

Pantheon Report

Generated at 2018-07-24 21:23:23 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

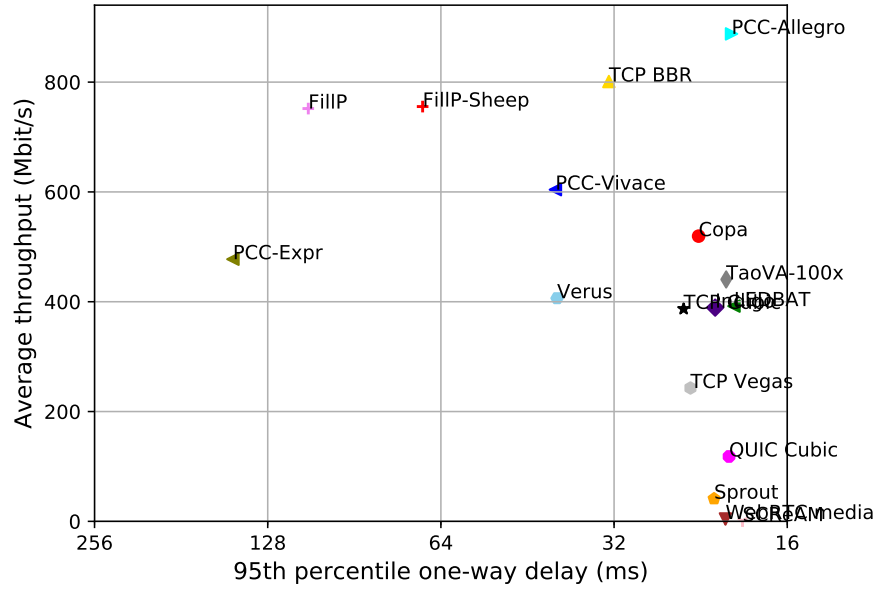
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

