

Pantheon Report

Generated at 2018-08-22 09:30:08 (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.

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

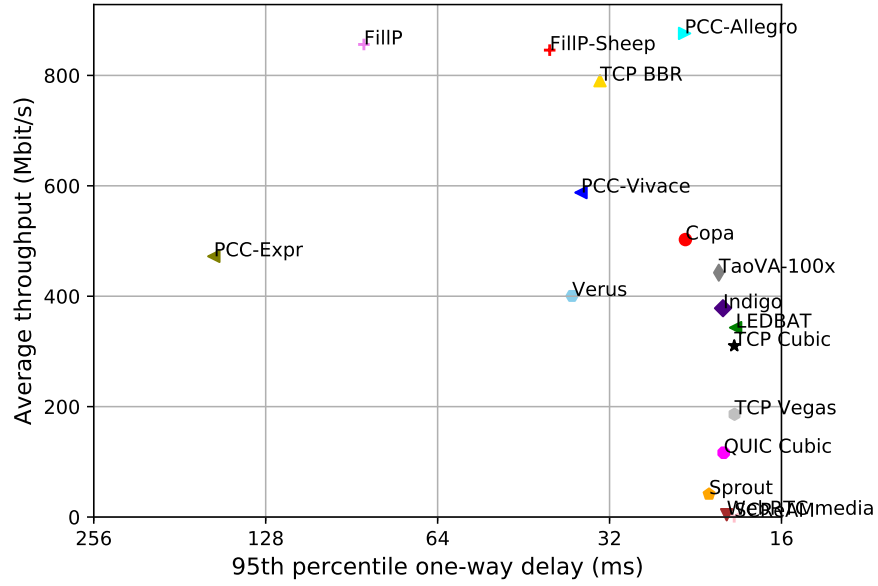
System info:

```
Linux 4.15.0-1017-aws
net.core.default_qdisc = fq_codel
net.core.rmem_default = 16777216
net.core.rmem_max = 33554432
net.core.wmem_default = 212992
net.core.wmem_max = 212992
net.ipv4.tcp_rmem = 4096 87380 6291456
net.ipv4.tcp_wmem = 4096 16384 4194304
```

