

Pantheon Report

Generated at 2018-06-18 20:17:57 (UTC).

Data path: AWS California 2 Ethernet (*local*) → Mexico Ethernet (*remote*).

Repeated the test of 16 congestion control schemes 10 times.

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

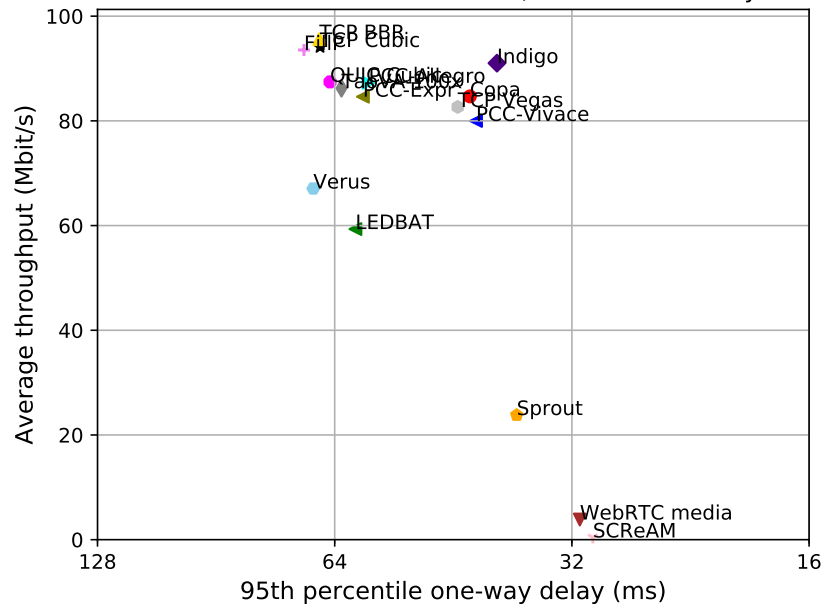
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

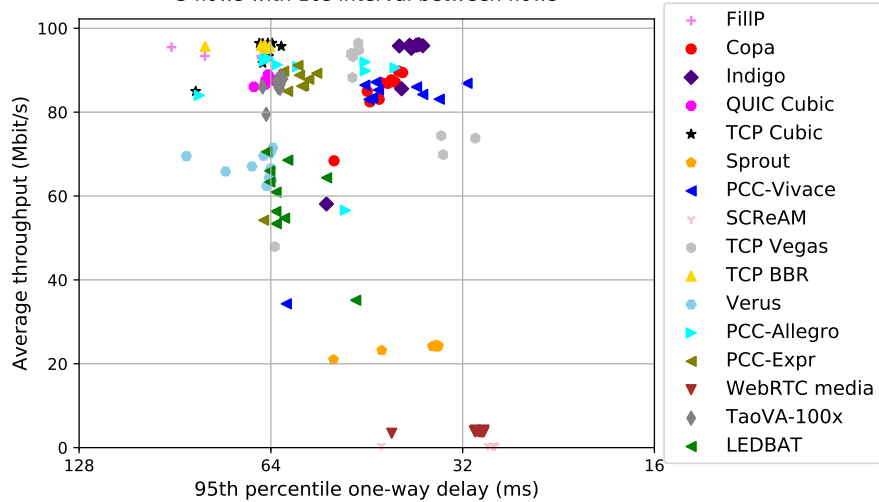
Git summary:

```
branch: master @ 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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS California 2 to Mexico, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 2 to Mexico, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



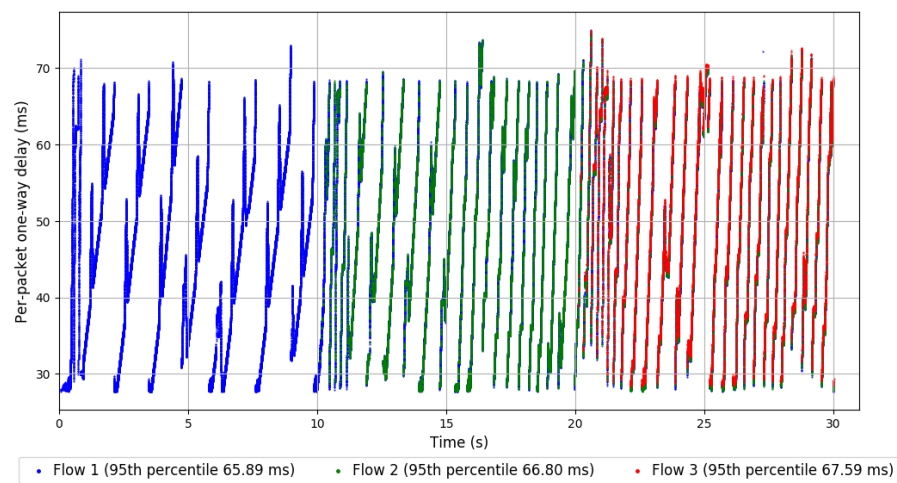
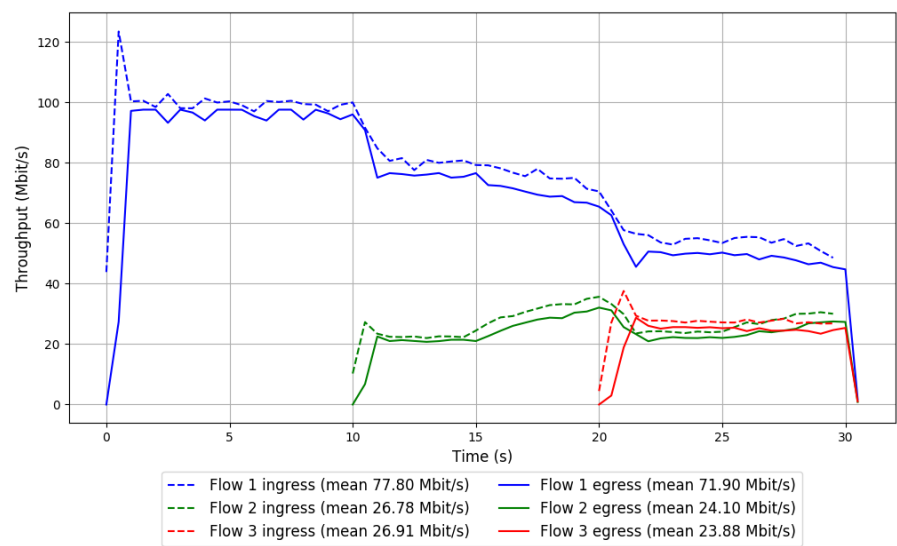
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	62.59	36.48	26.77	66.50	67.55	67.39	7.66	10.67	11.81
Copa	10	60.32	25.50	22.18	45.23	38.59	39.36	0.44	0.22	0.13
TCP Cubic	10	63.80	32.08	26.97	66.27	66.81	65.46	0.72	0.63	0.90
FillP	10	60.01	37.65	25.86	69.26	70.84	70.82	20.05	34.50	37.81
Indigo	10	62.43	24.84	37.04	38.68	41.66	42.64	0.04	0.10	0.06
LEDBAT	10	35.55	26.37	19.24	59.39	61.22	53.80	0.24	0.18	0.30
PCC-Allegro	10	70.96	20.76	7.61	57.18	59.24	57.74	4.43	6.12	5.35
PCC-Expr	10	58.21	33.52	12.41	56.93	60.54	61.74	1.17	1.15	1.32
QUIC Cubic	10	62.13	27.75	20.93	64.35	65.43	65.39	1.94	1.19	1.22
SCReAM	10	0.21	0.21	0.22	29.97	29.95	29.61	0.10	0.07	0.05
Sprout	10	12.08	11.91	11.53	37.37	37.63	38.08	0.04	0.03	0.04
TaoVA-100x	10	51.15	38.32	28.94	60.36	63.72	65.92	13.92	24.21	18.23
TCP Vegas	10	53.17	25.81	37.02	45.03	41.00	41.75	0.62	0.20	0.43
Verus	10	38.04	33.12	23.21	67.43	68.55	67.65	35.99	38.53	40.72
PCC-Vivace	10	58.14	23.63	18.56	42.15	43.40	46.29	0.12	0.23	0.42
WebRTC media	10	2.06	1.32	0.48	30.79	31.30	32.22	0.03	0.01	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-06-18 16:20:03
End at: 2018-06-18 16:20:33
Local clock offset: -2.792 ms
Remote clock offset: -2.336 ms

Below is generated by plot.py at 2018-06-18 19:55:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 66.334 ms
Loss rate: 8.32%
-- Flow 1:
Average throughput: 71.90 Mbit/s
95th percentile per-packet one-way delay: 65.892 ms
Loss rate: 7.58%
-- Flow 2:
Average throughput: 24.10 Mbit/s
95th percentile per-packet one-way delay: 66.804 ms
Loss rate: 10.02%
-- Flow 3:
Average throughput: 23.88 Mbit/s
95th percentile per-packet one-way delay: 67.589 ms
Loss rate: 11.34%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-18 16:41:22

End at: 2018-06-18 16:41:52

Local clock offset: -0.836 ms

Remote clock offset: -2.66 ms

Below is generated by plot.py at 2018-06-18 19:55:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.69 Mbit/s

95th percentile per-packet one-way delay: 81.181 ms

Loss rate: 9.78%

-- Flow 1:

Average throughput: 55.23 Mbit/s

95th percentile per-packet one-way delay: 80.803 ms

Loss rate: 7.75%

-- Flow 2:

Average throughput: 51.46 Mbit/s

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

Loss rate: 12.73%

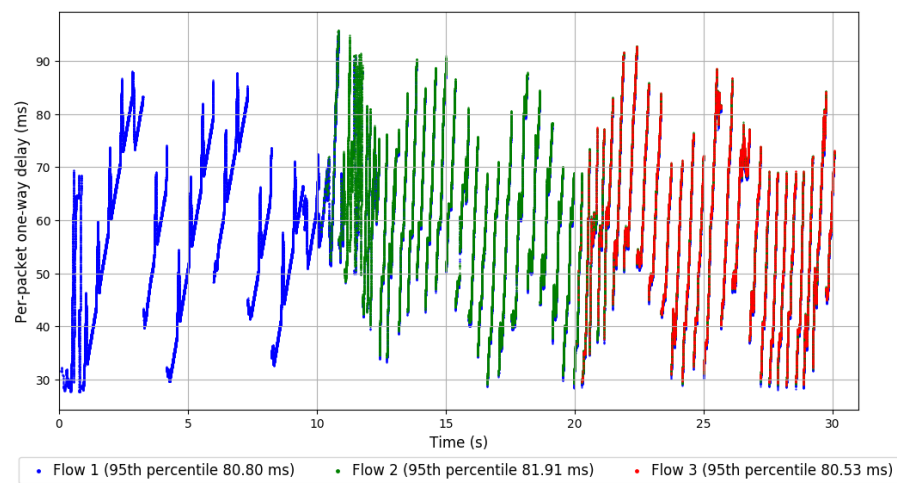
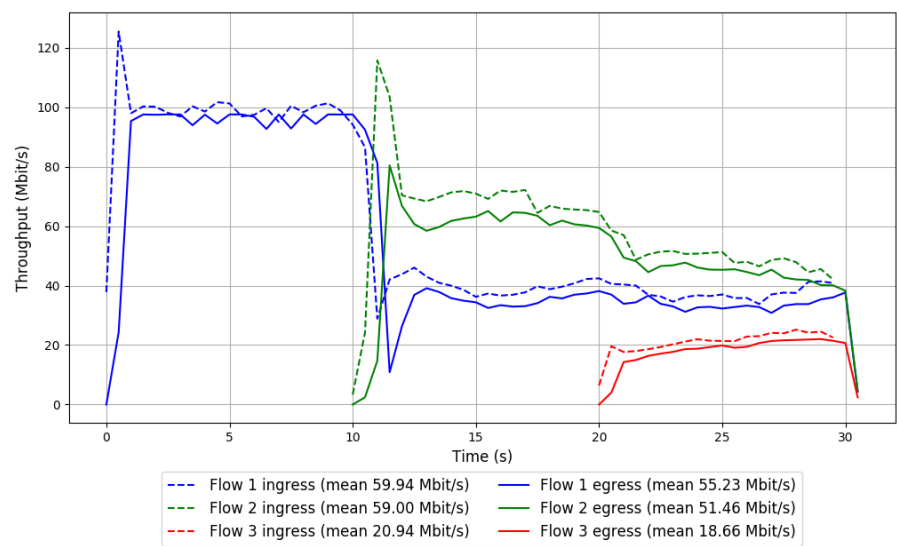
-- Flow 3:

Average throughput: 18.66 Mbit/s

95th percentile per-packet one-way delay: 80.531 ms

Loss rate: 10.55%

Run 2: Report of TCP BBR — Data Link

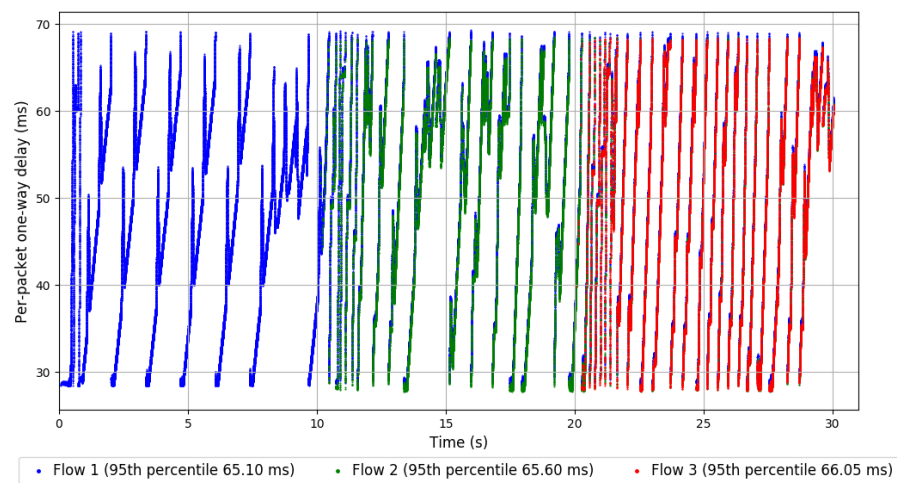
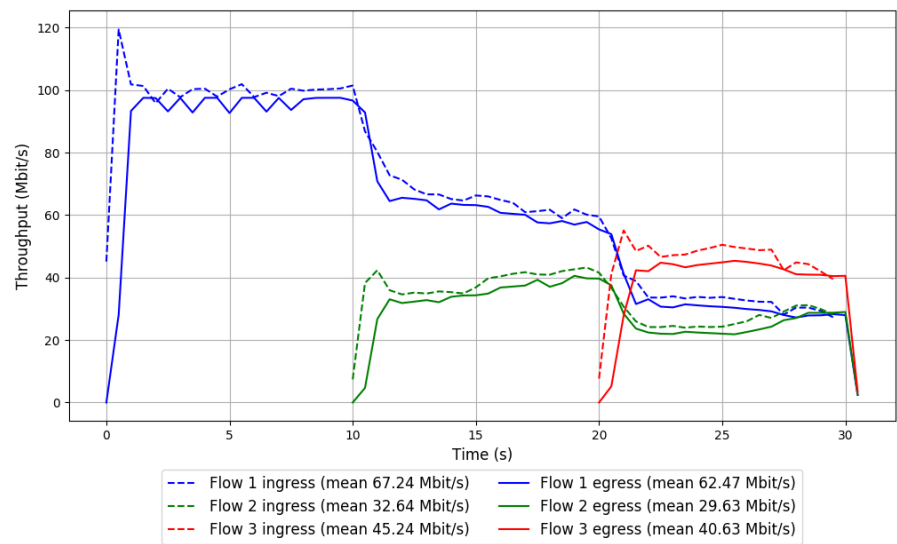


Run 3: Statistics of TCP BBR

Start at: 2018-06-18 17:02:44
End at: 2018-06-18 17:03:14
Local clock offset: 1.064 ms
Remote clock offset: -2.473 ms

Below is generated by plot.py at 2018-06-18 19:55:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 65.407 ms
Loss rate: 7.88%
-- Flow 1:
Average throughput: 62.47 Mbit/s
95th percentile per-packet one-way delay: 65.103 ms
Loss rate: 7.00%
-- Flow 2:
Average throughput: 29.63 Mbit/s
95th percentile per-packet one-way delay: 65.599 ms
Loss rate: 9.14%
-- Flow 3:
Average throughput: 40.63 Mbit/s
95th percentile per-packet one-way delay: 66.054 ms
Loss rate: 10.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-18 17:24:11

End at: 2018-06-18 17:24:41

Local clock offset: 0.21 ms

Remote clock offset: 0.435 ms

Below is generated by plot.py at 2018-06-18 19:55:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 65.202 ms

Loss rate: 8.38%

-- Flow 1:

Average throughput: 64.26 Mbit/s

95th percentile per-packet one-way delay: 64.801 ms

Loss rate: 7.20%

-- Flow 2:

Average throughput: 30.63 Mbit/s

95th percentile per-packet one-way delay: 65.965 ms

Loss rate: 9.29%

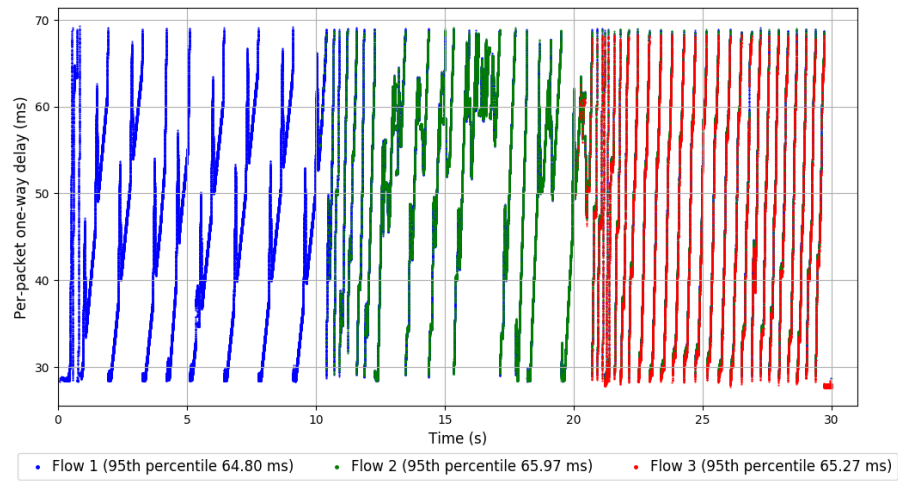
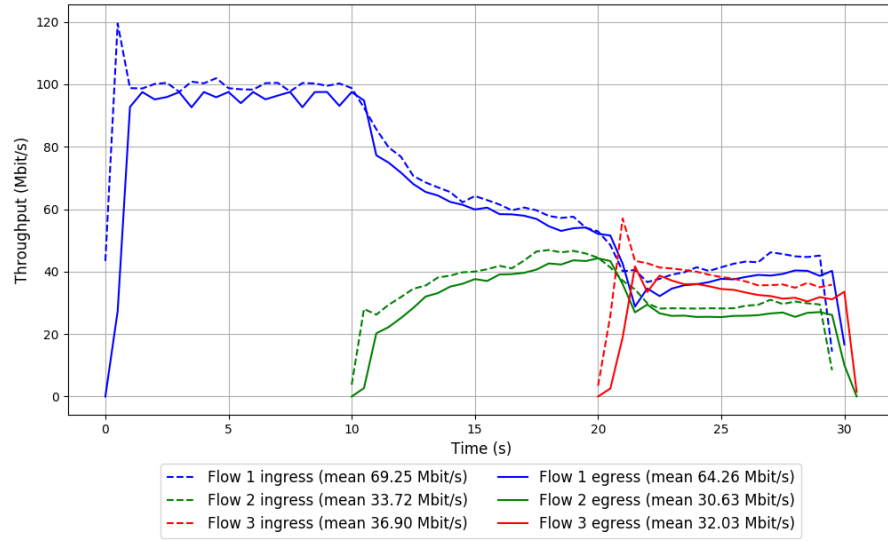
-- Flow 3:

Average throughput: 32.03 Mbit/s

95th percentile per-packet one-way delay: 65.274 ms

Loss rate: 13.39%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-18 17:45:33

End at: 2018-06-18 17:46:03

Local clock offset: 0.286 ms

Remote clock offset: 1.758 ms

Below is generated by plot.py at 2018-06-18 19:55:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.87 Mbit/s

95th percentile per-packet one-way delay: 65.540 ms

Loss rate: 8.75%

-- Flow 1:

Average throughput: 61.87 Mbit/s

95th percentile per-packet one-way delay: 65.204 ms

Loss rate: 7.46%

-- Flow 2:

Average throughput: 32.53 Mbit/s

95th percentile per-packet one-way delay: 65.812 ms

Loss rate: 10.10%

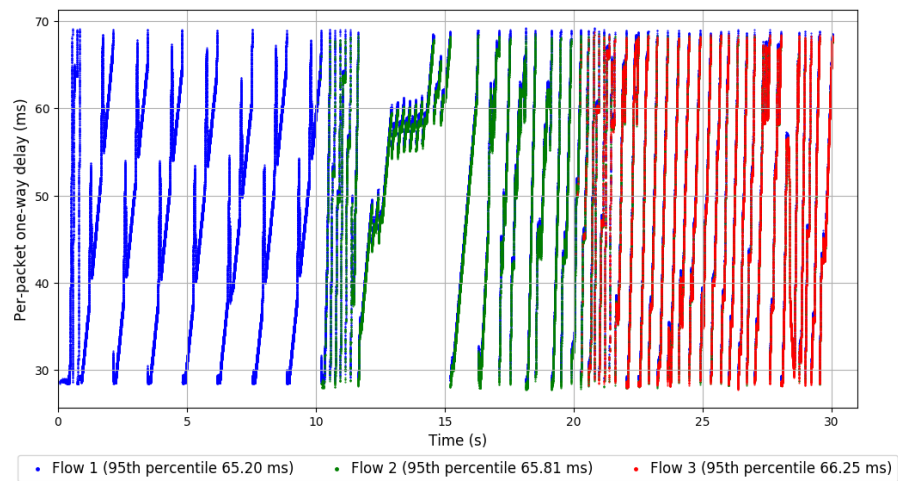
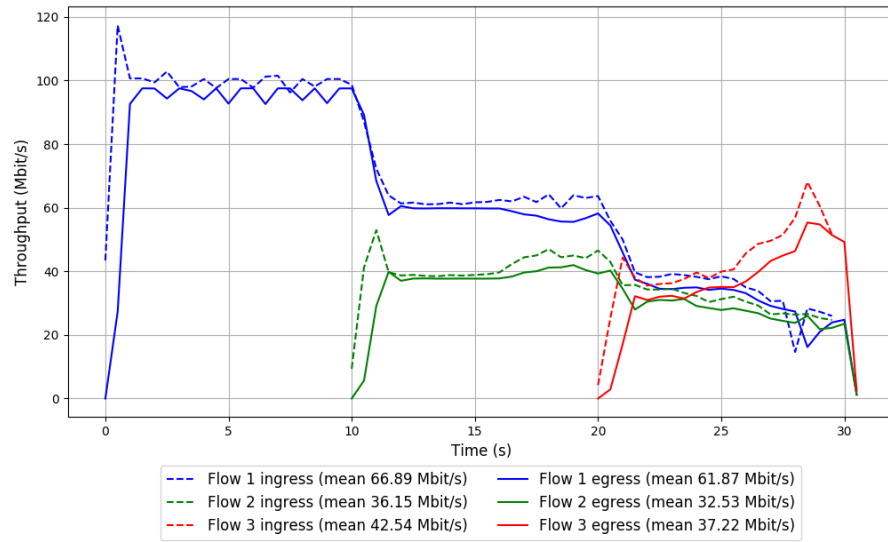
-- Flow 3:

Average throughput: 37.22 Mbit/s

95th percentile per-packet one-way delay: 66.252 ms

Loss rate: 12.49%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-18 18:06:58

End at: 2018-06-18 18:07:28

Local clock offset: -0.535 ms

Remote clock offset: 2.67 ms

Below is generated by plot.py at 2018-06-18 19:55:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 65.506 ms

Loss rate: 8.47%

-- Flow 1:

Average throughput: 65.46 Mbit/s

95th percentile per-packet one-way delay: 65.308 ms

Loss rate: 7.75%

-- Flow 2:

Average throughput: 35.23 Mbit/s

95th percentile per-packet one-way delay: 66.045 ms

Loss rate: 10.26%

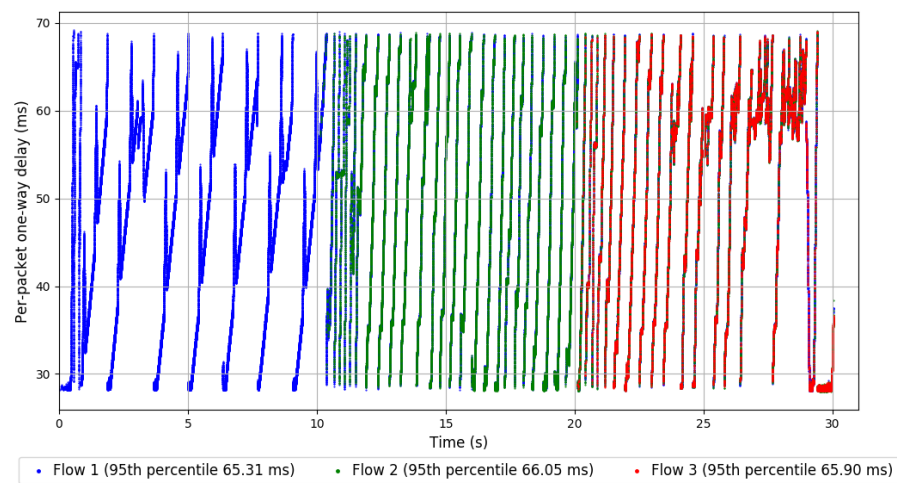
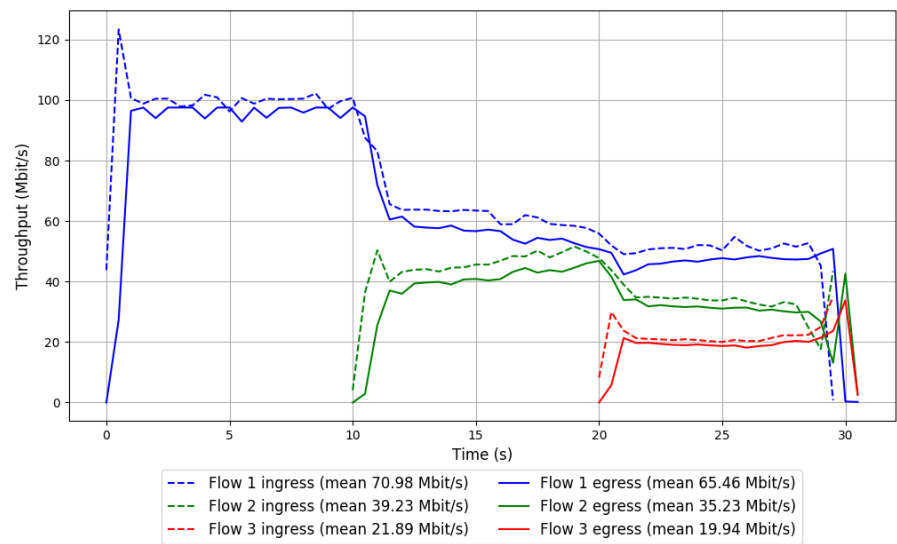
-- Flow 3:

Average throughput: 19.94 Mbit/s

95th percentile per-packet one-way delay: 65.897 ms

Loss rate: 9.12%

Run 6: Report of TCP BBR — Data Link

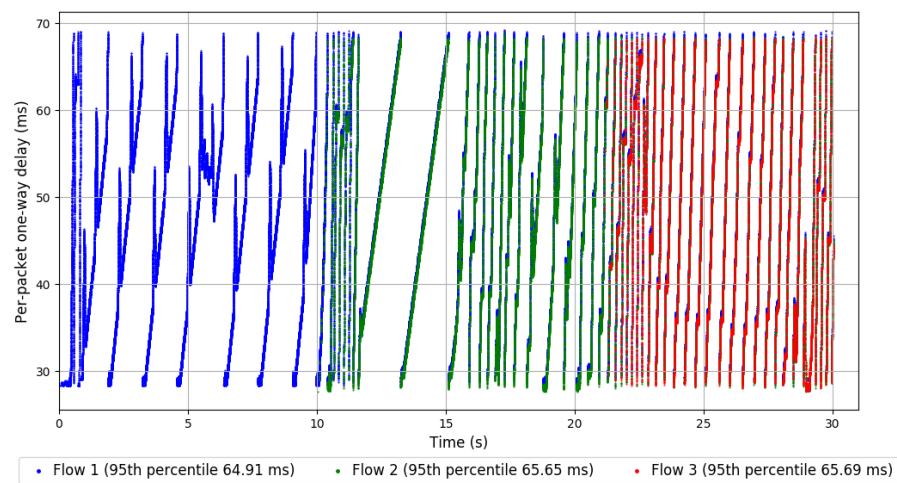
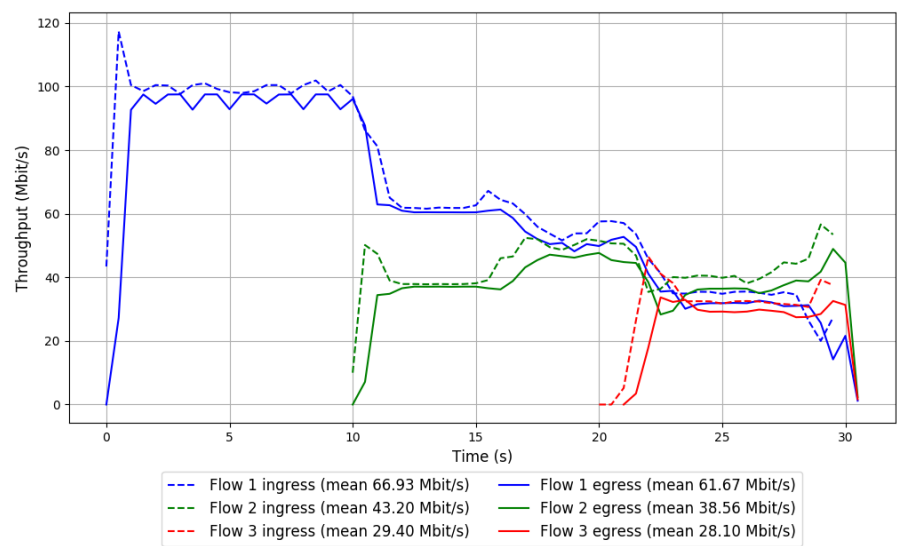


Run 7: Statistics of TCP BBR

Start at: 2018-06-18 18:28:26
End at: 2018-06-18 18:28:56
Local clock offset: -3.333 ms
Remote clock offset: -1.724 ms

Below is generated by plot.py at 2018-06-18 19:55:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 65.270 ms
Loss rate: 9.16%
-- Flow 1:
Average throughput: 61.67 Mbit/s
95th percentile per-packet one-way delay: 64.905 ms
Loss rate: 7.81%
-- Flow 2:
Average throughput: 38.56 Mbit/s
95th percentile per-packet one-way delay: 65.647 ms
Loss rate: 10.65%
-- Flow 3:
Average throughput: 28.10 Mbit/s
95th percentile per-packet one-way delay: 65.688 ms
Loss rate: 14.00%

Run 7: Report of TCP BBR — Data Link

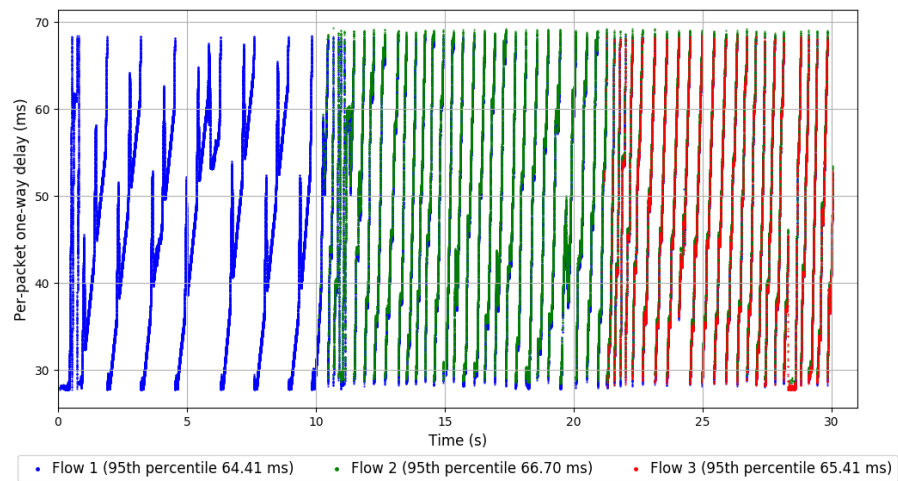
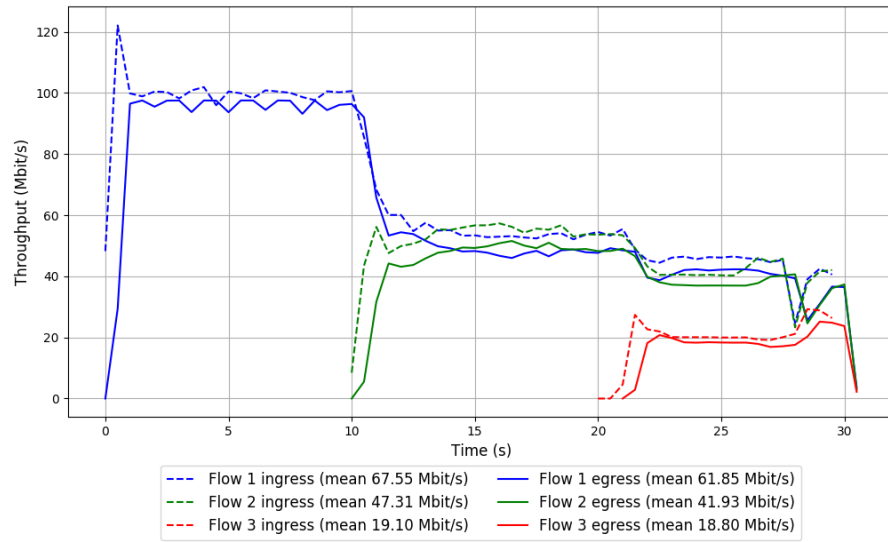


Run 8: Statistics of TCP BBR

Start at: 2018-06-18 18:49:57
End at: 2018-06-18 18:50:27
Local clock offset: -4.127 ms
Remote clock offset: -3.245 ms

Below is generated by plot.py at 2018-06-18 19:55:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.41 Mbit/s
95th percentile per-packet one-way delay: 65.380 ms
Loss rate: 9.43%
-- Flow 1:
Average throughput: 61.85 Mbit/s
95th percentile per-packet one-way delay: 64.414 ms
Loss rate: 8.36%
-- Flow 2:
Average throughput: 41.93 Mbit/s
95th percentile per-packet one-way delay: 66.699 ms
Loss rate: 11.29%
-- Flow 3:
Average throughput: 18.80 Mbit/s
95th percentile per-packet one-way delay: 65.406 ms
Loss rate: 11.48%

Run 8: Report of TCP BBR — Data Link

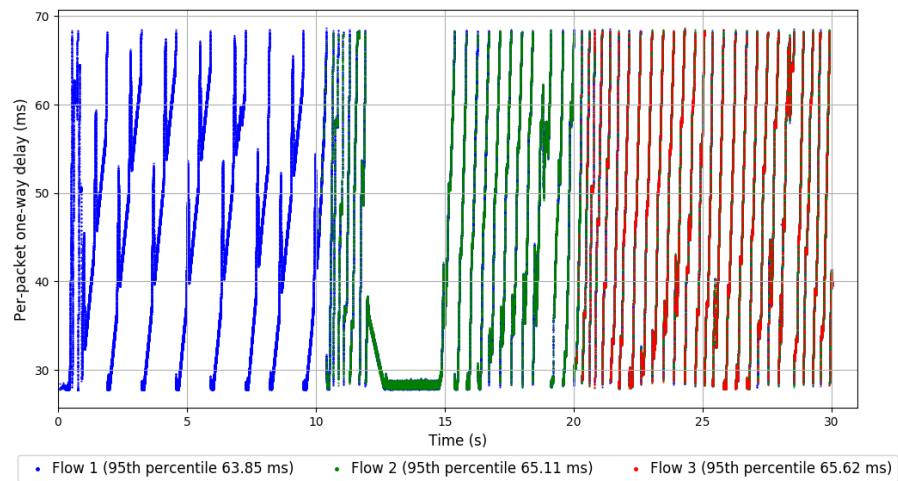
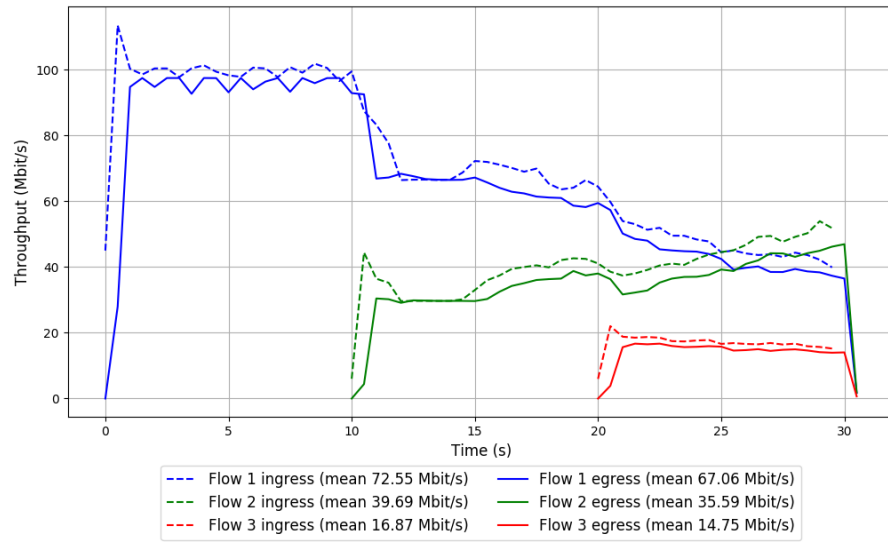


Run 9: Statistics of TCP BBR

Start at: 2018-06-18 19:11:32
End at: 2018-06-18 19:12:02
Local clock offset: -3.063 ms
Remote clock offset: -3.822 ms

Below is generated by plot.py at 2018-06-18 19:56:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 64.288 ms
Loss rate: 8.51%
-- Flow 1:
Average throughput: 67.06 Mbit/s
95th percentile per-packet one-way delay: 63.848 ms
Loss rate: 7.53%
-- Flow 2:
Average throughput: 35.59 Mbit/s
95th percentile per-packet one-way delay: 65.108 ms
Loss rate: 10.35%
-- Flow 3:
Average throughput: 14.75 Mbit/s
95th percentile per-packet one-way delay: 65.620 ms
Loss rate: 12.45%

Run 9: Report of TCP BBR — Data Link

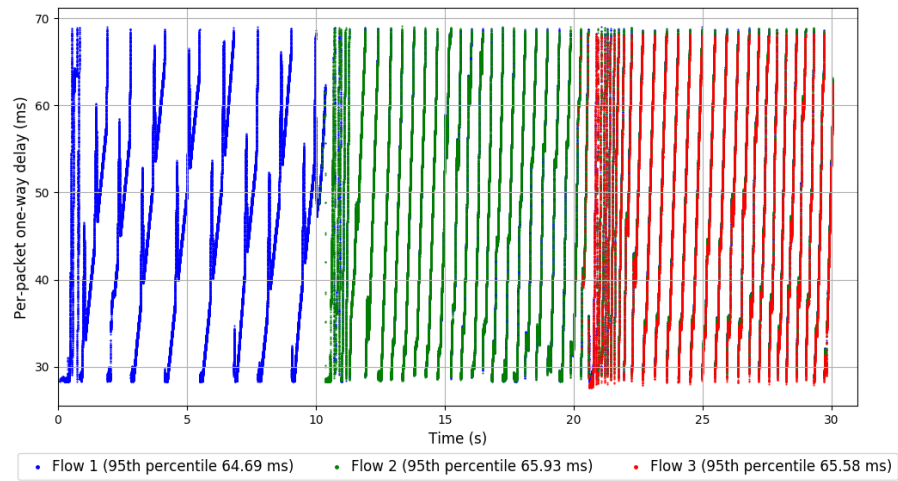
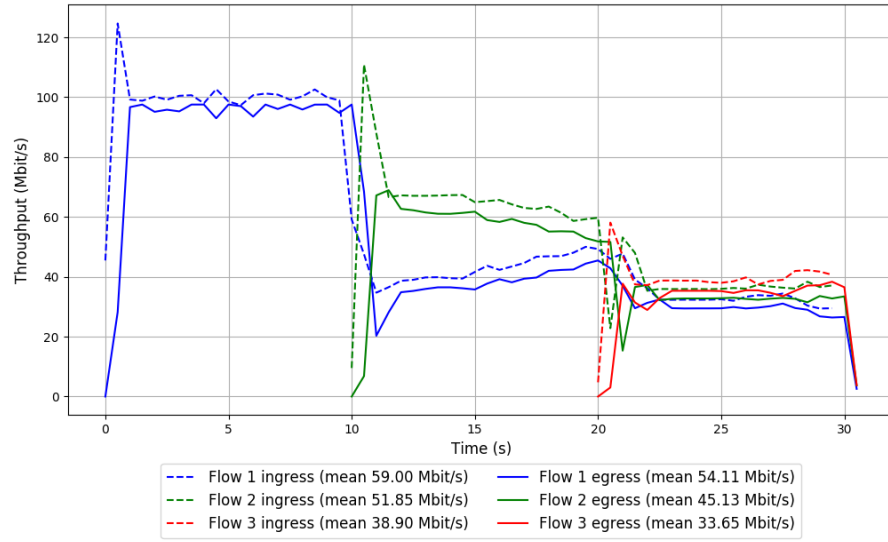


Run 10: Statistics of TCP BBR

Start at: 2018-06-18 19:33:09
End at: 2018-06-18 19:33:39
Local clock offset: -1.888 ms
Remote clock offset: -3.411 ms

Below is generated by plot.py at 2018-06-18 19:56:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 65.248 ms
Loss rate: 10.33%
-- Flow 1:
Average throughput: 54.11 Mbit/s
95th percentile per-packet one-way delay: 64.689 ms
Loss rate: 8.18%
-- Flow 2:
Average throughput: 45.13 Mbit/s
95th percentile per-packet one-way delay: 65.926 ms
Loss rate: 12.89%
-- Flow 3:
Average throughput: 33.65 Mbit/s
95th percentile per-packet one-way delay: 65.577 ms
Loss rate: 13.30%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-18 16:34:46

End at: 2018-06-18 16:35:16

Local clock offset: -2.759 ms

Remote clock offset: -2.5 ms

Below is generated by plot.py at 2018-06-18 19:57:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.40 Mbit/s

95th percentile per-packet one-way delay: 50.938 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 43.48 Mbit/s

95th percentile per-packet one-way delay: 52.647 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 26.82 Mbit/s

95th percentile per-packet one-way delay: 48.599 ms

Loss rate: 1.00%

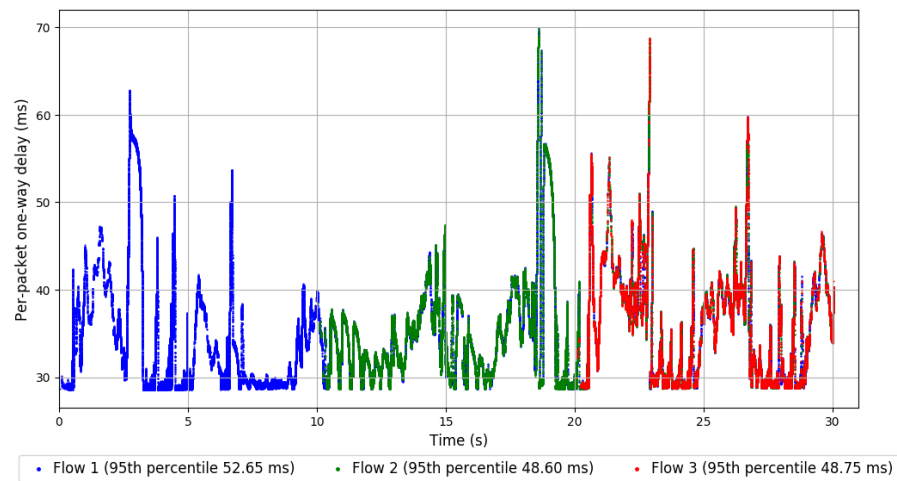
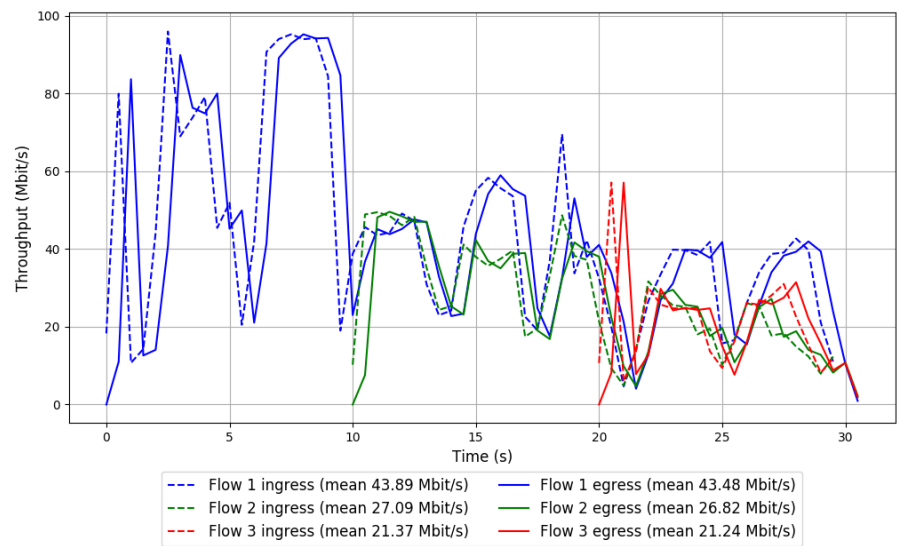
-- Flow 3:

Average throughput: 21.24 Mbit/s

95th percentile per-packet one-way delay: 48.751 ms

Loss rate: 0.53%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-18 16:56:05

End at: 2018-06-18 16:56:35

Local clock offset: 0.833 ms

Remote clock offset: -2.6 ms

Below is generated by plot.py at 2018-06-18 19:57:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 40.823 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 74.75 Mbit/s

95th percentile per-packet one-way delay: 41.467 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 13.94 Mbit/s

95th percentile per-packet one-way delay: 35.035 ms

Loss rate: 0.06%

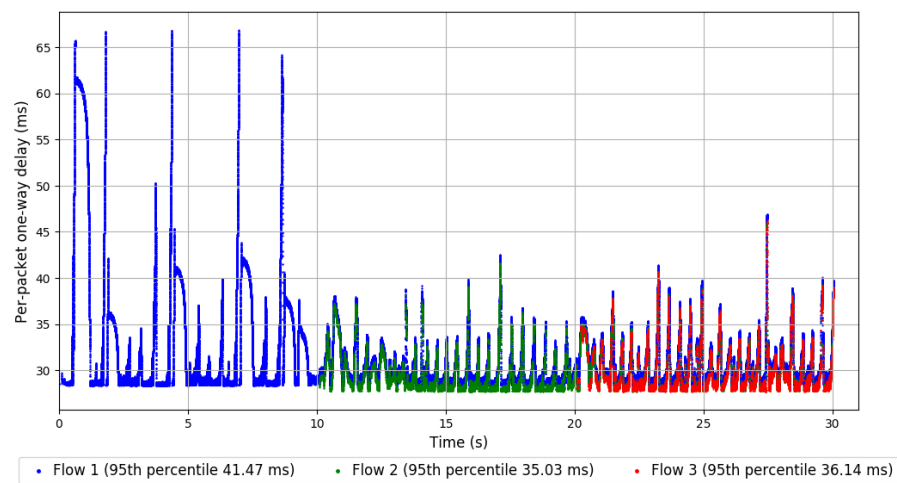
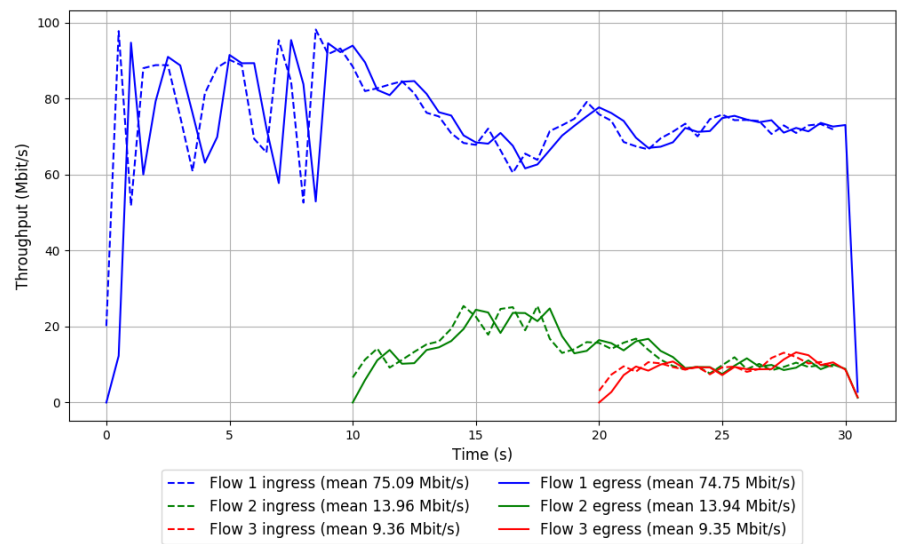
-- Flow 3:

Average throughput: 9.35 Mbit/s

95th percentile per-packet one-way delay: 36.137 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link

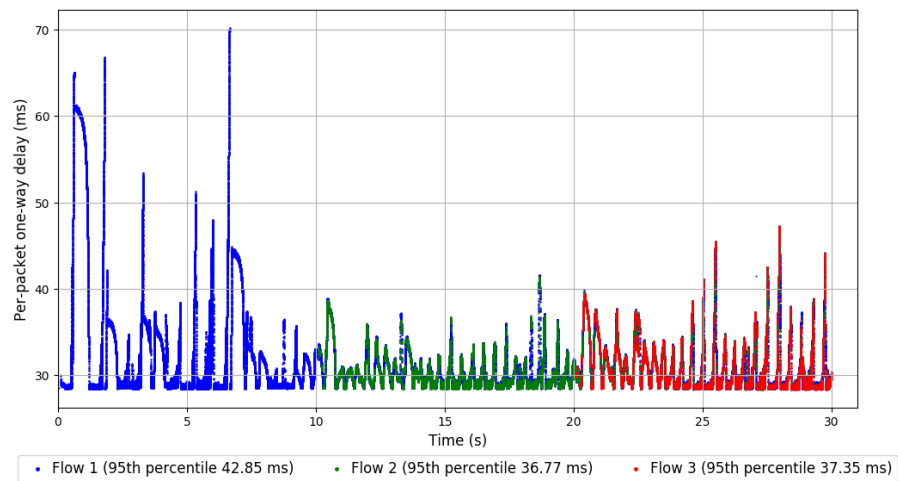
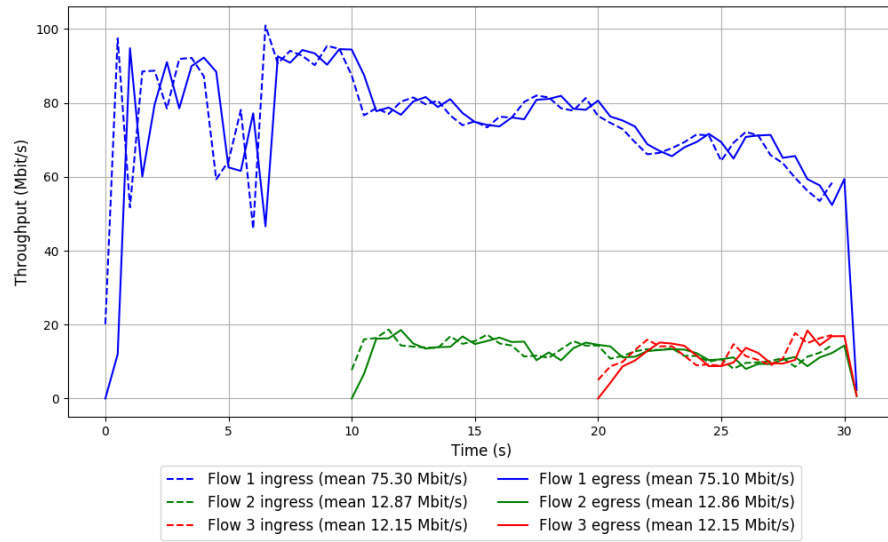


Run 3: Statistics of Copa

Start at: 2018-06-18 17:17:31
End at: 2018-06-18 17:18:01
Local clock offset: 0.275 ms
Remote clock offset: -0.195 ms

Below is generated by plot.py at 2018-06-18 19:57:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.71 Mbit/s
95th percentile per-packet one-way delay: 41.397 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 75.10 Mbit/s
95th percentile per-packet one-way delay: 42.854 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 12.86 Mbit/s
95th percentile per-packet one-way delay: 36.771 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 12.15 Mbit/s
95th percentile per-packet one-way delay: 37.349 ms
Loss rate: 0.05%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-18 17:38:55

End at: 2018-06-18 17:39:25

Local clock offset: 0.229 ms

Remote clock offset: 1.404 ms

Below is generated by plot.py at 2018-06-18 19:57:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.08 Mbit/s

95th percentile per-packet one-way delay: 43.263 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 58.03 Mbit/s

95th percentile per-packet one-way delay: 44.528 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 19.69 Mbit/s

95th percentile per-packet one-way delay: 42.036 ms

Loss rate: 0.15%

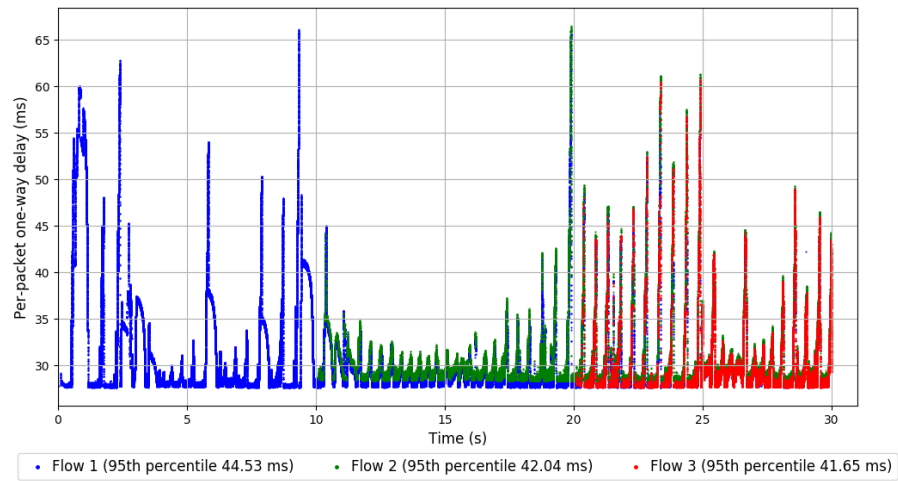
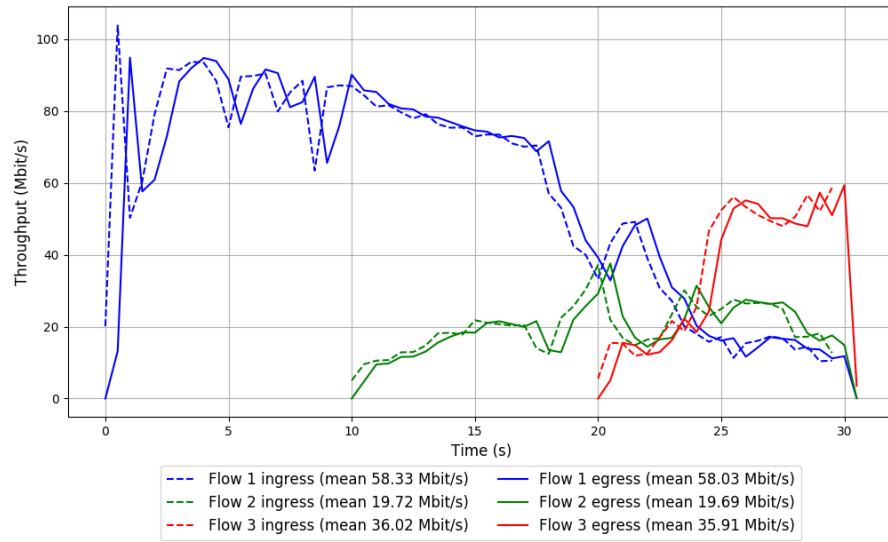
-- Flow 3:

Average throughput: 35.91 Mbit/s

95th percentile per-packet one-way delay: 41.645 ms

Loss rate: 0.30%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-18 18:00:19

End at: 2018-06-18 18:00:49

Local clock offset: 0.355 ms

Remote clock offset: 2.305 ms

Below is generated by plot.py at 2018-06-18 19:57:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.86 Mbit/s

95th percentile per-packet one-way delay: 41.943 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 44.88 Mbit/s

95th percentile per-packet one-way delay: 48.516 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 38.91 Mbit/s

95th percentile per-packet one-way delay: 37.341 ms

Loss rate: 0.40%

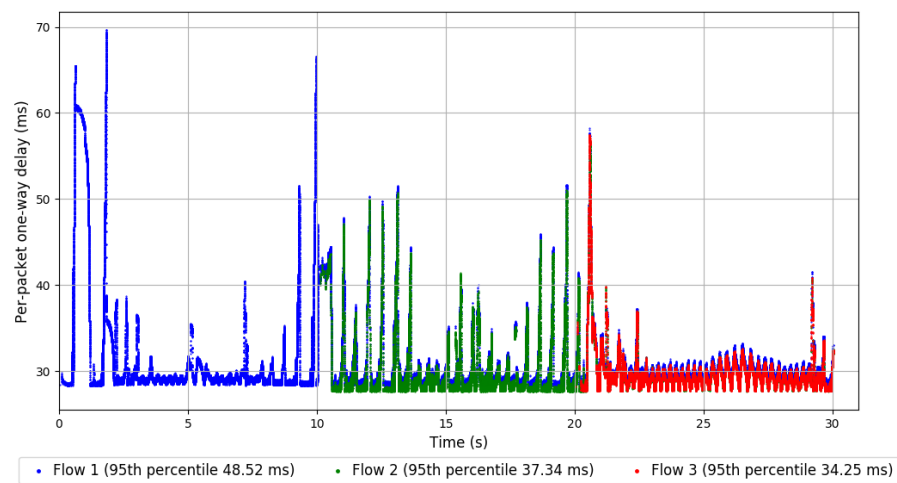
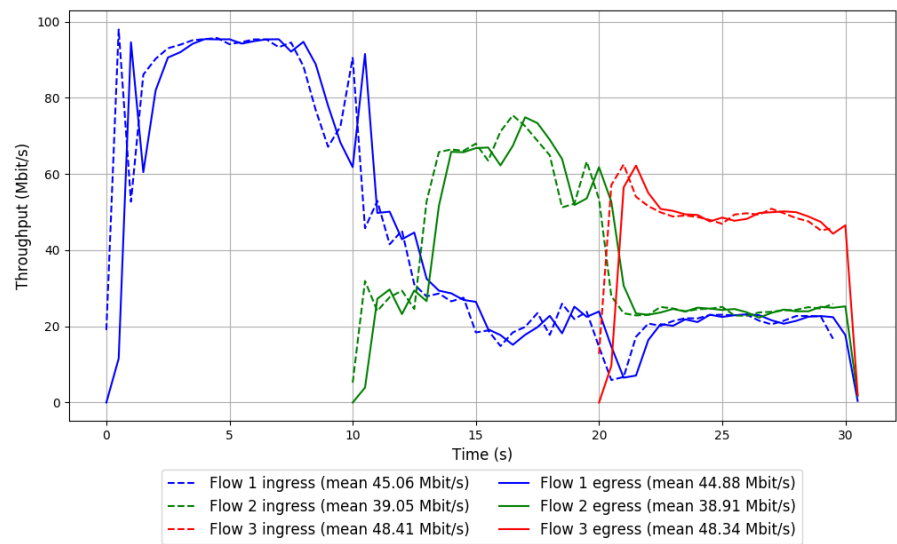
-- Flow 3:

Average throughput: 48.34 Mbit/s

95th percentile per-packet one-way delay: 34.246 ms

Loss rate: 0.10%

Run 5: Report of Copa — Data Link

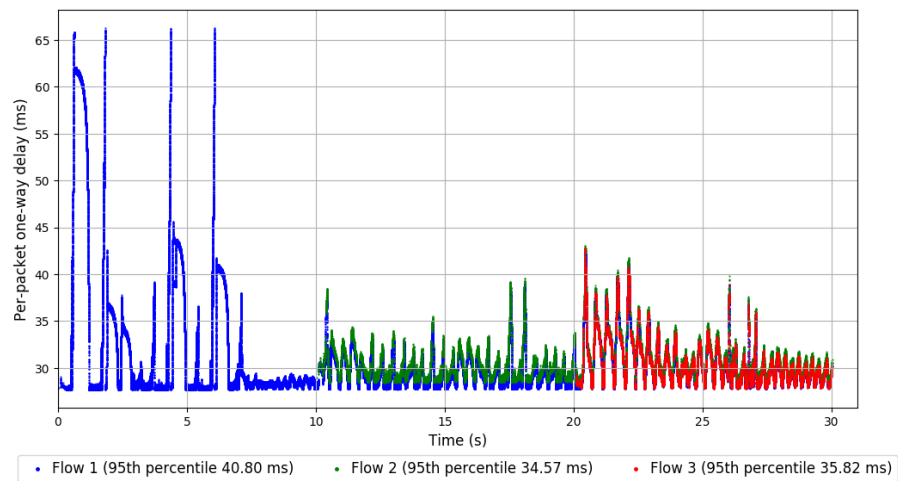
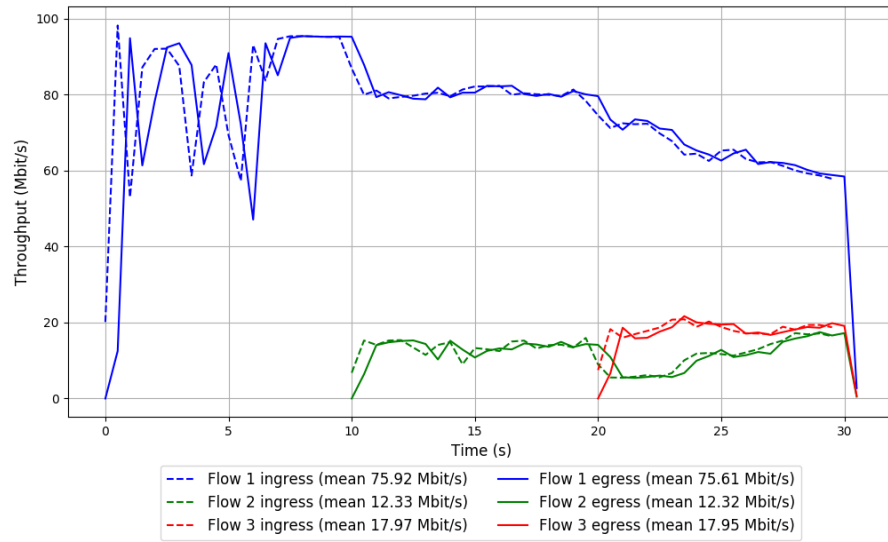


Run 6: Statistics of Copa

Start at: 2018-06-18 18:21:44
End at: 2018-06-18 18:22:14
Local clock offset: -2.909 ms
Remote clock offset: -0.142 ms

Below is generated by plot.py at 2018-06-18 19:57:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.78 Mbit/s
95th percentile per-packet one-way delay: 40.342 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 75.61 Mbit/s
95th percentile per-packet one-way delay: 40.799 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 12.32 Mbit/s
95th percentile per-packet one-way delay: 34.570 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 17.95 Mbit/s
95th percentile per-packet one-way delay: 35.824 ms
Loss rate: 0.14%

Run 6: Report of Copa — Data Link

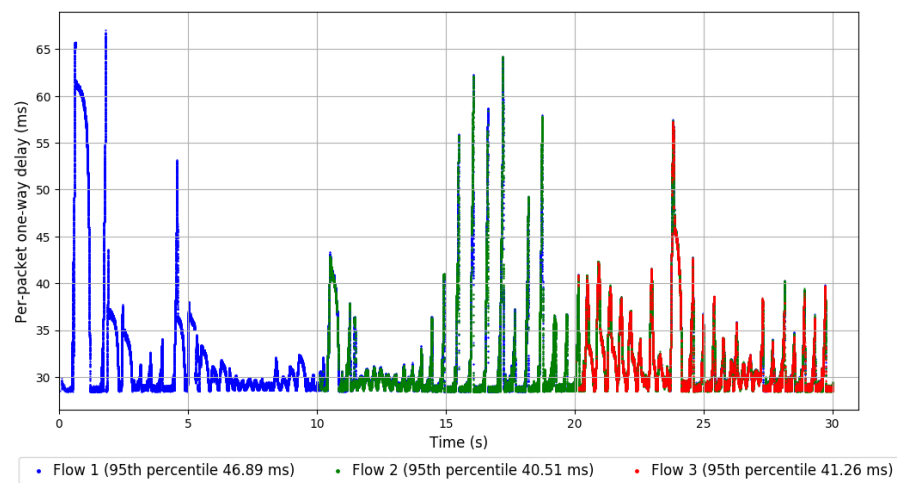
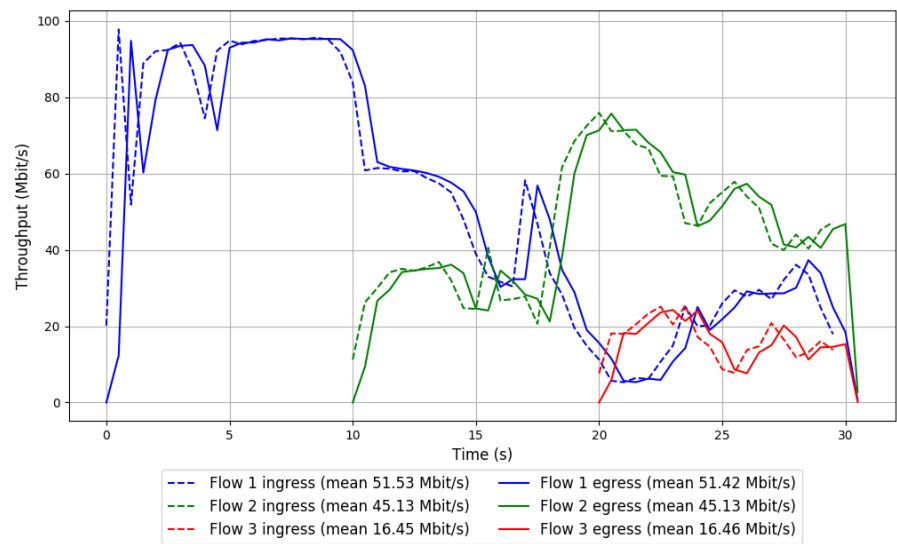


Run 7: Statistics of Copa

Start at: 2018-06-18 18:43:16
End at: 2018-06-18 18:43:46
Local clock offset: -3.951 ms
Remote clock offset: -2.937 ms

Below is generated by plot.py at 2018-06-18 19:59:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.95 Mbit/s
95th percentile per-packet one-way delay: 42.784 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 51.42 Mbit/s
95th percentile per-packet one-way delay: 46.887 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 45.13 Mbit/s
95th percentile per-packet one-way delay: 40.509 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.46 Mbit/s
95th percentile per-packet one-way delay: 41.259 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-18 19:04:44

End at: 2018-06-18 19:05:14

Local clock offset: -4.232 ms

Remote clock offset: -3.52 ms

Below is generated by plot.py at 2018-06-18 19:59:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.43 Mbit/s

95th percentile per-packet one-way delay: 44.734 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 55.38 Mbit/s

95th percentile per-packet one-way delay: 45.848 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 32.26 Mbit/s

95th percentile per-packet one-way delay: 40.350 ms

Loss rate: 0.25%

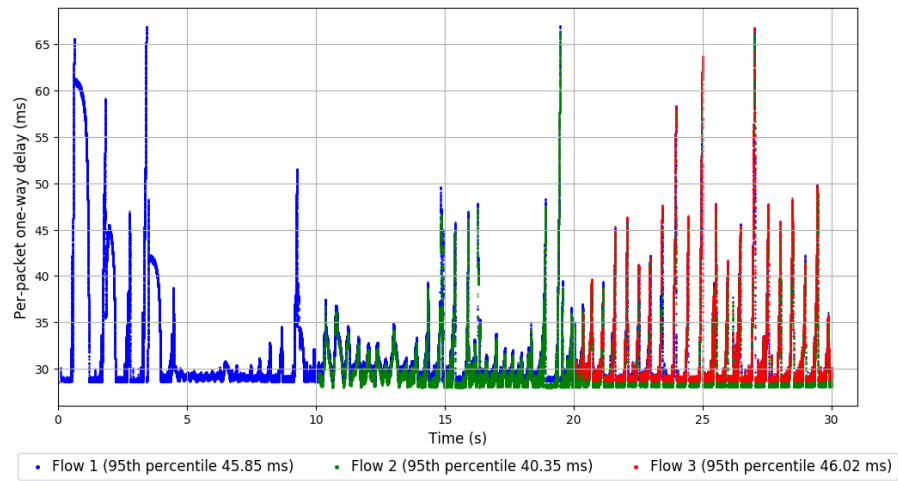
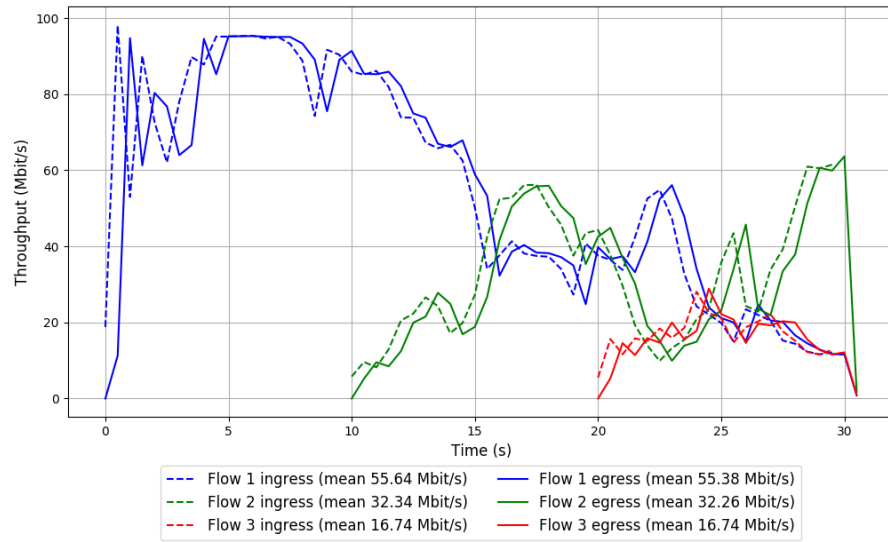
-- Flow 3:

Average throughput: 16.74 Mbit/s

95th percentile per-packet one-way delay: 46.020 ms

Loss rate: 0.01%

Run 8: Report of Copa — Data Link

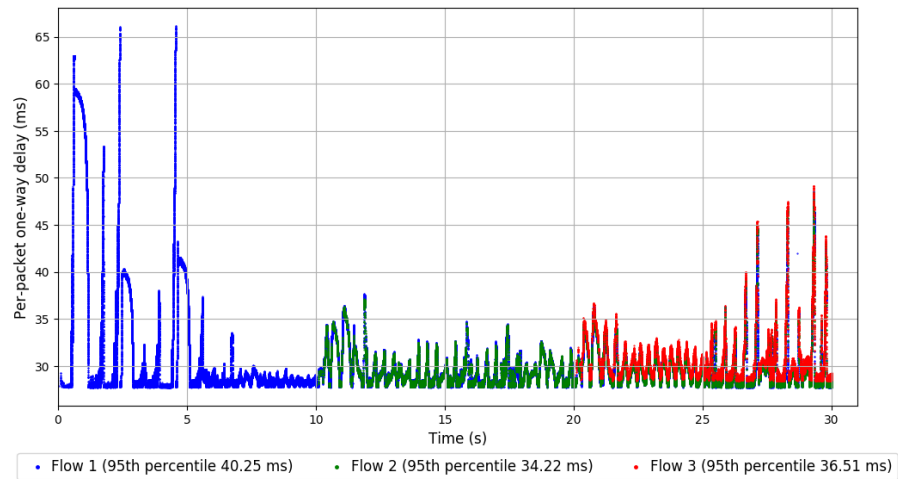
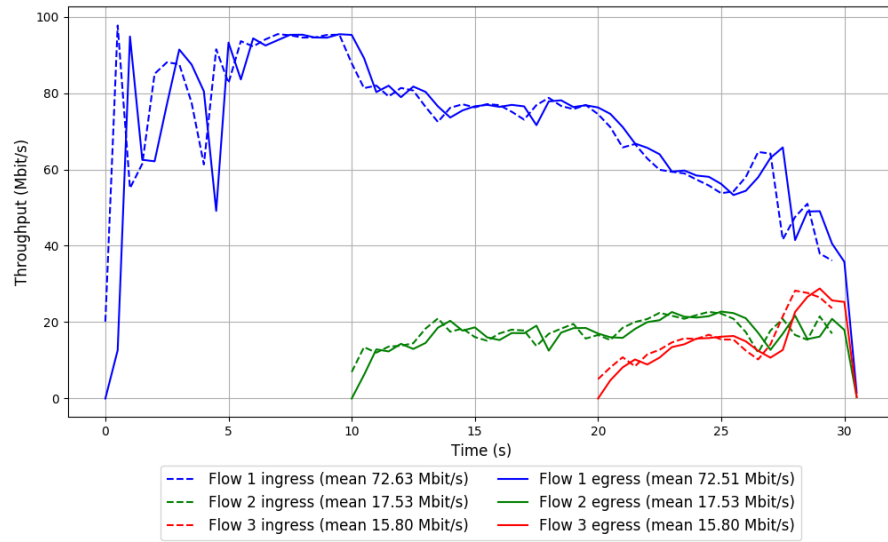


Run 9: Statistics of Copa

Start at: 2018-06-18 19:26:29
End at: 2018-06-18 19:26:59
Local clock offset: -2.098 ms
Remote clock offset: -3.668 ms

