

Pantheon Report

Generated at 2018-05-30 22:26:25 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

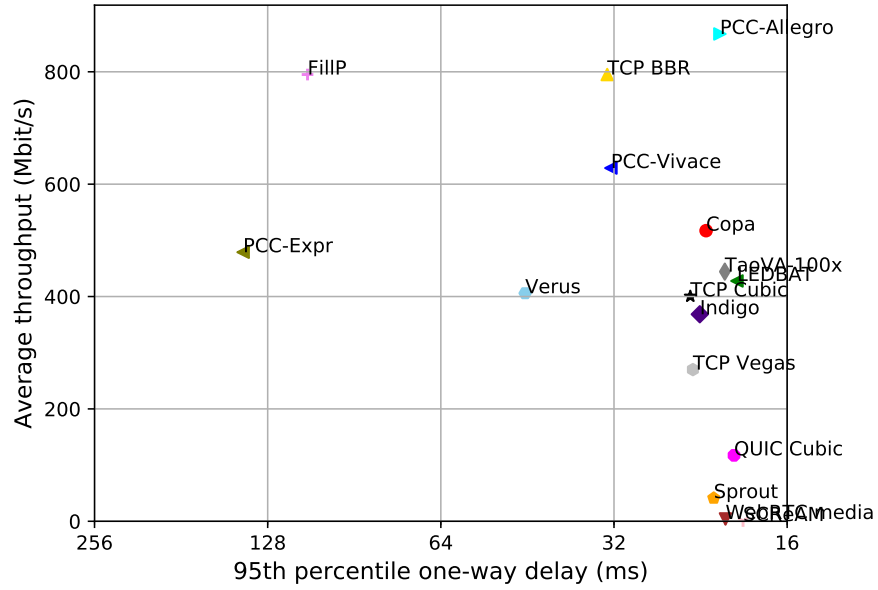
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

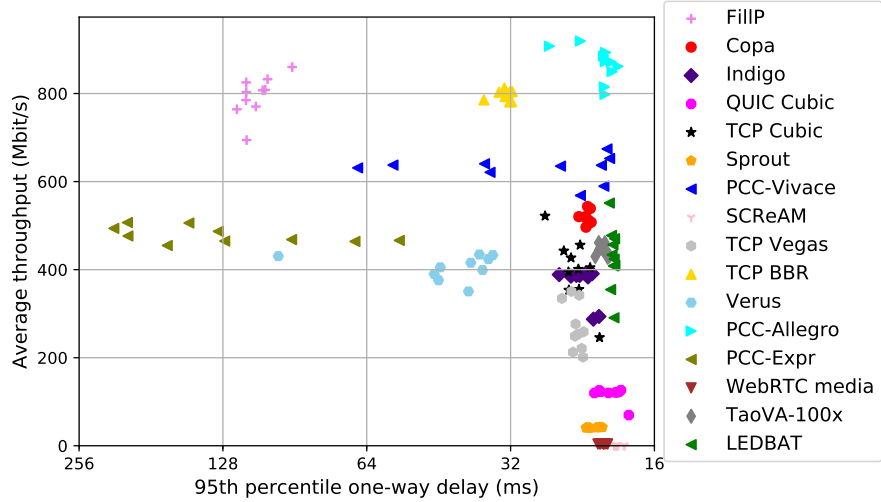
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
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



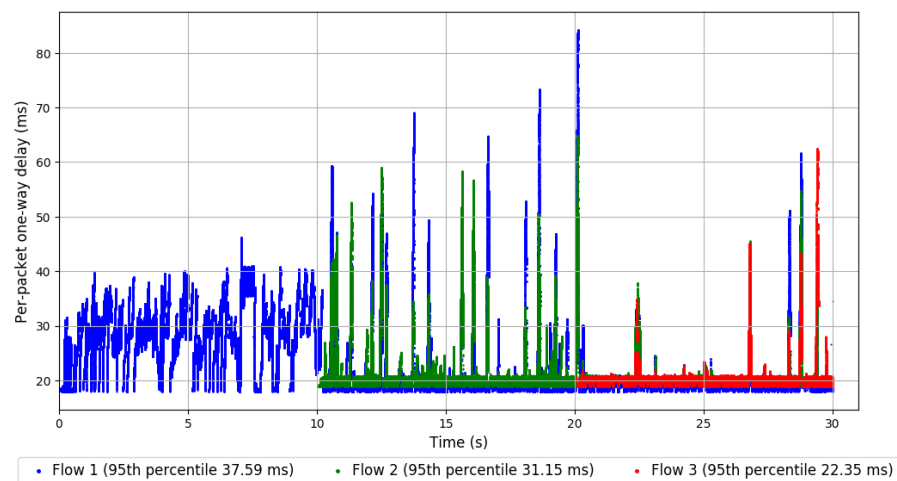
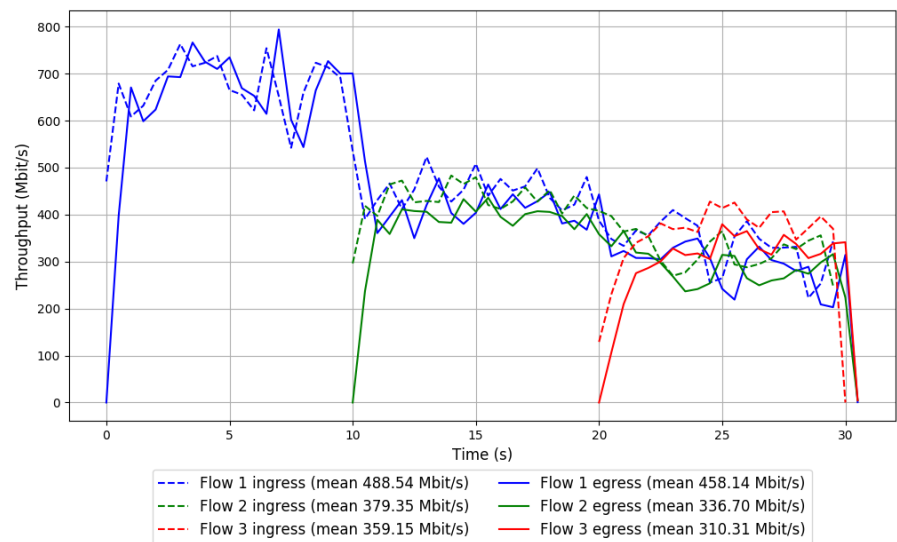
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	463.88	354.08	286.95	34.07	25.58	20.56	5.84	10.35	12.31
Copa	10	277.92	251.68	215.68	21.53	22.19	23.27	0.02	0.04	0.03
TCP Cubic	10	217.01	187.97	174.57	23.05	24.67	23.51	0.08	0.08	0.13
FillP	10	487.64	328.34	269.68	107.56	101.60	99.26	11.78	18.11	19.97
Indigo	10	176.33	195.26	192.69	24.16	21.52	20.53	0.01	0.01	0.02
LEDBAT	10	250.43	193.17	146.30	19.55	19.44	19.47	0.03	0.04	0.06
PCC-Allegro	10	736.96	147.04	99.05	21.30	19.85	19.99	0.49	0.47	0.61
PCC-Expr	10	282.02	249.70	93.18	132.35	145.10	29.57	1.32	1.75	0.07
QUIC Cubic	10	59.87	60.22	53.03	19.02	19.59	21.00	0.00	0.00	0.01
SCReAM	10	0.22	0.22	0.22	18.70	19.01	18.78	0.00	0.00	0.00
Sprout	10	20.76	20.70	20.48	21.18	21.35	21.75	0.01	0.00	0.01
TaoVA-100x	10	230.58	220.95	200.21	19.85	20.45	21.60	0.04	0.01	0.01
TCP Vegas	10	122.91	144.42	152.94	22.52	23.34	24.20	0.07	0.05	0.11
Verus	10	205.29	214.00	177.16	41.77	49.79	36.16	22.35	21.95	23.45
PCC-Vivace	10	377.64	329.72	96.27	29.97	40.98	21.09	0.21	0.50	0.49
WebRTC media	10	2.08	1.42	0.58	20.15	20.64	20.93	0.00	0.00	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-05-30 16:01:36
End at: 2018-05-30 16:02:06
Local clock offset: 0.099 ms
Remote clock offset: -0.532 ms

Below is generated by plot.py at 2018-05-30 20:29:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 785.49 Mbit/s
95th percentile per-packet one-way delay: 36.392 ms
Loss rate: 8.74%
-- Flow 1:
Average throughput: 458.14 Mbit/s
95th percentile per-packet one-way delay: 37.587 ms
Loss rate: 6.22%
-- Flow 2:
Average throughput: 336.70 Mbit/s
95th percentile per-packet one-way delay: 31.151 ms
Loss rate: 11.25%
-- Flow 3:
Average throughput: 310.31 Mbit/s
95th percentile per-packet one-way delay: 22.352 ms
Loss rate: 13.75%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-30 16:26:56

End at: 2018-05-30 16:27:26

Local clock offset: 0.122 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-05-30 20:29:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 792.93 Mbit/s

95th percentile per-packet one-way delay: 32.859 ms

Loss rate: 7.99%

-- Flow 1:

Average throughput: 487.86 Mbit/s

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

Loss rate: 5.93%

-- Flow 2:

Average throughput: 319.60 Mbit/s

95th percentile per-packet one-way delay: 25.119 ms

Loss rate: 11.25%

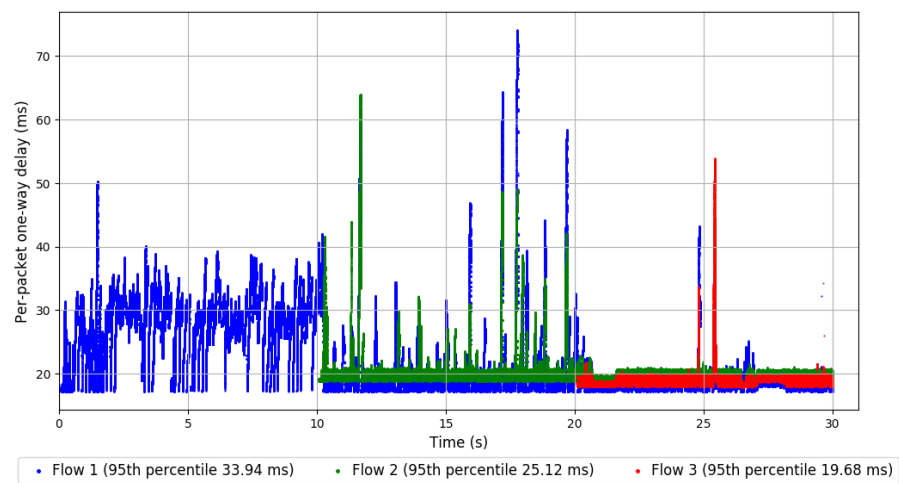
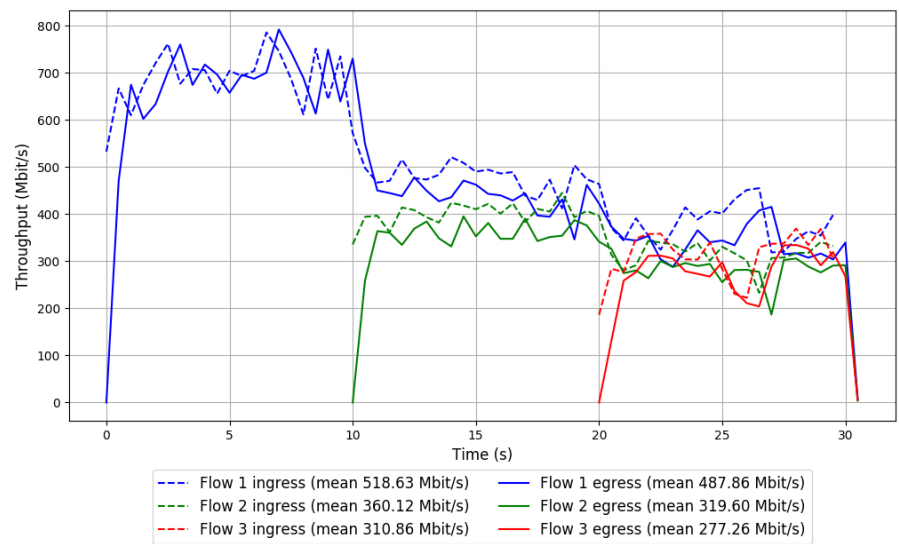
-- Flow 3:

Average throughput: 277.26 Mbit/s

95th percentile per-packet one-way delay: 19.683 ms

Loss rate: 10.80%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-30 16:52:46

End at: 2018-05-30 16:53:16

Local clock offset: 0.066 ms

Remote clock offset: 0.738 ms

Below is generated by plot.py at 2018-05-30 20:29:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 802.96 Mbit/s

95th percentile per-packet one-way delay: 33.830 ms

Loss rate: 8.06%

-- Flow 1:

Average throughput: 487.36 Mbit/s

95th percentile per-packet one-way delay: 34.693 ms

Loss rate: 5.76%

-- Flow 2:

Average throughput: 335.22 Mbit/s

95th percentile per-packet one-way delay: 26.898 ms

Loss rate: 11.42%

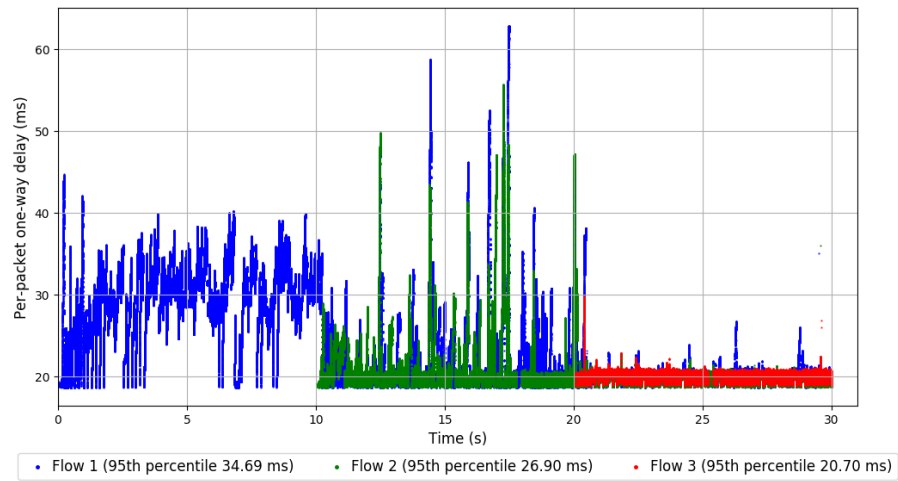
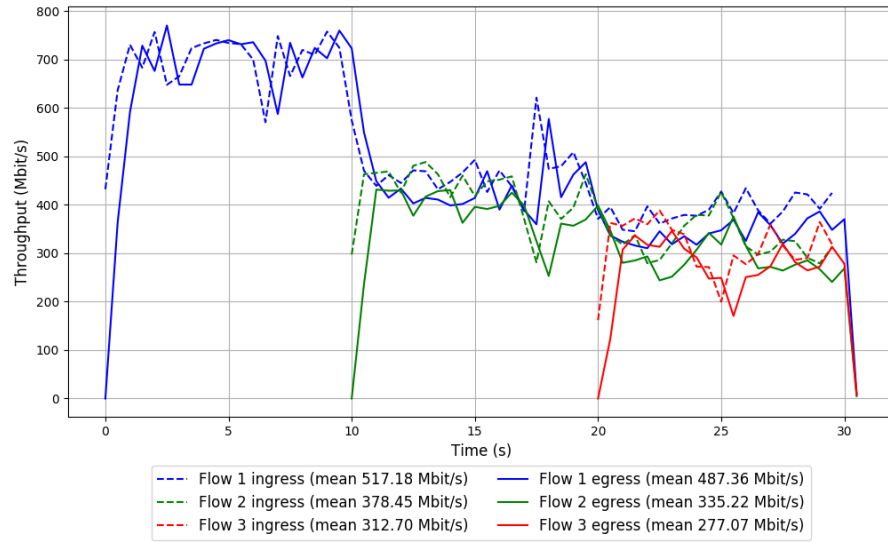
-- Flow 3:

Average throughput: 277.07 Mbit/s

95th percentile per-packet one-way delay: 20.703 ms

Loss rate: 11.38%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-30 17:18:29

End at: 2018-05-30 17:18:59

Local clock offset: 0.499 ms

Remote clock offset: 0.389 ms

Below is generated by plot.py at 2018-05-30 20:29:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 803.49 Mbit/s

95th percentile per-packet one-way delay: 32.146 ms

Loss rate: 7.73%

-- Flow 1:

Average throughput: 445.21 Mbit/s

95th percentile per-packet one-way delay: 33.338 ms

Loss rate: 5.55%

-- Flow 2:

Average throughput: 389.87 Mbit/s

95th percentile per-packet one-way delay: 25.250 ms

Loss rate: 9.35%

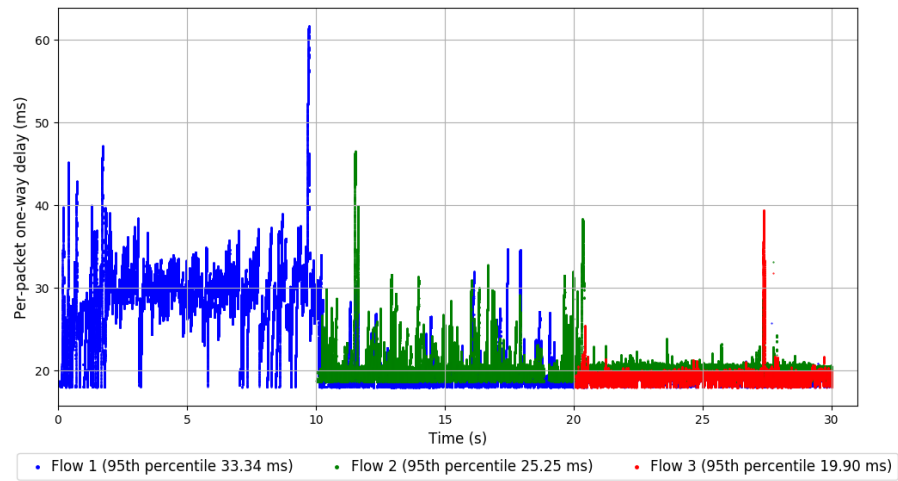
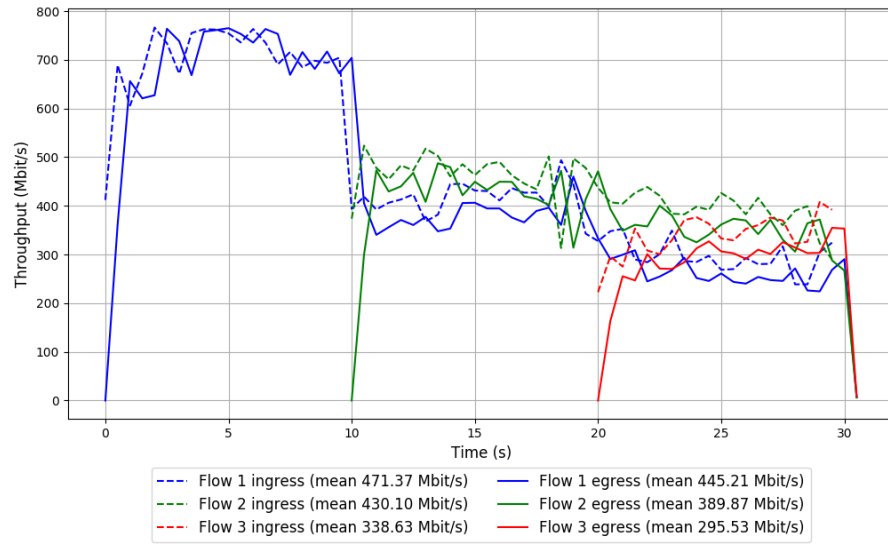
-- Flow 3:

Average throughput: 295.53 Mbit/s

95th percentile per-packet one-way delay: 19.898 ms

Loss rate: 12.72%

Run 4: Report of TCP BBR — Data Link

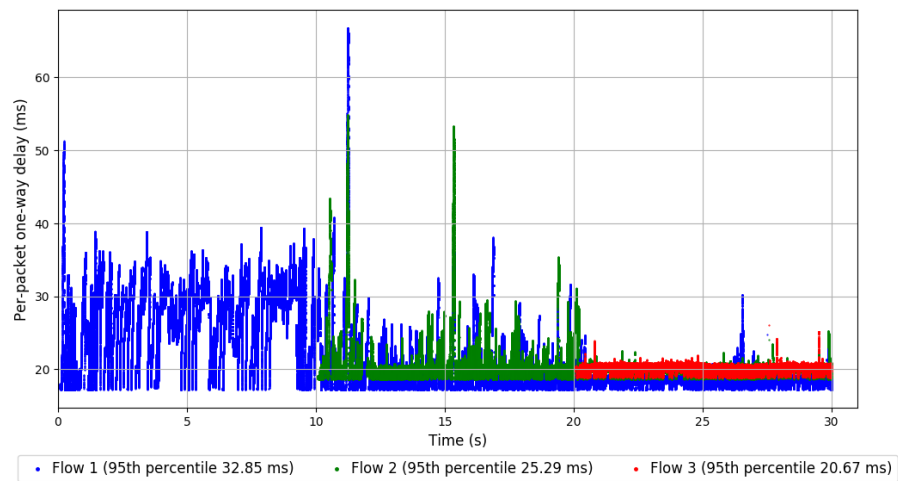
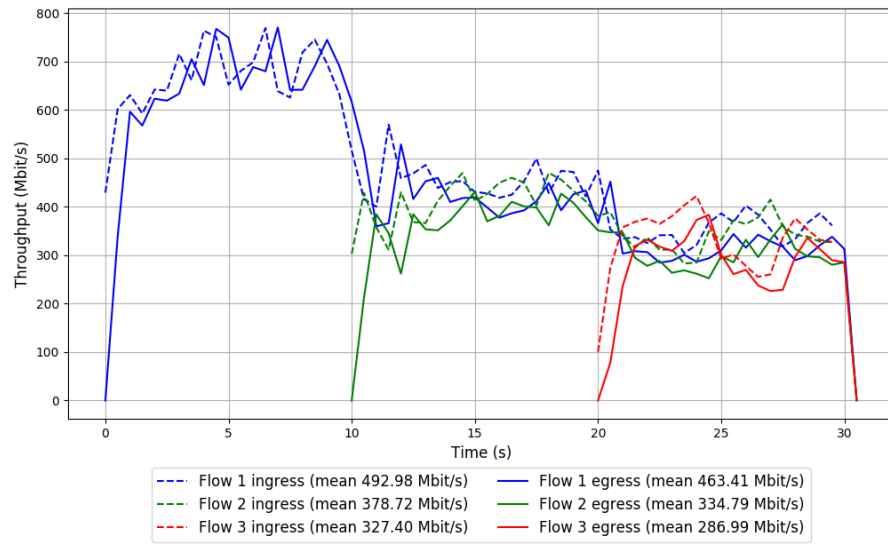


Run 5: Statistics of TCP BBR

Start at: 2018-05-30 17:43:58
End at: 2018-05-30 17:44:28
Local clock offset: -0.151 ms
Remote clock offset: -0.289 ms

Below is generated by plot.py at 2018-05-30 20:29:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 781.84 Mbit/s
95th percentile per-packet one-way delay: 31.857 ms
Loss rate: 8.46%
-- Flow 1:
Average throughput: 463.41 Mbit/s
95th percentile per-packet one-way delay: 32.855 ms
Loss rate: 6.00%
-- Flow 2:
Average throughput: 334.79 Mbit/s
95th percentile per-packet one-way delay: 25.293 ms
Loss rate: 11.60%
-- Flow 3:
Average throughput: 286.99 Mbit/s
95th percentile per-packet one-way delay: 20.669 ms
Loss rate: 12.34%

Run 5: Report of TCP BBR — Data Link

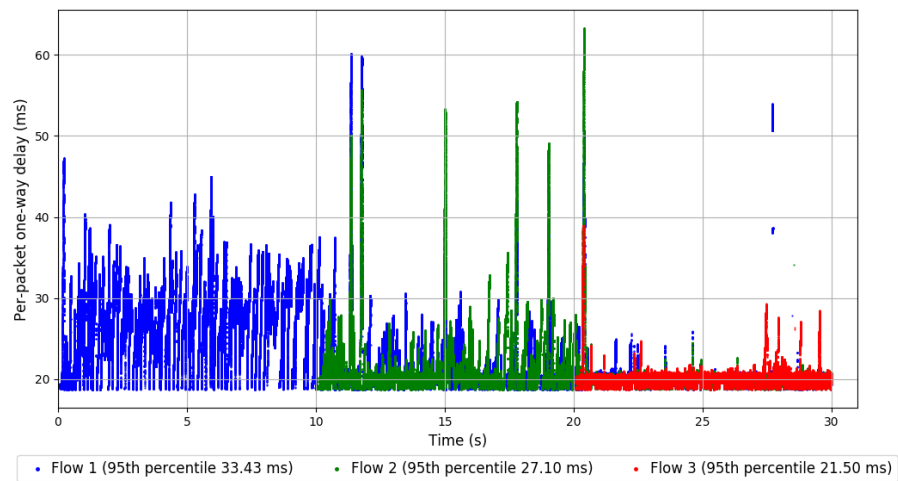
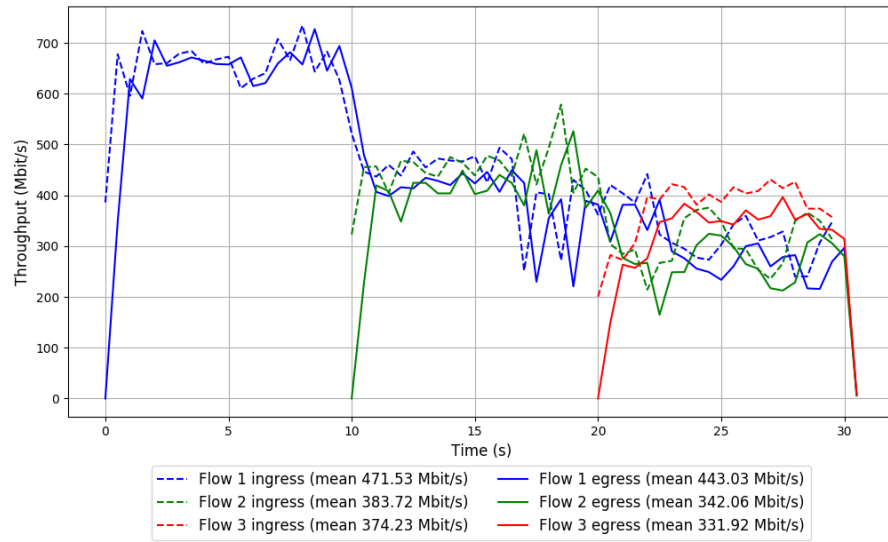


Run 6: Statistics of TCP BBR

Start at: 2018-05-30 18:09:23
End at: 2018-05-30 18:09:53
Local clock offset: -0.042 ms
Remote clock offset: -0.156 ms

Below is generated by plot.py at 2018-05-30 20:29:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 781.26 Mbit/s
95th percentile per-packet one-way delay: 32.134 ms
Loss rate: 8.25%
-- Flow 1:
Average throughput: 443.03 Mbit/s
95th percentile per-packet one-way delay: 33.432 ms
Loss rate: 6.04%
-- Flow 2:
Average throughput: 342.06 Mbit/s
95th percentile per-packet one-way delay: 27.097 ms
Loss rate: 10.85%
-- Flow 3:
Average throughput: 331.92 Mbit/s
95th percentile per-packet one-way delay: 21.501 ms
Loss rate: 11.30%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-30 18:35:07

End at: 2018-05-30 18:35:37

Local clock offset: 0.299 ms

Remote clock offset: 0.133 ms

Below is generated by plot.py at 2018-05-30 20:29:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 812.37 Mbit/s

95th percentile per-packet one-way delay: 32.965 ms

Loss rate: 8.42%

-- Flow 1:

Average throughput: 463.64 Mbit/s

95th percentile per-packet one-way delay: 34.301 ms

Loss rate: 6.31%

-- Flow 2:

Average throughput: 392.60 Mbit/s

95th percentile per-packet one-way delay: 22.824 ms

Loss rate: 9.99%

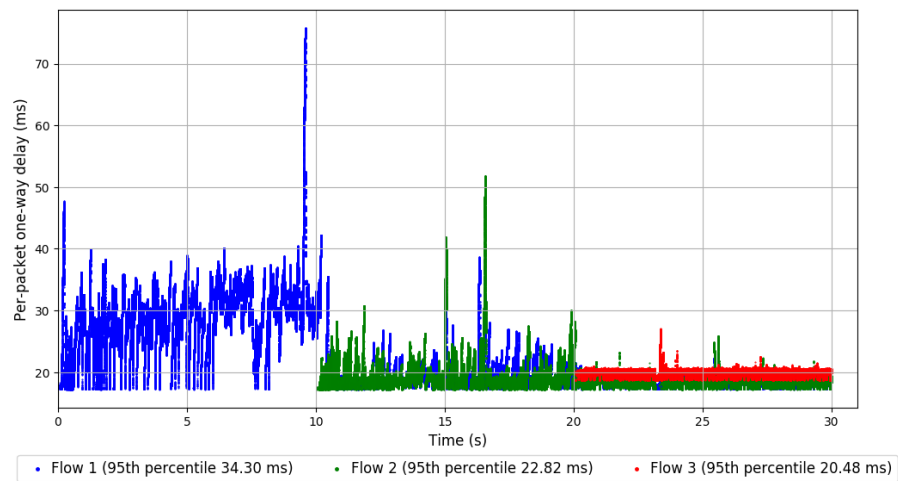
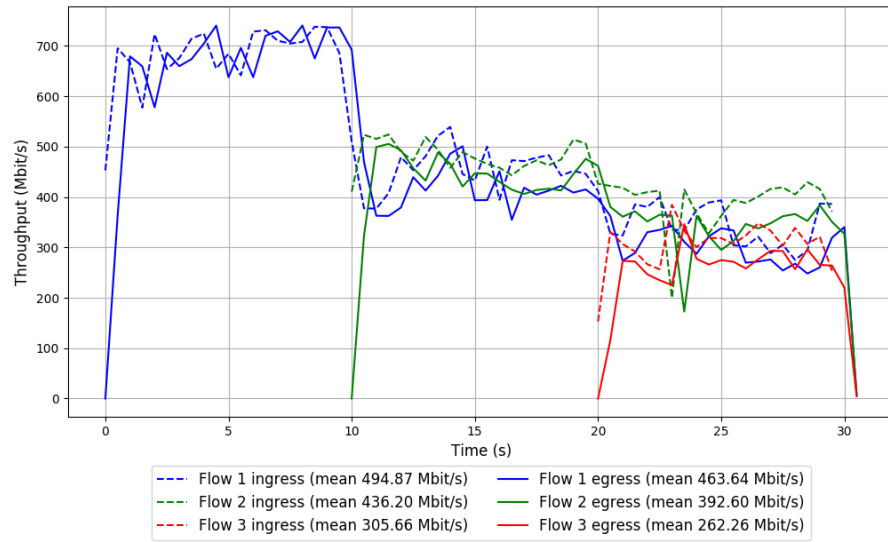
-- Flow 3:

Average throughput: 262.26 Mbit/s

95th percentile per-packet one-way delay: 20.483 ms

Loss rate: 14.21%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-30 19:00:45

End at: 2018-05-30 19:01:15

Local clock offset: -0.091 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-05-30 20:29:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 804.76 Mbit/s

95th percentile per-packet one-way delay: 32.785 ms

Loss rate: 7.02%

-- Flow 1:

Average throughput: 472.01 Mbit/s

95th percentile per-packet one-way delay: 33.957 ms

Loss rate: 5.19%

-- Flow 2:

Average throughput: 363.33 Mbit/s

95th percentile per-packet one-way delay: 23.241 ms

Loss rate: 8.92%

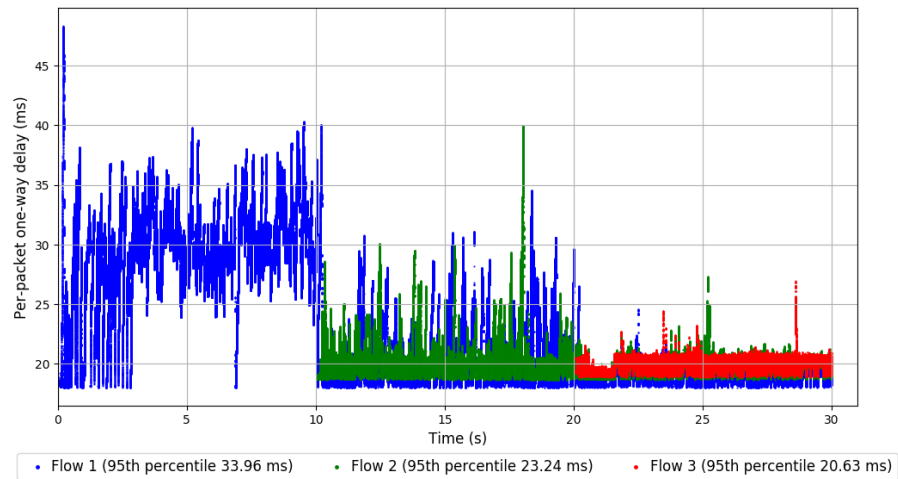
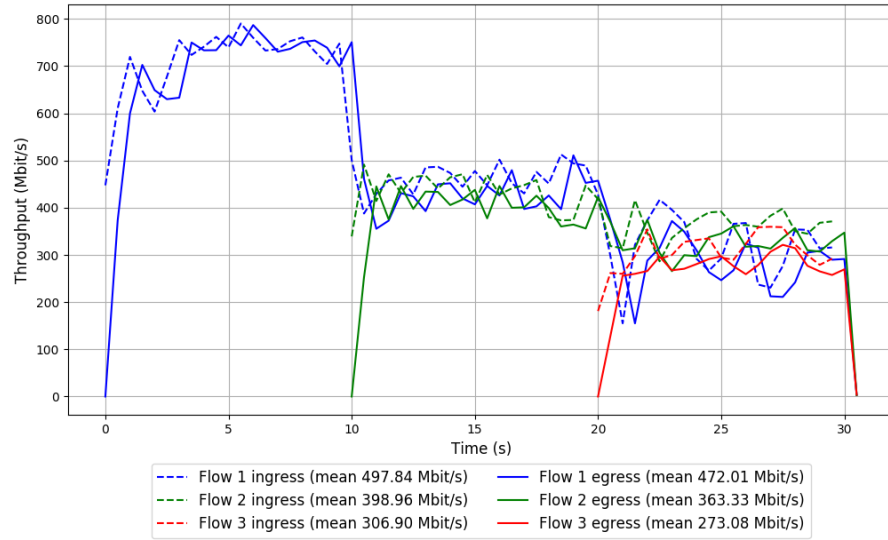
-- Flow 3:

Average throughput: 273.08 Mbit/s

95th percentile per-packet one-way delay: 20.632 ms

Loss rate: 11.03%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-30 19:26:16

End at: 2018-05-30 19:26:46

Local clock offset: -0.953 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2018-05-30 20:38:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 804.64 Mbit/s

95th percentile per-packet one-way delay: 31.754 ms

Loss rate: 7.83%

-- Flow 1:

Average throughput: 465.17 Mbit/s

95th percentile per-packet one-way delay: 32.978 ms

Loss rate: 5.52%

-- Flow 2:

Average throughput: 376.15 Mbit/s

95th percentile per-packet one-way delay: 23.733 ms

Loss rate: 9.91%

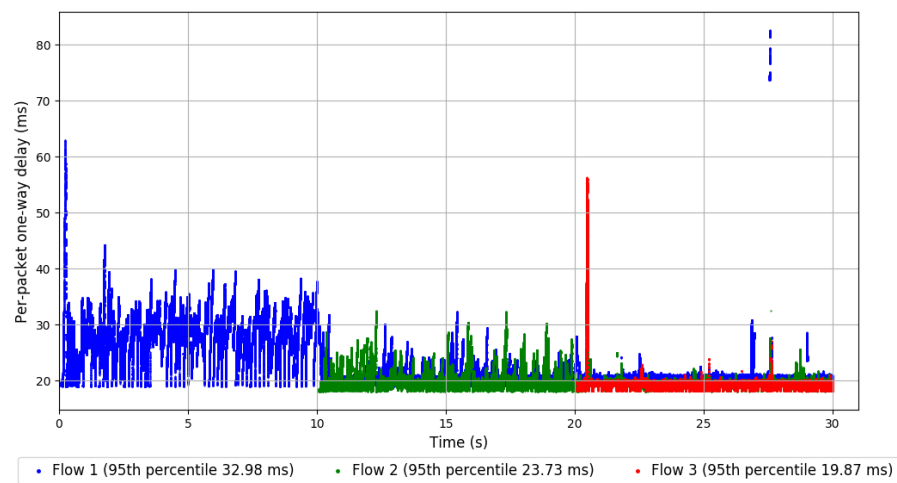
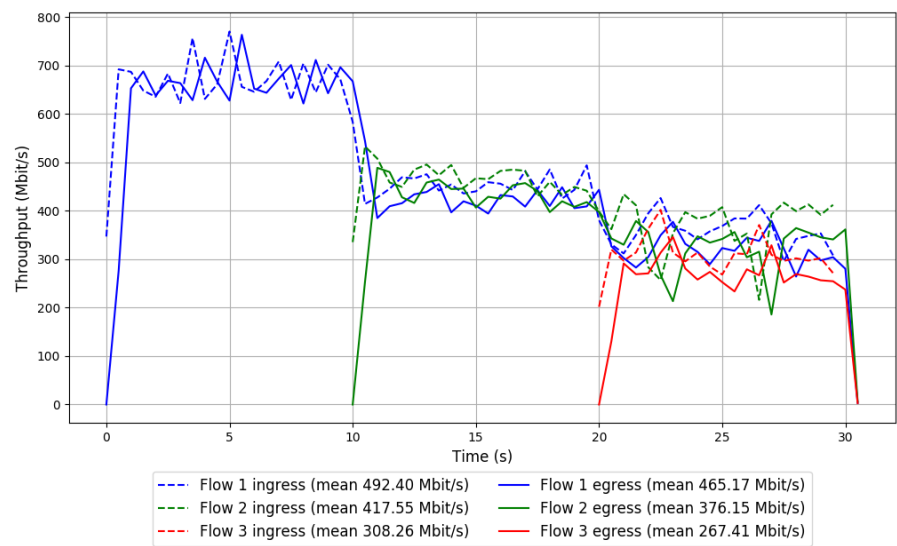
-- Flow 3:

Average throughput: 267.41 Mbit/s

95th percentile per-packet one-way delay: 19.871 ms

Loss rate: 13.25%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-30 19:51:49

End at: 2018-05-30 19:52:19

Local clock offset: -1.457 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-05-30 20:38:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 781.48 Mbit/s

95th percentile per-packet one-way delay: 32.058 ms

Loss rate: 7.65%

-- Flow 1:

Average throughput: 452.96 Mbit/s

95th percentile per-packet one-way delay: 33.656 ms

Loss rate: 5.88%

-- Flow 2:

Average throughput: 350.49 Mbit/s

95th percentile per-packet one-way delay: 25.191 ms

Loss rate: 8.97%

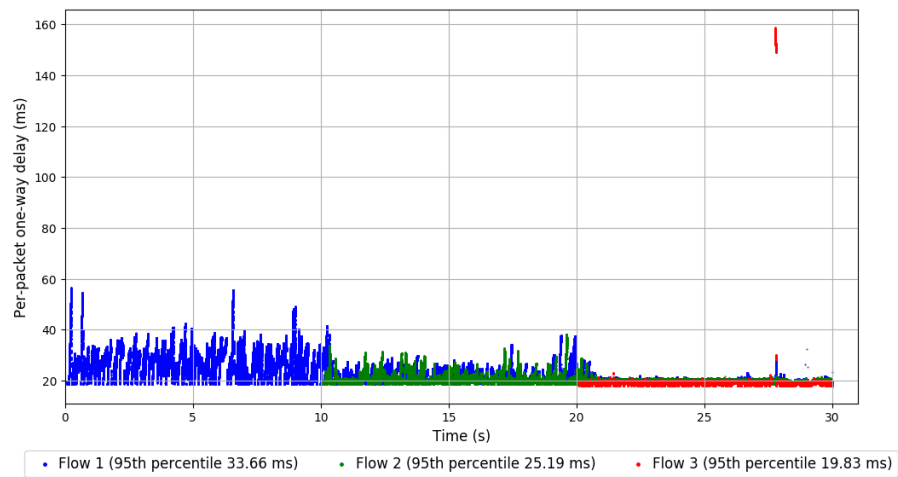
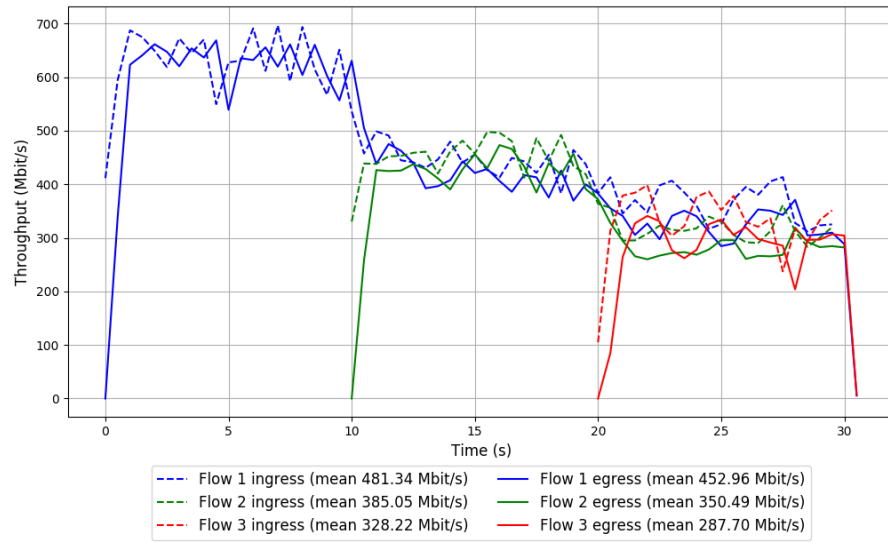
-- Flow 3:

Average throughput: 287.70 Mbit/s

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

Loss rate: 12.34%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-30 15:53:58

End at: 2018-05-30 15:54:28

Local clock offset: 0.091 ms

Remote clock offset: -0.37 ms

Below is generated by plot.py at 2018-05-30 20:41:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 543.52 Mbit/s

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

Loss rate: 0.03%

-- Flow 1:

Average throughput: 298.59 Mbit/s

95th percentile per-packet one-way delay: 22.430 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 259.79 Mbit/s

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

Loss rate: 0.05%

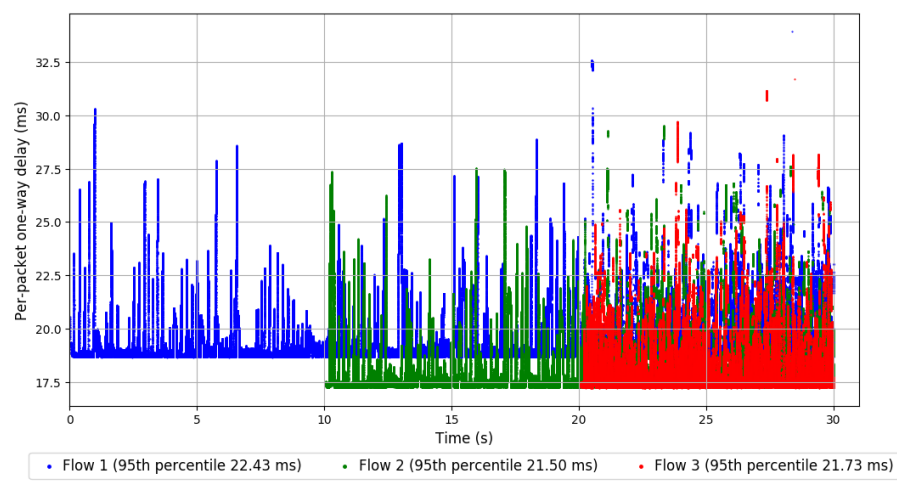
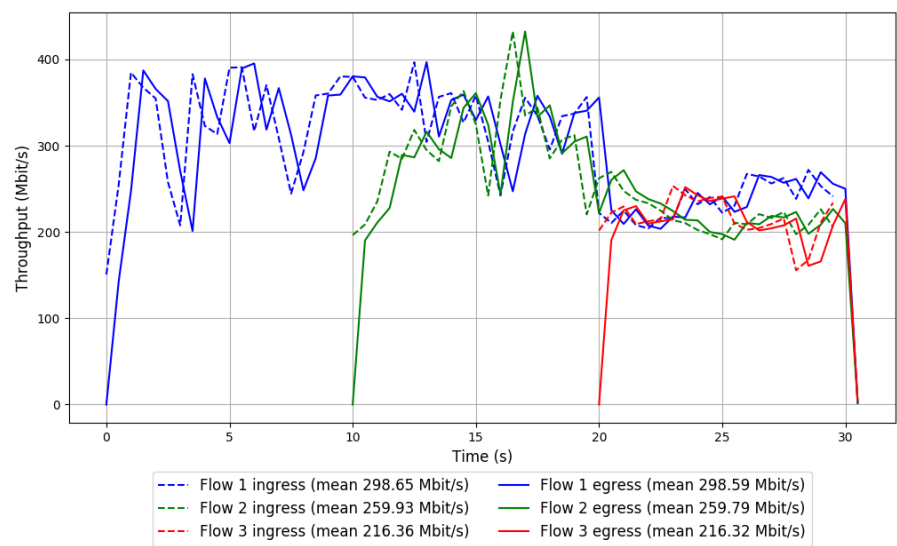
-- Flow 3:

Average throughput: 216.32 Mbit/s

95th percentile per-packet one-way delay: 21.726 ms

Loss rate: 0.02%

Run 1: Report of Copa — Data Link

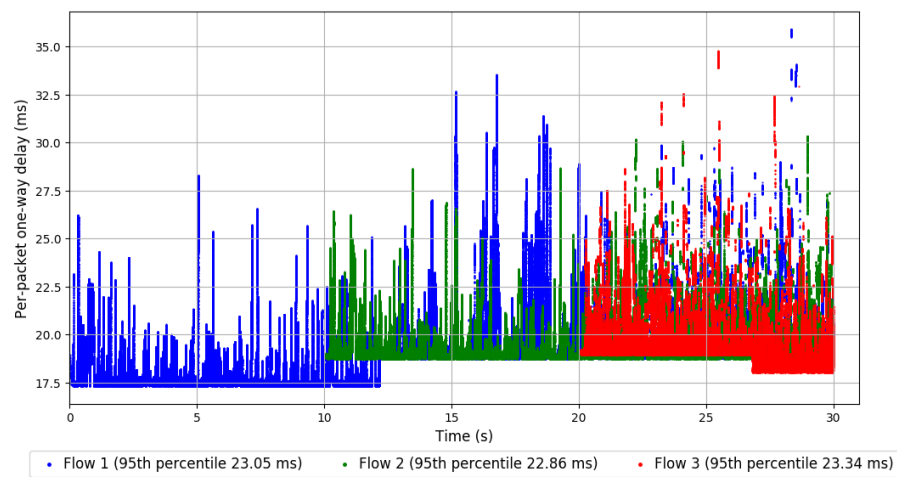
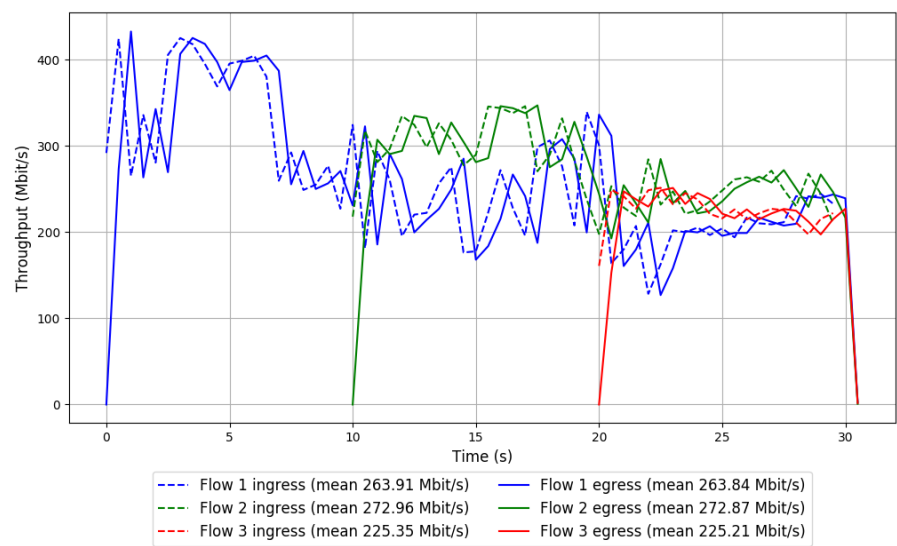


Run 2: Statistics of Copa

Start at: 2018-05-30 16:19:12
End at: 2018-05-30 16:19:42
Local clock offset: -0.011 ms
Remote clock offset: -0.368 ms

Below is generated by plot.py at 2018-05-30 20:41:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 520.41 Mbit/s
95th percentile per-packet one-way delay: 23.031 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 263.84 Mbit/s
95th percentile per-packet one-way delay: 23.047 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 272.87 Mbit/s
95th percentile per-packet one-way delay: 22.856 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 225.21 Mbit/s
95th percentile per-packet one-way delay: 23.343 ms
Loss rate: 0.08%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-30 16:45:00

End at: 2018-05-30 16:45:30

Local clock offset: 0.082 ms

Remote clock offset: 0.544 ms

Below is generated by plot.py at 2018-05-30 20:41:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 539.07 Mbit/s

95th percentile per-packet one-way delay: 21.788 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 294.92 Mbit/s

95th percentile per-packet one-way delay: 22.028 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 252.62 Mbit/s

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

Loss rate: 0.04%

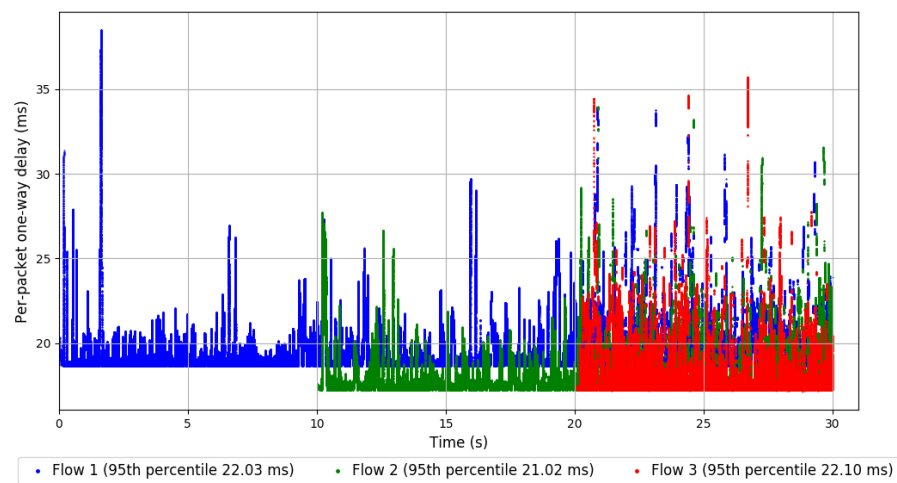
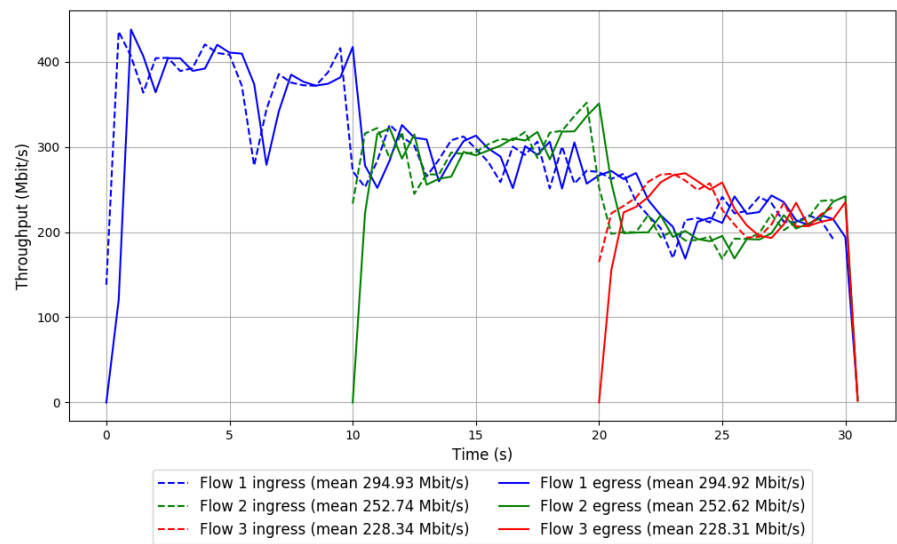
-- Flow 3:

Average throughput: 228.31 Mbit/s

95th percentile per-packet one-way delay: 22.102 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-30 17:10:41

End at: 2018-05-30 17:11:11

Local clock offset: 0.38 ms

Remote clock offset: 0.358 ms

Below is generated by plot.py at 2018-05-30 20:41:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 520.56 Mbit/s

95th percentile per-packet one-way delay: 22.290 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 276.51 Mbit/s

95th percentile per-packet one-way delay: 21.169 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 253.32 Mbit/s

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

Loss rate: 0.04%

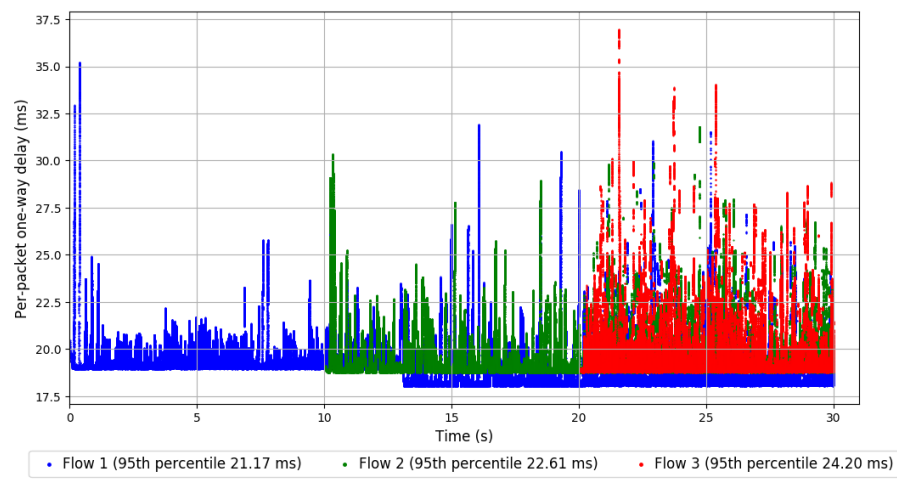
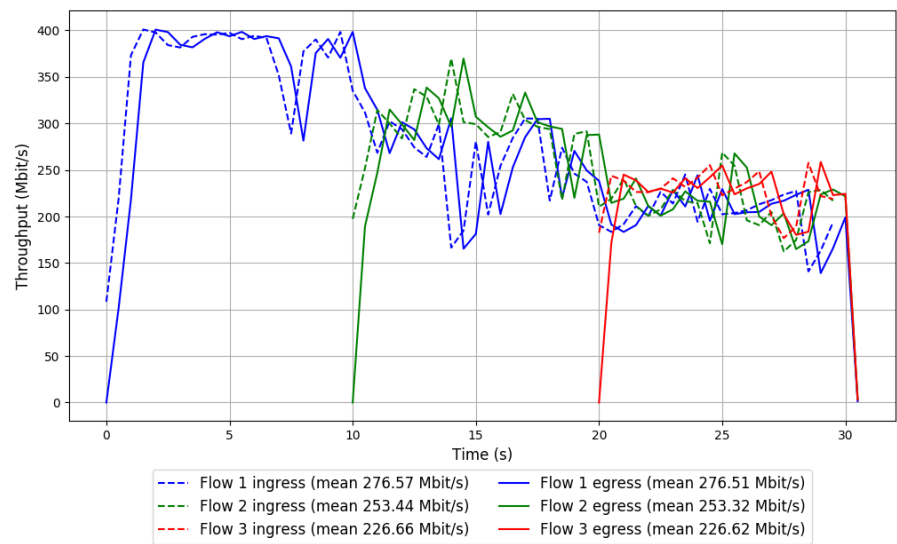
-- Flow 3:

Average throughput: 226.62 Mbit/s

95th percentile per-packet one-way delay: 24.199 ms

Loss rate: 0.04%

Run 4: Report of Copa — Data Link

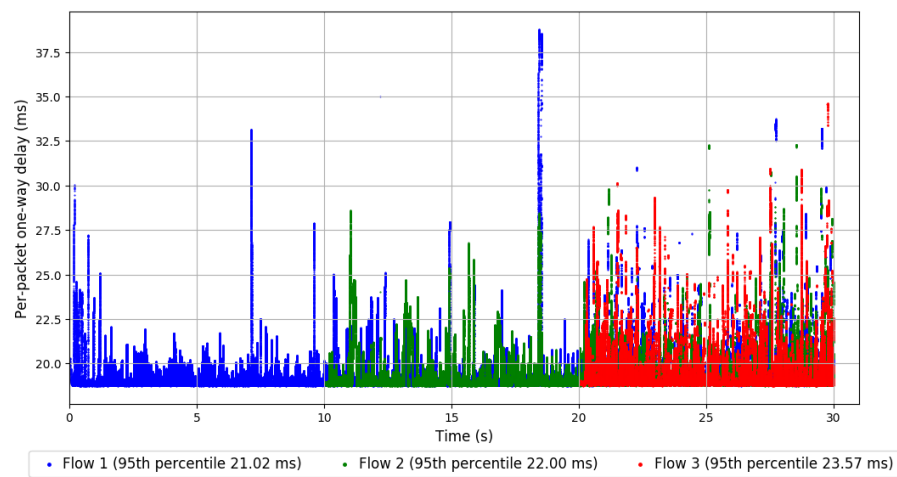
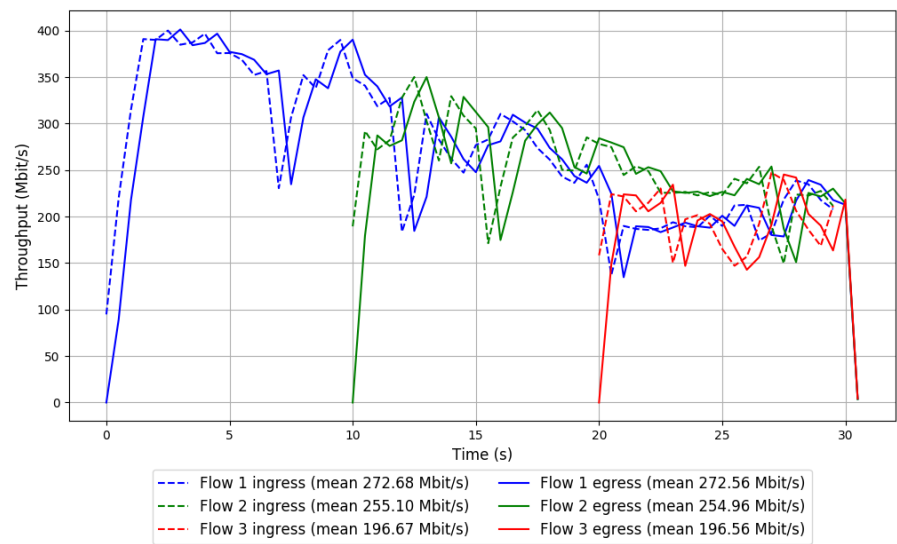


Run 5: Statistics of Copa

Start at: 2018-05-30 17:36:10
End at: 2018-05-30 17:36:40
Local clock offset: -0.094 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-05-30 20:41:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 507.65 Mbit/s
95th percentile per-packet one-way delay: 21.700 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 272.56 Mbit/s
95th percentile per-packet one-way delay: 21.025 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 254.96 Mbit/s
95th percentile per-packet one-way delay: 22.003 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 196.56 Mbit/s
95th percentile per-packet one-way delay: 23.574 ms
Loss rate: 0.03%

Run 5: Report of Copa — Data Link

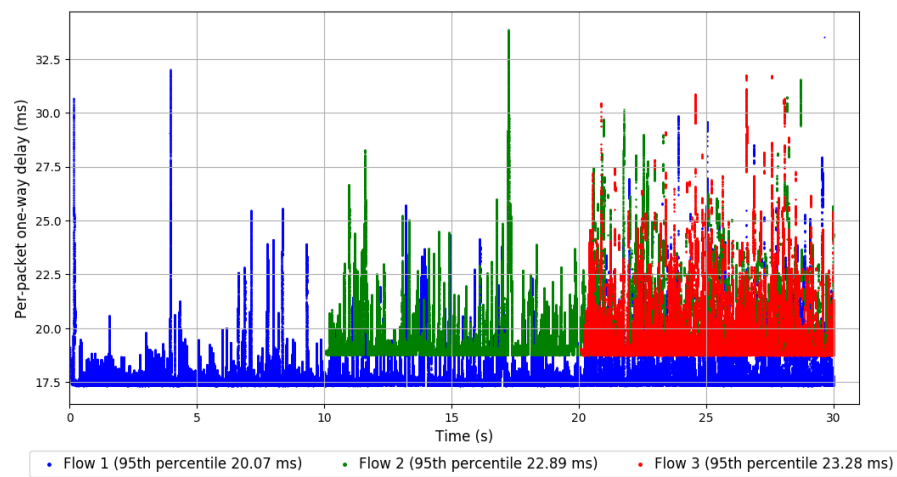
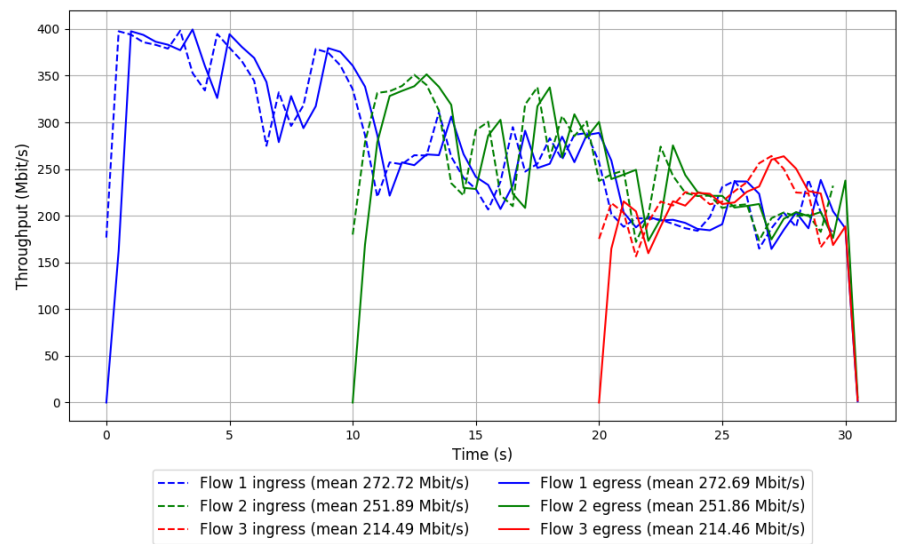


Run 6: Statistics of Copa

Start at: 2018-05-30 18:01:48
End at: 2018-05-30 18:02:18
Local clock offset: -0.118 ms
Remote clock offset: -0.379 ms

Below is generated by plot.py at 2018-05-30 20:41:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 511.72 Mbit/s
95th percentile per-packet one-way delay: 21.981 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 272.69 Mbit/s
95th percentile per-packet one-way delay: 20.071 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 251.86 Mbit/s
95th percentile per-packet one-way delay: 22.887 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 214.46 Mbit/s
95th percentile per-packet one-way delay: 23.281 ms
Loss rate: 0.02%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-30 18:27:20

End at: 2018-05-30 18:27:50

Local clock offset: 0.143 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2018-05-30 20:50:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 504.32 Mbit/s

95th percentile per-packet one-way delay: 21.991 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 268.02 Mbit/s

95th percentile per-packet one-way delay: 21.166 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 241.84 Mbit/s

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

Loss rate: 0.05%

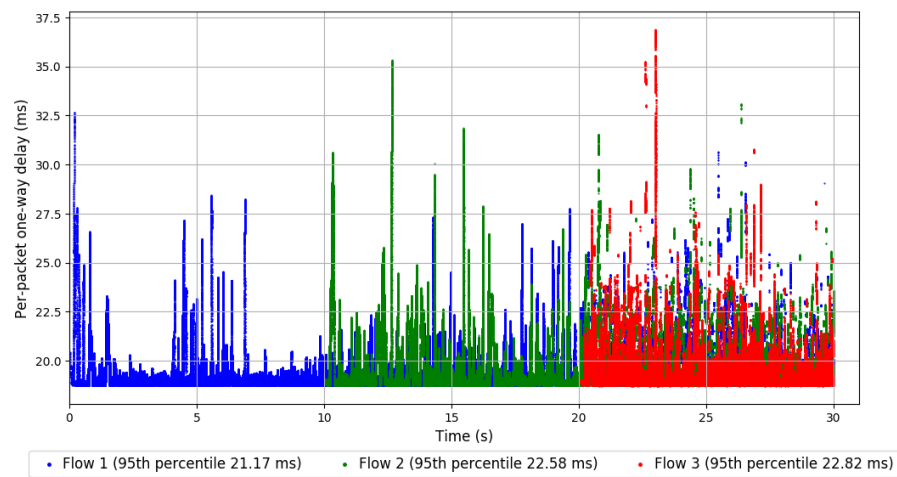
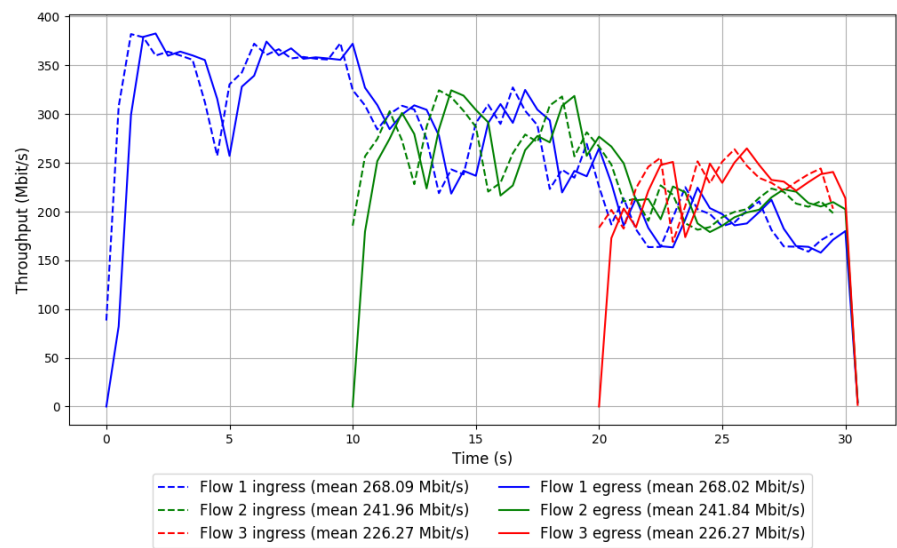
-- Flow 3:

Average throughput: 226.27 Mbit/s

95th percentile per-packet one-way delay: 22.816 ms

Loss rate: 0.01%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-30 18:52:57

End at: 2018-05-30 18:53:27

Local clock offset: 0.231 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-05-30 20:51:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 516.87 Mbit/s

95th percentile per-packet one-way delay: 22.231 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 280.80 Mbit/s

95th percentile per-packet one-way delay: 21.124 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 256.82 Mbit/s

95th percentile per-packet one-way delay: 22.944 ms

Loss rate: 0.01%

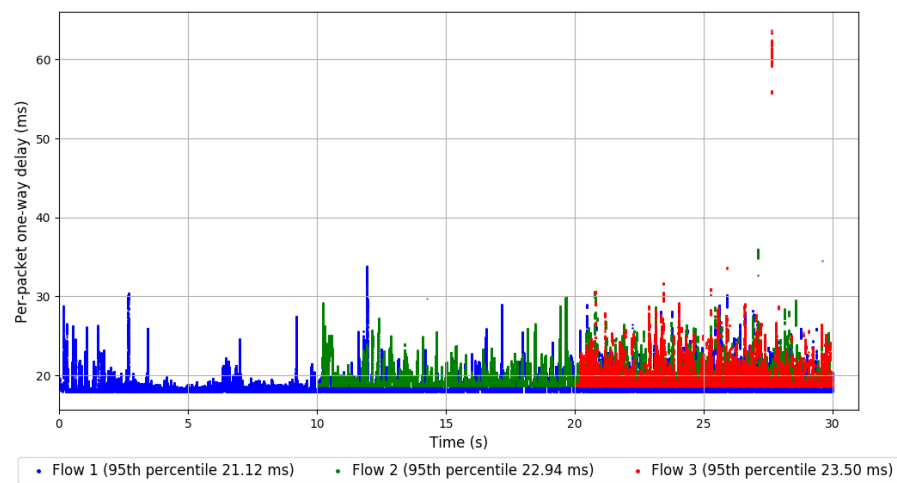
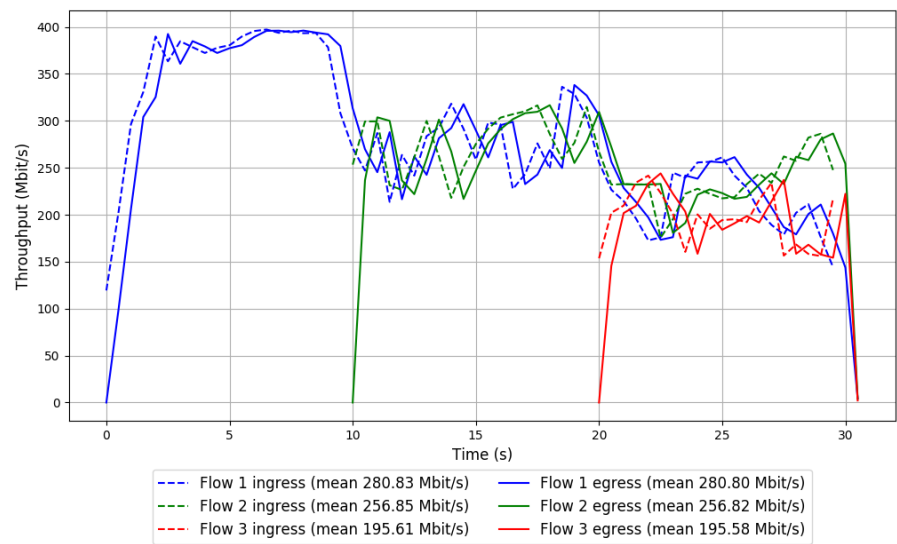
-- Flow 3:

Average throughput: 195.58 Mbit/s

95th percentile per-packet one-way delay: 23.498 ms

Loss rate: 0.01%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-30 19:18:28

End at: 2018-05-30 19:18:58

Local clock offset: -0.691 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-05-30 20:52:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 511.73 Mbit/s

95th percentile per-packet one-way delay: 22.002 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 274.57 Mbit/s

95th percentile per-packet one-way delay: 21.269 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 238.60 Mbit/s