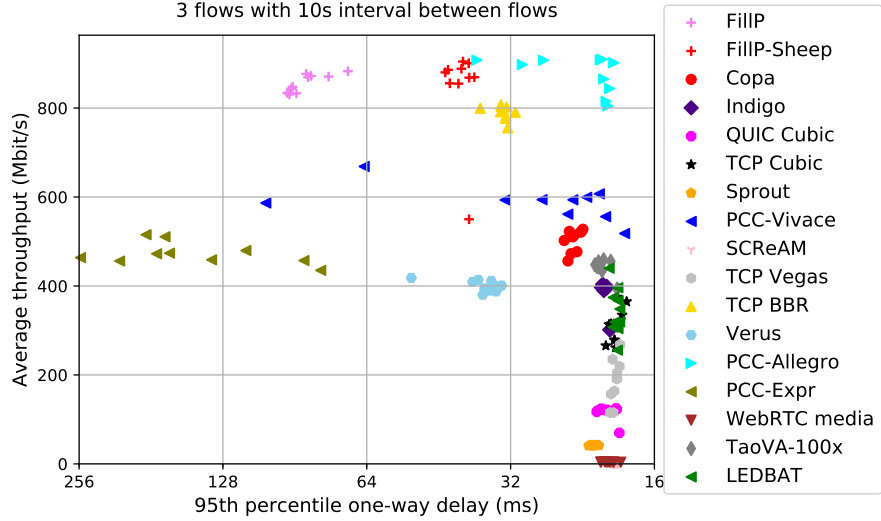
Git summary:

```
branch: master @ 7719b900495aa706f8452ab7d4a94dd562e9296e
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfef58e562f4
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-quic @ 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	457.86	353.41	292.34	34.58	23.85	20.29	5.87	9.82	12.18
Copa	10	270.91	242.26	211.64	23.09	23.68	24.73	0.07	0.12	0.08
TCP Cubic	10	152.95	157.73	156.54	19.71	18.97	19.49	0.15	0.11	0.31
FillP	10	521.10	356.34	294.72	88.19	50.07	50.08	10.14	16.13	17.92
FillP-Sheep	10	498.17	359.26	328.26	40.66	37.97	45.68	13.71	23.98	24.95
Indigo	10	183.62	199.01	193.06	19.88	20.12	20.84	0.21	0.21	0.18
LEDBAT	10	196.83	155.99	127.46	18.94	19.21	19.07	0.03	0.04	0.05
PCC-Allegro	10	748.03	151.36	83.81	24.10	19.85	19.94	1.12	0.80	0.89
PCC-Expr	10	285.03	231.93	99.87	158.63	136.99	22.18	3.65	2.82	0.08
QUIC Cubic	10	59.12	60.99	51.29	19.48	19.80	22.07	0.02	0.04	0.03
SCReAM	10	0.21	0.21	0.21	19.25	18.92	19.07	0.04	0.04	0.10
Sprout	10	20.77	20.86	20.82	21.26	21.30	21.31	0.14	0.18	0.11
TaoVA-100x	10	227.69	226.91	192.01	19.61	20.94	21.82	0.04	0.05	0.06
TCP Vegas	10	91.40	85.35	114.02	19.05	19.34	19.62	0.16	0.32	0.29
Verus	10	217.37	192.91	165.29	37.12	37.47	36.70	22.72	23.59	22.82
PCC-Vivace	10	346.07	319.66	88.27	37.31	23.73	36.48	0.61	0.61	1.39
WebRTC media	10	2.15	1.50	0.52	20.15	19.45	20.18	0.15	0.20	0.06

Run 1: Statistics of TCP BBR

Start at: 2018-08-22 02:49:22

End at: 2018-08-22 02:49:52

Local clock offset: 1.49 ms

Remote clock offset: 0.62 ms

Below is generated by plot.py at 2018-08-22 07:26:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 799.47 Mbit/s

95th percentile per-packet one-way delay: 37.032 ms

Loss rate: 8.31%

-- Flow 1:

Average throughput: 473.78 Mbit/s

95th percentile per-packet one-way delay: 38.747 ms

Loss rate: 5.73%

-- Flow 2:

Average throughput: 332.55 Mbit/s

95th percentile per-packet one-way delay: 21.452 ms

Loss rate: 11.80%

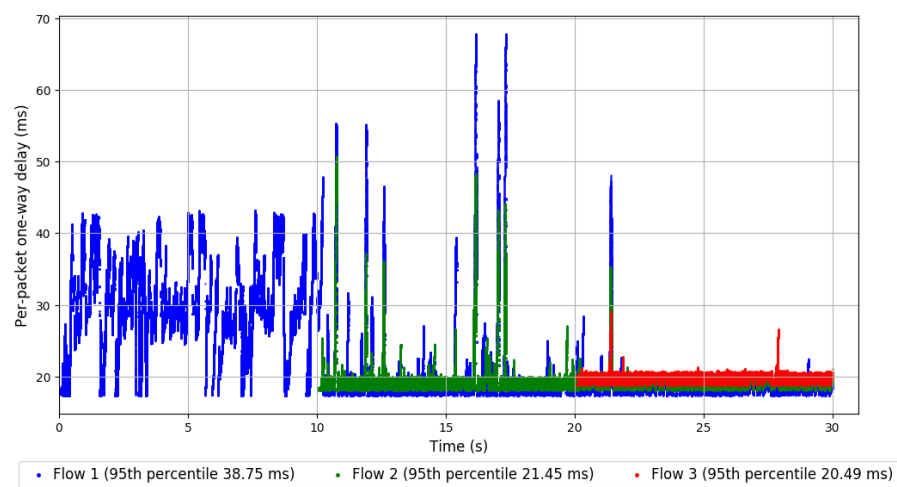
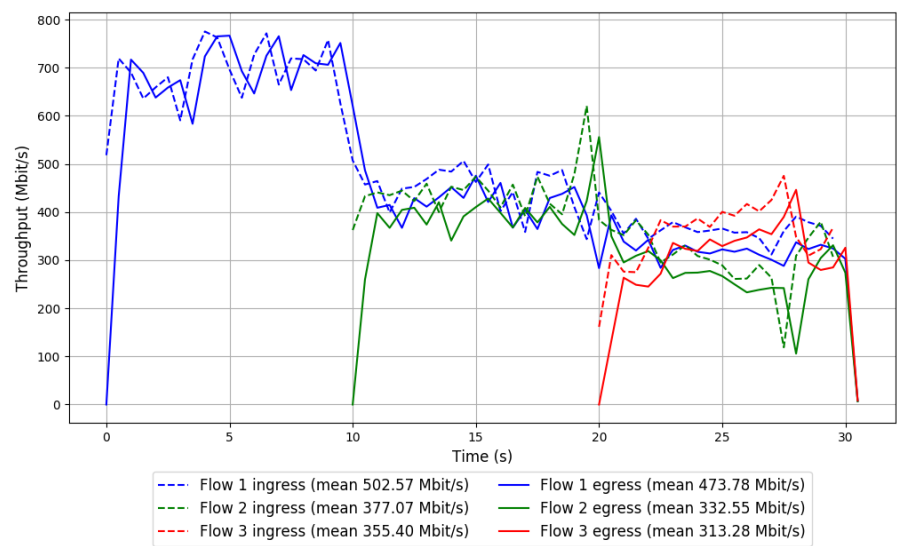
-- Flow 3:

Average throughput: 313.28 Mbit/s

95th percentile per-packet one-way delay: 20.486 ms

Loss rate: 11.85%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-08-22 03:16:47

End at: 2018-08-22 03:17:17

Local clock offset: 1.143 ms

Remote clock offset: 3.876 ms

Below is generated by plot.py at 2018-08-22 07:26:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 807.53 Mbit/s

95th percentile per-packet one-way delay: 33.546 ms

Loss rate: 7.89%

-- Flow 1:

Average throughput: 469.96 Mbit/s

95th percentile per-packet one-way delay: 34.799 ms

Loss rate: 5.46%

-- Flow 2:

Average throughput: 363.31 Mbit/s

95th percentile per-packet one-way delay: 22.536 ms

Loss rate: 10.23%

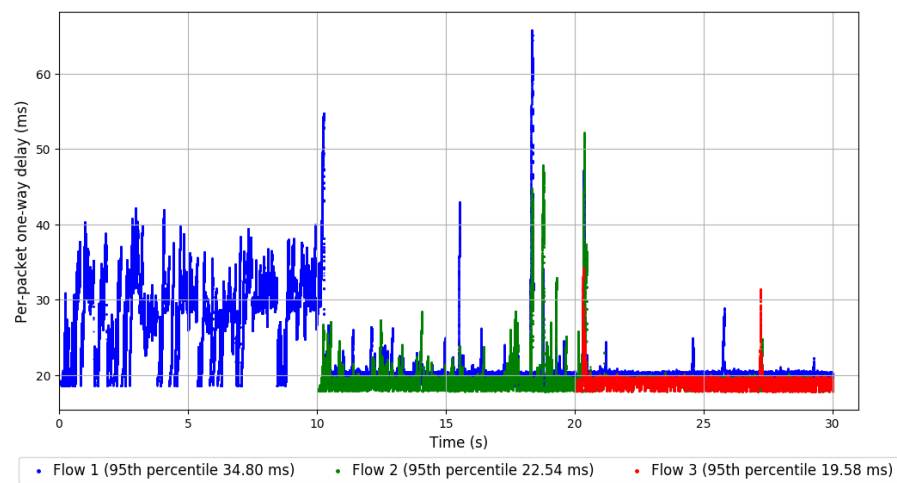
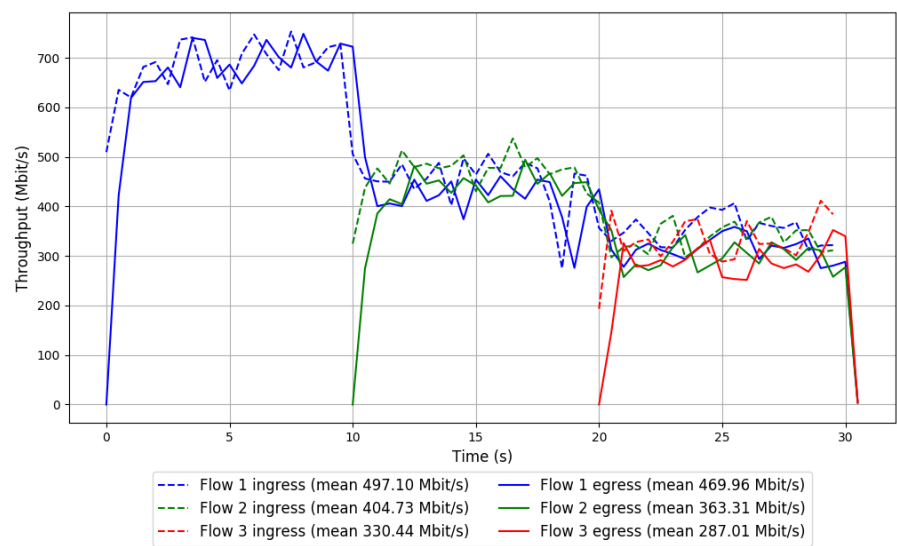
-- Flow 3:

Average throughput: 287.01 Mbit/s

95th percentile per-packet one-way delay: 19.576 ms

Loss rate: 13.14%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-22 03:44:02

End at: 2018-08-22 03:44:32

Local clock offset: -1.18 ms

Remote clock offset: 3.93 ms

Below is generated by plot.py at 2018-08-22 07:26:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 791.63 Mbit/s

95th percentile per-packet one-way delay: 33.582 ms

Loss rate: 7.70%

-- Flow 1:

Average throughput: 470.14 Mbit/s

95th percentile per-packet one-way delay: 34.734 ms

Loss rate: 5.34%

-- Flow 2:

Average throughput: 358.63 Mbit/s

95th percentile per-packet one-way delay: 23.334 ms

Loss rate: 9.96%

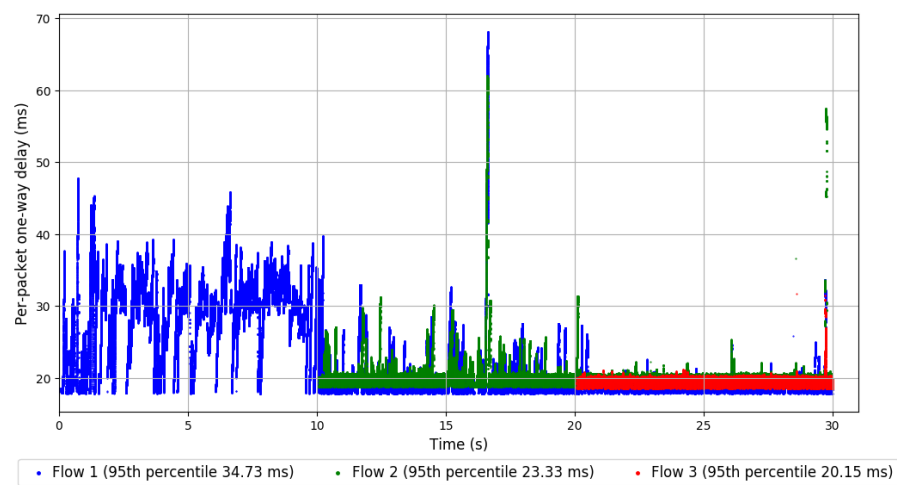
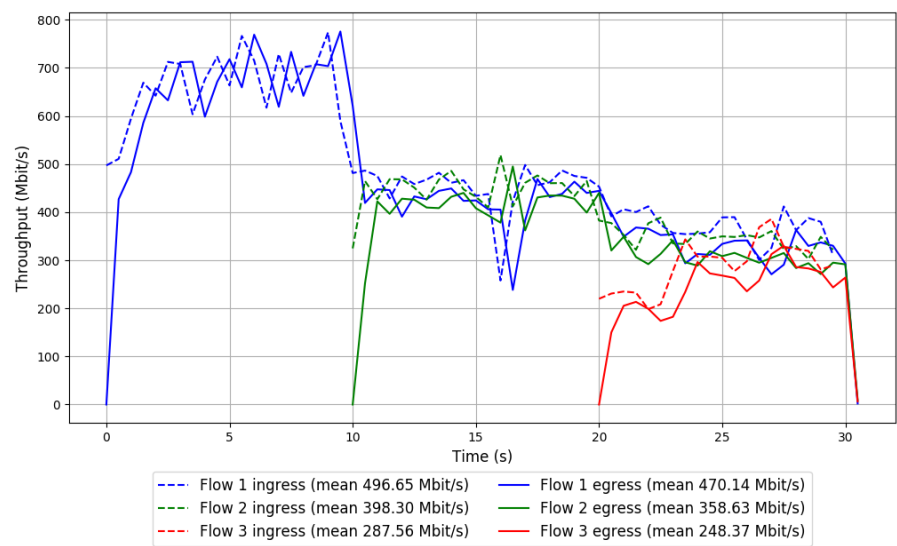
-- Flow 3:

Average throughput: 248.37 Mbit/s

95th percentile per-packet one-way delay: 20.149 ms

Loss rate: 13.67%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-08-22 04:11:28

End at: 2018-08-22 04:11:59

Local clock offset: -3.076 ms

Remote clock offset: 3.766 ms

Below is generated by plot.py at 2018-08-22 07:26:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 794.22 Mbit/s

95th percentile per-packet one-way delay: 33.095 ms

Loss rate: 7.84%

-- Flow 1:

Average throughput: 446.94 Mbit/s

95th percentile per-packet one-way delay: 34.317 ms

Loss rate: 5.86%

-- Flow 2:

Average throughput: 364.37 Mbit/s

95th percentile per-packet one-way delay: 25.936 ms

Loss rate: 9.46%

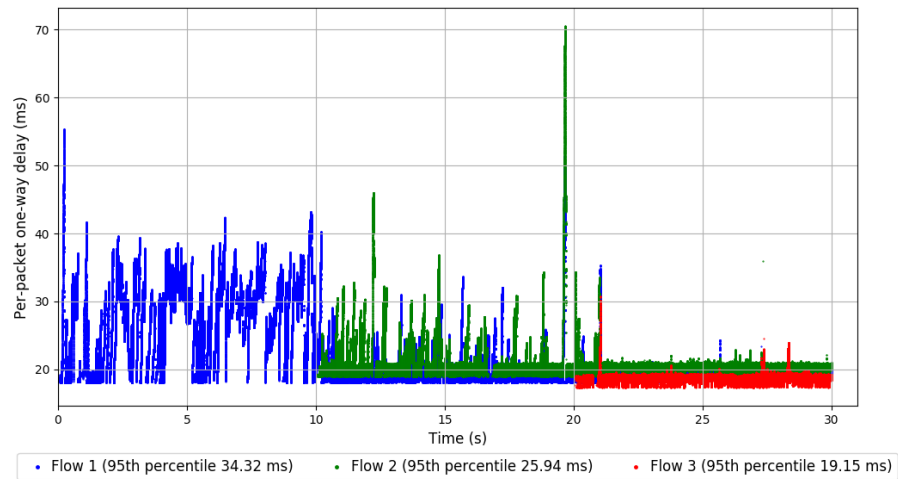
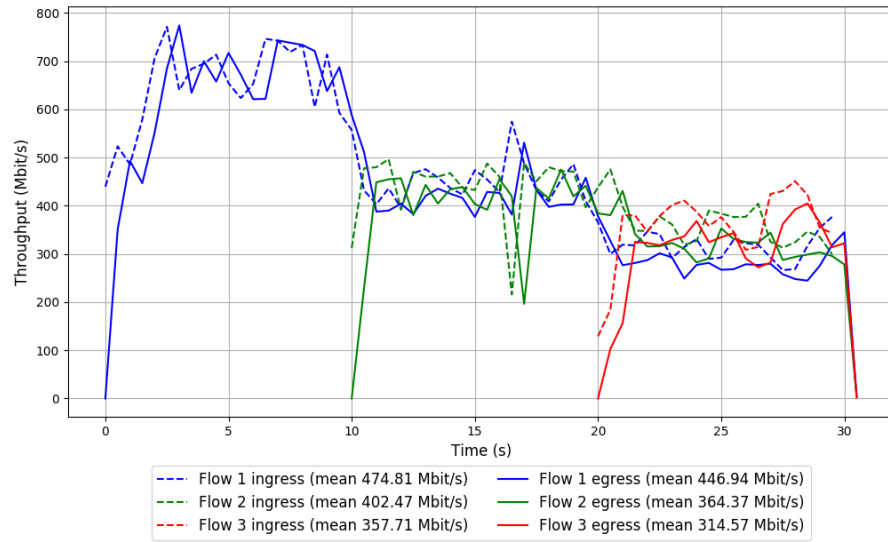
-- Flow 3:

Average throughput: 314.57 Mbit/s

95th percentile per-packet one-way delay: 19.148 ms

Loss rate: 12.05%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-08-22 04:38:38

End at: 2018-08-22 04:39:08

Local clock offset: -2.553 ms

Remote clock offset: 3.542 ms

Below is generated by plot.py at 2018-08-22 07:26:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 802.65 Mbit/s

95th percentile per-packet one-way delay: 32.618 ms

Loss rate: 8.14%

-- Flow 1:

Average throughput: 490.77 Mbit/s

95th percentile per-packet one-way delay: 33.492 ms

Loss rate: 6.06%

-- Flow 2:

Average throughput: 324.88 Mbit/s

95th percentile per-packet one-way delay: 23.691 ms

Loss rate: 10.50%

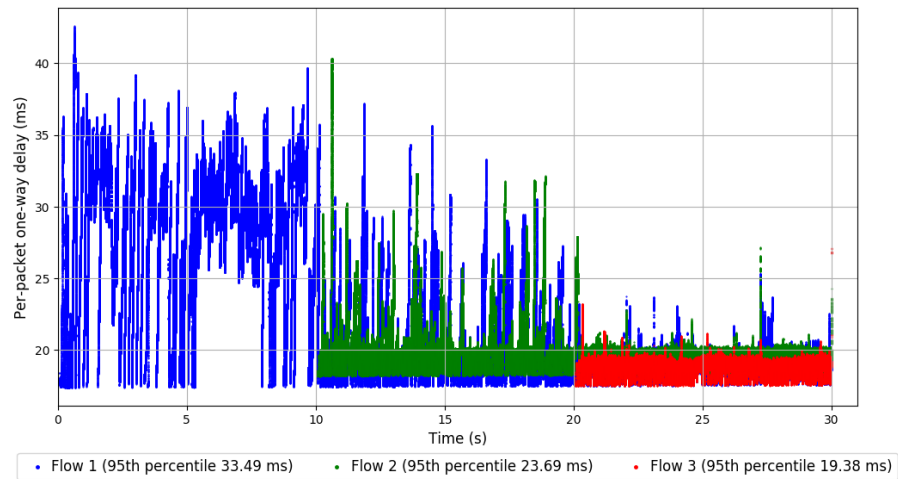
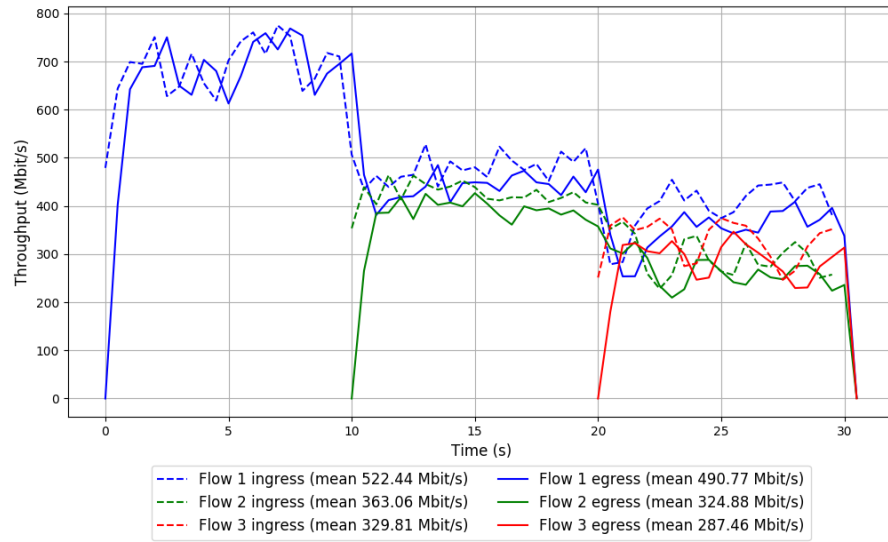
-- Flow 3:

Average throughput: 287.46 Mbit/s

95th percentile per-packet one-way delay: 19.384 ms

Loss rate: 12.84%

Run 5: Report of TCP BBR — Data Link

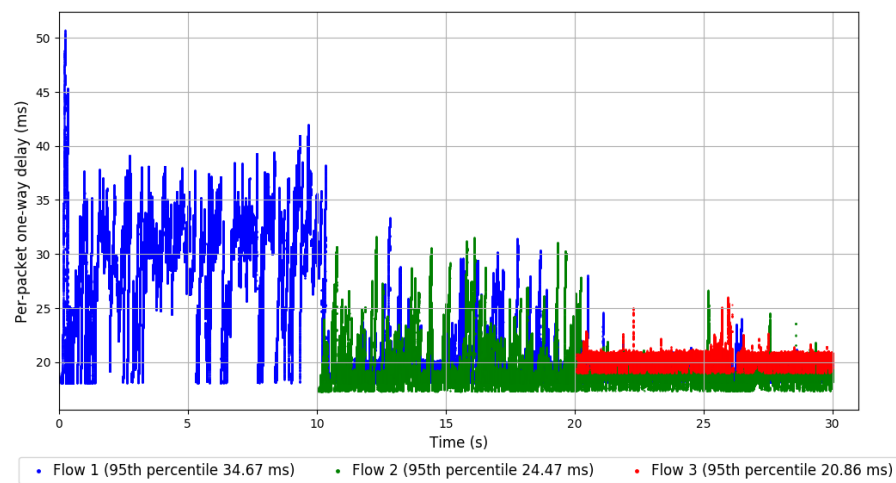
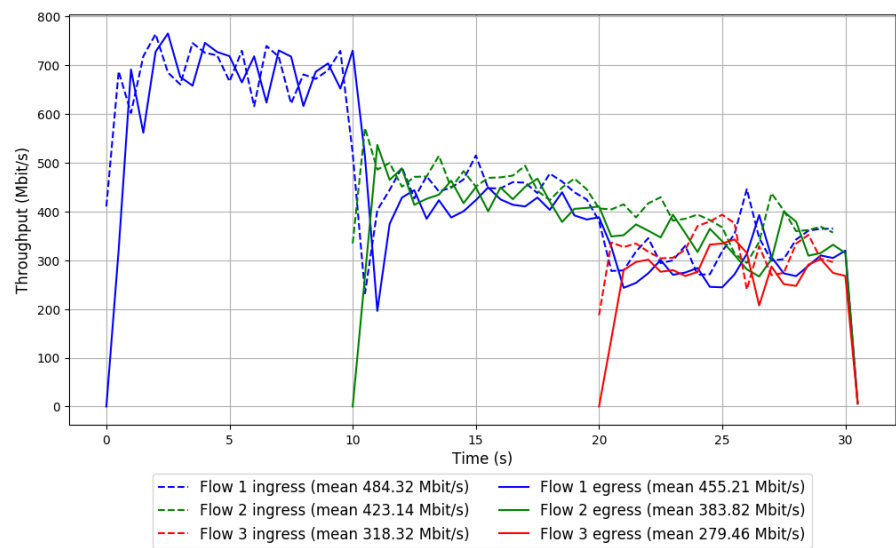


Run 6: Statistics of TCP BBR

Start at: 2018-08-22 05:05:55
End at: 2018-08-22 05:06:25
Local clock offset: 1.186 ms
Remote clock offset: -1.318 ms

Below is generated by plot.py at 2018-08-22 07:26:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 803.82 Mbit/s
95th percentile per-packet one-way delay: 33.468 ms
Loss rate: 7.82%
-- Flow 1:
Average throughput: 455.21 Mbit/s
95th percentile per-packet one-way delay: 34.667 ms
Loss rate: 6.01%
-- Flow 2:
Average throughput: 383.82 Mbit/s
95th percentile per-packet one-way delay: 24.467 ms
Loss rate: 9.29%
-- Flow 3:
Average throughput: 279.46 Mbit/s
95th percentile per-packet one-way delay: 20.863 ms
Loss rate: 12.20%

Run 6: Report of TCP BBR — Data Link

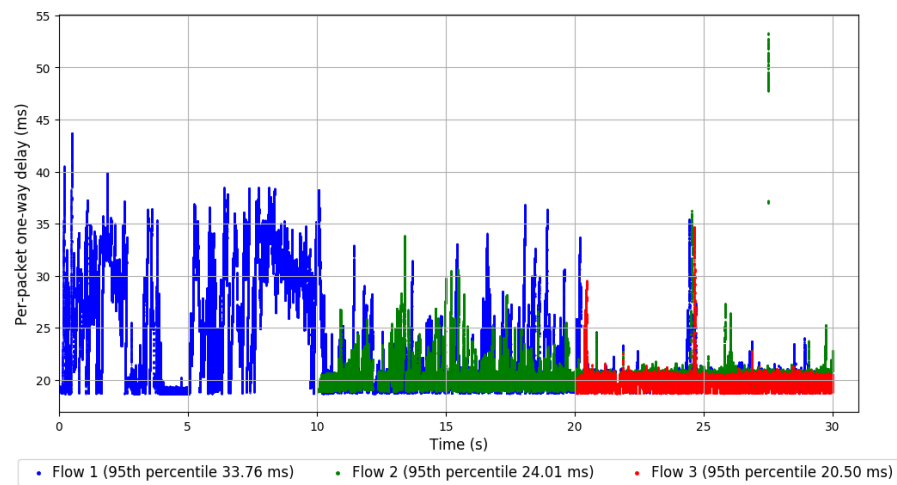
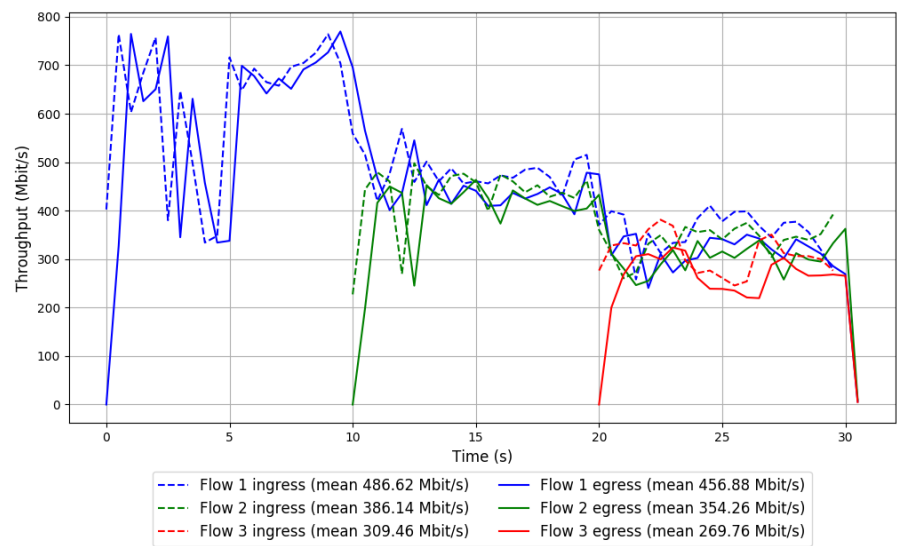


Run 7: Statistics of TCP BBR

Start at: 2018-08-22 05:33:14
End at: 2018-08-22 05:33:44
Local clock offset: 1.072 ms
Remote clock offset: -2.977 ms

Below is generated by plot.py at 2018-08-22 07:26:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 782.62 Mbit/s
95th percentile per-packet one-way delay: 32.712 ms
Loss rate: 7.58%
-- Flow 1:
Average throughput: 456.88 Mbit/s
95th percentile per-packet one-way delay: 33.760 ms
Loss rate: 6.11%
-- Flow 2:
Average throughput: 354.26 Mbit/s
95th percentile per-packet one-way delay: 24.006 ms
Loss rate: 8.26%
-- Flow 3:
Average throughput: 269.76 Mbit/s
95th percentile per-packet one-way delay: 20.496 ms
Loss rate: 12.83%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-22 06:00:23

End at: 2018-08-22 06:00:53

Local clock offset: -2.822 ms

Remote clock offset: 1.756 ms

Below is generated by plot.py at 2018-08-22 07:26:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 776.92 Mbit/s

95th percentile per-packet one-way delay: 32.796 ms

Loss rate: 7.91%

-- Flow 1:

Average throughput: 421.45 Mbit/s

95th percentile per-packet one-way delay: 34.389 ms

Loss rate: 6.27%

-- Flow 2:

Average throughput: 351.95 Mbit/s

95th percentile per-packet one-way delay: 24.275 ms

Loss rate: 9.50%

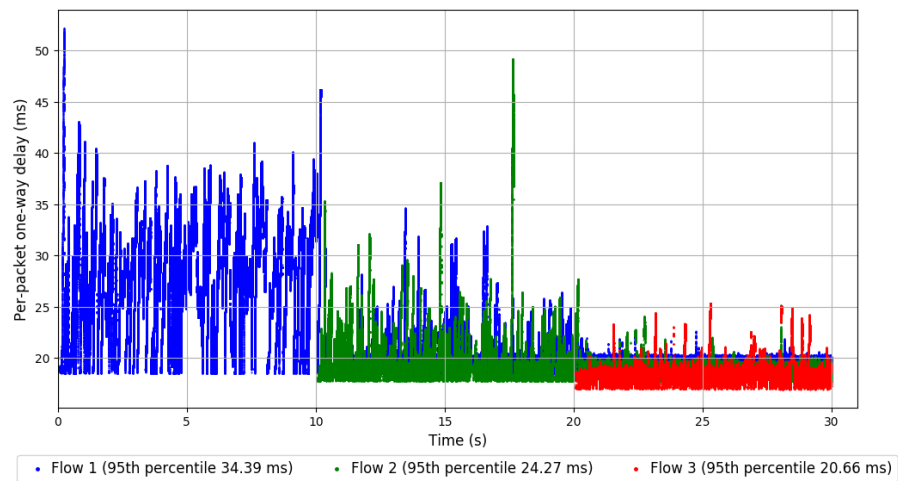
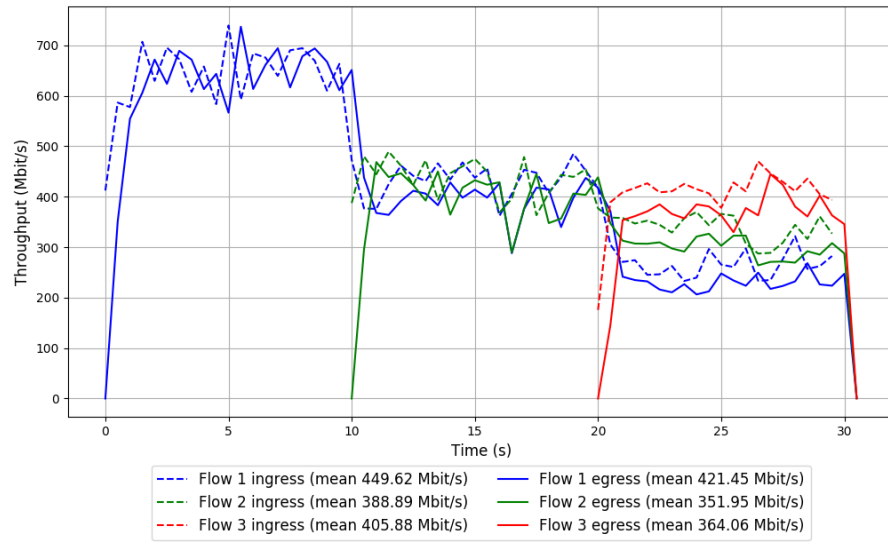
-- Flow 3:

Average throughput: 364.06 Mbit/s

95th percentile per-packet one-way delay: 20.663 ms

Loss rate: 10.30%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-22 06:27:05

End at: 2018-08-22 06:27:35

Local clock offset: 0.774 ms

Remote clock offset: 4.985 ms

Below is generated by plot.py at 2018-08-22 07:34:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 790.69 Mbit/s

95th percentile per-packet one-way delay: 31.275 ms

Loss rate: 8.18%

-- Flow 1:

Average throughput: 457.81 Mbit/s

95th percentile per-packet one-way delay: 33.074 ms

Loss rate: 6.56%

-- Flow 2:

Average throughput: 352.73 Mbit/s

95th percentile per-packet one-way delay: 24.735 ms

Loss rate: 9.81%

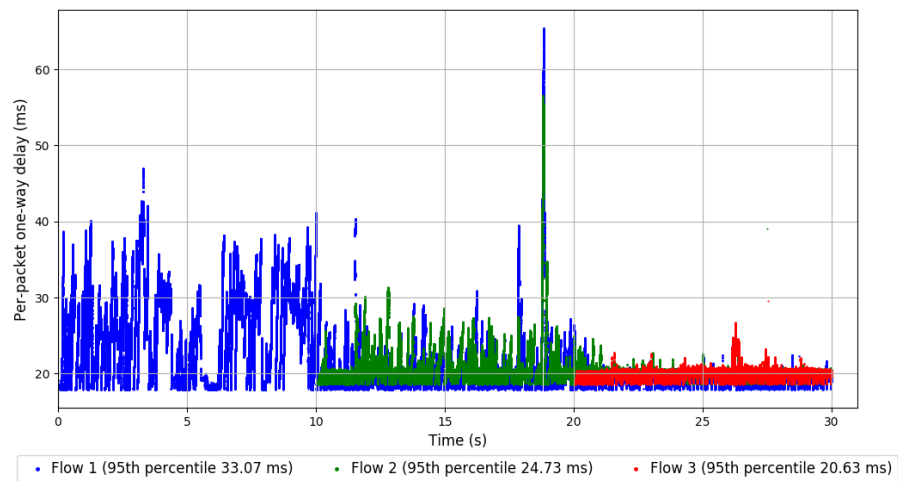
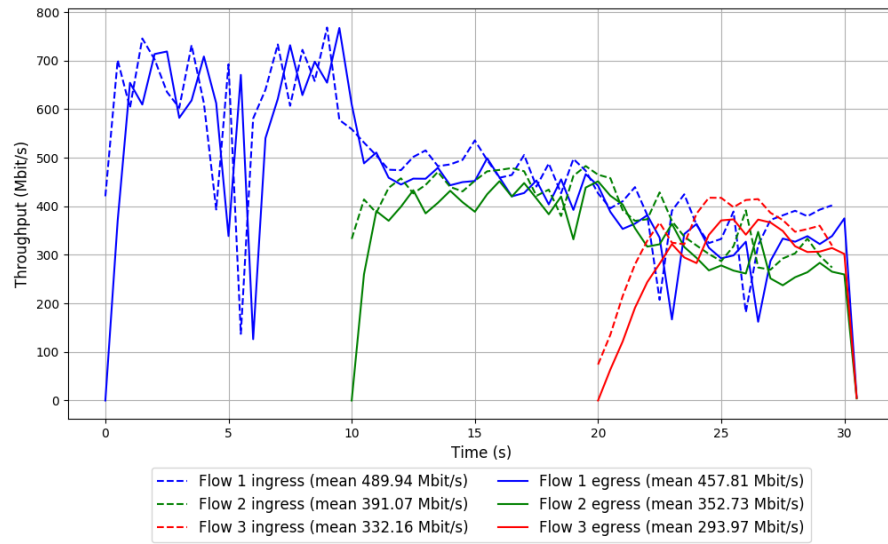
-- Flow 3:

Average throughput: 293.97 Mbit/s

95th percentile per-packet one-way delay: 20.626 ms

Loss rate: 11.51%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-08-22 06:54:11

End at: 2018-08-22 06:54:41

Local clock offset: 0.676 ms

Remote clock offset: 6.865 ms

Below is generated by plot.py at 2018-08-22 07:34:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 755.47 Mbit/s

95th percentile per-packet one-way delay: 32.446 ms

Loss rate: 7.30%

-- Flow 1:

Average throughput: 435.69 Mbit/s

95th percentile per-packet one-way delay: 33.864 ms

Loss rate: 5.28%

-- Flow 2:

Average throughput: 347.55 Mbit/s

95th percentile per-packet one-way delay: 24.063 ms

Loss rate: 9.35%

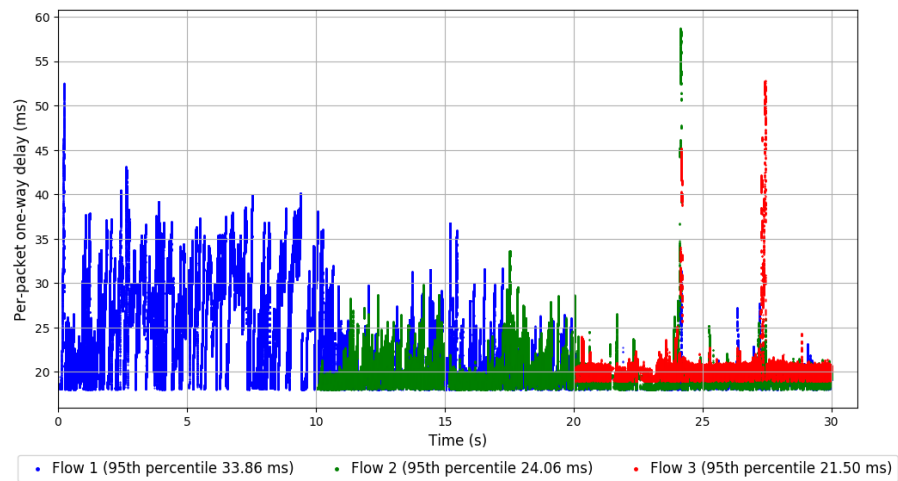
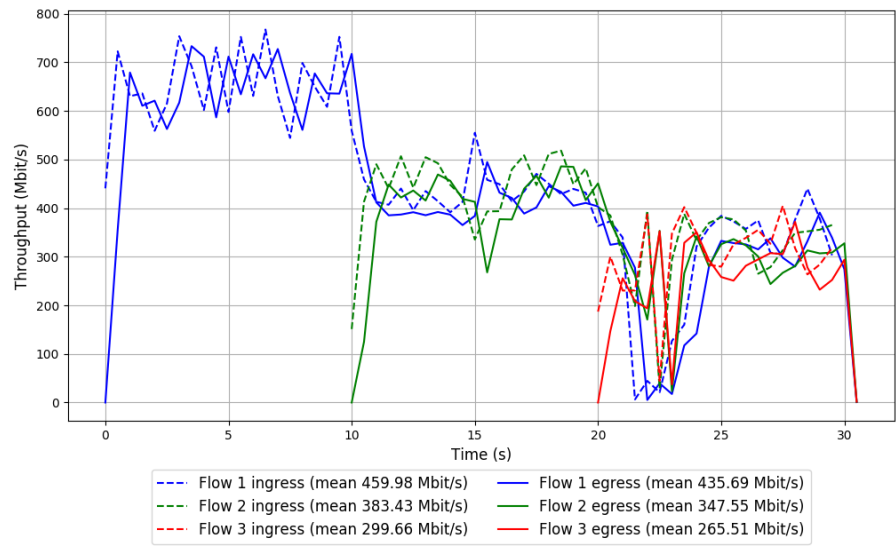
-- Flow 3:

Average throughput: 265.51 Mbit/s

95th percentile per-packet one-way delay: 21.502 ms

Loss rate: 11.40%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-08-22 02:43:02

End at: 2018-08-22 02:43:32

Local clock offset: 1.418 ms

Remote clock offset: 0.369 ms

Below is generated by plot.py at 2018-08-22 07:37:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 527.50 Mbit/s

95th percentile per-packet one-way delay: 22.584 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 286.92 Mbit/s

95th percentile per-packet one-way delay: 22.508 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 246.14 Mbit/s

95th percentile per-packet one-way delay: 22.490 ms

Loss rate: 0.04%

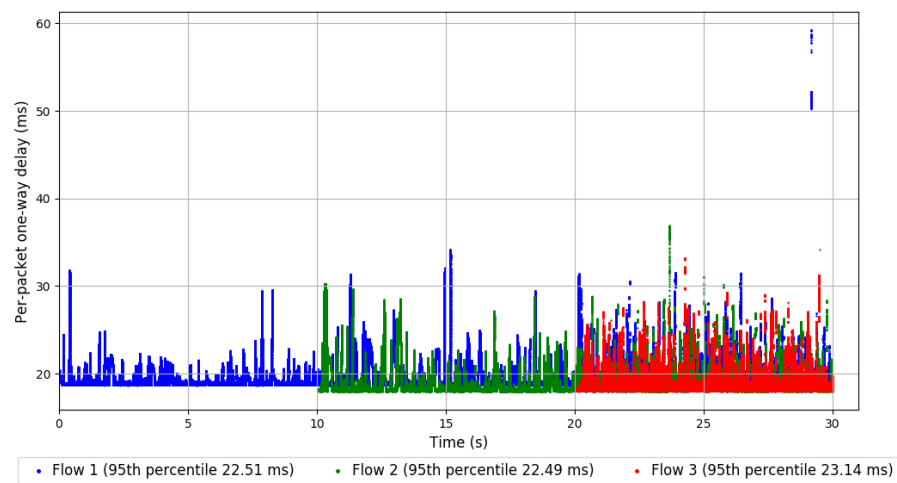
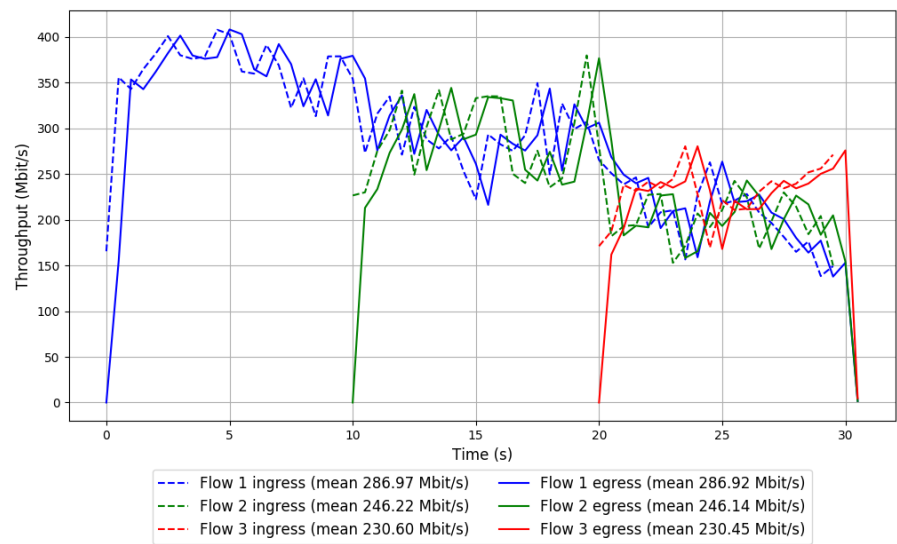
-- Flow 3:

Average throughput: 230.45 Mbit/s

95th percentile per-packet one-way delay: 23.139 ms

Loss rate: 0.08%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-08-22 03:10:26

End at: 2018-08-22 03:10:56

Local clock offset: 1.627 ms

Remote clock offset: 3.178 ms

Below is generated by plot.py at 2018-08-22 07:37:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 521.16 Mbit/s

95th percentile per-packet one-way delay: 22.837 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 280.40 Mbit/s

95th percentile per-packet one-way delay: 22.967 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 251.27 Mbit/s

95th percentile per-packet one-way delay: 21.529 ms

Loss rate: 0.05%

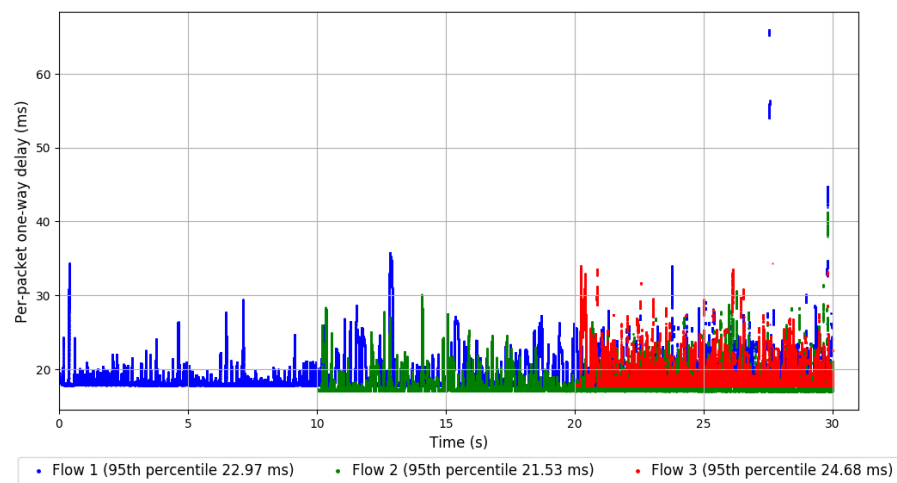
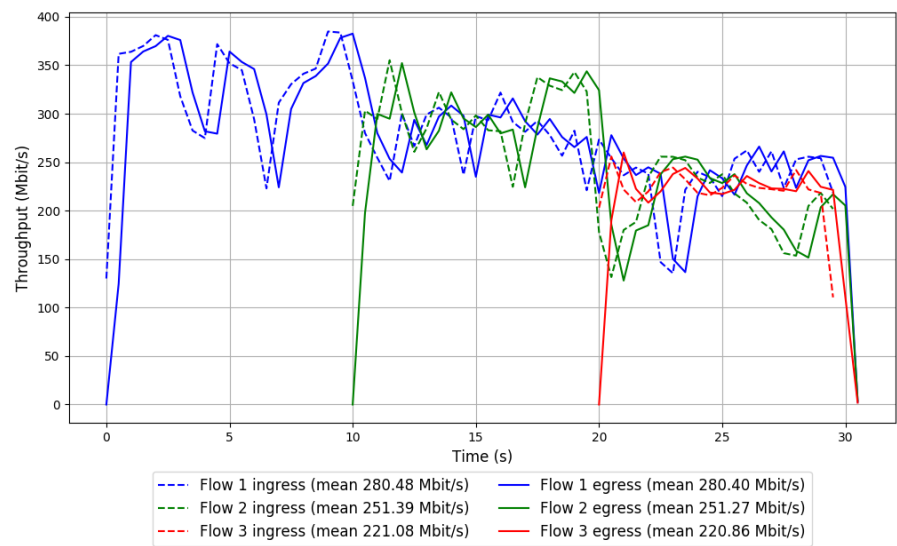
-- Flow 3:

Average throughput: 220.86 Mbit/s

95th percentile per-packet one-way delay: 24.681 ms

Loss rate: 0.09%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-08-22 03:37:39

End at: 2018-08-22 03:38:09

Local clock offset: 0.738 ms

Remote clock offset: 4.238 ms

Below is generated by plot.py at 2018-08-22 07:37:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 522.05 Mbit/s

95th percentile per-packet one-way delay: 22.744 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 274.81 Mbit/s

95th percentile per-packet one-way delay: 21.464 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 266.42 Mbit/s

95th percentile per-packet one-way delay: 24.290 ms

Loss rate: 0.02%

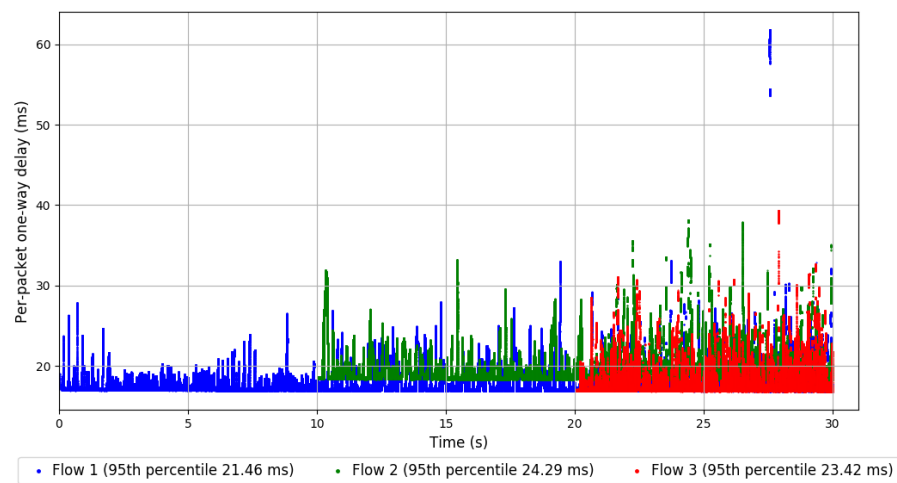
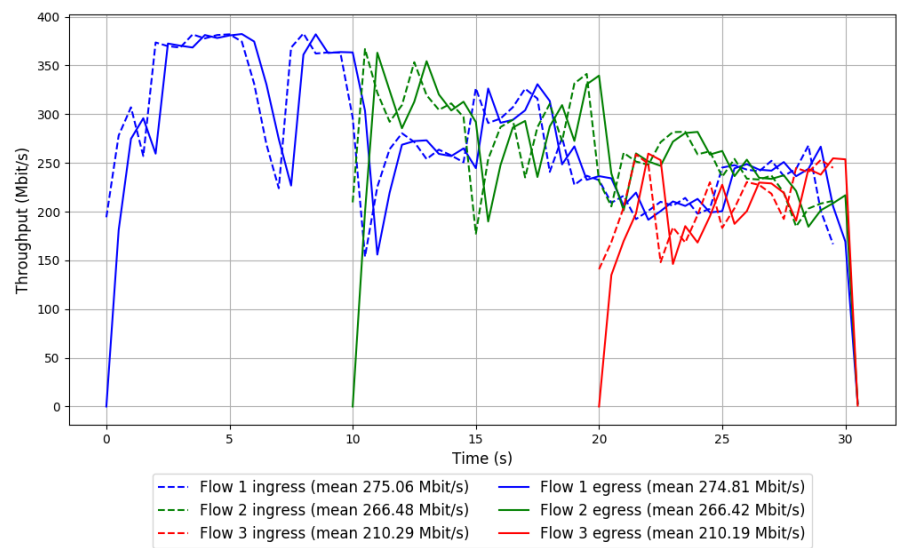
-- Flow 3:

Average throughput: 210.19 Mbit/s

95th percentile per-packet one-way delay: 23.416 ms

Loss rate: 0.05%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-08-22 04:05:07

End at: 2018-08-22 04:05:37

Local clock offset: -3.336 ms

Remote clock offset: 4.273 ms

Below is generated by plot.py at 2018-08-22 07:37:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 510.51 Mbit/s

95th percentile per-packet one-way delay: 23.718 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 282.92 Mbit/s

95th percentile per-packet one-way delay: 23.226 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 243.14 Mbit/s

95th percentile per-packet one-way delay: 23.749 ms

Loss rate: 0.06%

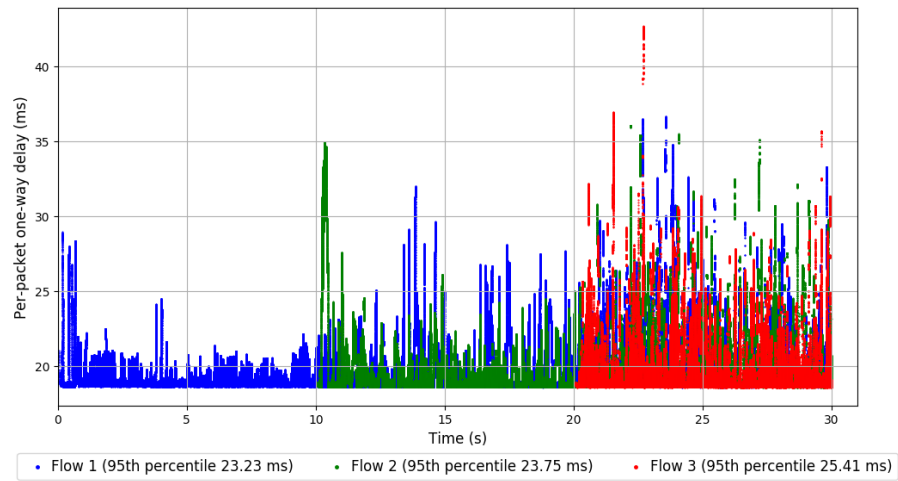
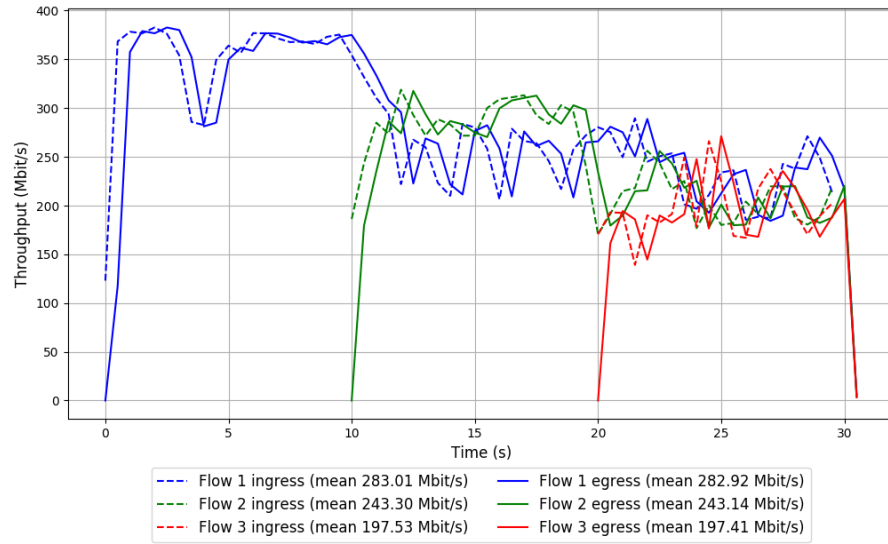
-- Flow 3:

Average throughput: 197.41 Mbit/s

95th percentile per-packet one-way delay: 25.406 ms

Loss rate: 0.06%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-08-22 04:32:20

End at: 2018-08-22 04:32:50

Local clock offset: -2.985 ms

Remote clock offset: 3.498 ms

Below is generated by plot.py at 2018-08-22 07:37:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 472.62 Mbit/s

95th percentile per-packet one-way delay: 23.920 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 251.51 Mbit/s

95th percentile per-packet one-way delay: 23.453 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 235.94 Mbit/s

95th percentile per-packet one-way delay: 24.252 ms

Loss rate: 0.36%

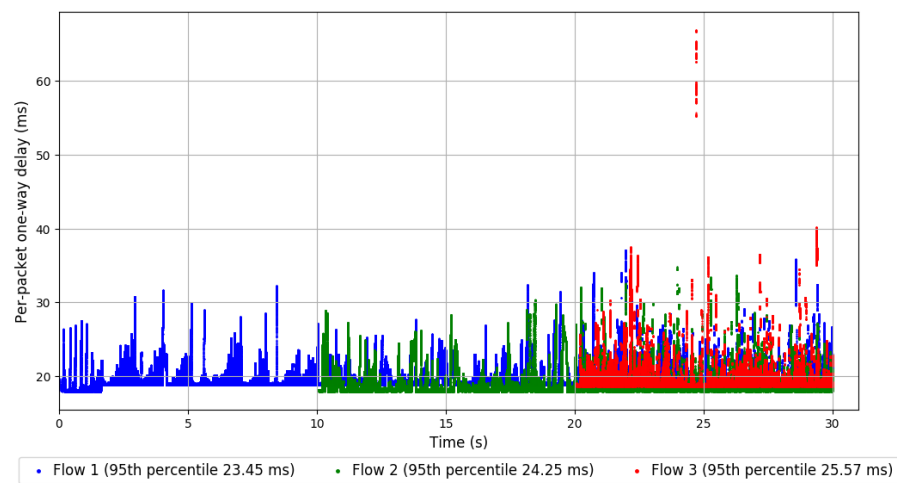
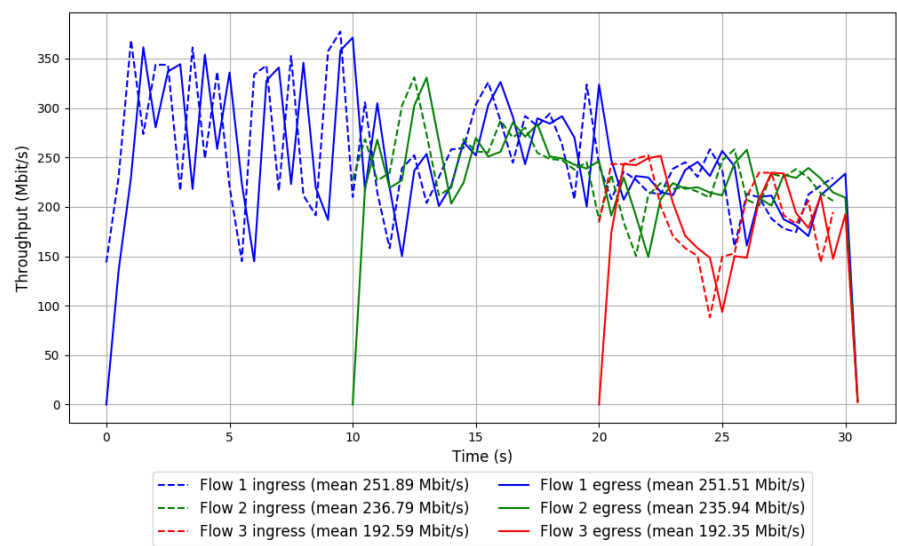
-- Flow 3:

Average throughput: 192.35 Mbit/s

95th percentile per-packet one-way delay: 25.566 ms

Loss rate: 0.14%

Run 5: Report of Copa — Data Link

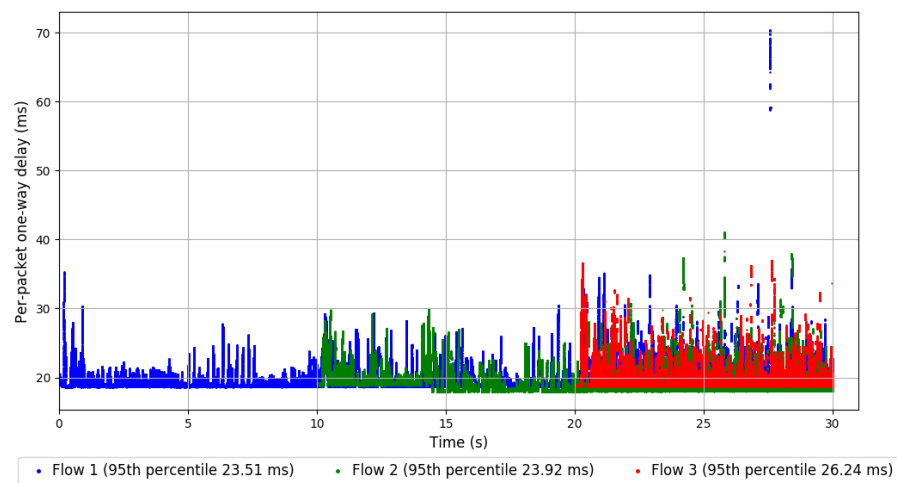
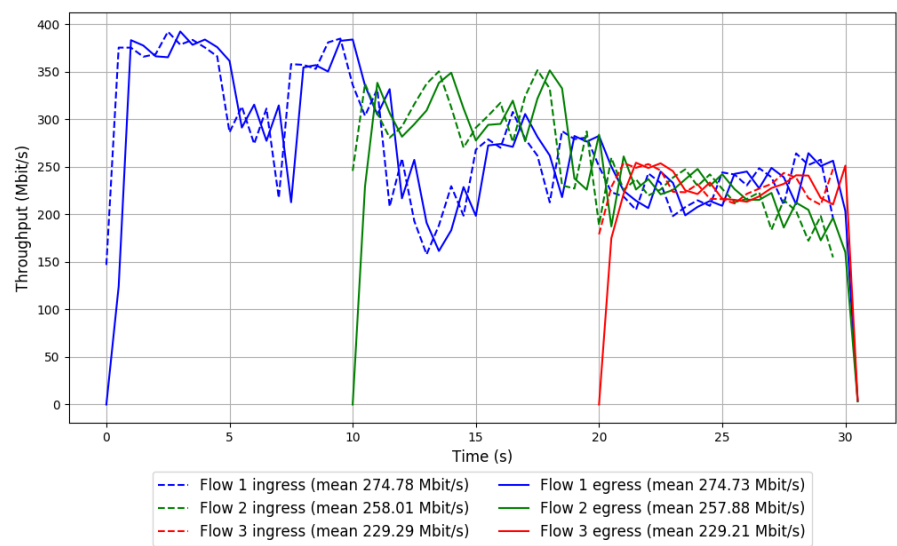


Run 6: Statistics of Copa

Start at: 2018-08-22 04:59:33
End at: 2018-08-22 05:00:04
Local clock offset: 0.935 ms
Remote clock offset: -0.764 ms

Below is generated by plot.py at 2018-08-22 07:37:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 522.69 Mbit/s
95th percentile per-packet one-way delay: 24.106 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 274.73 Mbit/s
95th percentile per-packet one-way delay: 23.506 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 257.88 Mbit/s
95th percentile per-packet one-way delay: 23.916 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 229.21 Mbit/s
95th percentile per-packet one-way delay: 26.236 ms
Loss rate: 0.03%

Run 6: Report of Copa — Data Link

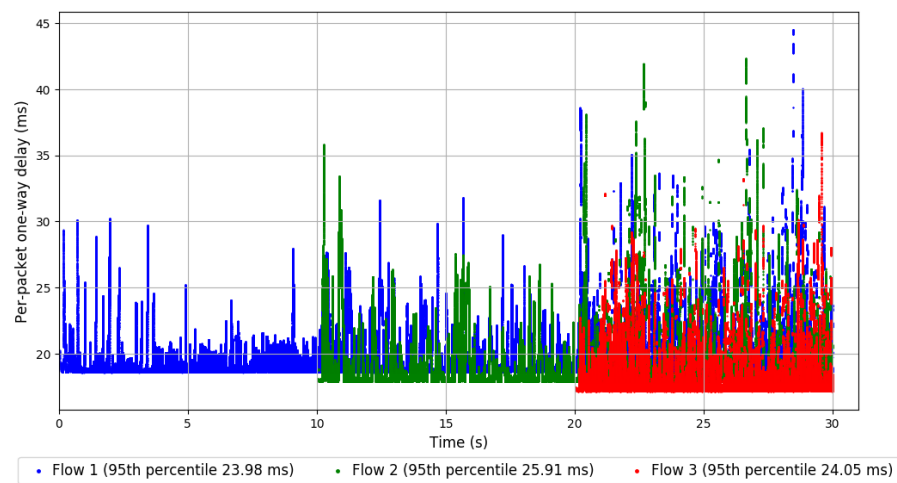
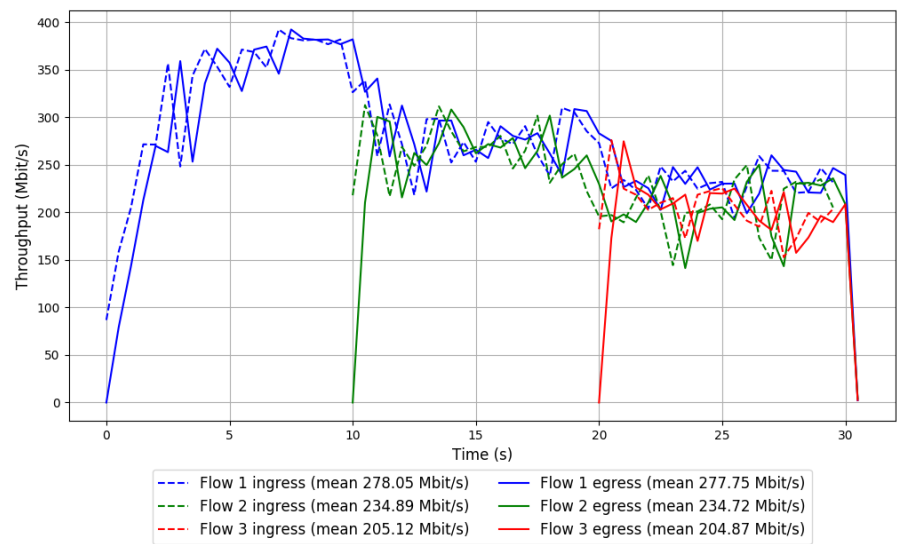


Run 7: Statistics of Copa

Start at: 2018-08-22 05:26:54
End at: 2018-08-22 05:27:24
Local clock offset: 1.011 ms
Remote clock offset: -2.686 ms

Below is generated by plot.py at 2018-08-22 07:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 502.24 Mbit/s
95th percentile per-packet one-way delay: 24.713 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 277.75 Mbit/s
95th percentile per-packet one-way delay: 23.978 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 234.72 Mbit/s
95th percentile per-packet one-way delay: 25.911 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 204.87 Mbit/s
95th percentile per-packet one-way delay: 24.051 ms
Loss rate: 0.11%

Run 7: Report of Copa — Data Link

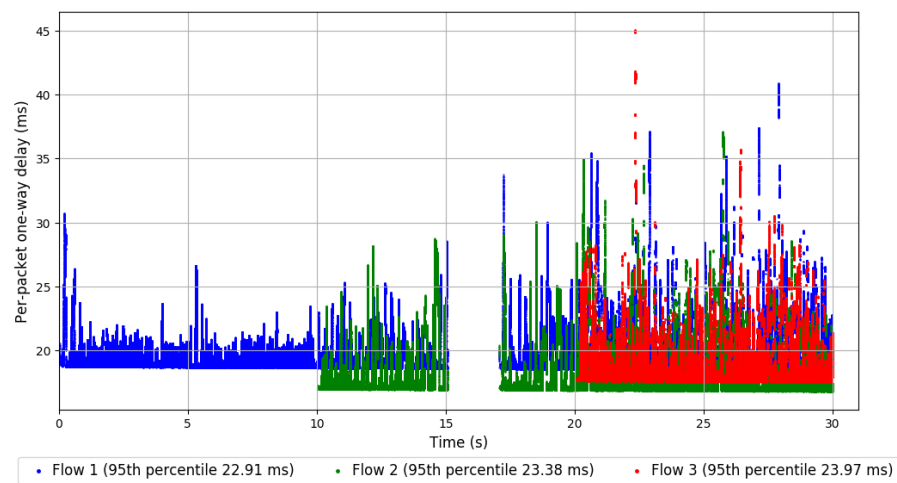
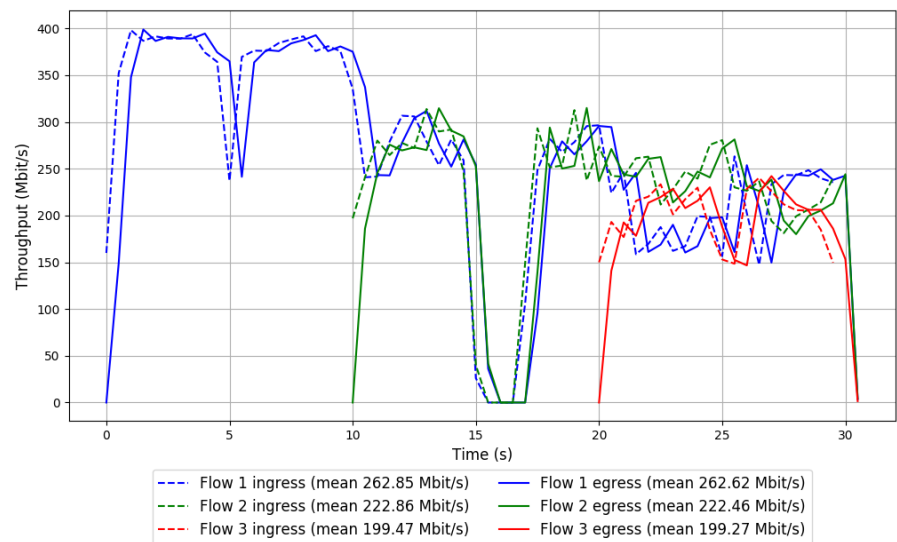


Run 8: Statistics of Copa

Start at: 2018-08-22 05:54:03
End at: 2018-08-22 05:54:33
Local clock offset: -2.45 ms
Remote clock offset: -0.516 ms

Below is generated by plot.py at 2018-08-22 07:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 477.03 Mbit/s
95th percentile per-packet one-way delay: 23.241 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 262.62 Mbit/s
95th percentile per-packet one-way delay: 22.912 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 222.46 Mbit/s
95th percentile per-packet one-way delay: 23.380 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 199.27 Mbit/s
95th percentile per-packet one-way delay: 23.968 ms
Loss rate: 0.09%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-08-22 06:21:01

End at: 2018-08-22 06:21:31

Local clock offset: 0.18 ms

Remote clock offset: 4.61 ms

Below is generated by plot.py at 2018-08-22 07:47:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 514.20 Mbit/s

95th percentile per-packet one-way delay: 23.550 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 273.54 Mbit/s

95th percentile per-packet one-way delay: 23.385 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 255.89 Mbit/s

95th percentile per-packet one-way delay: 23.129 ms

Loss rate: 0.07%

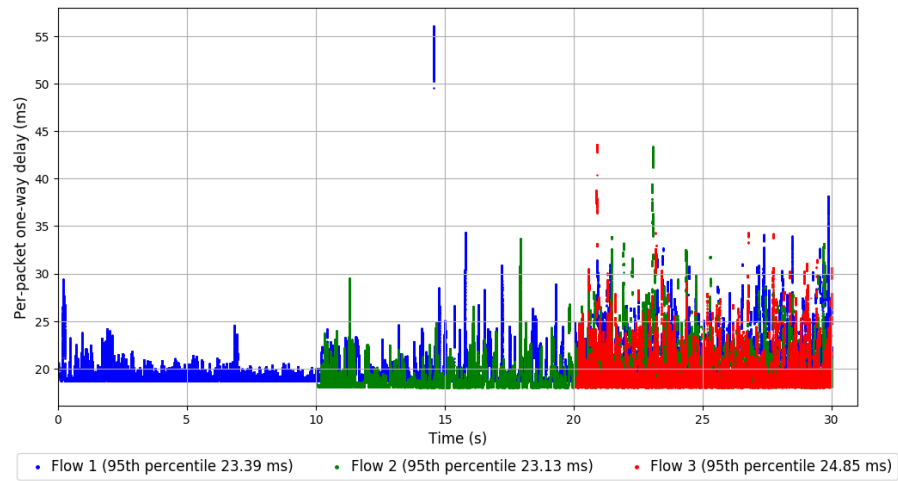
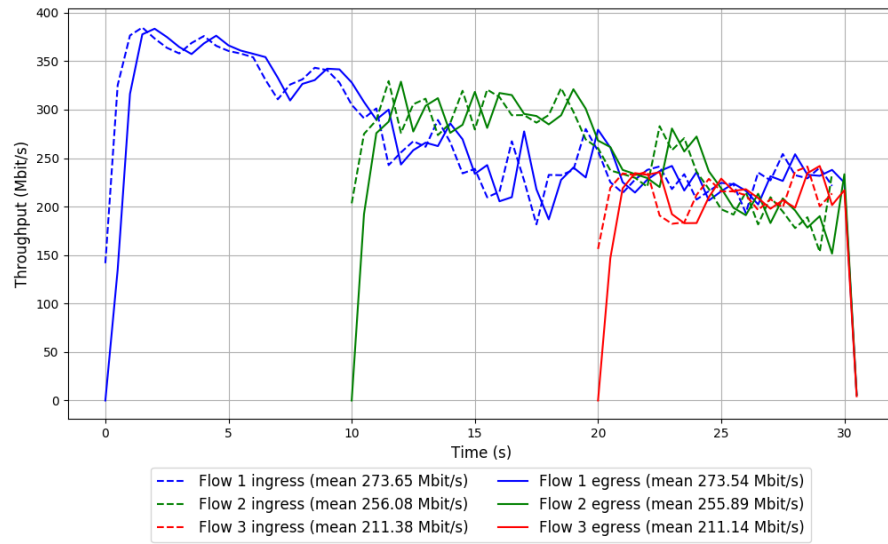
-- Flow 3:

Average throughput: 211.14 Mbit/s

95th percentile per-packet one-way delay: 24.850 ms

Loss rate: 0.07%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-08-22 06:47:51

End at: 2018-08-22 06:48:21

Local clock offset: 0.733 ms

Remote clock offset: 6.369 ms

Below is generated by plot.py at 2018-08-22 07:47:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 456.28 Mbit/s

95th percentile per-packet one-way delay: 24.272 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 243.90 Mbit/s

95th percentile per-packet one-way delay: 23.506 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 208.70 Mbit/s

95th percentile per-packet one-way delay: 24.200 ms

Loss rate: 0.30%

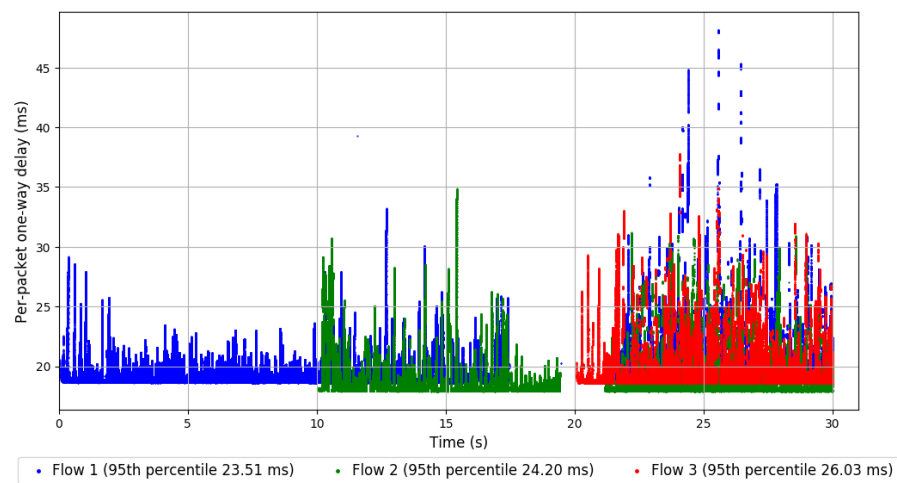
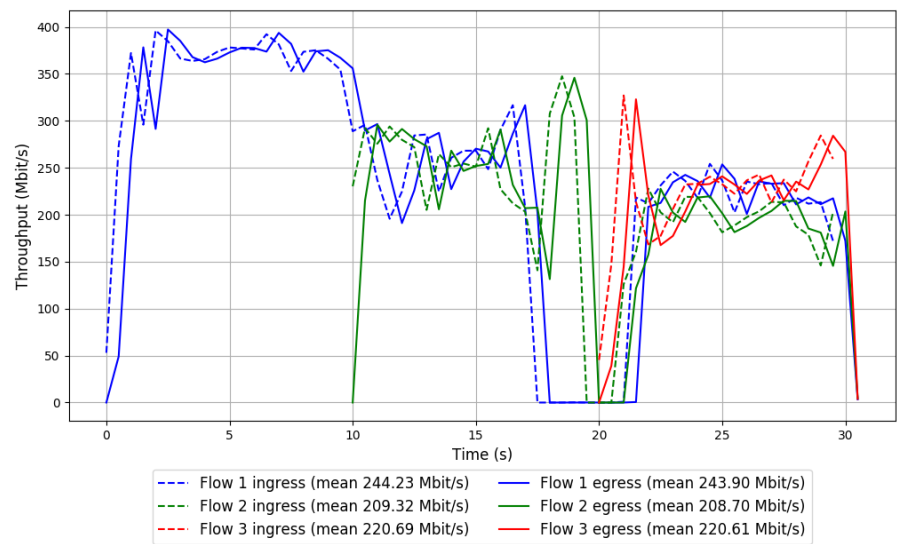
-- Flow 3:

Average throughput: 220.61 Mbit/s

95th percentile per-packet one-way delay: 26.027 ms

Loss rate: 0.04%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-08-22 02:51:17

End at: 2018-08-22 02:51:47

Local clock offset: 1.618 ms

Remote clock offset: 0.697 ms

Below is generated by plot.py at 2018-08-22 07:47:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 375.27 Mbit/s

95th percentile per-packet one-way delay: 19.136 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 175.19 Mbit/s

95th percentile per-packet one-way delay: 17.814 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 210.23 Mbit/s

95th percentile per-packet one-way delay: 18.548 ms

Loss rate: 0.08%

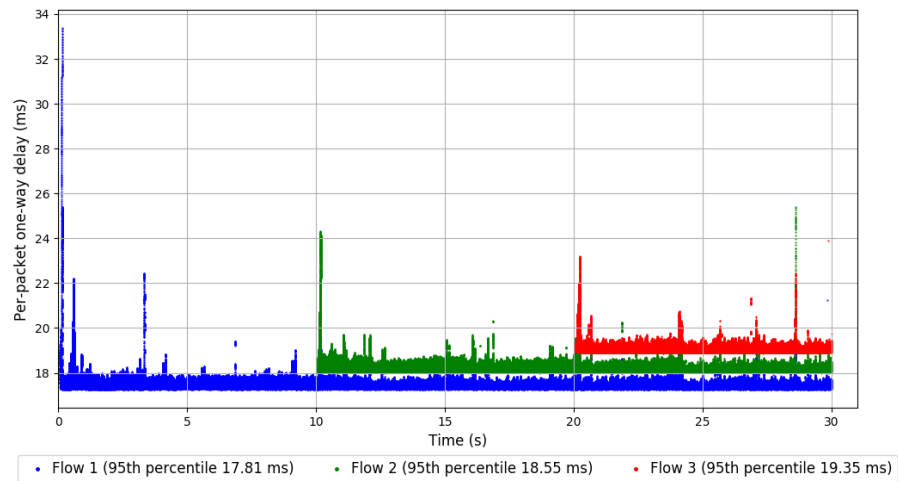
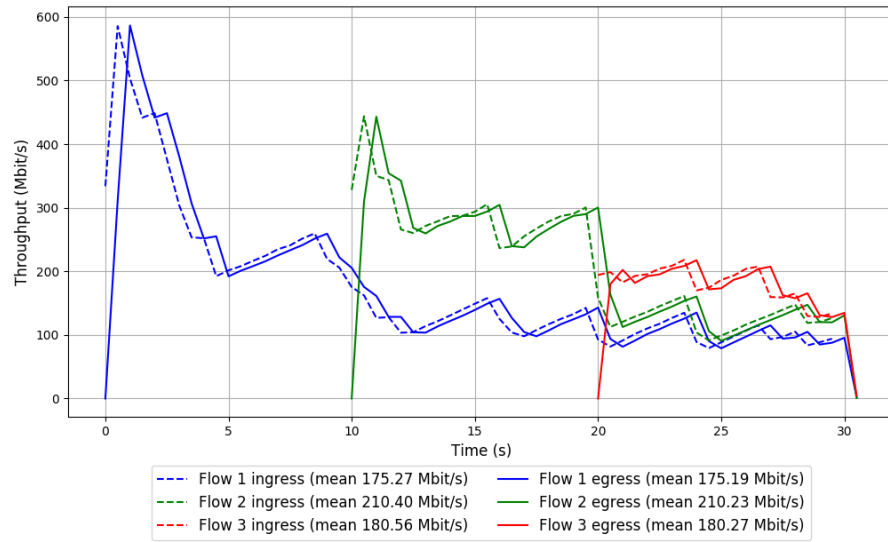
-- Flow 3:

Average throughput: 180.27 Mbit/s

95th percentile per-packet one-way delay: 19.348 ms

Loss rate: 0.15%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-08-22 03:18:44

End at: 2018-08-22 03:19:14

Local clock offset: 0.968 ms

Remote clock offset: 4.036 ms

Below is generated by plot.py at 2018-08-22 07:47:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.26 Mbit/s

95th percentile per-packet one-way delay: 19.910 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 169.25 Mbit/s

95th percentile per-packet one-way delay: 25.730 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 132.01 Mbit/s

95th percentile per-packet one-way delay: 18.460 ms

Loss rate: 0.20%

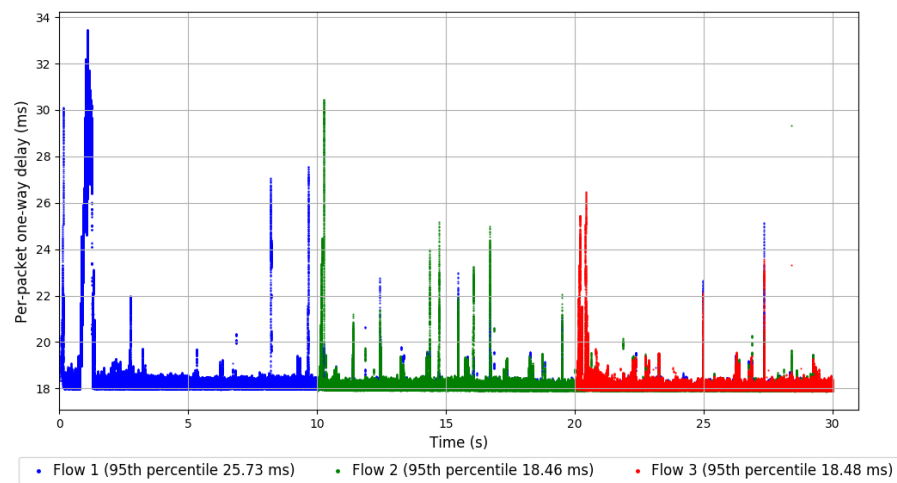
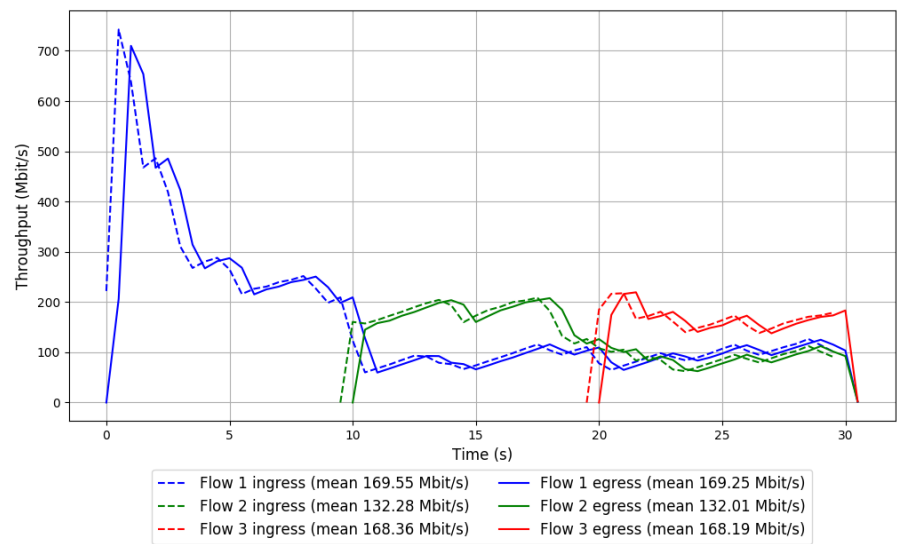
-- Flow 3:

Average throughput: 168.19 Mbit/s

95th percentile per-packet one-way delay: 18.476 ms

Loss rate: 0.10%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-08-22 03:45:58

End at: 2018-08-22 03:46:28

Local clock offset: -1.484 ms

Remote clock offset: 3.86 ms

Below is generated by plot.py at 2018-08-22 07:47:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 364.72 Mbit/s

95th percentile per-packet one-way delay: 18.296 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 225.30 Mbit/s

95th percentile per-packet one-way delay: 18.320 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 110.36 Mbit/s

95th percentile per-packet one-way delay: 17.461 ms

Loss rate: 0.04%

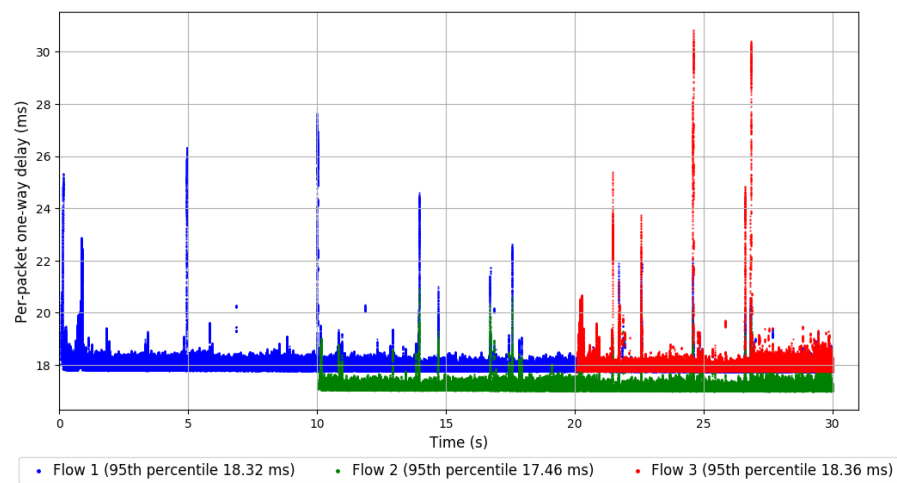
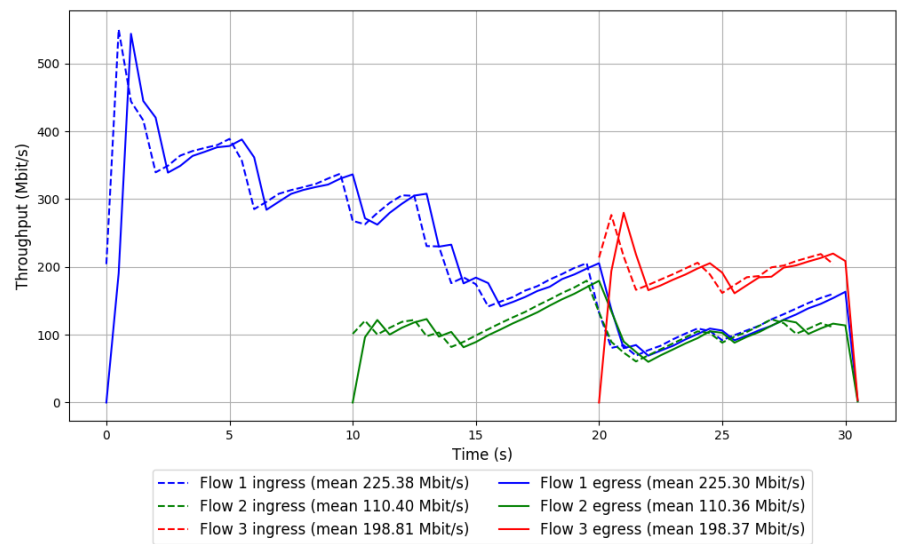
-- Flow 3:

Average throughput: 198.37 Mbit/s

95th percentile per-packet one-way delay: 18.362 ms

Loss rate: 0.22%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-08-22 04:13:22

End at: 2018-08-22 04:13:52

Local clock offset: -2.985 ms

Remote clock offset: 3.674 ms

Below is generated by plot.py at 2018-08-22 07:47:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.09 Mbit/s

95th percentile per-packet one-way delay: 19.479 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 151.64 Mbit/s

95th percentile per-packet one-way delay: 19.610 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 159.83 Mbit/s

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

Loss rate: 0.08%

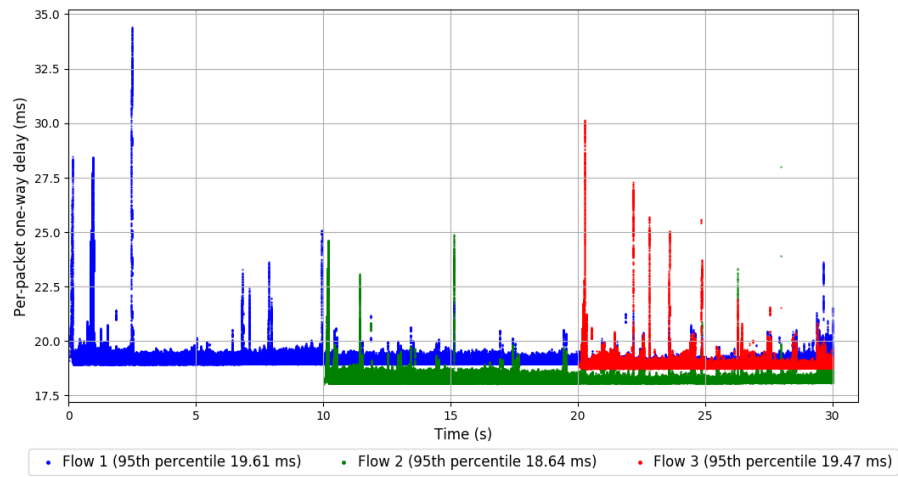
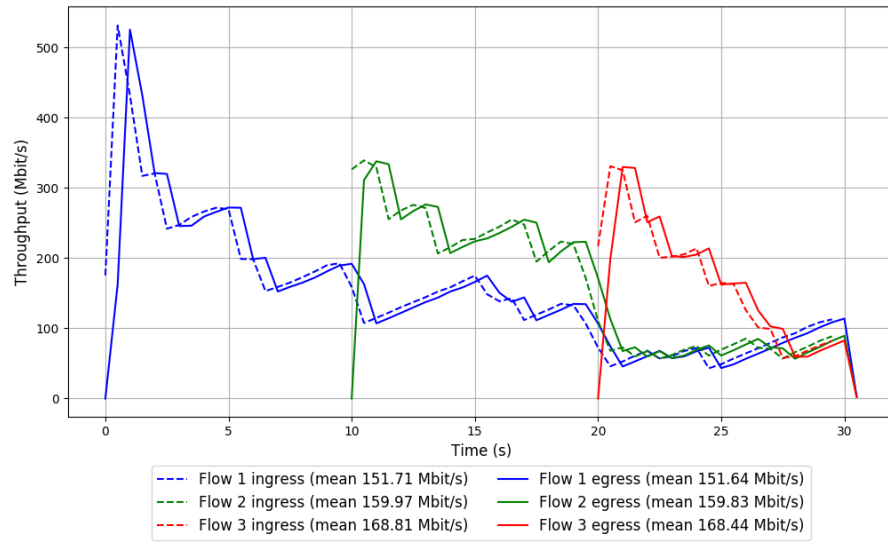
-- Flow 3:

Average throughput: 168.44 Mbit/s

95th percentile per-packet one-way delay: 19.474 ms

Loss rate: 0.21%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-08-22 04:40:28

End at: 2018-08-22 04:40:58

Local clock offset: -2.01 ms

Remote clock offset: 3.616 ms

Below is generated by plot.py at 2018-08-22 07:47:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.95 Mbit/s

