

Pantheon Report

Generated at 2018-06-19 15:22:46 (UTC).

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

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.

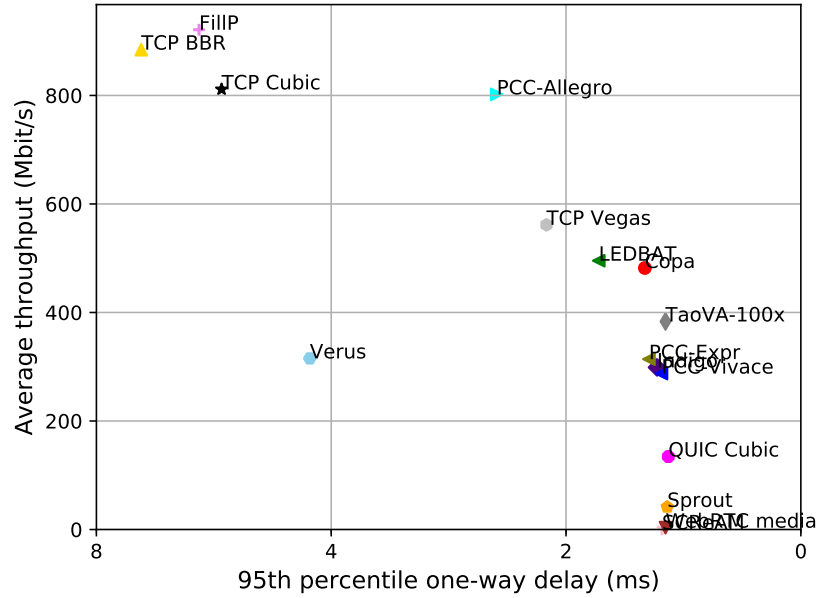
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

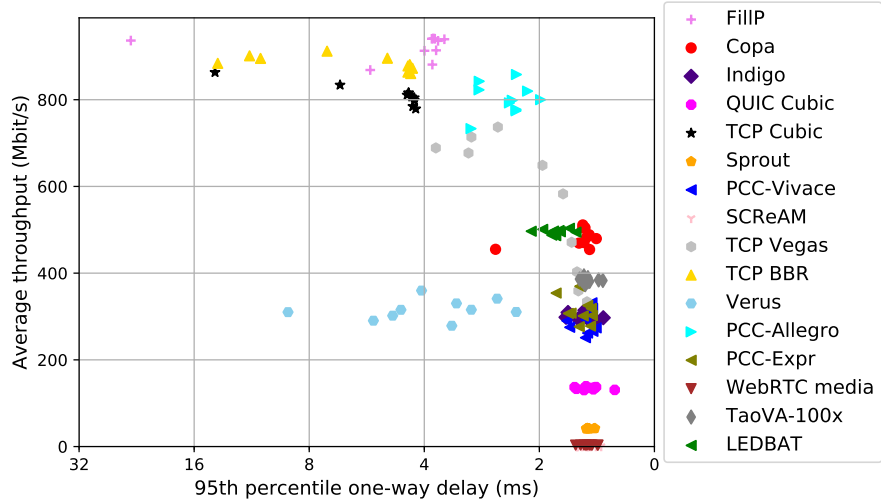
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



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



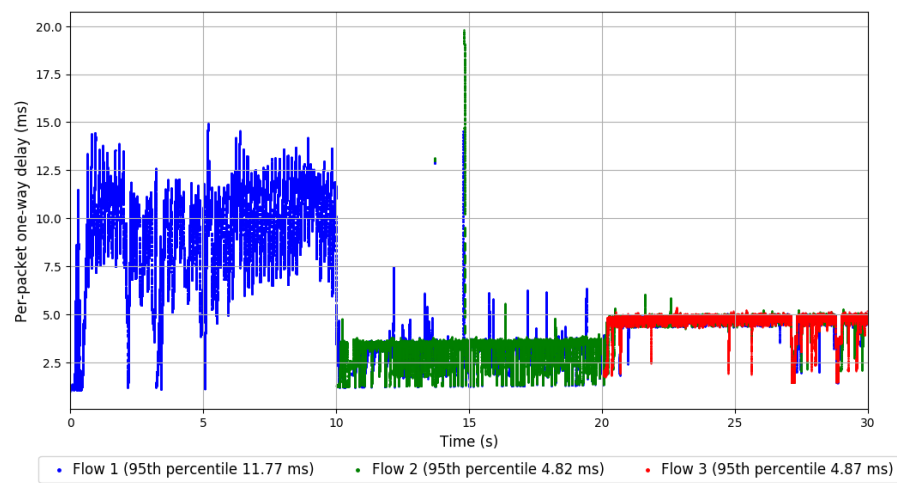
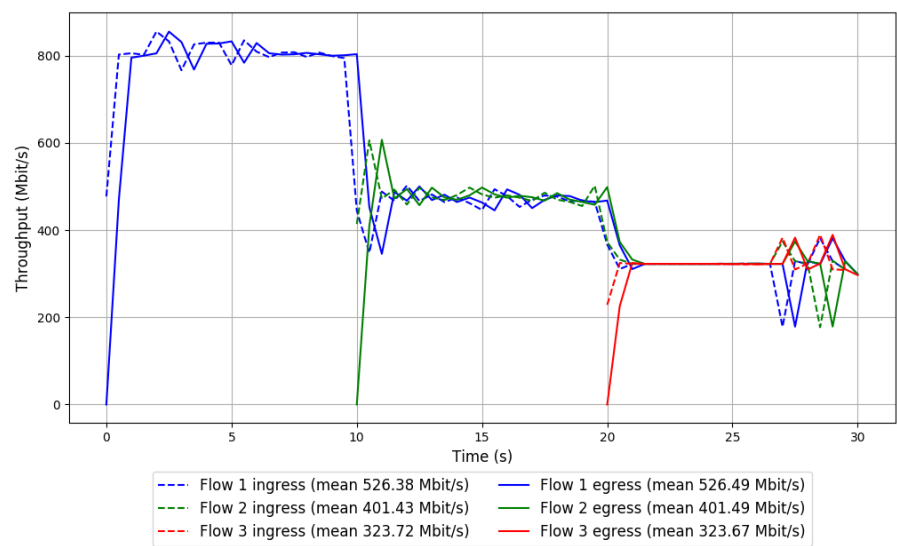
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	514.10	394.86	323.60	7.40	4.45	4.50	0.05	0.07	0.27
Copa	10	283.17	238.57	120.80	1.33	1.34	1.22	0.04	0.07	0.18
TCP Cubic	10	439.81	398.48	319.21	6.17	4.33	4.37	0.06	0.09	0.23
FillP	10	562.27	388.47	303.45	6.61	4.01	3.86	0.06	0.09	0.23
Indigo	10	164.73	148.22	108.15	1.22	1.21	1.25	0.06	0.07	0.15
LEDBAT	10	291.08	222.34	169.93	1.61	1.80	2.01	0.03	0.07	0.29
PCC-Allegro	10	623.98	203.83	130.02	2.42	2.42	2.12	0.02	0.09	0.31
PCC-Expr	10	221.21	110.65	58.47	1.31	1.26	1.28	0.02	0.07	0.19
QUIC Cubic	10	73.23	65.15	54.16	1.13	1.12	1.12	0.05	0.10	0.21
SCReAM	10	0.22	0.22	0.22	1.18	1.18	1.16	0.09	0.17	0.21
Sprout	10	20.89	20.99	20.82	1.14	1.14	1.13	0.08	0.12	0.12
TaoVA-100x	10	215.69	190.95	122.70	1.14	1.15	1.31	0.03	0.05	0.21
TCP Vegas	10	233.70	333.76	318.51	1.78	2.23	2.03	0.05	0.08	0.18
Verus	10	182.91	144.75	112.75	5.10	2.13	2.04	0.02	0.08	0.17
PCC-Vivace	10	206.65	87.15	69.32	1.18	1.19	1.20	0.02	0.09	0.26
WebRTC media	10	1.71	1.18	0.53	1.15	1.15	1.14	0.03	0.10	0.13

Run 1: Statistics of TCP BBR

Start at: 2018-06-19 09:14:11
End at: 2018-06-19 09:14:41
Local clock offset: 3.483 ms
Remote clock offset: -3.412 ms

Below is generated by plot.py at 2018-06-19 13:40:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 901.29 Mbit/s
95th percentile per-packet one-way delay: 11.461 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 526.49 Mbit/s
95th percentile per-packet one-way delay: 11.767 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 401.49 Mbit/s
95th percentile per-packet one-way delay: 4.824 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 323.67 Mbit/s
95th percentile per-packet one-way delay: 4.868 ms
Loss rate: 0.23%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-19 09:39:23

End at: 2018-06-19 09:39:53

Local clock offset: 3.615 ms

Remote clock offset: 4.617 ms

Below is generated by plot.py at 2018-06-19 13:40:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 863.68 Mbit/s

95th percentile per-packet one-way delay: 4.414 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 496.08 Mbit/s

95th percentile per-packet one-way delay: 4.380 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 391.14 Mbit/s

95th percentile per-packet one-way delay: 4.417 ms

Loss rate: 0.09%

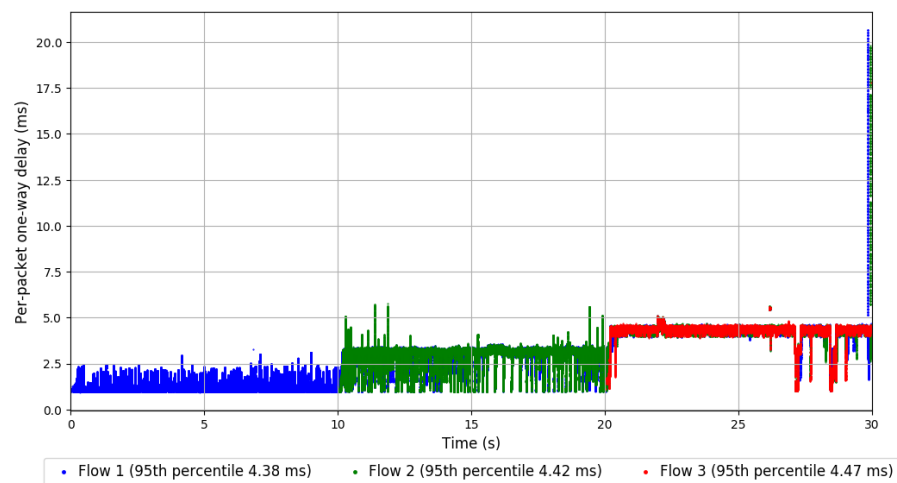
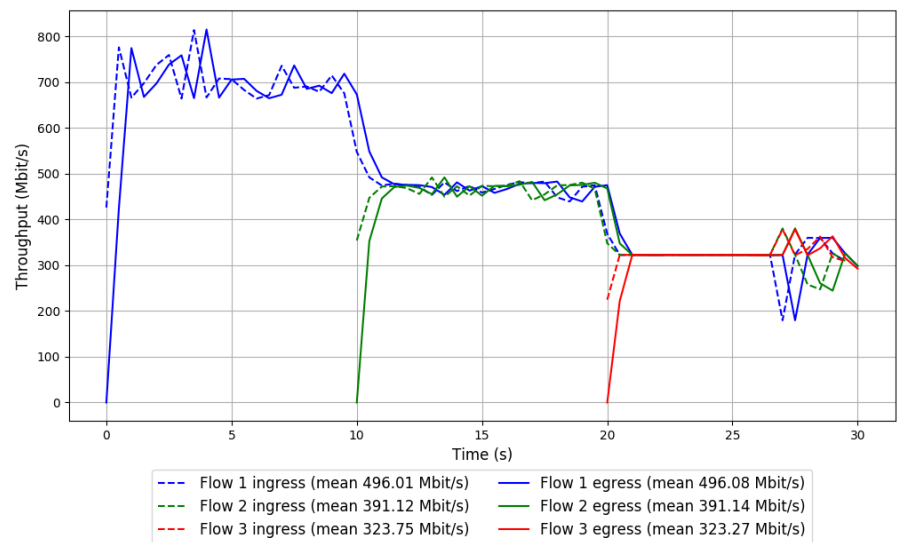
-- Flow 3:

Average throughput: 323.27 Mbit/s

95th percentile per-packet one-way delay: 4.473 ms

Loss rate: 0.30%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-19 10:04:24

End at: 2018-06-19 10:04:54

Local clock offset: 3.743 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2018-06-19 13:40:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 860.42 Mbit/s

95th percentile per-packet one-way delay: 4.342 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 490.02 Mbit/s

95th percentile per-packet one-way delay: 4.343 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 394.22 Mbit/s

95th percentile per-packet one-way delay: 4.329 ms

Loss rate: 0.09%

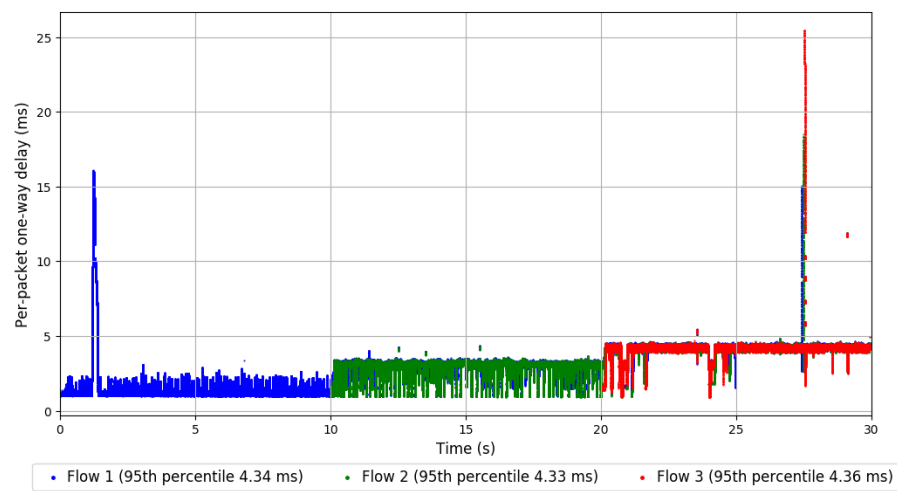
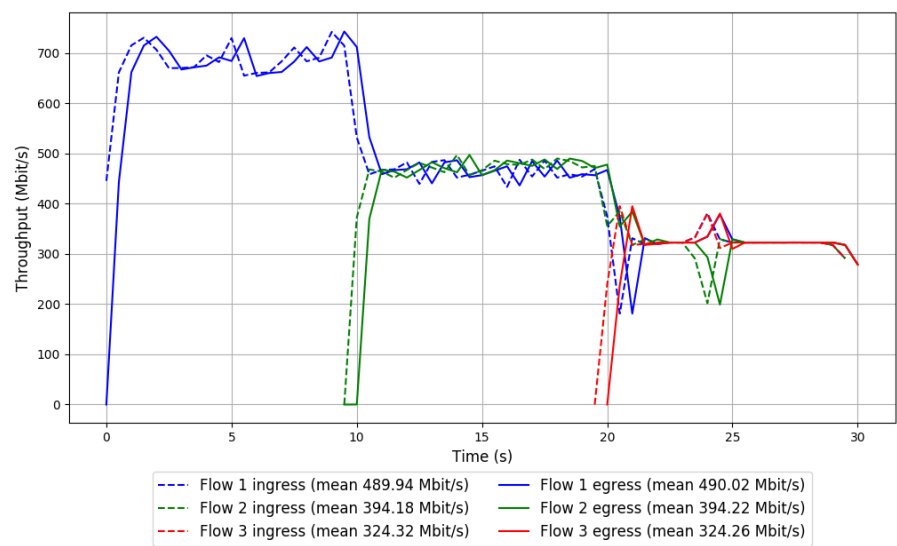
-- Flow 3:

Average throughput: 324.26 Mbit/s

95th percentile per-packet one-way delay: 4.360 ms

Loss rate: 0.23%

Run 3: Report of TCP BBR — Data Link

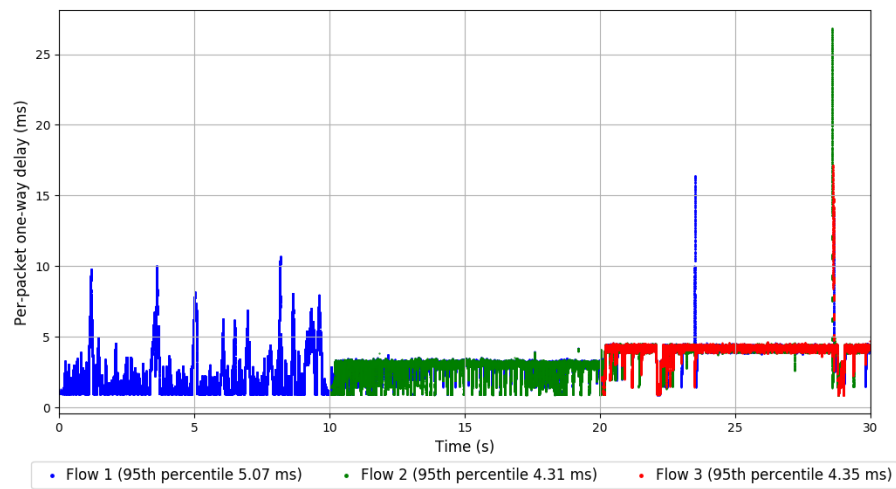
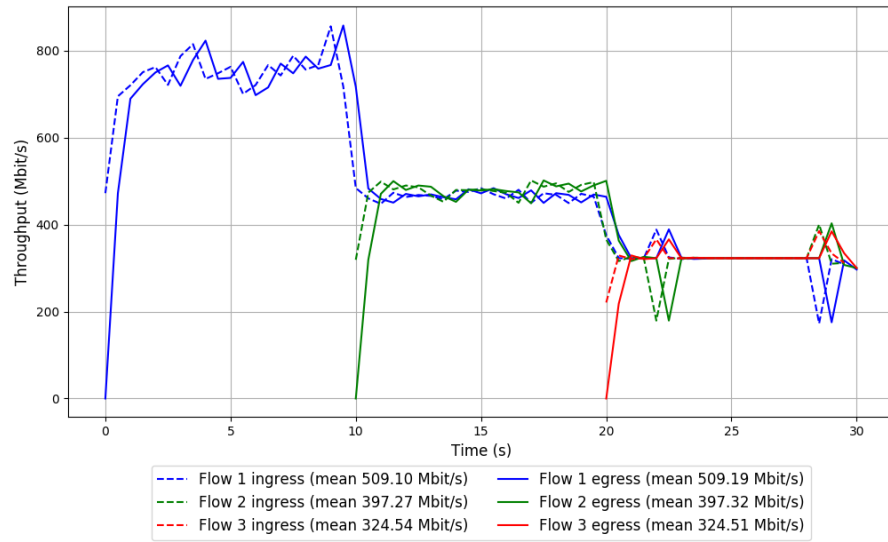


Run 4: Statistics of TCP BBR

Start at: 2018-06-19 10:29:25
End at: 2018-06-19 10:29:55
Local clock offset: 3.68 ms
Remote clock offset: -3.055 ms

Below is generated by plot.py at 2018-06-19 13:40:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 881.15 Mbit/s
95th percentile per-packet one-way delay: 4.366 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 509.19 Mbit/s
95th percentile per-packet one-way delay: 5.070 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 397.32 Mbit/s
95th percentile per-packet one-way delay: 4.306 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 324.51 Mbit/s
95th percentile per-packet one-way delay: 4.352 ms
Loss rate: 0.23%

Run 4: Report of TCP BBR — Data Link

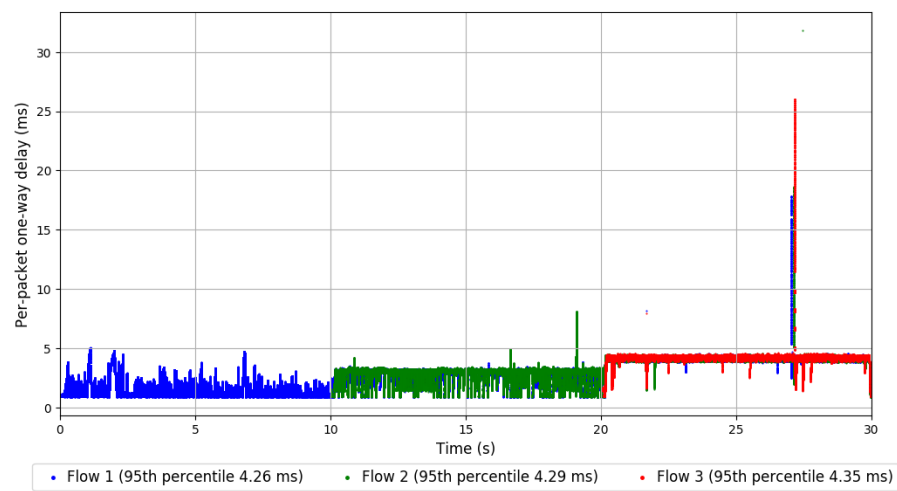
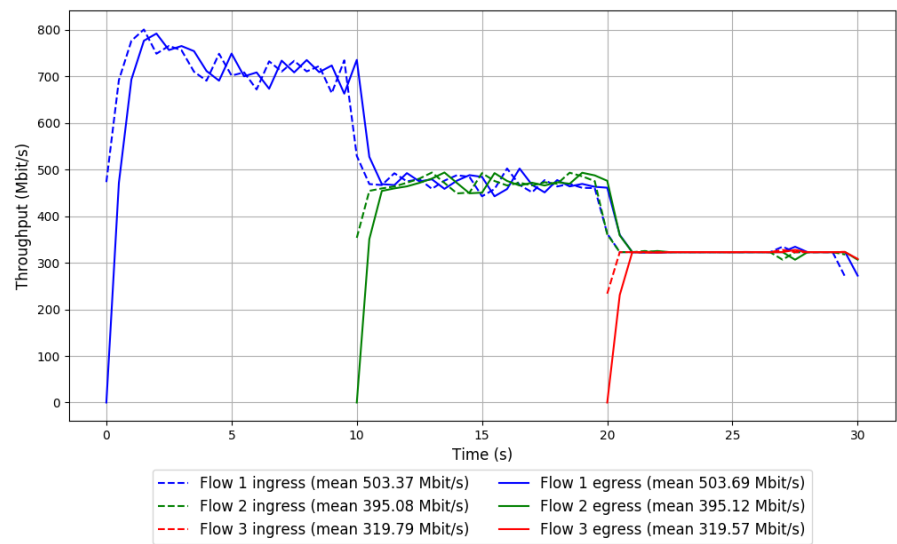


Run 5: Statistics of TCP BBR

Start at: 2018-06-19 10:54:38
End at: 2018-06-19 10:55:08
Local clock offset: 3.504 ms
Remote clock offset: -5.341 ms

Below is generated by plot.py at 2018-06-19 13:40:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 872.60 Mbit/s
95th percentile per-packet one-way delay: 4.295 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 503.69 Mbit/s
95th percentile per-packet one-way delay: 4.259 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 395.12 Mbit/s
95th percentile per-packet one-way delay: 4.287 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 319.57 Mbit/s
95th percentile per-packet one-way delay: 4.349 ms
Loss rate: 0.28%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-19 11:19:52

End at: 2018-06-19 11:20:22

Local clock offset: 3.627 ms

Remote clock offset: 3.535 ms

Below is generated by plot.py at 2018-06-19 13:40:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 877.91 Mbit/s

95th percentile per-packet one-way delay: 4.413 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 510.47 Mbit/s

95th percentile per-packet one-way delay: 4.392 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 390.16 Mbit/s

95th percentile per-packet one-way delay: 4.439 ms

Loss rate: 0.09%

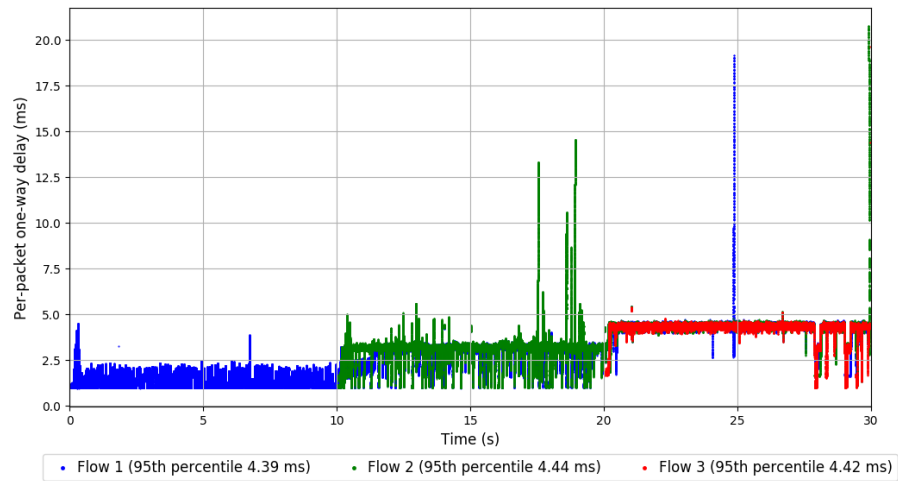
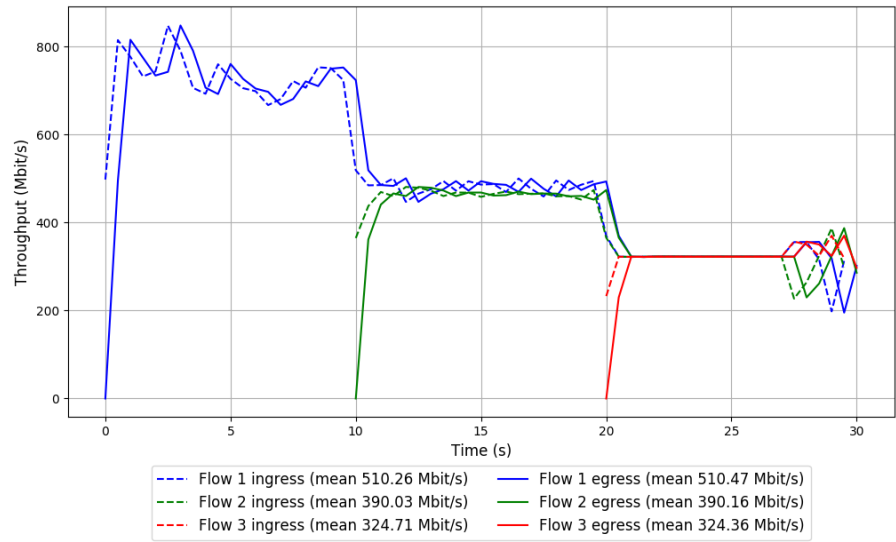
-- Flow 3:

Average throughput: 324.36 Mbit/s

95th percentile per-packet one-way delay: 4.422 ms

Loss rate: 0.38%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-19 11:44:58

End at: 2018-06-19 11:45:28

Local clock offset: 3.658 ms

Remote clock offset: 0.381 ms

Below is generated by plot.py at 2018-06-19 13:40:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 883.95 Mbit/s

95th percentile per-packet one-way delay: 13.881 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 516.52 Mbit/s

95th percentile per-packet one-way delay: 15.450 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 390.71 Mbit/s

95th percentile per-packet one-way delay: 4.422 ms

Loss rate: 0.09%

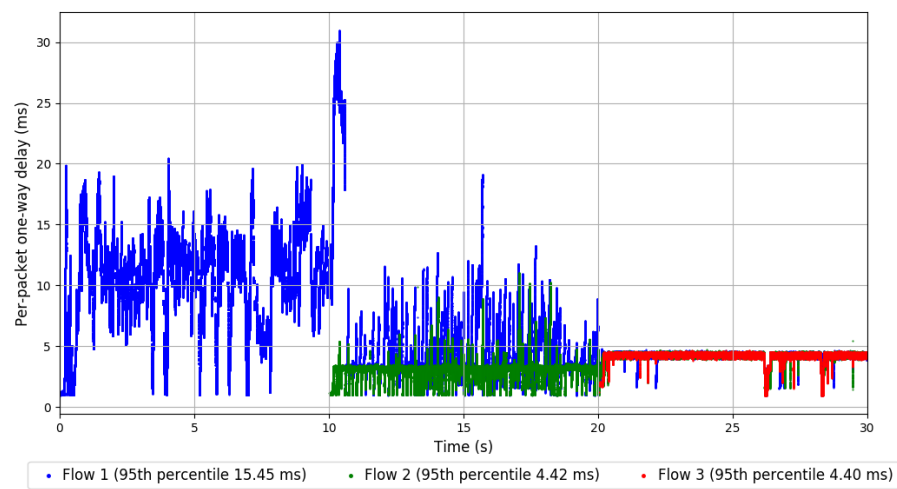
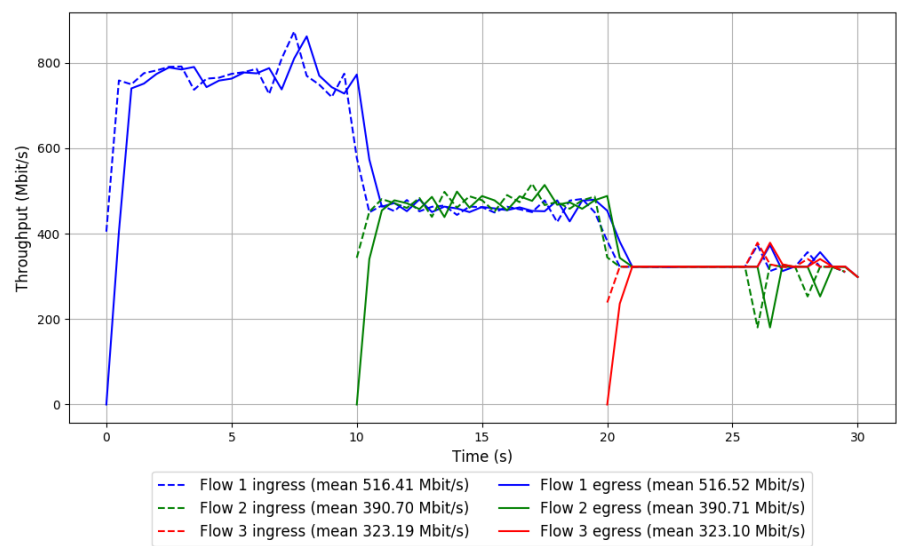
-- Flow 3:

Average throughput: 323.10 Mbit/s

95th percentile per-packet one-way delay: 4.401 ms

Loss rate: 0.23%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-19 12:10:11

End at: 2018-06-19 12:10:41

Local clock offset: 3.53 ms

Remote clock offset: 1.591 ms

Below is generated by plot.py at 2018-06-19 13:40:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 912.03 Mbit/s

95th percentile per-packet one-way delay: 7.184 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 540.37 Mbit/s

95th percentile per-packet one-way delay: 7.809 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 393.91 Mbit/s

95th percentile per-packet one-way delay: 4.500 ms

Loss rate: 0.09%

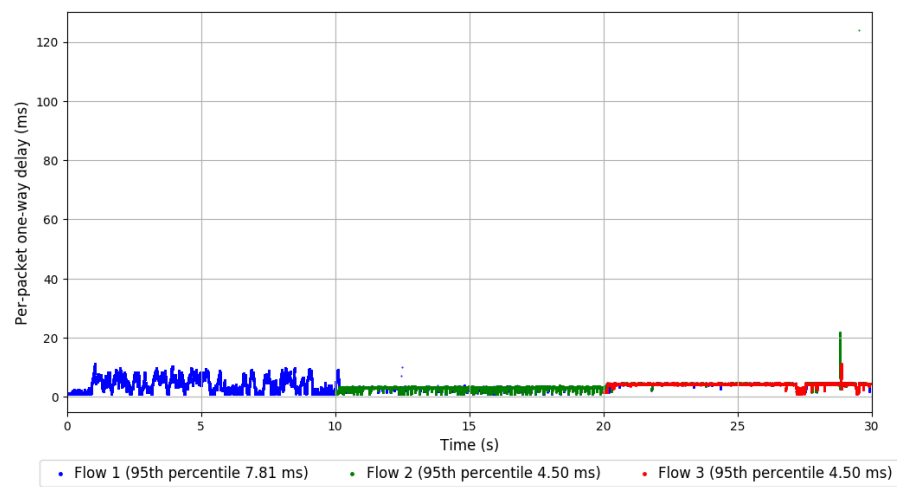
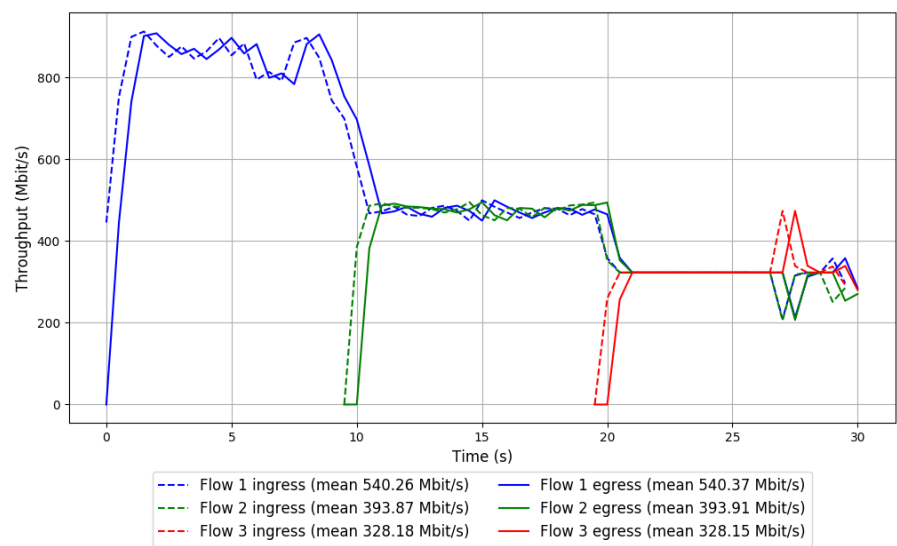
-- Flow 3:

Average throughput: 328.15 Mbit/s

95th percentile per-packet one-way delay: 4.505 ms

Loss rate: 0.22%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-19 12:35:33

End at: 2018-06-19 12:36:03

Local clock offset: 3.69 ms

Remote clock offset: 4.391 ms

Below is generated by plot.py at 2018-06-19 13:49:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 895.32 Mbit/s

95th percentile per-packet one-way delay: 10.727 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 522.93 Mbit/s

95th percentile per-packet one-way delay: 11.020 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 399.39 Mbit/s

95th percentile per-packet one-way delay: 4.443 ms

Loss rate: 0.00%

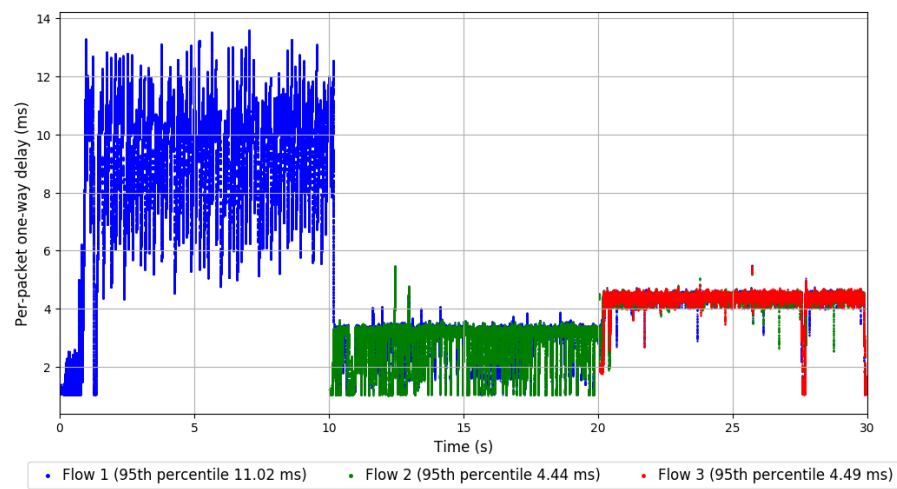
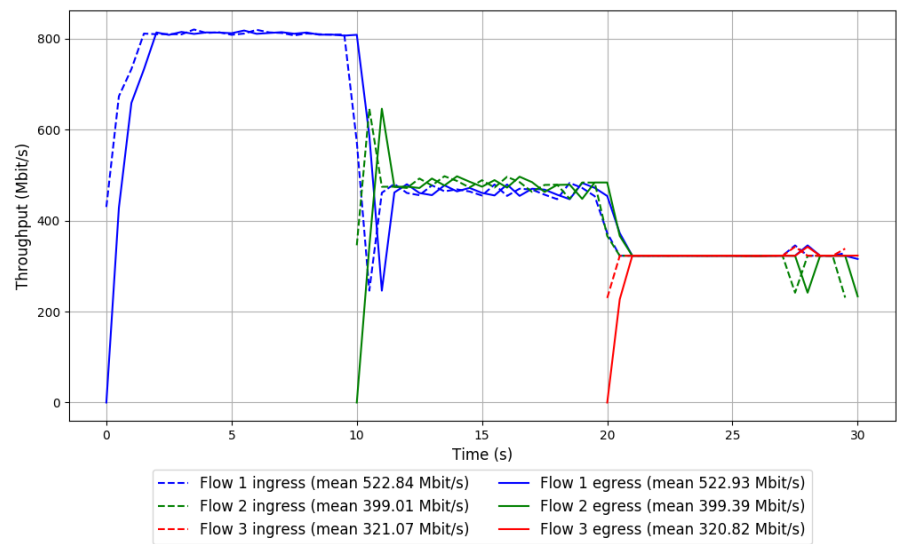
-- Flow 3:

Average throughput: 320.82 Mbit/s

95th percentile per-packet one-way delay: 4.494 ms

Loss rate: 0.28%

Run 9: Report of TCP BBR — Data Link

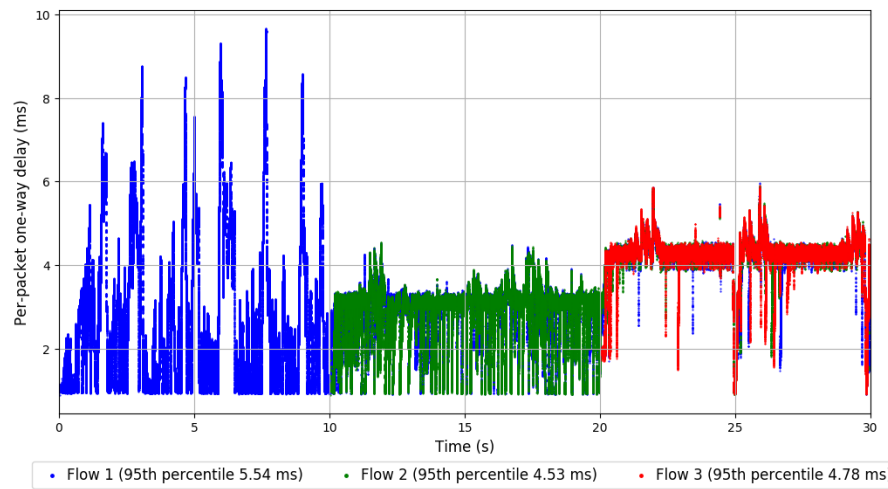
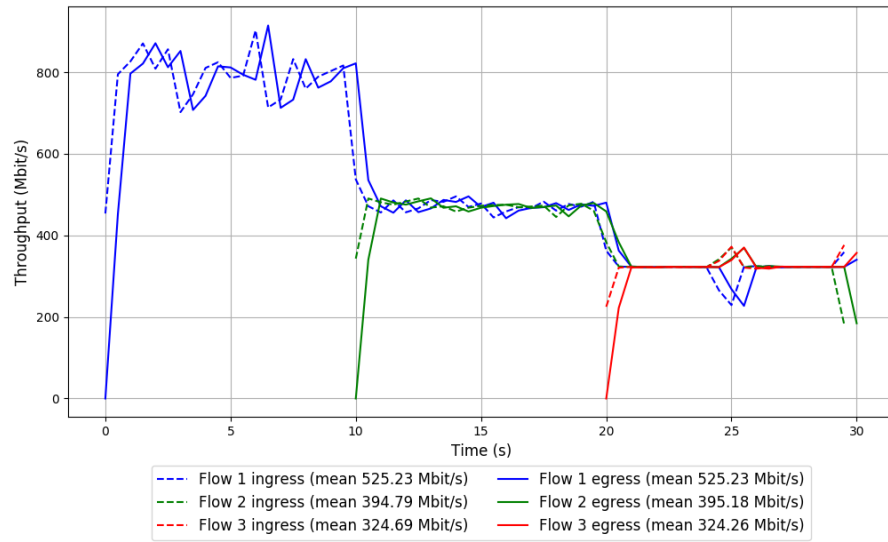


Run 10: Statistics of TCP BBR

Start at: 2018-06-19 13:00:43
End at: 2018-06-19 13:01:13
Local clock offset: 3.953 ms
Remote clock offset: -0.656 ms

Below is generated by plot.py at 2018-06-19 13:49:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 895.75 Mbit/s
95th percentile per-packet one-way delay: 4.995 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 525.23 Mbit/s
95th percentile per-packet one-way delay: 5.539 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 395.18 Mbit/s
95th percentile per-packet one-way delay: 4.526 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 324.26 Mbit/s
95th percentile per-packet one-way delay: 4.775 ms
Loss rate: 0.34%

Run 10: Report of TCP BBR — Data Link

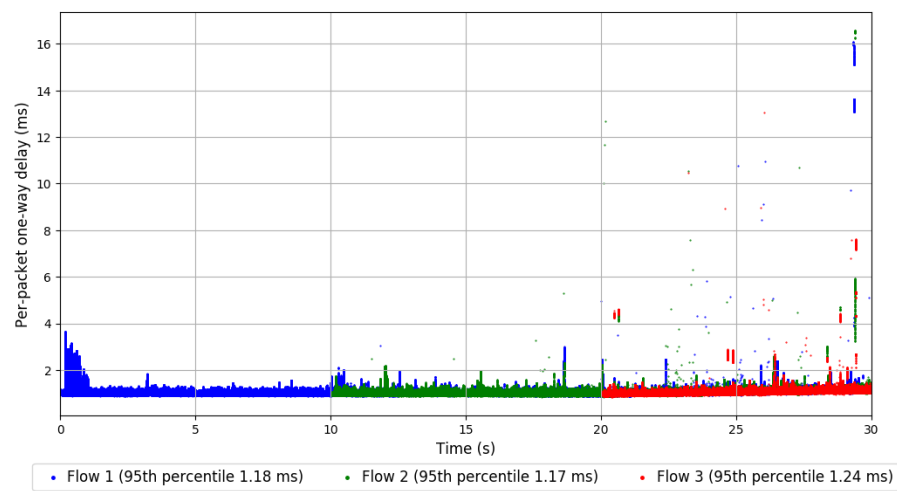
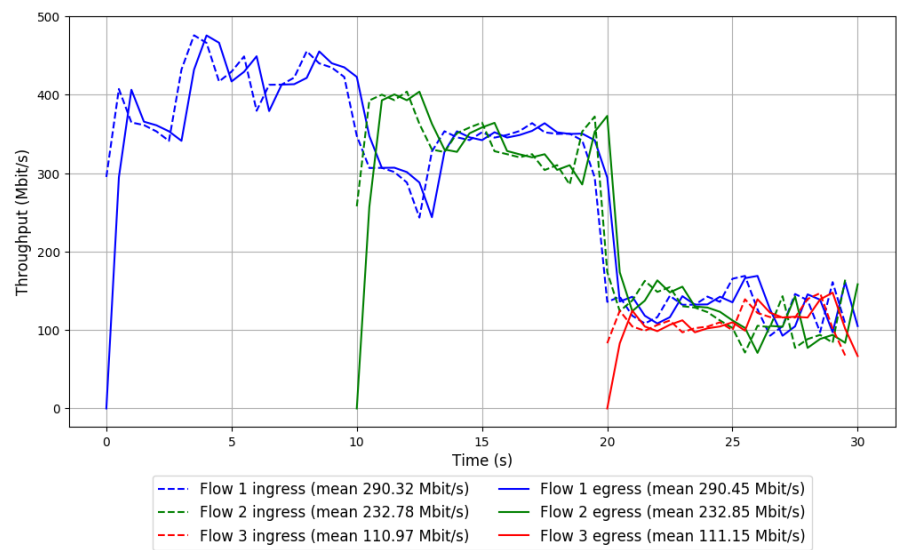


Run 1: Statistics of Copa

Start at: 2018-06-19 09:12:24
End at: 2018-06-19 09:12:54
Local clock offset: 3.487 ms
Remote clock offset: -4.511 ms

Below is generated by plot.py at 2018-06-19 13:49:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 482.26 Mbit/s
95th percentile per-packet one-way delay: 1.181 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 290.45 Mbit/s
95th percentile per-packet one-way delay: 1.175 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 232.85 Mbit/s
95th percentile per-packet one-way delay: 1.170 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 111.15 Mbit/s
95th percentile per-packet one-way delay: 1.236 ms
Loss rate: 0.05%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-19 09:37:36

End at: 2018-06-19 09:38:06

Local clock offset: 3.505 ms

Remote clock offset: 4.387 ms

Below is generated by plot.py at 2018-06-19 13:49:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 470.38 Mbit/s

95th percentile per-packet one-way delay: 1.224 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 272.71 Mbit/s

95th percentile per-packet one-way delay: 1.286 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 231.69 Mbit/s

95th percentile per-packet one-way delay: 1.107 ms

Loss rate: 0.04%

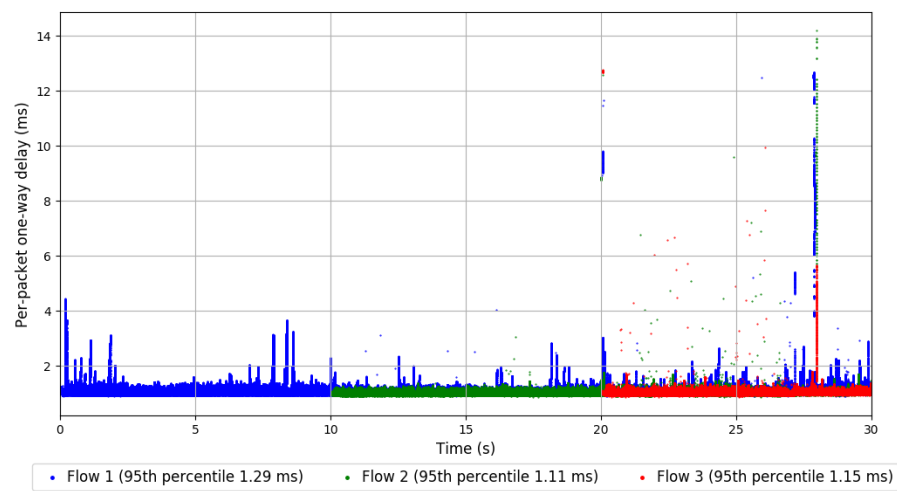
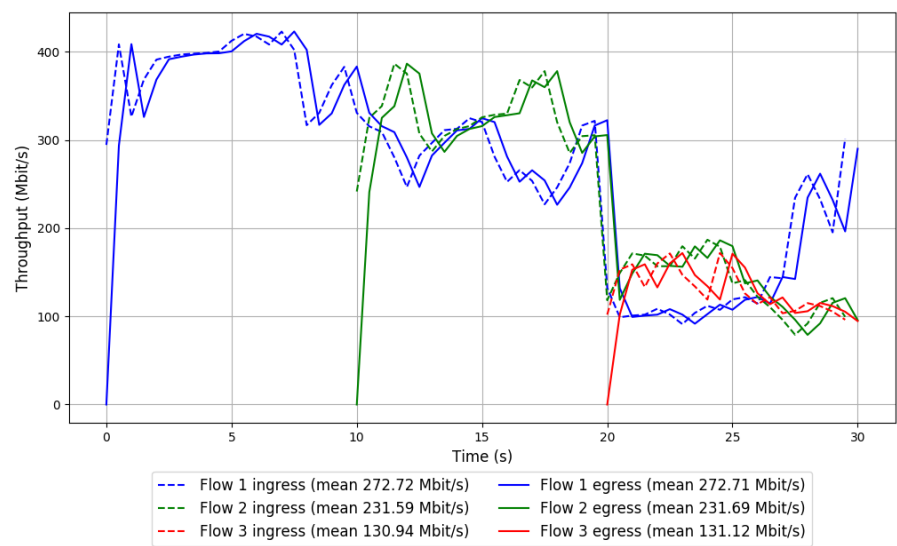
-- Flow 3:

Average throughput: 131.12 Mbit/s

95th percentile per-packet one-way delay: 1.148 ms

Loss rate: 0.08%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-19 10:02:38

End at: 2018-06-19 10:03:08

Local clock offset: 3.654 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-06-19 13:49:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 454.50 Mbit/s

95th percentile per-packet one-way delay: 1.127 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 263.45 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 215.31 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.08%

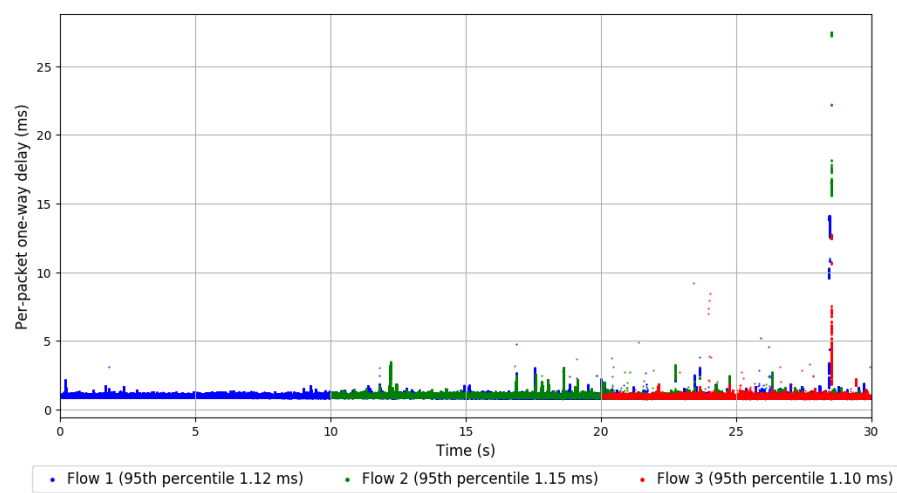
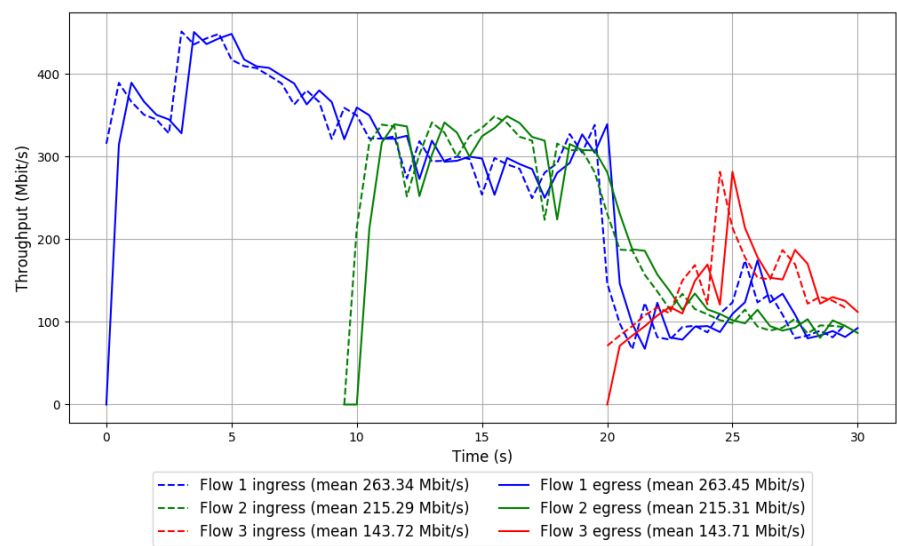
-- Flow 3:

Average throughput: 143.71 Mbit/s

95th percentile per-packet one-way delay: 1.097 ms

Loss rate: 0.21%

Run 3: Report of Copa — Data Link

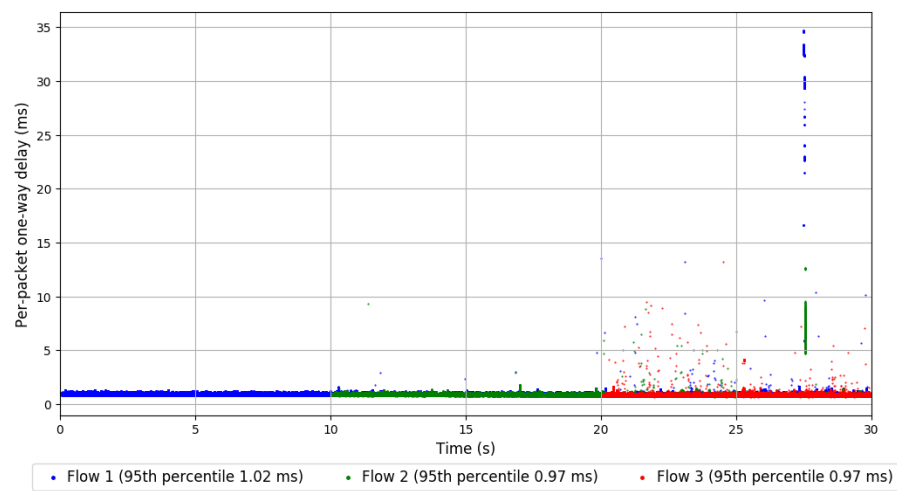
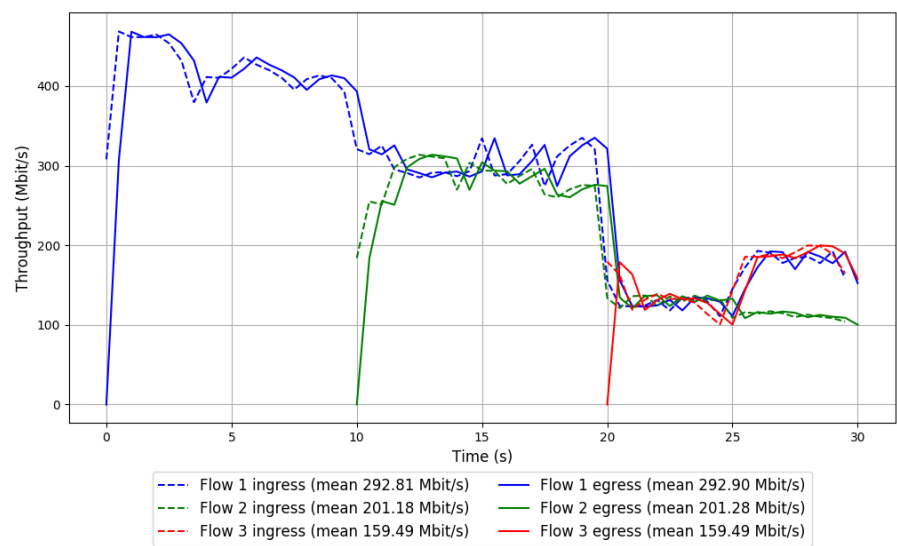


Run 4: Statistics of Copa

Start at: 2018-06-19 10:27:37
End at: 2018-06-19 10:28:07
Local clock offset: 3.6 ms
Remote clock offset: -2.721 ms

Below is generated by plot.py at 2018-06-19 13:49:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 479.66 Mbit/s
95th percentile per-packet one-way delay: 1.010 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 292.90 Mbit/s
95th percentile per-packet one-way delay: 1.025 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 201.28 Mbit/s
95th percentile per-packet one-way delay: 0.967 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 159.49 Mbit/s
95th percentile per-packet one-way delay: 0.974 ms
Loss rate: 0.21%

Run 4: Report of Copa — Data Link

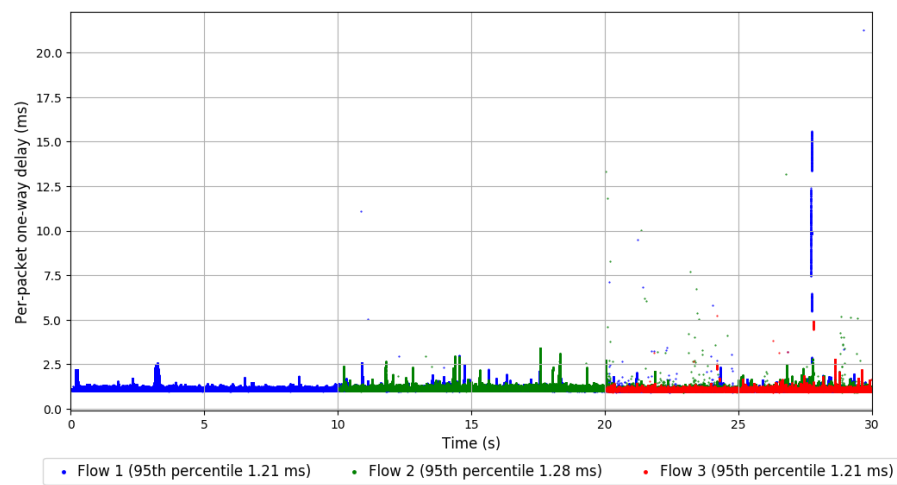
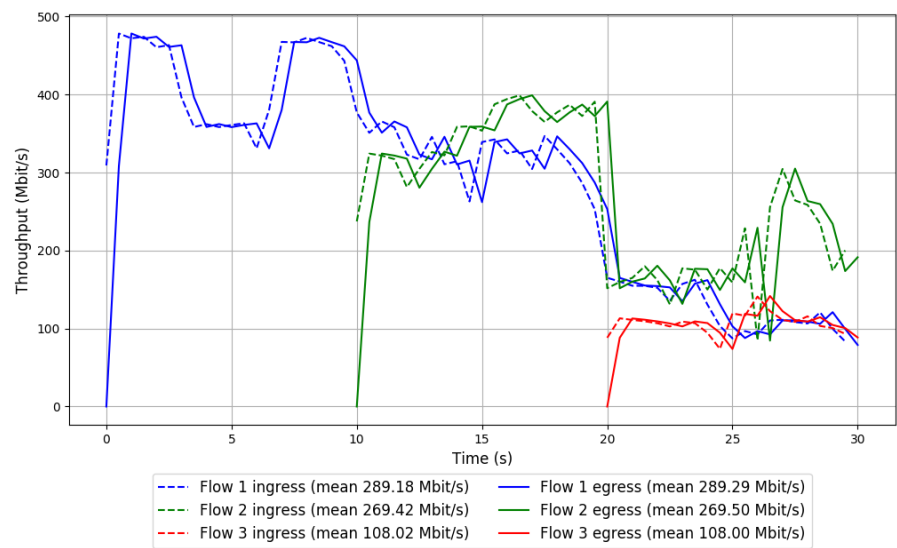


Run 5: Statistics of Copa

Start at: 2018-06-19 10:52:49
End at: 2018-06-19 10:53:19
Local clock offset: 3.603 ms
Remote clock offset: -5.221 ms

```
# Below is generated by plot.py at 2018-06-19 13:50:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 504.39 Mbit/s
95th percentile per-packet one-way delay: 1.245 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 289.29 Mbit/s
95th percentile per-packet one-way delay: 1.214 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 269.50 Mbit/s
95th percentile per-packet one-way delay: 1.285 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 108.00 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 0.21%
```

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-19 11:18:05

End at: 2018-06-19 11:18:35

Local clock offset: 3.704 ms

Remote clock offset: 3.334 ms

Below is generated by plot.py at 2018-06-19 13:50:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 454.98 Mbit/s

95th percentile per-packet one-way delay: 2.604 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 264.19 Mbit/s

95th percentile per-packet one-way delay: 2.459 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 234.08 Mbit/s

95th percentile per-packet one-way delay: 3.053 ms

Loss rate: 0.09%

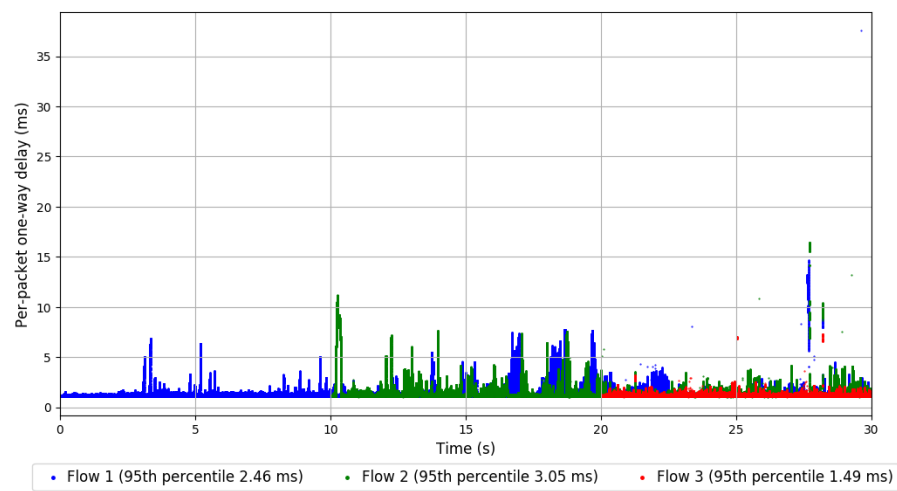
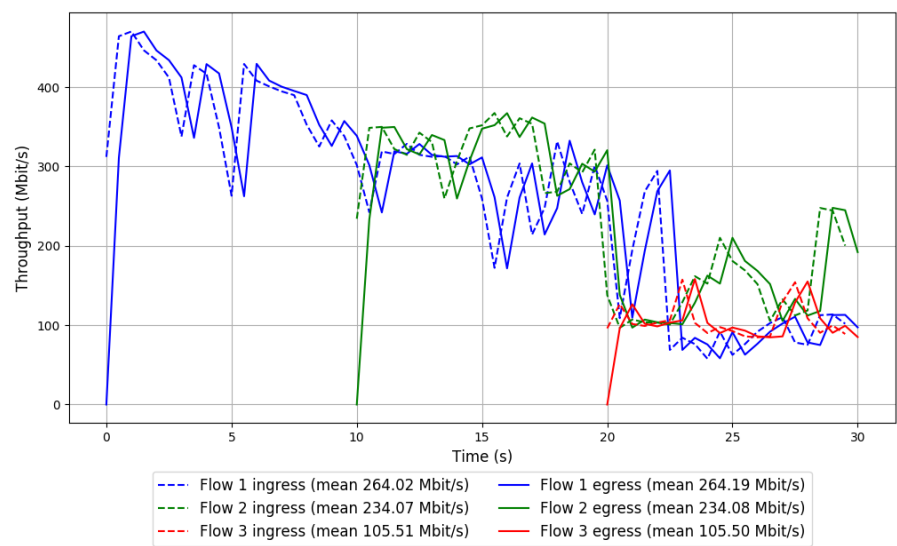
-- Flow 3:

Average throughput: 105.50 Mbit/s

95th percentile per-packet one-way delay: 1.492 ms

Loss rate: 0.20%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-19 11:43:11

End at: 2018-06-19 11:43:41

Local clock offset: 3.656 ms

Remote clock offset: 0.554 ms

Below is generated by plot.py at 2018-06-19 13:58:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 469.17 Mbit/s

95th percentile per-packet one-way delay: 1.310 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 259.96 Mbit/s

95th percentile per-packet one-way delay: 1.402 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 264.00 Mbit/s

95th percentile per-packet one-way delay: 1.206 ms

Loss rate: 0.06%

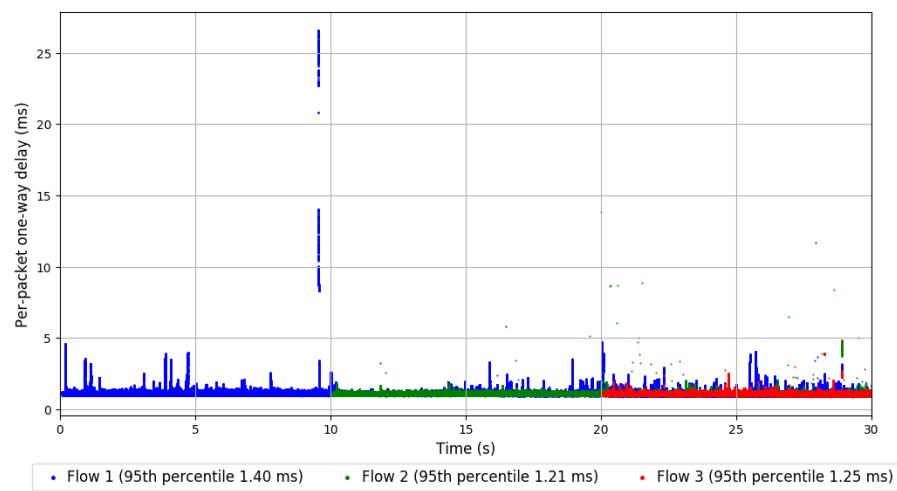
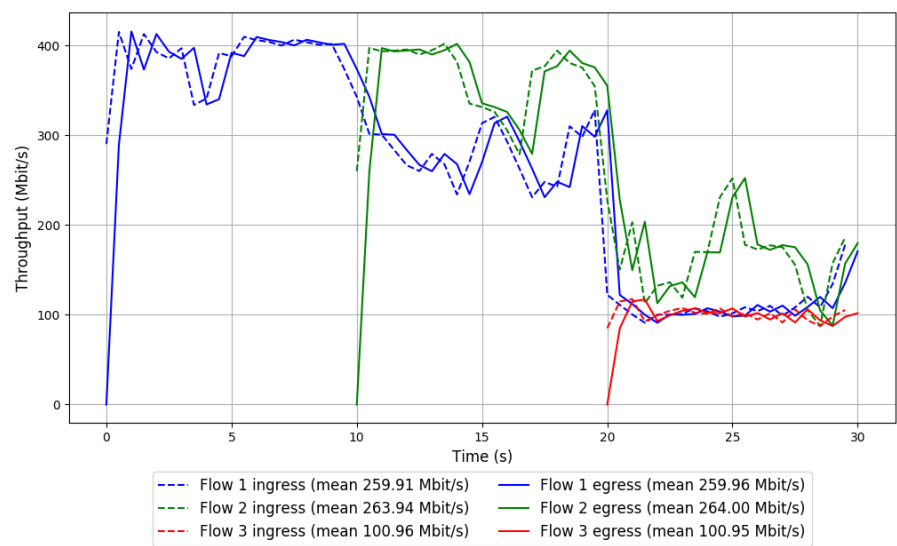
-- Flow 3:

Average throughput: 100.95 Mbit/s

95th percentile per-packet one-way delay: 1.249 ms

Loss rate: 0.20%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-19 12:08:22

End at: 2018-06-19 12:08:52

Local clock offset: 3.53 ms

Remote clock offset: 1.189 ms

Below is generated by plot.py at 2018-06-19 13:59:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 504.89 Mbit/s

95th percentile per-packet one-way delay: 1.207 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 302.37 Mbit/s

95th percentile per-packet one-way delay: 1.193 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 247.25 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.06%

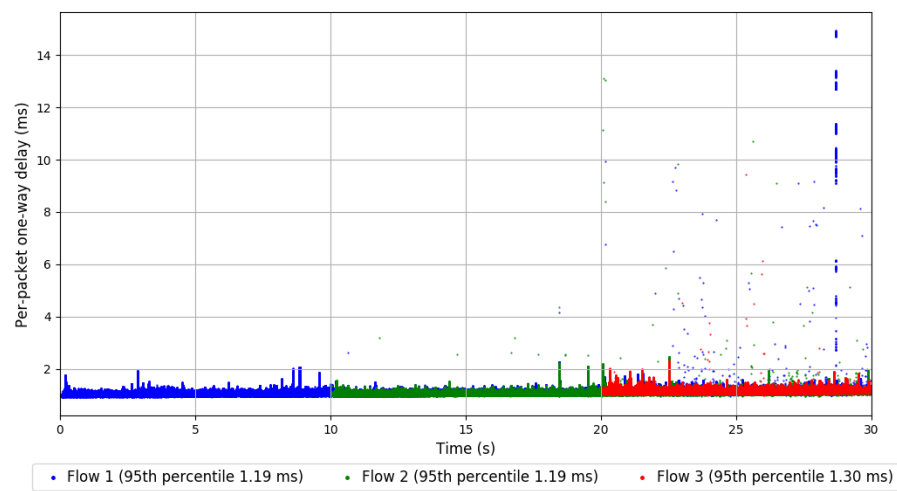
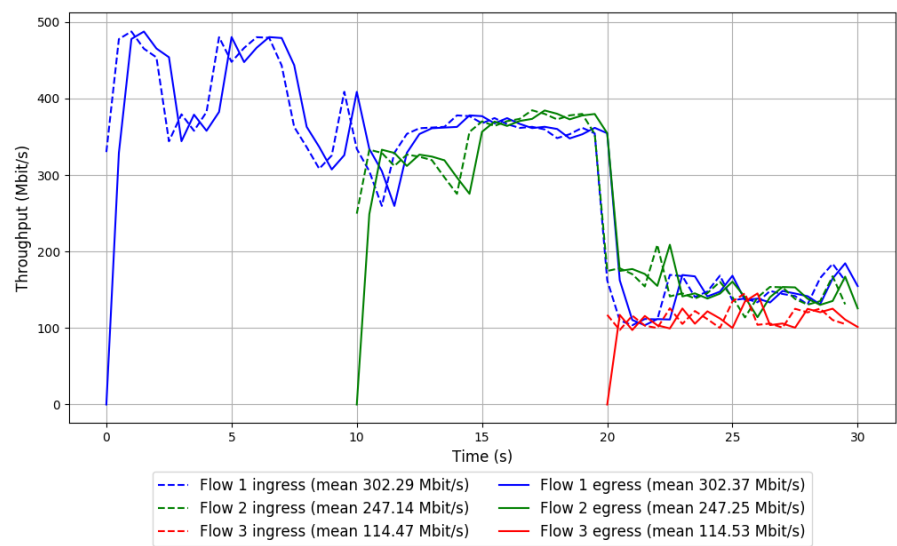
-- Flow 3:

Average throughput: 114.53 Mbit/s

95th percentile per-packet one-way delay: 1.304 ms

Loss rate: 0.17%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-19 12:33:43

End at: 2018-06-19 12:34:13

Local clock offset: 3.643 ms

Remote clock offset: 4.302 ms

Below is generated by plot.py at 2018-06-19 14:00:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 511.22 Mbit/s

95th percentile per-packet one-way delay: 1.245 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 307.82 Mbit/s

95th percentile per-packet one-way delay: 1.253 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 251.27 Mbit/s

