

Pantheon Report

Generated at 2018-07-04 01:19:06 (UTC).

Data path: AWS California 1 Ethernet (*local*) → Stanford Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

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

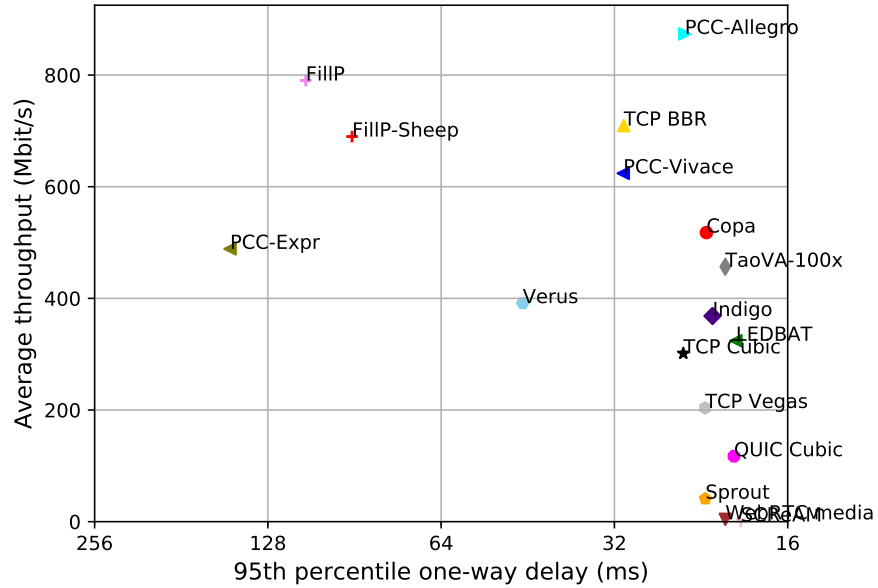
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

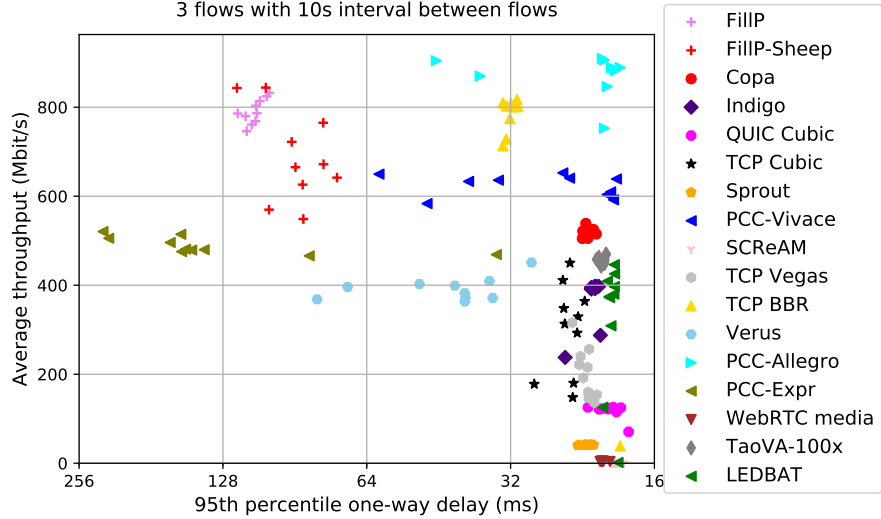
Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf90c077e64d
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS California 1 to Stanford, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 1 to Stanford, 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	409.67	317.10	266.25	31.94	24.47	20.24	6.83	10.49	12.48
Copa	10	282.54	243.15	220.61	21.50	21.83	23.88	0.03	0.03	0.06
TCP Cubic	10	151.17	149.42	152.57	22.94	25.82	24.39	0.10	0.12	0.23
FillP	10	468.80	340.40	285.96	107.32	117.23	110.12	11.77	18.49	20.70
FillP-Sheep	10	398.28	206.92	464.07	88.79	104.73	99.59	13.63	24.07	20.44
Indigo	10	181.59	190.25	186.60	22.26	21.40	20.98	1.74	1.96	1.88
LEDBAT	10	186.50	145.83	121.49	19.53	19.82	19.46	1.13	0.94	0.94
PCC-Allegro	10	754.46	141.18	76.91	24.69	19.59	19.38	0.58	0.46	0.53
PCC-Expr	10	296.52	258.55	61.06	128.43	145.38	19.94	0.61	2.44	0.26
QUIC Cubic	10	59.52	61.67	50.96	19.14	20.32	21.11	0.02	0.02	0.04
SCReAM	10	0.21	0.22	0.22	18.97	19.04	19.17	0.05	0.00	0.05
Sprout	10	20.52	20.65	20.58	21.98	22.36	22.23	0.06	0.03	0.08
TaoVA-100x	10	239.71	228.29	194.96	19.61	20.54	22.14	0.04	0.05	0.04
TCP Vegas	10	95.45	104.47	116.26	21.67	21.91	22.49	0.10	0.09	0.08
Verus	10	206.94	202.40	163.18	50.43	45.56	34.08	21.75	23.83	24.50
PCC-Vivace	10	379.91	309.86	114.88	34.08	22.70	34.31	0.45	1.07	2.49
WebRTC media	10	2.12	1.45	0.58	20.31	20.31	21.56	0.04	0.03	0.04

Run 1: Statistics of TCP BBR

Start at: 2018-07-03 18:34:12

End at: 2018-07-03 18:34:42

Local clock offset: 0.311 ms

Remote clock offset: 1.466 ms

Below is generated by plot.py at 2018-07-03 23:07:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.75 Mbit/s

95th percentile per-packet one-way delay: 18.865 ms

Loss rate: 17.15%

-- Flow 1:

Average throughput: 22.15 Mbit/s

95th percentile per-packet one-way delay: 18.911 ms

Loss rate: 17.02%

-- Flow 2:

Average throughput: 22.16 Mbit/s

95th percentile per-packet one-way delay: 17.375 ms

Loss rate: 17.37%

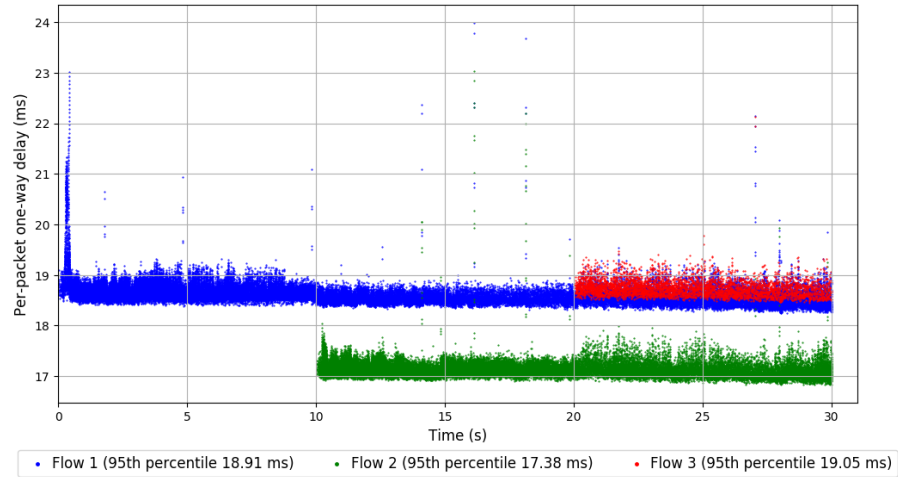
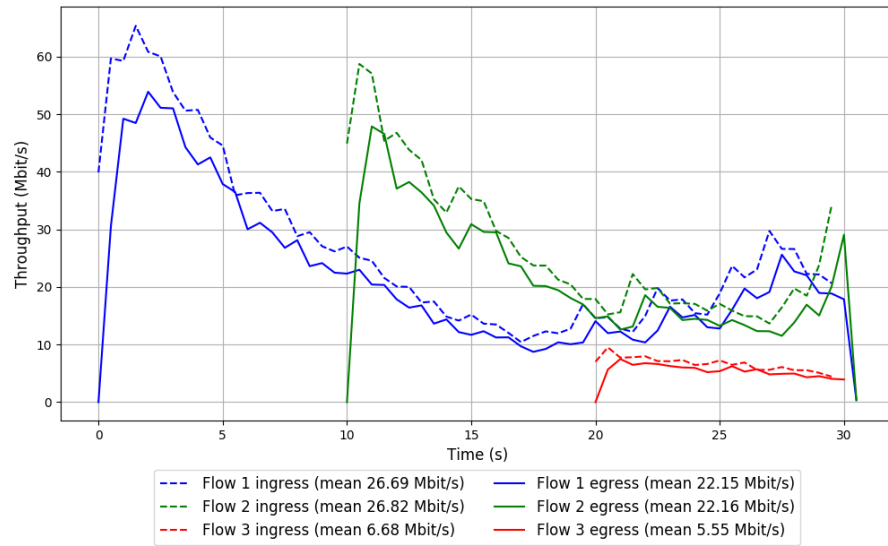
-- Flow 3:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 19.049 ms

Loss rate: 16.92%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-03 19:00:38

End at: 2018-07-03 19:01:08

Local clock offset: -3.272 ms

Remote clock offset: 4.493 ms

Below is generated by plot.py at 2018-07-03 23:16:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 809.74 Mbit/s

95th percentile per-packet one-way delay: 33.182 ms

Loss rate: 7.13%

-- Flow 1:

Average throughput: 481.32 Mbit/s

95th percentile per-packet one-way delay: 34.250 ms

Loss rate: 4.82%

-- Flow 2:

Average throughput: 351.65 Mbit/s

95th percentile per-packet one-way delay: 24.784 ms

Loss rate: 9.37%

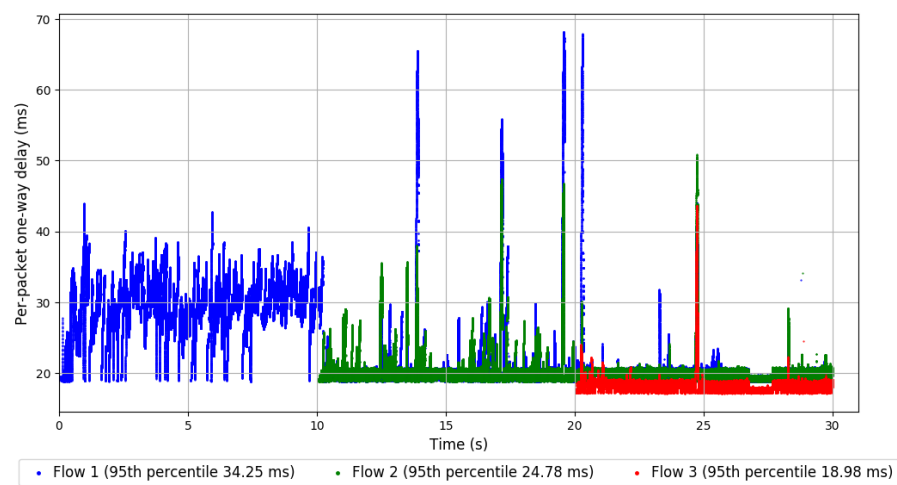
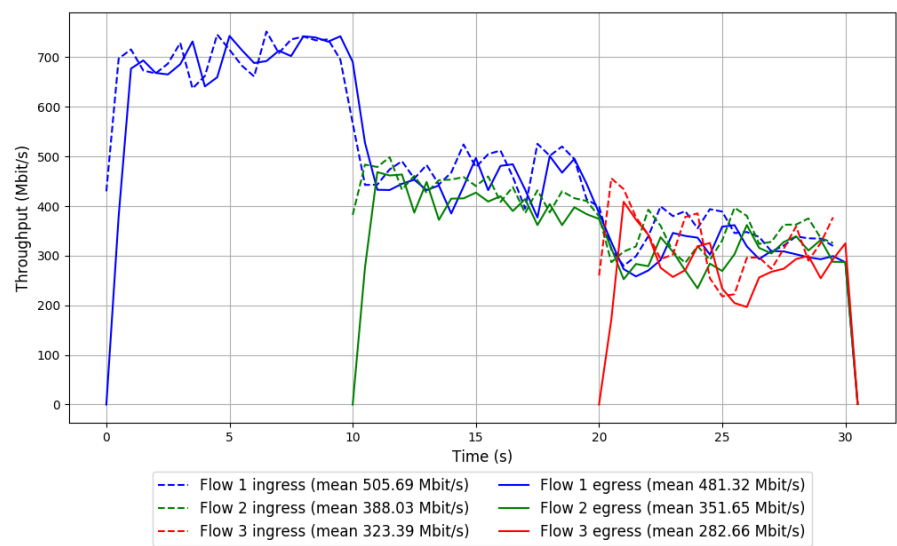
-- Flow 3:

Average throughput: 282.66 Mbit/s

95th percentile per-packet one-way delay: 18.977 ms

Loss rate: 12.60%

Run 2: Report of TCP BBR — Data Link

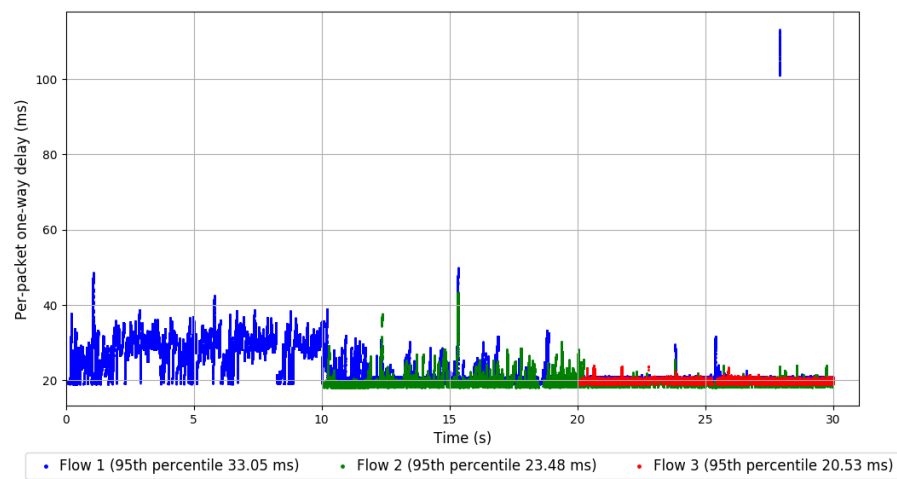
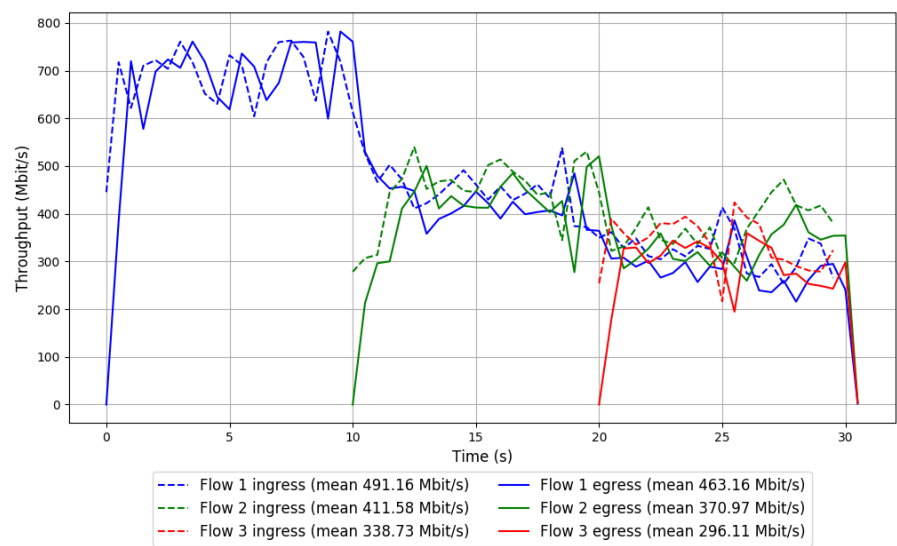


Run 3: Statistics of TCP BBR

Start at: 2018-07-03 19:28:01
End at: 2018-07-03 19:28:31
Local clock offset: -2.865 ms
Remote clock offset: -0.417 ms

Below is generated by plot.py at 2018-07-03 23:16:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 808.69 Mbit/s
95th percentile per-packet one-way delay: 31.929 ms
Loss rate: 7.88%
-- Flow 1:
Average throughput: 463.16 Mbit/s
95th percentile per-packet one-way delay: 33.046 ms
Loss rate: 5.70%
-- Flow 2:
Average throughput: 370.97 Mbit/s
95th percentile per-packet one-way delay: 23.476 ms
Loss rate: 9.86%
-- Flow 3:
Average throughput: 296.11 Mbit/s
95th percentile per-packet one-way delay: 20.531 ms
Loss rate: 12.57%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-03 19:55:11

End at: 2018-07-03 19:55:41

Local clock offset: 0.57 ms

Remote clock offset: 1.88 ms

Below is generated by plot.py at 2018-07-03 23:16:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 713.10 Mbit/s

95th percentile per-packet one-way delay: 33.195 ms

Loss rate: 7.97%

-- Flow 1:

Average throughput: 402.75 Mbit/s

95th percentile per-packet one-way delay: 34.322 ms

Loss rate: 5.85%

-- Flow 2:

Average throughput: 332.10 Mbit/s

95th percentile per-packet one-way delay: 28.727 ms

Loss rate: 9.60%

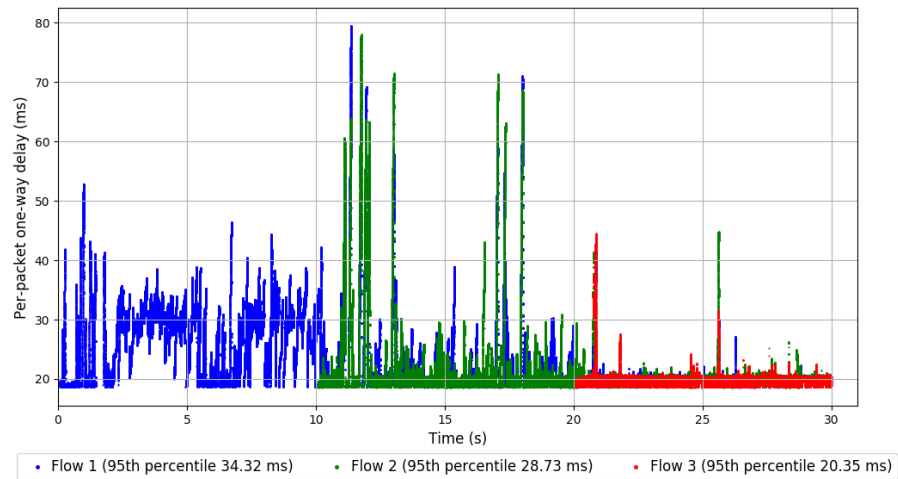
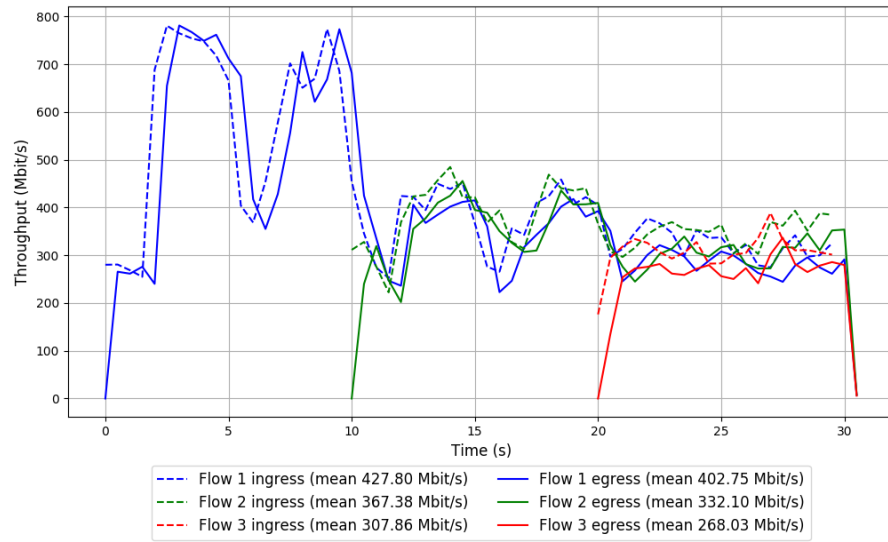
-- Flow 3:

Average throughput: 268.03 Mbit/s

95th percentile per-packet one-way delay: 20.350 ms

Loss rate: 12.93%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-03 20:22:20

End at: 2018-07-03 20:22:50

Local clock offset: 0.856 ms

Remote clock offset: 3.138 ms

Below is generated by plot.py at 2018-07-03 23:16:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 774.26 Mbit/s

95th percentile per-packet one-way delay: 32.103 ms

Loss rate: 8.04%

-- Flow 1:

Average throughput: 446.62 Mbit/s

95th percentile per-packet one-way delay: 33.561 ms

Loss rate: 6.25%

-- Flow 2:

Average throughput: 323.05 Mbit/s

95th percentile per-packet one-way delay: 24.655 ms

Loss rate: 10.36%

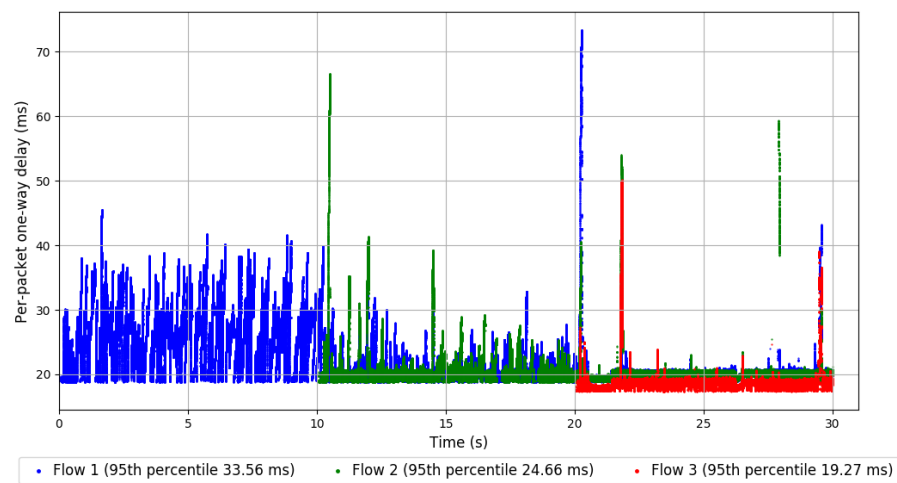
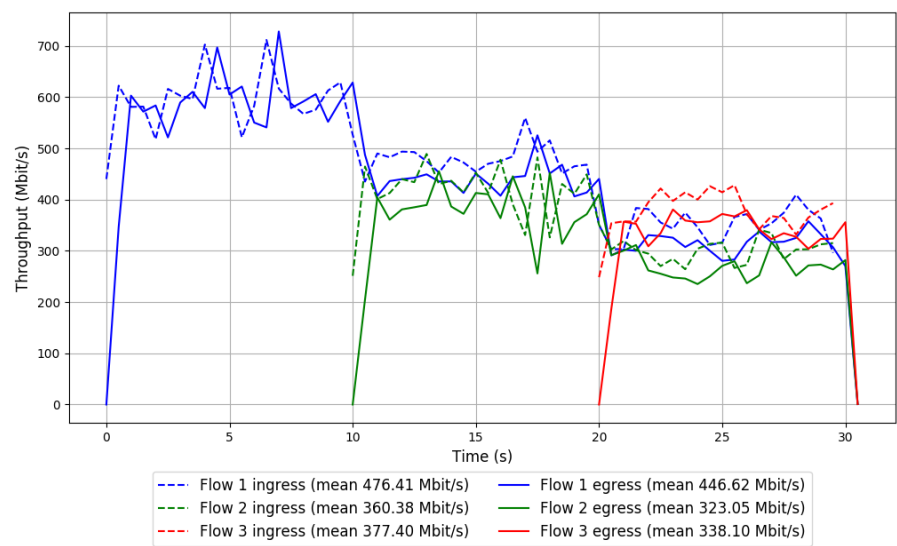
-- Flow 3:

Average throughput: 338.10 Mbit/s

95th percentile per-packet one-way delay: 19.274 ms

Loss rate: 10.41%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-03 20:49:30

End at: 2018-07-03 20:50:00

Local clock offset: -2.265 ms

Remote clock offset: 3.127 ms

Below is generated by plot.py at 2018-07-03 23:16:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 728.13 Mbit/s

95th percentile per-packet one-way delay: 32.677 ms

Loss rate: 7.43%

-- Flow 1:

Average throughput: 415.26 Mbit/s

95th percentile per-packet one-way delay: 34.059 ms

Loss rate: 5.35%

-- Flow 2:

Average throughput: 332.39 Mbit/s

95th percentile per-packet one-way delay: 24.537 ms

Loss rate: 9.52%

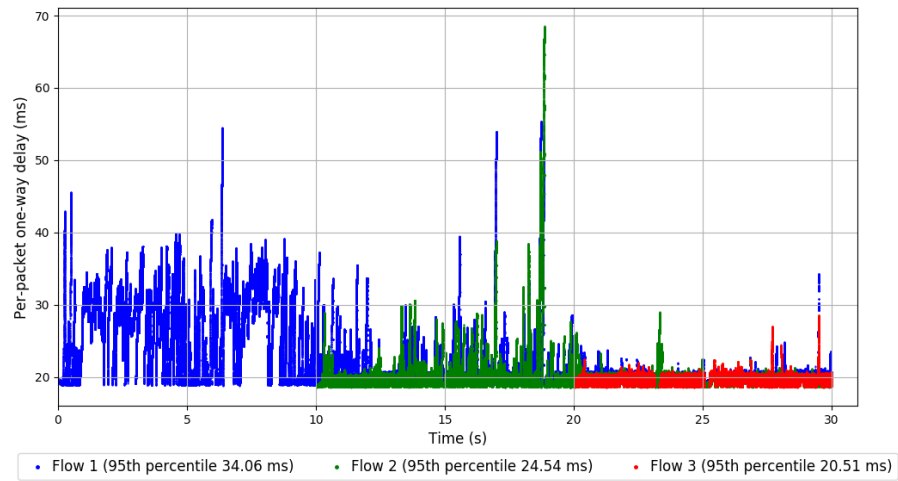
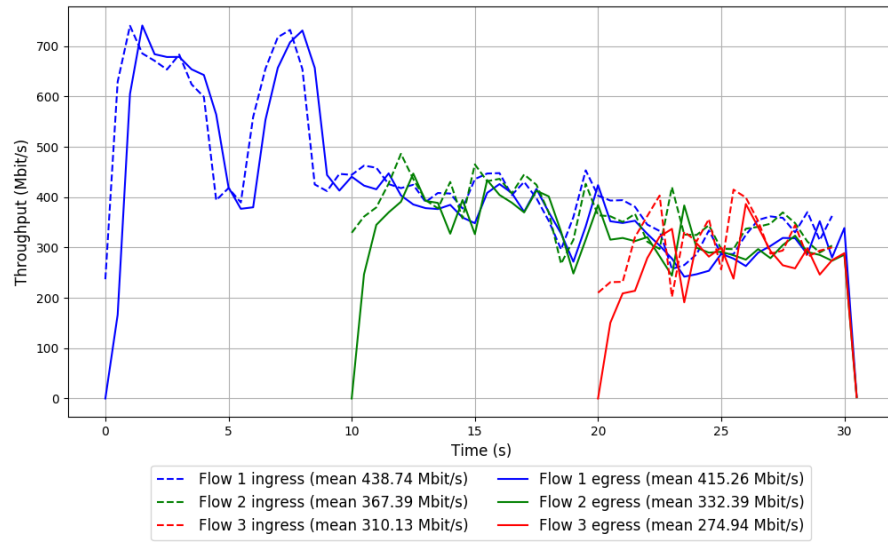
-- Flow 3:

Average throughput: 274.94 Mbit/s

95th percentile per-packet one-way delay: 20.509 ms

Loss rate: 11.34%

Run 6: Report of TCP BBR — Data Link

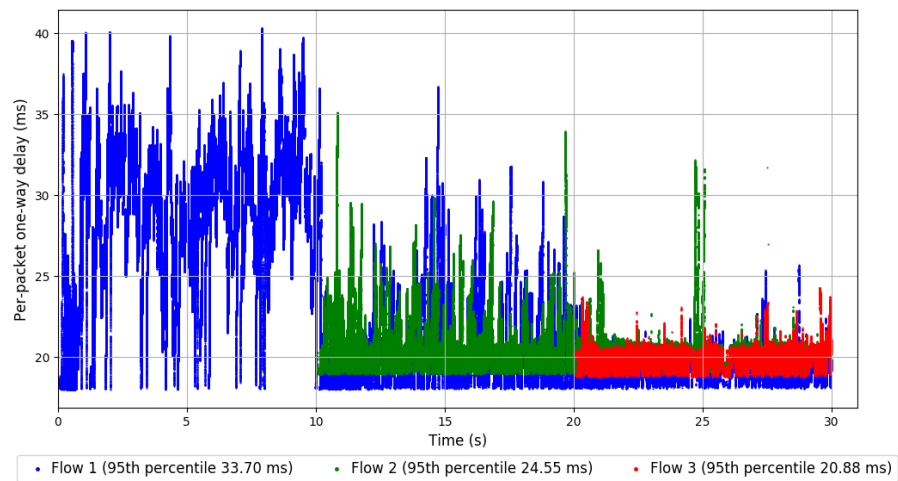
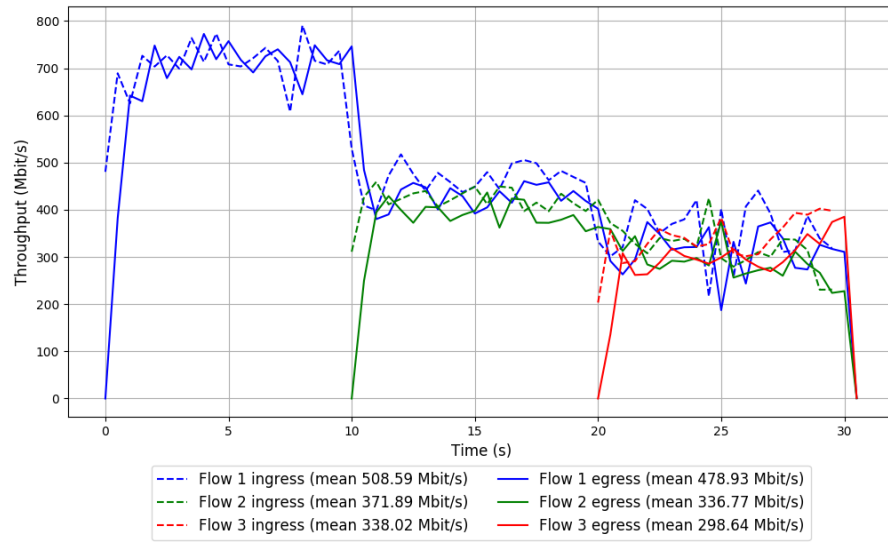


Run 7: Statistics of TCP BBR

Start at: 2018-07-03 21:16:29
End at: 2018-07-03 21:16:59
Local clock offset: -0.172 ms
Remote clock offset: -1.023 ms

Below is generated by plot.py at 2018-07-03 23:16:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 802.53 Mbit/s
95th percentile per-packet one-way delay: 32.677 ms
Loss rate: 7.61%
-- Flow 1:
Average throughput: 478.93 Mbit/s
95th percentile per-packet one-way delay: 33.703 ms
Loss rate: 5.83%
-- Flow 2:
Average throughput: 336.77 Mbit/s
95th percentile per-packet one-way delay: 24.547 ms
Loss rate: 9.44%
-- Flow 3:
Average throughput: 298.64 Mbit/s
95th percentile per-packet one-way delay: 20.882 ms
Loss rate: 11.65%

Run 7: Report of TCP BBR — Data Link

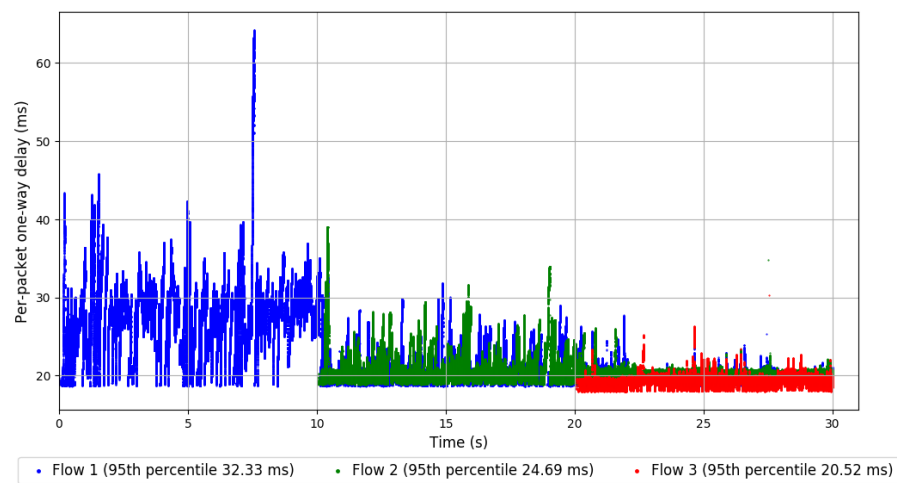
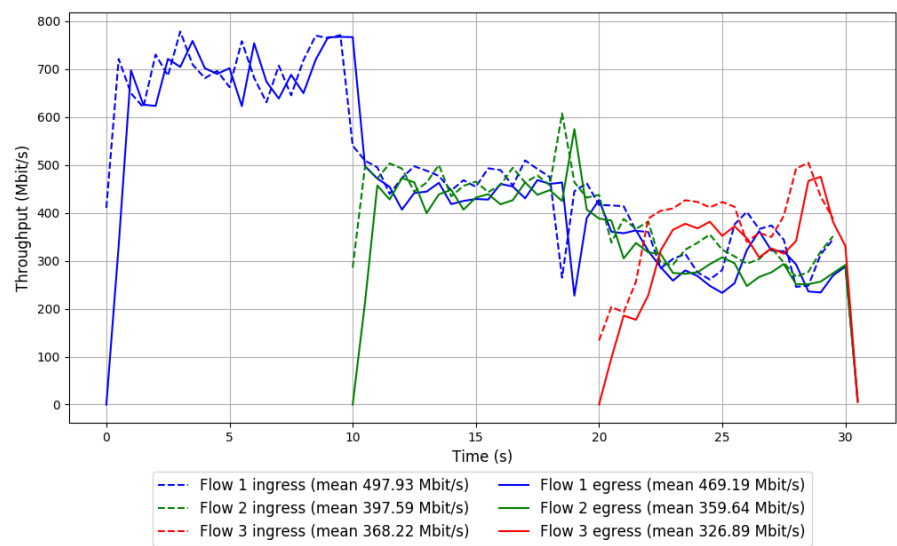


Run 8: Statistics of TCP BBR

Start at: 2018-07-03 21:43:33
End at: 2018-07-03 21:44:03
Local clock offset: 0.294 ms
Remote clock offset: -0.651 ms

Below is generated by plot.py at 2018-07-03 23:16:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 817.49 Mbit/s
95th percentile per-packet one-way delay: 31.021 ms
Loss rate: 7.65%
-- Flow 1:
Average throughput: 469.19 Mbit/s
95th percentile per-packet one-way delay: 32.328 ms
Loss rate: 5.77%
-- Flow 2:
Average throughput: 359.64 Mbit/s
95th percentile per-packet one-way delay: 24.693 ms
Loss rate: 9.54%
-- Flow 3:
Average throughput: 326.89 Mbit/s
95th percentile per-packet one-way delay: 20.523 ms
Loss rate: 11.22%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-03 22:10:54

End at: 2018-07-03 22:11:24

Local clock offset: 0.237 ms

Remote clock offset: 2.228 ms

Below is generated by plot.py at 2018-07-03 23:17:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 801.20 Mbit/s

95th percentile per-packet one-way delay: 30.906 ms

Loss rate: 8.18%

-- Flow 1:

Average throughput: 452.32 Mbit/s

95th percentile per-packet one-way delay: 32.249 ms

Loss rate: 6.03%

-- Flow 2:

Average throughput: 376.42 Mbit/s

95th percentile per-packet one-way delay: 25.432 ms

Loss rate: 10.21%

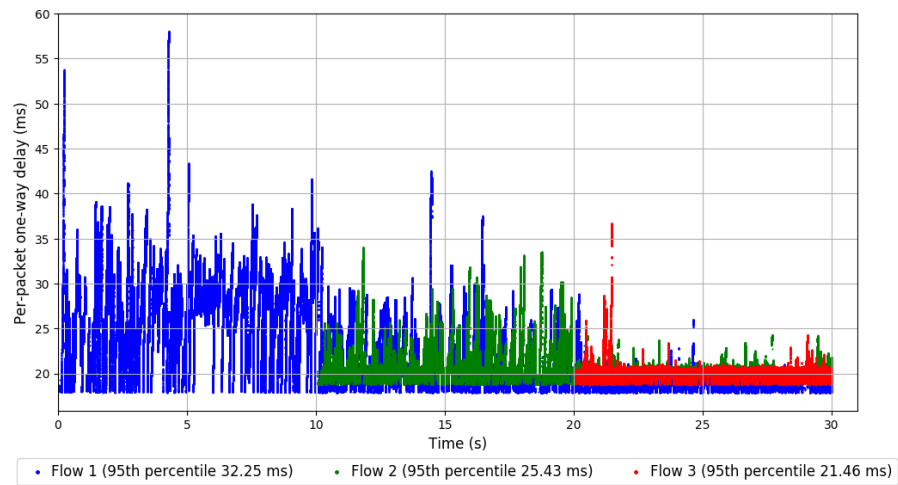
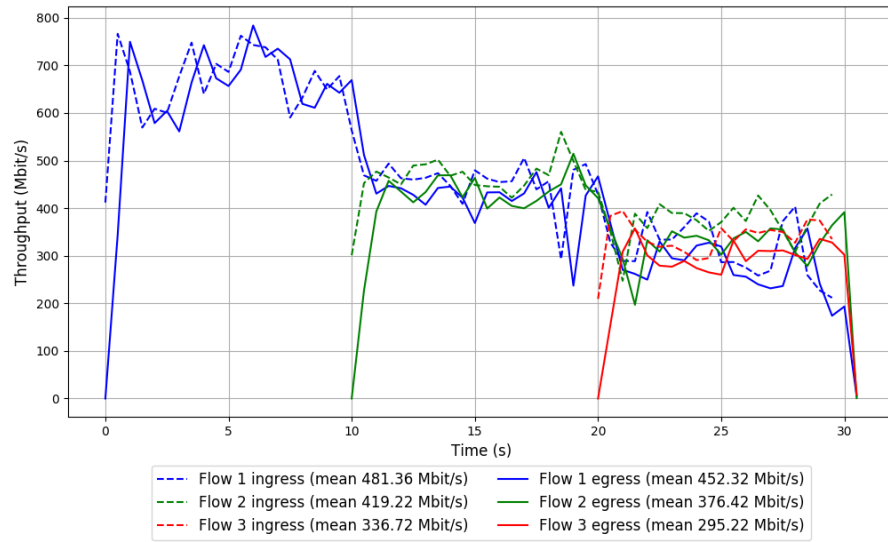
-- Flow 3:

Average throughput: 295.22 Mbit/s

95th percentile per-packet one-way delay: 21.461 ms

Loss rate: 12.33%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-03 22:38:02

End at: 2018-07-03 22:38:32

Local clock offset: 0.262 ms

Remote clock offset: 1.877 ms

Below is generated by plot.py at 2018-07-03 23:25:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 800.60 Mbit/s

95th percentile per-packet one-way delay: 31.679 ms

Loss rate: 7.77%

-- Flow 1:

Average throughput: 464.98 Mbit/s

95th percentile per-packet one-way delay: 32.994 ms

Loss rate: 5.66%

-- Flow 2:

Average throughput: 365.83 Mbit/s

95th percentile per-packet one-way delay: 26.461 ms

Loss rate: 9.63%

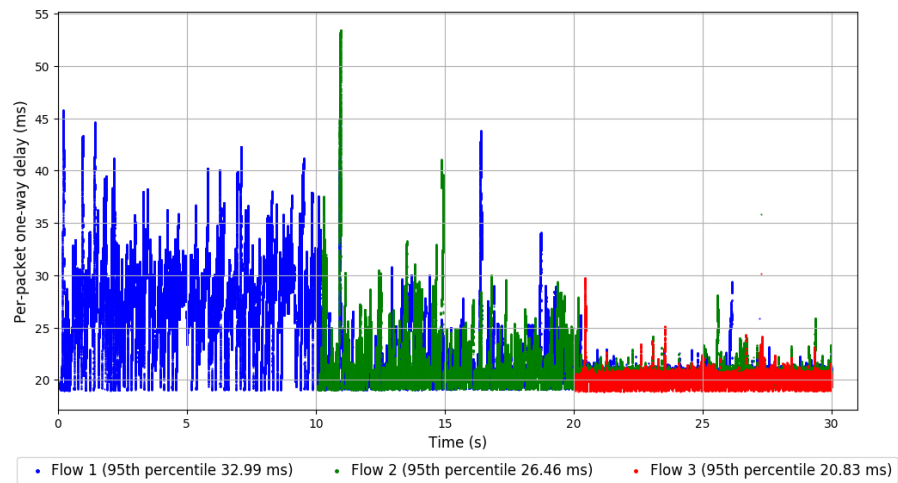
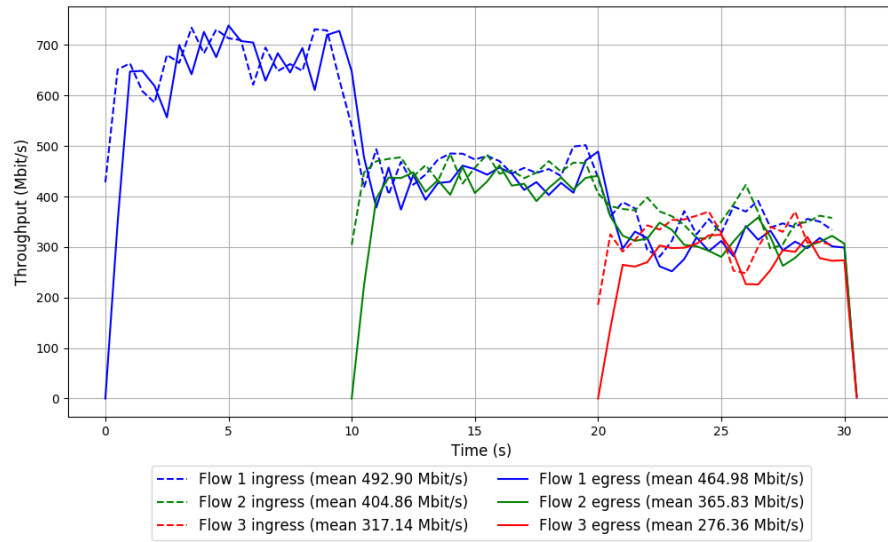
-- Flow 3:

Average throughput: 276.36 Mbit/s

95th percentile per-packet one-way delay: 20.830 ms

Loss rate: 12.86%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-03 18:27:56

End at: 2018-07-03 18:28:26

Local clock offset: 0.45 ms

Remote clock offset: 1.103 ms

Below is generated by plot.py at 2018-07-03 23:27:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 538.87 Mbit/s

95th percentile per-packet one-way delay: 22.270 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 296.95 Mbit/s

95th percentile per-packet one-way delay: 21.565 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 259.46 Mbit/s

95th percentile per-packet one-way delay: 22.673 ms

Loss rate: 0.05%

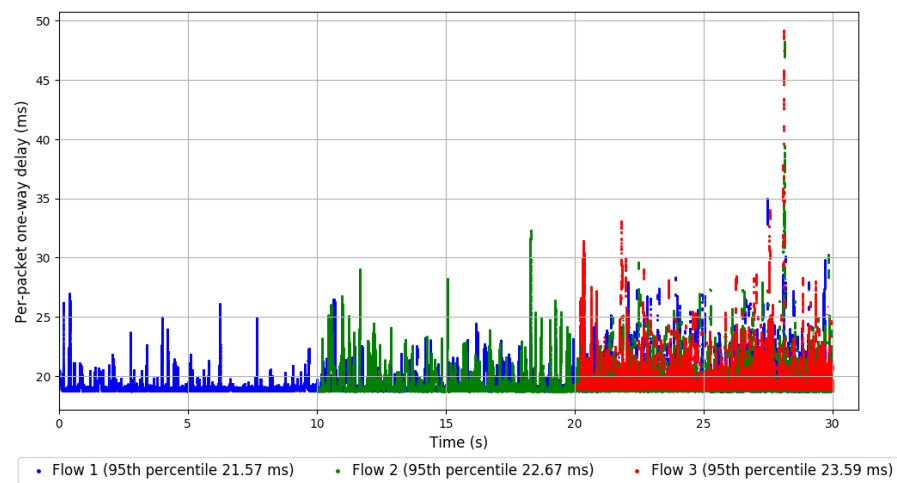
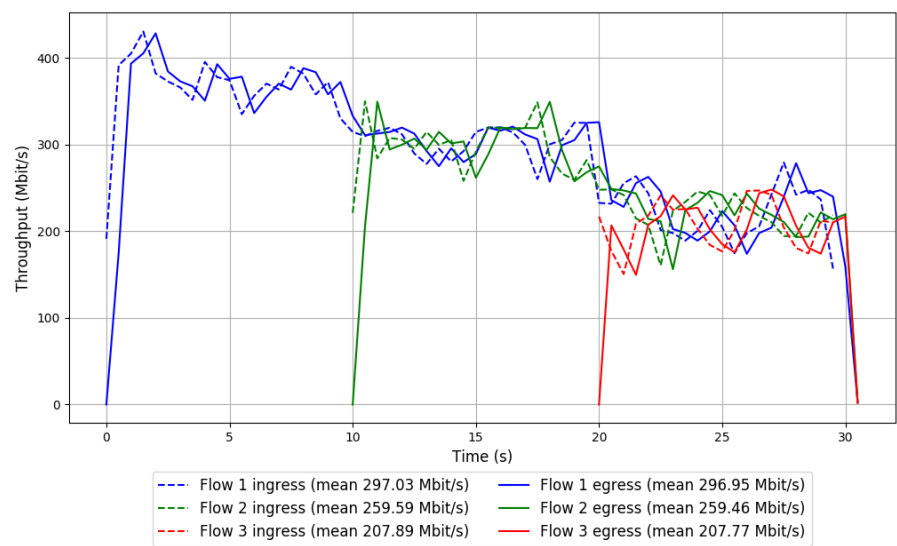
-- Flow 3:

Average throughput: 207.77 Mbit/s

95th percentile per-packet one-way delay: 23.593 ms

Loss rate: 0.10%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-03 18:54:13

End at: 2018-07-03 18:54:43

Local clock offset: -3.012 ms

Remote clock offset: 3.967 ms

Below is generated by plot.py at 2018-07-03 23:27:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 525.37 Mbit/s

95th percentile per-packet one-way delay: 21.459 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 289.55 Mbit/s

95th percentile per-packet one-way delay: 20.423 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 234.45 Mbit/s

95th percentile per-packet one-way delay: 21.966 ms

Loss rate: 0.00%

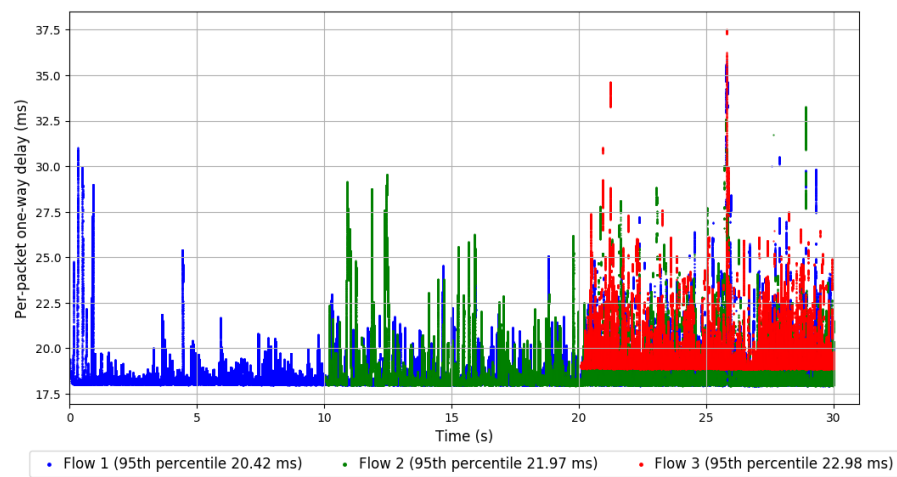
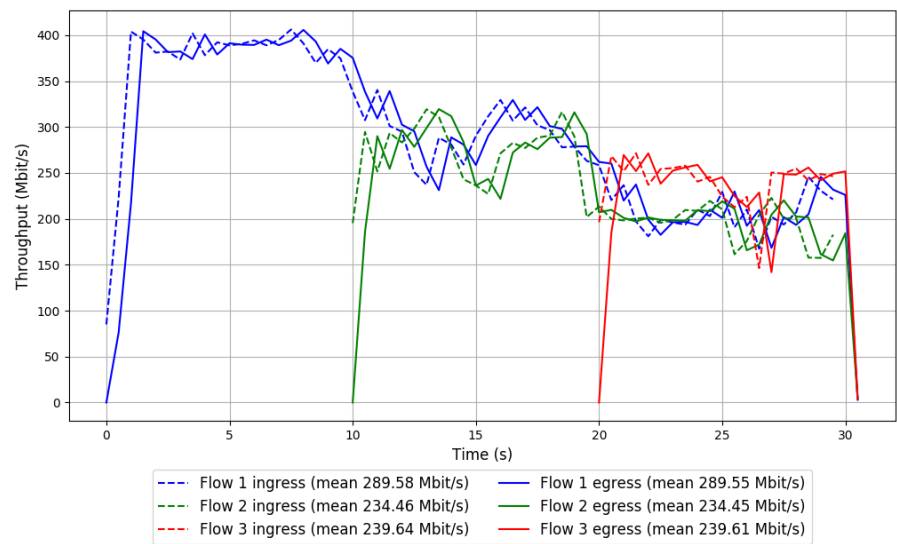
-- Flow 3:

Average throughput: 239.61 Mbit/s

95th percentile per-packet one-way delay: 22.983 ms

Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-03 19:21:44

End at: 2018-07-03 19:22:14

Local clock offset: -2.844 ms

Remote clock offset: 0.476 ms

Below is generated by plot.py at 2018-07-03 23:27:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 523.81 Mbit/s

95th percentile per-packet one-way delay: 22.394 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 287.13 Mbit/s

95th percentile per-packet one-way delay: 21.951 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 235.04 Mbit/s

95th percentile per-packet one-way delay: 21.129 ms

Loss rate: 0.01%

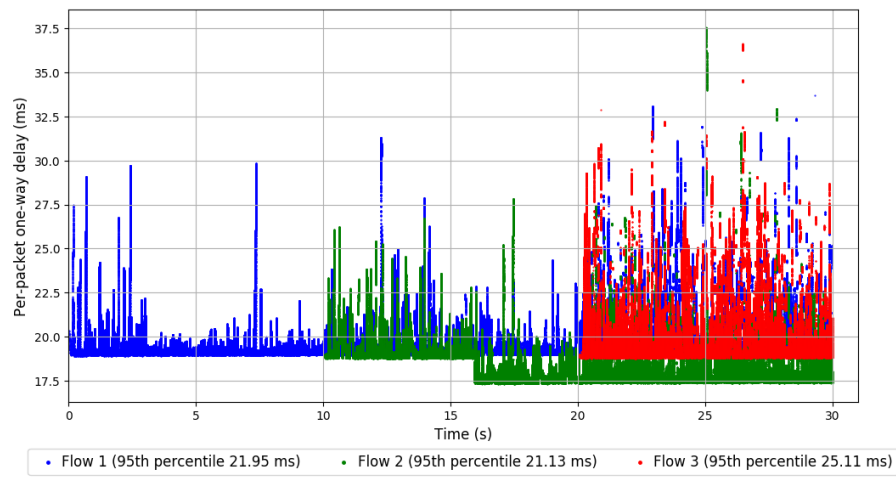
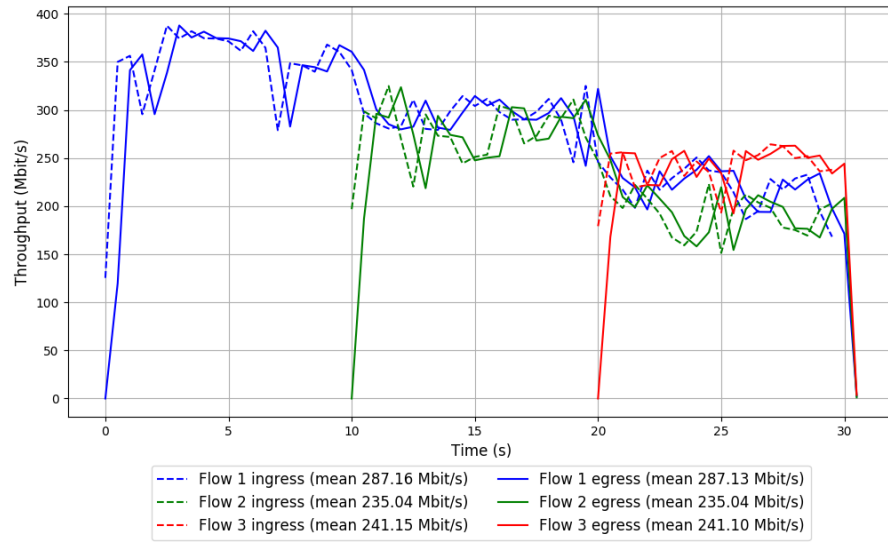
-- Flow 3:

Average throughput: 241.10 Mbit/s

95th percentile per-packet one-way delay: 25.108 ms

Loss rate: 0.03%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-03 19:48:47

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

Local clock offset: 0.142 ms

Remote clock offset: 0.613 ms

Below is generated by plot.py at 2018-07-03 23:27:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 507.65 Mbit/s

95th percentile per-packet one-way delay: 22.439 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 269.11 Mbit/s

95th percentile per-packet one-way delay: 21.597 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 248.46 Mbit/s

95th percentile per-packet one-way delay: 21.910 ms

Loss rate: 0.11%

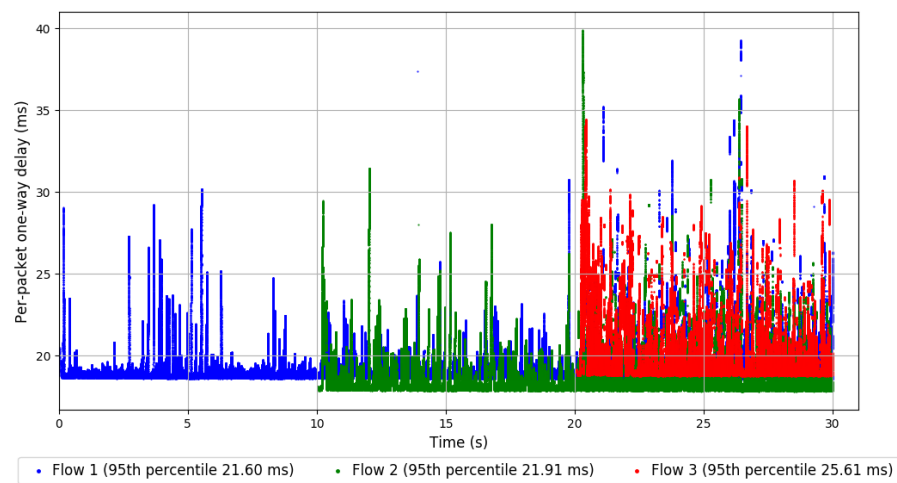
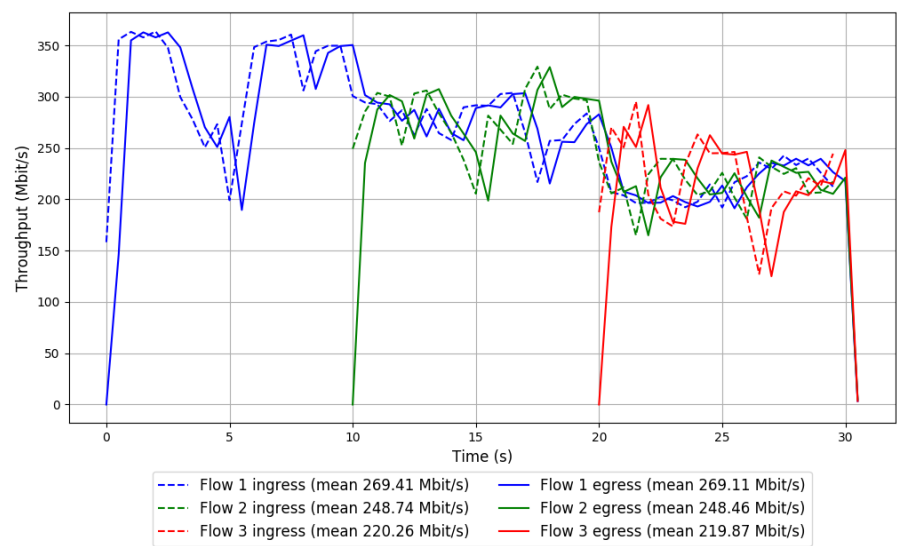
-- Flow 3:

Average throughput: 219.87 Mbit/s

95th percentile per-packet one-way delay: 25.611 ms

Loss rate: 0.18%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-03 20:15:58

End at: 2018-07-03 20:16:28

Local clock offset: 0.847 ms

Remote clock offset: 3.287 ms

Below is generated by plot.py at 2018-07-03 23:27:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 515.16 Mbit/s

95th percentile per-packet one-way delay: 21.176 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 279.27 Mbit/s

95th percentile per-packet one-way delay: 19.530 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 241.22 Mbit/s

95th percentile per-packet one-way delay: 21.381 ms

Loss rate: 0.03%

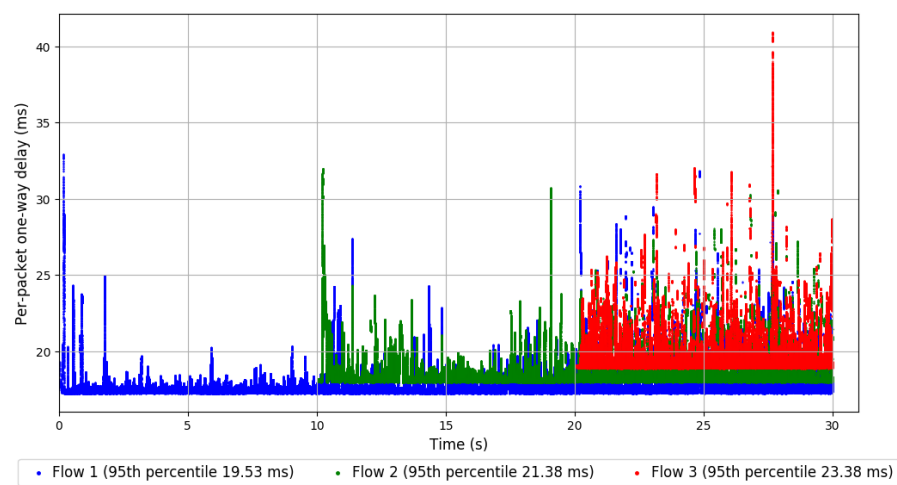
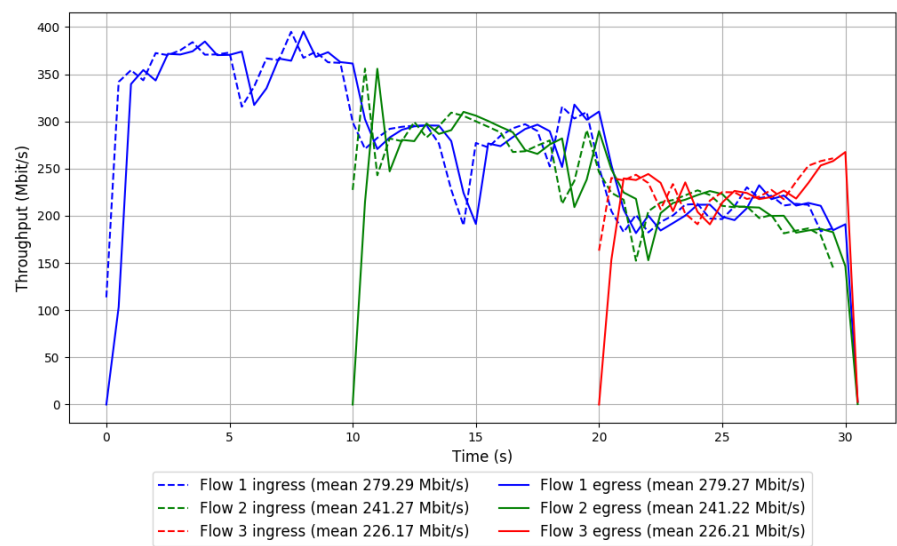
-- Flow 3:

Average throughput: 226.21 Mbit/s

95th percentile per-packet one-way delay: 23.379 ms

Loss rate: 0.02%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-03 20:43:07

End at: 2018-07-03 20:43:37

Local clock offset: -1.595 ms

Remote clock offset: 3.058 ms

Below is generated by plot.py at 2018-07-03 23:28:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 522.42 Mbit/s

95th percentile per-packet one-way delay: 22.167 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 289.00 Mbit/s

95th percentile per-packet one-way delay: 22.268 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 234.85 Mbit/s

95th percentile per-packet one-way delay: 21.062 ms

Loss rate: 0.04%

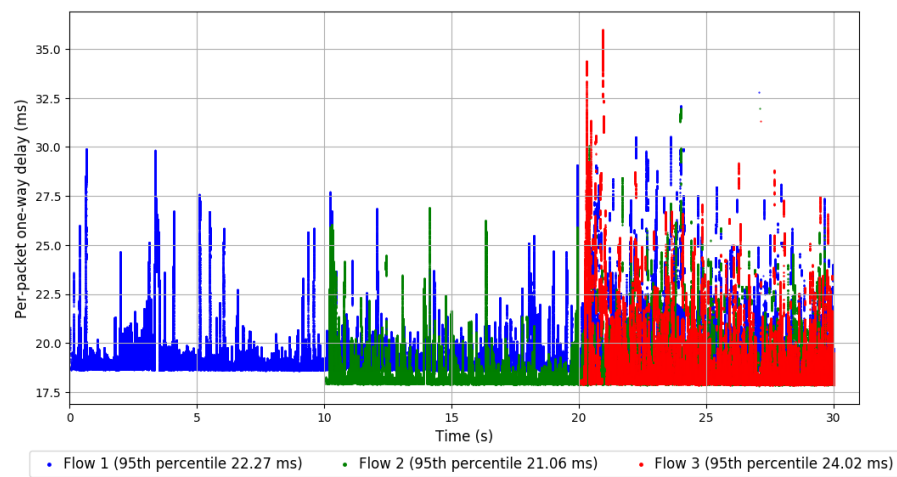
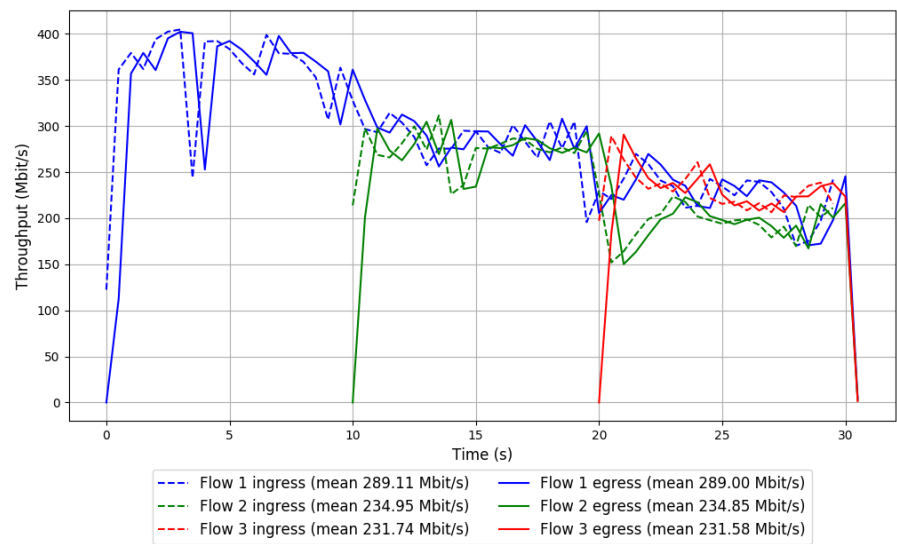
-- Flow 3:

Average throughput: 231.58 Mbit/s

95th percentile per-packet one-way delay: 24.017 ms

Loss rate: 0.07%

Run 6: Report of Copa — Data Link

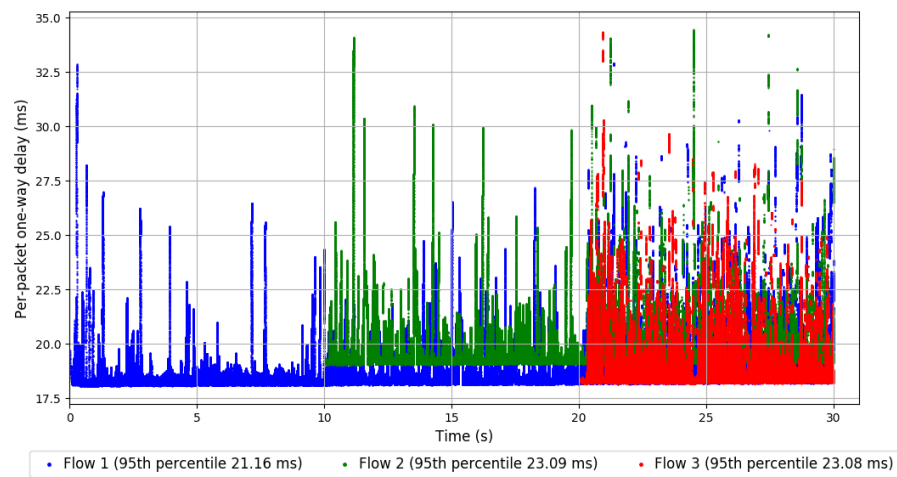
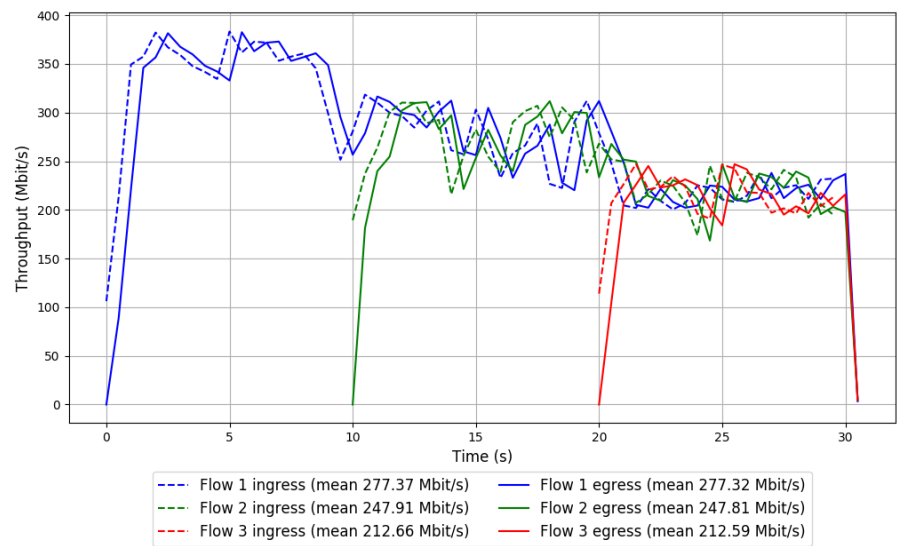


Run 7: Statistics of Copa

Start at: 2018-07-03 21:10:07
End at: 2018-07-03 21:10:37
Local clock offset: -1.102 ms
Remote clock offset: -0.569 ms

```
# Below is generated by plot.py at 2018-07-03 23:28:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 513.03 Mbit/s
95th percentile per-packet one-way delay: 22.250 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 277.32 Mbit/s
95th percentile per-packet one-way delay: 21.159 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 247.81 Mbit/s
95th percentile per-packet one-way delay: 23.089 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 212.59 Mbit/s
95th percentile per-packet one-way delay: 23.077 ms
Loss rate: 0.03%
```


Run 7: Report of Copa — Data Link

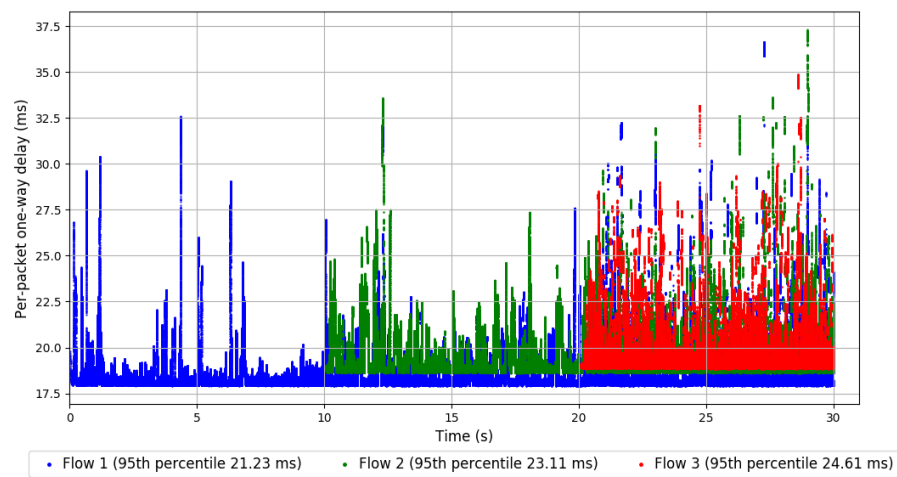
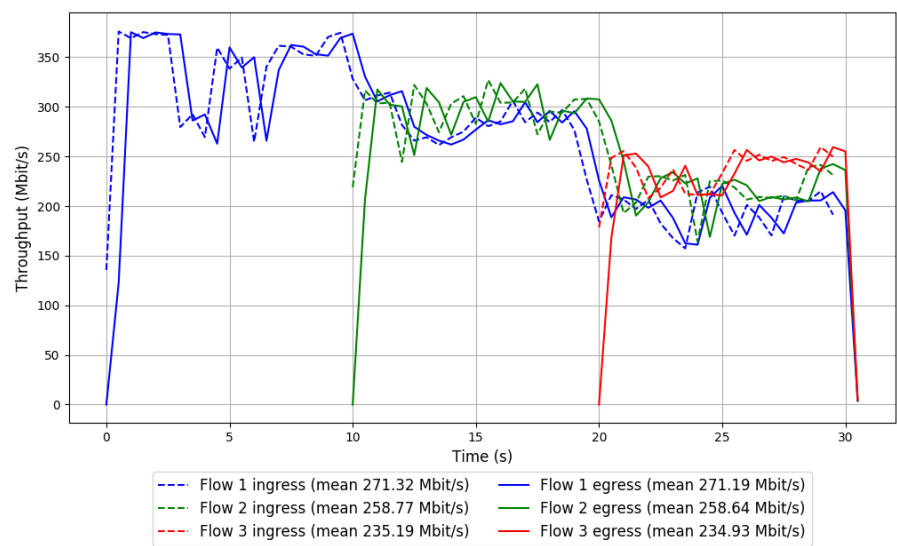


Run 8: Statistics of Copa

Start at: 2018-07-03 21:37:11
End at: 2018-07-03 21:37:41
Local clock offset: 0.53 ms
Remote clock offset: -0.737 ms

Below is generated by plot.py at 2018-07-03 23:37:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 521.63 Mbit/s
95th percentile per-packet one-way delay: 22.598 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 271.19 Mbit/s
95th percentile per-packet one-way delay: 21.233 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 258.64 Mbit/s
95th percentile per-packet one-way delay: 23.105 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 234.93 Mbit/s
95th percentile per-packet one-way delay: 24.610 ms
Loss rate: 0.11%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-03 22:04:33

End at: 2018-07-03 22:05:03

Local clock offset: 0.006 ms

Remote clock offset: 0.933 ms

Below is generated by plot.py at 2018-07-03 23:38:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 505.36 Mbit/s

95th percentile per-packet one-way delay: 22.056 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 274.08 Mbit/s

95th percentile per-packet one-way delay: 22.438 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 244.87 Mbit/s

95th percentile per-packet one-way delay: 20.585 ms

Loss rate: 0.01%

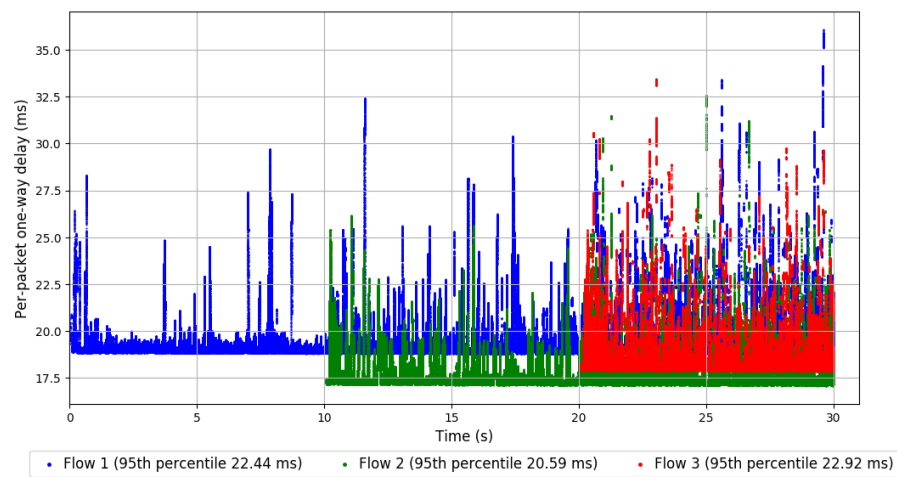
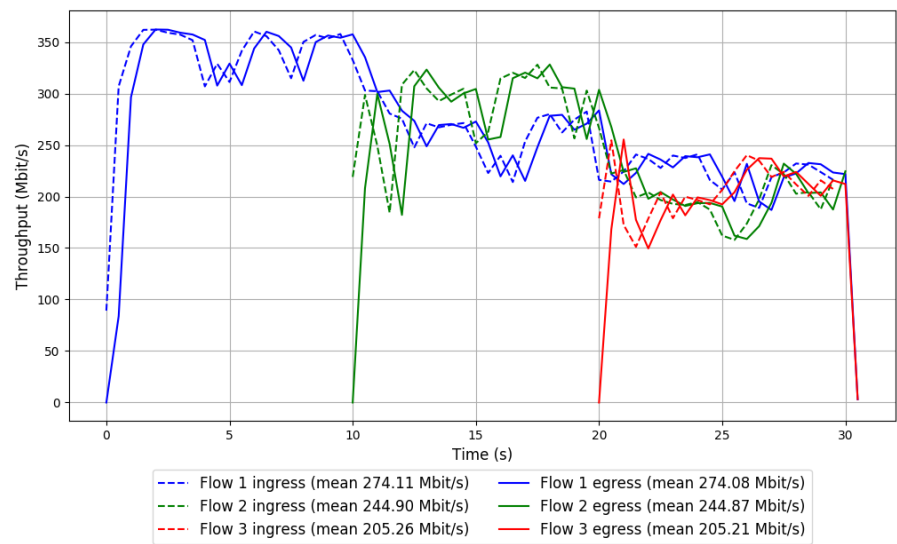
-- Flow 3:

Average throughput: 205.21 Mbit/s

95th percentile per-packet one-way delay: 22.919 ms

Loss rate: 0.01%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-03 22:31:40

End at: 2018-07-03 22:32:10

Local clock offset: 0.471 ms

Remote clock offset: 3.85 ms

Below is generated by plot.py at 2018-07-03 23:38:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 505.04 Mbit/s

95th percentile per-packet one-way delay: 22.646 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 291.83 Mbit/s

95th percentile per-packet one-way delay: 22.798 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 226.68 Mbit/s