95th percentile per-packet one-way delay: 19.714 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 168.95 Mbit/s

95th percentile per-packet one-way delay: 19.161 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 159.96 Mbit/s

95th percentile per-packet one-way delay: 19.241 ms

Loss rate: 0.11%

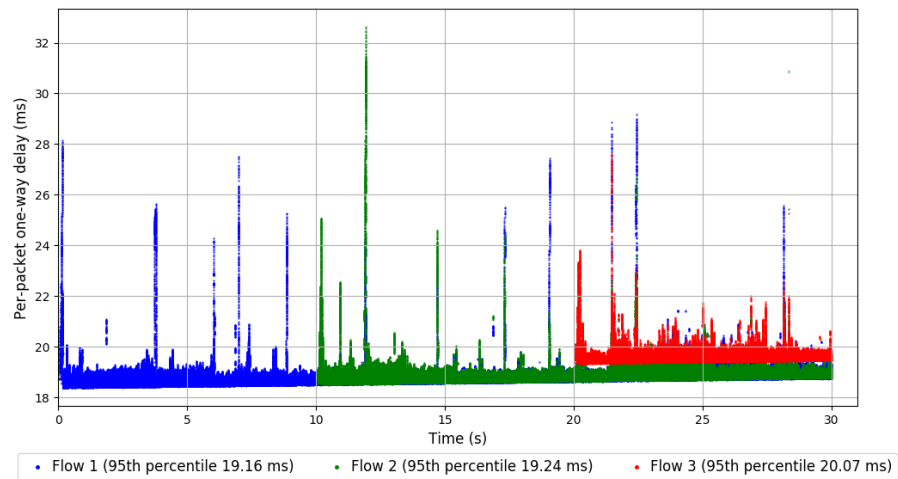
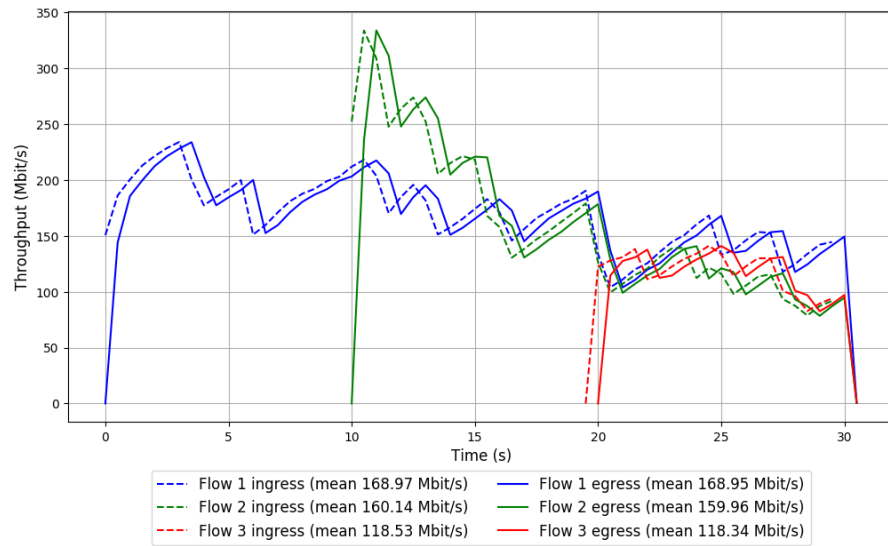
-- Flow 3:

Average throughput: 118.34 Mbit/s

95th percentile per-packet one-way delay: 20.065 ms

Loss rate: 0.16%

Run 5: Report of TCP Cubic — Data Link

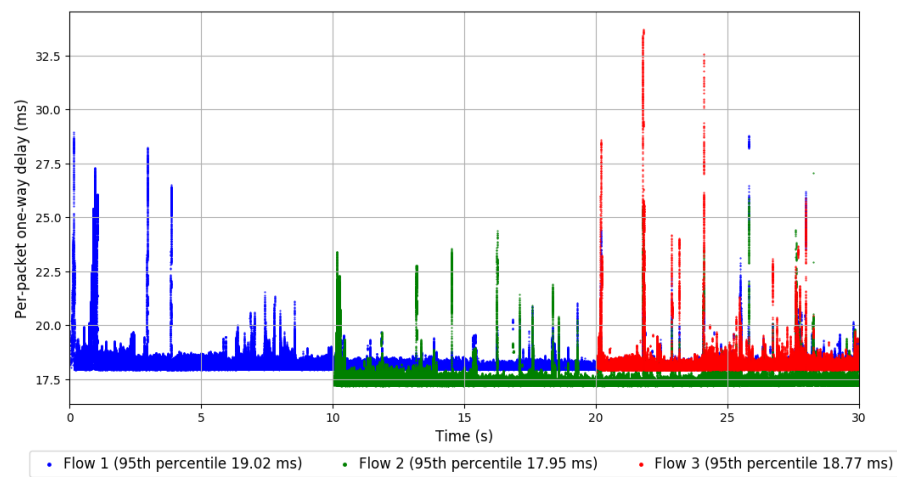
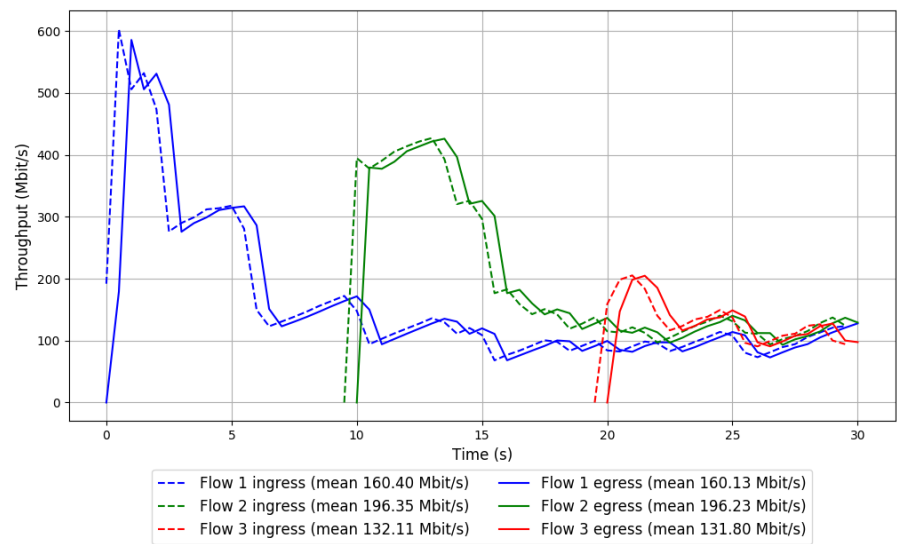


Run 6: Statistics of TCP Cubic

Start at: 2018-08-22 05:07:46
End at: 2018-08-22 05:08:16
Local clock offset: 1.301 ms
Remote clock offset: -1.406 ms

Below is generated by plot.py at 2018-08-22 07:47:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 334.78 Mbit/s
95th percentile per-packet one-way delay: 18.698 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 160.13 Mbit/s
95th percentile per-packet one-way delay: 19.018 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 196.23 Mbit/s
95th percentile per-packet one-way delay: 17.955 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 131.80 Mbit/s
95th percentile per-packet one-way delay: 18.773 ms
Loss rate: 0.24%

Run 6: Report of TCP Cubic — Data Link

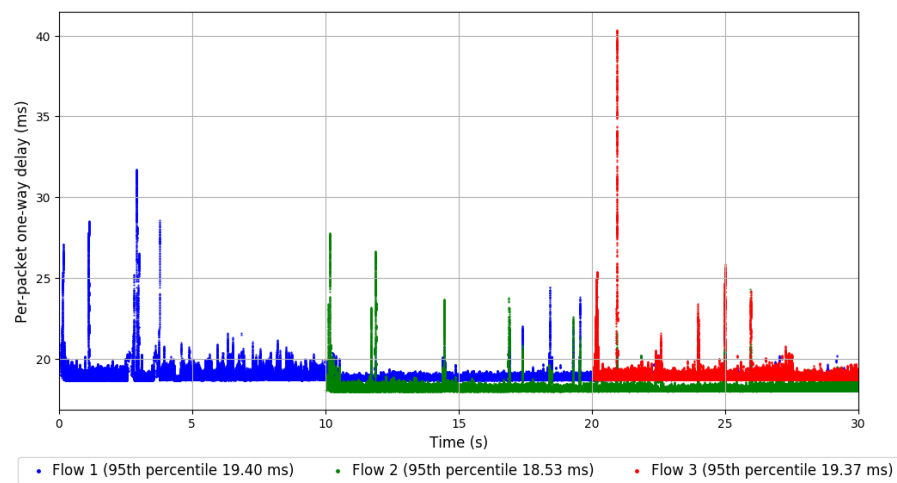
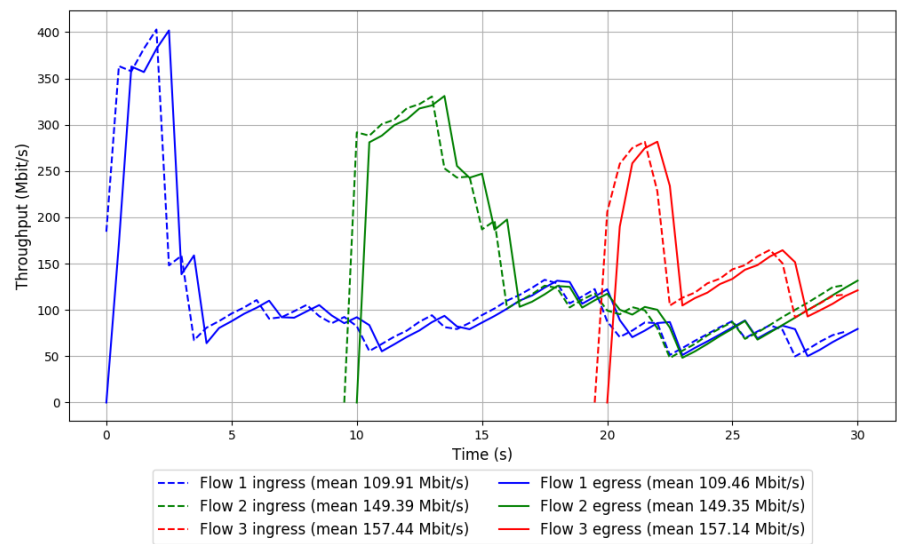


Run 7: Statistics of TCP Cubic

Start at: 2018-08-22 05:35:04
End at: 2018-08-22 05:35:34
Local clock offset: 1.097 ms
Remote clock offset: -3.099 ms

Below is generated by plot.py at 2018-08-22 07:47:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 261.31 Mbit/s
95th percentile per-packet one-way delay: 19.297 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 109.46 Mbit/s
95th percentile per-packet one-way delay: 19.400 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 149.35 Mbit/s
95th percentile per-packet one-way delay: 18.530 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 157.14 Mbit/s
95th percentile per-packet one-way delay: 19.366 ms
Loss rate: 0.19%

Run 7: Report of TCP Cubic — Data Link

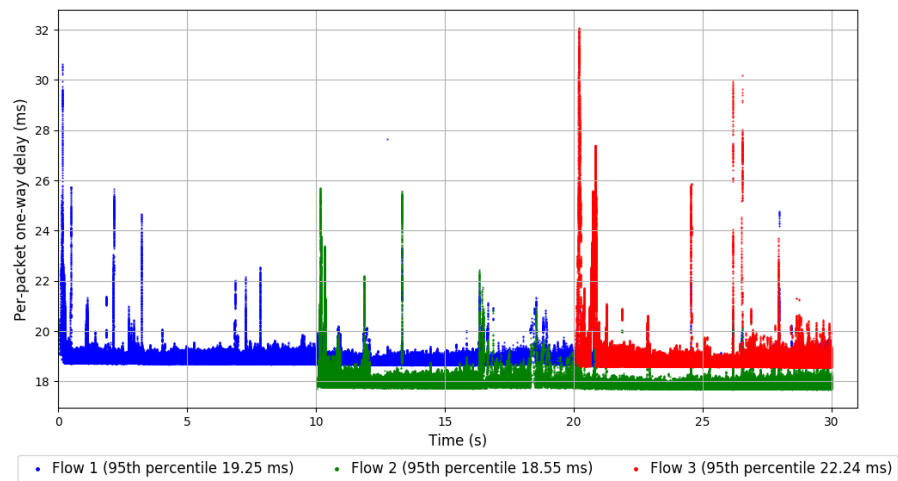
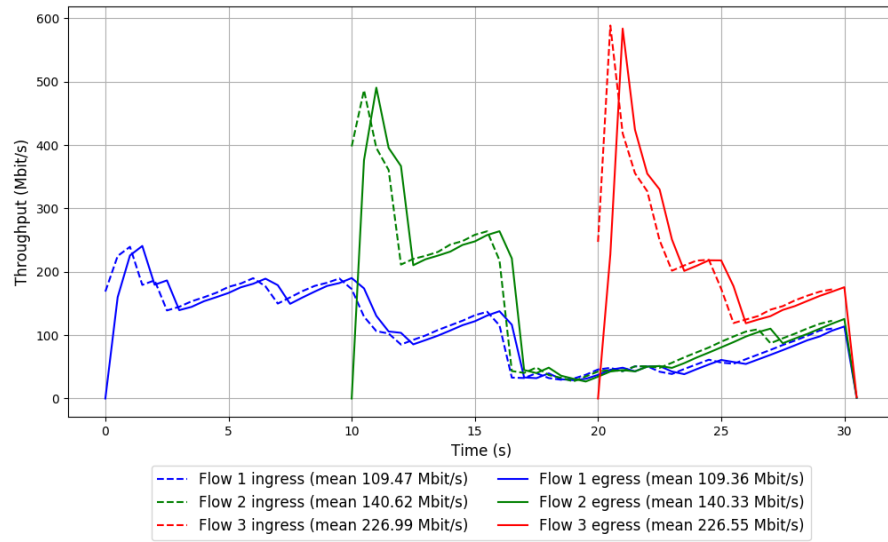


Run 8: Statistics of TCP Cubic

Start at: 2018-08-22 06:02:13
End at: 2018-08-22 06:02:43
Local clock offset: -2.896 ms
Remote clock offset: 2.171 ms

Below is generated by plot.py at 2018-08-22 07:47:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 278.14 Mbit/s
95th percentile per-packet one-way delay: 19.402 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 109.36 Mbit/s
95th percentile per-packet one-way delay: 19.246 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 140.33 Mbit/s
95th percentile per-packet one-way delay: 18.547 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 226.55 Mbit/s
95th percentile per-packet one-way delay: 22.236 ms
Loss rate: 0.20%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-08-22 06:28:58

End at: 2018-08-22 06:29:28

Local clock offset: 0.907 ms

Remote clock offset: 5.195 ms

Below is generated by plot.py at 2018-08-22 07:47:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.78 Mbit/s

95th percentile per-packet one-way delay: 20.219 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 100.49 Mbit/s

95th percentile per-packet one-way delay: 19.155 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 182.89 Mbit/s

95th percentile per-packet one-way delay: 23.376 ms

Loss rate: 0.13%

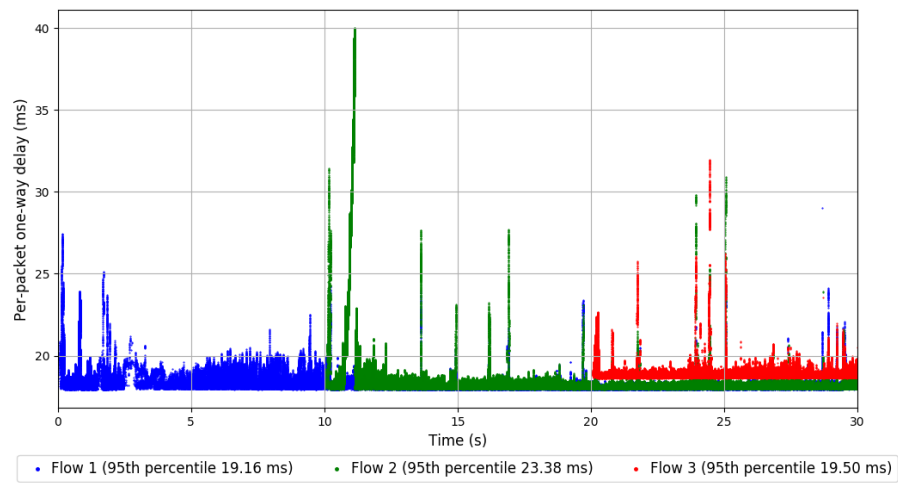
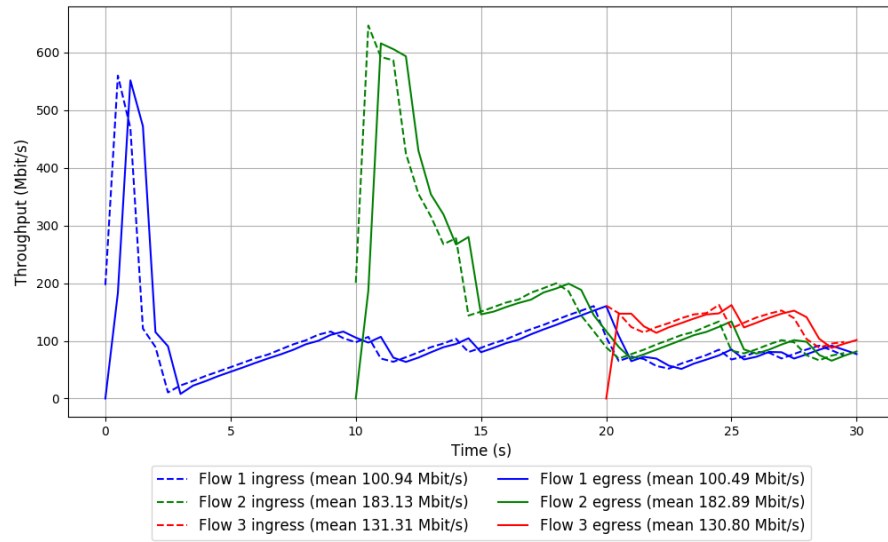
-- Flow 3:

Average throughput: 130.80 Mbit/s

95th percentile per-packet one-way delay: 19.504 ms

Loss rate: 0.39%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-08-22 06:56:01

End at: 2018-08-22 06:56:31

Local clock offset: 0.758 ms

Remote clock offset: 6.943 ms

Below is generated by plot.py at 2018-08-22 07:47:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.85 Mbit/s

95th percentile per-packet one-way delay: 19.392 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 159.75 Mbit/s

95th percentile per-packet one-way delay: 19.602 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 136.12 Mbit/s

95th percentile per-packet one-way delay: 18.897 ms

Loss rate: 0.17%

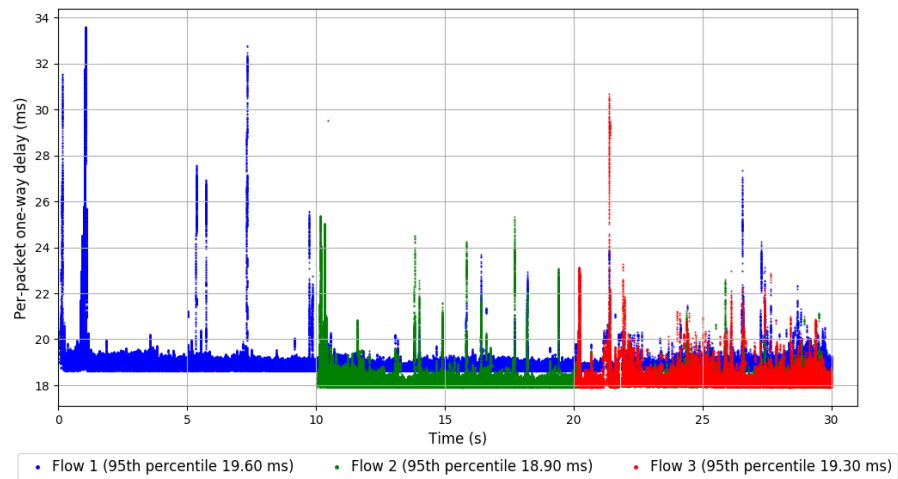
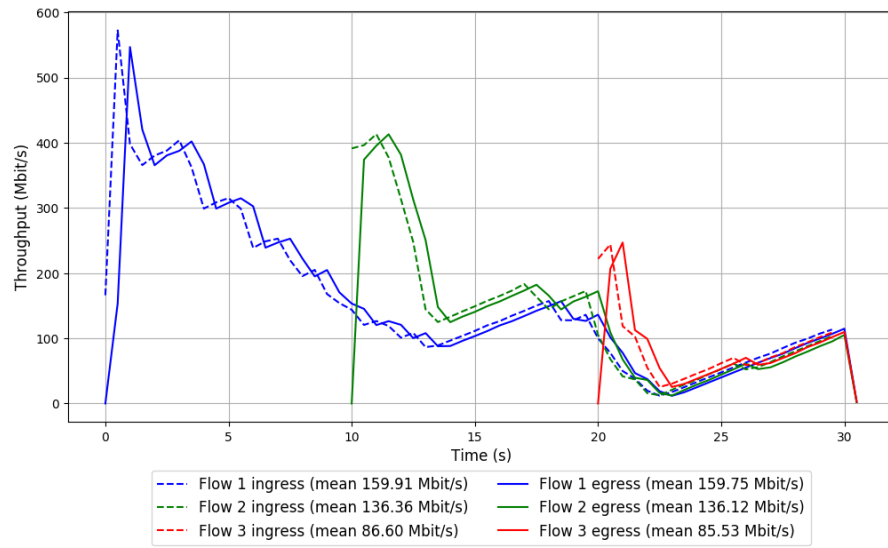
-- Flow 3:

Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 19.302 ms

Loss rate: 1.23%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-08-22 02:36:38

End at: 2018-08-22 02:37:08

Local clock offset: 1.491 ms

Remote clock offset: 0.186 ms

Below is generated by plot.py at 2018-08-22 07:57:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 876.72 Mbit/s

95th percentile per-packet one-way delay: 85.683 ms

Loss rate: 12.10%

-- Flow 1:

Average throughput: 625.55 Mbit/s

95th percentile per-packet one-way delay: 86.489 ms

Loss rate: 10.00%

-- Flow 2:

Average throughput: 224.73 Mbit/s

95th percentile per-packet one-way delay: 19.676 ms

Loss rate: 15.25%

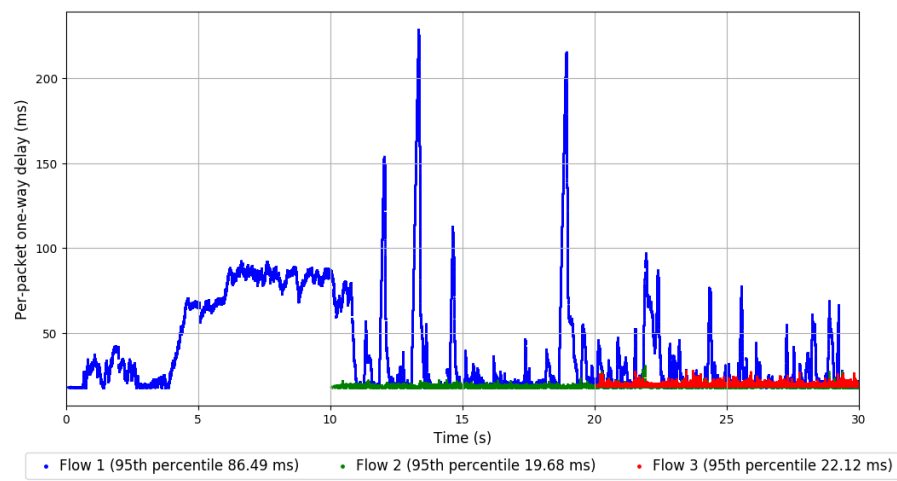
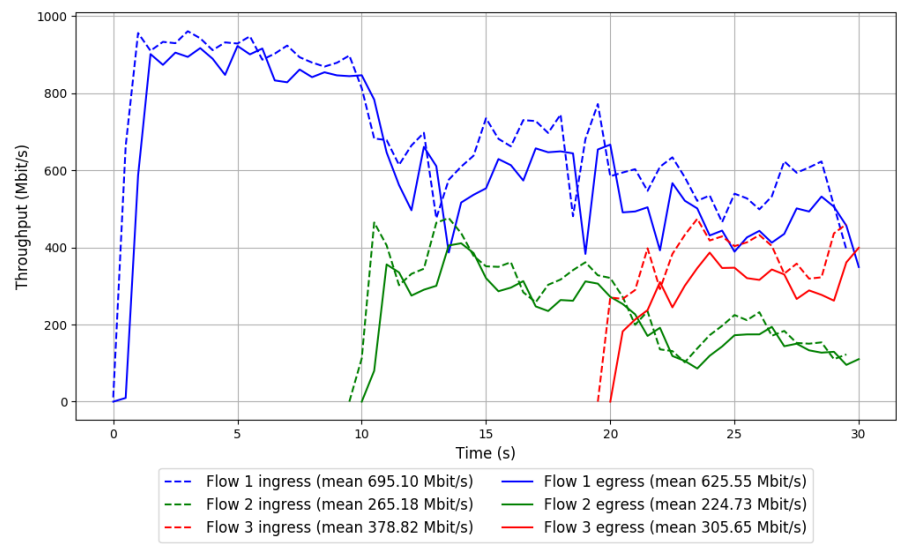
-- Flow 3:

Average throughput: 305.65 Mbit/s

95th percentile per-packet one-way delay: 22.116 ms

Loss rate: 19.31%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-08-22 03:03:58

End at: 2018-08-22 03:04:28

Local clock offset: 1.838 ms

Remote clock offset: 2.213 ms

Below is generated by plot.py at 2018-08-22 07:58:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 882.81 Mbit/s

95th percentile per-packet one-way delay: 70.064 ms

Loss rate: 12.97%

-- Flow 1:

Average throughput: 523.08 Mbit/s

95th percentile per-packet one-way delay: 79.233 ms

Loss rate: 10.08%

-- Flow 2:

Average throughput: 407.83 Mbit/s

95th percentile per-packet one-way delay: 36.623 ms

Loss rate: 16.37%

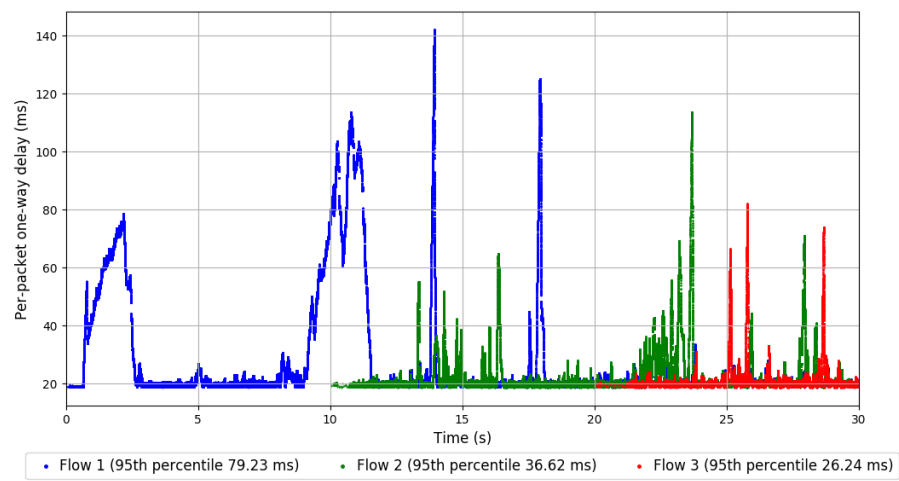
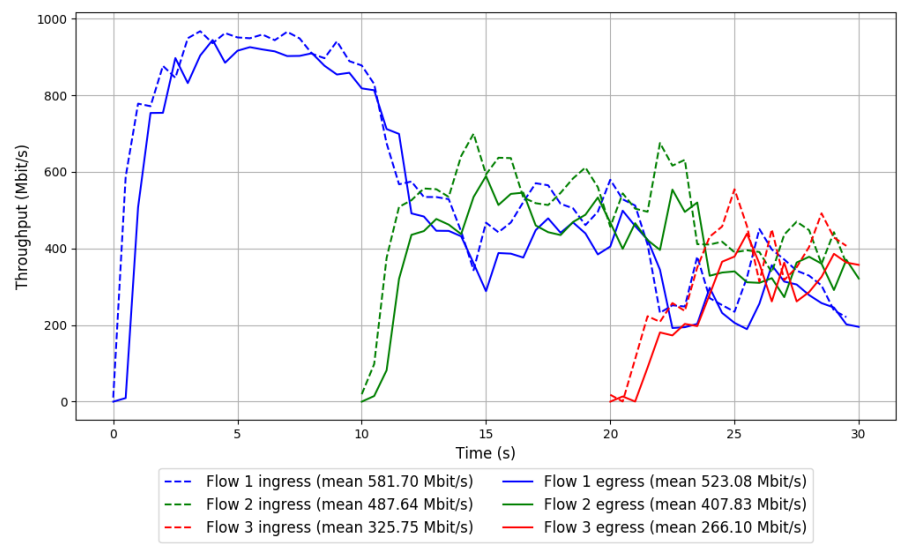
-- Flow 3:

Average throughput: 266.10 Mbit/s

95th percentile per-packet one-way delay: 26.237 ms

Loss rate: 18.32%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-08-22 03:31:18

End at: 2018-08-22 03:31:48

Local clock offset: 0.853 ms

Remote clock offset: 5.101 ms

Below is generated by plot.py at 2018-08-22 07:58:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 872.19 Mbit/s

95th percentile per-packet one-way delay: 83.692 ms

Loss rate: 12.81%

-- Flow 1:

Average throughput: 537.23 Mbit/s

95th percentile per-packet one-way delay: 86.320 ms

Loss rate: 10.36%

-- Flow 2:

Average throughput: 434.52 Mbit/s

95th percentile per-packet one-way delay: 59.523 ms

Loss rate: 16.37%

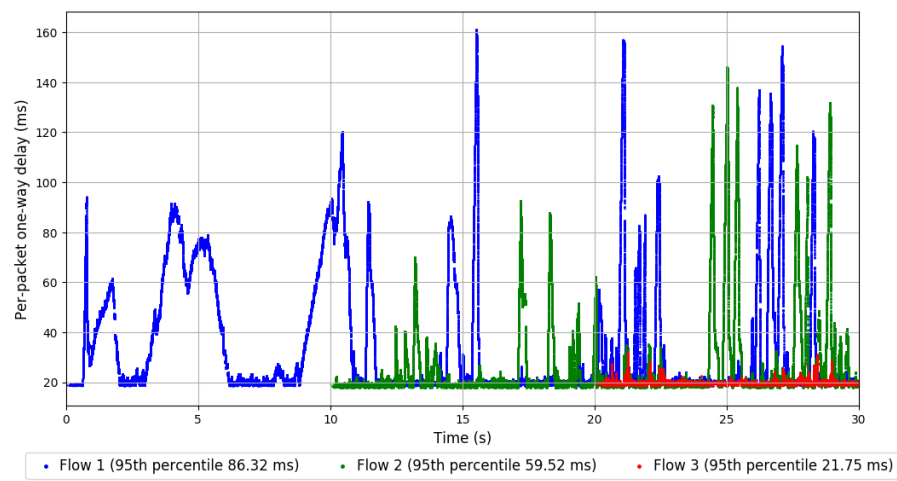
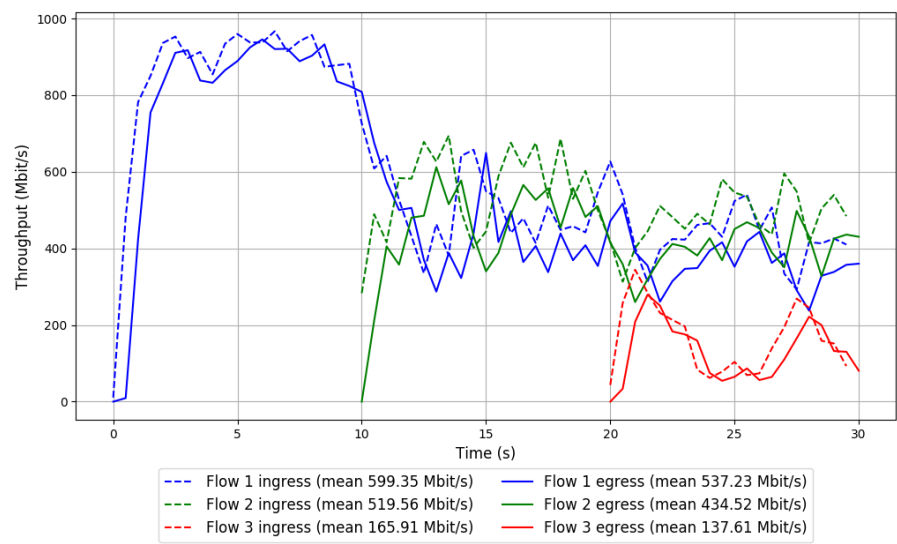
-- Flow 3:

Average throughput: 137.61 Mbit/s

95th percentile per-packet one-way delay: 21.750 ms

Loss rate: 17.04%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-08-22 03:58:38

End at: 2018-08-22 03:59:08

Local clock offset: -2.855 ms

Remote clock offset: 4.104 ms

Below is generated by plot.py at 2018-08-22 07:59:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 869.43 Mbit/s

95th percentile per-packet one-way delay: 84.911 ms

Loss rate: 13.08%

-- Flow 1:

Average throughput: 540.72 Mbit/s

95th percentile per-packet one-way delay: 87.093 ms

Loss rate: 11.14%

-- Flow 2:

Average throughput: 305.99 Mbit/s

95th percentile per-packet one-way delay: 21.052 ms

Loss rate: 14.51%

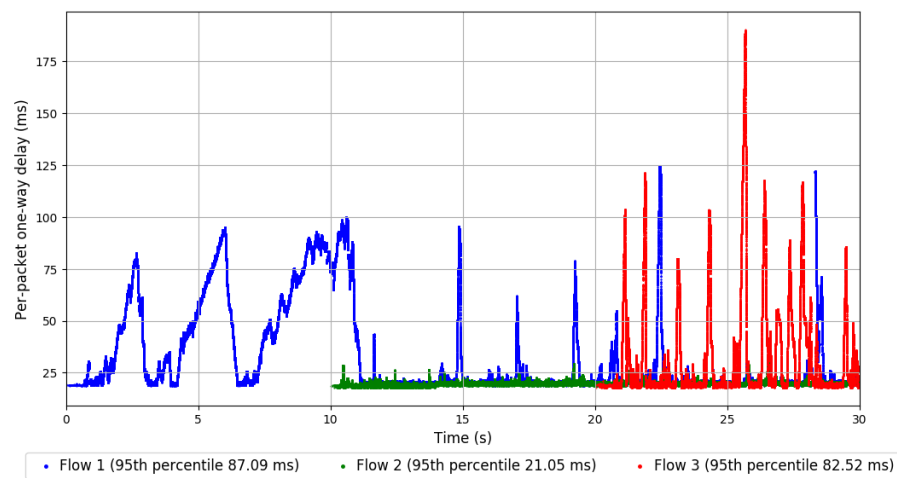
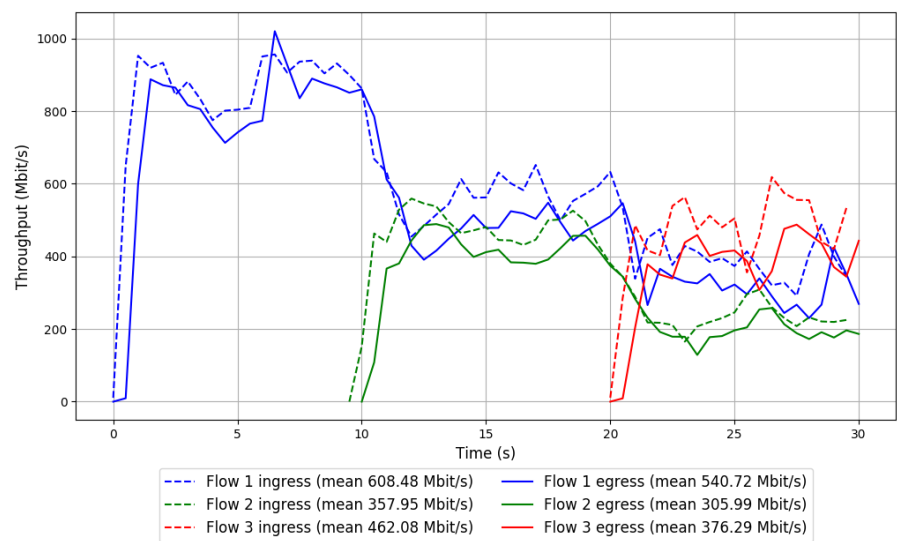
-- Flow 3:

Average throughput: 376.29 Mbit/s

95th percentile per-packet one-way delay: 82.523 ms

Loss rate: 18.57%

Run 4: Report of FillP — Data Link

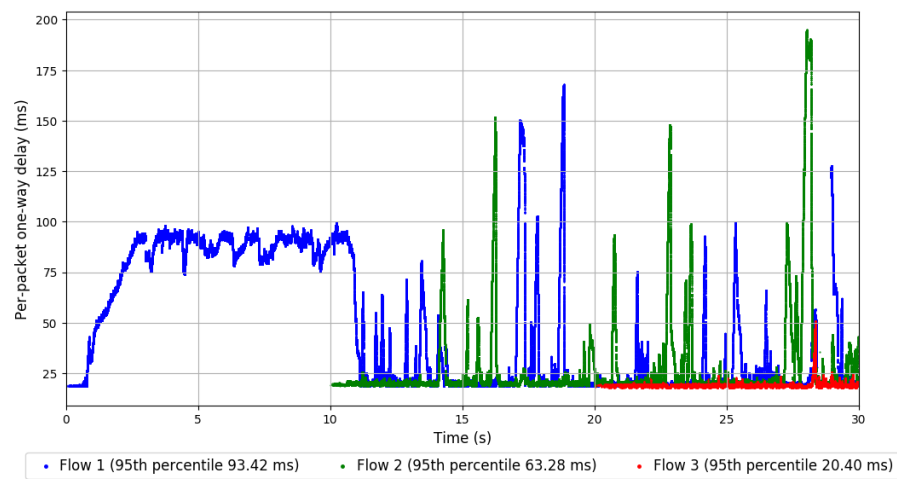
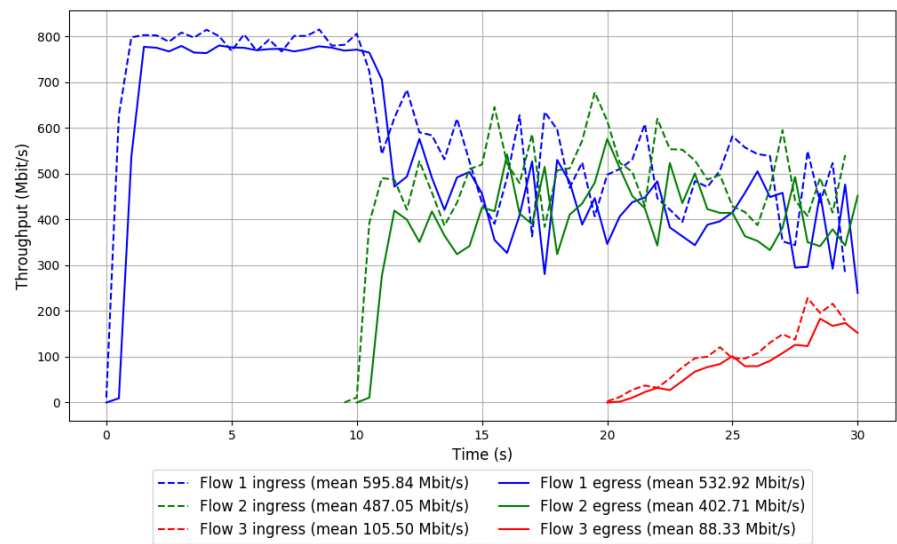


Run 5: Statistics of FillP

Start at: 2018-08-22 04:25:54
End at: 2018-08-22 04:26:24
Local clock offset: -2.989 ms
Remote clock offset: 3.386 ms

Below is generated by plot.py at 2018-08-22 07:59:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 830.54 Mbit/s
95th percentile per-packet one-way delay: 92.896 ms
Loss rate: 13.06%
-- Flow 1:
Average throughput: 532.92 Mbit/s
95th percentile per-packet one-way delay: 93.424 ms
Loss rate: 10.56%
-- Flow 2:
Average throughput: 402.71 Mbit/s
95th percentile per-packet one-way delay: 63.283 ms
Loss rate: 17.31%
-- Flow 3:
Average throughput: 88.33 Mbit/s
95th percentile per-packet one-way delay: 20.403 ms
Loss rate: 16.27%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-08-22 04:53:10

End at: 2018-08-22 04:53:40

Local clock offset: 0.458 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-08-22 08:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 834.03 Mbit/s

95th percentile per-packet one-way delay: 93.876 ms

Loss rate: 11.73%

-- Flow 1:

Average throughput: 540.06 Mbit/s

95th percentile per-packet one-way delay: 94.531 ms

Loss rate: 9.38%

-- Flow 2:

Average throughput: 254.84 Mbit/s

95th percentile per-packet one-way delay: 22.575 ms

Loss rate: 14.30%

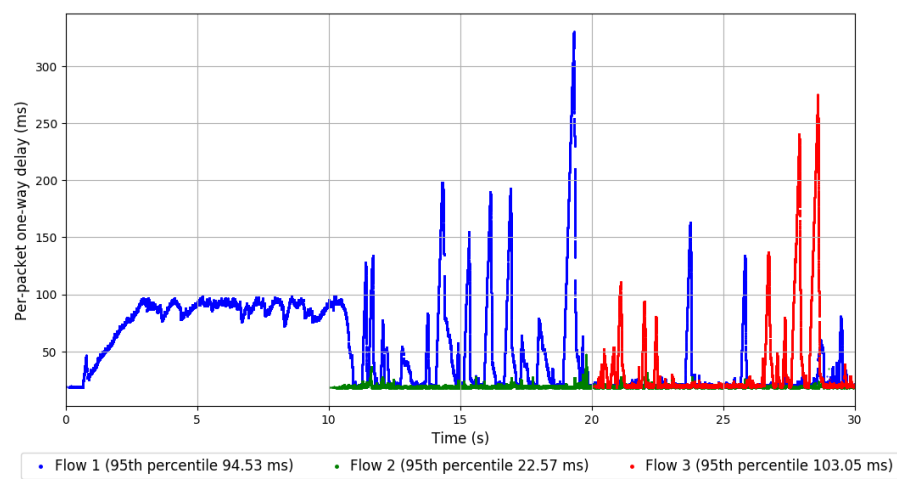
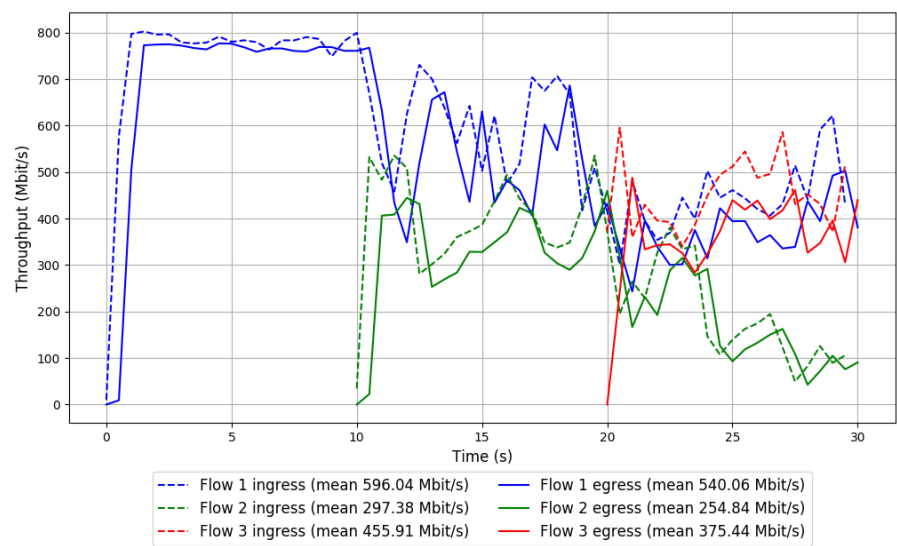
-- Flow 3:

Average throughput: 375.44 Mbit/s

95th percentile per-packet one-way delay: 103.048 ms

Loss rate: 17.63%

Run 6: Report of FillP — Data Link

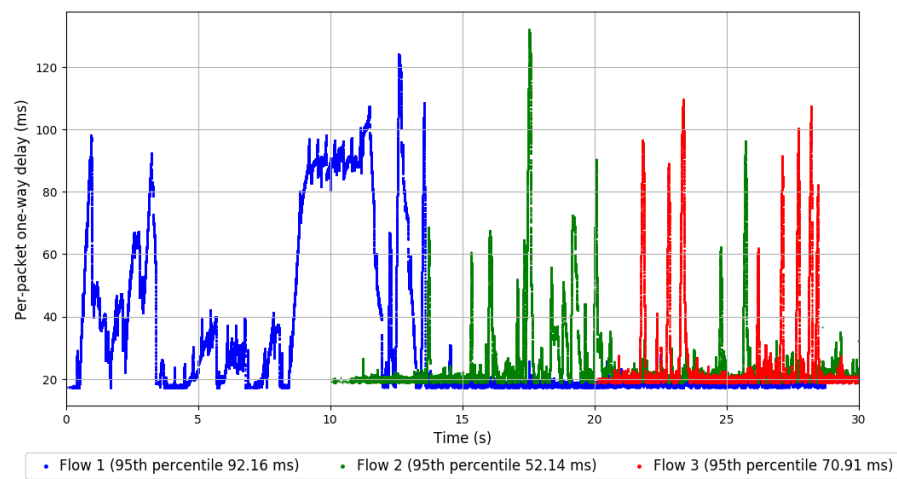
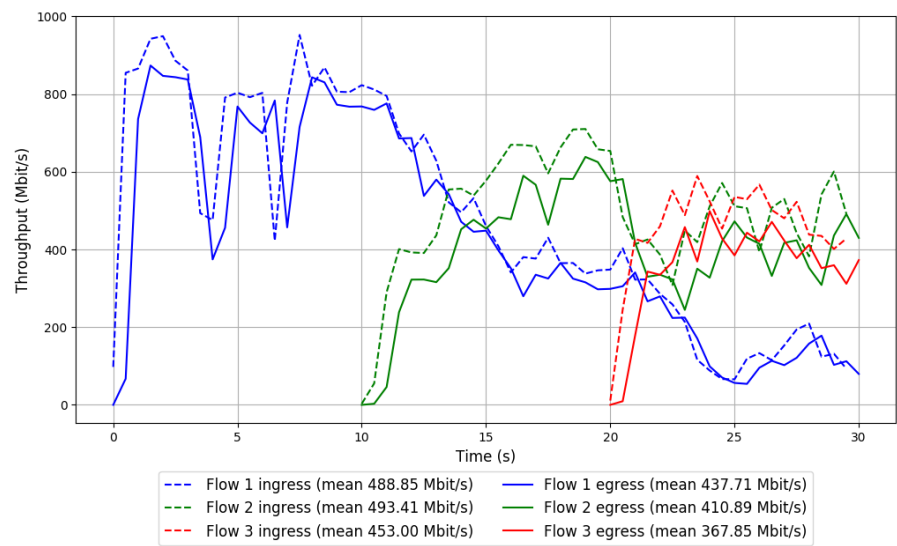


Run 7: Statistics of FillP

Start at: 2018-08-22 05:20:27
End at: 2018-08-22 05:20:57
Local clock offset: 0.99 ms
Remote clock offset: -2.252 ms

Below is generated by plot.py at 2018-08-22 08:00:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 833.04 Mbit/s
95th percentile per-packet one-way delay: 89.826 ms
Loss rate: 13.86%
-- Flow 1:
Average throughput: 437.71 Mbit/s
95th percentile per-packet one-way delay: 92.160 ms
Loss rate: 10.45%
-- Flow 2:
Average throughput: 410.89 Mbit/s
95th percentile per-packet one-way delay: 52.139 ms
Loss rate: 16.67%
-- Flow 3:
Average throughput: 367.85 Mbit/s
95th percentile per-packet one-way delay: 70.912 ms
Loss rate: 18.78%

Run 7: Report of FillP — Data Link

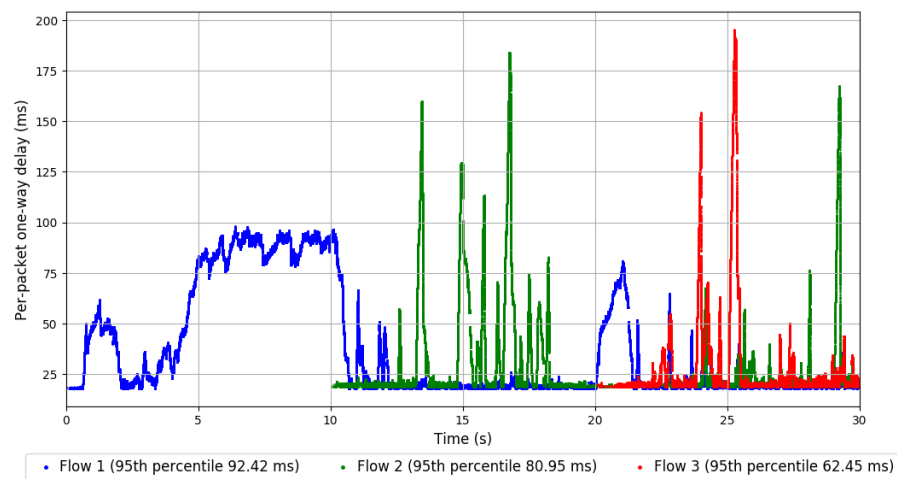
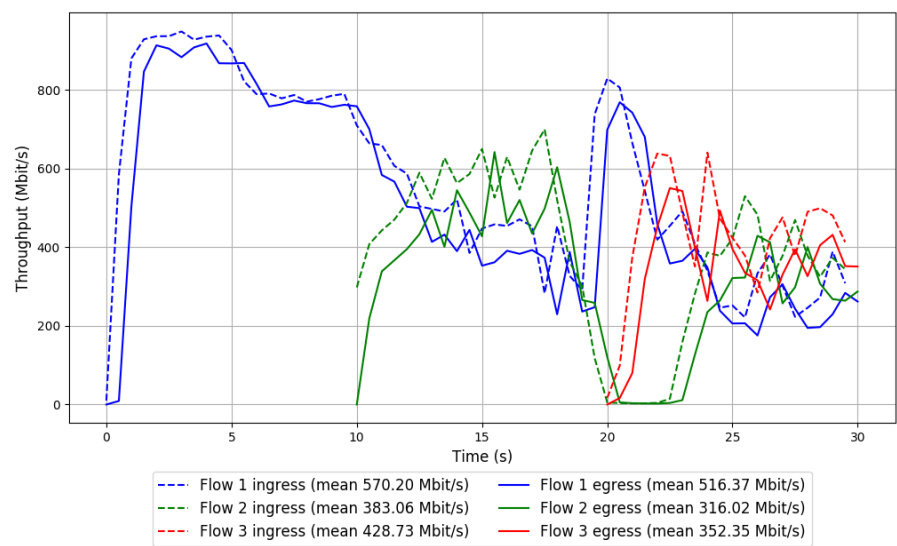


Run 8: Statistics of FillP

Start at: 2018-08-22 05:47:37
End at: 2018-08-22 05:48:07
Local clock offset: -1.612 ms
Remote clock offset: -3.849 ms

Below is generated by plot.py at 2018-08-22 08:00:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 843.49 Mbit/s
95th percentile per-packet one-way delay: 92.126 ms
Loss rate: 12.79%
-- Flow 1:
Average throughput: 516.37 Mbit/s
95th percentile per-packet one-way delay: 92.424 ms
Loss rate: 9.44%
-- Flow 2:
Average throughput: 316.02 Mbit/s
95th percentile per-packet one-way delay: 80.949 ms
Loss rate: 17.49%
-- Flow 3:
Average throughput: 352.35 Mbit/s
95th percentile per-packet one-way delay: 62.453 ms
Loss rate: 17.81%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-08-22 06:14:39

End at: 2018-08-22 06:15:09

Local clock offset: -0.811 ms

Remote clock offset: 4.104 ms

Below is generated by plot.py at 2018-08-22 08:10:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 847.81 Mbit/s

95th percentile per-packet one-way delay: 91.506 ms

Loss rate: 13.78%

-- Flow 1:

Average throughput: 486.11 Mbit/s

95th percentile per-packet one-way delay: 91.893 ms

Loss rate: 10.43%

-- Flow 2:

Average throughput: 390.39 Mbit/s

95th percentile per-packet one-way delay: 72.437 ms

Loss rate: 17.40%

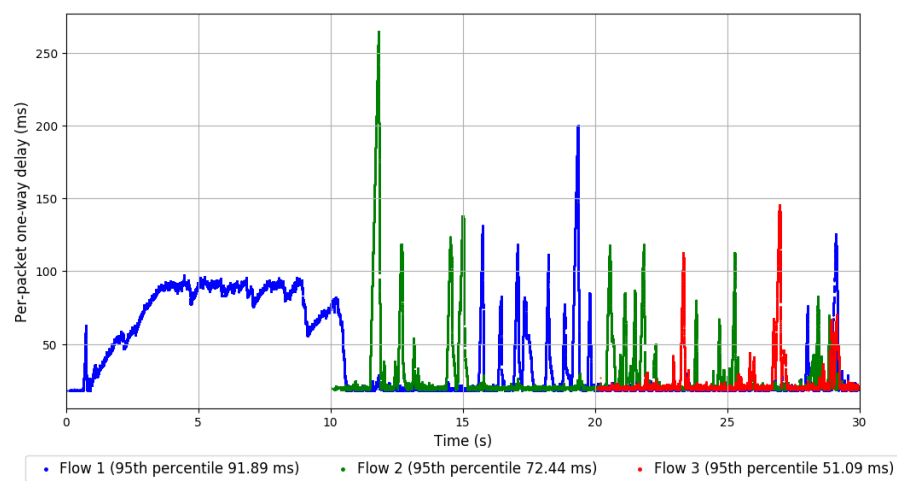
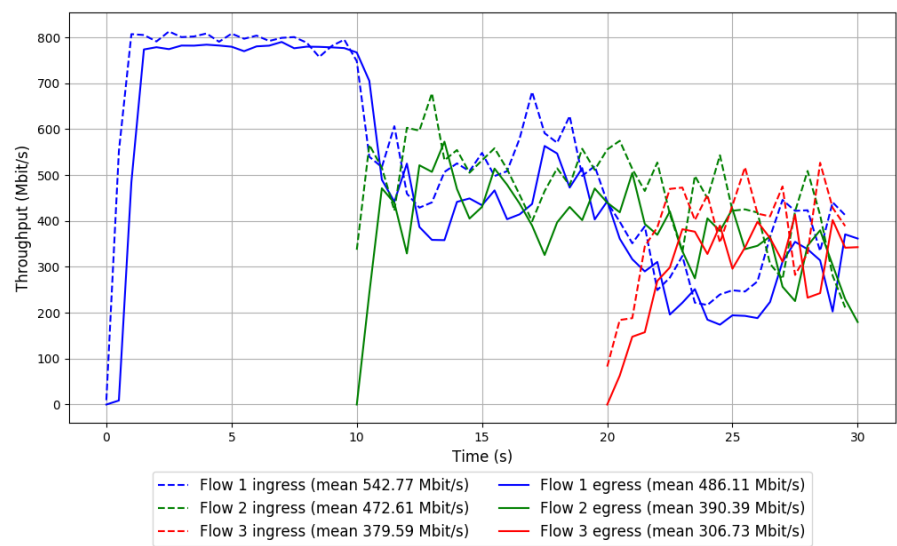
-- Flow 3:

Average throughput: 306.73 Mbit/s

95th percentile per-packet one-way delay: 51.094 ms

Loss rate: 19.19%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-08-22 06:41:27

End at: 2018-08-22 06:41:57

Local clock offset: 0.952 ms

Remote clock offset: 6.062 ms

Below is generated by plot.py at 2018-08-22 08:10:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 870.74 Mbit/s

95th percentile per-packet one-way delay: 76.912 ms

Loss rate: 12.54%

-- Flow 1:

Average throughput: 471.24 Mbit/s

95th percentile per-packet one-way delay: 78.284 ms

Loss rate: 9.53%

-- Flow 2:

Average throughput: 415.47 Mbit/s

95th percentile per-packet one-way delay: 72.448 ms

Loss rate: 15.64%

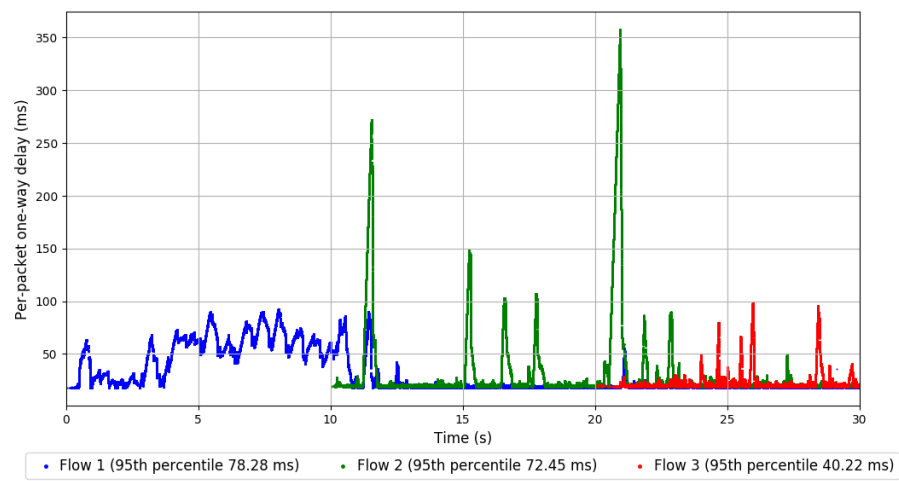
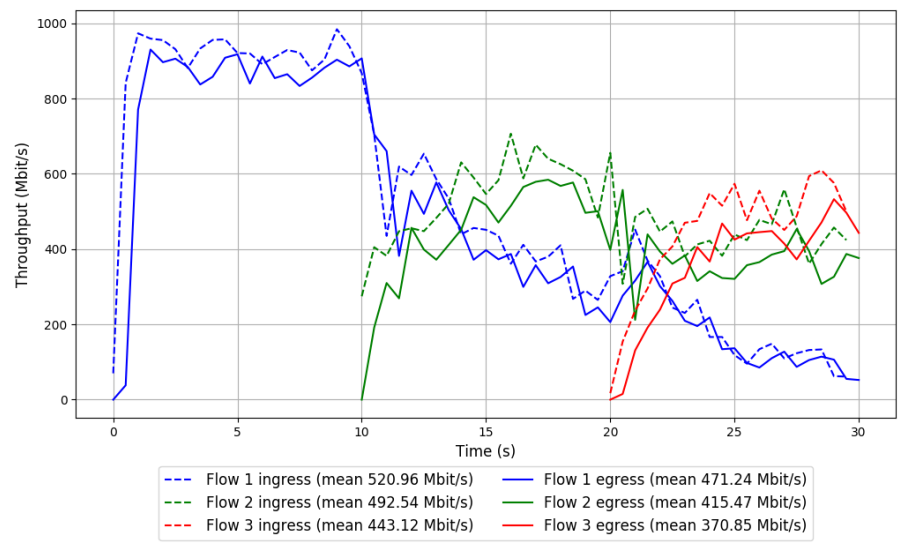
-- Flow 3:

Average throughput: 370.85 Mbit/s

95th percentile per-packet one-way delay: 40.218 ms

Loss rate: 16.30%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-08-22 02:46:12

End at: 2018-08-22 02:46:42

Local clock offset: 1.454 ms

Remote clock offset: 0.45 ms

Below is generated by plot.py at 2018-08-22 08:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 904.59 Mbit/s

95th percentile per-packet one-way delay: 40.253 ms

Loss rate: 18.96%

-- Flow 1:

Average throughput: 549.94 Mbit/s

95th percentile per-packet one-way delay: 40.879 ms

Loss rate: 15.04%

-- Flow 2:

Average throughput: 374.93 Mbit/s

95th percentile per-packet one-way delay: 37.059 ms

Loss rate: 24.22%

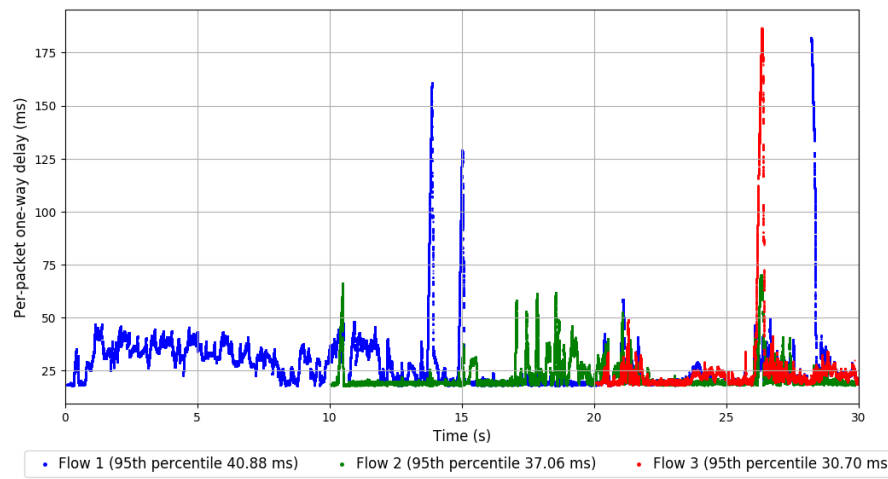
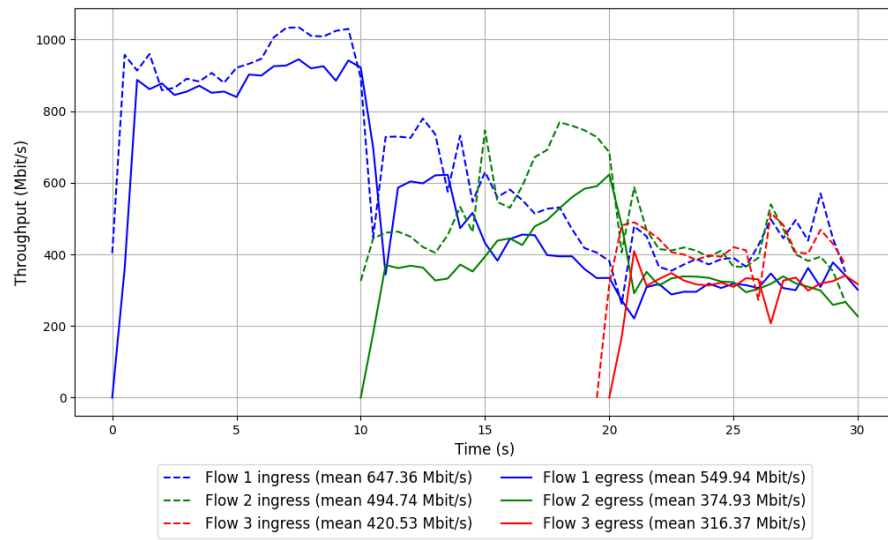
-- Flow 3:

Average throughput: 316.37 Mbit/s

95th percentile per-packet one-way delay: 30.702 ms

Loss rate: 24.76%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-08-22 03:13:38

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

Local clock offset: 1.338 ms

Remote clock offset: 3.572 ms

Below is generated by plot.py at 2018-08-22 08:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 885.95 Mbit/s

95th percentile per-packet one-way delay: 43.256 ms

Loss rate: 19.25%

-- Flow 1:

Average throughput: 610.72 Mbit/s

95th percentile per-packet one-way delay: 46.308 ms

Loss rate: 16.55%

-- Flow 2:

Average throughput: 353.79 Mbit/s

95th percentile per-packet one-way delay: 22.757 ms

Loss rate: 23.45%

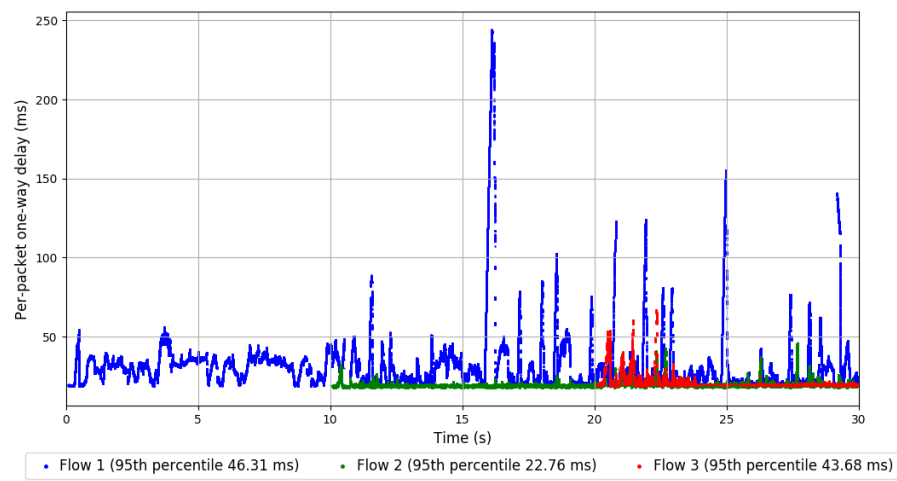
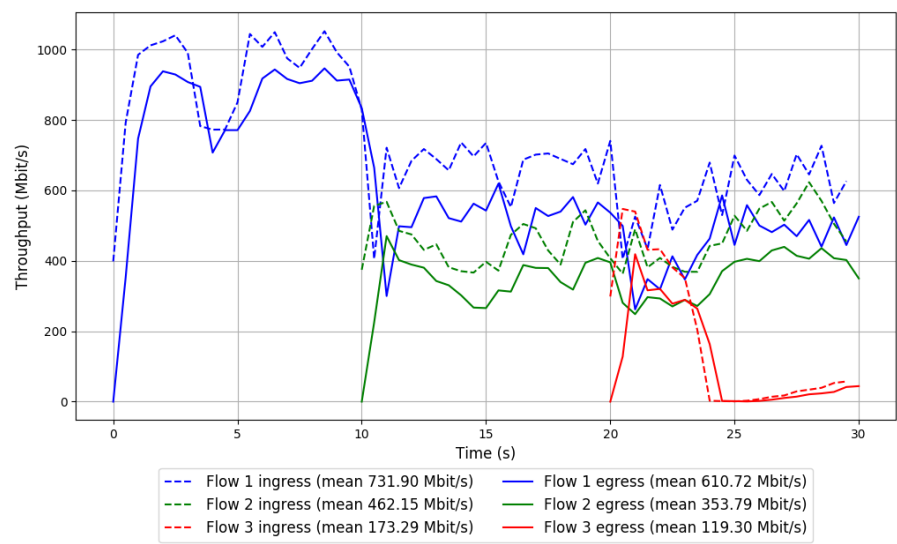
-- Flow 3:

Average throughput: 119.30 Mbit/s

95th percentile per-packet one-way delay: 43.679 ms

Loss rate: 31.15%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-08-22 03:40:52

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

Local clock offset: -0.32 ms

Remote clock offset: 4.115 ms

Below is generated by plot.py at 2018-08-22 08:13:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 900.71 Mbit/s

95th percentile per-packet one-way delay: 39.152 ms

Loss rate: 19.30%

-- Flow 1:

Average throughput: 486.81 Mbit/s

95th percentile per-packet one-way delay: 38.719 ms

Loss rate: 14.63%

-- Flow 2:

Average throughput: 416.12 Mbit/s

95th percentile per-packet one-way delay: 41.236 ms

Loss rate: 22.60%

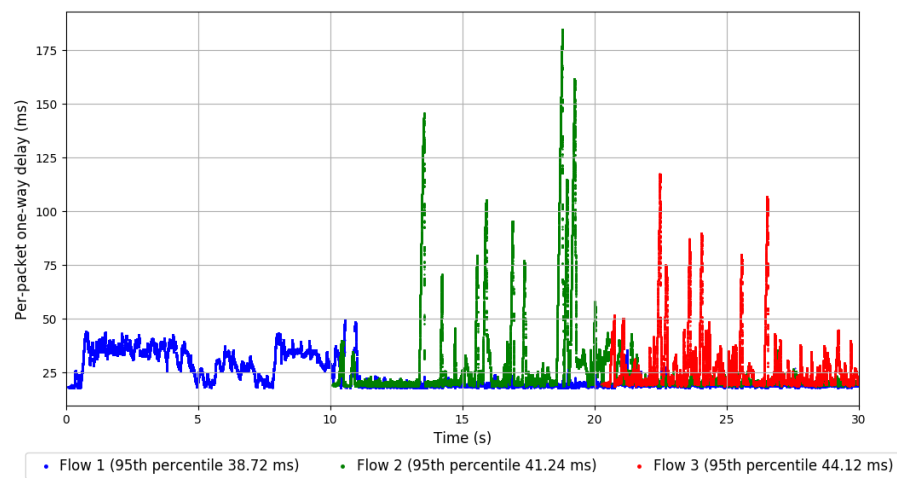
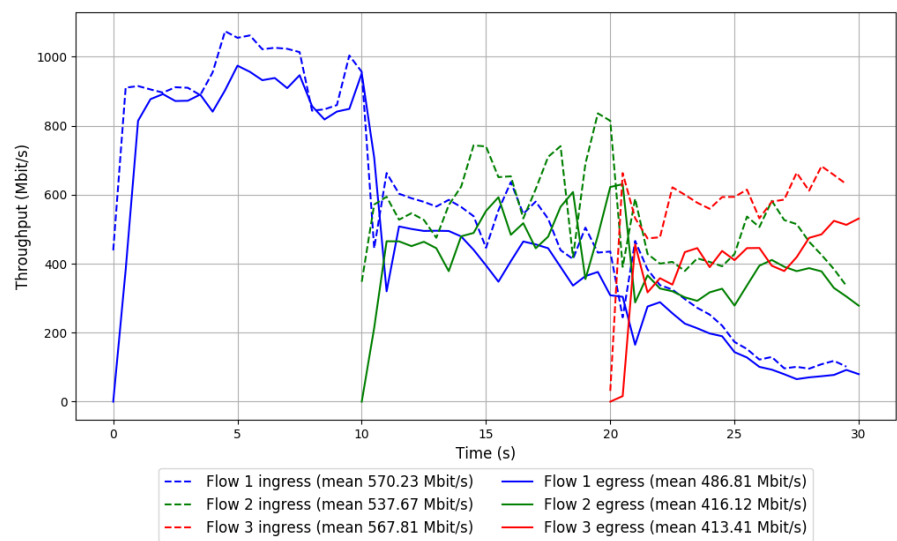
-- Flow 3:

Average throughput: 413.41 Mbit/s

95th percentile per-packet one-way delay: 44.116 ms

Loss rate: 27.18%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-08-22 04:08:19

End at: 2018-08-22 04:08:49

Local clock offset: -3.292 ms

Remote clock offset: 3.993 ms

Below is generated by plot.py at 2018-08-22 08:13:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 880.22 Mbit/s

95th percentile per-packet one-way delay: 43.833 ms

Loss rate: 21.18%

-- Flow 1:

Average throughput: 518.22 Mbit/s

95th percentile per-packet one-way delay: 43.357 ms

Loss rate: 16.22%

-- Flow 2:

Average throughput: 425.95 Mbit/s

95th percentile per-packet one-way delay: 43.997 ms

Loss rate: 26.87%

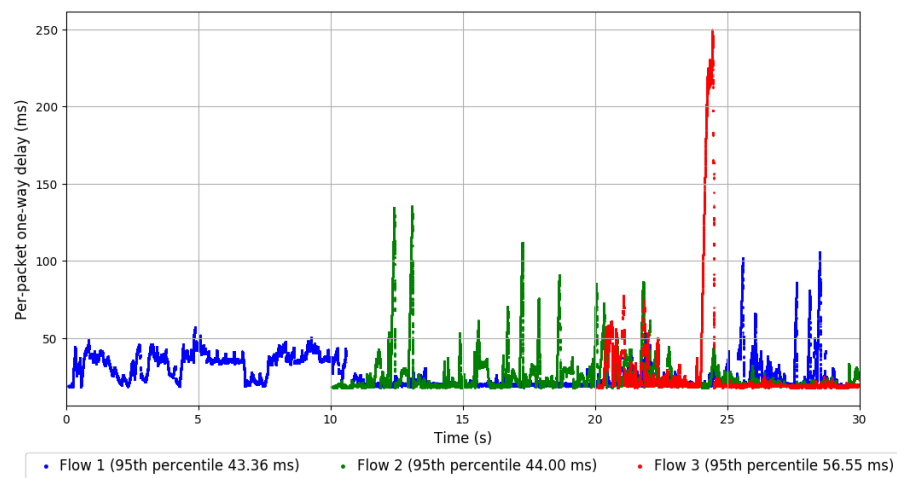
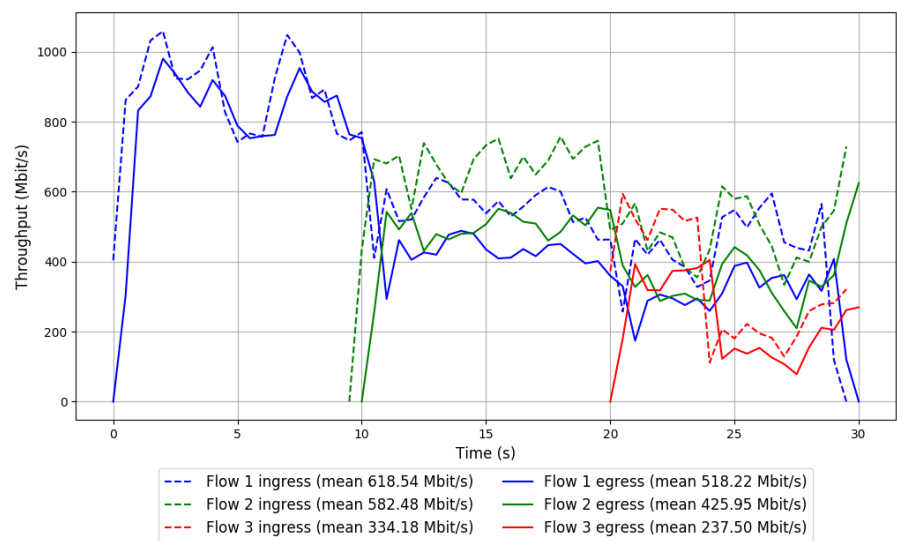
-- Flow 3:

Average throughput: 237.50 Mbit/s

95th percentile per-packet one-way delay: 56.548 ms

Loss rate: 28.90%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-08-22 04:35:29

End at: 2018-08-22 04:35:59

Local clock offset: -3.065 ms

Remote clock offset: 3.431 ms

Below is generated by plot.py at 2018-08-22 08:13:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 869.34 Mbit/s

95th percentile per-packet one-way delay: 38.107 ms

Loss rate: 16.50%

-- Flow 1:

Average throughput: 517.00 Mbit/s

95th percentile per-packet one-way delay: 39.751 ms

Loss rate: 14.02%

-- Flow 2:

Average throughput: 366.96 Mbit/s

95th percentile per-packet one-way delay: 22.238 ms

Loss rate: 19.31%

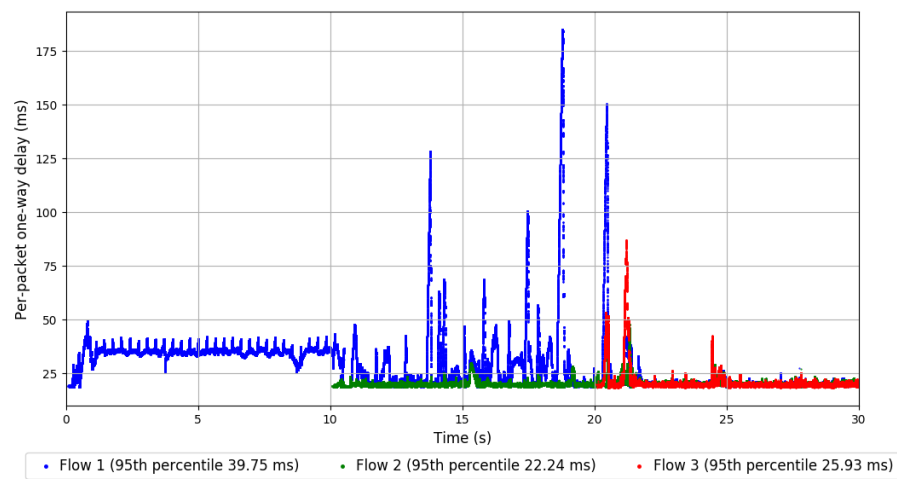
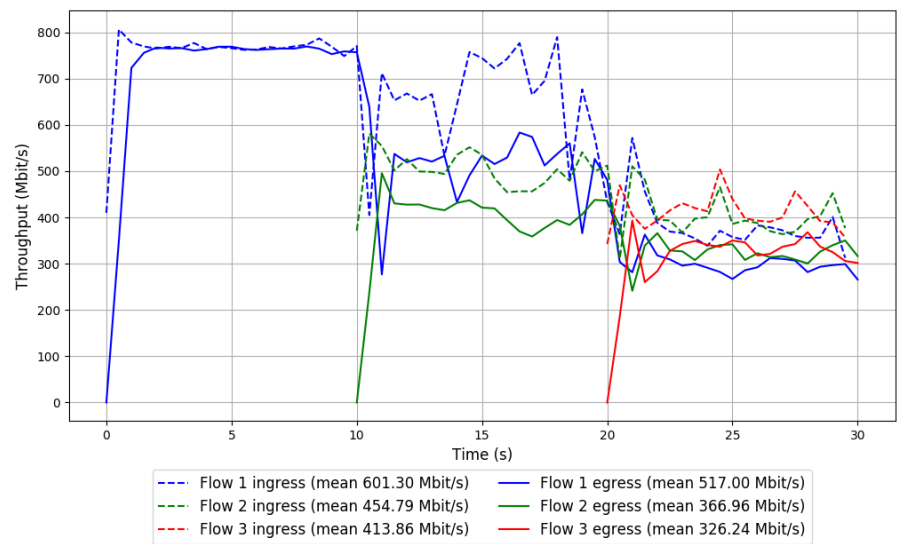
-- Flow 3:

Average throughput: 326.24 Mbit/s

95th percentile per-packet one-way delay: 25.935 ms

Loss rate: 21.17%

Run 5: Report of FillP-Sheep — Data Link

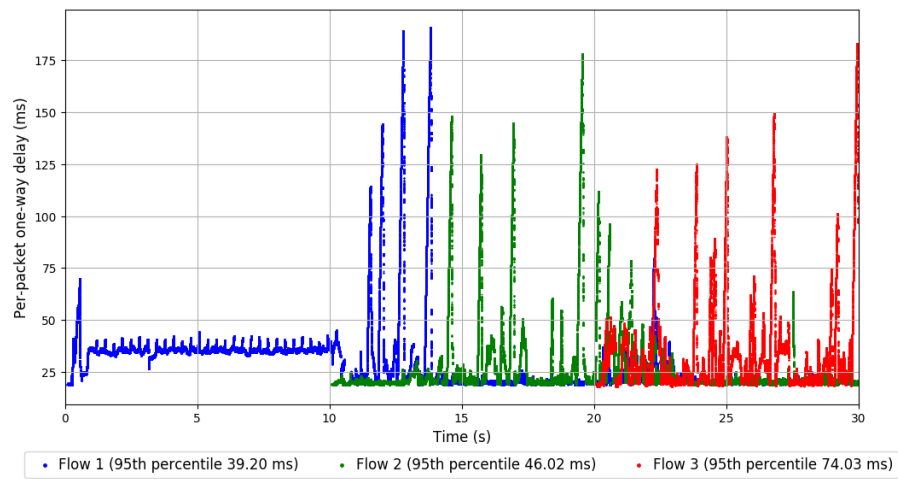
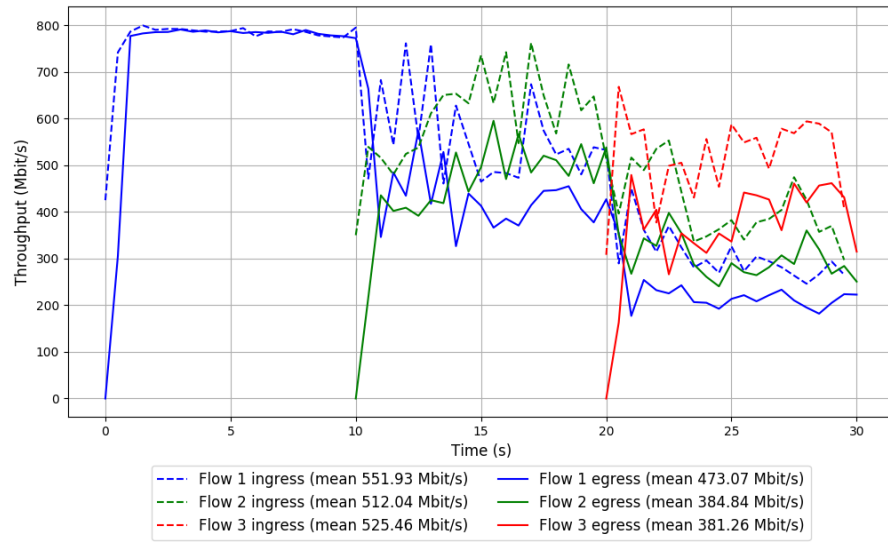


Run 6: Statistics of FillP-Sheep

Start at: 2018-08-22 05:02:46
End at: 2018-08-22 05:03:16
Local clock offset: 1.053 ms
Remote clock offset: -1.035 ms

Below is generated by plot.py at 2018-08-22 08:14:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 855.69 Mbit/s
95th percentile per-packet one-way delay: 42.893 ms
Loss rate: 19.80%
-- Flow 1:
Average throughput: 473.07 Mbit/s
95th percentile per-packet one-way delay: 39.200 ms
Loss rate: 14.28%
-- Flow 2:
Average throughput: 384.84 Mbit/s
95th percentile per-packet one-way delay: 46.019 ms
Loss rate: 24.84%
-- Flow 3:
Average throughput: 381.26 Mbit/s
95th percentile per-packet one-way delay: 74.026 ms
Loss rate: 27.43%

Run 6: Report of FillP-Sheep — Data Link

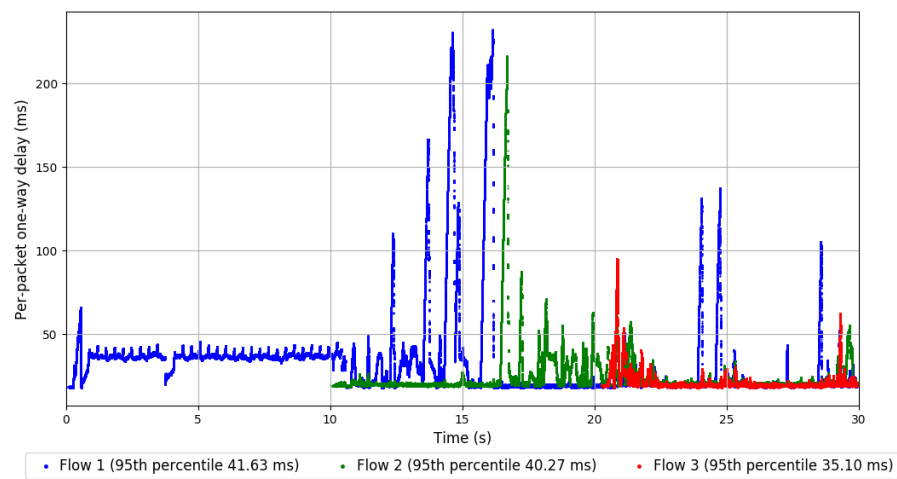
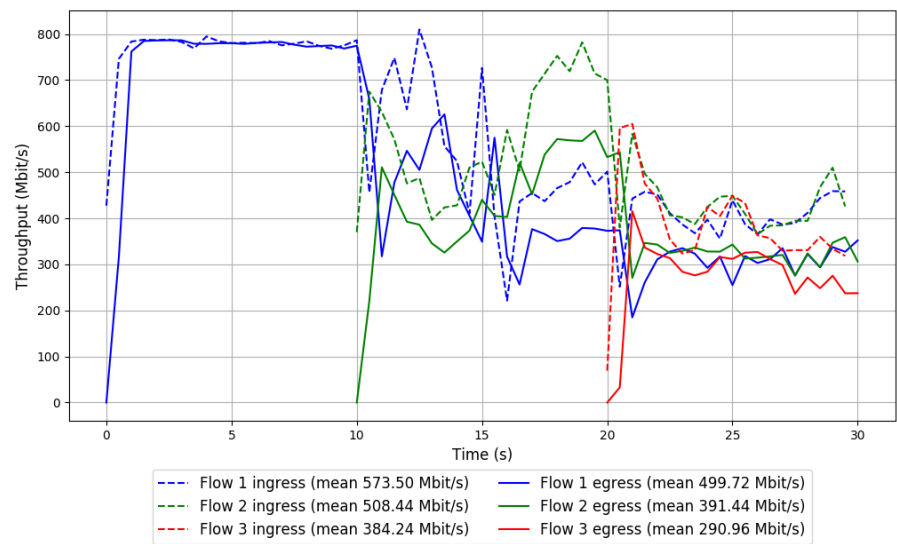


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-22 05:30:05
End at: 2018-08-22 05:30:35
Local clock offset: 0.937 ms
Remote clock offset: -2.832 ms

Below is generated by plot.py at 2018-08-22 08:24:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 854.82 Mbit/s
95th percentile per-packet one-way delay: 41.144 ms
Loss rate: 17.75%
-- Flow 1:
Average throughput: 499.72 Mbit/s
95th percentile per-packet one-way delay: 41.628 ms
Loss rate: 12.86%
-- Flow 2:
Average throughput: 391.44 Mbit/s
95th percentile per-packet one-way delay: 40.269 ms
Loss rate: 23.01%
-- Flow 3:
Average throughput: 290.96 Mbit/s
95th percentile per-packet one-way delay: 35.102 ms
Loss rate: 25.82%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-22 05:57:14

End at: 2018-08-22 05:57:44

Local clock offset: -2.617 ms

Remote clock offset: 0.829 ms

Below is generated by plot.py at 2018-08-22 08:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 868.34 Mbit/s

95th percentile per-packet one-way delay: 39.056 ms

Loss rate: 19.88%

-- Flow 1:

Average throughput: 506.03 Mbit/s

95th percentile per-packet one-way delay: 38.653 ms

Loss rate: 14.52%

-- Flow 2:

Average throughput: 379.16 Mbit/s

95th percentile per-packet one-way delay: 36.903 ms

Loss rate: 25.16%

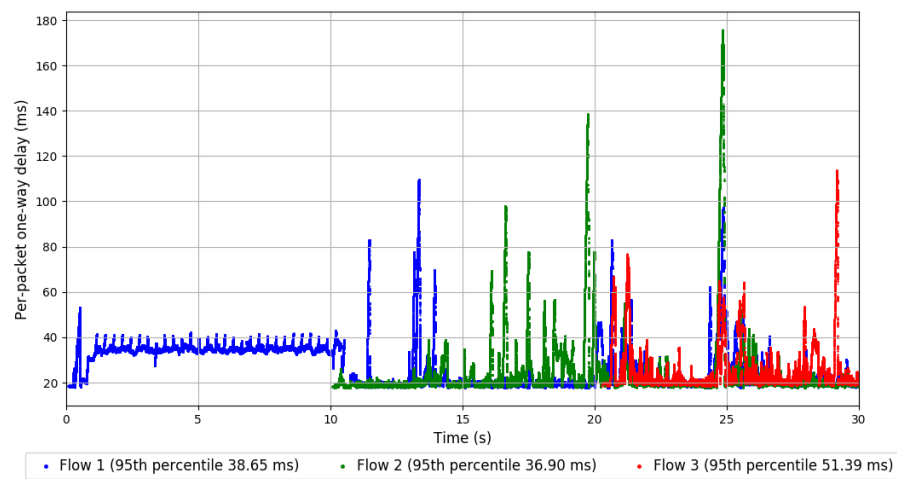
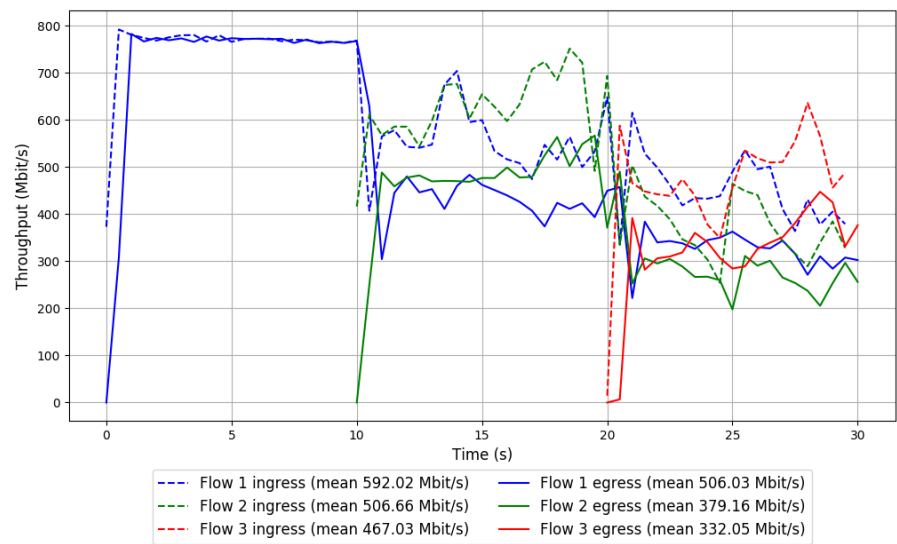
-- Flow 3:

Average throughput: 332.05 Mbit/s

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

Loss rate: 28.90%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-22 06:24:13

End at: 2018-08-22 06:24:43

Local clock offset: 0.542 ms

Remote clock offset: 4.792 ms

Below is generated by plot.py at 2018-08-22 08:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 550.03 Mbit/s

95th percentile per-packet one-way delay: 39.086 ms

Loss rate: 3.77%

-- Flow 1:

Average throughput: 288.35 Mbit/s

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

Loss rate: 4.65%

-- Flow 2:

Average throughput: 22.63 Mbit/s

95th percentile per-packet one-way delay: 41.615 ms

Loss rate: 27.88%

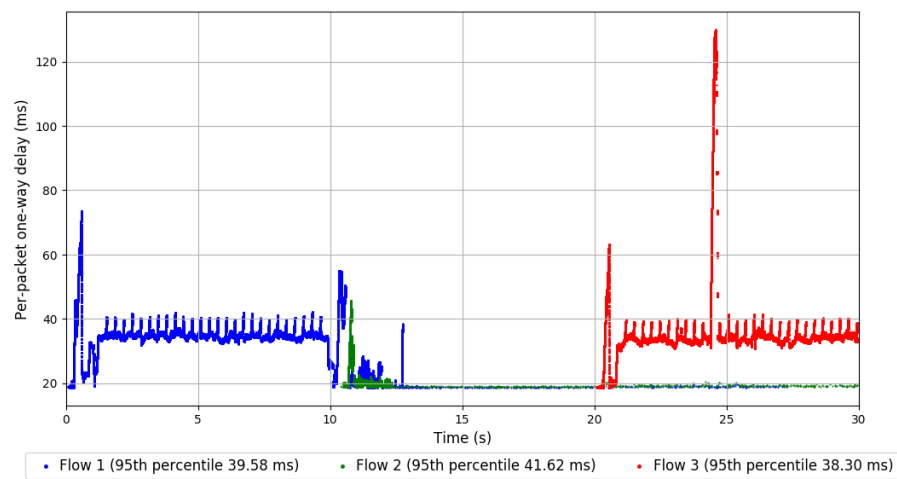
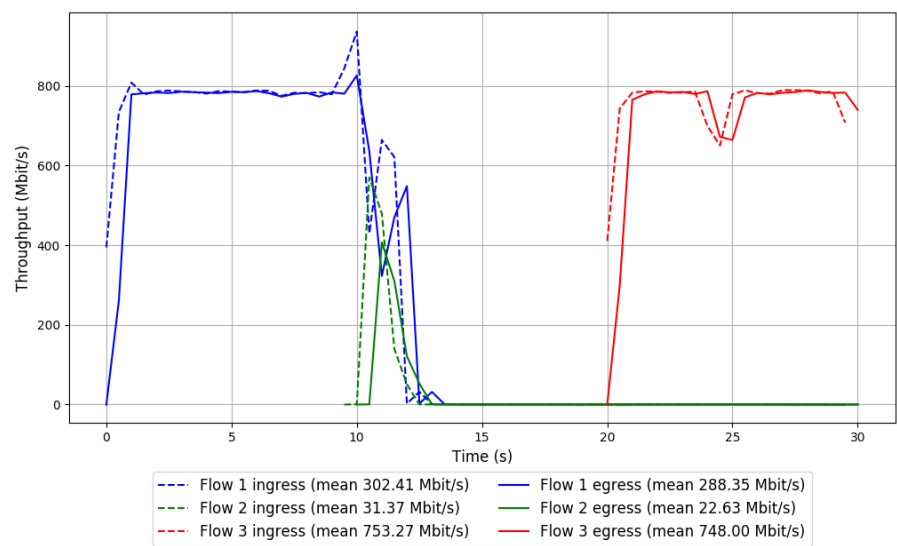
-- Flow 3:

Average throughput: 748.00 Mbit/s

95th percentile per-packet one-way delay: 38.300 ms

Loss rate: 0.69%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-08-22 06:51:00

End at: 2018-08-22 06:51:30

Local clock offset: 0.698 ms

Remote clock offset: 6.559 ms

Below is generated by plot.py at 2018-08-22 08:26:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 888.38 Mbit/s

95th percentile per-packet one-way delay: 40.559 ms

Loss rate: 18.41%

-- Flow 1:

Average throughput: 531.79 Mbit/s

95th percentile per-packet one-way delay: 38.556 ms

Loss rate: 14.30%

-- Flow 2:

Average throughput: 476.83 Mbit/s

95th percentile per-packet one-way delay: 47.590 ms

Loss rate: 22.48%

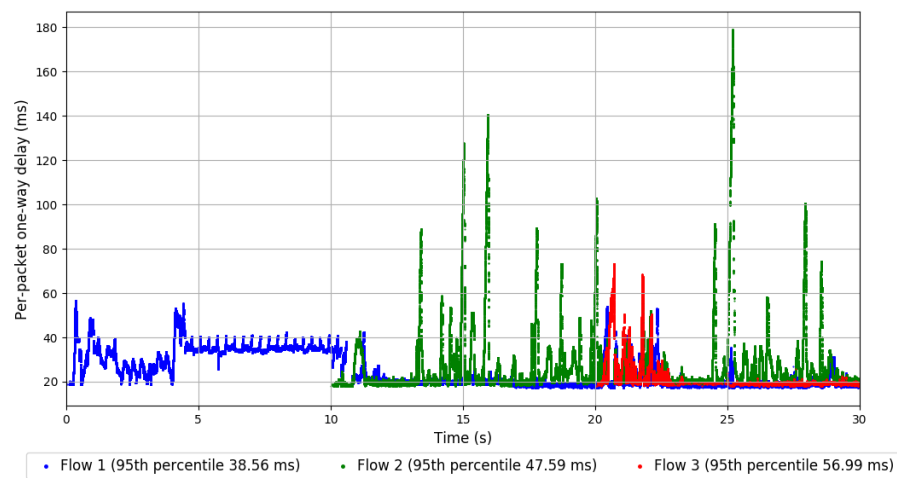
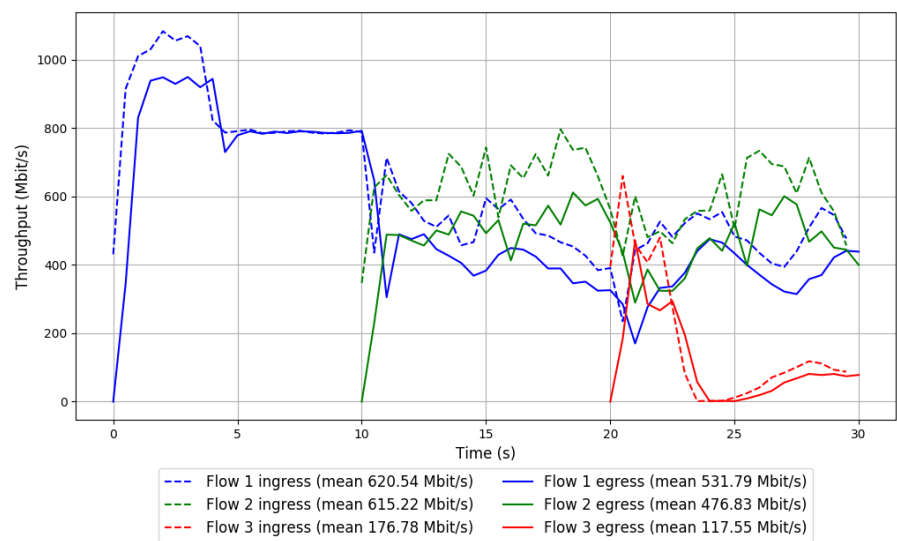
-- Flow 3:

Average throughput: 117.55 Mbit/s

95th percentile per-packet one-way delay: 56.988 ms

Loss rate: 33.50%

Run 10: Report of FillP-Sheep — Data Link

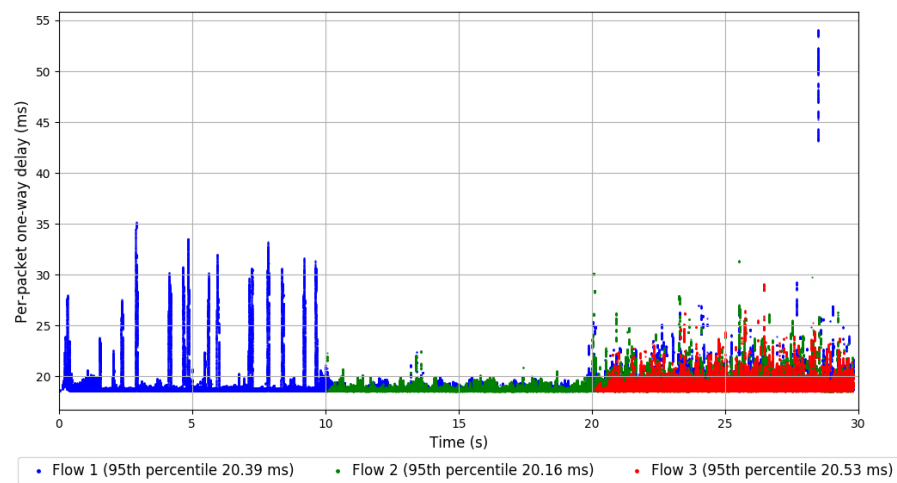
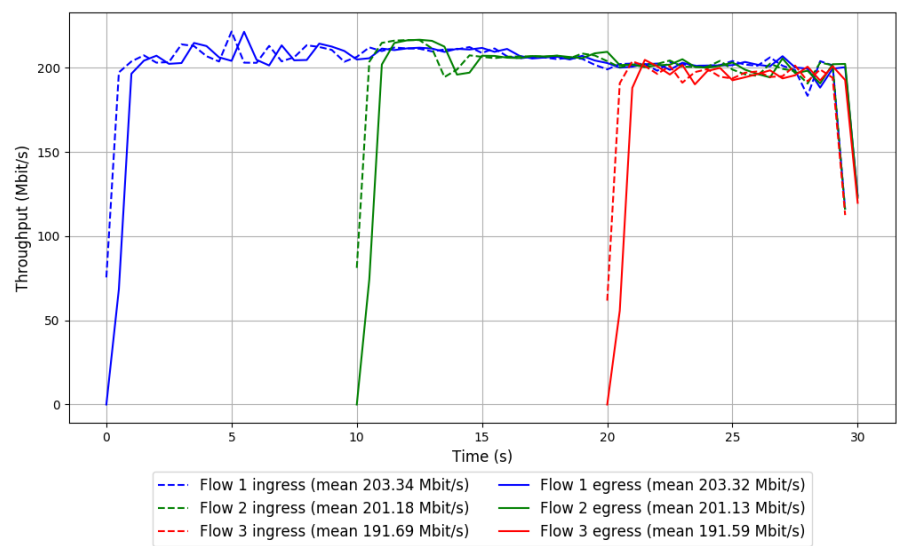