95th percentile per-packet one-way delay: 1.219 ms

Loss rate: 0.05%

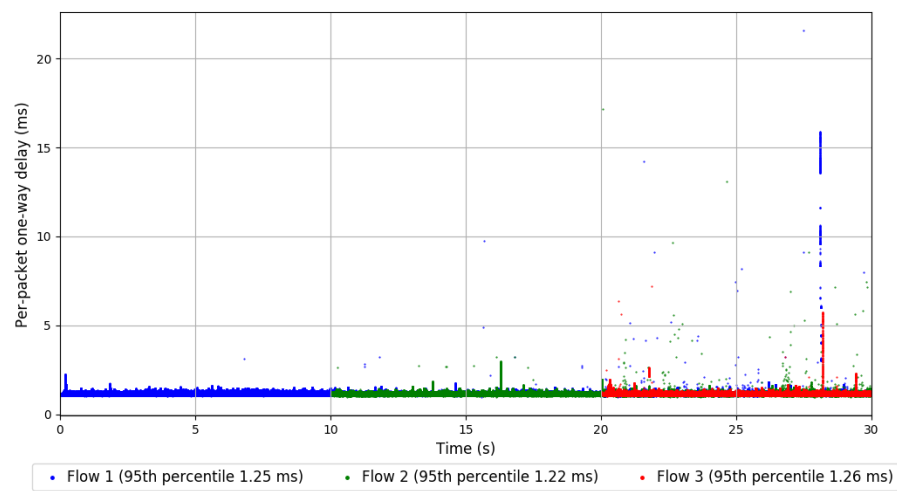
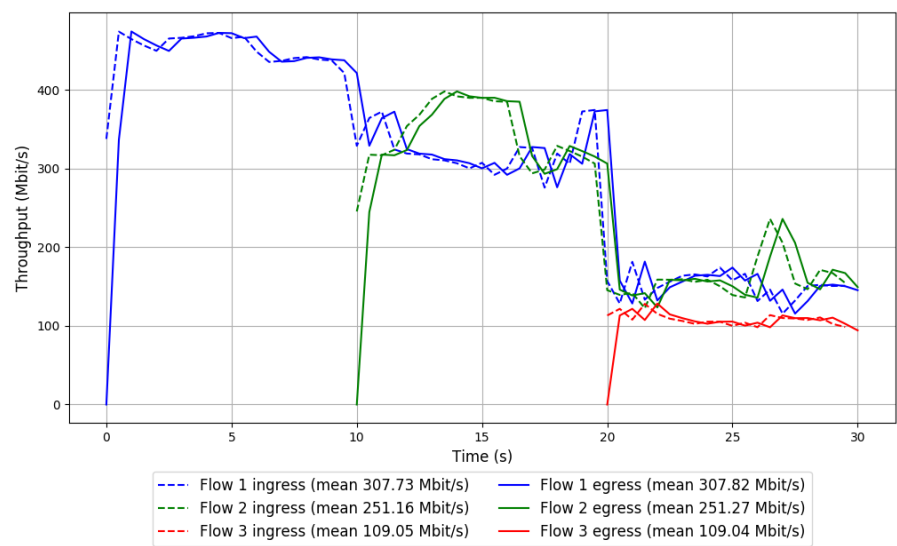
-- Flow 3:

Average throughput: 109.04 Mbit/s

95th percentile per-packet one-way delay: 1.256 ms

Loss rate: 0.22%

Run 9: Report of Copa — Data Link

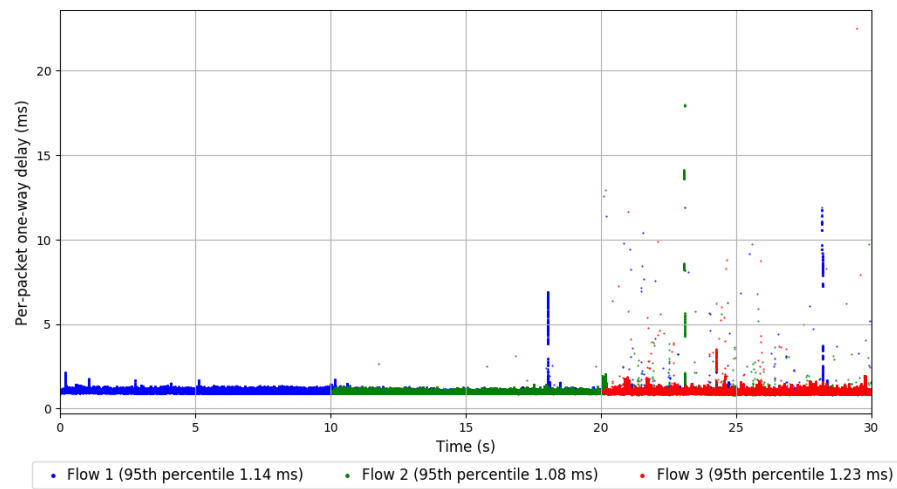
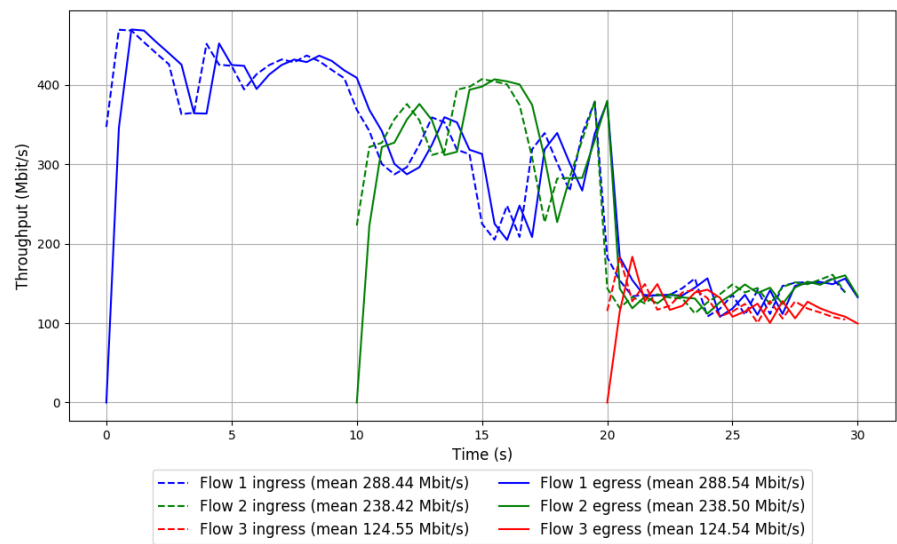


Run 10: Statistics of Copa

Start at: 2018-06-19 12:58:54
End at: 2018-06-19 12:59:24
Local clock offset: 3.934 ms
Remote clock offset: -0.524 ms

Below is generated by plot.py at 2018-06-19 14:00:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 488.51 Mbit/s
95th percentile per-packet one-way delay: 1.133 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 288.54 Mbit/s
95th percentile per-packet one-way delay: 1.143 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 238.50 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 124.54 Mbit/s
95th percentile per-packet one-way delay: 1.231 ms
Loss rate: 0.22%

Run 10: Report of Copa — Data Link

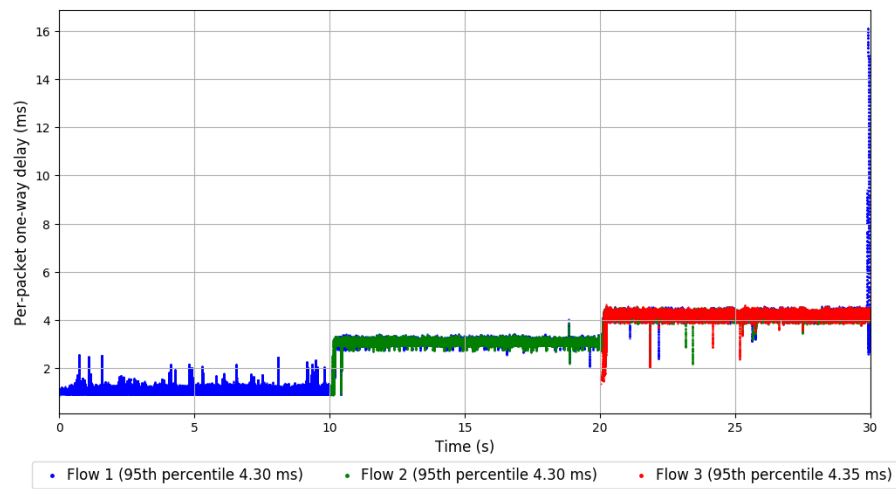
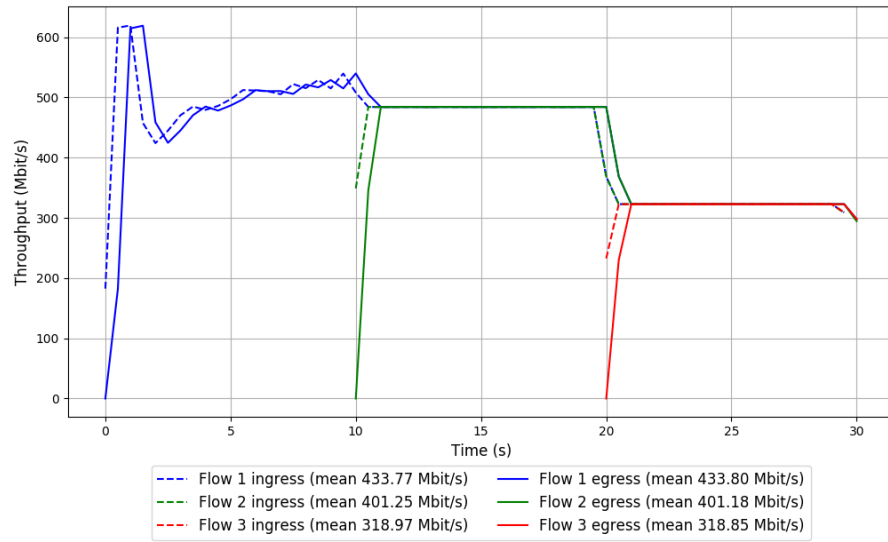


Run 1: Statistics of TCP Cubic

Start at: 2018-06-19 09:06:02
End at: 2018-06-19 09:06:32
Local clock offset: 3.512 ms
Remote clock offset: -4.129 ms

Below is generated by plot.py at 2018-06-19 14:00:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 806.69 Mbit/s
95th percentile per-packet one-way delay: 4.312 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 433.80 Mbit/s
95th percentile per-packet one-way delay: 4.302 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 401.18 Mbit/s
95th percentile per-packet one-way delay: 4.296 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 318.85 Mbit/s
95th percentile per-packet one-way delay: 4.351 ms
Loss rate: 0.22%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-19 09:31:13

End at: 2018-06-19 09:31:43

Local clock offset: 3.431 ms

Remote clock offset: 3.46 ms

Below is generated by plot.py at 2018-06-19 14:00:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 816.04 Mbit/s

95th percentile per-packet one-way delay: 4.398 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 449.04 Mbit/s

95th percentile per-packet one-way delay: 4.356 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 391.50 Mbit/s

95th percentile per-packet one-way delay: 4.413 ms

Loss rate: 0.09%

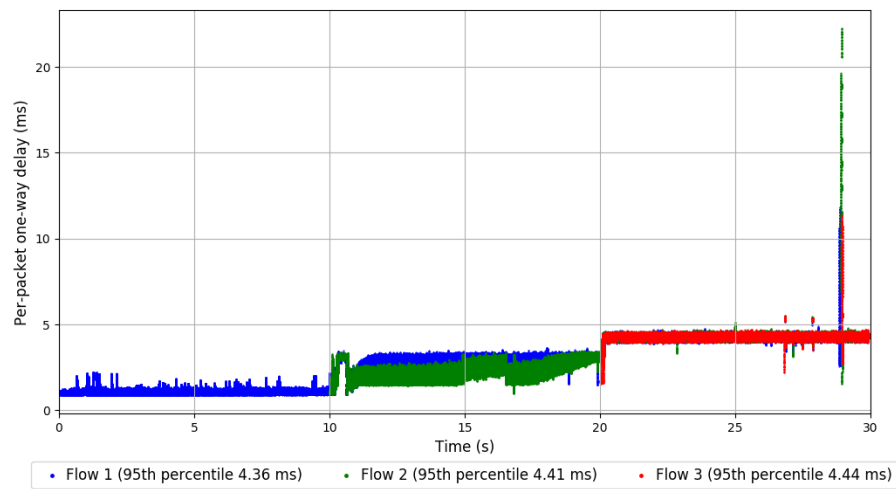
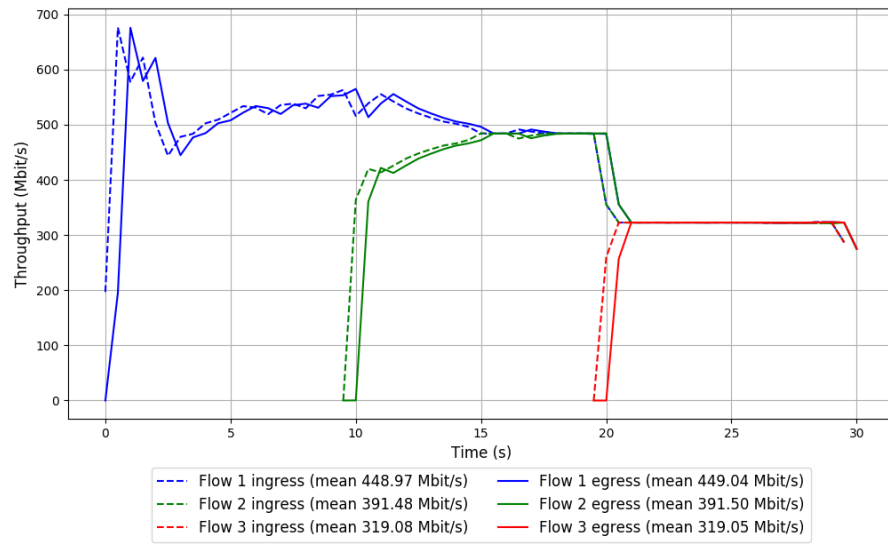
-- Flow 3:

Average throughput: 319.05 Mbit/s

95th percentile per-packet one-way delay: 4.442 ms

Loss rate: 0.22%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-19 09:56:24

End at: 2018-06-19 09:56:54

Local clock offset: 3.64 ms

Remote clock offset: 1.283 ms

Below is generated by plot.py at 2018-06-19 14:00:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 804.43 Mbit/s

95th percentile per-packet one-way delay: 4.248 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 437.41 Mbit/s

95th percentile per-packet one-way delay: 4.225 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 391.98 Mbit/s

95th percentile per-packet one-way delay: 4.241 ms

Loss rate: 0.09%

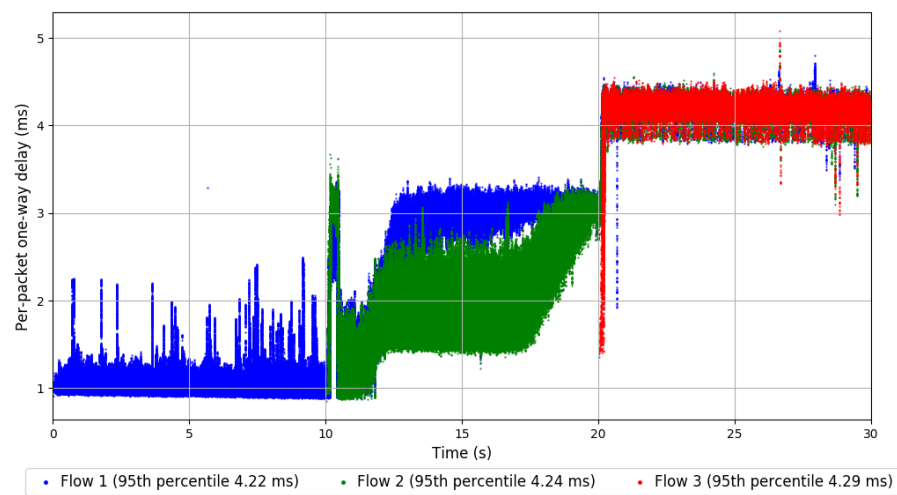
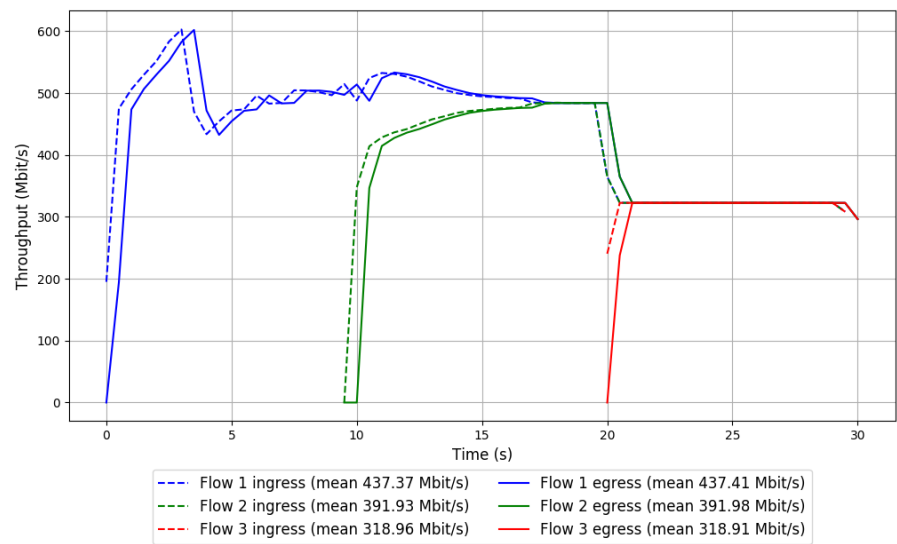
-- Flow 3:

Average throughput: 318.91 Mbit/s

95th percentile per-packet one-way delay: 4.291 ms

Loss rate: 0.23%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-19 10:21:27

End at: 2018-06-19 10:21:57

Local clock offset: 3.583 ms

Remote clock offset: -1.54 ms

Below is generated by plot.py at 2018-06-19 14:00:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 778.98 Mbit/s

95th percentile per-packet one-way delay: 4.211 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 403.21 Mbit/s

95th percentile per-packet one-way delay: 4.172 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 404.84 Mbit/s

95th percentile per-packet one-way delay: 4.224 ms

Loss rate: 0.09%

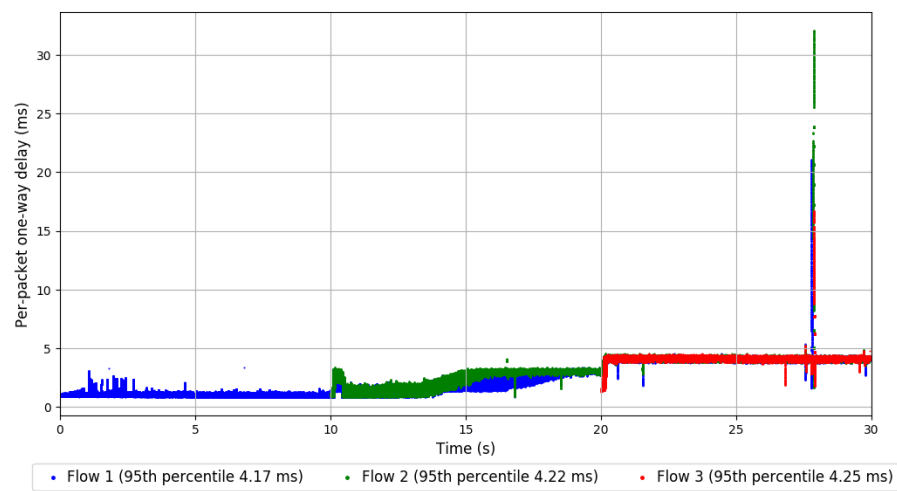
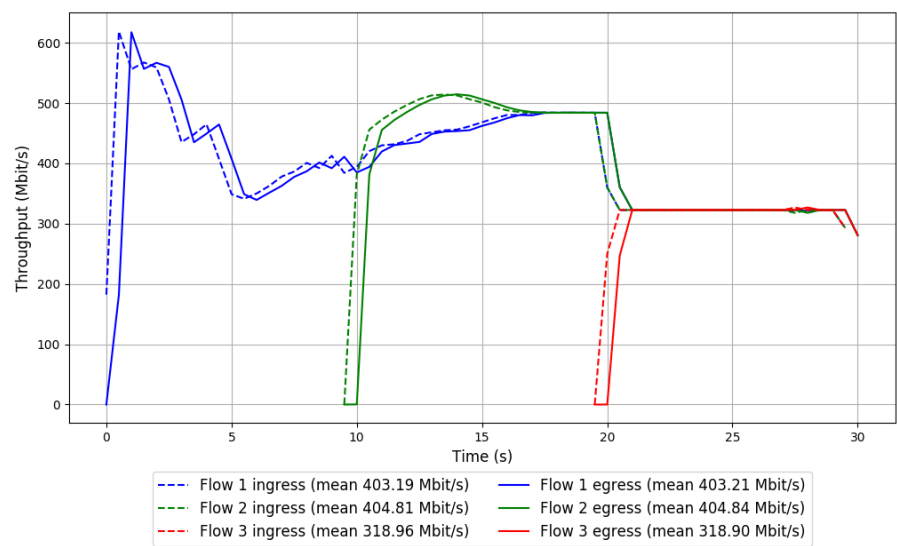
-- Flow 3:

Average throughput: 318.90 Mbit/s

95th percentile per-packet one-way delay: 4.251 ms

Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-19 10:46:28

End at: 2018-06-19 10:46:58

Local clock offset: 3.589 ms

Remote clock offset: -4.69 ms

Below is generated by plot.py at 2018-06-19 14:07:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 863.08 Mbit/s

95th percentile per-packet one-way delay: 14.111 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 495.09 Mbit/s

95th percentile per-packet one-way delay: 14.841 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 393.08 Mbit/s

95th percentile per-packet one-way delay: 4.338 ms

Loss rate: 0.09%

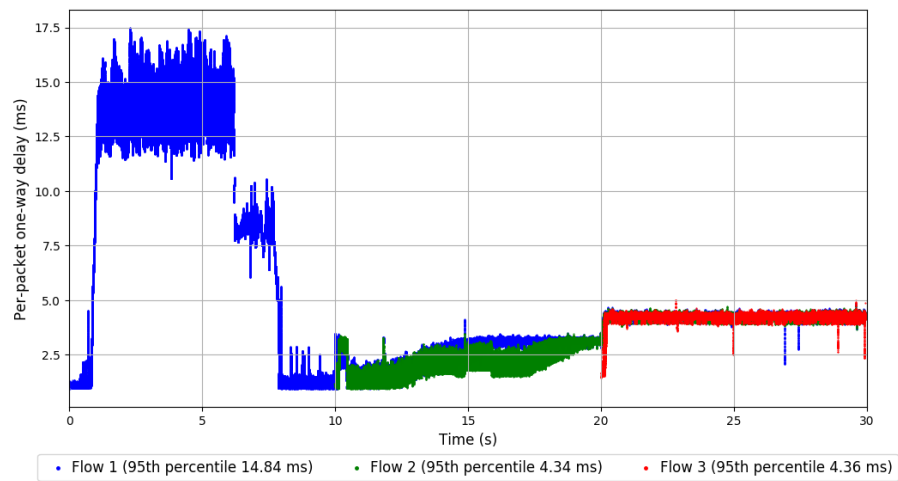
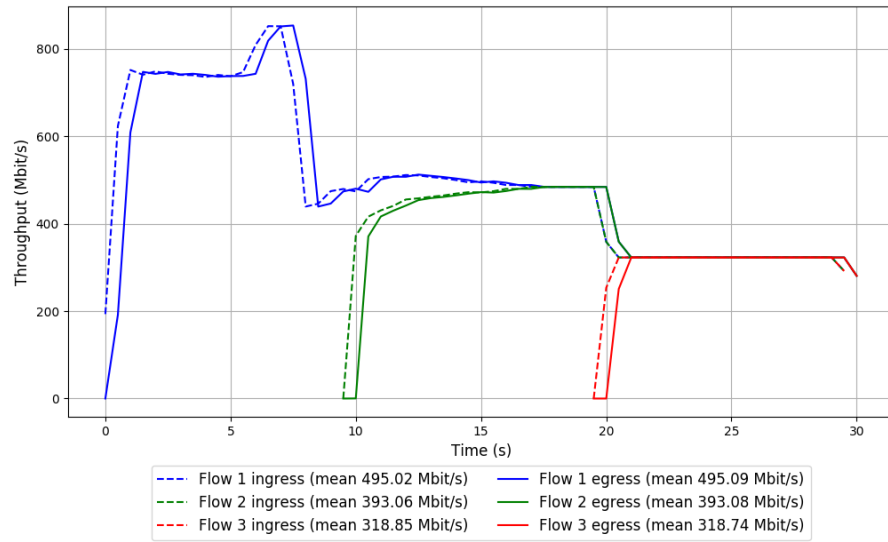
-- Flow 3:

Average throughput: 318.74 Mbit/s

95th percentile per-packet one-way delay: 4.361 ms

Loss rate: 0.22%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-19 11:11:42

End at: 2018-06-19 11:12:12

Local clock offset: 3.575 ms

Remote clock offset: 2.42 ms

Below is generated by plot.py at 2018-06-19 14:07:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 834.00 Mbit/s

95th percentile per-packet one-way delay: 6.644 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 459.83 Mbit/s

95th percentile per-packet one-way delay: 12.550 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 402.52 Mbit/s

95th percentile per-packet one-way delay: 4.423 ms

Loss rate: 0.09%

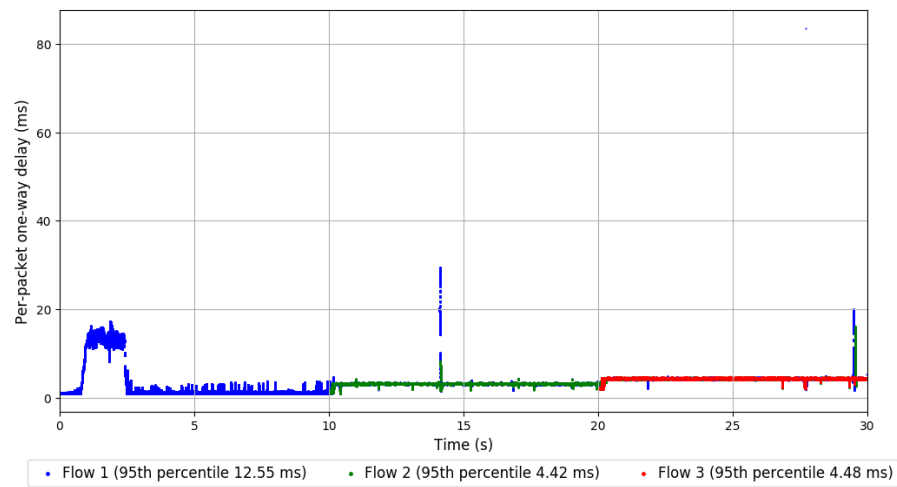
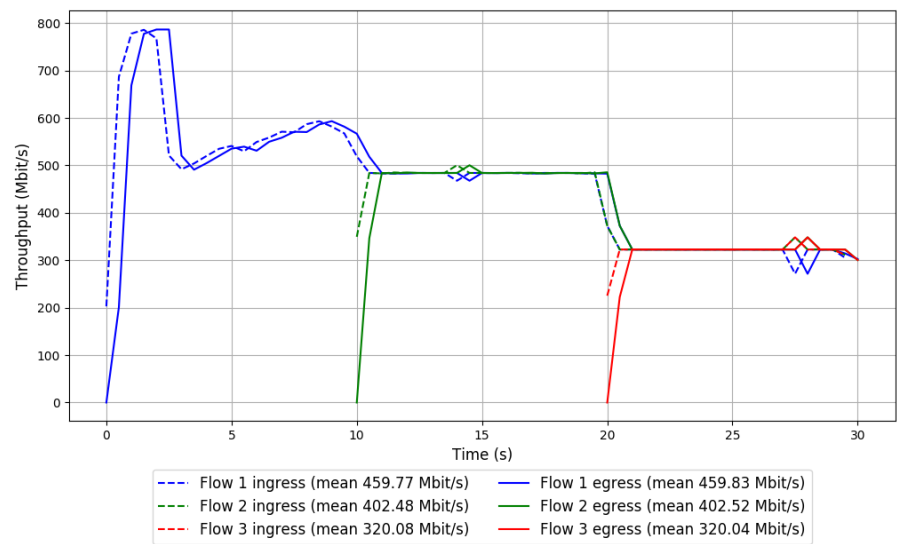
-- Flow 3:

Average throughput: 320.04 Mbit/s

95th percentile per-packet one-way delay: 4.479 ms

Loss rate: 0.22%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-19 11:36:58

End at: 2018-06-19 11:37:28

Local clock offset: 3.713 ms

Remote clock offset: 1.723 ms

Below is generated by plot.py at 2018-06-19 14:07:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 798.29 Mbit/s

95th percentile per-packet one-way delay: 4.245 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 418.81 Mbit/s

95th percentile per-packet one-way delay: 4.223 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 409.79 Mbit/s

95th percentile per-packet one-way delay: 4.229 ms

Loss rate: 0.08%

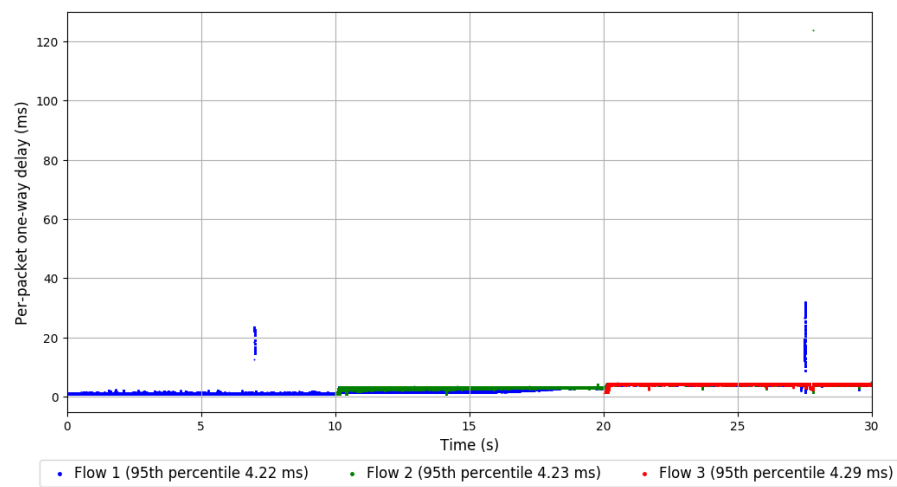
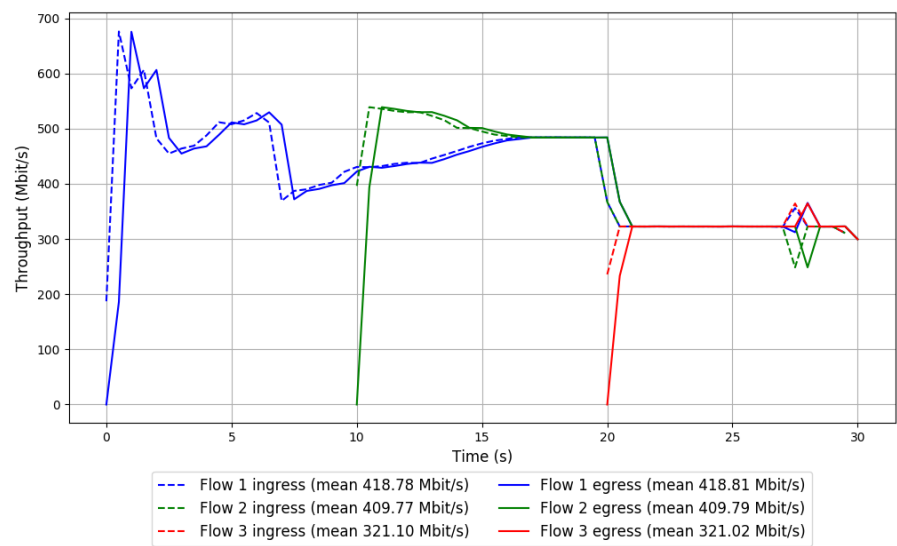
-- Flow 3:

Average throughput: 321.02 Mbit/s

95th percentile per-packet one-way delay: 4.295 ms

Loss rate: 0.22%

Run 7: Report of TCP Cubic — Data Link

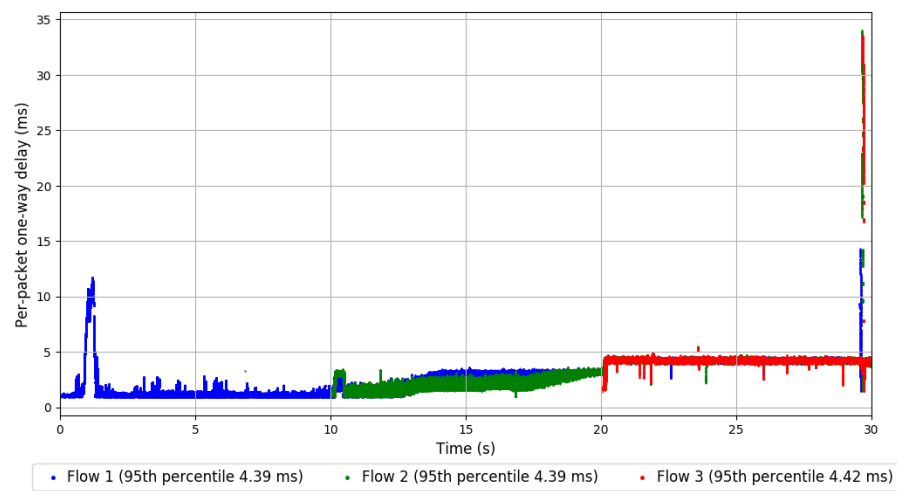
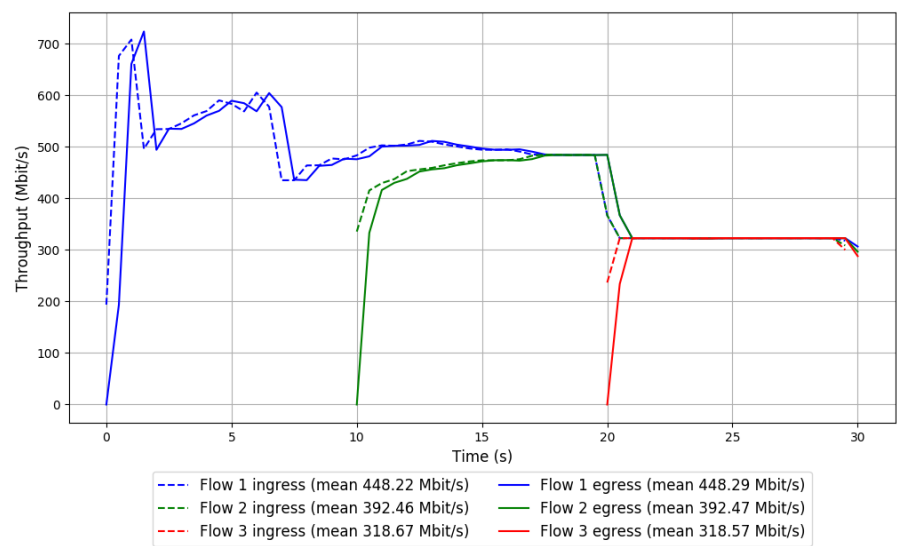


Run 8: Statistics of TCP Cubic

Start at: 2018-06-19 12:02:01
End at: 2018-06-19 12:02:31
Local clock offset: 3.526 ms
Remote clock offset: -0.493 ms

Below is generated by plot.py at 2018-06-19 14:07:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 815.21 Mbit/s
95th percentile per-packet one-way delay: 4.393 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 448.29 Mbit/s
95th percentile per-packet one-way delay: 4.387 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 392.47 Mbit/s
95th percentile per-packet one-way delay: 4.386 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 318.57 Mbit/s
95th percentile per-packet one-way delay: 4.419 ms
Loss rate: 0.23%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-19 12:27:20

End at: 2018-06-19 12:27:50

Local clock offset: 3.609 ms

Remote clock offset: 3.892 ms

Below is generated by plot.py at 2018-06-19 14:07:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 810.90 Mbit/s

95th percentile per-packet one-way delay: 4.436 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 442.15 Mbit/s

95th percentile per-packet one-way delay: 4.404 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 394.47 Mbit/s

95th percentile per-packet one-way delay: 4.437 ms

Loss rate: 0.09%

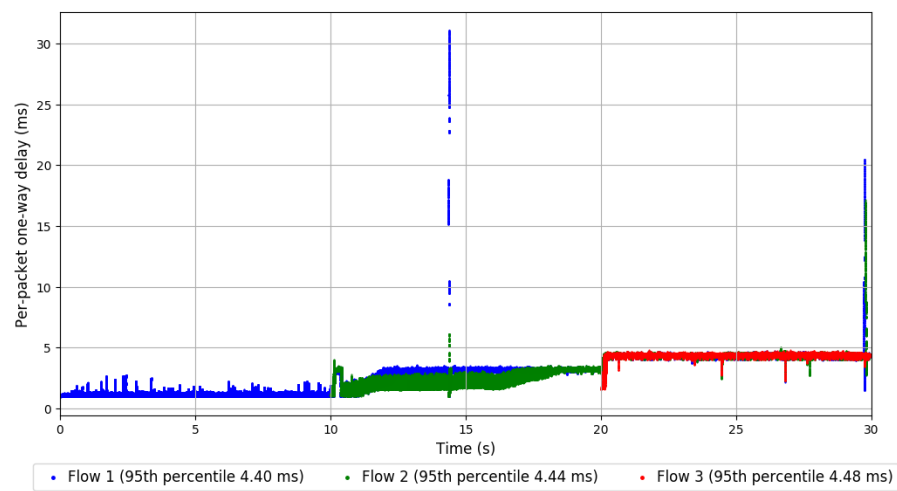
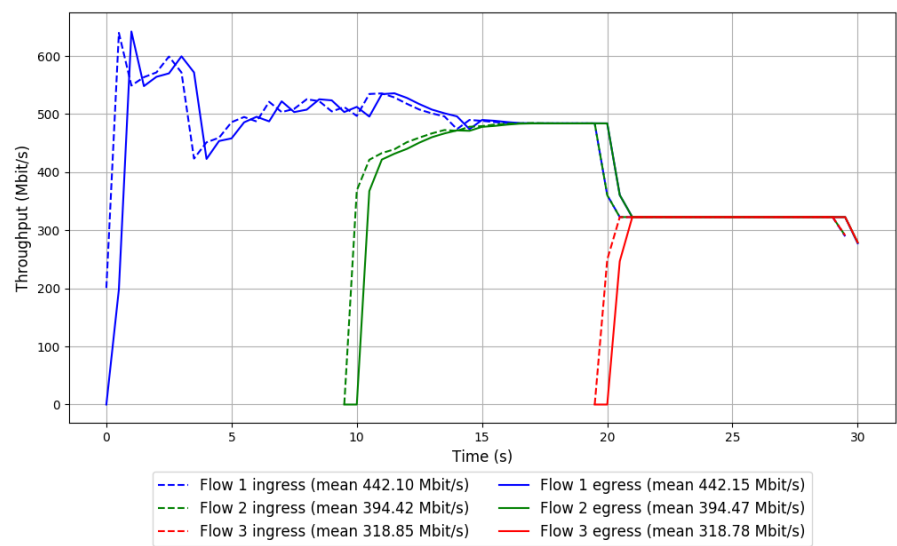
-- Flow 3:

Average throughput: 318.78 Mbit/s

95th percentile per-packet one-way delay: 4.479 ms

Loss rate: 0.23%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-19 12:52:41

End at: 2018-06-19 12:53:11

Local clock offset: 3.91 ms

Remote clock offset: 0.125 ms

Below is generated by plot.py at 2018-06-19 14:08:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 784.47 Mbit/s

95th percentile per-packet one-way delay: 4.285 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 410.43 Mbit/s

95th percentile per-packet one-way delay: 4.262 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 402.95 Mbit/s

95th percentile per-packet one-way delay: 4.295 ms

Loss rate: 0.09%

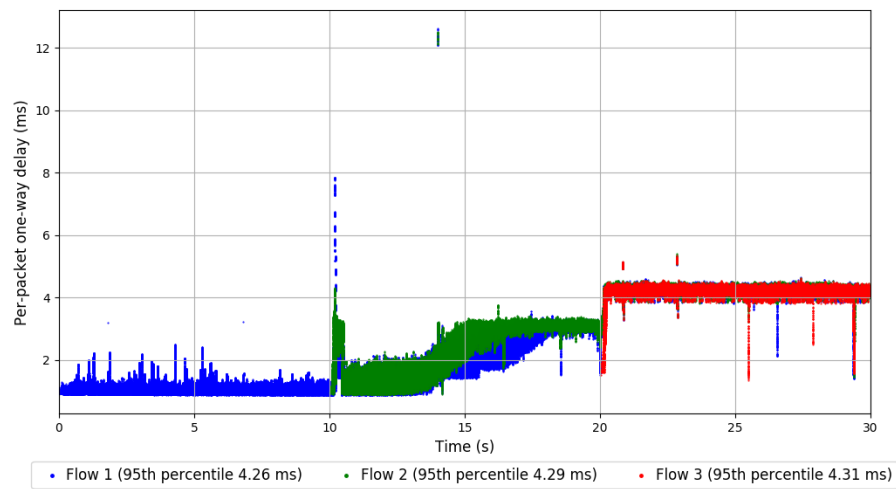
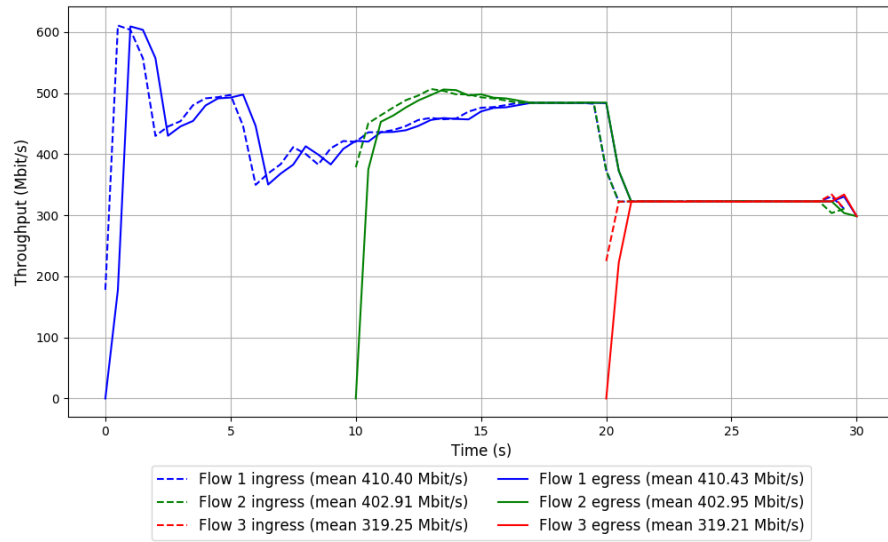
-- Flow 3:

Average throughput: 319.21 Mbit/s

95th percentile per-packet one-way delay: 4.312 ms

Loss rate: 0.23%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-19 09:04:17

End at: 2018-06-19 09:04:47

Local clock offset: 3.533 ms

Remote clock offset: -3.96 ms

Below is generated by plot.py at 2018-06-19 14:12:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 941.33 Mbit/s

95th percentile per-packet one-way delay: 3.789 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 581.93 Mbit/s

95th percentile per-packet one-way delay: 3.435 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 390.19 Mbit/s

95th percentile per-packet one-way delay: 5.059 ms

Loss rate: 0.09%

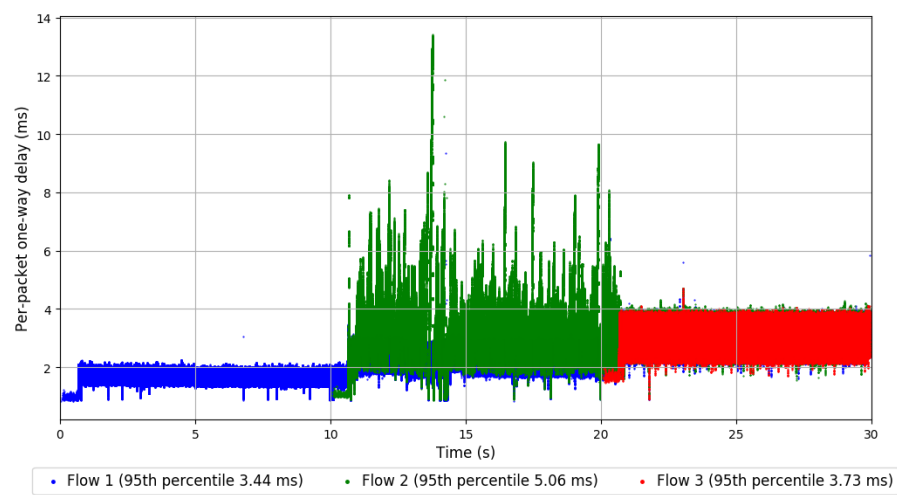
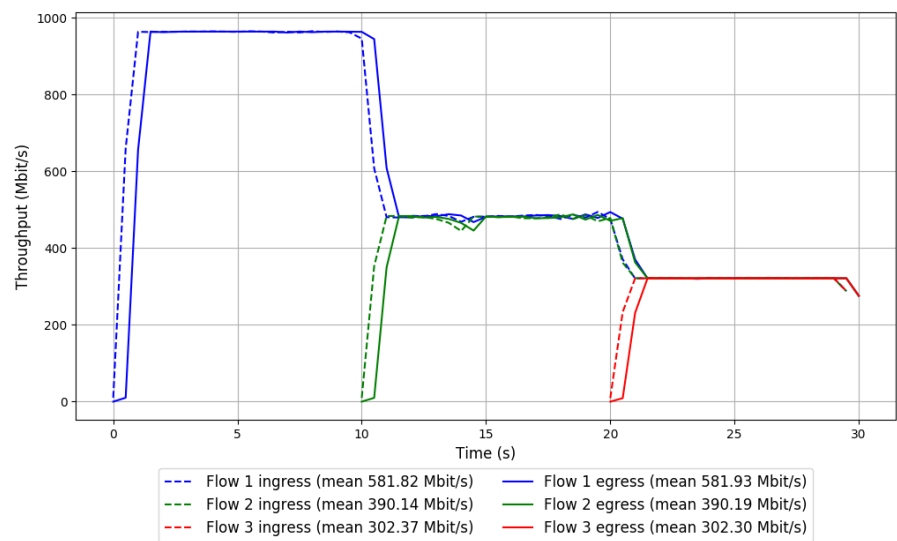
-- Flow 3:

Average throughput: 302.30 Mbit/s

95th percentile per-packet one-way delay: 3.733 ms

Loss rate: 0.24%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-19 09:29:31

End at: 2018-06-19 09:30:01

Local clock offset: 3.526 ms

Remote clock offset: 3.178 ms

Below is generated by plot.py at 2018-06-19 14:12:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 881.00 Mbit/s

95th percentile per-packet one-way delay: 3.810 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 522.75 Mbit/s

95th percentile per-packet one-way delay: 3.595 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 386.74 Mbit/s

95th percentile per-packet one-way delay: 3.800 ms

Loss rate: 0.09%

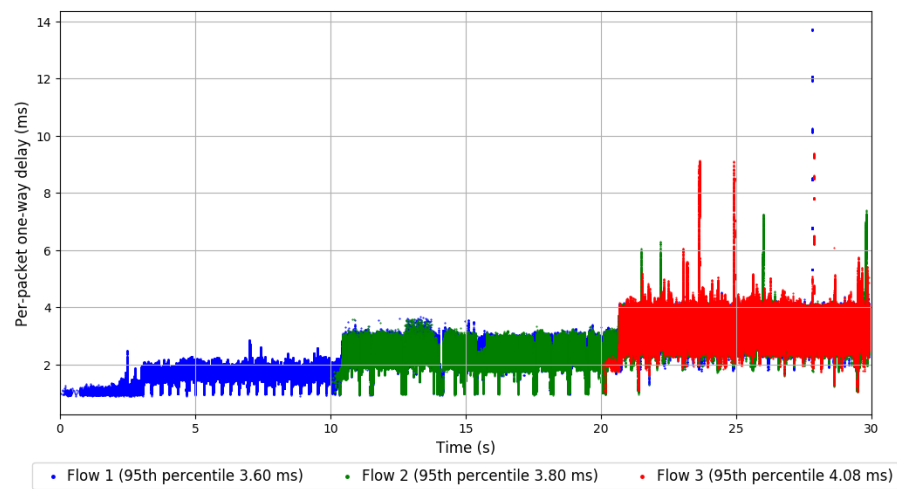
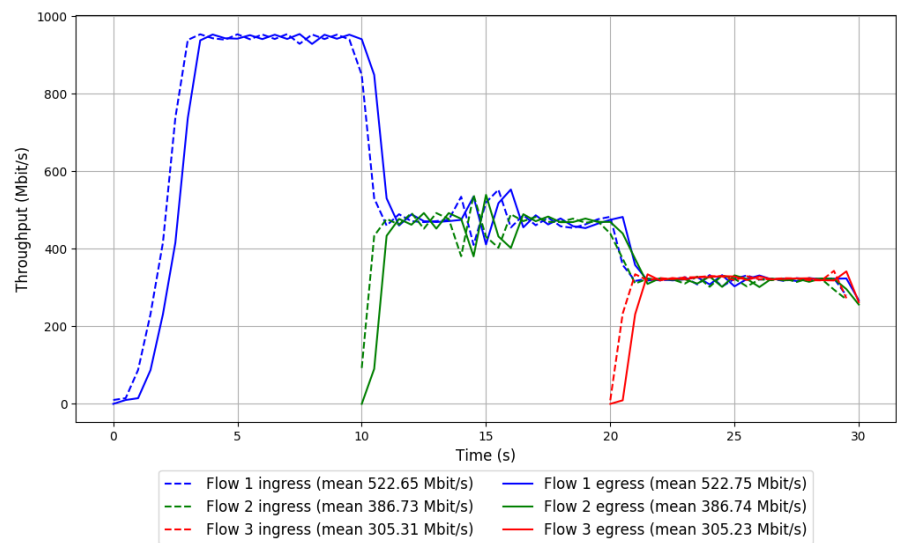
-- Flow 3:

Average throughput: 305.23 Mbit/s

95th percentile per-packet one-way delay: 4.080 ms

Loss rate: 0.23%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-19 09:54:40

End at: 2018-06-19 09:55:10

Local clock offset: 3.626 ms

Remote clock offset: 1.779 ms

Below is generated by plot.py at 2018-06-19 14:19:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 939.46 Mbit/s

95th percentile per-packet one-way delay: 3.544 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 577.08 Mbit/s

95th percentile per-packet one-way delay: 3.417 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 395.88 Mbit/s

95th percentile per-packet one-way delay: 3.552 ms

Loss rate: 0.09%

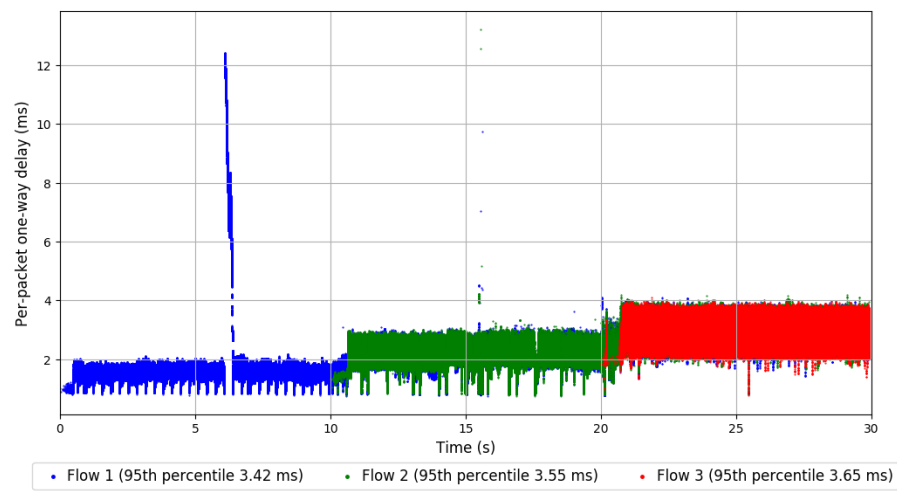
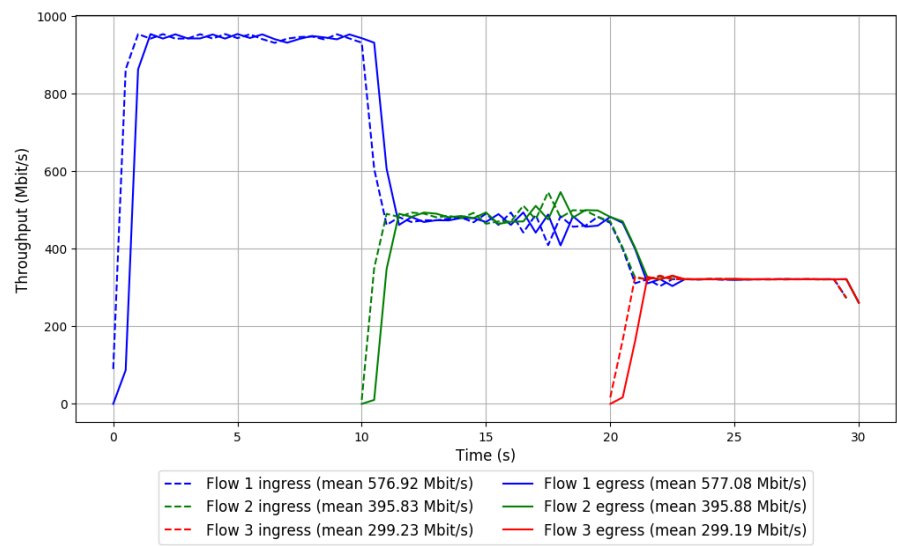
-- Flow 3:

Average throughput: 299.19 Mbit/s

95th percentile per-packet one-way delay: 3.655 ms

Loss rate: 0.23%

Run 3: Report of FillP — Data Link

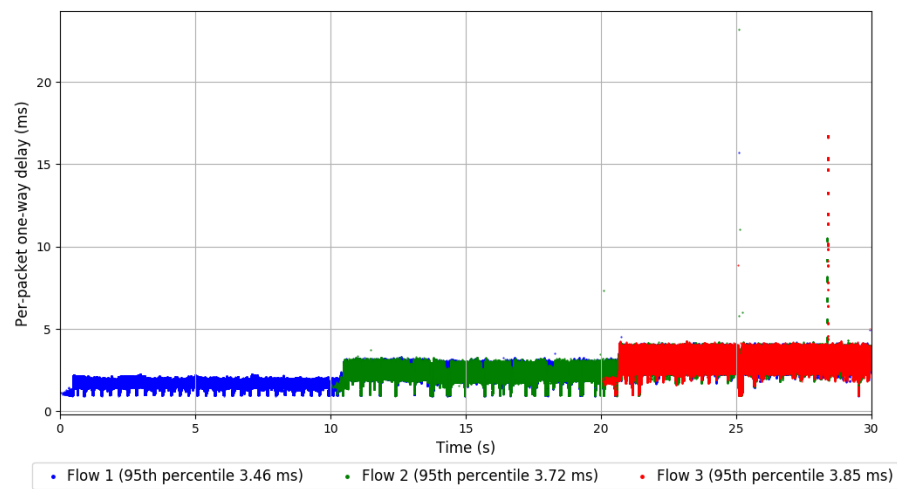
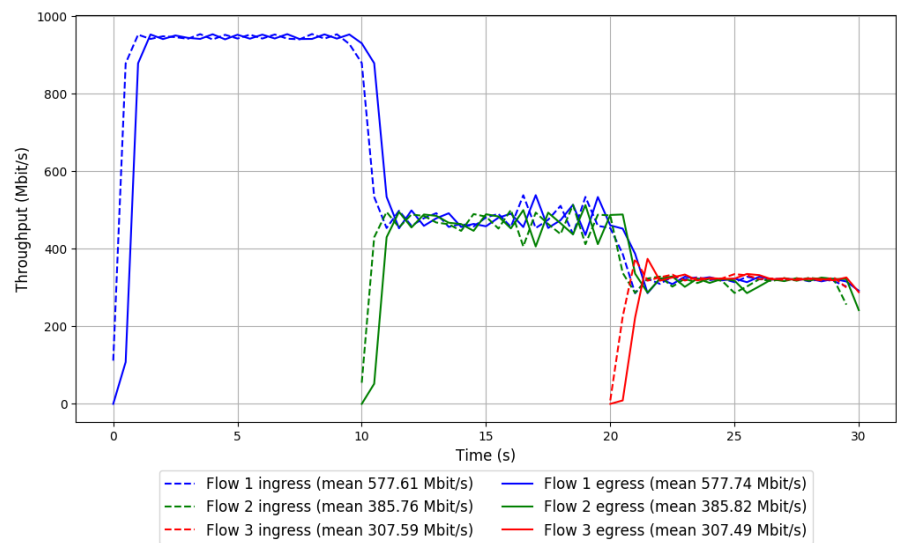


Run 4: Statistics of FillP

Start at: 2018-06-19 10:19:43
End at: 2018-06-19 10:20:13
Local clock offset: 3.675 ms
Remote clock offset: -1.364 ms

Below is generated by plot.py at 2018-06-19 14:20:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 935.78 Mbit/s
95th percentile per-packet one-way delay: 3.682 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 577.74 Mbit/s
95th percentile per-packet one-way delay: 3.463 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 385.82 Mbit/s
95th percentile per-packet one-way delay: 3.716 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 307.49 Mbit/s
95th percentile per-packet one-way delay: 3.854 ms
Loss rate: 0.23%

Run 4: Report of FillP — Data Link

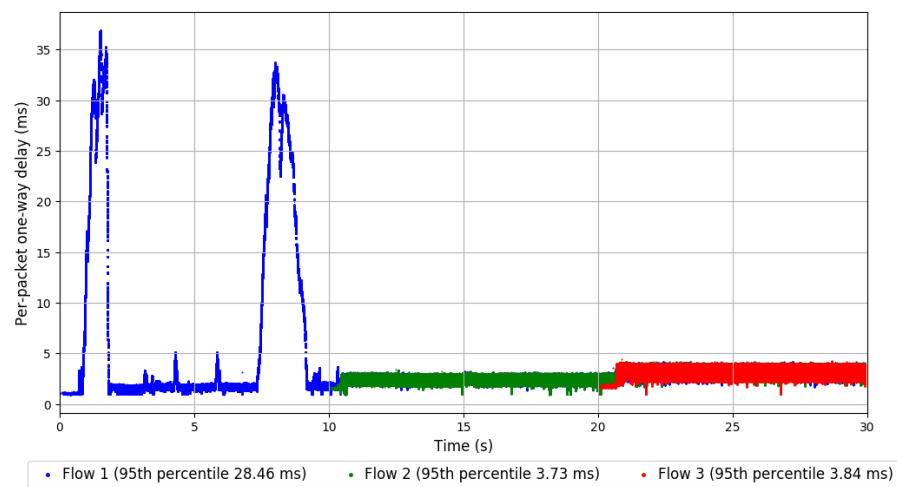
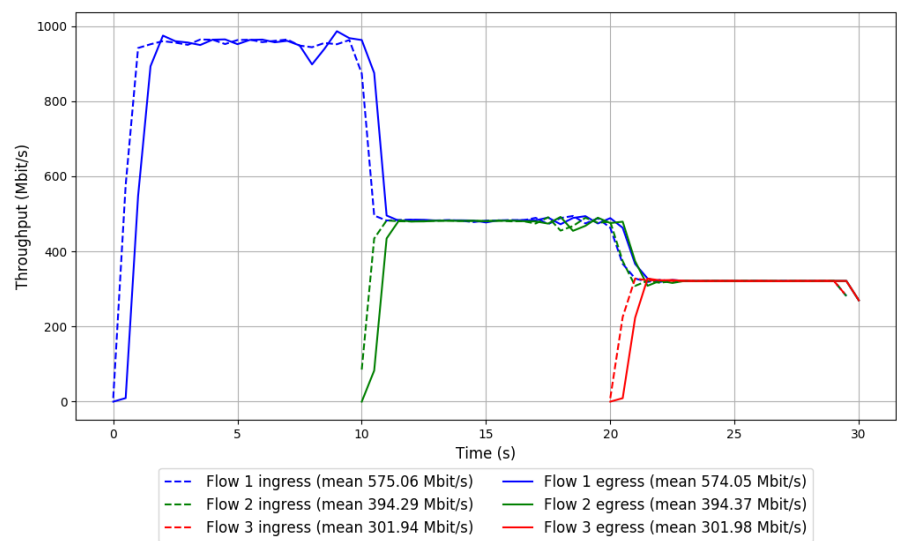


Run 5: Statistics of FillP

Start at: 2018-06-19 10:44:44
End at: 2018-06-19 10:45:14
Local clock offset: 3.605 ms
Remote clock offset: -4.568 ms

Below is generated by plot.py at 2018-06-19 14:20:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 936.44 Mbit/s
95th percentile per-packet one-way delay: 23.430 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 574.05 Mbit/s
95th percentile per-packet one-way delay: 28.463 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 394.37 Mbit/s
95th percentile per-packet one-way delay: 3.725 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 301.98 Mbit/s
95th percentile per-packet one-way delay: 3.836 ms
Loss rate: 0.23%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-19 11:09:59

End at: 2018-06-19 11:10:29

Local clock offset: 3.649 ms

Remote clock offset: 2.089 ms

Below is generated by plot.py at 2018-06-19 14:20:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 912.87 Mbit/s

95th percentile per-packet one-way delay: 3.995 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 553.90 Mbit/s

95th percentile per-packet one-way delay: 3.793 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 388.99 Mbit/s

95th percentile per-packet one-way delay: 5.229 ms

Loss rate: 0.08%

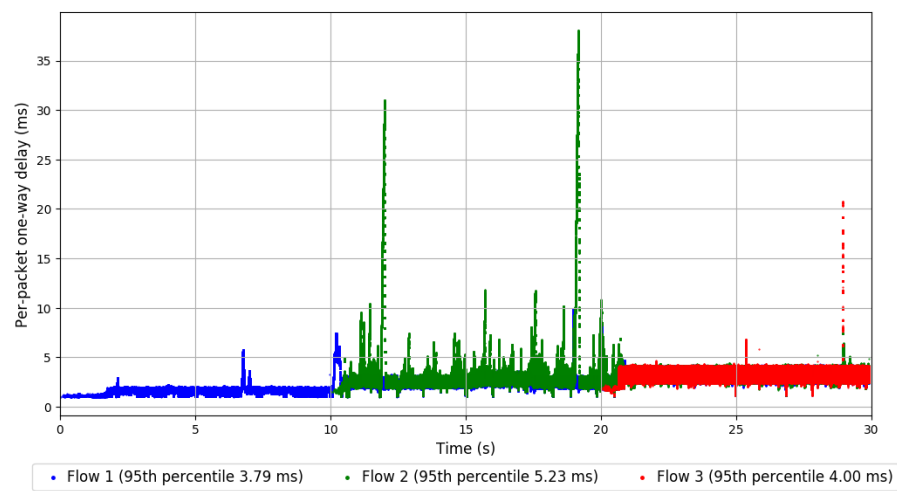
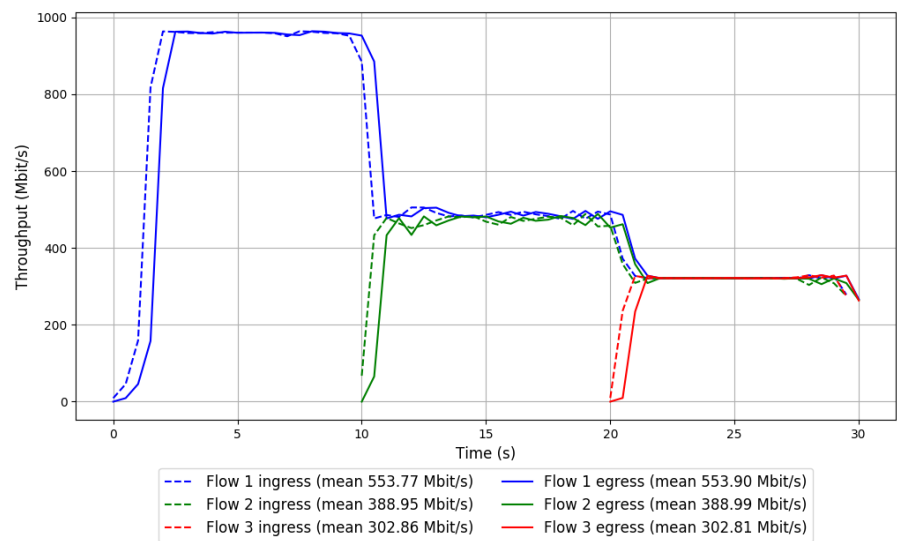
-- Flow 3:

Average throughput: 302.81 Mbit/s

95th percentile per-packet one-way delay: 4.003 ms

Loss rate: 0.23%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-19 11:35:15

End at: 2018-06-19 11:35:45

Local clock offset: 3.724 ms

Remote clock offset: 2.046 ms

Below is generated by plot.py at 2018-06-19 14:20:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 913.90 Mbit/s

95th percentile per-packet one-way delay: 3.725 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 555.51 Mbit/s

95th percentile per-packet one-way delay: 3.716 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 389.31 Mbit/s

95th percentile per-packet one-way delay: 3.673 ms

Loss rate: 0.08%

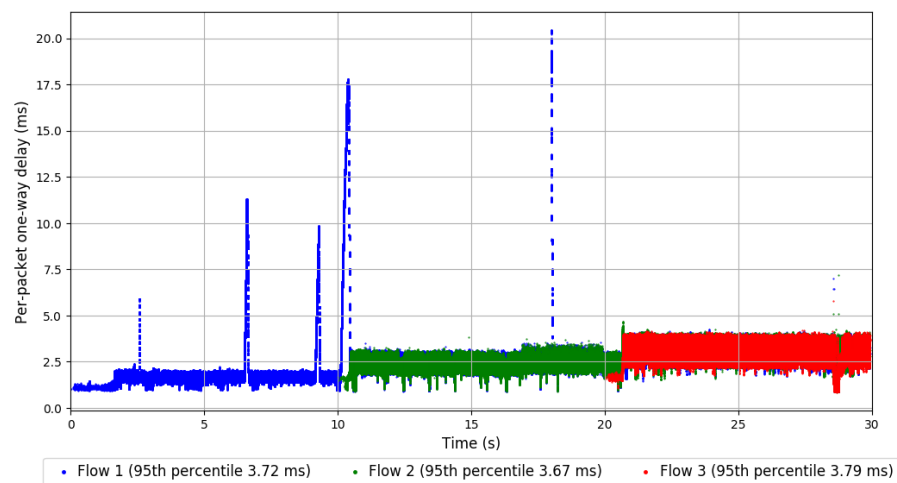
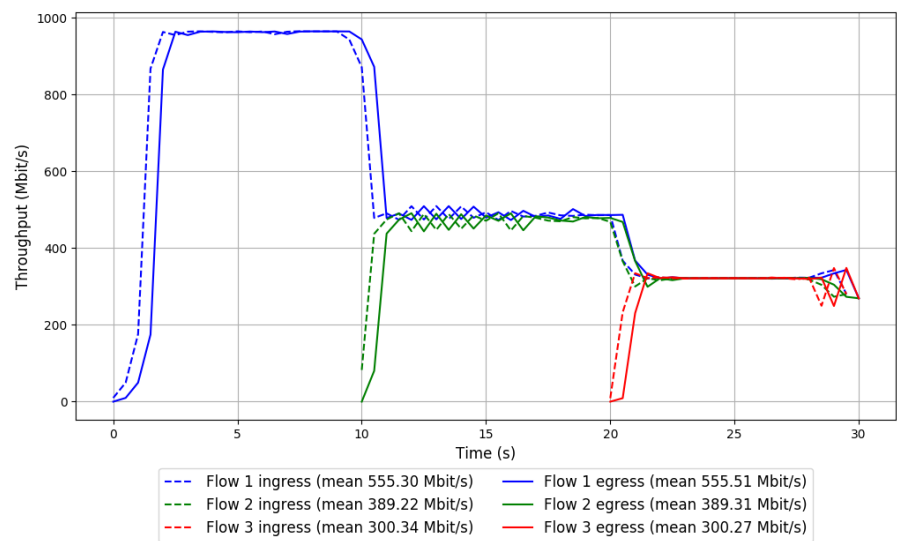
-- Flow 3:

Average throughput: 300.27 Mbit/s

95th percentile per-packet one-way delay: 3.790 ms

Loss rate: 0.22%

Run 7: Report of FillP — Data Link

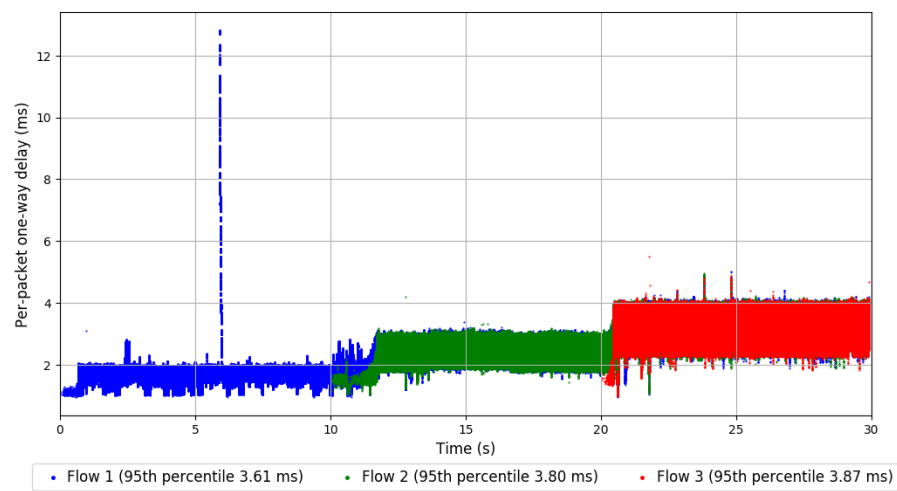
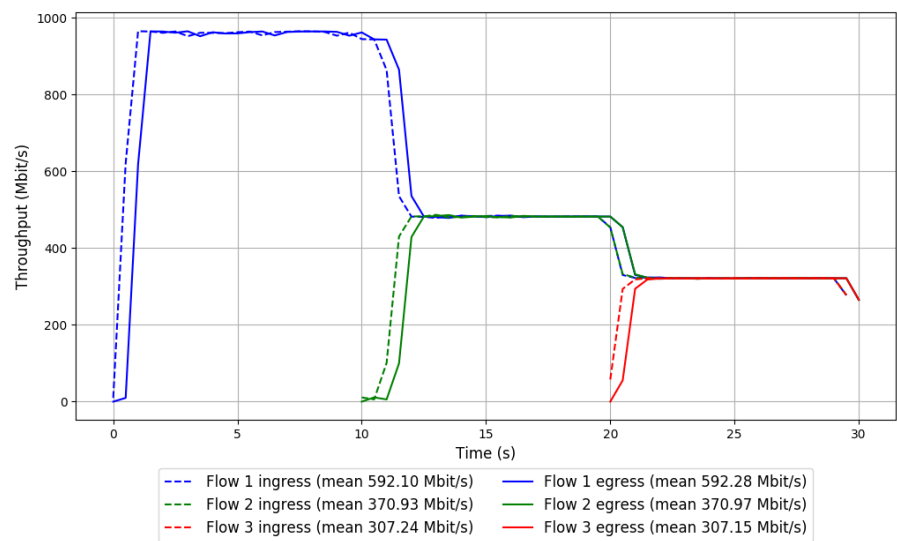


Run 8: Statistics of FillP

Start at: 2018-06-19 12:00:17
End at: 2018-06-19 12:00:47
Local clock offset: 3.604 ms
Remote clock offset: -0.451 ms

Below is generated by plot.py at 2018-06-19 14:20:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 940.65 Mbit/s
95th percentile per-packet one-way delay: 3.754 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 592.28 Mbit/s
95th percentile per-packet one-way delay: 3.612 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 370.97 Mbit/s
95th percentile per-packet one-way delay: 3.798 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 307.15 Mbit/s
95th percentile per-packet one-way delay: 3.867 ms
Loss rate: 0.23%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-19 12:25:37

End at: 2018-06-19 12:26:07

Local clock offset: 3.621 ms

Remote clock offset: 3.719 ms

Below is generated by plot.py at 2018-06-19 14:26:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 940.53 Mbit/s

95th percentile per-packet one-way delay: 3.822 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 580.05 Mbit/s

95th percentile per-packet one-way delay: 3.643 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 392.12 Mbit/s