```
# Below is generated by plot.py at 2018-06-18 19:59:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.44 Mbit/s
95th percentile per-packet one-way delay: 39.755 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 72.51 Mbit/s
95th percentile per-packet one-way delay: 40.250 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 17.53 Mbit/s
95th percentile per-packet one-way delay: 34.224 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 15.80 Mbit/s
95th percentile per-packet one-way delay: 36.510 ms
Loss rate: 0.00%
```

Run 9: Report of Copa — Data Link

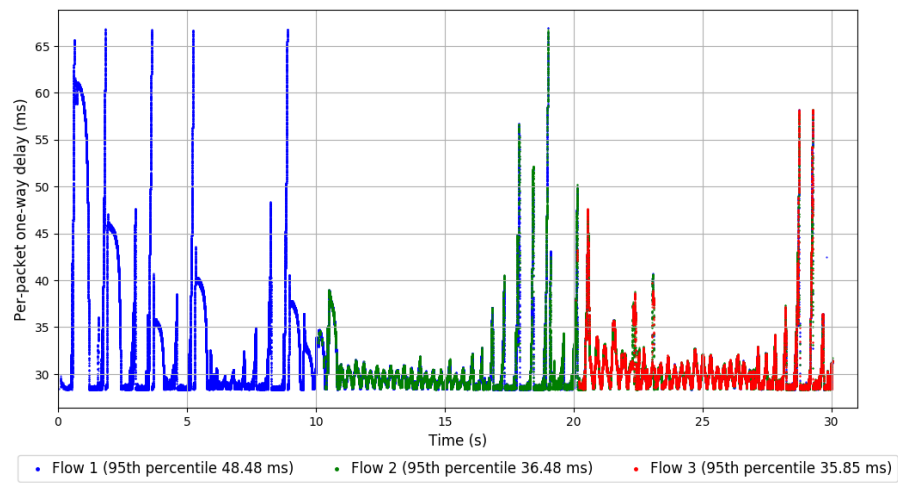
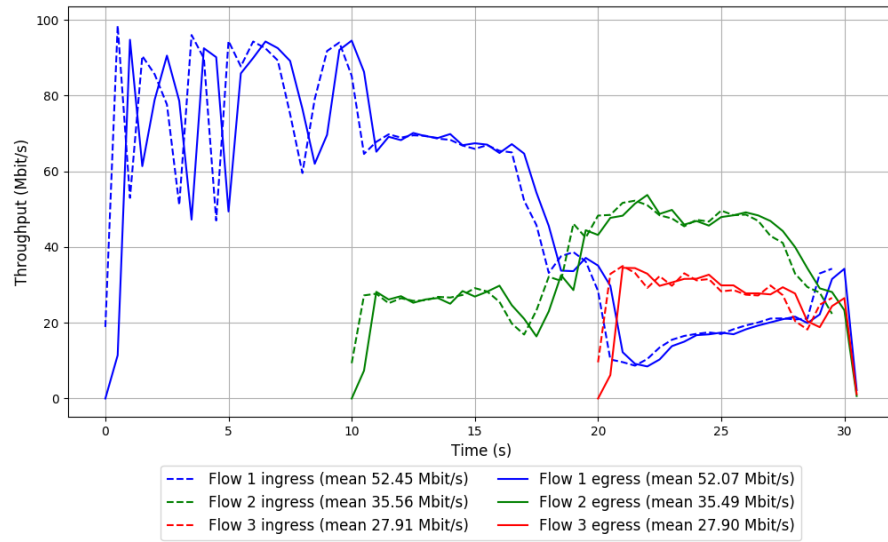


Run 10: Statistics of Copa

Start at: 2018-06-18 19:47:53
End at: 2018-06-18 19:48:23
Local clock offset: -2.113 ms
Remote clock offset: -2.999 ms

Below is generated by plot.py at 2018-06-18 19:59:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.98 Mbit/s
95th percentile per-packet one-way delay: 45.169 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 52.07 Mbit/s
95th percentile per-packet one-way delay: 48.484 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 35.49 Mbit/s
95th percentile per-packet one-way delay: 36.475 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 27.90 Mbit/s
95th percentile per-packet one-way delay: 35.848 ms
Loss rate: 0.14%

Run 10: Report of Copa — Data Link

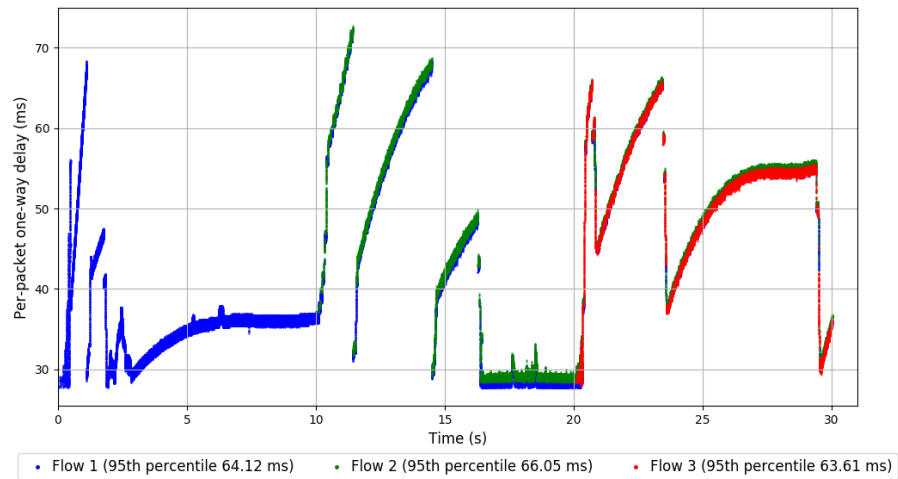
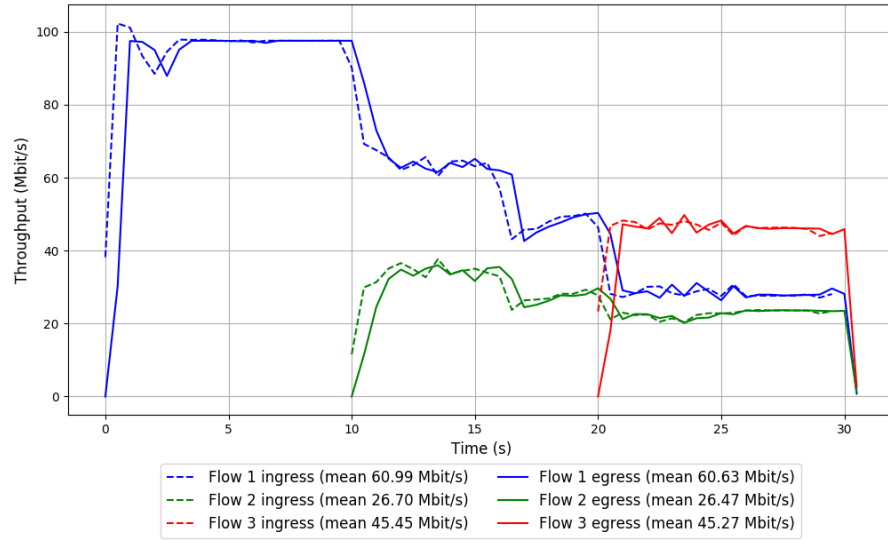


Run 1: Statistics of TCP Cubic

Start at: 2018-06-18 16:25:29
End at: 2018-06-18 16:25:59
Local clock offset: -2.921 ms
Remote clock offset: -2.357 ms

Below is generated by plot.py at 2018-06-18 19:59:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.31 Mbit/s
95th percentile per-packet one-way delay: 64.538 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 60.63 Mbit/s
95th percentile per-packet one-way delay: 64.116 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 26.47 Mbit/s
95th percentile per-packet one-way delay: 66.049 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 45.27 Mbit/s
95th percentile per-packet one-way delay: 63.606 ms
Loss rate: 0.32%

Run 1: Report of TCP Cubic — Data Link

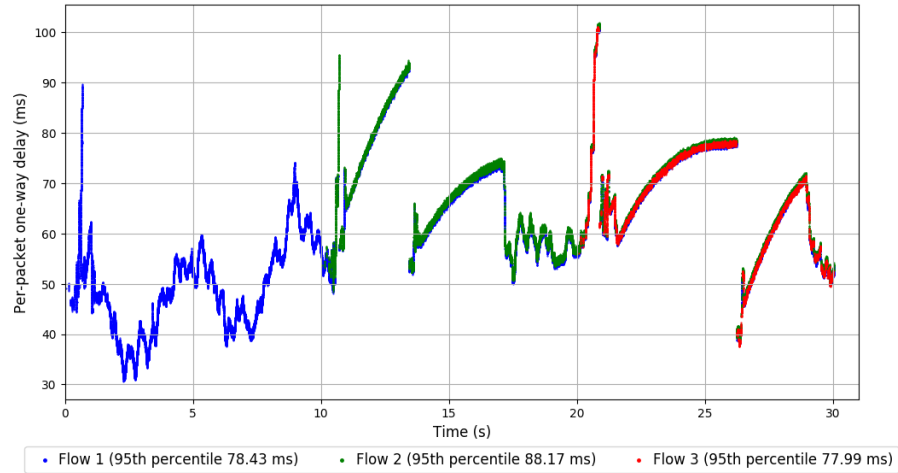
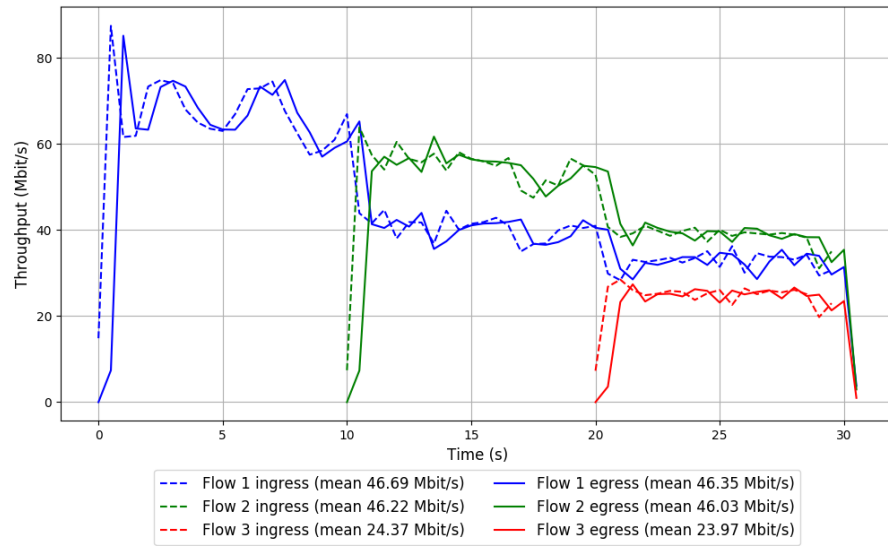


Run 2: Statistics of TCP Cubic

Start at: 2018-06-18 16:46:43
End at: 2018-06-18 16:47:13
Local clock offset: 0.045 ms
Remote clock offset: -5.989 ms

Below is generated by plot.py at 2018-06-18 19:59:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.98 Mbit/s
95th percentile per-packet one-way delay: 83.998 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 46.35 Mbit/s
95th percentile per-packet one-way delay: 78.426 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 46.03 Mbit/s
95th percentile per-packet one-way delay: 88.168 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 77.988 ms
Loss rate: 1.70%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-18 17:08:12

End at: 2018-06-18 17:08:42

Local clock offset: 0.792 ms

Remote clock offset: -1.83 ms

Below is generated by plot.py at 2018-06-18 19:59:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 64.708 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 60.36 Mbit/s

95th percentile per-packet one-way delay: 65.603 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 44.62 Mbit/s

95th percentile per-packet one-way delay: 59.196 ms

Loss rate: 0.39%

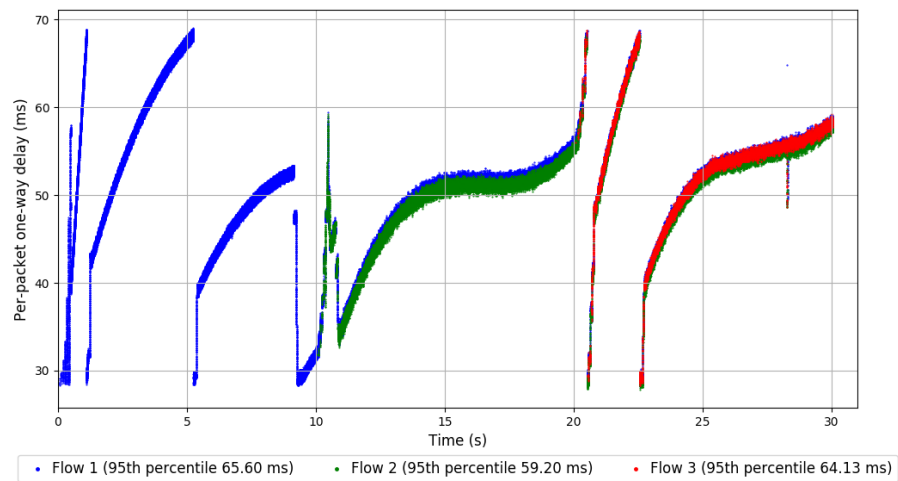
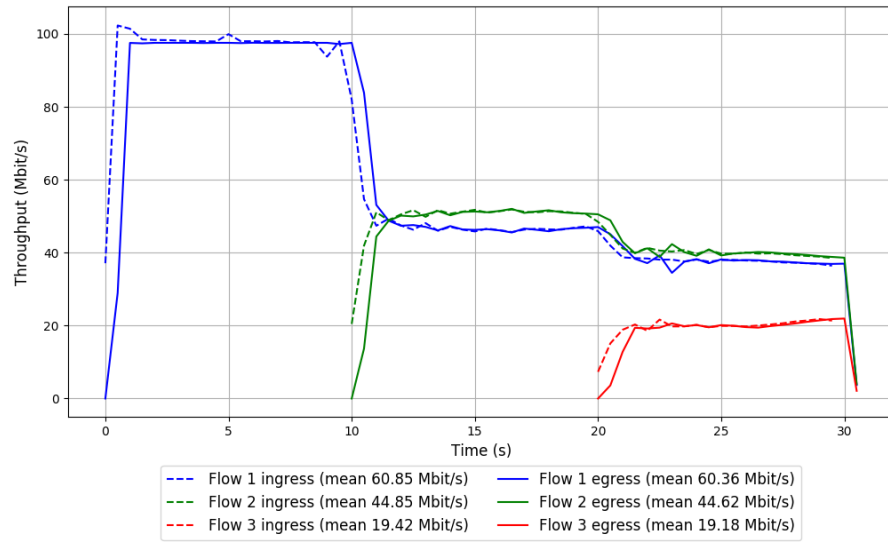
-- Flow 3:

Average throughput: 19.18 Mbit/s

95th percentile per-packet one-way delay: 64.131 ms

Loss rate: 1.22%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-18 17:29:38

End at: 2018-06-18 17:30:08

Local clock offset: 0.053 ms

Remote clock offset: 0.889 ms

Below is generated by plot.py at 2018-06-18 19:59:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.37 Mbit/s

95th percentile per-packet one-way delay: 65.947 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 65.35 Mbit/s

95th percentile per-packet one-way delay: 66.133 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 33.01 Mbit/s

95th percentile per-packet one-way delay: 64.714 ms

Loss rate: 0.47%

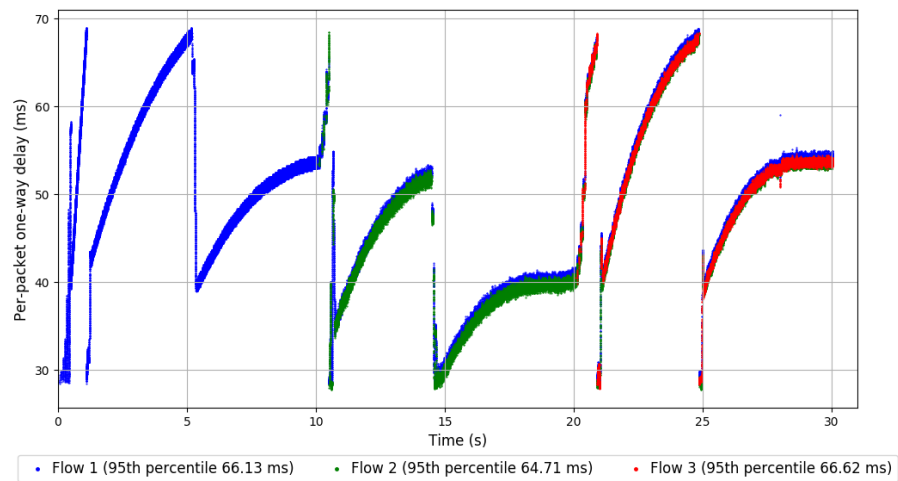
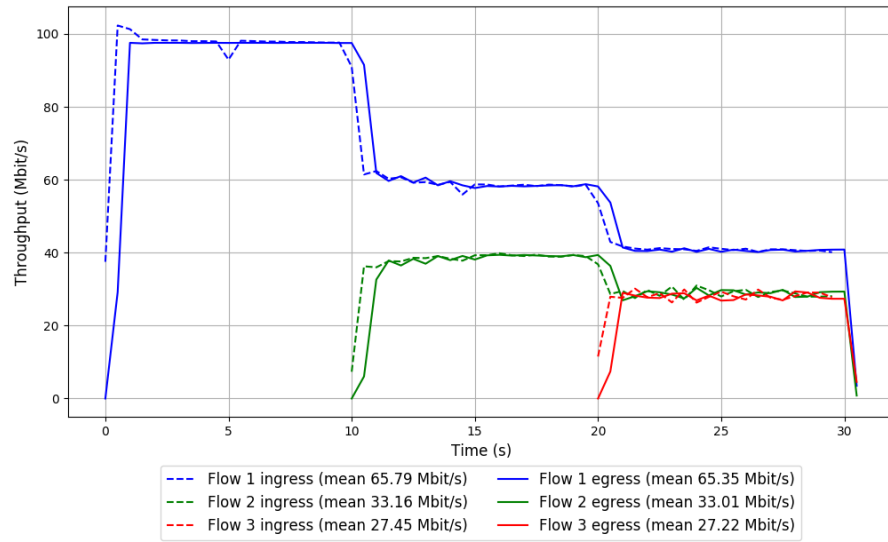
-- Flow 3:

Average throughput: 27.22 Mbit/s

95th percentile per-packet one-way delay: 66.617 ms

Loss rate: 0.71%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-18 17:51:00

End at: 2018-06-18 17:51:30

Local clock offset: 0.33 ms

Remote clock offset: 1.968 ms

Below is generated by plot.py at 2018-06-18 20:00:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 65.946 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 65.65 Mbit/s

95th percentile per-packet one-way delay: 65.949 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 32.64 Mbit/s

95th percentile per-packet one-way delay: 66.293 ms

Loss rate: 0.54%

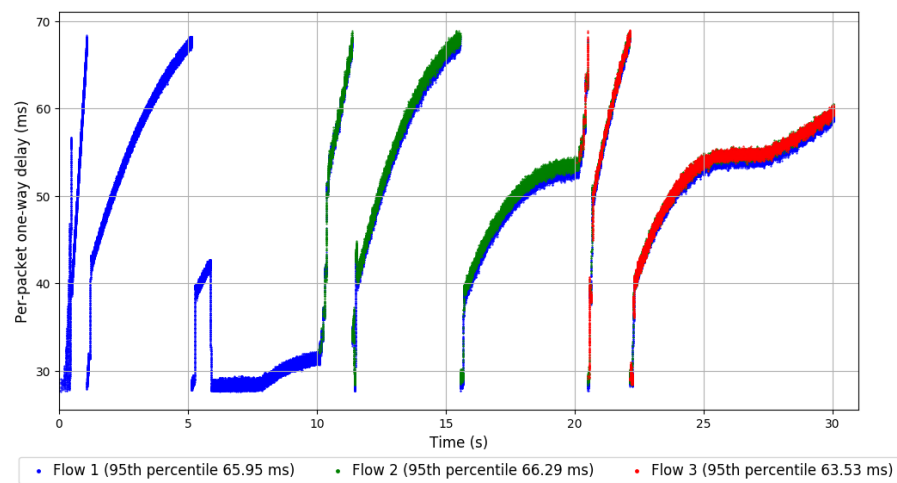
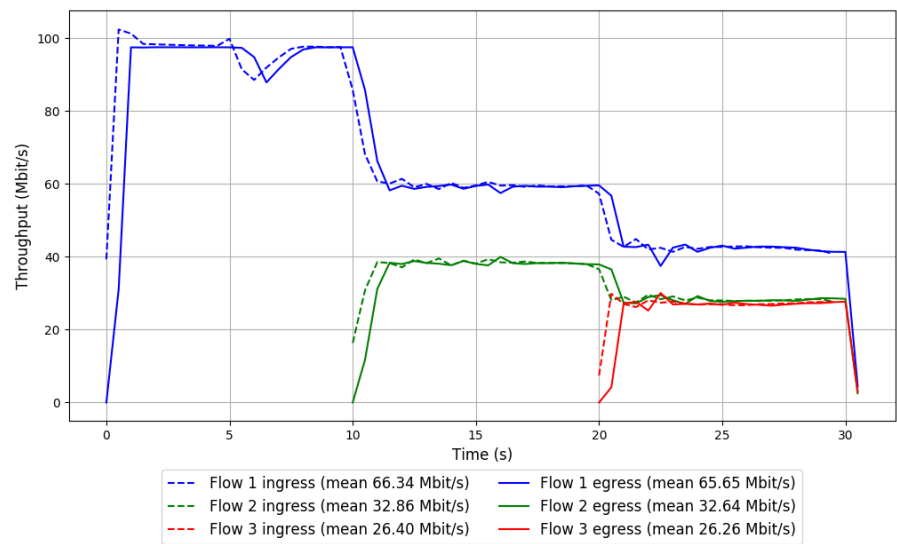
-- Flow 3:

Average throughput: 26.26 Mbit/s

95th percentile per-packet one-way delay: 63.528 ms

Loss rate: 0.47%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-18 18:12:26

End at: 2018-06-18 18:12:56

Local clock offset: -1.8 ms

Remote clock offset: 3.015 ms

Below is generated by plot.py at 2018-06-18 20:00:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 61.639 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 66.03 Mbit/s

95th percentile per-packet one-way delay: 61.610 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 33.30 Mbit/s

95th percentile per-packet one-way delay: 61.909 ms

Loss rate: 0.61%

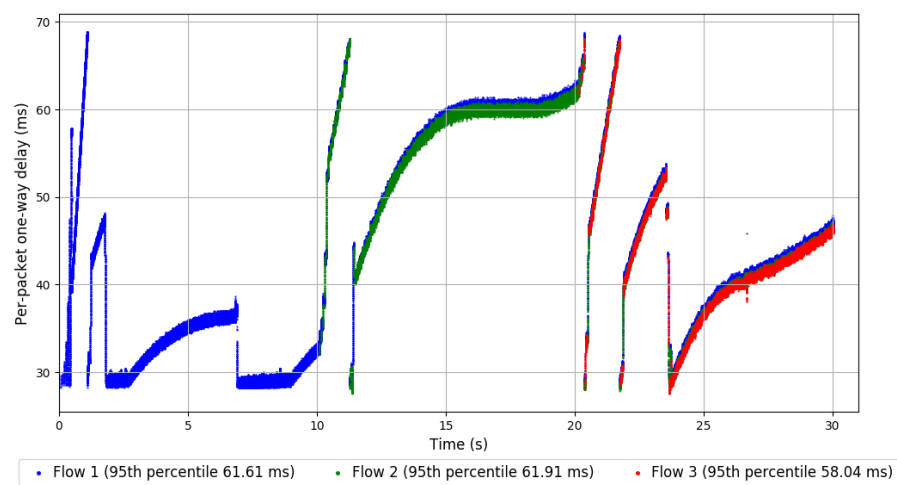
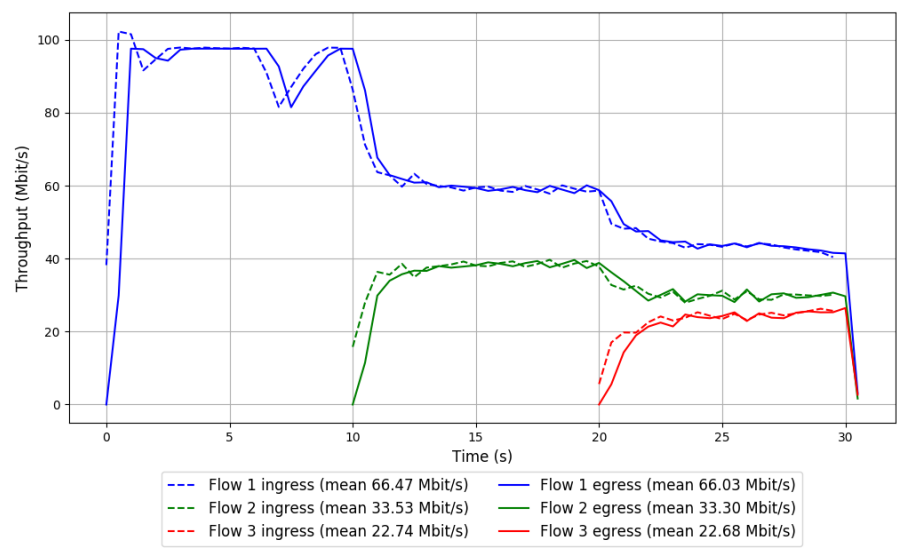
-- Flow 3:

Average throughput: 22.68 Mbit/s

95th percentile per-packet one-way delay: 58.043 ms

Loss rate: 0.41%

Run 6: Report of TCP Cubic — Data Link

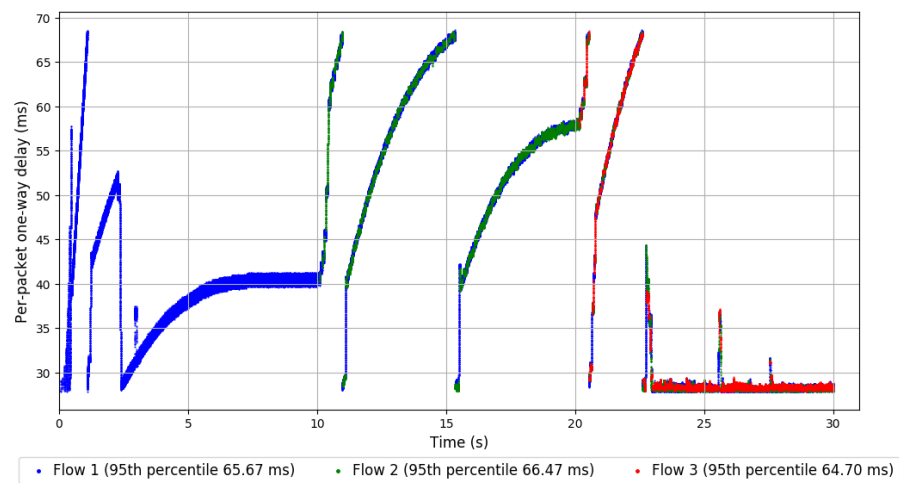
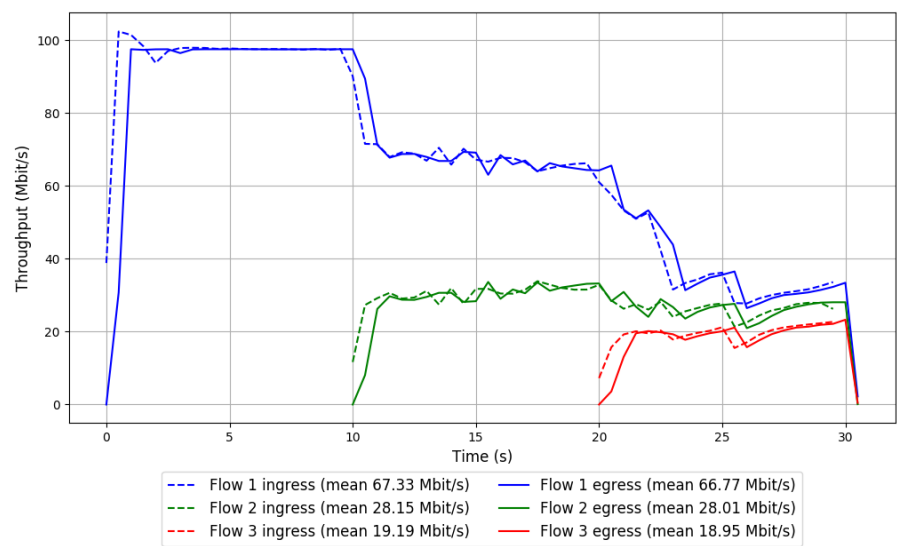


Run 7: Statistics of TCP Cubic

Start at: 2018-06-18 18:33:55
End at: 2018-06-18 18:34:25
Local clock offset: -3.661 ms
Remote clock offset: -2.274 ms

Below is generated by plot.py at 2018-06-18 20:00:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.69 Mbit/s
95th percentile per-packet one-way delay: 65.904 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 66.77 Mbit/s
95th percentile per-packet one-way delay: 65.668 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 28.01 Mbit/s
95th percentile per-packet one-way delay: 66.471 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 18.95 Mbit/s
95th percentile per-packet one-way delay: 64.700 ms
Loss rate: 1.53%

Run 7: Report of TCP Cubic — Data Link

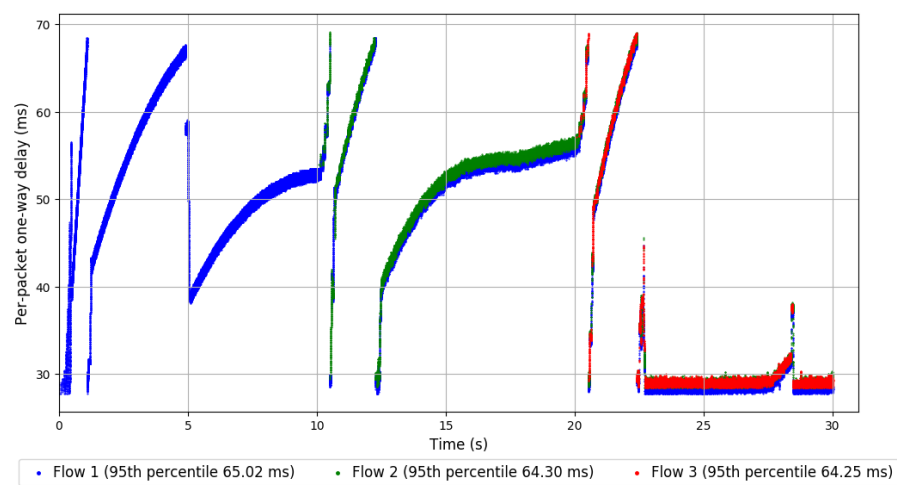
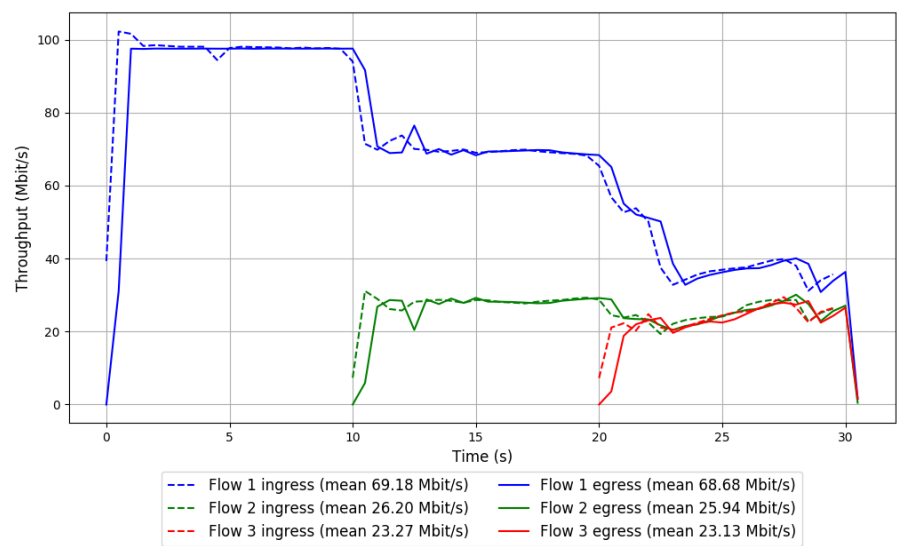


Run 8: Statistics of TCP Cubic

Start at: 2018-06-18 18:55:26
End at: 2018-06-18 18:55:56
Local clock offset: -4.246 ms
Remote clock offset: -3.345 ms

Below is generated by plot.py at 2018-06-18 20:00:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.60 Mbit/s
95th percentile per-packet one-way delay: 64.861 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 68.68 Mbit/s
95th percentile per-packet one-way delay: 65.022 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 25.94 Mbit/s
95th percentile per-packet one-way delay: 64.298 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 23.13 Mbit/s
95th percentile per-packet one-way delay: 64.247 ms
Loss rate: 0.87%

Run 8: Report of TCP Cubic — Data Link

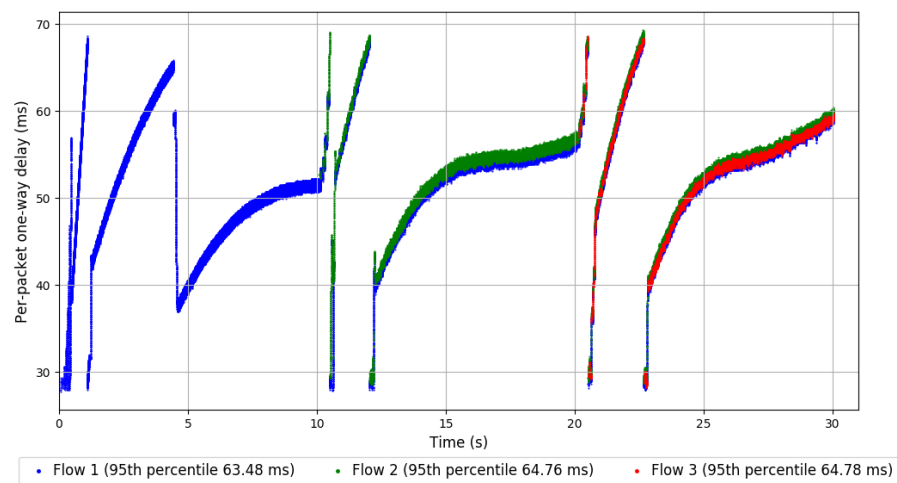
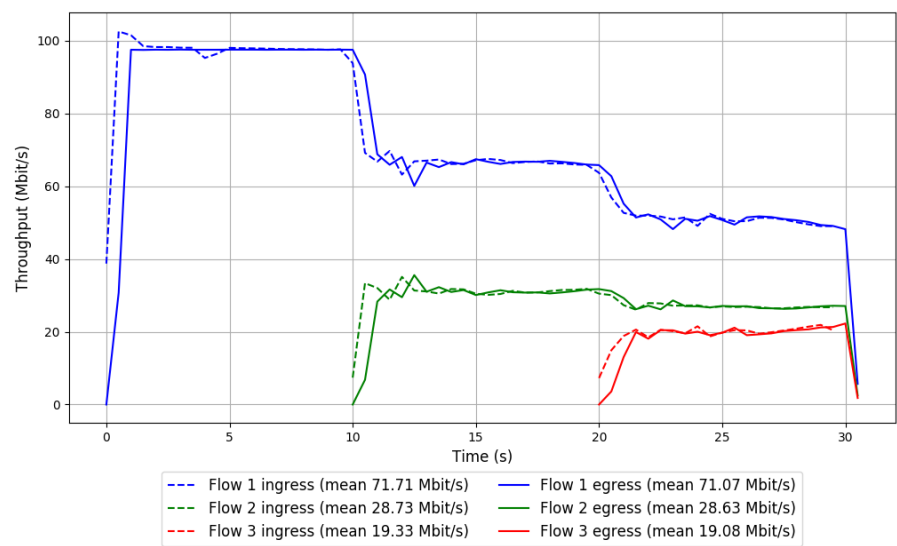


Run 9: Statistics of TCP Cubic

Start at: 2018-06-18 19:17:08
End at: 2018-06-18 19:17:38
Local clock offset: -2.642 ms
Remote clock offset: -3.862 ms

Below is generated by plot.py at 2018-06-18 20:00:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.46 Mbit/s
95th percentile per-packet one-way delay: 63.736 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 71.07 Mbit/s
95th percentile per-packet one-way delay: 63.479 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 28.63 Mbit/s
95th percentile per-packet one-way delay: 64.762 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 19.08 Mbit/s
95th percentile per-packet one-way delay: 64.777 ms
Loss rate: 1.23%

Run 9: Report of TCP Cubic — Data Link

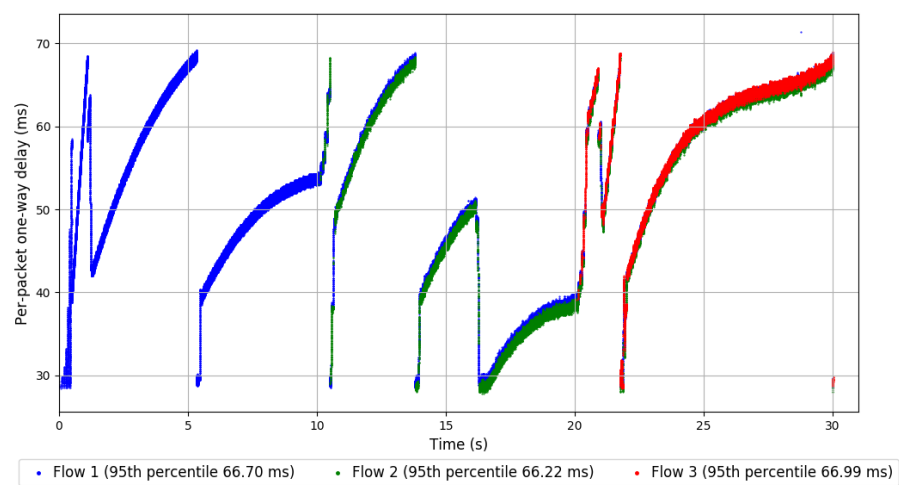
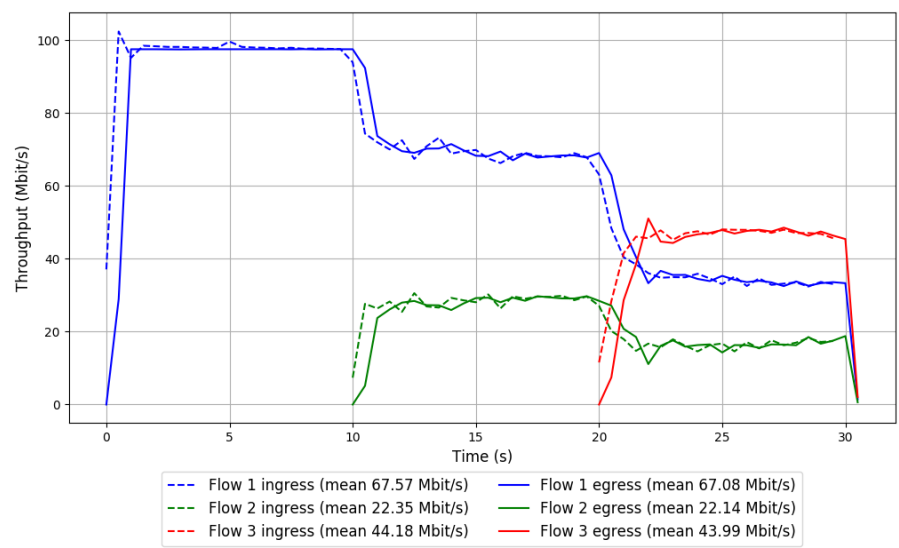


Run 10: Statistics of TCP Cubic

Start at: 2018-06-18 19:38:36
End at: 2018-06-18 19:39:06
Local clock offset: -2.028 ms
Remote clock offset: -3.078 ms

Below is generated by plot.py at 2018-06-18 20:00:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 66.712 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 67.08 Mbit/s
95th percentile per-packet one-way delay: 66.705 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 22.14 Mbit/s
95th percentile per-packet one-way delay: 66.222 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 43.99 Mbit/s
95th percentile per-packet one-way delay: 66.992 ms
Loss rate: 0.53%

Run 10: Report of TCP Cubic — Data Link

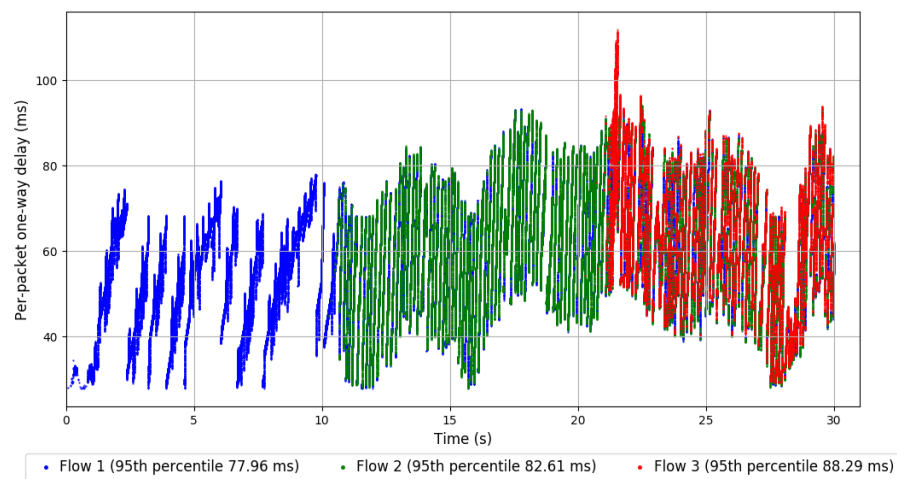
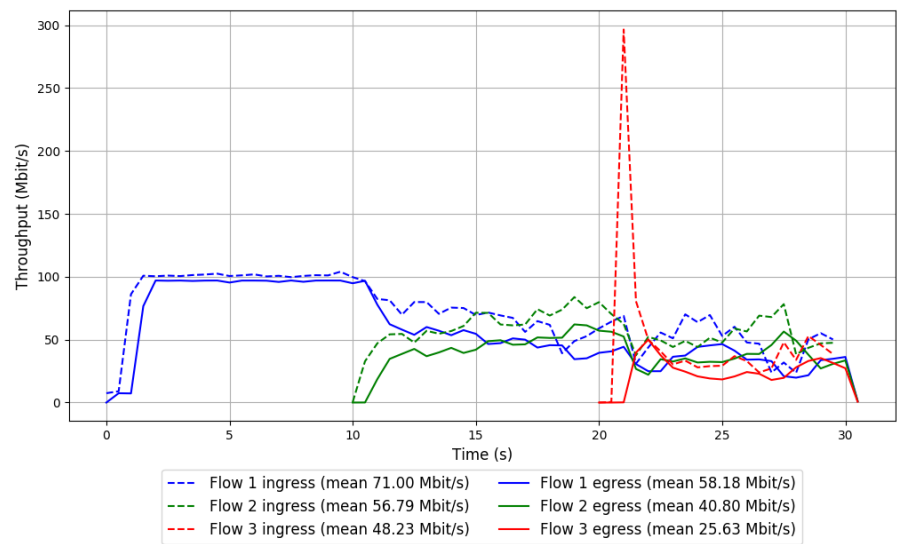


Run 1: Statistics of FillP

Start at: 2018-06-18 16:26:50
End at: 2018-06-18 16:27:20
Local clock offset: -2.943 ms
Remote clock offset: -2.331 ms

Below is generated by plot.py at 2018-06-18 20:01:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.39 Mbit/s
95th percentile per-packet one-way delay: 81.248 ms
Loss rate: 25.09%
-- Flow 1:
Average throughput: 58.18 Mbit/s
95th percentile per-packet one-way delay: 77.964 ms
Loss rate: 17.96%
-- Flow 2:
Average throughput: 40.80 Mbit/s
95th percentile per-packet one-way delay: 82.606 ms
Loss rate: 28.83%
-- Flow 3:
Average throughput: 25.63 Mbit/s
95th percentile per-packet one-way delay: 88.287 ms
Loss rate: 47.90%

Run 1: Report of FillP — Data Link

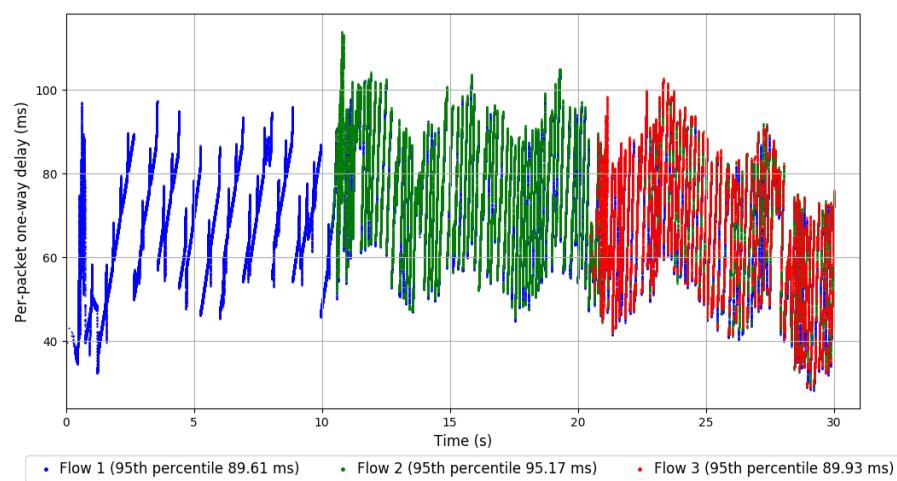
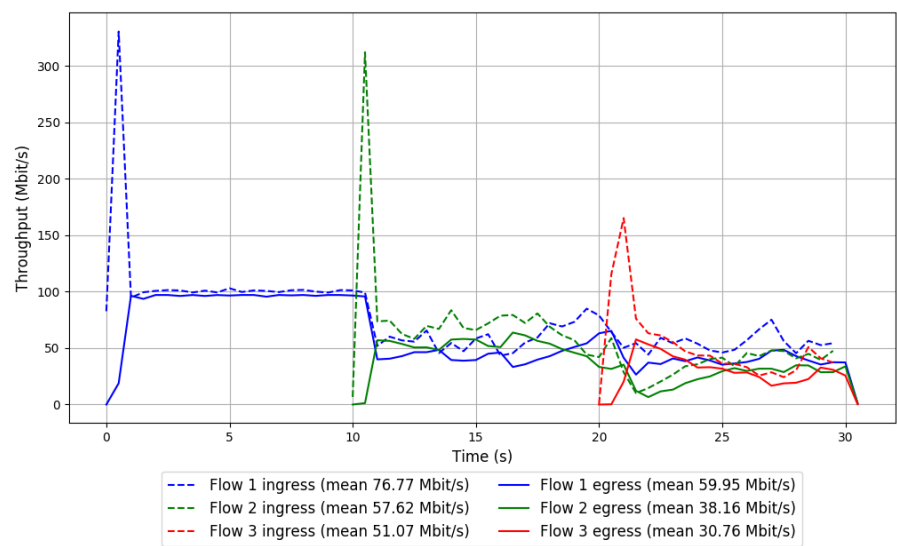


Run 2: Statistics of FillP

Start at: 2018-06-18 16:48:04
End at: 2018-06-18 16:48:34
Local clock offset: 0.208 ms
Remote clock offset: -2.869 ms

Below is generated by plot.py at 2018-06-18 20:01:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 91.665 ms
Loss rate: 27.67%
-- Flow 1:
Average throughput: 59.95 Mbit/s
95th percentile per-packet one-way delay: 89.612 ms
Loss rate: 21.89%
-- Flow 2:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 95.173 ms
Loss rate: 33.79%
-- Flow 3:
Average throughput: 30.76 Mbit/s
95th percentile per-packet one-way delay: 89.929 ms
Loss rate: 40.01%

Run 2: Report of FillP — Data Link

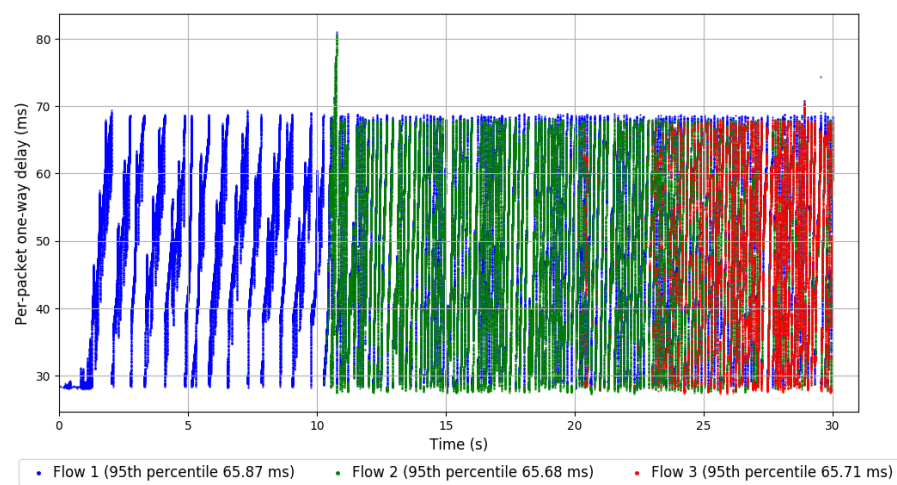
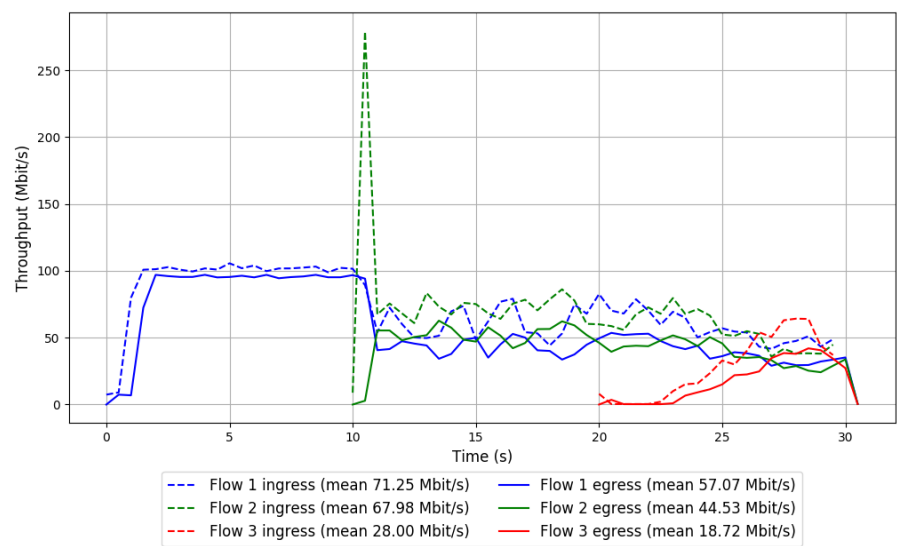


Run 3: Statistics of FillP

Start at: 2018-06-18 17:09:33
End at: 2018-06-18 17:10:03
Local clock offset: 0.696 ms
Remote clock offset: -1.551 ms

Below is generated by plot.py at 2018-06-18 20:01:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 65.791 ms
Loss rate: 26.05%
-- Flow 1:
Average throughput: 57.07 Mbit/s
95th percentile per-packet one-way delay: 65.867 ms
Loss rate: 19.81%
-- Flow 2:
Average throughput: 44.53 Mbit/s
95th percentile per-packet one-way delay: 65.680 ms
Loss rate: 34.46%
-- Flow 3:
Average throughput: 18.72 Mbit/s
95th percentile per-packet one-way delay: 65.709 ms
Loss rate: 32.94%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-18 17:30:58

End at: 2018-06-18 17:31:28

Local clock offset: 0.13 ms

Remote clock offset: 0.972 ms

Below is generated by plot.py at 2018-06-18 20:01:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.41 Mbit/s

95th percentile per-packet one-way delay: 66.252 ms

Loss rate: 26.26%

-- Flow 1:

Average throughput: 59.08 Mbit/s

95th percentile per-packet one-way delay: 66.059 ms

Loss rate: 18.43%

-- Flow 2:

Average throughput: 38.72 Mbit/s

95th percentile per-packet one-way delay: 66.511 ms

Loss rate: 33.77%

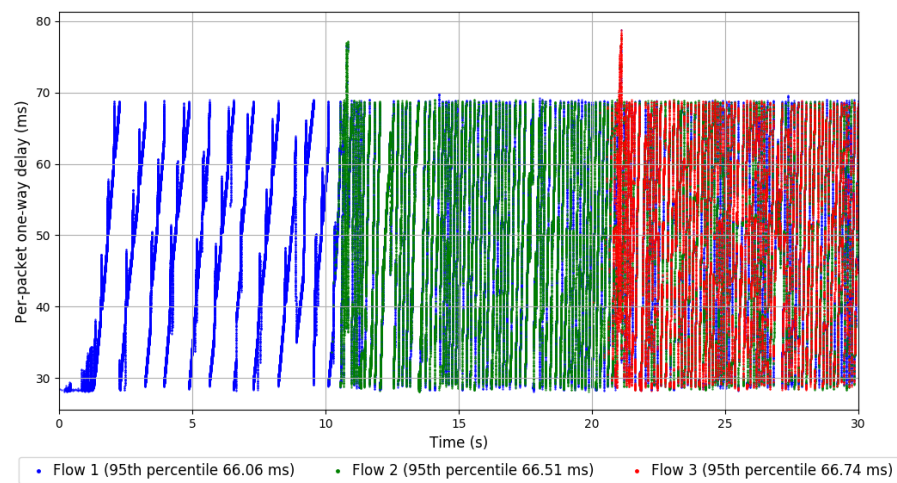
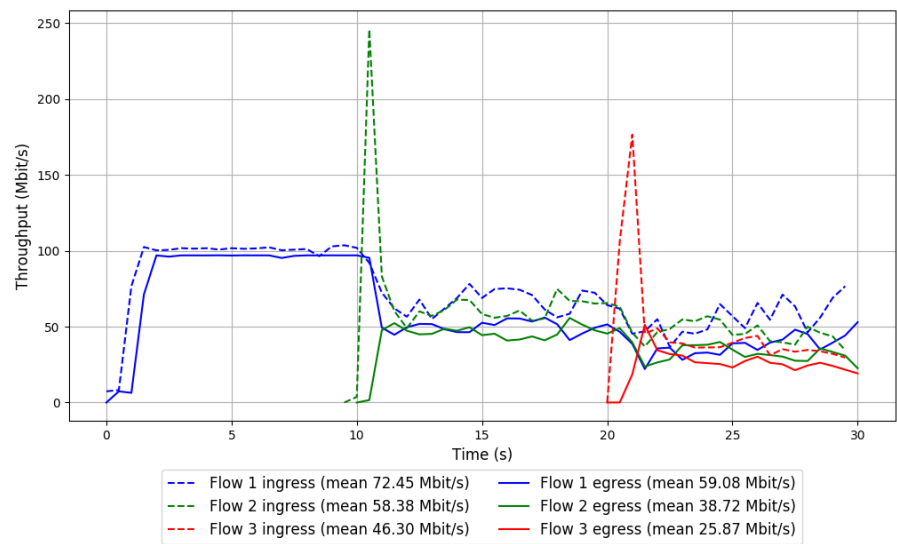
-- Flow 3:

Average throughput: 25.87 Mbit/s

95th percentile per-packet one-way delay: 66.737 ms

Loss rate: 44.16%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-18 17:52:21

End at: 2018-06-18 17:52:51

Local clock offset: 0.33 ms

Remote clock offset: 2.05 ms

Below is generated by plot.py at 2018-06-18 20:01:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.93 Mbit/s

95th percentile per-packet one-way delay: 66.187 ms

Loss rate: 25.14%

-- Flow 1:

Average throughput: 63.70 Mbit/s

95th percentile per-packet one-way delay: 65.908 ms

Loss rate: 19.83%

-- Flow 2:

Average throughput: 37.44 Mbit/s

95th percentile per-packet one-way delay: 66.789 ms

Loss rate: 35.26%

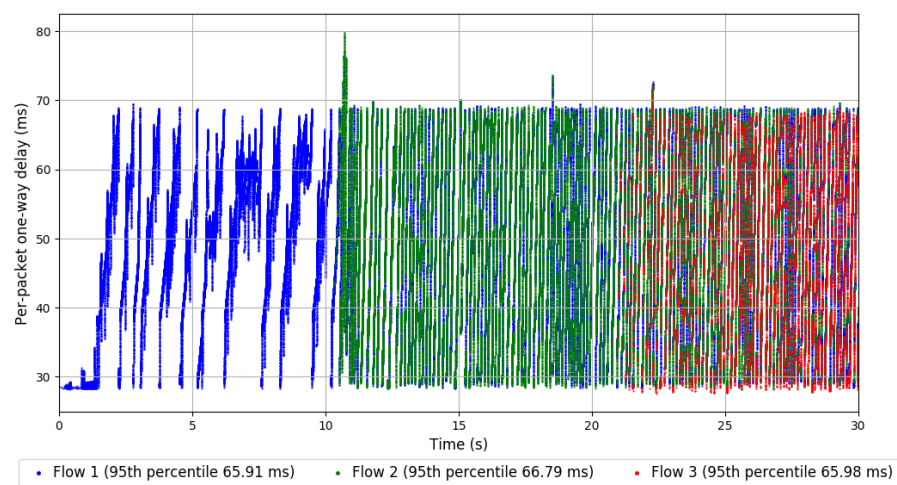
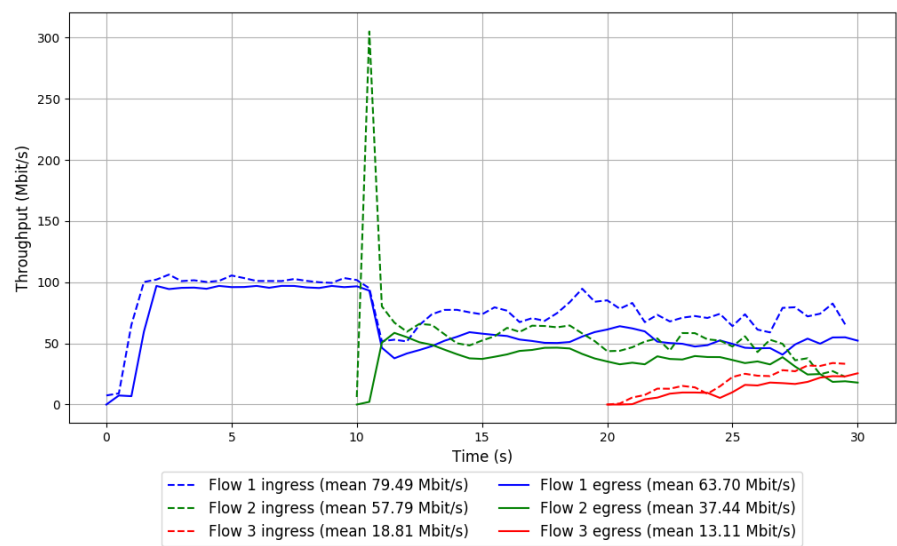
-- Flow 3:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 65.981 ms

Loss rate: 30.41%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-18 18:13:47

End at: 2018-06-18 18:14:17

Local clock offset: -2.038 ms

Remote clock offset: 3.102 ms

Below is generated by plot.py at 2018-06-18 20:01:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.08 Mbit/s

95th percentile per-packet one-way delay: 65.470 ms

Loss rate: 26.49%

-- Flow 1:

Average throughput: 59.91 Mbit/s

95th percentile per-packet one-way delay: 64.821 ms

Loss rate: 19.55%

-- Flow 2:

Average throughput: 35.53 Mbit/s

95th percentile per-packet one-way delay: 66.330 ms

Loss rate: 36.55%

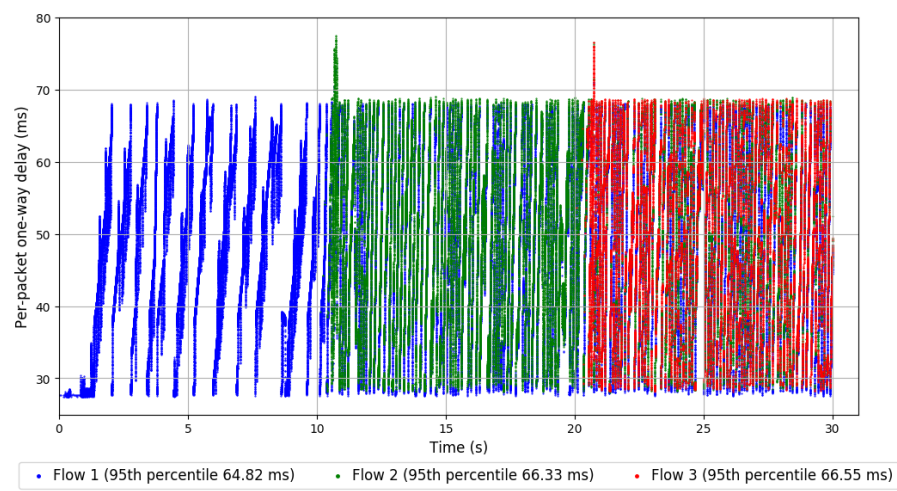
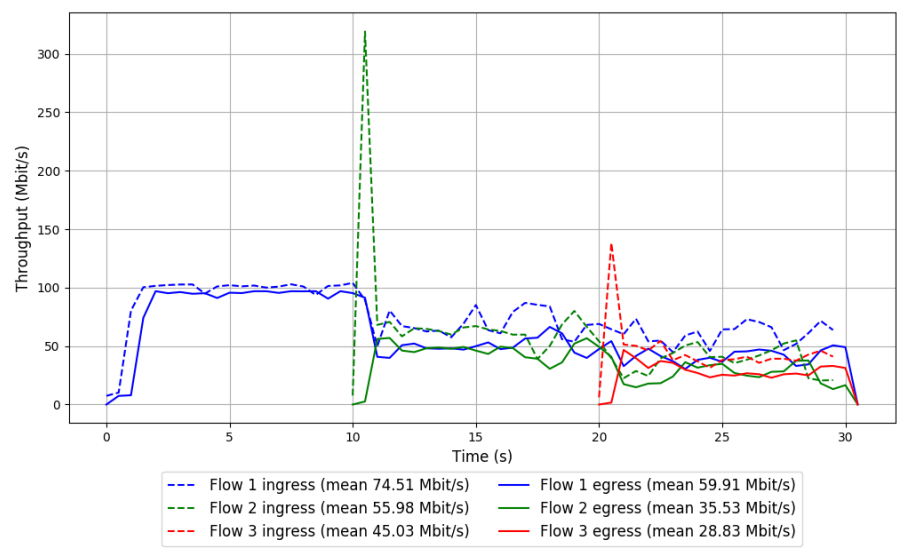
-- Flow 3:

Average throughput: 28.83 Mbit/s

95th percentile per-packet one-way delay: 66.546 ms

Loss rate: 36.01%

Run 6: Report of FillP — Data Link

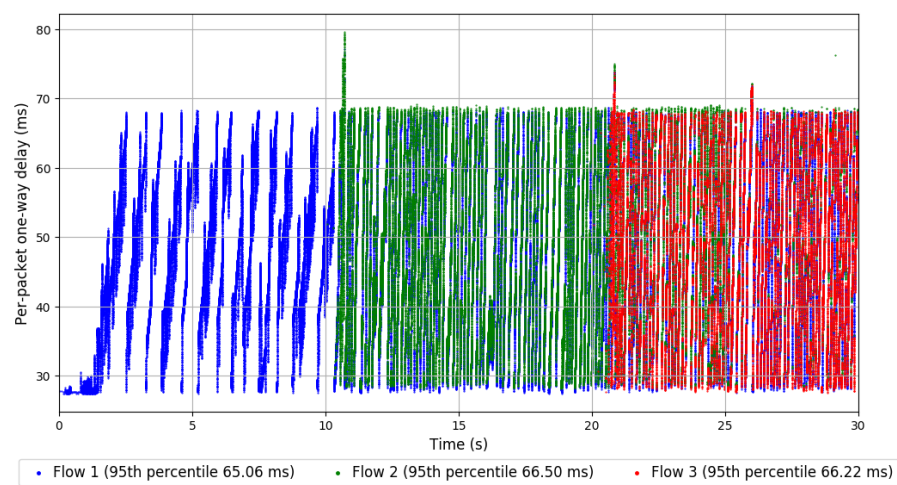
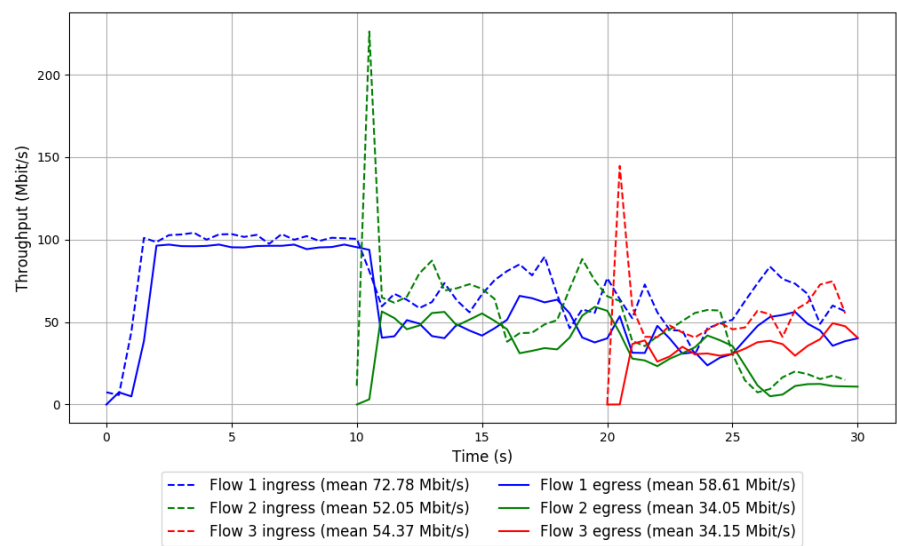


Run 7: Statistics of FillP

Start at: 2018-06-18 18:35:16
End at: 2018-06-18 18:35:46
Local clock offset: -3.607 ms
Remote clock offset: -2.498 ms

Below is generated by plot.py at 2018-06-18 20:01:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.55 Mbit/s
95th percentile per-packet one-way delay: 65.588 ms
Loss rate: 26.23%
-- Flow 1:
Average throughput: 58.61 Mbit/s
95th percentile per-packet one-way delay: 65.062 ms
Loss rate: 19.47%
-- Flow 2:
Average throughput: 34.05 Mbit/s
95th percentile per-packet one-way delay: 66.500 ms
Loss rate: 34.67%
-- Flow 3:
Average throughput: 34.15 Mbit/s
95th percentile per-packet one-way delay: 66.217 ms
Loss rate: 37.32%

Run 7: Report of FillP — Data Link

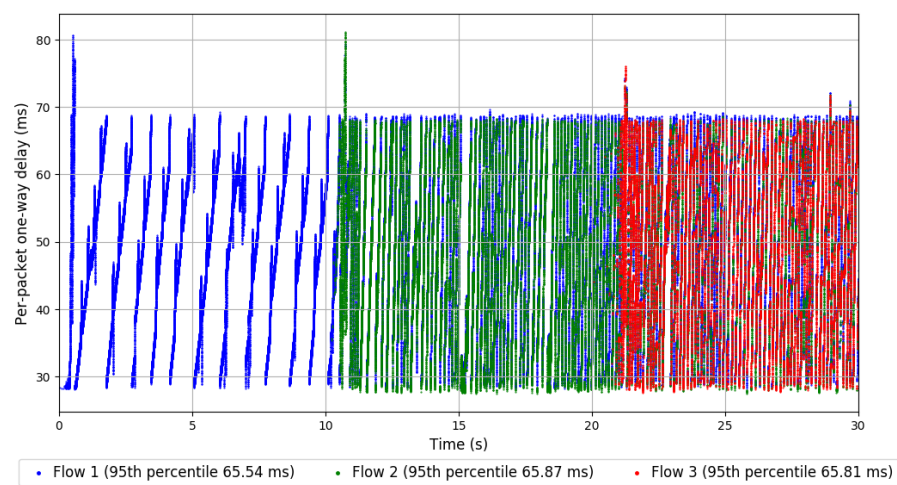
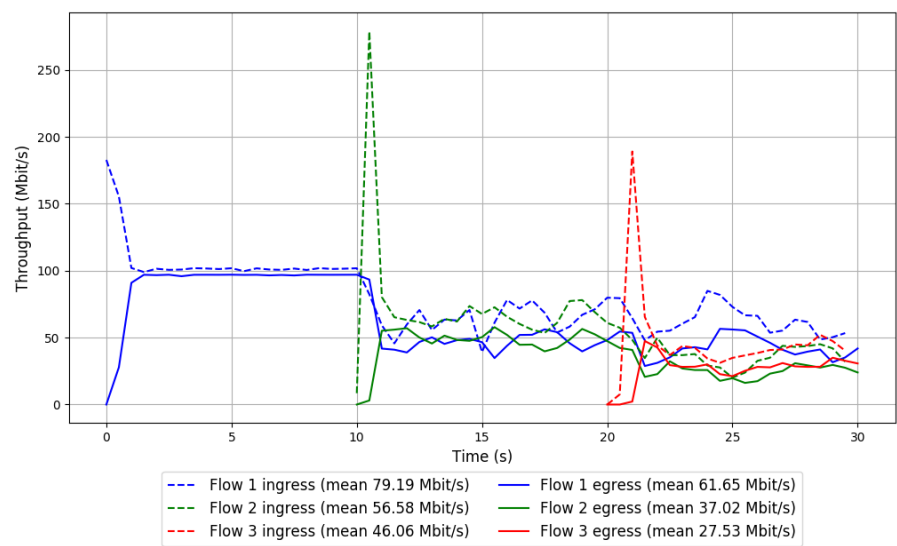


Run 8: Statistics of FillP

Start at: 2018-06-18 18:56:46
End at: 2018-06-18 18:57:16
Local clock offset: -4.185 ms
Remote clock offset: -3.432 ms