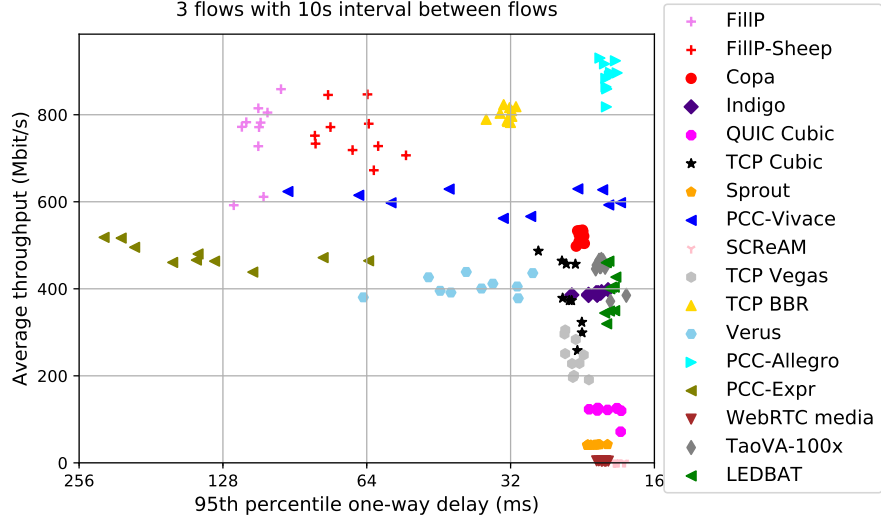
Git summary:

```
branch: master @ 640164b5b17c7c6561fff57729b3b5935d8596ce
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from 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	464.03	356.89	298.68	33.68	26.93	20.48	5.73	9.76	11.87
Copa	10	279.63	249.51	221.53	22.27	22.94	23.86	0.09	0.11	0.04
TCP Cubic	10	204.37	189.18	170.19	23.47	25.34	23.57	0.13	0.18	0.19
FillP	10	445.68	358.20	219.24	104.19	95.99	111.79	14.07	17.64	22.12
FillP-Sheep	10	458.32	297.71	301.36	66.12	77.27	70.01	13.76	22.78	20.58
Indigo	10	196.81	197.35	189.50	22.24	20.41	20.82	0.12	0.08	0.03
LEDBAT	10	232.27	178.31	124.47	19.74	19.70	19.47	0.03	0.05	0.11
PCC-Allegro	10	764.86	143.16	84.34	20.04	19.82	19.50	0.84	0.91	0.67
PCC-Expr	10	293.76	242.93	66.96	151.62	141.07	20.88	1.63	1.99	0.22
QUIC Cubic	10	60.38	61.84	50.83	19.21	20.16	21.82	0.04	0.03	0.04
SCReAM	10	0.20	0.21	0.21	19.03	18.50	18.74	0.08	0.10	0.09
Sprout	10	20.68	20.72	20.66	21.27	21.51	21.22	0.22	0.13	0.07
TaoVA-100x	10	238.18	204.69	198.62	19.72	20.08	21.77	0.06	0.06	0.11
TCP Vegas	10	105.57	116.25	179.95	22.15	23.21	25.63	0.09	0.20	0.12
Verus	10	211.69	203.83	177.89	43.53	36.68	33.46	23.07	23.33	26.05
PCC-Vivace	10	366.57	302.28	110.69	42.27	38.32	19.40	0.20	0.67	0.37
WebRTC media	10	2.18	1.48	0.59	19.88	20.78	20.82	0.13	0.09	0.11

Run 1: Statistics of TCP BBR

Start at: 2018-07-24 14:38:16

End at: 2018-07-24 14:38:46

Local clock offset: 3.765 ms

Remote clock offset: 0.343 ms

Below is generated by plot.py at 2018-07-24 19:21:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 789.52 Mbit/s

95th percentile per-packet one-way delay: 35.992 ms

Loss rate: 8.32%

-- Flow 1:

Average throughput: 452.25 Mbit/s

95th percentile per-packet one-way delay: 37.061 ms

Loss rate: 6.01%

-- Flow 2:

Average throughput: 326.80 Mbit/s

95th percentile per-packet one-way delay: 29.995 ms

Loss rate: 10.51%

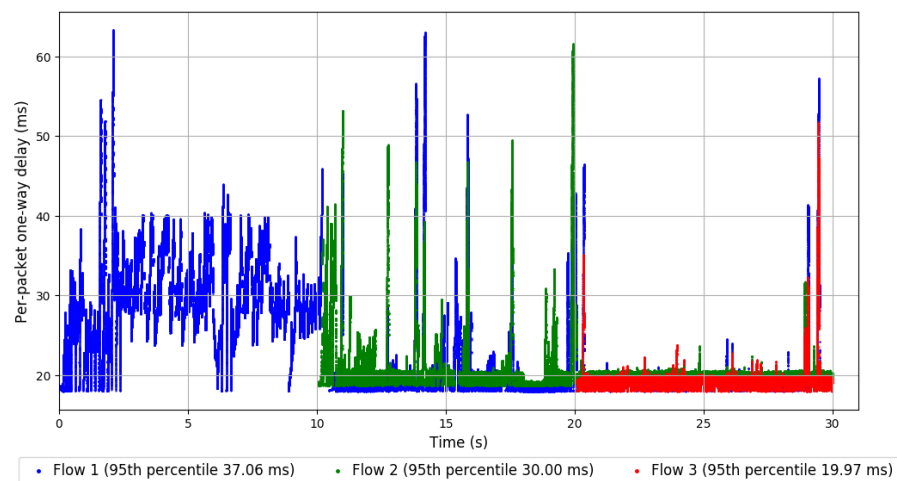
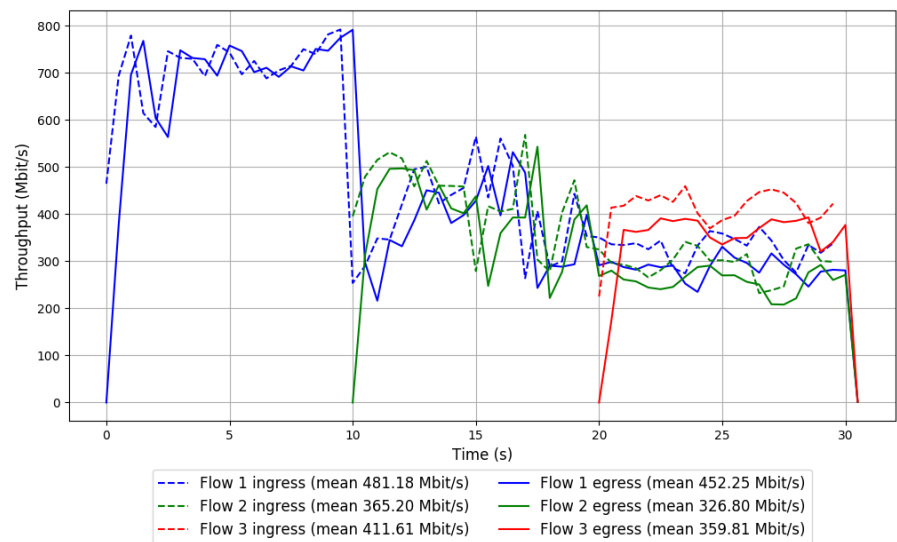
-- Flow 3:

Average throughput: 359.81 Mbit/s

95th percentile per-packet one-way delay: 19.972 ms

Loss rate: 12.57%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-24 15:05:24

End at: 2018-07-24 15:05:54

Local clock offset: 3.862 ms

Remote clock offset: 1.101 ms

Below is generated by plot.py at 2018-07-24 19:22:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 803.44 Mbit/s

95th percentile per-packet one-way delay: 33.652 ms

Loss rate: 7.17%

-- Flow 1:

Average throughput: 458.76 Mbit/s

95th percentile per-packet one-way delay: 34.332 ms

Loss rate: 4.98%

-- Flow 2:

Average throughput: 379.96 Mbit/s

95th percentile per-packet one-way delay: 31.212 ms

Loss rate: 9.51%

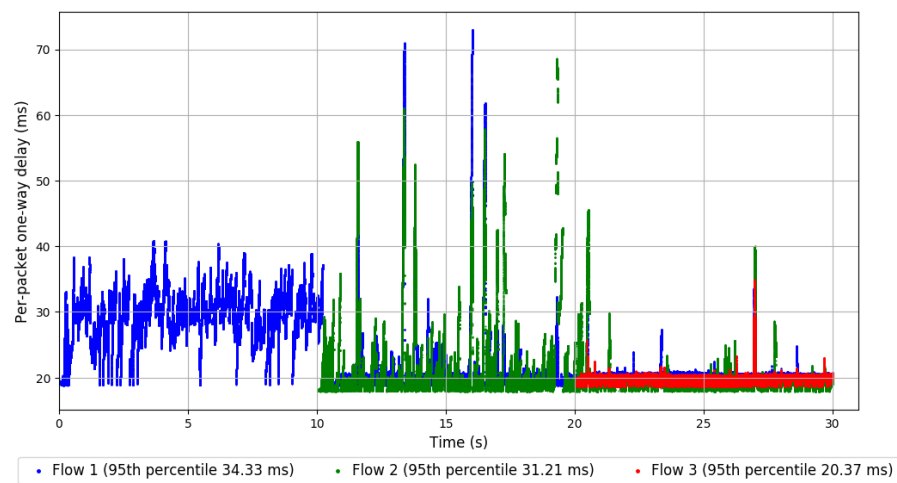
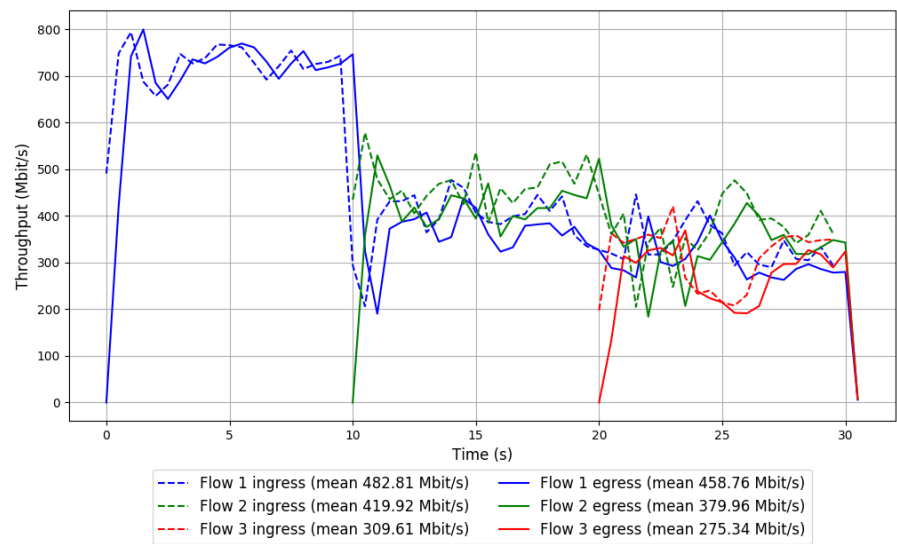
-- Flow 3:

Average throughput: 275.34 Mbit/s

95th percentile per-packet one-way delay: 20.370 ms

Loss rate: 11.06%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-24 15:32:43

End at: 2018-07-24 15:33:13

Local clock offset: 3.37 ms

Remote clock offset: 1.594 ms

Below is generated by plot.py at 2018-07-24 19:22:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 823.34 Mbit/s

95th percentile per-packet one-way delay: 33.085 ms

Loss rate: 7.58%

-- Flow 1:

Average throughput: 486.44 Mbit/s

95th percentile per-packet one-way delay: 33.939 ms

Loss rate: 5.38%

-- Flow 2:

Average throughput: 365.19 Mbit/s

95th percentile per-packet one-way delay: 25.368 ms

Loss rate: 9.94%

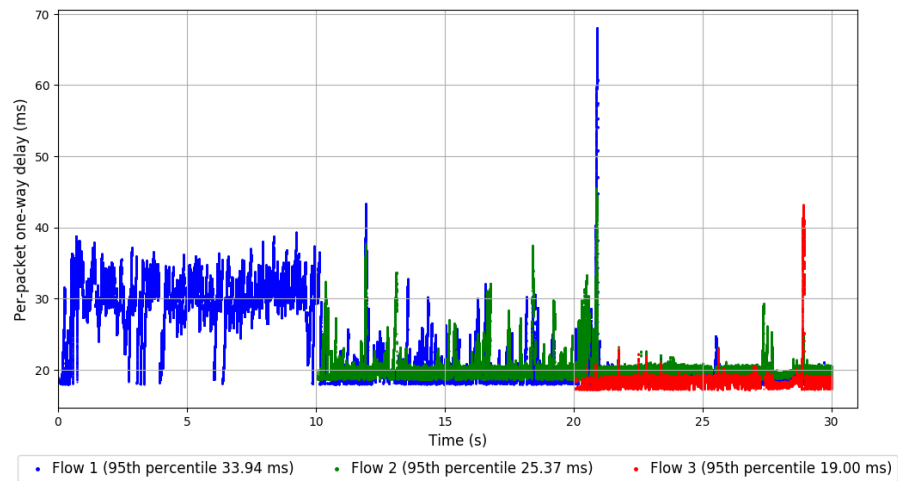
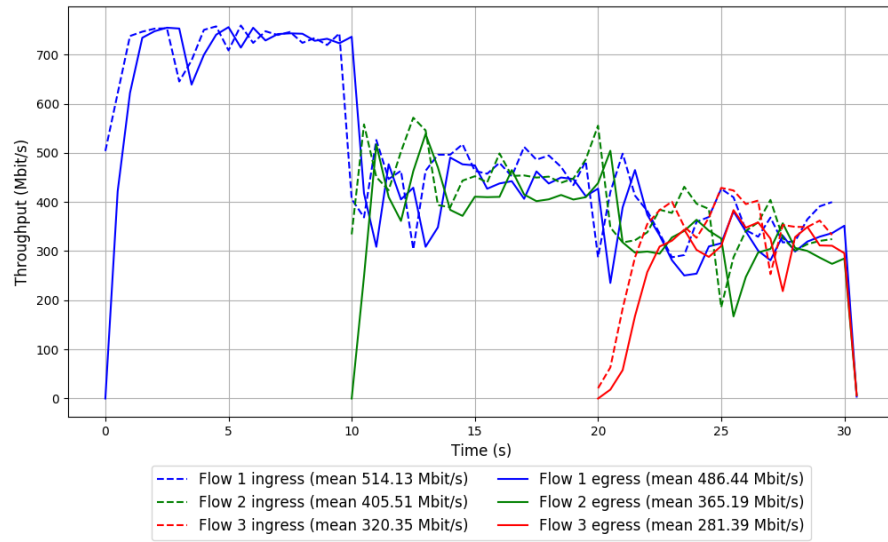
-- Flow 3:

Average throughput: 281.39 Mbit/s

95th percentile per-packet one-way delay: 19.000 ms

Loss rate: 12.17%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-24 16:00:10

End at: 2018-07-24 16:00:40

Local clock offset: 3.583 ms

Remote clock offset: 2.231 ms

Below is generated by plot.py at 2018-07-24 19:22:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 796.35 Mbit/s

95th percentile per-packet one-way delay: 31.809 ms

Loss rate: 8.44%

-- Flow 1:

Average throughput: 468.47 Mbit/s

95th percentile per-packet one-way delay: 32.614 ms

Loss rate: 6.40%

-- Flow 2:

Average throughput: 349.15 Mbit/s

95th percentile per-packet one-way delay: 24.647 ms

Loss rate: 10.60%

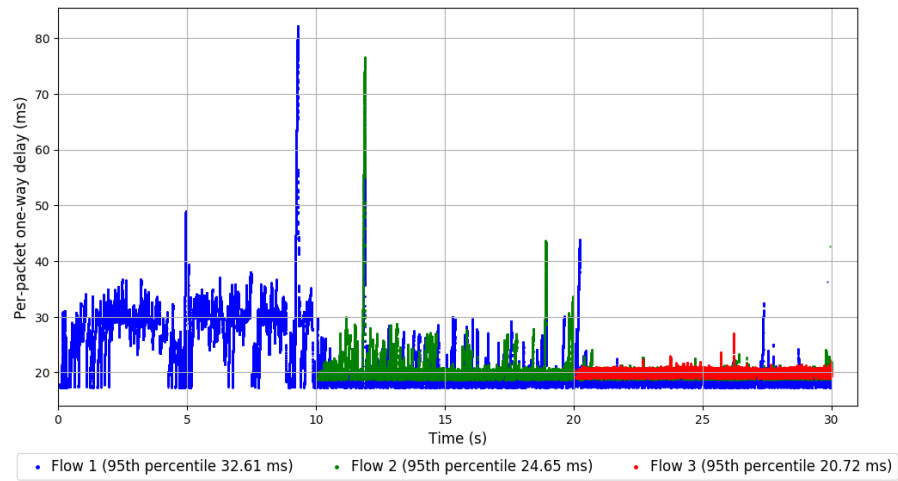
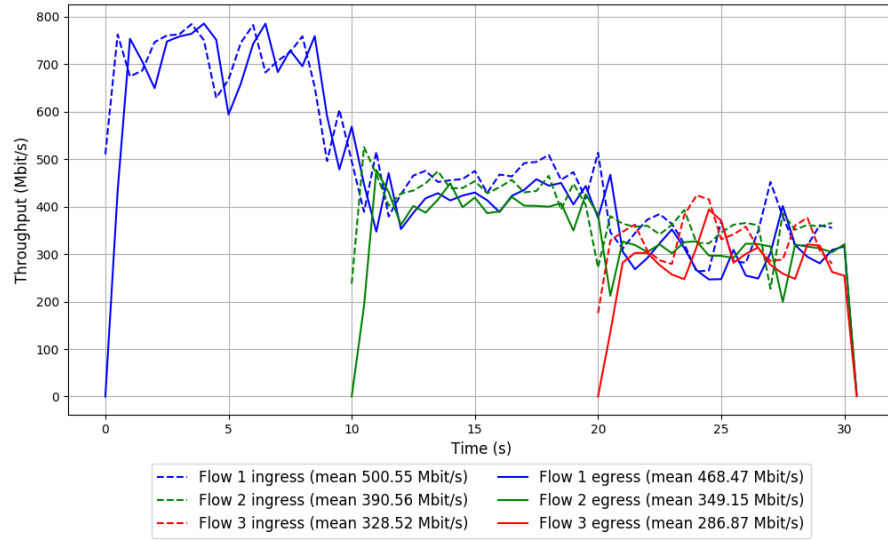
-- Flow 3:

Average throughput: 286.87 Mbit/s

95th percentile per-packet one-way delay: 20.720 ms

Loss rate: 12.68%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-24 16:27:23

End at: 2018-07-24 16:27:53

Local clock offset: 3.389 ms

Remote clock offset: 2.781 ms

Below is generated by plot.py at 2018-07-24 19:22:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 782.24 Mbit/s

95th percentile per-packet one-way delay: 32.025 ms

Loss rate: 7.69%

-- Flow 1:

Average throughput: 452.30 Mbit/s

95th percentile per-packet one-way delay: 33.083 ms

Loss rate: 5.62%

-- Flow 2:

Average throughput: 331.62 Mbit/s

95th percentile per-packet one-way delay: 26.475 ms

Loss rate: 10.01%

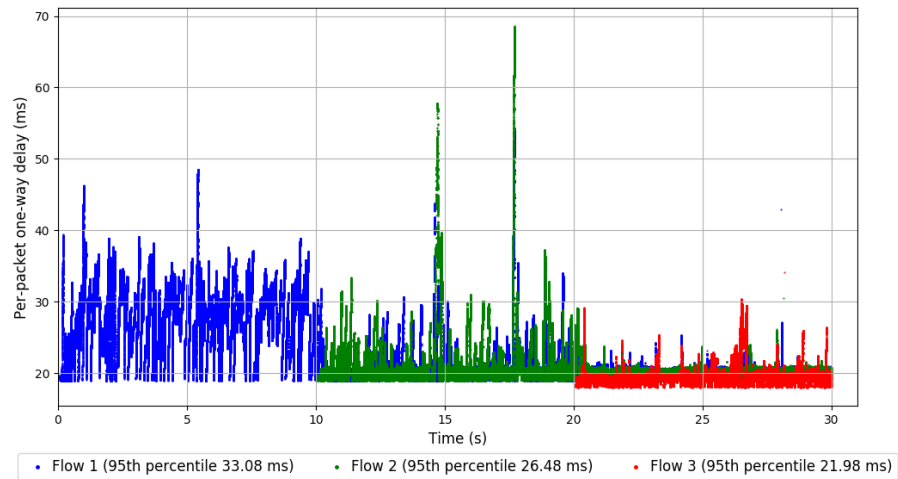
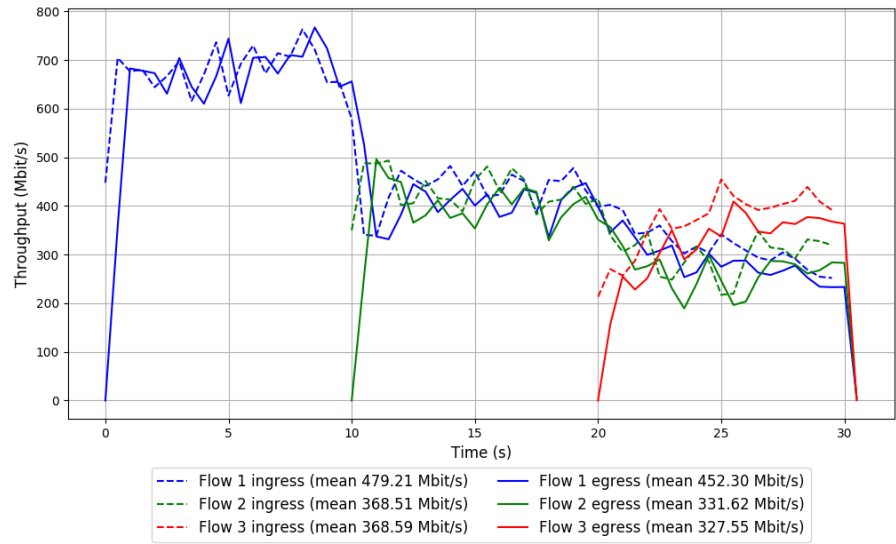
-- Flow 3:

Average throughput: 327.55 Mbit/s

95th percentile per-packet one-way delay: 21.979 ms

Loss rate: 11.14%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-24 16:54:35

End at: 2018-07-24 16:55:05

Local clock offset: 3.487 ms

Remote clock offset: 2.807 ms

Below is generated by plot.py at 2018-07-24 19:22:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 816.40 Mbit/s

95th percentile per-packet one-way delay: 32.155 ms

Loss rate: 6.97%

-- Flow 1:

Average throughput: 487.57 Mbit/s

95th percentile per-packet one-way delay: 32.996 ms

Loss rate: 5.22%

-- Flow 2:

Average throughput: 357.96 Mbit/s

95th percentile per-packet one-way delay: 25.230 ms

Loss rate: 8.95%

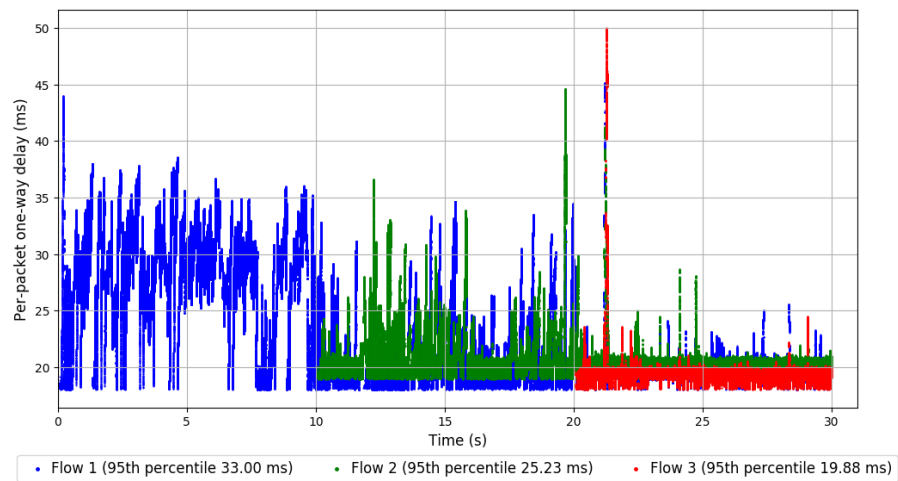
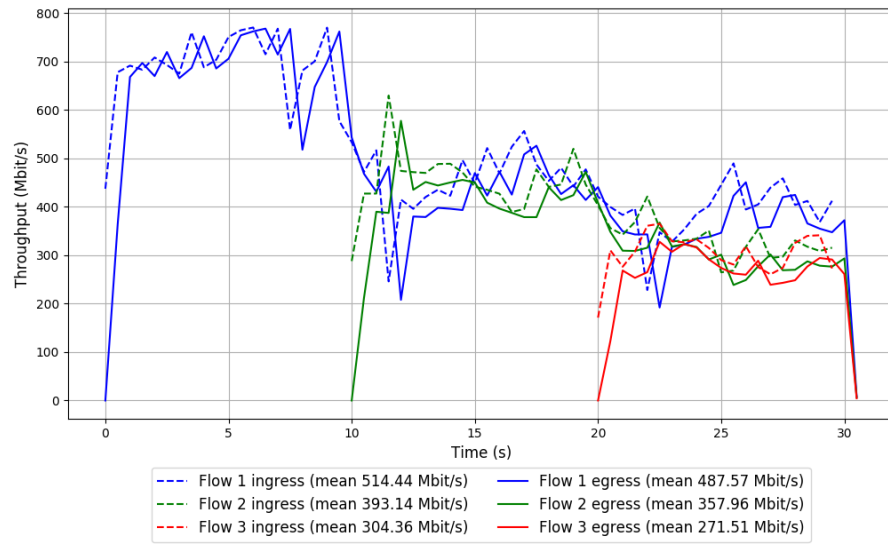
-- Flow 3:

Average throughput: 271.51 Mbit/s

95th percentile per-packet one-way delay: 19.884 ms

Loss rate: 10.79%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-24 17:22:02

End at: 2018-07-24 17:22:32

Local clock offset: 3.465 ms

Remote clock offset: 2.843 ms

Below is generated by plot.py at 2018-07-24 19:22:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 786.90 Mbit/s

95th percentile per-packet one-way delay: 32.529 ms

Loss rate: 7.93%

-- Flow 1:

Average throughput: 448.78 Mbit/s

95th percentile per-packet one-way delay: 33.526 ms

Loss rate: 6.06%

-- Flow 2:

Average throughput: 358.90 Mbit/s

95th percentile per-packet one-way delay: 28.012 ms

Loss rate: 9.53%

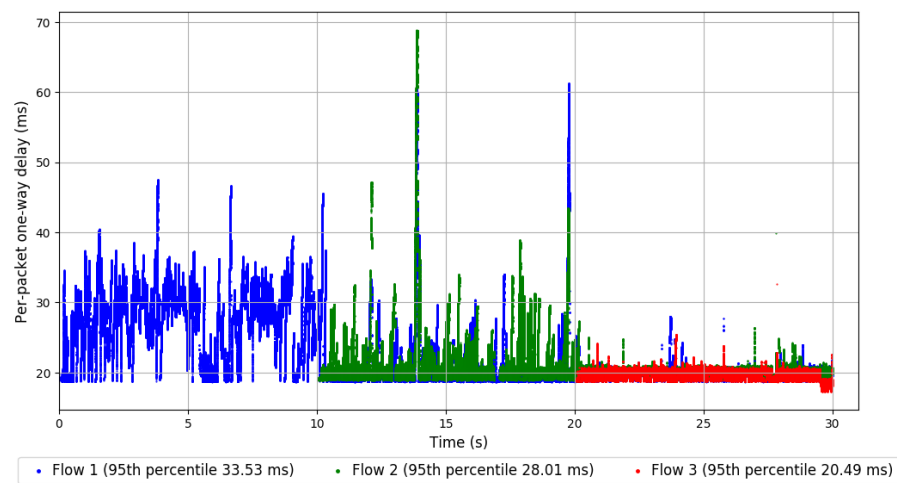
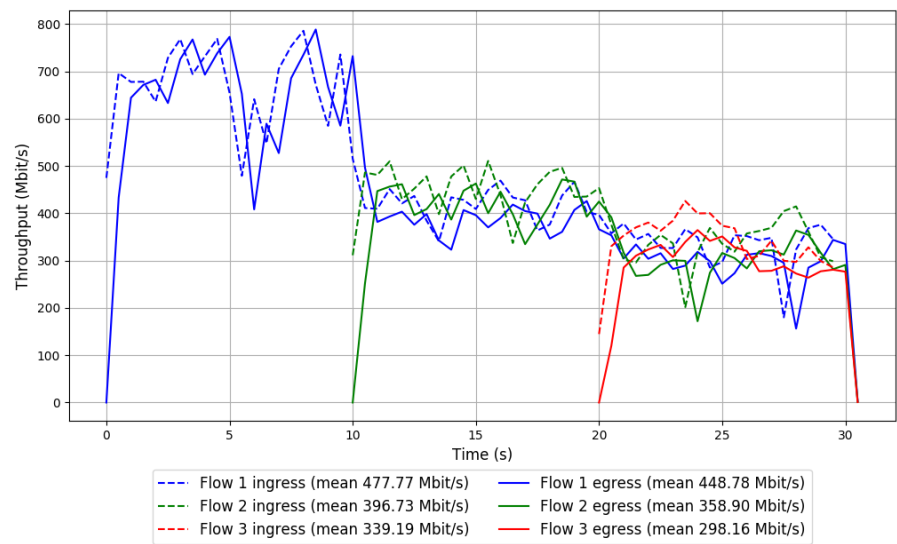
-- Flow 3:

Average throughput: 298.16 Mbit/s

95th percentile per-packet one-way delay: 20.494 ms

Loss rate: 12.11%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-24 17:49:29

End at: 2018-07-24 17:49:59

Local clock offset: 3.194 ms

Remote clock offset: 2.424 ms

Below is generated by plot.py at 2018-07-24 19:22:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 784.48 Mbit/s

95th percentile per-packet one-way delay: 32.457 ms

Loss rate: 8.32%

-- Flow 1:

Average throughput: 449.17 Mbit/s

95th percentile per-packet one-way delay: 33.762 ms

Loss rate: 6.41%

-- Flow 2:

Average throughput: 357.78 Mbit/s

95th percentile per-packet one-way delay: 26.525 ms

Loss rate: 10.08%

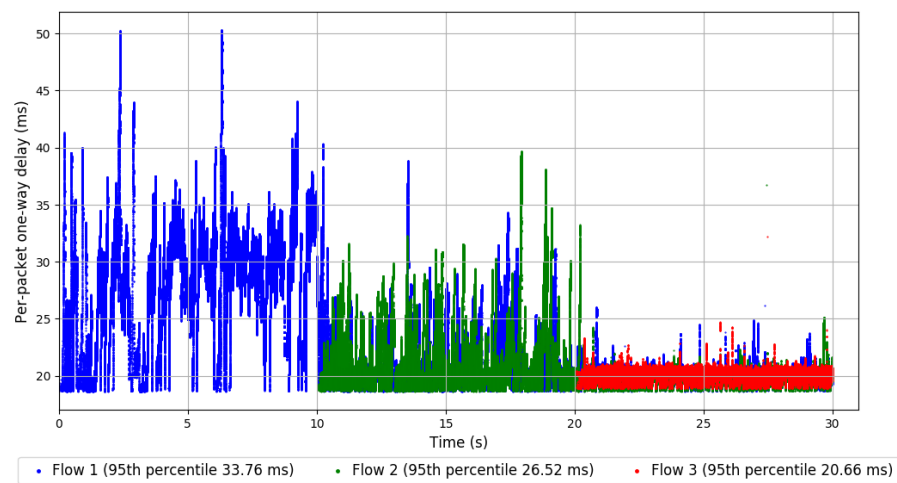
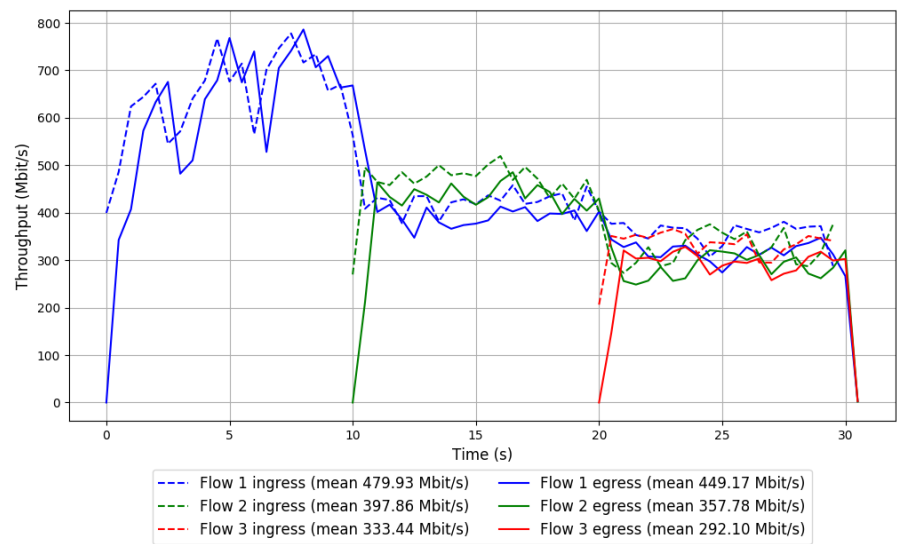
-- Flow 3:

Average throughput: 292.10 Mbit/s

95th percentile per-packet one-way delay: 20.659 ms

Loss rate: 12.40%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-24 18:16:24

End at: 2018-07-24 18:16:54

Local clock offset: 3.381 ms

Remote clock offset: 2.012 ms

Below is generated by plot.py at 2018-07-24 19:30:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 809.48 Mbit/s

95th percentile per-packet one-way delay: 31.842 ms

Loss rate: 7.49%

-- Flow 1:

Average throughput: 467.15 Mbit/s

95th percentile per-packet one-way delay: 32.930 ms

Loss rate: 5.61%

-- Flow 2:

Average throughput: 366.65 Mbit/s

95th percentile per-packet one-way delay: 26.197 ms

Loss rate: 9.46%

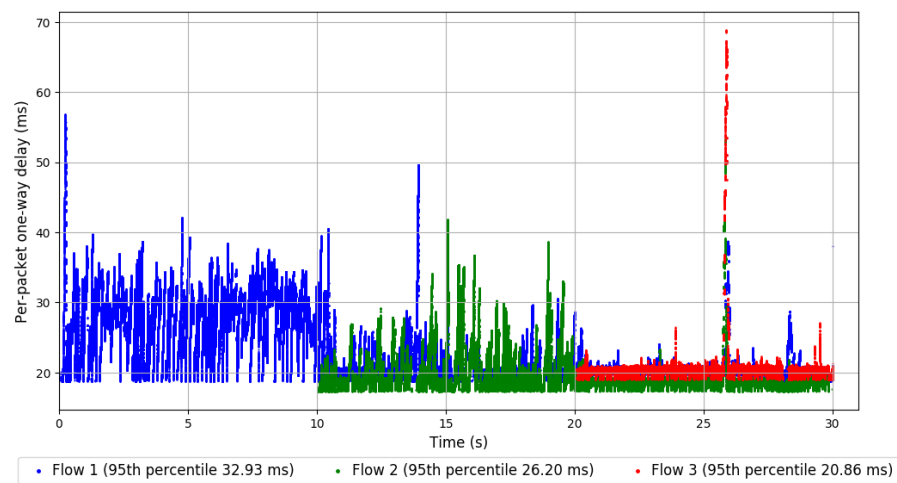
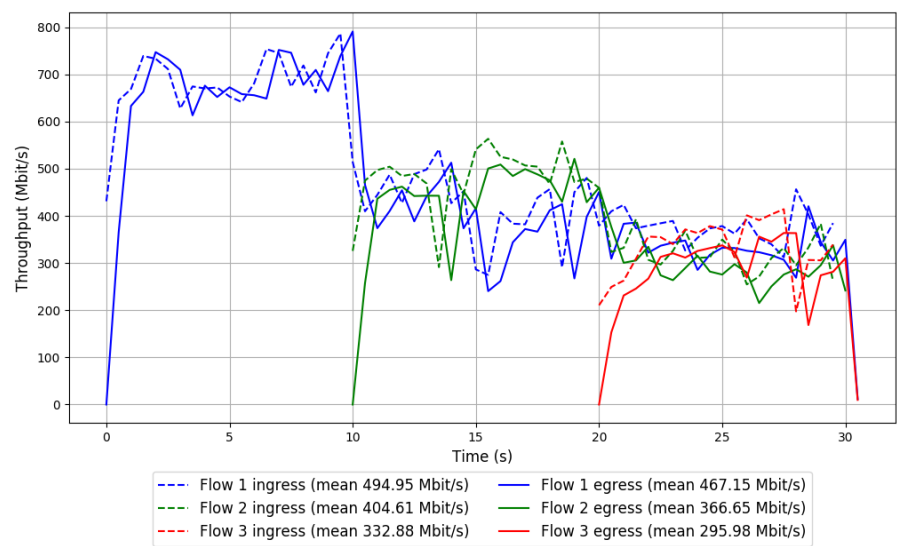
-- Flow 3:

Average throughput: 295.98 Mbit/s

95th percentile per-packet one-way delay: 20.863 ms

Loss rate: 11.08%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-24 18:43:37

End at: 2018-07-24 18:44:07

Local clock offset: 3.58 ms

Remote clock offset: 1.93 ms

Below is generated by plot.py at 2018-07-24 19:30:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 818.50 Mbit/s

95th percentile per-packet one-way delay: 31.182 ms

Loss rate: 7.58%

-- Flow 1:

Average throughput: 469.43 Mbit/s

95th percentile per-packet one-way delay: 32.564 ms

Loss rate: 5.61%

-- Flow 2:

Average throughput: 374.89 Mbit/s

95th percentile per-packet one-way delay: 25.667 ms

Loss rate: 9.00%

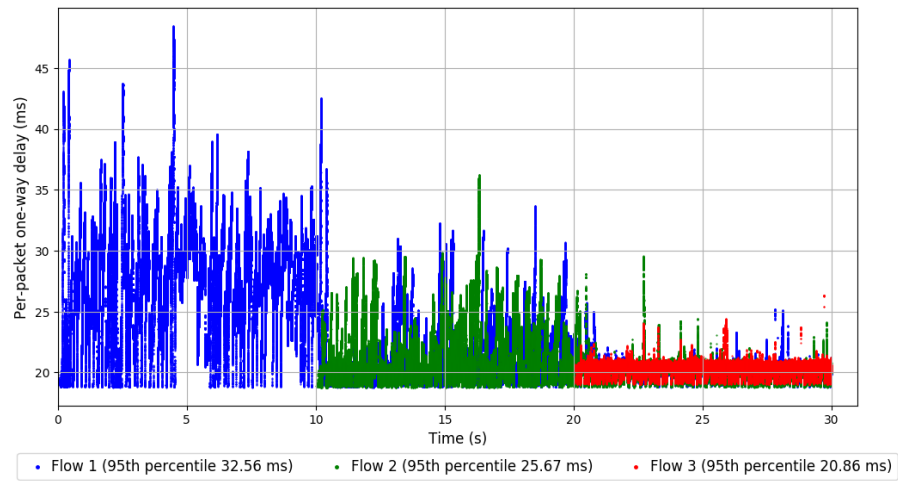
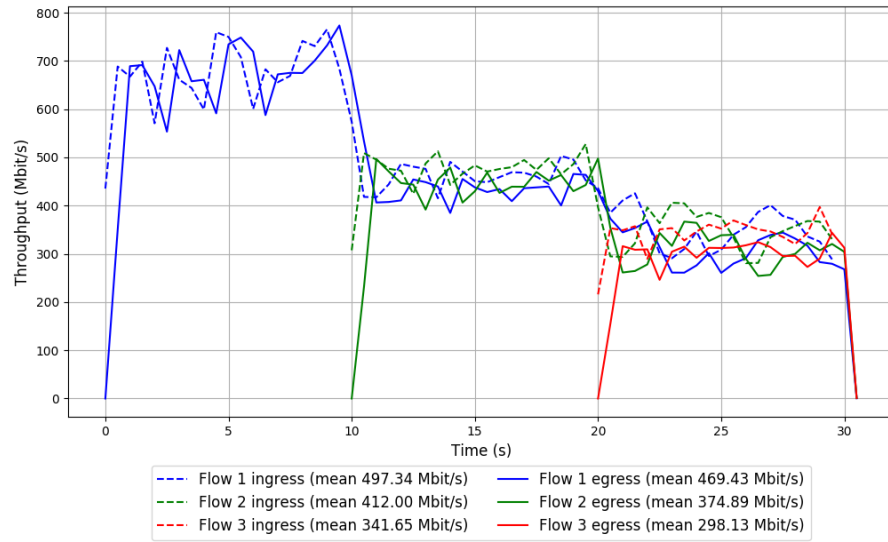
-- Flow 3:

Average throughput: 298.13 Mbit/s

95th percentile per-packet one-way delay: 20.860 ms

Loss rate: 12.74%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-24 14:47:41

End at: 2018-07-24 14:48:11

Local clock offset: 3.872 ms

Remote clock offset: 0.63 ms

Below is generated by plot.py at 2018-07-24 19:32:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 531.81 Mbit/s

95th percentile per-packet one-way delay: 22.587 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 281.98 Mbit/s

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

Loss rate: 0.18%

-- Flow 2:

Average throughput: 253.91 Mbit/s

95th percentile per-packet one-way delay: 22.679 ms

Loss rate: 0.02%

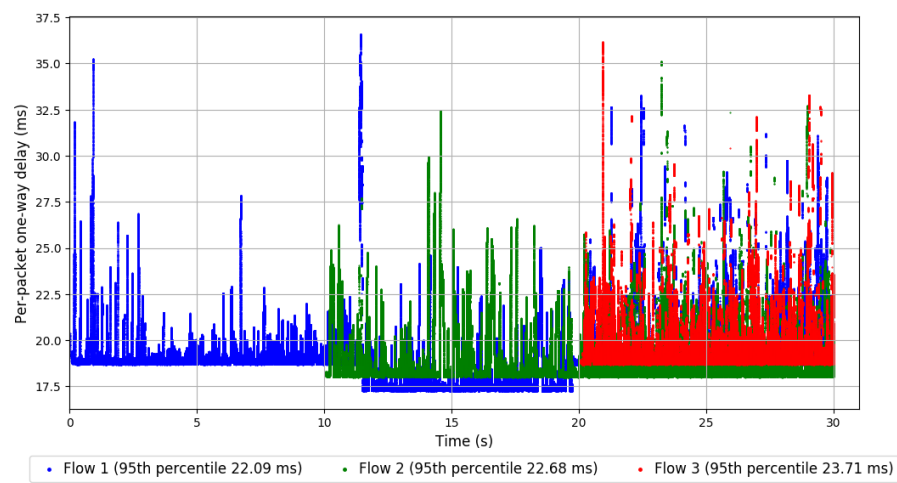
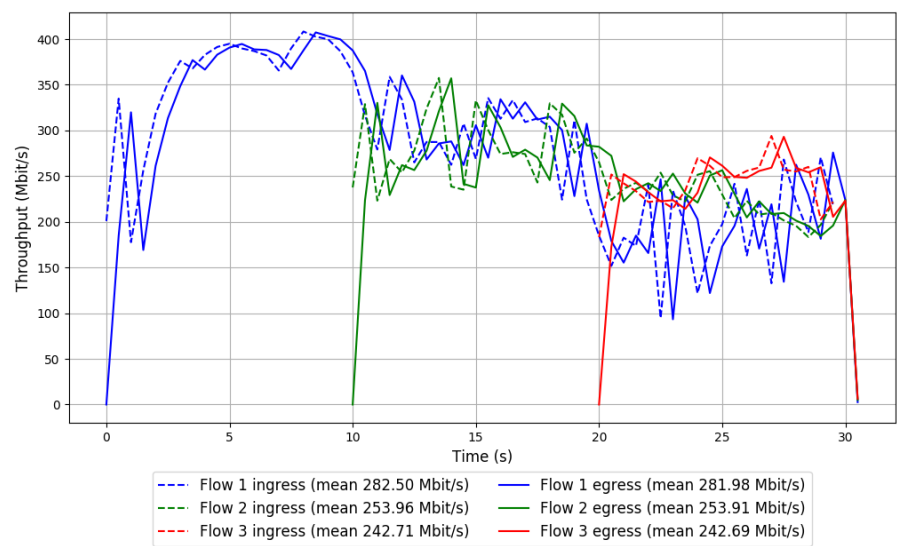
-- Flow 3:

Average throughput: 242.69 Mbit/s

95th percentile per-packet one-way delay: 23.711 ms

Loss rate: 0.02%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-24 15:14:55

End at: 2018-07-24 15:15:25

Local clock offset: 3.541 ms

Remote clock offset: 1.25 ms

Below is generated by plot.py at 2018-07-24 19:32:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 505.30 Mbit/s

95th percentile per-packet one-way delay: 22.639 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 270.04 Mbit/s

95th percentile per-packet one-way delay: 22.359 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 230.05 Mbit/s

95th percentile per-packet one-way delay: 22.035 ms

Loss rate: 0.45%

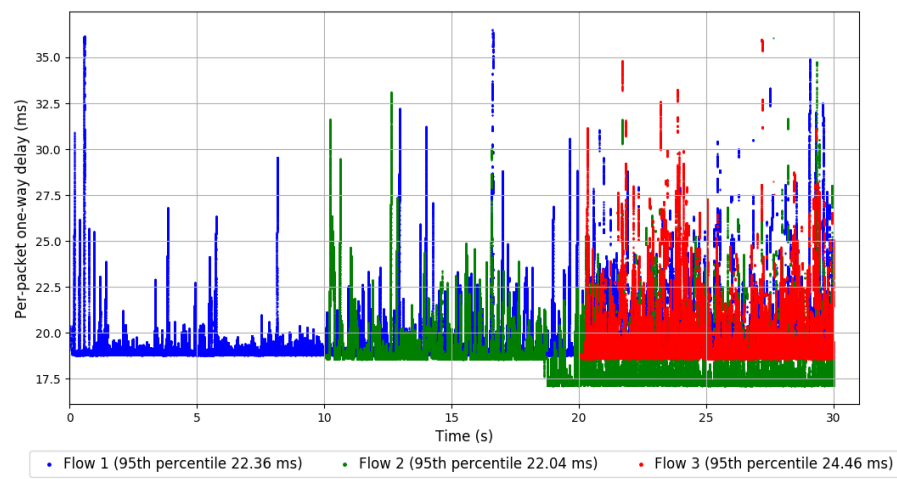
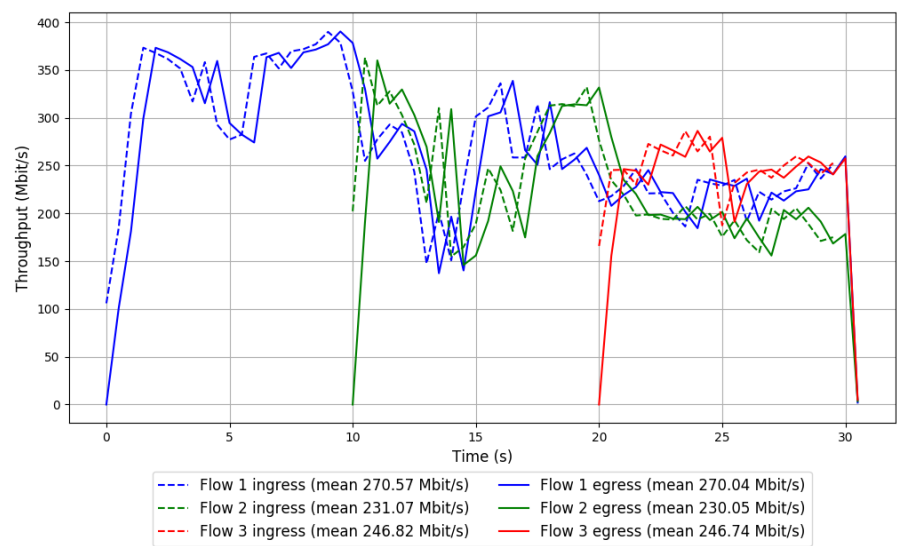
-- Flow 3:

Average throughput: 246.74 Mbit/s

95th percentile per-packet one-way delay: 24.456 ms

Loss rate: 0.03%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-24 15:42:18

End at: 2018-07-24 15:42:48

Local clock offset: 3.53 ms

Remote clock offset: 1.82 ms

Below is generated by plot.py at 2018-07-24 19:33:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 533.33 Mbit/s

95th percentile per-packet one-way delay: 23.172 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 286.76 Mbit/s

95th percentile per-packet one-way delay: 22.108 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 261.47 Mbit/s

95th percentile per-packet one-way delay: 23.357 ms

Loss rate: 0.01%

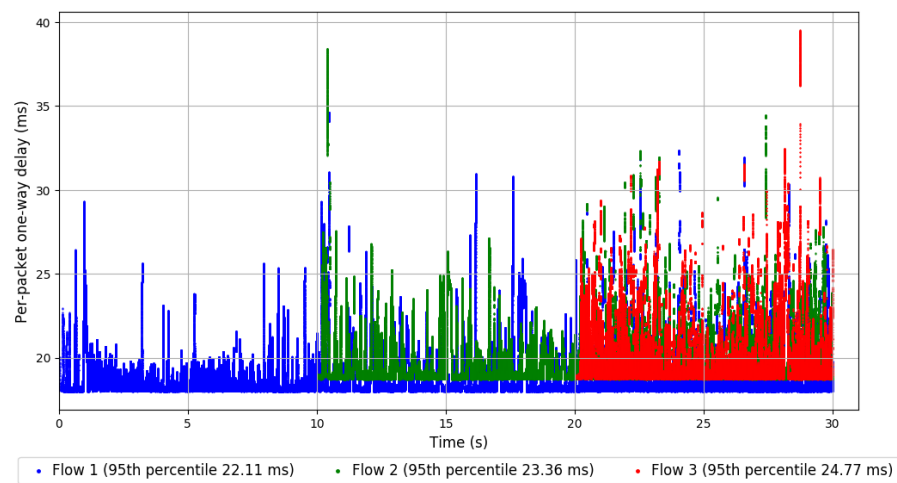
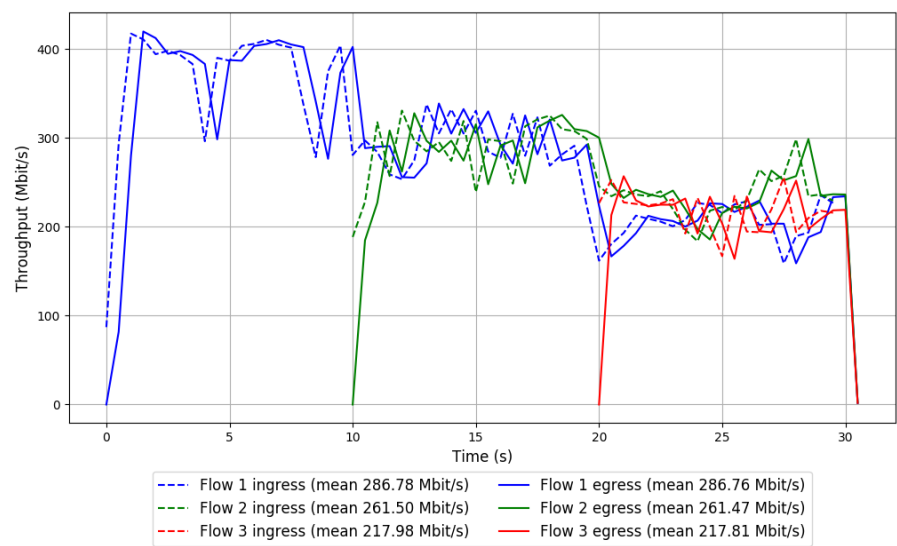
-- Flow 3:

Average throughput: 217.81 Mbit/s

95th percentile per-packet one-way delay: 24.774 ms

Loss rate: 0.09%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-24 16:09:41

End at: 2018-07-24 16:10:11

Local clock offset: 3.575 ms

Remote clock offset: 2.368 ms

Below is generated by plot.py at 2018-07-24 19:33:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 534.94 Mbit/s

95th percentile per-packet one-way delay: 22.624 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 287.59 Mbit/s

95th percentile per-packet one-way delay: 21.937 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 255.72 Mbit/s

95th percentile per-packet one-way delay: 22.747 ms

Loss rate: 0.01%

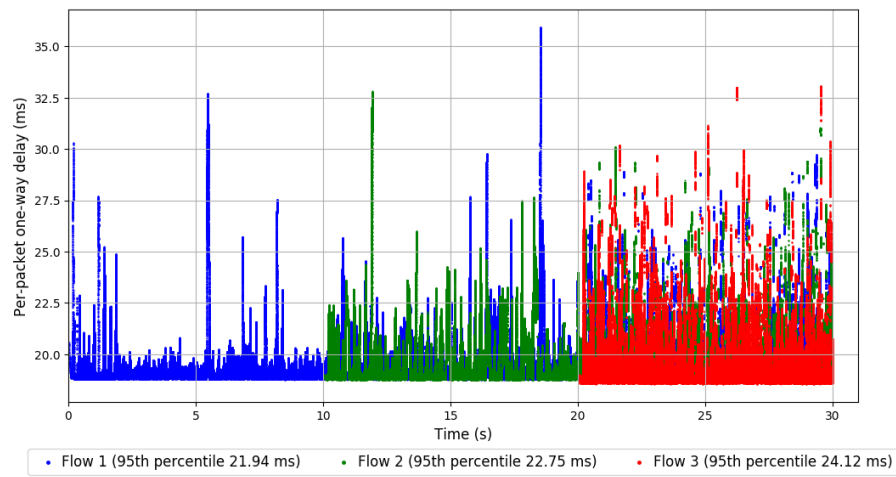
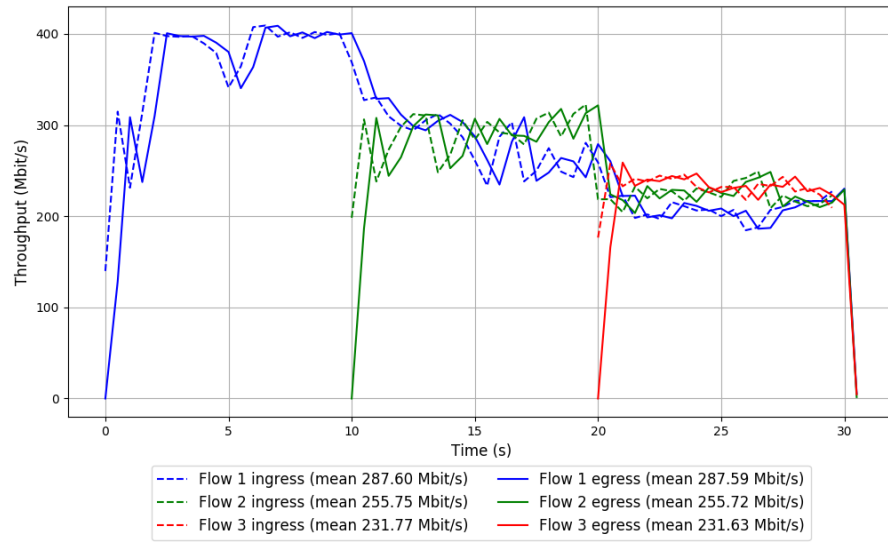
-- Flow 3:

Average throughput: 231.63 Mbit/s

95th percentile per-packet one-way delay: 24.118 ms

Loss rate: 0.06%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-24 16:36:48

End at: 2018-07-24 16:37:18

Local clock offset: 3.515 ms

Remote clock offset: 2.901 ms

Below is generated by plot.py at 2018-07-24 19:33:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 521.13 Mbit/s

95th percentile per-packet one-way delay: 22.486 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 283.26 Mbit/s

95th percentile per-packet one-way delay: 21.668 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 237.69 Mbit/s

95th percentile per-packet one-way delay: 22.592 ms

Loss rate: 0.01%

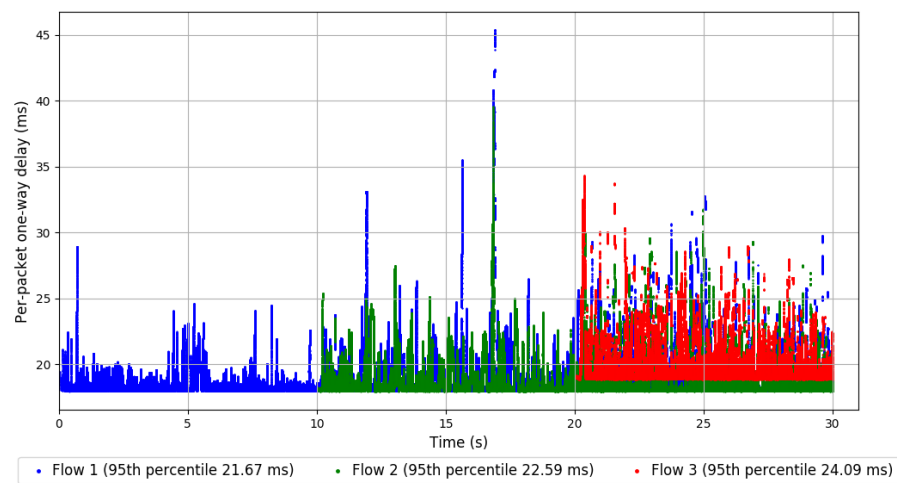
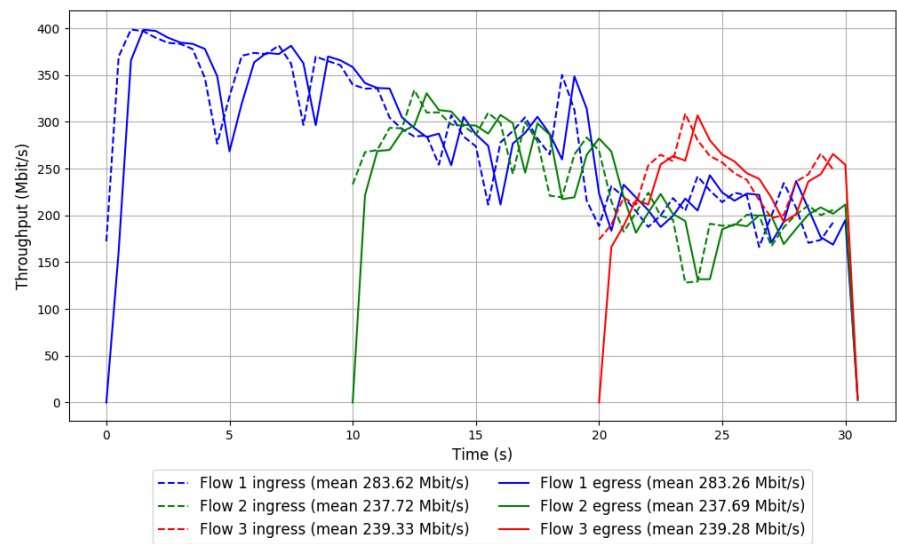
-- Flow 3:

Average throughput: 239.28 Mbit/s

95th percentile per-packet one-way delay: 24.094 ms

Loss rate: 0.03%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-24 17:04:04

End at: 2018-07-24 17:04:34

Local clock offset: 3.67 ms

Remote clock offset: 2.771 ms

Below is generated by plot.py at 2018-07-24 19:33:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 504.22 Mbit/s

95th percentile per-packet one-way delay: 22.422 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 275.18 Mbit/s

95th percentile per-packet one-way delay: 22.137 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 254.28 Mbit/s

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

Loss rate: 0.01%

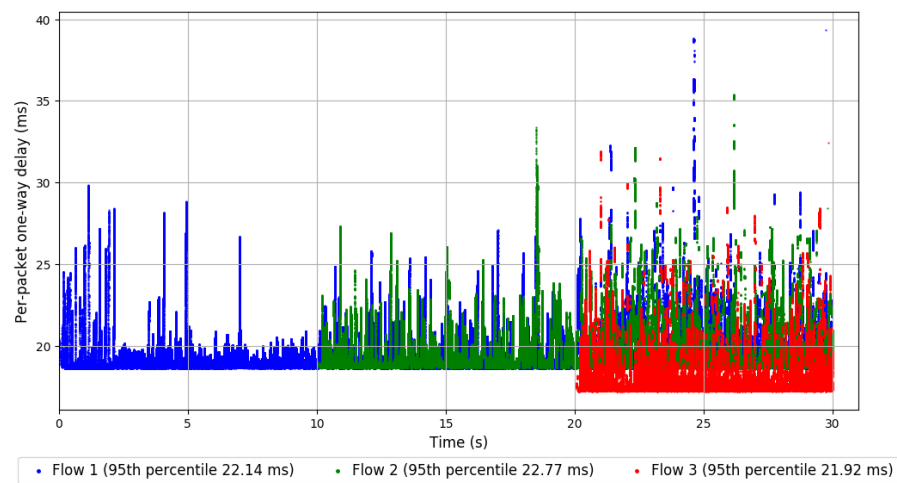
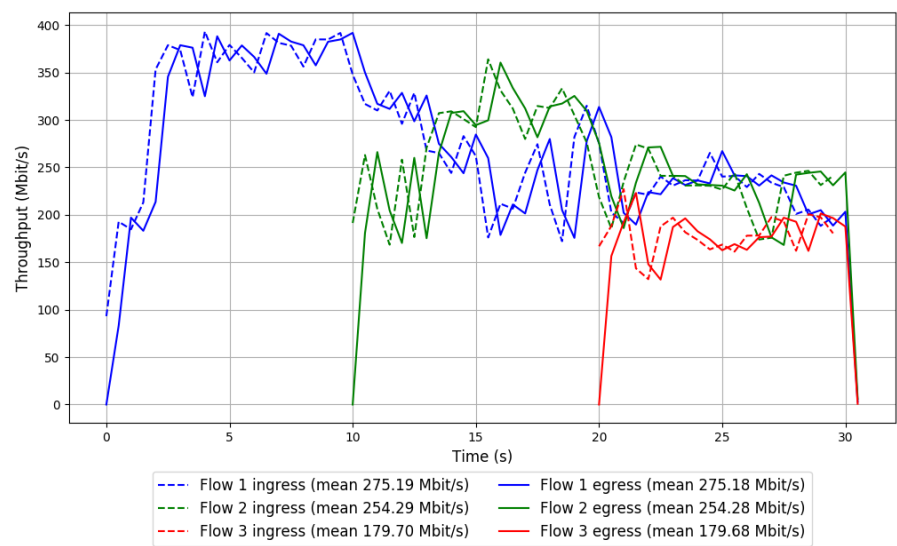
-- Flow 3:

Average throughput: 179.68 Mbit/s

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

Loss rate: 0.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-24 17:31:33

End at: 2018-07-24 17:32:03

Local clock offset: 3.396 ms

Remote clock offset: 2.635 ms

Below is generated by plot.py at 2018-07-24 19:42:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 523.72 Mbit/s

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

Loss rate: 0.04%

-- Flow 1:

Average throughput: 289.96 Mbit/s

95th percentile per-packet one-way delay: 22.753 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 249.45 Mbit/s

95th percentile per-packet one-way delay: 22.859 ms

Loss rate: 0.06%

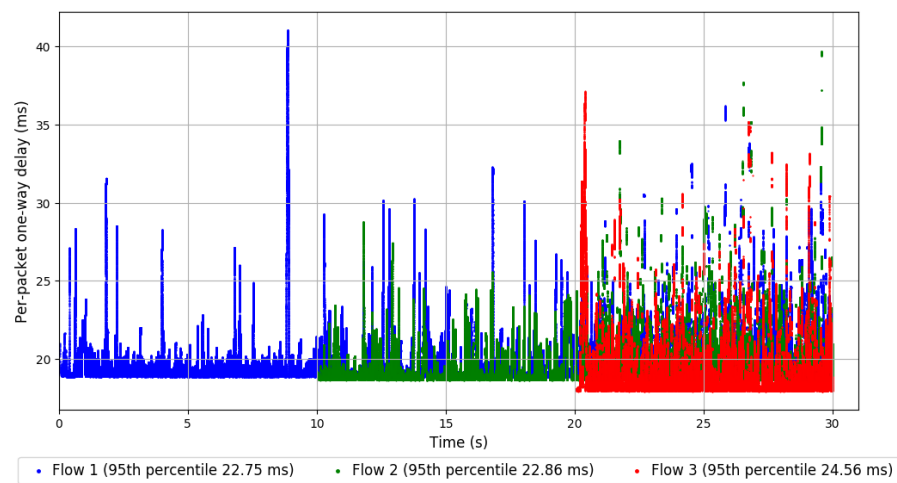
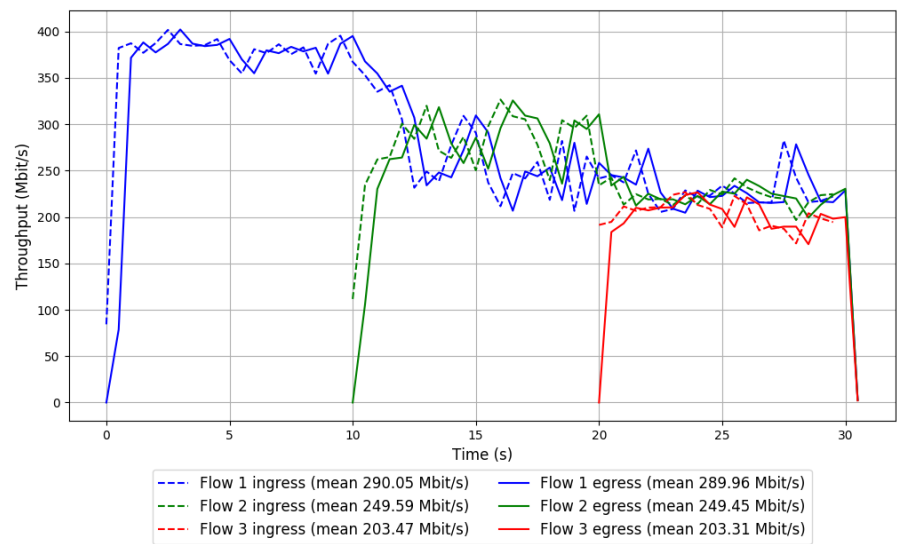
-- Flow 3:

Average throughput: 203.31 Mbit/s

95th percentile per-packet one-way delay: 24.563 ms

Loss rate: 0.08%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-24 17:58:51

End at: 2018-07-24 17:59:21

Local clock offset: 3.217 ms

Remote clock offset: 2.34 ms

Below is generated by plot.py at 2018-07-24 19:42:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 497.85 Mbit/s

95th percentile per-packet one-way delay: 23.323 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 255.94 Mbit/s

95th percentile per-packet one-way delay: 22.297 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 249.16 Mbit/s

95th percentile per-packet one-way delay: 23.952 ms

Loss rate: 0.01%

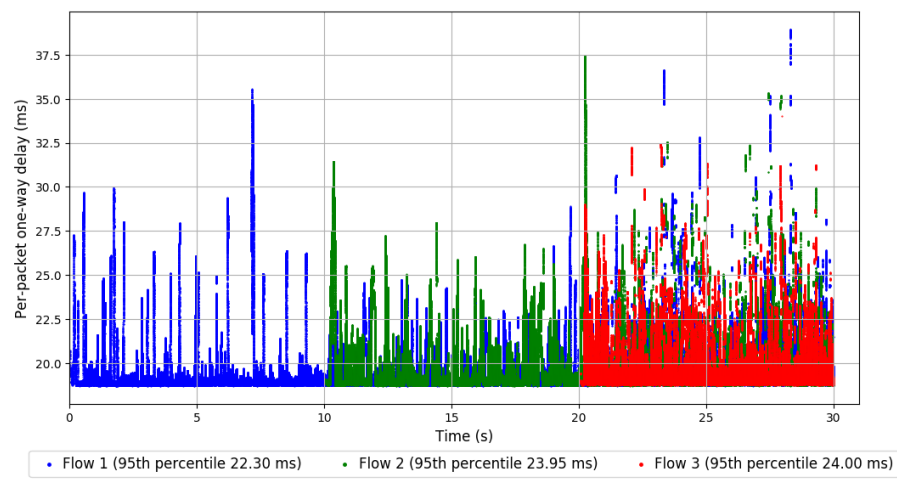
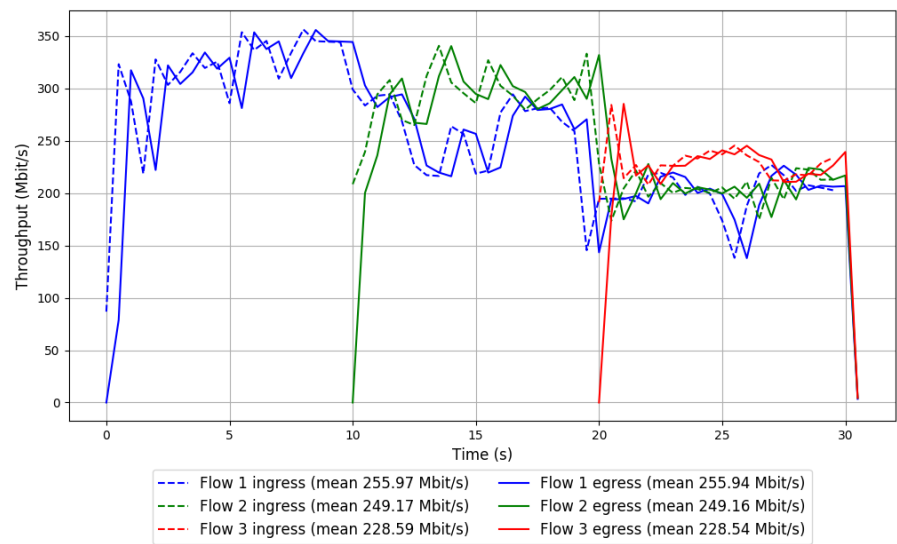
-- Flow 3:

Average throughput: 228.54 Mbit/s

95th percentile per-packet one-way delay: 23.997 ms

Loss rate: 0.02%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-24 18:25:51

End at: 2018-07-24 18:26:21

Local clock offset: 3.759 ms

Remote clock offset: 1.989 ms

Below is generated by plot.py at 2018-07-24 19:43:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 508.46 Mbit/s

95th percentile per-packet one-way delay: 23.011 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 273.46 Mbit/s

95th percentile per-packet one-way delay: 22.352 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 244.42 Mbit/s

95th percentile per-packet one-way delay: 23.948 ms

Loss rate: 0.45%

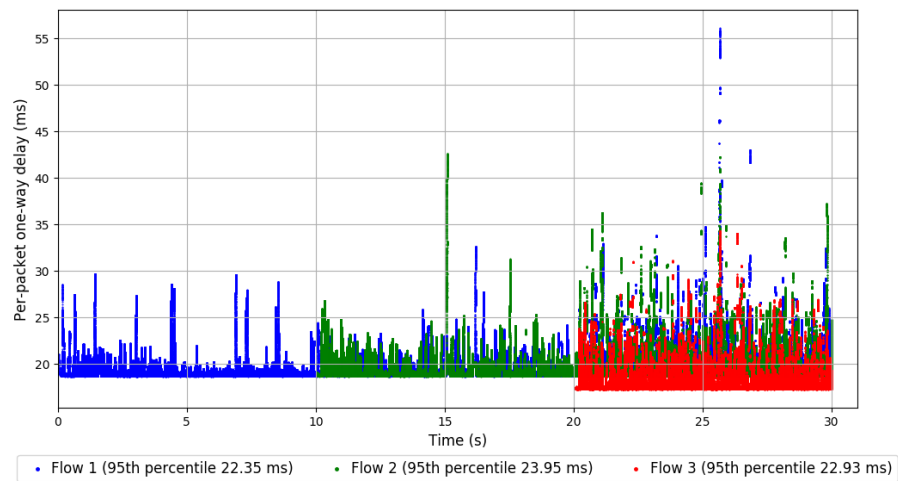
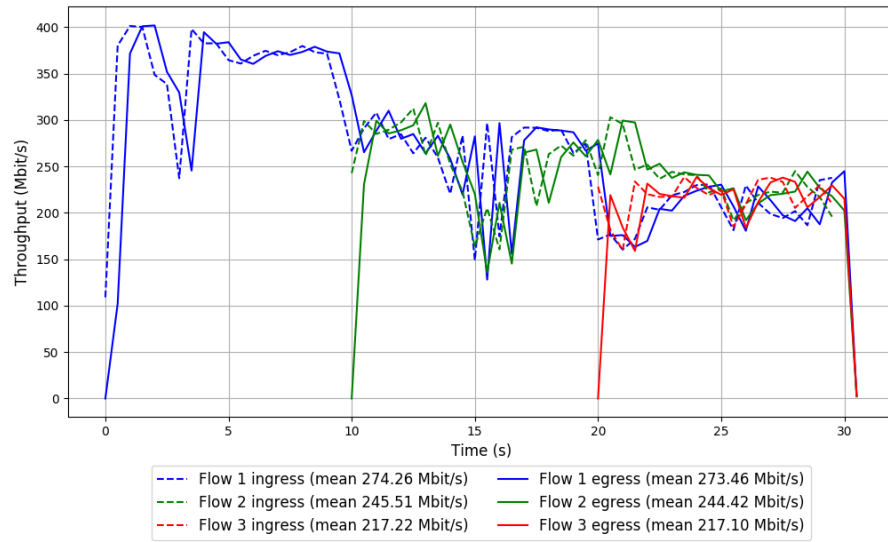
-- Flow 3:

Average throughput: 217.10 Mbit/s

95th percentile per-packet one-way delay: 22.927 ms

Loss rate: 0.05%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-24 18:52:58

End at: 2018-07-24 18:53:28

Local clock offset: 3.814 ms

Remote clock offset: 1.788 ms

Below is generated by plot.py at 2018-07-24 19:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 533.99 Mbit/s

95th percentile per-packet one-way delay: 22.898 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 292.17 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 258.96 Mbit/s

95th percentile per-packet one-way delay: 22.452 ms

Loss rate: 0.03%

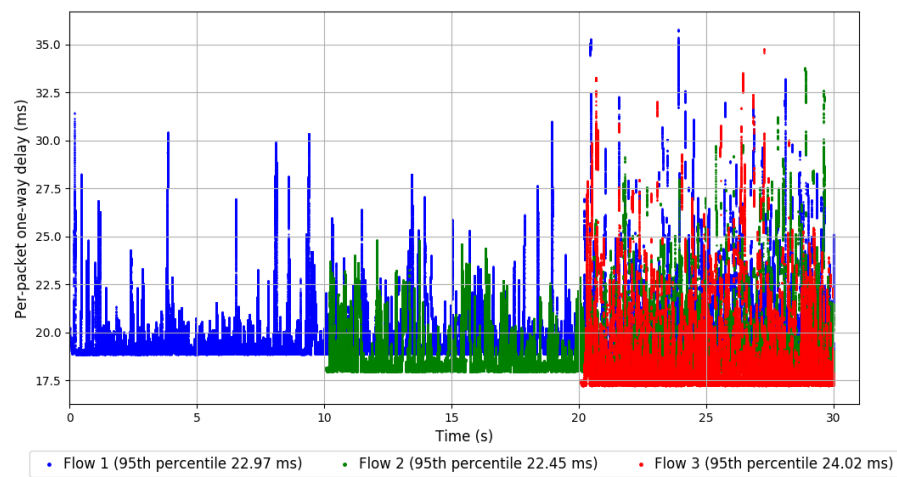
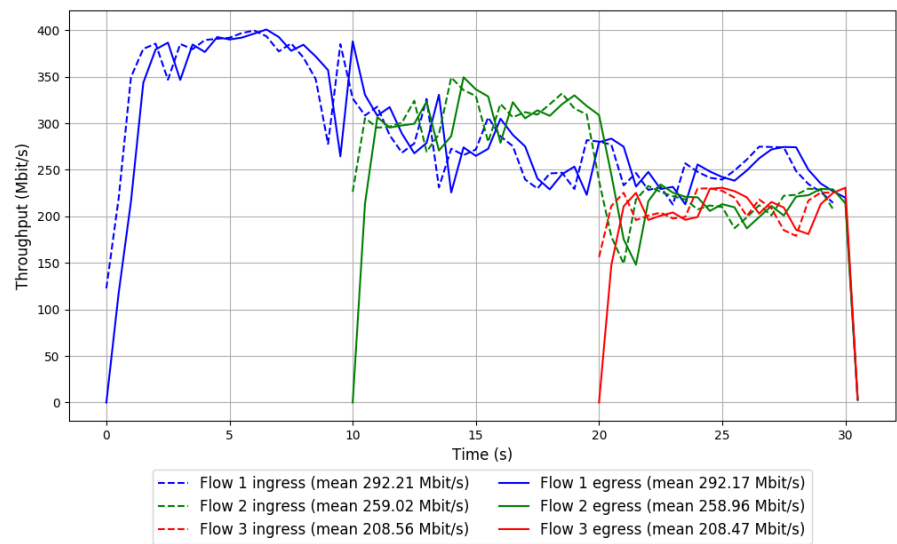
-- Flow 3:

Average throughput: 208.47 Mbit/s

95th percentile per-packet one-way delay: 24.020 ms

Loss rate: 0.04%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-24 14:28:44

End at: 2018-07-24 14:29:14

Local clock offset: 3.624 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-07-24 19:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 456.70 Mbit/s

95th percentile per-packet one-way delay: 23.412 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 324.82 Mbit/s

95th percentile per-packet one-way delay: 23.455 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 125.18 Mbit/s

95th percentile per-packet one-way delay: 21.544 ms

Loss rate: 0.11%

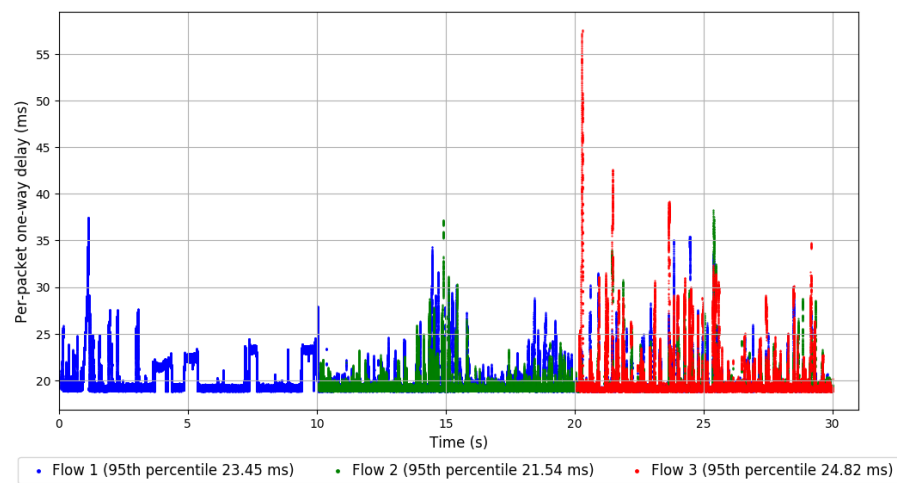
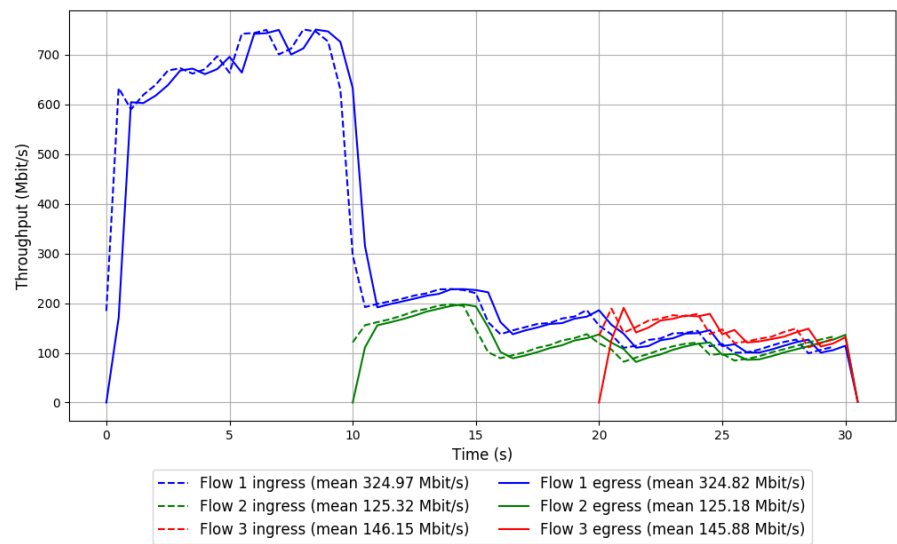
-- Flow 3:

Average throughput: 145.88 Mbit/s

95th percentile per-packet one-way delay: 24.817 ms

Loss rate: 0.17%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-24 14:55:53

End at: 2018-07-24 14:56:23

Local clock offset: 3.985 ms

Remote clock offset: 0.805 ms

Below is generated by plot.py at 2018-07-24 19:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 456.94 Mbit/s

95th percentile per-packet one-way delay: 24.462 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 138.34 Mbit/s

95th percentile per-packet one-way delay: 22.829 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 413.93 Mbit/s

95th percentile per-packet one-way delay: 26.748 ms

Loss rate: 0.11%

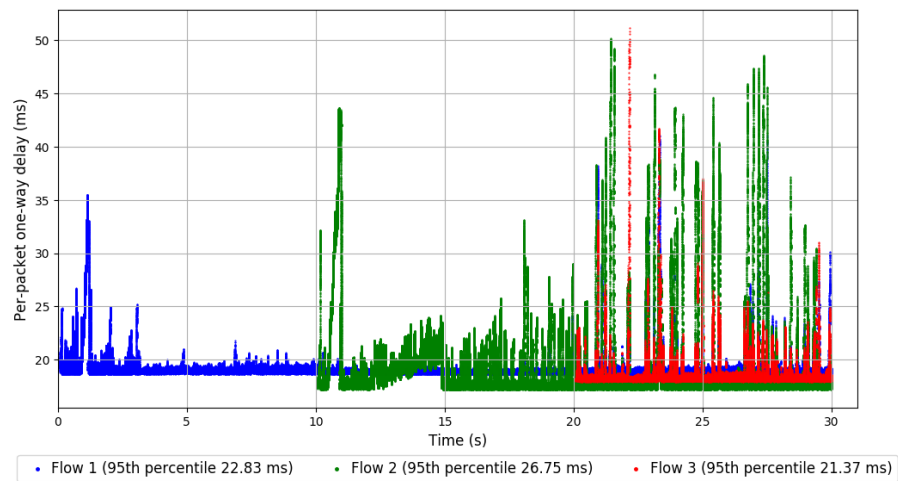
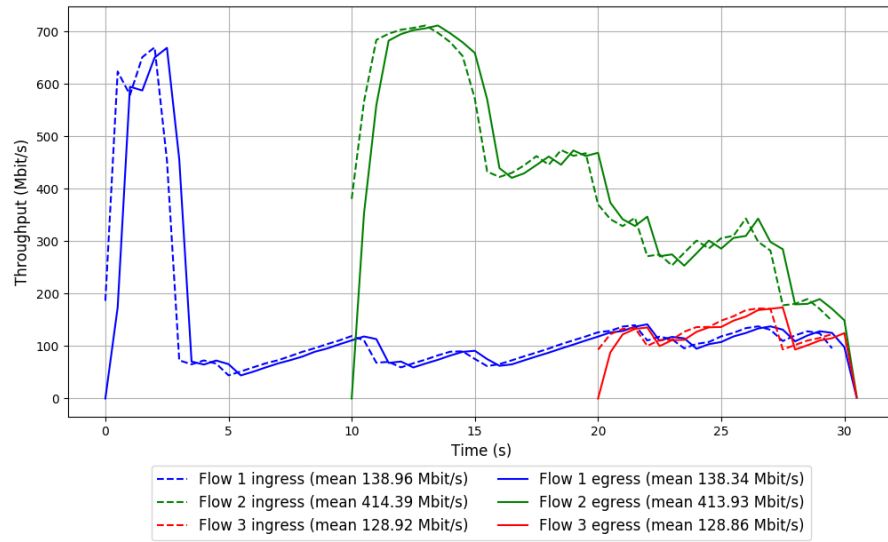
-- Flow 3:

Average throughput: 128.86 Mbit/s

95th percentile per-packet one-way delay: 21.371 ms

Loss rate: 0.04%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-24 15:23:10

End at: 2018-07-24 15:23:40

Local clock offset: 3.302 ms

Remote clock offset: 1.484 ms

Below is generated by plot.py at 2018-07-24 19:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 486.84 Mbit/s

95th percentile per-packet one-way delay: 27.988 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 241.58 Mbit/s

95th percentile per-packet one-way delay: 24.665 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 273.25 Mbit/s

95th percentile per-packet one-way delay: 32.147 ms

Loss rate: 0.38%

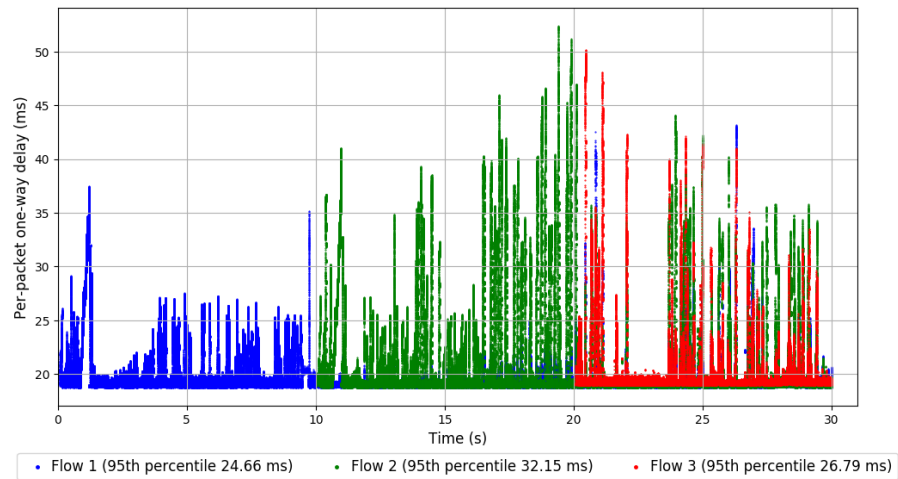
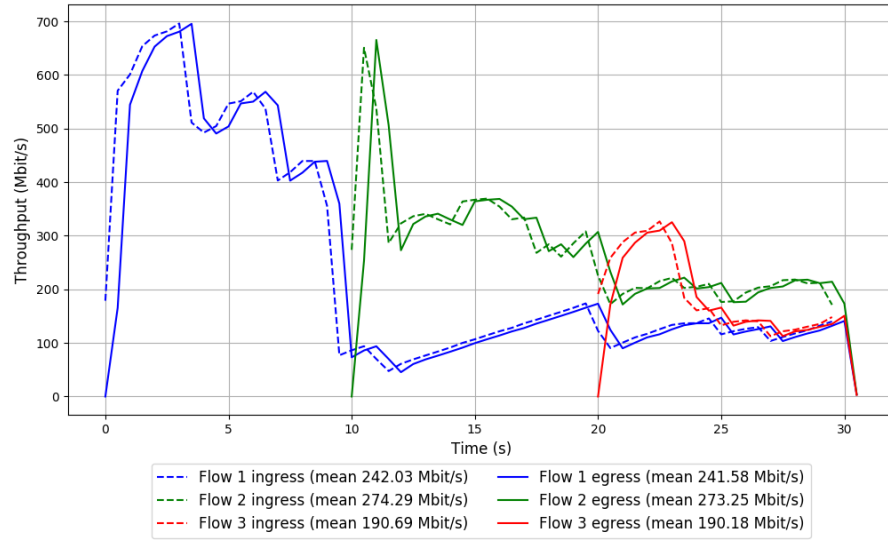
-- Flow 3:

Average throughput: 190.18 Mbit/s

95th percentile per-packet one-way delay: 26.789 ms

Loss rate: 0.29%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-24 15:50:36

End at: 2018-07-24 15:51:06

Local clock offset: 3.578 ms

Remote clock offset: 2.017 ms

Below is generated by plot.py at 2018-07-24 19:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 373.09 Mbit/s

95th percentile per-packet one-way delay: 23.845 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 213.49 Mbit/s

95th percentile per-packet one-way delay: 23.645 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 162.88 Mbit/s

95th percentile per-packet one-way delay: 24.240 ms

Loss rate: 0.05%

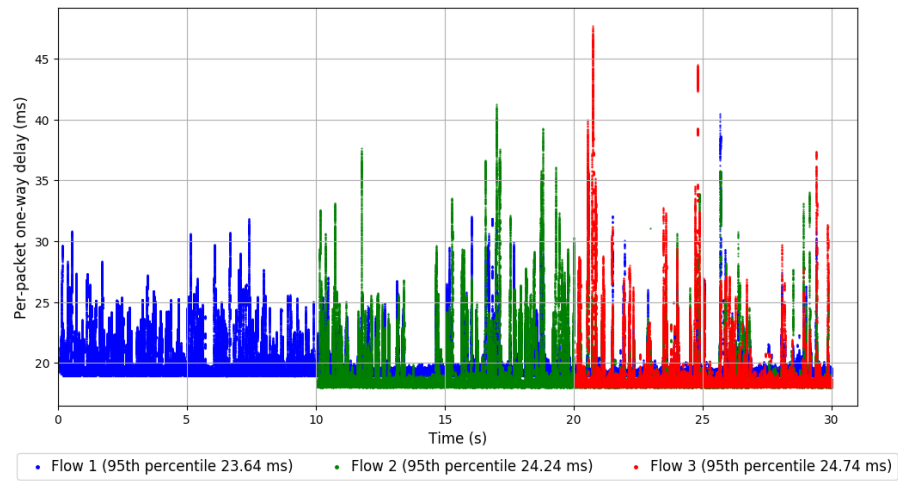
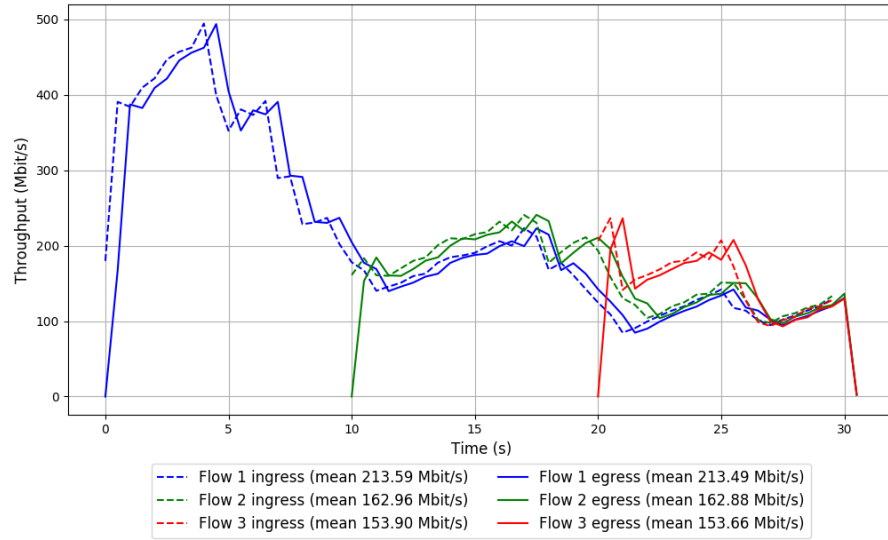
-- Flow 3:

Average throughput: 153.66 Mbit/s

95th percentile per-packet one-way delay: 24.736 ms

Loss rate: 0.15%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-24 16:17:57

End at: 2018-07-24 16:18:27

Local clock offset: 3.54 ms

Remote clock offset: 2.552 ms

Below is generated by plot.py at 2018-07-24 19:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 373.08 Mbit/s

95th percentile per-packet one-way delay: 24.121 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 217.39 Mbit/s

95th percentile per-packet one-way delay: 23.924 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 149.73 Mbit/s

95th percentile per-packet one-way delay: 24.445 ms

Loss rate: 0.20%

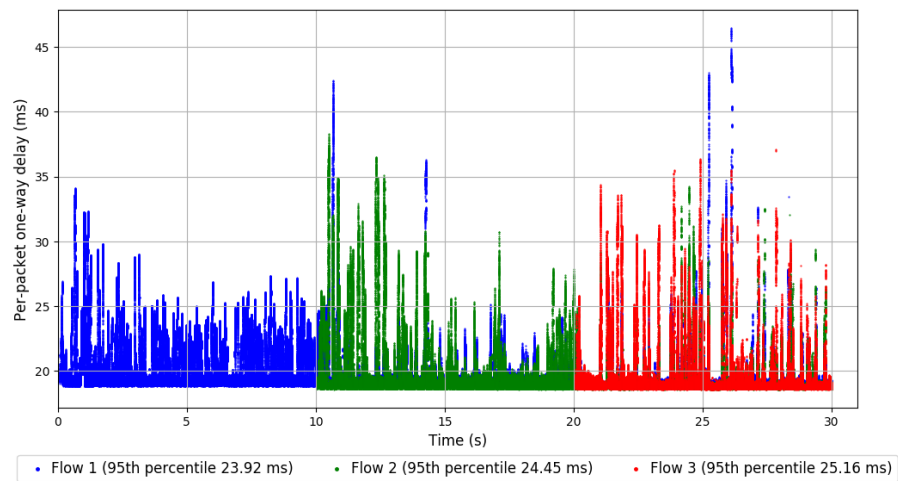
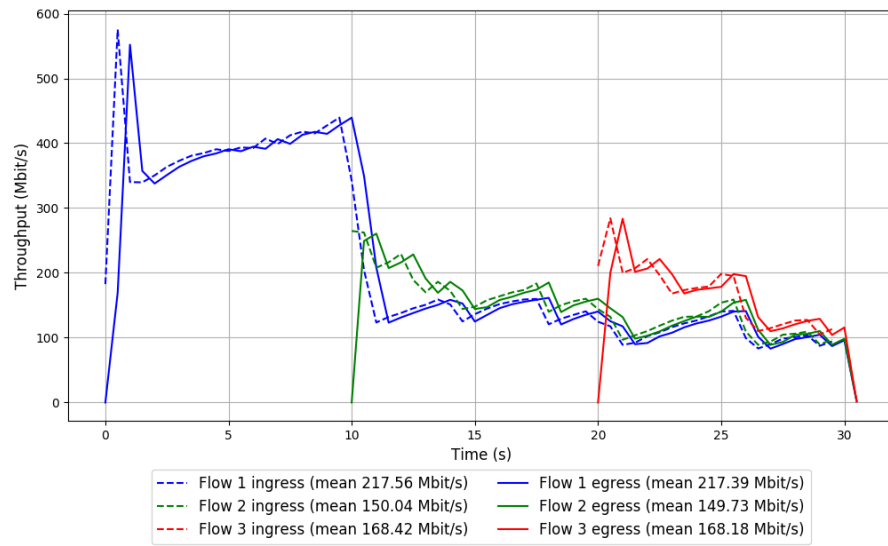
-- Flow 3:

Average throughput: 168.18 Mbit/s

95th percentile per-packet one-way delay: 25.155 ms

Loss rate: 0.14%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-24 16:45:05

End at: 2018-07-24 16:45:35

Local clock offset: 3.436 ms

Remote clock offset: 2.853 ms

Below is generated by plot.py at 2018-07-24 19:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 378.57 Mbit/s

95th percentile per-packet one-way delay: 24.905 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 195.04 Mbit/s

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

Loss rate: 0.07%

-- Flow 2:

Average throughput: 203.57 Mbit/s

95th percentile per-packet one-way delay: 30.557 ms

Loss rate: 0.09%

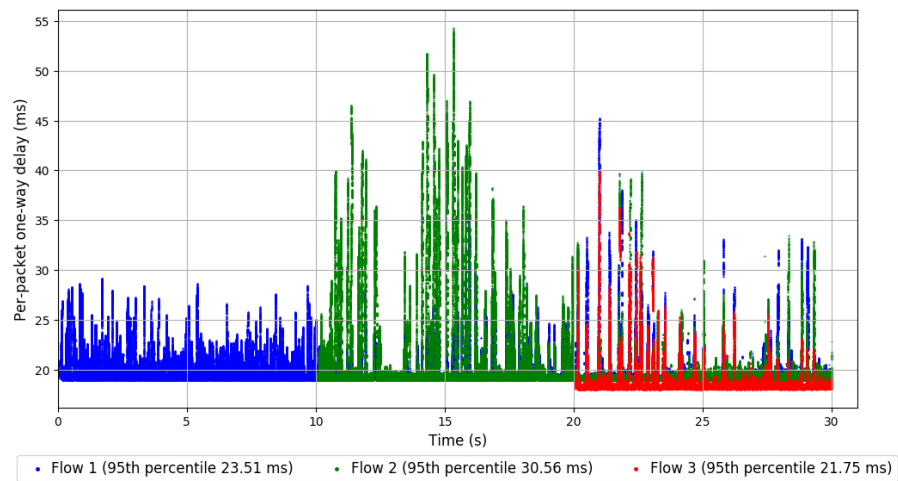
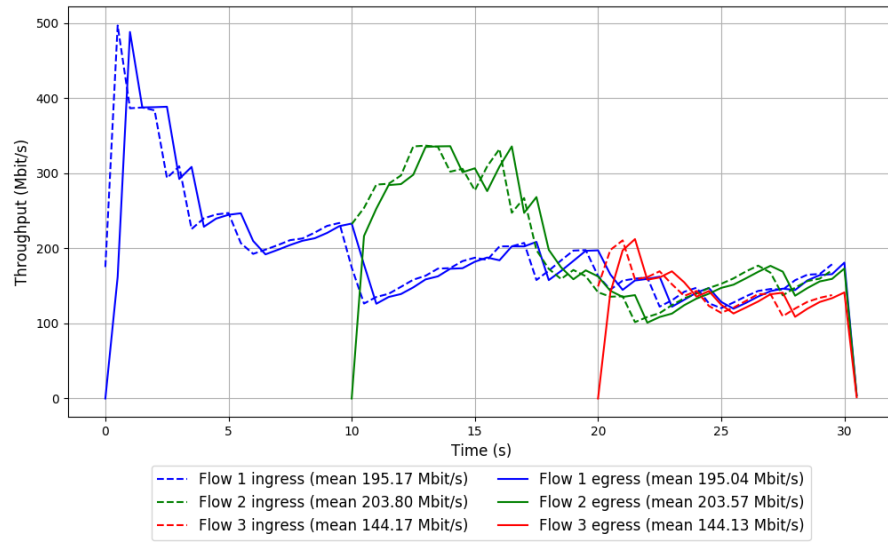
-- Flow 3:

Average throughput: 144.13 Mbit/s

95th percentile per-packet one-way delay: 21.752 ms

Loss rate: 0.05%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-24 17:12:27

End at: 2018-07-24 17:12:57

Local clock offset: 3.599 ms

Remote clock offset: 2.731 ms

Below is generated by plot.py at 2018-07-24 19:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 464.04 Mbit/s

95th percentile per-packet one-way delay: 24.982 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 235.71 Mbit/s

95th percentile per-packet one-way delay: 23.647 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 239.95 Mbit/s

95th percentile per-packet one-way delay: 28.273 ms

Loss rate: 0.11%

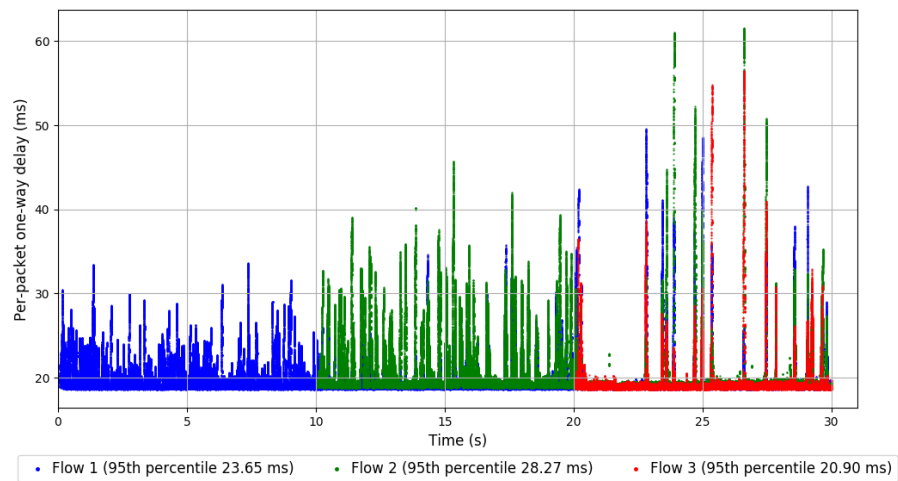
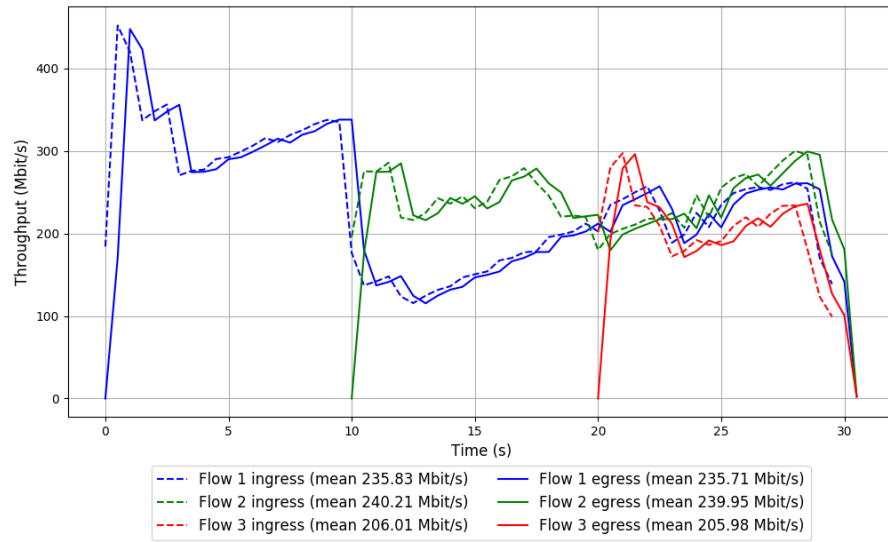
-- Flow 3:

Average throughput: 205.98 Mbit/s

95th percentile per-packet one-way delay: 20.898 ms

Loss rate: 0.02%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-24 17:40:00

End at: 2018-07-24 17:40:31

Local clock offset: 3.297 ms

Remote clock offset: 2.618 ms

Below is generated by plot.py at 2018-07-24 19:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.32 Mbit/s

95th percentile per-packet one-way delay: 23.189 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 162.41 Mbit/s

95th percentile per-packet one-way delay: 23.358 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 111.69 Mbit/s

95th percentile per-packet one-way delay: 22.811 ms

Loss rate: 0.25%

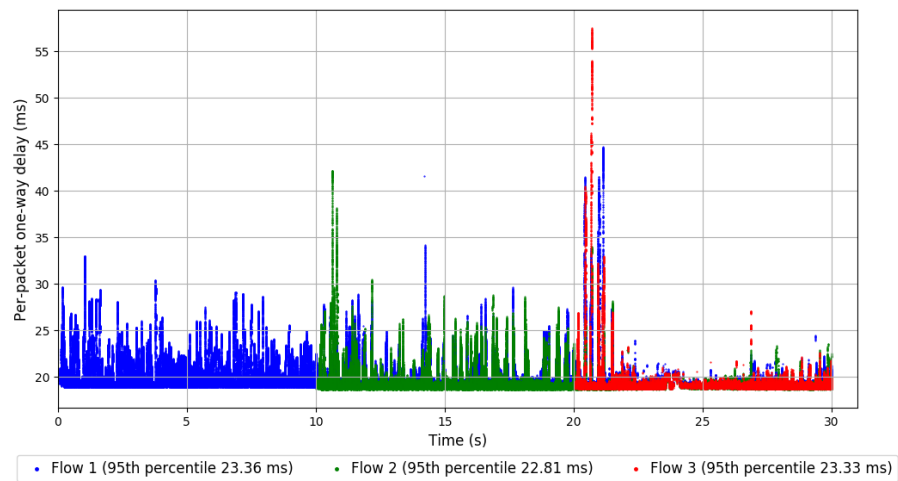
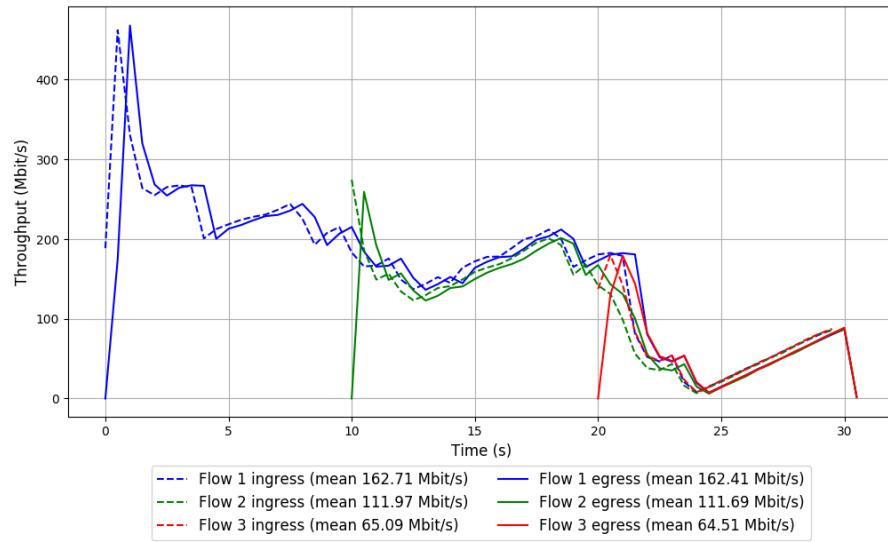
-- Flow 3:

Average throughput: 64.51 Mbit/s

95th percentile per-packet one-way delay: 23.329 ms

Loss rate: 0.89%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-24 18:07:02

End at: 2018-07-24 18:07:32

Local clock offset: 3.298 ms

Remote clock offset: 2.228 ms

Below is generated by plot.py at 2018-07-24 19:45:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.07 Mbit/s

95th percentile per-packet one-way delay: 22.676 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 170.93 Mbit/s

95th percentile per-packet one-way delay: 22.677 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 129.15 Mbit/s

95th percentile per-packet one-way delay: 22.607 ms

Loss rate: 0.09%

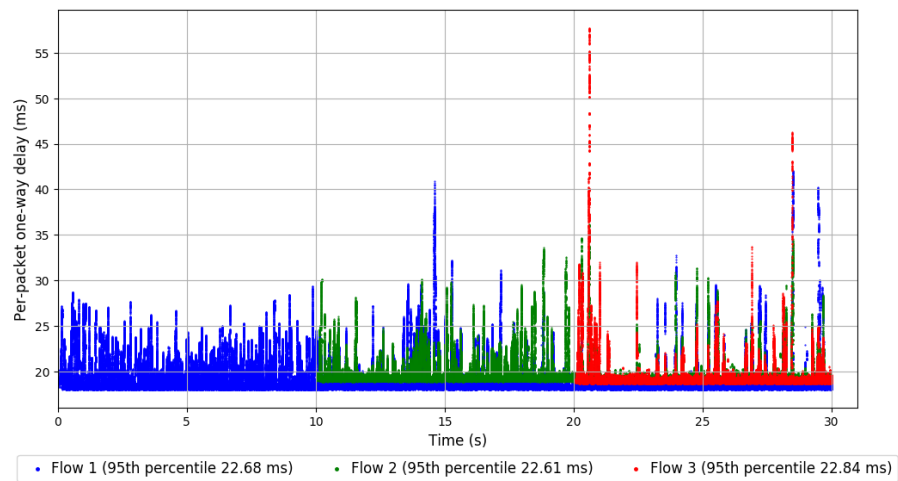
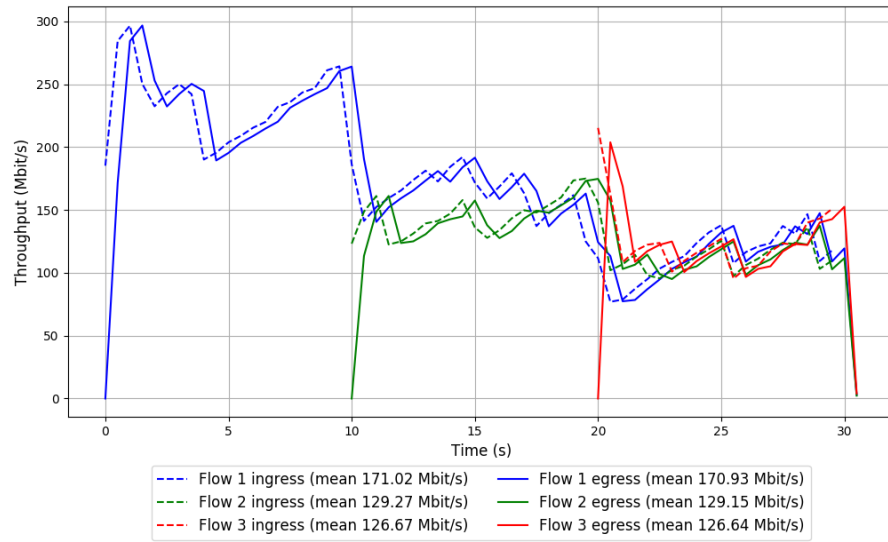
-- Flow 3:

Average throughput: 126.64 Mbit/s

95th percentile per-packet one-way delay: 22.841 ms

Loss rate: 0.02%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-24 18:34:09

End at: 2018-07-24 18:34:39

Local clock offset: 3.829 ms

Remote clock offset: 1.968 ms

Below is generated by plot.py at 2018-07-24 19:45:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.28 Mbit/s

95th percentile per-packet one-way delay: 22.703 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 144.03 Mbit/s

95th percentile per-packet one-way delay: 22.956 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 82.45 Mbit/s

95th percentile per-packet one-way delay: 20.074 ms

Loss rate: 0.40%

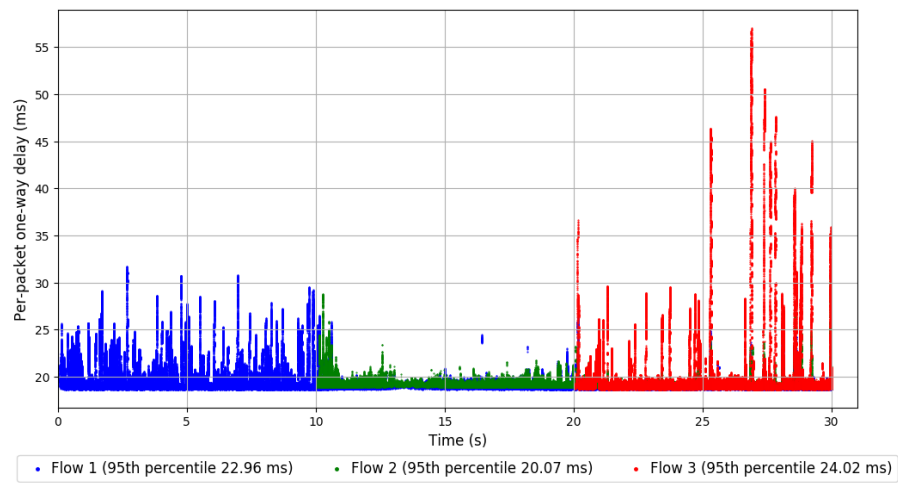
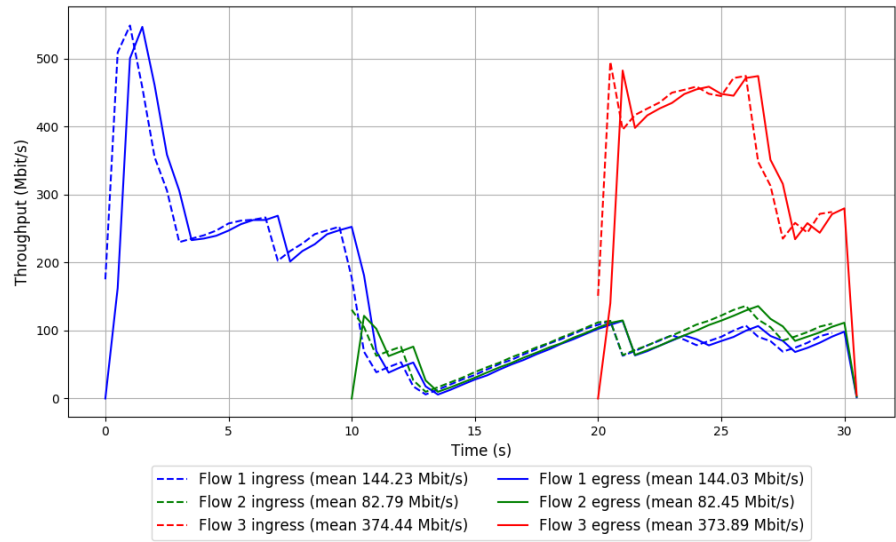
-- Flow 3:

Average throughput: 373.89 Mbit/s

95th percentile per-packet one-way delay: 24.018 ms

Loss rate: 0.13%

Run 10: Report of TCP Cubic — Data Link

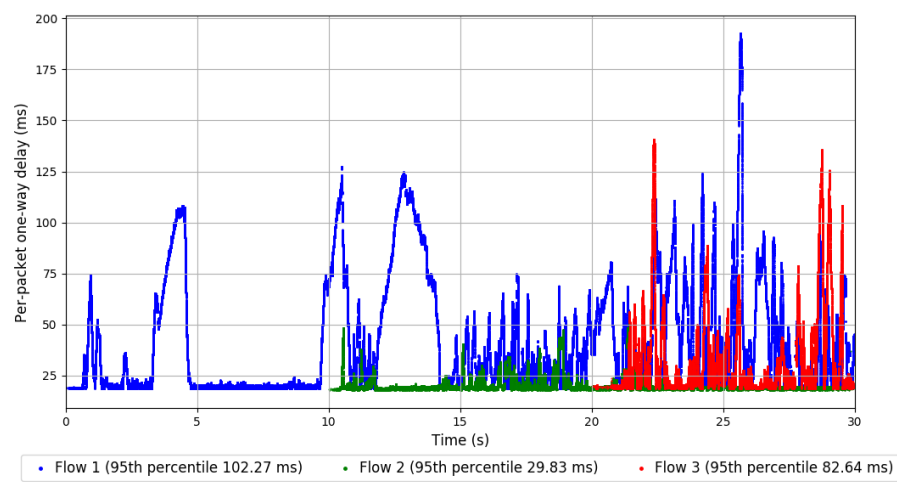
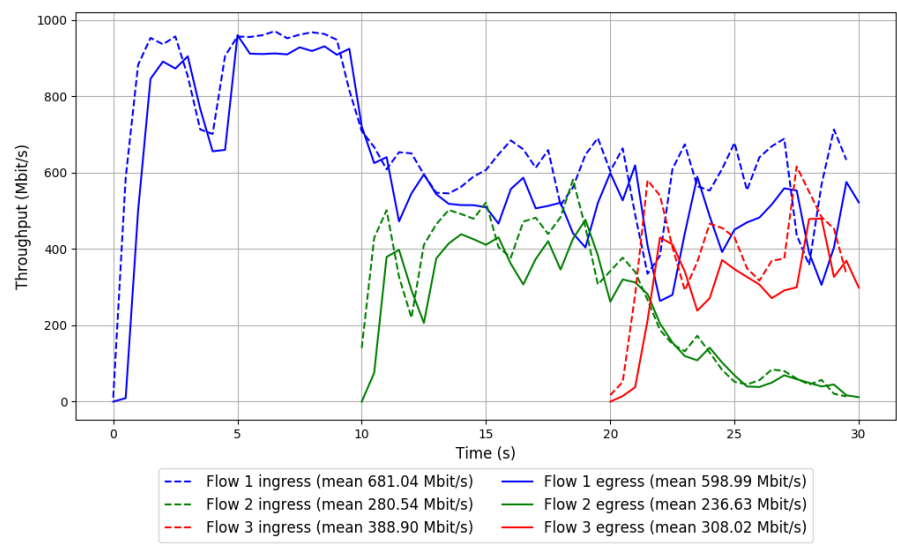


Run 1: Statistics of FillP

Start at: 2018-07-24 14:22:16
End at: 2018-07-24 14:22:46
Local clock offset: 3.628 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2018-07-24 19:54:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 858.76 Mbit/s
95th percentile per-packet one-way delay: 96.750 ms
Loss rate: 13.85%
-- Flow 1:
Average throughput: 598.99 Mbit/s
95th percentile per-packet one-way delay: 102.273 ms
Loss rate: 12.05%
-- Flow 2:
Average throughput: 236.63 Mbit/s
95th percentile per-packet one-way delay: 29.826 ms
Loss rate: 15.65%
-- Flow 3:
Average throughput: 308.02 Mbit/s
95th percentile per-packet one-way delay: 82.644 ms
Loss rate: 20.79%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-24 14:49:31

End at: 2018-07-24 14:50:01

Local clock offset: 3.809 ms

Remote clock offset: 0.65 ms

Below is generated by plot.py at 2018-07-24 19:54:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 592.04 Mbit/s

95th percentile per-packet one-way delay: 121.496 ms

Loss rate: 13.74%

-- Flow 1:

Average throughput: 79.21 Mbit/s

95th percentile per-packet one-way delay: 92.097 ms

Loss rate: 7.03%

-- Flow 2:

Average throughput: 596.96 Mbit/s

95th percentile per-packet one-way delay: 130.363 ms

Loss rate: 13.59%

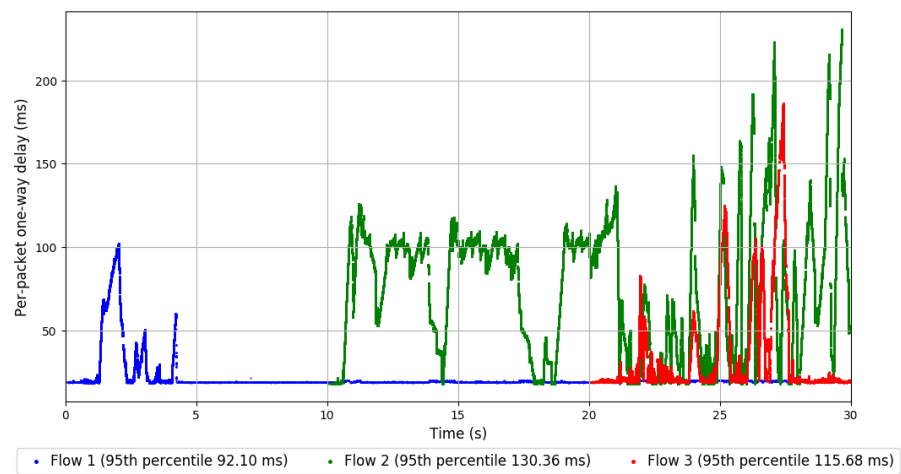
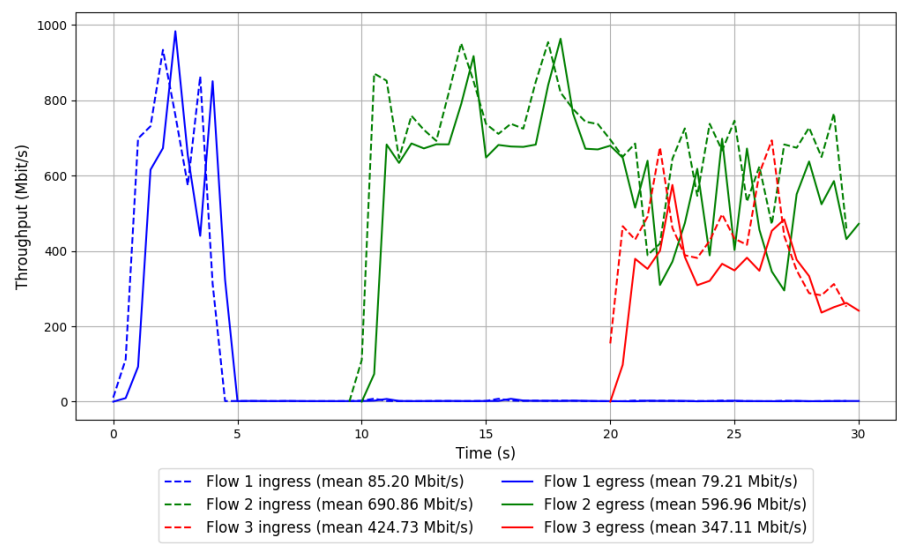
-- Flow 3:

Average throughput: 347.11 Mbit/s

95th percentile per-packet one-way delay: 115.681 ms

Loss rate: 18.27%

Run 2: Report of FillP — Data Link

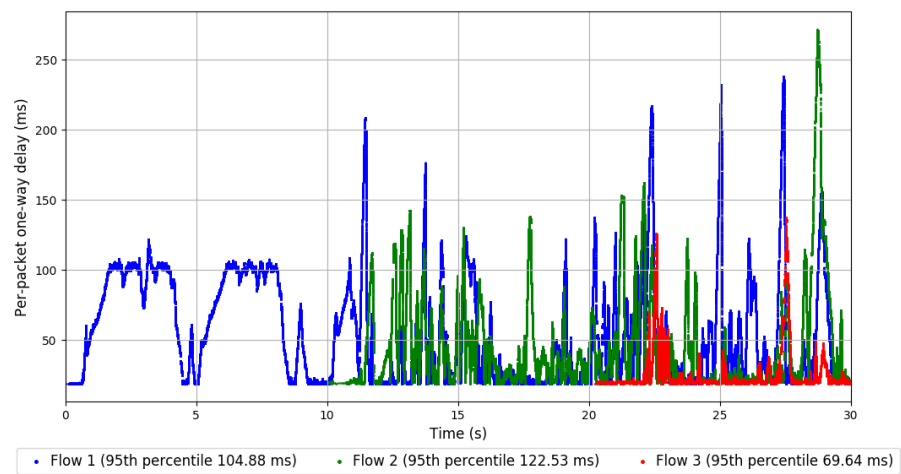
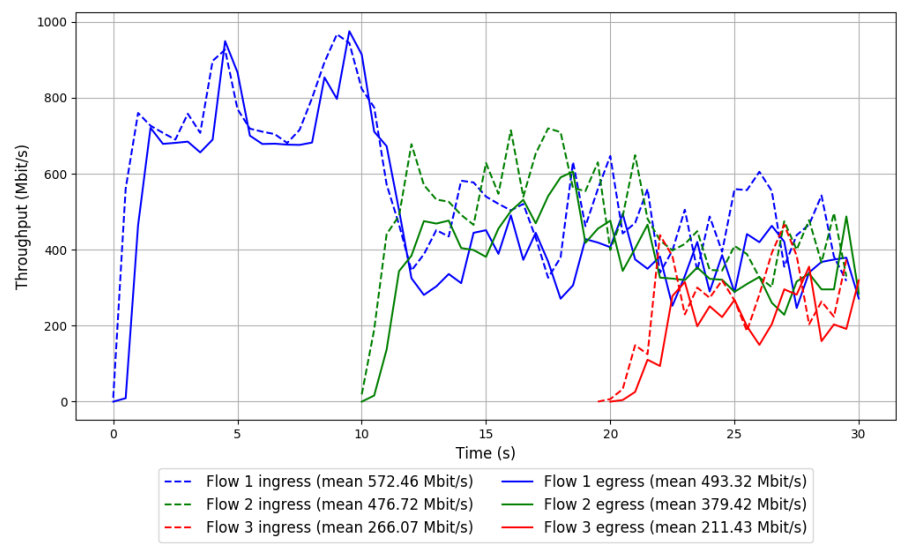


Run 3: Statistics of FillP

Start at: 2018-07-24 15:16:44
End at: 2018-07-24 15:17:14
Local clock offset: 3.472 ms
Remote clock offset: 1.299 ms

Below is generated by plot.py at 2018-07-24 19:54:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 814.83 Mbit/s
95th percentile per-packet one-way delay: 107.920 ms
Loss rate: 16.71%
-- Flow 1:
Average throughput: 493.32 Mbit/s
95th percentile per-packet one-way delay: 104.879 ms
Loss rate: 13.82%
-- Flow 2:
Average throughput: 379.42 Mbit/s
95th percentile per-packet one-way delay: 122.526 ms
Loss rate: 20.40%
-- Flow 3:
Average throughput: 211.43 Mbit/s
95th percentile per-packet one-way delay: 69.635 ms
Loss rate: 22.13%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-24 15:44:09

End at: 2018-07-24 15:44:39

Local clock offset: 3.644 ms

Remote clock offset: 1.79 ms

Below is generated by plot.py at 2018-07-24 19:54:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 771.54 Mbit/s

95th percentile per-packet one-way delay: 107.555 ms

Loss rate: 14.65%

-- Flow 1:

Average throughput: 440.32 Mbit/s

95th percentile per-packet one-way delay: 106.253 ms

Loss rate: 12.82%

-- Flow 2:

Average throughput: 434.31 Mbit/s

95th percentile per-packet one-way delay: 107.855 ms

Loss rate: 15.62%

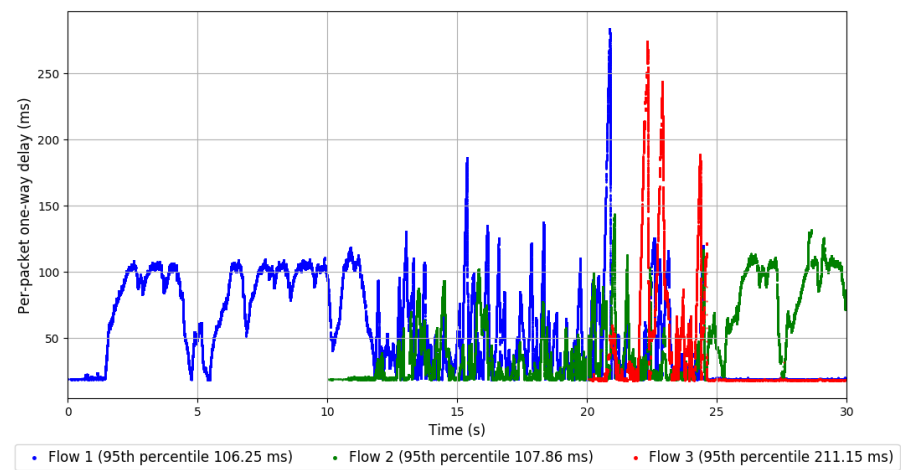
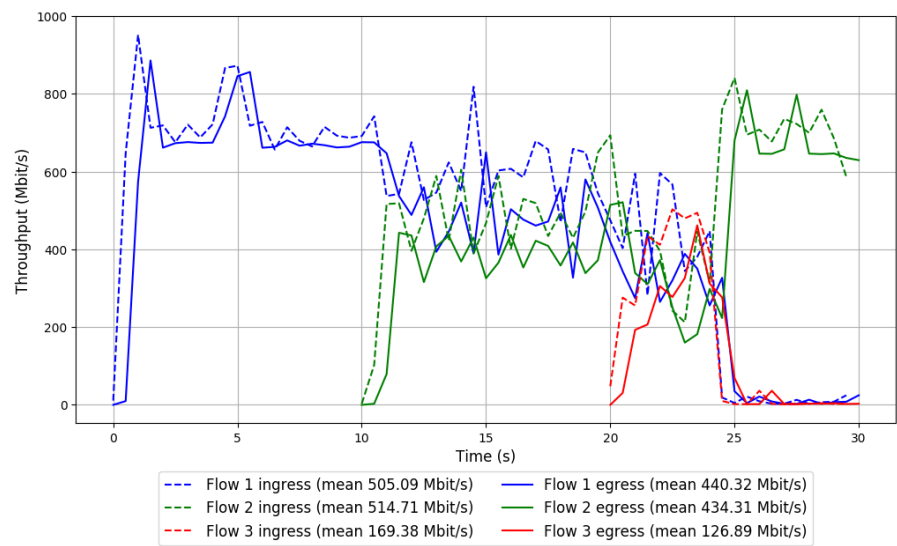
-- Flow 3:

Average throughput: 126.89 Mbit/s

95th percentile per-packet one-way delay: 211.152 ms

Loss rate: 25.09%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-24 16:11:31

End at: 2018-07-24 16:12:01

Local clock offset: 3.559 ms

Remote clock offset: 2.397 ms

Below is generated by plot.py at 2018-07-24 19:55:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 804.99 Mbit/s

95th percentile per-packet one-way delay: 103.265 ms

Loss rate: 13.31%

-- Flow 1:

Average throughput: 531.83 Mbit/s

95th percentile per-packet one-way delay: 104.191 ms

Loss rate: 10.94%

-- Flow 2:

Average throughput: 249.98 Mbit/s

95th percentile per-packet one-way delay: 30.763 ms

Loss rate: 15.26%

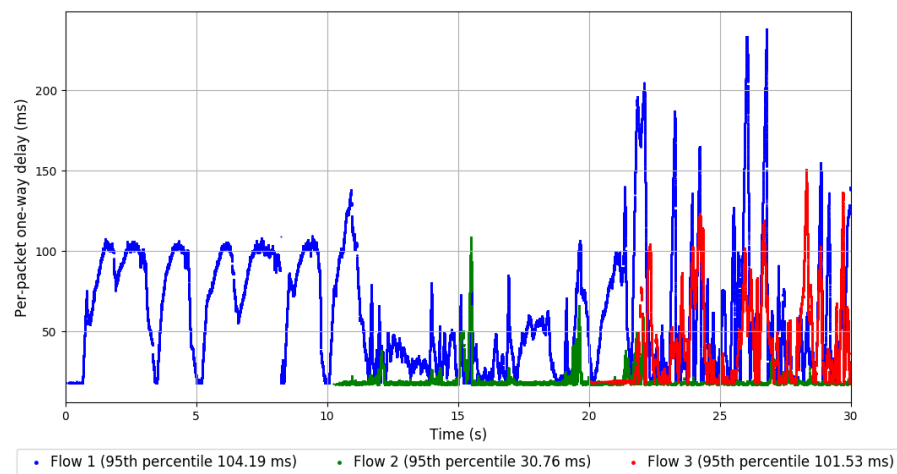
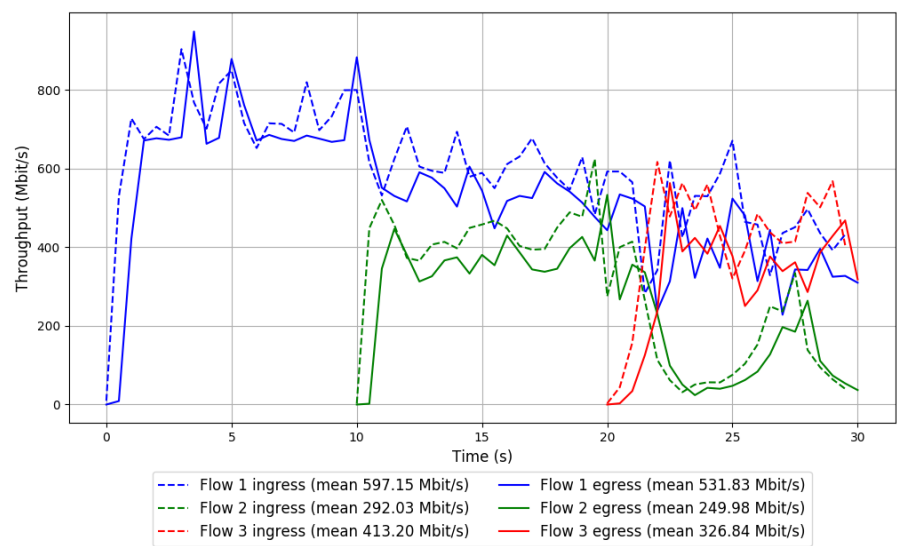
-- Flow 3:

Average throughput: 326.84 Mbit/s

95th percentile per-packet one-way delay: 101.534 ms

Loss rate: 20.90%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-24 16:38:37

End at: 2018-07-24 16:39:07

Local clock offset: 3.525 ms

Remote clock offset: 2.919 ms

Below is generated by plot.py at 2018-07-24 19:55:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 727.67 Mbit/s

95th percentile per-packet one-way delay: 107.935 ms

Loss rate: 14.39%

-- Flow 1:

Average throughput: 502.96 Mbit/s

95th percentile per-packet one-way delay: 107.131 ms

Loss rate: 10.98%

-- Flow 2:

Average throughput: 281.01 Mbit/s

95th percentile per-packet one-way delay: 112.154 ms

Loss rate: 19.42%

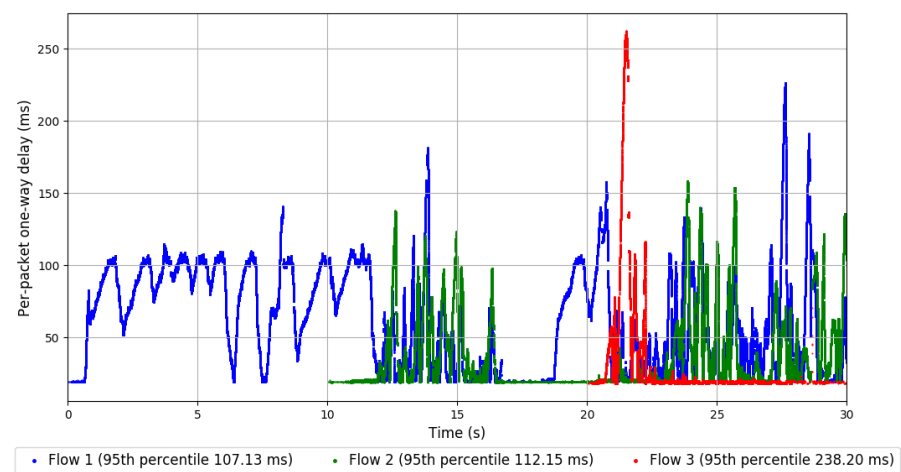
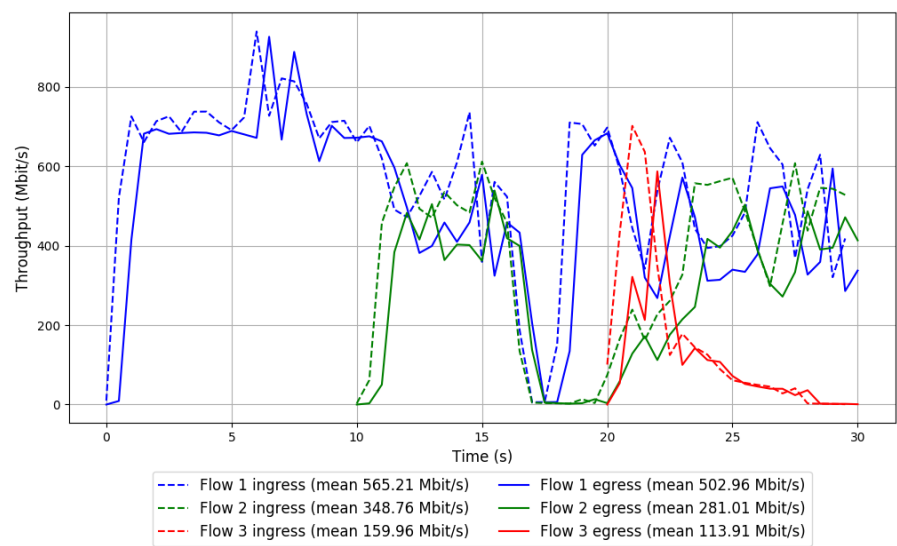
-- Flow 3:

Average throughput: 113.91 Mbit/s

95th percentile per-packet one-way delay: 238.202 ms

Loss rate: 28.78%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-24 17:05:53

End at: 2018-07-24 17:06:23

Local clock offset: 3.665 ms

Remote clock offset: 2.737 ms

Below is generated by plot.py at 2018-07-24 19:56:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 772.15 Mbit/s

95th percentile per-packet one-way delay: 116.835 ms

Loss rate: 16.71%

-- Flow 1:

Average throughput: 374.77 Mbit/s

95th percentile per-packet one-way delay: 104.091 ms

Loss rate: 12.24%

-- Flow 2:

Average throughput: 375.59 Mbit/s

95th percentile per-packet one-way delay: 109.144 ms

Loss rate: 18.60%

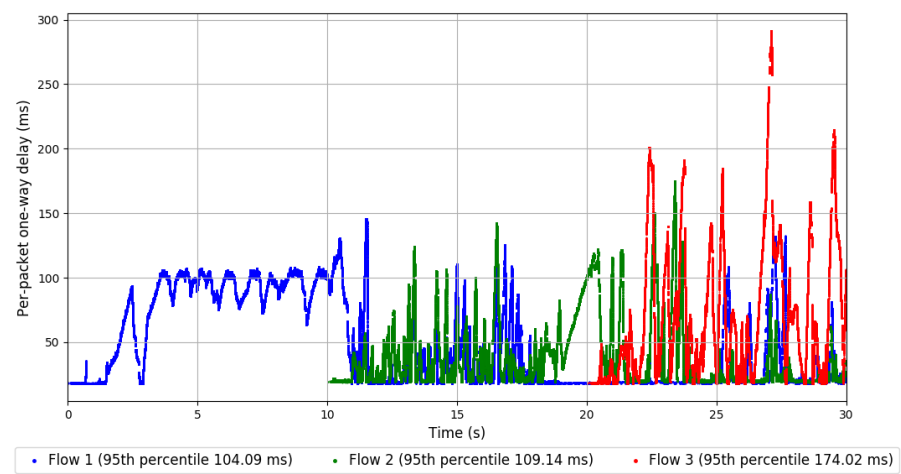
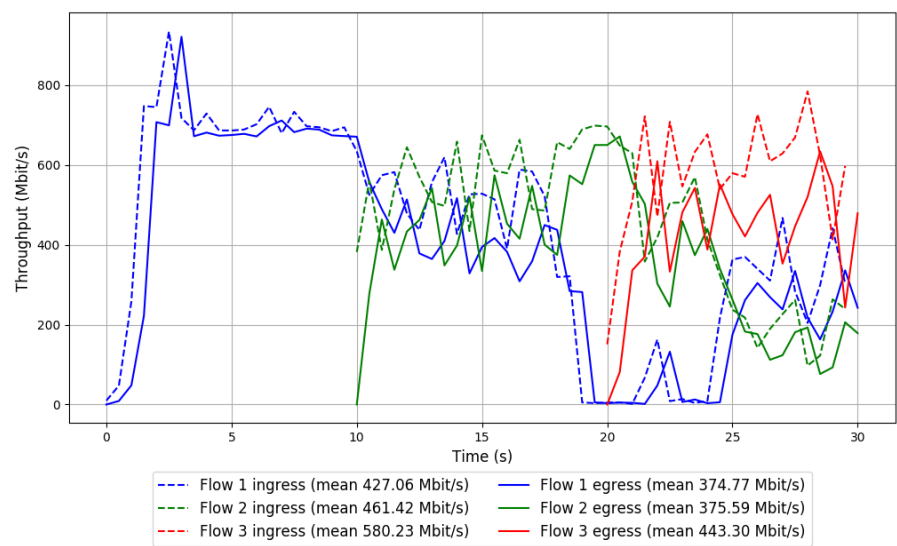
-- Flow 3:

Average throughput: 443.30 Mbit/s

95th percentile per-packet one-way delay: 174.019 ms

Loss rate: 23.59%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-24 17:33:23

End at: 2018-07-24 17:33:53

Local clock offset: 3.341 ms

Remote clock offset: 2.672 ms

Below is generated by plot.py at 2018-07-24 19:56:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 781.91 Mbit/s

95th percentile per-packet one-way delay: 106.740 ms

Loss rate: 15.64%

-- Flow 1:

Average throughput: 511.97 Mbit/s

95th percentile per-packet one-way delay: 107.218 ms

Loss rate: 13.50%

-- Flow 2:

Average throughput: 385.65 Mbit/s

95th percentile per-packet one-way delay: 99.624 ms

Loss rate: 19.47%

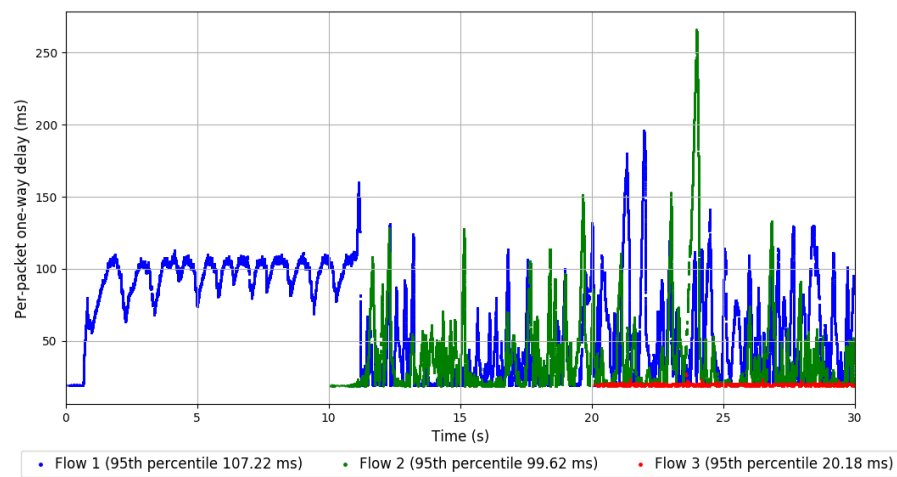
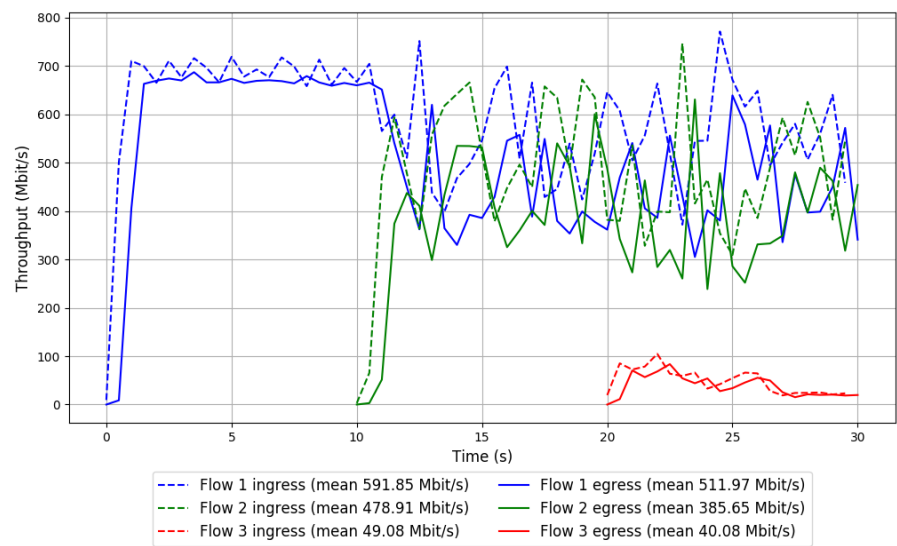
-- Flow 3:

Average throughput: 40.08 Mbit/s

95th percentile per-packet one-way delay: 20.182 ms

Loss rate: 18.33%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-24 18:00:39

End at: 2018-07-24 18:01:09

Local clock offset: 3.235 ms

Remote clock offset: 2.265 ms

Below is generated by plot.py at 2018-07-24 19:59:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 611.32 Mbit/s

95th percentile per-packet one-way delay: 105.234 ms

Loss rate: 30.49%

-- Flow 1:

Average throughput: 427.16 Mbit/s

95th percentile per-packet one-way delay: 106.165 ms

Loss rate: 33.36%

-- Flow 2:

Average throughput: 246.00 Mbit/s

95th percentile per-packet one-way delay: 83.163 ms

Loss rate: 21.97%

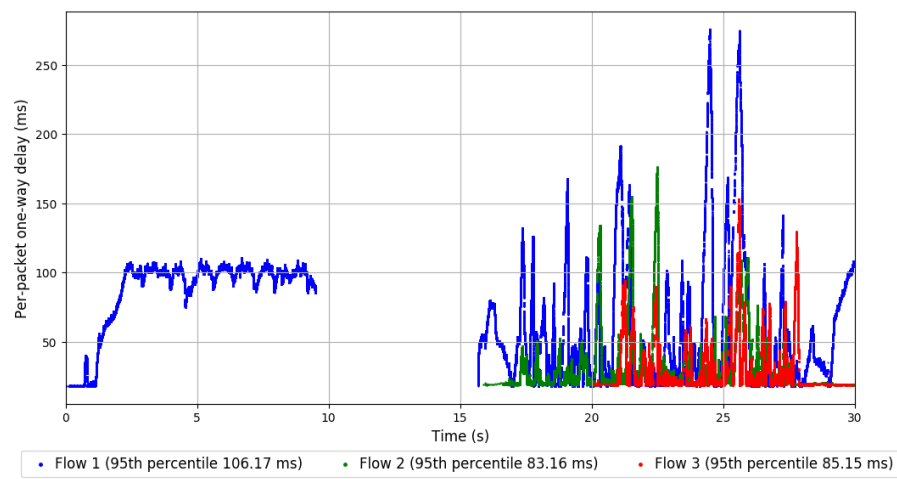
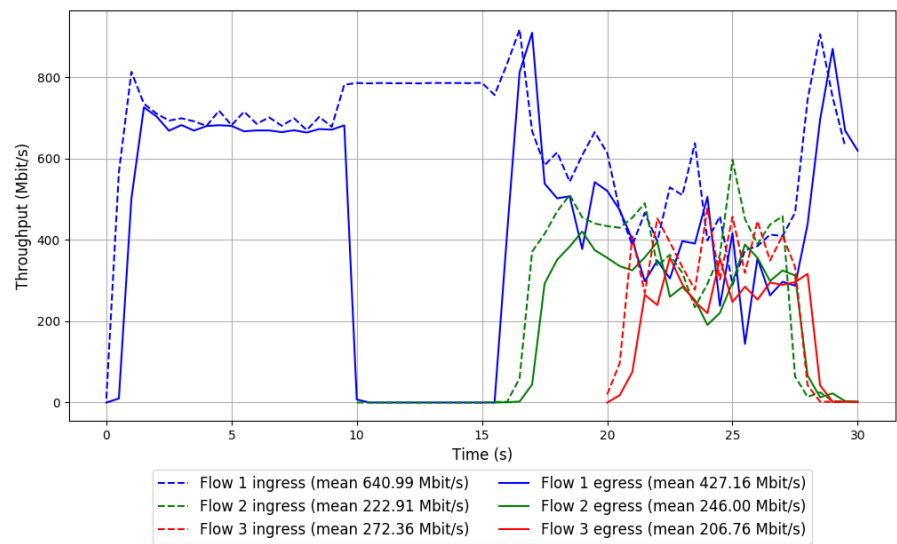
-- Flow 3:

Average throughput: 206.76 Mbit/s

95th percentile per-packet one-way delay: 85.153 ms

Loss rate: 24.09%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-24 18:27:40

End at: 2018-07-24 18:28:10

Local clock offset: 3.741 ms

Remote clock offset: 2.012 ms

Below is generated by plot.py at 2018-07-24 20:05:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 782.87 Mbit/s

95th percentile per-packet one-way delay: 114.372 ms

Loss rate: 15.01%

-- Flow 1:

Average throughput: 496.32 Mbit/s

95th percentile per-packet one-way delay: 107.559 ms

Loss rate: 14.01%

-- Flow 2:

Average throughput: 396.49 Mbit/s

95th percentile per-packet one-way delay: 134.447 ms

Loss rate: 16.46%

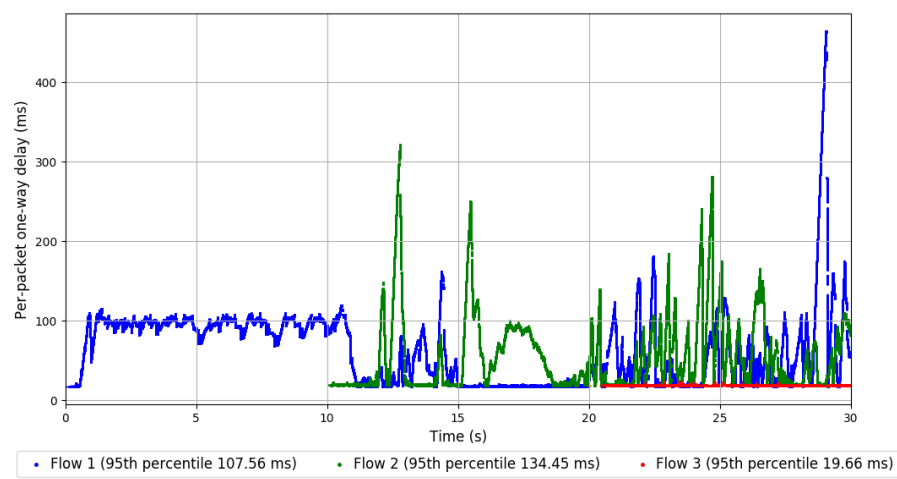
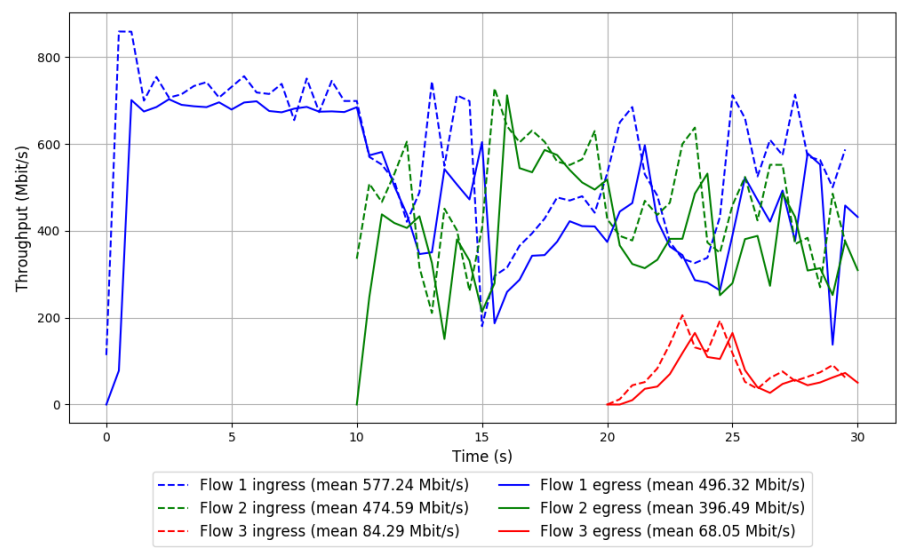
-- Flow 3:

Average throughput: 68.05 Mbit/s

95th percentile per-packet one-way delay: 19.662 ms

Loss rate: 19.27%

Run 10: Report of FillP — Data Link

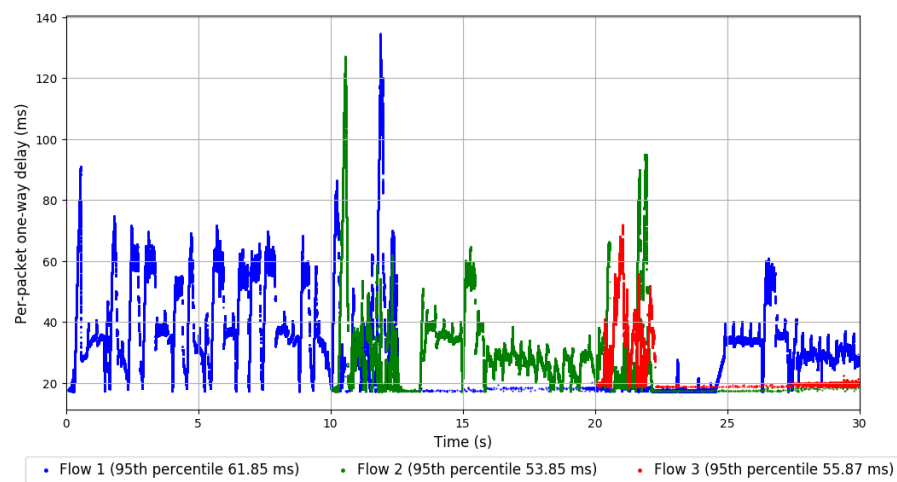
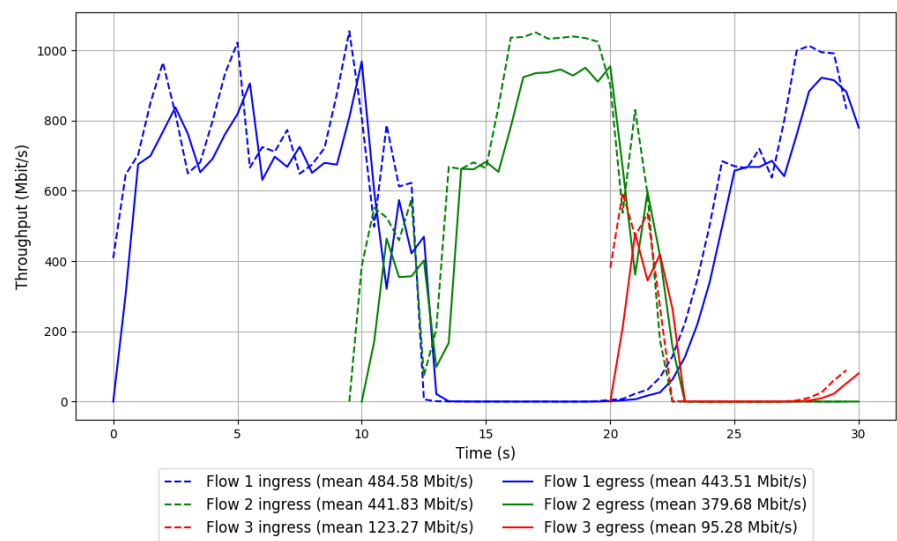


Run 1: Statistics of FillP-Sheep

Start at: 2018-07-24 14:24:04
End at: 2018-07-24 14:24:34
Local clock offset: 3.522 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2018-07-24 20:05:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 727.96 Mbit/s
95th percentile per-packet one-way delay: 60.579 ms
Loss rate: 11.19%
-- Flow 1:
Average throughput: 443.51 Mbit/s
95th percentile per-packet one-way delay: 61.852 ms
Loss rate: 8.47%
-- Flow 2:
Average throughput: 379.68 Mbit/s
95th percentile per-packet one-way delay: 53.851 ms
Loss rate: 14.07%
-- Flow 3:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 55.870 ms
Loss rate: 22.70%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-24 14:51:09

End at: 2018-07-24 14:51:39

Local clock offset: 3.838 ms

Remote clock offset: 0.639 ms

Below is generated by plot.py at 2018-07-24 20:06:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 846.79 Mbit/s

95th percentile per-packet one-way delay: 63.781 ms

Loss rate: 14.63%

-- Flow 1:

Average throughput: 353.15 Mbit/s

95th percentile per-packet one-way delay: 59.891 ms

Loss rate: 13.90%

-- Flow 2:

Average throughput: 689.75 Mbit/s

95th percentile per-packet one-way delay: 66.524 ms

Loss rate: 13.85%

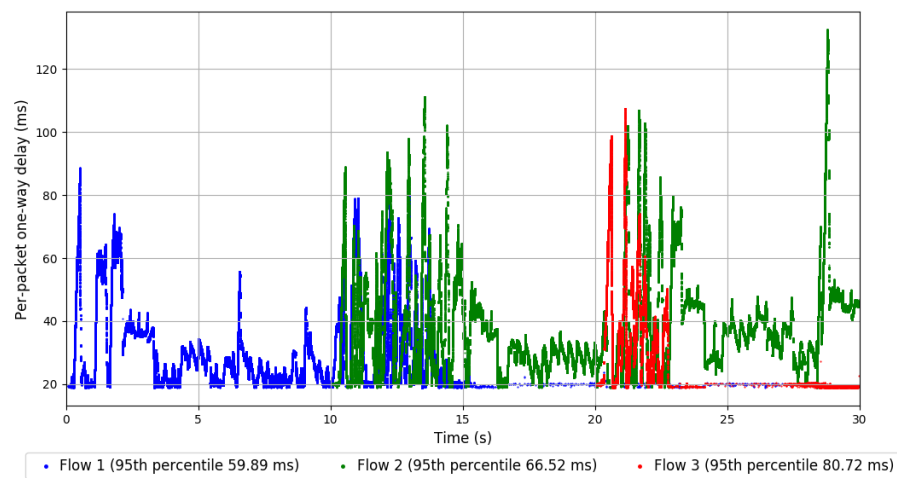
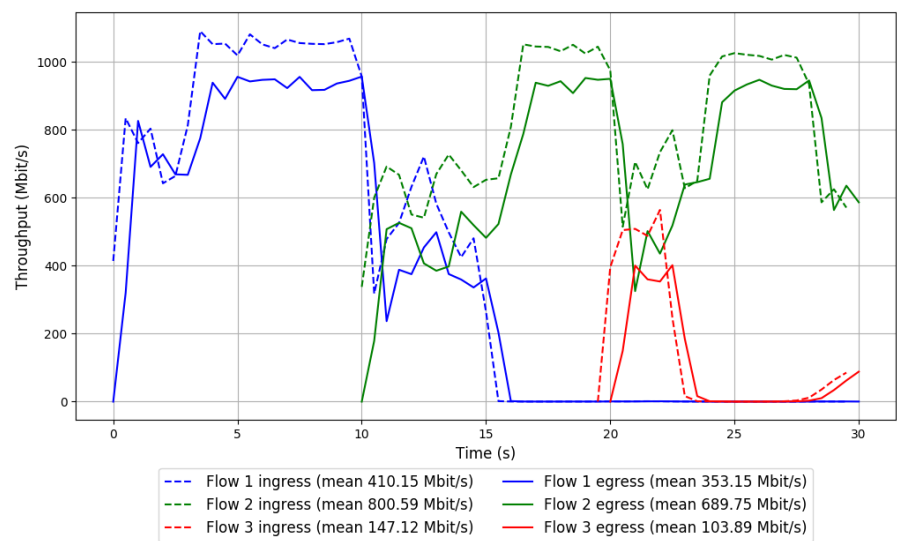
-- Flow 3:

Average throughput: 103.89 Mbit/s

95th percentile per-packet one-way delay: 80.715 ms

Loss rate: 29.37%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-24 15:18:32

End at: 2018-07-24 15:19:02

Local clock offset: 3.361 ms

Remote clock offset: 1.405 ms

Below is generated by plot.py at 2018-07-24 20:06:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 672.40 Mbit/s

95th percentile per-packet one-way delay: 61.856 ms

Loss rate: 12.34%

-- Flow 1:

Average throughput: 370.52 Mbit/s

95th percentile per-packet one-way delay: 61.789 ms

Loss rate: 14.33%

-- Flow 2:

Average throughput: 123.97 Mbit/s

95th percentile per-packet one-way delay: 83.664 ms

Loss rate: 27.79%

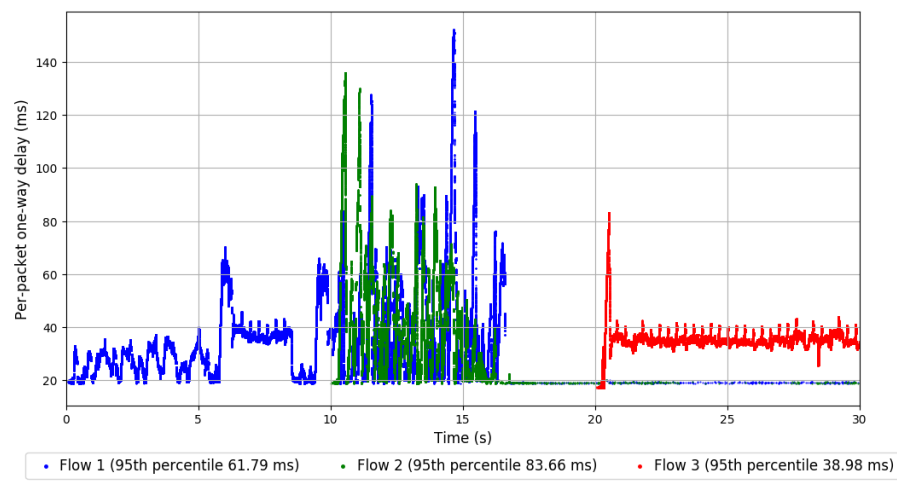
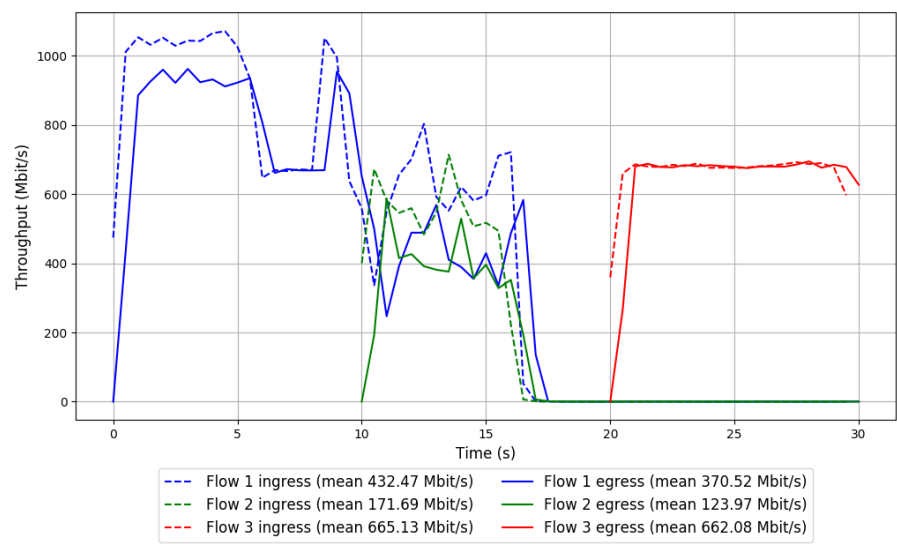
-- Flow 3:

Average throughput: 662.08 Mbit/s

95th percentile per-packet one-way delay: 38.978 ms

Loss rate: 0.44%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-24 15:45:54

End at: 2018-07-24 15:46:24

Local clock offset: 3.551 ms

Remote clock offset: 1.925 ms

Below is generated by plot.py at 2018-07-24 20:06:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 718.82 Mbit/s

95th percentile per-packet one-way delay: 68.528 ms

Loss rate: 17.21%

-- Flow 1:

Average throughput: 413.52 Mbit/s

95th percentile per-packet one-way delay: 62.630 ms

Loss rate: 12.90%

-- Flow 2:

Average throughput: 387.50 Mbit/s

95th percentile per-packet one-way delay: 89.381 ms

Loss rate: 20.05%

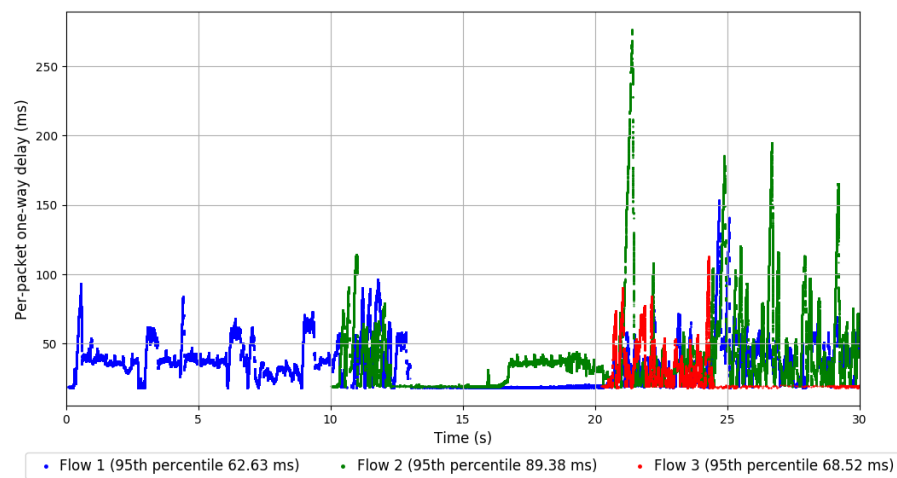
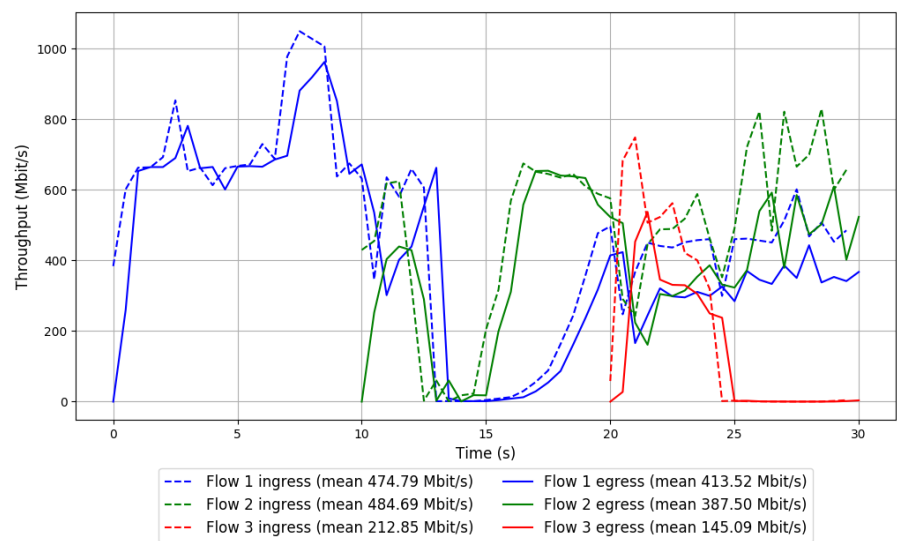
-- Flow 3:

Average throughput: 145.09 Mbit/s

95th percentile per-packet one-way delay: 68.524 ms

Loss rate: 33.22%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-24 16:13:17

End at: 2018-07-24 16:13:47

Local clock offset: 3.453 ms

Remote clock offset: 2.5 ms

Below is generated by plot.py at 2018-07-24 20:07:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 733.49 Mbit/s

95th percentile per-packet one-way delay: 81.908 ms

Loss rate: 13.45%

-- Flow 1:

Average throughput: 430.97 Mbit/s

95th percentile per-packet one-way delay: 89.728 ms

Loss rate: 13.14%

-- Flow 2:

Average throughput: 173.99 Mbit/s

95th percentile per-packet one-way delay: 78.094 ms

Loss rate: 26.33%

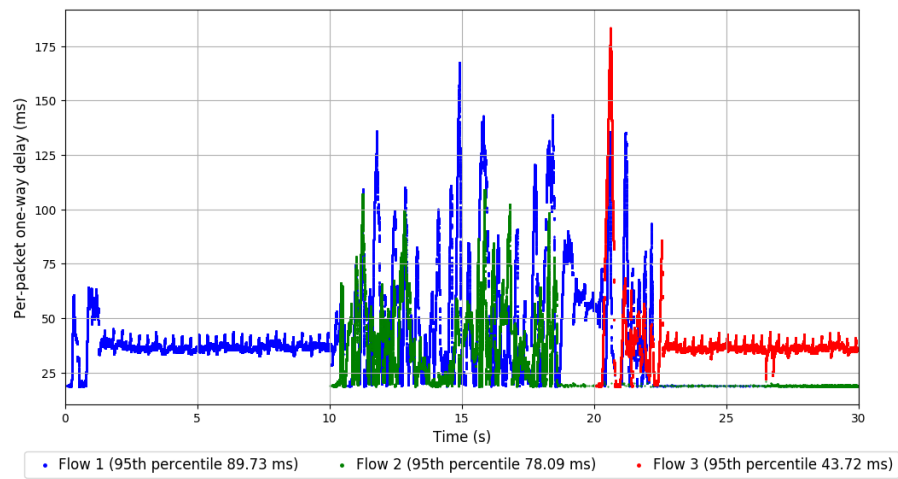
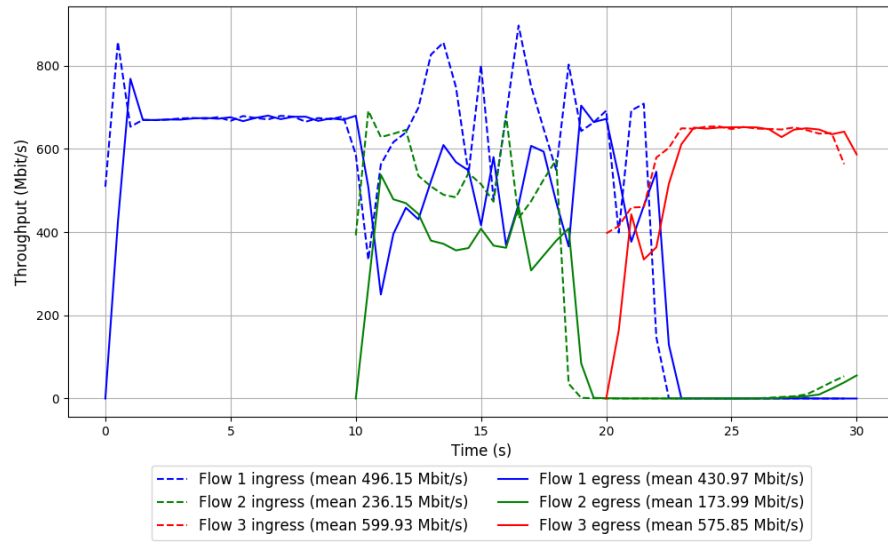
-- Flow 3:

Average throughput: 575.85 Mbit/s

95th percentile per-packet one-way delay: 43.720 ms

Loss rate: 4.01%

Run 5: Report of FillP-Sheep — Data Link

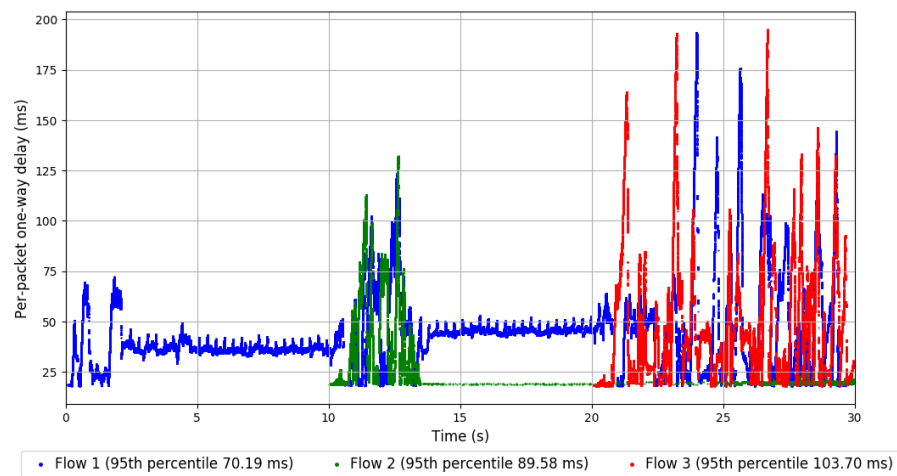
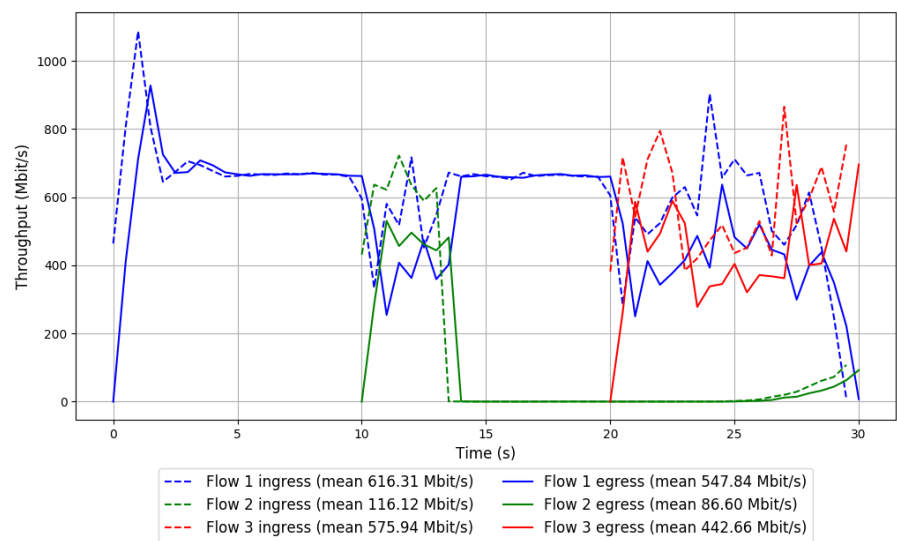


Run 6: Statistics of FillP-Sheep

Start at: 2018-07-24 16:40:21
End at: 2018-07-24 16:40:51
Local clock offset: 3.424 ms
Remote clock offset: 2.921 ms