95th percentile per-packet one-way delay: 3.864 ms

Loss rate: 0.09%

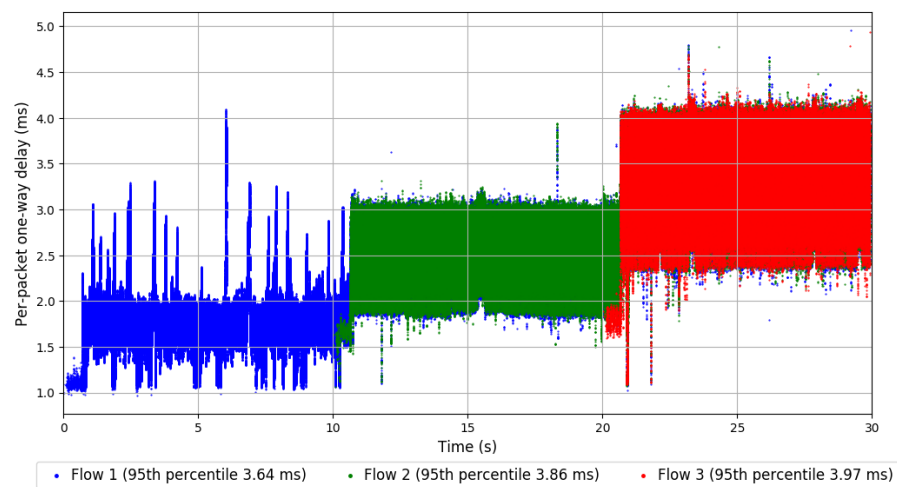
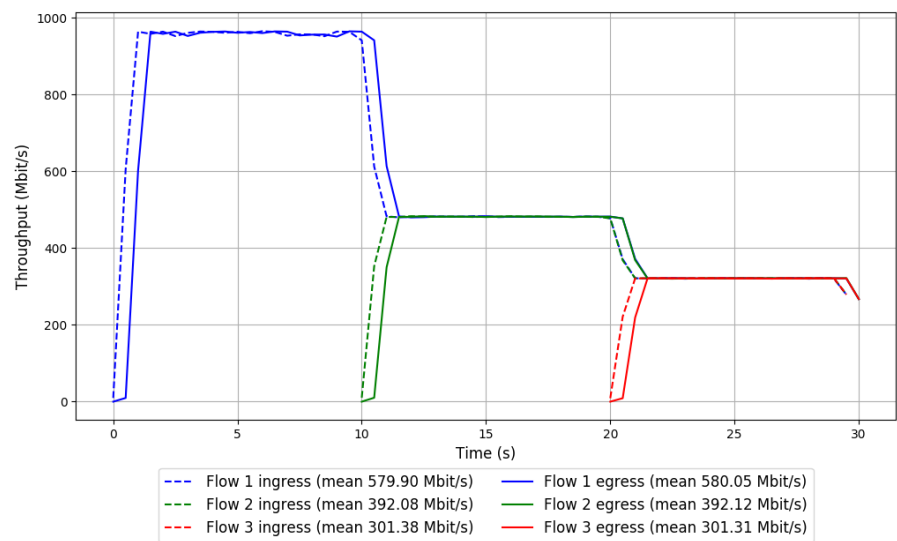
-- Flow 3:

Average throughput: 301.31 Mbit/s

95th percentile per-packet one-way delay: 3.967 ms

Loss rate: 0.23%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-19 12:50:59

End at: 2018-06-19 12:51:29

Local clock offset: 3.905 ms

Remote clock offset: 0.271 ms

Below is generated by plot.py at 2018-06-19 14:26:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 868.51 Mbit/s

95th percentile per-packet one-way delay: 5.539 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 507.45 Mbit/s

95th percentile per-packet one-way delay: 8.992 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 390.28 Mbit/s

95th percentile per-packet one-way delay: 3.669 ms

Loss rate: 0.09%

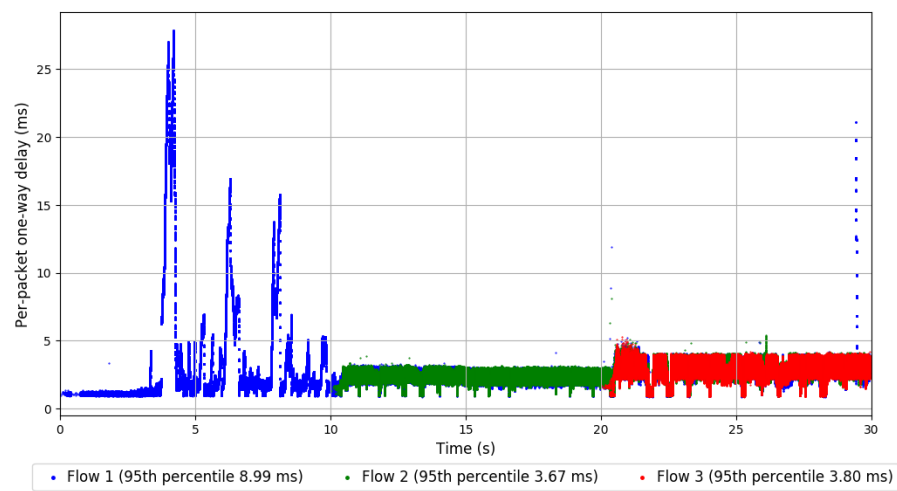
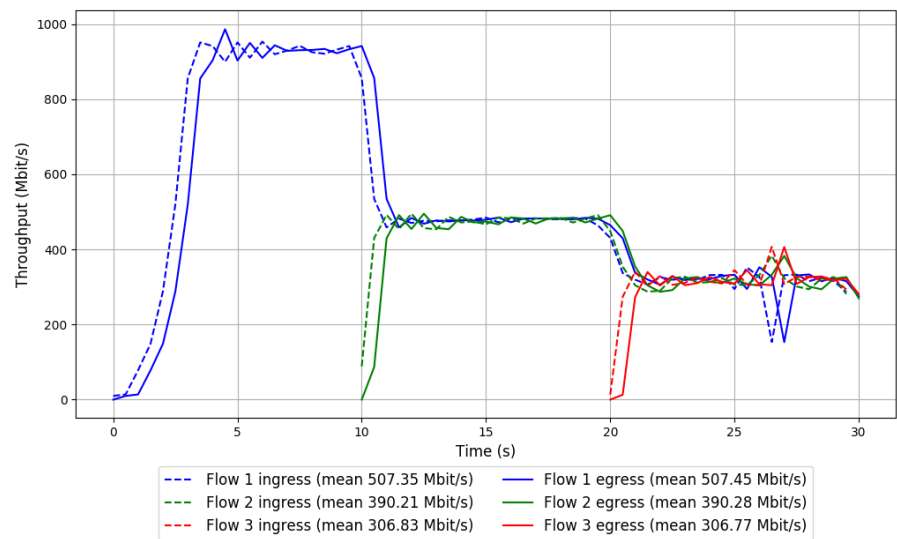
-- Flow 3:

Average throughput: 306.77 Mbit/s

95th percentile per-packet one-way delay: 3.797 ms

Loss rate: 0.24%

Run 10: Report of FillP — Data Link

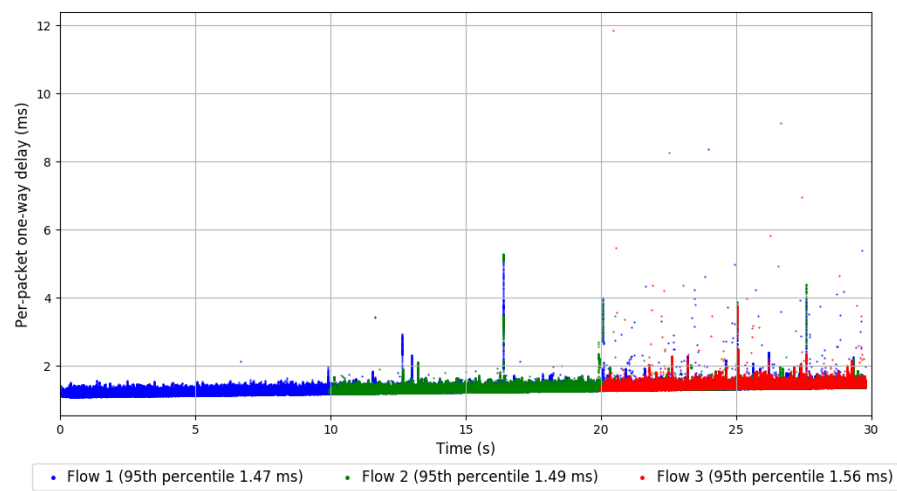
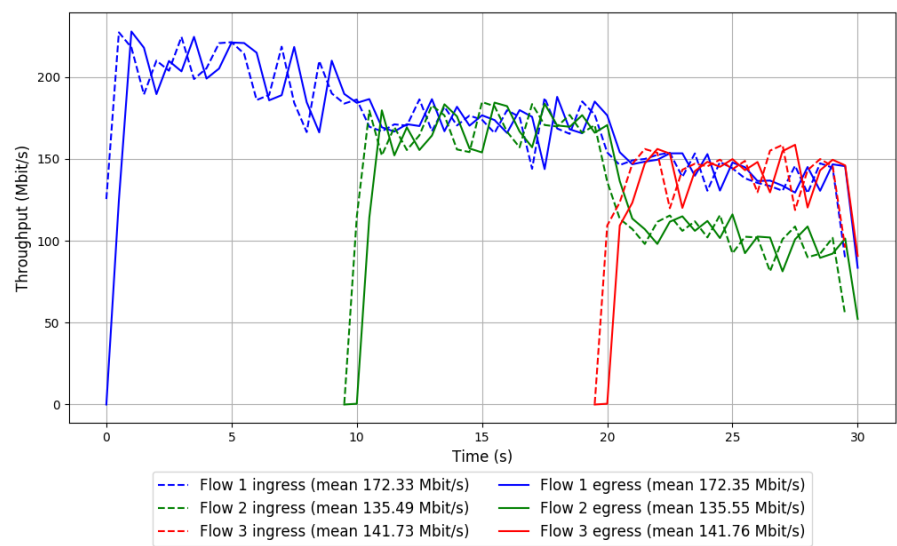


Run 1: Statistics of Indigo

Start at: 2018-06-19 09:17:31
End at: 2018-06-19 09:18:01
Local clock offset: 3.546 ms
Remote clock offset: -1.116 ms

Below is generated by plot.py at 2018-06-19 14:26:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 309.26 Mbit/s
95th percentile per-packet one-way delay: 1.502 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 172.35 Mbit/s
95th percentile per-packet one-way delay: 1.473 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 135.55 Mbit/s
95th percentile per-packet one-way delay: 1.494 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 141.76 Mbit/s
95th percentile per-packet one-way delay: 1.565 ms
Loss rate: 0.18%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-19 09:42:43

End at: 2018-06-19 09:43:13

Local clock offset: 3.652 ms

Remote clock offset: 4.927 ms

Below is generated by plot.py at 2018-06-19 14:26:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.61 Mbit/s

95th percentile per-packet one-way delay: 1.251 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 168.89 Mbit/s

95th percentile per-packet one-way delay: 1.260 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 158.54 Mbit/s

95th percentile per-packet one-way delay: 1.232 ms

Loss rate: 0.06%

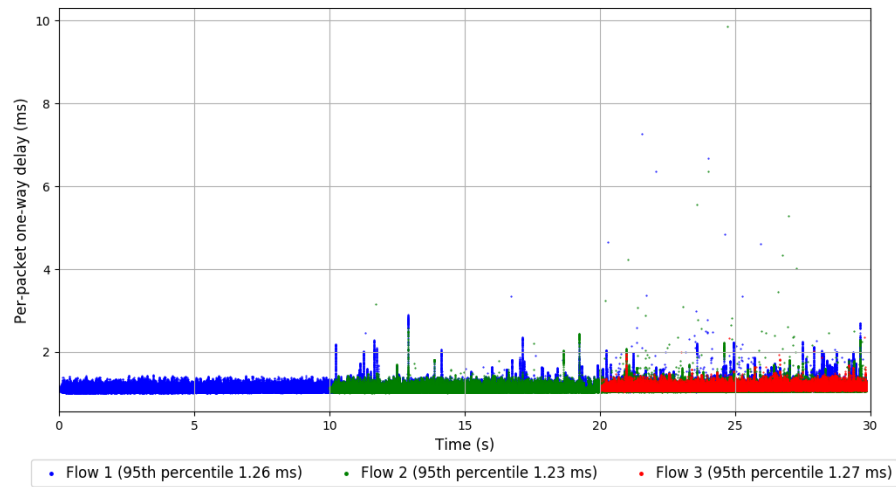
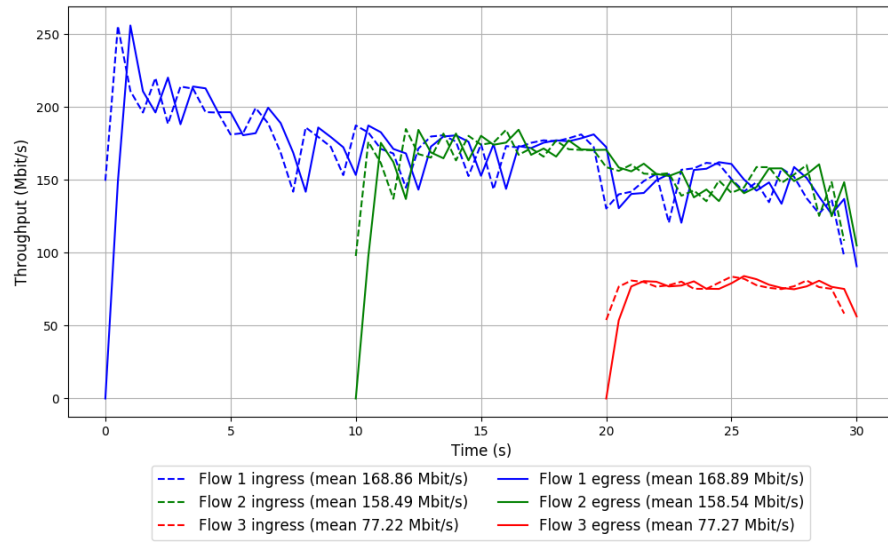
-- Flow 3:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 1.266 ms

Loss rate: 0.15%

Run 2: Report of Indigo — Data Link

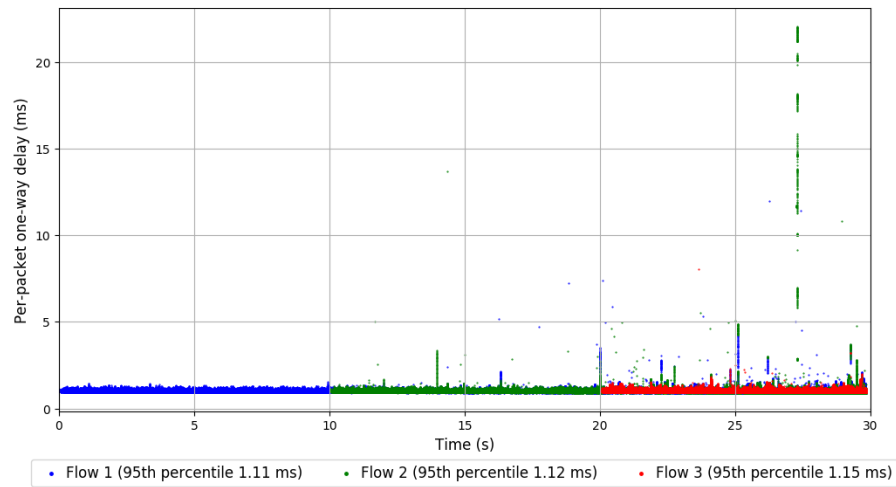
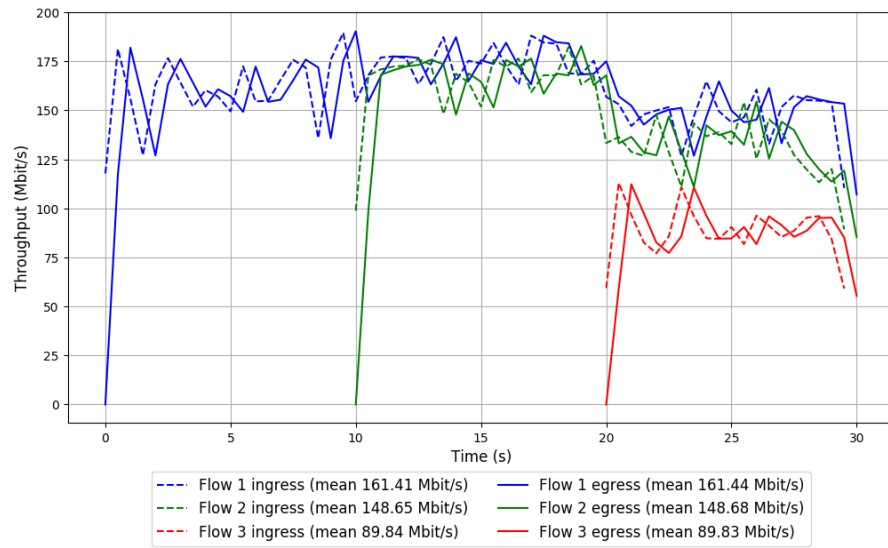


Run 3: Statistics of Indigo

Start at: 2018-06-19 10:07:45
End at: 2018-06-19 10:08:15
Local clock offset: 3.712 ms
Remote clock offset: -0.477 ms

Below is generated by plot.py at 2018-06-19 14:26:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 289.56 Mbit/s
95th percentile per-packet one-way delay: 1.119 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 161.44 Mbit/s
95th percentile per-packet one-way delay: 1.113 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 148.68 Mbit/s
95th percentile per-packet one-way delay: 1.117 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 89.83 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.22%

Run 3: Report of Indigo — Data Link

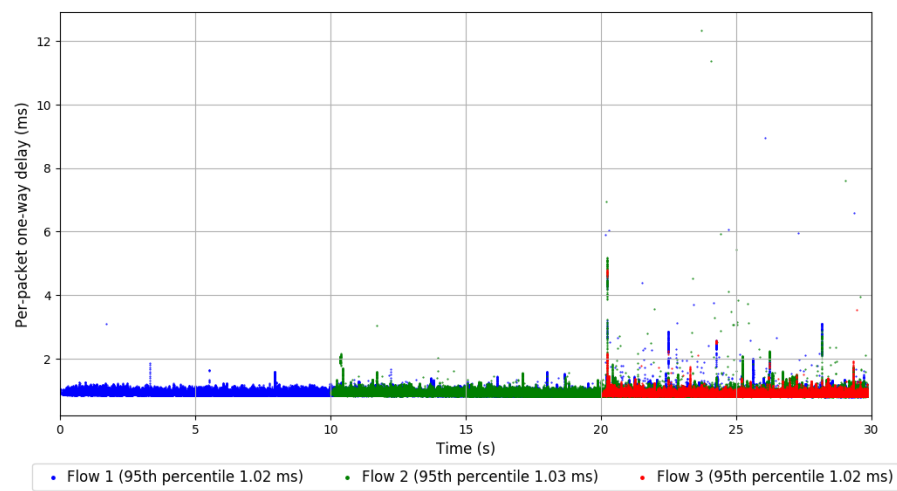
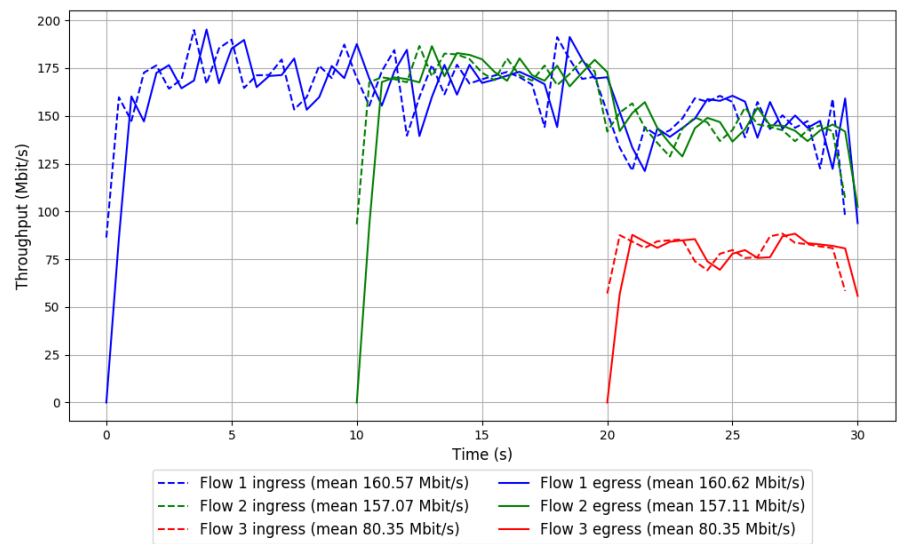


Run 4: Statistics of Indigo

Start at: 2018-06-19 10:32:45
End at: 2018-06-19 10:33:15
Local clock offset: 3.592 ms
Remote clock offset: -3.478 ms

Below is generated by plot.py at 2018-06-19 14:26:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 291.41 Mbit/s
95th percentile per-packet one-way delay: 1.026 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 160.62 Mbit/s
95th percentile per-packet one-way delay: 1.023 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 157.11 Mbit/s
95th percentile per-packet one-way delay: 1.032 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 80.35 Mbit/s
95th percentile per-packet one-way delay: 1.017 ms
Loss rate: 0.17%

Run 4: Report of Indigo — Data Link

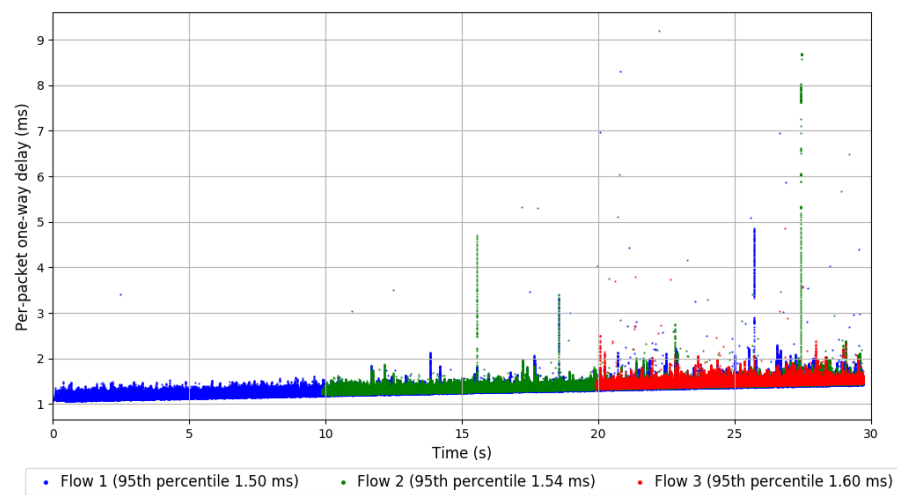
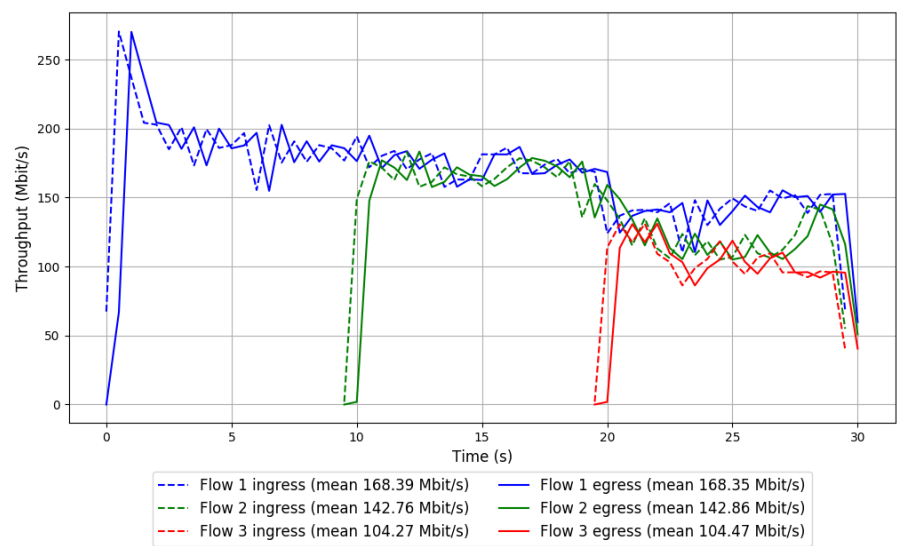


Run 5: Statistics of Indigo

Start at: 2018-06-19 10:57:59
End at: 2018-06-19 10:58:29
Local clock offset: 3.588 ms
Remote clock offset: -3.002 ms

Below is generated by plot.py at 2018-06-19 14:26:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 298.18 Mbit/s
95th percentile per-packet one-way delay: 1.537 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 168.35 Mbit/s
95th percentile per-packet one-way delay: 1.505 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 142.86 Mbit/s
95th percentile per-packet one-way delay: 1.537 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 104.47 Mbit/s
95th percentile per-packet one-way delay: 1.599 ms
Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-19 11:23:11

End at: 2018-06-19 11:23:41

Local clock offset: 3.711 ms

Remote clock offset: 3.847 ms

Below is generated by plot.py at 2018-06-19 14:26:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.19 Mbit/s

95th percentile per-packet one-way delay: 1.257 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 159.90 Mbit/s

95th percentile per-packet one-way delay: 1.245 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 152.18 Mbit/s

95th percentile per-packet one-way delay: 1.264 ms

Loss rate: 0.06%

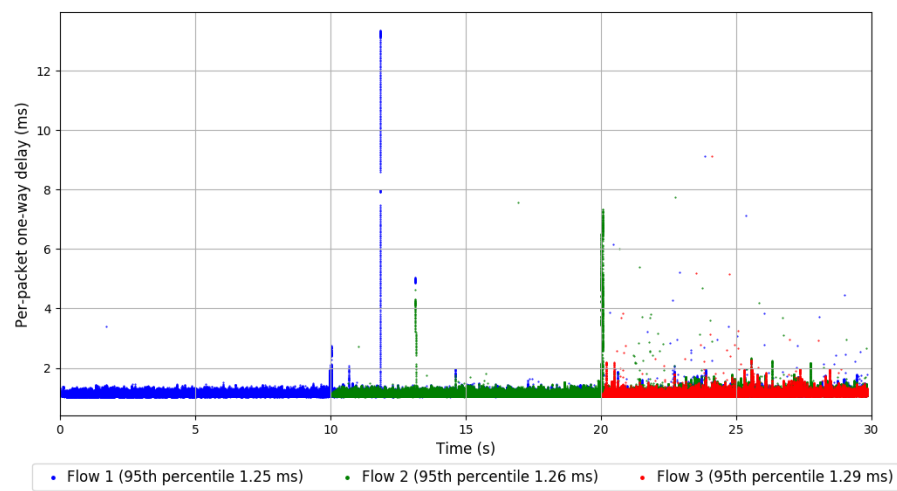
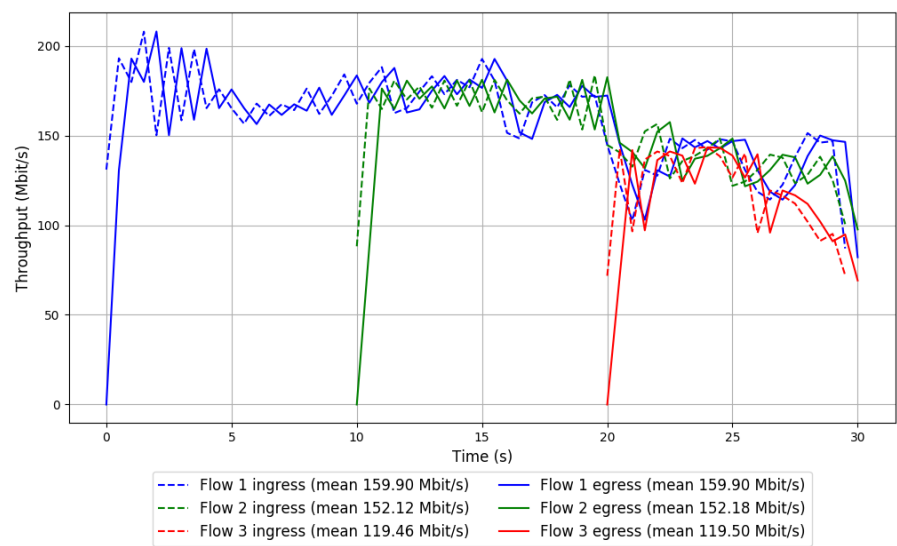
-- Flow 3:

Average throughput: 119.50 Mbit/s

95th percentile per-packet one-way delay: 1.290 ms

Loss rate: 0.15%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-19 11:48:18

End at: 2018-06-19 11:48:48

Local clock offset: 3.639 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-06-19 14:27:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.25 Mbit/s

95th percentile per-packet one-way delay: 1.209 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 179.41 Mbit/s

95th percentile per-packet one-way delay: 1.199 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 145.00 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.08%

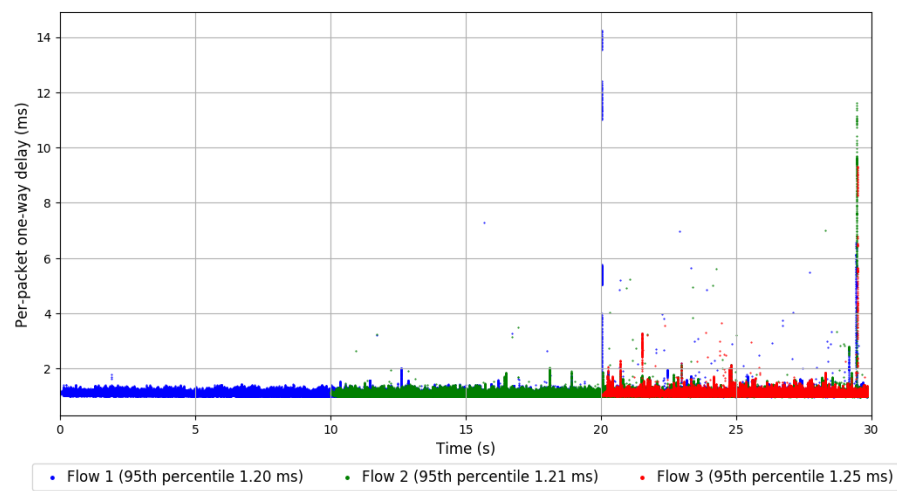
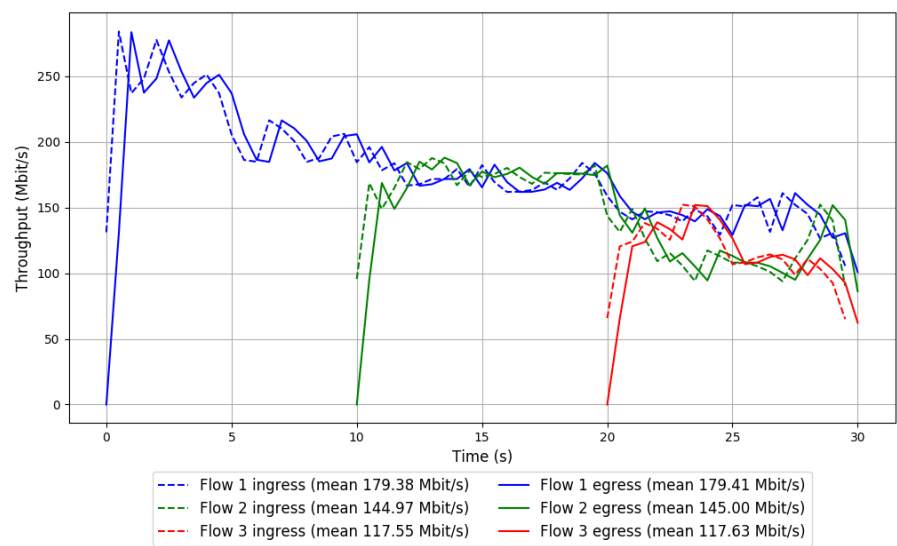
-- Flow 3:

Average throughput: 117.63 Mbit/s

95th percentile per-packet one-way delay: 1.250 ms

Loss rate: 0.12%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-19 12:13:31

End at: 2018-06-19 12:14:01

Local clock offset: 3.624 ms

Remote clock offset: 2.262 ms

Below is generated by plot.py at 2018-06-19 14:27:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.42 Mbit/s

95th percentile per-packet one-way delay: 1.325 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 161.01 Mbit/s

95th percentile per-packet one-way delay: 1.326 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 152.10 Mbit/s

95th percentile per-packet one-way delay: 1.309 ms

Loss rate: 0.08%

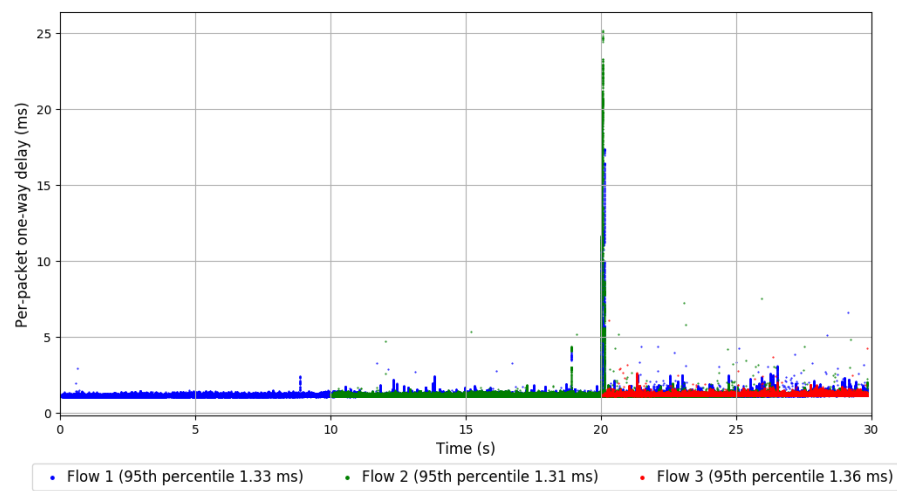
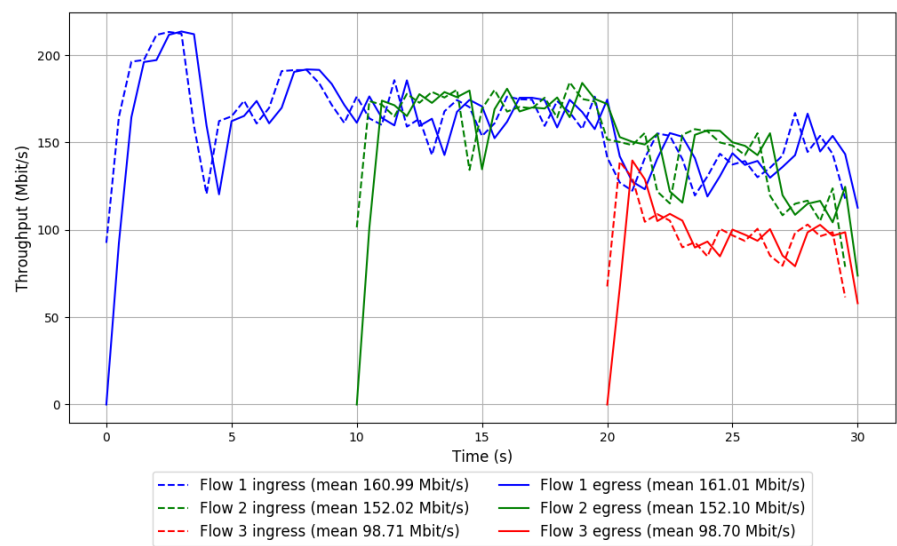
-- Flow 3:

Average throughput: 98.70 Mbit/s

95th percentile per-packet one-way delay: 1.357 ms

Loss rate: 0.18%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-19 12:38:57

End at: 2018-06-19 12:39:27

Local clock offset: 3.744 ms

Remote clock offset: 3.945 ms

Below is generated by plot.py at 2018-06-19 14:27:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.16 Mbit/s

95th percentile per-packet one-way delay: 0.889 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 160.46 Mbit/s

95th percentile per-packet one-way delay: 0.911 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 142.11 Mbit/s

95th percentile per-packet one-way delay: 0.811 ms

Loss rate: 0.08%

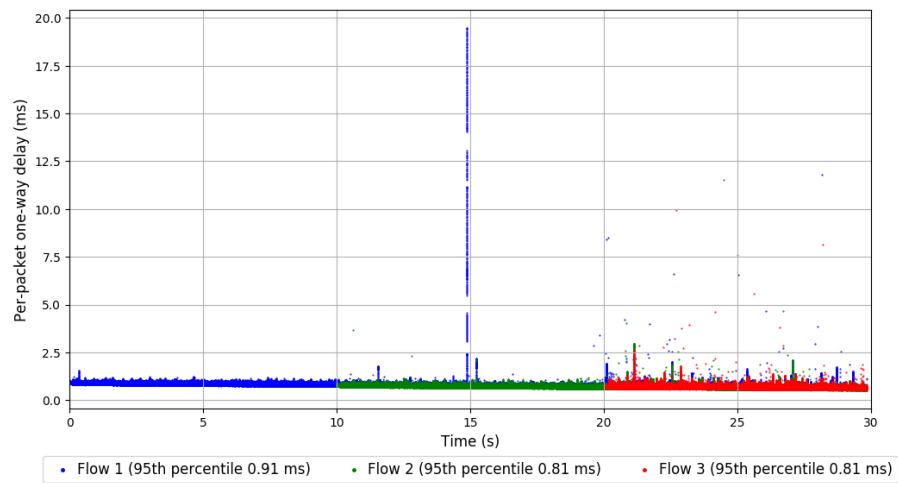
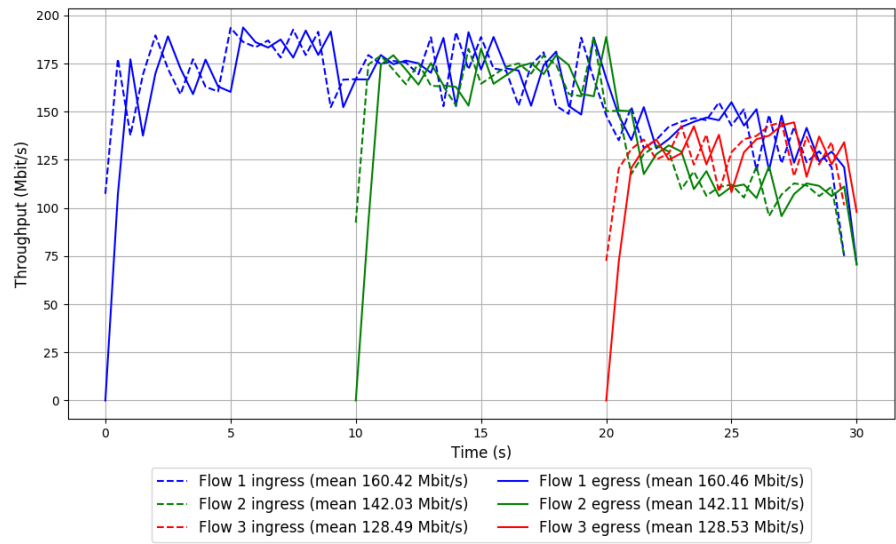
-- Flow 3:

Average throughput: 128.53 Mbit/s

95th percentile per-packet one-way delay: 0.805 ms

Loss rate: 0.15%

Run 9: Report of Indigo — Data Link

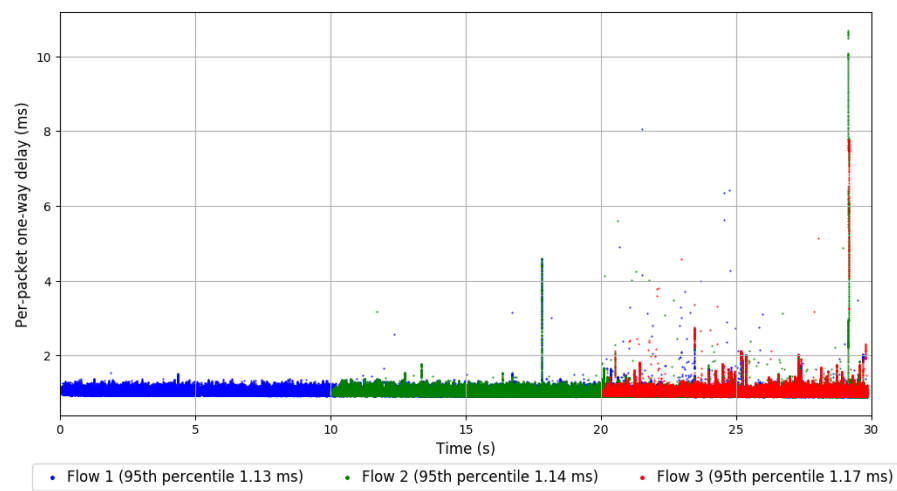
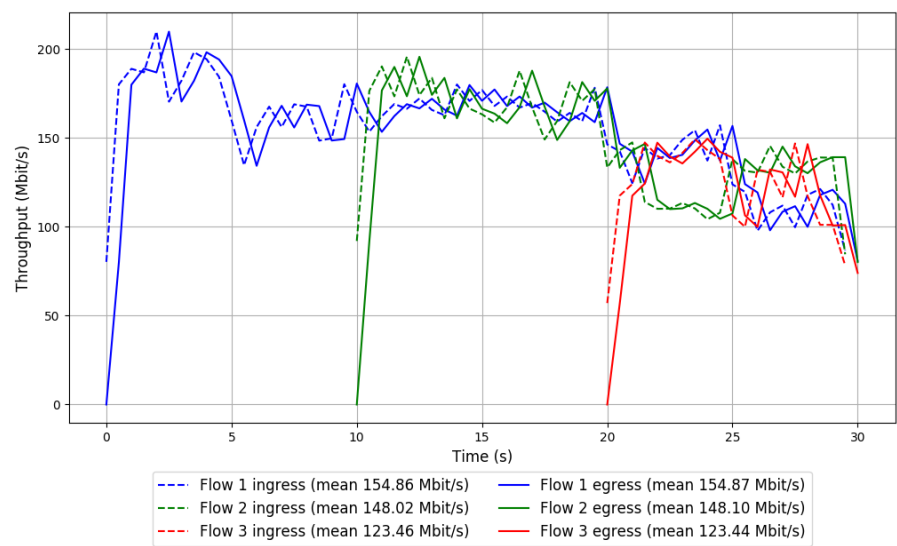


Run 10: Statistics of Indigo

Start at: 2018-06-19 13:04:07
End at: 2018-06-19 13:04:37
Local clock offset: 3.958 ms
Remote clock offset: -0.888 ms

Below is generated by plot.py at 2018-06-19 14:27:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 293.82 Mbit/s
95th percentile per-packet one-way delay: 1.139 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 154.87 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 148.10 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 123.44 Mbit/s
95th percentile per-packet one-way delay: 1.173 ms
Loss rate: 0.19%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-06-19 09:23:34

End at: 2018-06-19 09:24:04

Local clock offset: 3.546 ms

Remote clock offset: 1.646 ms

Below is generated by plot.py at 2018-06-19 14:29:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 496.64 Mbit/s

95th percentile per-packet one-way delay: 2.101 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 300.62 Mbit/s

95th percentile per-packet one-way delay: 1.964 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 213.89 Mbit/s

95th percentile per-packet one-way delay: 1.972 ms

Loss rate: 0.02%

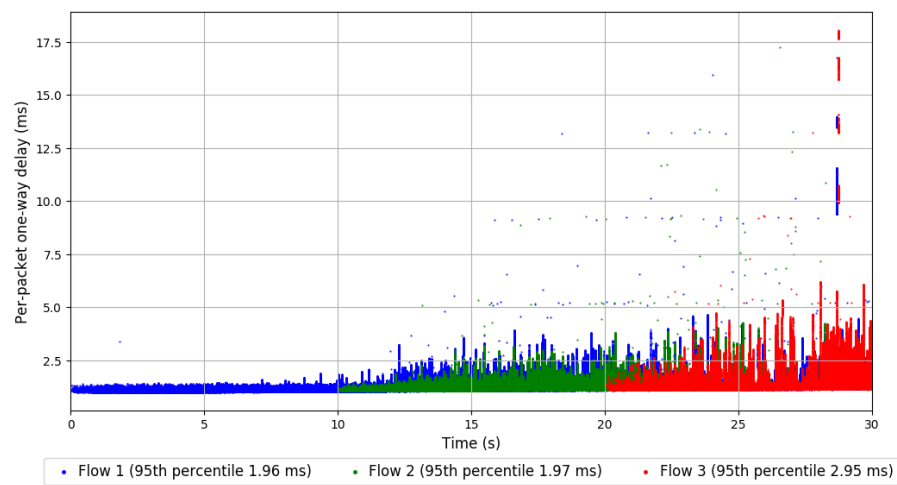
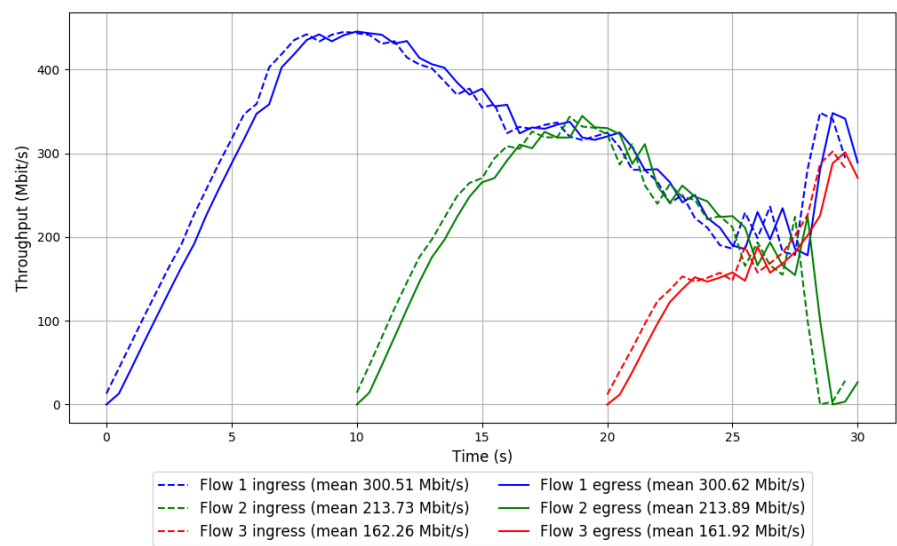
-- Flow 3:

Average throughput: 161.92 Mbit/s

95th percentile per-packet one-way delay: 2.951 ms

Loss rate: 0.42%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-19 09:48:43

End at: 2018-06-19 09:49:13

Local clock offset: 3.694 ms

Remote clock offset: 4.315 ms

Below is generated by plot.py at 2018-06-19 14:30:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 503.49 Mbit/s

95th percentile per-packet one-way delay: 1.478 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 294.98 Mbit/s

95th percentile per-packet one-way delay: 1.359 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 220.13 Mbit/s

95th percentile per-packet one-way delay: 1.593 ms

Loss rate: 0.10%

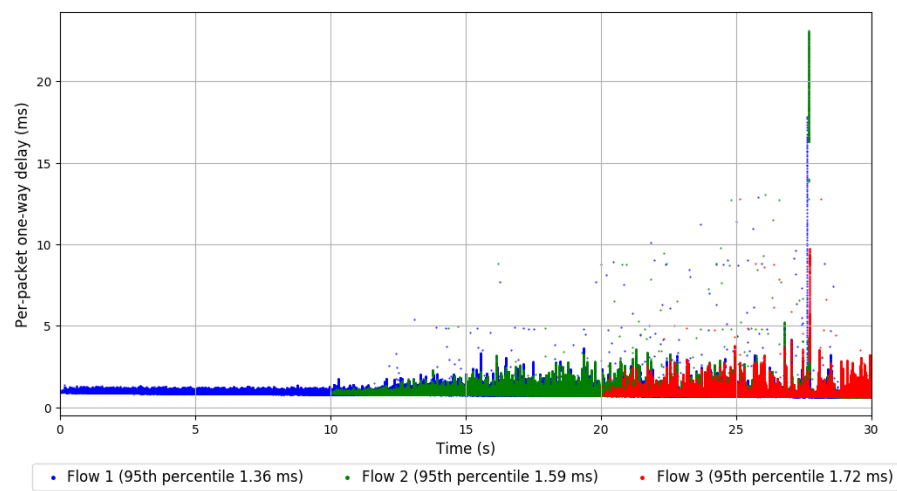
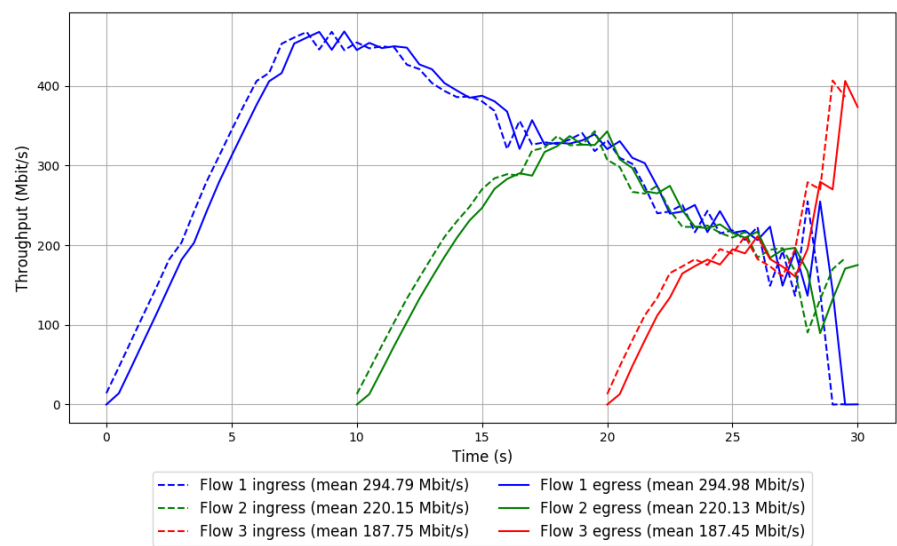
-- Flow 3:

Average throughput: 187.45 Mbit/s

95th percentile per-packet one-way delay: 1.716 ms

Loss rate: 0.36%

Run 2: Report of LEDBAT — Data Link

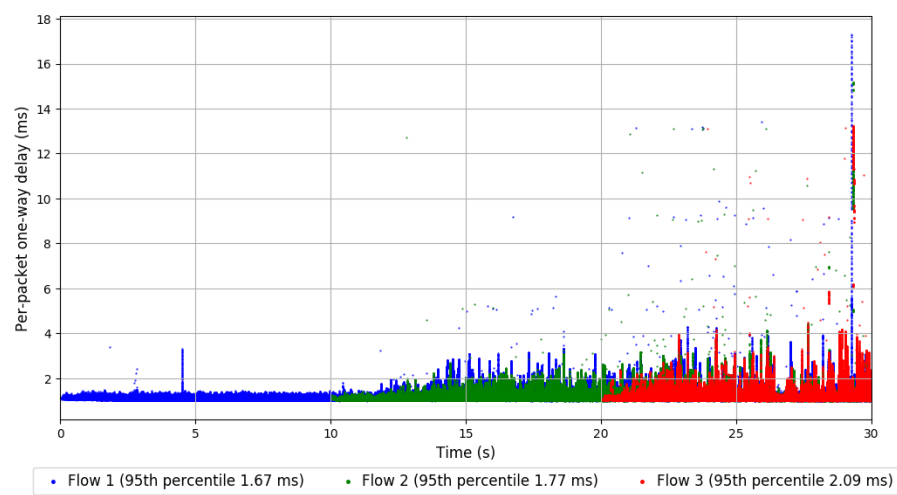
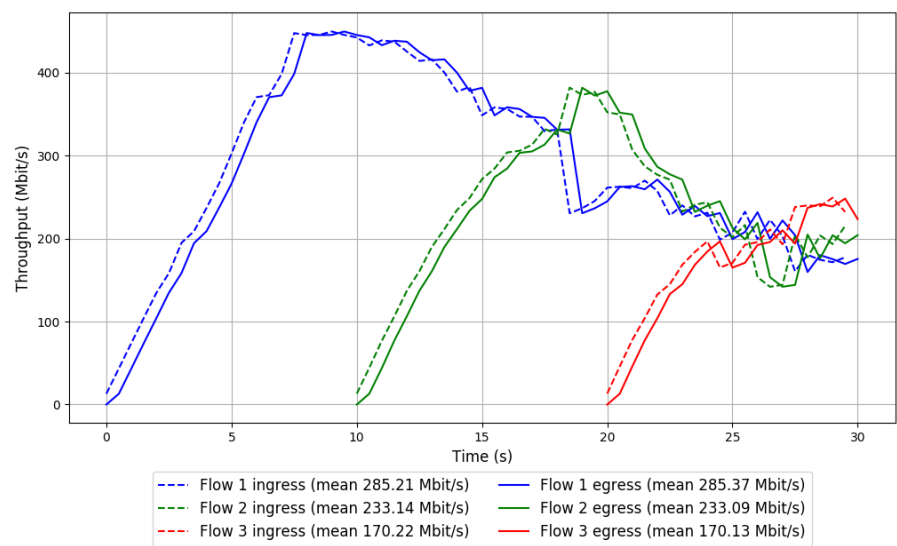


Run 3: Statistics of LEDBAT

Start at: 2018-06-19 10:13:47
End at: 2018-06-19 10:14:17
Local clock offset: 3.673 ms
Remote clock offset: -1.021 ms

Below is generated by plot.py at 2018-06-19 14:31:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 497.03 Mbit/s
95th percentile per-packet one-way delay: 1.754 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 285.37 Mbit/s
95th percentile per-packet one-way delay: 1.671 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 233.09 Mbit/s
95th percentile per-packet one-way delay: 1.770 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 170.13 Mbit/s
95th percentile per-packet one-way delay: 2.089 ms
Loss rate: 0.30%

Run 3: Report of LEDBAT — Data Link

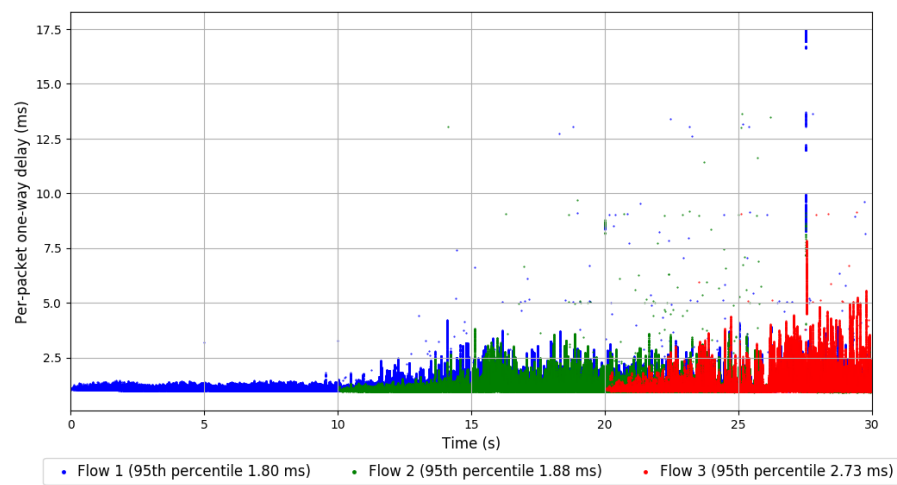
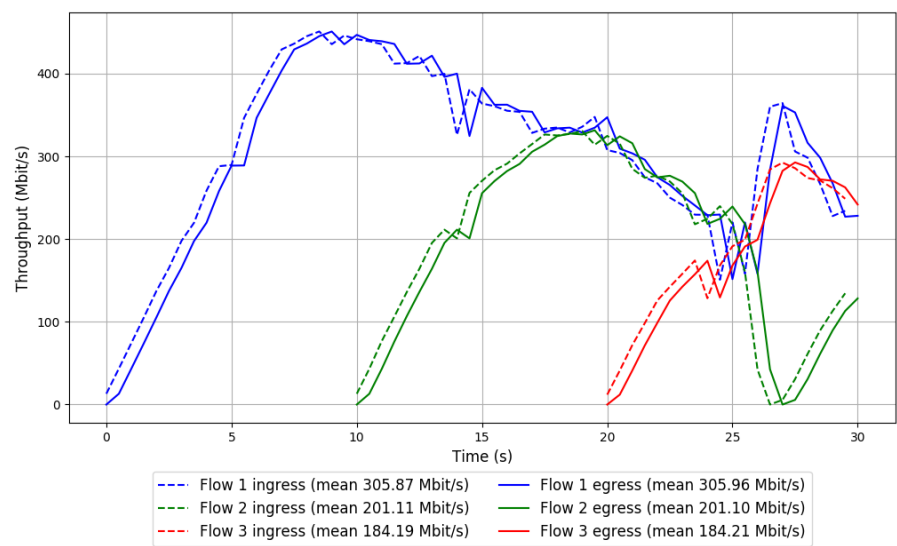


Run 4: Statistics of LEDBAT

Start at: 2018-06-19 10:38:48
End at: 2018-06-19 10:39:18
Local clock offset: 3.642 ms
Remote clock offset: -4.068 ms

Below is generated by plot.py at 2018-06-19 14:31:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 500.95 Mbit/s
95th percentile per-packet one-way delay: 1.942 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 305.96 Mbit/s
95th percentile per-packet one-way delay: 1.801 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 201.10 Mbit/s
95th percentile per-packet one-way delay: 1.881 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 184.21 Mbit/s
95th percentile per-packet one-way delay: 2.735 ms
Loss rate: 0.22%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-19 11:04:02

End at: 2018-06-19 11:04:32

Local clock offset: 3.521 ms

Remote clock offset: 0.358 ms

Below is generated by plot.py at 2018-06-19 14:32:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 493.84 Mbit/s

95th percentile per-packet one-way delay: 1.786 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 293.10 Mbit/s

95th percentile per-packet one-way delay: 1.650 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 224.55 Mbit/s

95th percentile per-packet one-way delay: 1.983 ms

Loss rate: 0.09%

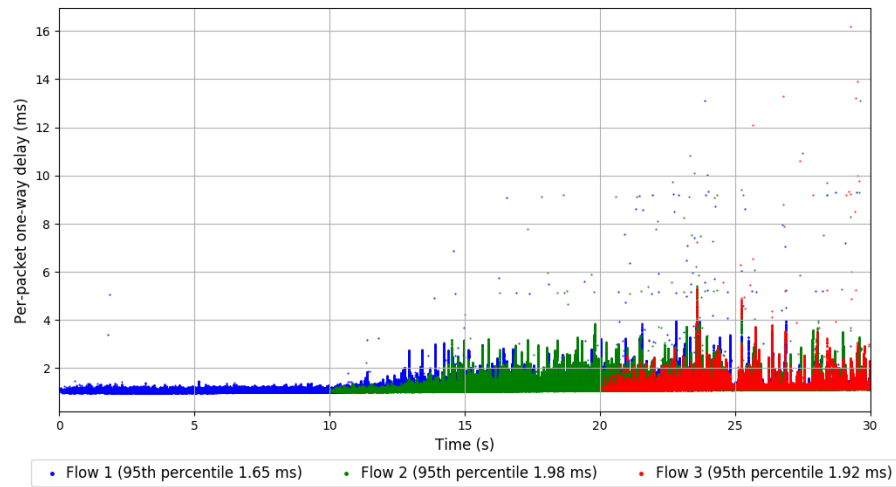
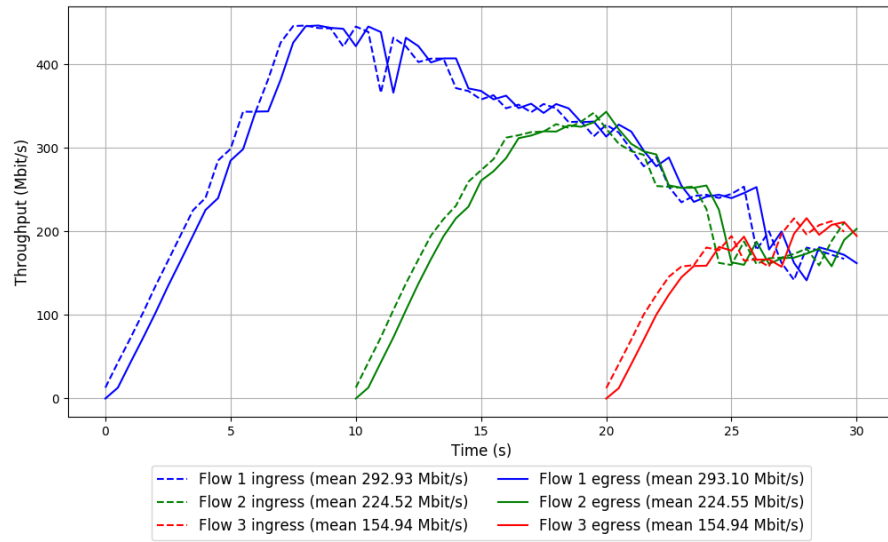
-- Flow 3:

Average throughput: 154.94 Mbit/s

95th percentile per-packet one-way delay: 1.921 ms

Loss rate: 0.20%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-19 11:29:18

End at: 2018-06-19 11:29:48

Local clock offset: 3.654 ms

Remote clock offset: 4.38 ms

Below is generated by plot.py at 2018-06-19 14:32:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 494.44 Mbit/s

95th percentile per-packet one-way delay: 1.364 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 294.54 Mbit/s

95th percentile per-packet one-way delay: 1.294 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 220.16 Mbit/s

95th percentile per-packet one-way delay: 1.500 ms

Loss rate: 0.07%

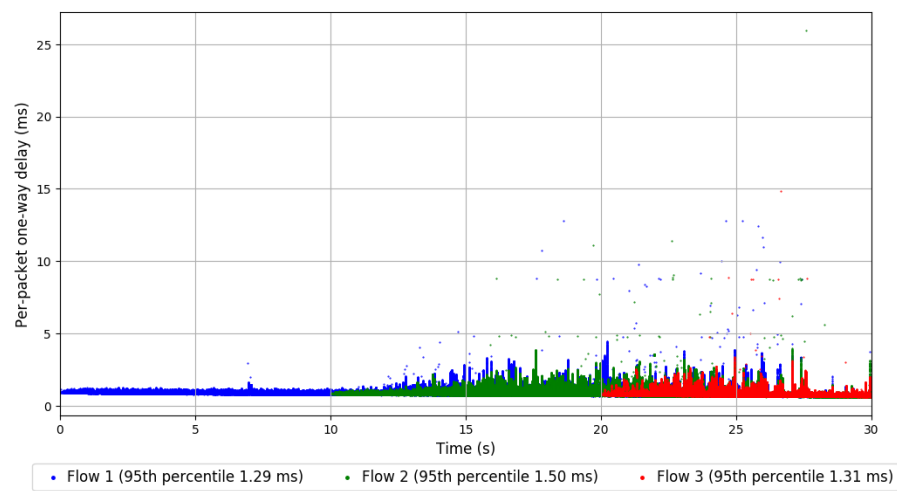
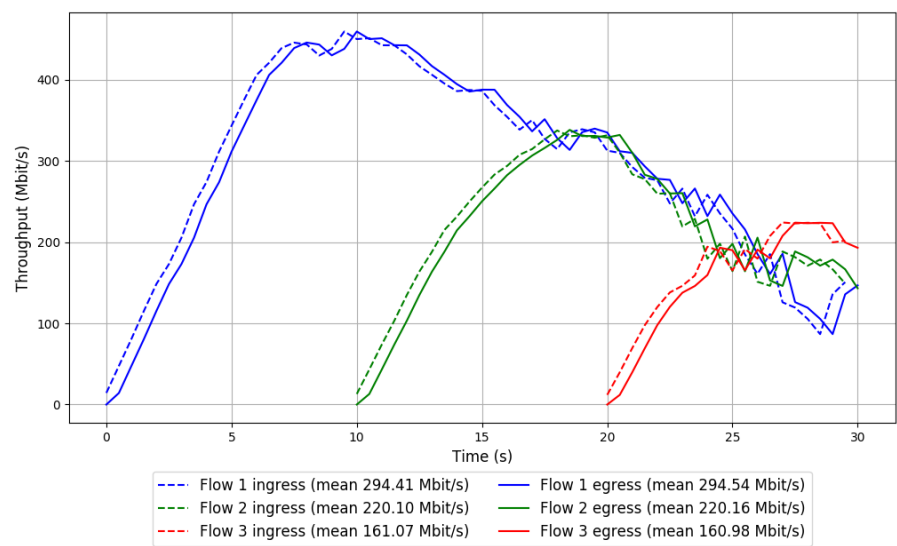
-- Flow 3:

Average throughput: 160.98 Mbit/s

95th percentile per-packet one-way delay: 1.307 ms

Loss rate: 0.28%

Run 6: Report of LEDBAT — Data Link

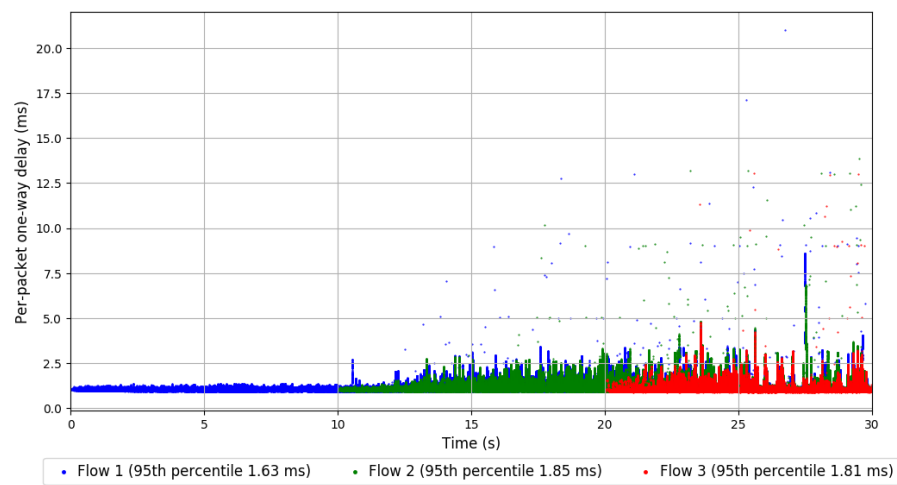
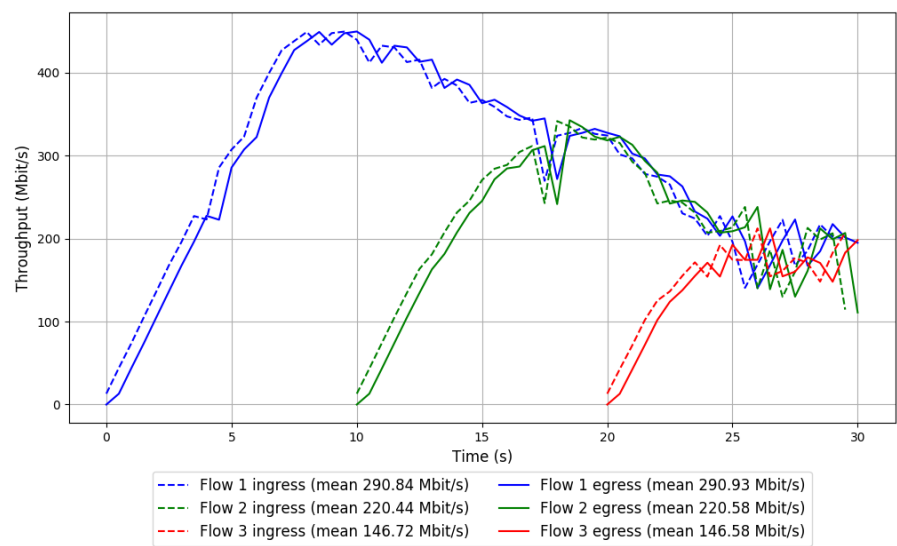


Run 7: Statistics of LEDBAT

Start at: 2018-06-19 11:54:21
End at: 2018-06-19 11:54:51
Local clock offset: 3.524 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-06-19 14:32:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 486.42 Mbit/s
95th percentile per-packet one-way delay: 1.715 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 290.93 Mbit/s
95th percentile per-packet one-way delay: 1.628 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 220.58 Mbit/s
95th percentile per-packet one-way delay: 1.850 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 146.58 Mbit/s
95th percentile per-packet one-way delay: 1.812 ms
Loss rate: 0.30%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-19 12:19:37

End at: 2018-06-19 12:20:07

Local clock offset: 3.543 ms

Remote clock offset: 3.221 ms

Below is generated by plot.py at 2018-06-19 14:32:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 495.43 Mbit/s

95th percentile per-packet one-way delay: 1.635 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 280.65 Mbit/s

95th percentile per-packet one-way delay: 1.560 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 221.43 Mbit/s

95th percentile per-packet one-way delay: 1.784 ms

Loss rate: 0.05%

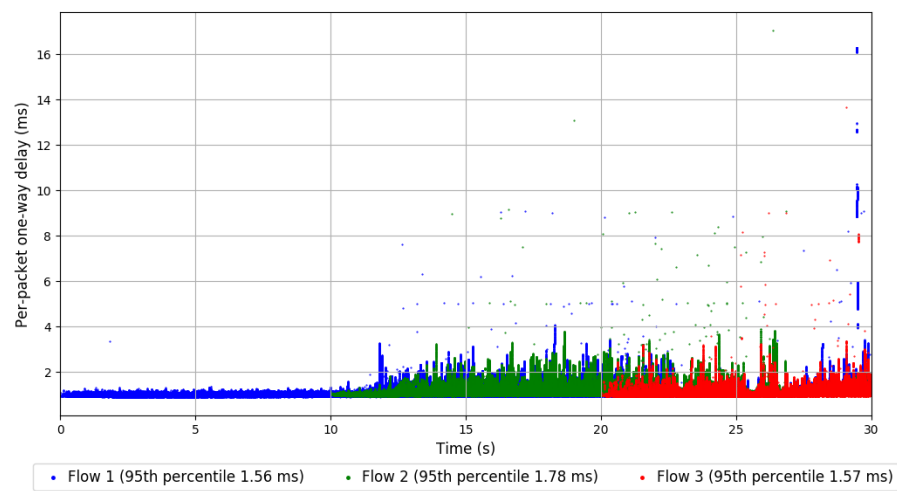
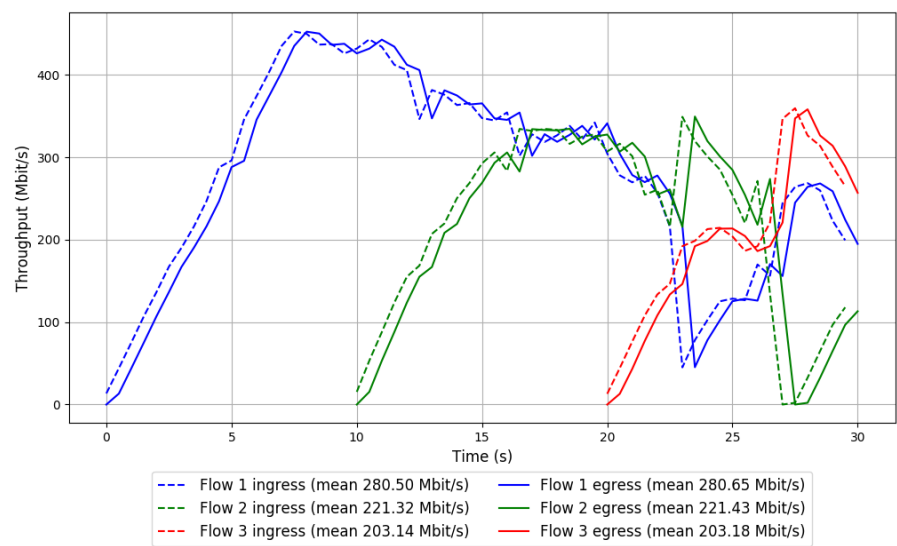
-- Flow 3:

Average throughput: 203.18 Mbit/s

95th percentile per-packet one-way delay: 1.575 ms

Loss rate: 0.22%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-19 12:45:01

End at: 2018-06-19 12:45:31

Local clock offset: 3.854 ms

Remote clock offset: 1.462 ms

Below is generated by plot.py at 2018-06-19 14:35:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 498.34 Mbit/s