```
Run 1: Statistics of Indigo

Start at: 2018-08-22 02:38:25
End at: 2018-08-22 02:38:55
Local clock offset: 1.51 ms
Remote clock offset: 0.235 ms

# Below is generated by plot.py at 2018-08-22 08:26:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 398.95 Mbit/s
95th percentile per-packet one-way delay: 20.328 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 203.32 Mbit/s
95th percentile per-packet one-way delay: 20.390 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 201.13 Mbit/s
95th percentile per-packet one-way delay: 20.160 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 191.59 Mbit/s
95th percentile per-packet one-way delay: 20.531 ms
Loss rate: 0.05%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-08-22 03:05:45

End at: 2018-08-22 03:06:15

Local clock offset: 1.89 ms

Remote clock offset: 2.468 ms

Below is generated by plot.py at 2018-08-22 08:26:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 403.89 Mbit/s

95th percentile per-packet one-way delay: 20.533 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 206.58 Mbit/s

95th percentile per-packet one-way delay: 19.704 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 202.49 Mbit/s

95th percentile per-packet one-way delay: 20.579 ms

Loss rate: 0.03%

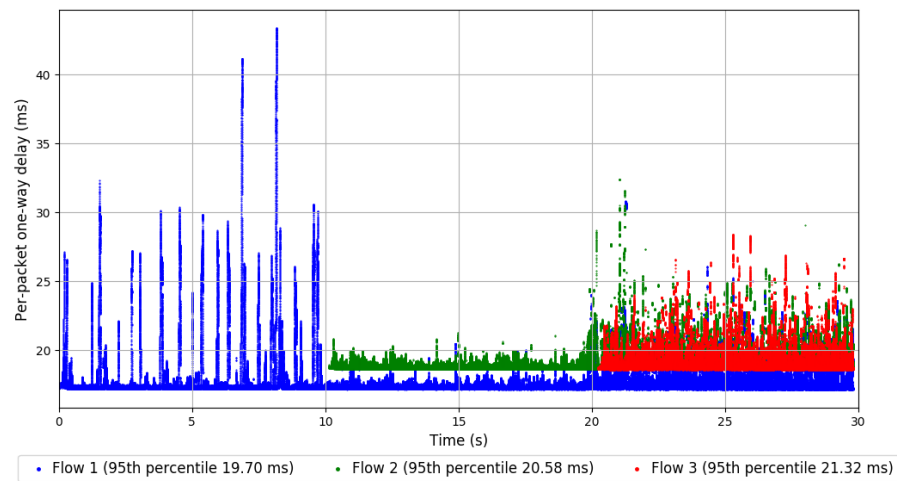
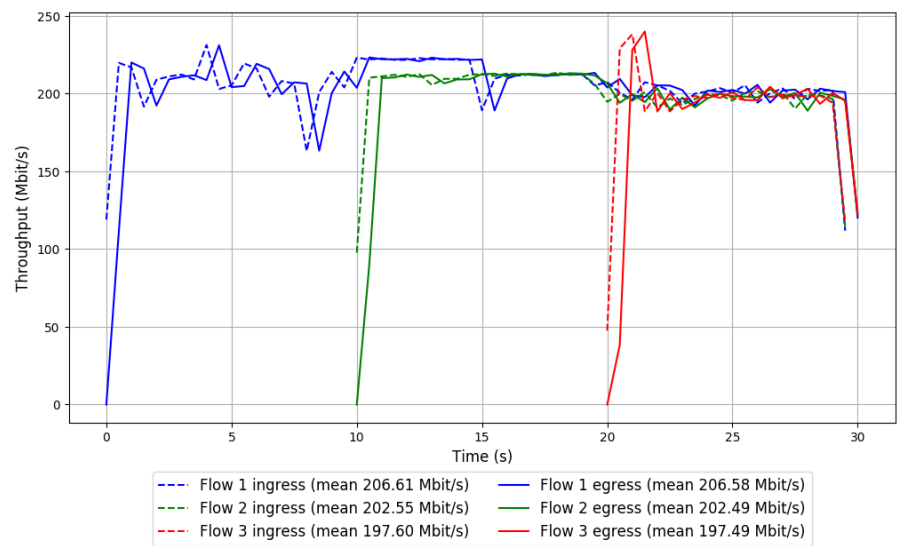
-- Flow 3:

Average throughput: 197.49 Mbit/s

95th percentile per-packet one-way delay: 21.325 ms

Loss rate: 0.06%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-08-22 03:33:05

End at: 2018-08-22 03:33:35

Local clock offset: 0.849 ms

Remote clock offset: 4.94 ms

Below is generated by plot.py at 2018-08-22 08:26:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.96 Mbit/s

95th percentile per-packet one-way delay: 19.781 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 106.14 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 198.36 Mbit/s

95th percentile per-packet one-way delay: 18.712 ms

Loss rate: 0.01%

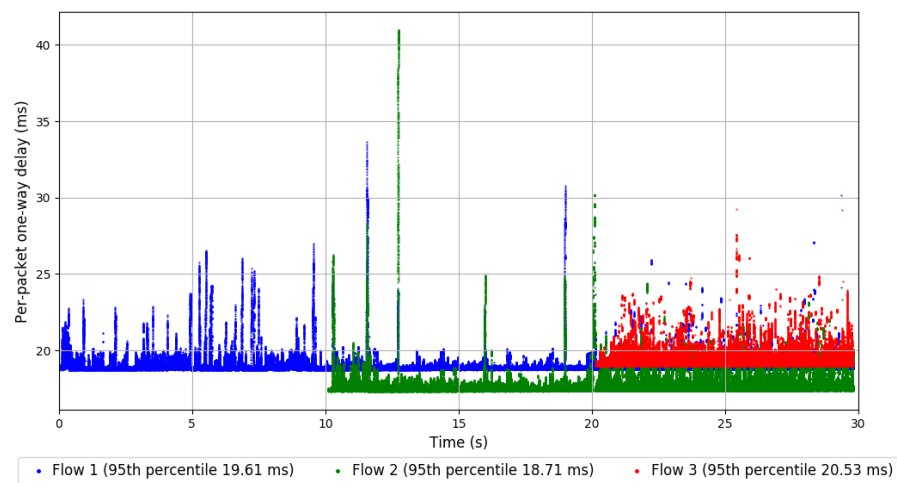
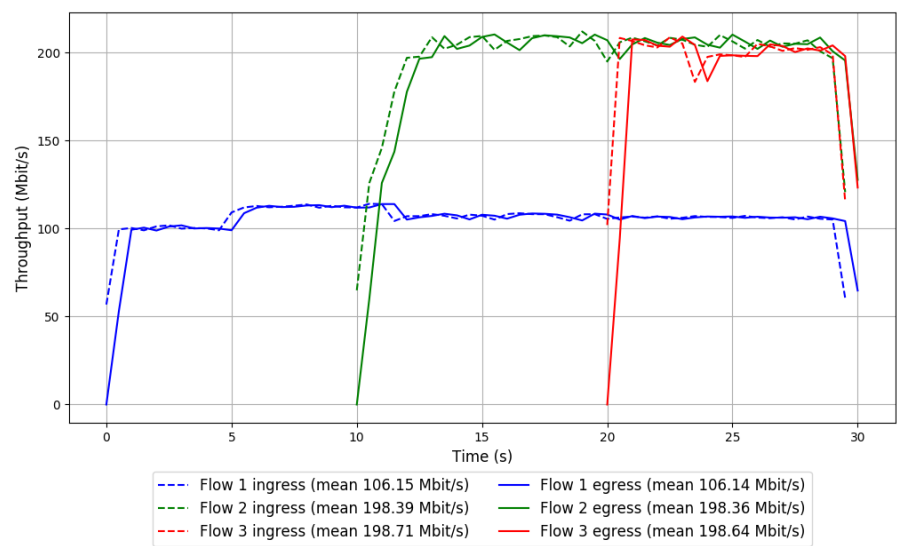
-- Flow 3:

Average throughput: 198.64 Mbit/s

95th percentile per-packet one-way delay: 20.530 ms

Loss rate: 0.03%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-08-22 04:00:25

End at: 2018-08-22 04:00:55

Local clock offset: -2.986 ms

Remote clock offset: 4.15 ms

Below is generated by plot.py at 2018-08-22 08:26:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 396.37 Mbit/s

95th percentile per-packet one-way delay: 20.310 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 203.73 Mbit/s

95th percentile per-packet one-way delay: 20.124 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 196.37 Mbit/s

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

Loss rate: 0.02%

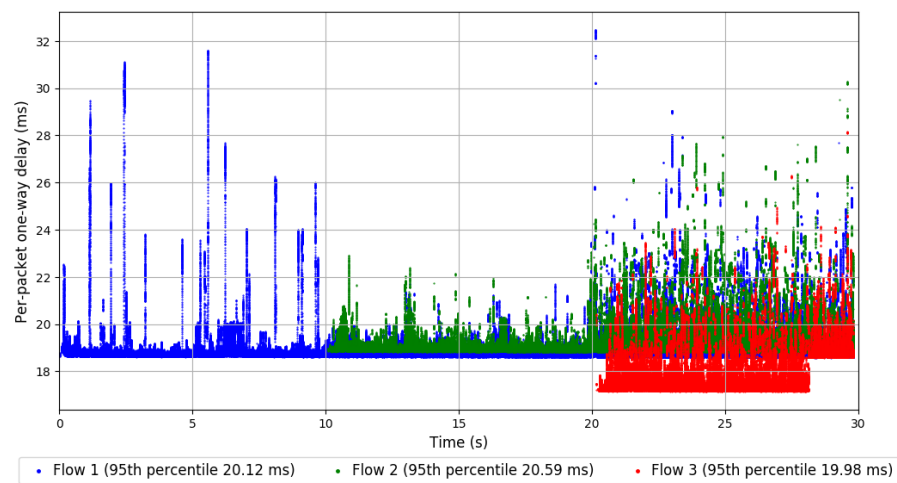
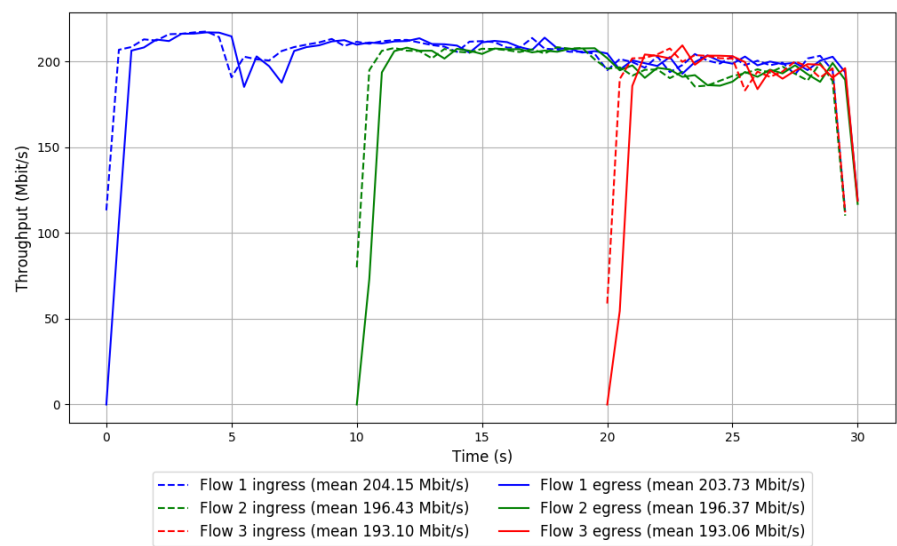
-- Flow 3:

Average throughput: 193.06 Mbit/s

95th percentile per-packet one-way delay: 19.984 ms

Loss rate: 0.03%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-08-22 04:27:40

End at: 2018-08-22 04:28:10

Local clock offset: -2.903 ms

Remote clock offset: 3.428 ms

Below is generated by plot.py at 2018-08-22 08:26:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 395.56 Mbit/s

95th percentile per-packet one-way delay: 20.118 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 201.12 Mbit/s

95th percentile per-packet one-way delay: 19.685 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 197.89 Mbit/s

95th percentile per-packet one-way delay: 20.550 ms

Loss rate: 0.96%

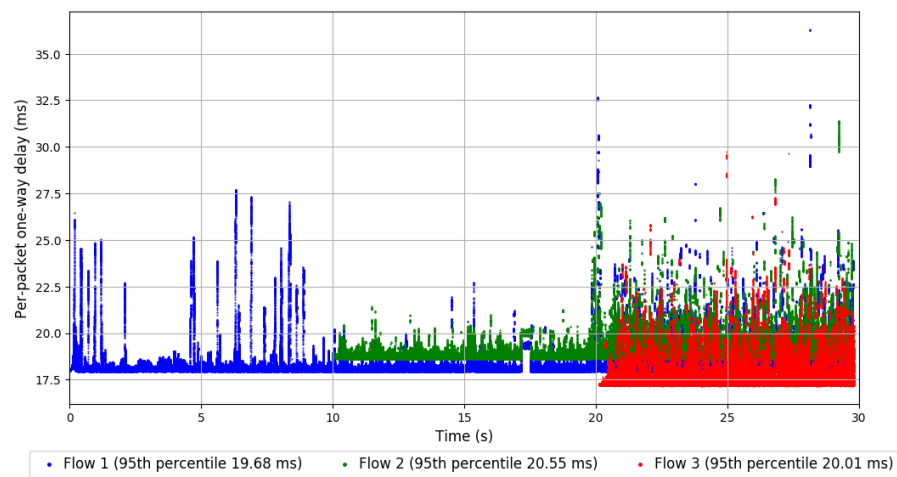
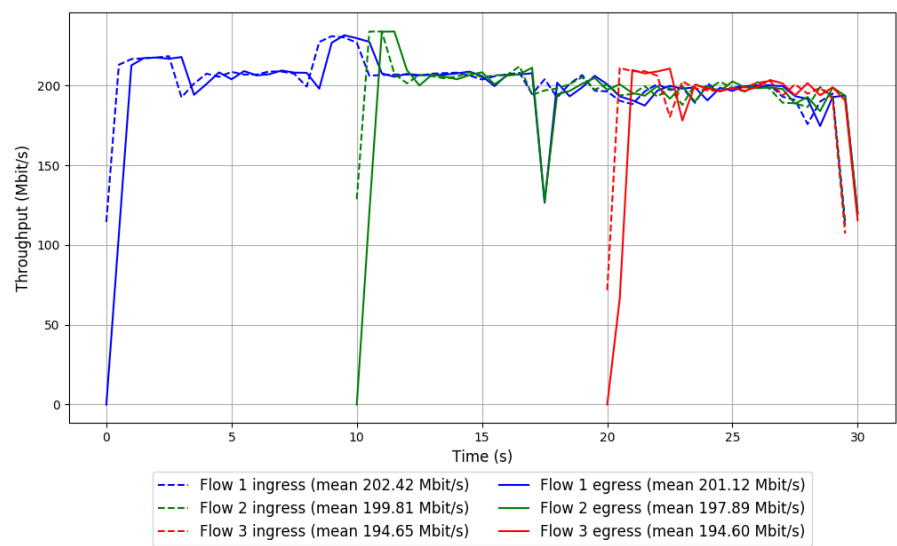
-- Flow 3:

Average throughput: 194.60 Mbit/s

95th percentile per-packet one-way delay: 20.008 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link

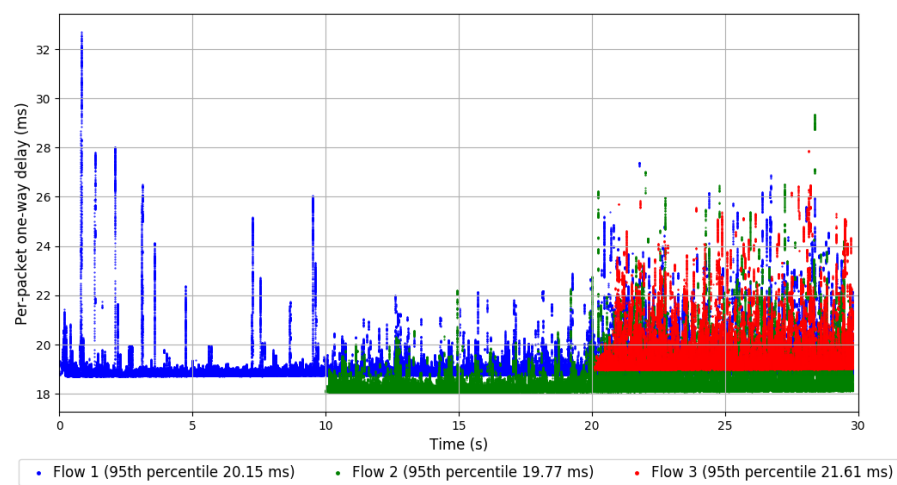
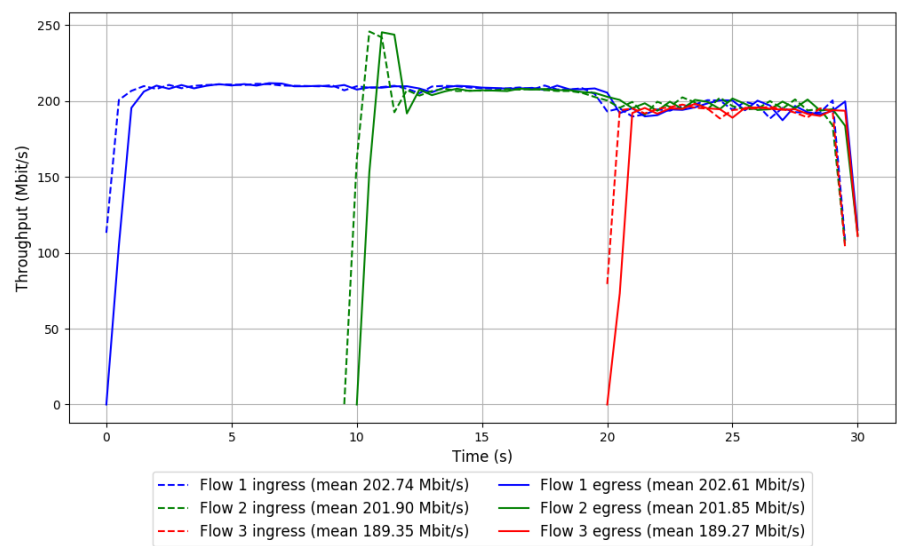


Run 6: Statistics of Indigo

Start at: 2018-08-22 04:54:55
End at: 2018-08-22 04:55:25
Local clock offset: 0.628 ms
Remote clock offset: -0.181 ms

Below is generated by plot.py at 2018-08-22 08:26:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 398.40 Mbit/s
95th percentile per-packet one-way delay: 20.420 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 202.61 Mbit/s
95th percentile per-packet one-way delay: 20.153 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 201.85 Mbit/s
95th percentile per-packet one-way delay: 19.775 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 189.27 Mbit/s
95th percentile per-packet one-way delay: 21.615 ms
Loss rate: 0.04%

Run 6: Report of Indigo — Data Link

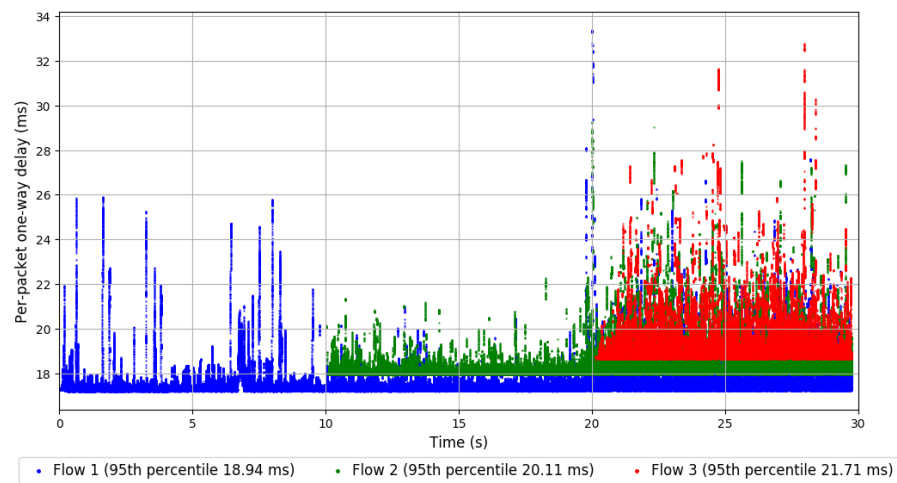
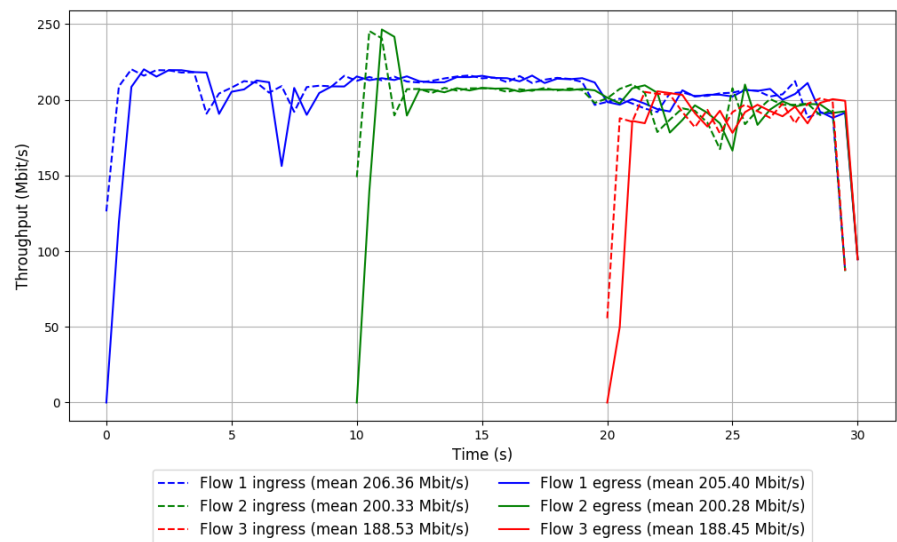


Run 7: Statistics of Indigo

Start at: 2018-08-22 05:22:13
End at: 2018-08-22 05:22:43
Local clock offset: 0.988 ms
Remote clock offset: -2.401 ms

Below is generated by plot.py at 2018-08-22 08:26:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 399.04 Mbit/s
95th percentile per-packet one-way delay: 20.138 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 205.40 Mbit/s
95th percentile per-packet one-way delay: 18.944 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 200.28 Mbit/s
95th percentile per-packet one-way delay: 20.109 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 188.45 Mbit/s
95th percentile per-packet one-way delay: 21.714 ms
Loss rate: 0.04%

Run 7: Report of Indigo — Data Link

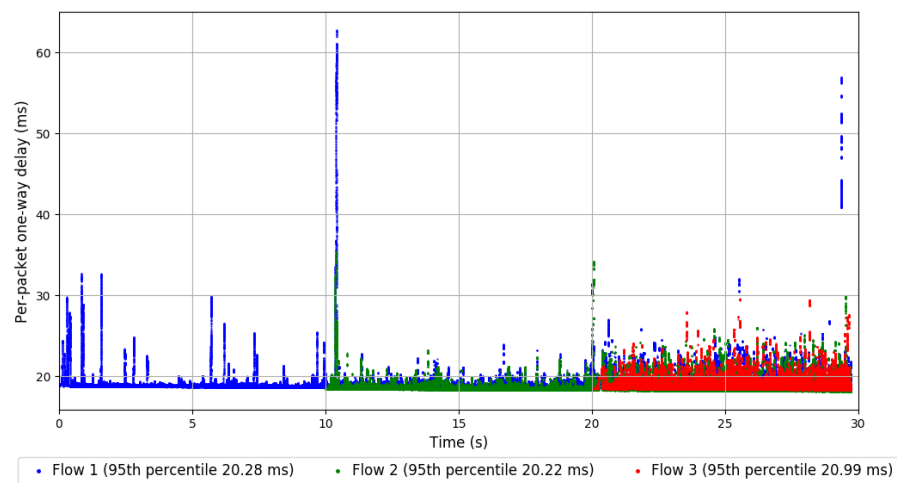
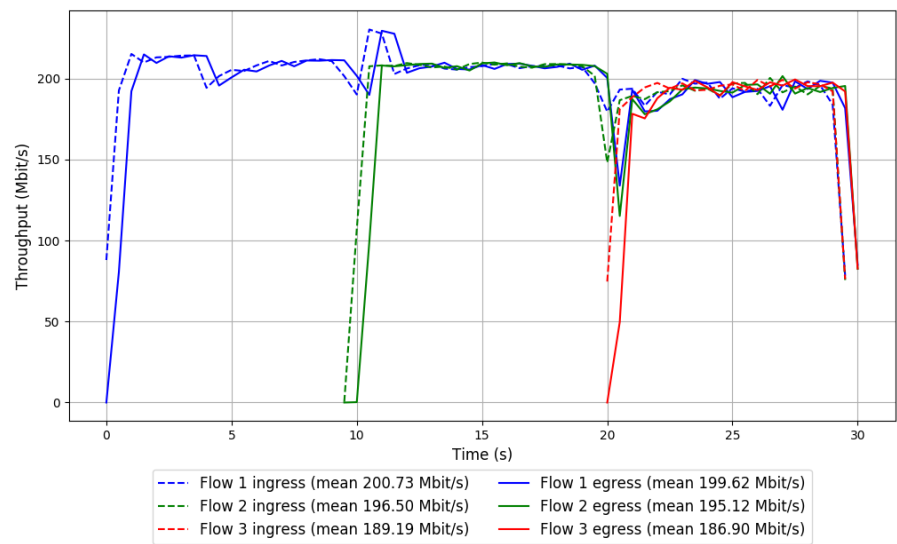


Run 8: Statistics of Indigo

Start at: 2018-08-22 05:49:24
End at: 2018-08-22 05:49:54
Local clock offset: -1.83 ms
Remote clock offset: -3.186 ms

Below is generated by plot.py at 2018-08-22 08:26:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 389.85 Mbit/s
95th percentile per-packet one-way delay: 20.412 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 199.62 Mbit/s
95th percentile per-packet one-way delay: 20.276 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 195.12 Mbit/s
95th percentile per-packet one-way delay: 20.220 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 186.90 Mbit/s
95th percentile per-packet one-way delay: 20.991 ms
Loss rate: 1.21%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-08-22 06:16:26

End at: 2018-08-22 06:16:56

Local clock offset: -0.457 ms

Remote clock offset: 4.151 ms

Below is generated by plot.py at 2018-08-22 08:26:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.44 Mbit/s

95th percentile per-packet one-way delay: 19.853 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 104.38 Mbit/s

95th percentile per-packet one-way delay: 19.677 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 199.42 Mbit/s

95th percentile per-packet one-way delay: 19.802 ms

Loss rate: 0.02%

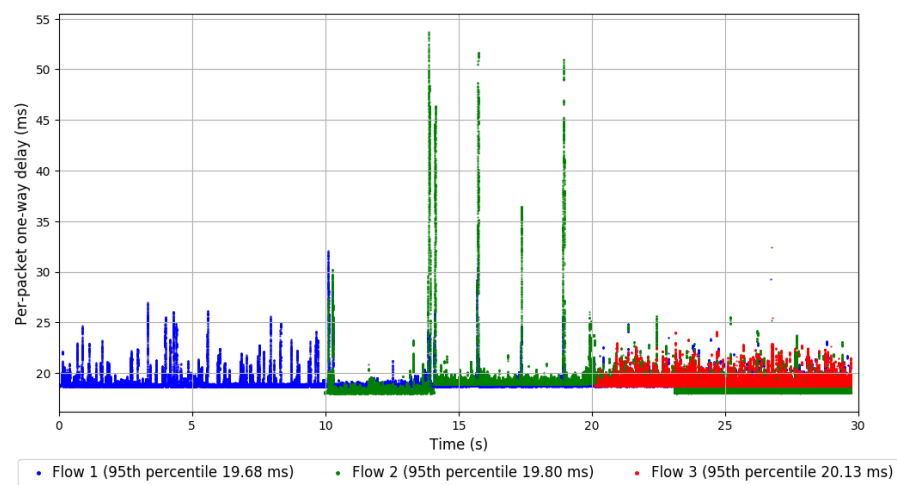
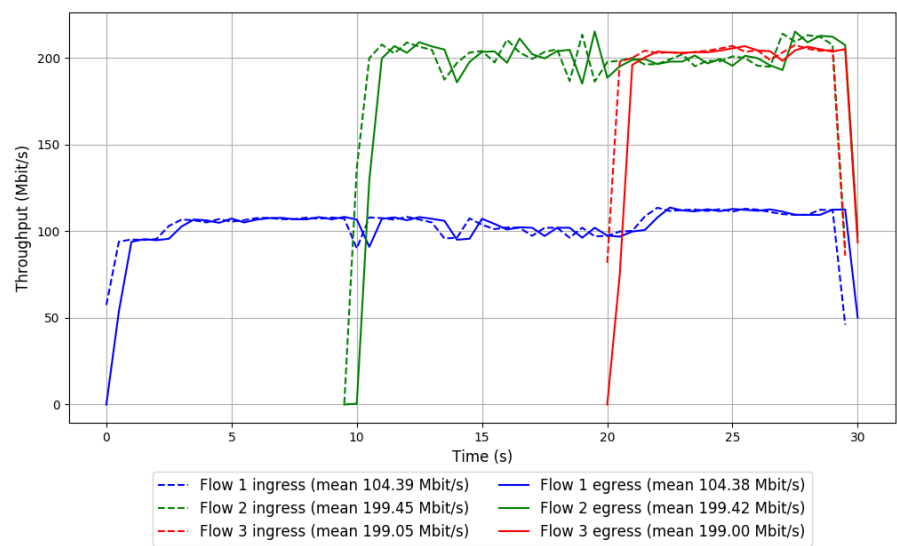
-- Flow 3:

Average throughput: 199.00 Mbit/s

95th percentile per-packet one-way delay: 20.132 ms

Loss rate: 0.02%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-08-22 06:43:14

End at: 2018-08-22 06:43:44

Local clock offset: 0.963 ms

Remote clock offset: 6.196 ms

Below is generated by plot.py at 2018-08-22 08:26:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 396.97 Mbit/s

95th percentile per-packet one-way delay: 20.662 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 203.35 Mbit/s

95th percentile per-packet one-way delay: 20.185 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 197.23 Mbit/s

95th percentile per-packet one-way delay: 20.661 ms

Loss rate: 0.30%

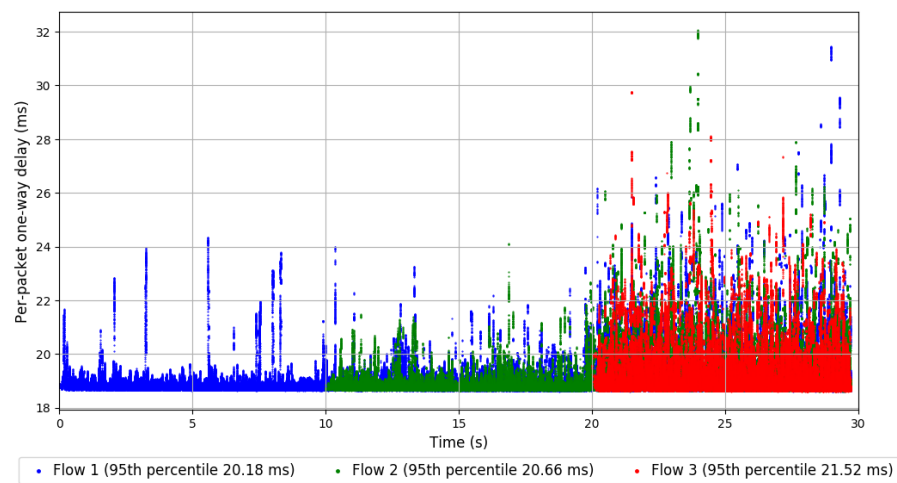
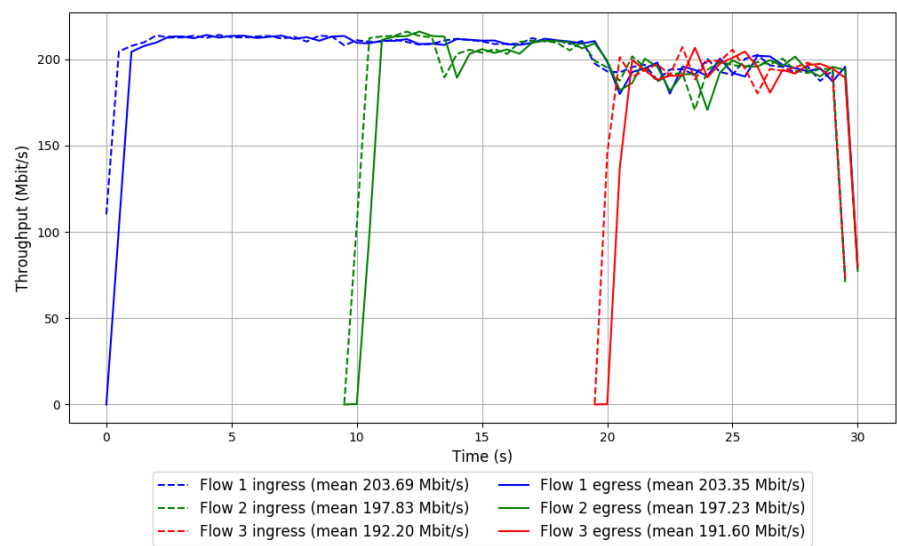
-- Flow 3:

Average throughput: 191.60 Mbit/s

95th percentile per-packet one-way delay: 21.521 ms

Loss rate: 0.33%

Run 10: Report of Indigo — Data Link

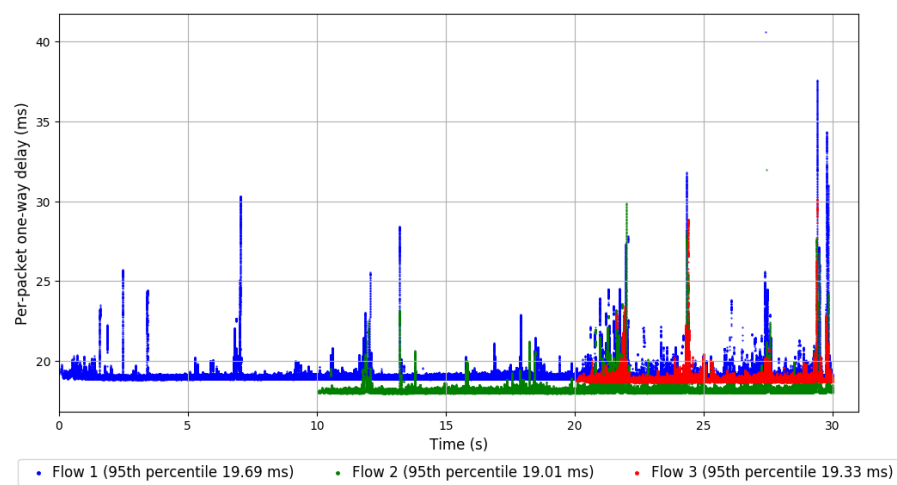
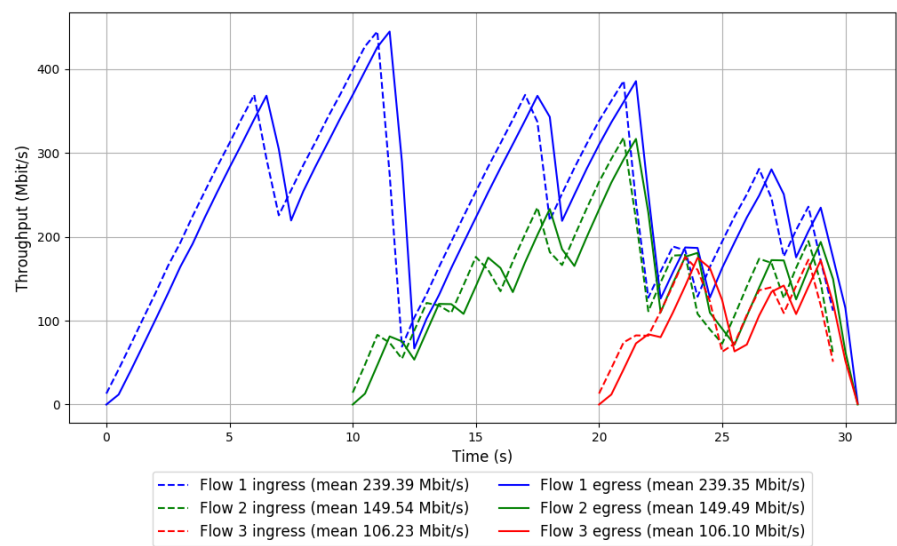


Run 1: Statistics of LEDBAT

Start at: 2018-08-22 02:26:42
End at: 2018-08-22 02:27:13
Local clock offset: 0.821 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-08-22 08:27:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 374.17 Mbit/s
95th percentile per-packet one-way delay: 19.510 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 239.35 Mbit/s
95th percentile per-packet one-way delay: 19.690 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 149.49 Mbit/s
95th percentile per-packet one-way delay: 19.012 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 106.10 Mbit/s
95th percentile per-packet one-way delay: 19.330 ms
Loss rate: 0.13%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-08-22 02:54:06

End at: 2018-08-22 02:54:36

Local clock offset: 1.691 ms

Remote clock offset: 0.633 ms

Below is generated by plot.py at 2018-08-22 08:27:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.47 Mbit/s

95th percentile per-packet one-way delay: 18.927 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 175.16 Mbit/s

95th percentile per-packet one-way delay: 19.006 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 158.22 Mbit/s