95th percentile per-packet one-way delay: 21.434 ms

Loss rate: 0.01%

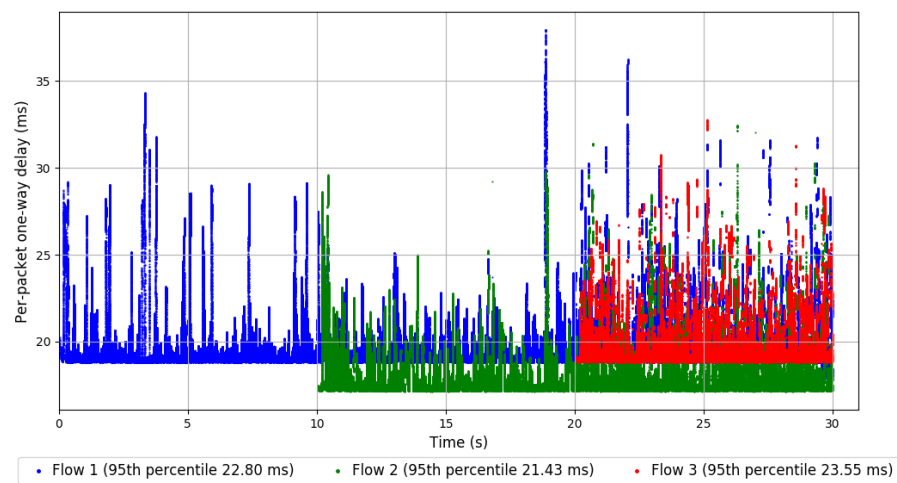
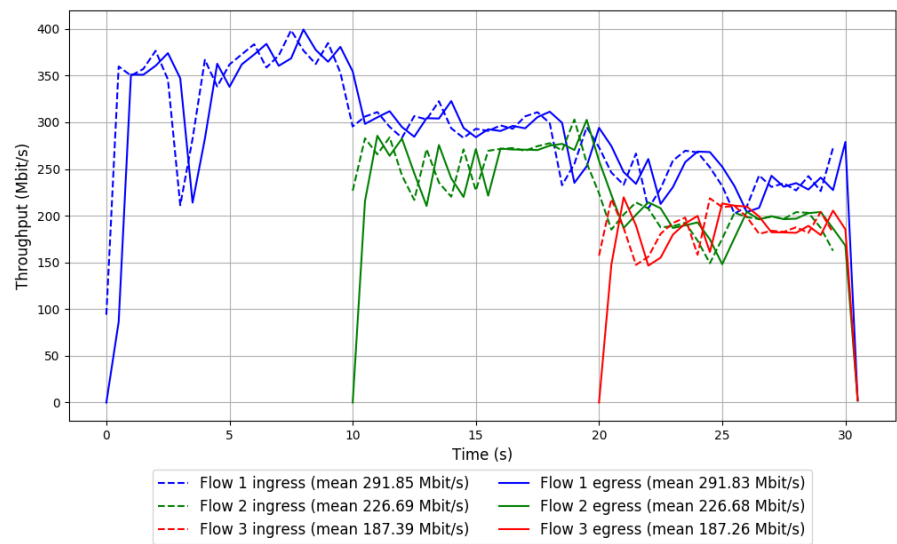
-- Flow 3:

Average throughput: 187.26 Mbit/s

95th percentile per-packet one-way delay: 23.547 ms

Loss rate: 0.05%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-03 18:36:50

End at: 2018-07-03 18:37:20

Local clock offset: -0.536 ms

Remote clock offset: 1.967 ms

Below is generated by plot.py at 2018-07-03 23:38:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.00 Mbit/s

95th percentile per-packet one-way delay: 24.639 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 168.79 Mbit/s

95th percentile per-packet one-way delay: 23.243 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 133.82 Mbit/s

95th percentile per-packet one-way delay: 26.547 ms

Loss rate: 0.17%

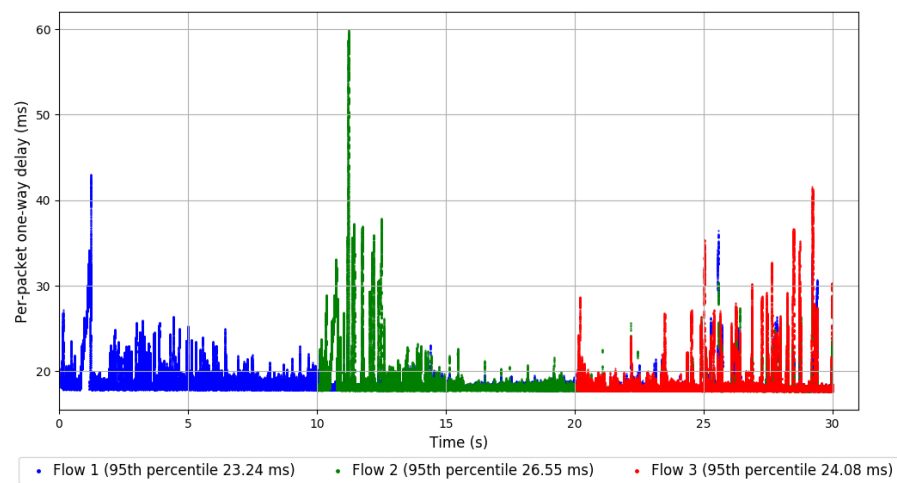
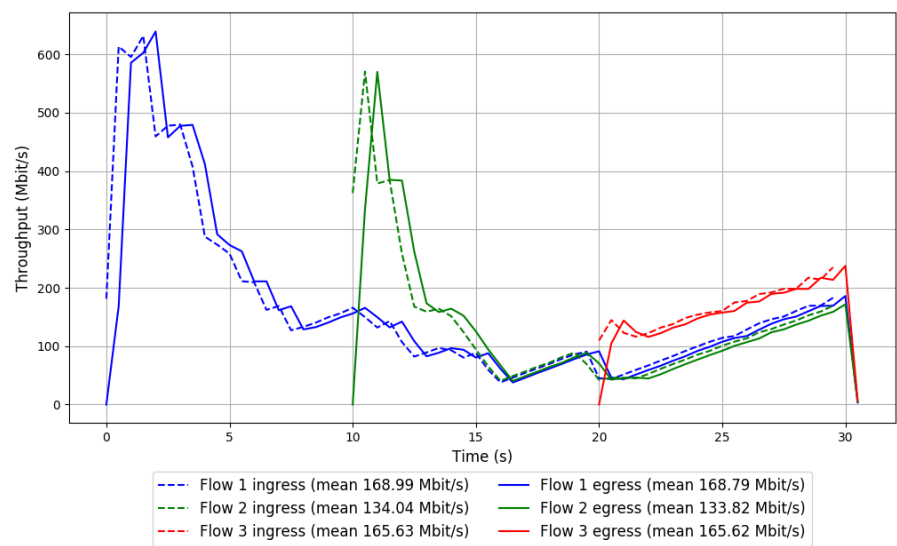
-- Flow 3:

Average throughput: 165.62 Mbit/s

95th percentile per-packet one-way delay: 24.080 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-03 19:04:13

End at: 2018-07-03 19:04:43

Local clock offset: -3.354 ms

Remote clock offset: 4.808 ms

Below is generated by plot.py at 2018-07-03 23:38:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 411.06 Mbit/s

95th percentile per-packet one-way delay: 24.871 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 191.40 Mbit/s

95th percentile per-packet one-way delay: 23.588 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 255.32 Mbit/s

95th percentile per-packet one-way delay: 26.651 ms

Loss rate: 0.02%

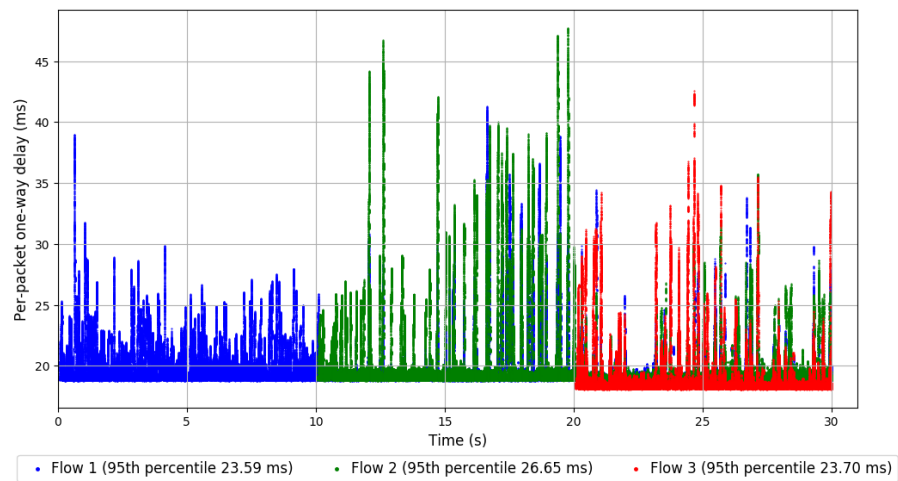
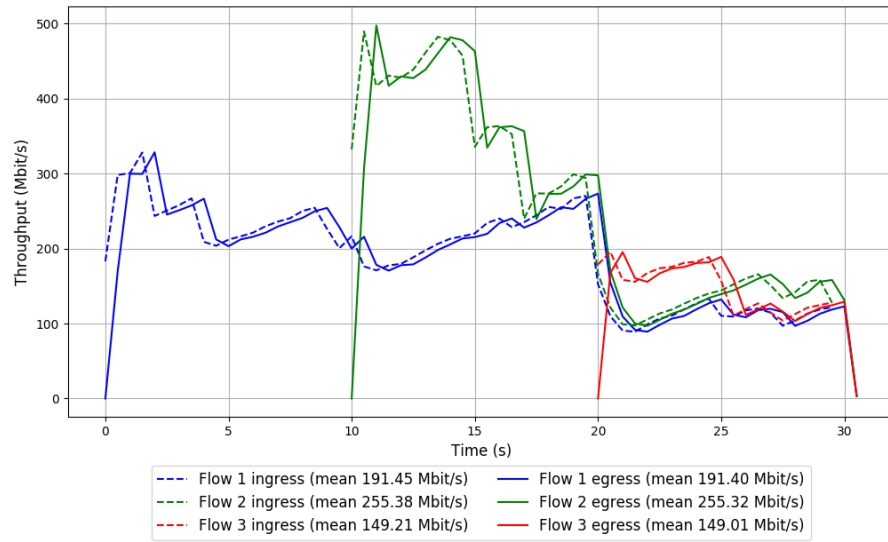
-- Flow 3:

Average throughput: 149.01 Mbit/s

95th percentile per-packet one-way delay: 23.705 ms

Loss rate: 0.13%

Run 2: Report of TCP Cubic — Data Link

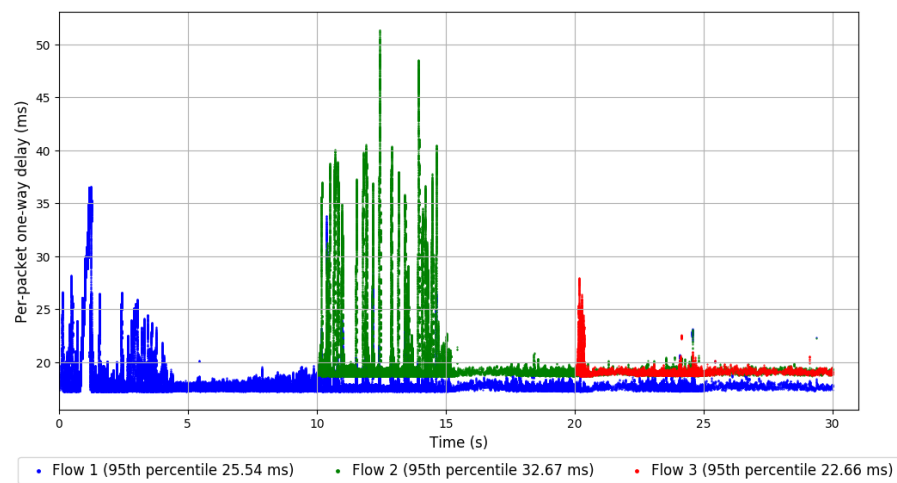
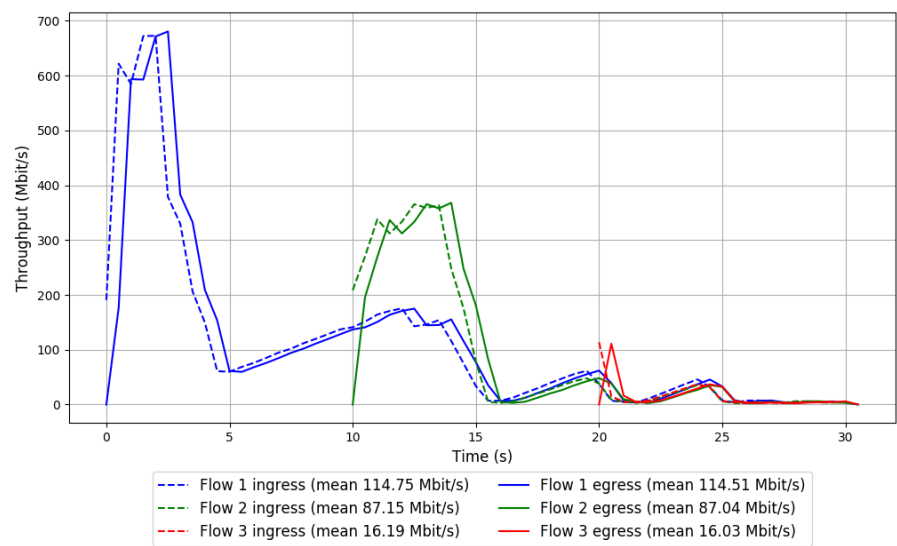


Run 3: Statistics of TCP Cubic

Start at: 2018-07-03 19:31:30
End at: 2018-07-03 19:32:00
Local clock offset: -2.814 ms
Remote clock offset: -0.709 ms

Below is generated by plot.py at 2018-07-03 23:38:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 177.82 Mbit/s
95th percentile per-packet one-way delay: 28.547 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 114.51 Mbit/s
95th percentile per-packet one-way delay: 25.535 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 87.04 Mbit/s
95th percentile per-packet one-way delay: 32.671 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 16.03 Mbit/s
95th percentile per-packet one-way delay: 22.662 ms
Loss rate: 1.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-03 19:58:39

End at: 2018-07-03 19:59:09

Local clock offset: 0.648 ms

Remote clock offset: 2.348 ms

Below is generated by plot.py at 2018-07-03 23:38:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.85 Mbit/s

95th percentile per-packet one-way delay: 23.720 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 59.04 Mbit/s

95th percentile per-packet one-way delay: 23.898 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 63.81 Mbit/s

95th percentile per-packet one-way delay: 22.475 ms

Loss rate: 0.20%

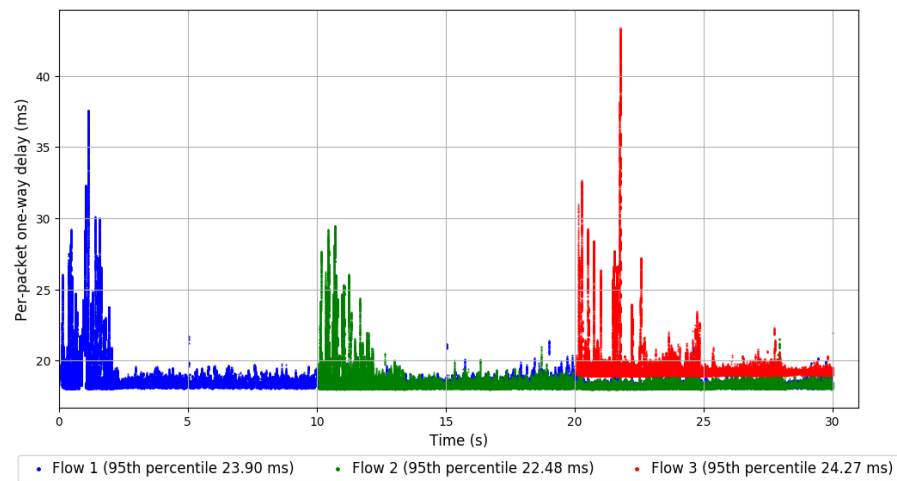
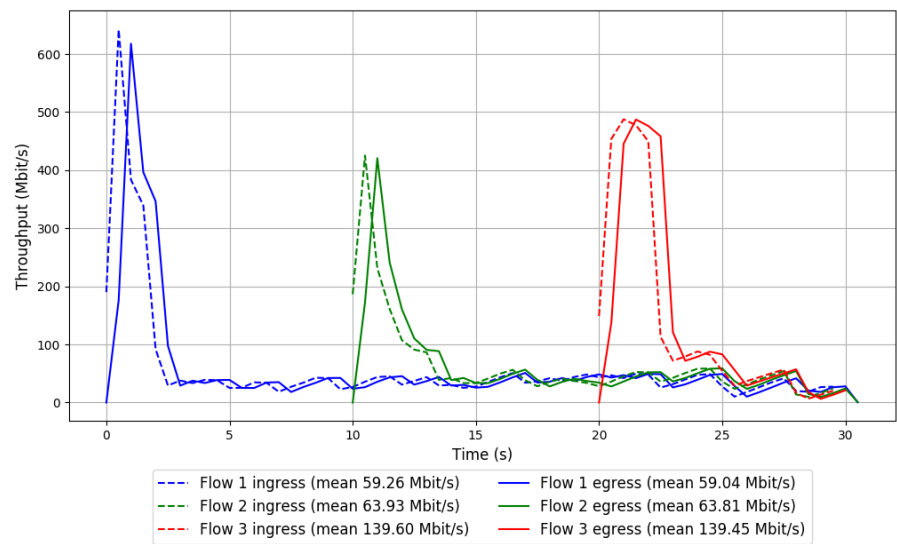
-- Flow 3:

Average throughput: 139.45 Mbit/s

95th percentile per-packet one-way delay: 24.265 ms

Loss rate: 0.11%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-03 20:25:48

End at: 2018-07-03 20:26:18

Local clock offset: 1.002 ms

Remote clock offset: 3.106 ms

Below is generated by plot.py at 2018-07-03 23:38:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.75 Mbit/s

95th percentile per-packet one-way delay: 23.217 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 134.00 Mbit/s

95th percentile per-packet one-way delay: 22.494 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 154.46 Mbit/s

95th percentile per-packet one-way delay: 23.033 ms

Loss rate: 0.14%

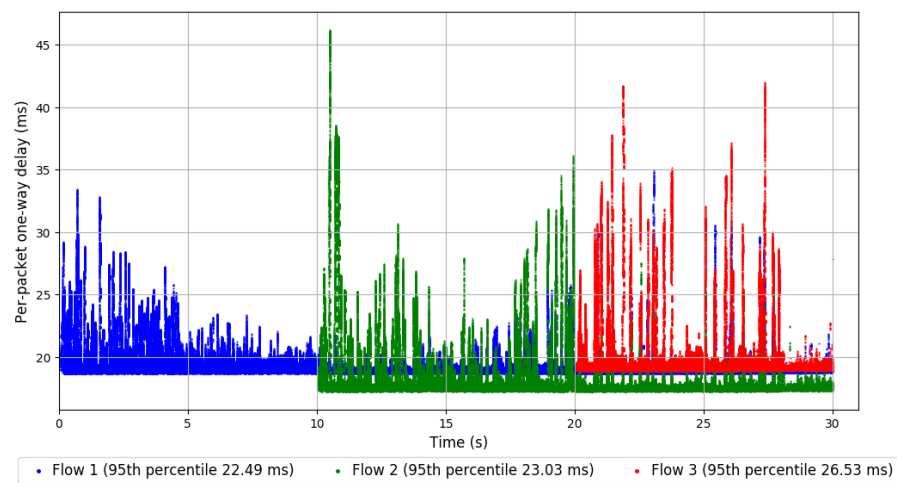
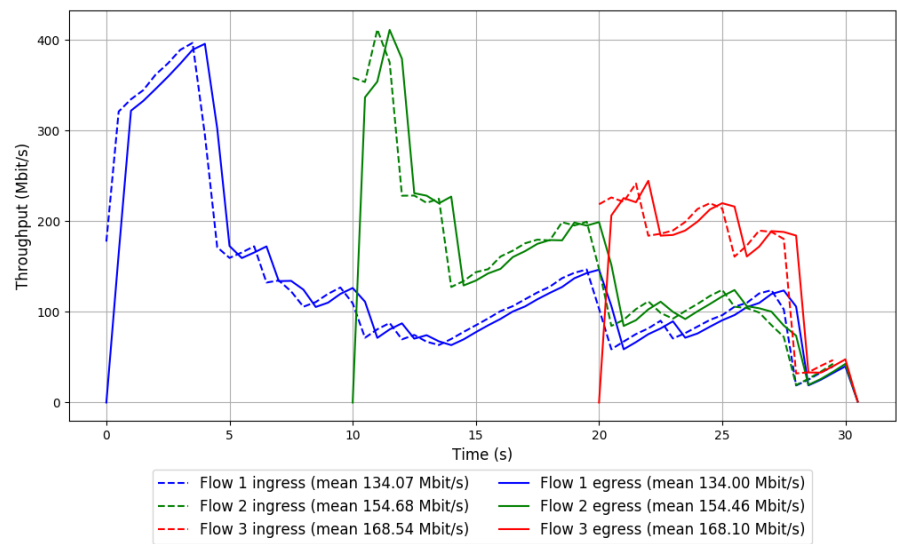
-- Flow 3:

Average throughput: 168.10 Mbit/s

95th percentile per-packet one-way delay: 26.533 ms

Loss rate: 0.17%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-03 20:52:46

End at: 2018-07-03 20:53:16

Local clock offset: -2.529 ms

Remote clock offset: 2.646 ms

Below is generated by plot.py at 2018-07-03 23:38:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 180.09 Mbit/s

95th percentile per-packet one-way delay: 23.618 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 64.50 Mbit/s

95th percentile per-packet one-way delay: 19.983 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 106.73 Mbit/s

95th percentile per-packet one-way delay: 26.632 ms

Loss rate: 0.04%

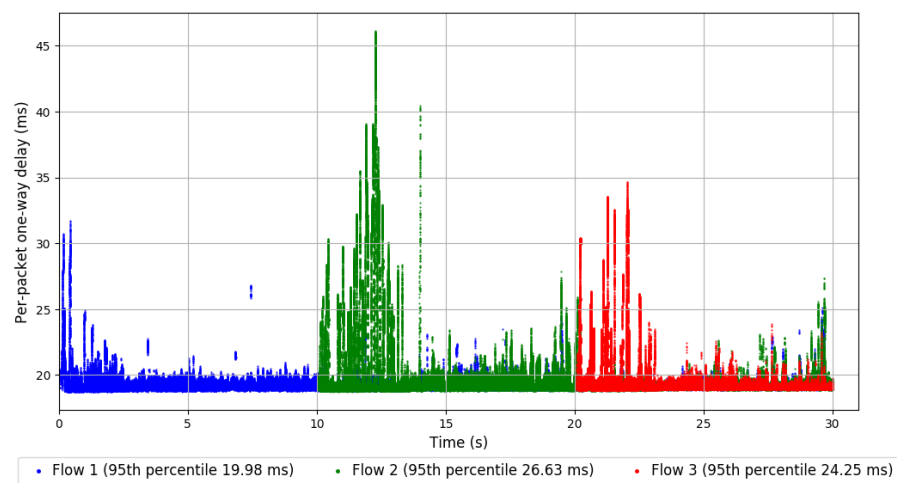
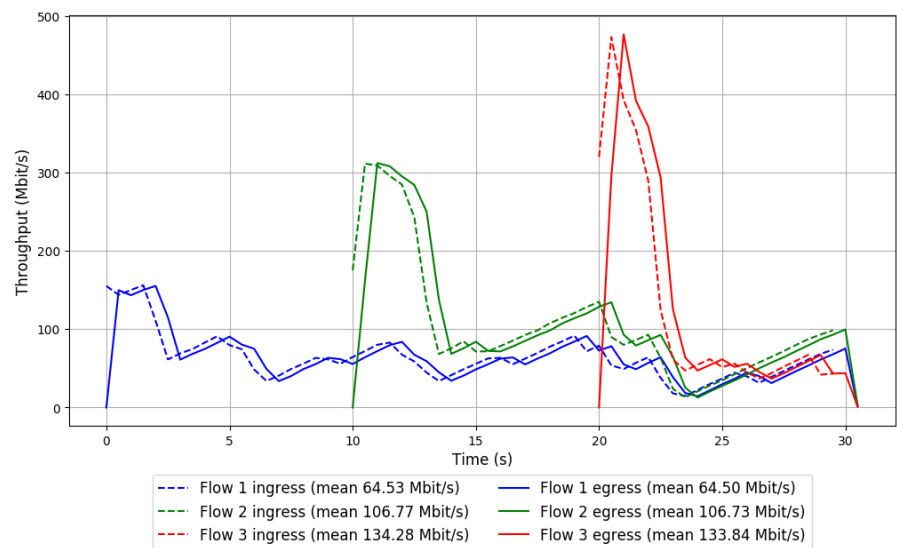
-- Flow 3:

Average throughput: 133.84 Mbit/s

95th percentile per-packet one-way delay: 24.250 ms

Loss rate: 0.32%

Run 6: Report of TCP Cubic — Data Link

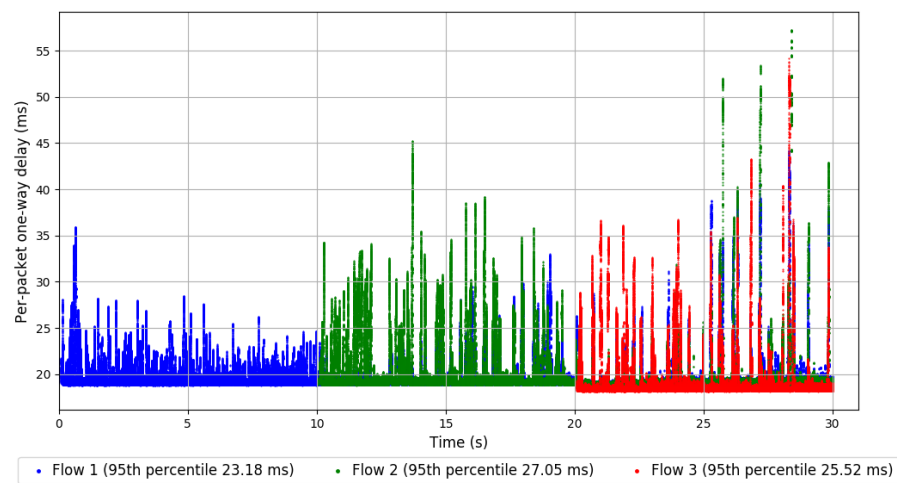
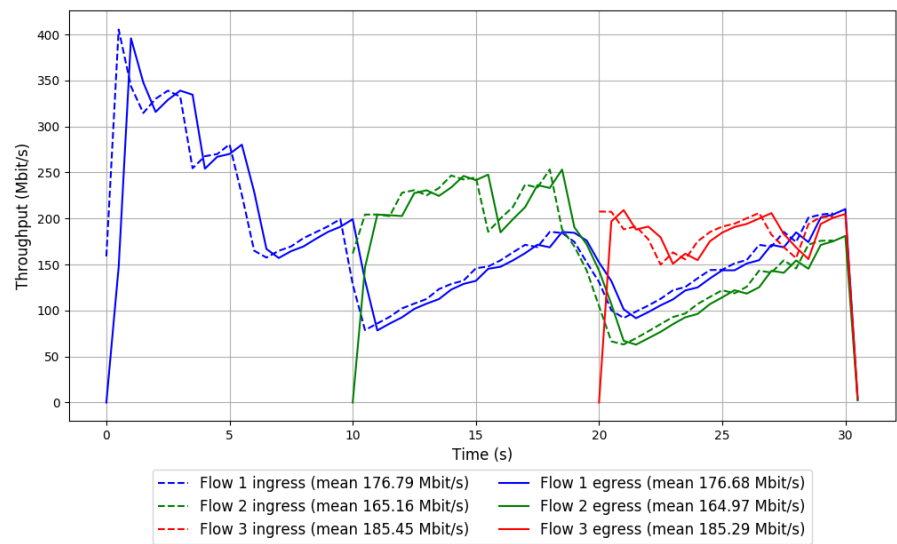


Run 7: Statistics of TCP Cubic

Start at: 2018-07-03 21:19:56
End at: 2018-07-03 21:20:26
Local clock offset: 0.055 ms
Remote clock offset: -1.148 ms

Below is generated by plot.py at 2018-07-03 23:38:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 348.19 Mbit/s
95th percentile per-packet one-way delay: 24.761 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 176.68 Mbit/s
95th percentile per-packet one-way delay: 23.180 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 164.97 Mbit/s
95th percentile per-packet one-way delay: 27.055 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 185.29 Mbit/s
95th percentile per-packet one-way delay: 25.516 ms
Loss rate: 0.09%

Run 7: Report of TCP Cubic — Data Link

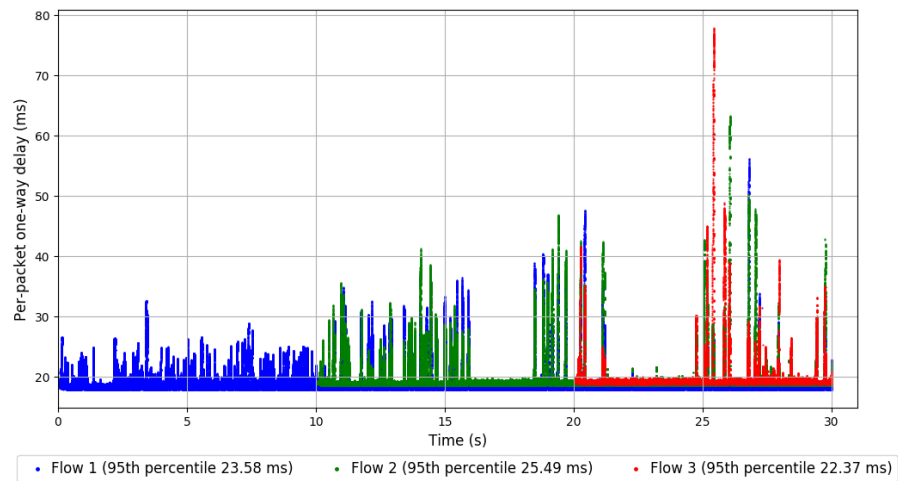
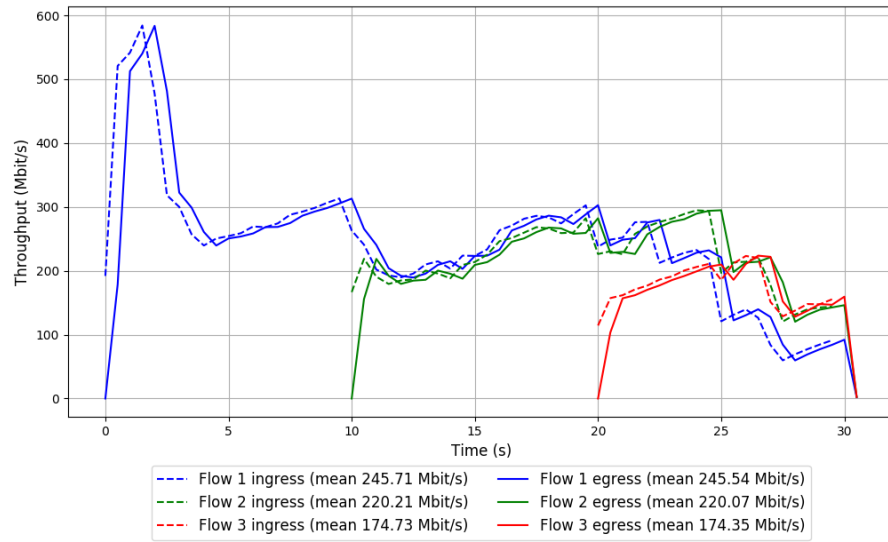


Run 8: Statistics of TCP Cubic

Start at: 2018-07-03 21:47:05
End at: 2018-07-03 21:47:35
Local clock offset: 0.206 ms
Remote clock offset: -0.708 ms

```
# Below is generated by plot.py at 2018-07-03 23:38:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 450.12 Mbit/s
95th percentile per-packet one-way delay: 24.038 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 245.54 Mbit/s
95th percentile per-packet one-way delay: 23.582 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 220.07 Mbit/s
95th percentile per-packet one-way delay: 25.492 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 174.35 Mbit/s
95th percentile per-packet one-way delay: 22.369 ms
Loss rate: 0.18%
```

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-03 22:14:20

End at: 2018-07-03 22:14:50

Local clock offset: 0.207 ms

Remote clock offset: 2.667 ms

Below is generated by plot.py at 2018-07-03 23:38:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 364.04 Mbit/s

95th percentile per-packet one-way delay: 22.392 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 204.67 Mbit/s

95th percentile per-packet one-way delay: 21.958 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 159.53 Mbit/s

95th percentile per-packet one-way delay: 23.042 ms

Loss rate: 0.06%

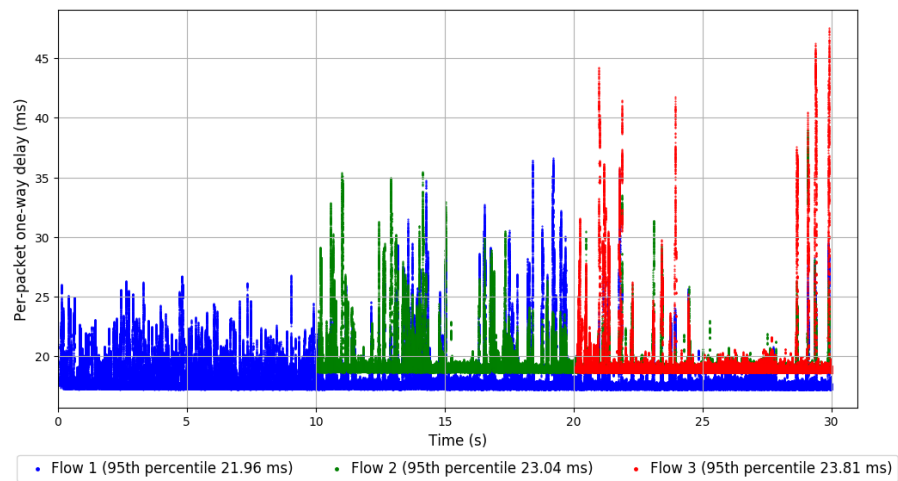
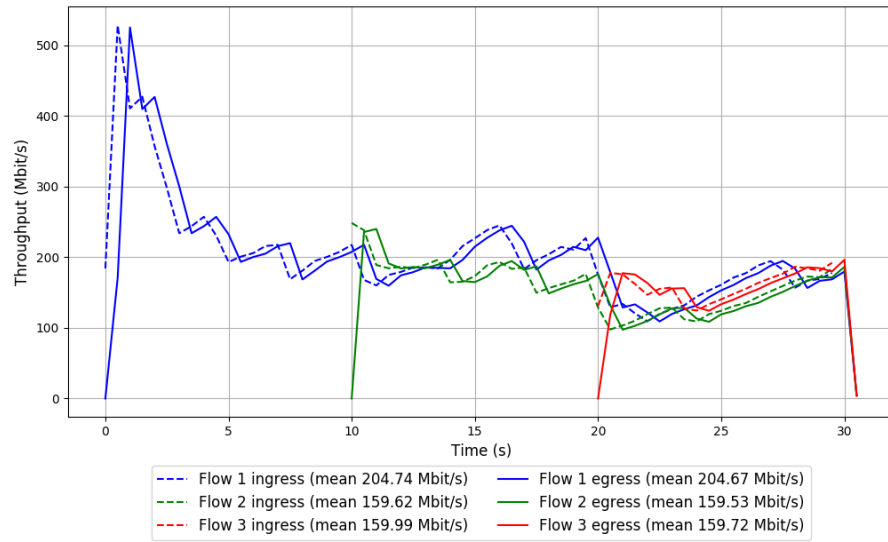
-- Flow 3:

Average throughput: 159.72 Mbit/s

95th percentile per-packet one-way delay: 23.808 ms

Loss rate: 0.16%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-03 22:41:29

End at: 2018-07-03 22:41:59

Local clock offset: 0.296 ms

Remote clock offset: 0.716 ms

Below is generated by plot.py at 2018-07-03 23:38:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.25 Mbit/s

95th percentile per-packet one-way delay: 23.111 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 152.56 Mbit/s

95th percentile per-packet one-way delay: 21.959 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 148.40 Mbit/s

95th percentile per-packet one-way delay: 24.640 ms

Loss rate: 0.26%

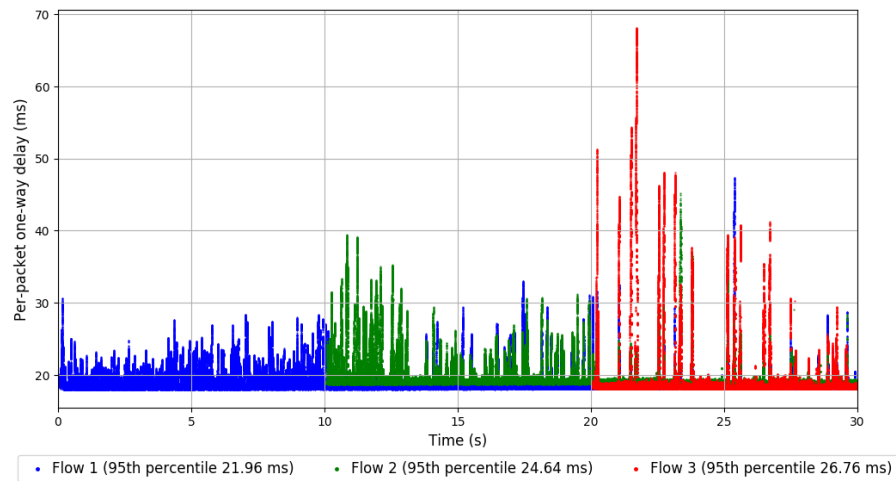
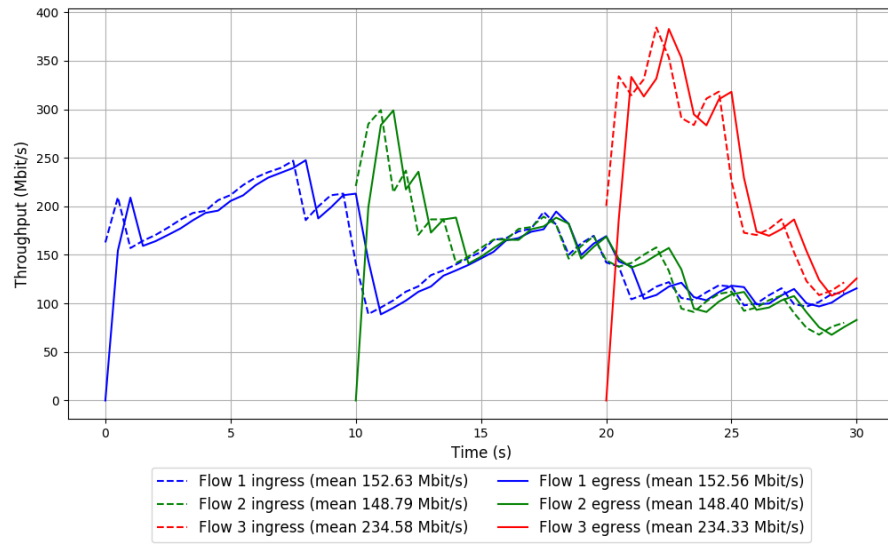
-- Flow 3:

Average throughput: 234.33 Mbit/s

95th percentile per-packet one-way delay: 26.756 ms

Loss rate: 0.10%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-03 18:41:22

End at: 2018-07-03 18:41:52

Local clock offset: -1.53 ms

Remote clock offset: 2.592 ms

Below is generated by plot.py at 2018-07-03 23:45:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 824.78 Mbit/s

95th percentile per-packet one-way delay: 103.680 ms

Loss rate: 13.83%

-- Flow 1:

Average throughput: 509.21 Mbit/s

95th percentile per-packet one-way delay: 102.587 ms

Loss rate: 11.09%

-- Flow 2:

Average throughput: 273.69 Mbit/s

95th percentile per-packet one-way delay: 71.436 ms

Loss rate: 20.60%

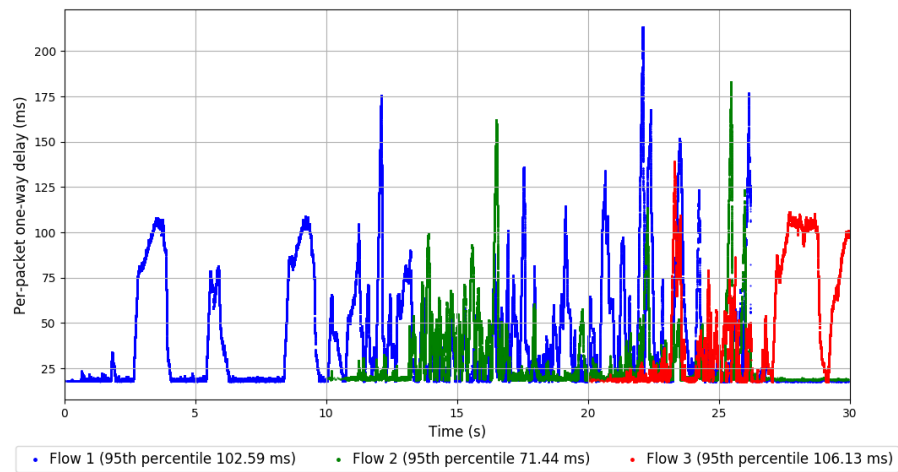
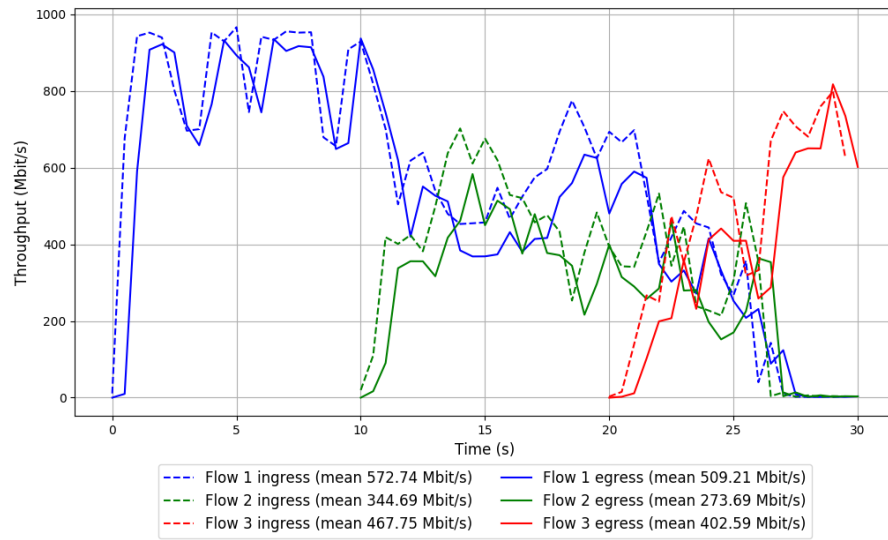
-- Flow 3:

Average throughput: 402.59 Mbit/s

95th percentile per-packet one-way delay: 106.130 ms

Loss rate: 13.94%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-03 19:08:50

End at: 2018-07-03 19:09:20

Local clock offset: -3.016 ms

Remote clock offset: 5.015 ms

Below is generated by plot.py at 2018-07-03 23:47:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 832.30 Mbit/s

95th percentile per-packet one-way delay: 102.364 ms

Loss rate: 16.41%

-- Flow 1:

Average throughput: 478.10 Mbit/s

95th percentile per-packet one-way delay: 101.892 ms

Loss rate: 12.47%

-- Flow 2:

Average throughput: 351.87 Mbit/s

95th percentile per-packet one-way delay: 107.290 ms

Loss rate: 20.58%

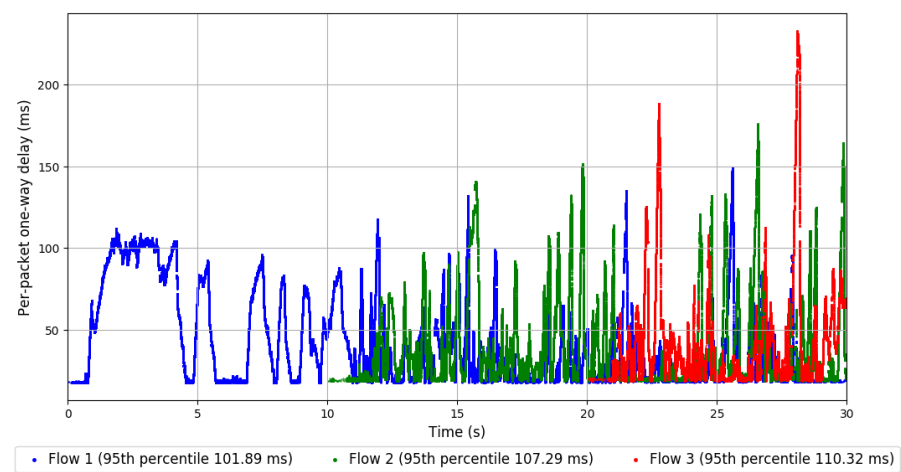
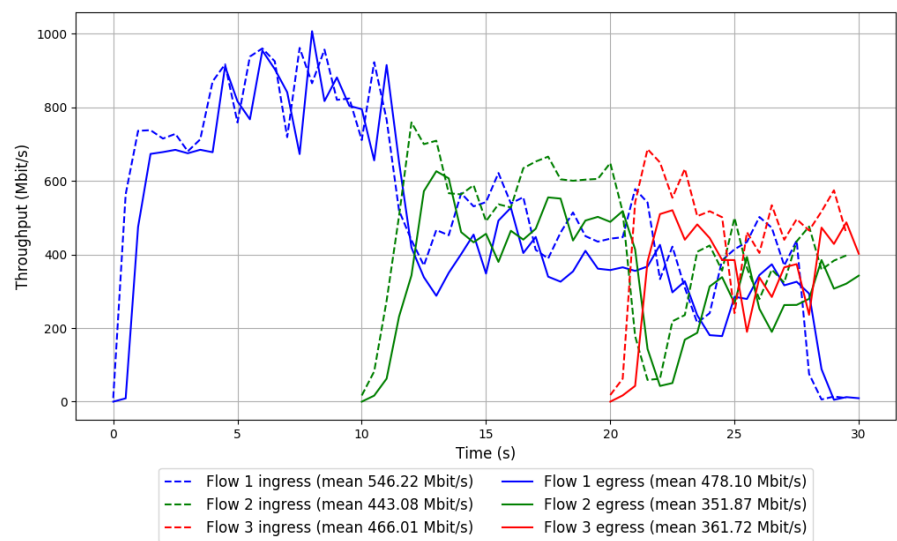
-- Flow 3:

Average throughput: 361.72 Mbit/s

95th percentile per-packet one-way delay: 110.318 ms

Loss rate: 22.38%

Run 2: Report of FillP — Data Link

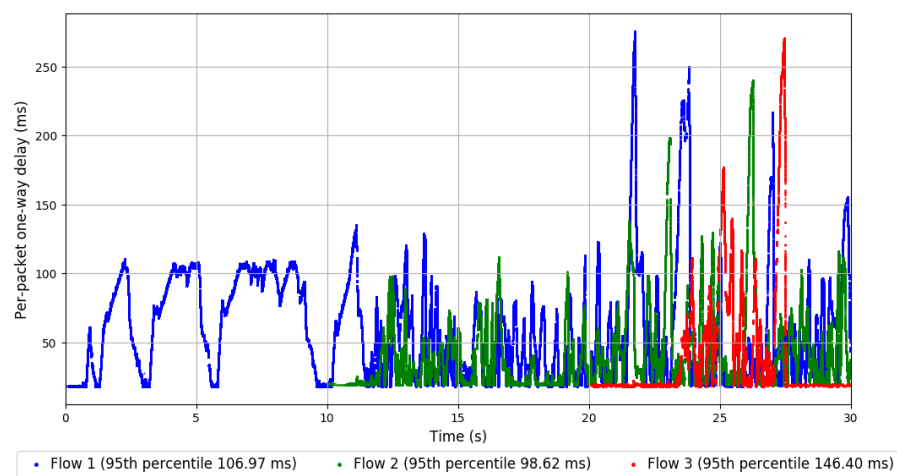
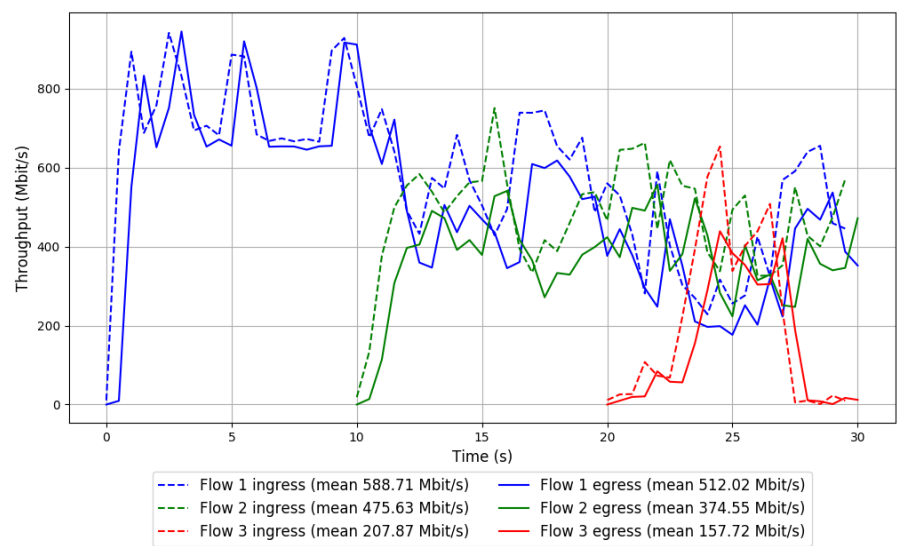


Run 3: Statistics of FillP

Start at: 2018-07-03 19:35:59
End at: 2018-07-03 19:36:29
Local clock offset: -2.022 ms
Remote clock offset: -1.081 ms

Below is generated by plot.py at 2018-07-03 23:48:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 813.79 Mbit/s
95th percentile per-packet one-way delay: 107.103 ms
Loss rate: 16.48%
-- Flow 1:
Average throughput: 512.02 Mbit/s
95th percentile per-packet one-way delay: 106.967 ms
Loss rate: 13.02%
-- Flow 2:
Average throughput: 374.55 Mbit/s
95th percentile per-packet one-way delay: 98.620 ms
Loss rate: 21.25%
-- Flow 3:
Average throughput: 157.72 Mbit/s
95th percentile per-packet one-way delay: 146.397 ms
Loss rate: 24.13%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-03 20:03:08

End at: 2018-07-03 20:03:38

Local clock offset: 0.883 ms

Remote clock offset: 2.722 ms

Below is generated by plot.py at 2018-07-03 23:48:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 746.44 Mbit/s

95th percentile per-packet one-way delay: 114.155 ms

Loss rate: 13.78%

-- Flow 1:

Average throughput: 403.47 Mbit/s

95th percentile per-packet one-way delay: 106.933 ms

Loss rate: 10.02%

-- Flow 2:

Average throughput: 443.09 Mbit/s

95th percentile per-packet one-way delay: 141.303 ms

Loss rate: 16.66%

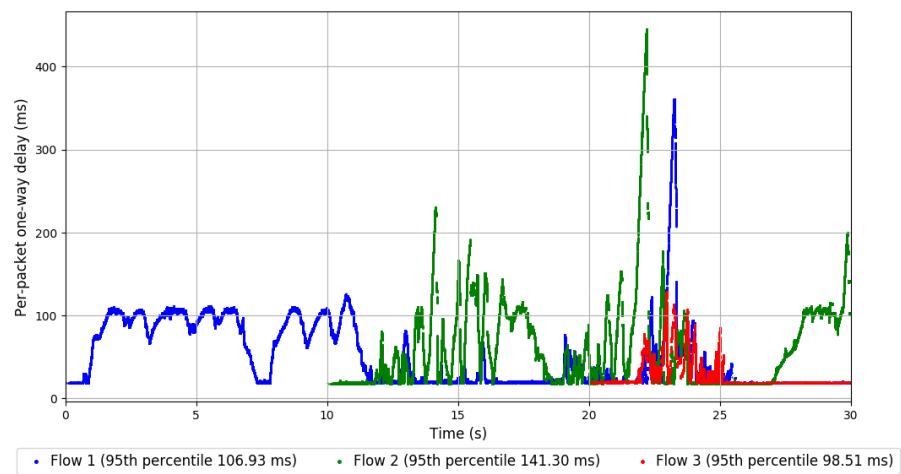
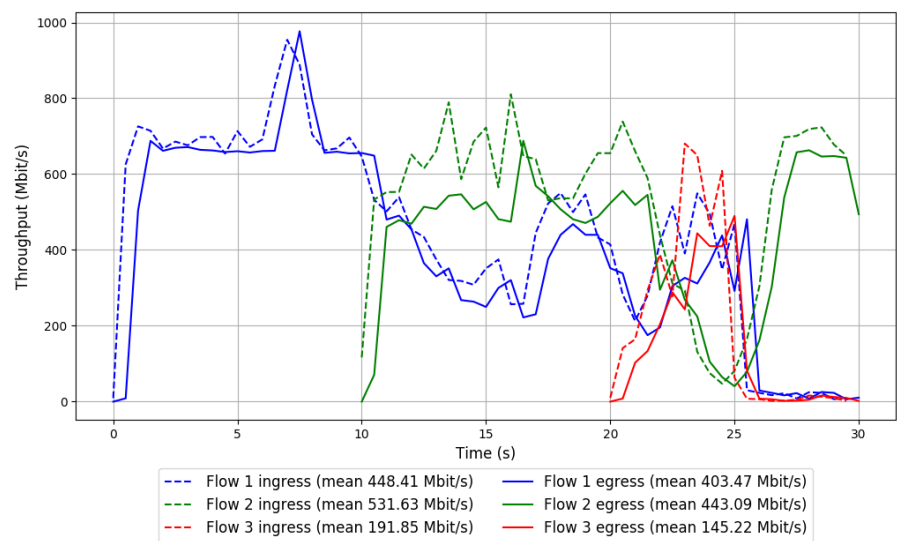
-- Flow 3:

Average throughput: 145.22 Mbit/s

95th percentile per-packet one-way delay: 98.507 ms

Loss rate: 24.32%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-03 20:30:22

End at: 2018-07-03 20:30:52

Local clock offset: 1.086 ms

Remote clock offset: 3.052 ms

Below is generated by plot.py at 2018-07-03 23:48:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 761.08 Mbit/s

95th percentile per-packet one-way delay: 111.376 ms

Loss rate: 13.89%

-- Flow 1:

Average throughput: 388.60 Mbit/s

95th percentile per-packet one-way delay: 107.016 ms

Loss rate: 11.56%

-- Flow 2:

Average throughput: 414.63 Mbit/s

95th percentile per-packet one-way delay: 157.259 ms

Loss rate: 15.75%

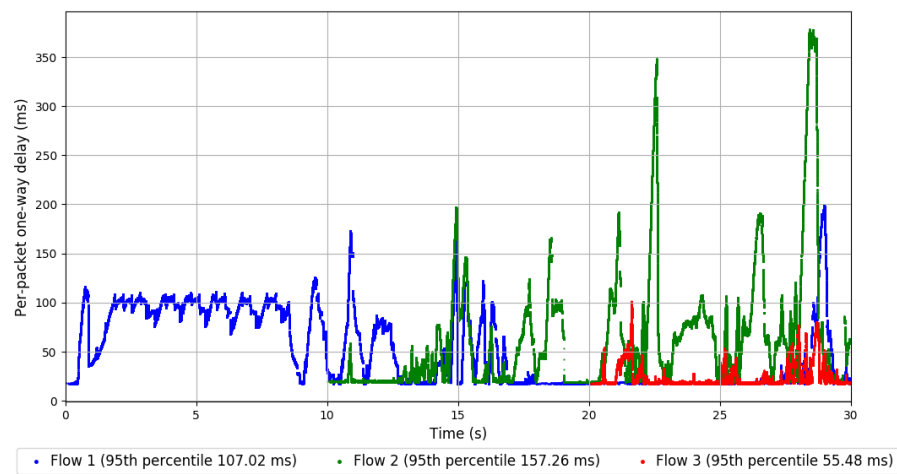
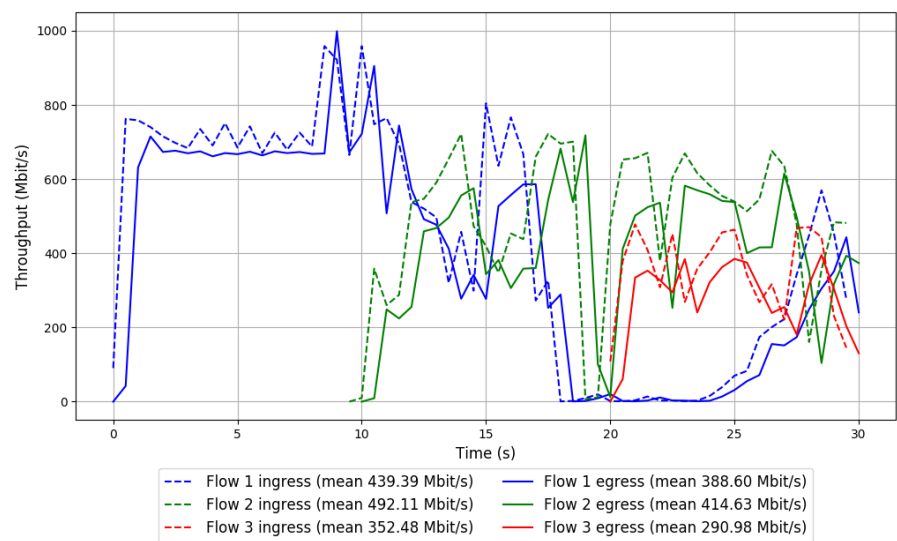
-- Flow 3:

Average throughput: 290.98 Mbit/s

95th percentile per-packet one-way delay: 55.483 ms

Loss rate: 17.45%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-03 20:57:16

End at: 2018-07-03 20:57:46

Local clock offset: -2.79 ms

Remote clock offset: 1.345 ms

Below is generated by plot.py at 2018-07-03 23:49:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 779.78 Mbit/s

95th percentile per-packet one-way delay: 114.734 ms

Loss rate: 14.50%

-- Flow 1:

Average throughput: 507.07 Mbit/s

95th percentile per-packet one-way delay: 110.297 ms

Loss rate: 11.89%

-- Flow 2:

Average throughput: 221.93 Mbit/s

95th percentile per-packet one-way delay: 133.266 ms

Loss rate: 17.96%

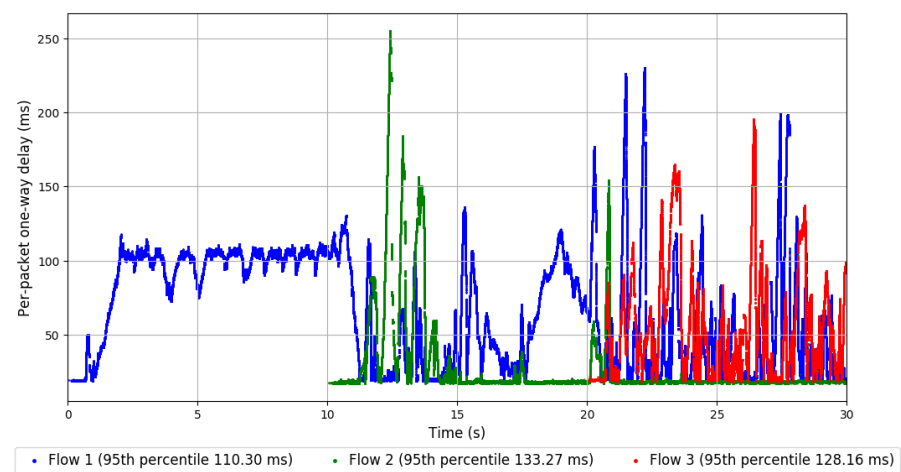
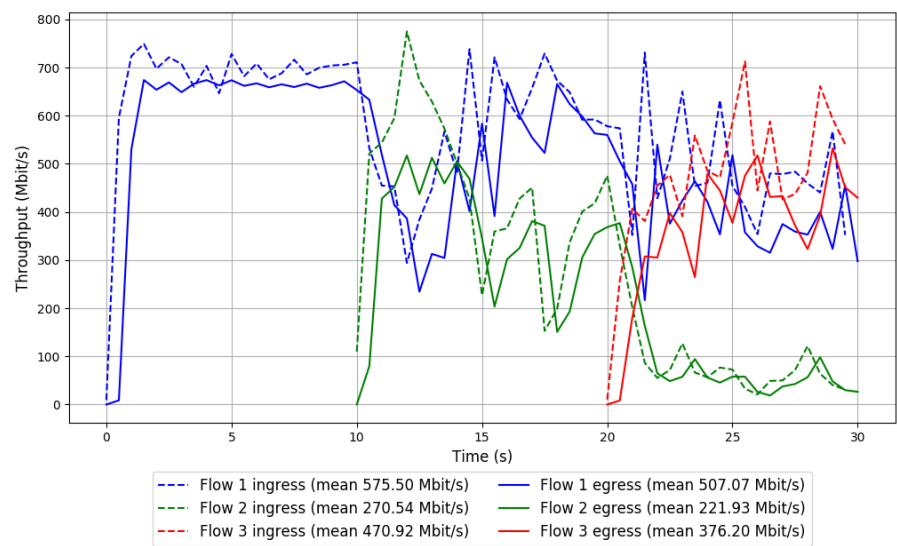
-- Flow 3:

Average throughput: 376.20 Mbit/s

95th percentile per-packet one-way delay: 128.160 ms

Loss rate: 20.11%

Run 6: Report of FillP — Data Link

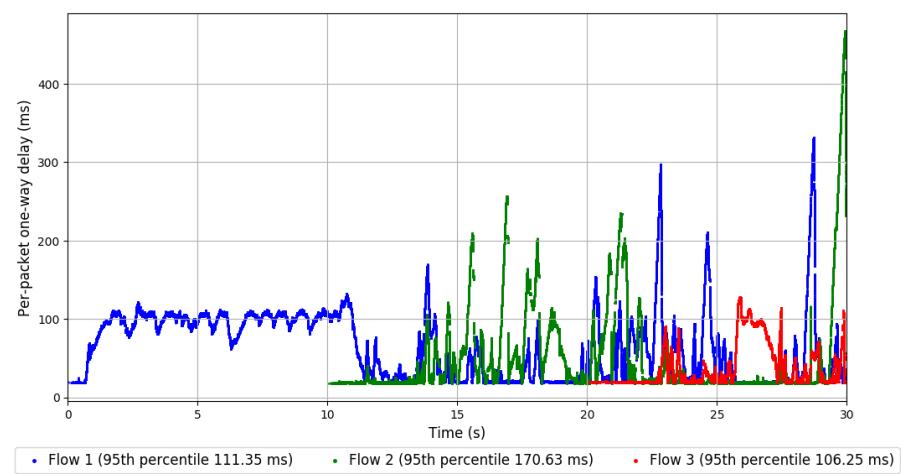
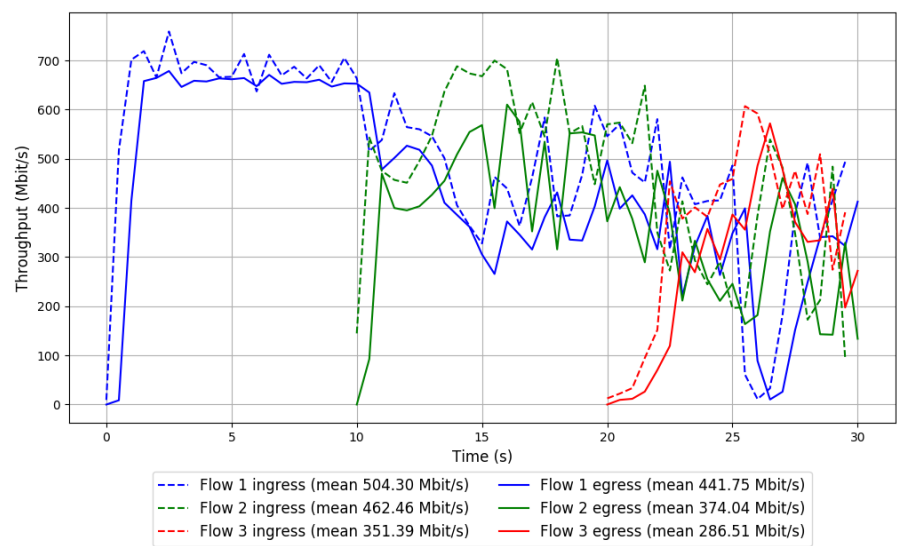


Run 7: Statistics of FillP

Start at: 2018-07-03 21:24:29
End at: 2018-07-03 21:24:59
Local clock offset: 0.434 ms
Remote clock offset: -1.433 ms

Below is generated by plot.py at 2018-07-03 23:50:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 785.79 Mbit/s
95th percentile per-packet one-way delay: 119.190 ms
Loss rate: 15.39%
-- Flow 1:
Average throughput: 441.75 Mbit/s
95th percentile per-packet one-way delay: 111.354 ms
Loss rate: 12.40%
-- Flow 2:
Average throughput: 374.04 Mbit/s
95th percentile per-packet one-way delay: 170.630 ms
Loss rate: 19.11%
-- Flow 3:
Average throughput: 286.51 Mbit/s
95th percentile per-packet one-way delay: 106.245 ms
Loss rate: 18.46%

Run 7: Report of FillP — Data Link

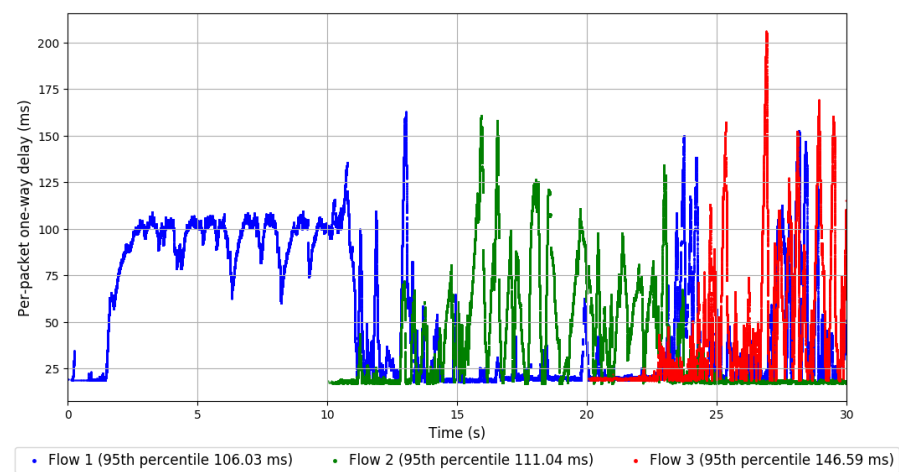
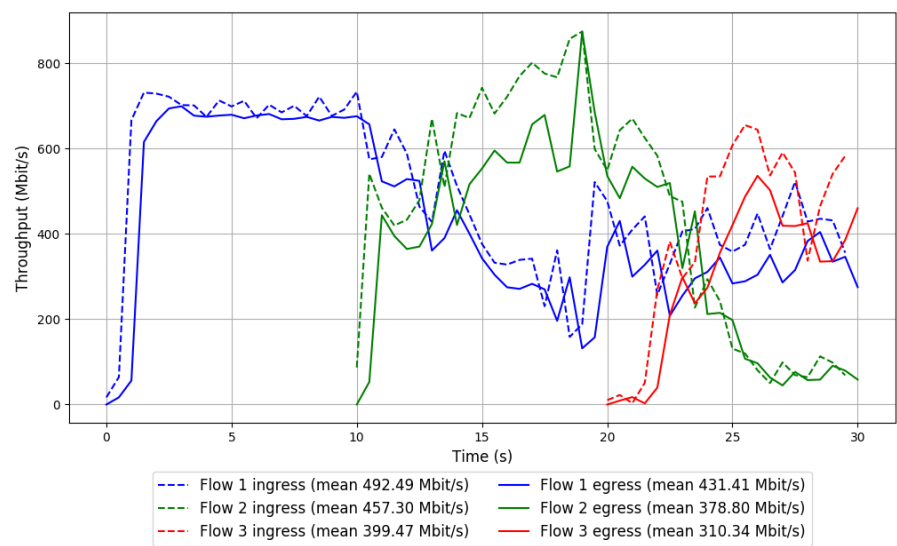


Run 8: Statistics of FillP

Start at: 2018-07-03 21:51:45
End at: 2018-07-03 21:52:15
Local clock offset: 0.109 ms
Remote clock offset: -0.724 ms

Below is generated by plot.py at 2018-07-03 23:50:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 786.56 Mbit/s
95th percentile per-packet one-way delay: 108.683 ms
Loss rate: 15.37%
-- Flow 1:
Average throughput: 431.41 Mbit/s
95th percentile per-packet one-way delay: 106.035 ms
Loss rate: 12.40%
-- Flow 2:
Average throughput: 378.80 Mbit/s
95th percentile per-packet one-way delay: 111.036 ms
Loss rate: 17.17%
-- Flow 3:
Average throughput: 310.34 Mbit/s
95th percentile per-packet one-way delay: 146.589 ms
Loss rate: 22.28%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-03 22:18:56

End at: 2018-07-03 22:19:26

Local clock offset: 0.355 ms

Remote clock offset: 3.151 ms

Below is generated by plot.py at 2018-07-03 23:58:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 803.37 Mbit/s

95th percentile per-packet one-way delay: 109.114 ms

Loss rate: 13.19%

-- Flow 1:

Average throughput: 551.88 Mbit/s

95th percentile per-packet one-way delay: 111.878 ms

Loss rate: 10.76%

-- Flow 2:

Average throughput: 210.71 Mbit/s

95th percentile per-packet one-way delay: 43.377 ms

Loss rate: 15.56%

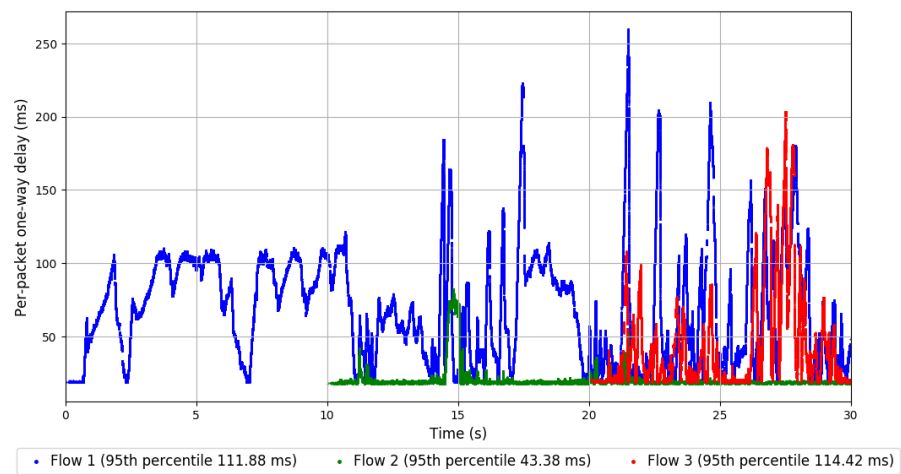
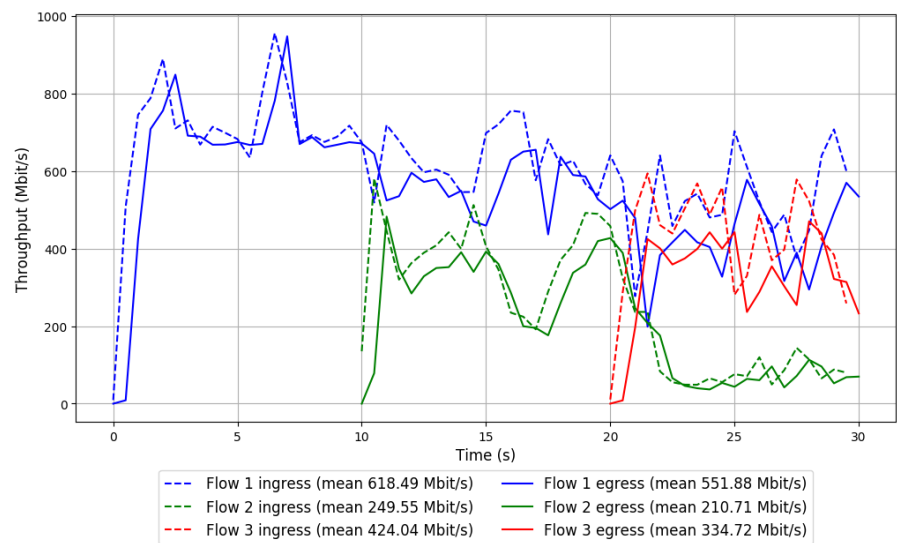
-- Flow 3:

Average throughput: 334.72 Mbit/s

95th percentile per-packet one-way delay: 114.421 ms

Loss rate: 21.06%

Run 9: Report of FillP — Data Link

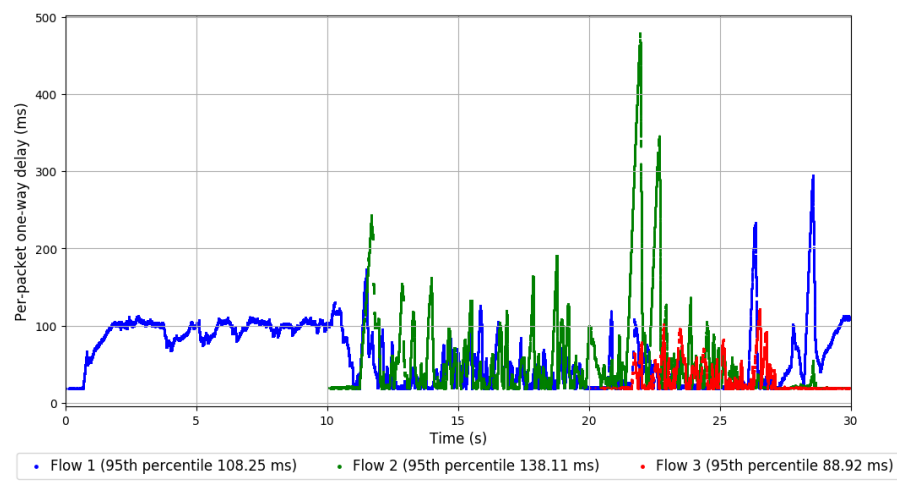
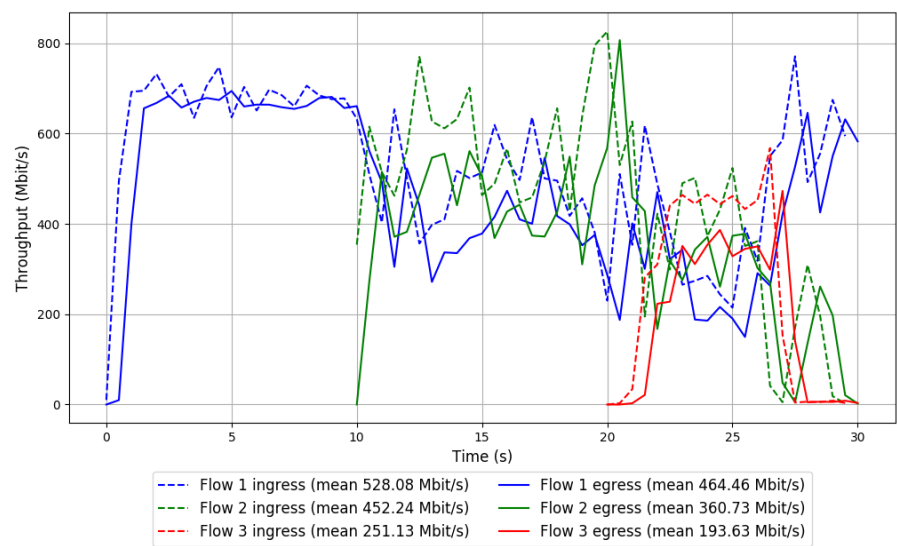


Run 10: Statistics of FillP

Start at: 2018-07-03 22:46:04
End at: 2018-07-03 22:46:34
Local clock offset: 0.23 ms
Remote clock offset: -0.326 ms

Below is generated by plot.py at 2018-07-03 23:59:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 768.50 Mbit/s
95th percentile per-packet one-way delay: 109.397 ms
Loss rate: 15.74%
-- Flow 1:
Average throughput: 464.46 Mbit/s
95th percentile per-packet one-way delay: 108.255 ms
Loss rate: 12.05%
-- Flow 2:
Average throughput: 360.73 Mbit/s
95th percentile per-packet one-way delay: 138.111 ms
Loss rate: 20.23%
-- Flow 3:
Average throughput: 193.63 Mbit/s
95th percentile per-packet one-way delay: 88.919 ms
Loss rate: 22.90%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-03 18:43:09

End at: 2018-07-03 18:43:39

Local clock offset: -1.924 ms

Remote clock offset: 2.88 ms

Below is generated by plot.py at 2018-07-03 23:59:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 671.84 Mbit/s

95th percentile per-packet one-way delay: 78.830 ms

Loss rate: 14.22%

-- Flow 1:

Average throughput: 352.10 Mbit/s

95th percentile per-packet one-way delay: 79.942 ms

Loss rate: 14.55%

-- Flow 2:

Average throughput: 70.15 Mbit/s

95th percentile per-packet one-way delay: 135.526 ms

Loss rate: 27.03%

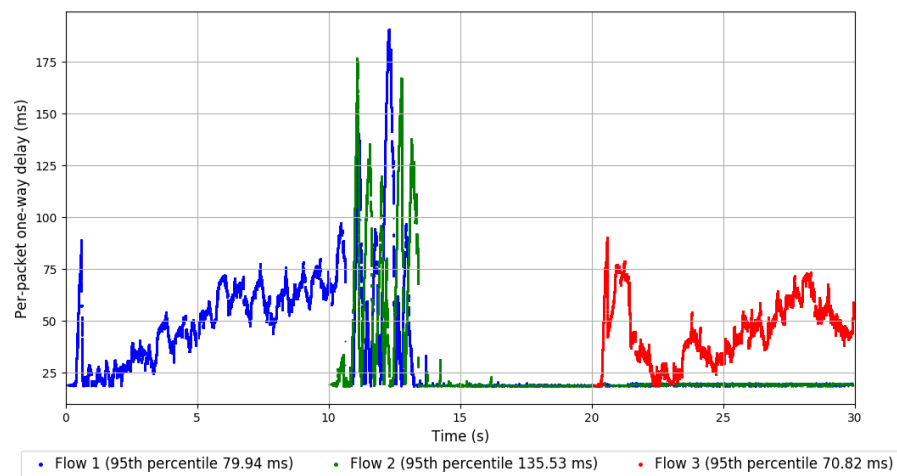
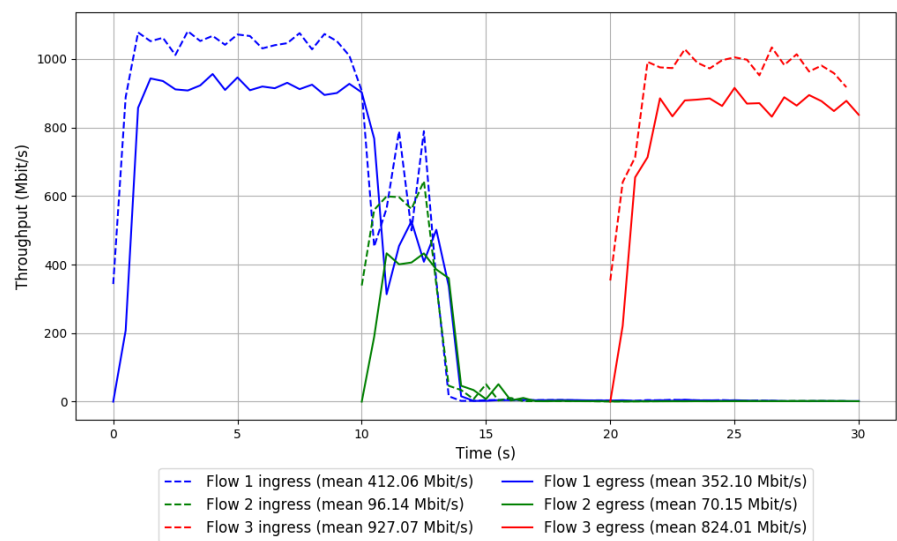
-- Flow 3:

Average throughput: 824.01 Mbit/s

95th percentile per-packet one-way delay: 70.824 ms

Loss rate: 11.11%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-03 19:10:39

End at: 2018-07-03 19:11:09

Local clock offset: -2.939 ms

Remote clock offset: 4.151 ms

Below is generated by plot.py at 2018-07-04 00:00:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 765.06 Mbit/s

95th percentile per-packet one-way delay: 78.927 ms

Loss rate: 17.49%

-- Flow 1:

Average throughput: 337.75 Mbit/s

95th percentile per-packet one-way delay: 71.803 ms

Loss rate: 13.76%

-- Flow 2:

Average throughput: 448.25 Mbit/s

95th percentile per-packet one-way delay: 104.261 ms

Loss rate: 17.77%

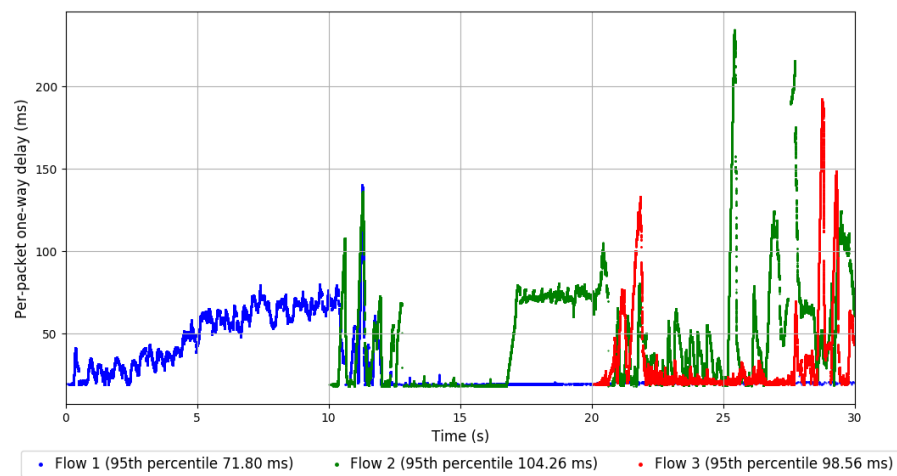
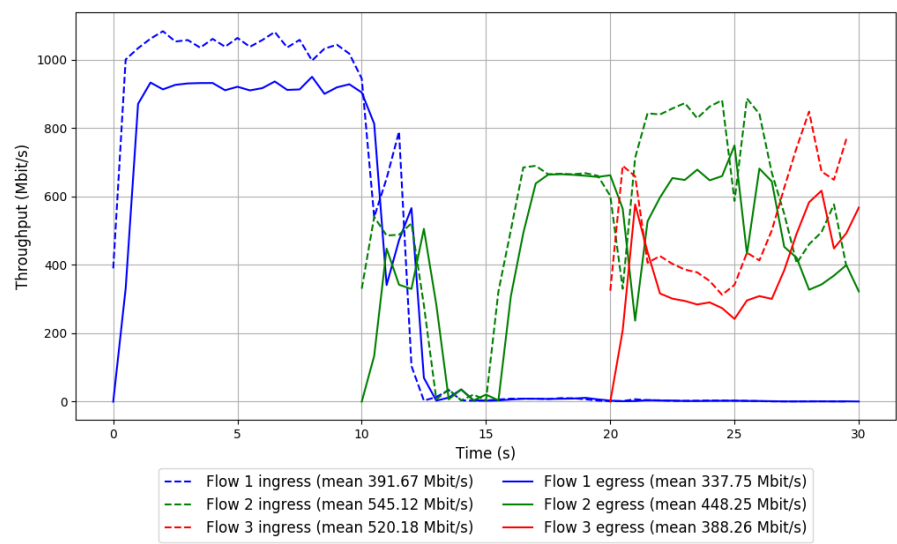
-- Flow 3:

Average throughput: 388.26 Mbit/s

95th percentile per-packet one-way delay: 98.565 ms

Loss rate: 25.36%

Run 2: Report of FillP-Sheep — Data Link

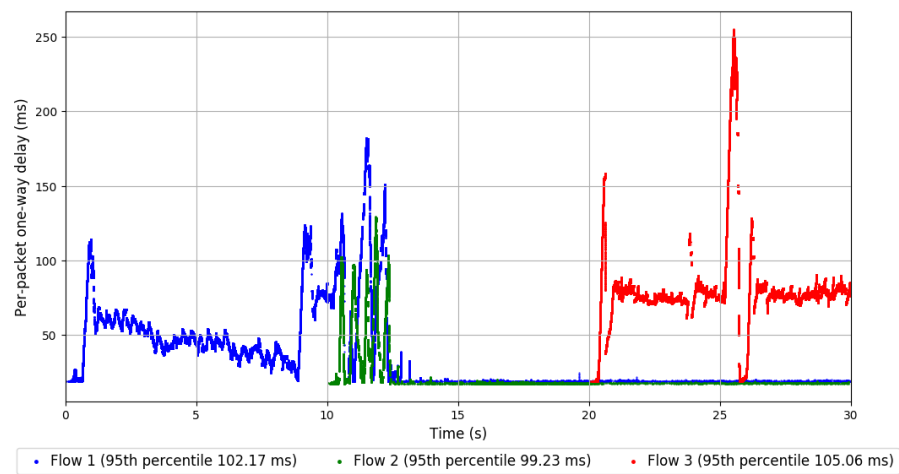
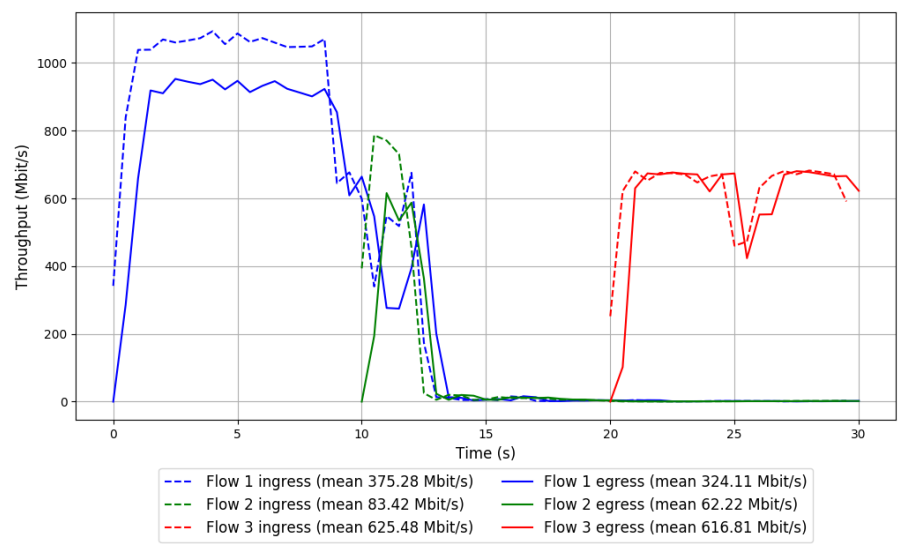


Run 3: Statistics of FillP-Sheep

Start at: 2018-07-03 19:37:47
End at: 2018-07-03 19:38:17
Local clock offset: -1.51 ms
Remote clock offset: -1.162 ms

Below is generated by plot.py at 2018-07-04 00:00:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 569.82 Mbit/s
95th percentile per-packet one-way delay: 102.477 ms
Loss rate: 10.68%
-- Flow 1:
Average throughput: 324.11 Mbit/s
95th percentile per-packet one-way delay: 102.166 ms
Loss rate: 13.63%
-- Flow 2:
Average throughput: 62.22 Mbit/s
95th percentile per-packet one-way delay: 99.231 ms
Loss rate: 25.41%
-- Flow 3:
Average throughput: 616.81 Mbit/s
95th percentile per-packet one-way delay: 105.064 ms
Loss rate: 1.38%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-03 20:04:52

End at: 2018-07-03 20:05:22

Local clock offset: 0.869 ms

Remote clock offset: 2.791 ms

Below is generated by plot.py at 2018-07-04 00:00:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 665.19 Mbit/s

95th percentile per-packet one-way delay: 90.244 ms

Loss rate: 14.63%

-- Flow 1:

Average throughput: 441.21 Mbit/s

95th percentile per-packet one-way delay: 75.735 ms

Loss rate: 13.28%

-- Flow 2:

Average throughput: 69.02 Mbit/s

95th percentile per-packet one-way delay: 96.051 ms

Loss rate: 20.16%

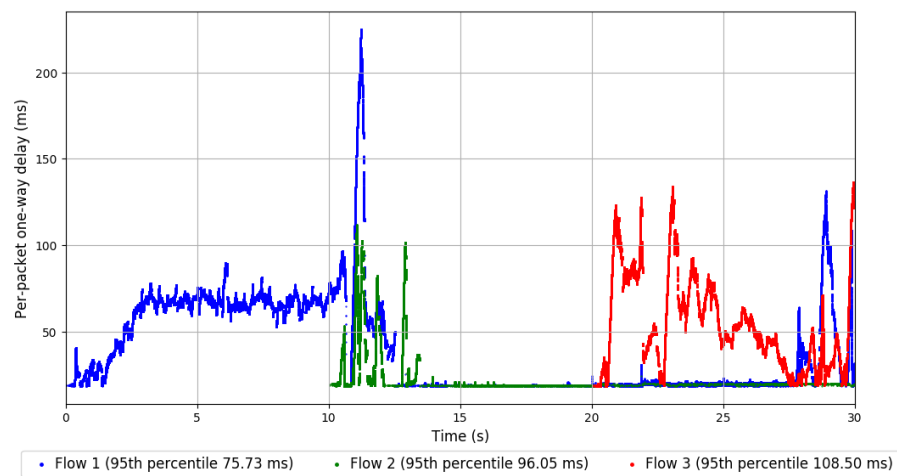
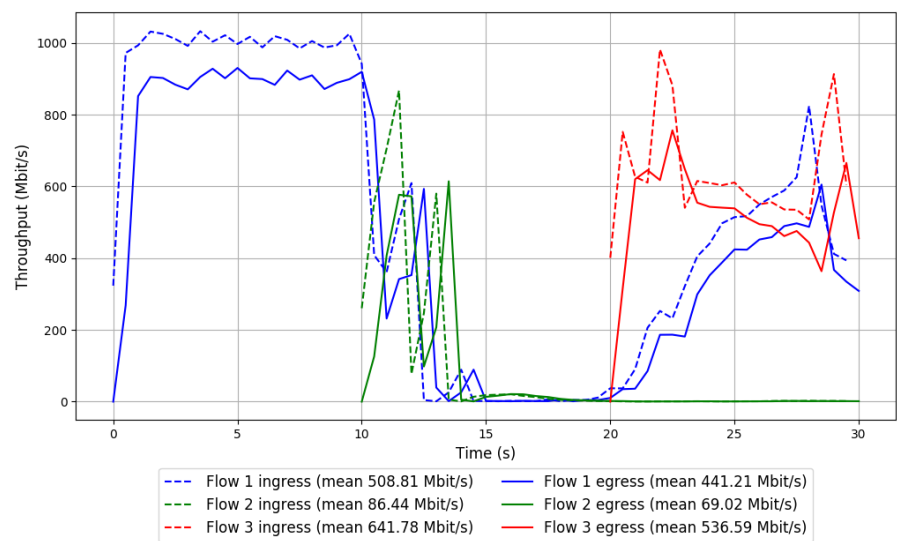
-- Flow 3:

Average throughput: 536.59 Mbit/s

95th percentile per-packet one-way delay: 108.500 ms

Loss rate: 16.37%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-03 20:32:07

End at: 2018-07-03 20:32:37

Local clock offset: 1.132 ms

Remote clock offset: 3.103 ms

Below is generated by plot.py at 2018-07-04 00:00:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 626.05 Mbit/s

95th percentile per-packet one-way delay: 87.149 ms

Loss rate: 10.52%

-- Flow 1:

Average throughput: 303.21 Mbit/s

95th percentile per-packet one-way delay: 94.178 ms

Loss rate: 7.60%

-- Flow 2:

Average throughput: 85.84 Mbit/s

95th percentile per-packet one-way delay: 91.270 ms

Loss rate: 31.96%

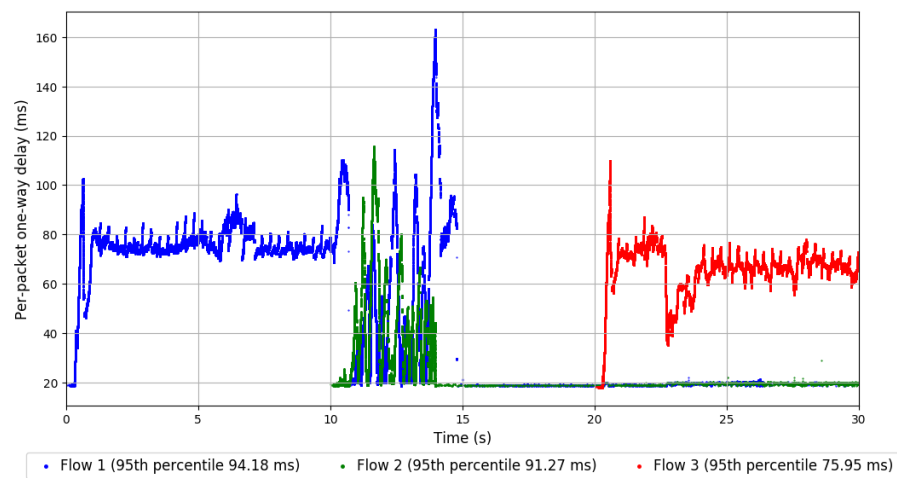
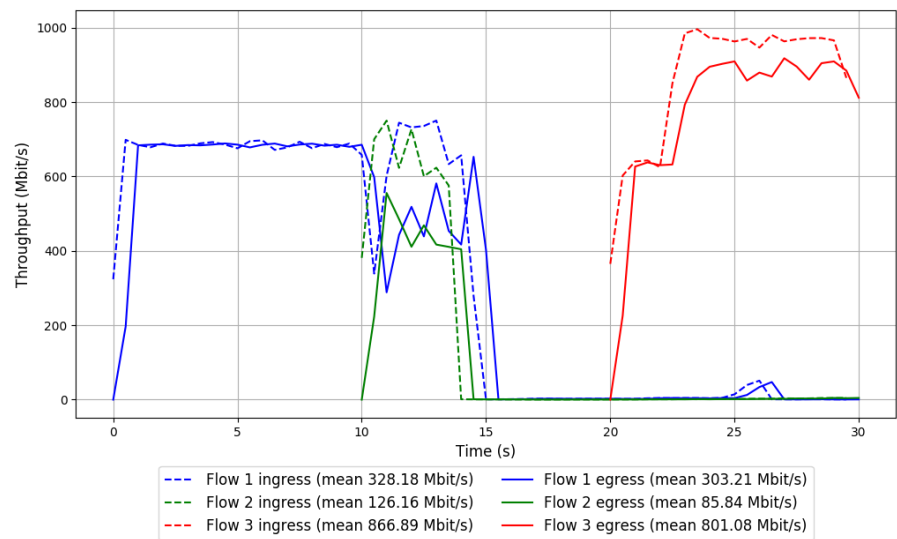
-- Flow 3:

Average throughput: 801.08 Mbit/s

95th percentile per-packet one-way delay: 75.952 ms

Loss rate: 7.59%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-03 20:59:01

End at: 2018-07-03 20:59:31

Local clock offset: -2.954 ms

Remote clock offset: 0.853 ms

Below is generated by plot.py at 2018-07-04 00:04:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 843.27 Mbit/s

95th percentile per-packet one-way delay: 119.648 ms

Loss rate: 17.38%

-- Flow 1:

Average throughput: 422.33 Mbit/s

95th percentile per-packet one-way delay: 108.860 ms

Loss rate: 16.75%

-- Flow 2:

Average throughput: 584.59 Mbit/s

95th percentile per-packet one-way delay: 122.078 ms

Loss rate: 15.83%

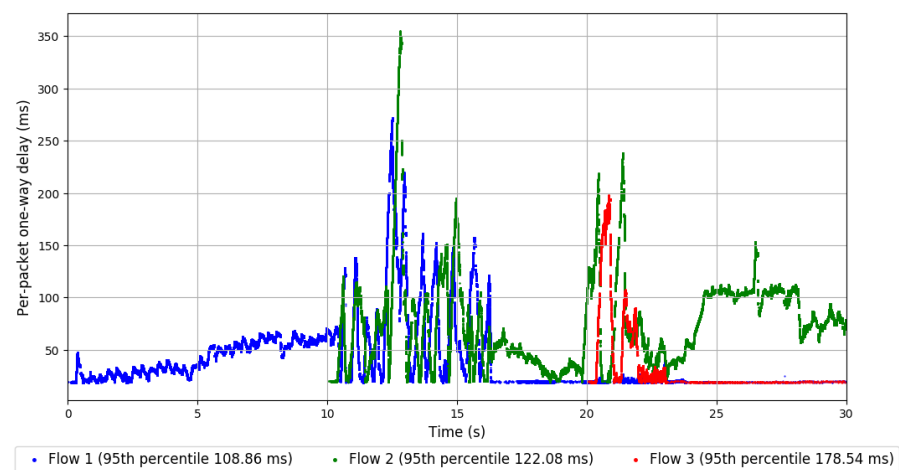
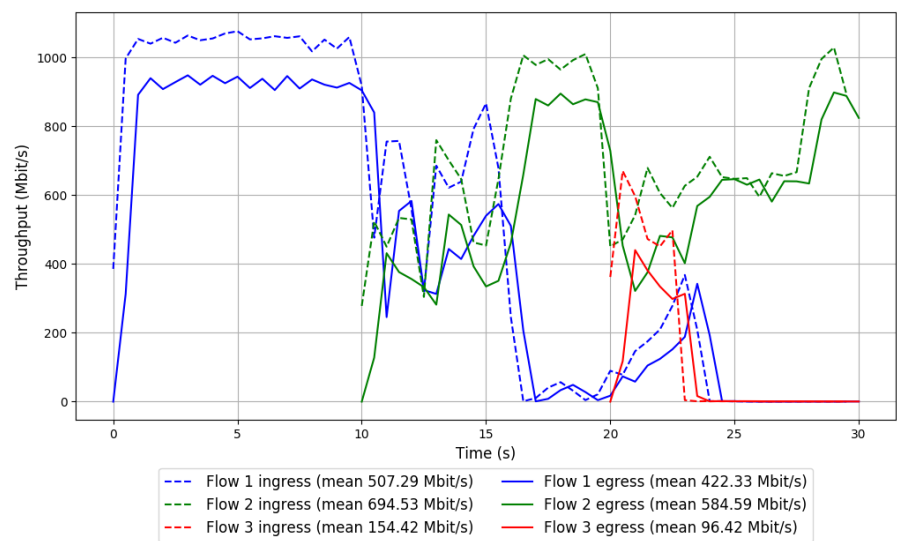
-- Flow 3:

Average throughput: 96.42 Mbit/s

95th percentile per-packet one-way delay: 178.539 ms

Loss rate: 37.64%

Run 6: Report of FillP-Sheep — Data Link

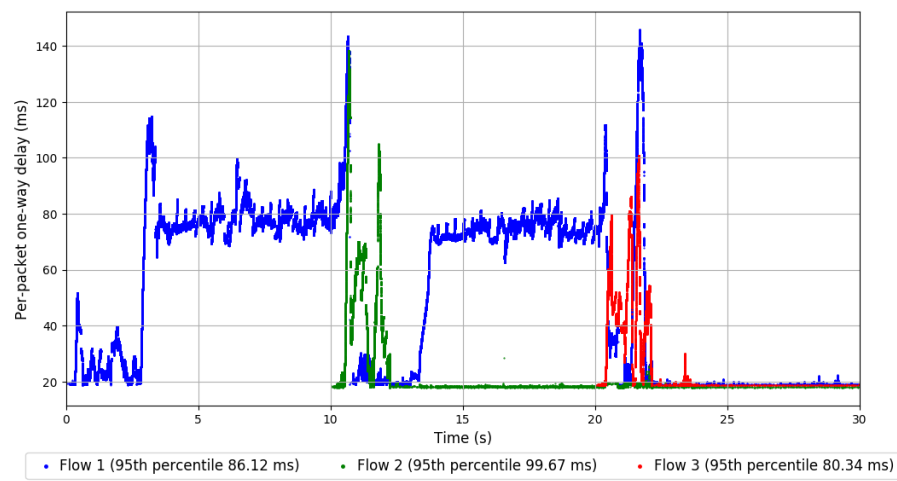
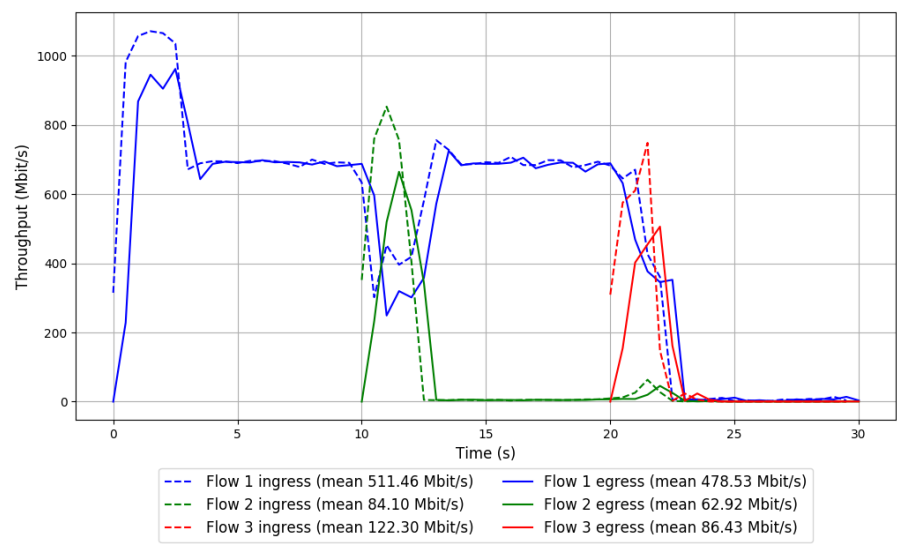


Run 7: Statistics of FillP-Sheep

Start at: 2018-07-03 21:26:15
End at: 2018-07-03 21:26:45
Local clock offset: 0.529 ms
Remote clock offset: -1.342 ms

Below is generated by plot.py at 2018-07-04 00:05:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 548.69 Mbit/s
95th percentile per-packet one-way delay: 86.874 ms
Loss rate: 9.69%
-- Flow 1:
Average throughput: 478.53 Mbit/s
95th percentile per-packet one-way delay: 86.123 ms
Loss rate: 6.44%
-- Flow 2:
Average throughput: 62.92 Mbit/s
95th percentile per-packet one-way delay: 99.675 ms
Loss rate: 25.19%
-- Flow 3:
Average throughput: 86.43 Mbit/s
95th percentile per-packet one-way delay: 80.339 ms
Loss rate: 29.33%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-03 21:53:30

End at: 2018-07-03 21:54:00

Local clock offset: 0.092 ms

Remote clock offset: -0.67 ms

Below is generated by plot.py at 2018-07-04 00:09:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 722.12 Mbit/s

95th percentile per-packet one-way delay: 91.886 ms

Loss rate: 20.51%

-- Flow 1:

Average throughput: 489.73 Mbit/s

95th percentile per-packet one-way delay: 92.708 ms

Loss rate: 18.50%

-- Flow 2:

Average throughput: 306.59 Mbit/s

95th percentile per-packet one-way delay: 87.998 ms

Loss rate: 22.21%

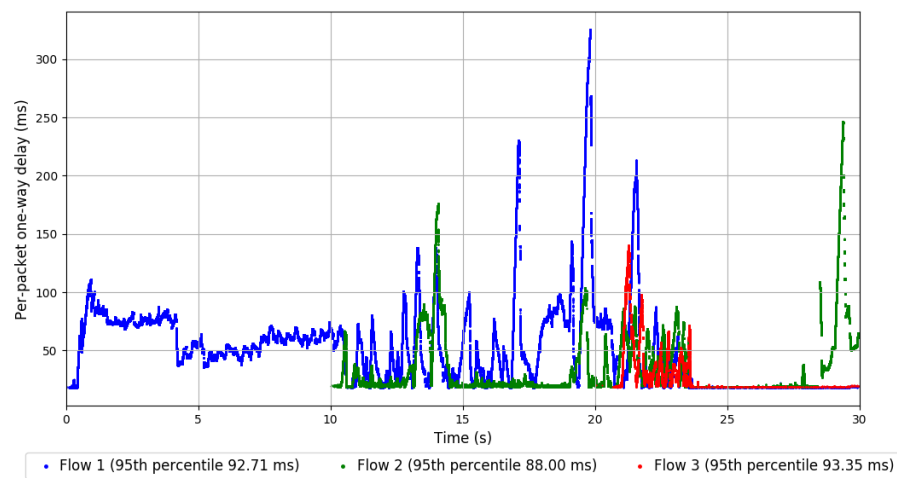
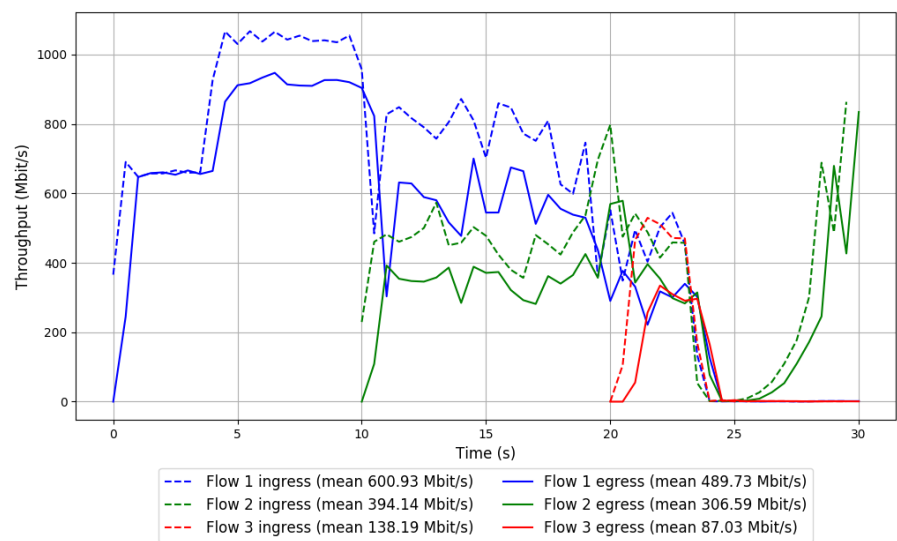
-- Flow 3:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 93.347 ms

Loss rate: 37.02%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-03 22:20:42

End at: 2018-07-03 22:21:12

Local clock offset: 0.366 ms

Remote clock offset: 3.286 ms

Below is generated by plot.py at 2018-07-04 00:09:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 641.82 Mbit/s

95th percentile per-packet one-way delay: 73.869 ms

Loss rate: 11.14%

-- Flow 1:

Average throughput: 327.78 Mbit/s

95th percentile per-packet one-way delay: 71.406 ms

Loss rate: 12.64%

-- Flow 2:

Average throughput: 46.40 Mbit/s

95th percentile per-packet one-way delay: 114.431 ms

Loss rate: 24.48%

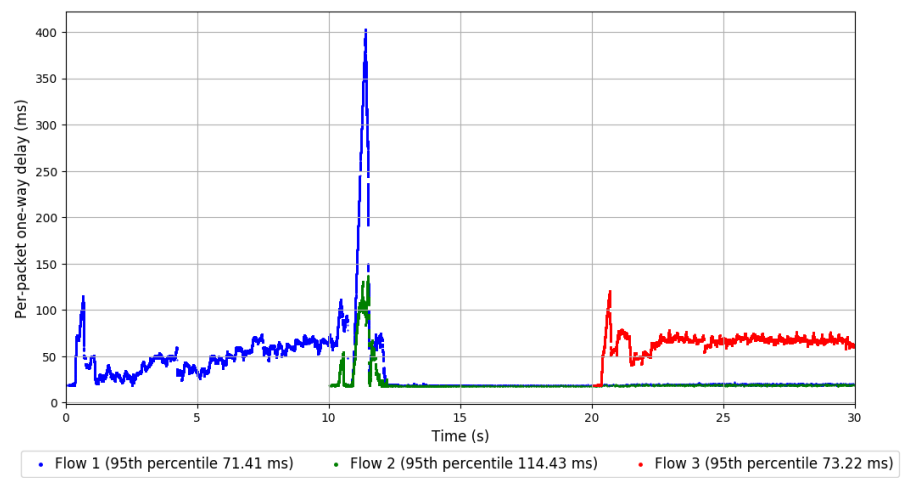
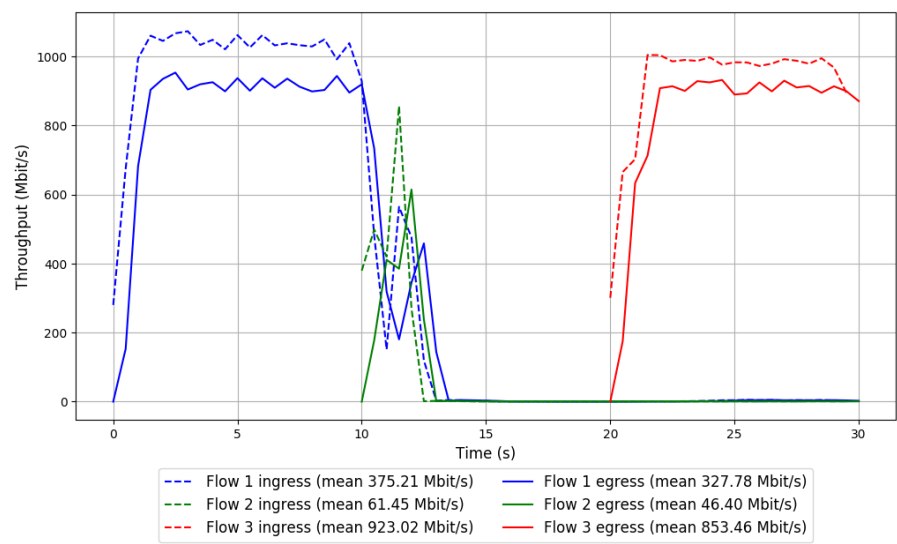
-- Flow 3:

Average throughput: 853.46 Mbit/s

95th percentile per-packet one-way delay: 73.219 ms

Loss rate: 7.52%

Run 9: Report of FillP-Sheep — Data Link

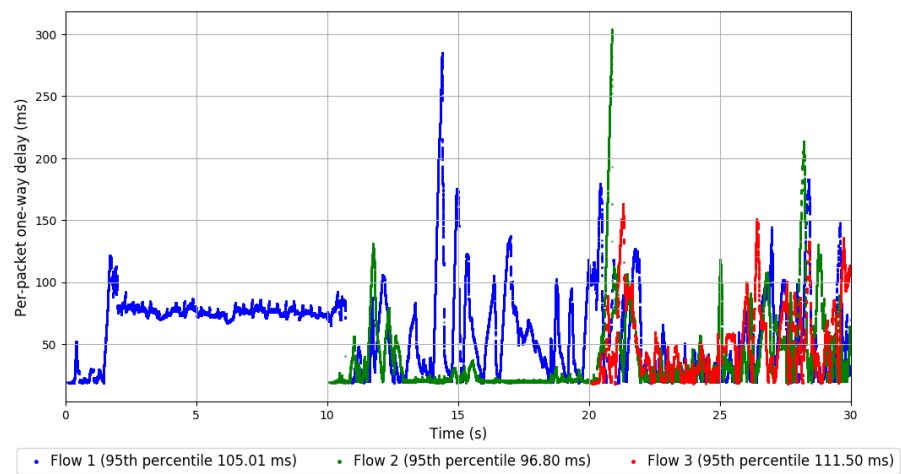
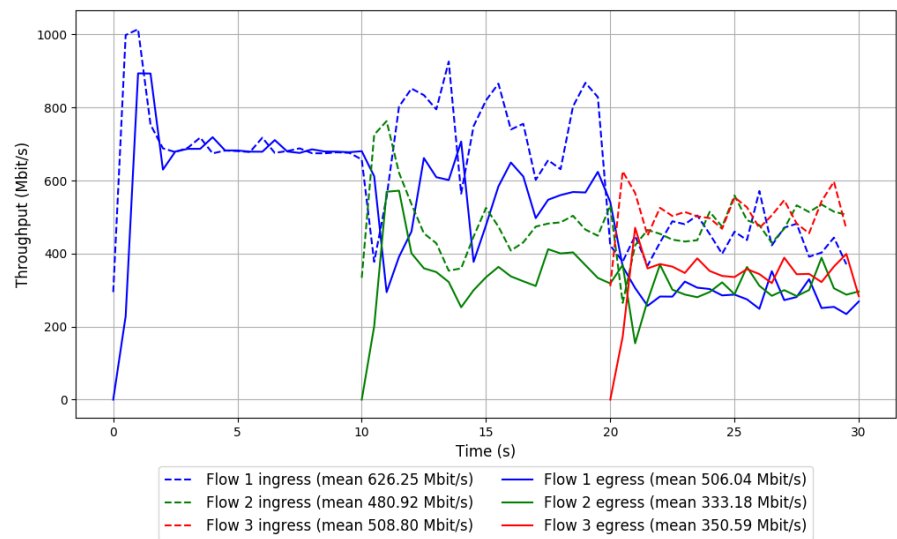


Run 10: Statistics of FillP-Sheep

Start at: 2018-07-03 22:47:50
End at: 2018-07-03 22:48:20
Local clock offset: 0.128 ms
Remote clock offset: -0.577 ms

Below is generated by plot.py at 2018-07-04 00:13:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 844.04 Mbit/s
95th percentile per-packet one-way delay: 104.094 ms
Loss rate: 24.30%
-- Flow 1:
Average throughput: 506.04 Mbit/s
95th percentile per-packet one-way delay: 105.010 ms
Loss rate: 19.20%
-- Flow 2:
Average throughput: 333.18 Mbit/s
95th percentile per-packet one-way delay: 96.795 ms
Loss rate: 30.70%
-- Flow 3:
Average throughput: 350.59 Mbit/s
95th percentile per-packet one-way delay: 111.504 ms
Loss rate: 31.09%