95th percentile per-packet one-way delay: 1.658 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 278.40 Mbit/s

95th percentile per-packet one-way delay: 1.547 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 244.18 Mbit/s

95th percentile per-packet one-way delay: 1.809 ms

Loss rate: 0.07%

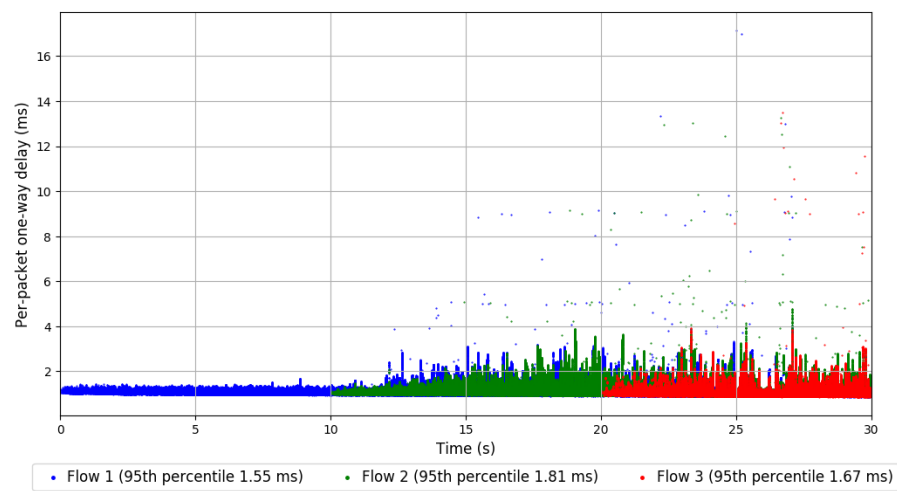
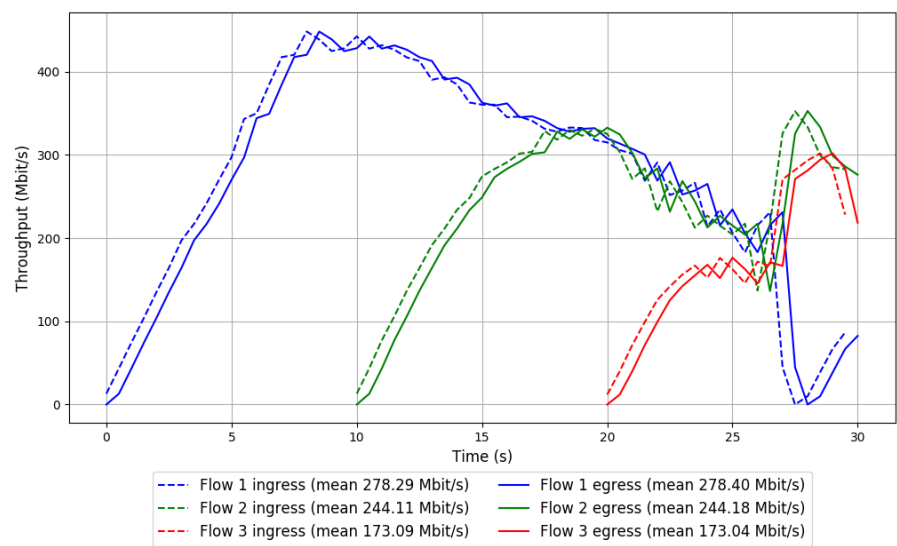
-- Flow 3:

Average throughput: 173.04 Mbit/s

95th percentile per-packet one-way delay: 1.669 ms

Loss rate: 0.28%

Run 9: Report of LEDBAT — Data Link

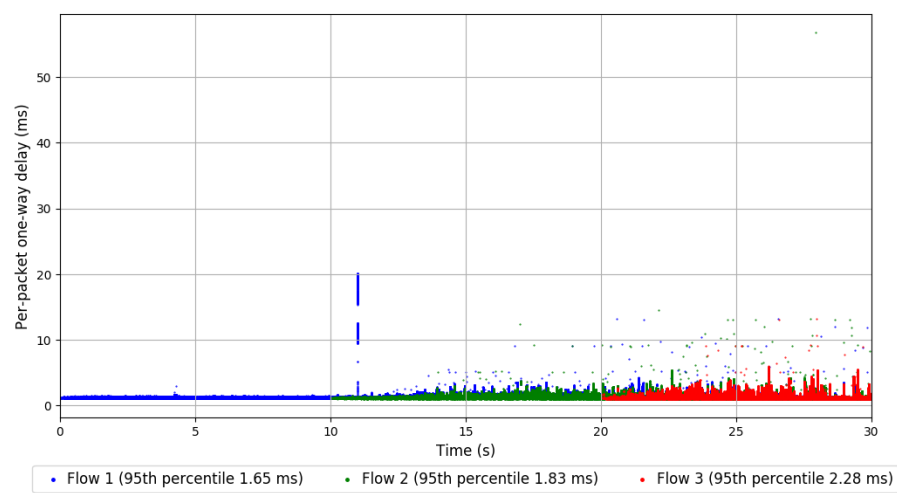
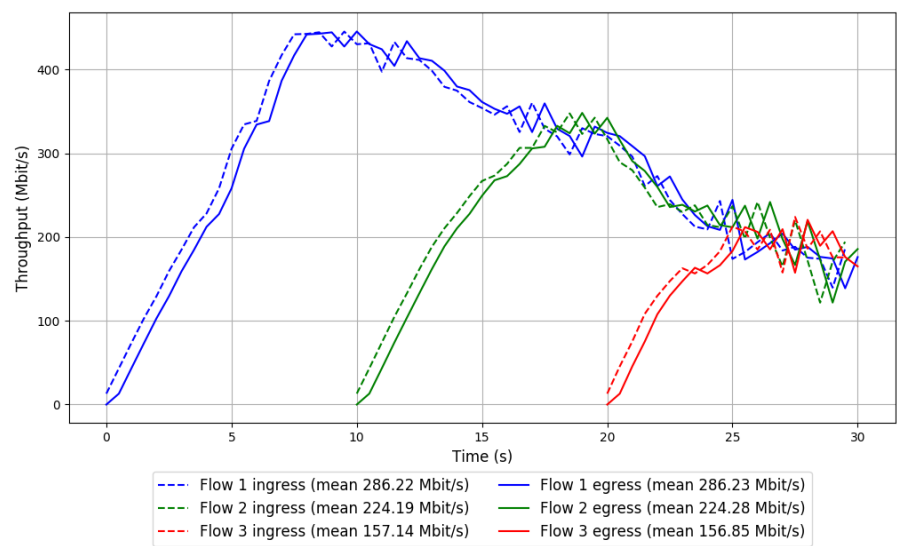


Run 10: Statistics of LEDBAT

Start at: 2018-06-19 13:10:09
End at: 2018-06-19 13:10:39
Local clock offset: 4.266 ms
Remote clock offset: -1.128 ms

Below is generated by plot.py at 2018-06-19 14:35:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 487.51 Mbit/s
95th percentile per-packet one-way delay: 1.784 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 286.23 Mbit/s
95th percentile per-packet one-way delay: 1.646 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 224.28 Mbit/s
95th percentile per-packet one-way delay: 1.830 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 156.85 Mbit/s
95th percentile per-packet one-way delay: 2.282 ms
Loss rate: 0.34%

Run 10: Report of LEDBAT — Data Link

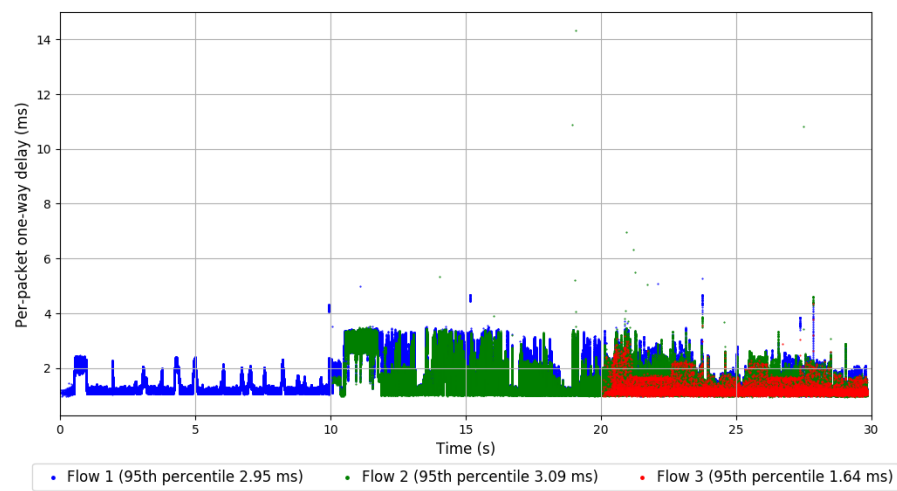
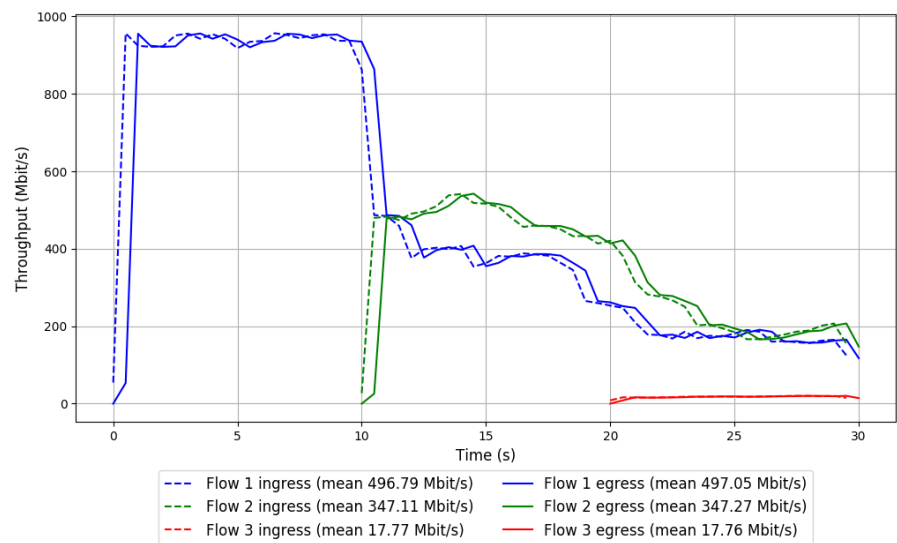


Run 1: Statistics of PCC-Allegro

Start at: 2018-06-19 09:09:27
End at: 2018-06-19 09:09:57
Local clock offset: 3.591 ms
Remote clock offset: -4.376 ms

Below is generated by plot.py at 2018-06-19 14:39:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 733.33 Mbit/s
95th percentile per-packet one-way delay: 3.018 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 497.05 Mbit/s
95th percentile per-packet one-way delay: 2.952 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 347.27 Mbit/s
95th percentile per-packet one-way delay: 3.089 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 17.76 Mbit/s
95th percentile per-packet one-way delay: 1.636 ms
Loss rate: 0.22%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-19 09:34:40

End at: 2018-06-19 09:35:10

Local clock offset: 3.542 ms

Remote clock offset: 3.978 ms

Below is generated by plot.py at 2018-06-19 14:40:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 777.52 Mbit/s

95th percentile per-packet one-way delay: 2.301 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 619.93 Mbit/s

95th percentile per-packet one-way delay: 2.307 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 159.52 Mbit/s

95th percentile per-packet one-way delay: 2.263 ms

Loss rate: 0.13%

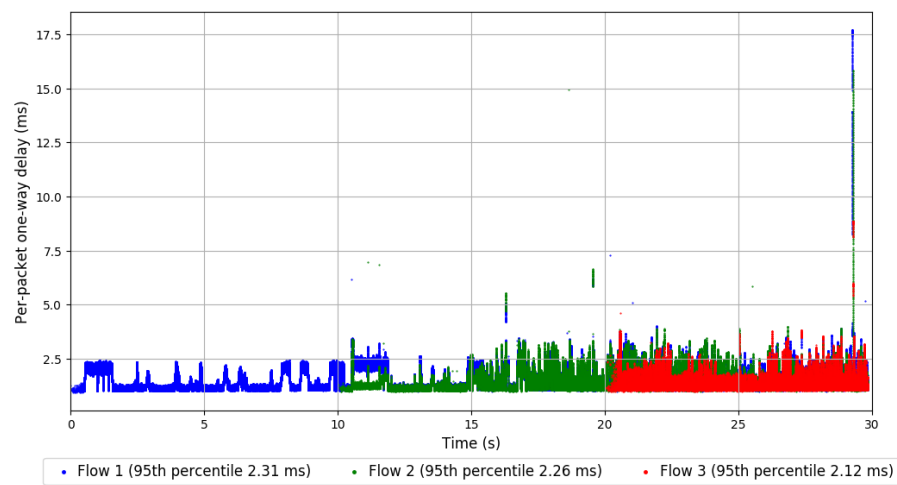
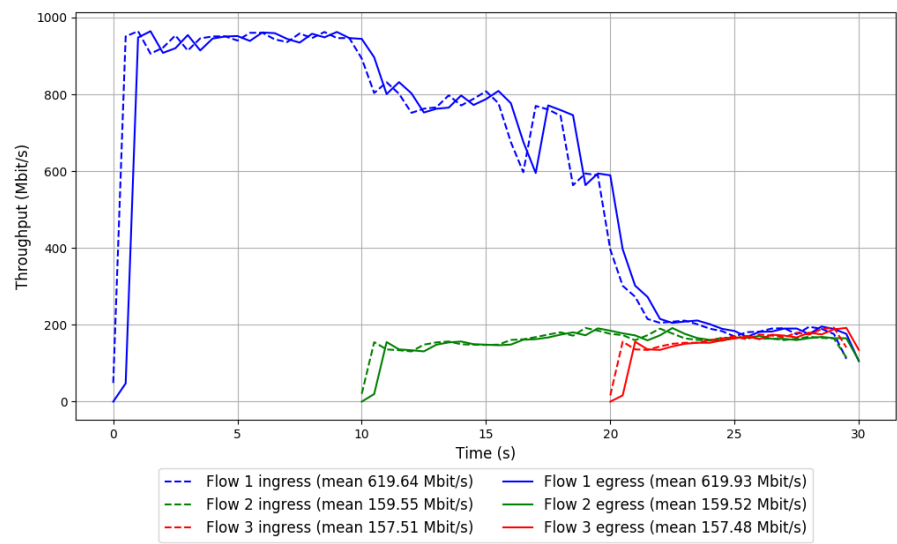
-- Flow 3:

Average throughput: 157.48 Mbit/s

95th percentile per-packet one-way delay: 2.116 ms

Loss rate: 0.24%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-19 09:59:41

End at: 2018-06-19 10:00:11

Local clock offset: 3.634 ms

Remote clock offset: 0.585 ms

Below is generated by plot.py at 2018-06-19 14:40:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 792.69 Mbit/s

95th percentile per-packet one-way delay: 2.395 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 559.52 Mbit/s

95th percentile per-packet one-way delay: 2.407 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 281.39 Mbit/s

95th percentile per-packet one-way delay: 2.400 ms

Loss rate: 0.06%

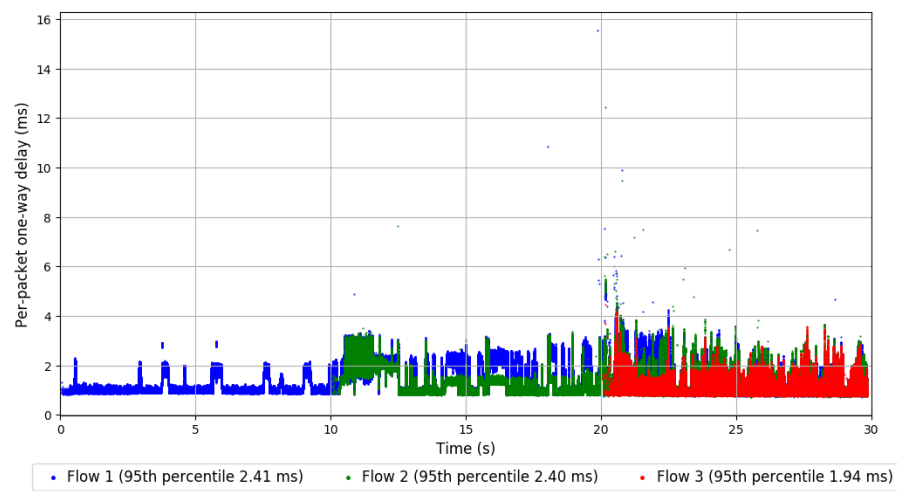
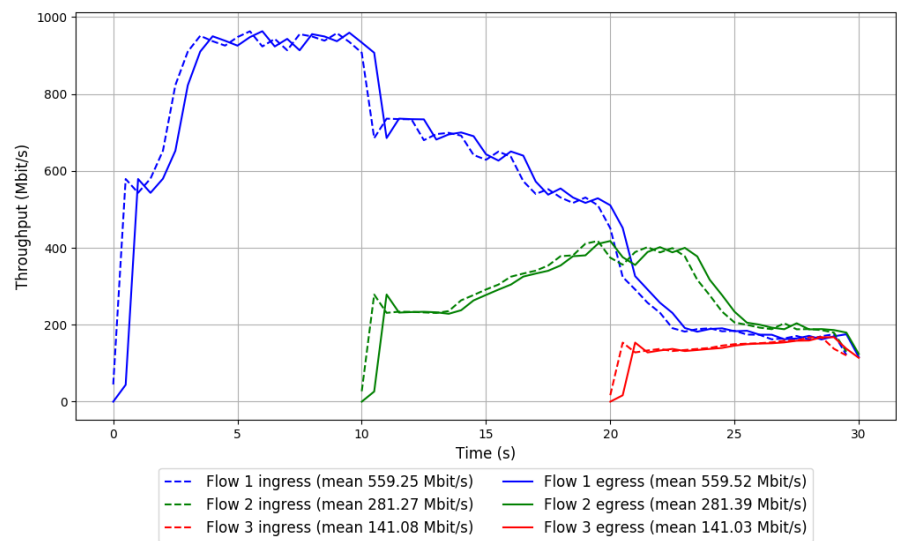
-- Flow 3:

Average throughput: 141.03 Mbit/s

95th percentile per-packet one-way delay: 1.943 ms

Loss rate: 0.23%

Run 3: Report of PCC-Allegro — Data Link

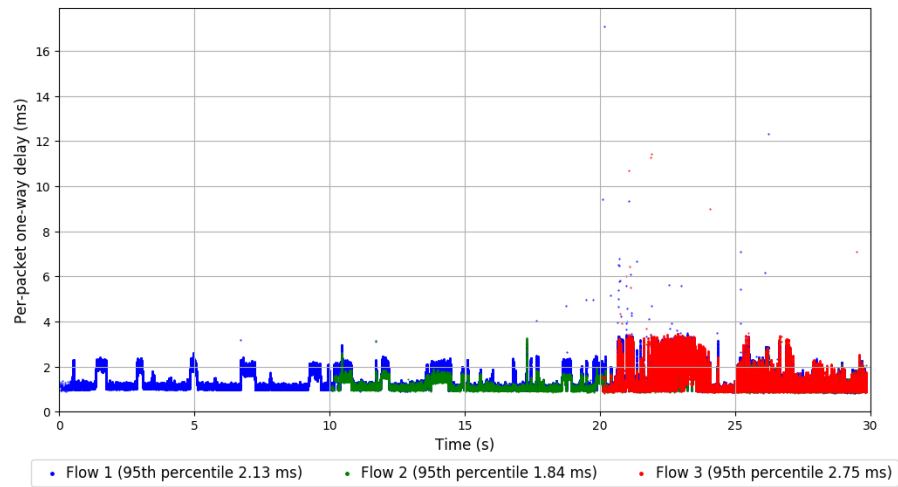
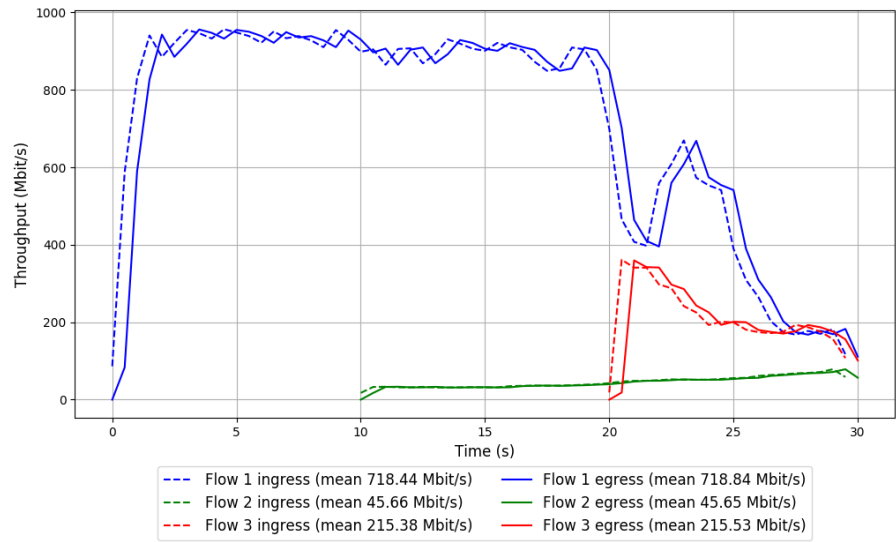


Run 4: Statistics of PCC-Allegro

Start at: 2018-06-19 10:24:40
End at: 2018-06-19 10:25:10
Local clock offset: 3.68 ms
Remote clock offset: -2.279 ms

Below is generated by plot.py at 2018-06-19 14:41:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 819.85 Mbit/s
95th percentile per-packet one-way delay: 2.147 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 718.84 Mbit/s
95th percentile per-packet one-way delay: 2.129 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 45.65 Mbit/s
95th percentile per-packet one-way delay: 1.841 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 215.53 Mbit/s
95th percentile per-packet one-way delay: 2.745 ms
Loss rate: 0.15%

Run 4: Report of PCC-Allegro — Data Link

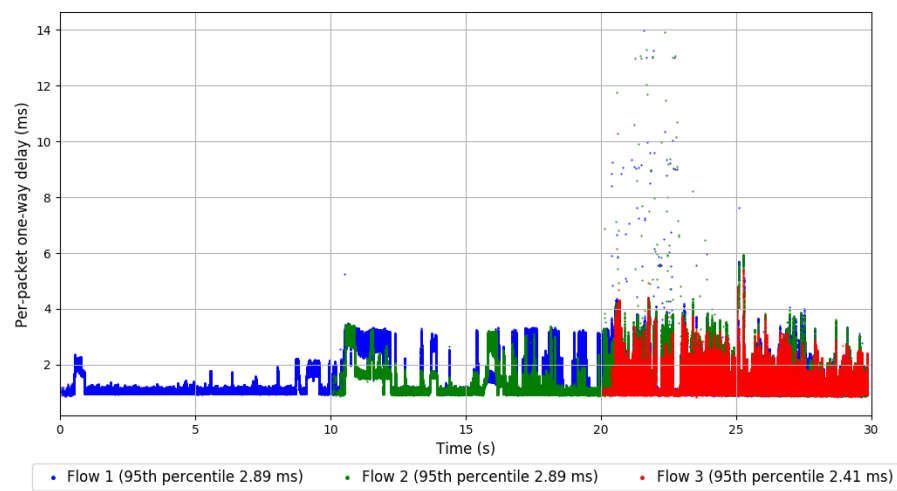
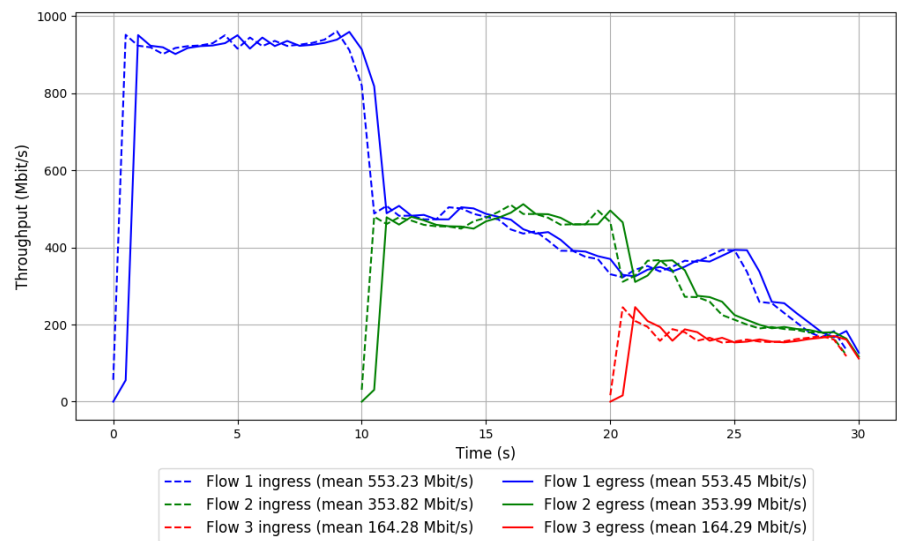


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-19 10:49:51
End at: 2018-06-19 10:50:21
Local clock offset: 3.592 ms
Remote clock offset: -4.917 ms

Below is generated by plot.py at 2018-06-19 14:41:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 842.48 Mbit/s
95th percentile per-packet one-way delay: 2.873 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 553.45 Mbit/s
95th percentile per-packet one-way delay: 2.891 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 353.99 Mbit/s
95th percentile per-packet one-way delay: 2.889 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 164.29 Mbit/s
95th percentile per-packet one-way delay: 2.409 ms
Loss rate: 0.19%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-19 11:15:07

End at: 2018-06-19 11:15:37

Local clock offset: 3.596 ms

Remote clock offset: 2.957 ms

Below is generated by plot.py at 2018-06-19 14:41:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 822.71 Mbit/s

95th percentile per-packet one-way delay: 2.876 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 581.22 Mbit/s

95th percentile per-packet one-way delay: 2.587 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 274.82 Mbit/s

95th percentile per-packet one-way delay: 3.106 ms

Loss rate: 0.08%

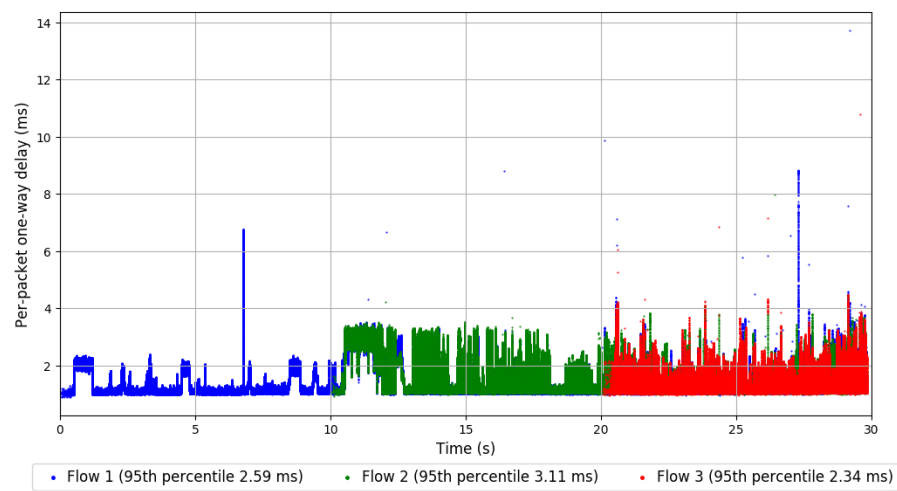
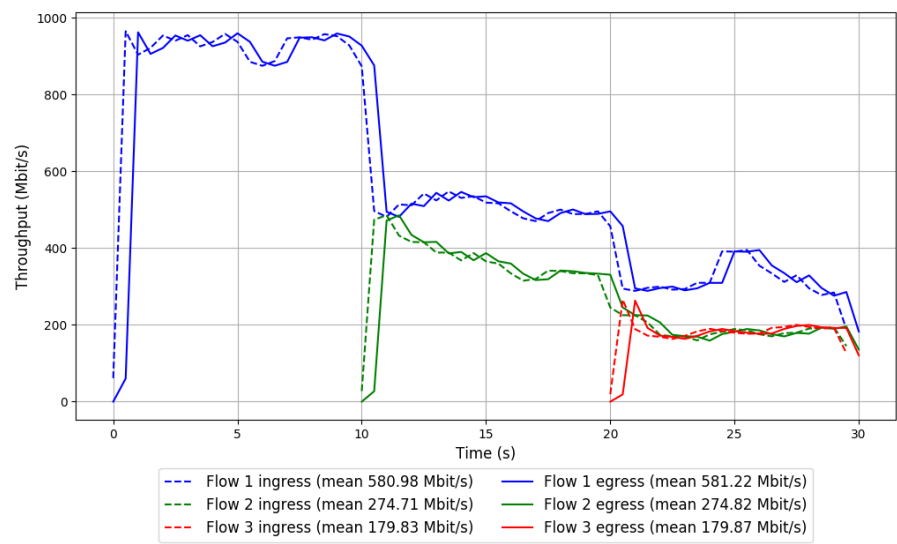
-- Flow 3:

Average throughput: 179.87 Mbit/s

95th percentile per-packet one-way delay: 2.336 ms

Loss rate: 0.16%

Run 6: Report of PCC-Allegro — Data Link

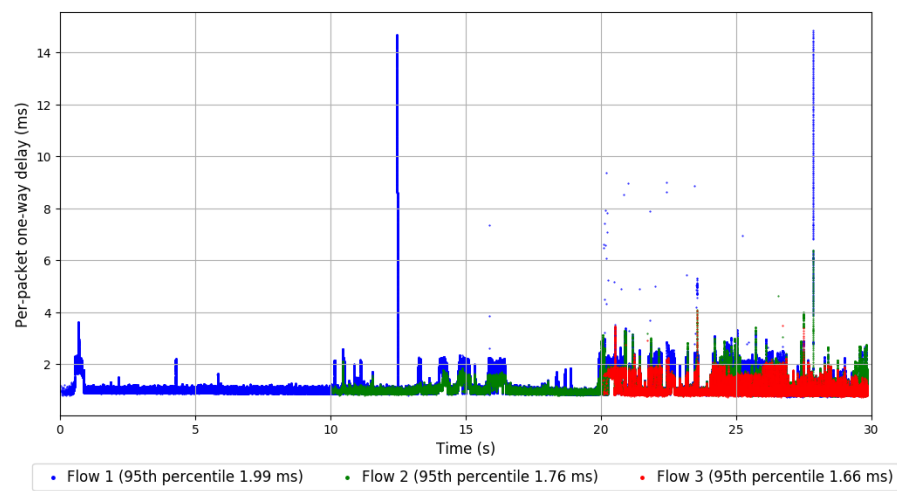
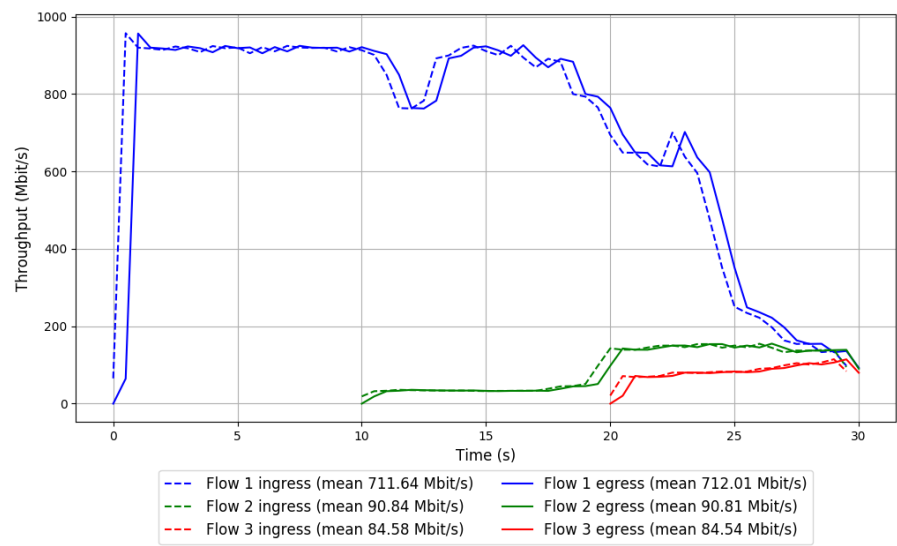


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-19 11:40:13
End at: 2018-06-19 11:40:43
Local clock offset: 3.679 ms
Remote clock offset: 1.086 ms

Below is generated by plot.py at 2018-06-19 14:44:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 800.05 Mbit/s
95th percentile per-packet one-way delay: 1.978 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 712.01 Mbit/s
95th percentile per-packet one-way delay: 1.993 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 90.81 Mbit/s
95th percentile per-packet one-way delay: 1.758 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 84.54 Mbit/s
95th percentile per-packet one-way delay: 1.662 ms
Loss rate: 0.26%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-19 12:05:25

End at: 2018-06-19 12:05:55

Local clock offset: 3.605 ms

Remote clock offset: 0.185 ms

Below is generated by plot.py at 2018-06-19 14:45:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 798.71 Mbit/s

95th percentile per-packet one-way delay: 2.355 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 676.79 Mbit/s

95th percentile per-packet one-way delay: 2.362 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 121.00 Mbit/s

95th percentile per-packet one-way delay: 2.259 ms

Loss rate: 0.13%

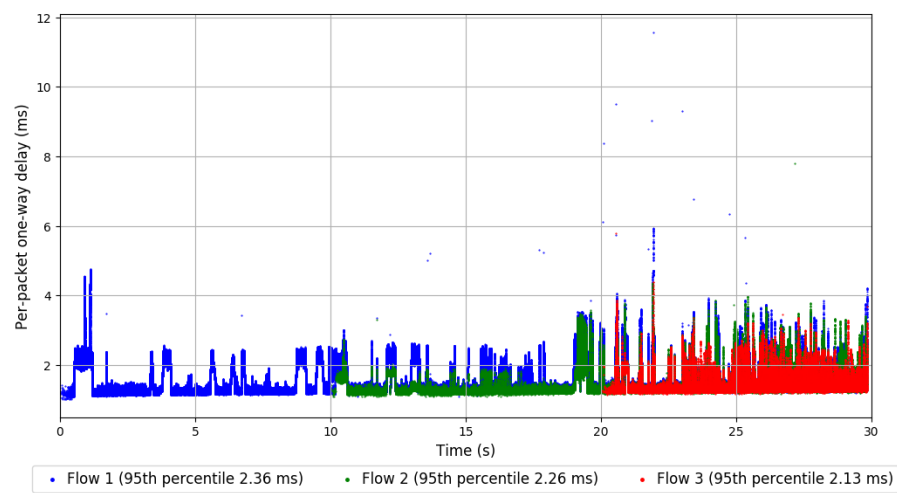
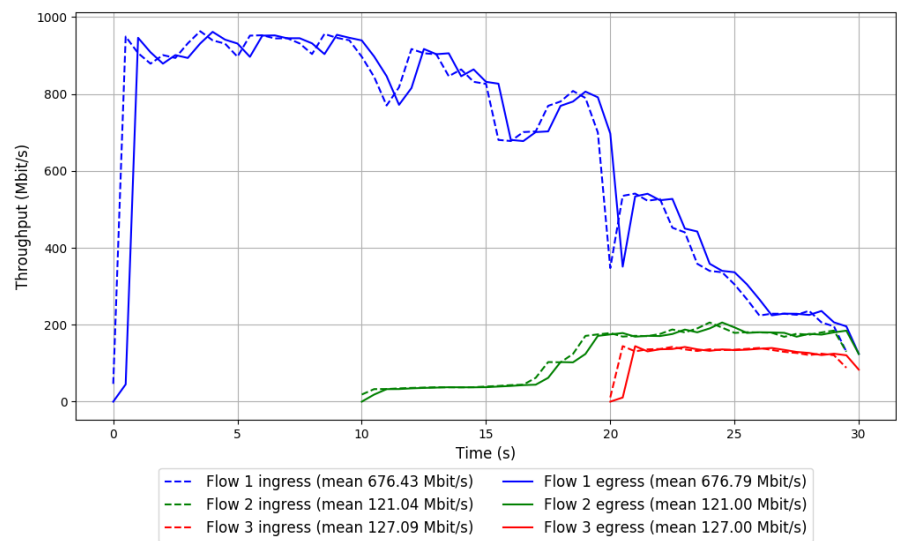
-- Flow 3:

Average throughput: 127.00 Mbit/s

95th percentile per-packet one-way delay: 2.133 ms

Loss rate: 0.22%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-19 12:30:46

End at: 2018-06-19 12:31:16

Local clock offset: 3.617 ms

Remote clock offset: 4.117 ms

Below is generated by plot.py at 2018-06-19 14:48:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 774.51 Mbit/s

95th percentile per-packet one-way delay: 2.301 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 635.34 Mbit/s

95th percentile per-packet one-way delay: 2.327 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 193.63 Mbit/s

95th percentile per-packet one-way delay: 2.119 ms

Loss rate: 0.09%

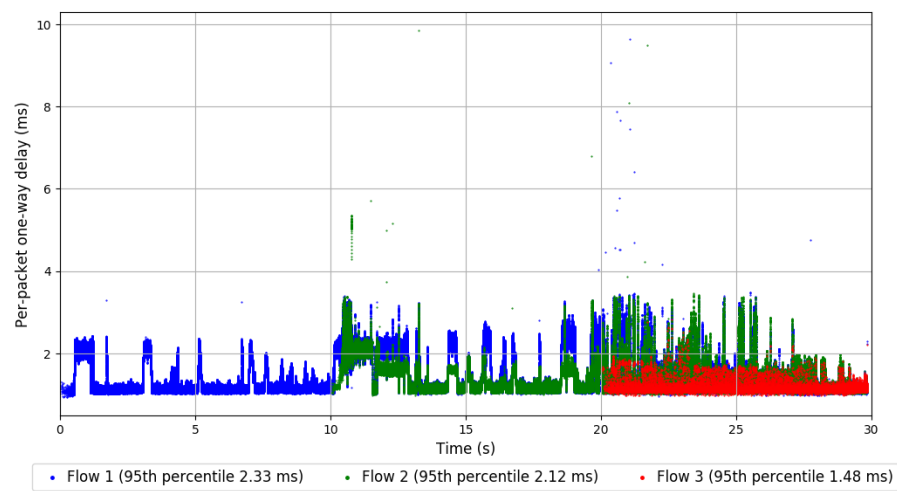
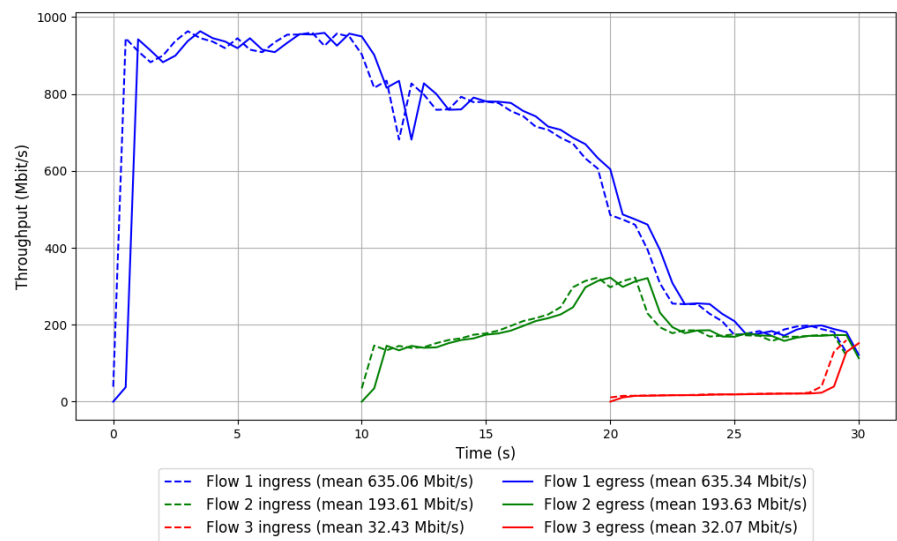
-- Flow 3:

Average throughput: 32.07 Mbit/s

95th percentile per-packet one-way delay: 1.480 ms

Loss rate: 1.30%

Run 9: Report of PCC-Allegro — Data Link

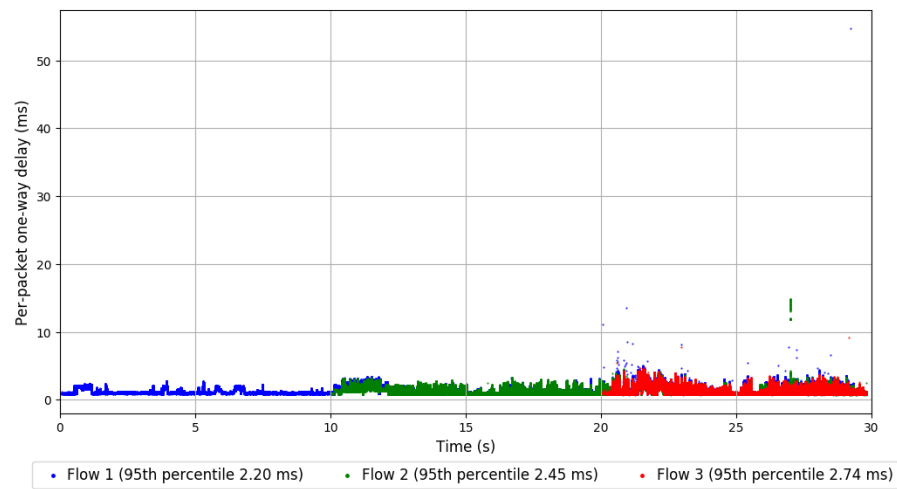
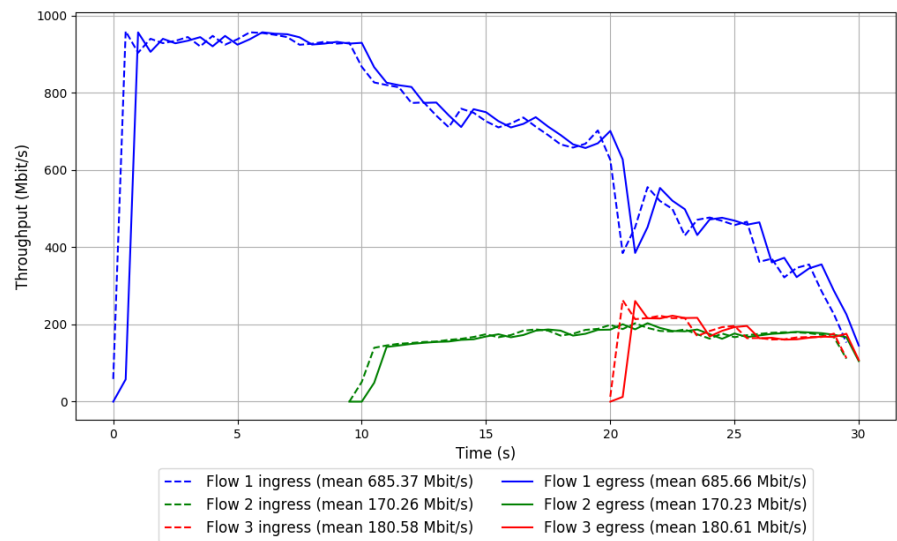


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-19 12:55:56
End at: 2018-06-19 12:56:26
Local clock offset: 3.842 ms
Remote clock offset: -0.266 ms

Below is generated by plot.py at 2018-06-19 14:50:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 858.11 Mbit/s
95th percentile per-packet one-way delay: 2.296 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 685.66 Mbit/s
95th percentile per-packet one-way delay: 2.198 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 170.23 Mbit/s
95th percentile per-packet one-way delay: 2.452 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 180.61 Mbit/s
95th percentile per-packet one-way delay: 2.739 ms
Loss rate: 0.16%

Run 10: Report of PCC-Allegro — Data Link

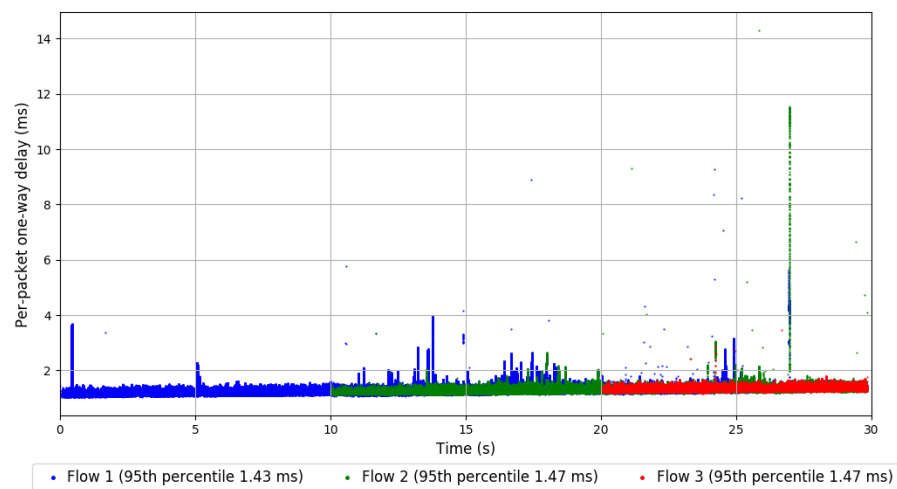
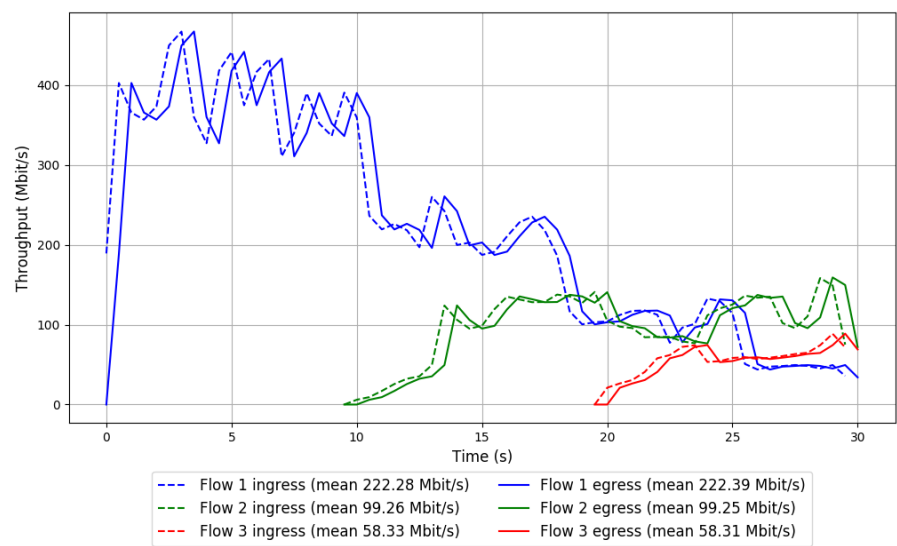


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-19 09:19:03
End at: 2018-06-19 09:19:33
Local clock offset: 3.568 ms
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2018-06-19 14:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 307.65 Mbit/s
95th percentile per-packet one-way delay: 1.449 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 222.39 Mbit/s
95th percentile per-packet one-way delay: 1.429 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 99.25 Mbit/s
95th percentile per-packet one-way delay: 1.473 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 58.31 Mbit/s
95th percentile per-packet one-way delay: 1.470 ms
Loss rate: 0.22%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-06-19 09:44:14

End at: 2018-06-19 09:44:44

Local clock offset: 3.666 ms

Remote clock offset: 5.082 ms

Below is generated by plot.py at 2018-06-19 14:50:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.49 Mbit/s

95th percentile per-packet one-way delay: 1.307 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 231.80 Mbit/s

95th percentile per-packet one-way delay: 1.316 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 47.32 Mbit/s

95th percentile per-packet one-way delay: 1.300 ms

Loss rate: 0.13%

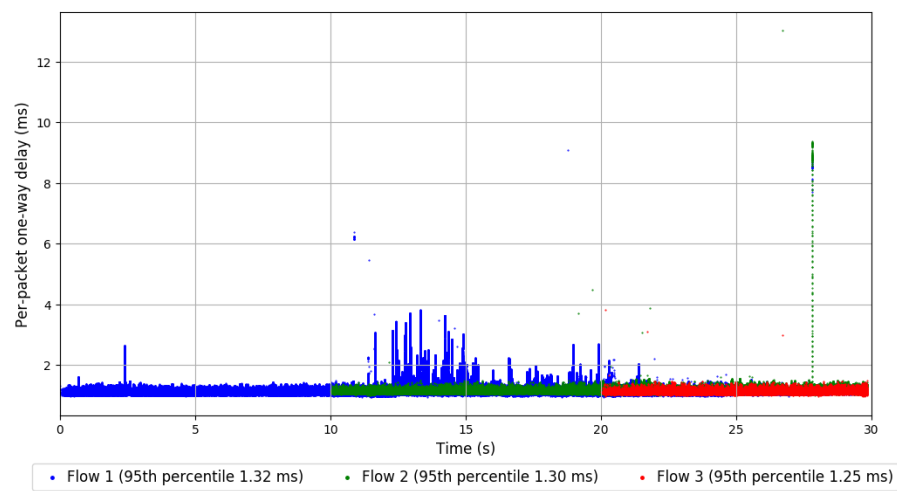
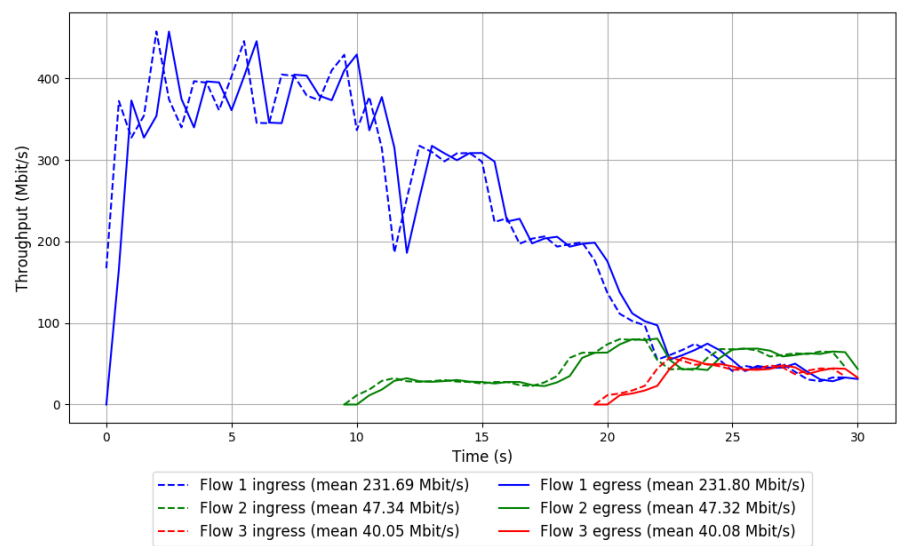
-- Flow 3:

Average throughput: 40.08 Mbit/s

95th percentile per-packet one-way delay: 1.252 ms

Loss rate: 0.23%

Run 2: Report of PCC-Expr — Data Link

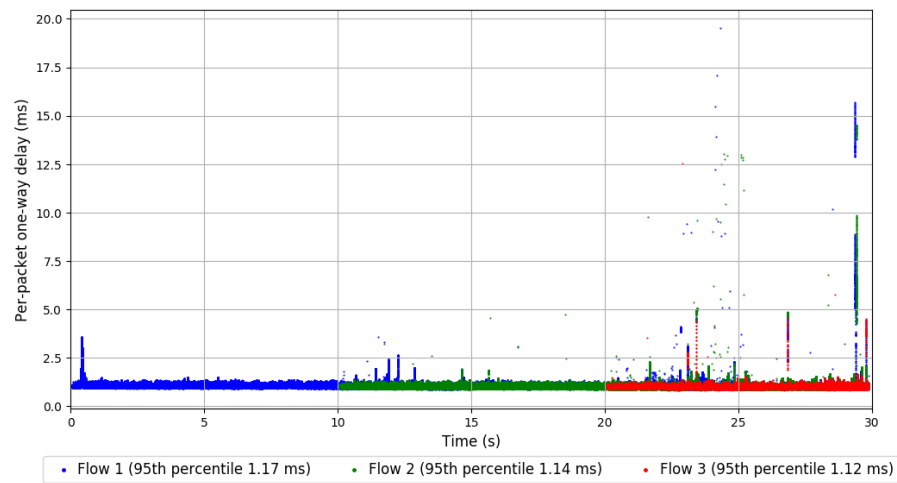
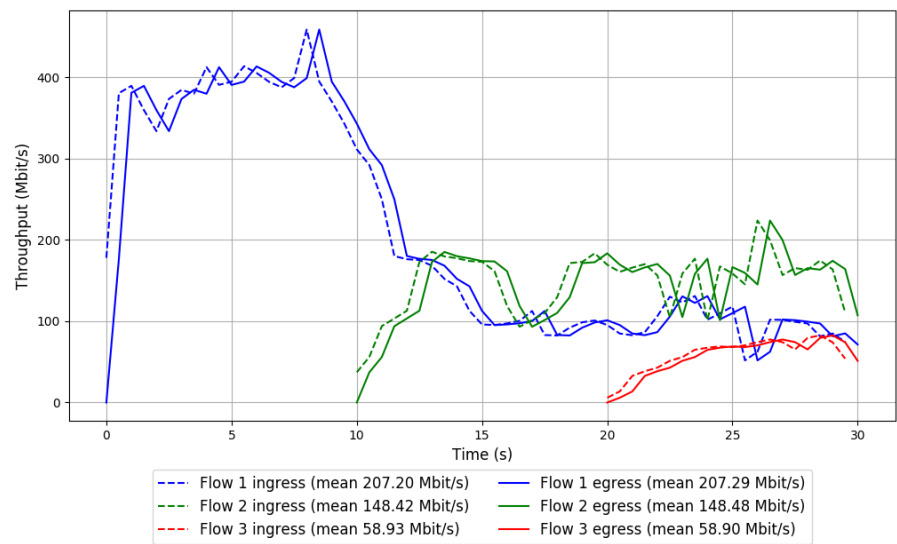


Run 3: Statistics of PCC-Expr

Start at: 2018-06-19 10:09:16
End at: 2018-06-19 10:09:46
Local clock offset: 3.712 ms
Remote clock offset: -0.595 ms

Below is generated by plot.py at 2018-06-19 14:50:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 325.41 Mbit/s
95th percentile per-packet one-way delay: 1.159 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 207.29 Mbit/s
95th percentile per-packet one-way delay: 1.168 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 148.48 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 58.90 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.25%

Run 3: Report of PCC-Expr — Data Link

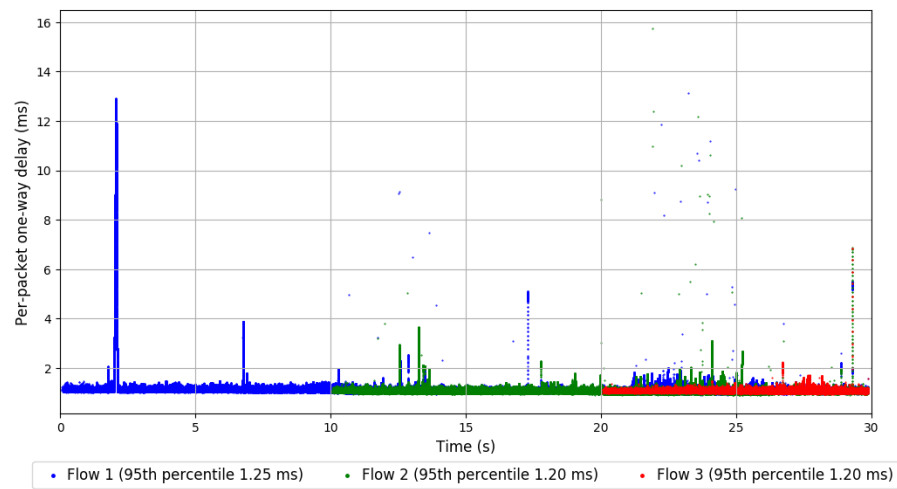
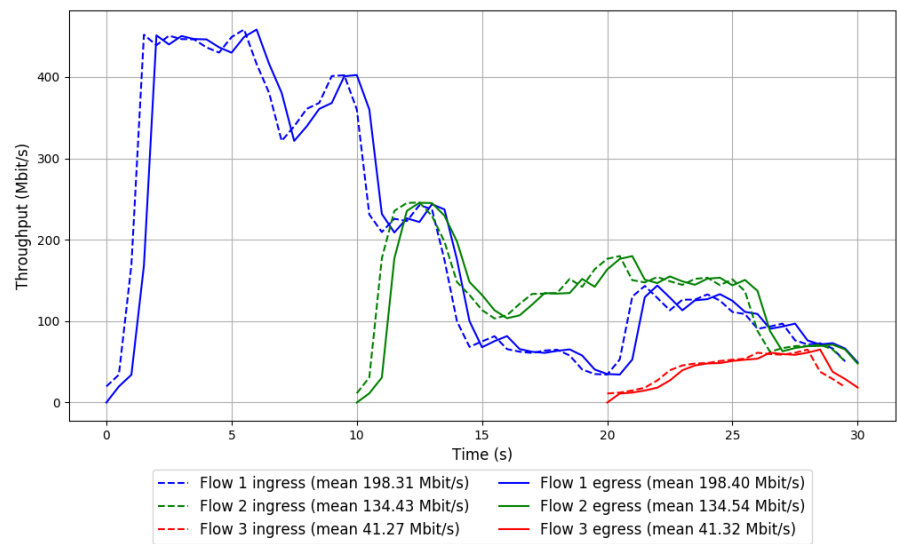


Run 4: Statistics of PCC-Expr

Start at: 2018-06-19 10:34:16
End at: 2018-06-19 10:34:46
Local clock offset: 3.71 ms
Remote clock offset: -3.672 ms

Below is generated by plot.py at 2018-06-19 14:50:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 301.39 Mbit/s
95th percentile per-packet one-way delay: 1.238 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 198.40 Mbit/s
95th percentile per-packet one-way delay: 1.250 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 134.54 Mbit/s
95th percentile per-packet one-way delay: 1.202 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 41.32 Mbit/s
95th percentile per-packet one-way delay: 1.195 ms
Loss rate: 0.09%

Run 4: Report of PCC-Expr — Data Link

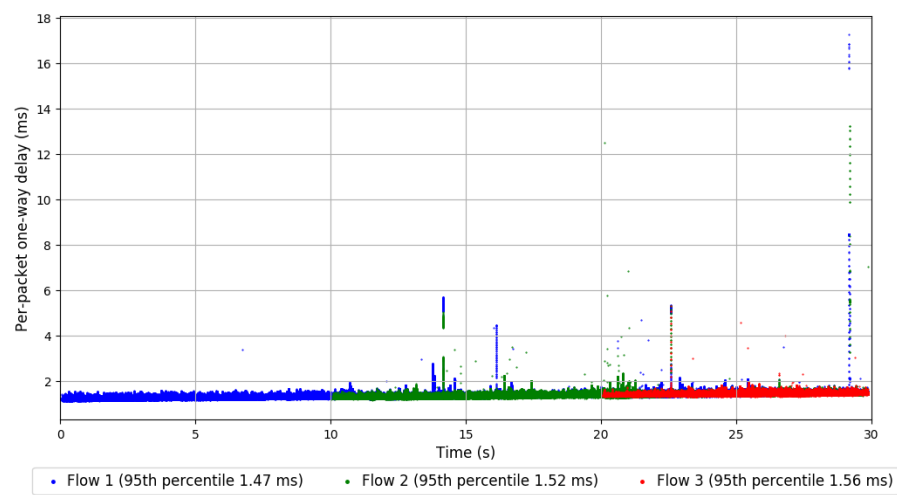
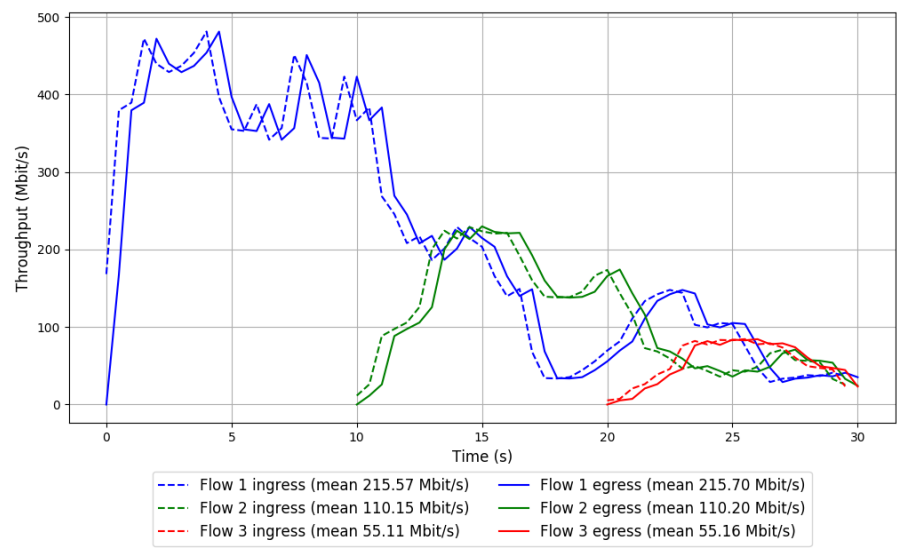


Run 5: Statistics of PCC-Expr

Start at: 2018-06-19 10:59:30
End at: 2018-06-19 11:00:00
Local clock offset: 3.6 ms
Remote clock offset: -1.986 ms

Below is generated by plot.py at 2018-06-19 14:51:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 307.07 Mbit/s
95th percentile per-packet one-way delay: 1.496 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 215.70 Mbit/s
95th percentile per-packet one-way delay: 1.473 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 110.20 Mbit/s
95th percentile per-packet one-way delay: 1.517 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 55.16 Mbit/s
95th percentile per-packet one-way delay: 1.556 ms
Loss rate: 0.10%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-19 11:24:42

End at: 2018-06-19 11:25:12

Local clock offset: 3.733 ms

Remote clock offset: 4.021 ms

Below is generated by plot.py at 2018-06-19 14:54:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 369.57 Mbit/s

95th percentile per-packet one-way delay: 1.298 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 212.75 Mbit/s

95th percentile per-packet one-way delay: 1.234 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 195.48 Mbit/s

95th percentile per-packet one-way delay: 1.551 ms

Loss rate: 0.05%

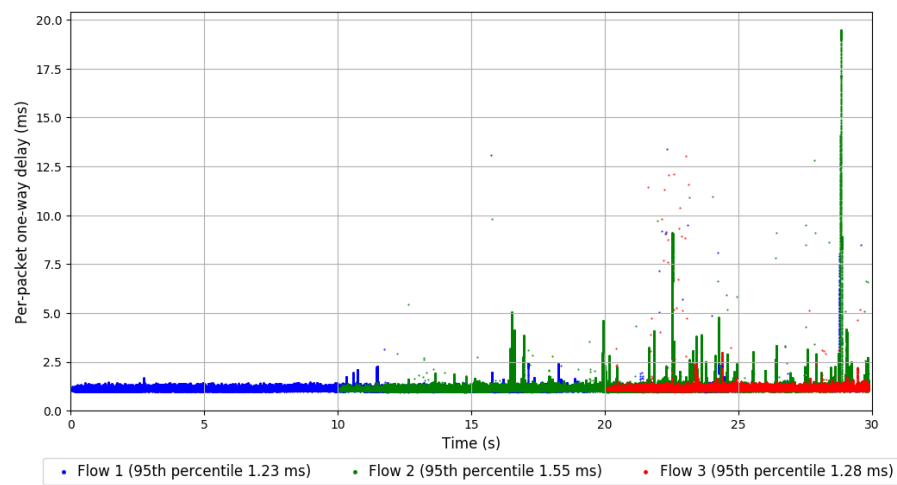
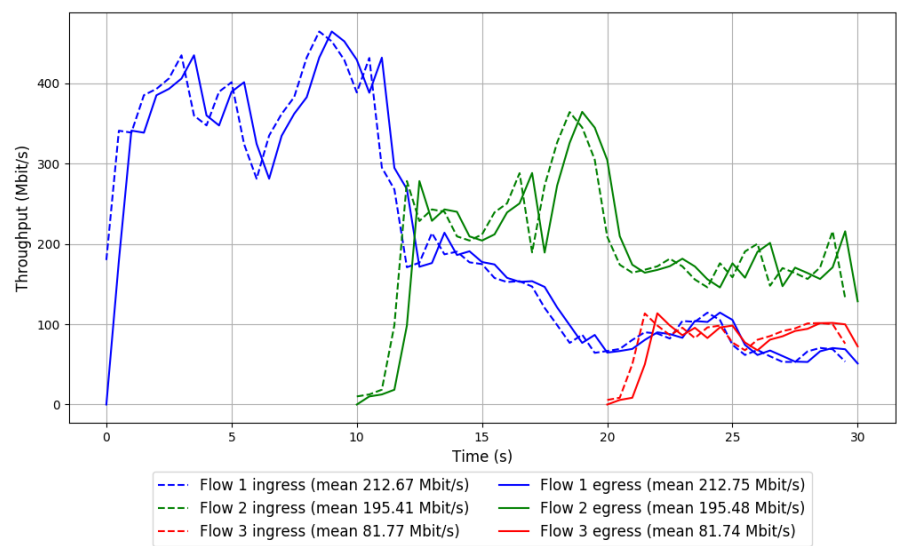
-- Flow 3:

Average throughput: 81.74 Mbit/s

95th percentile per-packet one-way delay: 1.284 ms

Loss rate: 0.23%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-19 11:49:49

End at: 2018-06-19 11:50:19

Local clock offset: 3.536 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-06-19 14:54:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.47 Mbit/s

95th percentile per-packet one-way delay: 1.097 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 232.37 Mbit/s

95th percentile per-packet one-way delay: 1.111 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 1.048 ms

Loss rate: 0.04%

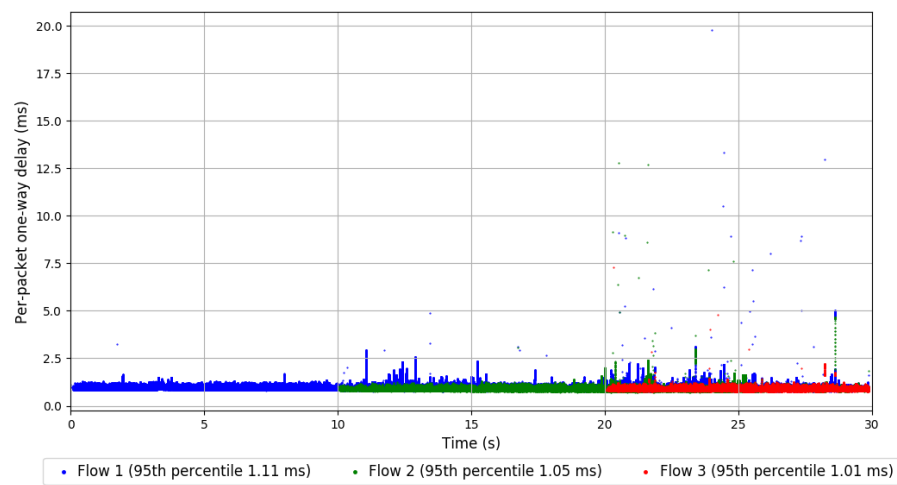
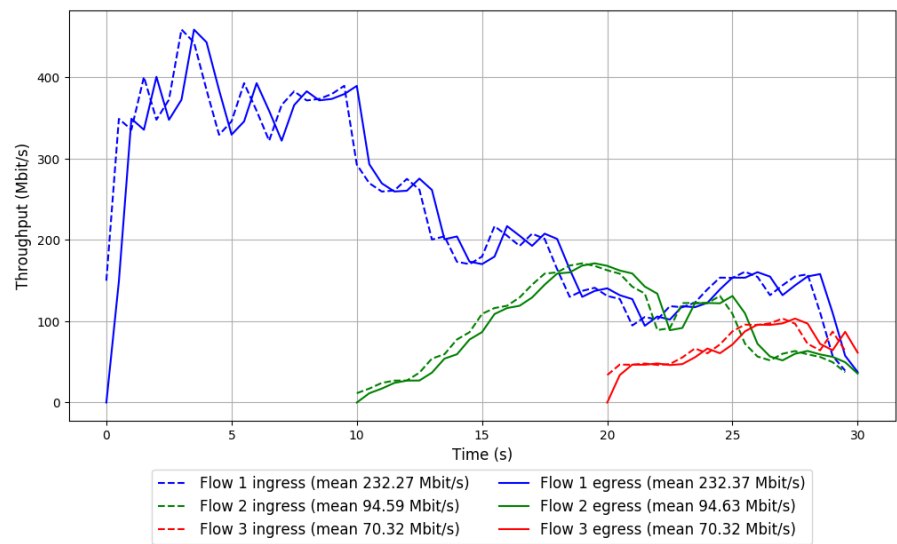
-- Flow 3:

Average throughput: 70.32 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.19%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-19 12:15:02

End at: 2018-06-19 12:15:32

Local clock offset: 3.62 ms

Remote clock offset: 2.565 ms

Below is generated by plot.py at 2018-06-19 14:55:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.02 Mbit/s

95th percentile per-packet one-way delay: 1.709 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 250.74 Mbit/s

95th percentile per-packet one-way delay: 1.795 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 125.73 Mbit/s

95th percentile per-packet one-way delay: 1.453 ms

Loss rate: 0.06%

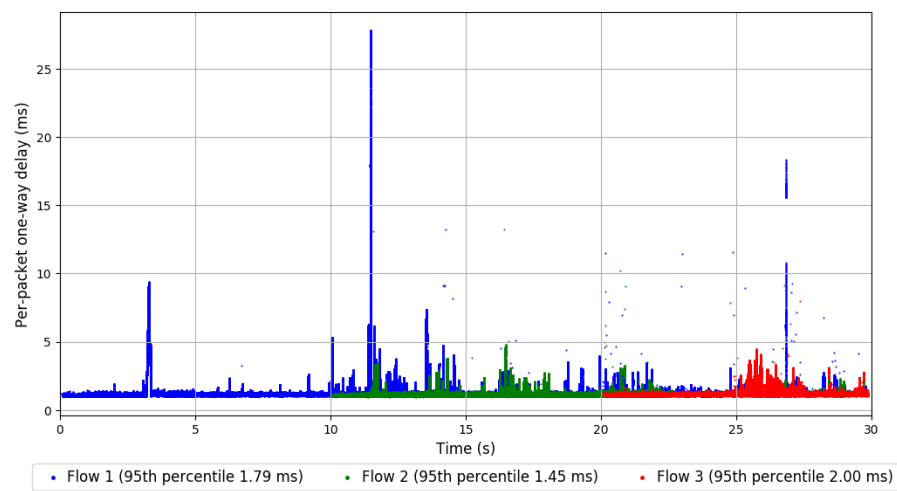
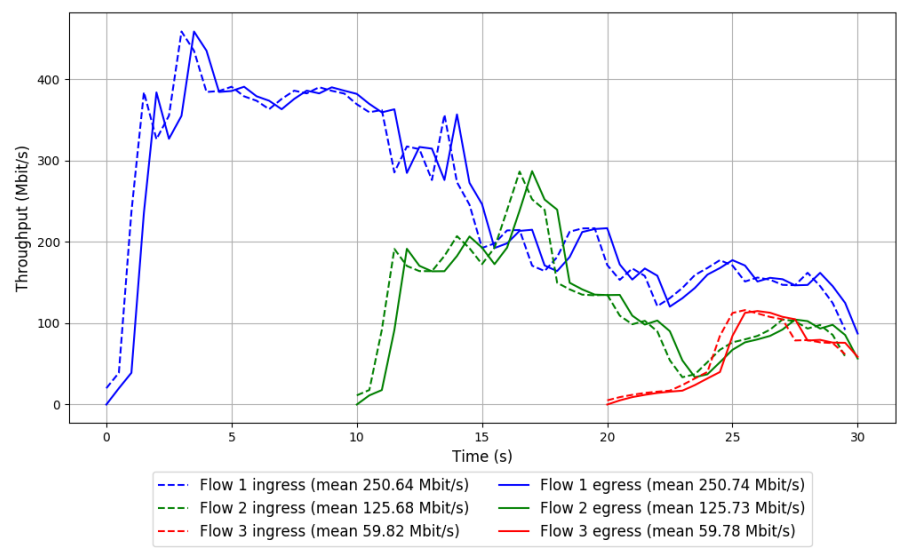
-- Flow 3:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 2.003 ms