95th percentile per-packet one-way delay: 18.766 ms

Loss rate: 0.04%

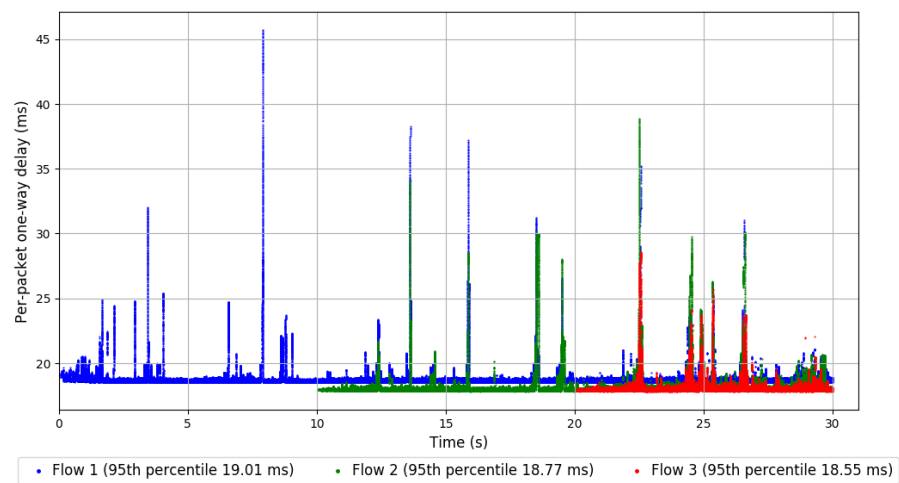
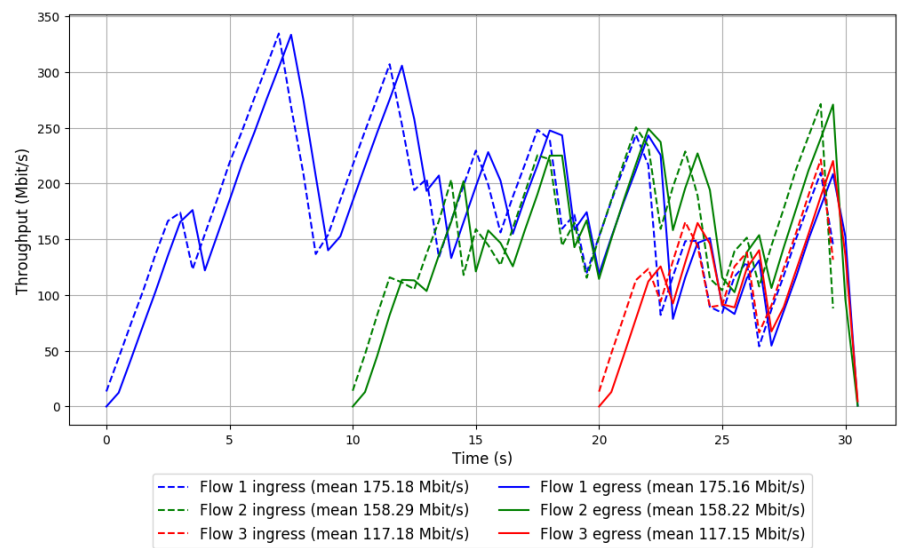
-- Flow 3:

Average throughput: 117.15 Mbit/s

95th percentile per-packet one-way delay: 18.551 ms

Loss rate: 0.03%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-08-22 03:21:31

End at: 2018-08-22 03:22:01

Local clock offset: 0.975 ms

Remote clock offset: 4.268 ms

Below is generated by plot.py at 2018-08-22 08:27:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.19 Mbit/s

95th percentile per-packet one-way delay: 18.907 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 210.43 Mbit/s

95th percentile per-packet one-way delay: 18.489 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 141.89 Mbit/s

95th percentile per-packet one-way delay: 19.355 ms

Loss rate: 0.02%

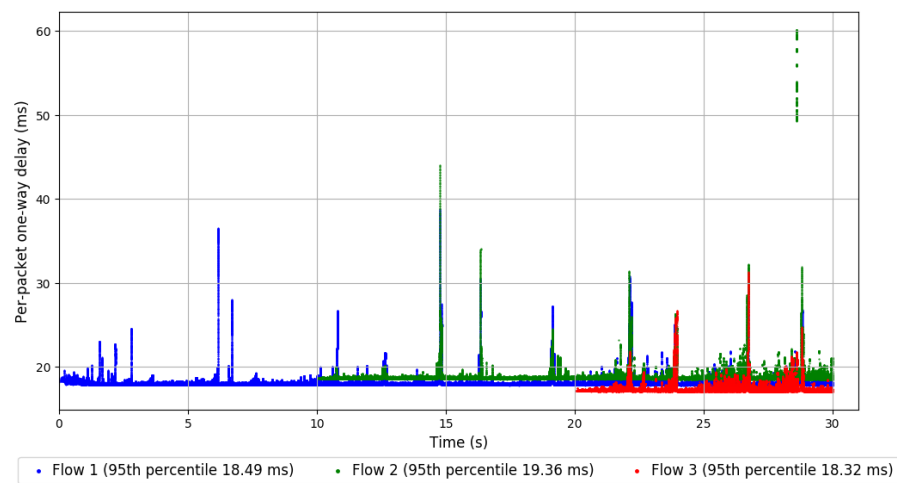
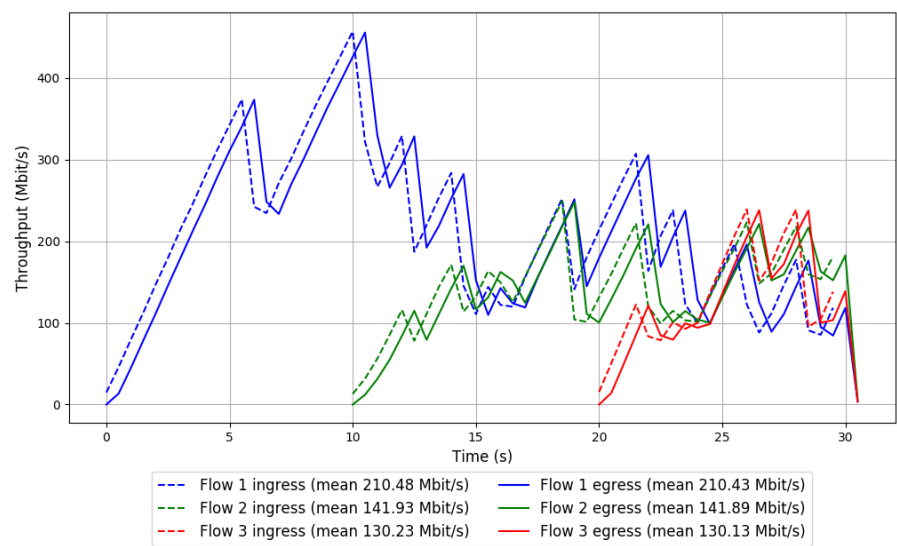
-- Flow 3:

Average throughput: 130.13 Mbit/s

95th percentile per-packet one-way delay: 18.321 ms

Loss rate: 0.07%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-08-22 03:48:46

End at: 2018-08-22 03:49:16

Local clock offset: -1.911 ms

Remote clock offset: 3.907 ms

Below is generated by plot.py at 2018-08-22 08:29:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 396.09 Mbit/s

95th percentile per-packet one-way delay: 19.085 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 248.88 Mbit/s

95th percentile per-packet one-way delay: 19.136 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 153.97 Mbit/s

95th percentile per-packet one-way delay: 18.609 ms

Loss rate: 0.02%

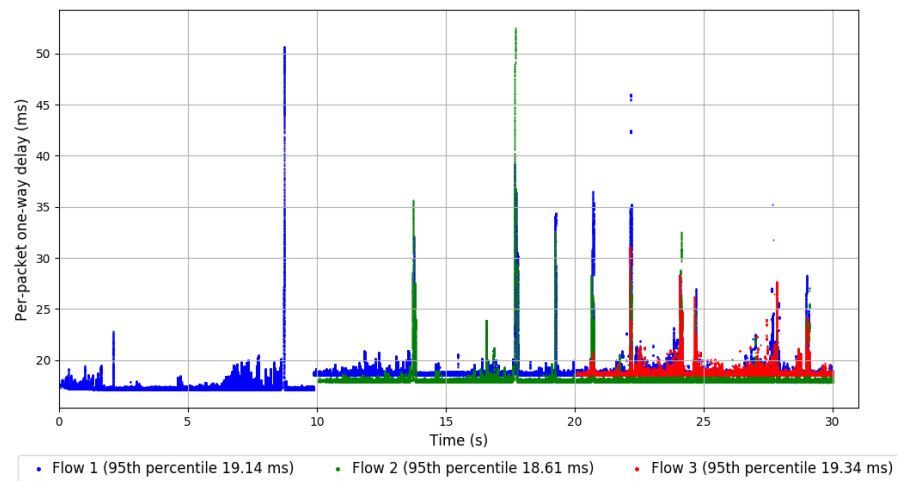
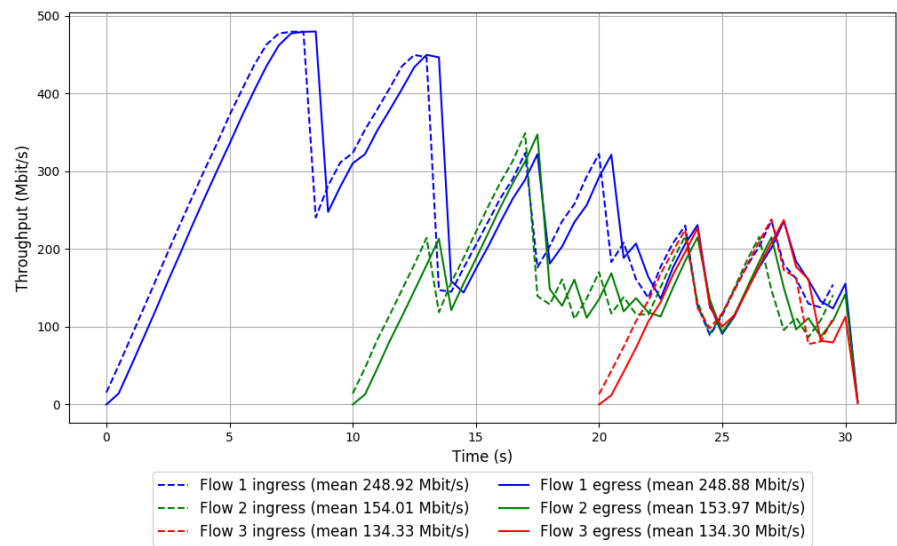
-- Flow 3:

Average throughput: 134.30 Mbit/s

95th percentile per-packet one-way delay: 19.345 ms

Loss rate: 0.03%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-08-22 04:16:08

End at: 2018-08-22 04:16:38

Local clock offset: -2.89 ms

Remote clock offset: 3.532 ms

Below is generated by plot.py at 2018-08-22 08:29:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.94 Mbit/s

95th percentile per-packet one-way delay: 19.373 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 166.28 Mbit/s

95th percentile per-packet one-way delay: 19.453 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 144.67 Mbit/s

95th percentile per-packet one-way delay: 18.735 ms

Loss rate: 0.09%

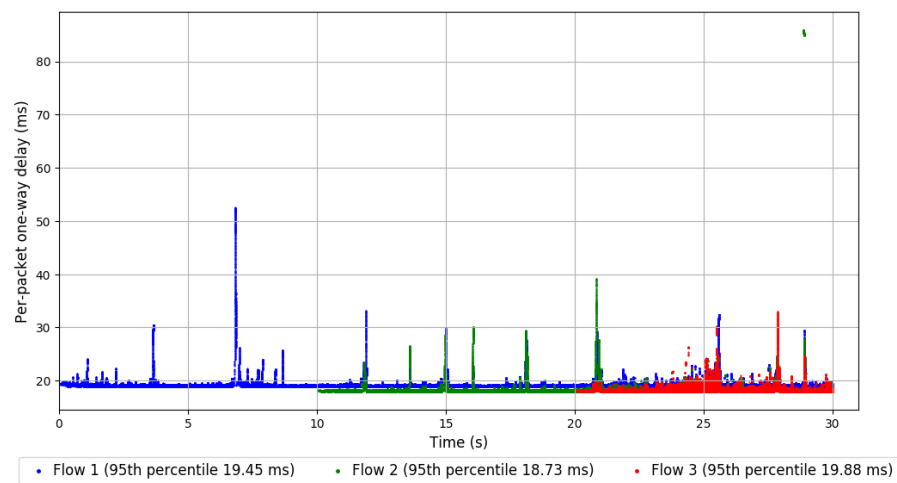
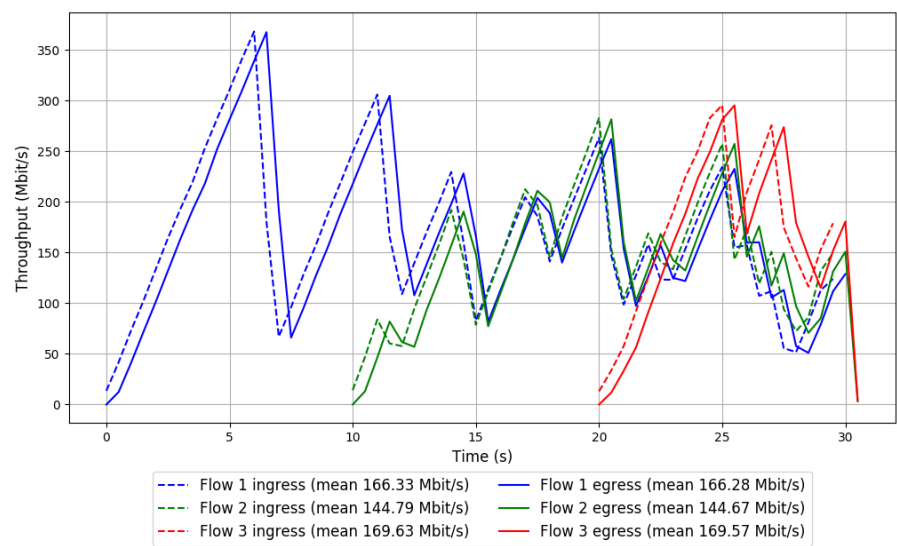
-- Flow 3:

Average throughput: 169.57 Mbit/s

95th percentile per-packet one-way delay: 19.877 ms

Loss rate: 0.04%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-08-22 04:43:16

End at: 2018-08-22 04:43:46

Local clock offset: -1.179 ms

Remote clock offset: 2.37 ms

Below is generated by plot.py at 2018-08-22 08:30:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 439.89 Mbit/s

95th percentile per-packet one-way delay: 19.905 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 262.02 Mbit/s

95th percentile per-packet one-way delay: 18.811 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 215.47 Mbit/s

95th percentile per-packet one-way delay: 20.296 ms

Loss rate: 0.03%

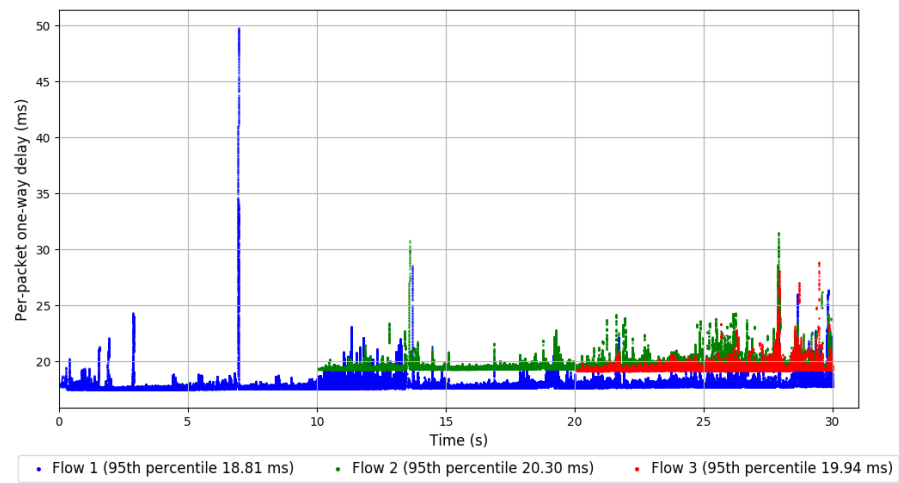
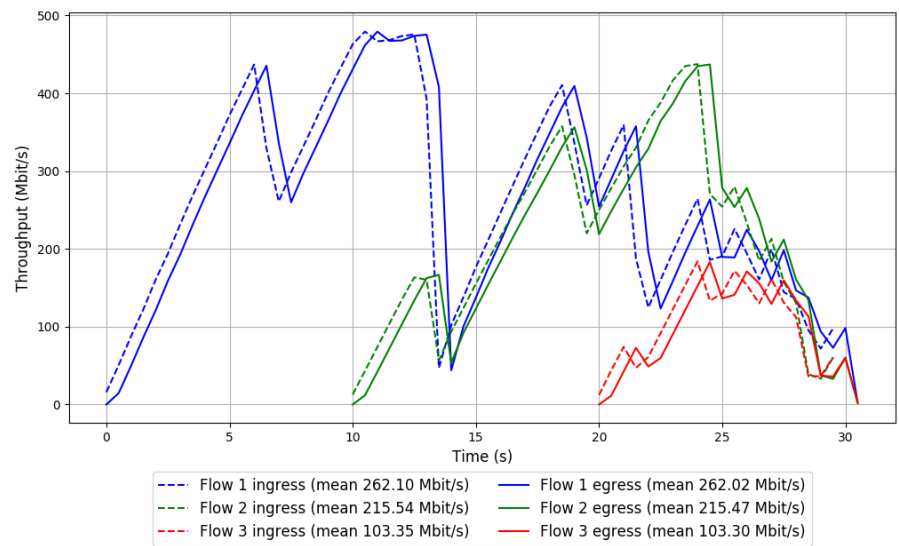
-- Flow 3:

Average throughput: 103.30 Mbit/s

95th percentile per-packet one-way delay: 19.938 ms

Loss rate: 0.04%

Run 6: Report of LEDBAT — Data Link

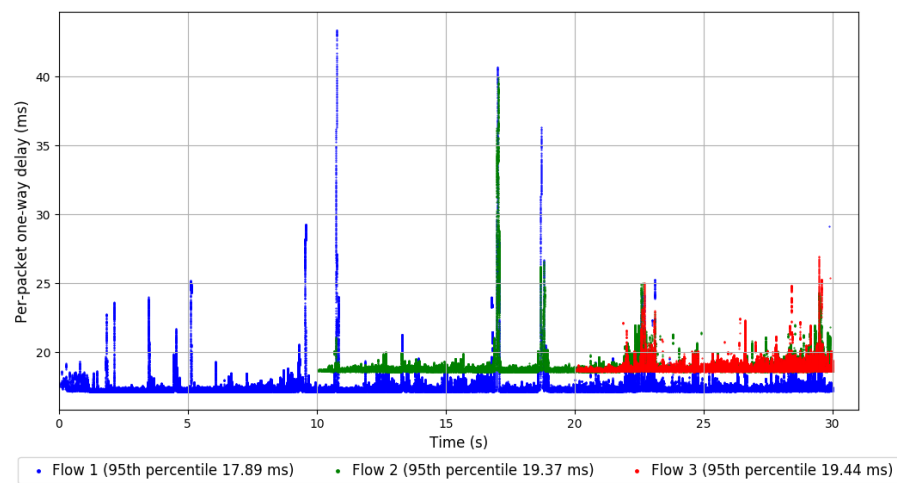
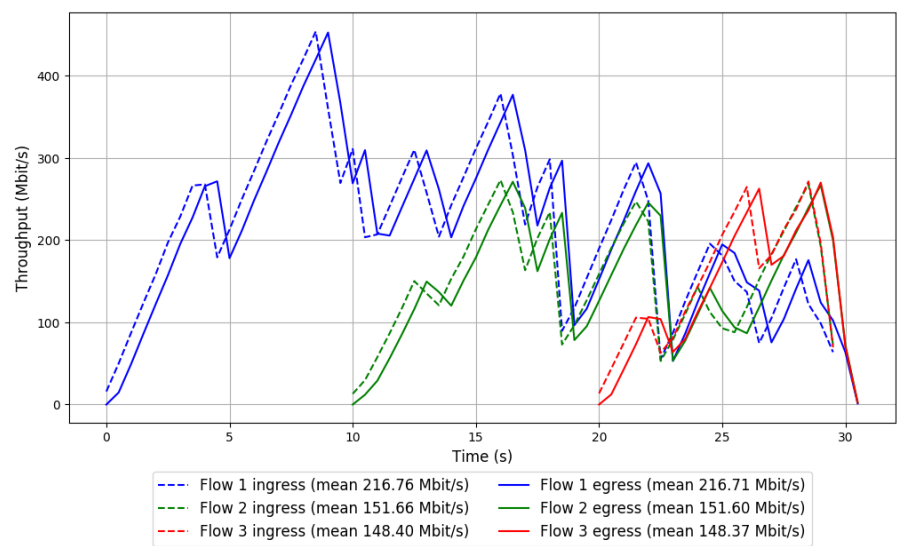


Run 7: Statistics of LEDBAT

Start at: 2018-08-22 05:10:34
End at: 2018-08-22 05:11:04
Local clock offset: 1.167 ms
Remote clock offset: -1.656 ms

Below is generated by plot.py at 2018-08-22 08:31:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 366.96 Mbit/s
95th percentile per-packet one-way delay: 19.060 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 216.71 Mbit/s
95th percentile per-packet one-way delay: 17.886 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 151.60 Mbit/s
95th percentile per-packet one-way delay: 19.373 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 148.37 Mbit/s
95th percentile per-packet one-way delay: 19.443 ms
Loss rate: 0.01%

Run 7: Report of LEDBAT — Data Link

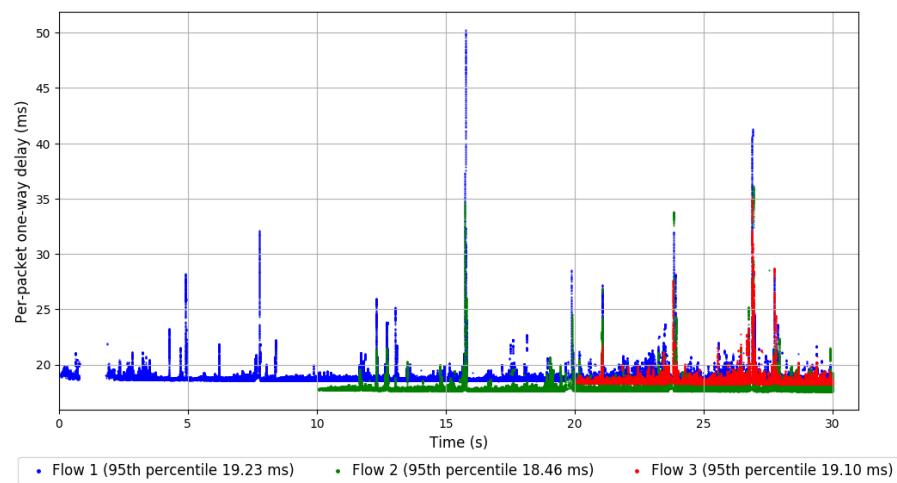
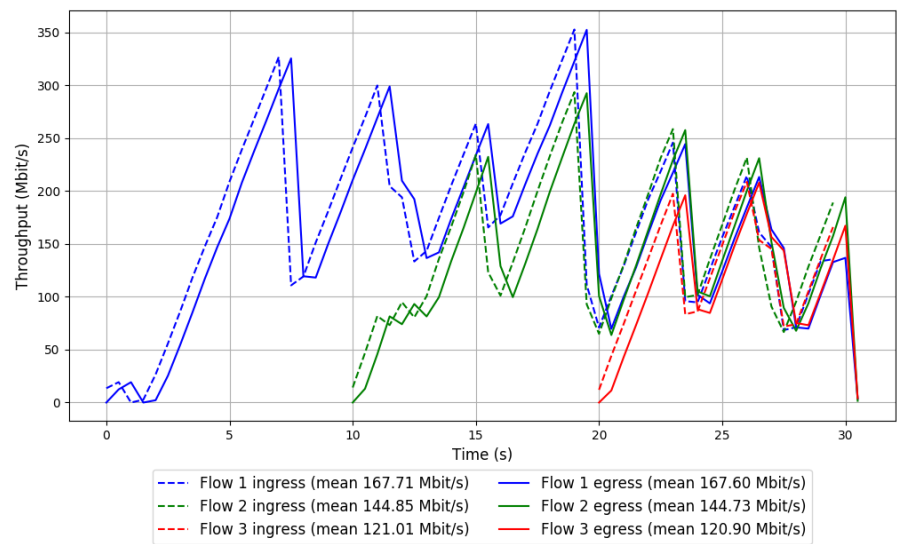


Run 8: Statistics of LEDBAT

Start at: 2018-08-22 05:37:51
End at: 2018-08-22 05:38:21
Local clock offset: 0.864 ms
Remote clock offset: -3.309 ms

Below is generated by plot.py at 2018-08-22 08:31:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 304.23 Mbit/s
95th percentile per-packet one-way delay: 19.075 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 167.60 Mbit/s
95th percentile per-packet one-way delay: 19.234 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 144.73 Mbit/s
95th percentile per-packet one-way delay: 18.457 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 120.90 Mbit/s
95th percentile per-packet one-way delay: 19.097 ms
Loss rate: 0.08%

Run 8: Report of LEDBAT — Data Link

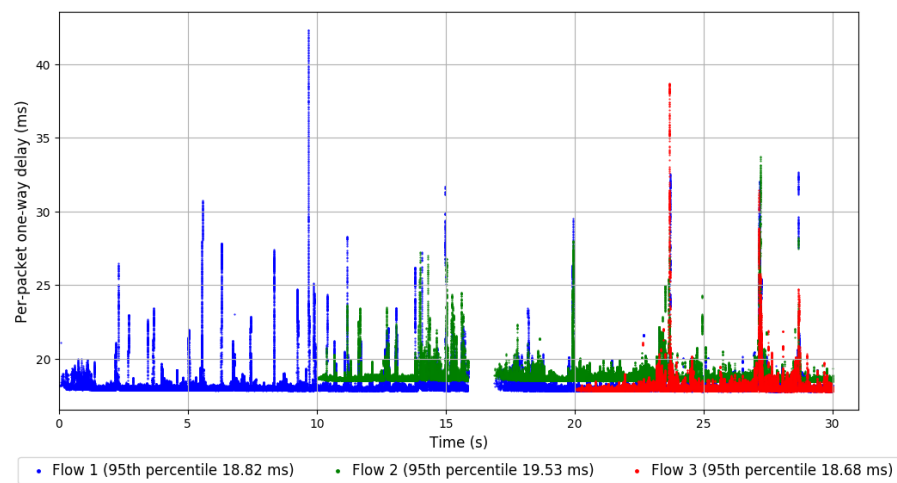
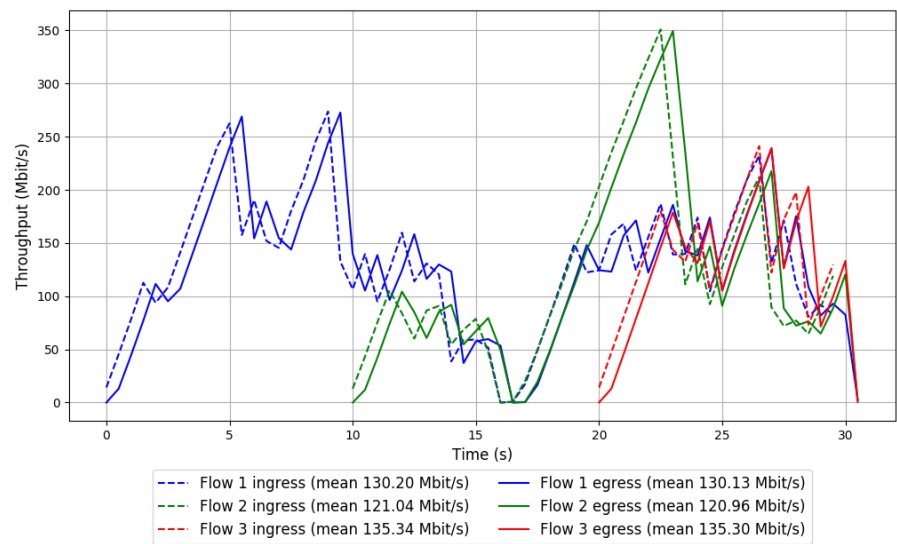


Run 9: Statistics of LEDBAT

Start at: 2018-08-22 06:04:59
End at: 2018-08-22 06:05:29
Local clock offset: -3.026 ms
Remote clock offset: 2.783 ms

Below is generated by plot.py at 2018-08-22 08:31:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 255.69 Mbit/s
95th percentile per-packet one-way delay: 19.132 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 130.13 Mbit/s
95th percentile per-packet one-way delay: 18.816 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 120.96 Mbit/s
95th percentile per-packet one-way delay: 19.528 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 135.30 Mbit/s
95th percentile per-packet one-way delay: 18.678 ms
Loss rate: 0.03%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-08-22 06:31:44

End at: 2018-08-22 06:32:14

Local clock offset: 0.972 ms

Remote clock offset: 5.306 ms

Below is generated by plot.py at 2018-08-22 08:31:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.29 Mbit/s

95th percentile per-packet one-way delay: 19.544 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 151.71 Mbit/s

95th percentile per-packet one-way delay: 18.890 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 178.90 Mbit/s

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

Loss rate: 0.02%

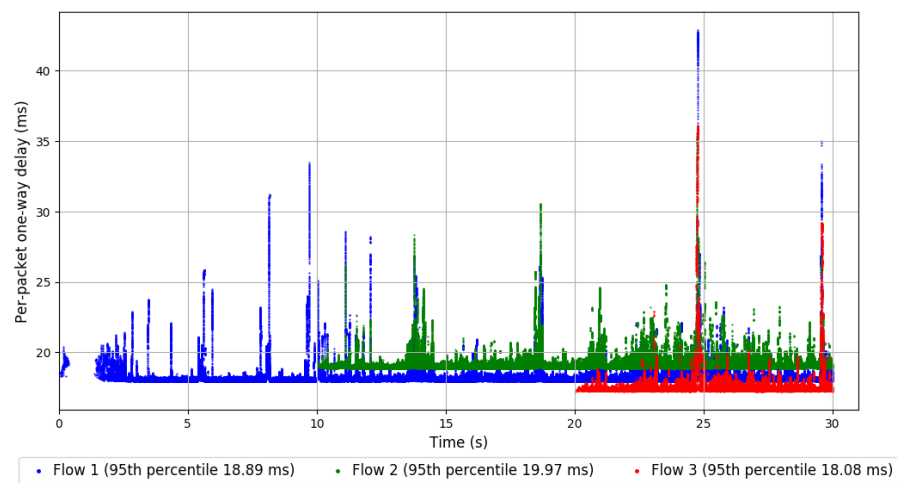
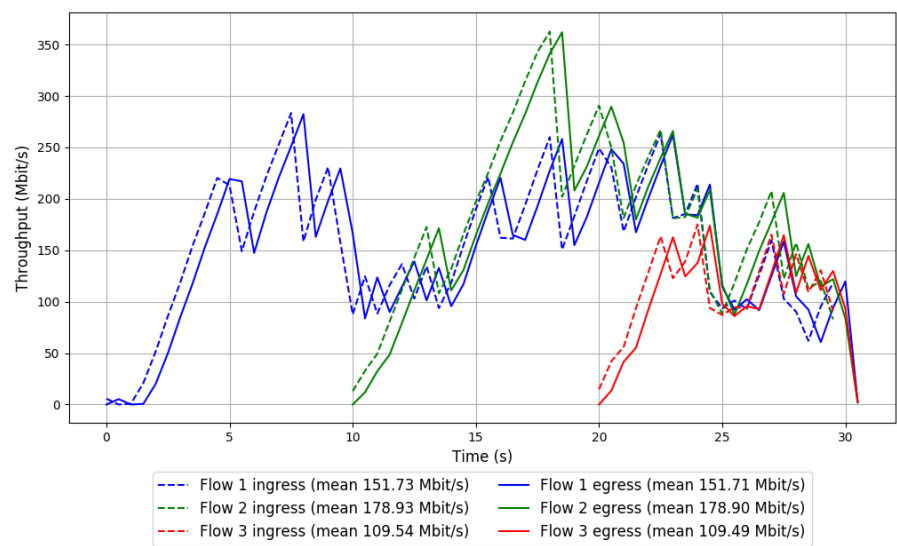
-- Flow 3:

Average throughput: 109.49 Mbit/s

95th percentile per-packet one-way delay: 18.082 ms

Loss rate: 0.05%

Run 10: Report of LEDBAT — Data Link

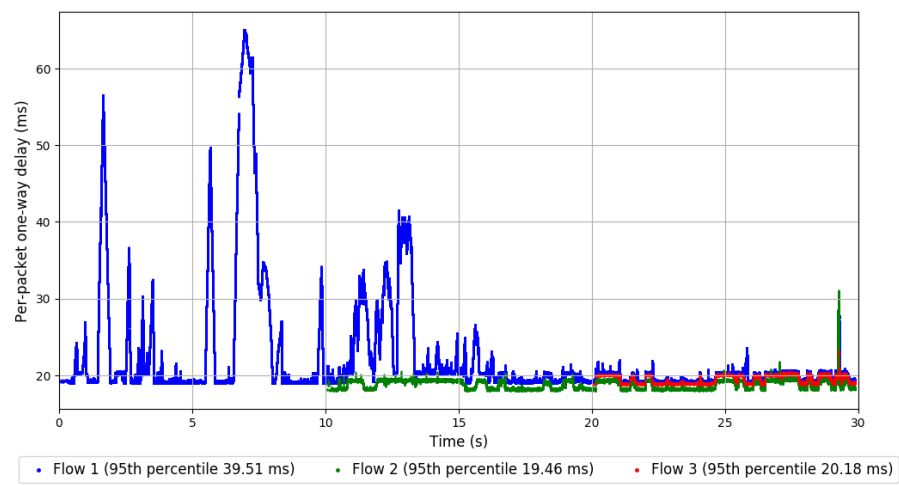
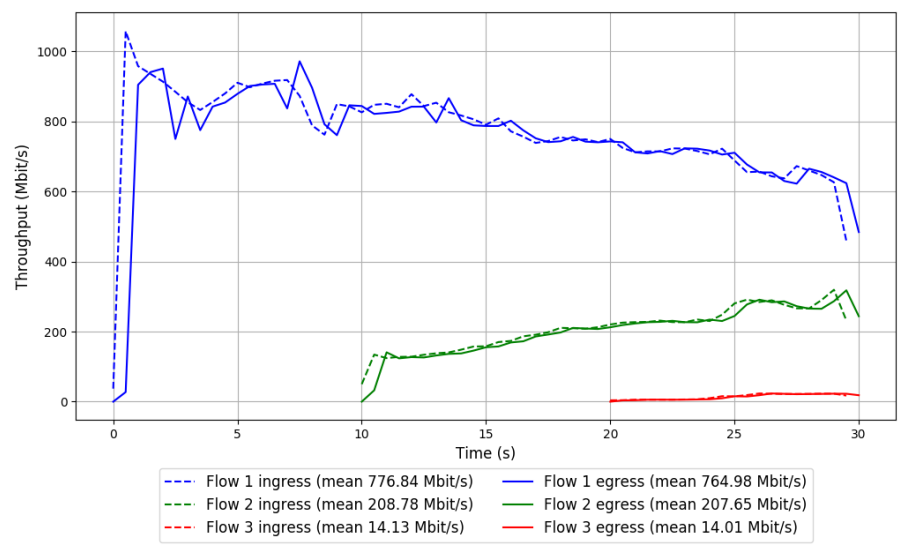


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-22 02:40:00
End at: 2018-08-22 02:40:30
Local clock offset: 1.43 ms
Remote clock offset: 0.32 ms

# Below is generated by plot.py at 2018-08-22 08:38:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 907.69 Mbit/s
95th percentile per-packet one-way delay: 37.630 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 764.98 Mbit/s
95th percentile per-packet one-way delay: 39.505 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 207.65 Mbit/s
95th percentile per-packet one-way delay: 19.458 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 14.01 Mbit/s
95th percentile per-packet one-way delay: 20.180 ms
Loss rate: 0.86%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-22 03:07:21

End at: 2018-08-22 03:07:51

Local clock offset: 2.02 ms

Remote clock offset: 2.741 ms

Below is generated by plot.py at 2018-08-22 08:39:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 907.40 Mbit/s

95th percentile per-packet one-way delay: 27.294 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 845.16 Mbit/s

95th percentile per-packet one-way delay: 27.618 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 58.84 Mbit/s

95th percentile per-packet one-way delay: 19.832 ms

Loss rate: 0.19%

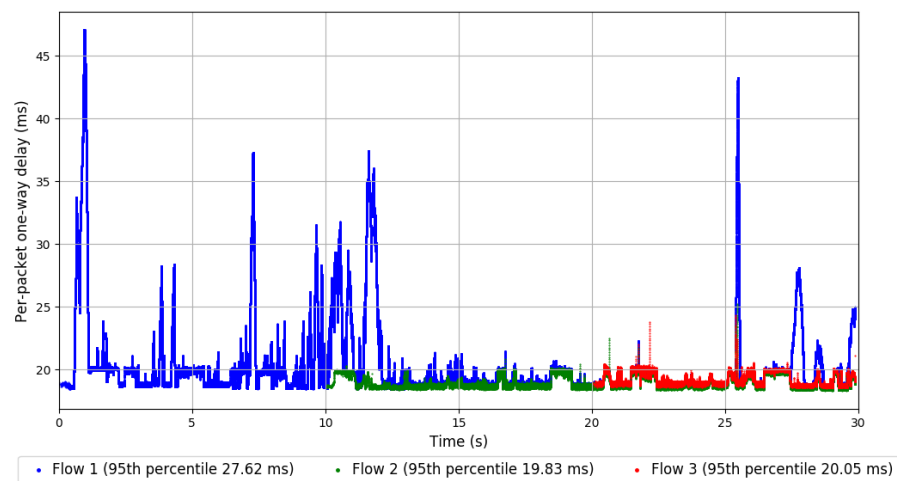
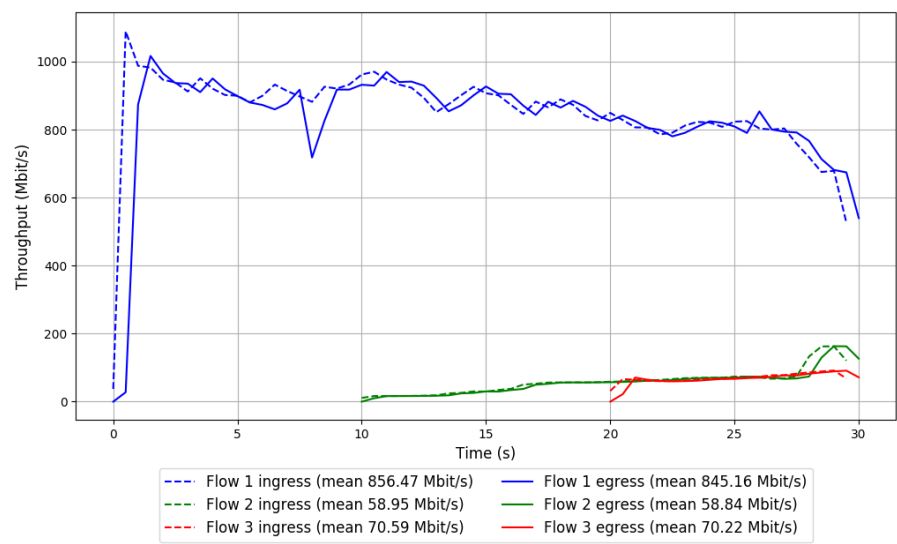
-- Flow 3:

Average throughput: 70.22 Mbit/s

95th percentile per-packet one-way delay: 20.055 ms

Loss rate: 0.51%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-22 03:34:37

End at: 2018-08-22 03:35:07

Local clock offset: 0.853 ms

Remote clock offset: 4.638 ms

Below is generated by plot.py at 2018-08-22 08:40:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 897.55 Mbit/s

95th percentile per-packet one-way delay: 30.238 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 720.59 Mbit/s

95th percentile per-packet one-way delay: 32.898 ms

Loss rate: 1.51%

-- Flow 2:

Average throughput: 215.94 Mbit/s

95th percentile per-packet one-way delay: 20.240 ms

Loss rate: 1.38%

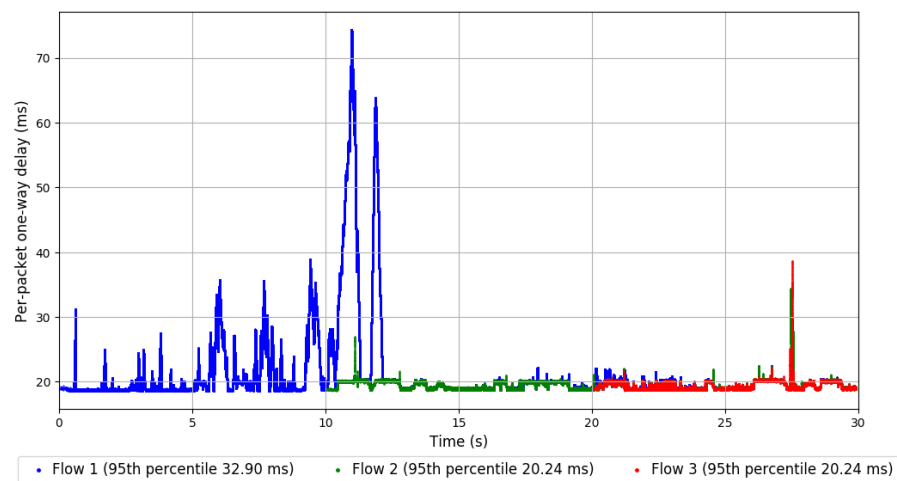
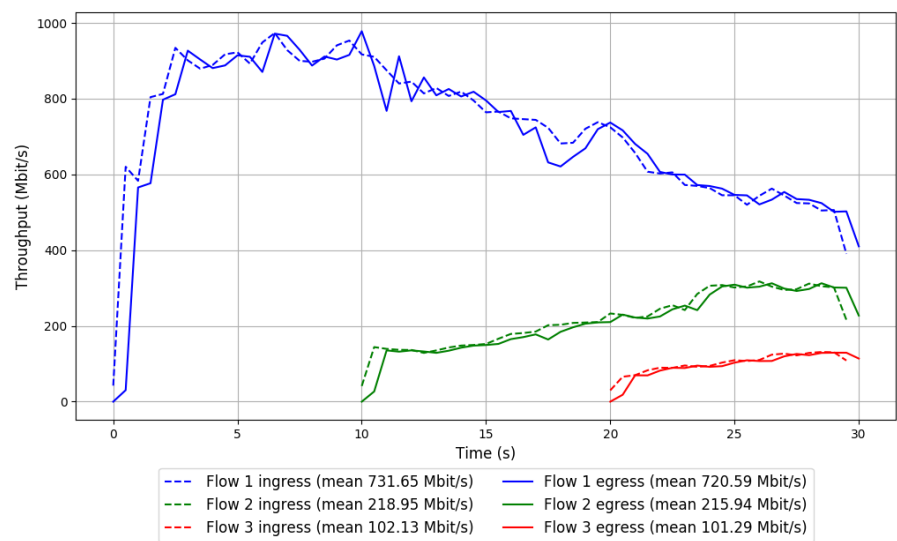
-- Flow 3:

Average throughput: 101.29 Mbit/s

95th percentile per-packet one-way delay: 20.241 ms

Loss rate: 0.83%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-22 04:02:00

End at: 2018-08-22 04:02:30

Local clock offset: -3.083 ms

Remote clock offset: 4.104 ms

Below is generated by plot.py at 2018-08-22 08:40:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 908.10 Mbit/s

95th percentile per-packet one-way delay: 20.764 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 778.58 Mbit/s

95th percentile per-packet one-way delay: 20.973 ms

Loss rate: 1.74%

-- Flow 2:

Average throughput: 111.77 Mbit/s

95th percentile per-packet one-way delay: 19.367 ms

Loss rate: 1.64%

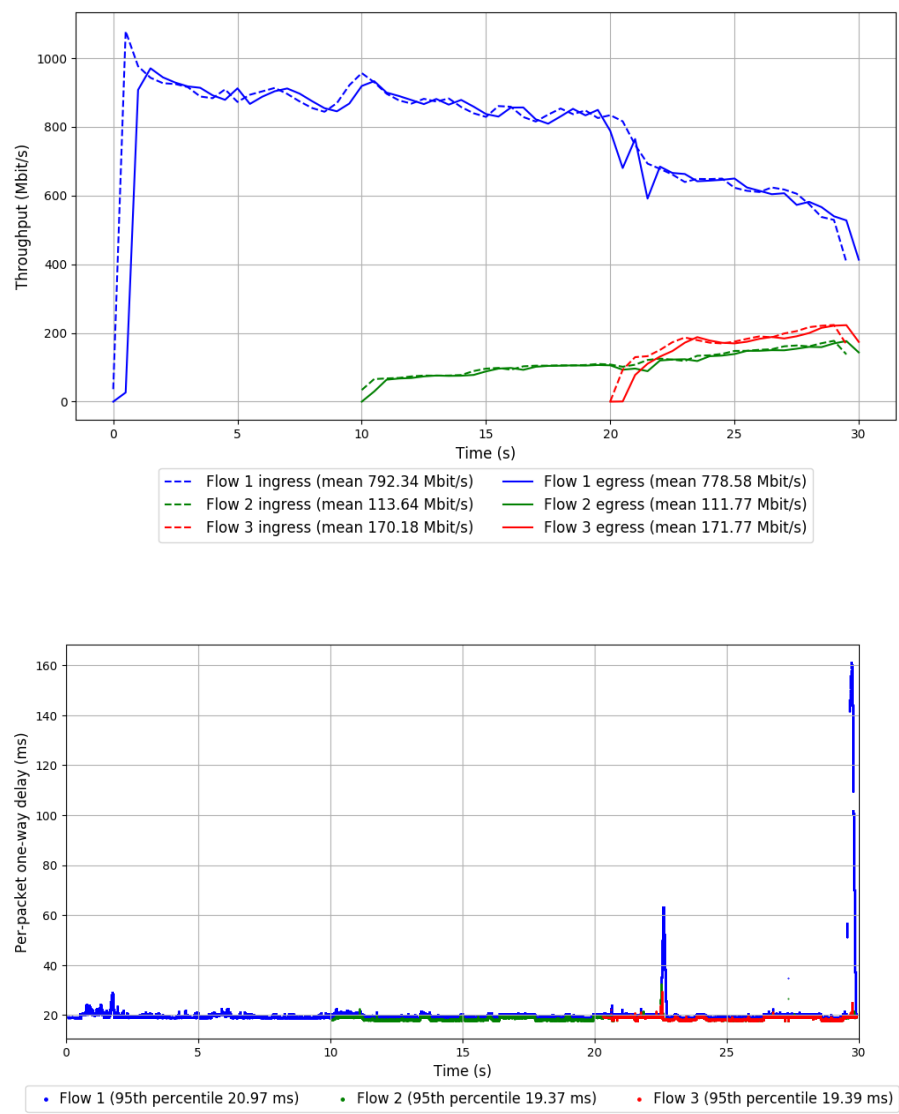
-- Flow 3:

Average throughput: 171.77 Mbit/s

95th percentile per-packet one-way delay: 19.389 ms

Loss rate: 1.65%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-22 04:29:15

End at: 2018-08-22 04:29:45

Local clock offset: -3.035 ms

Remote clock offset: 3.38 ms

Below is generated by plot.py at 2018-08-22 08:41:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 901.81 Mbit/s

95th percentile per-packet one-way delay: 19.462 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 747.43 Mbit/s

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

Loss rate: 0.68%

-- Flow 2:

Average throughput: 213.50 Mbit/s

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

Loss rate: 0.25%

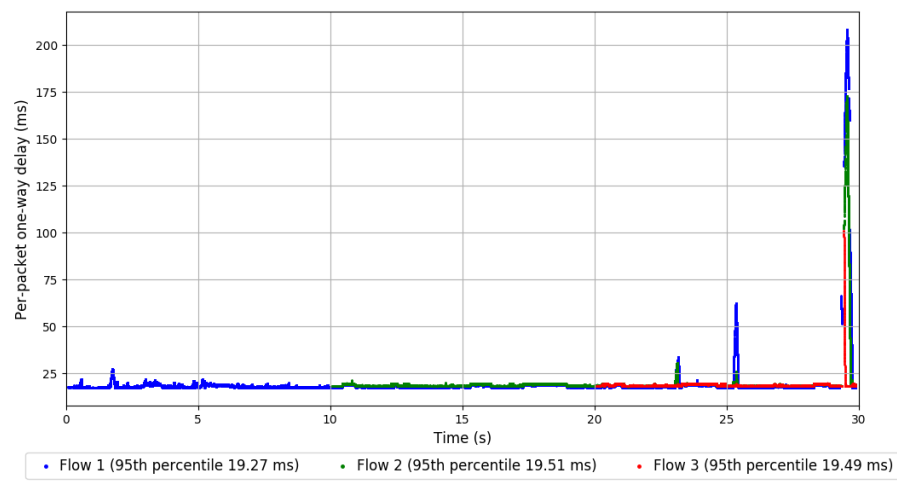
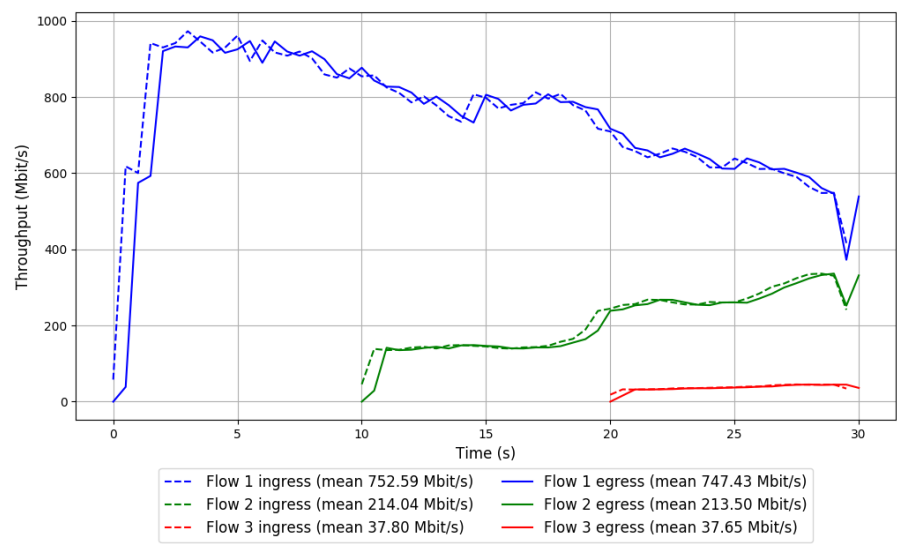
-- Flow 3:

Average throughput: 37.65 Mbit/s

95th percentile per-packet one-way delay: 19.487 ms

Loss rate: 0.41%

Run 5: Report of PCC-Allegro — Data Link

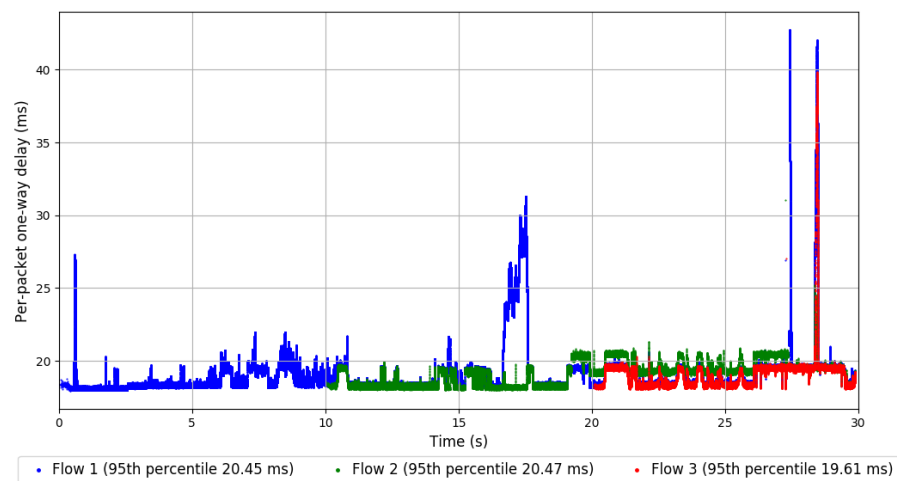
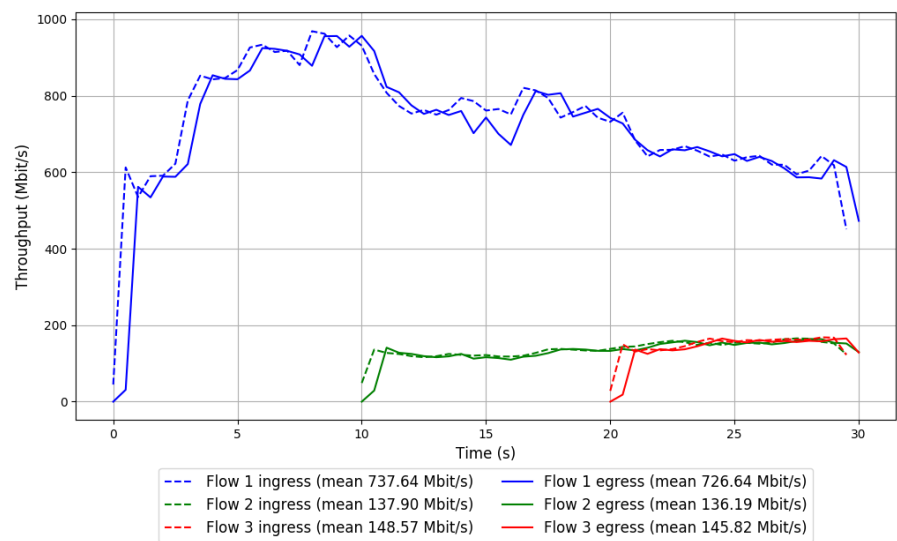


Run 6: Statistics of PCC-Allegro

Start at: 2018-08-22 04:56:31
End at: 2018-08-22 04:57:01
Local clock offset: 0.722 ms
Remote clock offset: -0.447 ms

Below is generated by plot.py at 2018-08-22 08:41:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 865.24 Mbit/s
95th percentile per-packet one-way delay: 20.436 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 726.64 Mbit/s
95th percentile per-packet one-way delay: 20.448 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 136.19 Mbit/s
95th percentile per-packet one-way delay: 20.466 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 145.82 Mbit/s
95th percentile per-packet one-way delay: 19.608 ms
Loss rate: 1.84%

Run 6: Report of PCC-Allegro — Data Link

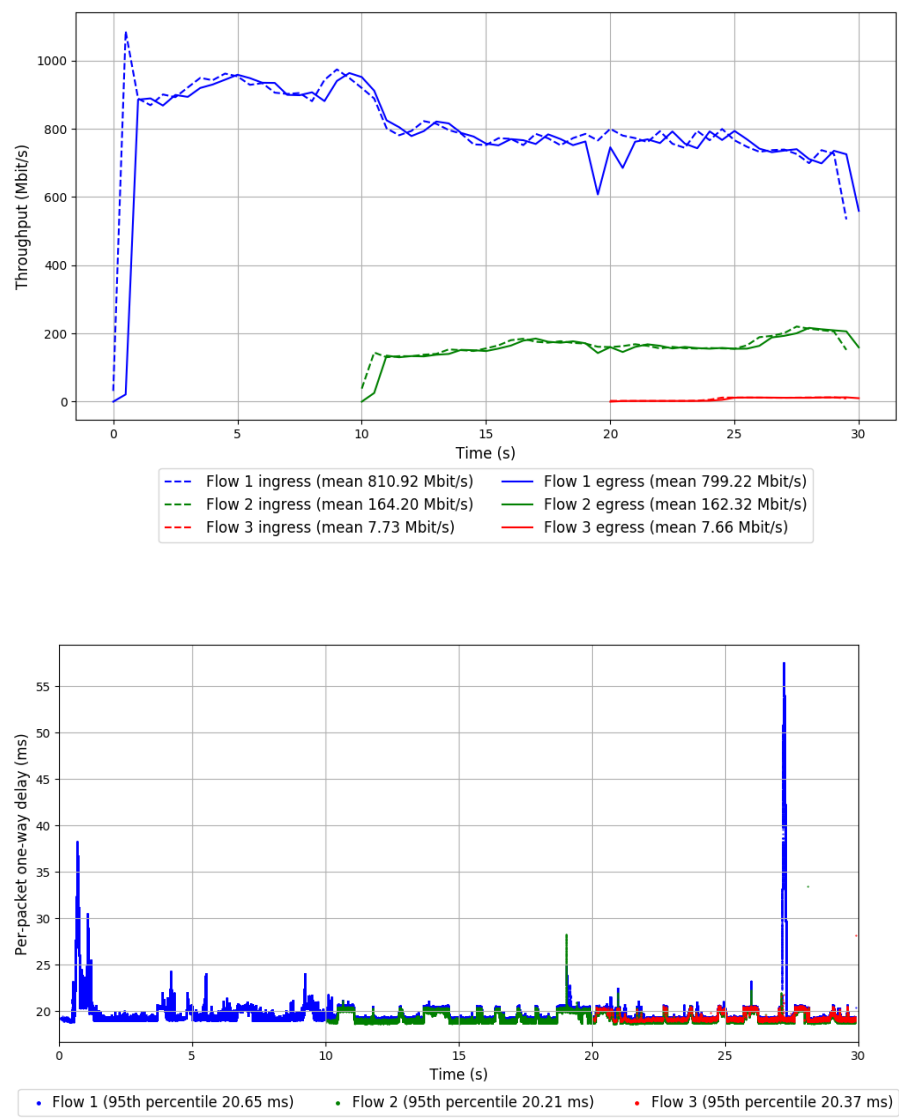


Run 7: Statistics of PCC-Allegro

Start at: 2018-08-22 05:23:49
End at: 2018-08-22 05:24:19
Local clock offset: 1.0 ms
Remote clock offset: -2.439 ms

Below is generated by plot.py at 2018-08-22 08:41:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 909.43 Mbit/s
95th percentile per-packet one-way delay: 20.581 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 799.22 Mbit/s
95th percentile per-packet one-way delay: 20.646 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 162.32 Mbit/s
95th percentile per-packet one-way delay: 20.206 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 20.372 ms
Loss rate: 0.75%

Run 7: Report of PCC-Allegro — Data Link

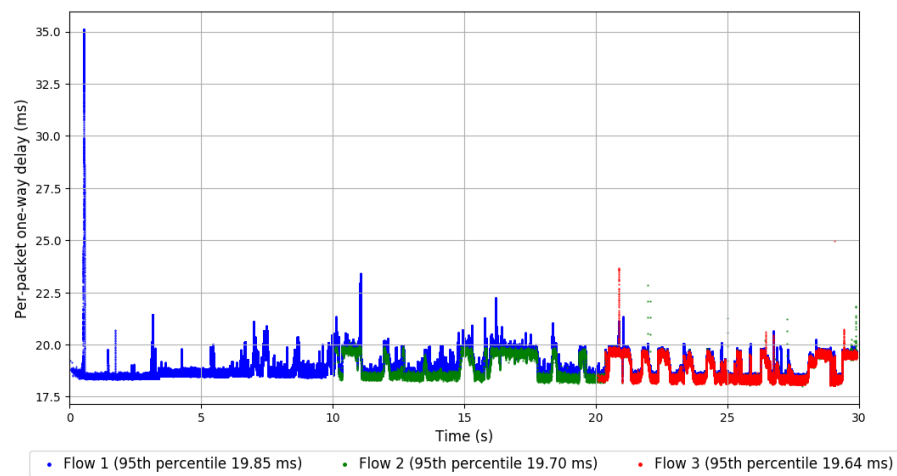
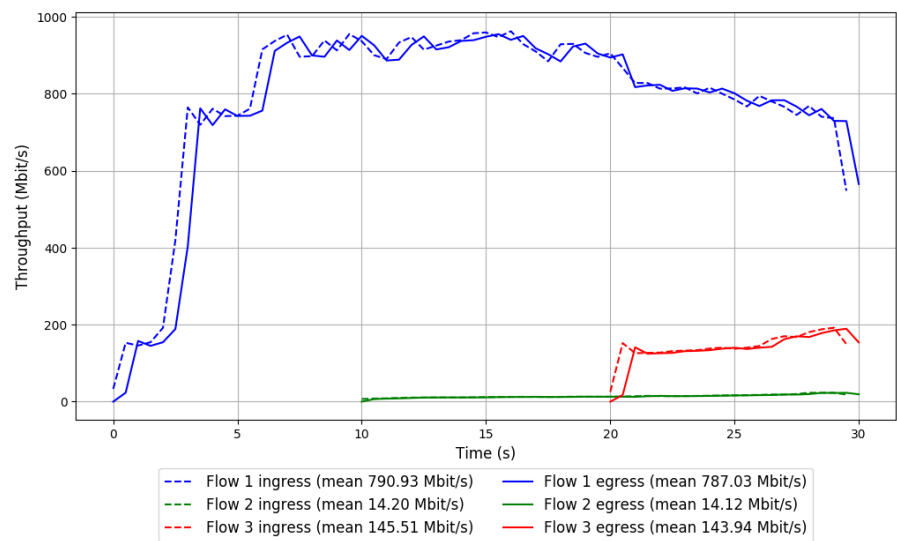


Run 8: Statistics of PCC-Allegro

Start at: 2018-08-22 05:50:59
End at: 2018-08-22 05:51:29
Local clock offset: -2.136 ms
Remote clock offset: -2.317 ms

Below is generated by plot.py at 2018-08-22 08:41:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 843.89 Mbit/s
95th percentile per-packet one-way delay: 19.844 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 787.03 Mbit/s
95th percentile per-packet one-way delay: 19.854 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 14.12 Mbit/s
95th percentile per-packet one-way delay: 19.696 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 143.94 Mbit/s
95th percentile per-packet one-way delay: 19.636 ms
Loss rate: 1.07%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-22 06:17:58

End at: 2018-08-22 06:18:28

Local clock offset: -0.208 ms

Remote clock offset: 4.381 ms

Below is generated by plot.py at 2018-08-22 08:47:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 804.86 Mbit/s

95th percentile per-packet one-way delay: 20.024 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 634.24 Mbit/s

95th percentile per-packet one-way delay: 19.621 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 225.20 Mbit/s

95th percentile per-packet one-way delay: 20.284 ms

Loss rate: 0.54%

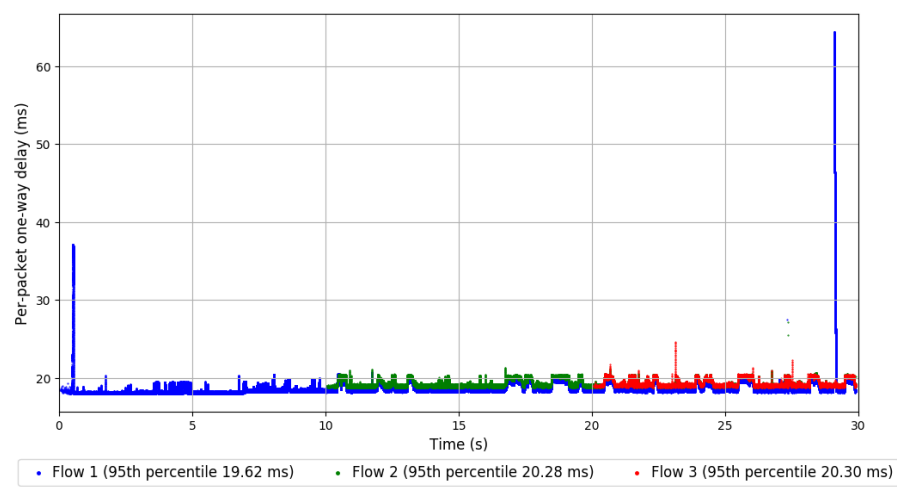
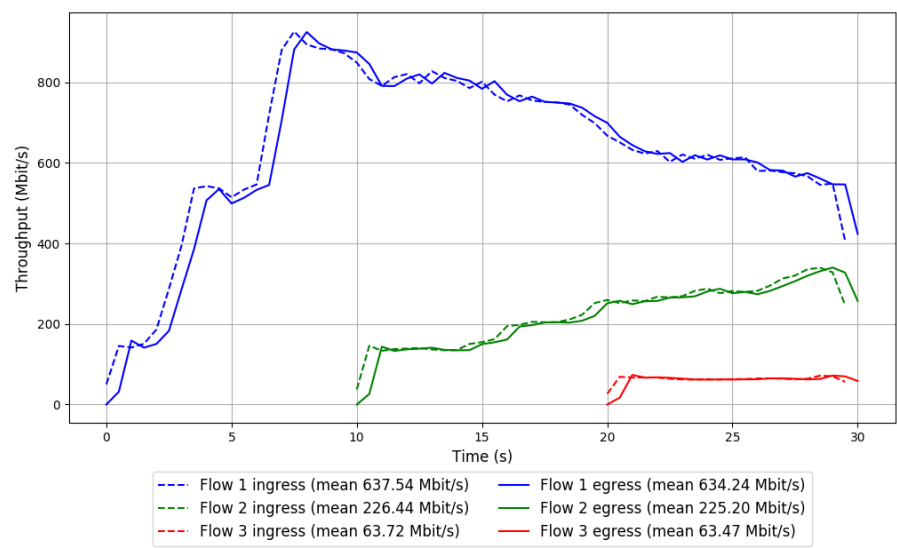
-- Flow 3:

Average throughput: 63.47 Mbit/s

95th percentile per-packet one-way delay: 20.299 ms

Loss rate: 0.39%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-08-22 06:44:49

End at: 2018-08-22 06:45:19

Local clock offset: 0.893 ms

Remote clock offset: 6.258 ms

Below is generated by plot.py at 2018-08-22 08:49:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 815.14 Mbit/s

95th percentile per-packet one-way delay: 20.192 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 676.40 Mbit/s

95th percentile per-packet one-way delay: 20.211 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 168.08 Mbit/s

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

Loss rate: 0.49%

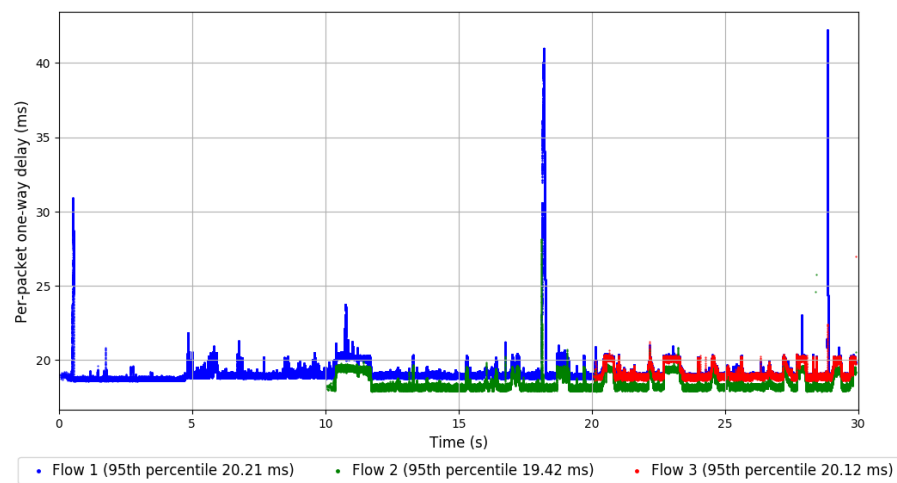
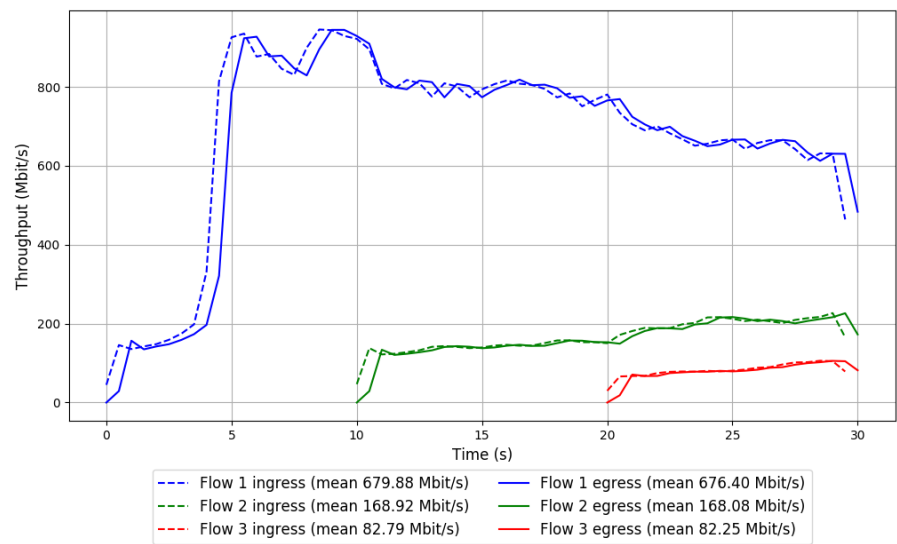
-- Flow 3:

Average throughput: 82.25 Mbit/s

95th percentile per-packet one-way delay: 20.125 ms

Loss rate: 0.58%

Run 10: Report of PCC-Allegro — Data Link

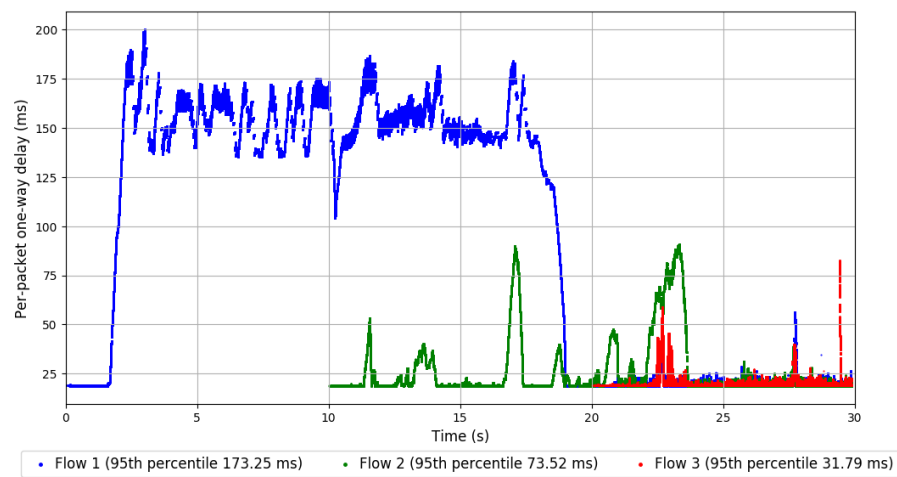
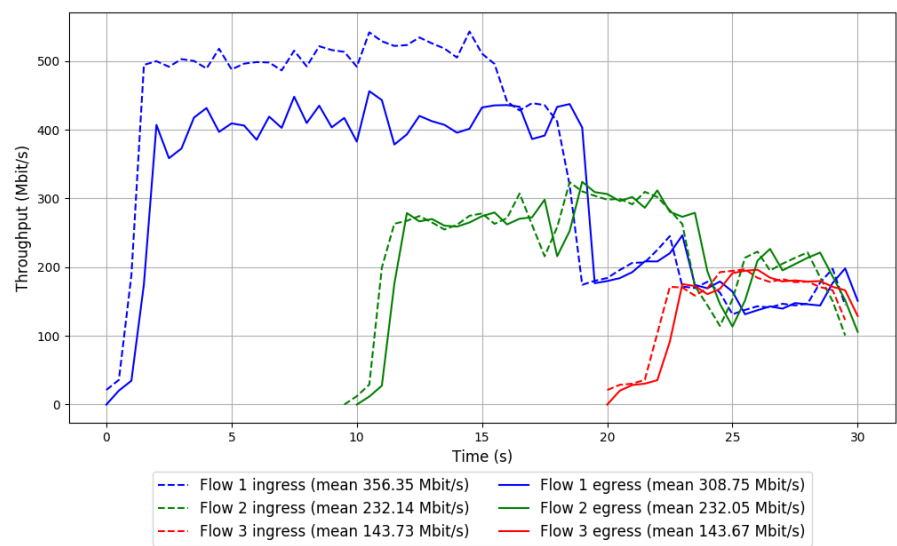


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-22 02:34:47
End at: 2018-08-22 02:35:17
Local clock offset: 1.409 ms
Remote clock offset: 0.209 ms

# Below is generated by plot.py at 2018-08-22 08:51:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 510.65 Mbit/s
95th percentile per-packet one-way delay: 169.249 ms
Loss rate: 8.54%
-- Flow 1:
Average throughput: 308.75 Mbit/s
95th percentile per-packet one-way delay: 173.246 ms
Loss rate: 13.36%
-- Flow 2:
Average throughput: 232.05 Mbit/s
95th percentile per-packet one-way delay: 73.522 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 143.67 Mbit/s
95th percentile per-packet one-way delay: 31.787 ms
Loss rate: 0.06%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-08-22 03:02:08

End at: 2018-08-22 03:02:38

Local clock offset: 1.796 ms

Remote clock offset: 1.781 ms

Below is generated by plot.py at 2018-08-22 08:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 515.29 Mbit/s

95th percentile per-packet one-way delay: 185.408 ms

Loss rate: 4.48%

-- Flow 1:

Average throughput: 329.11 Mbit/s

95th percentile per-packet one-way delay: 209.259 ms

Loss rate: 6.63%

-- Flow 2:

Average throughput: 248.32 Mbit/s

95th percentile per-packet one-way delay: 138.661 ms

Loss rate: 0.45%

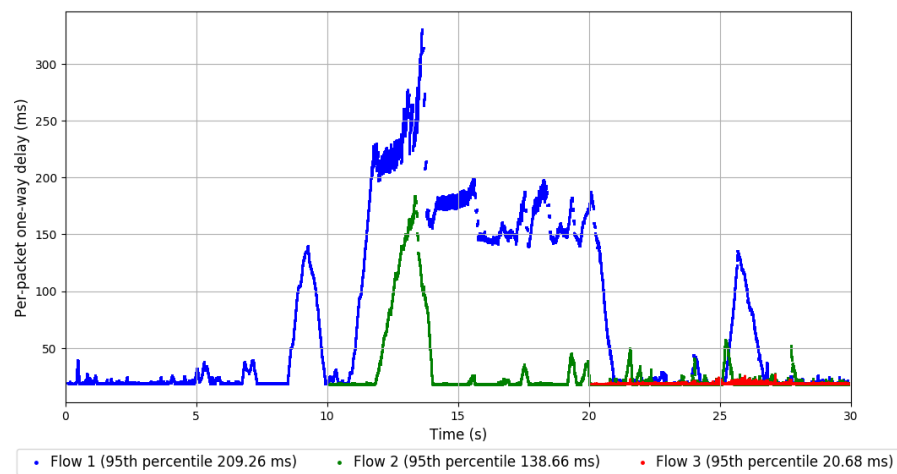
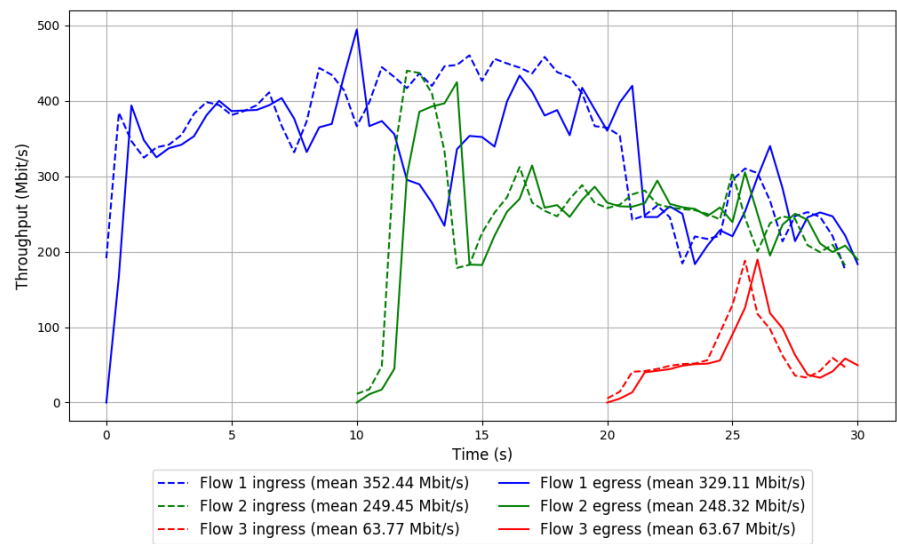
-- Flow 3:

Average throughput: 63.67 Mbit/s

95th percentile per-packet one-way delay: 20.683 ms

Loss rate: 0.17%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-08-22 03:29:31

End at: 2018-08-22 03:30:01

Local clock offset: 0.848 ms

Remote clock offset: 4.944 ms

Below is generated by plot.py at 2018-08-22 08:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 473.75 Mbit/s

95th percentile per-packet one-way delay: 165.611 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 269.09 Mbit/s

95th percentile per-packet one-way delay: 165.407 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 269.90 Mbit/s