Run 10: Report of FillP-Sheep — Data Link

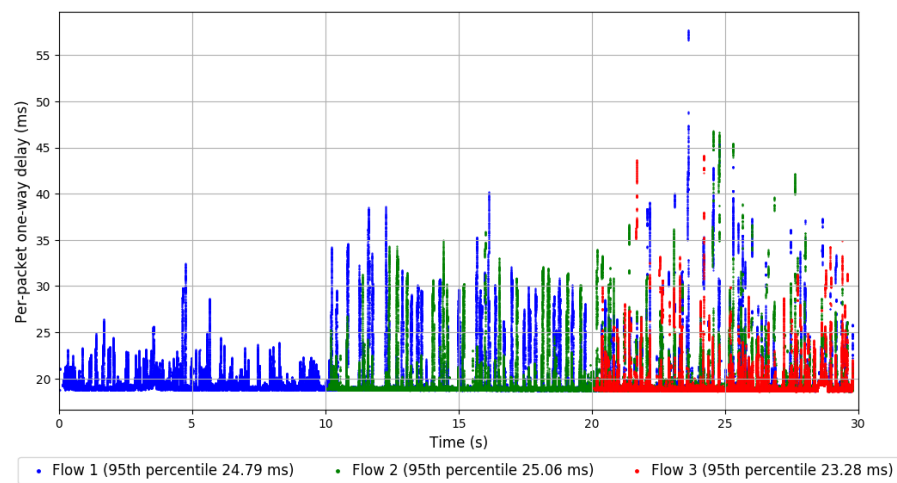
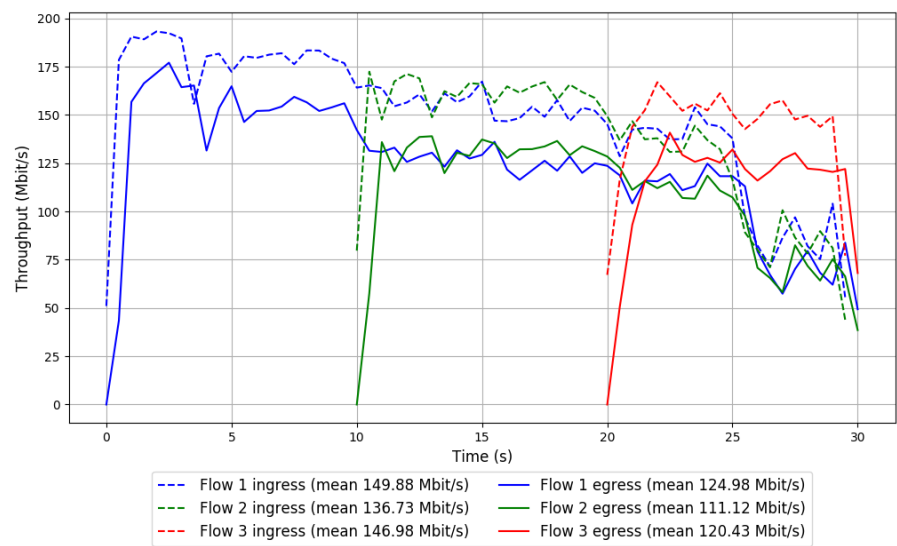


```
Run 1: Statistics of Indigo

Start at: 2018-07-03 18:32:43
End at: 2018-07-03 18:33:13
Local clock offset: 0.482 ms
Remote clock offset: 1.419 ms

# Below is generated by plot.py at 2018-07-04 00:13:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.77 Mbit/s
95th percentile per-packet one-way delay: 24.599 ms
Loss rate: 17.52%
-- Flow 1:
Average throughput: 124.98 Mbit/s
95th percentile per-packet one-way delay: 24.792 ms
Loss rate: 16.61%
-- Flow 2:
Average throughput: 111.12 Mbit/s
95th percentile per-packet one-way delay: 25.057 ms
Loss rate: 18.73%
-- Flow 3:
Average throughput: 120.43 Mbit/s
95th percentile per-packet one-way delay: 23.279 ms
Loss rate: 18.06%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-03 18:59:02

End at: 2018-07-03 18:59:32

Local clock offset: -3.198 ms

Remote clock offset: 4.369 ms

Below is generated by plot.py at 2018-07-04 00:13:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 397.41 Mbit/s

95th percentile per-packet one-way delay: 21.170 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 202.83 Mbit/s

95th percentile per-packet one-way delay: 21.183 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 197.03 Mbit/s

95th percentile per-packet one-way delay: 21.626 ms

Loss rate: 0.00%

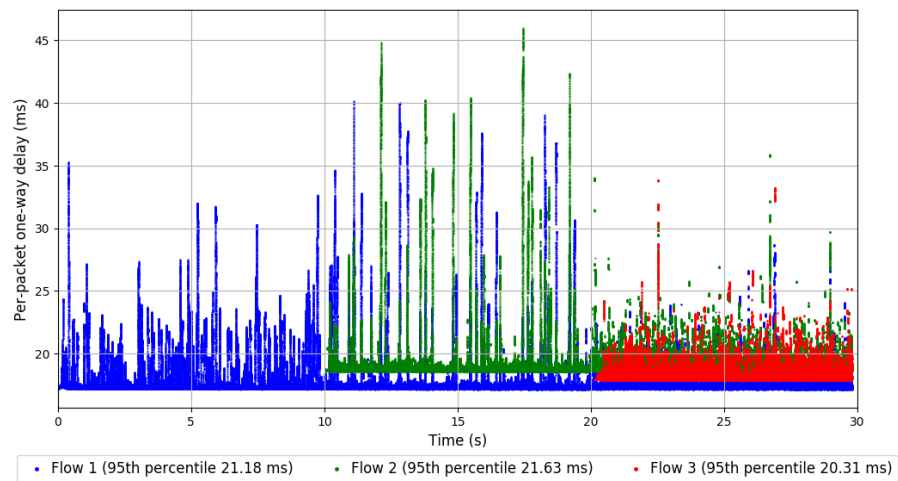
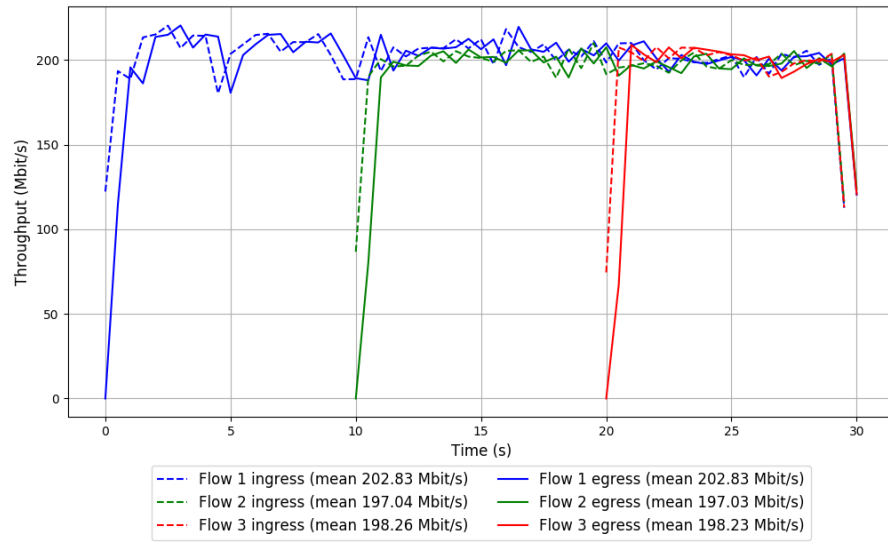
-- Flow 3:

Average throughput: 198.23 Mbit/s

95th percentile per-packet one-way delay: 20.312 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link

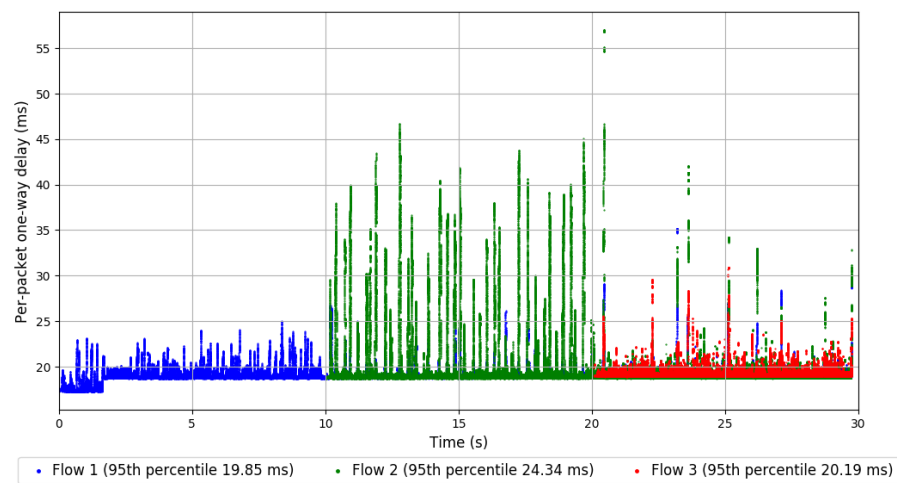
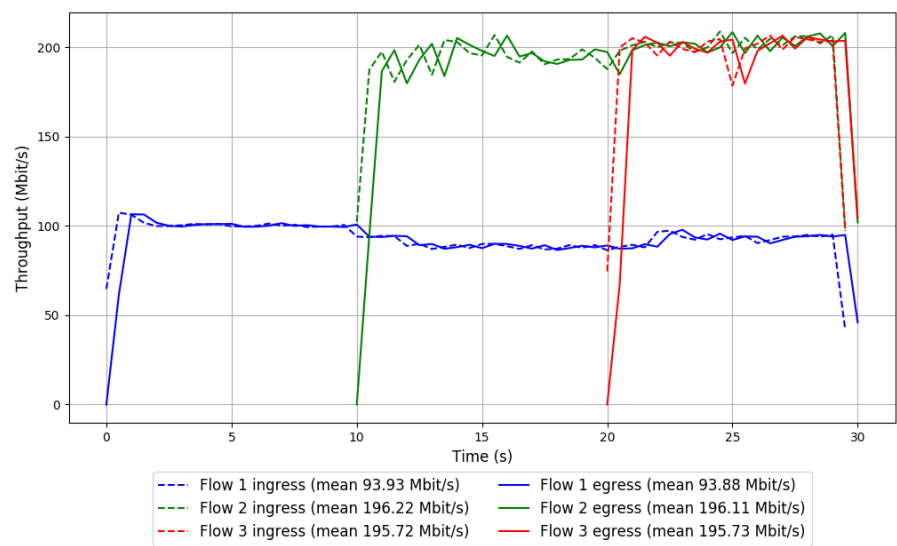


Run 3: Statistics of Indigo

Start at: 2018-07-03 19:26:31
End at: 2018-07-03 19:27:01
Local clock offset: -2.863 ms
Remote clock offset: -0.214 ms

Below is generated by plot.py at 2018-07-04 00:13:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 287.53 Mbit/s
95th percentile per-packet one-way delay: 20.760 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 19.851 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 196.11 Mbit/s
95th percentile per-packet one-way delay: 24.341 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 195.73 Mbit/s
95th percentile per-packet one-way delay: 20.189 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-03 19:53:35

End at: 2018-07-03 19:54:05

Local clock offset: 0.392 ms

Remote clock offset: 1.636 ms

Below is generated by plot.py at 2018-07-04 00:13:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.91 Mbit/s

95th percentile per-packet one-way delay: 21.262 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 199.34 Mbit/s

95th percentile per-packet one-way delay: 21.781 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 198.68 Mbit/s

95th percentile per-packet one-way delay: 20.643 ms

Loss rate: 0.41%

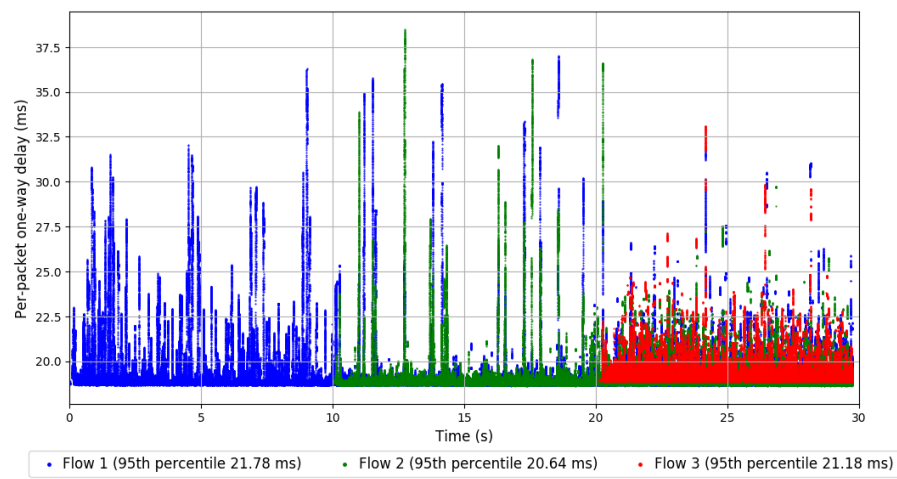
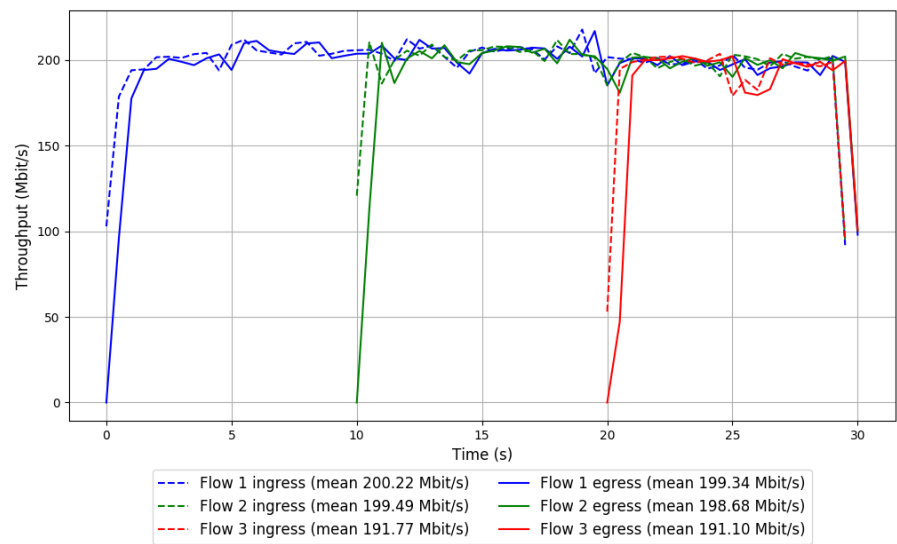
-- Flow 3:

Average throughput: 191.10 Mbit/s

95th percentile per-packet one-way delay: 21.181 ms

Loss rate: 0.35%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-03 20:20:45

End at: 2018-07-03 20:21:15

Local clock offset: 0.928 ms

Remote clock offset: 3.12 ms

Below is generated by plot.py at 2018-07-04 00:13:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 397.56 Mbit/s

95th percentile per-packet one-way delay: 20.933 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 197.06 Mbit/s

95th percentile per-packet one-way delay: 22.792 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 204.38 Mbit/s

95th percentile per-packet one-way delay: 19.615 ms

Loss rate: 0.00%

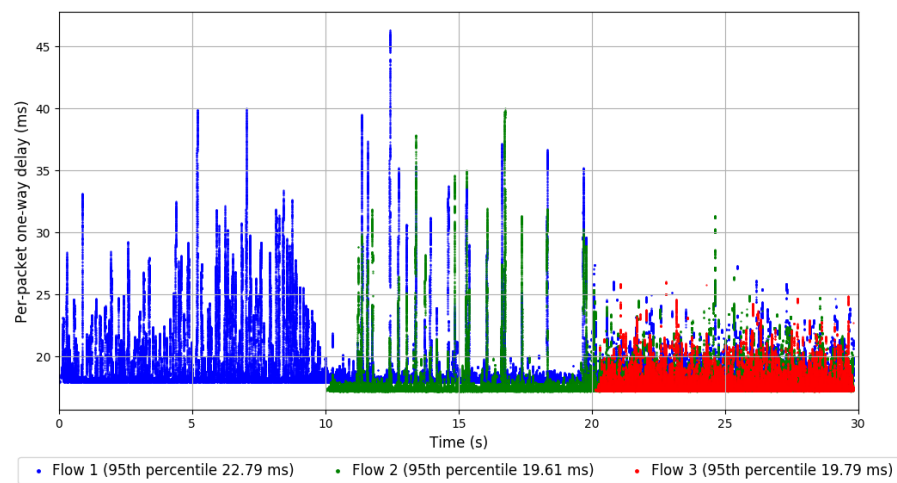
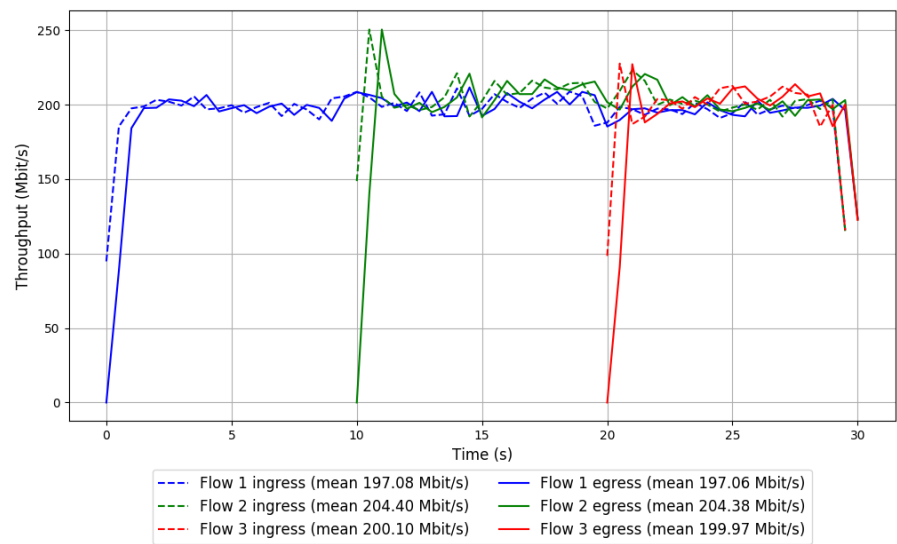
-- Flow 3:

Average throughput: 199.97 Mbit/s

95th percentile per-packet one-way delay: 19.788 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-03 20:47:55

End at: 2018-07-03 20:48:25

Local clock offset: -2.102 ms

Remote clock offset: 3.105 ms

Below is generated by plot.py at 2018-07-04 00:13:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 391.51 Mbit/s

95th percentile per-packet one-way delay: 21.695 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 199.07 Mbit/s

95th percentile per-packet one-way delay: 22.481 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 195.21 Mbit/s

95th percentile per-packet one-way delay: 21.288 ms

Loss rate: 0.37%

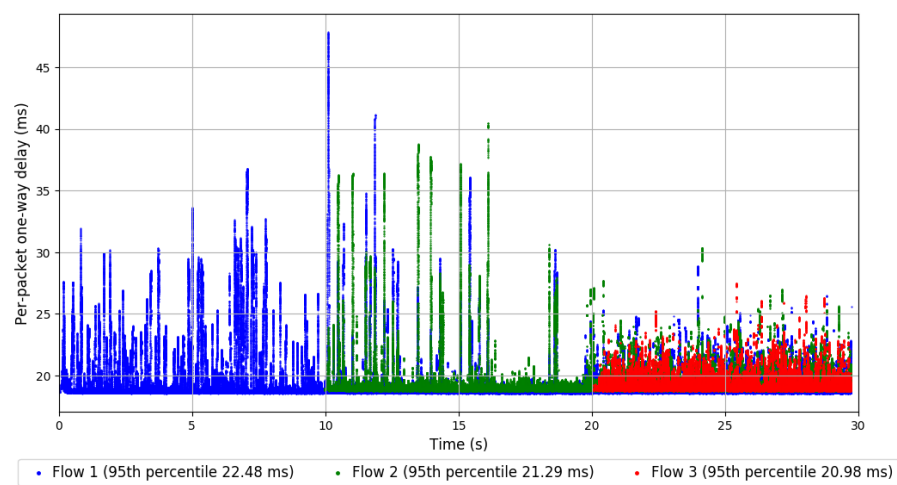
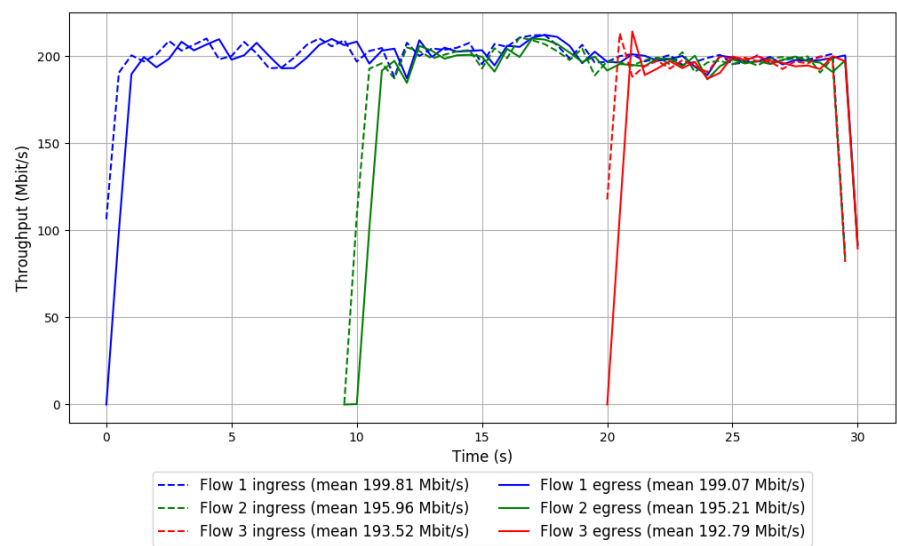
-- Flow 3:

Average throughput: 192.79 Mbit/s

95th percentile per-packet one-way delay: 20.982 ms

Loss rate: 0.37%

Run 6: Report of Indigo — Data Link

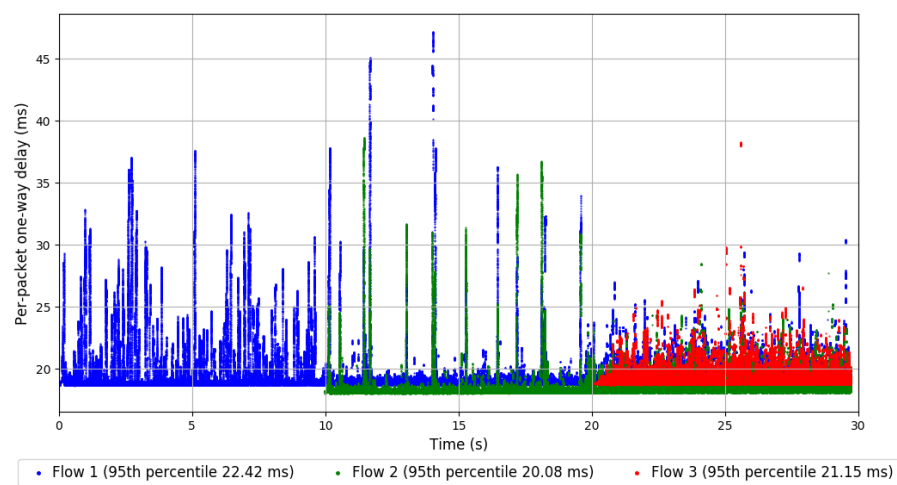
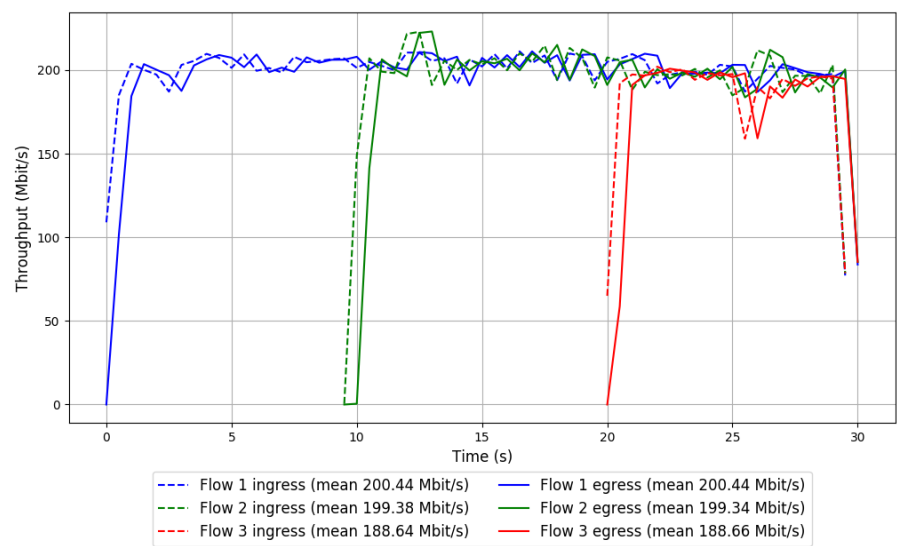


Run 7: Statistics of Indigo

Start at: 2018-07-03 21:14:54
End at: 2018-07-03 21:15:24
Local clock offset: -0.347 ms
Remote clock offset: -0.945 ms

Below is generated by plot.py at 2018-07-04 00:13:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 393.99 Mbit/s
95th percentile per-packet one-way delay: 21.321 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 200.44 Mbit/s
95th percentile per-packet one-way delay: 22.424 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 199.34 Mbit/s
95th percentile per-packet one-way delay: 20.077 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 188.66 Mbit/s
95th percentile per-packet one-way delay: 21.147 ms
Loss rate: 0.02%

Run 7: Report of Indigo — Data Link

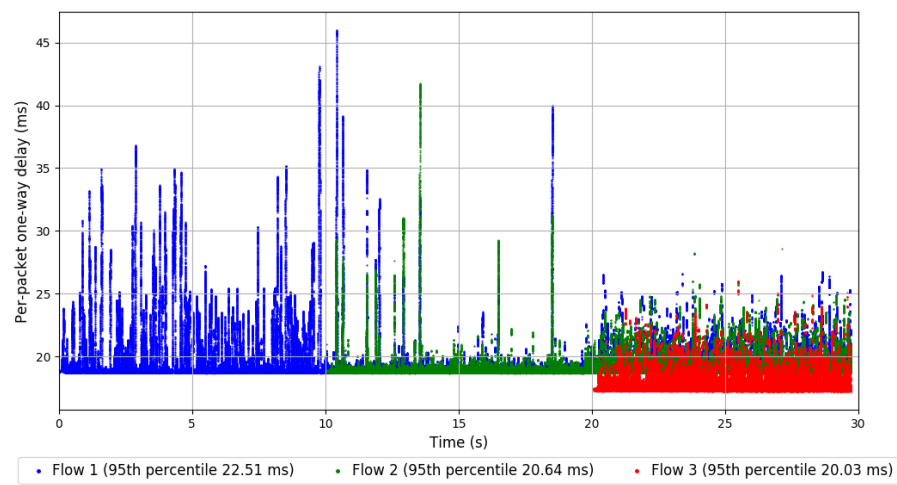
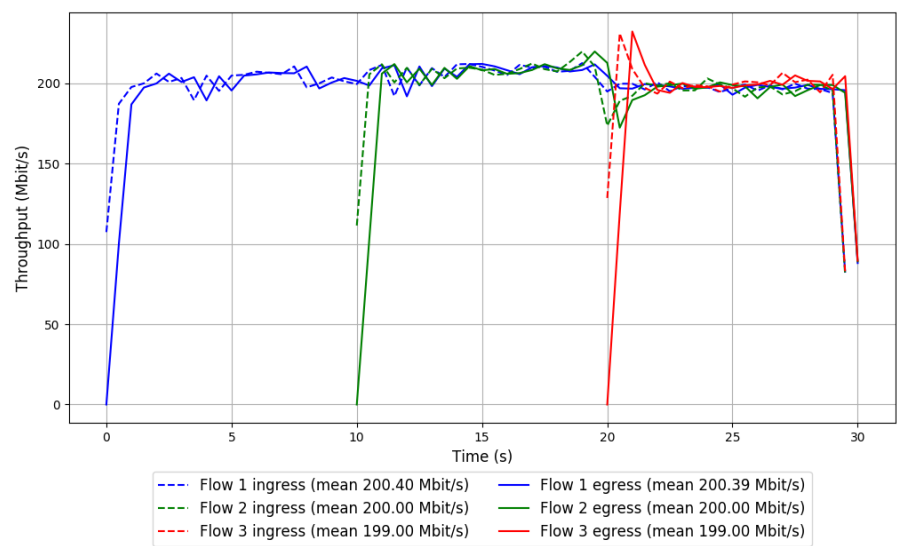


Run 8: Statistics of Indigo

Start at: 2018-07-03 21:41:57
End at: 2018-07-03 21:42:27
Local clock offset: 0.25 ms
Remote clock offset: -0.714 ms

Below is generated by plot.py at 2018-07-04 00:13:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 397.35 Mbit/s
95th percentile per-packet one-way delay: 21.351 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.39 Mbit/s
95th percentile per-packet one-way delay: 22.507 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 200.00 Mbit/s
95th percentile per-packet one-way delay: 20.643 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 199.00 Mbit/s
95th percentile per-packet one-way delay: 20.026 ms
Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-03 22:09:19

End at: 2018-07-03 22:09:49

Local clock offset: 0.102 ms

Remote clock offset: 1.972 ms

Below is generated by plot.py at 2018-07-04 00:13:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 394.99 Mbit/s

95th percentile per-packet one-way delay: 21.675 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 197.84 Mbit/s

95th percentile per-packet one-way delay: 23.377 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 202.10 Mbit/s

95th percentile per-packet one-way delay: 19.625 ms

Loss rate: 0.00%

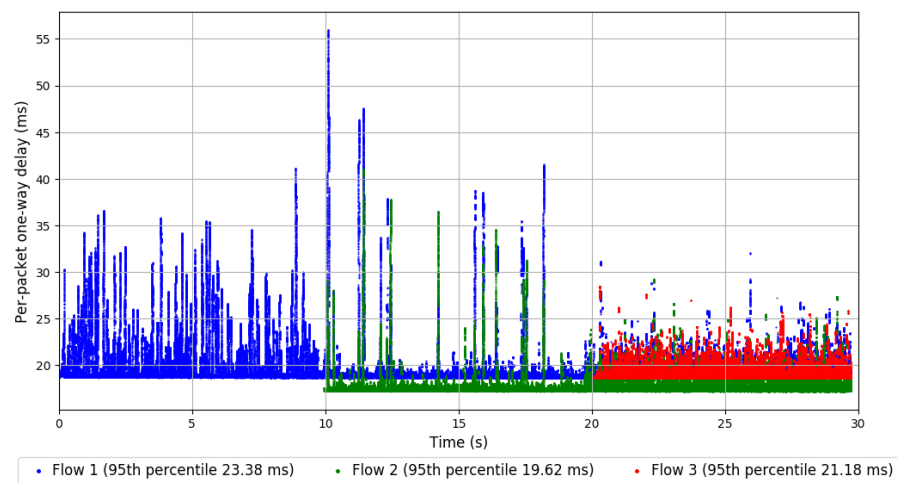
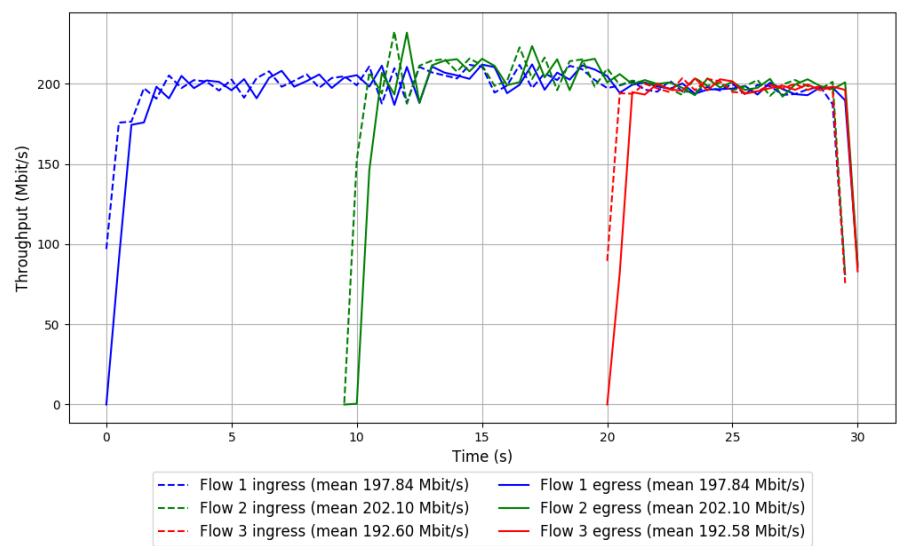
-- Flow 3:

Average throughput: 192.58 Mbit/s

95th percentile per-packet one-way delay: 21.176 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-03 22:36:27

End at: 2018-07-03 22:36:57

Local clock offset: 0.398 ms

Remote clock offset: 2.649 ms

Below is generated by plot.py at 2018-07-04 00:13:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.17 Mbit/s

95th percentile per-packet one-way delay: 21.376 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 200.11 Mbit/s

95th percentile per-packet one-way delay: 21.373 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 198.49 Mbit/s

95th percentile per-packet one-way delay: 21.126 ms

Loss rate: 0.01%

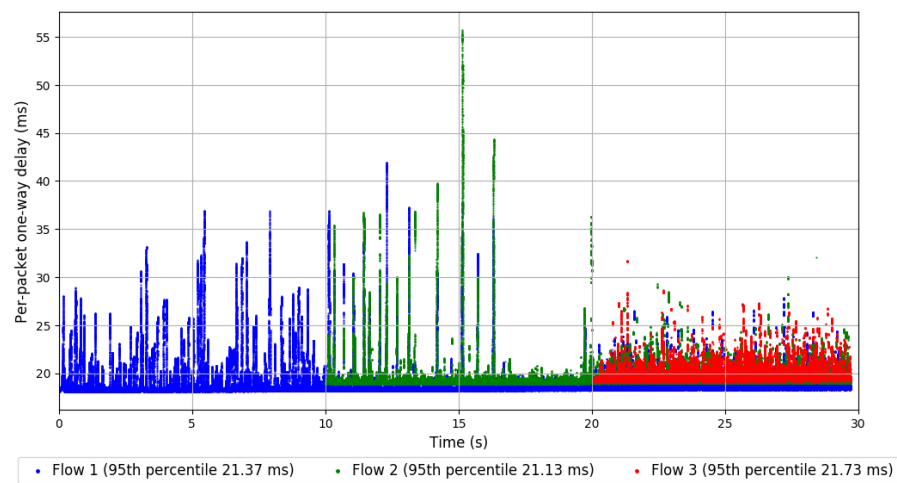
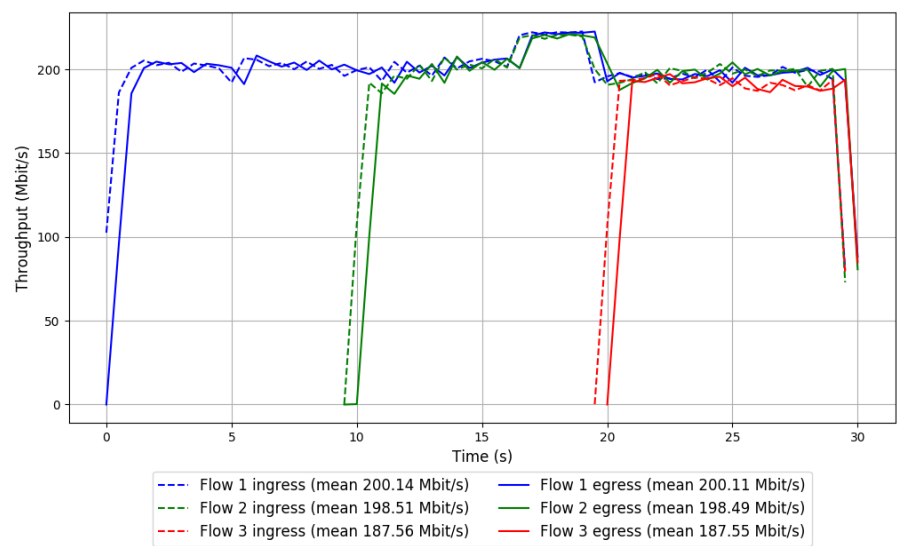
-- Flow 3:

Average throughput: 187.55 Mbit/s

95th percentile per-packet one-way delay: 21.730 ms

Loss rate: 0.02%

Run 10: Report of Indigo — Data Link

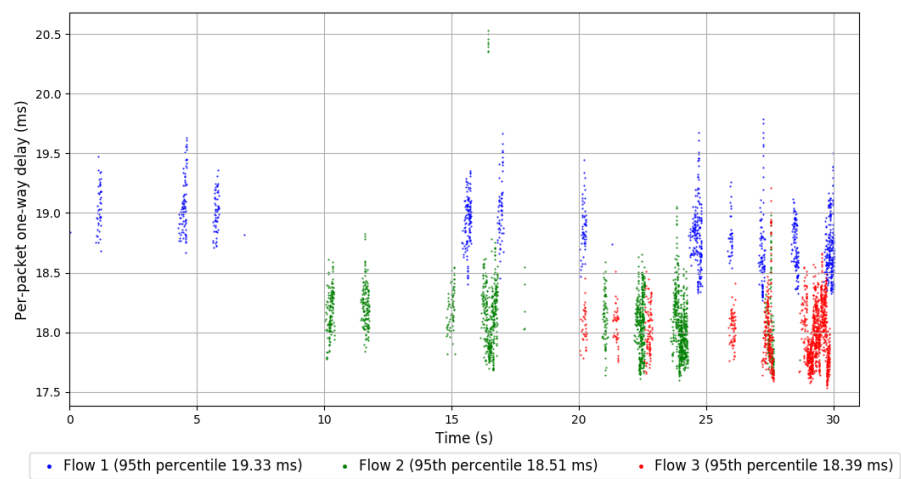
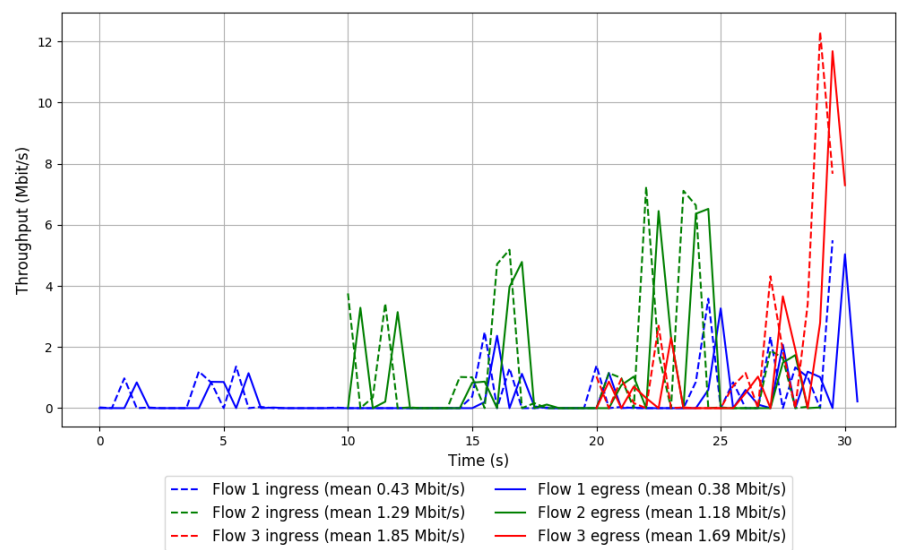


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-03 18:35:32
End at: 2018-07-03 18:36:02
Local clock offset: -0.178 ms
Remote clock offset: 1.648 ms

# Below is generated by plot.py at 2018-07-04 00:13:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 19.071 ms
Loss rate: 9.38%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 19.326 ms
Loss rate: 10.93%
-- Flow 2:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 18.509 ms
Loss rate: 8.86%
-- Flow 3:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 18.387 ms
Loss rate: 8.97%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-03 19:02:35

End at: 2018-07-03 19:03:05

Local clock offset: -3.361 ms

Remote clock offset: 4.555 ms

Below is generated by plot.py at 2018-07-04 00:14:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 446.20 Mbit/s

95th percentile per-packet one-way delay: 19.409 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 262.19 Mbit/s

95th percentile per-packet one-way delay: 19.492 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 196.72 Mbit/s

95th percentile per-packet one-way delay: 18.848 ms

Loss rate: 0.02%

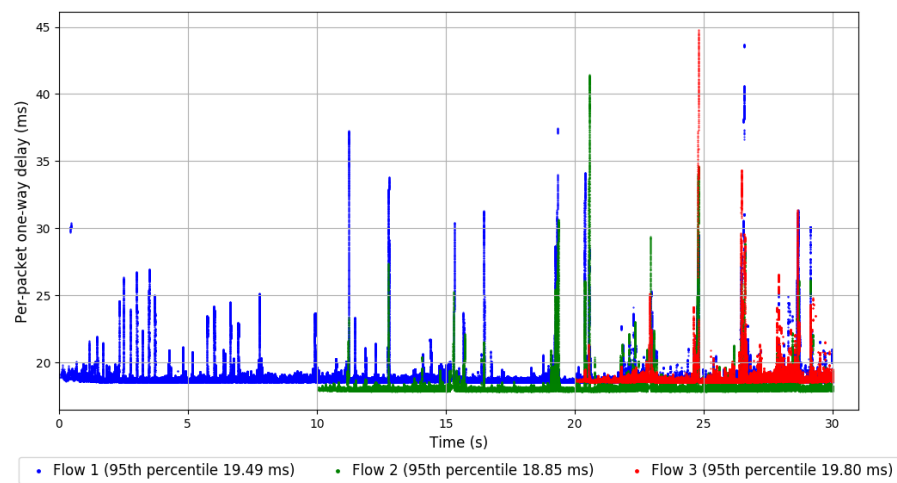
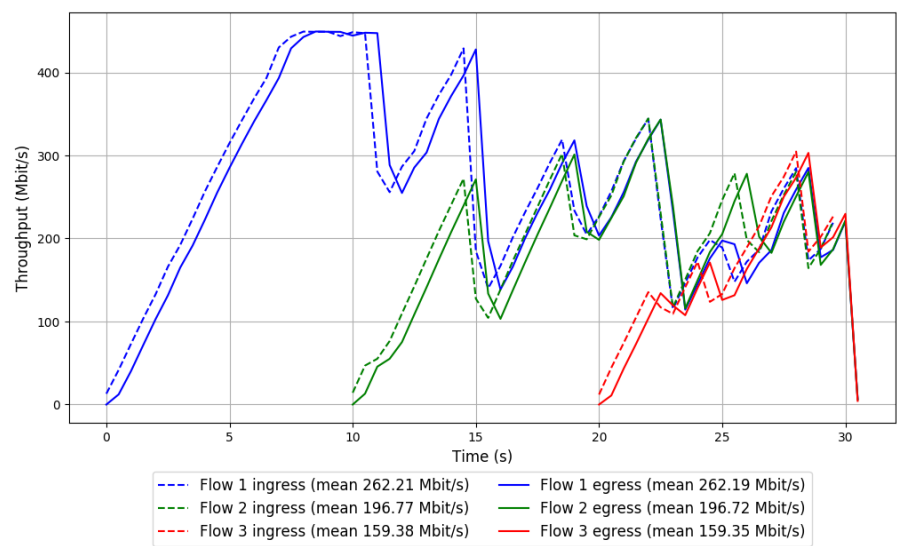
-- Flow 3:

Average throughput: 159.35 Mbit/s

95th percentile per-packet one-way delay: 19.801 ms

Loss rate: 0.02%

Run 2: Report of LEDBAT — Data Link

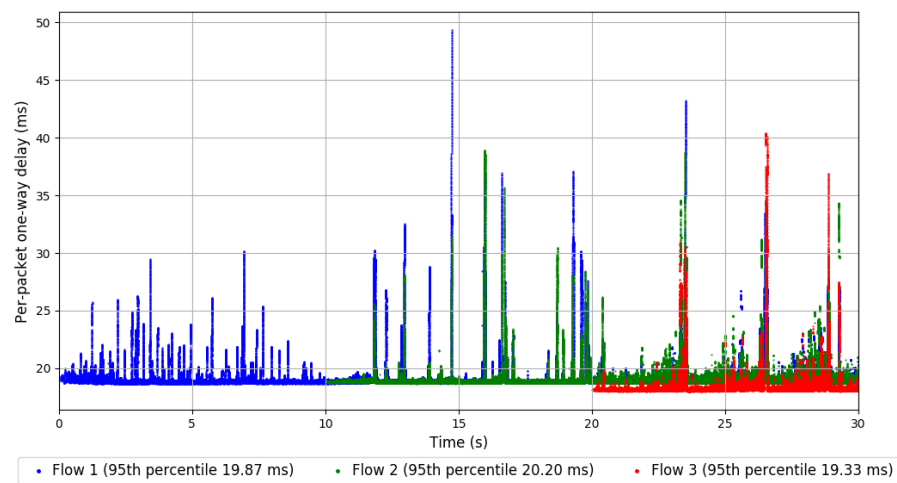
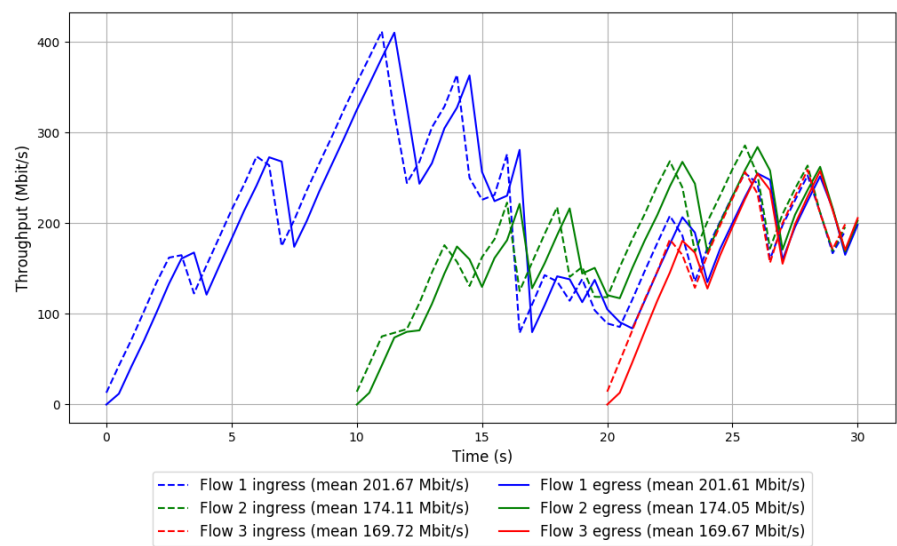


Run 3: Statistics of LEDBAT

Start at: 2018-07-03 19:29:56
End at: 2018-07-03 19:30:26
Local clock offset: -2.793 ms
Remote clock offset: -0.537 ms

Below is generated by plot.py at 2018-07-04 00:14:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 374.06 Mbit/s
95th percentile per-packet one-way delay: 19.934 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 201.61 Mbit/s
95th percentile per-packet one-way delay: 19.870 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 174.05 Mbit/s
95th percentile per-packet one-way delay: 20.201 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 169.67 Mbit/s
95th percentile per-packet one-way delay: 19.331 ms
Loss rate: 0.03%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-03 19:57:04

End at: 2018-07-03 19:57:34

Local clock offset: 0.67 ms

Remote clock offset: 2.179 ms

Below is generated by plot.py at 2018-07-04 00:14:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 379.89 Mbit/s

95th percentile per-packet one-way delay: 19.457 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 209.51 Mbit/s

95th percentile per-packet one-way delay: 18.532 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 196.53 Mbit/s

95th percentile per-packet one-way delay: 19.770 ms

Loss rate: 0.03%

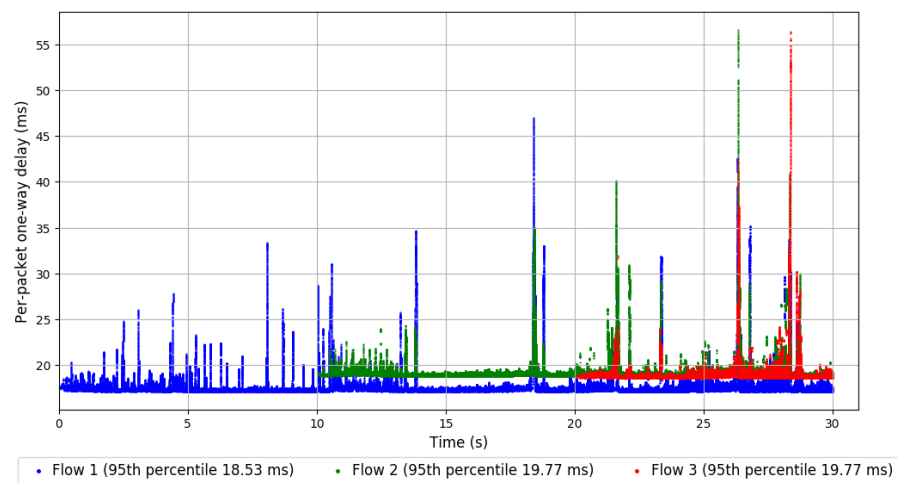
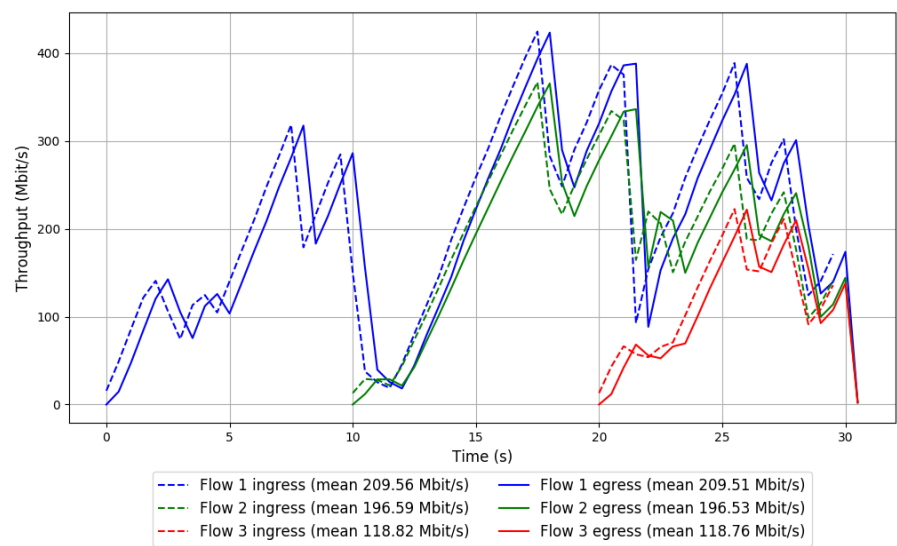
-- Flow 3:

Average throughput: 118.76 Mbit/s

95th percentile per-packet one-way delay: 19.765 ms

Loss rate: 0.05%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-03 20:24:16

End at: 2018-07-03 20:24:46

Local clock offset: 0.973 ms

Remote clock offset: 3.105 ms

Below is generated by plot.py at 2018-07-04 00:14:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.82 Mbit/s

95th percentile per-packet one-way delay: 19.730 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 189.57 Mbit/s

95th percentile per-packet one-way delay: 19.160 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 133.41 Mbit/s

95th percentile per-packet one-way delay: 20.939 ms

Loss rate: 0.03%

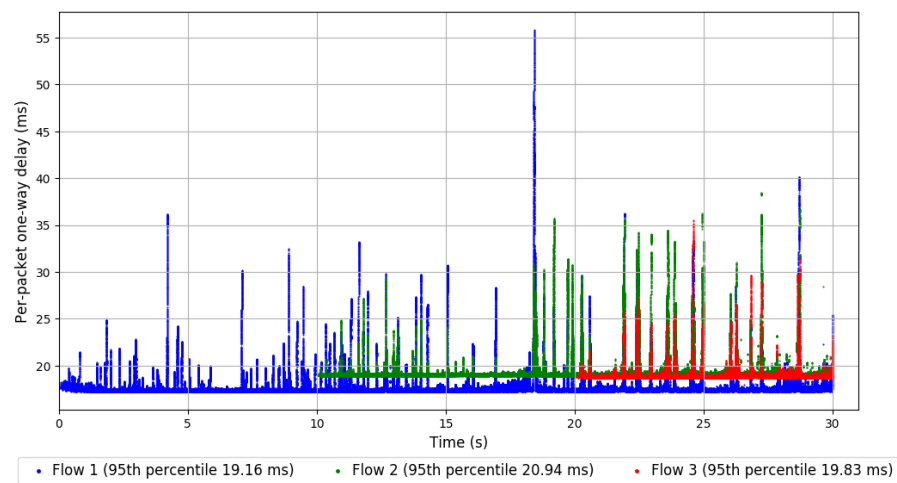
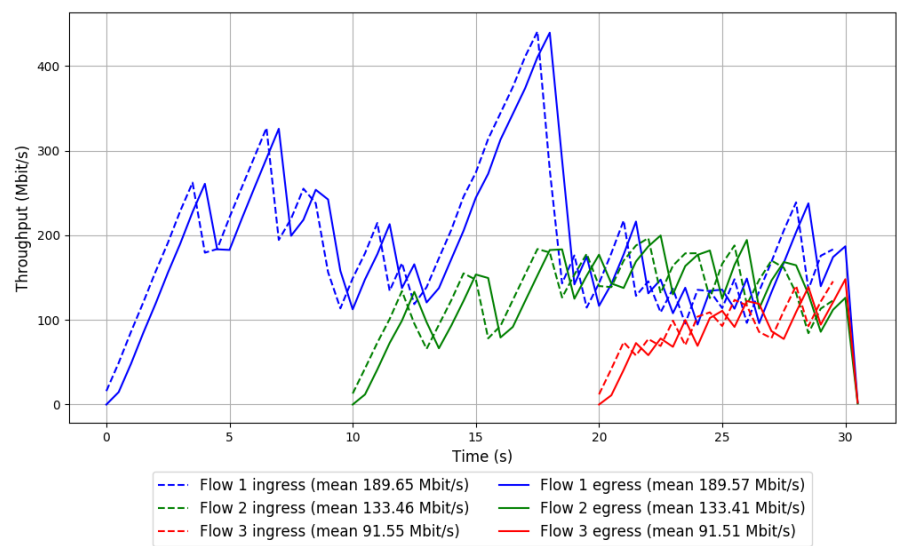
-- Flow 3:

Average throughput: 91.51 Mbit/s

95th percentile per-packet one-way delay: 19.834 ms

Loss rate: 0.04%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-03 20:51:21

End at: 2018-07-03 20:51:51

Local clock offset: -2.422 ms

Remote clock offset: 3.131 ms

Below is generated by plot.py at 2018-07-04 00:14:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.83 Mbit/s

95th percentile per-packet one-way delay: 20.518 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 20.367 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 58.46 Mbit/s

95th percentile per-packet one-way delay: 20.603 ms

Loss rate: 0.23%

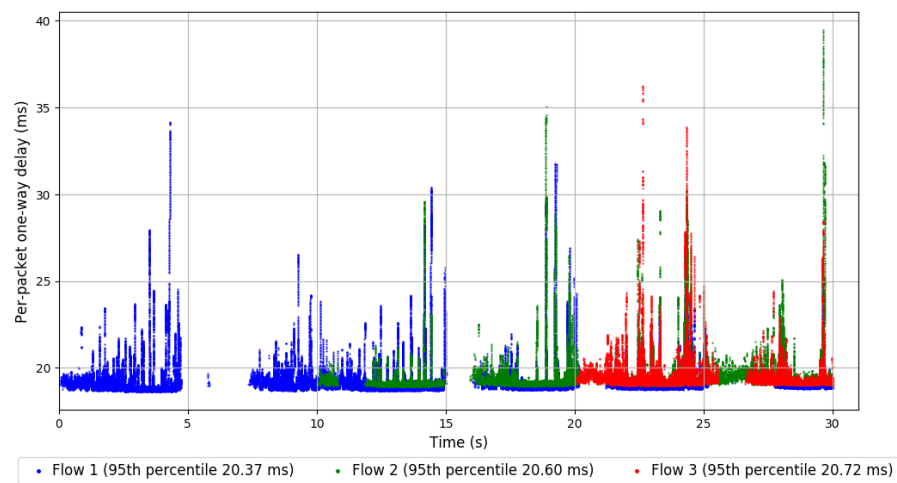
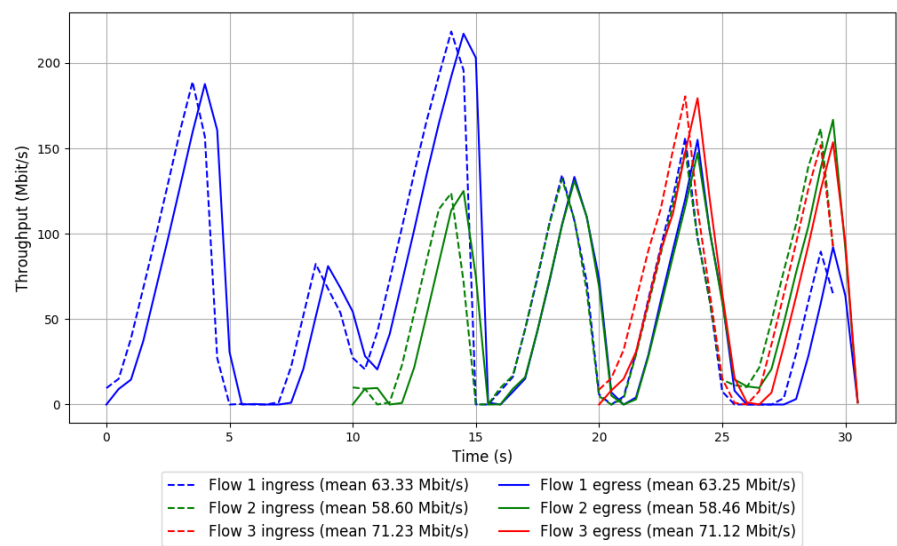
-- Flow 3:

Average throughput: 71.12 Mbit/s

95th percentile per-packet one-way delay: 20.723 ms

Loss rate: 0.16%

Run 6: Report of LEDBAT — Data Link

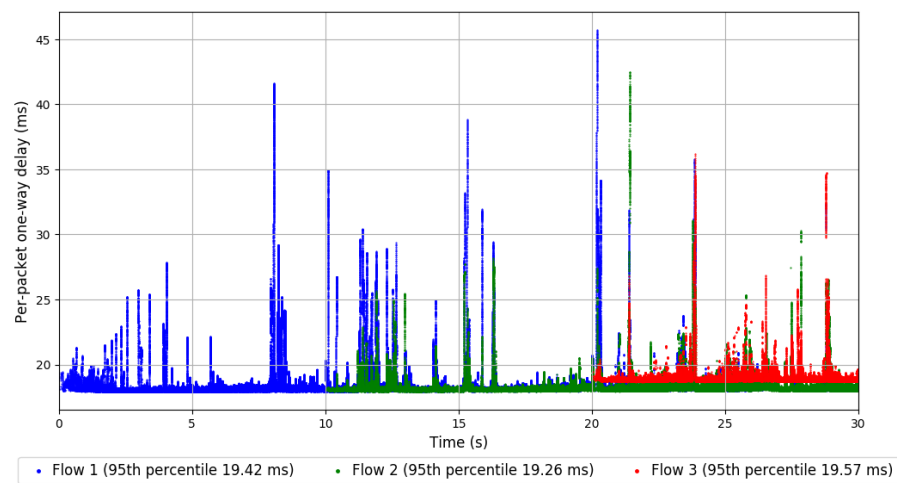
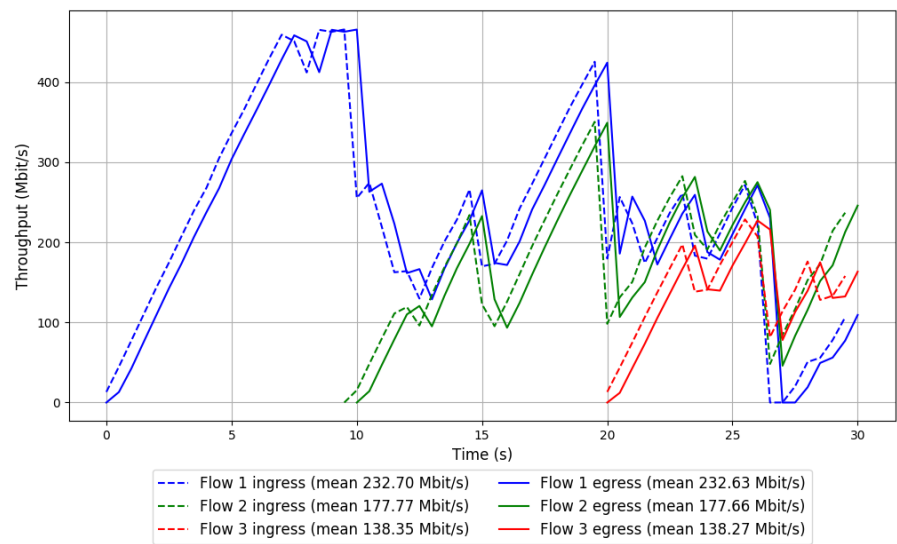


Run 7: Statistics of LEDBAT

Start at: 2018-07-03 21:18:21
End at: 2018-07-03 21:18:51
Local clock offset: -0.002 ms
Remote clock offset: -1.154 ms

Below is generated by plot.py at 2018-07-04 00:16:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 397.04 Mbit/s
95th percentile per-packet one-way delay: 19.414 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 232.63 Mbit/s
95th percentile per-packet one-way delay: 19.419 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 177.66 Mbit/s
95th percentile per-packet one-way delay: 19.262 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 138.27 Mbit/s
95th percentile per-packet one-way delay: 19.573 ms
Loss rate: 0.06%

Run 7: Report of LEDBAT — Data Link

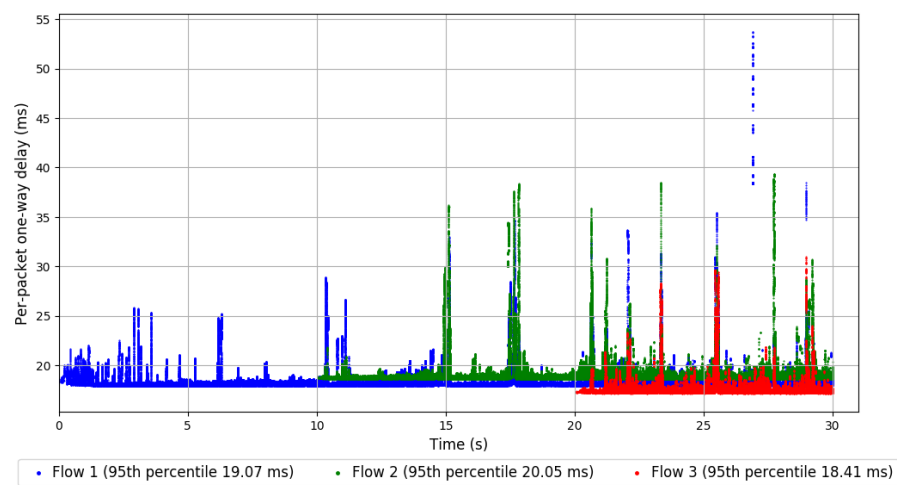
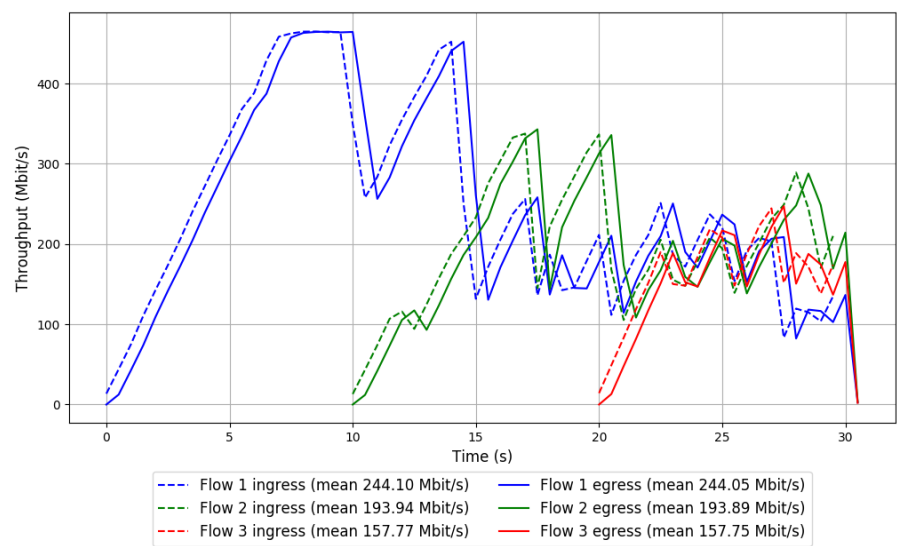


Run 8: Statistics of LEDBAT

Start at: 2018-07-03 21:45:29
End at: 2018-07-03 21:45:59
Local clock offset: 0.257 ms
Remote clock offset: -0.688 ms

Below is generated by plot.py at 2018-07-04 00:17:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 425.57 Mbit/s
95th percentile per-packet one-way delay: 19.386 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 244.05 Mbit/s
95th percentile per-packet one-way delay: 19.067 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 193.89 Mbit/s
95th percentile per-packet one-way delay: 20.052 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 157.75 Mbit/s
95th percentile per-packet one-way delay: 18.415 ms
Loss rate: 0.01%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-03 22:12:46

End at: 2018-07-03 22:13:16

Local clock offset: 0.261 ms

Remote clock offset: 2.512 ms

Below is generated by plot.py at 2018-07-04 00:17:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.21 Mbit/s

95th percentile per-packet one-way delay: 19.855 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 204.65 Mbit/s

95th percentile per-packet one-way delay: 19.958 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 171.66 Mbit/s

95th percentile per-packet one-way delay: 19.804 ms

Loss rate: 0.05%

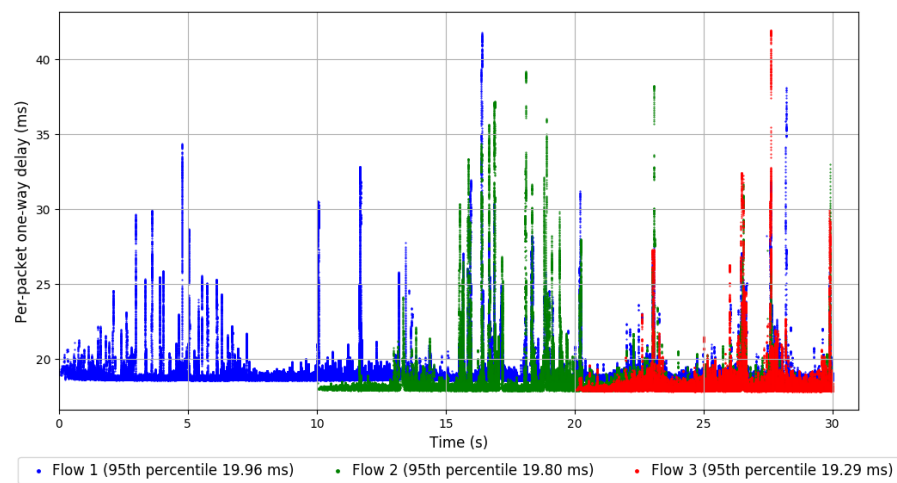
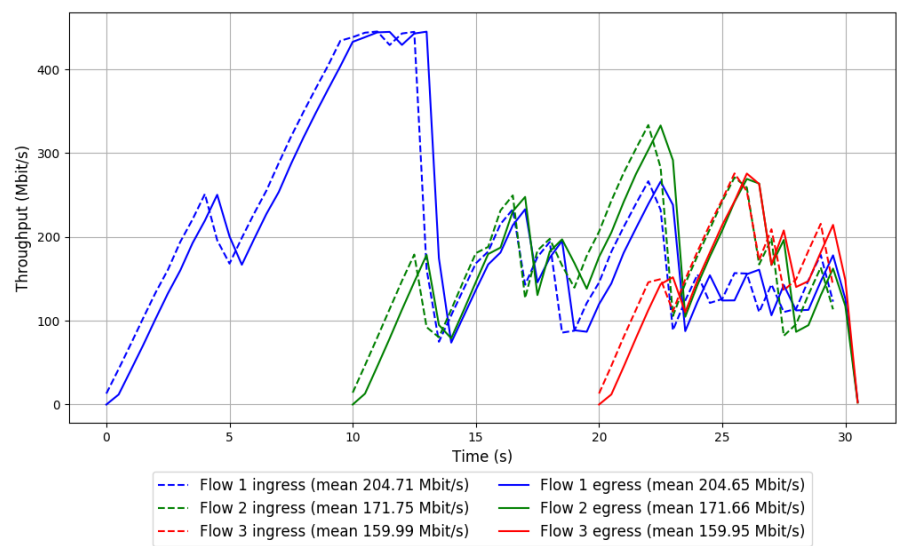
-- Flow 3:

Average throughput: 159.95 Mbit/s

95th percentile per-packet one-way delay: 19.290 ms

Loss rate: 0.02%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-03 22:39:52

End at: 2018-07-03 22:40:22

Local clock offset: 0.321 ms

Remote clock offset: 1.272 ms

Below is generated by plot.py at 2018-07-04 00:18:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 409.12 Mbit/s

95th percentile per-packet one-way delay: 20.072 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 257.15 Mbit/s

95th percentile per-packet one-way delay: 20.097 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 154.72 Mbit/s

95th percentile per-packet one-way delay: 20.165 ms

Loss rate: 0.05%

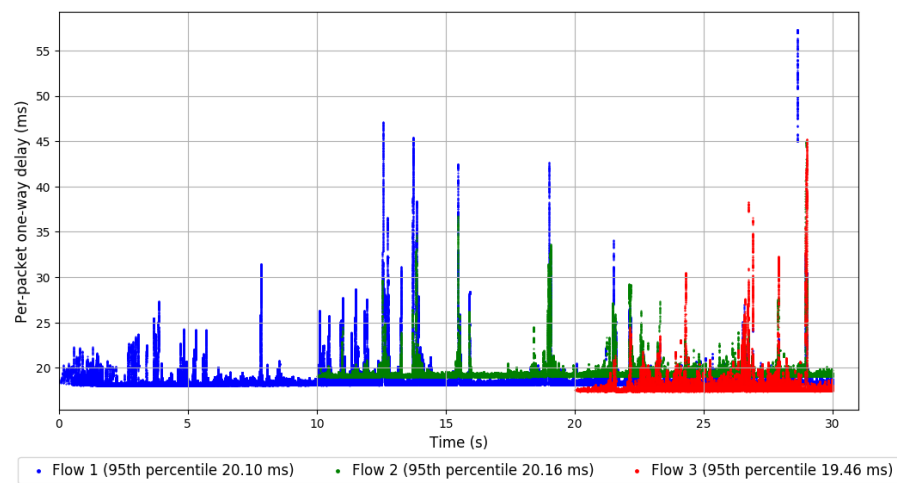
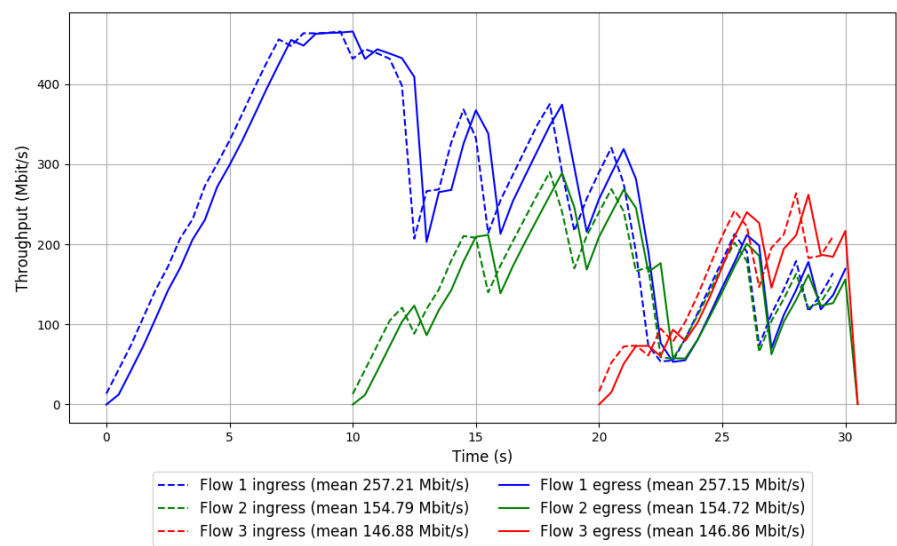
-- Flow 3:

Average throughput: 146.86 Mbit/s

95th percentile per-packet one-way delay: 19.460 ms

Loss rate: 0.01%

Run 10: Report of LEDBAT — Data Link

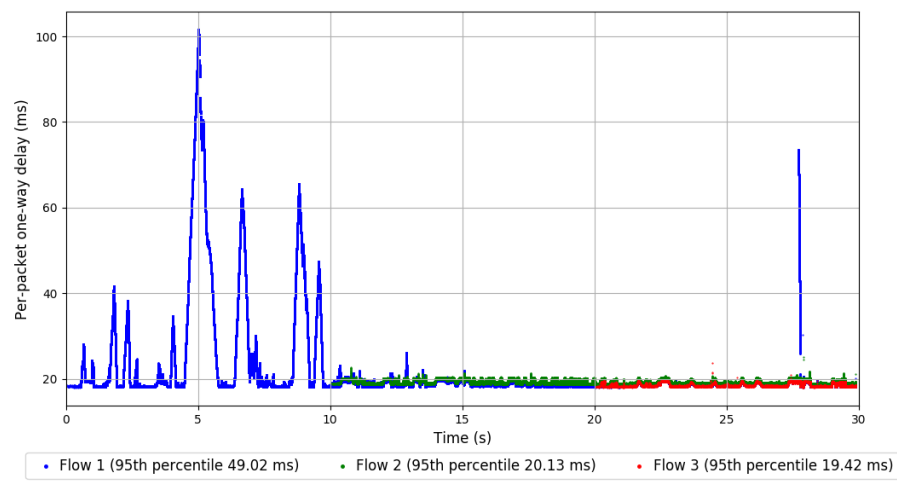
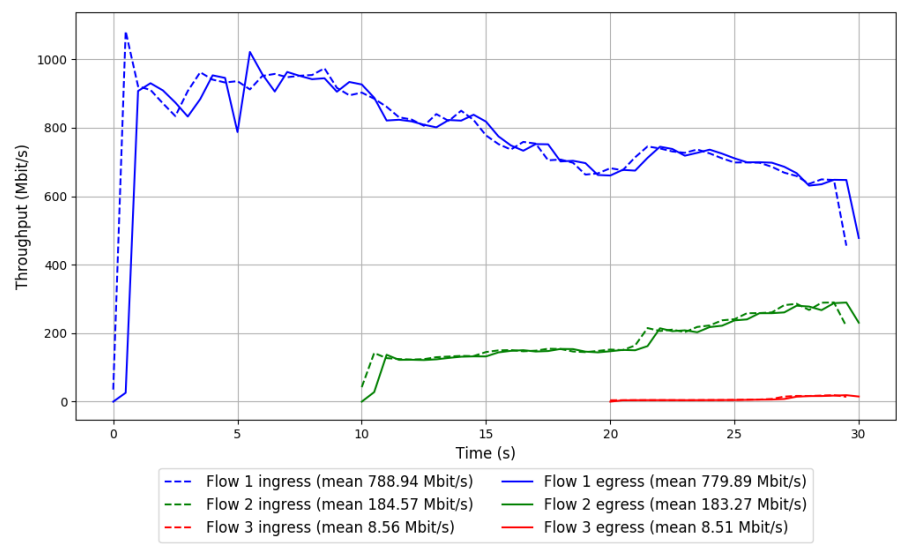


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-03 18:29:46
End at: 2018-07-03 18:30:16
Local clock offset: 0.461 ms
Remote clock offset: 1.179 ms

# Below is generated by plot.py at 2018-07-04 00:24:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 904.56 Mbit/s
95th percentile per-packet one-way delay: 45.754 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 779.89 Mbit/s
95th percentile per-packet one-way delay: 49.015 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 183.27 Mbit/s
95th percentile per-packet one-way delay: 20.126 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 19.419 ms
Loss rate: 0.54%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-03 18:56:04

End at: 2018-07-03 18:56:34

Local clock offset: -3.038 ms

Remote clock offset: 4.058 ms

Below is generated by plot.py at 2018-07-04 00:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 889.14 Mbit/s

95th percentile per-packet one-way delay: 19.680 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 771.27 Mbit/s

95th percentile per-packet one-way delay: 19.727 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 132.77 Mbit/s

95th percentile per-packet one-way delay: 19.214 ms

Loss rate: 0.24%

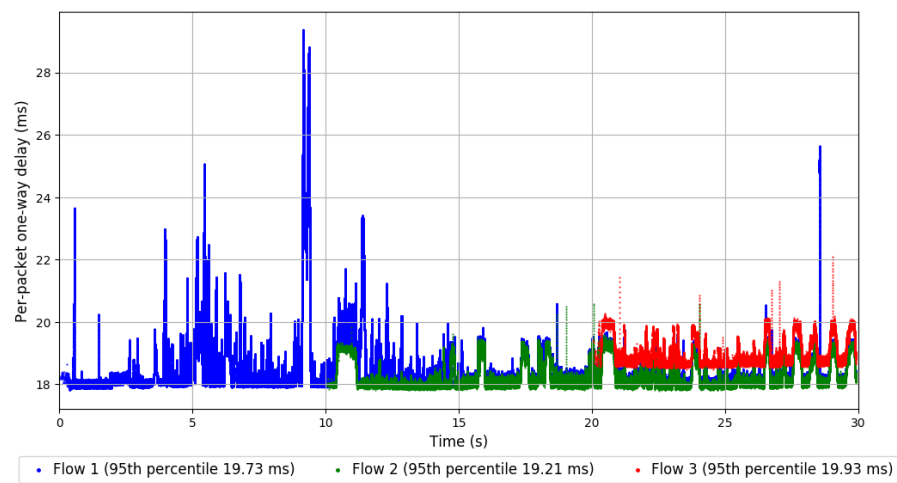
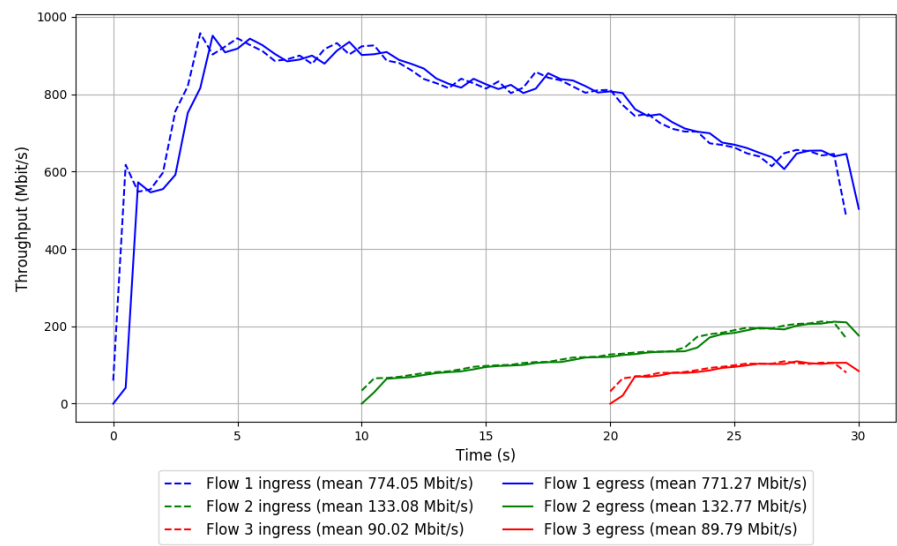
-- Flow 3:

Average throughput: 89.79 Mbit/s

95th percentile per-packet one-way delay: 19.926 ms

Loss rate: 0.27%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-03 19:23:33

End at: 2018-07-03 19:24:03

Local clock offset: -2.778 ms

Remote clock offset: 0.217 ms

Below is generated by plot.py at 2018-07-04 00:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 870.06 Mbit/s

95th percentile per-packet one-way delay: 37.045 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 829.67 Mbit/s

95th percentile per-packet one-way delay: 39.582 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 10.03 Mbit/s

95th percentile per-packet one-way delay: 19.419 ms

Loss rate: 0.35%

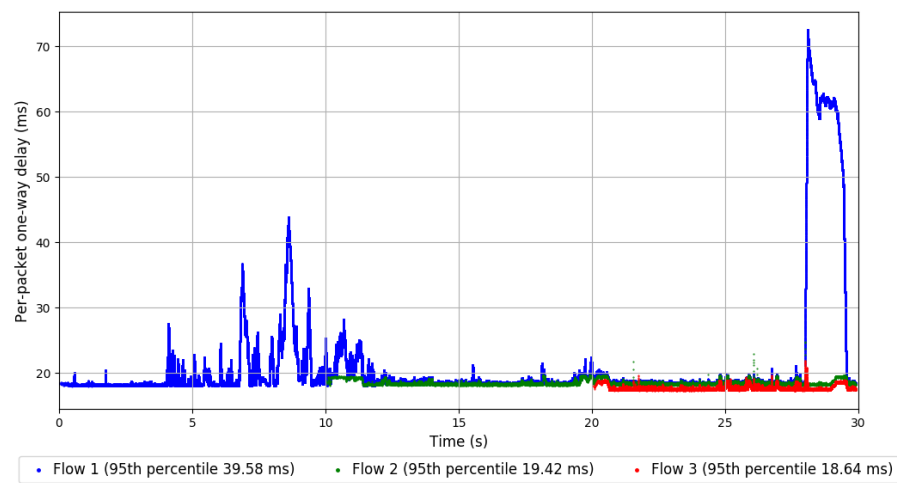
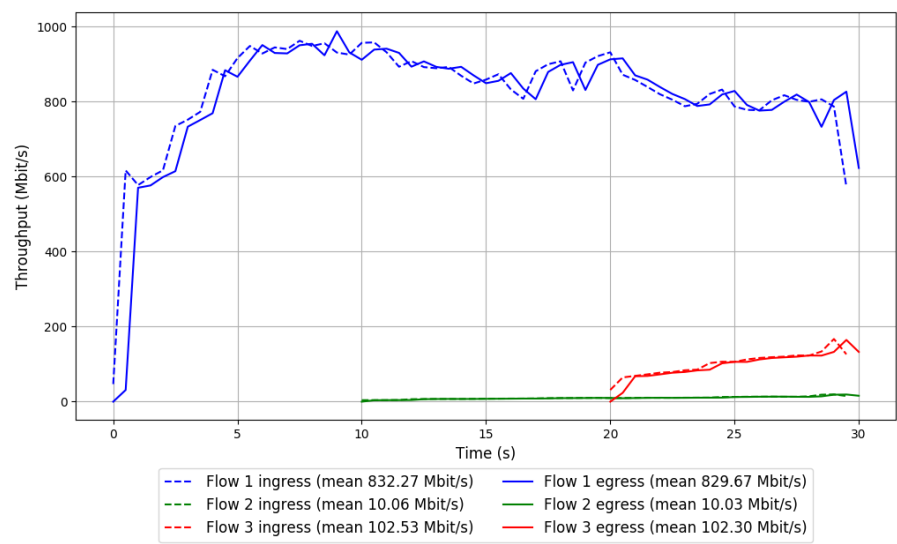
-- Flow 3:

Average throughput: 102.30 Mbit/s

95th percentile per-packet one-way delay: 18.644 ms

Loss rate: 0.23%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-03 19:50:36

End at: 2018-07-03 19:51:06

Local clock offset: 0.293 ms

Remote clock offset: 1.079 ms

Below is generated by plot.py at 2018-07-04 00:25:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 909.54 Mbit/s

95th percentile per-packet one-way delay: 20.559 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 811.74 Mbit/s

95th percentile per-packet one-way delay: 20.774 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 19.286 ms

Loss rate: 0.44%

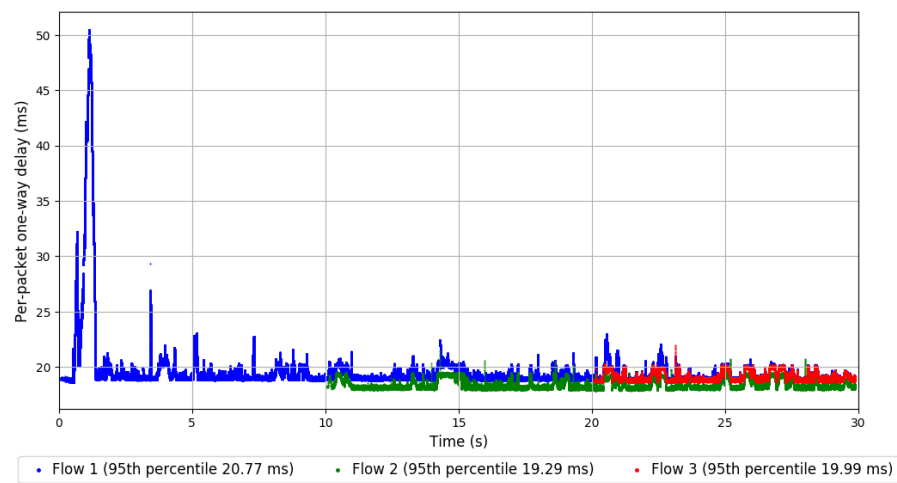
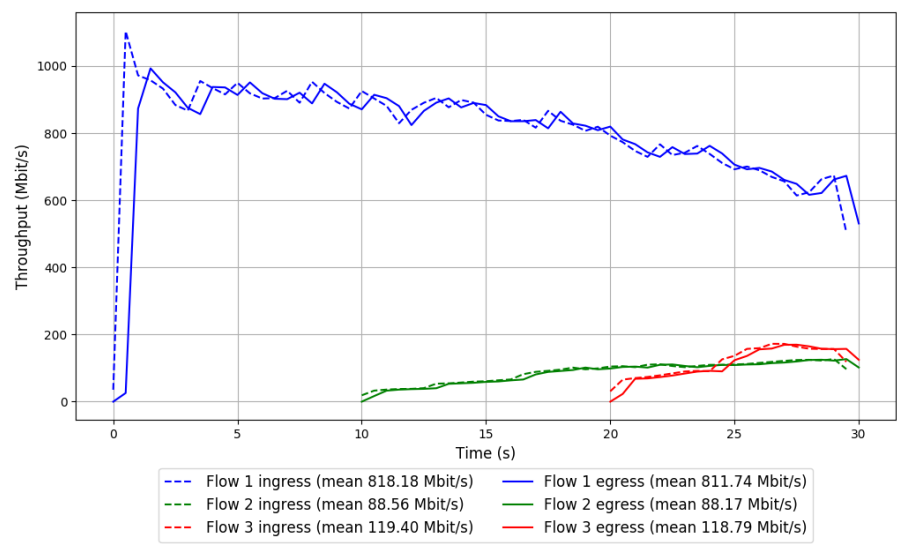
-- Flow 3:

Average throughput: 118.79 Mbit/s

95th percentile per-packet one-way delay: 19.992 ms

Loss rate: 0.53%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-03 20:17:47

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

Local clock offset: 0.87 ms

Remote clock offset: 3.214 ms

Below is generated by plot.py at 2018-07-04 00:27:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 889.27 Mbit/s

95th percentile per-packet one-way delay: 18.861 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 834.47 Mbit/s

95th percentile per-packet one-way delay: 18.818 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 42.92 Mbit/s

95th percentile per-packet one-way delay: 19.381 ms

Loss rate: 0.82%

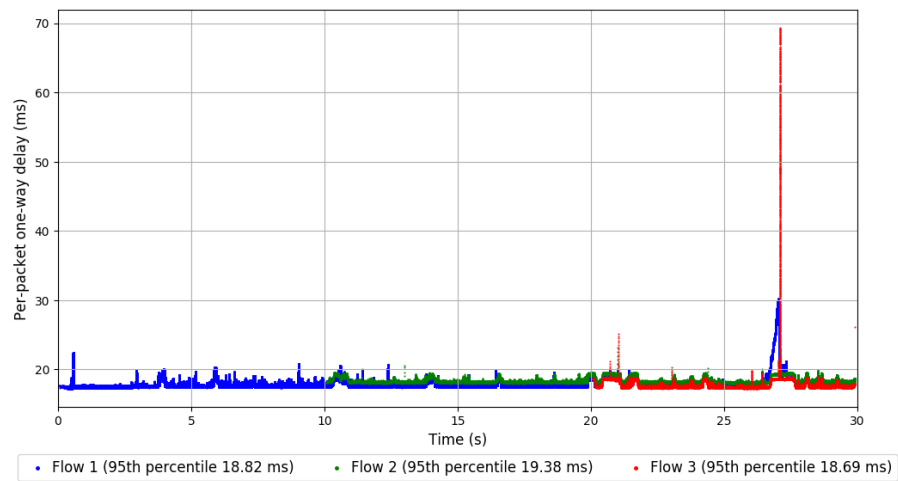
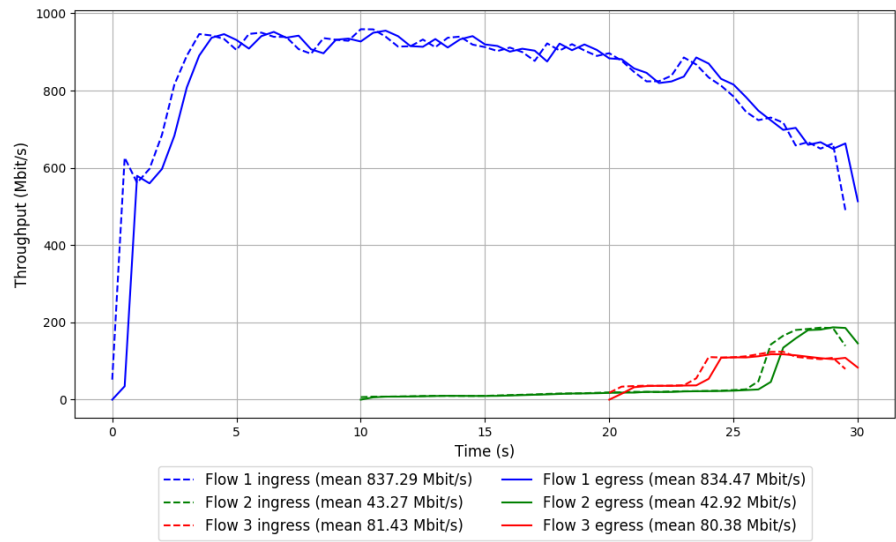
-- Flow 3:

Average throughput: 80.38 Mbit/s

95th percentile per-packet one-way delay: 18.692 ms

Loss rate: 1.22%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-03 20:44:58

End at: 2018-07-03 20:45:28

Local clock offset: -1.761 ms

Remote clock offset: 3.065 ms

Below is generated by plot.py at 2018-07-04 00:27:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 846.48 Mbit/s

95th percentile per-packet one-way delay: 20.088 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 790.16 Mbit/s

95th percentile per-packet one-way delay: 20.095 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 64.71 Mbit/s

95th percentile per-packet one-way delay: 19.969 ms

Loss rate: 0.70%

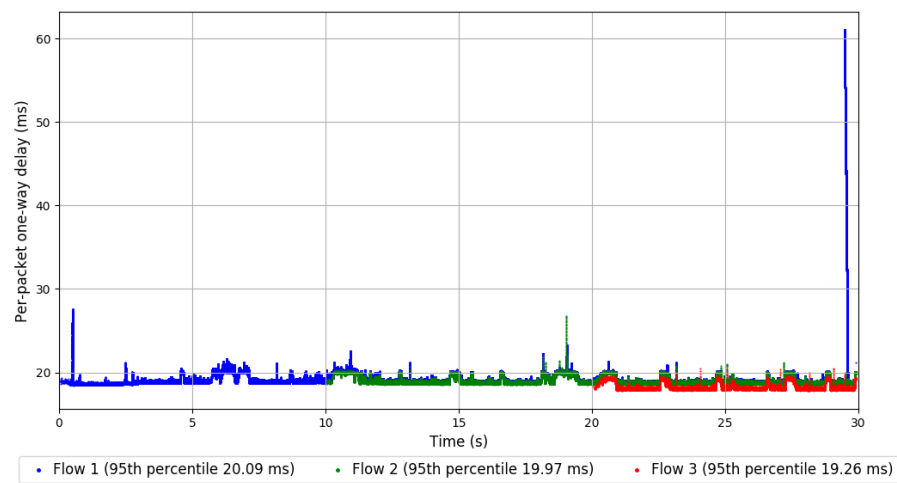
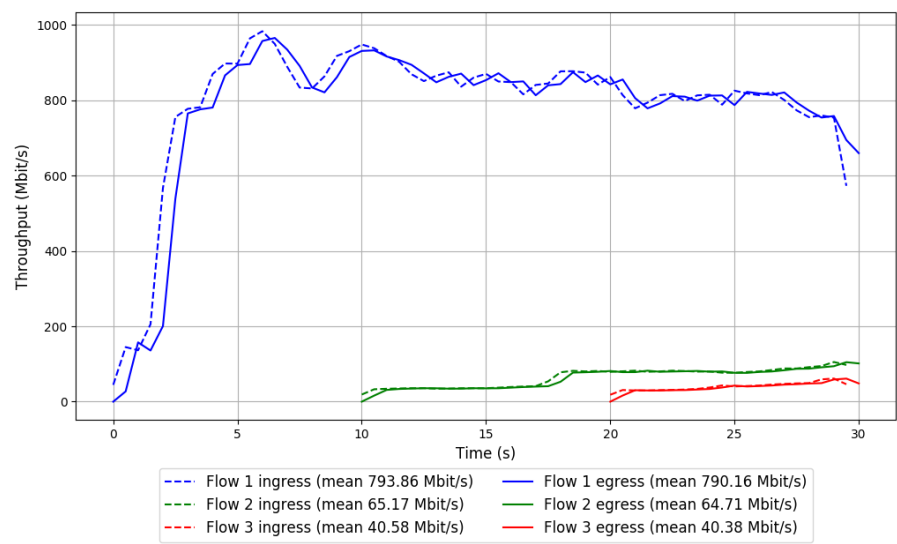
-- Flow 3:

Average throughput: 40.38 Mbit/s

95th percentile per-packet one-way delay: 19.257 ms

Loss rate: 0.49%

Run 6: Report of PCC-Allegro — Data Link

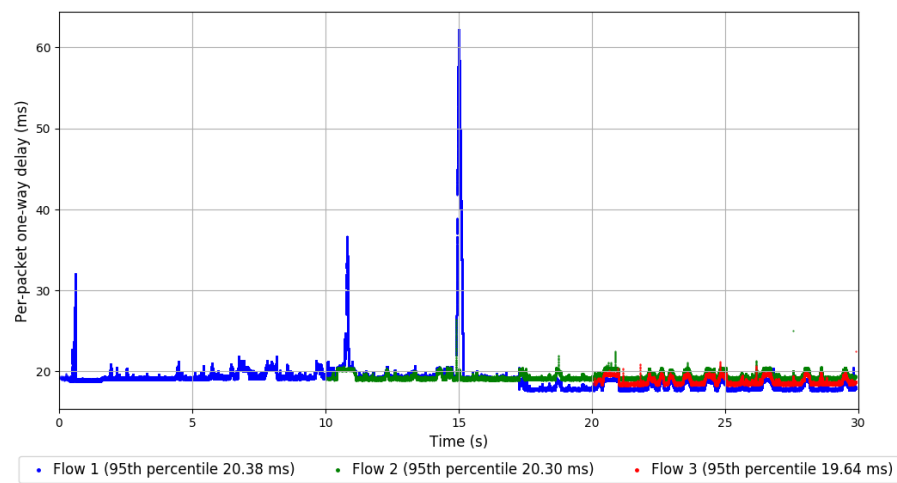
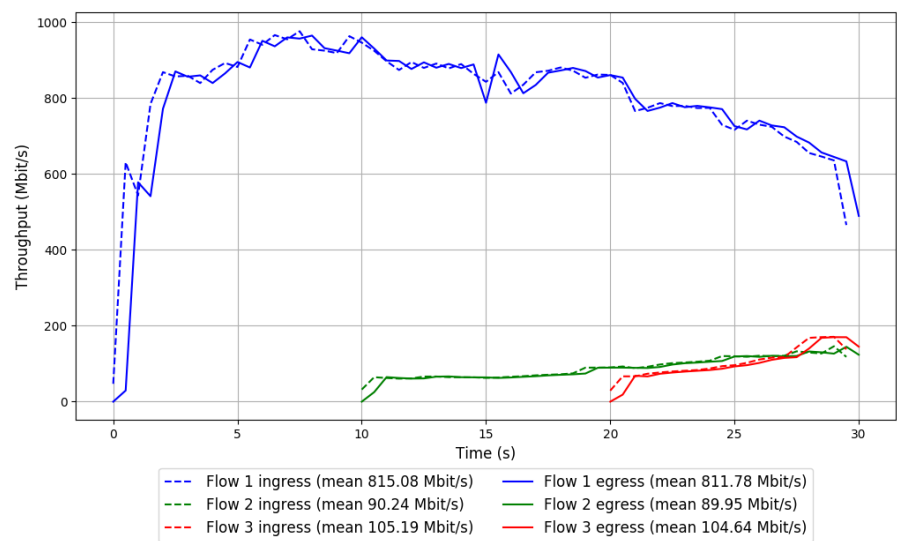


Run 7: Statistics of PCC-Allegro

Start at: 2018-07-03 21:11:55
End at: 2018-07-03 21:12:25
Local clock offset: -0.793 ms
Remote clock offset: -0.688 ms

Below is generated by plot.py at 2018-07-04 00:28:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 905.99 Mbit/s
95th percentile per-packet one-way delay: 20.366 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 811.78 Mbit/s
95th percentile per-packet one-way delay: 20.381 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 89.95 Mbit/s
95th percentile per-packet one-way delay: 20.299 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 104.64 Mbit/s
95th percentile per-packet one-way delay: 19.638 ms
Loss rate: 0.49%

Run 7: Report of PCC-Allegro — Data Link

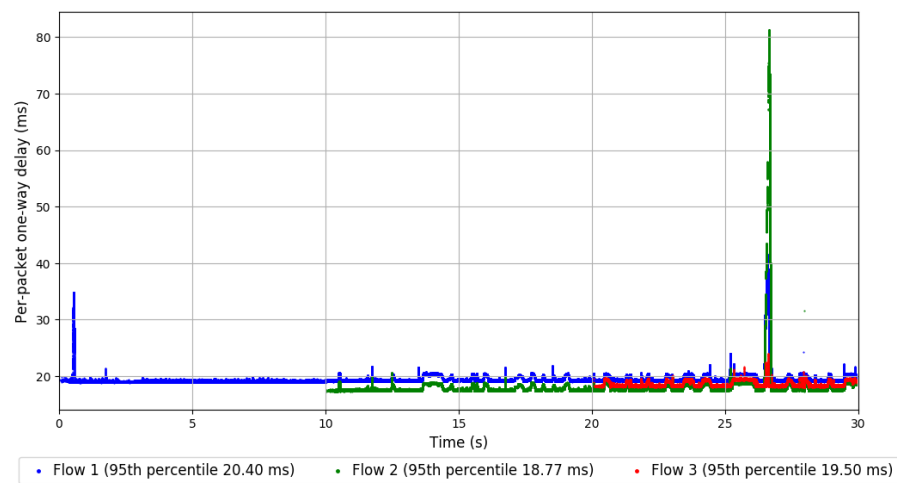
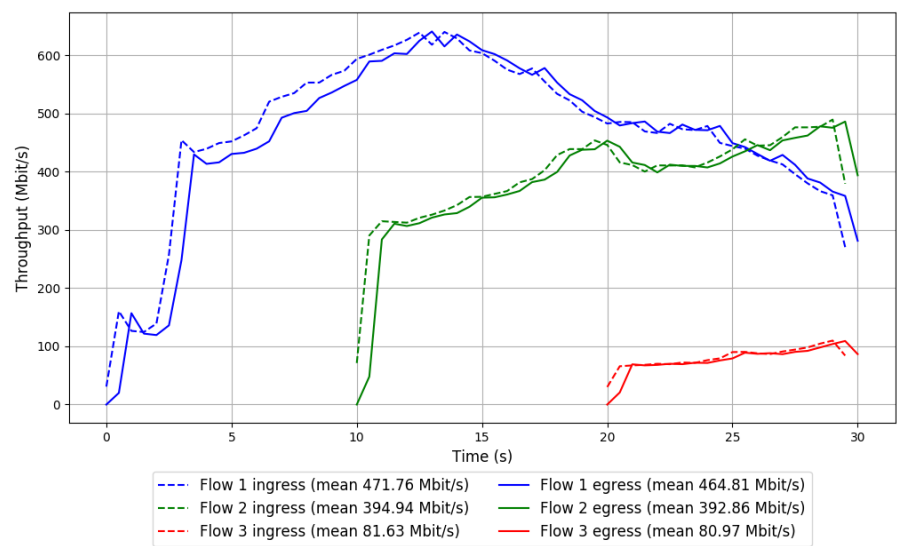


Run 8: Statistics of PCC-Allegro

Start at: 2018-07-03 21:39:02
End at: 2018-07-03 21:39:32
Local clock offset: 0.361 ms
Remote clock offset: -0.756 ms

Below is generated by plot.py at 2018-07-04 00:28:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 752.73 Mbit/s
95th percentile per-packet one-way delay: 20.362 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 464.81 Mbit/s
95th percentile per-packet one-way delay: 20.396 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 392.86 Mbit/s
95th percentile per-packet one-way delay: 18.773 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 80.97 Mbit/s
95th percentile per-packet one-way delay: 19.504 ms
Loss rate: 0.81%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-03 22:06:22

End at: 2018-07-03 22:06:52

Local clock offset: 0.091 ms

Remote clock offset: 1.366 ms

Below is generated by plot.py at 2018-07-04 00:35:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 882.11 Mbit/s

95th percentile per-packet one-way delay: 19.330 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 731.17 Mbit/s

95th percentile per-packet one-way delay: 18.639 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 207.42 Mbit/s

95th percentile per-packet one-way delay: 20.017 ms

Loss rate: 0.34%

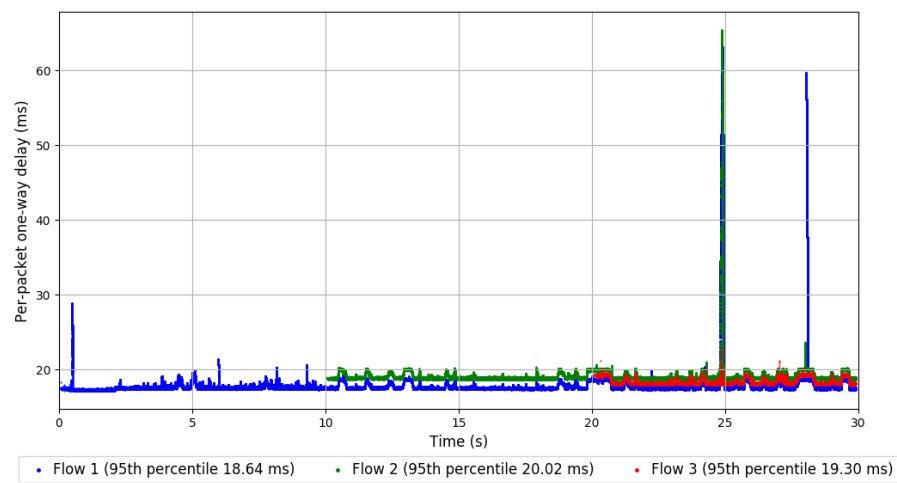
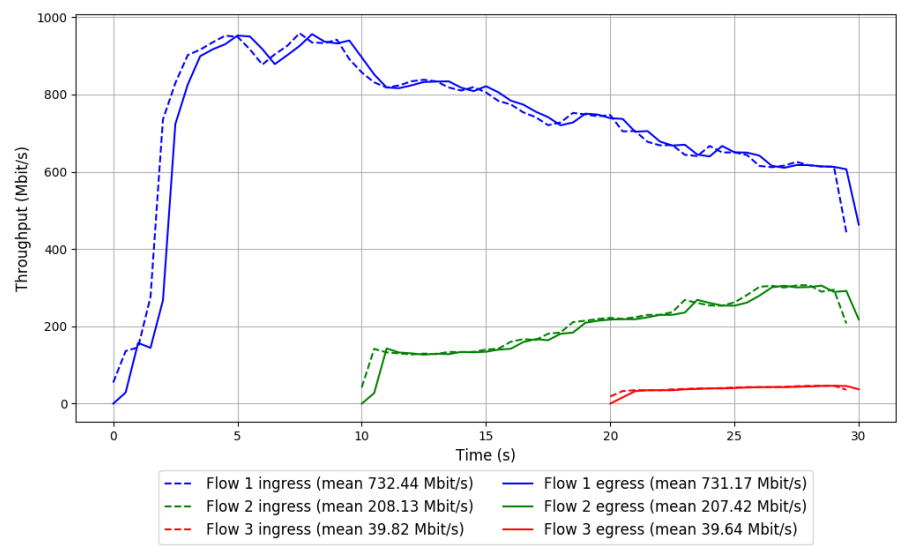
-- Flow 3:

Average throughput: 39.64 Mbit/s

95th percentile per-packet one-way delay: 19.297 ms

Loss rate: 0.47%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-03 22:33:28

End at: 2018-07-03 22:33:58

Local clock offset: 0.478 ms

Remote clock offset: 3.927 ms

Below is generated by plot.py at 2018-07-04 00:35:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 886.55 Mbit/s

95th percentile per-packet one-way delay: 19.440 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 719.65 Mbit/s

95th percentile per-packet one-way delay: 19.448 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 199.70 Mbit/s

95th percentile per-packet one-way delay: 19.399 ms

Loss rate: 0.17%

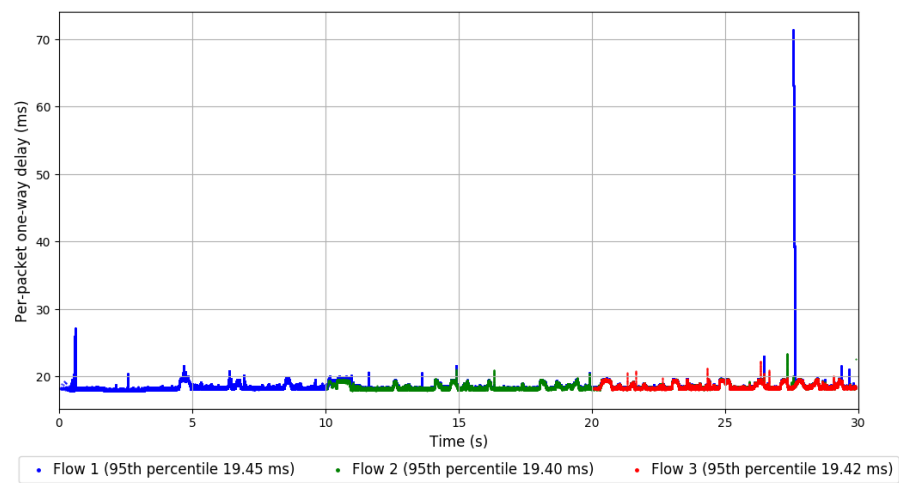
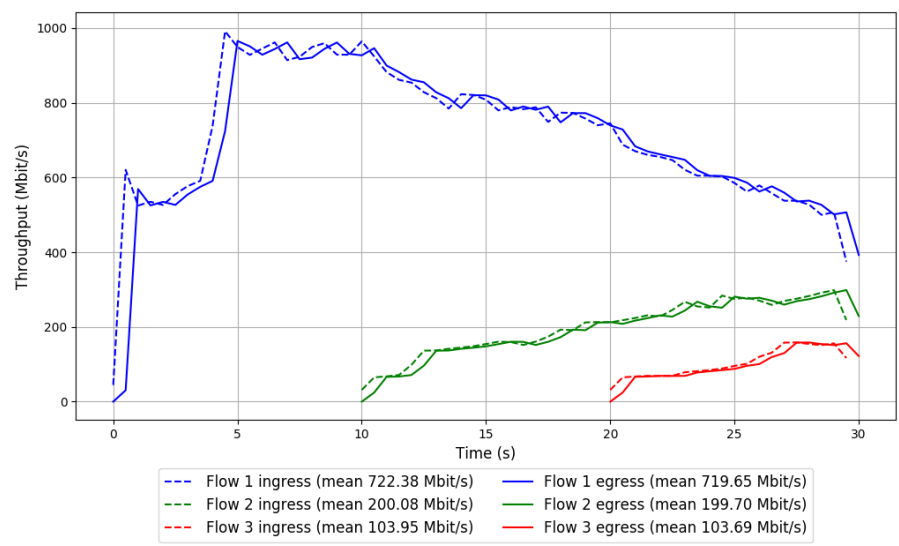
-- Flow 3:

Average throughput: 103.69 Mbit/s

95th percentile per-packet one-way delay: 19.420 ms

Loss rate: 0.25%

Run 10: Report of PCC-Allegro — Data Link

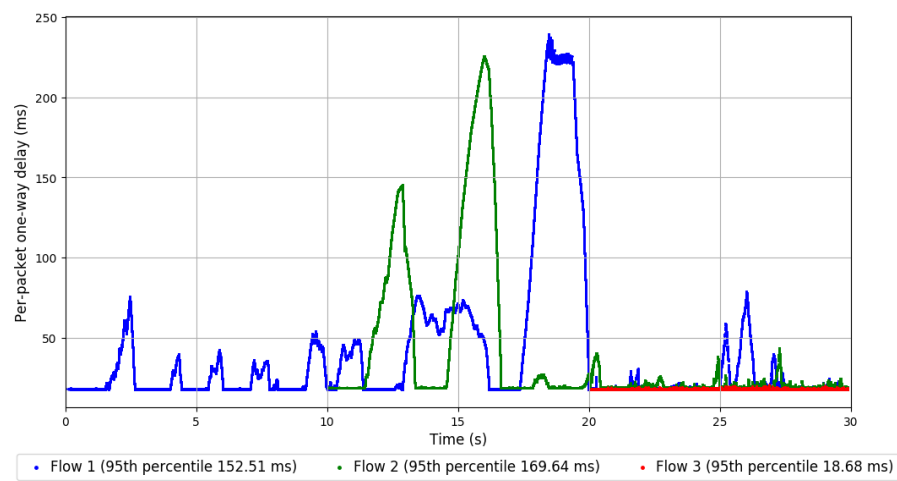
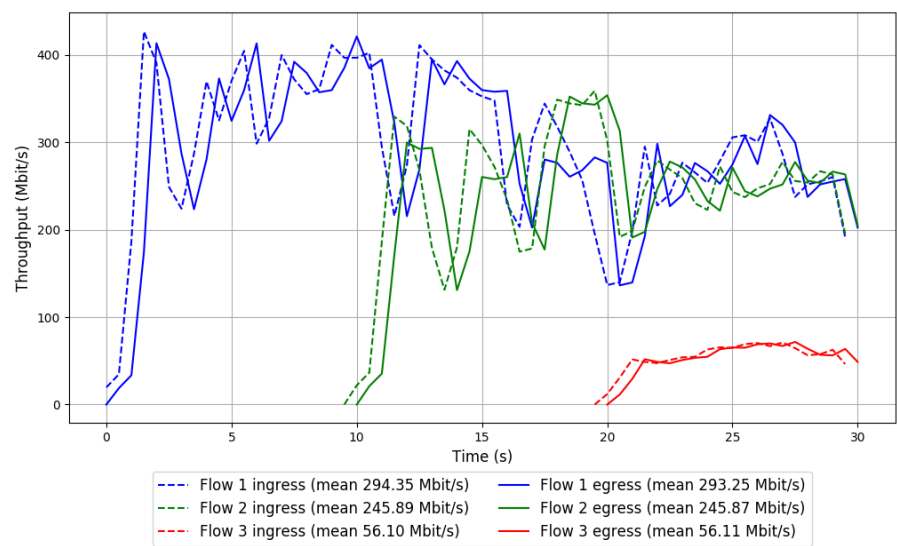


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-03 18:24:33
End at: 2018-07-03 18:25:03
Local clock offset: 0.411 ms
Remote clock offset: 0.795 ms

# Below is generated by plot.py at 2018-07-04 00:35:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 475.42 Mbit/s
95th percentile per-packet one-way delay: 156.231 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 293.25 Mbit/s
95th percentile per-packet one-way delay: 152.515 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 245.87 Mbit/s
95th percentile per-packet one-way delay: 169.644 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 56.11 Mbit/s
95th percentile per-packet one-way delay: 18.681 ms
Loss rate: 0.00%
```


Run 1: Report of PCC-Expr — Data Link

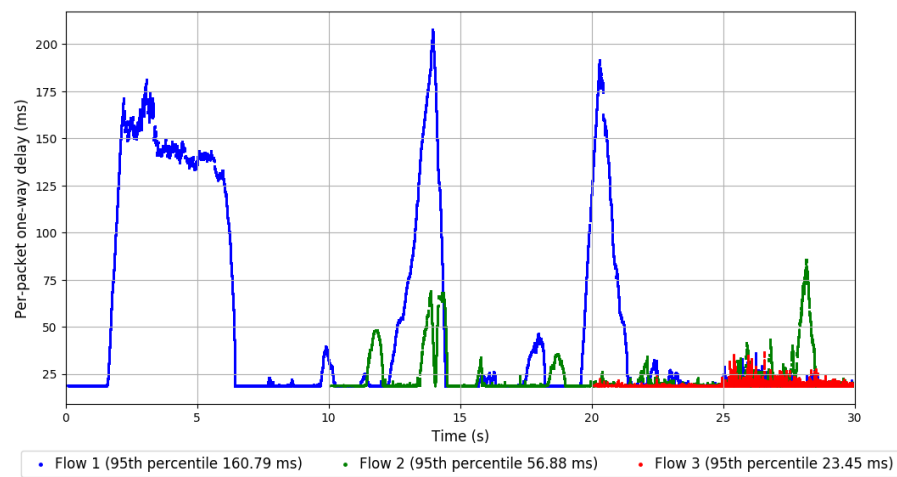
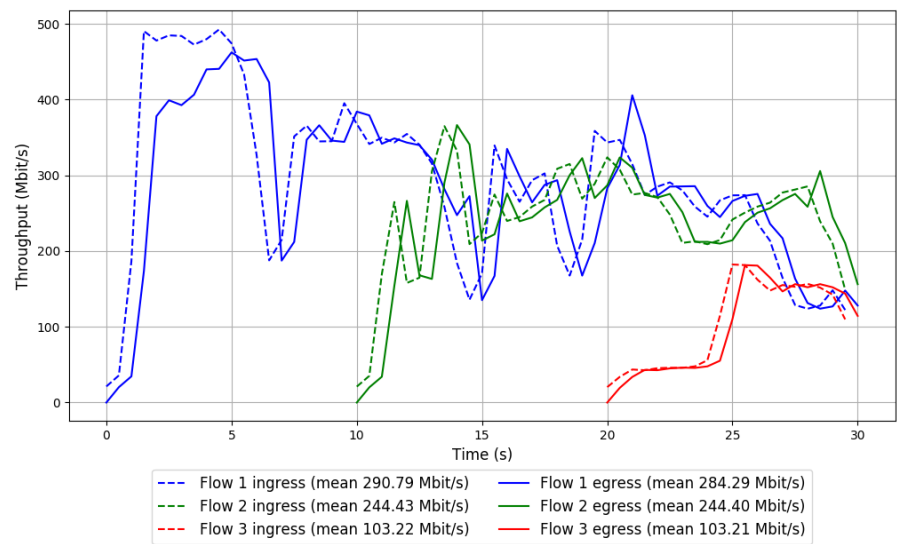


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-03 18:50:43
End at: 2018-07-03 18:51:13
Local clock offset: -2.663 ms
Remote clock offset: 3.603 ms

# Below is generated by plot.py at 2018-07-04 00:36:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 480.93 Mbit/s
95th percentile per-packet one-way delay: 153.258 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 284.29 Mbit/s
95th percentile per-packet one-way delay: 160.794 ms
Loss rate: 2.23%
-- Flow 2:
Average throughput: 244.40 Mbit/s
95th percentile per-packet one-way delay: 56.885 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 103.21 Mbit/s
95th percentile per-packet one-way delay: 23.453 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-03 19:18:19

End at: 2018-07-03 19:18:49

Local clock offset: -2.853 ms

Remote clock offset: 1.244 ms

Below is generated by plot.py at 2018-07-04 00:39:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 505.43 Mbit/s

95th percentile per-packet one-way delay: 222.003 ms

Loss rate: 4.16%

-- Flow 1:

Average throughput: 310.95 Mbit/s

95th percentile per-packet one-way delay: 93.091 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 273.06 Mbit/s