```
# Below is generated by plot.py at 2018-06-18 20:01:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.41 Mbit/s
95th percentile per-packet one-way delay: 65.668 ms
Loss rate: 27.77%
-- Flow 1:
Average throughput: 61.65 Mbit/s
95th percentile per-packet one-way delay: 65.540 ms
Loss rate: 22.10%
-- Flow 2:
Average throughput: 37.02 Mbit/s
95th percentile per-packet one-way delay: 65.872 ms
Loss rate: 34.63%
-- Flow 3:
Average throughput: 27.53 Mbit/s
95th percentile per-packet one-way delay: 65.815 ms
Loss rate: 40.22%
```

Run 8: Report of FillP — Data Link

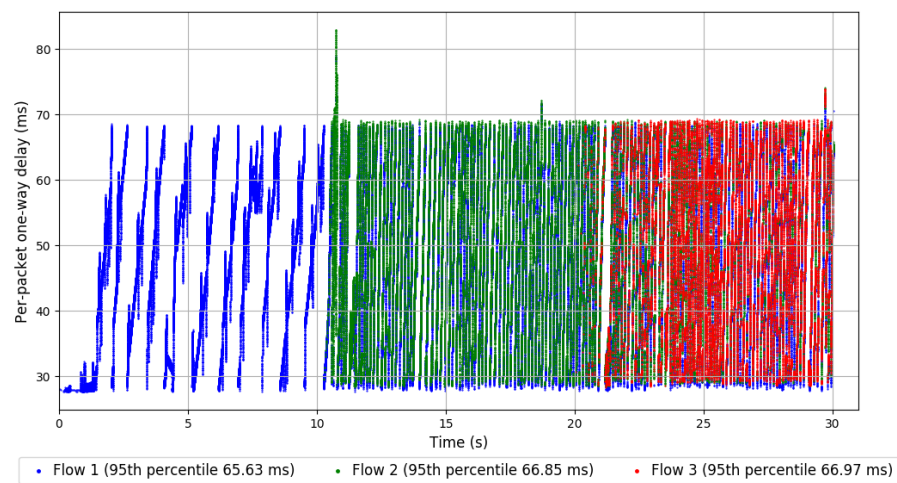
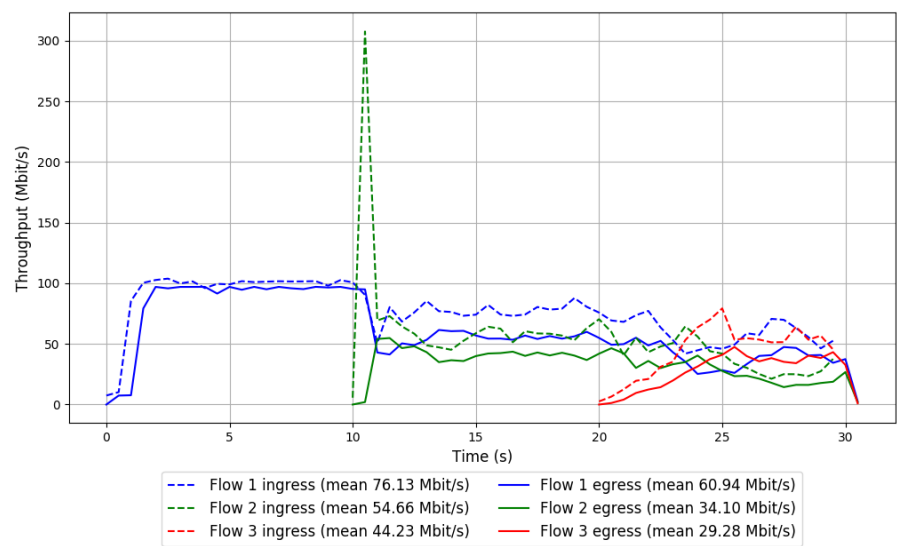


Run 9: Statistics of FillP

Start at: 2018-06-18 19:18:28
End at: 2018-06-18 19:18:58
Local clock offset: -2.543 ms
Remote clock offset: -3.889 ms

Below is generated by plot.py at 2018-06-18 20:02:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 66.133 ms
Loss rate: 26.51%
-- Flow 1:
Average throughput: 60.94 Mbit/s
95th percentile per-packet one-way delay: 65.628 ms
Loss rate: 19.84%
-- Flow 2:
Average throughput: 34.10 Mbit/s
95th percentile per-packet one-way delay: 66.854 ms
Loss rate: 37.59%
-- Flow 3:
Average throughput: 29.28 Mbit/s
95th percentile per-packet one-way delay: 66.971 ms
Loss rate: 33.58%

Run 9: Report of FillP — Data Link

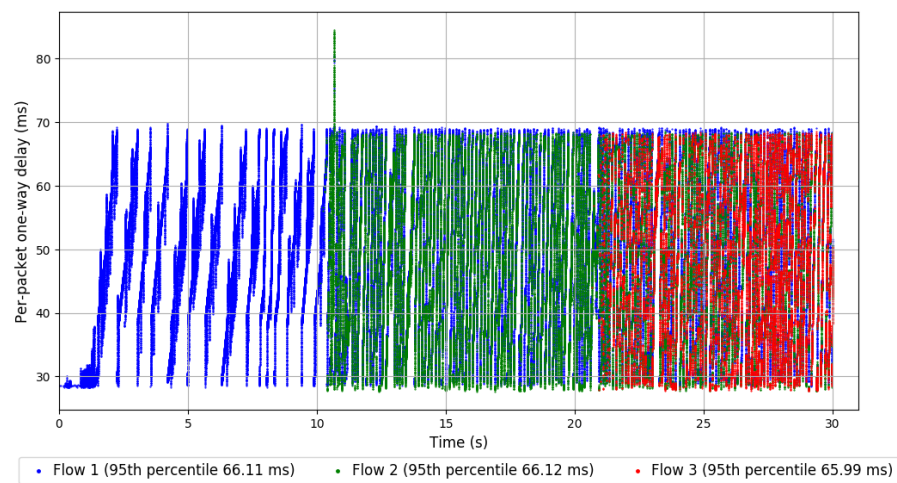
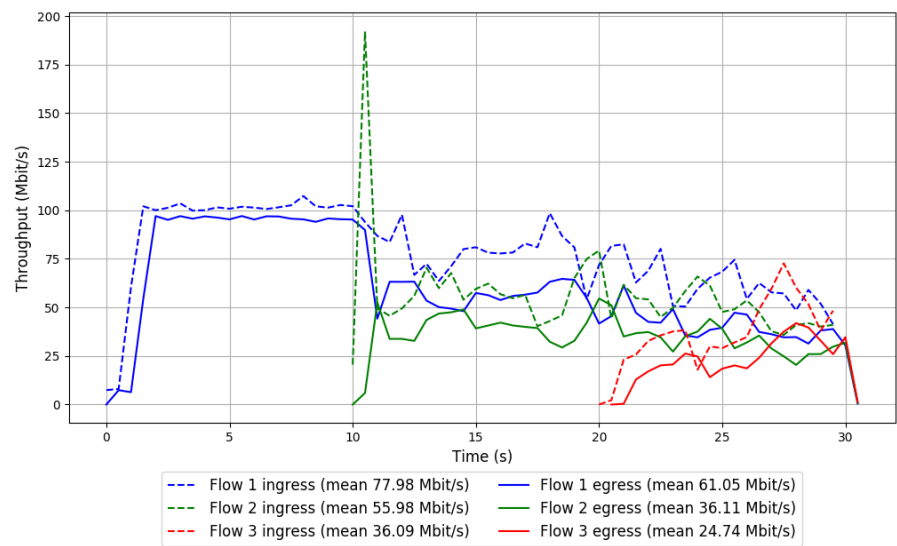


Run 10: Statistics of FillP

Start at: 2018-06-18 19:39:56
End at: 2018-06-18 19:40:26
Local clock offset: -2.142 ms
Remote clock offset: -3.044 ms

Below is generated by plot.py at 2018-06-18 20:03:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.80 Mbit/s
95th percentile per-packet one-way delay: 66.105 ms
Loss rate: 27.01%
-- Flow 1:
Average throughput: 61.05 Mbit/s
95th percentile per-packet one-way delay: 66.113 ms
Loss rate: 21.65%
-- Flow 2:
Average throughput: 36.11 Mbit/s
95th percentile per-packet one-way delay: 66.122 ms
Loss rate: 35.47%
-- Flow 3:
Average throughput: 24.74 Mbit/s
95th percentile per-packet one-way delay: 65.994 ms
Loss rate: 35.57%

Run 10: Report of FillP — Data Link

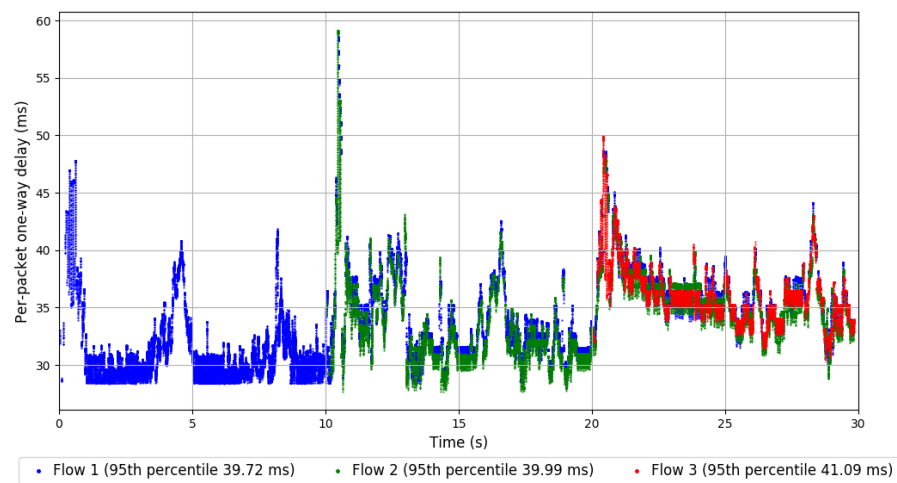
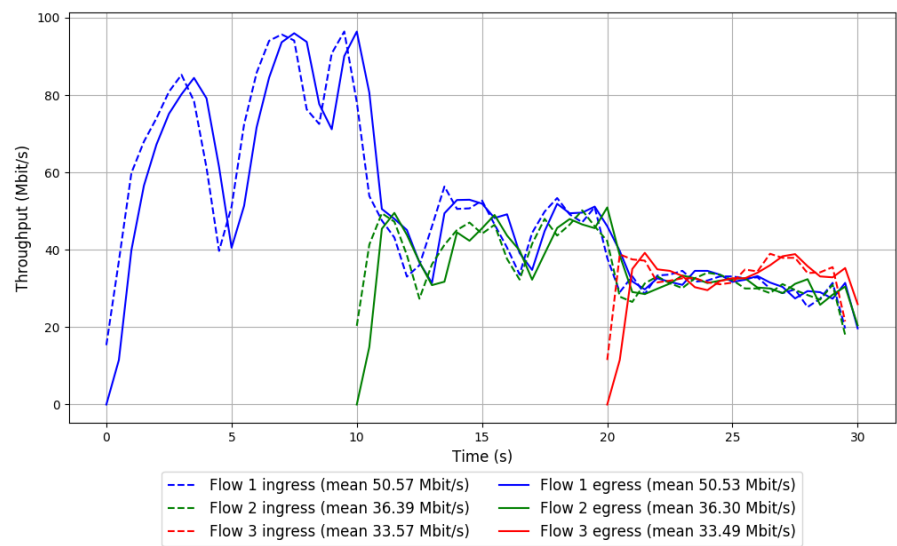


```
Run 1: Statistics of Indigo

Start at: 2018-06-18 16:22:47
End at: 2018-06-18 16:23:17
Local clock offset: -2.829 ms
Remote clock offset: -2.308 ms