```
# Below is generated by plot.py at 2018-07-24 20:07:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 751.93 Mbit/s
95th percentile per-packet one-way delay: 82.169 ms
Loss rate: 14.96%
-- Flow 1:
Average throughput: 547.84 Mbit/s
95th percentile per-packet one-way delay: 70.189 ms
Loss rate: 11.11%
-- Flow 2:
Average throughput: 86.60 Mbit/s
95th percentile per-packet one-way delay: 89.583 ms
Loss rate: 25.41%
-- Flow 3:
Average throughput: 442.66 Mbit/s
95th percentile per-packet one-way delay: 103.700 ms
Loss rate: 23.14%
```

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-24 17:07:39

End at: 2018-07-24 17:08:09

Local clock offset: 3.642 ms

Remote clock offset: 2.722 ms

Below is generated by plot.py at 2018-07-24 20:12:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 771.64 Mbit/s

95th percentile per-packet one-way delay: 76.228 ms

Loss rate: 18.95%

-- Flow 1:

Average throughput: 505.32 Mbit/s

95th percentile per-packet one-way delay: 74.806 ms

Loss rate: 16.89%

-- Flow 2:

Average throughput: 342.19 Mbit/s

95th percentile per-packet one-way delay: 76.120 ms

Loss rate: 21.44%

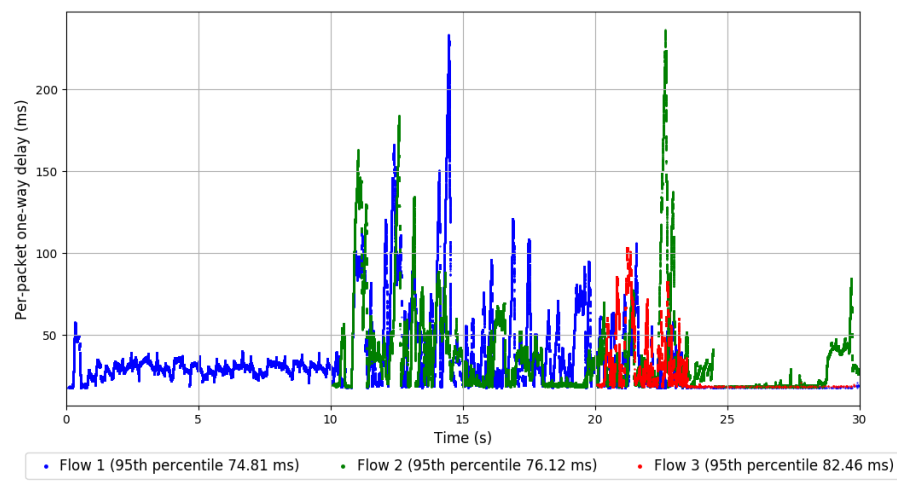
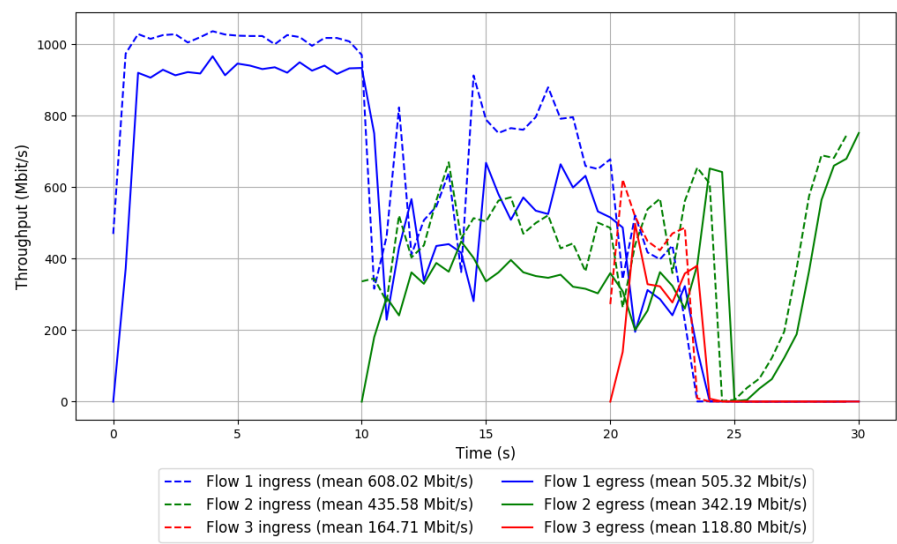
-- Flow 3:

Average throughput: 118.80 Mbit/s

95th percentile per-packet one-way delay: 82.462 ms

Loss rate: 28.82%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-24 17:35:09

End at: 2018-07-24 17:35:39

Local clock offset: 3.353 ms

Remote clock offset: 2.626 ms

Below is generated by plot.py at 2018-07-24 20:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 845.52 Mbit/s

95th percentile per-packet one-way delay: 77.117 ms

Loss rate: 23.05%

-- Flow 1:

Average throughput: 542.03 Mbit/s

95th percentile per-packet one-way delay: 64.620 ms

Loss rate: 19.42%

-- Flow 2:

Average throughput: 412.60 Mbit/s

95th percentile per-packet one-way delay: 98.583 ms

Loss rate: 28.68%

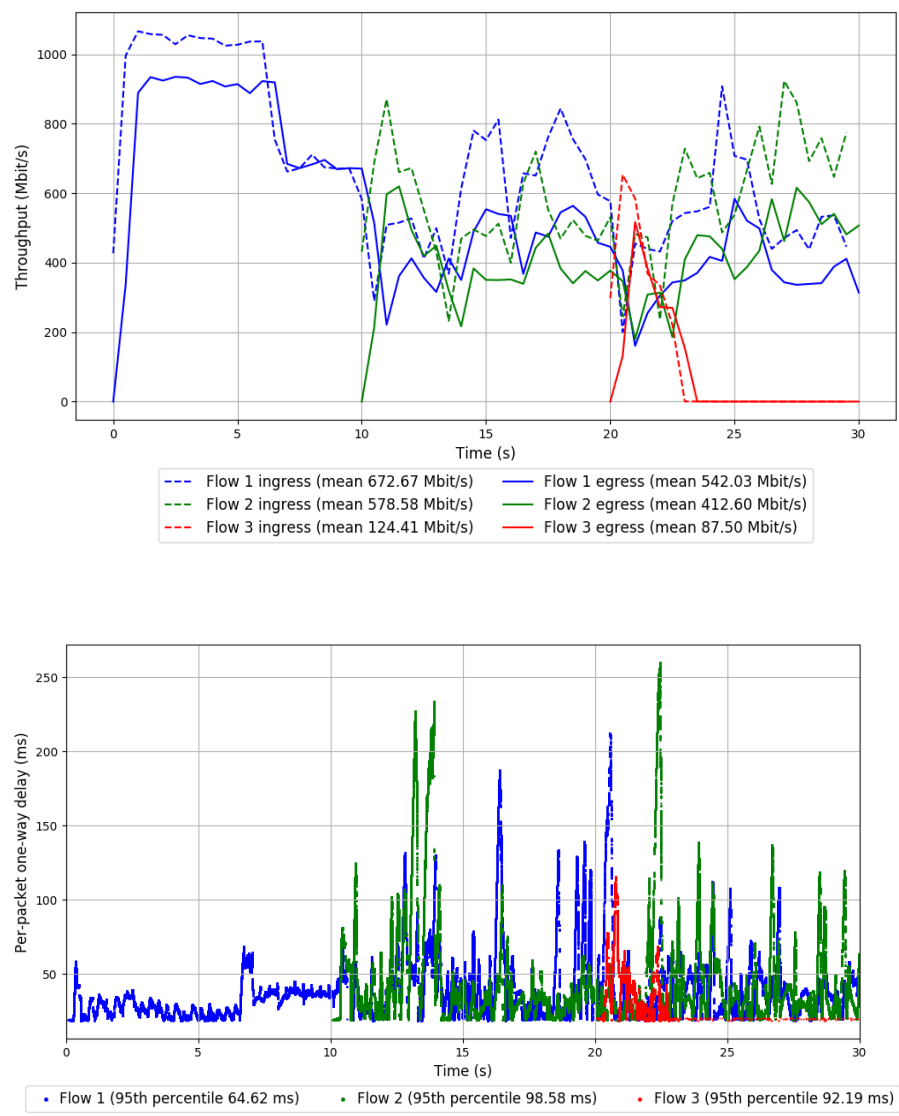
-- Flow 3:

Average throughput: 87.50 Mbit/s

95th percentile per-packet one-way delay: 92.193 ms

Loss rate: 29.67%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-24 18:02:22

End at: 2018-07-24 18:02:52

Local clock offset: 3.237 ms

Remote clock offset: 2.186 ms

Below is generated by plot.py at 2018-07-24 20:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 706.71 Mbit/s

95th percentile per-packet one-way delay: 52.973 ms

Loss rate: 14.95%

-- Flow 1:

Average throughput: 559.56 Mbit/s

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

Loss rate: 11.24%

-- Flow 2:

Average throughput: 152.86 Mbit/s

95th percentile per-packet one-way delay: 62.636 ms

Loss rate: 25.00%

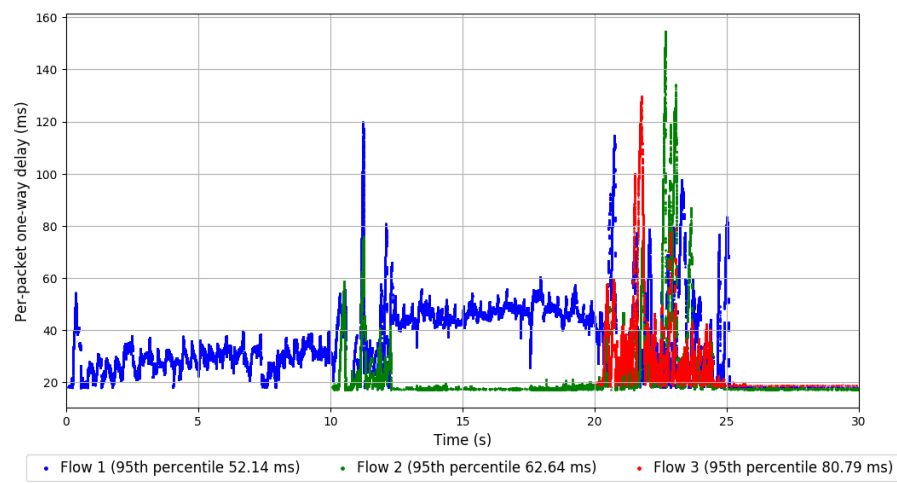
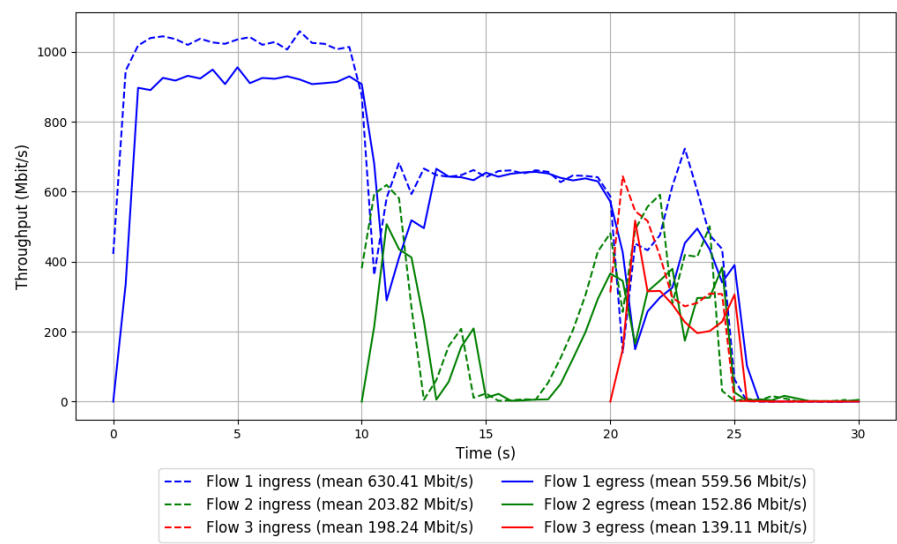
-- Flow 3:

Average throughput: 139.11 Mbit/s

95th percentile per-packet one-way delay: 80.792 ms

Loss rate: 29.83%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-24 18:29:25

End at: 2018-07-24 18:29:55

Local clock offset: 3.785 ms

Remote clock offset: 1.982 ms

Below is generated by plot.py at 2018-07-24 20:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 779.32 Mbit/s

95th percentile per-packet one-way delay: 63.393 ms

Loss rate: 15.32%

-- Flow 1:

Average throughput: 416.80 Mbit/s

95th percentile per-packet one-way delay: 63.568 ms

Loss rate: 16.22%

-- Flow 2:

Average throughput: 227.98 Mbit/s

95th percentile per-packet one-way delay: 74.308 ms

Loss rate: 25.14%

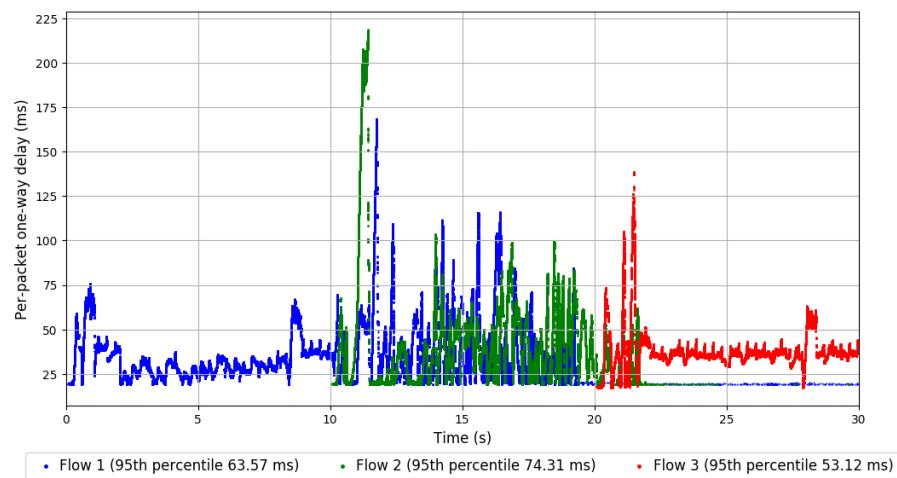
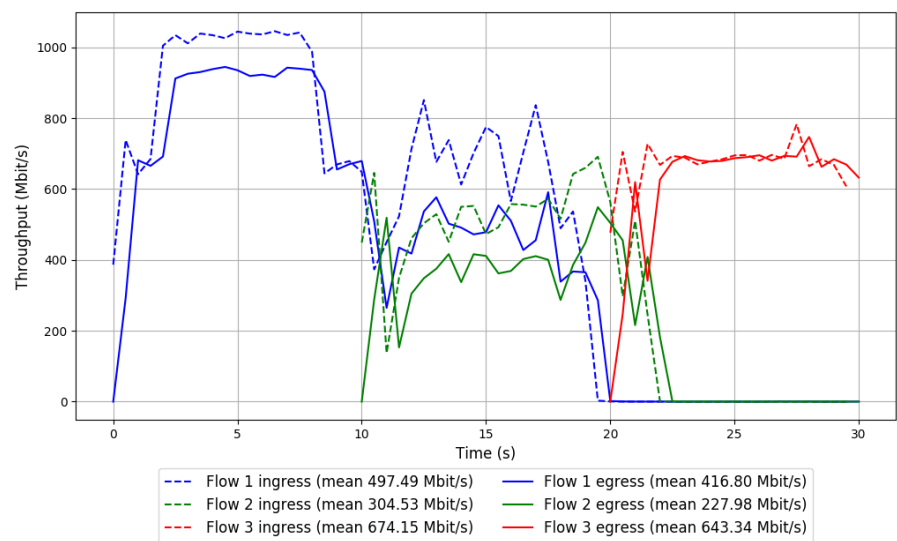
-- Flow 3:

Average throughput: 643.34 Mbit/s

95th percentile per-packet one-way delay: 53.123 ms

Loss rate: 4.57%

Run 10: Report of FillP-Sheep — Data Link

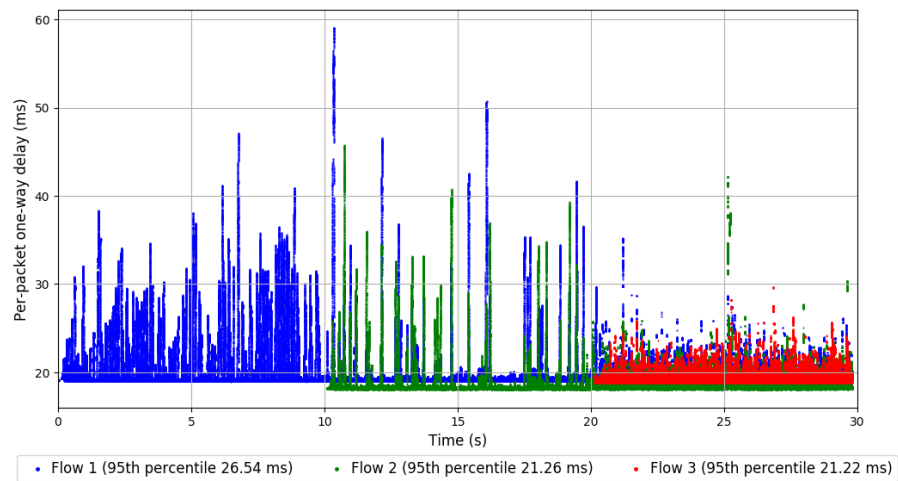
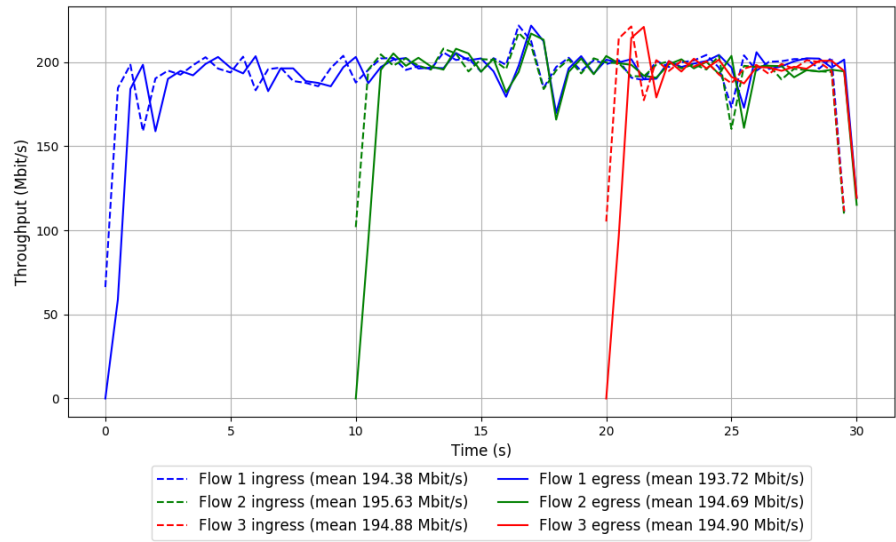


```
Run 1: Statistics of Indigo

Start at: 2018-07-24 14:40:06
End at: 2018-07-24 14:40:36
Local clock offset: 3.695 ms
Remote clock offset: 0.413 ms

# Below is generated by plot.py at 2018-07-24 20:17:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 386.03 Mbit/s
95th percentile per-packet one-way delay: 23.821 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 193.72 Mbit/s
95th percentile per-packet one-way delay: 26.537 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 194.69 Mbit/s
95th percentile per-packet one-way delay: 21.264 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 194.90 Mbit/s
95th percentile per-packet one-way delay: 21.220 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-24 15:07:18

End at: 2018-07-24 15:07:48

Local clock offset: 3.757 ms

Remote clock offset: 1.139 ms

Below is generated by plot.py at 2018-07-24 20:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.44 Mbit/s

95th percentile per-packet one-way delay: 20.642 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 198.06 Mbit/s

95th percentile per-packet one-way delay: 21.557 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 199.13 Mbit/s

95th percentile per-packet one-way delay: 19.919 ms

Loss rate: 0.00%

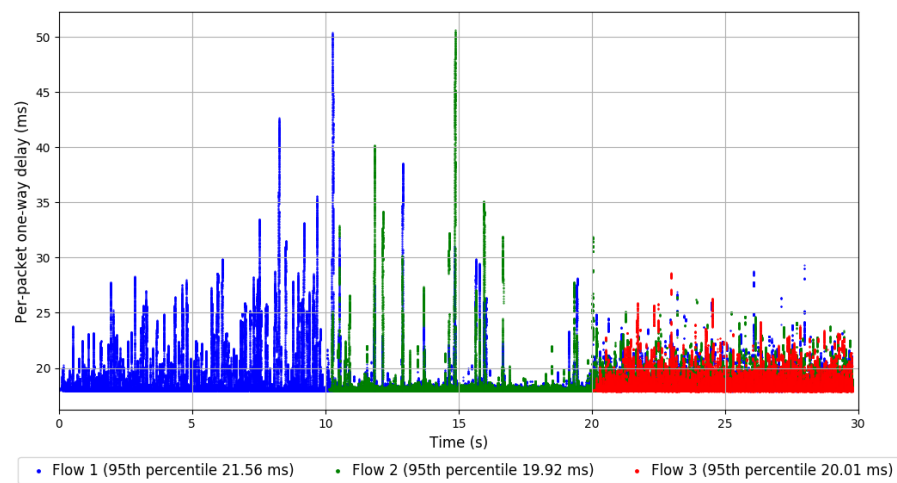
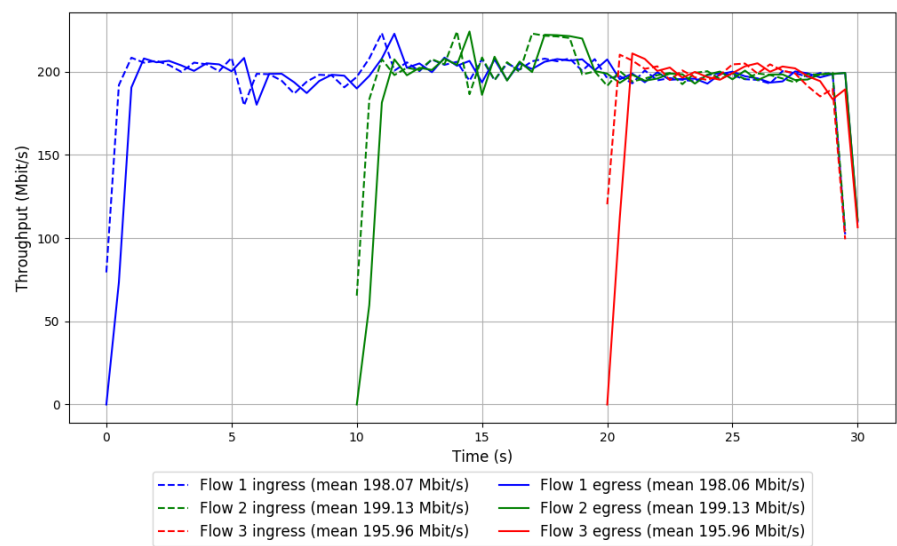
-- Flow 3:

Average throughput: 195.96 Mbit/s

95th percentile per-packet one-way delay: 20.011 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-24 15:34:37

End at: 2018-07-24 15:35:07

Local clock offset: 3.443 ms

Remote clock offset: 1.633 ms

Below is generated by plot.py at 2018-07-24 20:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 397.99 Mbit/s

95th percentile per-packet one-way delay: 20.007 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 202.12 Mbit/s

95th percentile per-packet one-way delay: 19.939 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 201.84 Mbit/s

95th percentile per-packet one-way delay: 19.616 ms

Loss rate: 0.00%

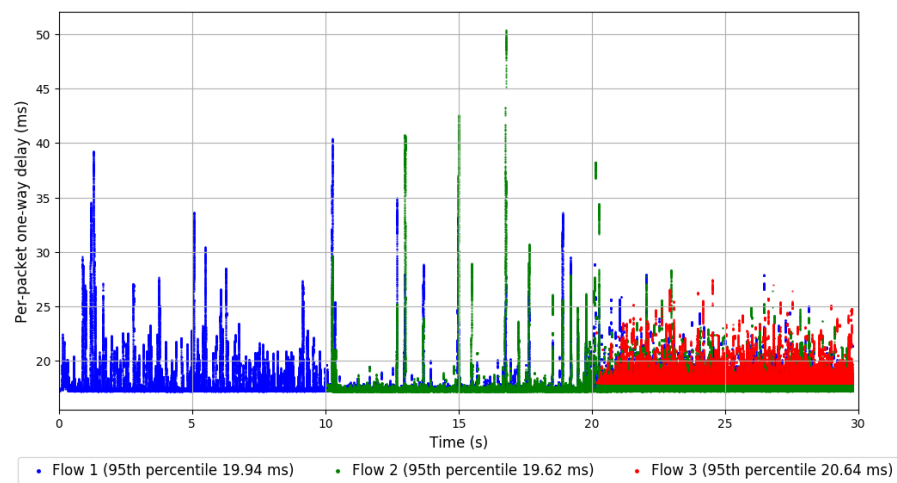
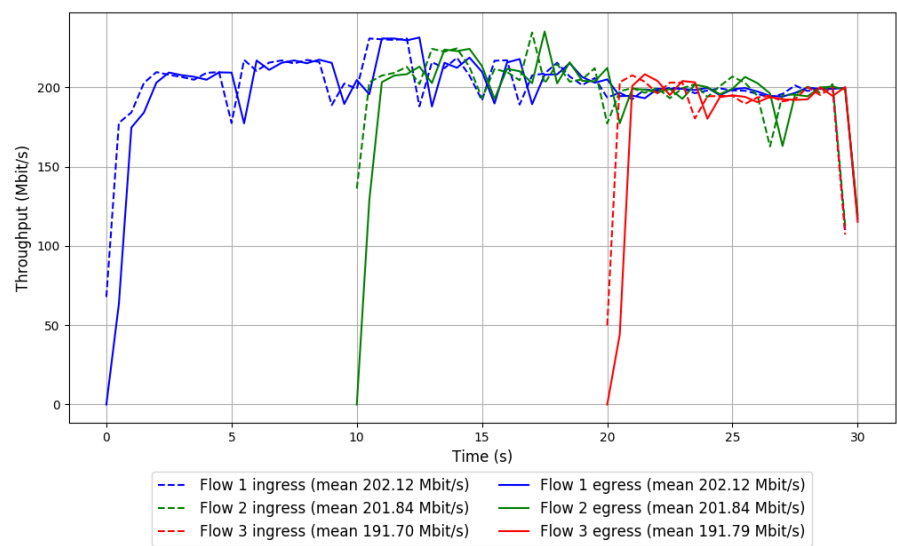
-- Flow 3:

Average throughput: 191.79 Mbit/s

95th percentile per-packet one-way delay: 20.639 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-24 16:02:06

End at: 2018-07-24 16:02:36

Local clock offset: 3.649 ms

Remote clock offset: 2.318 ms

Below is generated by plot.py at 2018-07-24 20:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.84 Mbit/s

95th percentile per-packet one-way delay: 21.096 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 194.08 Mbit/s

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

Loss rate: 0.04%

-- Flow 2:

Average throughput: 199.27 Mbit/s

95th percentile per-packet one-way delay: 19.494 ms

Loss rate: 0.03%

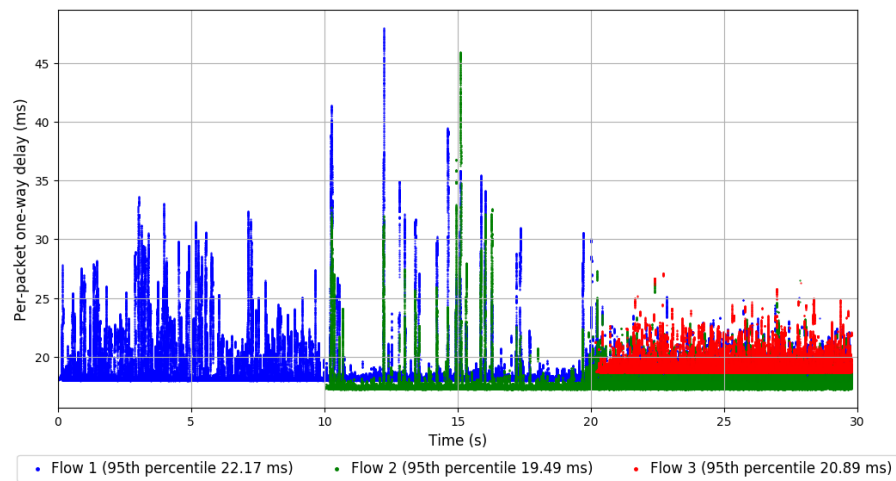
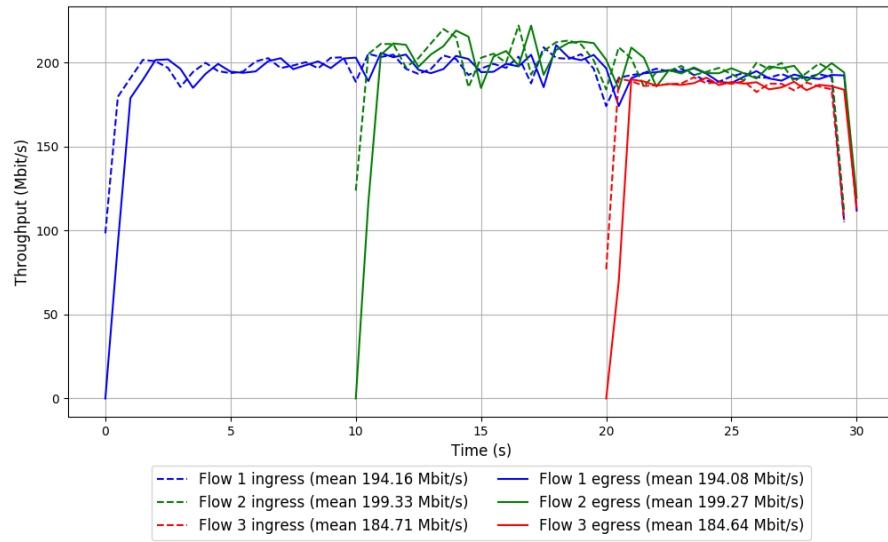
-- Flow 3:

Average throughput: 184.64 Mbit/s

95th percentile per-packet one-way delay: 20.892 ms

Loss rate: 0.06%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-24 16:29:14

End at: 2018-07-24 16:29:44

Local clock offset: 3.484 ms

Remote clock offset: 2.868 ms

Below is generated by plot.py at 2018-07-24 20:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 391.29 Mbit/s

95th percentile per-packet one-way delay: 20.992 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 199.50 Mbit/s

95th percentile per-packet one-way delay: 20.871 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 198.36 Mbit/s

95th percentile per-packet one-way delay: 20.956 ms

Loss rate: 0.21%

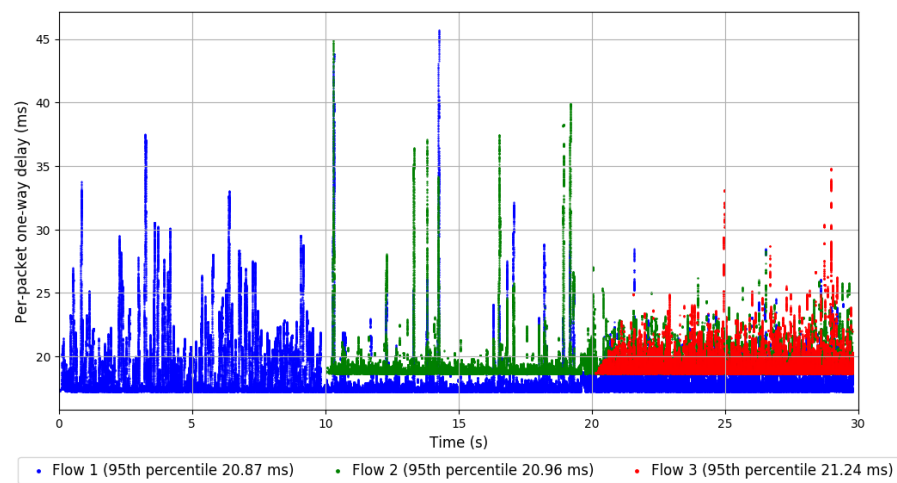
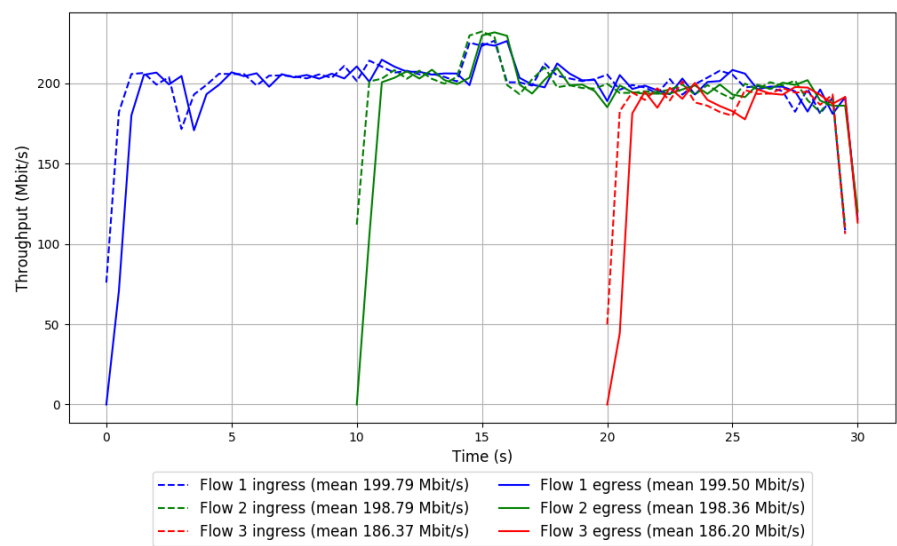
-- Flow 3:

Average throughput: 186.20 Mbit/s

95th percentile per-packet one-way delay: 21.236 ms

Loss rate: 0.09%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-24 16:56:30

End at: 2018-07-24 16:57:00

Local clock offset: 3.503 ms

Remote clock offset: 2.773 ms

Below is generated by plot.py at 2018-07-24 20:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 384.53 Mbit/s

95th percentile per-packet one-way delay: 21.980 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 195.03 Mbit/s

95th percentile per-packet one-way delay: 22.821 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 193.52 Mbit/s

95th percentile per-packet one-way delay: 21.388 ms

Loss rate: 0.02%

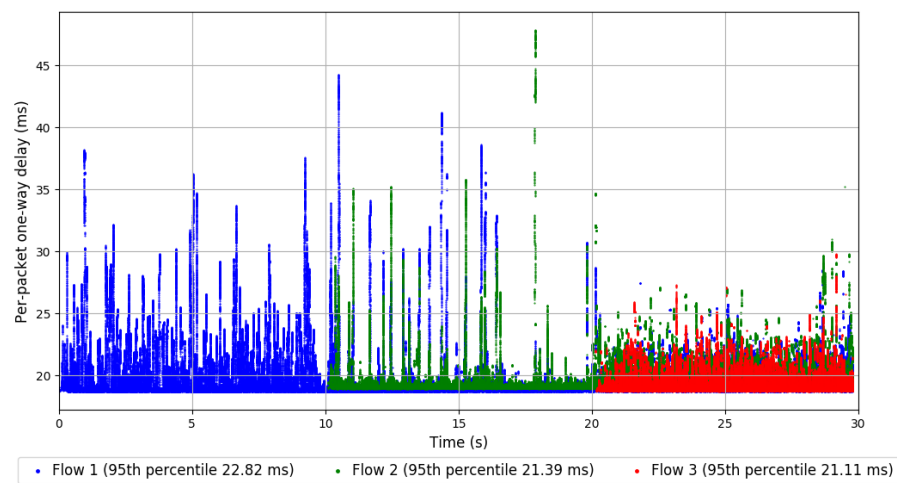
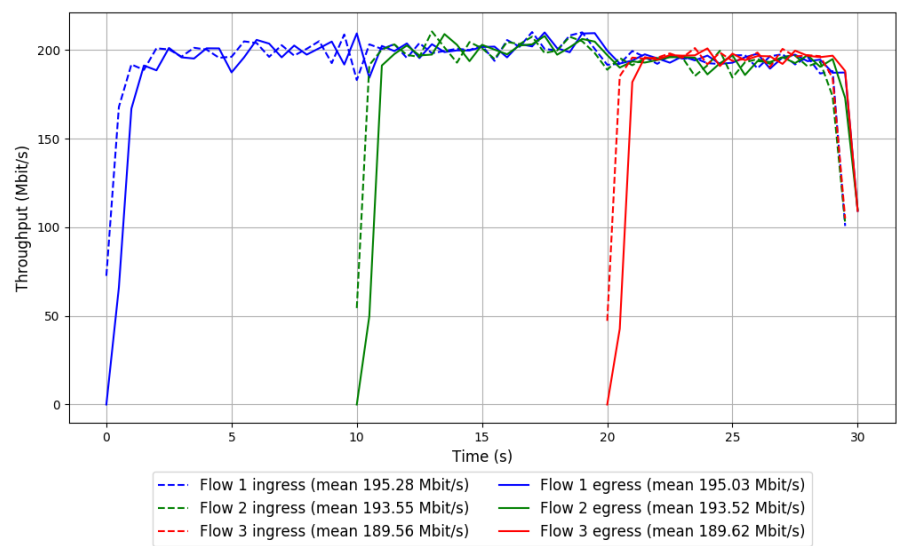
-- Flow 3:

Average throughput: 189.62 Mbit/s

95th percentile per-packet one-way delay: 21.113 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-24 17:23:56

End at: 2018-07-24 17:24:26

Local clock offset: 3.463 ms

Remote clock offset: 2.835 ms

Below is generated by plot.py at 2018-07-24 20:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.71 Mbit/s

95th percentile per-packet one-way delay: 20.737 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 195.86 Mbit/s

95th percentile per-packet one-way delay: 21.808 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 199.42 Mbit/s

95th percentile per-packet one-way delay: 19.700 ms

Loss rate: 0.00%

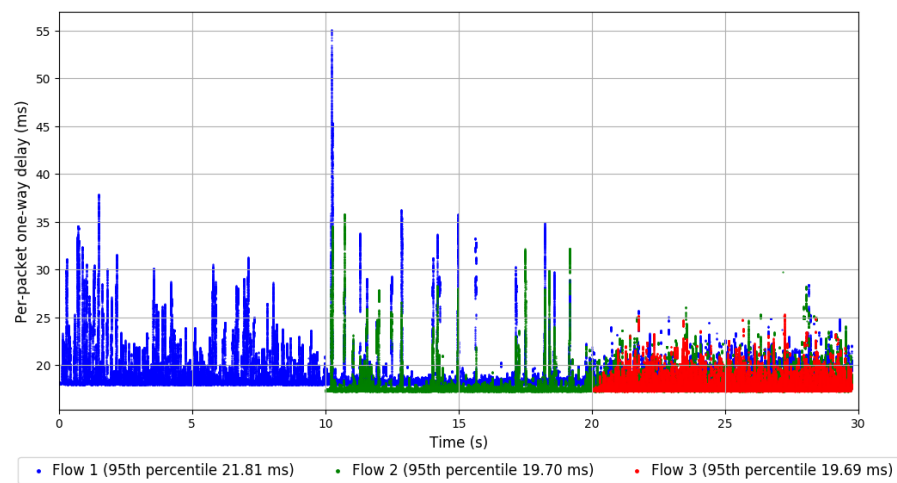
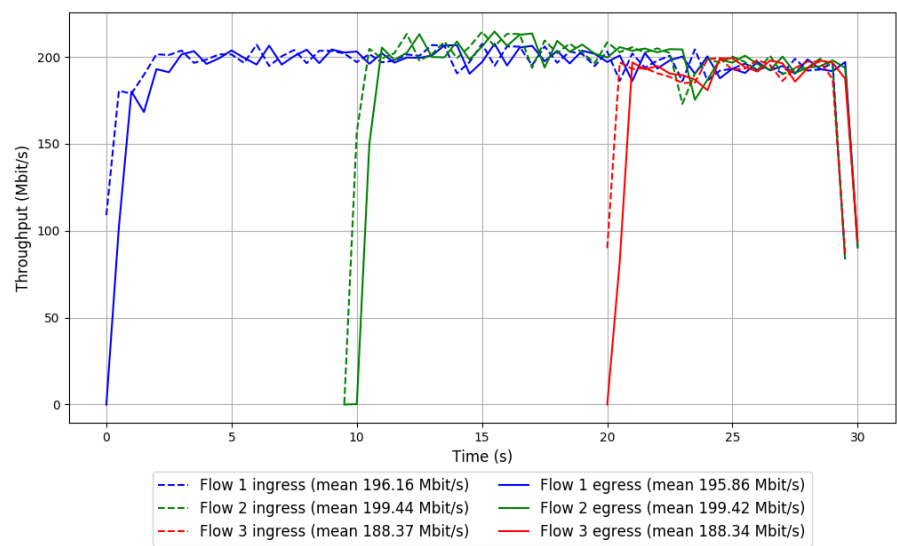
-- Flow 3:

Average throughput: 188.34 Mbit/s

95th percentile per-packet one-way delay: 19.687 ms

Loss rate: 0.01%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-24 17:51:19

End at: 2018-07-24 17:51:49

Local clock offset: 3.211 ms

Remote clock offset: 2.39 ms

Below is generated by plot.py at 2018-07-24 20:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.43 Mbit/s

95th percentile per-packet one-way delay: 21.980 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 195.70 Mbit/s

95th percentile per-packet one-way delay: 22.990 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 196.40 Mbit/s

95th percentile per-packet one-way delay: 21.244 ms

Loss rate: 0.02%

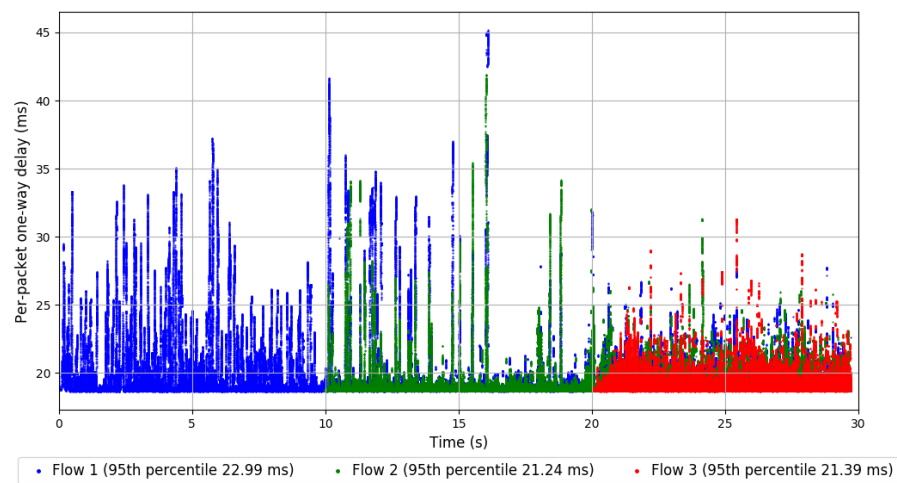
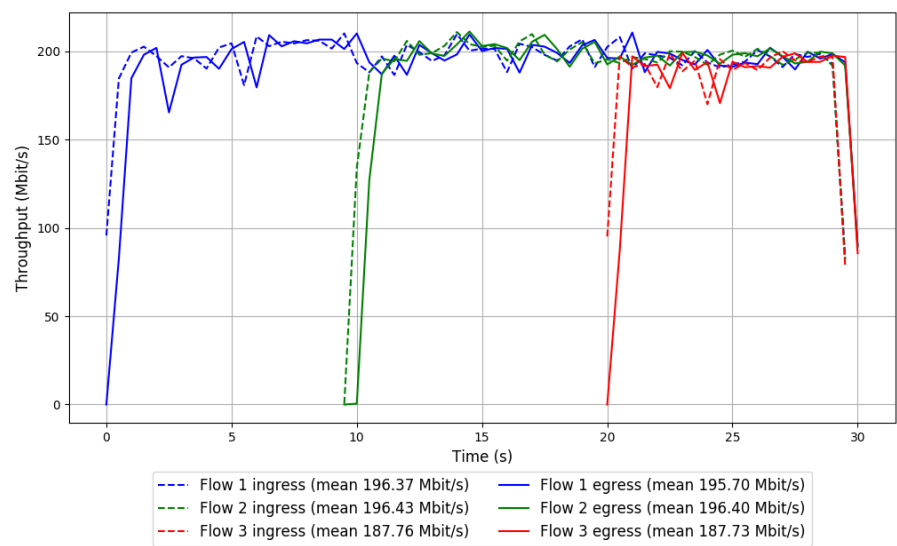
-- Flow 3:

Average throughput: 187.73 Mbit/s

95th percentile per-packet one-way delay: 21.391 ms

Loss rate: 0.02%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

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

End at: 2018-07-24 18:18:48

Local clock offset: 3.545 ms

Remote clock offset: 2.056 ms

Below is generated by plot.py at 2018-07-24 20:17:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.23 Mbit/s

95th percentile per-packet one-way delay: 21.078 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 194.97 Mbit/s

95th percentile per-packet one-way delay: 22.149 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 193.51 Mbit/s

95th percentile per-packet one-way delay: 19.889 ms

Loss rate: 0.08%

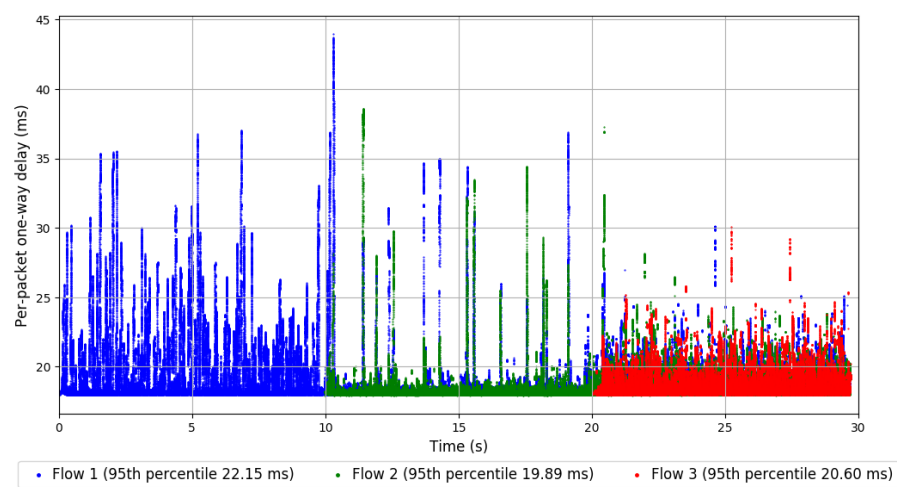
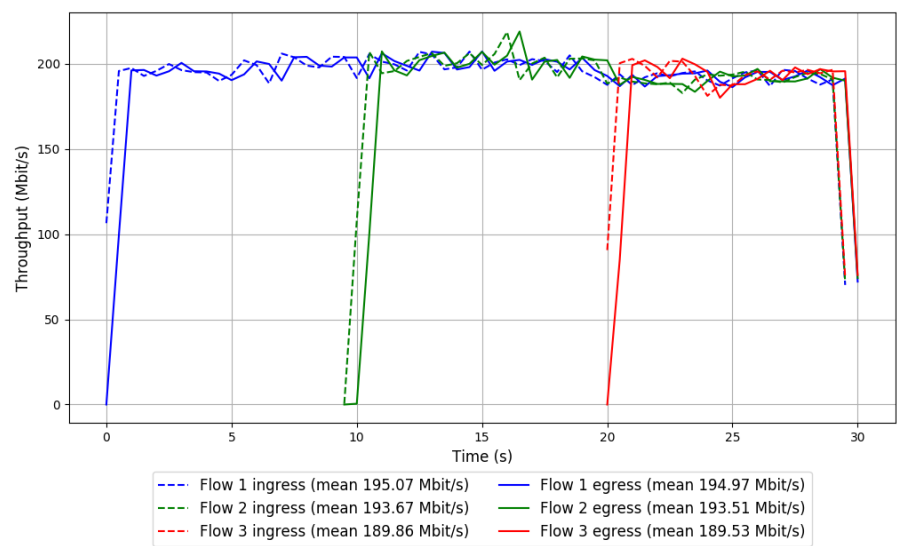
-- Flow 3:

Average throughput: 189.53 Mbit/s

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

Loss rate: 0.16%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-24 18:45:28

End at: 2018-07-24 18:45:58

Local clock offset: 3.669 ms

Remote clock offset: 1.915 ms

Below is generated by plot.py at 2018-07-24 20:19:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 391.13 Mbit/s

95th percentile per-packet one-way delay: 21.188 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 199.10 Mbit/s

95th percentile per-packet one-way delay: 21.572 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 197.33 Mbit/s

95th percentile per-packet one-way delay: 20.664 ms

Loss rate: 0.01%

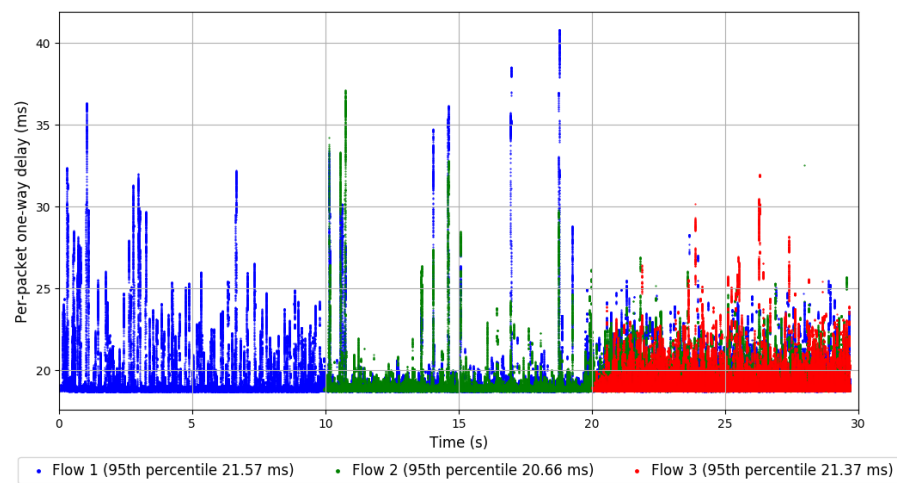
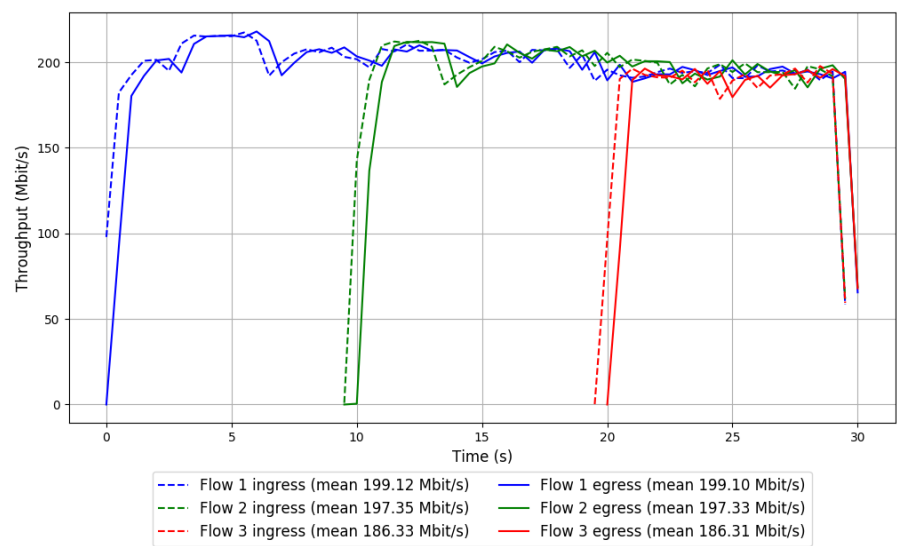
-- Flow 3:

Average throughput: 186.31 Mbit/s

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

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

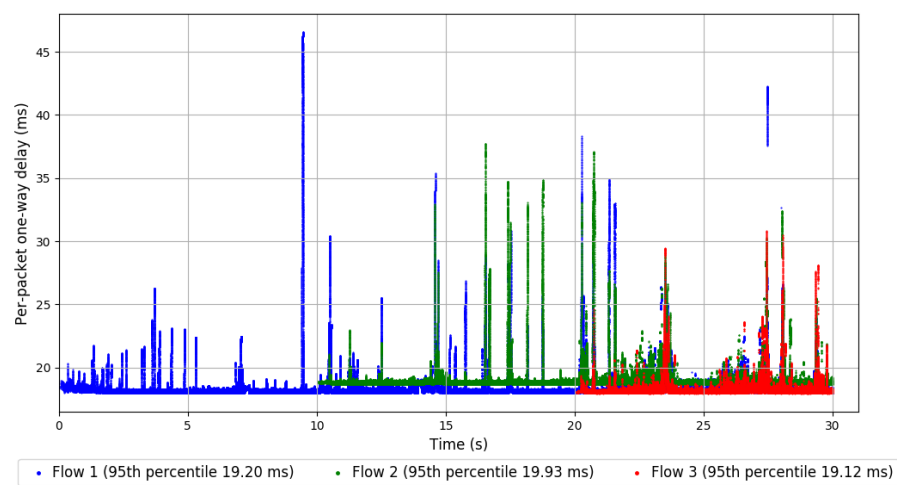
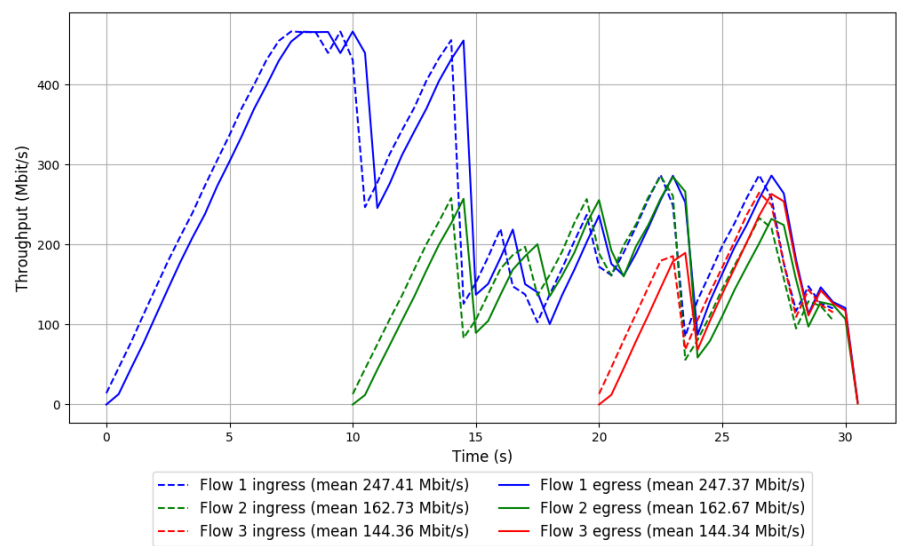


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-24 14:43:21
End at: 2018-07-24 14:43:51
Local clock offset: 3.739 ms
Remote clock offset: 0.417 ms

# Below is generated by plot.py at 2018-07-24 20:20:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 403.72 Mbit/s
95th percentile per-packet one-way delay: 19.425 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 247.37 Mbit/s
95th percentile per-packet one-way delay: 19.199 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 162.67 Mbit/s
95th percentile per-packet one-way delay: 19.931 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 144.34 Mbit/s
95th percentile per-packet one-way delay: 19.120 ms
Loss rate: 0.01%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-24 15:10:34

End at: 2018-07-24 15:11:04

Local clock offset: 3.559 ms

Remote clock offset: 1.238 ms

Below is generated by plot.py at 2018-07-24 20:20:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 403.69 Mbit/s

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

Loss rate: 0.03%

-- Flow 1:

Average throughput: 228.99 Mbit/s

95th percentile per-packet one-way delay: 19.187 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 189.75 Mbit/s