95th percentile per-packet one-way delay: 232.466 ms

Loss rate: 10.40%

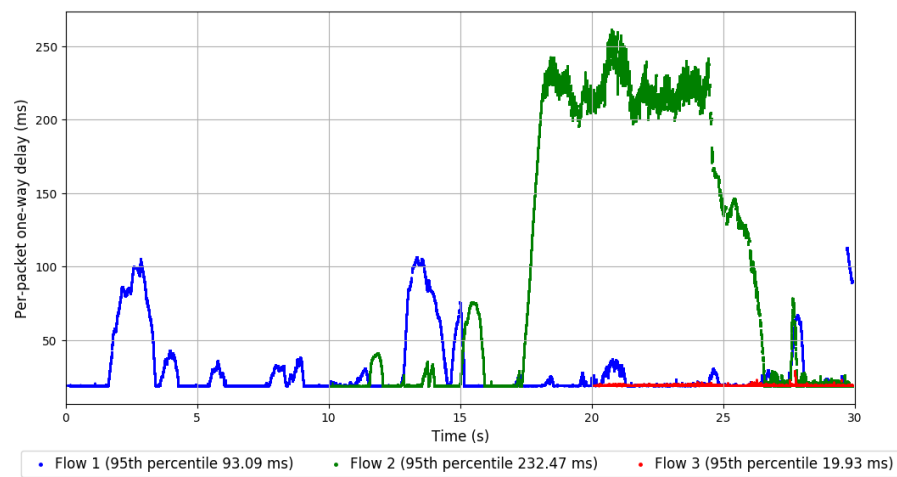
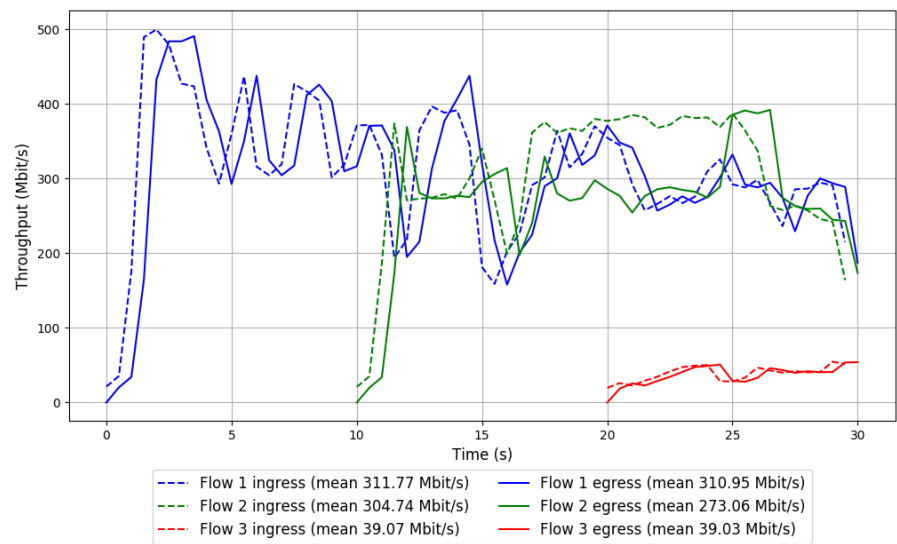
-- Flow 3:

Average throughput: 39.03 Mbit/s

95th percentile per-packet one-way delay: 19.925 ms

Loss rate: 0.11%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-03 19:45:18

End at: 2018-07-03 19:45:48

Local clock offset: -0.295 ms

Remote clock offset: -0.53 ms

Below is generated by plot.py at 2018-07-04 00:39:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 520.73 Mbit/s

95th percentile per-packet one-way delay: 228.166 ms

Loss rate: 4.45%

-- Flow 1:

Average throughput: 315.85 Mbit/s

95th percentile per-packet one-way delay: 225.598 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 280.06 Mbit/s

95th percentile per-packet one-way delay: 233.519 ms

Loss rate: 10.20%

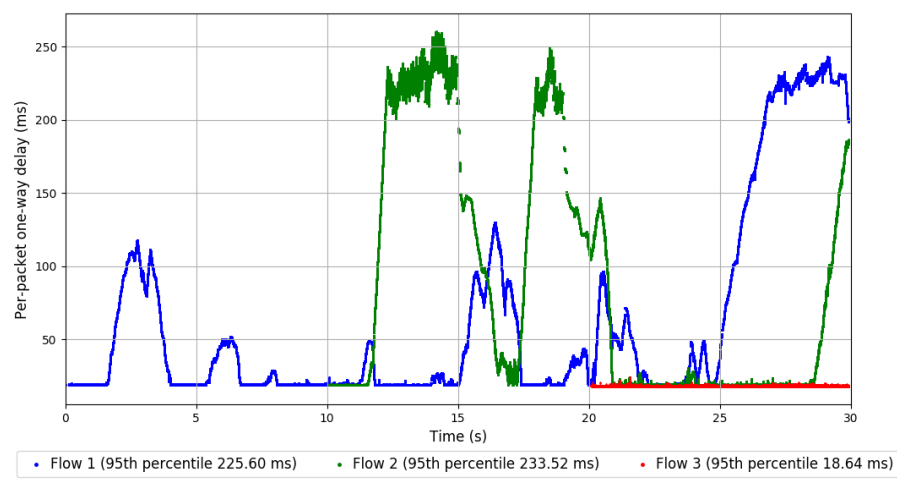
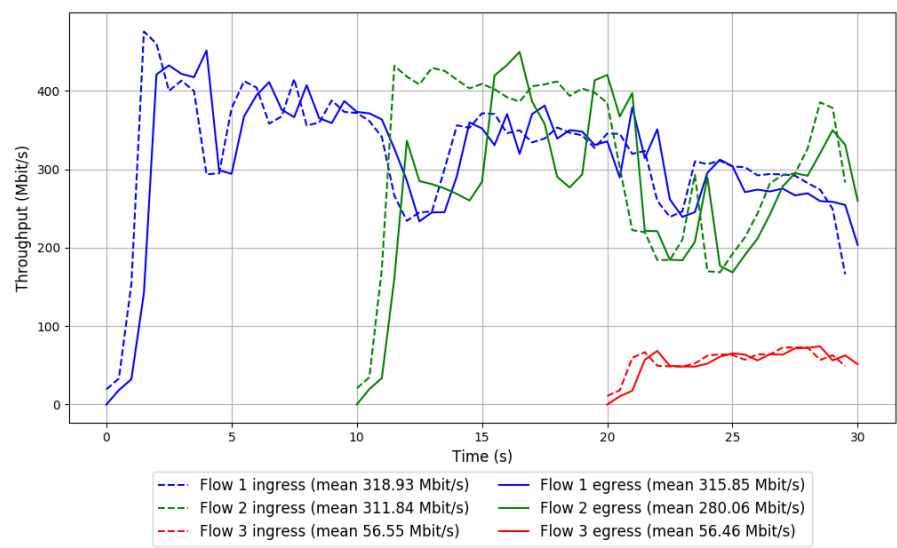
-- Flow 3:

Average throughput: 56.46 Mbit/s

95th percentile per-packet one-way delay: 18.642 ms

Loss rate: 0.15%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-03 20:12:30

End at: 2018-07-03 20:13:00

Local clock offset: 0.743 ms

Remote clock offset: 3.101 ms

Below is generated by plot.py at 2018-07-04 00:39:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 514.42 Mbit/s

95th percentile per-packet one-way delay: 156.818 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 312.37 Mbit/s

95th percentile per-packet one-way delay: 130.022 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 265.03 Mbit/s

95th percentile per-packet one-way delay: 187.495 ms

Loss rate: 1.58%

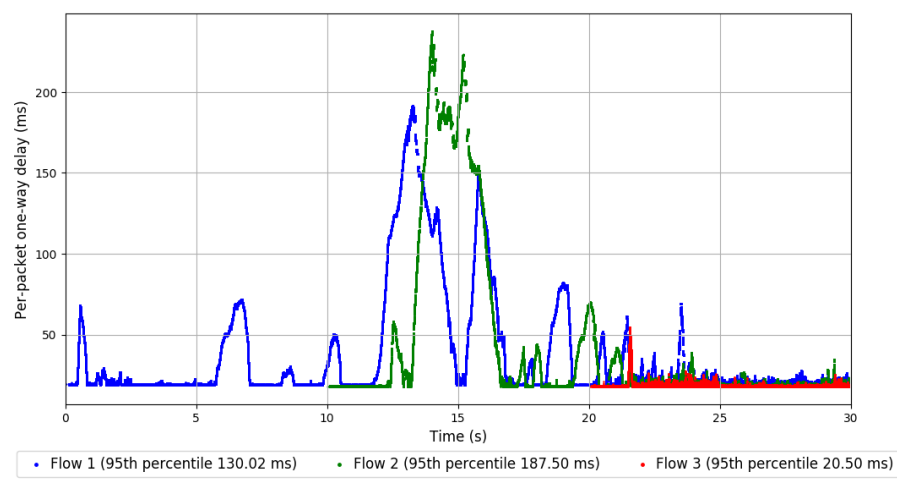
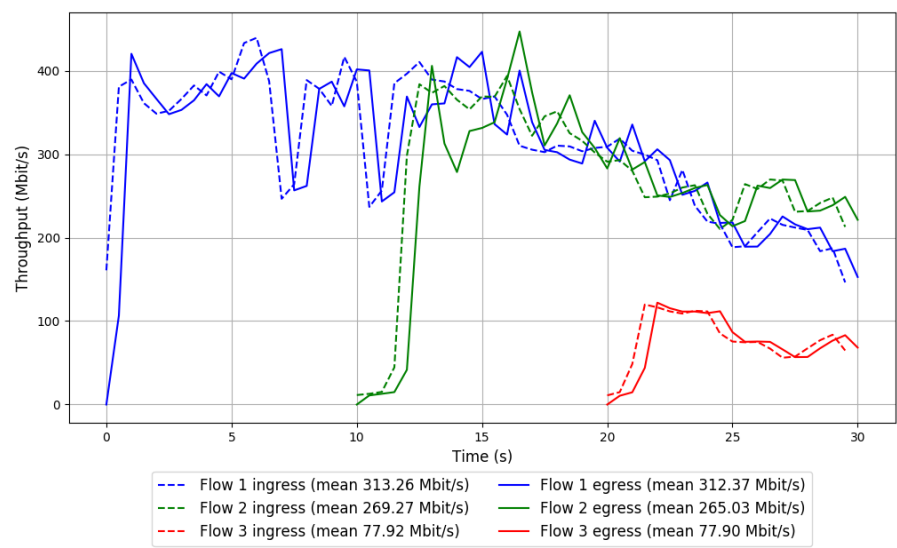
-- Flow 3:

Average throughput: 77.90 Mbit/s

95th percentile per-packet one-way delay: 20.498 ms

Loss rate: 0.03%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-03 20:39:41

End at: 2018-07-03 20:40:11

Local clock offset: -0.911 ms

Remote clock offset: 3.069 ms

Below is generated by plot.py at 2018-07-04 00:40:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 495.97 Mbit/s

95th percentile per-packet one-way delay: 165.069 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 296.95 Mbit/s

95th percentile per-packet one-way delay: 169.772 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 275.73 Mbit/s

95th percentile per-packet one-way delay: 149.973 ms

Loss rate: 0.07%

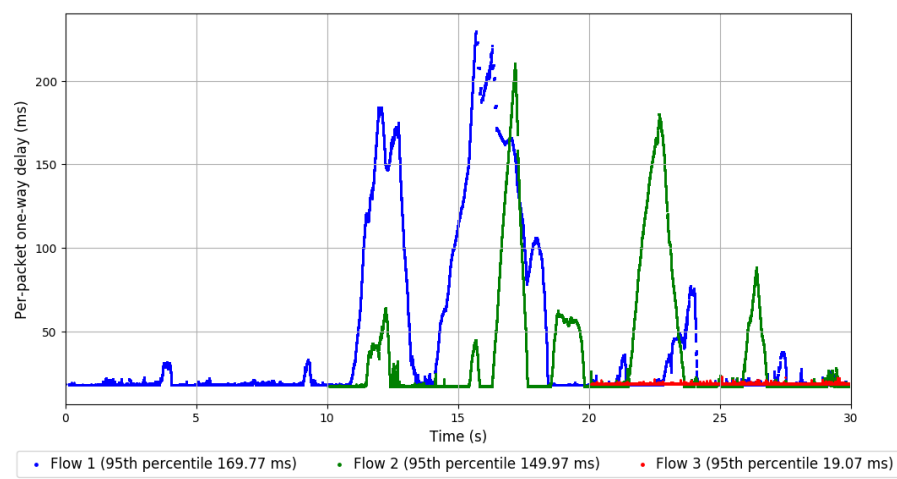
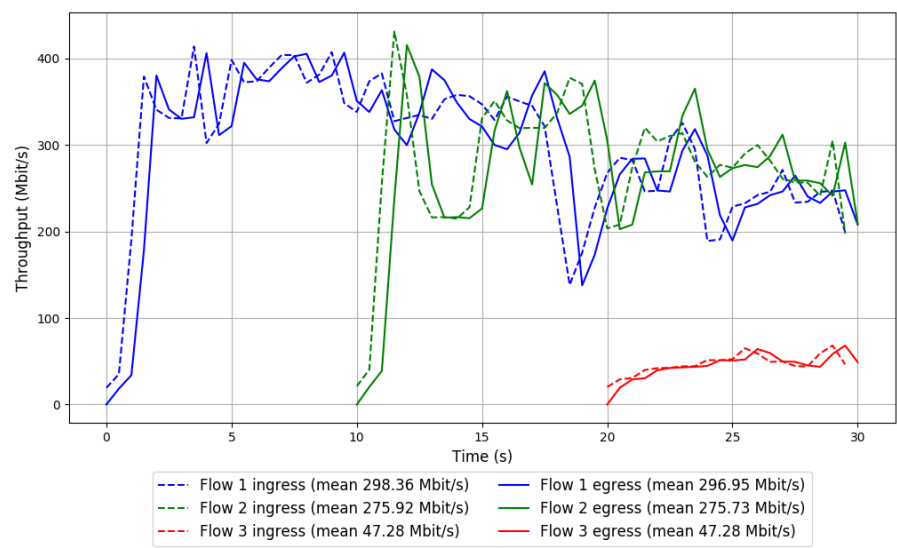
-- Flow 3:

Average throughput: 47.28 Mbit/s

95th percentile per-packet one-way delay: 19.074 ms

Loss rate: 0.01%

Run 6: Report of PCC-Expr — Data Link

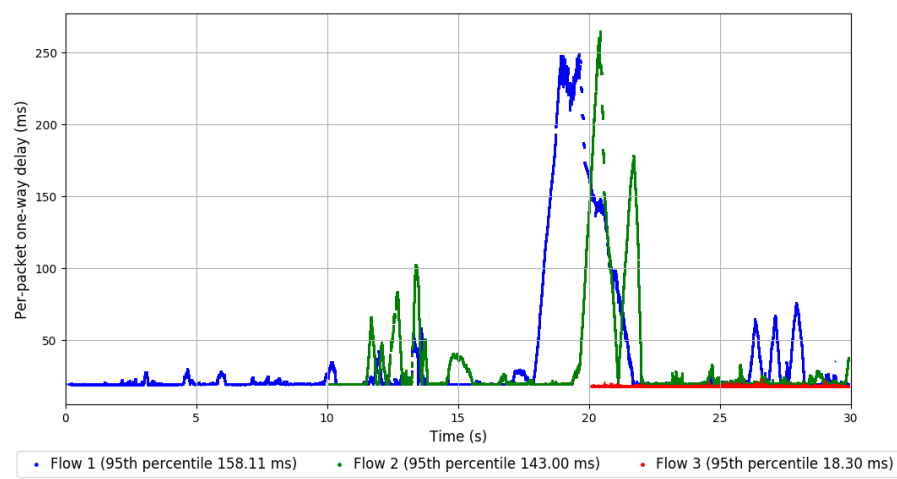
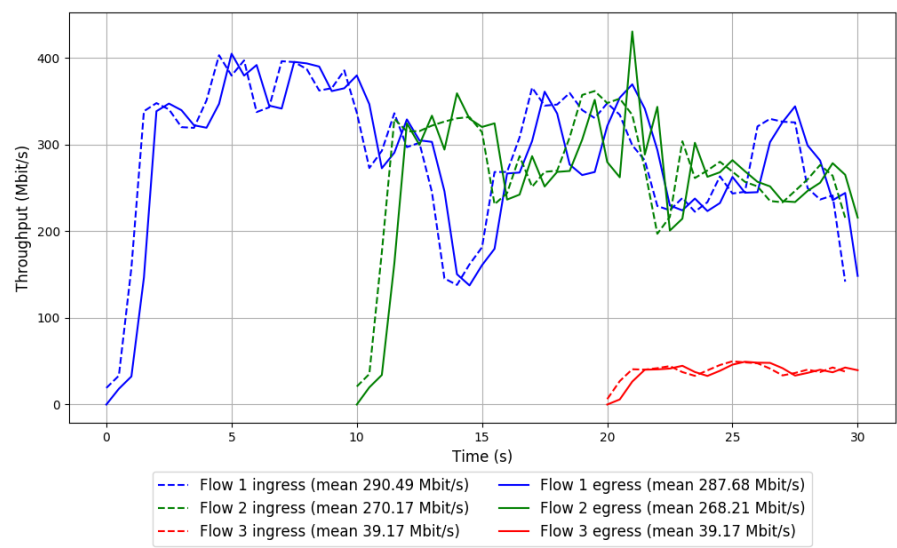


Run 7: Statistics of PCC-Expr

Start at: 2018-07-03 21:06:42
End at: 2018-07-03 21:07:12
Local clock offset: -1.966 ms
Remote clock offset: -0.225 ms

Below is generated by plot.py at 2018-07-04 00:47:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 478.99 Mbit/s
95th percentile per-packet one-way delay: 148.820 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 287.68 Mbit/s
95th percentile per-packet one-way delay: 158.113 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 268.21 Mbit/s
95th percentile per-packet one-way delay: 142.998 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 39.17 Mbit/s
95th percentile per-packet one-way delay: 18.301 ms
Loss rate: 0.00%

Run 7: Report of PCC-Expr — Data Link

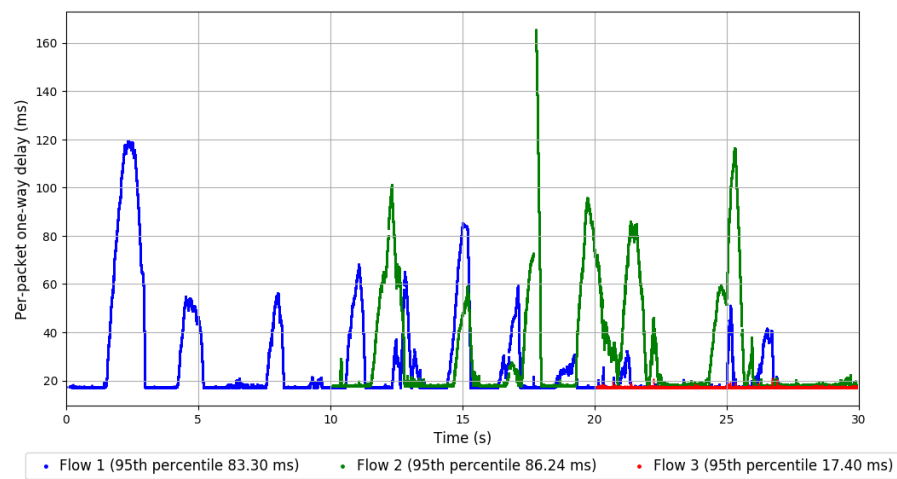
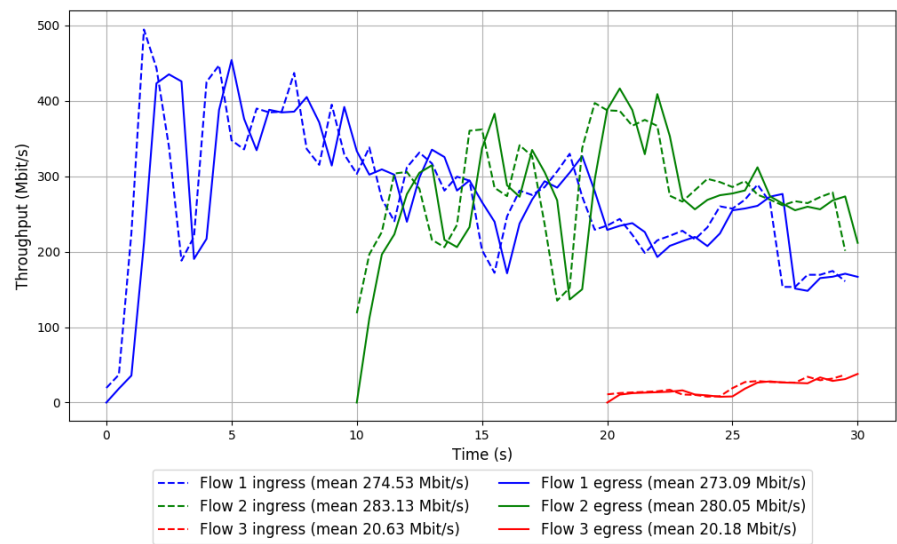


Run 8: Statistics of PCC-Expr

Start at: 2018-07-03 21:33:48
End at: 2018-07-03 21:34:18
Local clock offset: 0.69 ms
Remote clock offset: -0.919 ms

Below is generated by plot.py at 2018-07-04 00:47:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 466.03 Mbit/s
95th percentile per-packet one-way delay: 84.460 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 273.09 Mbit/s
95th percentile per-packet one-way delay: 83.295 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 280.05 Mbit/s
95th percentile per-packet one-way delay: 86.237 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 20.18 Mbit/s
95th percentile per-packet one-way delay: 17.398 ms
Loss rate: 2.20%

Run 8: Report of PCC-Expr — Data Link

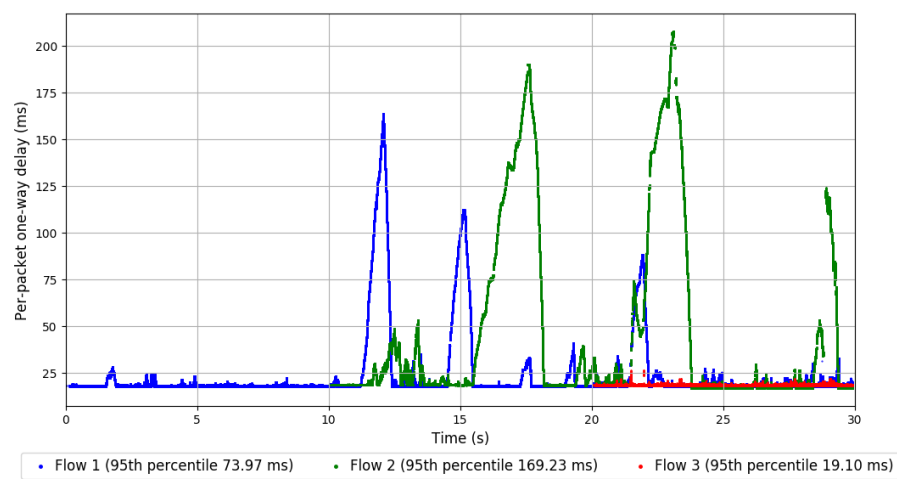
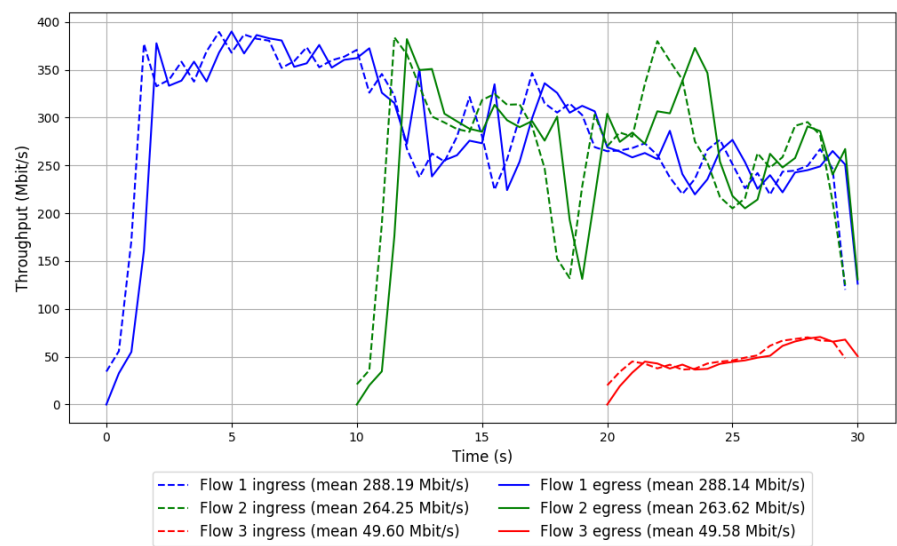


Run 9: Statistics of PCC-Expr

Start at: 2018-07-03 22:01:10
End at: 2018-07-03 22:01:40
Local clock offset: -0.107 ms
Remote clock offset: -0.213 ms

Below is generated by plot.py at 2018-07-04 00:47:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 479.84 Mbit/s
95th percentile per-packet one-way delay: 140.098 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 288.14 Mbit/s
95th percentile per-packet one-way delay: 73.971 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 263.62 Mbit/s
95th percentile per-packet one-way delay: 169.229 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 49.58 Mbit/s
95th percentile per-packet one-way delay: 19.100 ms
Loss rate: 0.04%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-03 22:28:16

End at: 2018-07-03 22:28:46

Local clock offset: 0.437 ms

Remote clock offset: 3.721 ms

Below is generated by plot.py at 2018-07-04 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 468.82 Mbit/s

95th percentile per-packet one-way delay: 34.283 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 302.60 Mbit/s

95th percentile per-packet one-way delay: 37.147 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 189.51 Mbit/s

95th percentile per-packet one-way delay: 25.335 ms

Loss rate: 0.01%

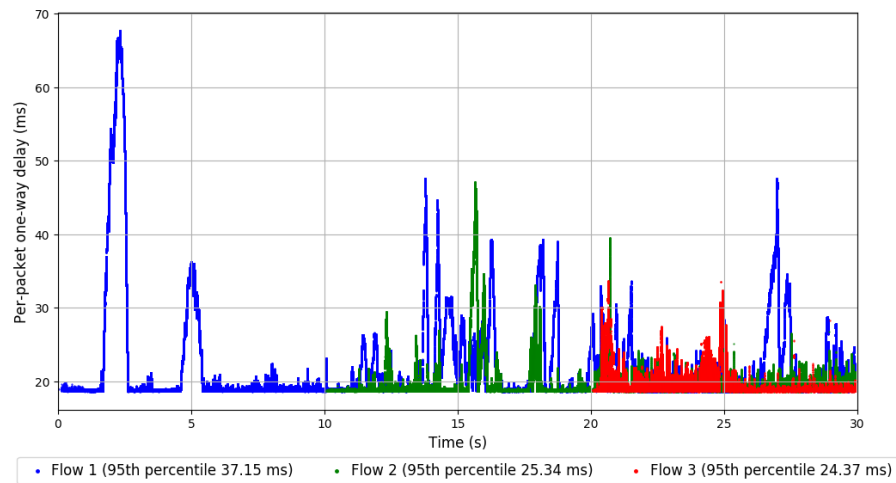
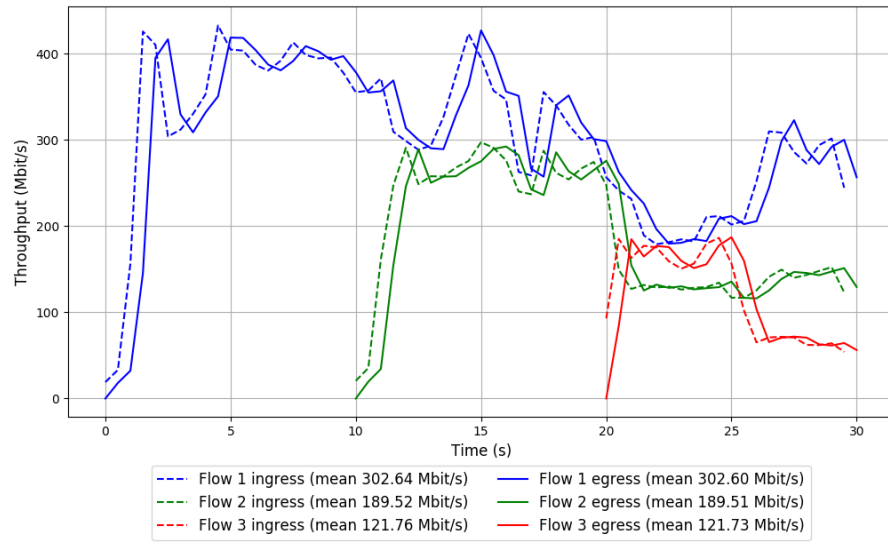
-- Flow 3:

Average throughput: 121.73 Mbit/s

95th percentile per-packet one-way delay: 24.366 ms

Loss rate: 0.03%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-03 18:23:12

End at: 2018-07-03 18:23:42

Local clock offset: 0.515 ms

Remote clock offset: 0.758 ms

Below is generated by plot.py at 2018-07-04 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.69 Mbit/s

95th percentile per-packet one-way delay: 18.121 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 18.853 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.70 Mbit/s

95th percentile per-packet one-way delay: 18.113 ms

Loss rate: 0.00%

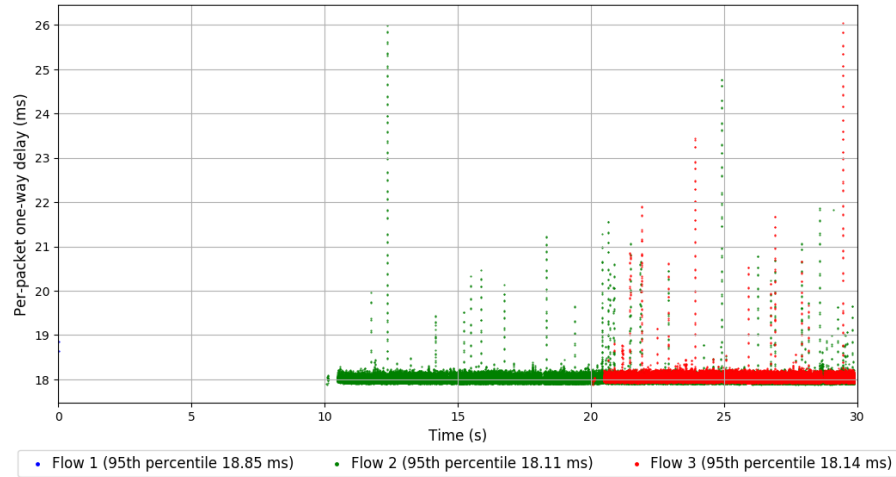
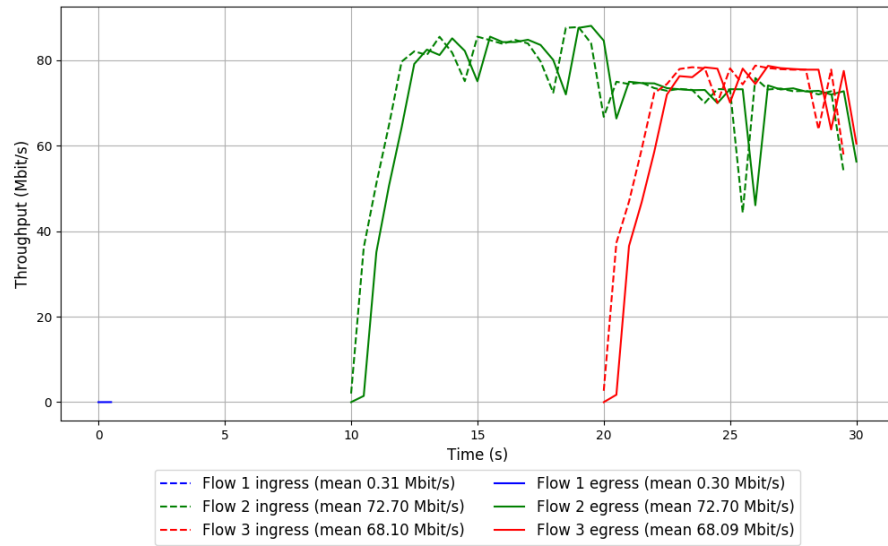
-- Flow 3:

Average throughput: 68.09 Mbit/s

95th percentile per-packet one-way delay: 18.136 ms

Loss rate: 0.02%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-03 18:49:20

End at: 2018-07-03 18:49:50

Local clock offset: -2.551 ms

Remote clock offset: 3.543 ms

Below is generated by plot.py at 2018-07-04 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.64 Mbit/s

95th percentile per-packet one-way delay: 20.645 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.15 Mbit/s

95th percentile per-packet one-way delay: 19.777 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.33 Mbit/s

95th percentile per-packet one-way delay: 22.066 ms

Loss rate: 0.00%

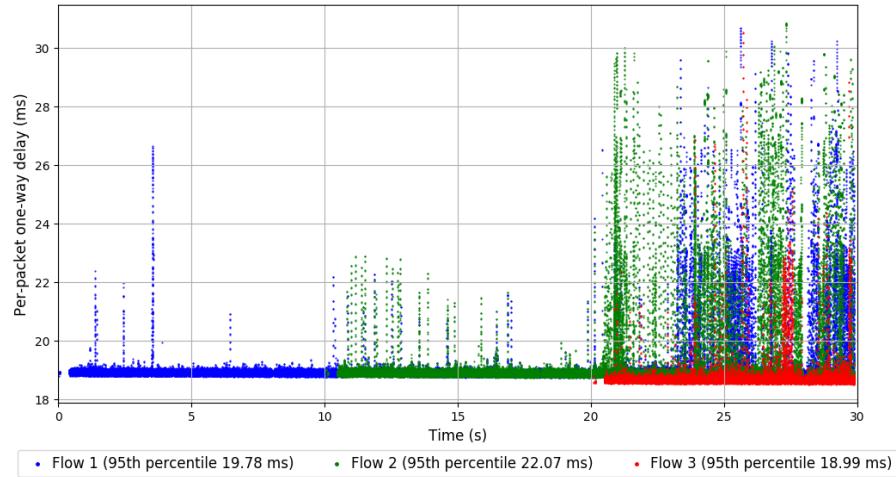
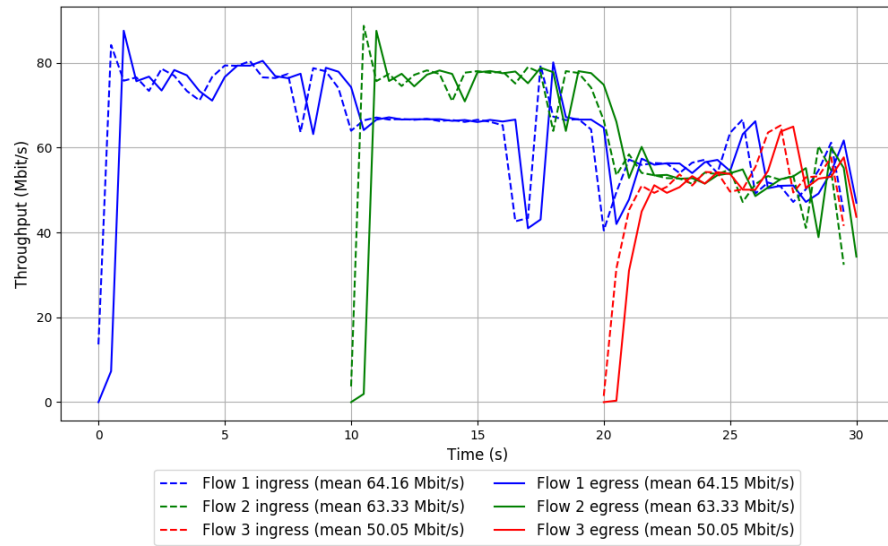
-- Flow 3:

Average throughput: 50.05 Mbit/s

95th percentile per-packet one-way delay: 18.988 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-03 19:16:56

End at: 2018-07-03 19:17:26

Local clock offset: -2.872 ms

Remote clock offset: 1.603 ms

Below is generated by plot.py at 2018-07-04 00:47:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.81 Mbit/s

95th percentile per-packet one-way delay: 19.510 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 70.20 Mbit/s

95th percentile per-packet one-way delay: 19.126 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 58.15 Mbit/s

95th percentile per-packet one-way delay: 19.342 ms

Loss rate: 0.00%

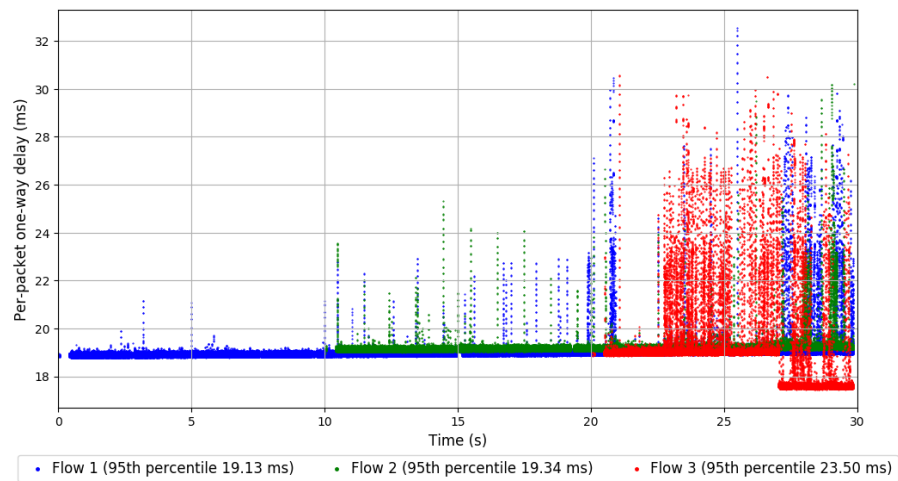
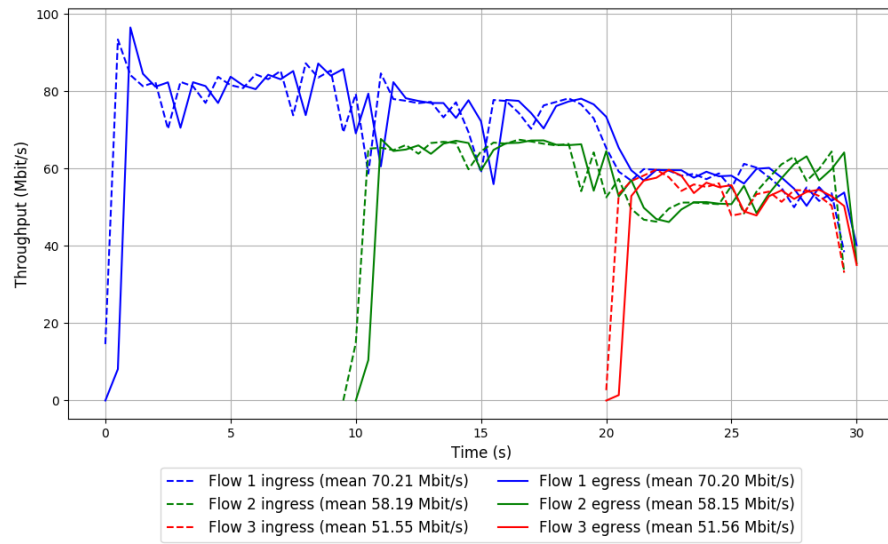
-- Flow 3:

Average throughput: 51.56 Mbit/s

95th percentile per-packet one-way delay: 23.505 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

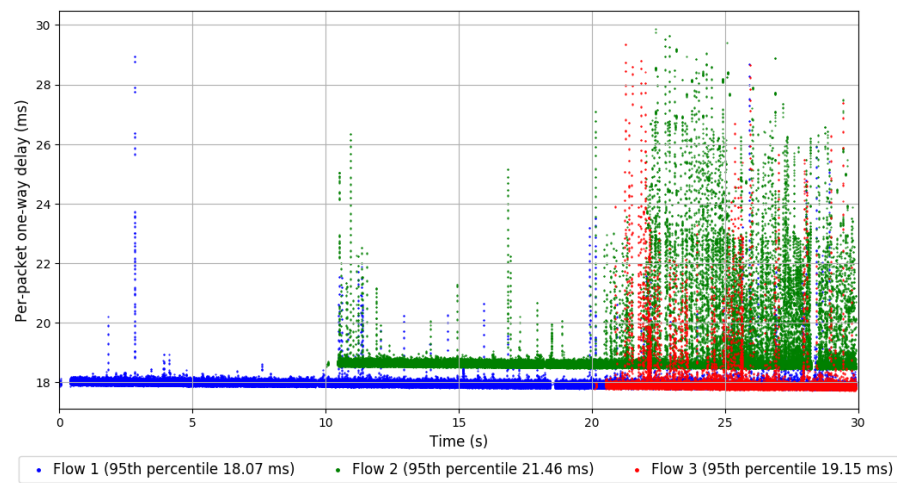
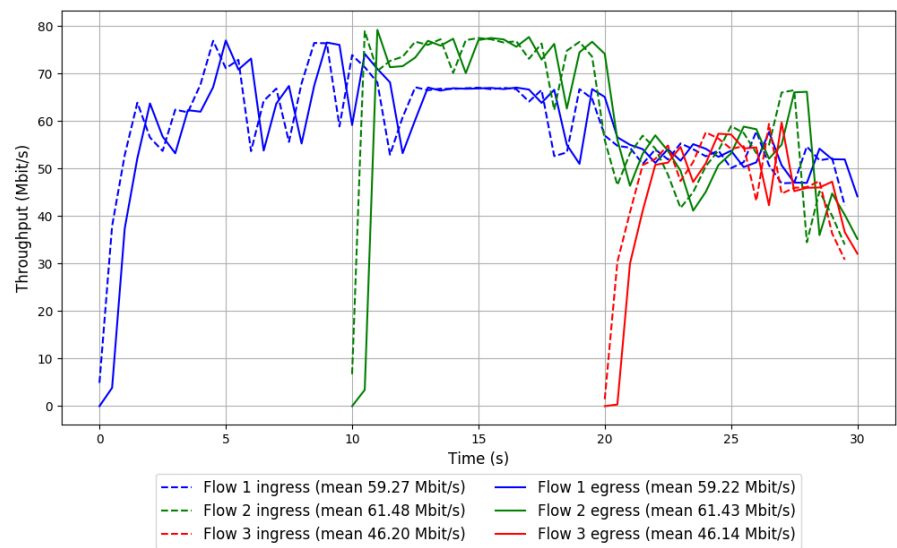


Run 4: Statistics of QUIC Cubic

Start at: 2018-07-03 19:43:55
End at: 2018-07-03 19:44:25
Local clock offset: -0.46 ms
Remote clock offset: -1.258 ms

Below is generated by plot.py at 2018-07-04 00:47:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 115.17 Mbit/s
95th percentile per-packet one-way delay: 19.215 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 59.22 Mbit/s
95th percentile per-packet one-way delay: 18.071 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 61.43 Mbit/s
95th percentile per-packet one-way delay: 21.456 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 46.14 Mbit/s
95th percentile per-packet one-way delay: 19.147 ms
Loss rate: 0.12%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-03 20:11:07

End at: 2018-07-03 20:11:37

Local clock offset: 0.748 ms

Remote clock offset: 3.12 ms

Below is generated by plot.py at 2018-07-04 00:47:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.56 Mbit/s

95th percentile per-packet one-way delay: 20.015 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.84 Mbit/s

95th percentile per-packet one-way delay: 19.627 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.38 Mbit/s

95th percentile per-packet one-way delay: 19.995 ms

Loss rate: 0.01%

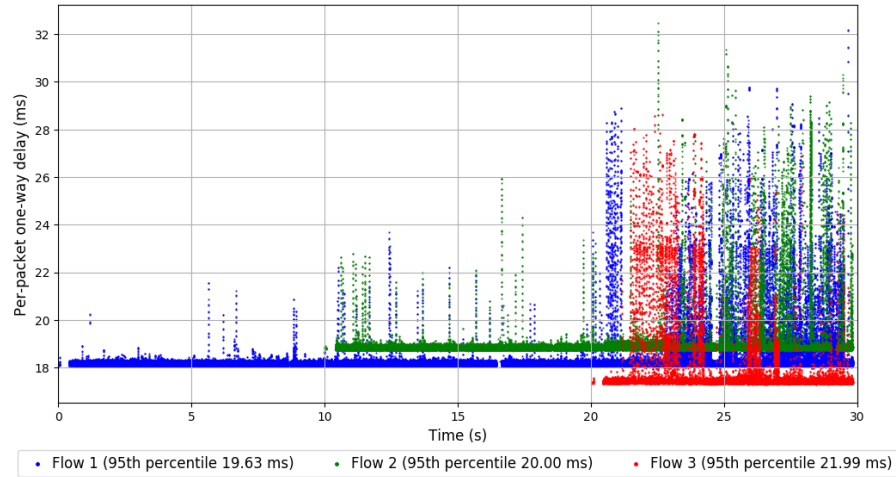
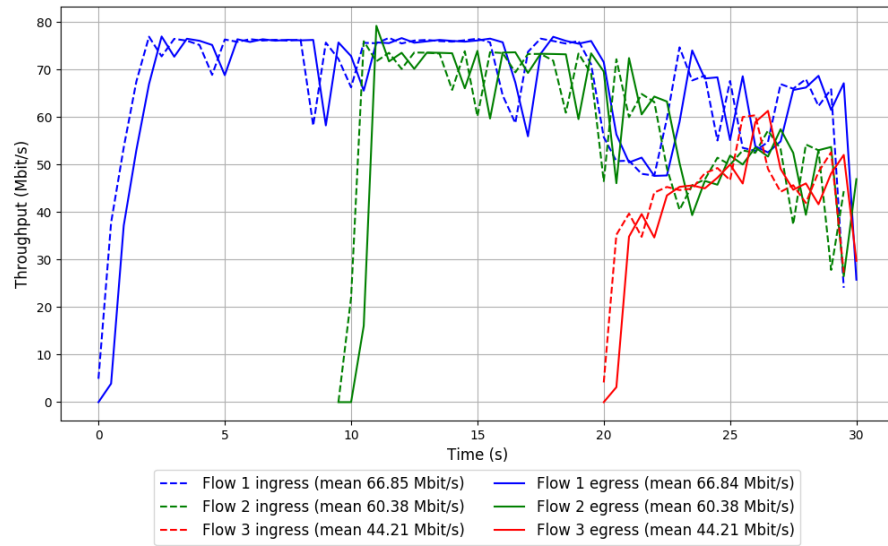
-- Flow 3:

Average throughput: 44.21 Mbit/s

95th percentile per-packet one-way delay: 21.988 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-03 20:38:18

End at: 2018-07-03 20:38:48

Local clock offset: -0.492 ms

Remote clock offset: 2.995 ms

Below is generated by plot.py at 2018-07-04 00:47:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.93 Mbit/s

95th percentile per-packet one-way delay: 18.807 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.31 Mbit/s

95th percentile per-packet one-way delay: 18.595 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.14 Mbit/s

95th percentile per-packet one-way delay: 18.889 ms

Loss rate: 0.00%

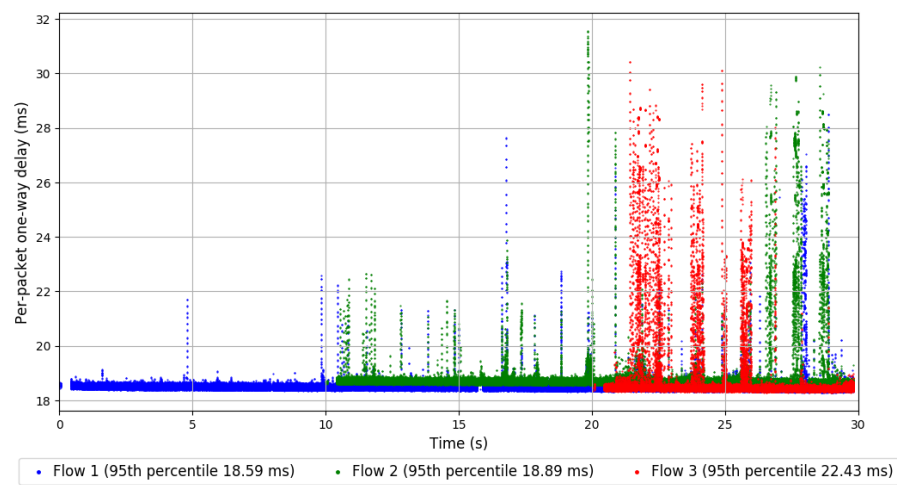
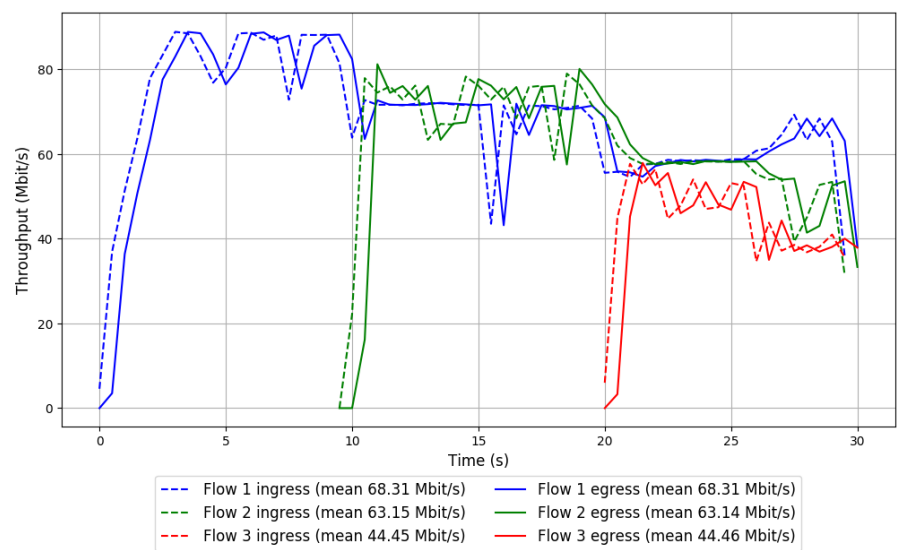
-- Flow 3:

Average throughput: 44.46 Mbit/s

95th percentile per-packet one-way delay: 22.434 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

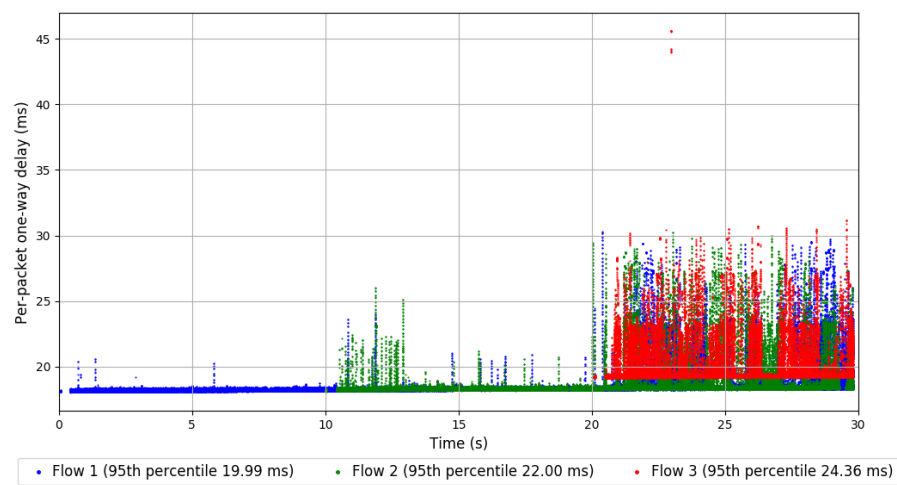
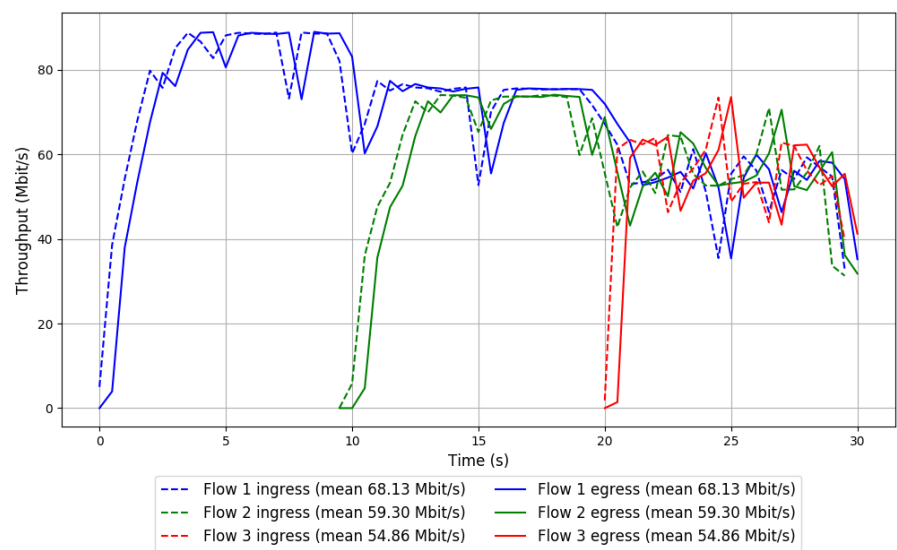


Run 7: Statistics of QUIC Cubic

Start at: 2018-07-03 21:05:20
End at: 2018-07-03 21:05:50
Local clock offset: -2.3 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2018-07-04 00:47:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 125.56 Mbit/s
95th percentile per-packet one-way delay: 22.042 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.13 Mbit/s
95th percentile per-packet one-way delay: 19.987 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 59.30 Mbit/s
95th percentile per-packet one-way delay: 21.999 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 54.86 Mbit/s
95th percentile per-packet one-way delay: 24.360 ms
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

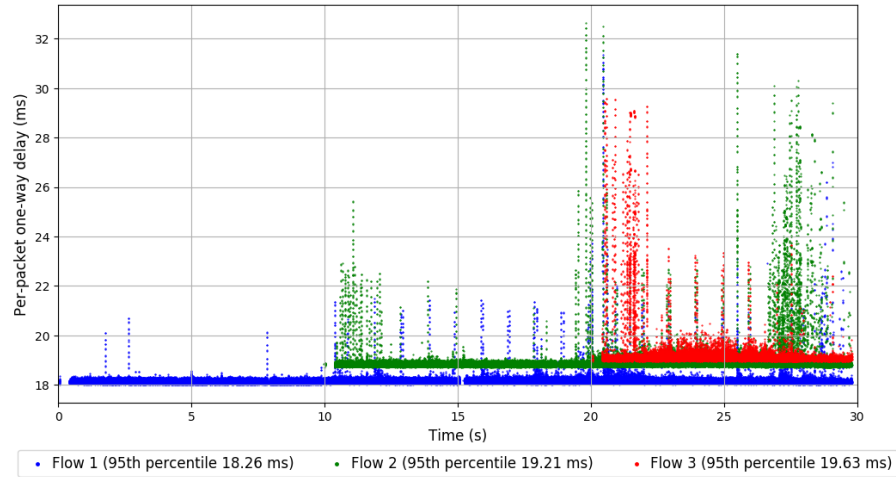
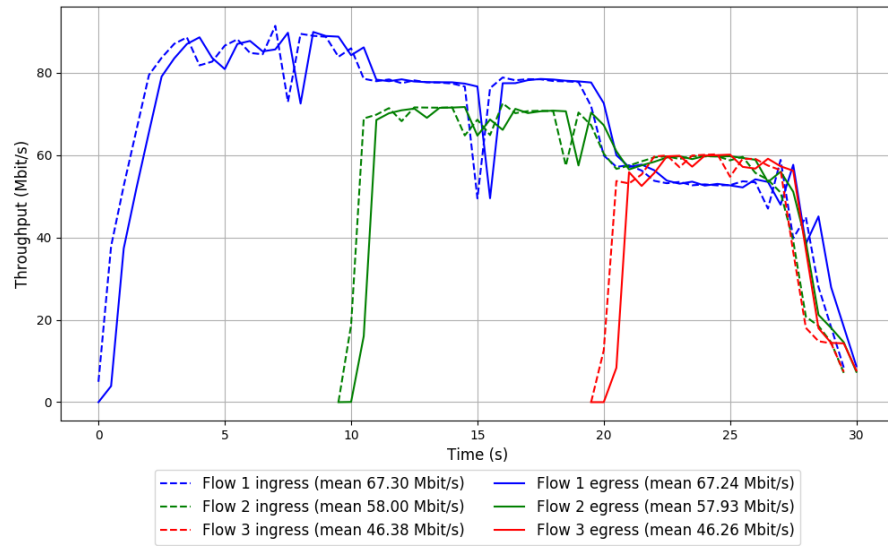


Run 8: Statistics of QUIC Cubic

Start at: 2018-07-03 21:32:26
End at: 2018-07-03 21:32:56
Local clock offset: 0.62 ms
Remote clock offset: -0.926 ms

Below is generated by plot.py at 2018-07-04 00:47:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 121.04 Mbit/s
95th percentile per-packet one-way delay: 19.167 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 67.24 Mbit/s
95th percentile per-packet one-way delay: 18.256 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 57.93 Mbit/s
95th percentile per-packet one-way delay: 19.215 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 46.26 Mbit/s
95th percentile per-packet one-way delay: 19.626 ms
Loss rate: 0.26%

Run 8: Report of QUIC Cubic — Data Link

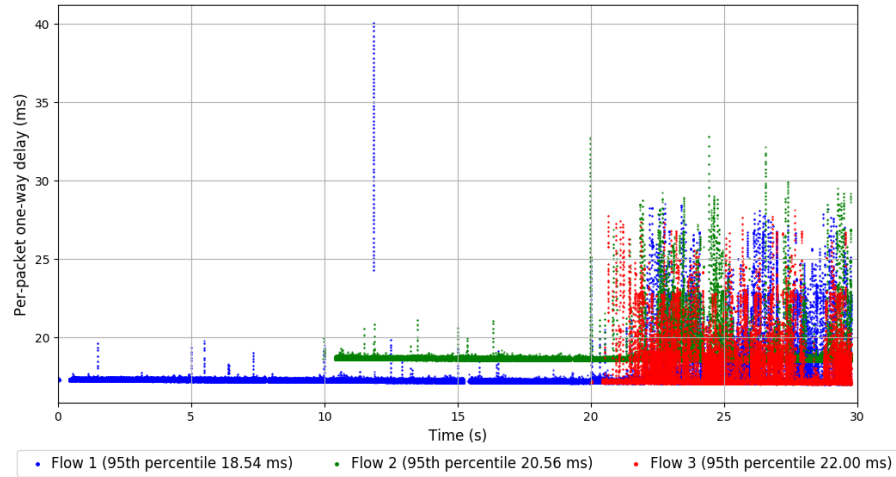
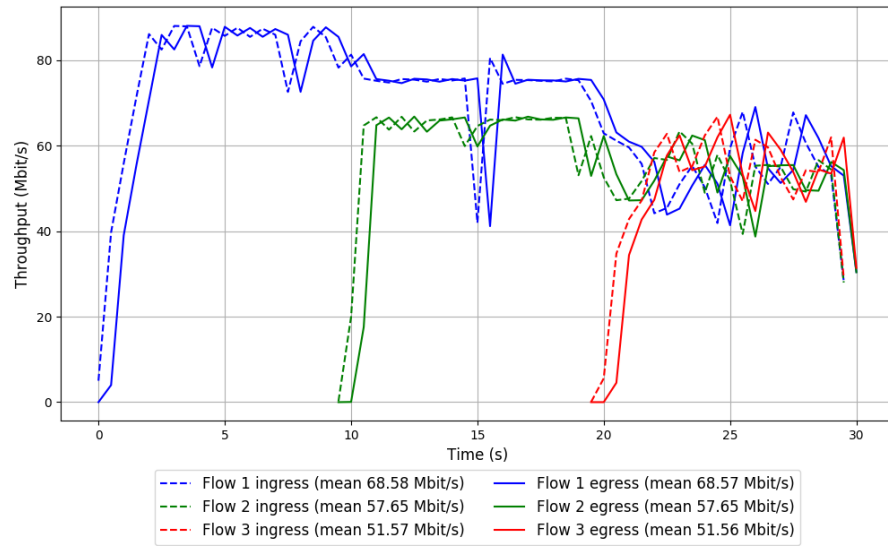


Run 9: Statistics of QUIC Cubic

Start at: 2018-07-03 21:59:47
End at: 2018-07-03 22:00:17
Local clock offset: -0.084 ms
Remote clock offset: -0.734 ms

Below is generated by plot.py at 2018-07-04 00:47:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 123.92 Mbit/s
95th percentile per-packet one-way delay: 19.987 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.57 Mbit/s
95th percentile per-packet one-way delay: 18.536 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 57.65 Mbit/s
95th percentile per-packet one-way delay: 20.563 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.56 Mbit/s
95th percentile per-packet one-way delay: 22.004 ms
Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-03 22:26:54

End at: 2018-07-03 22:27:24

Local clock offset: 0.422 ms

Remote clock offset: 3.663 ms

Below is generated by plot.py at 2018-07-04 00:47:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.26 Mbit/s

95th percentile per-packet one-way delay: 20.879 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.26 Mbit/s

95th percentile per-packet one-way delay: 20.537 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.68 Mbit/s

95th percentile per-packet one-way delay: 21.599 ms

Loss rate: 0.00%

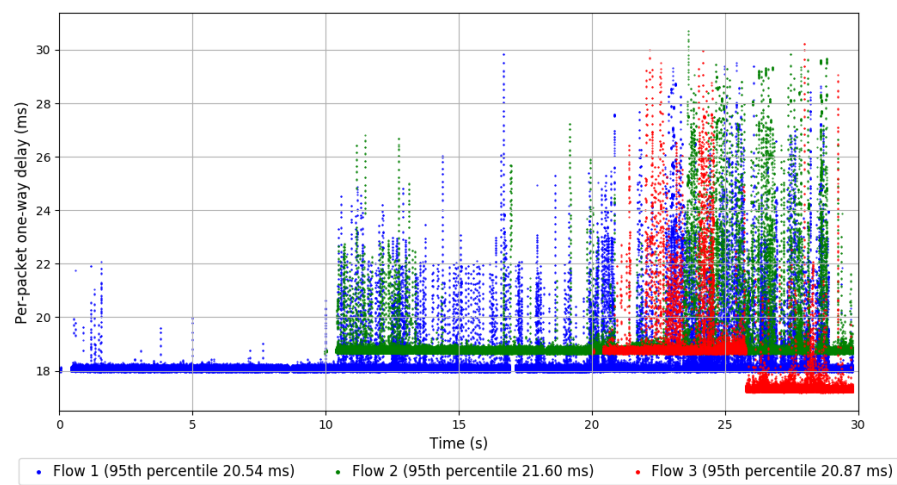
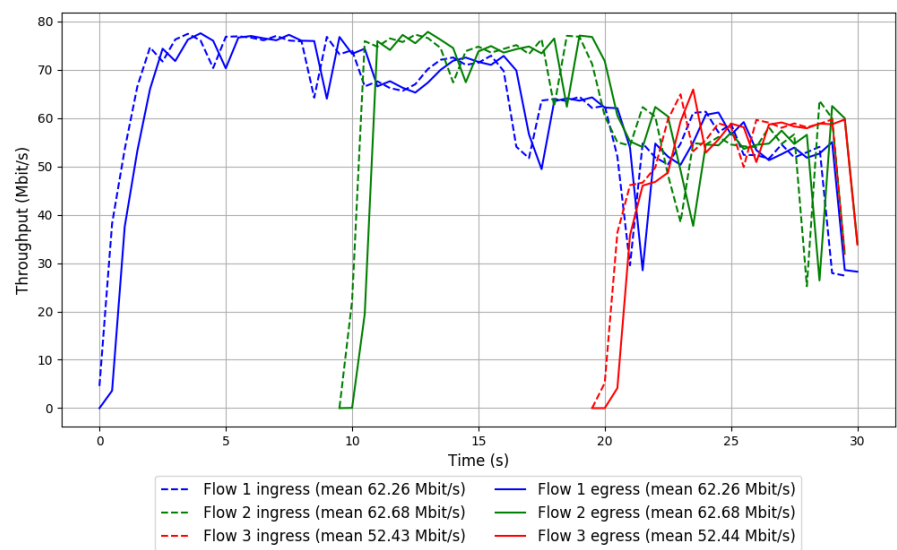
-- Flow 3:

Average throughput: 52.44 Mbit/s

95th percentile per-packet one-way delay: 20.869 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

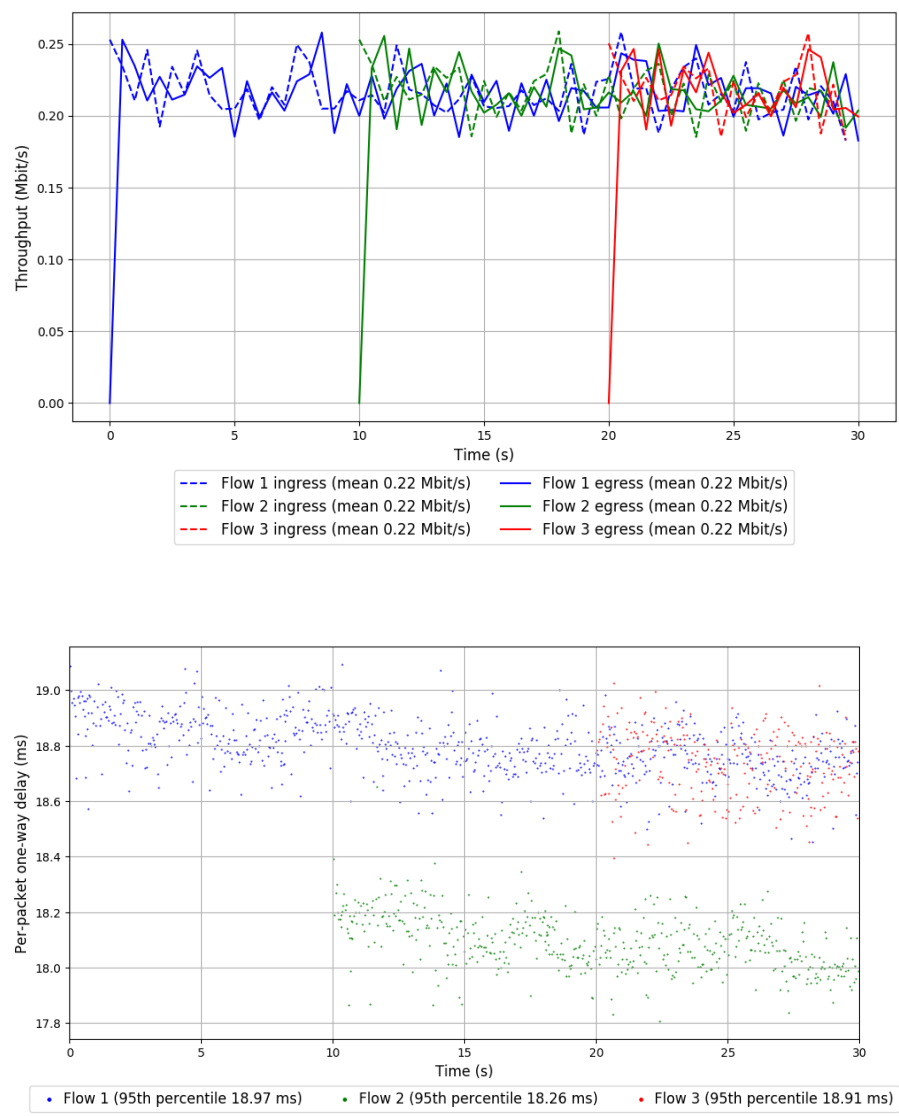


```
Run 1: Statistics of SReAM

Start at: 2018-07-03 18:40:04
End at: 2018-07-03 18:40:34
Local clock offset: -1.3 ms
Remote clock offset: 2.428 ms

# Below is generated by plot.py at 2018-07-04 00:47:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 18.935 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.966 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.259 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.907 ms
Loss rate: 0.00%
```