# Below is generated by plot.py at 2018-06-18 20:03:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.56 Mbit/s
95th percentile per-packet one-way delay: 39.899 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 50.53 Mbit/s
95th percentile per-packet one-way delay: 39.721 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 36.30 Mbit/s
95th percentile per-packet one-way delay: 39.993 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 41.092 ms
Loss rate: 0.23%
```


Run 1: Report of Indigo — Data Link

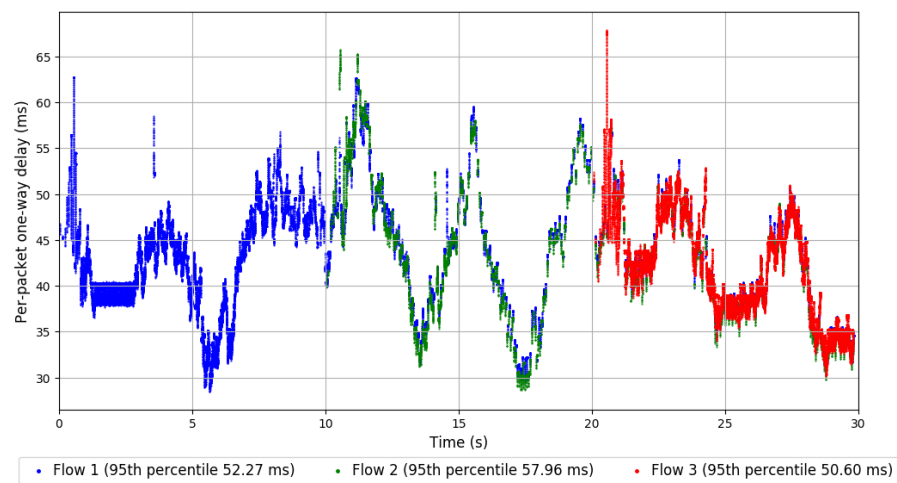
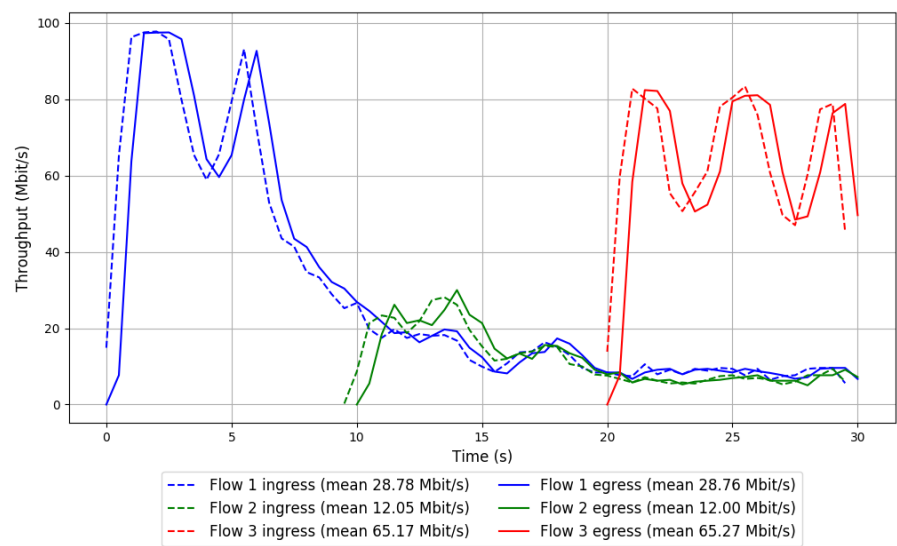


Run 2: Statistics of Indigo

Start at: 2018-06-18 16:44:04
End at: 2018-06-18 16:44:34
Local clock offset: -0.329 ms
Remote clock offset: -2.651 ms

Below is generated by plot.py at 2018-06-18 20:03:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.11 Mbit/s
95th percentile per-packet one-way delay: 52.347 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 28.76 Mbit/s
95th percentile per-packet one-way delay: 52.272 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 12.00 Mbit/s
95th percentile per-packet one-way delay: 57.962 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 65.27 Mbit/s
95th percentile per-packet one-way delay: 50.597 ms
Loss rate: 0.02%

Run 2: Report of Indigo — Data Link

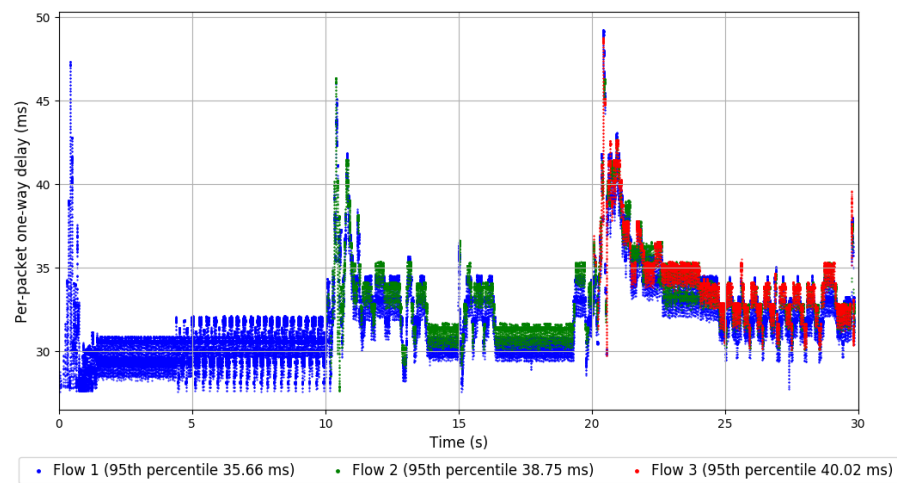
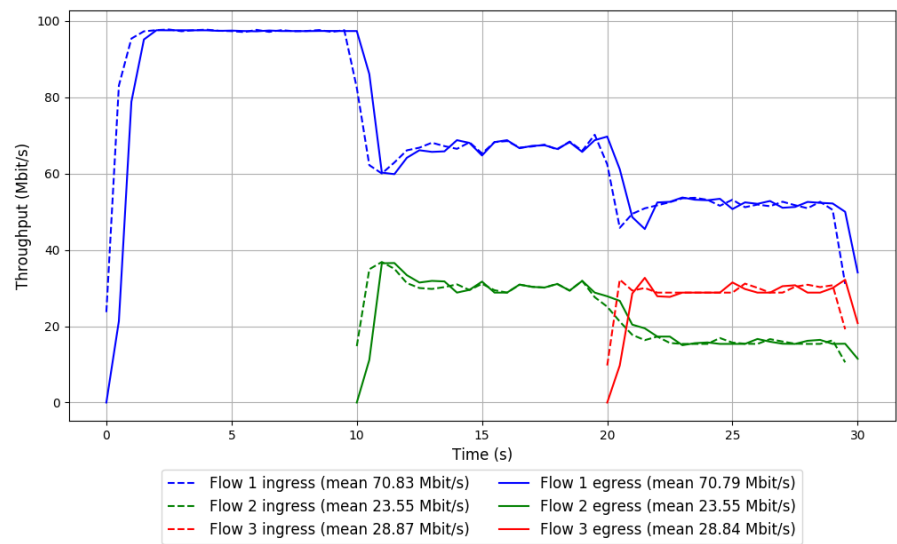


Run 3: Statistics of Indigo

Start at: 2018-06-18 17:05:29
End at: 2018-06-18 17:05:59
Local clock offset: 1.003 ms
Remote clock offset: -2.485 ms

Below is generated by plot.py at 2018-06-18 20:03:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 36.957 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 70.79 Mbit/s
95th percentile per-packet one-way delay: 35.662 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 23.55 Mbit/s
95th percentile per-packet one-way delay: 38.749 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.84 Mbit/s
95th percentile per-packet one-way delay: 40.020 ms
Loss rate: 0.14%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-18 17:26:55

End at: 2018-06-18 17:27:25

Local clock offset: 0.094 ms

Remote clock offset: 0.701 ms

Below is generated by plot.py at 2018-06-18 20:03:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.22 Mbit/s

95th percentile per-packet one-way delay: 38.522 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 64.20 Mbit/s

95th percentile per-packet one-way delay: 36.783 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 29.62 Mbit/s

95th percentile per-packet one-way delay: 39.362 ms

Loss rate: 0.05%

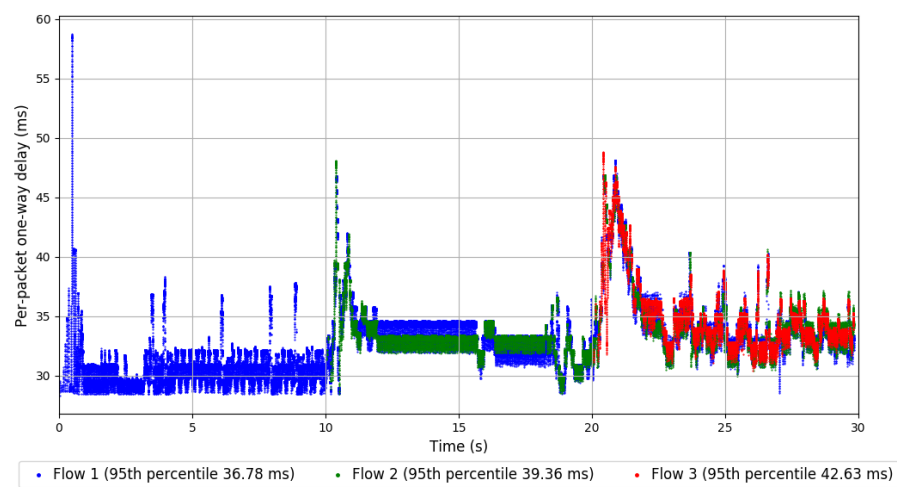
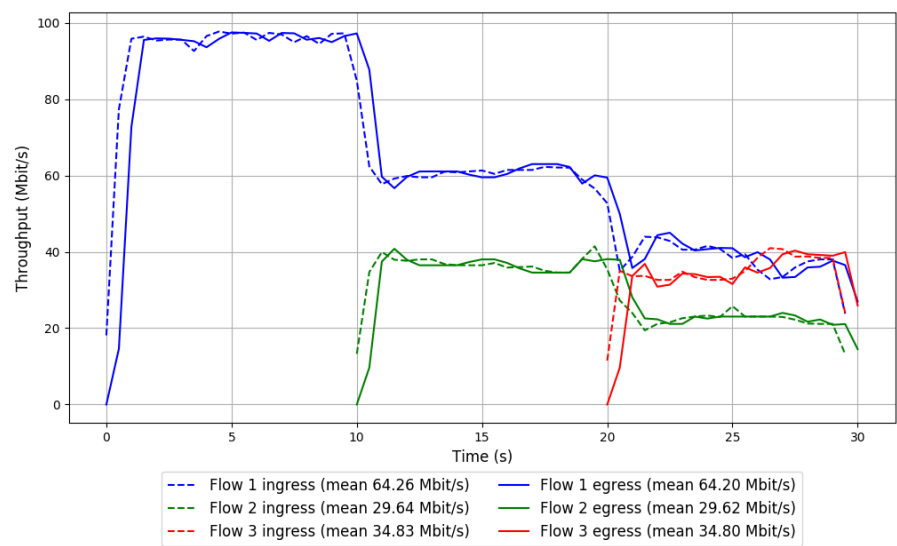
-- Flow 3:

Average throughput: 34.80 Mbit/s

95th percentile per-packet one-way delay: 42.632 ms

Loss rate: 0.05%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-18 17:48:17

End at: 2018-06-18 17:48:47

Local clock offset: 0.23 ms

Remote clock offset: 1.865 ms

Below is generated by plot.py at 2018-06-18 20:03:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 37.857 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.08 Mbit/s

95th percentile per-packet one-way delay: 36.617 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 26.12 Mbit/s

95th percentile per-packet one-way delay: 39.681 ms

Loss rate: 0.00%

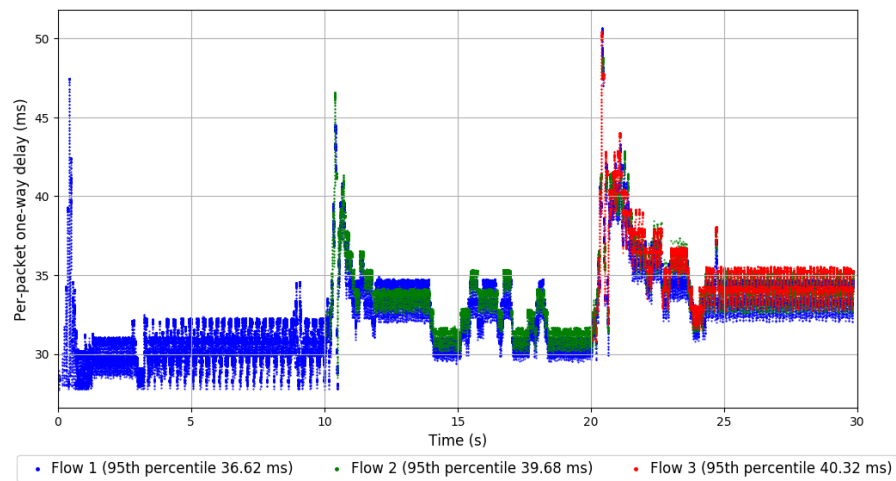
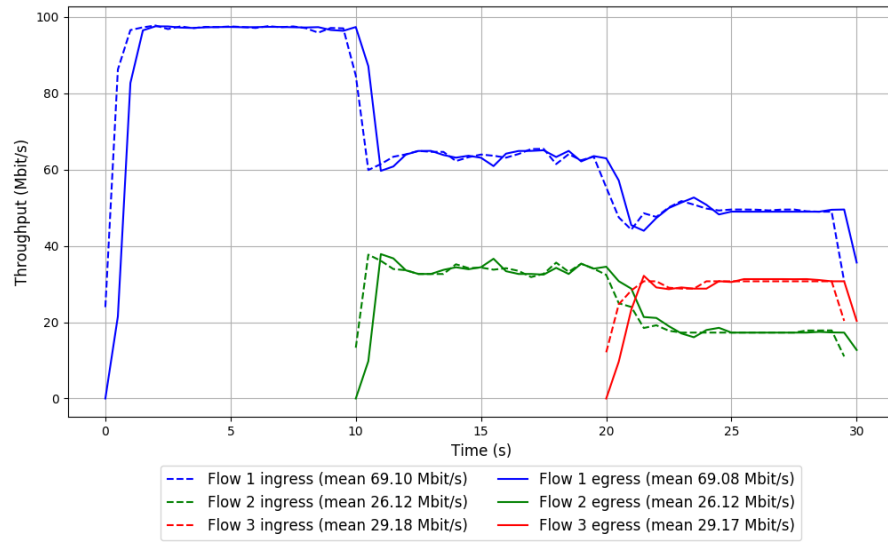
-- Flow 3:

Average throughput: 29.17 Mbit/s

95th percentile per-packet one-way delay: 40.320 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-18 18:09:42

End at: 2018-06-18 18:10:12

Local clock offset: -1.345 ms

Remote clock offset: 2.833 ms

Below is generated by plot.py at 2018-06-18 20:03:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 38.579 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 66.65 Mbit/s

95th percentile per-packet one-way delay: 36.865 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 25.00 Mbit/s

95th percentile per-packet one-way delay: 39.746 ms

Loss rate: 0.04%

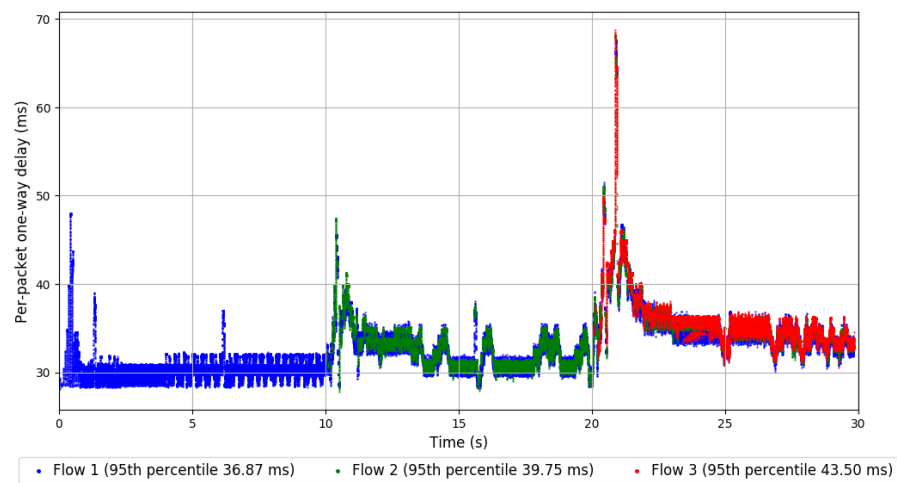
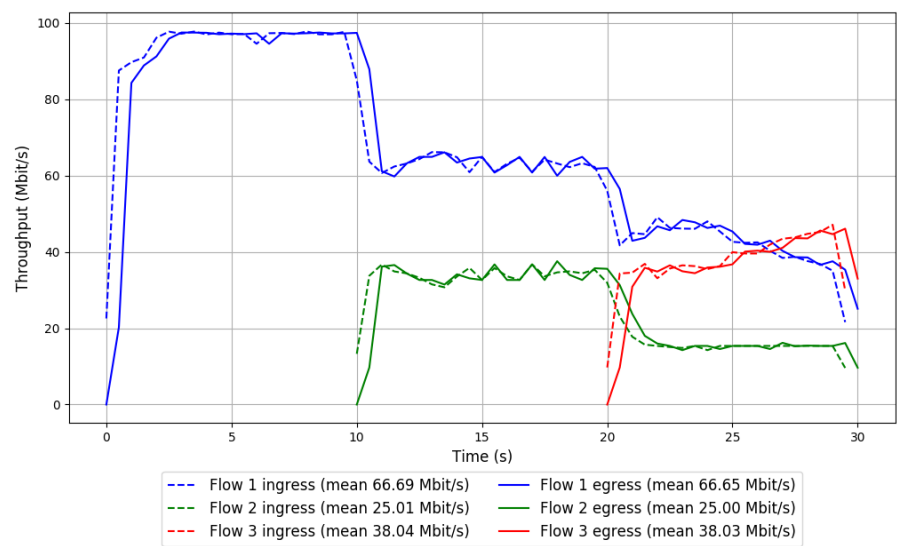
-- Flow 3:

Average throughput: 38.03 Mbit/s

95th percentile per-packet one-way delay: 43.499 ms

Loss rate: 0.02%

Run 6: Report of Indigo — Data Link

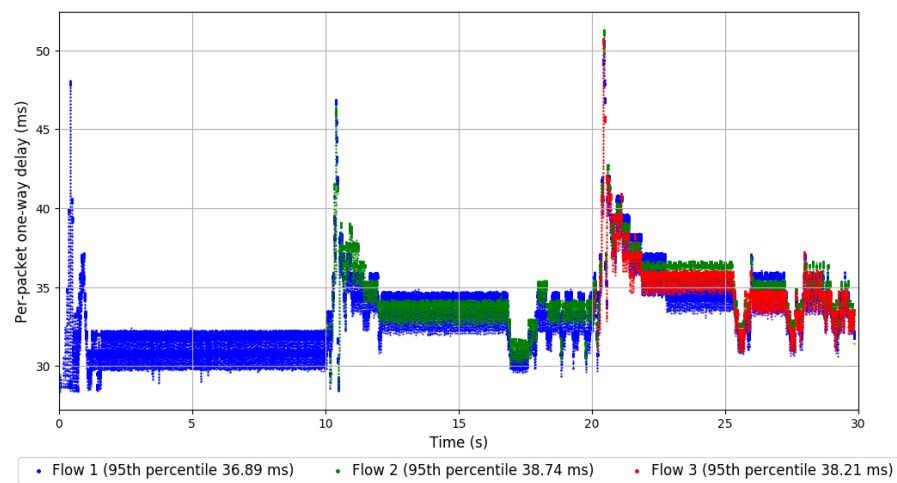
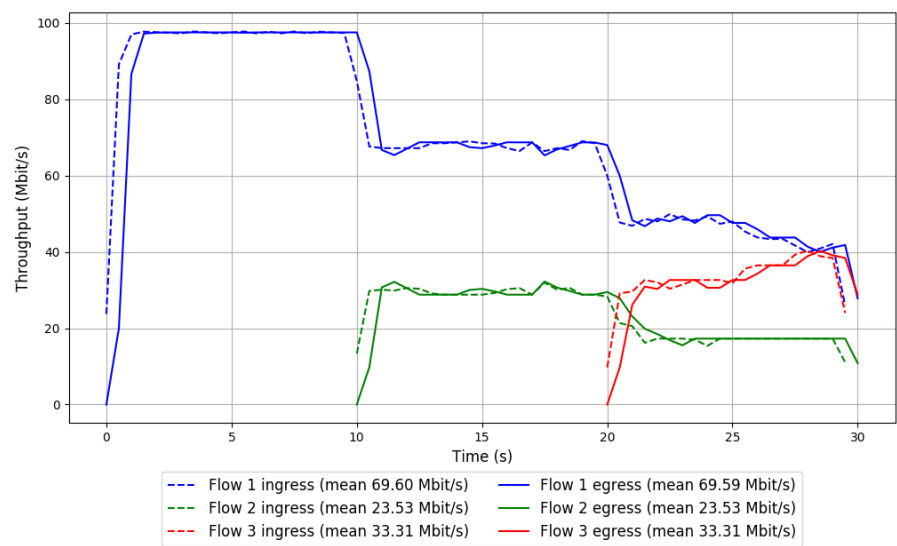


Run 7: Statistics of Indigo

Start at: 2018-06-18 18:31:11
End at: 2018-06-18 18:31:41
Local clock offset: -3.448 ms
Remote clock offset: -1.997 ms

Below is generated by plot.py at 2018-06-18 20:03:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 37.468 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 69.59 Mbit/s
95th percentile per-packet one-way delay: 36.894 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.53 Mbit/s
95th percentile per-packet one-way delay: 38.743 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 33.31 Mbit/s
95th percentile per-packet one-way delay: 38.208 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

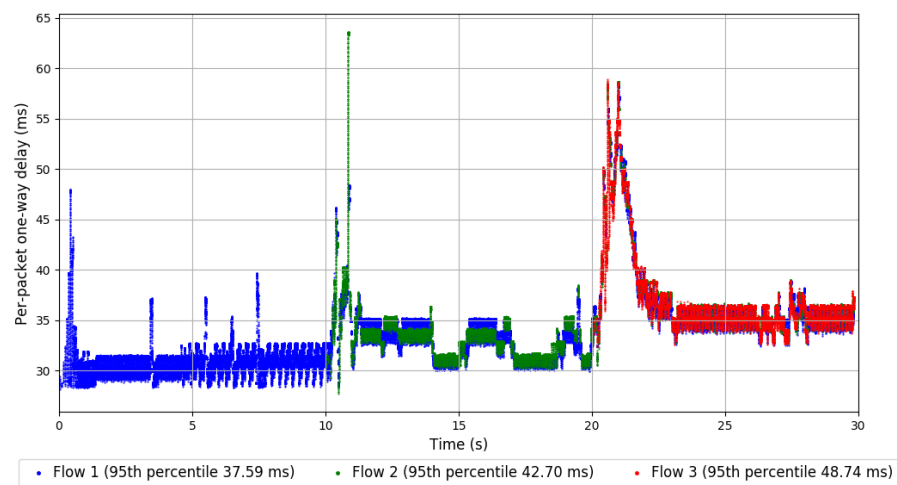
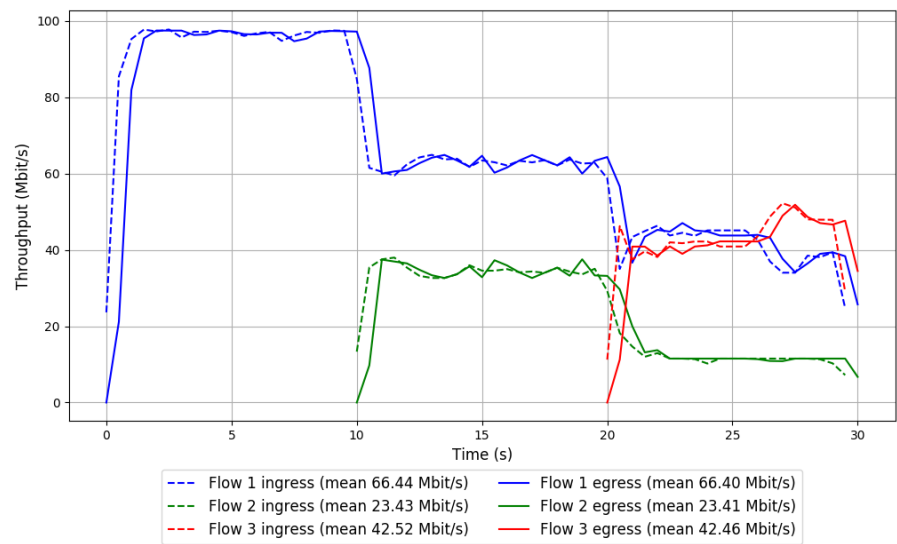


Run 8: Statistics of Indigo

Start at: 2018-06-18 18:52:42
End at: 2018-06-18 18:53:12
Local clock offset: -4.095 ms
Remote clock offset: -3.353 ms

Below is generated by plot.py at 2018-06-18 20:04:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 40.222 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 66.40 Mbit/s
95th percentile per-packet one-way delay: 37.586 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 42.698 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 42.46 Mbit/s
95th percentile per-packet one-way delay: 48.736 ms
Loss rate: 0.11%

Run 8: Report of Indigo — Data Link

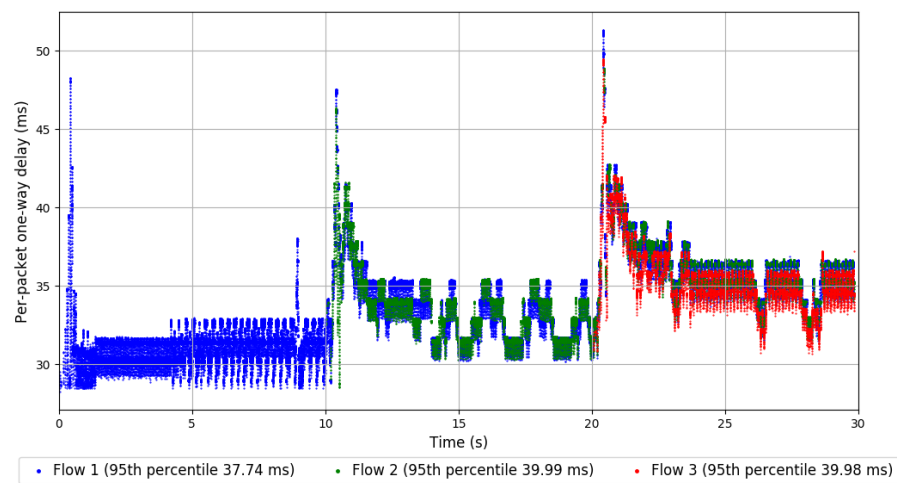
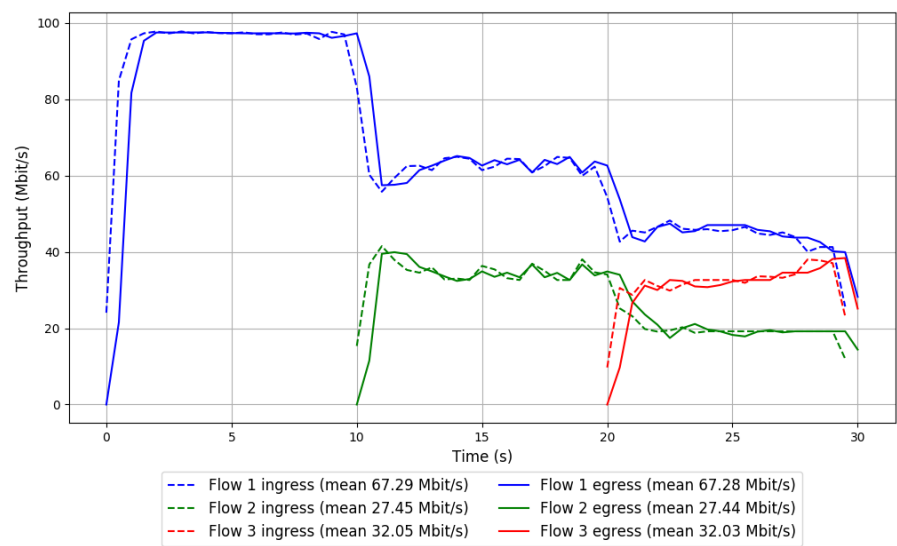


Run 9: Statistics of Indigo

Start at: 2018-06-18 19:14:23
End at: 2018-06-18 19:14:53
Local clock offset: -2.878 ms
Remote clock offset: -3.942 ms

Below is generated by plot.py at 2018-06-18 20:04:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 38.761 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.28 Mbit/s
95th percentile per-packet one-way delay: 37.744 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.44 Mbit/s
95th percentile per-packet one-way delay: 39.993 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.03 Mbit/s
95th percentile per-packet one-way delay: 39.981 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

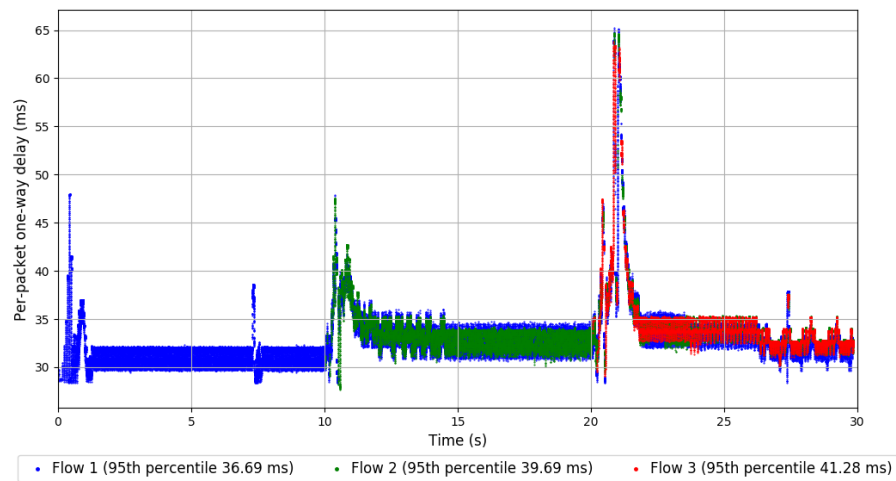
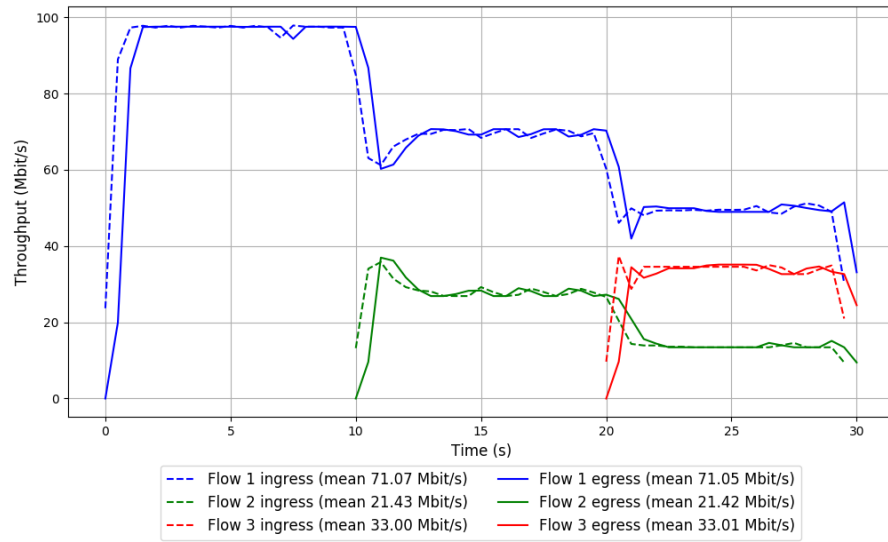


Run 10: Statistics of Indigo

Start at: 2018-06-18 19:35:53
End at: 2018-06-18 19:36:23
Local clock offset: -1.932 ms
Remote clock offset: -3.209 ms

Below is generated by plot.py at 2018-06-18 20:04:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 37.715 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 71.05 Mbit/s
95th percentile per-packet one-way delay: 36.692 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 21.42 Mbit/s
95th percentile per-packet one-way delay: 39.690 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 33.01 Mbit/s
95th percentile per-packet one-way delay: 41.278 ms
Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

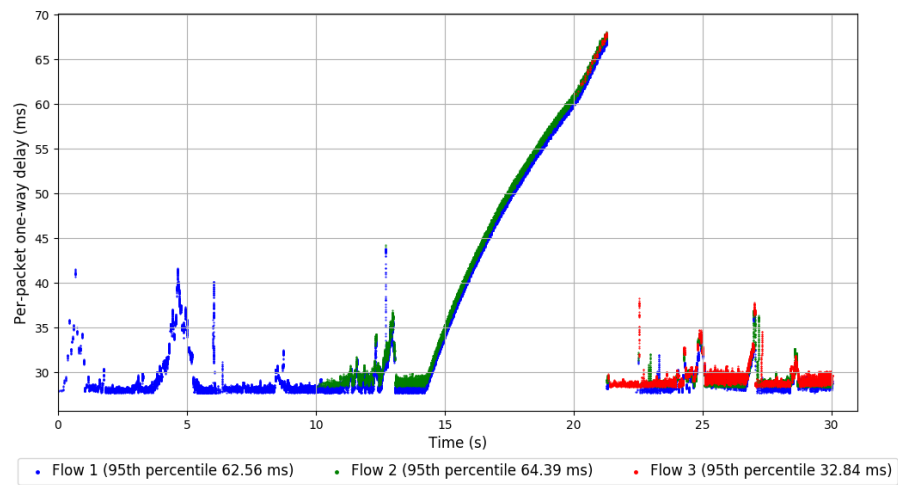
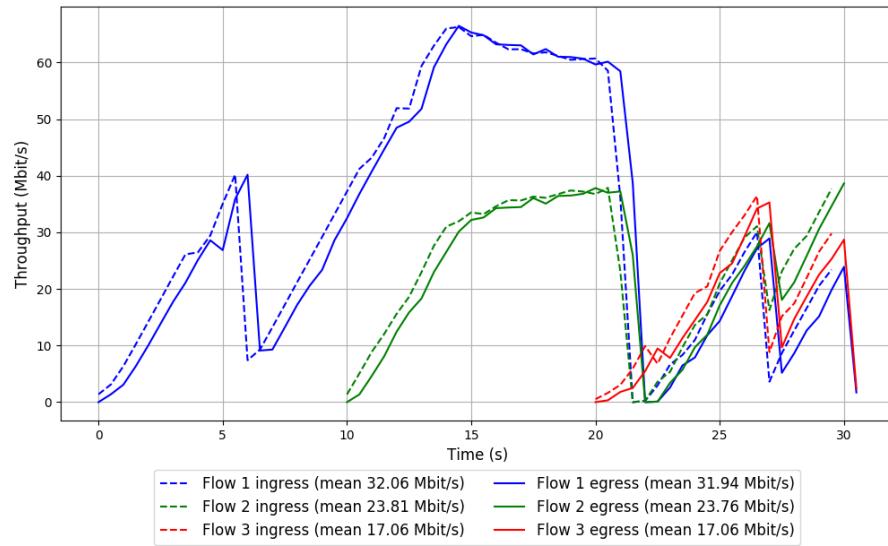


Run 1: Statistics of LEDBAT

Start at: 2018-06-18 16:17:23
End at: 2018-06-18 16:17:53
Local clock offset: -2.784 ms
Remote clock offset: -2.341 ms

Below is generated by plot.py at 2018-06-18 20:04:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.40 Mbit/s
95th percentile per-packet one-way delay: 62.772 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 31.94 Mbit/s
95th percentile per-packet one-way delay: 62.563 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 23.76 Mbit/s
95th percentile per-packet one-way delay: 64.390 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 17.06 Mbit/s
95th percentile per-packet one-way delay: 32.844 ms
Loss rate: 0.32%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-18 16:38:43

End at: 2018-06-18 16:39:13

Local clock offset: -1.438 ms

Remote clock offset: -2.54 ms

Below is generated by plot.py at 2018-06-18 20:04:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.15 Mbit/s

95th percentile per-packet one-way delay: 47.100 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 18.91 Mbit/s

95th percentile per-packet one-way delay: 46.731 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 19.24 Mbit/s

95th percentile per-packet one-way delay: 47.483 ms

Loss rate: 0.23%

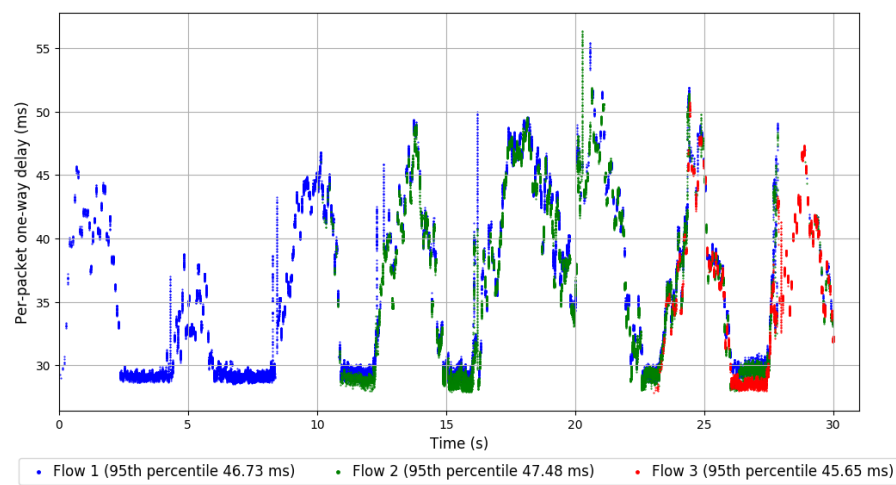
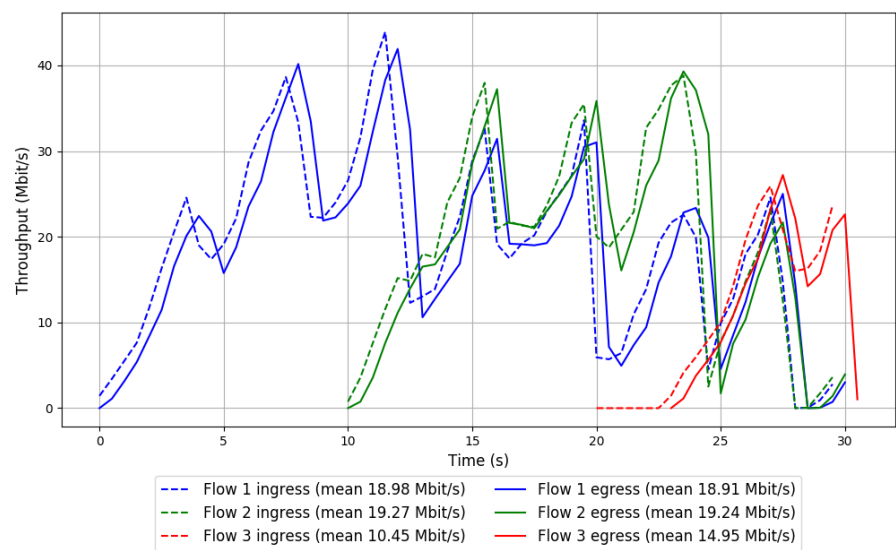
-- Flow 3:

Average throughput: 14.95 Mbit/s

95th percentile per-packet one-way delay: 45.652 ms

Loss rate: 0.09%

Run 2: Report of LEDBAT — Data Link

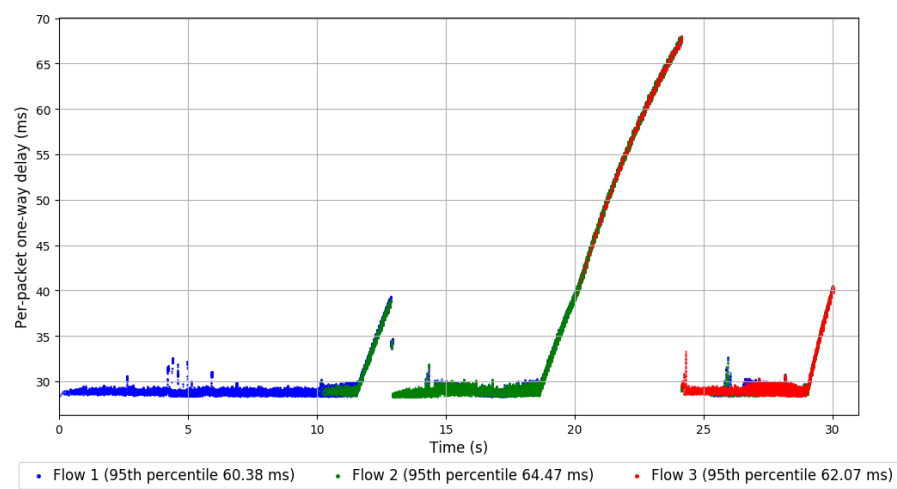
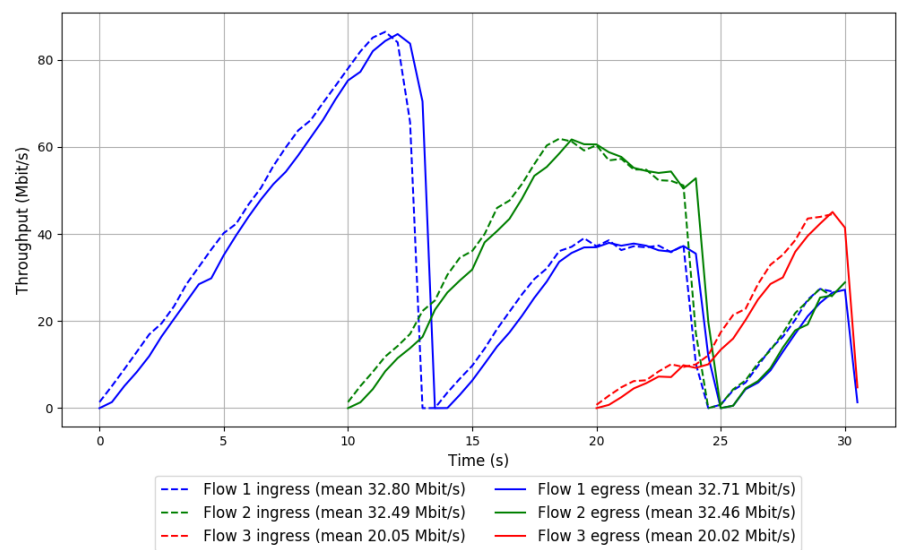


Run 3: Statistics of LEDBAT

Start at: 2018-06-18 17:00:05
End at: 2018-06-18 17:00:35
Local clock offset: 1.027 ms
Remote clock offset: -2.583 ms

Below is generated by plot.py at 2018-06-18 20:04:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.92 Mbit/s
95th percentile per-packet one-way delay: 62.807 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 32.71 Mbit/s
95th percentile per-packet one-way delay: 60.377 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 32.46 Mbit/s
95th percentile per-packet one-way delay: 64.467 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 20.02 Mbit/s
95th percentile per-packet one-way delay: 62.068 ms
Loss rate: 0.18%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-18 17:21:32

End at: 2018-06-18 17:22:02

Local clock offset: 0.261 ms

Remote clock offset: 0.232 ms

Below is generated by plot.py at 2018-06-18 20:04:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.35 Mbit/s

95th percentile per-packet one-way delay: 52.330 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 40.71 Mbit/s

95th percentile per-packet one-way delay: 49.852 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 27.39 Mbit/s

95th percentile per-packet one-way delay: 54.741 ms

Loss rate: 0.22%

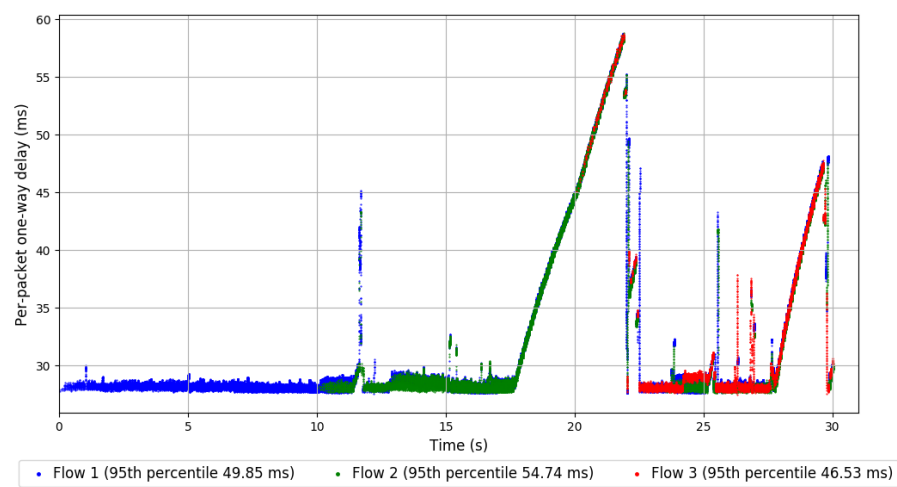
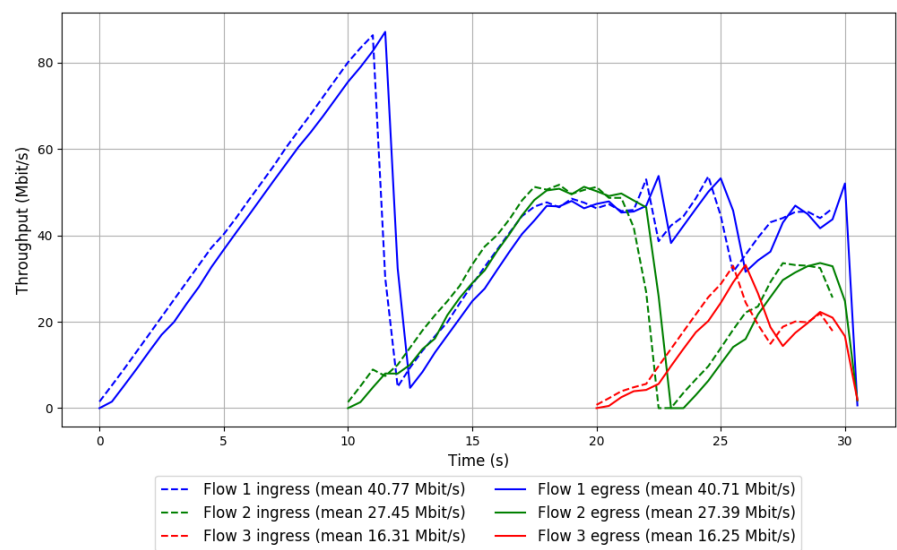
-- Flow 3:

Average throughput: 16.25 Mbit/s

95th percentile per-packet one-way delay: 46.527 ms

Loss rate: 0.52%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-18 17:42:53

End at: 2018-06-18 17:43:23

Local clock offset: 0.183 ms

Remote clock offset: 1.623 ms

Below is generated by plot.py at 2018-06-18 20:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.00 Mbit/s

95th percentile per-packet one-way delay: 64.255 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 41.42 Mbit/s

95th percentile per-packet one-way delay: 64.747 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 24.66 Mbit/s

95th percentile per-packet one-way delay: 64.543 ms

Loss rate: 0.07%

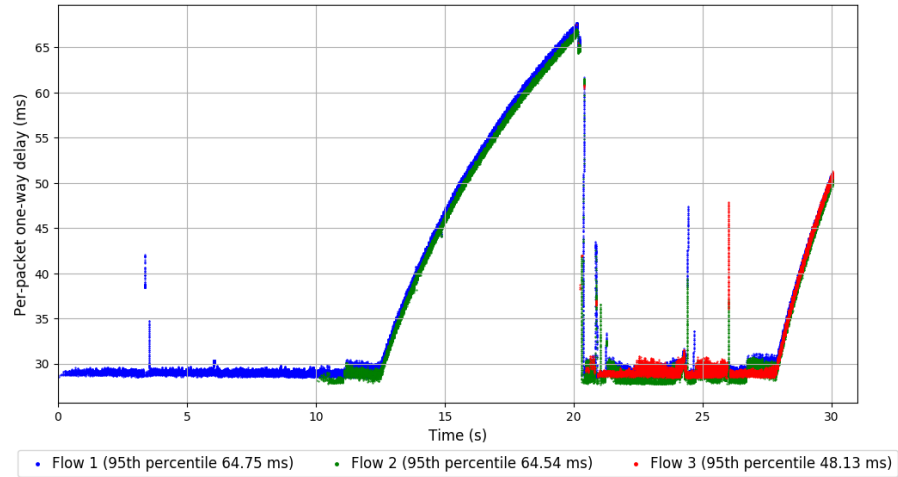
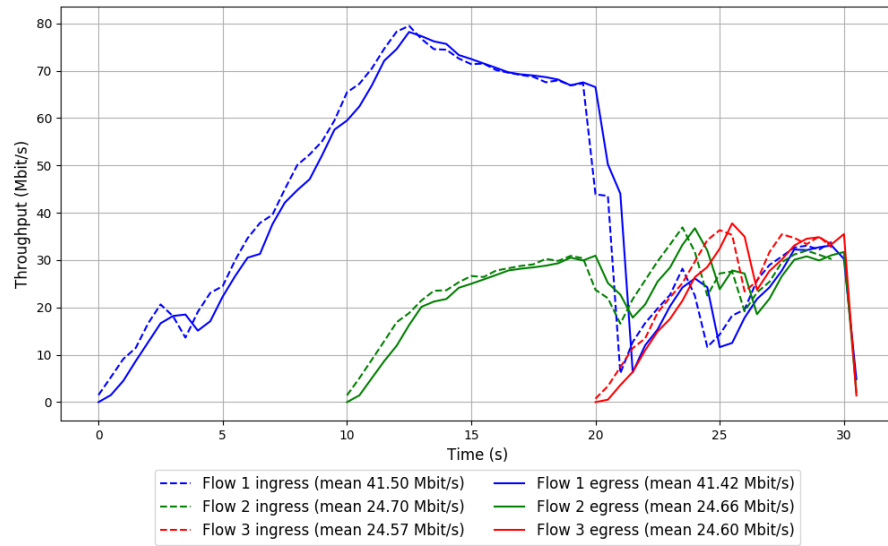
-- Flow 3:

Average throughput: 24.60 Mbit/s

95th percentile per-packet one-way delay: 48.130 ms

Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-18 18:04:19

End at: 2018-06-18 18:04:49

Local clock offset: 0.314 ms

Remote clock offset: 2.571 ms

Below is generated by plot.py at 2018-06-18 20:04:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.72 Mbit/s

95th percentile per-packet one-way delay: 60.912 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 29.14 Mbit/s

95th percentile per-packet one-way delay: 58.652 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 30.08 Mbit/s

95th percentile per-packet one-way delay: 62.306 ms

Loss rate: 0.11%

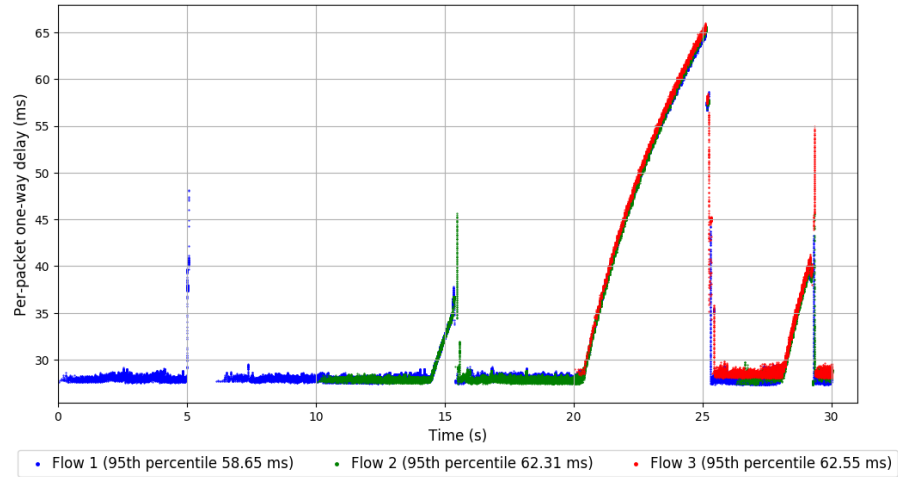
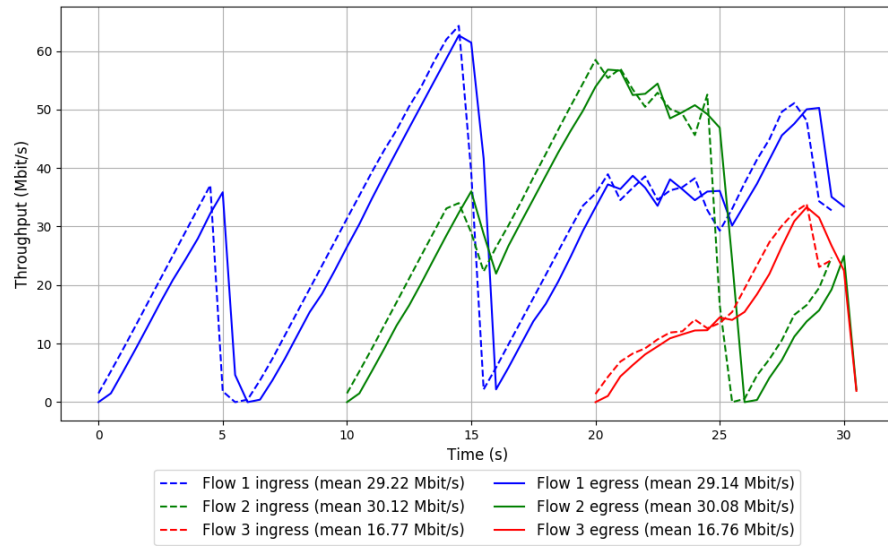
-- Flow 3:

Average throughput: 16.76 Mbit/s

95th percentile per-packet one-way delay: 62.550 ms

Loss rate: 0.04%

Run 6: Report of LEDBAT — Data Link

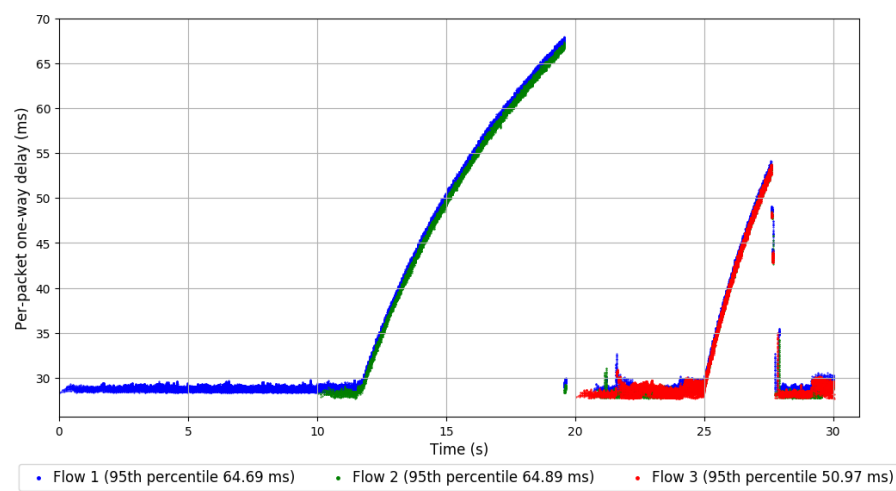
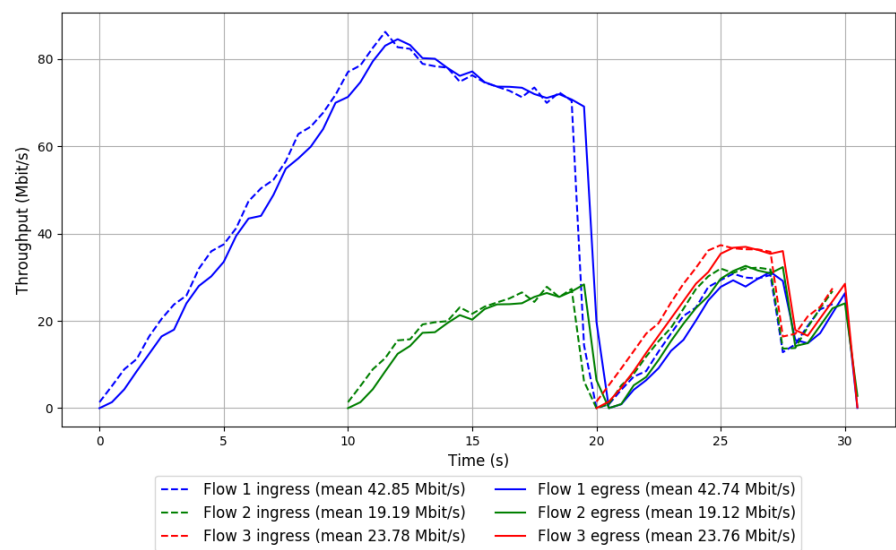


Run 7: Statistics of LEDBAT

Start at: 2018-06-18 18:25:45
End at: 2018-06-18 18:26:15
Local clock offset: -3.18 ms
Remote clock offset: -1.232 ms

Below is generated by plot.py at 2018-06-18 20:04:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.34 Mbit/s
95th percentile per-packet one-way delay: 64.232 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 42.74 Mbit/s
95th percentile per-packet one-way delay: 64.695 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 19.12 Mbit/s
95th percentile per-packet one-way delay: 64.889 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 23.76 Mbit/s
95th percentile per-packet one-way delay: 50.970 ms
Loss rate: 0.10%

Run 7: Report of LEDBAT — Data Link

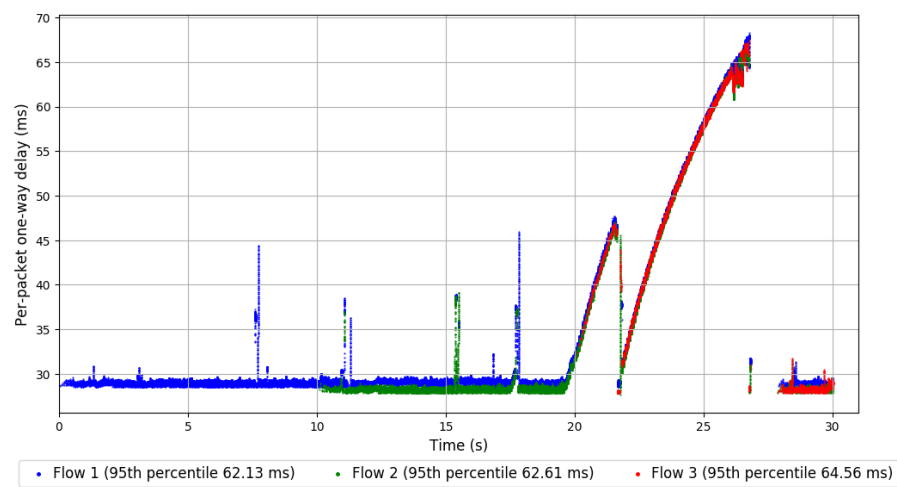
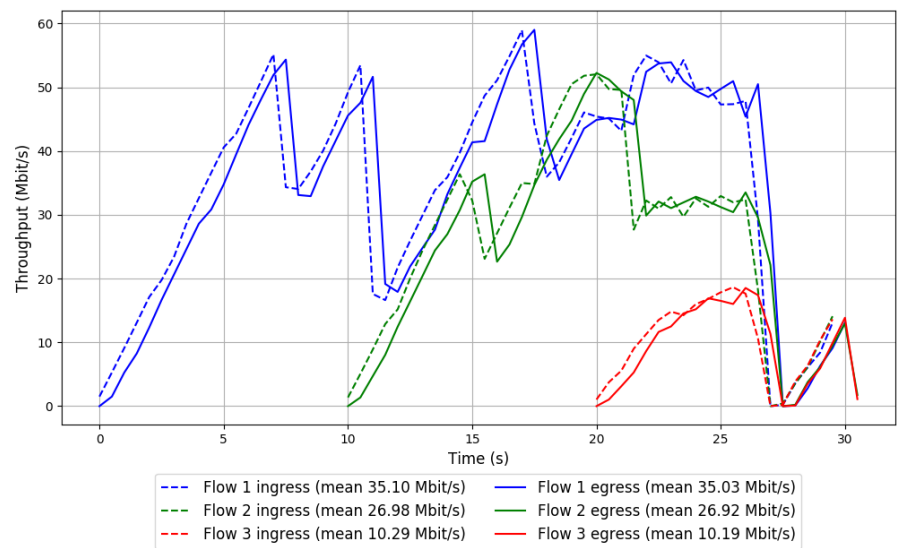


Run 8: Statistics of LEDBAT

Start at: 2018-06-18 18:47:16
End at: 2018-06-18 18:47:46
Local clock offset: -4.047 ms
Remote clock offset: -3.072 ms

Below is generated by plot.py at 2018-06-18 20:04:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.32 Mbit/s
95th percentile per-packet one-way delay: 62.856 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 35.03 Mbit/s
95th percentile per-packet one-way delay: 62.134 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 26.92 Mbit/s
95th percentile per-packet one-way delay: 62.614 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 10.19 Mbit/s
95th percentile per-packet one-way delay: 64.559 ms
Loss rate: 1.03%

Run 8: Report of LEDBAT — Data Link

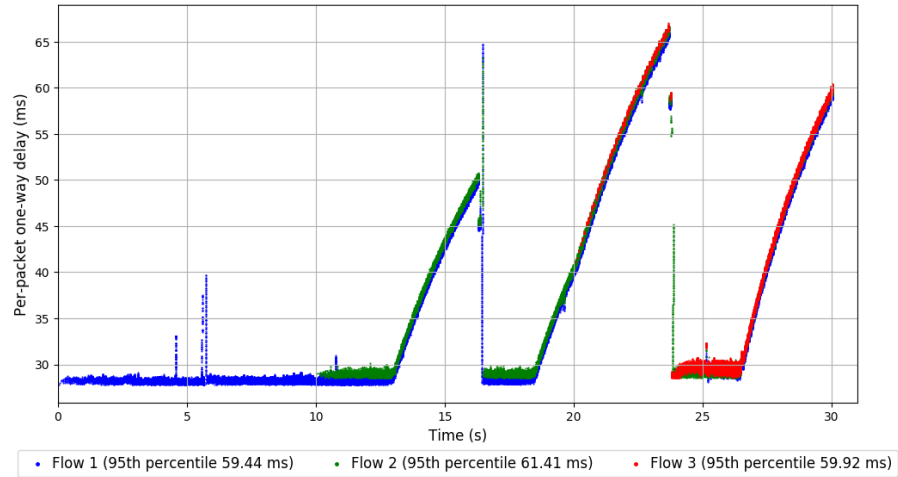
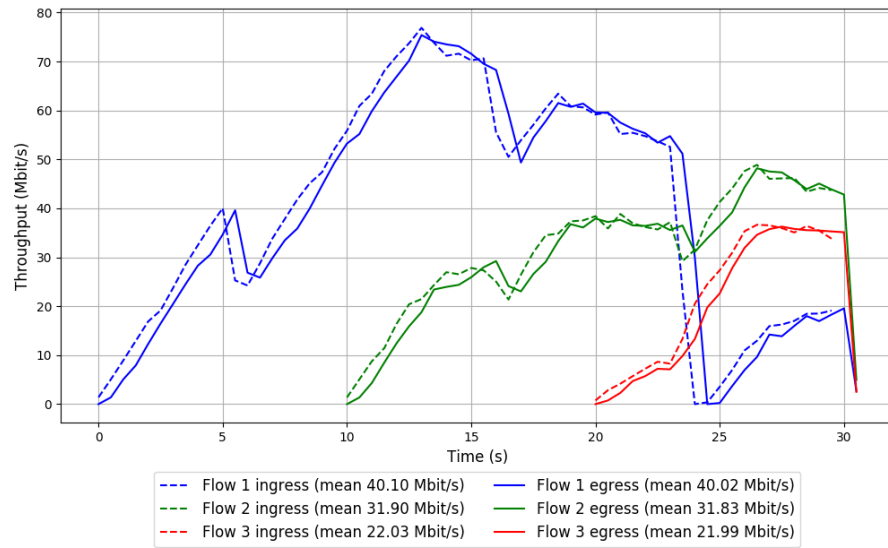


Run 9: Statistics of LEDBAT

Start at: 2018-06-18 19:08:44
End at: 2018-06-18 19:09:14
Local clock offset: -3.44 ms
Remote clock offset: -3.674 ms

Below is generated by plot.py at 2018-06-18 20:04:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.55 Mbit/s
95th percentile per-packet one-way delay: 60.206 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 40.02 Mbit/s
95th percentile per-packet one-way delay: 59.444 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 61.406 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 21.99 Mbit/s
95th percentile per-packet one-way delay: 59.925 ms
Loss rate: 0.02%

Run 9: Report of LEDBAT — Data Link

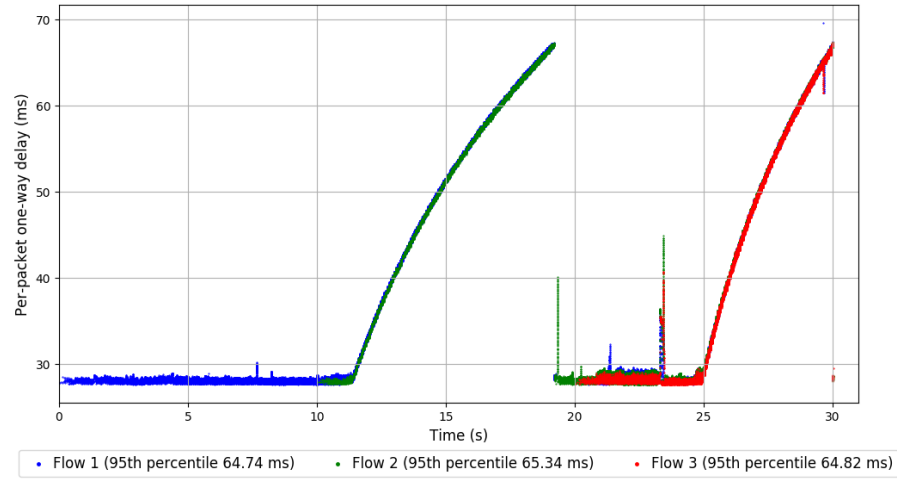
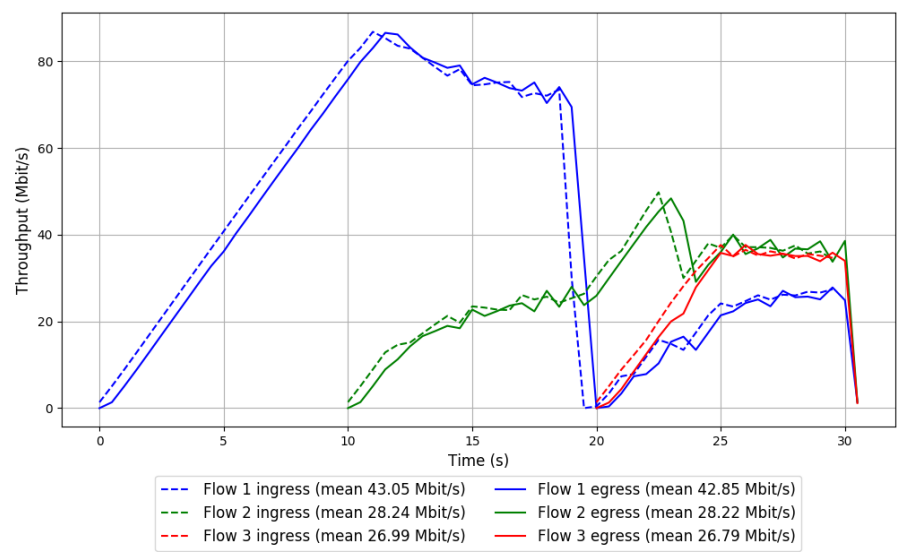


Run 10: Statistics of LEDBAT

Start at: 2018-06-18 19:30:29
End at: 2018-06-18 19:30:59
Local clock offset: -1.979 ms
Remote clock offset: -3.496 ms

Below is generated by plot.py at 2018-06-18 20:05:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.56 Mbit/s
95th percentile per-packet one-way delay: 64.965 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 42.85 Mbit/s
95th percentile per-packet one-way delay: 64.741 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 28.22 Mbit/s
95th percentile per-packet one-way delay: 65.336 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 26.79 Mbit/s
95th percentile per-packet one-way delay: 64.823 ms
Loss rate: 0.70%

Run 10: Report of LEDBAT — Data Link

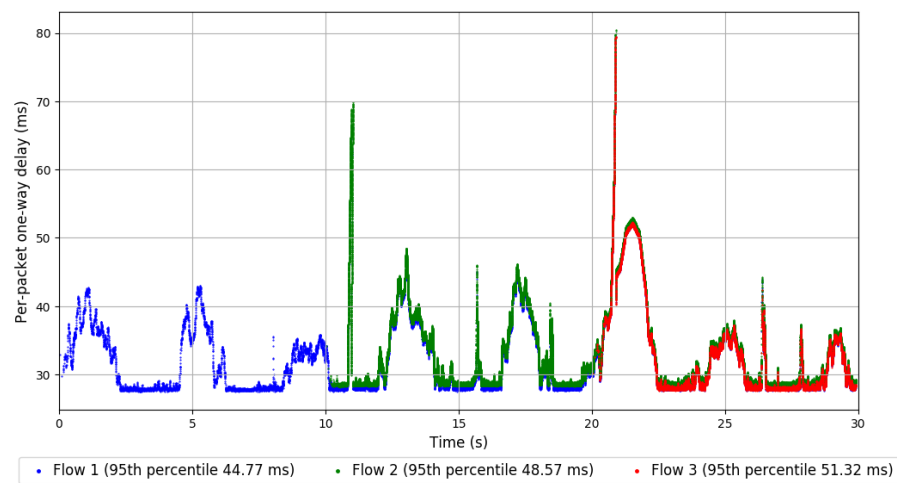
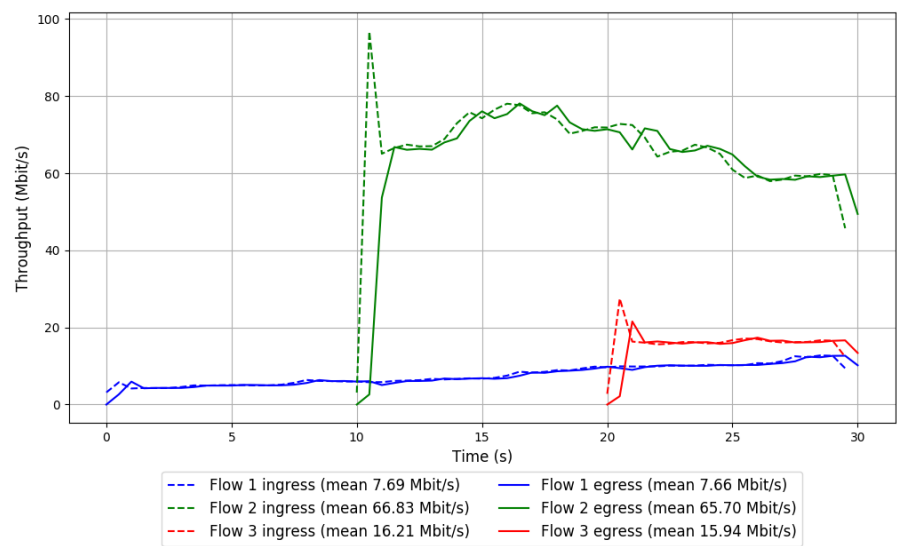


Run 1: Statistics of PCC-Allegro

Start at: 2018-06-18 16:28:10
End at: 2018-06-18 16:28:40
Local clock offset: -2.936 ms
Remote clock offset: -2.379 ms

Below is generated by plot.py at 2018-06-18 20:05:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.59 Mbit/s
95th percentile per-packet one-way delay: 48.888 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 44.765 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 65.70 Mbit/s
95th percentile per-packet one-way delay: 48.573 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 15.94 Mbit/s
95th percentile per-packet one-way delay: 51.316 ms
Loss rate: 1.71%

Run 1: Report of PCC-Allegro — Data Link

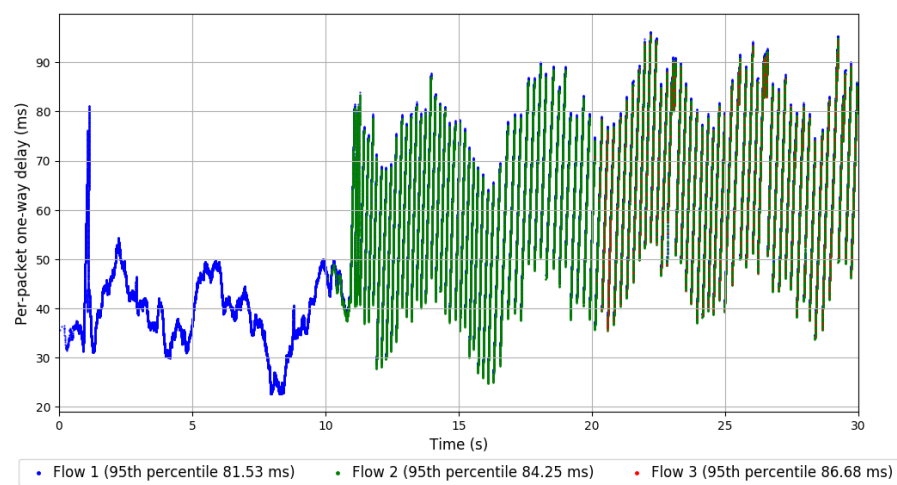
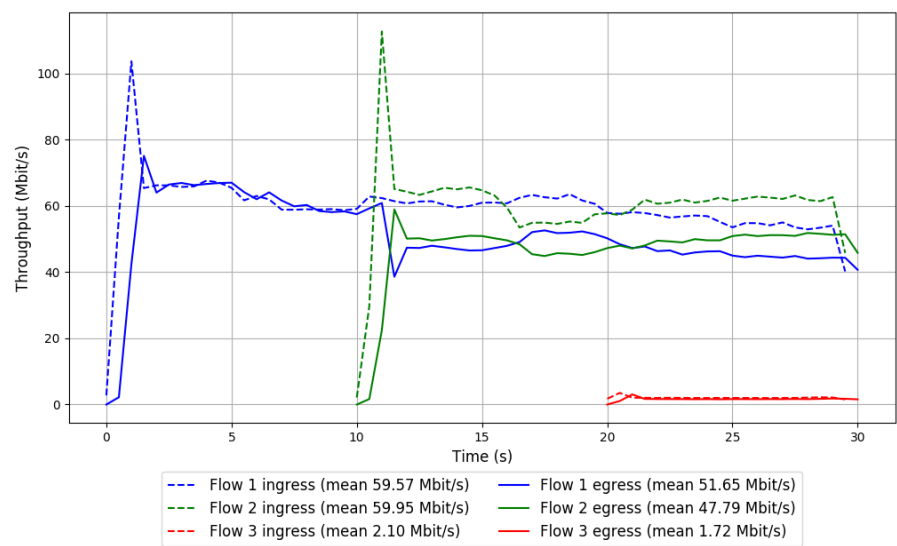


Run 2: Statistics of PCC-Allegro

Start at: 2018-06-18 16:49:25
End at: 2018-06-18 16:49:55
Local clock offset: 0.368 ms
Remote clock offset: -8.378 ms

Below is generated by plot.py at 2018-06-18 20:05:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.99 Mbit/s
95th percentile per-packet one-way delay: 82.915 ms
Loss rate: 15.96%
-- Flow 1:
Average throughput: 51.65 Mbit/s
95th percentile per-packet one-way delay: 81.531 ms
Loss rate: 13.16%
-- Flow 2:
Average throughput: 47.79 Mbit/s
95th percentile per-packet one-way delay: 84.252 ms
Loss rate: 20.12%
-- Flow 3:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 86.678 ms
Loss rate: 17.90%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-18 17:10:53

End at: 2018-06-18 17:11:23

Local clock offset: 0.63 ms

Remote clock offset: -1.23 ms

Below is generated by plot.py at 2018-06-18 20:05:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.86 Mbit/s

95th percentile per-packet one-way delay: 45.477 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 79.47 Mbit/s

95th percentile per-packet one-way delay: 45.364 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 11.11 Mbit/s

95th percentile per-packet one-way delay: 45.466 ms

Loss rate: 1.15%

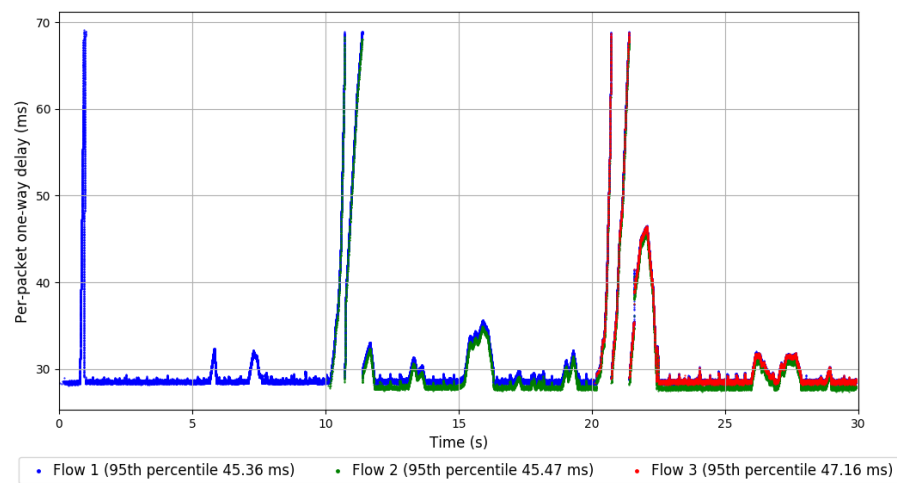
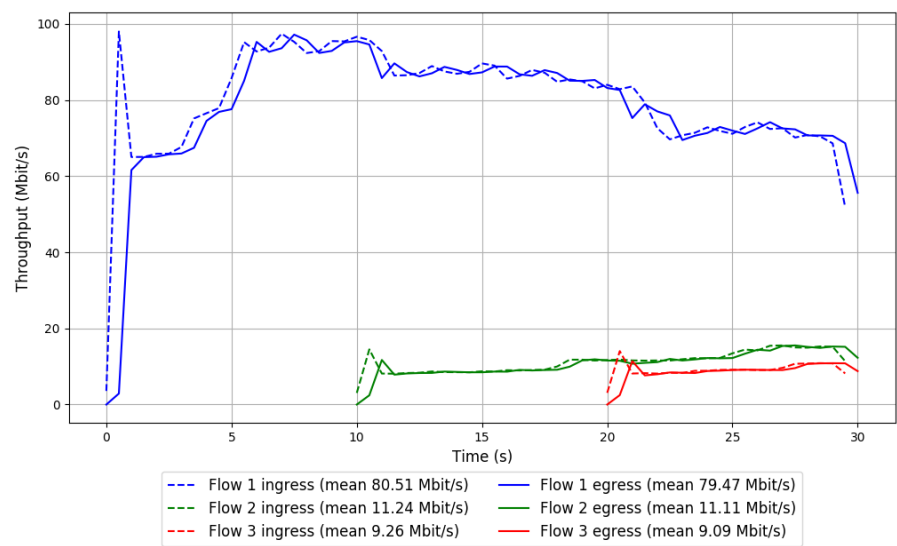
-- Flow 3:

Average throughput: 9.09 Mbit/s

95th percentile per-packet one-way delay: 47.159 ms

Loss rate: 1.80%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-18 17:32:18

End at: 2018-06-18 17:32:48

Local clock offset: 0.111 ms

Remote clock offset: 1.04 ms

Below is generated by plot.py at 2018-06-18 20:05:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.57 Mbit/s

95th percentile per-packet one-way delay: 40.854 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 80.94 Mbit/s

95th percentile per-packet one-way delay: 40.111 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 10.16 Mbit/s

95th percentile per-packet one-way delay: 44.320 ms

Loss rate: 0.98%

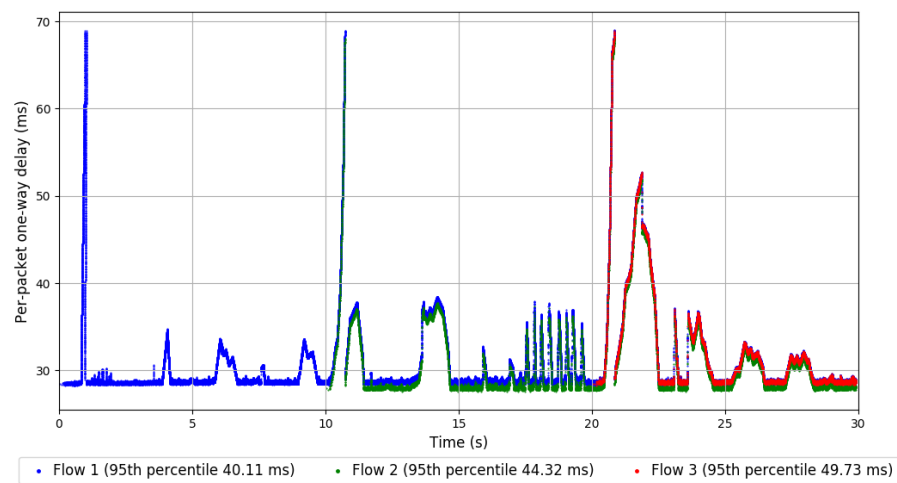
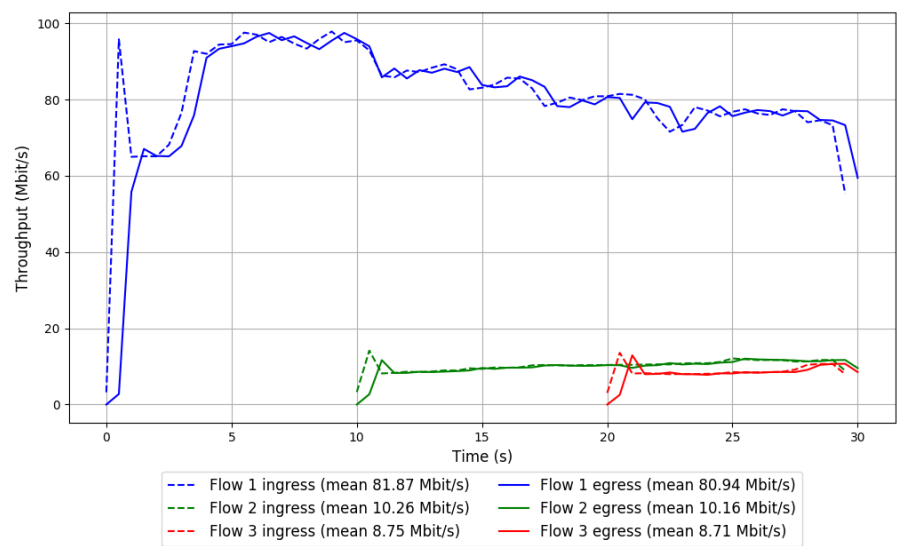
-- Flow 3:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 49.732 ms

Loss rate: 0.53%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-18 17:53:41

End at: 2018-06-18 17:54:11

Local clock offset: 0.338 ms

Remote clock offset: 2.104 ms

Below is generated by plot.py at 2018-06-18 20:05:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.60 Mbit/s

95th percentile per-packet one-way delay: 65.288 ms

Loss rate: 7.30%

-- Flow 1:

Average throughput: 87.04 Mbit/s

95th percentile per-packet one-way delay: 65.102 ms

Loss rate: 7.17%

-- Flow 2:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 66.992 ms

Loss rate: 9.41%

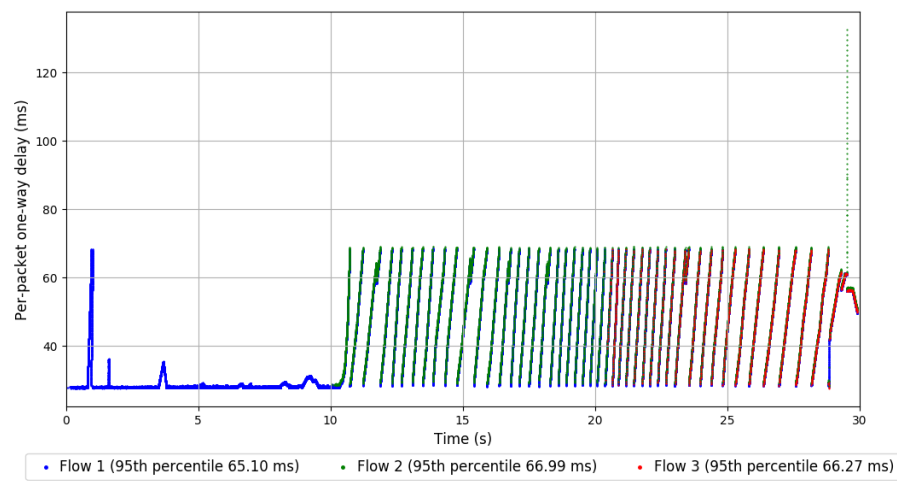
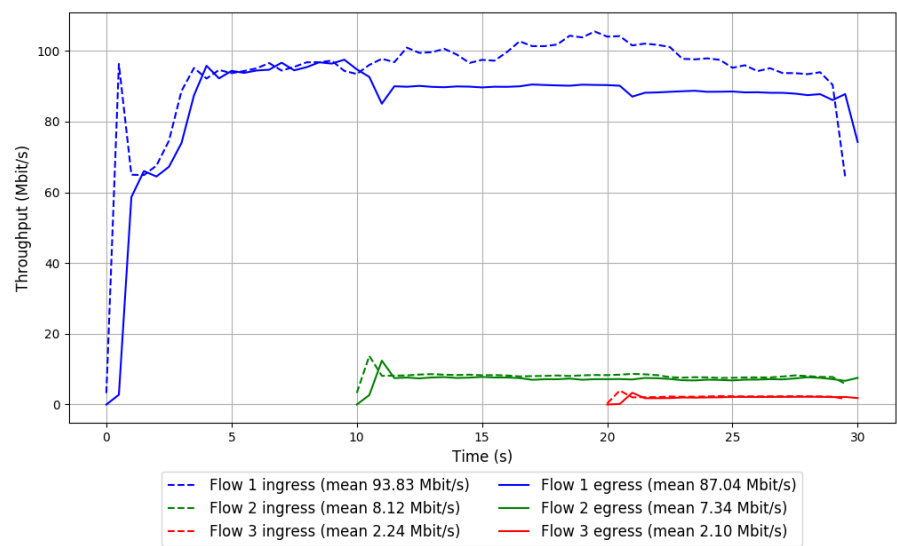
-- Flow 3:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 66.270 ms

Loss rate: 8.91%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-18 18:15:07

End at: 2018-06-18 18:15:37

Local clock offset: -2.203 ms

Remote clock offset: 3.014 ms

Below is generated by plot.py at 2018-06-18 20:06:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.84 Mbit/s

95th percentile per-packet one-way delay: 64.569 ms

Loss rate: 6.65%

-- Flow 1:

Average throughput: 77.02 Mbit/s

95th percentile per-packet one-way delay: 63.924 ms

Loss rate: 6.02%

-- Flow 2:

Average throughput: 16.34 Mbit/s

95th percentile per-packet one-way delay: 66.281 ms

Loss rate: 8.60%

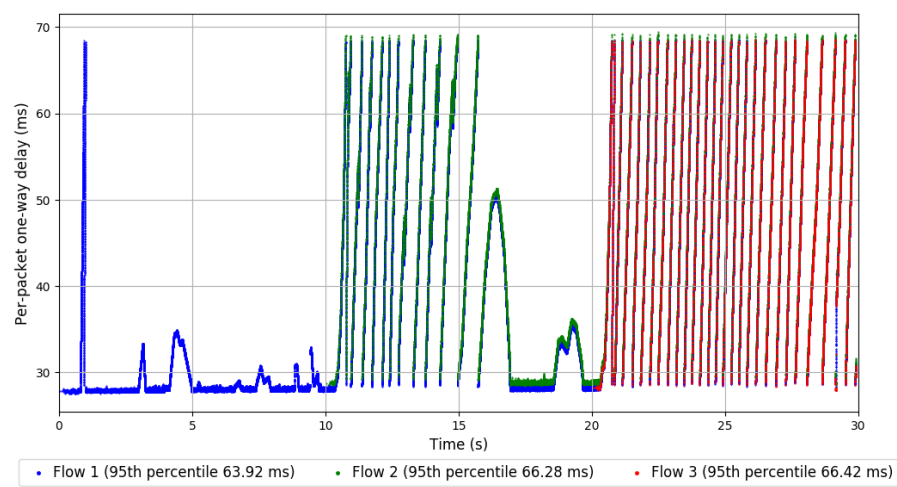
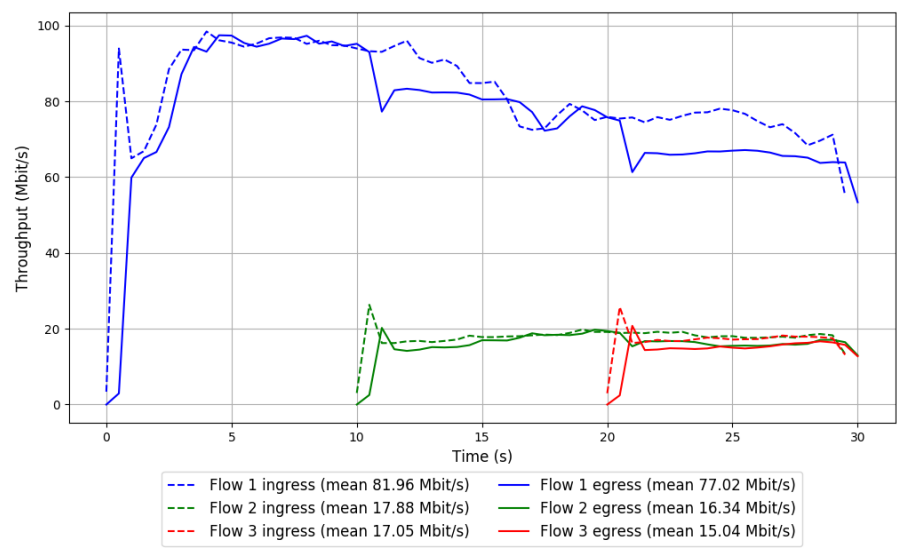
-- Flow 3:

Average throughput: 15.04 Mbit/s

95th percentile per-packet one-way delay: 66.423 ms

Loss rate: 11.78%

Run 6: Report of PCC-Allegro — Data Link

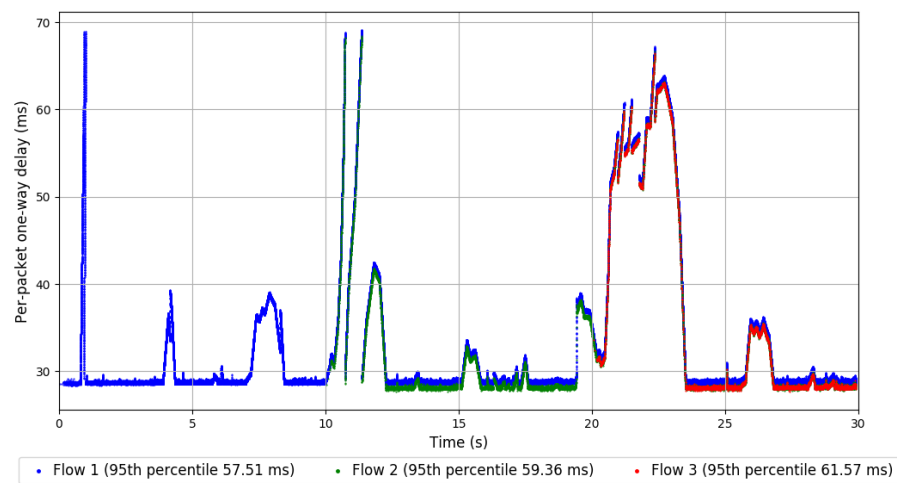
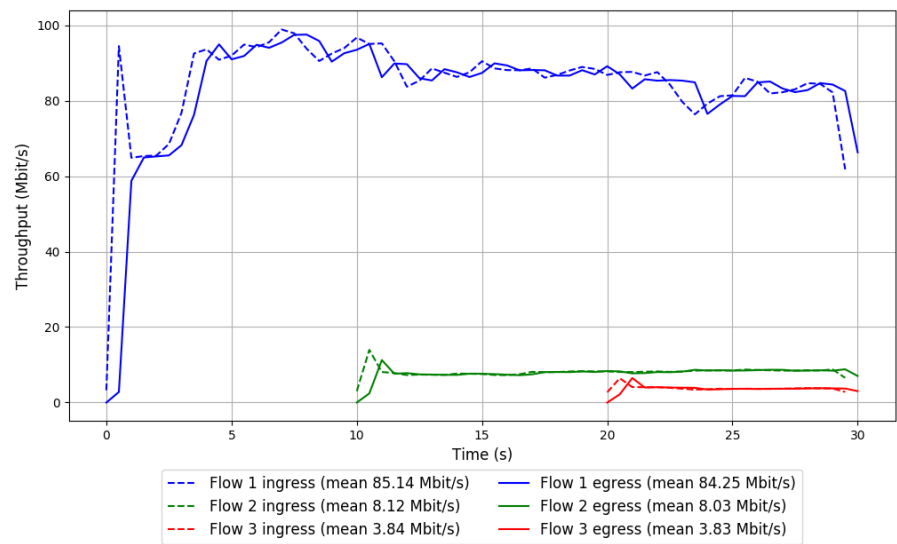


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-18 18:36:36
End at: 2018-06-18 18:37:06
Local clock offset: -3.667 ms
Remote clock offset: -2.467 ms

Below is generated by plot.py at 2018-06-18 20:06:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.85 Mbit/s
95th percentile per-packet one-way delay: 58.083 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 84.25 Mbit/s
95th percentile per-packet one-way delay: 57.505 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 8.03 Mbit/s
95th percentile per-packet one-way delay: 59.362 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 61.572 ms
Loss rate: 0.29%

Run 7: Report of PCC-Allegro — Data Link

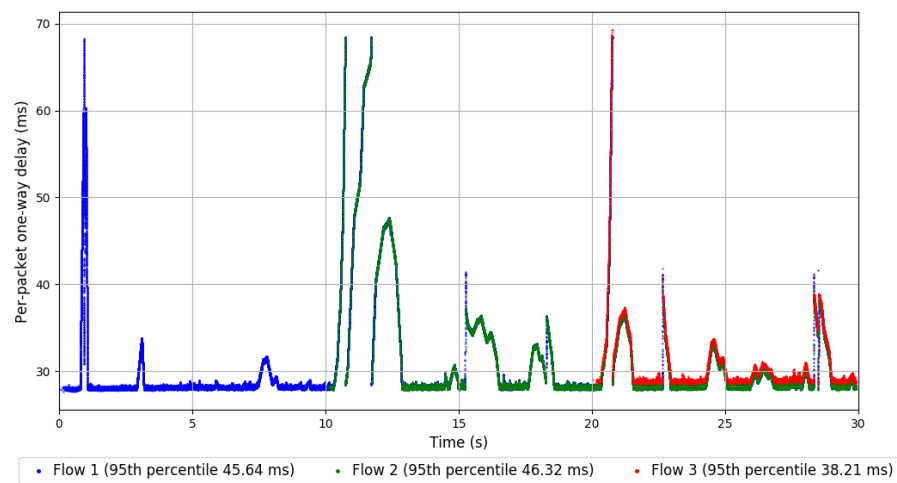
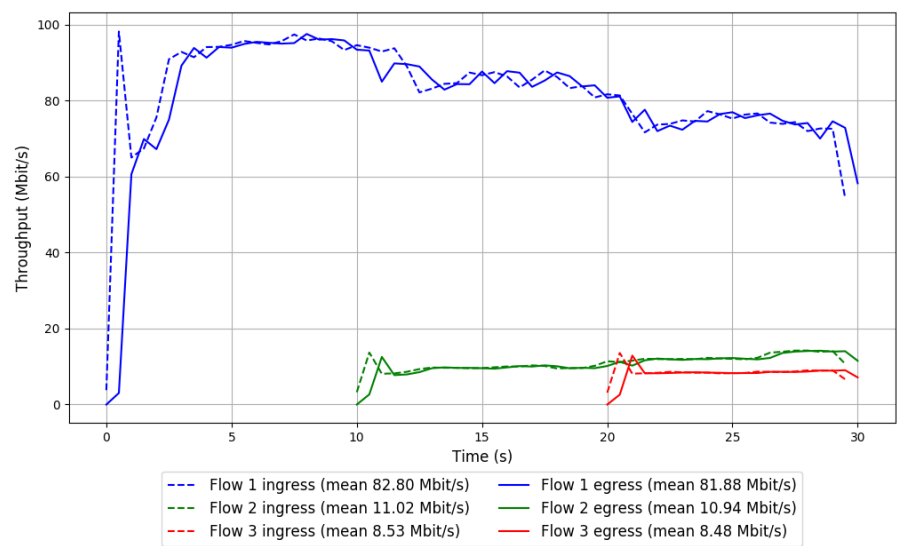


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-18 18:58:07
End at: 2018-06-18 18:58:37
Local clock offset: -4.311 ms
Remote clock offset: -3.337 ms

Below is generated by plot.py at 2018-06-18 20:06:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.96 Mbit/s
95th percentile per-packet one-way delay: 45.536 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 81.88 Mbit/s
95th percentile per-packet one-way delay: 45.641 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 10.94 Mbit/s
95th percentile per-packet one-way delay: 46.317 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 38.209 ms
Loss rate: 0.54%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-18 19:19:49

End at: 2018-06-18 19:20:19

Local clock offset: -2.479 ms

Remote clock offset: -4.04 ms

Below is generated by plot.py at 2018-06-18 20:06:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 62.570 ms

Loss rate: 4.61%

-- Flow 1:

Average throughput: 77.45 Mbit/s

95th percentile per-packet one-way delay: 62.609 ms

Loss rate: 4.68%

-- Flow 2:

Average throughput: 16.17 Mbit/s

95th percentile per-packet one-way delay: 63.744 ms

Loss rate: 5.43%

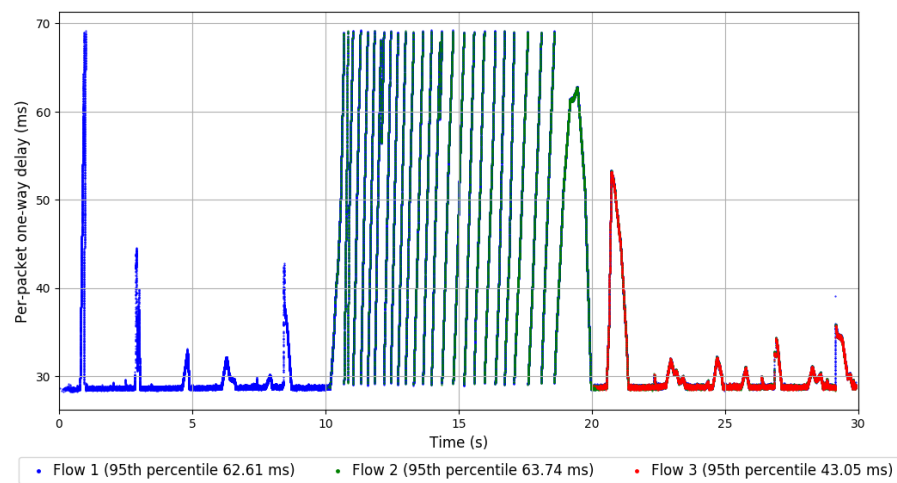
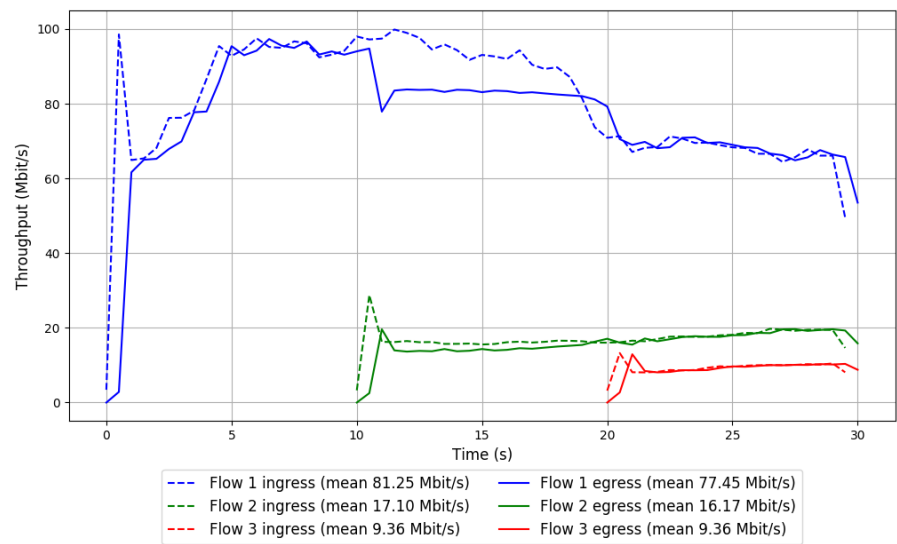
-- Flow 3:

Average throughput: 9.36 Mbit/s

95th percentile per-packet one-way delay: 43.054 ms

Loss rate: 0.00%

Run 9: Report of PCC-Allegro — Data Link

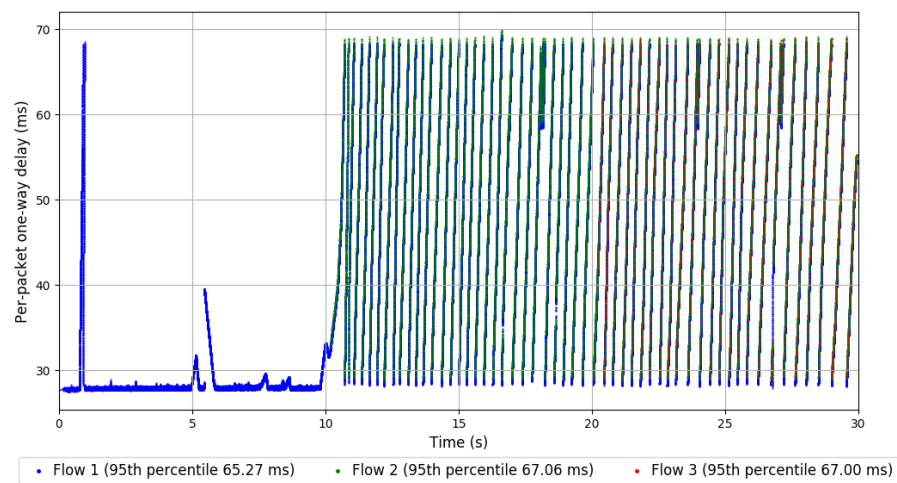
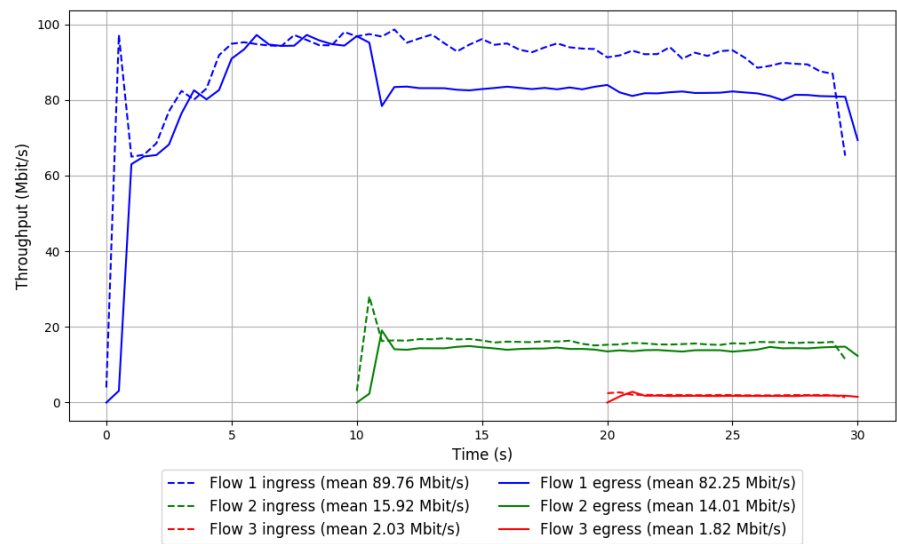


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-18 19:41:17
End at: 2018-06-18 19:41:47
Local clock offset: -2.089 ms
Remote clock offset: -3.054 ms

Below is generated by plot.py at 2018-06-18 20:06:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.17 Mbit/s
95th percentile per-packet one-way delay: 65.554 ms
Loss rate: 8.67%
-- Flow 1:
Average throughput: 82.25 Mbit/s
95th percentile per-packet one-way delay: 65.274 ms
Loss rate: 8.28%
-- Flow 2:
Average throughput: 14.01 Mbit/s
95th percentile per-packet one-way delay: 67.055 ms
Loss rate: 11.91%
-- Flow 3:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 67.001 ms
Loss rate: 10.09%

Run 10: Report of PCC-Allegro — Data Link

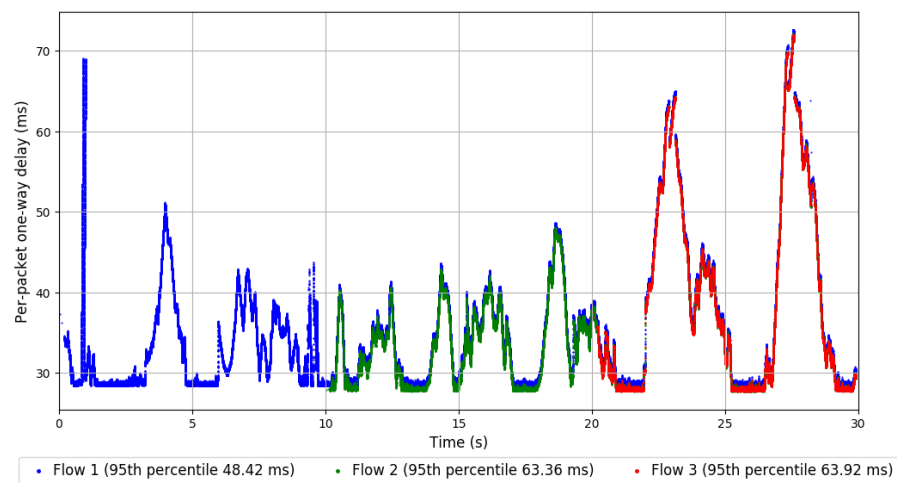
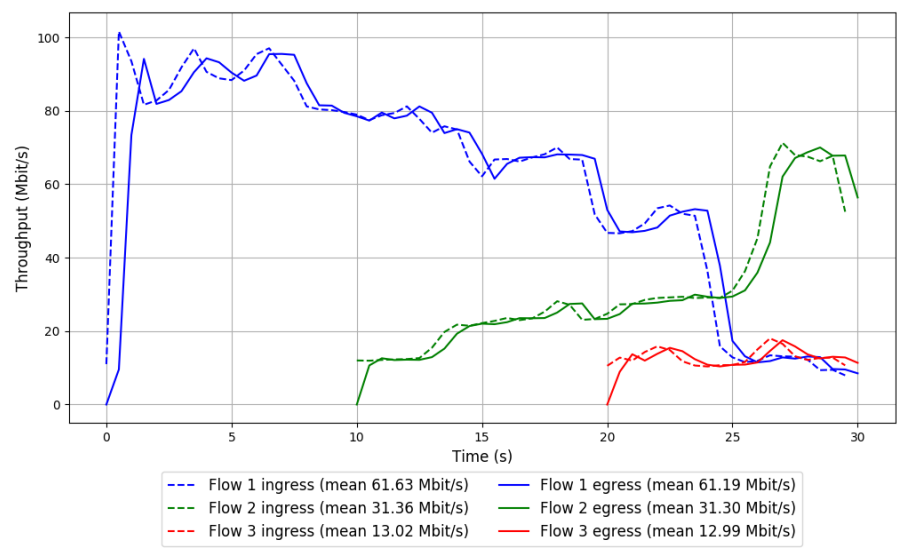


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-18 16:21:24
End at: 2018-06-18 16:21:54
Local clock offset: -2.806 ms
Remote clock offset: -2.281 ms

# Below is generated by plot.py at 2018-06-18 20:07:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.32 Mbit/s
95th percentile per-packet one-way delay: 56.880 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 61.19 Mbit/s
95th percentile per-packet one-way delay: 48.417 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 31.30 Mbit/s
95th percentile per-packet one-way delay: 63.362 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 12.99 Mbit/s
95th percentile per-packet one-way delay: 63.920 ms
Loss rate: 0.26%
```