95th percentile per-packet one-way delay: 19.957 ms

Loss rate: 0.03%

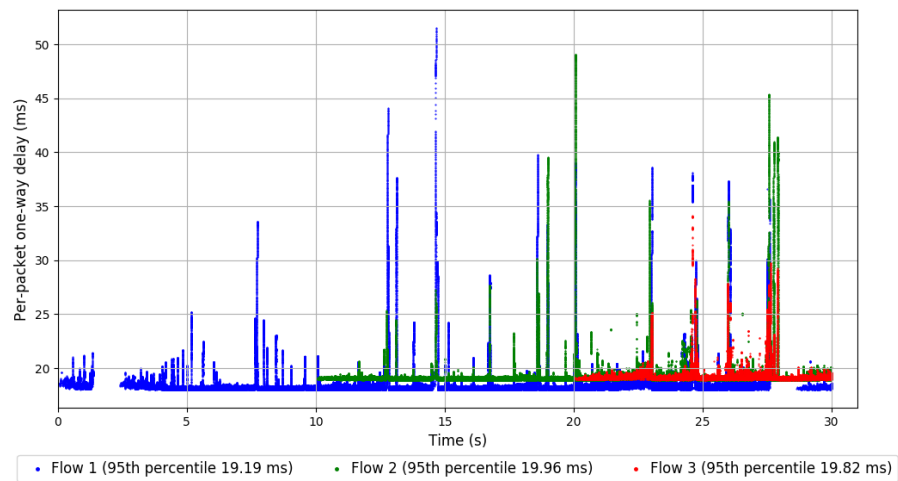
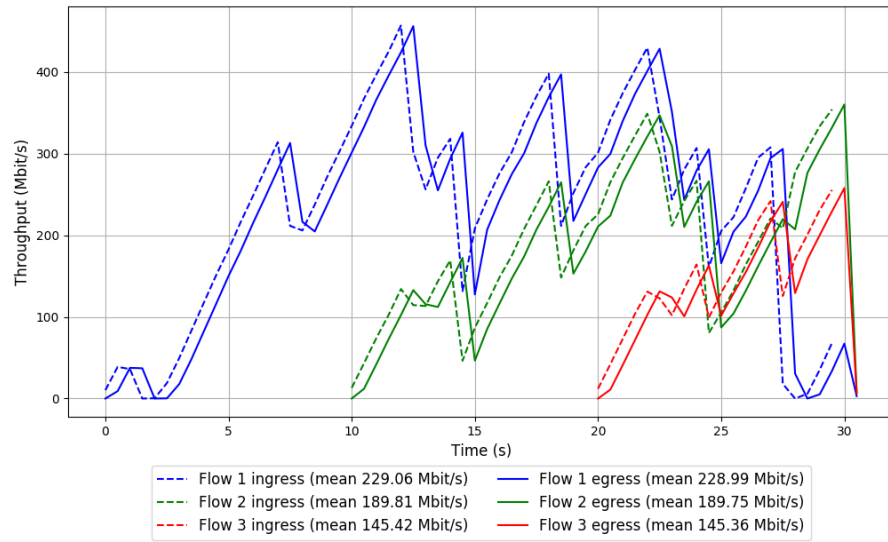
-- Flow 3:

Average throughput: 145.36 Mbit/s

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

Loss rate: 0.06%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-24 15:37:53

End at: 2018-07-24 15:38:23

Local clock offset: 3.556 ms

Remote clock offset: 1.677 ms

Below is generated by plot.py at 2018-07-24 20:22:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 463.52 Mbit/s

95th percentile per-packet one-way delay: 19.927 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 270.22 Mbit/s

95th percentile per-packet one-way delay: 20.221 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 228.02 Mbit/s

95th percentile per-packet one-way delay: 18.484 ms

Loss rate: 0.02%

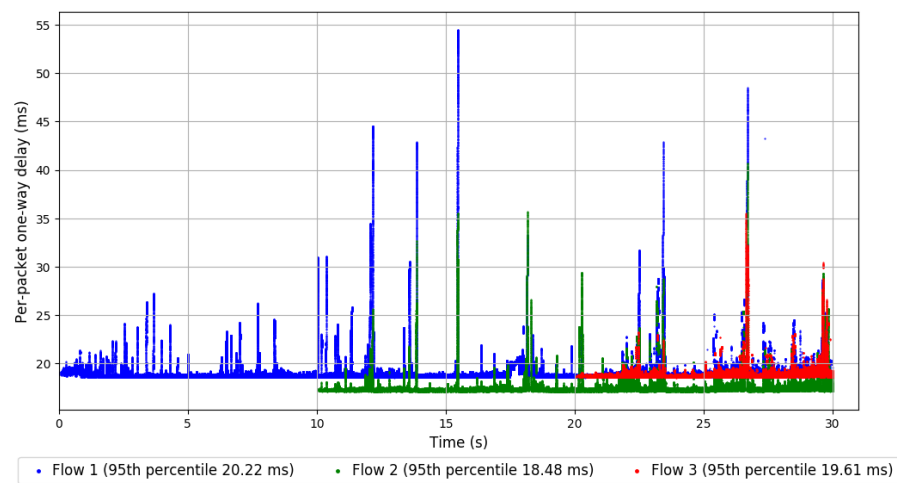
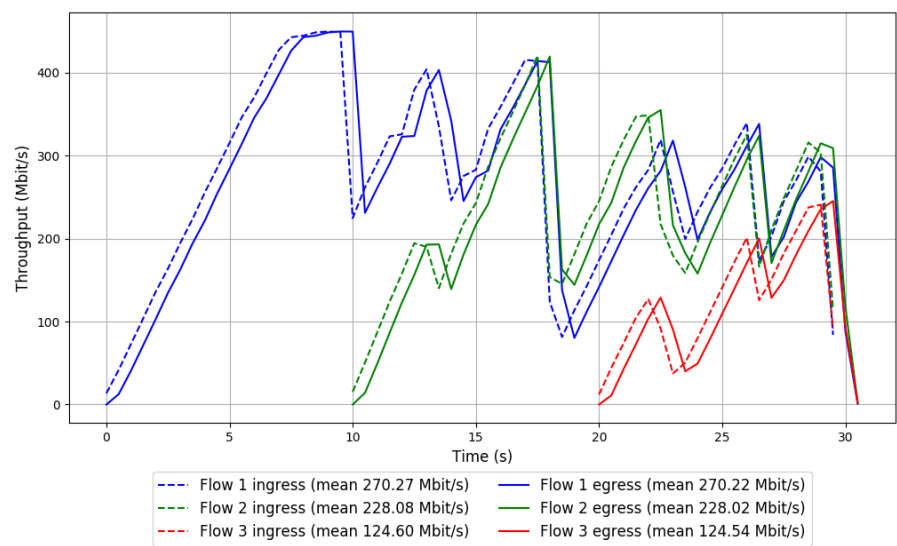
-- Flow 3:

Average throughput: 124.54 Mbit/s

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

Loss rate: 0.05%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-24 16:05:21

End at: 2018-07-24 16:05:51

Local clock offset: 3.526 ms

Remote clock offset: 2.309 ms

Below is generated by plot.py at 2018-07-24 20:22:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 460.10 Mbit/s

95th percentile per-packet one-way delay: 20.181 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 261.44 Mbit/s

95th percentile per-packet one-way delay: 19.782 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 236.90 Mbit/s

95th percentile per-packet one-way delay: 20.658 ms

Loss rate: 0.07%

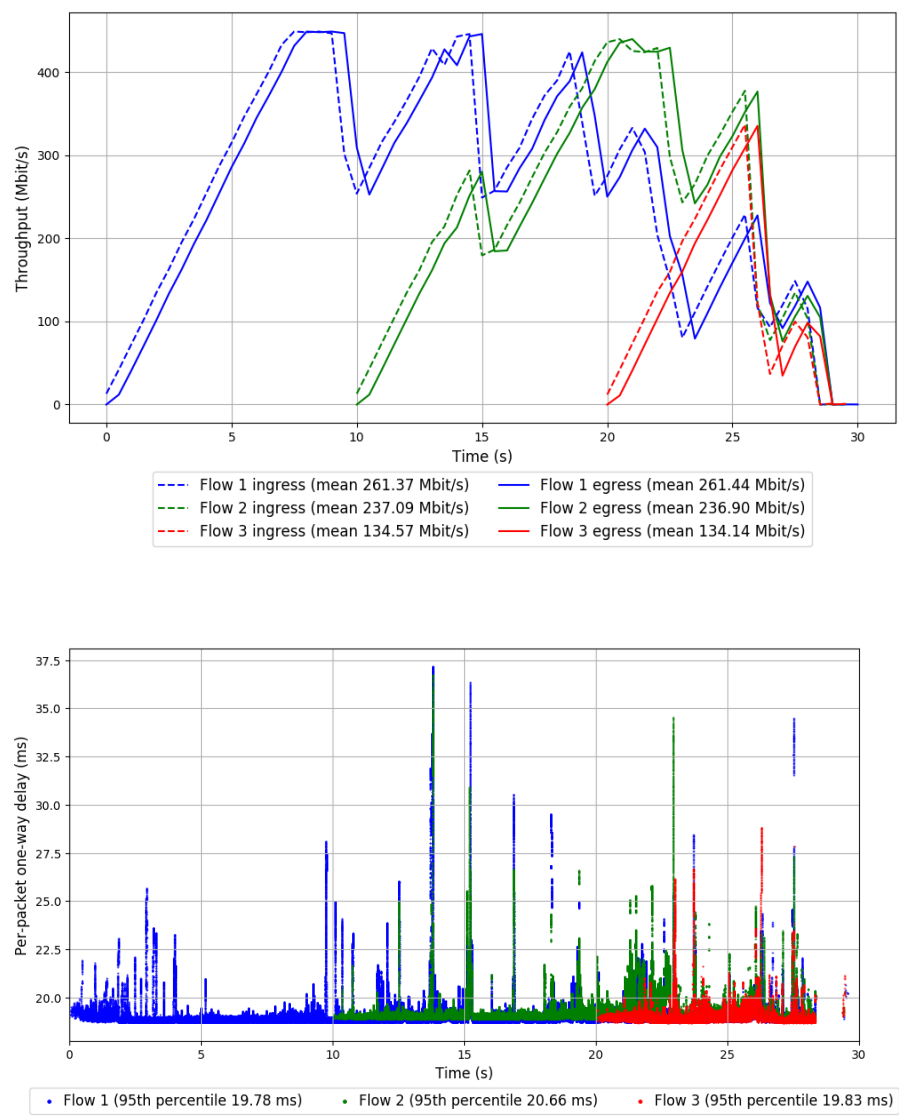
-- Flow 3:

Average throughput: 134.14 Mbit/s

95th percentile per-packet one-way delay: 19.829 ms

Loss rate: 0.30%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-24 16:32:28

End at: 2018-07-24 16:32:58

Local clock offset: 3.471 ms

Remote clock offset: 2.918 ms

Below is generated by plot.py at 2018-07-24 20:22:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 426.91 Mbit/s

95th percentile per-packet one-way delay: 19.271 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 263.33 Mbit/s

95th percentile per-packet one-way delay: 18.492 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 167.96 Mbit/s

95th percentile per-packet one-way delay: 19.780 ms

Loss rate: 0.03%

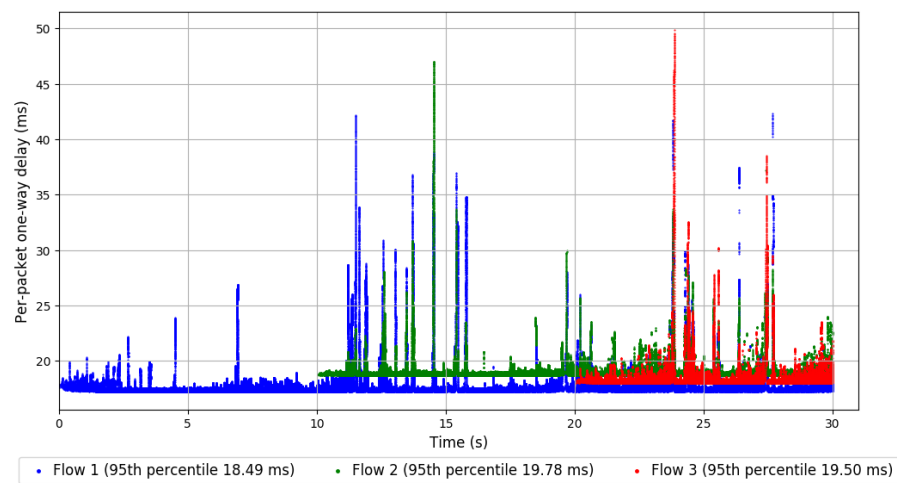
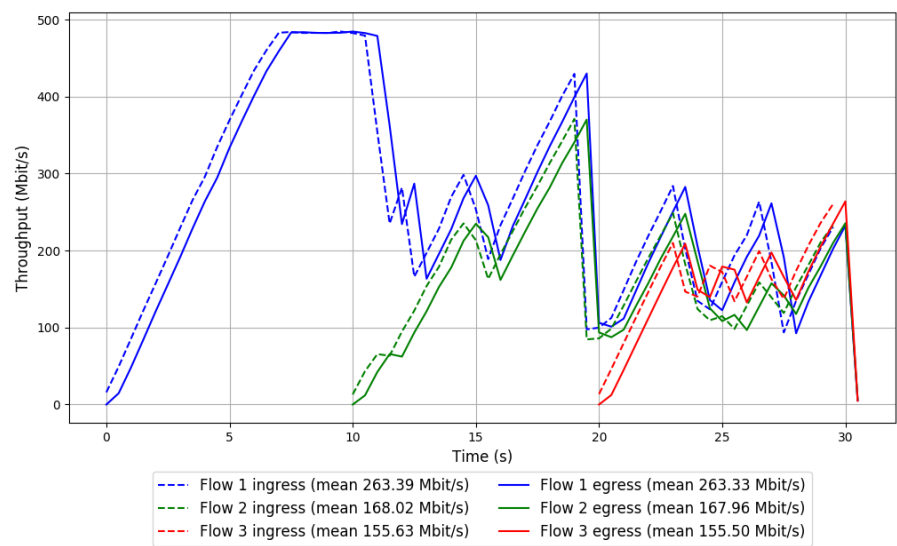
-- Flow 3:

Average throughput: 155.50 Mbit/s

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

Loss rate: 0.08%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-24 16:59:45

End at: 2018-07-24 17:00:15

Local clock offset: 3.647 ms

Remote clock offset: 2.754 ms

Below is generated by plot.py at 2018-07-24 20:22:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.78 Mbit/s

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

Loss rate: 0.05%

-- Flow 1:

Average throughput: 224.39 Mbit/s

95th percentile per-packet one-way delay: 19.825 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 142.74 Mbit/s

95th percentile per-packet one-way delay: 18.323 ms

Loss rate: 0.08%

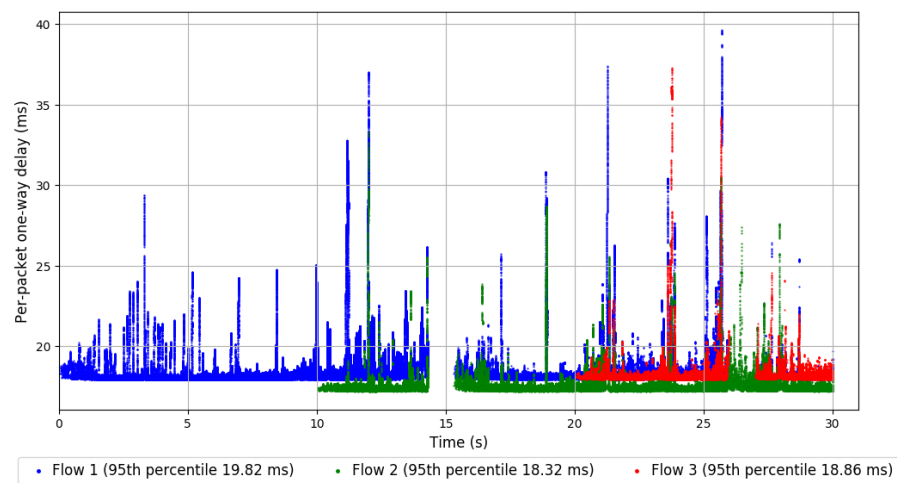
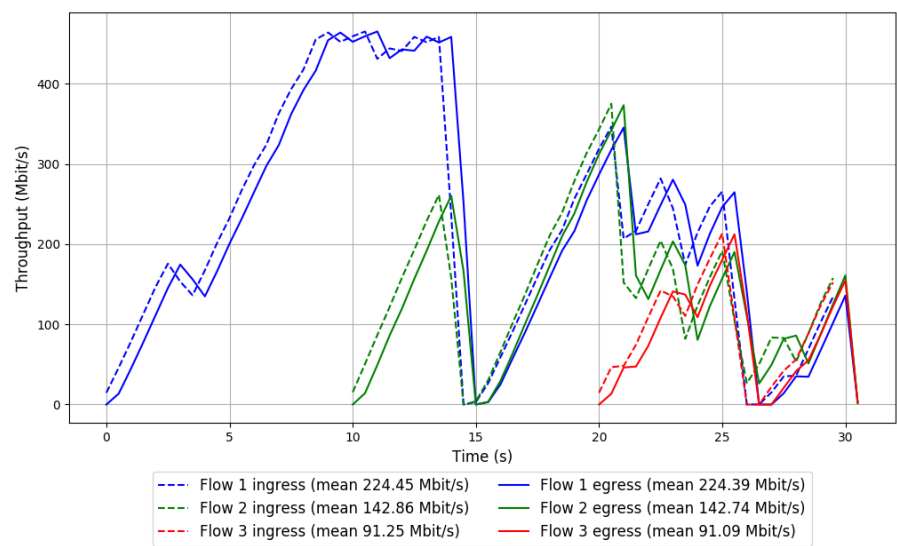
-- Flow 3:

Average throughput: 91.09 Mbit/s

95th percentile per-packet one-way delay: 18.856 ms

Loss rate: 0.17%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-24 17:27:11

End at: 2018-07-24 17:27:41

Local clock offset: 3.46 ms

Remote clock offset: 2.797 ms

Below is generated by plot.py at 2018-07-24 20:22:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 400.07 Mbit/s

95th percentile per-packet one-way delay: 19.835 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 233.84 Mbit/s

95th percentile per-packet one-way delay: 19.850 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 202.92 Mbit/s

95th percentile per-packet one-way delay: 19.880 ms

Loss rate: 0.04%

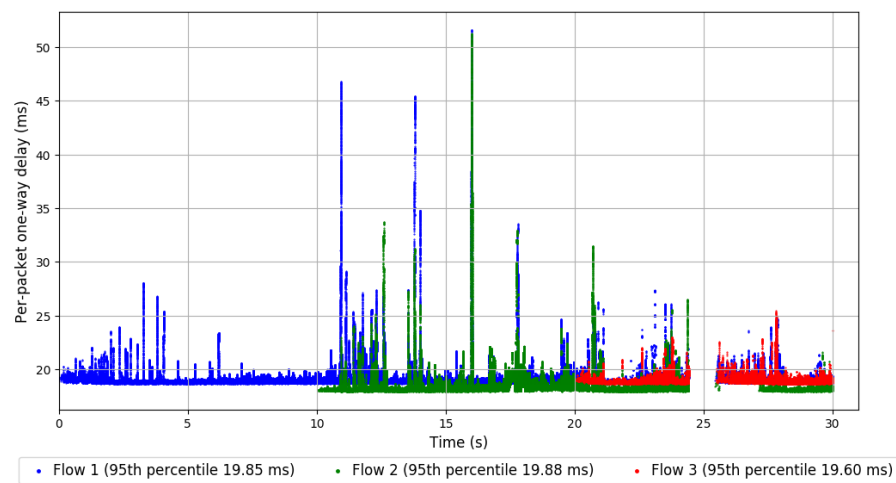
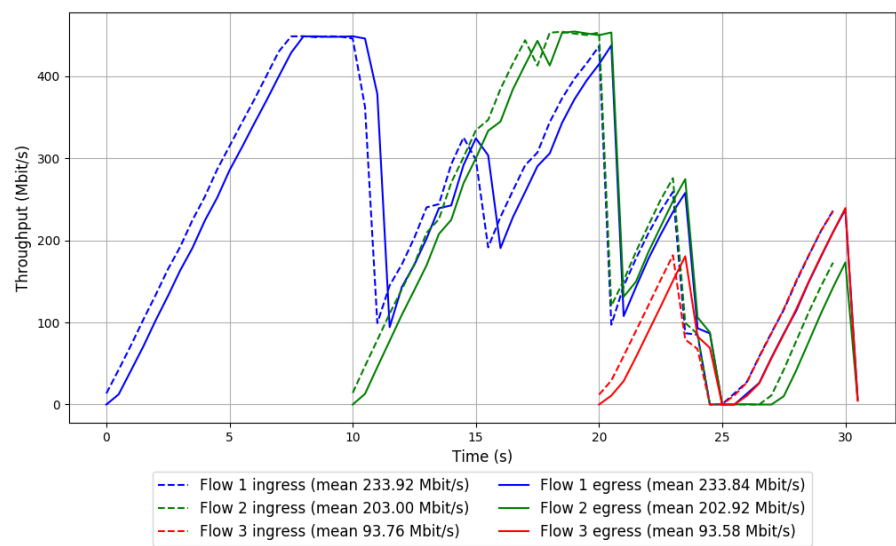
-- Flow 3:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 19.600 ms

Loss rate: 0.15%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-24 17:54:34

End at: 2018-07-24 17:55:04

Local clock offset: 3.107 ms

Remote clock offset: 2.356 ms

Below is generated by plot.py at 2018-07-24 20:23:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.29 Mbit/s

95th percentile per-packet one-way delay: 20.337 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 210.80 Mbit/s

95th percentile per-packet one-way delay: 20.297 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 150.47 Mbit/s

95th percentile per-packet one-way delay: 20.616 ms

Loss rate: 0.09%

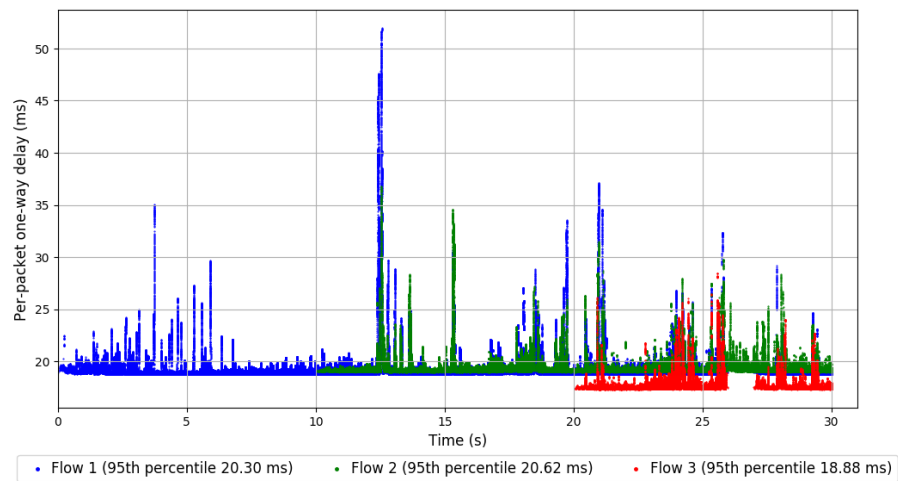
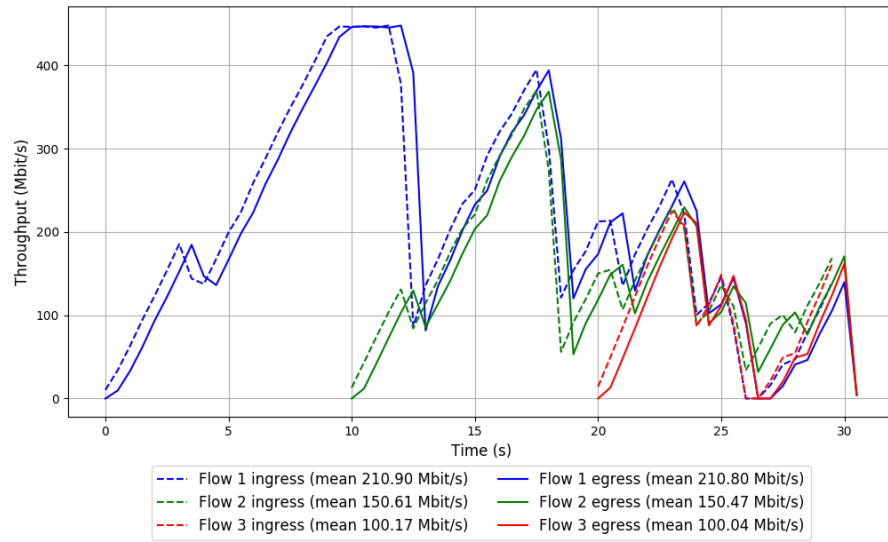
-- Flow 3:

Average throughput: 100.04 Mbit/s

95th percentile per-packet one-way delay: 18.881 ms

Loss rate: 0.13%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-24 18:21:34

End at: 2018-07-24 18:22:04

Local clock offset: 3.52 ms

Remote clock offset: 2.046 ms

Below is generated by plot.py at 2018-07-24 20:24:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.89 Mbit/s

95th percentile per-packet one-way delay: 19.873 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 198.85 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 171.17 Mbit/s

95th percentile per-packet one-way delay: 19.611 ms

Loss rate: 0.04%

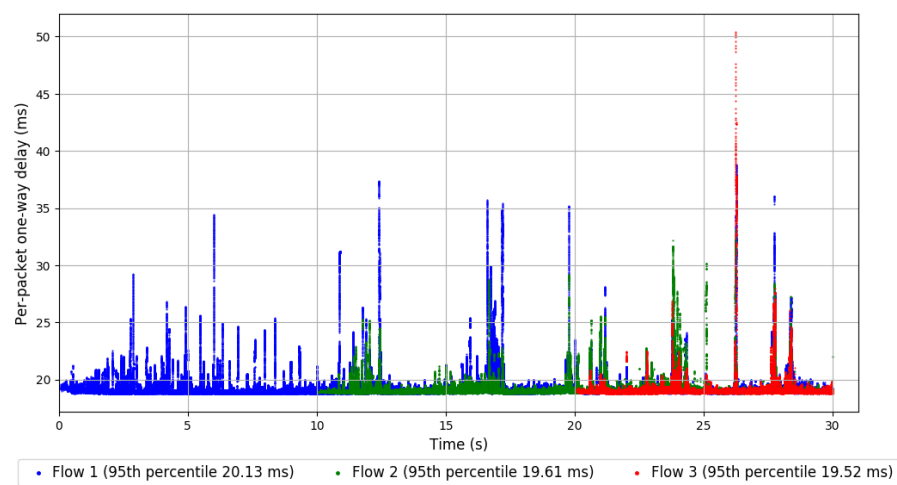
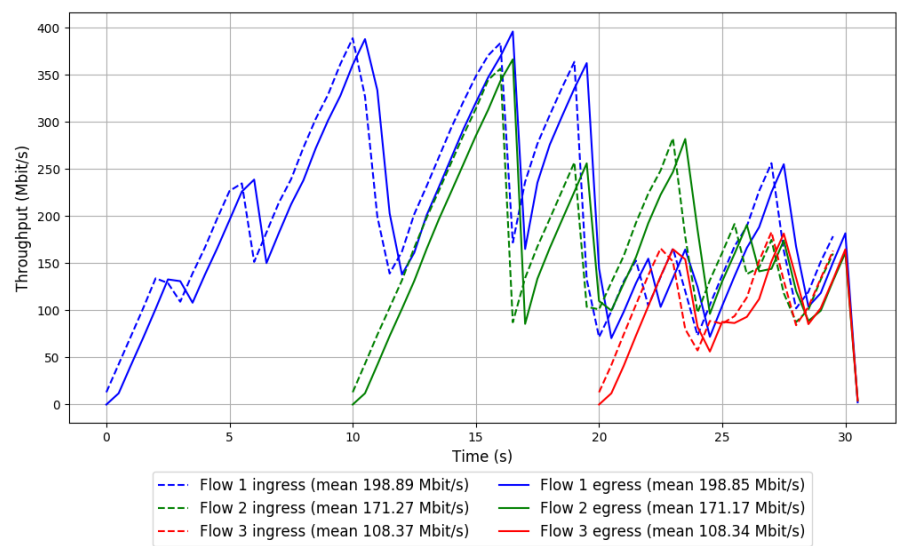
-- Flow 3:

Average throughput: 108.34 Mbit/s

95th percentile per-packet one-way delay: 19.516 ms

Loss rate: 0.03%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-24 18:48:42

End at: 2018-07-24 18:49:12

Local clock offset: 3.709 ms

Remote clock offset: 1.838 ms

Below is generated by plot.py at 2018-07-24 20:24:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.50 Mbit/s

95th percentile per-packet one-way delay: 20.142 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 183.43 Mbit/s

95th percentile per-packet one-way delay: 20.374 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 130.52 Mbit/s

95th percentile per-packet one-way delay: 19.722 ms

Loss rate: 0.10%

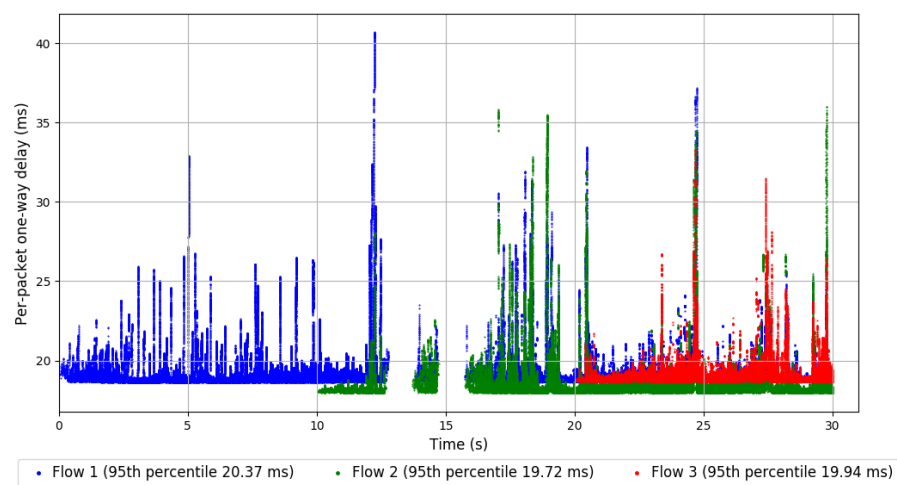
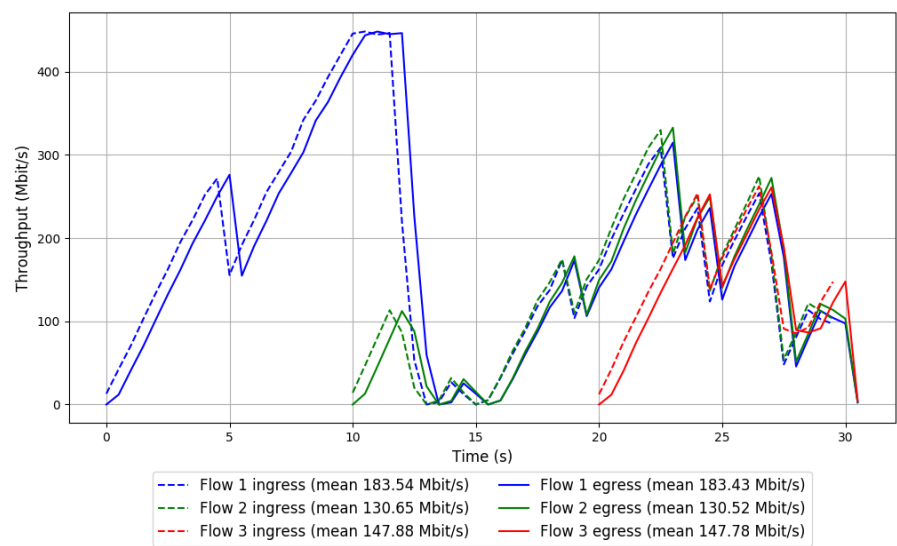
-- Flow 3:

Average throughput: 147.78 Mbit/s

95th percentile per-packet one-way delay: 19.936 ms

Loss rate: 0.07%

Run 10: Report of LEDBAT — Data Link

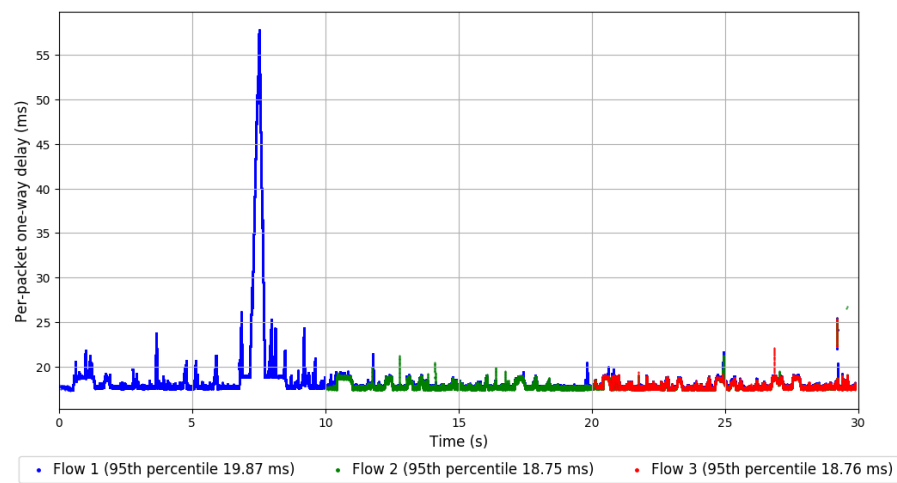
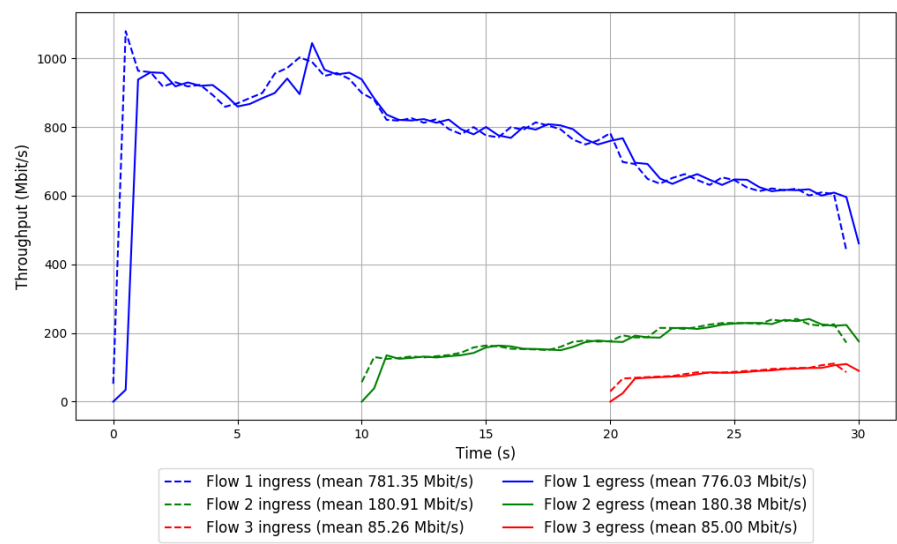


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-24 14:41:41
End at: 2018-07-24 14:42:11
Local clock offset: 3.711 ms
Remote clock offset: 0.46 ms

# Below is generated by plot.py at 2018-07-24 20:32:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 923.97 Mbit/s
95th percentile per-packet one-way delay: 19.307 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 776.03 Mbit/s
95th percentile per-packet one-way delay: 19.873 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 180.38 Mbit/s
95th percentile per-packet one-way delay: 18.745 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 85.00 Mbit/s
95th percentile per-packet one-way delay: 18.757 ms
Loss rate: 0.31%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-24 15:08:54

End at: 2018-07-24 15:09:24

Local clock offset: 3.713 ms

Remote clock offset: 1.124 ms

Below is generated by plot.py at 2018-07-24 20:33:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 930.23 Mbit/s

95th percentile per-packet one-way delay: 20.804 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 751.61 Mbit/s

95th percentile per-packet one-way delay: 21.222 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 185.45 Mbit/s

95th percentile per-packet one-way delay: 20.035 ms

Loss rate: 0.61%

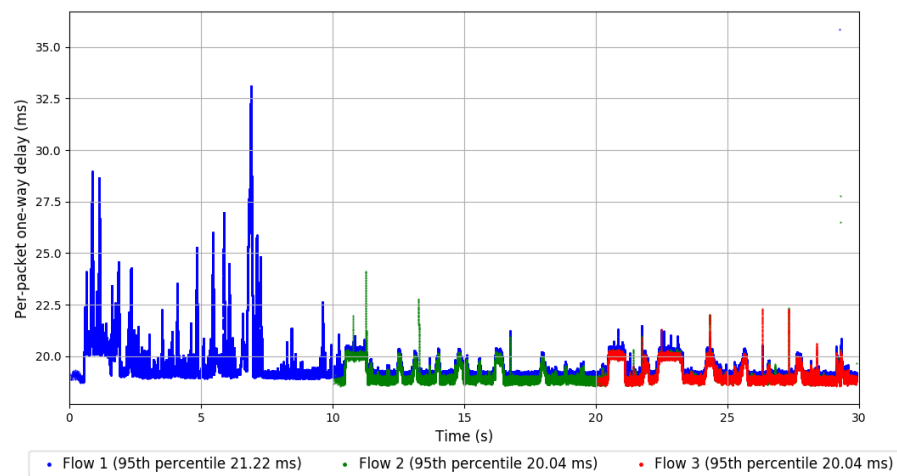
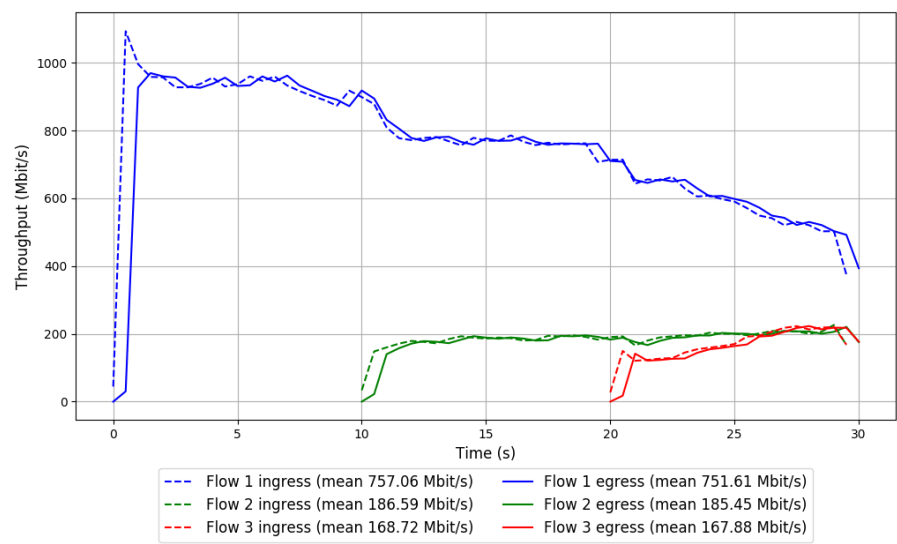
-- Flow 3:

Average throughput: 167.88 Mbit/s

95th percentile per-packet one-way delay: 20.035 ms

Loss rate: 0.50%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-24 15:36:14

End at: 2018-07-24 15:36:44

Local clock offset: 3.526 ms

Remote clock offset: 1.687 ms

Below is generated by plot.py at 2018-07-24 20:33:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 889.15 Mbit/s

95th percentile per-packet one-way delay: 19.875 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 825.65 Mbit/s

95th percentile per-packet one-way delay: 19.722 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 37.87 Mbit/s

95th percentile per-packet one-way delay: 19.360 ms

Loss rate: 2.38%

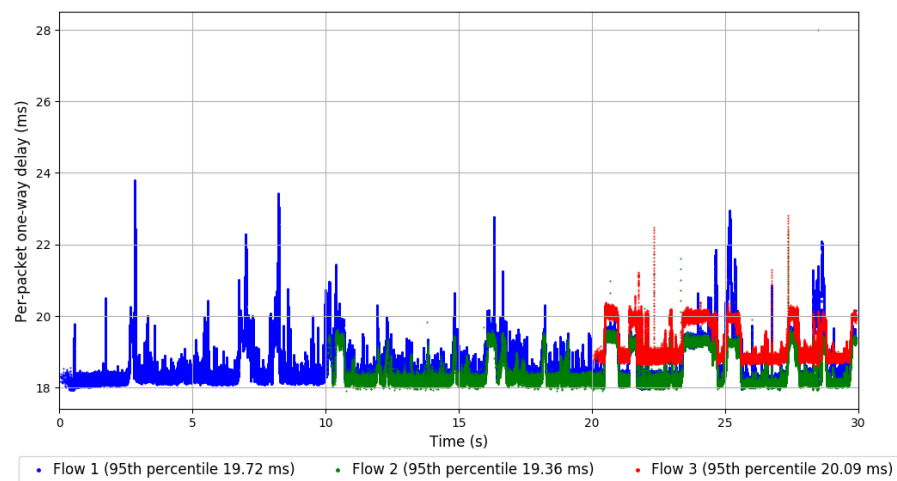
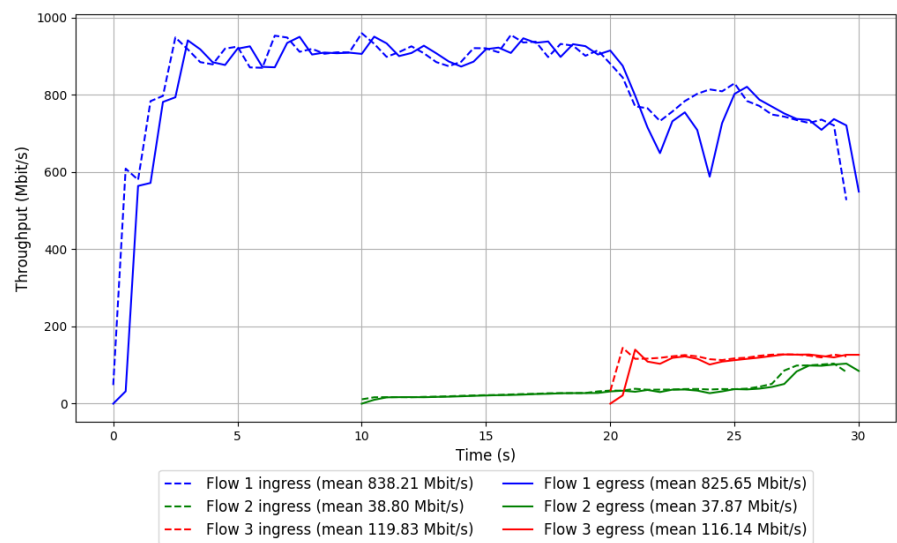
-- Flow 3:

Average throughput: 116.14 Mbit/s

95th percentile per-packet one-way delay: 20.094 ms

Loss rate: 3.07%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-24 16:03:41

End at: 2018-07-24 16:04:11

Local clock offset: 3.537 ms

Remote clock offset: 2.31 ms

Below is generated by plot.py at 2018-07-24 20:33:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 896.88 Mbit/s

95th percentile per-packet one-way delay: 19.771 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 811.55 Mbit/s

95th percentile per-packet one-way delay: 19.658 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 51.06 Mbit/s

95th percentile per-packet one-way delay: 20.137 ms

Loss rate: 0.87%

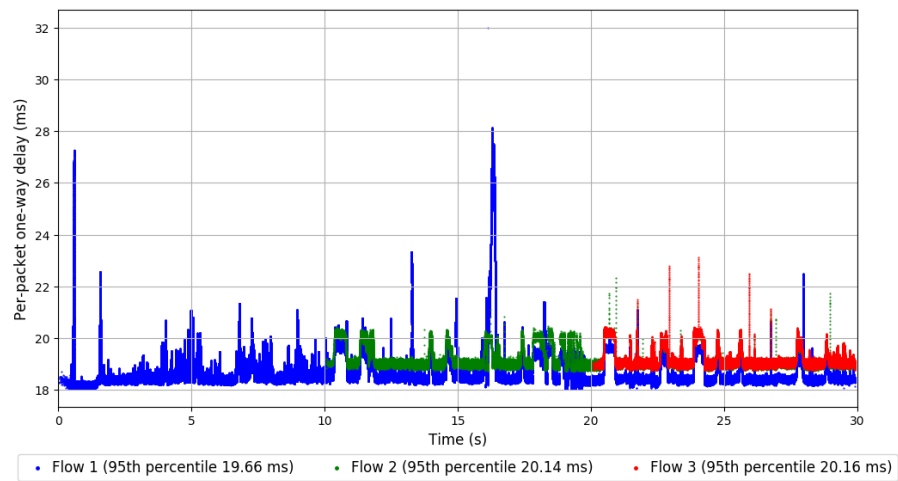
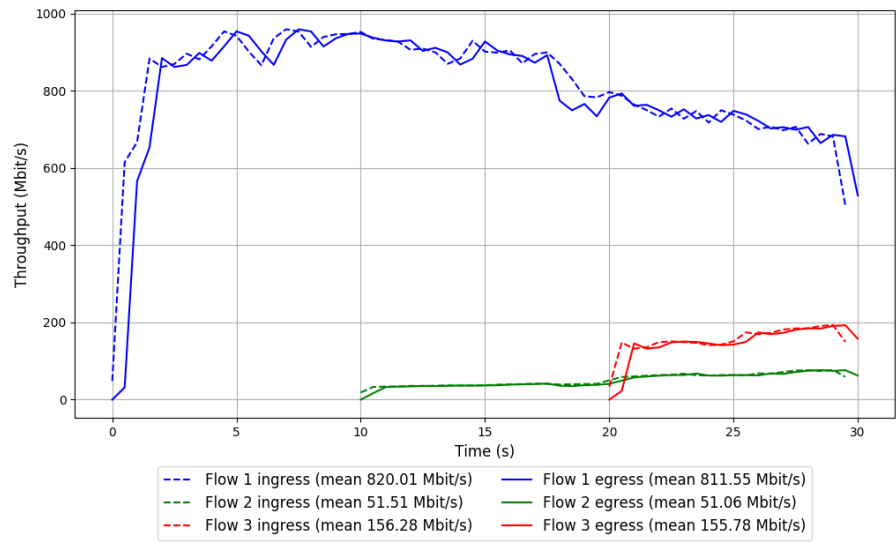
-- Flow 3:

Average throughput: 155.78 Mbit/s

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

Loss rate: 0.32%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-24 16:30:50

End at: 2018-07-24 16:31:20

Local clock offset: 3.489 ms

Remote clock offset: 2.837 ms

Below is generated by plot.py at 2018-07-24 20:33:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 859.46 Mbit/s

95th percentile per-packet one-way delay: 20.133 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 755.55 Mbit/s

95th percentile per-packet one-way delay: 20.143 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 133.01 Mbit/s

95th percentile per-packet one-way delay: 20.048 ms

Loss rate: 0.29%

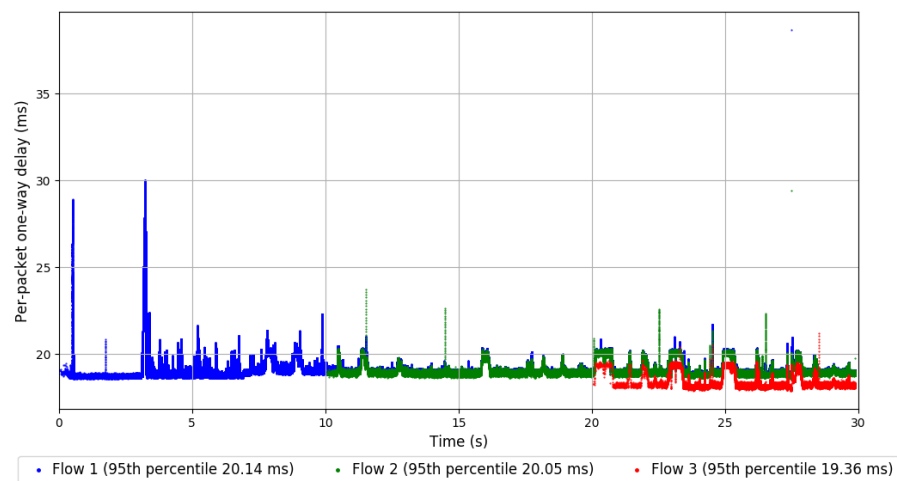
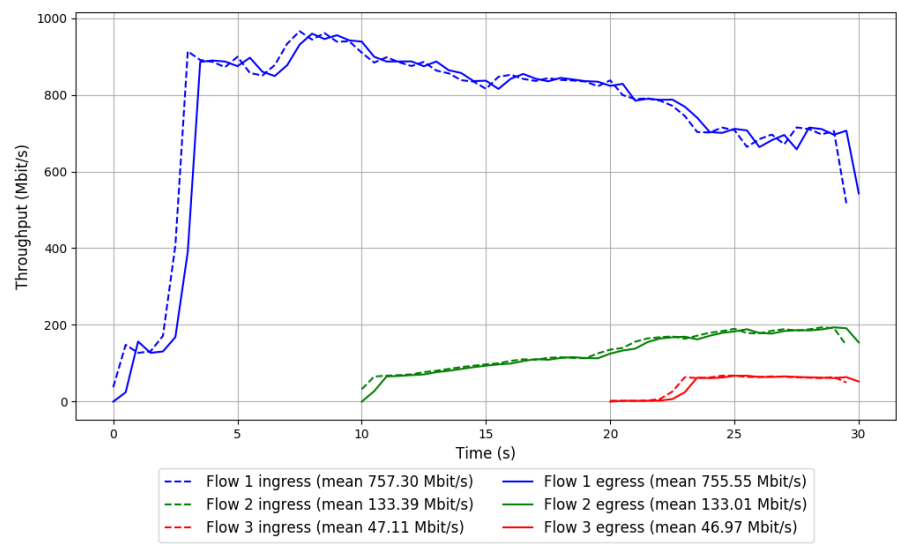
-- Flow 3:

Average throughput: 46.97 Mbit/s

95th percentile per-packet one-way delay: 19.362 ms

Loss rate: 0.30%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-24 16:58:06

End at: 2018-07-24 16:58:36

Local clock offset: 3.544 ms

Remote clock offset: 2.816 ms

Below is generated by plot.py at 2018-07-24 20:34:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 896.17 Mbit/s

95th percentile per-packet one-way delay: 19.145 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 812.00 Mbit/s

95th percentile per-packet one-way delay: 18.892 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 119.93 Mbit/s

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

Loss rate: 1.03%

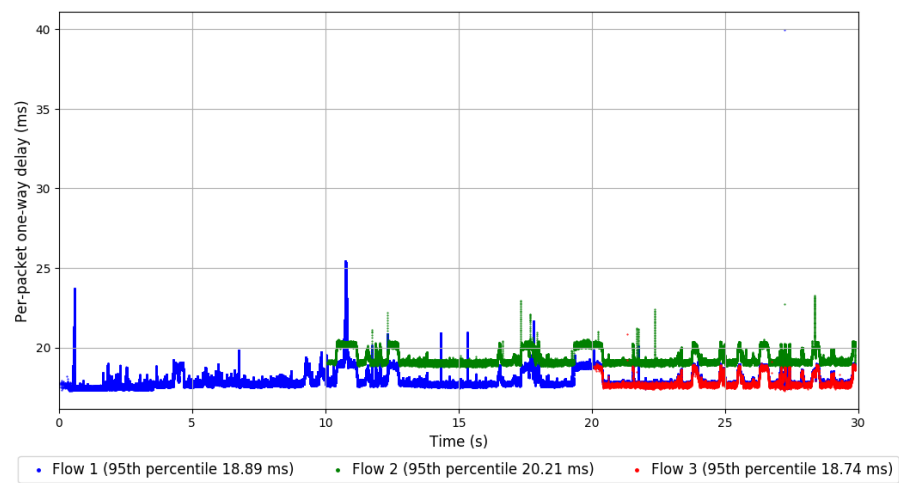
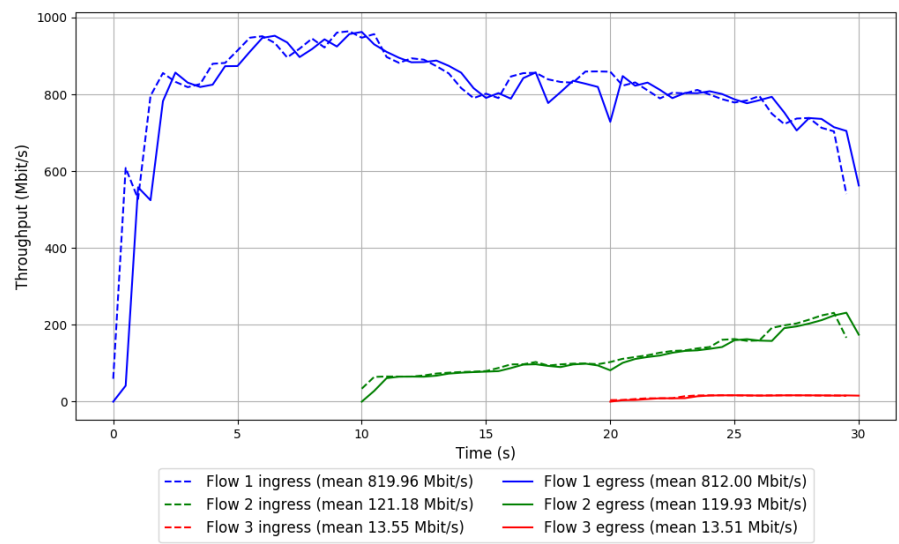
-- Flow 3:

Average throughput: 13.51 Mbit/s

95th percentile per-packet one-way delay: 18.742 ms

Loss rate: 0.27%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-24 17:25:31

End at: 2018-07-24 17:26:01

Local clock offset: 3.474 ms

Remote clock offset: 2.816 ms

Below is generated by plot.py at 2018-07-24 20:34:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 863.86 Mbit/s

95th percentile per-packet one-way delay: 20.201 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 724.19 Mbit/s

95th percentile per-packet one-way delay: 20.186 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 167.21 Mbit/s

95th percentile per-packet one-way delay: 20.313 ms

Loss rate: 1.54%

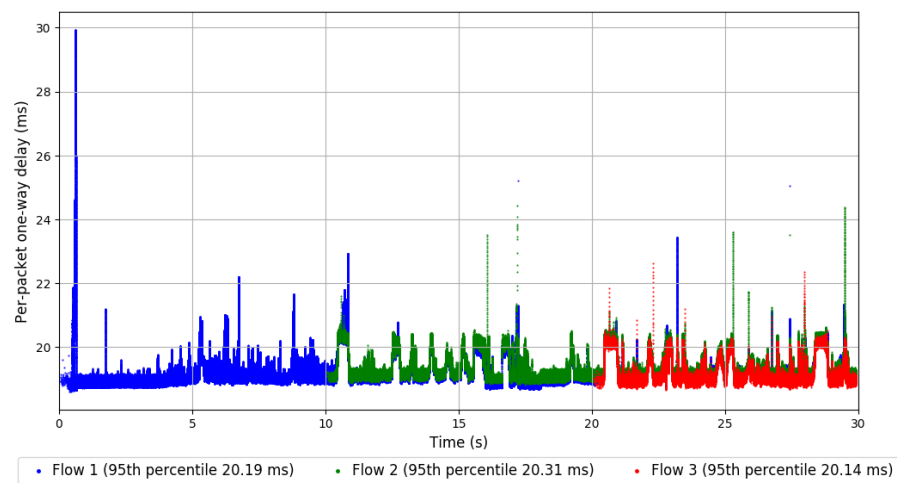
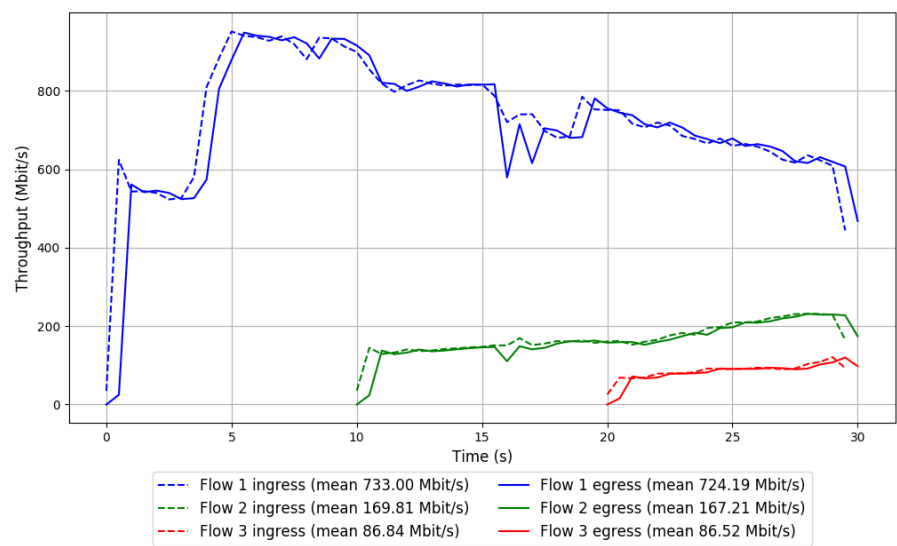
-- Flow 3:

Average throughput: 86.52 Mbit/s

95th percentile per-packet one-way delay: 20.135 ms

Loss rate: 0.38%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-24 17:52:55

End at: 2018-07-24 17:53:25

Local clock offset: 3.208 ms

Remote clock offset: 2.395 ms

Below is generated by plot.py at 2018-07-24 20:35:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 883.62 Mbit/s

95th percentile per-packet one-way delay: 20.218 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 734.03 Mbit/s

95th percentile per-packet one-way delay: 20.230 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 175.42 Mbit/s

95th percentile per-packet one-way delay: 19.497 ms

Loss rate: 1.32%

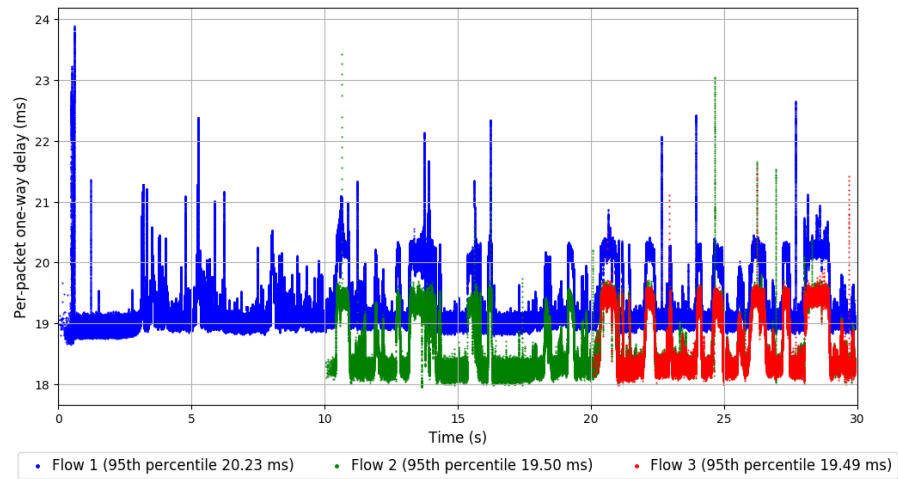
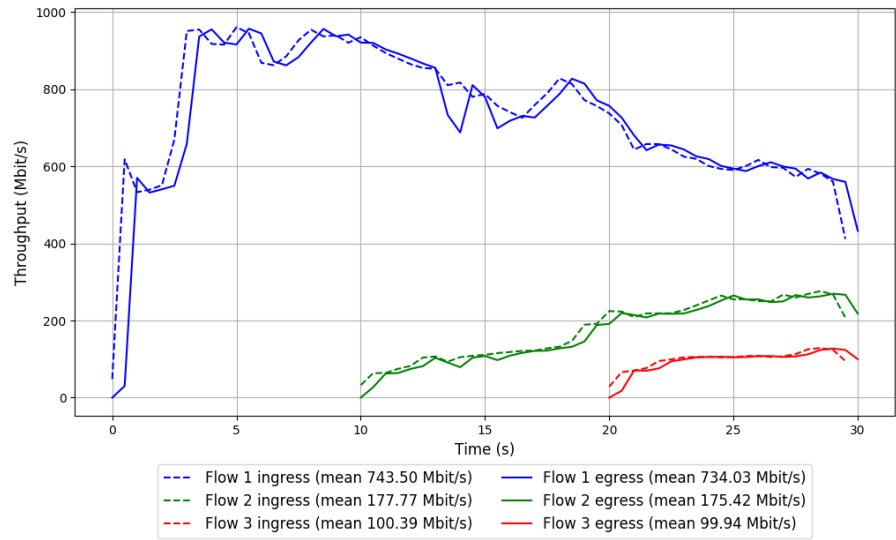
-- Flow 3:

Average throughput: 99.94 Mbit/s

95th percentile per-packet one-way delay: 19.493 ms

Loss rate: 0.45%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-24 18:19:54

End at: 2018-07-24 18:20:24

Local clock offset: 3.486 ms

Remote clock offset: 2.04 ms

Below is generated by plot.py at 2018-07-24 20:43:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 916.90 Mbit/s

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

Loss rate: 0.34%

-- Flow 1:

Average throughput: 818.45 Mbit/s

95th percentile per-packet one-way delay: 20.337 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 134.20 Mbit/s

95th percentile per-packet one-way delay: 20.454 ms

Loss rate: 0.29%

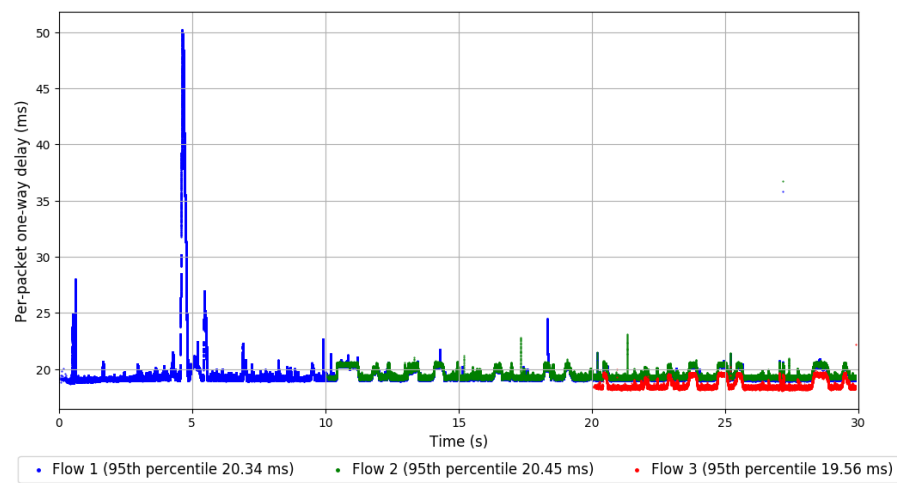
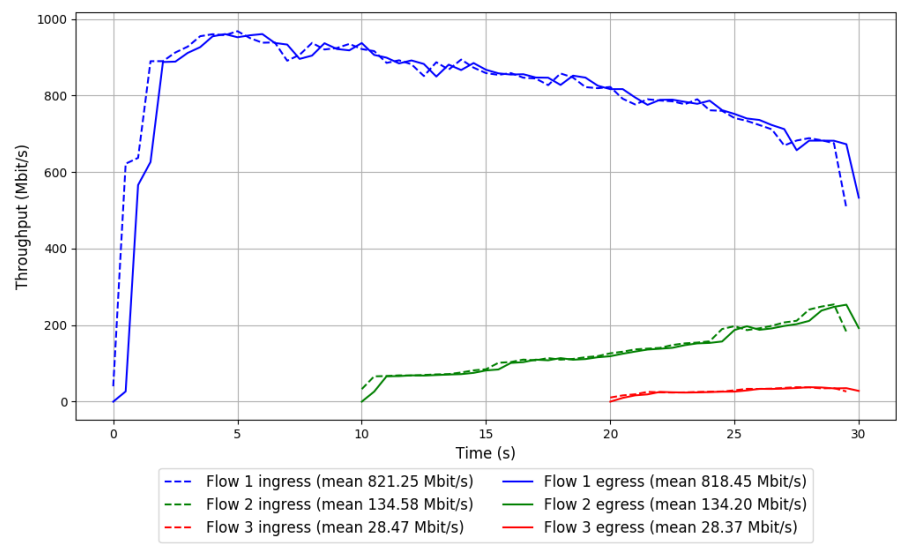
-- Flow 3:

Average throughput: 28.37 Mbit/s

95th percentile per-packet one-way delay: 19.560 ms

Loss rate: 0.32%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-24 18:47:04

End at: 2018-07-24 18:47:34

Local clock offset: 3.704 ms

Remote clock offset: 1.829 ms

Below is generated by plot.py at 2018-07-24 20:43:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 818.08 Mbit/s

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

Loss rate: 0.48%

-- Flow 1:

Average throughput: 639.58 Mbit/s

95th percentile per-packet one-way delay: 20.182 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 247.06 Mbit/s

95th percentile per-packet one-way delay: 19.429 ms

Loss rate: 0.47%

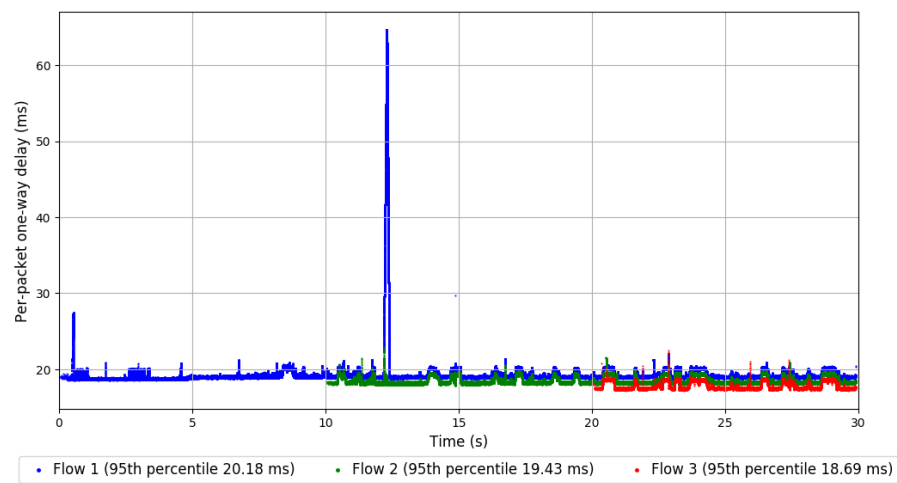
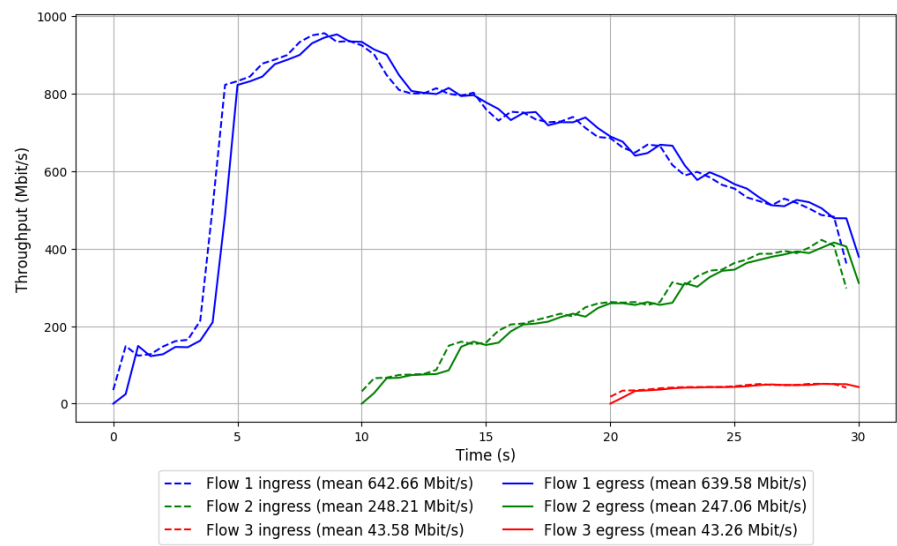
-- Flow 3:

Average throughput: 43.26 Mbit/s

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

Loss rate: 0.73%

Run 10: Report of PCC-Allegro — Data Link

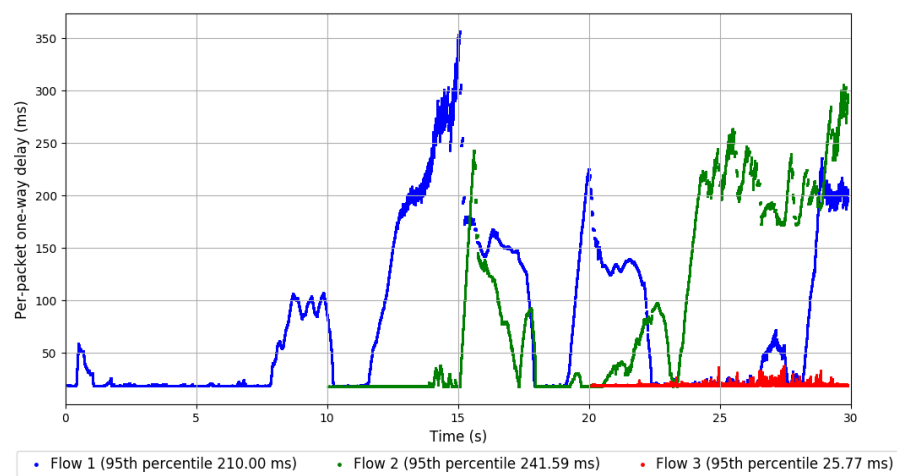
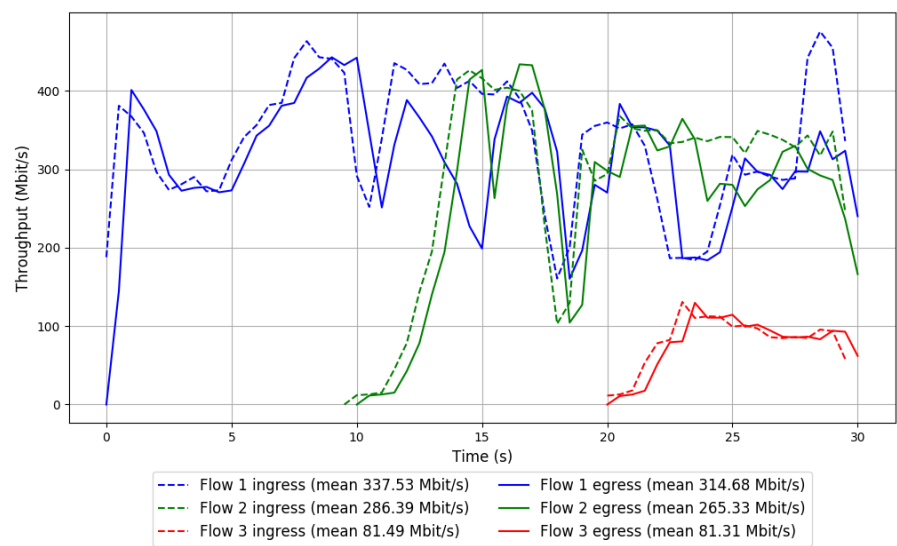