Run 1: Report of SReAM — Data Link

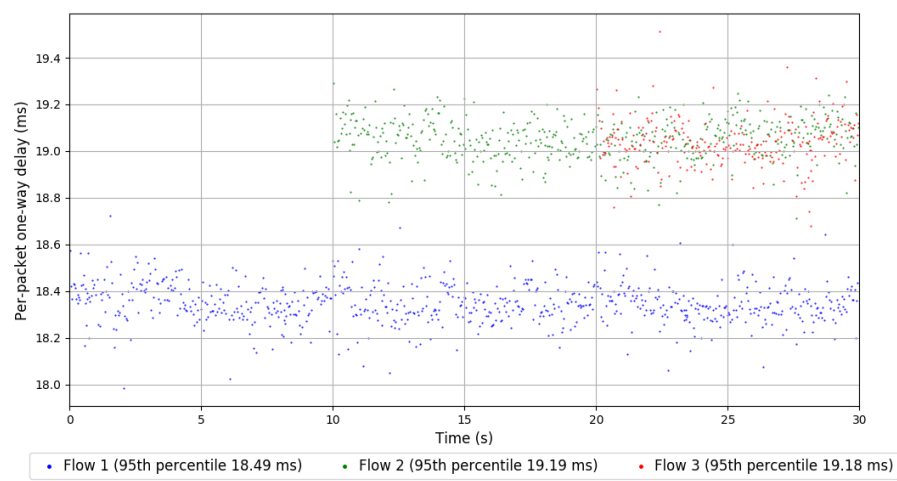
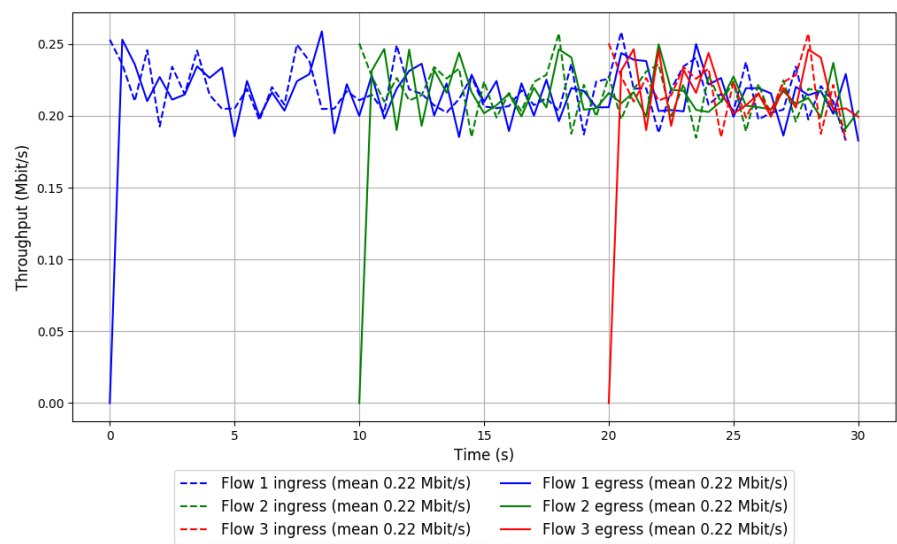


```
Run 2: Statistics of SReAM

Start at: 2018-07-03 19:07:32
End at: 2018-07-03 19:08:02
Local clock offset: -3.084 ms
Remote clock offset: 4.958 ms

# Below is generated by plot.py at 2018-07-04 00:47:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.158 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.491 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.187 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.184 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

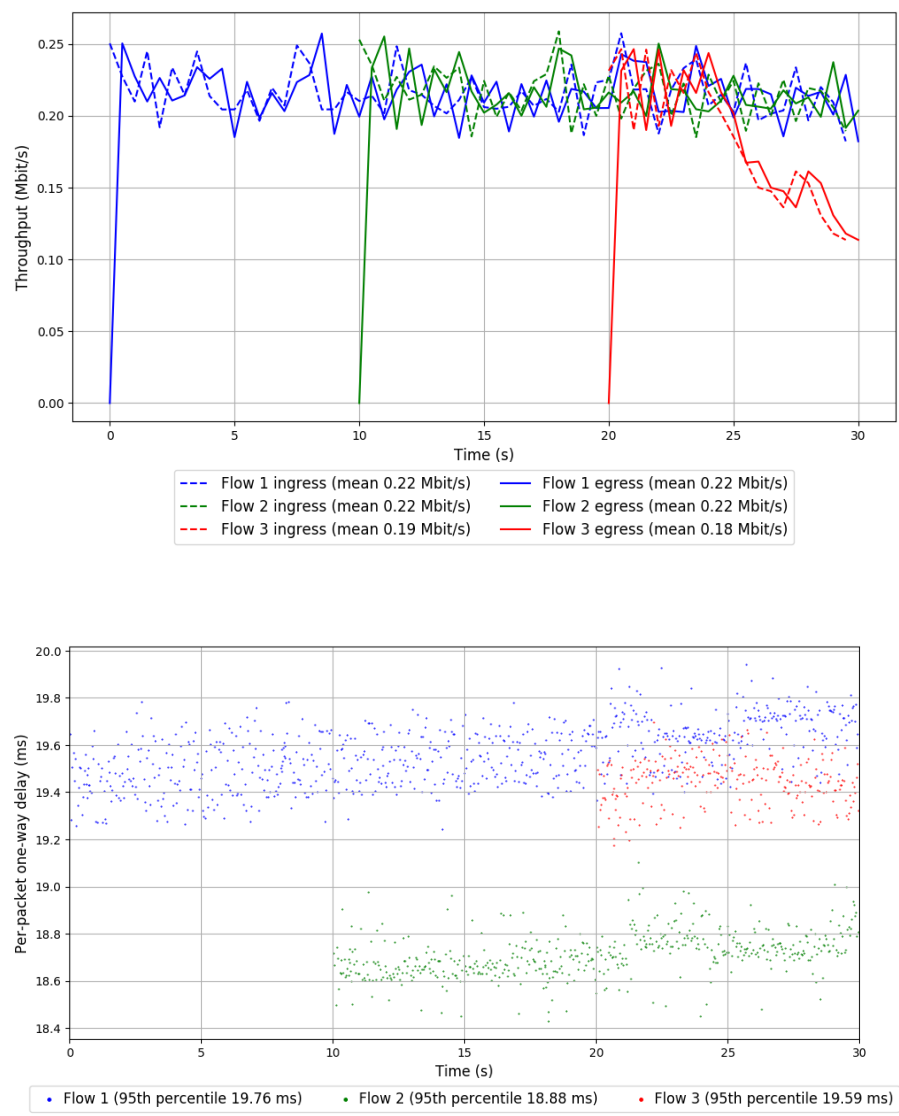


Run 3: Statistics of SReAM

Start at: 2018-07-03 19:34:41
End at: 2018-07-03 19:35:11
Local clock offset: -2.479 ms
Remote clock offset: -0.994 ms

Below is generated by plot.py at 2018-07-04 00:47:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 19.726 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.763 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.881 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 19.591 ms
Loss rate: 0.49%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-07-03 20:01:50

End at: 2018-07-03 20:02:20

Local clock offset: 0.762 ms

Remote clock offset: 2.6 ms

Below is generated by plot.py at 2018-07-04 00:47:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.269 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.268 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.202 ms

Loss rate: 0.00%

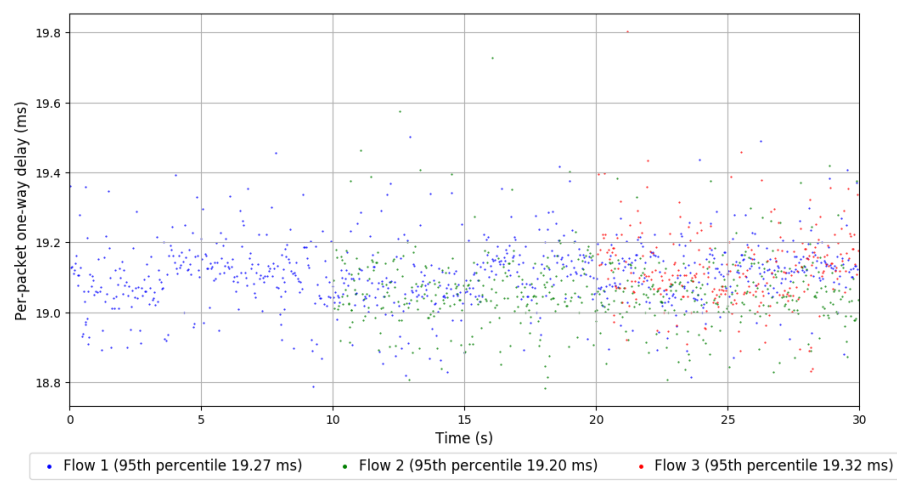
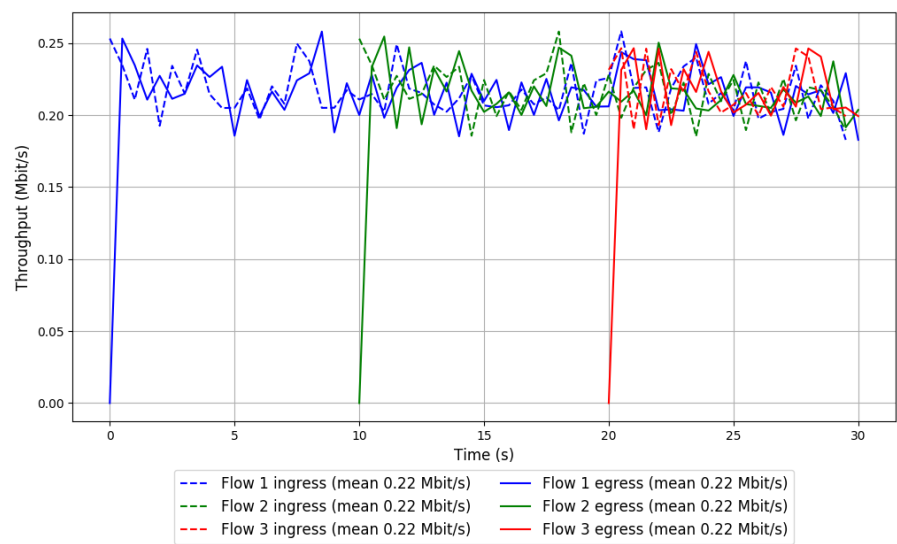
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.315 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-03 20:29:04

End at: 2018-07-03 20:29:34

Local clock offset: 1.084 ms

Remote clock offset: 3.025 ms

Below is generated by plot.py at 2018-07-04 00:47:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.347 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.380 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.248 ms

Loss rate: 0.00%

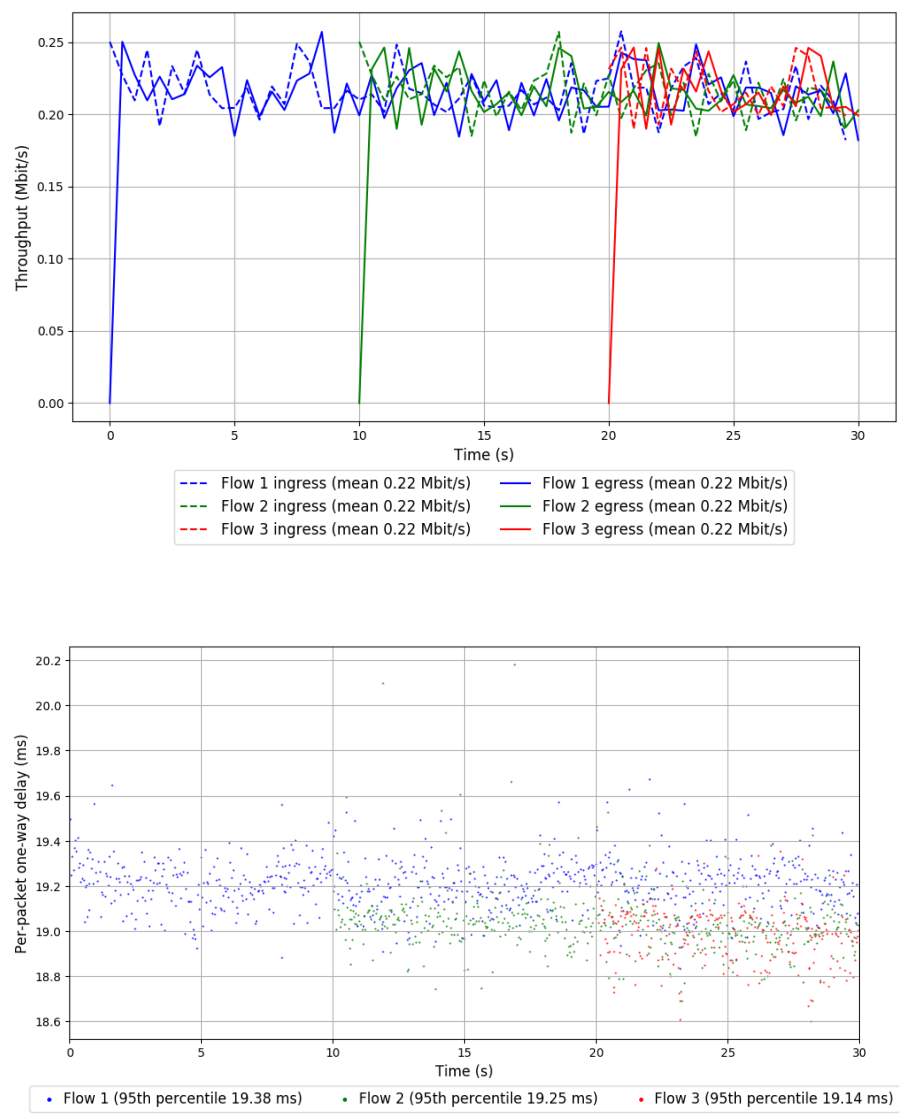
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.139 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-03 20:55:58

End at: 2018-07-03 20:56:28

Local clock offset: -2.823 ms

Remote clock offset: 1.615 ms

Below is generated by plot.py at 2018-07-04 00:47:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 19.532 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 19.381 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.414 ms

Loss rate: 0.00%

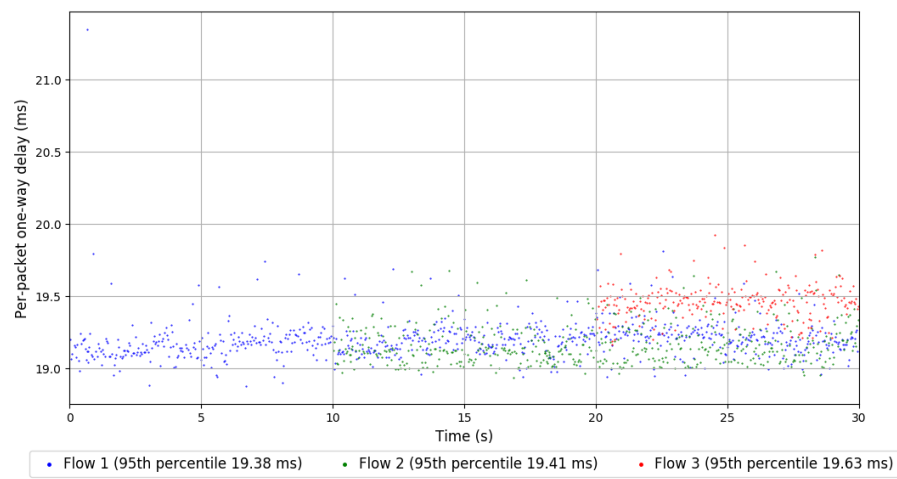
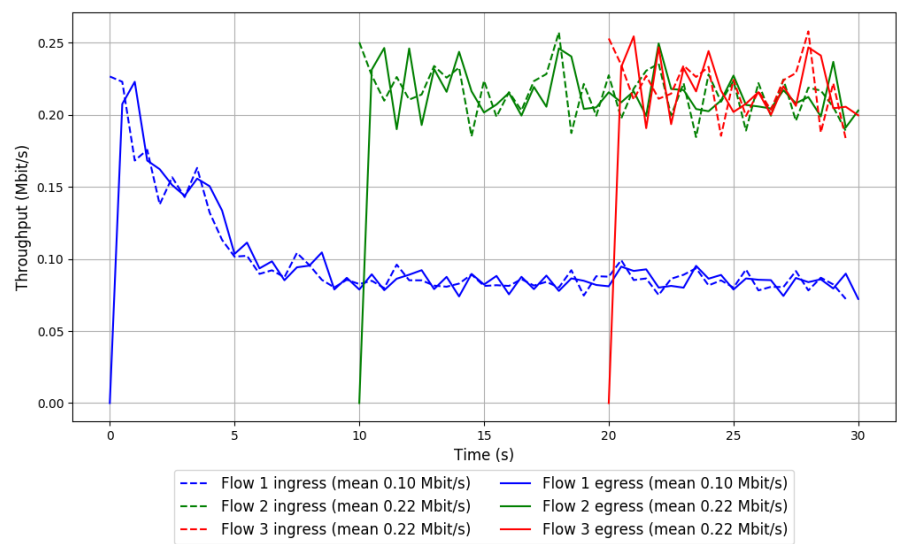
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.633 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

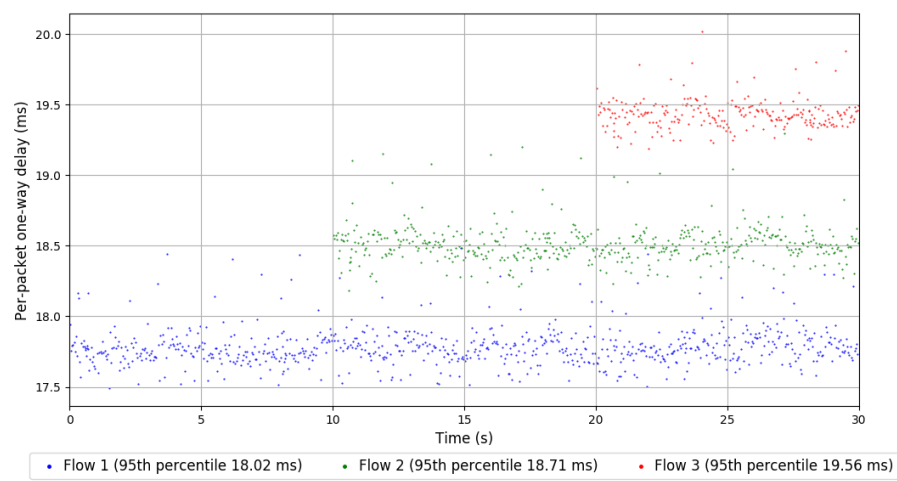
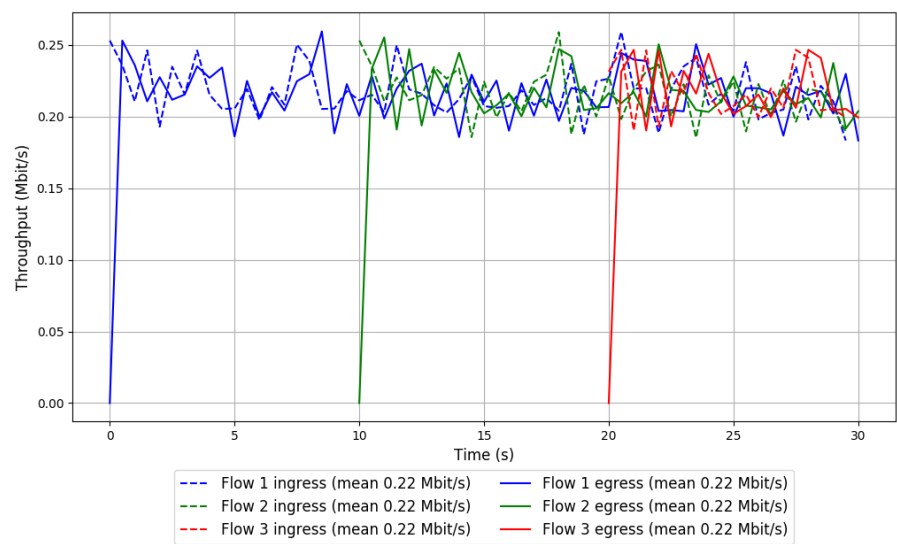


Run 7: Statistics of SReAM

Start at: 2018-07-03 21:23:11
End at: 2018-07-03 21:23:41
Local clock offset: 0.252 ms
Remote clock offset: -1.334 ms

Below is generated by plot.py at 2018-07-04 00:47:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.468 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.019 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.707 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.561 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

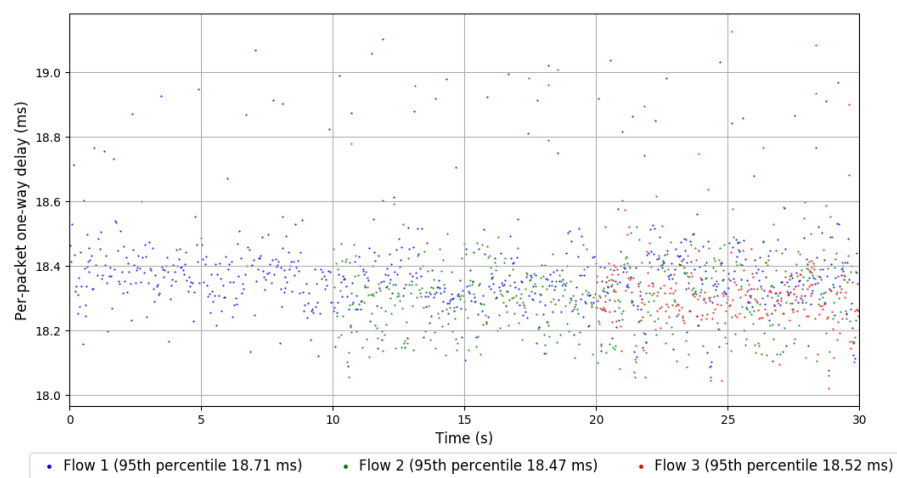
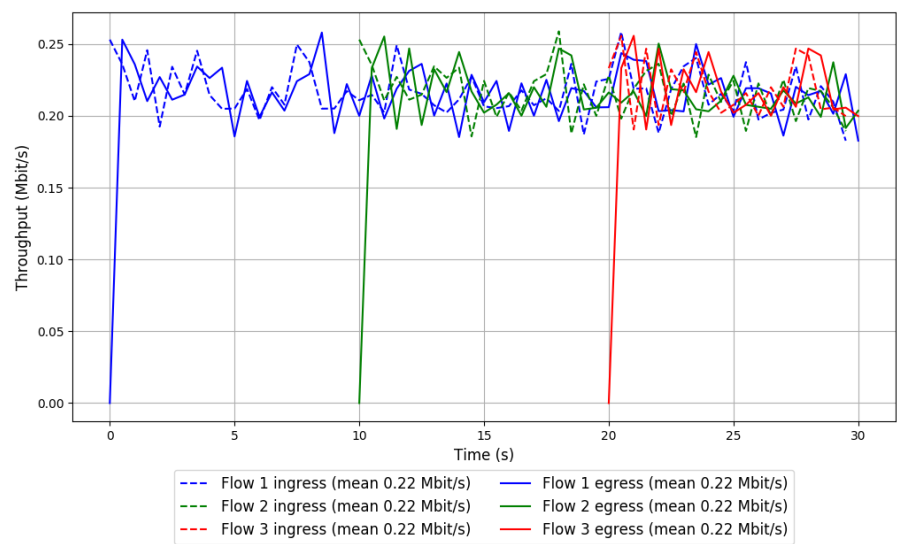


Run 8: Statistics of SReAM

Start at: 2018-07-03 21:50:27
End at: 2018-07-03 21:50:57
Local clock offset: 0.135 ms
Remote clock offset: -0.676 ms

Below is generated by plot.py at 2018-07-04 00:47:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 18.546 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.712 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.473 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.524 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-03 22:17:38

End at: 2018-07-03 22:18:08

Local clock offset: 0.339 ms

Remote clock offset: 3.046 ms

Below is generated by plot.py at 2018-07-04 00:47:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.444 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.913 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.532 ms

Loss rate: 0.00%

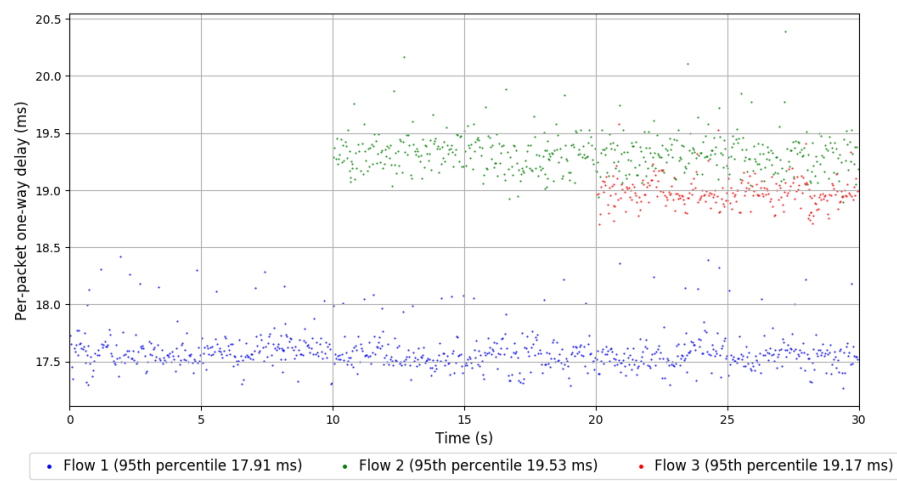
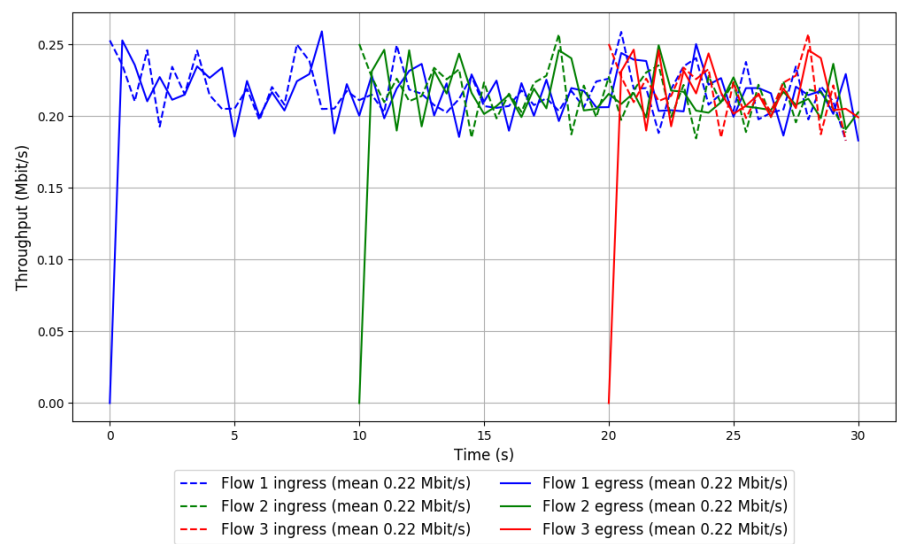
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.167 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-03 22:44:46

End at: 2018-07-03 22:45:16

Local clock offset: 0.237 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-07-04 00:47:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.617 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.806 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.484 ms

Loss rate: 0.00%

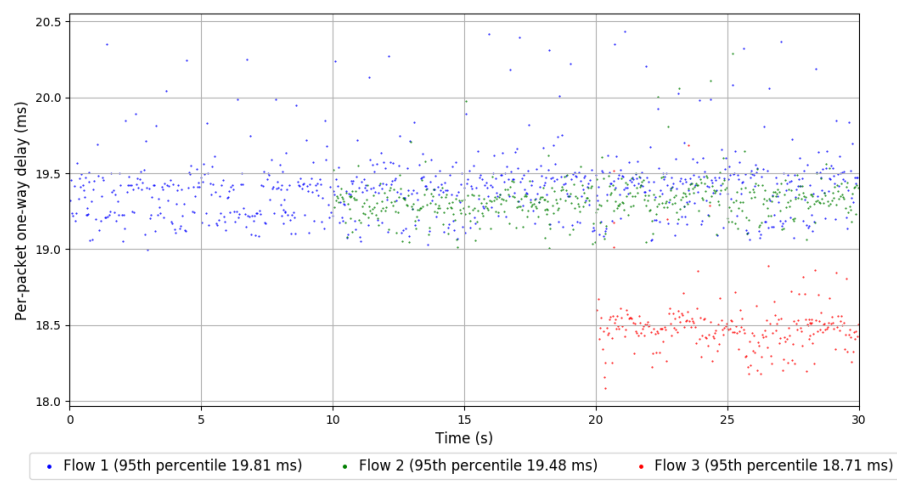
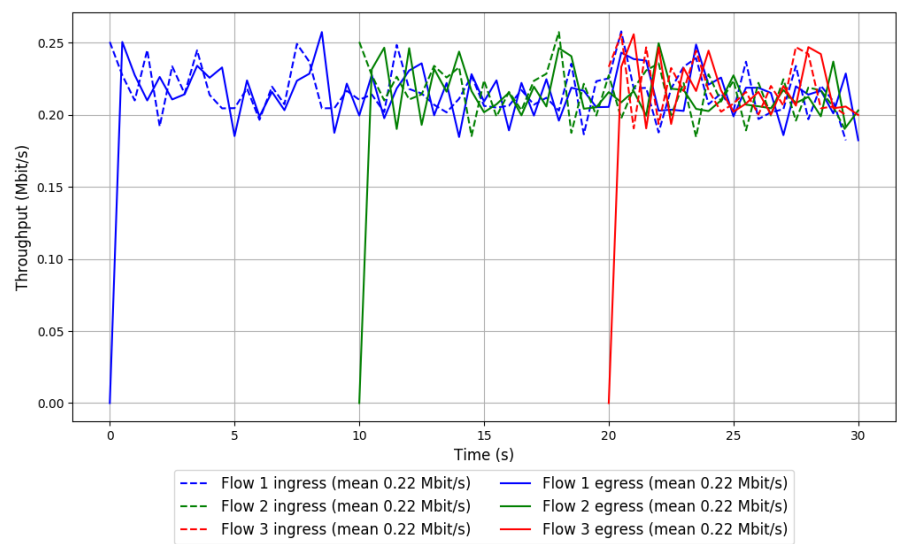
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.714 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-03 18:20:06

End at: 2018-07-03 18:20:36

Local clock offset: 0.465 ms

Remote clock offset: 0.479 ms

Below is generated by plot.py at 2018-07-04 00:47:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.23 Mbit/s

95th percentile per-packet one-way delay: 21.432 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 21.201 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.81 Mbit/s

95th percentile per-packet one-way delay: 21.716 ms

Loss rate: 0.10%

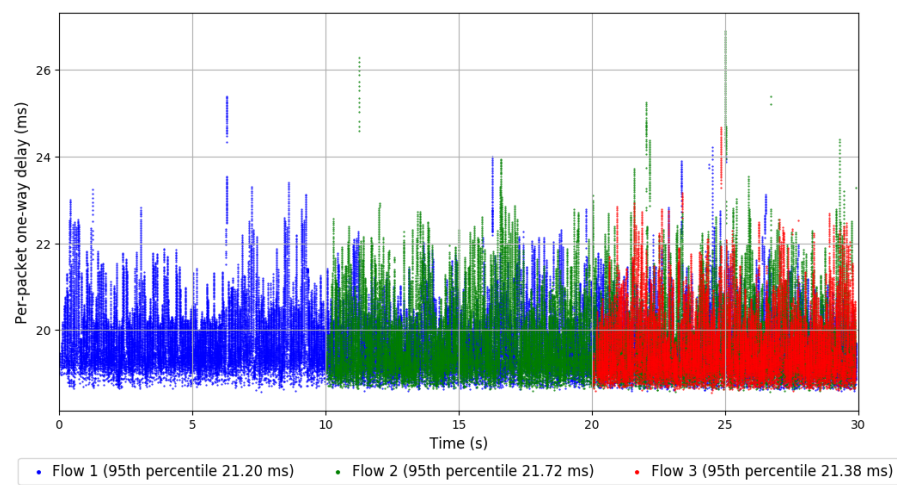
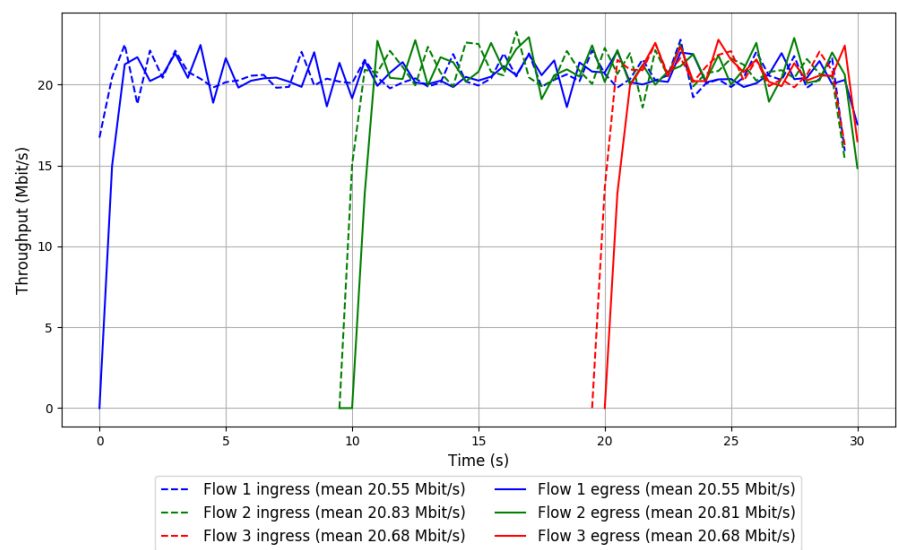
-- Flow 3:

Average throughput: 20.68 Mbit/s

95th percentile per-packet one-way delay: 21.384 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

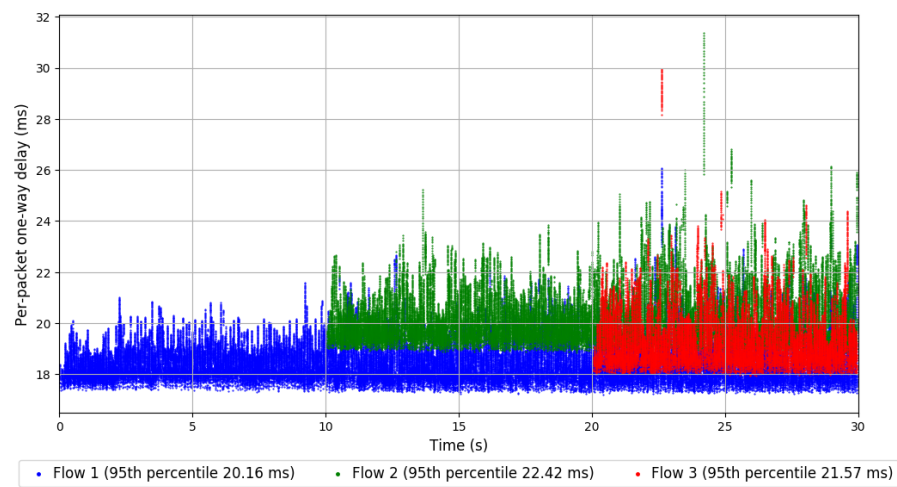
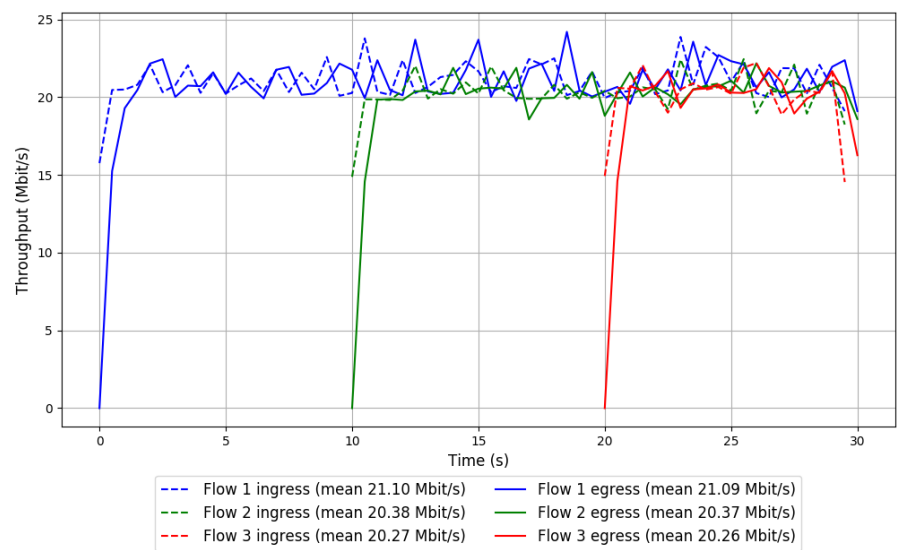


Run 2: Statistics of Sprout

Start at: 2018-07-03 18:46:14
End at: 2018-07-03 18:46:44
Local clock offset: -2.327 ms
Remote clock offset: 3.25 ms

Below is generated by plot.py at 2018-07-04 00:47:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.34 Mbit/s
95th percentile per-packet one-way delay: 21.643 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 21.09 Mbit/s
95th percentile per-packet one-way delay: 20.157 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 20.37 Mbit/s
95th percentile per-packet one-way delay: 22.423 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 21.574 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

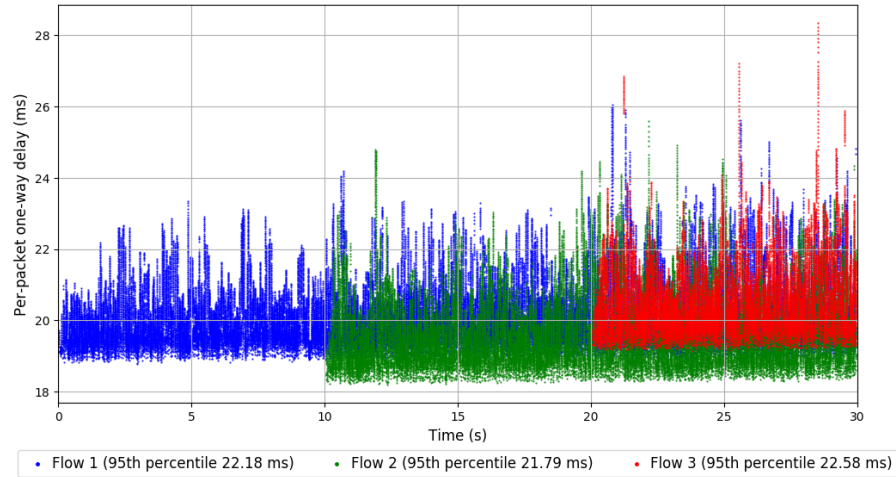
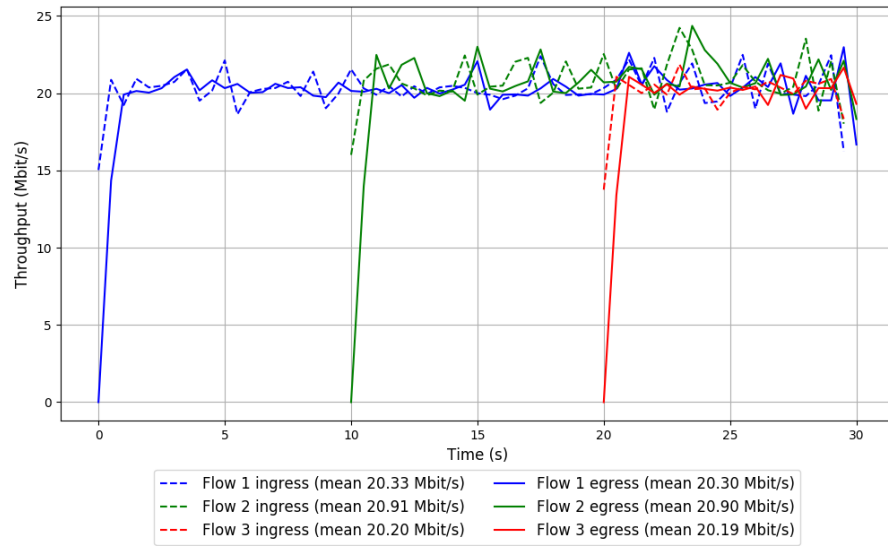


Run 3: Statistics of Sprout

Start at: 2018-07-03 19:13:50
End at: 2018-07-03 19:14:20
Local clock offset: -2.857 ms
Remote clock offset: 2.659 ms

Below is generated by plot.py at 2018-07-04 00:47:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.88 Mbit/s
95th percentile per-packet one-way delay: 22.159 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 20.30 Mbit/s
95th percentile per-packet one-way delay: 22.176 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 20.90 Mbit/s
95th percentile per-packet one-way delay: 21.788 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 20.19 Mbit/s
95th percentile per-packet one-way delay: 22.578 ms
Loss rate: 0.05%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-03 19:40:48

End at: 2018-07-03 19:41:18

Local clock offset: -0.9 ms

Remote clock offset: -1.36 ms

Below is generated by plot.py at 2018-07-04 00:47:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.63 Mbit/s

95th percentile per-packet one-way delay: 21.856 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 20.80 Mbit/s

95th percentile per-packet one-way delay: 21.751 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 20.93 Mbit/s

95th percentile per-packet one-way delay: 21.797 ms

Loss rate: 0.08%

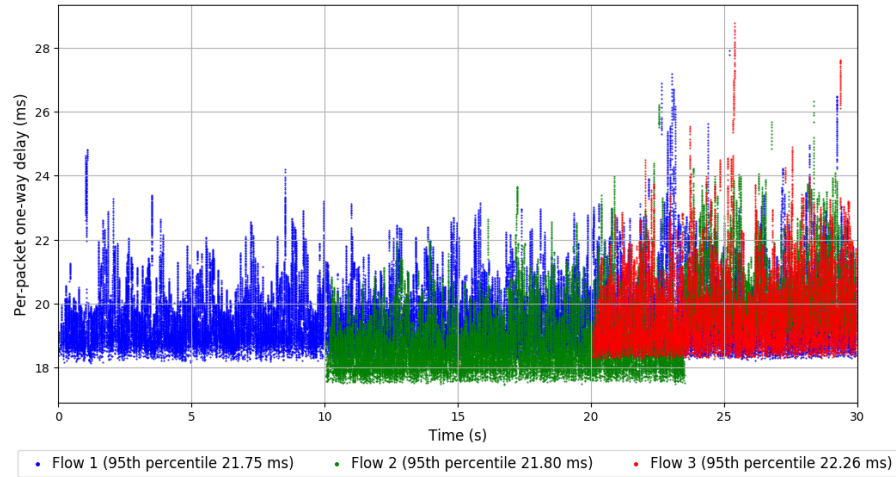
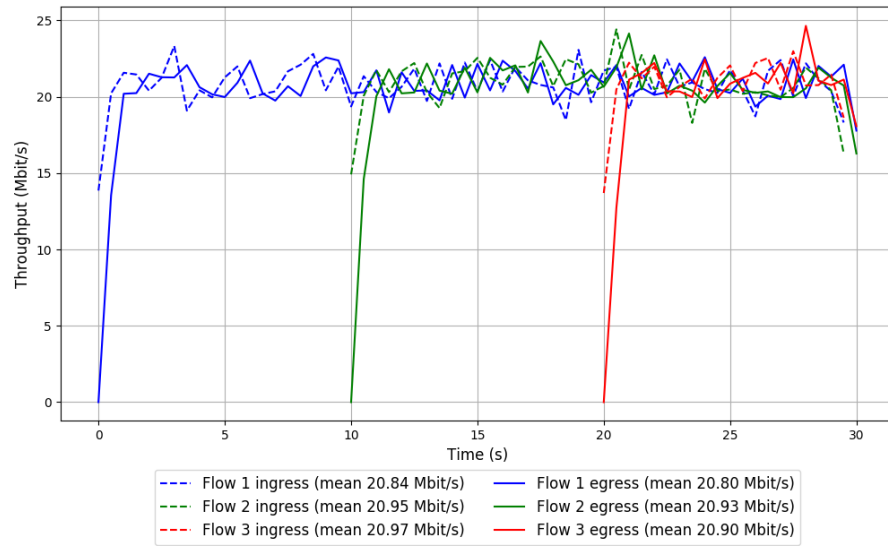
-- Flow 3:

Average throughput: 20.90 Mbit/s

95th percentile per-packet one-way delay: 22.258 ms

Loss rate: 0.34%

Run 4: Report of Sprout — Data Link

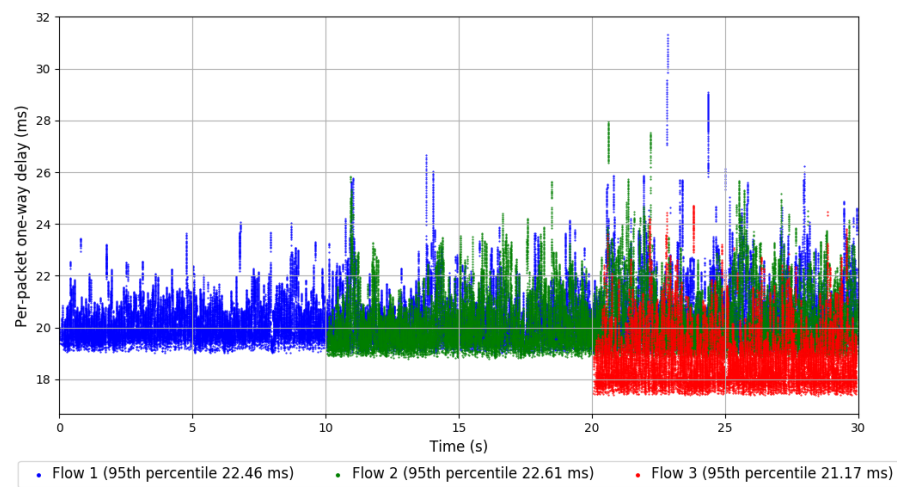
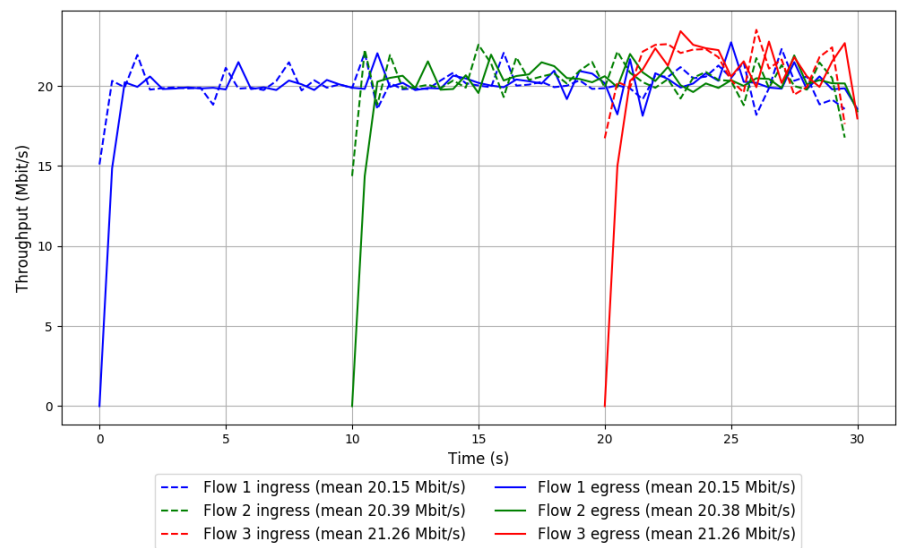


Run 5: Statistics of Sprout

Start at: 2018-07-03 20:08:01
End at: 2018-07-03 20:08:31
Local clock offset: 0.746 ms
Remote clock offset: 3.027 ms

```
# Below is generated by plot.py at 2018-07-04 00:47:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.73 Mbit/s
95th percentile per-packet one-way delay: 22.398 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 20.15 Mbit/s
95th percentile per-packet one-way delay: 22.461 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.38 Mbit/s
95th percentile per-packet one-way delay: 22.613 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 21.26 Mbit/s
95th percentile per-packet one-way delay: 21.170 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

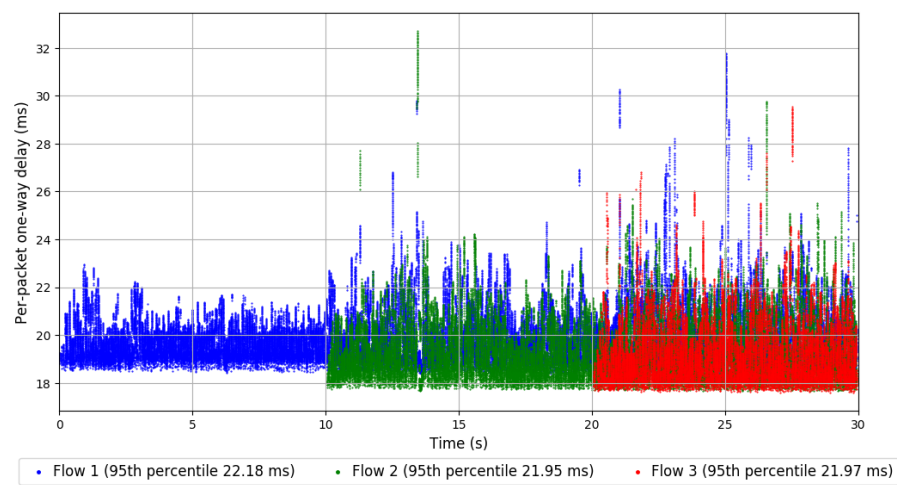
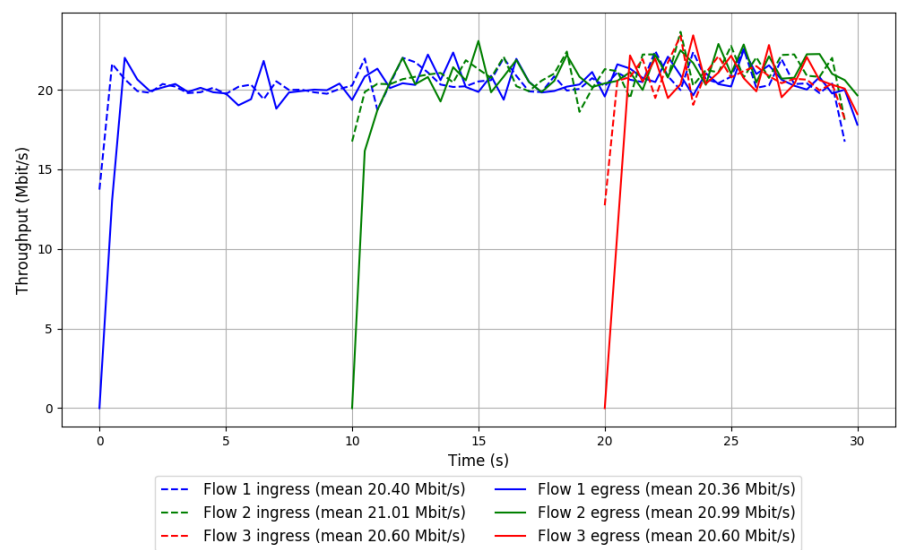


Run 6: Statistics of Sprout

Start at: 2018-07-03 20:35:12
End at: 2018-07-03 20:35:42
Local clock offset: 0.484 ms
Remote clock offset: 3.062 ms

Below is generated by plot.py at 2018-07-04 00:47:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.13 Mbit/s
95th percentile per-packet one-way delay: 22.080 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 20.36 Mbit/s
95th percentile per-packet one-way delay: 22.178 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 20.99 Mbit/s
95th percentile per-packet one-way delay: 21.947 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 20.60 Mbit/s
95th percentile per-packet one-way delay: 21.971 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

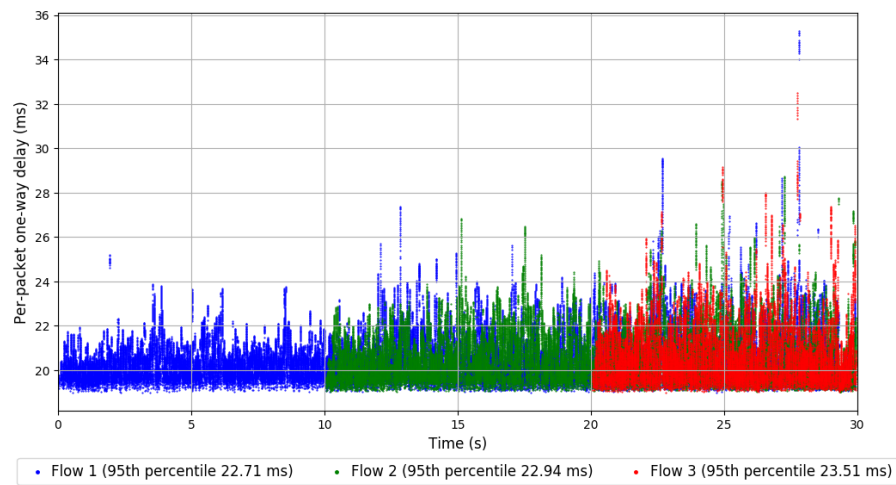
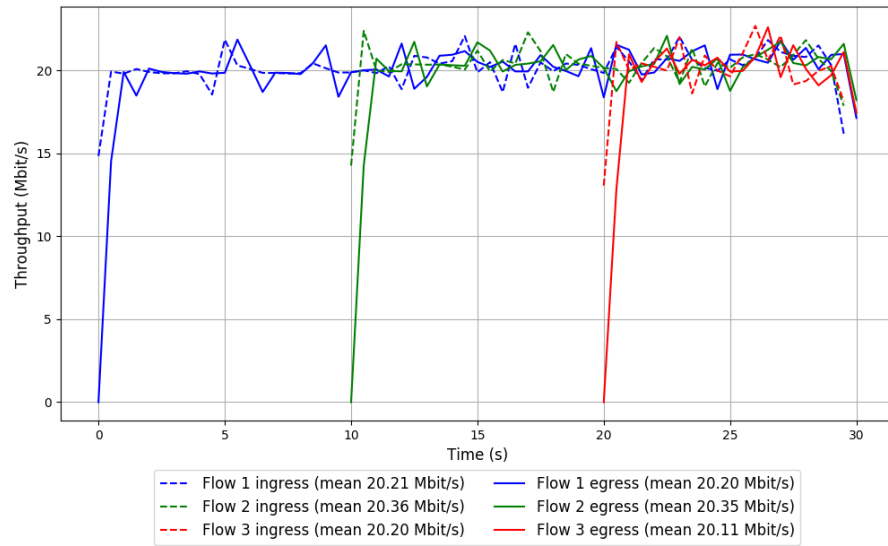


Run 7: Statistics of Sprout

Start at: 2018-07-03 21:02:14
End at: 2018-07-03 21:02:44
Local clock offset: -3.078 ms
Remote clock offset: 0.337 ms

Below is generated by plot.py at 2018-07-04 00:47:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.38 Mbit/s
95th percentile per-packet one-way delay: 22.932 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 20.20 Mbit/s
95th percentile per-packet one-way delay: 22.711 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 20.35 Mbit/s
95th percentile per-packet one-way delay: 22.939 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 20.11 Mbit/s
95th percentile per-packet one-way delay: 23.511 ms
Loss rate: 0.40%

Run 7: Report of Sprout — Data Link

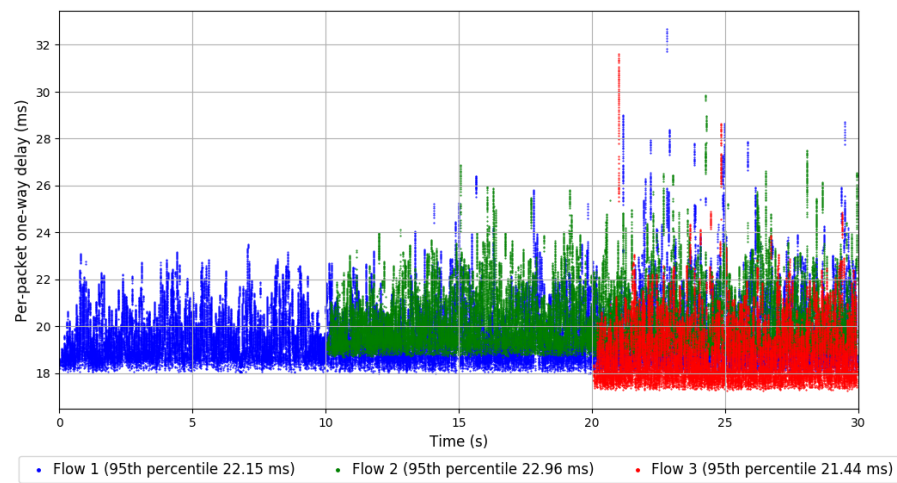
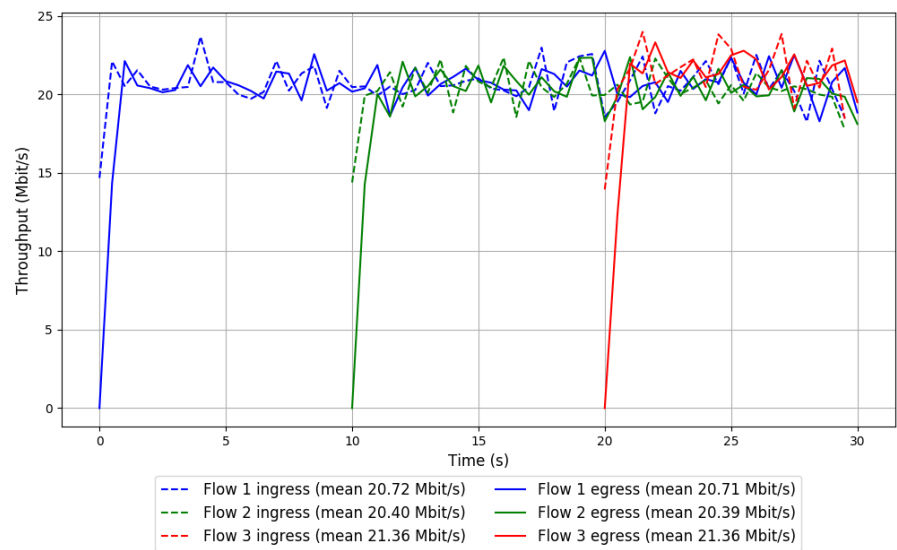


Run 8: Statistics of Sprout

Start at: 2018-07-03 21:29:20
End at: 2018-07-03 21:29:50
Local clock offset: 0.646 ms
Remote clock offset: -1.071 ms

```
# Below is generated by plot.py at 2018-07-04 00:47:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.33 Mbit/s
95th percentile per-packet one-way delay: 22.411 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 20.71 Mbit/s
95th percentile per-packet one-way delay: 22.154 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 20.39 Mbit/s
95th percentile per-packet one-way delay: 22.963 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.36 Mbit/s
95th percentile per-packet one-way delay: 21.439 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

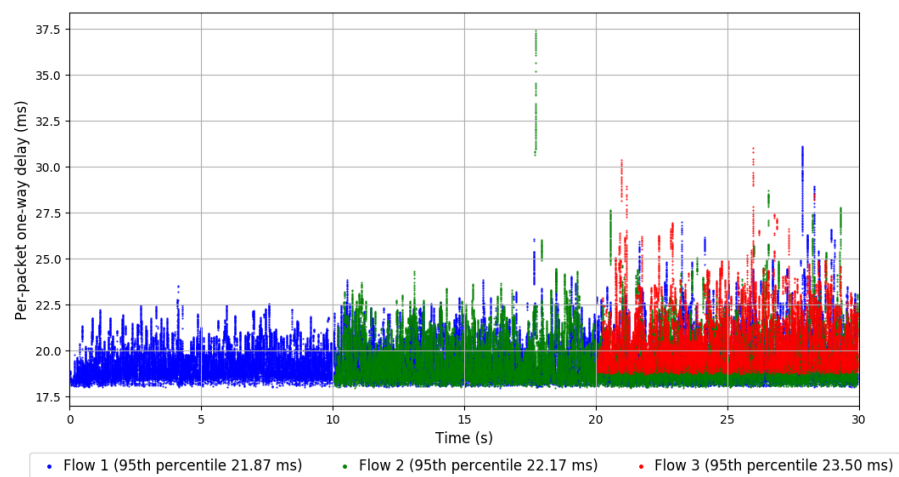
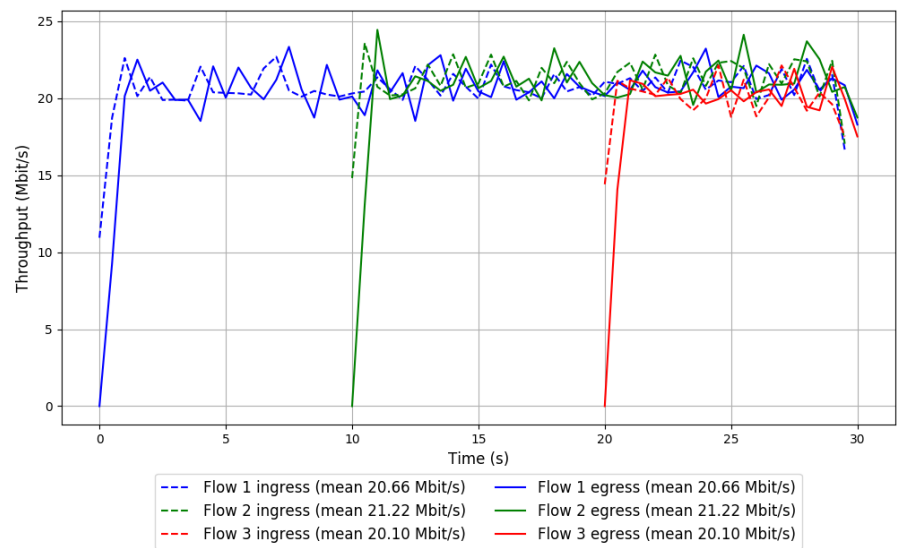


Run 9: Statistics of Sprout

Start at: 2018-07-03 21:56:42
End at: 2018-07-03 21:57:12
Local clock offset: 0.046 ms
Remote clock offset: -0.707 ms

```
# Below is generated by plot.py at 2018-07-04 00:47:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.41 Mbit/s
95th percentile per-packet one-way delay: 22.354 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 20.66 Mbit/s
95th percentile per-packet one-way delay: 21.870 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 21.22 Mbit/s
95th percentile per-packet one-way delay: 22.174 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.10 Mbit/s
95th percentile per-packet one-way delay: 23.495 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-03 22:23:47

End at: 2018-07-03 22:24:17

Local clock offset: 0.408 ms

Remote clock offset: 3.505 ms

Below is generated by plot.py at 2018-07-04 00:47:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.50 Mbit/s

95th percentile per-packet one-way delay: 23.167 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 20.34 Mbit/s

95th percentile per-packet one-way delay: 23.155 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 20.20 Mbit/s

95th percentile per-packet one-way delay: 23.251 ms

Loss rate: 0.00%

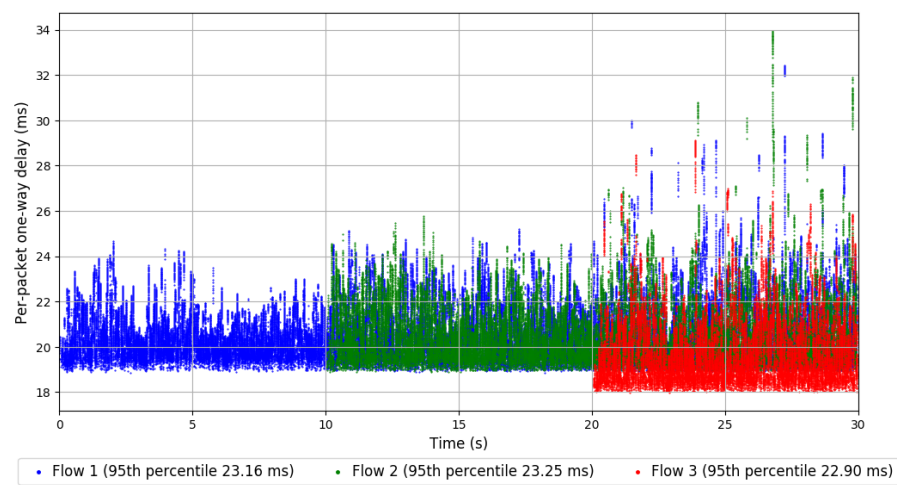
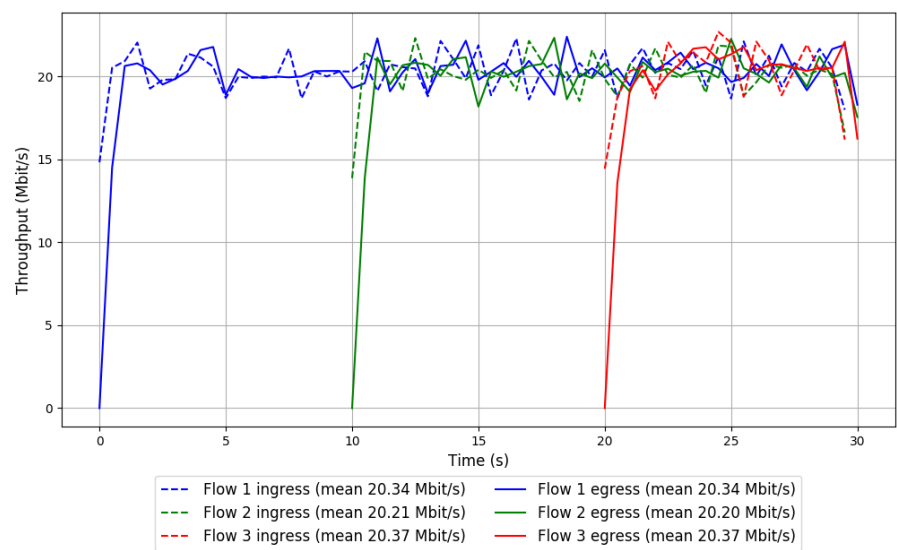
-- Flow 3:

Average throughput: 20.37 Mbit/s

95th percentile per-packet one-way delay: 22.899 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

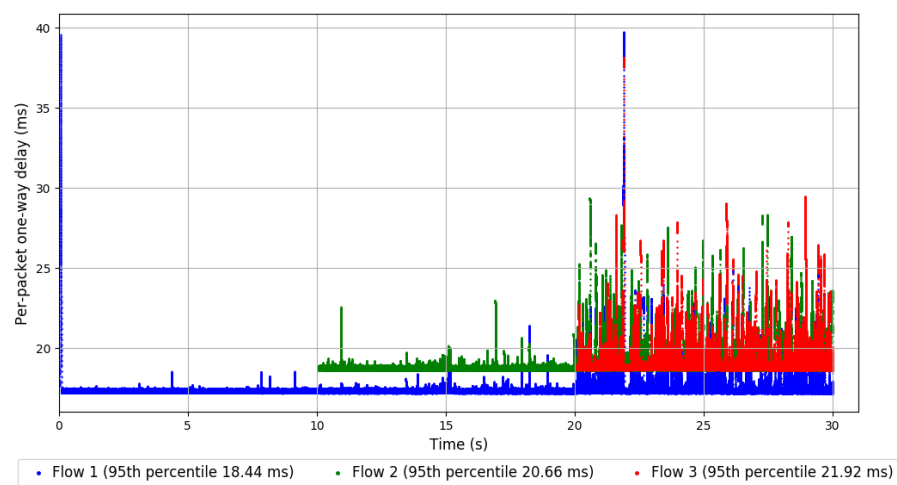
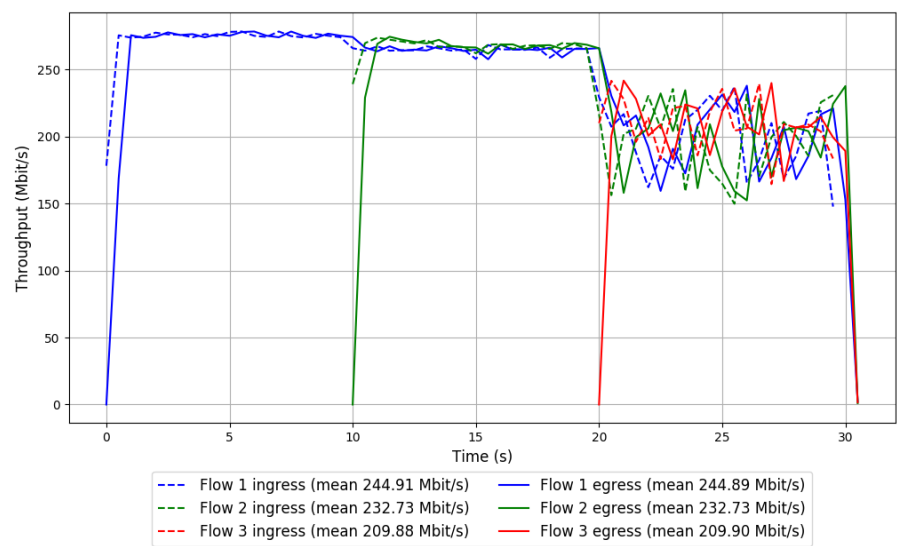


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-03 18:21:26
End at: 2018-07-03 18:21:56
Local clock offset: 0.488 ms
Remote clock offset: 0.601 ms

# Below is generated by plot.py at 2018-07-04 00:55:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 469.66 Mbit/s
95th percentile per-packet one-way delay: 20.196 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 244.89 Mbit/s
95th percentile per-packet one-way delay: 18.437 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 232.73 Mbit/s
95th percentile per-packet one-way delay: 20.658 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 209.90 Mbit/s
95th percentile per-packet one-way delay: 21.916 ms
Loss rate: 0.01%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-03 18:47:33

End at: 2018-07-03 18:48:03

Local clock offset: -2.356 ms

Remote clock offset: 3.315 ms

Below is generated by plot.py at 2018-07-04 00:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 469.36 Mbit/s

95th percentile per-packet one-way delay: 20.184 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 247.97 Mbit/s

95th percentile per-packet one-way delay: 19.720 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 236.41 Mbit/s

95th percentile per-packet one-way delay: 20.502 ms

Loss rate: 0.01%

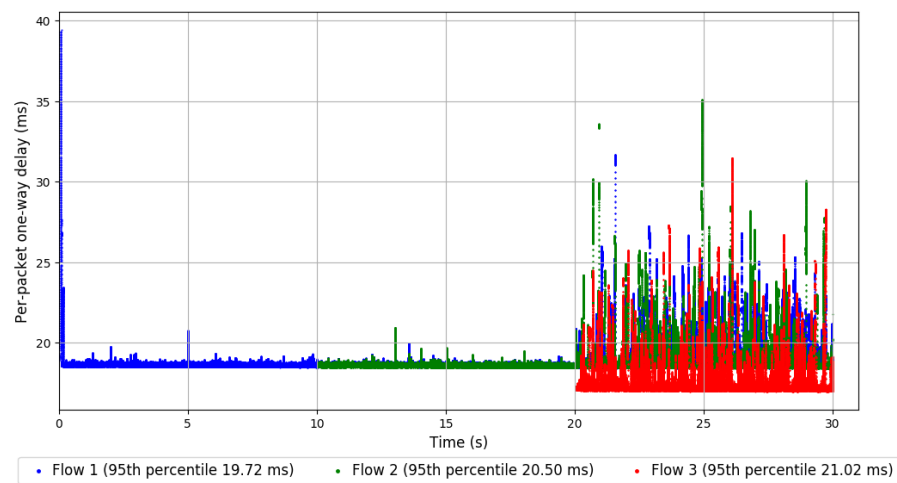
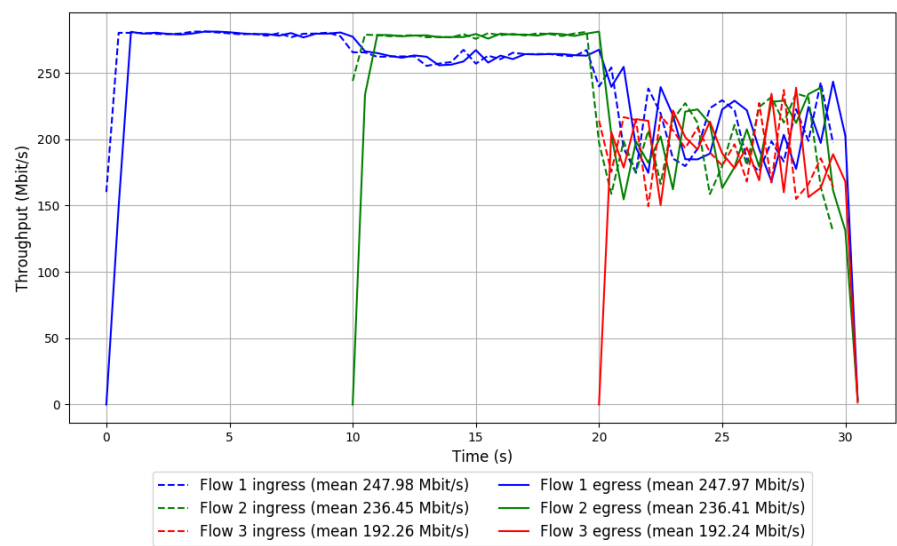
-- Flow 3:

Average throughput: 192.24 Mbit/s

95th percentile per-packet one-way delay: 21.025 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-03 19:15:10

End at: 2018-07-03 19:15:40

Local clock offset: -2.811 ms

Remote clock offset: 2.124 ms

Below is generated by plot.py at 2018-07-04 00:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 455.52 Mbit/s

95th percentile per-packet one-way delay: 20.327 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 232.76 Mbit/s

95th percentile per-packet one-way delay: 18.571 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 230.94 Mbit/s

95th percentile per-packet one-way delay: 19.830 ms

Loss rate: 0.00%

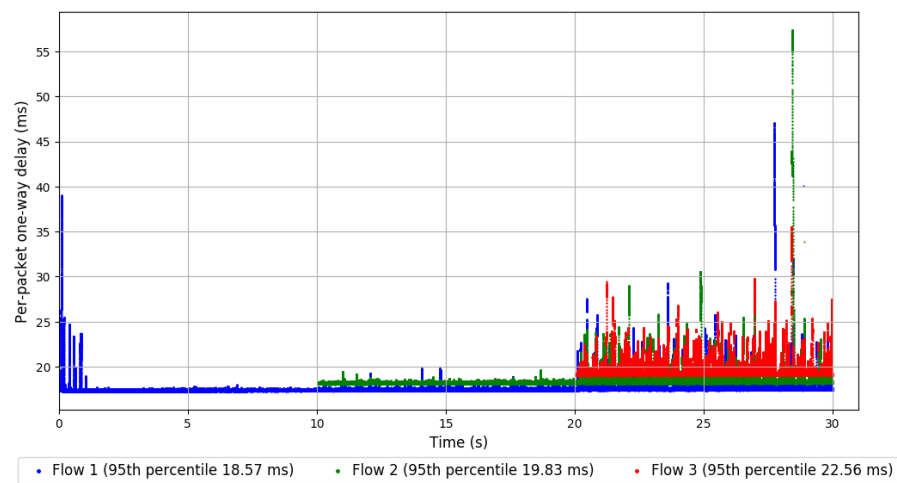
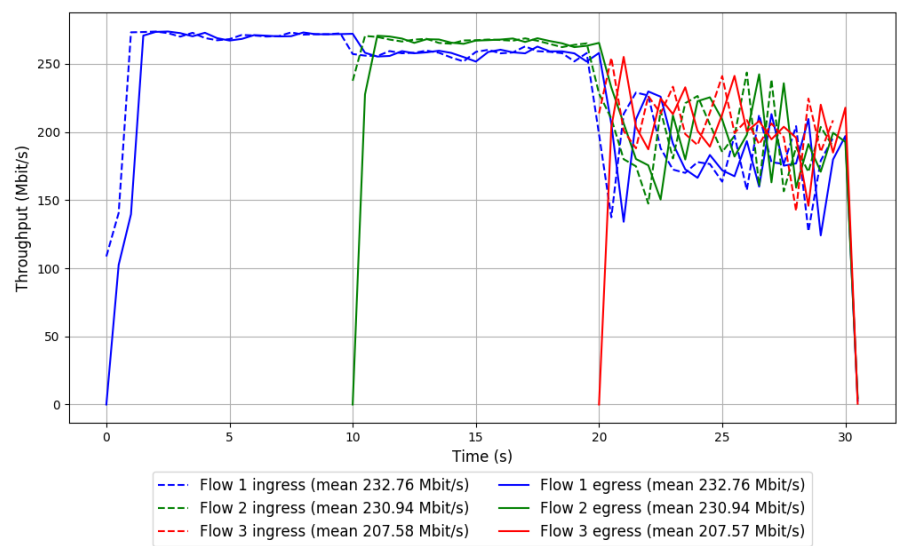
-- Flow 3:

Average throughput: 207.57 Mbit/s

95th percentile per-packet one-way delay: 22.562 ms

Loss rate: 0.00%

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

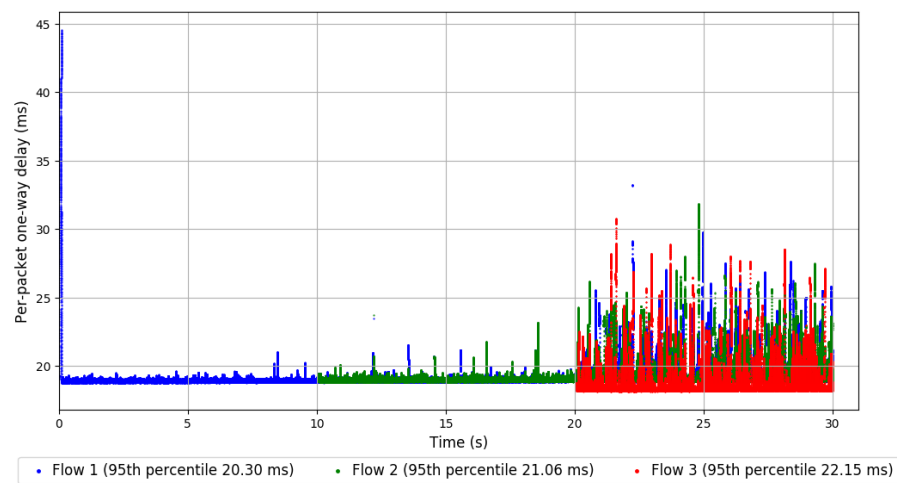
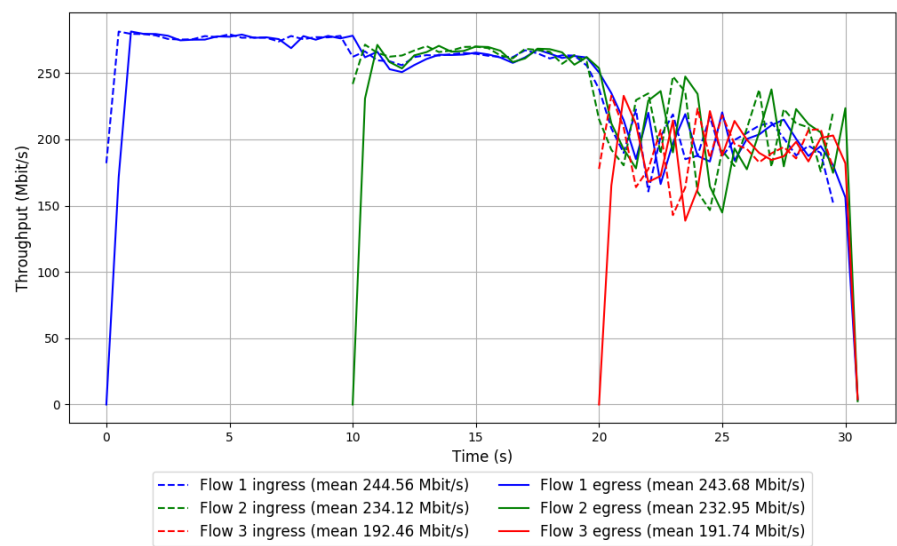


Run 4: Statistics of TaoVA-100x

Start at: 2018-07-03 19:42:08
End at: 2018-07-03 19:42:38
Local clock offset: -0.633 ms
Remote clock offset: -1.434 ms

Below is generated by plot.py at 2018-07-04 00:56:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 462.57 Mbit/s
95th percentile per-packet one-way delay: 20.907 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 243.68 Mbit/s
95th percentile per-packet one-way delay: 20.296 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 232.95 Mbit/s
95th percentile per-packet one-way delay: 21.064 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 191.74 Mbit/s
95th percentile per-packet one-way delay: 22.152 ms
Loss rate: 0.40%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-03 20:09:21

End at: 2018-07-03 20:09:51

Local clock offset: 0.829 ms

Remote clock offset: 3.001 ms

Below is generated by plot.py at 2018-07-04 00:57:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 458.53 Mbit/s

95th percentile per-packet one-way delay: 20.336 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 244.39 Mbit/s

95th percentile per-packet one-way delay: 19.949 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 223.60 Mbit/s

95th percentile per-packet one-way delay: 19.981 ms

Loss rate: 0.01%

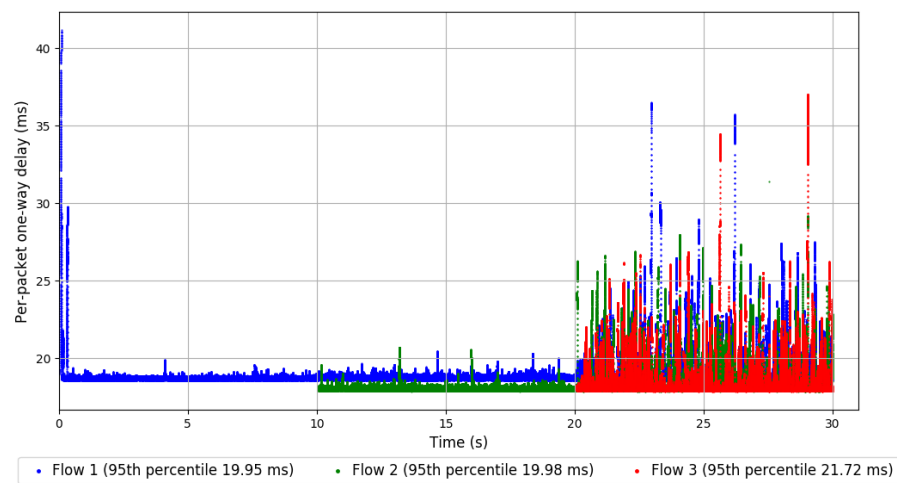
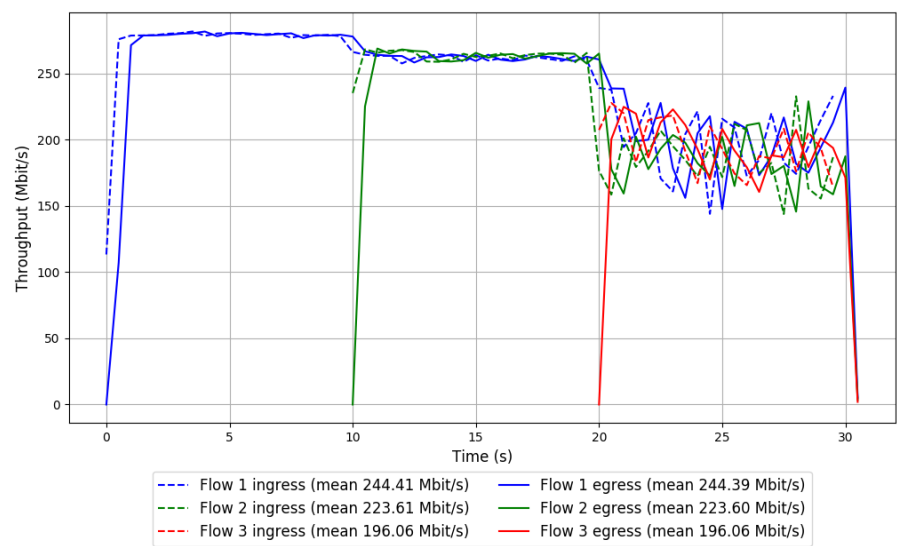
-- Flow 3:

Average throughput: 196.06 Mbit/s

95th percentile per-packet one-way delay: 21.723 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-03 20:36:32

End at: 2018-07-03 20:37:02

Local clock offset: -0.066 ms

Remote clock offset: 3.081 ms

Below is generated by plot.py at 2018-07-04 00:57:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 449.18 Mbit/s

95th percentile per-packet one-way delay: 20.351 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 236.99 Mbit/s

95th percentile per-packet one-way delay: 18.938 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 219.83 Mbit/s

95th percentile per-packet one-way delay: 20.513 ms

Loss rate: 0.01%

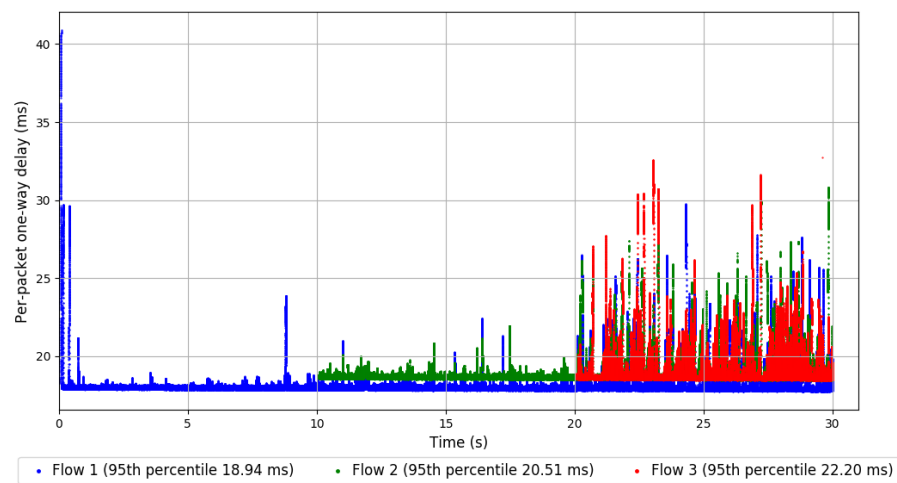
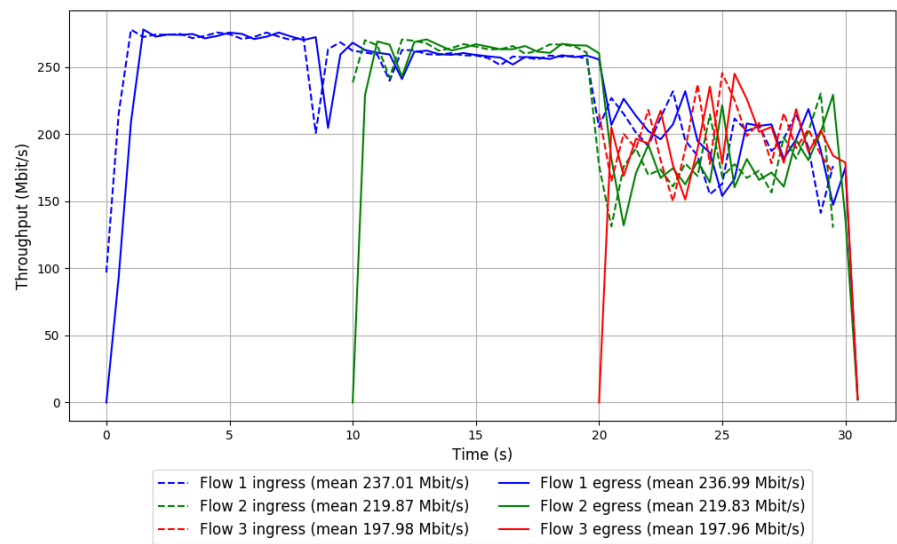
-- Flow 3:

Average throughput: 197.96 Mbit/s

95th percentile per-packet one-way delay: 22.204 ms

Loss rate: 0.01%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-03 21:03:34

End at: 2018-07-03 21:04:04

Local clock offset: -2.991 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2018-07-04 00:57:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 450.57 Mbit/s

95th percentile per-packet one-way delay: 20.839 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 237.11 Mbit/s

95th percentile per-packet one-way delay: 19.561 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 224.33 Mbit/s