Run 1: Report of PCC-Expr — Data Link

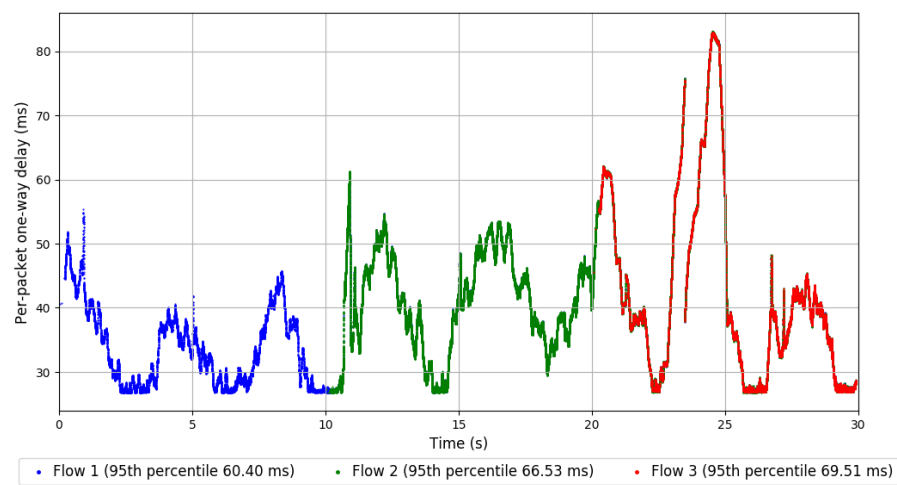
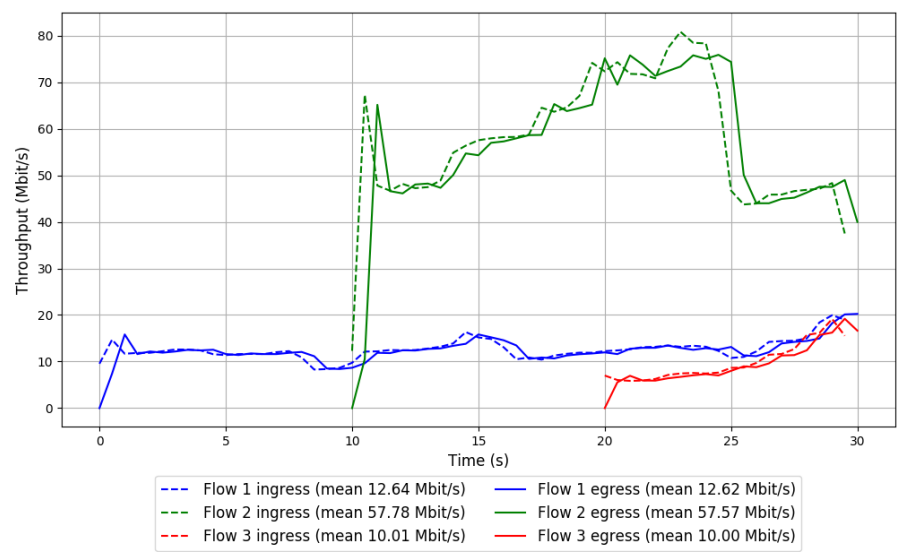


Run 2: Statistics of PCC-Expr

Start at: 2018-06-18 16:42:43
End at: 2018-06-18 16:43:13
Local clock offset: -0.545 ms
Remote clock offset: -3.611 ms

Below is generated by plot.py at 2018-06-18 20:07:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.23 Mbit/s
95th percentile per-packet one-way delay: 65.701 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 60.401 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 57.57 Mbit/s
95th percentile per-packet one-way delay: 66.533 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 10.00 Mbit/s
95th percentile per-packet one-way delay: 69.508 ms
Loss rate: 0.29%

Run 2: Report of PCC-Expr — Data Link

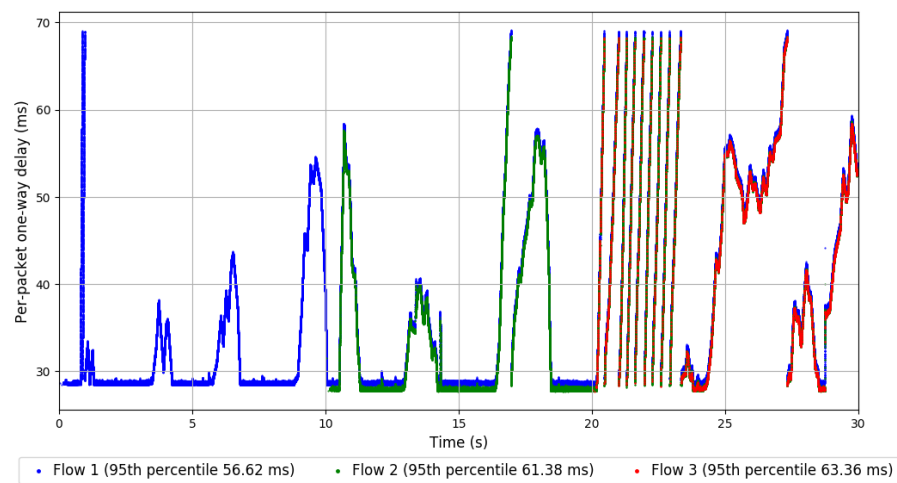
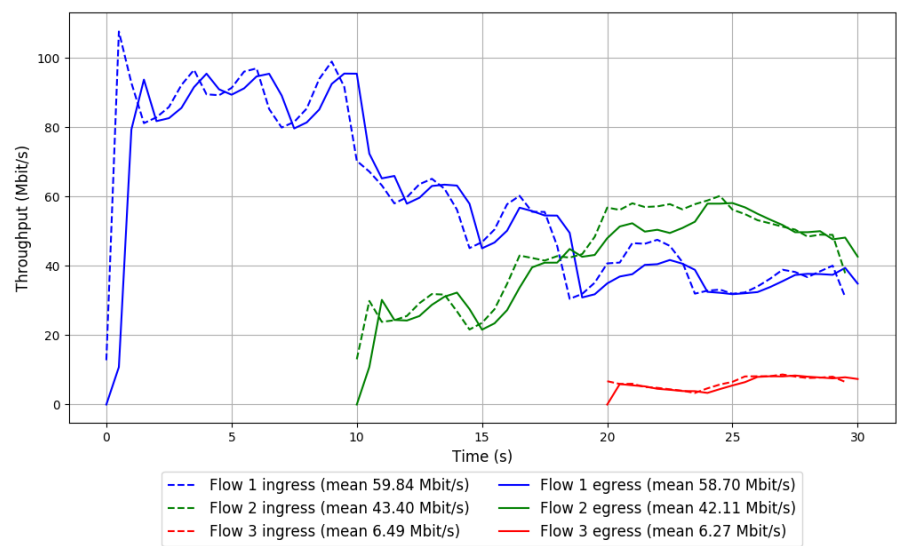


Run 3: Statistics of PCC-Expr

Start at: 2018-06-18 17:04:05
End at: 2018-06-18 17:04:35
Local clock offset: 1.109 ms
Remote clock offset: -2.406 ms

Below is generated by plot.py at 2018-06-18 20:08:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.81 Mbit/s
95th percentile per-packet one-way delay: 57.712 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 58.70 Mbit/s
95th percentile per-packet one-way delay: 56.615 ms
Loss rate: 1.81%
-- Flow 2:
Average throughput: 42.11 Mbit/s
95th percentile per-packet one-way delay: 61.376 ms
Loss rate: 2.86%
-- Flow 3:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 63.356 ms
Loss rate: 3.22%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-18 17:25:32

End at: 2018-06-18 17:26:02

Local clock offset: 0.101 ms

Remote clock offset: 0.6 ms

Below is generated by plot.py at 2018-06-18 20:08:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.15 Mbit/s

95th percentile per-packet one-way delay: 58.029 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 63.13 Mbit/s

95th percentile per-packet one-way delay: 56.316 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 35.09 Mbit/s

95th percentile per-packet one-way delay: 60.154 ms

Loss rate: 0.34%

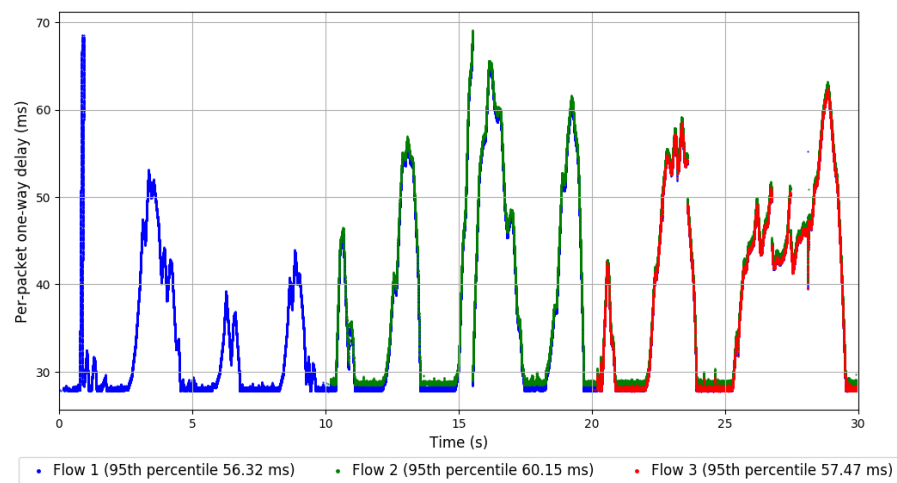
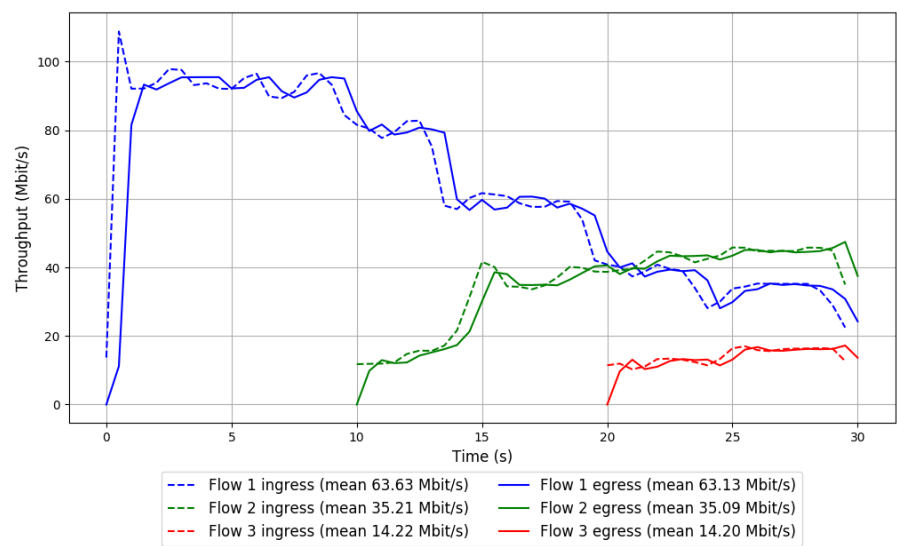
-- Flow 3:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 57.472 ms

Loss rate: 0.15%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-18 17:46:54

End at: 2018-06-18 17:47:24

Local clock offset: 0.304 ms

Remote clock offset: 1.739 ms

Below is generated by plot.py at 2018-06-18 20:08:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 55.810 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 60.40 Mbit/s

95th percentile per-packet one-way delay: 55.345 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 34.95 Mbit/s

95th percentile per-packet one-way delay: 55.442 ms

Loss rate: 0.29%

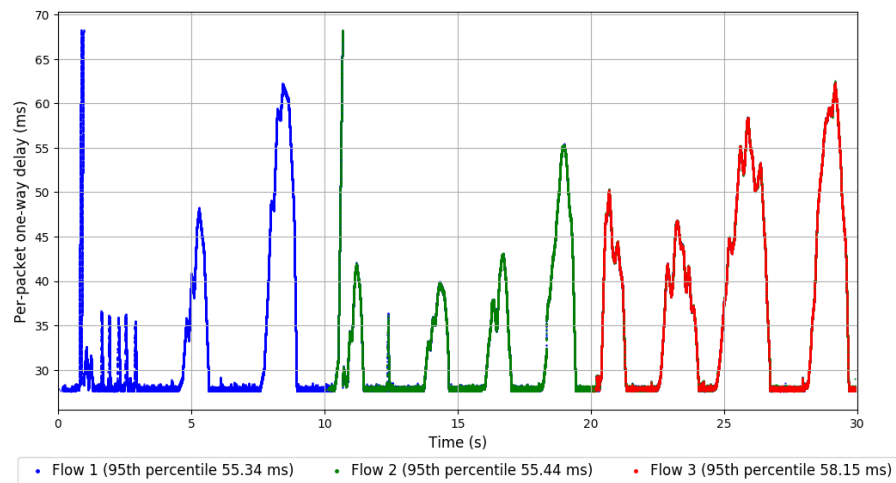
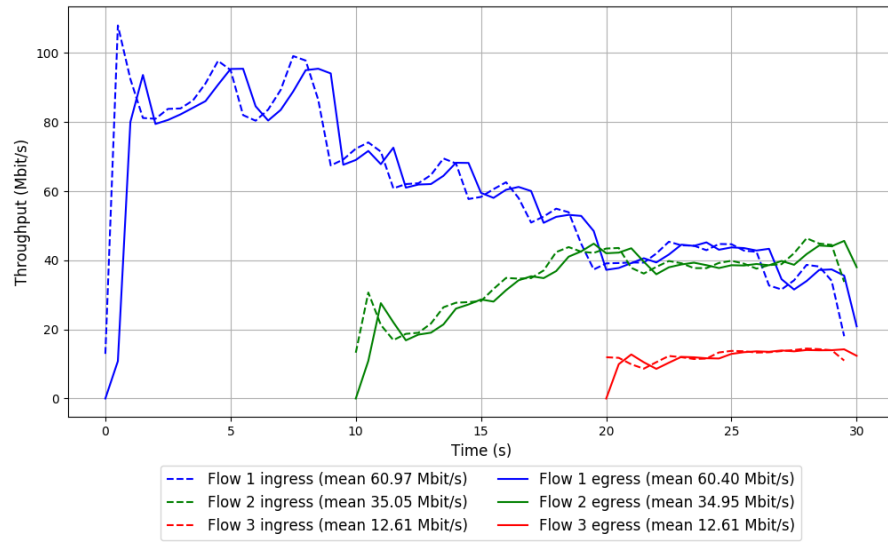
-- Flow 3:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 58.147 ms

Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-18 18:08:19

End at: 2018-06-18 18:08:49

Local clock offset: -0.943 ms

Remote clock offset: 2.713 ms

Below is generated by plot.py at 2018-06-18 20:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.60 Mbit/s

95th percentile per-packet one-way delay: 62.437 ms

Loss rate: 2.67%

-- Flow 1:

Average throughput: 68.38 Mbit/s

95th percentile per-packet one-way delay: 62.093 ms

Loss rate: 2.16%

-- Flow 2:

Average throughput: 23.84 Mbit/s

95th percentile per-packet one-way delay: 63.132 ms

Loss rate: 3.92%

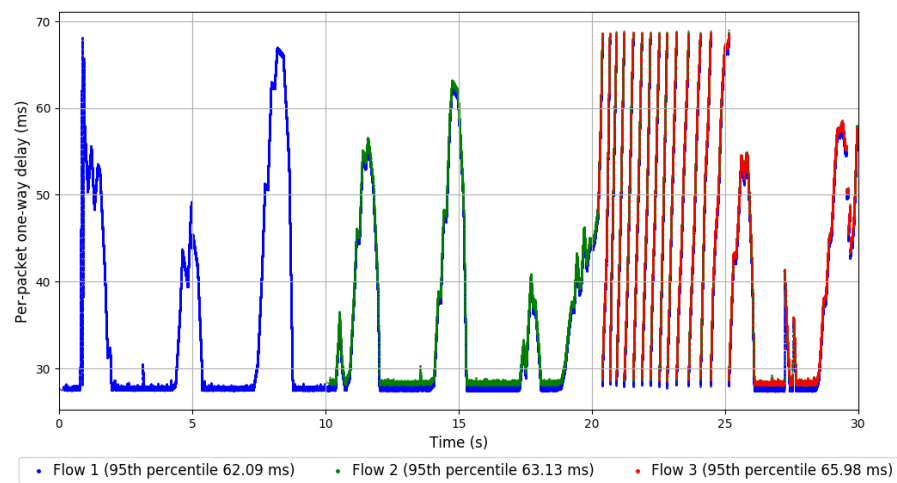
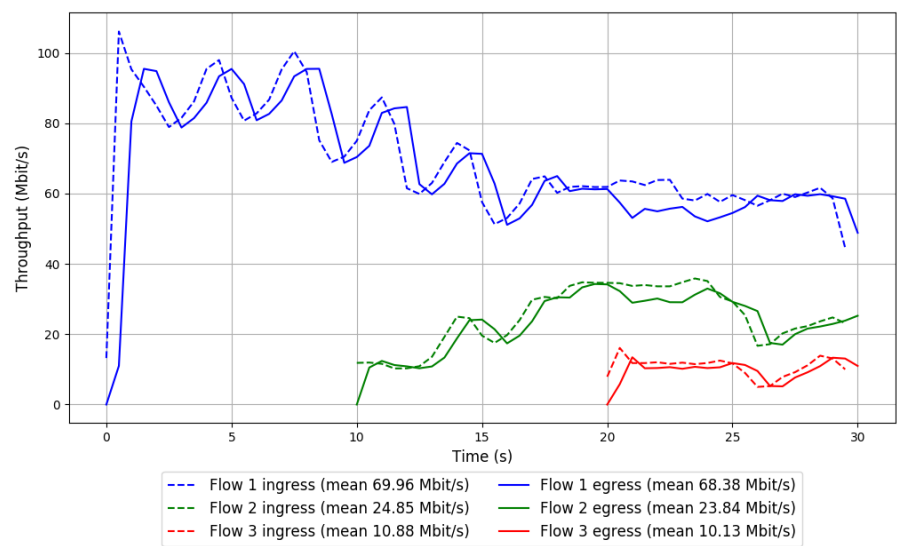
-- Flow 3:

Average throughput: 10.13 Mbit/s

95th percentile per-packet one-way delay: 65.976 ms

Loss rate: 6.75%

Run 6: Report of PCC-Expr — Data Link

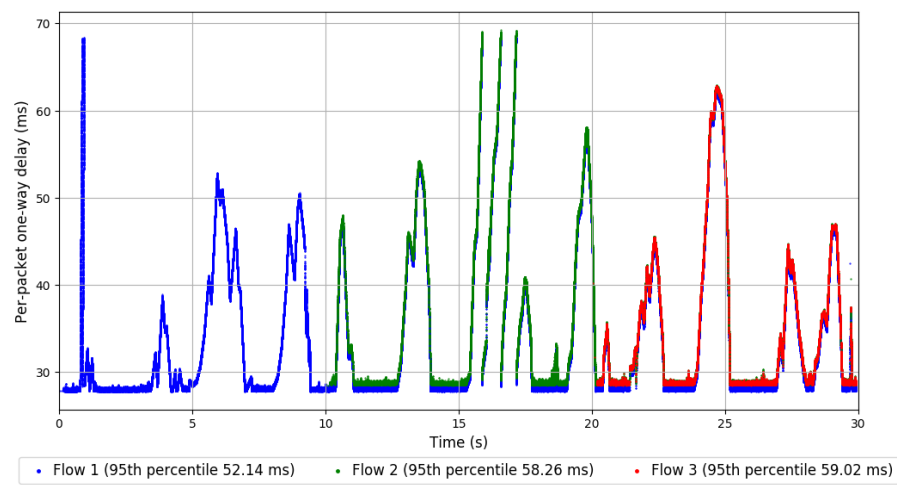
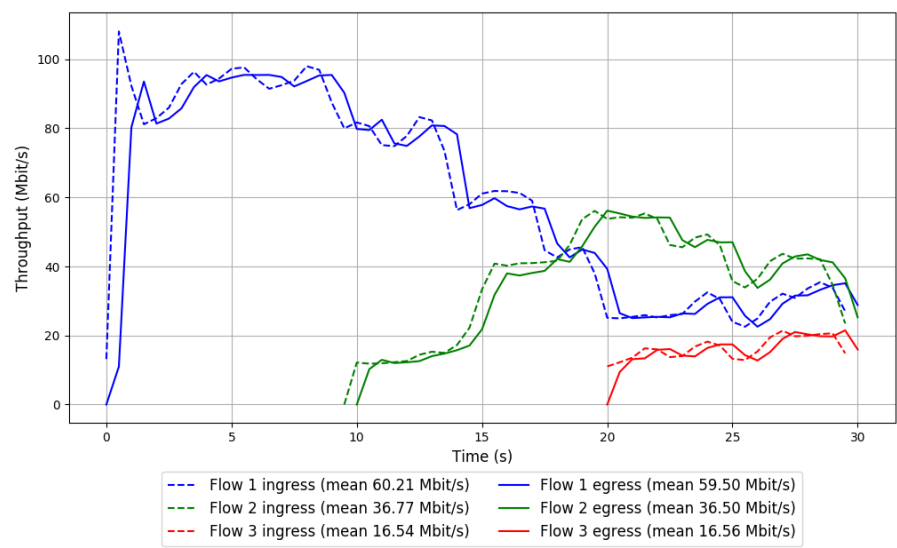


Run 7: Statistics of PCC-Expr

Start at: 2018-06-18 18:29:48
End at: 2018-06-18 18:30:18
Local clock offset: -3.479 ms
Remote clock offset: -1.876 ms

Below is generated by plot.py at 2018-06-18 20:08:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.26 Mbit/s
95th percentile per-packet one-way delay: 54.227 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 59.50 Mbit/s
95th percentile per-packet one-way delay: 52.137 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 36.50 Mbit/s
95th percentile per-packet one-way delay: 58.255 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 16.56 Mbit/s
95th percentile per-packet one-way delay: 59.024 ms
Loss rate: 0.02%

Run 7: Report of PCC-Expr — Data Link

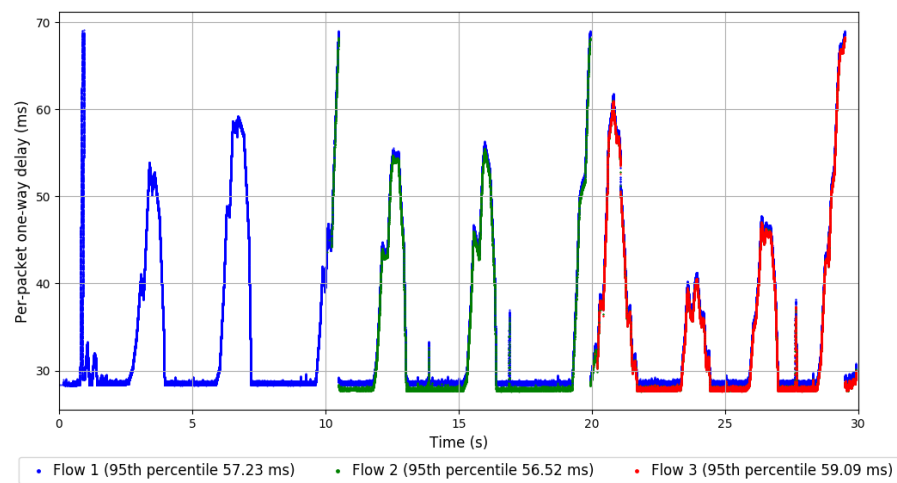
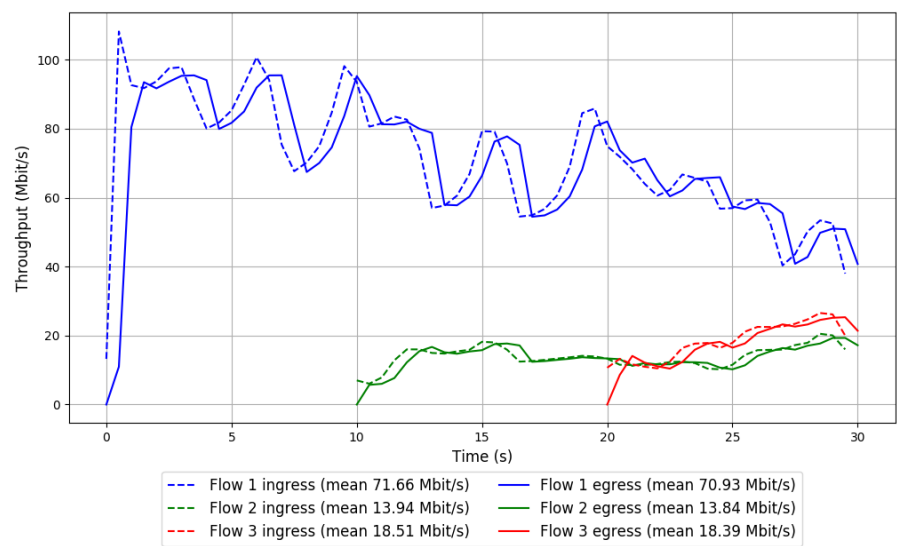


Run 8: Statistics of PCC-Expr

Start at: 2018-06-18 18:51:18
End at: 2018-06-18 18:51:48
Local clock offset: -4.071 ms
Remote clock offset: -3.305 ms

Below is generated by plot.py at 2018-06-18 20:08:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.20 Mbit/s
95th percentile per-packet one-way delay: 57.255 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 70.93 Mbit/s
95th percentile per-packet one-way delay: 57.235 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 13.84 Mbit/s
95th percentile per-packet one-way delay: 56.524 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 18.39 Mbit/s
95th percentile per-packet one-way delay: 59.089 ms
Loss rate: 0.69%

Run 8: Report of PCC-Expr — Data Link

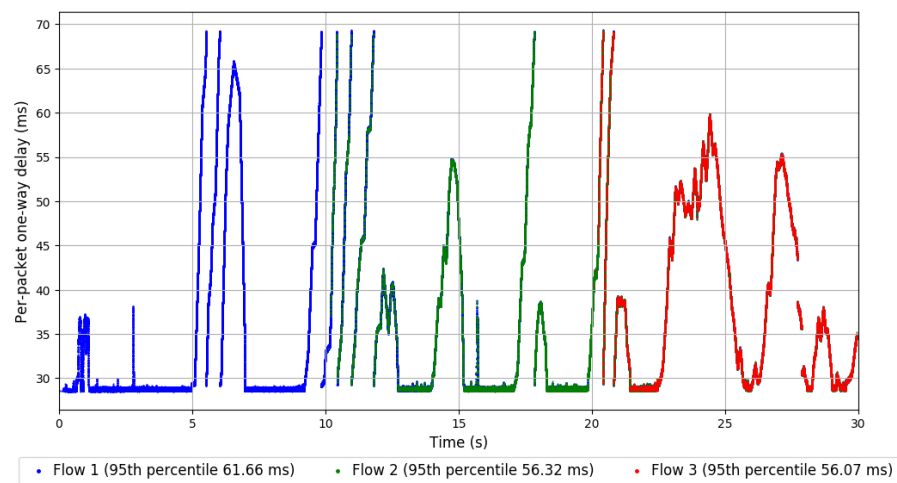
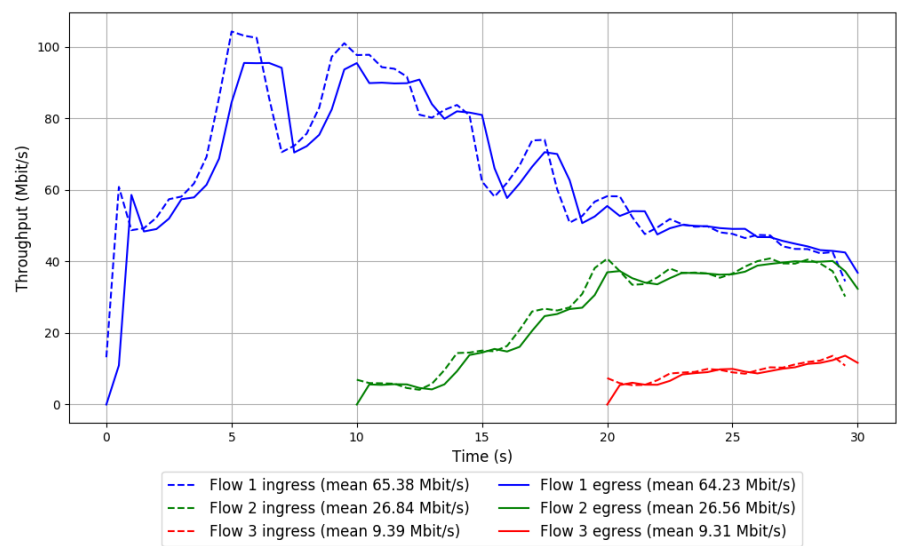


Run 9: Statistics of PCC-Expr

Start at: 2018-06-18 19:12:57
End at: 2018-06-18 19:13:27
Local clock offset: -3.013 ms
Remote clock offset: -3.816 ms

Below is generated by plot.py at 2018-06-18 20:09:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.97 Mbit/s
95th percentile per-packet one-way delay: 60.241 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 64.23 Mbit/s
95th percentile per-packet one-way delay: 61.657 ms
Loss rate: 1.73%
-- Flow 2:
Average throughput: 26.56 Mbit/s
95th percentile per-packet one-way delay: 56.323 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 56.066 ms
Loss rate: 0.86%

Run 9: Report of PCC-Expr — Data Link

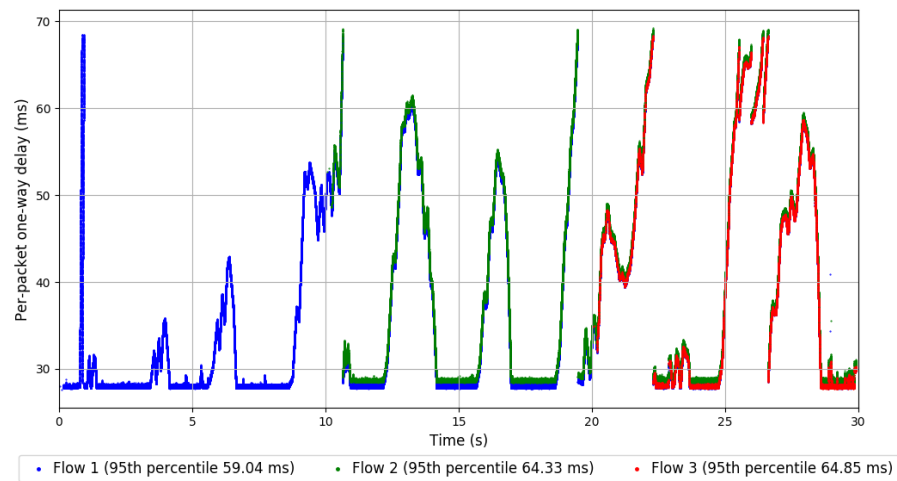
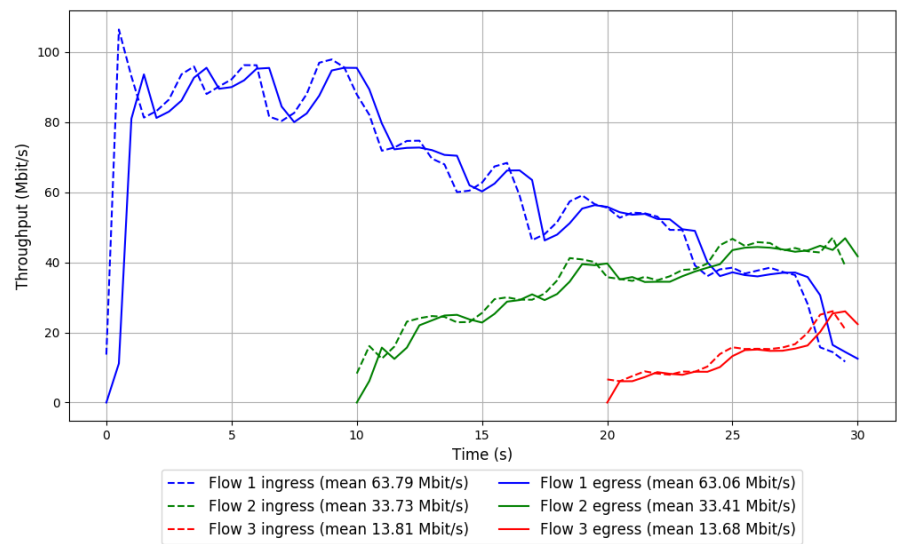


Run 10: Statistics of PCC-Expr

Start at: 2018-06-18 19:34:30
End at: 2018-06-18 19:35:00
Local clock offset: -1.973 ms
Remote clock offset: -3.268 ms

Below is generated by plot.py at 2018-06-18 20:10:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.78 Mbit/s
95th percentile per-packet one-way delay: 61.110 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 63.06 Mbit/s
95th percentile per-packet one-way delay: 59.041 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 33.41 Mbit/s
95th percentile per-packet one-way delay: 64.335 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 13.68 Mbit/s
95th percentile per-packet one-way delay: 64.850 ms
Loss rate: 0.97%

Run 10: Report of PCC-Expr — Data Link

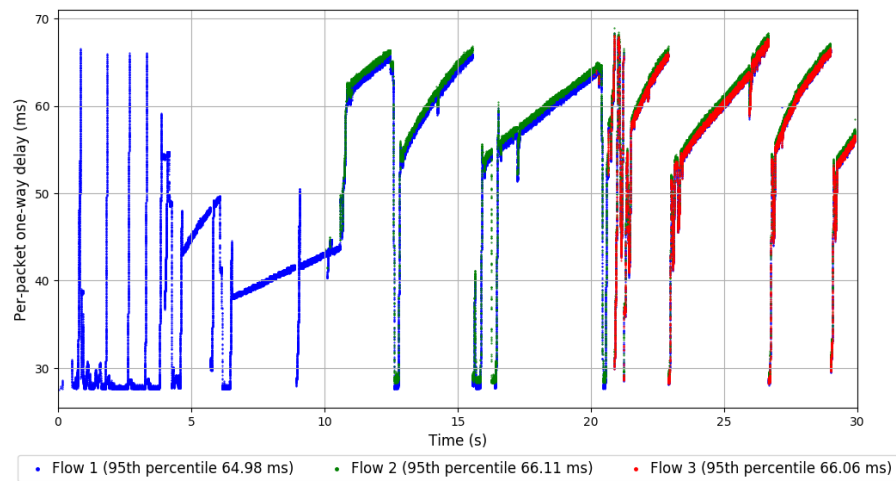
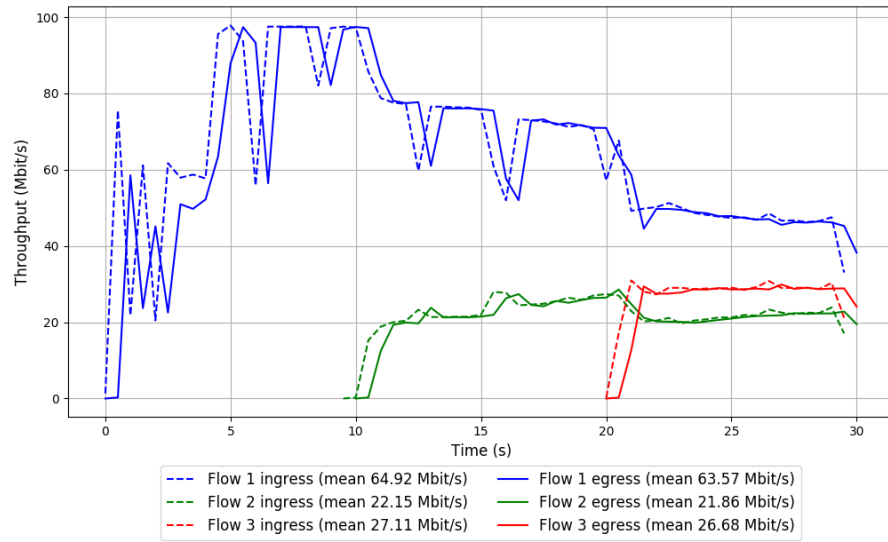


Run 1: Statistics of QUIC Cubic

Start at: 2018-06-18 16:18:42
End at: 2018-06-18 16:19:12
Local clock offset: -2.781 ms
Remote clock offset: -2.364 ms

Below is generated by plot.py at 2018-06-18 20:10:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.87 Mbit/s
95th percentile per-packet one-way delay: 65.366 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 63.57 Mbit/s
95th percentile per-packet one-way delay: 64.981 ms
Loss rate: 1.99%
-- Flow 2:
Average throughput: 21.86 Mbit/s
95th percentile per-packet one-way delay: 66.113 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 26.68 Mbit/s
95th percentile per-packet one-way delay: 66.057 ms
Loss rate: 1.66%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-18 16:40:01

End at: 2018-06-18 16:40:31

Local clock offset: -1.126 ms

Remote clock offset: -2.7 ms

Below is generated by plot.py at 2018-06-18 20:10:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.03 Mbit/s

95th percentile per-packet one-way delay: 68.057 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 54.27 Mbit/s

95th percentile per-packet one-way delay: 66.369 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 27.04 Mbit/s

95th percentile per-packet one-way delay: 68.520 ms

Loss rate: 0.94%

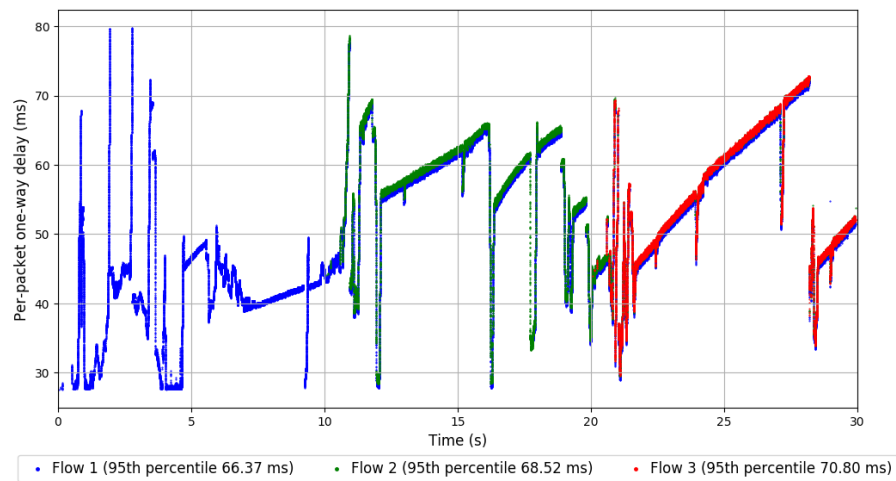
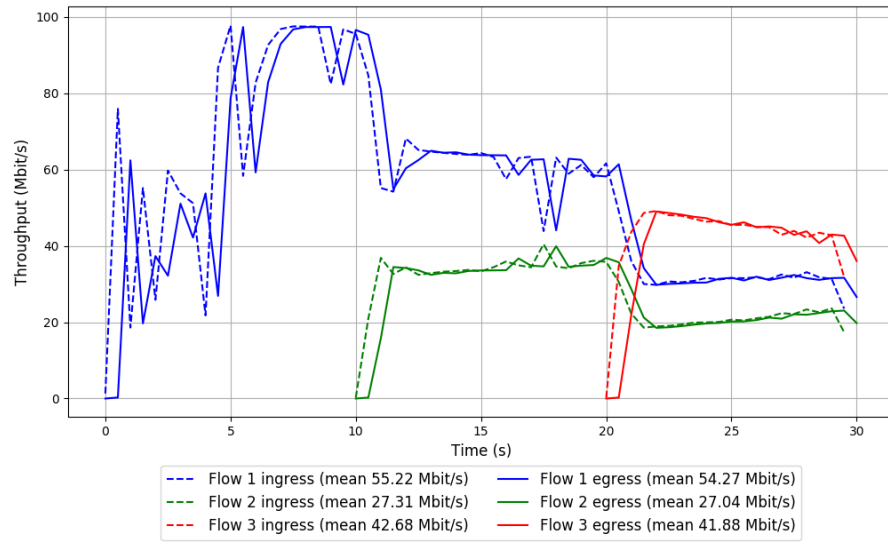
-- Flow 3:

Average throughput: 41.88 Mbit/s

95th percentile per-packet one-way delay: 70.799 ms

Loss rate: 1.80%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-18 17:01:24

End at: 2018-06-18 17:01:54

Local clock offset: 0.943 ms

Remote clock offset: -2.55 ms

Below is generated by plot.py at 2018-06-18 20:10:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.37 Mbit/s

95th percentile per-packet one-way delay: 64.818 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 69.42 Mbit/s

95th percentile per-packet one-way delay: 64.631 ms

Loss rate: 1.90%

-- Flow 2:

Average throughput: 20.49 Mbit/s

95th percentile per-packet one-way delay: 65.544 ms

Loss rate: 0.88%

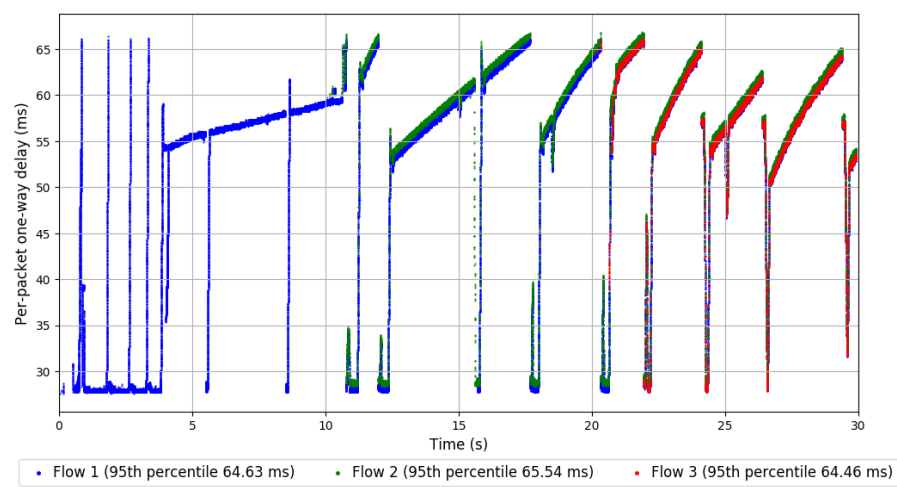
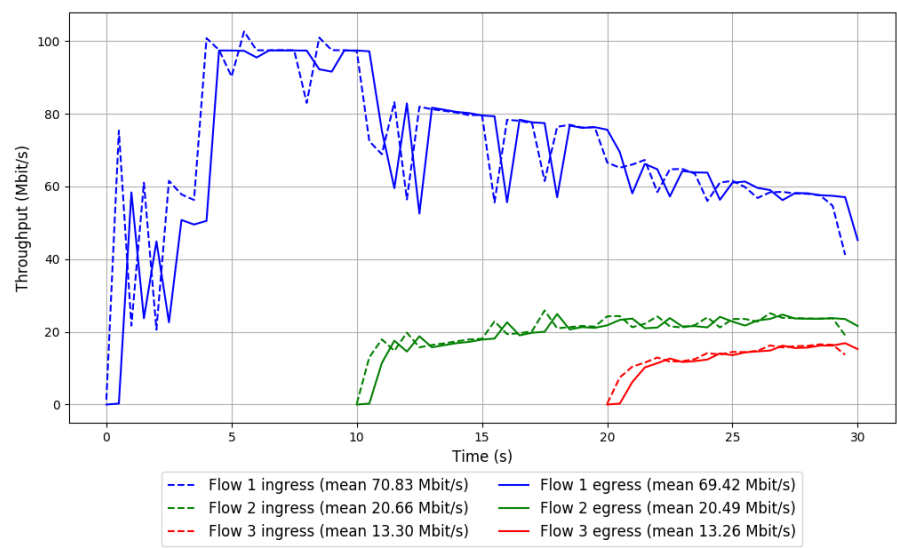
-- Flow 3:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 64.461 ms

Loss rate: 0.42%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-18 17:22:51

End at: 2018-06-18 17:23:21

Local clock offset: 0.259 ms

Remote clock offset: 0.324 ms

Below is generated by plot.py at 2018-06-18 20:10:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.64 Mbit/s

95th percentile per-packet one-way delay: 65.206 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 61.20 Mbit/s

95th percentile per-packet one-way delay: 65.375 ms

Loss rate: 2.07%

-- Flow 2:

Average throughput: 34.96 Mbit/s

95th percentile per-packet one-way delay: 65.044 ms

Loss rate: 1.17%

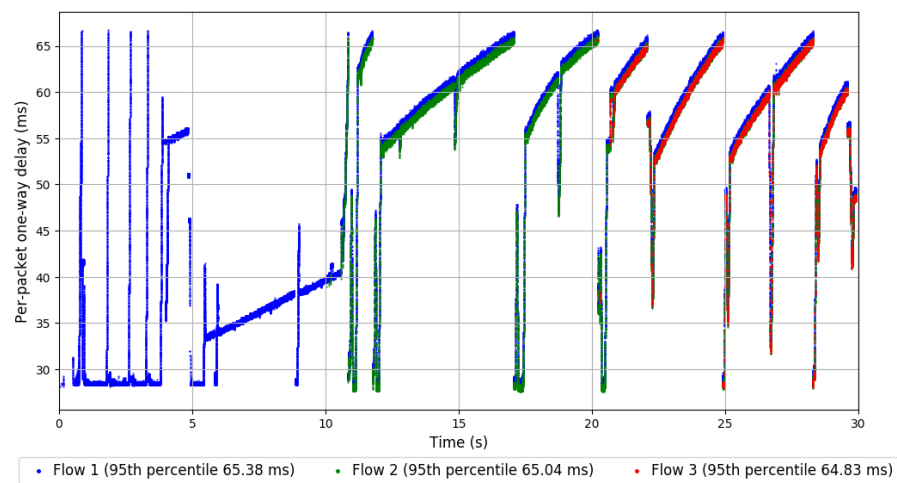
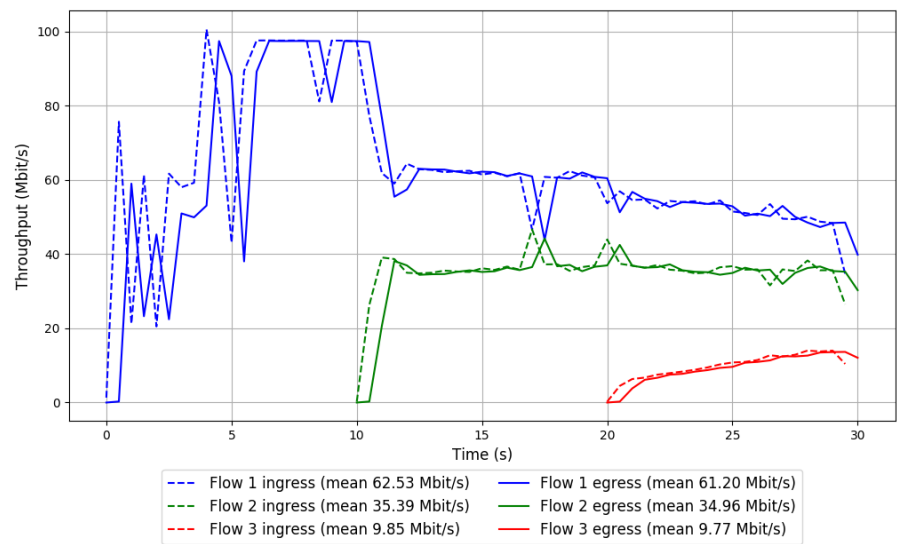
-- Flow 3:

Average throughput: 9.77 Mbit/s

95th percentile per-packet one-way delay: 64.831 ms

Loss rate: 1.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-18 17:44:13

End at: 2018-06-18 17:44:43

Local clock offset: 0.282 ms

Remote clock offset: 1.689 ms

Below is generated by plot.py at 2018-06-18 20:10:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.45 Mbit/s

95th percentile per-packet one-way delay: 64.788 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 69.38 Mbit/s

95th percentile per-packet one-way delay: 64.469 ms

Loss rate: 1.84%

-- Flow 2:

Average throughput: 21.67 Mbit/s

95th percentile per-packet one-way delay: 65.565 ms

Loss rate: 0.77%

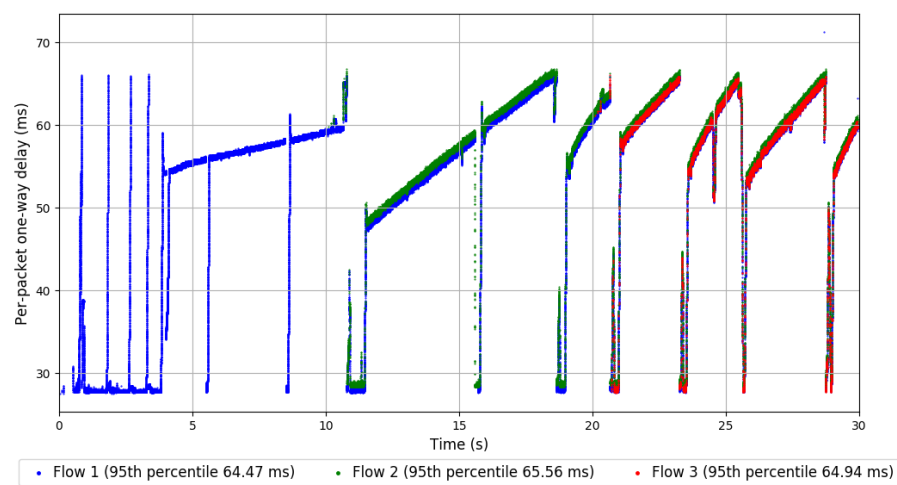
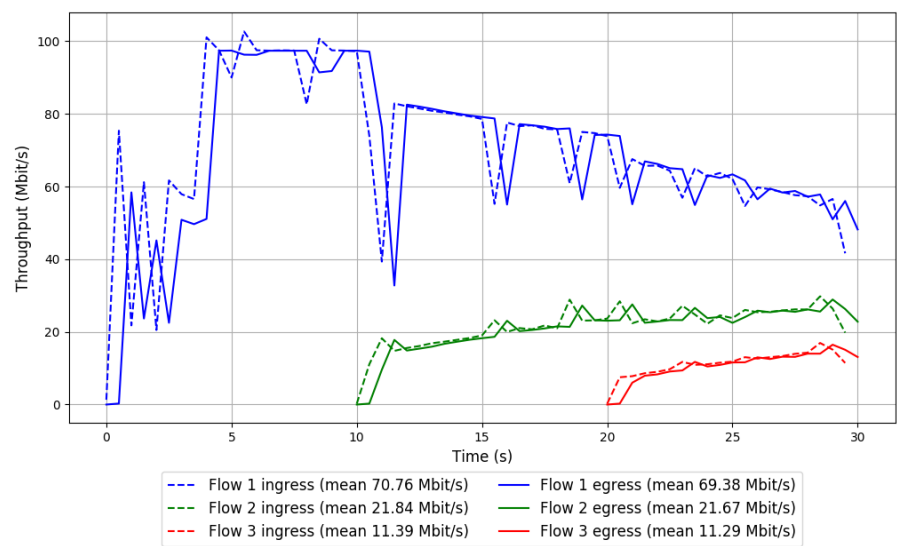
-- Flow 3:

Average throughput: 11.29 Mbit/s

95th percentile per-packet one-way delay: 64.938 ms

Loss rate: 0.91%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-18 18:05:38

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

Local clock offset: -0.189 ms

Remote clock offset: 2.553 ms

Below is generated by plot.py at 2018-06-18 20:10:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.49 Mbit/s

95th percentile per-packet one-way delay: 63.157 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 68.06 Mbit/s

95th percentile per-packet one-way delay: 62.741 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 19.68 Mbit/s

95th percentile per-packet one-way delay: 63.747 ms

Loss rate: 0.73%

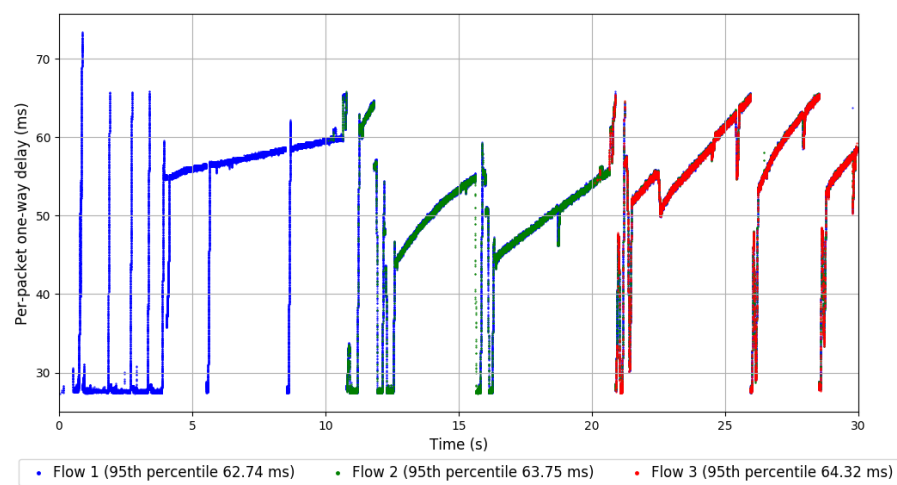
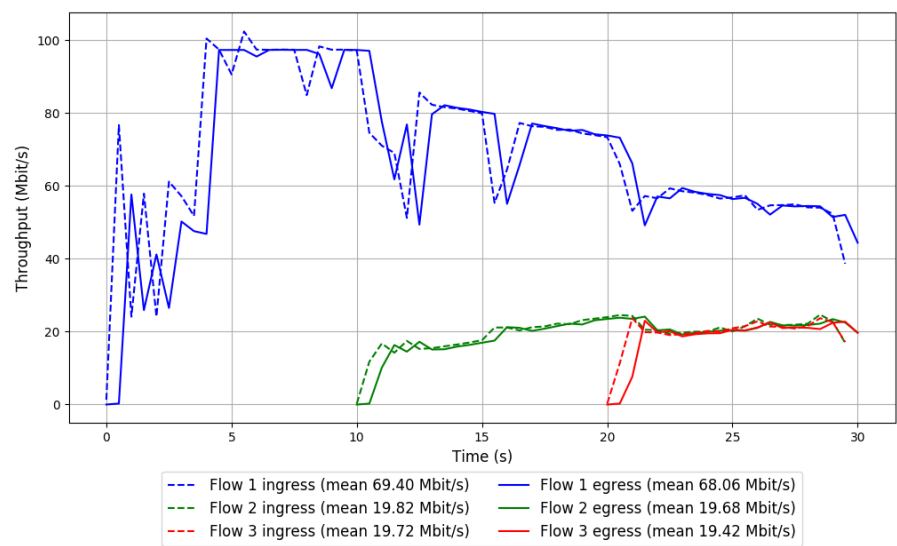
-- Flow 3:

Average throughput: 19.42 Mbit/s

95th percentile per-packet one-way delay: 64.320 ms

Loss rate: 1.50%

Run 6: Report of QUIC Cubic — Data Link

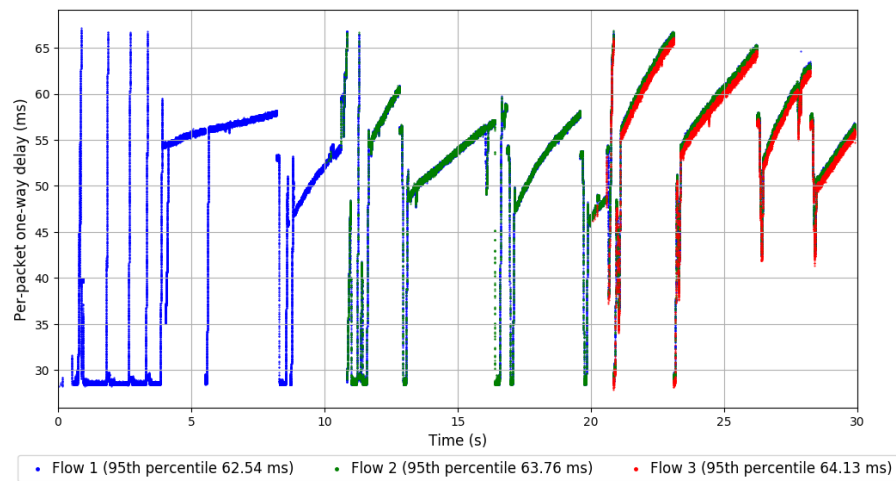
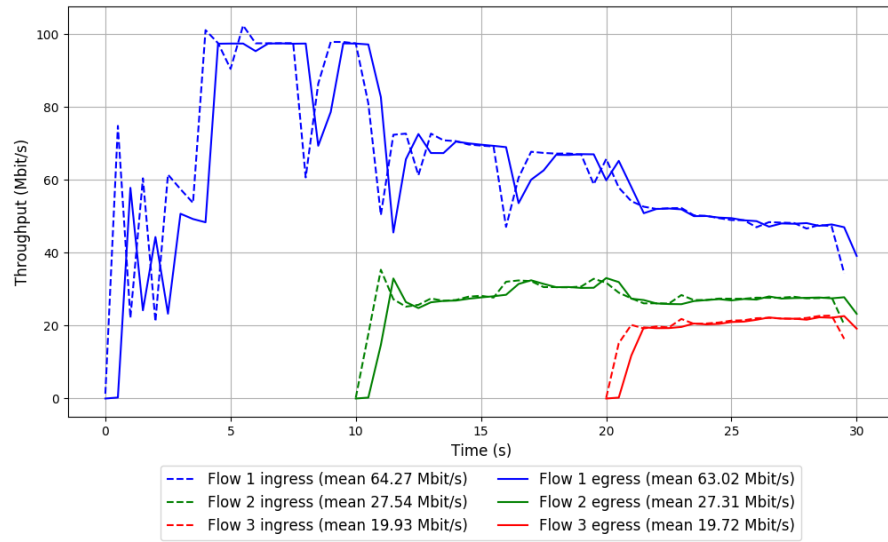


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-18 18:27:06
End at: 2018-06-18 18:27:36
Local clock offset: -3.266 ms
Remote clock offset: -1.427 ms

Below is generated by plot.py at 2018-06-18 20:10:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.66 Mbit/s
95th percentile per-packet one-way delay: 63.069 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 63.02 Mbit/s
95th percentile per-packet one-way delay: 62.536 ms
Loss rate: 1.85%
-- Flow 2:
Average throughput: 27.31 Mbit/s
95th percentile per-packet one-way delay: 63.763 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 19.72 Mbit/s
95th percentile per-packet one-way delay: 64.134 ms
Loss rate: 0.97%

Run 7: Report of QUIC Cubic — Data Link

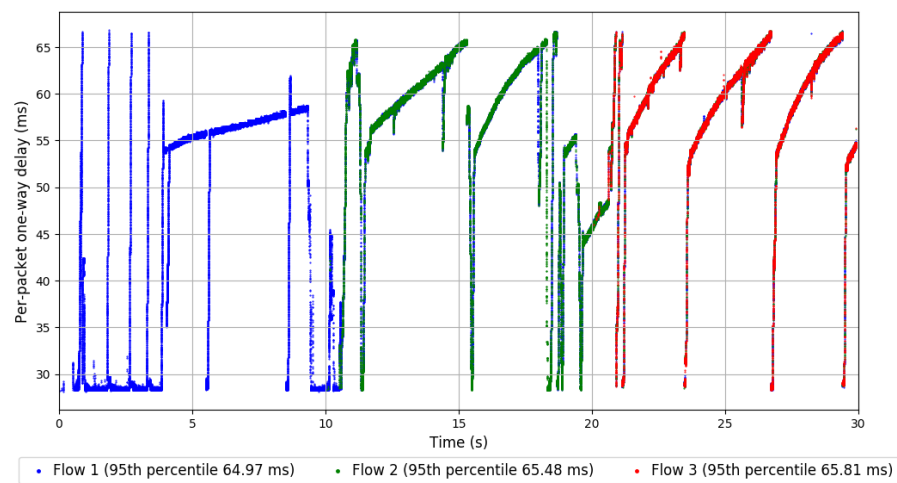
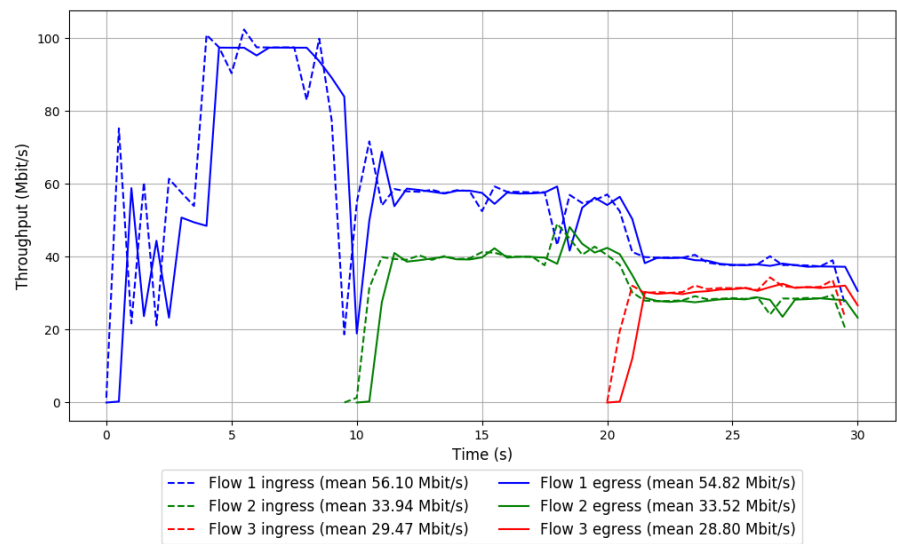


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-18 18:48:36
End at: 2018-06-18 18:49:06
Local clock offset: -4.005 ms
Remote clock offset: -3.235 ms

Below is generated by plot.py at 2018-06-18 20:10:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.61 Mbit/s
95th percentile per-packet one-way delay: 65.259 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 54.82 Mbit/s
95th percentile per-packet one-way delay: 64.972 ms
Loss rate: 2.19%
-- Flow 2:
Average throughput: 33.52 Mbit/s
95th percentile per-packet one-way delay: 65.478 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 28.80 Mbit/s
95th percentile per-packet one-way delay: 65.805 ms
Loss rate: 2.16%