Loss rate: 0.27%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-19 12:40:28

End at: 2018-06-19 12:40:58

Local clock offset: 3.691 ms

Remote clock offset: 3.097 ms

Below is generated by plot.py at 2018-06-19 14:55:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.93 Mbit/s

95th percentile per-packet one-way delay: 1.111 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 221.51 Mbit/s

95th percentile per-packet one-way delay: 1.269 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 53.02 Mbit/s

95th percentile per-packet one-way delay: 0.871 ms

Loss rate: 0.13%

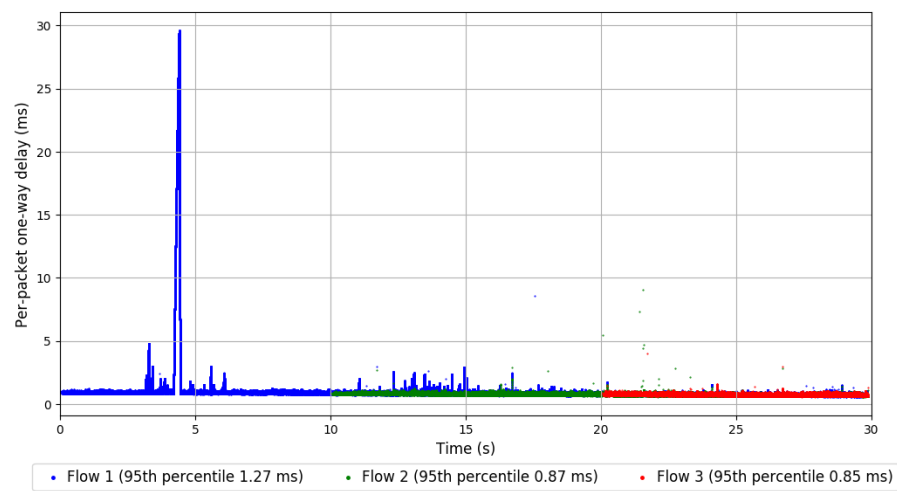
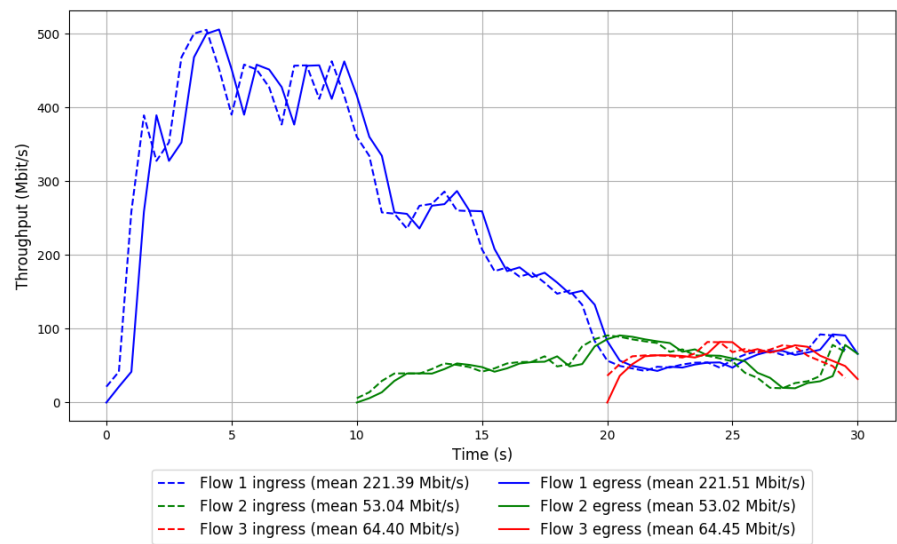
-- Flow 3:

Average throughput: 64.45 Mbit/s

95th percentile per-packet one-way delay: 0.855 ms

Loss rate: 0.12%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-19 13:05:38

End at: 2018-06-19 13:06:08

Local clock offset: 3.967 ms

Remote clock offset: -0.93 ms

Below is generated by plot.py at 2018-06-19 14:55:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.26 Mbit/s

95th percentile per-packet one-way delay: 1.080 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 219.18 Mbit/s

95th percentile per-packet one-way delay: 1.087 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 97.89 Mbit/s

95th percentile per-packet one-way delay: 1.059 ms

Loss rate: 0.05%

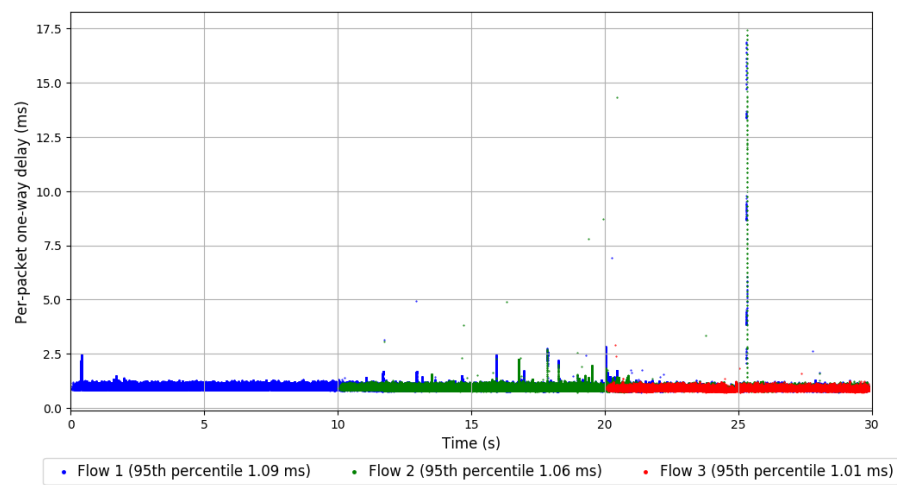
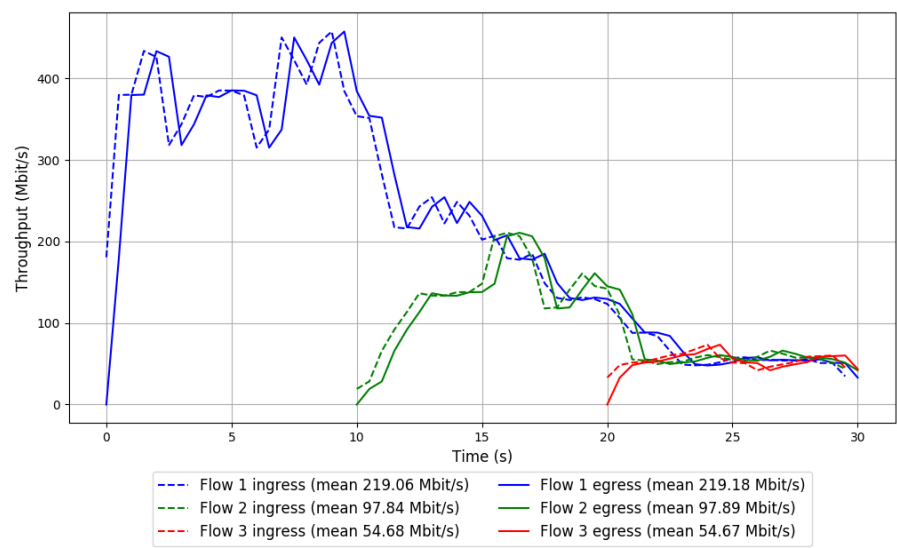
-- Flow 3:

Average throughput: 54.67 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.20%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-19 09:22:12

End at: 2018-06-19 09:22:42

Local clock offset: 3.537 ms

Remote clock offset: 1.116 ms

Below is generated by plot.py at 2018-06-19 14:55:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.28 Mbit/s

95th percentile per-packet one-way delay: 1.356 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 71.44 Mbit/s

95th percentile per-packet one-way delay: 1.330 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 64.31 Mbit/s

95th percentile per-packet one-way delay: 1.358 ms

Loss rate: 0.09%

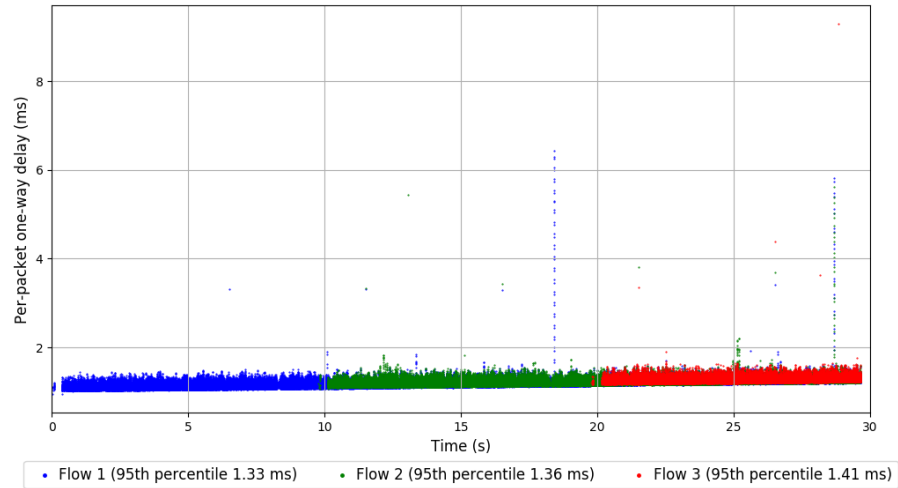
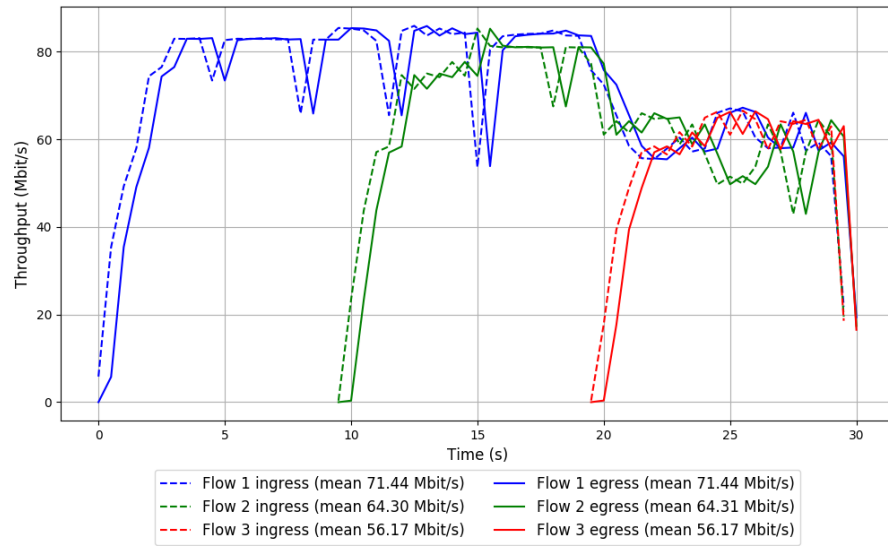
-- Flow 3:

Average throughput: 56.17 Mbit/s

95th percentile per-packet one-way delay: 1.405 ms

Loss rate: 0.20%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-19 09:47:20

End at: 2018-06-19 09:47:50

Local clock offset: 3.58 ms

Remote clock offset: 5.329 ms

Below is generated by plot.py at 2018-06-19 14:55:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.74 Mbit/s

95th percentile per-packet one-way delay: 0.690 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 69.31 Mbit/s

95th percentile per-packet one-way delay: 0.717 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 65.01 Mbit/s

95th percentile per-packet one-way delay: 0.632 ms

Loss rate: 0.11%

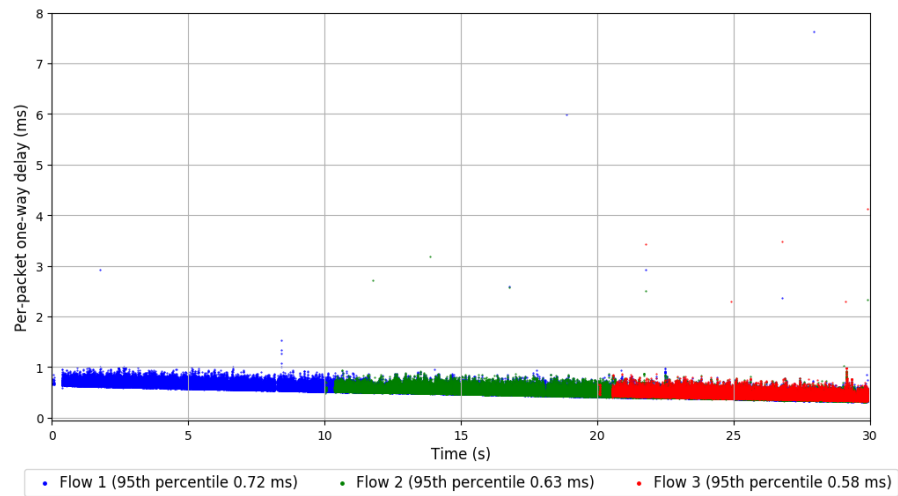
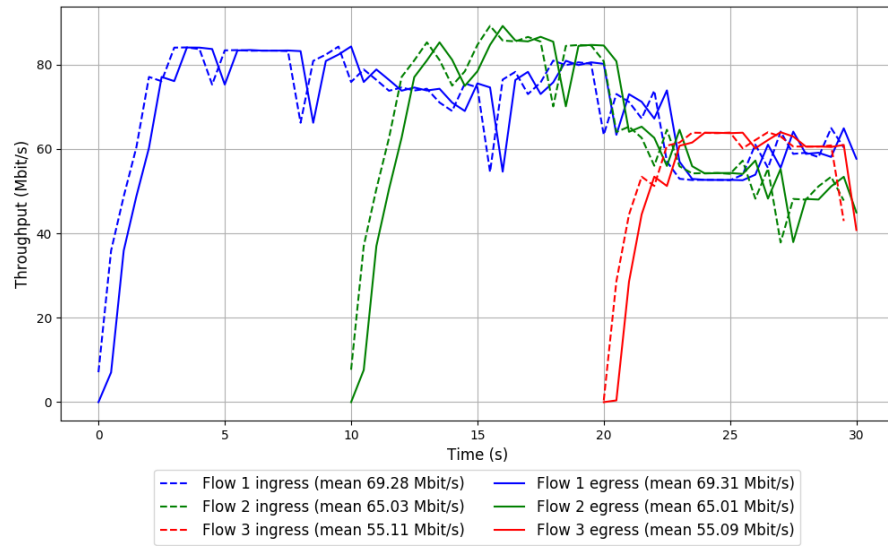
-- Flow 3:

Average throughput: 55.09 Mbit/s

95th percentile per-packet one-way delay: 0.578 ms

Loss rate: 0.20%

Run 2: Report of QUIC Cubic — Data Link

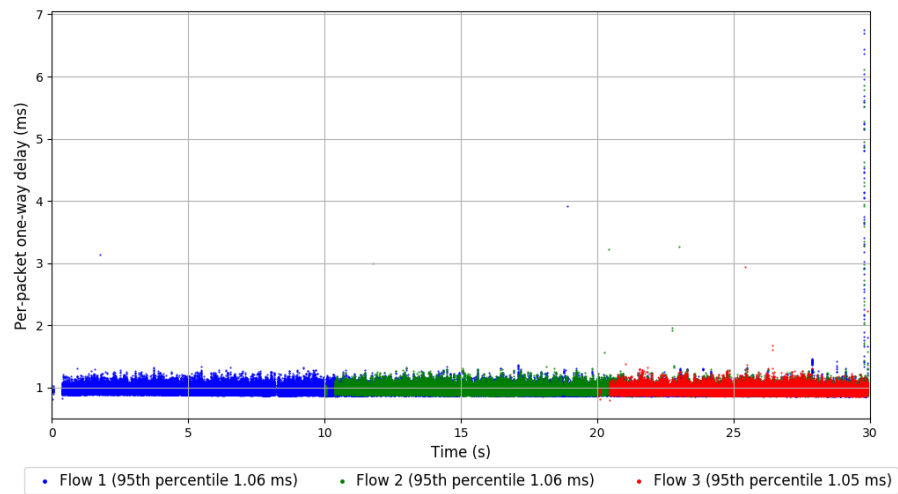
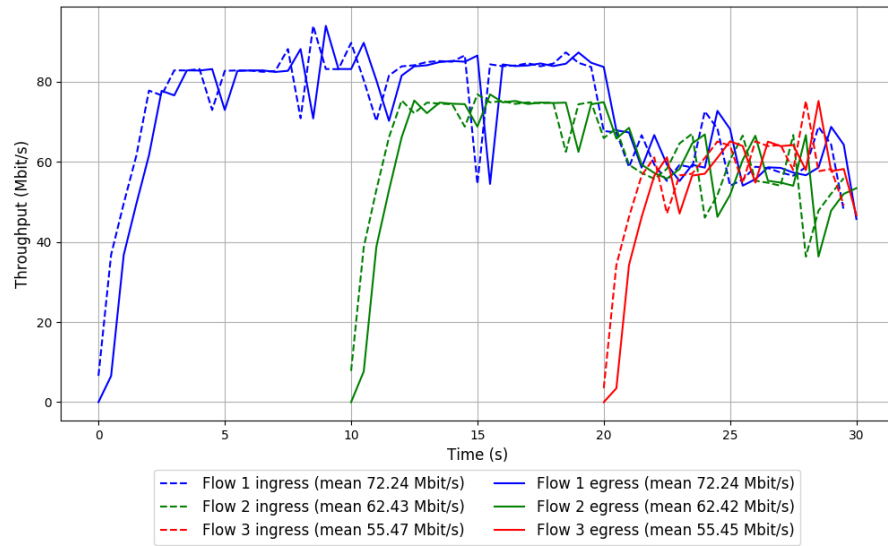


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-19 10:12:24
End at: 2018-06-19 10:12:54
Local clock offset: 3.588 ms
Remote clock offset: -0.904 ms

Below is generated by plot.py at 2018-06-19 14:55:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 132.08 Mbit/s
95th percentile per-packet one-way delay: 1.061 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 72.24 Mbit/s
95th percentile per-packet one-way delay: 1.062 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 62.42 Mbit/s
95th percentile per-packet one-way delay: 1.063 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 55.45 Mbit/s
95th percentile per-packet one-way delay: 1.051 ms
Loss rate: 0.24%

Run 3: Report of QUIC Cubic — Data Link

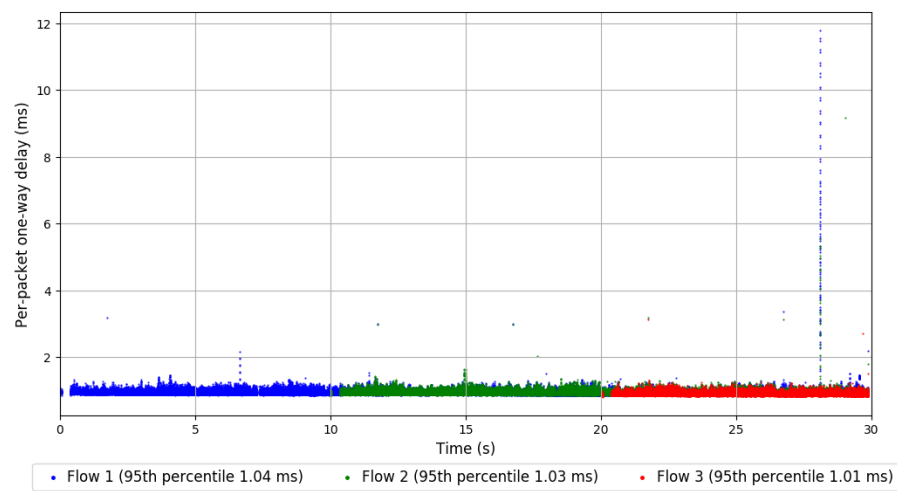
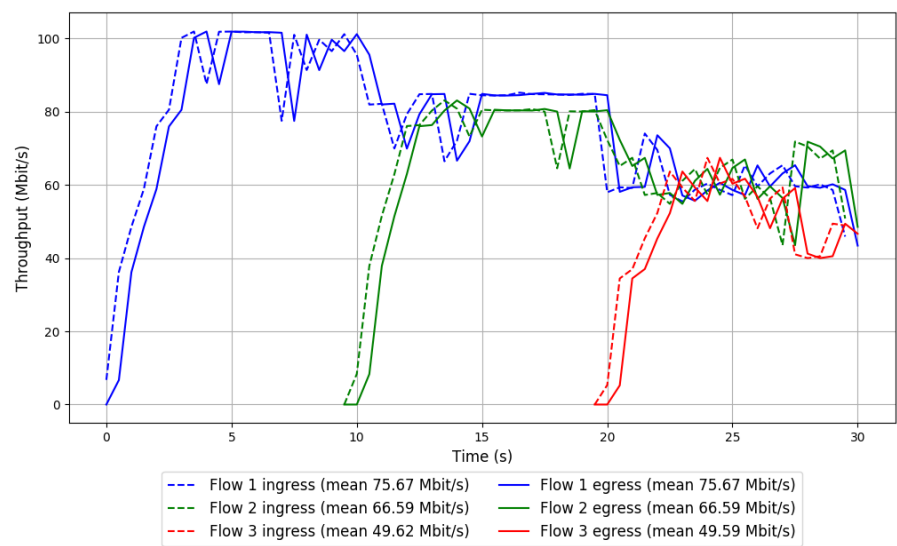


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-19 10:37:25
End at: 2018-06-19 10:37:55
Local clock offset: 3.58 ms
Remote clock offset: -3.924 ms

Below is generated by plot.py at 2018-06-19 14:55:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 136.39 Mbit/s
95th percentile per-packet one-way delay: 1.034 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 75.67 Mbit/s
95th percentile per-packet one-way delay: 1.037 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 66.59 Mbit/s
95th percentile per-packet one-way delay: 1.035 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 49.59 Mbit/s
95th percentile per-packet one-way delay: 1.010 ms
Loss rate: 0.24%

Run 4: Report of QUIC Cubic — Data Link

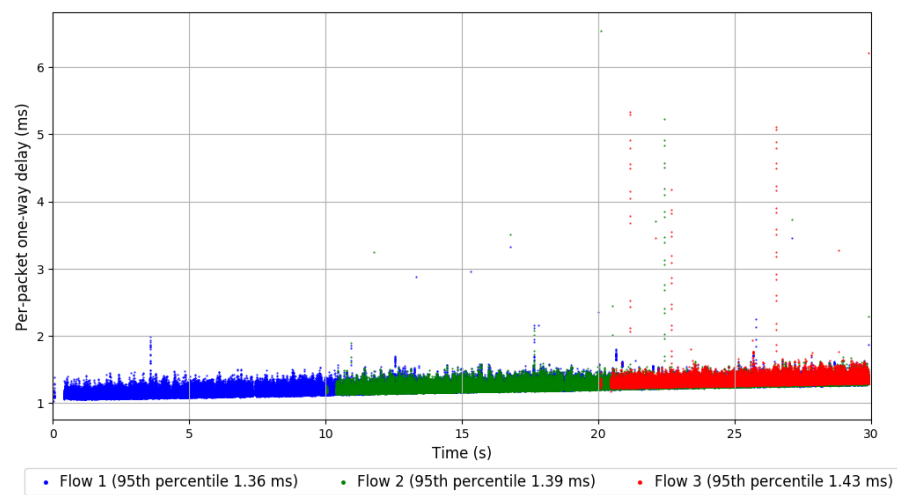
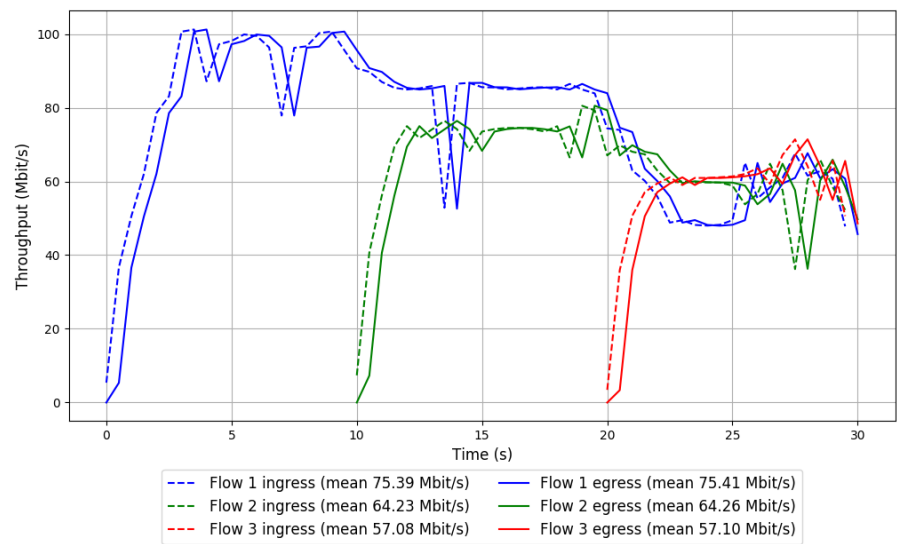


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-19 11:02:39
End at: 2018-06-19 11:03:09
Local clock offset: 3.503 ms
Remote clock offset: -0.365 ms

Below is generated by plot.py at 2018-06-19 14:55:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 136.99 Mbit/s
95th percentile per-packet one-way delay: 1.387 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 75.41 Mbit/s
95th percentile per-packet one-way delay: 1.364 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 64.26 Mbit/s
95th percentile per-packet one-way delay: 1.385 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 57.10 Mbit/s
95th percentile per-packet one-way delay: 1.434 ms
Loss rate: 0.20%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-19 11:27:56

End at: 2018-06-19 11:28:26

Local clock offset: 3.726 ms

Remote clock offset: 4.26 ms

Below is generated by plot.py at 2018-06-19 14:55:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.36 Mbit/s

95th percentile per-packet one-way delay: 1.223 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 68.85 Mbit/s

95th percentile per-packet one-way delay: 1.220 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 65.83 Mbit/s

95th percentile per-packet one-way delay: 1.222 ms

Loss rate: 0.10%

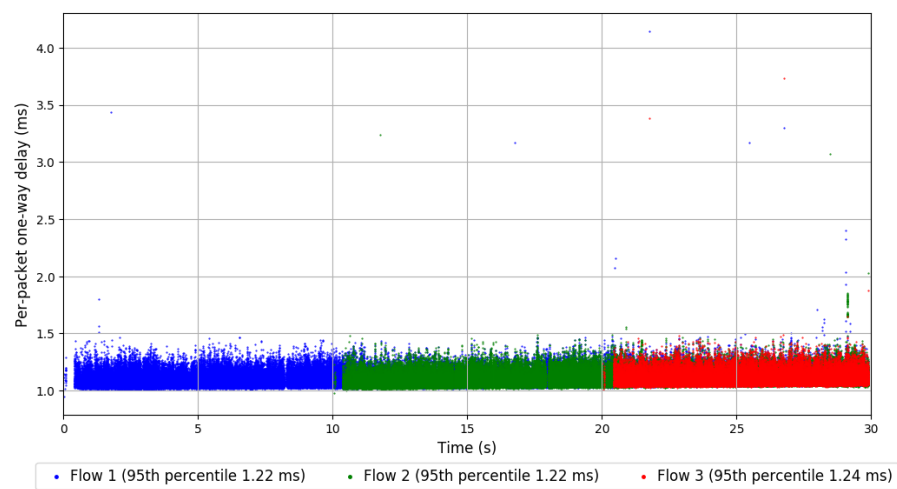
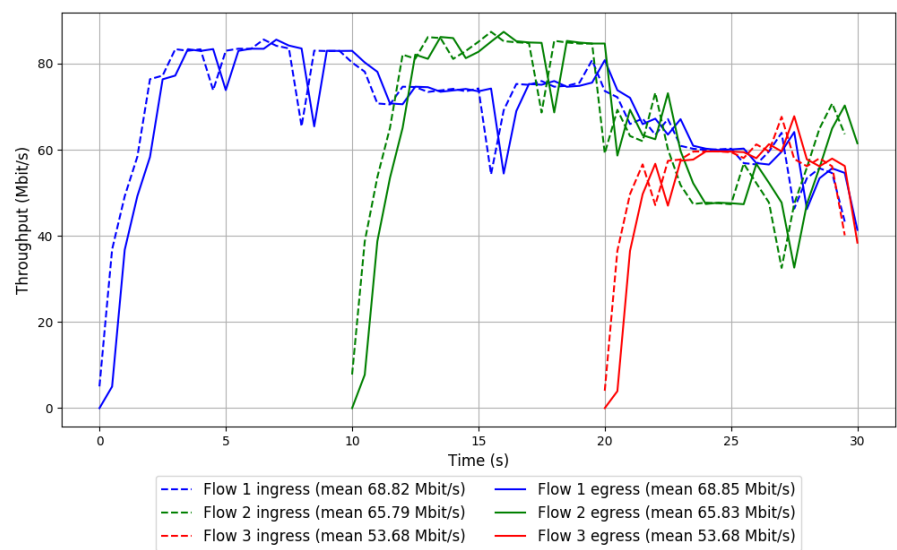
-- Flow 3:

Average throughput: 53.68 Mbit/s

95th percentile per-packet one-way delay: 1.235 ms

Loss rate: 0.17%

Run 6: Report of QUIC Cubic — Data Link

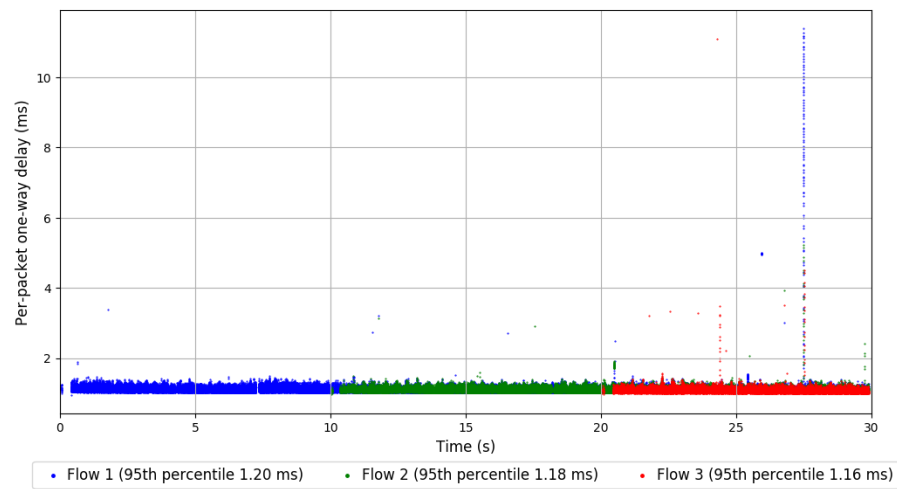
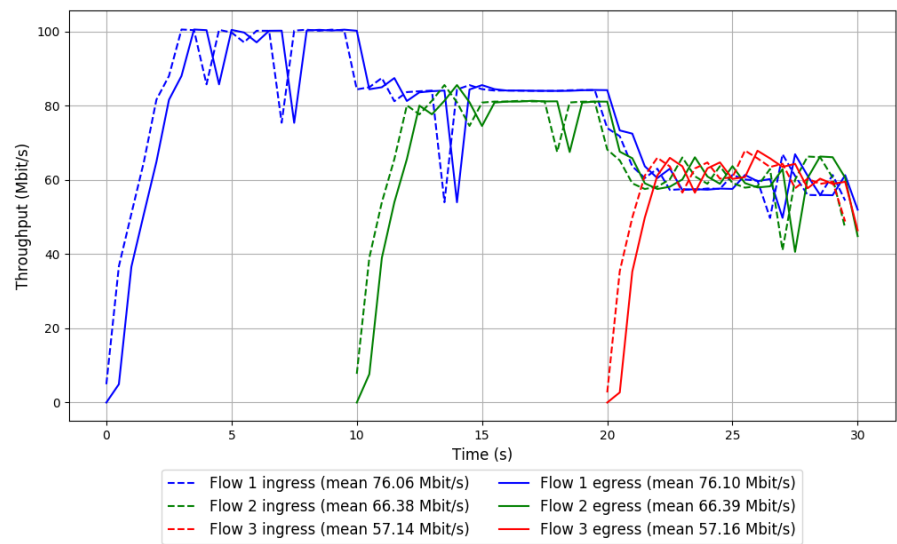


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-19 11:52:58
End at: 2018-06-19 11:53:28
Local clock offset: 3.637 ms
Remote clock offset: -0.175 ms

Below is generated by plot.py at 2018-06-19 14:55:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 139.14 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 76.10 Mbit/s
95th percentile per-packet one-way delay: 1.198 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 66.39 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 57.16 Mbit/s
95th percentile per-packet one-way delay: 1.161 ms
Loss rate: 0.22%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-19 12:18:14

End at: 2018-06-19 12:18:44

Local clock offset: 3.624 ms

Remote clock offset: 3.023 ms

Below is generated by plot.py at 2018-06-19 14:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.65 Mbit/s

95th percentile per-packet one-way delay: 1.228 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 74.31 Mbit/s

95th percentile per-packet one-way delay: 1.237 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 64.09 Mbit/s

95th percentile per-packet one-way delay: 1.208 ms

Loss rate: 0.12%

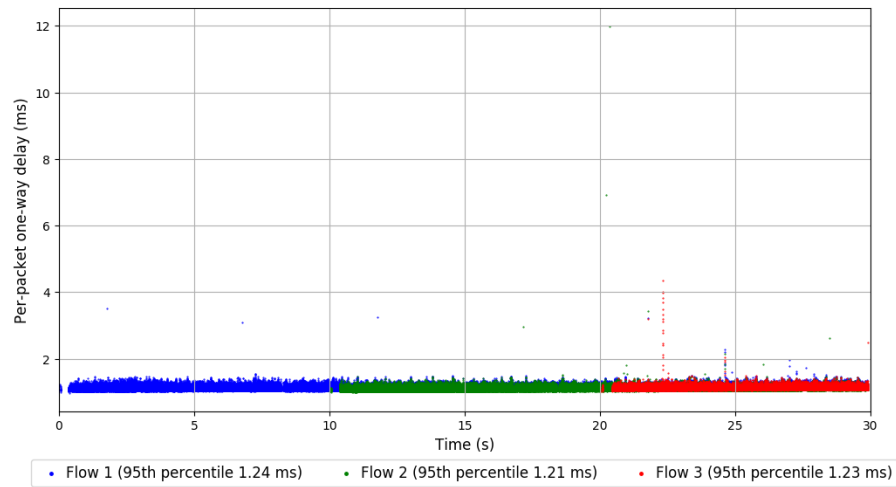
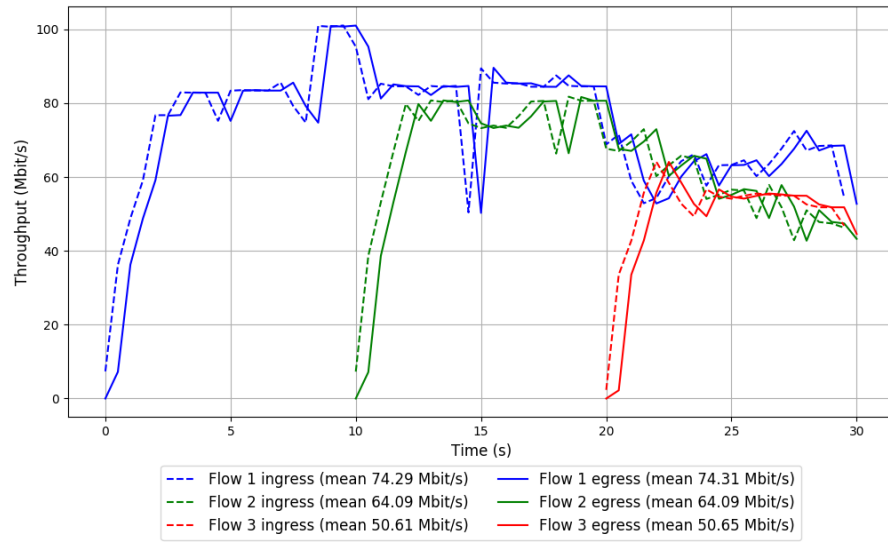
-- Flow 3:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 1.229 ms

Loss rate: 0.24%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-19 12:43:38

End at: 2018-06-19 12:44:08

Local clock offset: 3.837 ms

Remote clock offset: 1.961 ms

Below is generated by plot.py at 2018-06-19 14:55:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.17 Mbit/s

95th percentile per-packet one-way delay: 1.015 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 75.83 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 65.55 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.09%

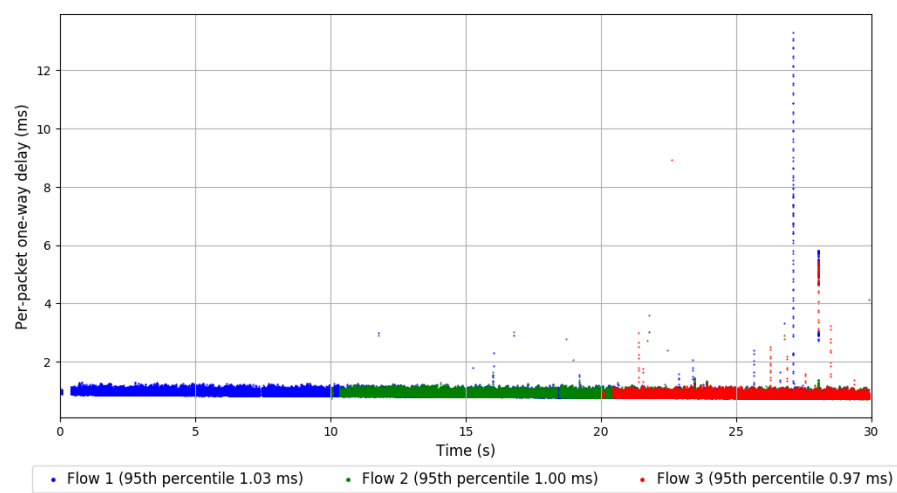
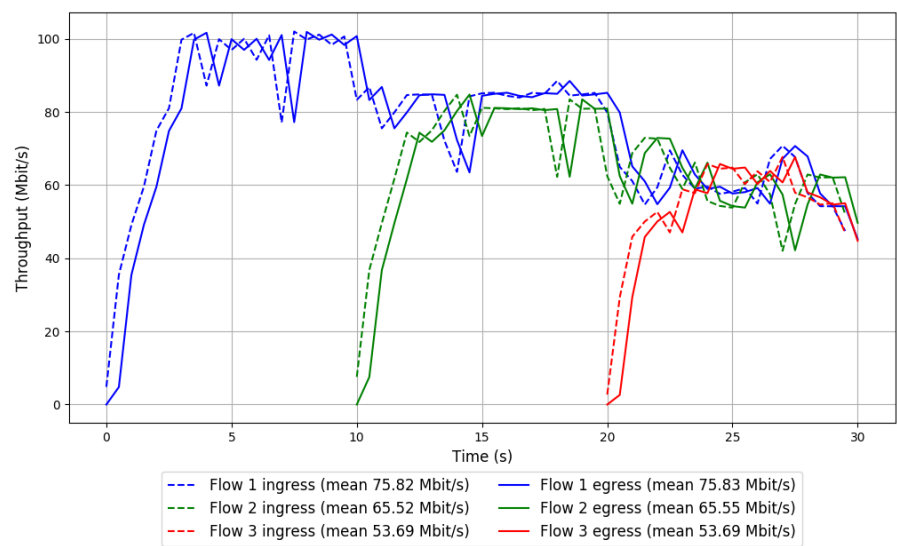
-- Flow 3:

Average throughput: 53.69 Mbit/s

95th percentile per-packet one-way delay: 0.970 ms

Loss rate: 0.21%

Run 9: Report of QUIC Cubic — Data Link

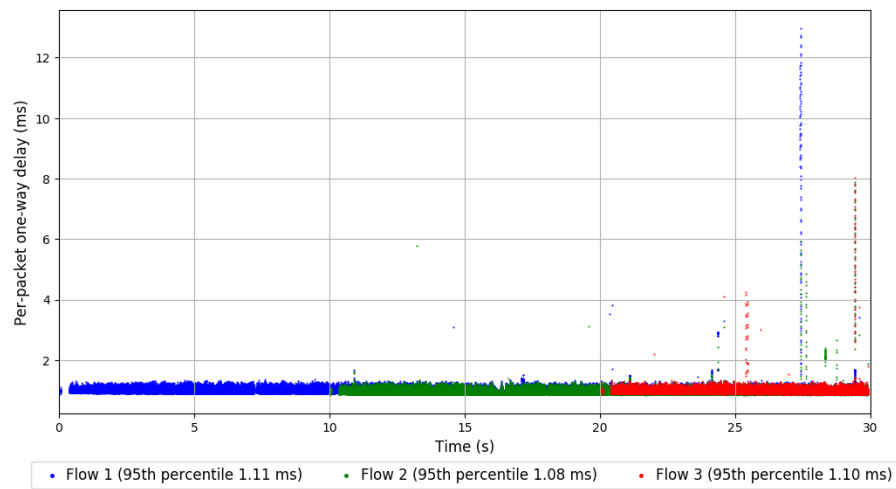
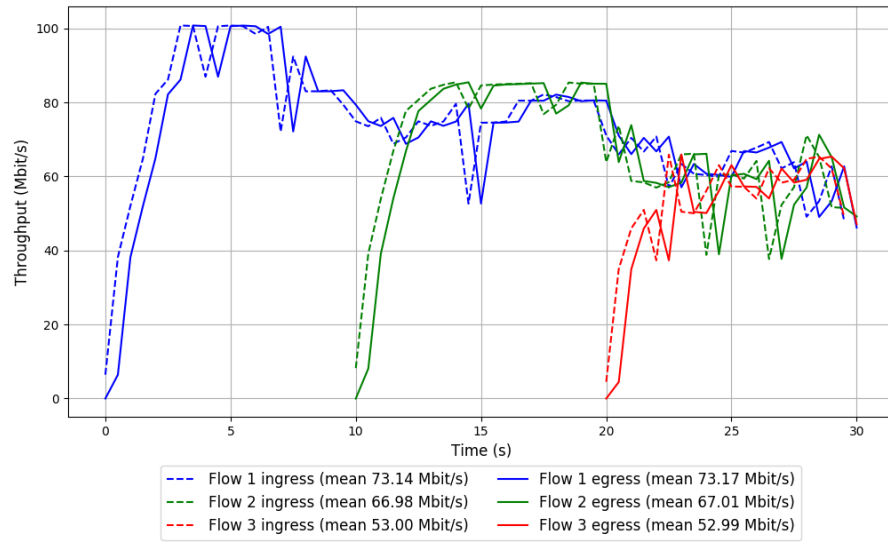


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-19 13:08:46
End at: 2018-06-19 13:09:16
Local clock offset: 4.126 ms
Remote clock offset: -1.085 ms

Below is generated by plot.py at 2018-06-19 14:55:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 135.25 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 73.17 Mbit/s
95th percentile per-packet one-way delay: 1.115 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 67.01 Mbit/s
95th percentile per-packet one-way delay: 1.078 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 52.99 Mbit/s
95th percentile per-packet one-way delay: 1.100 ms
Loss rate: 0.20%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SReAM

Start at: 2018-06-19 09:25:14

End at: 2018-06-19 09:25:44

Local clock offset: 3.463 ms

Remote clock offset: 2.094 ms

Below is generated by plot.py at 2018-06-19 14:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.334 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.312 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.345 ms

Loss rate: 0.19%

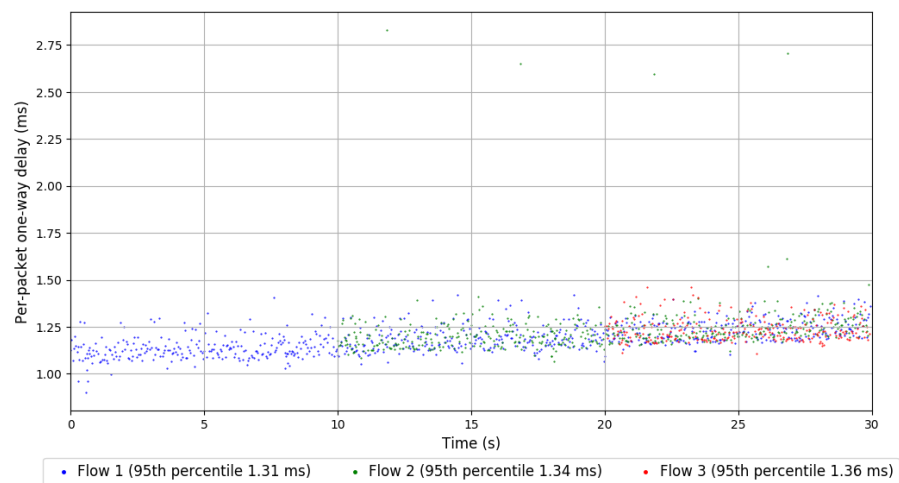
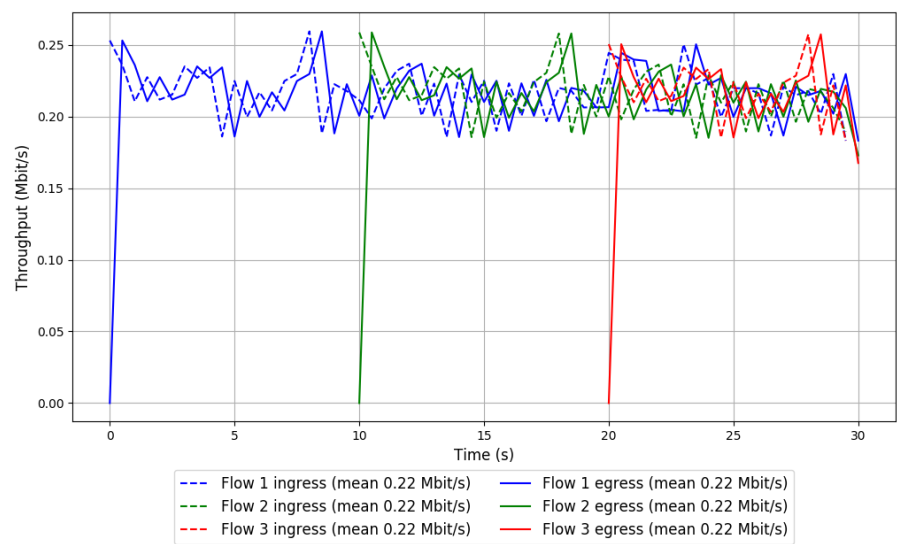
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.359 ms

Loss rate: 0.36%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-06-19 09:50:23

End at: 2018-06-19 09:50:53

Local clock offset: 3.618 ms

Remote clock offset: 3.441 ms

Below is generated by plot.py at 2018-06-19 14:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.017 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.016 ms

Loss rate: 0.19%

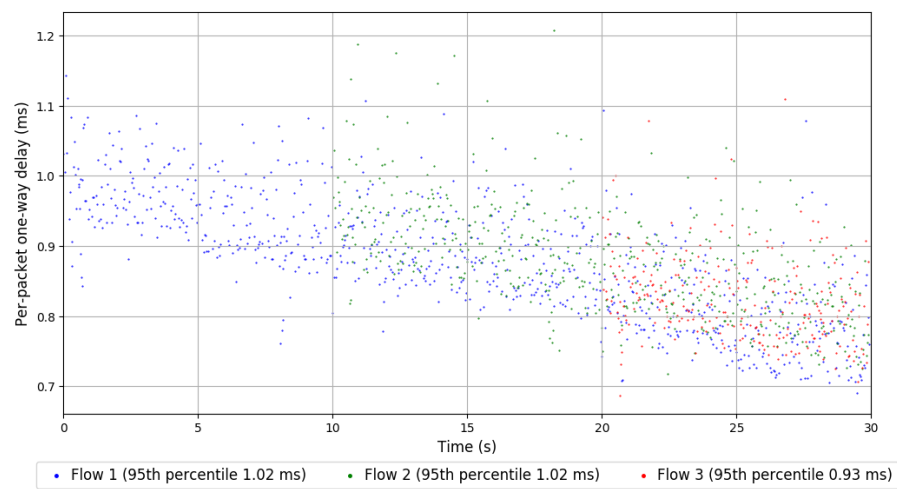
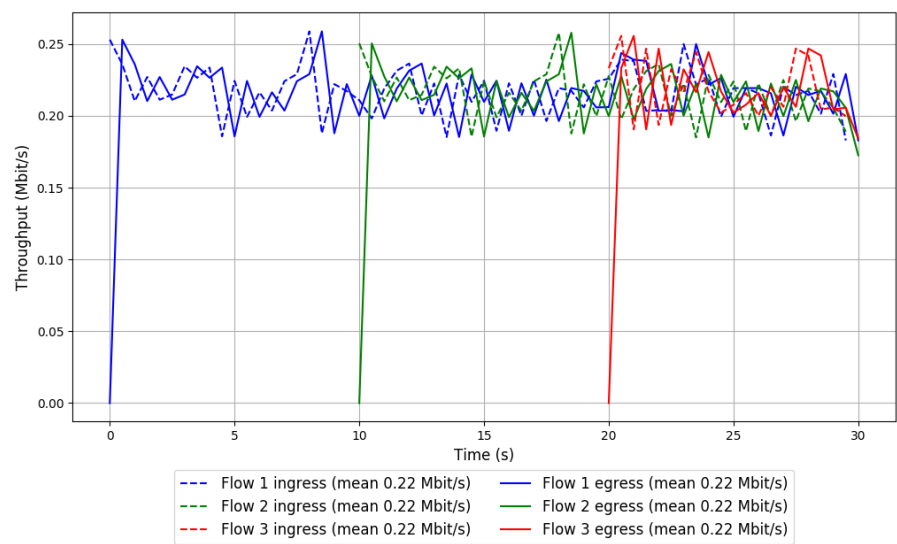
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.930 ms

Loss rate: 0.35%

Run 2: Report of SReAM — Data Link

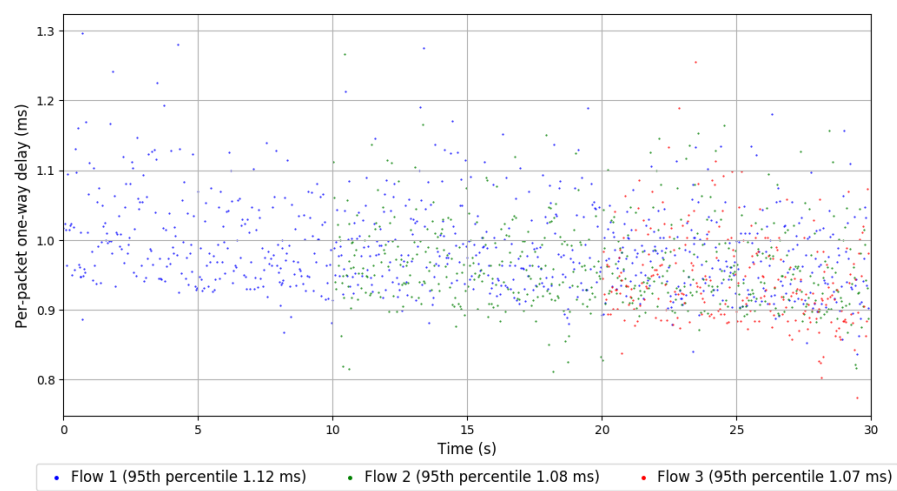
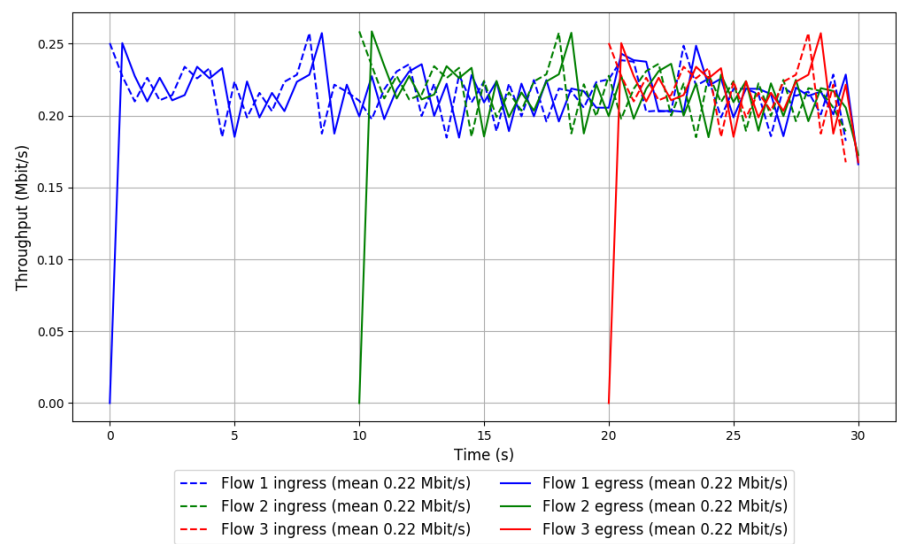


Run 3: Statistics of SReAM

Start at: 2018-06-19 10:15:26
End at: 2018-06-19 10:15:56
Local clock offset: 3.571 ms
Remote clock offset: -1.039 ms

Below is generated by plot.py at 2018-06-19 14:55:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.119 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.070 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

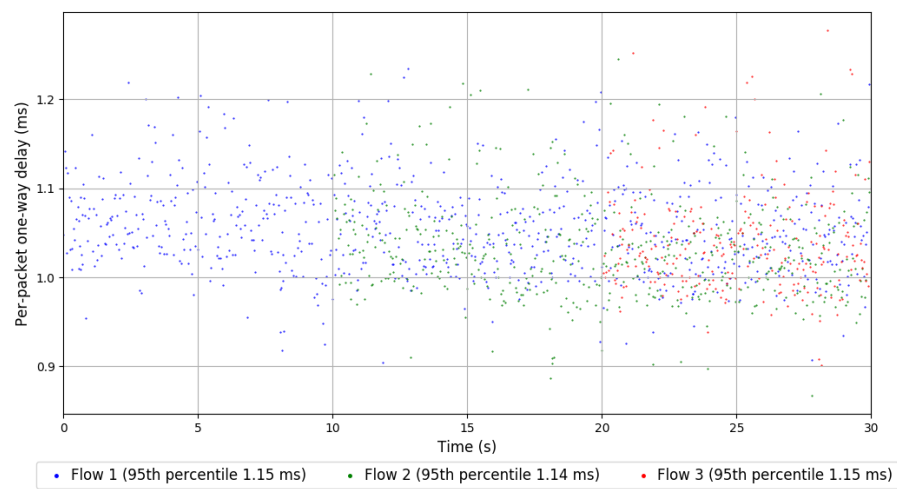
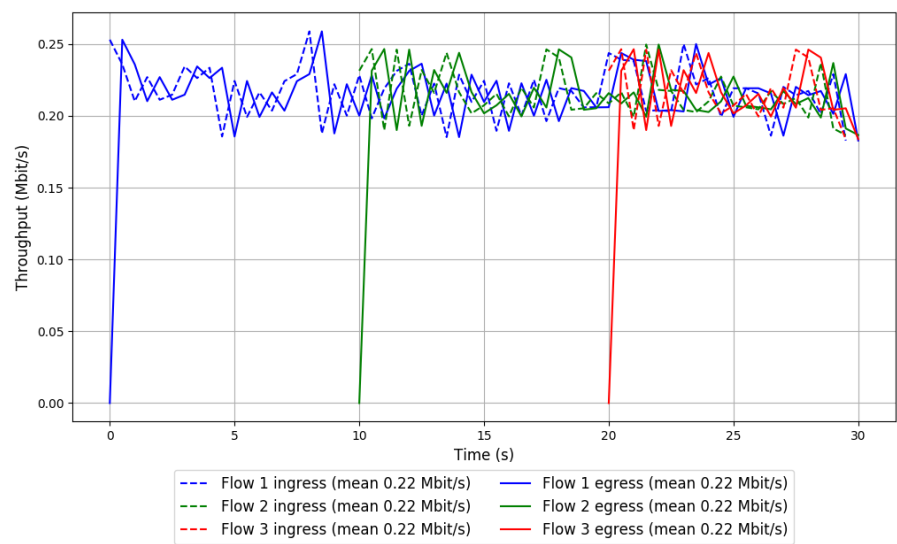


Run 4: Statistics of SReAM

Start at: 2018-06-19 10:40:27
End at: 2018-06-19 10:40:57
Local clock offset: 3.542 ms
Remote clock offset: -4.228 ms

Below is generated by plot.py at 2018-06-19 14:55:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.148 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.144 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.145 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-06-19 11:05:41

End at: 2018-06-19 11:06:11

Local clock offset: 3.592 ms

Remote clock offset: 0.919 ms

Below is generated by plot.py at 2018-06-19 14:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.355 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.352 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.351 ms

Loss rate: 0.19%

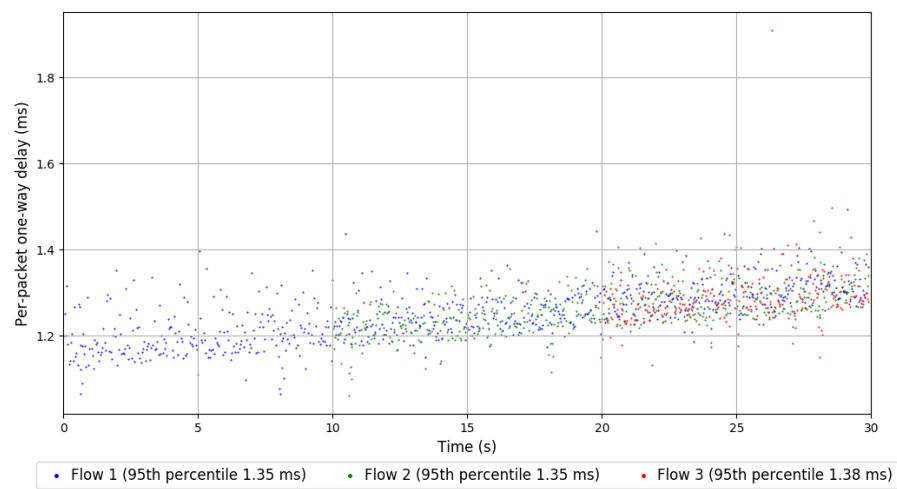
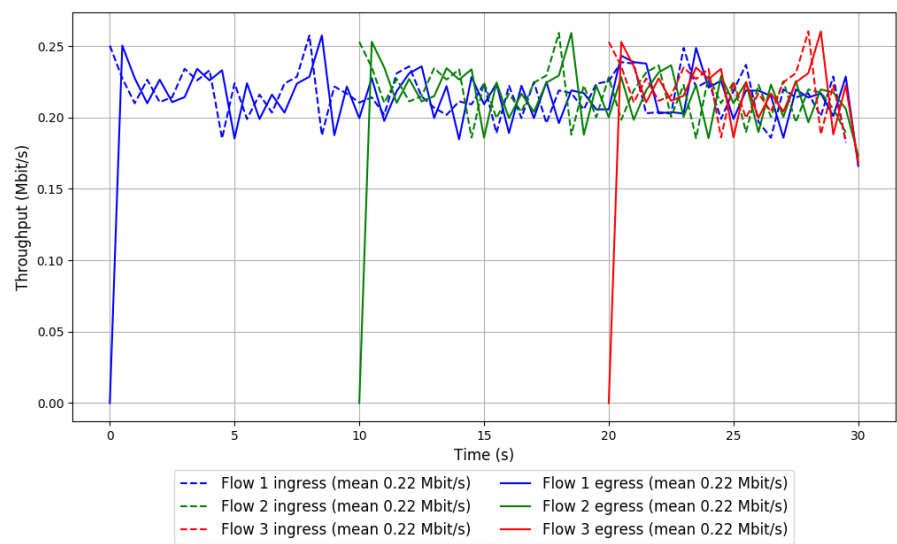
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.379 ms

Loss rate: 0.35%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-06-19 11:30:58

End at: 2018-06-19 11:31:28

Local clock offset: 3.652 ms

Remote clock offset: 3.687 ms

Below is generated by plot.py at 2018-06-19 14:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 0.926 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.946 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.900 ms

Loss rate: 0.19%

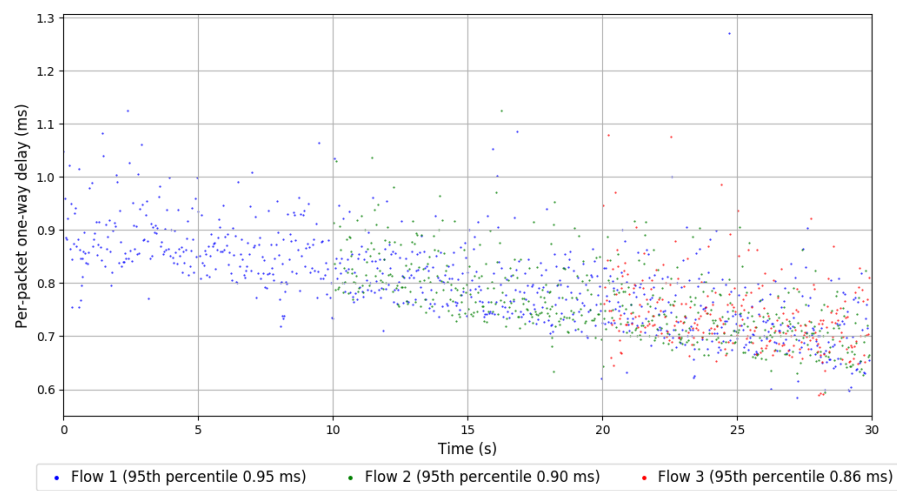
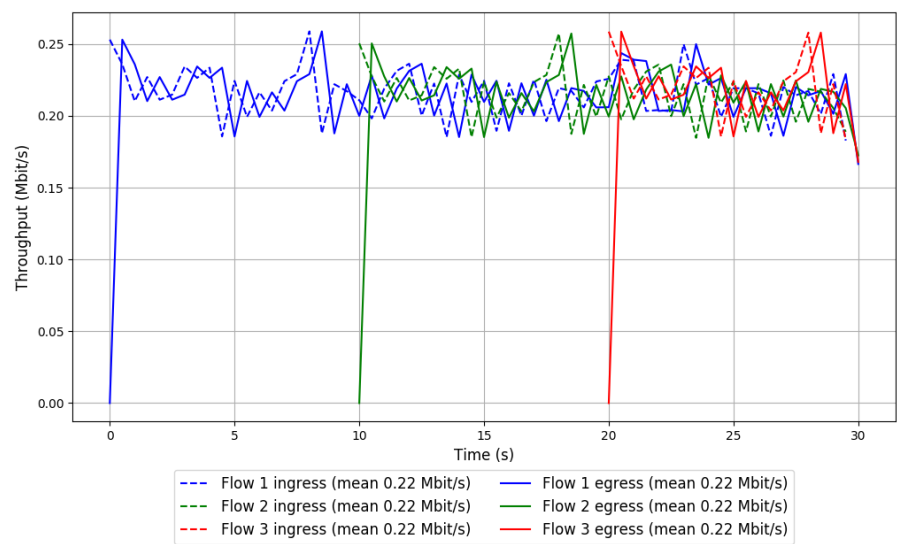
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.862 ms

Loss rate: 0.35%

Run 6: Report of SReAM — Data Link

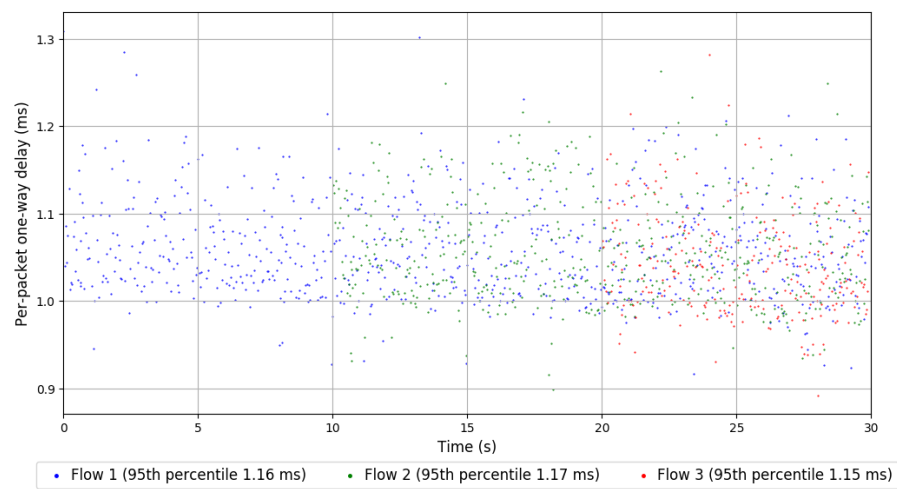
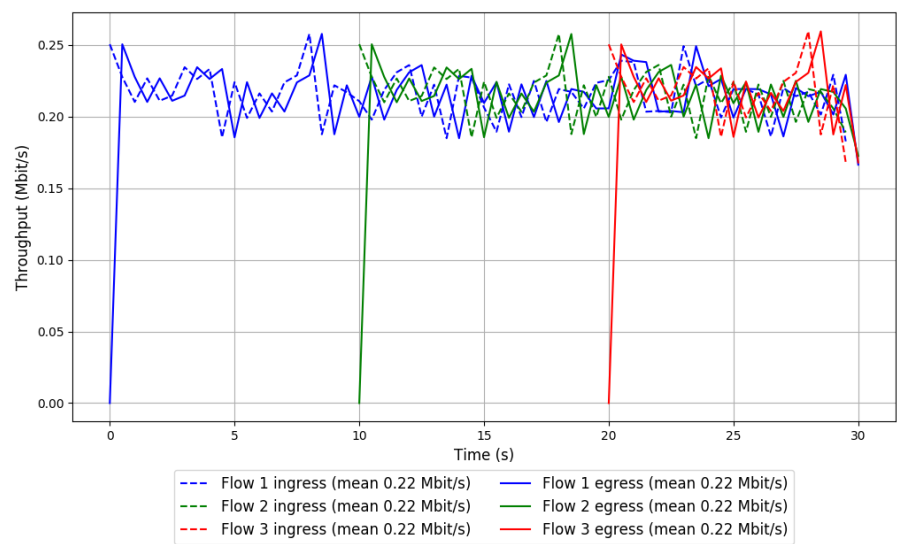


Run 7: Statistics of SReAM

Start at: 2018-06-19 11:56:00
End at: 2018-06-19 11:56:30
Local clock offset: 3.539 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2018-06-19 14:55:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.161 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.160 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.147 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-06-19 12:21:18

End at: 2018-06-19 12:21:48

Local clock offset: 3.542 ms

Remote clock offset: 3.333 ms

Below is generated by plot.py at 2018-06-19 14:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.255 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.239 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.274 ms

Loss rate: 0.19%

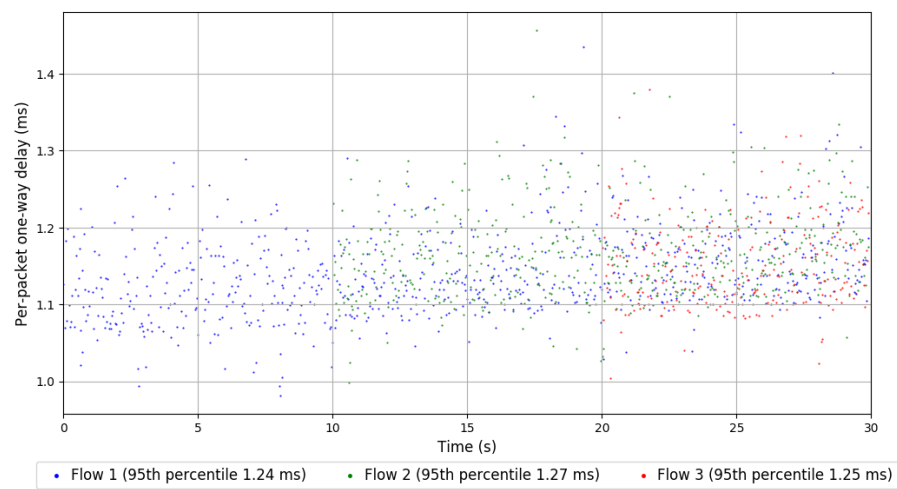
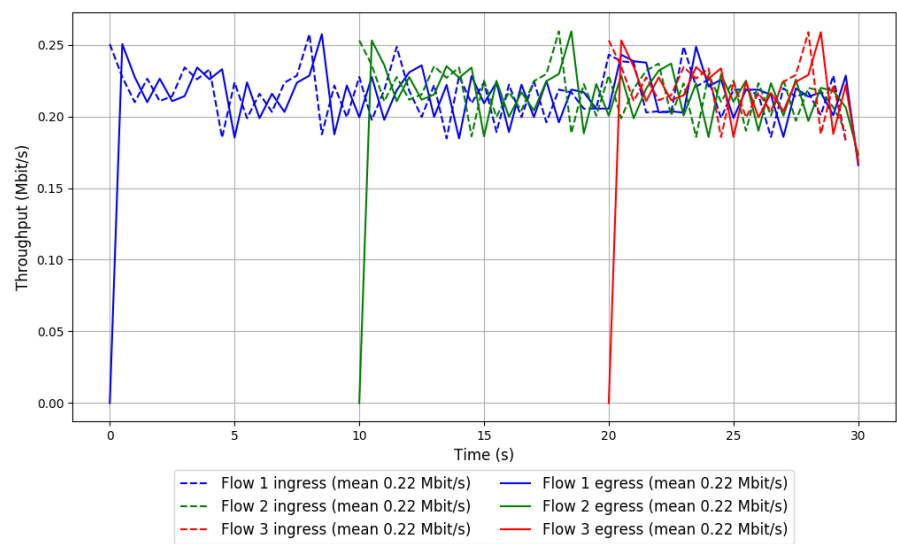
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.253 ms

Loss rate: 0.35%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-06-19 12:46:41

End at: 2018-06-19 12:47:11

Local clock offset: 3.872 ms

Remote clock offset: 1.094 ms

Below is generated by plot.py at 2018-06-19 14:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.188 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.193 ms