95th percentile per-packet one-way delay: 169.407 ms

Loss rate: 0.32%

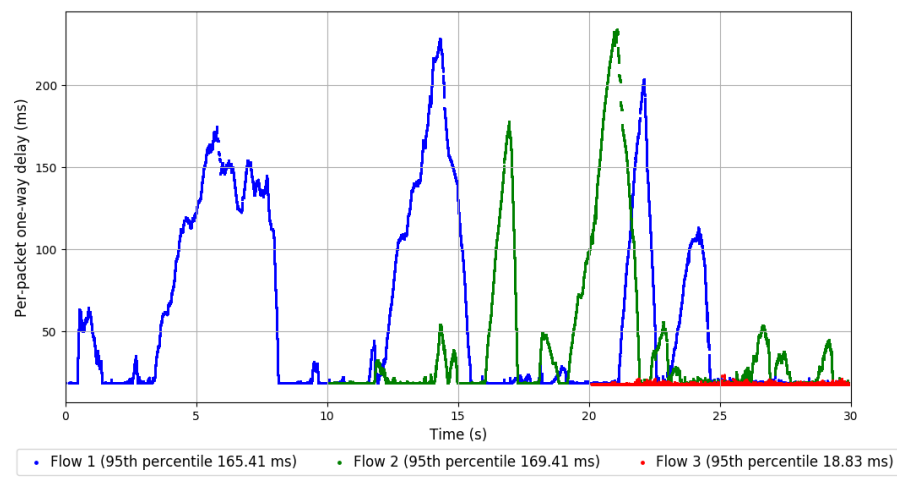
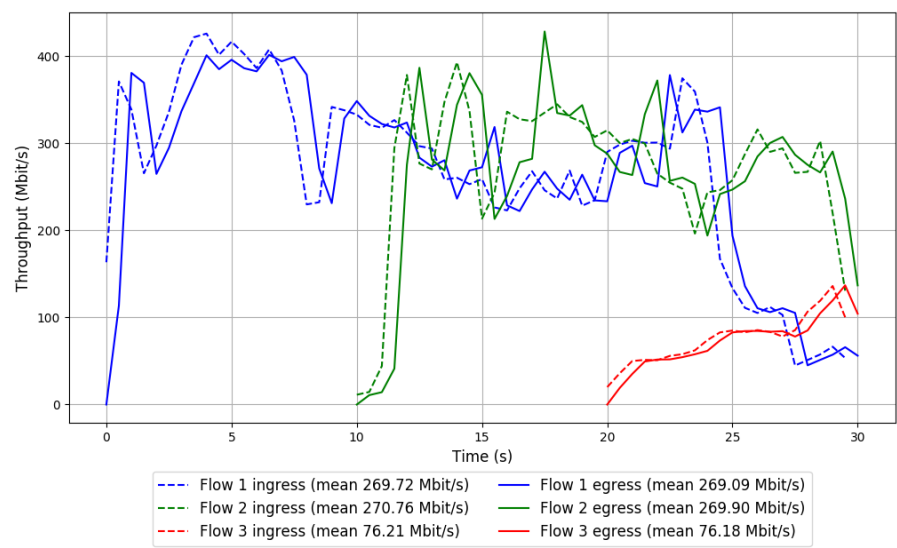
-- Flow 3:

Average throughput: 76.18 Mbit/s

95th percentile per-packet one-way delay: 18.833 ms

Loss rate: 0.04%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-08-22 03:56:49

End at: 2018-08-22 03:57:19

Local clock offset: -2.722 ms

Remote clock offset: 3.994 ms

Below is generated by plot.py at 2018-08-22 08:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 463.76 Mbit/s

95th percentile per-packet one-way delay: 254.312 ms

Loss rate: 12.53%

-- Flow 1:

Average throughput: 283.66 Mbit/s

95th percentile per-packet one-way delay: 259.284 ms

Loss rate: 12.28%

-- Flow 2:

Average throughput: 208.13 Mbit/s

95th percentile per-packet one-way delay: 245.051 ms

Loss rate: 16.13%

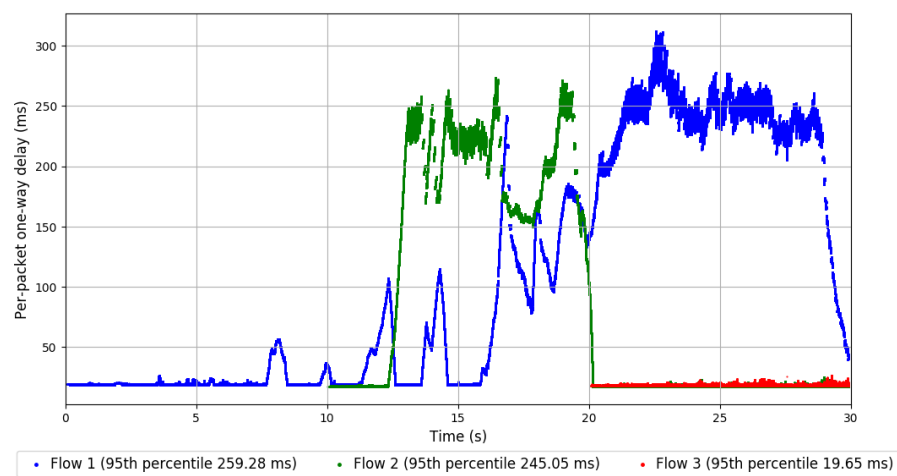
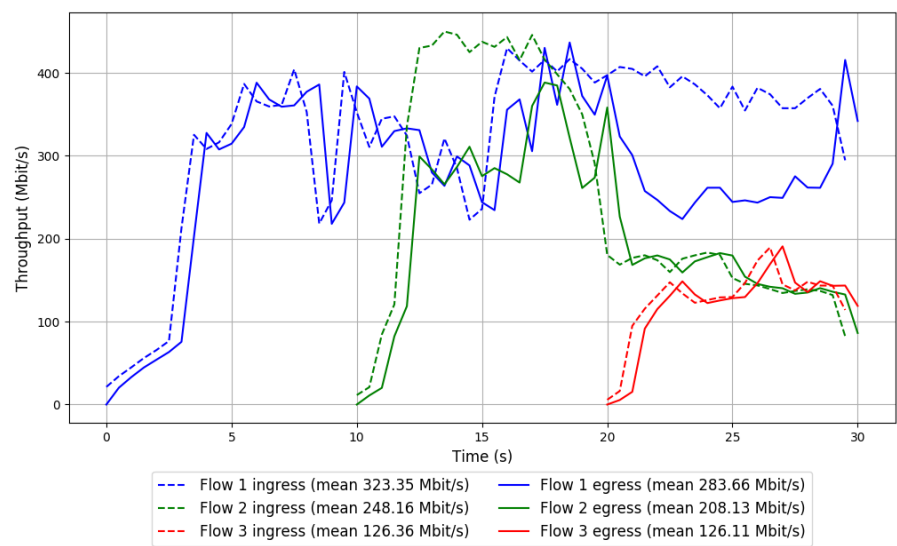
-- Flow 3:

Average throughput: 126.11 Mbit/s

95th percentile per-packet one-way delay: 19.652 ms

Loss rate: 0.20%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-08-22 04:24:08

End at: 2018-08-22 04:24:38

Local clock offset: -2.968 ms

Remote clock offset: 3.348 ms

Below is generated by plot.py at 2018-08-22 08:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 458.82 Mbit/s

95th percentile per-packet one-way delay: 135.219 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 268.17 Mbit/s

95th percentile per-packet one-way delay: 152.327 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 228.61 Mbit/s

95th percentile per-packet one-way delay: 27.023 ms

Loss rate: 0.08%

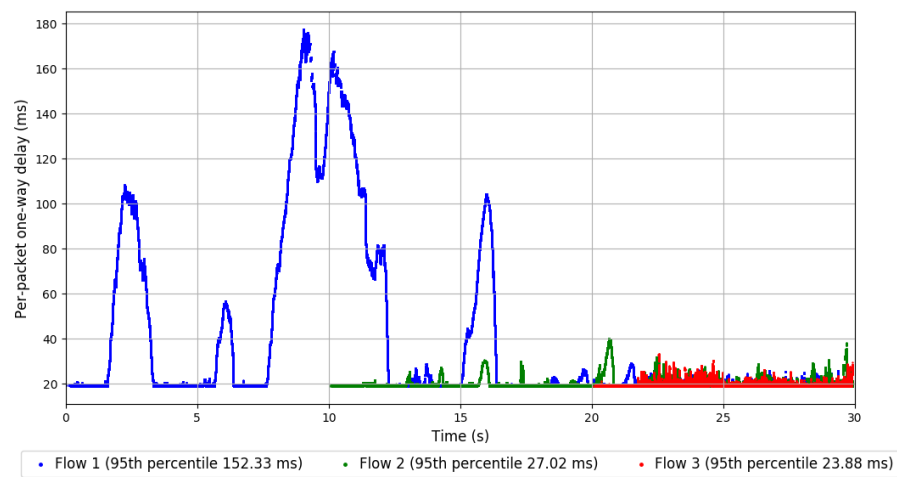
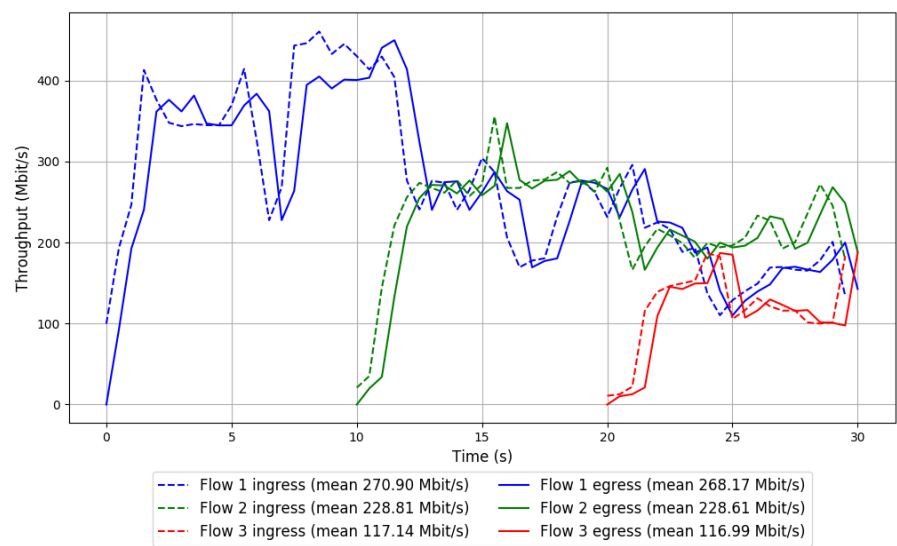
-- Flow 3:

Average throughput: 116.99 Mbit/s

95th percentile per-packet one-way delay: 23.882 ms

Loss rate: 0.12%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-08-22 04:51:22

End at: 2018-08-22 04:51:52

Local clock offset: 0.263 ms

Remote clock offset: 0.299 ms

Below is generated by plot.py at 2018-08-22 08:52:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 472.29 Mbit/s

95th percentile per-packet one-way delay: 176.218 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 302.20 Mbit/s

95th percentile per-packet one-way delay: 189.347 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 217.66 Mbit/s

95th percentile per-packet one-way delay: 151.529 ms

Loss rate: 1.18%

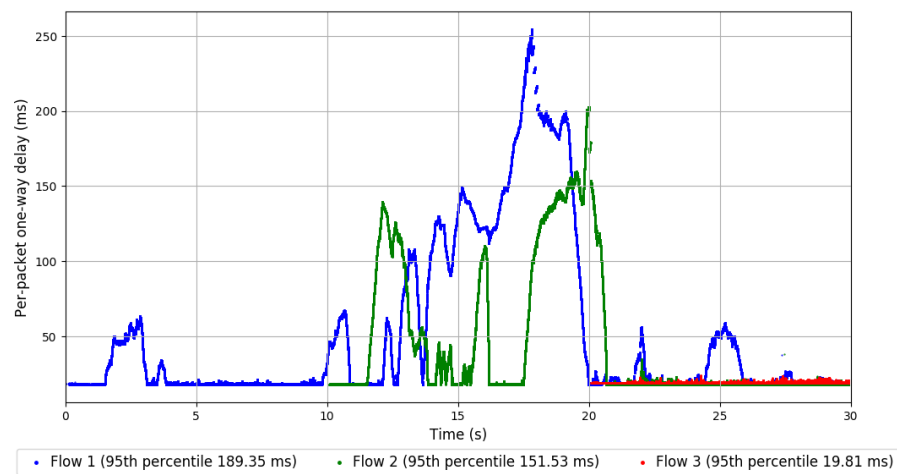
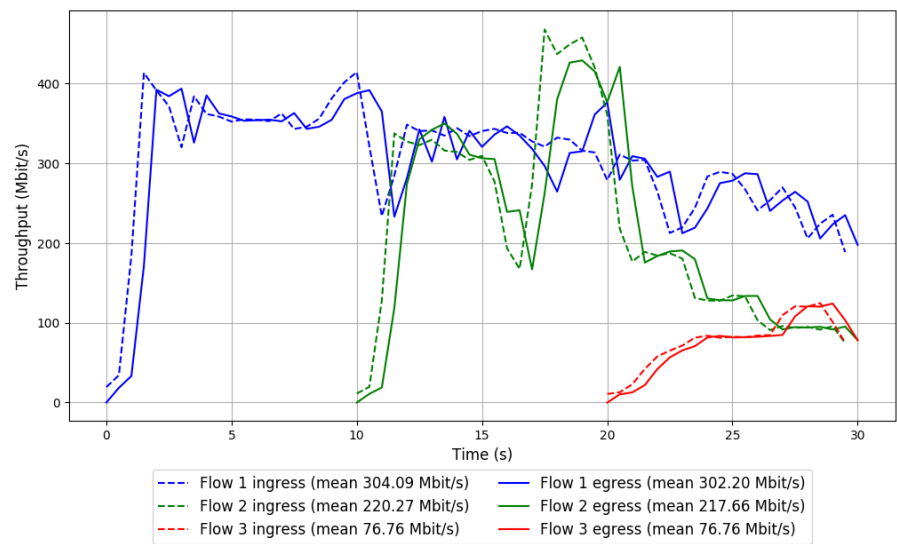
-- Flow 3:

Average throughput: 76.76 Mbit/s

95th percentile per-packet one-way delay: 19.810 ms

Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link

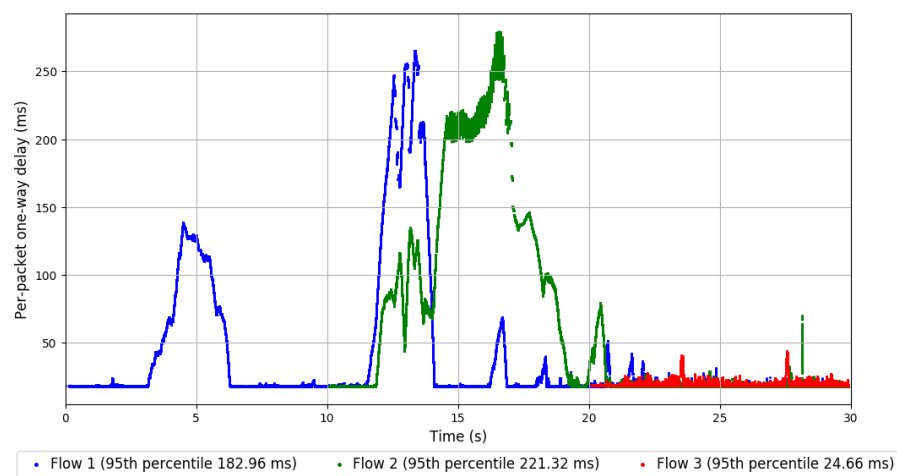
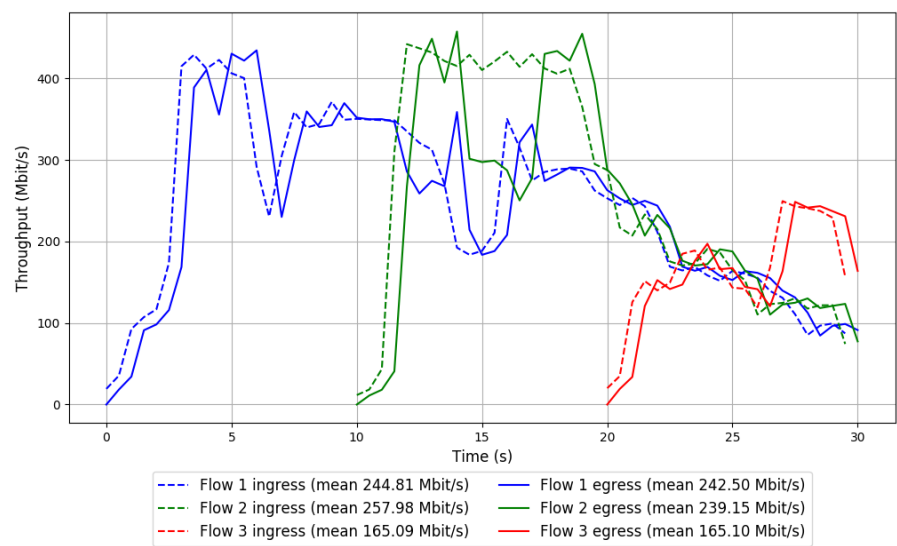


Run 7: Statistics of PCC-Expr

Start at: 2018-08-22 05:18:41
End at: 2018-08-22 05:19:11
Local clock offset: 0.913 ms
Remote clock offset: -2.161 ms

Below is generated by plot.py at 2018-08-22 08:58:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 456.04 Mbit/s
95th percentile per-packet one-way delay: 210.631 ms
Loss rate: 3.15%
-- Flow 1:
Average throughput: 242.50 Mbit/s
95th percentile per-packet one-way delay: 182.961 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 239.15 Mbit/s
95th percentile per-packet one-way delay: 221.321 ms
Loss rate: 7.30%
-- Flow 3:
Average throughput: 165.10 Mbit/s
95th percentile per-packet one-way delay: 24.659 ms
Loss rate: 0.01%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-08-22 05:45:51

End at: 2018-08-22 05:46:21

Local clock offset: -1.293 ms

Remote clock offset: -3.73 ms

Below is generated by plot.py at 2018-08-22 08:59:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 435.14 Mbit/s

95th percentile per-packet one-way delay: 79.905 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 258.33 Mbit/s

95th percentile per-packet one-way delay: 51.829 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 233.79 Mbit/s

95th percentile per-packet one-way delay: 144.092 ms

Loss rate: 0.46%

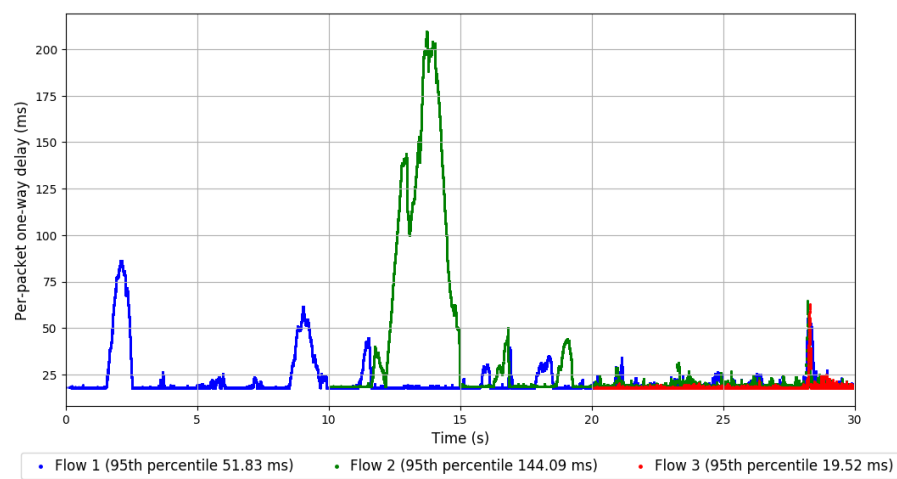
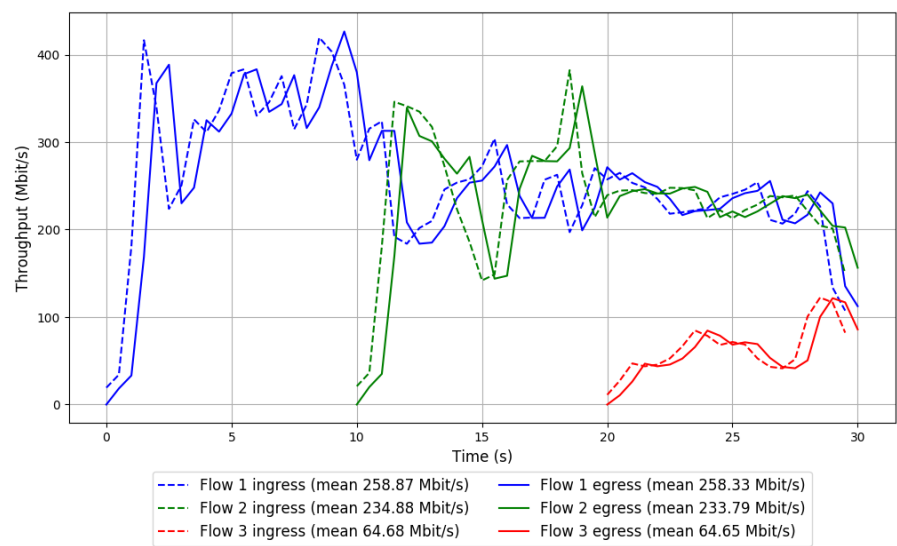
-- Flow 3:

Average throughput: 64.65 Mbit/s

95th percentile per-packet one-way delay: 19.515 ms

Loss rate: 0.04%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-08-22 06:12:53

End at: 2018-08-22 06:13:23

Local clock offset: -1.192 ms

Remote clock offset: 3.81 ms

Below is generated by plot.py at 2018-08-22 09:01:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 457.19 Mbit/s

95th percentile per-packet one-way delay: 86.638 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 274.55 Mbit/s

95th percentile per-packet one-way delay: 78.586 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 231.93 Mbit/s

95th percentile per-packet one-way delay: 92.399 ms

Loss rate: 0.02%

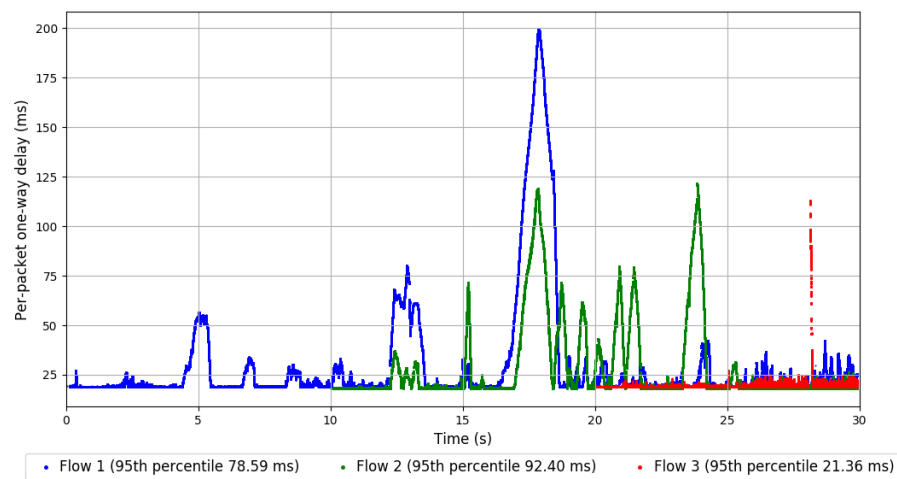
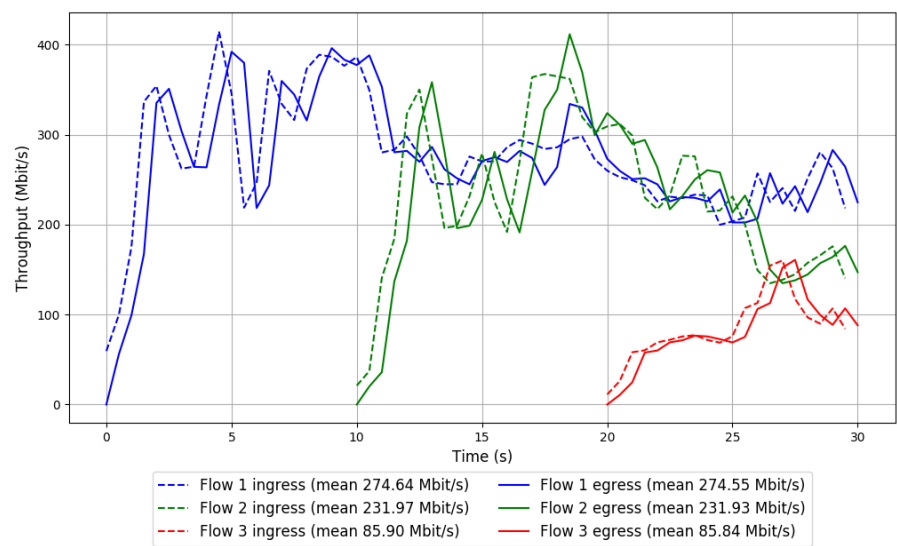
-- Flow 3:

Average throughput: 85.84 Mbit/s

95th percentile per-packet one-way delay: 21.360 ms

Loss rate: 0.08%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-08-22 06:39:39

End at: 2018-08-22 06:40:09

Local clock offset: 1.137 ms

Remote clock offset: 5.885 ms

Below is generated by plot.py at 2018-08-22 09:01:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 479.72 Mbit/s

95th percentile per-packet one-way delay: 114.603 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 313.91 Mbit/s

95th percentile per-packet one-way delay: 124.048 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 209.75 Mbit/s

95th percentile per-packet one-way delay: 106.887 ms

Loss rate: 2.25%

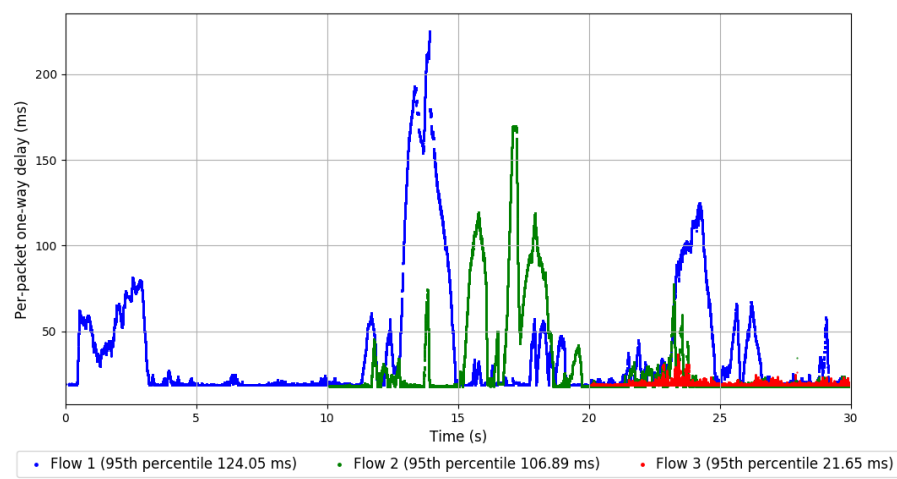
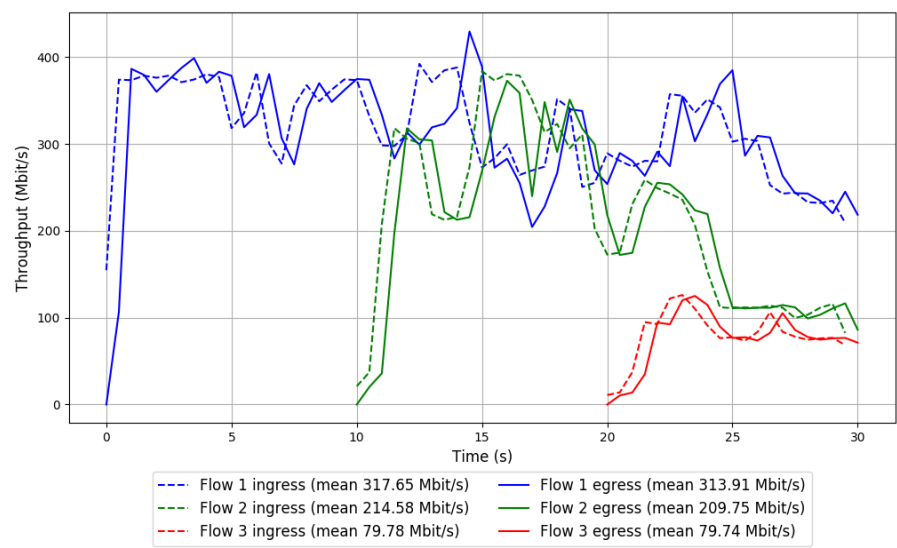
-- Flow 3:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 21.654 ms

Loss rate: 0.05%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-08-22 02:44:52

End at: 2018-08-22 02:45:22

Local clock offset: 1.428 ms

Remote clock offset: 0.486 ms

Below is generated by plot.py at 2018-08-22 09:01:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.77 Mbit/s

95th percentile per-packet one-way delay: 18.947 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 18.141 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.67 Mbit/s

95th percentile per-packet one-way delay: 18.945 ms

Loss rate: 0.00%

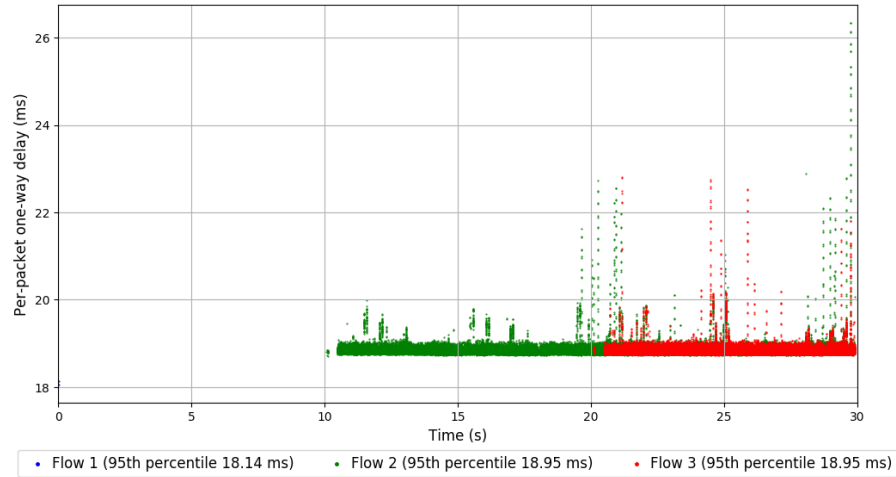
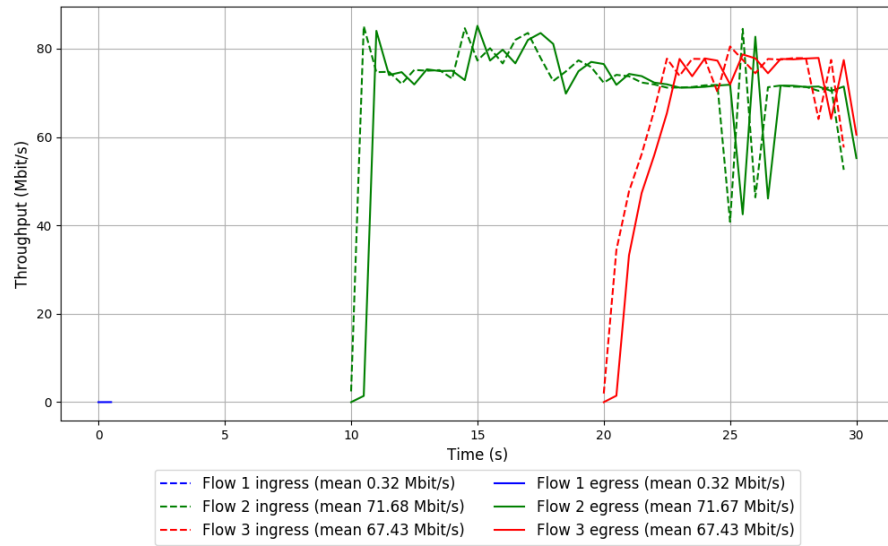
-- Flow 3:

Average throughput: 67.43 Mbit/s

95th percentile per-packet one-way delay: 18.952 ms

Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-08-22 03:12:16

End at: 2018-08-22 03:12:46

Local clock offset: 1.417 ms

Remote clock offset: 3.373 ms

Below is generated by plot.py at 2018-08-22 09:01:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.76 Mbit/s

95th percentile per-packet one-way delay: 20.118 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.62 Mbit/s

95th percentile per-packet one-way delay: 20.087 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.08 Mbit/s

95th percentile per-packet one-way delay: 18.032 ms

Loss rate: 0.00%

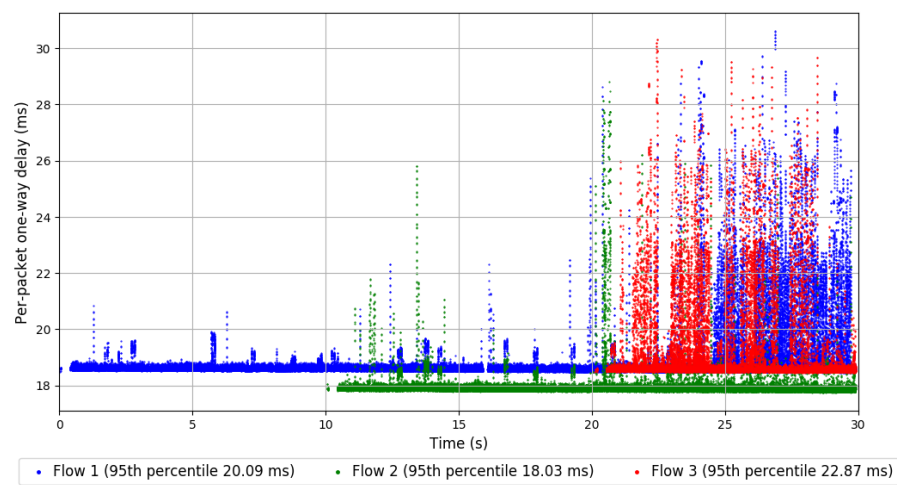
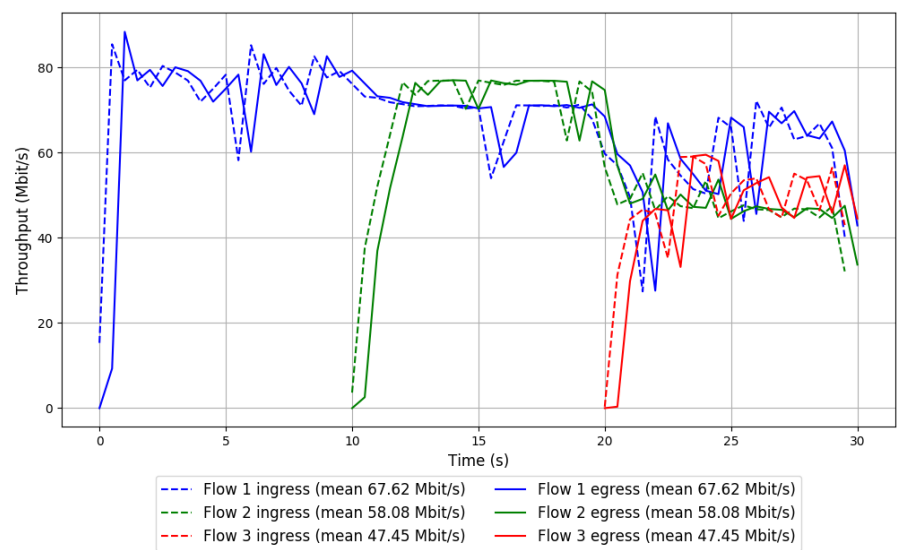
-- Flow 3:

Average throughput: 47.45 Mbit/s

95th percentile per-packet one-way delay: 22.871 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

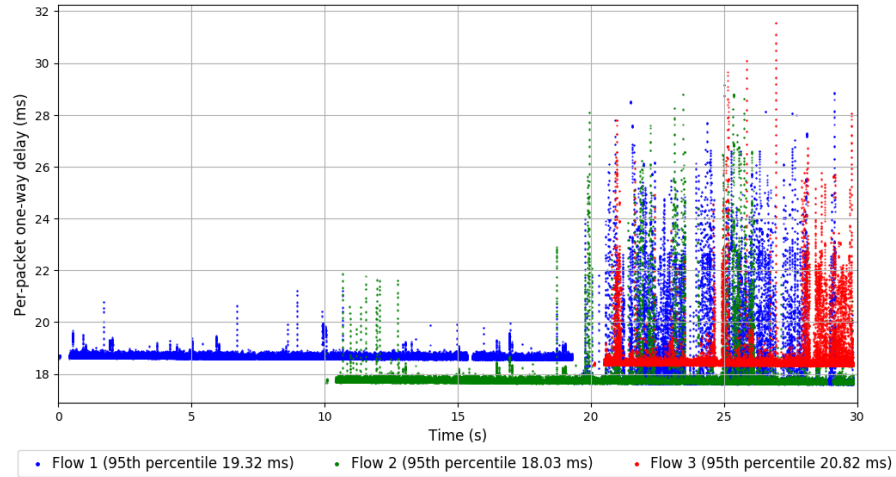
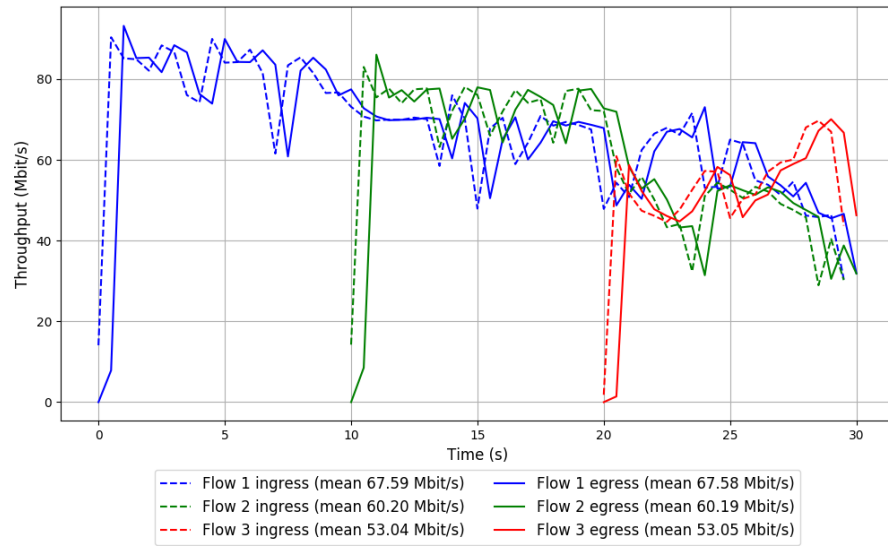


Run 3: Statistics of QUIC Cubic

Start at: 2018-08-22 03:39:29
End at: 2018-08-22 03:39:59
Local clock offset: 0.068 ms
Remote clock offset: 4.083 ms

Below is generated by plot.py at 2018-08-22 09:01:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 125.01 Mbit/s
95th percentile per-packet one-way delay: 19.259 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 67.58 Mbit/s
95th percentile per-packet one-way delay: 19.320 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 60.19 Mbit/s
95th percentile per-packet one-way delay: 18.027 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 53.05 Mbit/s
95th percentile per-packet one-way delay: 20.822 ms
Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-22 04:06:56

End at: 2018-08-22 04:07:26

Local clock offset: -3.44 ms

Remote clock offset: 4.26 ms

Below is generated by plot.py at 2018-08-22 09:01:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.85 Mbit/s

95th percentile per-packet one-way delay: 20.621 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 67.57 Mbit/s

95th percentile per-packet one-way delay: 18.869 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.19 Mbit/s

95th percentile per-packet one-way delay: 22.492 ms

Loss rate: 0.01%

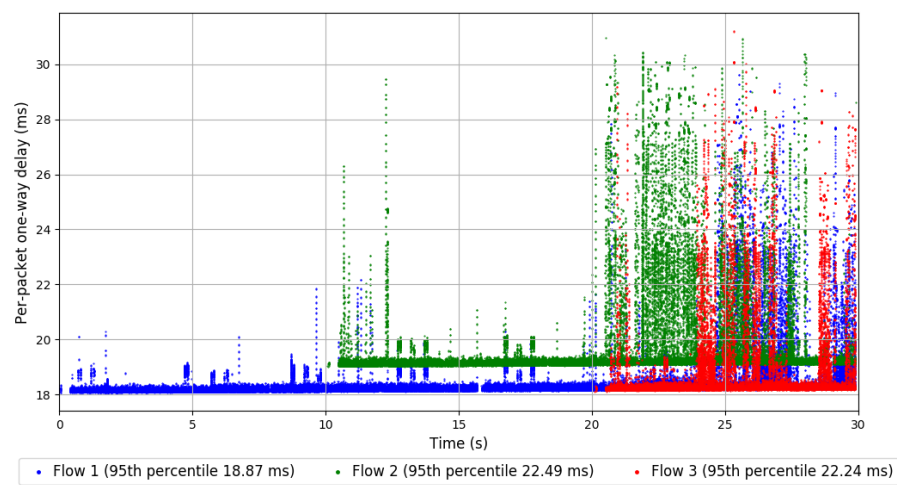
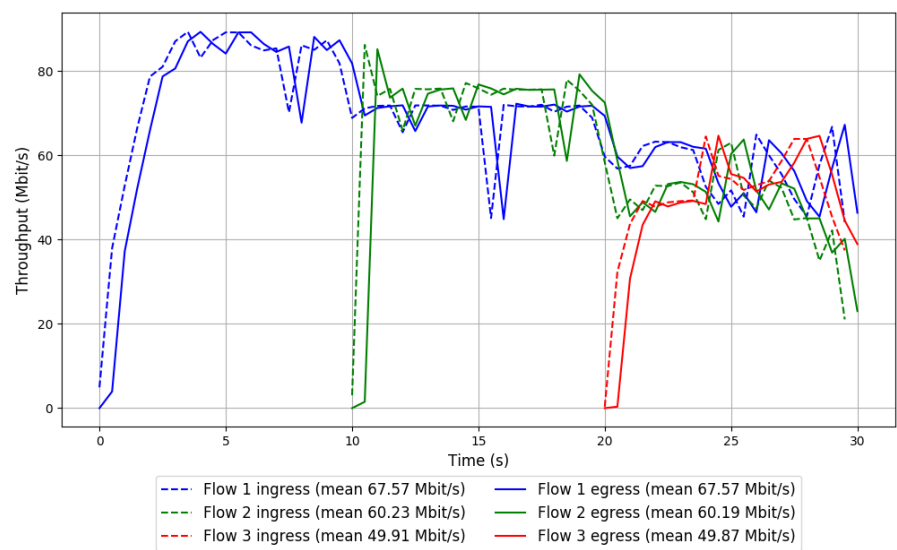
-- Flow 3:

Average throughput: 49.87 Mbit/s

95th percentile per-packet one-way delay: 22.240 ms

Loss rate: 0.06%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-08-22 04:34:07

End at: 2018-08-22 04:34:37

Local clock offset: -3.02 ms

Remote clock offset: 3.54 ms

Below is generated by plot.py at 2018-08-22 09:01:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.60 Mbit/s

95th percentile per-packet one-way delay: 20.214 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 64.54 Mbit/s

95th percentile per-packet one-way delay: 21.318 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 61.71 Mbit/s

95th percentile per-packet one-way delay: 18.291 ms

Loss rate: 0.07%

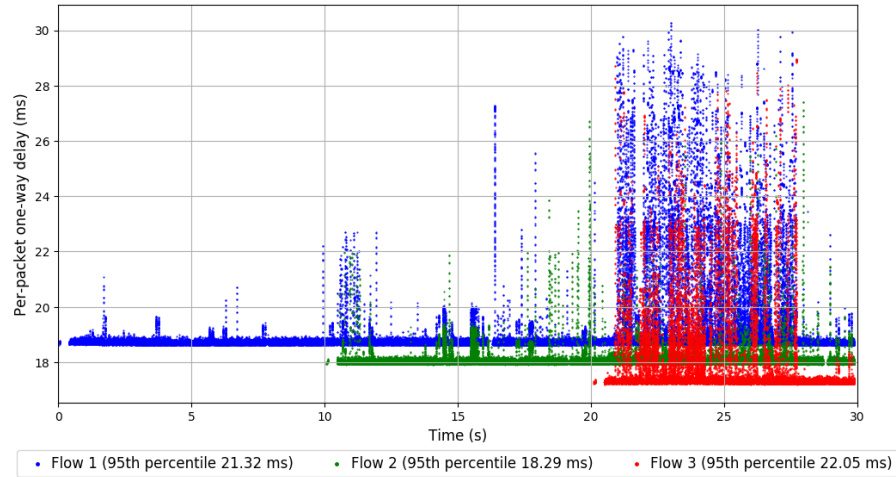
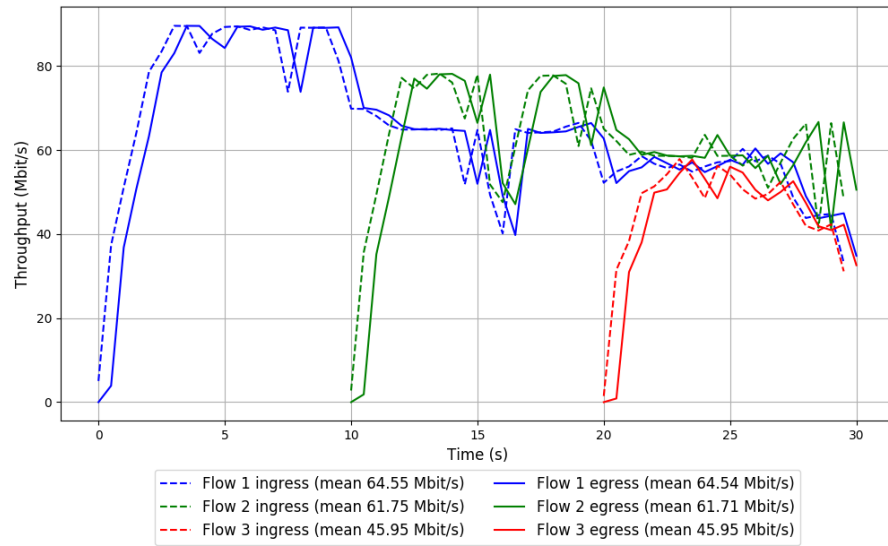
-- Flow 3:

Average throughput: 45.95 Mbit/s

95th percentile per-packet one-way delay: 22.047 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

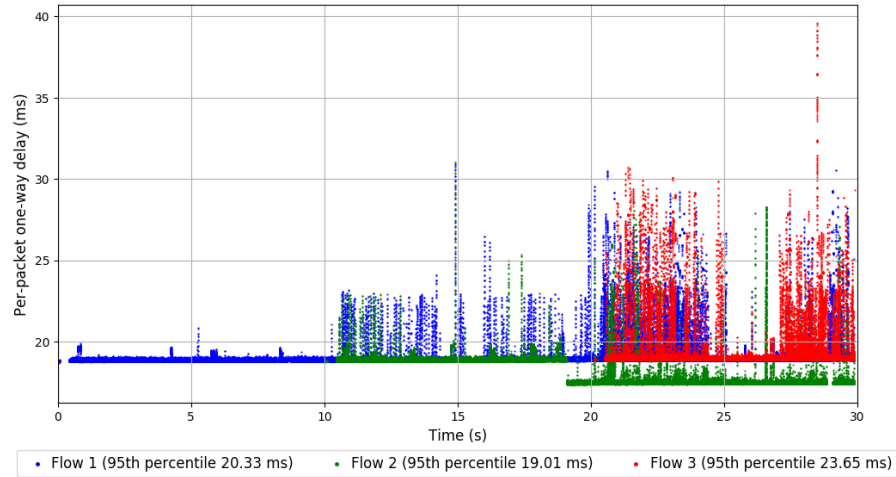
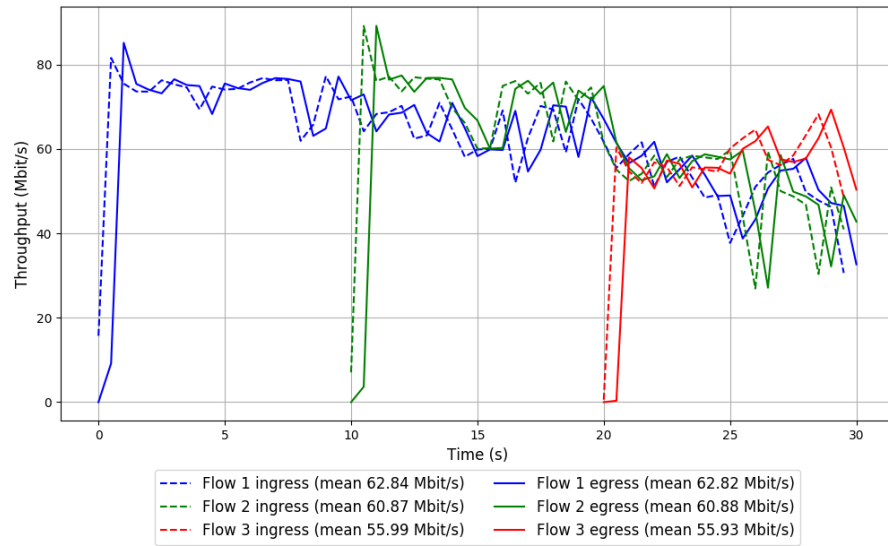


Run 6: Statistics of QUIC Cubic

Start at: 2018-08-22 05:01:23
End at: 2018-08-22 05:01:53
Local clock offset: 0.961 ms
Remote clock offset: -0.872 ms

Below is generated by plot.py at 2018-08-22 09:01:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 121.59 Mbit/s
95th percentile per-packet one-way delay: 20.689 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.82 Mbit/s
95th percentile per-packet one-way delay: 20.333 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.88 Mbit/s
95th percentile per-packet one-way delay: 19.006 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 55.93 Mbit/s
95th percentile per-packet one-way delay: 23.647 ms
Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

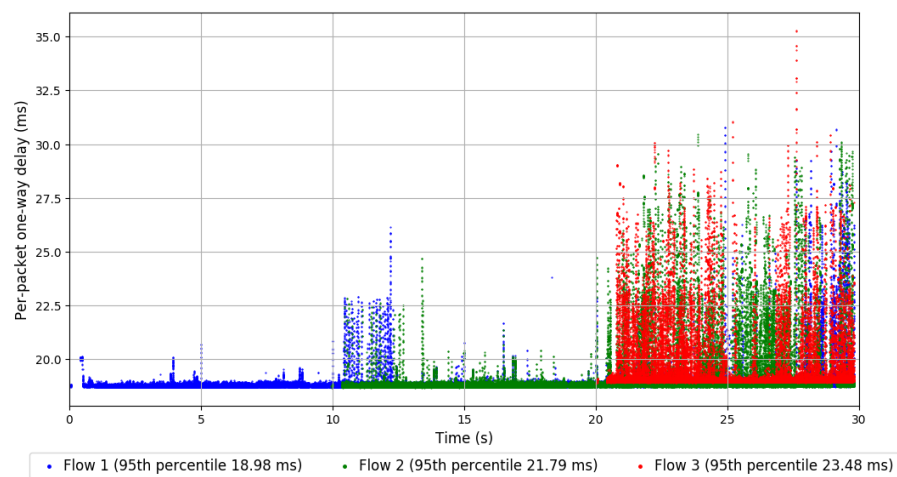
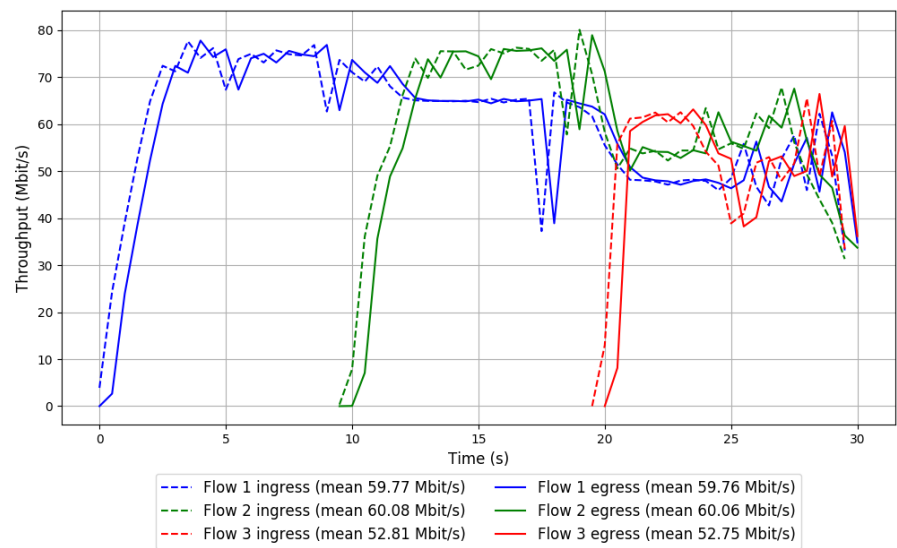


Run 7: Statistics of QUIC Cubic

Start at: 2018-08-22 05:28:43
End at: 2018-08-22 05:29:13
Local clock offset: 1.032 ms
Remote clock offset: -2.693 ms

Below is generated by plot.py at 2018-08-22 09:01:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 117.12 Mbit/s
95th percentile per-packet one-way delay: 21.130 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 59.76 Mbit/s
95th percentile per-packet one-way delay: 18.979 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 60.06 Mbit/s
95th percentile per-packet one-way delay: 21.791 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 52.75 Mbit/s
95th percentile per-packet one-way delay: 23.476 ms
Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-22 05:55:51

End at: 2018-08-22 05:56:21

Local clock offset: -2.526 ms

Remote clock offset: 0.282 ms

Below is generated by plot.py at 2018-08-22 09:01:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.19 Mbit/s

95th percentile per-packet one-way delay: 20.747 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 68.98 Mbit/s

95th percentile per-packet one-way delay: 19.267 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 56.13 Mbit/s

95th percentile per-packet one-way delay: 21.818 ms

Loss rate: 0.14%

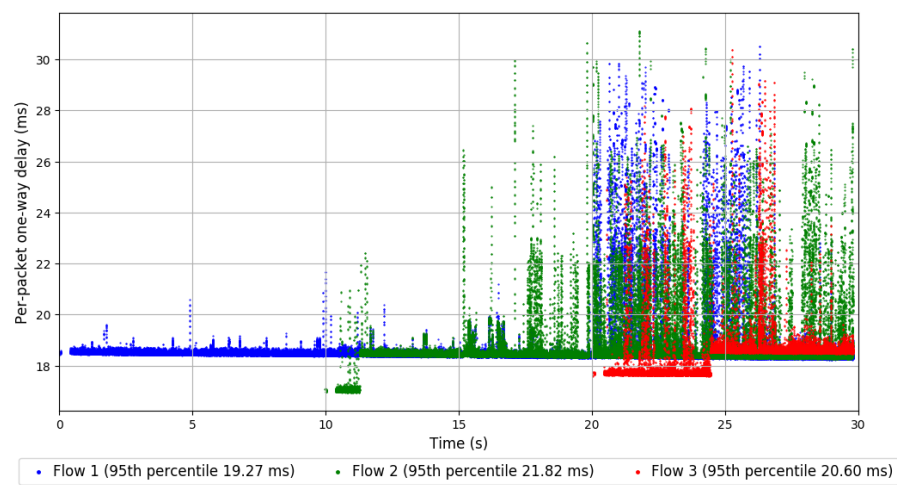
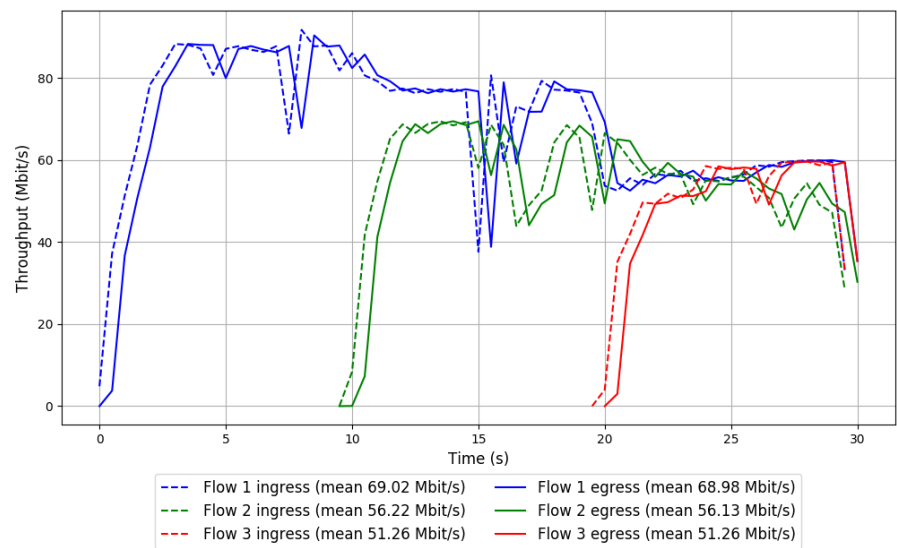
-- Flow 3:

Average throughput: 51.26 Mbit/s

95th percentile per-packet one-way delay: 20.596 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-08-22 06:22:51

End at: 2018-08-22 06:23:21

Local clock offset: 0.399 ms

Remote clock offset: 4.746 ms

Below is generated by plot.py at 2018-08-22 09:01:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.85 Mbit/s

95th percentile per-packet one-way delay: 19.182 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.88 Mbit/s

95th percentile per-packet one-way delay: 18.951 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.61 Mbit/s

95th percentile per-packet one-way delay: 19.122 ms

Loss rate: 0.00%

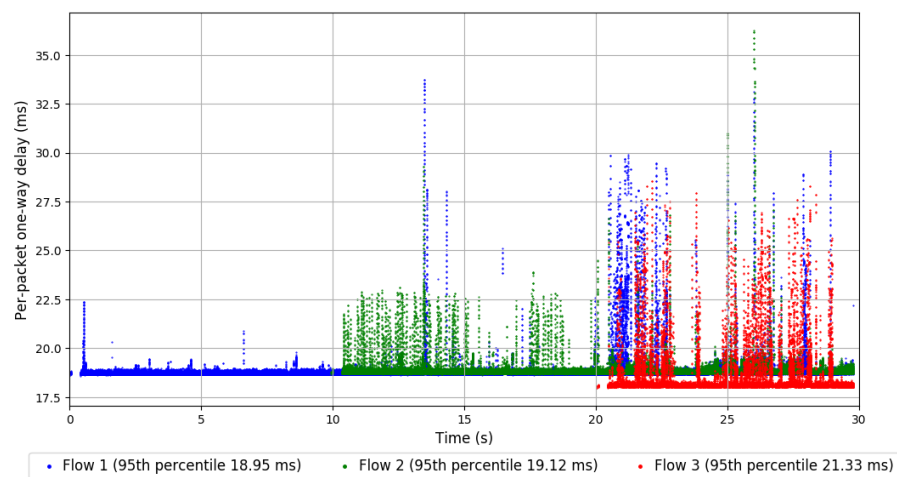
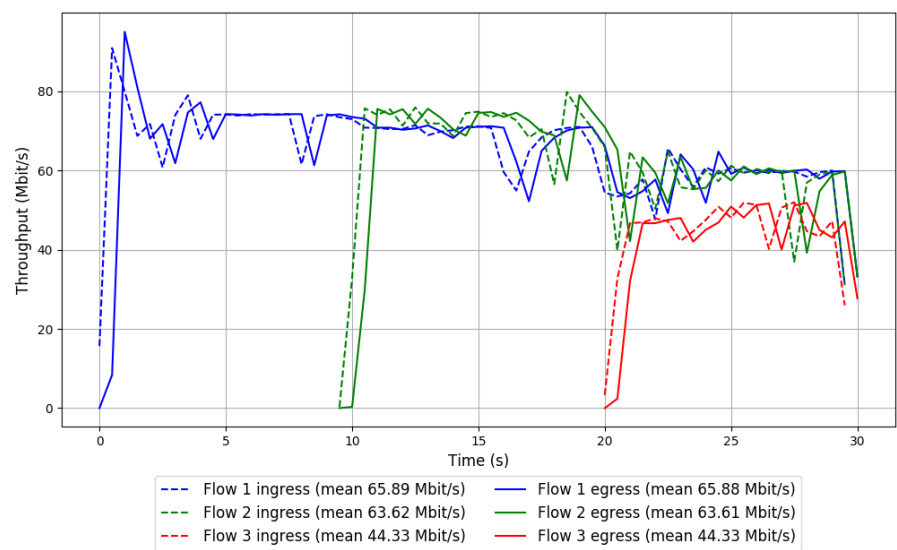
-- Flow 3:

Average throughput: 44.33 Mbit/s

95th percentile per-packet one-way delay: 21.334 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-22 06:49:38

End at: 2018-08-22 06:50:08

Local clock offset: 0.808 ms

Remote clock offset: 6.557 ms

Below is generated by plot.py at 2018-08-22 09:01:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.17 Mbit/s

95th percentile per-packet one-way delay: 21.065 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 66.17 Mbit/s

95th percentile per-packet one-way delay: 19.553 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 57.42 Mbit/s

95th percentile per-packet one-way delay: 20.486 ms

Loss rate: 0.12%

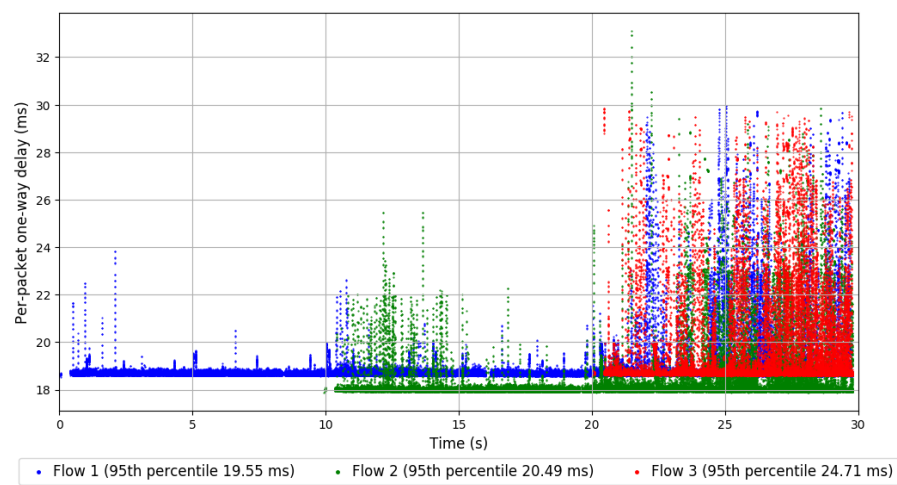
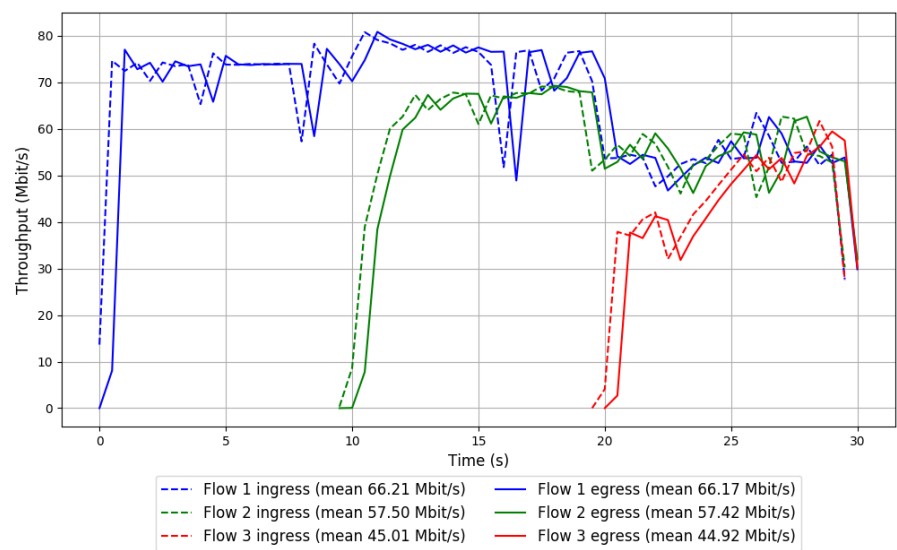
-- Flow 3:

Average throughput: 44.92 Mbit/s

95th percentile per-packet one-way delay: 24.715 ms

Loss rate: 0.20%

Run 10: Report of QUIC Cubic — Data Link

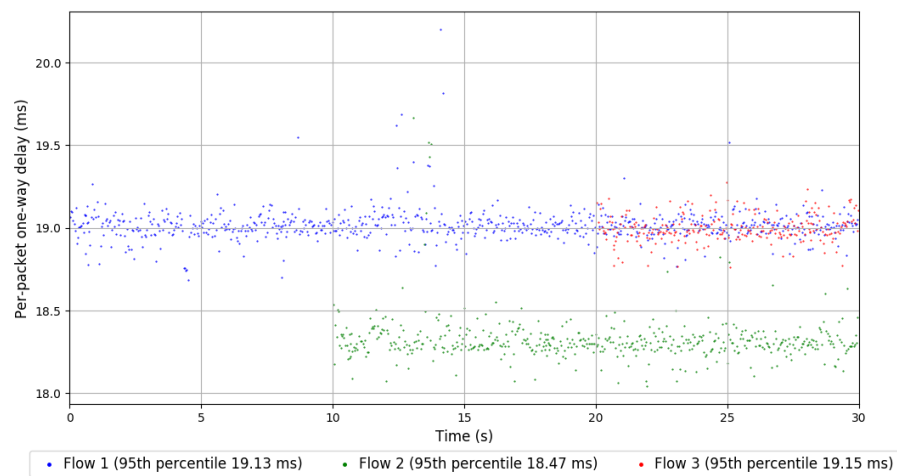
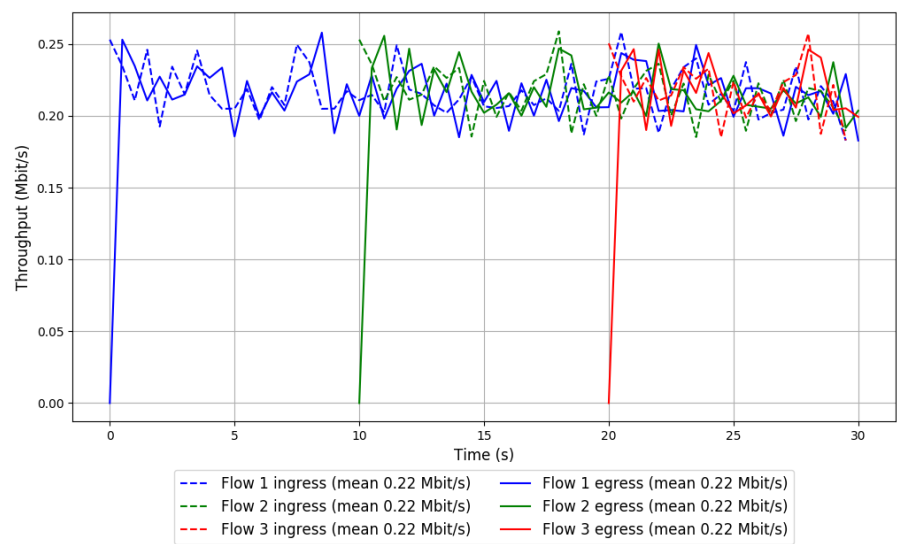


```
Run 1: Statistics of SReAM

Start at: 2018-08-22 02:48:04
End at: 2018-08-22 02:48:34
Local clock offset: 1.484 ms
Remote clock offset: 0.47 ms

# Below is generated by plot.py at 2018-08-22 09:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.117 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.128 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.470 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.153 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

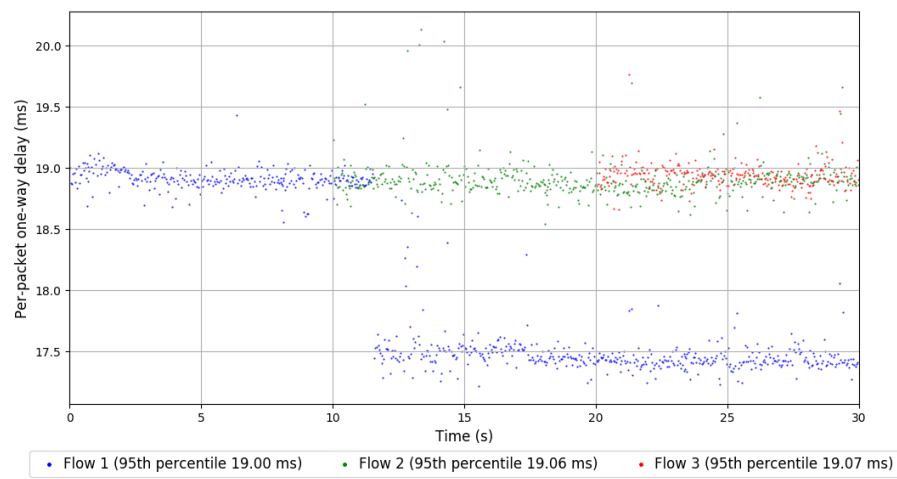
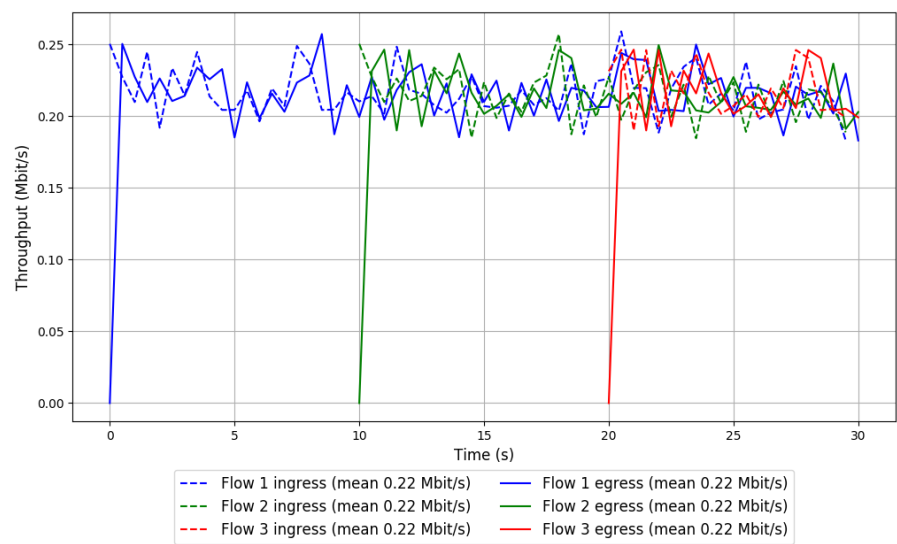


```
Run 2: Statistics of SReAM

Start at: 2018-08-22 03:15:29
End at: 2018-08-22 03:15:59
Local clock offset: 1.205 ms
Remote clock offset: 3.739 ms

# Below is generated by plot.py at 2018-08-22 09:01:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.029 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.996 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.062 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.072 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

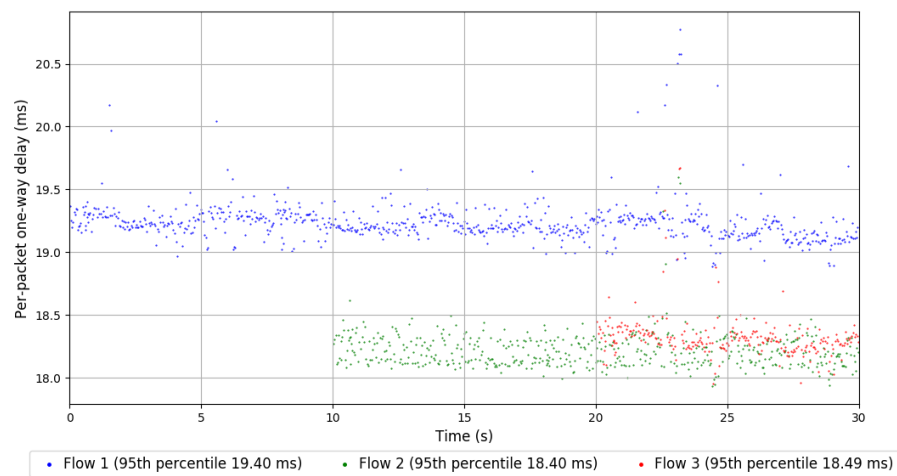
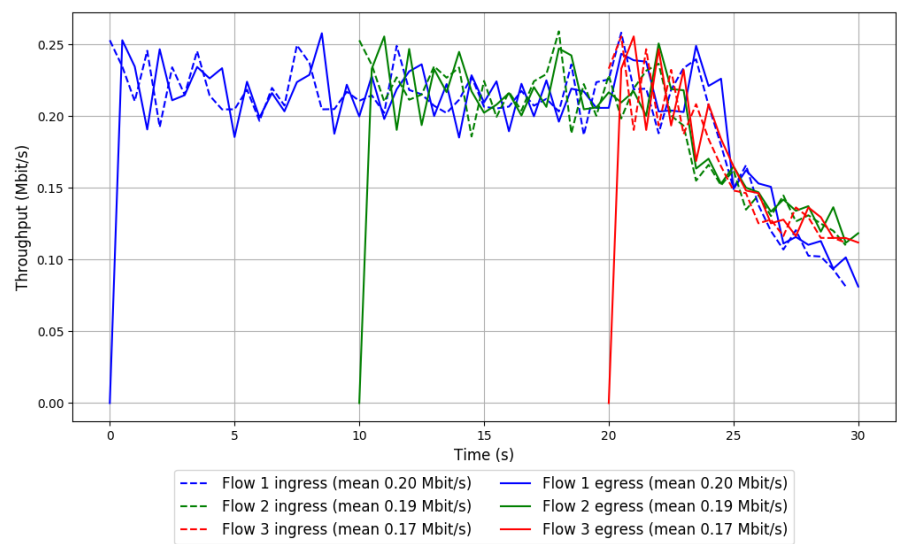


Run 3: Statistics of SCReAM

Start at: 2018-08-22 03:42:44
End at: 2018-08-22 03:43:14
Local clock offset: -0.928 ms
Remote clock offset: 4.025 ms

Below is generated by plot.py at 2018-08-22 09:01:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 19.353 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 19.401 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 18.403 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 18.488 ms
Loss rate: 0.56%

Run 3: Report of SReAM — Data Link

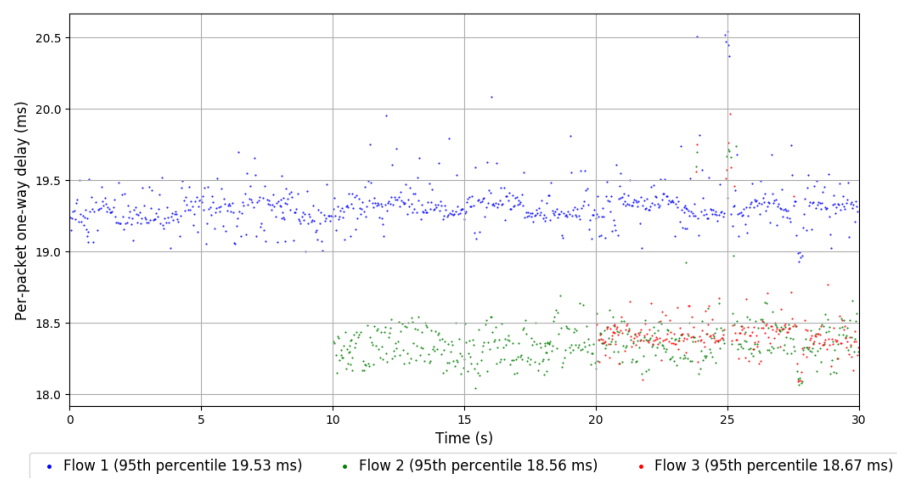
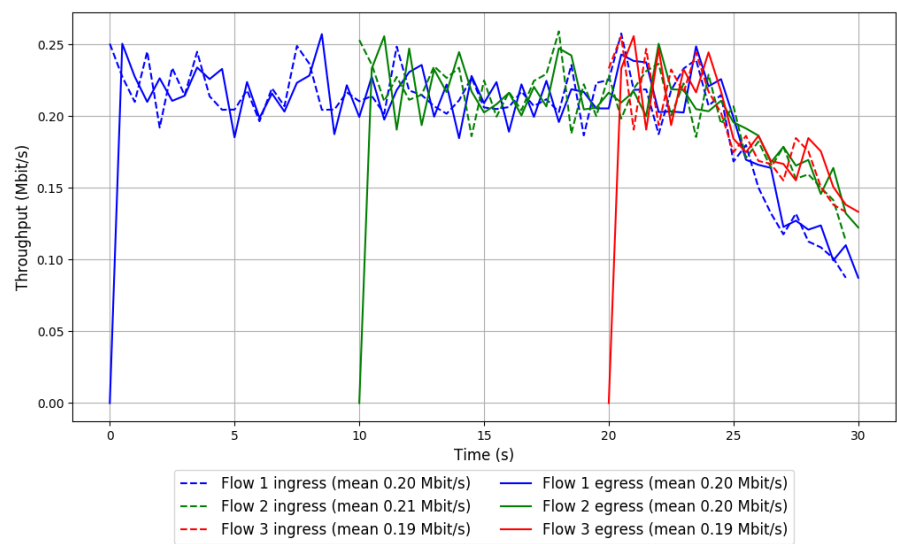


Run 4: Statistics of SReAM

Start at: 2018-08-22 04:10:11
End at: 2018-08-22 04:10:41
Local clock offset: -3.146 ms
Remote clock offset: 3.841 ms

Below is generated by plot.py at 2018-08-22 09:01:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 19.472 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 19.531 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 18.561 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 18.667 ms
Loss rate: 0.47%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-08-22 04:37:19

End at: 2018-08-22 04:37:49

Local clock offset: -3.084 ms

Remote clock offset: 3.552 ms

Below is generated by plot.py at 2018-08-22 09:01:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.710 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.582 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.118 ms