Run 8: Report of QUIC Cubic — Data Link

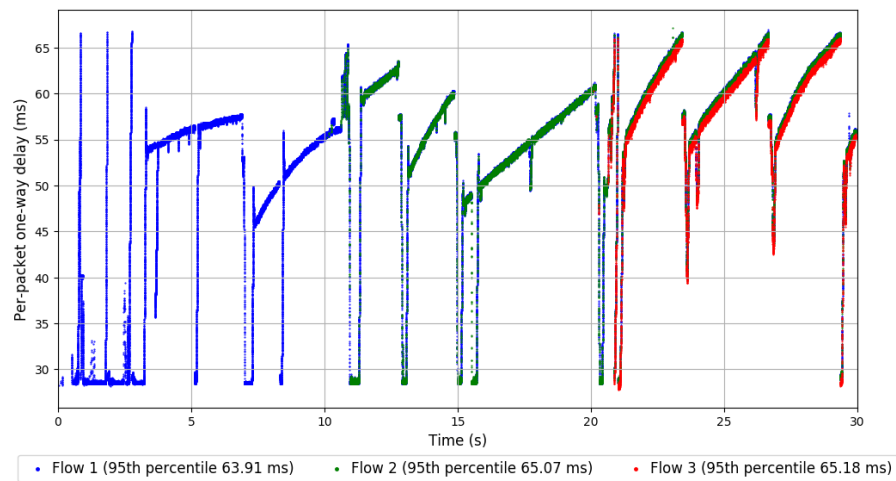
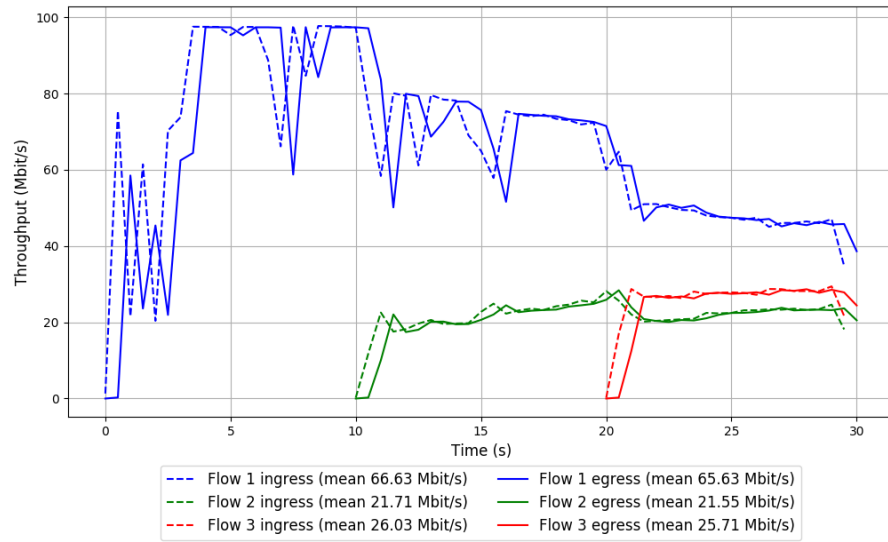


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-18 19:10:06
End at: 2018-06-18 19:10:36
Local clock offset: -3.283 ms
Remote clock offset: -3.817 ms

Below is generated by plot.py at 2018-06-18 20:10:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.38 Mbit/s
95th percentile per-packet one-way delay: 64.403 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 65.63 Mbit/s
95th percentile per-packet one-way delay: 63.909 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 21.55 Mbit/s
95th percentile per-packet one-way delay: 65.074 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 25.71 Mbit/s
95th percentile per-packet one-way delay: 65.182 ms
Loss rate: 1.27%

Run 9: Report of QUIC Cubic — Data Link

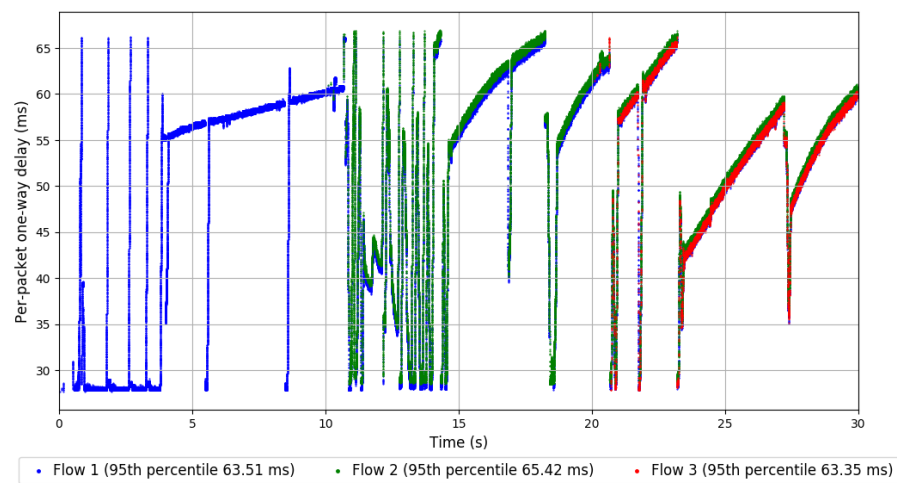
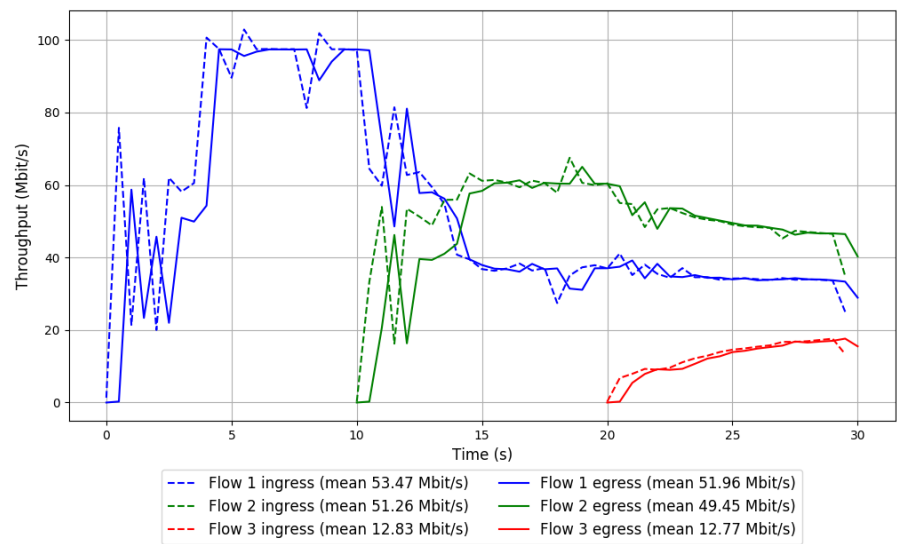


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-18 19:31:49
End at: 2018-06-18 19:32:19
Local clock offset: -2.032 ms
Remote clock offset: -3.312 ms

Below is generated by plot.py at 2018-06-18 20:10:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.95 Mbit/s
95th percentile per-packet one-way delay: 64.668 ms
Loss rate: 2.92%
-- Flow 1:
Average throughput: 51.96 Mbit/s
95th percentile per-packet one-way delay: 63.510 ms
Loss rate: 2.72%
-- Flow 2:
Average throughput: 49.45 Mbit/s
95th percentile per-packet one-way delay: 65.425 ms
Loss rate: 3.53%
-- Flow 3:
Average throughput: 12.77 Mbit/s
95th percentile per-packet one-way delay: 63.350 ms
Loss rate: 0.51%

Run 10: Report of QUIC Cubic — Data Link

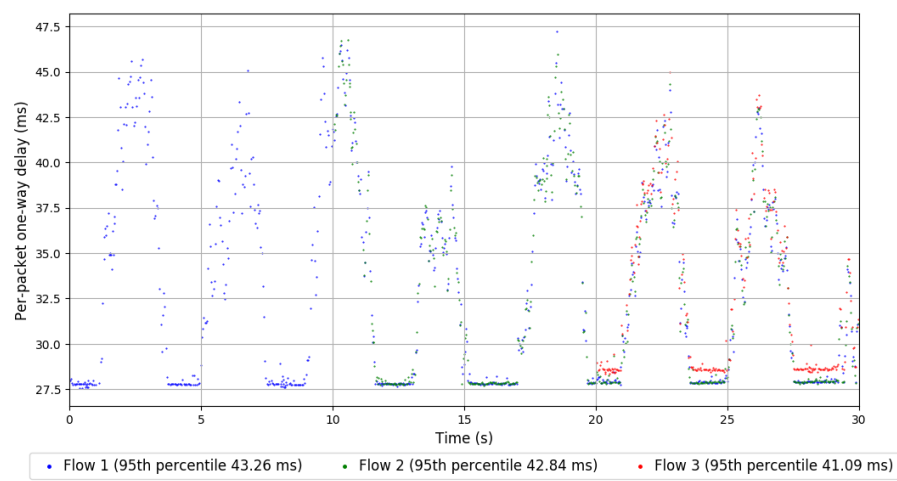
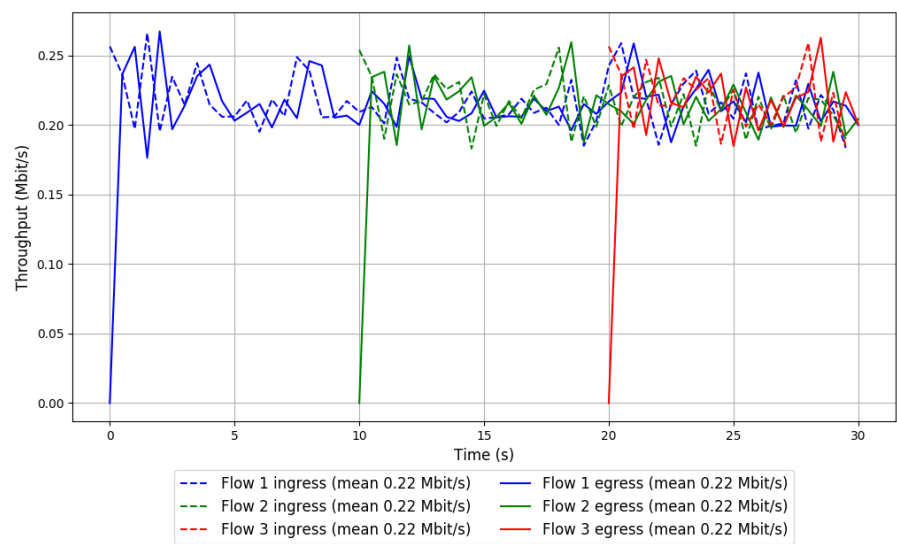


Run 1: Statistics of SReAM

Start at: 2018-06-18 16:33:30
End at: 2018-06-18 16:34:00
Local clock offset: -2.911 ms
Remote clock offset: -2.446 ms

Below is generated by plot.py at 2018-06-18 20:10:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 42.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 43.260 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 42.838 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 41.089 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

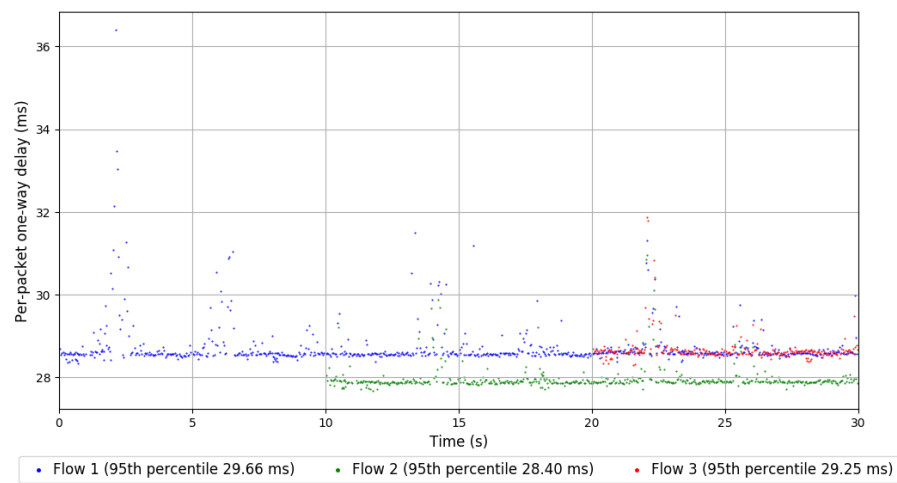
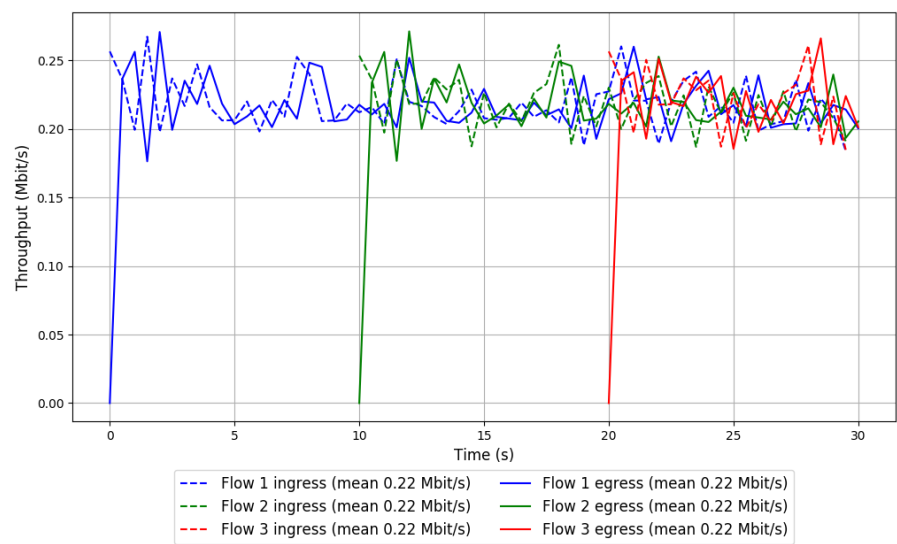


Run 2: Statistics of SReAM

Start at: 2018-06-18 16:54:49
End at: 2018-06-18 16:55:19
Local clock offset: 0.763 ms
Remote clock offset: -2.594 ms

Below is generated by plot.py at 2018-06-18 20:10:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 29.222 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.661 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.401 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.250 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

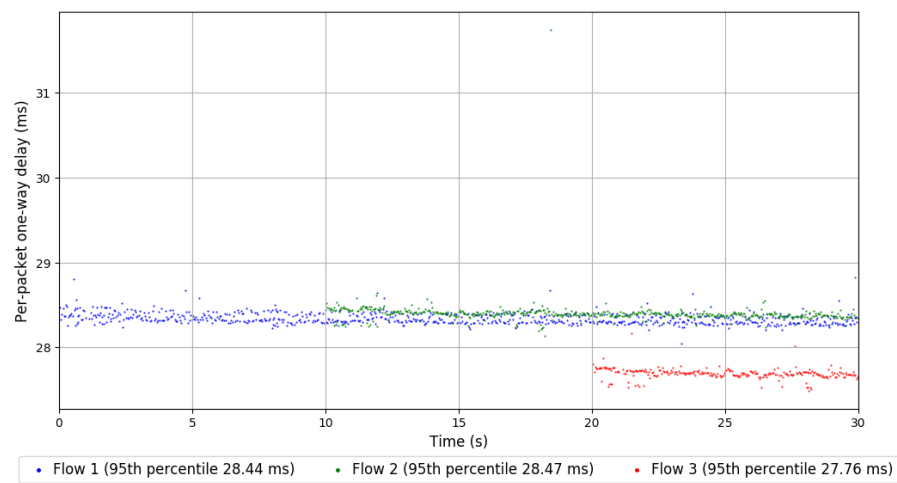
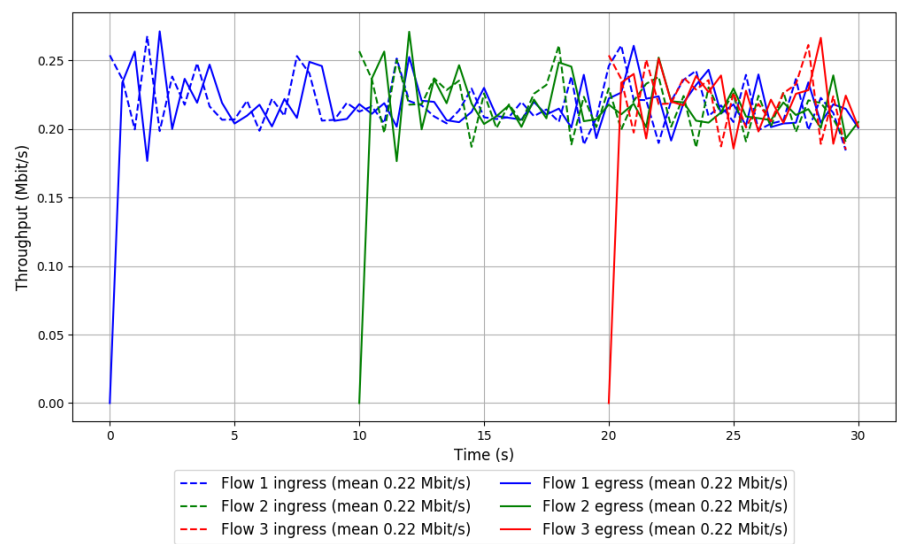


Run 3: Statistics of SReAM

Start at: 2018-06-18 17:16:15
End at: 2018-06-18 17:16:45
Local clock offset: 0.409 ms
Remote clock offset: -0.419 ms

Below is generated by plot.py at 2018-06-18 20:10:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 28.456 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.444 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.470 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.762 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-06-18 17:37:39

End at: 2018-06-18 17:38:09

Local clock offset: 0.185 ms

Remote clock offset: 1.384 ms

Below is generated by plot.py at 2018-06-18 20:10:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 28.623 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 27.979 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.646 ms

Loss rate: 0.00%

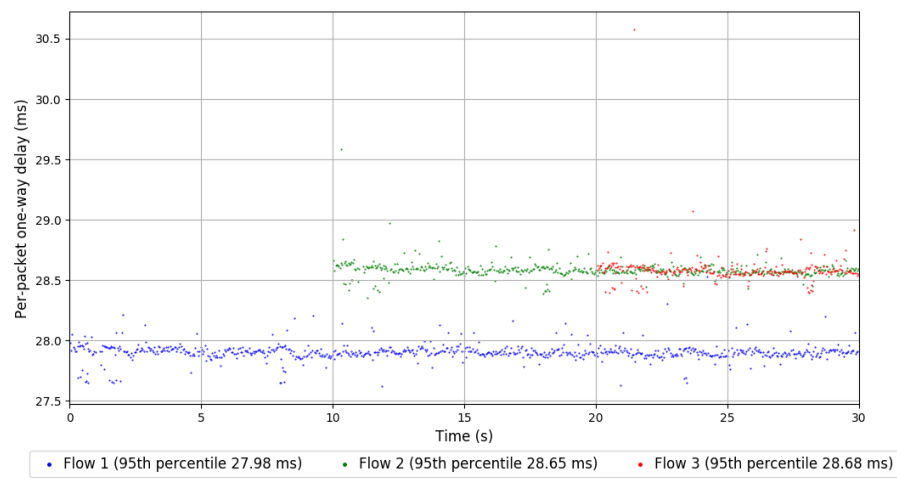
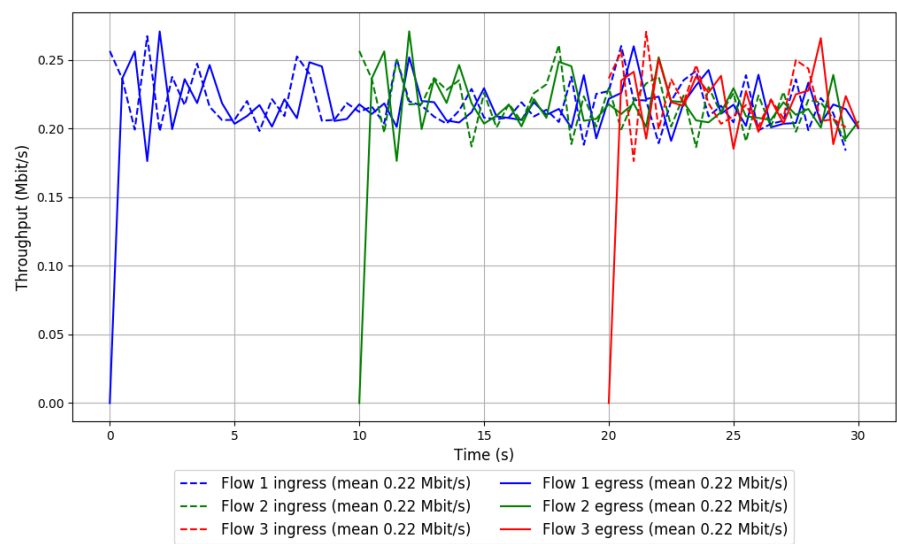
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.678 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-06-18 17:59:03

End at: 2018-06-18 17:59:33

Local clock offset: 0.361 ms

Remote clock offset: 2.288 ms

Below is generated by plot.py at 2018-06-18 20:10:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 28.571 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.580 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.582 ms

Loss rate: 0.00%

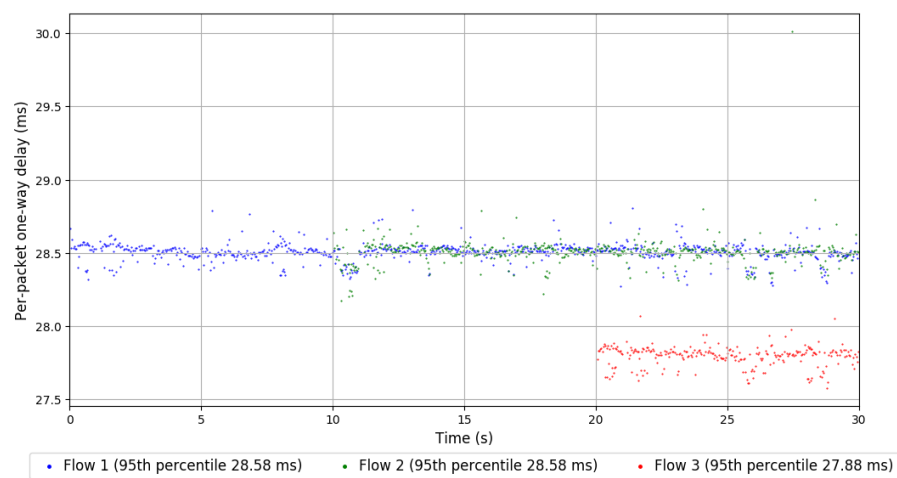
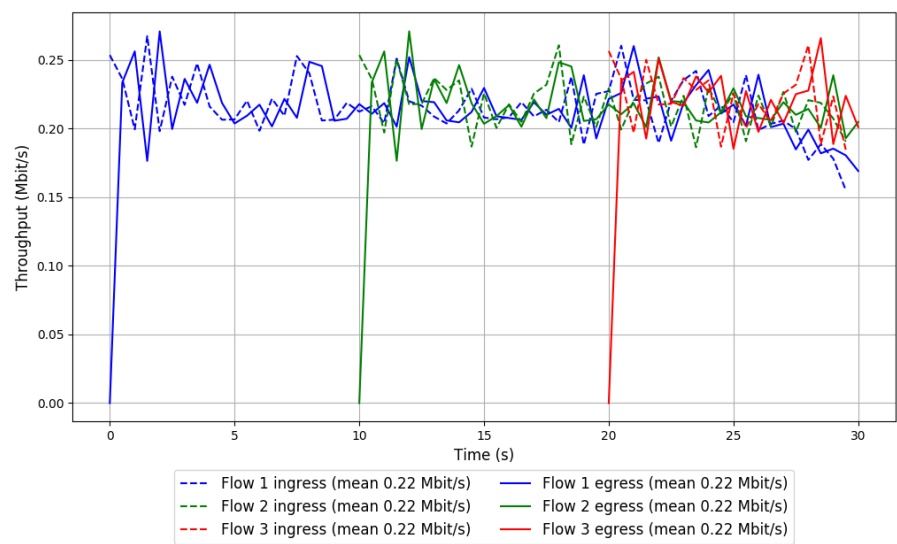
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 27.880 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-06-18 18:20:28

End at: 2018-06-18 18:20:58

Local clock offset: -2.803 ms

Remote clock offset: 0.307 ms

Below is generated by plot.py at 2018-06-18 20:10:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 28.720 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.732 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.717 ms

Loss rate: 0.00%

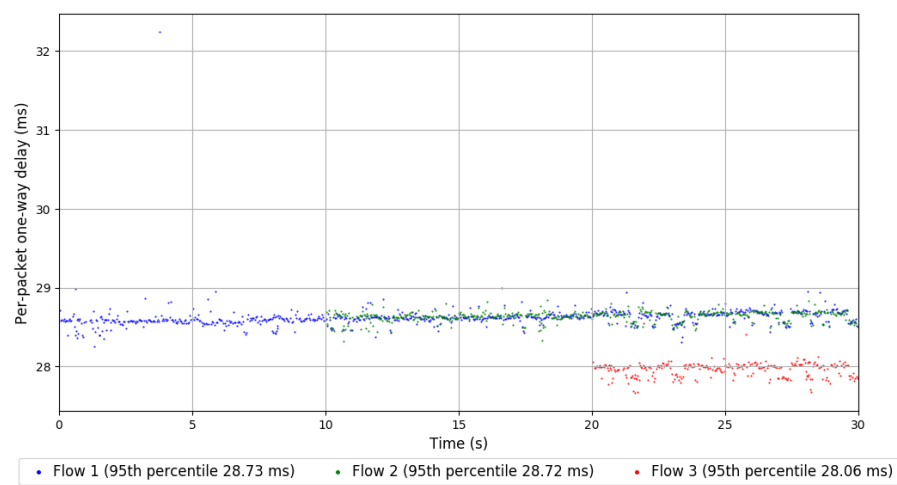
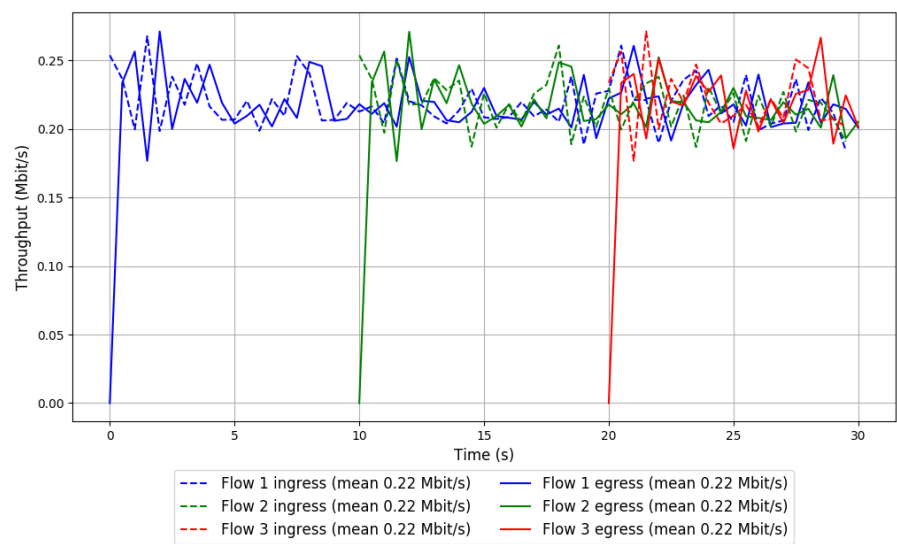
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.064 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

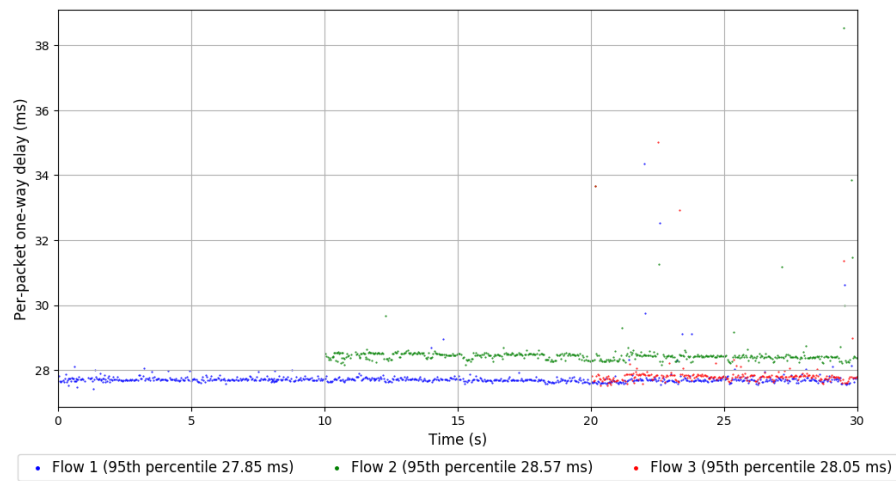
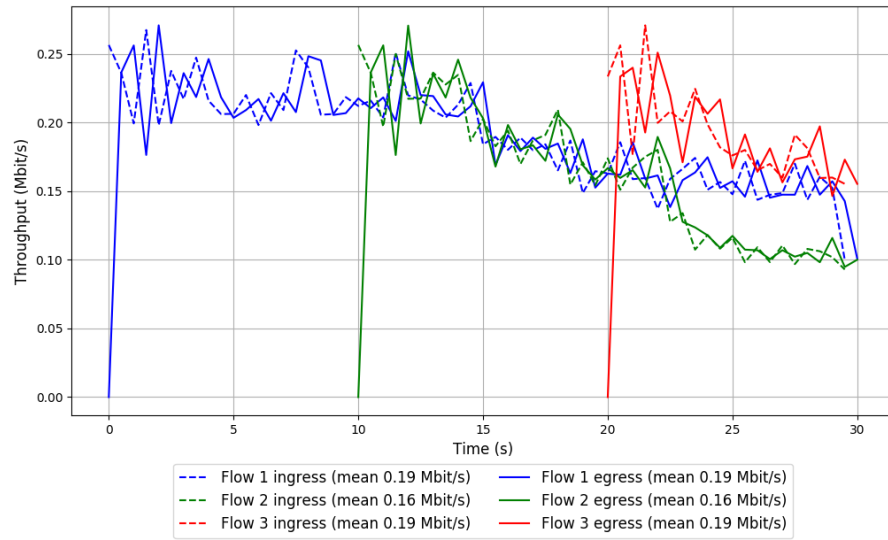


Run 7: Statistics of SReAM

Start at: 2018-06-18 18:41:59
End at: 2018-06-18 18:42:29
Local clock offset: -3.826 ms
Remote clock offset: -2.919 ms

Below is generated by plot.py at 2018-06-18 20:10:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 28.526 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 27.849 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 28.573 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 28.047 ms
Loss rate: 0.50%

Run 7: Report of SReAM — Data Link

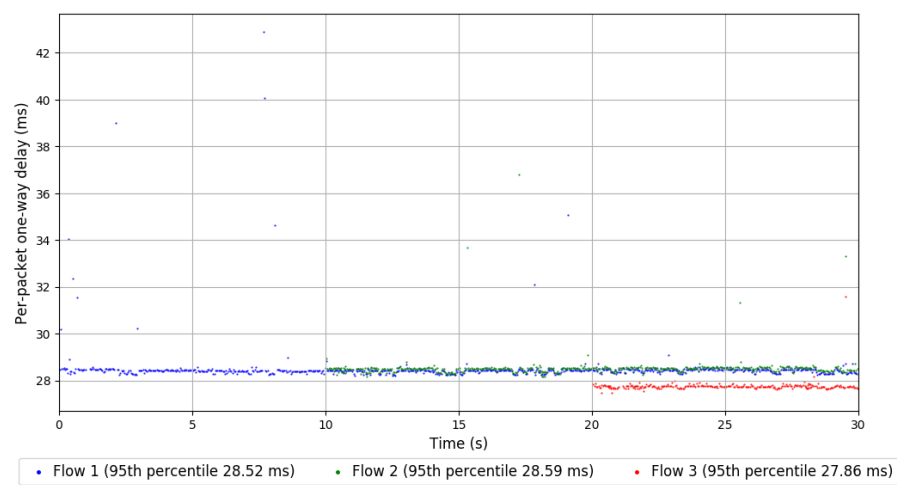
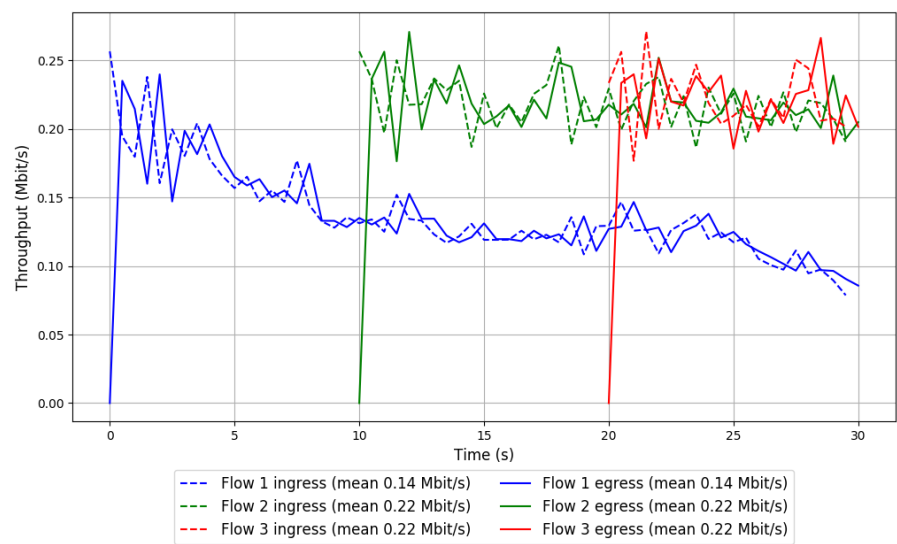


Run 8: Statistics of SReAM

Start at: 2018-06-18 19:03:28
End at: 2018-06-18 19:03:58
Local clock offset: -4.309 ms
Remote clock offset: -3.615 ms

Below is generated by plot.py at 2018-06-18 20:10:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 28.563 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 28.524 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.593 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.860 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

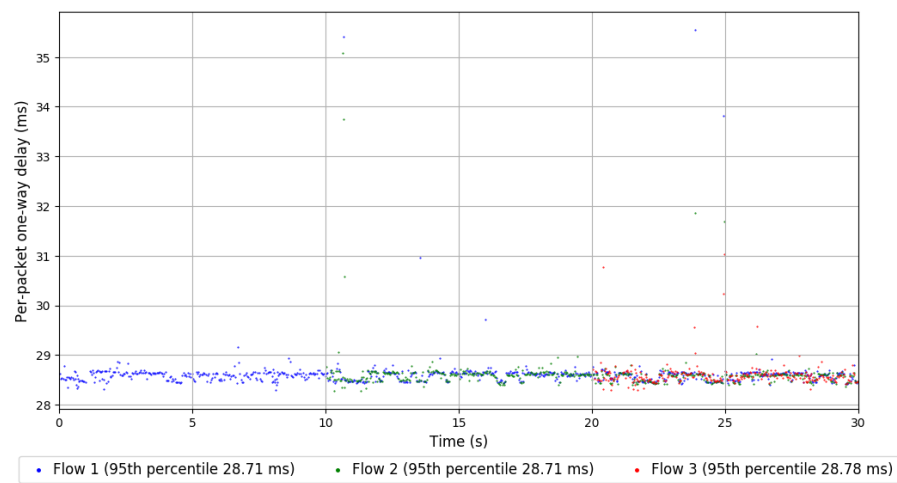
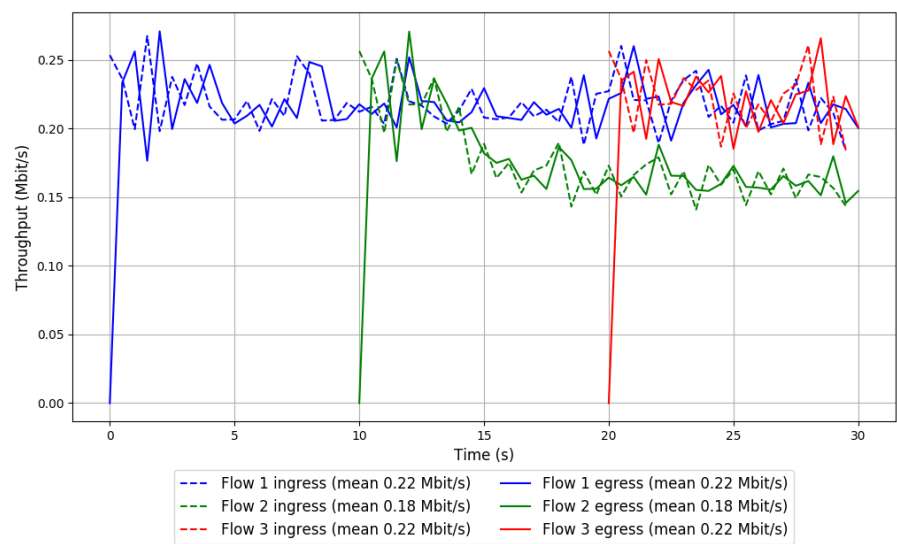


Run 9: Statistics of SCReAM

Start at: 2018-06-18 19:25:12
End at: 2018-06-18 19:25:42
Local clock offset: -2.231 ms
Remote clock offset: -3.815 ms

Below is generated by plot.py at 2018-06-18 20:10:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 28.721 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.711 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 28.709 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.784 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-18 19:46:37

End at: 2018-06-18 19:47:07

Local clock offset: -2.199 ms

Remote clock offset: -3.04 ms

Below is generated by plot.py at 2018-06-18 20:10:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 28.610 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 27.952 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 27.975 ms

Loss rate: 0.00%

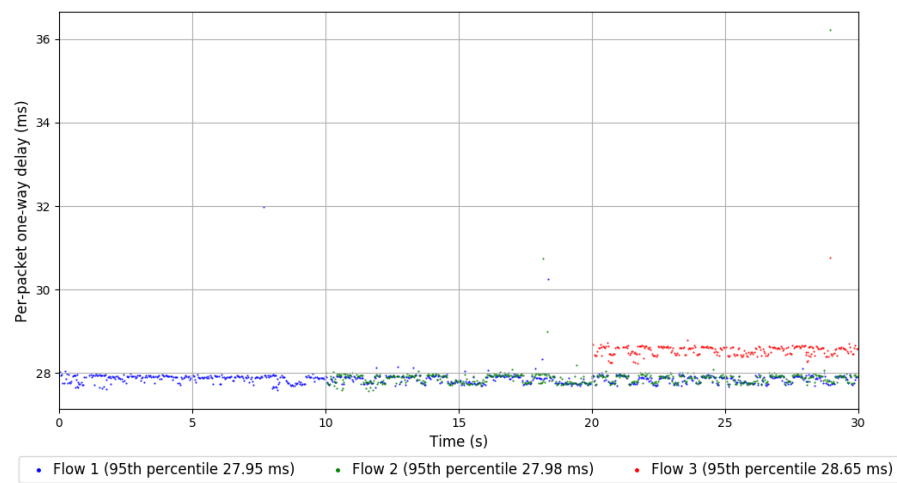
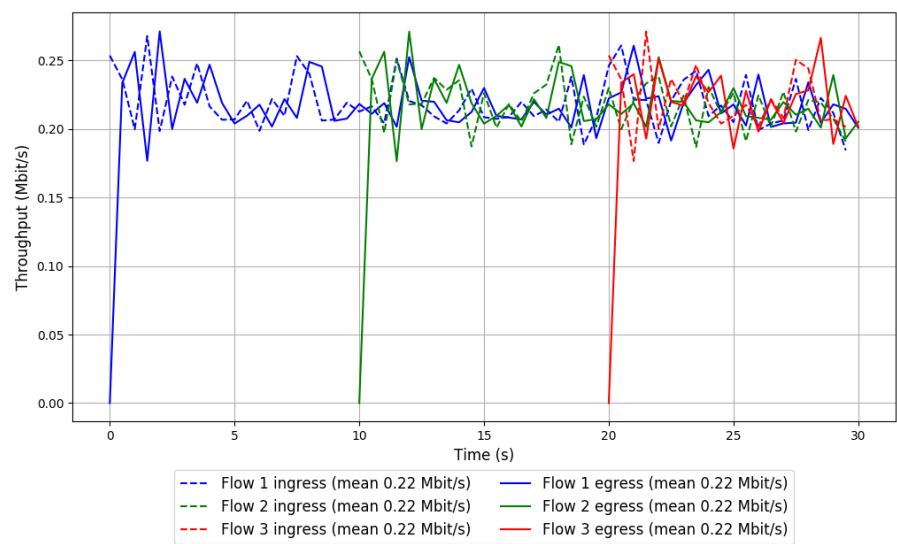
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.646 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-18 16:32:12

End at: 2018-06-18 16:32:42

Local clock offset: -2.976 ms

Remote clock offset: -2.24 ms

Below is generated by plot.py at 2018-06-18 20:10:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.21 Mbit/s

95th percentile per-packet one-way delay: 42.871 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 11.78 Mbit/s

95th percentile per-packet one-way delay: 43.727 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 11.52 Mbit/s

95th percentile per-packet one-way delay: 42.615 ms

Loss rate: 0.06%

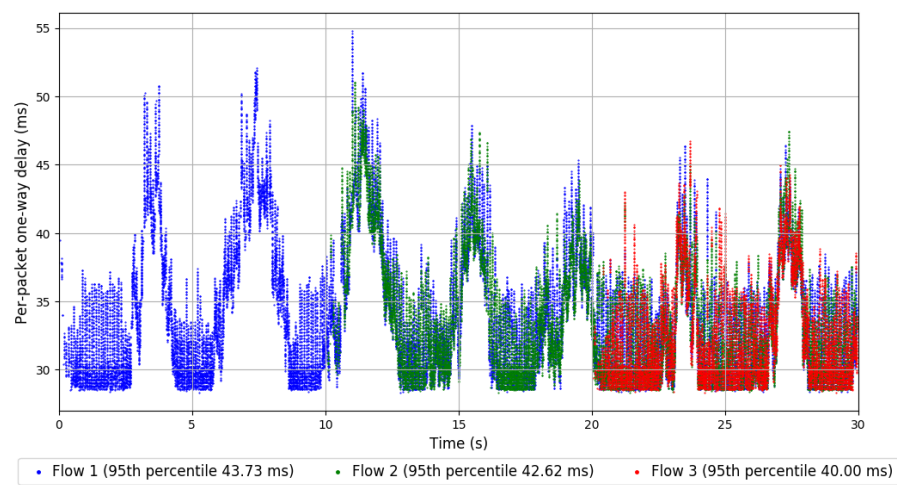
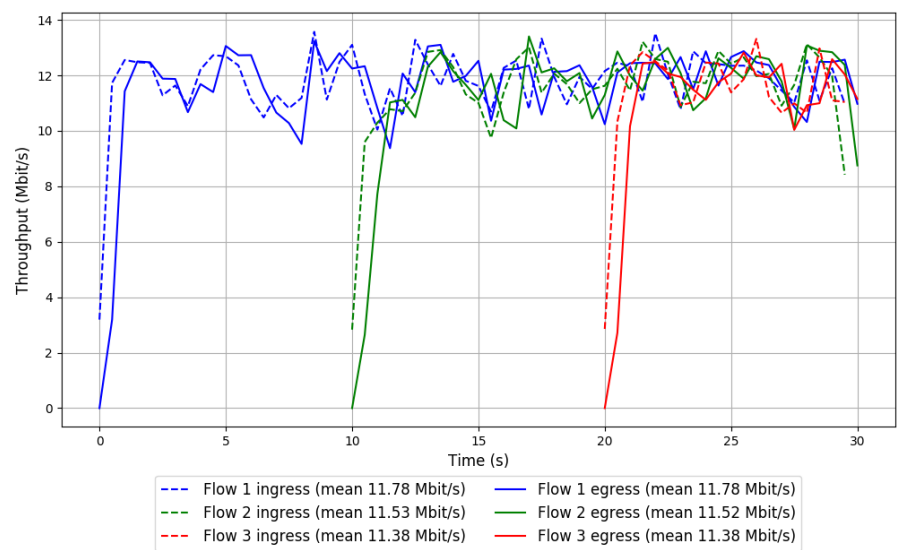
-- Flow 3:

Average throughput: 11.38 Mbit/s

95th percentile per-packet one-way delay: 39.999 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

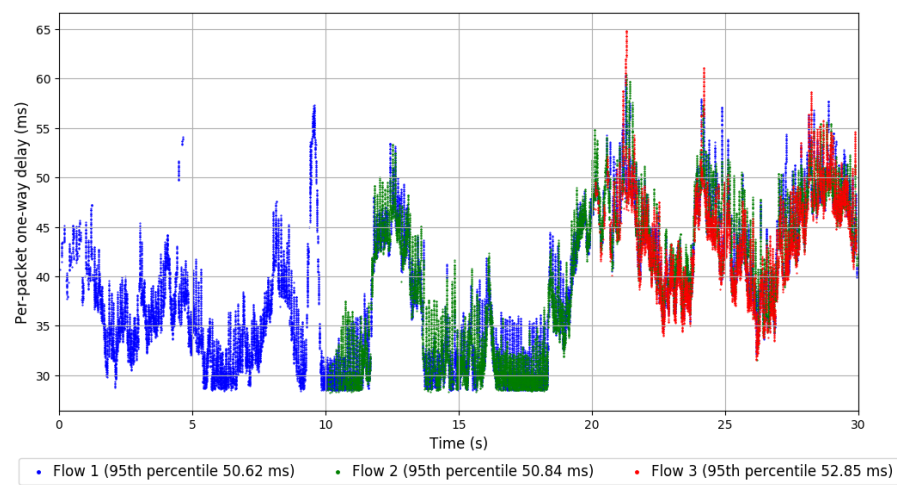
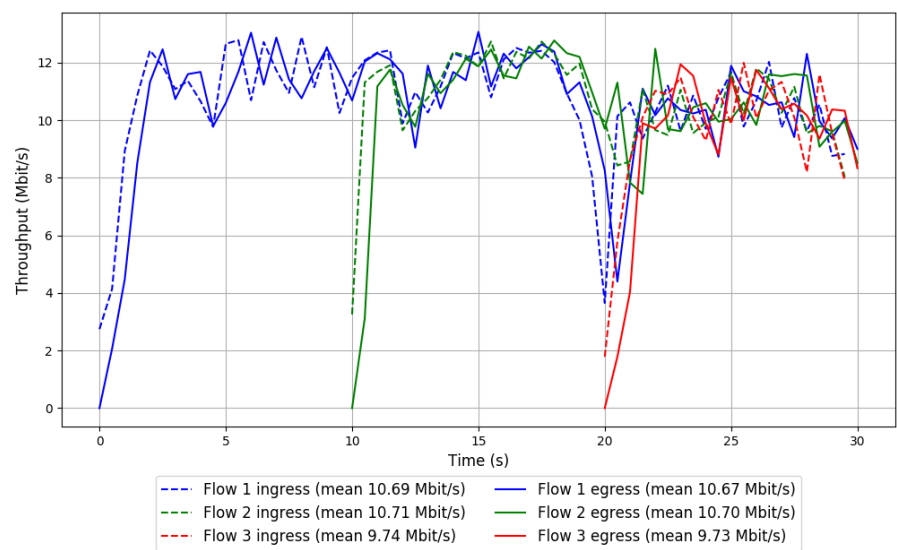


Run 2: Statistics of Sprout

Start at: 2018-06-18 16:53:31
End at: 2018-06-18 16:54:01
Local clock offset: 0.671 ms
Remote clock offset: -2.587 ms

Below is generated by plot.py at 2018-06-18 20:10:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.00 Mbit/s
95th percentile per-packet one-way delay: 51.032 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 10.67 Mbit/s
95th percentile per-packet one-way delay: 50.622 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 10.70 Mbit/s
95th percentile per-packet one-way delay: 50.845 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.73 Mbit/s
95th percentile per-packet one-way delay: 52.846 ms
Loss rate: 0.10%

Run 2: Report of Sprout — Data Link

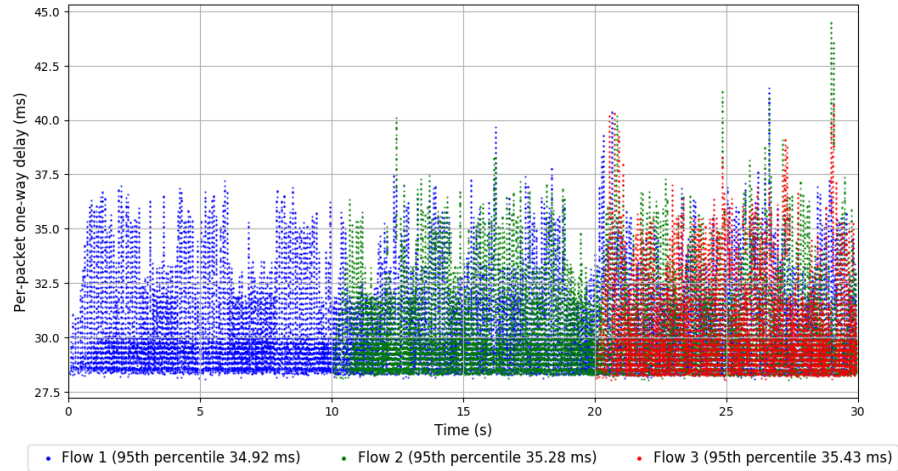
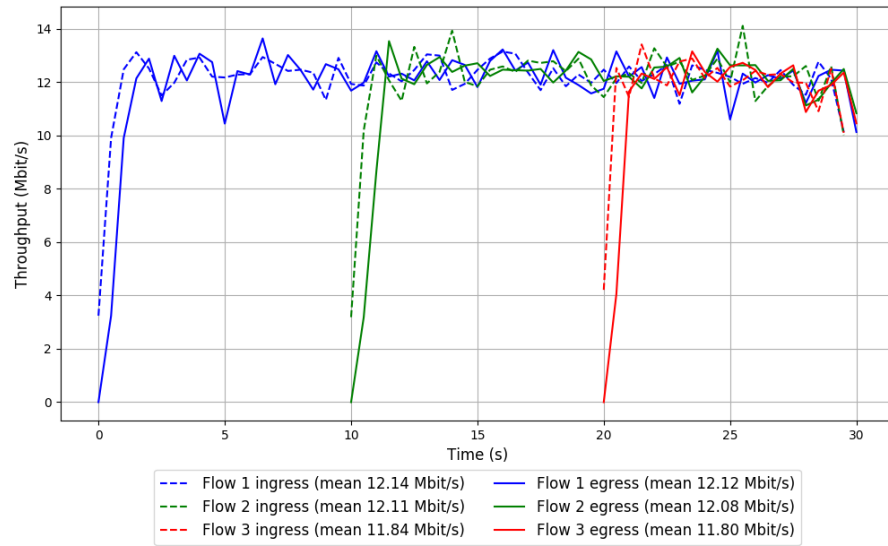


Run 3: Statistics of Sprout

Start at: 2018-06-18 17:14:57
End at: 2018-06-18 17:15:27
Local clock offset: 0.444 ms
Remote clock offset: -0.593 ms

```
# Below is generated by plot.py at 2018-06-18 20:10:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.04 Mbit/s
95th percentile per-packet one-way delay: 35.103 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 12.12 Mbit/s
95th percentile per-packet one-way delay: 34.917 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 35.277 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 35.433 ms
Loss rate: 0.34%
```

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-18 17:36:21

End at: 2018-06-18 17:36:51

Local clock offset: 0.162 ms

Remote clock offset: 1.325 ms

Below is generated by plot.py at 2018-06-18 20:10:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.19 Mbit/s

95th percentile per-packet one-way delay: 35.394 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.27 Mbit/s

95th percentile per-packet one-way delay: 34.985 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.15 Mbit/s

95th percentile per-packet one-way delay: 35.011 ms

Loss rate: 0.00%

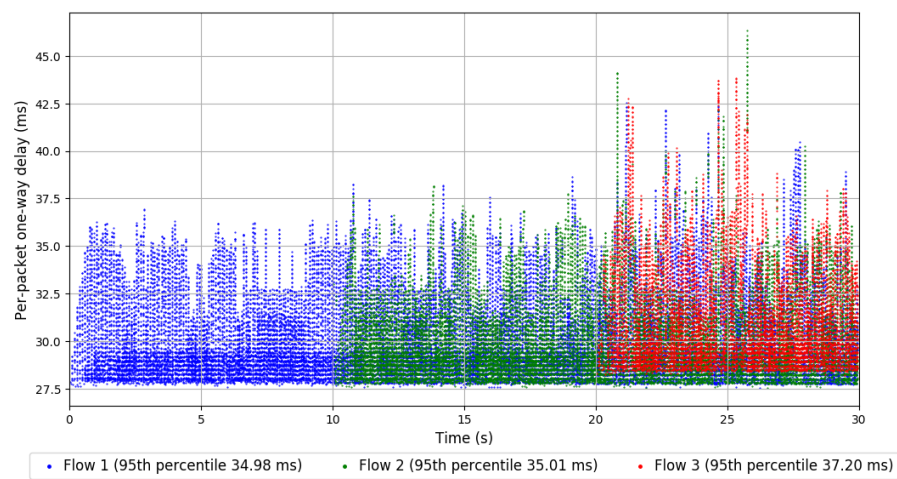
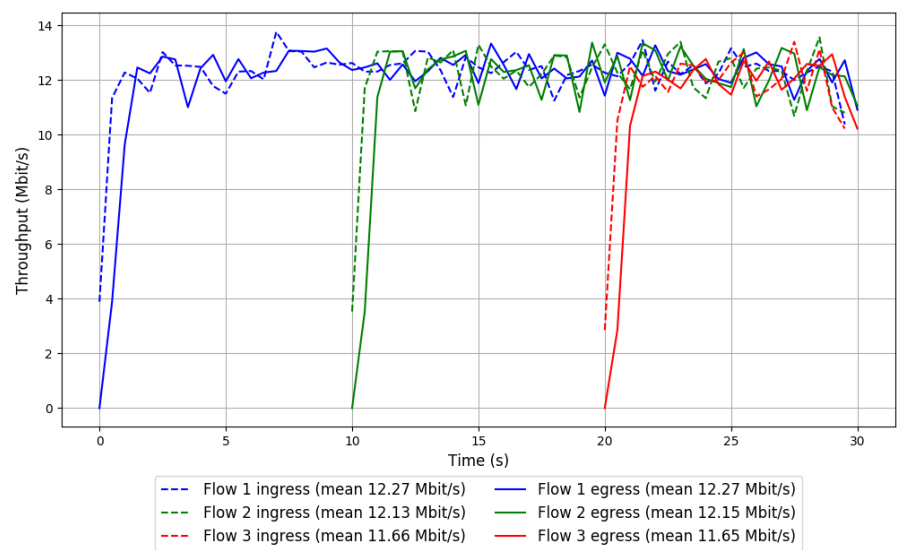
-- Flow 3:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 37.204 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-18 17:57:45

End at: 2018-06-18 17:58:15

Local clock offset: 0.352 ms

Remote clock offset: 2.211 ms

Below is generated by plot.py at 2018-06-18 20:10:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.28 Mbit/s

95th percentile per-packet one-way delay: 34.921 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 12.37 Mbit/s

95th percentile per-packet one-way delay: 34.694 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 34.900 ms

Loss rate: 0.00%

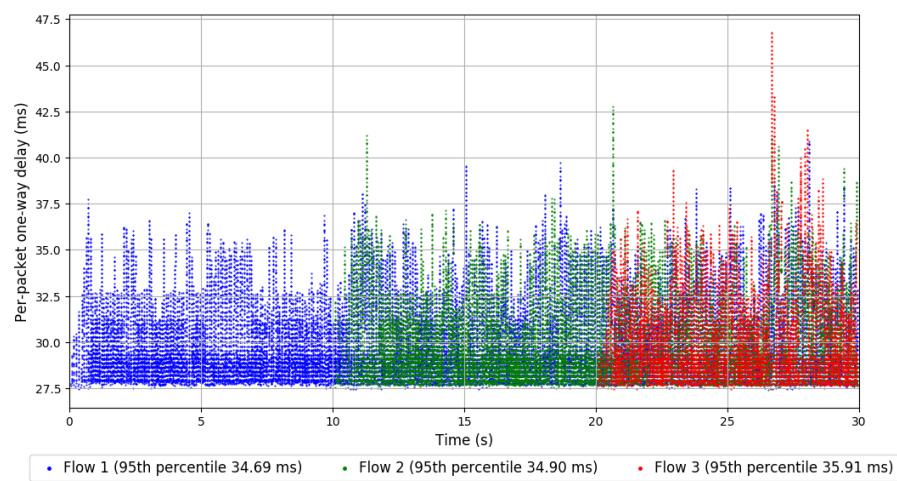
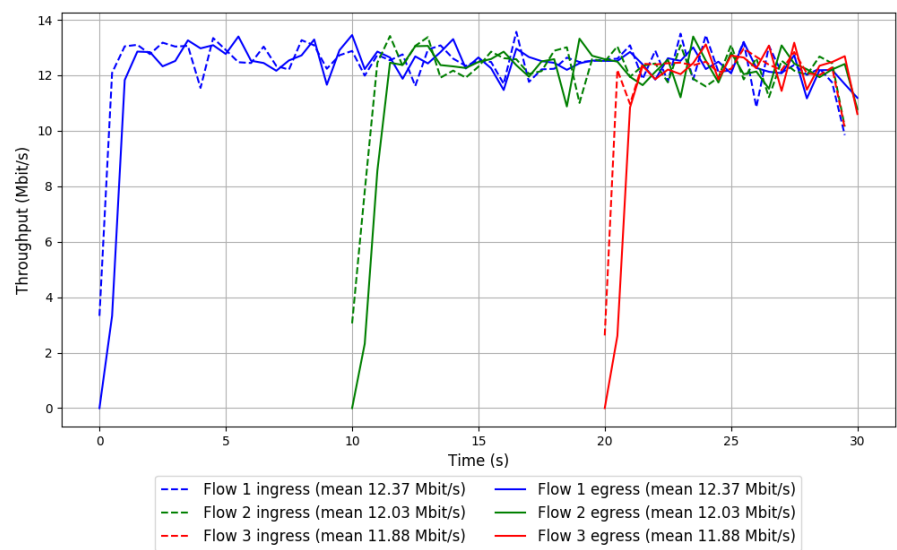
-- Flow 3:

Average throughput: 11.88 Mbit/s

95th percentile per-packet one-way delay: 35.907 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

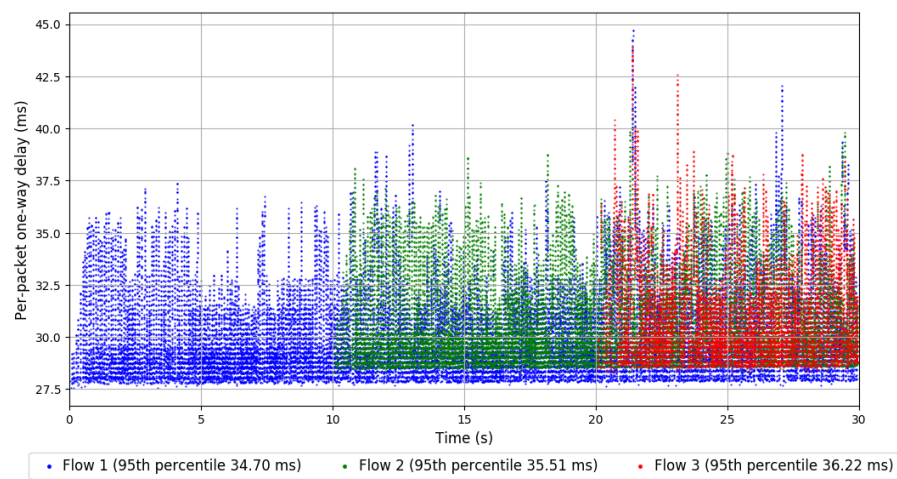
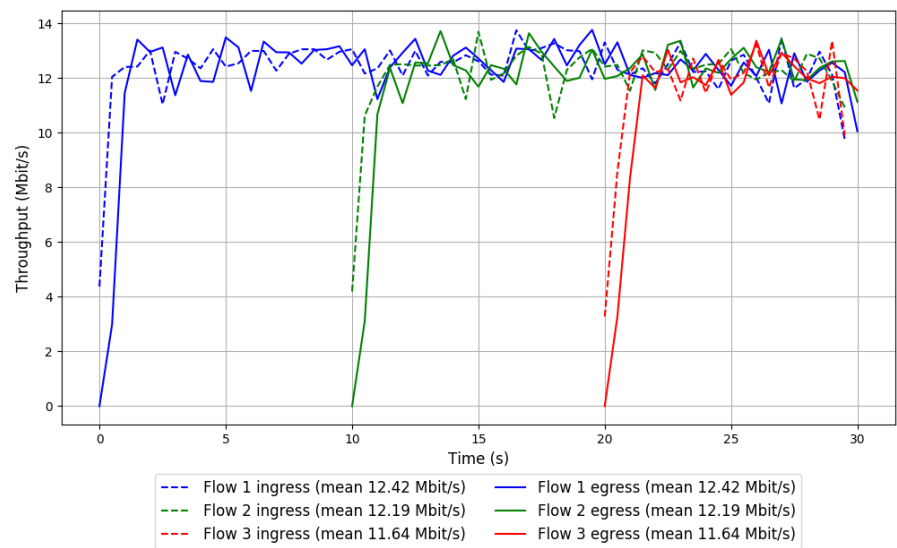