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-24 14:30:17
End at: 2018-07-24 14:30:47
Local clock offset: 3.625 ms
Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2018-07-24 20:44:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 518.17 Mbit/s
95th percentile per-packet one-way delay: 226.993 ms
Loss rate: 6.65%
-- Flow 1:
Average throughput: 314.68 Mbit/s
95th percentile per-packet one-way delay: 209.995 ms
Loss rate: 6.77%
-- Flow 2:
Average throughput: 265.33 Mbit/s
95th percentile per-packet one-way delay: 241.594 ms
Loss rate: 7.35%
-- Flow 3:
Average throughput: 81.31 Mbit/s
95th percentile per-packet one-way delay: 25.775 ms
Loss rate: 0.22%
```


Run 1: Report of PCC-Expr — Data Link

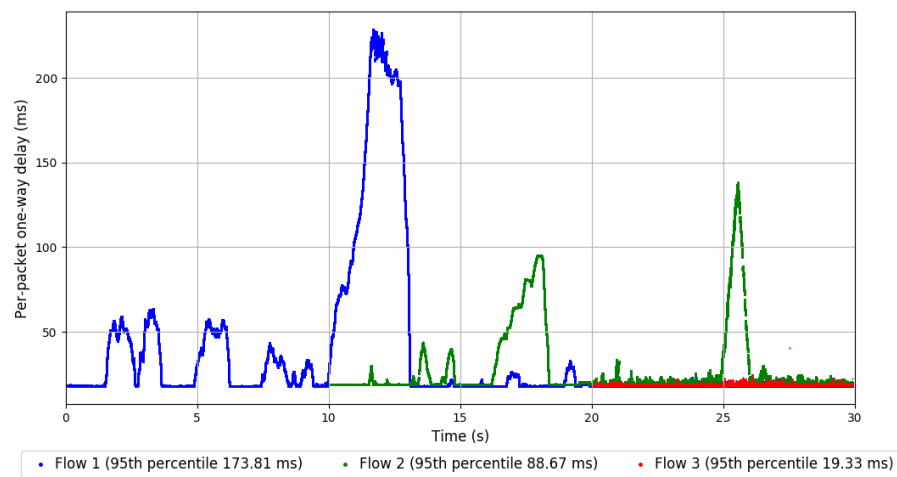
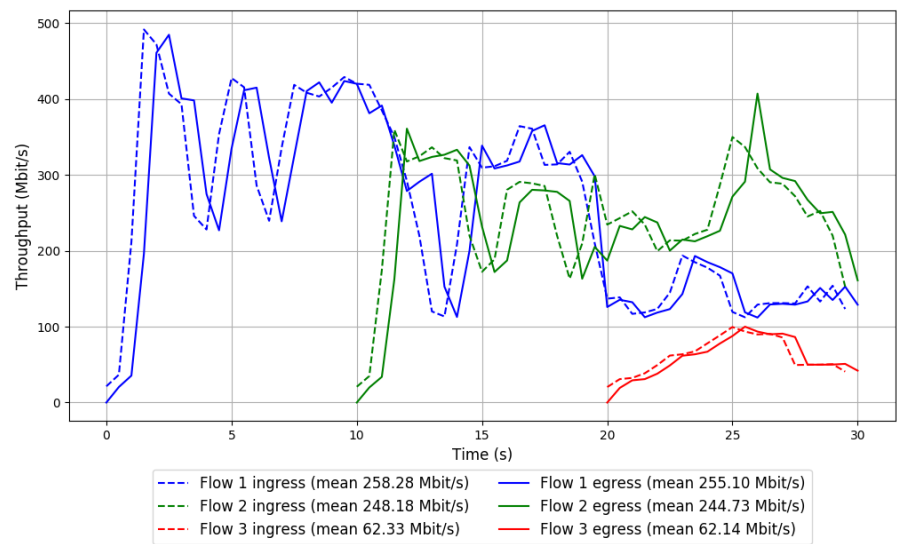


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-24 14:57:26
End at: 2018-07-24 14:57:56
Local clock offset: 3.919 ms
Remote clock offset: 0.802 ms

# Below is generated by plot.py at 2018-07-24 20:44:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 438.35 Mbit/s
95th percentile per-packet one-way delay: 110.857 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 255.10 Mbit/s
95th percentile per-packet one-way delay: 173.810 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 244.73 Mbit/s
95th percentile per-packet one-way delay: 88.667 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 62.14 Mbit/s
95th percentile per-packet one-way delay: 19.330 ms
Loss rate: 0.27%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-24 15:24:44

End at: 2018-07-24 15:25:14

Local clock offset: 3.379 ms

Remote clock offset: 1.467 ms

Below is generated by plot.py at 2018-07-24 20:44:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 463.52 Mbit/s

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

Loss rate: 0.14%

-- Flow 1:

Average throughput: 280.87 Mbit/s

95th percentile per-packet one-way delay: 137.489 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 239.65 Mbit/s

95th percentile per-packet one-way delay: 92.681 ms

Loss rate: 0.18%

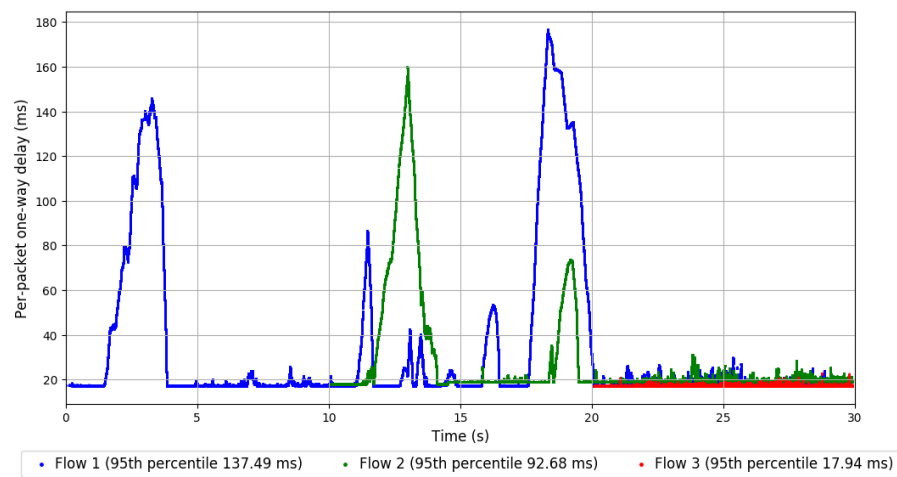
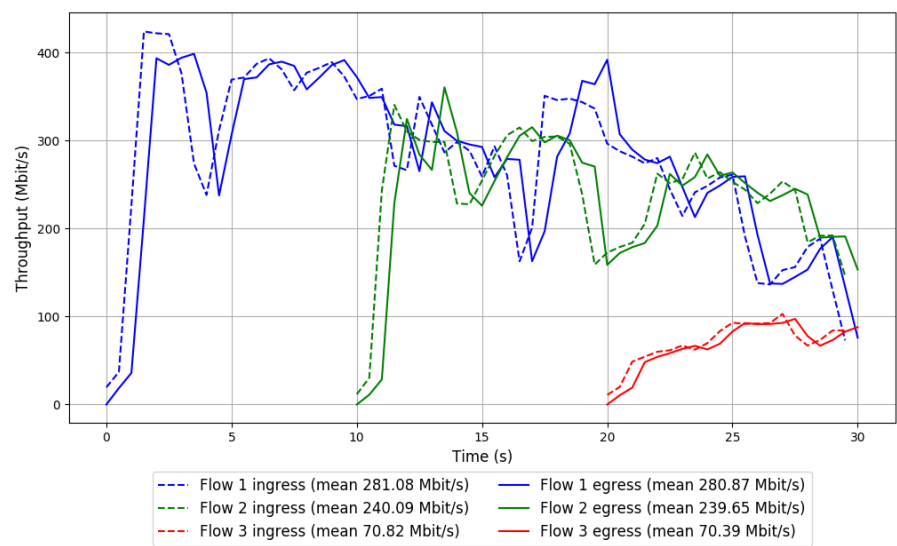
-- Flow 3:

Average throughput: 70.39 Mbit/s

95th percentile per-packet one-way delay: 17.941 ms

Loss rate: 0.60%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-24 15:52:06

End at: 2018-07-24 15:52:36

Local clock offset: 3.581 ms

Remote clock offset: 2.065 ms

Below is generated by plot.py at 2018-07-24 20:45:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 516.51 Mbit/s

95th percentile per-packet one-way delay: 209.045 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 316.25 Mbit/s

95th percentile per-packet one-way delay: 212.248 ms

Loss rate: 1.57%

-- Flow 2:

Average throughput: 282.67 Mbit/s

95th percentile per-packet one-way delay: 187.253 ms

Loss rate: 3.54%

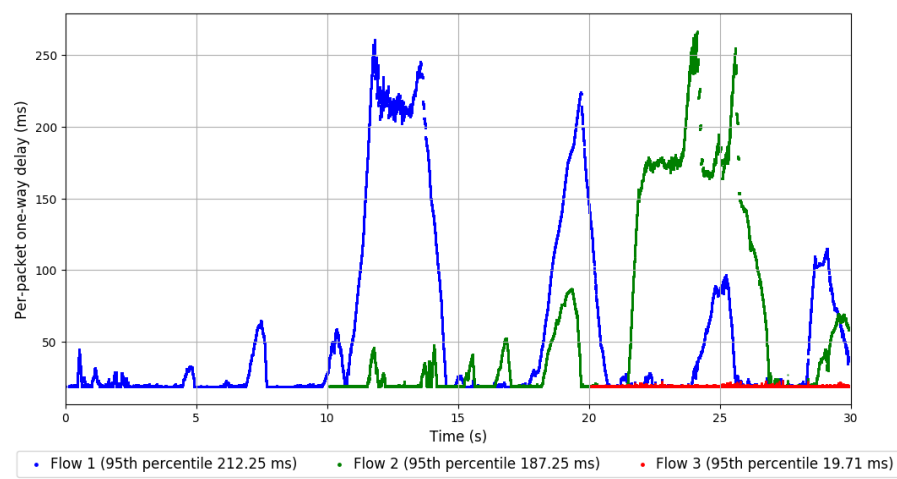
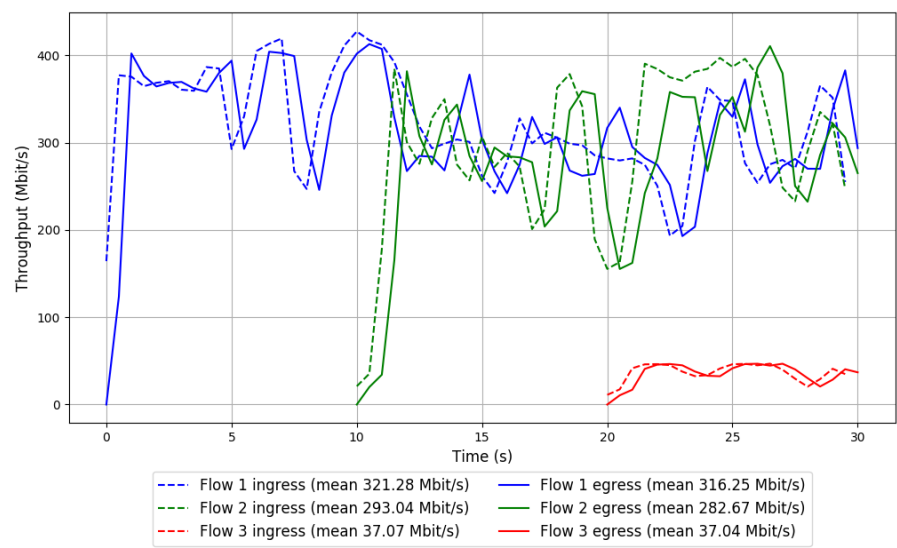
-- Flow 3:

Average throughput: 37.04 Mbit/s

95th percentile per-packet one-way delay: 19.707 ms

Loss rate: 0.08%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-24 16:19:28

End at: 2018-07-24 16:19:58

Local clock offset: 3.5 ms

Remote clock offset: 2.565 ms

Below is generated by plot.py at 2018-07-24 20:45:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 460.59 Mbit/s

95th percentile per-packet one-way delay: 163.090 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 287.01 Mbit/s

95th percentile per-packet one-way delay: 125.751 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 228.10 Mbit/s

95th percentile per-packet one-way delay: 175.074 ms

Loss rate: 1.58%

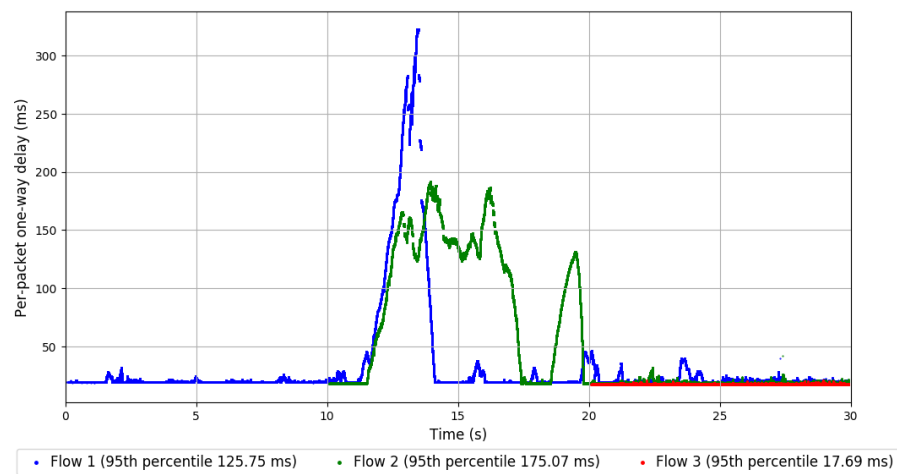
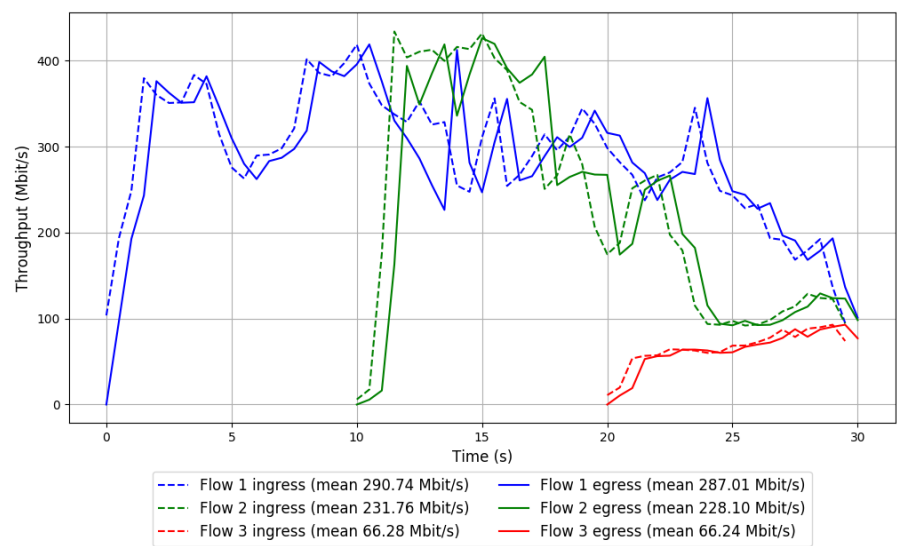
-- Flow 3:

Average throughput: 66.24 Mbit/s

95th percentile per-packet one-way delay: 17.690 ms

Loss rate: 0.06%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-24 16:46:35

End at: 2018-07-24 16:47:06

Local clock offset: 3.445 ms

Remote clock offset: 2.827 ms

Below is generated by plot.py at 2018-07-24 20:45:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 464.37 Mbit/s

95th percentile per-packet one-way delay: 63.438 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 282.81 Mbit/s

95th percentile per-packet one-way delay: 66.357 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 246.95 Mbit/s

95th percentile per-packet one-way delay: 52.456 ms

Loss rate: 0.01%

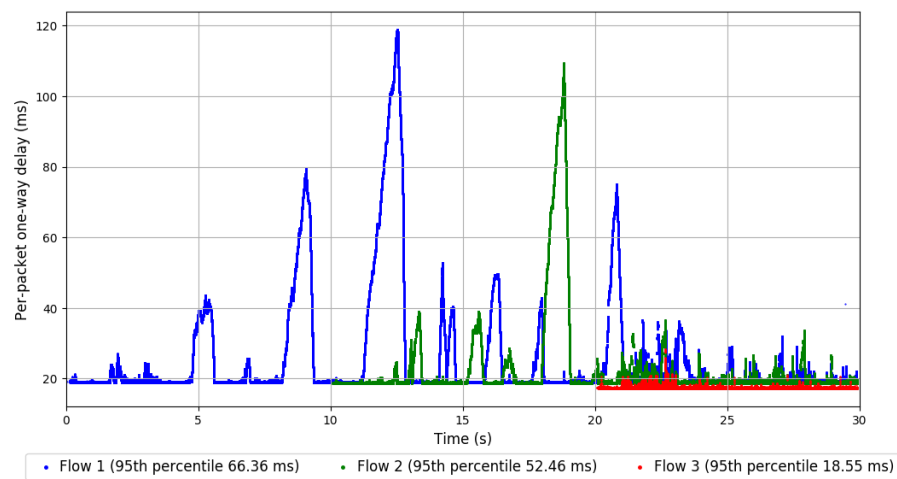
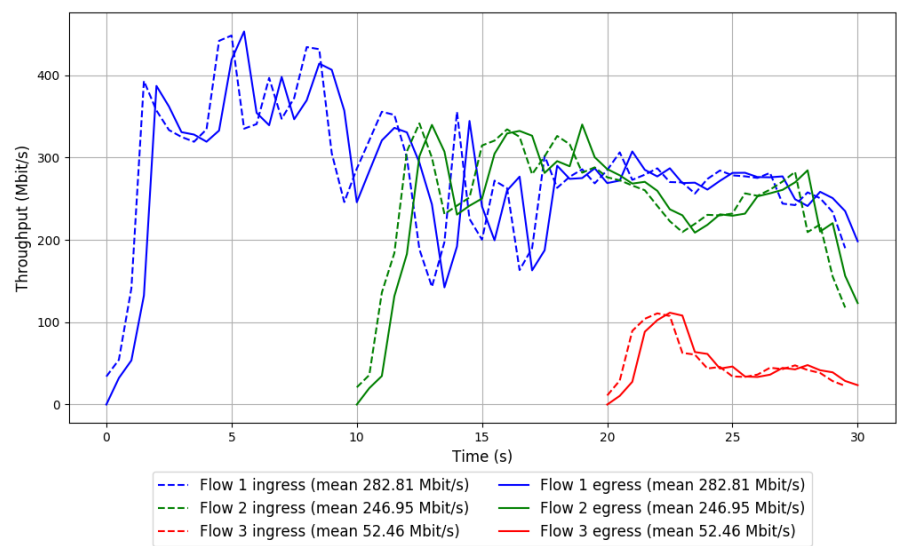
-- Flow 3:

Average throughput: 52.46 Mbit/s

95th percentile per-packet one-way delay: 18.553 ms

Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-24 17:14:00

End at: 2018-07-24 17:14:30

Local clock offset: 3.508 ms

Remote clock offset: 2.759 ms

Below is generated by plot.py at 2018-07-24 20:53:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 495.35 Mbit/s

95th percentile per-packet one-way delay: 195.908 ms

Loss rate: 2.37%

-- Flow 1:

Average throughput: 324.09 Mbit/s

95th percentile per-packet one-way delay: 190.677 ms

Loss rate: 1.86%

-- Flow 2:

Average throughput: 219.20 Mbit/s

95th percentile per-packet one-way delay: 221.053 ms

Loss rate: 3.87%

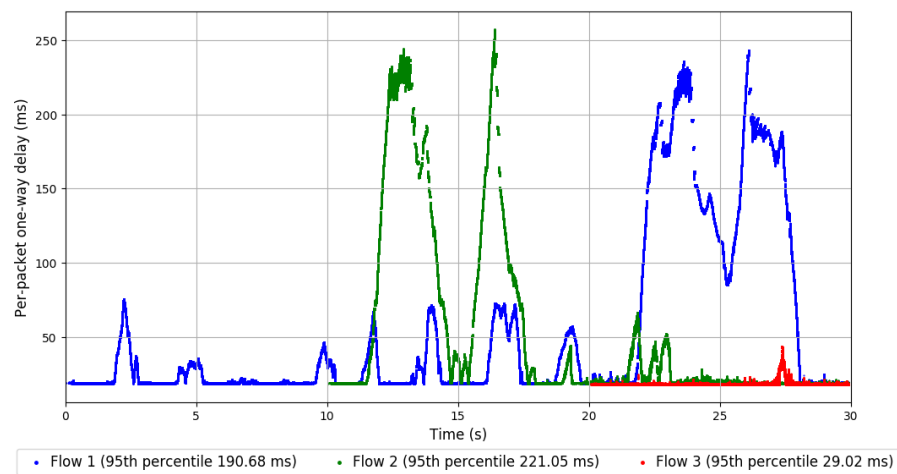
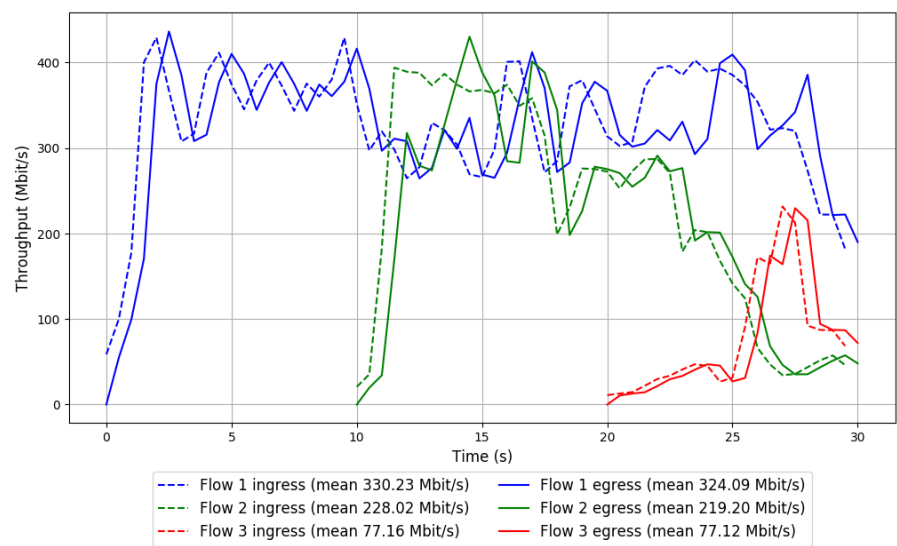
-- Flow 3:

Average throughput: 77.12 Mbit/s

95th percentile per-packet one-way delay: 29.023 ms

Loss rate: 0.04%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-24 17:41:27

End at: 2018-07-24 17:41:57

Local clock offset: 3.256 ms

Remote clock offset: 2.53 ms

Below is generated by plot.py at 2018-07-24 20:53:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 480.06 Mbit/s

95th percentile per-packet one-way delay: 144.317 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 290.37 Mbit/s

95th percentile per-packet one-way delay: 177.395 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 232.49 Mbit/s

95th percentile per-packet one-way delay: 139.233 ms

Loss rate: 0.00%

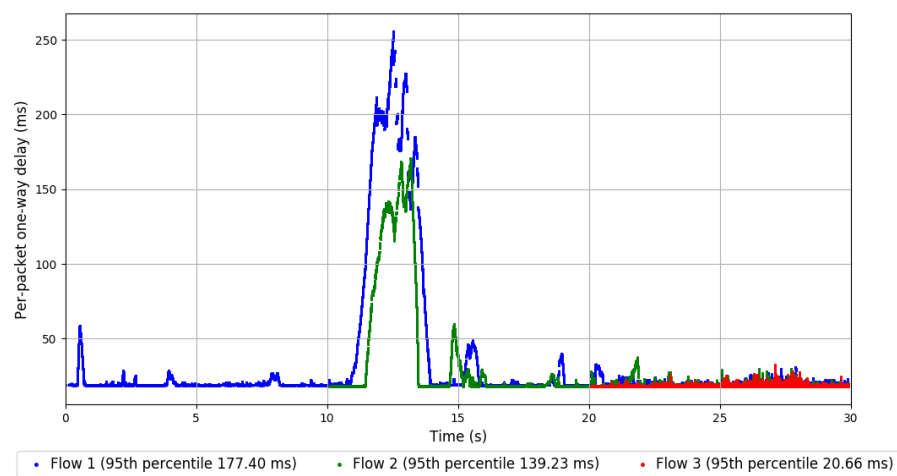
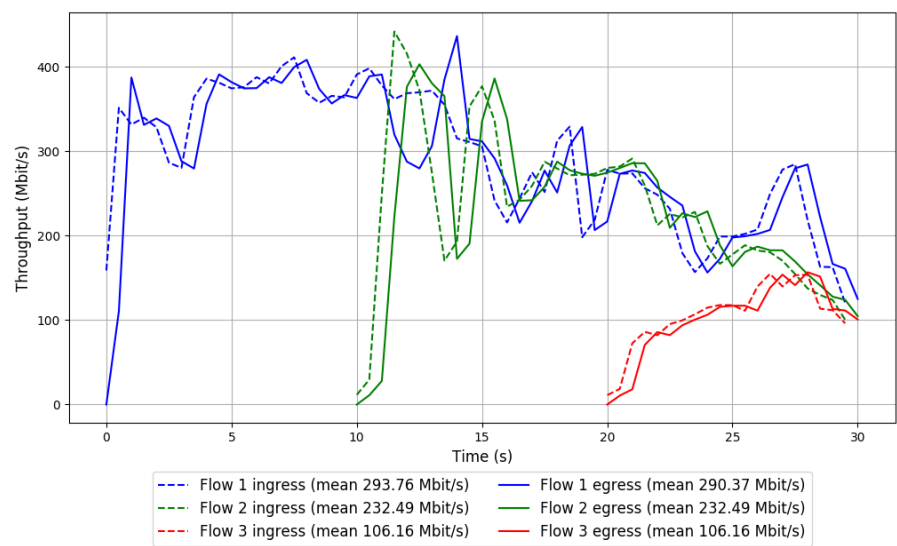
-- Flow 3:

Average throughput: 106.16 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-24 18:08:30

End at: 2018-07-24 18:09:00

Local clock offset: 3.227 ms

Remote clock offset: 2.218 ms

Below is generated by plot.py at 2018-07-24 20:53:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 471.66 Mbit/s

95th percentile per-packet one-way delay: 78.989 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 296.31 Mbit/s

95th percentile per-packet one-way delay: 54.067 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 225.57 Mbit/s

95th percentile per-packet one-way delay: 164.468 ms

Loss rate: 1.29%

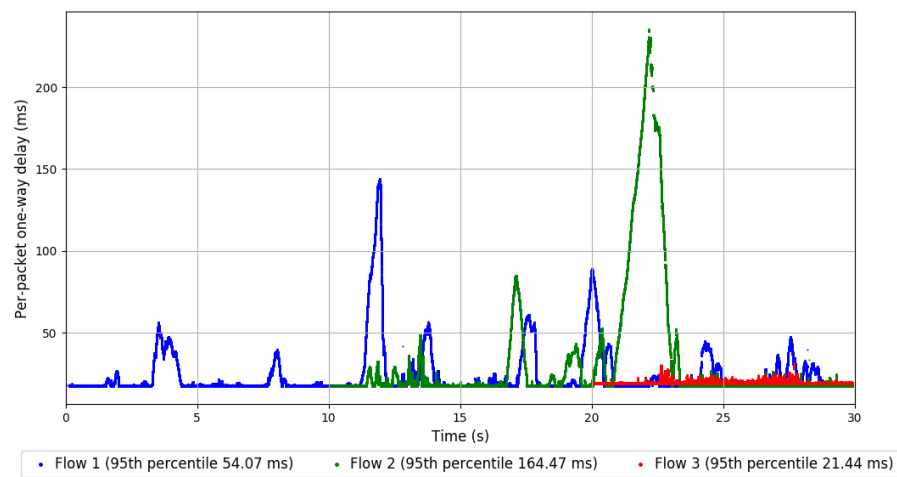
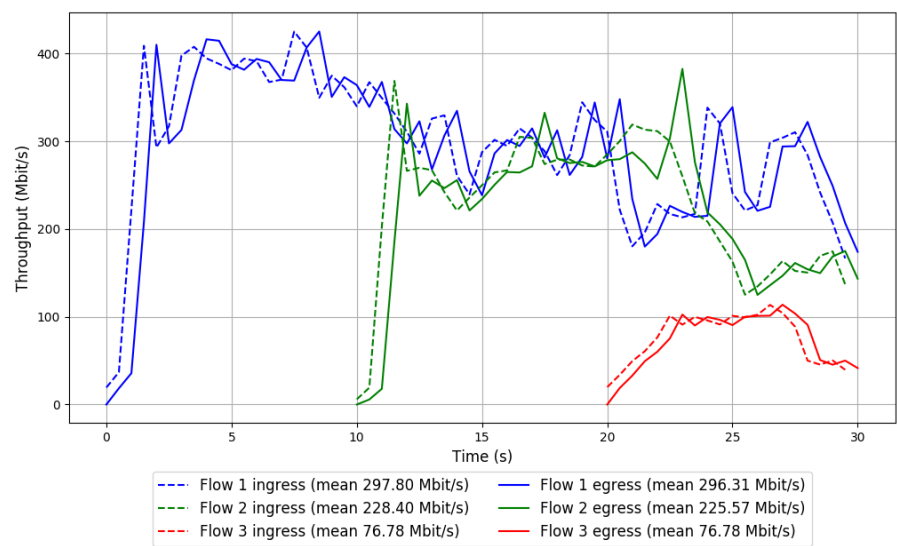
-- Flow 3:

Average throughput: 76.78 Mbit/s

95th percentile per-packet one-way delay: 21.443 ms

Loss rate: 0.01%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-24 18:35:38

End at: 2018-07-24 18:36:08

Local clock offset: 3.691 ms

Remote clock offset: 1.924 ms

Below is generated by plot.py at 2018-07-24 20:53:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 466.01 Mbit/s

95th percentile per-packet one-way delay: 145.457 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 290.15 Mbit/s

95th percentile per-packet one-way delay: 168.417 ms

Loss rate: 1.87%

-- Flow 2:

Average throughput: 244.60 Mbit/s

95th percentile per-packet one-way delay: 48.230 ms

Loss rate: 0.64%

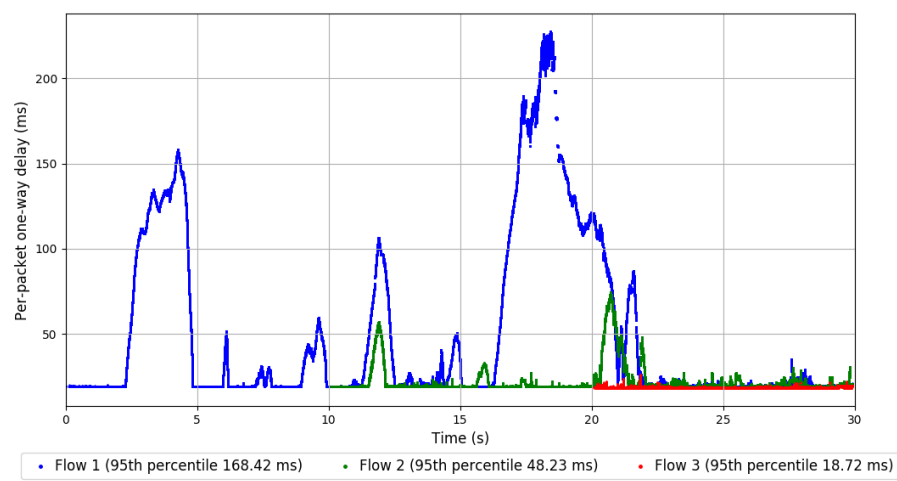
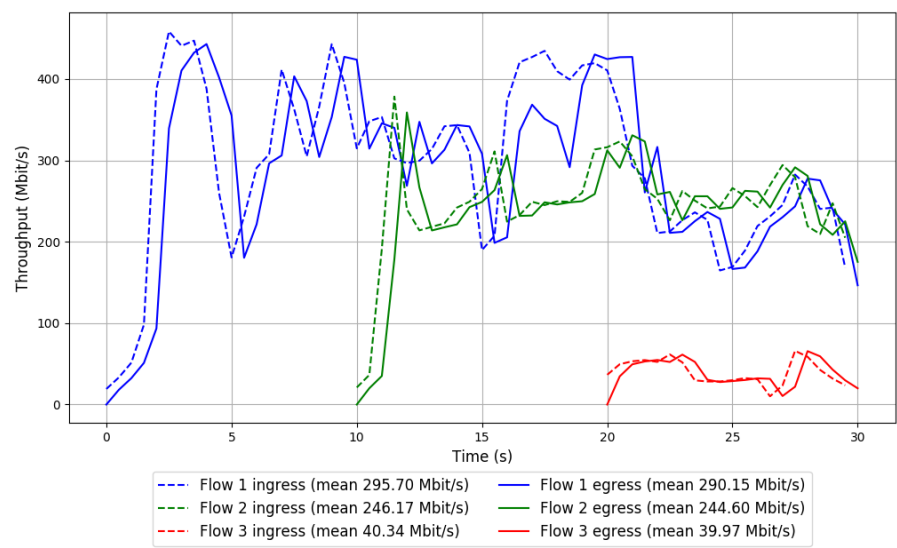
-- Flow 3:

Average throughput: 39.97 Mbit/s

95th percentile per-packet one-way delay: 18.717 ms

Loss rate: 0.92%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-24 14:33:52

End at: 2018-07-24 14:34:22

Local clock offset: 3.662 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2018-07-24 20:53:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.64 Mbit/s

95th percentile per-packet one-way delay: 18.826 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 18.727 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 18.844 ms

Loss rate: 0.00%

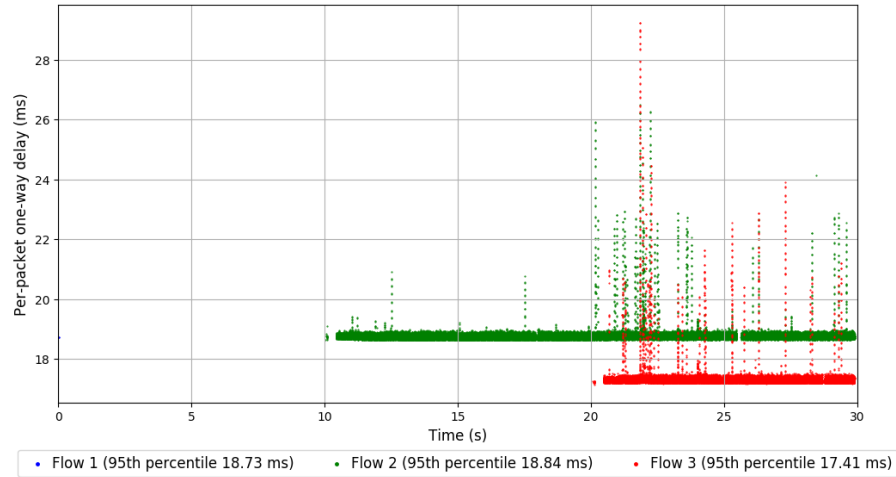
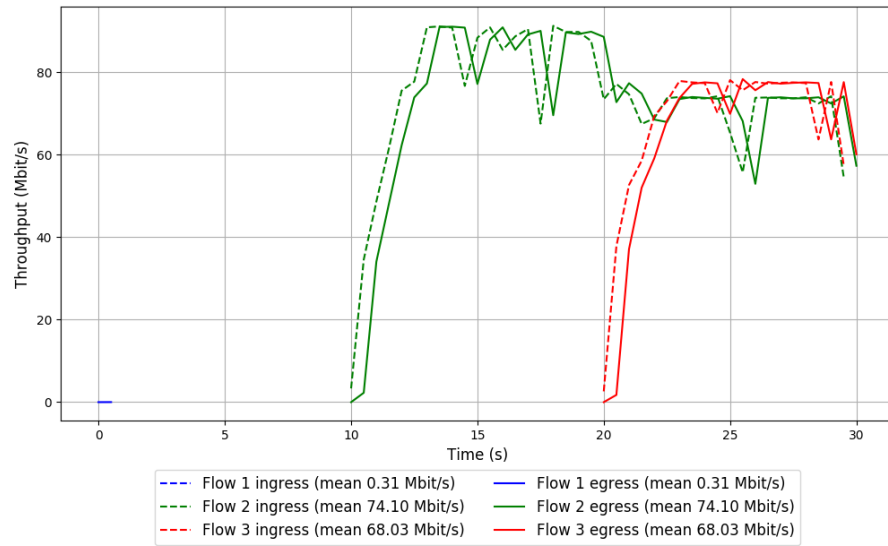
-- Flow 3:

Average throughput: 68.03 Mbit/s

95th percentile per-packet one-way delay: 17.405 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-24 15:00:58

End at: 2018-07-24 15:01:28

Local clock offset: 4.019 ms

Remote clock offset: 0.901 ms

Below is generated by plot.py at 2018-07-24 20:53:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.77 Mbit/s

95th percentile per-packet one-way delay: 18.785 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 65.74 Mbit/s

95th percentile per-packet one-way delay: 17.381 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 60.57 Mbit/s

95th percentile per-packet one-way delay: 18.849 ms

Loss rate: 0.12%

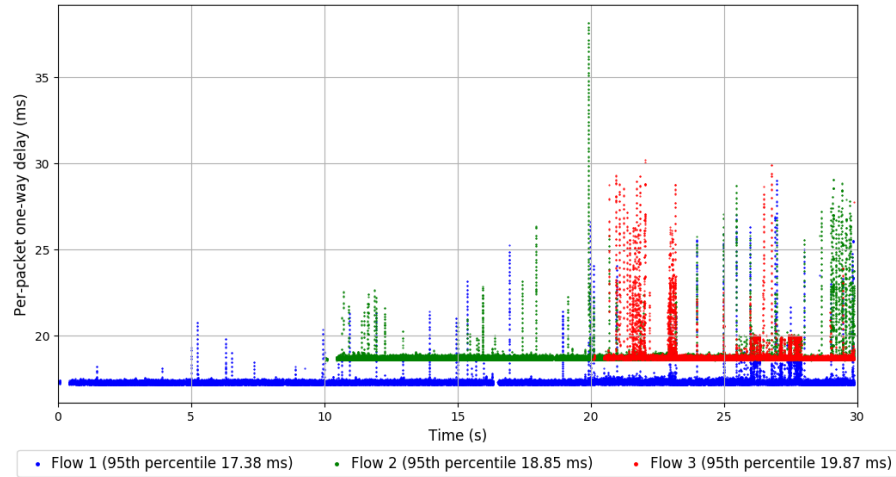
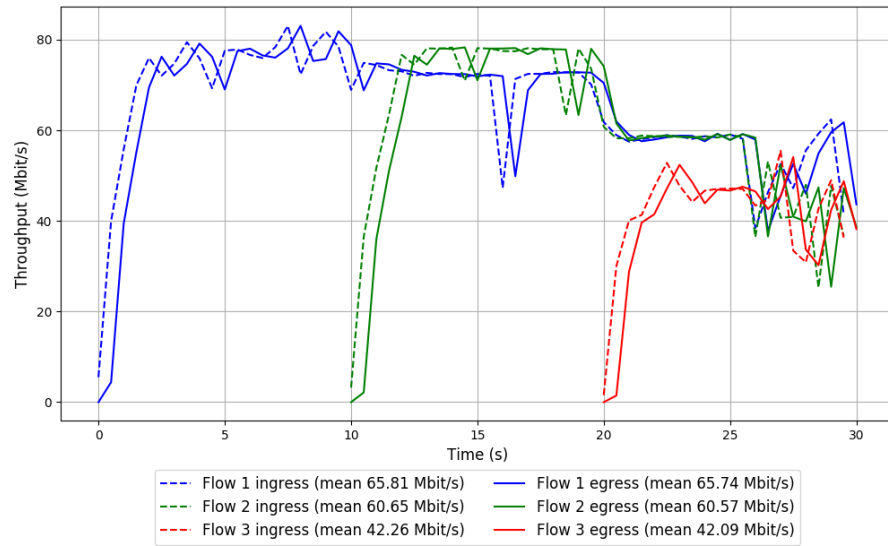
-- Flow 3:

Average throughput: 42.09 Mbit/s

95th percentile per-packet one-way delay: 19.866 ms

Loss rate: 0.33%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-24 15:28:16

End at: 2018-07-24 15:28:46

Local clock offset: 3.352 ms

Remote clock offset: 1.563 ms

Below is generated by plot.py at 2018-07-24 20:53:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.86 Mbit/s

95th percentile per-packet one-way delay: 20.968 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.16 Mbit/s

95th percentile per-packet one-way delay: 19.933 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.23 Mbit/s

95th percentile per-packet one-way delay: 21.355 ms

Loss rate: 0.00%

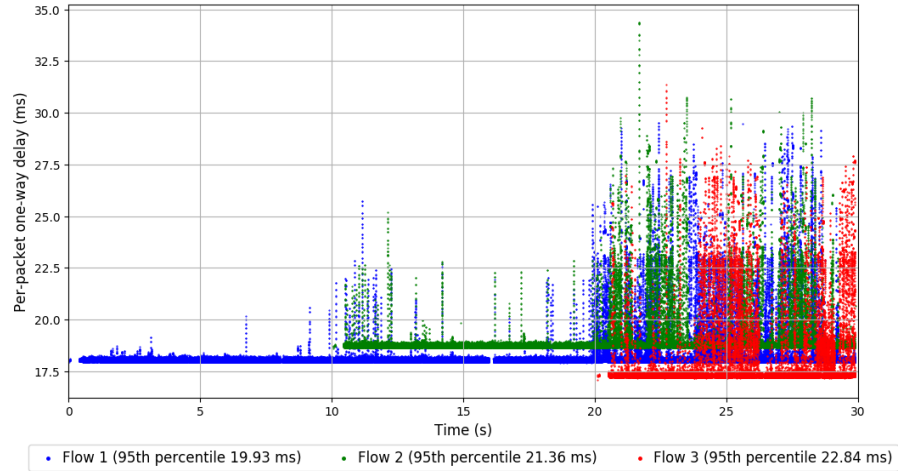
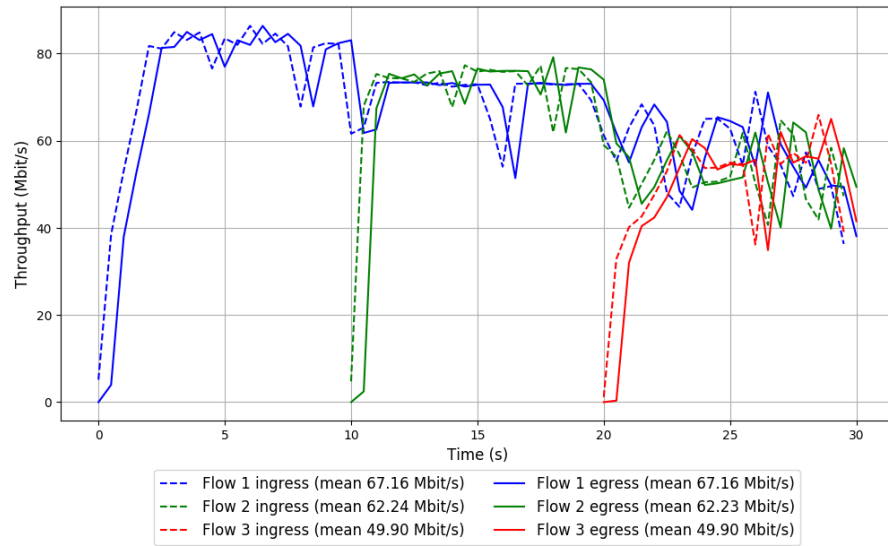
-- Flow 3:

Average throughput: 49.90 Mbit/s

95th percentile per-packet one-way delay: 22.839 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-24 15:55:44

End at: 2018-07-24 15:56:14

Local clock offset: 3.568 ms

Remote clock offset: 2.108 ms

Below is generated by plot.py at 2018-07-24 20:53:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.83 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 70.70 Mbit/s

95th percentile per-packet one-way delay: 19.115 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 58.90 Mbit/s

95th percentile per-packet one-way delay: 17.725 ms

Loss rate: 0.00%

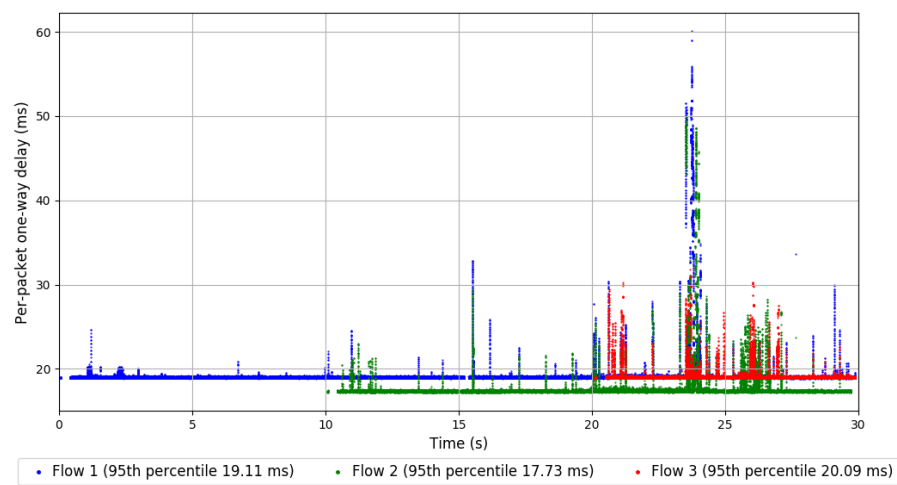
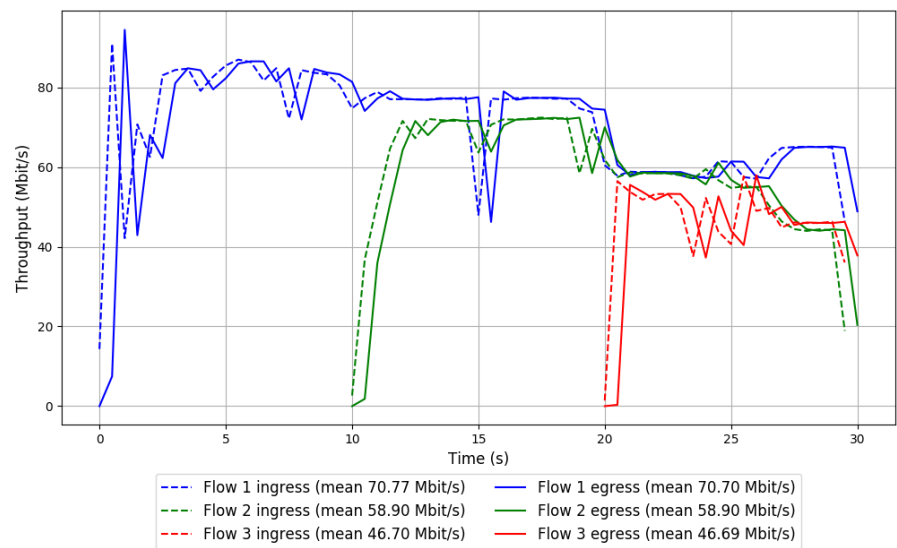
-- Flow 3:

Average throughput: 46.69 Mbit/s

95th percentile per-packet one-way delay: 20.091 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-24 16:23:01

End at: 2018-07-24 16:23:31

Local clock offset: 3.416 ms

Remote clock offset: 2.734 ms

Below is generated by plot.py at 2018-07-24 20:53:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.65 Mbit/s

95th percentile per-packet one-way delay: 21.016 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 68.53 Mbit/s

95th percentile per-packet one-way delay: 19.835 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 19.947 ms

Loss rate: 0.08%

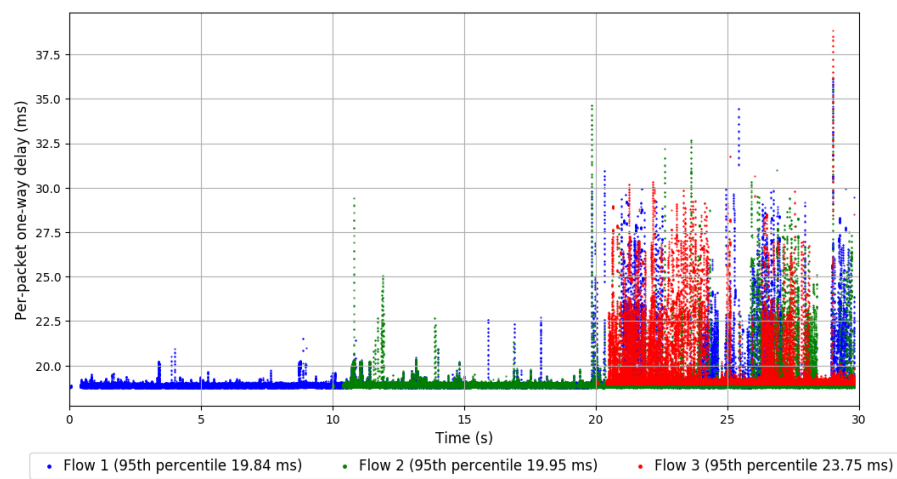
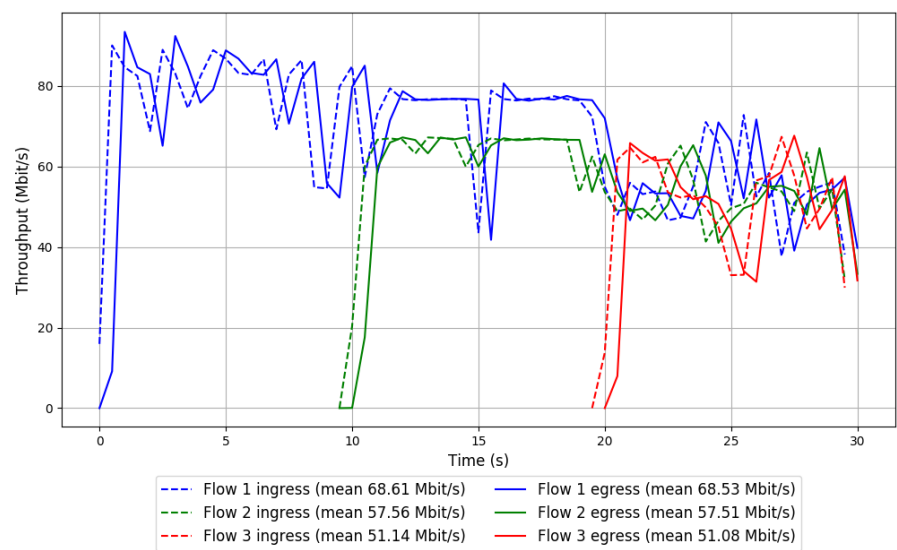
-- Flow 3:

Average throughput: 51.08 Mbit/s

95th percentile per-packet one-way delay: 23.746 ms

Loss rate: 0.02%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-24 16:50:09

End at: 2018-07-24 16:50:39

Local clock offset: 3.541 ms

Remote clock offset: 2.909 ms

Below is generated by plot.py at 2018-07-24 20:53:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.13 Mbit/s

95th percentile per-packet one-way delay: 21.919 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 66.76 Mbit/s

95th percentile per-packet one-way delay: 19.763 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 59.30 Mbit/s

95th percentile per-packet one-way delay: 21.759 ms

Loss rate: 0.01%

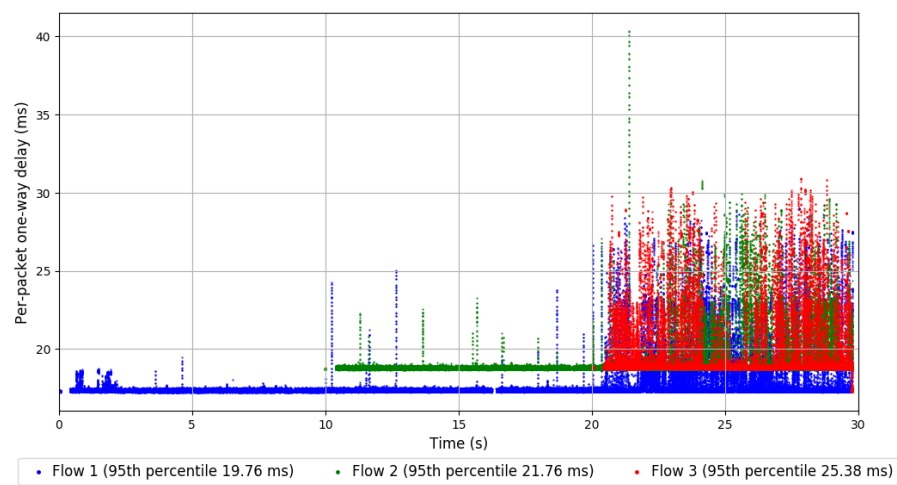
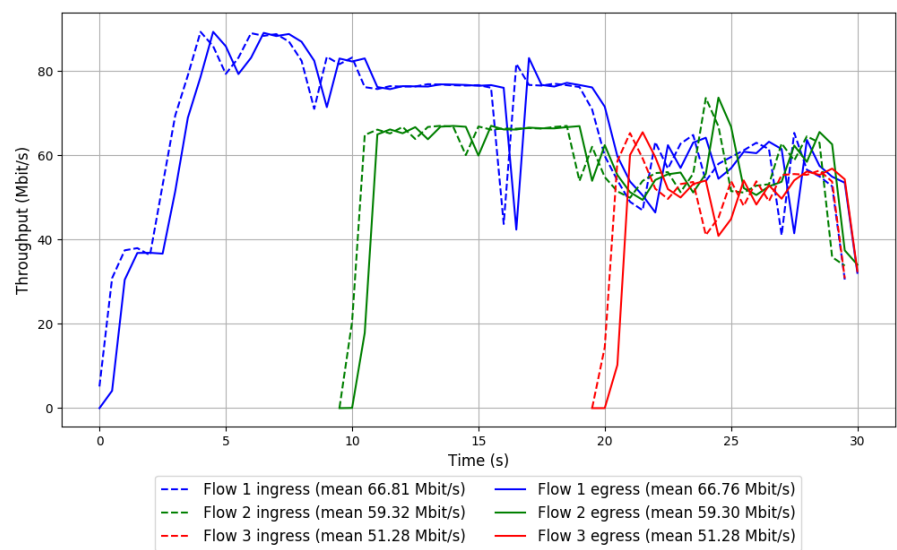
-- Flow 3:

Average throughput: 51.28 Mbit/s

95th percentile per-packet one-way delay: 25.381 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-24 17:17:35

End at: 2018-07-24 17:18:05

Local clock offset: 3.543 ms

Remote clock offset: 2.784 ms

Below is generated by plot.py at 2018-07-24 20:53:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.06 Mbit/s

95th percentile per-packet one-way delay: 21.037 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.47 Mbit/s

95th percentile per-packet one-way delay: 20.158 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.65 Mbit/s

95th percentile per-packet one-way delay: 20.622 ms

Loss rate: 0.00%

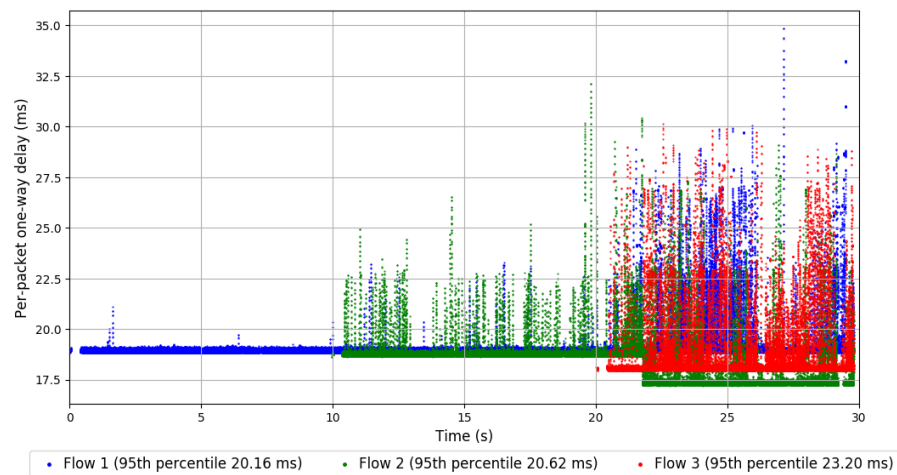
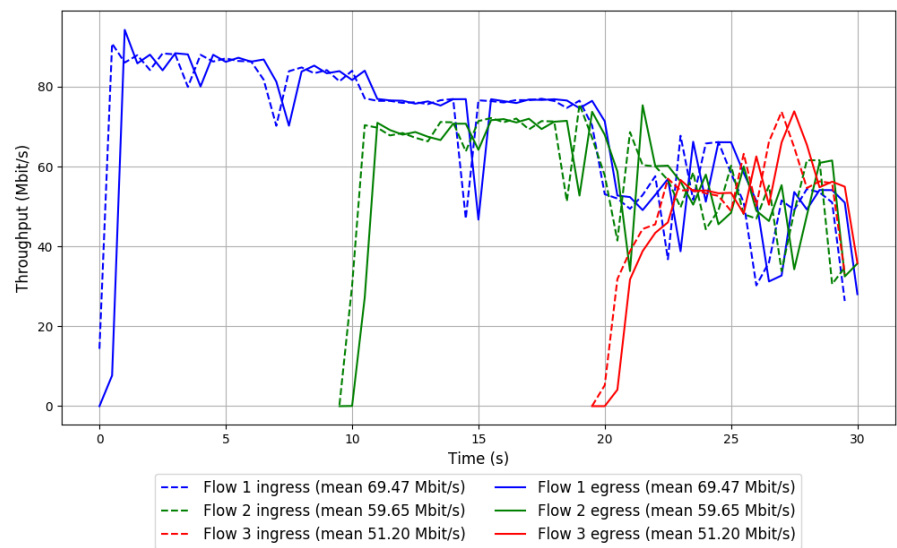
-- Flow 3:

Average throughput: 51.20 Mbit/s

95th percentile per-packet one-way delay: 23.205 ms

Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-24 17:45:03

End at: 2018-07-24 17:45:33

Local clock offset: 3.232 ms

Remote clock offset: 2.477 ms

Below is generated by plot.py at 2018-07-24 20:53:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.68 Mbit/s

95th percentile per-packet one-way delay: 20.052 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.91 Mbit/s

95th percentile per-packet one-way delay: 17.480 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.85 Mbit/s

95th percentile per-packet one-way delay: 22.228 ms

Loss rate: 0.00%

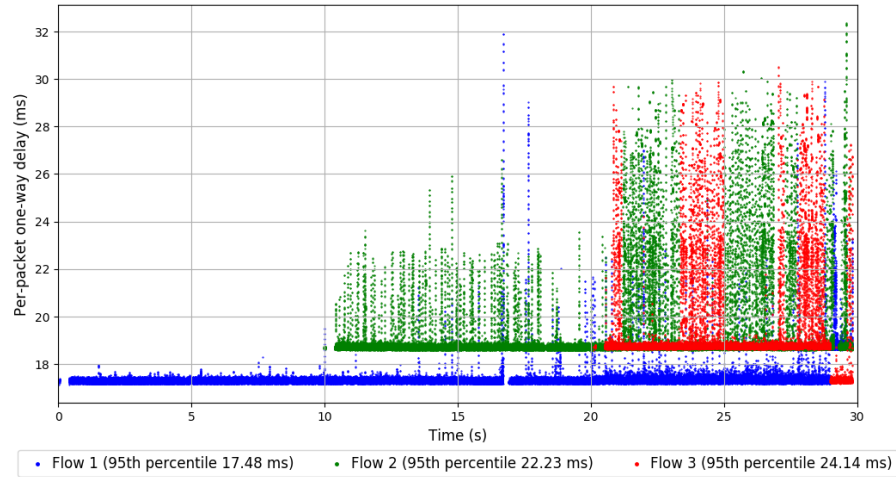
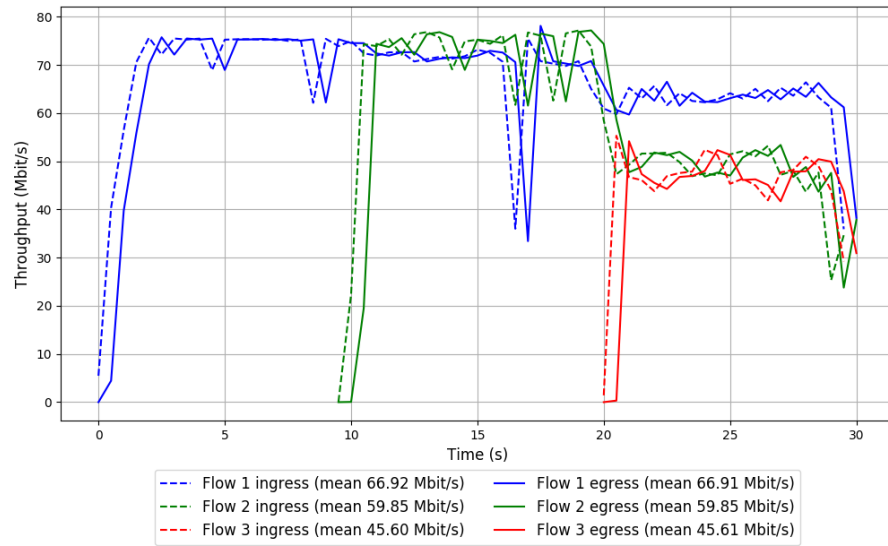
-- Flow 3:

Average throughput: 45.61 Mbit/s

95th percentile per-packet one-way delay: 24.135 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-24 18:12:02

End at: 2018-07-24 18:12:32

Local clock offset: 3.291 ms

Remote clock offset: 2.108 ms

Below is generated by plot.py at 2018-07-24 20:53:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.65 Mbit/s

95th percentile per-packet one-way delay: 19.176 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 67.09 Mbit/s

95th percentile per-packet one-way delay: 18.876 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 60.74 Mbit/s

95th percentile per-packet one-way delay: 19.199 ms

Loss rate: 0.06%

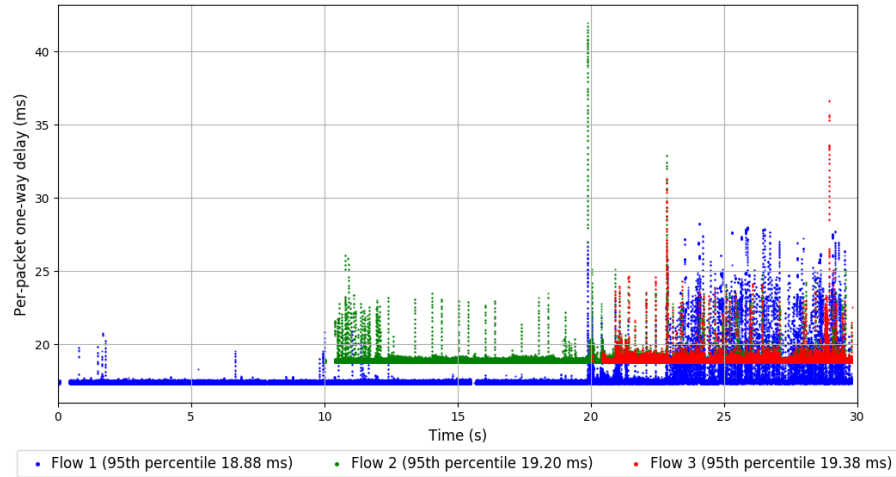
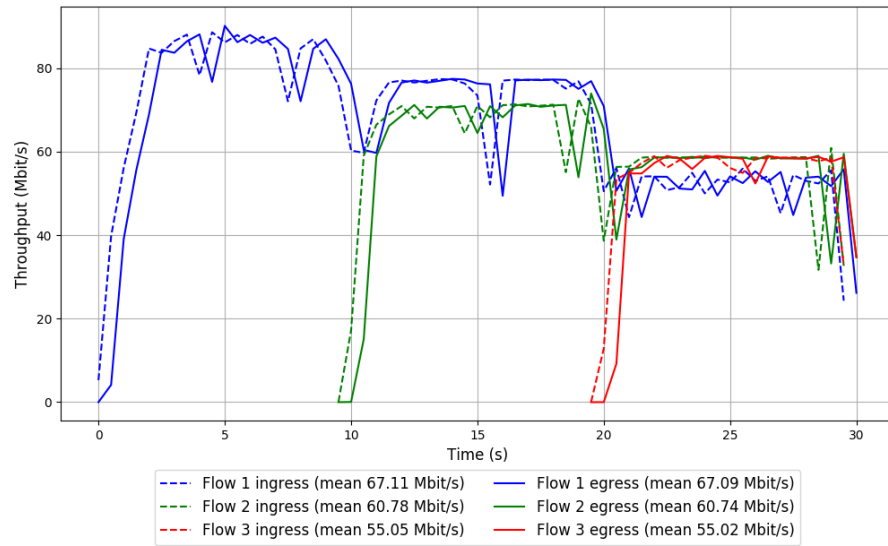
-- Flow 3:

Average throughput: 55.02 Mbit/s

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

Loss rate: 0.03%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-24 18:39:10

End at: 2018-07-24 18:39:40

Local clock offset: 3.705 ms

Remote clock offset: 1.932 ms

Below is generated by plot.py at 2018-07-24 20:53:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.36 Mbit/s

95th percentile per-packet one-way delay: 21.069 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 61.13 Mbit/s

95th percentile per-packet one-way delay: 20.832 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 65.58 Mbit/s

95th percentile per-packet one-way delay: 21.095 ms

Loss rate: 0.01%

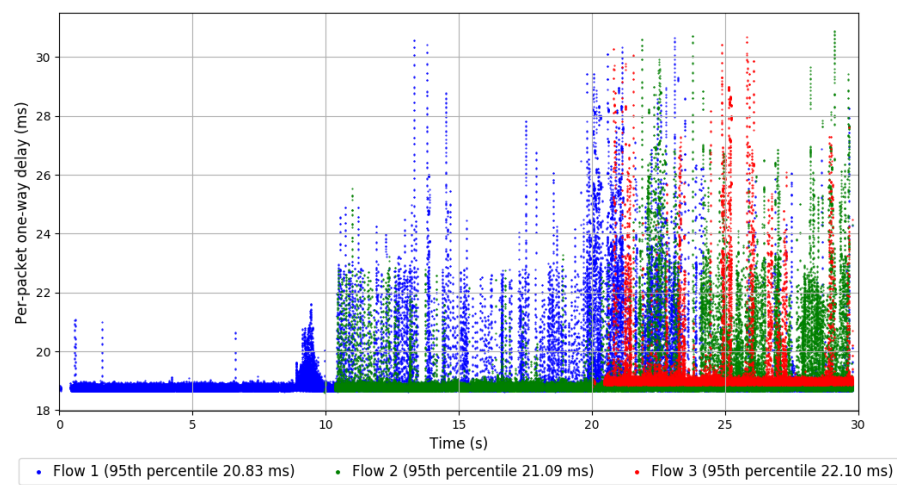
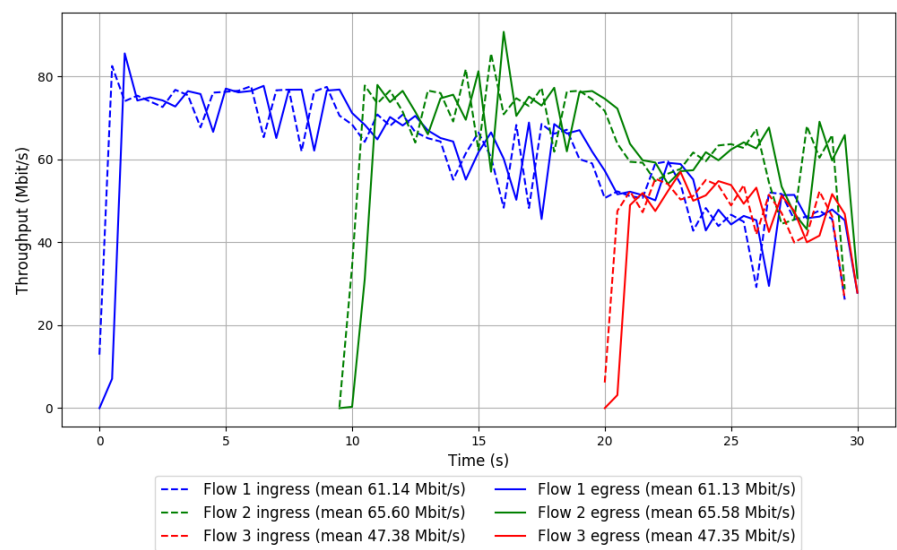
-- Flow 3:

Average throughput: 47.35 Mbit/s

95th percentile per-packet one-way delay: 22.103 ms

Loss rate: 0.01%

Run 10: Report of QUIC Cubic — Data Link

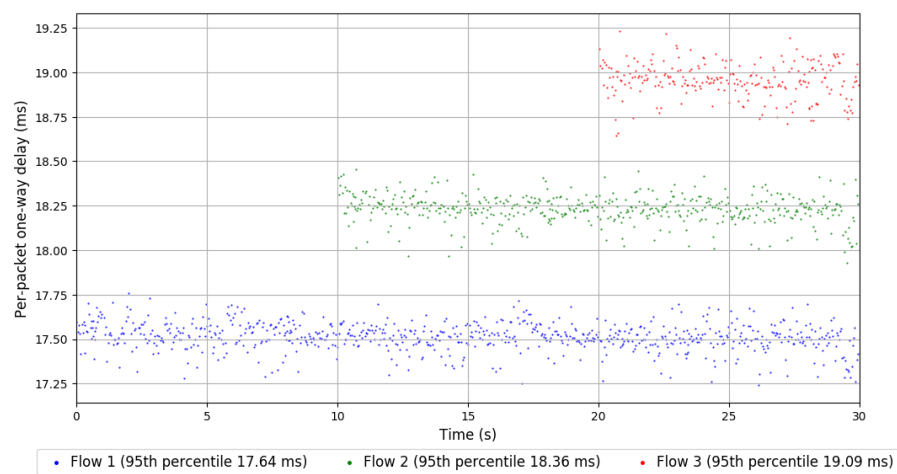
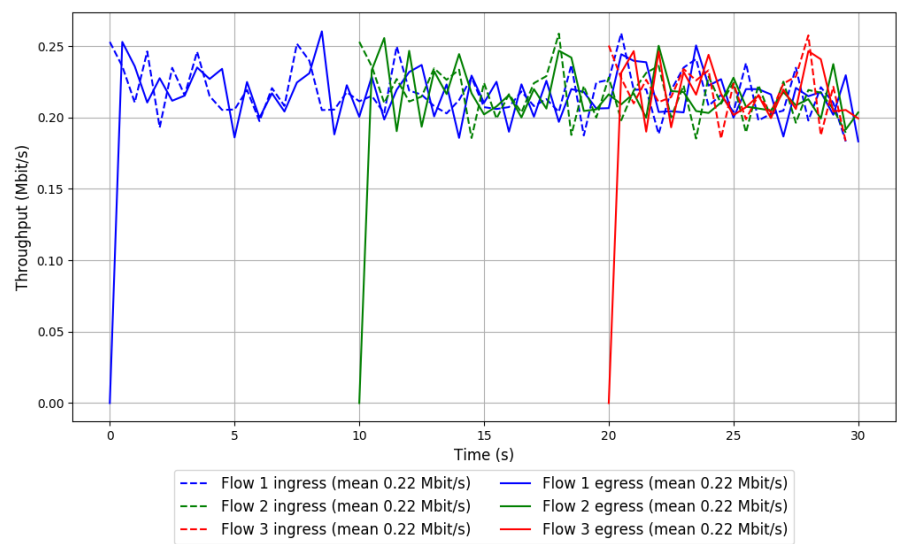


```
Run 1: Statistics of SReAM

Start at: 2018-07-24 14:35:12
End at: 2018-07-24 14:35:42
Local clock offset: 3.694 ms
Remote clock offset: 0.22 ms