95th percentile per-packet one-way delay: 21.562 ms

Loss rate: 0.01%

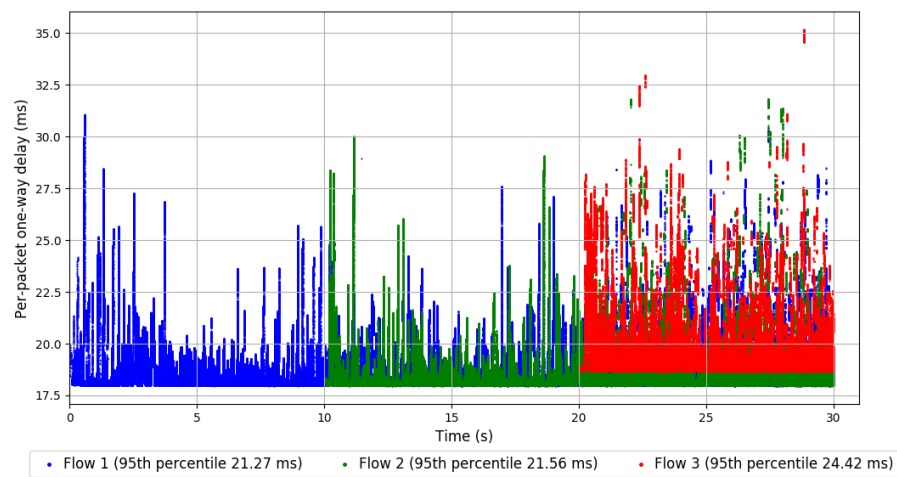
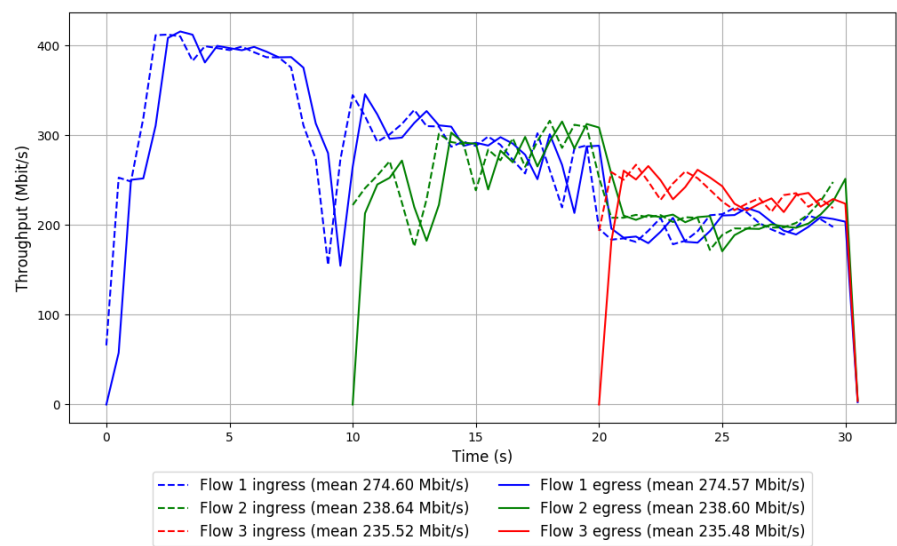
-- Flow 3:

Average throughput: 235.48 Mbit/s

95th percentile per-packet one-way delay: 24.424 ms

Loss rate: 0.02%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-30 19:44:07

End at: 2018-05-30 19:44:37

Local clock offset: -1.365 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-05-30 20:52:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 496.40 Mbit/s

95th percentile per-packet one-way delay: 22.251 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 276.67 Mbit/s

95th percentile per-packet one-way delay: 22.019 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 234.12 Mbit/s

95th percentile per-packet one-way delay: 21.944 ms

Loss rate: 0.06%

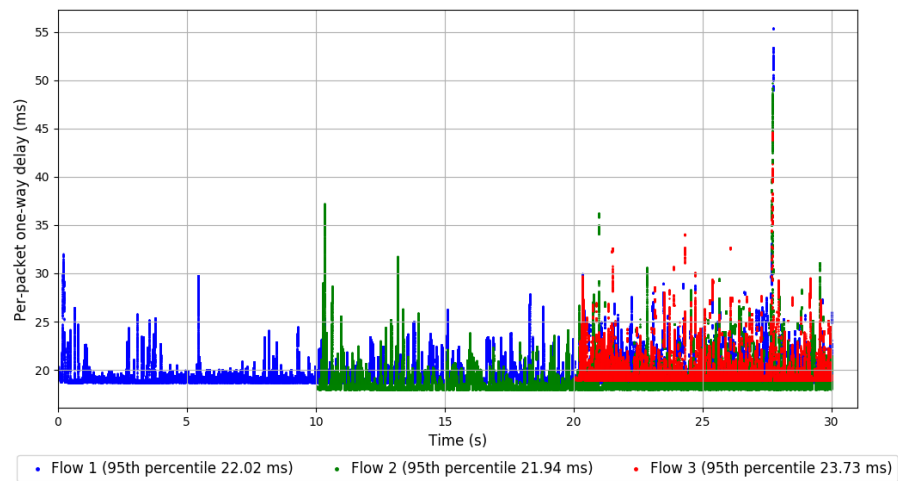
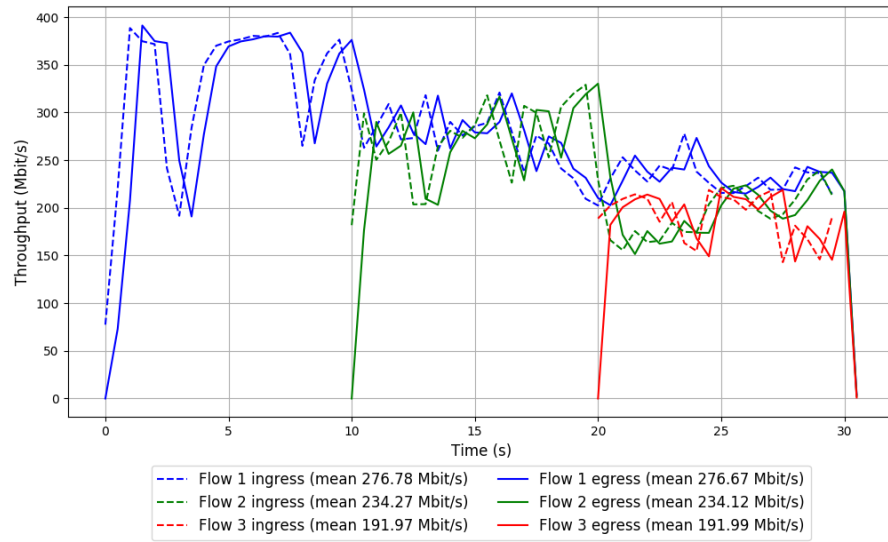
-- Flow 3:

Average throughput: 191.99 Mbit/s

95th percentile per-packet one-way delay: 23.735 ms

Loss rate: 0.05%

Run 10: Report of Copa — Data Link

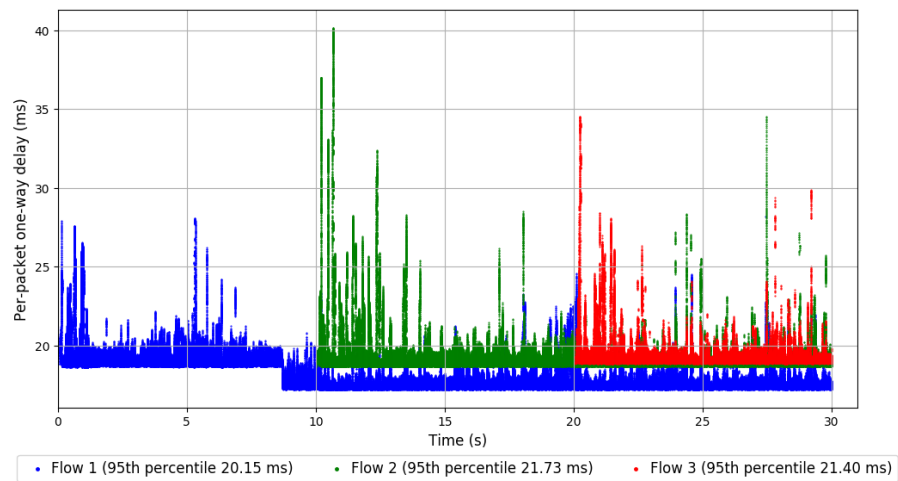
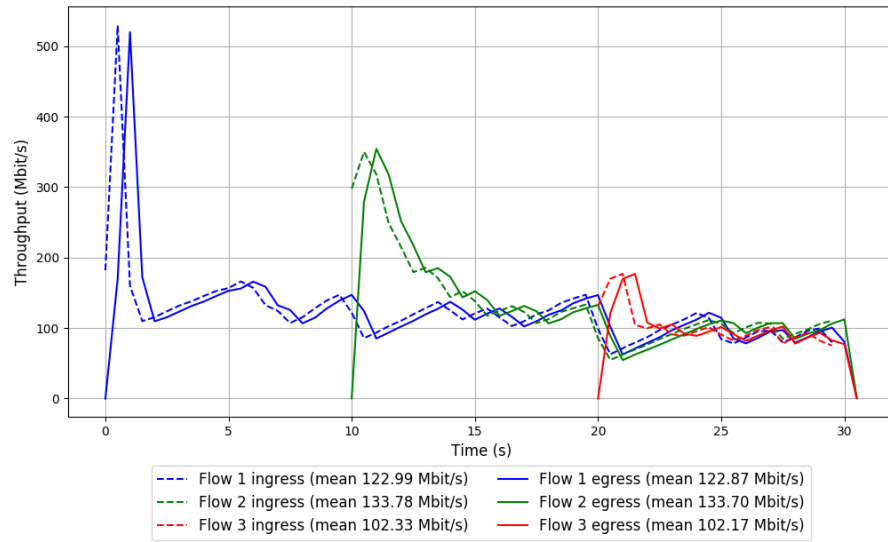


Run 1: Statistics of TCP Cubic

Start at: 2018-05-30 16:08:11
End at: 2018-05-30 16:08:41
Local clock offset: 0.103 ms
Remote clock offset: -0.493 ms

Below is generated by plot.py at 2018-05-30 20:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 245.91 Mbit/s
95th percentile per-packet one-way delay: 20.843 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 122.87 Mbit/s
95th percentile per-packet one-way delay: 20.152 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 133.70 Mbit/s
95th percentile per-packet one-way delay: 21.729 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 102.17 Mbit/s
95th percentile per-packet one-way delay: 21.399 ms
Loss rate: 0.17%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-30 16:33:35

End at: 2018-05-30 16:34:05

Local clock offset: -0.254 ms

Remote clock offset: 0.278 ms

Below is generated by plot.py at 2018-05-30 20:52:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 521.93 Mbit/s

95th percentile per-packet one-way delay: 27.097 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 326.80 Mbit/s

95th percentile per-packet one-way delay: 27.388 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 218.06 Mbit/s

95th percentile per-packet one-way delay: 27.998 ms

Loss rate: 0.09%

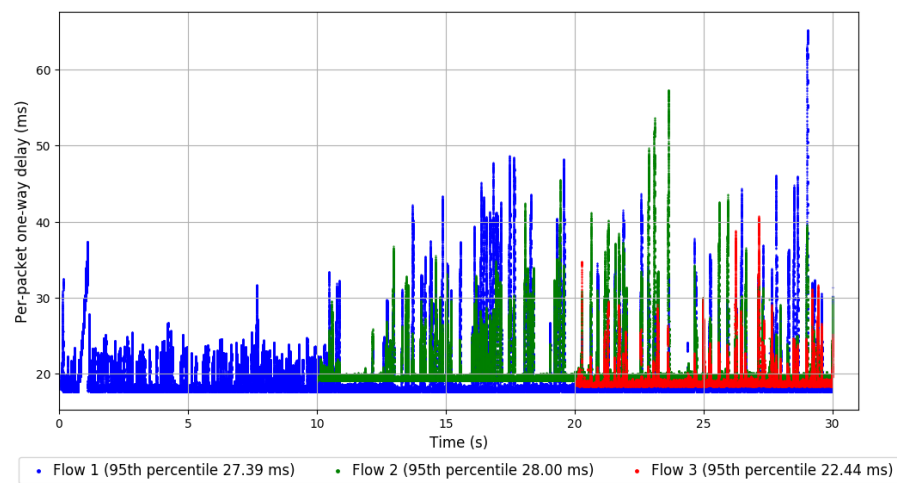
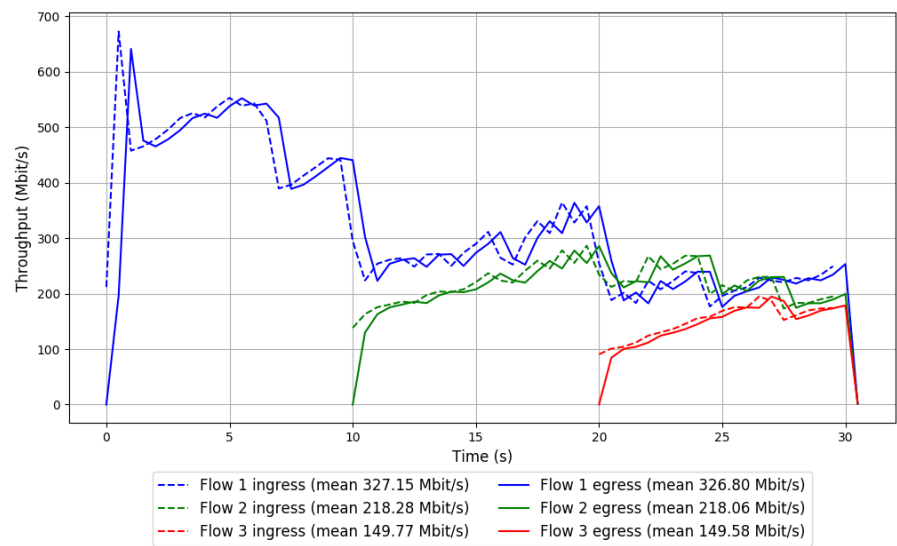
-- Flow 3:

Average throughput: 149.58 Mbit/s

95th percentile per-packet one-way delay: 22.443 ms

Loss rate: 0.12%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-30 16:59:35

End at: 2018-05-30 17:00:05

Local clock offset: 0.36 ms

Remote clock offset: 0.45 ms

Below is generated by plot.py at 2018-05-30 20:52:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 455.95 Mbit/s

95th percentile per-packet one-way delay: 22.885 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 252.21 Mbit/s

95th percentile per-packet one-way delay: 21.942 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 170.04 Mbit/s

95th percentile per-packet one-way delay: 25.323 ms

Loss rate: 0.06%

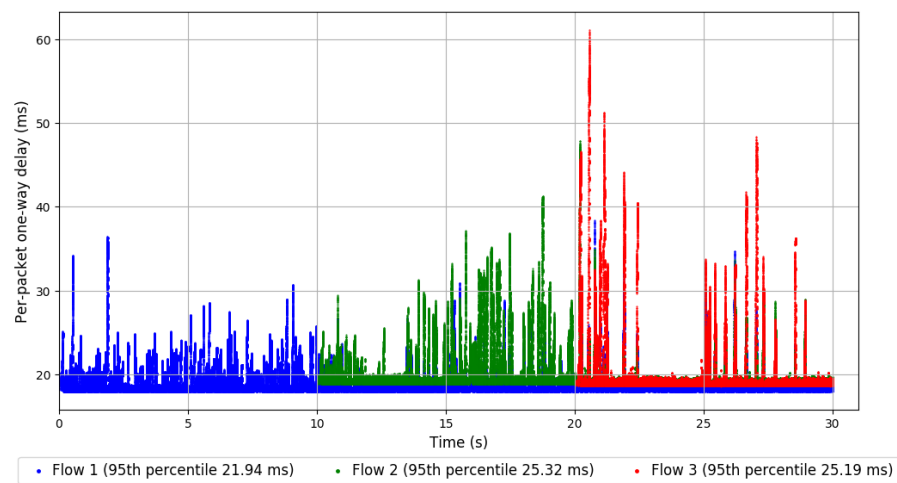
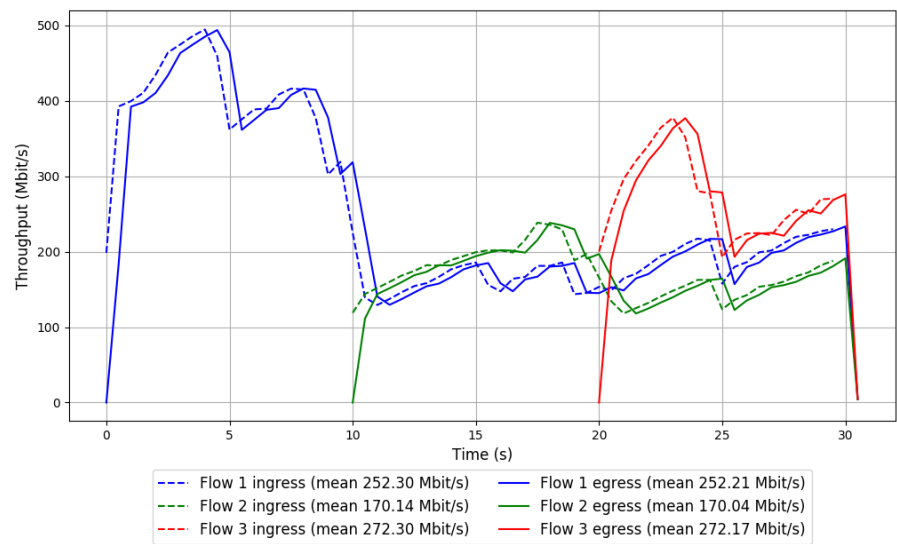
-- Flow 3:

Average throughput: 272.17 Mbit/s

95th percentile per-packet one-way delay: 25.193 ms

Loss rate: 0.04%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-30 17:25:09

End at: 2018-05-30 17:25:39

Local clock offset: 0.35 ms

Remote clock offset: 0.34 ms

Below is generated by plot.py at 2018-05-30 20:52:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.46 Mbit/s

95th percentile per-packet one-way delay: 23.017 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 220.40 Mbit/s

95th percentile per-packet one-way delay: 23.724 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 133.00 Mbit/s

95th percentile per-packet one-way delay: 19.974 ms

Loss rate: 0.12%

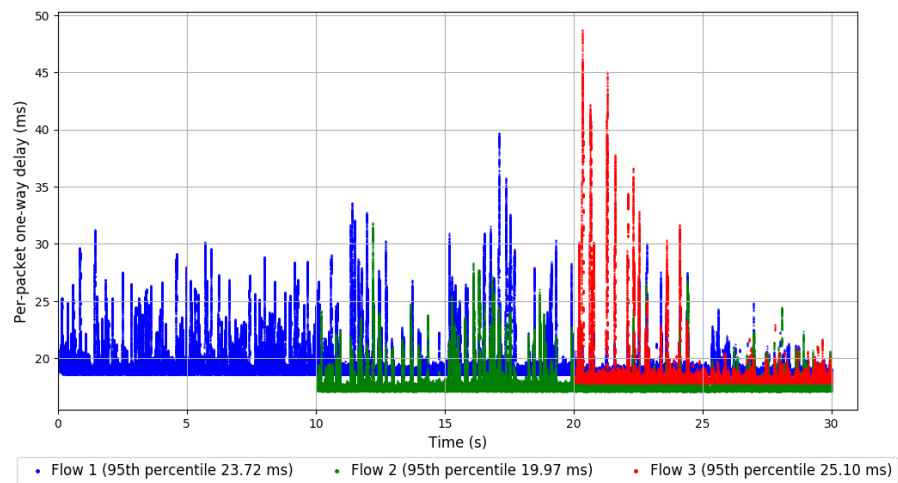
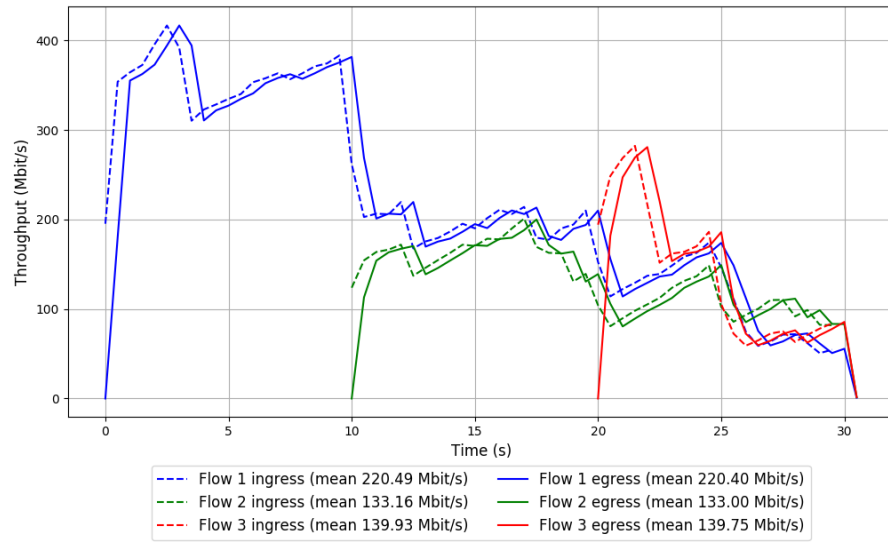
-- Flow 3:

Average throughput: 139.75 Mbit/s

95th percentile per-packet one-way delay: 25.099 ms

Loss rate: 0.13%

Run 4: Report of TCP Cubic — Data Link

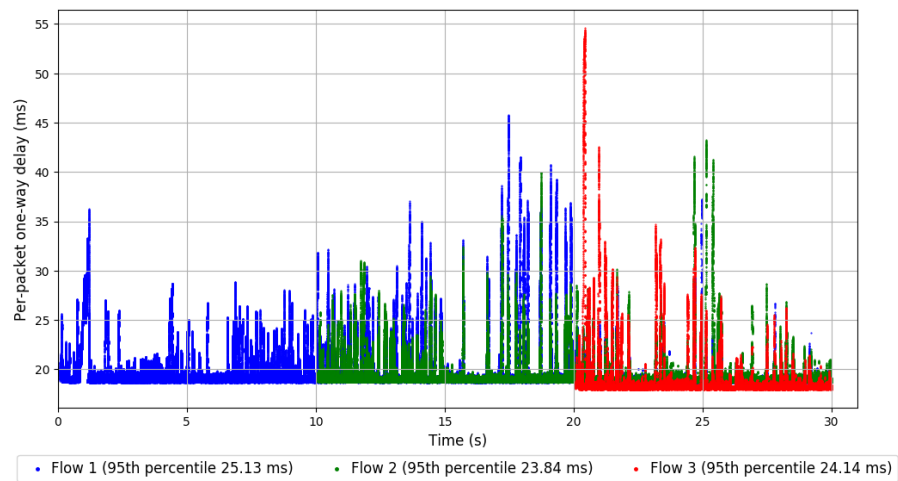
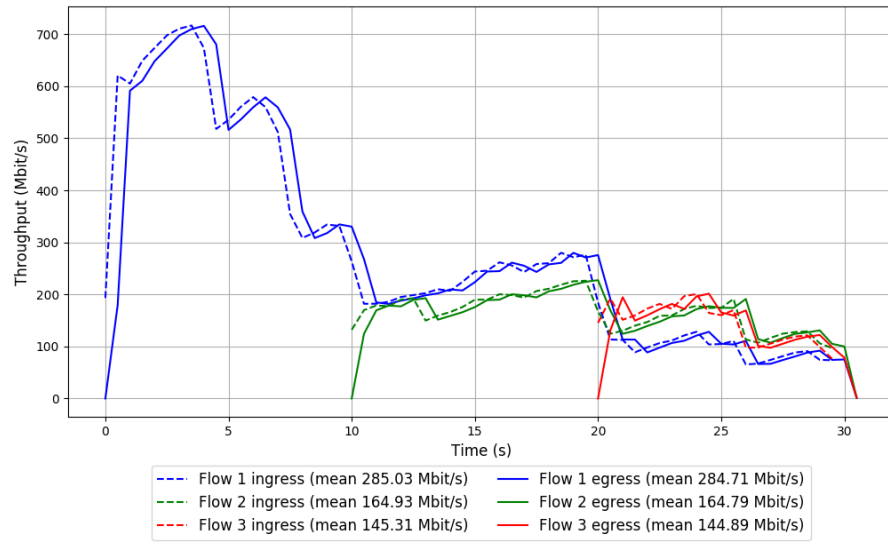


Run 5: Statistics of TCP Cubic

Start at: 2018-05-30 17:50:38
End at: 2018-05-30 17:51:08
Local clock offset: -0.353 ms
Remote clock offset: -0.418 ms

Below is generated by plot.py at 2018-05-30 20:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 442.65 Mbit/s
95th percentile per-packet one-way delay: 24.757 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 284.71 Mbit/s
95th percentile per-packet one-way delay: 25.132 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 164.79 Mbit/s
95th percentile per-packet one-way delay: 23.840 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 144.89 Mbit/s
95th percentile per-packet one-way delay: 24.135 ms
Loss rate: 0.29%

Run 5: Report of TCP Cubic — Data Link

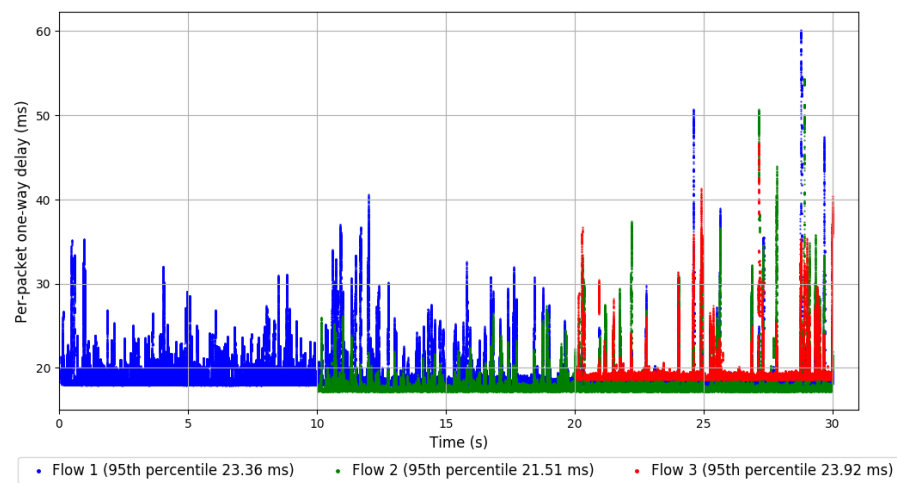
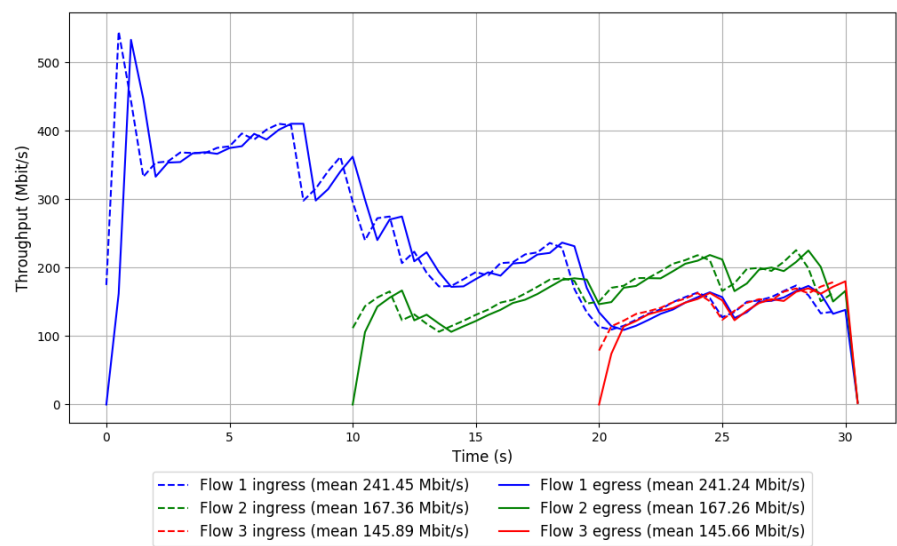


Run 6: Statistics of TCP Cubic

Start at: 2018-05-30 18:16:13
End at: 2018-05-30 18:16:43
Local clock offset: 0.013 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-05-30 20:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 401.09 Mbit/s
95th percentile per-packet one-way delay: 23.080 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 241.24 Mbit/s
95th percentile per-packet one-way delay: 23.363 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 167.26 Mbit/s
95th percentile per-packet one-way delay: 21.512 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 145.66 Mbit/s
95th percentile per-packet one-way delay: 23.919 ms
Loss rate: 0.15%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-30 18:41:49

End at: 2018-05-30 18:42:19

Local clock offset: 0.356 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-05-30 20:52:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 404.56 Mbit/s

95th percentile per-packet one-way delay: 21.811 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 180.52 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 193.58 Mbit/s

95th percentile per-packet one-way delay: 26.376 ms

Loss rate: 0.04%

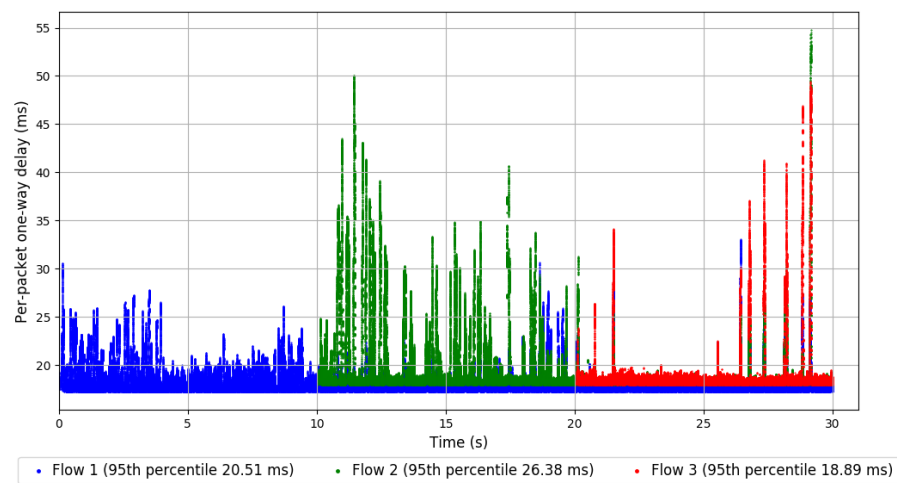
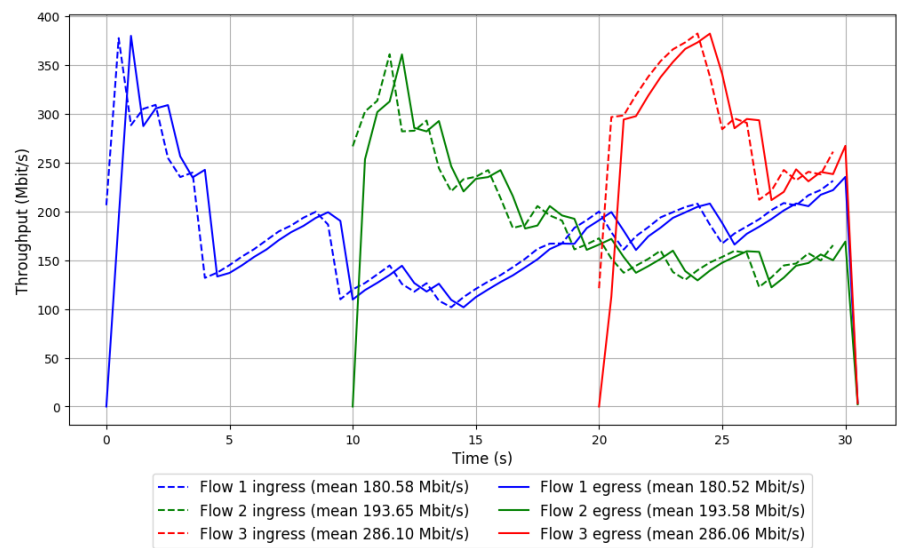
-- Flow 3:

Average throughput: 286.06 Mbit/s

95th percentile per-packet one-way delay: 18.885 ms

Loss rate: 0.01%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-30 19:07:24

End at: 2018-05-30 19:07:54

Local clock offset: -0.328 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-05-30 20:52:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 394.67 Mbit/s

95th percentile per-packet one-way delay: 24.211 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 202.46 Mbit/s

95th percentile per-packet one-way delay: 23.061 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 204.49 Mbit/s

95th percentile per-packet one-way delay: 26.476 ms

Loss rate: 0.15%

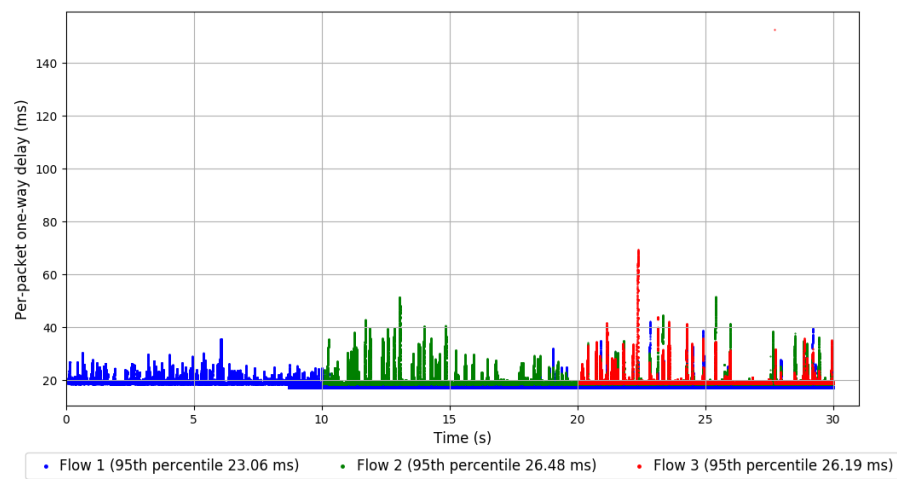
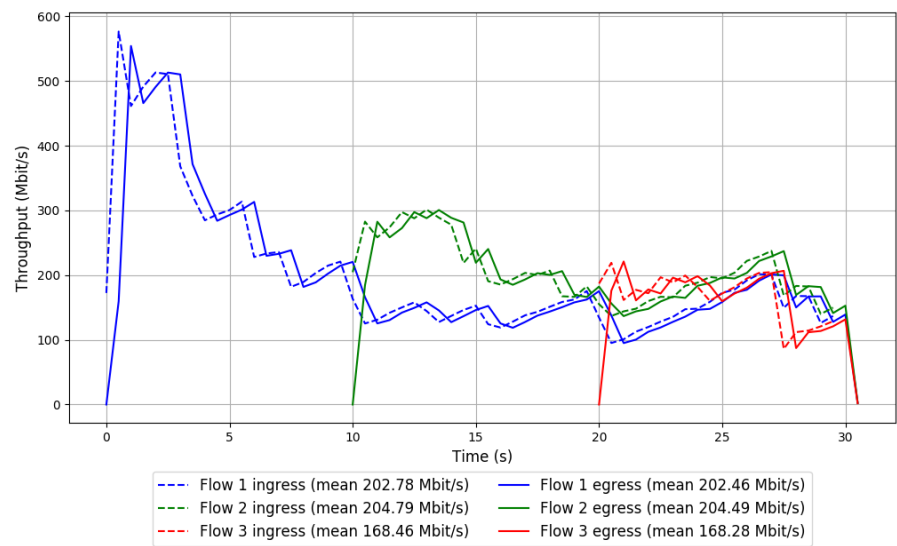
-- Flow 3:

Average throughput: 168.28 Mbit/s

95th percentile per-packet one-way delay: 26.189 ms

Loss rate: 0.10%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-30 19:33:02

End at: 2018-05-30 19:33:32

Local clock offset: -0.988 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-05-30 20:53:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.73 Mbit/s

95th percentile per-packet one-way delay: 24.166 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 171.04 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 183.45 Mbit/s

95th percentile per-packet one-way delay: 28.155 ms

Loss rate: 0.10%

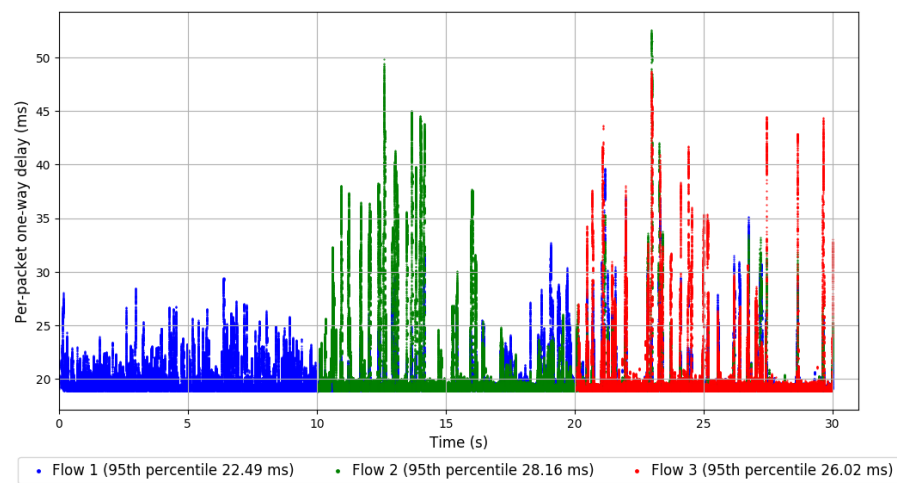
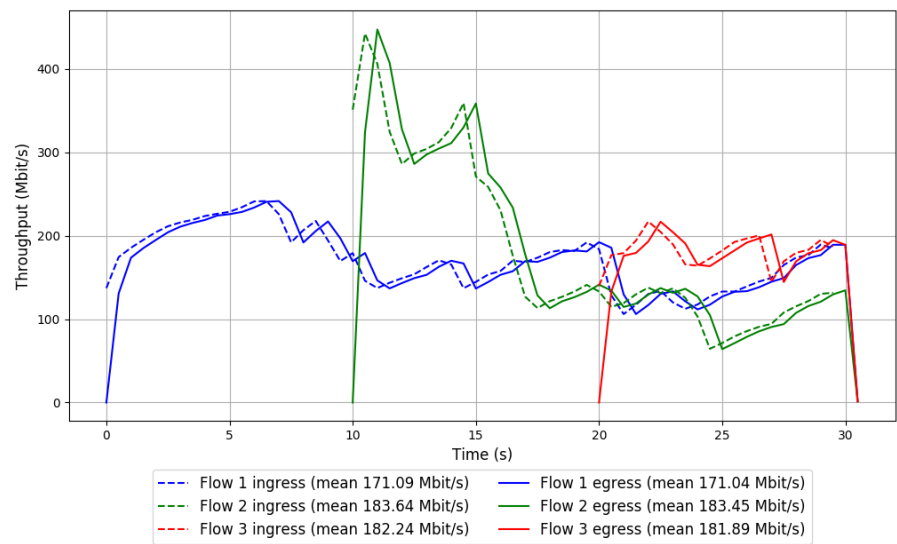
-- Flow 3:

Average throughput: 181.89 Mbit/s

95th percentile per-packet one-way delay: 26.022 ms

Loss rate: 0.17%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-30 19:58:27

End at: 2018-05-30 19:58:57

Local clock offset: -1.219 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-05-30 20:55:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 426.92 Mbit/s

95th percentile per-packet one-way delay: 23.917 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 167.87 Mbit/s

95th percentile per-packet one-way delay: 22.722 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 311.34 Mbit/s

95th percentile per-packet one-way delay: 25.308 ms

Loss rate: 0.11%

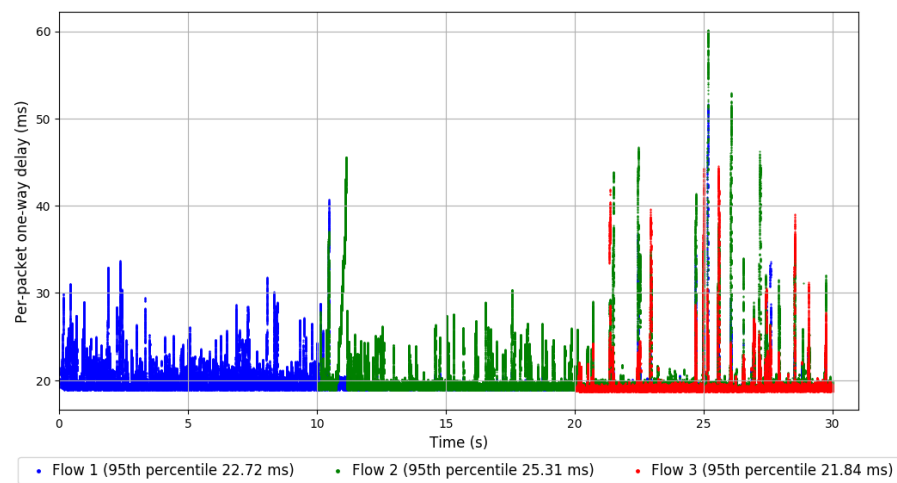
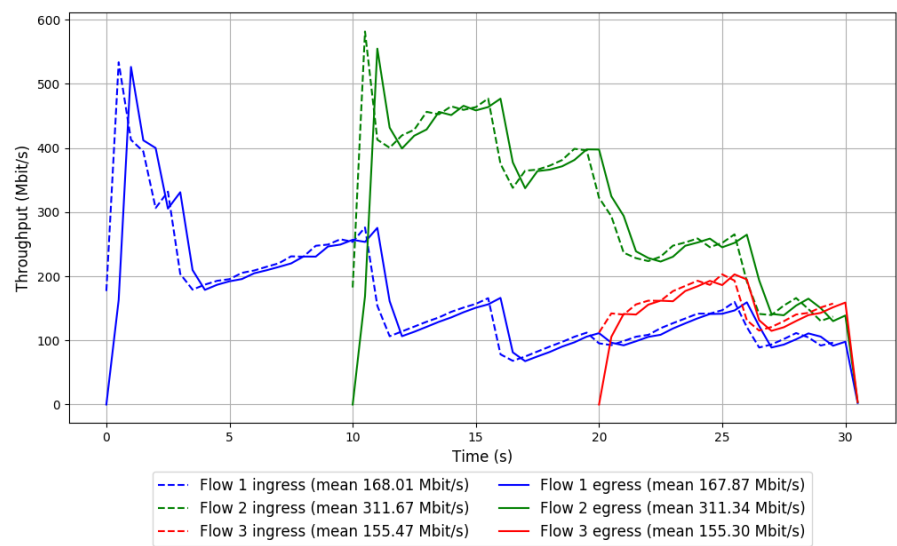
-- Flow 3:

Average throughput: 155.30 Mbit/s

95th percentile per-packet one-way delay: 21.841 ms

Loss rate: 0.11%

Run 10: Report of TCP Cubic — Data Link

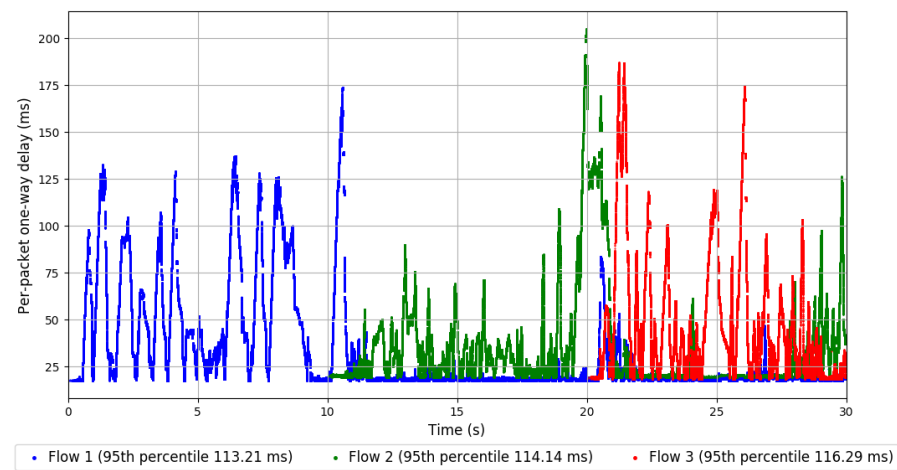
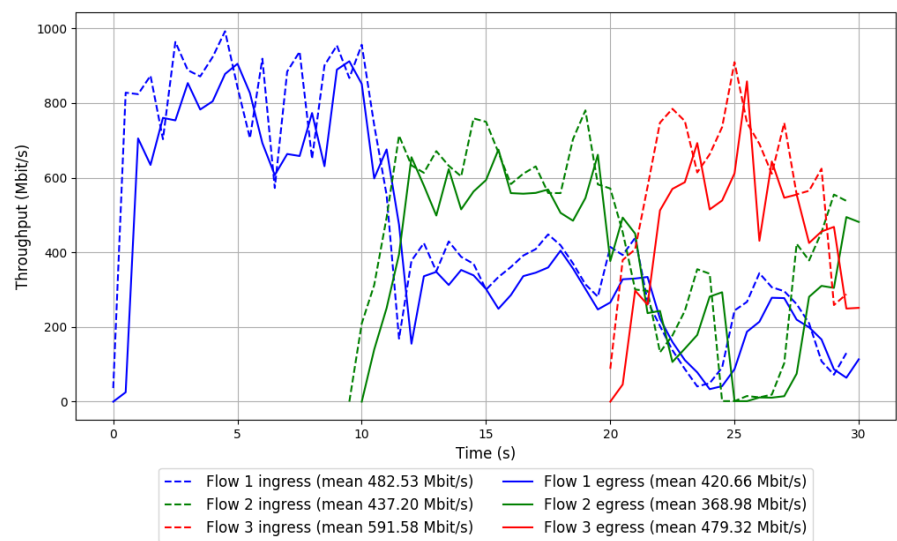


Run 1: Statistics of FillP

Start at: 2018-05-30 15:50:51
End at: 2018-05-30 15:51:21
Local clock offset: -0.019 ms
Remote clock offset: -0.275 ms

Below is generated by plot.py at 2018-05-30 21:03:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 825.35 Mbit/s
95th percentile per-packet one-way delay: 114.375 ms
Loss rate: 14.90%
-- Flow 1:
Average throughput: 420.66 Mbit/s
95th percentile per-packet one-way delay: 113.206 ms
Loss rate: 12.82%
-- Flow 2:
Average throughput: 368.98 Mbit/s
95th percentile per-packet one-way delay: 114.141 ms
Loss rate: 15.60%
-- Flow 3:
Average throughput: 479.32 Mbit/s
95th percentile per-packet one-way delay: 116.288 ms
Loss rate: 18.97%

Run 1: Report of FillP — Data Link

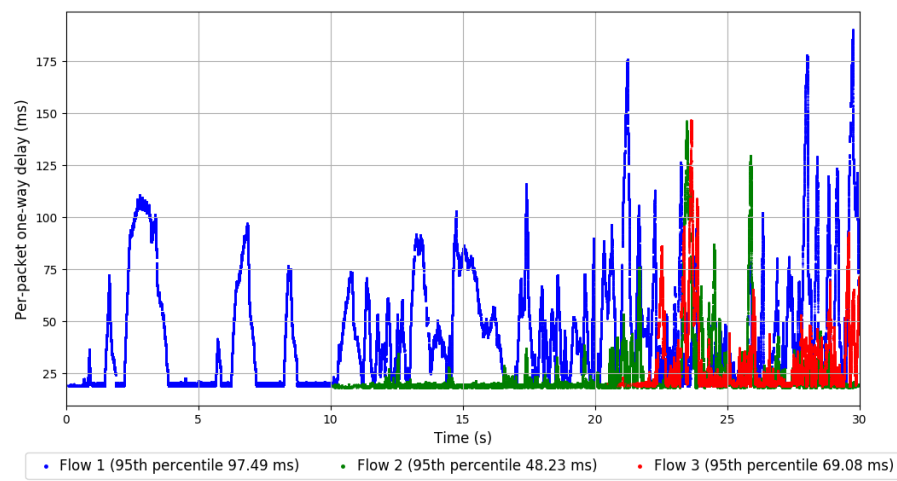
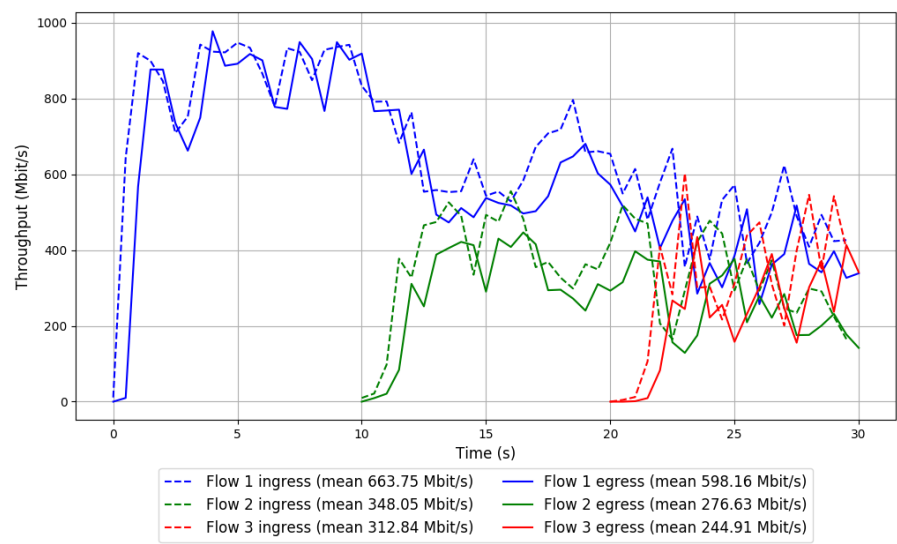


Run 2: Statistics of FillP

Start at: 2018-05-30 16:16:04
End at: 2018-05-30 16:16:34
Local clock offset: -0.01 ms
Remote clock offset: -0.385 ms

Below is generated by plot.py at 2018-05-30 21:04:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 860.15 Mbit/s
95th percentile per-packet one-way delay: 91.670 ms
Loss rate: 13.90%
-- Flow 1:
Average throughput: 598.16 Mbit/s
95th percentile per-packet one-way delay: 97.488 ms
Loss rate: 9.88%
-- Flow 2:
Average throughput: 276.63 Mbit/s
95th percentile per-packet one-way delay: 48.228 ms
Loss rate: 20.52%
-- Flow 3:
Average throughput: 244.91 Mbit/s
95th percentile per-packet one-way delay: 69.077 ms
Loss rate: 24.88%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-30 16:41:54

End at: 2018-05-30 16:42:24

Local clock offset: 0.182 ms

Remote clock offset: 0.544 ms

Below is generated by plot.py at 2018-05-30 21:04:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 832.55 Mbit/s

95th percentile per-packet one-way delay: 103.215 ms

Loss rate: 13.81%

-- Flow 1:

Average throughput: 519.46 Mbit/s

95th percentile per-packet one-way delay: 102.369 ms

Loss rate: 10.48%

-- Flow 2:

Average throughput: 251.80 Mbit/s

95th percentile per-packet one-way delay: 138.959 ms

Loss rate: 19.62%

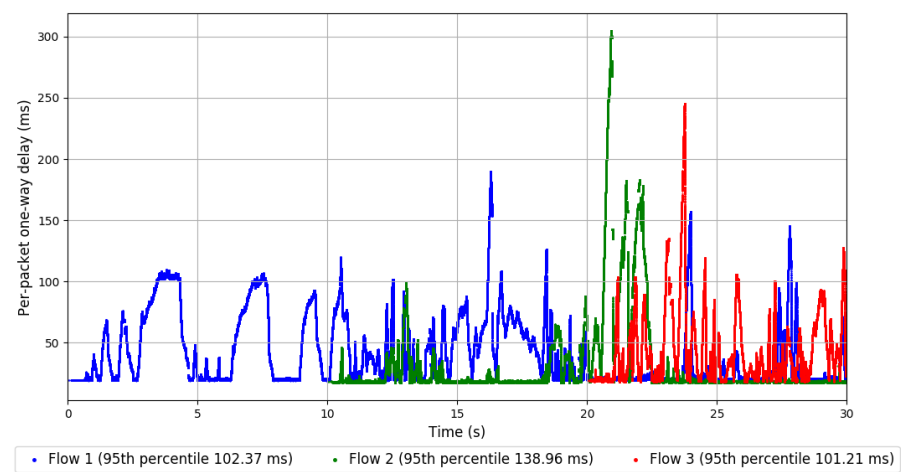
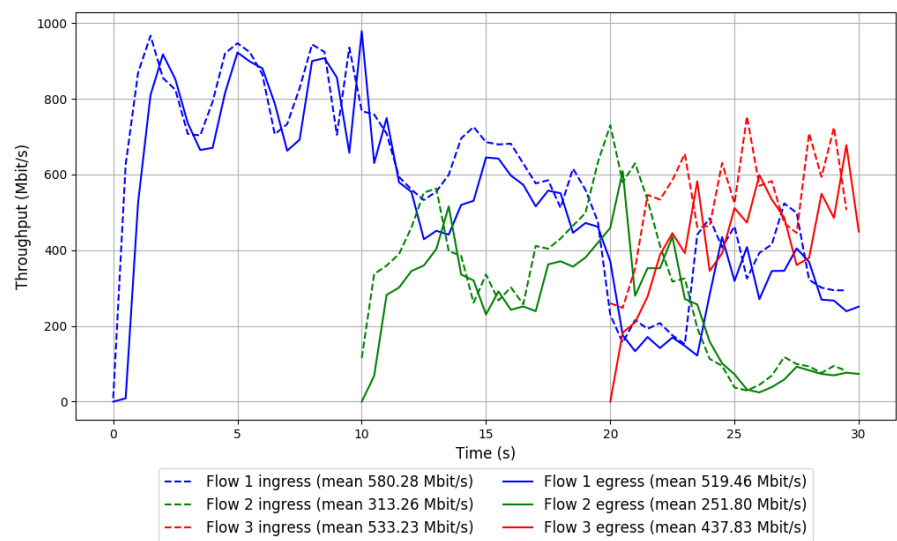
-- Flow 3:

Average throughput: 437.83 Mbit/s

95th percentile per-packet one-way delay: 101.214 ms

Loss rate: 17.88%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-30 17:07:38

End at: 2018-05-30 17:08:08

Local clock offset: 0.459 ms

Remote clock offset: 0.361 ms

Below is generated by plot.py at 2018-05-30 21:04:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 764.22 Mbit/s

95th percentile per-packet one-way delay: 119.676 ms

Loss rate: 13.70%

-- Flow 1:

Average throughput: 444.29 Mbit/s

95th percentile per-packet one-way delay: 110.331 ms

Loss rate: 11.00%

-- Flow 2:

Average throughput: 388.04 Mbit/s

95th percentile per-packet one-way delay: 129.689 ms

Loss rate: 16.69%

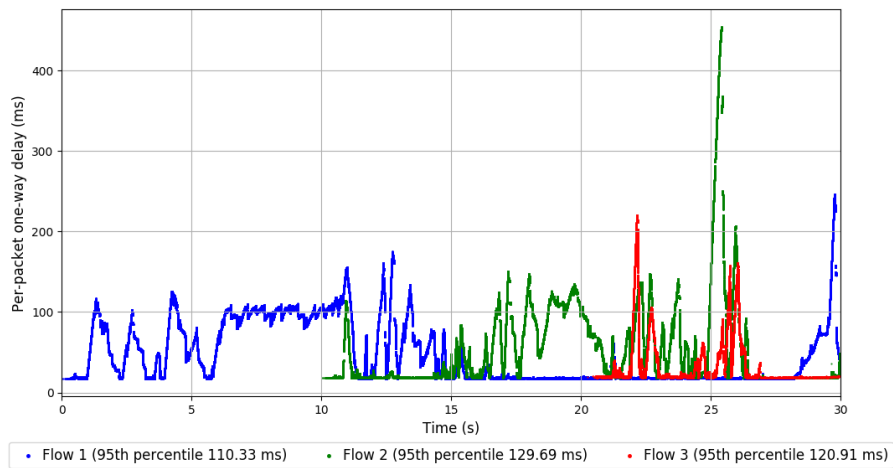
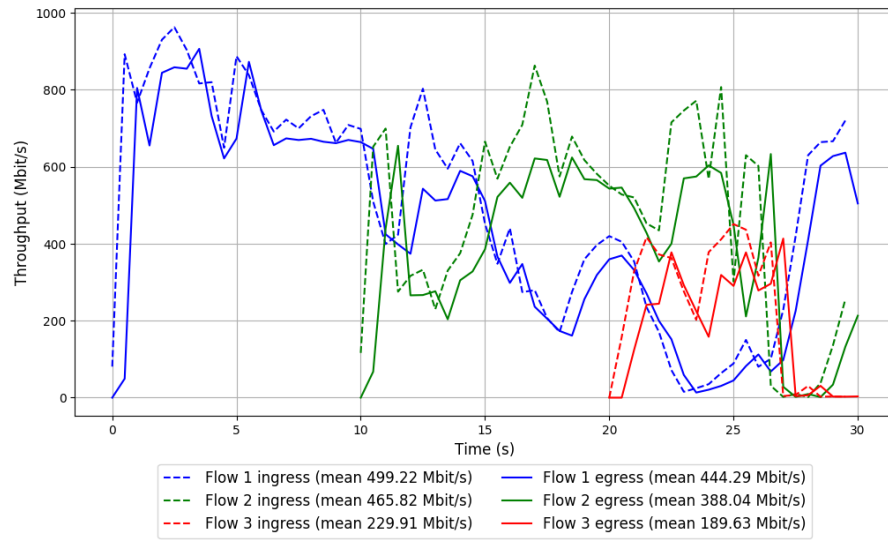
-- Flow 3:

Average throughput: 189.63 Mbit/s

95th percentile per-packet one-way delay: 120.911 ms

Loss rate: 19.20%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-30 17:33:05

End at: 2018-05-30 17:33:35

Local clock offset: -0.0 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-05-30 21:04:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 807.41 Mbit/s

95th percentile per-packet one-way delay: 105.679 ms

Loss rate: 13.05%

-- Flow 1:

Average throughput: 540.67 Mbit/s

95th percentile per-packet one-way delay: 106.643 ms

Loss rate: 11.45%

-- Flow 2:

Average throughput: 185.60 Mbit/s

95th percentile per-packet one-way delay: 30.131 ms

Loss rate: 15.87%

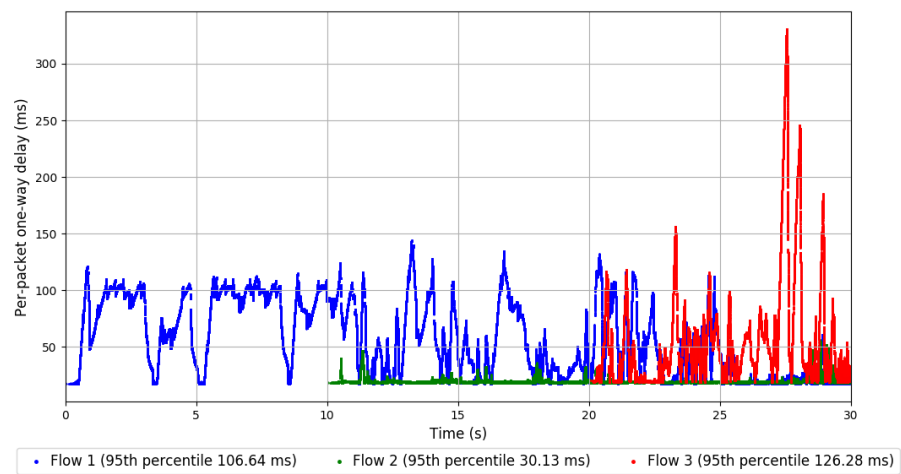
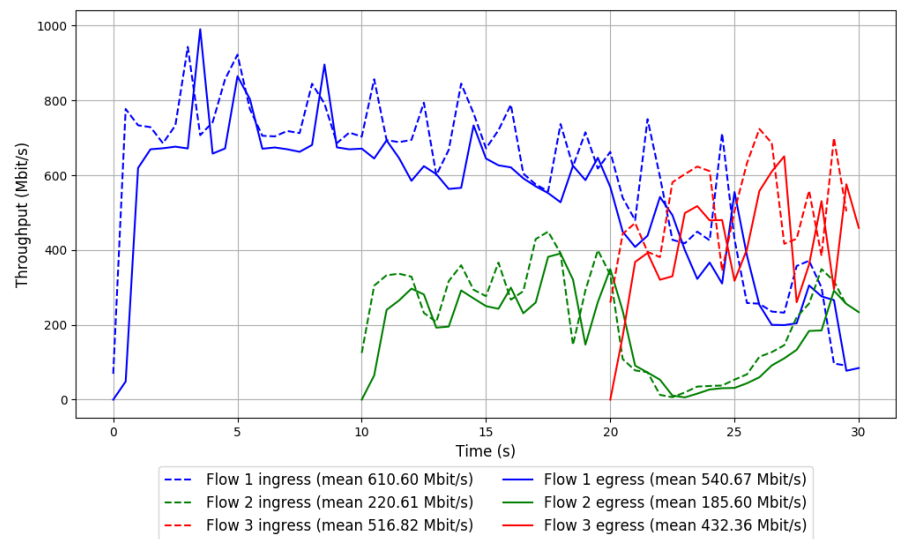
-- Flow 3:

Average throughput: 432.36 Mbit/s

95th percentile per-packet one-way delay: 126.279 ms

Loss rate: 16.34%

Run 5: Report of FillP — Data Link

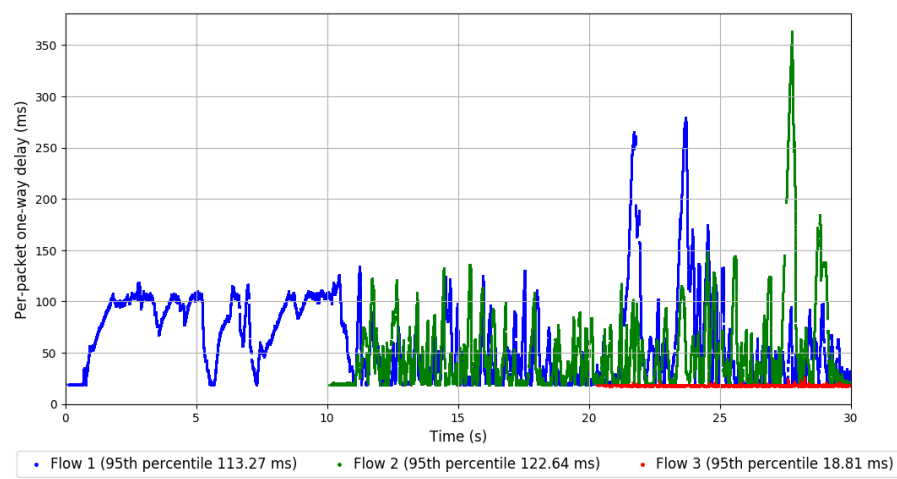
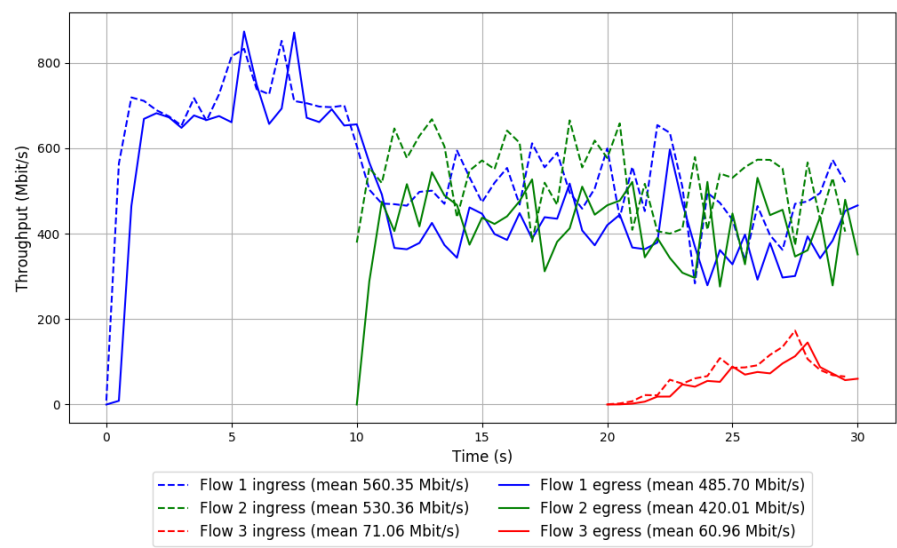


Run 6: Statistics of FillP

Start at: 2018-05-30 17:58:41
End at: 2018-05-30 17:59:11
Local clock offset: -0.076 ms
Remote clock offset: -0.385 ms

Below is generated by plot.py at 2018-05-30 21:04:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 785.02 Mbit/s
95th percentile per-packet one-way delay: 114.536 ms
Loss rate: 16.20%
-- Flow 1:
Average throughput: 485.70 Mbit/s
95th percentile per-packet one-way delay: 113.272 ms
Loss rate: 13.32%
-- Flow 2:
Average throughput: 420.01 Mbit/s
95th percentile per-packet one-way delay: 122.639 ms
Loss rate: 20.80%
-- Flow 3:
Average throughput: 60.96 Mbit/s
95th percentile per-packet one-way delay: 18.809 ms
Loss rate: 15.96%

Run 6: Report of FillP — Data Link

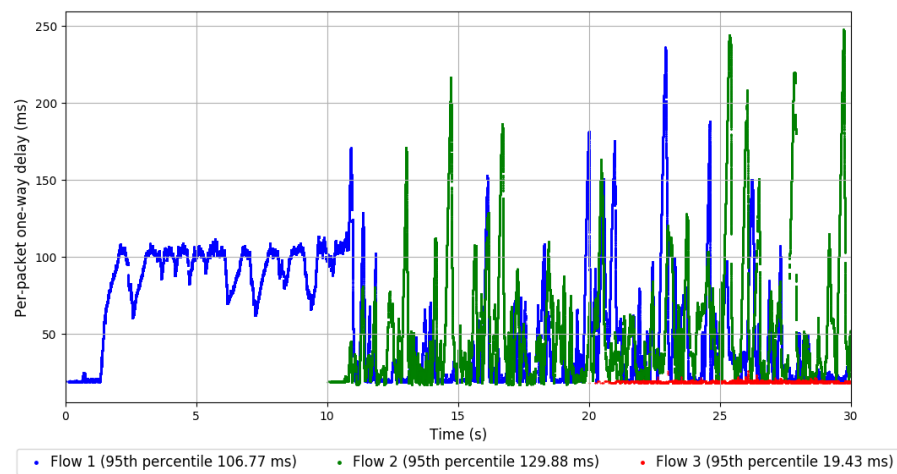
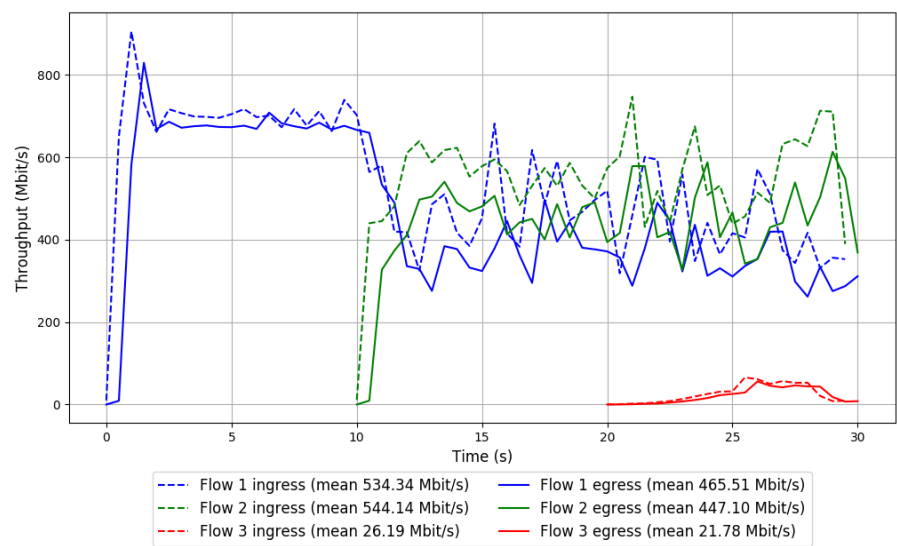


Run 7: Statistics of FillP

Start at: 2018-05-30 18:24:14
End at: 2018-05-30 18:24:44
Local clock offset: 0.03 ms
Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-05-30 21:06:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 770.45 Mbit/s
95th percentile per-packet one-way delay: 109.196 ms
Loss rate: 14.90%
-- Flow 1:
Average throughput: 465.51 Mbit/s
95th percentile per-packet one-way delay: 106.771 ms
Loss rate: 12.88%
-- Flow 2:
Average throughput: 447.10 Mbit/s
95th percentile per-packet one-way delay: 129.884 ms
Loss rate: 17.83%
-- Flow 3:
Average throughput: 21.78 Mbit/s
95th percentile per-packet one-way delay: 19.427 ms
Loss rate: 16.86%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-30 18:49:50

End at: 2018-05-30 18:50:20

Local clock offset: 0.352 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-05-30 21:09:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 803.31 Mbit/s

95th percentile per-packet one-way delay: 114.354 ms

Loss rate: 14.93%

-- Flow 1:

Average throughput: 425.11 Mbit/s

95th percentile per-packet one-way delay: 107.737 ms

Loss rate: 11.75%

-- Flow 2:

Average throughput: 429.25 Mbit/s

95th percentile per-packet one-way delay: 131.916 ms

Loss rate: 16.61%

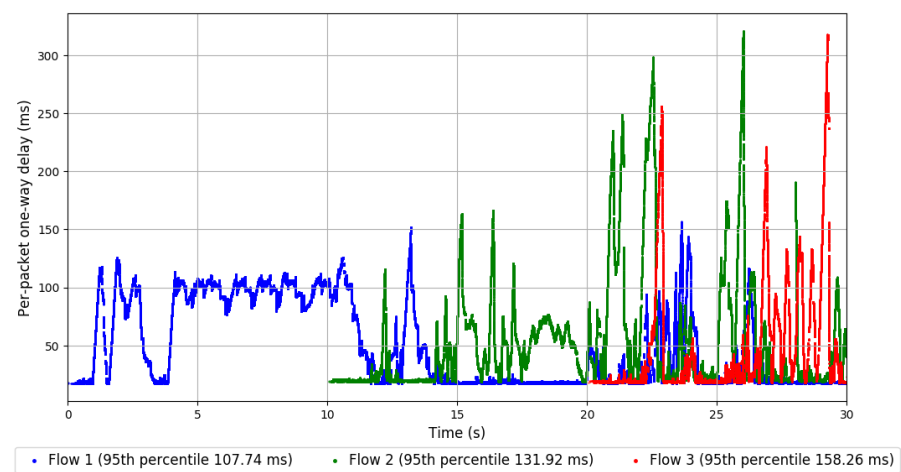
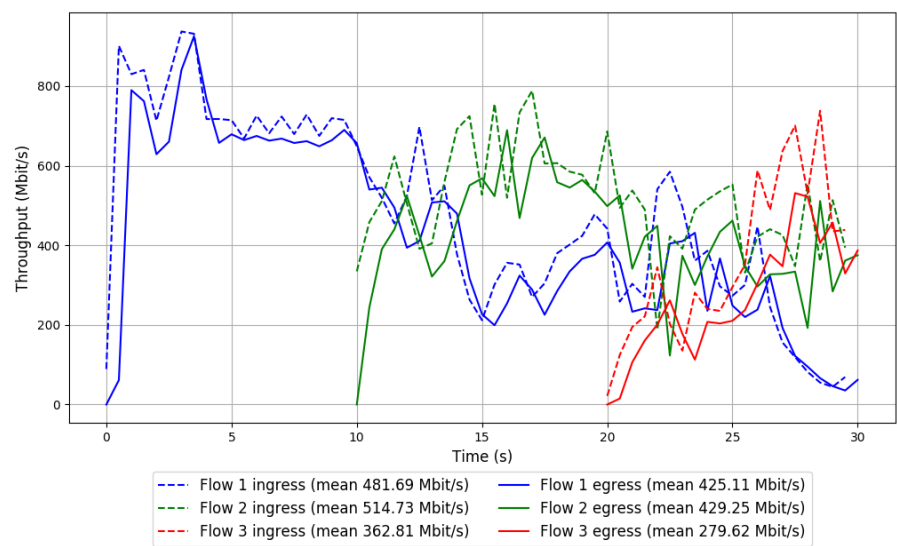
-- Flow 3:

Average throughput: 279.62 Mbit/s

95th percentile per-packet one-way delay: 158.261 ms

Loss rate: 22.89%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-30 19:15:24

End at: 2018-05-30 19:15:54

Local clock offset: -0.562 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-05-30 21:15:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 694.37 Mbit/s

95th percentile per-packet one-way delay: 114.181 ms

Loss rate: 16.40%

-- Flow 1:

Average throughput: 448.38 Mbit/s

95th percentile per-packet one-way delay: 112.257 ms

Loss rate: 12.95%

-- Flow 2:

Average throughput: 274.05 Mbit/s

95th percentile per-packet one-way delay: 87.662 ms

Loss rate: 20.97%

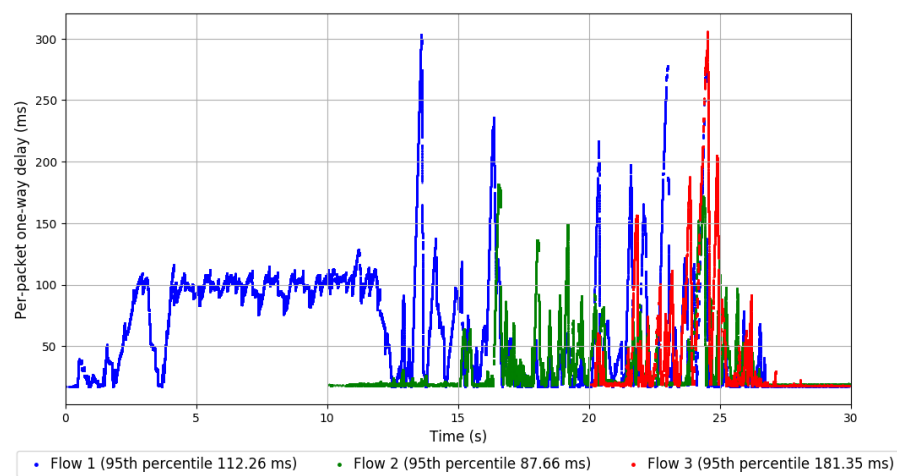
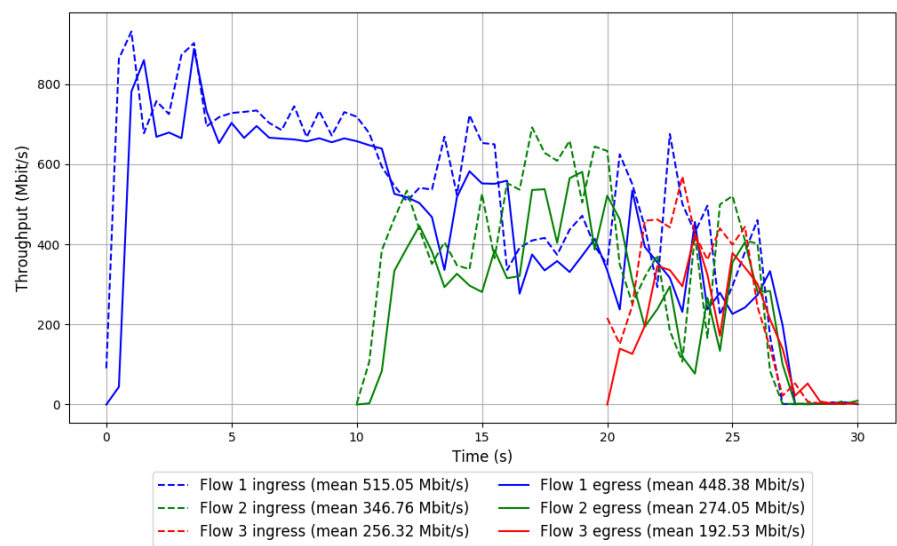
-- Flow 3:

Average throughput: 192.53 Mbit/s

95th percentile per-packet one-way delay: 181.350 ms

Loss rate: 24.90%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-30 19:41:01

End at: 2018-05-30 19:41:31

Local clock offset: -1.177 ms

Remote clock offset: 0.111 ms

Below is generated by plot.py at 2018-05-30 21:17:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 808.29 Mbit/s

95th percentile per-packet one-way delay: 104.390 ms

Loss rate: 14.07%

-- Flow 1:

Average throughput: 528.49 Mbit/s

95th percentile per-packet one-way delay: 105.493 ms

Loss rate: 11.25%

-- Flow 2:

Average throughput: 241.95 Mbit/s

95th percentile per-packet one-way delay: 82.797 ms

Loss rate: 16.63%

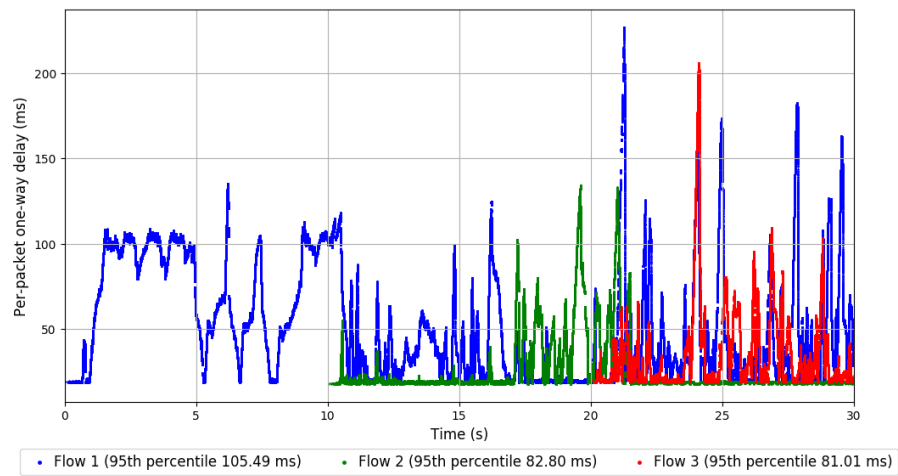
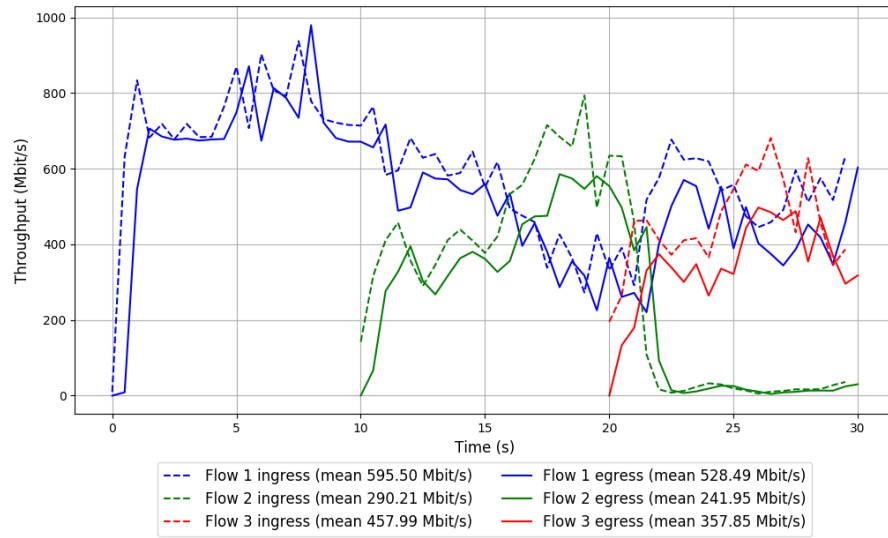
-- Flow 3:

Average throughput: 357.85 Mbit/s

95th percentile per-packet one-way delay: 81.009 ms

Loss rate: 21.86%

Run 10: Report of FillP — Data Link

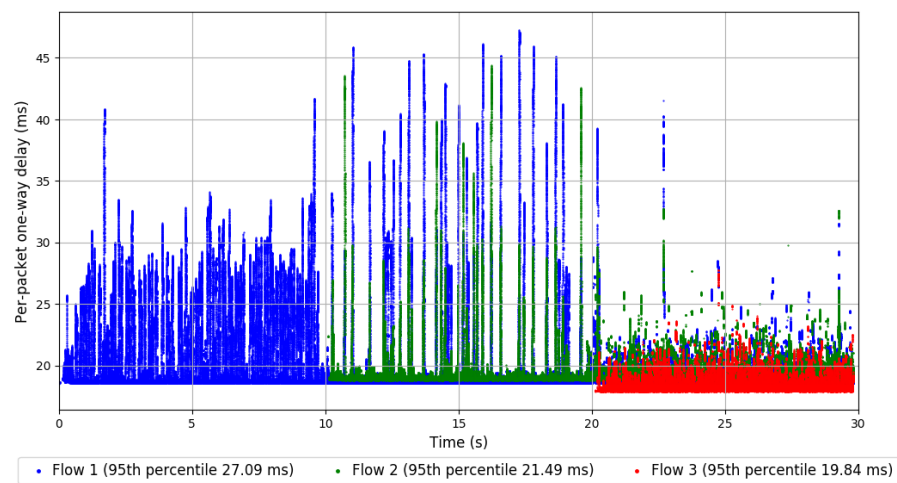
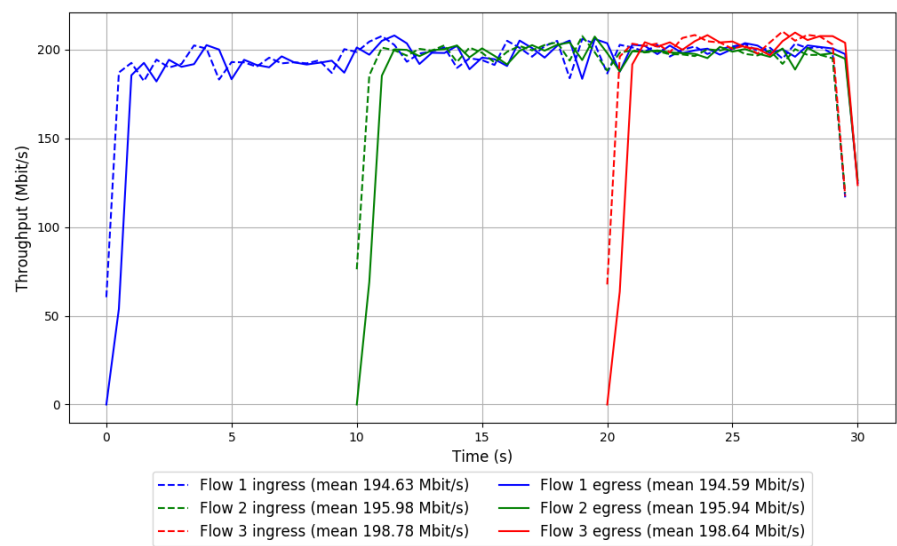


Run 1: Statistics of Indigo

Start at: 2018-05-30 15:58:44
End at: 2018-05-30 15:59:14
Local clock offset: 0.095 ms
Remote clock offset: -0.542 ms

Below is generated by plot.py at 2018-05-30 21:17:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 388.69 Mbit/s
95th percentile per-packet one-way delay: 25.314 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 194.59 Mbit/s
95th percentile per-packet one-way delay: 27.094 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 195.94 Mbit/s
95th percentile per-packet one-way delay: 21.490 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 198.64 Mbit/s
95th percentile per-packet one-way delay: 19.835 ms
Loss rate: 0.07%

Run 1: Report of Indigo — Data Link

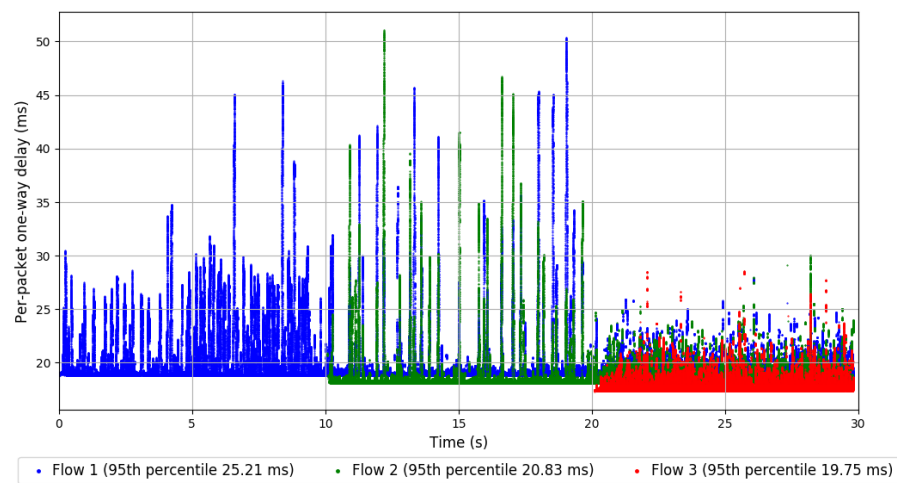
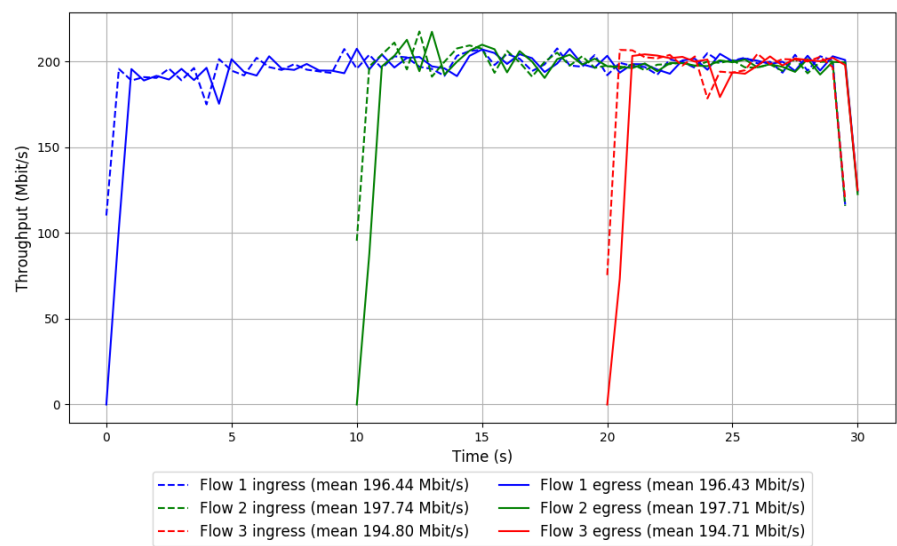


Run 2: Statistics of Indigo

Start at: 2018-05-30 16:24:03
End at: 2018-05-30 16:24:33
Local clock offset: 0.006 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2018-05-30 21:17:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 390.92 Mbit/s
95th percentile per-packet one-way delay: 23.151 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 196.43 Mbit/s
95th percentile per-packet one-way delay: 25.209 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 197.71 Mbit/s
95th percentile per-packet one-way delay: 20.830 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 194.71 Mbit/s
95th percentile per-packet one-way delay: 19.752 ms
Loss rate: 0.02%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-30 16:49:54

End at: 2018-05-30 16:50:24

Local clock offset: 0.152 ms

Remote clock offset: 0.686 ms

Below is generated by plot.py at 2018-05-30 21:17:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 386.94 Mbit/s

95th percentile per-packet one-way delay: 23.307 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 195.21 Mbit/s

95th percentile per-packet one-way delay: 25.588 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 195.24 Mbit/s

95th percentile per-packet one-way delay: 20.471 ms

Loss rate: 0.00%

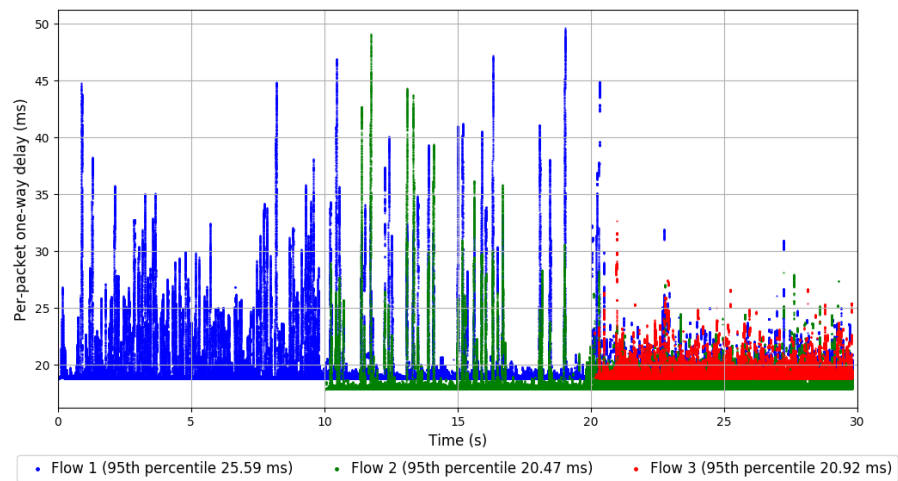
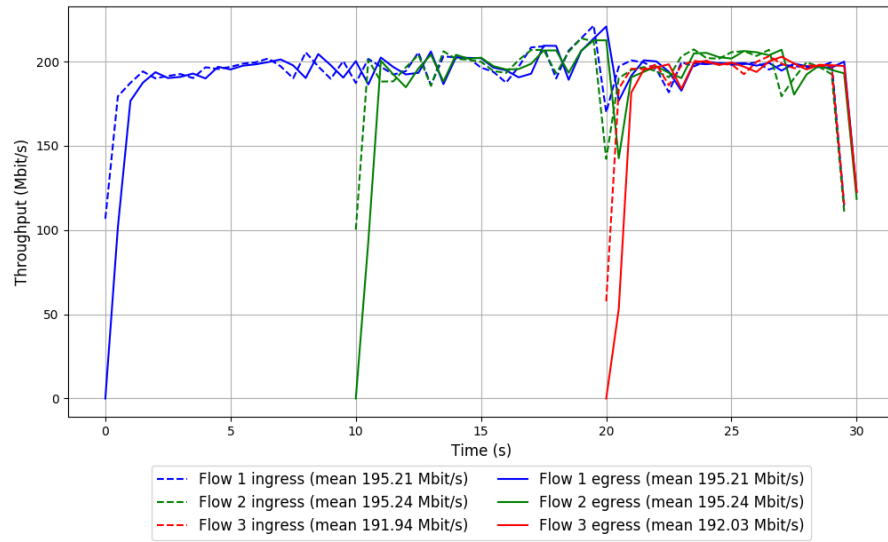
-- Flow 3:

Average throughput: 192.03 Mbit/s

95th percentile per-packet one-way delay: 20.921 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-30 17:15:36

End at: 2018-05-30 17:16:06

Local clock offset: 0.4 ms

Remote clock offset: 0.333 ms

Below is generated by plot.py at 2018-05-30 21:17:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.22 Mbit/s

95th percentile per-packet one-way delay: 23.930 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 194.69 Mbit/s

95th percentile per-packet one-way delay: 26.314 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 194.36 Mbit/s

95th percentile per-packet one-way delay: 21.989 ms

Loss rate: 0.00%

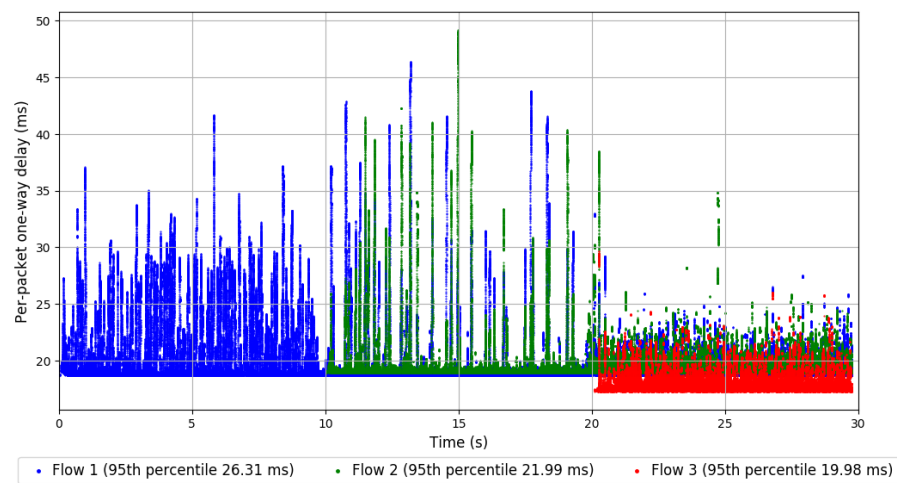
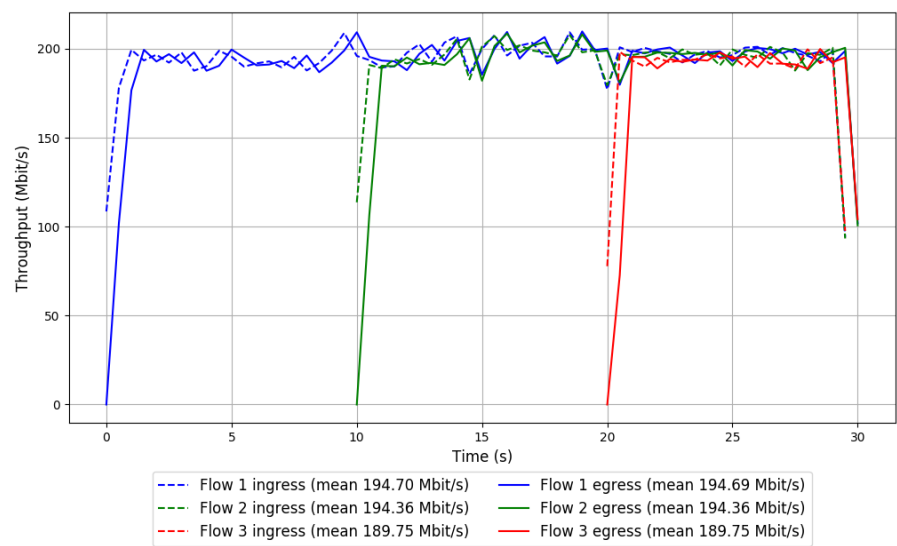
-- Flow 3:

Average throughput: 189.75 Mbit/s

95th percentile per-packet one-way delay: 19.982 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

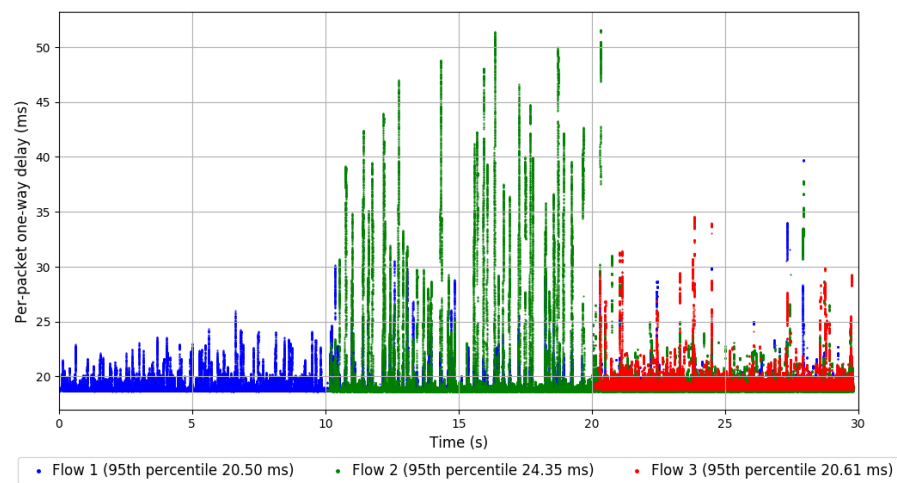
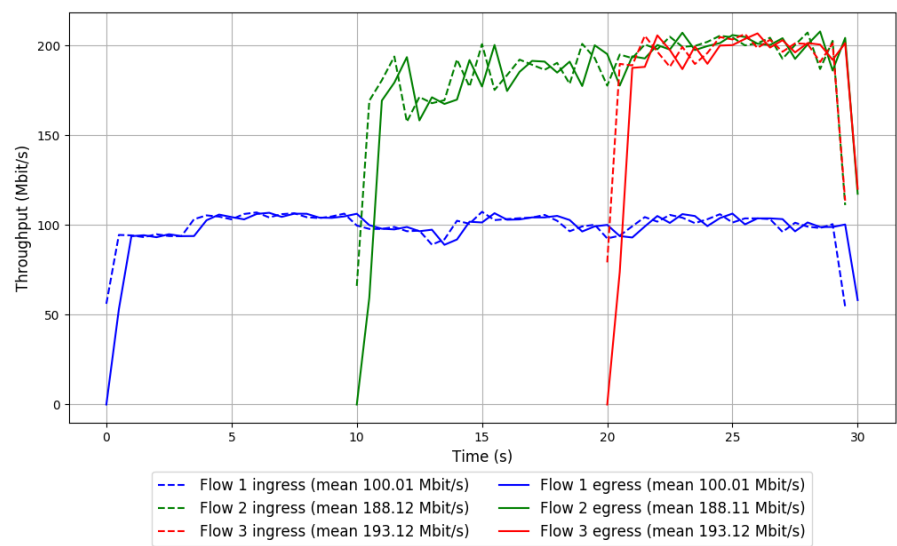


Run 5: Statistics of Indigo

Start at: 2018-05-30 17:41:10
End at: 2018-05-30 17:41:40
Local clock offset: -0.099 ms
Remote clock offset: -0.244 ms

Below is generated by plot.py at 2018-05-30 21:17:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 287.52 Mbit/s
95th percentile per-packet one-way delay: 21.475 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 100.01 Mbit/s
95th percentile per-packet one-way delay: 20.496 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 188.11 Mbit/s
95th percentile per-packet one-way delay: 24.346 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 193.12 Mbit/s
95th percentile per-packet one-way delay: 20.608 ms
Loss rate: 0.01%

Run 5: Report of Indigo — Data Link

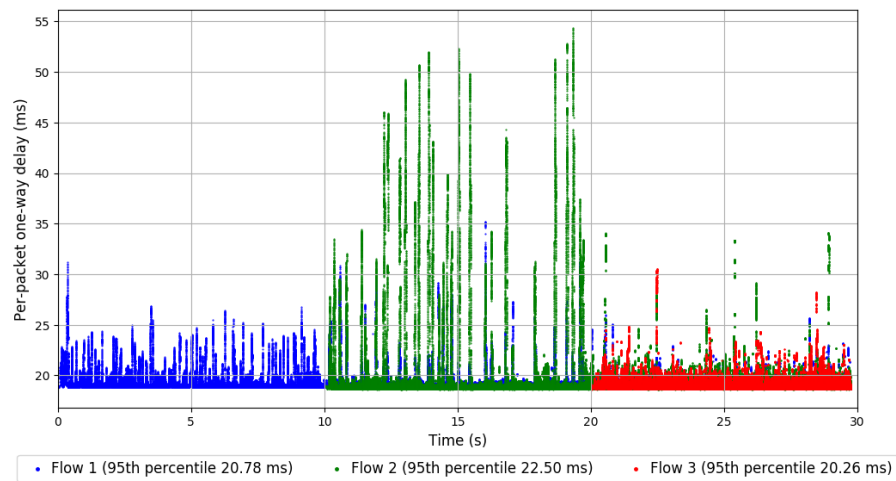
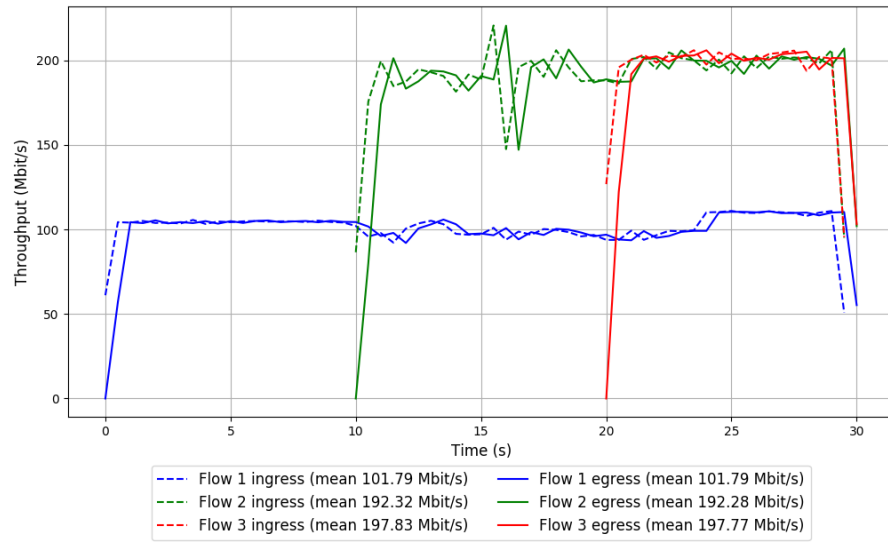


Run 6: Statistics of Indigo

Start at: 2018-05-30 18:06:35
End at: 2018-05-30 18:07:05
Local clock offset: 0.034 ms
Remote clock offset: -0.223 ms

Below is generated by plot.py at 2018-05-30 21:17:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 293.73 Mbit/s
95th percentile per-packet one-way delay: 20.901 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 101.79 Mbit/s
95th percentile per-packet one-way delay: 20.784 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 192.28 Mbit/s
95th percentile per-packet one-way delay: 22.501 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 197.77 Mbit/s
95th percentile per-packet one-way delay: 20.257 ms
Loss rate: 0.03%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-30 18:32:14

End at: 2018-05-30 18:32:44

Local clock offset: 0.254 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2018-05-30 21:17:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 390.89 Mbit/s

95th percentile per-packet one-way delay: 21.594 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 197.42 Mbit/s

95th percentile per-packet one-way delay: 23.113 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 198.82 Mbit/s

95th percentile per-packet one-way delay: 20.289 ms

Loss rate: 0.01%

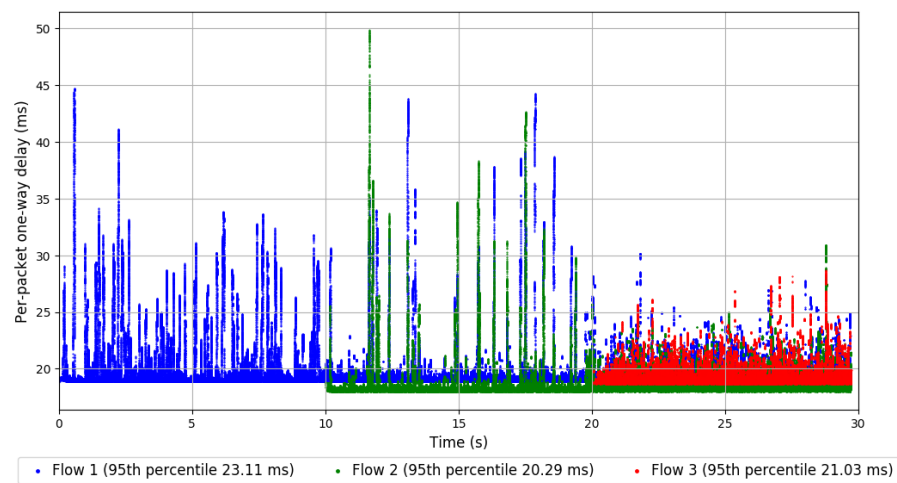
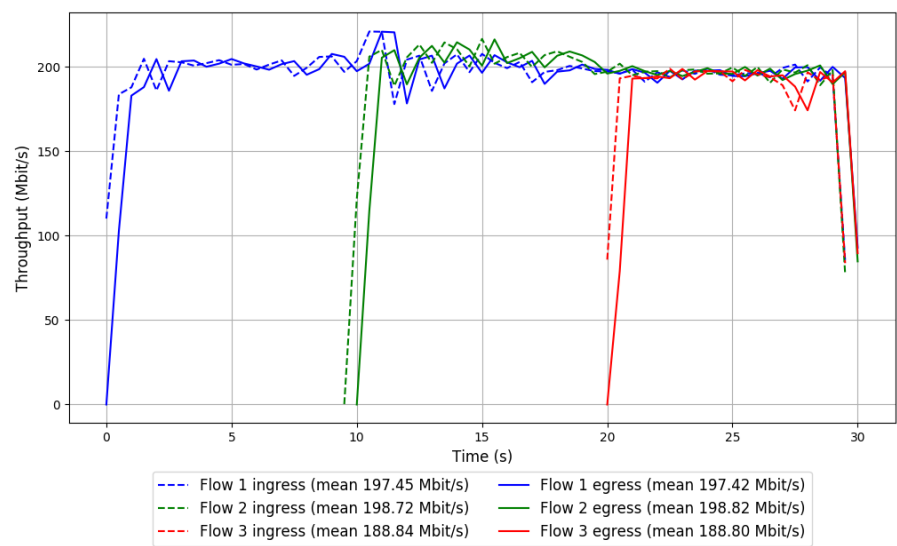
-- Flow 3:

Average throughput: 188.80 Mbit/s

95th percentile per-packet one-way delay: 21.033 ms

Loss rate: 0.03%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-30 18:57:51

End at: 2018-05-30 18:58:21

Local clock offset: 0.026 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-05-30 21:17:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 386.71 Mbit/s

95th percentile per-packet one-way delay: 22.941 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 192.48 Mbit/s

95th percentile per-packet one-way delay: 25.673 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 199.69 Mbit/s

95th percentile per-packet one-way delay: 20.239 ms

Loss rate: 0.00%

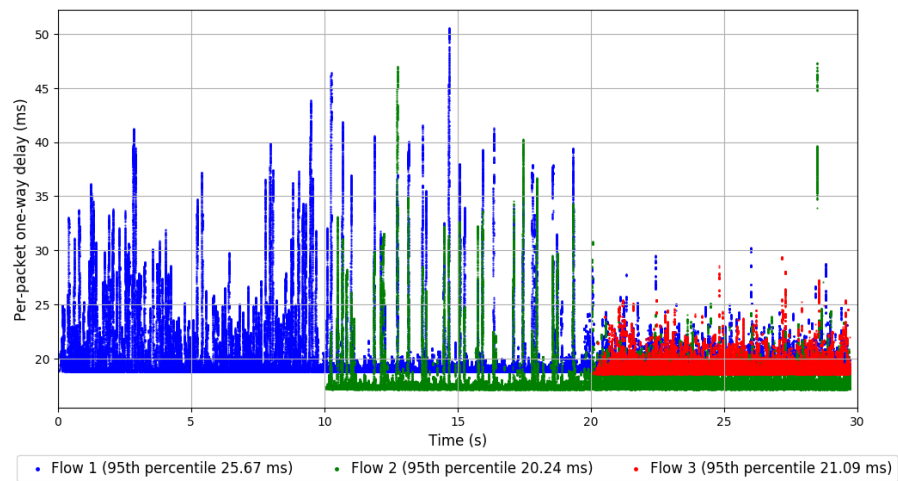
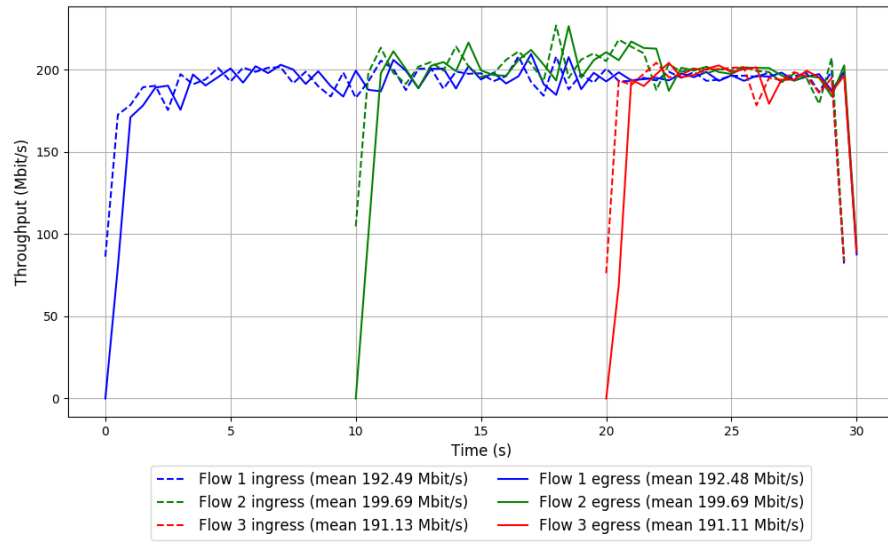
-- Flow 3:

Average throughput: 191.11 Mbit/s

95th percentile per-packet one-way delay: 21.091 ms

Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-30 19:23:24

End at: 2018-05-30 19:23:54

Local clock offset: -0.836 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-05-30 21:17:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 383.51 Mbit/s

95th percentile per-packet one-way delay: 22.037 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 193.76 Mbit/s

95th percentile per-packet one-way delay: 23.196 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 194.28 Mbit/s

95th percentile per-packet one-way delay: 21.576 ms

Loss rate: 0.00%

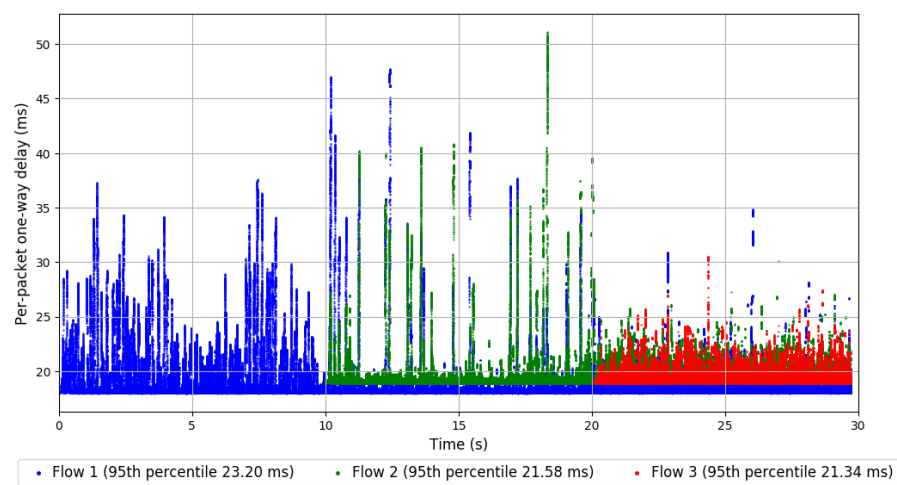
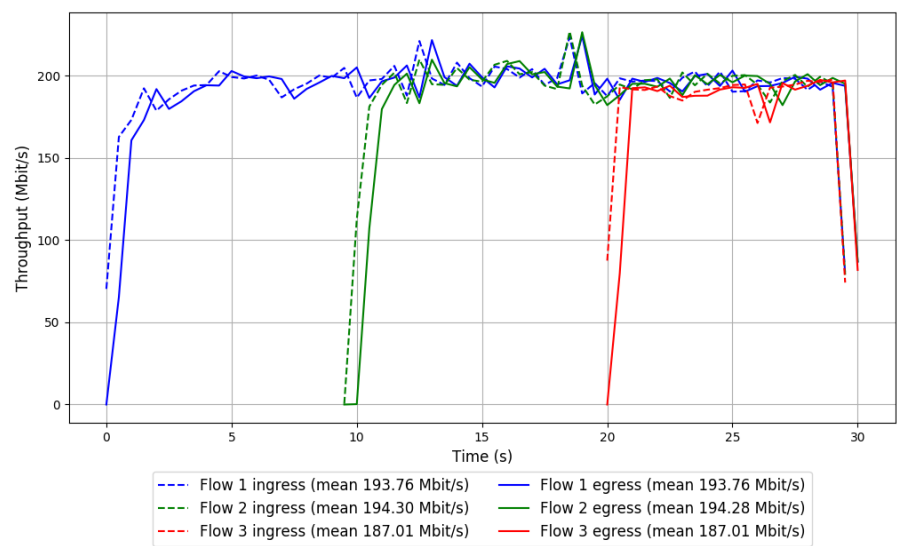
-- Flow 3:

Average throughput: 187.01 Mbit/s

95th percentile per-packet one-way delay: 21.336 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-30 19:48:56

End at: 2018-05-30 19:49:26

Local clock offset: -1.479 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-05-30 21:17:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 390.27 Mbit/s

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

Loss rate: 0.02%

-- Flow 1:

Average throughput: 196.93 Mbit/s

95th percentile per-packet one-way delay: 24.116 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 196.13 Mbit/s

95th percentile per-packet one-way delay: 21.511 ms

Loss rate: 0.02%

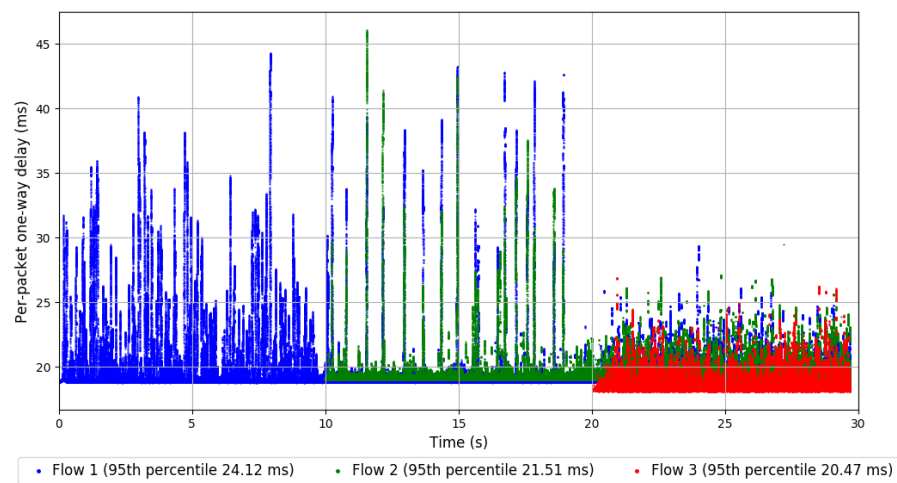
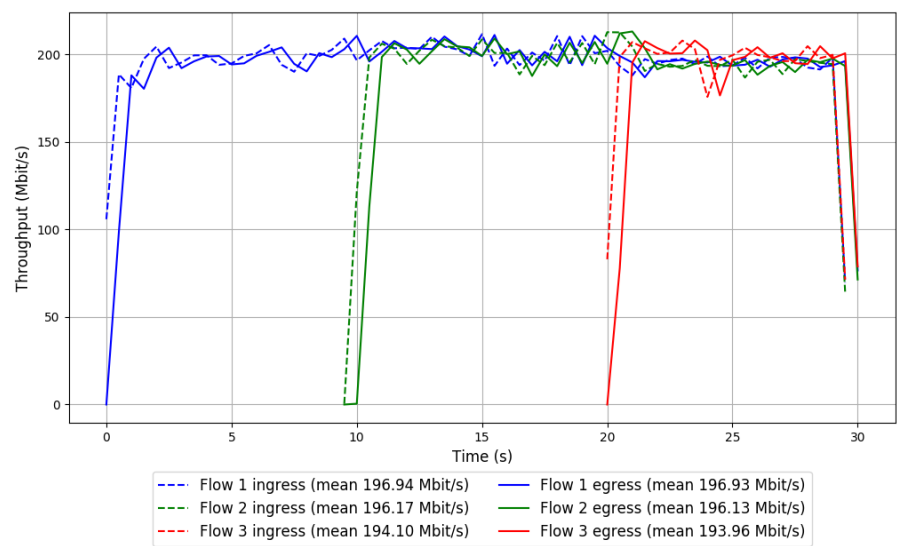
-- Flow 3:

Average throughput: 193.96 Mbit/s

95th percentile per-packet one-way delay: 20.470 ms

Loss rate: 0.06%

Run 10: Report of Indigo — Data Link

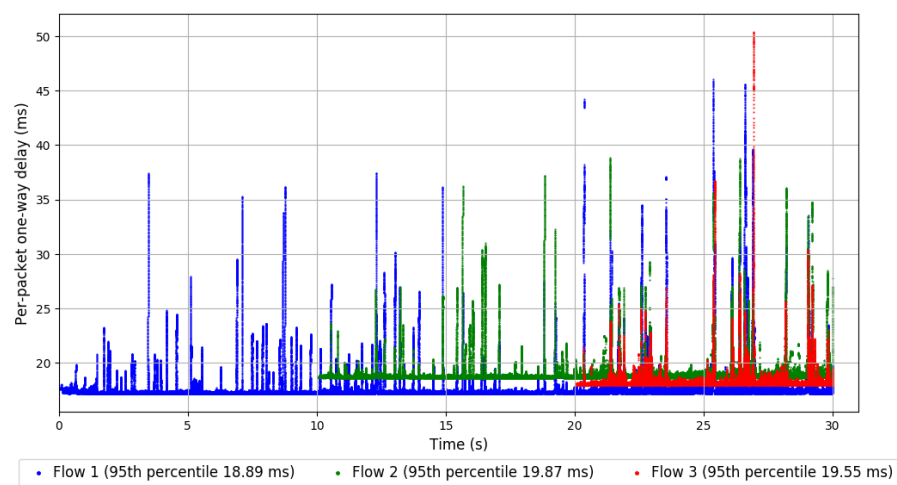
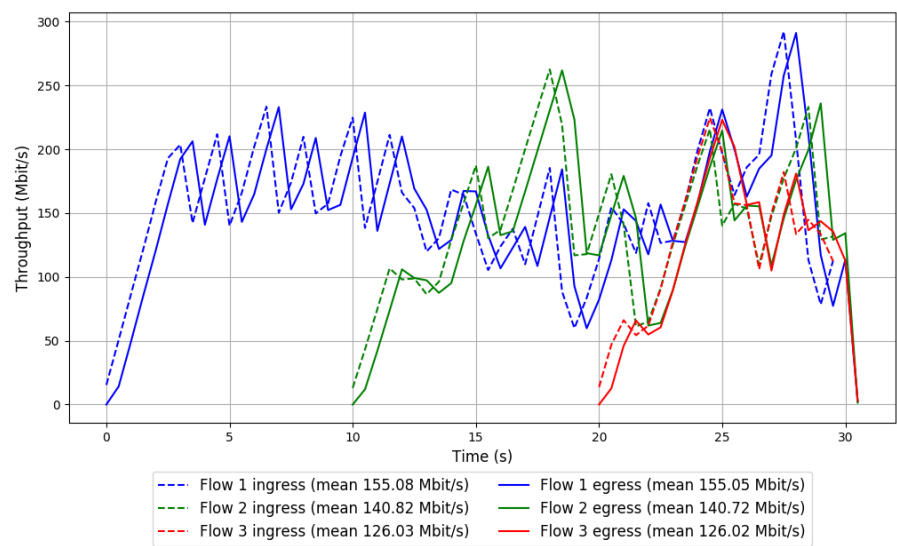


Run 1: Statistics of LEDBAT

Start at: 2018-05-30 15:55:49
End at: 2018-05-30 15:56:19
Local clock offset: 0.111 ms
Remote clock offset: -0.475 ms

Below is generated by plot.py at 2018-05-30 21:17:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 290.70 Mbit/s
95th percentile per-packet one-way delay: 19.445 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 155.05 Mbit/s
95th percentile per-packet one-way delay: 18.888 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 140.72 Mbit/s
95th percentile per-packet one-way delay: 19.871 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 126.02 Mbit/s
95th percentile per-packet one-way delay: 19.547 ms
Loss rate: 0.01%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-30 16:21:01

End at: 2018-05-30 16:21:31

Local clock offset: -0.011 ms

Remote clock offset: -0.32 ms

Below is generated by plot.py at 2018-05-30 21:18:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 408.38 Mbit/s

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

Loss rate: 0.04%

-- Flow 1:

Average throughput: 242.99 Mbit/s

95th percentile per-packet one-way delay: 19.563 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 177.68 Mbit/s

95th percentile per-packet one-way delay: 19.485 ms

Loss rate: 0.05%

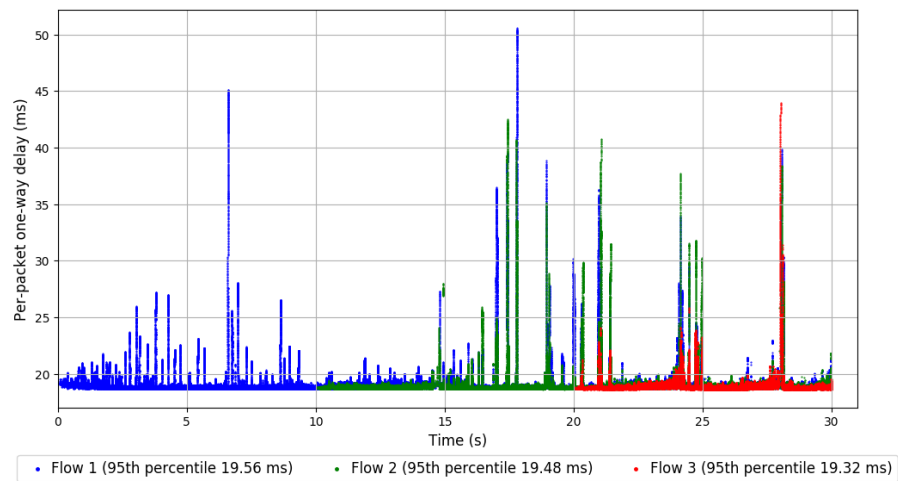
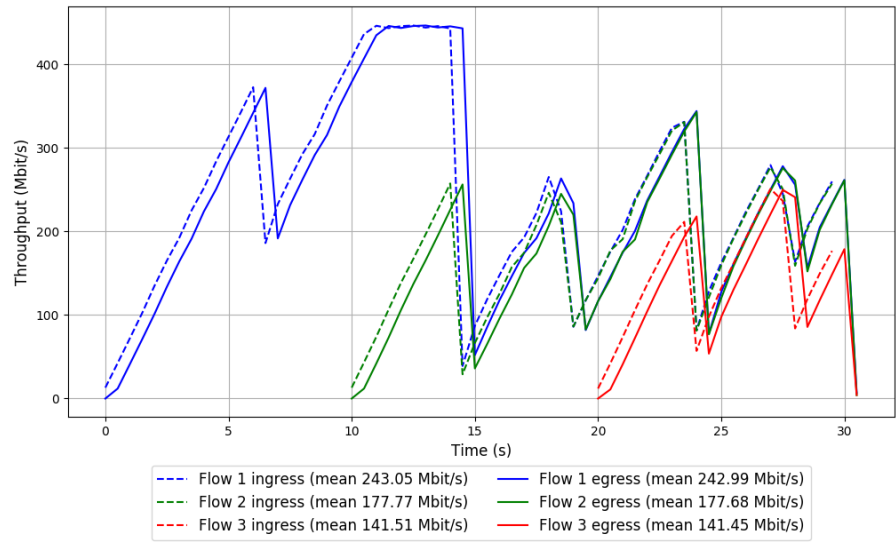
-- Flow 3:

Average throughput: 141.45 Mbit/s

95th percentile per-packet one-way delay: 19.318 ms

Loss rate: 0.04%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-30 16:46:50

End at: 2018-05-30 16:47:20

Local clock offset: 0.167 ms

Remote clock offset: 0.604 ms

Below is generated by plot.py at 2018-05-30 21:18:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 409.99 Mbit/s

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

Loss rate: 0.05%

-- Flow 1:

Average throughput: 204.93 Mbit/s

95th percentile per-packet one-way delay: 19.578 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 233.24 Mbit/s

95th percentile per-packet one-way delay: 18.920 ms

Loss rate: 0.03%

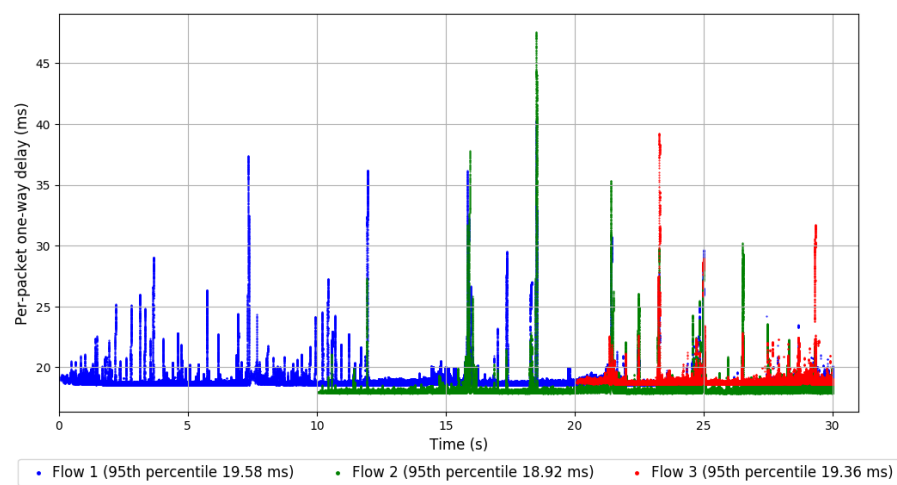
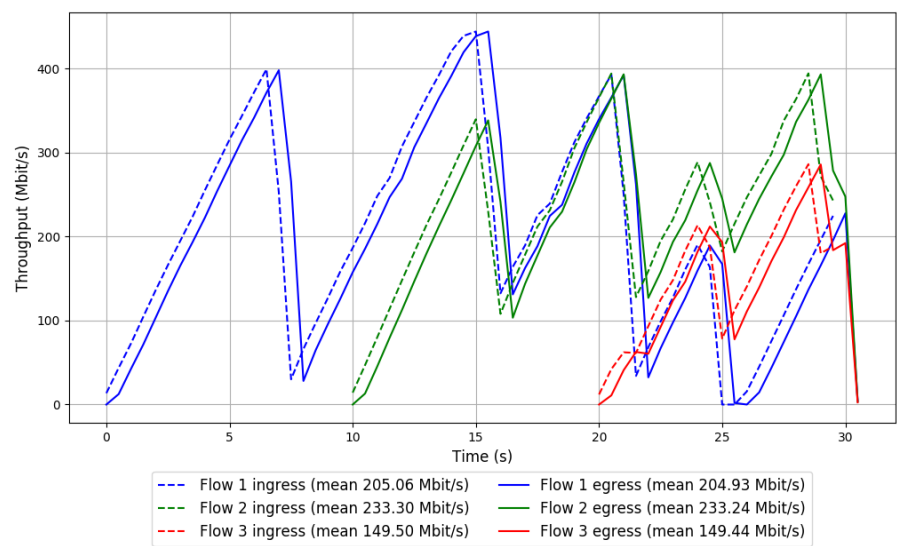
-- Flow 3:

Average throughput: 149.44 Mbit/s

95th percentile per-packet one-way delay: 19.356 ms

Loss rate: 0.05%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-30 17:12:30

End at: 2018-05-30 17:13:00

Local clock offset: 0.383 ms

Remote clock offset: 0.29 ms

Below is generated by plot.py at 2018-05-30 21:19:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 423.85 Mbit/s

95th percentile per-packet one-way delay: 19.431 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 263.54 Mbit/s

95th percentile per-packet one-way delay: 19.518 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 176.17 Mbit/s

95th percentile per-packet one-way delay: 19.201 ms

Loss rate: 0.04%

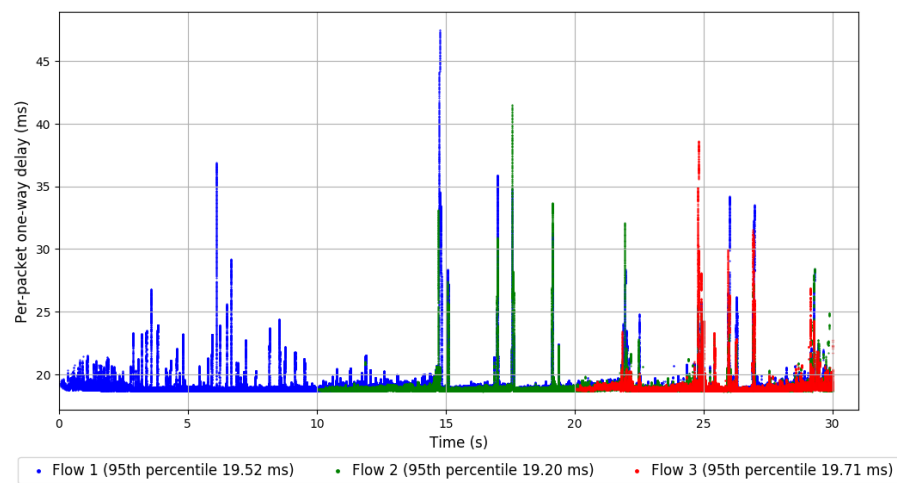
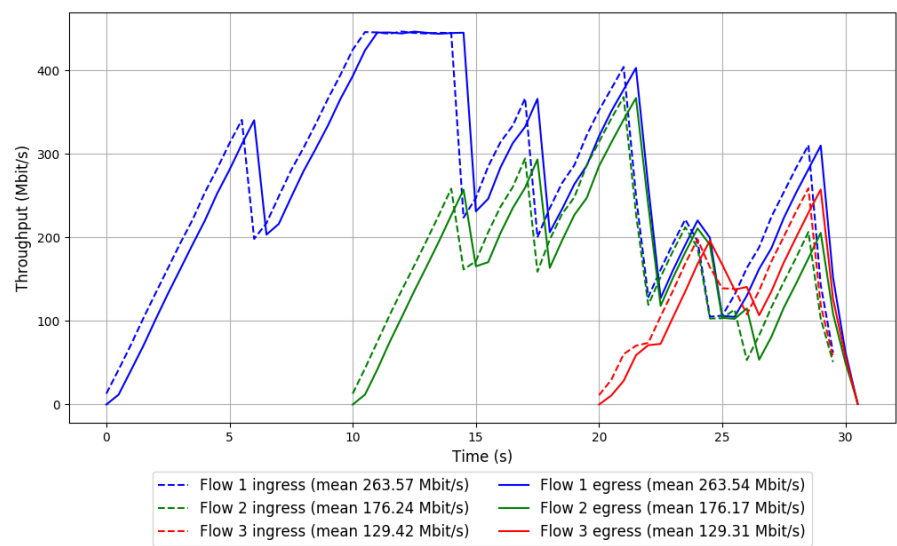
-- Flow 3:

Average throughput: 129.31 Mbit/s

95th percentile per-packet one-way delay: 19.709 ms

Loss rate: 0.08%

Run 4: Report of LEDBAT — Data Link

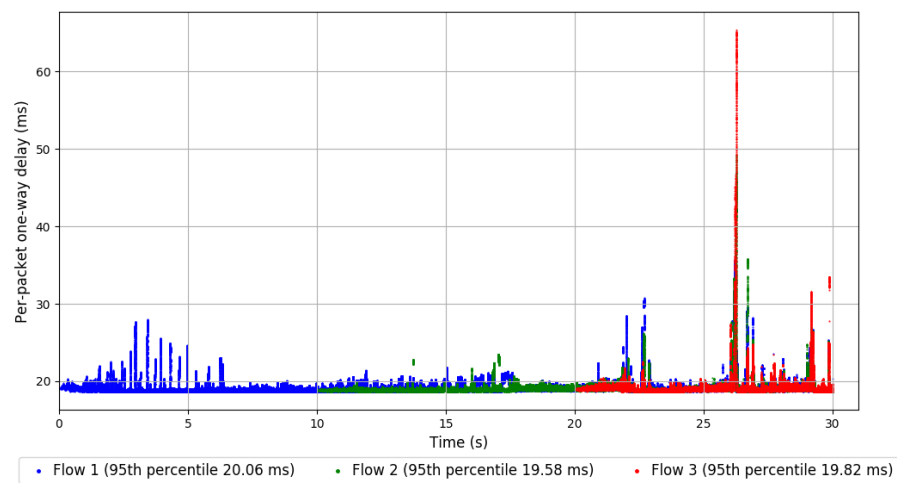
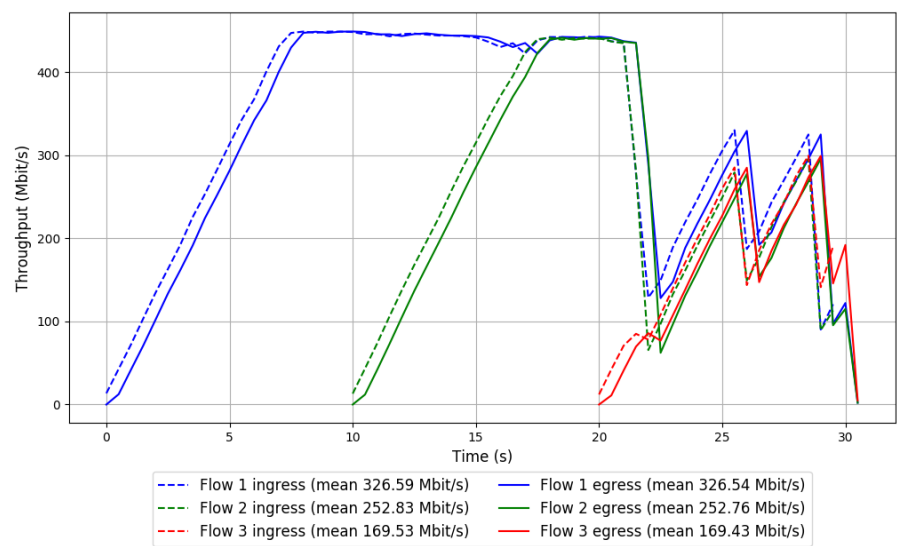


Run 5: Statistics of LEDBAT

Start at: 2018-05-30 17:37:59
End at: 2018-05-30 17:38:29
Local clock offset: -0.049 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-05-30 21:21:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 551.21 Mbit/s
95th percentile per-packet one-way delay: 19.889 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 326.54 Mbit/s
95th percentile per-packet one-way delay: 20.060 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 252.76 Mbit/s
95th percentile per-packet one-way delay: 19.578 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 169.43 Mbit/s
95th percentile per-packet one-way delay: 19.816 ms
Loss rate: 0.05%

Run 5: Report of LEDBAT — Data Link

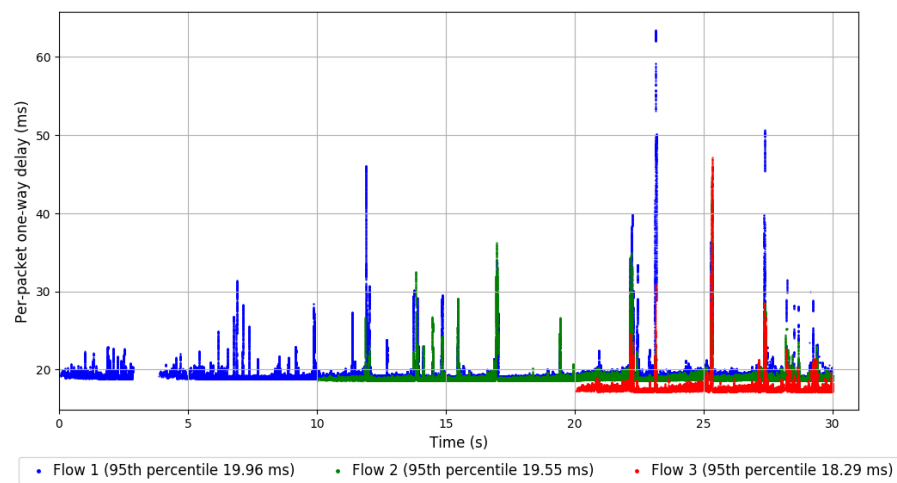
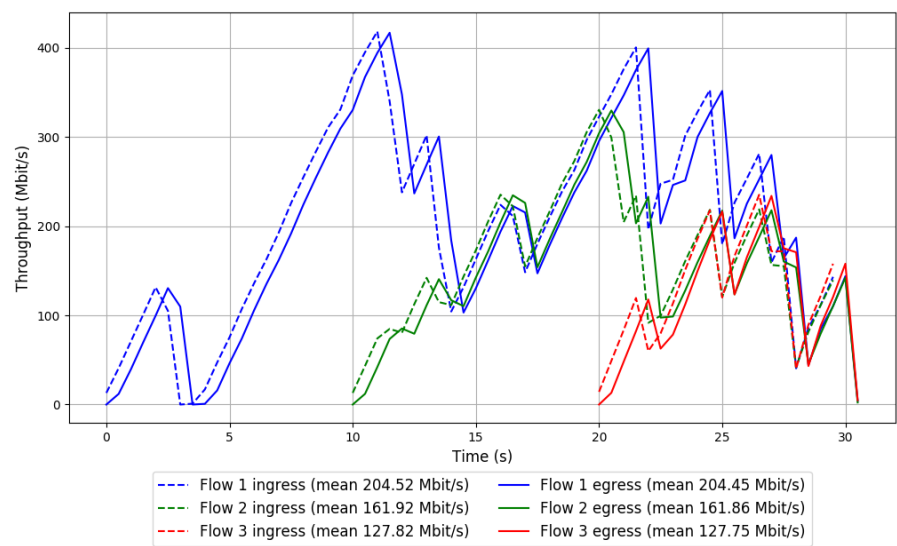


Run 6: Statistics of LEDBAT

Start at: 2018-05-30 18:03:37
End at: 2018-05-30 18:04:07
Local clock offset: 0.016 ms
Remote clock offset: -0.309 ms

Below is generated by plot.py at 2018-05-30 21:21:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 354.71 Mbit/s
95th percentile per-packet one-way delay: 19.763 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 204.45 Mbit/s
95th percentile per-packet one-way delay: 19.959 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 161.86 Mbit/s
95th percentile per-packet one-way delay: 19.546 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 127.75 Mbit/s
95th percentile per-packet one-way delay: 18.294 ms
Loss rate: 0.06%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-30 18:29:09

End at: 2018-05-30 18:29:39

Local clock offset: 0.192 ms

Remote clock offset: 0.106 ms

Below is generated by plot.py at 2018-05-30 21:21:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 470.29 Mbit/s

95th percentile per-packet one-way delay: 19.388 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 288.96 Mbit/s

95th percentile per-packet one-way delay: 19.095 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 196.94 Mbit/s

95th percentile per-packet one-way delay: 19.715 ms

Loss rate: 0.02%

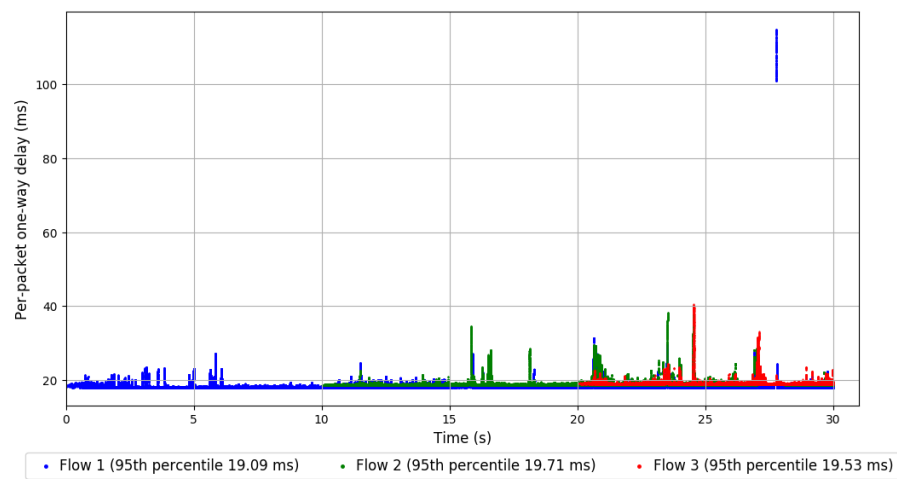
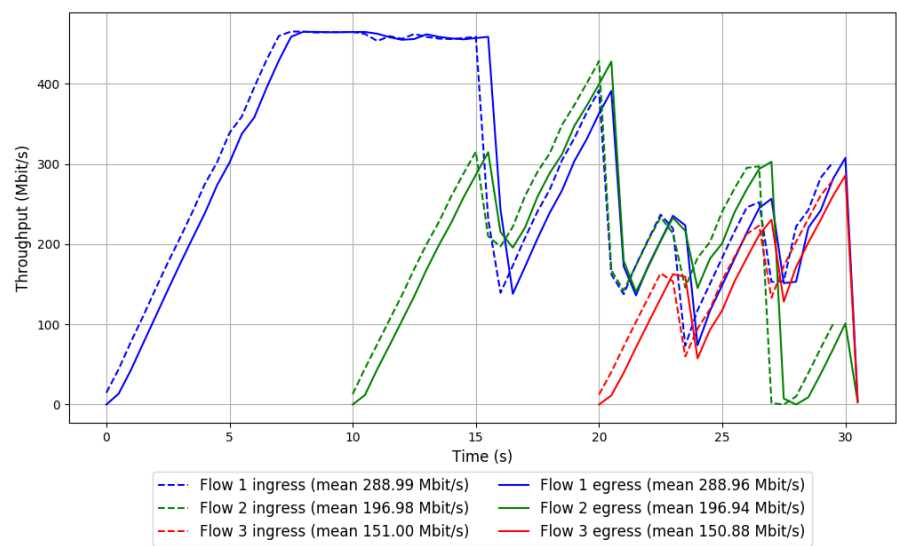
-- Flow 3:

Average throughput: 150.88 Mbit/s

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

Loss rate: 0.08%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-30 18:54:46

End at: 2018-05-30 18:55:16

Local clock offset: 0.105 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-05-30 21:21:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 477.68 Mbit/s

95th percentile per-packet one-way delay: 19.675 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 261.59 Mbit/s

95th percentile per-packet one-way delay: 19.713 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 232.05 Mbit/s

95th percentile per-packet one-way delay: 19.619 ms

Loss rate: 0.01%

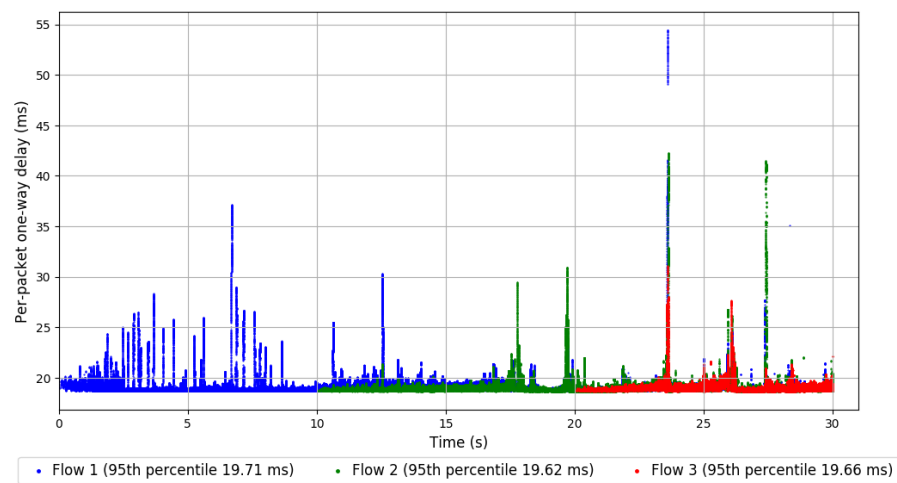
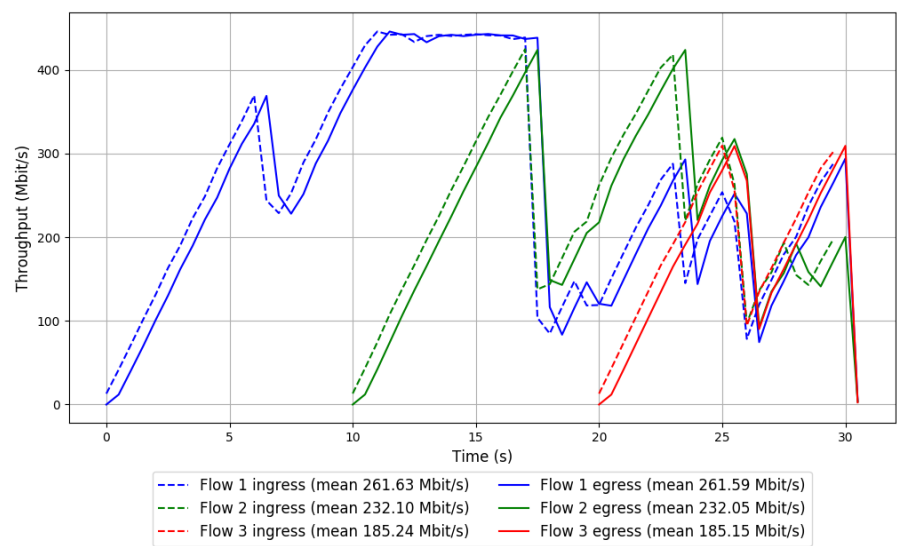
-- Flow 3:

Average throughput: 185.15 Mbit/s

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

Loss rate: 0.05%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-30 19:20:17

End at: 2018-05-30 19:20:47

Local clock offset: -0.766 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-05-30 21:23:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 456.63 Mbit/s

95th percentile per-packet one-way delay: 19.541 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 298.49 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 163.34 Mbit/s

95th percentile per-packet one-way delay: 18.694 ms

Loss rate: 0.06%

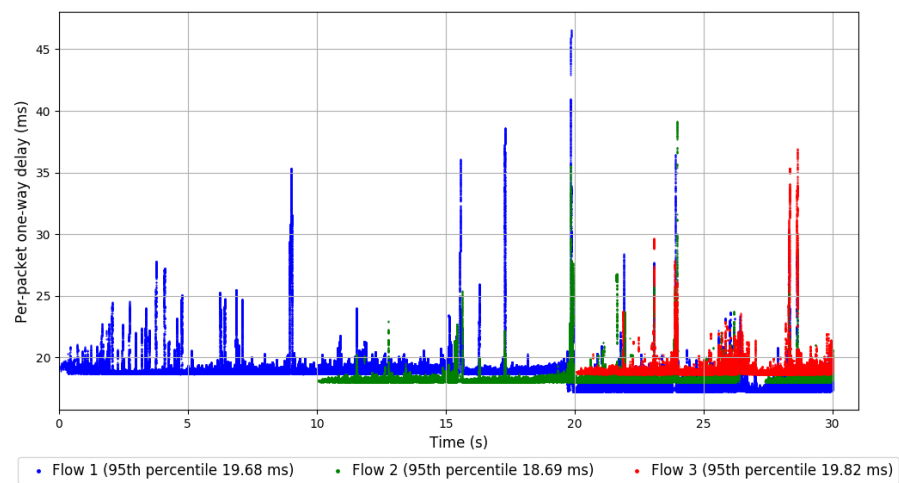
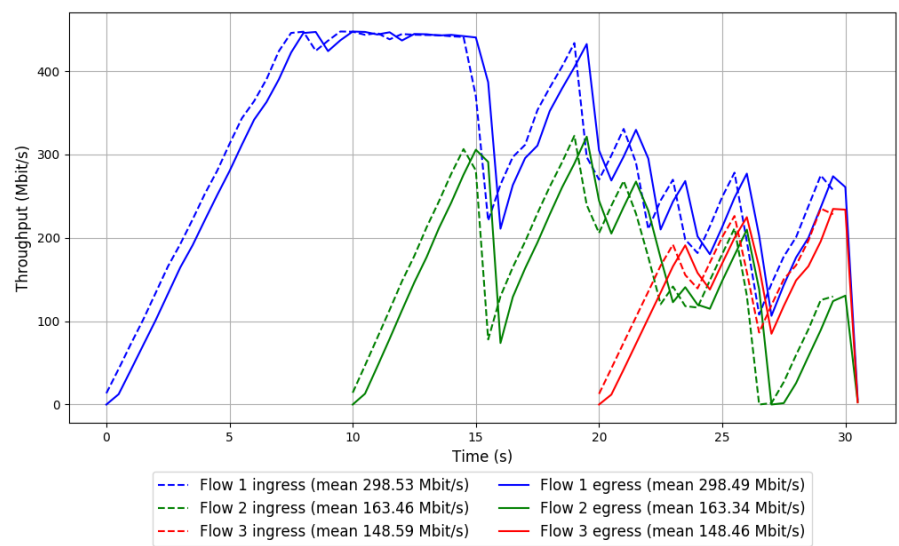
-- Flow 3:

Average throughput: 148.46 Mbit/s

95th percentile per-packet one-way delay: 19.815 ms

Loss rate: 0.08%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-30 19:45:55

End at: 2018-05-30 19:46:25

Local clock offset: -1.407 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-05-30 21:23:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 433.86 Mbit/s

95th percentile per-packet one-way delay: 19.632 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 257.78 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 196.92 Mbit/s

95th percentile per-packet one-way delay: 19.742 ms

Loss rate: 0.06%

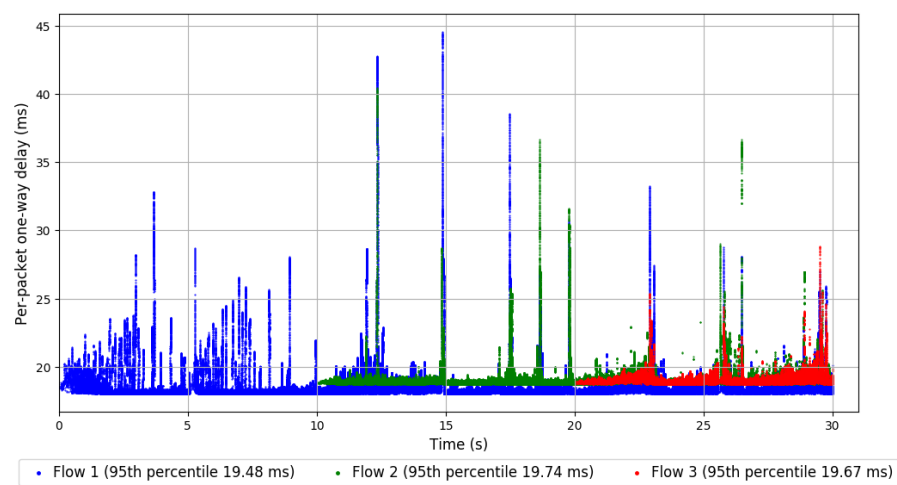
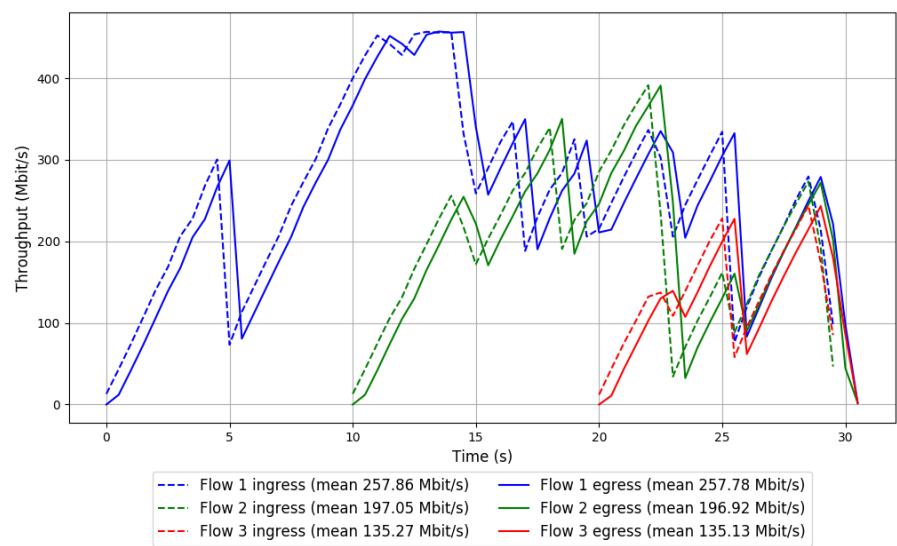
-- Flow 3:

Average throughput: 135.13 Mbit/s

95th percentile per-packet one-way delay: 19.667 ms

Loss rate: 0.10%

Run 10: Report of LEDBAT — Data Link

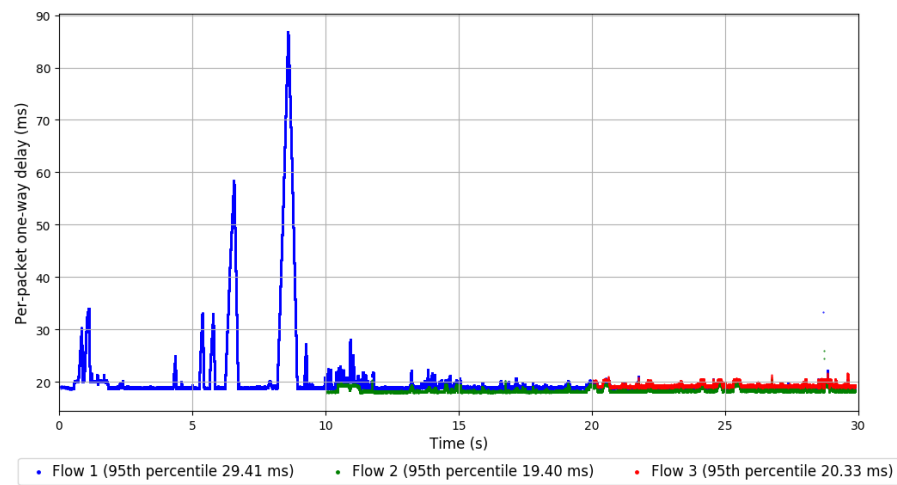
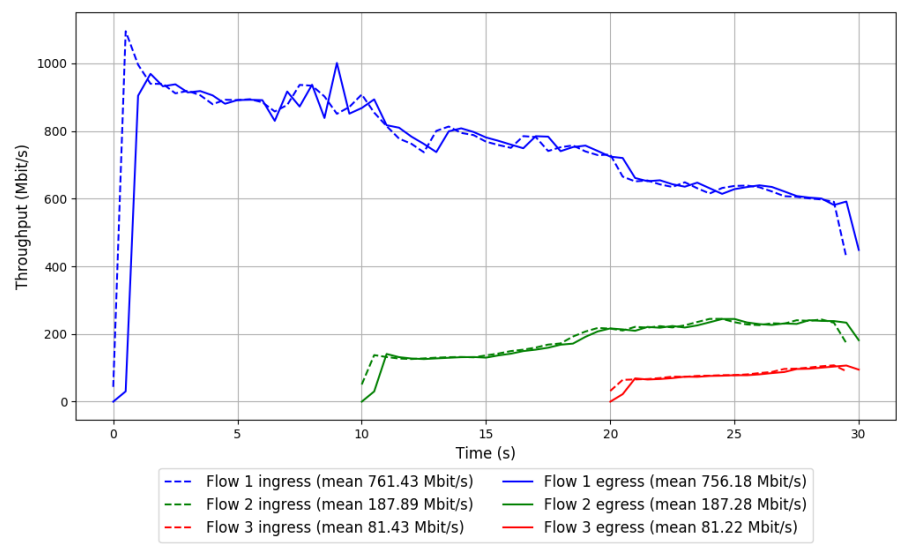


Run 1: Statistics of PCC-Allegro

Start at: 2018-05-30 15:47:25
End at: 2018-05-30 15:47:55
Local clock offset: 0.107 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-05-30 21:30:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 907.52 Mbit/s
95th percentile per-packet one-way delay: 26.539 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 756.18 Mbit/s
95th percentile per-packet one-way delay: 29.415 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 187.28 Mbit/s
95th percentile per-packet one-way delay: 19.402 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 81.22 Mbit/s
95th percentile per-packet one-way delay: 20.328 ms
Loss rate: 0.28%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-30 16:12:41

End at: 2018-05-30 16:13:11

Local clock offset: 0.078 ms

Remote clock offset: -0.43 ms

Below is generated by plot.py at 2018-05-30 21:30:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 849.66 Mbit/s

95th percentile per-packet one-way delay: 19.619 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 704.22 Mbit/s

95th percentile per-packet one-way delay: 19.670 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 182.80 Mbit/s

95th percentile per-packet one-way delay: 18.700 ms

Loss rate: 0.29%

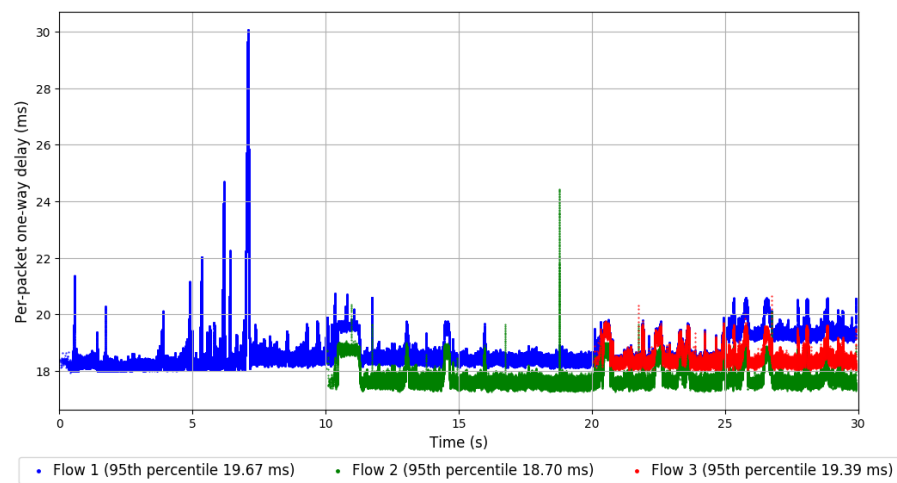
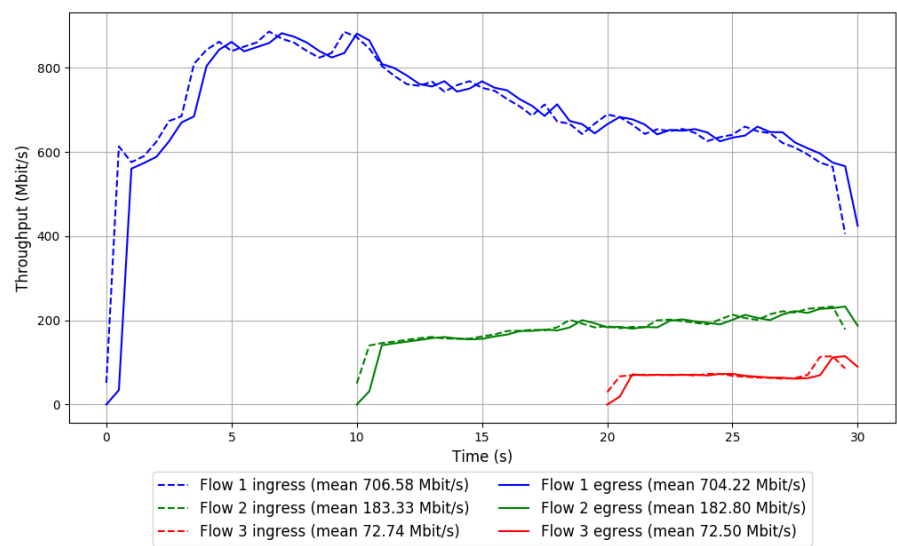
-- Flow 3:

Average throughput: 72.50 Mbit/s

95th percentile per-packet one-way delay: 19.395 ms

Loss rate: 0.32%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-30 16:38:17

End at: 2018-05-30 16:38:47

Local clock offset: 0.093 ms

Remote clock offset: 0.383 ms

Below is generated by plot.py at 2018-05-30 21:30:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 919.25 Mbit/s

95th percentile per-packet one-way delay: 22.858 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 784.85 Mbit/s

95th percentile per-packet one-way delay: 23.875 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 128.87 Mbit/s

95th percentile per-packet one-way delay: 20.338 ms

Loss rate: 0.63%

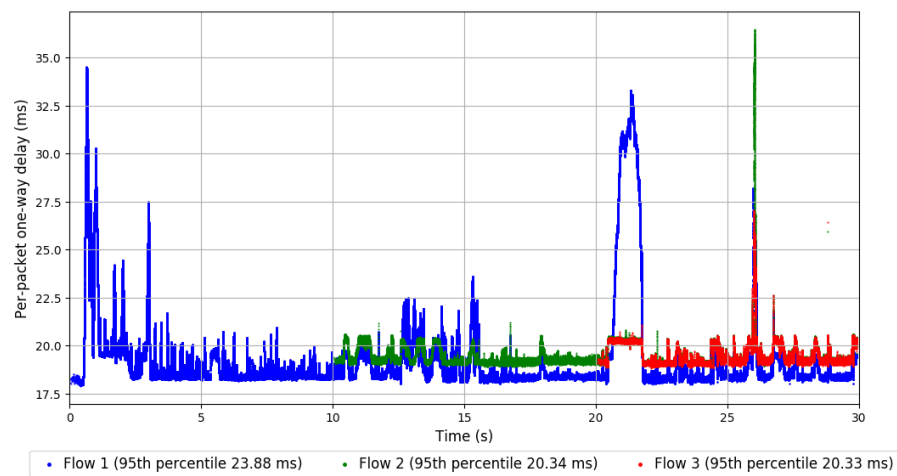
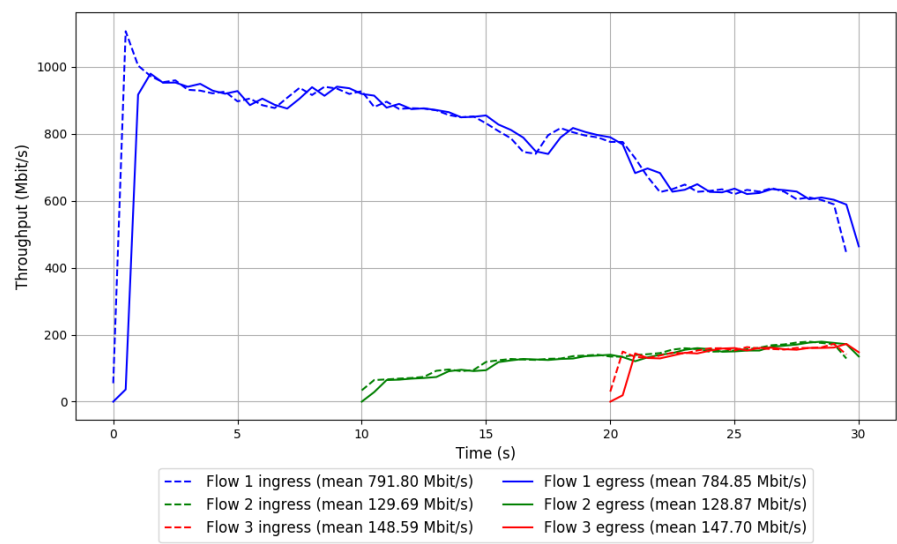
-- Flow 3:

Average throughput: 147.70 Mbit/s

95th percentile per-packet one-way delay: 20.329 ms

Loss rate: 0.59%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-30 17:04:13

End at: 2018-05-30 17:04:43

Local clock offset: 0.336 ms

Remote clock offset: 0.343 ms

Below is generated by plot.py at 2018-05-30 21:31:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 893.10 Mbit/s

95th percentile per-packet one-way delay: 20.239 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 733.47 Mbit/s

95th percentile per-packet one-way delay: 20.229 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 220.35 Mbit/s

95th percentile per-packet one-way delay: 20.259 ms

Loss rate: 0.76%

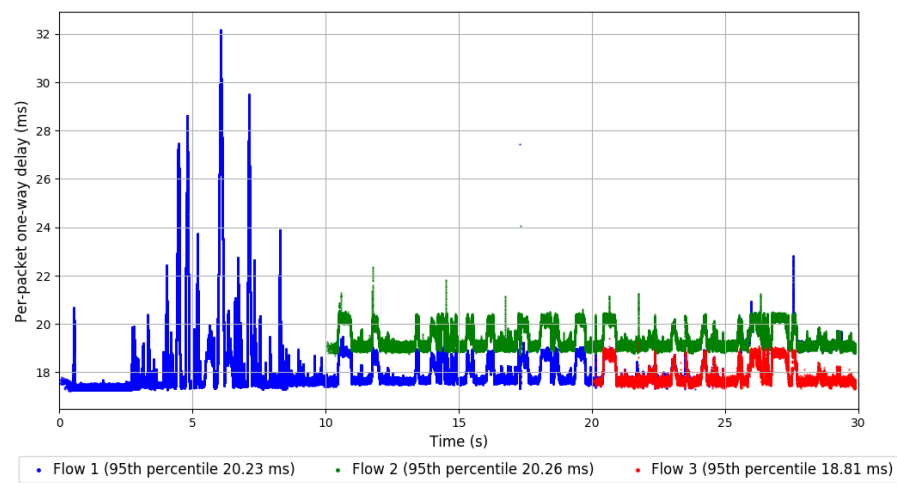
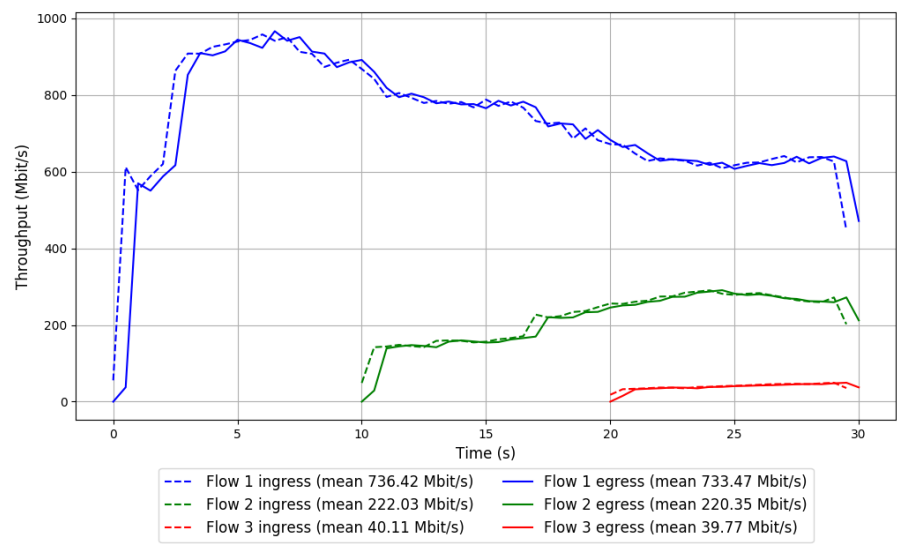
-- Flow 3:

Average throughput: 39.77 Mbit/s

95th percentile per-packet one-way delay: 18.814 ms

Loss rate: 0.84%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-30 17:29:43

End at: 2018-05-30 17:30:13

Local clock offset: 0.087 ms

Remote clock offset: 0.267 ms

Below is generated by plot.py at 2018-05-30 21:31:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 798.00 Mbit/s

95th percentile per-packet one-way delay: 20.304 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 682.73 Mbit/s

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

Loss rate: 0.25%

-- Flow 2:

Average throughput: 136.55 Mbit/s

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

Loss rate: 0.18%

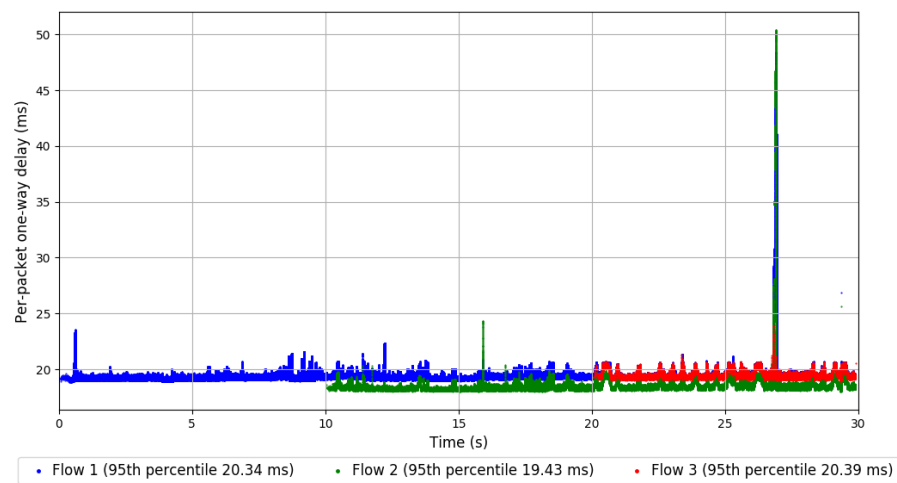
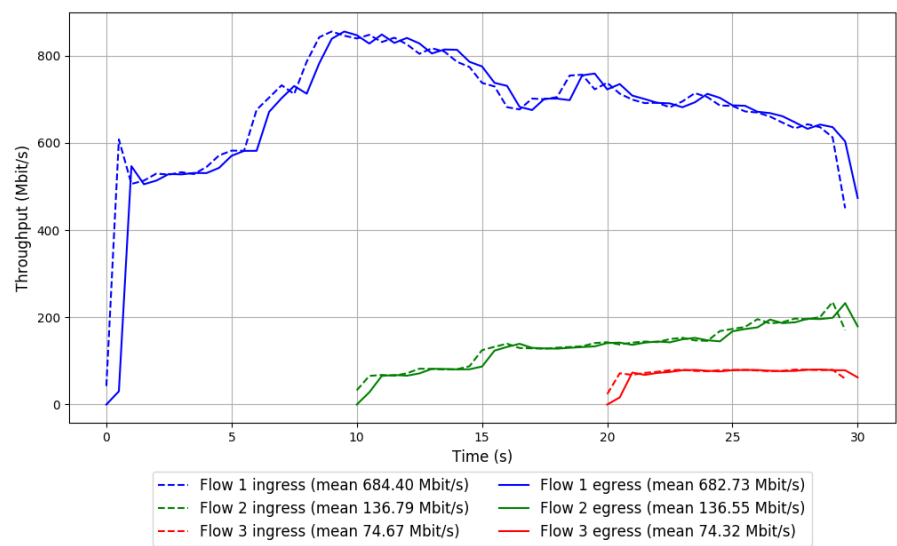
-- Flow 3:

Average throughput: 74.32 Mbit/s

95th percentile per-packet one-way delay: 20.389 ms

Loss rate: 0.46%

Run 5: Report of PCC-Allegro — Data Link

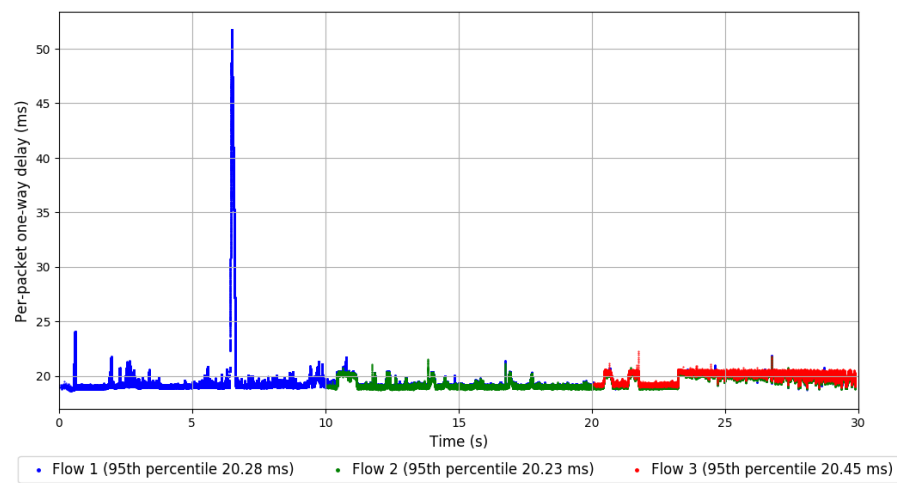
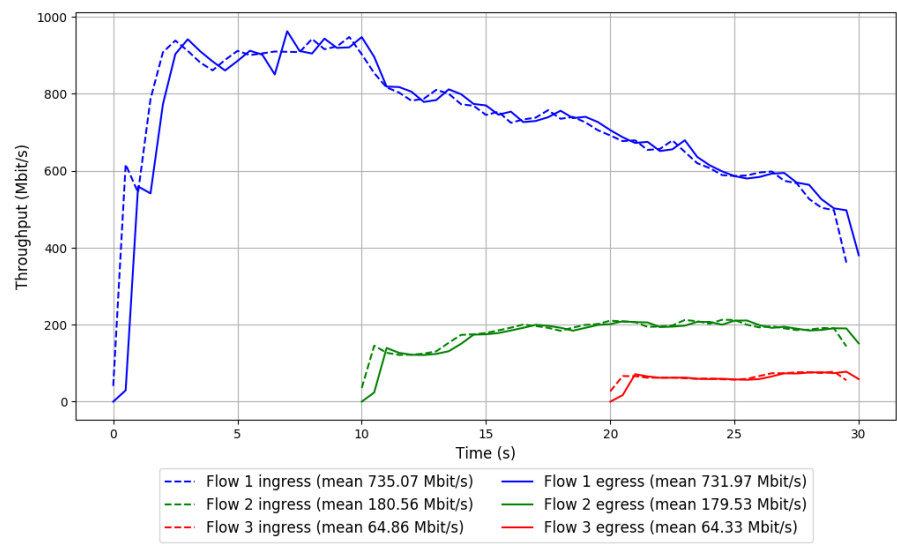


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-30 17:55:17
End at: 2018-05-30 17:55:47
Local clock offset: -0.18 ms
Remote clock offset: -0.362 ms

Below is generated by plot.py at 2018-05-30 21:32:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 872.53 Mbit/s
95th percentile per-packet one-way delay: 20.280 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 731.97 Mbit/s
95th percentile per-packet one-way delay: 20.277 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 179.53 Mbit/s
95th percentile per-packet one-way delay: 20.233 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 64.33 Mbit/s
95th percentile per-packet one-way delay: 20.448 ms
Loss rate: 0.81%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-30 18:20:50

End at: 2018-05-30 18:21:20

Local clock offset: -0.048 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-05-30 21:34:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 885.25 Mbit/s

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

Loss rate: 0.52%

-- Flow 1:

Average throughput: 787.49 Mbit/s

95th percentile per-packet one-way delay: 20.444 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 80.93 Mbit/s

95th percentile per-packet one-way delay: 20.333 ms

Loss rate: 0.48%

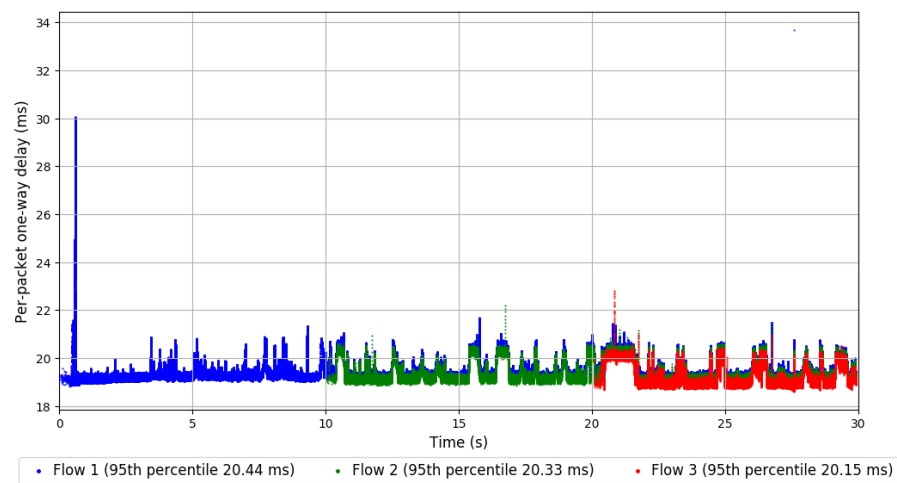
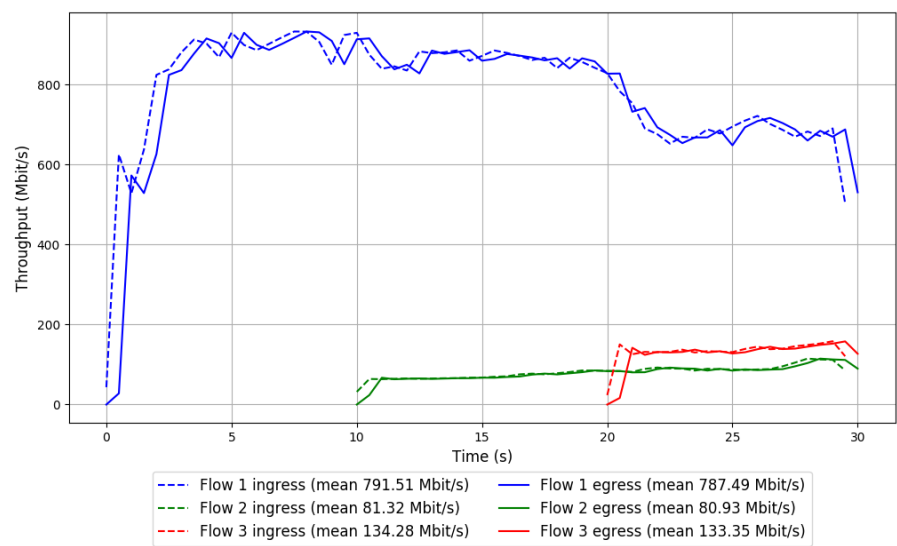
-- Flow 3:

Average throughput: 133.35 Mbit/s

95th percentile per-packet one-way delay: 20.148 ms

Loss rate: 0.70%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-30 18:46:26

End at: 2018-05-30 18:46:56

Local clock offset: 0.367 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-05-30 21:34:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 871.47 Mbit/s

95th percentile per-packet one-way delay: 19.706 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 679.46 Mbit/s

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

Loss rate: 0.61%

-- Flow 2:

Average throughput: 204.63 Mbit/s

95th percentile per-packet one-way delay: 20.136 ms

Loss rate: 0.46%

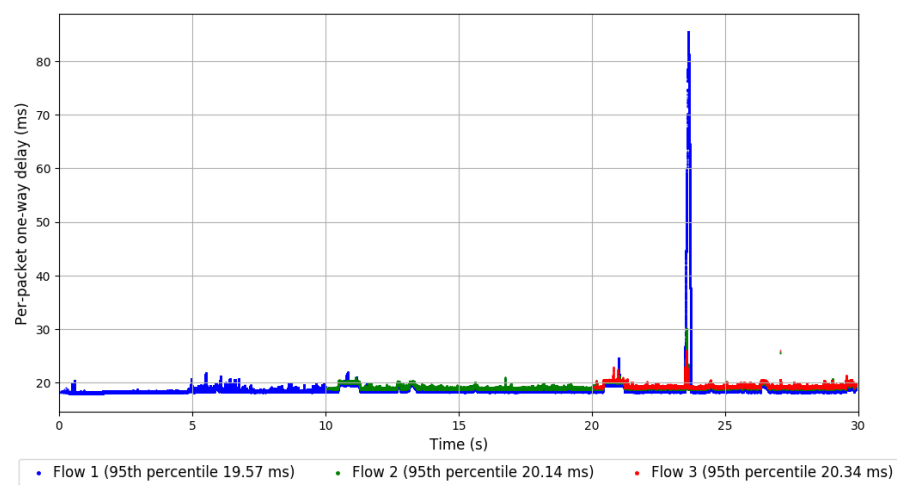
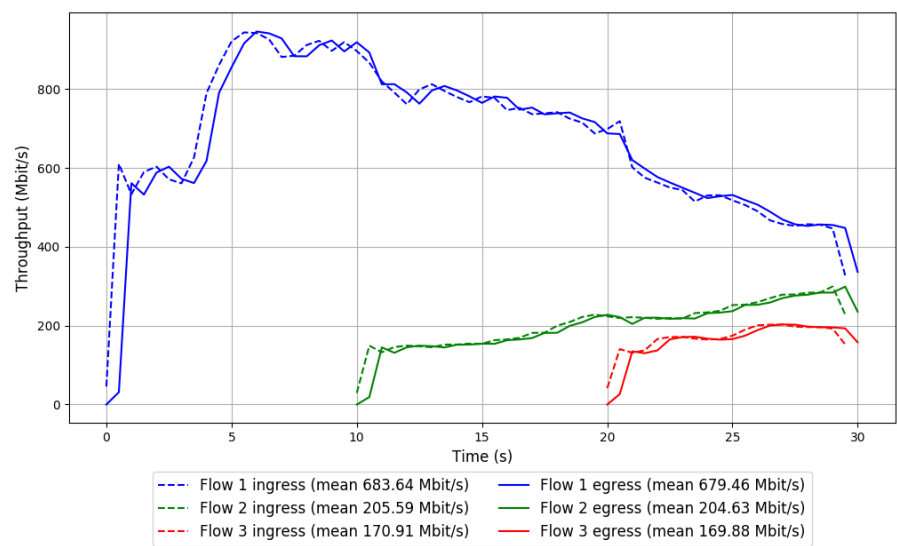
-- Flow 3:

Average throughput: 169.88 Mbit/s

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

Loss rate: 0.60%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-30 19:12:01

End at: 2018-05-30 19:12:31

Local clock offset: -0.572 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-05-30 21:39:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 815.00 Mbit/s

95th percentile per-packet one-way delay: 20.358 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 709.58 Mbit/s

95th percentile per-packet one-way delay: 20.366 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 89.96 Mbit/s

95th percentile per-packet one-way delay: 19.583 ms

Loss rate: 0.77%

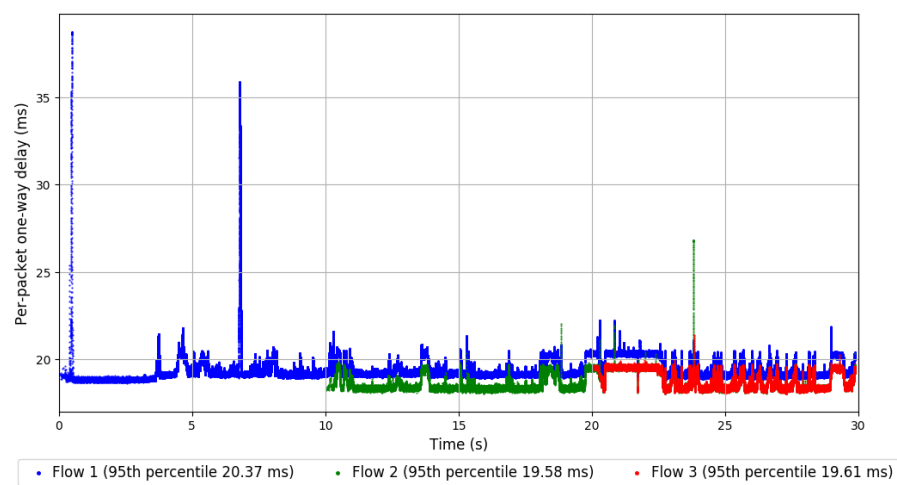
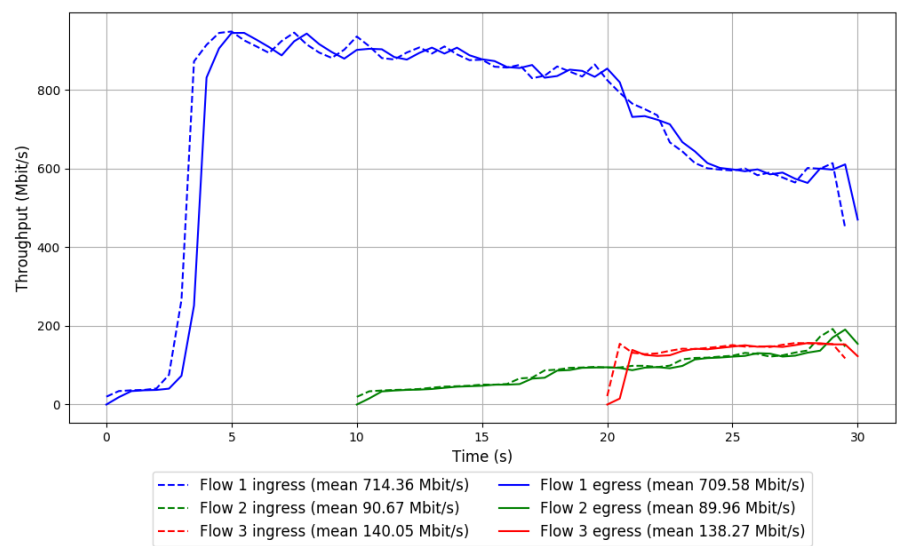
-- Flow 3:

Average throughput: 138.27 Mbit/s

95th percentile per-packet one-way delay: 19.606 ms

Loss rate: 1.28%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-30 19:37:38

End at: 2018-05-30 19:38:08

Local clock offset: -1.099 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-05-30 21:40:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 861.70 Mbit/s

95th percentile per-packet one-way delay: 19.076 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 799.66 Mbit/s

95th percentile per-packet one-way delay: 18.827 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 59.52 Mbit/s

95th percentile per-packet one-way delay: 20.108 ms

Loss rate: 0.25%

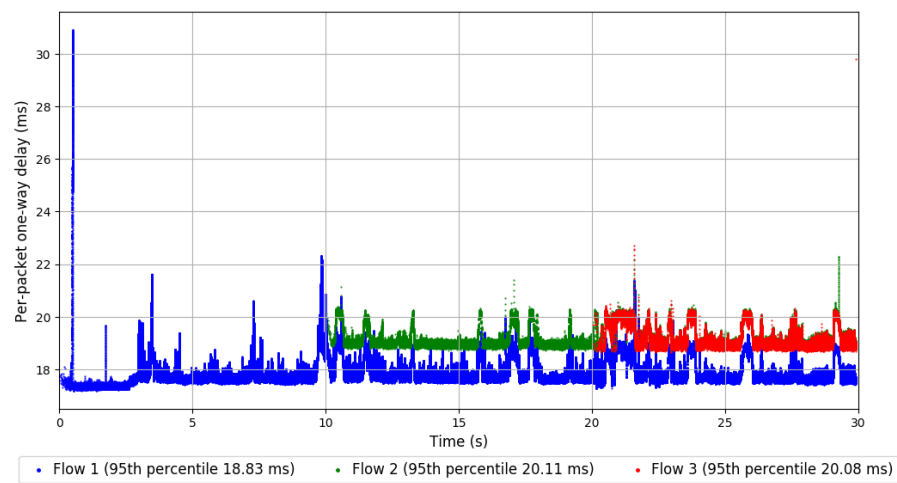
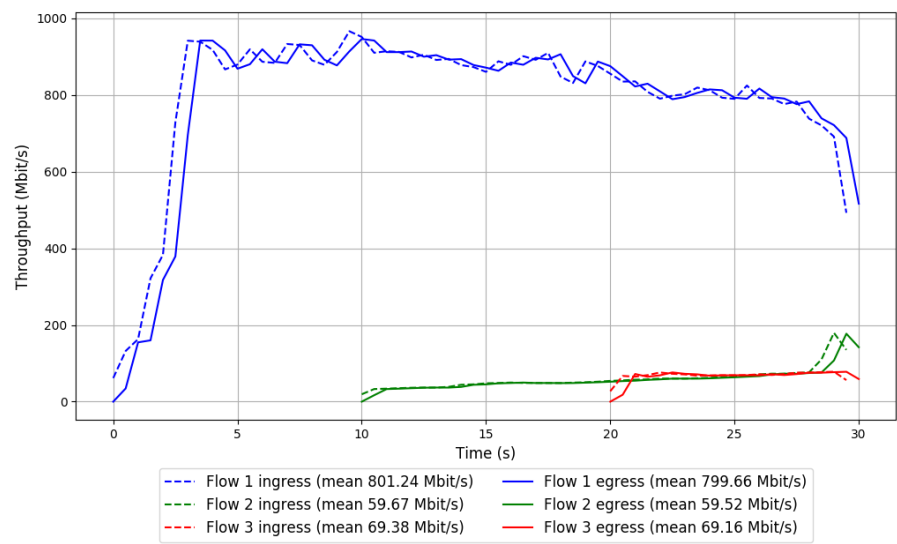
-- Flow 3:

Average throughput: 69.16 Mbit/s

95th percentile per-packet one-way delay: 20.077 ms

Loss rate: 0.23%

Run 10: Report of PCC-Allegro — Data Link

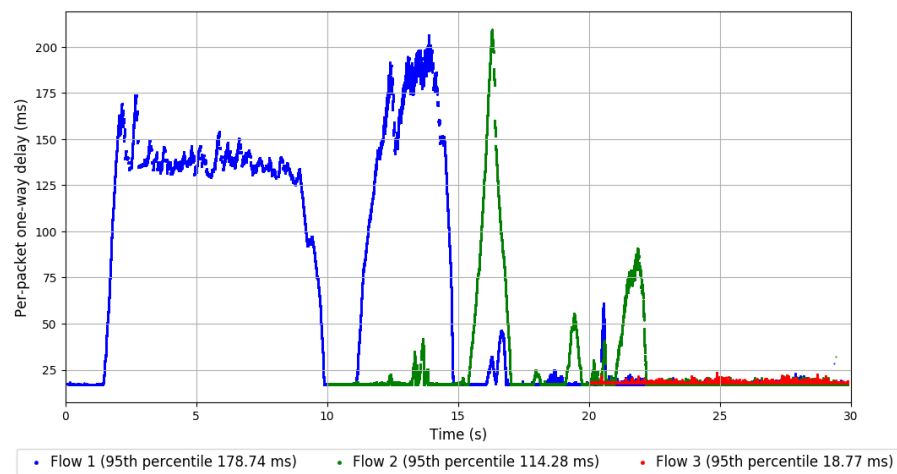
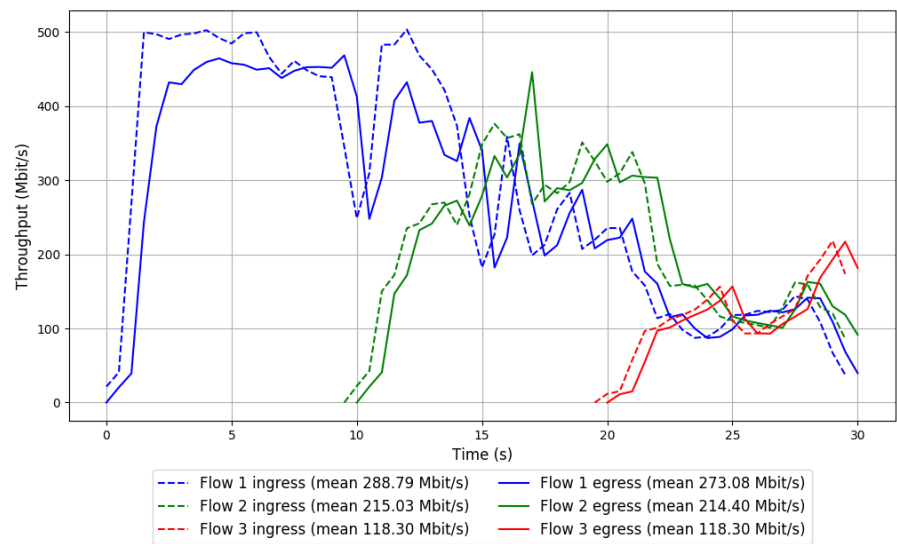


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-30 16:04:48
End at: 2018-05-30 16:05:18
Local clock offset: 0.123 ms
Remote clock offset: -0.554 ms

# Below is generated by plot.py at 2018-05-30 21:41:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 454.87 Mbit/s
95th percentile per-packet one-way delay: 167.428 ms
Loss rate: 3.43%
-- Flow 1:
Average throughput: 273.08 Mbit/s
95th percentile per-packet one-way delay: 178.741 ms
Loss rate: 5.44%
-- Flow 2:
Average throughput: 214.40 Mbit/s
95th percentile per-packet one-way delay: 114.280 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 118.30 Mbit/s
95th percentile per-packet one-way delay: 18.772 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-05-30 16:30:11

End at: 2018-05-30 16:30:41

Local clock offset: 0.167 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2018-05-30 21:41:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 468.36 Mbit/s

95th percentile per-packet one-way delay: 91.946 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 295.99 Mbit/s

95th percentile per-packet one-way delay: 68.982 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 237.91 Mbit/s

95th percentile per-packet one-way delay: 110.863 ms

Loss rate: 0.00%

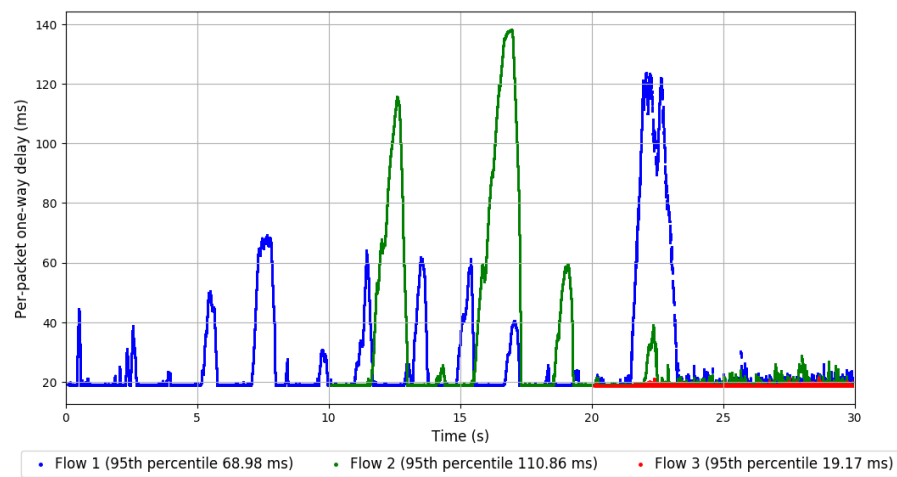
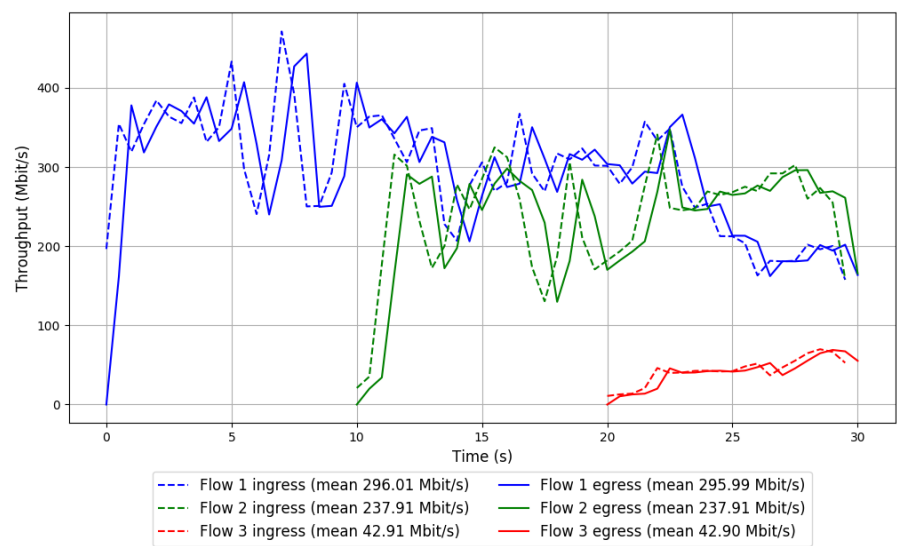
-- Flow 3:

Average throughput: 42.90 Mbit/s

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

Loss rate: 0.01%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-30 16:56:07

End at: 2018-05-30 16:56:37

Local clock offset: 0.258 ms

Remote clock offset: 0.633 ms

Below is generated by plot.py at 2018-05-30 21:43:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 505.94 Mbit/s

95th percentile per-packet one-way delay: 150.847 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 267.39 Mbit/s

95th percentile per-packet one-way delay: 110.641 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 301.03 Mbit/s

95th percentile per-packet one-way delay: 211.248 ms

Loss rate: 1.45%

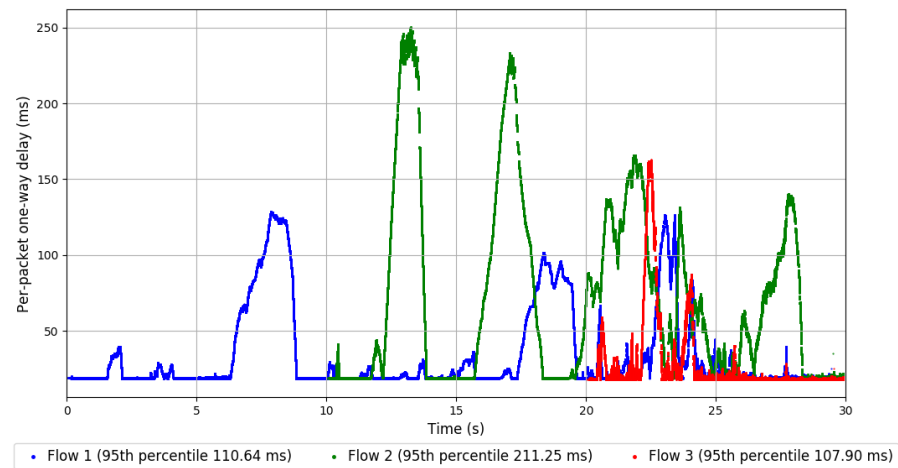
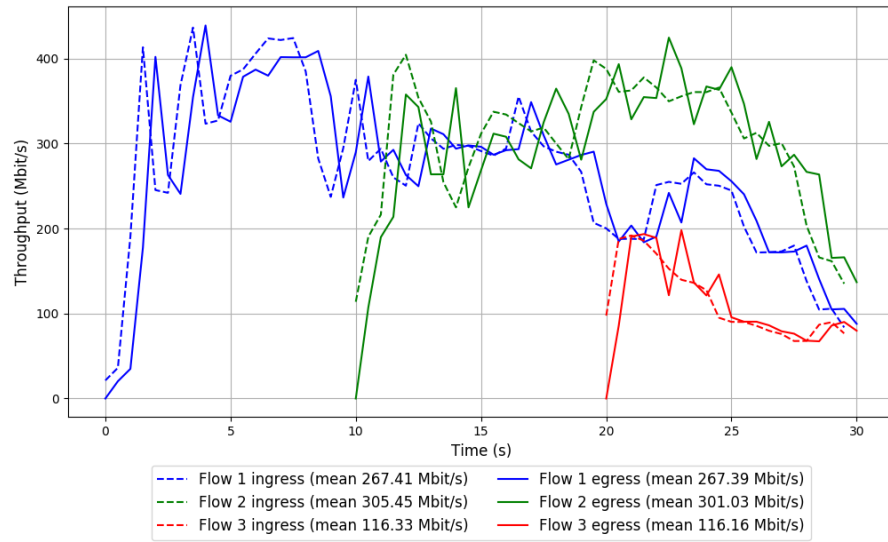
-- Flow 3:

Average throughput: 116.16 Mbit/s

95th percentile per-packet one-way delay: 107.900 ms

Loss rate: 0.14%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-30 17:21:46

End at: 2018-05-30 17:22:16

Local clock offset: 0.4 ms

Remote clock offset: 0.396 ms

Below is generated by plot.py at 2018-05-30 21:43:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 464.00 Mbit/s

95th percentile per-packet one-way delay: 67.764 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 283.20 Mbit/s

95th percentile per-packet one-way delay: 53.076 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 235.13 Mbit/s

95th percentile per-packet one-way delay: 89.398 ms

Loss rate: 0.03%

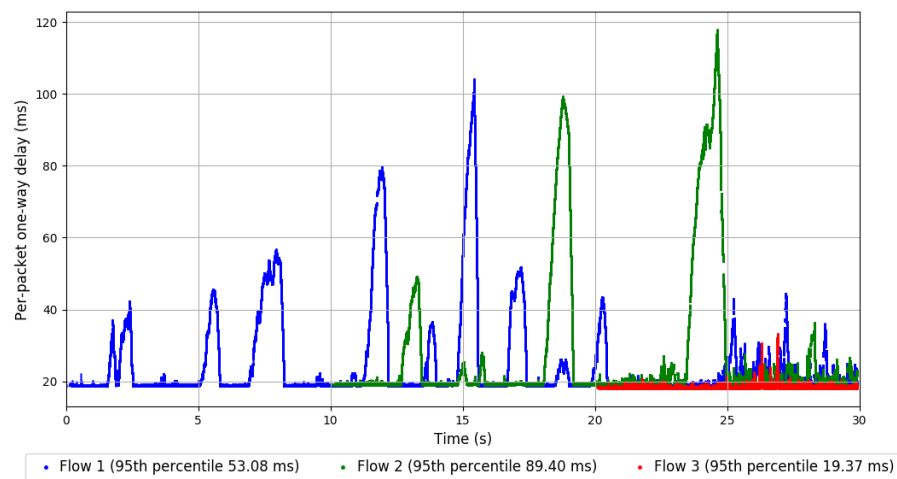
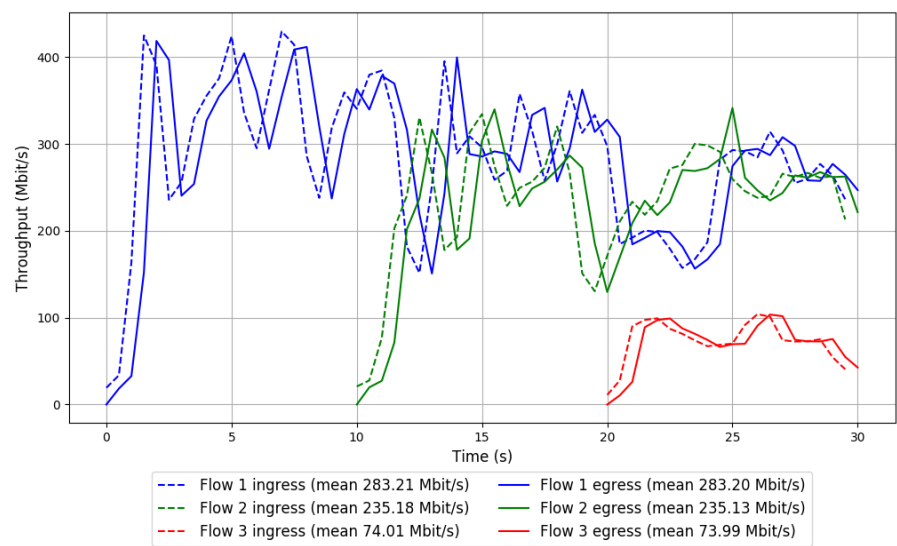
-- Flow 3:

Average throughput: 73.99 Mbit/s

95th percentile per-packet one-way delay: 19.371 ms

Loss rate: 0.02%

Run 4: Report of PCC-Expr — Data Link

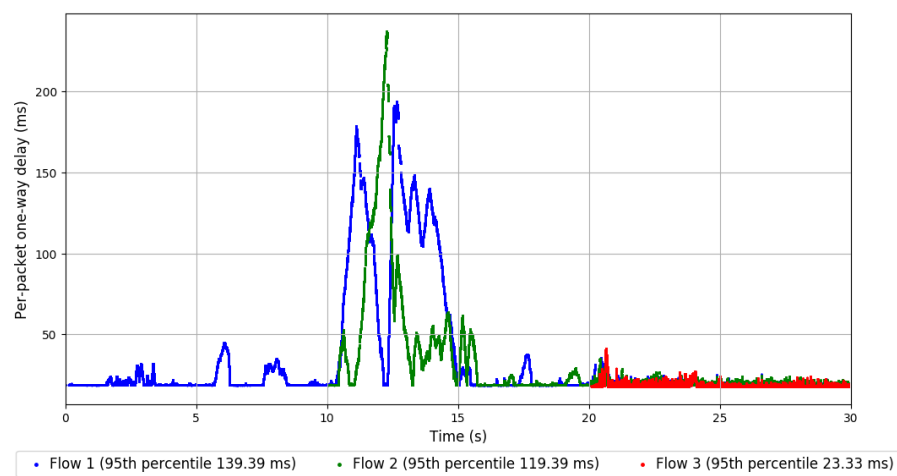
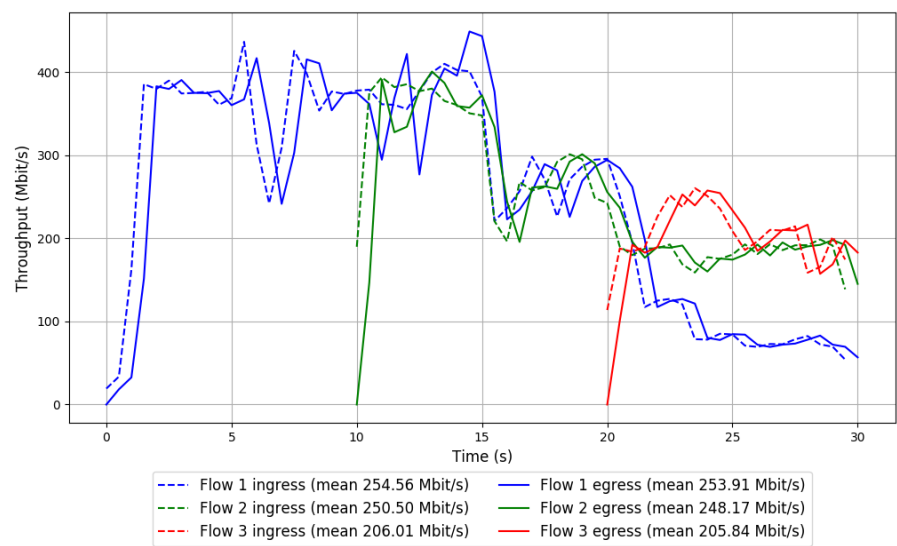


Run 5: Statistics of PCC-Expr

Start at: 2018-05-30 17:47:12
End at: 2018-05-30 17:47:42
Local clock offset: -0.227 ms
Remote clock offset: -0.347 ms

Below is generated by plot.py at 2018-05-30 21:45:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 486.91 Mbit/s
95th percentile per-packet one-way delay: 130.898 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 253.91 Mbit/s
95th percentile per-packet one-way delay: 139.391 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 248.17 Mbit/s
95th percentile per-packet one-way delay: 119.385 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 205.84 Mbit/s
95th percentile per-packet one-way delay: 23.329 ms
Loss rate: 0.08%

Run 5: Report of PCC-Expr — Data Link

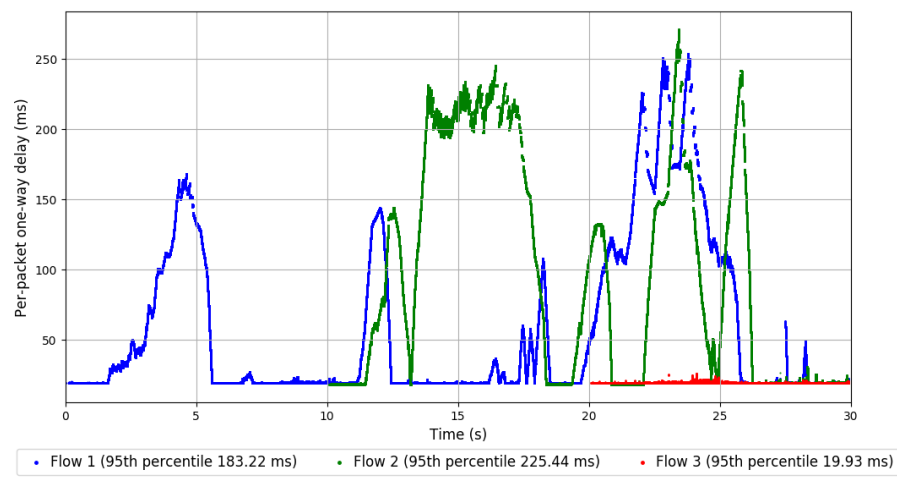
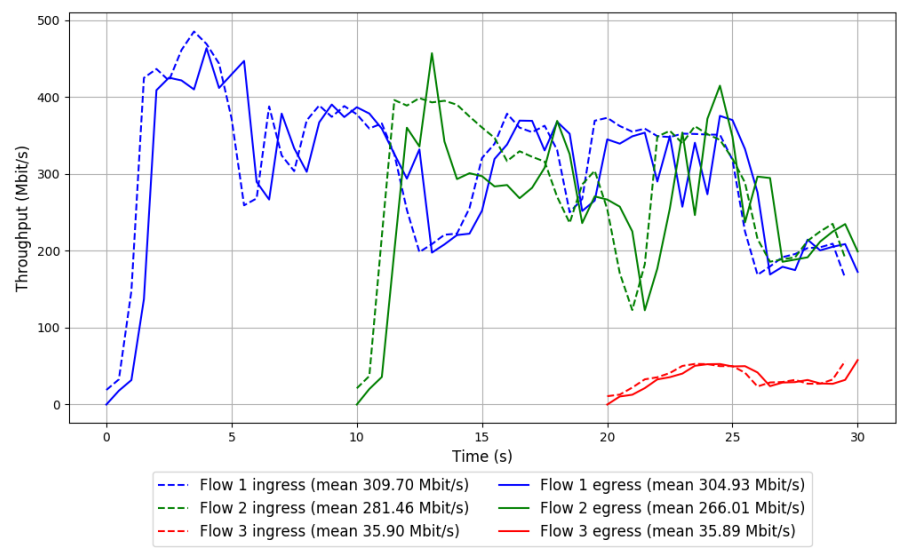


Run 6: Statistics of PCC-Expr

Start at: 2018-05-30 18:12:46
End at: 2018-05-30 18:13:16
Local clock offset: 0.015 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-05-30 21:46:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 493.69 Mbit/s
95th percentile per-packet one-way delay: 216.604 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 304.93 Mbit/s
95th percentile per-packet one-way delay: 183.215 ms
Loss rate: 1.55%
-- Flow 2:
Average throughput: 266.01 Mbit/s
95th percentile per-packet one-way delay: 225.445 ms
Loss rate: 5.49%
-- Flow 3:
Average throughput: 35.89 Mbit/s
95th percentile per-packet one-way delay: 19.931 ms
Loss rate: 0.13%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-30 18:38:27

End at: 2018-05-30 18:38:57

Local clock offset: 0.333 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-05-30 21:51:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 466.39 Mbit/s

95th percentile per-packet one-way delay: 54.725 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 272.58 Mbit/s

95th percentile per-packet one-way delay: 63.439 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 245.03 Mbit/s

95th percentile per-packet one-way delay: 33.156 ms

Loss rate: 0.00%

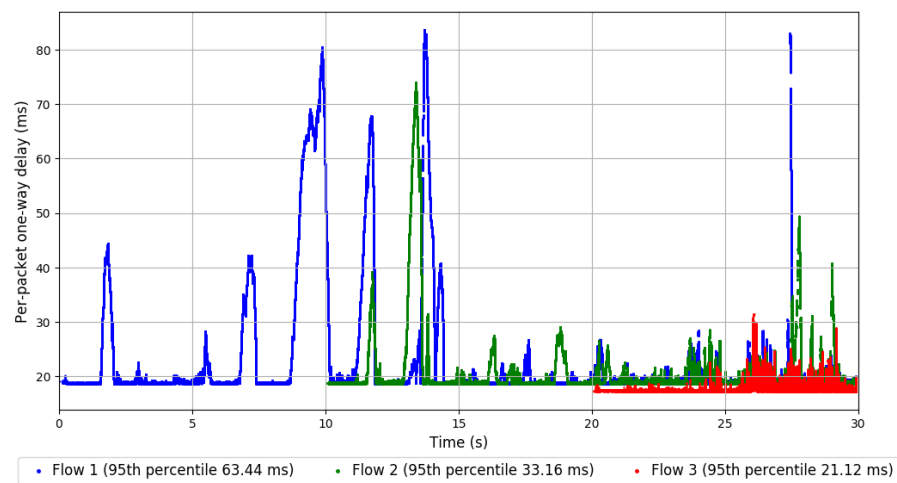
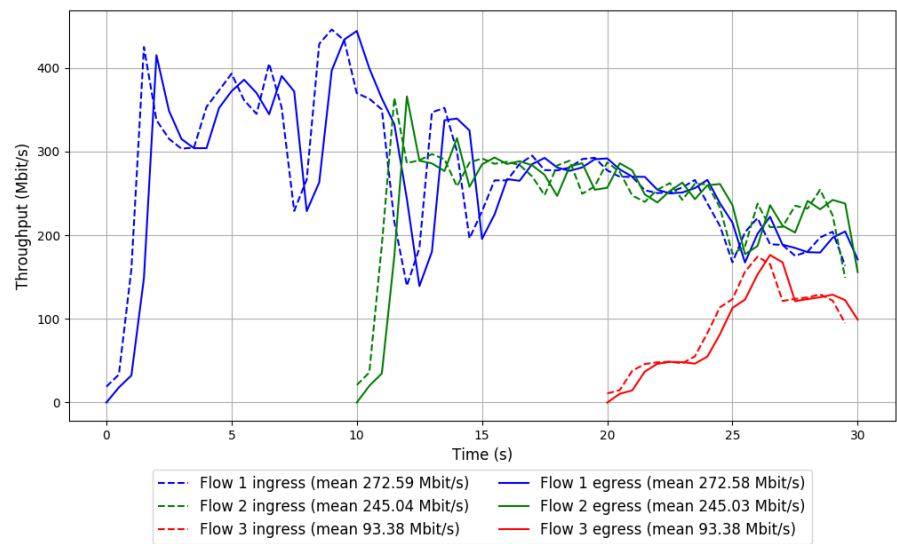
-- Flow 3:

Average throughput: 93.38 Mbit/s

95th percentile per-packet one-way delay: 21.120 ms

Loss rate: 0.00%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-30 19:03:58

End at: 2018-05-30 19:04:28

Local clock offset: -0.221 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-05-30 21:52:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 476.45 Mbit/s

95th percentile per-packet one-way delay: 202.359 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 273.36 Mbit/s

95th percentile per-packet one-way delay: 185.645 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 267.54 Mbit/s

95th percentile per-packet one-way delay: 207.025 ms

Loss rate: 4.68%

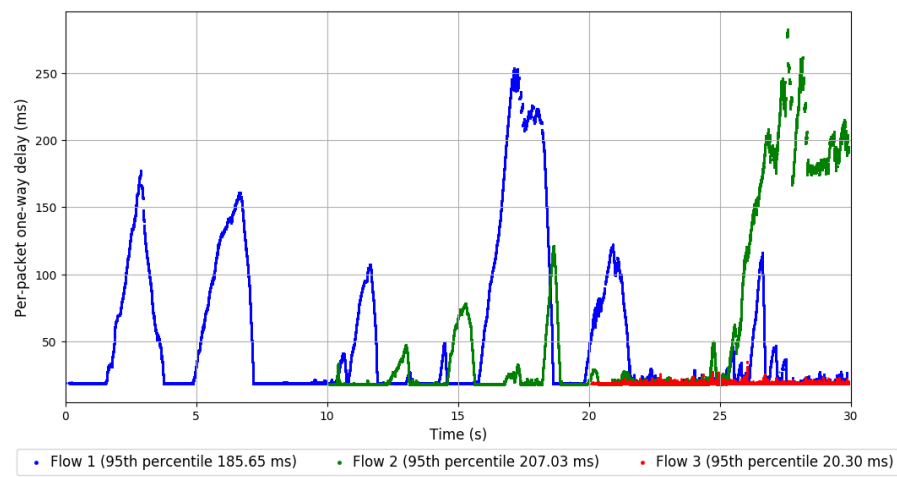
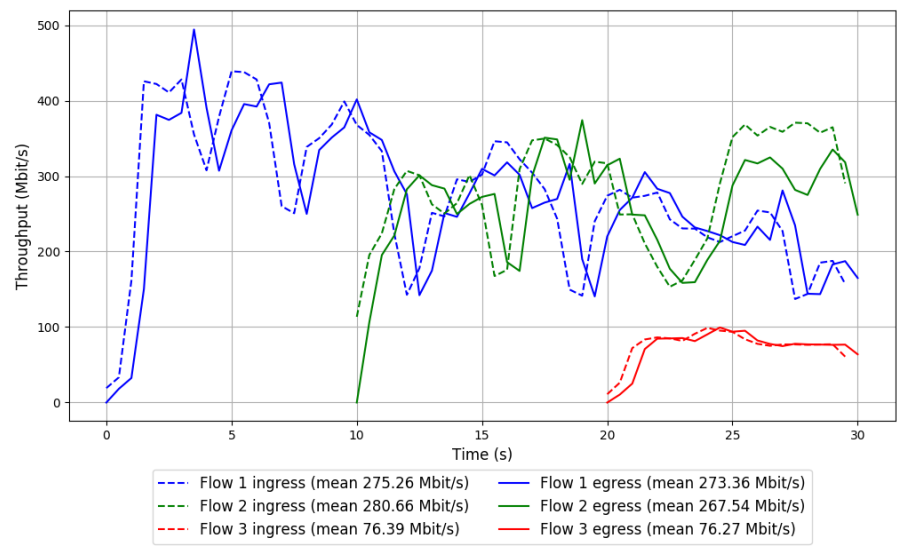
-- Flow 3:

Average throughput: 76.27 Mbit/s

95th percentile per-packet one-way delay: 20.304 ms

Loss rate: 0.15%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-30 19:29:34

End at: 2018-05-30 19:30:04

Local clock offset: -0.921 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 507.04 Mbit/s

95th percentile per-packet one-way delay: 202.796 ms

Loss rate: 4.71%

-- Flow 1:

Average throughput: 315.37 Mbit/s

95th percentile per-packet one-way delay: 188.336 ms

Loss rate: 5.13%

-- Flow 2:

Average throughput: 247.80 Mbit/s

95th percentile per-packet one-way delay: 220.596 ms

Loss rate: 4.60%

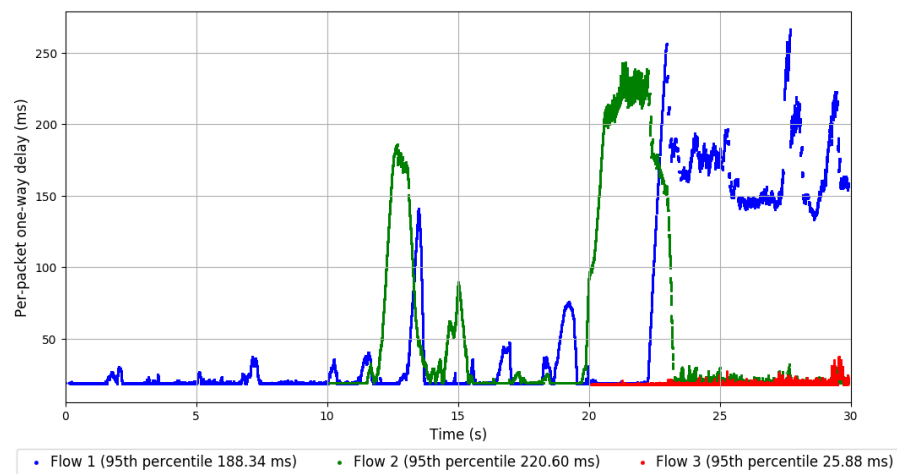
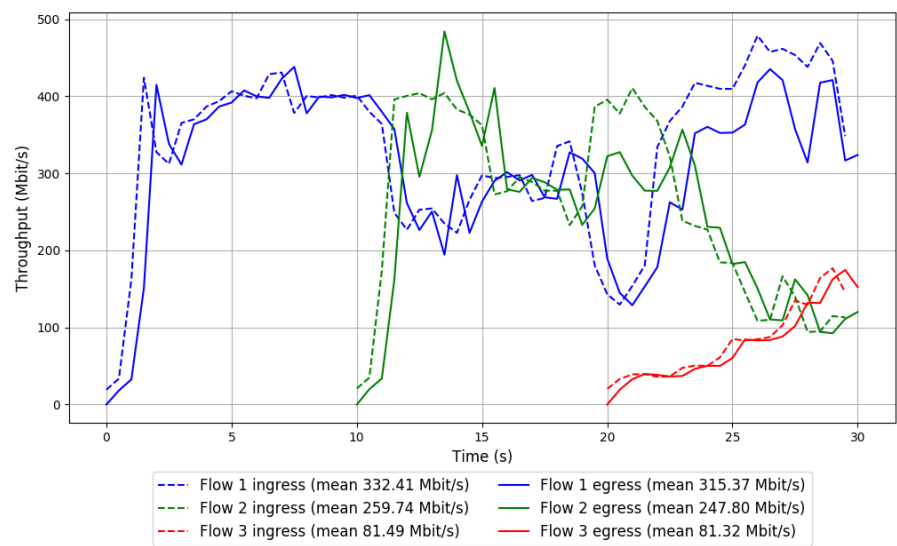
-- Flow 3:

Average throughput: 81.32 Mbit/s

95th percentile per-packet one-way delay: 25.882 ms

Loss rate: 0.20%

Run 9: Report of PCC-Expr — Data Link

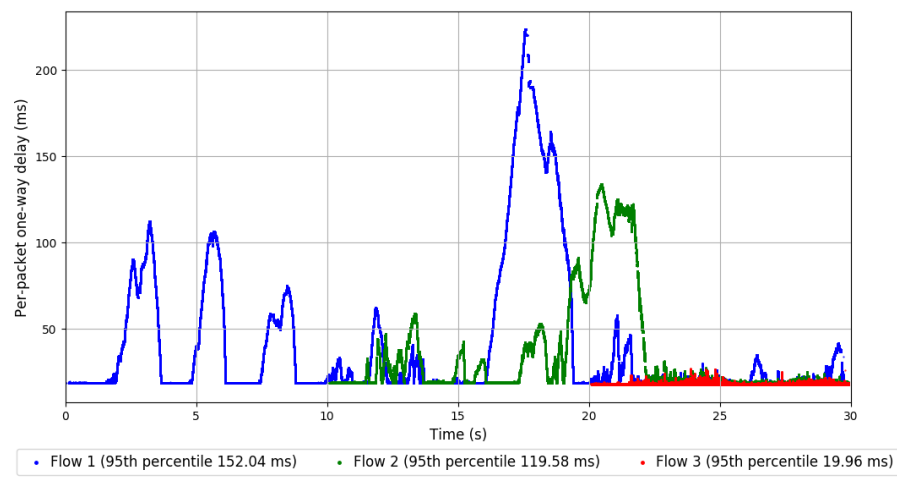
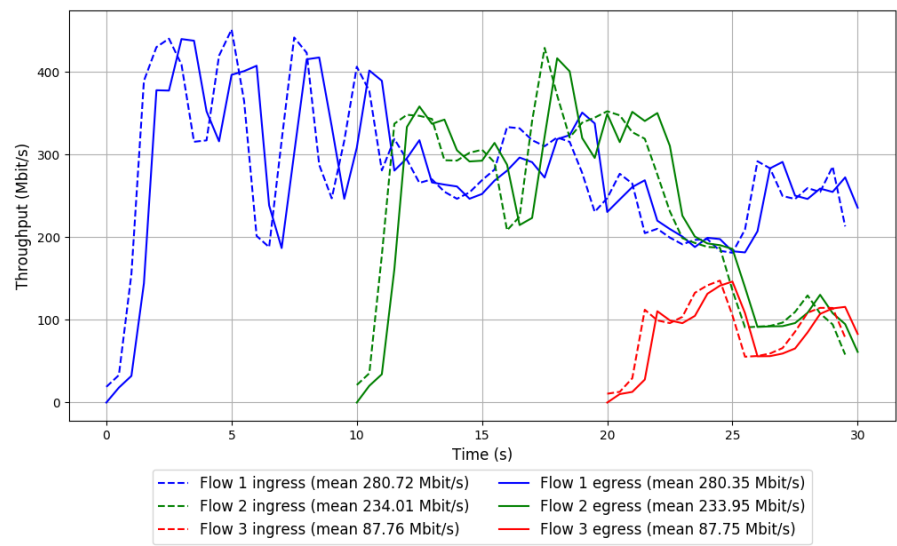


Run 10: Statistics of PCC-Expr

Start at: 2018-05-30 19:55:05
End at: 2018-05-30 19:55:35
Local clock offset: -1.338 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-05-30 21:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 464.96 Mbit/s
95th percentile per-packet one-way delay: 126.945 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 280.35 Mbit/s
95th percentile per-packet one-way delay: 152.036 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 233.95 Mbit/s
95th percentile per-packet one-way delay: 119.583 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 87.75 Mbit/s
95th percentile per-packet one-way delay: 19.959 ms
Loss rate: 0.02%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-30 16:03:28

End at: 2018-05-30 16:03:58

Local clock offset: 0.102 ms

Remote clock offset: -0.51 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.70 Mbit/s

95th percentile per-packet one-way delay: 18.102 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 17.976 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.90 Mbit/s

95th percentile per-packet one-way delay: 18.123 ms

Loss rate: 0.00%

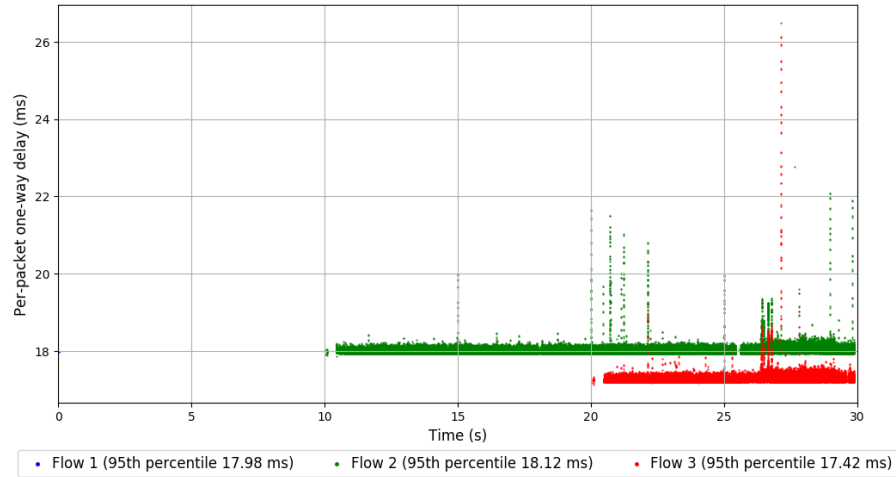
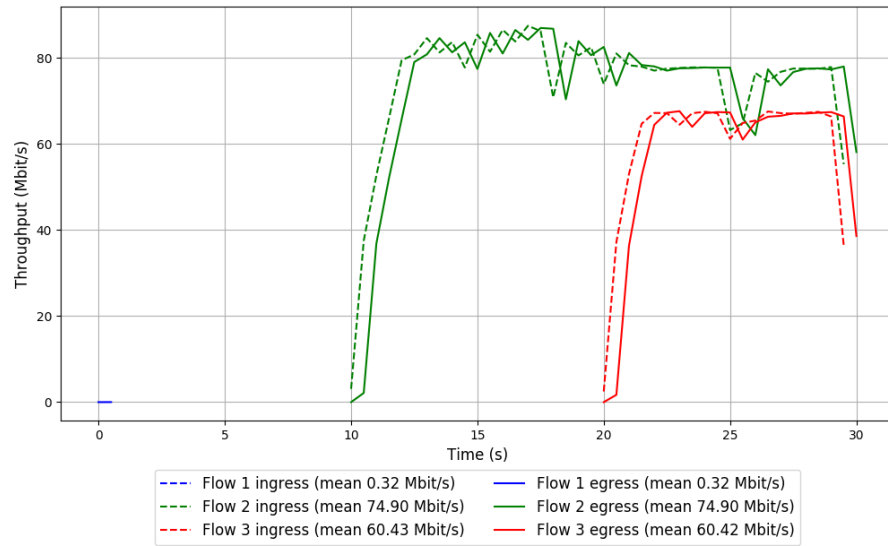
-- Flow 3:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 17.418 ms

Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-30 16:28:48

End at: 2018-05-30 16:29:18

Local clock offset: 0.048 ms

Remote clock offset: 0.124 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.17 Mbit/s

95th percentile per-packet one-way delay: 18.918 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.59 Mbit/s

95th percentile per-packet one-way delay: 17.509 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.96 Mbit/s

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

Loss rate: 0.00%

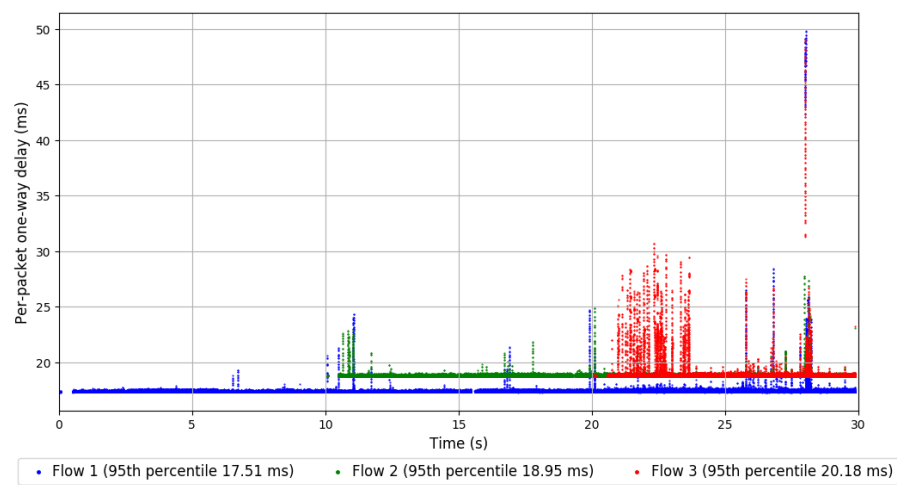
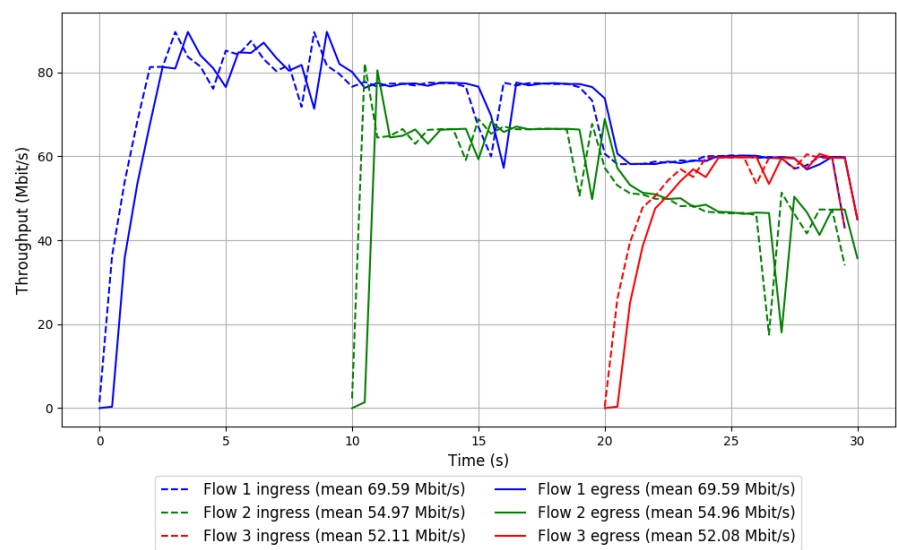
-- Flow 3:

Average throughput: 52.08 Mbit/s

95th percentile per-packet one-way delay: 20.178 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-30 16:54:45

End at: 2018-05-30 16:55:15

Local clock offset: 0.133 ms

Remote clock offset: 0.705 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.97 Mbit/s

95th percentile per-packet one-way delay: 20.888 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.54 Mbit/s

95th percentile per-packet one-way delay: 18.986 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.28 Mbit/s

95th percentile per-packet one-way delay: 18.944 ms

Loss rate: 0.00%

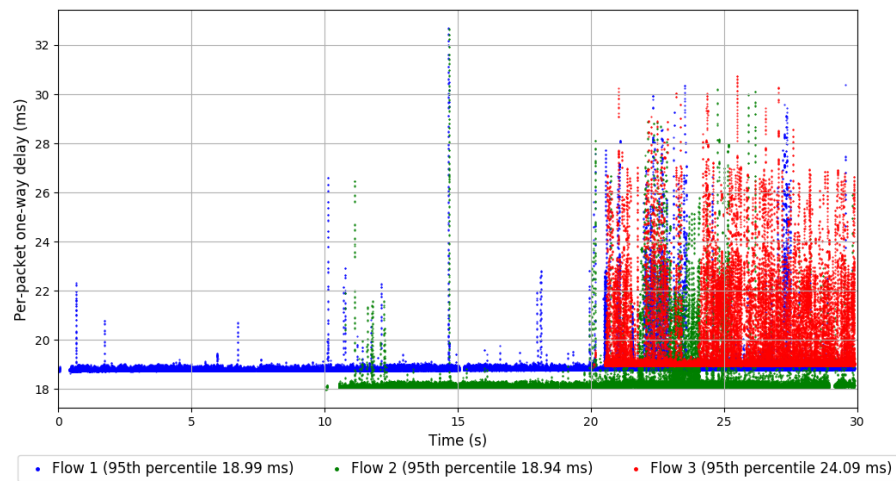
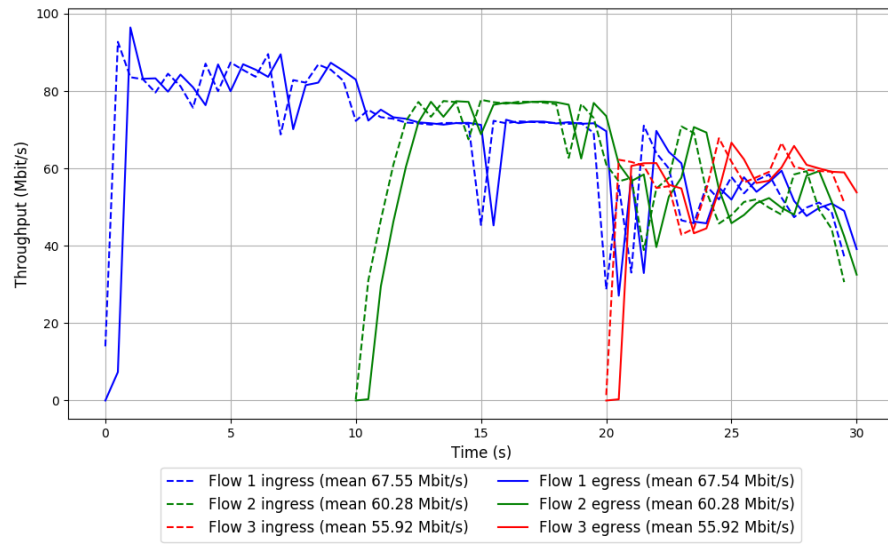
-- Flow 3:

Average throughput: 55.92 Mbit/s

95th percentile per-packet one-way delay: 24.088 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-30 17:20:23

End at: 2018-05-30 17:20:53

Local clock offset: 0.498 ms

Remote clock offset: 0.379 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.51 Mbit/s

95th percentile per-packet one-way delay: 19.100 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.90 Mbit/s

95th percentile per-packet one-way delay: 19.446 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.25 Mbit/s

95th percentile per-packet one-way delay: 18.916 ms

Loss rate: 0.00%

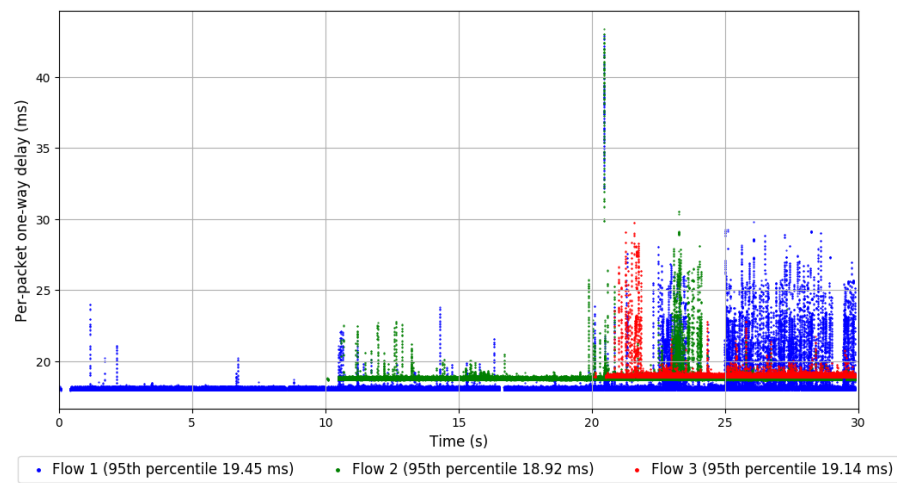
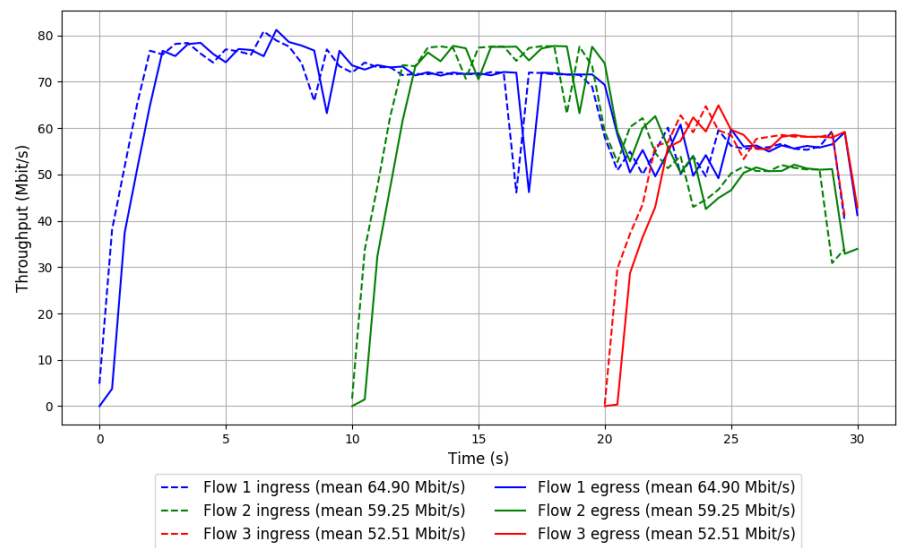
-- Flow 3:

Average throughput: 52.51 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

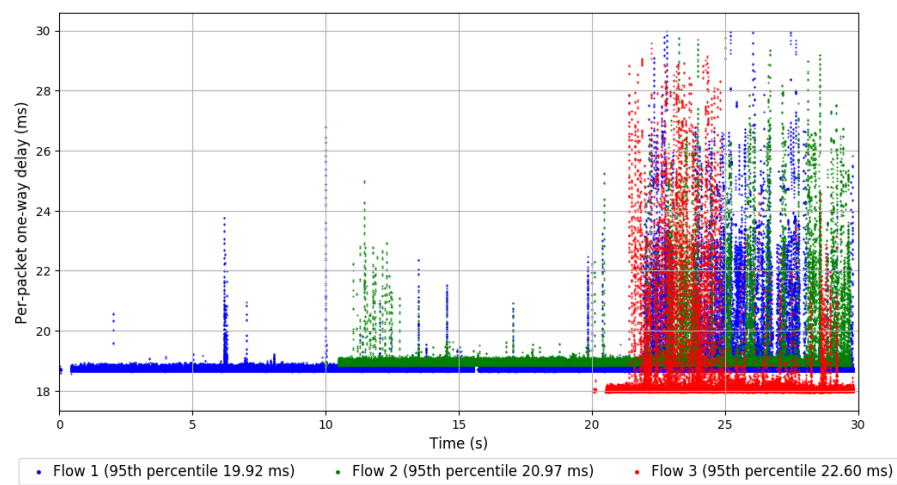
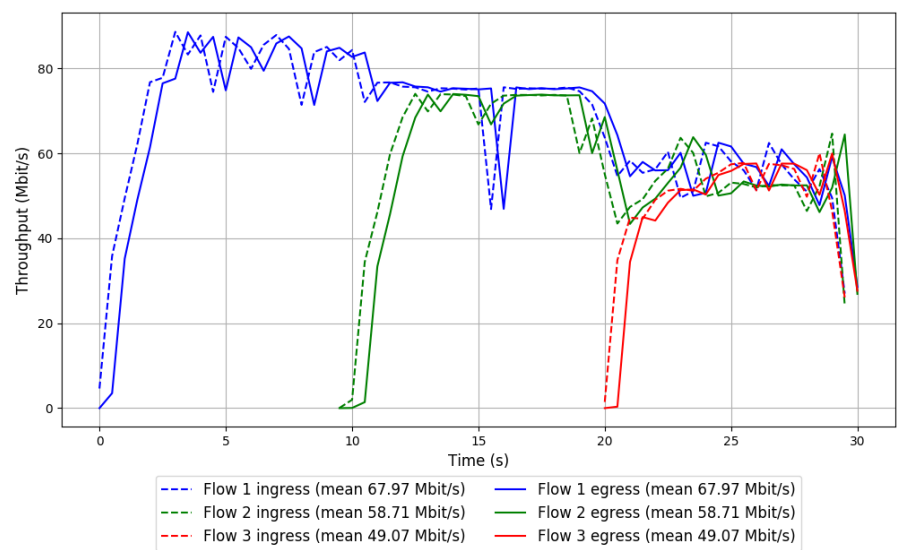


Run 5: Statistics of QUIC Cubic

Start at: 2018-05-30 17:45:49
End at: 2018-05-30 17:46:19
Local clock offset: -0.173 ms
Remote clock offset: -0.322 ms

Below is generated by plot.py at 2018-05-30 21:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 122.92 Mbit/s
95th percentile per-packet one-way delay: 20.723 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.97 Mbit/s
95th percentile per-packet one-way delay: 19.920 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.71 Mbit/s
95th percentile per-packet one-way delay: 20.974 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.07 Mbit/s
95th percentile per-packet one-way delay: 22.599 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

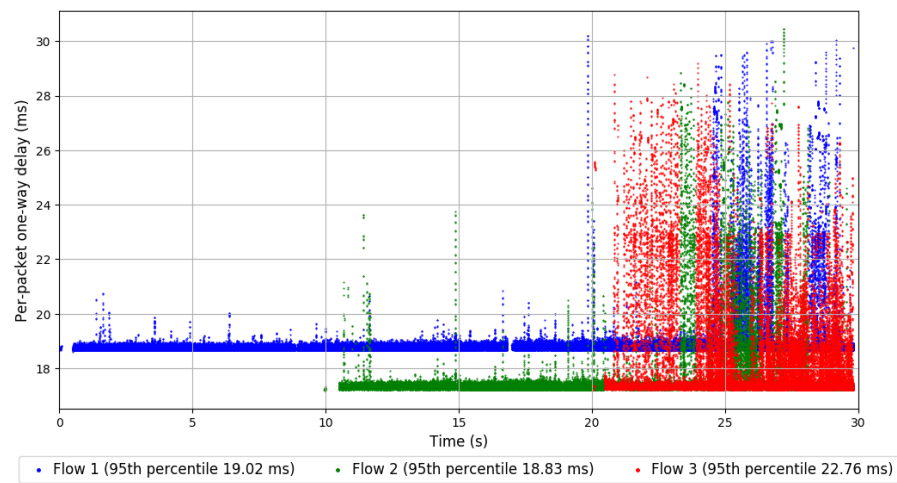
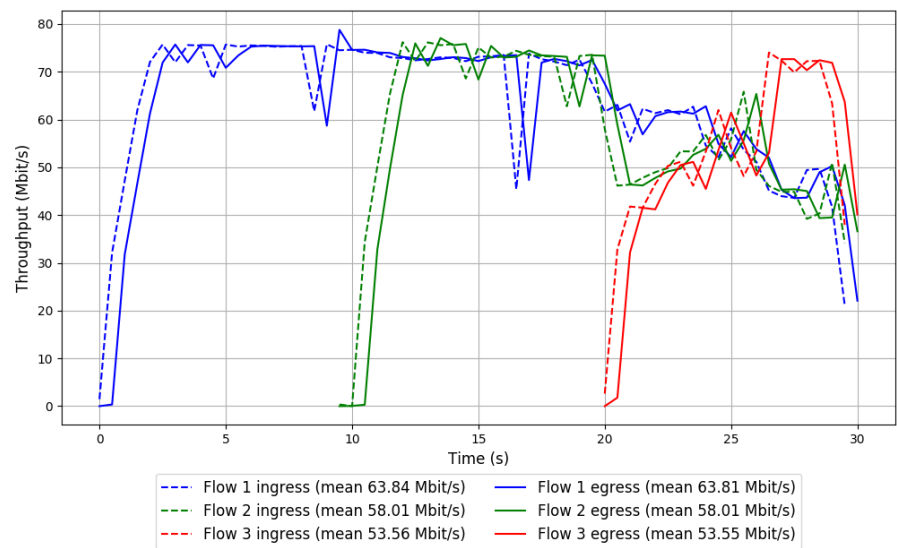


Run 6: Statistics of QUIC Cubic

Start at: 2018-05-30 18:11:23
End at: 2018-05-30 18:11:53
Local clock offset: 0.02 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-05-30 21:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 120.02 Mbit/s
95th percentile per-packet one-way delay: 19.959 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 63.81 Mbit/s
95th percentile per-packet one-way delay: 19.024 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.01 Mbit/s
95th percentile per-packet one-way delay: 18.834 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 53.55 Mbit/s
95th percentile per-packet one-way delay: 22.763 ms
Loss rate: 0.01%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-30 18:37:04

End at: 2018-05-30 18:37:34

Local clock offset: 0.33 ms

Remote clock offset: 0.109 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.85 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 62.74 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.05 Mbit/s

95th percentile per-packet one-way delay: 21.210 ms

Loss rate: 0.00%

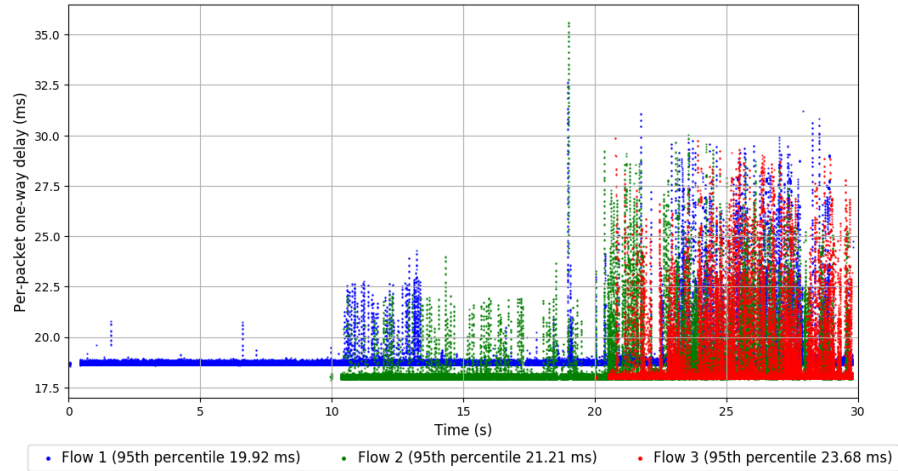
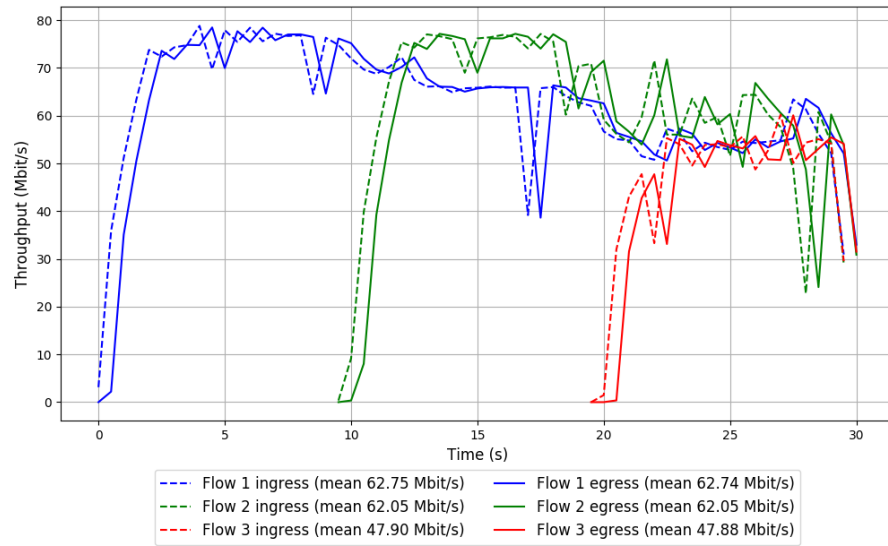
-- Flow 3:

Average throughput: 47.88 Mbit/s

95th percentile per-packet one-way delay: 23.680 ms

Loss rate: 0.05%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-30 19:02:35

End at: 2018-05-30 19:03:05

Local clock offset: -0.17 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.07 Mbit/s

95th percentile per-packet one-way delay: 19.303 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.02 Mbit/s

95th percentile per-packet one-way delay: 20.274 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.23 Mbit/s

95th percentile per-packet one-way delay: 18.388 ms

Loss rate: 0.00%

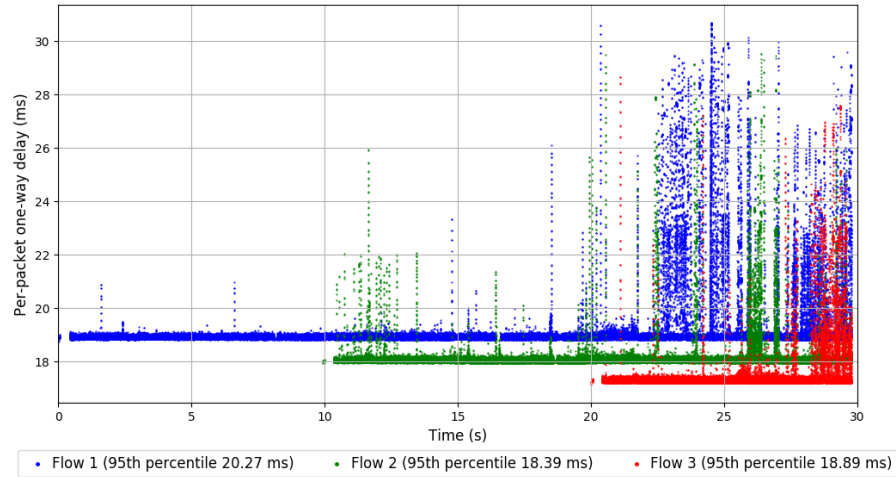
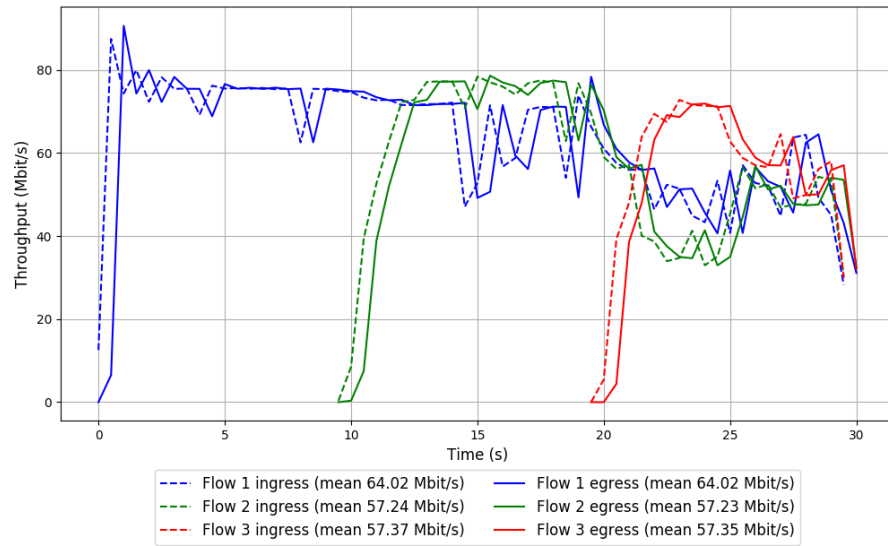
-- Flow 3:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 18.894 ms

Loss rate: 0.02%

Run 8: Report of QUIC Cubic — Data Link

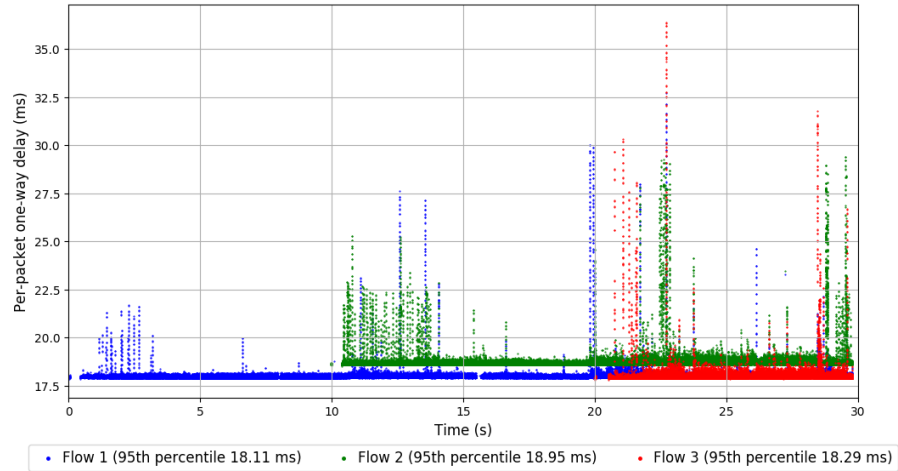
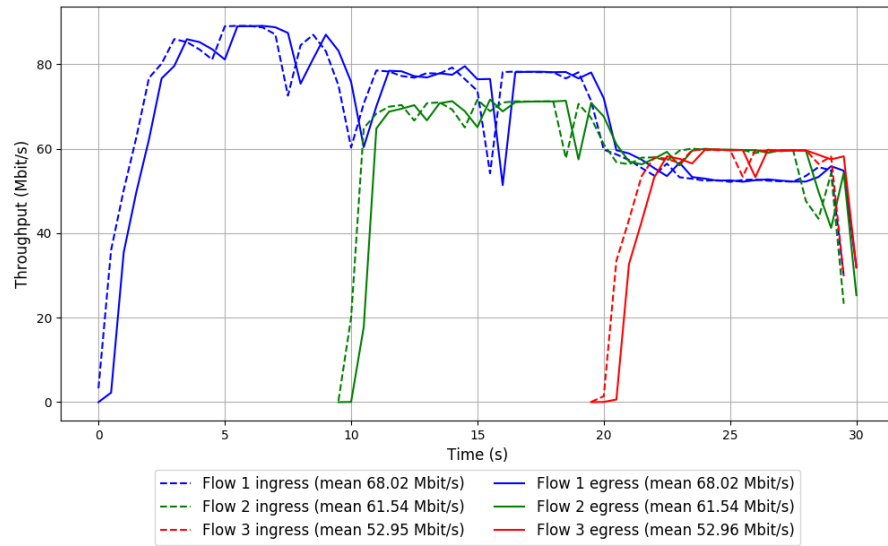


Run 9: Statistics of QUIC Cubic

Start at: 2018-05-30 19:28:11
End at: 2018-05-30 19:28:41
Local clock offset: -0.914 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-05-30 21:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 126.46 Mbit/s
95th percentile per-packet one-way delay: 18.795 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.02 Mbit/s
95th percentile per-packet one-way delay: 18.105 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.54 Mbit/s
95th percentile per-packet one-way delay: 18.954 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.96 Mbit/s
95th percentile per-packet one-way delay: 18.290 ms
Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

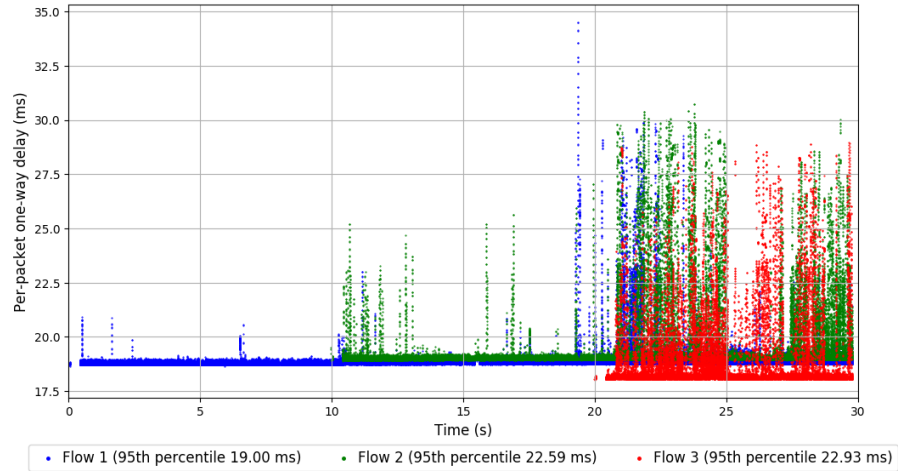
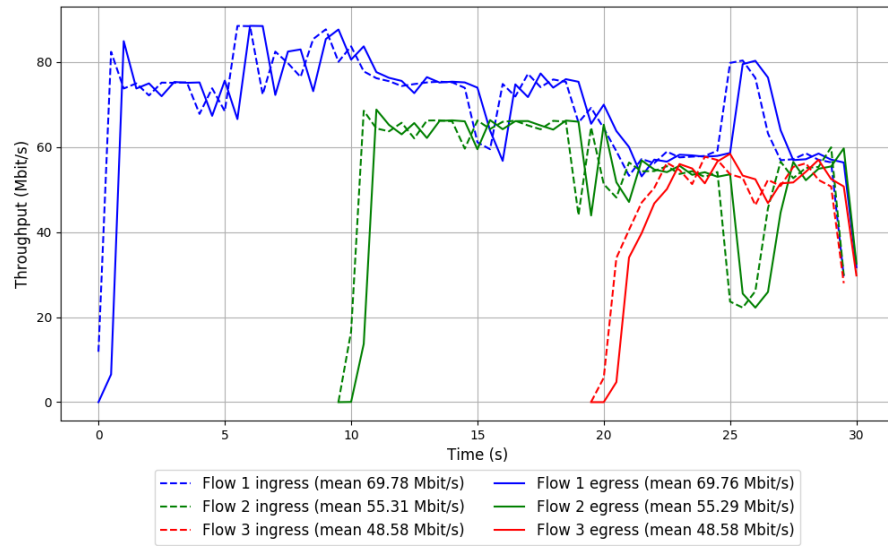


Run 10: Statistics of QUIC Cubic

Start at: 2018-05-30 19:53:42
End at: 2018-05-30 19:54:12
Local clock offset: -1.421 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-05-30 21:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 122.59 Mbit/s
95th percentile per-packet one-way delay: 20.762 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 69.76 Mbit/s
95th percentile per-packet one-way delay: 19.004 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 55.29 Mbit/s
95th percentile per-packet one-way delay: 22.595 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 48.58 Mbit/s
95th percentile per-packet one-way delay: 22.931 ms
Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

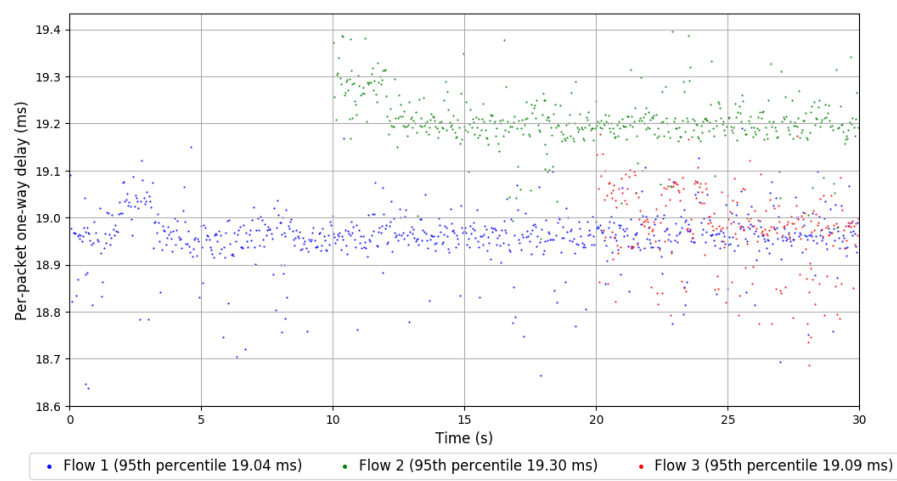
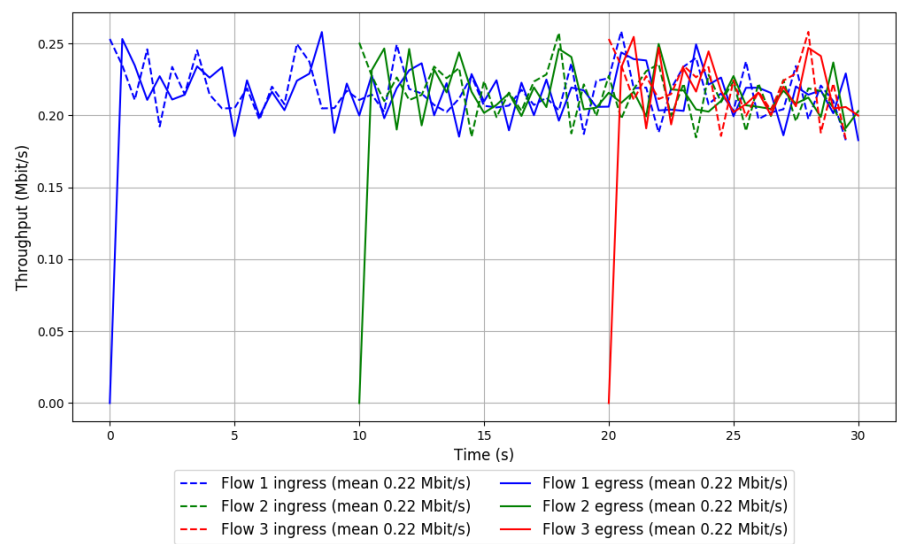


```
Run 1: Statistics of SCReAM

Start at: 2018-05-30 16:00:19
End at: 2018-05-30 16:00:49
Local clock offset: 0.098 ms
Remote clock offset: -0.488 ms

# Below is generated by plot.py at 2018-05-30 21:53:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.250 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.041 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.304 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.091 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

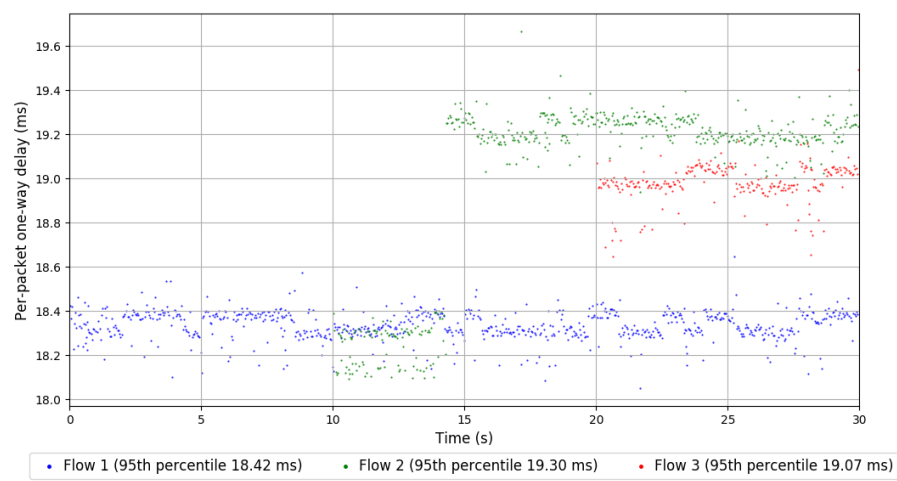
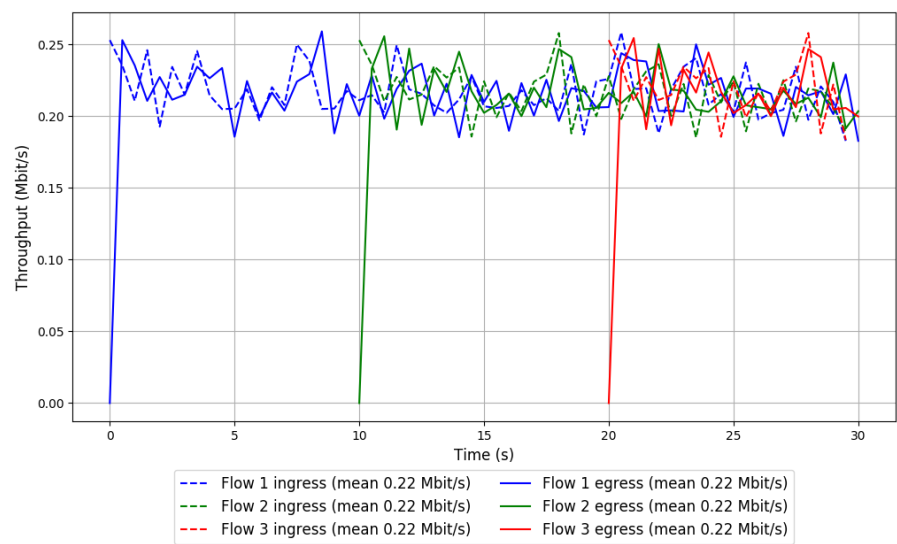


Run 2: Statistics of SReAM

Start at: 2018-05-30 16:25:38
End at: 2018-05-30 16:26:08
Local clock offset: 0.03 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-05-30 21:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.275 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.420 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.298 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.070 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-05-30 16:51:28

End at: 2018-05-30 16:51:58

Local clock offset: 0.063 ms

Remote clock offset: 0.708 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.273 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.300 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.151 ms

Loss rate: 0.00%

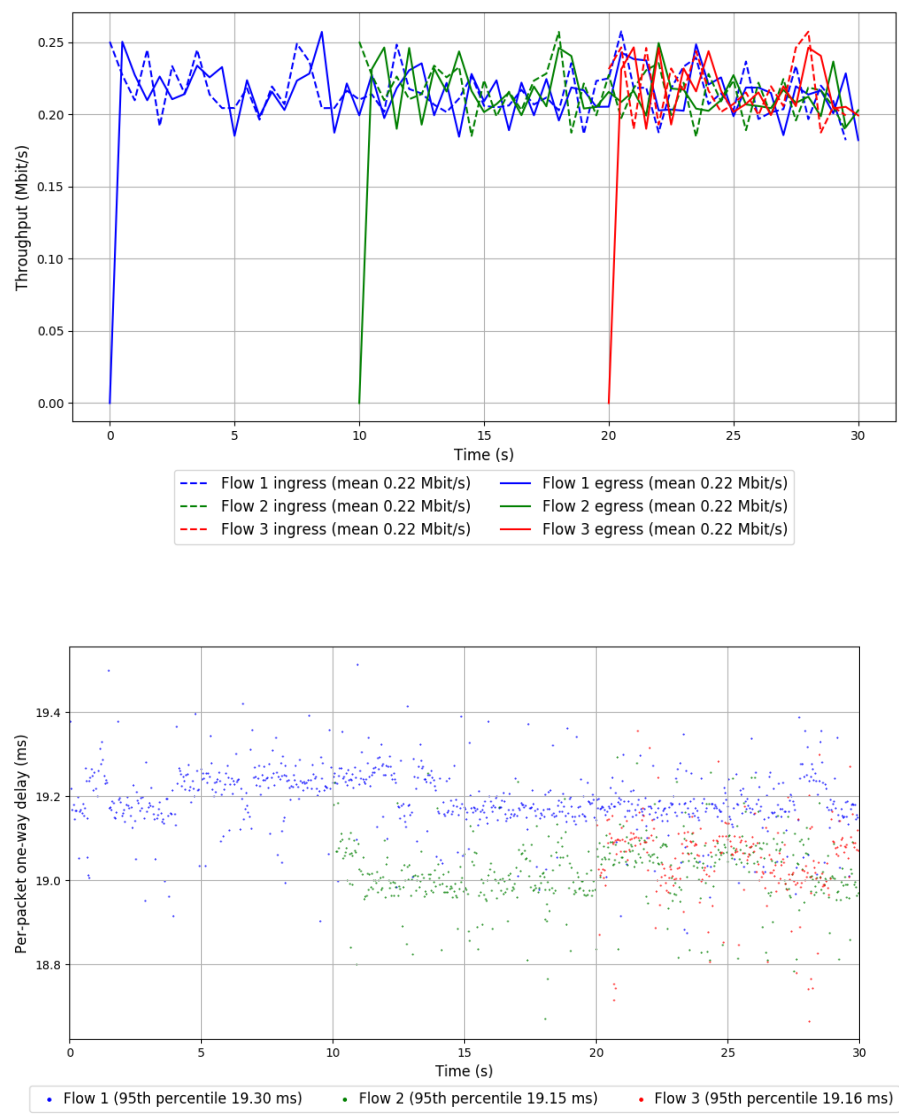
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.157 ms

Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-05-30 17:17:11

End at: 2018-05-30 17:17:41

Local clock offset: 0.405 ms

Remote clock offset: 0.368 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.203 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.275 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

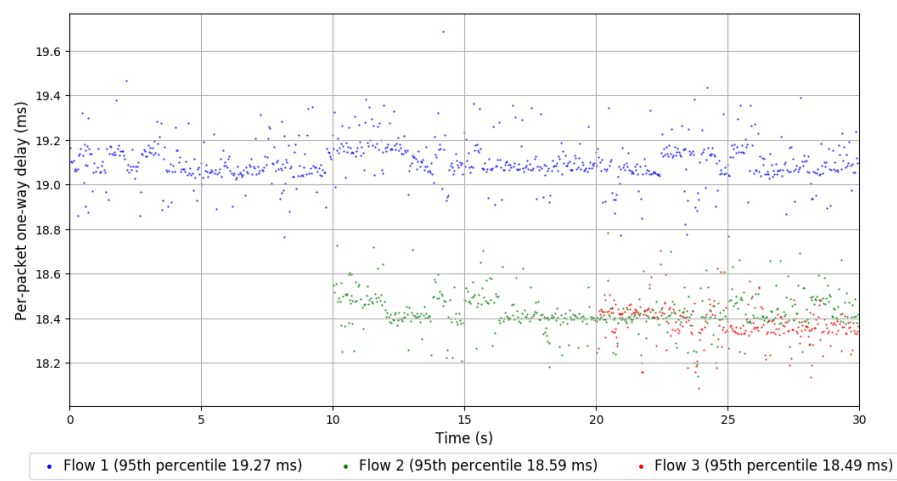
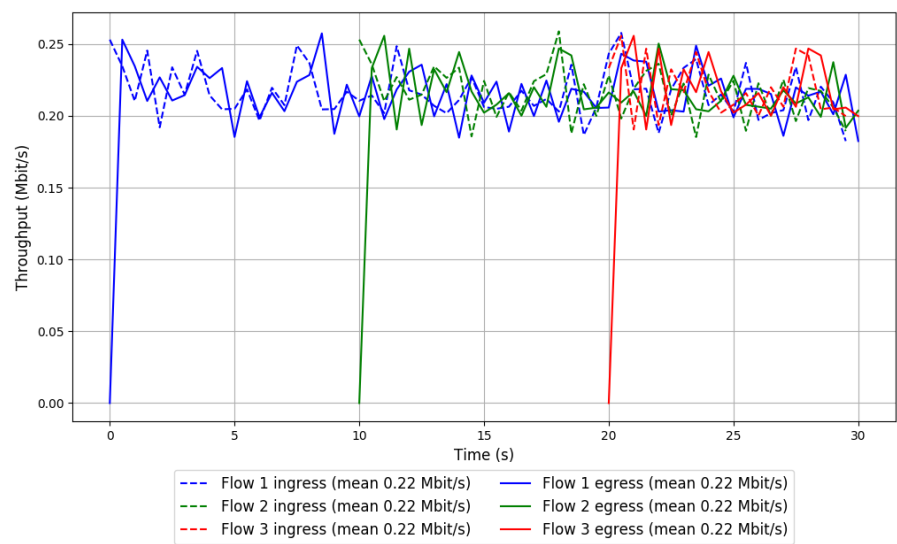
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.488 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

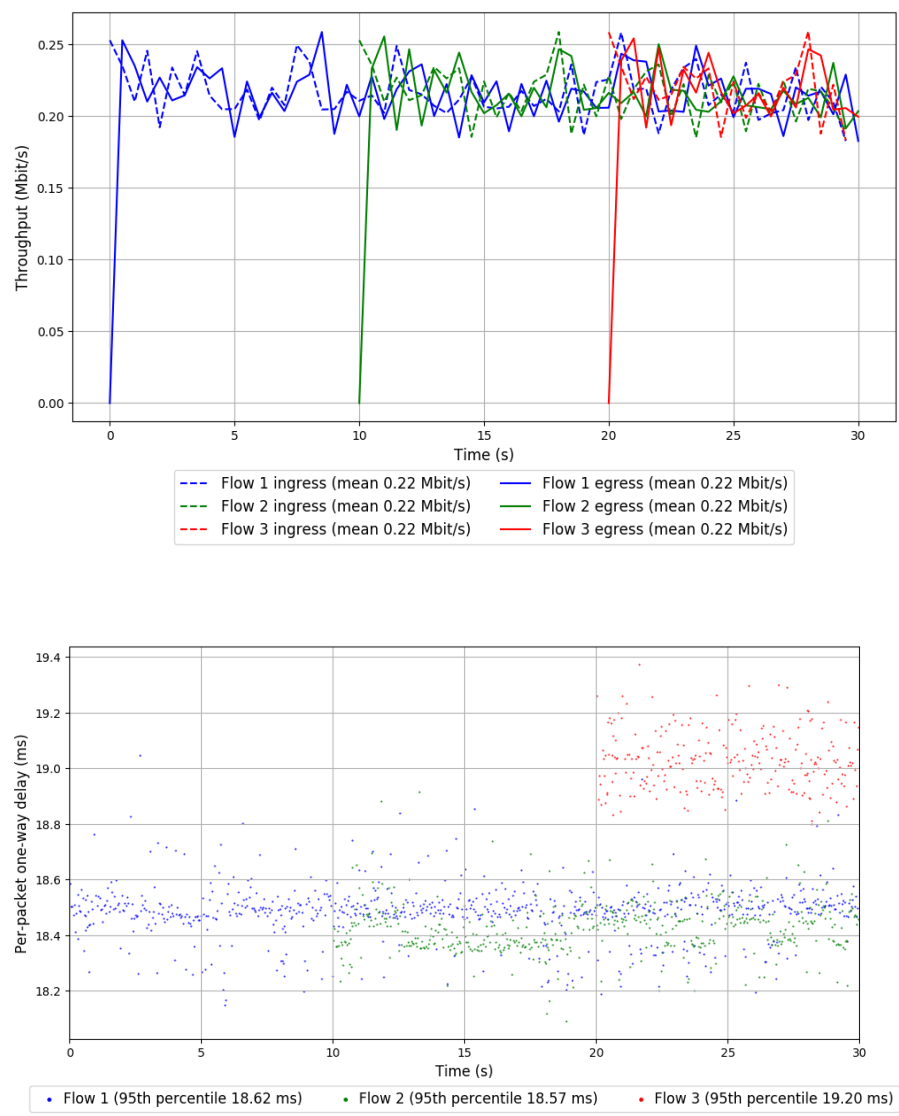


Run 5: Statistics of SReAM

Start at: 2018-05-30 17:42:41
End at: 2018-05-30 17:43:11
Local clock offset: -0.219 ms
Remote clock offset: -0.236 ms

Below is generated by plot.py at 2018-05-30 21:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.067 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.617 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.571 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.196 ms
Loss rate: 0.00%

Run 5: Report of SCRaM — Data Link

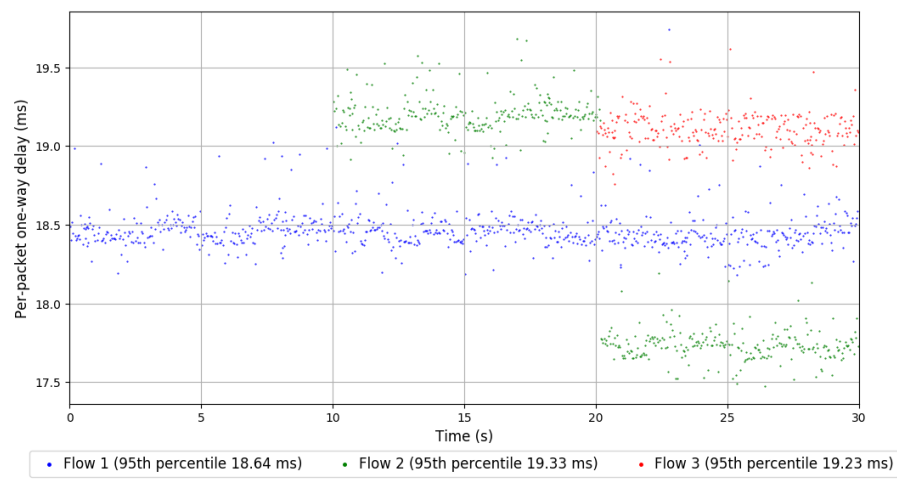
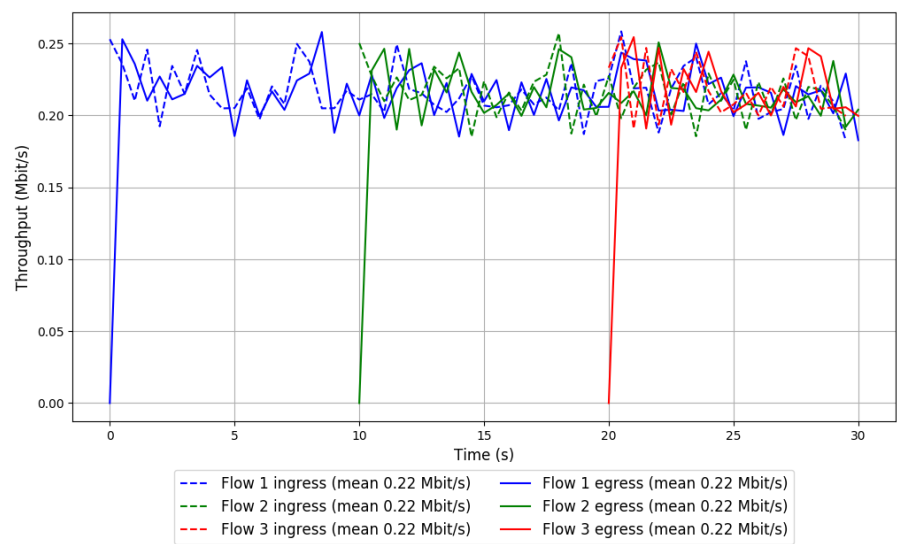


Run 6: Statistics of SReAM

Start at: 2018-05-30 18:08:06
End at: 2018-05-30 18:08:36
Local clock offset: -0.046 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2018-05-30 21:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.242 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.639 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.331 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.232 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-05-30 18:33:49

End at: 2018-05-30 18:34:19

Local clock offset: 0.282 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 18.486 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.514 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.520 ms

Loss rate: 0.00%

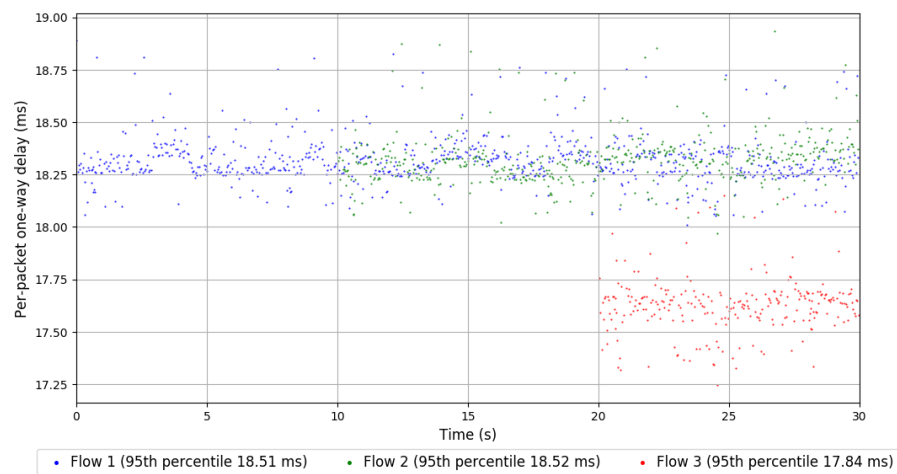
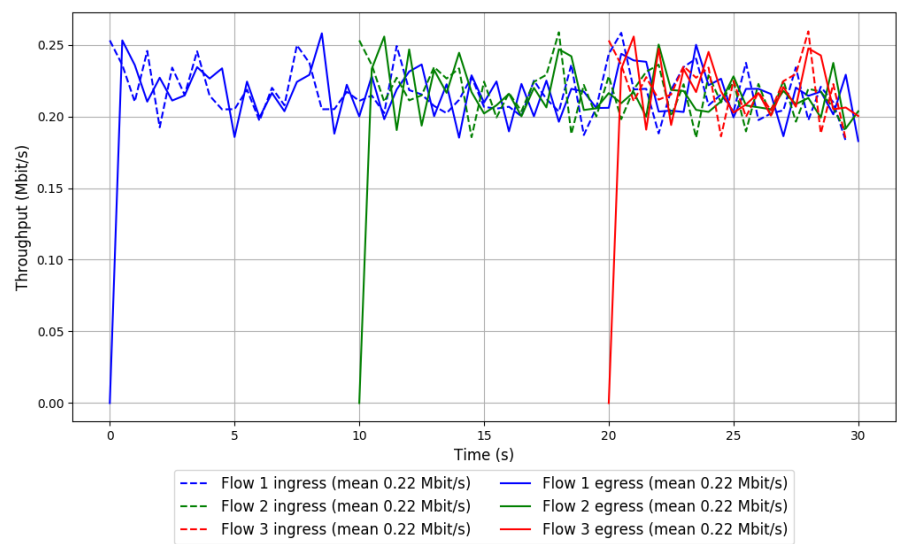
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.839 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-30 18:59:26

End at: 2018-05-30 18:59:57

Local clock offset: -0.128 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.442 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.758 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

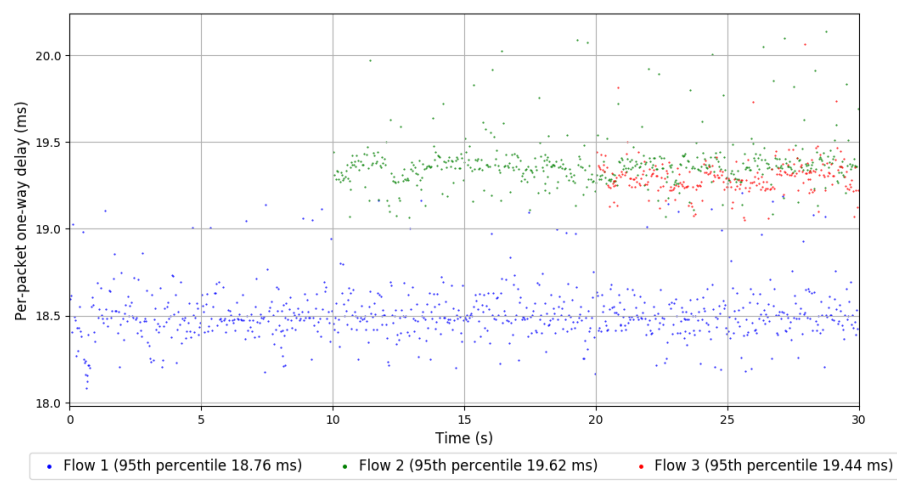
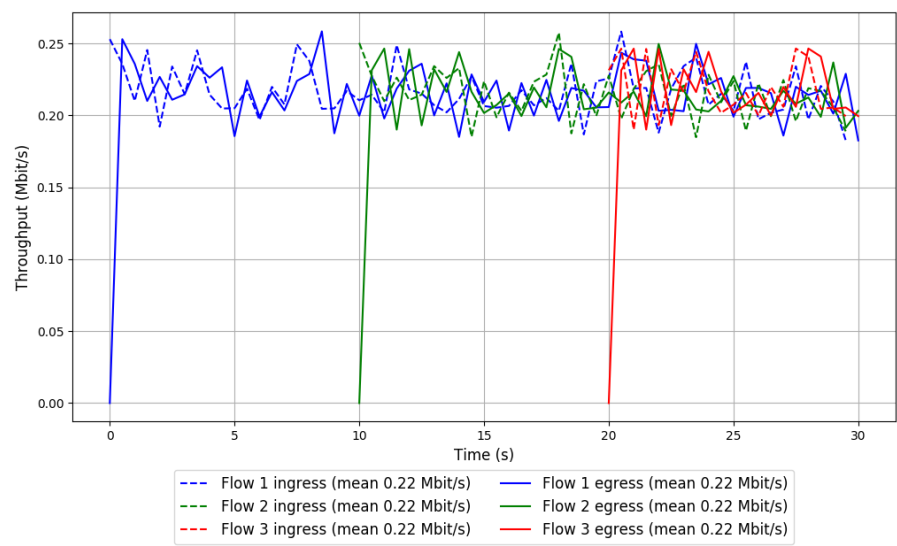
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.442 ms

Loss rate: 0.00%

Run 8: Report of SCReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-05-30 19:24:58

End at: 2018-05-30 19:25:28

Local clock offset: -0.927 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.786 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.254 ms

Loss rate: 0.00%

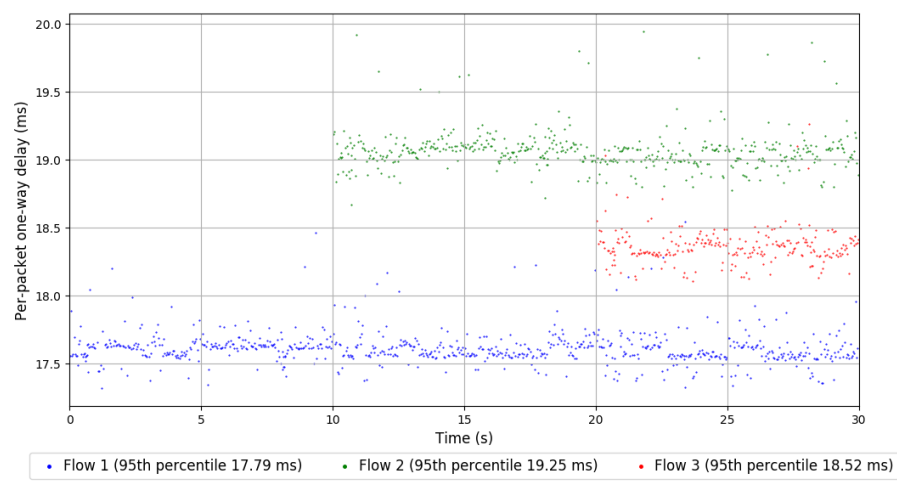
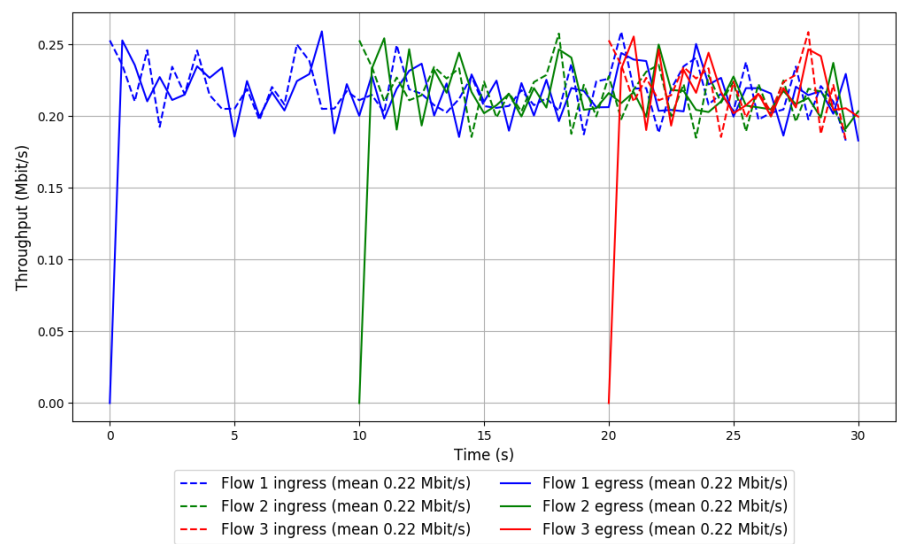
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.517 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-30 19:50:31

End at: 2018-05-30 19:51:01

Local clock offset: -1.416 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 18.527 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.664 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.468 ms

Loss rate: 0.00%

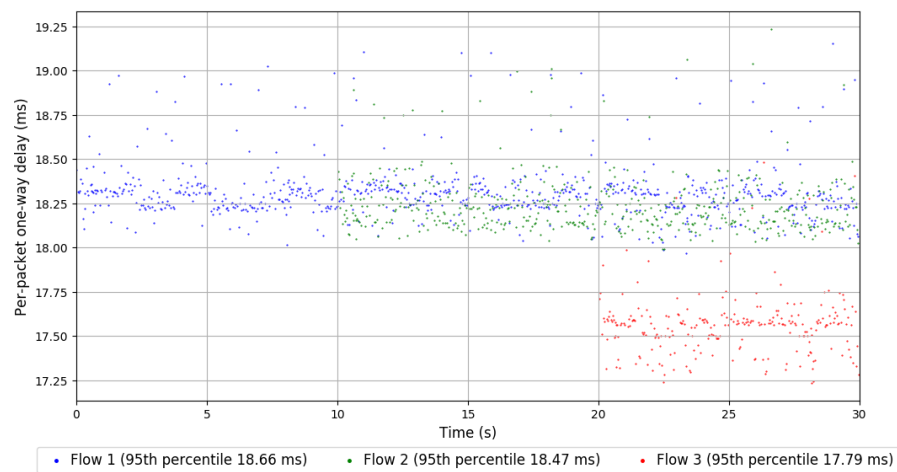
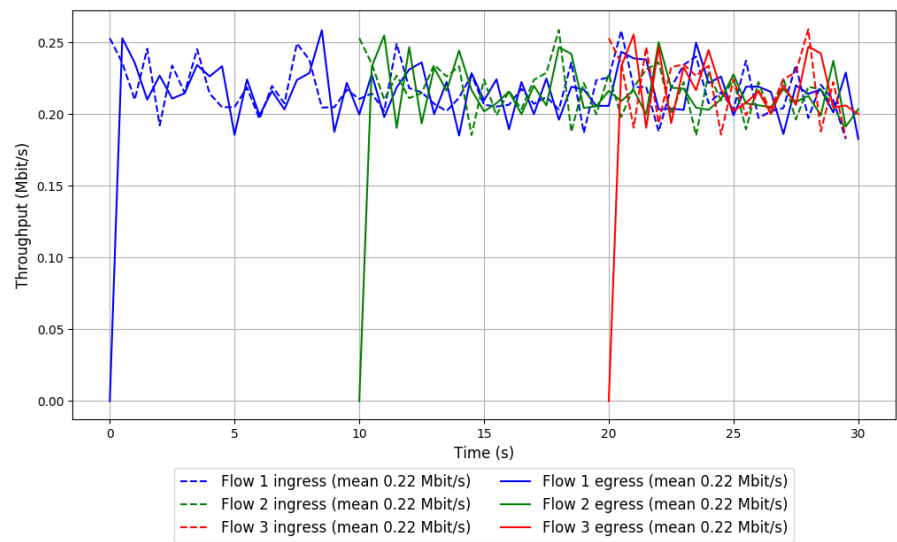
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.791 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

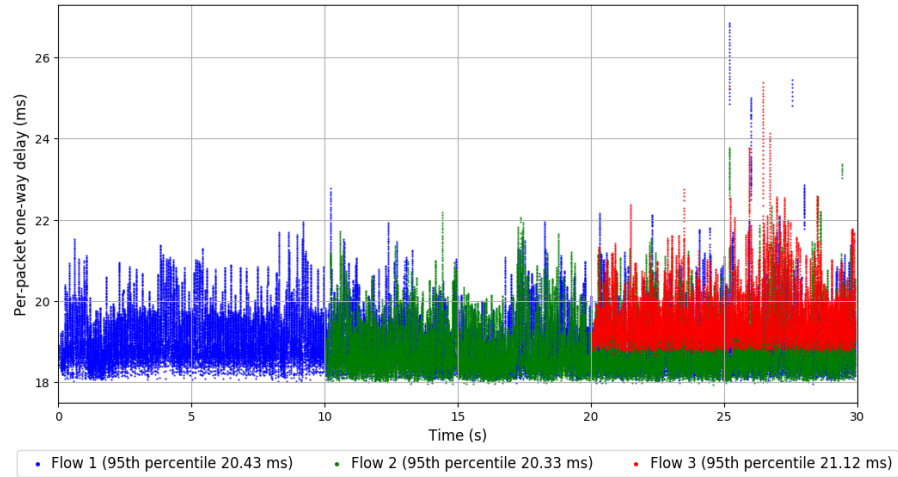
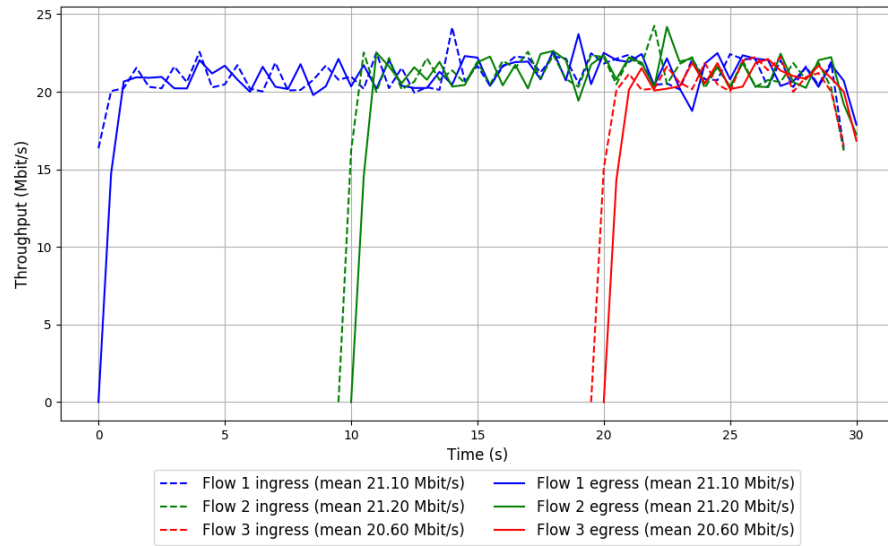


Run 1: Statistics of Sprout

Start at: 2018-05-30 15:52:38
End at: 2018-05-30 15:53:08
Local clock offset: 0.008 ms
Remote clock offset: -0.391 ms

Below is generated by plot.py at 2018-05-30 21:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.03 Mbit/s
95th percentile per-packet one-way delay: 20.553 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.10 Mbit/s
95th percentile per-packet one-way delay: 20.434 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.20 Mbit/s
95th percentile per-packet one-way delay: 20.331 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.60 Mbit/s
95th percentile per-packet one-way delay: 21.123 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-30 16:17:52

End at: 2018-05-30 16:18:22

Local clock offset: 0.101 ms

Remote clock offset: -0.4 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.41 Mbit/s

95th percentile per-packet one-way delay: 20.845 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 20.93 Mbit/s

95th percentile per-packet one-way delay: 20.006 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 20.49 Mbit/s

95th percentile per-packet one-way delay: 21.421 ms

Loss rate: 0.00%

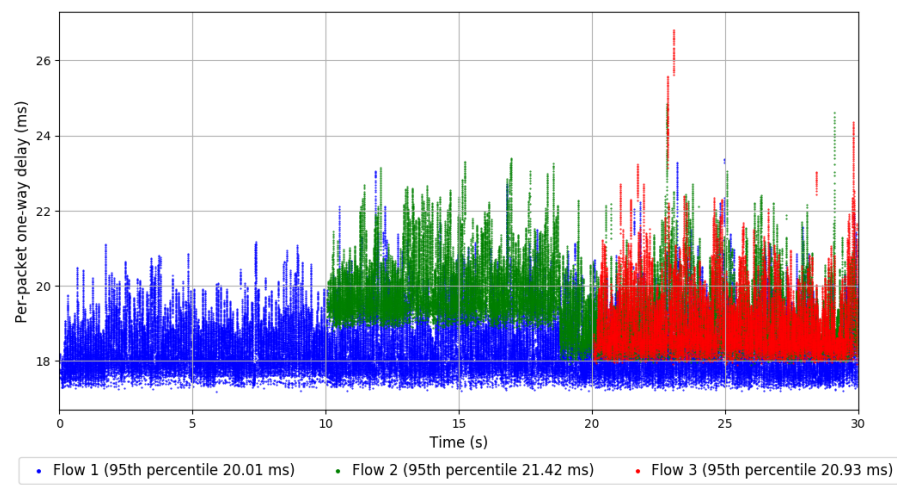
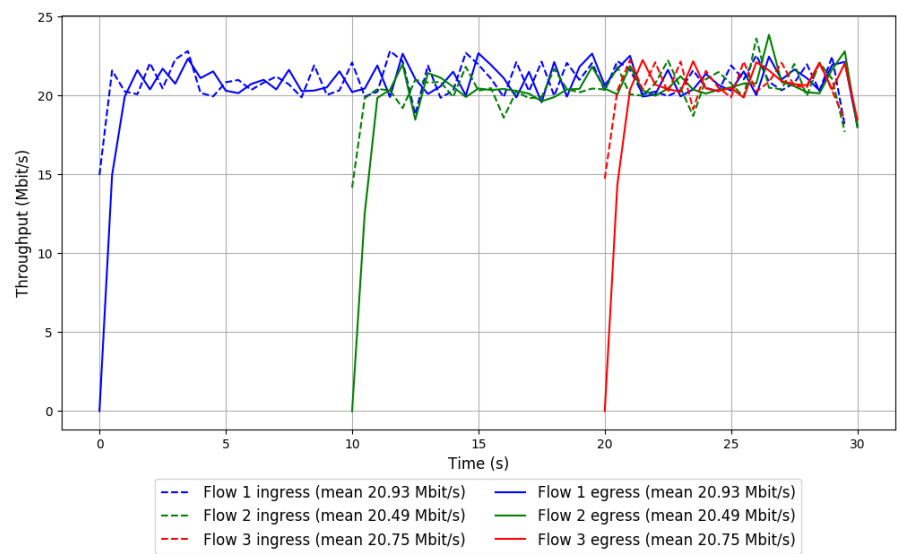
-- Flow 3:

Average throughput: 20.75 Mbit/s

95th percentile per-packet one-way delay: 20.929 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-05-30 16:43:40

End at: 2018-05-30 16:44:10

Local clock offset: 0.174 ms

Remote clock offset: 0.599 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.33 Mbit/s

95th percentile per-packet one-way delay: 21.175 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 20.86 Mbit/s

95th percentile per-packet one-way delay: 20.815 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 21.190 ms

Loss rate: 0.00%

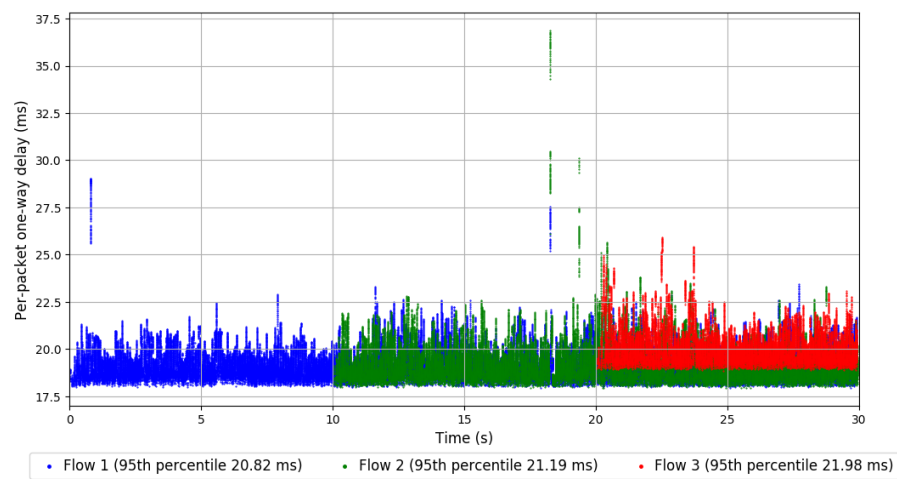
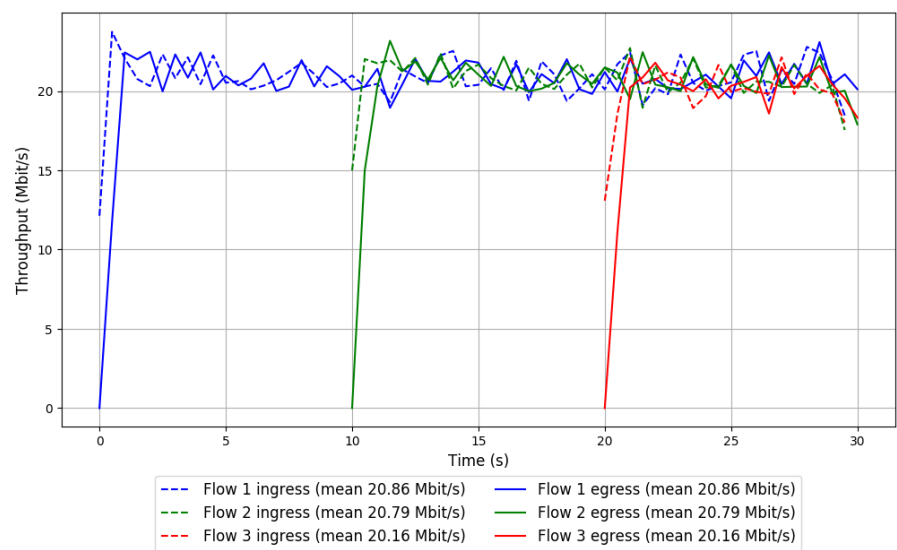
-- Flow 3:

Average throughput: 20.16 Mbit/s

95th percentile per-packet one-way delay: 21.978 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

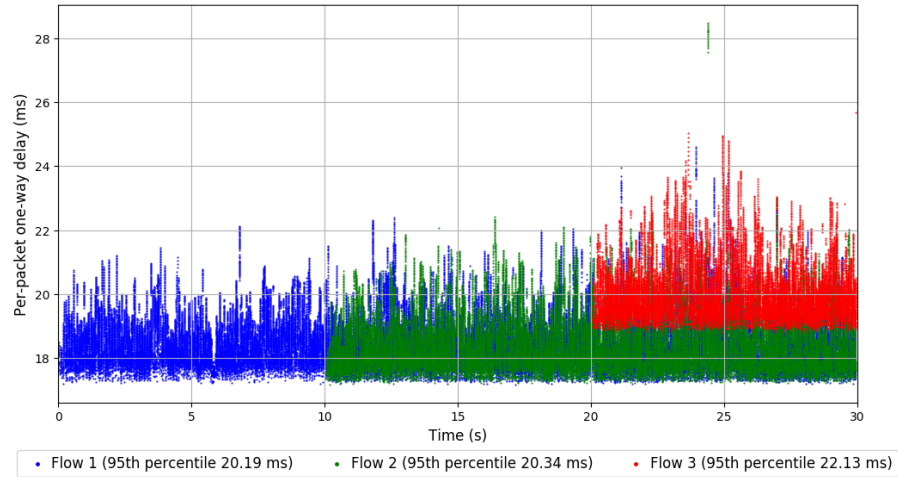
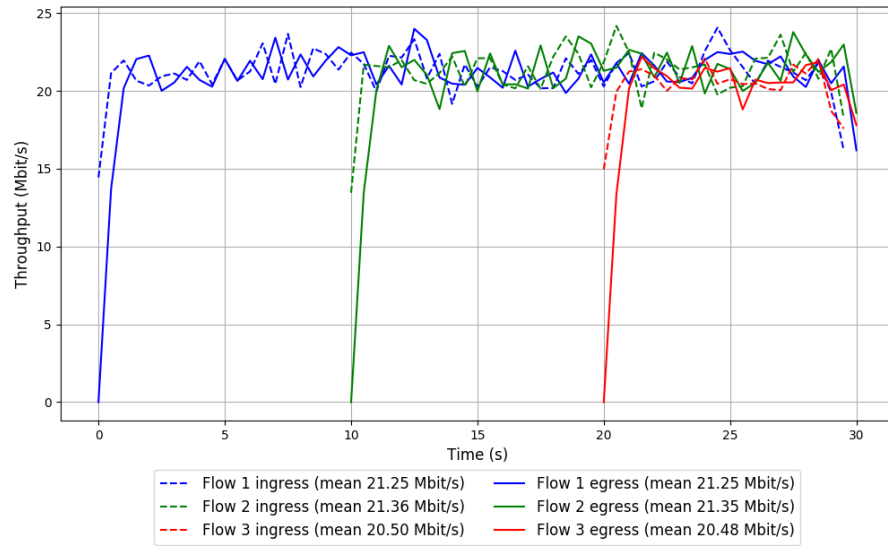


Run 4: Statistics of Sprout

Start at: 2018-05-30 17:09:21
End at: 2018-05-30 17:09:51
Local clock offset: 0.454 ms
Remote clock offset: 0.308 ms