Run 6: Statistics of Sprout

Start at: 2018-06-18 18:19:10
End at: 2018-06-18 18:19:40
Local clock offset: -2.673 ms
Remote clock offset: 0.864 ms

```
# Below is generated by plot.py at 2018-06-18 20:10:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.36 Mbit/s
95th percentile per-packet one-way delay: 35.285 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.42 Mbit/s
95th percentile per-packet one-way delay: 34.698 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 35.513 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.64 Mbit/s
95th percentile per-packet one-way delay: 36.219 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

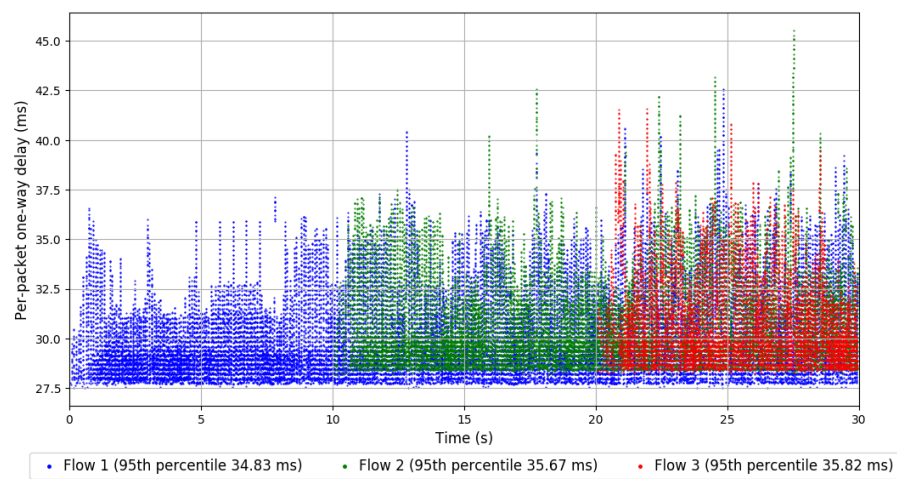
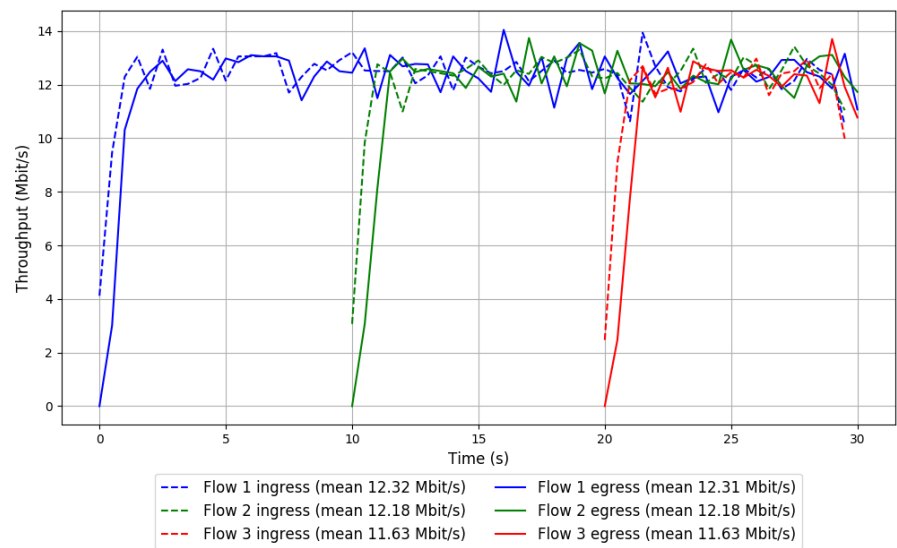


Run 7: Statistics of Sprout

Start at: 2018-06-18 18:40:41
End at: 2018-06-18 18:41:11
Local clock offset: -3.884 ms
Remote clock offset: -2.897 ms

Below is generated by plot.py at 2018-06-18 20:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.25 Mbit/s
95th percentile per-packet one-way delay: 35.301 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 34.828 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 12.18 Mbit/s
95th percentile per-packet one-way delay: 35.675 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 35.818 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

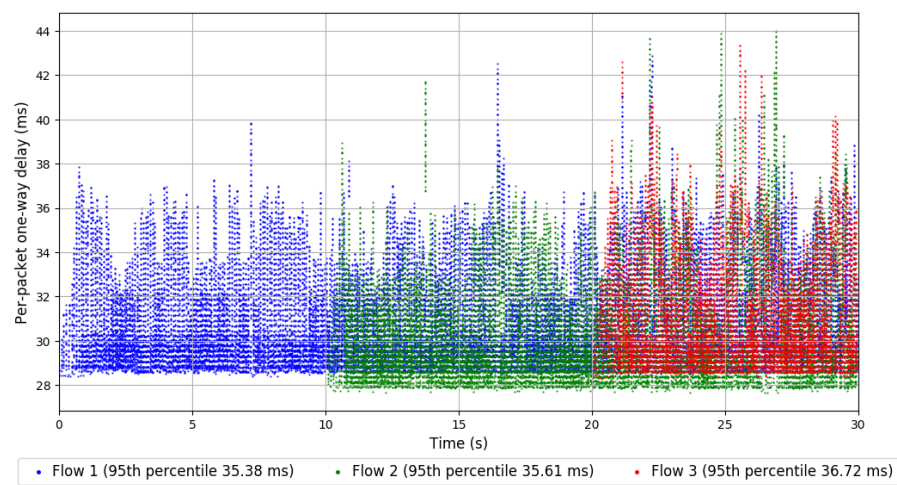
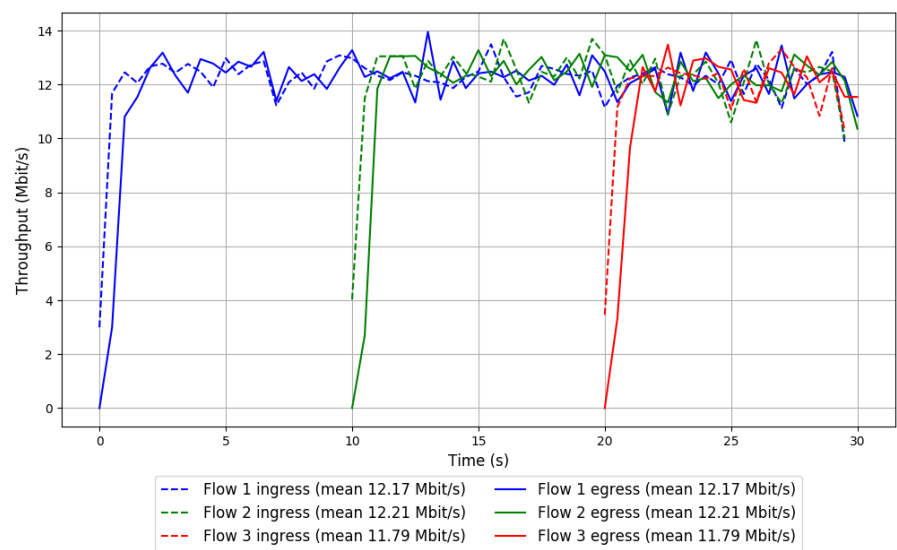


Run 8: Statistics of Sprout

Start at: 2018-06-18 19:02:10
End at: 2018-06-18 19:02:40
Local clock offset: -4.388 ms
Remote clock offset: -3.437 ms

Below is generated by plot.py at 2018-06-18 20:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.18 Mbit/s
95th percentile per-packet one-way delay: 35.693 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.17 Mbit/s
95th percentile per-packet one-way delay: 35.385 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.21 Mbit/s
95th percentile per-packet one-way delay: 35.609 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.79 Mbit/s
95th percentile per-packet one-way delay: 36.721 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

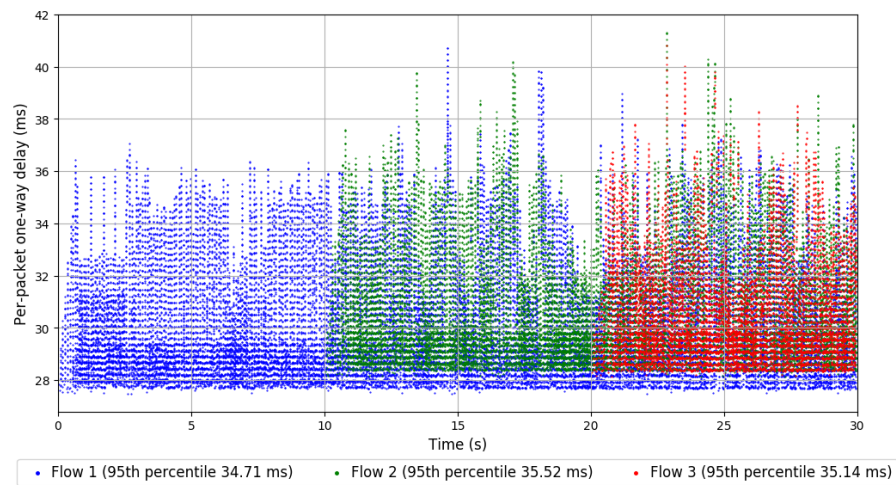
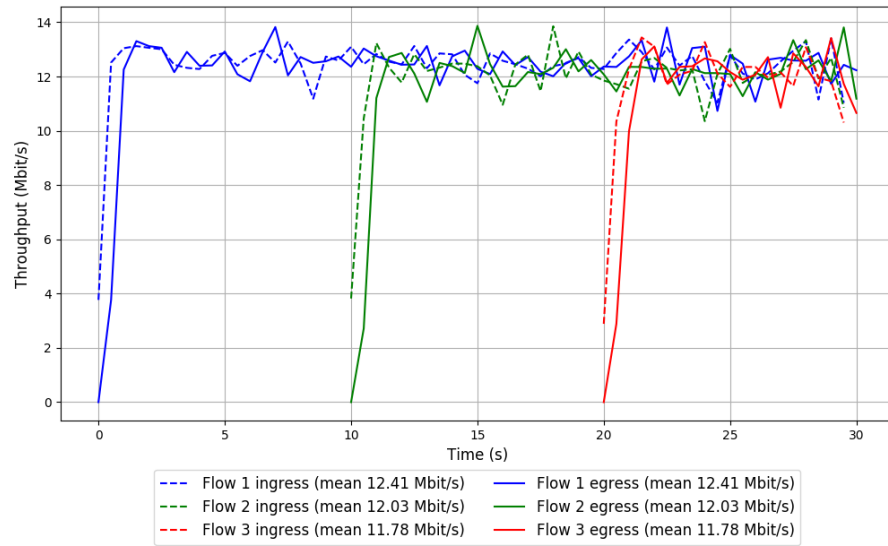


Run 9: Statistics of Sprout

Start at: 2018-06-18 19:23:55
End at: 2018-06-18 19:24:25
Local clock offset: -2.196 ms
Remote clock offset: -3.988 ms

Below is generated by plot.py at 2018-06-18 20:10:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 35.070 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 34.707 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 35.519 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 35.140 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

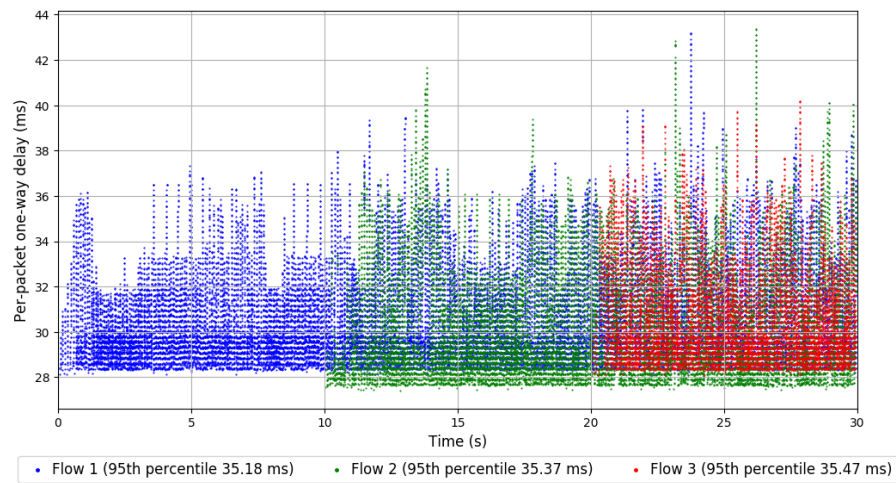
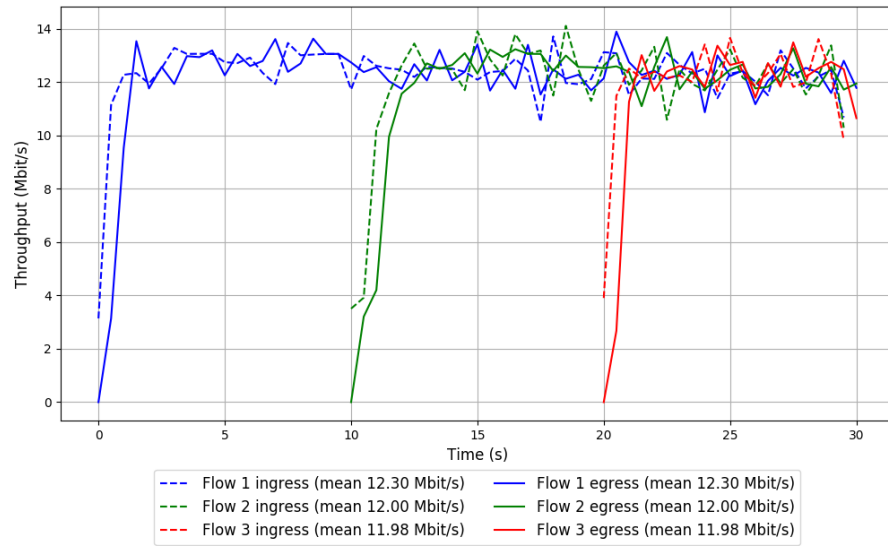


Run 10: Statistics of Sprout

Start at: 2018-06-18 19:45:20
End at: 2018-06-18 19:45:50
Local clock offset: -2.118 ms
Remote clock offset: -3.085 ms

```
# Below is generated by plot.py at 2018-06-18 20:10:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.24 Mbit/s
95th percentile per-packet one-way delay: 35.316 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 35.176 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.00 Mbit/s
95th percentile per-packet one-way delay: 35.374 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 35.469 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link

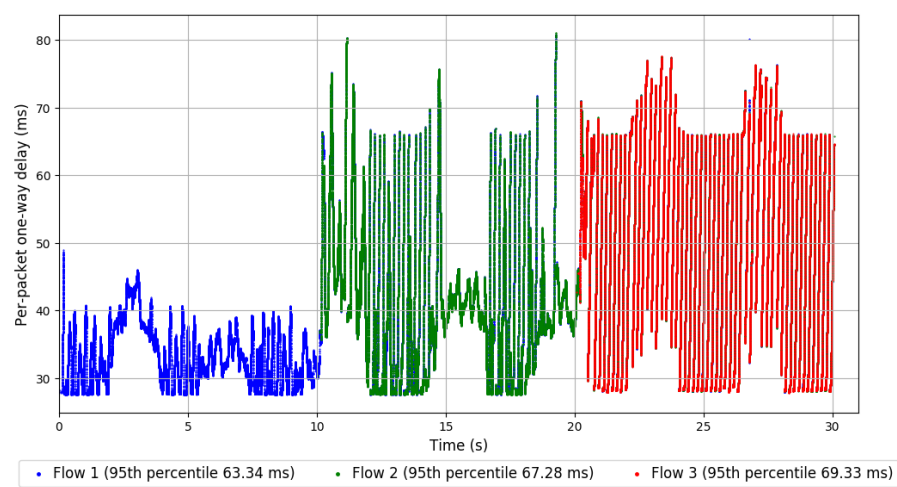
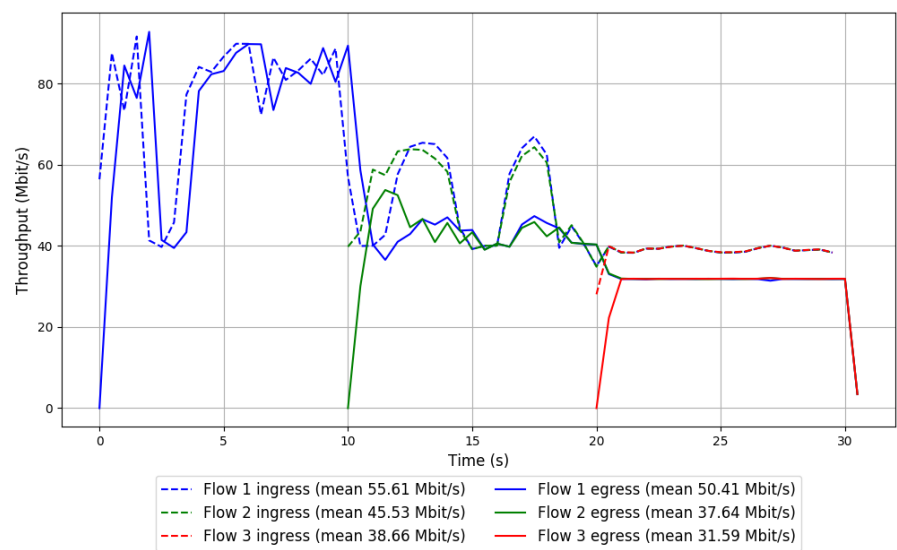


Run 1: Statistics of TaoVA-100x

Start at: 2018-06-18 16:30:49
End at: 2018-06-18 16:31:19
Local clock offset: -2.864 ms
Remote clock offset: -2.315 ms

Below is generated by plot.py at 2018-06-18 20:12:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.01 Mbit/s
95th percentile per-packet one-way delay: 65.942 ms
Loss rate: 12.83%
-- Flow 1:
Average throughput: 50.41 Mbit/s
95th percentile per-packet one-way delay: 63.337 ms
Loss rate: 9.23%
-- Flow 2:
Average throughput: 37.64 Mbit/s
95th percentile per-packet one-way delay: 67.282 ms
Loss rate: 17.18%
-- Flow 3:
Average throughput: 31.59 Mbit/s
95th percentile per-packet one-way delay: 69.329 ms
Loss rate: 18.12%

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

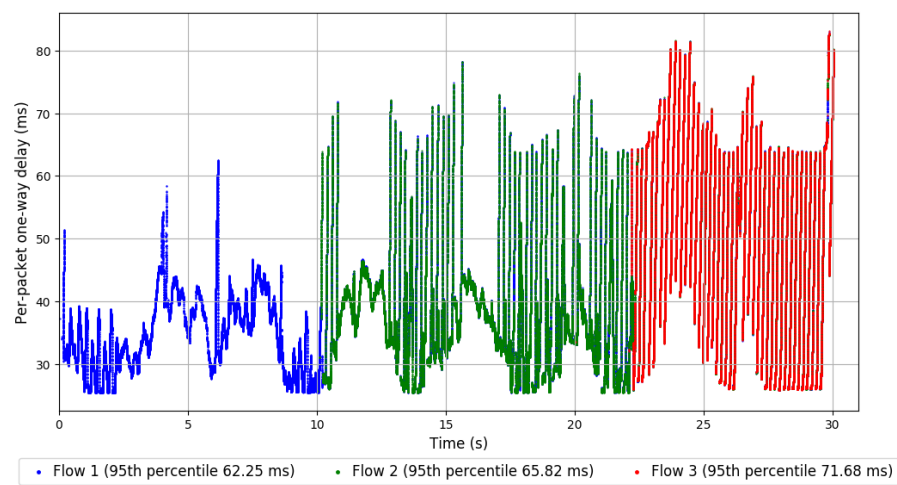
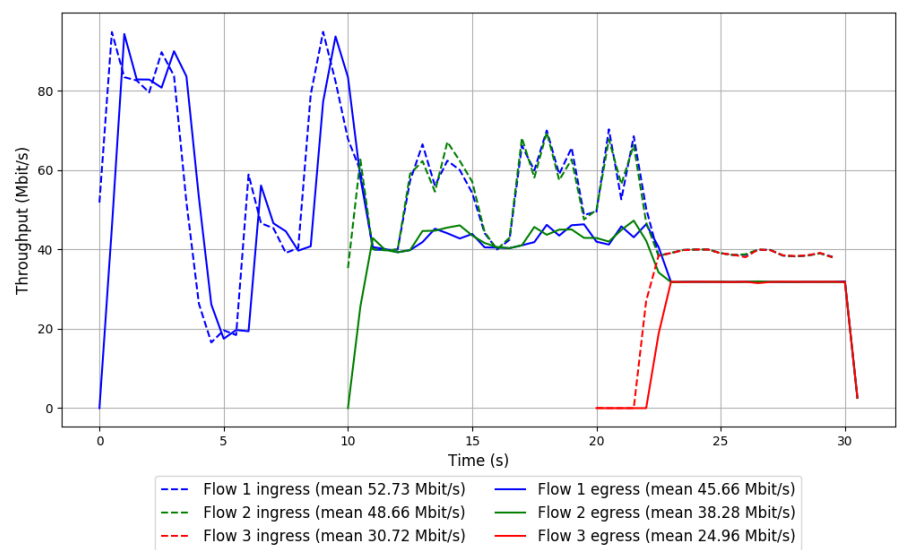


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-18 16:52:08
End at: 2018-06-18 16:52:38
Local clock offset: 0.585 ms
Remote clock offset: -5.531 ms

Below is generated by plot.py at 2018-06-18 20:12:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.49 Mbit/s
95th percentile per-packet one-way delay: 65.087 ms
Loss rate: 16.61%
-- Flow 1:
Average throughput: 45.66 Mbit/s
95th percentile per-packet one-way delay: 62.251 ms
Loss rate: 13.38%
-- Flow 2:
Average throughput: 38.28 Mbit/s
95th percentile per-packet one-way delay: 65.820 ms
Loss rate: 21.23%
-- Flow 3:
Average throughput: 24.96 Mbit/s
95th percentile per-packet one-way delay: 71.684 ms
Loss rate: 18.60%

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

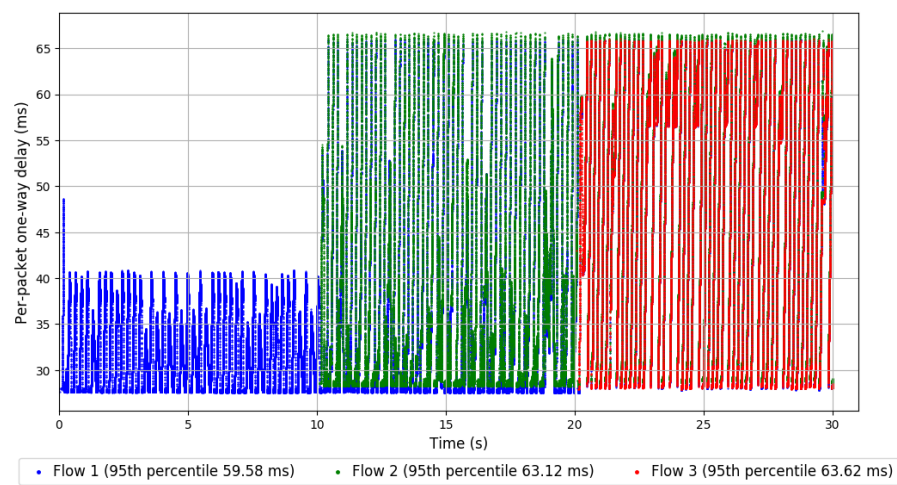
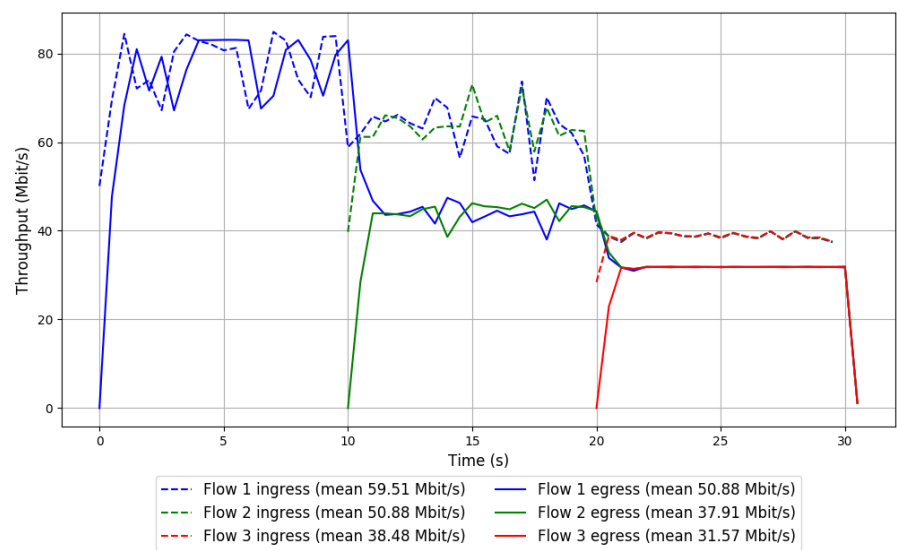


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-18 17:13:33
End at: 2018-06-18 17:14:03
Local clock offset: 0.495 ms
Remote clock offset: -0.803 ms

Below is generated by plot.py at 2018-06-18 20:12:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.59 Mbit/s
95th percentile per-packet one-way delay: 61.794 ms
Loss rate: 18.46%
-- Flow 1:
Average throughput: 50.88 Mbit/s
95th percentile per-packet one-way delay: 59.584 ms
Loss rate: 14.51%
-- Flow 2:
Average throughput: 37.91 Mbit/s
95th percentile per-packet one-way delay: 63.115 ms
Loss rate: 25.54%
-- Flow 3:
Average throughput: 31.57 Mbit/s
95th percentile per-packet one-way delay: 63.625 ms
Loss rate: 18.07%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-18 17:34:58

End at: 2018-06-18 17:35:28

Local clock offset: 0.124 ms

Remote clock offset: 1.211 ms

Below is generated by plot.py at 2018-06-18 20:13:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.80 Mbit/s

95th percentile per-packet one-way delay: 62.296 ms

Loss rate: 18.55%

-- Flow 1:

Average throughput: 52.38 Mbit/s

95th percentile per-packet one-way delay: 59.417 ms

Loss rate: 14.86%

-- Flow 2:

Average throughput: 38.28 Mbit/s

95th percentile per-packet one-way delay: 63.478 ms

Loss rate: 25.34%

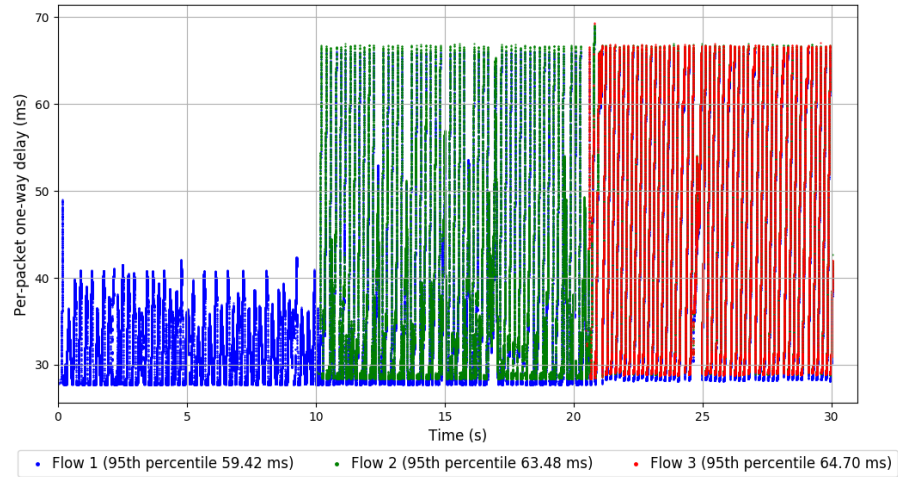
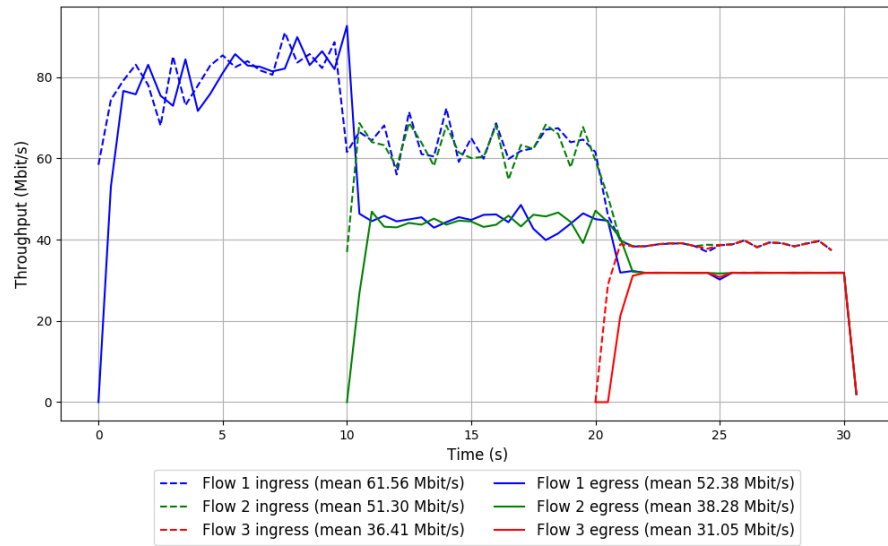
-- Flow 3:

Average throughput: 31.05 Mbit/s

95th percentile per-packet one-way delay: 64.699 ms

Loss rate: 18.10%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-18 17:56:22

End at: 2018-06-18 17:56:52

Local clock offset: 0.242 ms

Remote clock offset: 2.205 ms

Below is generated by plot.py at 2018-06-18 20:13:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.98 Mbit/s

95th percentile per-packet one-way delay: 61.152 ms

Loss rate: 19.68%

-- Flow 1:

Average throughput: 54.88 Mbit/s

95th percentile per-packet one-way delay: 58.765 ms

Loss rate: 15.75%

-- Flow 2:

Average throughput: 40.45 Mbit/s

95th percentile per-packet one-way delay: 62.310 ms

Loss rate: 26.68%

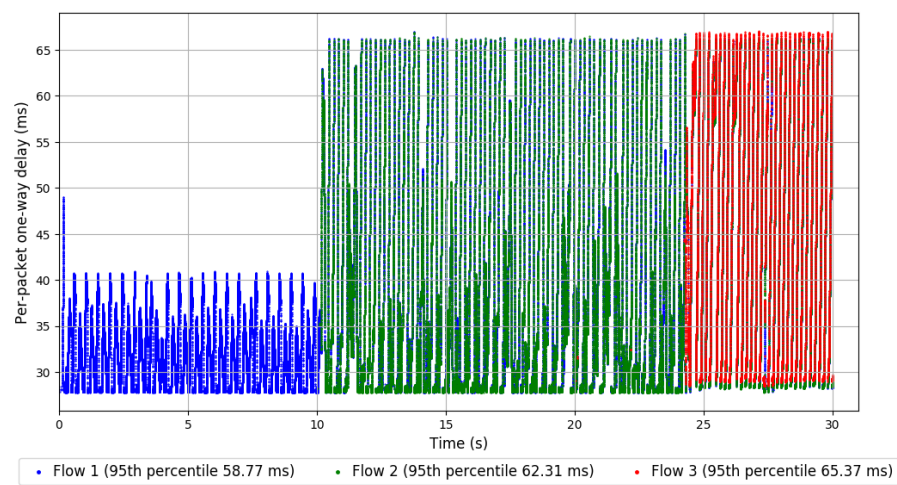
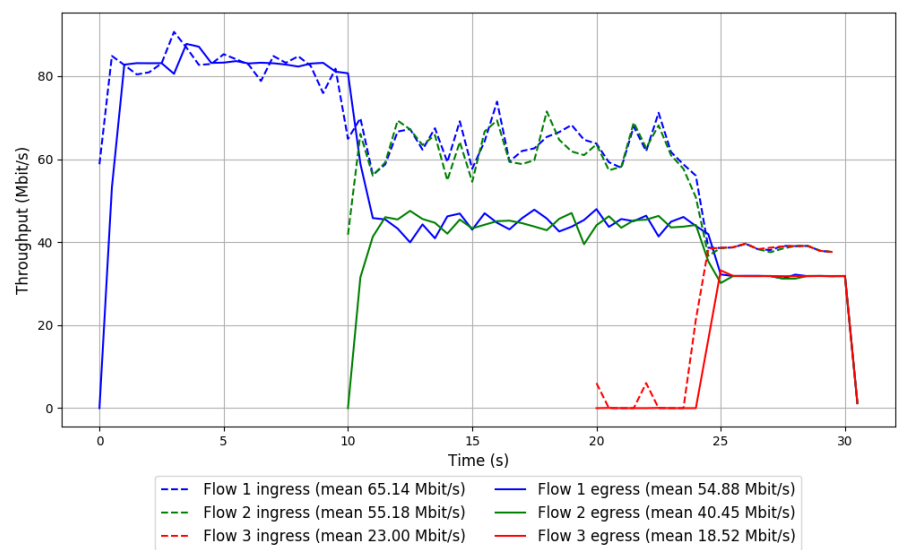
-- Flow 3:

Average throughput: 18.52 Mbit/s

95th percentile per-packet one-way delay: 65.372 ms

Loss rate: 19.47%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-18 18:17:47

End at: 2018-06-18 18:18:17

Local clock offset: -2.536 ms

Remote clock offset: 1.447 ms

Below is generated by plot.py at 2018-06-18 20:13:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.71 Mbit/s

95th percentile per-packet one-way delay: 61.852 ms

Loss rate: 17.45%

-- Flow 1:

Average throughput: 52.95 Mbit/s

95th percentile per-packet one-way delay: 59.401 ms

Loss rate: 13.30%

-- Flow 2:

Average throughput: 37.95 Mbit/s

95th percentile per-packet one-way delay: 62.790 ms

Loss rate: 24.86%

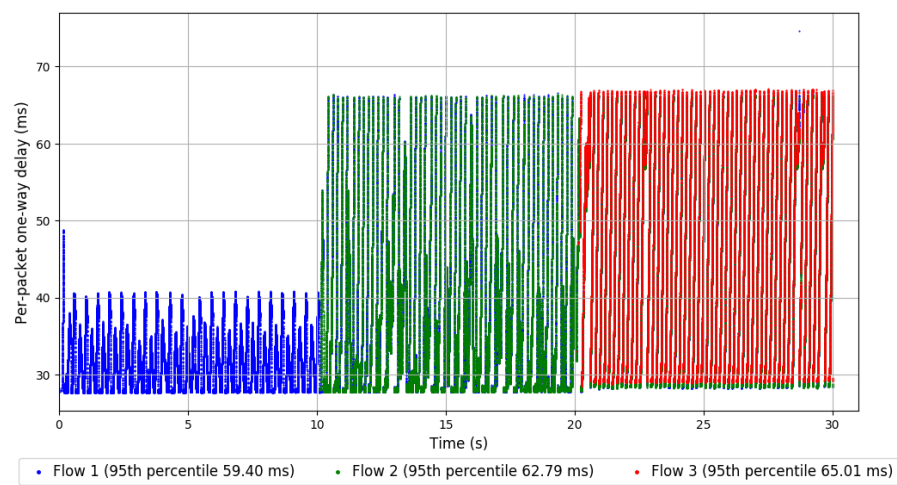
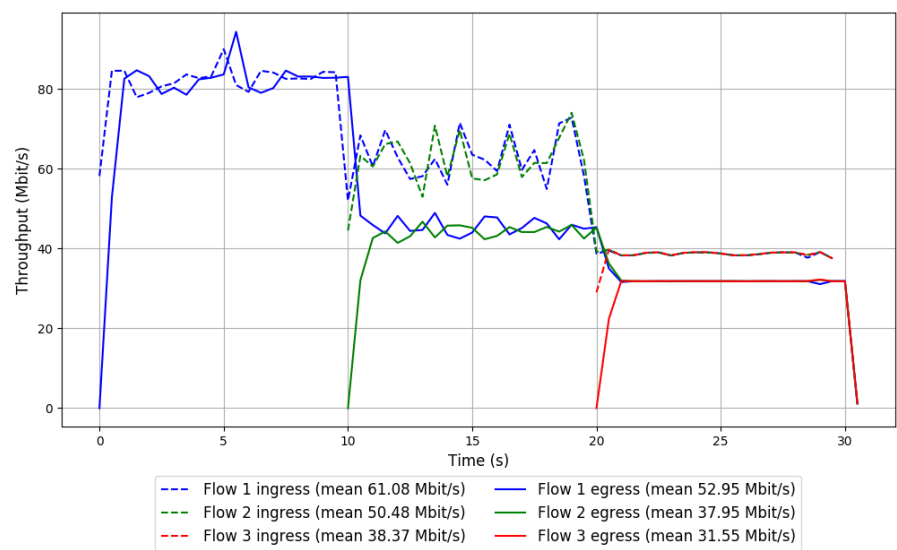
-- Flow 3:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 65.007 ms

Loss rate: 17.80%

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

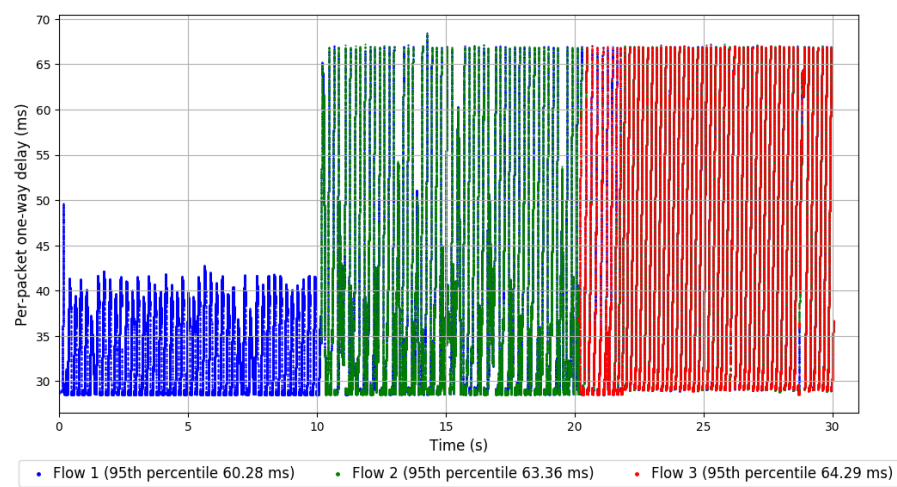
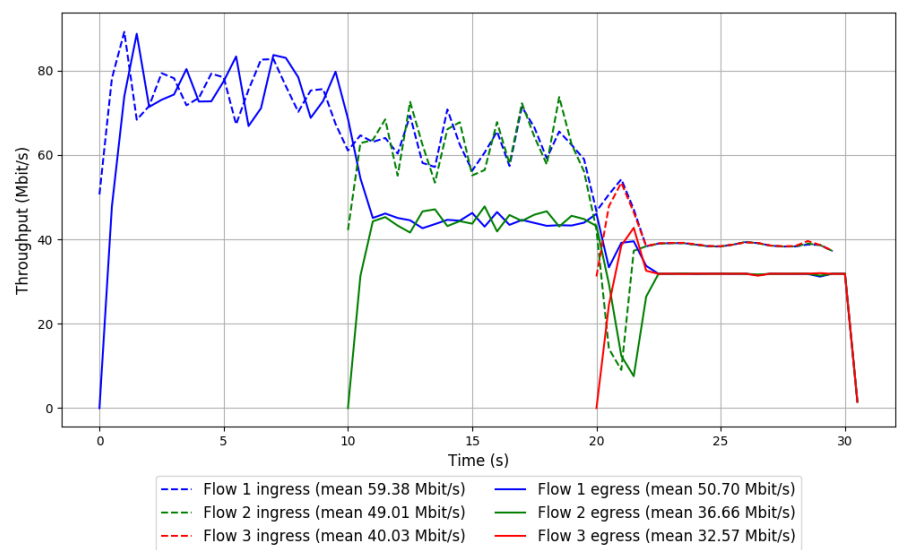


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-18 18:39:17
End at: 2018-06-18 18:39:47
Local clock offset: -3.837 ms
Remote clock offset: -2.645 ms

Below is generated by plot.py at 2018-06-18 20:13:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.94 Mbit/s
95th percentile per-packet one-way delay: 62.339 ms
Loss rate: 18.39%
-- Flow 1:
Average throughput: 50.70 Mbit/s
95th percentile per-packet one-way delay: 60.283 ms
Loss rate: 14.59%
-- Flow 2:
Average throughput: 36.66 Mbit/s
95th percentile per-packet one-way delay: 63.363 ms
Loss rate: 25.17%
-- Flow 3:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 64.292 ms
Loss rate: 18.71%

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

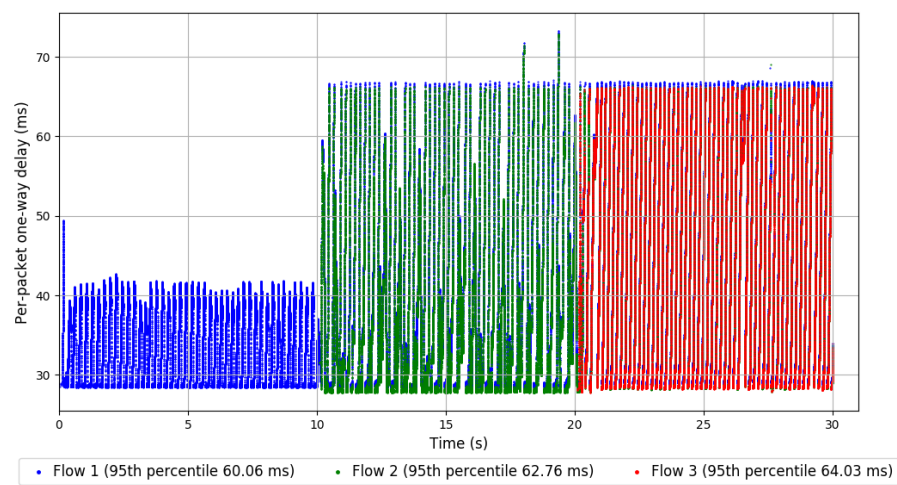
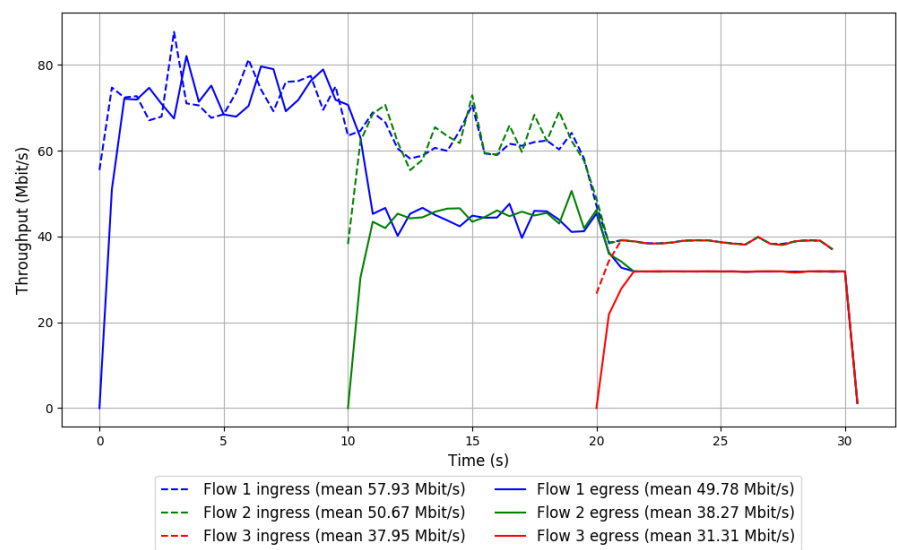


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-18 19:00:46
End at: 2018-06-18 19:01:16
Local clock offset: -4.265 ms
Remote clock offset: -3.393 ms

Below is generated by plot.py at 2018-06-18 20:13:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.67 Mbit/s
95th percentile per-packet one-way delay: 61.921 ms
Loss rate: 17.85%
-- Flow 1:
Average throughput: 49.78 Mbit/s
95th percentile per-packet one-way delay: 60.065 ms
Loss rate: 14.06%
-- Flow 2:
Average throughput: 38.27 Mbit/s
95th percentile per-packet one-way delay: 62.755 ms
Loss rate: 24.48%
-- Flow 3:
Average throughput: 31.31 Mbit/s
95th percentile per-packet one-way delay: 64.032 ms
Loss rate: 17.52%

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

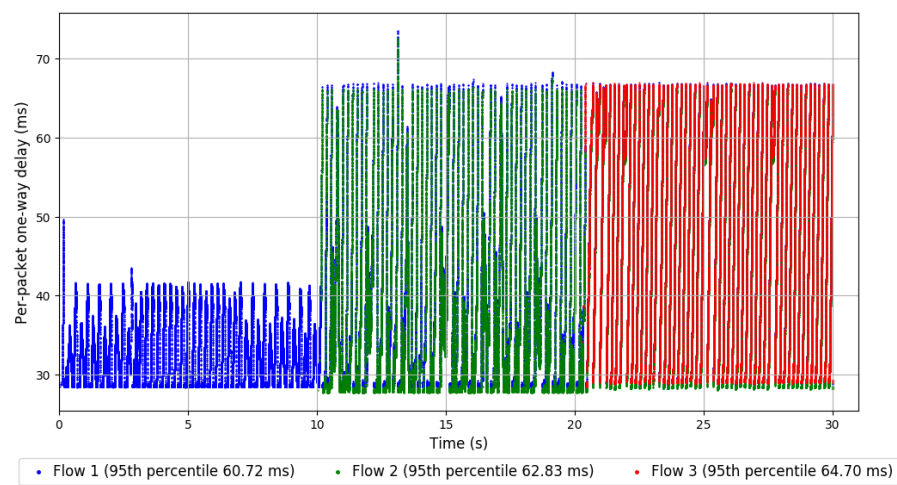
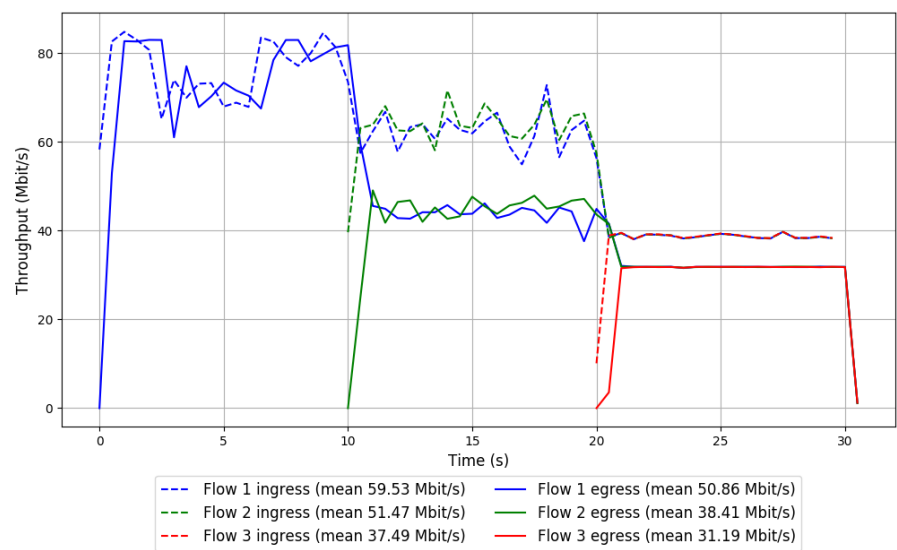


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-18 19:22:31
End at: 2018-06-18 19:23:01
Local clock offset: -2.267 ms
Remote clock offset: -4.065 ms

Below is generated by plot.py at 2018-06-18 20:14:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.61 Mbit/s
95th percentile per-packet one-way delay: 62.426 ms
Loss rate: 18.51%
-- Flow 1:
Average throughput: 50.86 Mbit/s
95th percentile per-packet one-way delay: 60.724 ms
Loss rate: 14.56%
-- Flow 2:
Average throughput: 38.41 Mbit/s
95th percentile per-packet one-way delay: 62.828 ms
Loss rate: 25.37%
-- Flow 3:
Average throughput: 31.19 Mbit/s
95th percentile per-packet one-way delay: 64.704 ms
Loss rate: 18.53%

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

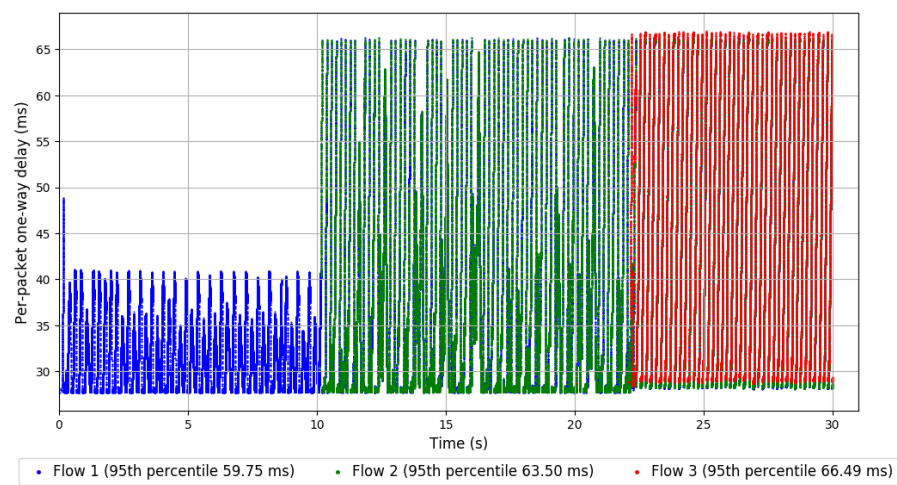
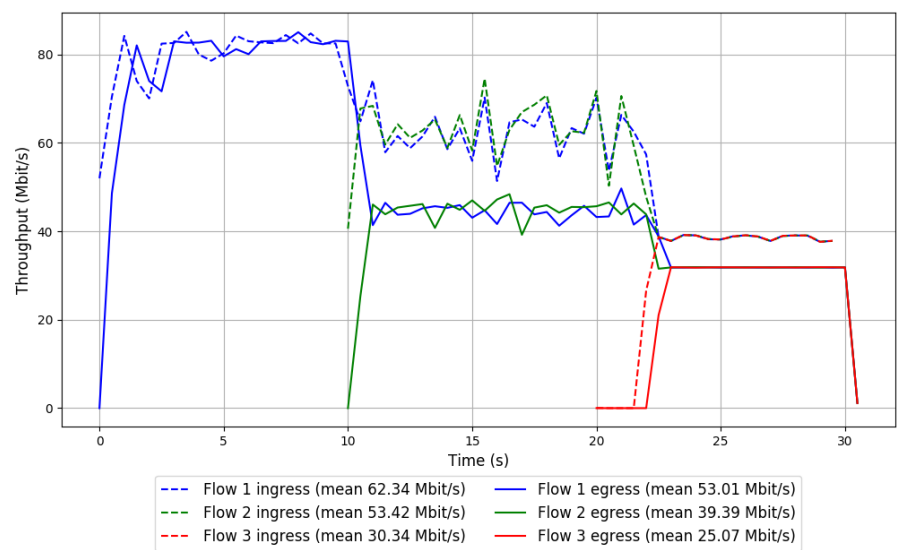


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-18 19:43:56
End at: 2018-06-18 19:44:26
Local clock offset: -2.109 ms
Remote clock offset: -3.014 ms

Below is generated by plot.py at 2018-06-18 20:15:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.58 Mbit/s
95th percentile per-packet one-way delay: 62.656 ms
Loss rate: 18.91%
-- Flow 1:
Average throughput: 53.01 Mbit/s
95th percentile per-packet one-way delay: 59.747 ms
Loss rate: 14.96%
-- Flow 2:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 63.496 ms
Loss rate: 26.26%
-- Flow 3:
Average throughput: 25.07 Mbit/s
95th percentile per-packet one-way delay: 66.490 ms
Loss rate: 17.39%

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

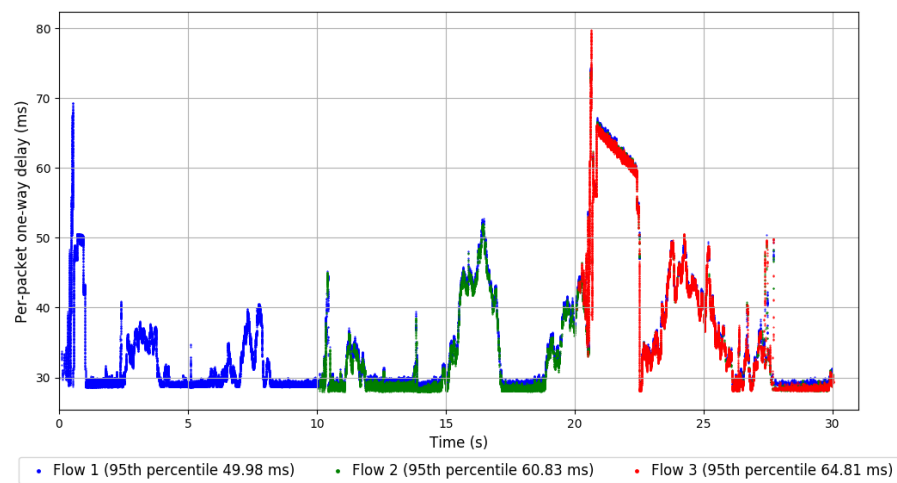
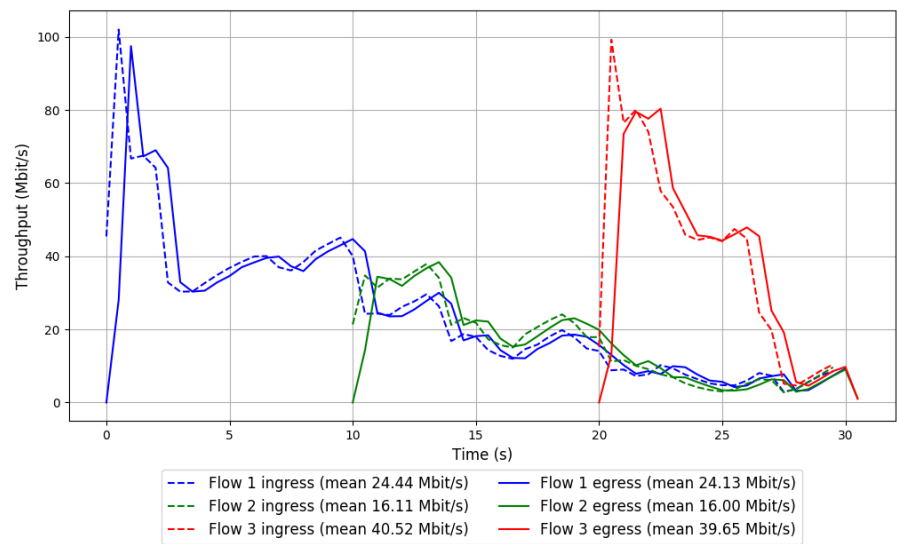


Run 1: Statistics of TCP Vegas

Start at: 2018-06-18 16:37:24
End at: 2018-06-18 16:37:54
Local clock offset: -1.826 ms
Remote clock offset: -2.451 ms

Below is generated by plot.py at 2018-06-18 20:15:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.92 Mbit/s
95th percentile per-packet one-way delay: 63.092 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 24.13 Mbit/s
95th percentile per-packet one-way delay: 49.976 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 16.00 Mbit/s
95th percentile per-packet one-way delay: 60.833 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 39.65 Mbit/s
95th percentile per-packet one-way delay: 64.809 ms
Loss rate: 2.24%

Run 1: Report of TCP Vegas — Data Link

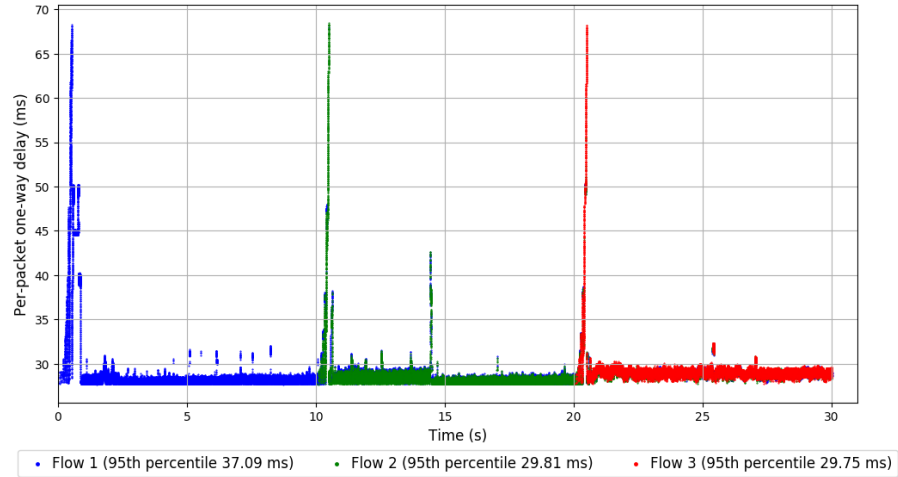
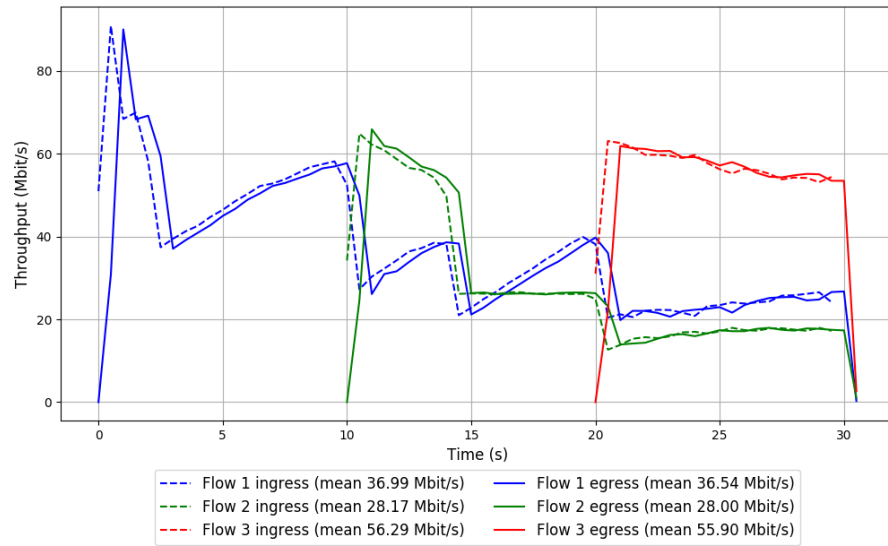


Run 2: Statistics of TCP Vegas

Start at: 2018-06-18 16:58:45
End at: 2018-06-18 16:59:15
Local clock offset: 0.97 ms
Remote clock offset: -2.556 ms

Below is generated by plot.py at 2018-06-18 20:15:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.78 Mbit/s
95th percentile per-packet one-way delay: 30.568 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 36.54 Mbit/s
95th percentile per-packet one-way delay: 37.089 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 28.00 Mbit/s
95th percentile per-packet one-way delay: 29.814 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 55.90 Mbit/s
95th percentile per-packet one-way delay: 29.754 ms
Loss rate: 0.67%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-18 17:20:12

End at: 2018-06-18 17:20:42

Local clock offset: 0.315 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-06-18 20:15:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.24 Mbit/s

95th percentile per-packet one-way delay: 47.568 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 67.01 Mbit/s

95th percentile per-packet one-way delay: 47.026 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 15.52 Mbit/s

95th percentile per-packet one-way delay: 48.508 ms

Loss rate: 0.09%

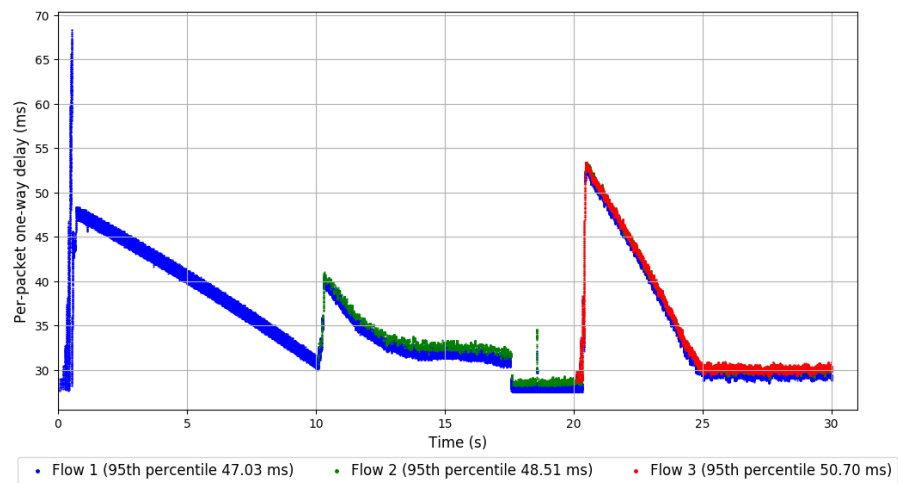
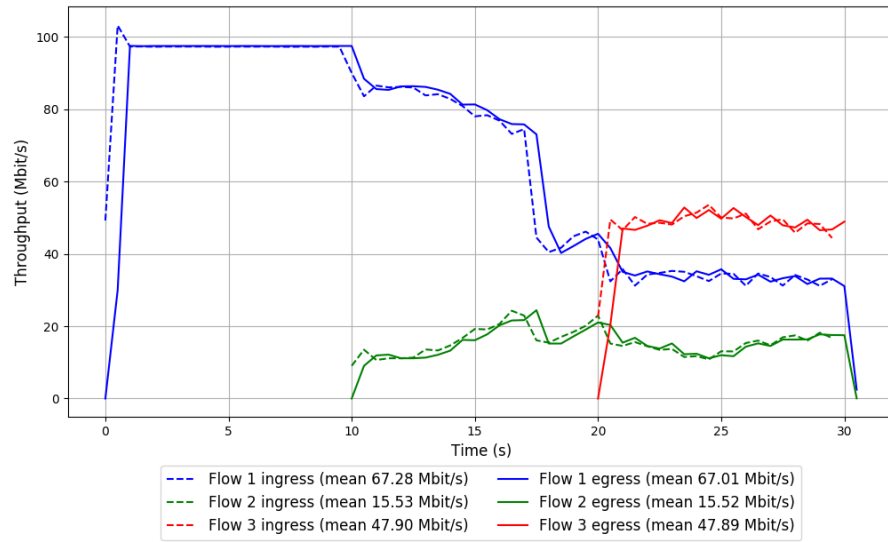
-- Flow 3:

Average throughput: 47.89 Mbit/s

95th percentile per-packet one-way delay: 50.698 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-18 17:41:34

End at: 2018-06-18 17:42:04

Local clock offset: 0.259 ms

Remote clock offset: 1.589 ms

Below is generated by plot.py at 2018-06-18 20:15:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.39 Mbit/s

95th percentile per-packet one-way delay: 34.574 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 32.51 Mbit/s

95th percentile per-packet one-way delay: 44.808 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 42.83 Mbit/s

95th percentile per-packet one-way delay: 30.159 ms

Loss rate: 0.40%

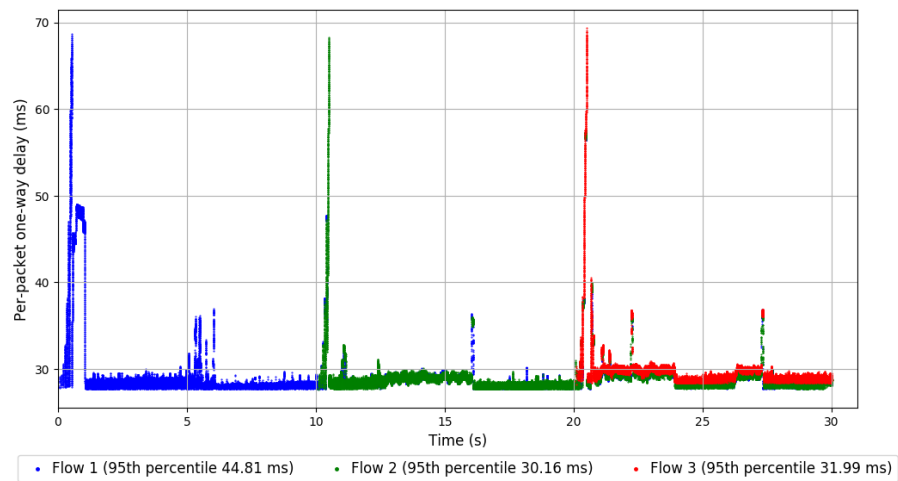
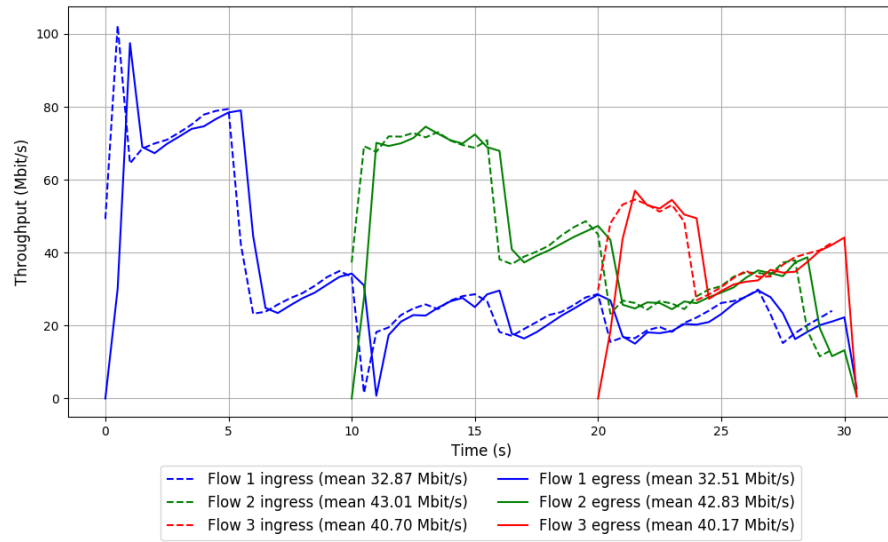
-- Flow 3:

Average throughput: 40.17 Mbit/s

95th percentile per-packet one-way delay: 31.990 ms

Loss rate: 1.30%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-18 18:02:58

End at: 2018-06-18 18:03:28

Local clock offset: 0.382 ms

Remote clock offset: 2.441 ms

Below is generated by plot.py at 2018-06-18 20:15:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.78 Mbit/s

95th percentile per-packet one-way delay: 47.865 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 68.14 Mbit/s

95th percentile per-packet one-way delay: 48.532 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 26.66 Mbit/s

95th percentile per-packet one-way delay: 36.428 ms

Loss rate: 0.00%

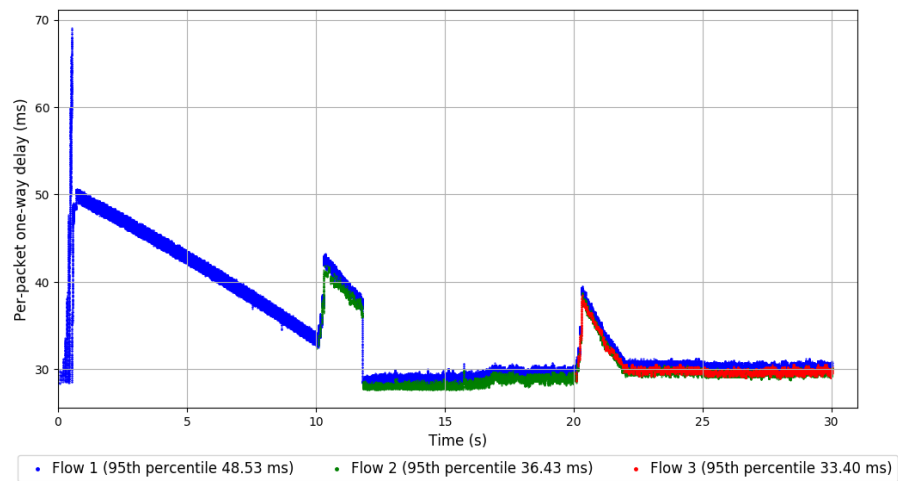
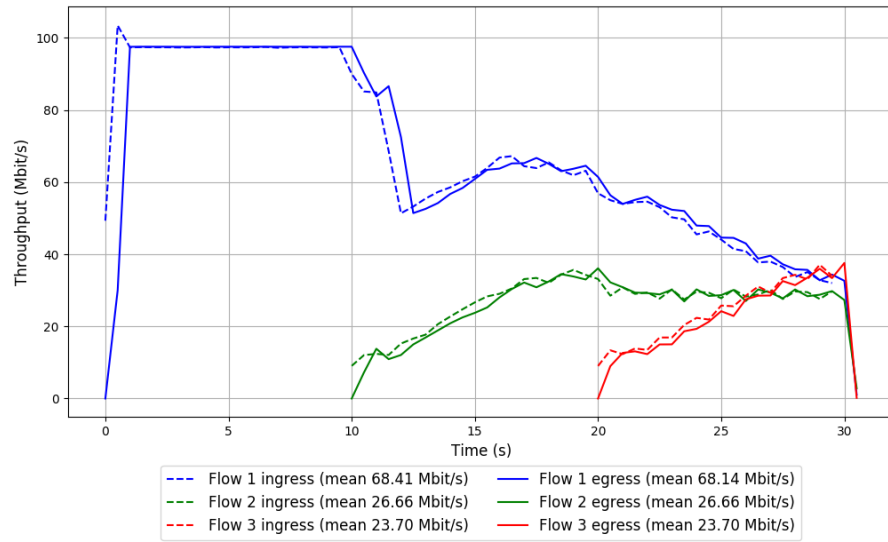
-- Flow 3:

Average throughput: 23.70 Mbit/s

95th percentile per-packet one-way delay: 33.399 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link