# Below is generated by plot.py at 2018-07-24 20:53:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.007 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.638 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.355 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.095 ms
Loss rate: 0.00%
```


Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-07-24 15:02:20

End at: 2018-07-24 15:02:50

Local clock offset: 3.945 ms

Remote clock offset: 0.906 ms

Below is generated by plot.py at 2018-07-24 20:53:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.236 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.372 ms

Loss rate: 0.00%

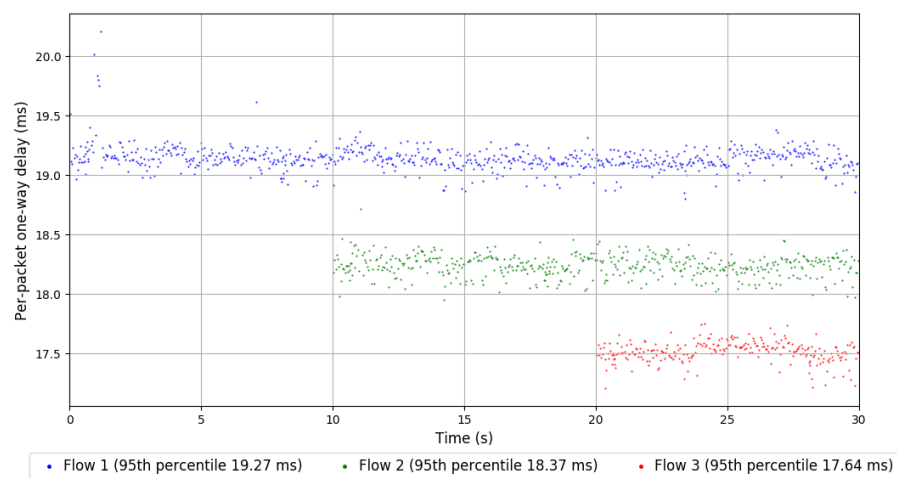
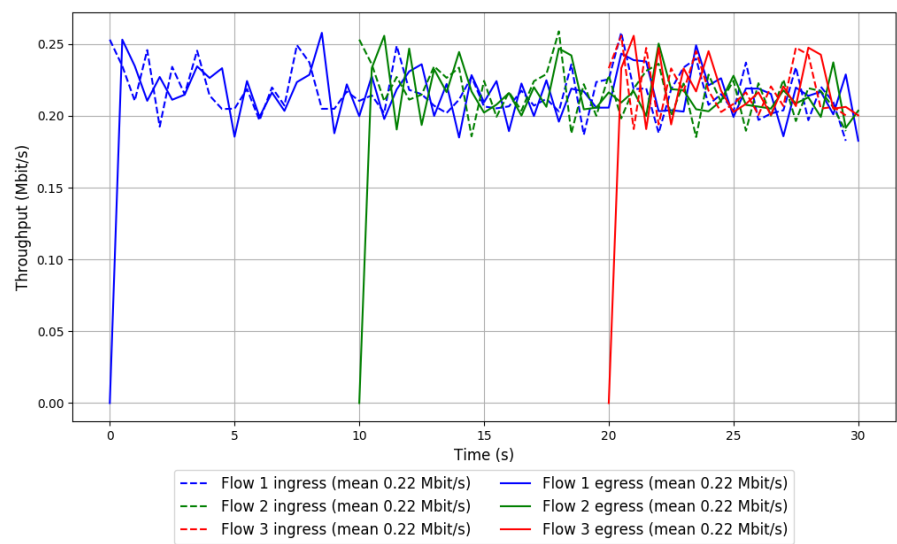
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.637 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-24 15:29:38

End at: 2018-07-24 15:30:08

Local clock offset: 3.35 ms

Remote clock offset: 1.558 ms

Below is generated by plot.py at 2018-07-24 20:53:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 18.440 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 18.457 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.437 ms

Loss rate: 0.00%

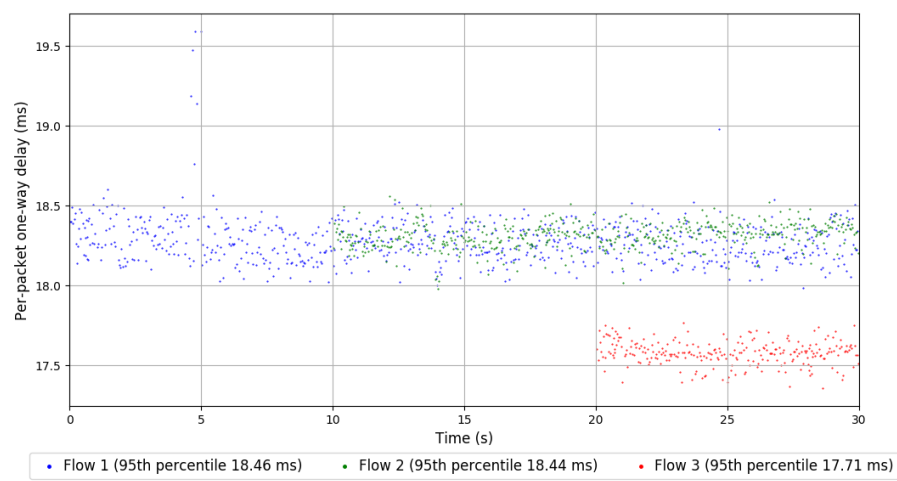
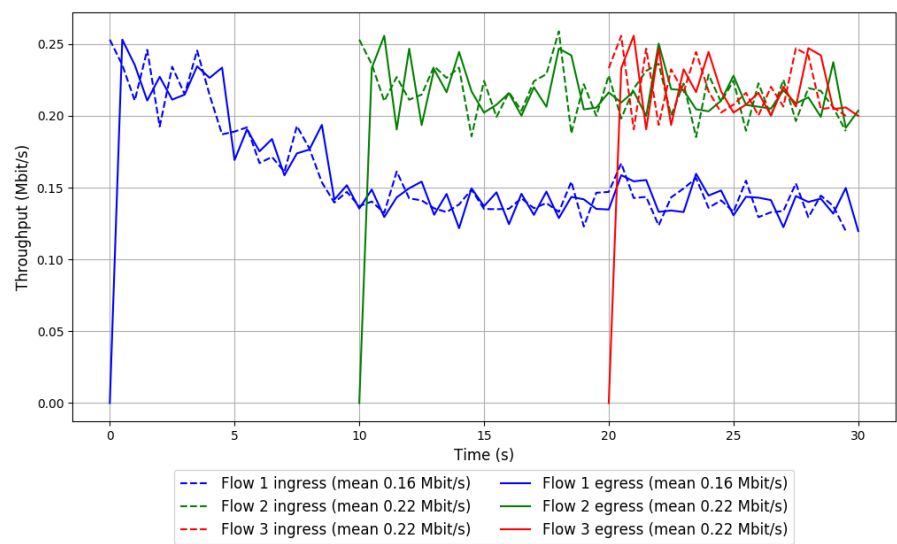
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.708 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-07-24 15:57:07

End at: 2018-07-24 15:57:37

Local clock offset: 3.669 ms

Remote clock offset: 2.215 ms

Below is generated by plot.py at 2018-07-24 20:53:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.411 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.544 ms

Loss rate: 0.00%

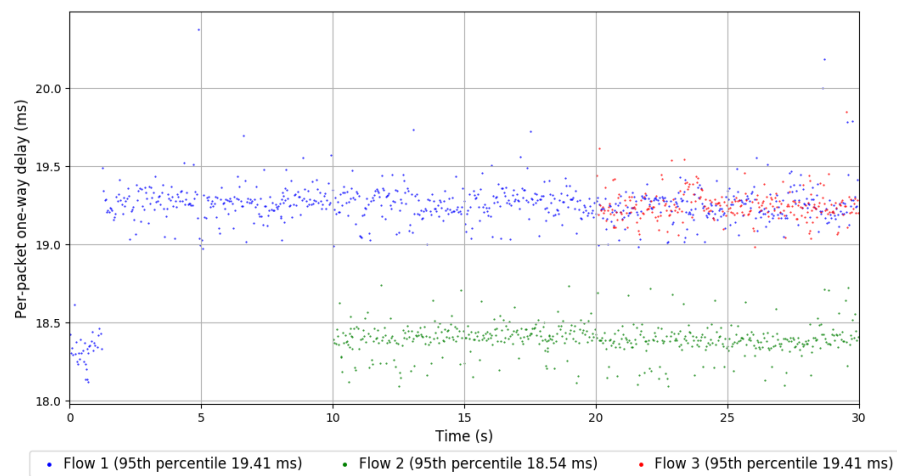
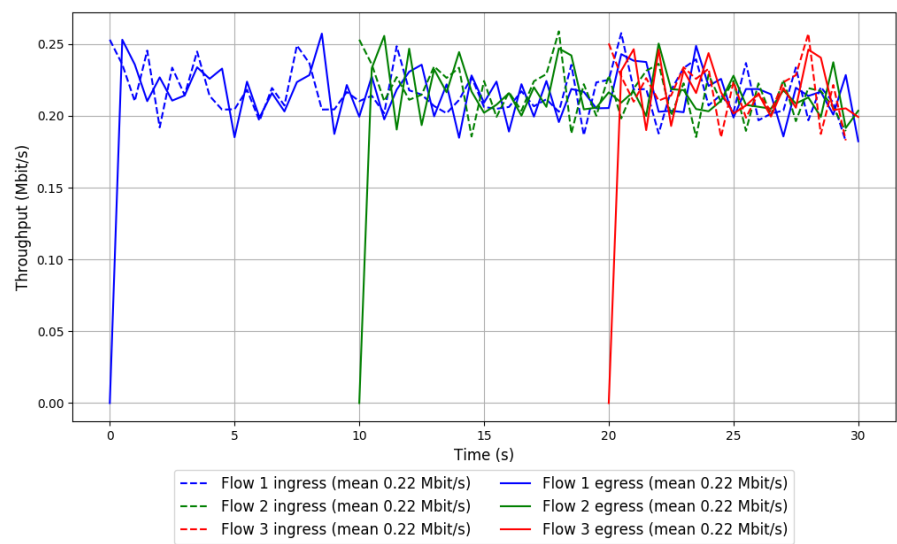
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.412 ms

Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-24 16:24:23

End at: 2018-07-24 16:24:53

Local clock offset: 3.521 ms

Remote clock offset: 2.742 ms

Below is generated by plot.py at 2018-07-24 20:53:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.128 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.163 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.515 ms

Loss rate: 0.00%

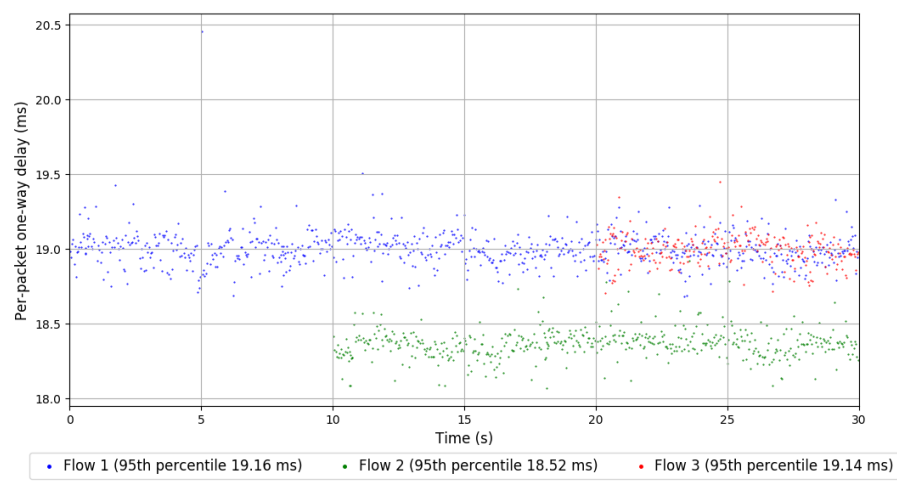
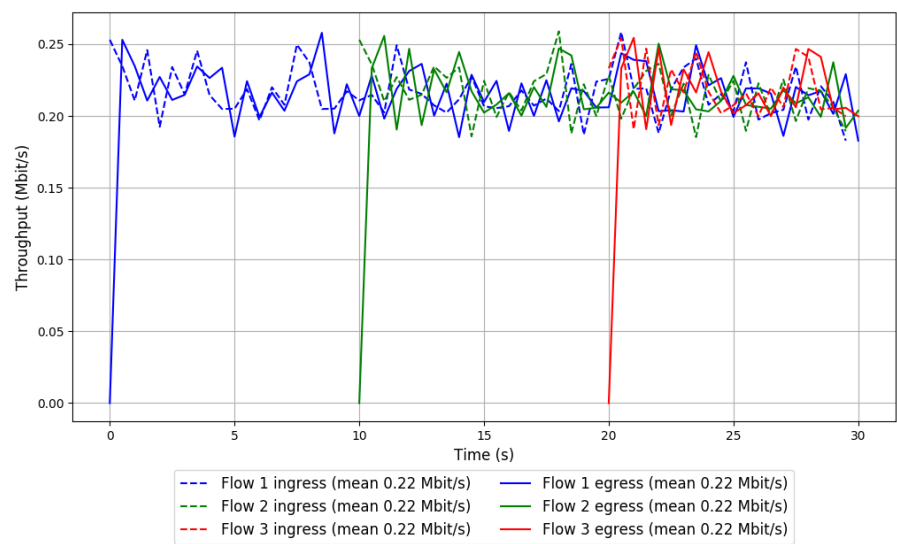
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.135 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-24 16:51:32

End at: 2018-07-24 16:52:02

Local clock offset: 3.442 ms

Remote clock offset: 2.866 ms

Below is generated by plot.py at 2018-07-24 20:53:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 18.601 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.649 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.953 ms

Loss rate: 0.00%

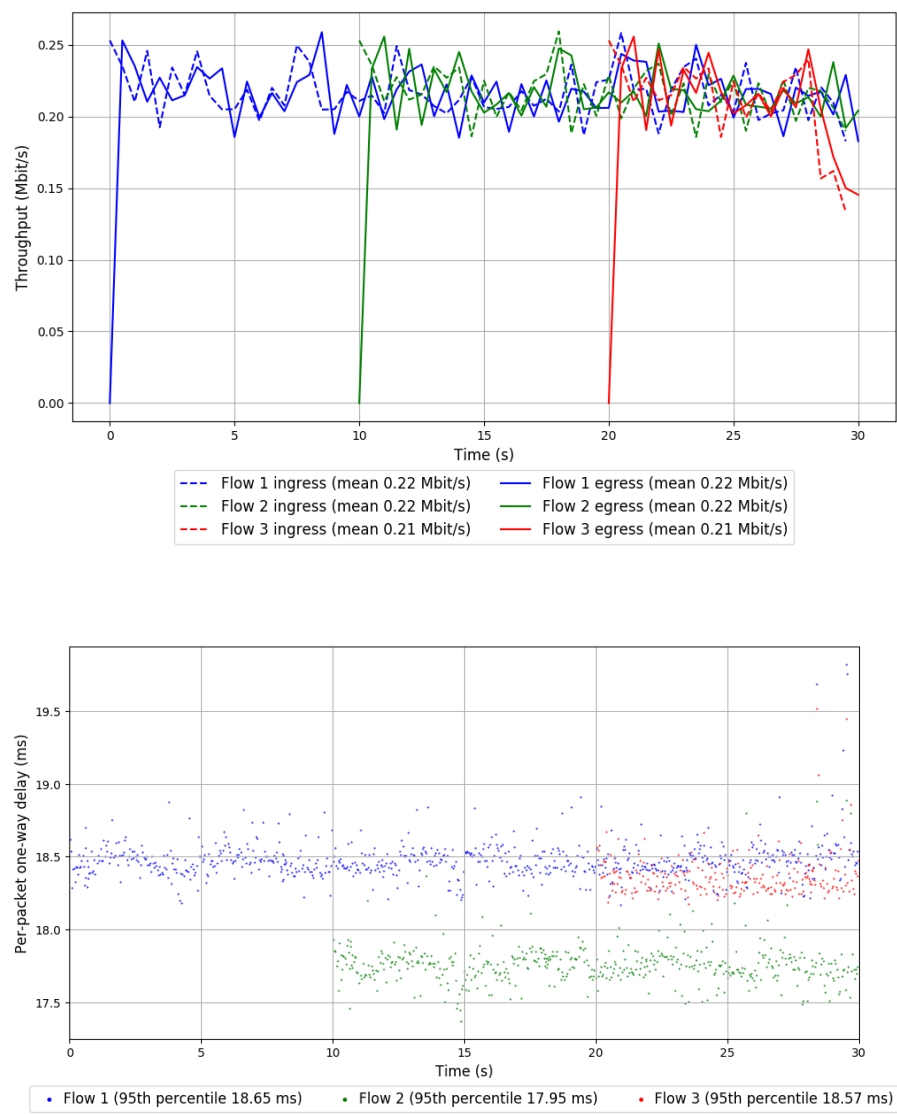
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 18.569 ms

Loss rate: 0.46%

Run 6: Report of SReAM — Data Link

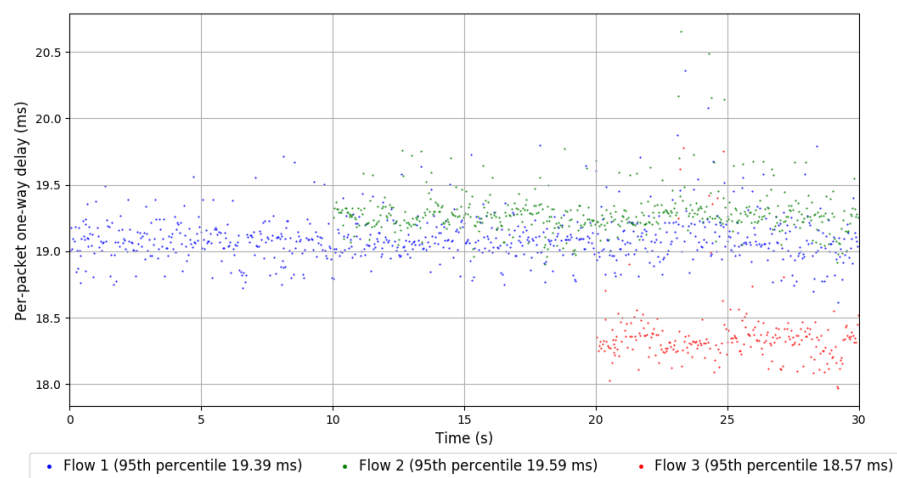
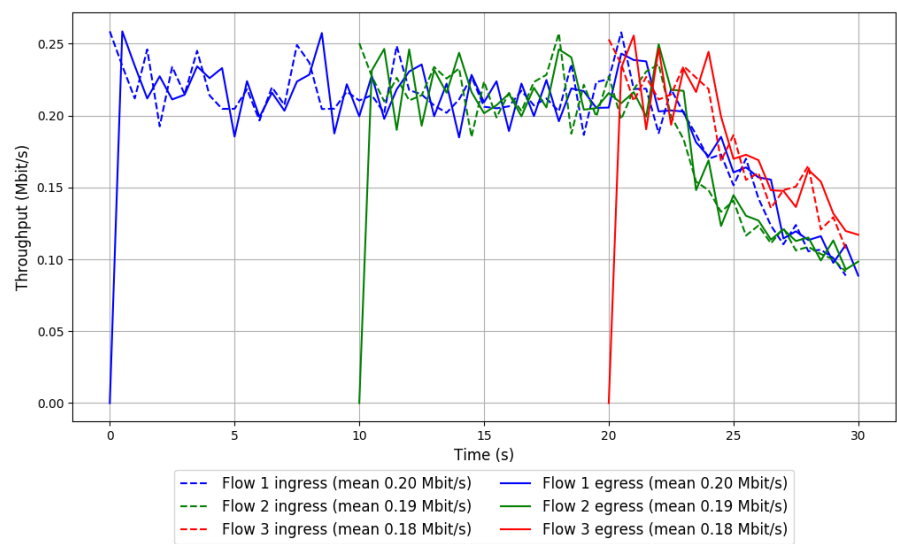


Run 7: Statistics of SCReAM

Start at: 2018-07-24 17:18:58
End at: 2018-07-24 17:19:28
Local clock offset: 3.517 ms
Remote clock offset: 2.79 ms

Below is generated by plot.py at 2018-07-24 20:53:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 19.457 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 19.391 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 19.592 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 18.565 ms
Loss rate: 0.48%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-07-24 17:46:25

End at: 2018-07-24 17:46:55

Local clock offset: 3.214 ms

Remote clock offset: 2.503 ms

Below is generated by plot.py at 2018-07-24 20:53:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 19.357 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 17.902 ms

Loss rate: 0.22%

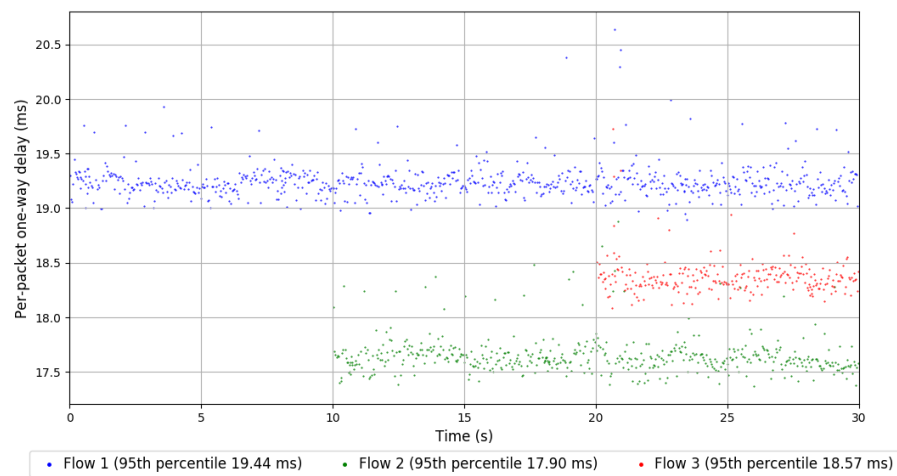
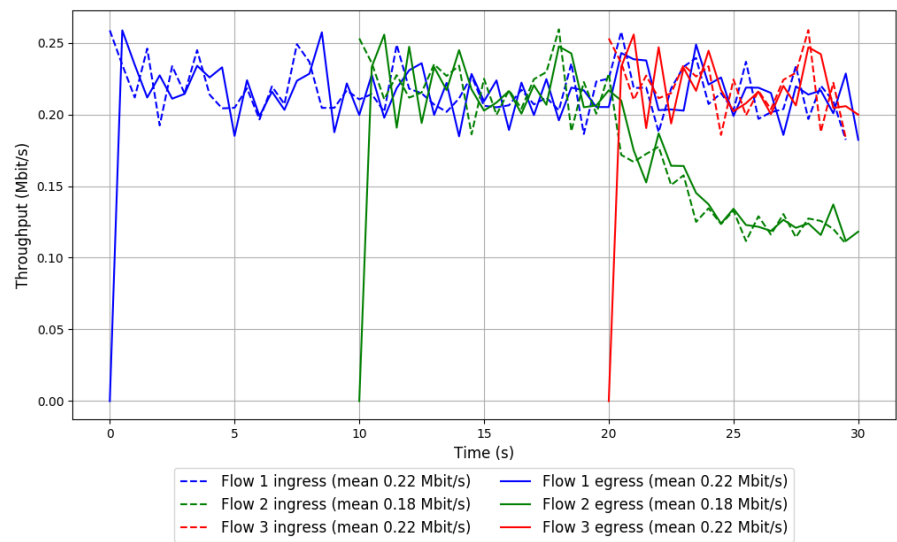
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.565 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-24 18:13:25

End at: 2018-07-24 18:13:55

Local clock offset: 3.378 ms

Remote clock offset: 2.148 ms

Below is generated by plot.py at 2018-07-24 20:53:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.549 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.939 ms

Loss rate: 0.00%

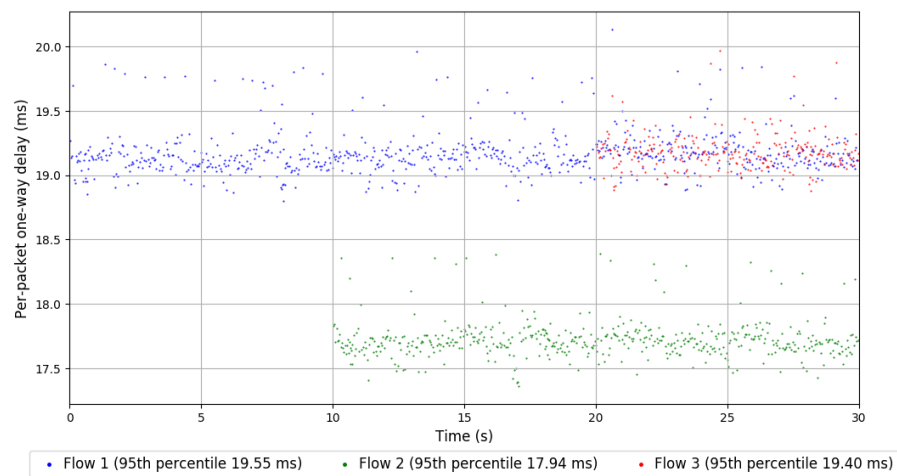
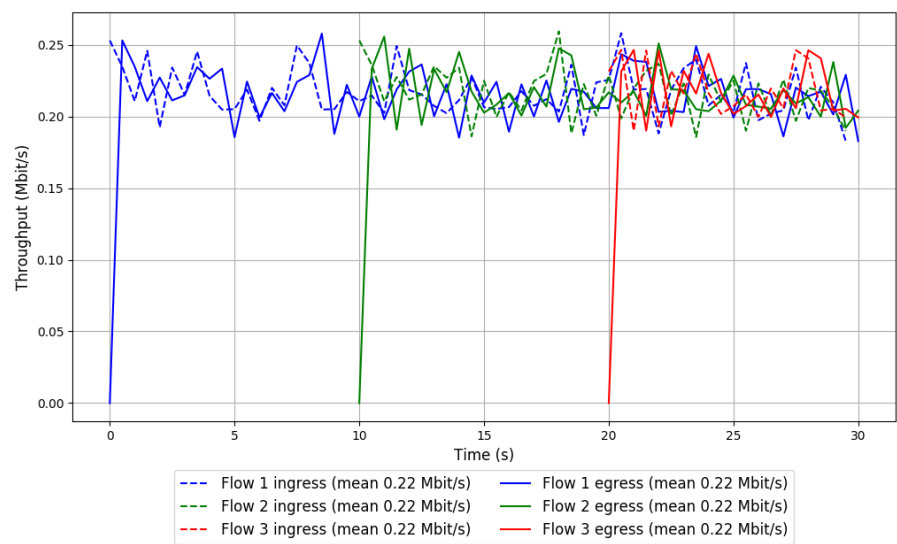
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.402 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-24 18:40:33

End at: 2018-07-24 18:41:03

Local clock offset: 3.688 ms

Remote clock offset: 1.918 ms

Below is generated by plot.py at 2018-07-24 20:53:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 19.383 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 19.335 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 19.400 ms

Loss rate: 0.32%

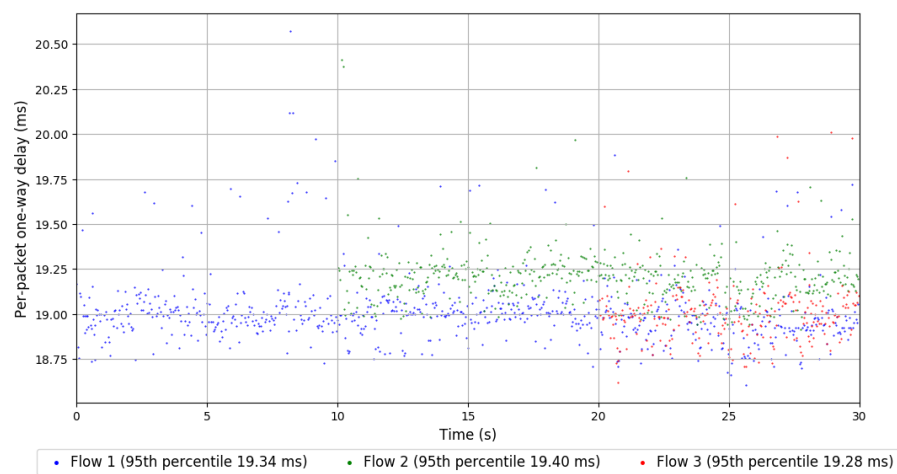
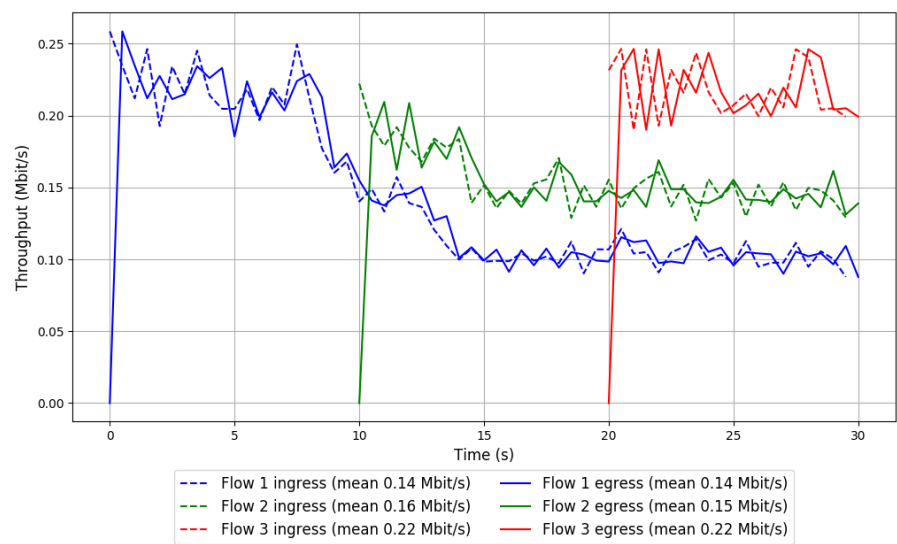
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.280 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

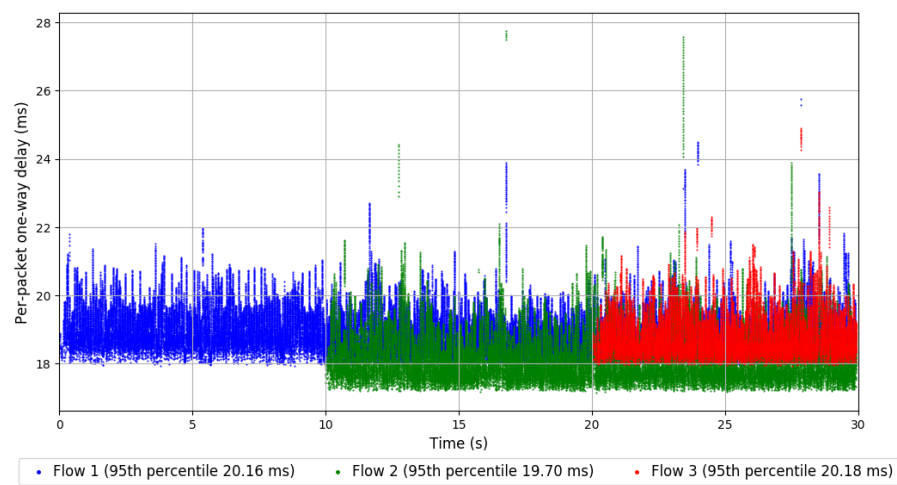
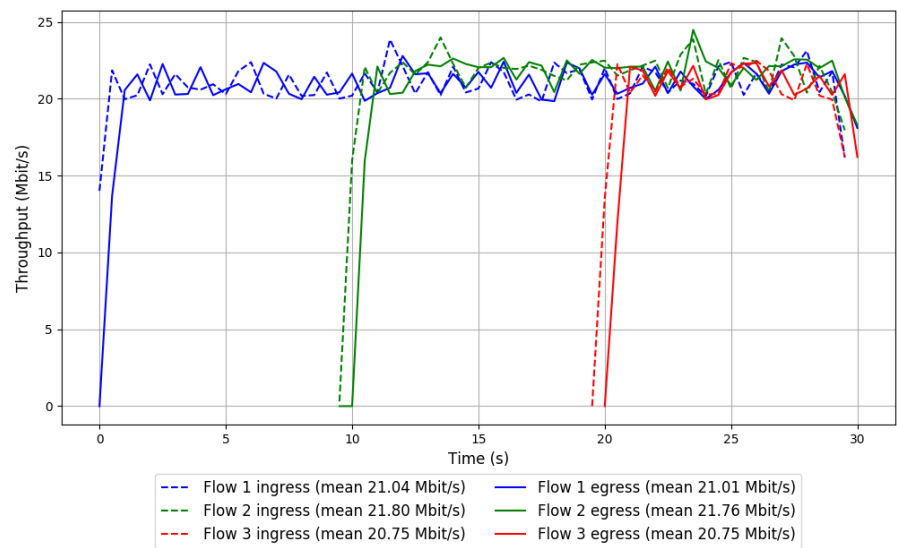


Run 1: Statistics of Sprout

Start at: 2018-07-24 14:27:24
End at: 2018-07-24 14:27:54
Local clock offset: 3.621 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-07-24 20:53:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.36 Mbit/s
95th percentile per-packet one-way delay: 20.060 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 21.01 Mbit/s
95th percentile per-packet one-way delay: 20.164 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 21.76 Mbit/s
95th percentile per-packet one-way delay: 19.699 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 20.75 Mbit/s
95th percentile per-packet one-way delay: 20.184 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-24 14:54:33

End at: 2018-07-24 14:55:03

Local clock offset: 3.97 ms

Remote clock offset: 0.744 ms

Below is generated by plot.py at 2018-07-24 20:53:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.10 Mbit/s

95th percentile per-packet one-way delay: 20.990 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 21.42 Mbit/s

95th percentile per-packet one-way delay: 20.375 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 20.98 Mbit/s

95th percentile per-packet one-way delay: 20.892 ms

Loss rate: 0.15%

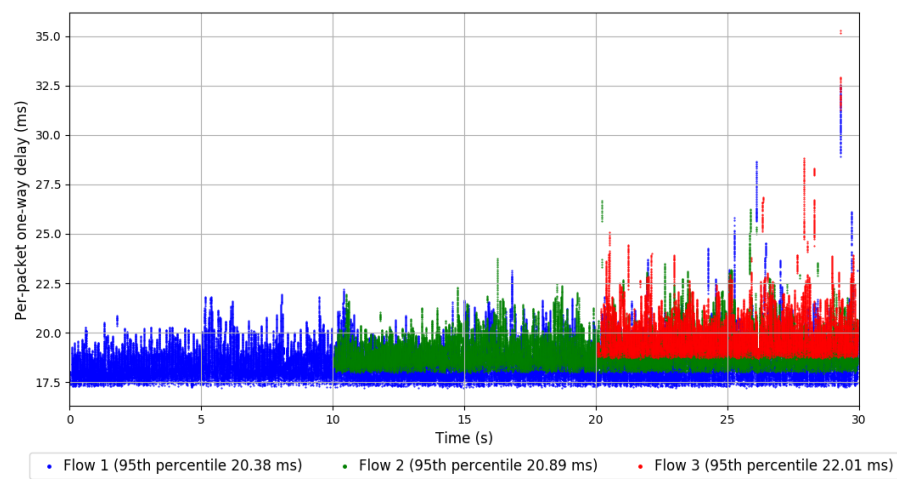
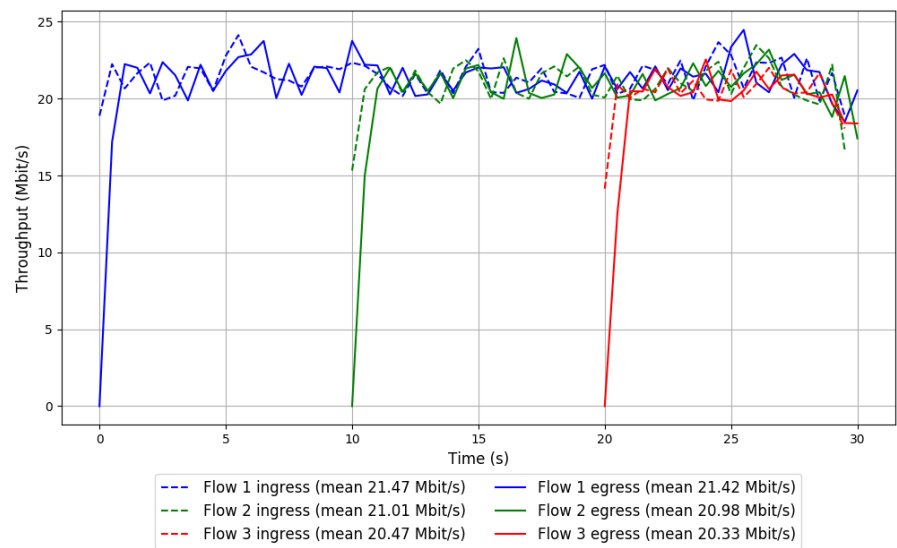
-- Flow 3:

Average throughput: 20.33 Mbit/s

95th percentile per-packet one-way delay: 22.010 ms

Loss rate: 0.67%

Run 2: Report of Sprout — Data Link

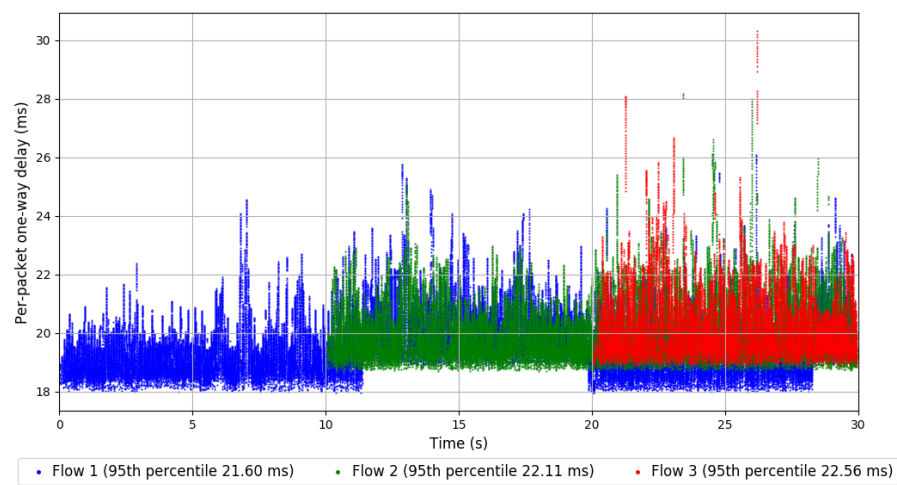
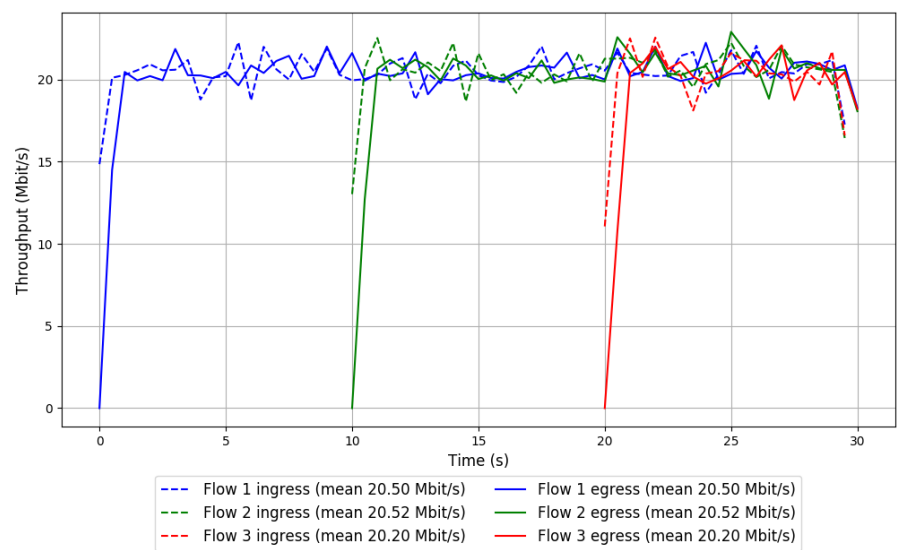


Run 3: Statistics of Sprout

Start at: 2018-07-24 15:21:50
End at: 2018-07-24 15:22:20
Local clock offset: 3.388 ms
Remote clock offset: 1.444 ms

```
# Below is generated by plot.py at 2018-07-24 20:53:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.81 Mbit/s
95th percentile per-packet one-way delay: 22.012 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.50 Mbit/s
95th percentile per-packet one-way delay: 21.599 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.52 Mbit/s
95th percentile per-packet one-way delay: 22.109 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.20 Mbit/s
95th percentile per-packet one-way delay: 22.560 ms
Loss rate: 0.00%
```


Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-24 15:49:16

End at: 2018-07-24 15:49:46

Local clock offset: 3.565 ms

Remote clock offset: 2.024 ms

Below is generated by plot.py at 2018-07-24 20:53:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.64 Mbit/s

95th percentile per-packet one-way delay: 22.119 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 20.20 Mbit/s

95th percentile per-packet one-way delay: 22.159 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 20.34 Mbit/s

95th percentile per-packet one-way delay: 22.339 ms

Loss rate: 0.00%

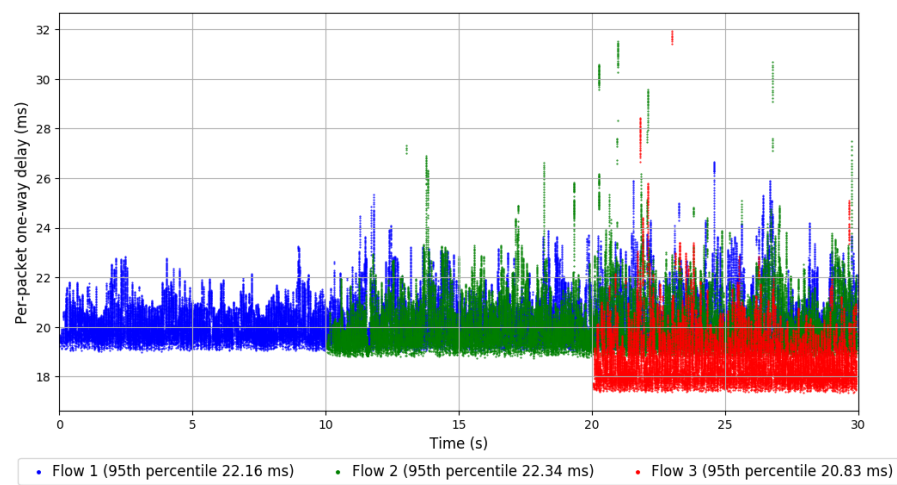
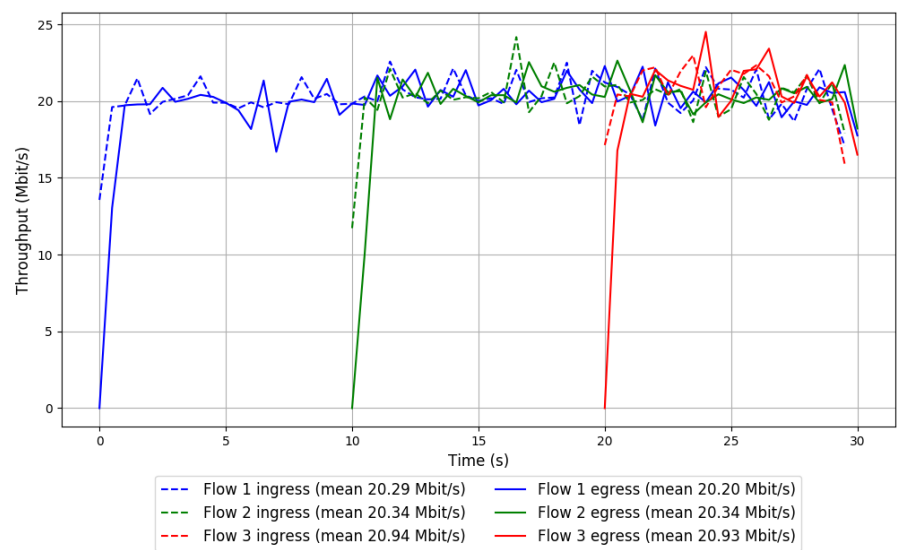
-- Flow 3:

Average throughput: 20.93 Mbit/s

95th percentile per-packet one-way delay: 20.829 ms

Loss rate: 0.03%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-24 16:16:38

End at: 2018-07-24 16:17:08

Local clock offset: 3.434 ms

Remote clock offset: 2.506 ms

Below is generated by plot.py at 2018-07-24 20:53:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.08 Mbit/s

95th percentile per-packet one-way delay: 20.822 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 21.35 Mbit/s

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

Loss rate: 0.12%

-- Flow 2:

Average throughput: 20.63 Mbit/s

95th percentile per-packet one-way delay: 21.290 ms

Loss rate: 0.02%

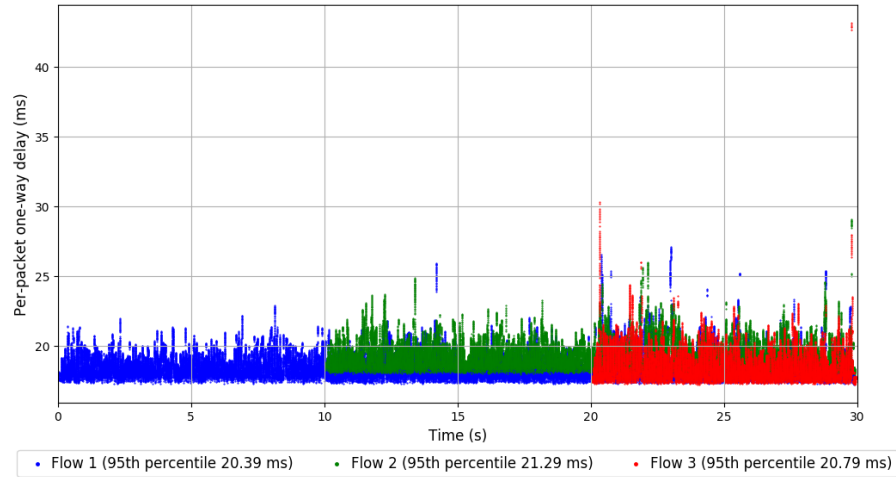
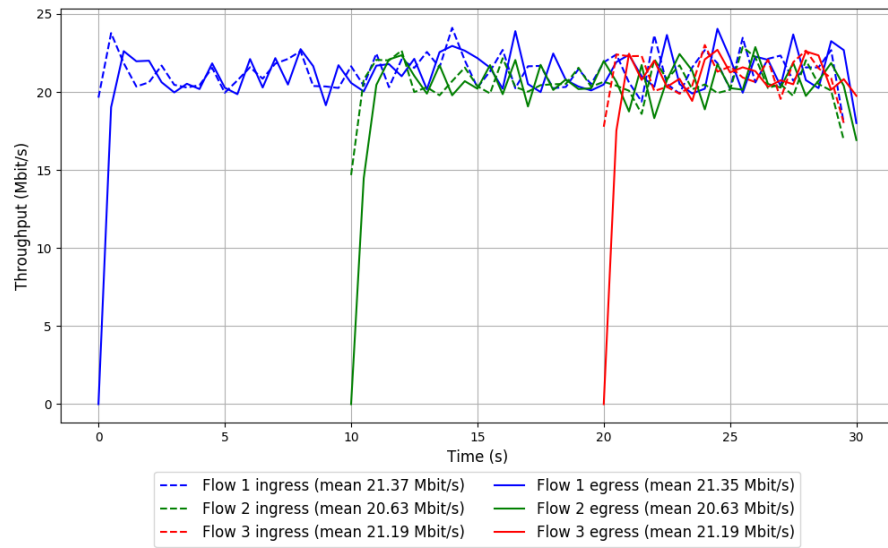
-- Flow 3:

Average throughput: 21.19 Mbit/s

95th percentile per-packet one-way delay: 20.786 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

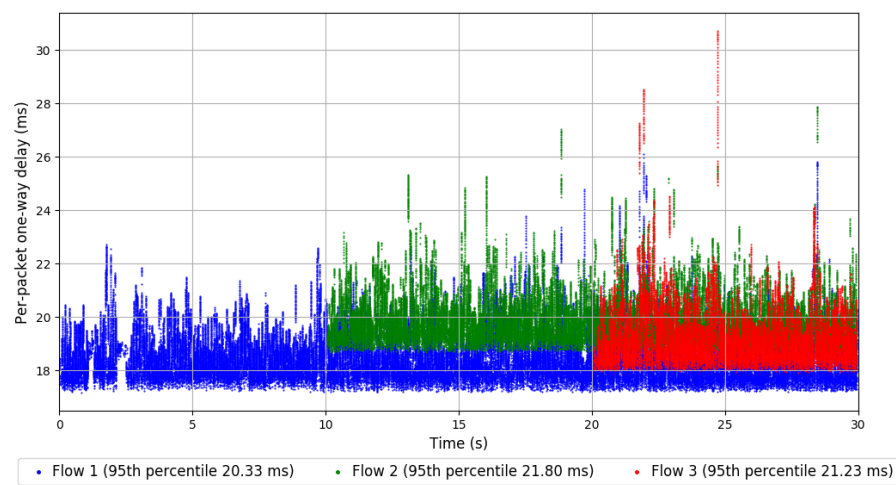
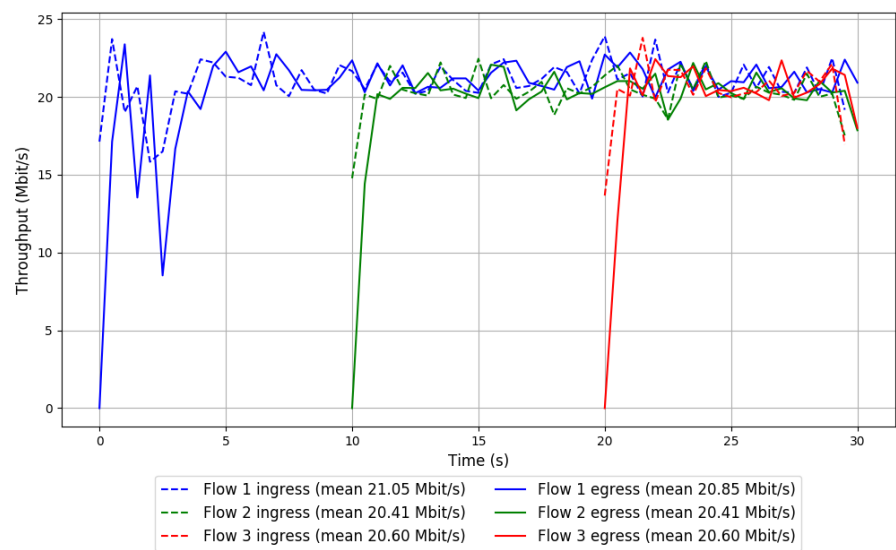


Run 6: Statistics of Sprout

Start at: 2018-07-24 16:43:45
End at: 2018-07-24 16:44:15
Local clock offset: 3.508 ms
Remote clock offset: 2.823 ms

```
# Below is generated by plot.py at 2018-07-24 20:53:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.22 Mbit/s
95th percentile per-packet one-way delay: 21.199 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 20.85 Mbit/s
95th percentile per-packet one-way delay: 20.328 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 20.41 Mbit/s
95th percentile per-packet one-way delay: 21.798 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.60 Mbit/s
95th percentile per-packet one-way delay: 21.229 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

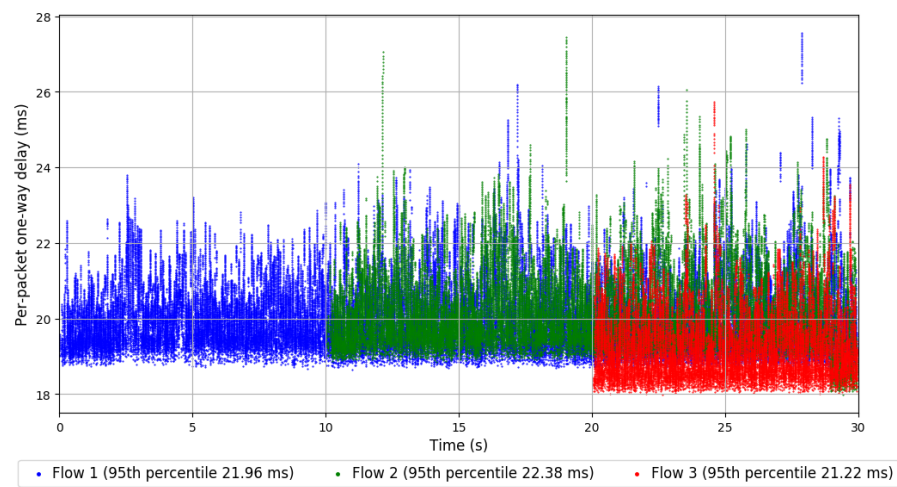
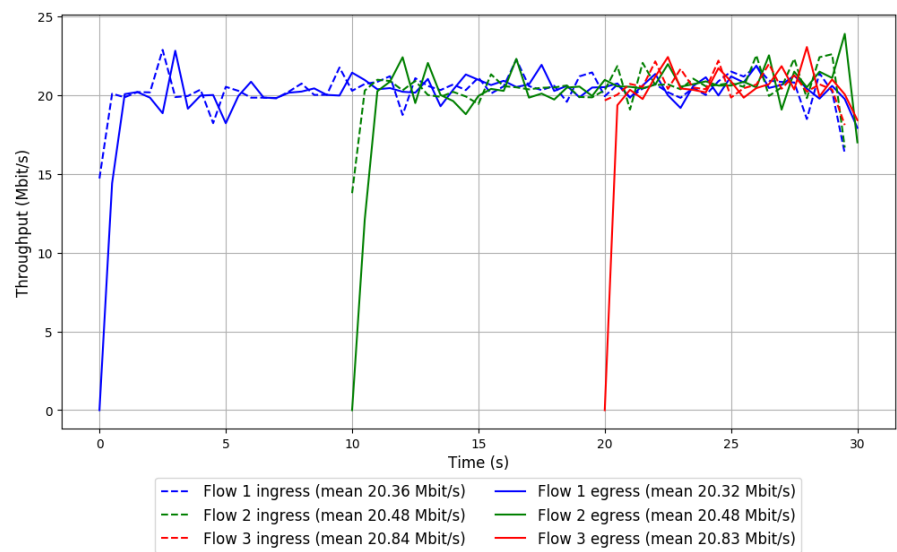


Run 7: Statistics of Sprout

Start at: 2018-07-24 17:11:07
End at: 2018-07-24 17:11:37
Local clock offset: 3.637 ms
Remote clock offset: 2.791 ms

Below is generated by plot.py at 2018-07-24 20:53:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.84 Mbit/s
95th percentile per-packet one-way delay: 22.043 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 20.32 Mbit/s
95th percentile per-packet one-way delay: 21.964 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 20.48 Mbit/s
95th percentile per-packet one-way delay: 22.380 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.83 Mbit/s
95th percentile per-packet one-way delay: 21.224 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-24 17:38:40

End at: 2018-07-24 17:39:10

Local clock offset: 3.325 ms

Remote clock offset: 2.651 ms

Below is generated by plot.py at 2018-07-24 20:53:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 21.390 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 20.41 Mbit/s

95th percentile per-packet one-way delay: 21.518 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.85 Mbit/s

95th percentile per-packet one-way delay: 21.076 ms

Loss rate: 0.00%

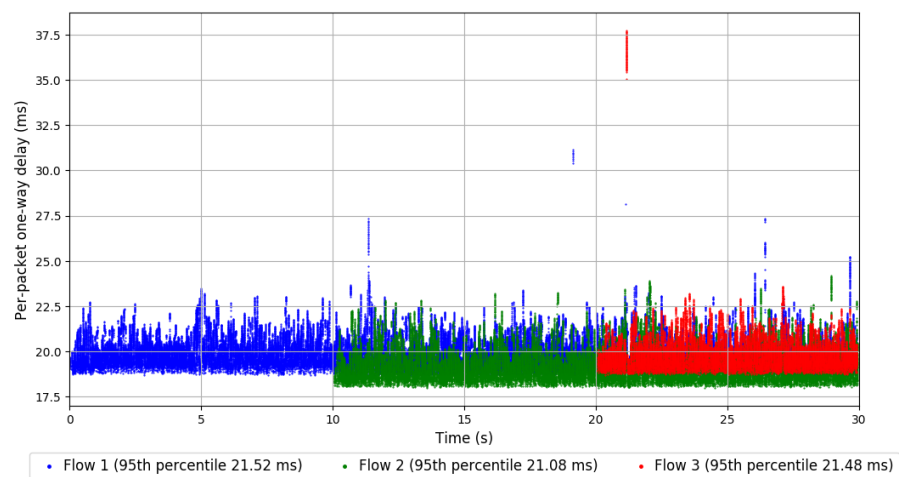
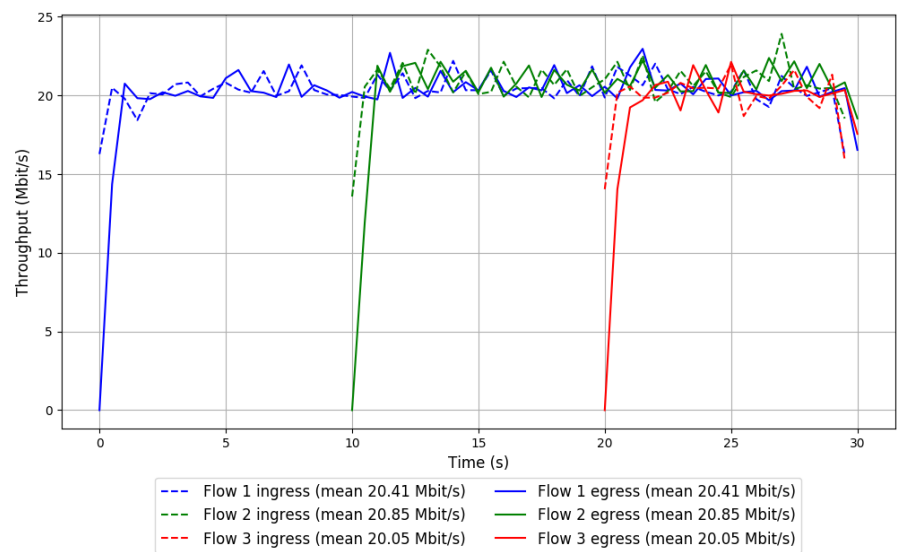
-- Flow 3:

Average throughput: 20.05 Mbit/s

95th percentile per-packet one-way delay: 21.485 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-24 18:05:42

End at: 2018-07-24 18:06:12

Local clock offset: 3.283 ms

Remote clock offset: 2.225 ms

Below is generated by plot.py at 2018-07-24 20:53:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 21.739 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 20.21 Mbit/s

95th percentile per-packet one-way delay: 22.004 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 20.78 Mbit/s

95th percentile per-packet one-way delay: 21.282 ms

Loss rate: 0.93%

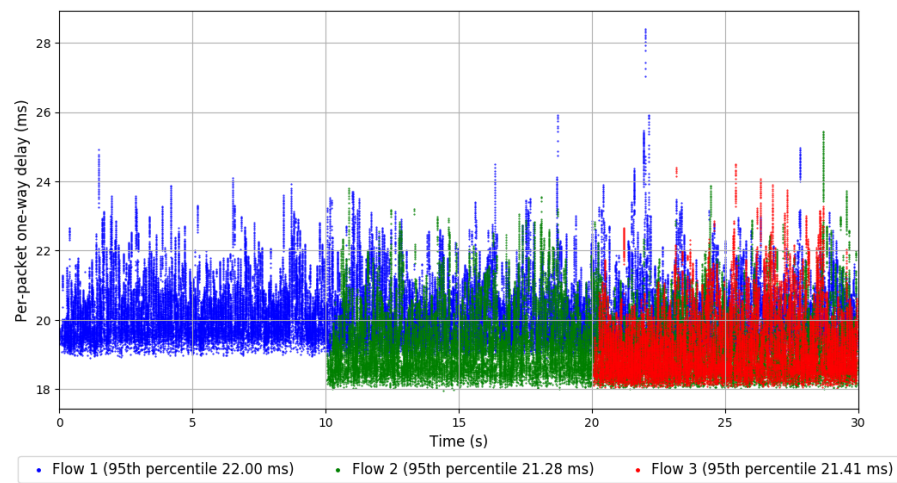
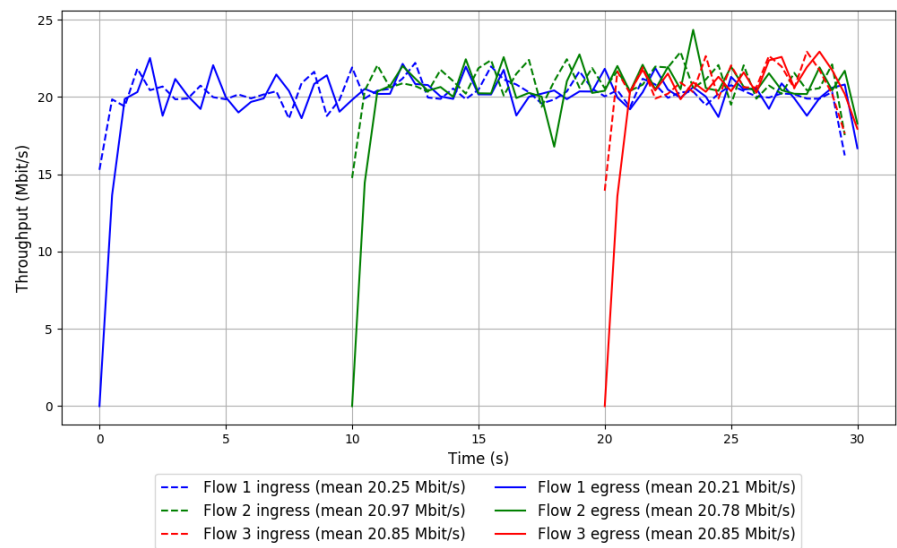
-- Flow 3:

Average throughput: 20.85 Mbit/s

95th percentile per-packet one-way delay: 21.412 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-24 18:32:48

End at: 2018-07-24 18:33:18

Local clock offset: 3.83 ms

Remote clock offset: 1.943 ms

Below is generated by plot.py at 2018-07-24 20:53:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.01 Mbit/s

95th percentile per-packet one-way delay: 22.083 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 20.50 Mbit/s

95th percentile per-packet one-way delay: 22.162 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.46 Mbit/s

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

Loss rate: 0.00%

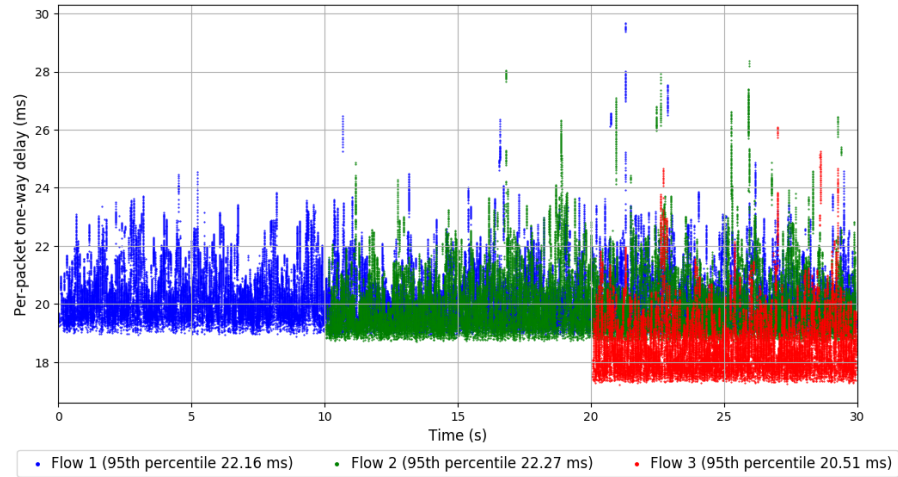
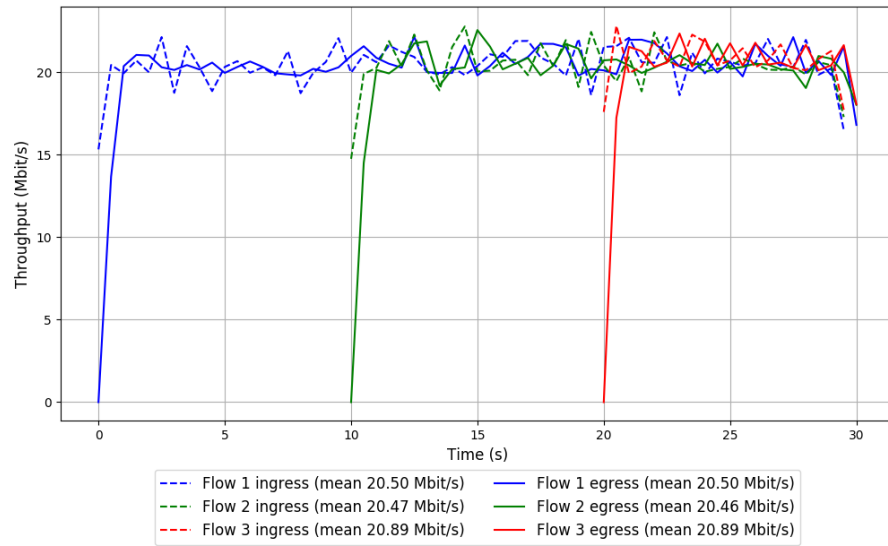
-- Flow 3:

Average throughput: 20.89 Mbit/s

95th percentile per-packet one-way delay: 20.507 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

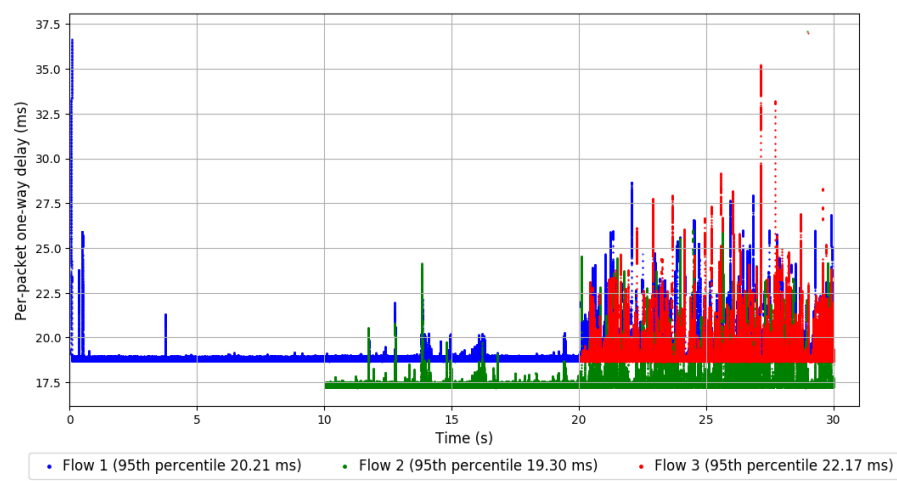
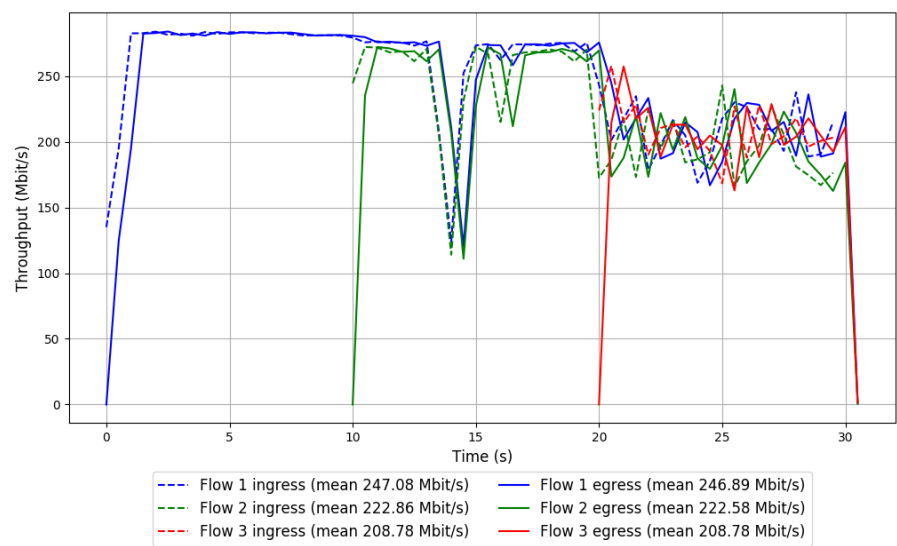


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-24 14:36:30
End at: 2018-07-24 14:37:00
Local clock offset: 3.737 ms
Remote clock offset: 0.342 ms

# Below is generated by plot.py at 2018-07-24 20:59:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 464.60 Mbit/s
95th percentile per-packet one-way delay: 20.489 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 246.89 Mbit/s
95th percentile per-packet one-way delay: 20.209 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 222.58 Mbit/s
95th percentile per-packet one-way delay: 19.302 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 208.78 Mbit/s
95th percentile per-packet one-way delay: 22.174 ms
Loss rate: 0.00%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-24 15:03:38

End at: 2018-07-24 15:04:08

Local clock offset: 3.862 ms

Remote clock offset: 1.002 ms

Below is generated by plot.py at 2018-07-24 20:59:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 467.52 Mbit/s

95th percentile per-packet one-way delay: 20.660 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 245.87 Mbit/s

95th percentile per-packet one-way delay: 20.399 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 228.36 Mbit/s

95th percentile per-packet one-way delay: 19.363 ms

Loss rate: 0.00%

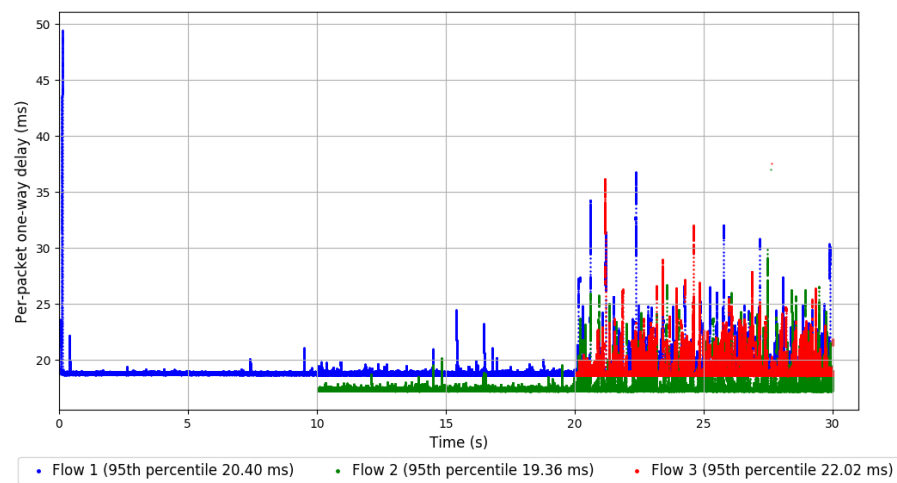
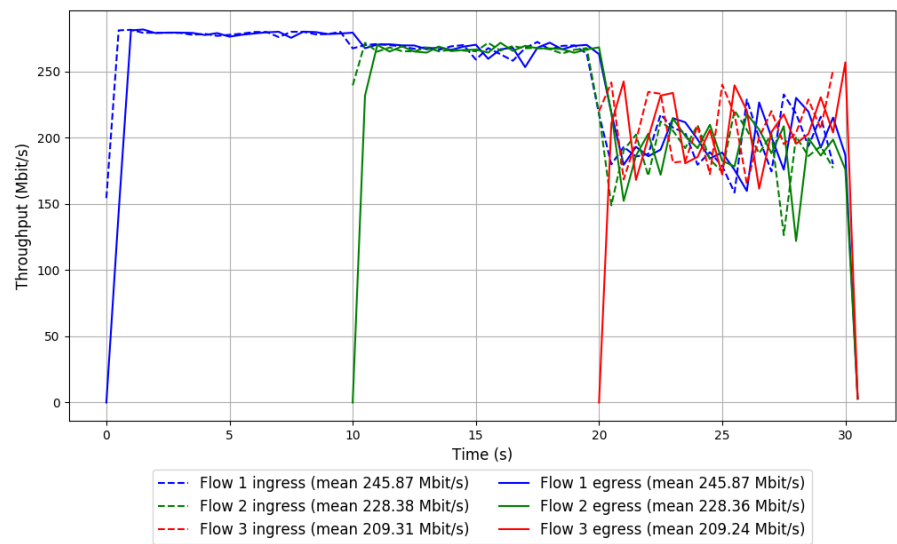
-- Flow 3:

Average throughput: 209.24 Mbit/s

95th percentile per-packet one-way delay: 22.017 ms

Loss rate: 0.04%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-24 15:30:57

End at: 2018-07-24 15:31:27

Local clock offset: 3.255 ms

Remote clock offset: 1.6 ms

Below is generated by plot.py at 2018-07-24 20:59:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 465.62 Mbit/s

95th percentile per-packet one-way delay: 20.885 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 242.13 Mbit/s

95th percentile per-packet one-way delay: 19.596 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 236.36 Mbit/s

95th percentile per-packet one-way delay: 20.889 ms

Loss rate: 0.01%

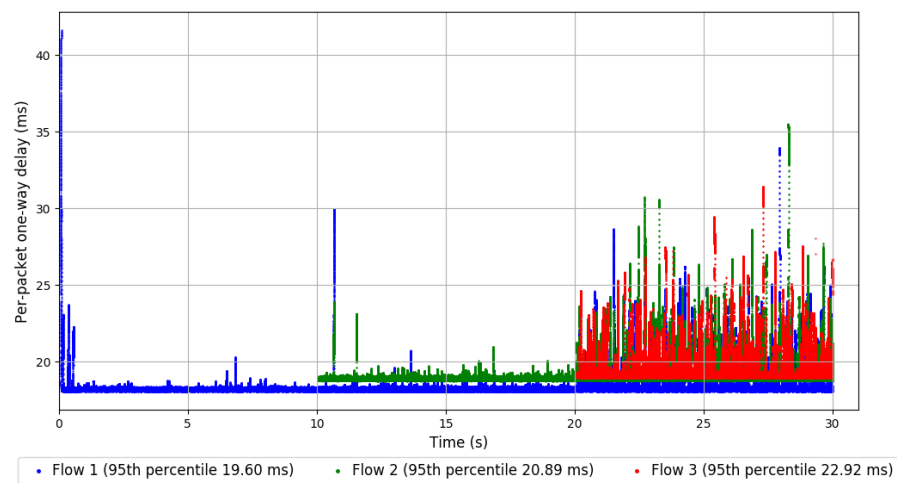
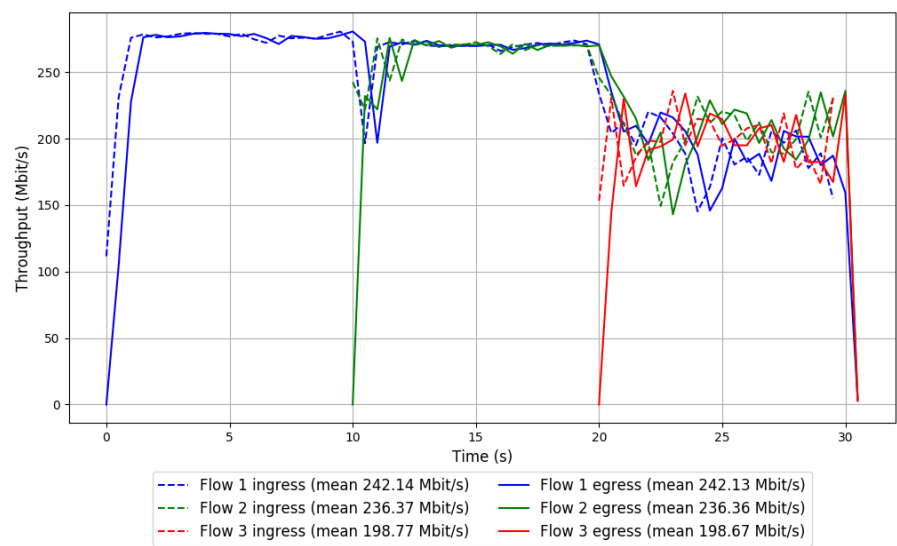
-- Flow 3:

Average throughput: 198.67 Mbit/s

95th percentile per-packet one-way delay: 22.920 ms

Loss rate: 0.06%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-24 15:58:25

End at: 2018-07-24 15:58:55

Local clock offset: 3.649 ms

Remote clock offset: 2.225 ms

Below is generated by plot.py at 2018-07-24 20:59:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 451.52 Mbit/s

95th percentile per-packet one-way delay: 20.706 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 233.12 Mbit/s

95th percentile per-packet one-way delay: 19.798 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 232.43 Mbit/s

95th percentile per-packet one-way delay: 21.061 ms

Loss rate: 0.01%

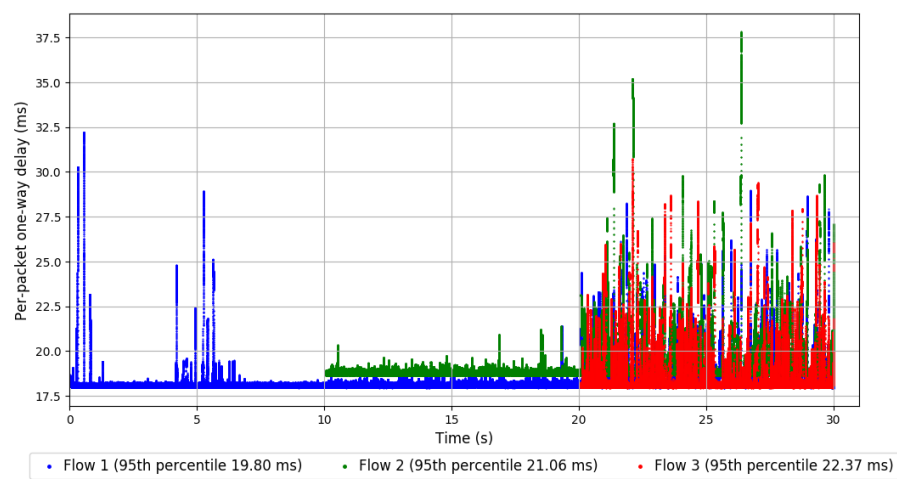
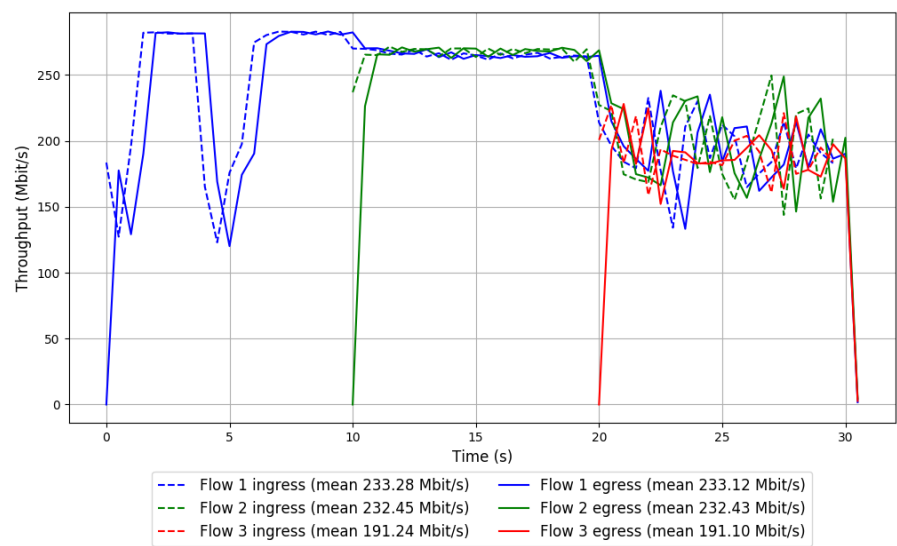
-- Flow 3:

Average throughput: 191.10 Mbit/s

95th percentile per-packet one-way delay: 22.367 ms

Loss rate: 0.06%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-24 16:25:41

End at: 2018-07-24 16:26:11

Local clock offset: 3.477 ms

Remote clock offset: 2.774 ms

Below is generated by plot.py at 2018-07-24 21:01:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.00 Mbit/s

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

Loss rate: 0.06%

-- Flow 1:

Average throughput: 268.08 Mbit/s

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

Loss rate: 0.06%

-- Flow 2:

Average throughput: 45.70 Mbit/s

95th percentile per-packet one-way delay: 17.485 ms

Loss rate: 0.25%

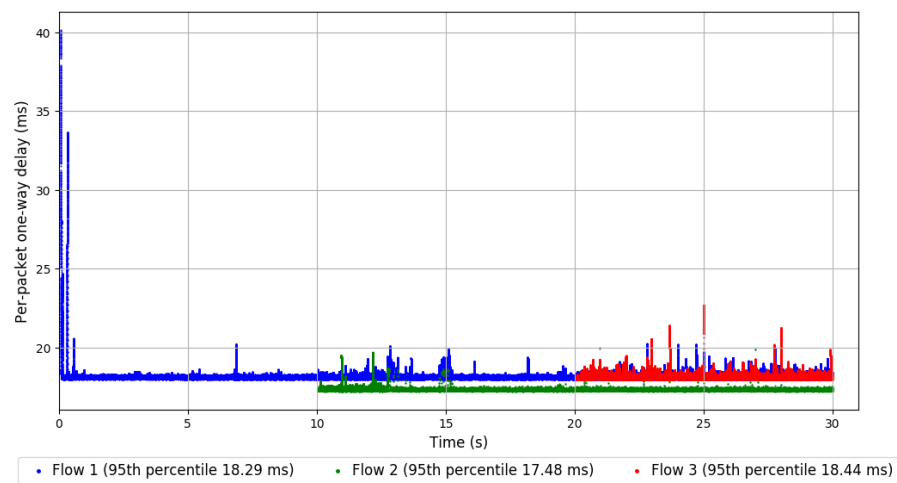
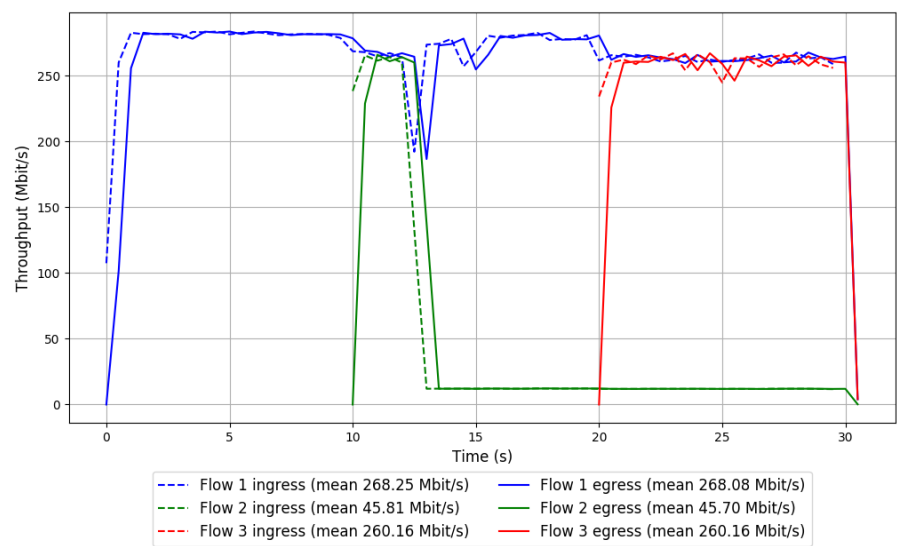
-- Flow 3:

Average throughput: 260.16 Mbit/s

95th percentile per-packet one-way delay: 18.441 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-24 16:52:50

End at: 2018-07-24 16:53:20

Local clock offset: 3.543 ms

Remote clock offset: 2.84 ms

Below is generated by plot.py at 2018-07-24 21:03:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 454.27 Mbit/s

95th percentile per-packet one-way delay: 21.164 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 233.94 Mbit/s

95th percentile per-packet one-way delay: 18.859 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 228.12 Mbit/s

95th percentile per-packet one-way delay: 21.649 ms

Loss rate: 0.00%

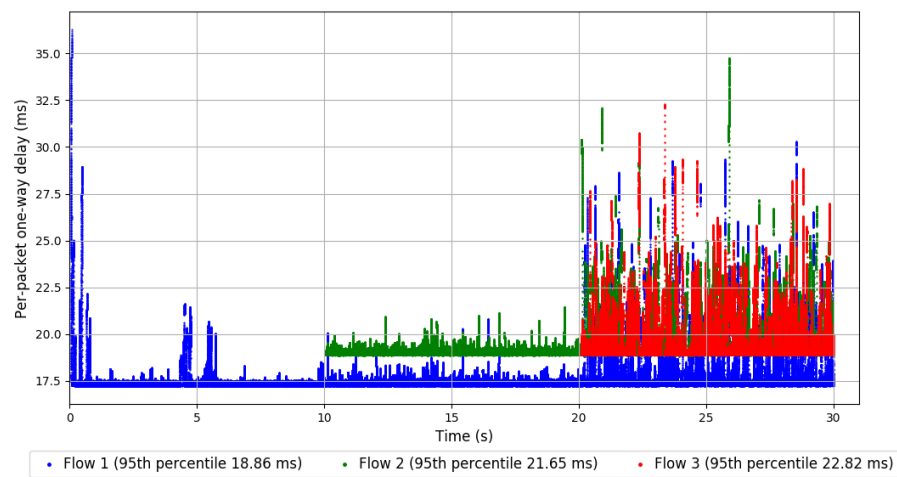
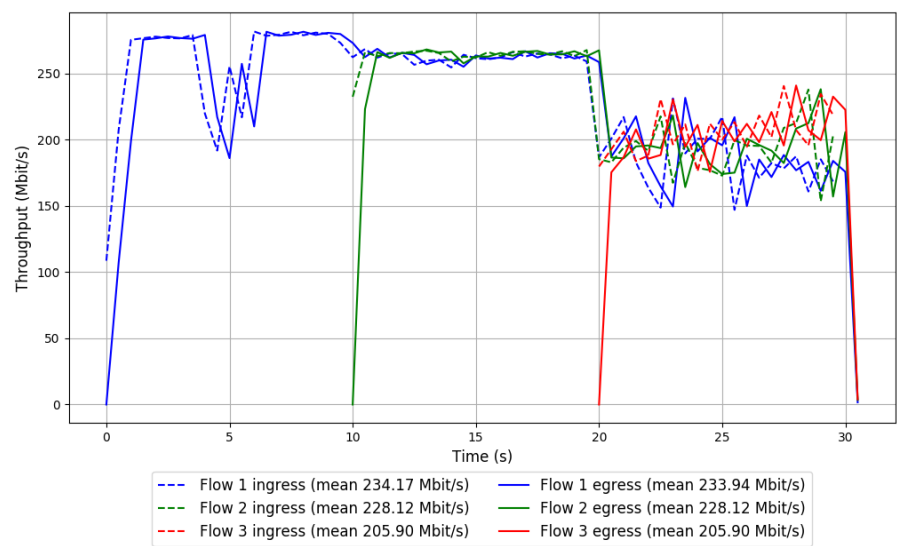
-- Flow 3:

Average throughput: 205.90 Mbit/s

95th percentile per-packet one-way delay: 22.816 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-24 17:20:16

End at: 2018-07-24 17:20:46

Local clock offset: 3.501 ms

Remote clock offset: 2.832 ms

Below is generated by plot.py at 2018-07-24 21:03:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 450.54 Mbit/s

95th percentile per-packet one-way delay: 20.786 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 236.54 Mbit/s

95th percentile per-packet one-way delay: 19.618 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 226.15 Mbit/s