Loss rate: 0.00%

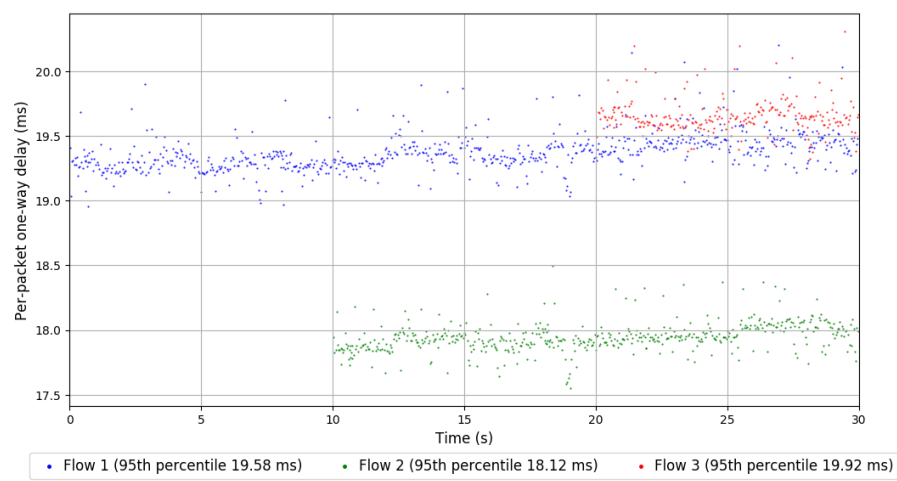
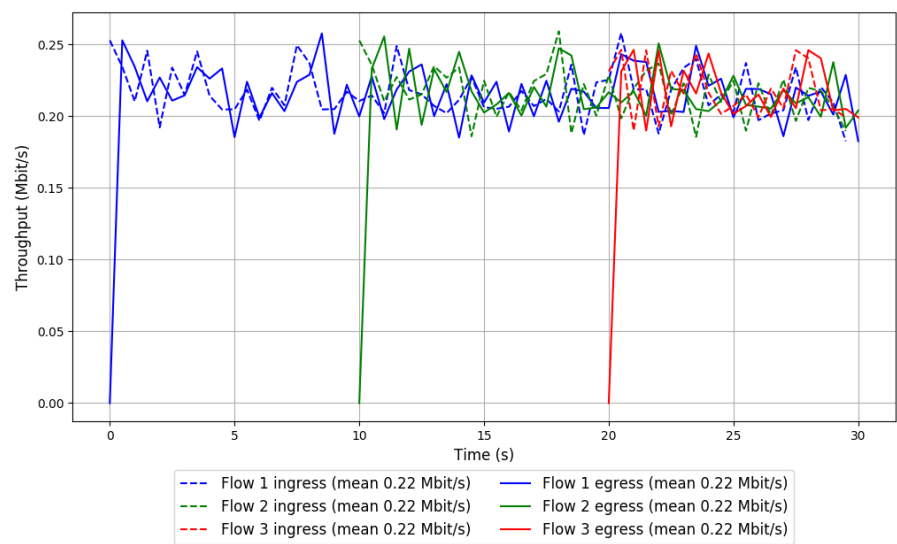
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.923 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

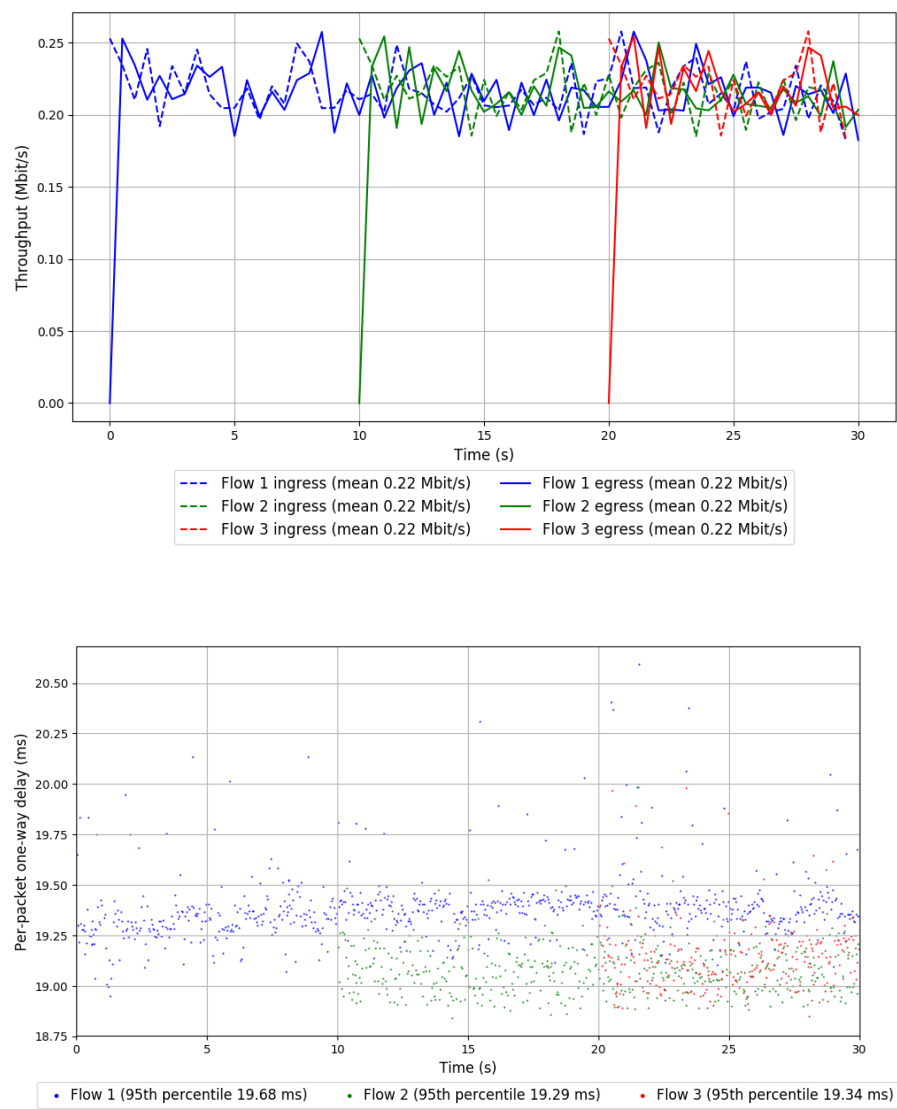


Run 6: Statistics of SReAM

Start at: 2018-08-22 05:04:37
End at: 2018-08-22 05:05:07
Local clock offset: 1.212 ms
Remote clock offset: -1.136 ms

Below is generated by plot.py at 2018-08-22 09:01:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.514 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.678 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.290 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.339 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

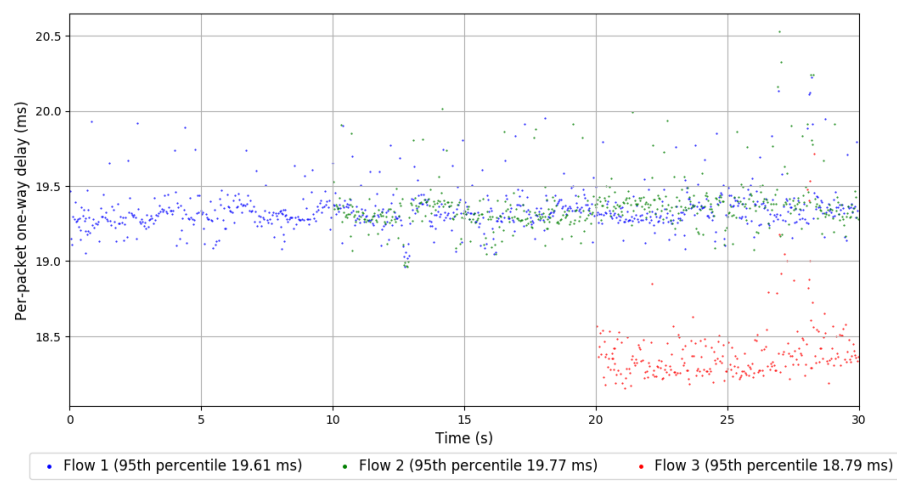
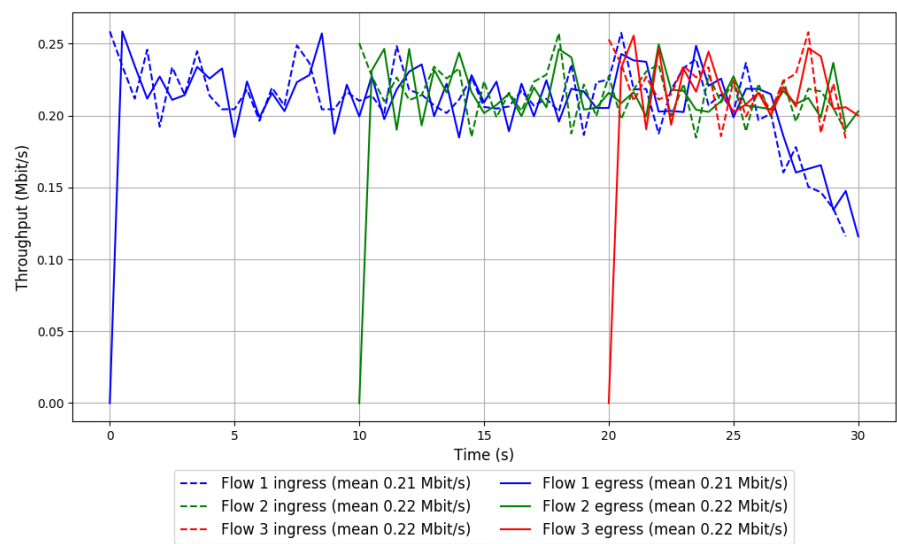


Run 7: Statistics of SReAM

Start at: 2018-08-22 05:31:55
End at: 2018-08-22 05:32:25
Local clock offset: 0.959 ms
Remote clock offset: -2.966 ms

Below is generated by plot.py at 2018-08-22 09:01:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.584 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 19.610 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.766 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.792 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

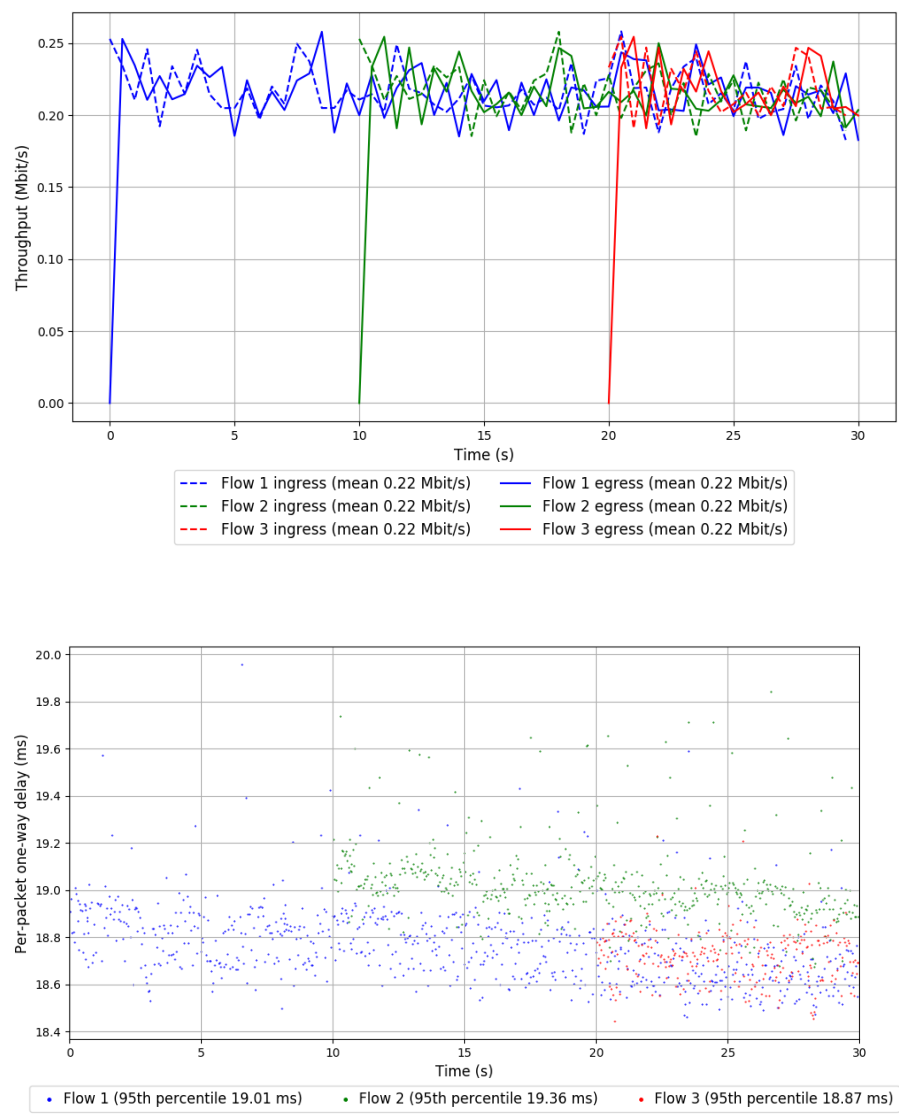


Run 8: Statistics of SReAM

Start at: 2018-08-22 05:59:05
End at: 2018-08-22 05:59:35
Local clock offset: -2.745 ms
Remote clock offset: 1.397 ms

```
# Below is generated by plot.py at 2018-08-22 09:01:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.008 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.359 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.867 ms
Loss rate: 0.00%
```

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-08-22 06:25:47

End at: 2018-08-22 06:26:17

Local clock offset: 0.584 ms

Remote clock offset: 5.021 ms

Below is generated by plot.py at 2018-08-22 09:01:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.495 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.181 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.425 ms

Loss rate: 0.00%

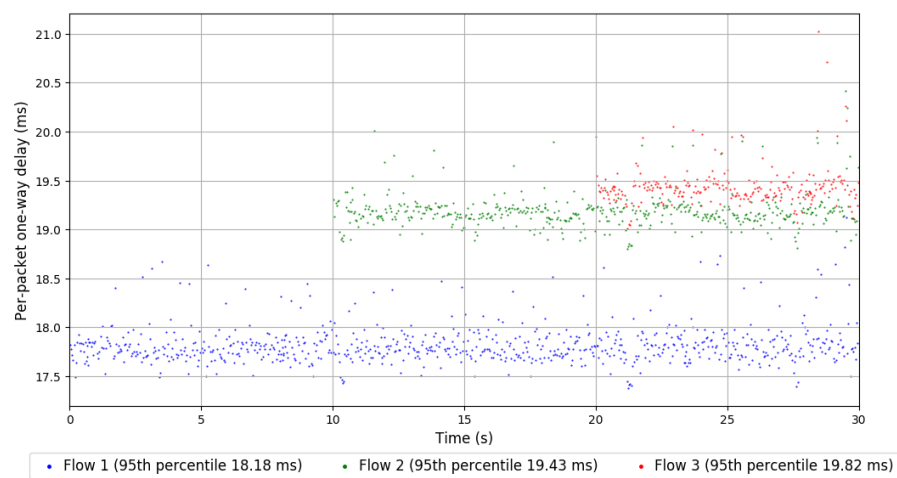
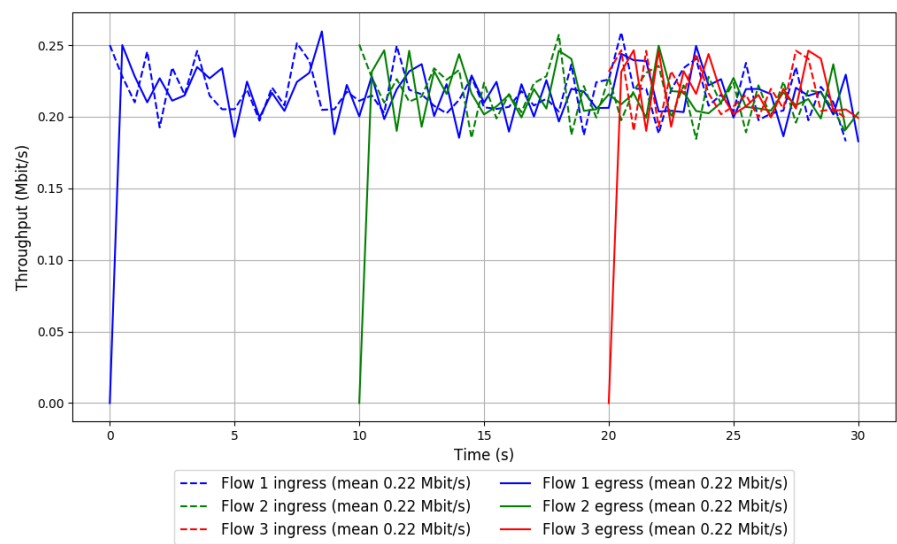
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.820 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-08-22 06:52:53

End at: 2018-08-22 06:53:23

Local clock offset: 0.773 ms

Remote clock offset: 6.799 ms

Below is generated by plot.py at 2018-08-22 09:01:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.169 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.364 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.760 ms

Loss rate: 0.00%

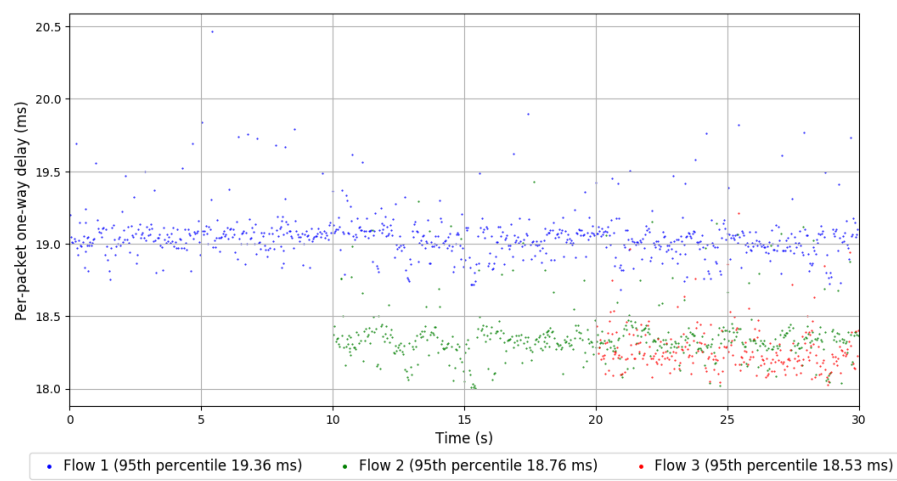
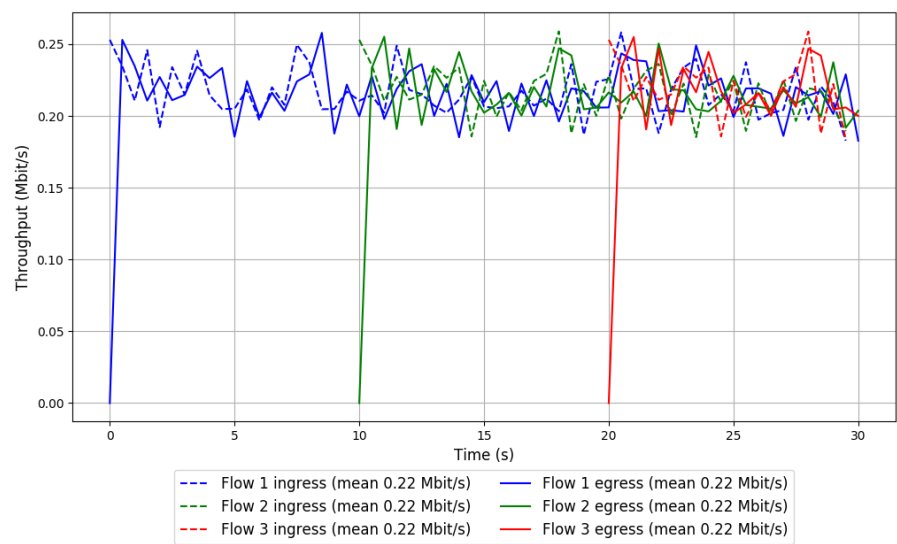
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.533 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

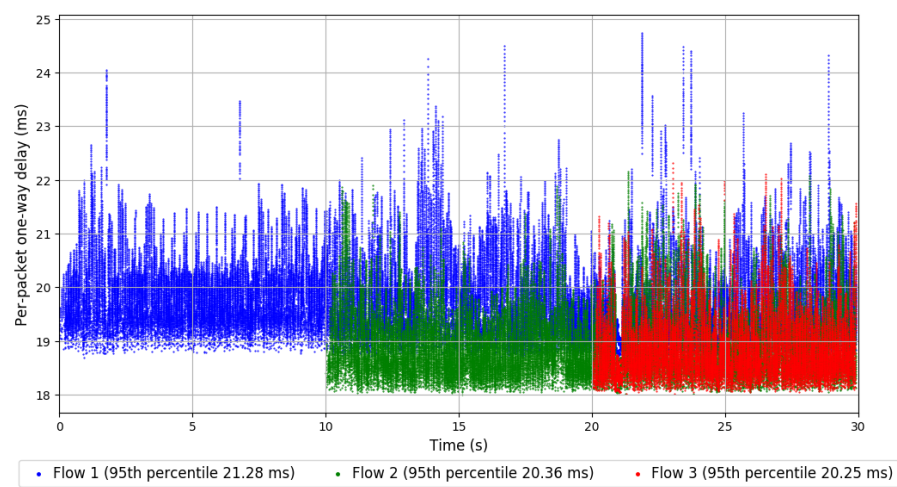
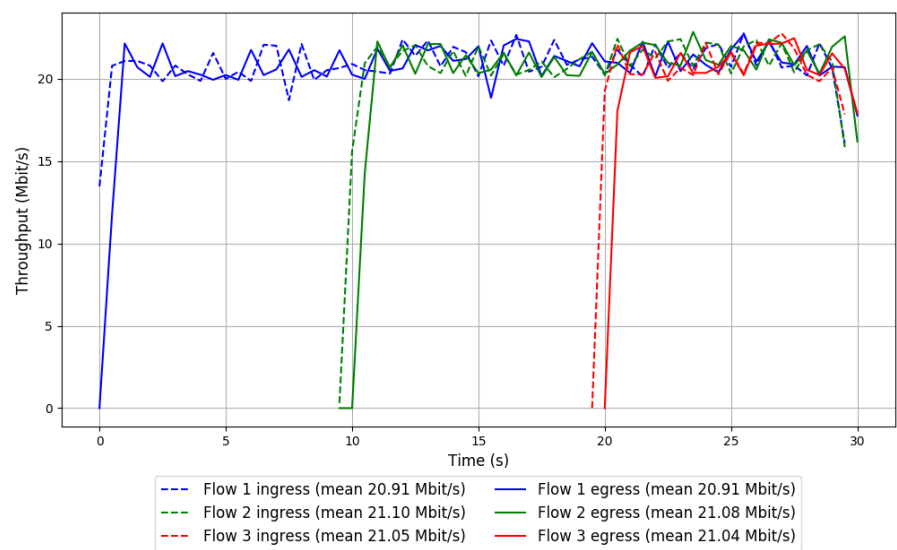


Run 1: Statistics of Sprout

Start at: 2018-08-22 02:28:17
End at: 2018-08-22 02:28:47
Local clock offset: 0.884 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-08-22 09:01:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.90 Mbit/s
95th percentile per-packet one-way delay: 20.967 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 20.91 Mbit/s
95th percentile per-packet one-way delay: 21.279 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 21.08 Mbit/s
95th percentile per-packet one-way delay: 20.355 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 21.04 Mbit/s
95th percentile per-packet one-way delay: 20.247 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-08-22 02:55:38

End at: 2018-08-22 02:56:08

Local clock offset: 1.718 ms

Remote clock offset: 0.681 ms

Below is generated by plot.py at 2018-08-22 09:01:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.53 Mbit/s

95th percentile per-packet one-way delay: 20.919 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 20.60 Mbit/s

95th percentile per-packet one-way delay: 21.128 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 20.458 ms

Loss rate: 0.00%

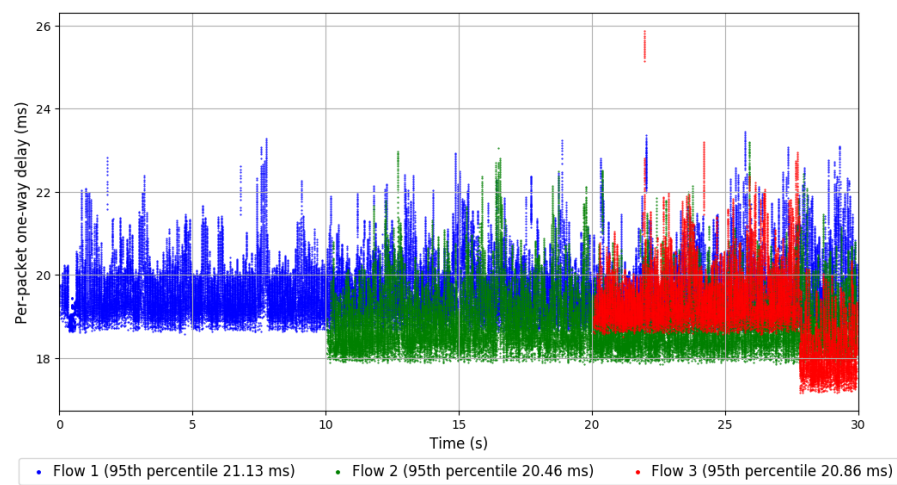
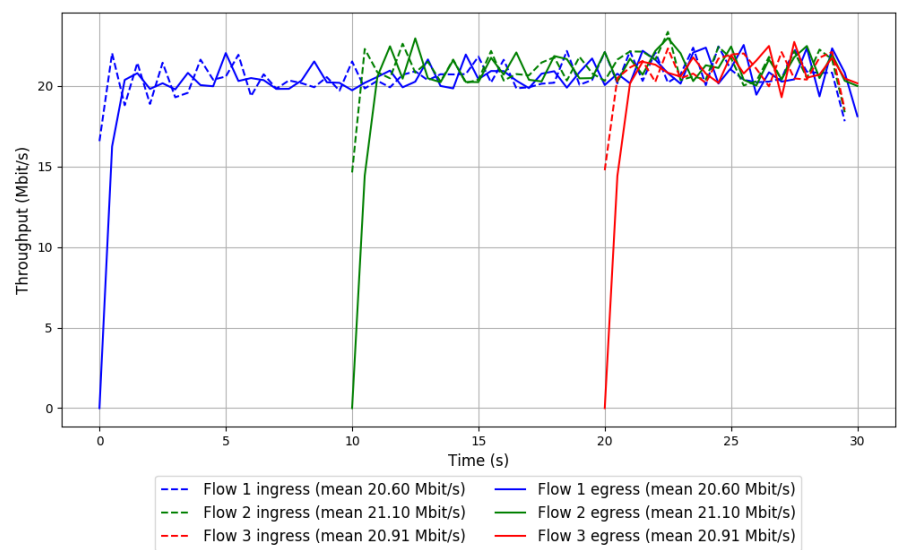
-- Flow 3:

Average throughput: 20.91 Mbit/s

95th percentile per-packet one-way delay: 20.865 ms

Loss rate: 0.03%

Run 2: Report of Sprout — Data Link

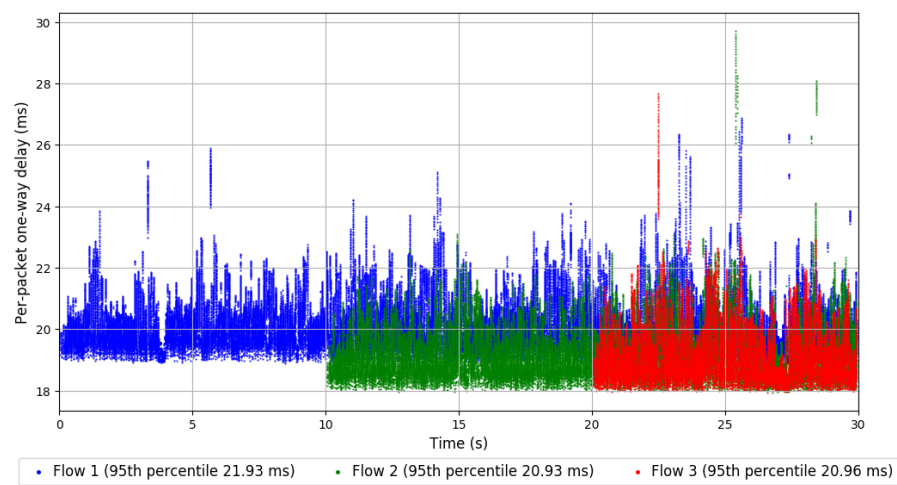
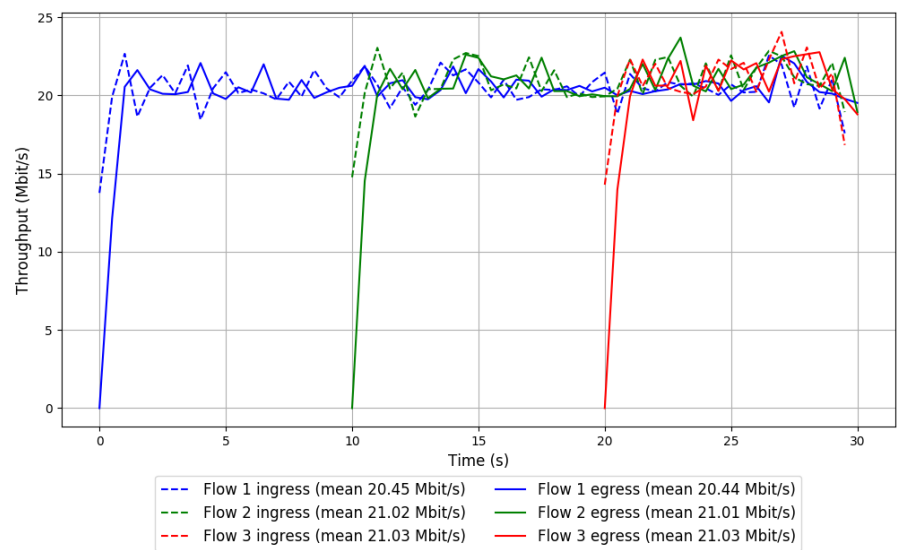


Run 3: Statistics of Sprout

Start at: 2018-08-22 03:23:04
End at: 2018-08-22 03:23:34
Local clock offset: 0.851 ms
Remote clock offset: 4.421 ms

```
# Below is generated by plot.py at 2018-08-22 09:01:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.36 Mbit/s
95th percentile per-packet one-way delay: 21.577 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 20.44 Mbit/s
95th percentile per-packet one-way delay: 21.933 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 21.01 Mbit/s
95th percentile per-packet one-way delay: 20.929 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 21.03 Mbit/s
95th percentile per-packet one-way delay: 20.964 ms
Loss rate: 0.01%
```

Run 3: Report of Sprout — Data Link

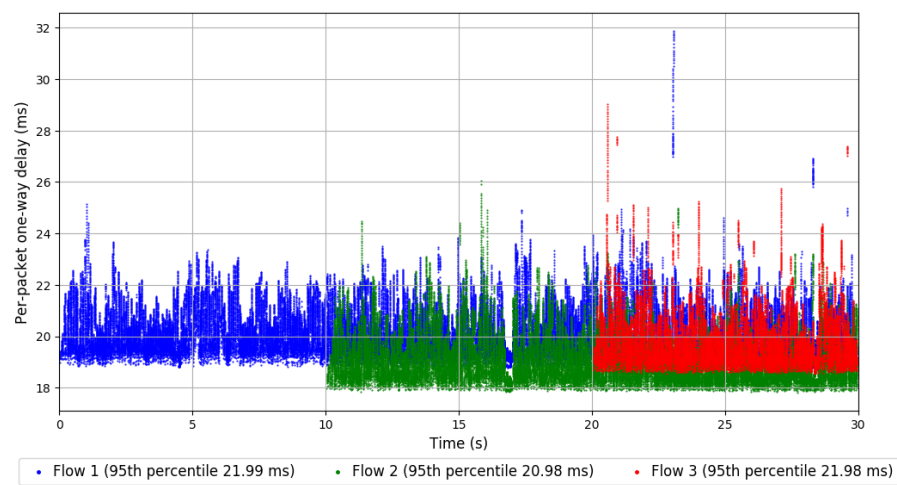
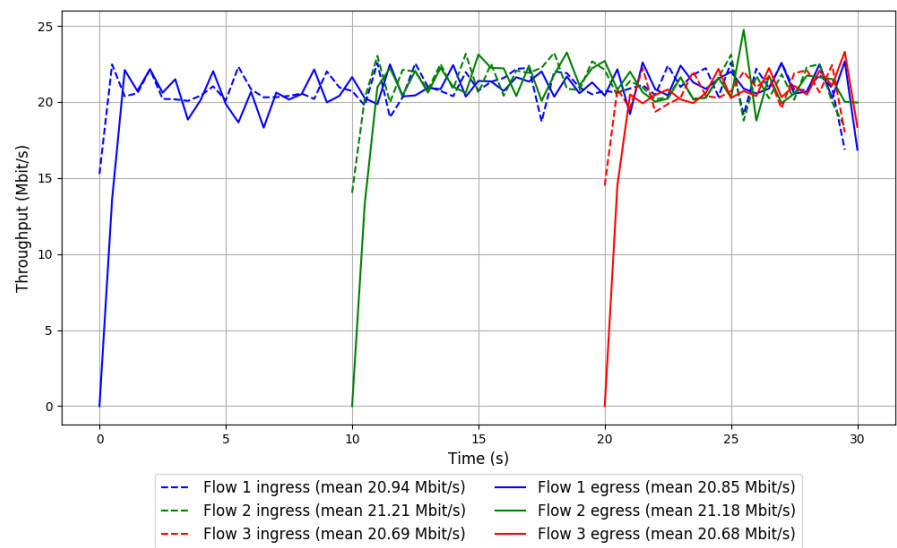


Run 4: Statistics of Sprout

Start at: 2018-08-22 03:50:21
End at: 2018-08-22 03:50:51
Local clock offset: -2.119 ms
Remote clock offset: 3.904 ms

```
# Below is generated by plot.py at 2018-08-22 09:01:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.77 Mbit/s
95th percentile per-packet one-way delay: 21.795 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 20.85 Mbit/s
95th percentile per-packet one-way delay: 21.992 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 21.18 Mbit/s
95th percentile per-packet one-way delay: 20.980 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 20.68 Mbit/s
95th percentile per-packet one-way delay: 21.982 ms
Loss rate: 0.01%
```

Run 4: Report of Sprout — Data Link

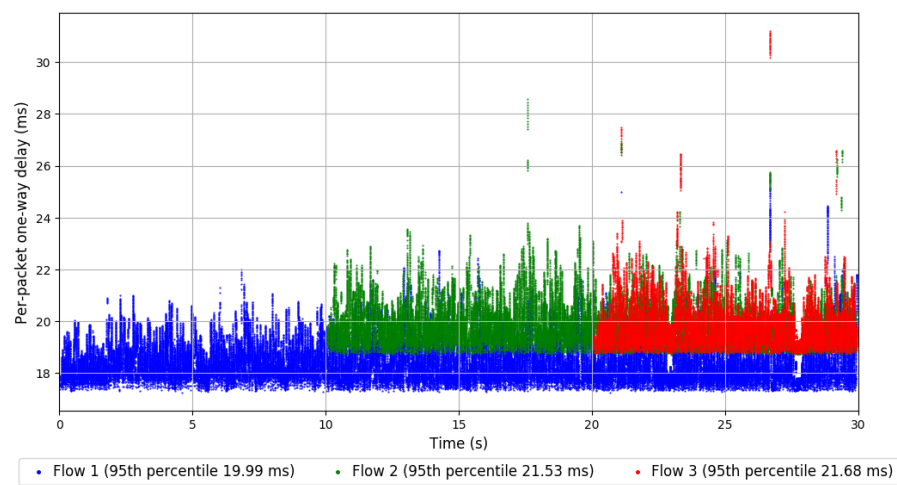
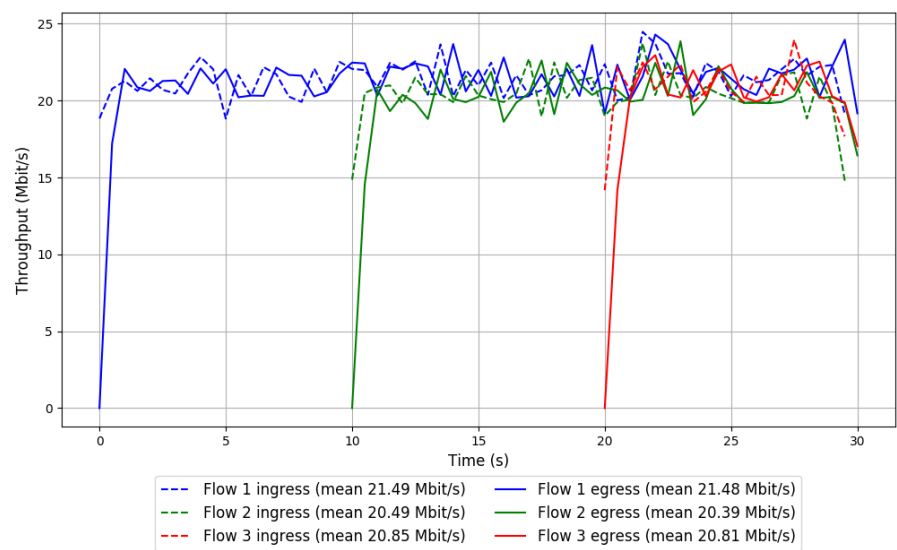


Run 5: Statistics of Sprout

Start at: 2018-08-22 04:17:41
End at: 2018-08-22 04:18:11
Local clock offset: -2.888 ms
Remote clock offset: 3.49 ms

```
# Below is generated by plot.py at 2018-08-22 09:01:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.90 Mbit/s
95th percentile per-packet one-way delay: 21.104 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 21.48 Mbit/s
95th percentile per-packet one-way delay: 19.992 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 20.39 Mbit/s
95th percentile per-packet one-way delay: 21.531 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 20.81 Mbit/s
95th percentile per-packet one-way delay: 21.678 ms
Loss rate: 0.25%
```

Run 5: Report of Sprout — Data Link

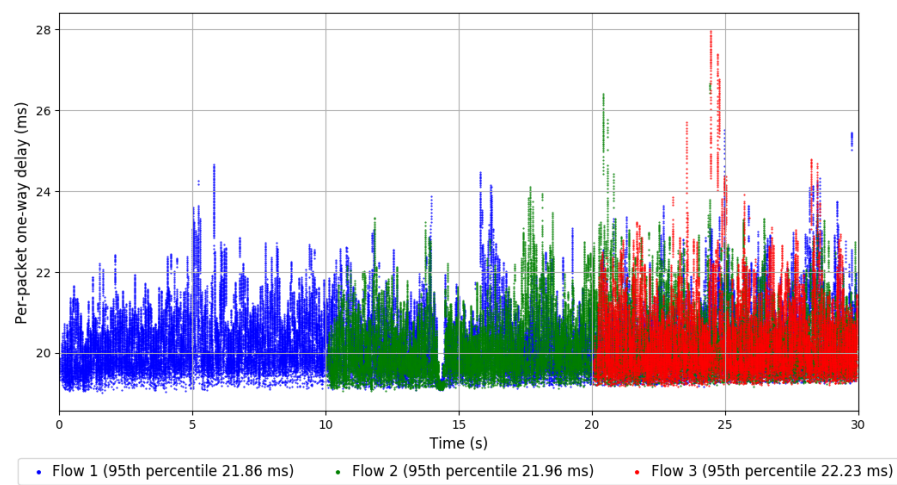
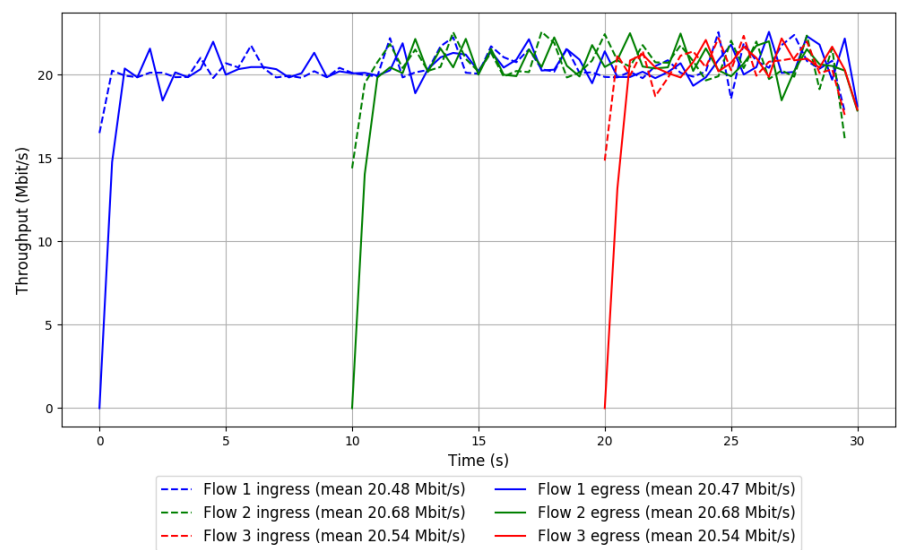


Run 6: Statistics of Sprout

Start at: 2018-08-22 04:44:54
End at: 2018-08-22 04:45:24
Local clock offset: -0.835 ms
Remote clock offset: 1.92 ms

```
# Below is generated by plot.py at 2018-08-22 09:01:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 21.967 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 20.47 Mbit/s
95th percentile per-packet one-way delay: 21.863 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.68 Mbit/s
95th percentile per-packet one-way delay: 21.960 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 20.54 Mbit/s
95th percentile per-packet one-way delay: 22.226 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

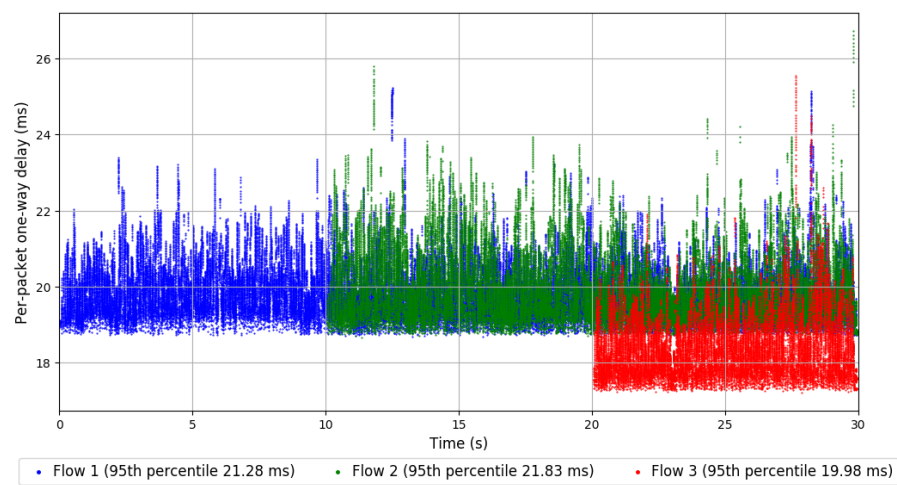
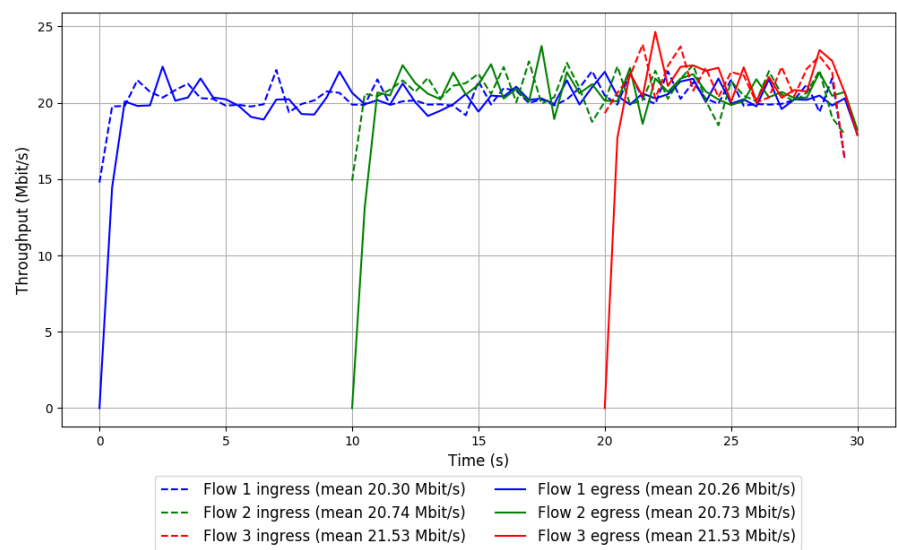


Run 7: Statistics of Sprout

Start at: 2018-08-22 05:12:08
End at: 2018-08-22 05:12:38
Local clock offset: 1.087 ms
Remote clock offset: -1.702 ms

Below is generated by plot.py at 2018-08-22 09:01:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.17 Mbit/s
95th percentile per-packet one-way delay: 21.434 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 21.282 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 20.73 Mbit/s
95th percentile per-packet one-way delay: 21.834 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 21.53 Mbit/s
95th percentile per-packet one-way delay: 19.985 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

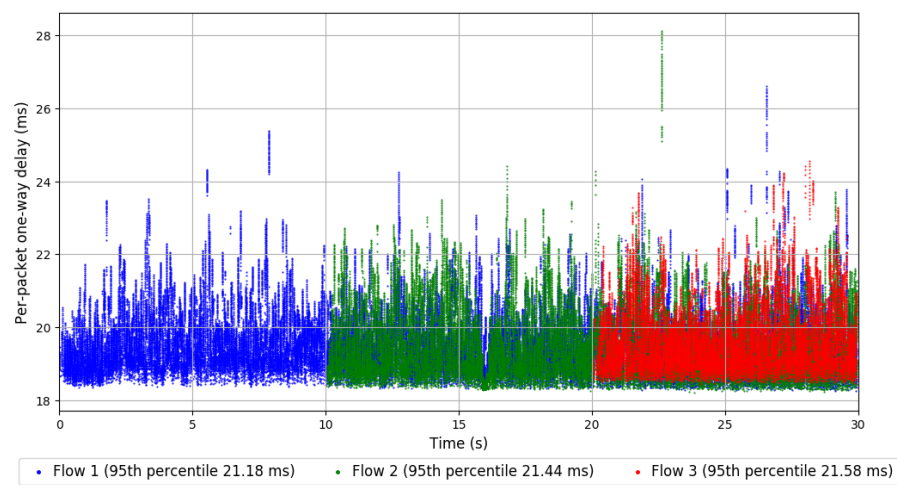
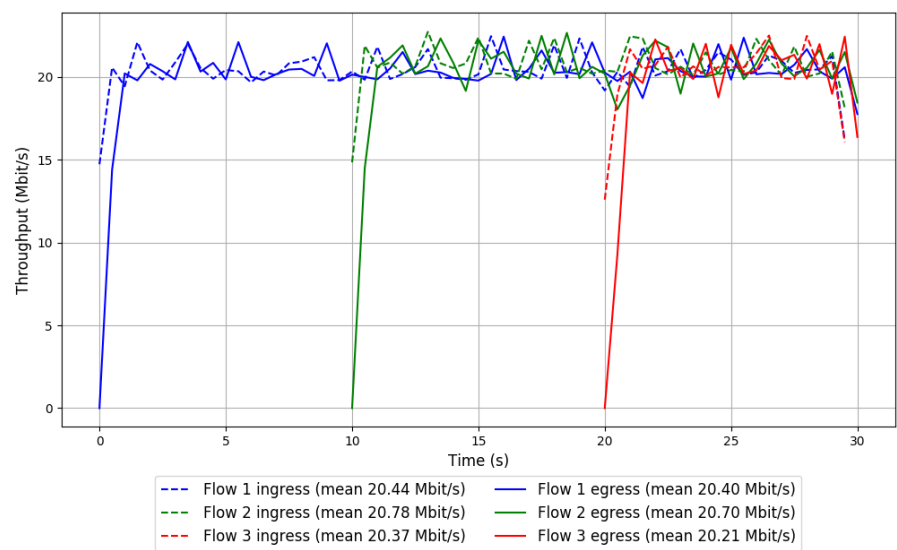


Run 8: Statistics of Sprout

Start at: 2018-08-22 05:39:22
End at: 2018-08-22 05:39:52
Local clock offset: 0.372 ms
Remote clock offset: -3.425 ms