```
# Below is generated by plot.py at 2018-05-30 21:53:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.21 Mbit/s
95th percentile per-packet one-way delay: 20.842 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.25 Mbit/s
95th percentile per-packet one-way delay: 20.192 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.35 Mbit/s
95th percentile per-packet one-way delay: 20.338 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.48 Mbit/s
95th percentile per-packet one-way delay: 22.128 ms
Loss rate: 0.02%
```

Run 4: Report of Sprout — Data Link

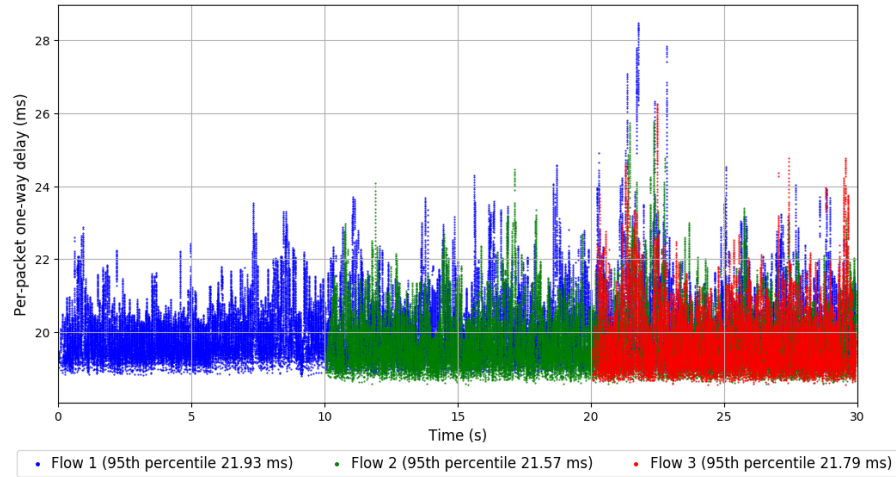
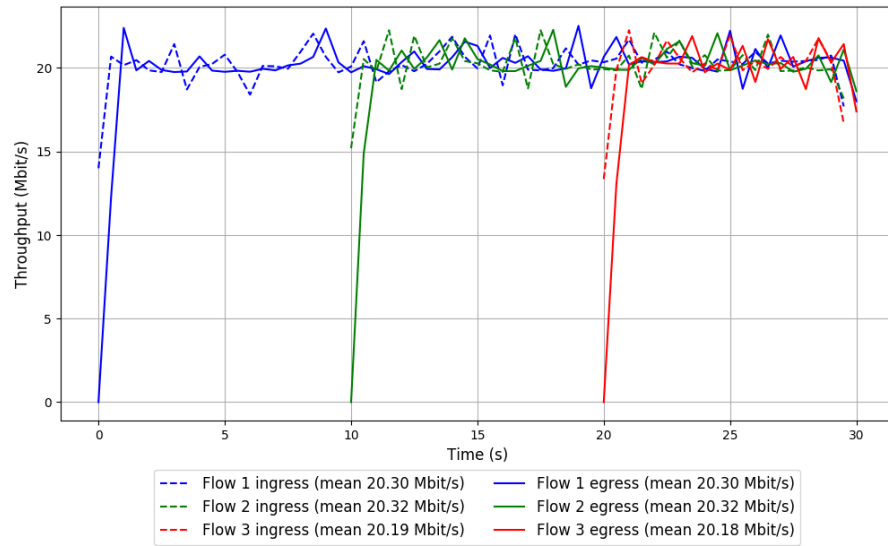


Run 5: Statistics of Sprout

Start at: 2018-05-30 17:34:50
End at: 2018-05-30 17:35:20
Local clock offset: 0.038 ms
Remote clock offset: -0.07 ms

```
# Below is generated by plot.py at 2018-05-30 21:53:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.48 Mbit/s
95th percentile per-packet one-way delay: 21.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.30 Mbit/s
95th percentile per-packet one-way delay: 21.932 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.32 Mbit/s
95th percentile per-packet one-way delay: 21.571 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.18 Mbit/s
95th percentile per-packet one-way delay: 21.786 ms
Loss rate: 0.00%
```


Run 5: Report of Sprout — Data Link

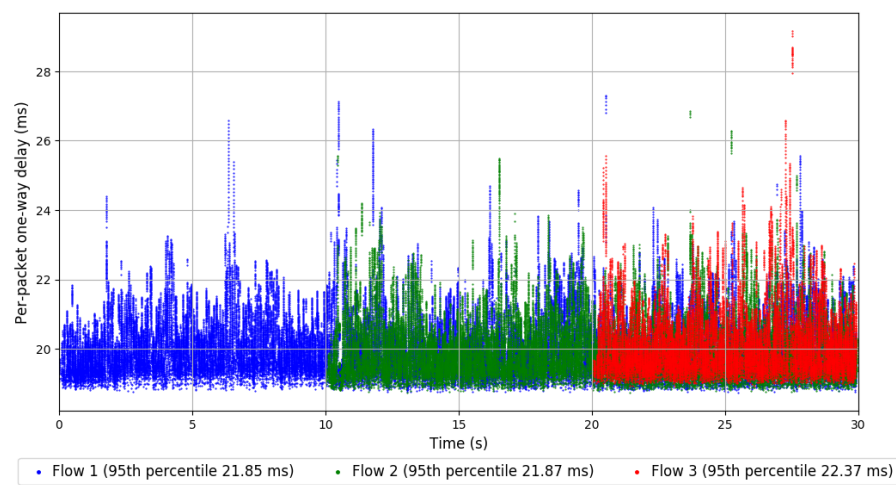
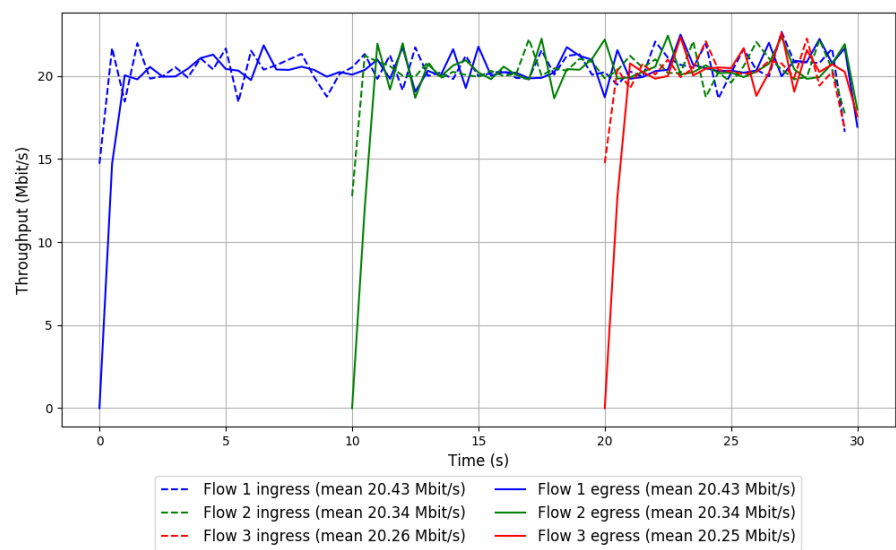


Run 6: Statistics of Sprout

Start at: 2018-05-30 18:00:28
End at: 2018-05-30 18:00:58
Local clock offset: -0.135 ms
Remote clock offset: -0.384 ms

Below is generated by plot.py at 2018-05-30 21:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 21.936 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.43 Mbit/s
95th percentile per-packet one-way delay: 21.848 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.34 Mbit/s
95th percentile per-packet one-way delay: 21.867 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.25 Mbit/s
95th percentile per-packet one-way delay: 22.374 ms
Loss rate: 0.01%

Run 6: Report of Sprout — Data Link

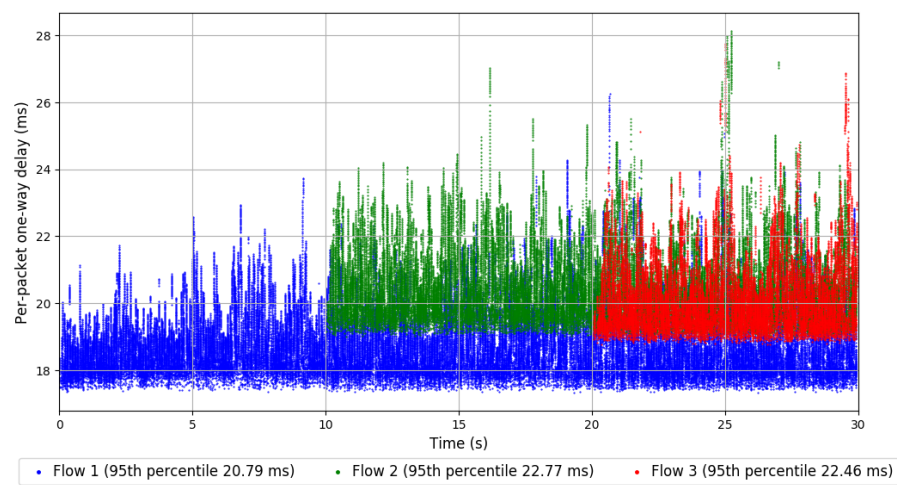
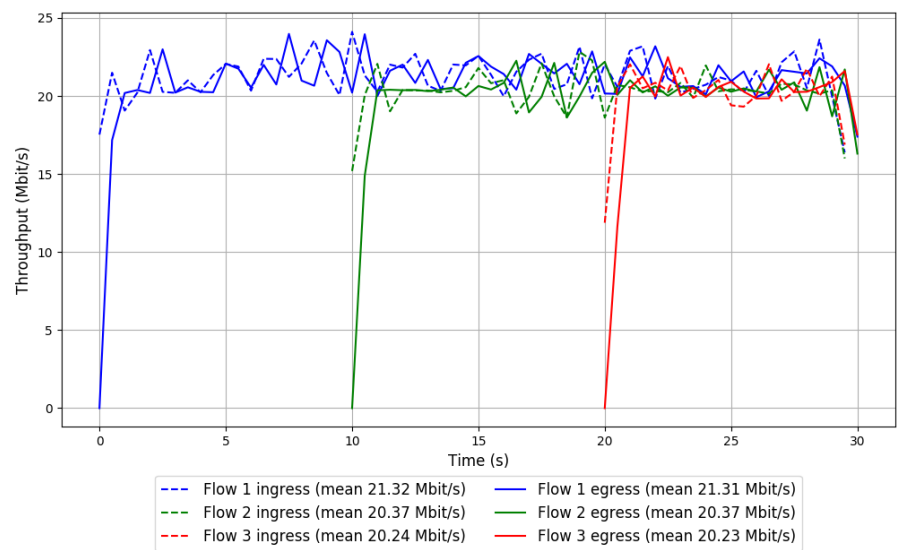


Run 7: Statistics of Sprout

Start at: 2018-05-30 18:26:00
End at: 2018-05-30 18:26:30
Local clock offset: 0.007 ms
Remote clock offset: 0.099 ms

```
# Below is generated by plot.py at 2018-05-30 21:53:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.54 Mbit/s
95th percentile per-packet one-way delay: 22.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.31 Mbit/s
95th percentile per-packet one-way delay: 20.789 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 20.37 Mbit/s
95th percentile per-packet one-way delay: 22.774 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.23 Mbit/s
95th percentile per-packet one-way delay: 22.460 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link

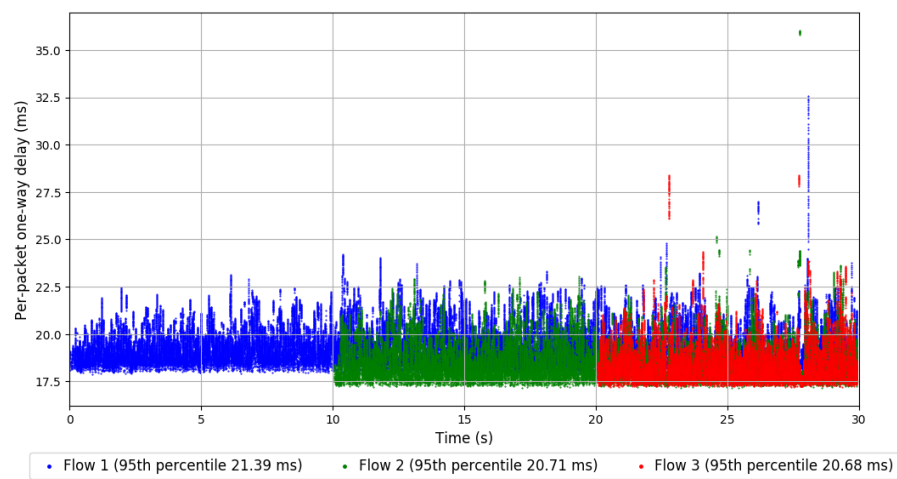
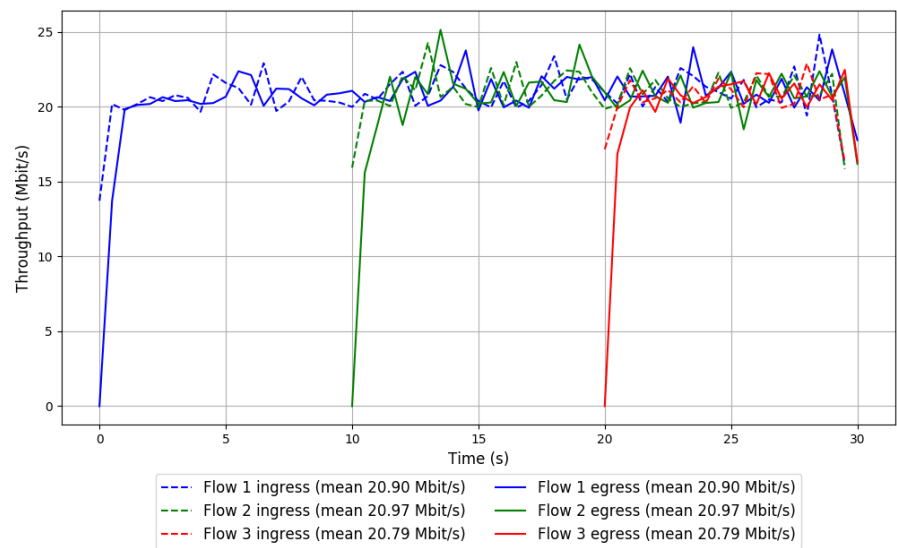


Run 8: Statistics of Sprout

Start at: 2018-05-30 18:51:37
End at: 2018-05-30 18:52:07
Local clock offset: 0.343 ms
Remote clock offset: 0.0 ms

```
# Below is generated by plot.py at 2018-05-30 21:53:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.71 Mbit/s
95th percentile per-packet one-way delay: 21.141 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.90 Mbit/s
95th percentile per-packet one-way delay: 21.388 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.97 Mbit/s
95th percentile per-packet one-way delay: 20.715 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.79 Mbit/s
95th percentile per-packet one-way delay: 20.675 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

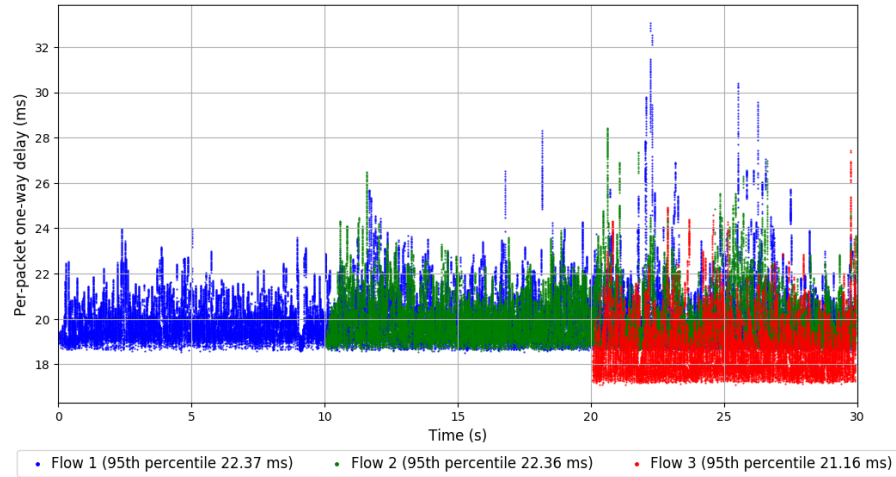
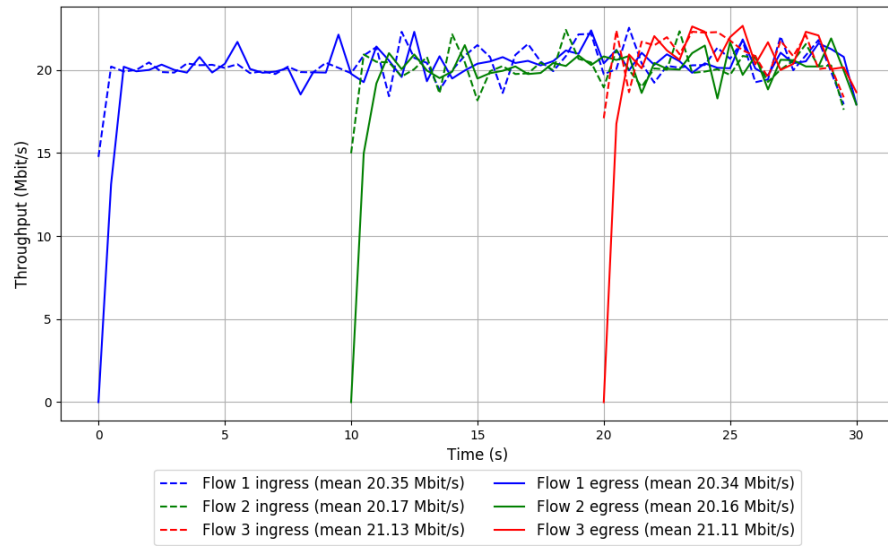


Run 9: Statistics of Sprout

Start at: 2018-05-30 19:17:08
End at: 2018-05-30 19:17:38
Local clock offset: -0.638 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-05-30 21:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.73 Mbit/s
95th percentile per-packet one-way delay: 22.249 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 20.34 Mbit/s
95th percentile per-packet one-way delay: 22.371 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 20.16 Mbit/s
95th percentile per-packet one-way delay: 22.365 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.11 Mbit/s
95th percentile per-packet one-way delay: 21.157 ms
Loss rate: 0.08%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-30 19:42:47

End at: 2018-05-30 19:43:17

Local clock offset: -1.249 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-05-30 21:53:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.87 Mbit/s

95th percentile per-packet one-way delay: 21.943 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 20.19 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.02 Mbit/s

95th percentile per-packet one-way delay: 20.910 ms

Loss rate: 0.00%

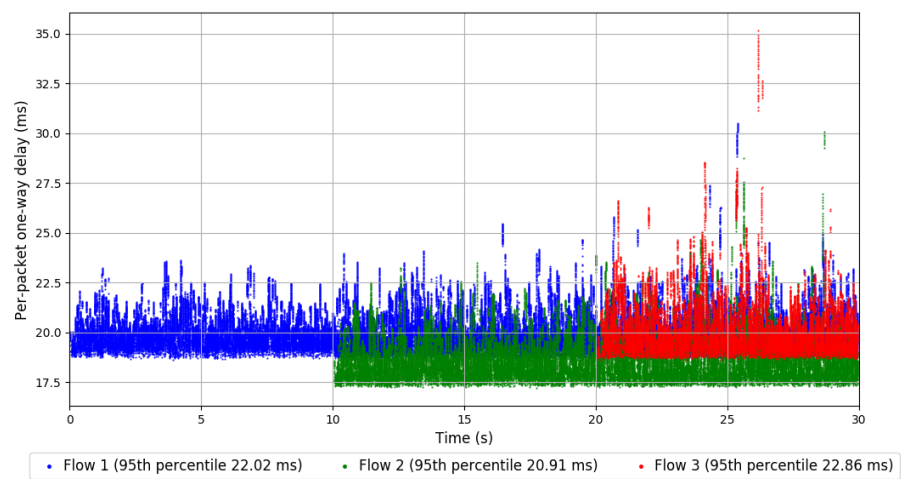
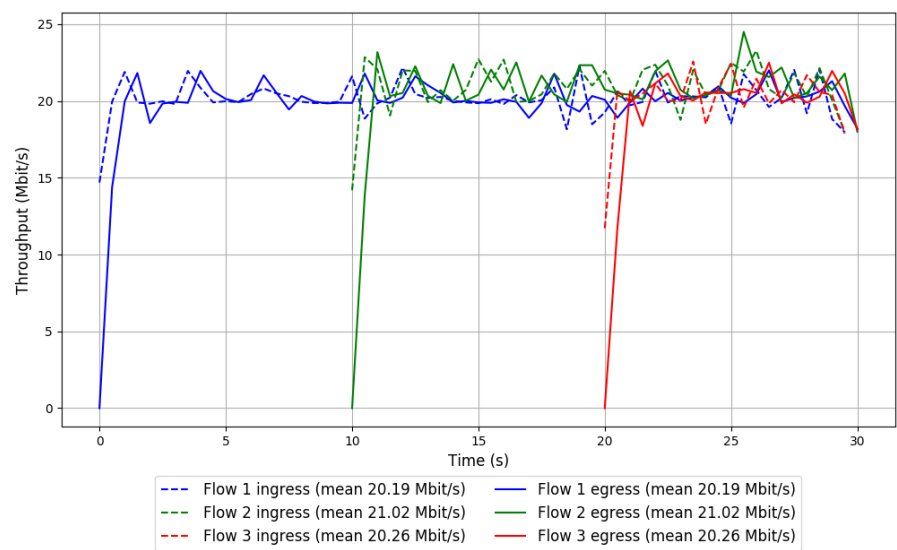
-- Flow 3:

Average throughput: 20.26 Mbit/s

95th percentile per-packet one-way delay: 22.855 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

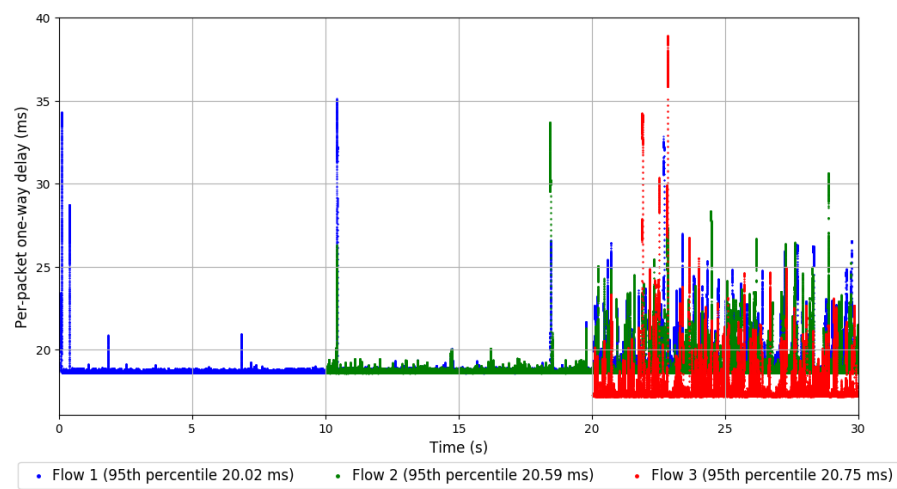
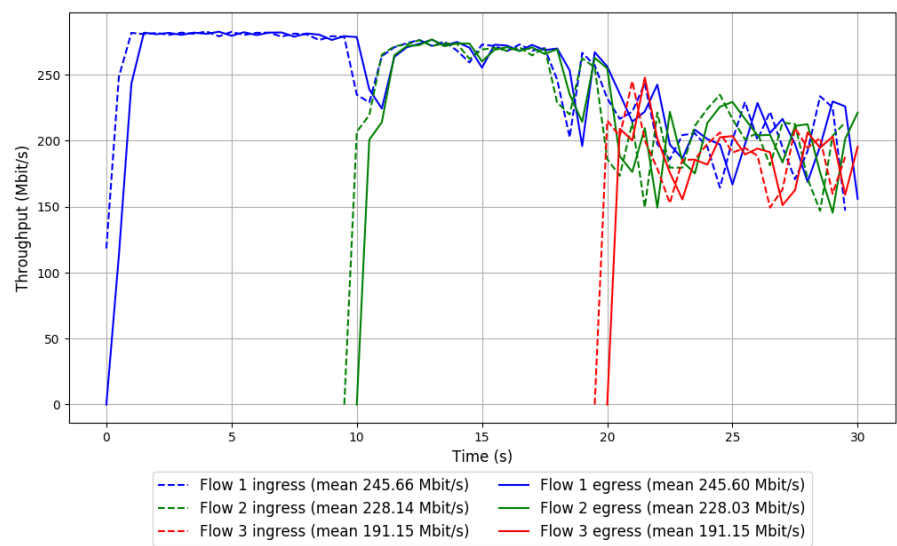


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-30 15:49:05
End at: 2018-05-30 15:49:35
Local clock offset: 0.119 ms
Remote clock offset: -0.226 ms

# Below is generated by plot.py at 2018-05-30 22:00:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 461.21 Mbit/s
95th percentile per-packet one-way delay: 20.318 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 245.60 Mbit/s
95th percentile per-packet one-way delay: 20.020 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 228.03 Mbit/s
95th percentile per-packet one-way delay: 20.587 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 191.15 Mbit/s
95th percentile per-packet one-way delay: 20.748 ms
Loss rate: 0.00%
```

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

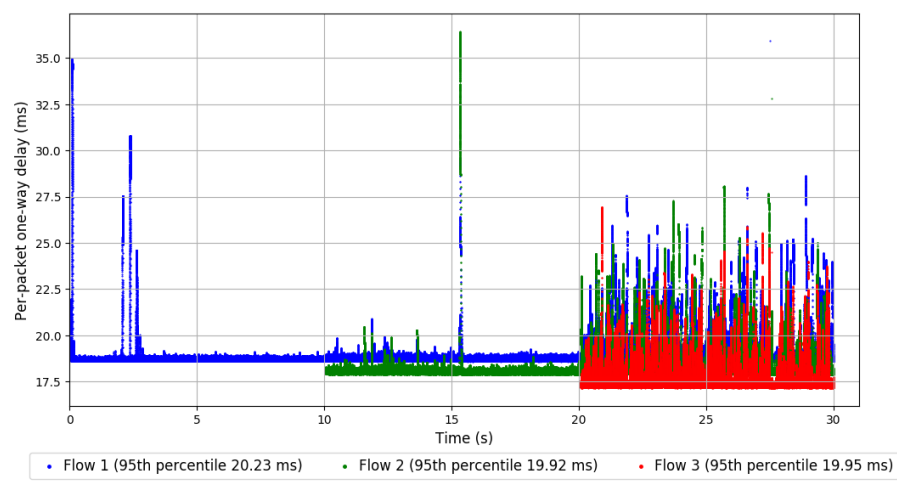
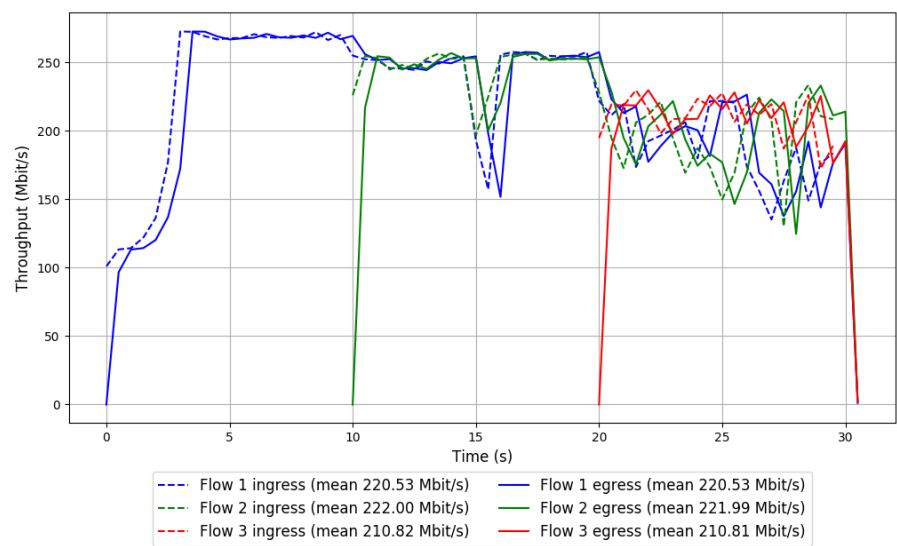


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-30 16:14:19
End at: 2018-05-30 16:14:49
Local clock offset: 0.091 ms
Remote clock offset: -0.486 ms

Below is generated by plot.py at 2018-05-30 22:00:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 438.48 Mbit/s
95th percentile per-packet one-way delay: 20.064 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 220.53 Mbit/s
95th percentile per-packet one-way delay: 20.231 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 221.99 Mbit/s
95th percentile per-packet one-way delay: 19.918 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 210.81 Mbit/s
95th percentile per-packet one-way delay: 19.954 ms
Loss rate: 0.01%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-30 16:39:57

End at: 2018-05-30 16:40:27

Local clock offset: 0.189 ms

Remote clock offset: 0.452 ms

Below is generated by plot.py at 2018-05-30 22:00:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 461.33 Mbit/s

95th percentile per-packet one-way delay: 20.920 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 239.67 Mbit/s

95th percentile per-packet one-way delay: 20.391 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 230.83 Mbit/s

95th percentile per-packet one-way delay: 20.668 ms

Loss rate: 0.01%

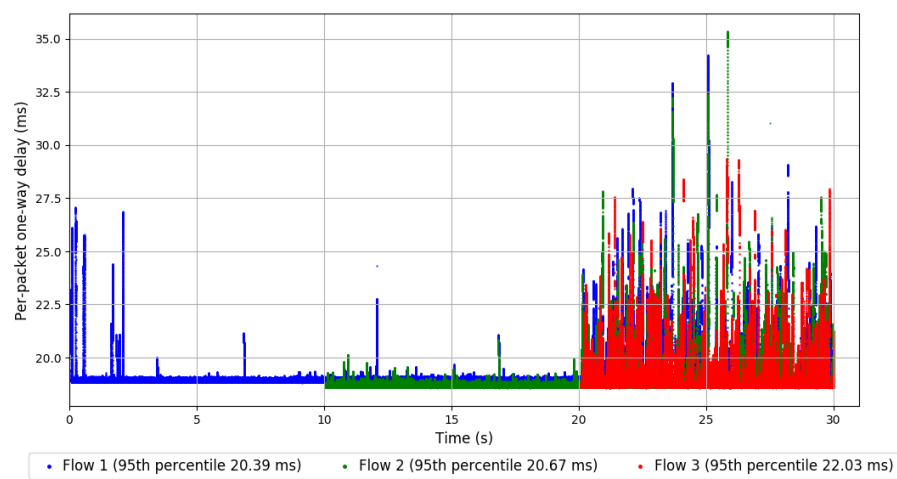
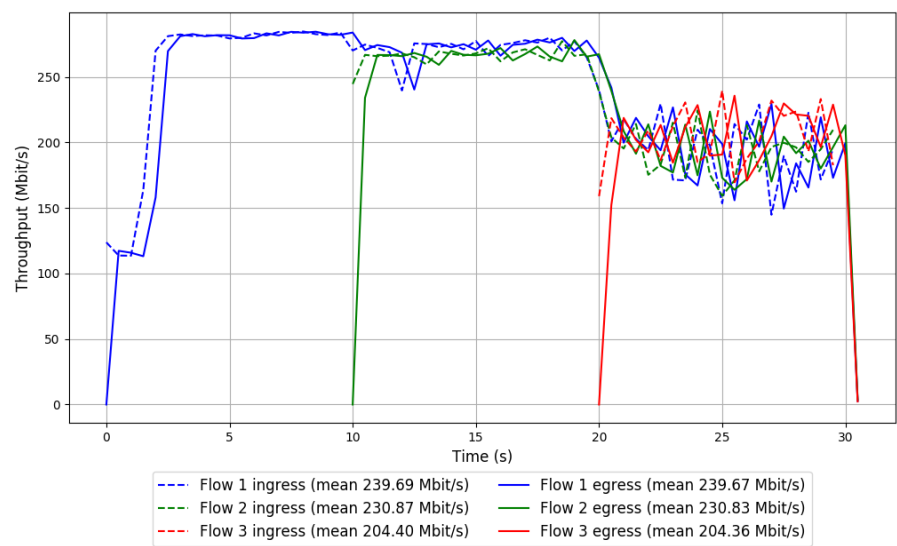
-- Flow 3:

Average throughput: 204.36 Mbit/s

95th percentile per-packet one-way delay: 22.026 ms

Loss rate: 0.02%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-30 17:05:52

End at: 2018-05-30 17:06:22

Local clock offset: 0.351 ms

Remote clock offset: 0.314 ms

Below is generated by plot.py at 2018-05-30 22:00:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 448.08 Mbit/s

95th percentile per-packet one-way delay: 20.803 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 231.92 Mbit/s

95th percentile per-packet one-way delay: 20.128 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 226.52 Mbit/s

95th percentile per-packet one-way delay: 20.478 ms

Loss rate: 0.00%

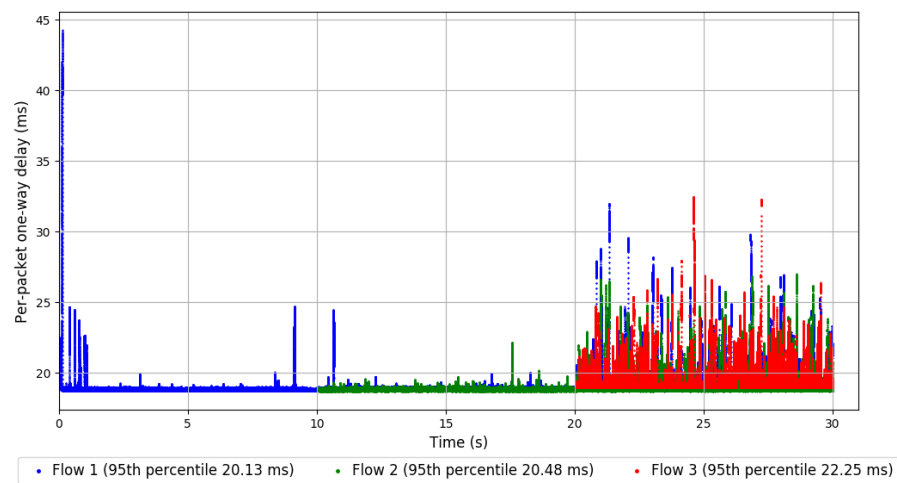
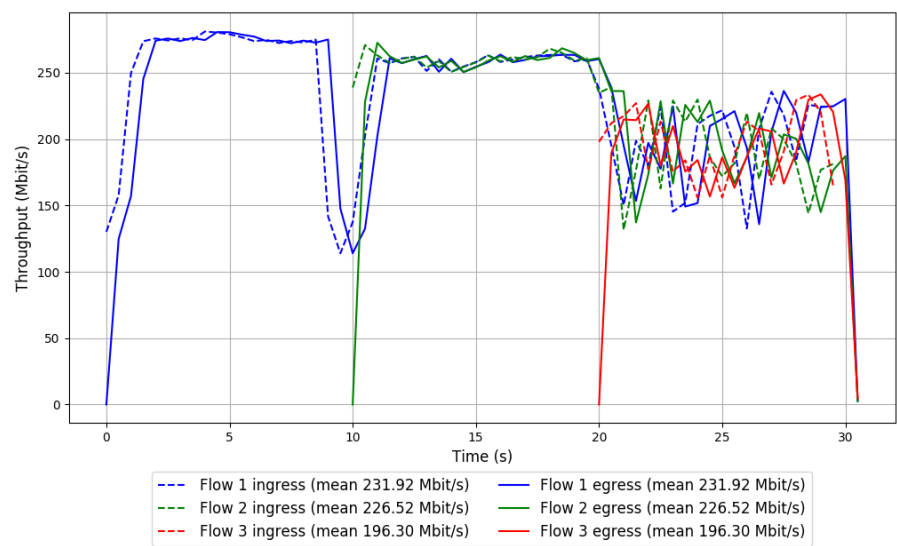
-- Flow 3:

Average throughput: 196.30 Mbit/s

95th percentile per-packet one-way delay: 22.246 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-30 17:31:21

End at: 2018-05-30 17:31:51

Local clock offset: 0.033 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-05-30 22:00:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 428.03 Mbit/s

95th percentile per-packet one-way delay: 20.040 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 199.19 Mbit/s

95th percentile per-packet one-way delay: 18.815 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 232.75 Mbit/s

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

Loss rate: 0.01%

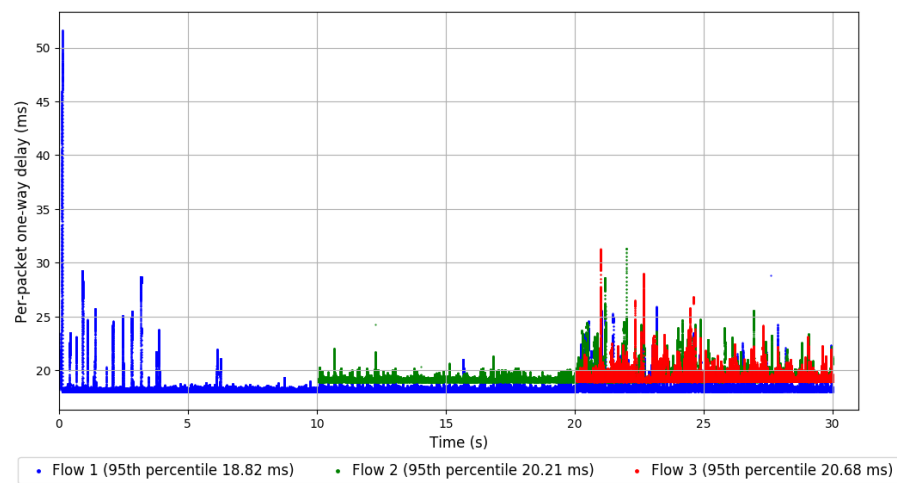
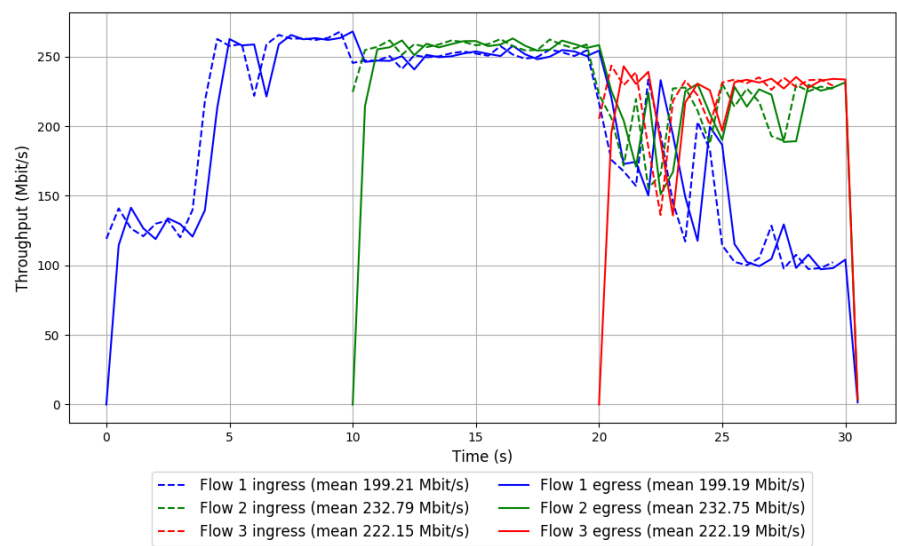
-- Flow 3:

Average throughput: 222.19 Mbit/s

95th percentile per-packet one-way delay: 20.675 ms

Loss rate: 0.01%

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

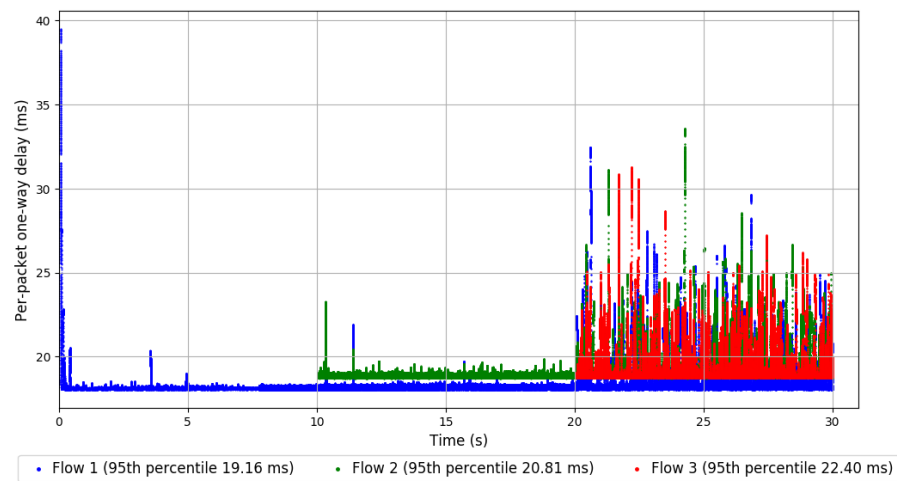
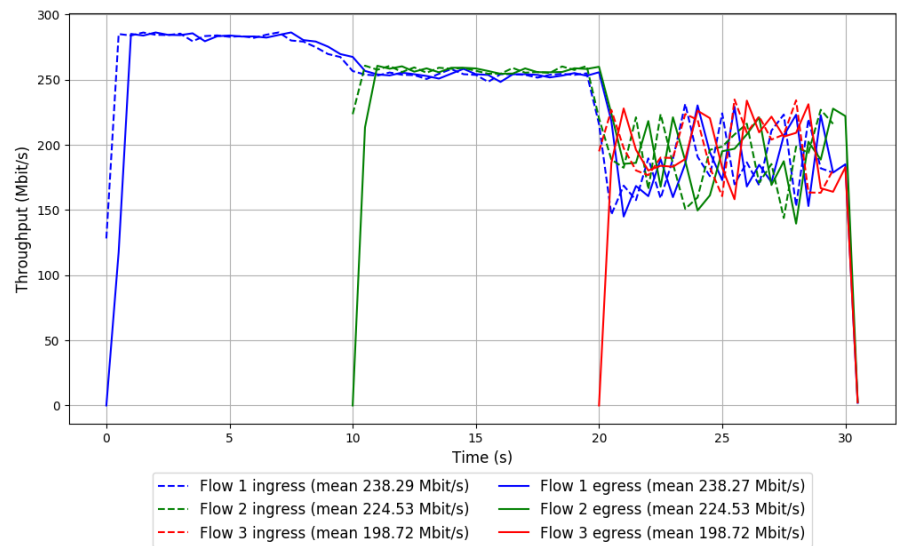


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-30 17:56:56
End at: 2018-05-30 17:57:26
Local clock offset: -0.219 ms
Remote clock offset: -0.424 ms

Below is generated by plot.py at 2018-05-30 22:03:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 453.90 Mbit/s
95th percentile per-packet one-way delay: 20.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 238.27 Mbit/s
95th percentile per-packet one-way delay: 19.164 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 224.53 Mbit/s
95th percentile per-packet one-way delay: 20.809 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 198.72 Mbit/s
95th percentile per-packet one-way delay: 22.398 ms
Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-30 18:22:30

End at: 2018-05-30 18:23:00

Local clock offset: -0.054 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-05-30 22:03:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 431.37 Mbit/s

95th percentile per-packet one-way delay: 19.864 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 246.84 Mbit/s

95th percentile per-packet one-way delay: 19.731 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 170.48 Mbit/s

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

Loss rate: 0.00%

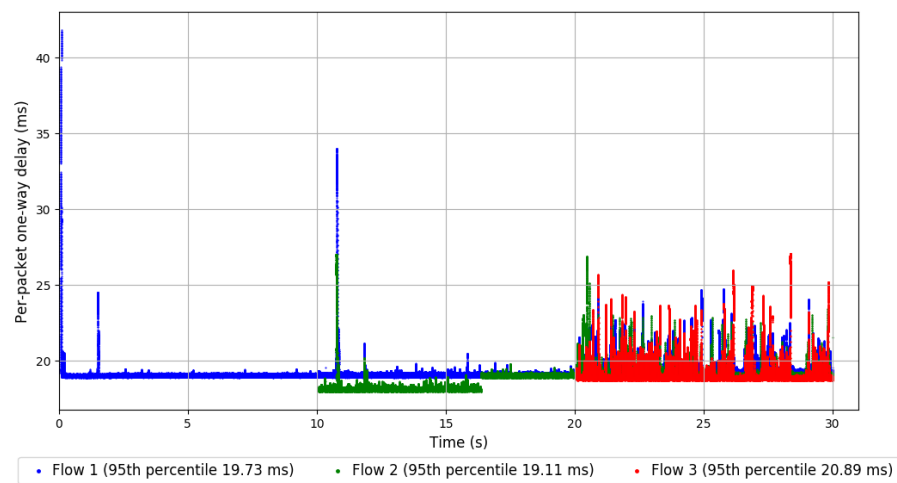
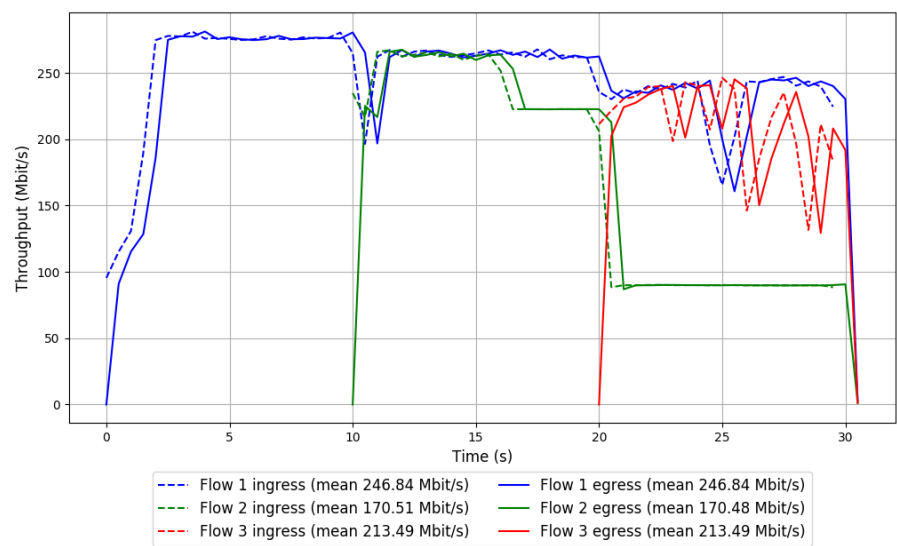
-- Flow 3:

Average throughput: 213.49 Mbit/s

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

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-30 18:48:05

End at: 2018-05-30 18:48:35

Local clock offset: 0.351 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-05-30 22:04:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 445.36 Mbit/s

95th percentile per-packet one-way delay: 20.515 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 232.34 Mbit/s

95th percentile per-packet one-way delay: 19.235 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 228.17 Mbit/s

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

Loss rate: 0.03%

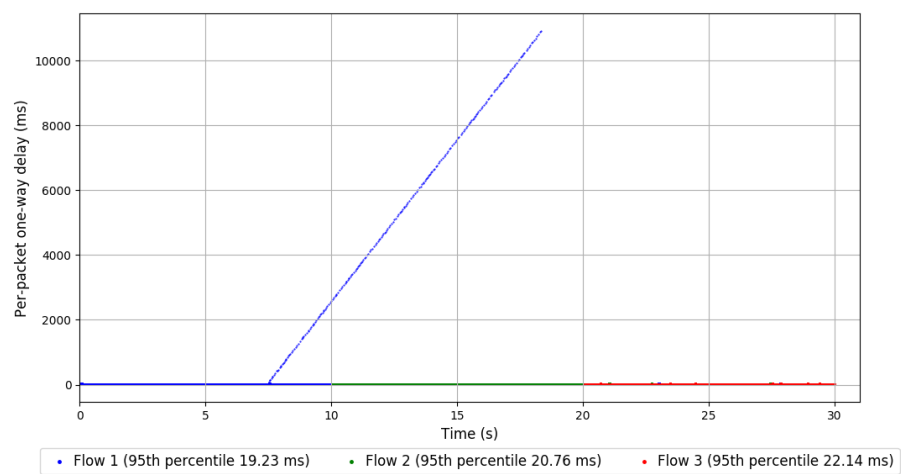
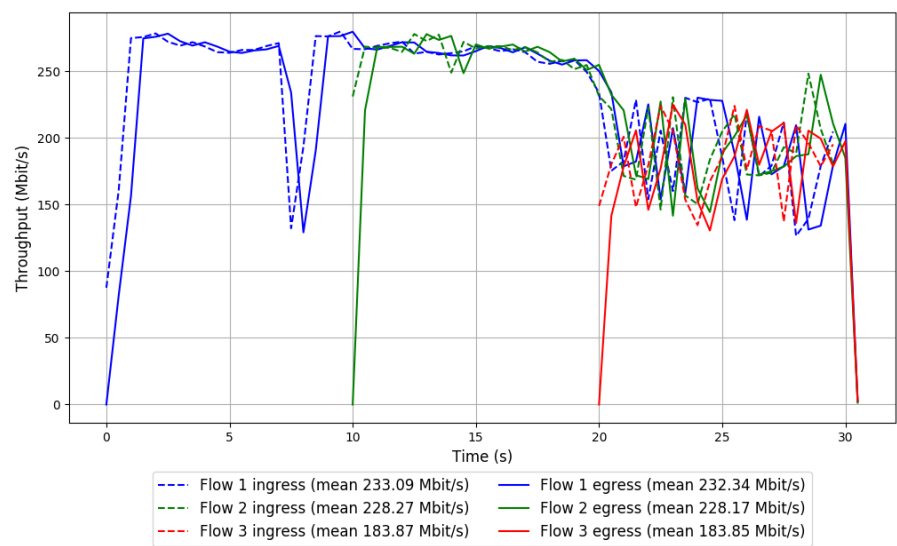
-- Flow 3:

Average throughput: 183.85 Mbit/s

95th percentile per-packet one-way delay: 22.138 ms

Loss rate: 0.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-30 19:13:39

End at: 2018-05-30 19:14:09

Local clock offset: -0.517 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-05-30 22:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 445.55 Mbit/s

95th percentile per-packet one-way delay: 20.899 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 234.08 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 217.22 Mbit/s

95th percentile per-packet one-way delay: 20.843 ms

Loss rate: 0.00%

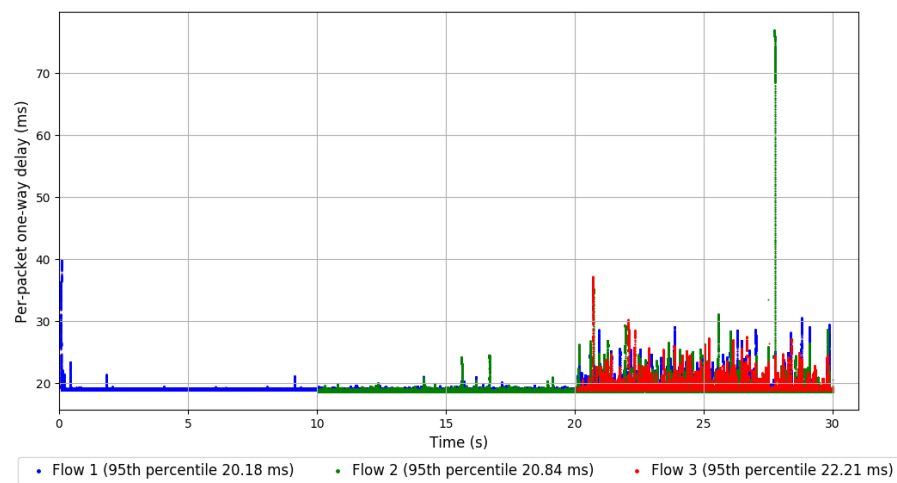
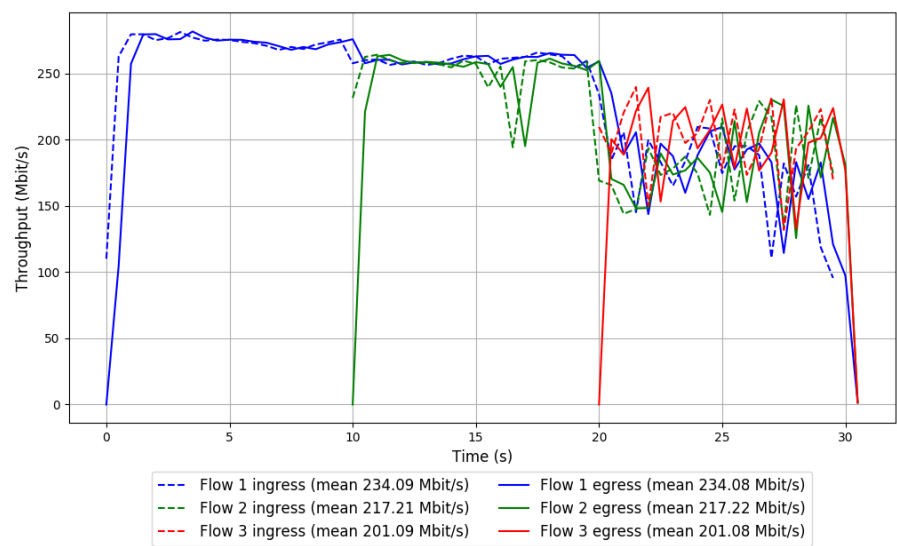
-- Flow 3:

Average throughput: 201.08 Mbit/s

95th percentile per-packet one-way delay: 22.207 ms

Loss rate: 0.01%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-30 19:39:17