95th percentile per-packet one-way delay: 21.153 ms

Loss rate: 0.01%

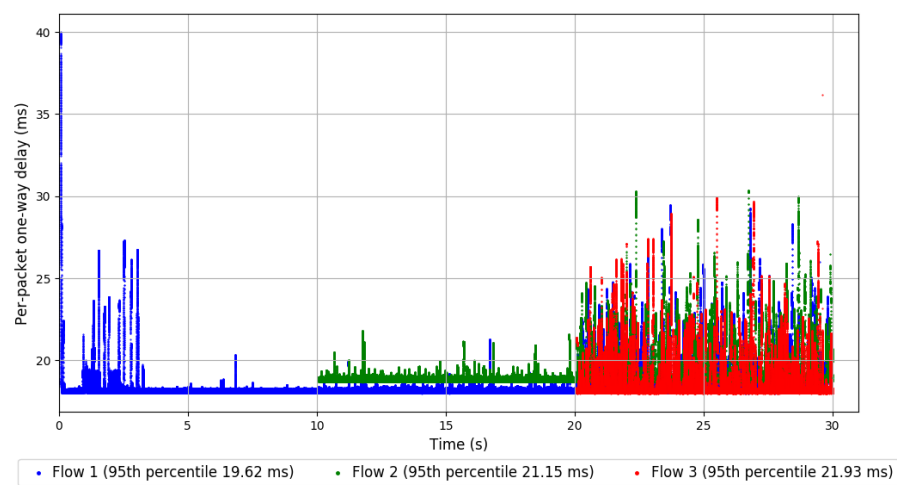
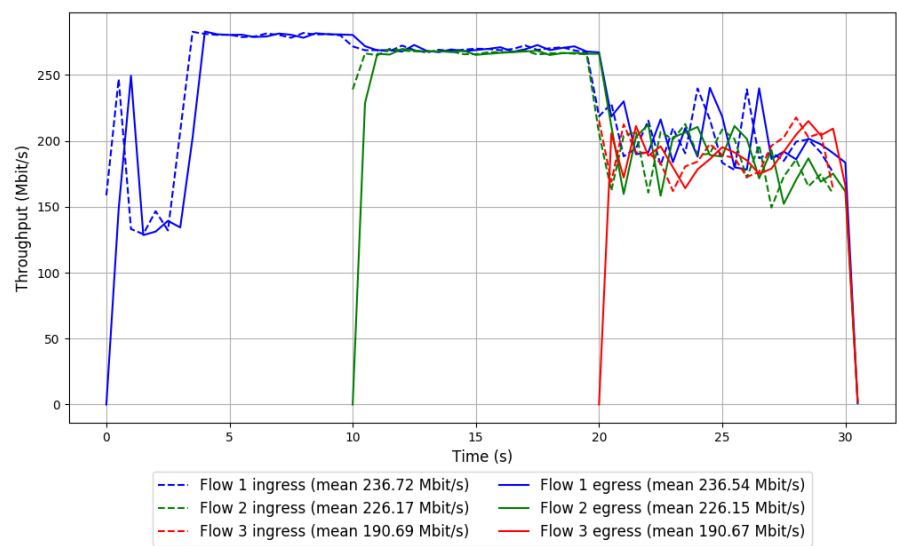
-- Flow 3:

Average throughput: 190.67 Mbit/s

95th percentile per-packet one-way delay: 21.932 ms

Loss rate: 0.01%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-24 17:47:44

End at: 2018-07-24 17:48:14

Local clock offset: 3.192 ms

Remote clock offset: 2.416 ms

Below is generated by plot.py at 2018-07-24 21:03:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 449.39 Mbit/s

95th percentile per-packet one-way delay: 20.289 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 235.08 Mbit/s

95th percentile per-packet one-way delay: 20.195 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 221.55 Mbit/s

95th percentile per-packet one-way delay: 19.322 ms

Loss rate: 0.00%

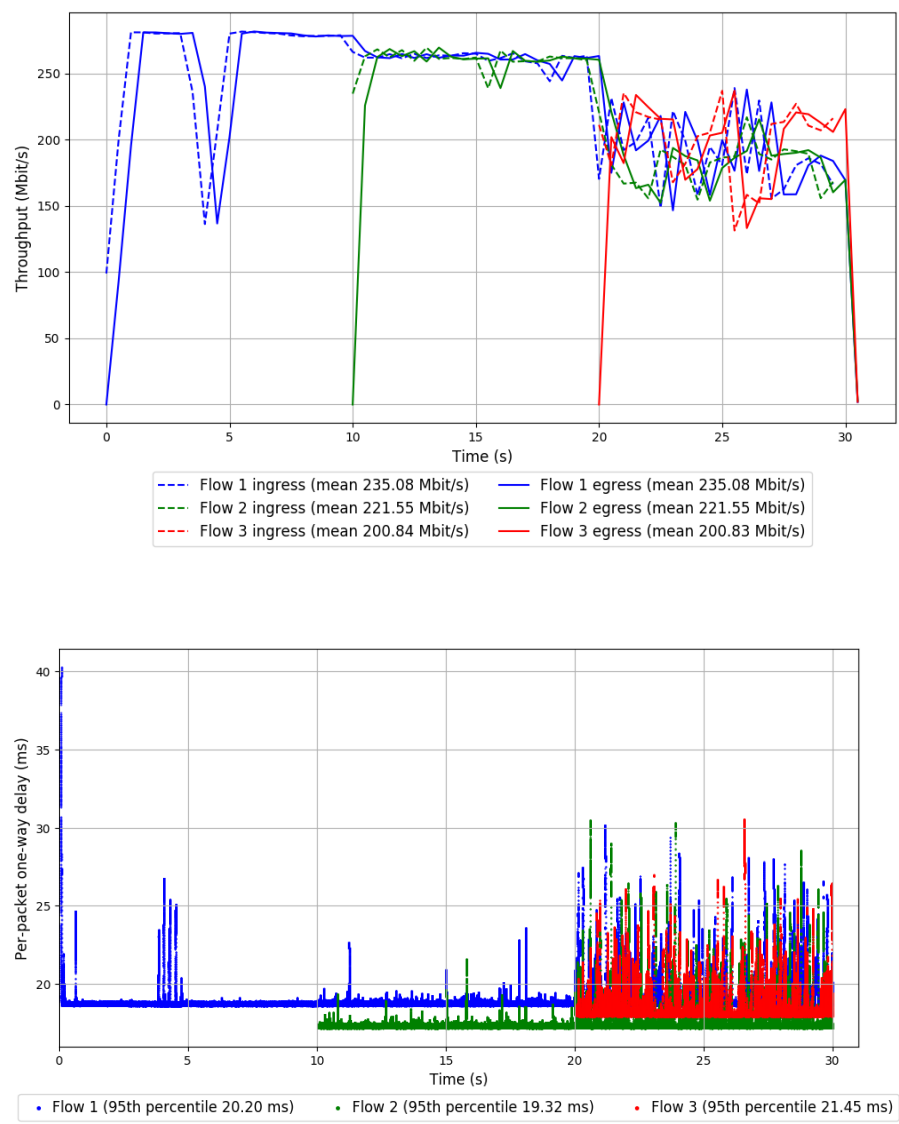
-- Flow 3:

Average throughput: 200.83 Mbit/s

95th percentile per-packet one-way delay: 21.453 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-24 18:14:43

End at: 2018-07-24 18:15:13

Local clock offset: 3.347 ms

Remote clock offset: 2.141 ms

Below is generated by plot.py at 2018-07-24 21:08:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.37 Mbit/s

95th percentile per-packet one-way delay: 19.780 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 209.92 Mbit/s

95th percentile per-packet one-way delay: 19.623 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 181.02 Mbit/s

95th percentile per-packet one-way delay: 19.517 ms

Loss rate: 0.24%

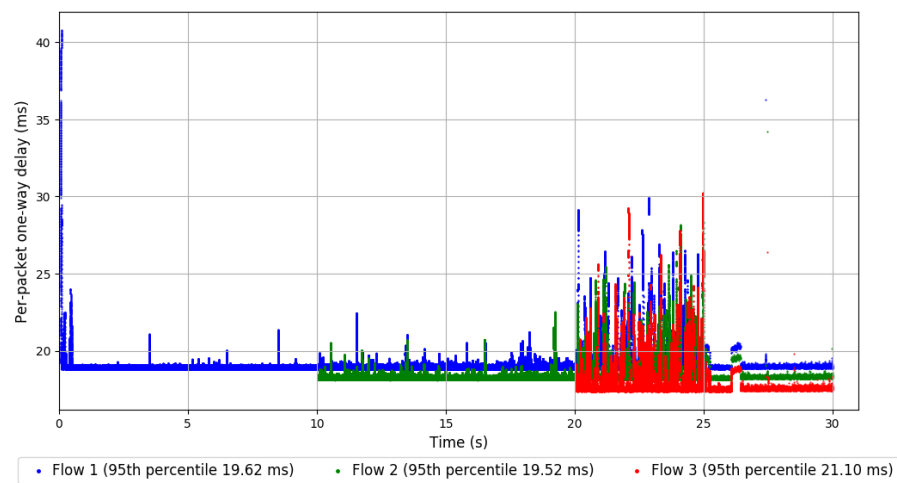
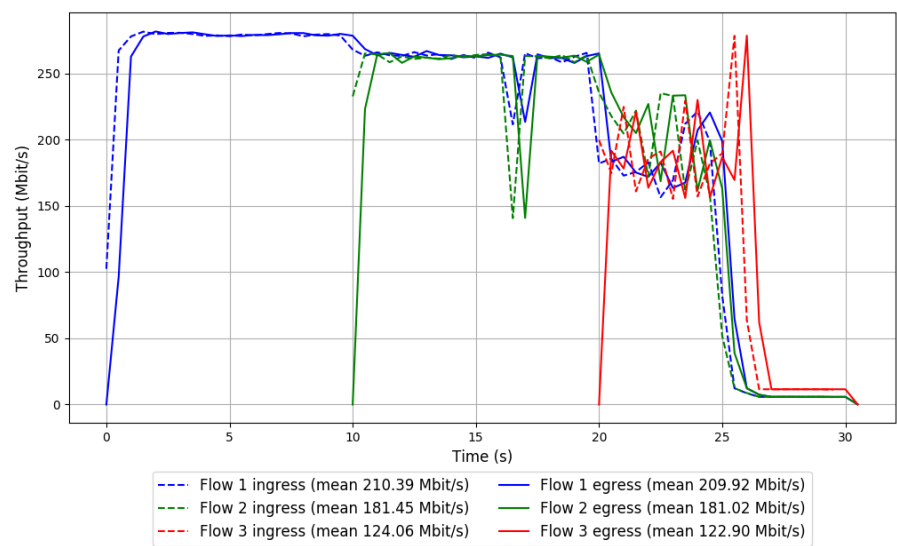
-- Flow 3:

Average throughput: 122.90 Mbit/s

95th percentile per-packet one-way delay: 21.098 ms

Loss rate: 0.93%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-24 18:41:51

End at: 2018-07-24 18:42:21

Local clock offset: 3.67 ms

Remote clock offset: 1.889 ms

Below is generated by plot.py at 2018-07-24 21:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 445.65 Mbit/s

95th percentile per-packet one-way delay: 21.236 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 230.26 Mbit/s

95th percentile per-packet one-way delay: 20.590 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 224.63 Mbit/s

95th percentile per-packet one-way delay: 21.054 ms

Loss rate: 0.00%

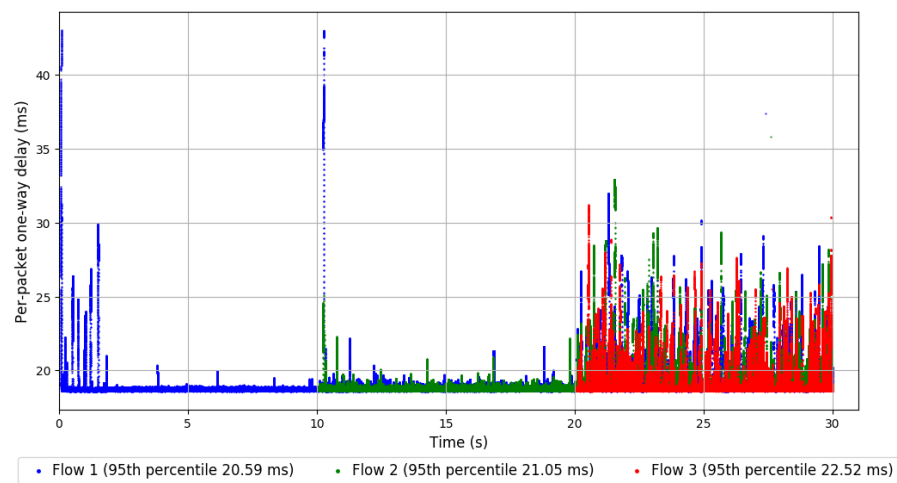
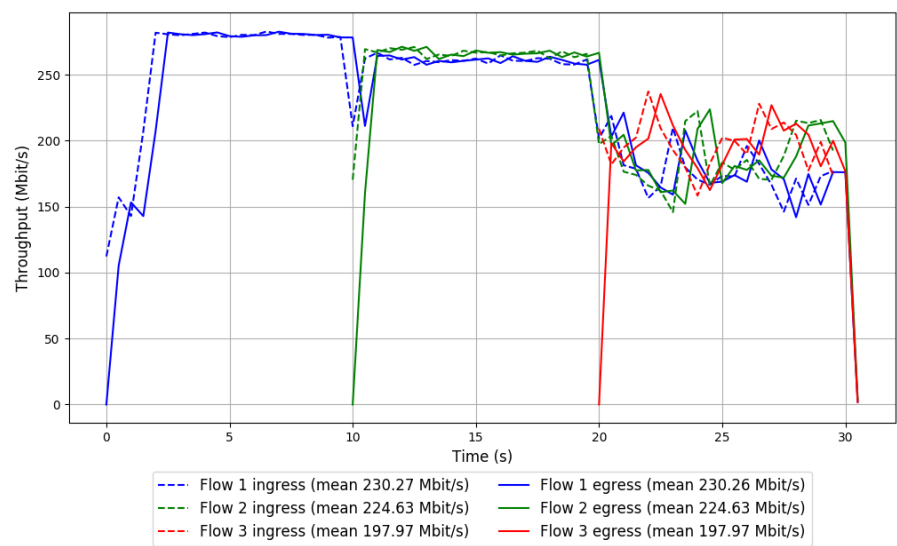
-- Flow 3:

Average throughput: 197.97 Mbit/s

95th percentile per-packet one-way delay: 22.519 ms

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-24 14:44:57

End at: 2018-07-24 14:45:27

Local clock offset: 3.845 ms

Remote clock offset: 0.501 ms

Below is generated by plot.py at 2018-07-24 21:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 248.01 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 129.86 Mbit/s

95th percentile per-packet one-way delay: 22.026 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 95.44 Mbit/s

95th percentile per-packet one-way delay: 19.224 ms

Loss rate: 0.08%

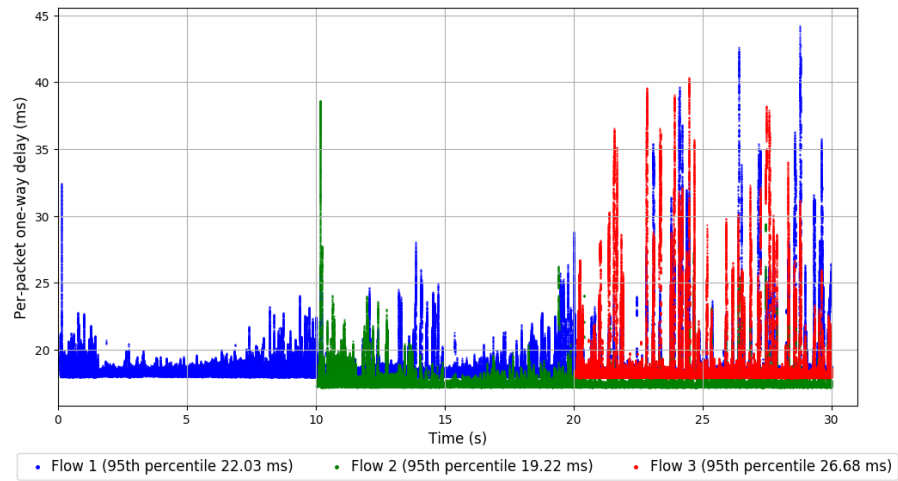
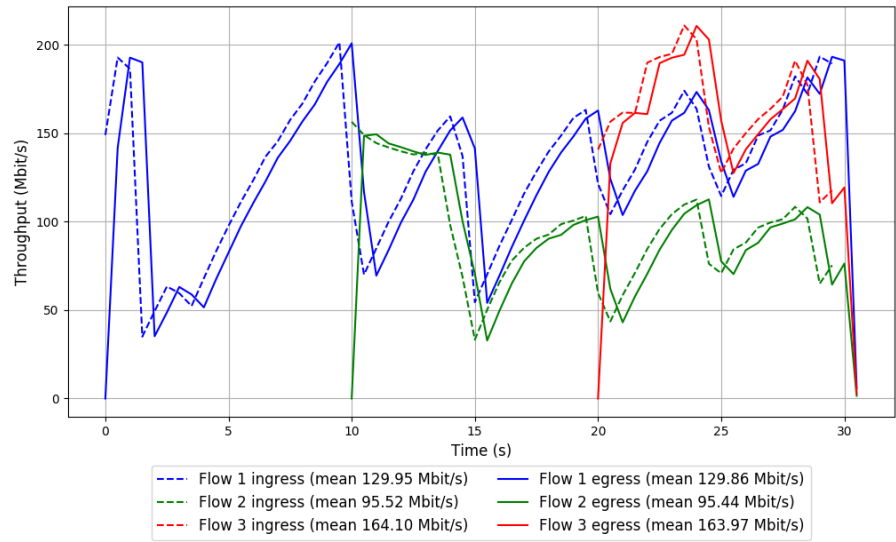
-- Flow 3:

Average throughput: 163.97 Mbit/s

95th percentile per-packet one-way delay: 26.684 ms

Loss rate: 0.08%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-24 15:12:09

End at: 2018-07-24 15:12:39

Local clock offset: 3.61 ms

Remote clock offset: 1.238 ms

Below is generated by plot.py at 2018-07-24 21:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.62 Mbit/s

95th percentile per-packet one-way delay: 23.372 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 98.66 Mbit/s

95th percentile per-packet one-way delay: 23.107 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 90.03 Mbit/s

95th percentile per-packet one-way delay: 23.878 ms

Loss rate: 0.73%

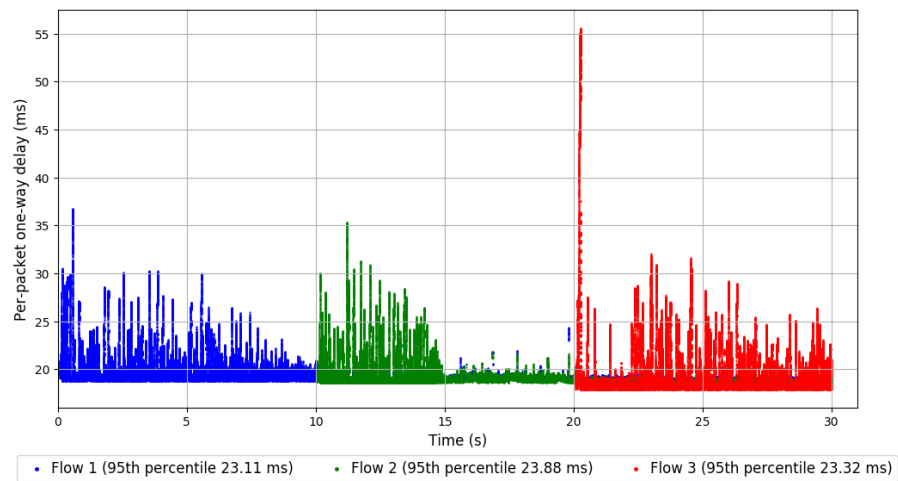
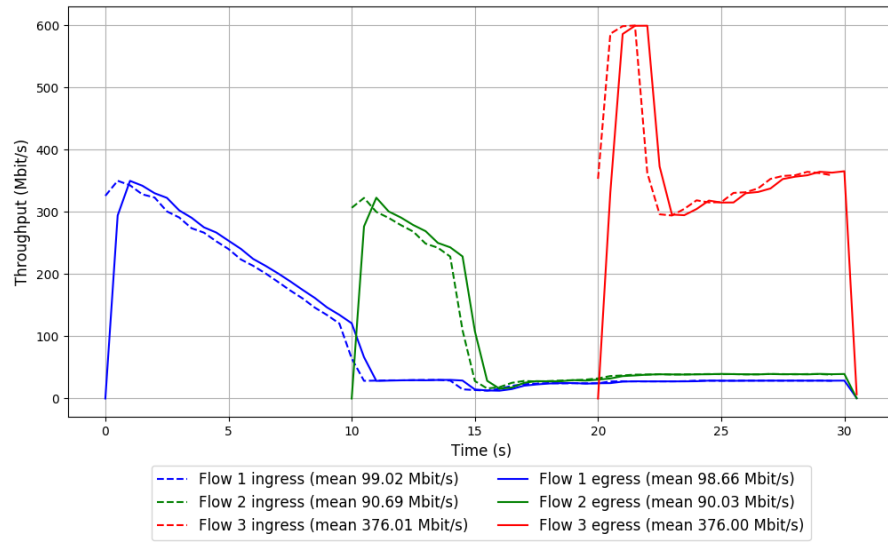
-- Flow 3:

Average throughput: 376.00 Mbit/s

95th percentile per-packet one-way delay: 23.322 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-24 15:39:32

End at: 2018-07-24 15:40:02

Local clock offset: 3.599 ms

Remote clock offset: 1.791 ms

Below is generated by plot.py at 2018-07-24 21:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.06 Mbit/s

95th percentile per-packet one-way delay: 24.675 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 93.31 Mbit/s

95th percentile per-packet one-way delay: 22.924 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 179.26 Mbit/s

95th percentile per-packet one-way delay: 21.518 ms

Loss rate: 0.08%

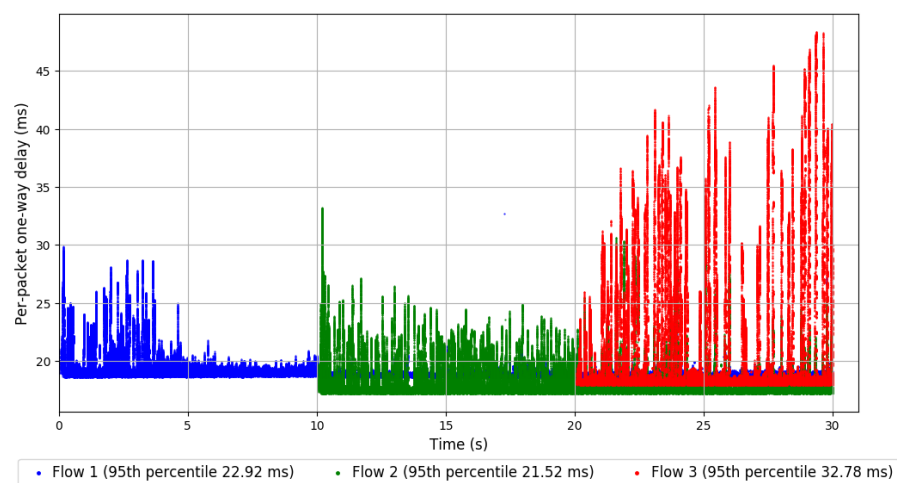
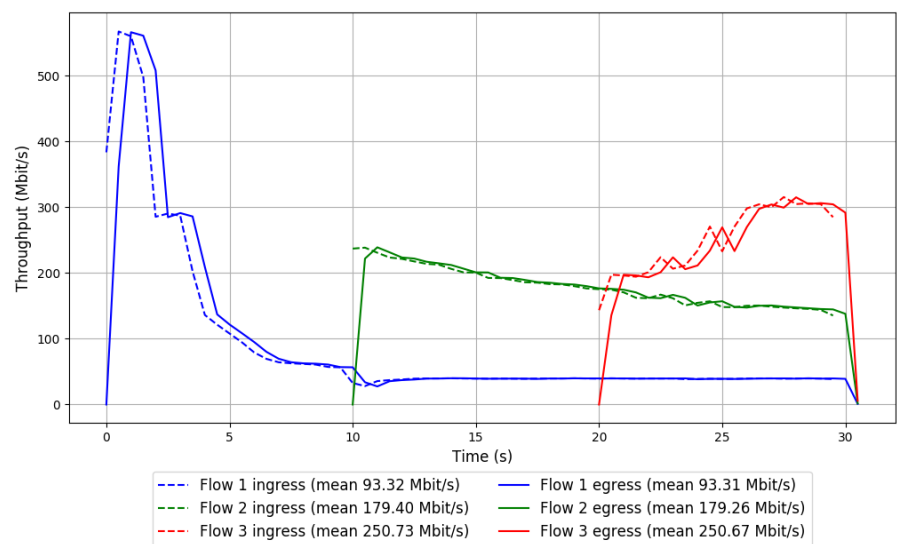
-- Flow 3:

Average throughput: 250.67 Mbit/s

95th percentile per-packet one-way delay: 32.779 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-24 16:06:58

End at: 2018-07-24 16:07:28

Local clock offset: 3.501 ms

Remote clock offset: 2.302 ms

Below is generated by plot.py at 2018-07-24 21:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 200.83 Mbit/s

95th percentile per-packet one-way delay: 23.583 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 79.93 Mbit/s

95th percentile per-packet one-way delay: 20.322 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 120.48 Mbit/s

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

Loss rate: 0.40%

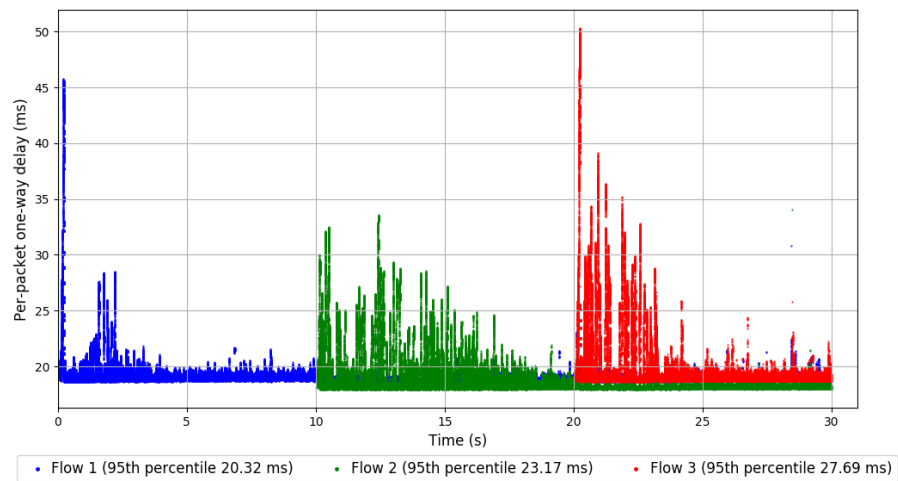
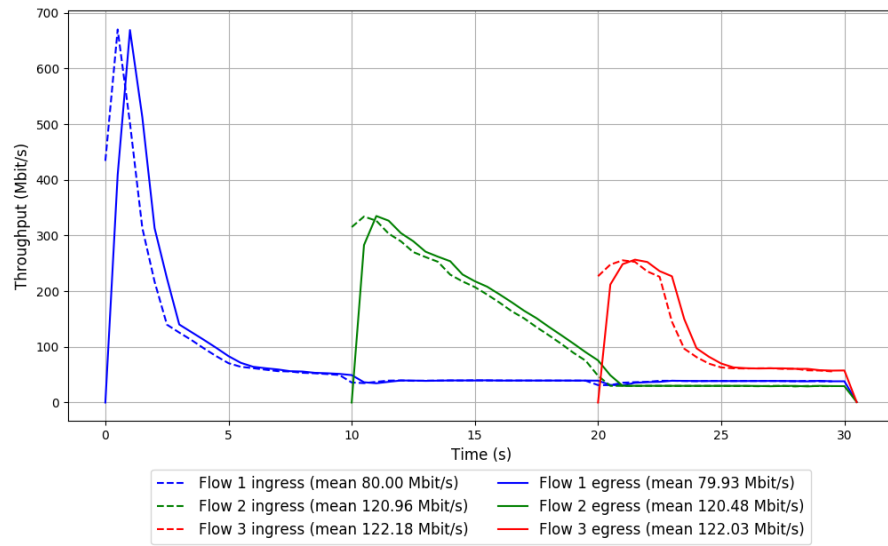
-- Flow 3:

Average throughput: 122.03 Mbit/s

95th percentile per-packet one-way delay: 27.688 ms

Loss rate: 0.12%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-24 16:34:05

End at: 2018-07-24 16:34:35

Local clock offset: 3.495 ms

Remote clock offset: 2.872 ms

Below is generated by plot.py at 2018-07-24 21:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 196.39 Mbit/s

95th percentile per-packet one-way delay: 23.699 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 56.24 Mbit/s

95th percentile per-packet one-way delay: 23.461 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 116.07 Mbit/s

95th percentile per-packet one-way delay: 20.826 ms

Loss rate: 0.02%

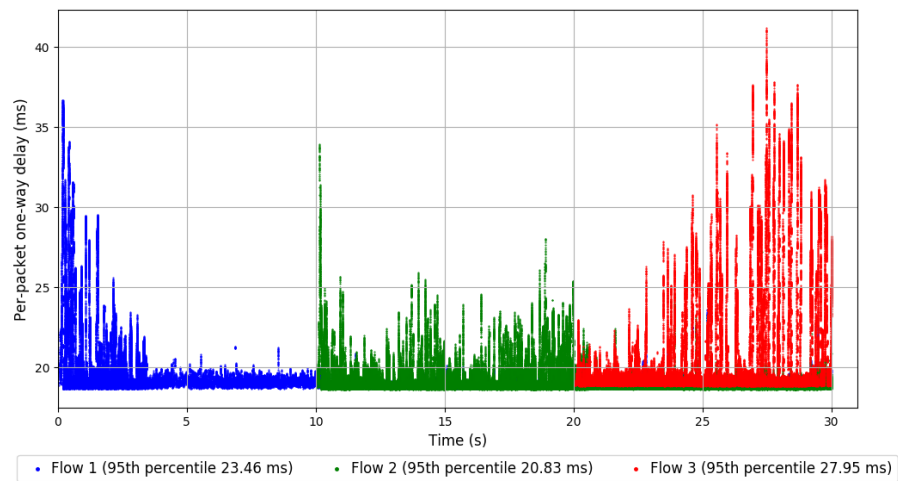
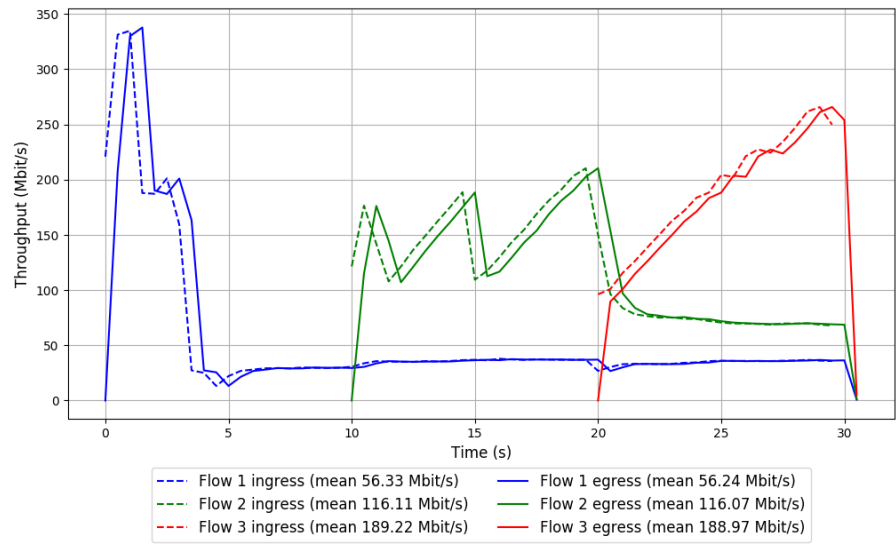
-- Flow 3:

Average throughput: 188.97 Mbit/s

95th percentile per-packet one-way delay: 27.951 ms

Loss rate: 0.13%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-24 17:01:19

End at: 2018-07-24 17:01:49

Local clock offset: 3.686 ms

Remote clock offset: 2.82 ms

Below is generated by plot.py at 2018-07-24 21:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 250.99 Mbit/s

95th percentile per-packet one-way delay: 24.605 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 20.872 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 163.00 Mbit/s

95th percentile per-packet one-way delay: 26.843 ms

Loss rate: 0.04%

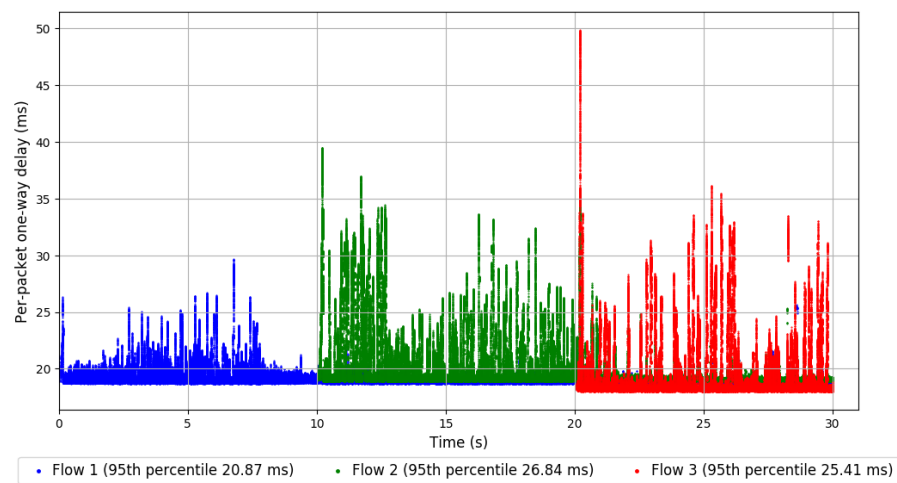
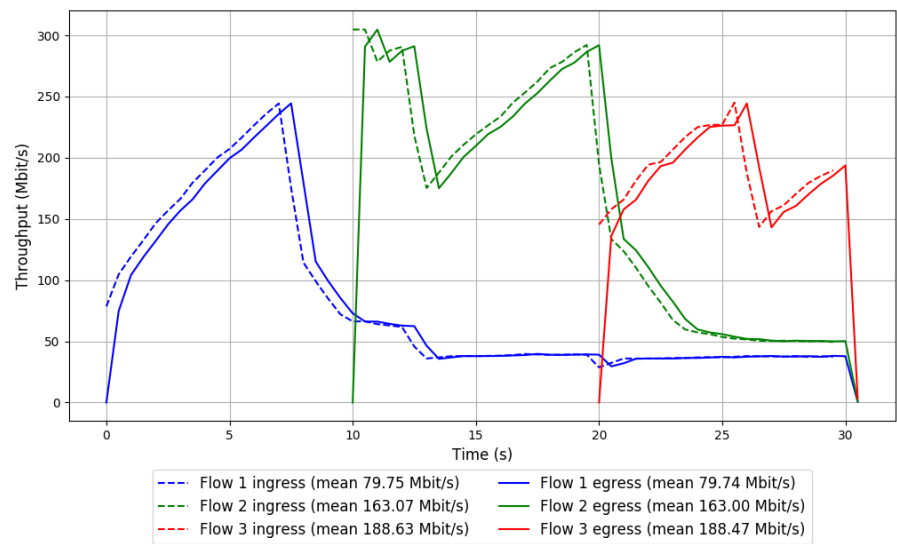
-- Flow 3:

Average throughput: 188.47 Mbit/s

95th percentile per-packet one-way delay: 25.411 ms

Loss rate: 0.08%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-24 17:28:46

End at: 2018-07-24 17:29:16

Local clock offset: 3.355 ms

Remote clock offset: 2.692 ms

Below is generated by plot.py at 2018-07-24 21:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.27 Mbit/s

95th percentile per-packet one-way delay: 24.590 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 174.29 Mbit/s

95th percentile per-packet one-way delay: 23.025 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 160.37 Mbit/s

95th percentile per-packet one-way delay: 28.342 ms

Loss rate: 0.02%

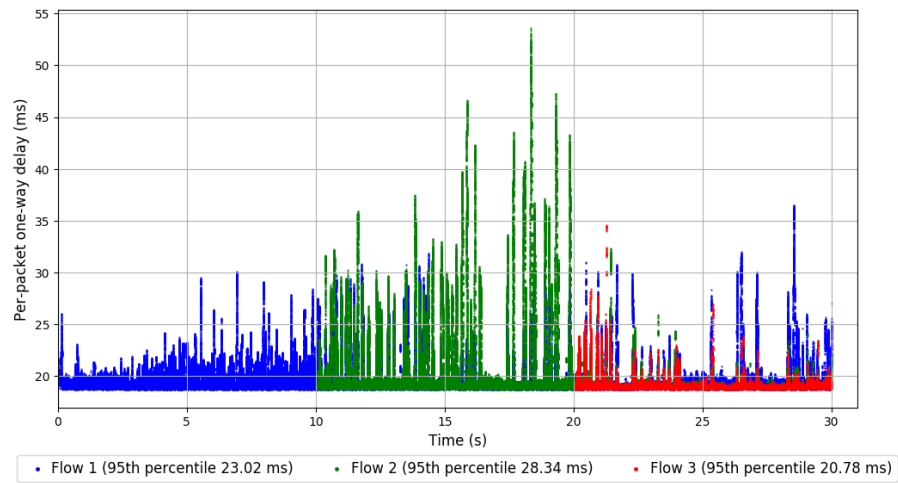
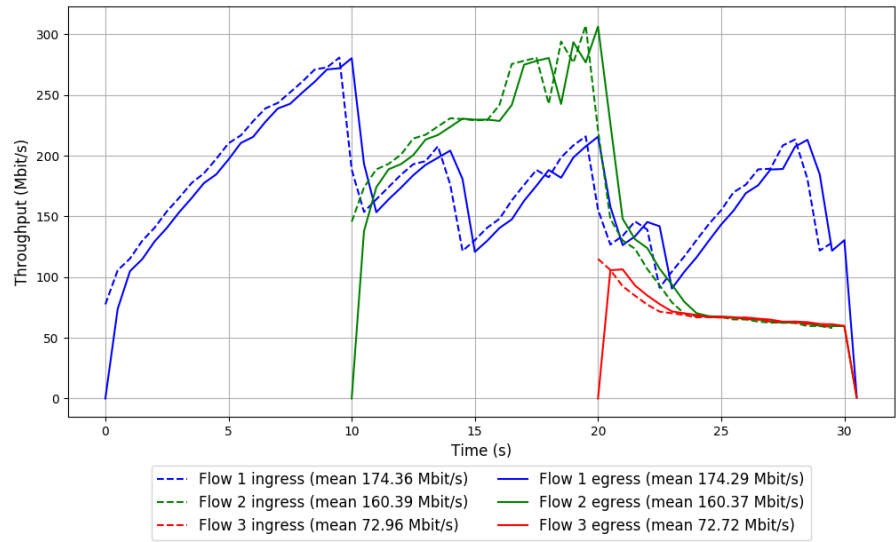
-- Flow 3:

Average throughput: 72.72 Mbit/s

95th percentile per-packet one-way delay: 20.777 ms

Loss rate: 0.32%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-24 17:56:07

End at: 2018-07-24 17:56:37

Local clock offset: 3.211 ms

Remote clock offset: 2.348 ms

Below is generated by plot.py at 2018-07-24 21:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.46 Mbit/s

95th percentile per-packet one-way delay: 22.962 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 97.56 Mbit/s

95th percentile per-packet one-way delay: 22.156 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 121.53 Mbit/s

95th percentile per-packet one-way delay: 24.536 ms

Loss rate: 0.04%

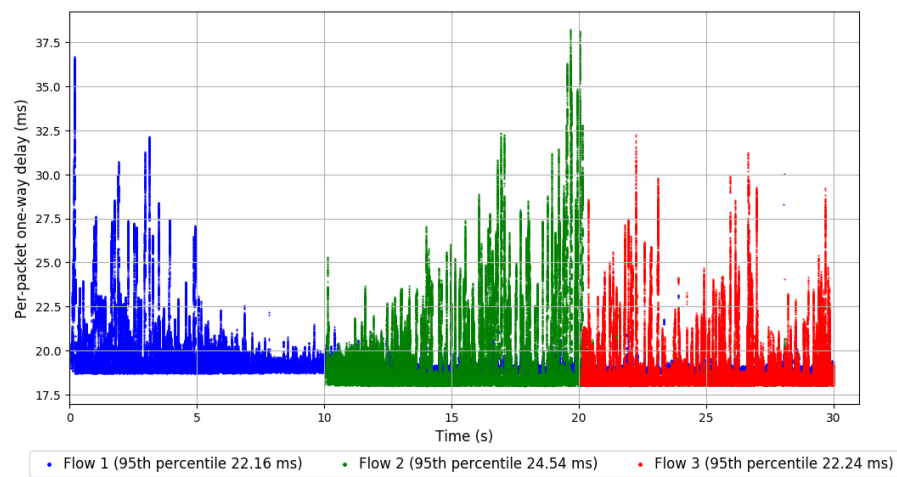
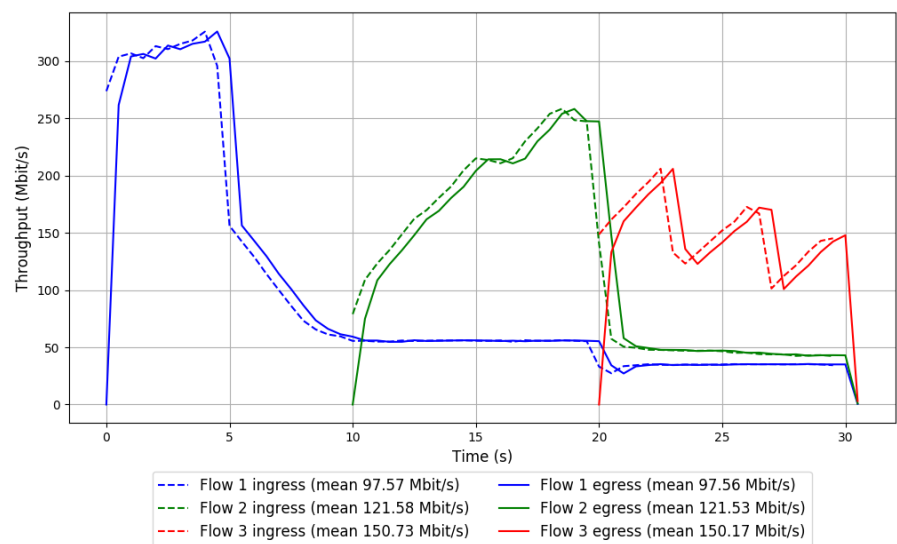
-- Flow 3:

Average throughput: 150.17 Mbit/s

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

Loss rate: 0.36%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-24 18:23:08

End at: 2018-07-24 18:23:38

Local clock offset: 3.573 ms

Remote clock offset: 1.985 ms

Below is generated by plot.py at 2018-07-24 21:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 190.88 Mbit/s

95th percentile per-packet one-way delay: 21.941 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 108.19 Mbit/s

95th percentile per-packet one-way delay: 20.382 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 66.99 Mbit/s

95th percentile per-packet one-way delay: 23.681 ms

Loss rate: 0.41%

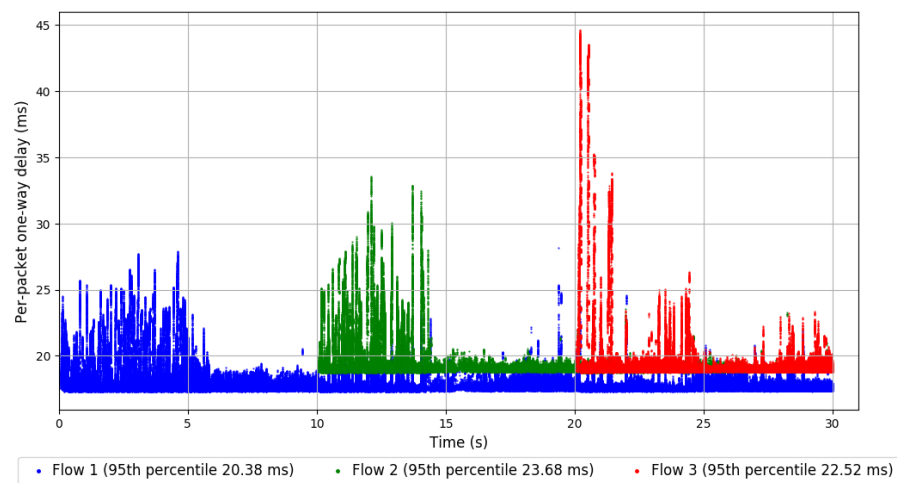
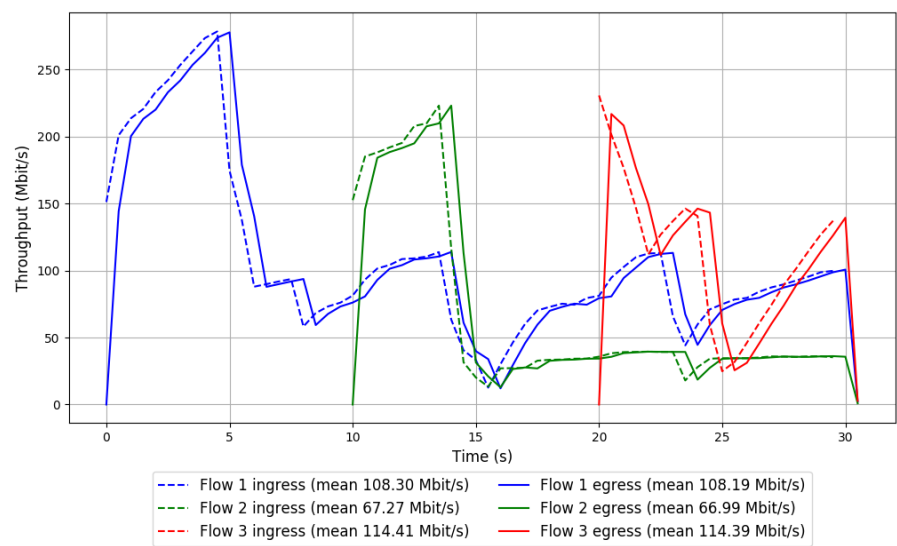
-- Flow 3:

Average throughput: 114.39 Mbit/s

95th percentile per-packet one-way delay: 22.516 ms

Loss rate: 0.02%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-24 18:50:14

End at: 2018-07-24 18:50:44

Local clock offset: 3.747 ms

Remote clock offset: 1.86 ms

Below is generated by plot.py at 2018-07-24 21:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.99 Mbit/s

95th percentile per-packet one-way delay: 23.796 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 137.94 Mbit/s

95th percentile per-packet one-way delay: 23.233 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 49.29 Mbit/s

95th percentile per-packet one-way delay: 20.063 ms

Loss rate: 0.22%

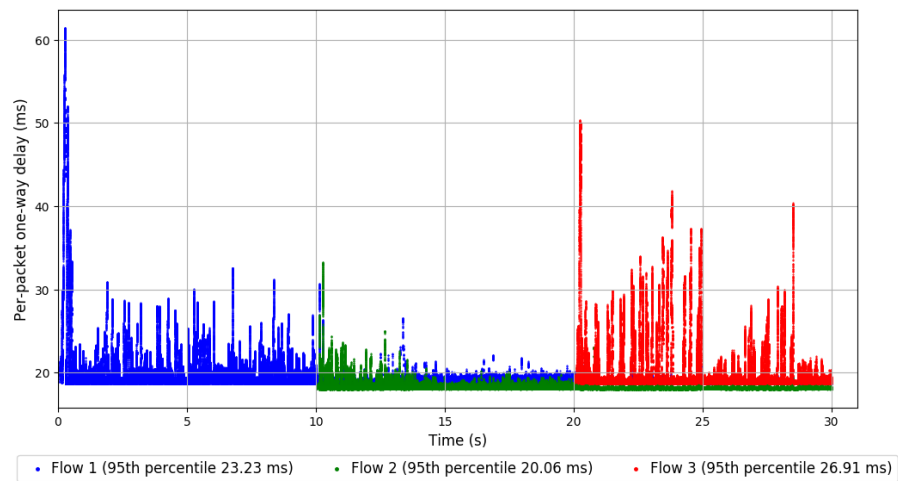
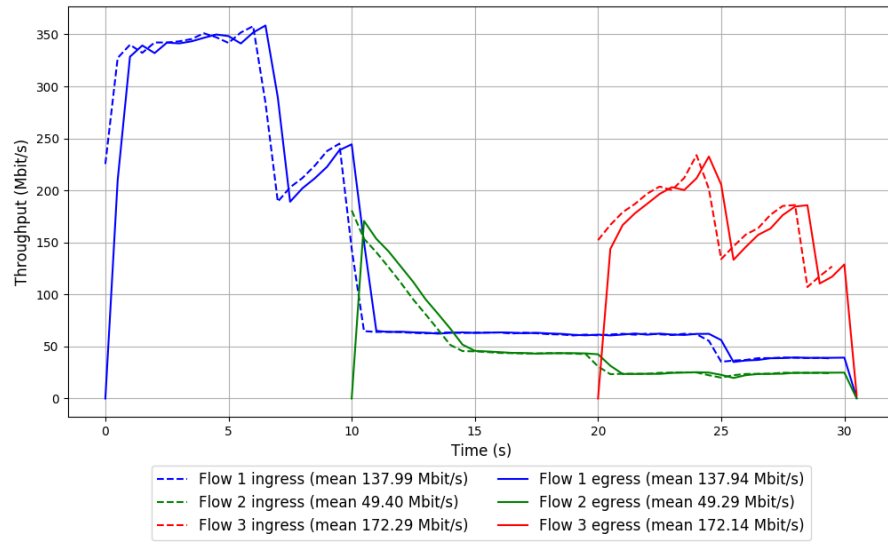
-- Flow 3:

Average throughput: 172.14 Mbit/s

95th percentile per-packet one-way delay: 26.912 ms

Loss rate: 0.08%

Run 10: Report of TCP Vegas — Data Link

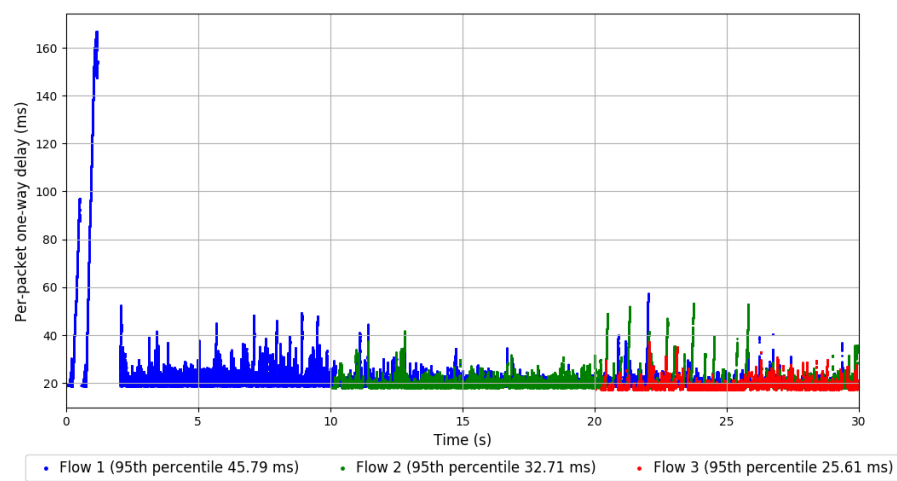
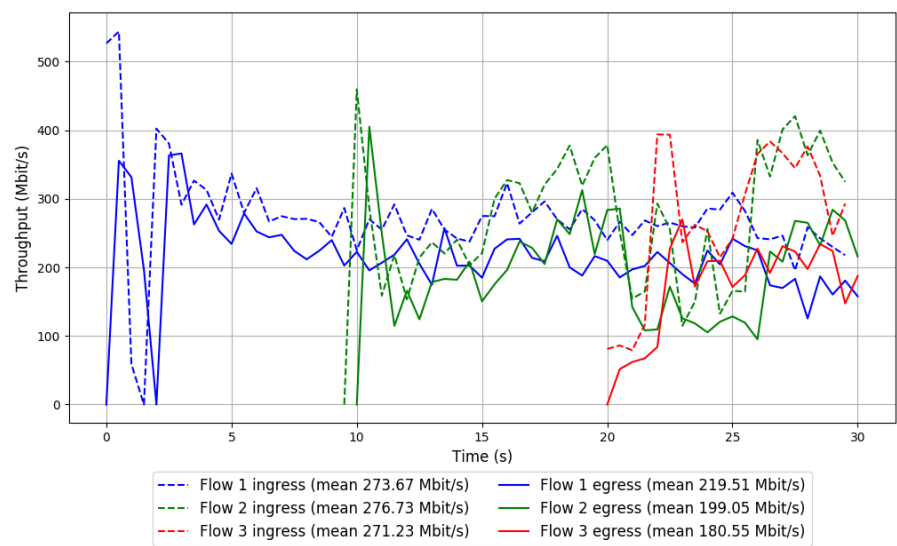


Run 1: Statistics of Verus

Start at: 2018-07-24 14:25:46
End at: 2018-07-24 14:26:16
Local clock offset: 3.63 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-07-24 21:10:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 411.74 Mbit/s
95th percentile per-packet one-way delay: 34.851 ms
Loss rate: 24.80%
-- Flow 1:
Average throughput: 219.51 Mbit/s
95th percentile per-packet one-way delay: 45.792 ms
Loss rate: 19.78%
-- Flow 2:
Average throughput: 199.05 Mbit/s
95th percentile per-packet one-way delay: 32.710 ms
Loss rate: 28.03%
-- Flow 3:
Average throughput: 180.55 Mbit/s
95th percentile per-packet one-way delay: 25.608 ms
Loss rate: 33.45%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-24 14:52:57

End at: 2018-07-24 14:53:27

Local clock offset: 3.867 ms

Remote clock offset: 0.688 ms

Below is generated by plot.py at 2018-07-24 21:11:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 380.37 Mbit/s

95th percentile per-packet one-way delay: 65.071 ms

Loss rate: 28.13%

-- Flow 1:

Average throughput: 177.23 Mbit/s

95th percentile per-packet one-way delay: 73.133 ms

Loss rate: 34.33%

-- Flow 2:

Average throughput: 213.95 Mbit/s

95th percentile per-packet one-way delay: 41.344 ms

Loss rate: 23.15%

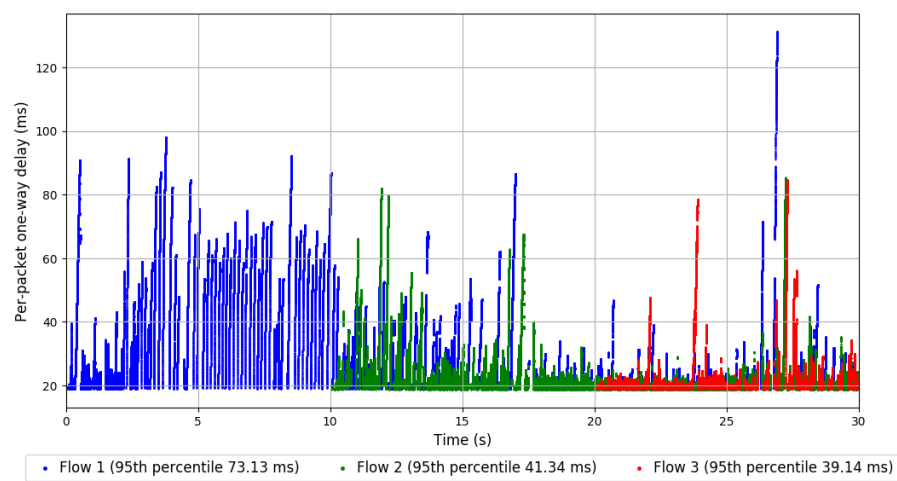
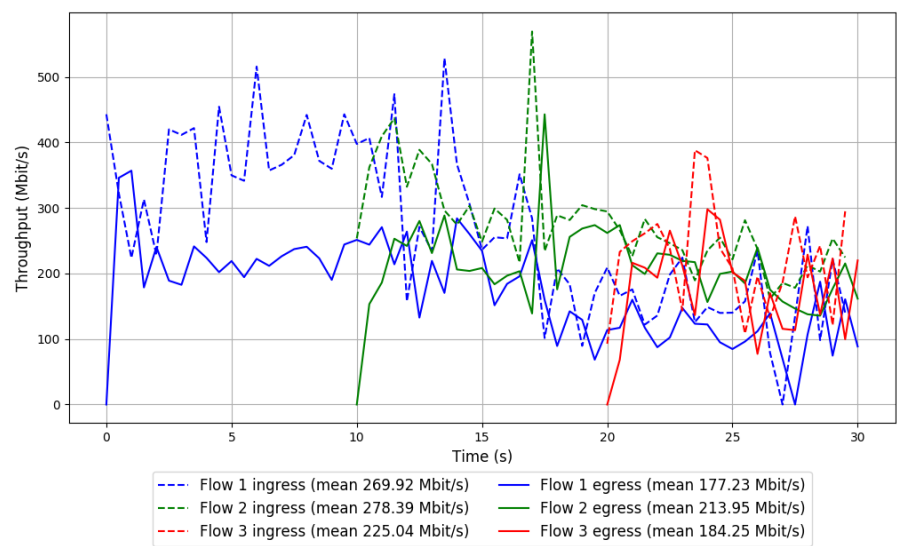
-- Flow 3:

Average throughput: 184.25 Mbit/s

95th percentile per-packet one-way delay: 39.144 ms

Loss rate: 18.12%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-24 15:20:13

End at: 2018-07-24 15:20:43

Local clock offset: 3.338 ms

Remote clock offset: 1.36 ms

Below is generated by plot.py at 2018-07-24 21:11:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 391.47 Mbit/s

95th percentile per-packet one-way delay: 42.662 ms

Loss rate: 23.47%

-- Flow 1:

Average throughput: 200.27 Mbit/s

95th percentile per-packet one-way delay: 47.351 ms

Loss rate: 23.01%

-- Flow 2:

Average throughput: 159.21 Mbit/s

95th percentile per-packet one-way delay: 25.397 ms

Loss rate: 14.48%

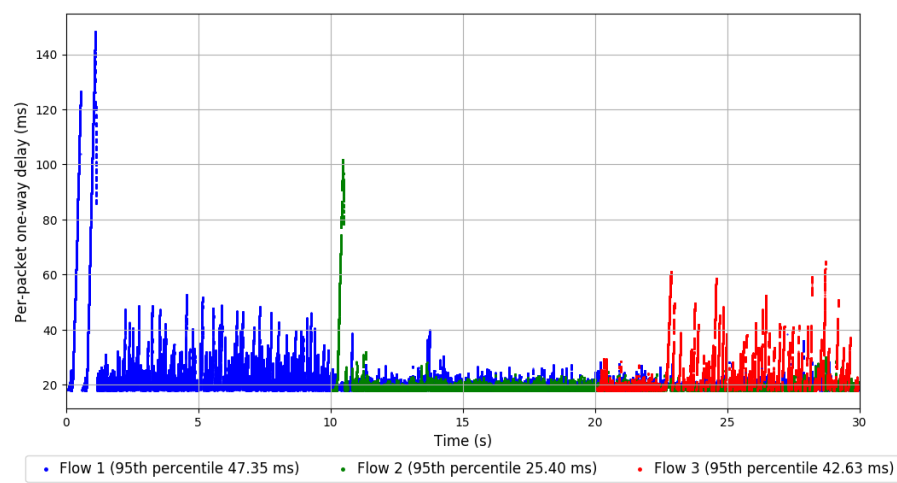
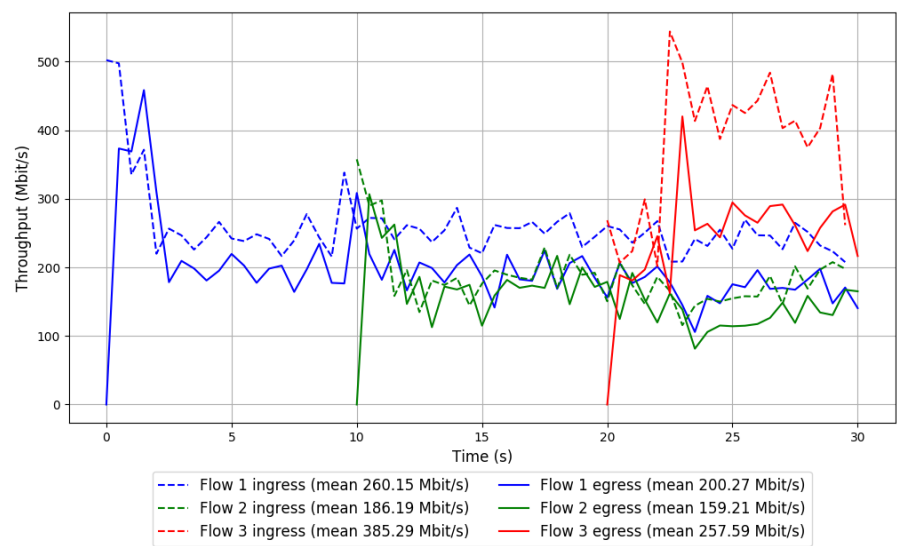
-- Flow 3:

Average throughput: 257.59 Mbit/s

95th percentile per-packet one-way delay: 42.626 ms

Loss rate: 33.14%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-24 15:47:38

End at: 2018-07-24 15:48:08

Local clock offset: 3.67 ms

Remote clock offset: 1.902 ms

Below is generated by plot.py at 2018-07-24 21:12:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 395.35 Mbit/s

95th percentile per-packet one-way delay: 44.936 ms

Loss rate: 26.94%

-- Flow 1:

Average throughput: 188.95 Mbit/s

95th percentile per-packet one-way delay: 64.360 ms

Loss rate: 23.16%

-- Flow 2:

Average throughput: 212.81 Mbit/s

95th percentile per-packet one-way delay: 39.810 ms

Loss rate: 30.44%

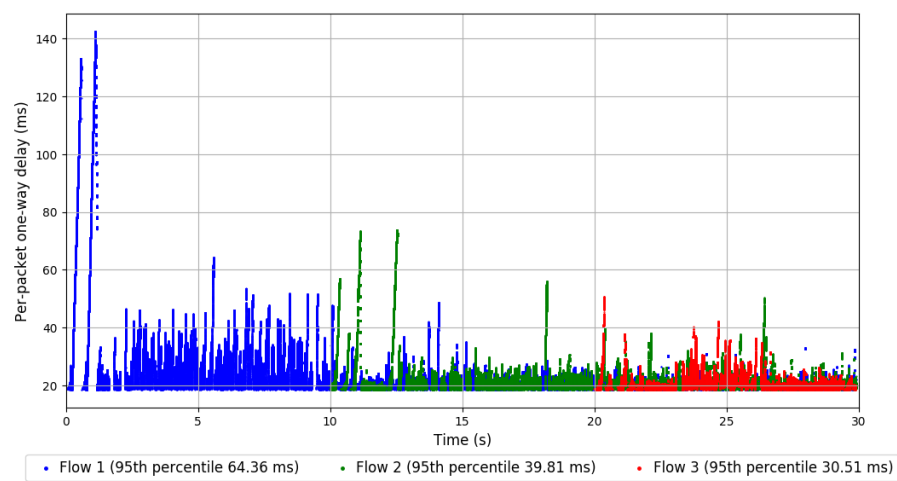
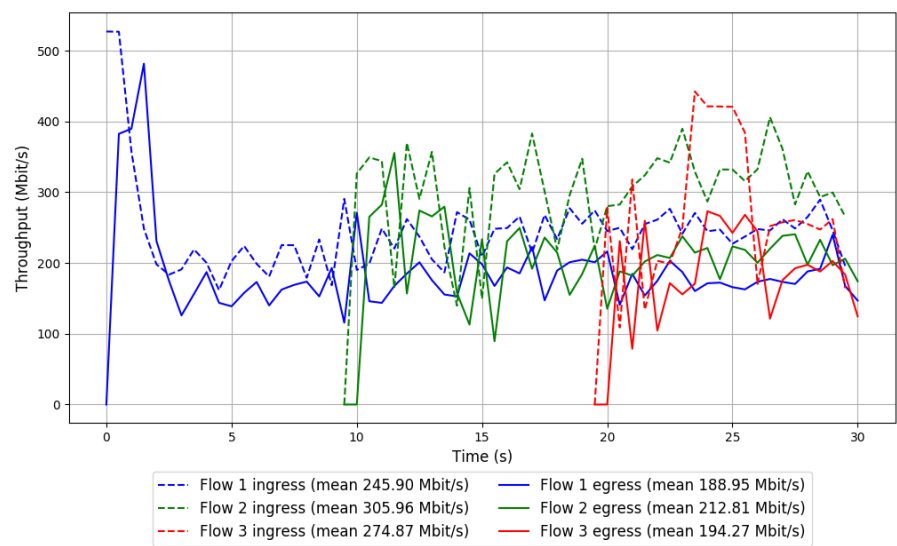
-- Flow 3:

Average throughput: 194.27 Mbit/s

95th percentile per-packet one-way delay: 30.513 ms

Loss rate: 29.31%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-24 16:15:00

End at: 2018-07-24 16:15:30

Local clock offset: 3.515 ms

Remote clock offset: 2.538 ms

Below is generated by plot.py at 2018-07-24 21:12:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 426.47 Mbit/s

95th percentile per-packet one-way delay: 47.526 ms

Loss rate: 23.05%

-- Flow 1:

Average throughput: 217.23 Mbit/s

95th percentile per-packet one-way delay: 37.673 ms

Loss rate: 20.99%

-- Flow 2:

Average throughput: 248.29 Mbit/s

95th percentile per-packet one-way delay: 61.874 ms

Loss rate: 24.47%

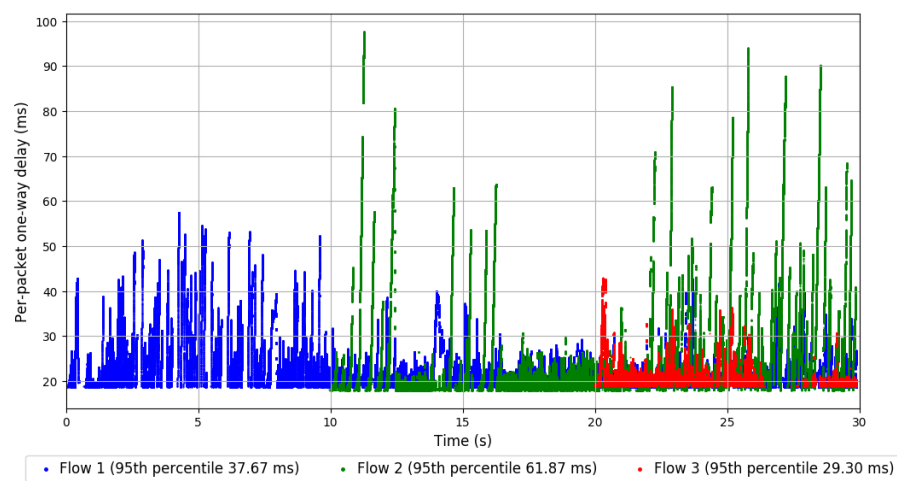
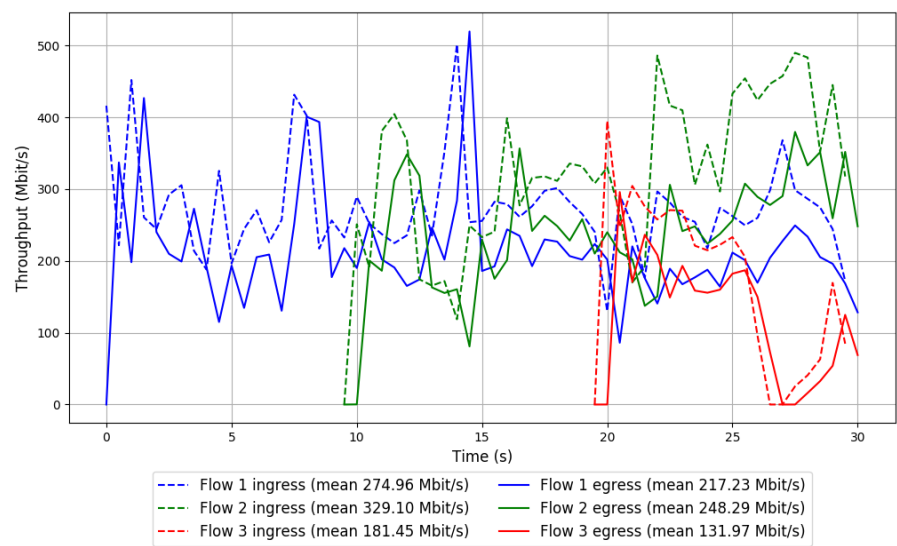
-- Flow 3:

Average throughput: 131.97 Mbit/s

95th percentile per-packet one-way delay: 29.295 ms

Loss rate: 27.27%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-24 16:42:06

End at: 2018-07-24 16:42:36

Local clock offset: 3.496 ms

Remote clock offset: 2.786 ms

Below is generated by plot.py at 2018-07-24 21:13:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 438.71 Mbit/s

95th percentile per-packet one-way delay: 39.619 ms

Loss rate: 23.21%

-- Flow 1:

Average throughput: 243.53 Mbit/s

95th percentile per-packet one-way delay: 34.628 ms

Loss rate: 18.58%

-- Flow 2:

Average throughput: 186.90 Mbit/s

95th percentile per-packet one-way delay: 37.921 ms

Loss rate: 30.86%

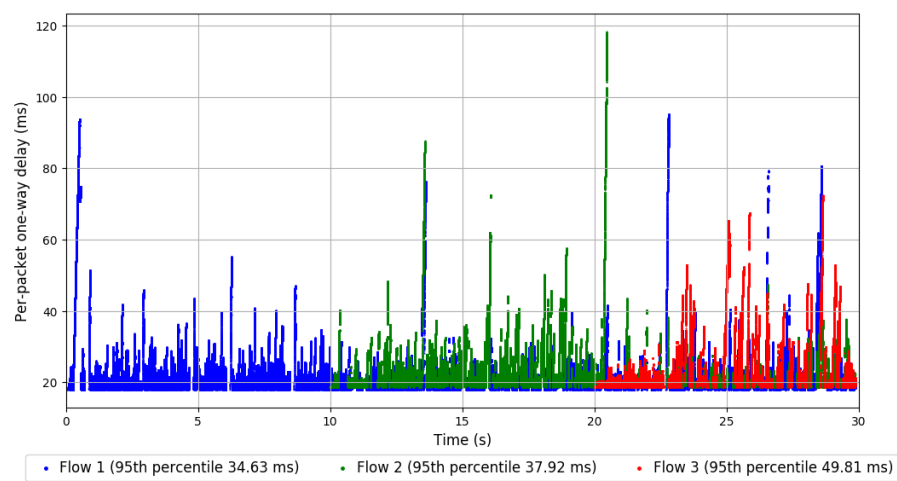
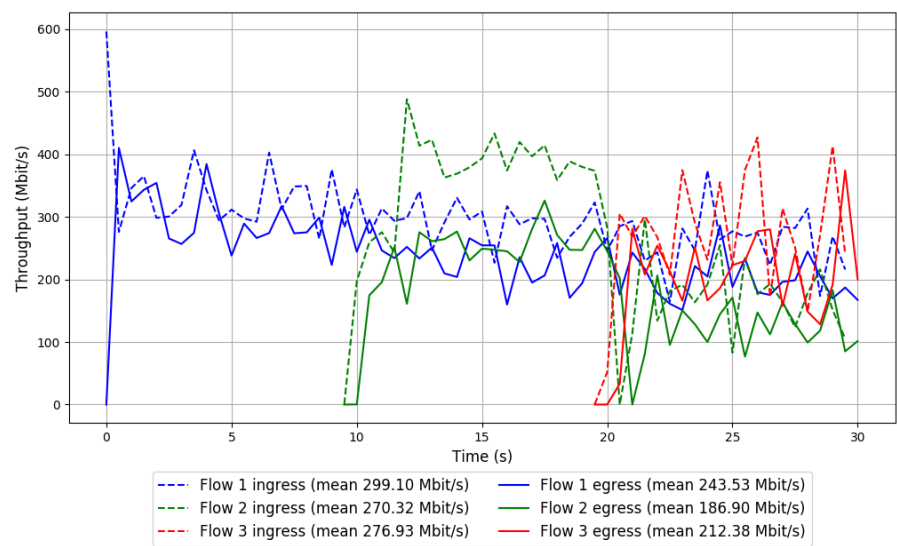
-- Flow 3:

Average throughput: 212.38 Mbit/s

95th percentile per-packet one-way delay: 49.809 ms

Loss rate: 23.30%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-24 17:09:27

End at: 2018-07-24 17:09:57

Local clock offset: 3.627 ms

Remote clock offset: 2.73 ms

Below is generated by plot.py at 2018-07-24 21:13:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 436.06 Mbit/s

95th percentile per-packet one-way delay: 28.759 ms

Loss rate: 22.81%

-- Flow 1:

Average throughput: 247.37 Mbit/s

95th percentile per-packet one-way delay: 27.708 ms

Loss rate: 20.46%

-- Flow 2:

Average throughput: 215.44 Mbit/s

95th percentile per-packet one-way delay: 29.428 ms

Loss rate: 26.03%

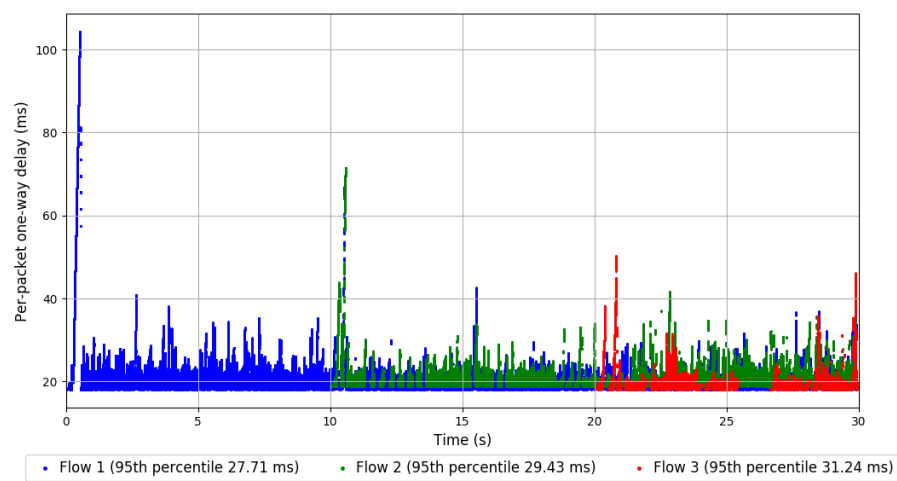
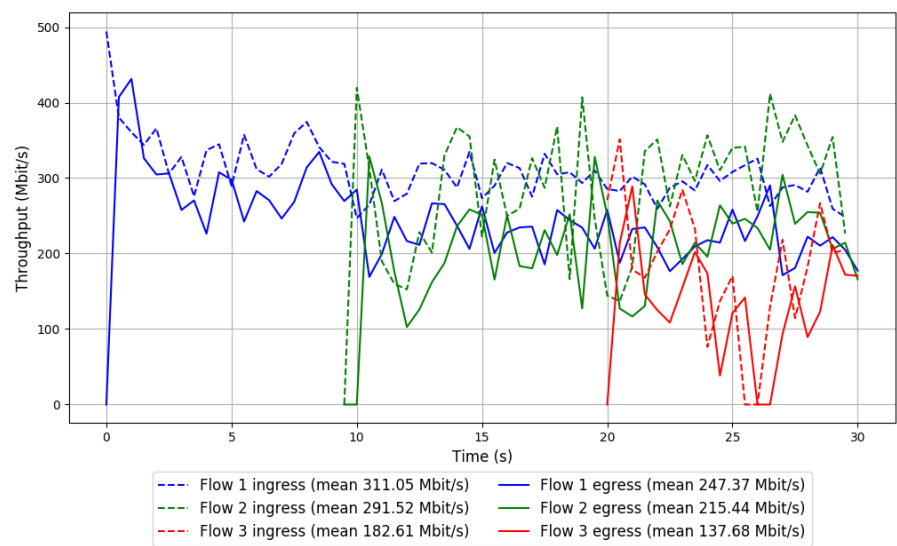
-- Flow 3:

Average throughput: 137.68 Mbit/s

95th percentile per-packet one-way delay: 31.236 ms

Loss rate: 24.60%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-24 17:37:03

End at: 2018-07-24 17:37:33

Local clock offset: 3.338 ms

Remote clock offset: 2.609 ms

Below is generated by plot.py at 2018-07-24 21:14:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 400.64 Mbit/s

95th percentile per-packet one-way delay: 36.806 ms

Loss rate: 22.05%

-- Flow 1:

Average throughput: 213.89 Mbit/s

95th percentile per-packet one-way delay: 38.256 ms

Loss rate: 25.09%

-- Flow 2:

Average throughput: 198.35 Mbit/s

95th percentile per-packet one-way delay: 36.397 ms

Loss rate: 15.58%

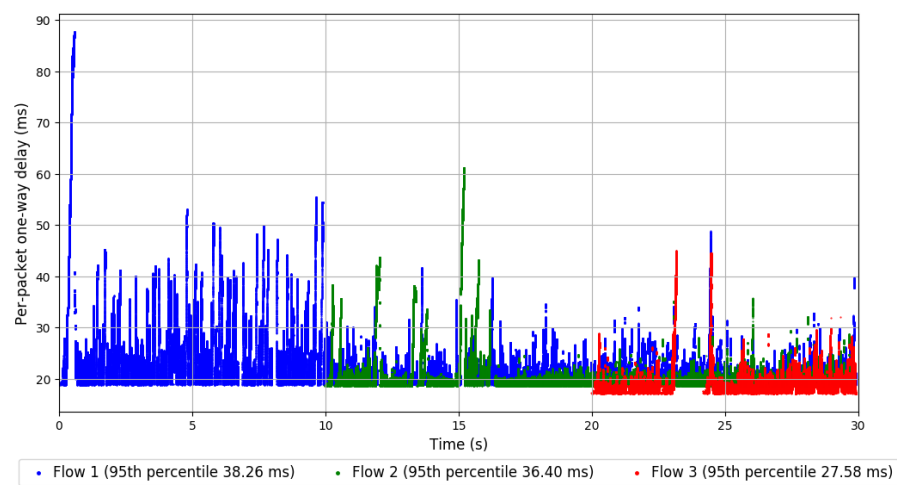
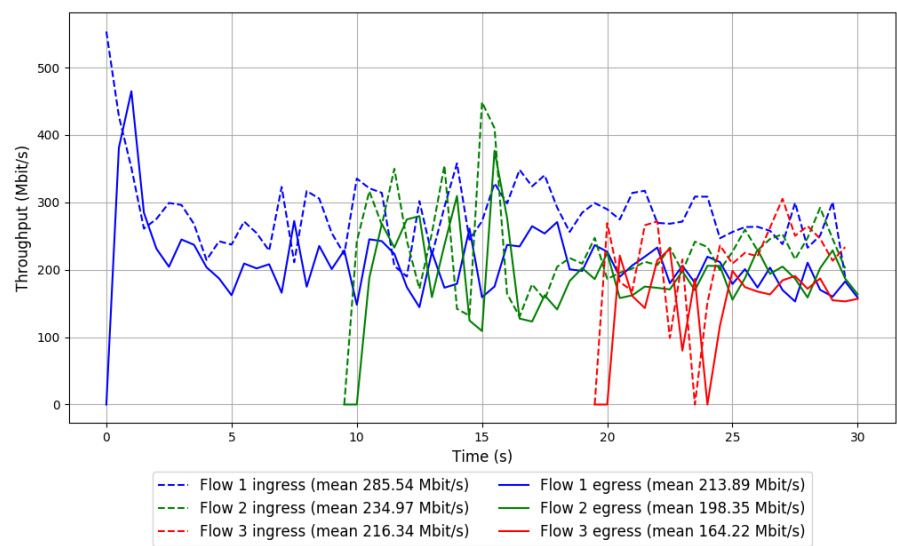
-- Flow 3:

Average throughput: 164.22 Mbit/s

95th percentile per-packet one-way delay: 27.582 ms

Loss rate: 24.09%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-24 18:04:05

End at: 2018-07-24 18:04:35

Local clock offset: 3.266 ms

Remote clock offset: 2.189 ms

Below is generated by plot.py at 2018-07-24 21:15:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 378.18 Mbit/s

95th percentile per-packet one-way delay: 30.847 ms

Loss rate: 22.80%

-- Flow 1:

Average throughput: 189.43 Mbit/s

95th percentile per-packet one-way delay: 36.591 ms

Loss rate: 24.66%

-- Flow 2:

Average throughput: 214.68 Mbit/s

95th percentile per-packet one-way delay: 23.538 ms

Loss rate: 20.39%

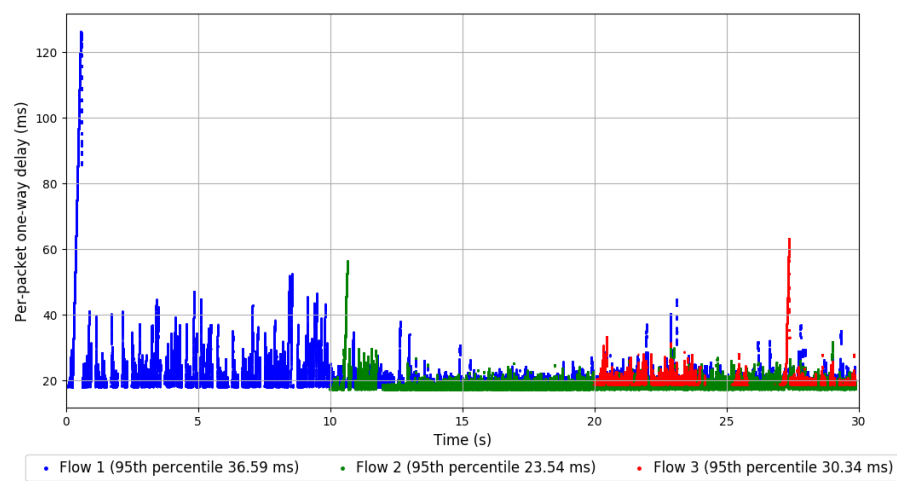
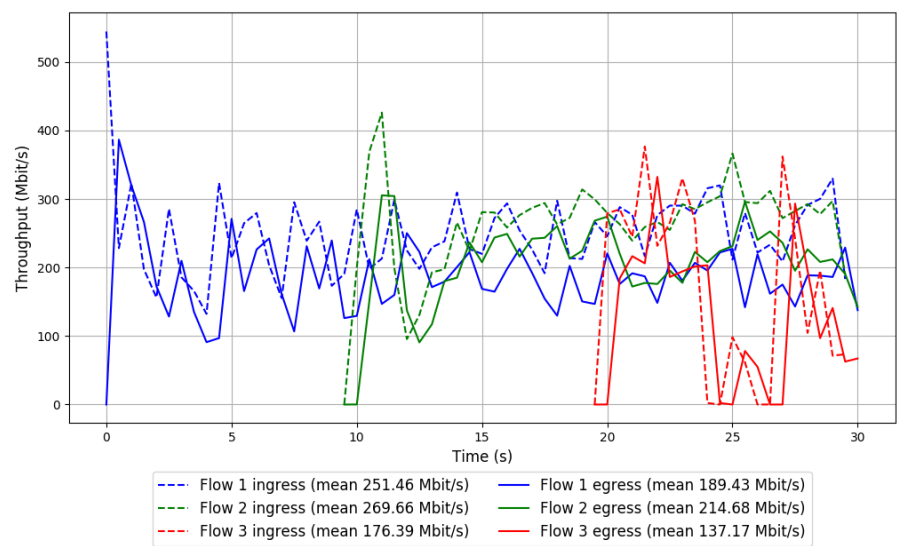
-- Flow 3:

Average throughput: 137.17 Mbit/s

95th percentile per-packet one-way delay: 30.339 ms

Loss rate: 22.24%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-24 18:31:11

End at: 2018-07-24 18:31:41

Local clock offset: 3.958 ms

Remote clock offset: 1.956 ms

Below is generated by plot.py at 2018-07-24 21:16:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.27 Mbit/s

95th percentile per-packet one-way delay: 30.992 ms

Loss rate: 21.08%

-- Flow 1:

Average throughput: 219.51 Mbit/s

95th percentile per-packet one-way delay: 29.837 ms

Loss rate: 20.62%

-- Flow 2:

Average throughput: 189.64 Mbit/s

95th percentile per-packet one-way delay: 38.402 ms

Loss rate: 19.90%

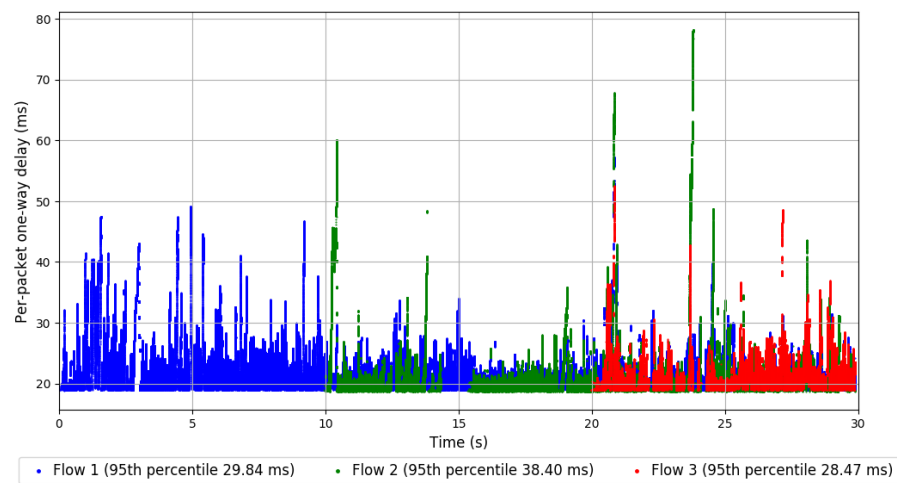
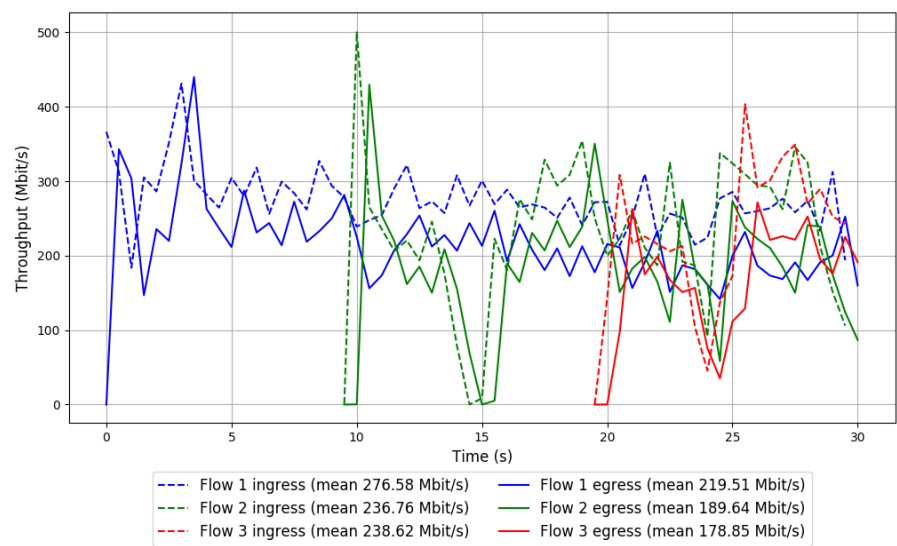
-- Flow 3:

Average throughput: 178.85 Mbit/s

95th percentile per-packet one-way delay: 28.467 ms

Loss rate: 25.01%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-24 14:32:07

End at: 2018-07-24 14:32:37

Local clock offset: 3.512 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-07-24 21:17:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 566.25 Mbit/s

95th percentile per-packet one-way delay: 29.047 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 331.21 Mbit/s

95th percentile per-packet one-way delay: 30.591 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 303.47 Mbit/s

95th percentile per-packet one-way delay: 27.637 ms

Loss rate: 0.20%

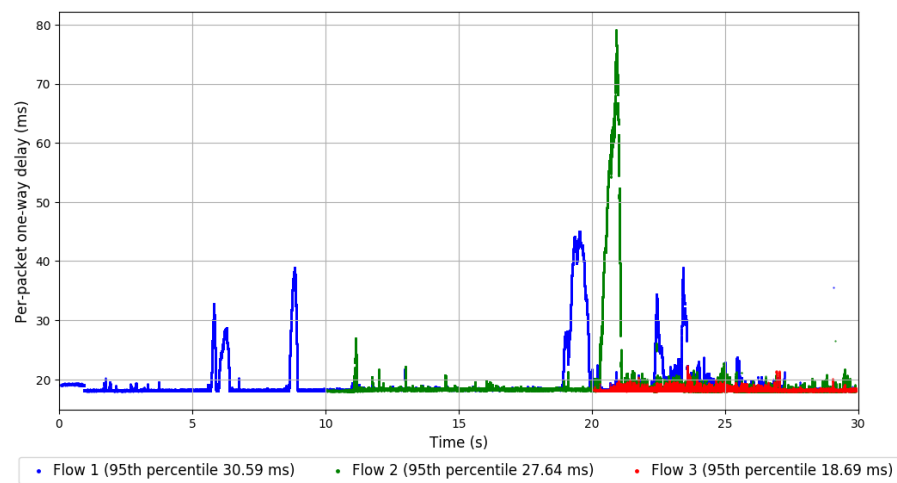
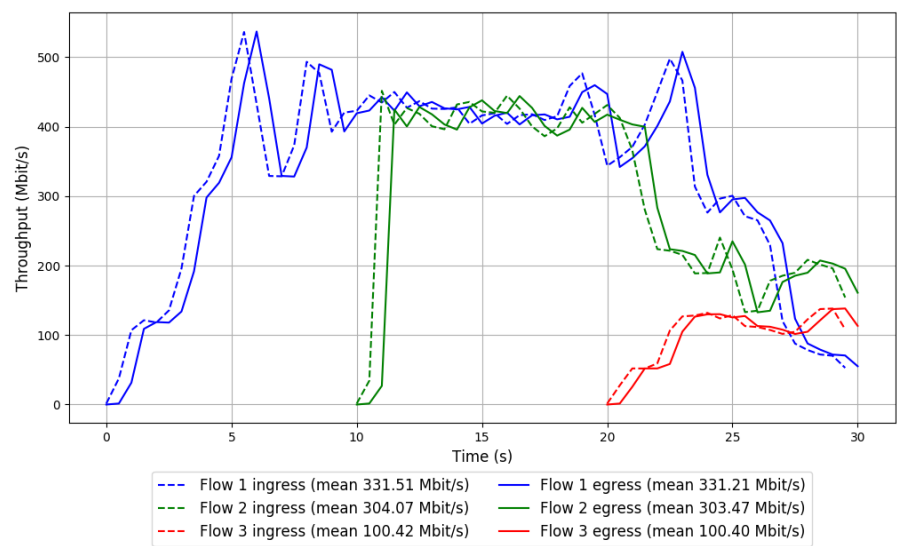
-- Flow 3:

Average throughput: 100.40 Mbit/s

95th percentile per-packet one-way delay: 18.691 ms

Loss rate: 0.02%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-24 14:59:11

End at: 2018-07-24 14:59:41

Local clock offset: 4.024 ms

Remote clock offset: 0.953 ms

Below is generated by plot.py at 2018-07-24 21:19:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 614.91 Mbit/s

95th percentile per-packet one-way delay: 66.510 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 360.36 Mbit/s

95th percentile per-packet one-way delay: 98.333 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 338.31 Mbit/s

95th percentile per-packet one-way delay: 34.453 ms

Loss rate: 0.95%

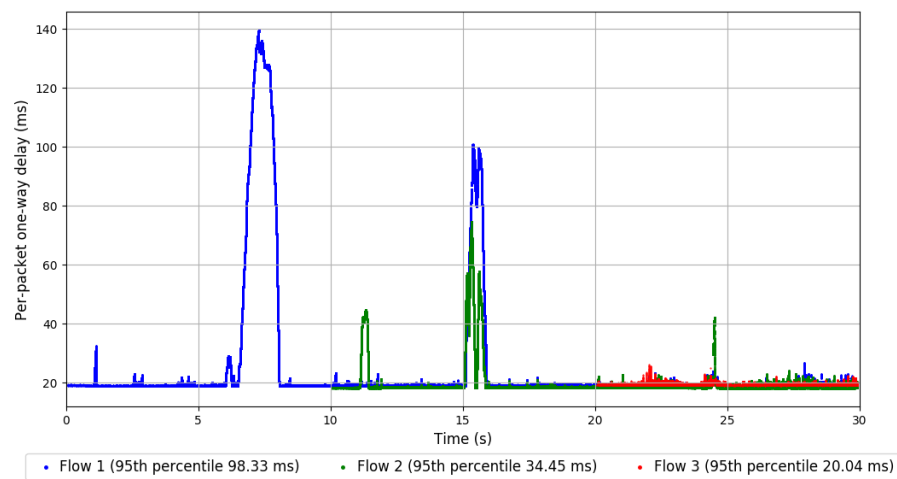
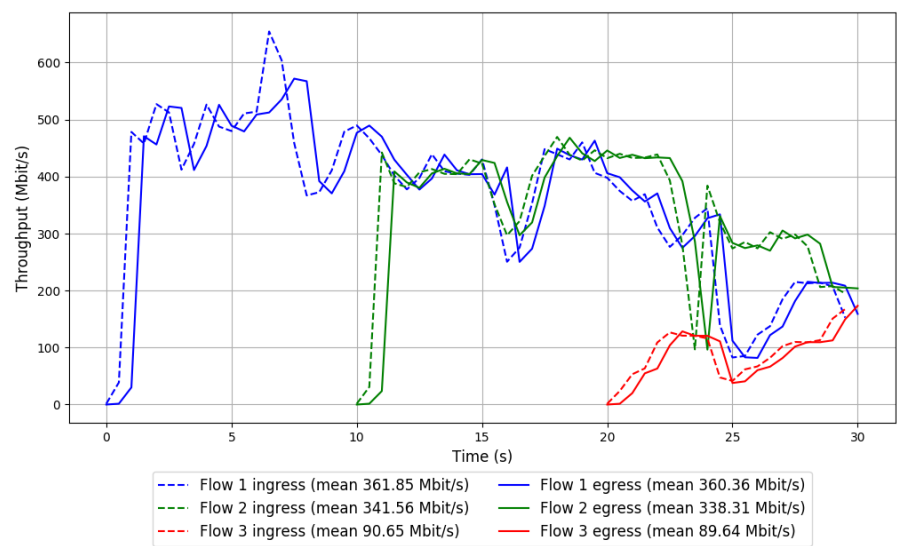
-- Flow 3:

Average throughput: 89.64 Mbit/s

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

Loss rate: 1.16%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-24 15:26:30

End at: 2018-07-24 15:27:00

Local clock offset: 3.294 ms

Remote clock offset: 1.531 ms

Below is generated by plot.py at 2018-07-24 21:19:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 597.69 Mbit/s

95th percentile per-packet one-way delay: 56.942 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 389.36 Mbit/s

95th percentile per-packet one-way delay: 84.942 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 275.04 Mbit/s

95th percentile per-packet one-way delay: 24.051 ms

Loss rate: 0.12%

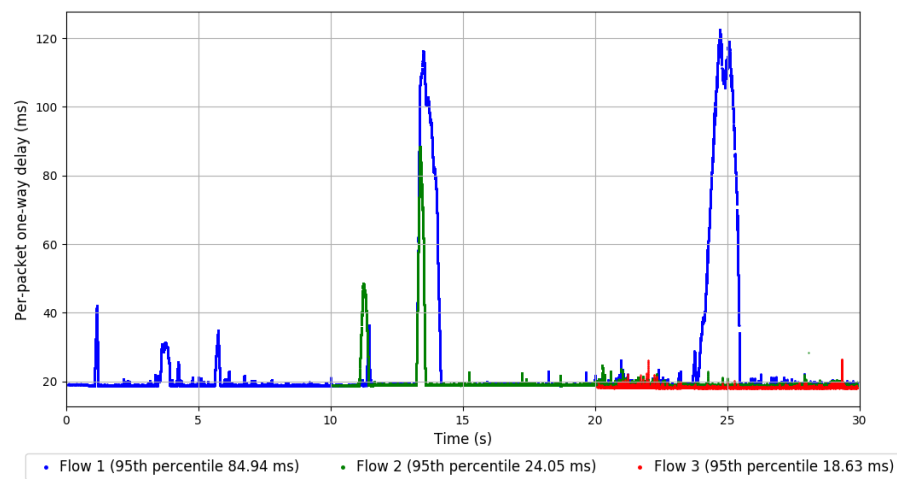
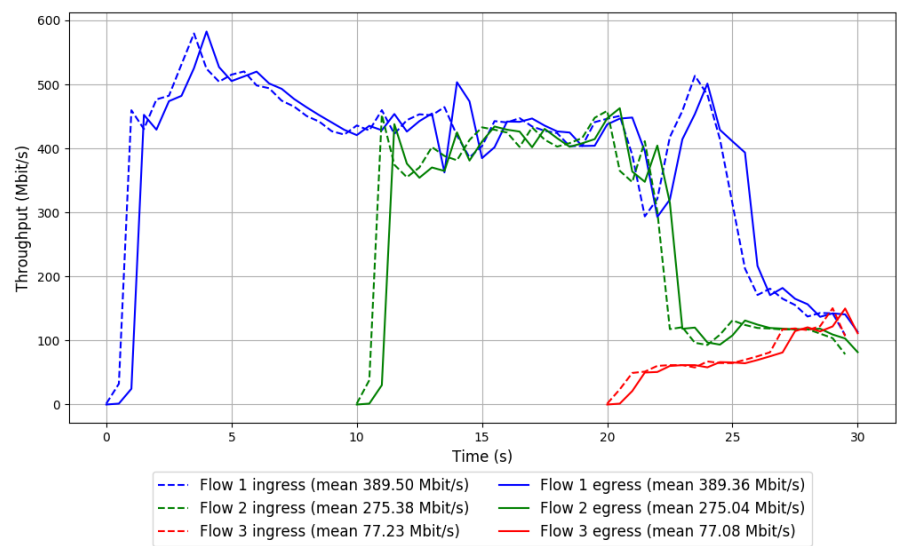
-- Flow 3:

Average throughput: 77.08 Mbit/s

95th percentile per-packet one-way delay: 18.633 ms

Loss rate: 0.20%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-24 15:53:56

End at: 2018-07-24 15:54:26

Local clock offset: 3.674 ms

Remote clock offset: 2.077 ms

Below is generated by plot.py at 2018-07-24 21:21:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 629.15 Mbit/s

95th percentile per-packet one-way delay: 43.038 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 390.38 Mbit/s

95th percentile per-packet one-way delay: 44.605 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 261.51 Mbit/s

95th percentile per-packet one-way delay: 45.954 ms

Loss rate: 0.72%

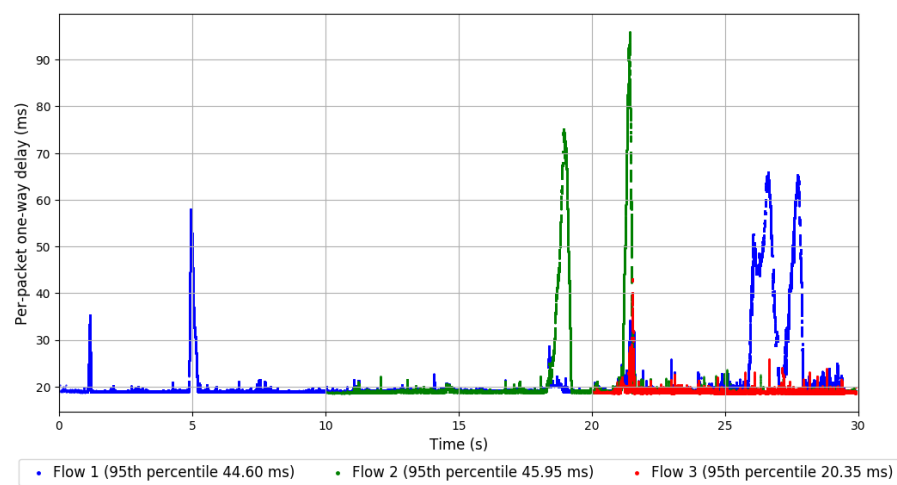
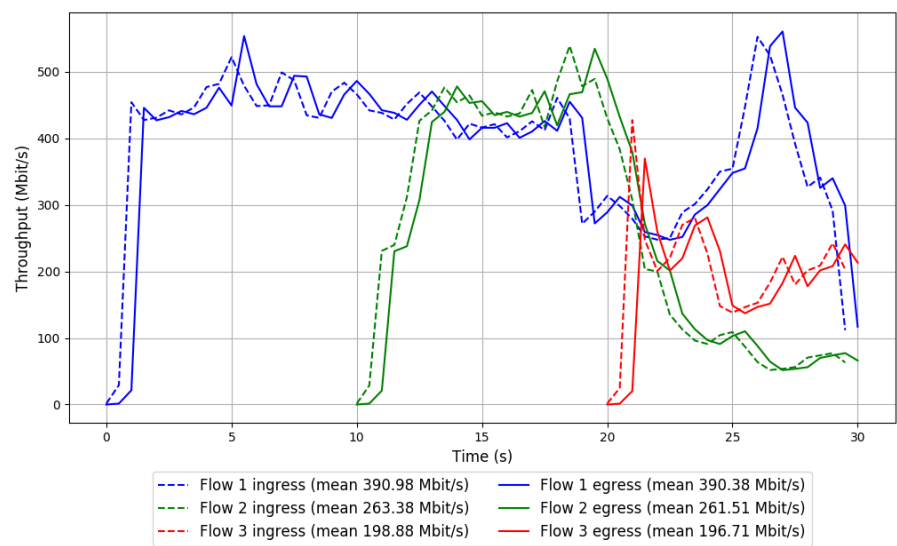
-- Flow 3:

Average throughput: 196.71 Mbit/s

95th percentile per-packet one-way delay: 20.347 ms

Loss rate: 1.08%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-24 16:21:14

End at: 2018-07-24 16:21:44

Local clock offset: 3.525 ms

Remote clock offset: 2.697 ms

Below is generated by plot.py at 2018-07-24 21:21:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 629.63 Mbit/s

95th percentile per-packet one-way delay: 23.143 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 385.92 Mbit/s

95th percentile per-packet one-way delay: 36.670 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 327.38 Mbit/s

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

Loss rate: 0.52%

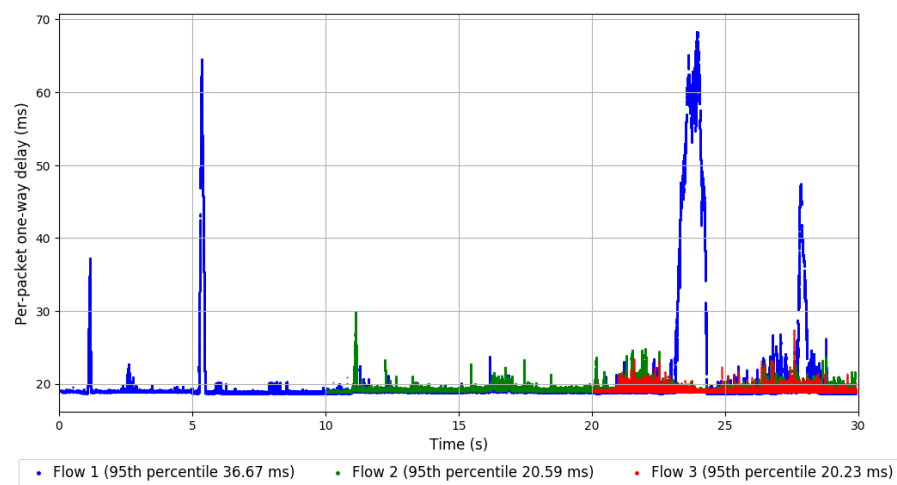
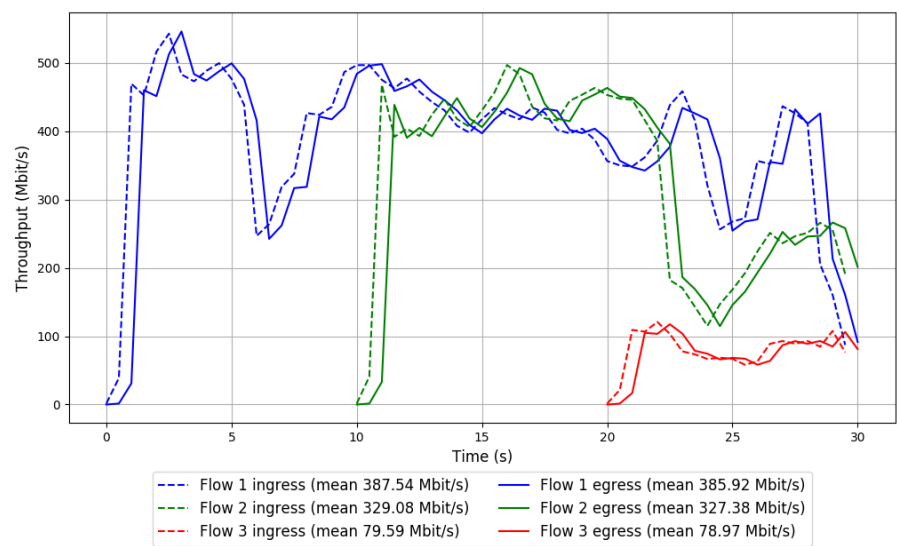
-- Flow 3:

Average throughput: 78.97 Mbit/s

95th percentile per-packet one-way delay: 20.235 ms

Loss rate: 0.78%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-24 16:48:22

End at: 2018-07-24 16:48:52

Local clock offset: 3.429 ms

Remote clock offset: 2.767 ms

Below is generated by plot.py at 2018-07-24 21:22:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 623.55 Mbit/s

95th percentile per-packet one-way delay: 93.590 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 378.73 Mbit/s

95th percentile per-packet one-way delay: 25.333 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 304.92 Mbit/s

95th percentile per-packet one-way delay: 150.382 ms

Loss rate: 3.10%

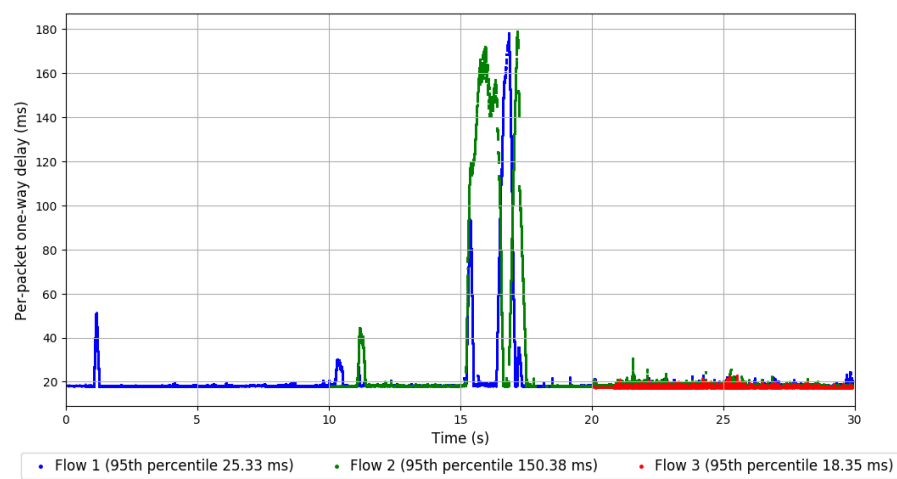
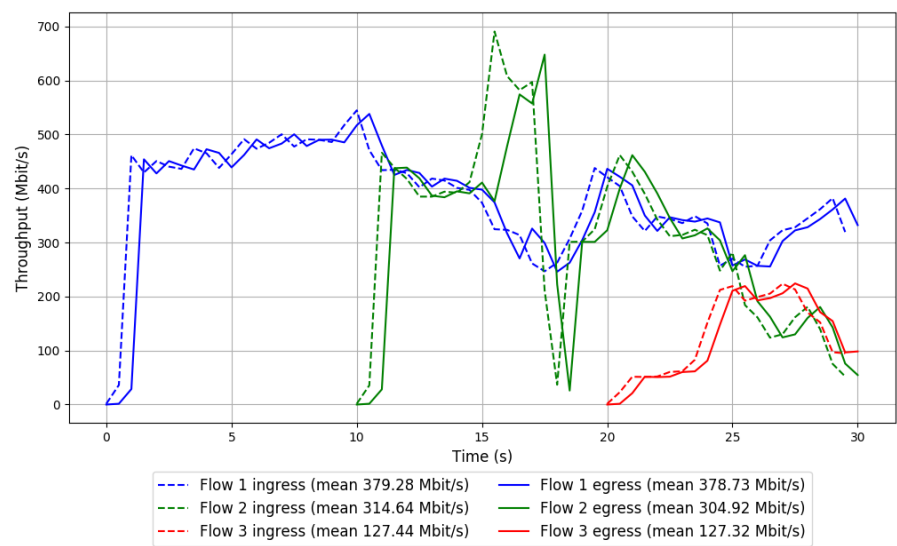
-- Flow 3:

Average throughput: 127.32 Mbit/s

95th percentile per-packet one-way delay: 18.351 ms

Loss rate: 0.08%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-24 17:15:49

End at: 2018-07-24 17:16:19

Local clock offset: 3.583 ms

Remote clock offset: 2.787 ms

Below is generated by plot.py at 2018-07-24 21:22:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 597.92 Mbit/s

95th percentile per-packet one-way delay: 18.843 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 337.11 Mbit/s

95th percentile per-packet one-way delay: 17.899 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 313.54 Mbit/s

95th percentile per-packet one-way delay: 17.949 ms

Loss rate: 0.17%

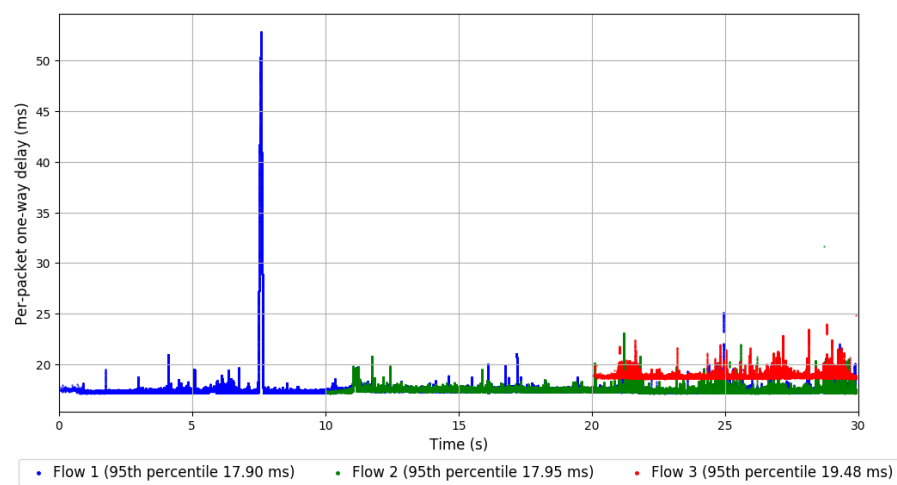
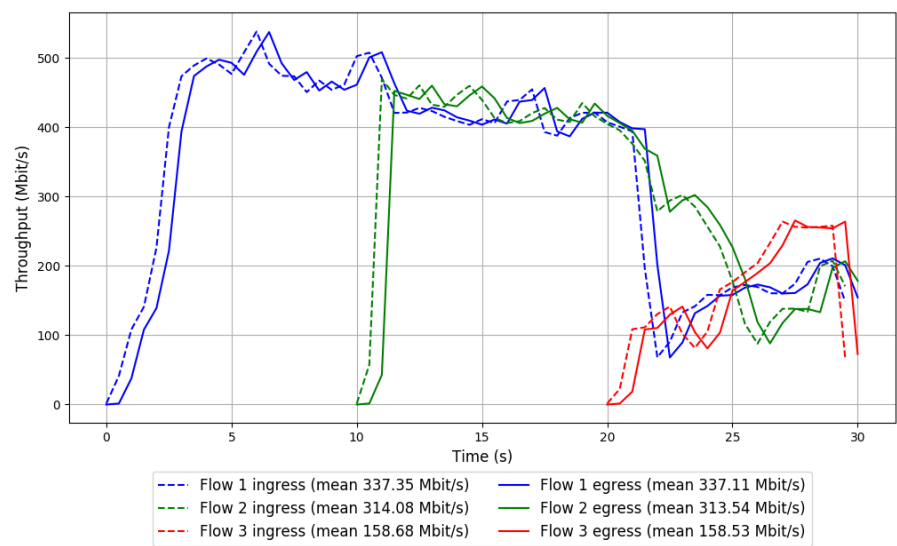
-- Flow 3:

Average throughput: 158.53 Mbit/s

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

Loss rate: 0.05%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-24 17:43:15

End at: 2018-07-24 17:43:45

Local clock offset: 3.155 ms

Remote clock offset: 2.551 ms

Below is generated by plot.py at 2018-07-24 21:22:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 627.56 Mbit/s

95th percentile per-packet one-way delay: 20.535 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 381.88 Mbit/s

95th percentile per-packet one-way delay: 23.694 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 292.61 Mbit/s

95th percentile per-packet one-way delay: 19.756 ms

Loss rate: 0.24%

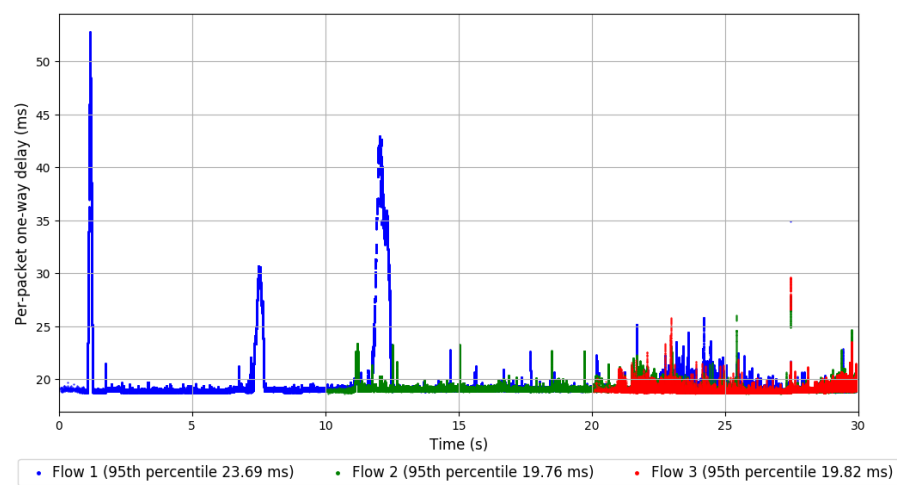
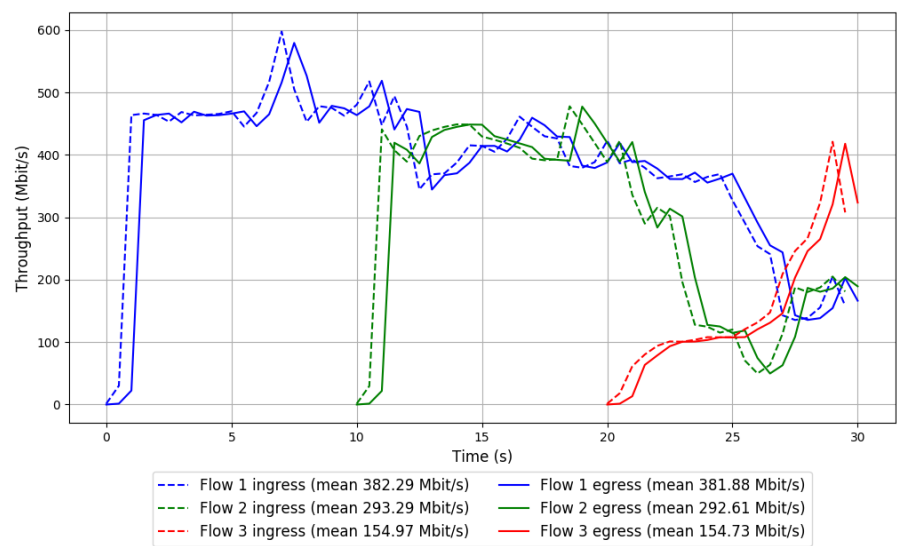
-- Flow 3:

Average throughput: 154.73 Mbit/s

95th percentile per-packet one-way delay: 19.815 ms

Loss rate: 0.16%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-24 18:10:17

End at: 2018-07-24 18:10:47

Local clock offset: 3.354 ms

Remote clock offset: 2.084 ms

Below is generated by plot.py at 2018-07-24 21:23:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 561.86 Mbit/s

95th percentile per-packet one-way delay: 33.150 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 357.96 Mbit/s

95th percentile per-packet one-way delay: 40.779 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 281.27 Mbit/s

95th percentile per-packet one-way delay: 22.356 ms

Loss rate: 0.54%

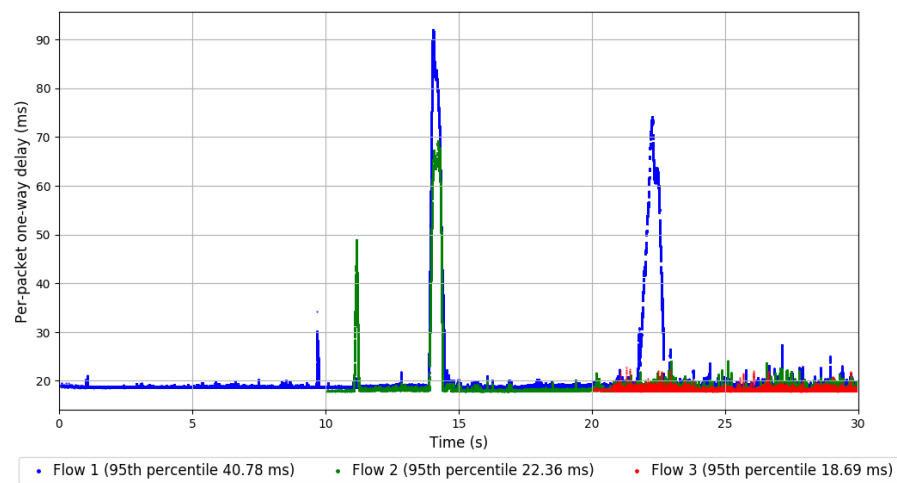
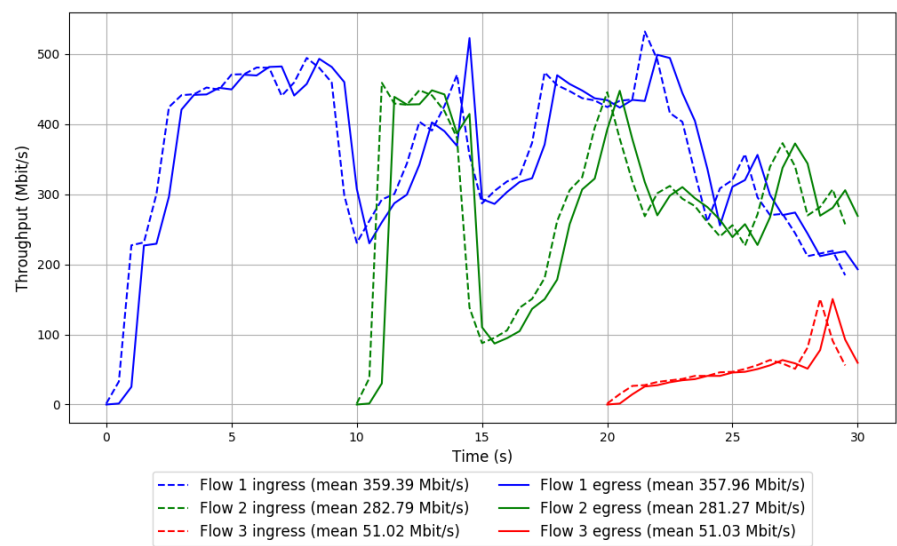
-- Flow 3:

Average throughput: 51.03 Mbit/s

95th percentile per-packet one-way delay: 18.693 ms

Loss rate: 0.05%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-24 18:37:25

End at: 2018-07-24 18:37:55

Local clock offset: 3.728 ms

Remote clock offset: 1.923 ms

Below is generated by plot.py at 2018-07-24 21:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 592.69 Mbit/s

95th percentile per-packet one-way delay: 19.940 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 352.78 Mbit/s

95th percentile per-packet one-way delay: 19.842 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 324.76 Mbit/s

95th percentile per-packet one-way delay: 20.067 ms

Loss rate: 0.12%

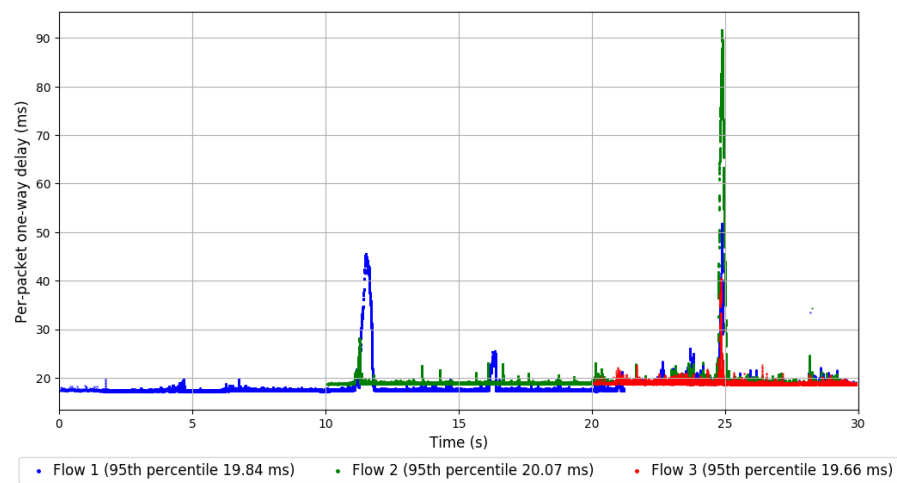
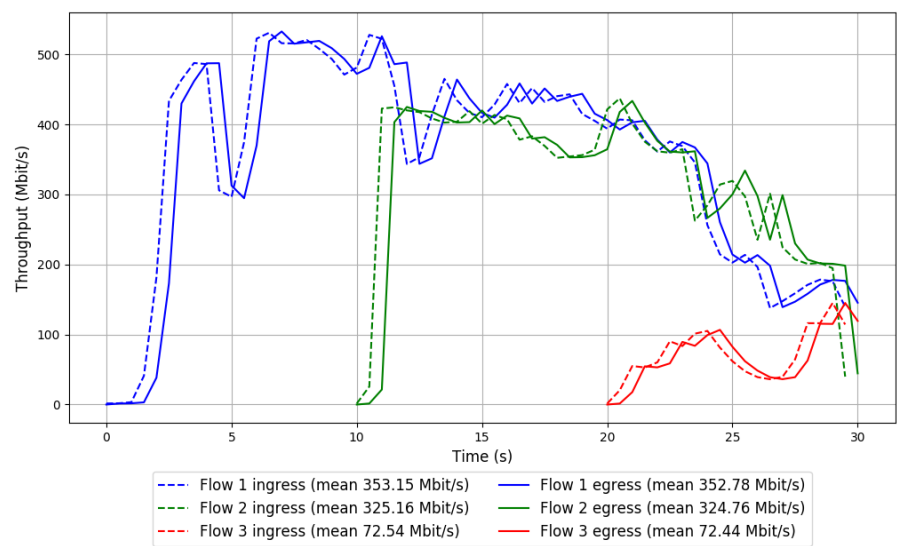
-- Flow 3:

Average throughput: 72.44 Mbit/s

95th percentile per-packet one-way delay: 19.660 ms

Loss rate: 0.15%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-24 14:46:23

End at: 2018-07-24 14:46:53

Local clock offset: 3.875 ms

Remote clock offset: 0.498 ms

Below is generated by plot.py at 2018-07-24 21:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.60 Mbit/s

95th percentile per-packet one-way delay: 21.135 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 20.745 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 21.628 ms

Loss rate: 0.09%

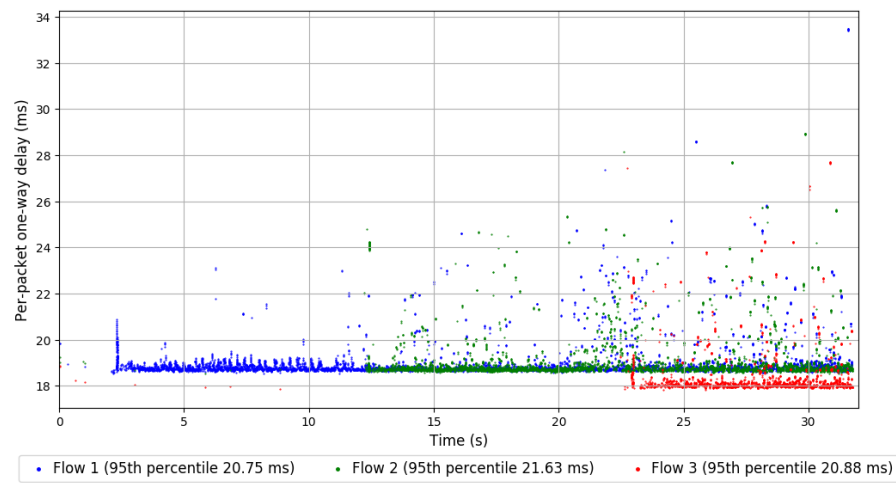
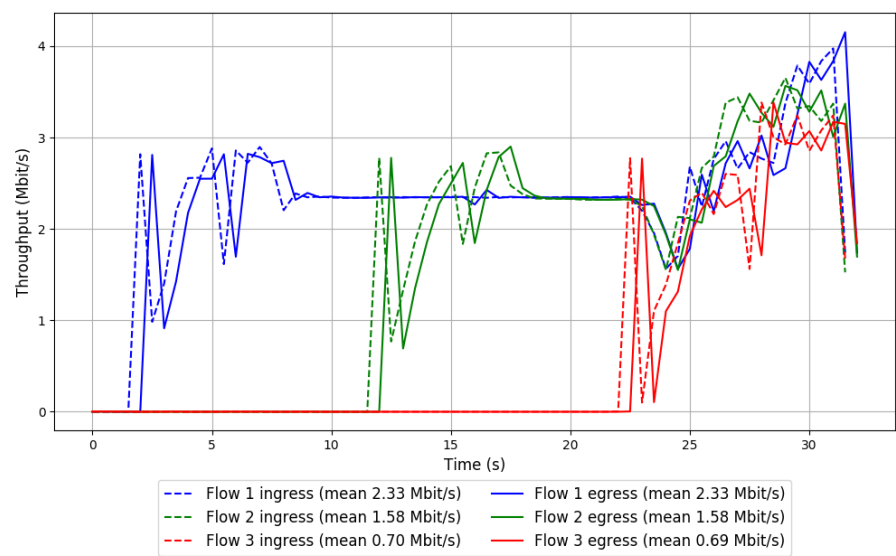
-- Flow 3:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 20.882 ms

Loss rate: 0.78%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-24 15:13:37

End at: 2018-07-24 15:14:07

Local clock offset: 3.567 ms

Remote clock offset: 1.312 ms

Below is generated by plot.py at 2018-07-24 21:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 19.978 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 18.879 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 19.900 ms

Loss rate: 0.00%

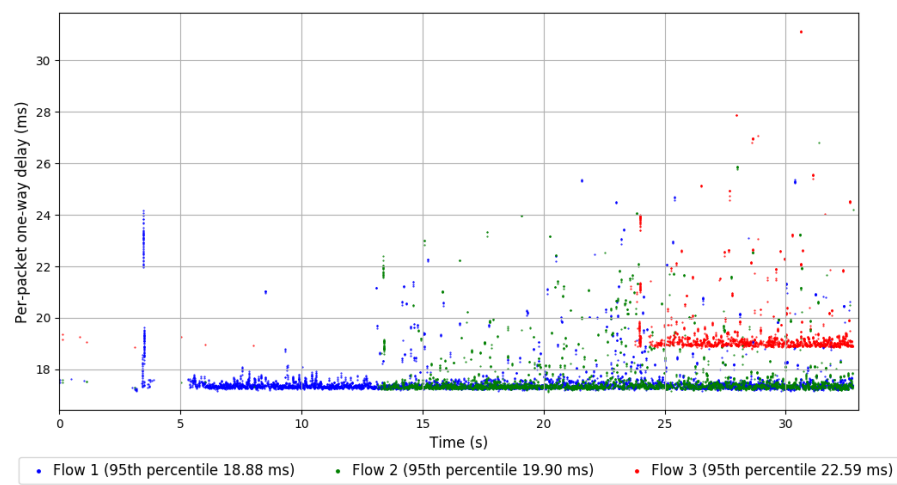
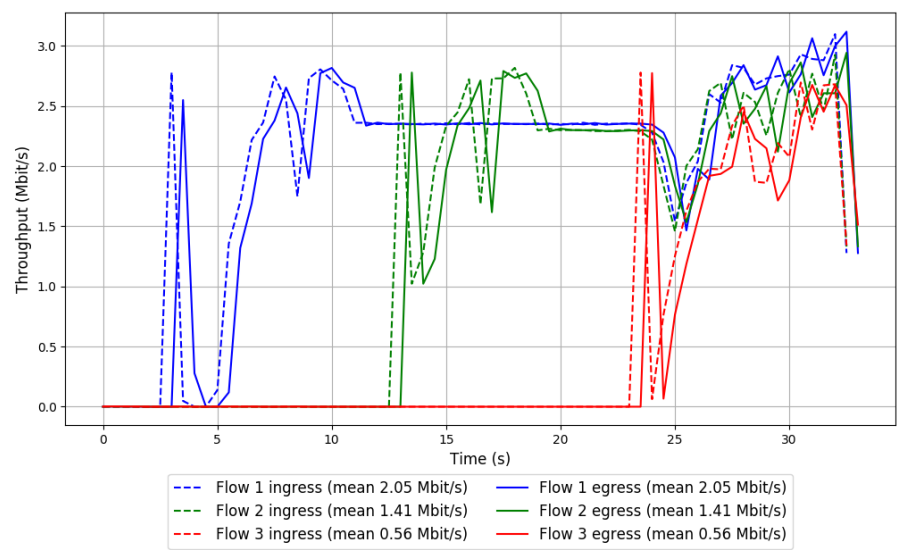
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 22.587 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-24 15:41:00

End at: 2018-07-24 15:41:30

Local clock offset: 3.598 ms

Remote clock offset: 1.808 ms

Below is generated by plot.py at 2018-07-24 21:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.03 Mbit/s

95th percentile per-packet one-way delay: 20.320 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 19.920 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 20.590 ms

Loss rate: 0.03%

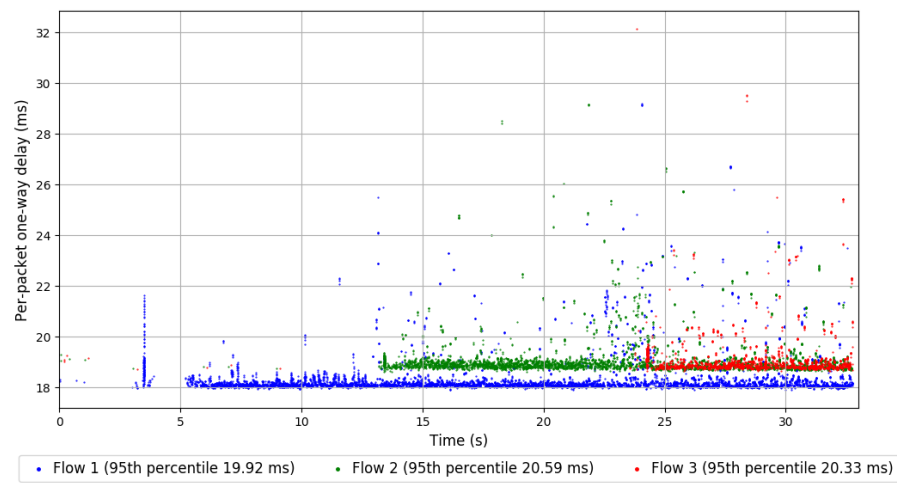
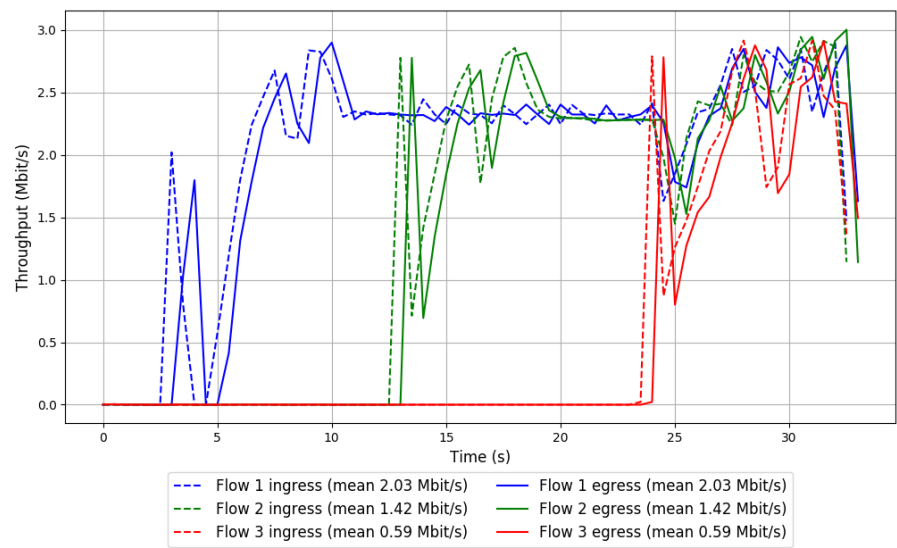
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 20.333 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-24 16:08:23

End at: 2018-07-24 16:08:53

Local clock offset: 3.585 ms

Remote clock offset: 2.29 ms

Below is generated by plot.py at 2018-07-24 21:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 20.206 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 19.701 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 20.588 ms

Loss rate: 0.00%

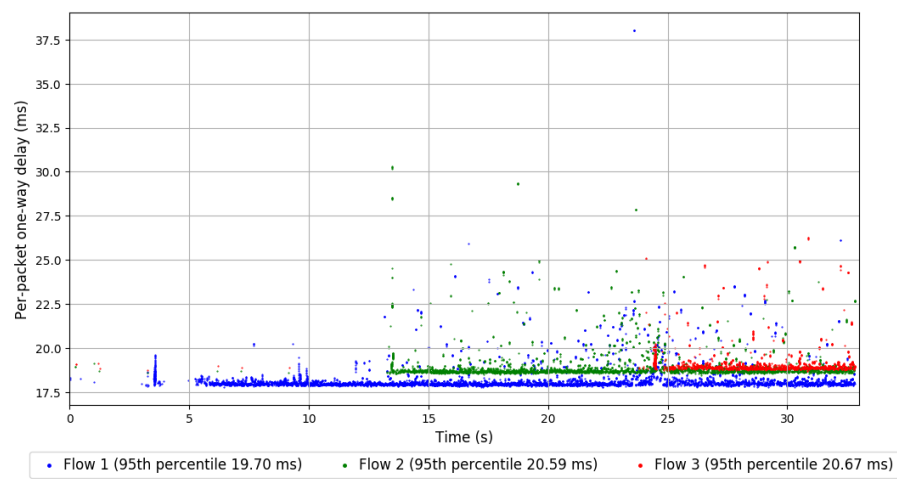
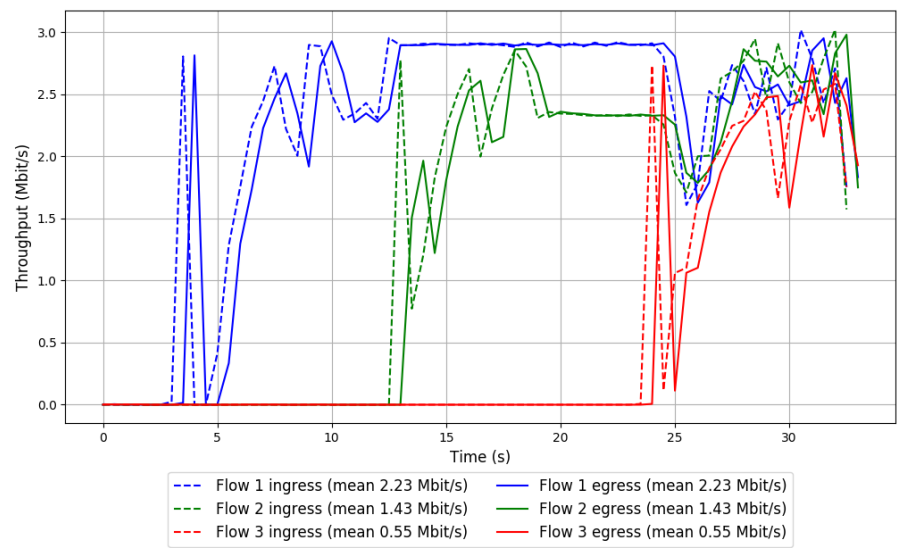
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 20.667 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-24 16:35:29

End at: 2018-07-24 16:35:59

Local clock offset: 3.503 ms

Remote clock offset: 2.943 ms

Below is generated by plot.py at 2018-07-24 21:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 20.221 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 18.982 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 21.186 ms

Loss rate: 0.29%

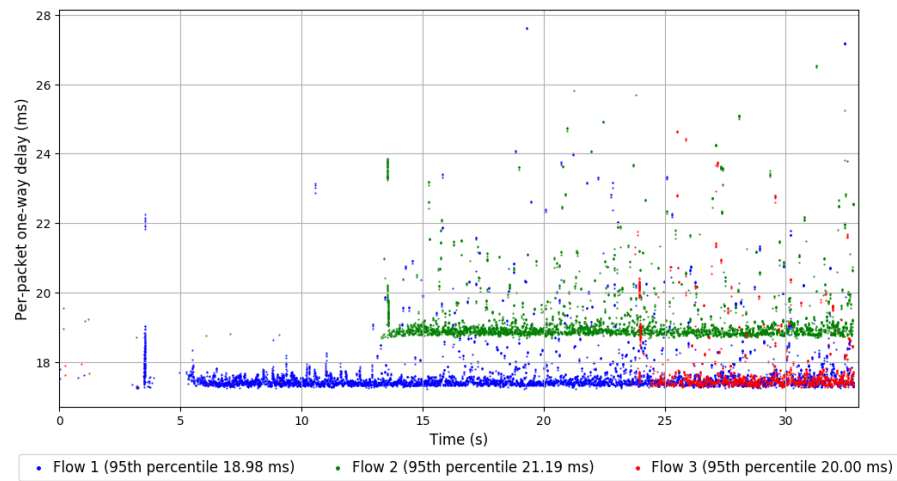
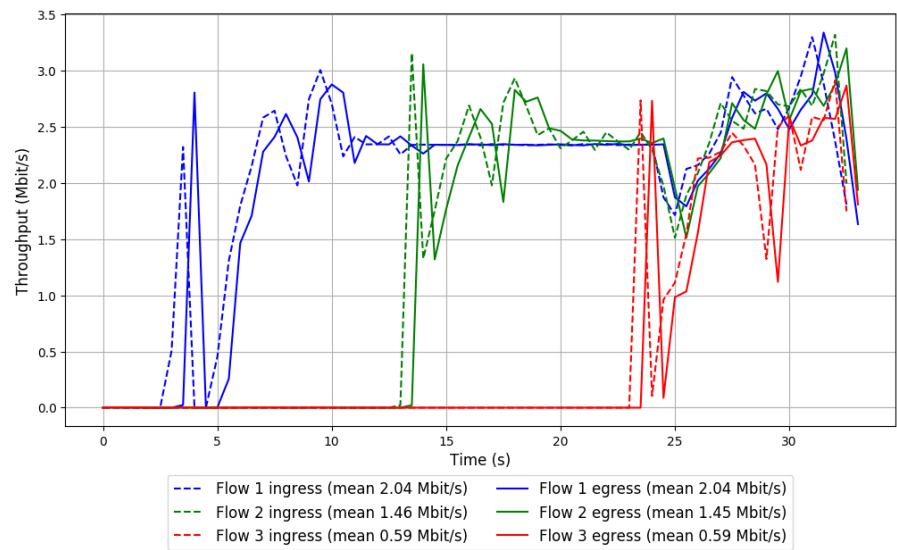
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 20.005 ms

Loss rate: 0.28%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-24 17:02:46

End at: 2018-07-24 17:03:16

Local clock offset: 3.599 ms

Remote clock offset: 2.747 ms

Below is generated by plot.py at 2018-07-24 21:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.54 Mbit/s

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

Loss rate: 0.05%

-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 20.614 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 21.114 ms

Loss rate: 0.02%

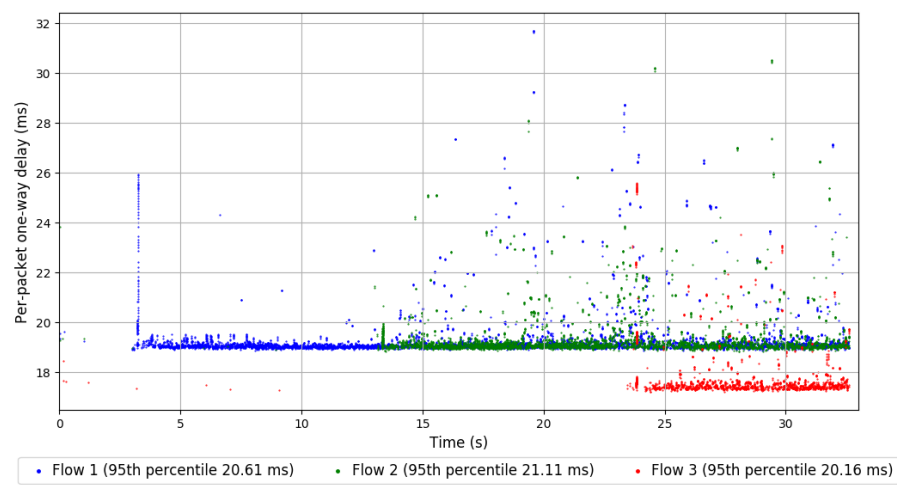
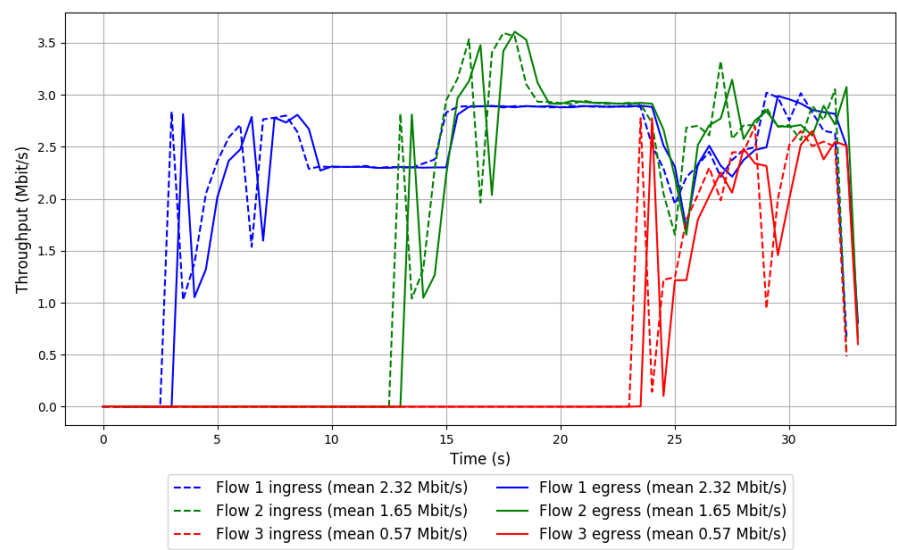
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 20.157 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-24 17:30:14

End at: 2018-07-24 17:30:44

Local clock offset: 3.384 ms

Remote clock offset: 2.662 ms

Below is generated by plot.py at 2018-07-24 21:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.57 Mbit/s

95th percentile per-packet one-way delay: 20.340 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 20.574 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 19.527 ms

Loss rate: 0.00%

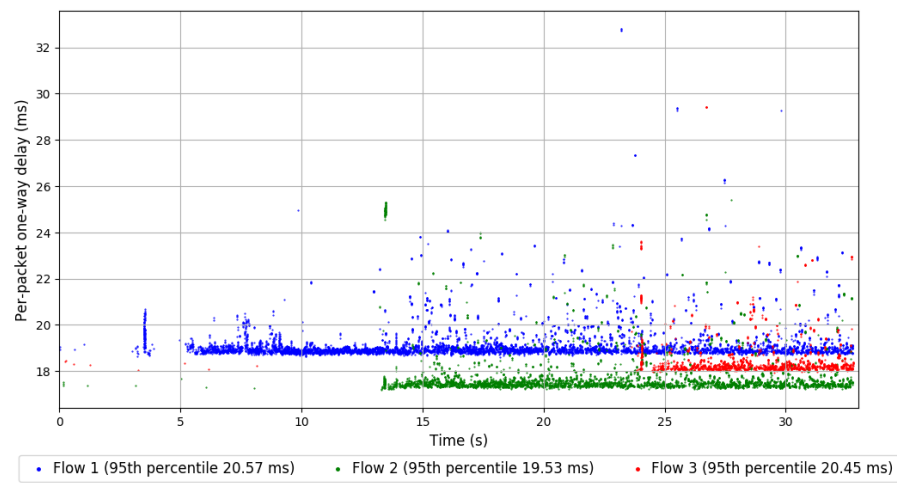
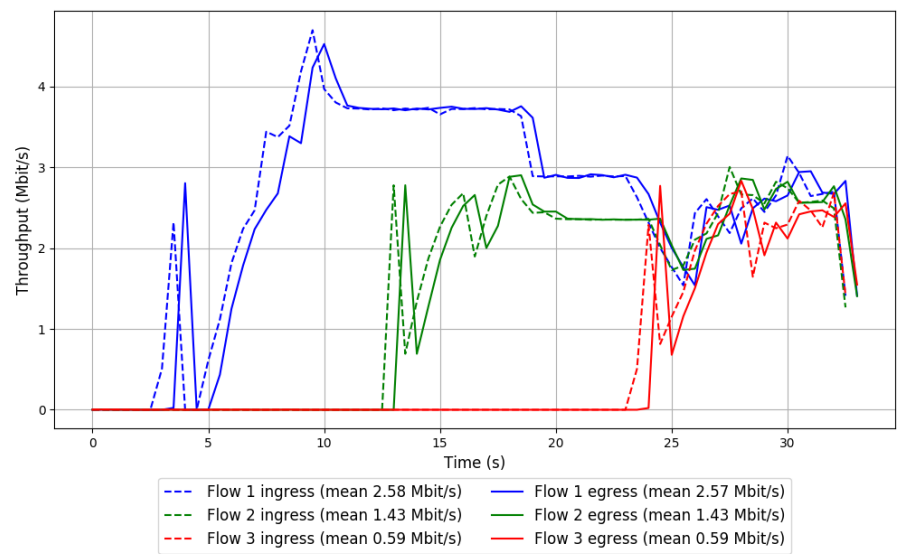
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 20.445 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-24 17:57:33

End at: 2018-07-24 17:58:03

Local clock offset: 3.216 ms

Remote clock offset: 2.286 ms

Below is generated by plot.py at 2018-07-24 21:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 20.529 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 19.282 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 1.63 Mbit/s

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

Loss rate: 0.43%

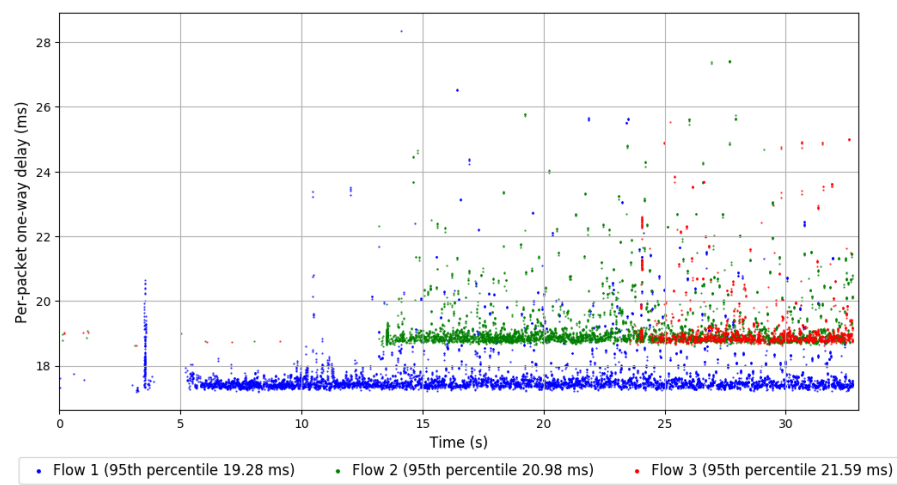
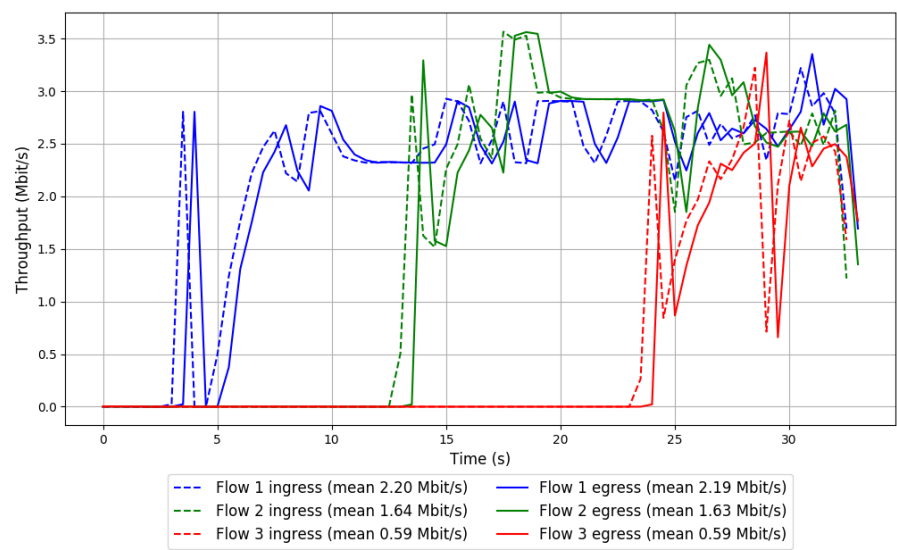
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 21.593 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-24 18:24:33

End at: 2018-07-24 18:25:03

Local clock offset: 3.612 ms

Remote clock offset: 2.003 ms

Below is generated by plot.py at 2018-07-24 21:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 20.609 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 19.775 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 21.212 ms

Loss rate: 0.00%

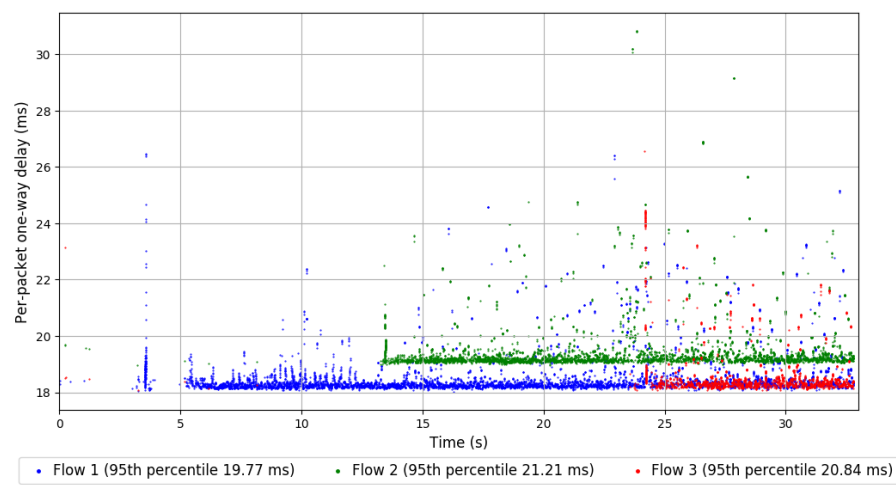
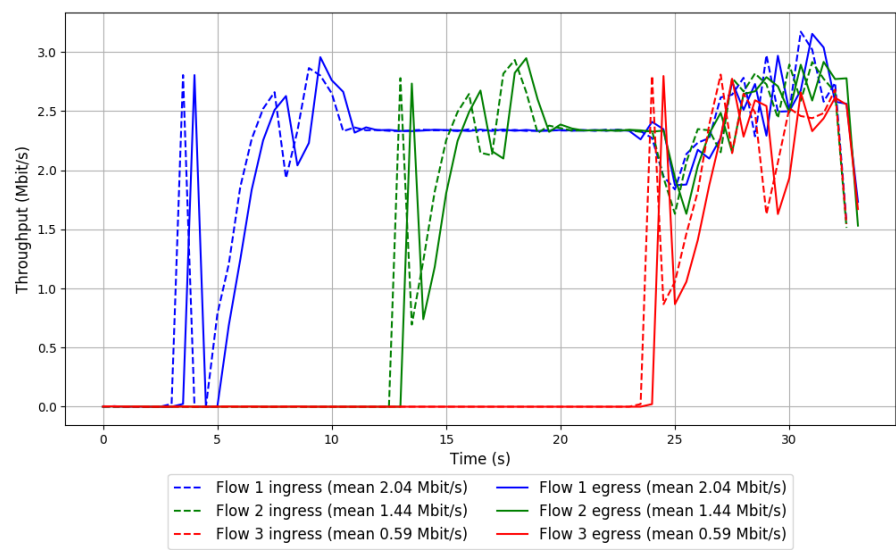
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 20.843 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-24 18:51:40

End at: 2018-07-24 18:52:10

Local clock offset: 3.784 ms

Remote clock offset: 1.813 ms

Below is generated by plot.py at 2018-07-24 21:23:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 20.651 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 20.370 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 21.114 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 20.671 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