Loss rate: 0.19%

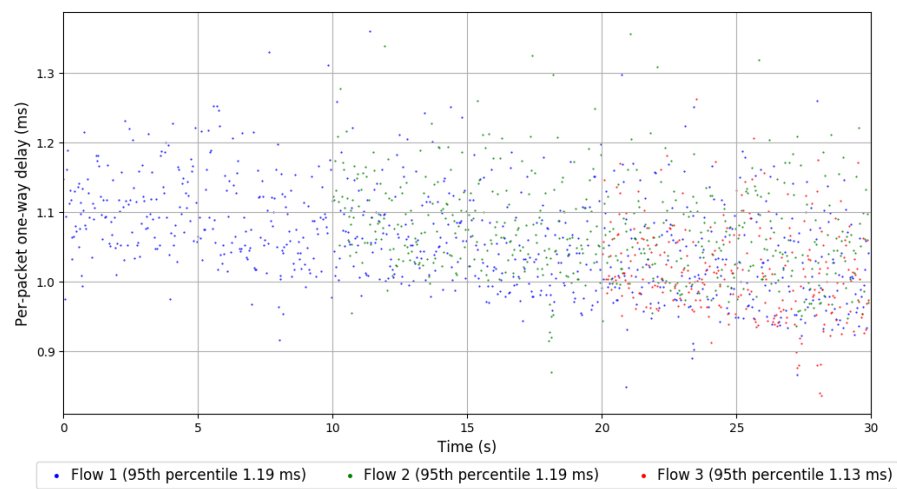
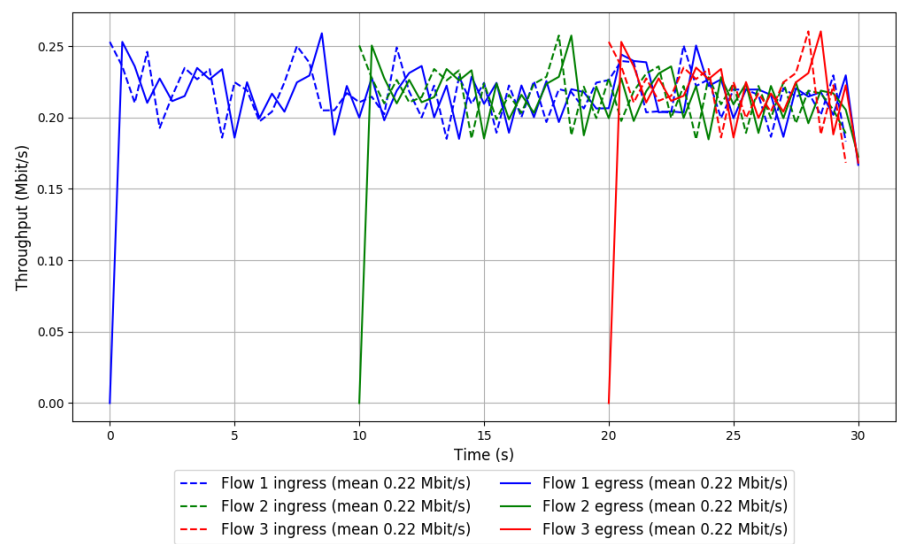
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

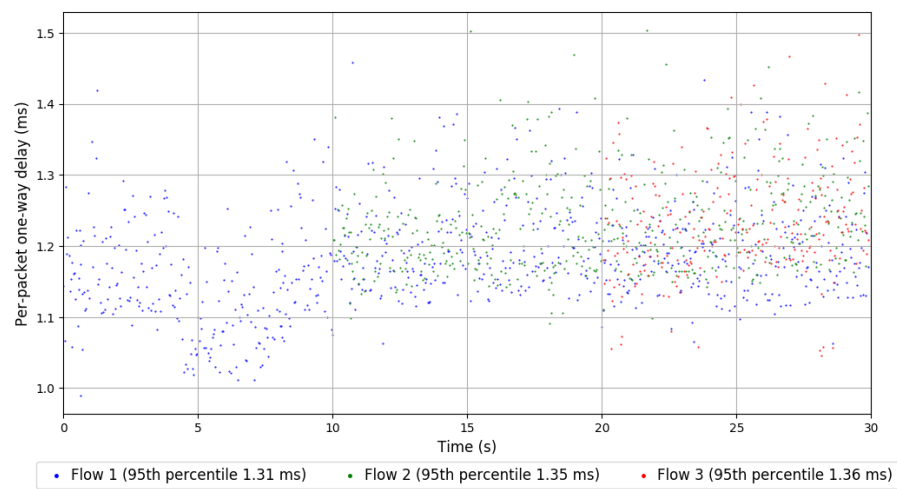
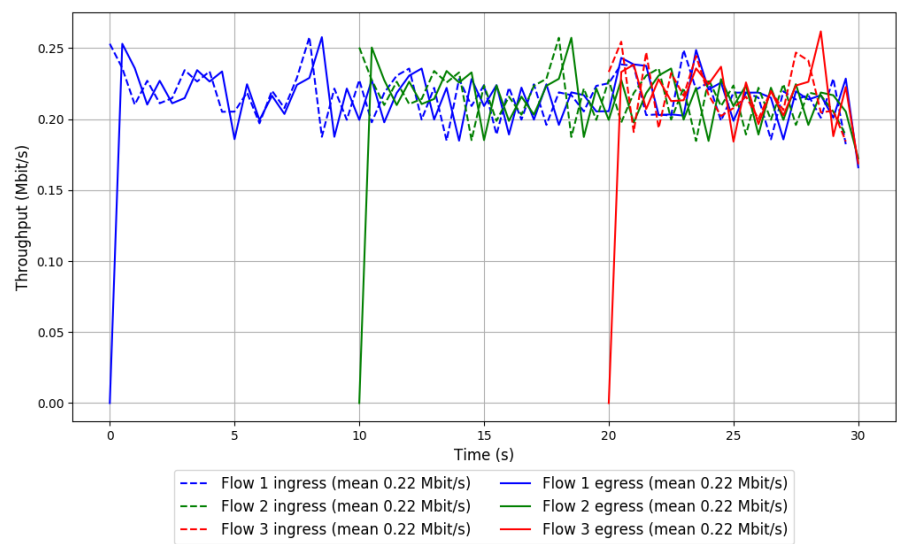


Run 10: Statistics of SReAM

Start at: 2018-06-19 13:11:49
End at: 2018-06-19 13:12:19
Local clock offset: 4.317 ms
Remote clock offset: -1.176 ms

Below is generated by plot.py at 2018-06-19 14:55:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.344 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.309 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.353 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.365 ms
Loss rate: 0.35%

Run 10: Report of SReAM — Data Link

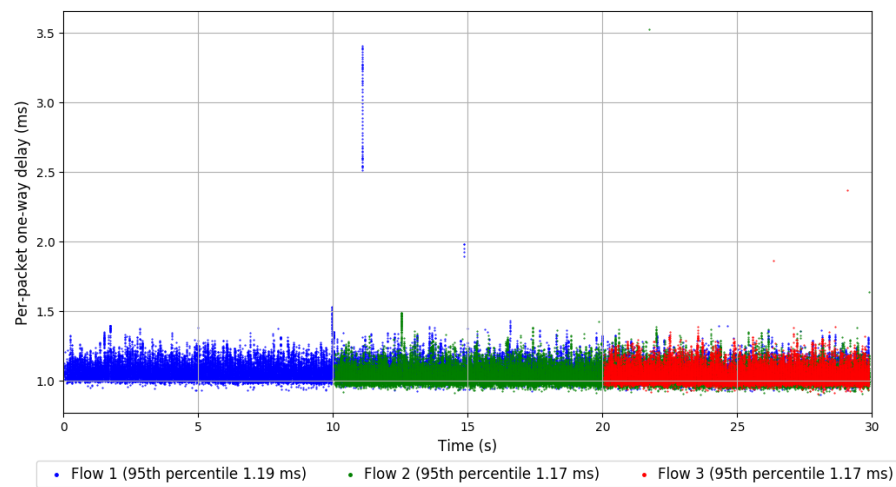
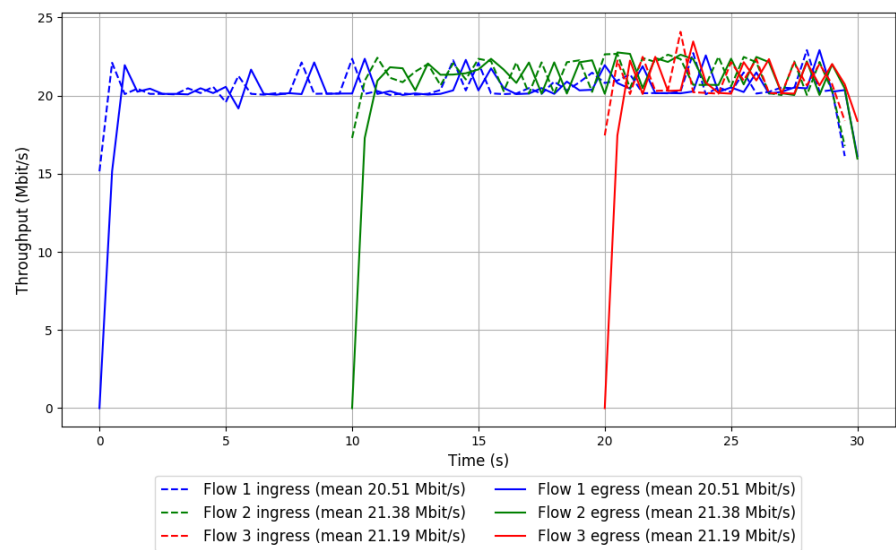


Run 1: Statistics of Sprout

Start at: 2018-06-19 09:11:03
End at: 2018-06-19 09:11:33
Local clock offset: 3.573 ms
Remote clock offset: -4.412 ms

Below is generated by plot.py at 2018-06-19 14:55:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.69 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 20.51 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.38 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 21.19 Mbit/s
95th percentile per-packet one-way delay: 1.171 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-19 09:36:16

End at: 2018-06-19 09:36:46

Local clock offset: 3.484 ms

Remote clock offset: 4.199 ms

Below is generated by plot.py at 2018-06-19 14:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.94 Mbit/s

95th percentile per-packet one-way delay: 1.167 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 21.25 Mbit/s

95th percentile per-packet one-way delay: 1.161 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 1.167 ms

Loss rate: 0.13%

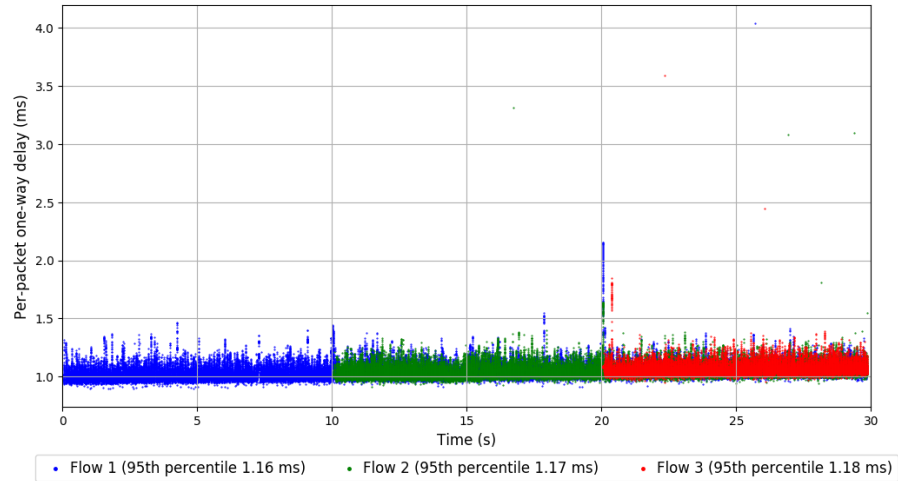
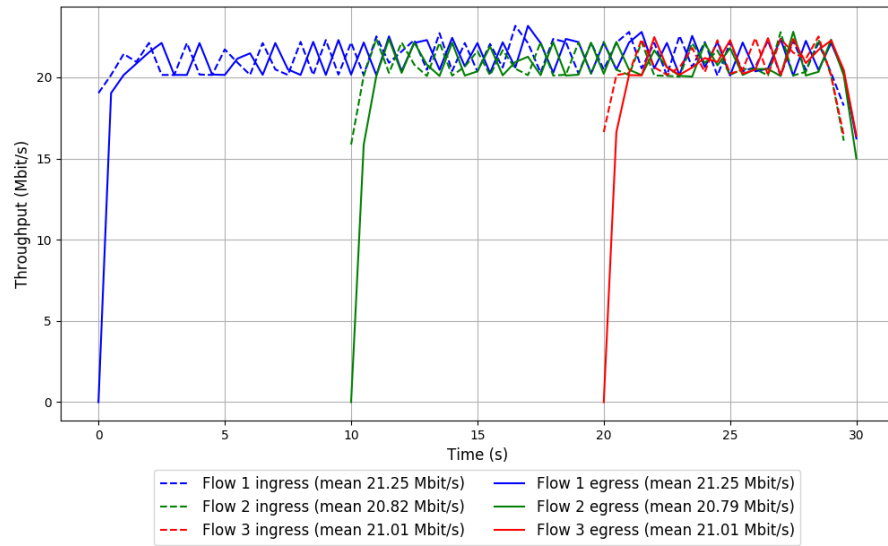
-- Flow 3:

Average throughput: 21.01 Mbit/s

95th percentile per-packet one-way delay: 1.181 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-06-19 10:01:18

End at: 2018-06-19 10:01:48

Local clock offset: 3.651 ms

Remote clock offset: 0.307 ms

Below is generated by plot.py at 2018-06-19 14:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.53 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 20.81 Mbit/s

95th percentile per-packet one-way delay: 1.065 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.83 Mbit/s

95th percentile per-packet one-way delay: 1.049 ms

Loss rate: 0.00%

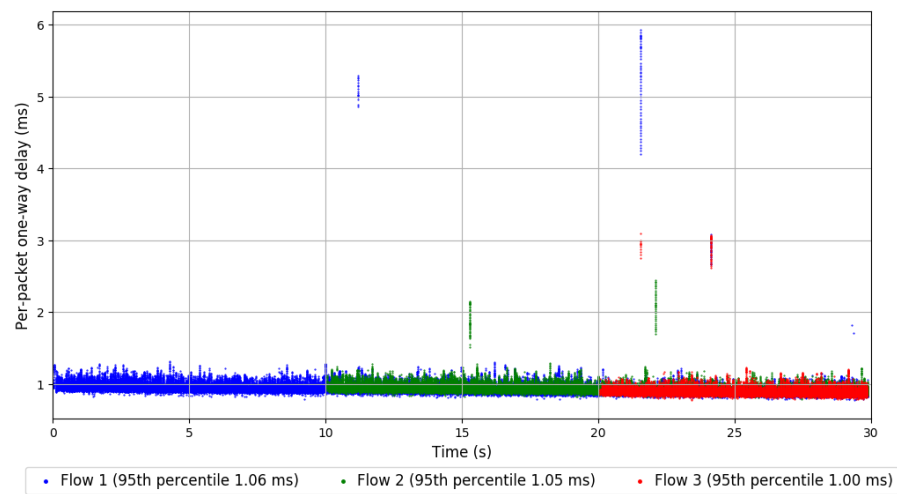
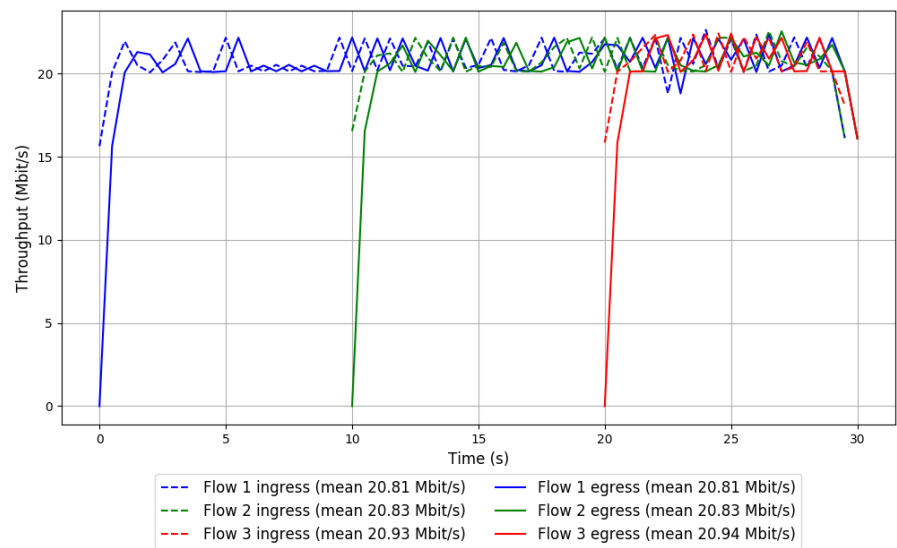
-- Flow 3:

Average throughput: 20.94 Mbit/s

95th percentile per-packet one-way delay: 1.005 ms

Loss rate: 0.49%

Run 3: Report of Sprout — Data Link

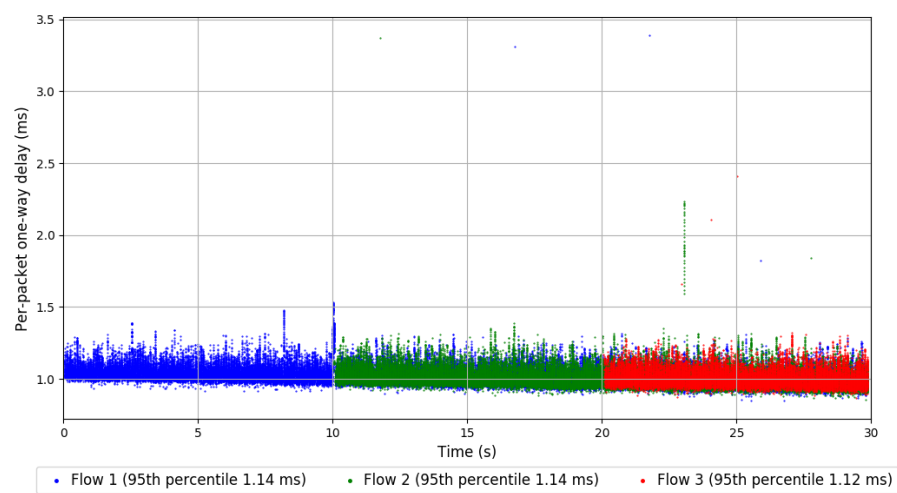
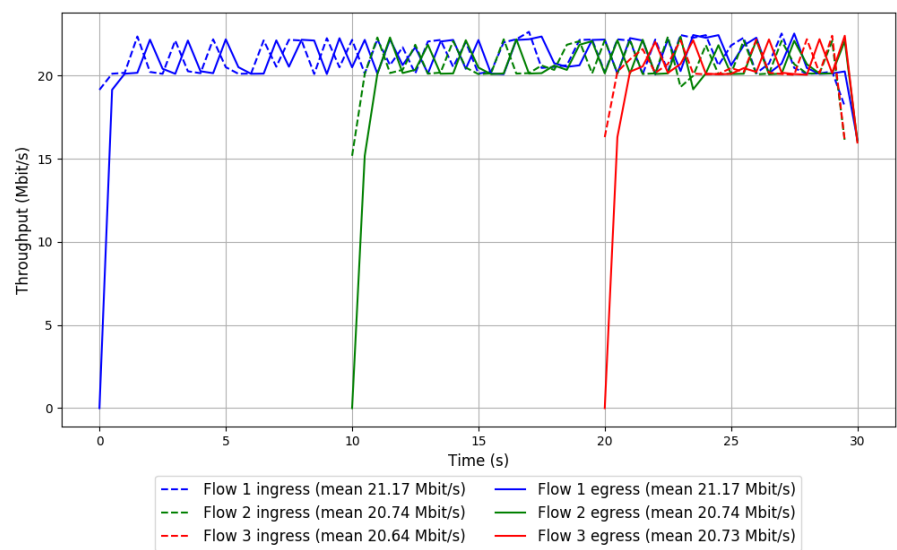


Run 4: Statistics of Sprout

Start at: 2018-06-19 10:26:17
End at: 2018-06-19 10:26:47
Local clock offset: 3.689 ms
Remote clock offset: -2.543 ms

```
# Below is generated by plot.py at 2018-06-19 14:55:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.74 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 21.17 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 20.74 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.73 Mbit/s
95th percentile per-packet one-way delay: 1.123 ms
Loss rate: 0.02%
```

Run 4: Report of Sprout — Data Link

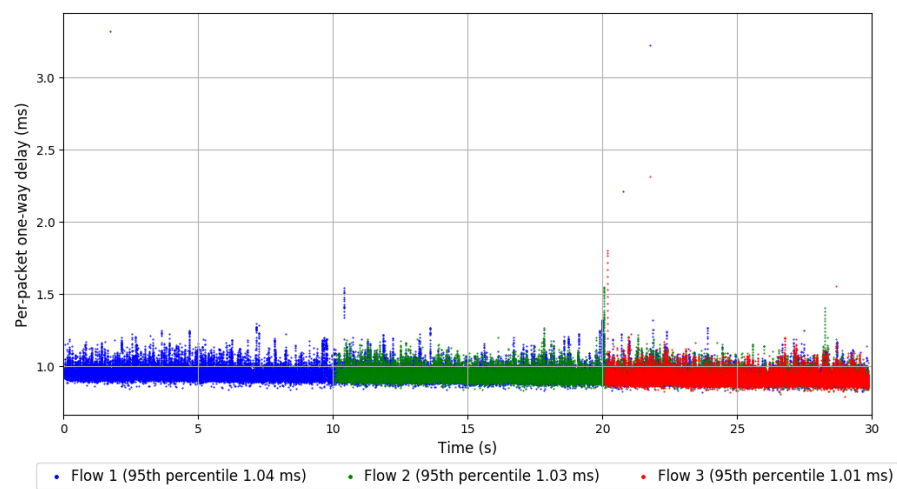
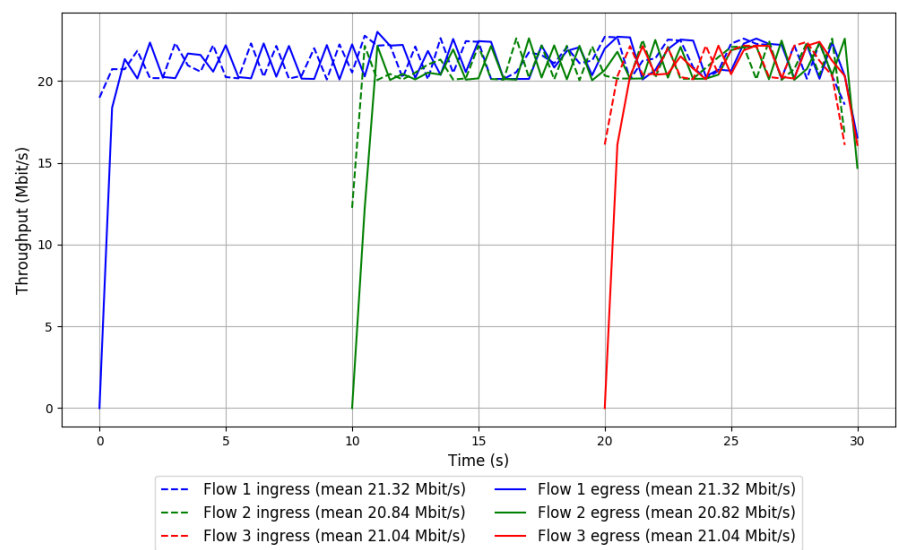


Run 5: Statistics of Sprout

Start at: 2018-06-19 10:51:29
End at: 2018-06-19 10:51:59
Local clock offset: 3.484 ms
Remote clock offset: -5.084 ms

Below is generated by plot.py at 2018-06-19 14:55:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.01 Mbit/s
95th percentile per-packet one-way delay: 1.034 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 21.32 Mbit/s
95th percentile per-packet one-way delay: 1.045 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 20.82 Mbit/s
95th percentile per-packet one-way delay: 1.026 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 21.04 Mbit/s
95th percentile per-packet one-way delay: 1.009 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

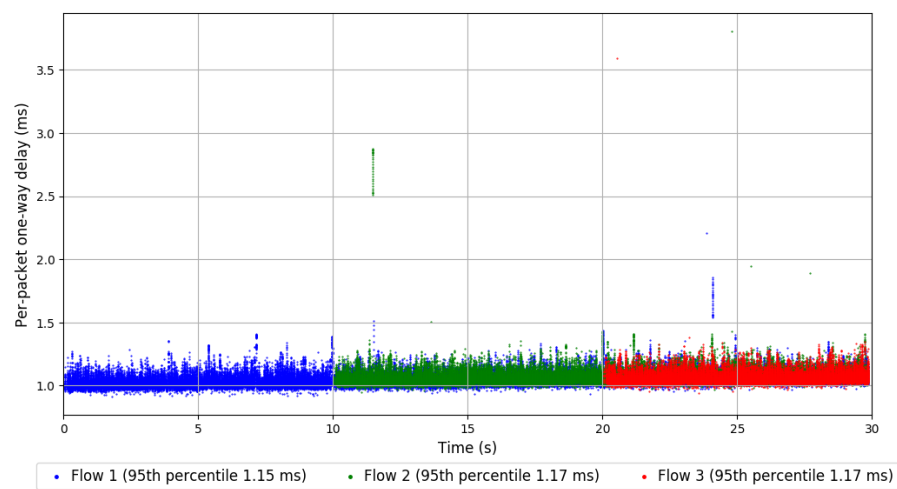
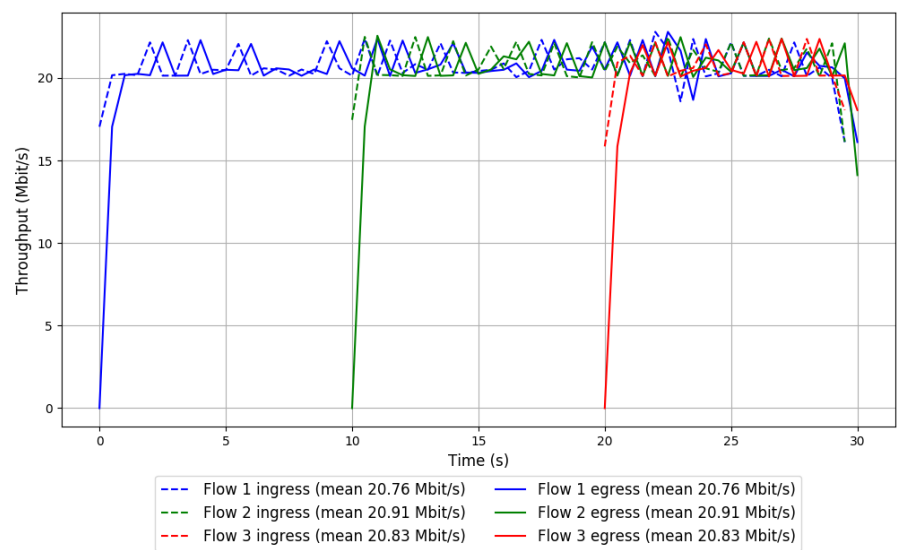


Run 6: Statistics of Sprout

Start at: 2018-06-19 11:16:46
End at: 2018-06-19 11:17:16
Local clock offset: 3.589 ms
Remote clock offset: 3.197 ms

```
# Below is generated by plot.py at 2018-06-19 14:55:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.48 Mbit/s
95th percentile per-packet one-way delay: 1.159 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 20.76 Mbit/s
95th percentile per-packet one-way delay: 1.148 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.91 Mbit/s
95th percentile per-packet one-way delay: 1.168 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 20.83 Mbit/s
95th percentile per-packet one-way delay: 1.169 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

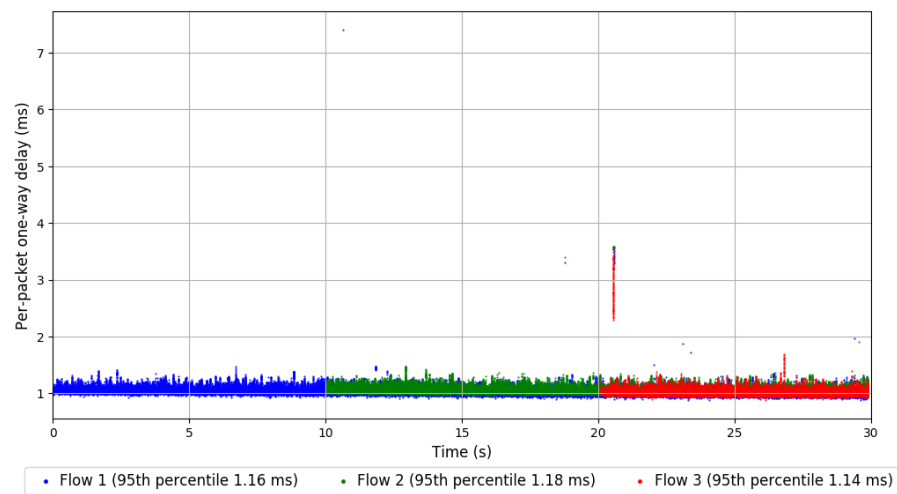
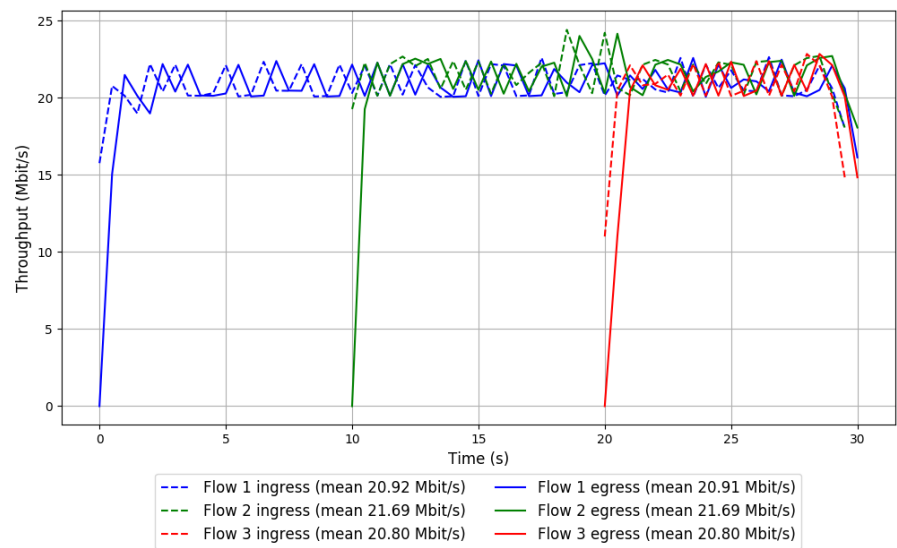


Run 7: Statistics of Sprout

Start at: 2018-06-19 11:41:51
End at: 2018-06-19 11:42:21
Local clock offset: 3.647 ms
Remote clock offset: 0.733 ms

```
# Below is generated by plot.py at 2018-06-19 14:55:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.14 Mbit/s
95th percentile per-packet one-way delay: 1.165 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 20.91 Mbit/s
95th percentile per-packet one-way delay: 1.158 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 21.69 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.80 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-06-19 12:07:03

End at: 2018-06-19 12:07:33

Local clock offset: 3.515 ms

Remote clock offset: 0.839 ms

Below is generated by plot.py at 2018-06-19 14:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.13 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 20.68 Mbit/s

95th percentile per-packet one-way delay: 1.163 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 20.66 Mbit/s

95th percentile per-packet one-way delay: 1.205 ms

Loss rate: 0.25%

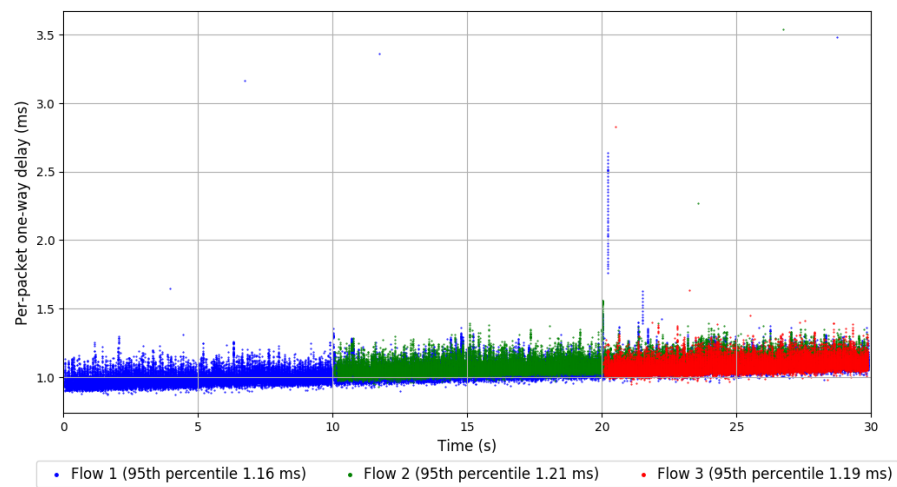
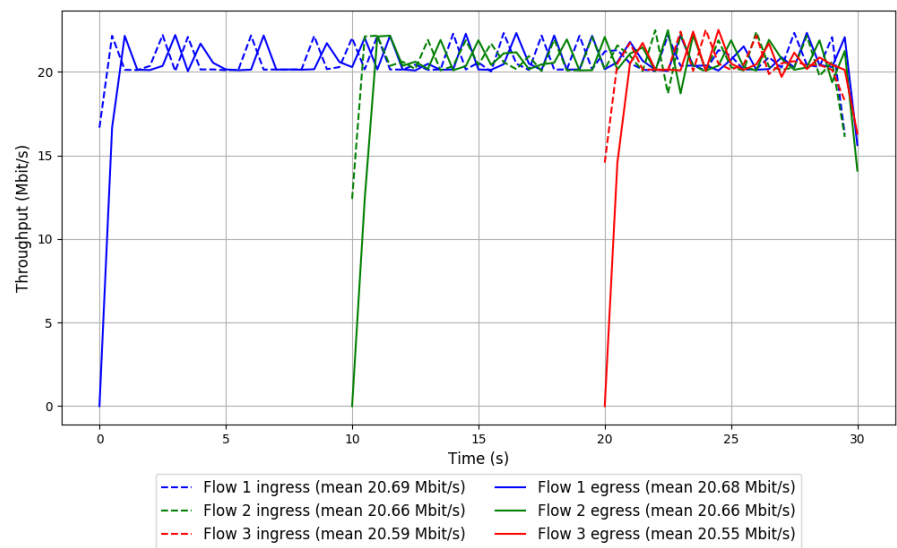
-- Flow 3:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 1.188 ms

Loss rate: 0.49%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-06-19 12:32:23

End at: 2018-06-19 12:32:53

Local clock offset: 3.554 ms

Remote clock offset: 4.229 ms

Below is generated by plot.py at 2018-06-19 14:56:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.78 Mbit/s

95th percentile per-packet one-way delay: 1.168 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 20.73 Mbit/s

95th percentile per-packet one-way delay: 1.154 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.56 Mbit/s

95th percentile per-packet one-way delay: 1.179 ms

Loss rate: 0.01%

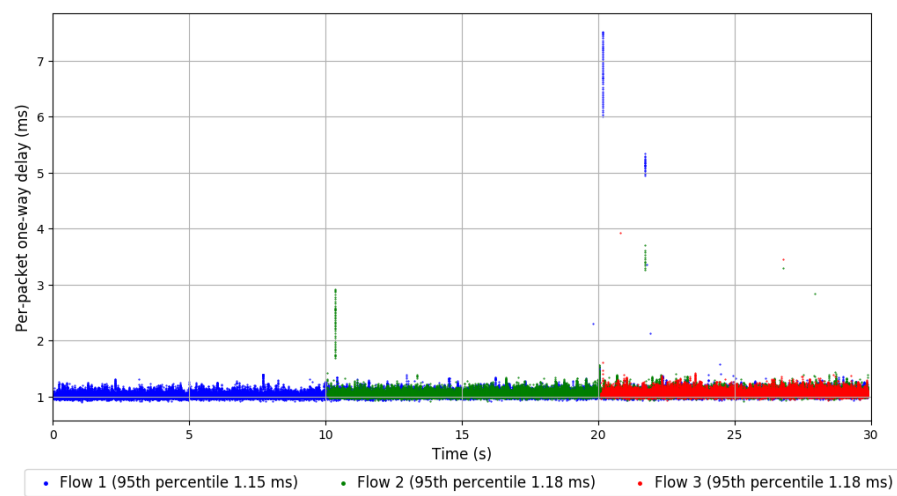
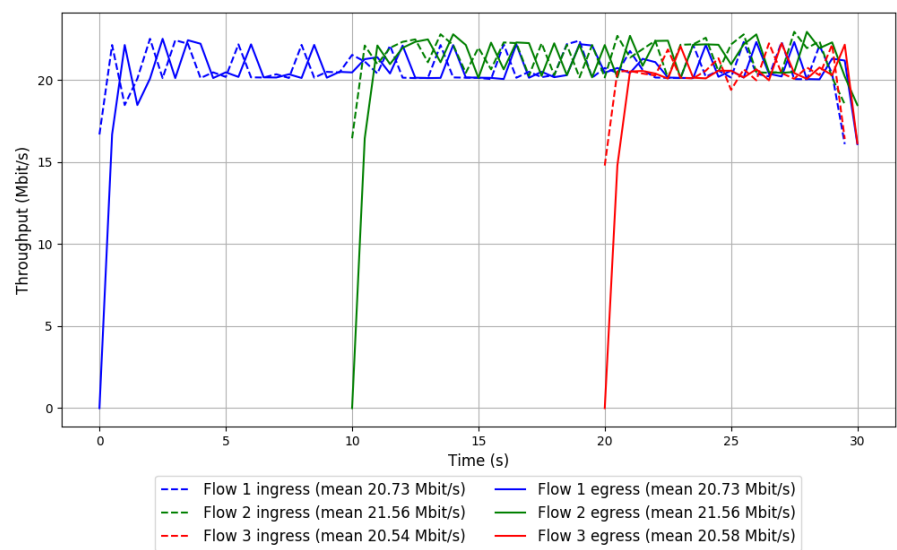
-- Flow 3:

Average throughput: 20.58 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.07%

Run 9: Report of Sprout — Data Link

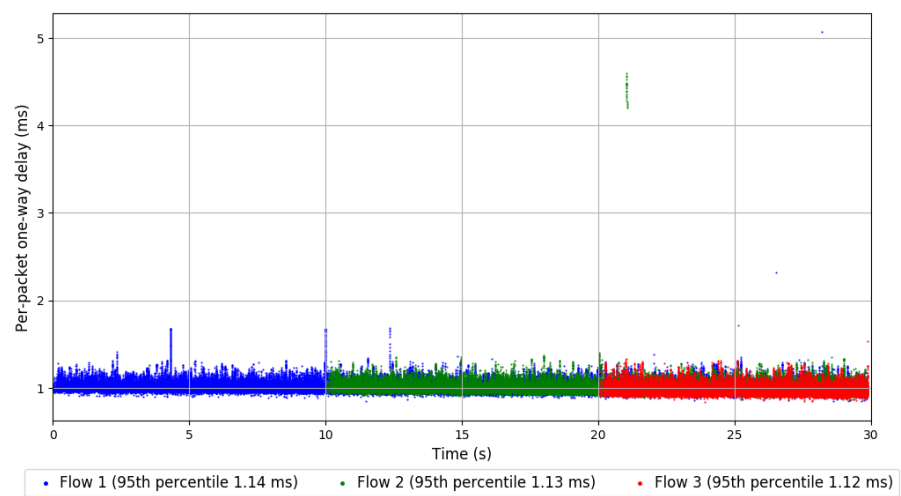
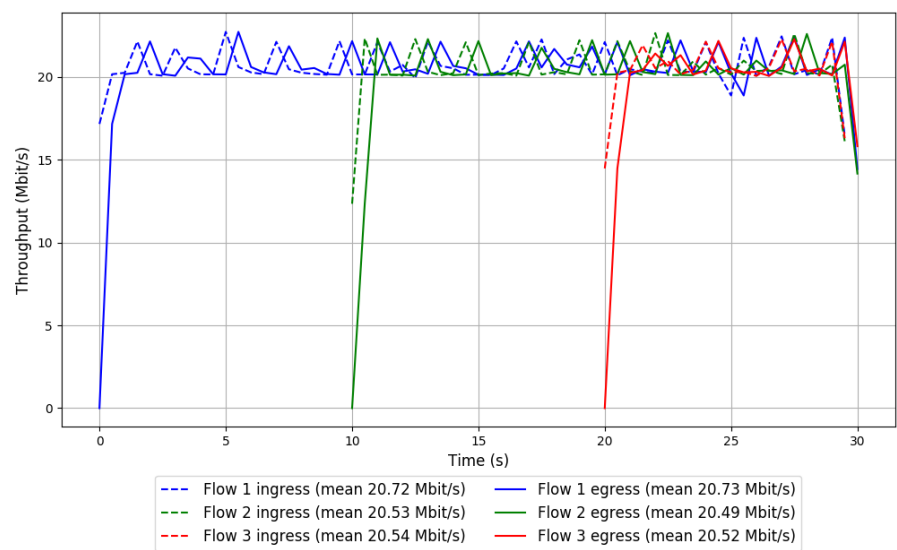


Run 10: Statistics of Sprout

Start at: 2018-06-19 12:57:34
End at: 2018-06-19 12:58:04
Local clock offset: 3.941 ms
Remote clock offset: -0.404 ms

Below is generated by plot.py at 2018-06-19 14:56:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.06 Mbit/s
95th percentile per-packet one-way delay: 1.135 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 20.73 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 20.49 Mbit/s
95th percentile per-packet one-way delay: 1.133 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 20.52 Mbit/s
95th percentile per-packet one-way delay: 1.119 ms
Loss rate: 0.12%

Run 10: Report of Sprout — Data Link

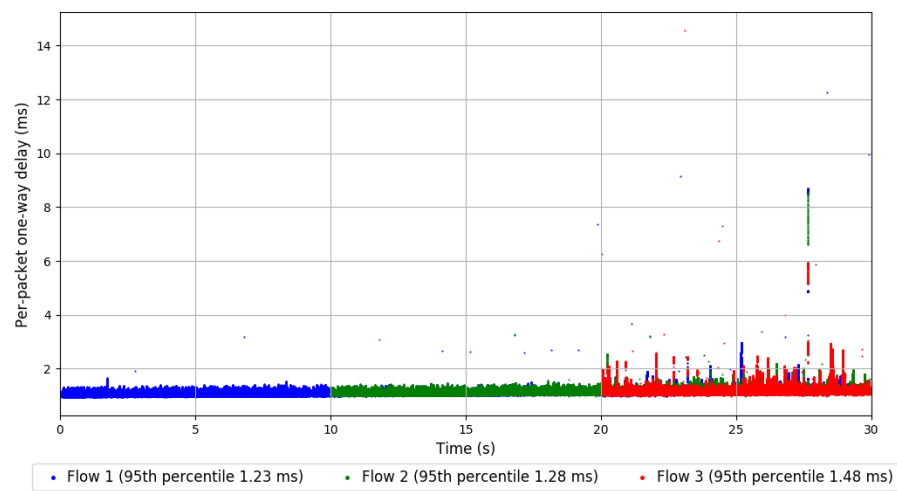
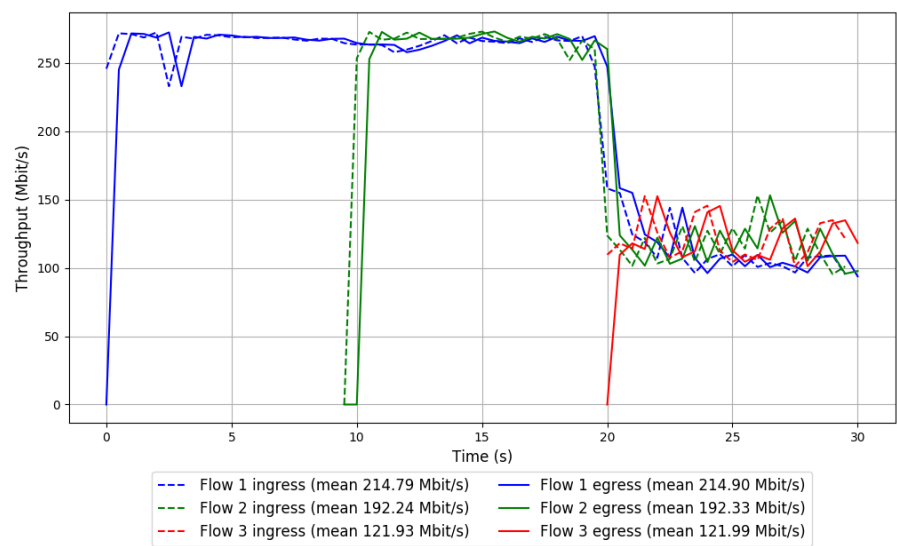


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-19 09:26:32
End at: 2018-06-19 09:27:02
Local clock offset: 3.442 ms
Remote clock offset: 2.407 ms

# Below is generated by plot.py at 2018-06-19 15:03:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 383.55 Mbit/s
95th percentile per-packet one-way delay: 1.263 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 214.90 Mbit/s
95th percentile per-packet one-way delay: 1.225 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 192.33 Mbit/s
95th percentile per-packet one-way delay: 1.276 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 121.99 Mbit/s
95th percentile per-packet one-way delay: 1.478 ms
Loss rate: 0.15%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-19 09:51:40

End at: 2018-06-19 09:52:10

Local clock offset: 3.707 ms

Remote clock offset: 2.959 ms

Below is generated by plot.py at 2018-06-19 15:03:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 384.28 Mbit/s

95th percentile per-packet one-way delay: 0.970 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 215.11 Mbit/s

95th percentile per-packet one-way delay: 0.976 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 197.54 Mbit/s

95th percentile per-packet one-way delay: 0.949 ms

Loss rate: 0.05%

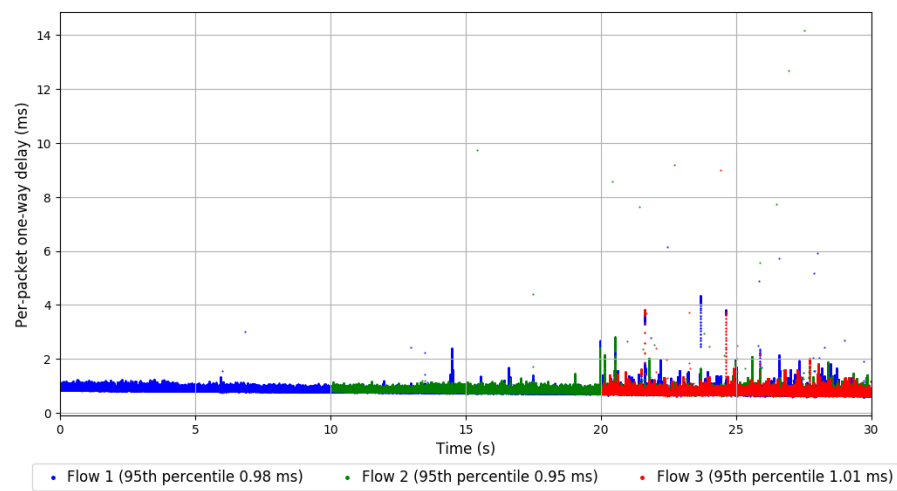
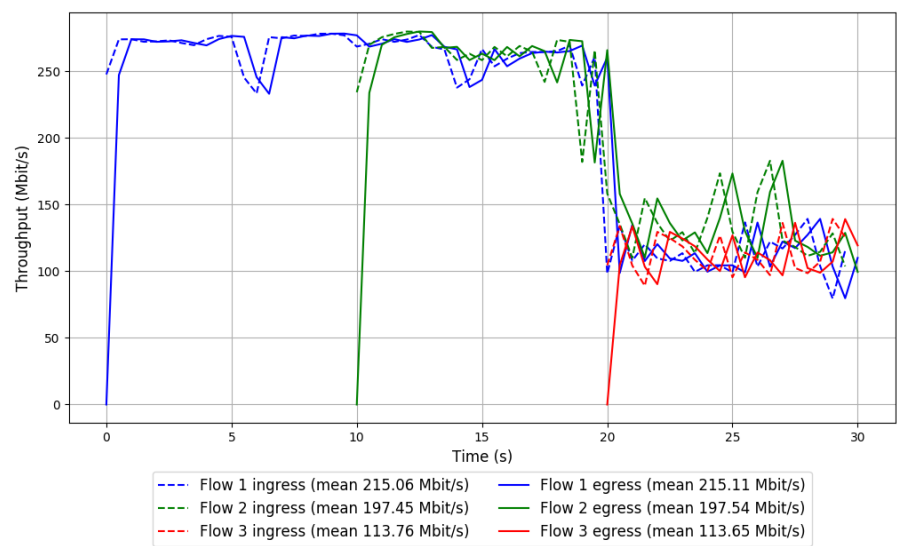
-- Flow 3:

Average throughput: 113.65 Mbit/s

95th percentile per-packet one-way delay: 1.014 ms

Loss rate: 0.29%

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

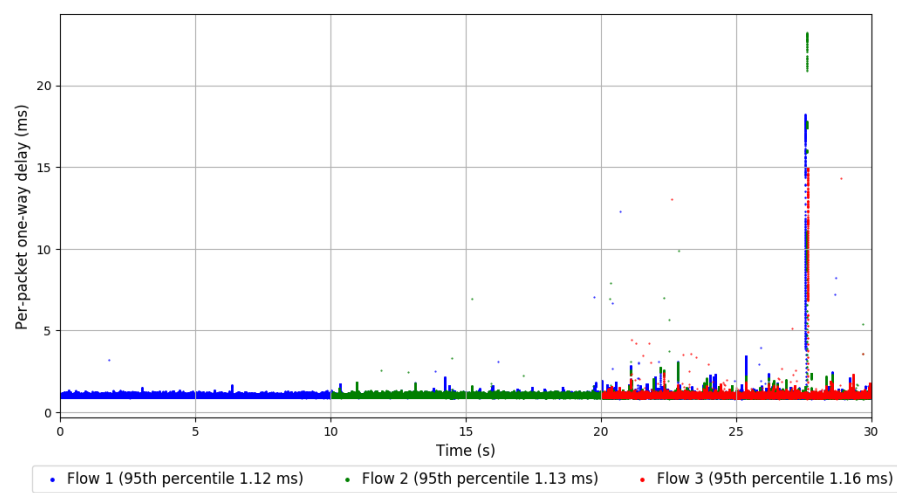
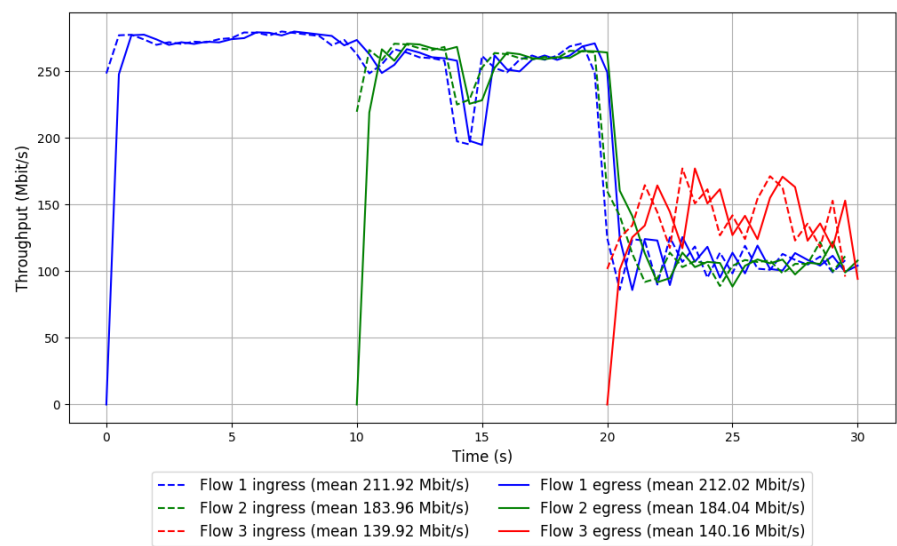


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-19 10:16:44
End at: 2018-06-19 10:17:14
Local clock offset: 3.592 ms
Remote clock offset: -1.202 ms

Below is generated by plot.py at 2018-06-19 15:03:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 380.97 Mbit/s
95th percentile per-packet one-way delay: 1.127 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 212.02 Mbit/s
95th percentile per-packet one-way delay: 1.117 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 184.04 Mbit/s
95th percentile per-packet one-way delay: 1.129 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 140.16 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.07%

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

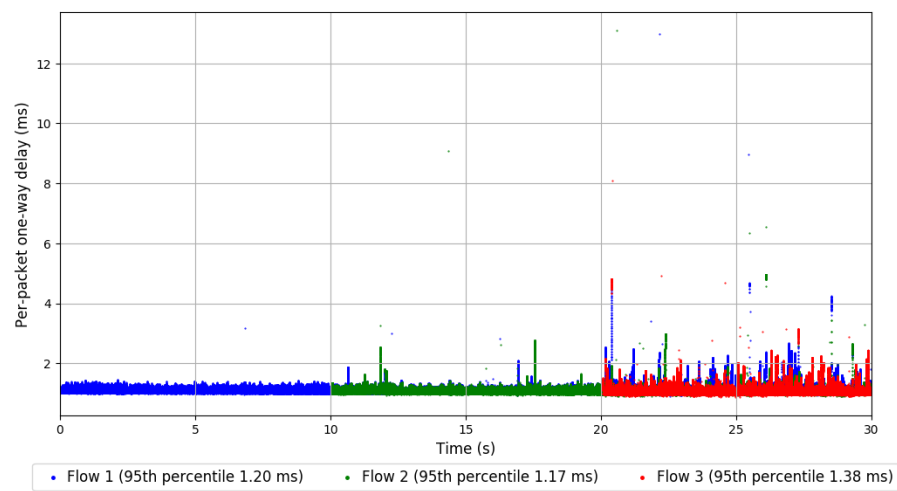
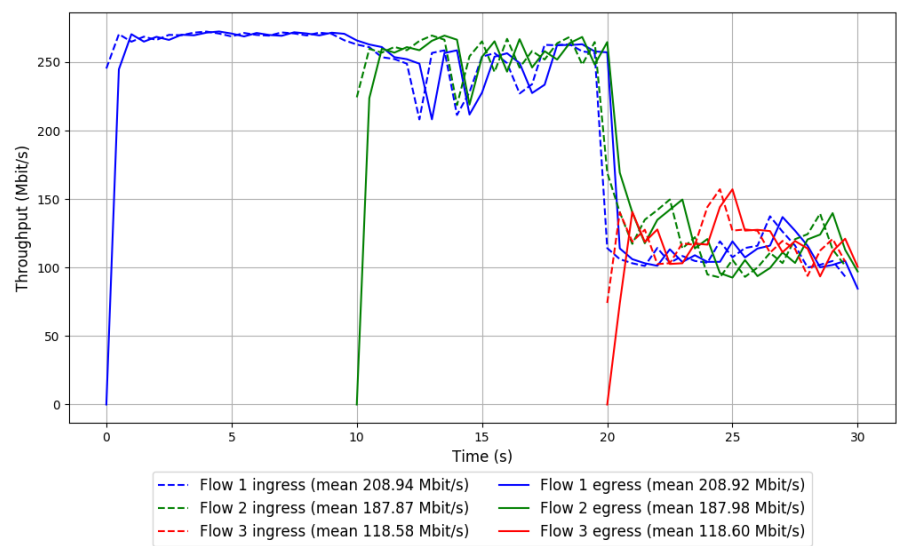


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-19 10:41:45
End at: 2018-06-19 10:42:15
Local clock offset: 3.646 ms
Remote clock offset: -4.333 ms

Below is generated by plot.py at 2018-06-19 15:03:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 373.29 Mbit/s
95th percentile per-packet one-way delay: 1.202 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 208.92 Mbit/s
95th percentile per-packet one-way delay: 1.201 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 187.98 Mbit/s
95th percentile per-packet one-way delay: 1.169 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 118.60 Mbit/s
95th percentile per-packet one-way delay: 1.376 ms
Loss rate: 0.19%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-19 11:06:59

End at: 2018-06-19 11:07:29

Local clock offset: 3.526 ms

Remote clock offset: 1.292 ms

Below is generated by plot.py at 2018-06-19 15:03:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.82 Mbit/s

95th percentile per-packet one-way delay: 1.225 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 222.26 Mbit/s

95th percentile per-packet one-way delay: 1.205 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 201.73 Mbit/s

95th percentile per-packet one-way delay: 1.217 ms

Loss rate: 0.01%

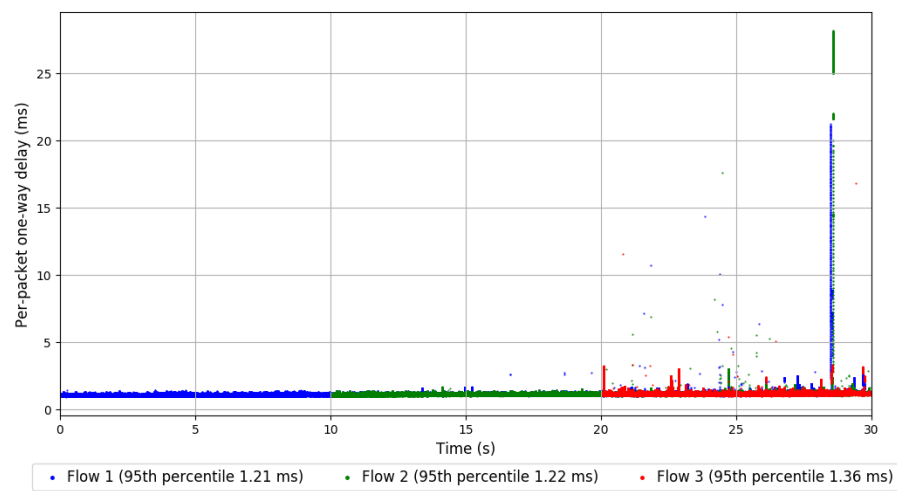
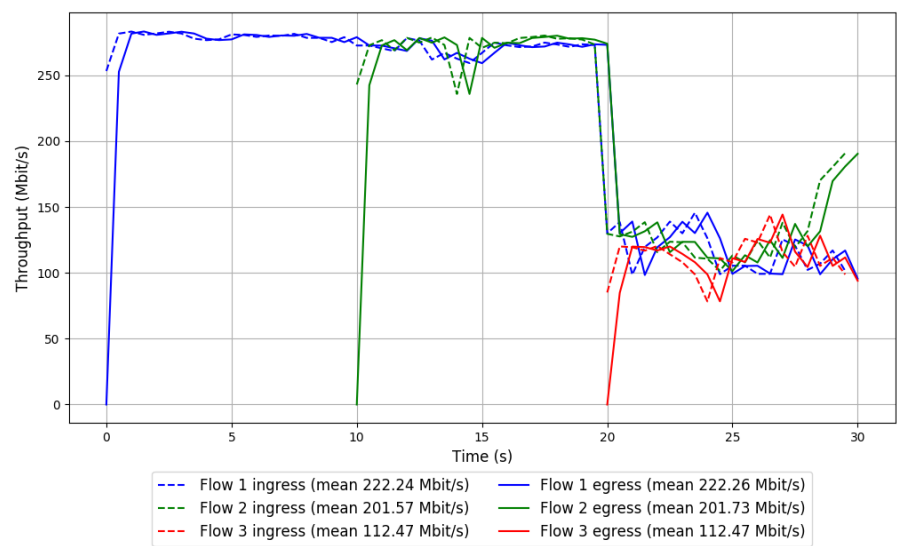
-- Flow 3:

Average throughput: 112.47 Mbit/s

95th percentile per-packet one-way delay: 1.357 ms

Loss rate: 0.22%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-19 11:32:16

End at: 2018-06-19 11:32:46

Local clock offset: 3.652 ms

Remote clock offset: 3.15 ms

Below is generated by plot.py at 2018-06-19 15:03:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 383.02 Mbit/s

95th percentile per-packet one-way delay: 0.896 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 220.00 Mbit/s

95th percentile per-packet one-way delay: 0.895 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 188.14 Mbit/s

95th percentile per-packet one-way delay: 0.889 ms

Loss rate: 0.09%

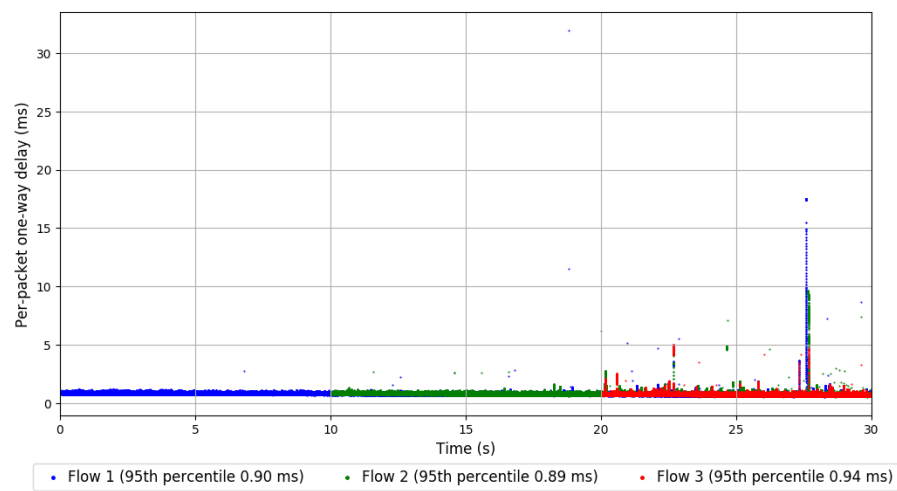
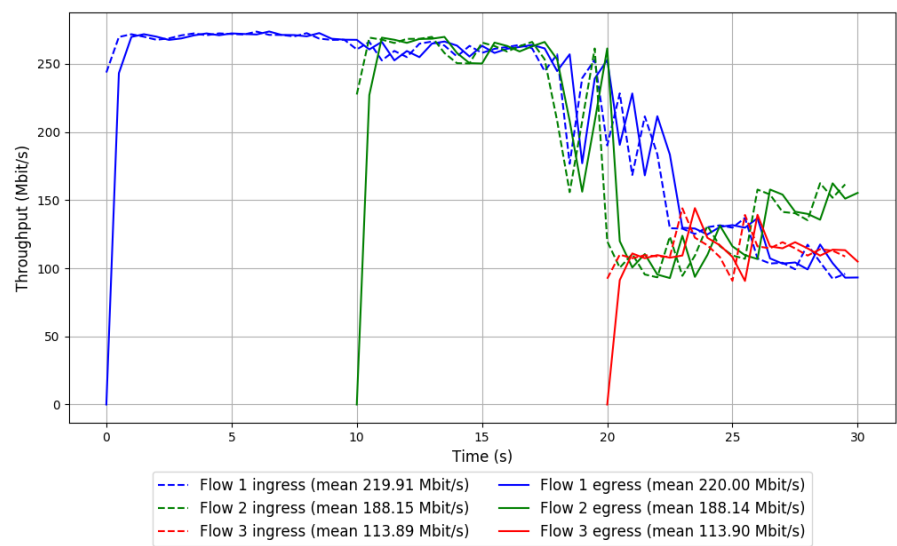
-- Flow 3:

Average throughput: 113.90 Mbit/s

95th percentile per-packet one-way delay: 0.937 ms

Loss rate: 0.16%

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

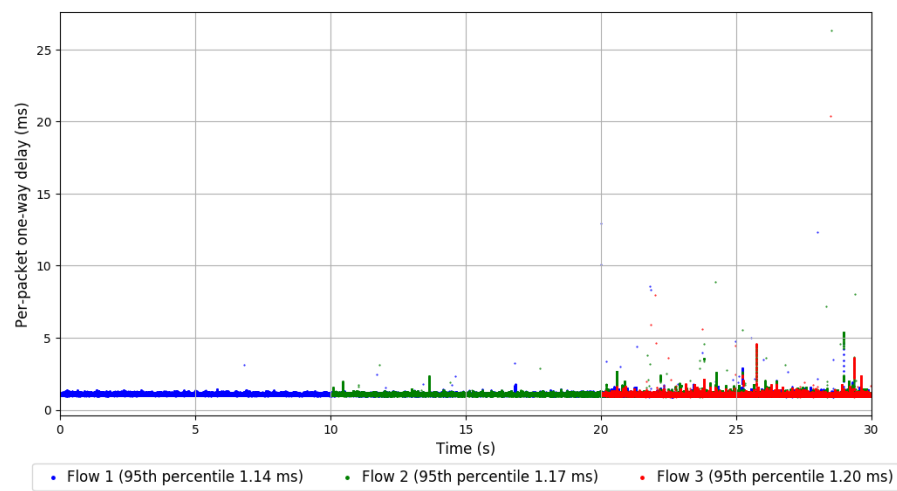
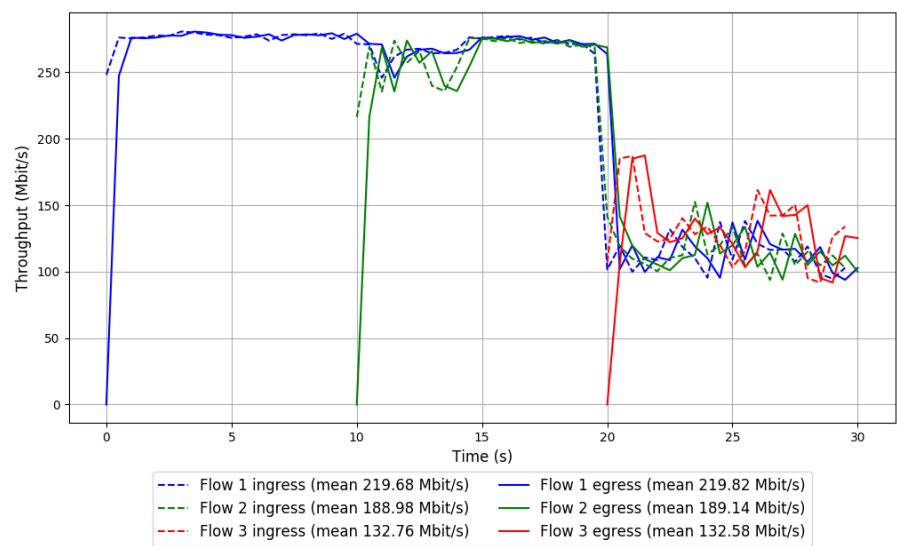


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-19 11:57:18
End at: 2018-06-19 11:57:48
Local clock offset: 3.635 ms
Remote clock offset: -0.318 ms

Below is generated by plot.py at 2018-06-19 15:04:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 389.64 Mbit/s
95th percentile per-packet one-way delay: 1.156 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 219.82 Mbit/s
95th percentile per-packet one-way delay: 1.144 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 189.14 Mbit/s
95th percentile per-packet one-way delay: 1.169 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 132.58 Mbit/s
95th percentile per-packet one-way delay: 1.197 ms
Loss rate: 0.33%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-19 12:22:36

End at: 2018-06-19 12:23:06

Local clock offset: 3.654 ms

Remote clock offset: 3.48 ms

Below is generated by plot.py at 2018-06-19 15:04:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 386.35 Mbit/s

95th percentile per-packet one-way delay: 1.302 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 214.66 Mbit/s

95th percentile per-packet one-way delay: 1.275 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 198.20 Mbit/s

95th percentile per-packet one-way delay: 1.308 ms

Loss rate: 0.09%

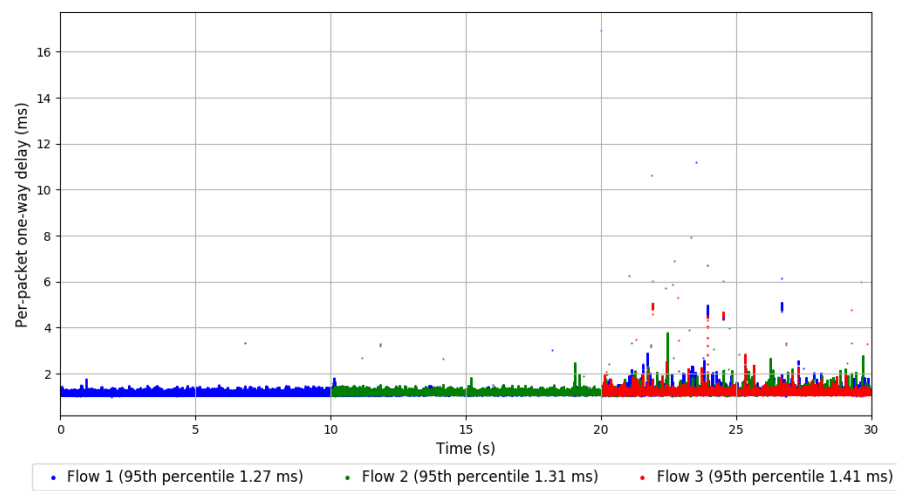
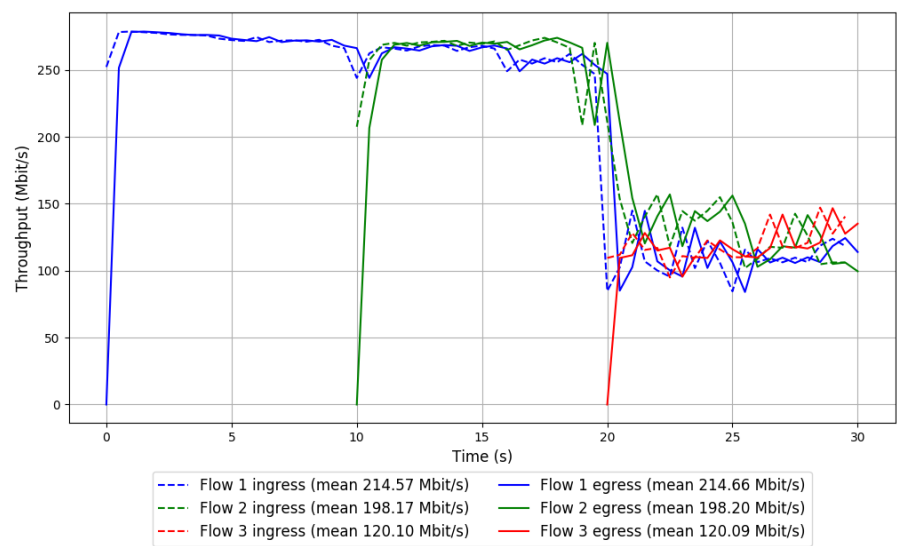
-- Flow 3:

Average throughput: 120.09 Mbit/s

95th percentile per-packet one-way delay: 1.406 ms

Loss rate: 0.25%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-19 12:47:59

End at: 2018-06-19 12:48:30

Local clock offset: 3.885 ms

Remote clock offset: 0.765 ms

Below is generated by plot.py at 2018-06-19 15:11:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 379.88 Mbit/s

95th percentile per-packet one-way delay: 1.228 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 216.61 Mbit/s

95th percentile per-packet one-way delay: 1.197 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 186.99 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.07%

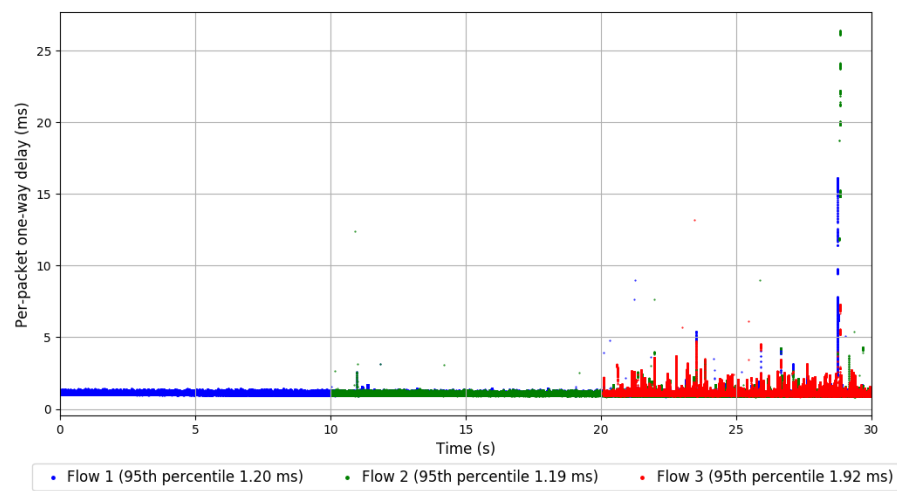
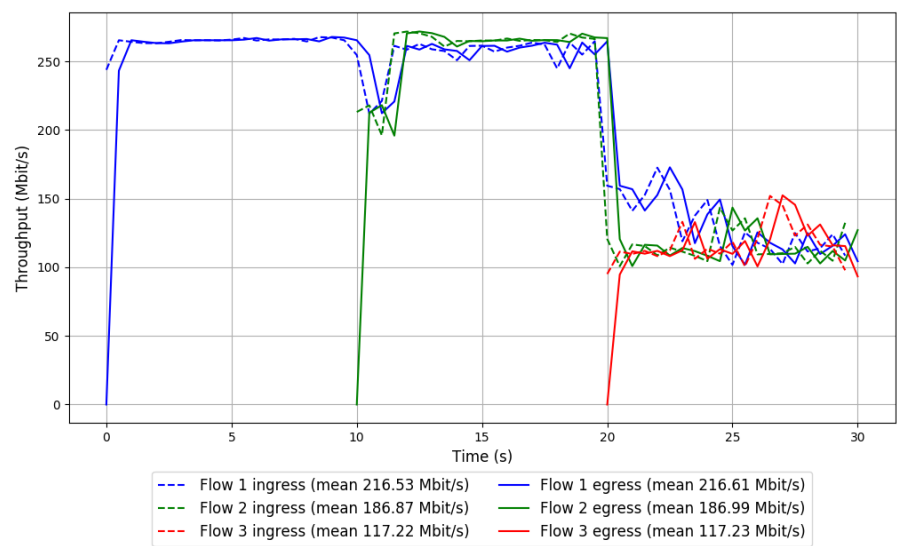
-- Flow 3:

Average throughput: 117.23 Mbit/s

95th percentile per-packet one-way delay: 1.924 ms

Loss rate: 0.19%

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

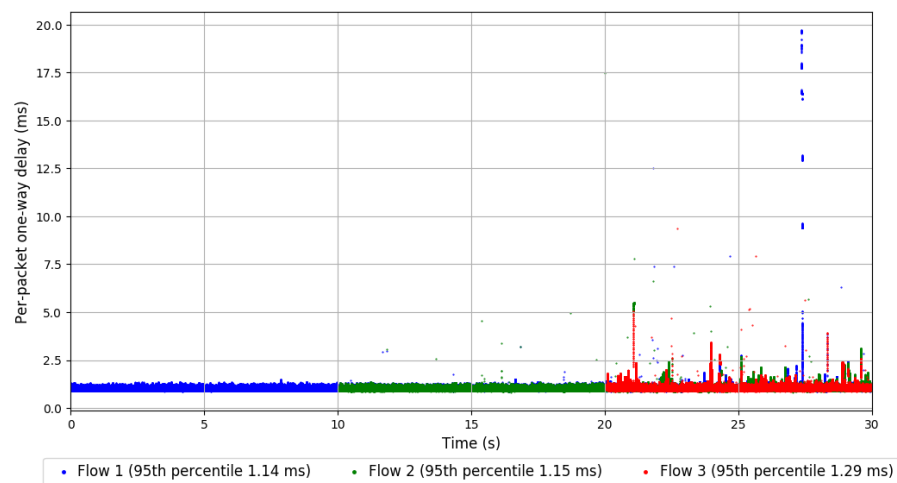
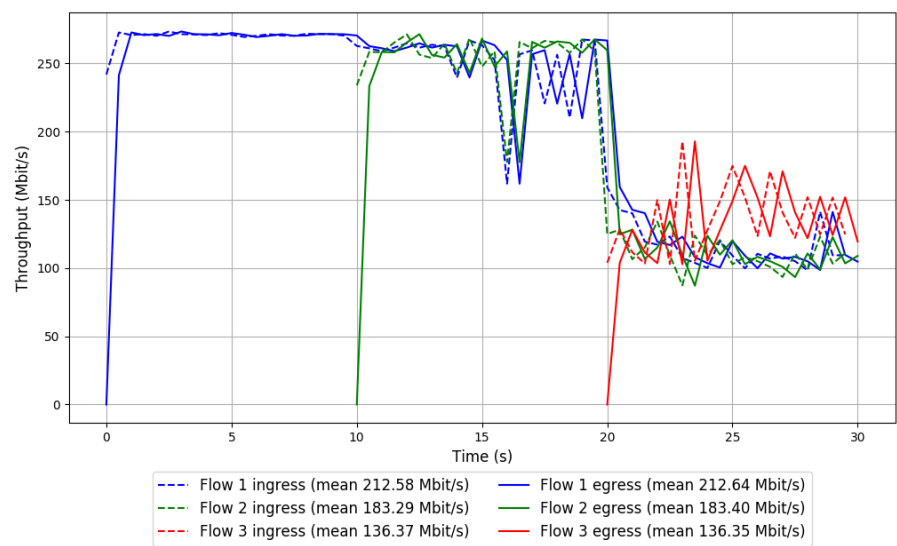


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-19 13:13:07
End at: 2018-06-19 13:13:37
Local clock offset: 4.271 ms
Remote clock offset: -1.003 ms

Below is generated by plot.py at 2018-06-19 15:11:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 379.91 Mbit/s
95th percentile per-packet one-way delay: 1.160 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 212.64 Mbit/s
95th percentile per-packet one-way delay: 1.142 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 183.40 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 136.35 Mbit/s
95th percentile per-packet one-way delay: 1.293 ms
Loss rate: 0.21%

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

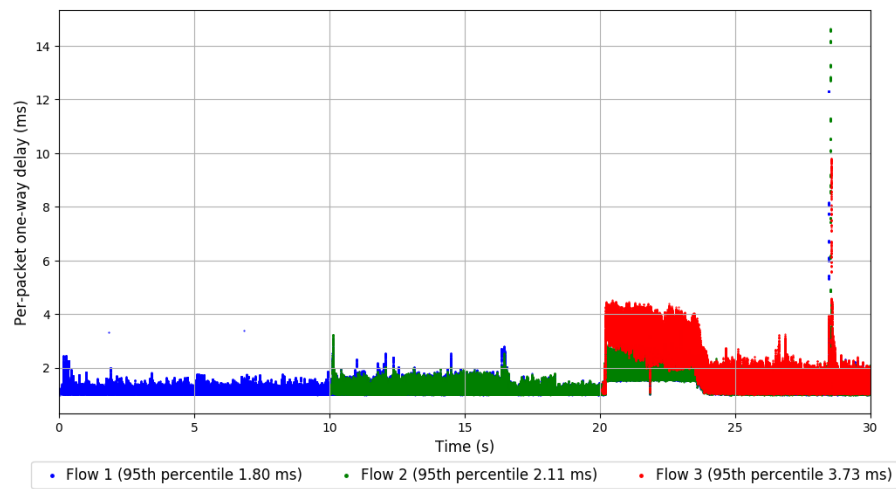
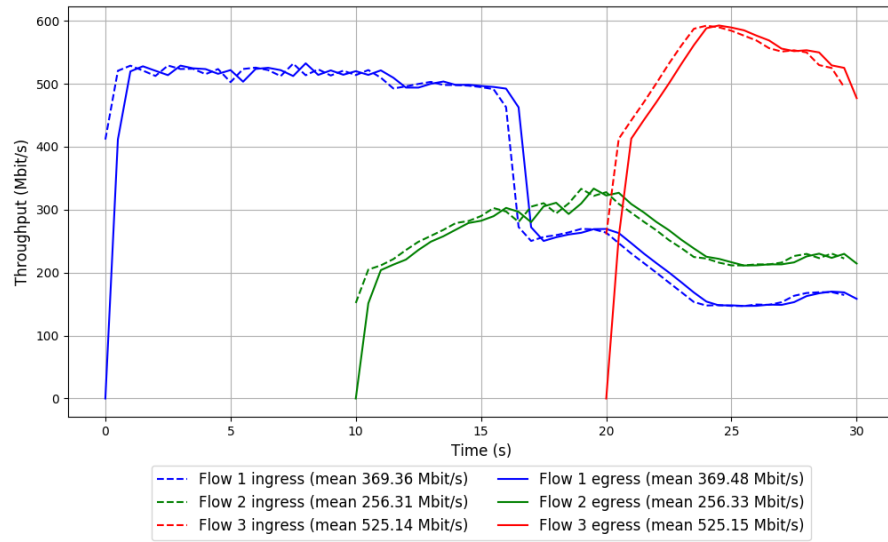


Run 1: Statistics of TCP Vegas

Start at: 2018-06-19 09:07:46
End at: 2018-06-19 09:08:16
Local clock offset: 3.604 ms
Remote clock offset: -4.253 ms

Below is generated by plot.py at 2018-06-19 15:11:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 713.93 Mbit/s
95th percentile per-packet one-way delay: 3.012 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 369.48 Mbit/s
95th percentile per-packet one-way delay: 1.798 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 256.33 Mbit/s
95th percentile per-packet one-way delay: 2.113 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 525.15 Mbit/s
95th percentile per-packet one-way delay: 3.733 ms
Loss rate: 0.18%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-19 09:32:58

End at: 2018-06-19 09:33:28

Local clock offset: 3.522 ms

Remote clock offset: 3.704 ms

Below is generated by plot.py at 2018-06-19 15:11:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 736.91 Mbit/s

95th percentile per-packet one-way delay: 2.568 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 306.30 Mbit/s

95th percentile per-packet one-way delay: 2.092 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 537.93 Mbit/s

95th percentile per-packet one-way delay: 2.792 ms

Loss rate: 0.06%

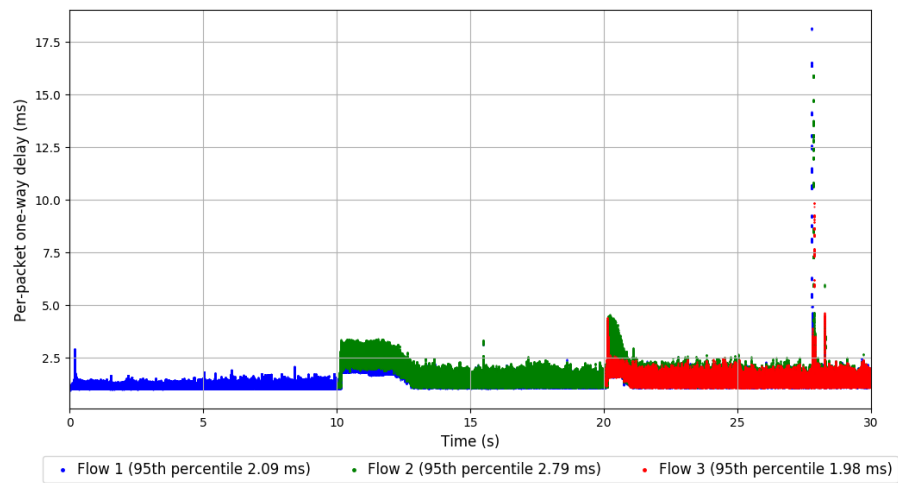
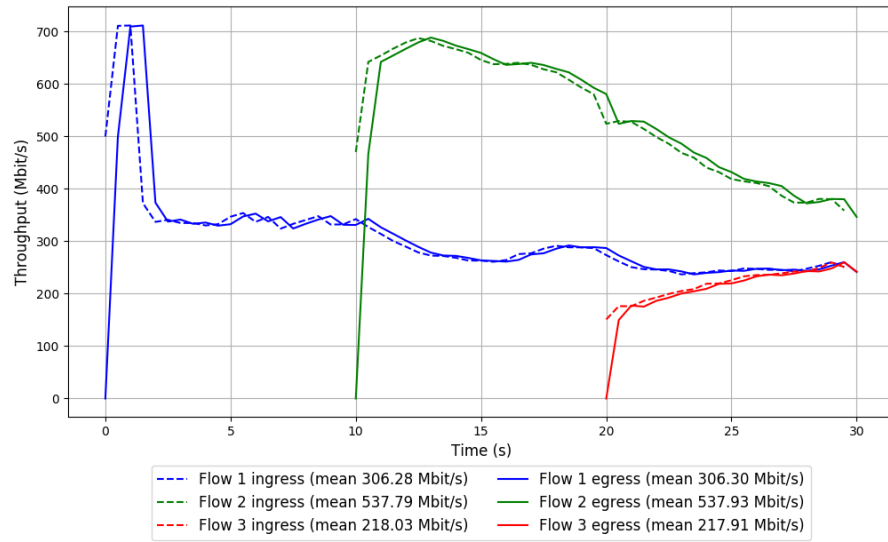
-- Flow 3:

Average throughput: 217.91 Mbit/s

95th percentile per-packet one-way delay: 1.979 ms

Loss rate: 0.23%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-19 09:58:08

End at: 2018-06-19 09:58:38

Local clock offset: 3.741 ms

Remote clock offset: 0.909 ms

Below is generated by plot.py at 2018-06-19 15:11:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 471.20 Mbit/s

95th percentile per-packet one-way delay: 1.439 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 144.78 Mbit/s

95th percentile per-packet one-way delay: 1.248 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 327.06 Mbit/s

95th percentile per-packet one-way delay: 1.428 ms

Loss rate: 0.12%

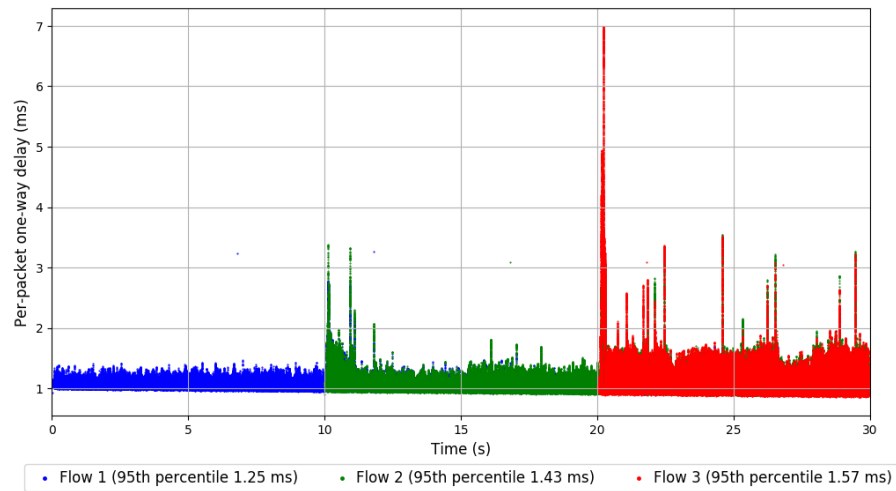
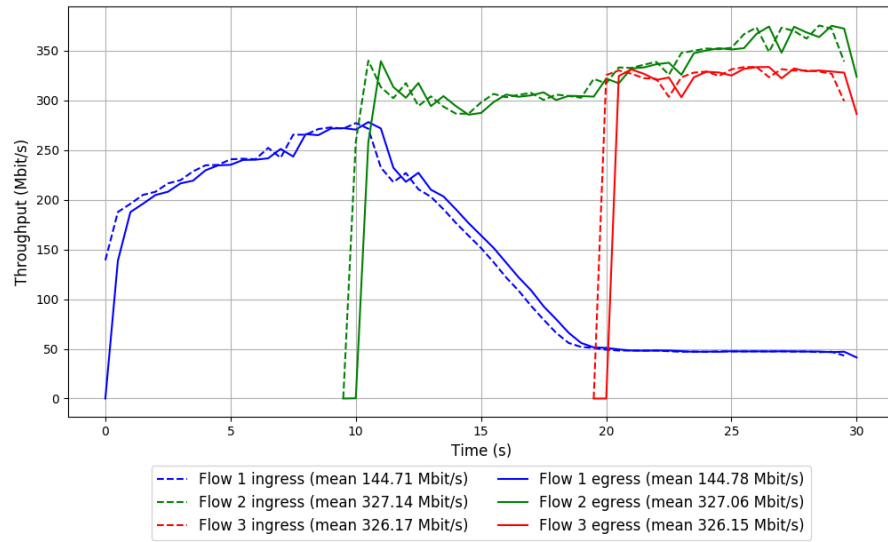
-- Flow 3:

Average throughput: 326.15 Mbit/s

95th percentile per-packet one-way delay: 1.568 ms

Loss rate: 0.20%

Run 3: Report of TCP Vegas — Data Link

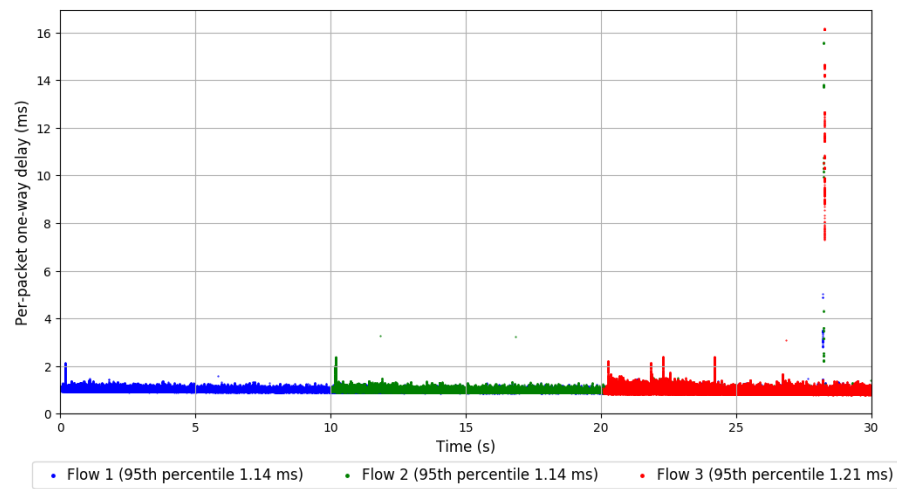
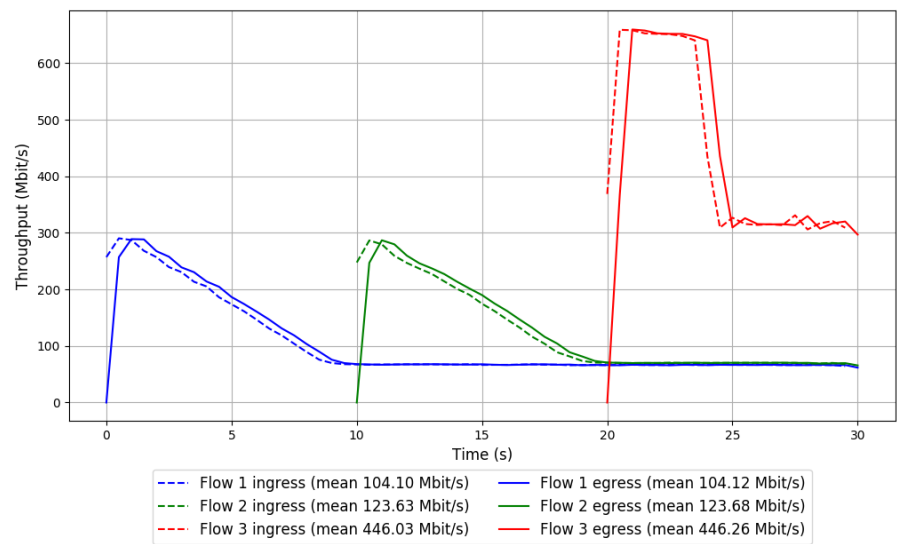


Run 4: Statistics of TCP Vegas

Start at: 2018-06-19 10:23:11
End at: 2018-06-19 10:23:41
Local clock offset: 3.591 ms
Remote clock offset: -1.983 ms

Below is generated by plot.py at 2018-06-19 15:11:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 333.86 Mbit/s
95th percentile per-packet one-way delay: 1.172 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 104.12 Mbit/s
95th percentile per-packet one-way delay: 1.139 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 123.68 Mbit/s
95th percentile per-packet one-way delay: 1.142 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 446.26 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.15%

Run 4: Report of TCP Vegas — Data Link

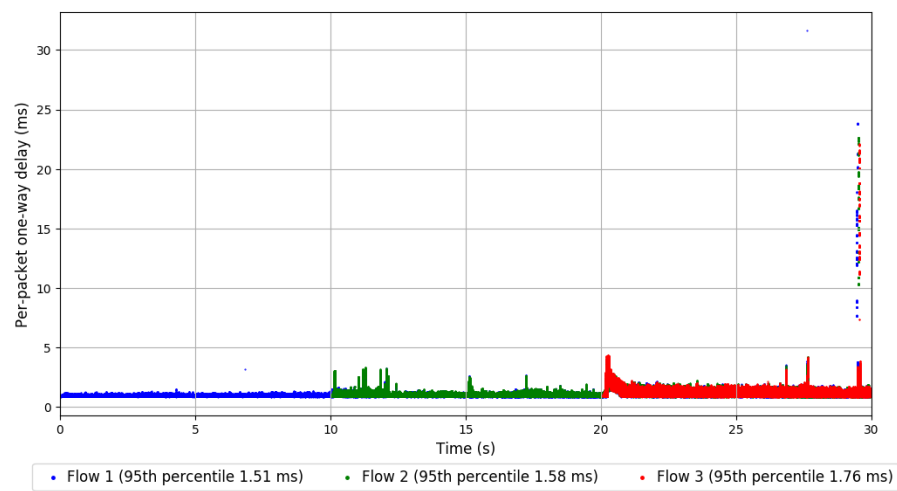
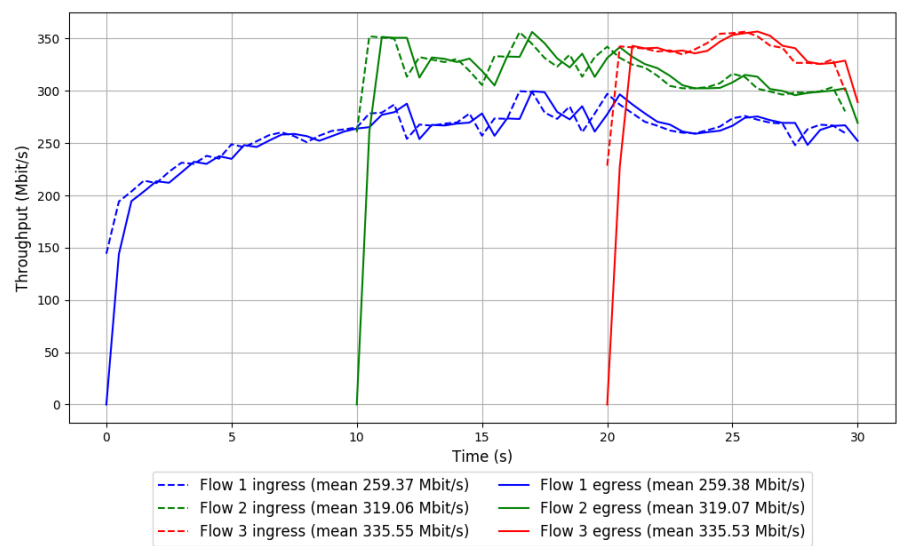


Run 5: Statistics of TCP Vegas

Start at: 2018-06-19 10:48:13
End at: 2018-06-19 10:48:43
Local clock offset: 3.505 ms
Remote clock offset: -4.836 ms

Below is generated by plot.py at 2018-06-19 15:11:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 582.79 Mbit/s
95th percentile per-packet one-way delay: 1.588 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 259.38 Mbit/s
95th percentile per-packet one-way delay: 1.513 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 319.07 Mbit/s
95th percentile per-packet one-way delay: 1.581 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 335.53 Mbit/s
95th percentile per-packet one-way delay: 1.761 ms
Loss rate: 0.18%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-19 11:13:27

End at: 2018-06-19 11:13:57

Local clock offset: 3.587 ms

Remote clock offset: 2.693 ms

Below is generated by plot.py at 2018-06-19 15:11:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 677.09 Mbit/s

95th percentile per-packet one-way delay: 3.065 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 352.63 Mbit/s

95th percentile per-packet one-way delay: 2.538 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 350.01 Mbit/s

95th percentile per-packet one-way delay: 4.146 ms

Loss rate: 0.08%

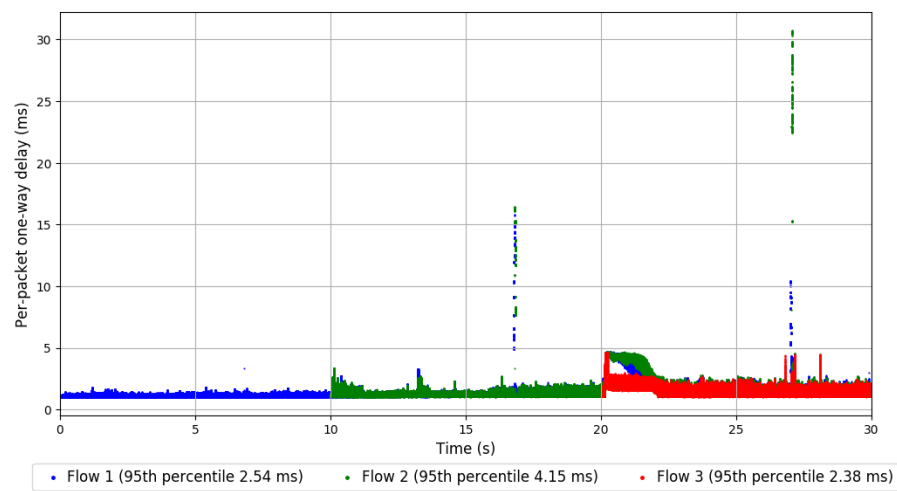
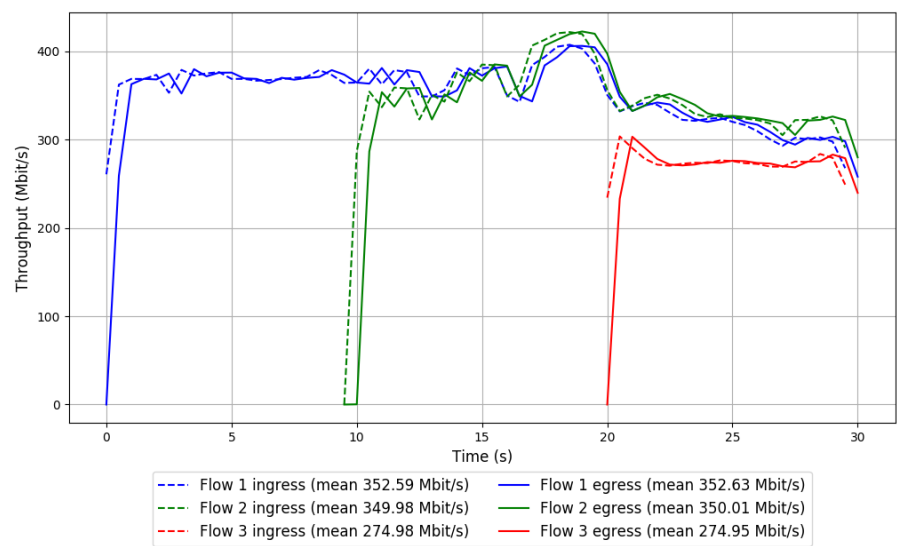
-- Flow 3:

Average throughput: 274.95 Mbit/s

95th percentile per-packet one-way delay: 2.384 ms

Loss rate: 0.19%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-19 11:38:42

End at: 2018-06-19 11:39:12

Local clock offset: 3.608 ms

Remote clock offset: 1.286 ms

Below is generated by plot.py at 2018-06-19 15:12:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 402.86 Mbit/s

95th percentile per-packet one-way delay: 1.345 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 77.46 Mbit/s

95th percentile per-packet one-way delay: 1.204 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 362.11 Mbit/s

95th percentile per-packet one-way delay: 1.393 ms

Loss rate: 0.10%

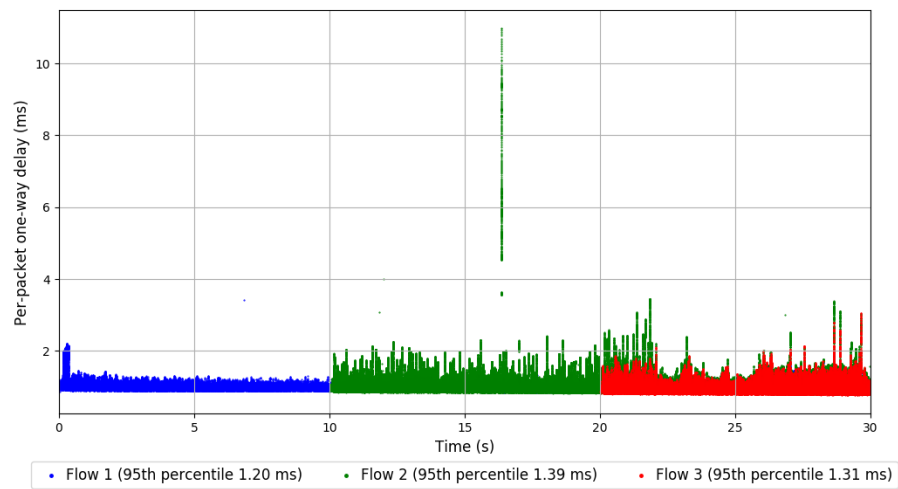
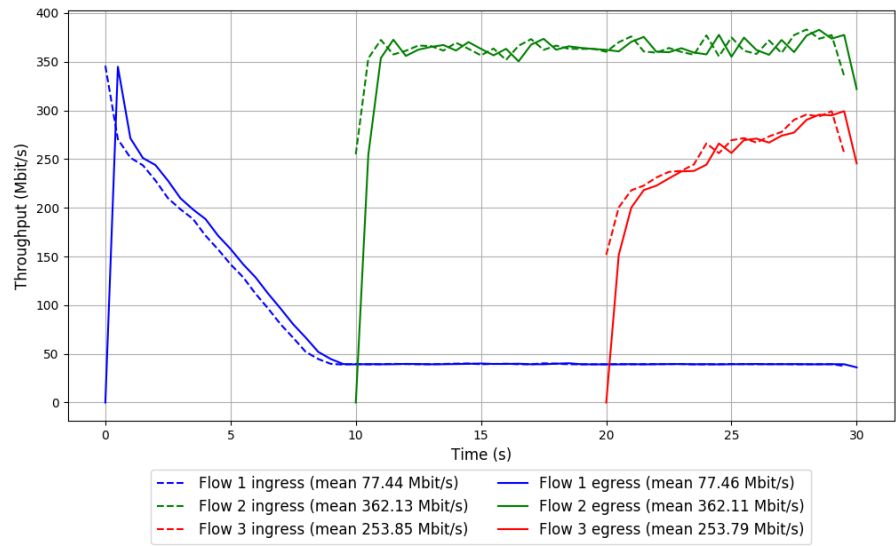
-- Flow 3:

Average throughput: 253.79 Mbit/s

95th percentile per-packet one-way delay: 1.308 ms

Loss rate: 0.21%

Run 7: Report of TCP Vegas — Data Link

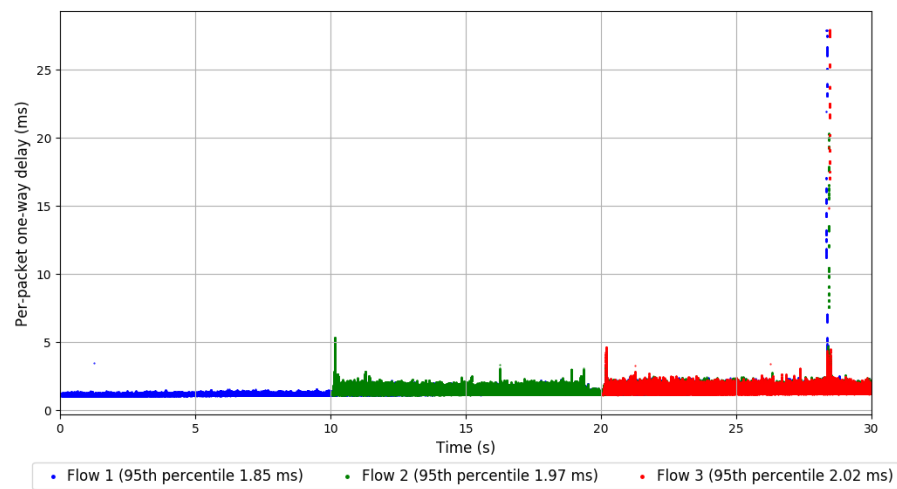
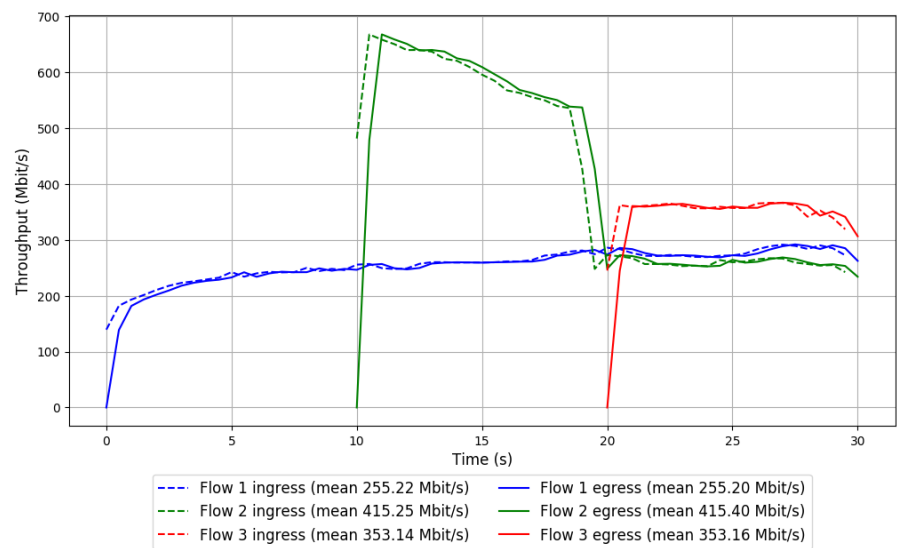


Run 8: Statistics of TCP Vegas

Start at: 2018-06-19 12:03:46
End at: 2018-06-19 12:04:16
Local clock offset: 3.592 ms
Remote clock offset: -0.394 ms

Below is generated by plot.py at 2018-06-19 15:16:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 648.67 Mbit/s
95th percentile per-packet one-way delay: 1.946 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 255.20 Mbit/s
95th percentile per-packet one-way delay: 1.854 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 415.40 Mbit/s
95th percentile per-packet one-way delay: 1.968 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 353.16 Mbit/s
95th percentile per-packet one-way delay: 2.023 ms
Loss rate: 0.18%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-19 12:29:05

End at: 2018-06-19 12:29:35

Local clock offset: 3.54 ms

Remote clock offset: 4.007 ms

Below is generated by plot.py at 2018-06-19 15:18:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 688.80 Mbit/s

95th percentile per-packet one-way delay: 3.731 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 355.62 Mbit/s

95th percentile per-packet one-way delay: 3.192 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 351.51 Mbit/s

95th percentile per-packet one-way delay: 4.439 ms

Loss rate: 0.08%

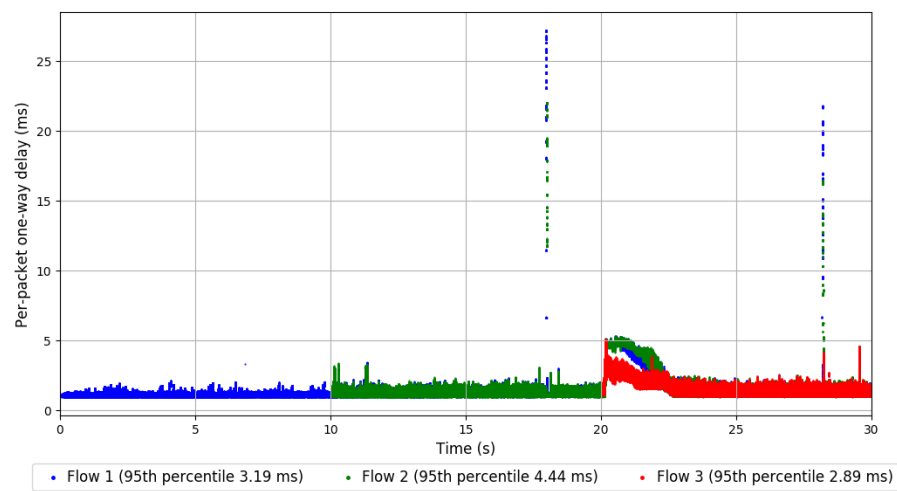
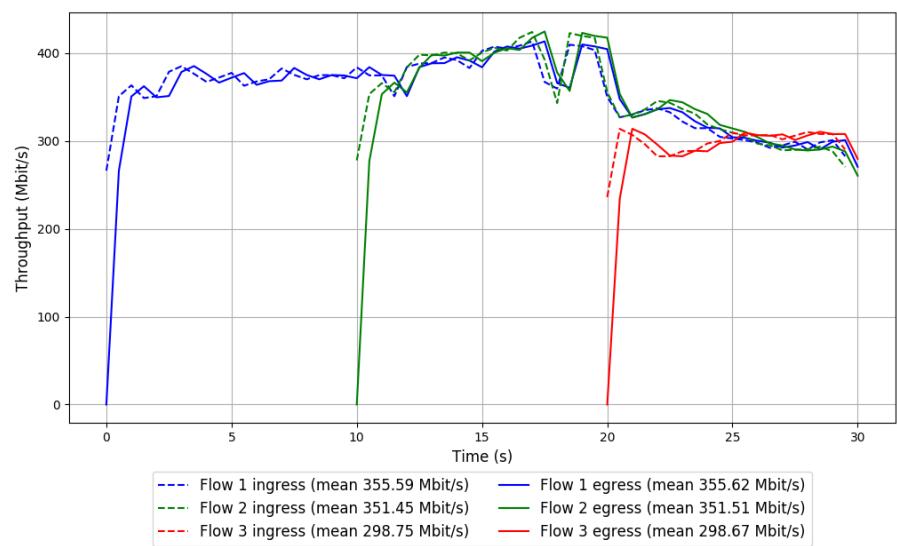
-- Flow 3:

Average throughput: 298.67 Mbit/s

95th percentile per-packet one-way delay: 2.891 ms

Loss rate: 0.20%

Run 9: Report of TCP Vegas — Data Link

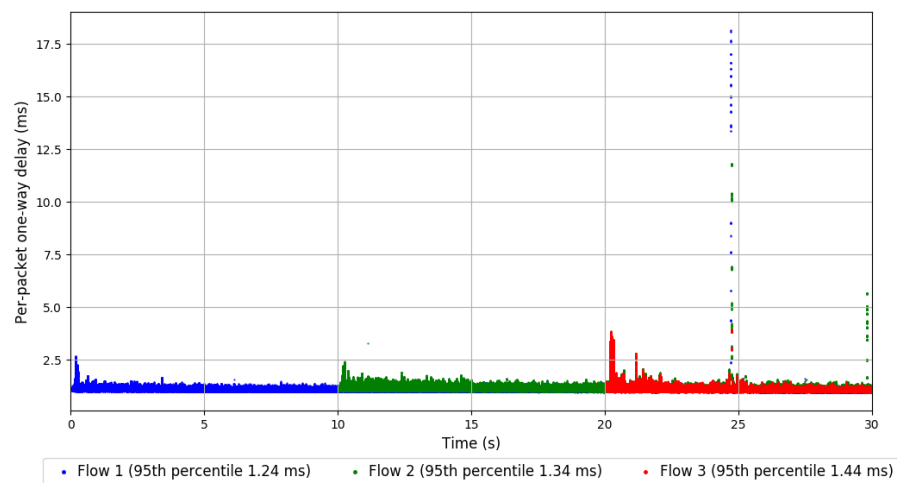
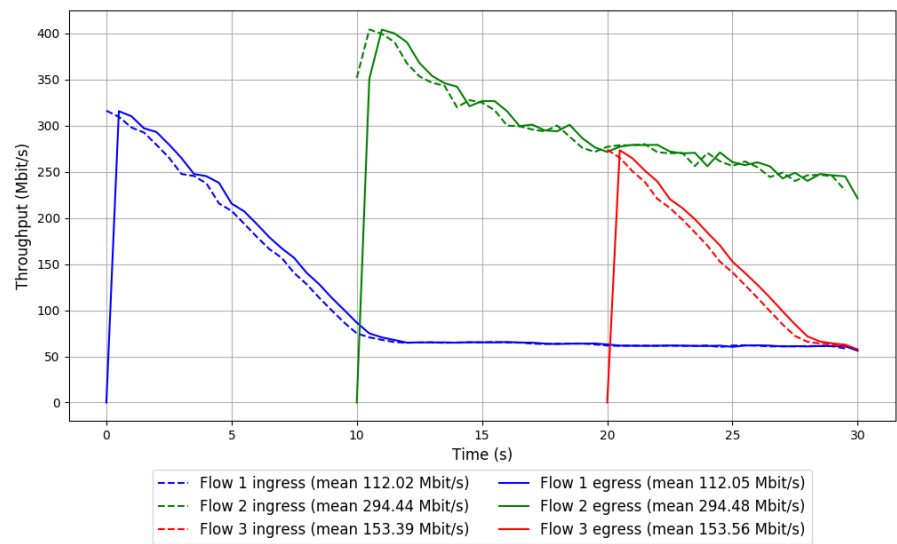


Run 10: Statistics of TCP Vegas

Start at: 2018-06-19 12:54:25
End at: 2018-06-19 12:54:55
Local clock offset: 3.944 ms
Remote clock offset: -0.147 ms

Below is generated by plot.py at 2018-06-19 15:18:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 359.10 Mbit/s
95th percentile per-packet one-way delay: 1.322 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 112.05 Mbit/s
95th percentile per-packet one-way delay: 1.242 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 294.48 Mbit/s
95th percentile per-packet one-way delay: 1.336 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 153.56 Mbit/s
95th percentile per-packet one-way delay: 1.444 ms
Loss rate: 0.08%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-19 09:20:40

End at: 2018-06-19 09:21:10

Local clock offset: 3.532 ms

Remote clock offset: 0.377 ms

Below is generated by plot.py at 2018-06-19 15:18:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.43 Mbit/s

95th percentile per-packet one-way delay: 4.604 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 178.69 Mbit/s

95th percentile per-packet one-way delay: 5.630 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 168.45 Mbit/s

95th percentile per-packet one-way delay: 3.149 ms

Loss rate: 0.07%

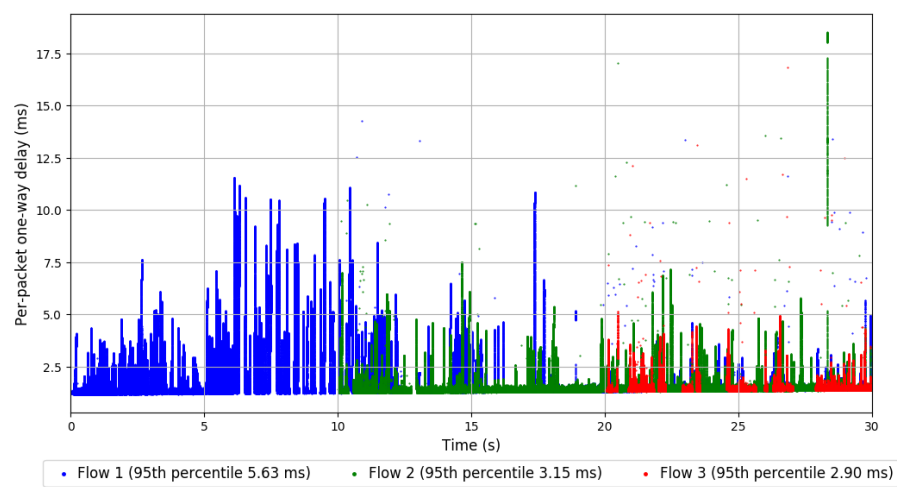
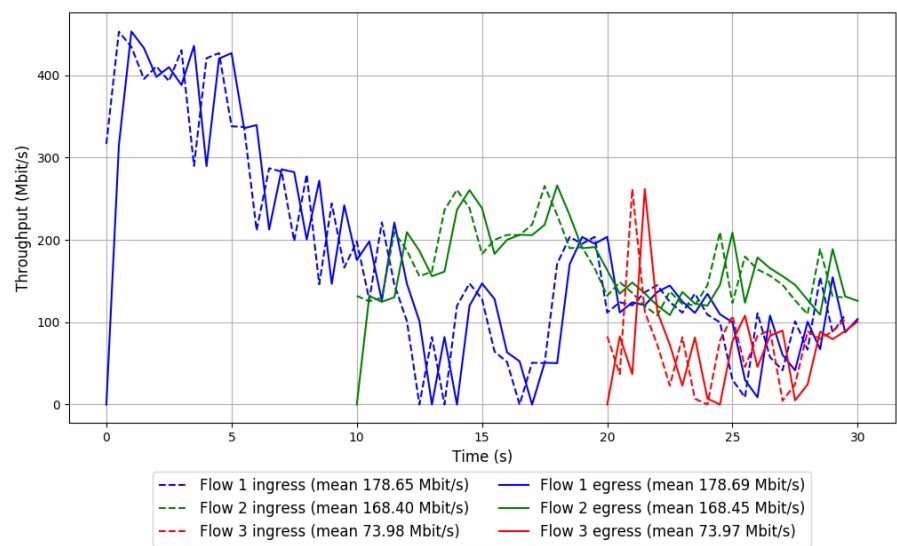
-- Flow 3:

Average throughput: 73.97 Mbit/s

95th percentile per-packet one-way delay: 2.905 ms

Loss rate: 0.20%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-19 09:45:49

End at: 2018-06-19 09:46:19

Local clock offset: 3.673 ms

Remote clock offset: 5.245 ms

Below is generated by plot.py at 2018-06-19 15:18:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.06 Mbit/s

95th percentile per-packet one-way delay: 9.090 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 186.42 Mbit/s

95th percentile per-packet one-way delay: 10.097 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 137.82 Mbit/s

95th percentile per-packet one-way delay: 1.848 ms

Loss rate: 0.10%

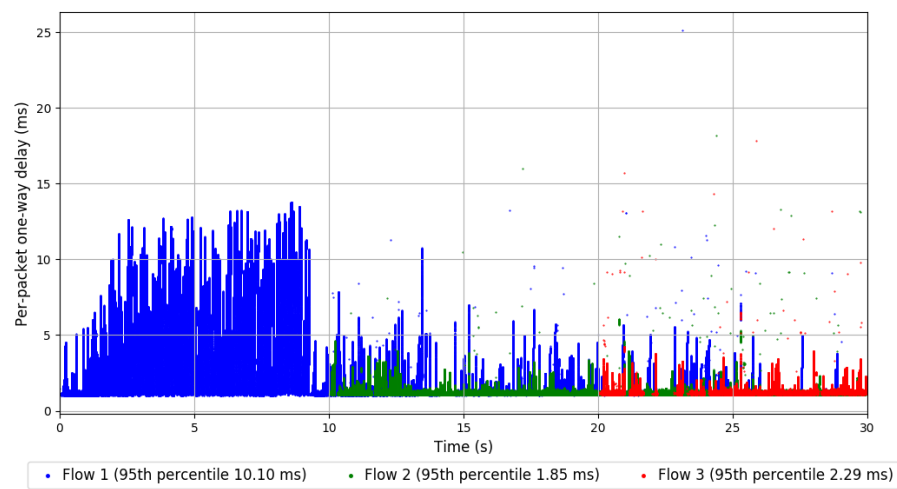
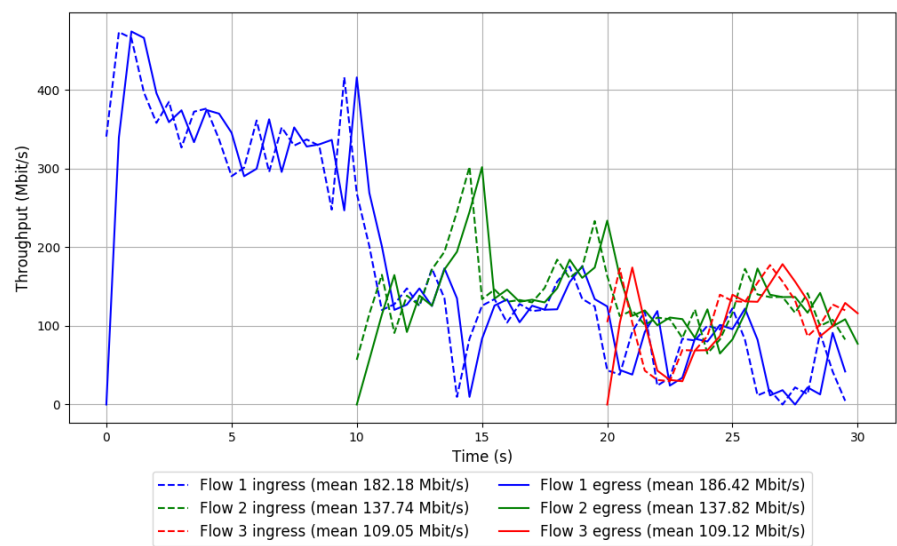
-- Flow 3:

Average throughput: 109.12 Mbit/s

95th percentile per-packet one-way delay: 2.295 ms

Loss rate: 0.18%

Run 2: Report of Verus — Data Link

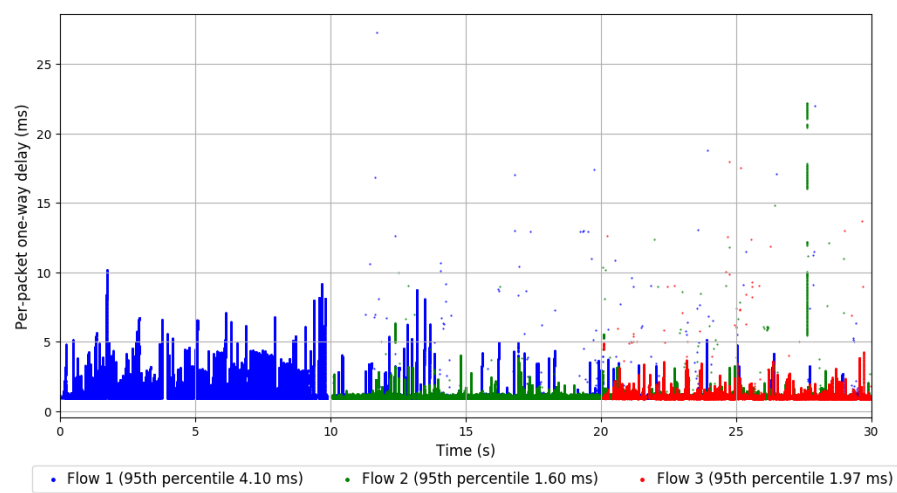
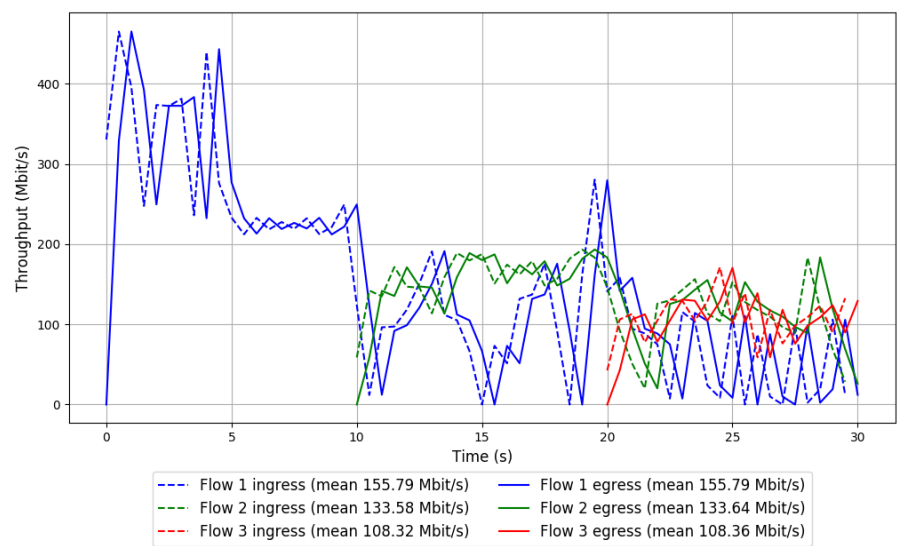


Run 3: Statistics of Verus

Start at: 2018-06-19 10:10:53
End at: 2018-06-19 10:11:23
Local clock offset: 3.681 ms
Remote clock offset: -0.757 ms

Below is generated by plot.py at 2018-06-19 15:18:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 278.66 Mbit/s
95th percentile per-packet one-way delay: 3.389 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 155.79 Mbit/s
95th percentile per-packet one-way delay: 4.097 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 133.64 Mbit/s
95th percentile per-packet one-way delay: 1.604 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 108.36 Mbit/s
95th percentile per-packet one-way delay: 1.970 ms
Loss rate: 0.16%

Run 3: Report of Verus — Data Link

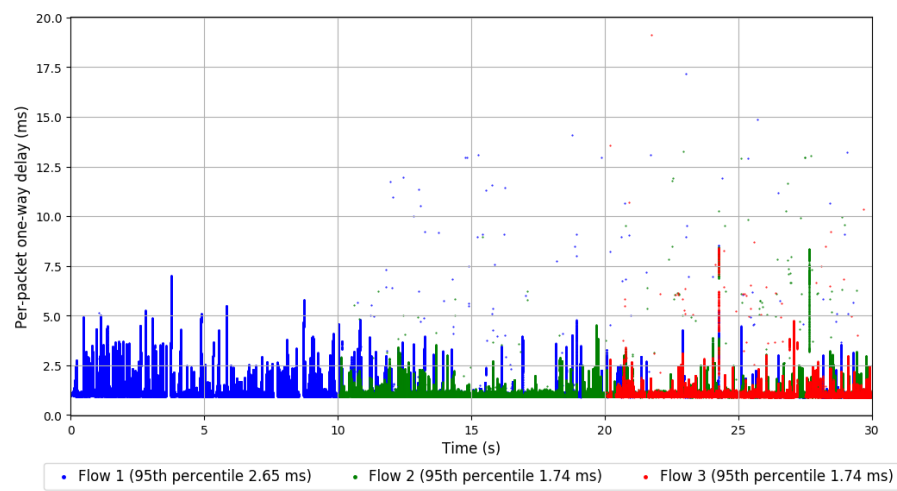
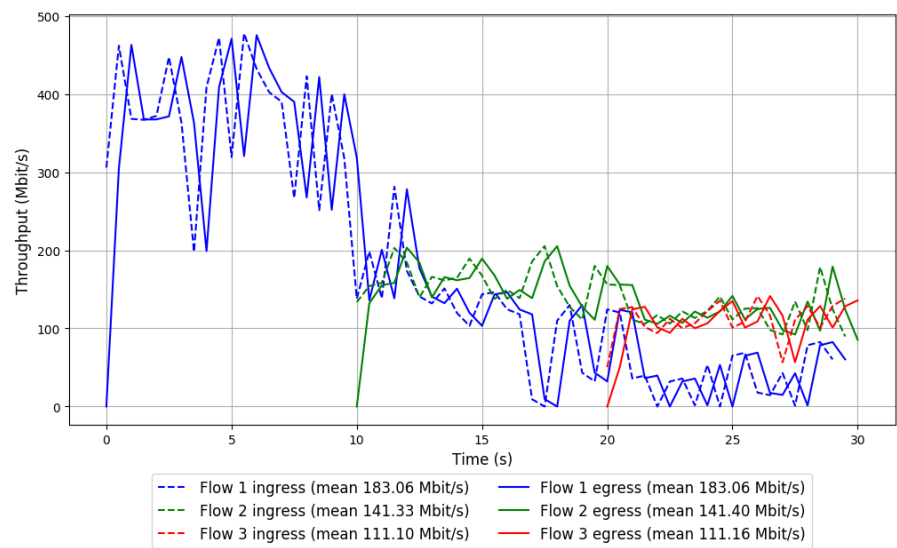


Run 4: Statistics of Verus

Start at: 2018-06-19 10:35:53
End at: 2018-06-19 10:36:23
Local clock offset: 3.606 ms
Remote clock offset: -3.821 ms

Below is generated by plot.py at 2018-06-19 15:18:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 310.47 Mbit/s
95th percentile per-packet one-way delay: 2.299 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 183.06 Mbit/s
95th percentile per-packet one-way delay: 2.650 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 141.40 Mbit/s
95th percentile per-packet one-way delay: 1.742 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 111.16 Mbit/s
95th percentile per-packet one-way delay: 1.735 ms
Loss rate: 0.13%

Run 4: Report of Verus — Data Link

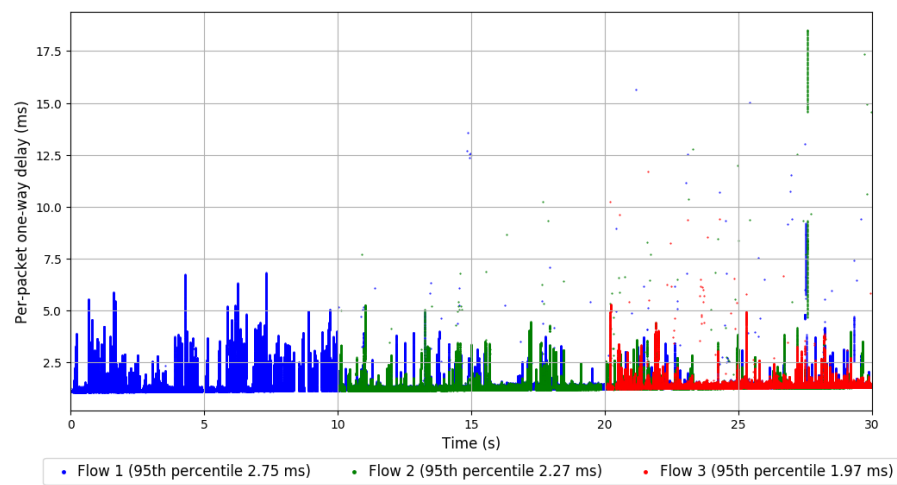
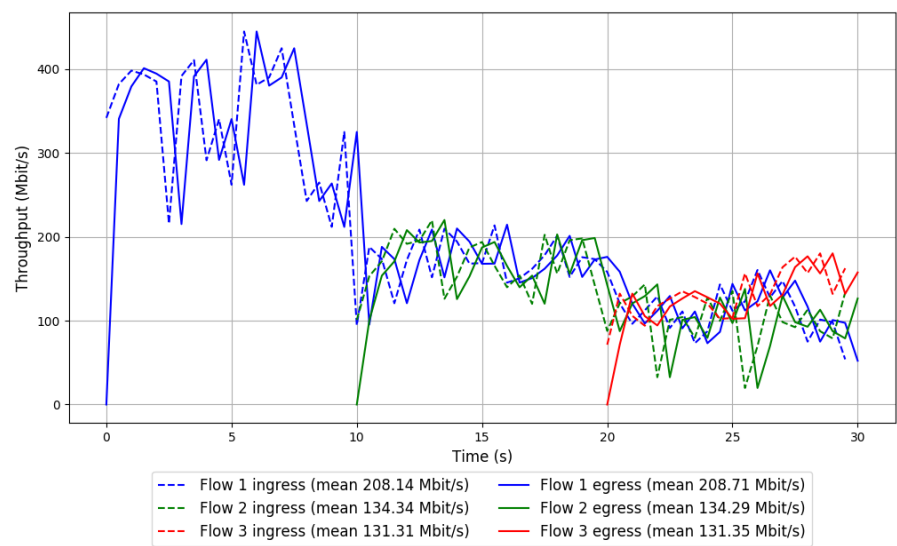


Run 5: Statistics of Verus

Start at: 2018-06-19 11:01:06
End at: 2018-06-19 11:01:36
Local clock offset: 3.492 ms
Remote clock offset: -1.104 ms

Below is generated by plot.py at 2018-06-19 15:18:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 341.14 Mbit/s
95th percentile per-packet one-way delay: 2.579 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 208.71 Mbit/s
95th percentile per-packet one-way delay: 2.754 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 134.29 Mbit/s
95th percentile per-packet one-way delay: 2.272 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 131.35 Mbit/s
95th percentile per-packet one-way delay: 1.974 ms
Loss rate: 0.20%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-19 11:26:23

End at: 2018-06-19 11:26:53

Local clock offset: 3.731 ms

Remote clock offset: 4.201 ms

Below is generated by plot.py at 2018-06-19 15:18:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.57 Mbit/s

95th percentile per-packet one-way delay: 3.013 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 178.59 Mbit/s

95th percentile per-packet one-way delay: 3.819 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 145.63 Mbit/s

95th percentile per-packet one-way delay: 1.962 ms

Loss rate: 0.09%

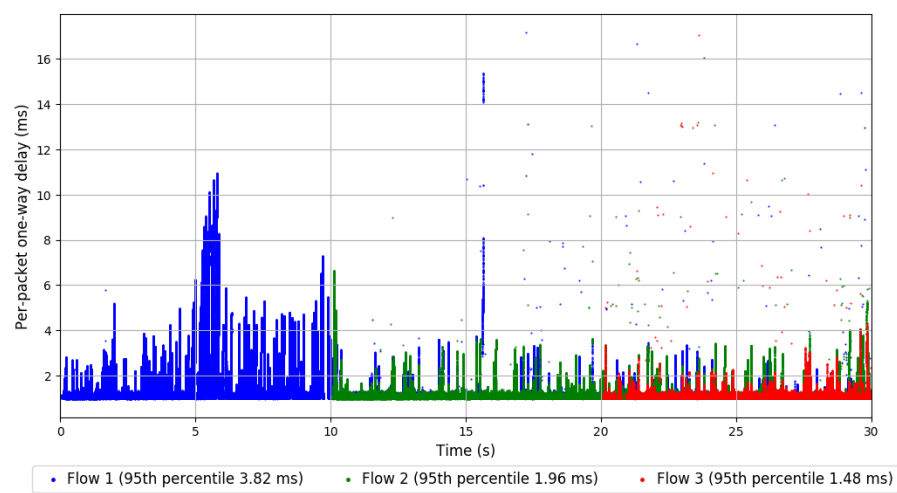
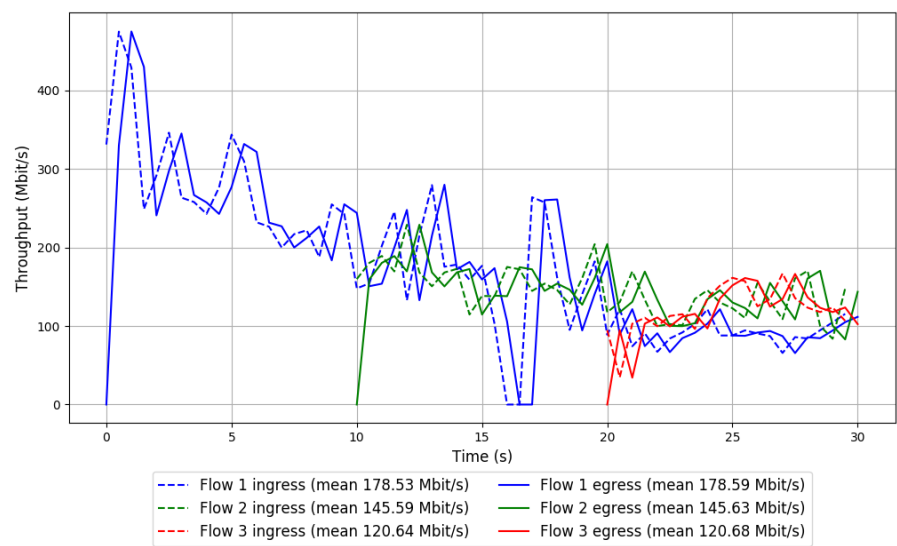
-- Flow 3:

Average throughput: 120.68 Mbit/s

95th percentile per-packet one-way delay: 1.476 ms

Loss rate: 0.18%

Run 6: Report of Verus — Data Link

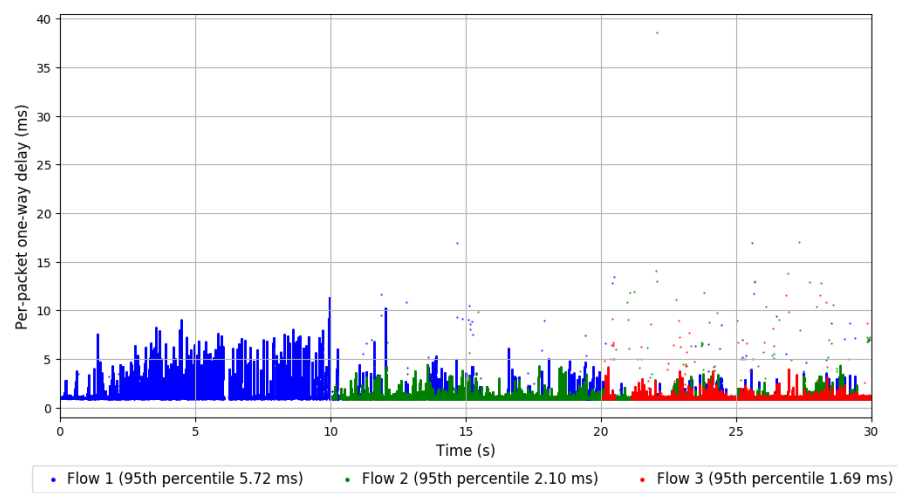
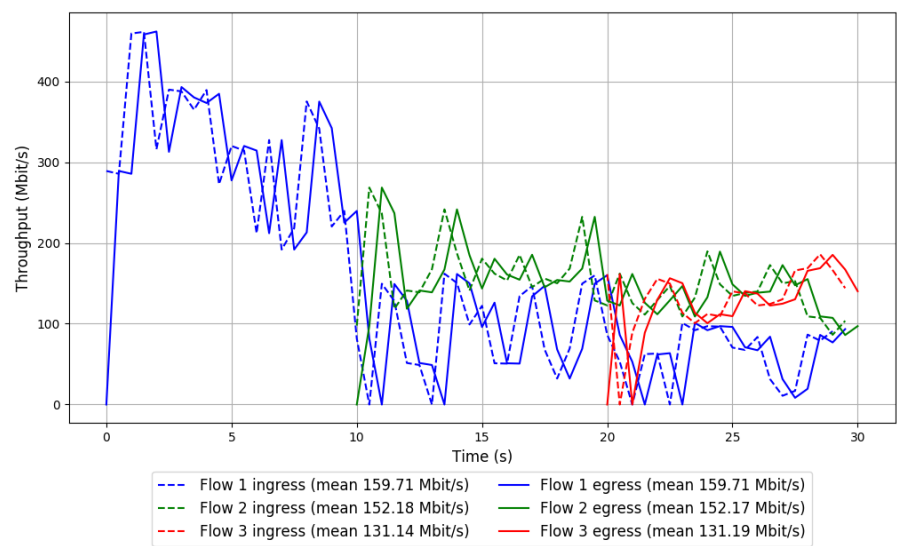


Run 7: Statistics of Verus

Start at: 2018-06-19 11:51:27
End at: 2018-06-19 11:51:57
Local clock offset: 3.535 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2018-06-19 15:18:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 301.92 Mbit/s
95th percentile per-packet one-way delay: 4.839 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 159.71 Mbit/s
95th percentile per-packet one-way delay: 5.725 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 152.17 Mbit/s
95th percentile per-packet one-way delay: 2.103 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 131.19 Mbit/s
95th percentile per-packet one-way delay: 1.689 ms
Loss rate: 0.16%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-19 12:16:41

End at: 2018-06-19 12:17:11

Local clock offset: 3.621 ms

Remote clock offset: 2.807 ms

Below is generated by plot.py at 2018-06-19 15:18:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.21 Mbit/s

95th percentile per-packet one-way delay: 3.295 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 210.52 Mbit/s

95th percentile per-packet one-way delay: 3.738 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 132.55 Mbit/s

95th percentile per-packet one-way delay: 2.143 ms

Loss rate: 0.07%

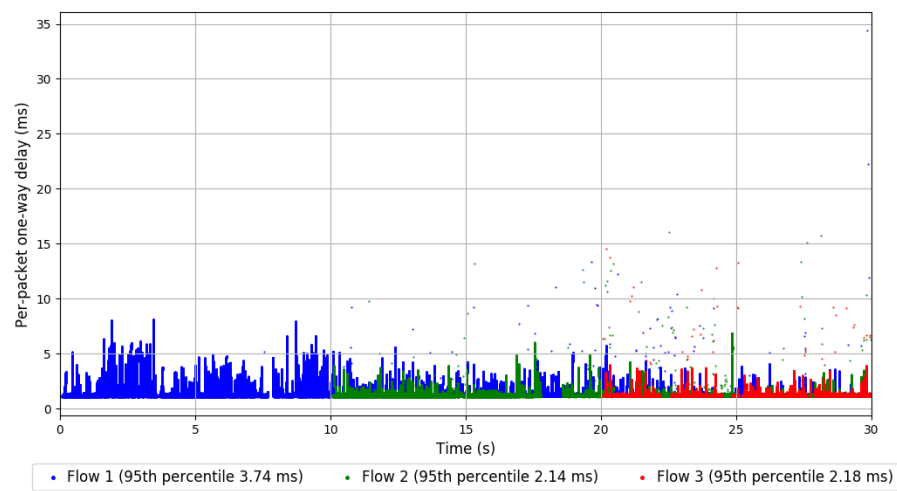
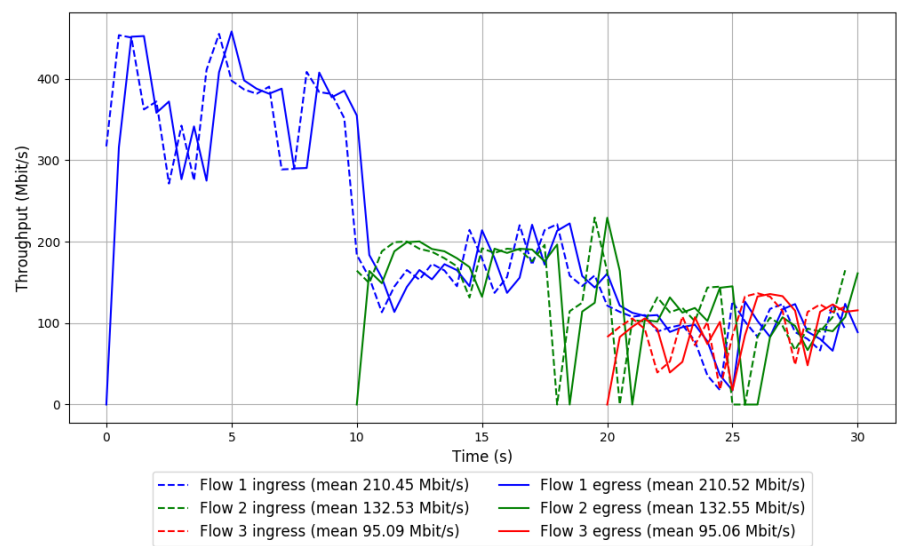
-- Flow 3:

Average throughput: 95.06 Mbit/s

95th percentile per-packet one-way delay: 2.181 ms

Loss rate: 0.25%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-19 12:42:04

End at: 2018-06-19 12:42:34

Local clock offset: 3.818 ms

Remote clock offset: 2.474 ms

Below is generated by plot.py at 2018-06-19 15:19:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 359.80 Mbit/s

95th percentile per-packet one-way delay: 4.066 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 201.69 Mbit/s

95th percentile per-packet one-way delay: 5.010 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 173.05 Mbit/s