```
# Below is generated by plot.py at 2018-08-22 09:01:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.85 Mbit/s
95th percentile per-packet one-way delay: 21.371 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 20.40 Mbit/s
95th percentile per-packet one-way delay: 21.176 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 20.70 Mbit/s
95th percentile per-packet one-way delay: 21.444 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 20.21 Mbit/s
95th percentile per-packet one-way delay: 21.576 ms
Loss rate: 0.75%
```

Run 8: Report of Sprout — Data Link

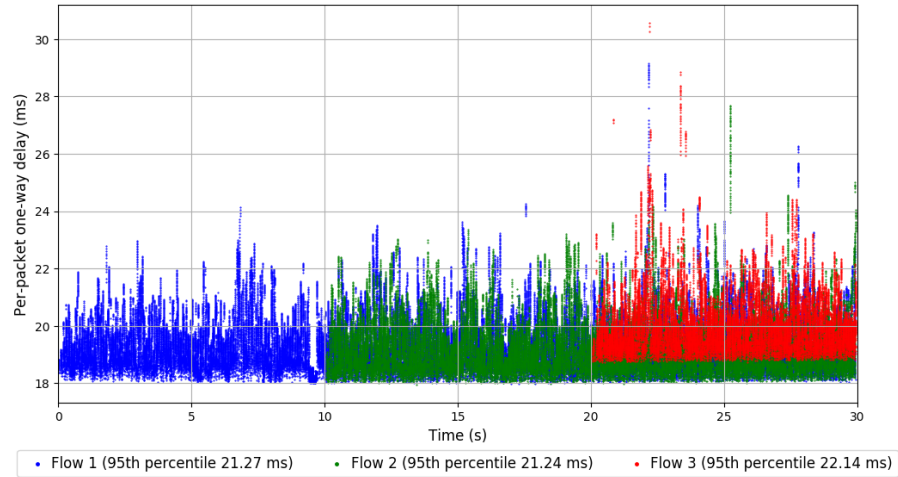
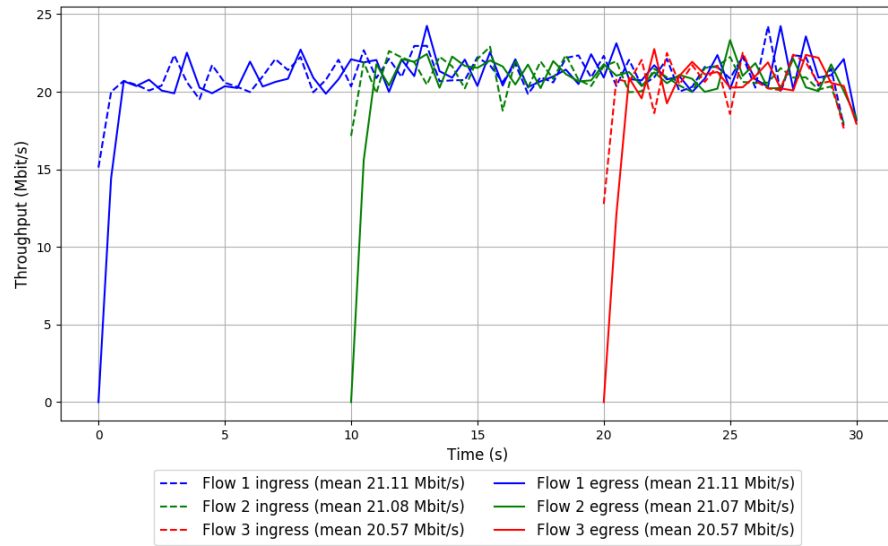


Run 9: Statistics of Sprout

Start at: 2018-08-22 06:06:29
End at: 2018-08-22 06:06:59
Local clock offset: -3.175 ms
Remote clock offset: 3.06 ms

Below is generated by plot.py at 2018-08-22 09:01:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.92 Mbit/s
95th percentile per-packet one-way delay: 21.451 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.11 Mbit/s
95th percentile per-packet one-way delay: 21.268 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 21.07 Mbit/s
95th percentile per-packet one-way delay: 21.244 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.57 Mbit/s
95th percentile per-packet one-way delay: 22.140 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-08-22 06:33:16

End at: 2018-08-22 06:33:46

Local clock offset: 1.125 ms

Remote clock offset: 5.447 ms

Below is generated by plot.py at 2018-08-22 09:01:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.81 Mbit/s

95th percentile per-packet one-way delay: 21.679 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 21.19 Mbit/s

95th percentile per-packet one-way delay: 20.662 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 20.62 Mbit/s

95th percentile per-packet one-way delay: 22.310 ms

Loss rate: 0.66%

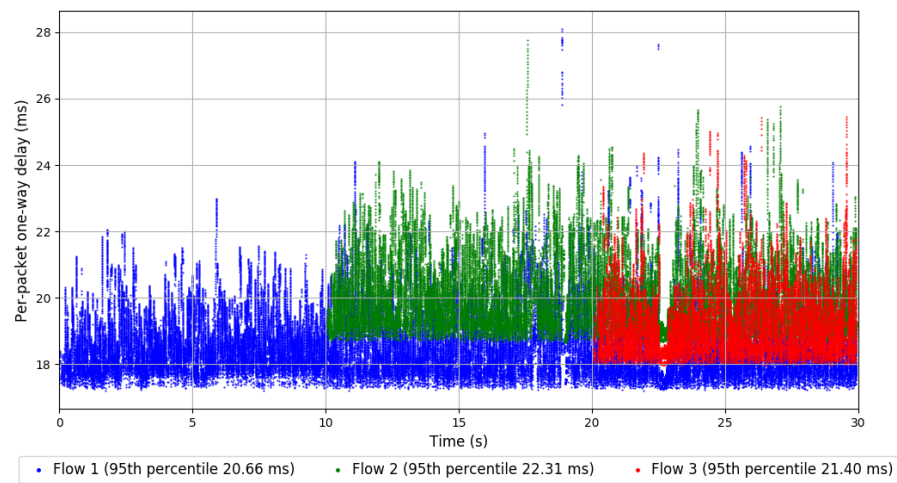
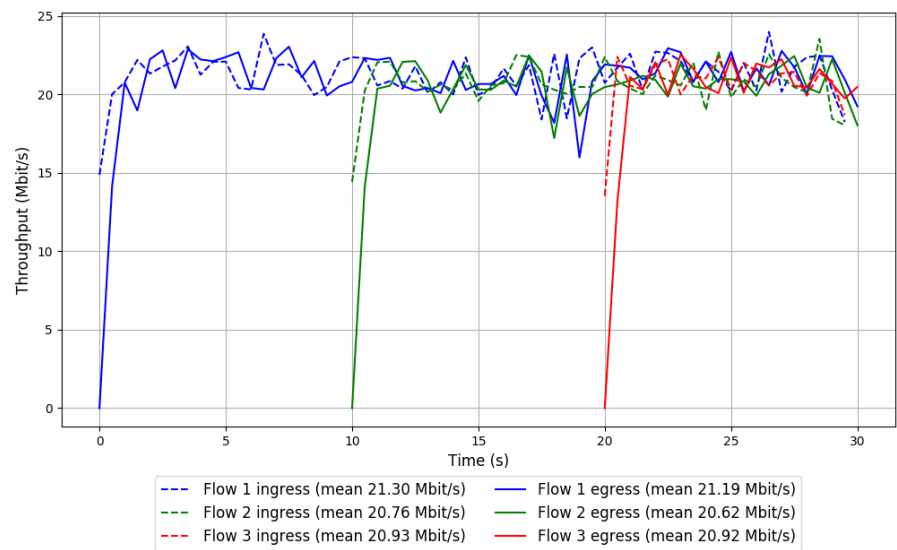
-- Flow 3:

Average throughput: 20.92 Mbit/s

95th percentile per-packet one-way delay: 21.399 ms

Loss rate: 0.04%

Run 10: Report of Sprout — Data Link

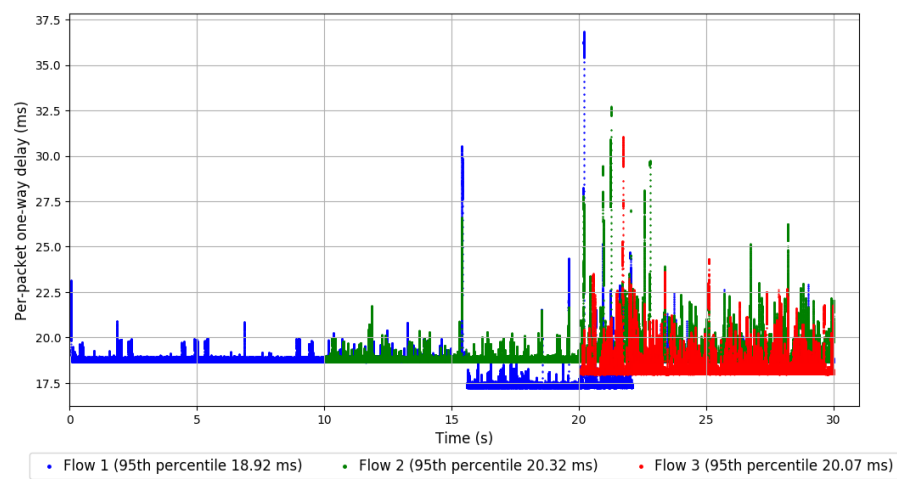
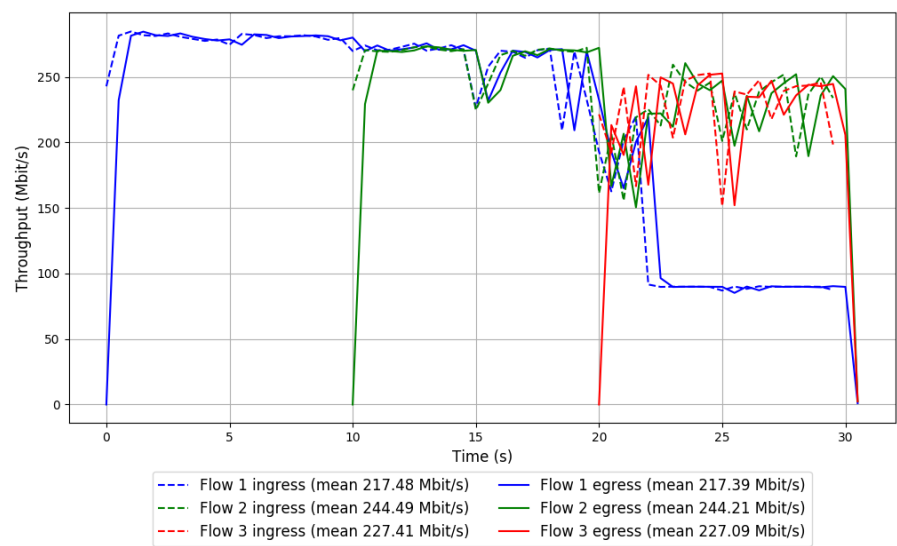


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-22 02:31:23
End at: 2018-08-22 02:31:53
Local clock offset: 1.204 ms
Remote clock offset: 0.104 ms

# Below is generated by plot.py at 2018-08-22 09:06:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 455.58 Mbit/s
95th percentile per-packet one-way delay: 19.747 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 217.39 Mbit/s
95th percentile per-packet one-way delay: 18.917 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 244.21 Mbit/s
95th percentile per-packet one-way delay: 20.317 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 227.09 Mbit/s
95th percentile per-packet one-way delay: 20.075 ms
Loss rate: 0.14%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-22 02:58:43

End at: 2018-08-22 02:59:13

Local clock offset: 1.788 ms

Remote clock offset: 1.009 ms

Below is generated by plot.py at 2018-08-22 09:07:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 458.86 Mbit/s

95th percentile per-packet one-way delay: 20.435 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 245.16 Mbit/s

95th percentile per-packet one-way delay: 19.208 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 227.32 Mbit/s

95th percentile per-packet one-way delay: 21.049 ms

Loss rate: 0.04%

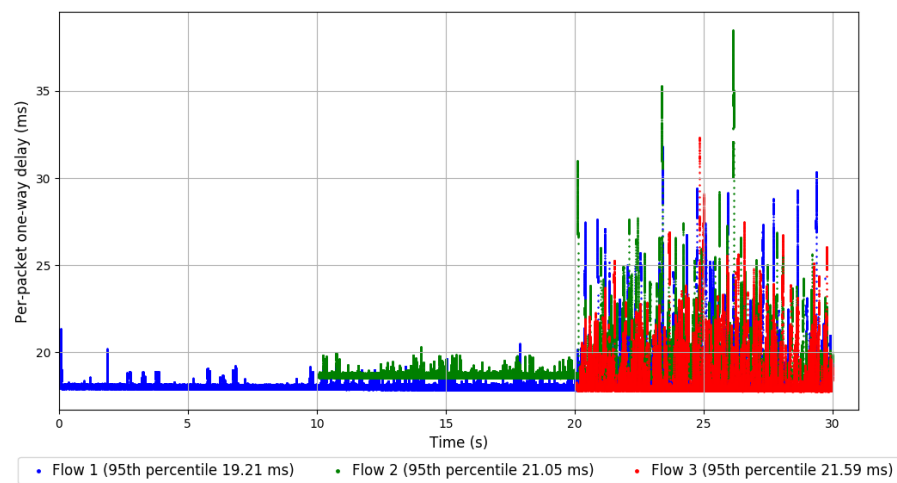
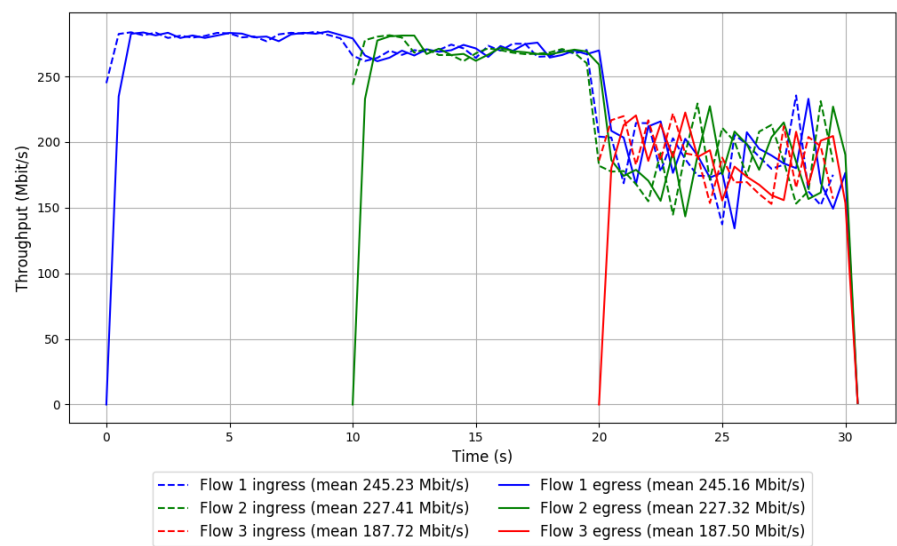
-- Flow 3:

Average throughput: 187.50 Mbit/s

95th percentile per-packet one-way delay: 21.586 ms

Loss rate: 0.11%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-22 03:26:08

End at: 2018-08-22 03:26:38

Local clock offset: 0.864 ms

Remote clock offset: 4.6 ms

Below is generated by plot.py at 2018-08-22 09:07:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 449.34 Mbit/s

95th percentile per-packet one-way delay: 20.878 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 239.05 Mbit/s

95th percentile per-packet one-way delay: 19.287 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 224.92 Mbit/s

95th percentile per-packet one-way delay: 21.162 ms

Loss rate: 0.12%

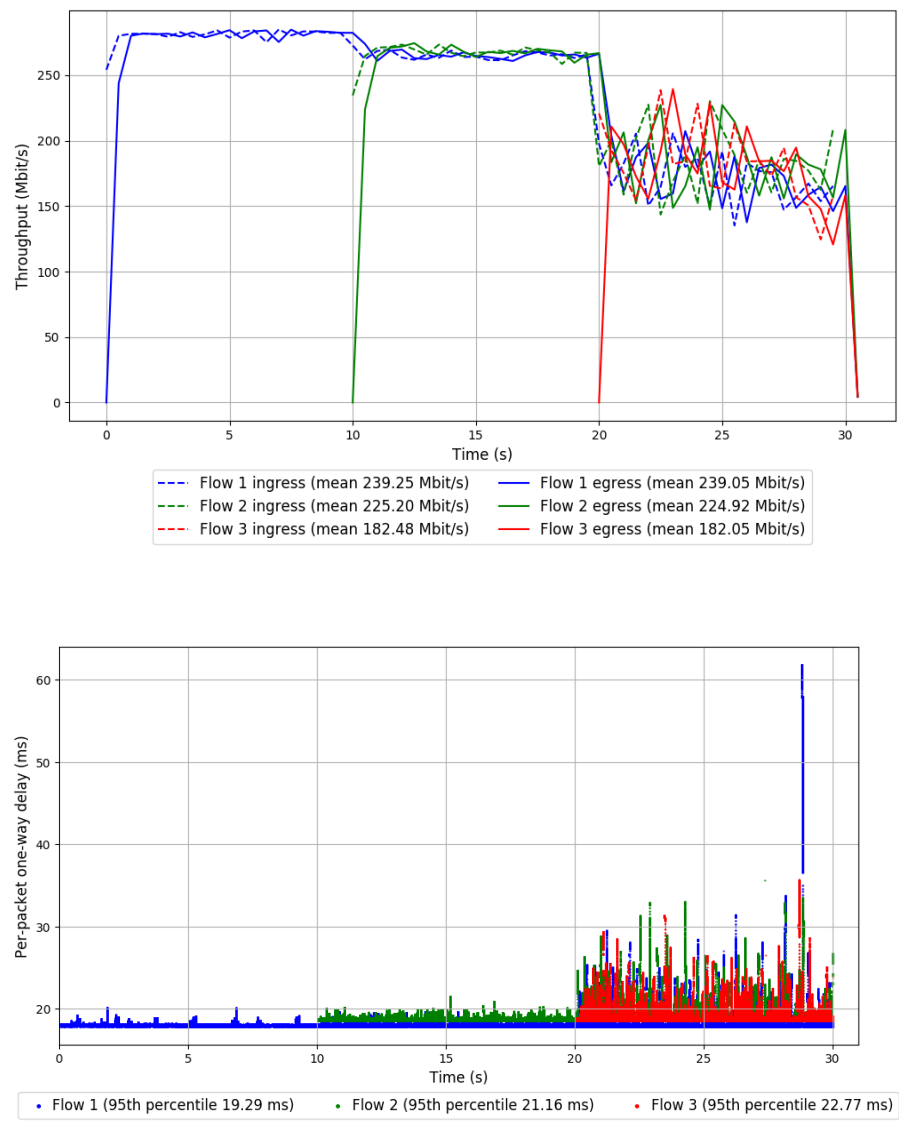
-- Flow 3:

Average throughput: 182.05 Mbit/s

95th percentile per-packet one-way delay: 22.768 ms

Loss rate: 0.18%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-08-22 03:53:25

End at: 2018-08-22 03:53:55

Local clock offset: -2.526 ms

Remote clock offset: 3.932 ms

Below is generated by plot.py at 2018-08-22 09:07:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 454.15 Mbit/s

95th percentile per-packet one-way delay: 20.951 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 240.23 Mbit/s

95th percentile per-packet one-way delay: 20.226 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 229.77 Mbit/s

95th percentile per-packet one-way delay: 21.575 ms

Loss rate: 0.02%

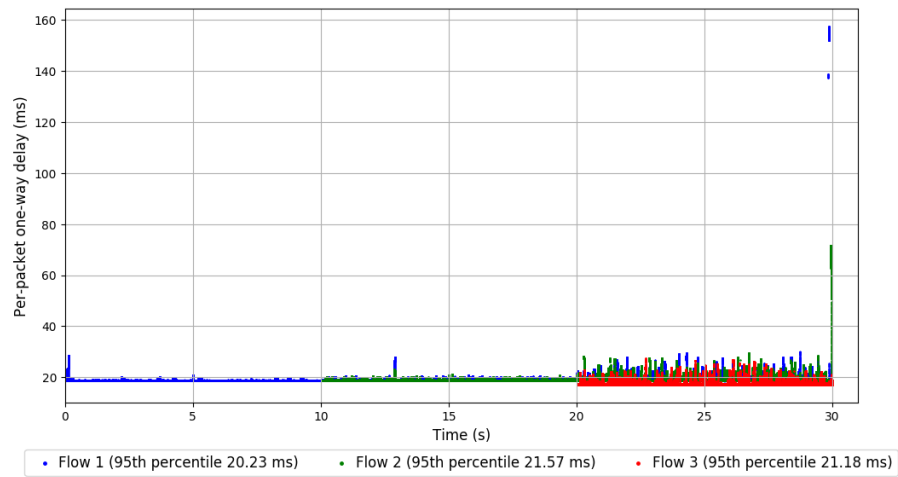
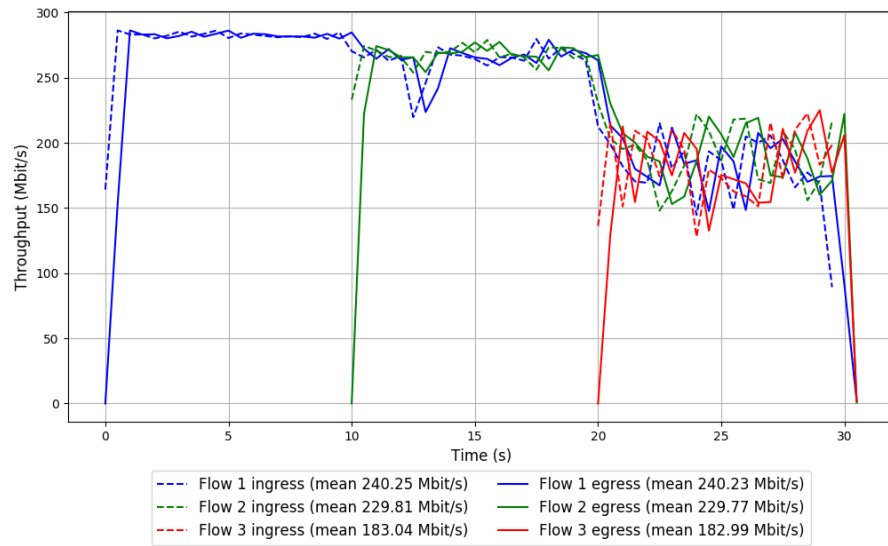
-- Flow 3:

Average throughput: 182.99 Mbit/s

95th percentile per-packet one-way delay: 21.185 ms

Loss rate: 0.03%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-08-22 04:20:46

End at: 2018-08-22 04:21:16

Local clock offset: -2.867 ms

Remote clock offset: 3.405 ms

Below is generated by plot.py at 2018-08-22 09:08:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 447.61 Mbit/s

95th percentile per-packet one-way delay: 21.306 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 238.45 Mbit/s

95th percentile per-packet one-way delay: 20.447 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 222.32 Mbit/s

95th percentile per-packet one-way delay: 21.229 ms

Loss rate: 0.01%

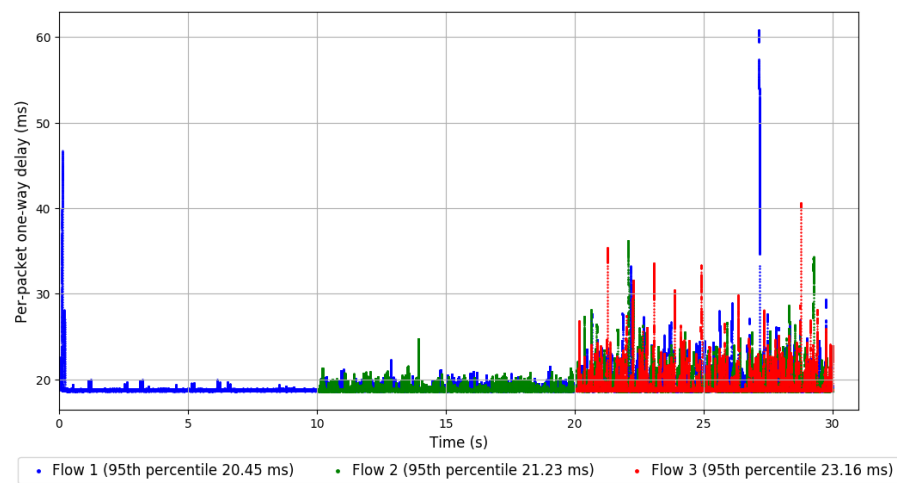
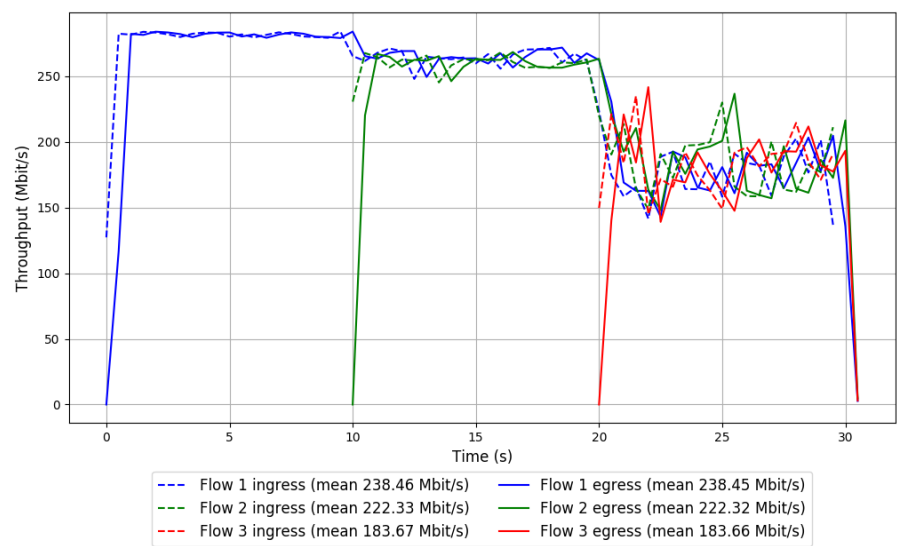
-- Flow 3:

Average throughput: 183.66 Mbit/s

95th percentile per-packet one-way delay: 23.158 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-08-22 04:48:00

End at: 2018-08-22 04:48:30

Local clock offset: -0.186 ms

Remote clock offset: 0.999 ms

Below is generated by plot.py at 2018-08-22 09:09:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 447.39 Mbit/s

95th percentile per-packet one-way delay: 20.984 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 238.79 Mbit/s

95th percentile per-packet one-way delay: 19.620 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 222.14 Mbit/s

95th percentile per-packet one-way delay: 21.687 ms

Loss rate: 0.02%

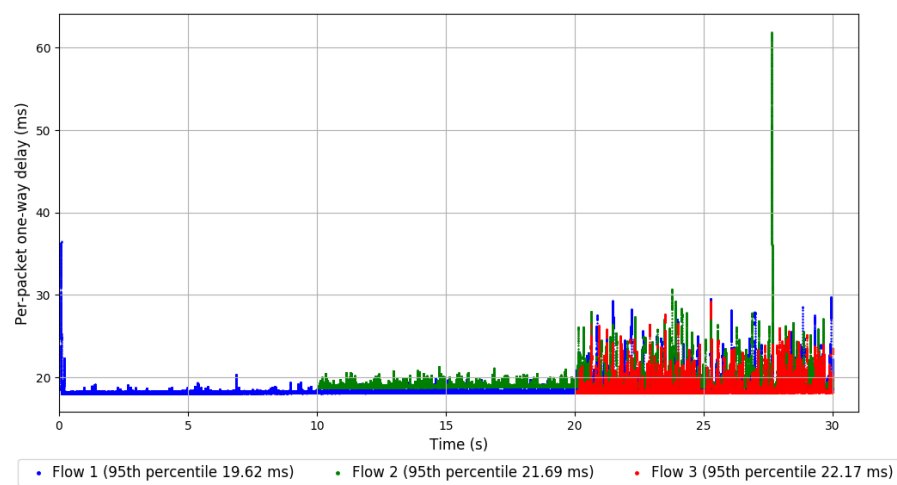
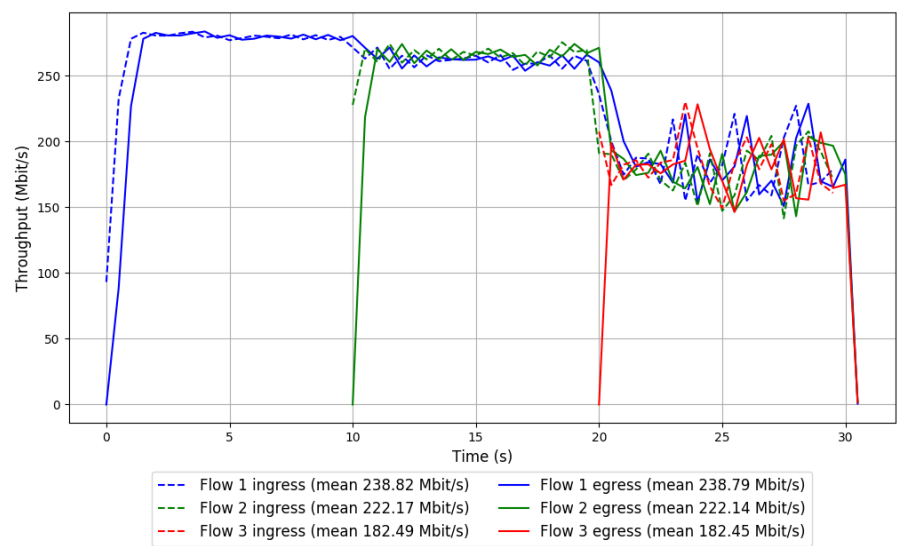
-- Flow 3:

Average throughput: 182.45 Mbit/s

95th percentile per-packet one-way delay: 22.172 ms

Loss rate: 0.02%

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

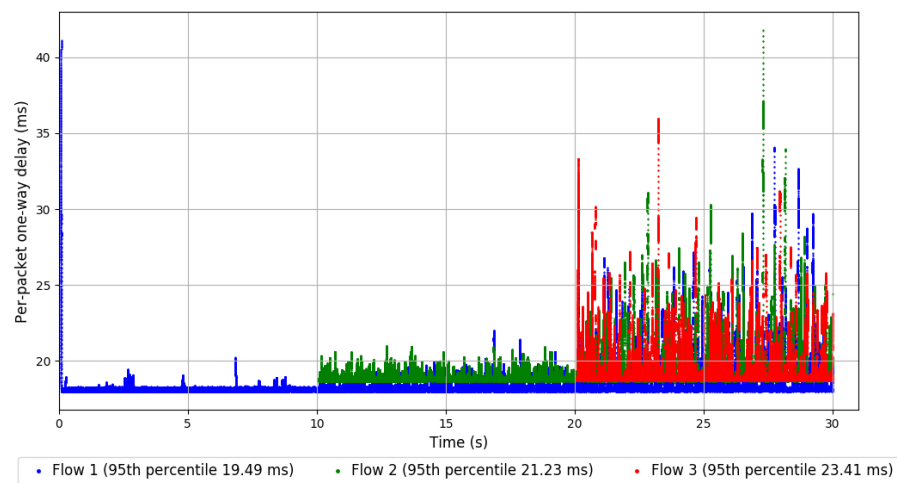
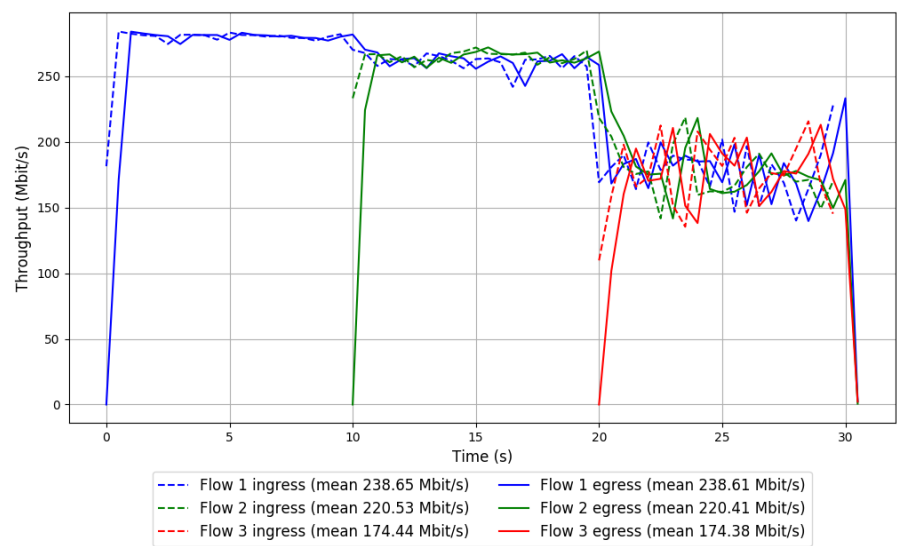


Run 7: Statistics of TaoVA-100x

Start at: 2018-08-22 05:15:18
End at: 2018-08-22 05:15:48
Local clock offset: 1.043 ms
Remote clock offset: -1.927 ms

Below is generated by plot.py at 2018-08-22 09:11:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 443.35 Mbit/s
95th percentile per-packet one-way delay: 21.084 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 238.61 Mbit/s
95th percentile per-packet one-way delay: 19.490 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 220.41 Mbit/s
95th percentile per-packet one-way delay: 21.227 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 174.38 Mbit/s
95th percentile per-packet one-way delay: 23.413 ms
Loss rate: 0.05%

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

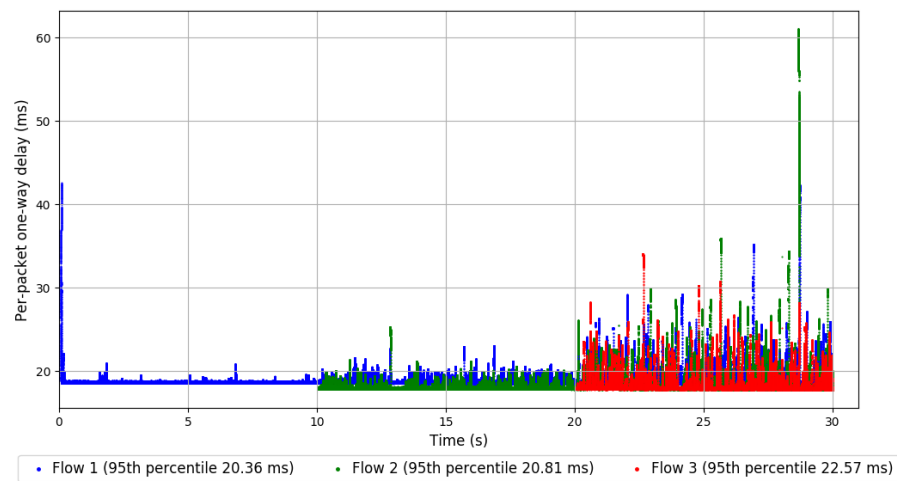
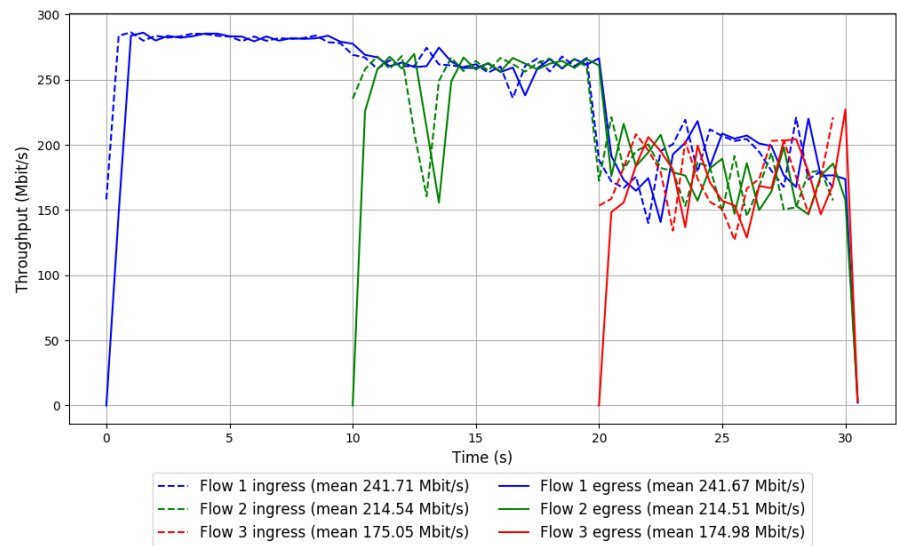


Run 8: Statistics of TaoVA-100x

Start at: 2018-08-22 05:42:29
End at: 2018-08-22 05:42:59
Local clock offset: -0.643 ms
Remote clock offset: -3.549 ms

Below is generated by plot.py at 2018-08-22 09:12:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 442.70 Mbit/s
95th percentile per-packet one-way delay: 20.885 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 241.67 Mbit/s
95th percentile per-packet one-way delay: 20.364 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 214.51 Mbit/s
95th percentile per-packet one-way delay: 20.814 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 174.98 Mbit/s
95th percentile per-packet one-way delay: 22.566 ms
Loss rate: 0.05%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-08-22 06:09:34

End at: 2018-08-22 06:10:04

Local clock offset: -2.318 ms

Remote clock offset: 3.519 ms

Below is generated by plot.py at 2018-08-22 09:15:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.24 Mbit/s

95th percentile per-packet one-way delay: 19.146 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 142.93 Mbit/s

95th percentile per-packet one-way delay: 18.852 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 249.46 Mbit/s

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

Loss rate: 0.09%

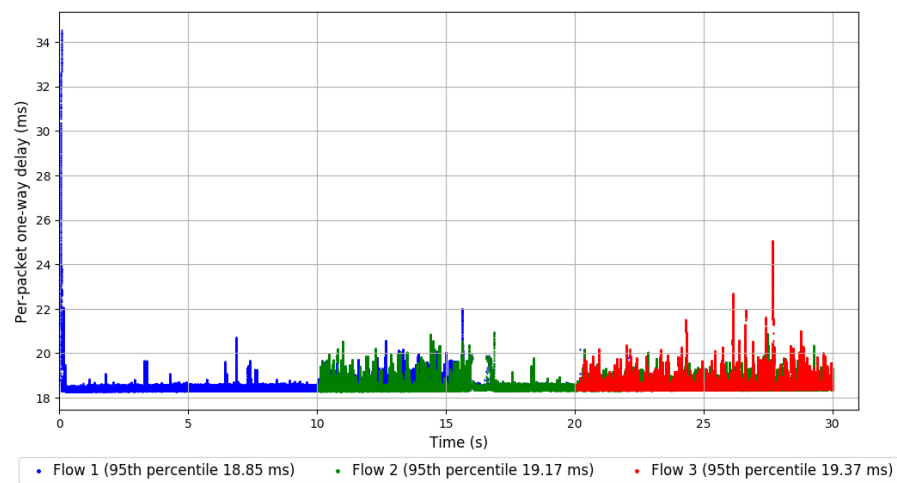
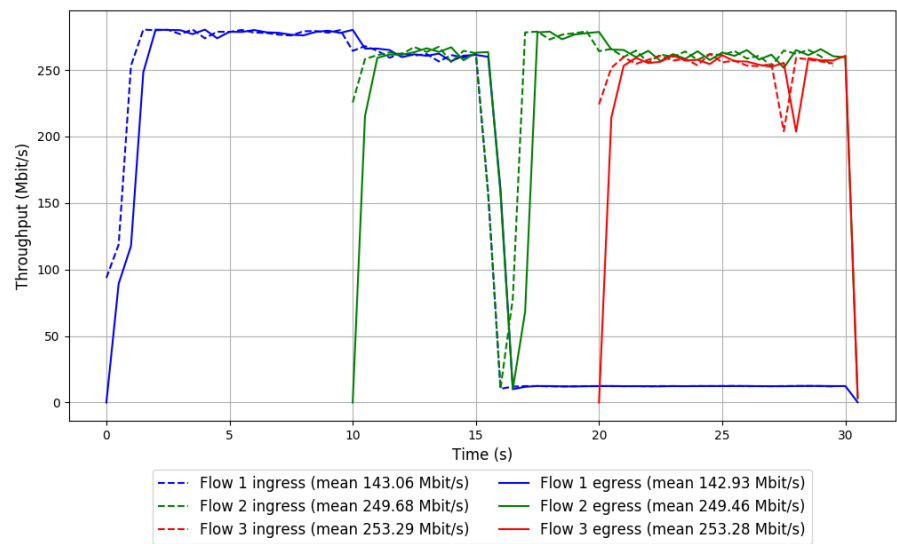
-- Flow 3:

Average throughput: 253.28 Mbit/s

95th percentile per-packet one-way delay: 19.374 ms

Loss rate: 0.01%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-08-22 06:36:18

End at: 2018-08-22 06:36:48

Local clock offset: 1.182 ms

Remote clock offset: 5.665 ms

Below is generated by plot.py at 2018-08-22 09:16:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 434.23 Mbit/s

95th percentile per-packet one-way delay: 20.580 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 234.61 Mbit/s

95th percentile per-packet one-way delay: 19.669 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 214.00 Mbit/s

95th percentile per-packet one-way delay: 21.130 ms

Loss rate: 0.02%

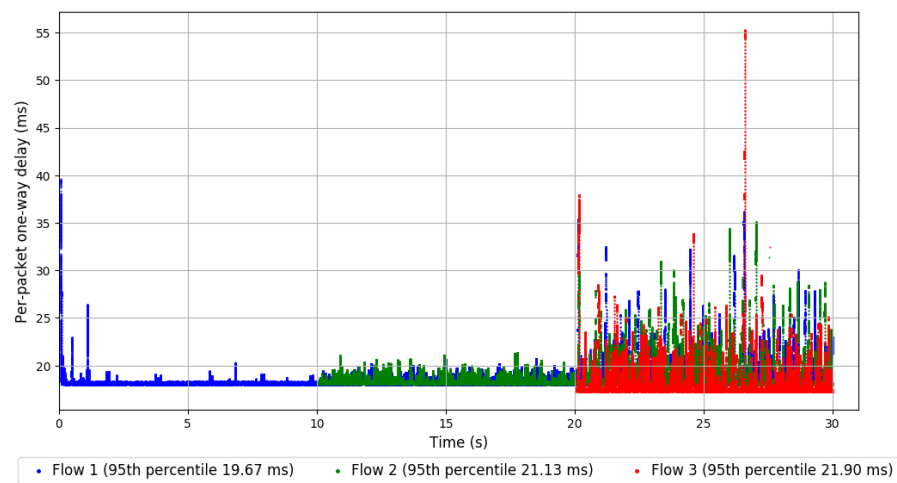
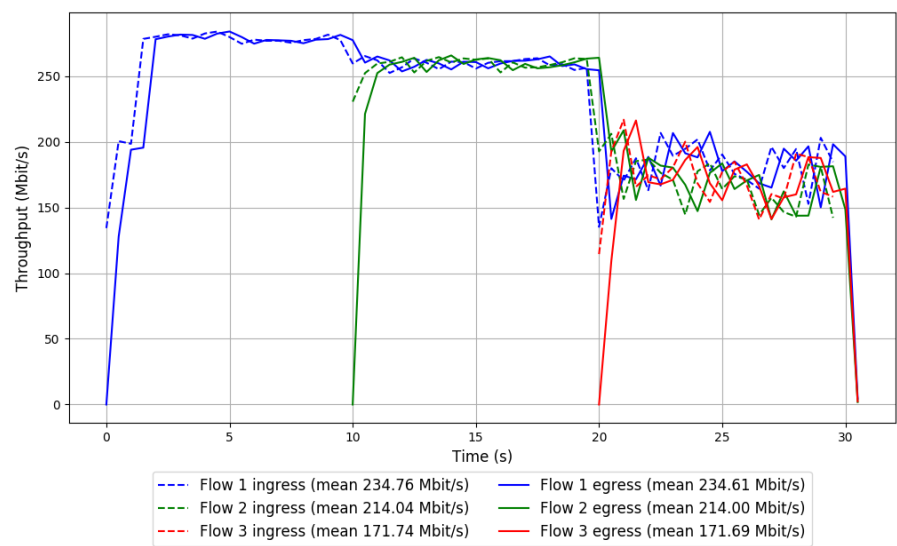
-- Flow 3:

Average throughput: 171.69 Mbit/s

95th percentile per-packet one-way delay: 21.898 ms

Loss rate: 0.03%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-08-22 02:41:40

End at: 2018-08-22 02:42:10

Local clock offset: 1.427 ms

Remote clock offset: 0.345 ms

Below is generated by plot.py at 2018-08-22 09:16:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.30 Mbit/s

95th percentile per-packet one-way delay: 19.503 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 52.76 Mbit/s

95th percentile per-packet one-way delay: 19.064 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 46.81 Mbit/s

95th percentile per-packet one-way delay: 19.270 ms

Loss rate: 0.10%

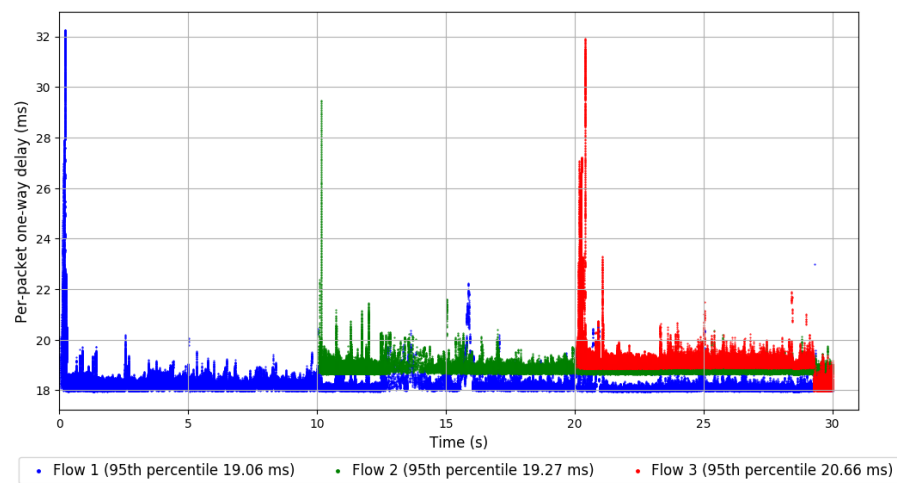
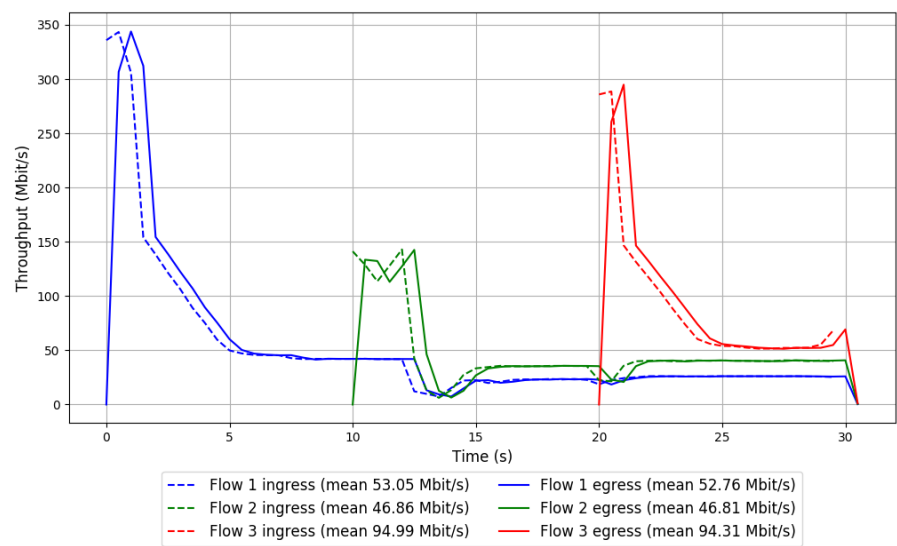
-- Flow 3:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 20.665 ms

Loss rate: 0.73%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-08-22 03:09:01

End at: 2018-08-22 03:09:31

Local clock offset: 1.812 ms

Remote clock offset: 3.021 ms

Below is generated by plot.py at 2018-08-22 09:16:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.07 Mbit/s

95th percentile per-packet one-way delay: 19.198 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 65.21 Mbit/s

95th percentile per-packet one-way delay: 19.428 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 139.74 Mbit/s

95th percentile per-packet one-way delay: 18.467 ms

Loss rate: 0.05%

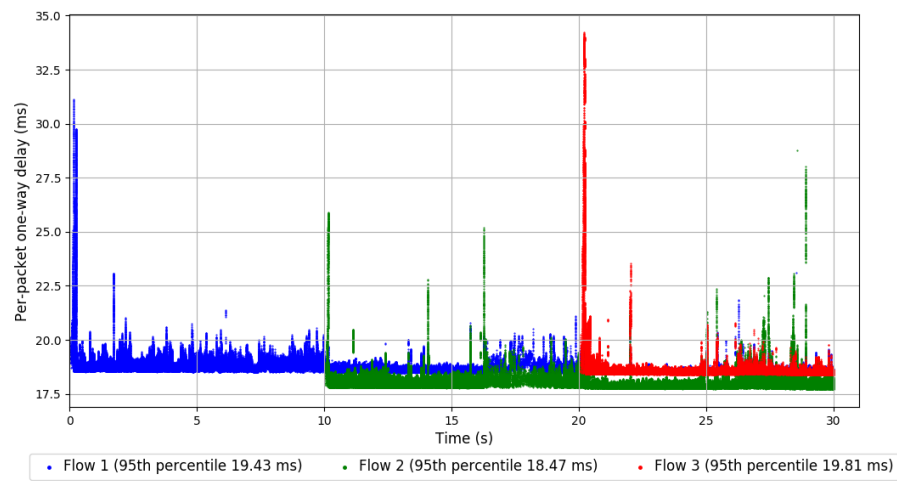
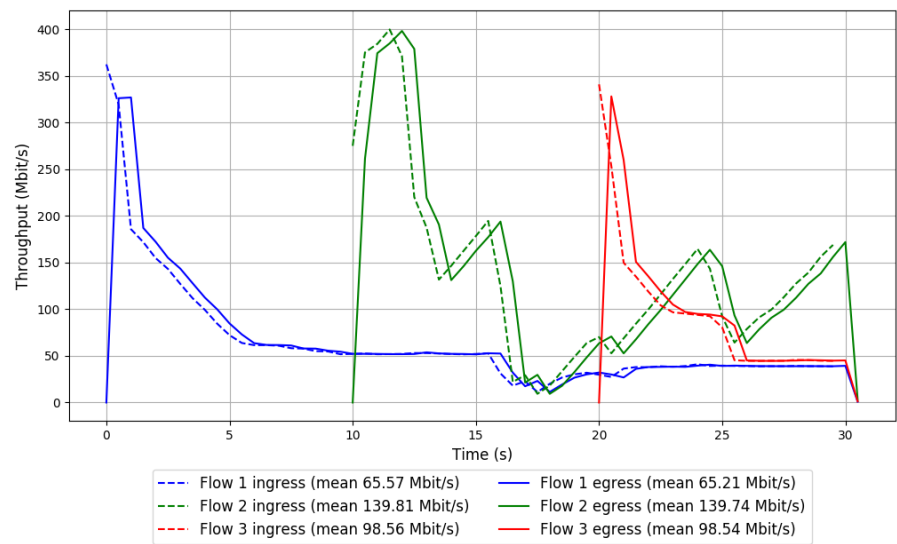
-- Flow 3:

Average throughput: 98.54 Mbit/s

95th percentile per-packet one-way delay: 19.808 ms

Loss rate: 0.02%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-08-22 03:36:17

End at: 2018-08-22 03:36:47

Local clock offset: 0.85 ms

Remote clock offset: 4.48 ms

Below is generated by plot.py at 2018-08-22 09:16:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.16 Mbit/s

95th percentile per-packet one-way delay: 19.837 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 47.66 Mbit/s

95th percentile per-packet one-way delay: 19.608 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 67.03 Mbit/s

95th percentile per-packet one-way delay: 19.307 ms

Loss rate: 0.74%

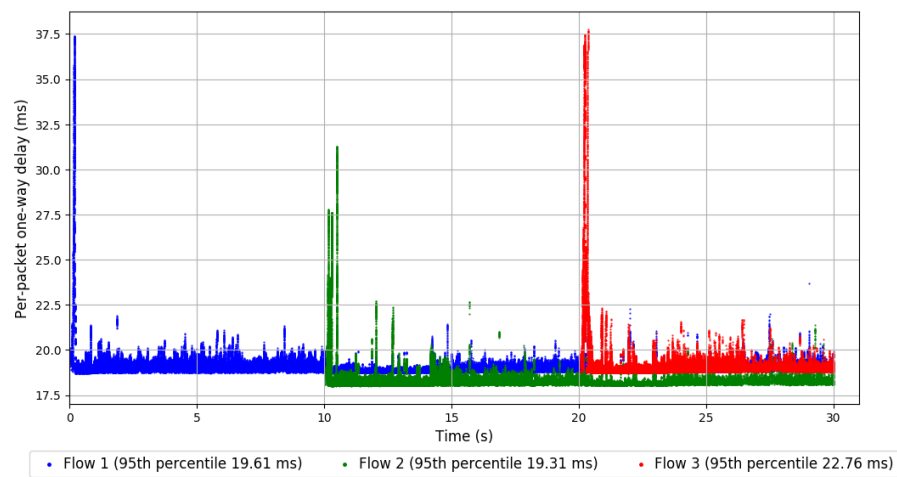
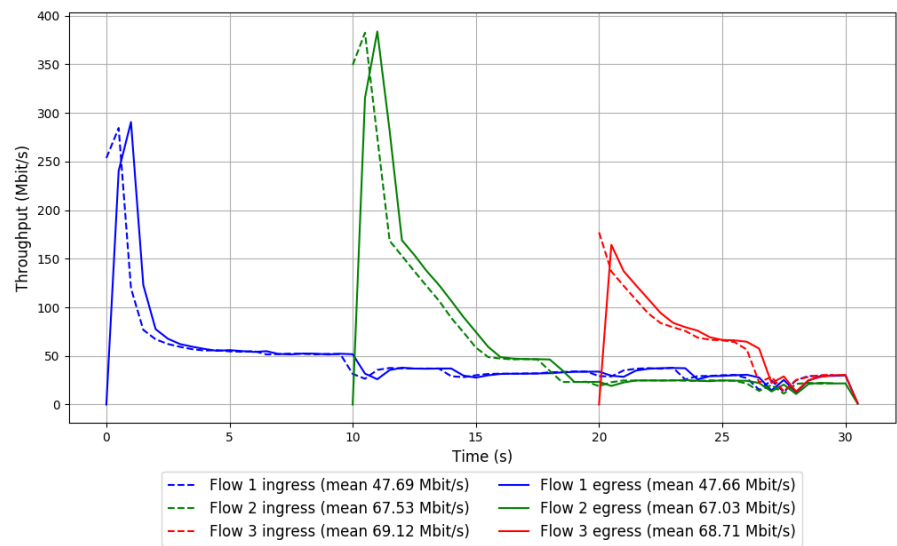
-- Flow 3:

Average throughput: 68.71 Mbit/s

95th percentile per-packet one-way delay: 22.763 ms

Loss rate: 0.59%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-08-22 04:03:40

End at: 2018-08-22 04:04:10

Local clock offset: -3.18 ms

Remote clock offset: 4.267 ms

Below is generated by plot.py at 2018-08-22 09:16:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.47 Mbit/s

95th percentile per-packet one-way delay: 18.883 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 166.20 Mbit/s

95th percentile per-packet one-way delay: 18.202 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 67.92 Mbit/s

95th percentile per-packet one-way delay: 19.192 ms

Loss rate: 0.12%

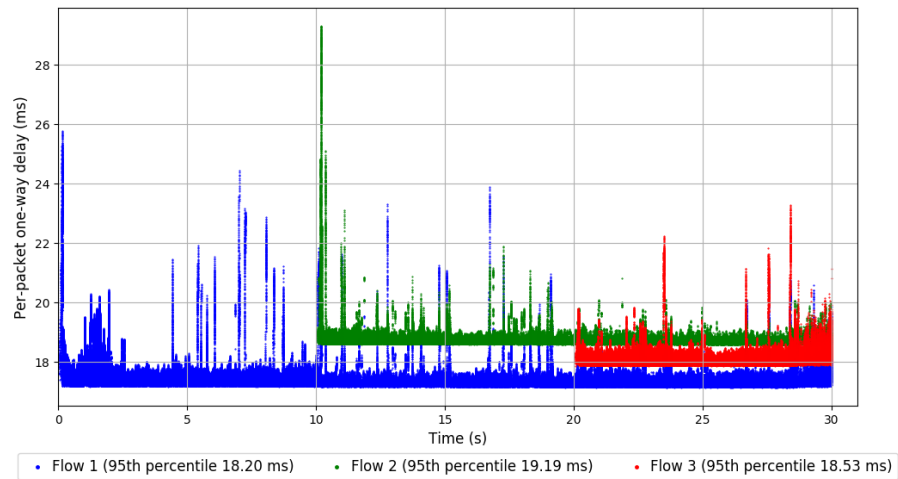
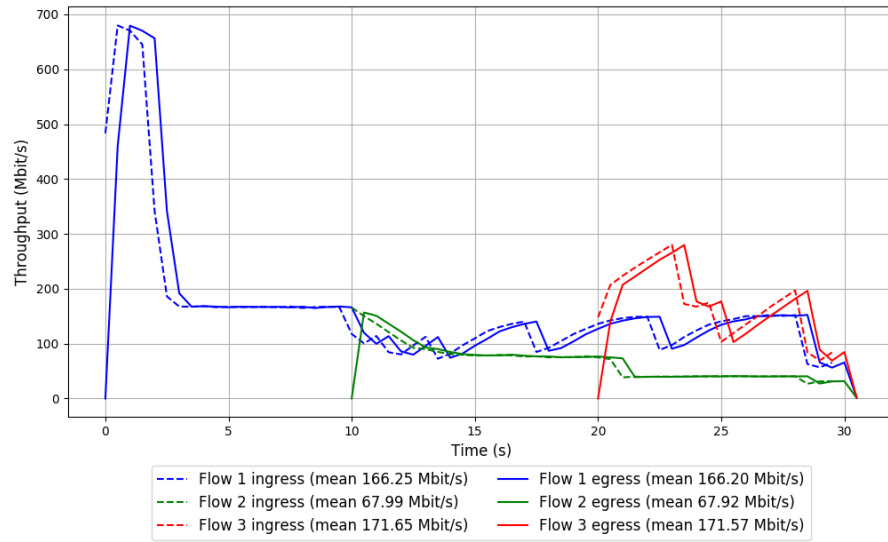
-- Flow 3:

Average throughput: 171.57 Mbit/s

95th percentile per-packet one-way delay: 18.531 ms

Loss rate: 0.03%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-08-22 04:30:55

End at: 2018-08-22 04:31:25

Local clock offset: -2.957 ms

Remote clock offset: 3.468 ms

Below is generated by plot.py at 2018-08-22 09:16:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.78 Mbit/s

95th percentile per-packet one-way delay: 19.152 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 110.44 Mbit/s

95th percentile per-packet one-way delay: 18.132 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 55.97 Mbit/s

95th percentile per-packet one-way delay: 19.716 ms

Loss rate: 0.78%

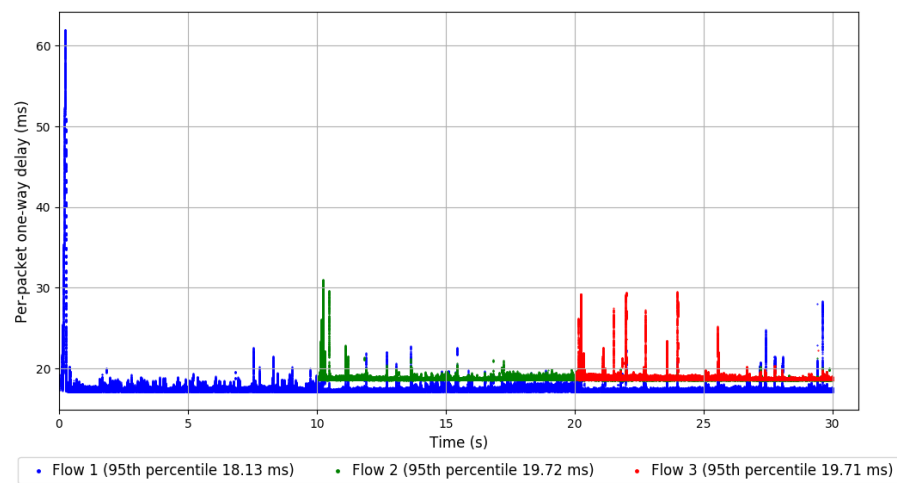
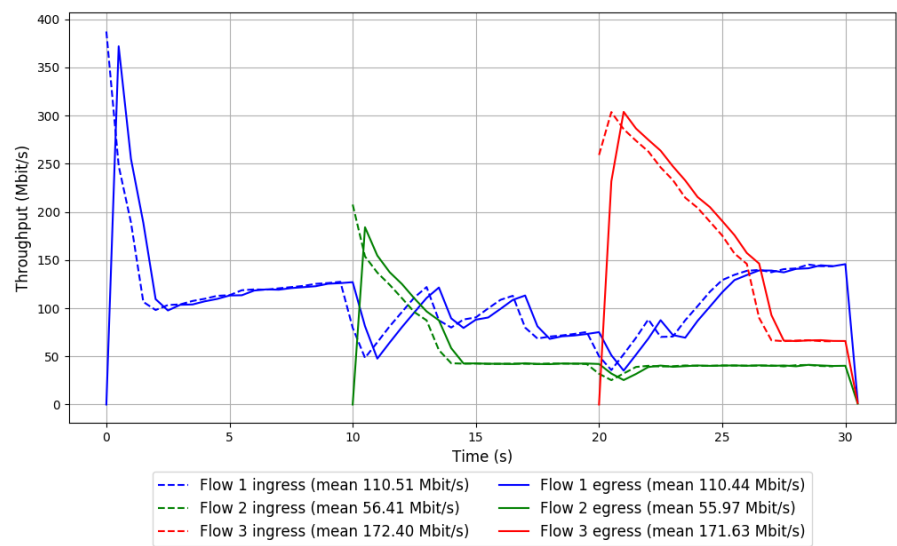
-- Flow 3:

Average throughput: 171.63 Mbit/s

95th percentile per-packet one-way delay: 19.711 ms

Loss rate: 0.45%

Run 5: Report of TCP Vegas — Data Link

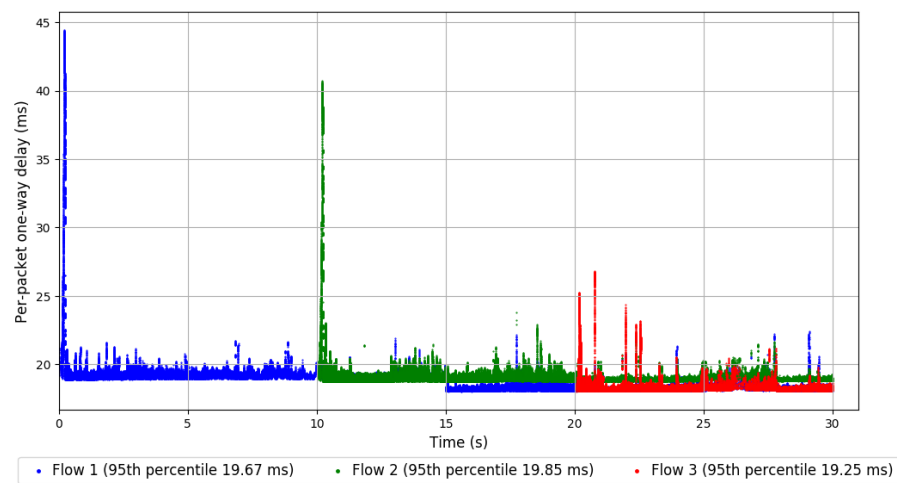
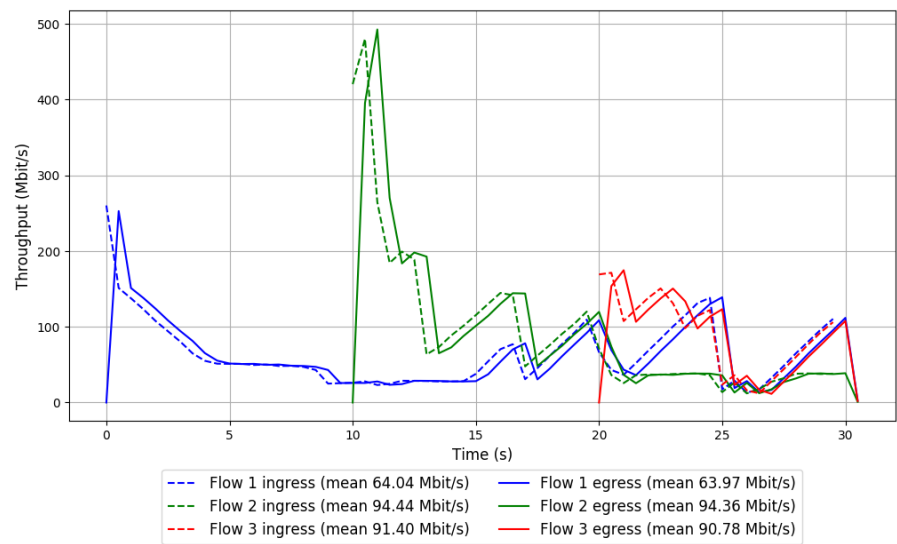


Run 6: Statistics of TCP Vegas

Start at: 2018-08-22 04:58:10
End at: 2018-08-22 04:58:40
Local clock offset: 0.85 ms
Remote clock offset: -0.563 ms

Below is generated by plot.py at 2018-08-22 09:16:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 157.01 Mbit/s
95th percentile per-packet one-way delay: 19.721 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 63.97 Mbit/s
95th percentile per-packet one-way delay: 19.668 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 94.36 Mbit/s
95th percentile per-packet one-way delay: 19.850 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 90.78 Mbit/s
95th percentile per-packet one-way delay: 19.250 ms
Loss rate: 0.68%

Run 6: Report of TCP Vegas — Data Link

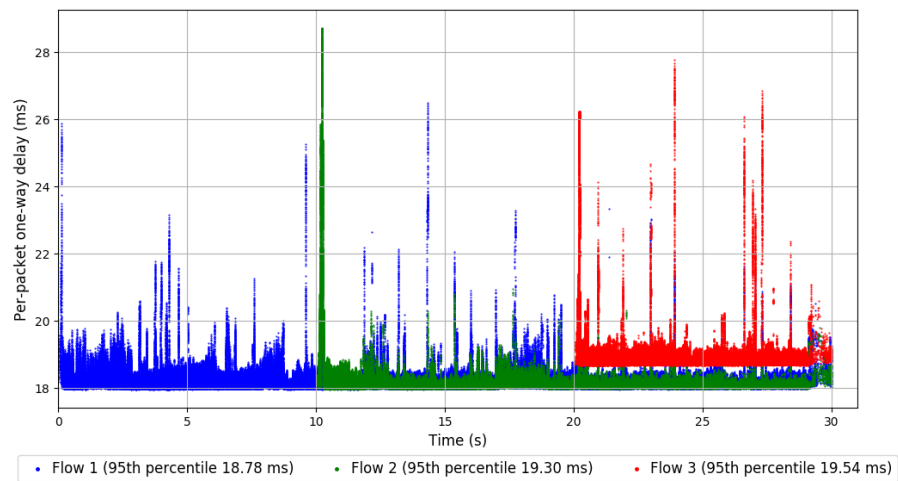
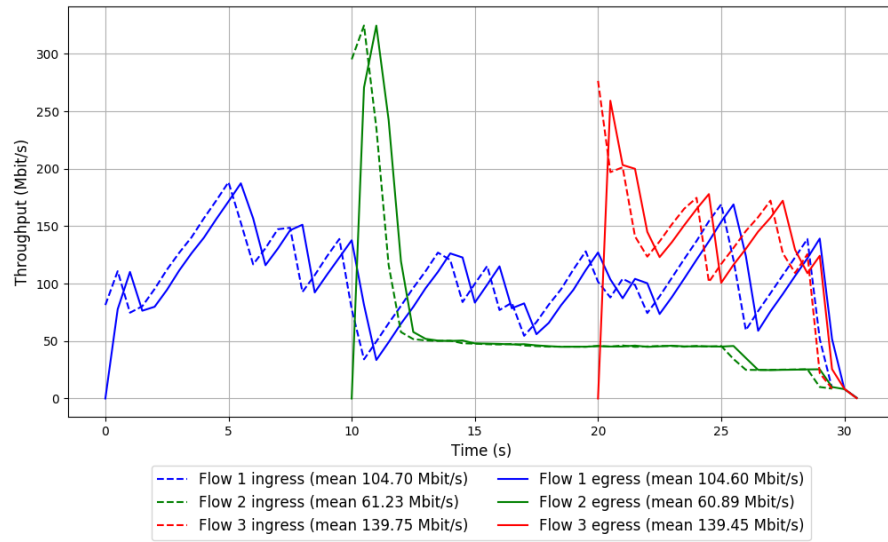


Run 7: Statistics of TCP Vegas

Start at: 2018-08-22 05:25:29
End at: 2018-08-22 05:25:59
Local clock offset: 1.021 ms
Remote clock offset: -2.533 ms

Below is generated by plot.py at 2018-08-22 09:16:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 191.51 Mbit/s
95th percentile per-packet one-way delay: 19.143 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 104.60 Mbit/s
95th percentile per-packet one-way delay: 18.779 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 60.89 Mbit/s
95th percentile per-packet one-way delay: 19.297 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 139.45 Mbit/s
95th percentile per-packet one-way delay: 19.540 ms
Loss rate: 0.21%

Run 7: Report of TCP Vegas — Data Link

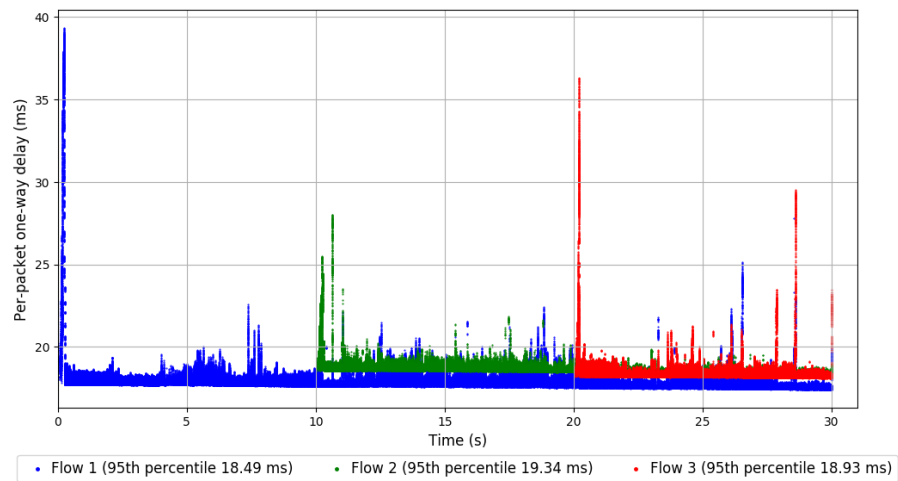
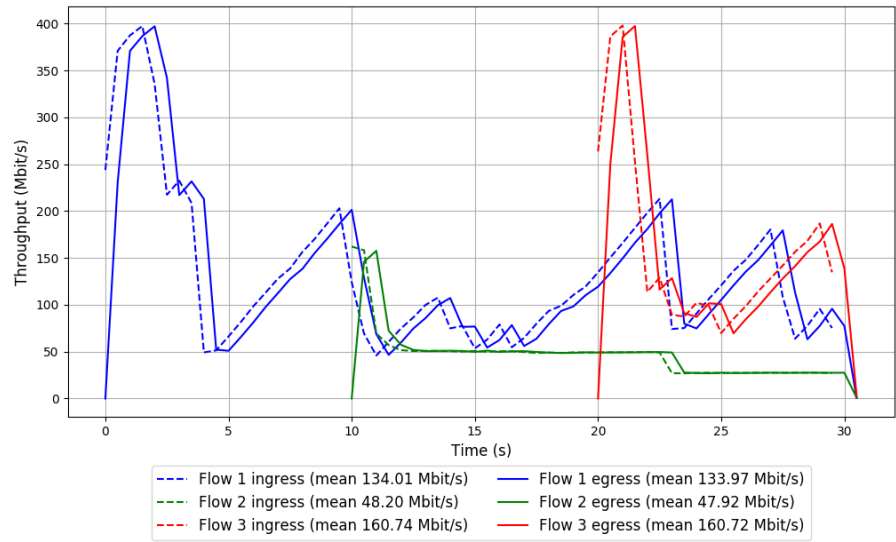


Run 8: Statistics of TCP Vegas

Start at: 2018-08-22 05:52:38
End at: 2018-08-22 05:53:08
Local clock offset: -2.22 ms
Remote clock offset: -1.218 ms

Below is generated by plot.py at 2018-08-22 09:16:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 219.28 Mbit/s
95th percentile per-packet one-way delay: 18.924 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 133.97 Mbit/s
95th percentile per-packet one-way delay: 18.490 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 47.92 Mbit/s
95th percentile per-packet one-way delay: 19.344 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 160.72 Mbit/s
95th percentile per-packet one-way delay: 18.925 ms
Loss rate: 0.01%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-08-22 06:19:35

End at: 2018-08-22 06:20:05

Local clock offset: 0.027 ms

Remote clock offset: 4.544 ms

Below is generated by plot.py at 2018-08-22 09:16:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.00 Mbit/s

95th percentile per-packet one-way delay: 19.574 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 104.90 Mbit/s

95th percentile per-packet one-way delay: 19.697 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 151.92 Mbit/s

95th percentile per-packet one-way delay: 19.522 ms

Loss rate: 0.21%

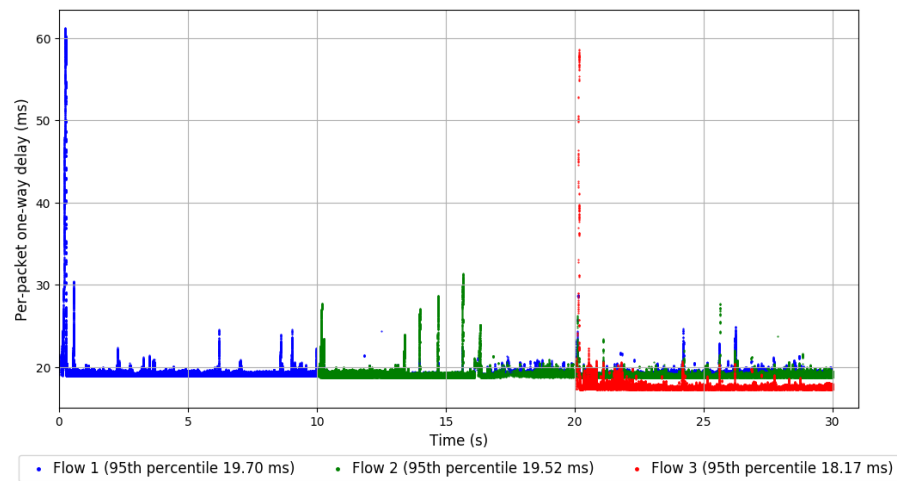
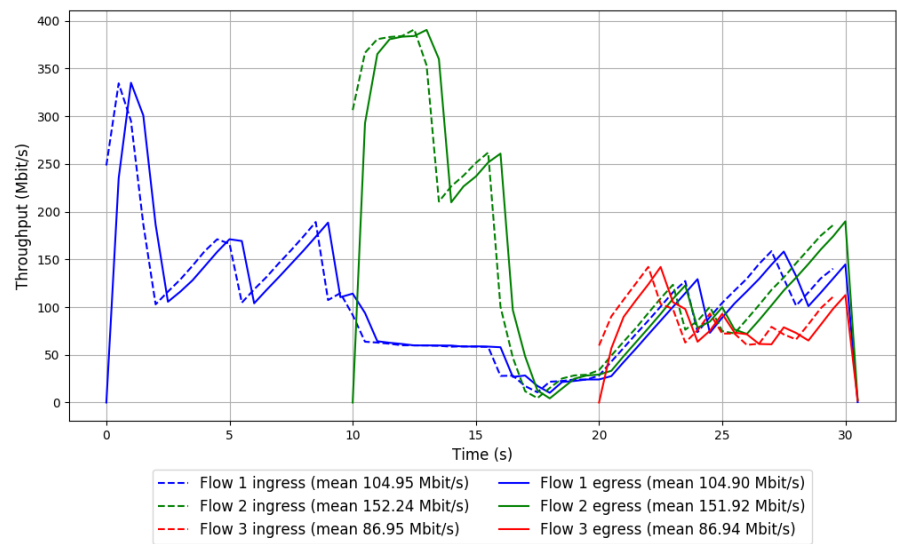
-- Flow 3:

Average throughput: 86.94 Mbit/s

95th percentile per-packet one-way delay: 18.168 ms

Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-08-22 06:46:27

End at: 2018-08-22 06:46:57

Local clock offset: 0.851 ms

Remote clock offset: 6.351 ms

Below is generated by plot.py at 2018-08-22 09:16:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 163.96 Mbit/s

95th percentile per-packet one-way delay: 19.405 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 64.29 Mbit/s

95th percentile per-packet one-way delay: 19.418 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 120.90 Mbit/s

95th percentile per-packet one-way delay: 19.452 ms

Loss rate: 0.02%

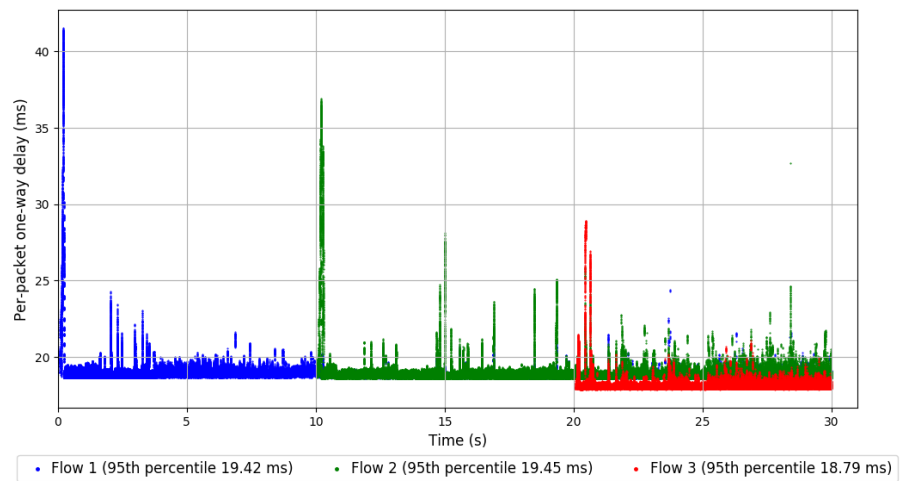
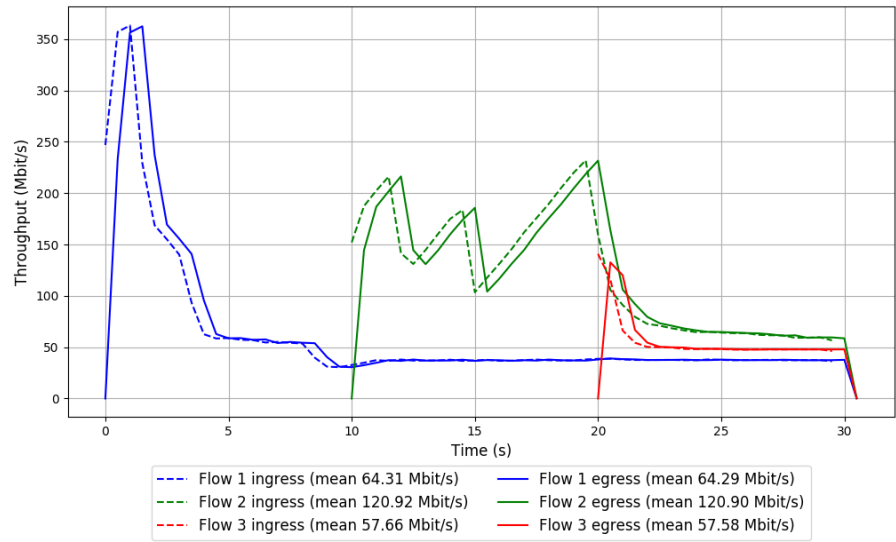
-- Flow 3:

Average throughput: 57.58 Mbit/s

95th percentile per-packet one-way delay: 18.790 ms

Loss rate: 0.14%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-22 02:33:09

End at: 2018-08-22 02:33:39

Local clock offset: 1.217 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-08-22 09:17:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 418.20 Mbit/s

95th percentile per-packet one-way delay: 51.634 ms

Loss rate: 18.69%

-- Flow 1:

Average throughput: 242.53 Mbit/s

95th percentile per-packet one-way delay: 33.987 ms

Loss rate: 16.93%

-- Flow 2:

Average throughput: 183.45 Mbit/s

95th percentile per-packet one-way delay: 69.827 ms

Loss rate: 21.75%

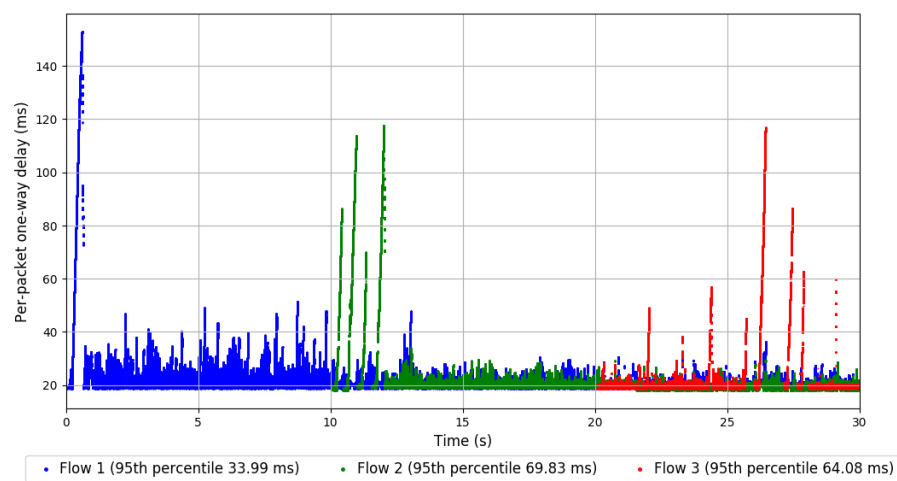
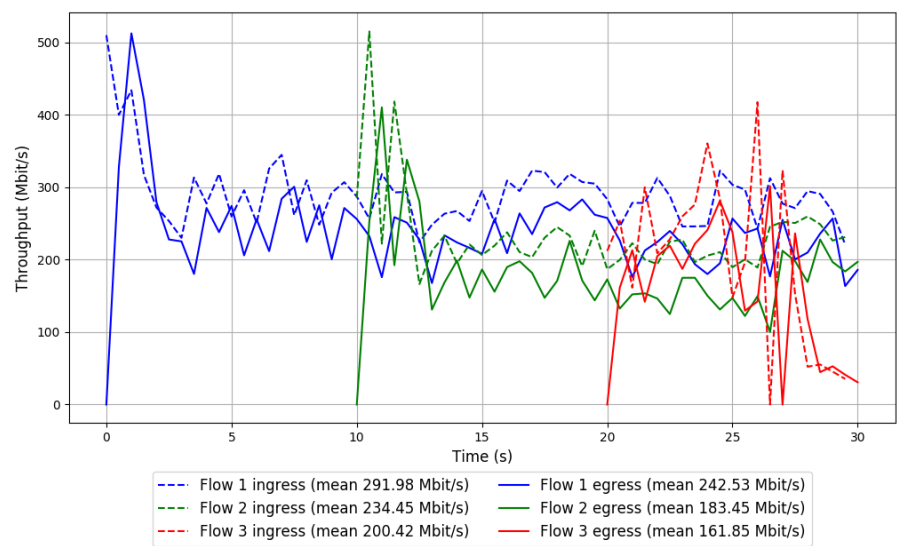
-- Flow 3:

Average throughput: 161.85 Mbit/s

95th percentile per-packet one-way delay: 64.078 ms

Loss rate: 19.24%

Run 1: Report of Verus — Data Link

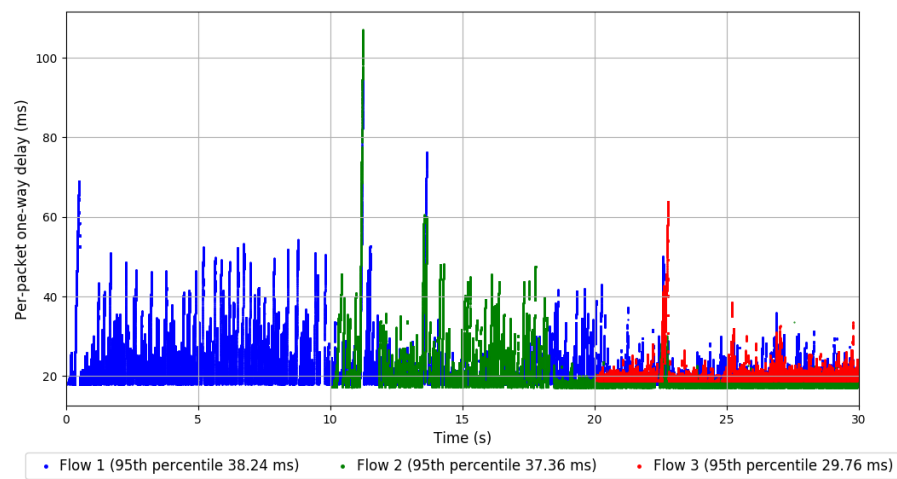
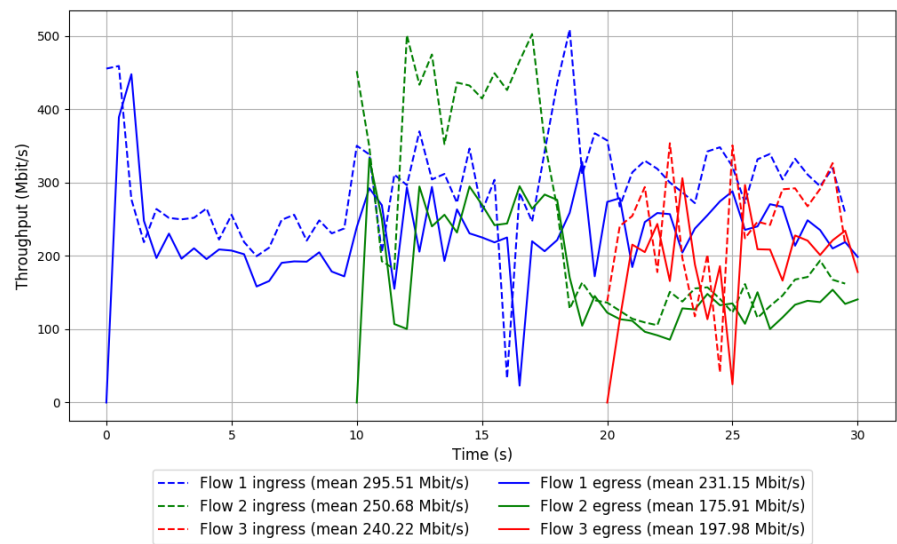


Run 2: Statistics of Verus

Start at: 2018-08-22 03:00:30
End at: 2018-08-22 03:01:00
Local clock offset: 1.755 ms
Remote clock offset: 1.447 ms

Below is generated by plot.py at 2018-08-22 09:17:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 413.64 Mbit/s
95th percentile per-packet one-way delay: 37.392 ms
Loss rate: 23.64%
-- Flow 1:
Average throughput: 231.15 Mbit/s
95th percentile per-packet one-way delay: 38.240 ms
Loss rate: 21.77%
-- Flow 2:
Average throughput: 175.91 Mbit/s
95th percentile per-packet one-way delay: 37.359 ms
Loss rate: 29.83%
-- Flow 3:
Average throughput: 197.98 Mbit/s
95th percentile per-packet one-way delay: 29.763 ms
Loss rate: 17.60%

Run 2: Report of Verus — Data Link

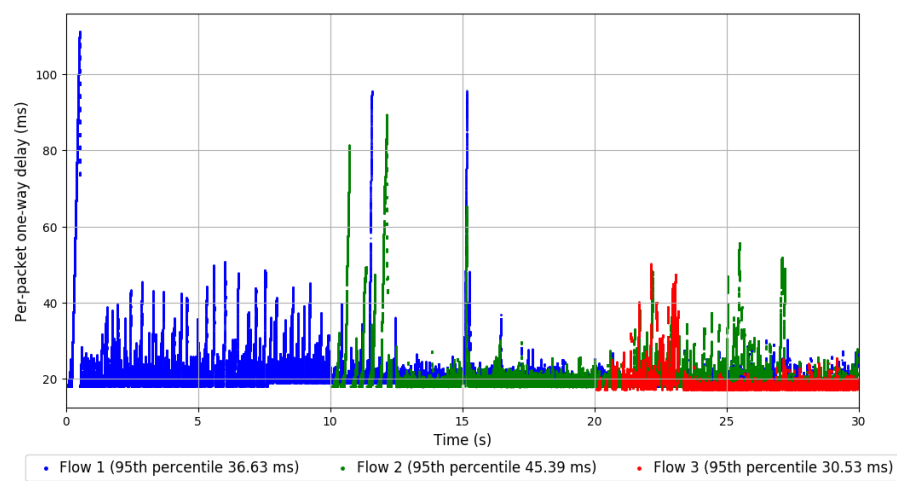
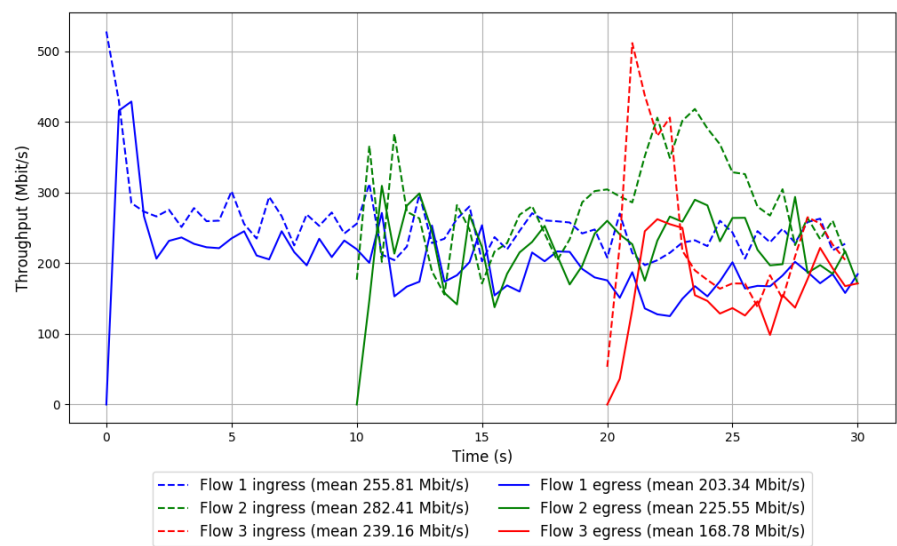


Run 3: Statistics of Verus

Start at: 2018-08-22 03:27:54
End at: 2018-08-22 03:28:24
Local clock offset: 0.787 ms
Remote clock offset: 4.771 ms

Below is generated by plot.py at 2018-08-22 09:17:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 409.17 Mbit/s
95th percentile per-packet one-way delay: 38.436 ms
Loss rate: 21.72%
-- Flow 1:
Average throughput: 203.34 Mbit/s
95th percentile per-packet one-way delay: 36.626 ms
Loss rate: 20.51%
-- Flow 2:
Average throughput: 225.55 Mbit/s
95th percentile per-packet one-way delay: 45.387 ms
Loss rate: 20.13%
-- Flow 3:
Average throughput: 168.78 Mbit/s
95th percentile per-packet one-way delay: 30.534 ms
Loss rate: 29.41%

Run 3: Report of Verus — Data Link

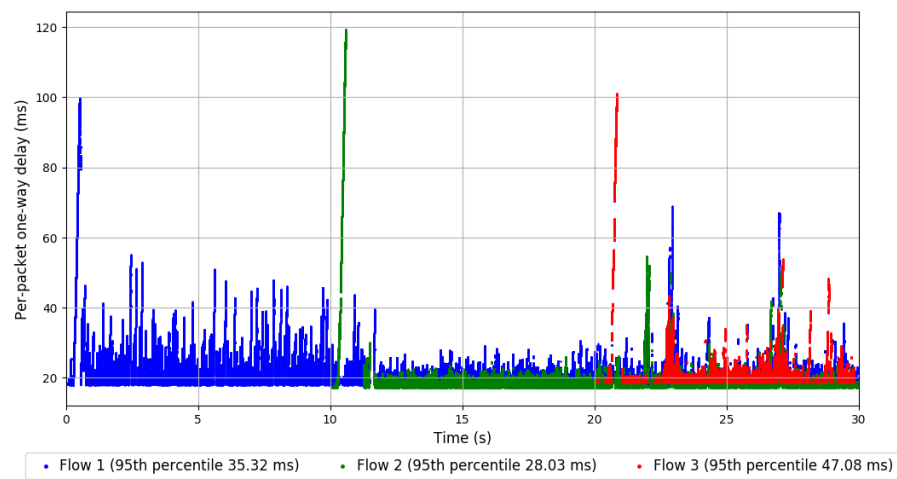
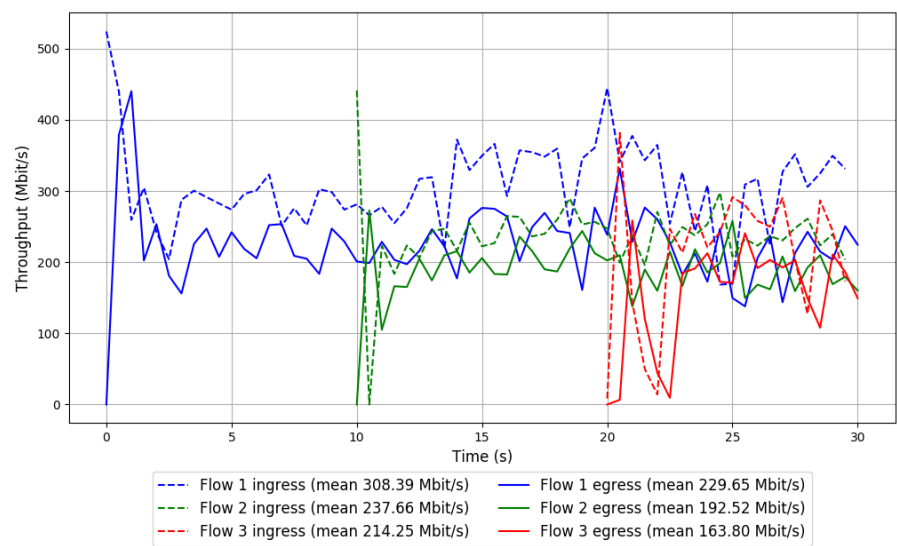


Run 4: Statistics of Verus

Start at: 2018-08-22 03:55:11
End at: 2018-08-22 03:55:41
Local clock offset: -2.599 ms
Remote clock offset: 3.978 ms

Below is generated by plot.py at 2018-08-22 09:19:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 411.39 Mbit/s
95th percentile per-packet one-way delay: 35.108 ms
Loss rate: 23.34%
-- Flow 1:
Average throughput: 229.65 Mbit/s
95th percentile per-packet one-way delay: 35.320 ms
Loss rate: 25.53%
-- Flow 2:
Average throughput: 192.52 Mbit/s
95th percentile per-packet one-way delay: 28.032 ms
Loss rate: 18.99%
-- Flow 3:
Average throughput: 163.80 Mbit/s
95th percentile per-packet one-way delay: 47.077 ms
Loss rate: 23.54%

Run 4: Report of Verus — Data Link

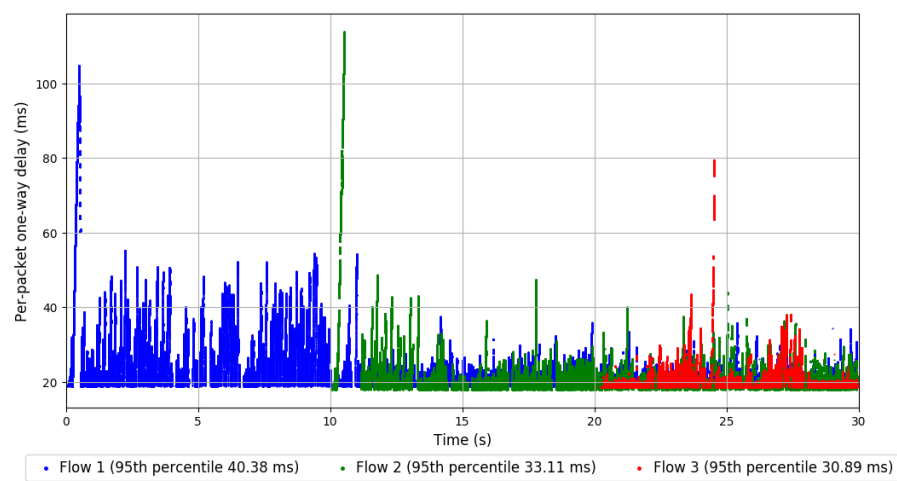
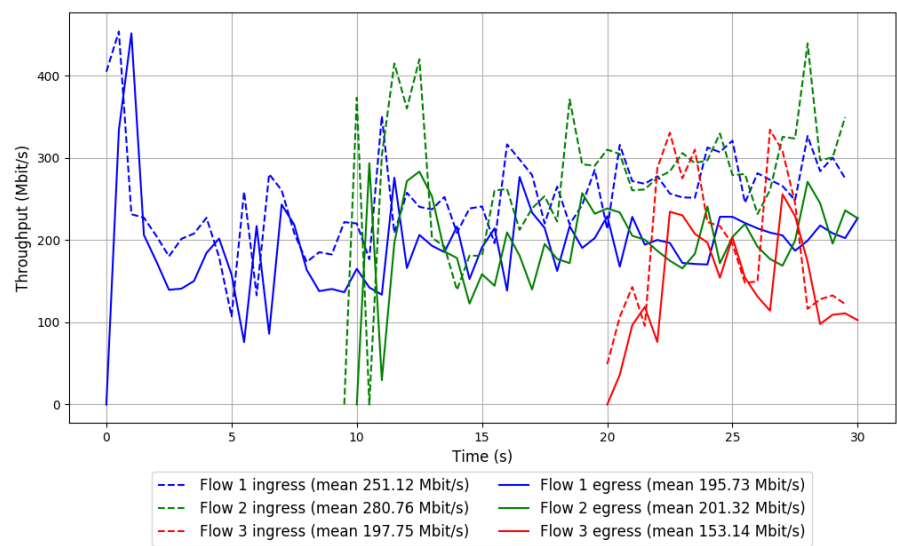


Run 5: Statistics of Verus

Start at: 2018-08-22 04:22:31
End at: 2018-08-22 04:23:01
Local clock offset: -2.876 ms
Remote clock offset: 3.377 ms

Below is generated by plot.py at 2018-08-22 09:19:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 380.34 Mbit/s
95th percentile per-packet one-way delay: 36.587 ms
Loss rate: 24.43%
-- Flow 1:
Average throughput: 195.73 Mbit/s
95th percentile per-packet one-way delay: 40.378 ms
Loss rate: 22.06%
-- Flow 2:
Average throughput: 201.32 Mbit/s
95th percentile per-packet one-way delay: 33.109 ms
Loss rate: 28.28%
-- Flow 3:
Average throughput: 153.14 Mbit/s
95th percentile per-packet one-way delay: 30.886 ms
Loss rate: 22.55%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-08-22 04:49:45

End at: 2018-08-22 04:50:15

Local clock offset: 0.055 ms

Remote clock offset: 0.685 ms

Below is generated by plot.py at 2018-08-22 09:19:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 401.08 Mbit/s

95th percentile per-packet one-way delay: 33.403 ms

Loss rate: 25.58%

-- Flow 1:

Average throughput: 219.81 Mbit/s

95th percentile per-packet one-way delay: 39.444 ms

Loss rate: 24.68%

-- Flow 2:

Average throughput: 175.78 Mbit/s

95th percentile per-packet one-way delay: 28.909 ms

Loss rate: 26.26%

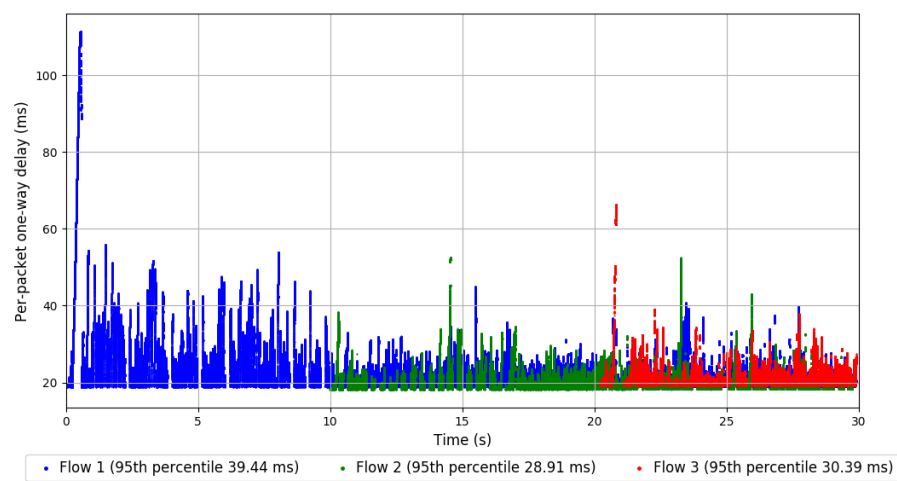
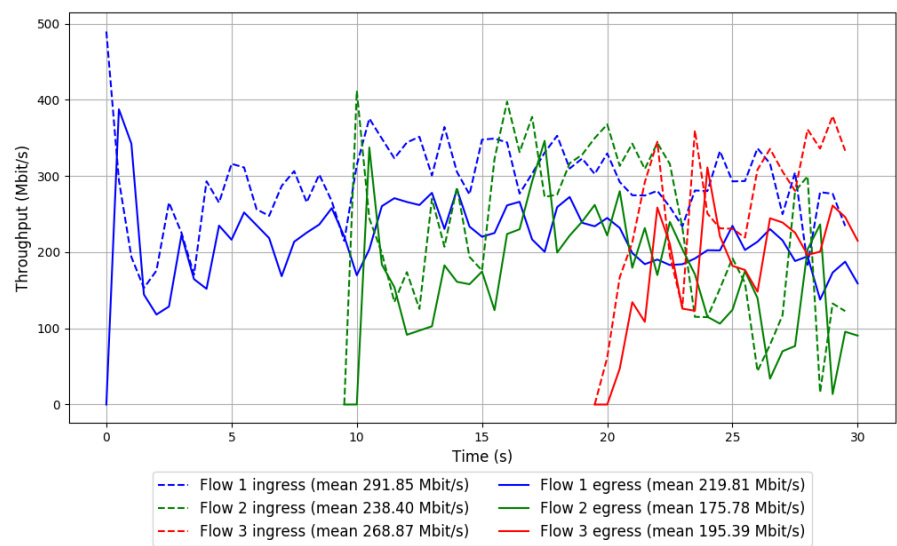
-- Flow 3:

Average throughput: 195.39 Mbit/s

95th percentile per-packet one-way delay: 30.394 ms

Loss rate: 27.32%

Run 6: Report of Verus — Data Link

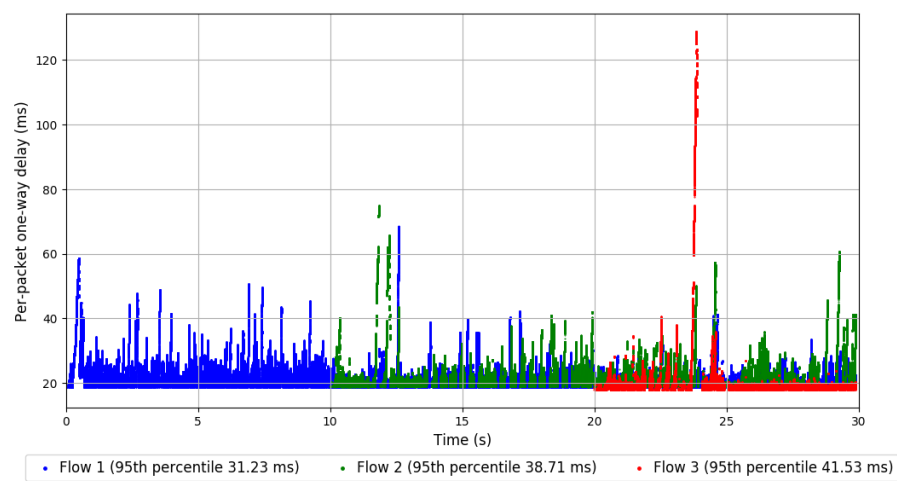
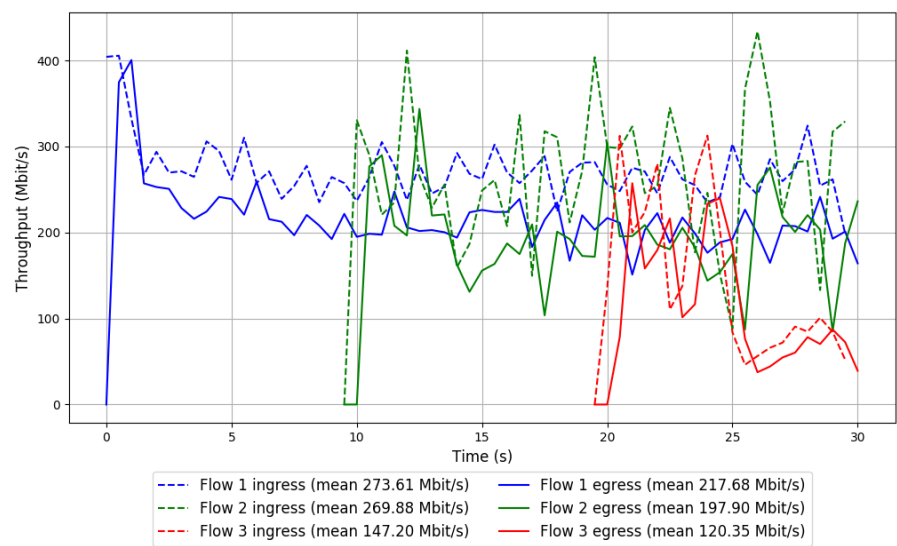


Run 7: Statistics of Verus

Start at: 2018-08-22 05:17:04
End at: 2018-08-22 05:17:34
Local clock offset: 0.996 ms
Remote clock offset: -2.043 ms

Below is generated by plot.py at 2018-08-22 09:20:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 389.55 Mbit/s
95th percentile per-packet one-way delay: 35.347 ms
Loss rate: 22.42%
-- Flow 1:
Average throughput: 217.68 Mbit/s
95th percentile per-packet one-way delay: 31.226 ms
Loss rate: 20.43%
-- Flow 2:
Average throughput: 197.90 Mbit/s
95th percentile per-packet one-way delay: 38.706 ms
Loss rate: 26.59%
-- Flow 3:
Average throughput: 120.35 Mbit/s
95th percentile per-packet one-way delay: 41.527 ms
Loss rate: 18.23%

Run 7: Report of Verus — Data Link

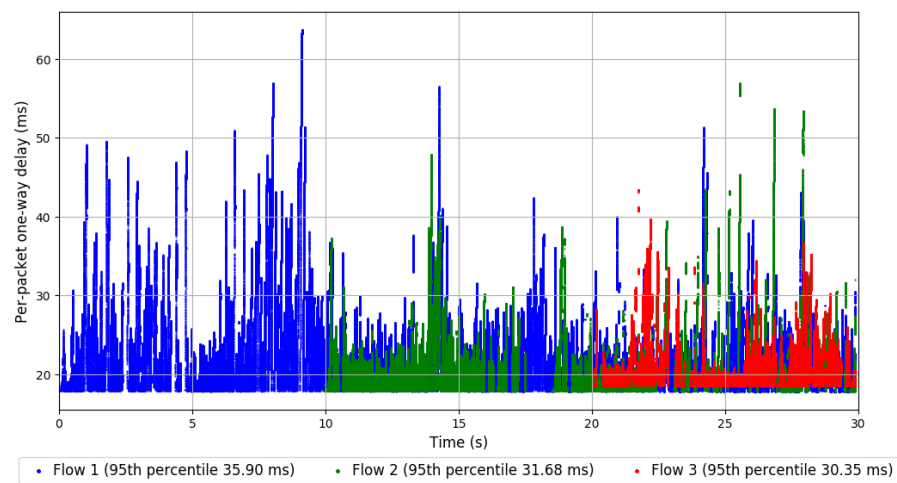
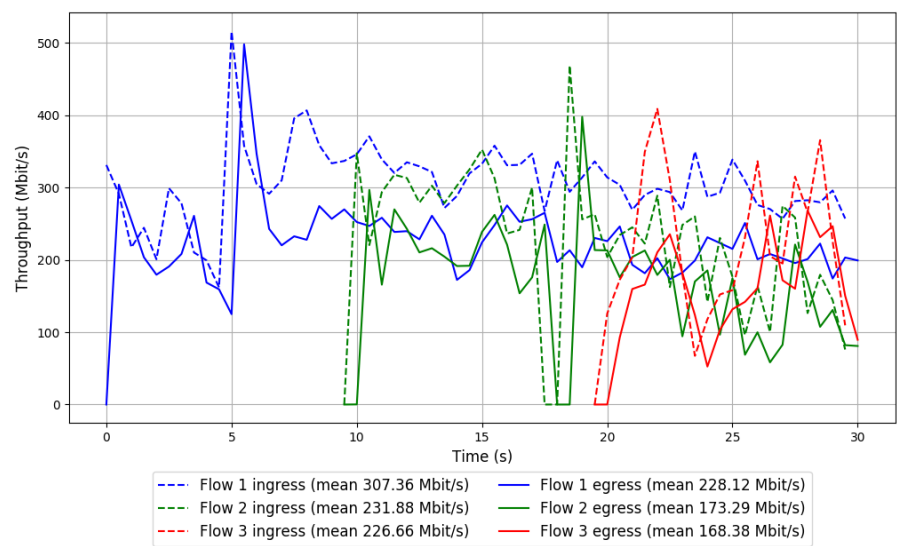


Run 8: Statistics of Verus

Start at: 2018-08-22 05:44:14
End at: 2018-08-22 05:44:44
Local clock offset: -0.989 ms
Remote clock offset: -3.624 ms

Below is generated by plot.py at 2018-08-22 09:21:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 399.72 Mbit/s
95th percentile per-packet one-way delay: 33.771 ms
Loss rate: 25.60%
-- Flow 1:
Average throughput: 228.12 Mbit/s
95th percentile per-packet one-way delay: 35.903 ms
Loss rate: 25.75%
-- Flow 2:
Average throughput: 173.29 Mbit/s
95th percentile per-packet one-way delay: 31.676 ms
Loss rate: 25.26%
-- Flow 3:
Average throughput: 168.38 Mbit/s
95th percentile per-packet one-way delay: 30.349 ms
Loss rate: 25.71%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-08-22 06:11:16

End at: 2018-08-22 06:11:46

Local clock offset: -1.79 ms

Remote clock offset: 3.669 ms

Below is generated by plot.py at 2018-08-22 09:22:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 394.61 Mbit/s

95th percentile per-packet one-way delay: 36.260 ms

Loss rate: 23.42%

-- Flow 1:

Average throughput: 219.90 Mbit/s

95th percentile per-packet one-way delay: 39.618 ms

Loss rate: 26.75%

-- Flow 2:

Average throughput: 189.92 Mbit/s

95th percentile per-packet one-way delay: 32.678 ms

Loss rate: 16.19%

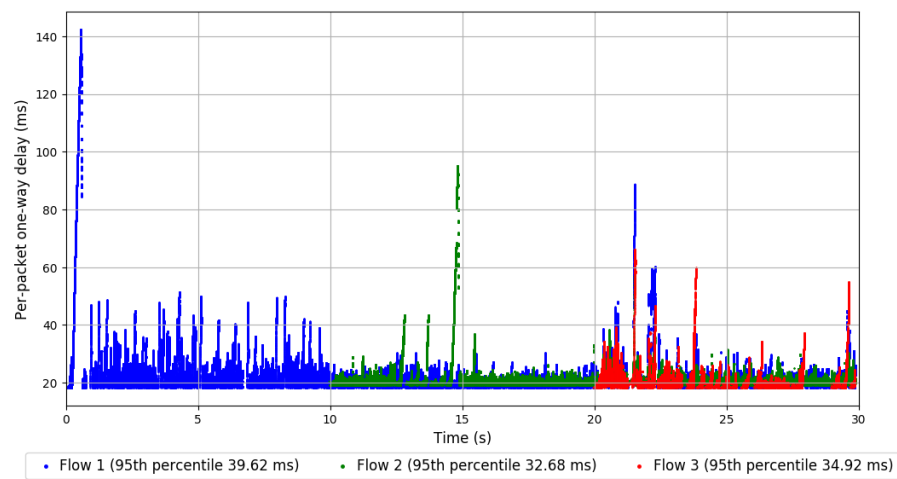
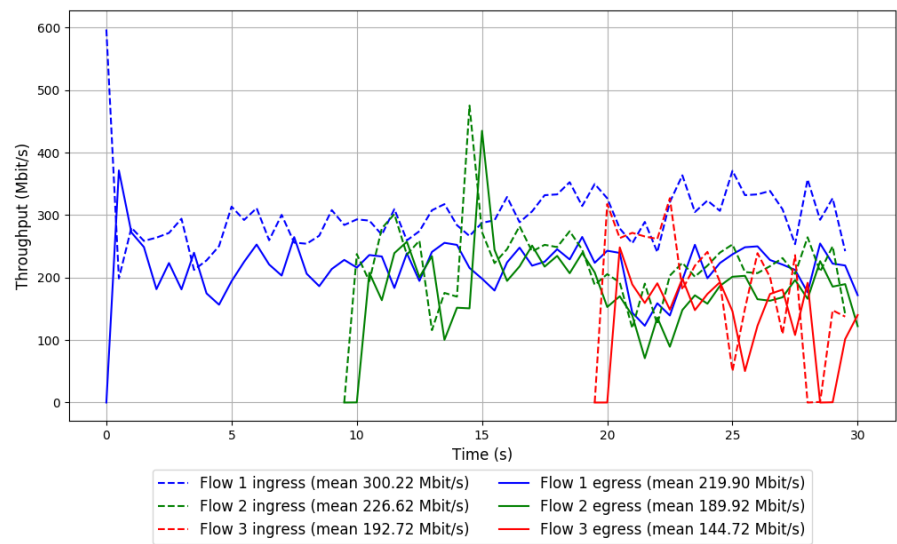
-- Flow 3:

Average throughput: 144.72 Mbit/s

95th percentile per-packet one-way delay: 34.919 ms

Loss rate: 24.87%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-08-22 06:38:03

End at: 2018-08-22 06:38:33

Local clock offset: 1.172 ms

Remote clock offset: 5.793 ms

Below is generated by plot.py at 2018-08-22 09:22:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.57 Mbit/s

95th percentile per-packet one-way delay: 34.278 ms

Loss rate: 22.24%

-- Flow 1:

Average throughput: 185.80 Mbit/s

95th percentile per-packet one-way delay: 40.421 ms

Loss rate: 22.75%

-- Flow 2:

Average throughput: 213.41 Mbit/s

95th percentile per-packet one-way delay: 29.035 ms

Loss rate: 22.59%

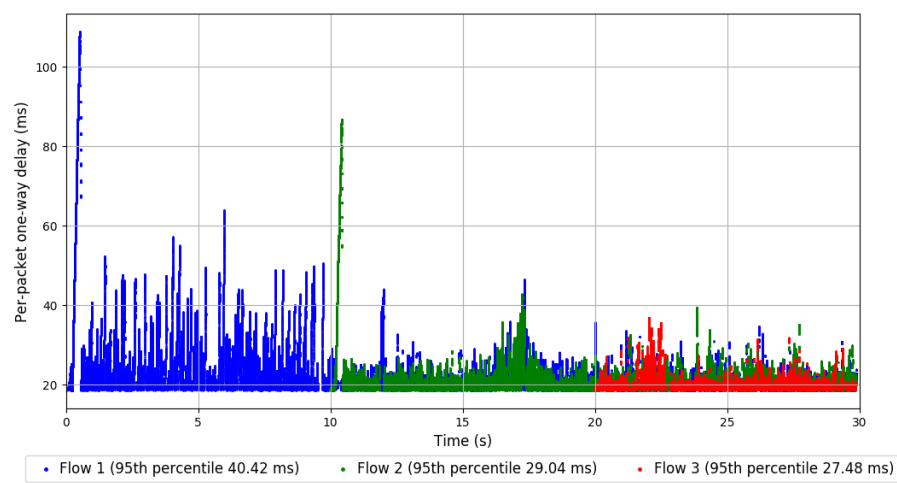
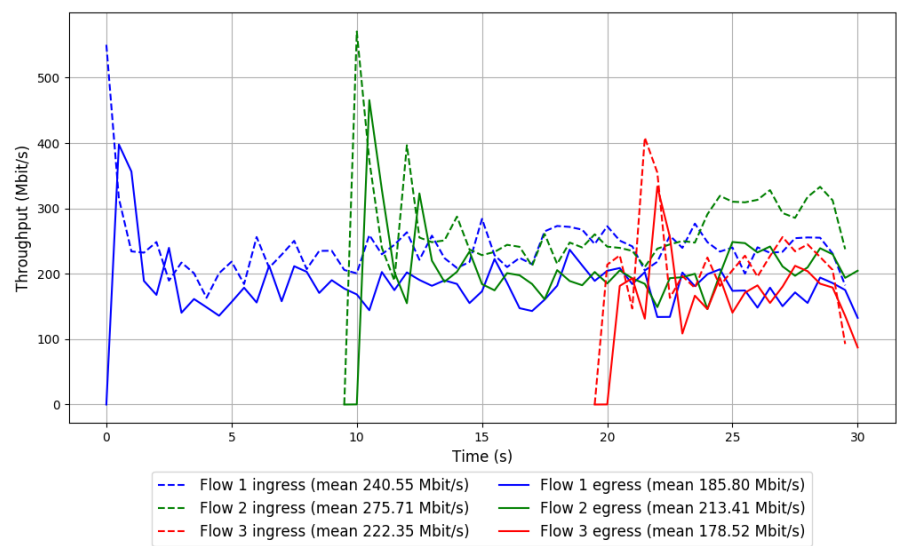
-- Flow 3:

Average throughput: 178.52 Mbit/s

95th percentile per-packet one-way delay: 27.482 ms

Loss rate: 19.70%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-22 02:29:38

End at: 2018-08-22 02:30:08

Local clock offset: 1.059 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-08-22 09:24:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 593.74 Mbit/s

95th percentile per-packet one-way delay: 23.708 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 368.07 Mbit/s

95th percentile per-packet one-way delay: 27.508 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 314.93 Mbit/s

95th percentile per-packet one-way delay: 21.369 ms

Loss rate: 0.48%

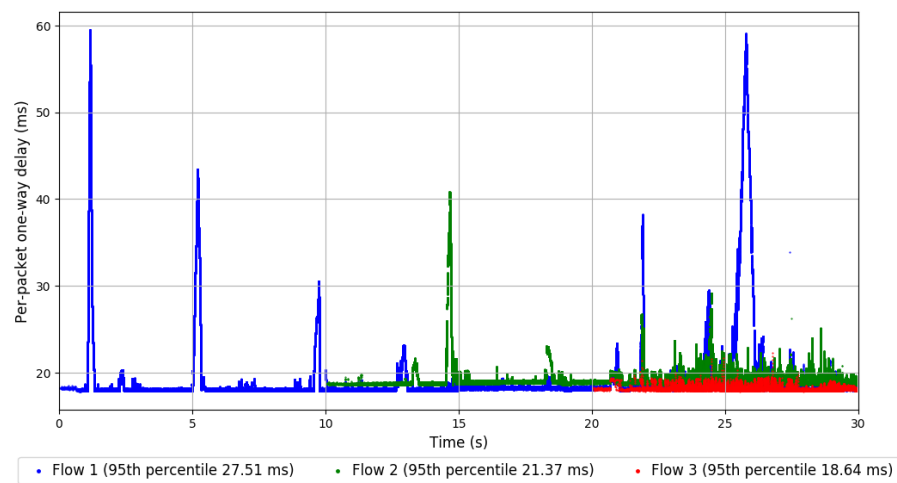
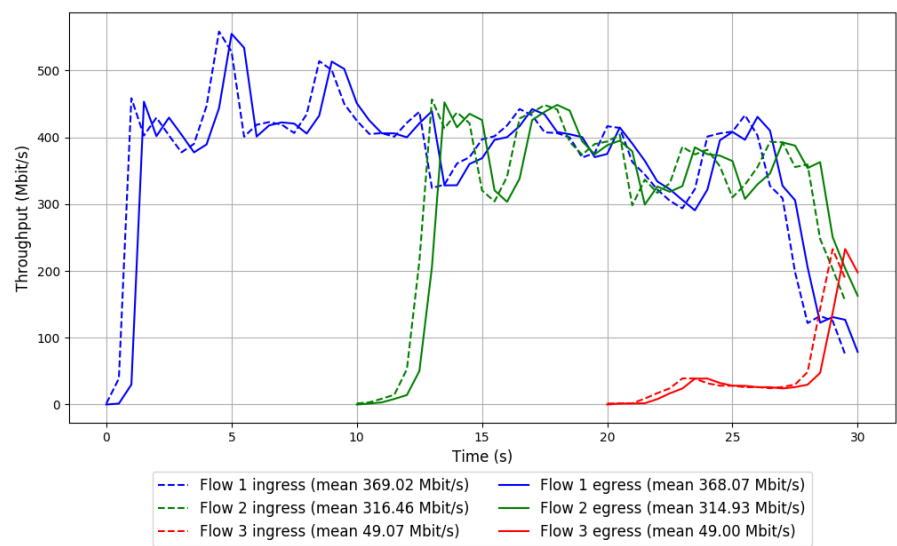
-- Flow 3:

Average throughput: 49.00 Mbit/s

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

Loss rate: 0.14%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-22 02:56:58

End at: 2018-08-22 02:57:28

Local clock offset: 1.73 ms

Remote clock offset: 0.798 ms

Below is generated by plot.py at 2018-08-22 09:26:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 599.37 Mbit/s

95th percentile per-packet one-way delay: 22.172 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 370.83 Mbit/s

95th percentile per-packet one-way delay: 23.198 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 328.01 Mbit/s

95th percentile per-packet one-way delay: 20.966 ms

Loss rate: 0.28%

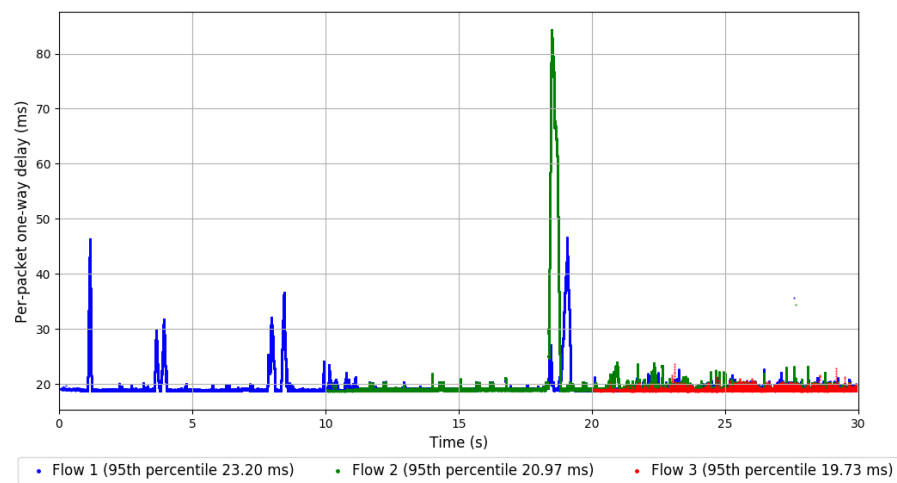
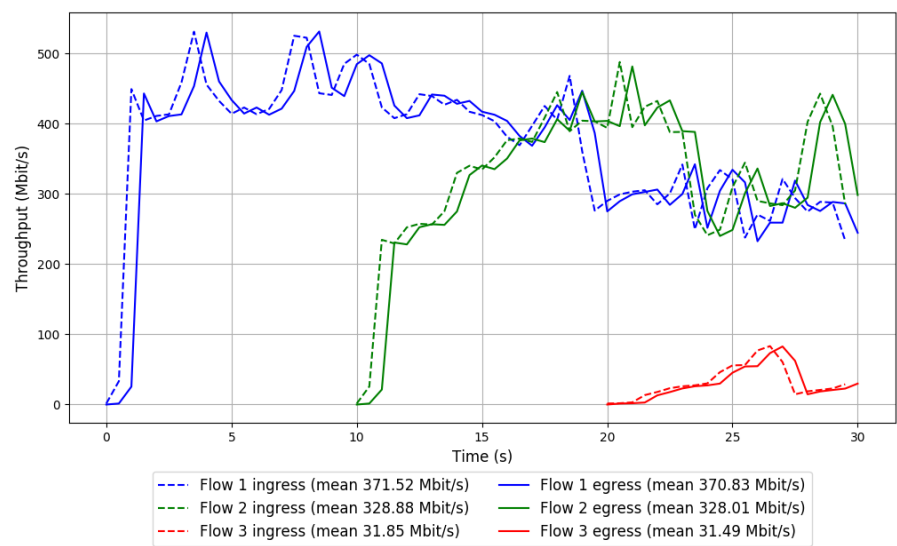
-- Flow 3:

Average throughput: 31.49 Mbit/s

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

Loss rate: 1.13%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-22 03:24:24

End at: 2018-08-22 03:24:54

Local clock offset: 0.92 ms

Remote clock offset: 4.564 ms

Below is generated by plot.py at 2018-08-22 09:26:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 555.92 Mbit/s

95th percentile per-packet one-way delay: 20.245 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 339.09 Mbit/s

95th percentile per-packet one-way delay: 20.196 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 295.18 Mbit/s

95th percentile per-packet one-way delay: 20.296 ms

Loss rate: 0.54%

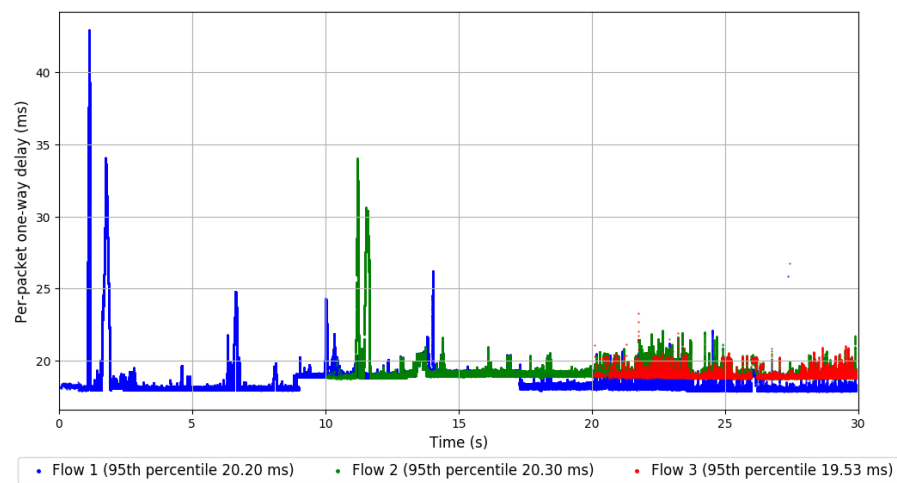
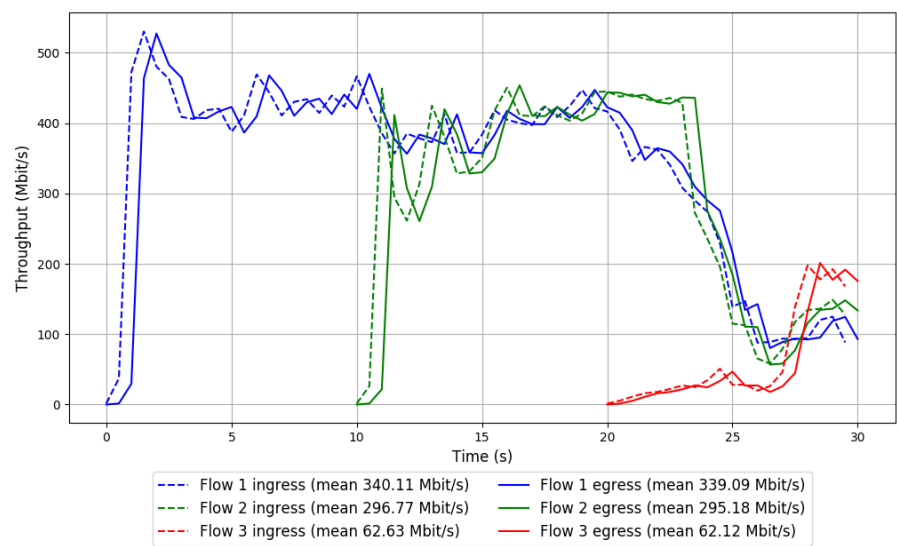
-- Flow 3:

Average throughput: 62.12 Mbit/s

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

Loss rate: 0.81%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-22 03:51:41

End at: 2018-08-22 03:52:11

Local clock offset: -2.28 ms

Remote clock offset: 3.914 ms

Below is generated by plot.py at 2018-08-22 09:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 561.31 Mbit/s

95th percentile per-packet one-way delay: 24.285 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 349.00 Mbit/s

95th percentile per-packet one-way delay: 32.556 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 245.46 Mbit/s

95th percentile per-packet one-way delay: 19.786 ms

Loss rate: 0.29%

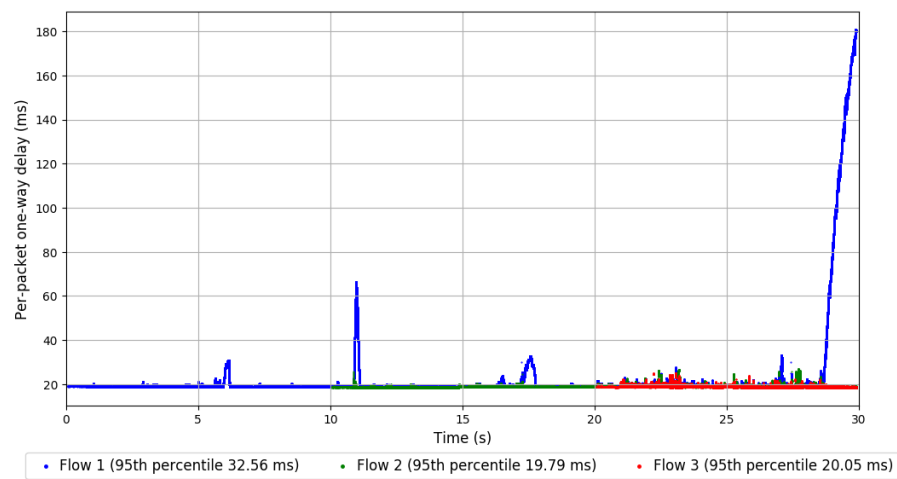
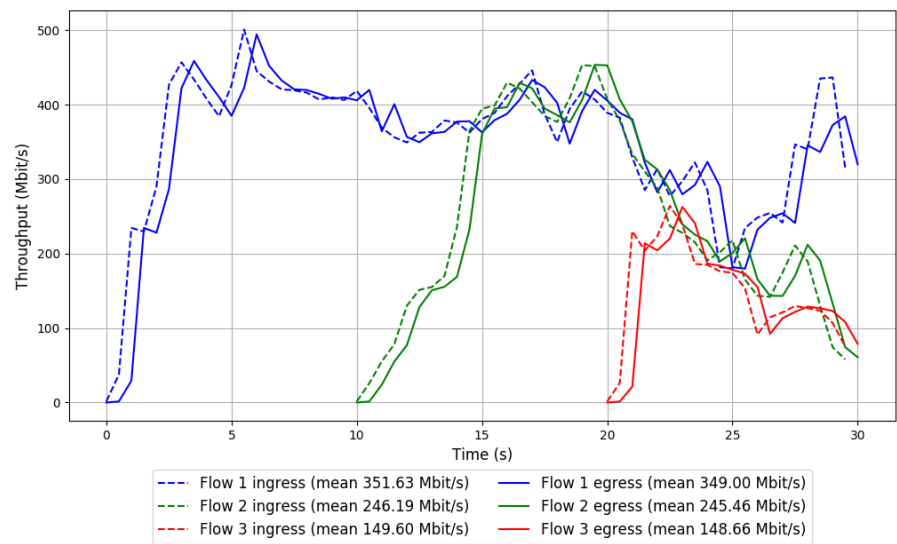
-- Flow 3:

Average throughput: 148.66 Mbit/s

95th percentile per-packet one-way delay: 20.054 ms

Loss rate: 0.63%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-22 04:19:00

End at: 2018-08-22 04:19:31

Local clock offset: -2.856 ms

Remote clock offset: 3.399 ms

Below is generated by plot.py at 2018-08-22 09:28:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 594.09 Mbit/s

95th percentile per-packet one-way delay: 27.505 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 333.86 Mbit/s

95th percentile per-packet one-way delay: 25.861 ms

Loss rate: 1.65%

-- Flow 2:

Average throughput: 348.36 Mbit/s

95th percentile per-packet one-way delay: 30.061 ms

Loss rate: 1.81%

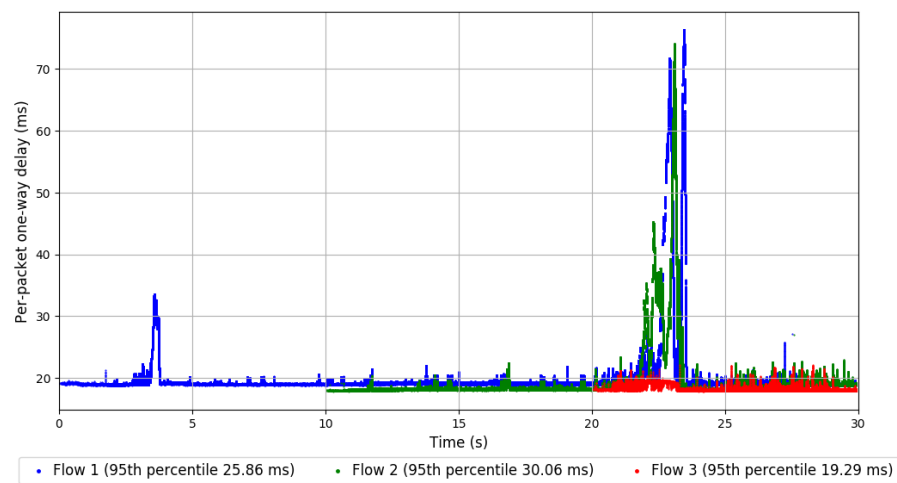
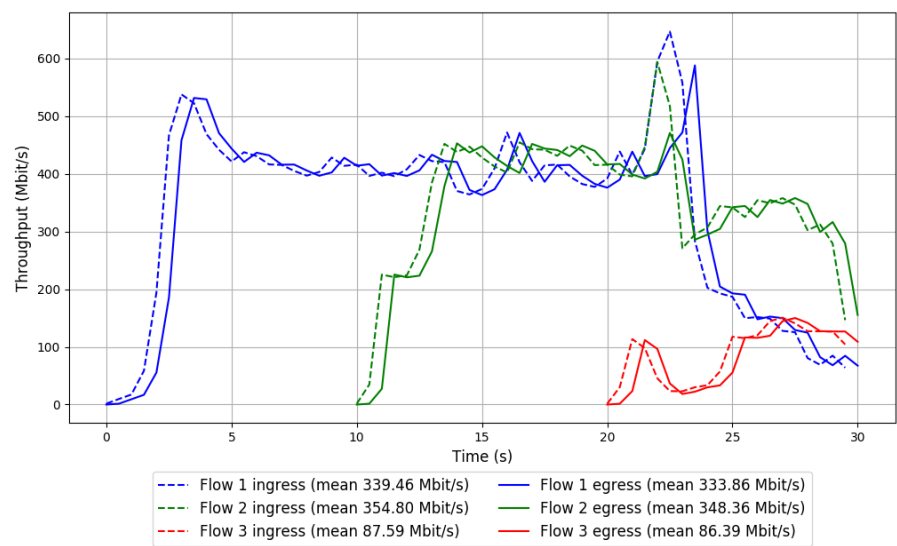
-- Flow 3:

Average throughput: 86.39 Mbit/s

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

Loss rate: 1.37%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-08-22 04:46:14

End at: 2018-08-22 04:46:44

Local clock offset: -0.489 ms

Remote clock offset: 1.407 ms

Below is generated by plot.py at 2018-08-22 09:28:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 593.36 Mbit/s

95th percentile per-packet one-way delay: 32.876 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 356.09 Mbit/s

95th percentile per-packet one-way delay: 38.508 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 343.45 Mbit/s

95th percentile per-packet one-way delay: 20.579 ms

Loss rate: 0.87%

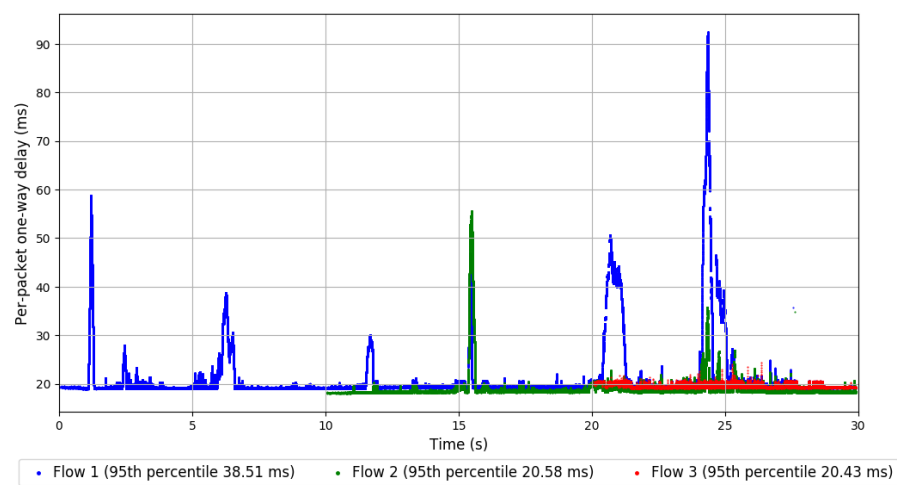
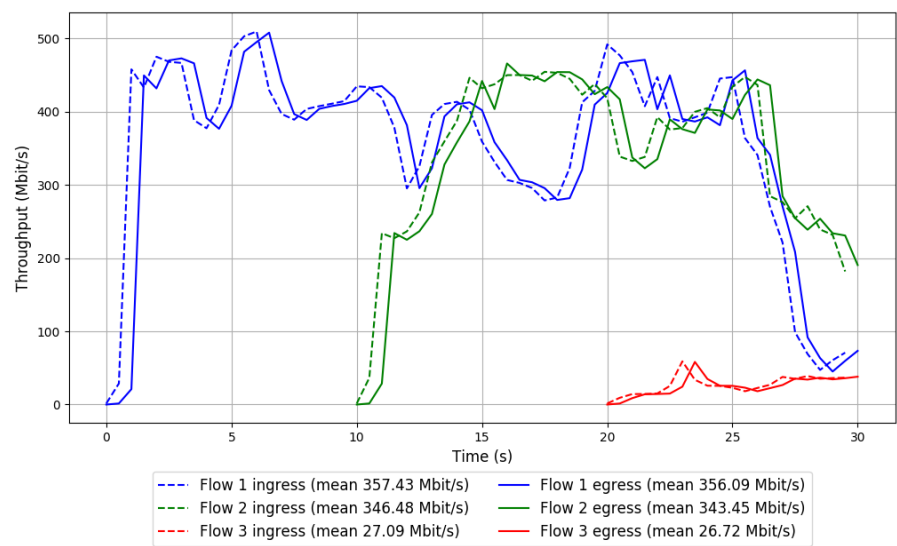
-- Flow 3:

Average throughput: 26.72 Mbit/s

95th percentile per-packet one-way delay: 20.431 ms

Loss rate: 1.38%

Run 6: Report of PCC-Vivace — Data Link

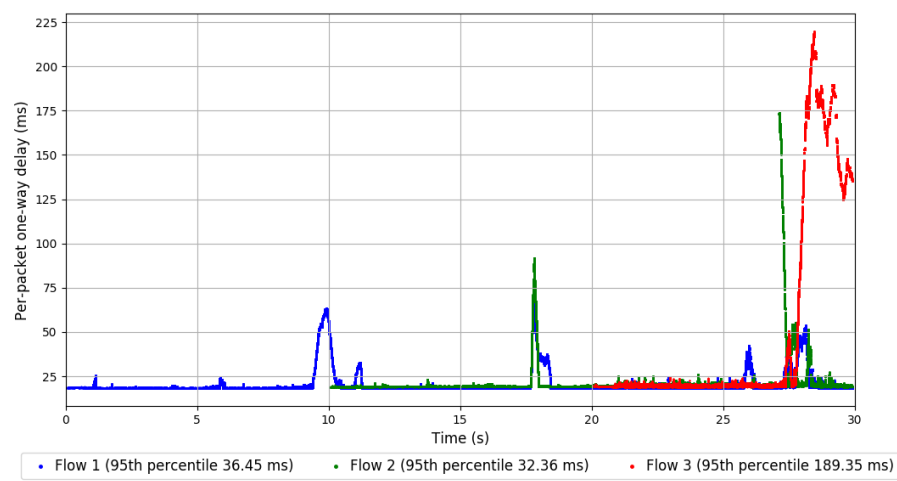
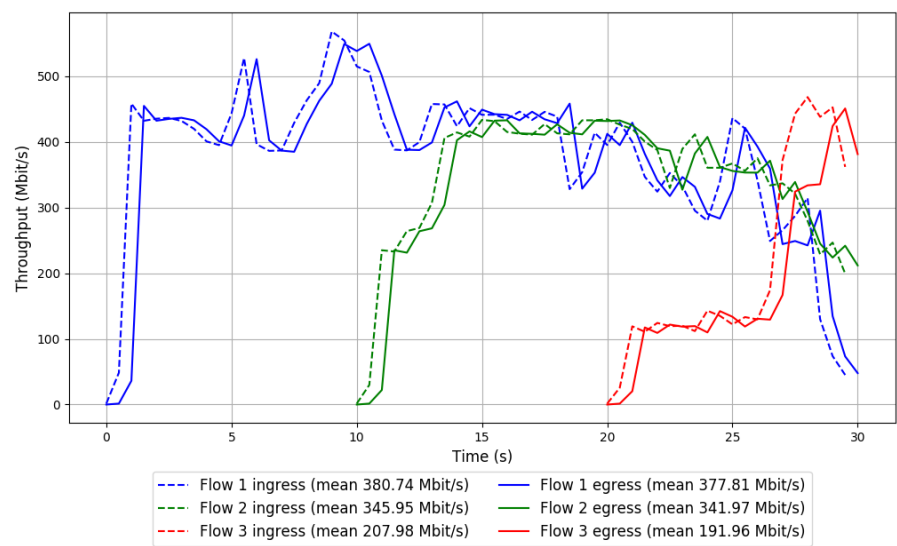


Run 7: Statistics of PCC-Vivace

Start at: 2018-08-22 05:13:29
End at: 2018-08-22 05:13:59
Local clock offset: 0.974 ms
Remote clock offset: -1.789 ms

Below is generated by plot.py at 2018-08-22 09:29:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 668.62 Mbit/s
95th percentile per-packet one-way delay: 64.819 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 377.81 Mbit/s
95th percentile per-packet one-way delay: 36.454 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 341.97 Mbit/s
95th percentile per-packet one-way delay: 32.364 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 191.96 Mbit/s
95th percentile per-packet one-way delay: 189.350 ms
Loss rate: 7.71%

Run 7: Report of PCC-Vivace — Data Link

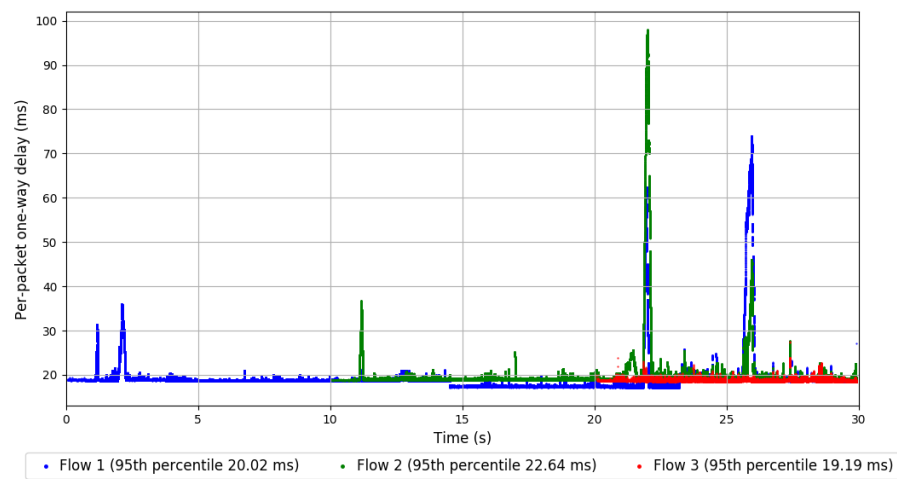
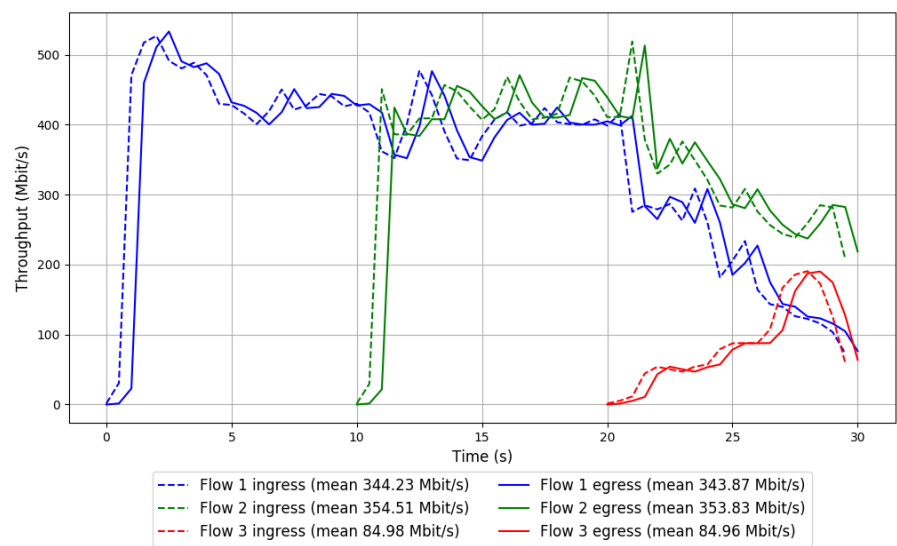


Run 8: Statistics of PCC-Vivace

Start at: 2018-08-22 05:40:42
End at: 2018-08-22 05:41:12
Local clock offset: -0.201 ms
Remote clock offset: -3.483 ms

Below is generated by plot.py at 2018-08-22 09:29:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 607.17 Mbit/s
95th percentile per-packet one-way delay: 20.871 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 343.87 Mbit/s
95th percentile per-packet one-way delay: 20.017 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 353.83 Mbit/s
95th percentile per-packet one-way delay: 22.636 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 84.96 Mbit/s
95th percentile per-packet one-way delay: 19.190 ms
Loss rate: 0.05%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-22 06:07:49

End at: 2018-08-22 06:08:19

Local clock offset: -3.042 ms

Remote clock offset: 3.283 ms

Below is generated by plot.py at 2018-08-22 09:30:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 586.47 Mbit/s

95th percentile per-packet one-way delay: 104.121 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 341.44 Mbit/s

95th percentile per-packet one-way delay: 130.297 ms

Loss rate: 1.52%

-- Flow 2:

Average throughput: 342.78 Mbit/s

95th percentile per-packet one-way delay: 30.897 ms

Loss rate: 0.21%

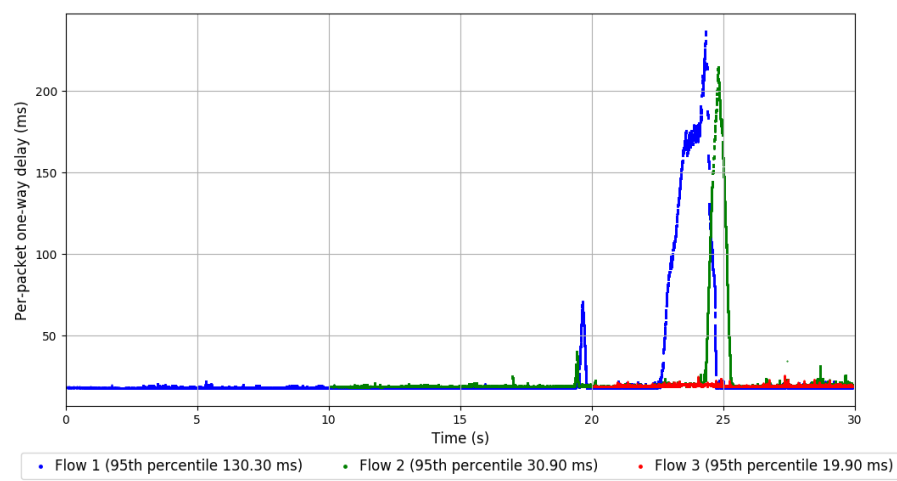
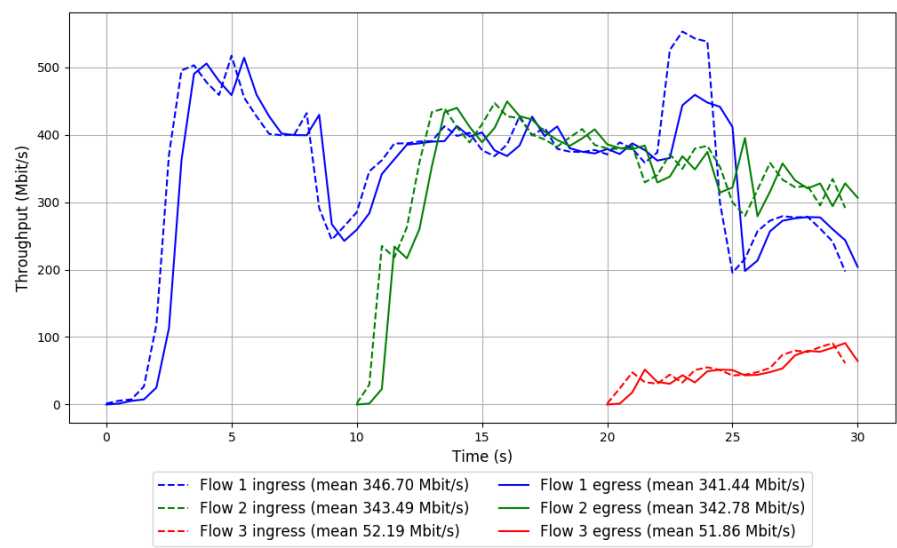
-- Flow 3:

Average throughput: 51.86 Mbit/s

95th percentile per-packet one-way delay: 19.904 ms

Loss rate: 0.64%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-22 06:34:36

End at: 2018-08-22 06:35:06

Local clock offset: 1.203 ms

Remote clock offset: 5.588 ms

Below is generated by plot.py at 2018-08-22 09:30:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 518.01 Mbit/s

95th percentile per-packet one-way delay: 18.475 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 280.65 Mbit/s

95th percentile per-packet one-way delay: 18.462 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 282.63 Mbit/s

95th percentile per-packet one-way delay: 18.302 ms

Loss rate: 0.30%

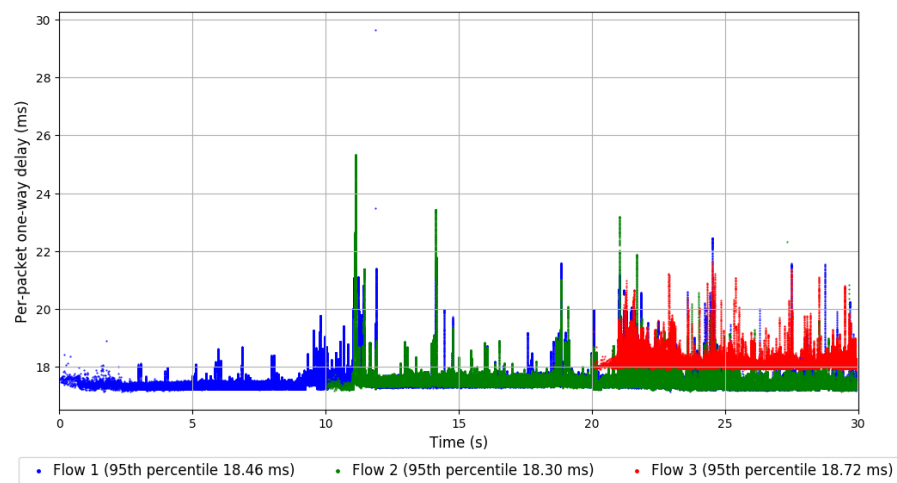
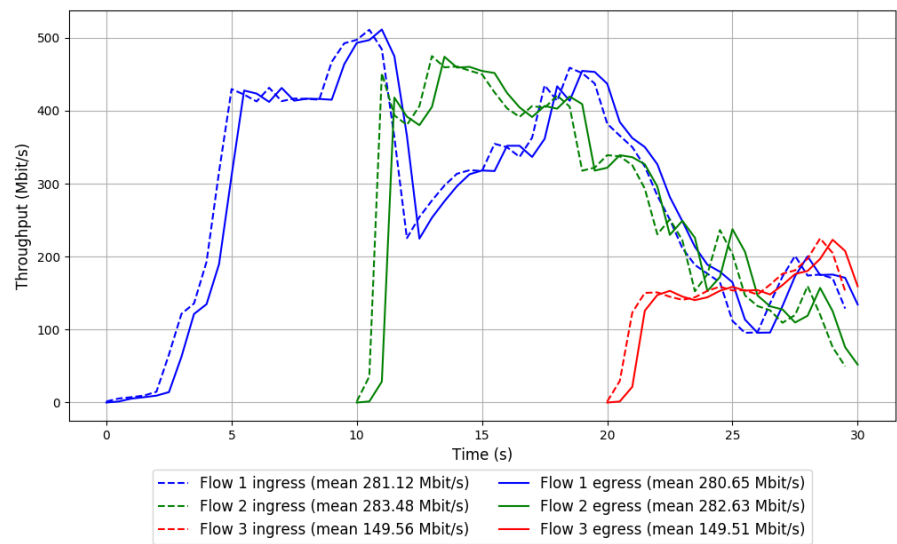
-- Flow 3:

Average throughput: 149.51 Mbit/s

95th percentile per-packet one-way delay: 18.722 ms

Loss rate: 0.04%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-08-22 02:52:48

End at: 2018-08-22 02:53:18

Local clock offset: 1.663 ms

Remote clock offset: 0.65 ms

Below is generated by plot.py at 2018-08-22 09:30:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.00 Mbit/s

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

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 19.424 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 19.272 ms

Loss rate: 0.00%

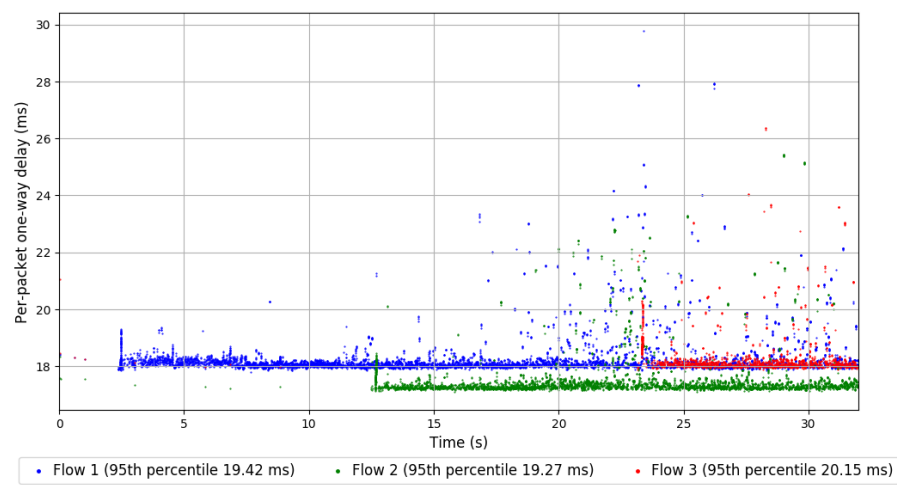
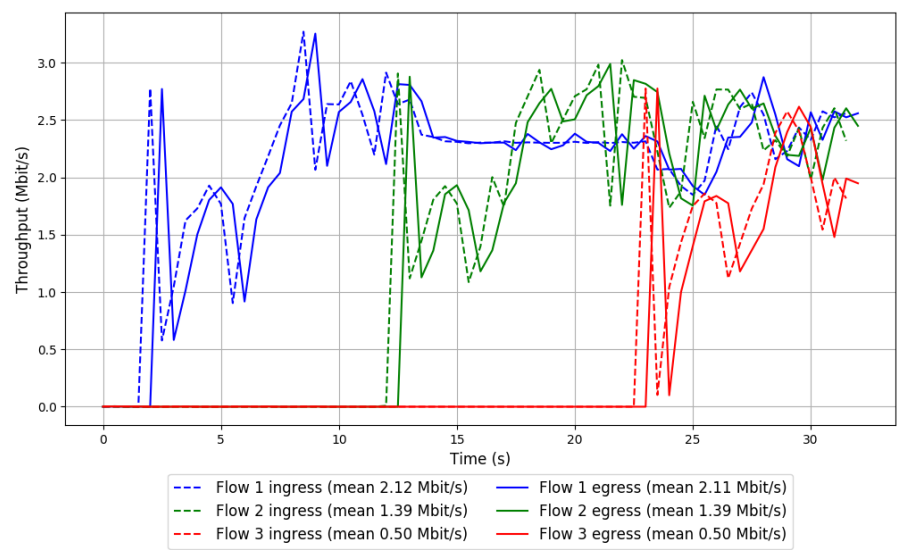
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 20.150 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-08-22 03:20:13

End at: 2018-08-22 03:20:43

Local clock offset: 0.906 ms

Remote clock offset: 4.152 ms

Below is generated by plot.py at 2018-08-22 09:30:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 20.115 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 20.236 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 19.150 ms

Loss rate: 0.00%

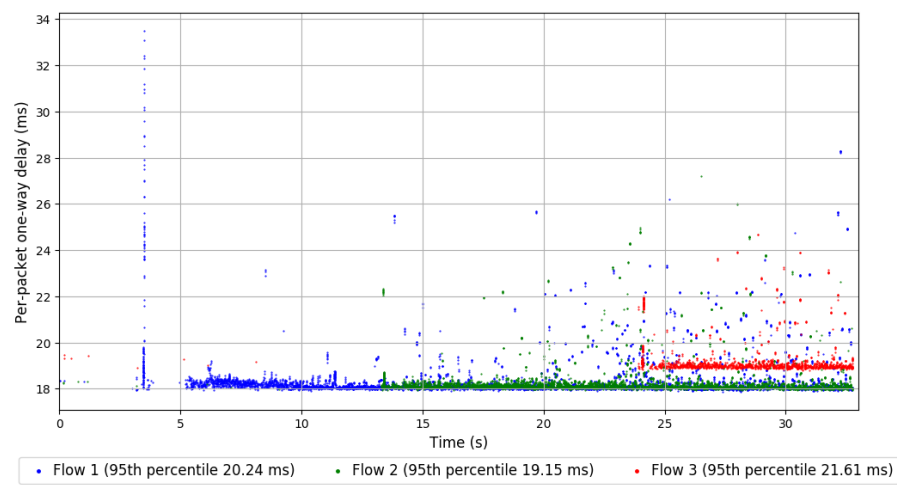
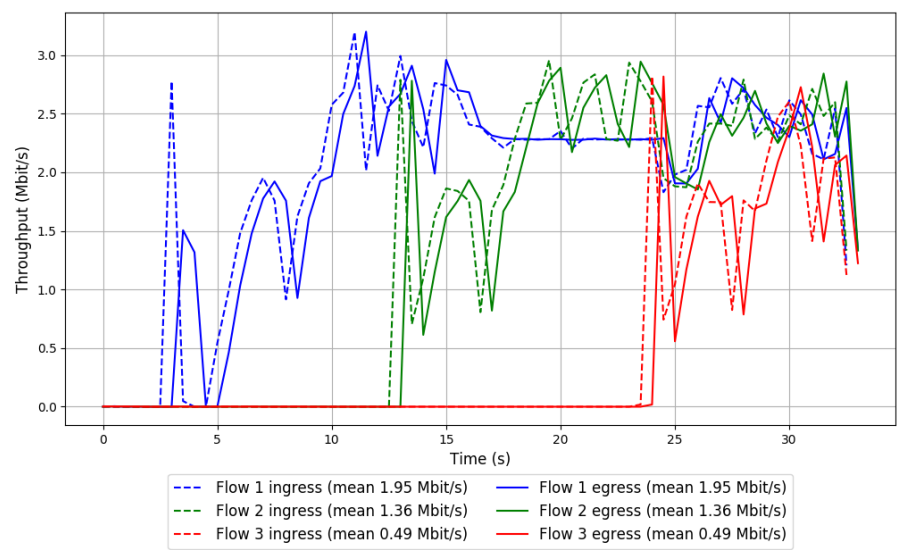
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 21.609 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-08-22 03:47:28

End at: 2018-08-22 03:47:58

Local clock offset: -1.712 ms

Remote clock offset: 3.822 ms

Below is generated by plot.py at 2018-08-22 09:30:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 19.905 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 20.335 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 19.289 ms

Loss rate: 0.04%

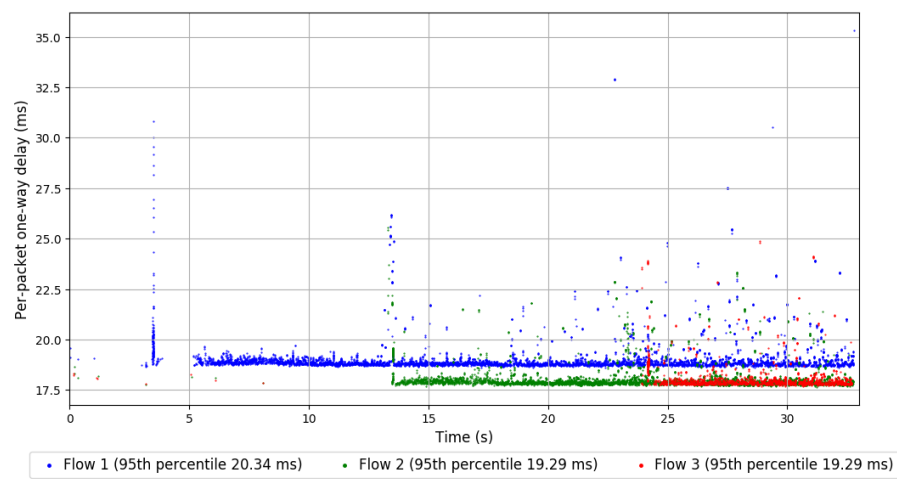
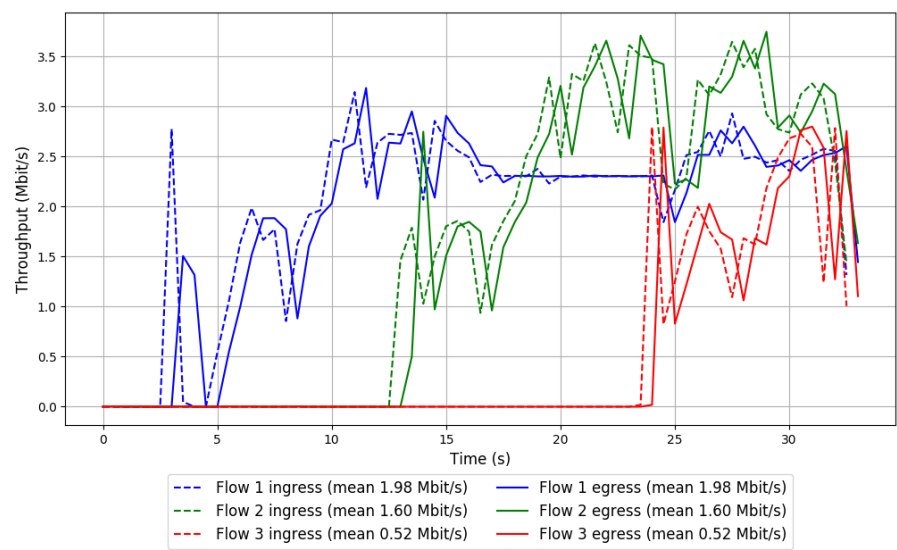
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 19.285 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-08-22 04:14:50

End at: 2018-08-22 04:15:20

Local clock offset: -3.023 ms

Remote clock offset: 3.547 ms

Below is generated by plot.py at 2018-08-22 09:30:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 20.725 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 21.051 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 20.221 ms

Loss rate: 0.31%

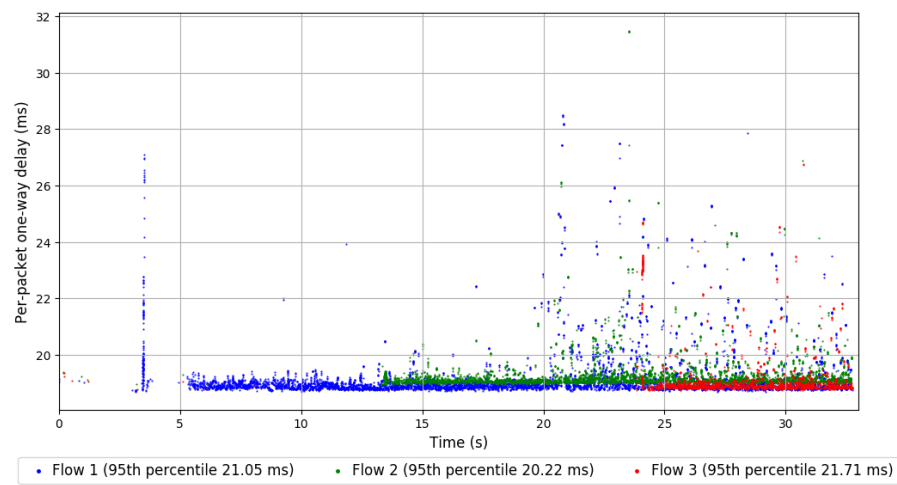
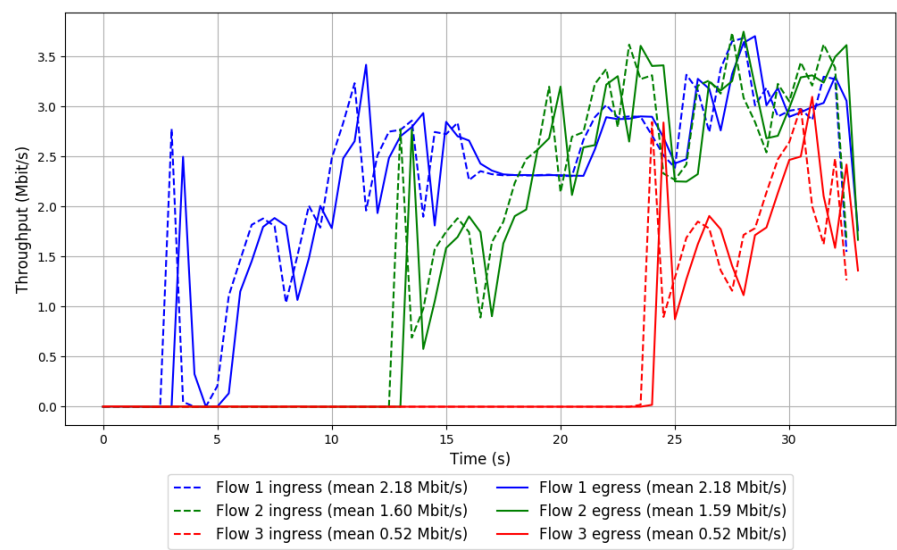
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 21.708 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-08-22 04:41:58

End at: 2018-08-22 04:42:28

Local clock offset: -1.438 ms

Remote clock offset: 2.982 ms

Below is generated by plot.py at 2018-08-22 09:30:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 20.691 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 21.011 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 20.397 ms

Loss rate: 0.00%

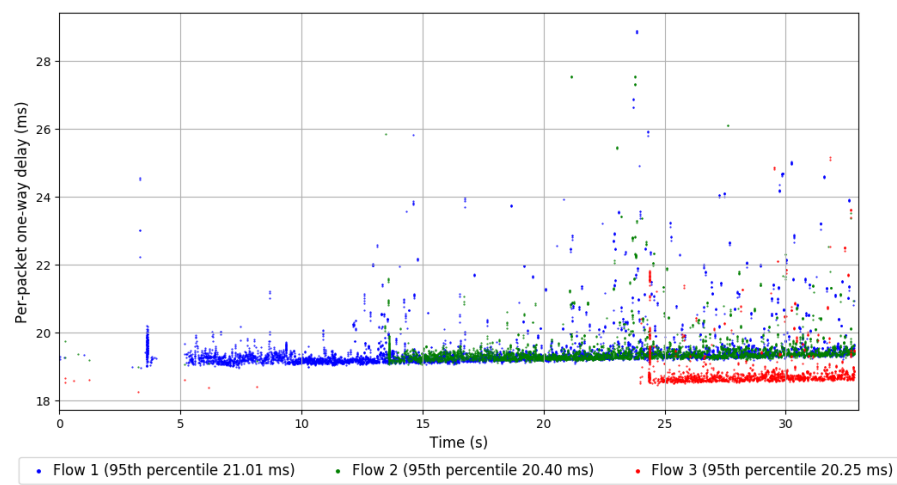
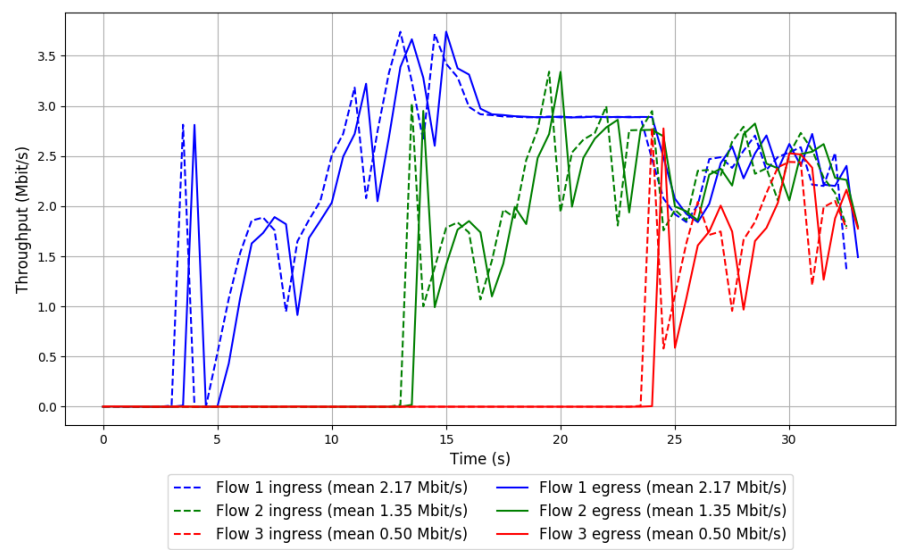
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 20.249 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

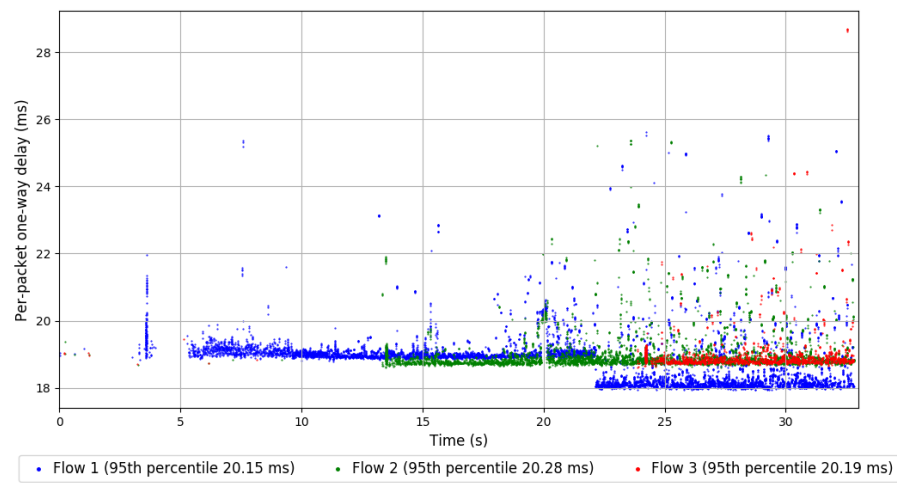
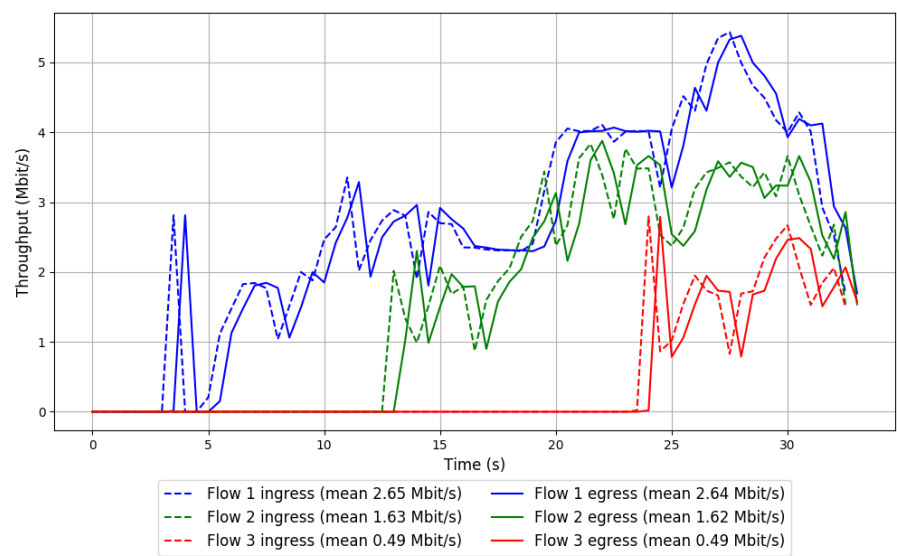


Run 6: Statistics of WebRTC media

Start at: 2018-08-22 05:09:16
End at: 2018-08-22 05:09:46
Local clock offset: 1.217 ms
Remote clock offset: -1.497 ms

Below is generated by plot.py at 2018-08-22 09:30:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.74 Mbit/s
95th percentile per-packet one-way delay: 20.217 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 2.64 Mbit/s
95th percentile per-packet one-way delay: 20.154 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 20.284 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 20.190 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

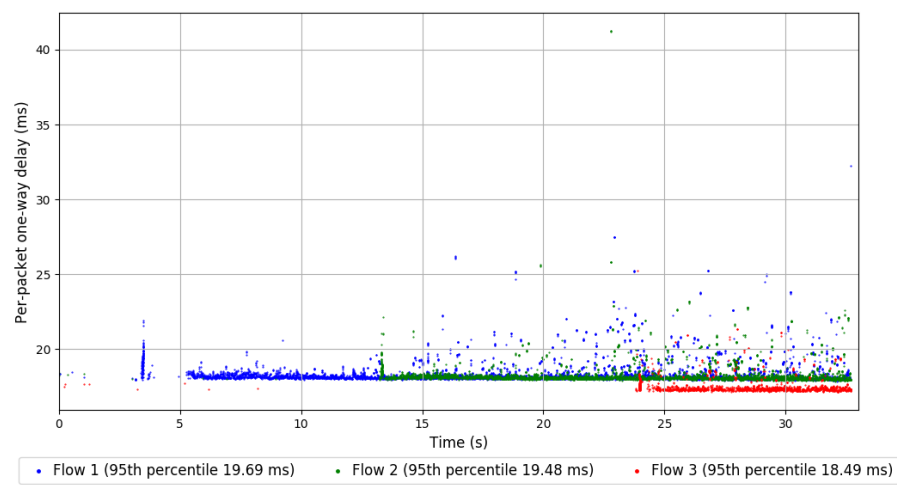
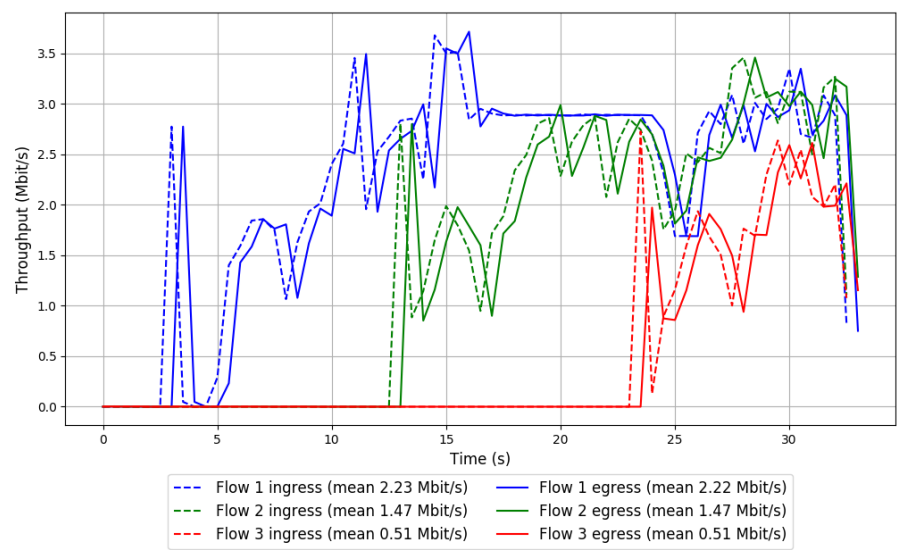


Run 7: Statistics of WebRTC media

Start at: 2018-08-22 05:36:32
End at: 2018-08-22 05:37:02
Local clock offset: 1.112 ms
Remote clock offset: -3.209 ms

Below is generated by plot.py at 2018-08-22 09:30:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 19.472 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 19.686 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 19.476 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 18.488 ms
Loss rate: 0.05%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-08-22 06:03:41

End at: 2018-08-22 06:04:11

Local clock offset: -3.079 ms

Remote clock offset: 2.415 ms

Below is generated by plot.py at 2018-08-22 09:30:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 19.961 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 18.384 ms

Loss rate: 0.00%

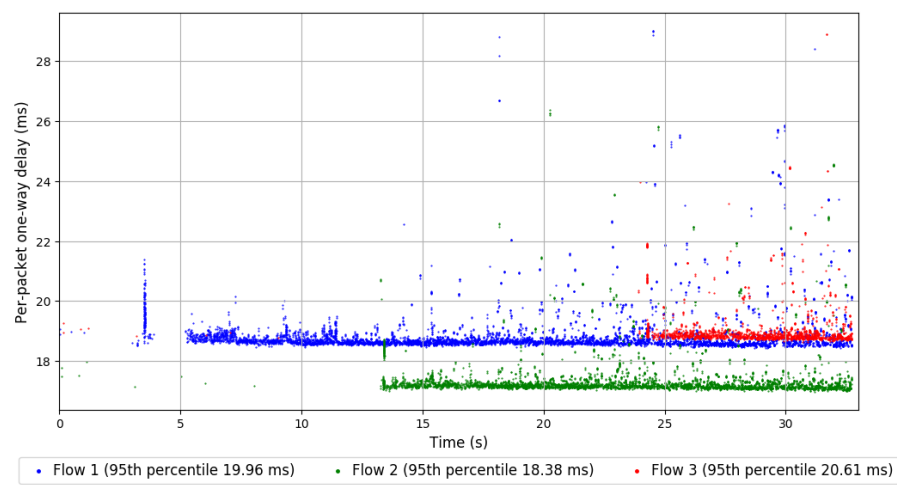
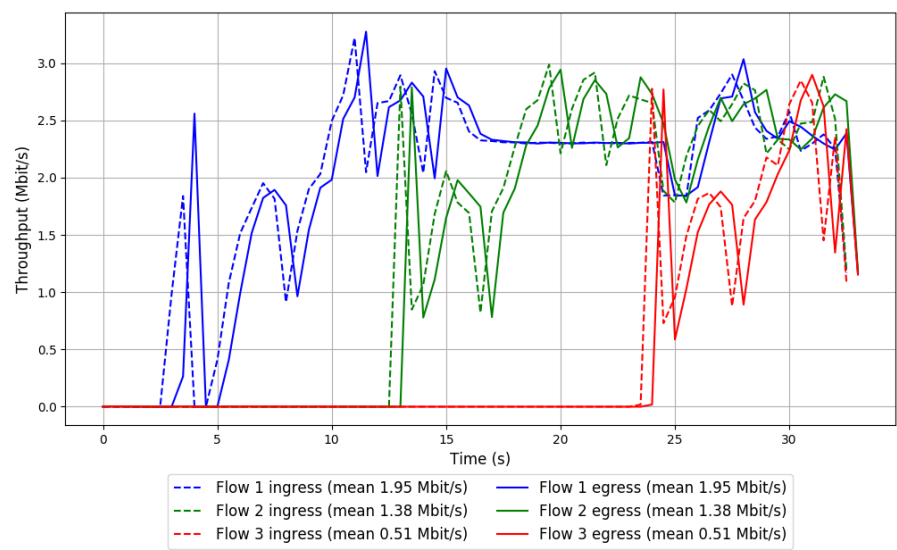
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 20.606 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-08-22 06:30:26

End at: 2018-08-22 06:30:56

Local clock offset: 0.99 ms

Remote clock offset: 5.317 ms

Below is generated by plot.py at 2018-08-22 09:30:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 20.320 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 20.779 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 19.451 ms

Loss rate: 0.88%

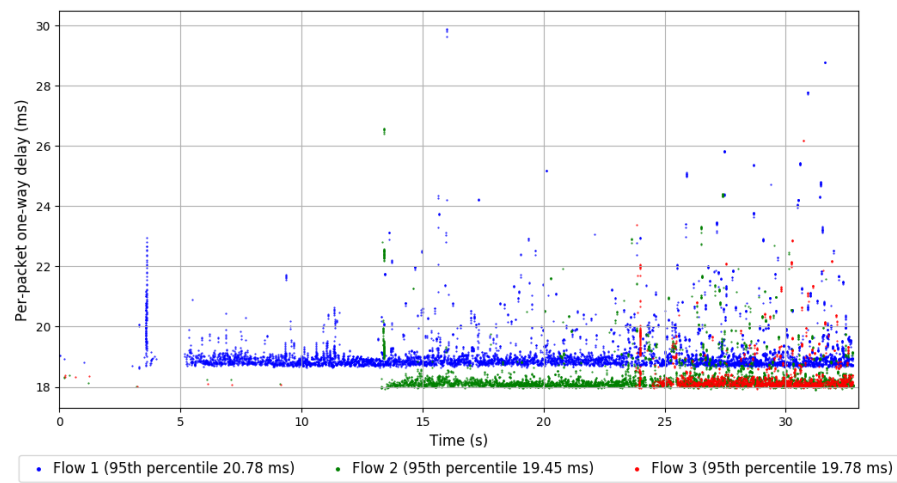
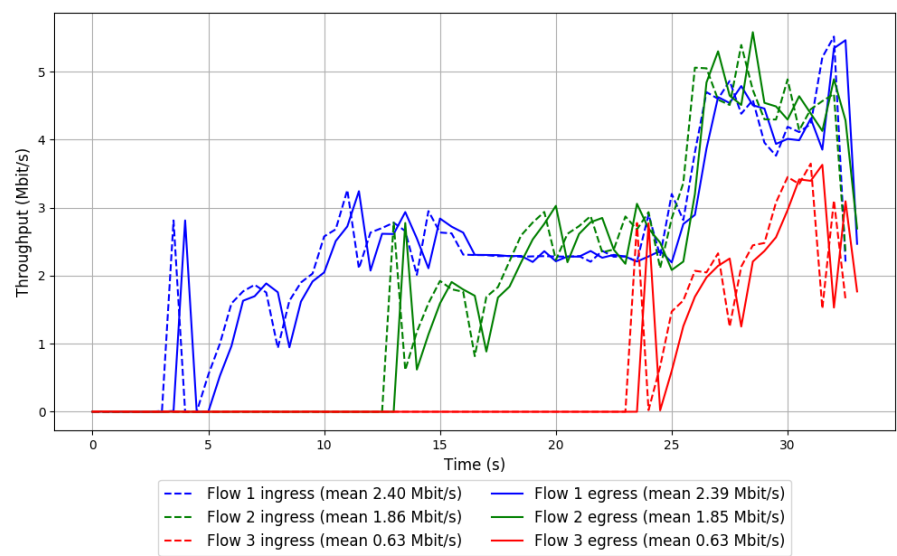
-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 19.780 ms

Loss rate: 0.57%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-22 06:57:30

End at: 2018-08-22 06:58:00

Local clock offset: 0.767 ms

Remote clock offset: 6.679 ms

Below is generated by plot.py at 2018-08-22 09:30:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 18.824 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 18.881 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 18.592 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 19.699 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