End at: 2018-05-30 19:39:47

Local clock offset: -1.149 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-05-30 22:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 429.83 Mbit/s

95th percentile per-packet one-way delay: 21.277 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 217.36 Mbit/s

95th percentile per-packet one-way delay: 20.565 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 228.98 Mbit/s

95th percentile per-packet one-way delay: 21.058 ms

Loss rate: 0.00%

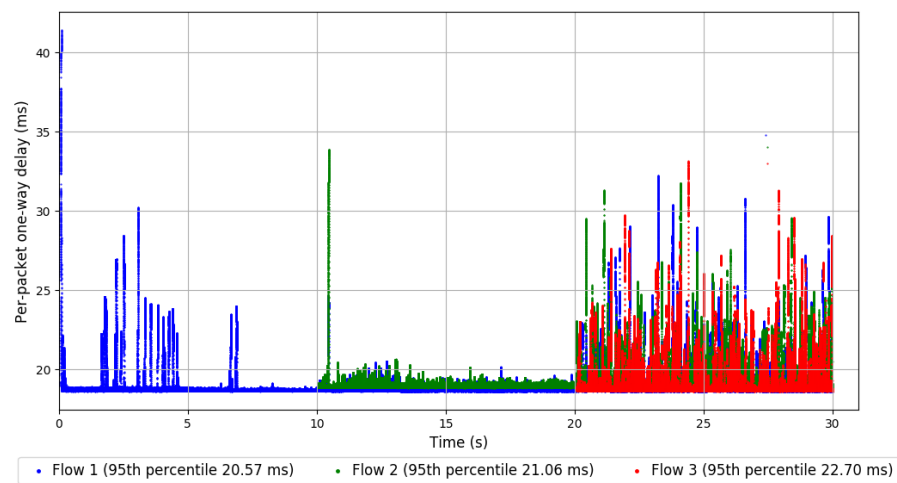
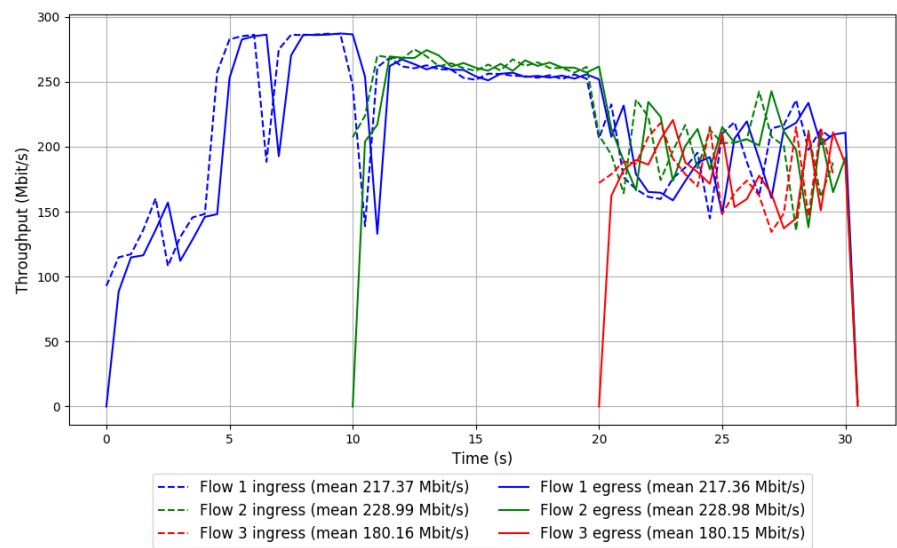
-- Flow 3:

Average throughput: 180.15 Mbit/s

95th percentile per-packet one-way delay: 22.696 ms

Loss rate: 0.00%

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

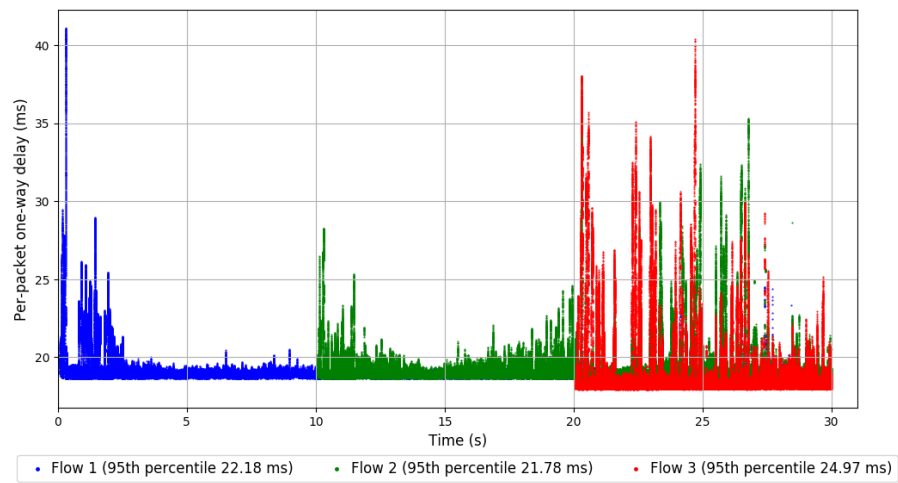
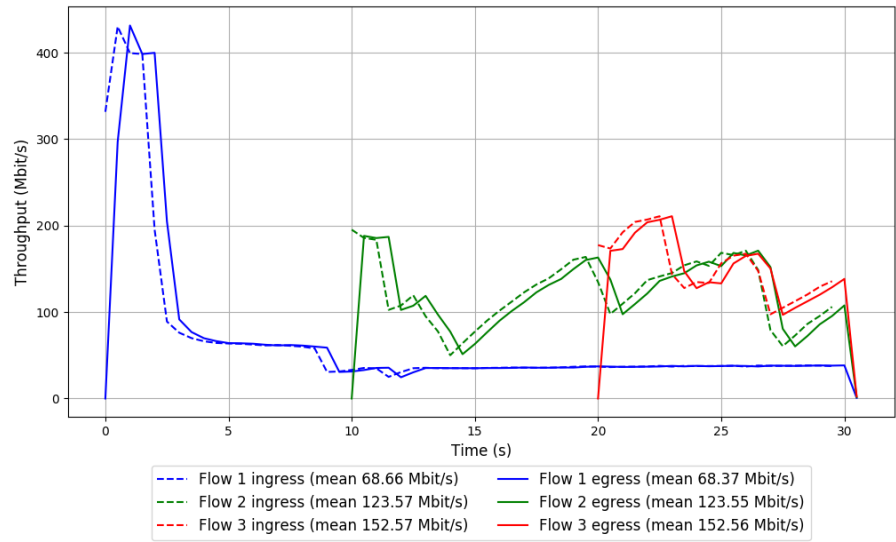


Run 1: Statistics of TCP Vegas

Start at: 2018-05-30 15:57:19
End at: 2018-05-30 15:57:49
Local clock offset: 0.095 ms
Remote clock offset: -0.499 ms

Below is generated by plot.py at 2018-05-30 22:10:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 201.40 Mbit/s
95th percentile per-packet one-way delay: 22.569 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 68.37 Mbit/s
95th percentile per-packet one-way delay: 22.180 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 123.55 Mbit/s
95th percentile per-packet one-way delay: 21.777 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 152.56 Mbit/s
95th percentile per-packet one-way delay: 24.972 ms
Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link

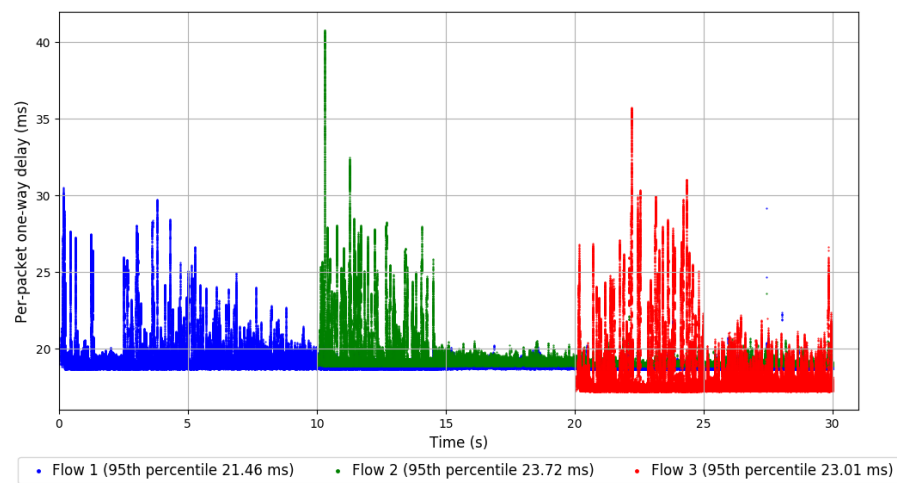
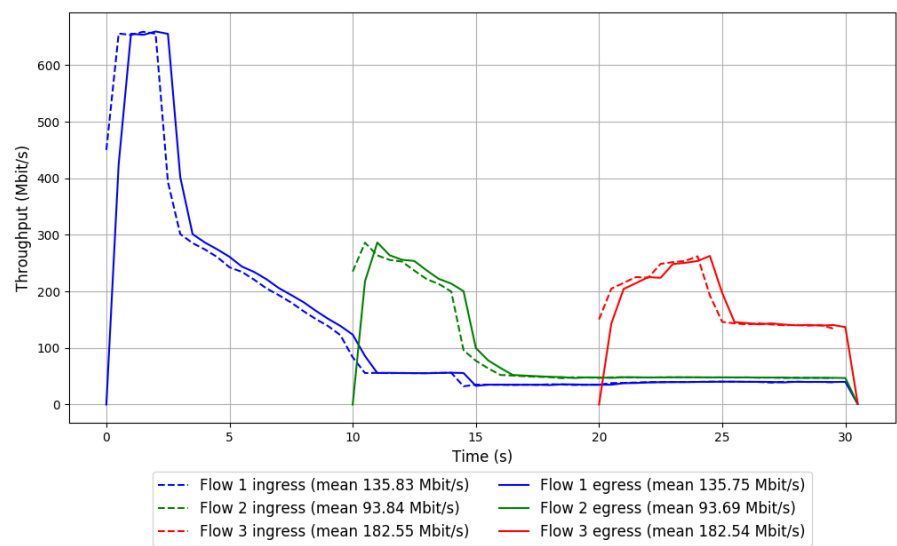


Run 2: Statistics of TCP Vegas

Start at: 2018-05-30 16:22:36
End at: 2018-05-30 16:23:06
Local clock offset: 0.058 ms
Remote clock offset: -0.198 ms

Below is generated by plot.py at 2018-05-30 22:10:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 258.86 Mbit/s
95th percentile per-packet one-way delay: 22.513 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 135.75 Mbit/s
95th percentile per-packet one-way delay: 21.458 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 23.719 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 182.54 Mbit/s
95th percentile per-packet one-way delay: 23.014 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-30 16:48:27

End at: 2018-05-30 16:48:57

Local clock offset: 0.071 ms

Remote clock offset: 0.709 ms

Below is generated by plot.py at 2018-05-30 22:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.46 Mbit/s

95th percentile per-packet one-way delay: 23.395 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 164.23 Mbit/s

95th percentile per-packet one-way delay: 22.770 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 70.12 Mbit/s

95th percentile per-packet one-way delay: 20.046 ms

Loss rate: 0.08%

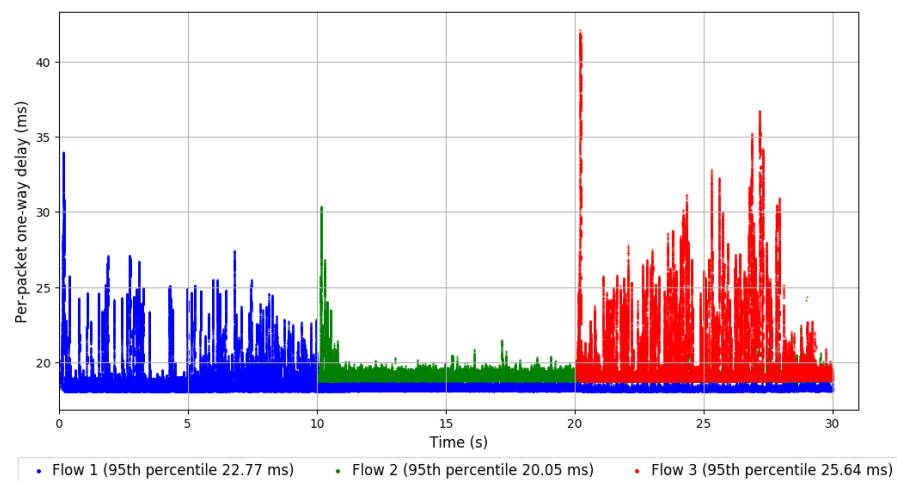
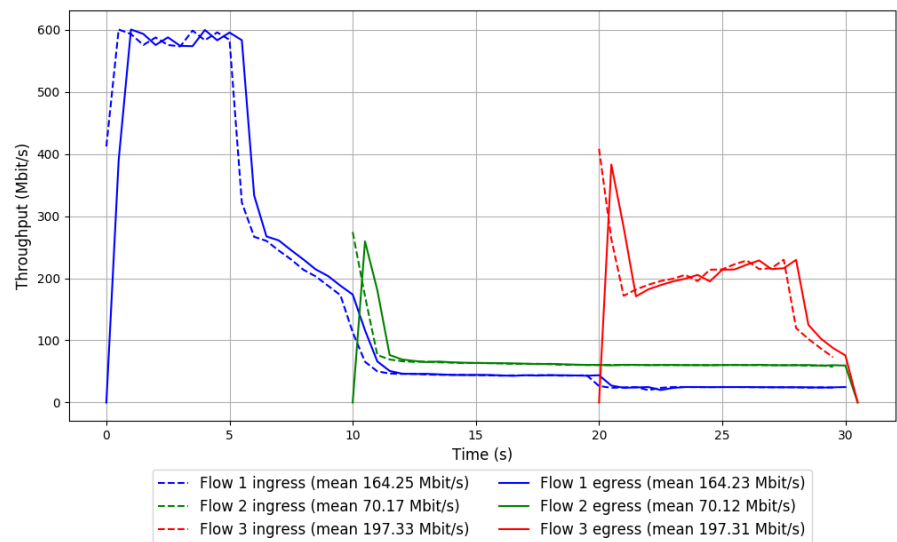
-- Flow 3:

Average throughput: 197.31 Mbit/s

95th percentile per-packet one-way delay: 25.639 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-30 17:14:07

End at: 2018-05-30 17:14:37

Local clock offset: 0.472 ms

Remote clock offset: 0.311 ms

Below is generated by plot.py at 2018-05-30 22:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.97 Mbit/s

95th percentile per-packet one-way delay: 22.986 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 143.03 Mbit/s

95th percentile per-packet one-way delay: 22.905 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 230.95 Mbit/s

95th percentile per-packet one-way delay: 21.955 ms

Loss rate: 0.03%

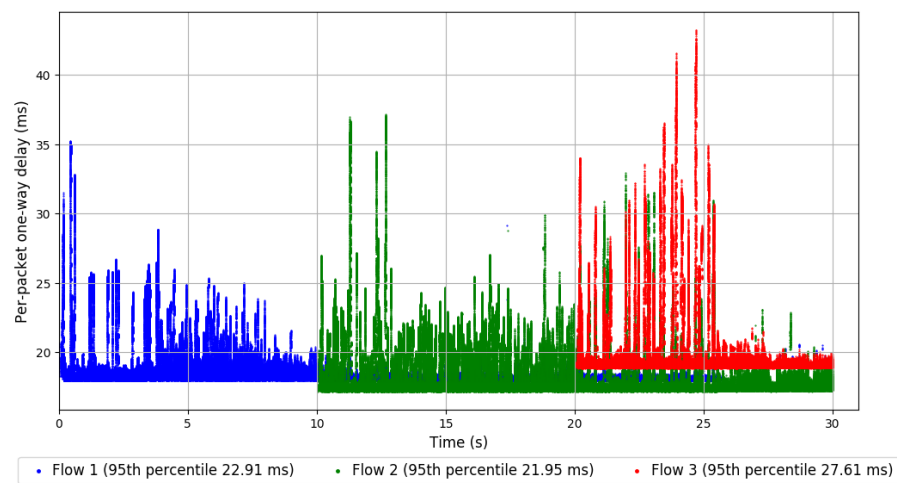
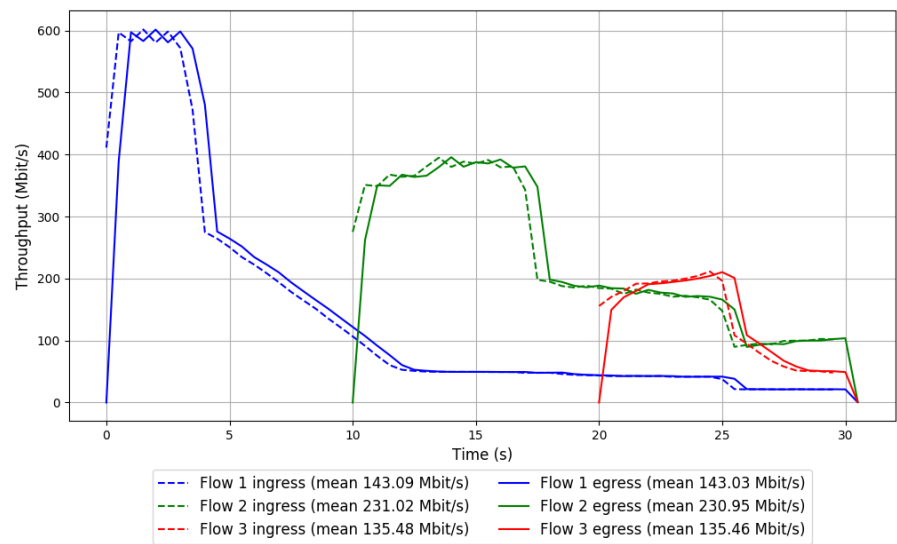
-- Flow 3:

Average throughput: 135.46 Mbit/s

95th percentile per-packet one-way delay: 27.607 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-30 17:39:41

End at: 2018-05-30 17:40:11

Local clock offset: -0.074 ms

Remote clock offset: -0.2 ms

Below is generated by plot.py at 2018-05-30 22:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.59 Mbit/s

95th percentile per-packet one-way delay: 23.871 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 138.27 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 212.89 Mbit/s

95th percentile per-packet one-way delay: 23.981 ms

Loss rate: 0.09%

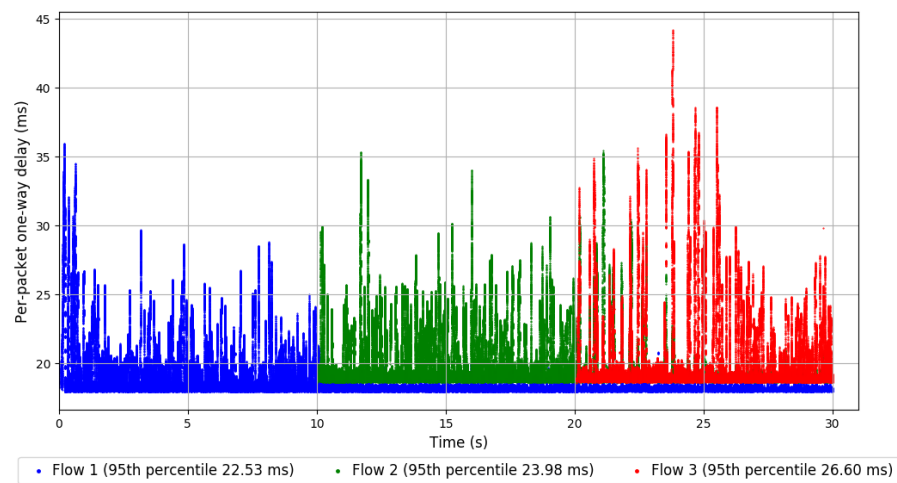
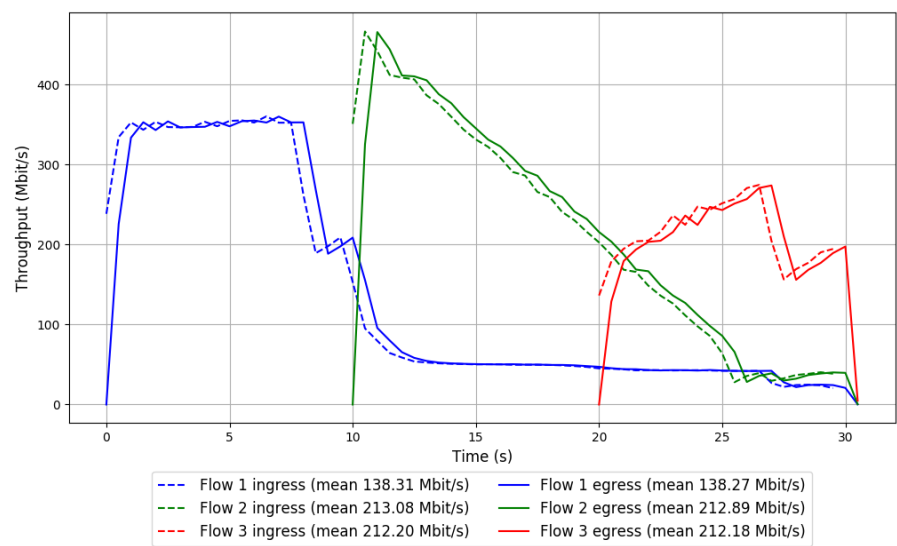
-- Flow 3:

Average throughput: 212.18 Mbit/s

95th percentile per-packet one-way delay: 26.600 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link

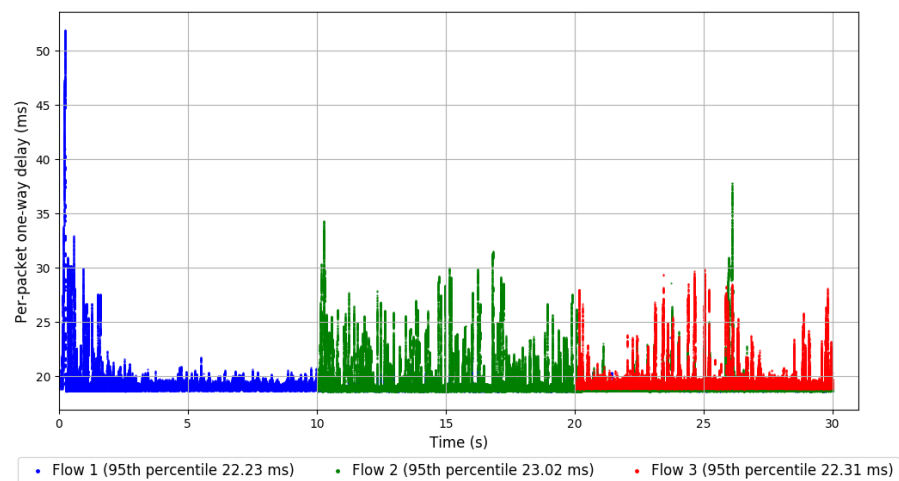
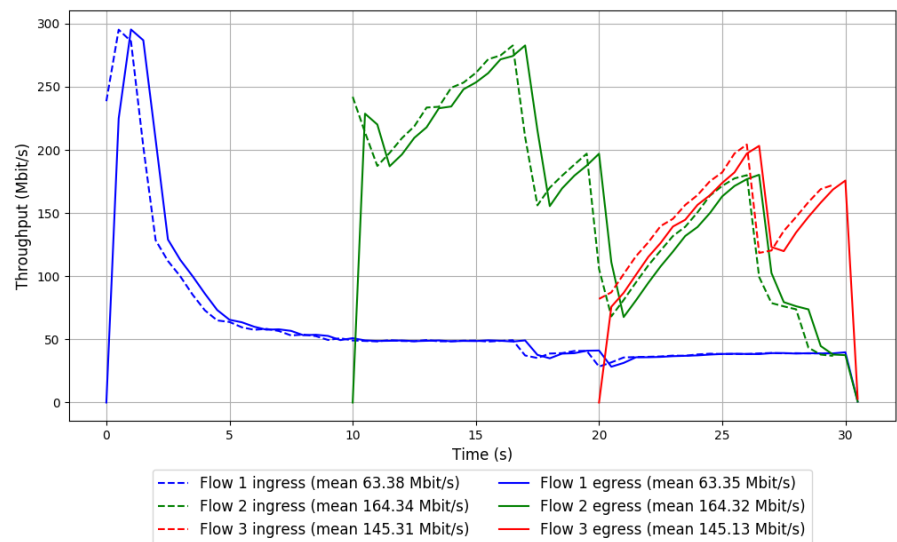


Run 6: Statistics of TCP Vegas

Start at: 2018-05-30 18:05:10
End at: 2018-05-30 18:05:40
Local clock offset: -0.072 ms
Remote clock offset: -0.356 ms

Below is generated by plot.py at 2018-05-30 22:10:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 221.13 Mbit/s
95th percentile per-packet one-way delay: 22.720 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 63.35 Mbit/s
95th percentile per-packet one-way delay: 22.227 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 164.32 Mbit/s
95th percentile per-packet one-way delay: 23.020 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 145.13 Mbit/s
95th percentile per-packet one-way delay: 22.314 ms
Loss rate: 0.11%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-30 18:30:47

End at: 2018-05-30 18:31:17

Local clock offset: 0.129 ms

Remote clock offset: 0.182 ms

Below is generated by plot.py at 2018-05-30 22:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 248.87 Mbit/s

95th percentile per-packet one-way delay: 23.463 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 145.74 Mbit/s

95th percentile per-packet one-way delay: 22.870 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 123.56 Mbit/s

95th percentile per-packet one-way delay: 24.099 ms

Loss rate: 0.02%

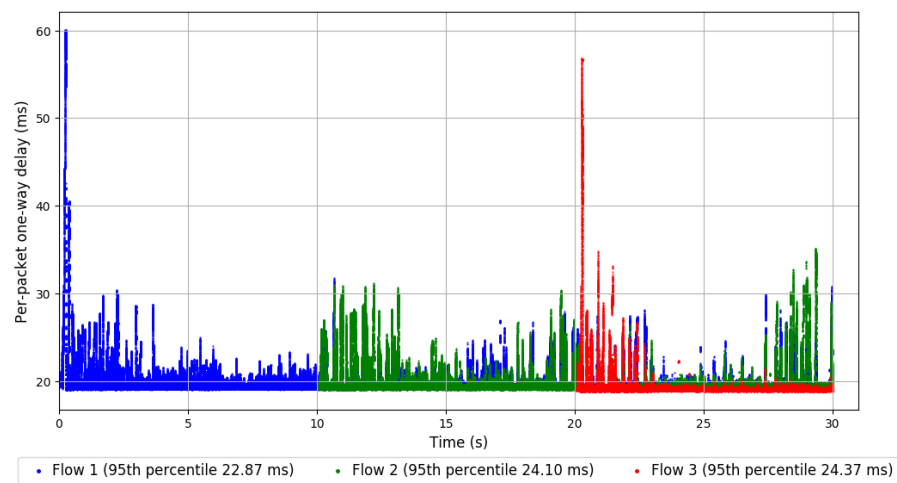
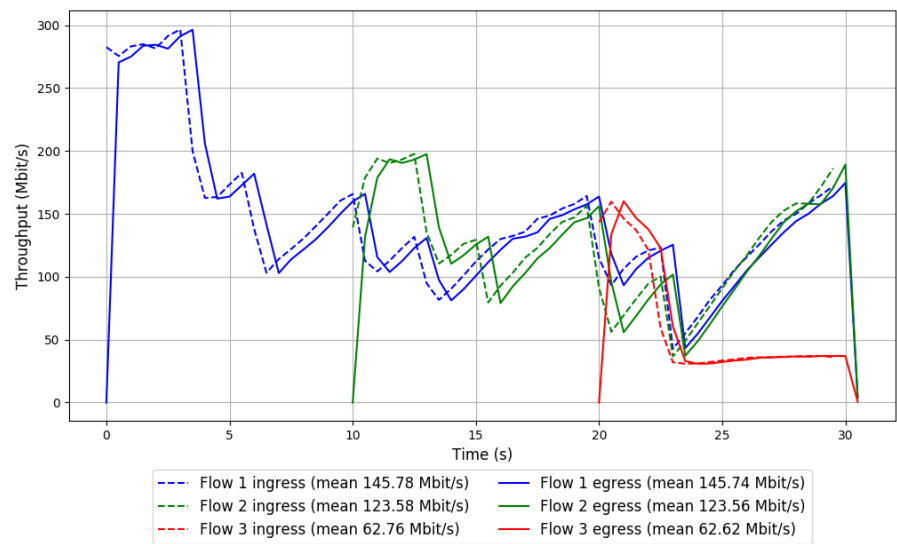
-- Flow 3:

Average throughput: 62.62 Mbit/s

95th percentile per-packet one-way delay: 24.372 ms

Loss rate: 0.23%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-30 18:56:25

End at: 2018-05-30 18:56:55

Local clock offset: 0.095 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-05-30 22:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.02 Mbit/s

95th percentile per-packet one-way delay: 23.140 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 117.41 Mbit/s

95th percentile per-packet one-way delay: 21.912 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 127.62 Mbit/s

95th percentile per-packet one-way delay: 24.969 ms

Loss rate: 0.03%

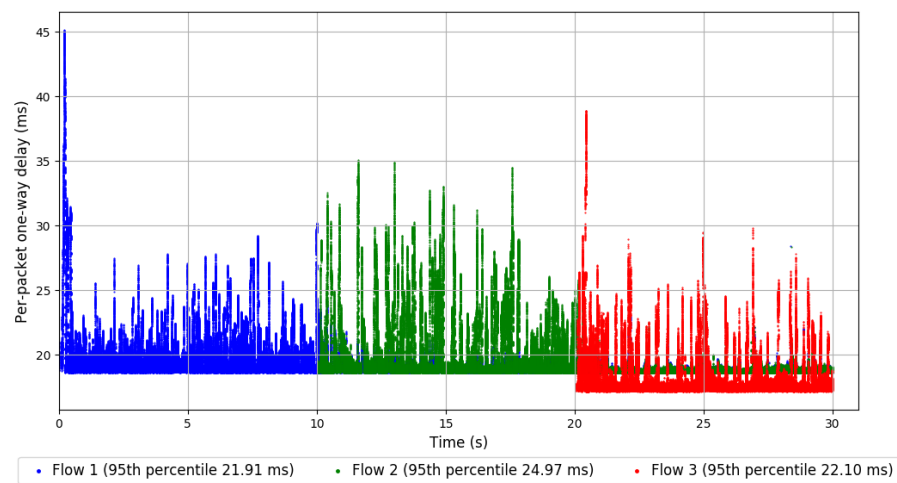
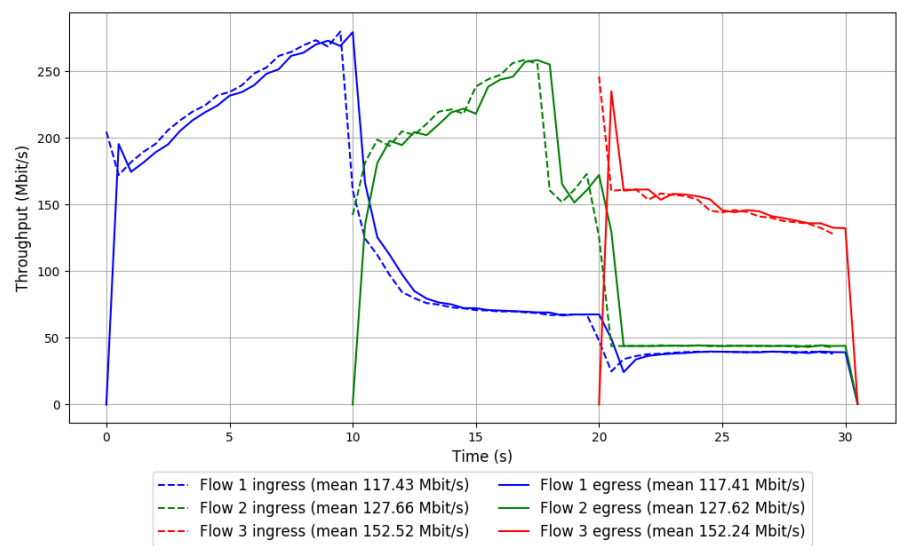
-- Flow 3:

Average throughput: 152.24 Mbit/s

95th percentile per-packet one-way delay: 22.101 ms

Loss rate: 0.17%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-30 19:21:55

End at: 2018-05-30 19:22:25

Local clock offset: -0.881 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-05-30 22:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.67 Mbit/s

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

Loss rate: 0.02%

-- Flow 1:

Average throughput: 185.26 Mbit/s

95th percentile per-packet one-way delay: 24.920 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 113.07 Mbit/s

95th percentile per-packet one-way delay: 25.113 ms

Loss rate: 0.01%

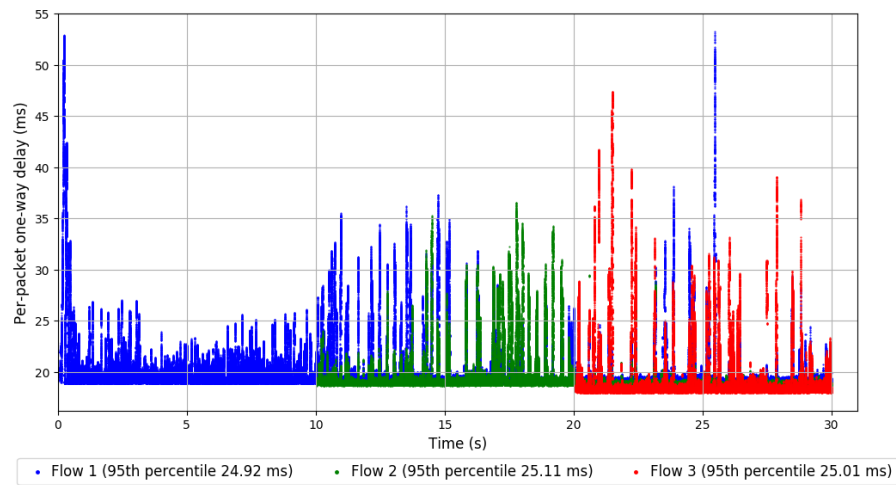
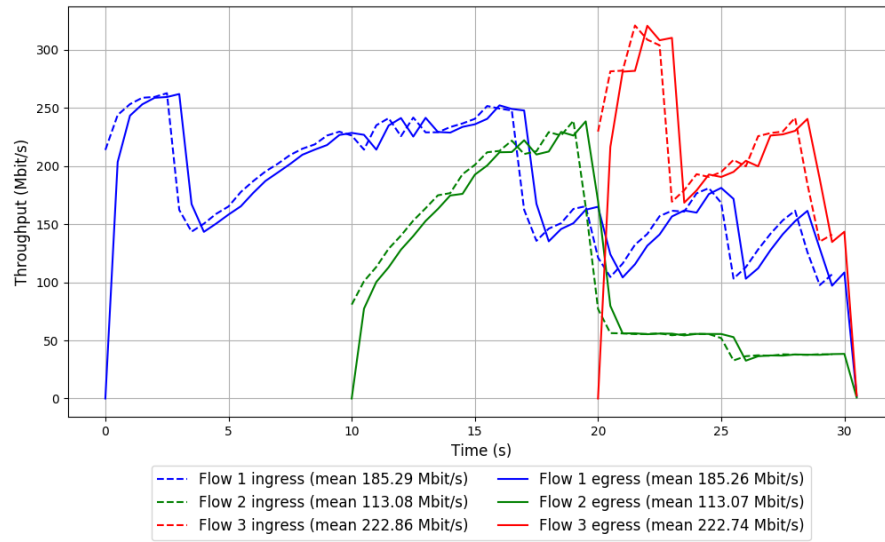
-- Flow 3:

Average throughput: 222.74 Mbit/s

95th percentile per-packet one-way delay: 25.014 ms

Loss rate: 0.05%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-30 19:47:31

End at: 2018-05-30 19:48:01

Local clock offset: -1.354 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2018-05-30 22:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 212.65 Mbit/s

95th percentile per-packet one-way delay: 23.692 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 67.64 Mbit/s

95th percentile per-packet one-way delay: 21.379 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 184.44 Mbit/s

95th percentile per-packet one-way delay: 24.703 ms

Loss rate: 0.05%

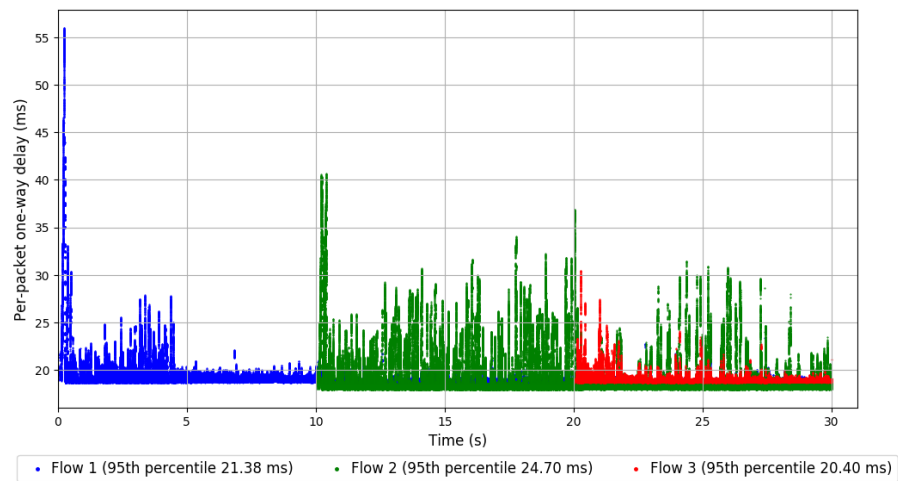
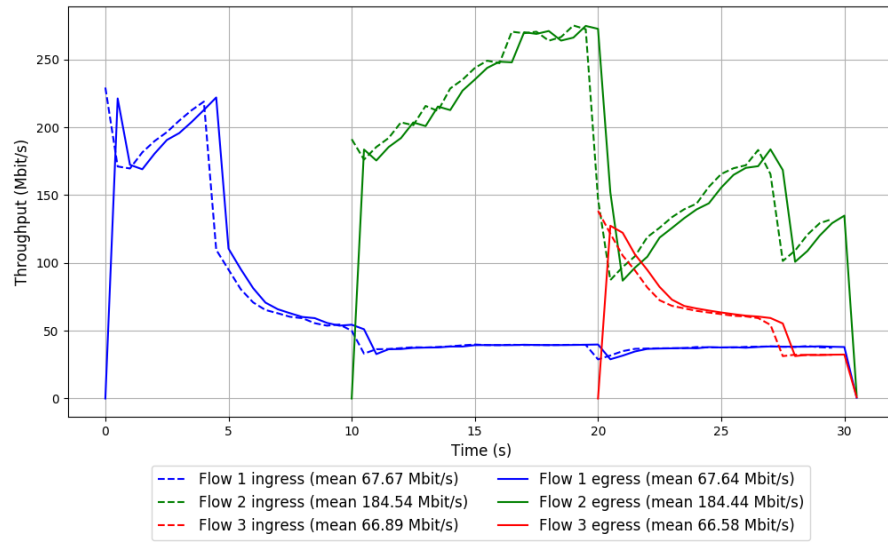
-- Flow 3:

Average throughput: 66.58 Mbit/s

95th percentile per-packet one-way delay: 20.403 ms

Loss rate: 0.45%

Run 10: Report of TCP Vegas — Data Link

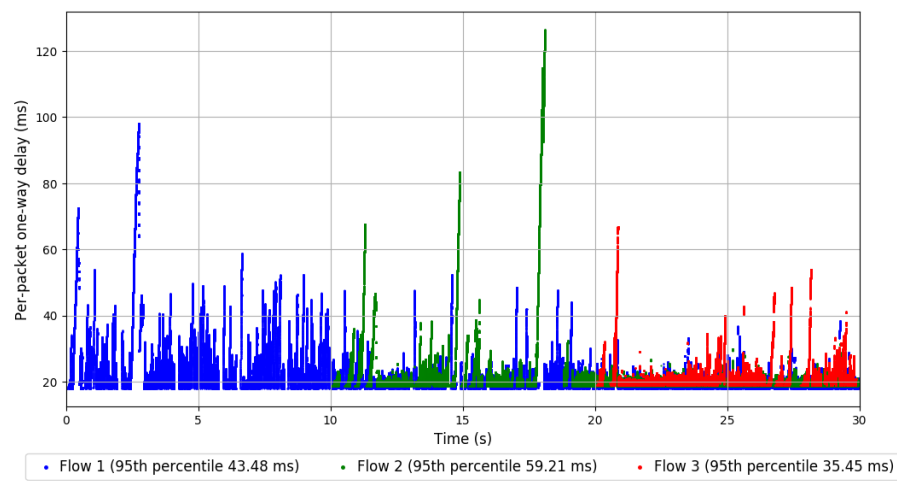
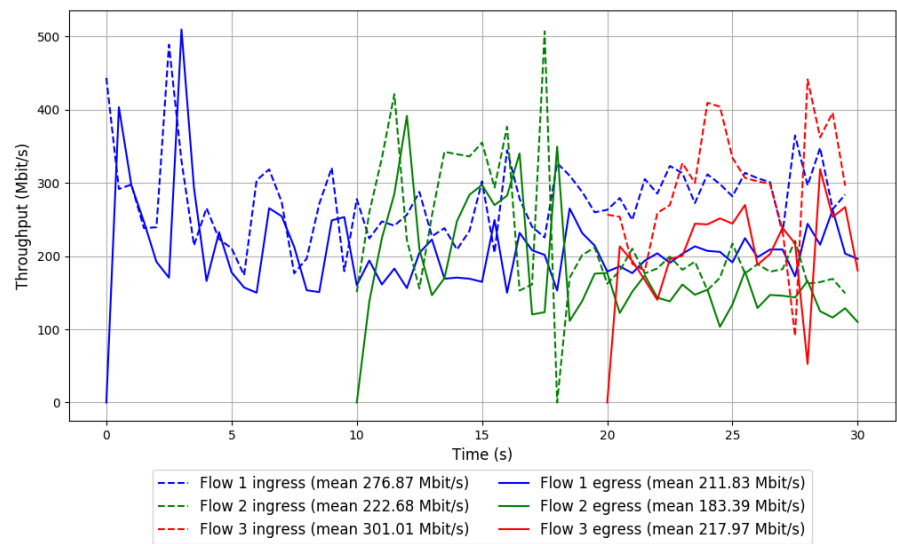


Run 1: Statistics of Verus

Start at: 2018-05-30 16:06:34
End at: 2018-05-30 16:07:04
Local clock offset: 0.092 ms
Remote clock offset: -0.575 ms

Below is generated by plot.py at 2018-05-30 22:12:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 405.33 Mbit/s
95th percentile per-packet one-way delay: 44.898 ms
Loss rate: 22.60%
-- Flow 1:
Average throughput: 211.83 Mbit/s
95th percentile per-packet one-way delay: 43.477 ms
Loss rate: 23.49%
-- Flow 2:
Average throughput: 183.39 Mbit/s
95th percentile per-packet one-way delay: 59.208 ms
Loss rate: 17.64%
-- Flow 3:
Average throughput: 217.97 Mbit/s
95th percentile per-packet one-way delay: 35.446 ms
Loss rate: 27.57%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-30 16:31:58

End at: 2018-05-30 16:32:28

Local clock offset: 0.157 ms

Remote clock offset: 0.261 ms

Below is generated by plot.py at 2018-05-30 22:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 399.13 Mbit/s

95th percentile per-packet one-way delay: 36.633 ms

Loss rate: 28.72%

-- Flow 1:

Average throughput: 195.60 Mbit/s

95th percentile per-packet one-way delay: 45.518 ms

Loss rate: 26.59%

-- Flow 2:

Average throughput: 239.35 Mbit/s

95th percentile per-packet one-way delay: 31.045 ms

Loss rate: 31.68%

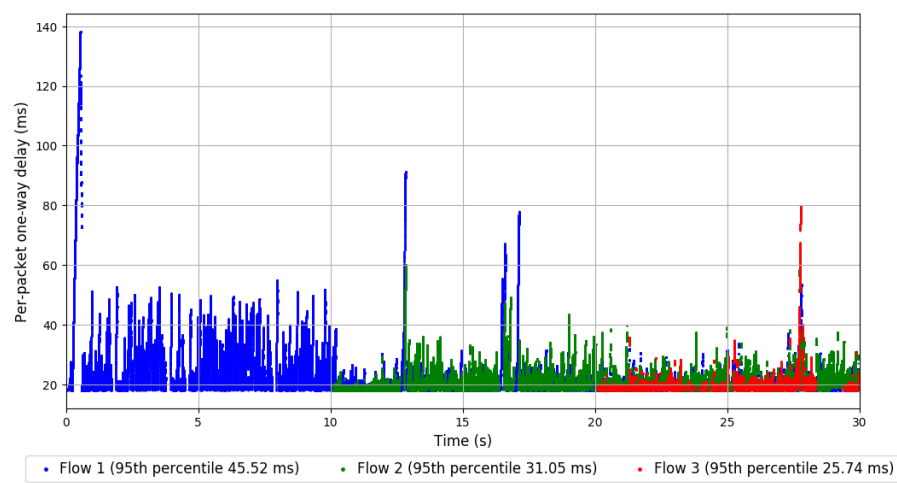
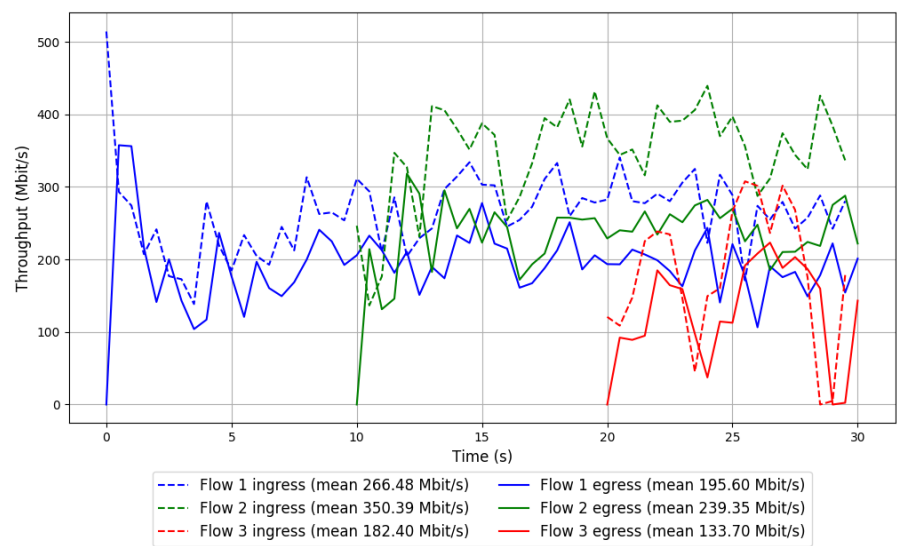
-- Flow 3:

Average throughput: 133.70 Mbit/s

95th percentile per-packet one-way delay: 25.743 ms

Loss rate: 26.65%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-30 16:57:56

End at: 2018-05-30 16:58:26

Local clock offset: 0.314 ms

Remote clock offset: 0.589 ms

Below is generated by plot.py at 2018-05-30 22:13:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 433.13 Mbit/s

95th percentile per-packet one-way delay: 34.864 ms

Loss rate: 18.15%

-- Flow 1:

Average throughput: 237.80 Mbit/s

95th percentile per-packet one-way delay: 31.197 ms

Loss rate: 17.83%

-- Flow 2:

Average throughput: 200.15 Mbit/s

95th percentile per-packet one-way delay: 42.136 ms

Loss rate: 17.60%

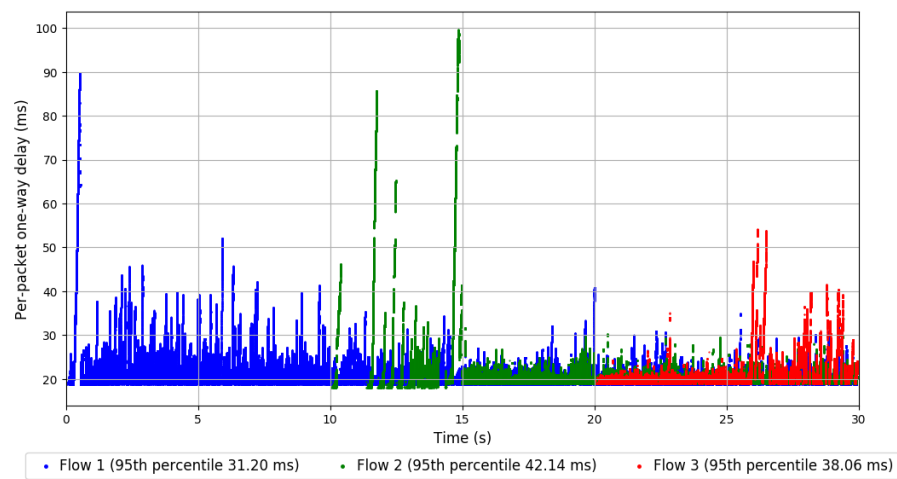
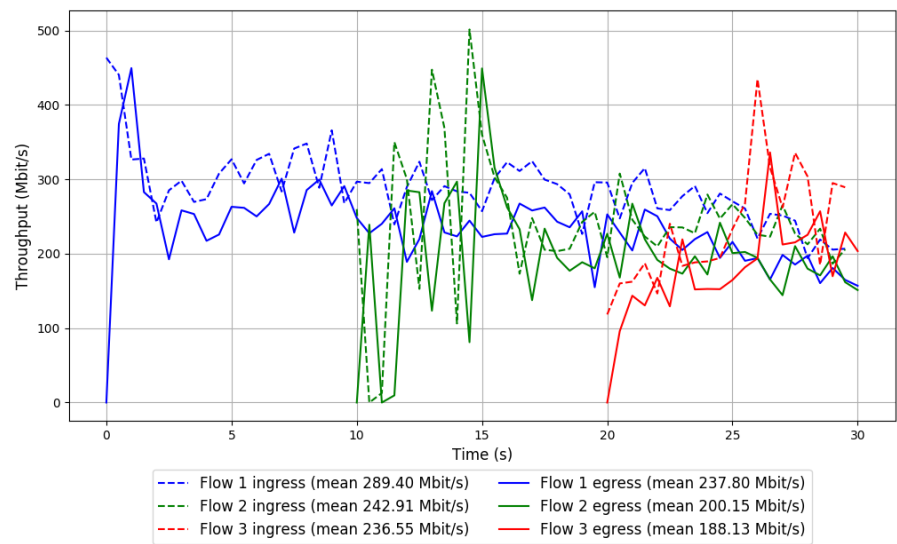
-- Flow 3:

Average throughput: 188.13 Mbit/s

95th percentile per-packet one-way delay: 38.060 ms

Loss rate: 20.49%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-30 17:23:32

End at: 2018-05-30 17:24:02

Local clock offset: 0.441 ms

Remote clock offset: 0.367 ms

Below is generated by plot.py at 2018-05-30 22:13:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 390.08 Mbit/s

95th percentile per-packet one-way delay: 46.244 ms

Loss rate: 19.94%

-- Flow 1:

Average throughput: 205.03 Mbit/s

95th percentile per-packet one-way delay: 37.214 ms

Loss rate: 21.83%

-- Flow 2:

Average throughput: 175.54 Mbit/s

95th percentile per-packet one-way delay: 61.090 ms

Loss rate: 14.65%

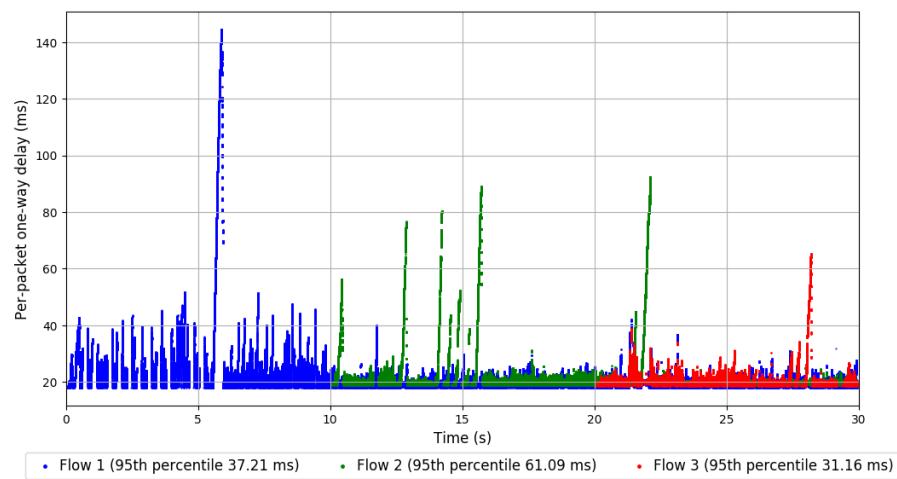
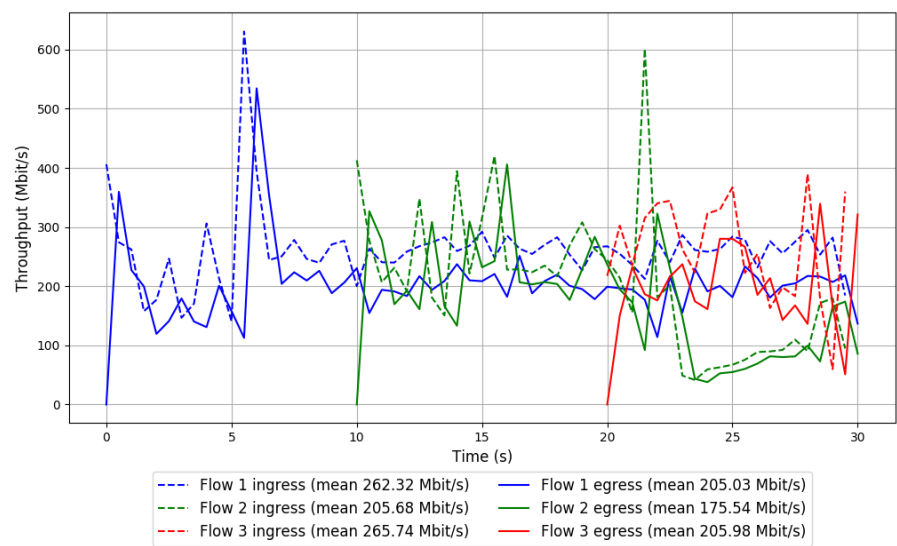
-- Flow 3:

Average throughput: 205.98 Mbit/s

95th percentile per-packet one-way delay: 31.155 ms

Loss rate: 22.50%

Run 4: Report of Verus — Data Link

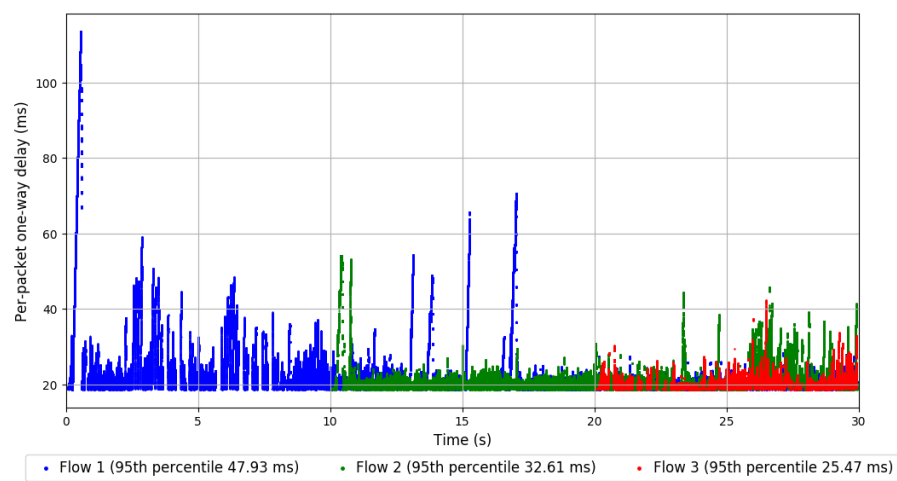
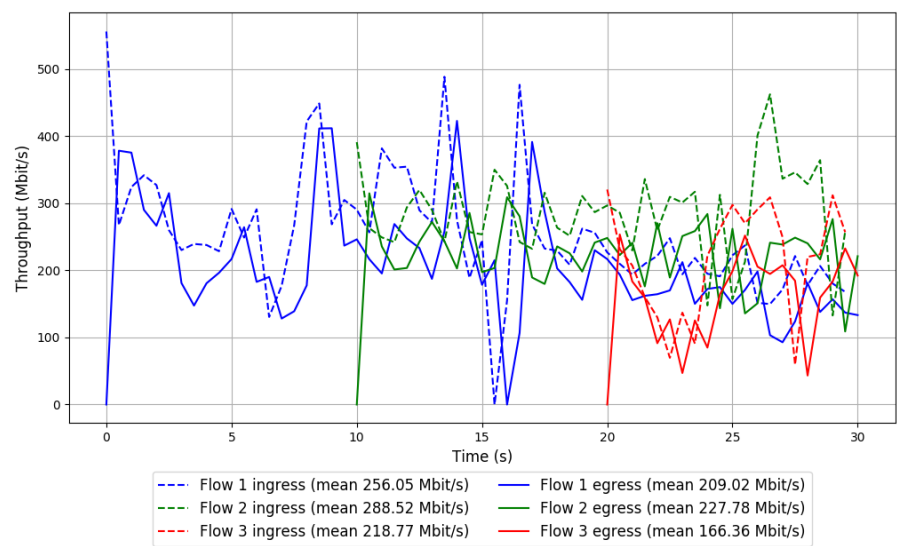


Run 5: Statistics of Verus

Start at: 2018-05-30 17:49:01
End at: 2018-05-30 17:49:31
Local clock offset: -0.242 ms
Remote clock offset: -0.347 ms

Below is generated by plot.py at 2018-05-30 22:14:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 415.60 Mbit/s
95th percentile per-packet one-way delay: 38.762 ms
Loss rate: 20.12%
-- Flow 1:
Average throughput: 209.02 Mbit/s
95th percentile per-packet one-way delay: 47.928 ms
Loss rate: 18.37%
-- Flow 2:
Average throughput: 227.78 Mbit/s
95th percentile per-packet one-way delay: 32.614 ms
Loss rate: 21.05%
-- Flow 3:
Average throughput: 166.36 Mbit/s
95th percentile per-packet one-way delay: 25.469 ms
Loss rate: 23.85%

Run 5: Report of Verus — Data Link

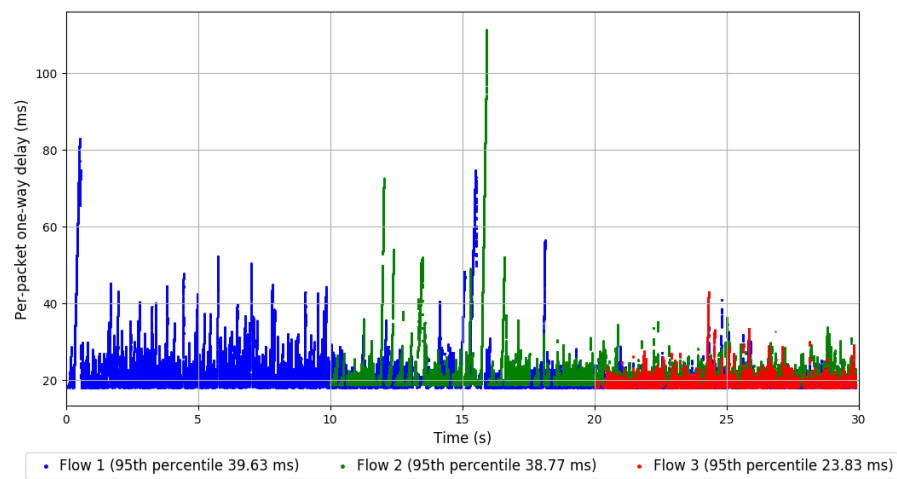
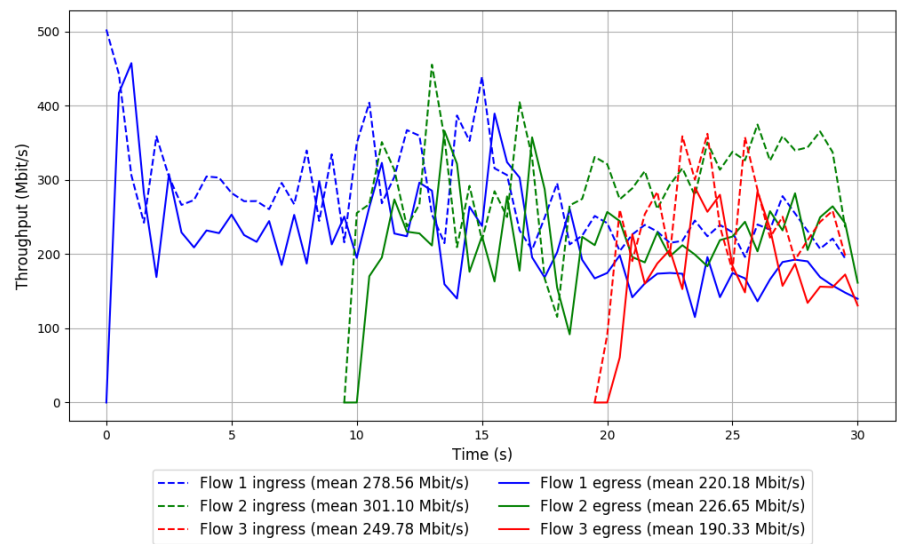


Run 6: Statistics of Verus

Start at: 2018-05-30 18:14:34
End at: 2018-05-30 18:15:04
Local clock offset: 0.044 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-05-30 22:14:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 434.34 Mbit/s
95th percentile per-packet one-way delay: 37.196 ms
Loss rate: 22.72%
-- Flow 1:
Average throughput: 220.18 Mbit/s
95th percentile per-packet one-way delay: 39.634 ms
Loss rate: 20.96%
-- Flow 2:
Average throughput: 226.65 Mbit/s
95th percentile per-packet one-way delay: 38.768 ms
Loss rate: 24.73%
-- Flow 3:
Average throughput: 190.33 Mbit/s
95th percentile per-packet one-way delay: 23.832 ms
Loss rate: 23.80%

Run 6: Report of Verus — Data Link

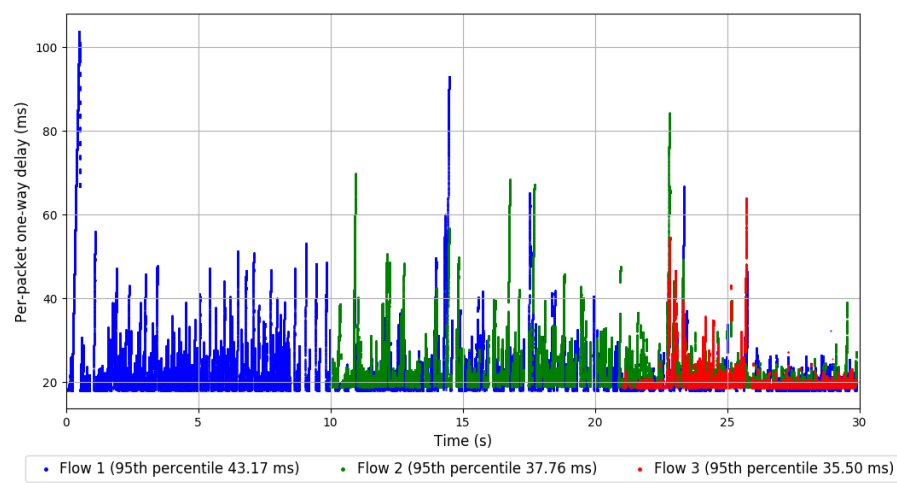
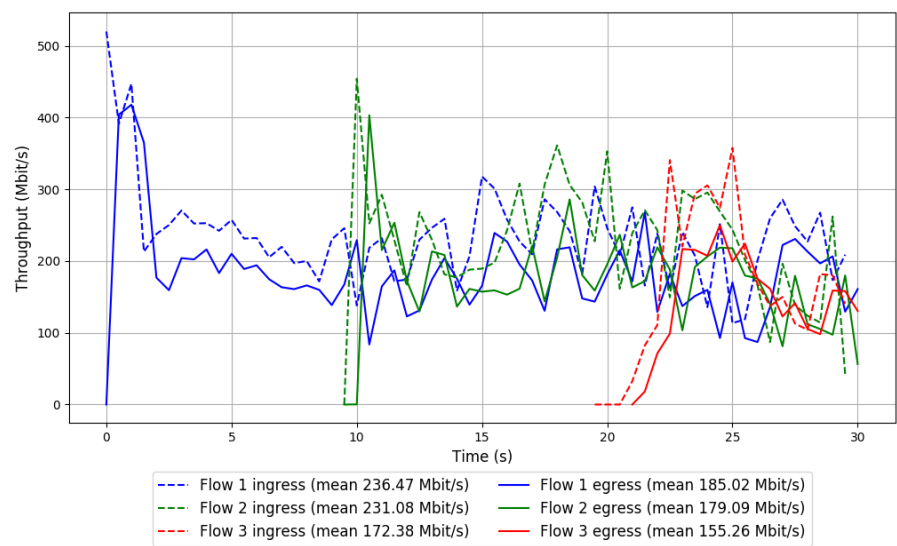


Run 7: Statistics of Verus

Start at: 2018-05-30 18:40:14
End at: 2018-05-30 18:40:44
Local clock offset: 0.358 ms
Remote clock offset: 0.072 ms

```
# Below is generated by plot.py at 2018-05-30 22:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.59 Mbit/s
95th percentile per-packet one-way delay: 39.201 ms
Loss rate: 21.67%
-- Flow 1:
Average throughput: 185.02 Mbit/s
95th percentile per-packet one-way delay: 43.173 ms
Loss rate: 21.76%
-- Flow 2:
Average throughput: 179.09 Mbit/s
95th percentile per-packet one-way delay: 37.757 ms
Loss rate: 22.50%
-- Flow 3:
Average throughput: 155.26 Mbit/s
95th percentile per-packet one-way delay: 35.502 ms
Loss rate: 19.06%
```


Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-30 19:05:45

End at: 2018-05-30 19:06:15

Local clock offset: -0.3 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-05-30 22:16:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 430.67 Mbit/s

95th percentile per-packet one-way delay: 98.010 ms

Loss rate: 23.54%

-- Flow 1:

Average throughput: 198.01 Mbit/s

95th percentile per-packet one-way delay: 40.517 ms

Loss rate: 24.94%

-- Flow 2:

Average throughput: 275.10 Mbit/s

95th percentile per-packet one-way delay: 120.317 ms

Loss rate: 21.63%

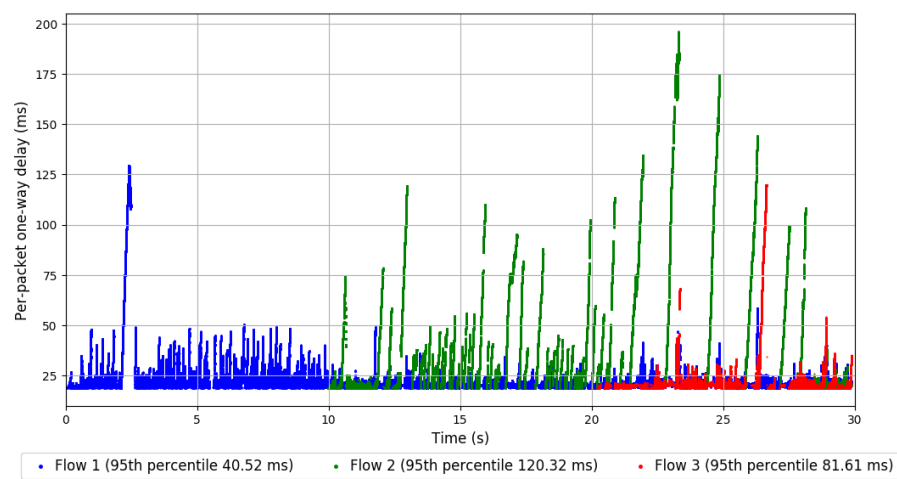
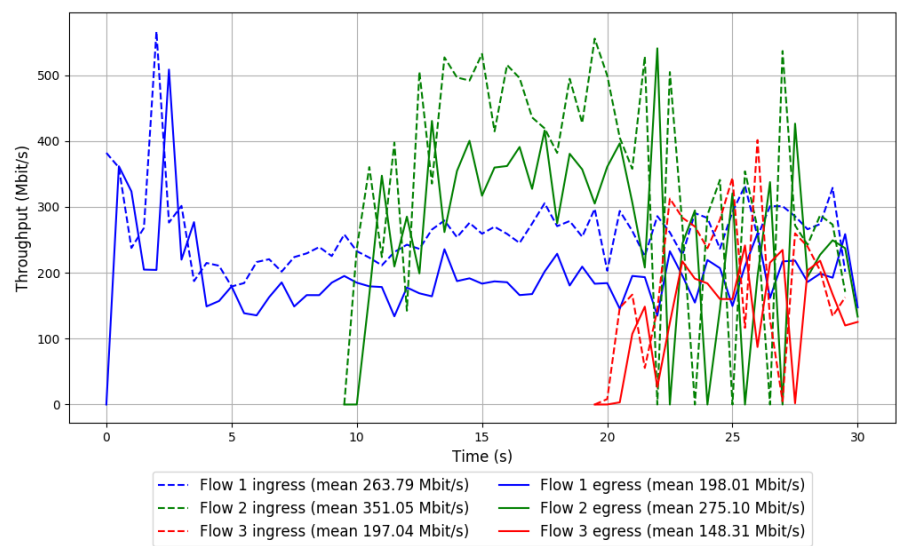
-- Flow 3:

Average throughput: 148.31 Mbit/s

95th percentile per-packet one-way delay: 81.606 ms

Loss rate: 24.71%

Run 8: Report of Verus — Data Link

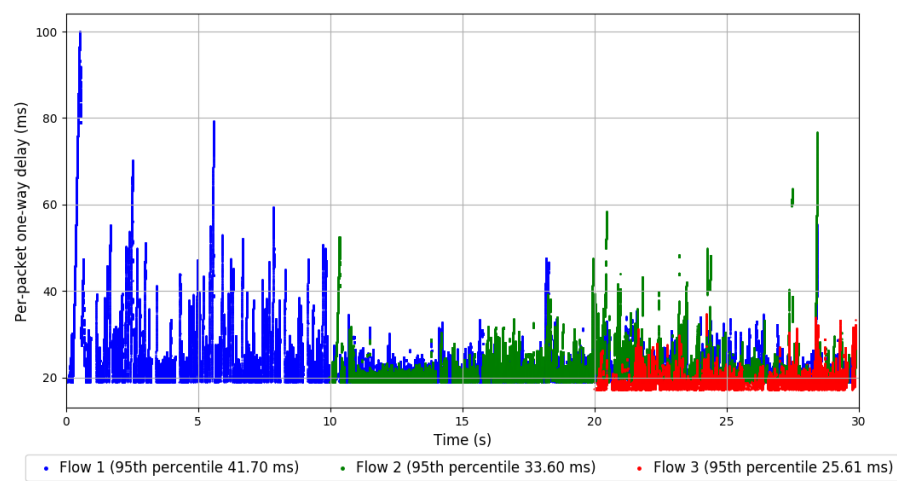
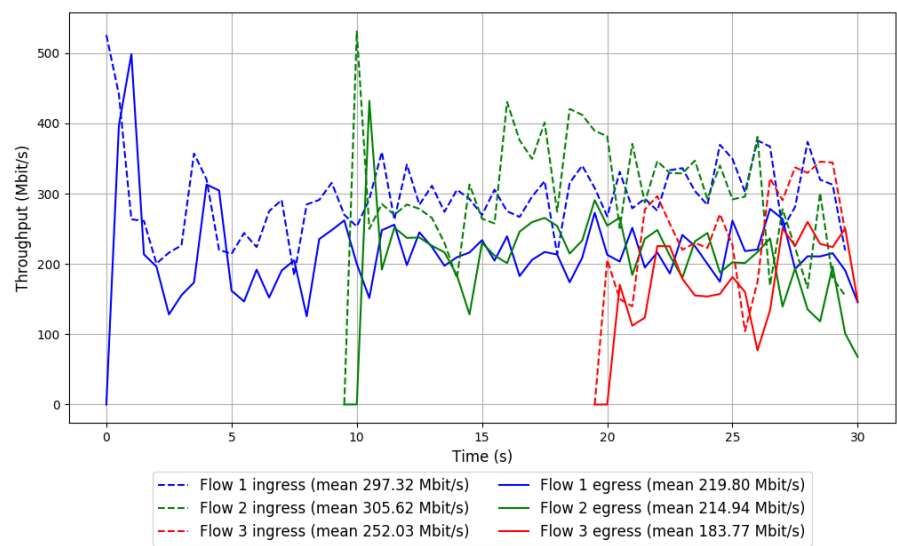