95th percentile per-packet one-way delay: 21.580 ms

Loss rate: 0.00%

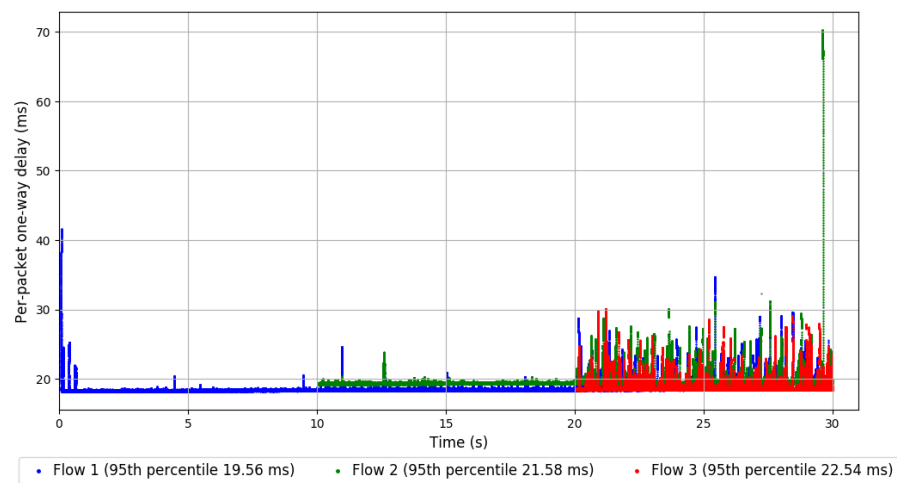
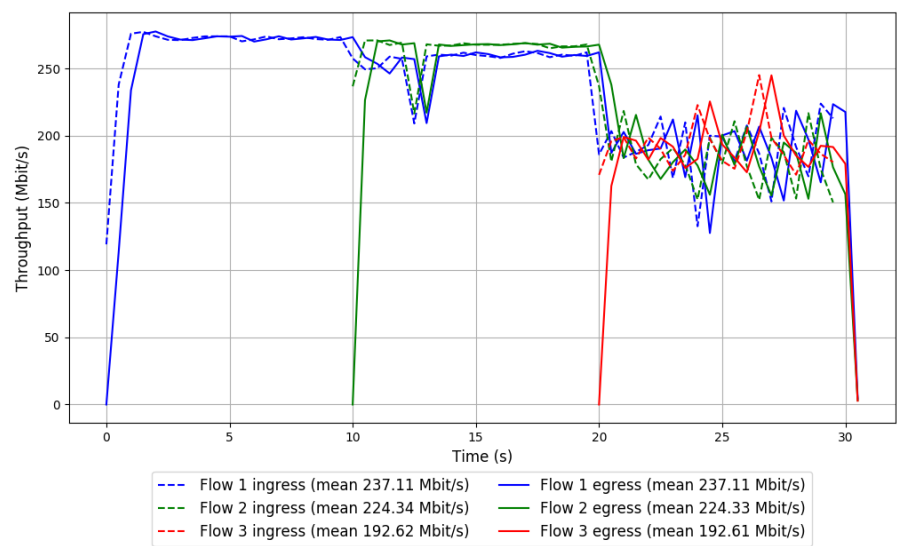
-- Flow 3:

Average throughput: 192.61 Mbit/s

95th percentile per-packet one-way delay: 22.535 ms

Loss rate: 0.01%

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

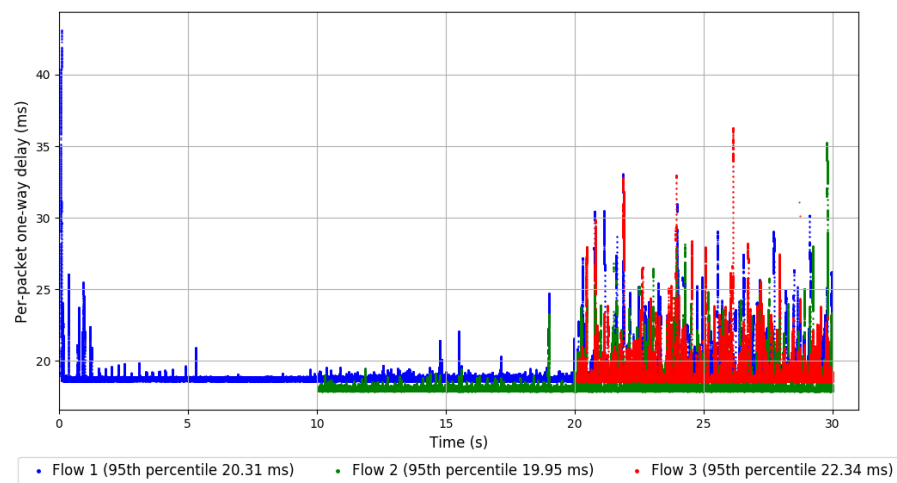
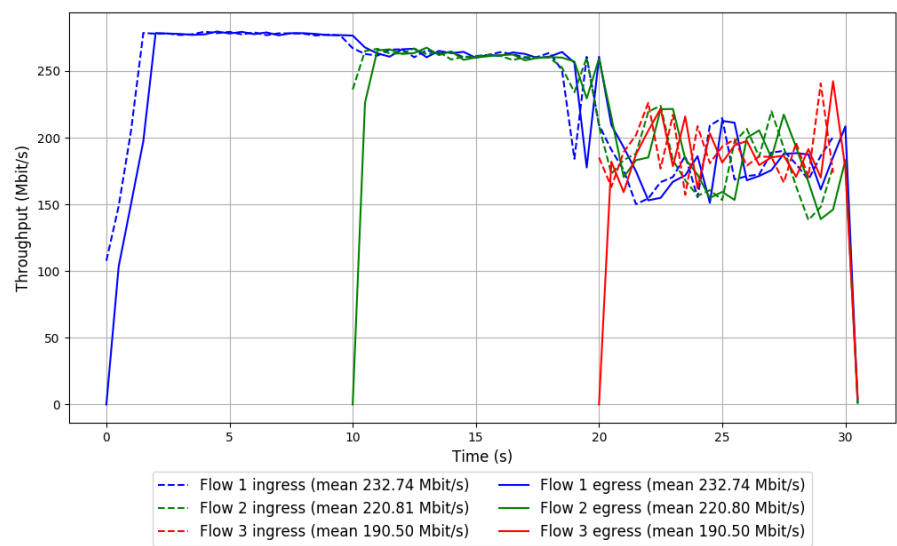


Run 8: Statistics of TaoVA-100x

Start at: 2018-07-03 21:30:41
End at: 2018-07-03 21:31:11
Local clock offset: 0.698 ms
Remote clock offset: -1.032 ms

Below is generated by plot.py at 2018-07-04 00:58:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 443.11 Mbit/s
95th percentile per-packet one-way delay: 20.681 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 232.74 Mbit/s
95th percentile per-packet one-way delay: 20.307 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 220.80 Mbit/s
95th percentile per-packet one-way delay: 19.955 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 190.50 Mbit/s
95th percentile per-packet one-way delay: 22.340 ms
Loss rate: 0.00%

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

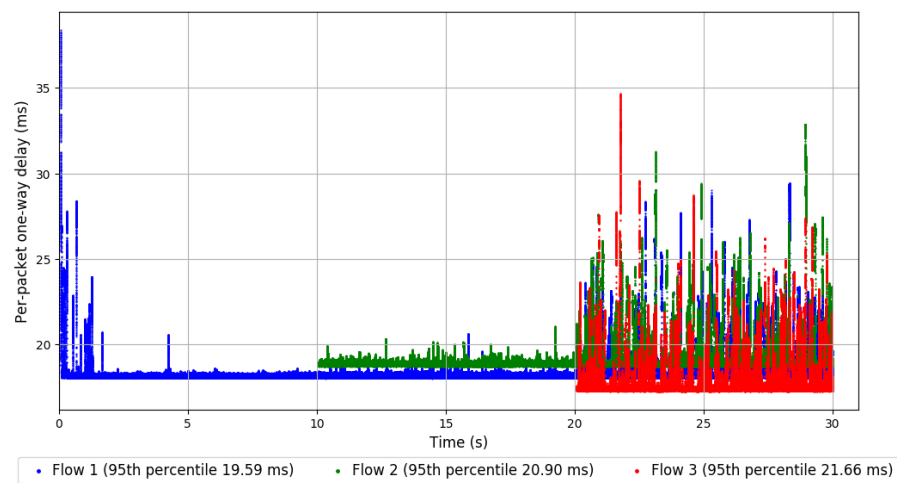
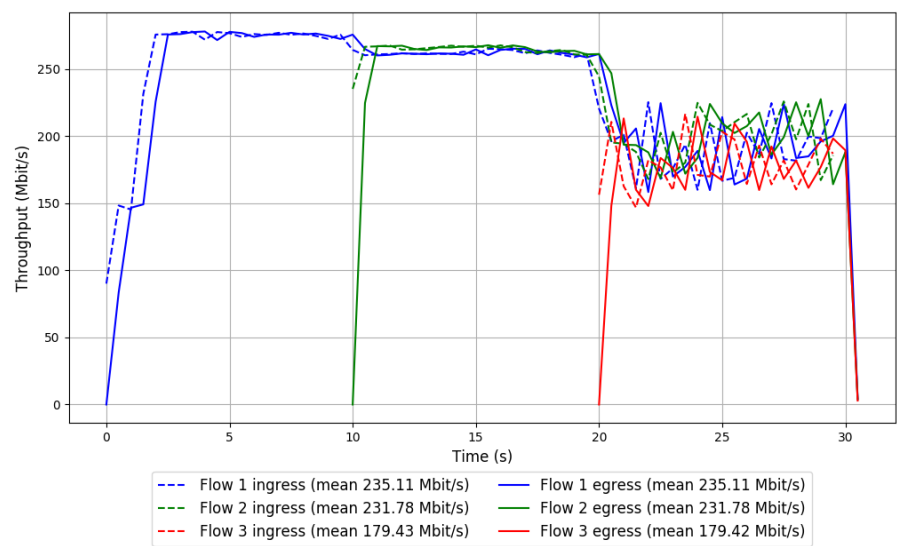


Run 9: Statistics of TaoVA-100x

Start at: 2018-07-03 21:58:02
End at: 2018-07-03 21:58:32
Local clock offset: -0.074 ms
Remote clock offset: -0.771 ms

Below is generated by plot.py at 2018-07-04 01:05:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 449.19 Mbit/s
95th percentile per-packet one-way delay: 20.424 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 235.11 Mbit/s
95th percentile per-packet one-way delay: 19.591 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 231.78 Mbit/s
95th percentile per-packet one-way delay: 20.900 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 179.42 Mbit/s
95th percentile per-packet one-way delay: 21.659 ms
Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-03 22:25:07

End at: 2018-07-03 22:25:37

Local clock offset: 0.312 ms

Remote clock offset: 3.565 ms

Below is generated by plot.py at 2018-07-04 01:06:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 458.03 Mbit/s

95th percentile per-packet one-way delay: 21.147 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 241.46 Mbit/s

95th percentile per-packet one-way delay: 20.705 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 229.54 Mbit/s

95th percentile per-packet one-way delay: 20.388 ms

Loss rate: 0.00%

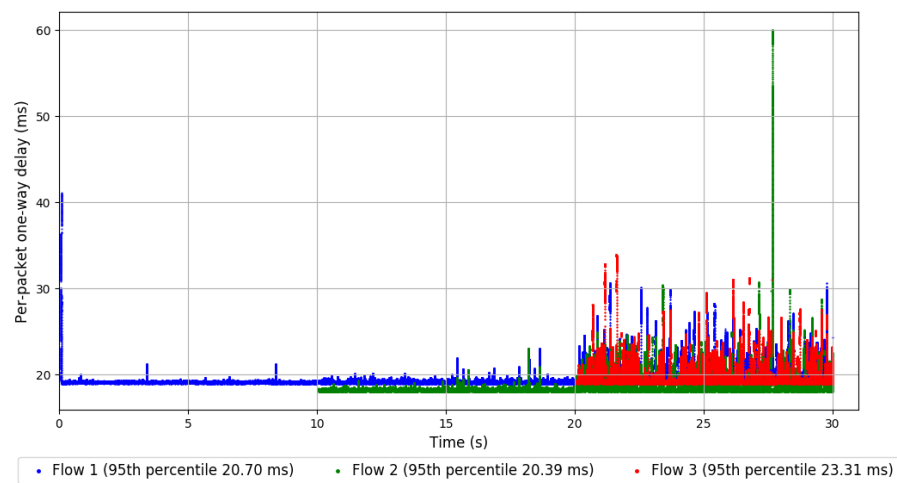
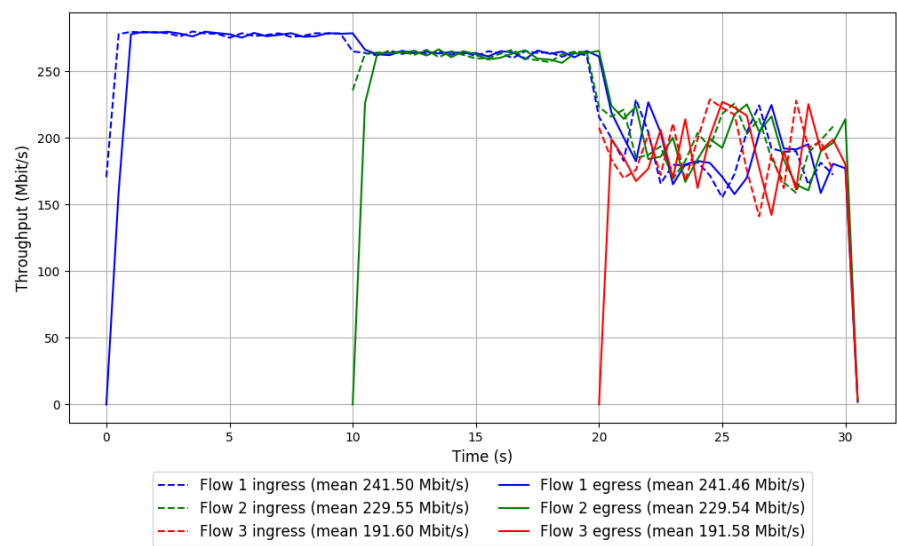
-- Flow 3:

Average throughput: 191.58 Mbit/s

95th percentile per-packet one-way delay: 23.314 ms

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-03 18:18:40

End at: 2018-07-03 18:19:10

Local clock offset: 0.432 ms

Remote clock offset: 0.367 ms

Below is generated by plot.py at 2018-07-04 01:06:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.23 Mbit/s

95th percentile per-packet one-way delay: 21.916 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 127.97 Mbit/s

95th percentile per-packet one-way delay: 20.318 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 159.27 Mbit/s

95th percentile per-packet one-way delay: 23.975 ms

Loss rate: 0.05%

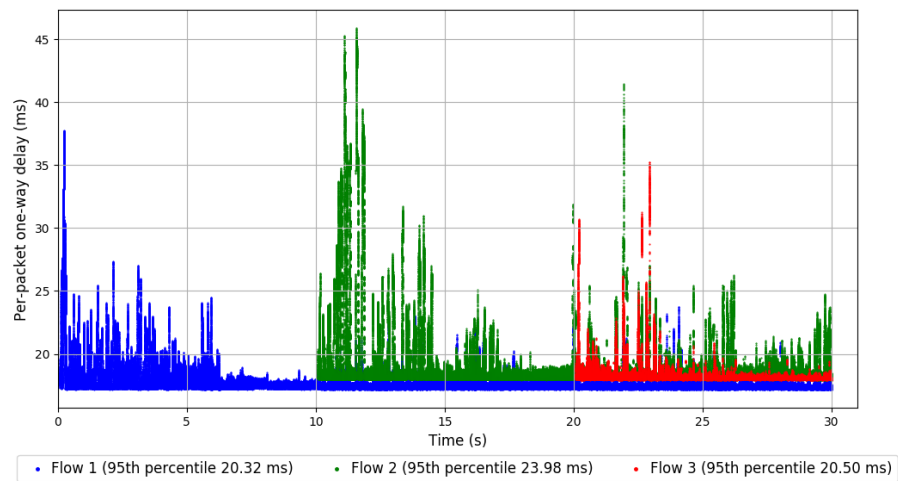
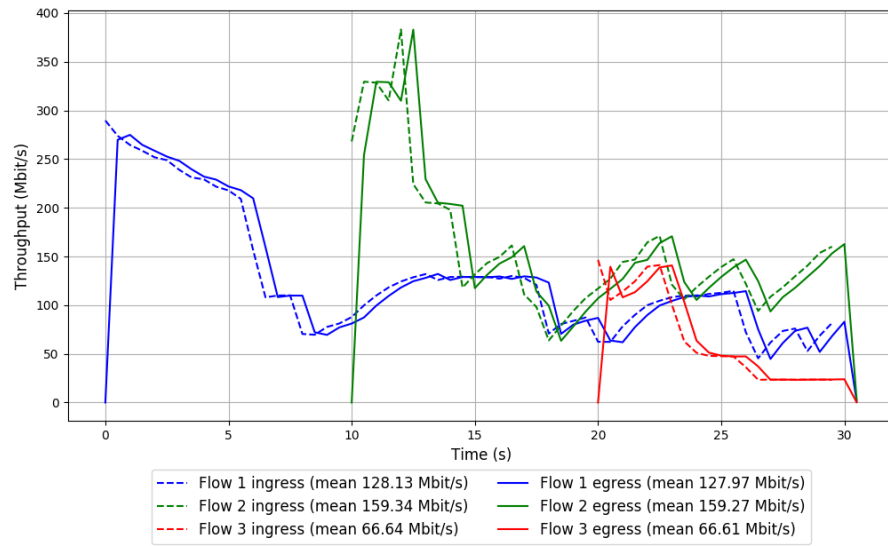
-- Flow 3:

Average throughput: 66.61 Mbit/s

95th percentile per-packet one-way delay: 20.495 ms

Loss rate: 0.04%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-03 18:44:51

End at: 2018-07-03 18:45:21

Local clock offset: -2.052 ms

Remote clock offset: 3.074 ms

Below is generated by plot.py at 2018-07-04 01:06:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.08 Mbit/s

95th percentile per-packet one-way delay: 21.366 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 22.081 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 42.01 Mbit/s

95th percentile per-packet one-way delay: 19.967 ms

Loss rate: 0.09%

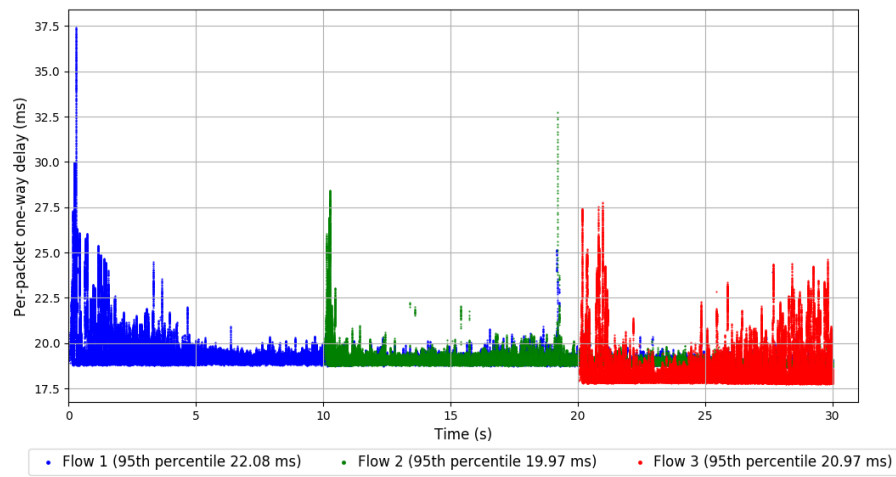
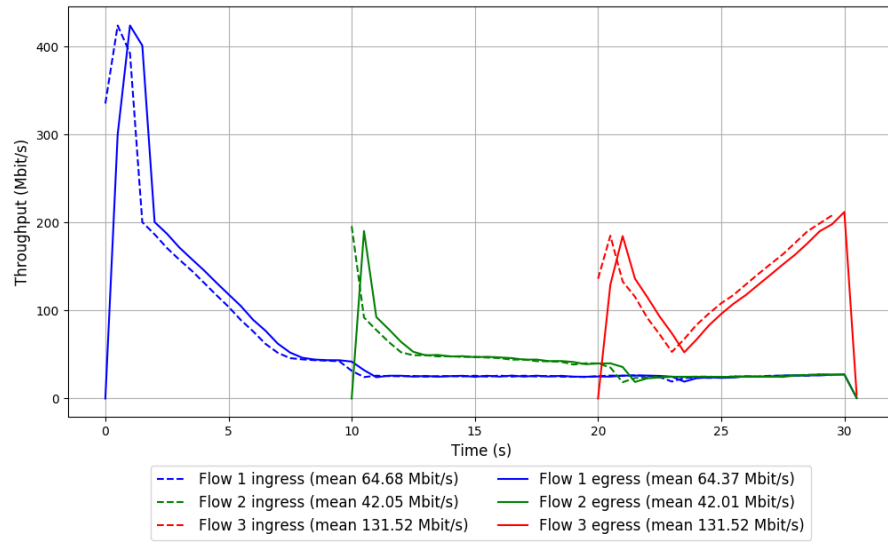
-- Flow 3:

Average throughput: 131.52 Mbit/s

95th percentile per-packet one-way delay: 20.971 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-03 19:12:27

End at: 2018-07-03 19:12:57

Local clock offset: -2.98 ms

Remote clock offset: 3.298 ms

Below is generated by plot.py at 2018-07-04 01:06:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.29 Mbit/s

95th percentile per-packet one-way delay: 21.962 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 32.75 Mbit/s

95th percentile per-packet one-way delay: 20.042 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 137.23 Mbit/s

95th percentile per-packet one-way delay: 22.902 ms

Loss rate: 0.02%

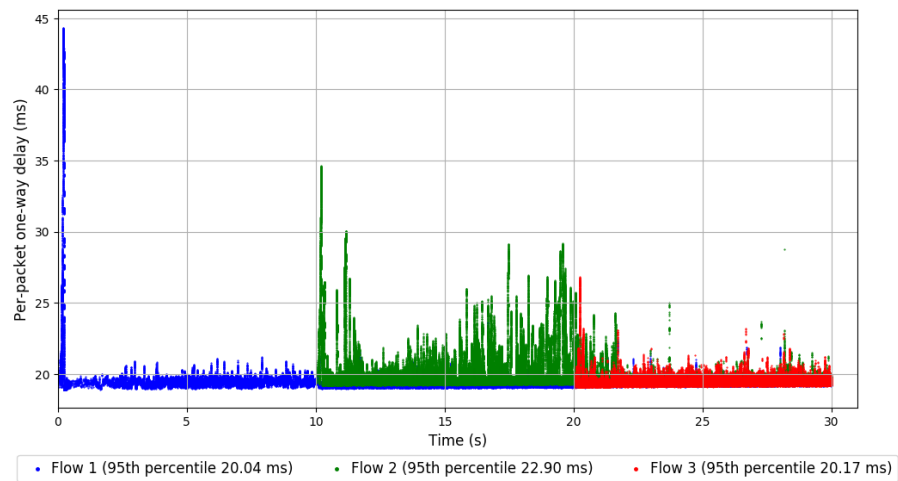
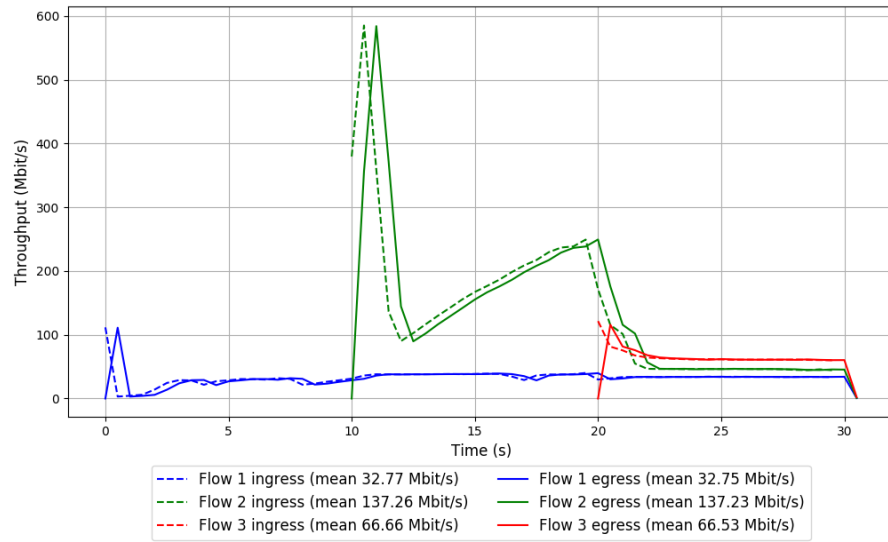
-- Flow 3:

Average throughput: 66.53 Mbit/s

95th percentile per-packet one-way delay: 20.173 ms

Loss rate: 0.18%

Run 3: Report of TCP Vegas — Data Link

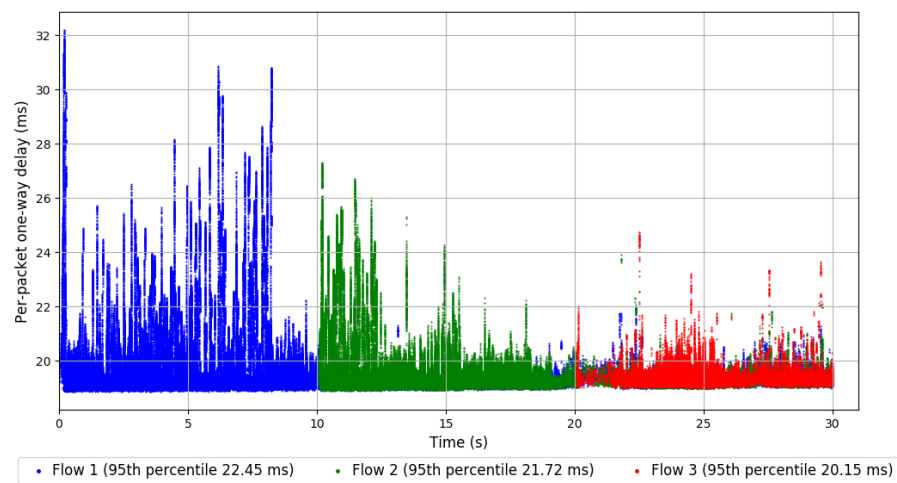
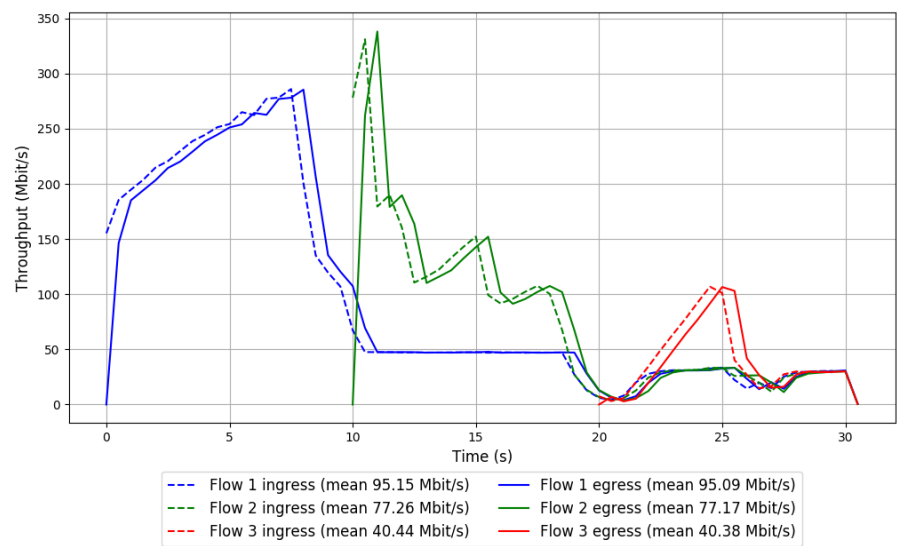


Run 4: Statistics of TCP Vegas

Start at: 2018-07-03 19:39:25
End at: 2018-07-03 19:39:55
Local clock offset: -1.22 ms
Remote clock offset: -1.286 ms

Below is generated by plot.py at 2018-07-04 01:06:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 159.93 Mbit/s
95th percentile per-packet one-way delay: 22.010 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 22.452 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 77.17 Mbit/s
95th percentile per-packet one-way delay: 21.724 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 40.38 Mbit/s
95th percentile per-packet one-way delay: 20.147 ms
Loss rate: 0.12%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-03 20:06:35

End at: 2018-07-03 20:07:05

Local clock offset: 0.84 ms

Remote clock offset: 2.885 ms

Below is generated by plot.py at 2018-07-04 01:06:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.61 Mbit/s

95th percentile per-packet one-way delay: 22.987 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 53.45 Mbit/s

95th percentile per-packet one-way delay: 21.171 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 175.80 Mbit/s

95th percentile per-packet one-way delay: 23.069 ms

Loss rate: 0.02%

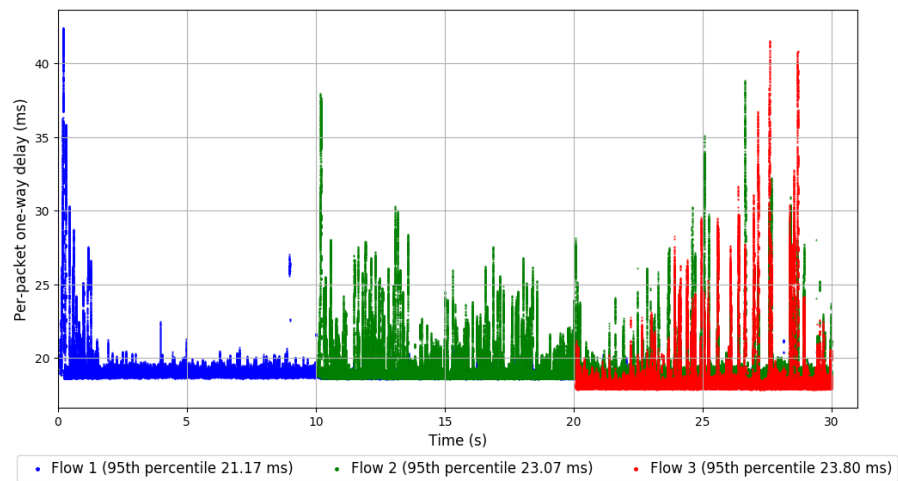
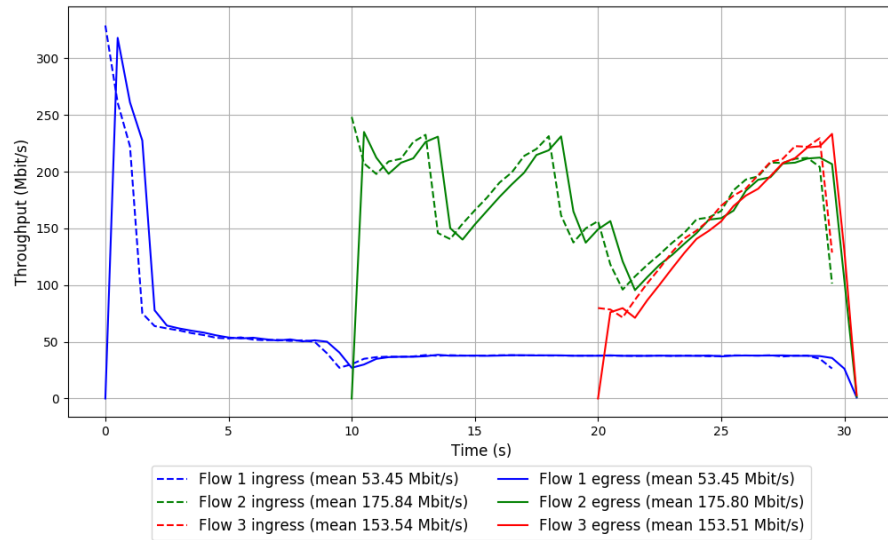
-- Flow 3:

Average throughput: 153.51 Mbit/s

95th percentile per-packet one-way delay: 23.798 ms

Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-03 20:33:46

End at: 2018-07-03 20:34:16

Local clock offset: 0.985 ms

Remote clock offset: 3.076 ms

Below is generated by plot.py at 2018-07-04 01:06:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 240.03 Mbit/s

95th percentile per-packet one-way delay: 22.835 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 165.36 Mbit/s

95th percentile per-packet one-way delay: 22.904 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 56.34 Mbit/s

95th percentile per-packet one-way delay: 21.803 ms

Loss rate: 0.17%

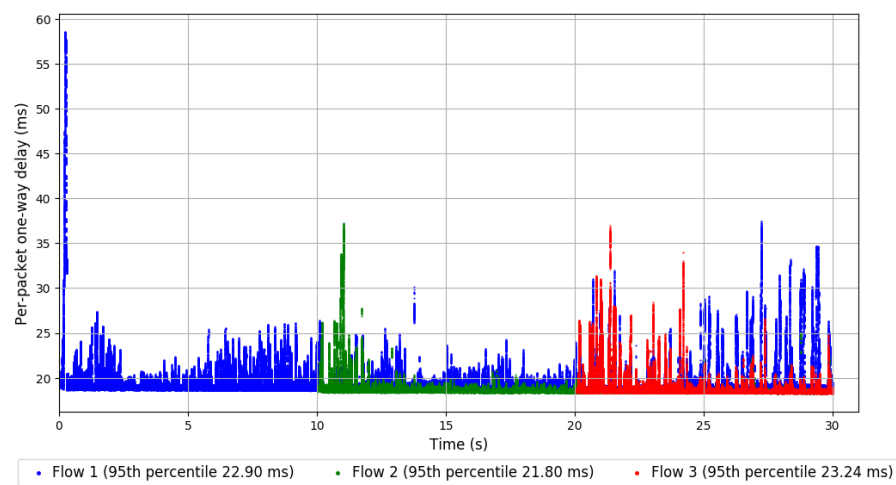
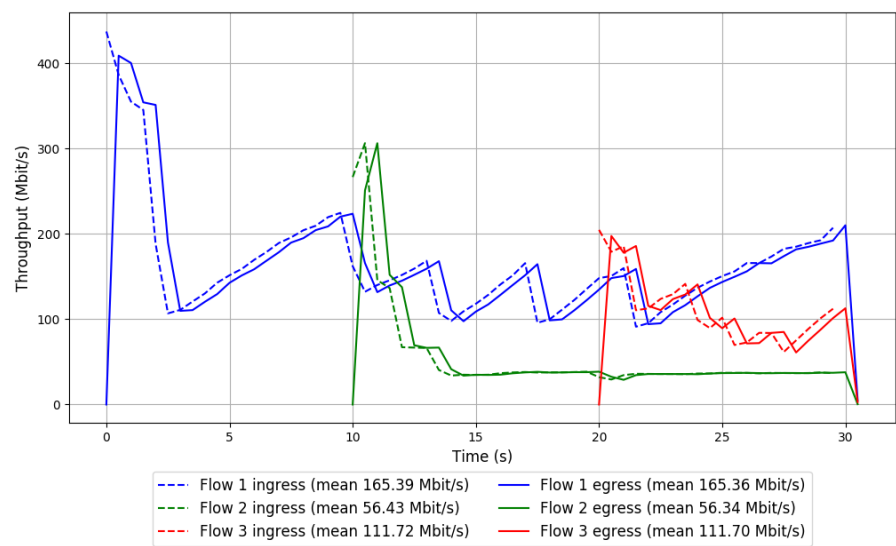
-- Flow 3:

Average throughput: 111.70 Mbit/s

95th percentile per-packet one-way delay: 23.236 ms

Loss rate: 0.02%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-03 21:00:51

End at: 2018-07-03 21:01:21

Local clock offset: -2.94 ms

Remote clock offset: 0.54 ms

Below is generated by plot.py at 2018-07-04 01:06:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.91 Mbit/s

95th percentile per-packet one-way delay: 21.117 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 54.44 Mbit/s

95th percentile per-packet one-way delay: 21.196 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 93.22 Mbit/s

95th percentile per-packet one-way delay: 20.778 ms

Loss rate: 0.05%

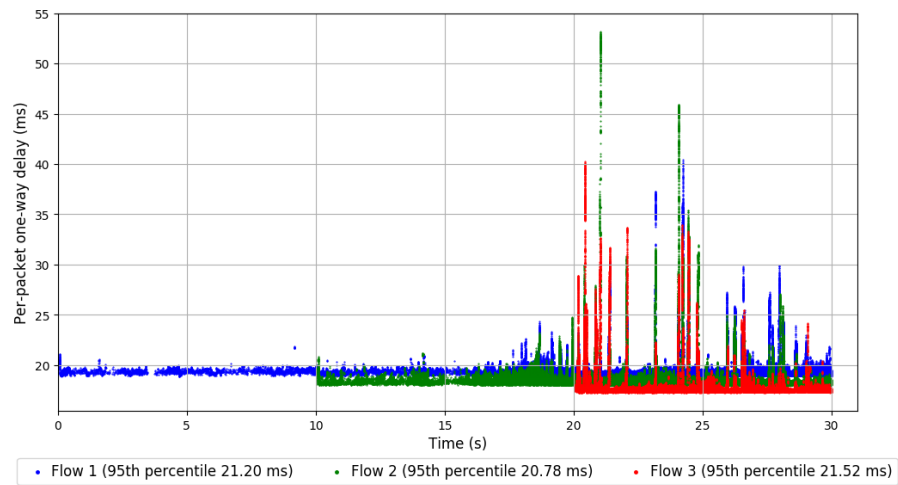
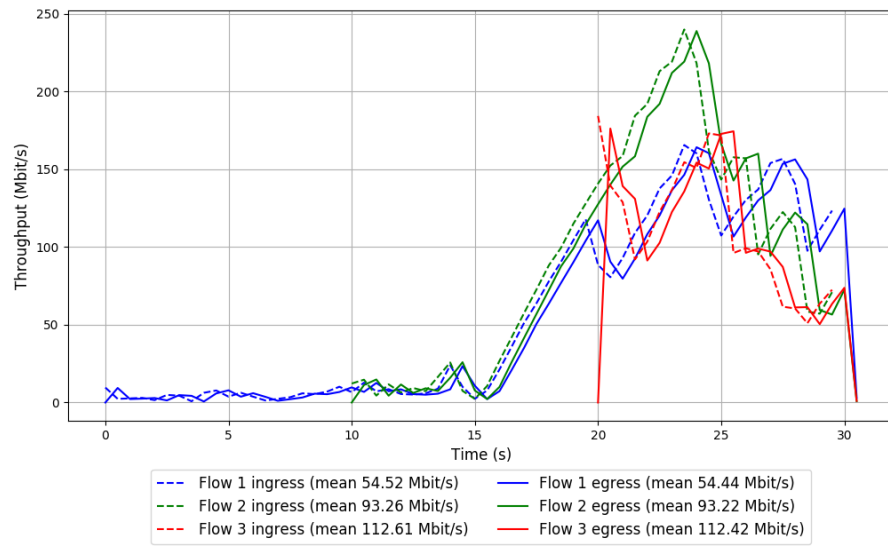
-- Flow 3:

Average throughput: 112.42 Mbit/s

95th percentile per-packet one-way delay: 21.519 ms

Loss rate: 0.16%

Run 7: Report of TCP Vegas — Data Link

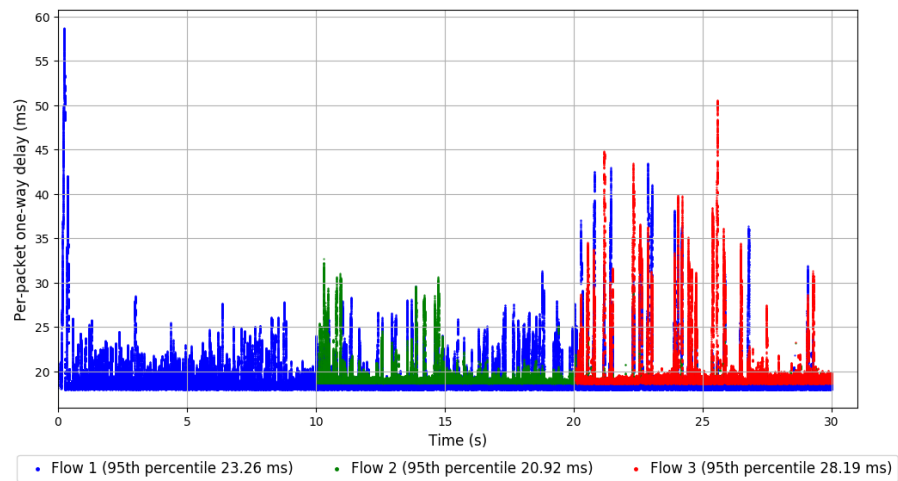
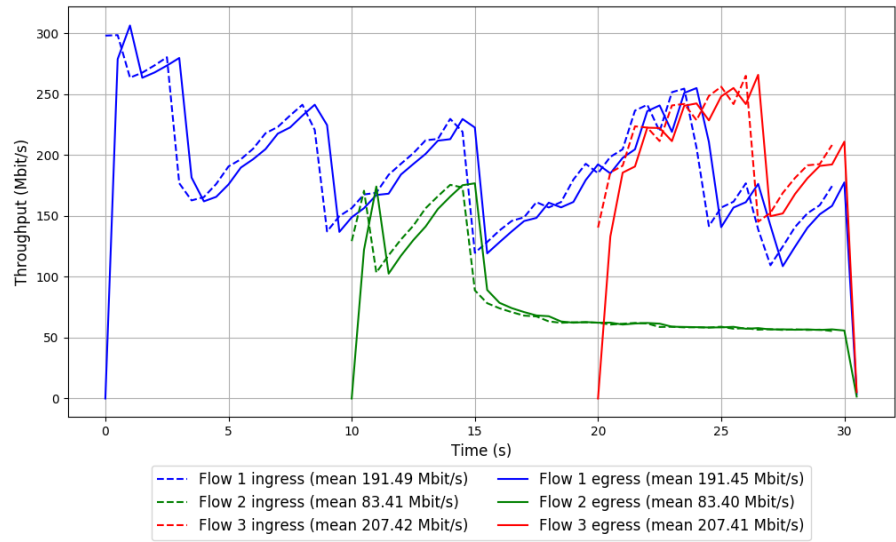


Run 8: Statistics of TCP Vegas

Start at: 2018-07-03 21:27:51
End at: 2018-07-03 21:28:21
Local clock offset: 0.582 ms
Remote clock offset: -1.202 ms

Below is generated by plot.py at 2018-07-04 01:06:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 315.95 Mbit/s
95th percentile per-packet one-way delay: 23.768 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 191.45 Mbit/s
95th percentile per-packet one-way delay: 23.262 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 83.40 Mbit/s
95th percentile per-packet one-way delay: 20.919 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 207.41 Mbit/s
95th percentile per-packet one-way delay: 28.188 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

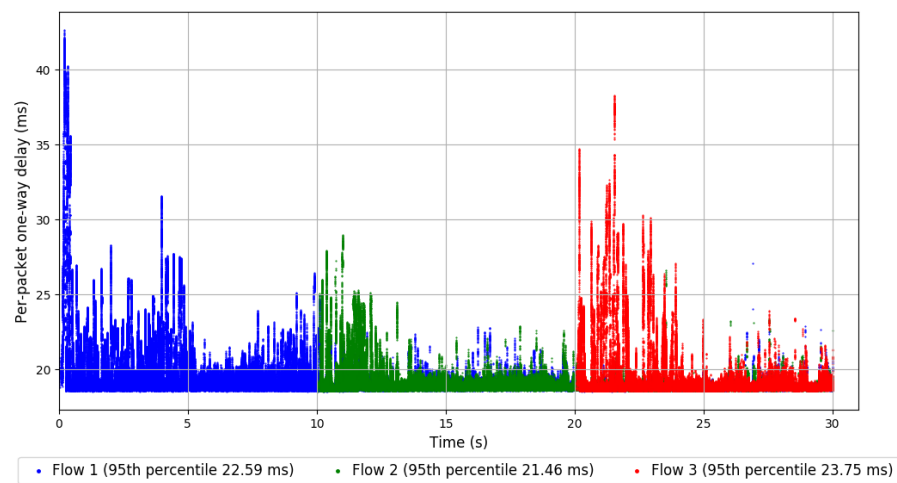
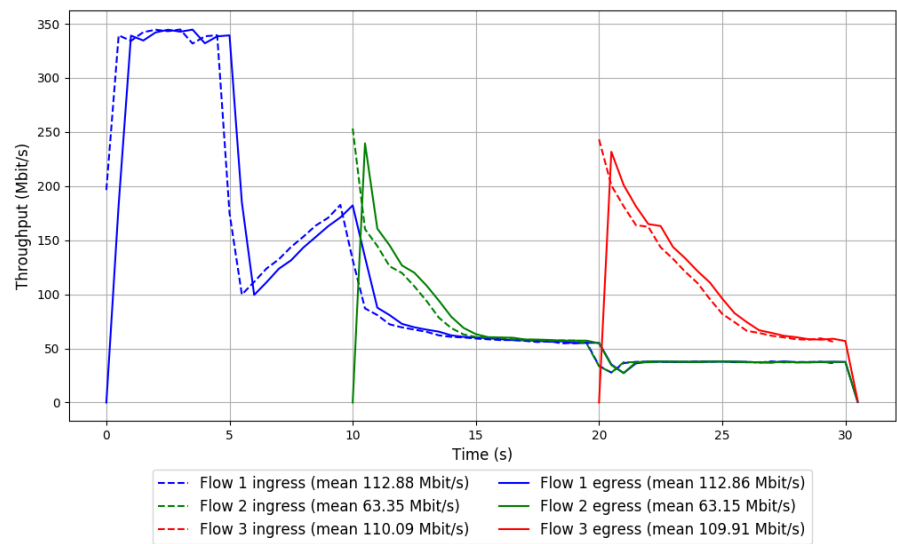


Run 9: Statistics of TCP Vegas

Start at: 2018-07-03 21:55:17
End at: 2018-07-03 21:55:47
Local clock offset: 0.071 ms
Remote clock offset: -0.792 ms

Below is generated by plot.py at 2018-07-04 01:06:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 191.45 Mbit/s
95th percentile per-packet one-way delay: 22.548 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 112.86 Mbit/s
95th percentile per-packet one-way delay: 22.586 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 63.15 Mbit/s
95th percentile per-packet one-way delay: 21.458 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 109.91 Mbit/s
95th percentile per-packet one-way delay: 23.754 ms
Loss rate: 0.16%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-03 22:22:22

End at: 2018-07-03 22:22:52

Local clock offset: 0.386 ms

Remote clock offset: 3.423 ms

Below is generated by plot.py at 2018-07-04 01:06:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.47 Mbit/s

95th percentile per-packet one-way delay: 22.085 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 56.74 Mbit/s

95th percentile per-packet one-way delay: 20.688 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 157.08 Mbit/s

95th percentile per-packet one-way delay: 22.530 ms

Loss rate: 0.04%

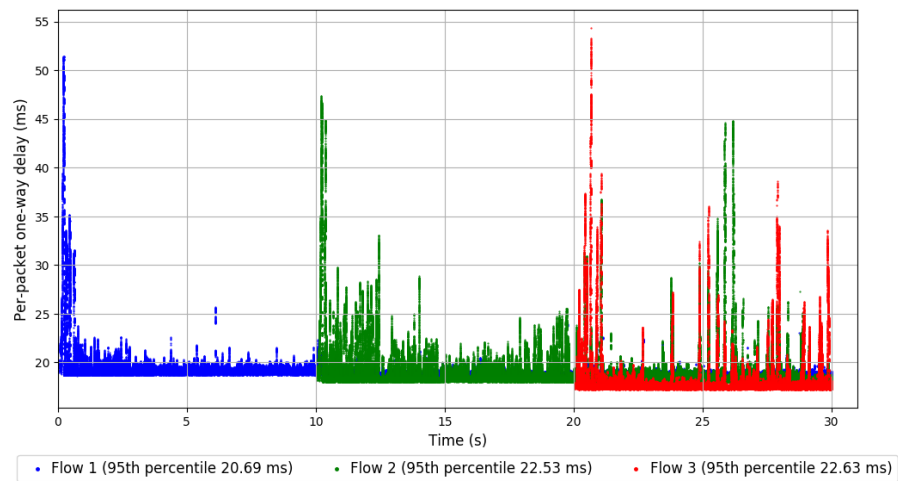
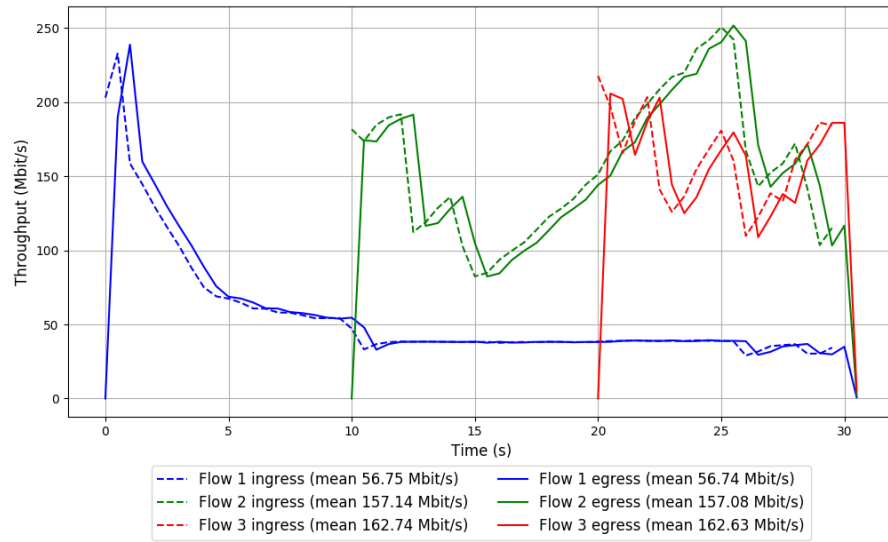
-- Flow 3:

Average throughput: 162.63 Mbit/s

95th percentile per-packet one-way delay: 22.631 ms

Loss rate: 0.06%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-03 18:26:19

End at: 2018-07-03 18:26:49

Local clock offset: 0.526 ms

Remote clock offset: 0.973 ms

Below is generated by plot.py at 2018-07-04 01:06:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 382.18 Mbit/s

95th percentile per-packet one-way delay: 39.910 ms

Loss rate: 20.95%

-- Flow 1:

Average throughput: 201.32 Mbit/s

95th percentile per-packet one-way delay: 46.733 ms

Loss rate: 19.15%

-- Flow 2:

Average throughput: 213.44 Mbit/s

95th percentile per-packet one-way delay: 34.759 ms

Loss rate: 23.36%

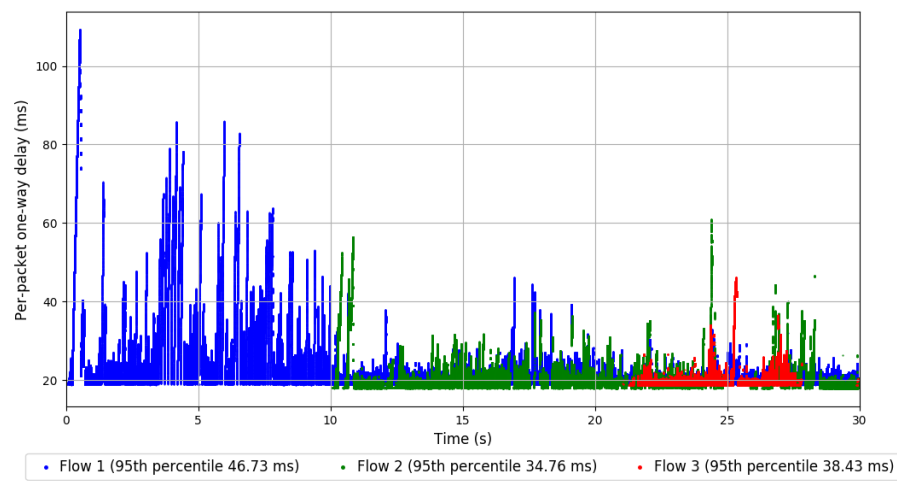
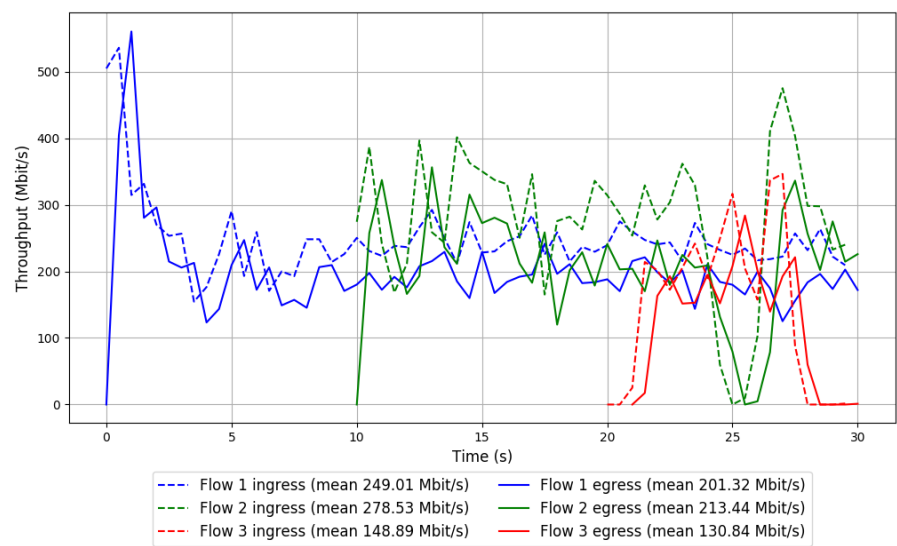
-- Flow 3:

Average throughput: 130.84 Mbit/s

95th percentile per-packet one-way delay: 38.431 ms

Loss rate: 20.98%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-03 18:52:32

End at: 2018-07-03 18:53:02

Local clock offset: -2.808 ms

Remote clock offset: 3.816 ms

Below is generated by plot.py at 2018-07-04 01:06:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 450.99 Mbit/s

95th percentile per-packet one-way delay: 28.937 ms

Loss rate: 26.42%

-- Flow 1:

Average throughput: 245.98 Mbit/s

95th percentile per-packet one-way delay: 28.421 ms

Loss rate: 19.42%

-- Flow 2:

Average throughput: 247.27 Mbit/s

95th percentile per-packet one-way delay: 29.061 ms

Loss rate: 32.78%

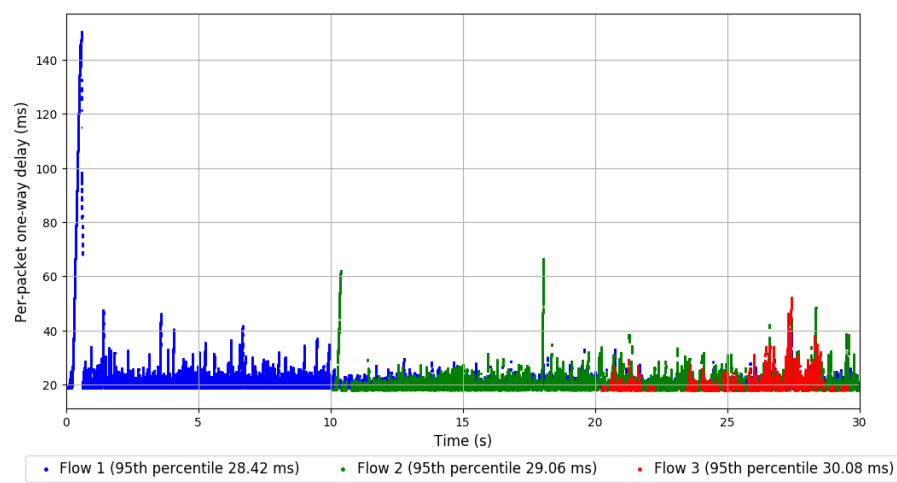
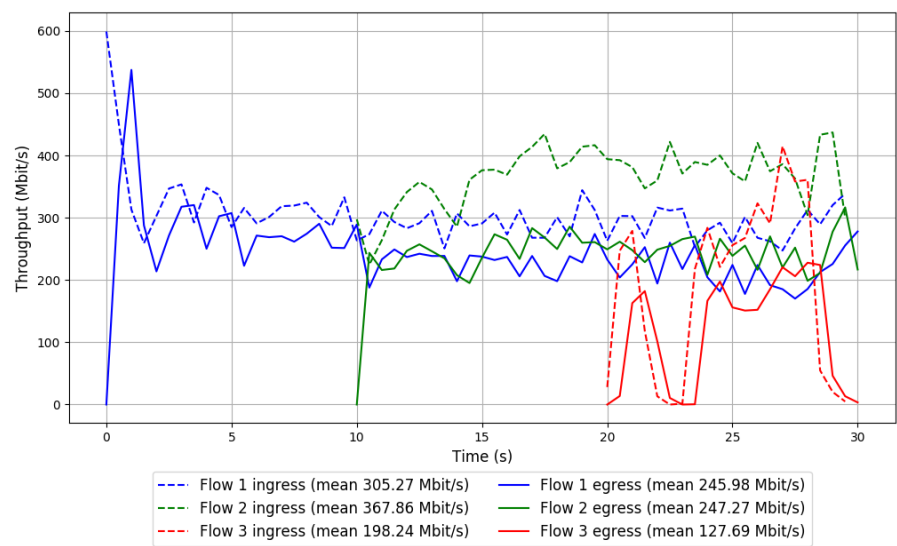
-- Flow 3:

Average throughput: 127.69 Mbit/s

95th percentile per-packet one-way delay: 30.076 ms

Loss rate: 35.62%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-03 19:20:08

End at: 2018-07-03 19:20:38

Local clock offset: -2.759 ms

Remote clock offset: 0.867 ms

Below is generated by plot.py at 2018-07-04 01:06:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.27 Mbit/s

95th percentile per-packet one-way delay: 34.883 ms

Loss rate: 19.21%

-- Flow 1:

Average throughput: 197.10 Mbit/s

95th percentile per-packet one-way delay: 34.656 ms

Loss rate: 19.21%

-- Flow 2:

Average throughput: 237.59 Mbit/s

95th percentile per-packet one-way delay: 35.829 ms

Loss rate: 18.58%

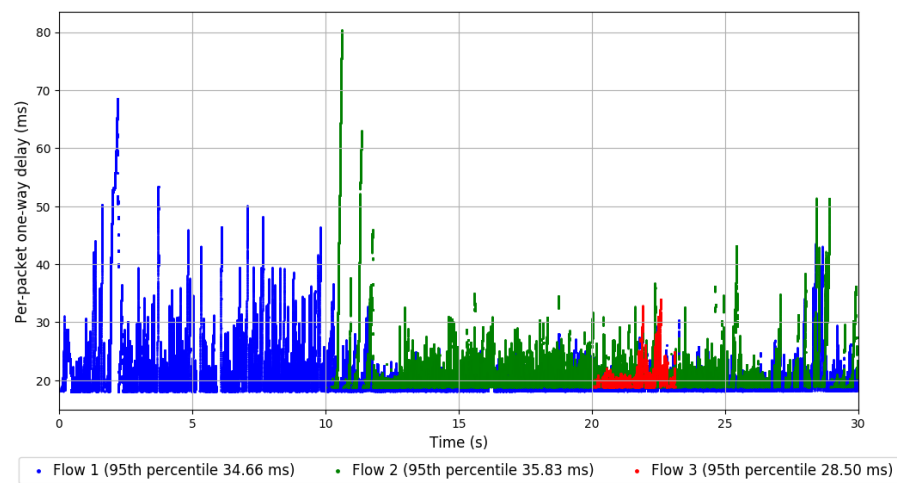
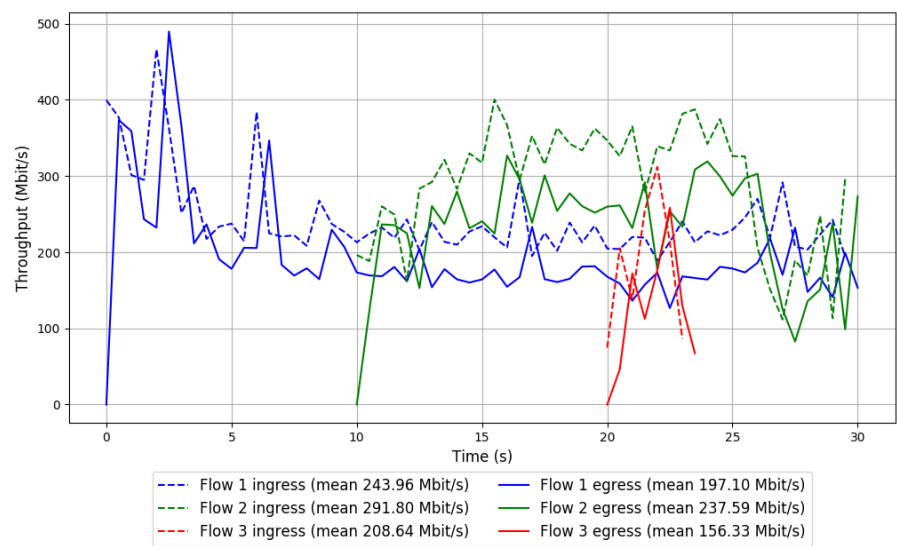
-- Flow 3:

Average throughput: 156.33 Mbit/s

95th percentile per-packet one-way delay: 28.497 ms

Loss rate: 25.07%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-03 19:47:09

End at: 2018-07-03 19:47:39

Local clock offset: -0.001 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-07-04 01:06:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 396.09 Mbit/s

95th percentile per-packet one-way delay: 70.181 ms

Loss rate: 25.07%

-- Flow 1:

Average throughput: 194.88 Mbit/s

95th percentile per-packet one-way delay: 101.146 ms

Loss rate: 25.39%

-- Flow 2:

Average throughput: 213.65 Mbit/s

95th percentile per-packet one-way delay: 47.094 ms

Loss rate: 25.35%

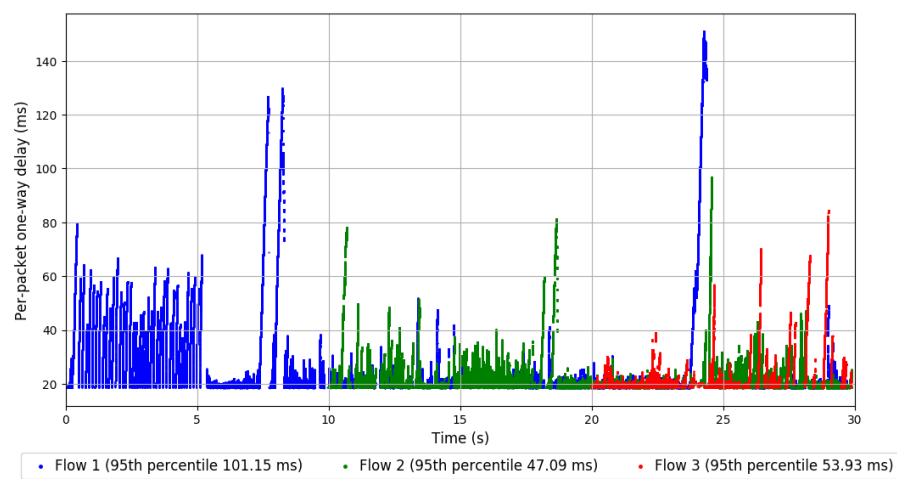
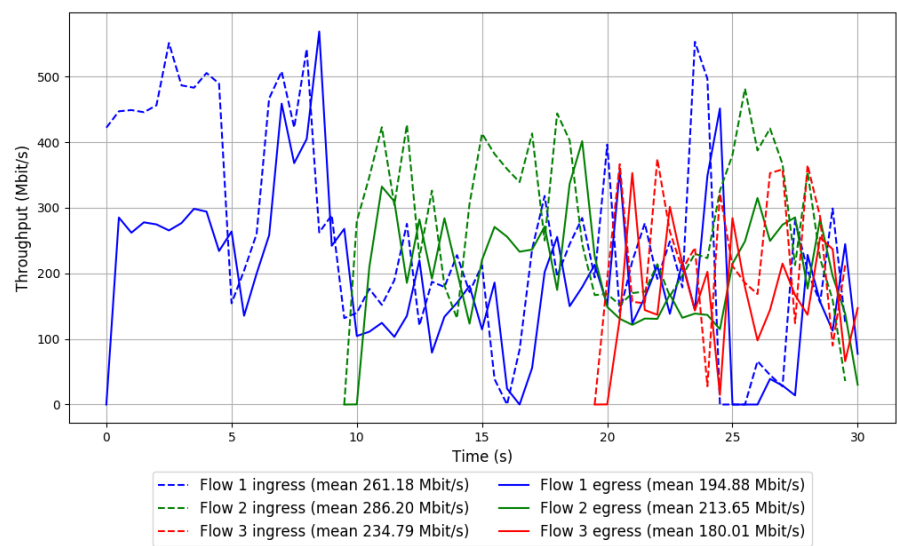
-- Flow 3:

Average throughput: 180.01 Mbit/s

95th percentile per-packet one-way delay: 53.931 ms

Loss rate: 23.33%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-03 20:14:20

End at: 2018-07-03 20:14:50

Local clock offset: 0.747 ms

Remote clock offset: 3.229 ms

Below is generated by plot.py at 2018-07-04 01:07:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 409.25 Mbit/s

95th percentile per-packet one-way delay: 35.440 ms

Loss rate: 25.56%

-- Flow 1:

Average throughput: 207.52 Mbit/s

95th percentile per-packet one-way delay: 40.201 ms

Loss rate: 25.09%

-- Flow 2:

Average throughput: 215.37 Mbit/s

95th percentile per-packet one-way delay: 29.464 ms

Loss rate: 26.45%

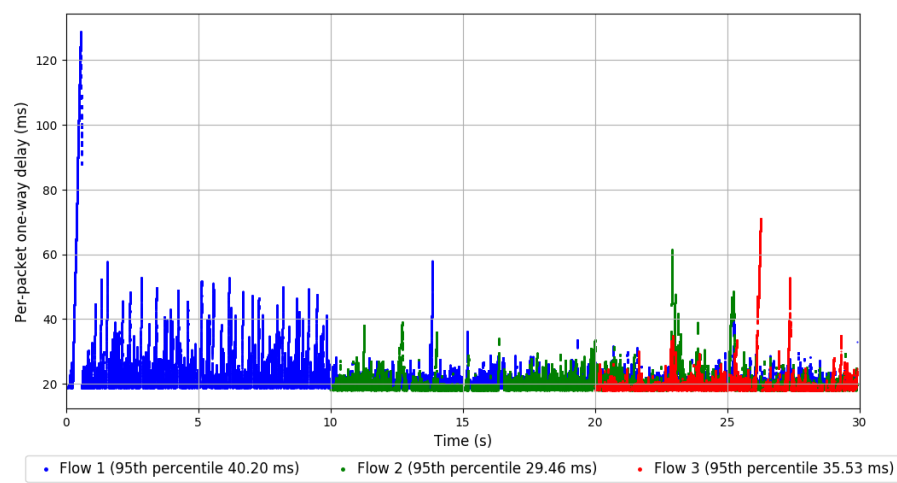
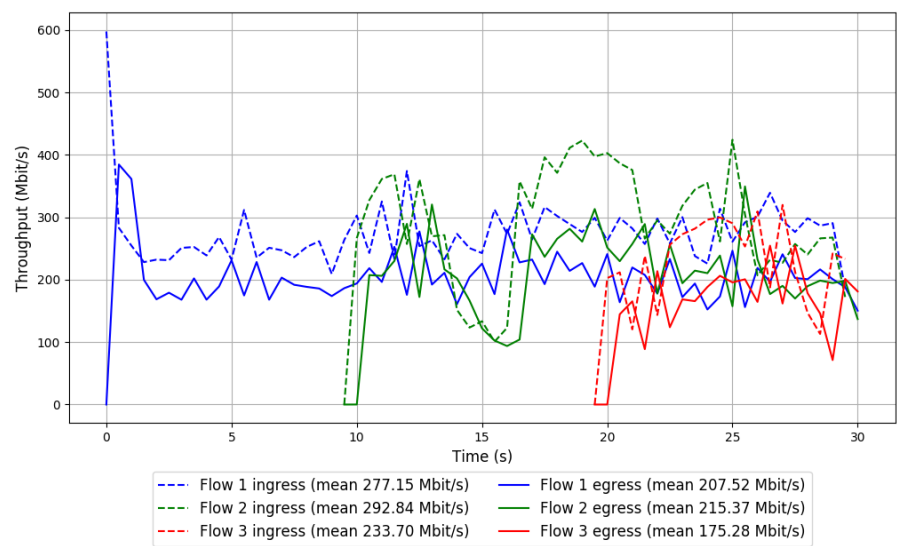
-- Flow 3:

Average throughput: 175.28 Mbit/s

95th percentile per-packet one-way delay: 35.534 ms

Loss rate: 24.98%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-03 20:41:30

End at: 2018-07-03 20:42:00

Local clock offset: -1.24 ms

Remote clock offset: 2.961 ms

Below is generated by plot.py at 2018-07-04 01:08:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 402.69 Mbit/s

95th percentile per-packet one-way delay: 49.645 ms

Loss rate: 24.15%

-- Flow 1:

Average throughput: 208.55 Mbit/s

95th percentile per-packet one-way delay: 79.031 ms

Loss rate: 23.10%

-- Flow 2:

Average throughput: 201.70 Mbit/s

95th percentile per-packet one-way delay: 27.427 ms

Loss rate: 21.92%

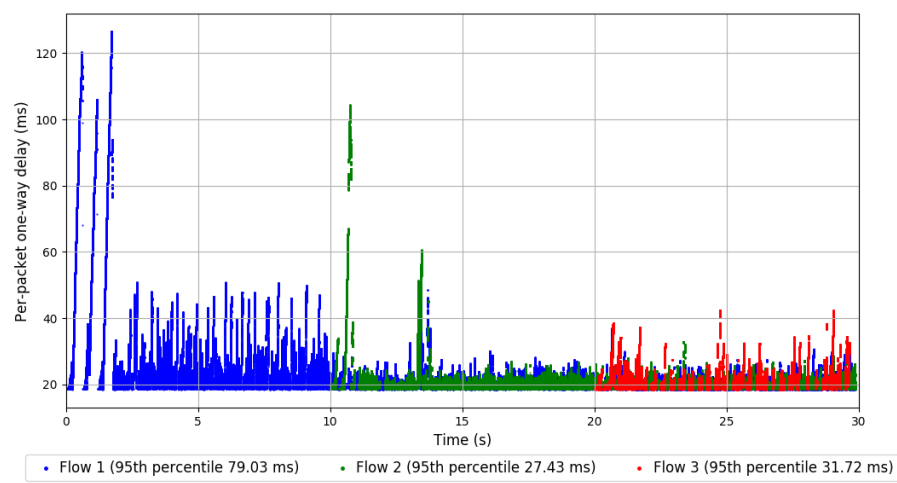
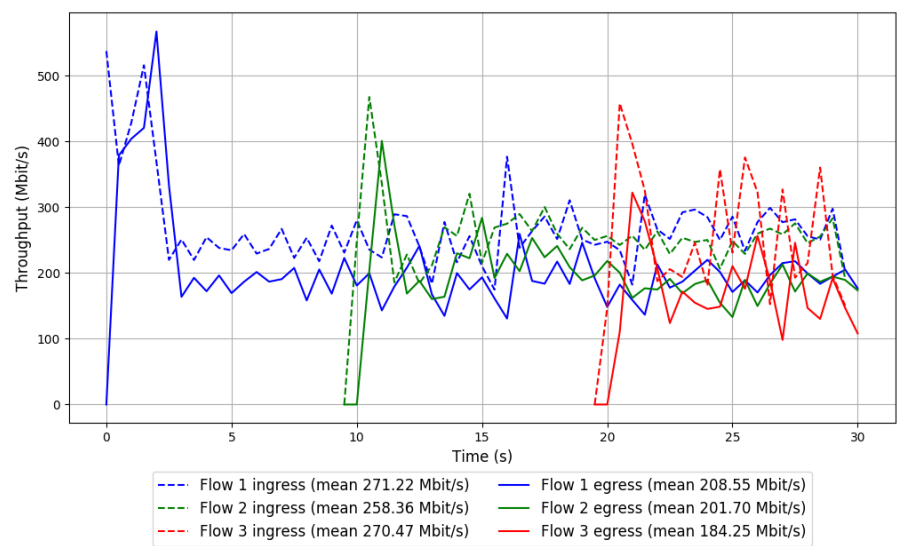
-- Flow 3:

Average throughput: 184.25 Mbit/s

95th percentile per-packet one-way delay: 31.723 ms

Loss rate: 31.78%

Run 6: Report of Verus — Data Link

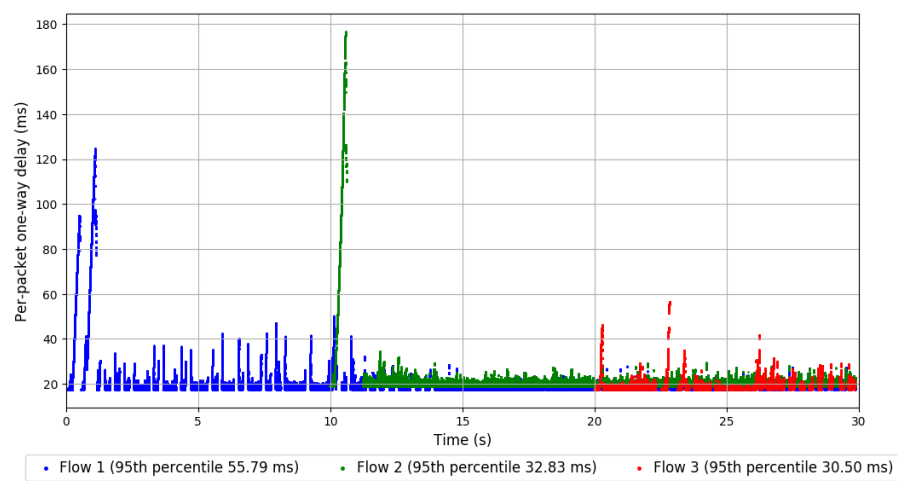
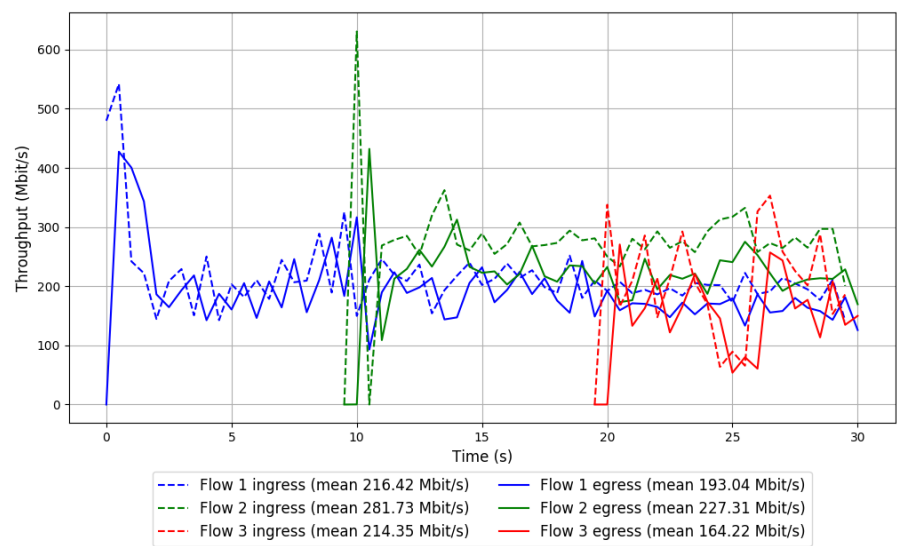


Run 7: Statistics of Verus

Start at: 2018-07-03 21:08:30
End at: 2018-07-03 21:09:00
Local clock offset: -1.454 ms
Remote clock offset: -0.398 ms

Below is generated by plot.py at 2018-07-04 01:10:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 399.07 Mbit/s
95th percentile per-packet one-way delay: 41.850 ms
Loss rate: 16.05%
-- Flow 1:
Average throughput: 193.04 Mbit/s
95th percentile per-packet one-way delay: 55.794 ms
Loss rate: 10.80%
-- Flow 2:
Average throughput: 227.31 Mbit/s
95th percentile per-packet one-way delay: 32.831 ms
Loss rate: 19.32%
-- Flow 3:
Average throughput: 164.22 Mbit/s
95th percentile per-packet one-way delay: 30.501 ms
Loss rate: 23.38%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-03 21:35:36

End at: 2018-07-03 21:36:06

Local clock offset: 0.612 ms

Remote clock offset: -0.82 ms

Below is generated by plot.py at 2018-07-04 01:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 368.37 Mbit/s

95th percentile per-packet one-way delay: 81.291 ms

Loss rate: 25.36%

-- Flow 1:

Average throughput: 202.42 Mbit/s

95th percentile per-packet one-way delay: 37.202 ms

Loss rate: 26.34%

-- Flow 2:

Average throughput: 133.86 Mbit/s

95th percentile per-packet one-way delay: 137.255 ms

Loss rate: 30.44%

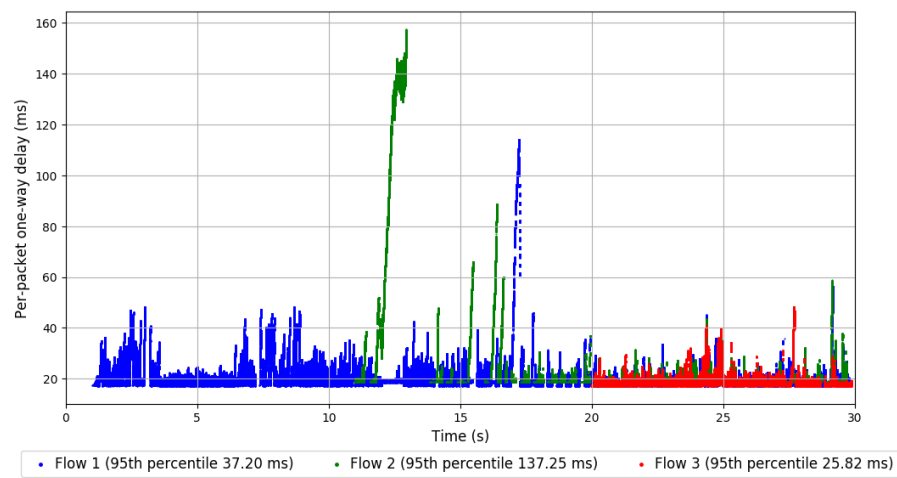
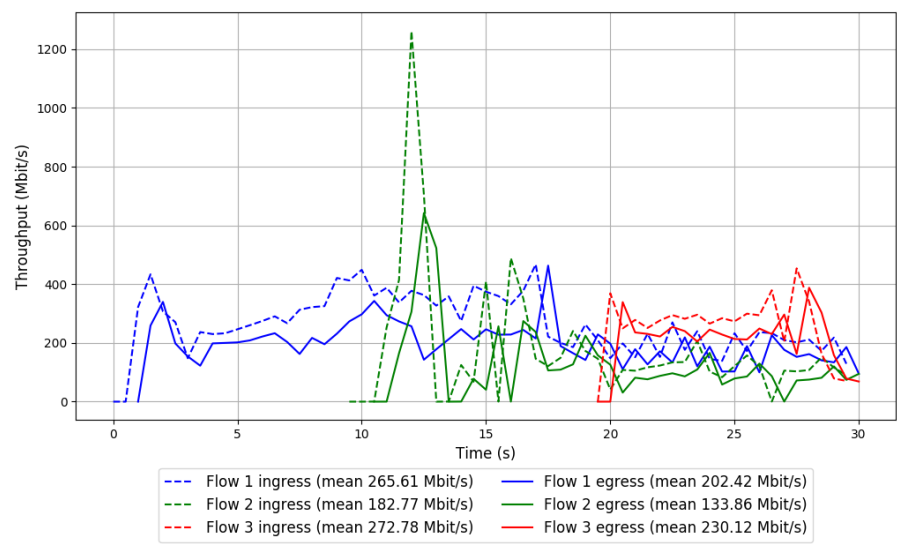
-- Flow 3:

Average throughput: 230.12 Mbit/s

95th percentile per-packet one-way delay: 25.824 ms

Loss rate: 15.64%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-03 22:02:57

End at: 2018-07-03 22:03:27

Local clock offset: -0.029 ms

Remote clock offset: 0.473 ms

Below is generated by plot.py at 2018-07-04 01:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.29 Mbit/s

95th percentile per-packet one-way delay: 39.900 ms

Loss rate: 22.35%

-- Flow 1:

Average throughput: 199.43 Mbit/s

95th percentile per-packet one-way delay: 42.175 ms

Loss rate: 22.72%

-- Flow 2:

Average throughput: 160.24 Mbit/s

95th percentile per-packet one-way delay: 38.863 ms

Loss rate: 18.49%

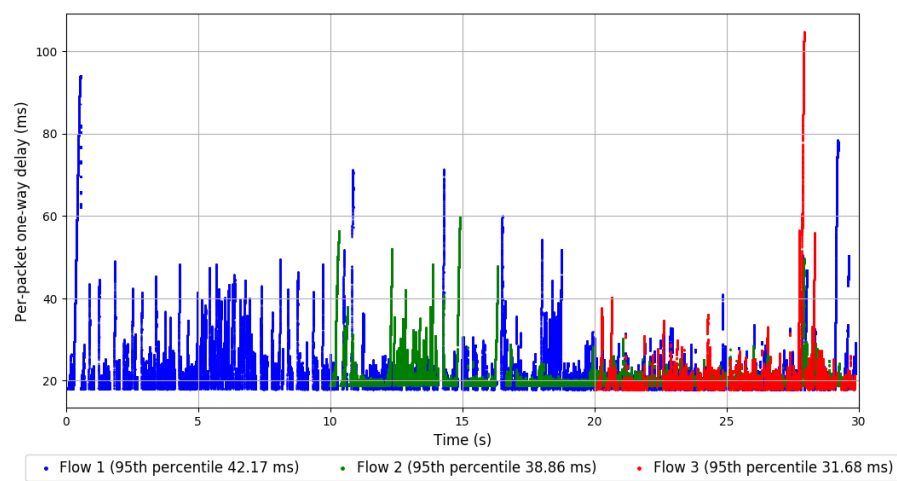
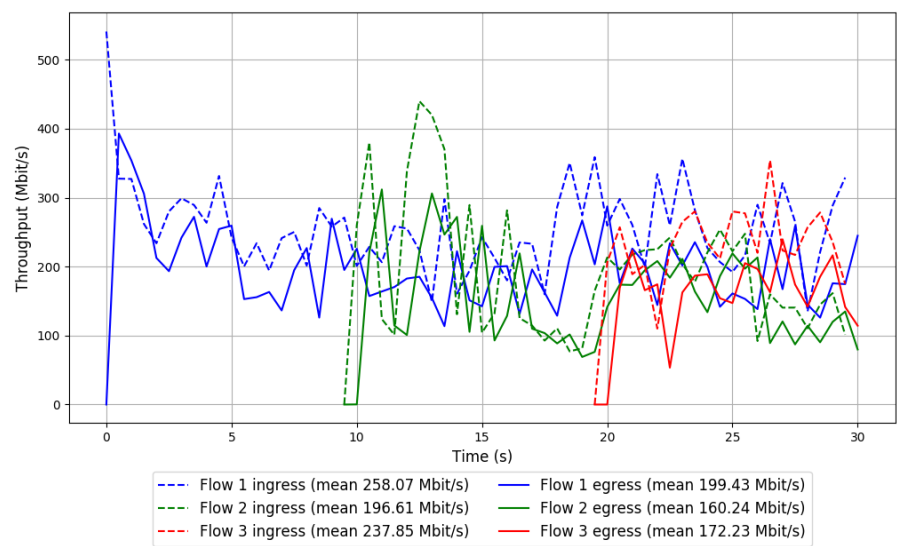
-- Flow 3:

Average throughput: 172.23 Mbit/s

95th percentile per-packet one-way delay: 31.683 ms

Loss rate: 27.58%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-03 22:30:03

End at: 2018-07-03 22:30:33

Local clock offset: 0.461 ms

Remote clock offset: 3.842 ms

Below is generated by plot.py at 2018-07-04 01:10:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.67 Mbit/s

95th percentile per-packet one-way delay: 39.778 ms

Loss rate: 24.00%

-- Flow 1:

Average throughput: 219.12 Mbit/s

95th percentile per-packet one-way delay: 38.910 ms

Loss rate: 26.27%

-- Flow 2:

Average throughput: 173.55 Mbit/s

95th percentile per-packet one-way delay: 43.000 ms

Loss rate: 21.63%

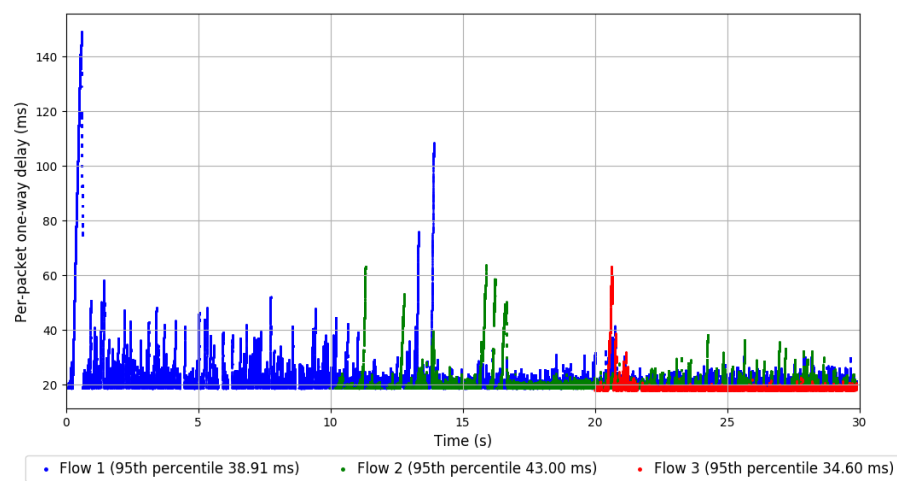
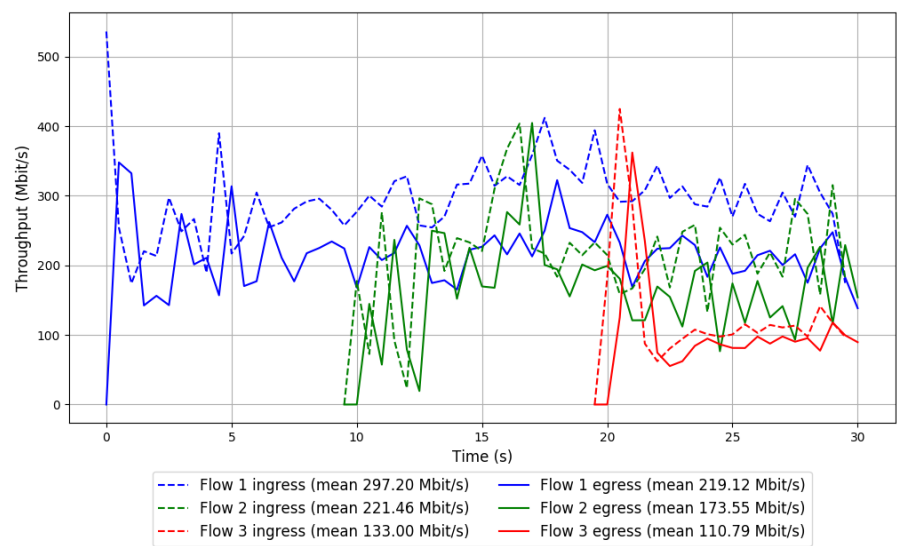
-- Flow 3:

Average throughput: 110.79 Mbit/s

95th percentile per-packet one-way delay: 34.605 ms

Loss rate: 16.68%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-03 18:38:19

End at: 2018-07-03 18:38:49

Local clock offset: -0.925 ms

Remote clock offset: 2.207 ms

Below is generated by plot.py at 2018-07-04 01:13:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 591.97 Mbit/s

95th percentile per-packet one-way delay: 19.491 ms

Loss rate: 4.17%

-- Flow 1:

Average throughput: 370.33 Mbit/s

95th percentile per-packet one-way delay: 19.074 ms

Loss rate: 2.14%

-- Flow 2:

Average throughput: 293.04 Mbit/s

95th percentile per-packet one-way delay: 19.628 ms

Loss rate: 5.84%

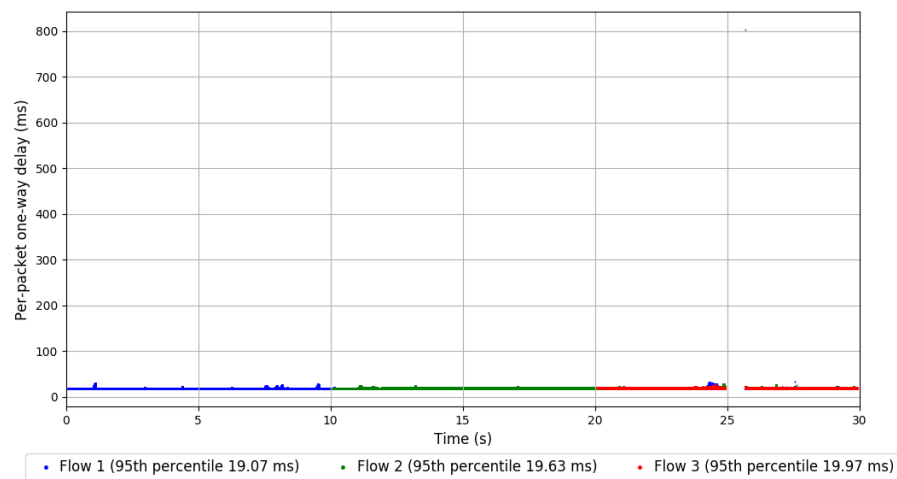
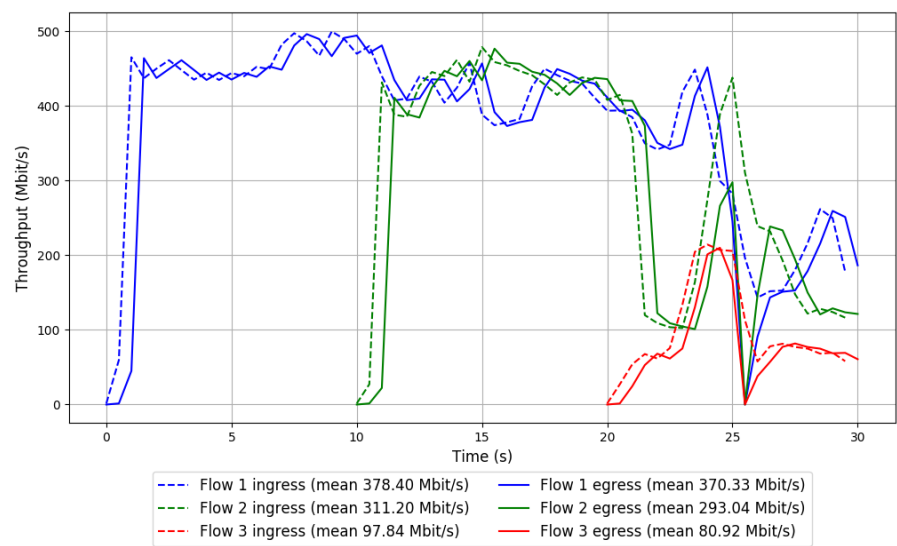
-- Flow 3:

Average throughput: 80.92 Mbit/s

95th percentile per-packet one-way delay: 19.974 ms

Loss rate: 17.30%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-03 19:05:45

End at: 2018-07-03 19:06:15

Local clock offset: -3.295 ms

Remote clock offset: 4.859 ms

Below is generated by plot.py at 2018-07-04 01:14:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 609.63 Mbit/s

95th percentile per-packet one-way delay: 19.761 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 390.50 Mbit/s

95th percentile per-packet one-way delay: 19.880 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 288.52 Mbit/s

95th percentile per-packet one-way delay: 19.687 ms

Loss rate: 0.28%

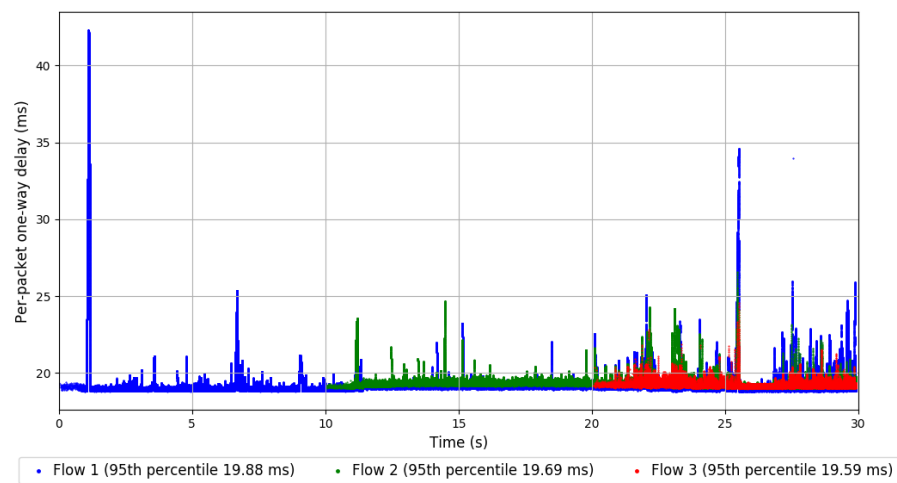
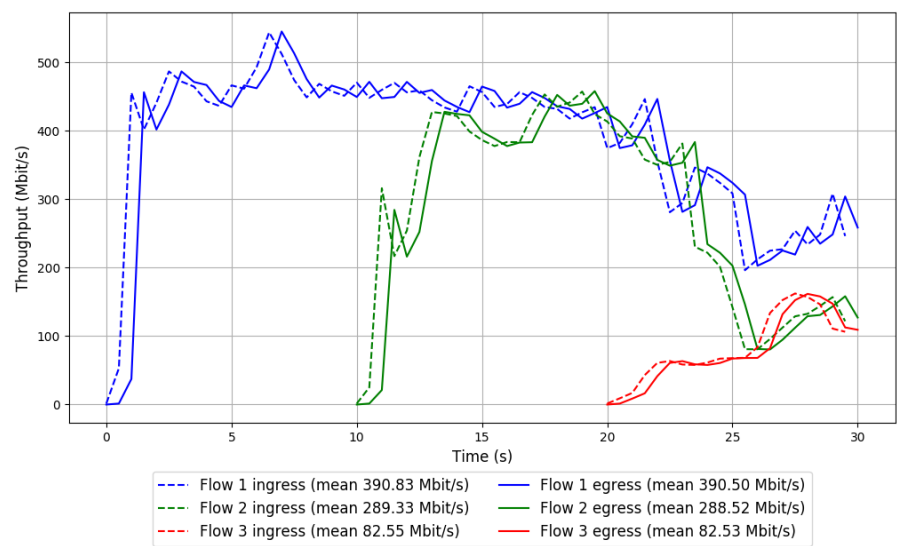
-- Flow 3:

Average throughput: 82.53 Mbit/s

95th percentile per-packet one-way delay: 19.592 ms

Loss rate: 0.03%

Run 2: Report of PCC-Vivace — Data Link

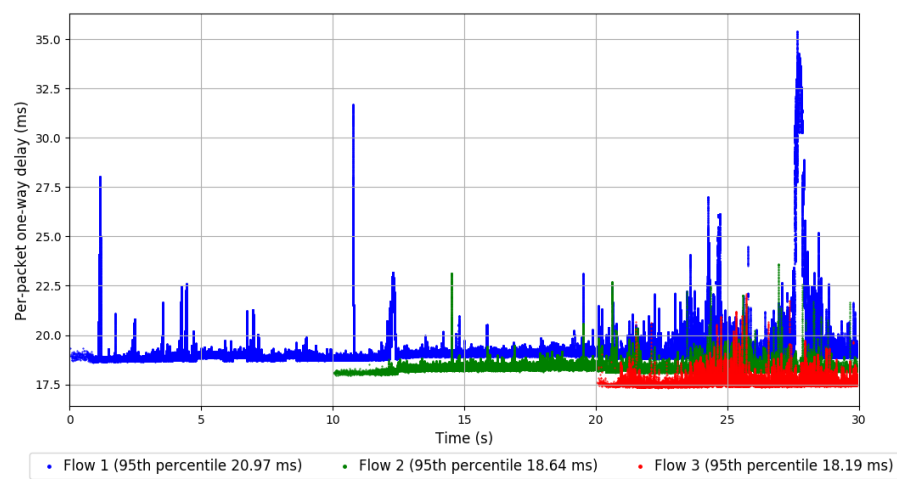
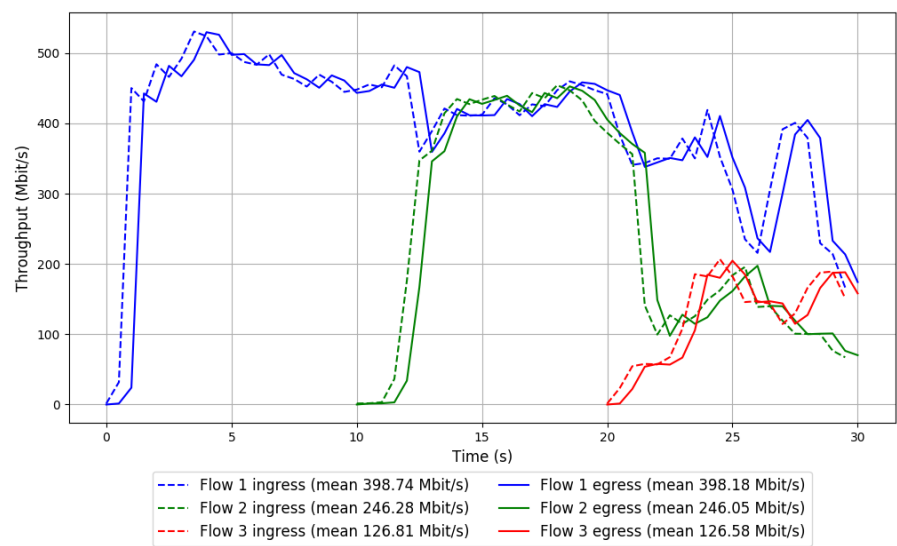


Run 3: Statistics of PCC-Vivace

Start at: 2018-07-03 19:32:55
End at: 2018-07-03 19:33:25
Local clock offset: -2.827 ms
Remote clock offset: -0.852 ms

Below is generated by plot.py at 2018-07-04 01:14:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 603.60 Mbit/s
95th percentile per-packet one-way delay: 20.099 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 398.18 Mbit/s
95th percentile per-packet one-way delay: 20.967 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 246.05 Mbit/s
95th percentile per-packet one-way delay: 18.641 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 126.58 Mbit/s
95th percentile per-packet one-way delay: 18.192 ms
Loss rate: 0.18%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-03 20:00:02

End at: 2018-07-03 20:00:32

Local clock offset: 0.803 ms

Remote clock offset: 2.524 ms

Below is generated by plot.py at 2018-07-04 01:16:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 638.72 Mbit/s

95th percentile per-packet one-way delay: 19.215 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 330.15 Mbit/s

95th percentile per-packet one-way delay: 19.106 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 405.67 Mbit/s

95th percentile per-packet one-way delay: 20.428 ms

Loss rate: 0.15%

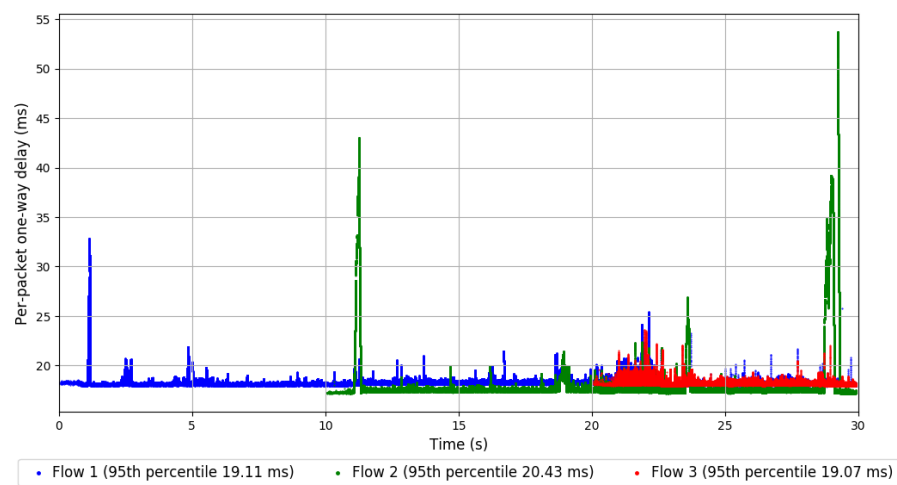
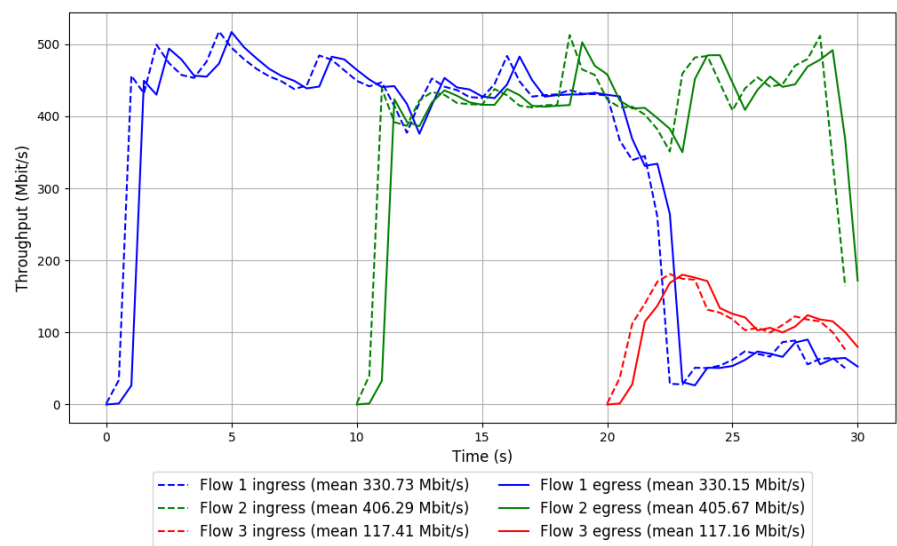
-- Flow 3:

Average throughput: 117.16 Mbit/s

95th percentile per-packet one-way delay: 19.068 ms

Loss rate: 0.23%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-03 20:27:16

End at: 2018-07-03 20:27:46

Local clock offset: 1.038 ms

Remote clock offset: 3.085 ms

Below is generated by plot.py at 2018-07-04 01:17:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 640.57 Mbit/s

95th percentile per-packet one-way delay: 24.086 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 375.79 Mbit/s

95th percentile per-packet one-way delay: 19.853 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 324.44 Mbit/s

95th percentile per-packet one-way delay: 45.146 ms

Loss rate: 1.22%

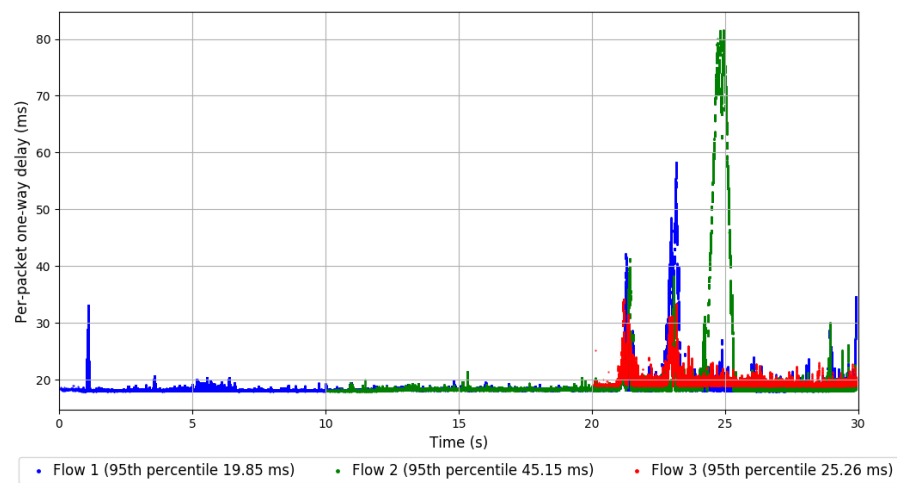
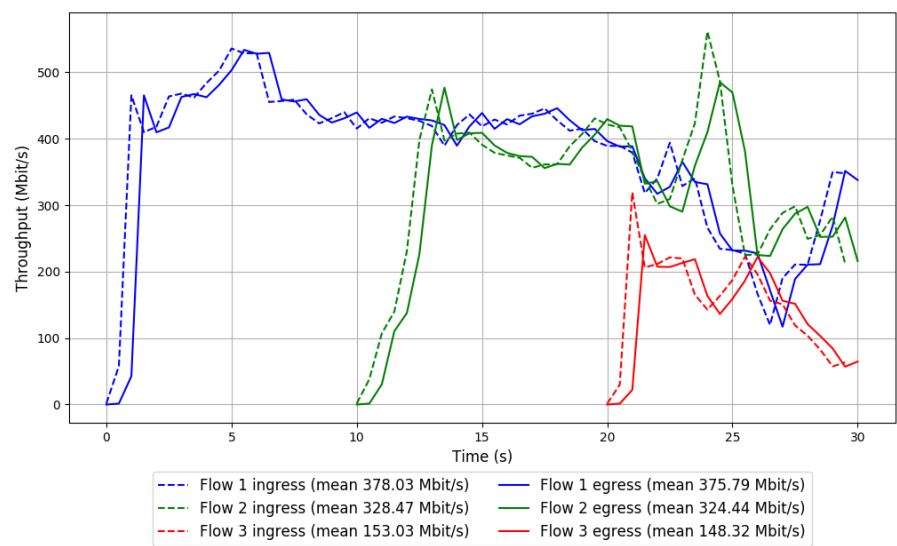
-- Flow 3:

Average throughput: 148.32 Mbit/s

95th percentile per-packet one-way delay: 25.264 ms

Loss rate: 3.07%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-03 20:54:10

End at: 2018-07-03 20:54:40

Local clock offset: -2.694 ms

Remote clock offset: 2.05 ms

Below is generated by plot.py at 2018-07-04 01:18:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 649.62 Mbit/s

95th percentile per-packet one-way delay: 60.351 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 404.78 Mbit/s

95th percentile per-packet one-way delay: 92.490 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 337.37 Mbit/s

95th percentile per-packet one-way delay: 22.756 ms

Loss rate: 1.03%

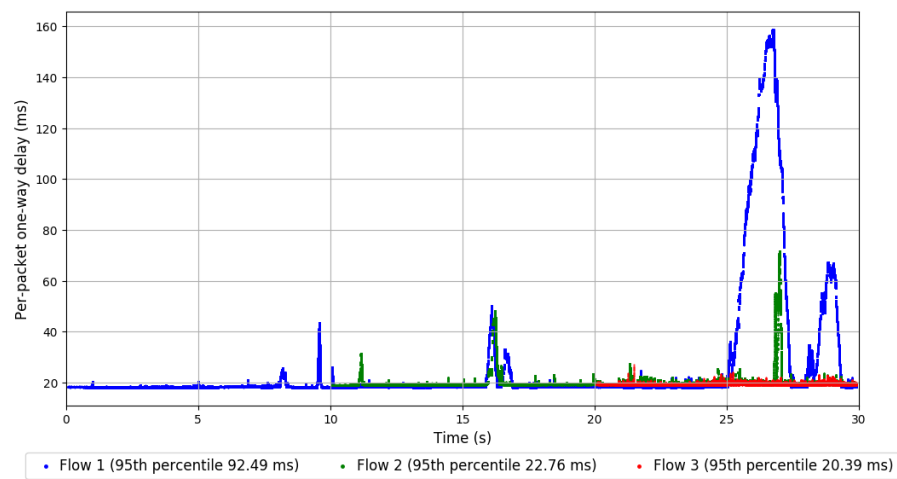
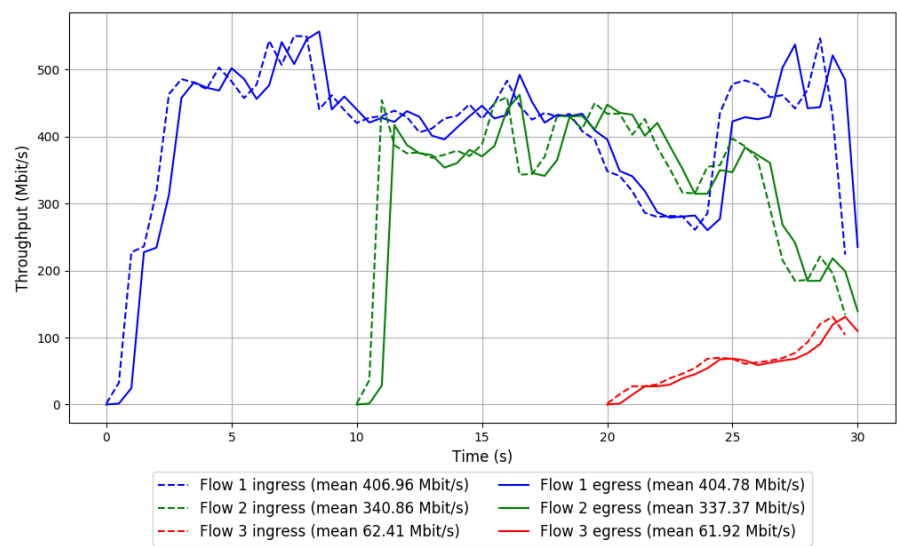
-- Flow 3:

Average throughput: 61.92 Mbit/s

95th percentile per-packet one-way delay: 20.390 ms

Loss rate: 0.77%

Run 6: Report of PCC-Vivace — Data Link

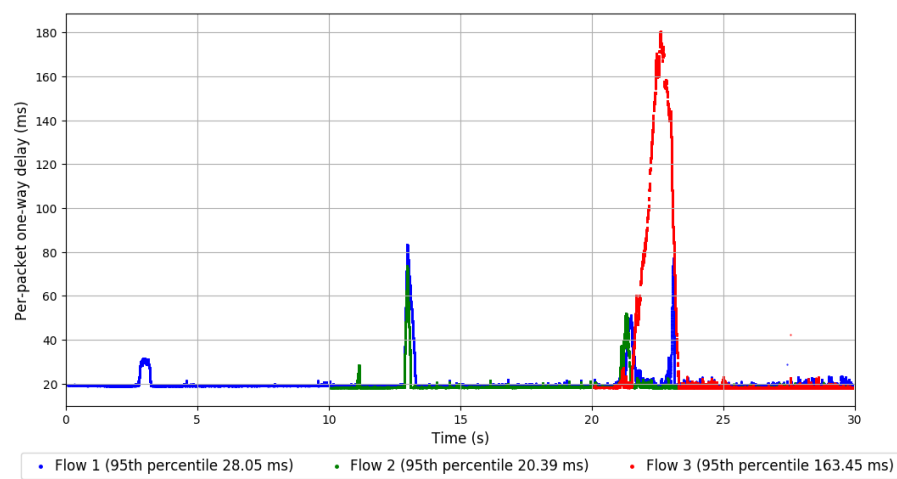
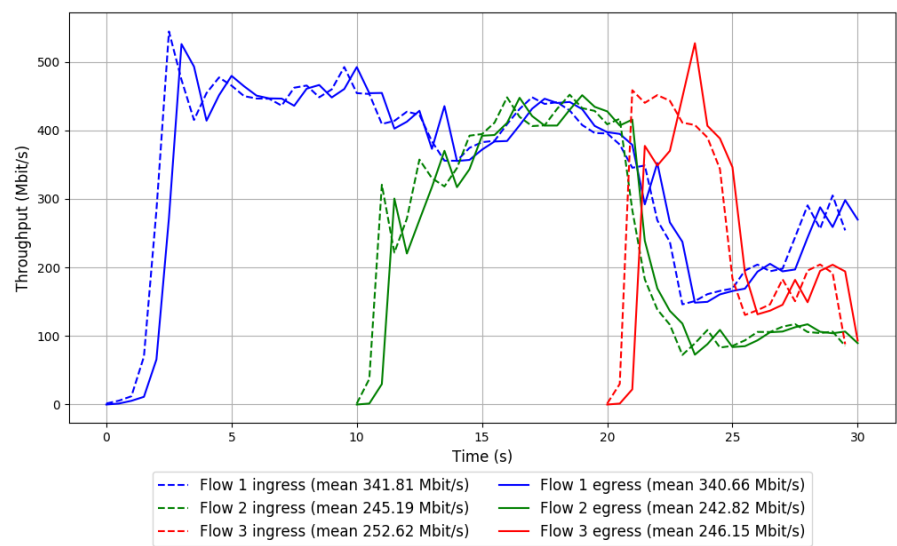


Run 7: Statistics of PCC-Vivace

Start at: 2018-07-03 21:21:26
End at: 2018-07-03 21:21:56
Local clock offset: 0.248 ms
Remote clock offset: -1.249 ms

Below is generated by plot.py at 2018-07-04 01:18:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 583.45 Mbit/s
95th percentile per-packet one-way delay: 47.874 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 340.66 Mbit/s
95th percentile per-packet one-way delay: 28.053 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 242.82 Mbit/s
95th percentile per-packet one-way delay: 20.394 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 246.15 Mbit/s
95th percentile per-packet one-way delay: 163.449 ms
Loss rate: 2.56%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-03 21:48:39

End at: 2018-07-03 21:49:09

Local clock offset: 0.171 ms

Remote clock offset: -0.72 ms

Below is generated by plot.py at 2018-07-04 01:18:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 633.23 Mbit/s

95th percentile per-packet one-way delay: 39.190 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 374.44 Mbit/s

95th percentile per-packet one-way delay: 53.879 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 336.61 Mbit/s

95th percentile per-packet one-way delay: 20.066 ms

Loss rate: 0.33%

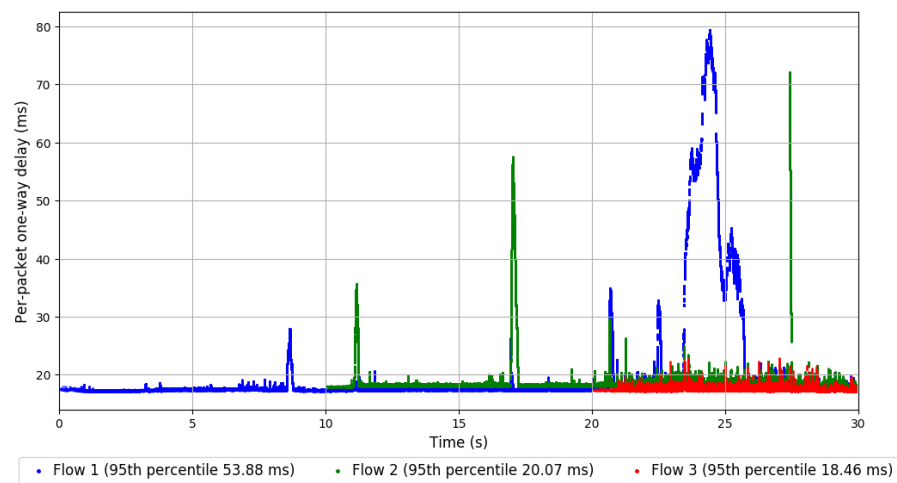
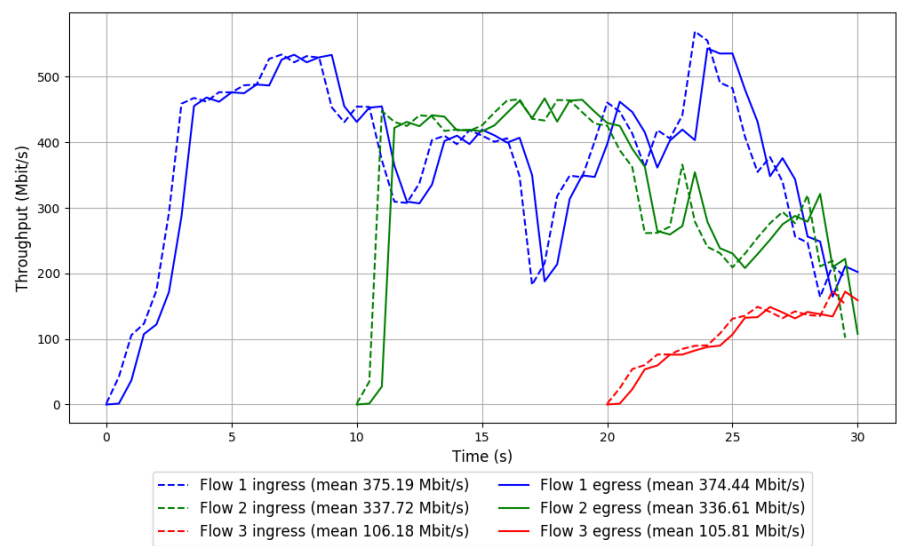
-- Flow 3:

Average throughput: 105.81 Mbit/s

95th percentile per-packet one-way delay: 18.458 ms

Loss rate: 0.34%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-03 22:15:50

End at: 2018-07-03 22:16:20

Local clock offset: 0.321 ms

Remote clock offset: 2.86 ms

Below is generated by plot.py at 2018-07-04 01:19:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 652.44 Mbit/s

95th percentile per-packet one-way delay: 24.882 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 415.78 Mbit/s

95th percentile per-packet one-way delay: 26.871 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 312.01 Mbit/s

95th percentile per-packet one-way delay: 20.873 ms

Loss rate: 0.49%

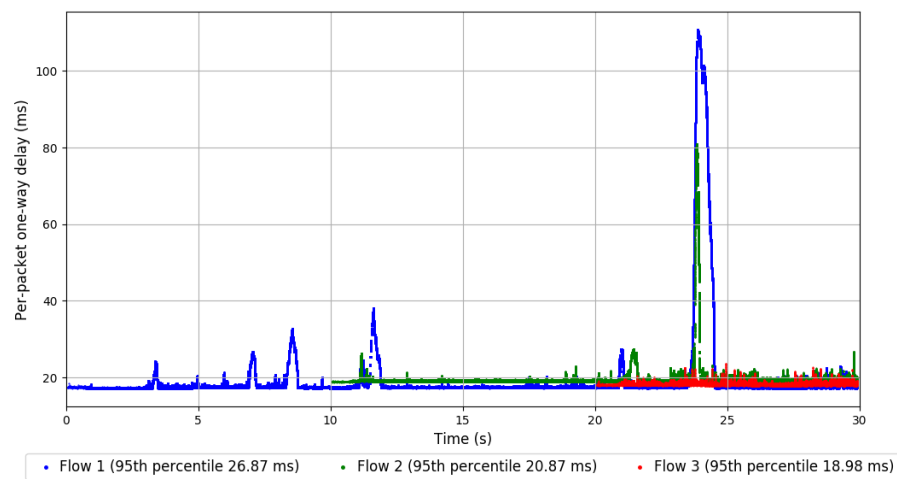
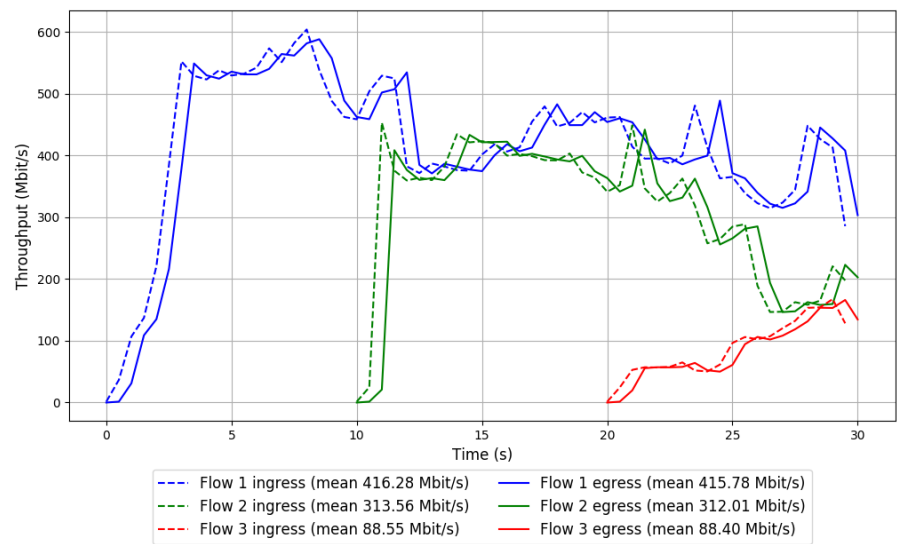
-- Flow 3:

Average throughput: 88.40 Mbit/s

95th percentile per-packet one-way delay: 18.985 ms

Loss rate: 0.17%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-03 22:42:58

End at: 2018-07-03 22:43:28

Local clock offset: 0.291 ms

Remote clock offset: 0.269 ms

Below is generated by plot.py at 2018-07-04 01:19:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 636.08 Mbit/s

95th percentile per-packet one-way delay: 33.939 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 398.53 Mbit/s

95th percentile per-packet one-way delay: 40.593 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 312.09 Mbit/s

95th percentile per-packet one-way delay: 19.390 ms

Loss rate: 0.28%

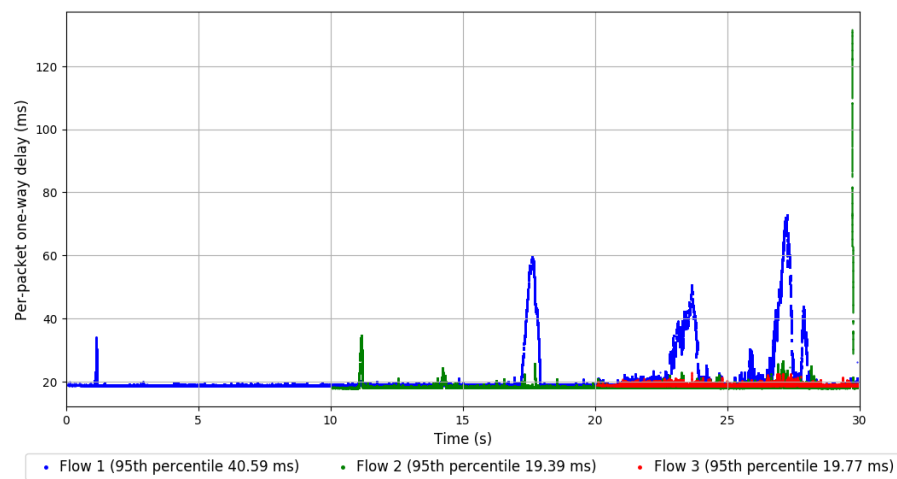
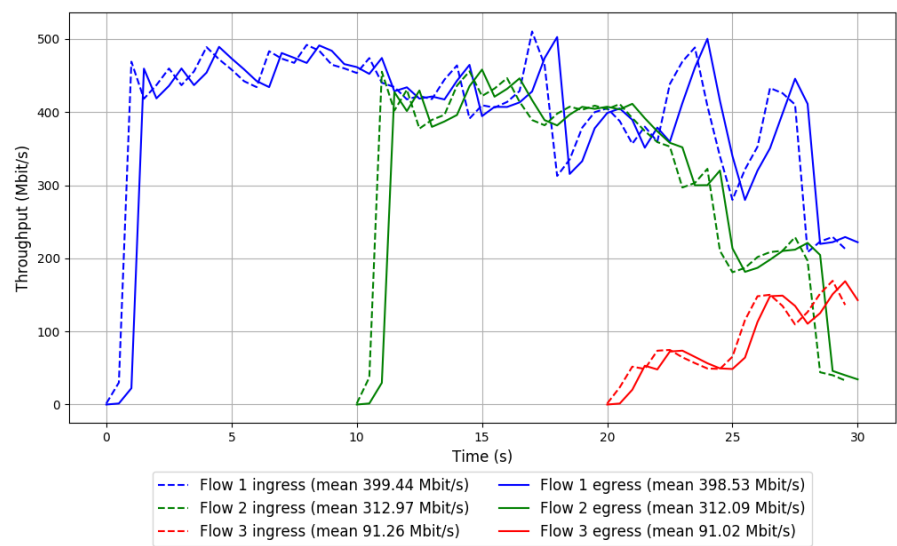
-- Flow 3:

Average throughput: 91.02 Mbit/s

95th percentile per-packet one-way delay: 19.773 ms

Loss rate: 0.26%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-03 18:31:25

End at: 2018-07-03 18:31:55

Local clock offset: 0.468 ms

Remote clock offset: 1.287 ms

Below is generated by plot.py at 2018-07-04 01:19:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 20.712 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 20.117 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 20.999 ms

Loss rate: 0.00%

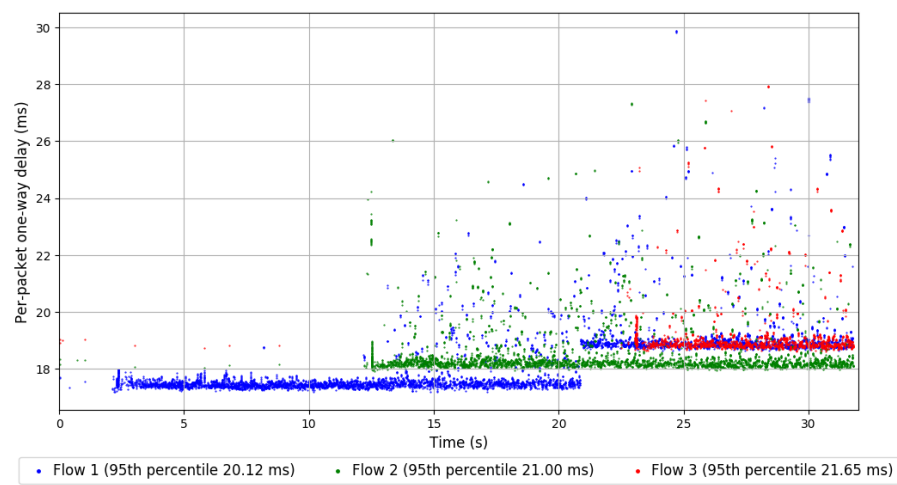
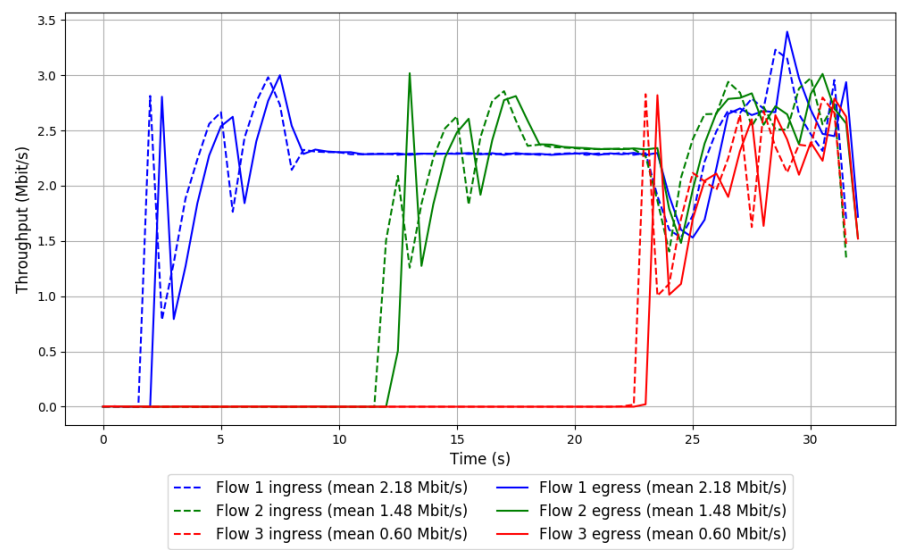
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 21.647 ms

Loss rate: 0.33%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-03 18:57:44

End at: 2018-07-03 18:58:14

Local clock offset: -3.204 ms

Remote clock offset: 4.222 ms

Below is generated by plot.py at 2018-07-04 01:19:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 19.818 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 19.705 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 19.539 ms

Loss rate: 0.00%

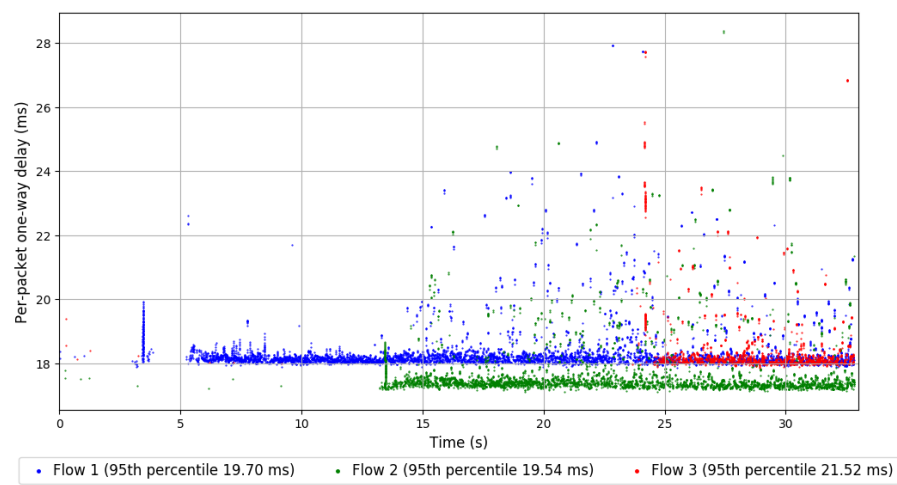
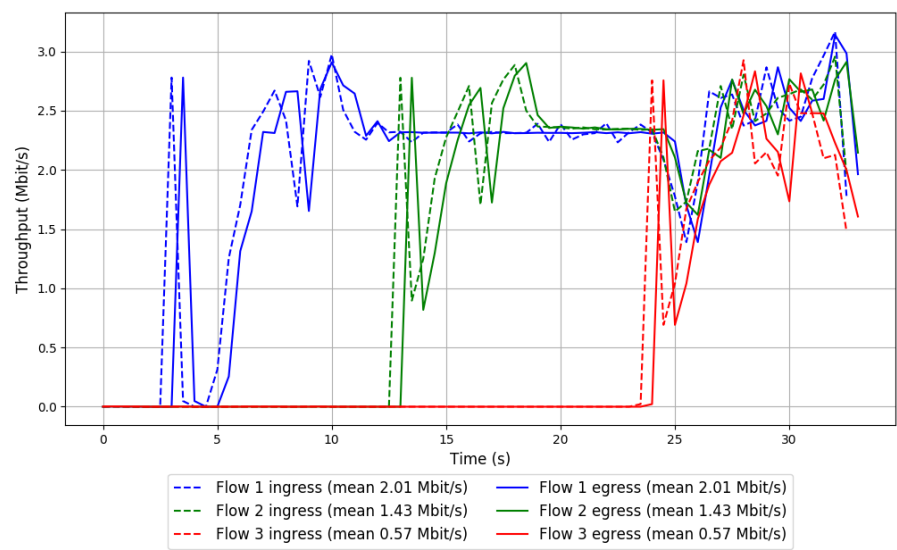
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 21.520 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

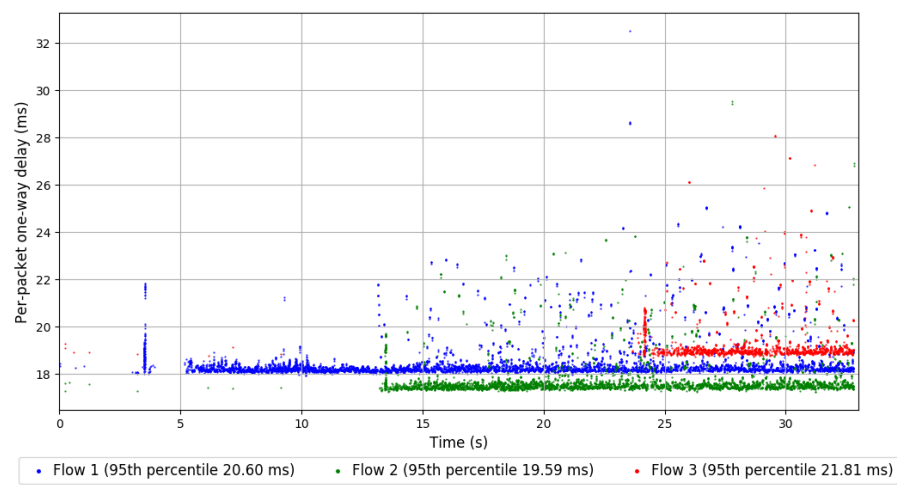
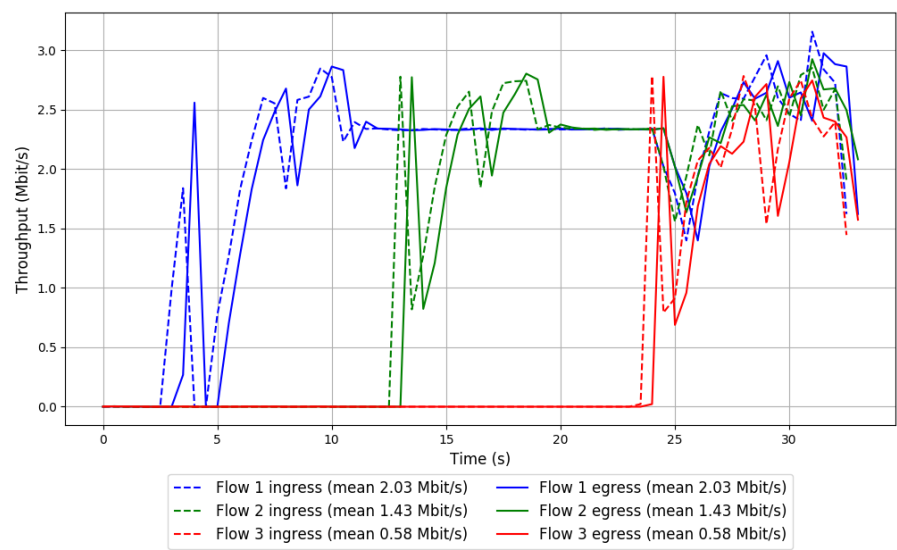


Run 3: Statistics of WebRTC media

Start at: 2018-07-03 19:25:12
End at: 2018-07-03 19:25:42
Local clock offset: -2.766 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-07-04 01:19:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 20.576 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 20.596 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 19.586 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 21.812 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-03 19:52:17

End at: 2018-07-03 19:52:47

Local clock offset: 0.329 ms

Remote clock offset: 1.394 ms

Below is generated by plot.py at 2018-07-04 01:19:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 20.473 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 20.704 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 20.181 ms

Loss rate: 0.32%

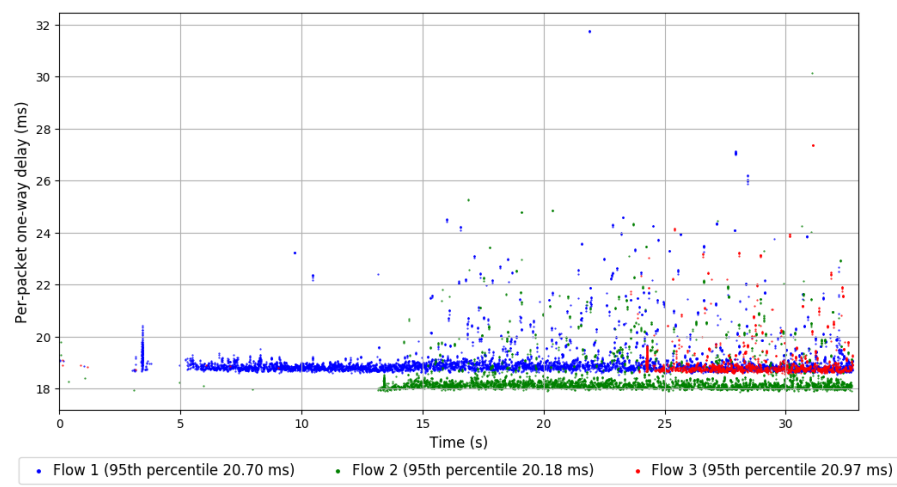
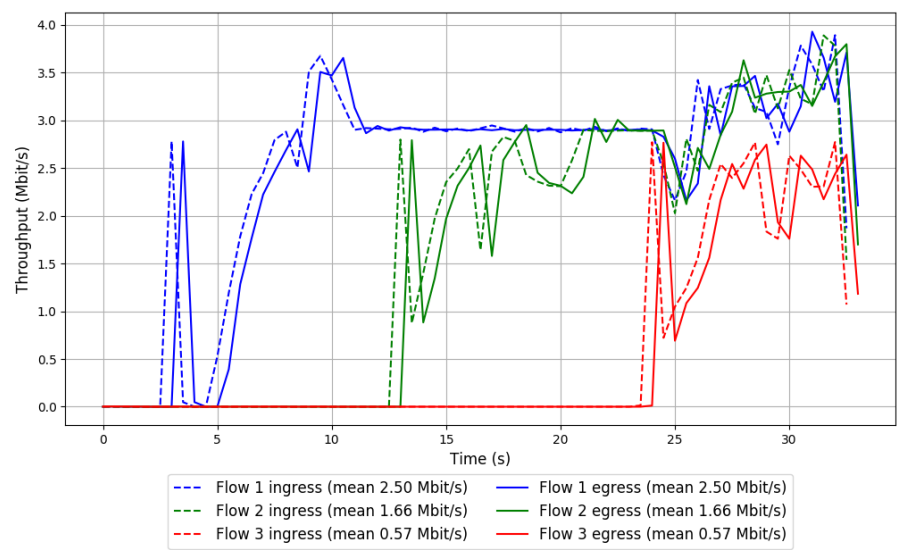
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 20.970 ms

Loss rate: 0.05%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-03 20:19:27

End at: 2018-07-03 20:19:57

Local clock offset: 0.896 ms

Remote clock offset: 3.215 ms

Below is generated by plot.py at 2018-07-04 01:19:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 20.687 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 19.857 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 20.673 ms

Loss rate: 0.00%

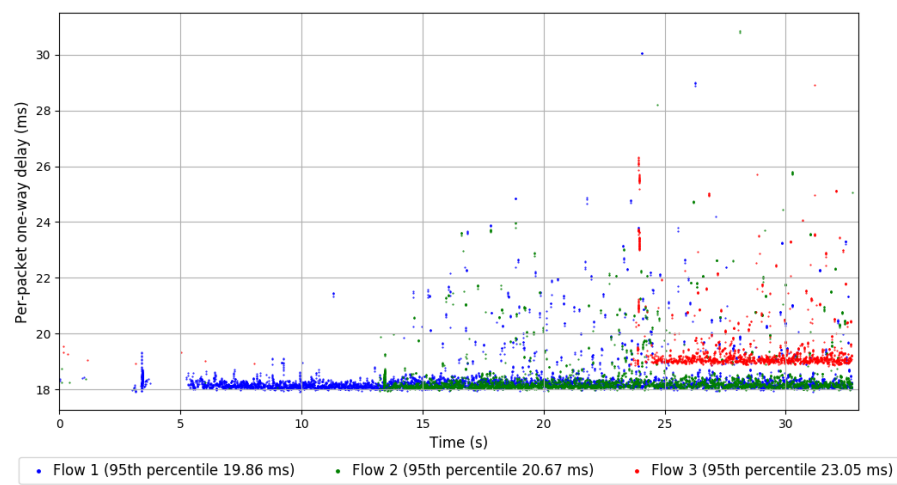
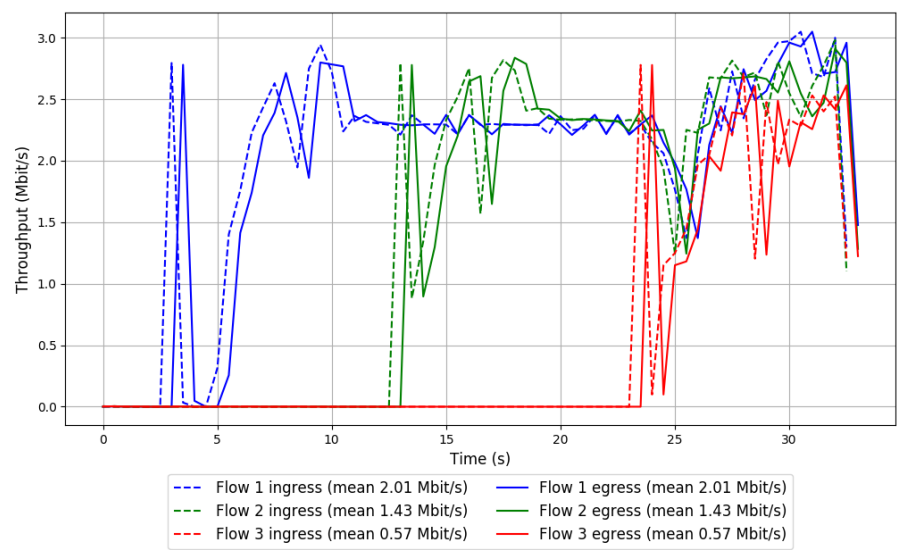
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 23.049 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-03 20:46:36

End at: 2018-07-03 20:47:06

Local clock offset: -1.967 ms

Remote clock offset: 3.037 ms

Below is generated by plot.py at 2018-07-04 01:19:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 20.592 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 20.809 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 20.170 ms

Loss rate: 0.00%

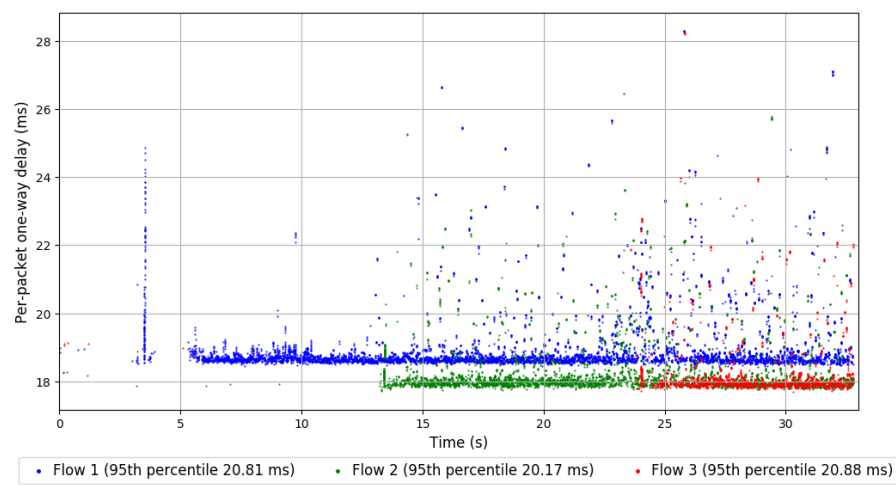
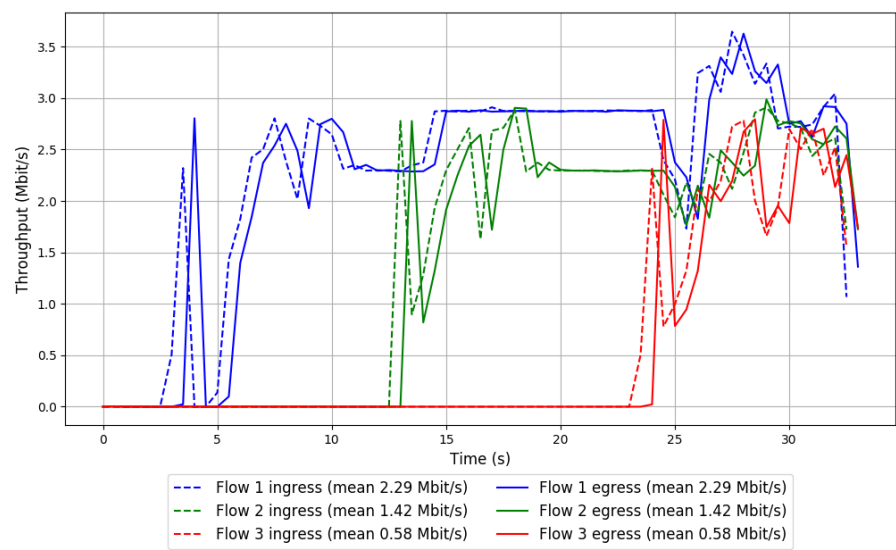
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 20.883 ms

Loss rate: 0.01%

Run 6: Report of WebRTC media — Data Link

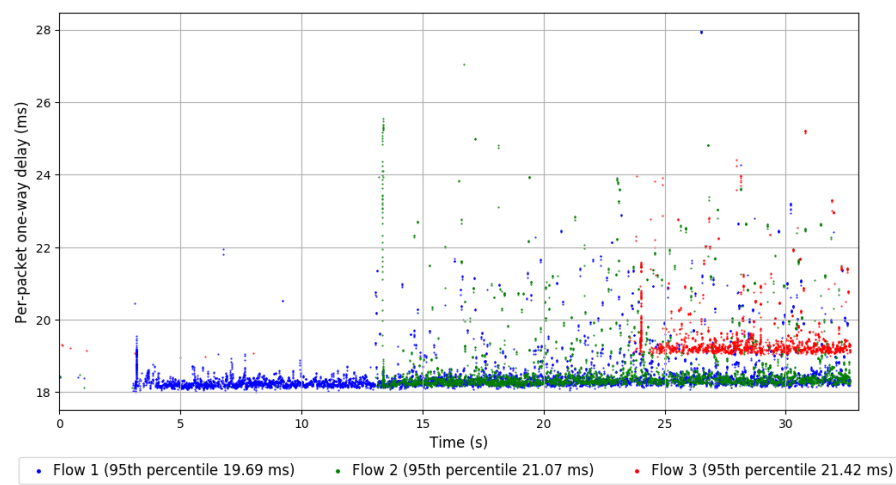
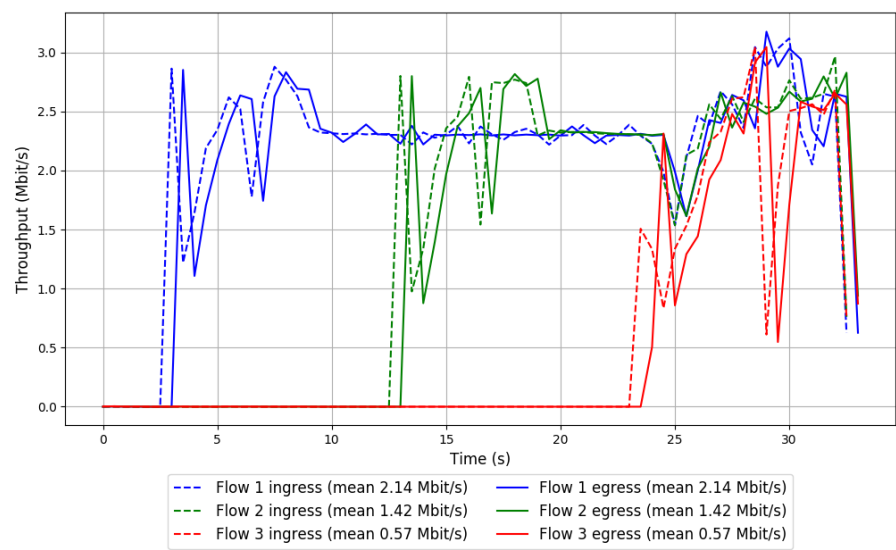


Run 7: Statistics of WebRTC media

Start at: 2018-07-03 21:13:36
End at: 2018-07-03 21:14:06
Local clock offset: -0.522 ms
Remote clock offset: -0.768 ms

Below is generated by plot.py at 2018-07-04 01:19:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 20.499 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 19.691 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 21.074 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 21.422 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

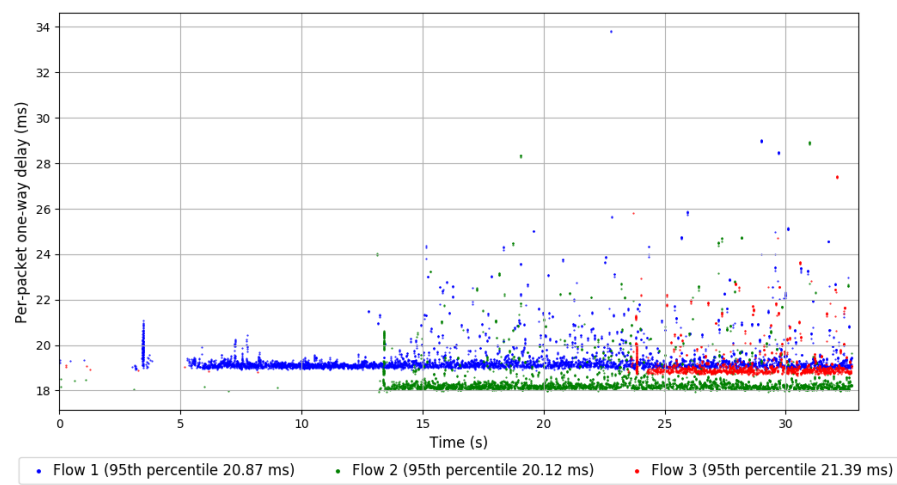
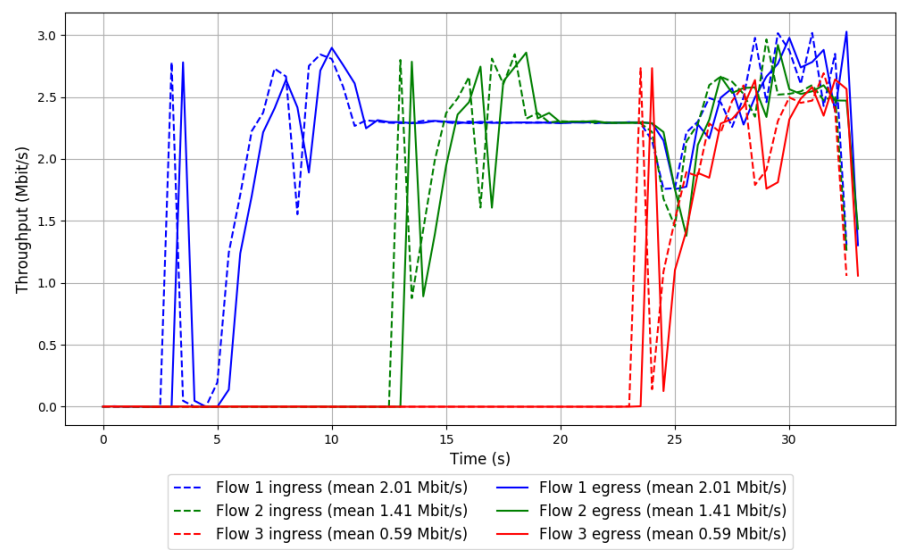


Run 8: Statistics of WebRTC media

Start at: 2018-07-03 21:40:39
End at: 2018-07-03 21:41:09
Local clock offset: 0.303 ms
Remote clock offset: -0.698 ms

Below is generated by plot.py at 2018-07-04 01:19:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 20.702 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 20.874 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 20.118 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 21.385 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-03 22:08:01

End at: 2018-07-03 22:08:31

Local clock offset: 0.054 ms

Remote clock offset: 1.746 ms

Below is generated by plot.py at 2018-07-04 01:19:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 20.784 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 20.657 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 20.057 ms

Loss rate: 0.00%

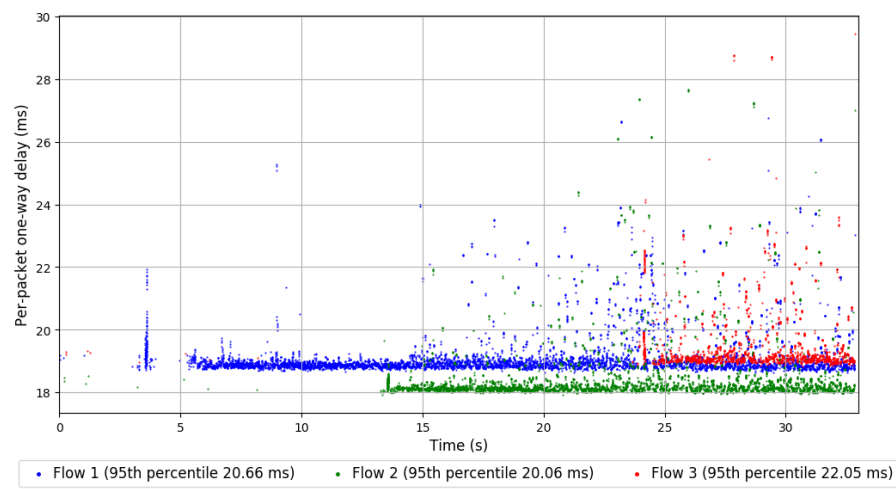
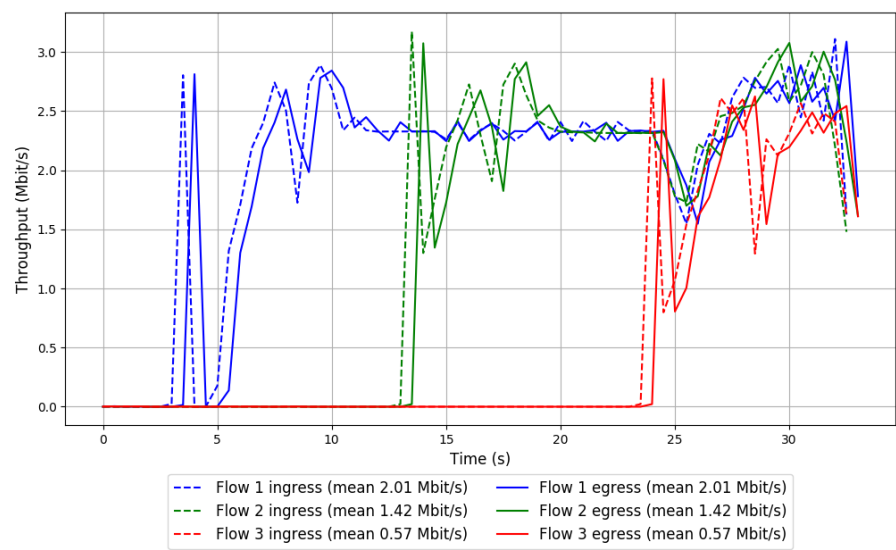
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 22.046 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-03 22:35:08

End at: 2018-07-03 22:35:38

Local clock offset: 0.433 ms

Remote clock offset: 3.372 ms

Below is generated by plot.py at 2018-07-04 01:19:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 20.506 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 20.099 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 20.746 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 20.850 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