95th percentile per-packet one-way delay: 2.014 ms

Loss rate: 0.01%

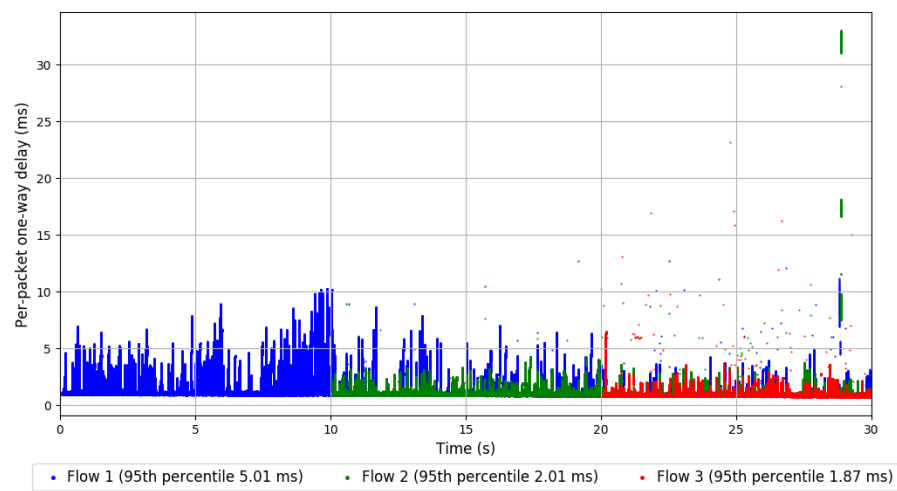
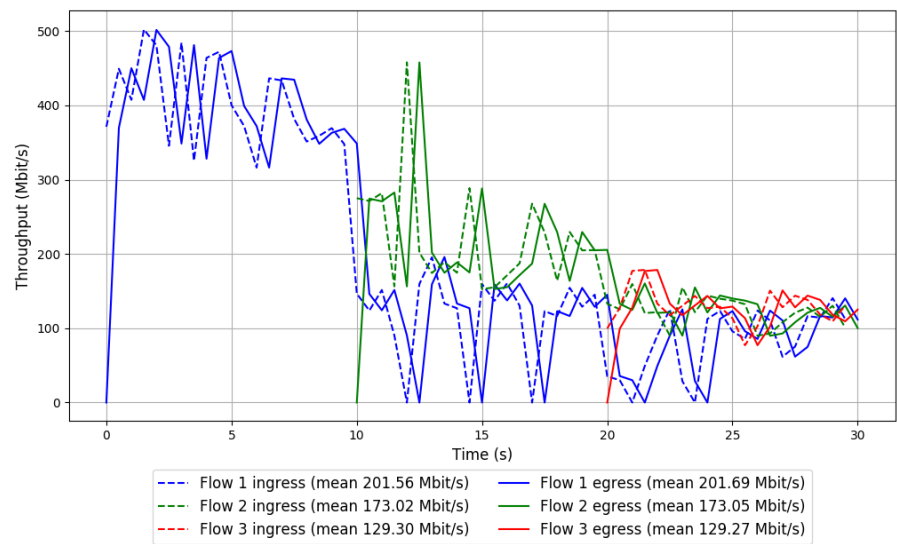
-- Flow 3:

Average throughput: 129.27 Mbit/s

95th percentile per-packet one-way delay: 1.866 ms

Loss rate: 0.22%

Run 9: Report of Verus — Data Link

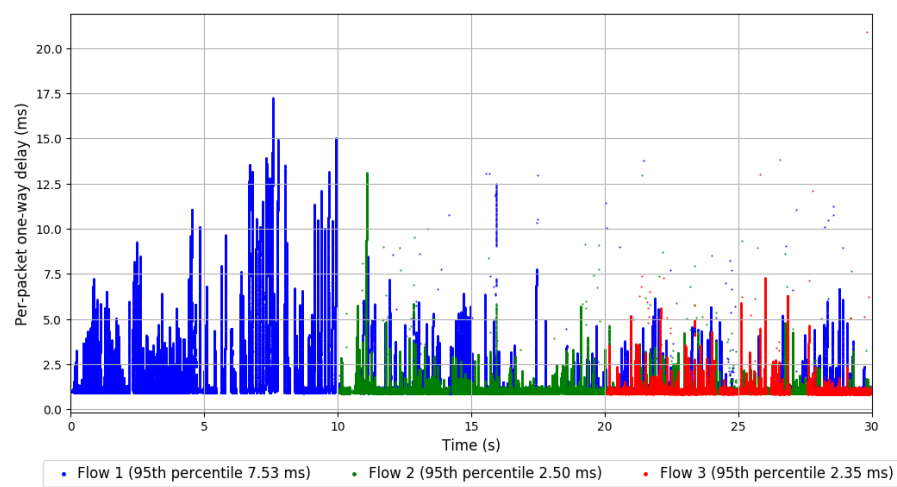
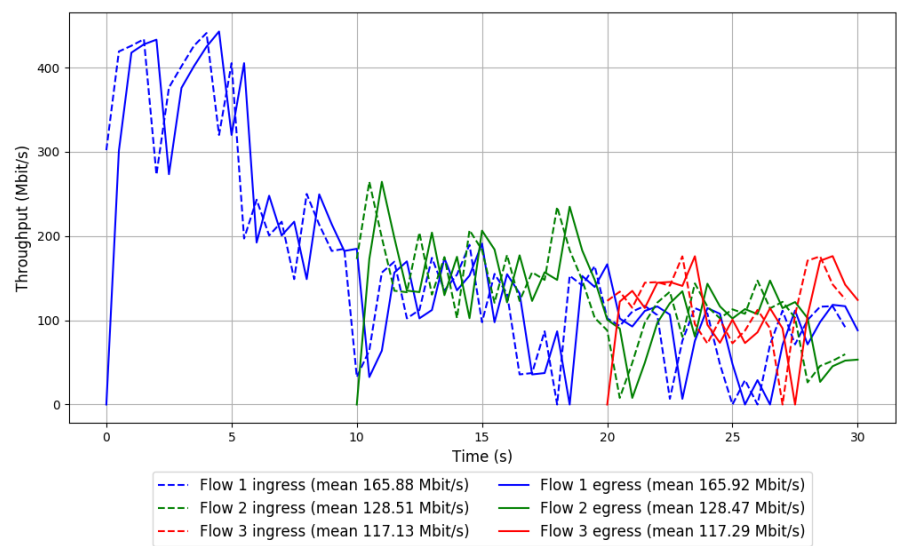


Run 10: Statistics of Verus

Start at: 2018-06-19 13:07:15
End at: 2018-06-19 13:07:45
Local clock offset: 4.058 ms
Remote clock offset: -1.024 ms

Below is generated by plot.py at 2018-06-19 15:19:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 290.34 Mbit/s
95th percentile per-packet one-way delay: 5.435 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 165.92 Mbit/s
95th percentile per-packet one-way delay: 7.525 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 128.47 Mbit/s
95th percentile per-packet one-way delay: 2.499 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 117.29 Mbit/s
95th percentile per-packet one-way delay: 2.353 ms
Loss rate: 0.06%

Run 10: Report of Verus — Data Link

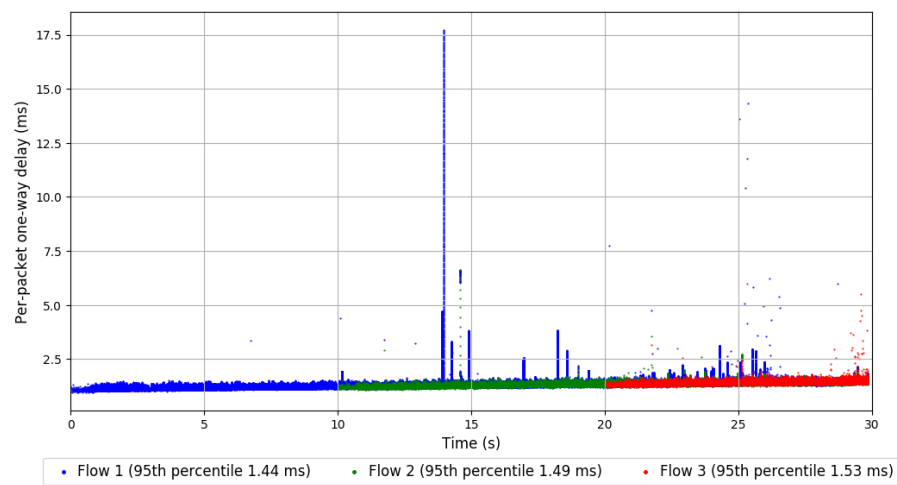
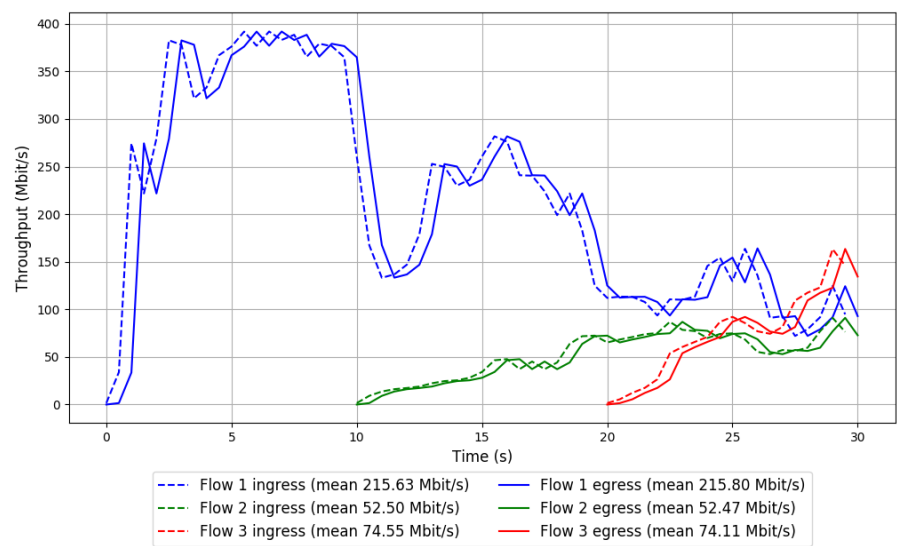


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-19 09:16:01
End at: 2018-06-19 09:16:31
Local clock offset: 3.569 ms
Remote clock offset: -1.955 ms

Below is generated by plot.py at 2018-06-19 15:19:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 275.05 Mbit/s
95th percentile per-packet one-way delay: 1.473 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 215.80 Mbit/s
95th percentile per-packet one-way delay: 1.444 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 52.47 Mbit/s
95th percentile per-packet one-way delay: 1.489 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 74.11 Mbit/s
95th percentile per-packet one-way delay: 1.534 ms
Loss rate: 0.82%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-19 09:41:11

End at: 2018-06-19 09:41:41

Local clock offset: 3.636 ms

Remote clock offset: 4.83 ms

Below is generated by plot.py at 2018-06-19 15:20:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.92 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 243.68 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 1.190 ms

Loss rate: 0.11%

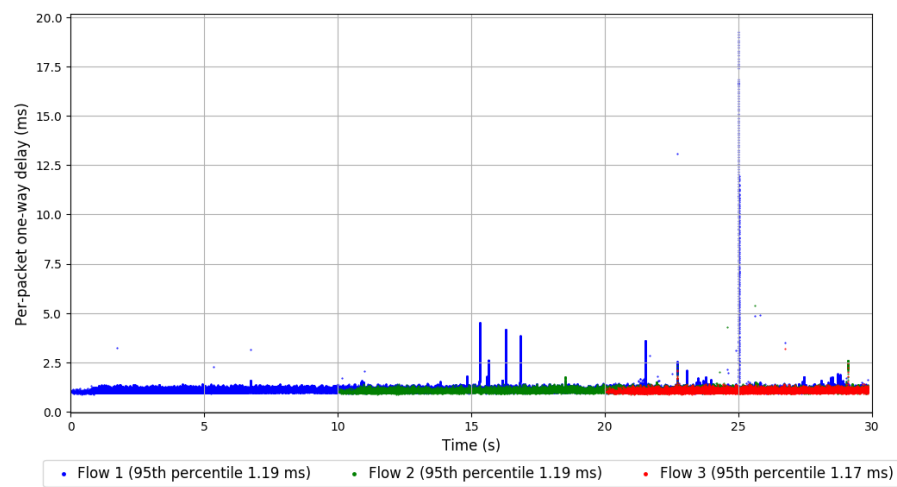
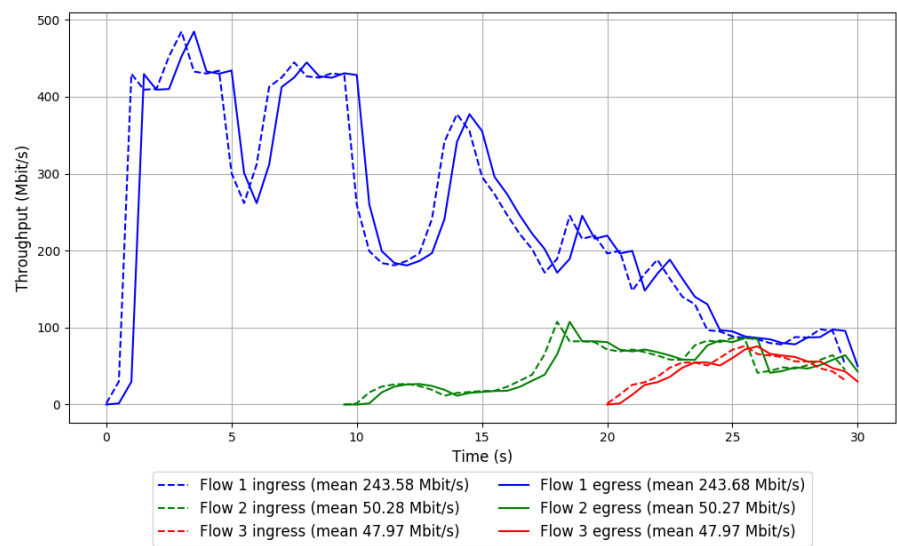
-- Flow 3:

Average throughput: 47.97 Mbit/s

95th percentile per-packet one-way delay: 1.166 ms

Loss rate: 0.19%

Run 2: Report of PCC-Vivace — Data Link

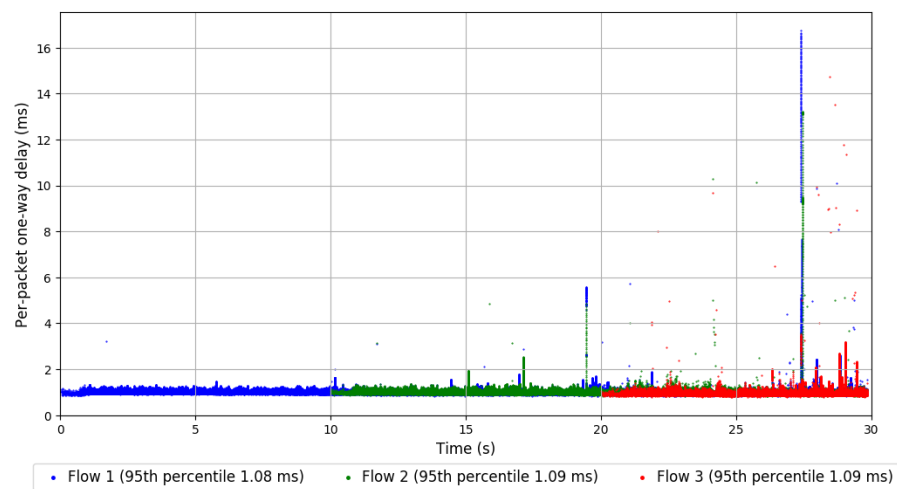
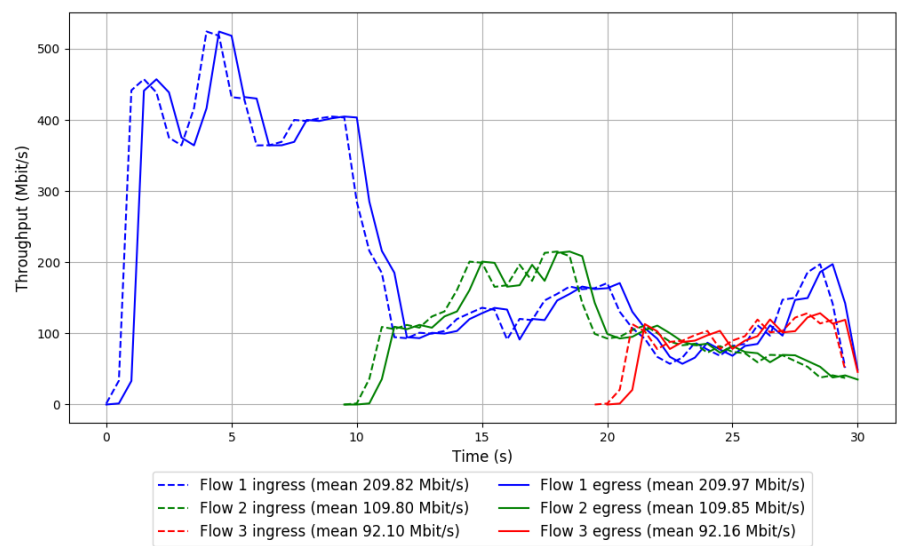


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-19 10:06:12
End at: 2018-06-19 10:06:42
Local clock offset: 3.719 ms
Remote clock offset: -0.312 ms

Below is generated by plot.py at 2018-06-19 15:22:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 313.40 Mbit/s
95th percentile per-packet one-way delay: 1.086 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 209.97 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 109.85 Mbit/s
95th percentile per-packet one-way delay: 1.094 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 92.16 Mbit/s
95th percentile per-packet one-way delay: 1.087 ms
Loss rate: 0.15%

Run 3: Report of PCC-Vivace — Data Link

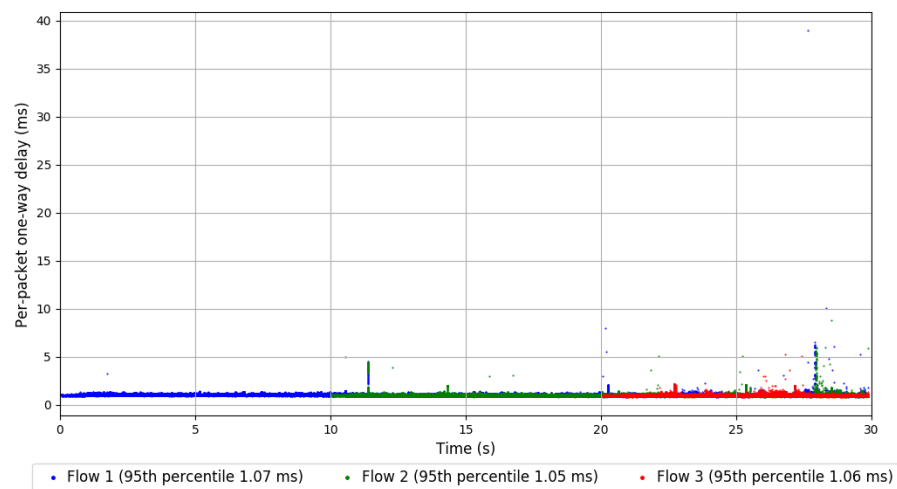
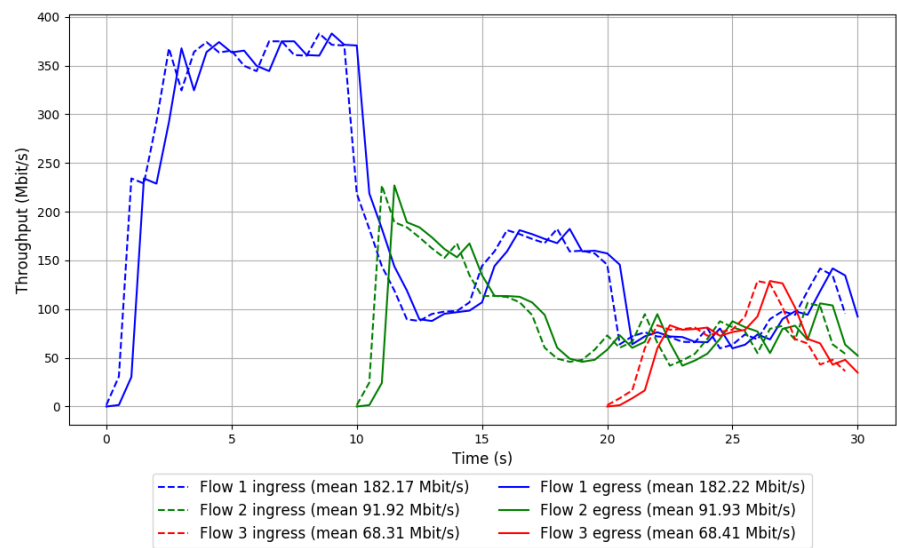


Run 4: Statistics of PCC-Vivace

Start at: 2018-06-19 10:31:14
End at: 2018-06-19 10:31:44
Local clock offset: 3.727 ms
Remote clock offset: -3.222 ms

Below is generated by plot.py at 2018-06-19 15:22:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 265.83 Mbit/s
95th percentile per-packet one-way delay: 1.069 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 182.22 Mbit/s
95th percentile per-packet one-way delay: 1.075 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 91.93 Mbit/s
95th percentile per-packet one-way delay: 1.050 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 68.41 Mbit/s
95th percentile per-packet one-way delay: 1.058 ms
Loss rate: 0.12%

Run 4: Report of PCC-Vivace — Data Link

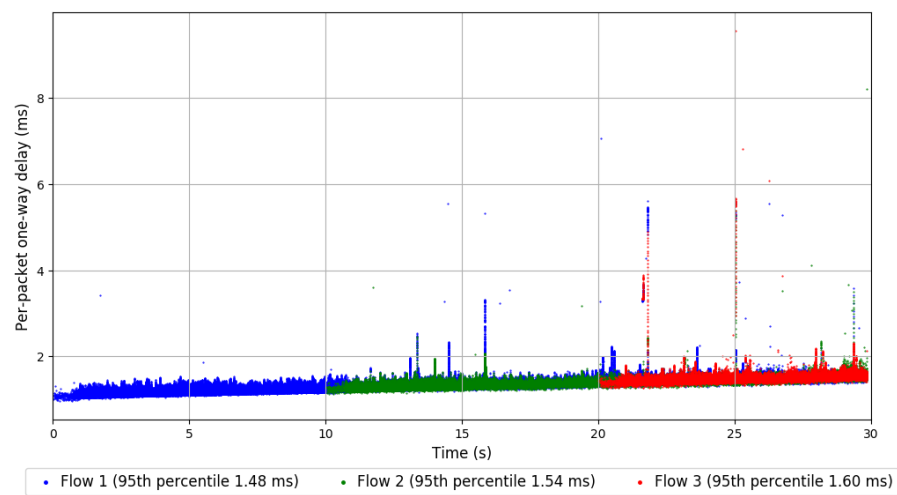
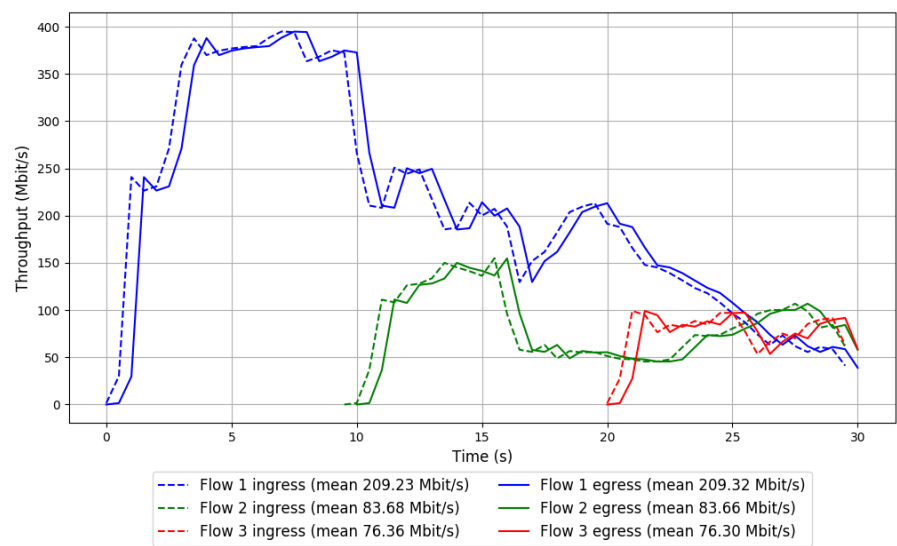


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-19 10:56:27
End at: 2018-06-19 10:56:57
Local clock offset: 3.589 ms
Remote clock offset: -4.207 ms

Below is generated by plot.py at 2018-06-19 15:22:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 290.06 Mbit/s
95th percentile per-packet one-way delay: 1.522 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 209.32 Mbit/s
95th percentile per-packet one-way delay: 1.480 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 83.66 Mbit/s
95th percentile per-packet one-way delay: 1.543 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 76.30 Mbit/s
95th percentile per-packet one-way delay: 1.600 ms
Loss rate: 0.27%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-19 11:21:41

End at: 2018-06-19 11:22:11

Local clock offset: 3.702 ms

Remote clock offset: 3.798 ms

Below is generated by plot.py at 2018-06-19 15:22:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 261.81 Mbit/s

95th percentile per-packet one-way delay: 1.162 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 195.52 Mbit/s

95th percentile per-packet one-way delay: 1.152 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 61.17 Mbit/s

95th percentile per-packet one-way delay: 1.177 ms

Loss rate: 0.23%

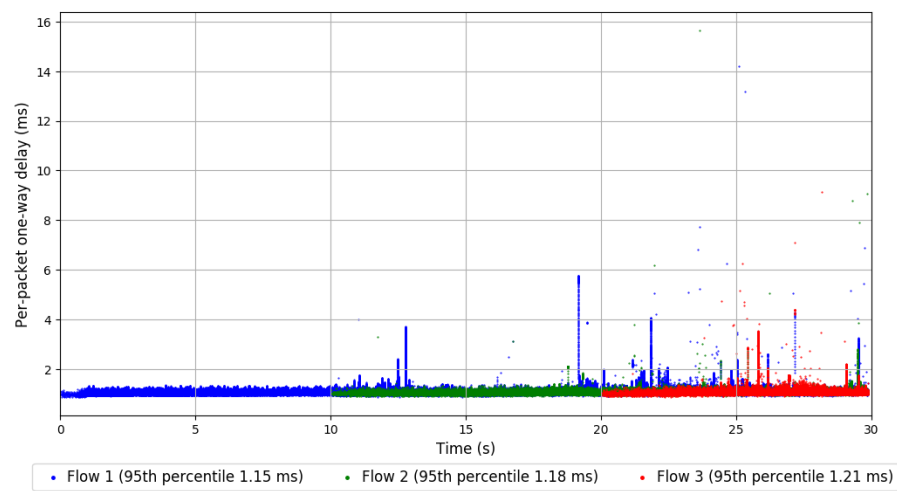
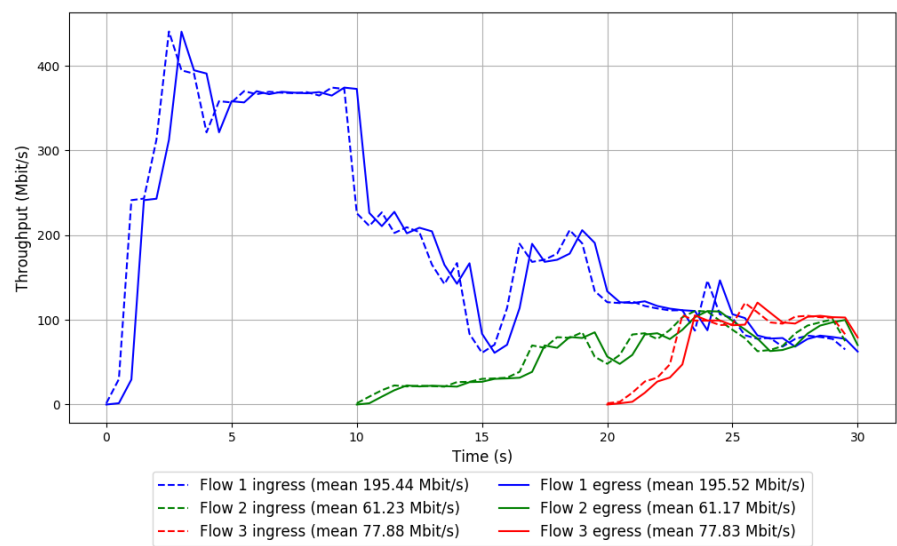
-- Flow 3:

Average throughput: 77.83 Mbit/s

95th percentile per-packet one-way delay: 1.208 ms

Loss rate: 0.24%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-19 11:46:47

End at: 2018-06-19 11:47:17

Local clock offset: 3.542 ms

Remote clock offset: 0.278 ms

Below is generated by plot.py at 2018-06-19 15:22:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.74 Mbit/s

95th percentile per-packet one-way delay: 1.013 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 182.24 Mbit/s

95th percentile per-packet one-way delay: 1.014 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 112.21 Mbit/s

95th percentile per-packet one-way delay: 1.015 ms

Loss rate: 0.04%

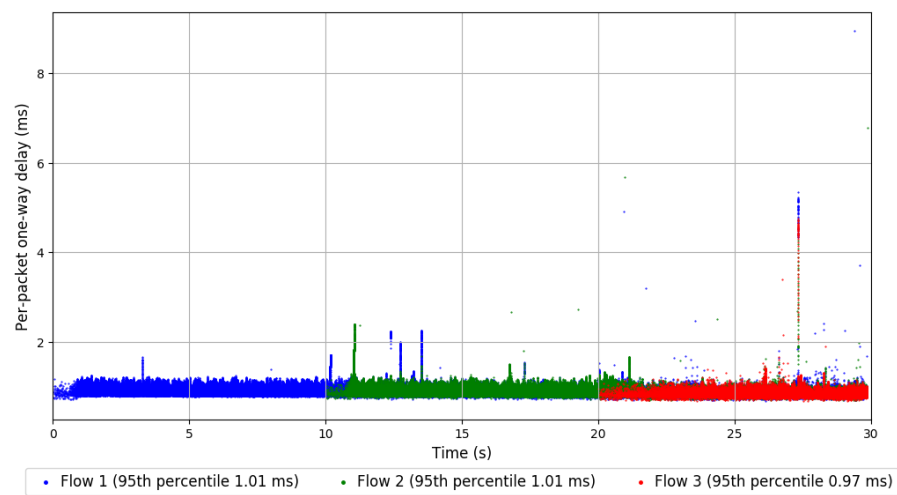
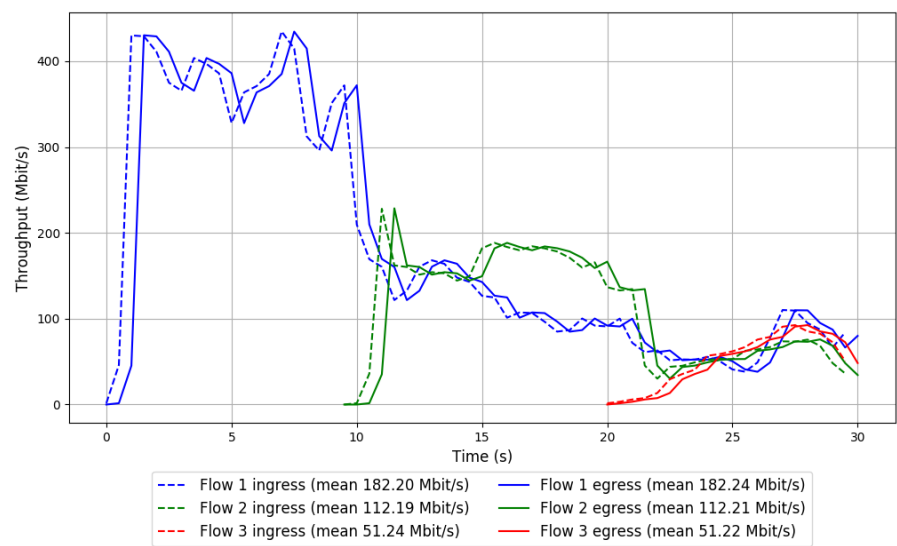
-- Flow 3:

Average throughput: 51.22 Mbit/s

95th percentile per-packet one-way delay: 0.973 ms

Loss rate: 0.24%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-19 12:12:01

End at: 2018-06-19 12:12:31

Local clock offset: 3.623 ms

Remote clock offset: 2.08 ms

Below is generated by plot.py at 2018-06-19 15:22:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 251.10 Mbit/s

95th percentile per-packet one-way delay: 1.199 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 173.98 Mbit/s

95th percentile per-packet one-way delay: 1.193 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 89.42 Mbit/s

95th percentile per-packet one-way delay: 1.203 ms

Loss rate: 0.04%

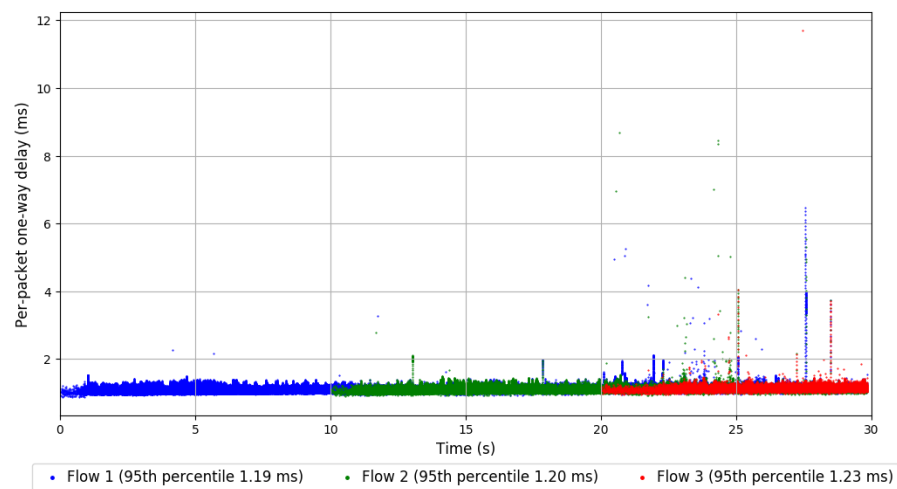
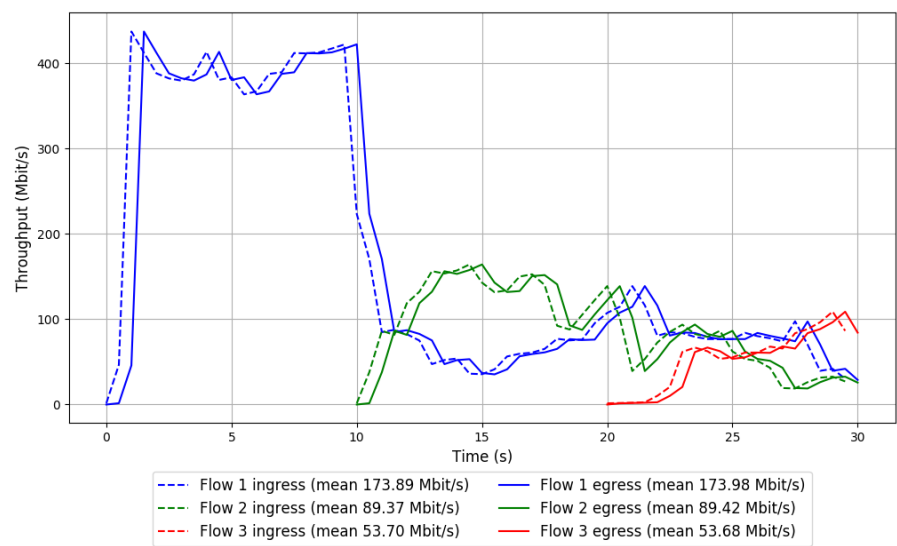
-- Flow 3:

Average throughput: 53.68 Mbit/s

95th percentile per-packet one-way delay: 1.231 ms

Loss rate: 0.23%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-19 12:37:23

End at: 2018-06-19 12:37:53

Local clock offset: 3.726 ms

Remote clock offset: 4.603 ms

Below is generated by plot.py at 2018-06-19 15:22:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.59 Mbit/s

95th percentile per-packet one-way delay: 1.086 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 224.76 Mbit/s

95th percentile per-packet one-way delay: 1.096 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 123.55 Mbit/s

95th percentile per-packet one-way delay: 1.050 ms

Loss rate: 0.06%

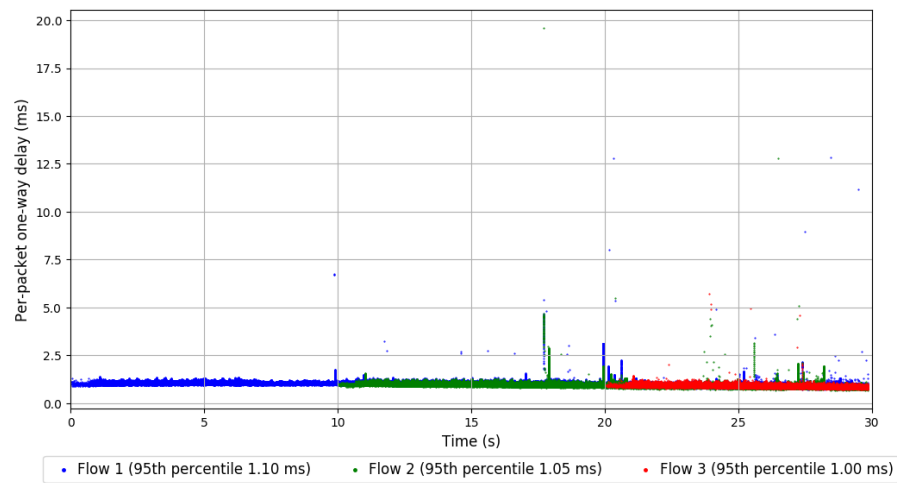
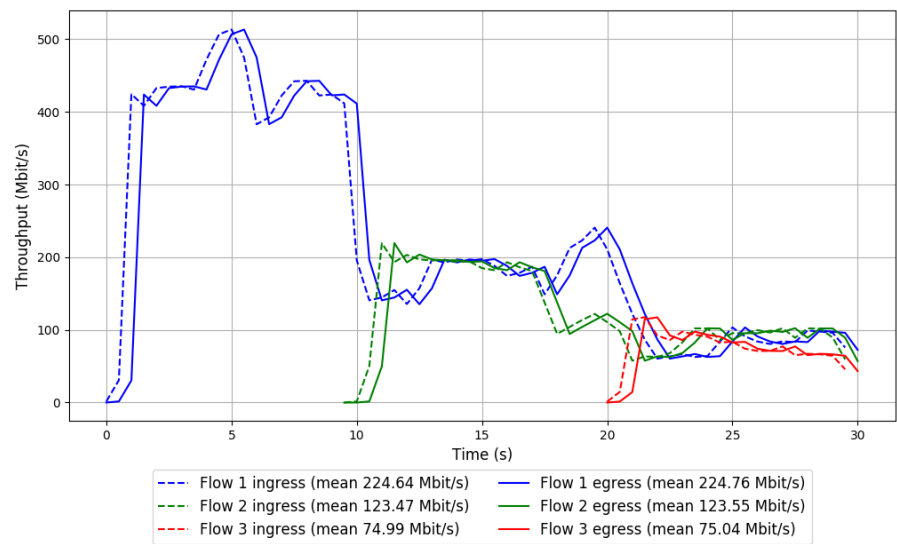
-- Flow 3:

Average throughput: 75.04 Mbit/s

95th percentile per-packet one-way delay: 1.005 ms

Loss rate: 0.17%

Run 9: Report of PCC-Vivace — Data Link

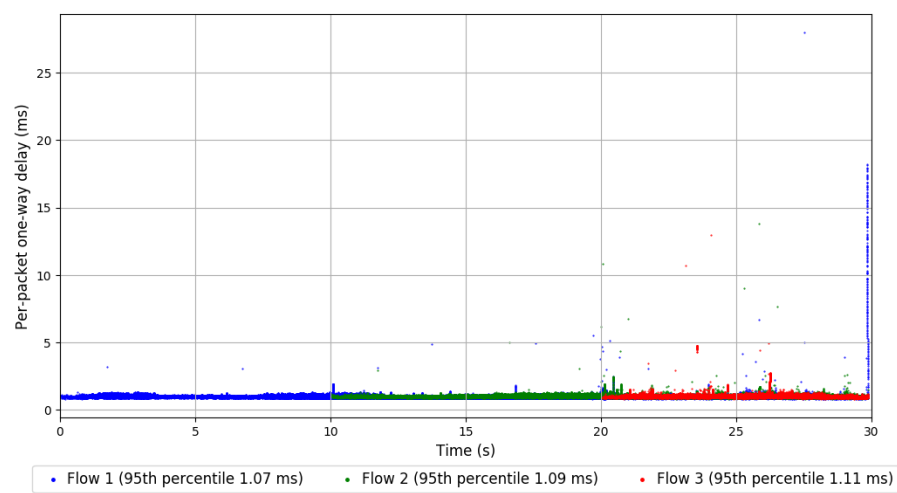
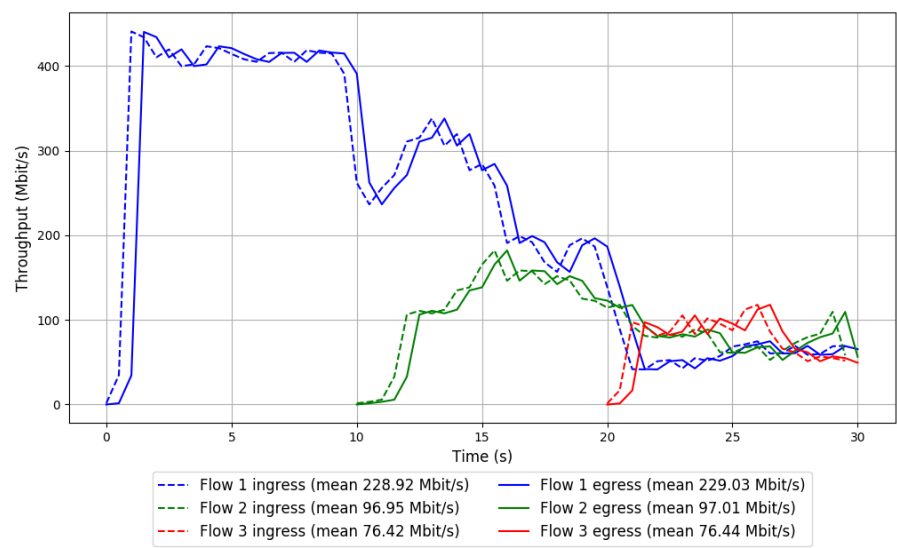


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-19 13:02:34
End at: 2018-06-19 13:03:04
Local clock offset: 3.981 ms
Remote clock offset: -0.711 ms

Below is generated by plot.py at 2018-06-19 15:22:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 318.68 Mbit/s
95th percentile per-packet one-way delay: 1.075 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 229.03 Mbit/s
95th percentile per-packet one-way delay: 1.066 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 97.01 Mbit/s
95th percentile per-packet one-way delay: 1.090 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 76.44 Mbit/s
95th percentile per-packet one-way delay: 1.108 ms
Loss rate: 0.17%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-06-19 09:02:59

End at: 2018-06-19 09:03:29

Local clock offset: 3.606 ms

Remote clock offset: -3.87 ms

Below is generated by plot.py at 2018-06-19 15:22:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 1.175 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 1.171 ms

Loss rate: 0.00%

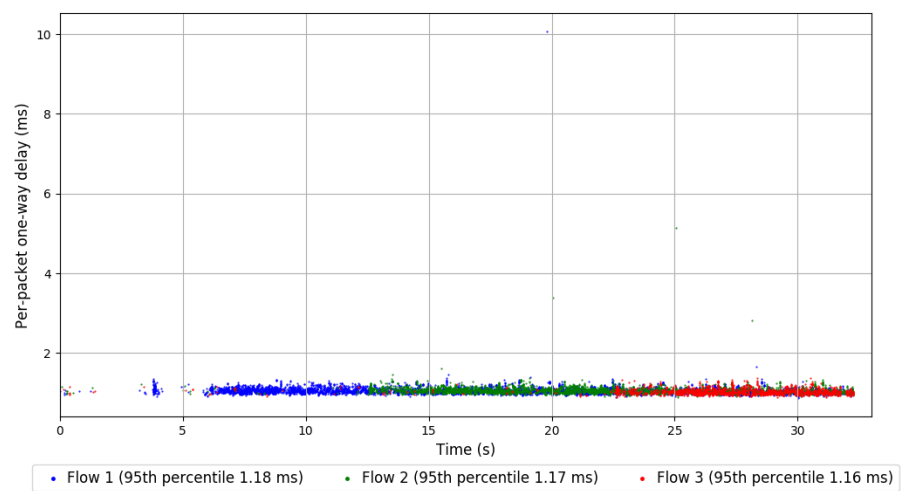
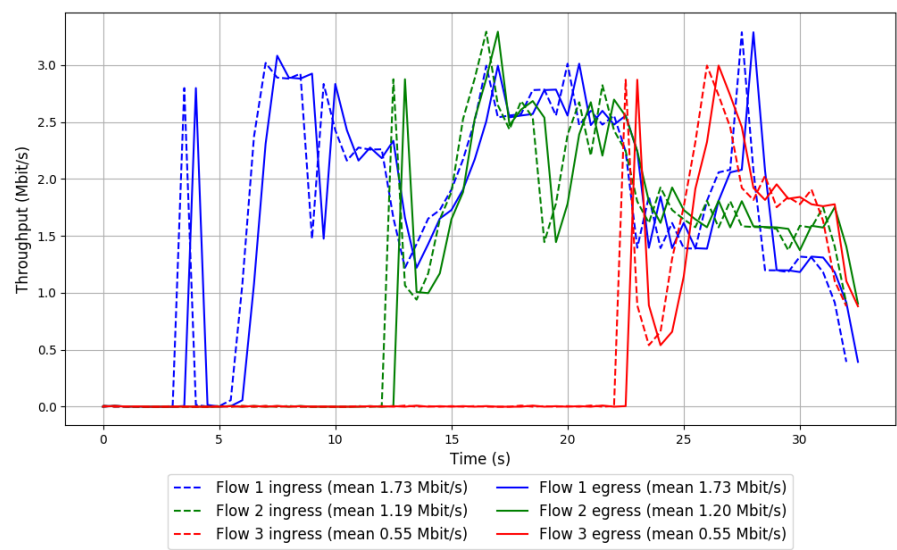
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 1.163 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-19 09:28:13

End at: 2018-06-19 09:28:43

Local clock offset: 3.441 ms

Remote clock offset: 2.75 ms

Below is generated by plot.py at 2018-06-19 15:22:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 1.284 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 1.271 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 1.294 ms

Loss rate: 0.00%

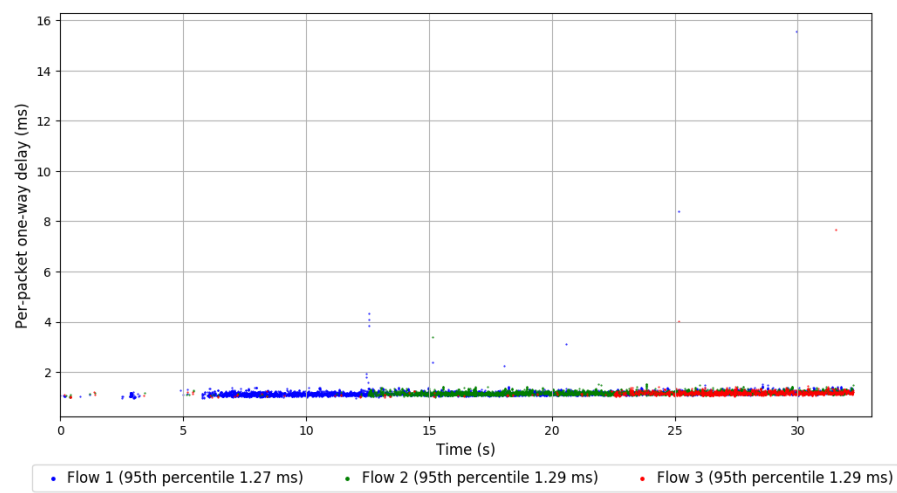
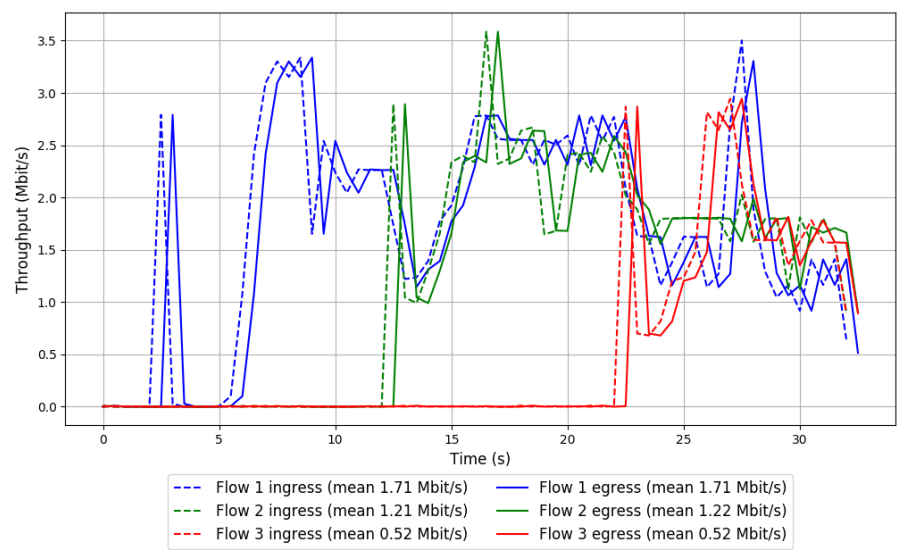
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 1.286 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-19 09:53:22

End at: 2018-06-19 09:53:52

Local clock offset: 3.618 ms

Remote clock offset: 2.204 ms

Below is generated by plot.py at 2018-06-19 15:22:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 0.988 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 0.986 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 1.008 ms

Loss rate: 0.13%

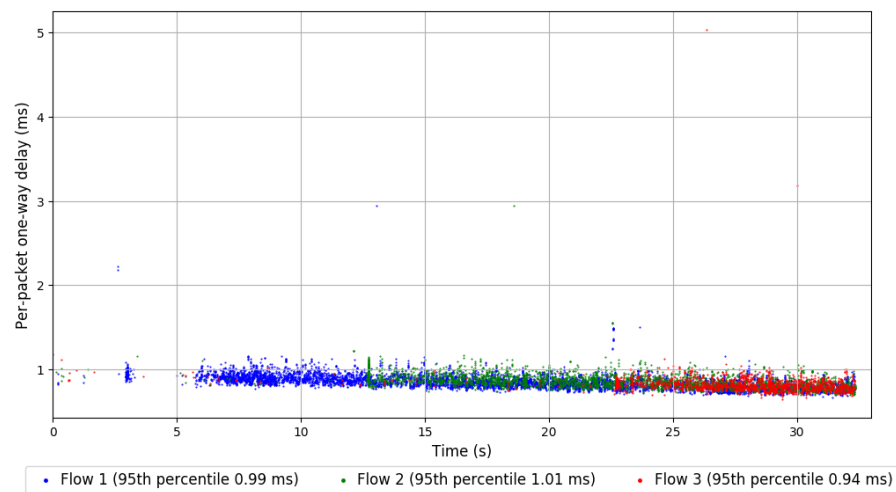
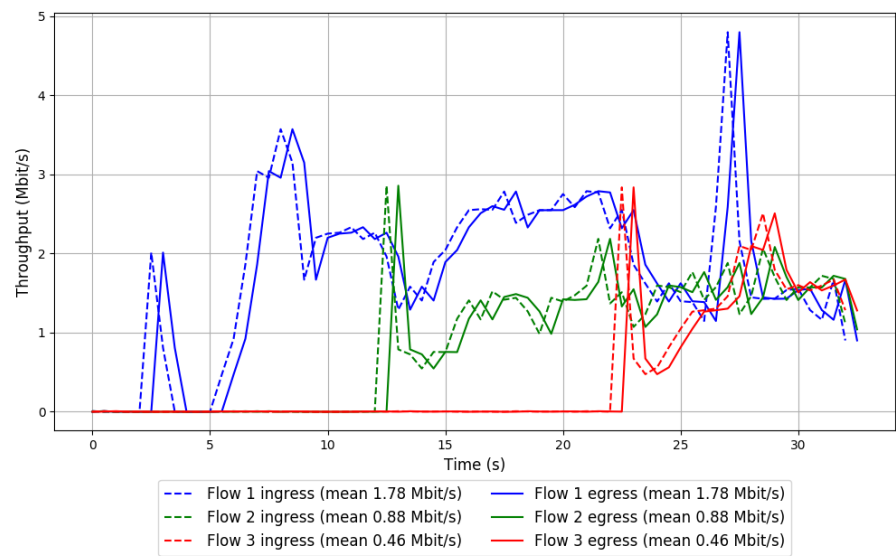
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 0.942 ms

Loss rate: 0.01%

Run 3: Report of WebRTC media — Data Link

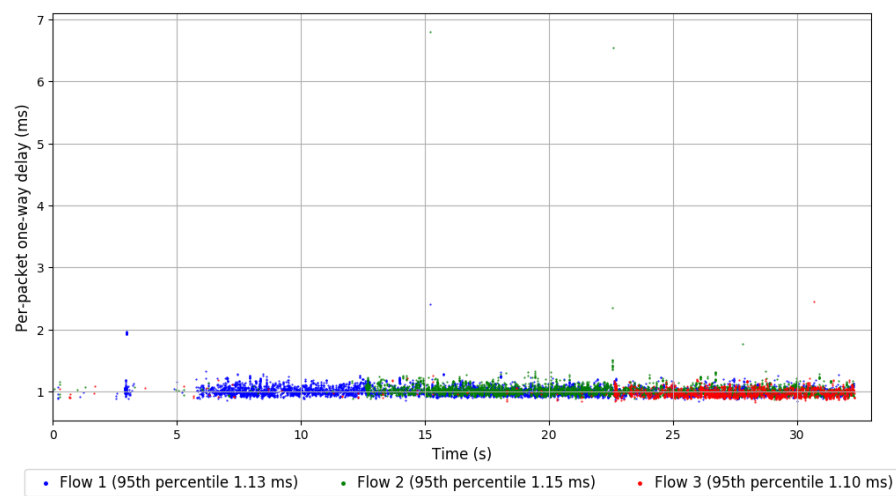
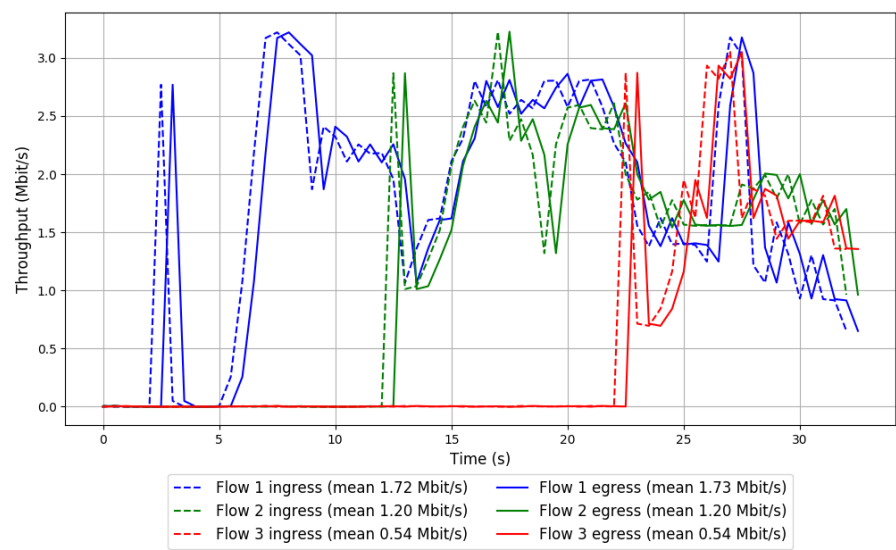


Run 4: Statistics of WebRTC media

Start at: 2018-06-19 10:18:25
End at: 2018-06-19 10:18:55
Local clock offset: 3.586 ms
Remote clock offset: -1.326 ms

Below is generated by plot.py at 2018-06-19 15:22:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 1.131 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 1.131 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 1.148 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 1.096 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

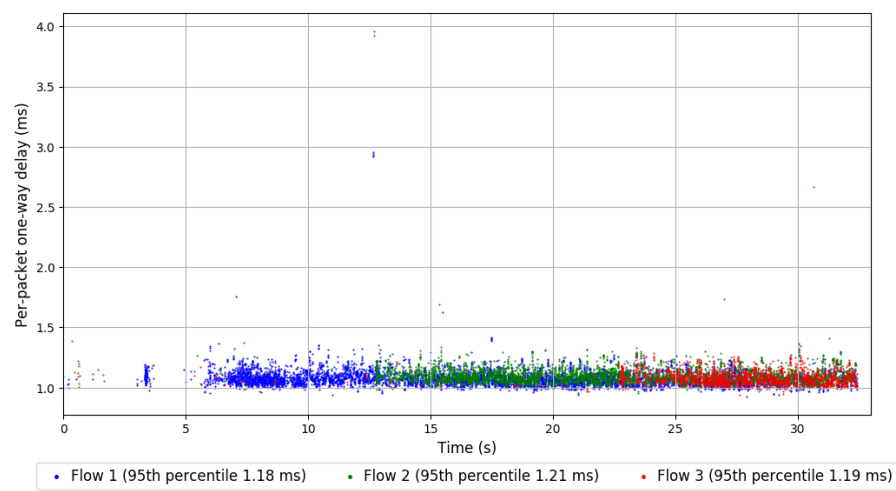
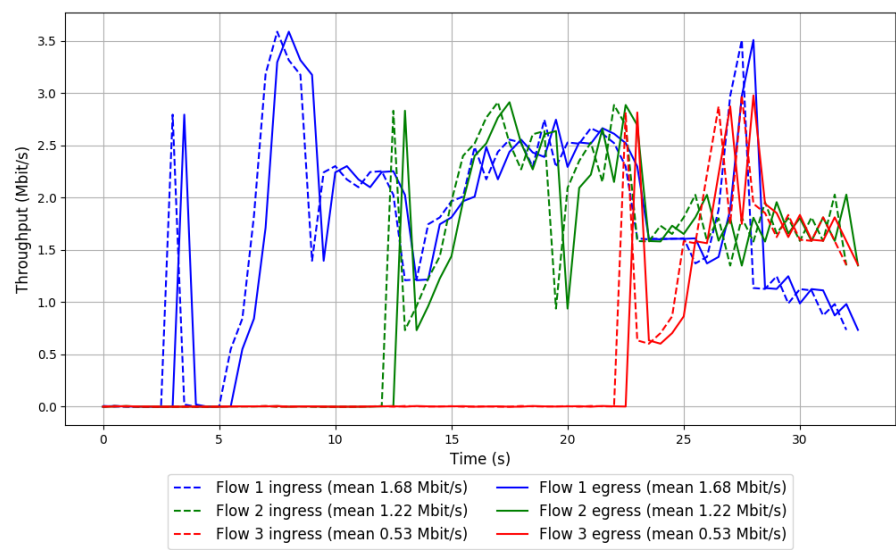


Run 5: Statistics of WebRTC media

Start at: 2018-06-19 10:43:26
End at: 2018-06-19 10:43:56
Local clock offset: 3.637 ms
Remote clock offset: -4.487 ms

Below is generated by plot.py at 2018-06-19 15:22:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 1.194 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 1.191 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-19 11:08:41

End at: 2018-06-19 11:09:11

Local clock offset: 3.641 ms

Remote clock offset: 1.719 ms

Below is generated by plot.py at 2018-06-19 15:22:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 1.370 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 1.366 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 1.371 ms

Loss rate: 0.21%

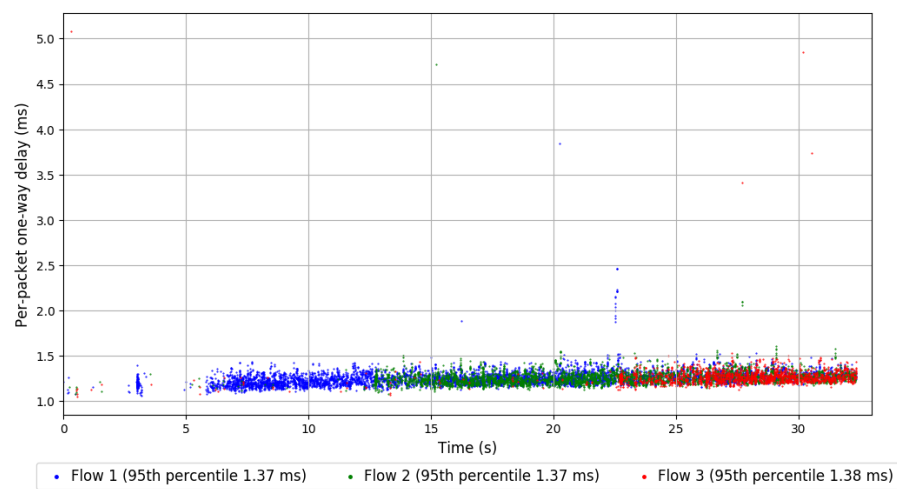
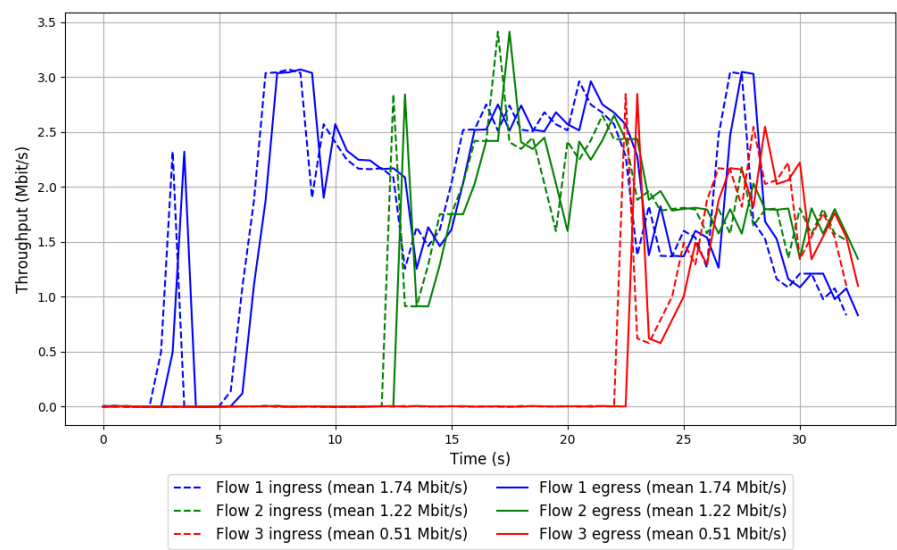
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 1.376 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-19 11:33:57

End at: 2018-06-19 11:34:27

Local clock offset: 3.752 ms

Remote clock offset: 2.582 ms

Below is generated by plot.py at 2018-06-19 15:22:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 0.980 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 0.991 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 0.973 ms

Loss rate: 0.28%

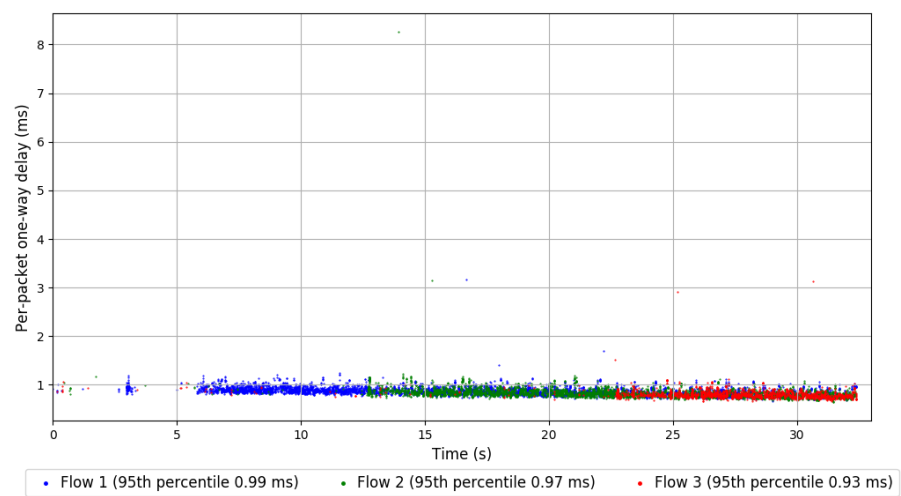
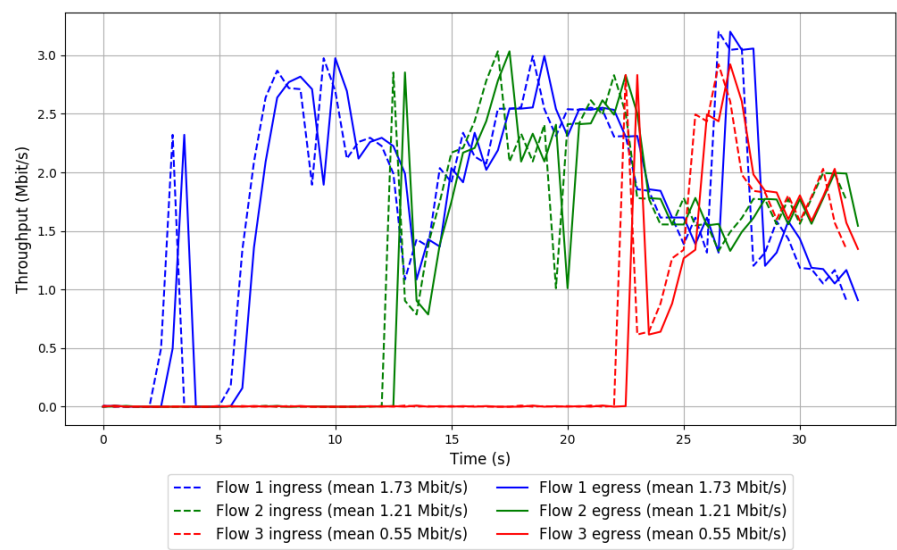
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 0.928 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-19 11:59:00

End at: 2018-06-19 11:59:30

Local clock offset: 3.623 ms

Remote clock offset: -0.42 ms

Below is generated by plot.py at 2018-06-19 15:22:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 1.223 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 1.219 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 1.216 ms

Loss rate: 0.02%

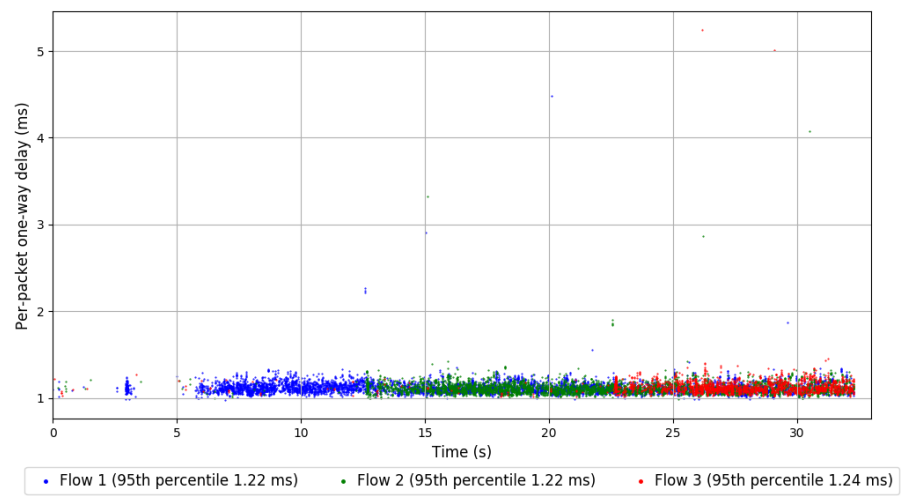
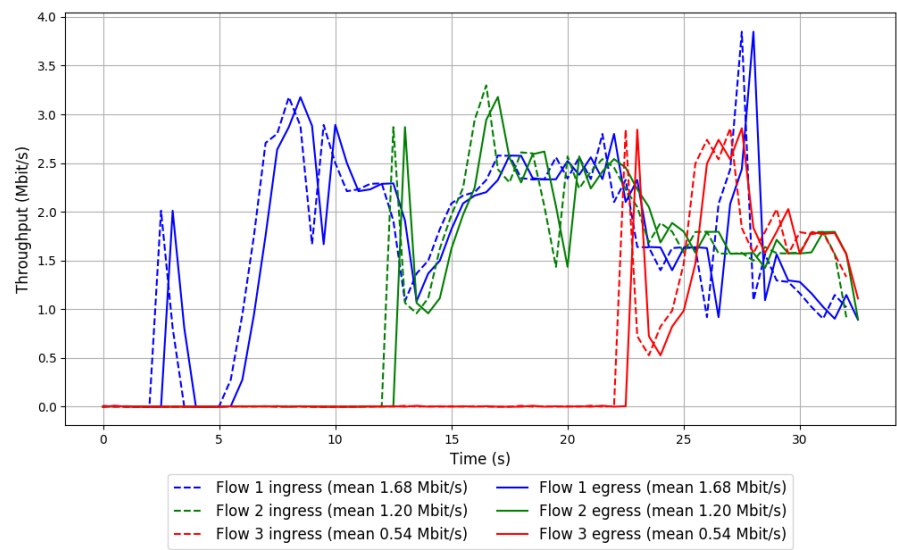
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 1.236 ms

Loss rate: 0.63%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-19 12:24:18

End at: 2018-06-19 12:24:48

Local clock offset: 3.544 ms

Remote clock offset: 3.669 ms

Below is generated by plot.py at 2018-06-19 15:22:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 1.108 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.29%

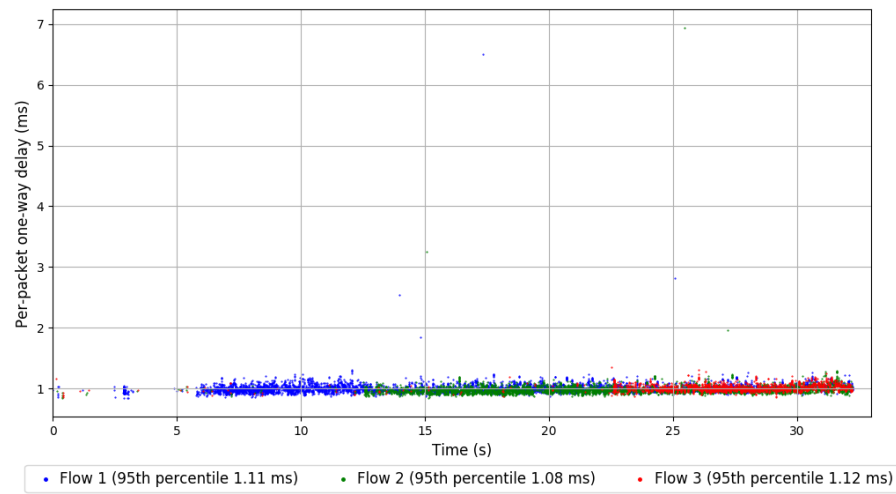
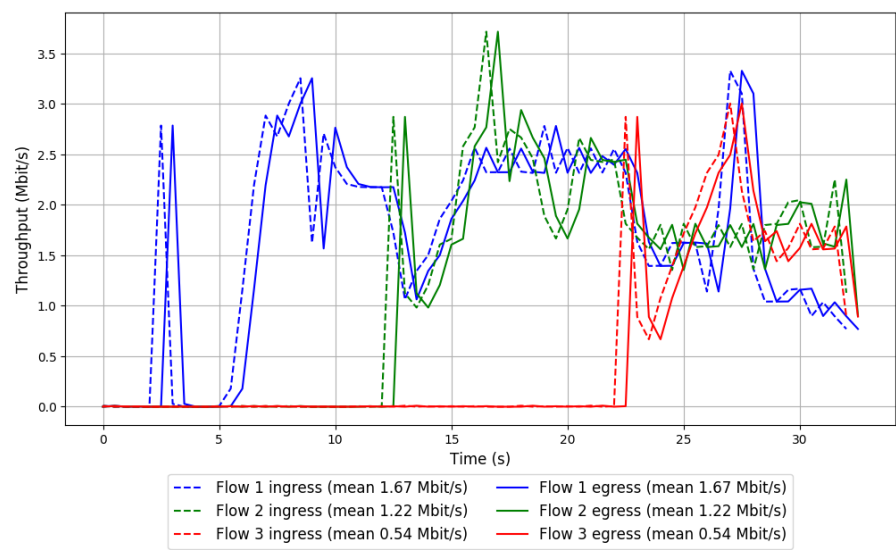
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-19 12:49:41

End at: 2018-06-19 12:50:11

Local clock offset: 3.873 ms

Remote clock offset: 0.519 ms

Below is generated by plot.py at 2018-06-19 15:22:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 1.083 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 1.097 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 1.081 ms

Loss rate: 0.10%

-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 1.036 ms

Loss rate: 0.64%

Run 10: Report of WebRTC media — Data Link