Run 9: Statistics of Verus

Start at: 2018-05-30 19:31:24
End at: 2018-05-30 19:31:54
Local clock offset: -0.971 ms
Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-05-30 22:18:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 424.02 Mbit/s
95th percentile per-packet one-way delay: 35.596 ms
Loss rate: 27.46%
-- Flow 1:
Average throughput: 219.80 Mbit/s
95th percentile per-packet one-way delay: 41.698 ms
Loss rate: 26.06%
-- Flow 2:
Average throughput: 214.94 Mbit/s
95th percentile per-packet one-way delay: 33.597 ms
Loss rate: 29.67%
-- Flow 3:
Average throughput: 183.77 Mbit/s
95th percentile per-packet one-way delay: 25.609 ms
Loss rate: 27.05%

Run 9: Report of Verus — Data Link

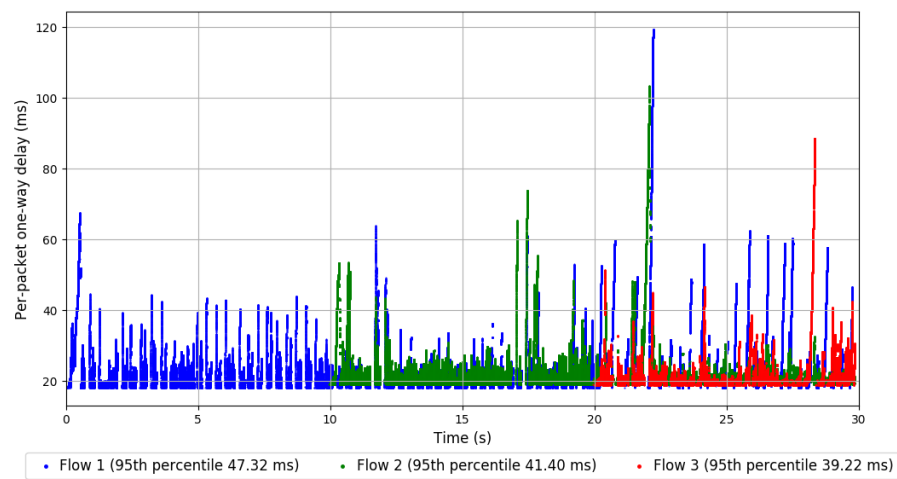
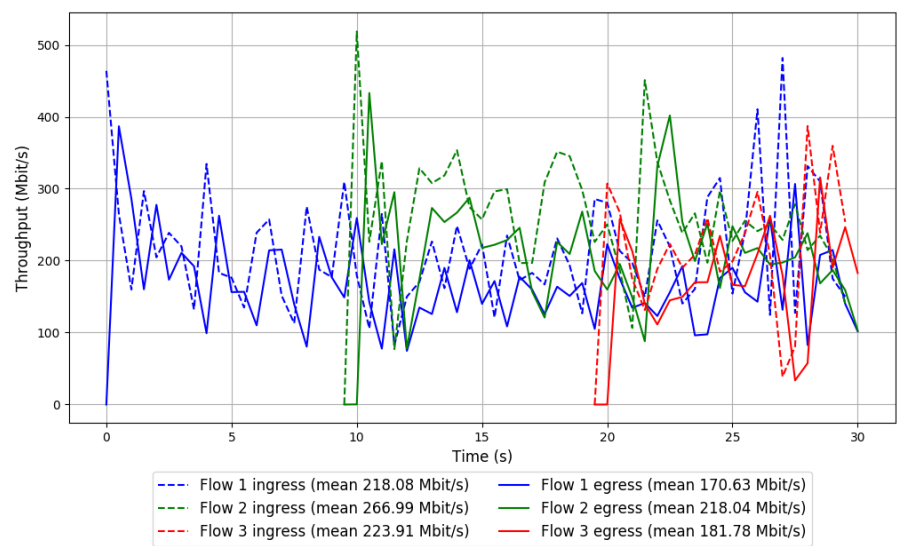


Run 10: Statistics of Verus

Start at: 2018-05-30 19:56:51
End at: 2018-05-30 19:57:21
Local clock offset: -1.239 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-05-30 22:18:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 375.90 Mbit/s
95th percentile per-packet one-way delay: 45.280 ms
Loss rate: 19.95%
-- Flow 1:
Average throughput: 170.63 Mbit/s
95th percentile per-packet one-way delay: 47.316 ms
Loss rate: 21.68%
-- Flow 2:
Average throughput: 218.04 Mbit/s
95th percentile per-packet one-way delay: 41.399 ms
Loss rate: 18.34%
-- Flow 3:
Average throughput: 181.78 Mbit/s
95th percentile per-packet one-way delay: 39.220 ms
Loss rate: 18.77%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-30 16:09:37

End at: 2018-05-30 16:10:07

Local clock offset: 0.107 ms

Remote clock offset: -0.47 ms

Below is generated by plot.py at 2018-05-30 22:20:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 589.50 Mbit/s

95th percentile per-packet one-way delay: 20.419 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 360.79 Mbit/s

95th percentile per-packet one-way delay: 20.461 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 313.20 Mbit/s

95th percentile per-packet one-way delay: 20.409 ms

Loss rate: 0.47%

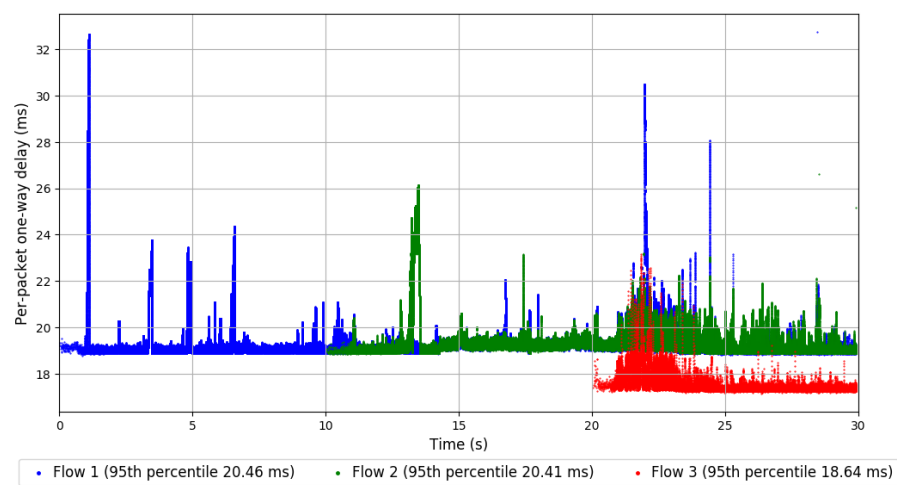
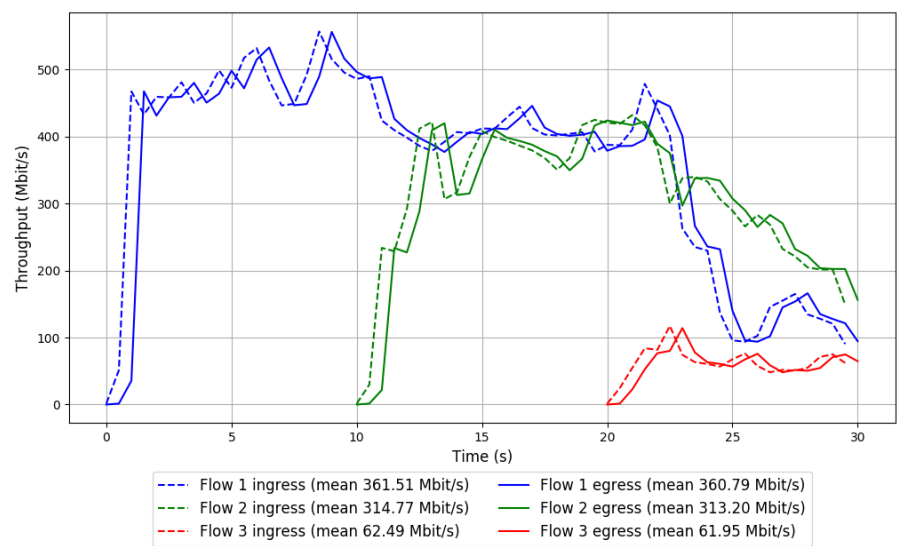
-- Flow 3:

Average throughput: 61.95 Mbit/s

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

Loss rate: 0.87%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-30 16:35:10

End at: 2018-05-30 16:35:40

Local clock offset: 0.162 ms

Remote clock offset: 0.267 ms

Below is generated by plot.py at 2018-05-30 22:22:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 674.13 Mbit/s

95th percentile per-packet one-way delay: 20.109 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 397.09 Mbit/s

95th percentile per-packet one-way delay: 20.578 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 348.37 Mbit/s

95th percentile per-packet one-way delay: 19.761 ms

Loss rate: 0.18%

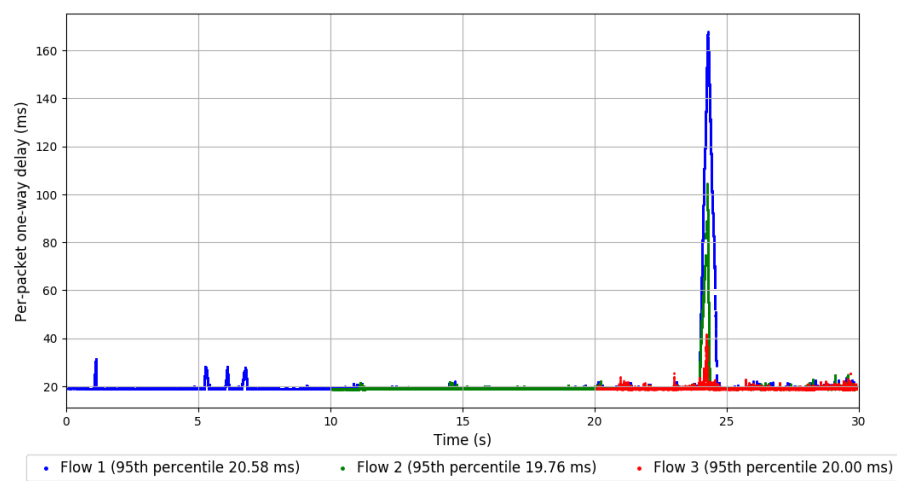
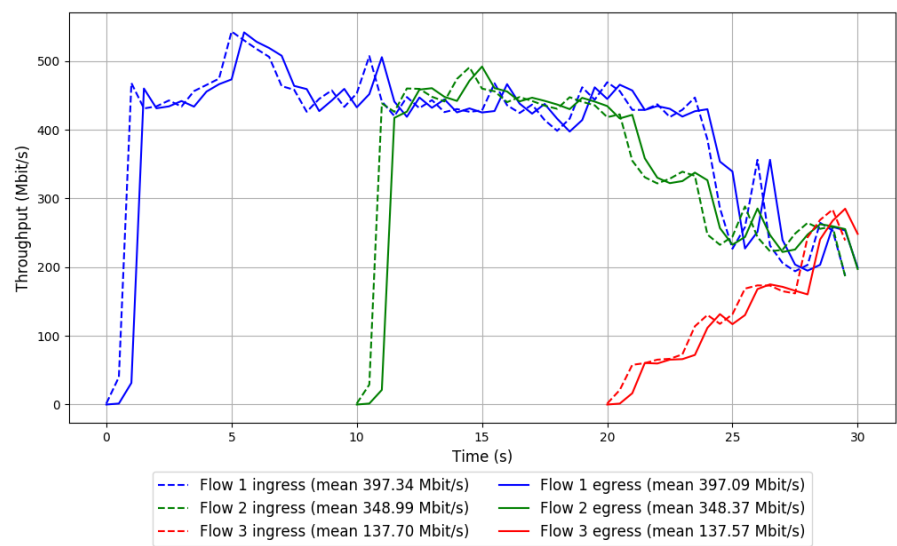
-- Flow 3:

Average throughput: 137.57 Mbit/s

95th percentile per-packet one-way delay: 19.998 ms

Loss rate: 0.07%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-30 17:01:07

End at: 2018-05-30 17:01:37

Local clock offset: 0.375 ms

Remote clock offset: 0.421 ms

Below is generated by plot.py at 2018-05-30 22:22:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 640.45 Mbit/s

95th percentile per-packet one-way delay: 36.292 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 409.58 Mbit/s

95th percentile per-packet one-way delay: 21.847 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 325.15 Mbit/s

95th percentile per-packet one-way delay: 84.393 ms

Loss rate: 0.58%

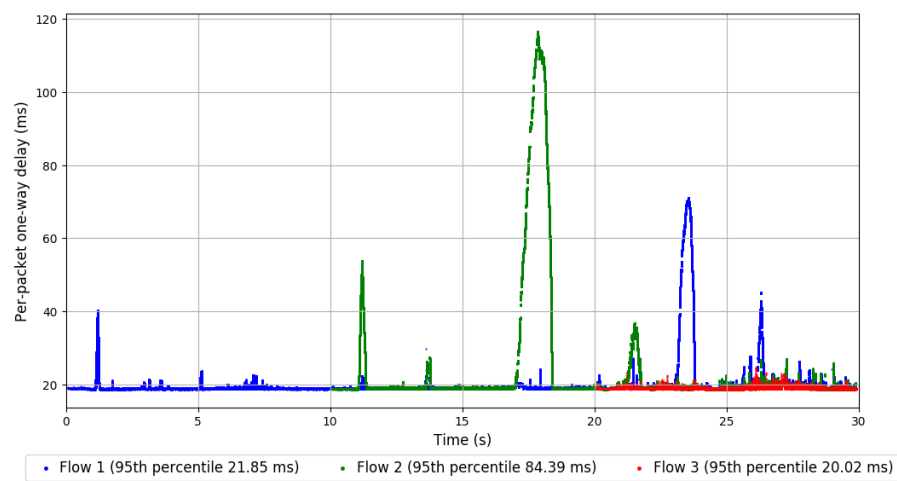
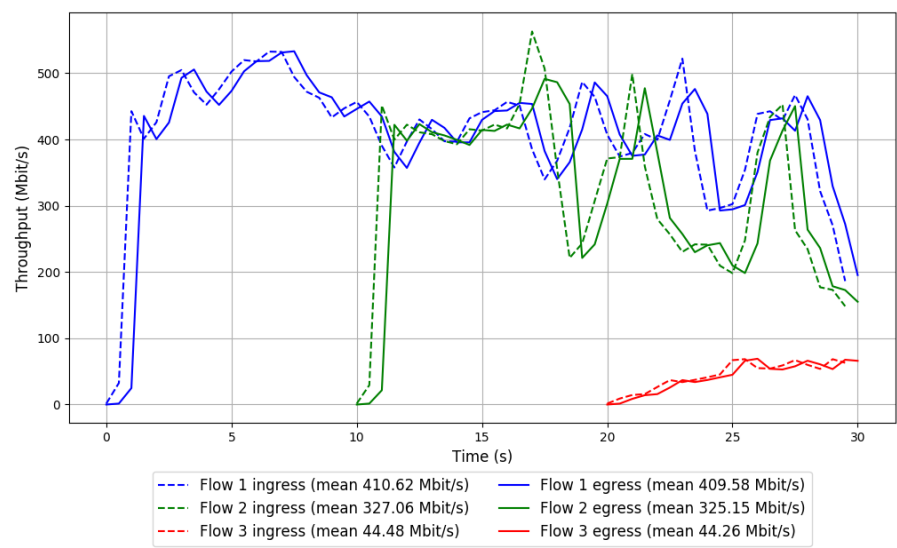
-- Flow 3:

Average throughput: 44.26 Mbit/s

95th percentile per-packet one-way delay: 20.022 ms

Loss rate: 0.50%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-30 17:26:38

End at: 2018-05-30 17:27:08

Local clock offset: 0.302 ms

Remote clock offset: 0.373 ms

Below is generated by plot.py at 2018-05-30 22:22:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 621.05 Mbit/s

95th percentile per-packet one-way delay: 35.339 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 336.59 Mbit/s

95th percentile per-packet one-way delay: 20.060 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 350.31 Mbit/s

95th percentile per-packet one-way delay: 56.416 ms

Loss rate: 0.86%

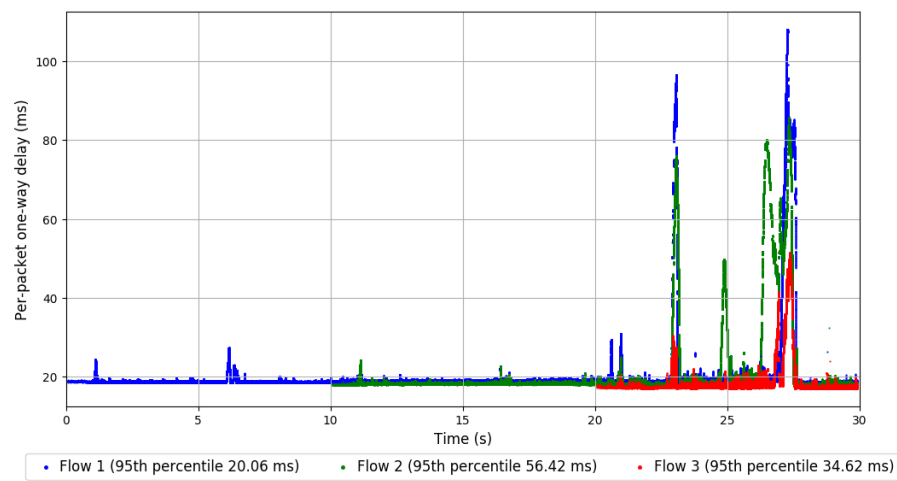
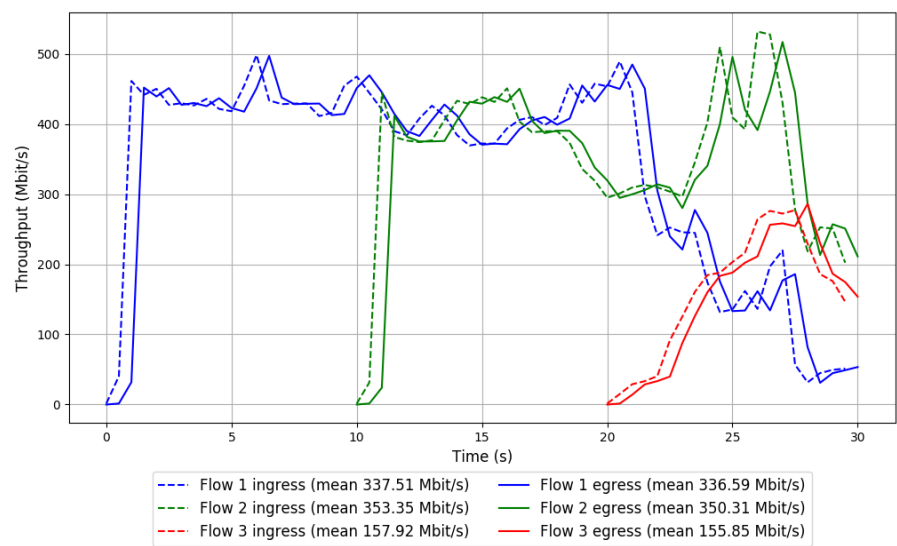
-- Flow 3:

Average throughput: 155.85 Mbit/s

95th percentile per-packet one-way delay: 34.620 ms

Loss rate: 1.30%

Run 4: Report of PCC-Vivace — Data Link

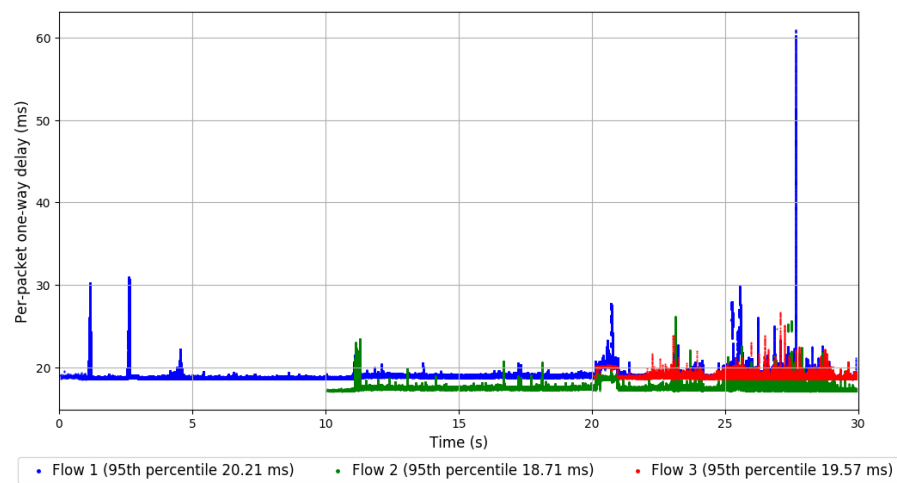
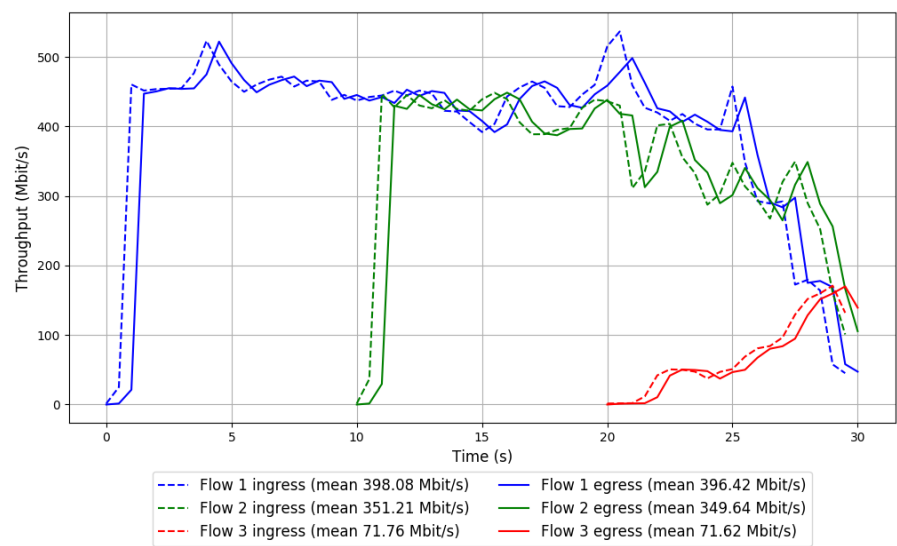


Run 5: Statistics of PCC-Vivace

Start at: 2018-05-30 17:52:11
End at: 2018-05-30 17:52:41
Local clock offset: -0.282 ms
Remote clock offset: -0.428 ms

Below is generated by plot.py at 2018-05-30 22:24:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 652.53 Mbit/s
95th percentile per-packet one-way delay: 19.859 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 396.42 Mbit/s
95th percentile per-packet one-way delay: 20.211 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 349.64 Mbit/s
95th percentile per-packet one-way delay: 18.708 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 71.62 Mbit/s
95th percentile per-packet one-way delay: 19.566 ms
Loss rate: 0.19%

Run 5: Report of PCC-Vivace — Data Link

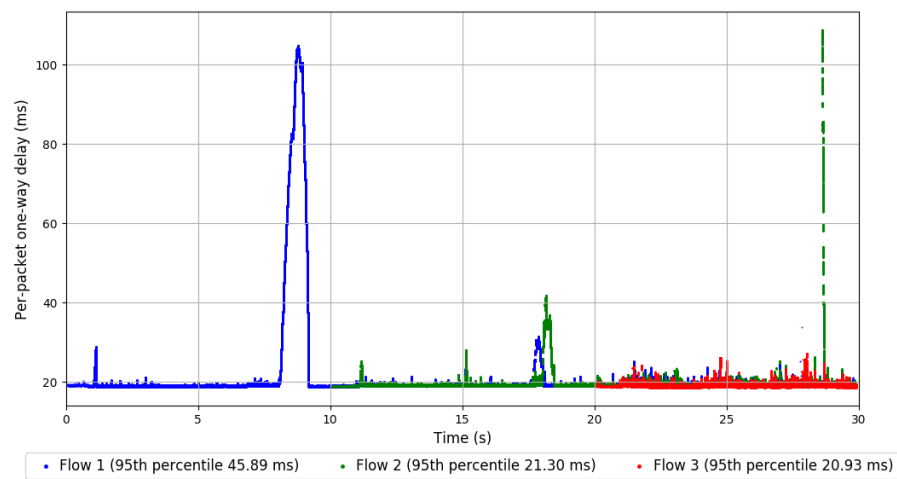
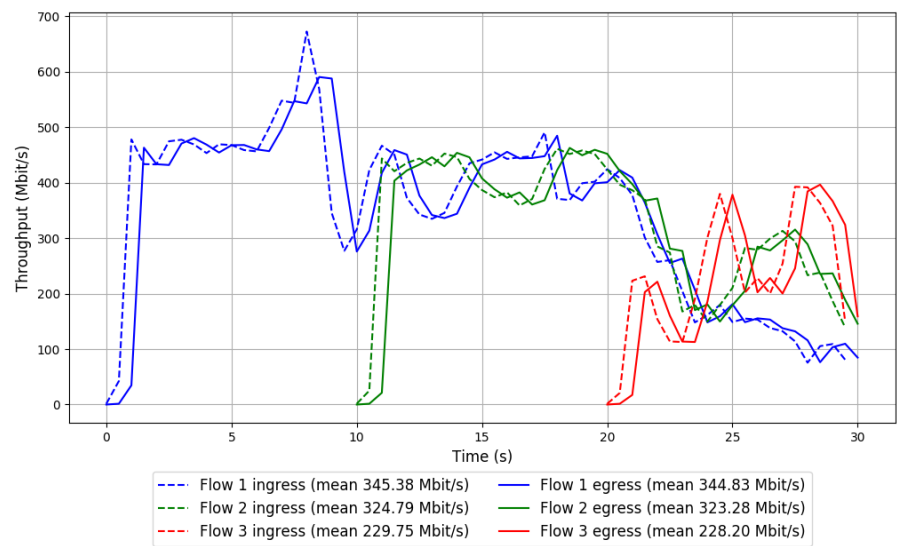


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-30 18:17:44
End at: 2018-05-30 18:18:14
Local clock offset: -0.008 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2018-05-30 22:24:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 635.12 Mbit/s
95th percentile per-packet one-way delay: 25.163 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 344.83 Mbit/s
95th percentile per-packet one-way delay: 45.890 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 323.28 Mbit/s
95th percentile per-packet one-way delay: 21.305 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 228.20 Mbit/s
95th percentile per-packet one-way delay: 20.931 ms
Loss rate: 0.68%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-30 18:43:20

End at: 2018-05-30 18:43:50

Local clock offset: 0.346 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-05-30 22:25:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 637.02 Mbit/s

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

Loss rate: 0.20%

-- Flow 1:

Average throughput: 386.76 Mbit/s

95th percentile per-packet one-way delay: 21.218 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 339.07 Mbit/s

95th percentile per-packet one-way delay: 20.045 ms

Loss rate: 0.19%

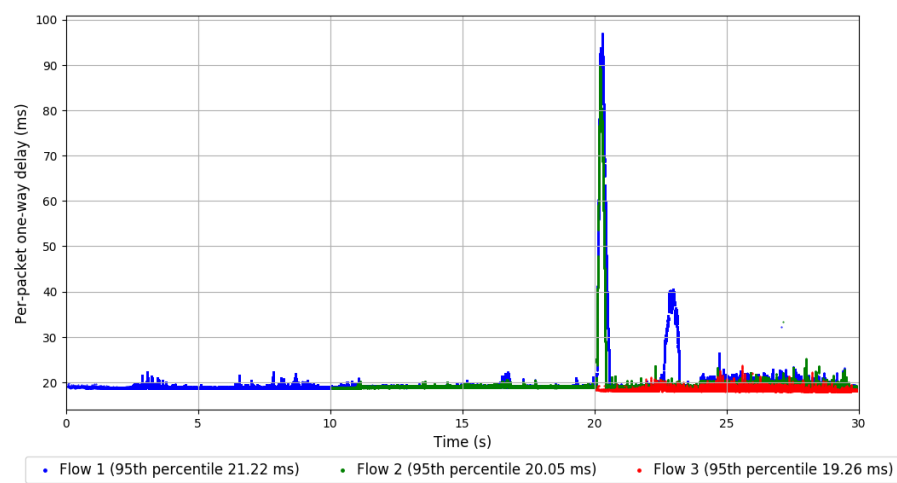
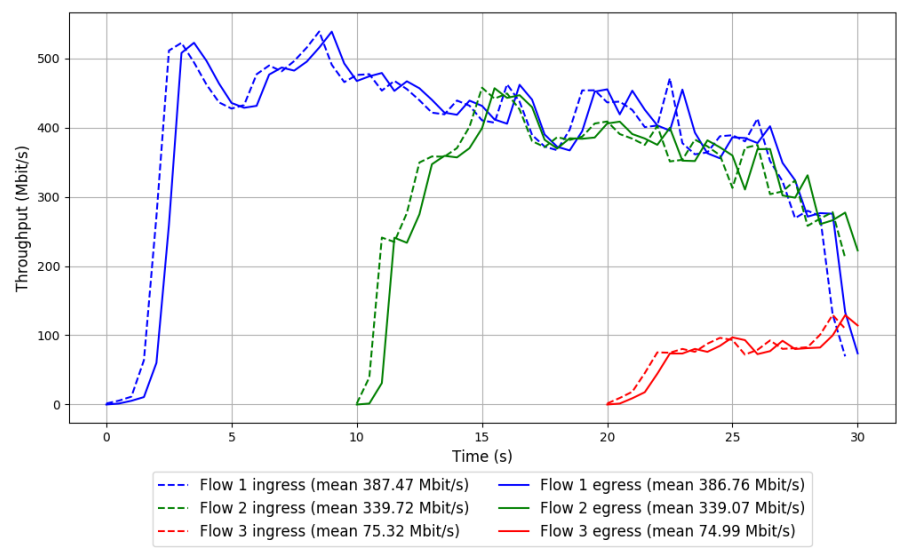
-- Flow 3:

Average throughput: 74.99 Mbit/s

95th percentile per-packet one-way delay: 19.260 ms

Loss rate: 0.45%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-30 19:08:55

End at: 2018-05-30 19:09:25

Local clock offset: -0.479 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-05-30 22:25:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 631.11 Mbit/s

95th percentile per-packet one-way delay: 66.884 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 409.11 Mbit/s

95th percentile per-packet one-way delay: 39.361 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 310.06 Mbit/s

95th percentile per-packet one-way delay: 124.215 ms

Loss rate: 0.66%

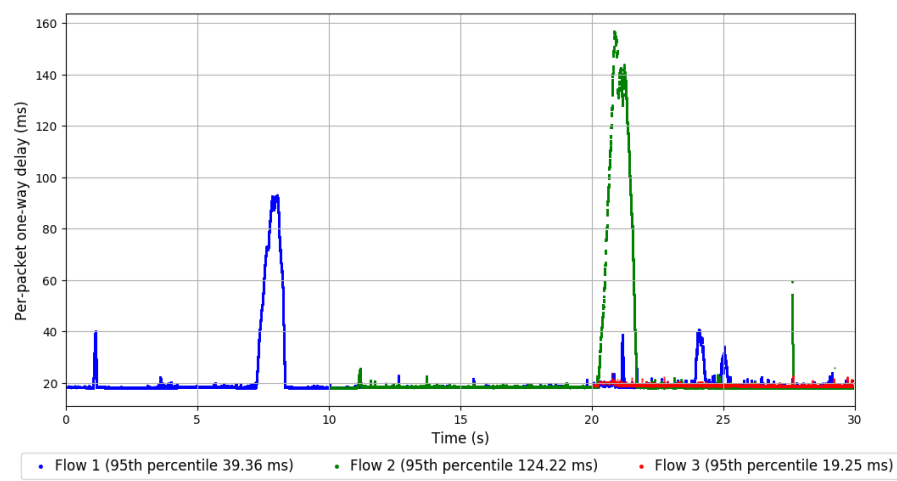
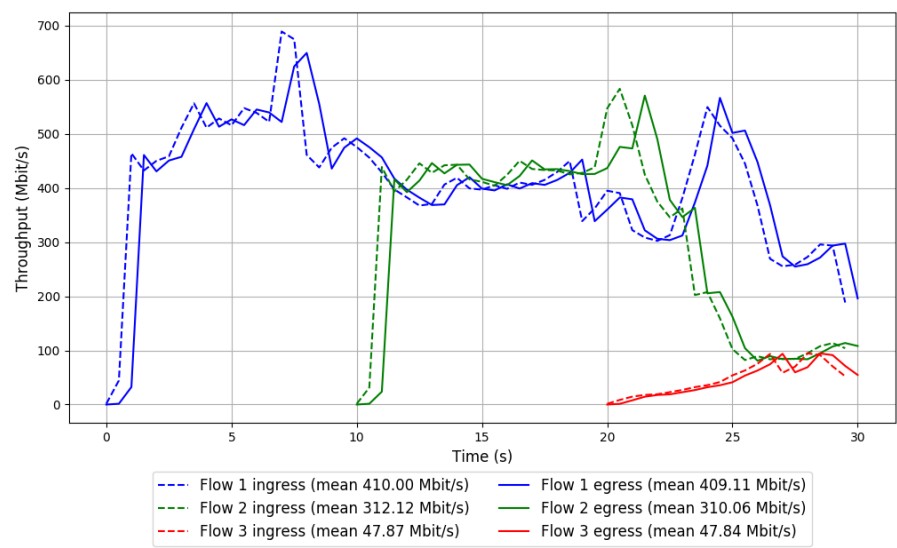
-- Flow 3:

Average throughput: 47.84 Mbit/s

95th percentile per-packet one-way delay: 19.249 ms

Loss rate: 0.06%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-30 19:34:32

End at: 2018-05-30 19:35:02

Local clock offset: -1.023 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-05-30 22:26:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 637.51 Mbit/s

95th percentile per-packet one-way delay: 56.416 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 397.71 Mbit/s

95th percentile per-packet one-way delay: 61.337 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 330.39 Mbit/s

95th percentile per-packet one-way delay: 25.835 ms

Loss rate: 0.80%

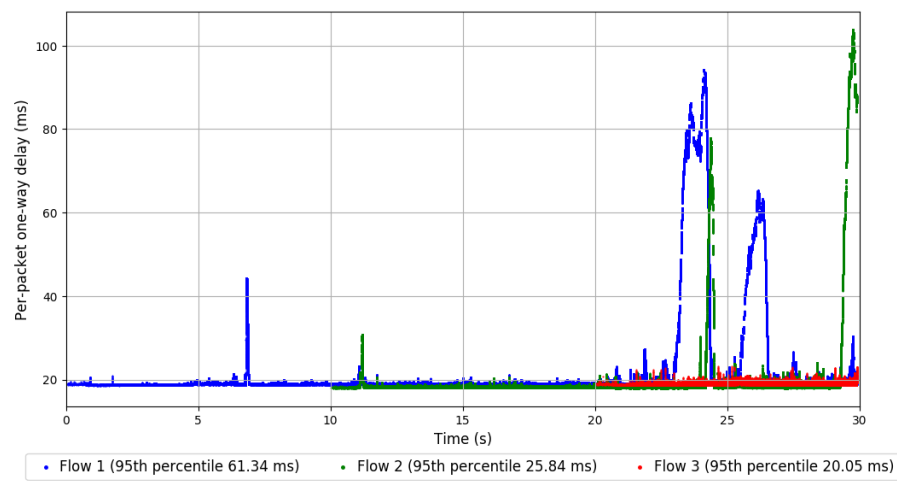
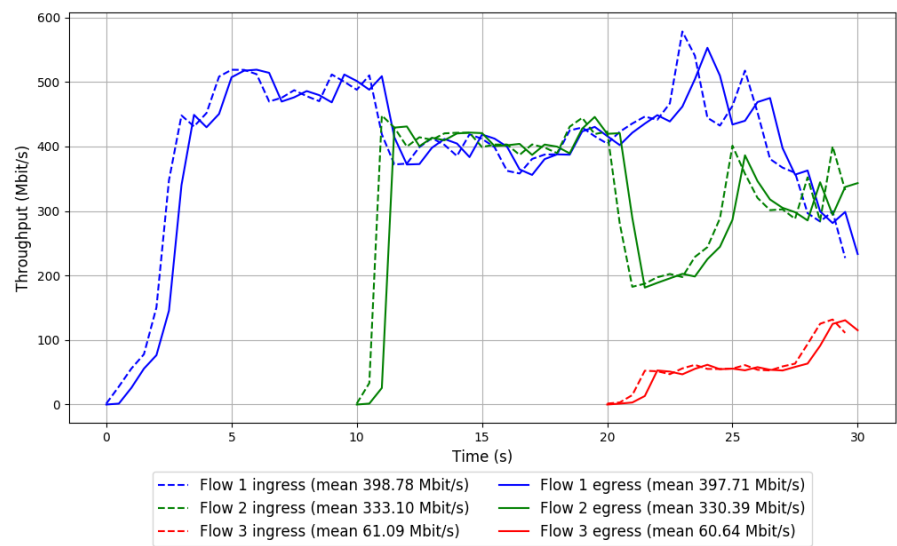
-- Flow 3:

Average throughput: 60.64 Mbit/s

95th percentile per-packet one-way delay: 20.054 ms

Loss rate: 0.73%

Run 9: Report of PCC-Vivace — Data Link

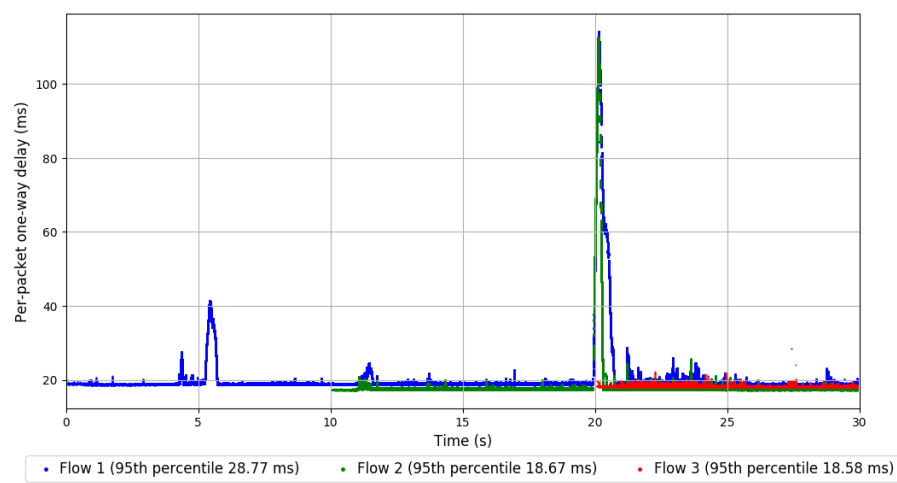
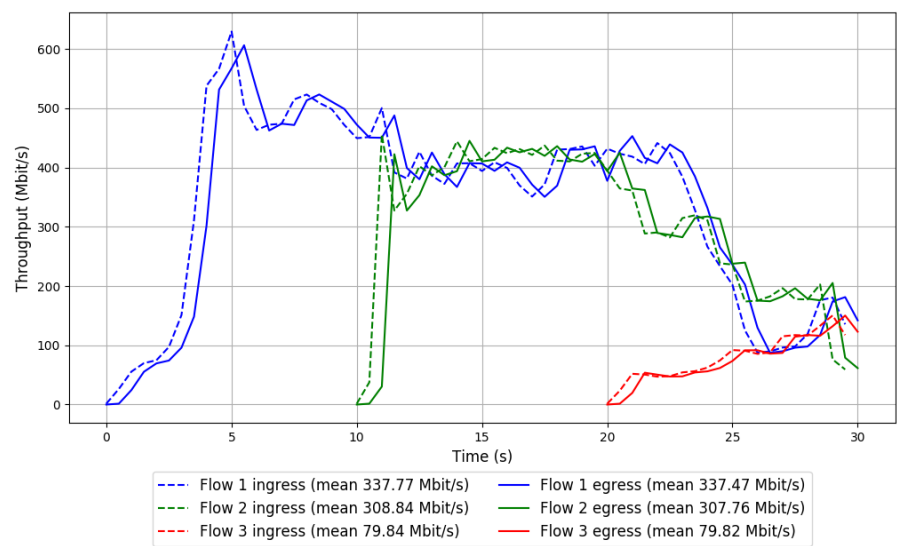


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-30 20:00:00
End at: 2018-05-30 20:00:30
Local clock offset: -1.182 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-05-30 22:26:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 568.48 Mbit/s
95th percentile per-packet one-way delay: 22.868 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 337.47 Mbit/s
95th percentile per-packet one-way delay: 28.767 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 307.76 Mbit/s
95th percentile per-packet one-way delay: 18.670 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 79.82 Mbit/s
95th percentile per-packet one-way delay: 18.581 ms
Loss rate: 0.02%

Run 10: Report of PCC-Vivace — Data Link

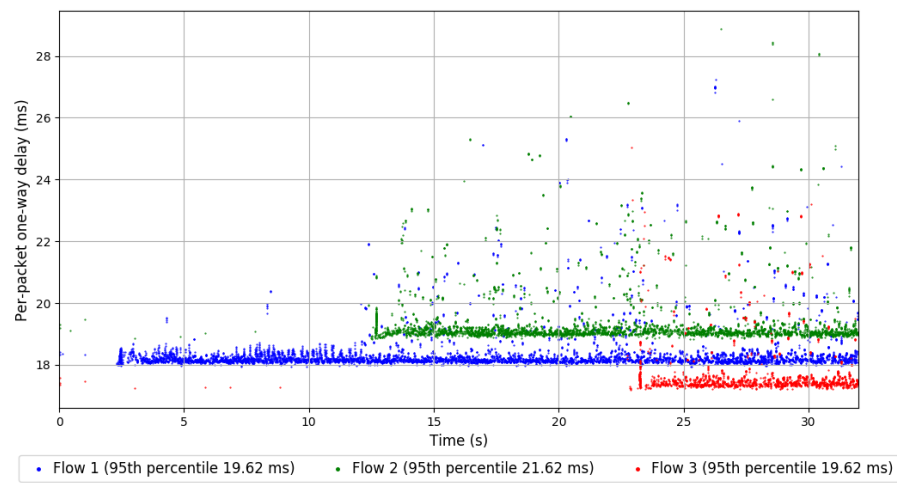
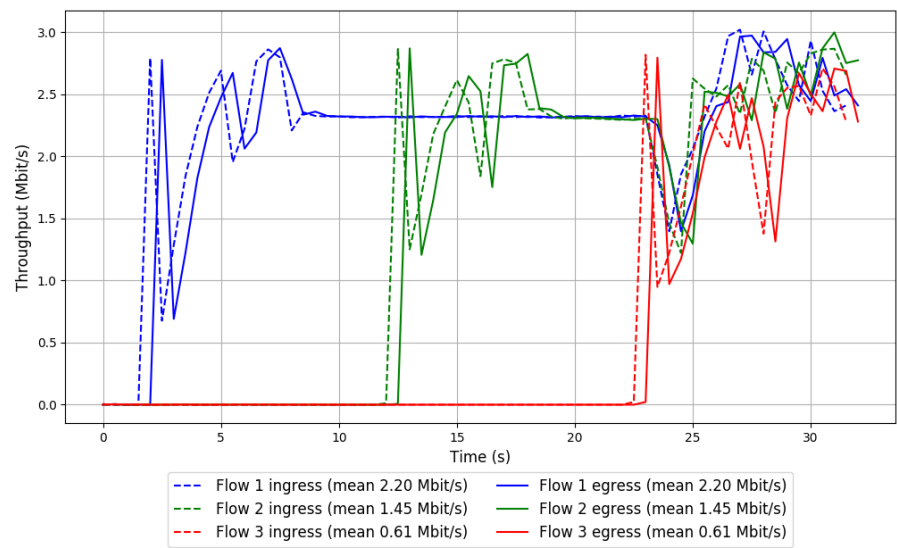


Run 1: Statistics of WebRTC media

Start at: 2018-05-30 16:11:23
End at: 2018-05-30 16:11:53
Local clock offset: 0.074 ms
Remote clock offset: -0.444 ms

Below is generated by plot.py at 2018-05-30 22:26:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 20.431 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 19.621 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 21.619 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 19.618 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-30 16:36:59

End at: 2018-05-30 16:37:29

Local clock offset: 0.165 ms

Remote clock offset: 0.32 ms

Below is generated by plot.py at 2018-05-30 22:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 20.411 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 20.441 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 20.298 ms

Loss rate: 0.00%

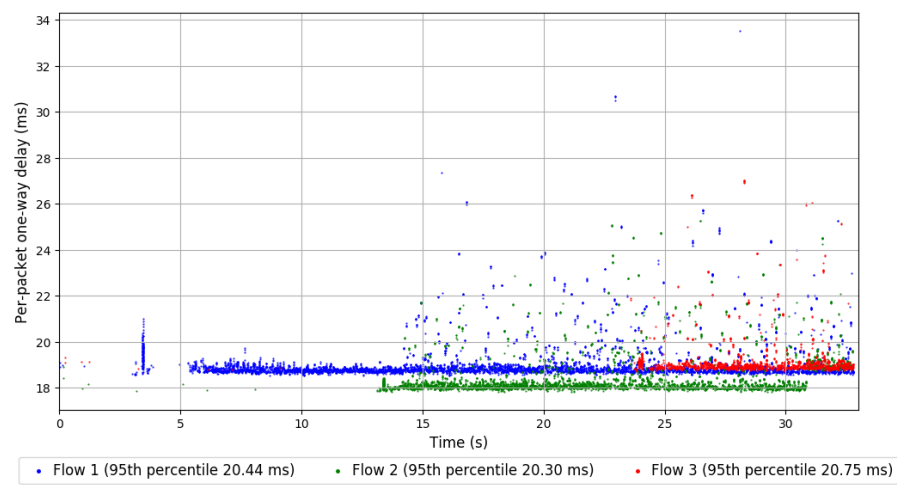
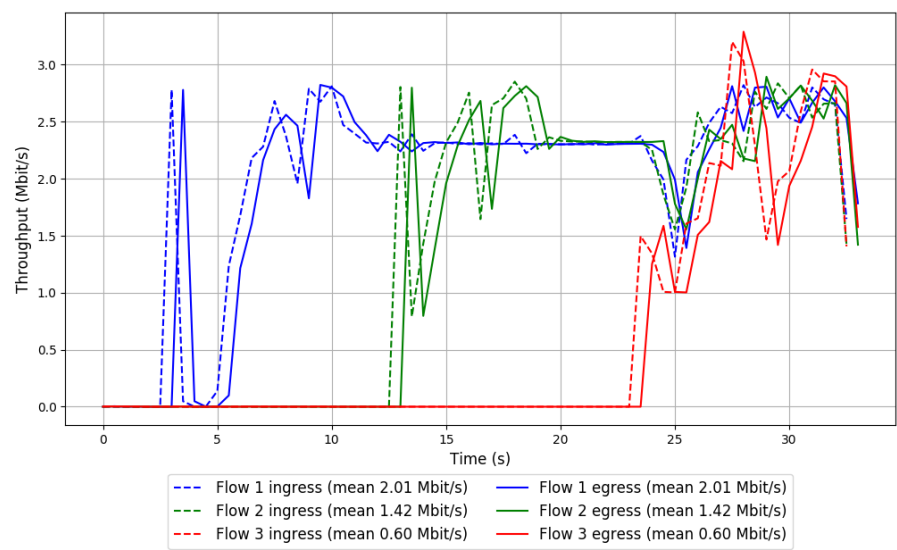
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 20.745 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-30 17:02:55

End at: 2018-05-30 17:03:25

Local clock offset: 0.309 ms

Remote clock offset: 0.403 ms

Below is generated by plot.py at 2018-05-30 22:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 21.008 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.15 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 21.070 ms

Loss rate: 0.00%

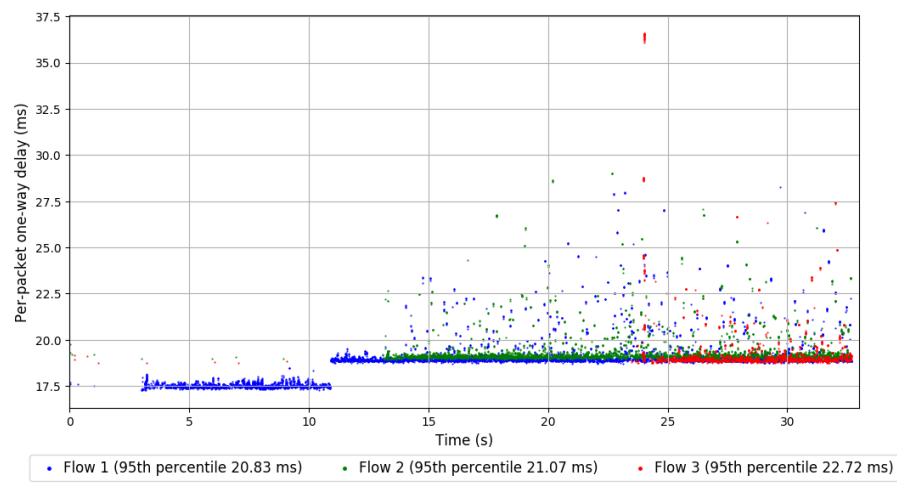
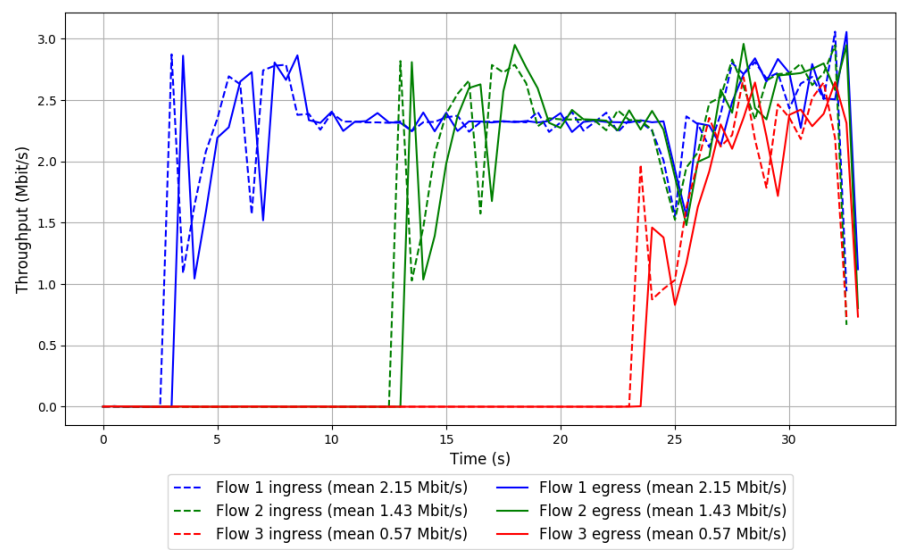
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 22.719 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-30 17:28:25

End at: 2018-05-30 17:28:55

Local clock offset: 0.122 ms

Remote clock offset: 0.345 ms

Below is generated by plot.py at 2018-05-30 22:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 20.437 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.16 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 20.551 ms

Loss rate: 0.00%

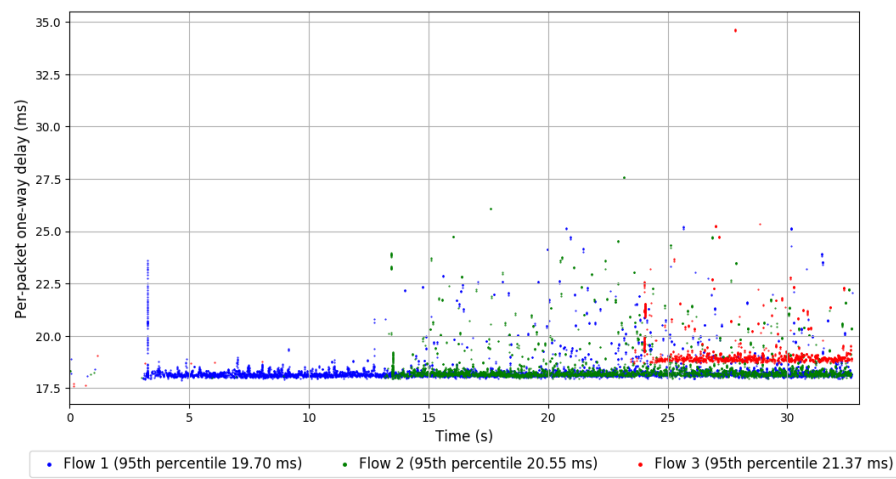
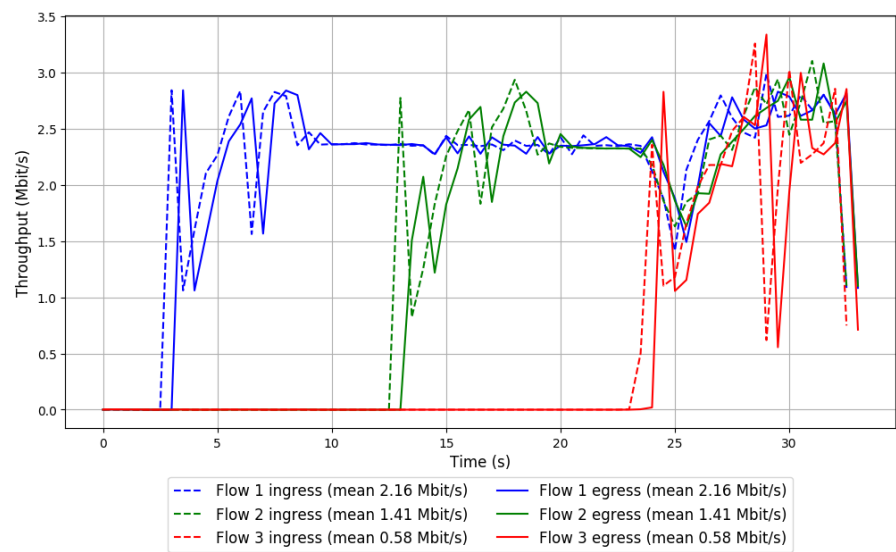
-- Flow 3:

Average throughput: 0.58 Mbit/s

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

Loss rate: 0.10%

Run 4: Report of WebRTC media — Data Link

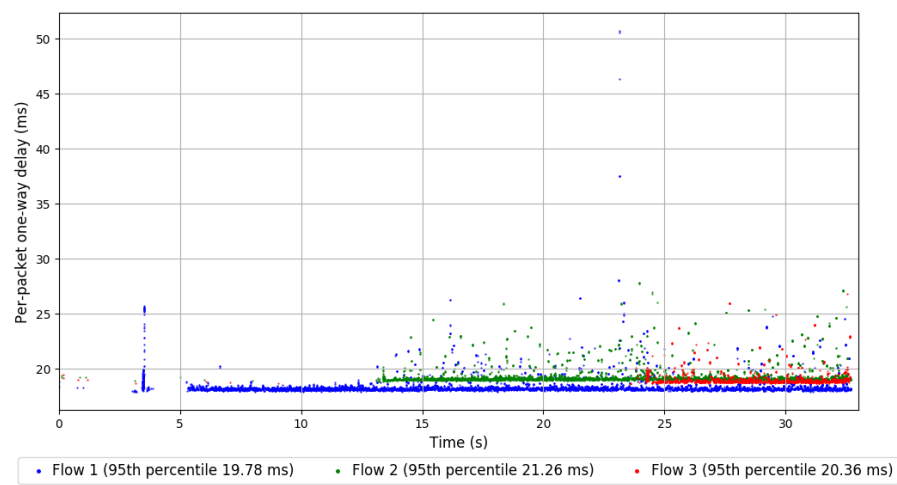
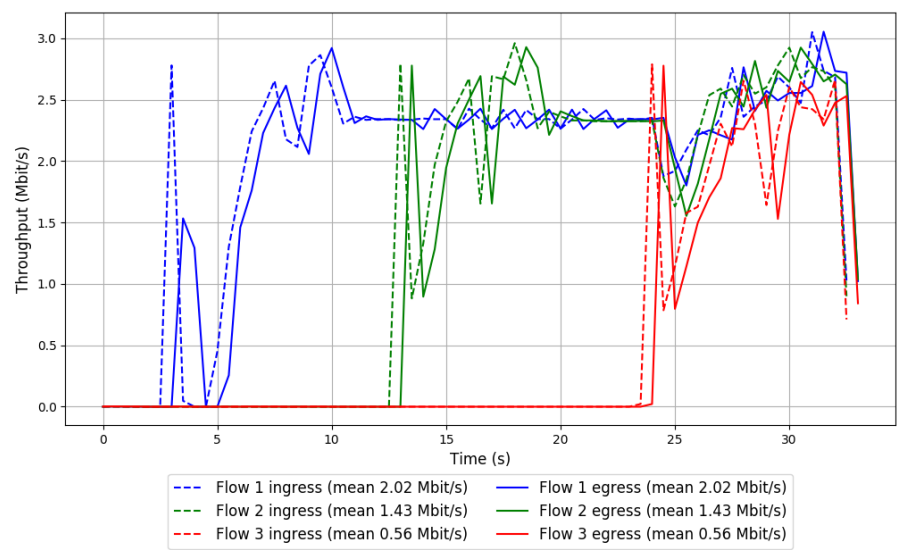


Run 5: Statistics of WebRTC media

Start at: 2018-05-30 17:53:59
End at: 2018-05-30 17:54:29
Local clock offset: -0.244 ms
Remote clock offset: -0.421 ms

Below is generated by plot.py at 2018-05-30 22:26:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 20.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 19.776 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 21.259 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 20.359 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-30 18:19:32

End at: 2018-05-30 18:20:02

Local clock offset: -0.116 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-05-30 22:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 20.279 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 20.431 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

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

Loss rate: 0.00%

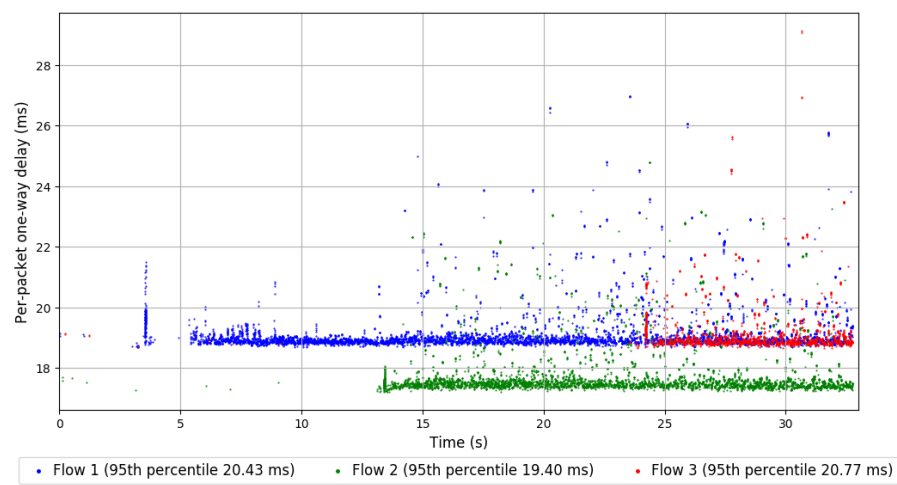
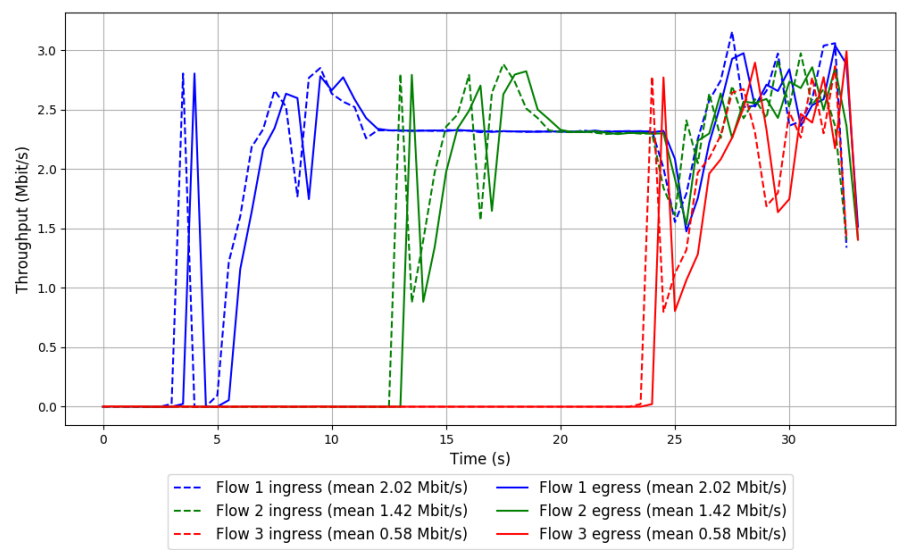
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 20.775 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-30 18:45:08

End at: 2018-05-30 18:45:38

Local clock offset: 0.363 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-05-30 22:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 20.876 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 20.524 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 21.140 ms

Loss rate: 0.00%

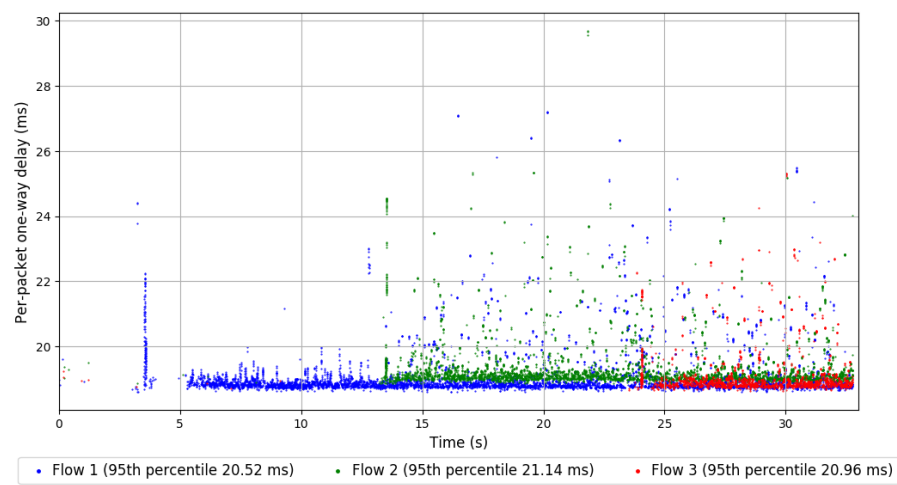
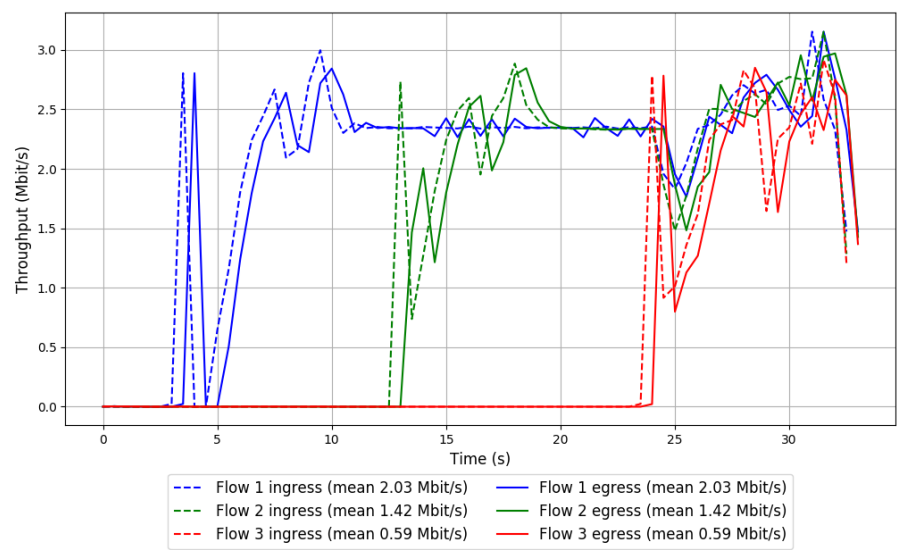
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 20.957 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-30 19:10:43

End at: 2018-05-30 19:11:13

Local clock offset: -0.435 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-05-30 22:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 19.739 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 19.860 ms

Loss rate: 0.00%

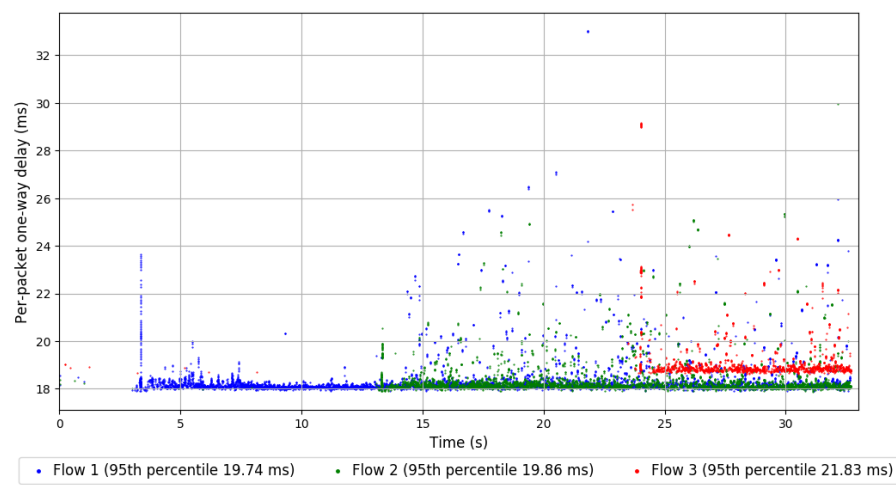
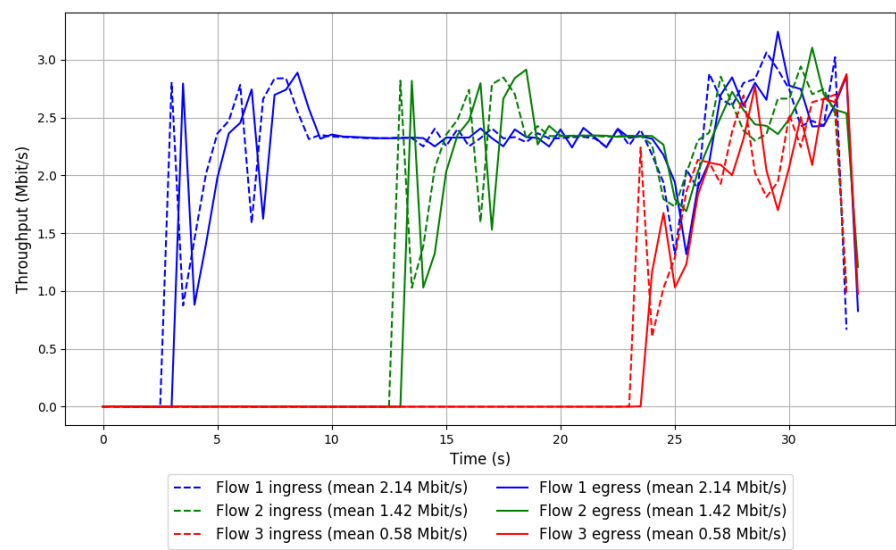
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 21.829 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-30 19:36:20

End at: 2018-05-30 19:36:50

Local clock offset: -1.165 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-05-30 22:26:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 20.050 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 19.682 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 20.261 ms

Loss rate: 0.00%

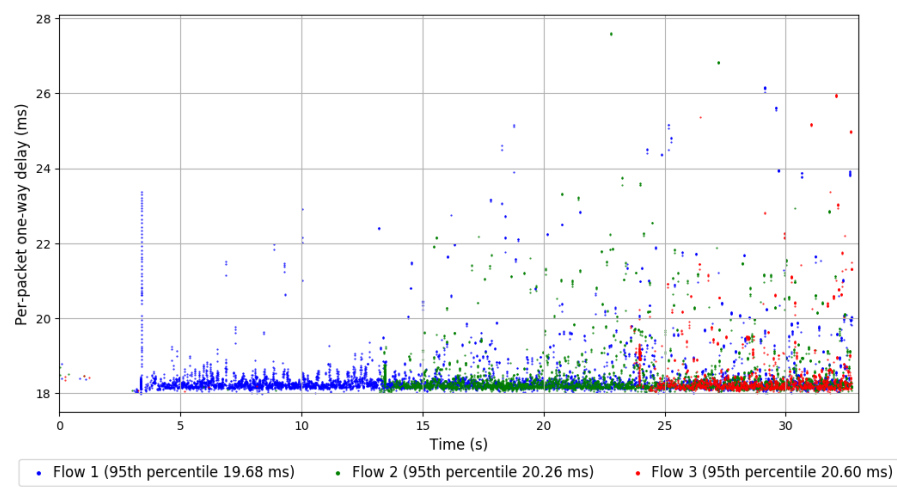
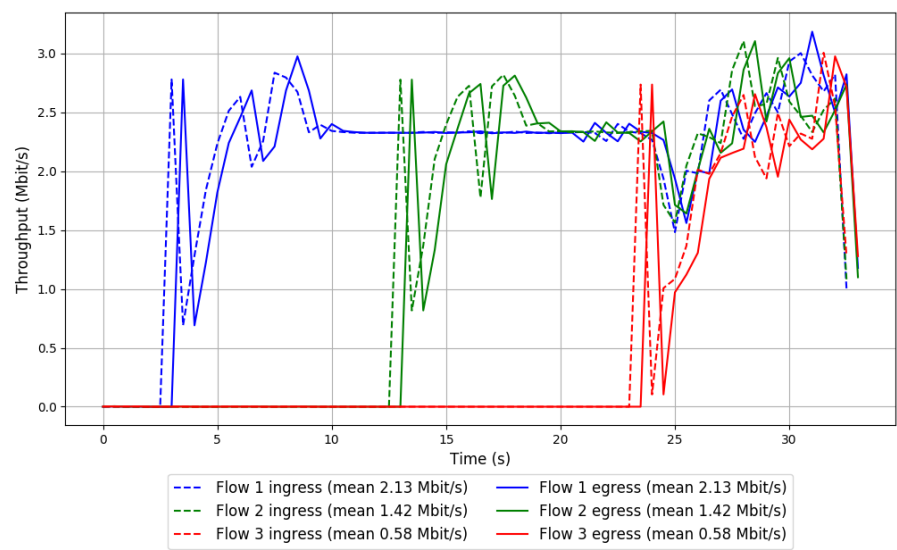
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 20.602 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-30 20:01:44
End at: 2018-05-30 20:02:14
Local clock offset: -1.159 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-05-30 22:26:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 20.737 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 20.752 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 20.942 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 20.349 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