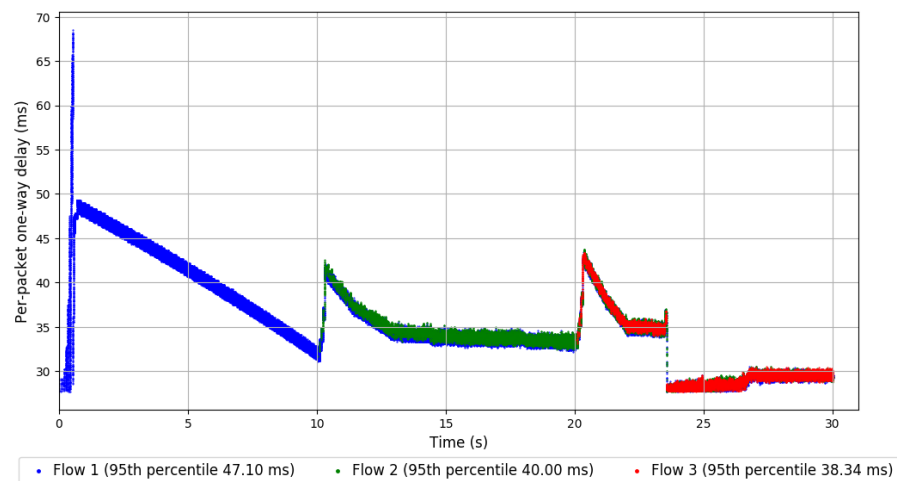
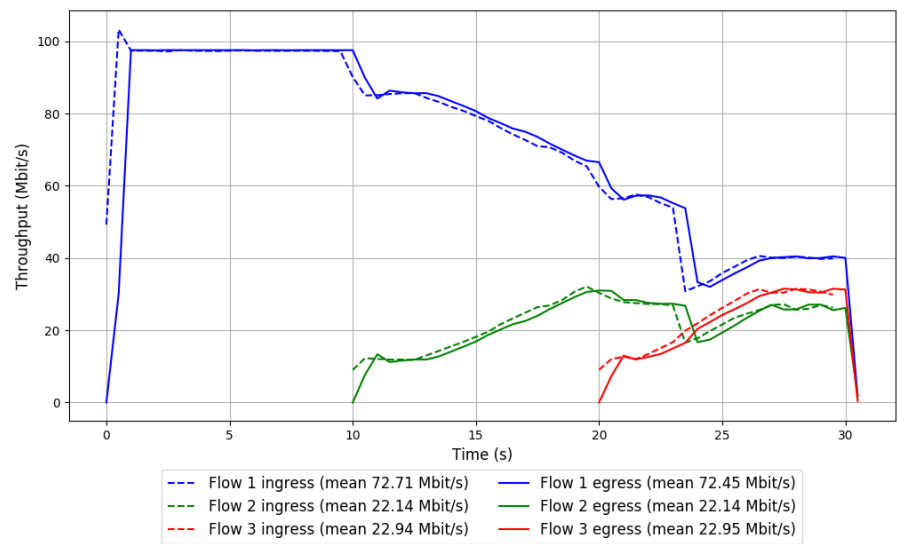


Run 6: Statistics of TCP Vegas

Start at: 2018-06-18 18:24:25
End at: 2018-06-18 18:24:55
Local clock offset: -3.172 ms
Remote clock offset: -1.008 ms

Below is generated by plot.py at 2018-06-18 20:15:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.81 Mbit/s
95th percentile per-packet one-way delay: 46.567 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 72.45 Mbit/s
95th percentile per-packet one-way delay: 47.099 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 22.14 Mbit/s
95th percentile per-packet one-way delay: 40.000 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 22.95 Mbit/s
95th percentile per-packet one-way delay: 38.335 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

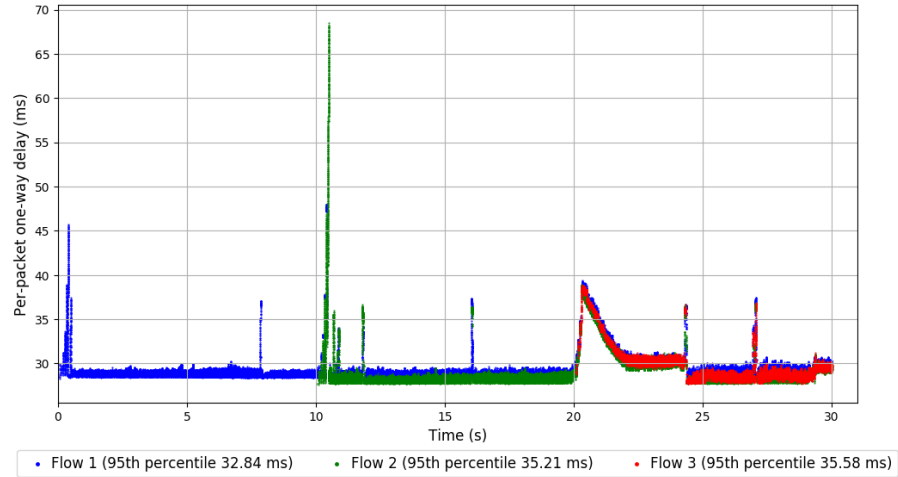
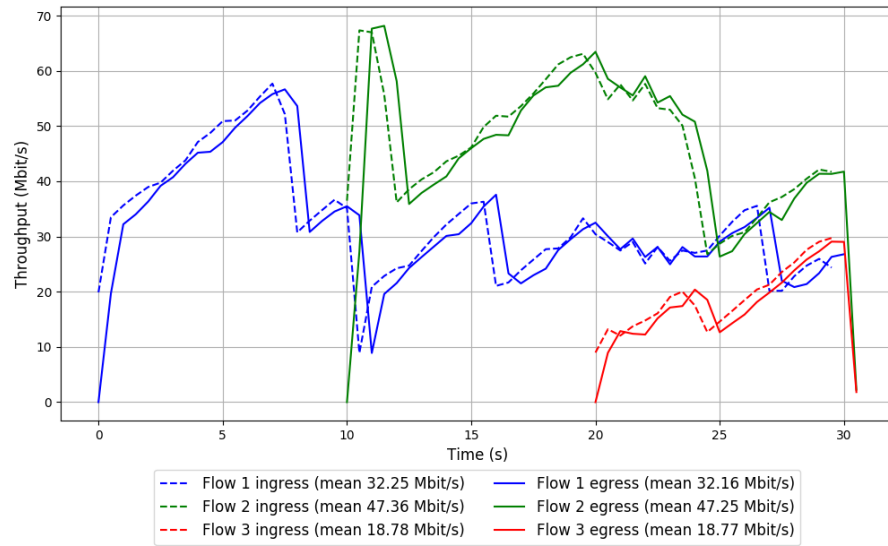


Run 7: Statistics of TCP Vegas

Start at: 2018-06-18 18:45:56
End at: 2018-06-18 18:46:26
Local clock offset: -4.02 ms
Remote clock offset: -3.093 ms

```
# Below is generated by plot.py at 2018-06-18 20:15:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.85 Mbit/s
95th percentile per-packet one-way delay: 34.342 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 32.16 Mbit/s
95th percentile per-packet one-way delay: 32.843 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 47.25 Mbit/s
95th percentile per-packet one-way delay: 35.214 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 18.77 Mbit/s
95th percentile per-packet one-way delay: 35.575 ms
Loss rate: 0.05%
```

Run 7: Report of TCP Vegas — Data Link

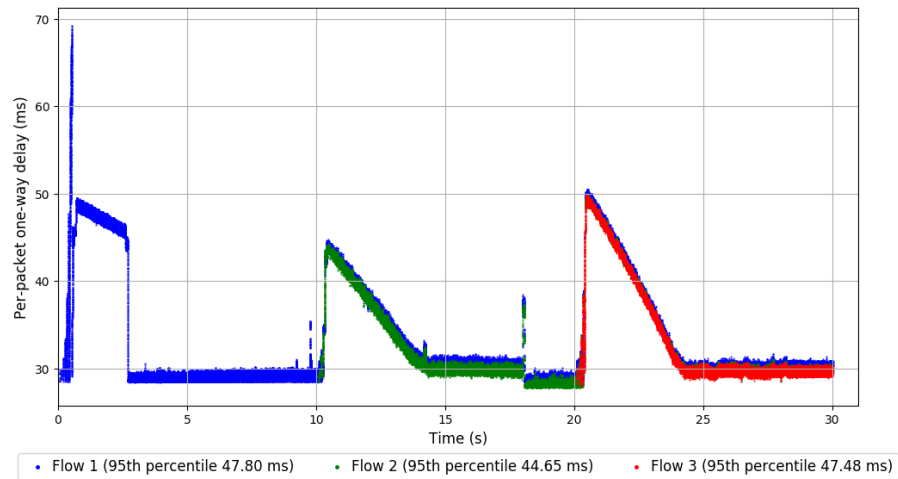
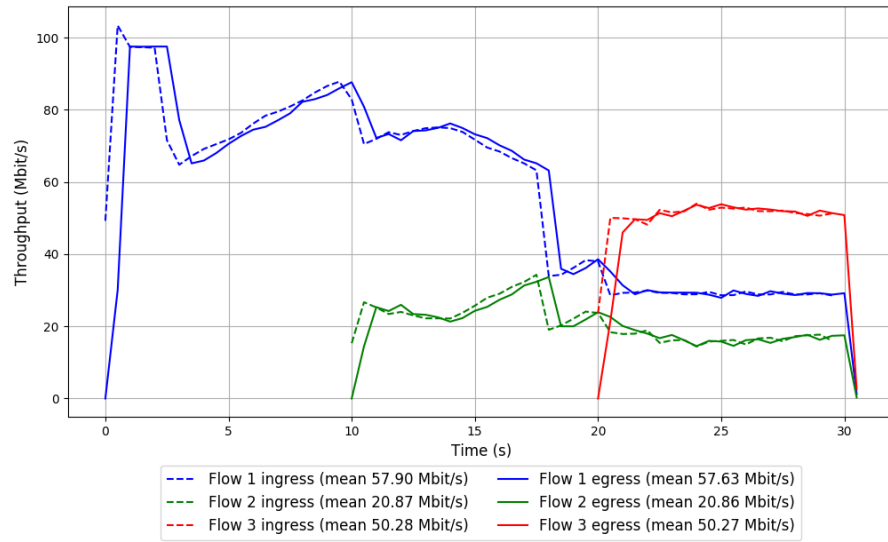


Run 8: Statistics of TCP Vegas

Start at: 2018-06-18 19:07:24
End at: 2018-06-18 19:07:54
Local clock offset: -3.695 ms
Remote clock offset: -3.724 ms

Below is generated by plot.py at 2018-06-18 20:15:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.24 Mbit/s
95th percentile per-packet one-way delay: 47.668 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 57.63 Mbit/s
95th percentile per-packet one-way delay: 47.804 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 20.86 Mbit/s
95th percentile per-packet one-way delay: 44.645 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 47.483 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

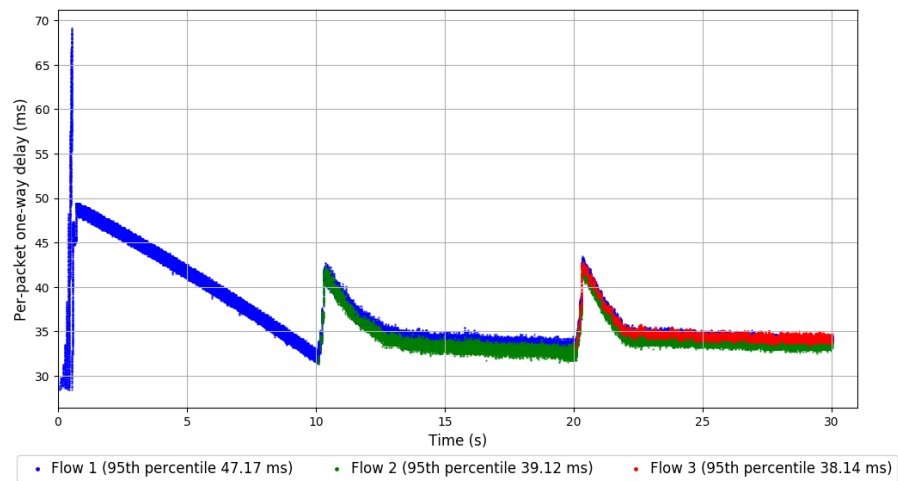
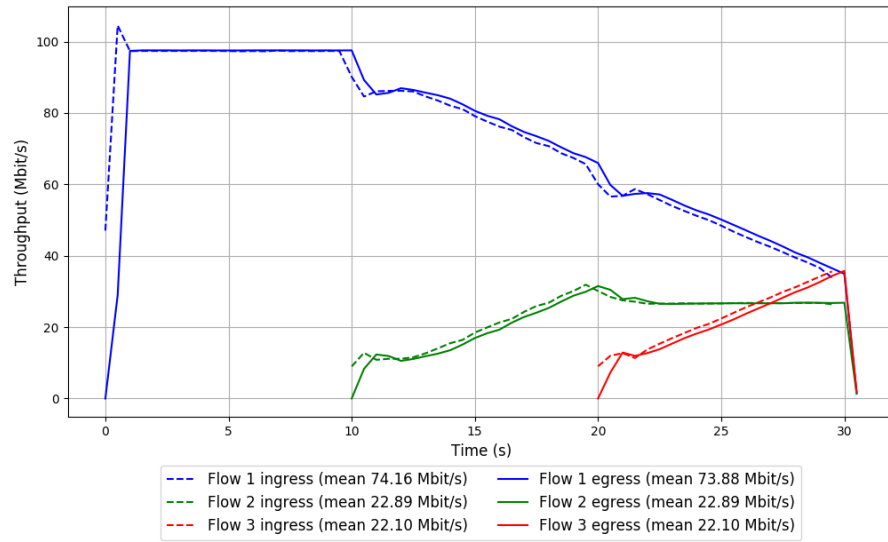


Run 9: Statistics of TCP Vegas

Start at: 2018-06-18 19:29:08
End at: 2018-06-18 19:29:38
Local clock offset: -2.1 ms
Remote clock offset: -3.552 ms

Below is generated by plot.py at 2018-06-18 20:15:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 46.665 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 73.88 Mbit/s
95th percentile per-packet one-way delay: 47.174 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 22.89 Mbit/s
95th percentile per-packet one-way delay: 39.117 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.10 Mbit/s
95th percentile per-packet one-way delay: 38.136 ms
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link

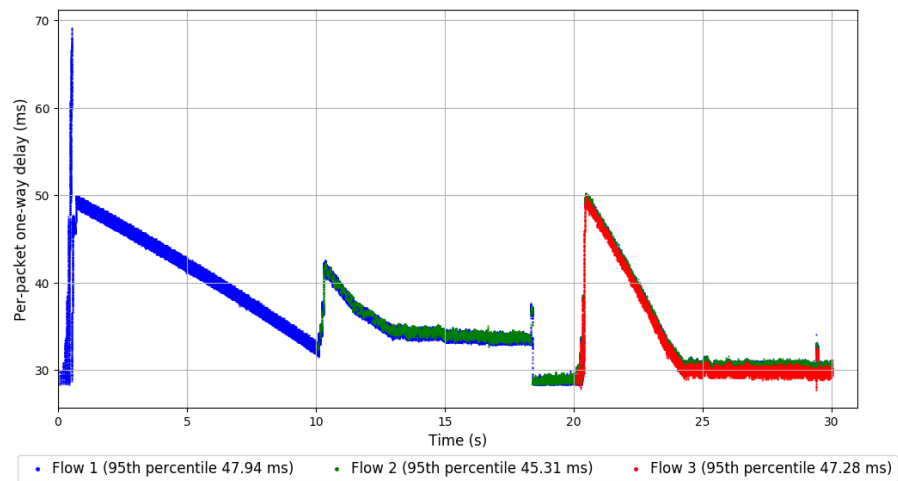
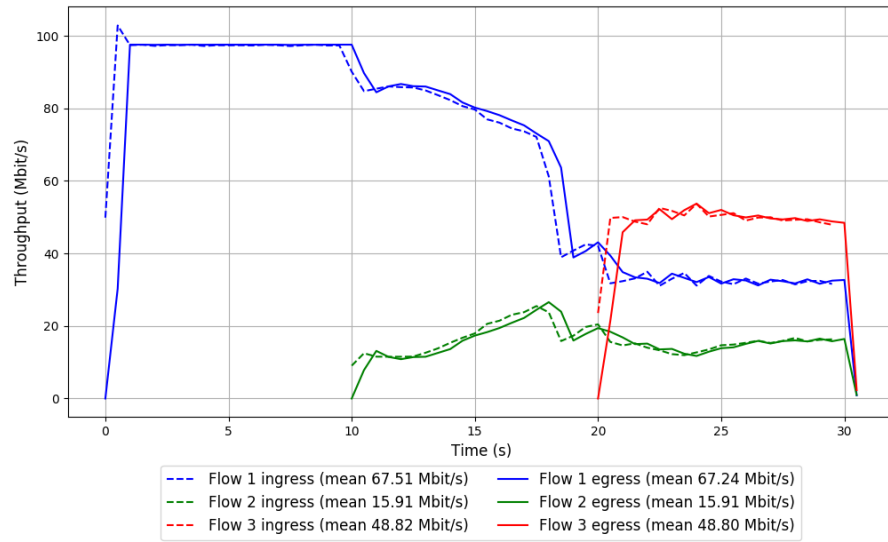


Run 10: Statistics of TCP Vegas

Start at: 2018-06-18 19:50:33
End at: 2018-06-18 19:51:03
Local clock offset: -2.124 ms
Remote clock offset: -2.978 ms

Below is generated by plot.py at 2018-06-18 20:15:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 47.812 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 67.24 Mbit/s
95th percentile per-packet one-way delay: 47.935 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 15.91 Mbit/s
95th percentile per-packet one-way delay: 45.312 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 48.80 Mbit/s
95th percentile per-packet one-way delay: 47.277 ms
Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

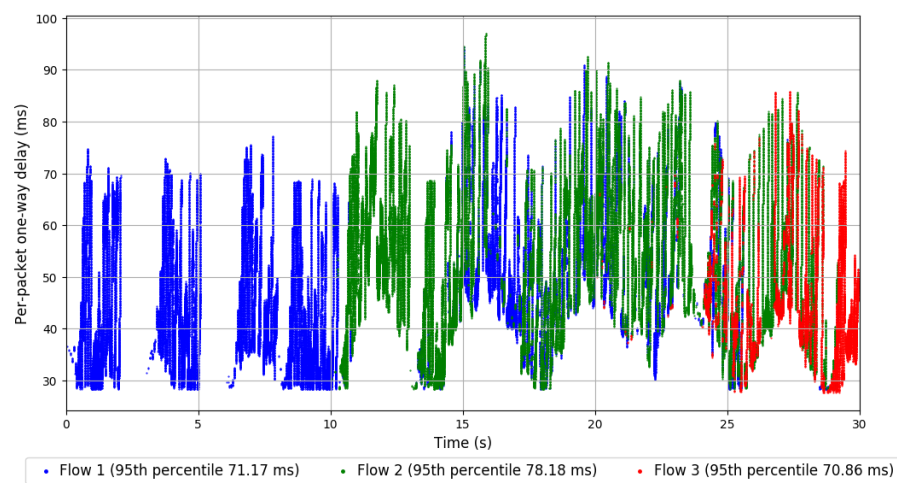
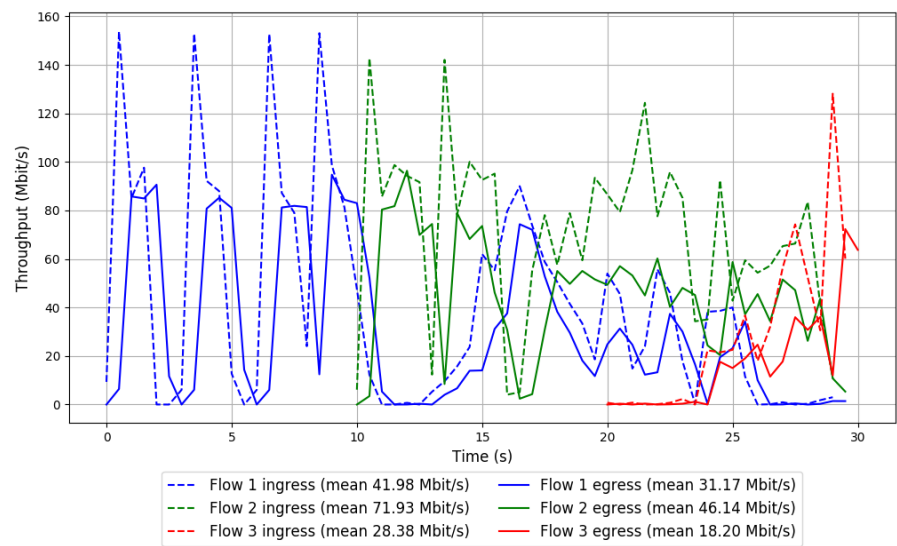


Run 1: Statistics of Verus

Start at: 2018-06-18 16:29:28
End at: 2018-06-18 16:29:58
Local clock offset: -2.943 ms
Remote clock offset: -2.315 ms

Below is generated by plot.py at 2018-06-18 20:15:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.86 Mbit/s
95th percentile per-packet one-way delay: 75.378 ms
Loss rate: 31.73%
-- Flow 1:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 71.168 ms
Loss rate: 25.92%
-- Flow 2:
Average throughput: 46.14 Mbit/s
95th percentile per-packet one-way delay: 78.181 ms
Loss rate: 36.05%
-- Flow 3:
Average throughput: 18.20 Mbit/s
95th percentile per-packet one-way delay: 70.865 ms
Loss rate: 35.87%

Run 1: Report of Verus — Data Link

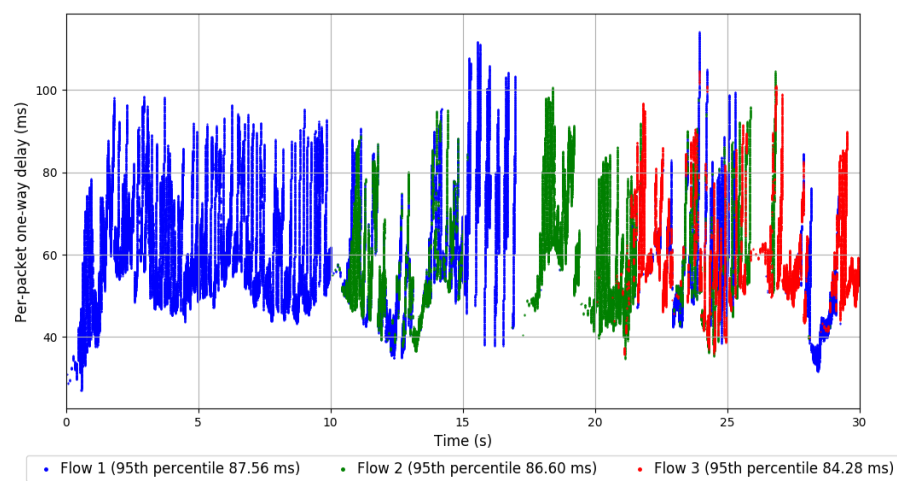
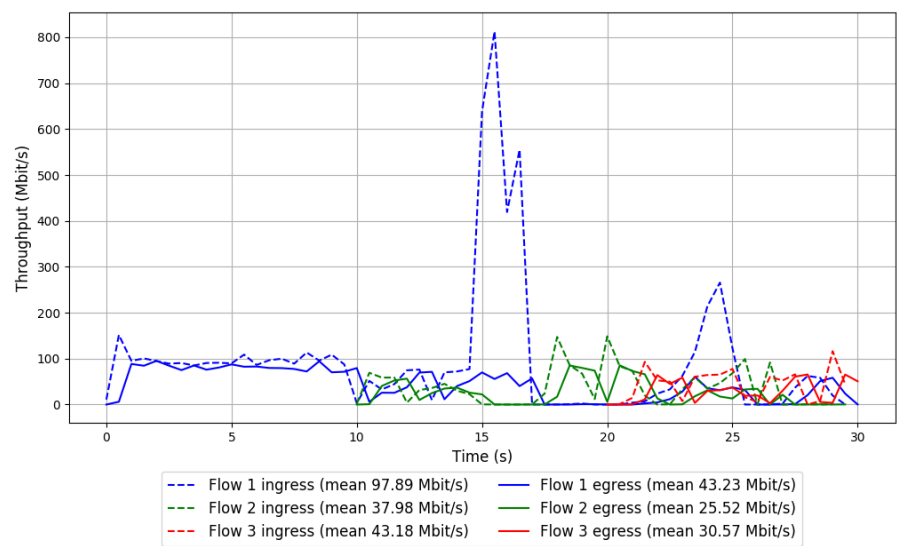


Run 2: Statistics of Verus

Start at: 2018-06-18 16:50:45
End at: 2018-06-18 16:51:15
Local clock offset: 0.378 ms
Remote clock offset: -4.492 ms

Below is generated by plot.py at 2018-06-18 20:15:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.51 Mbit/s
95th percentile per-packet one-way delay: 86.855 ms
Loss rate: 48.96%
-- Flow 1:
Average throughput: 43.23 Mbit/s
95th percentile per-packet one-way delay: 87.558 ms
Loss rate: 55.81%
-- Flow 2:
Average throughput: 25.52 Mbit/s
95th percentile per-packet one-way delay: 86.604 ms
Loss rate: 33.10%
-- Flow 3:
Average throughput: 30.57 Mbit/s
95th percentile per-packet one-way delay: 84.283 ms
Loss rate: 29.18%

Run 2: Report of Verus — Data Link

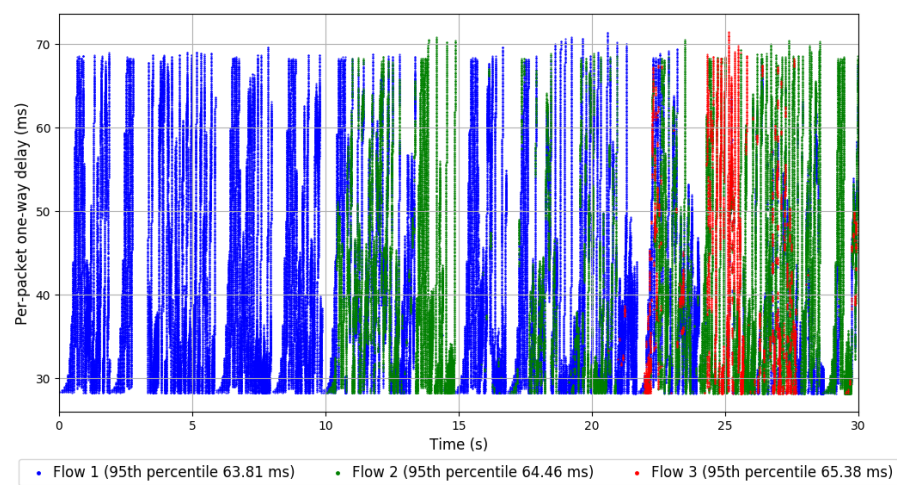
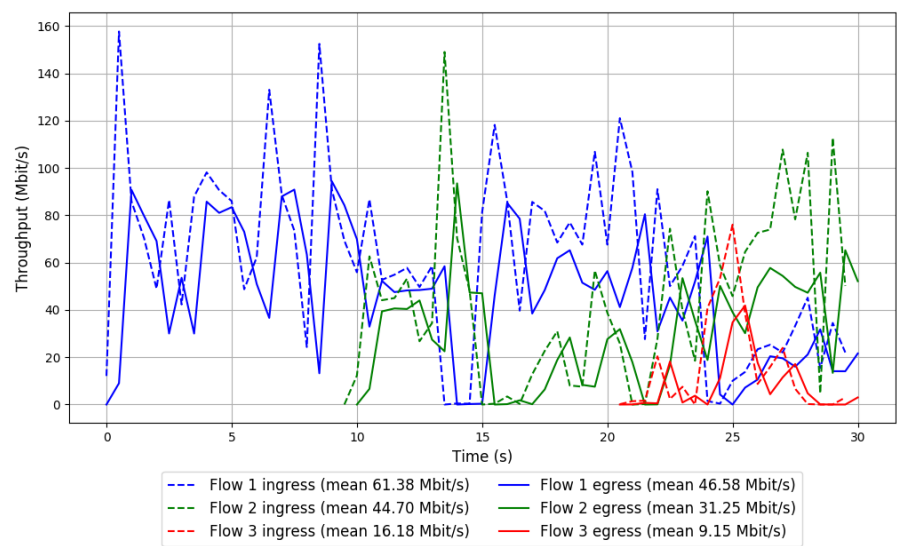


Run 3: Statistics of Verus

Start at: 2018-06-18 17:12:12
End at: 2018-06-18 17:12:42
Local clock offset: 0.562 ms
Remote clock offset: -0.991 ms

Below is generated by plot.py at 2018-06-18 20:15:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.23 Mbit/s
95th percentile per-packet one-way delay: 64.083 ms
Loss rate: 26.87%
-- Flow 1:
Average throughput: 46.58 Mbit/s
95th percentile per-packet one-way delay: 63.808 ms
Loss rate: 24.03%
-- Flow 2:
Average throughput: 31.25 Mbit/s
95th percentile per-packet one-way delay: 64.463 ms
Loss rate: 29.95%
-- Flow 3:
Average throughput: 9.15 Mbit/s
95th percentile per-packet one-way delay: 65.380 ms
Loss rate: 43.37%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-18 17:33:37

End at: 2018-06-18 17:34:07

Local clock offset: 0.013 ms

Remote clock offset: 1.046 ms

Below is generated by plot.py at 2018-06-18 20:16:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.59 Mbit/s

95th percentile per-packet one-way delay: 65.718 ms

Loss rate: 45.07%

-- Flow 1:

Average throughput: 31.93 Mbit/s

95th percentile per-packet one-way delay: 64.576 ms

Loss rate: 32.61%

-- Flow 2:

Average throughput: 41.42 Mbit/s

95th percentile per-packet one-way delay: 64.396 ms

Loss rate: 25.81%

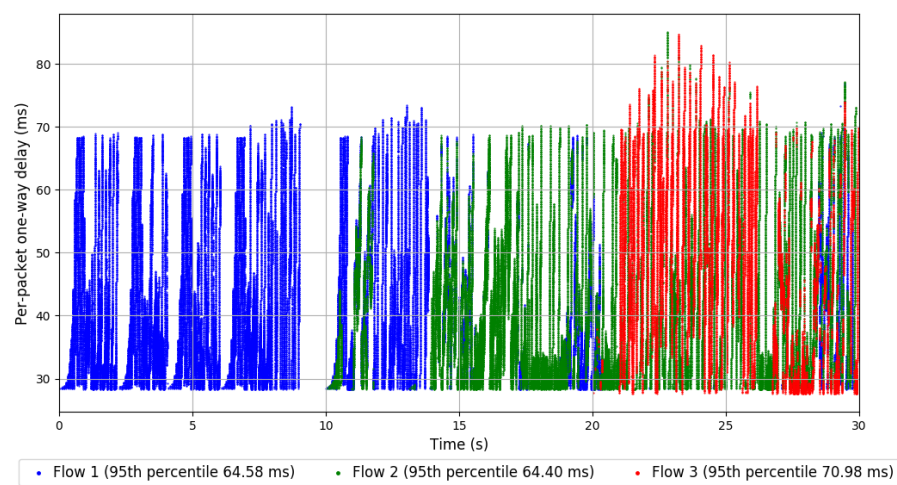
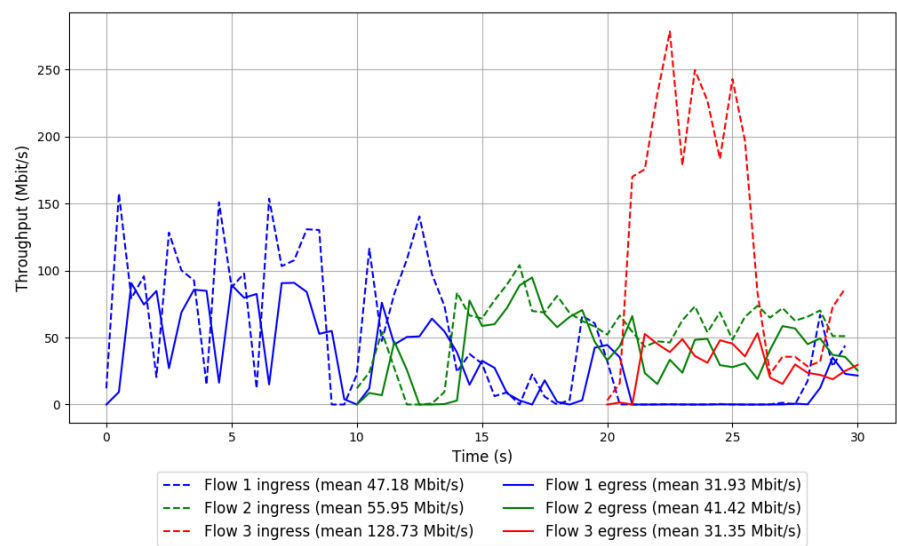
-- Flow 3:

Average throughput: 31.35 Mbit/s

95th percentile per-packet one-way delay: 70.985 ms

Loss rate: 75.59%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-18 17:55:01

End at: 2018-06-18 17:55:31

Local clock offset: 0.346 ms

Remote clock offset: 2.143 ms

Below is generated by plot.py at 2018-06-18 20:16:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.57 Mbit/s

95th percentile per-packet one-way delay: 64.049 ms

Loss rate: 41.90%

-- Flow 1:

Average throughput: 31.61 Mbit/s

95th percentile per-packet one-way delay: 63.650 ms

Loss rate: 44.00%

-- Flow 2:

Average throughput: 30.91 Mbit/s

95th percentile per-packet one-way delay: 64.535 ms

Loss rate: 41.78%

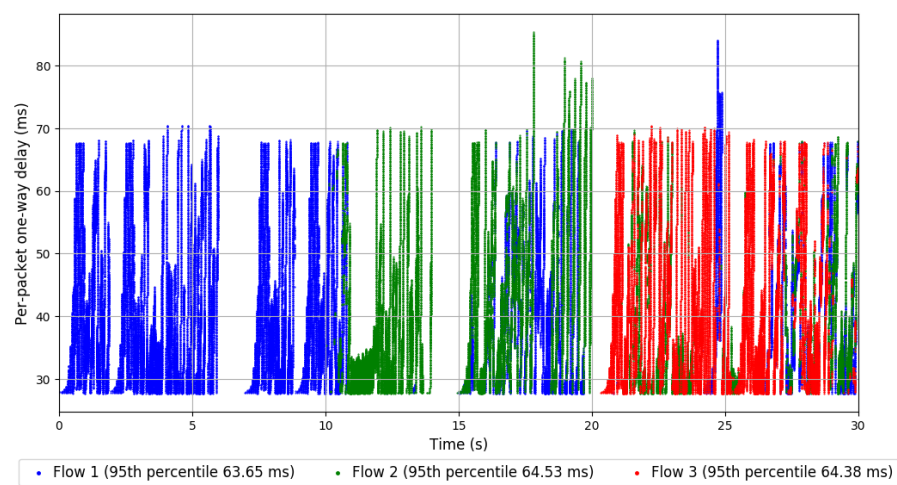
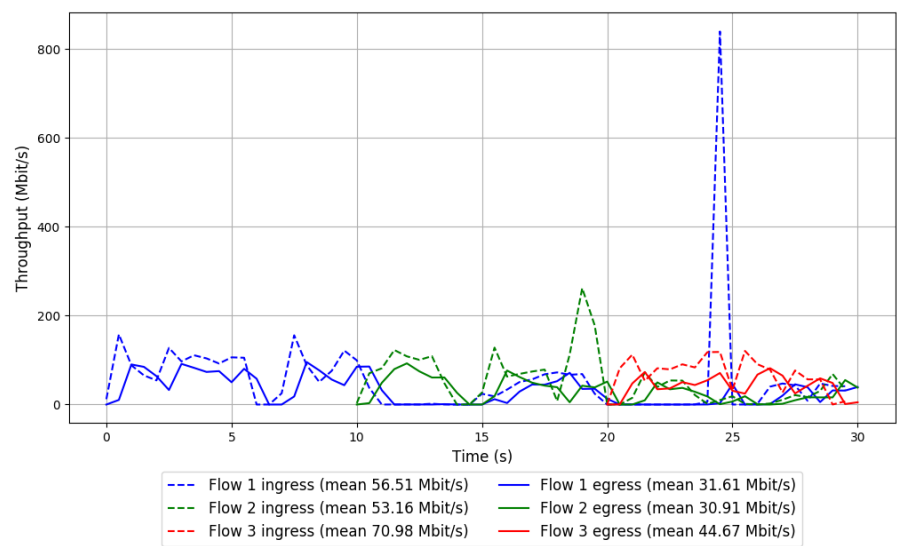
-- Flow 3:

Average throughput: 44.67 Mbit/s

95th percentile per-packet one-way delay: 64.379 ms

Loss rate: 36.88%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-18 18:16:26

End at: 2018-06-18 18:16:56

Local clock offset: -2.391 ms

Remote clock offset: 2.181 ms

Below is generated by plot.py at 2018-06-18 20:16:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.40 Mbit/s

95th percentile per-packet one-way delay: 65.002 ms

Loss rate: 39.02%

-- Flow 1:

Average throughput: 37.44 Mbit/s

95th percentile per-packet one-way delay: 65.797 ms

Loss rate: 44.31%

-- Flow 2:

Average throughput: 18.15 Mbit/s

95th percentile per-packet one-way delay: 61.953 ms

Loss rate: 27.79%

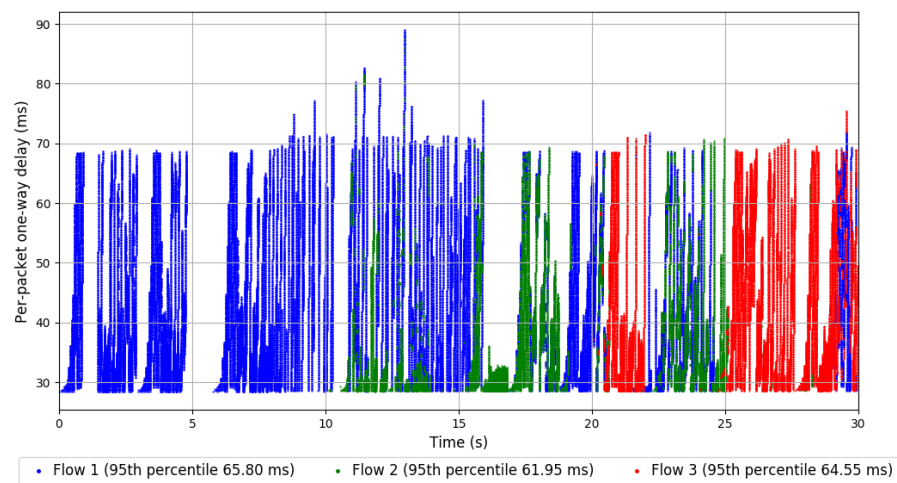
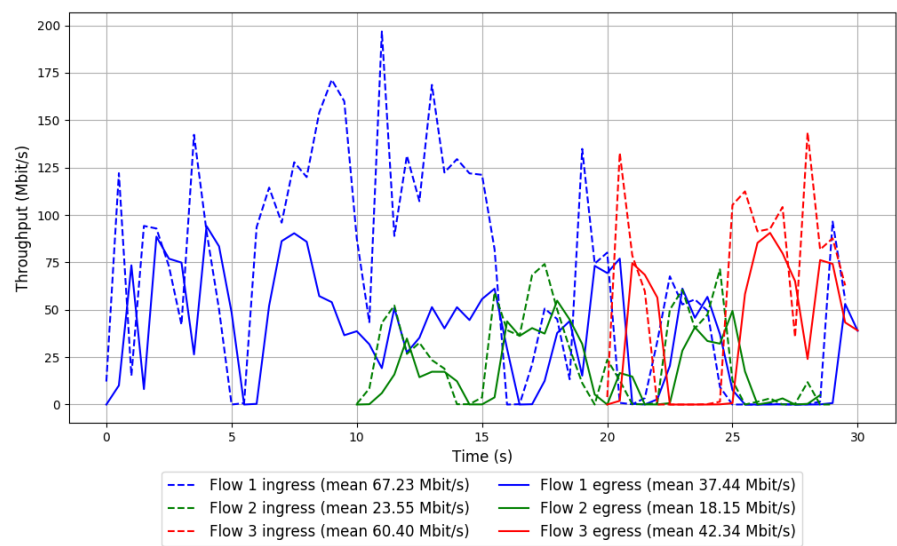
-- Flow 3:

Average throughput: 42.34 Mbit/s

95th percentile per-packet one-way delay: 64.550 ms

Loss rate: 29.82%

Run 6: Report of Verus — Data Link

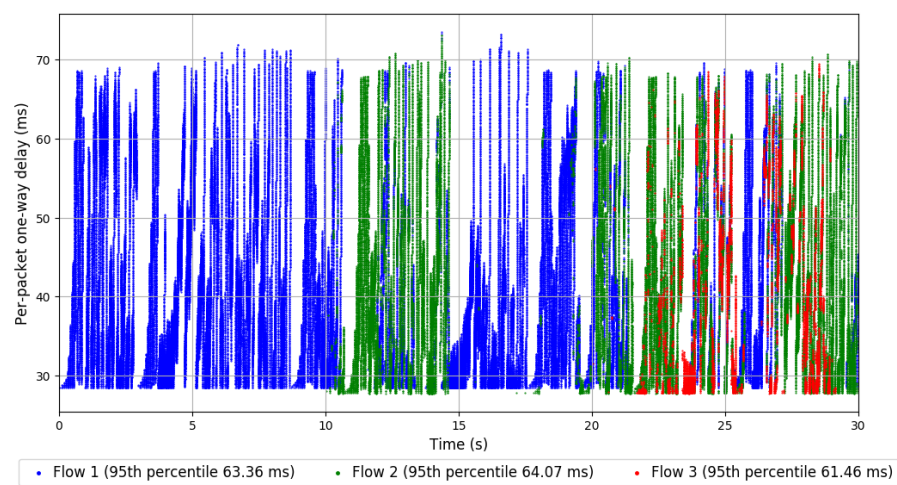
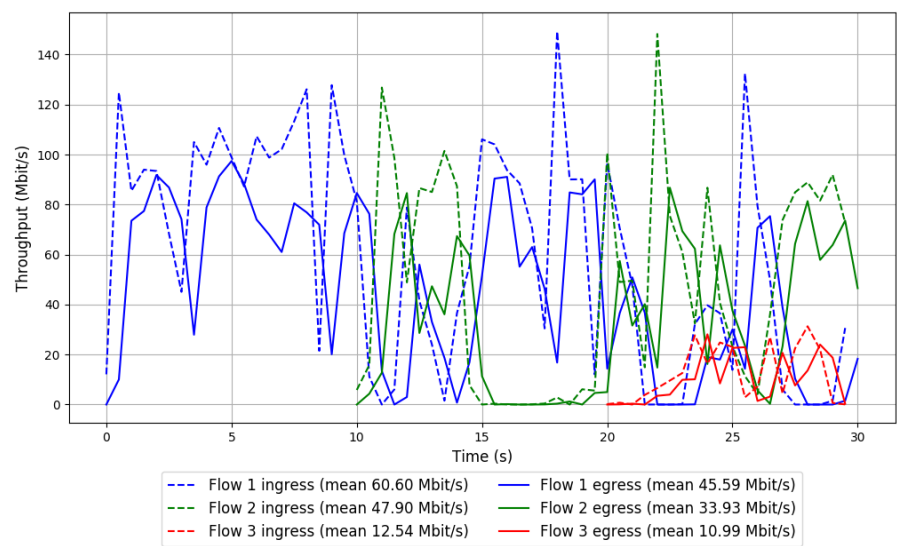


Run 7: Statistics of Verus

Start at: 2018-06-18 18:37:56
End at: 2018-06-18 18:38:26
Local clock offset: -3.708 ms
Remote clock offset: -2.548 ms

Below is generated by plot.py at 2018-06-18 20:16:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.50 Mbit/s
95th percentile per-packet one-way delay: 63.536 ms
Loss rate: 25.89%
-- Flow 1:
Average throughput: 45.59 Mbit/s
95th percentile per-packet one-way delay: 63.357 ms
Loss rate: 24.72%
-- Flow 2:
Average throughput: 33.93 Mbit/s
95th percentile per-packet one-way delay: 64.066 ms
Loss rate: 29.10%
-- Flow 3:
Average throughput: 10.99 Mbit/s
95th percentile per-packet one-way delay: 61.458 ms
Loss rate: 18.02%

Run 7: Report of Verus — Data Link

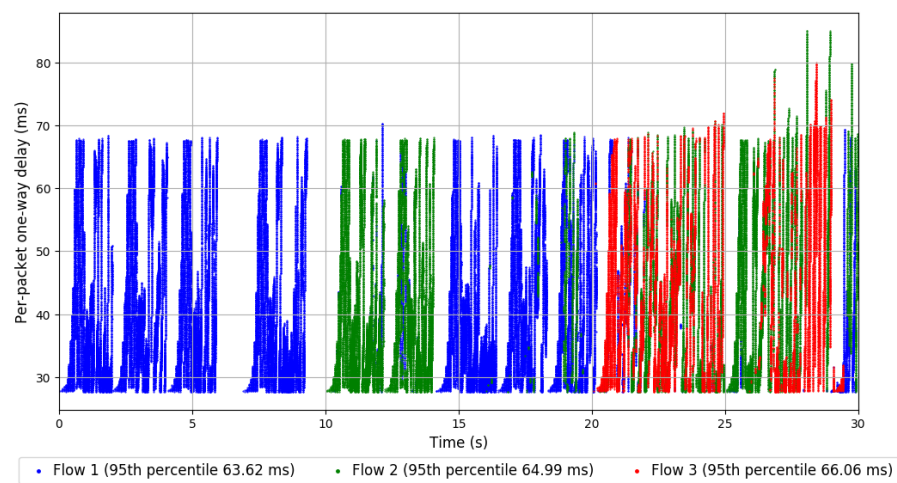
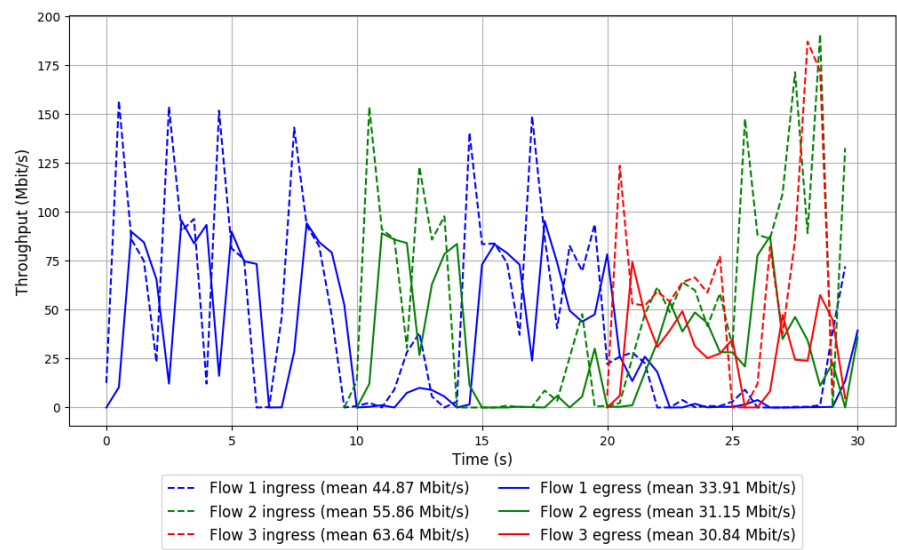


Run 8: Statistics of Verus

Start at: 2018-06-18 18:59:26
End at: 2018-06-18 18:59:56
Local clock offset: -4.224 ms
Remote clock offset: -3.404 ms

Below is generated by plot.py at 2018-06-18 20:16:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.30 Mbit/s
95th percentile per-packet one-way delay: 64.408 ms
Loss rate: 36.97%
-- Flow 1:
Average throughput: 33.91 Mbit/s
95th percentile per-packet one-way delay: 63.625 ms
Loss rate: 24.38%
-- Flow 2:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 64.992 ms
Loss rate: 44.18%
-- Flow 3:
Average throughput: 30.84 Mbit/s
95th percentile per-packet one-way delay: 66.059 ms
Loss rate: 51.81%

Run 8: Report of Verus — Data Link

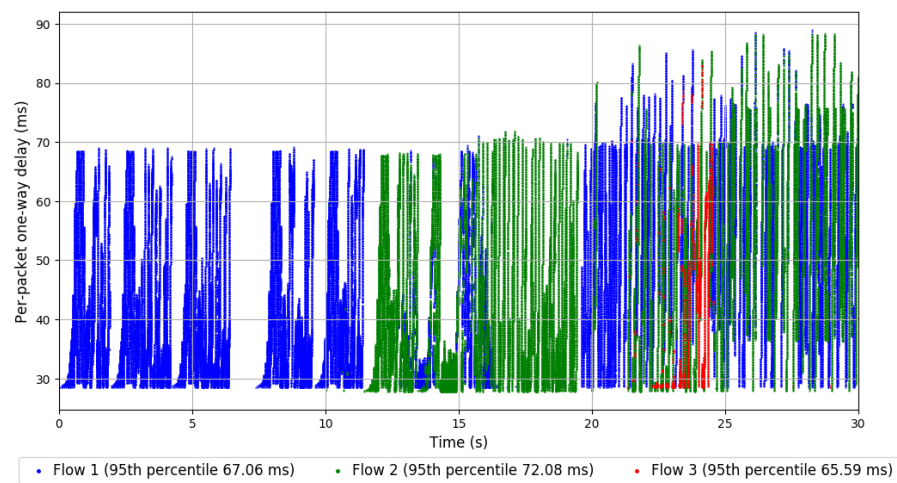
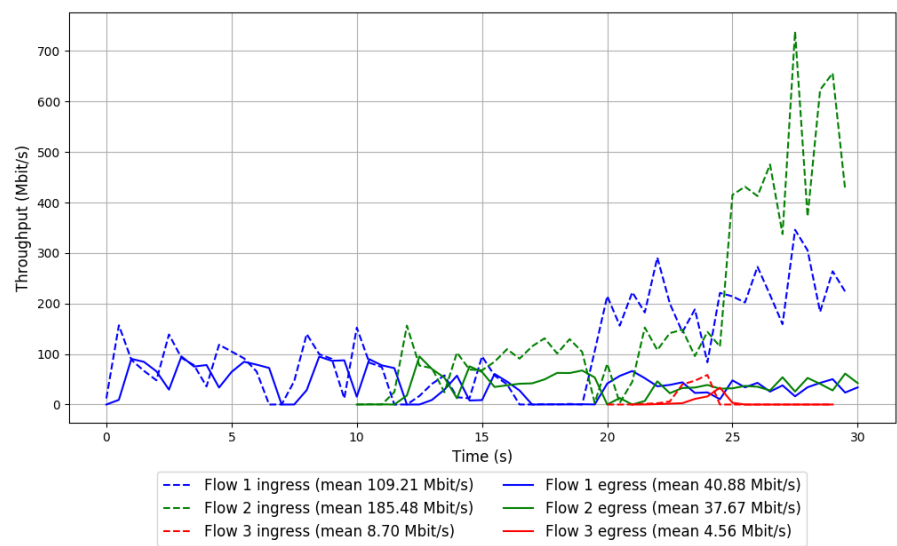


Run 9: Statistics of Verus

Start at: 2018-06-18 19:21:08
End at: 2018-06-18 19:21:38
Local clock offset: -2.318 ms
Remote clock offset: -3.932 ms

Below is generated by plot.py at 2018-06-18 20:17:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.06 Mbit/s
95th percentile per-packet one-way delay: 68.517 ms
Loss rate: 71.44%
-- Flow 1:
Average throughput: 40.88 Mbit/s
95th percentile per-packet one-way delay: 67.057 ms
Loss rate: 62.54%
-- Flow 2:
Average throughput: 37.67 Mbit/s
95th percentile per-packet one-way delay: 72.084 ms
Loss rate: 79.64%
-- Flow 3:
Average throughput: 4.56 Mbit/s
95th percentile per-packet one-way delay: 65.593 ms
Loss rate: 55.46%

Run 9: Report of Verus — Data Link

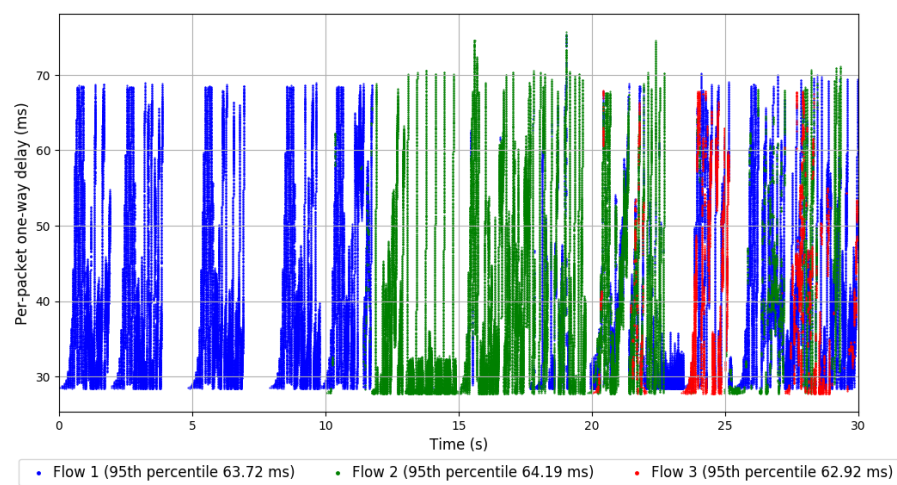
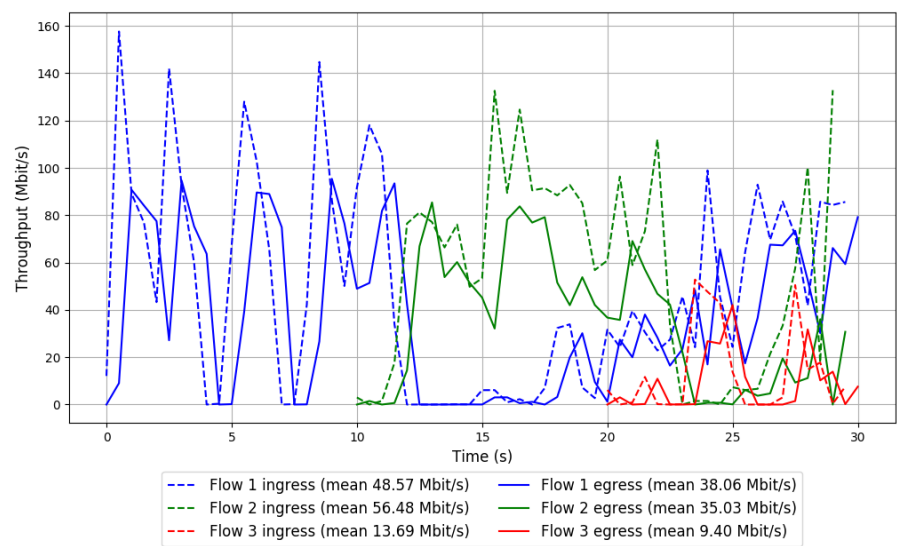


Run 10: Statistics of Verus

Start at: 2018-06-18 19:42:36
End at: 2018-06-18 19:43:06
Local clock offset: -2.184 ms
Remote clock offset: -3.052 ms

Below is generated by plot.py at 2018-06-18 20:17:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.73 Mbit/s
95th percentile per-packet one-way delay: 63.790 ms
Loss rate: 28.69%
-- Flow 1:
Average throughput: 38.06 Mbit/s
95th percentile per-packet one-way delay: 63.716 ms
Loss rate: 21.58%
-- Flow 2:
Average throughput: 35.03 Mbit/s
95th percentile per-packet one-way delay: 64.193 ms
Loss rate: 37.87%
-- Flow 3:
Average throughput: 9.40 Mbit/s
95th percentile per-packet one-way delay: 62.922 ms
Loss rate: 31.21%

Run 10: Report of Verus — Data Link

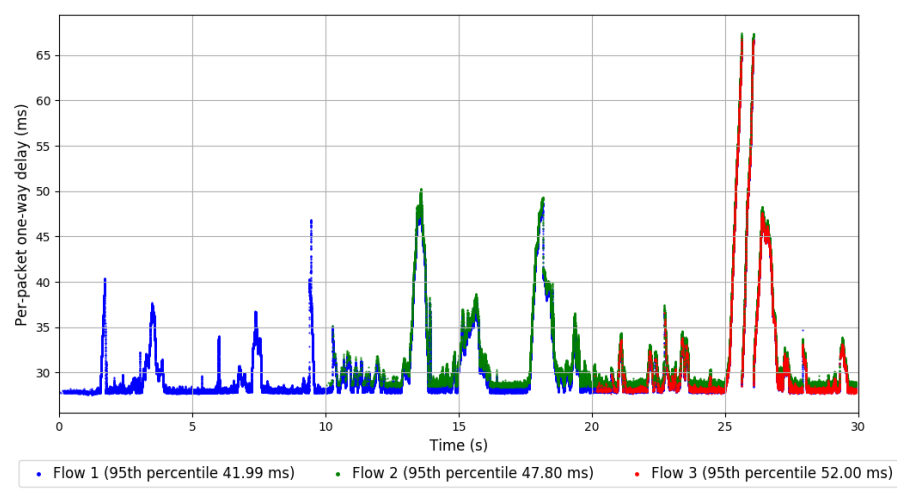
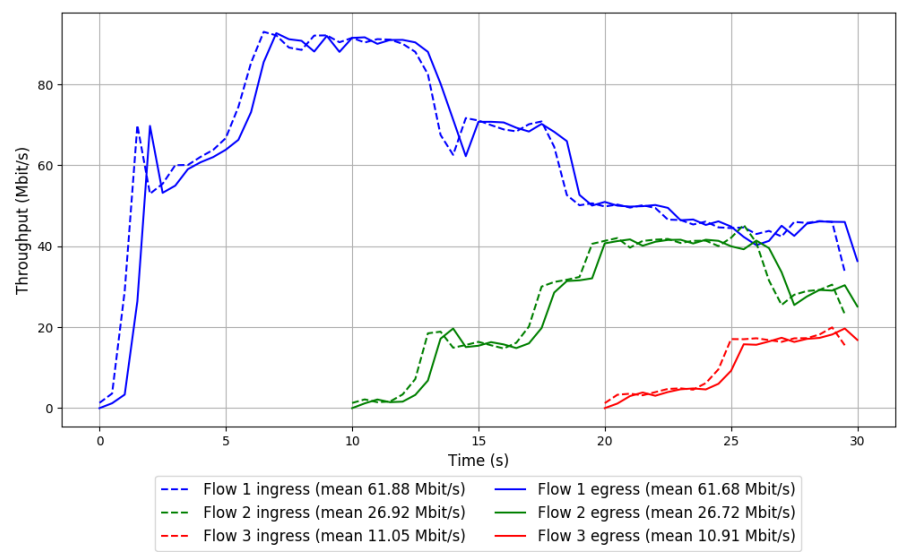


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-18 16:24:08
End at: 2018-06-18 16:24:38
Local clock offset: -2.907 ms
Remote clock offset: -2.319 ms

Below is generated by plot.py at 2018-06-18 20:17:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.05 Mbit/s
95th percentile per-packet one-way delay: 44.894 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 61.68 Mbit/s
95th percentile per-packet one-way delay: 41.988 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 26.72 Mbit/s
95th percentile per-packet one-way delay: 47.802 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 10.91 Mbit/s
95th percentile per-packet one-way delay: 52.003 ms
Loss rate: 1.25%

Run 1: Report of PCC-Vivace — Data Link

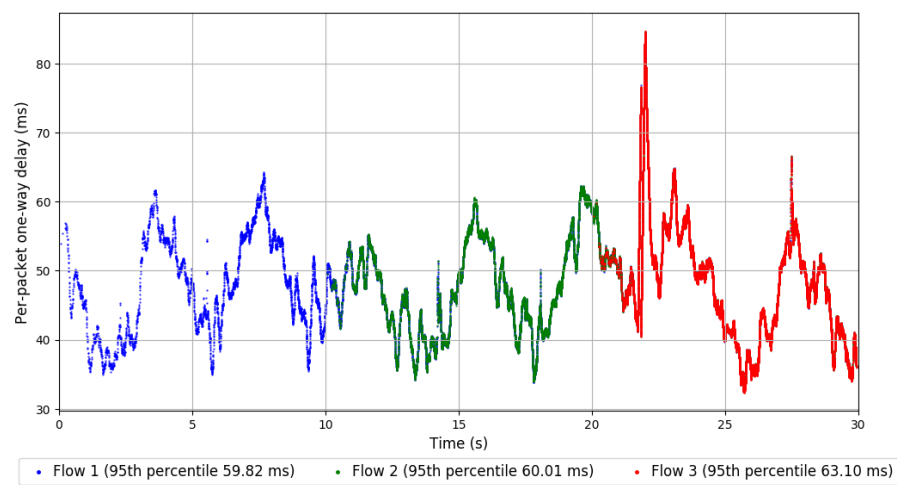
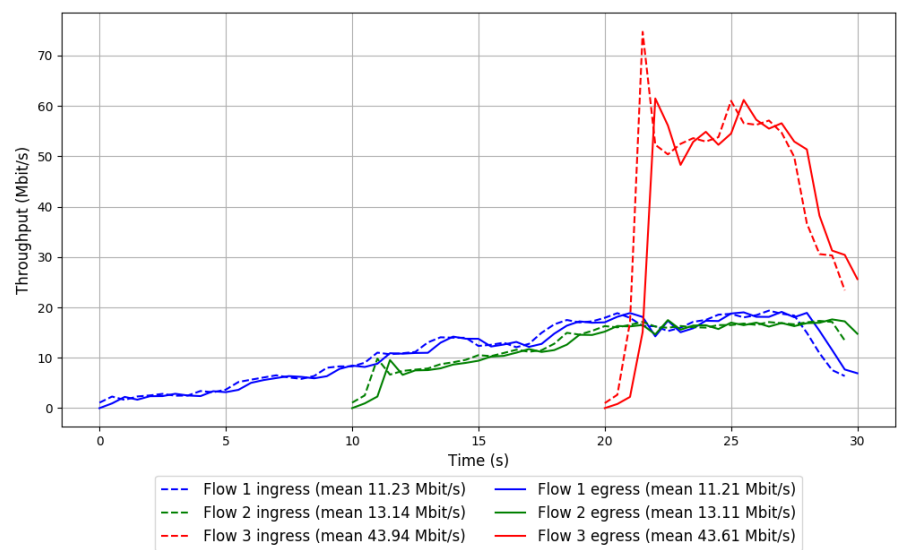


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-18 16:45:24
End at: 2018-06-18 16:45:54
Local clock offset: -0.139 ms
Remote clock offset: -6.868 ms

Below is generated by plot.py at 2018-06-18 20:17:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.30 Mbit/s
95th percentile per-packet one-way delay: 60.519 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 11.21 Mbit/s
95th percentile per-packet one-way delay: 59.818 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 60.007 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 43.61 Mbit/s
95th percentile per-packet one-way delay: 63.105 ms
Loss rate: 0.99%

Run 2: Report of PCC-Vivace — Data Link

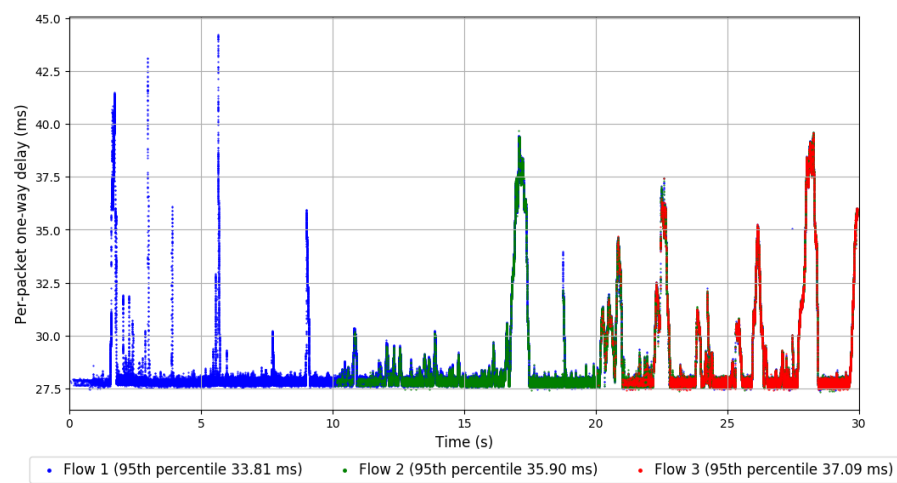
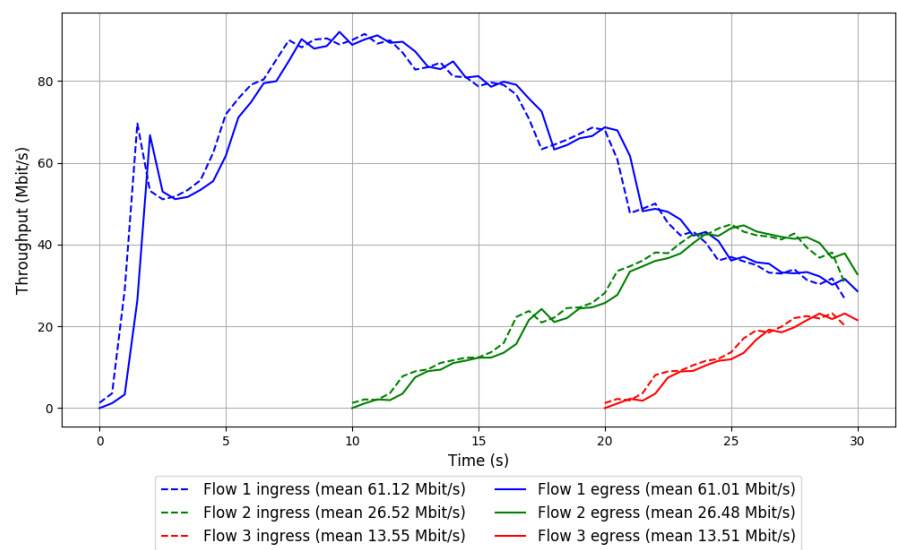


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-18 17:06:51
End at: 2018-06-18 17:07:21
Local clock offset: 0.794 ms
Remote clock offset: -2.247 ms

Below is generated by plot.py at 2018-06-18 20:17:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.09 Mbit/s
95th percentile per-packet one-way delay: 34.824 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 61.01 Mbit/s
95th percentile per-packet one-way delay: 33.811 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 26.48 Mbit/s
95th percentile per-packet one-way delay: 35.903 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 13.51 Mbit/s
95th percentile per-packet one-way delay: 37.095 ms
Loss rate: 0.16%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-18 17:28:16

End at: 2018-06-18 17:28:46

Local clock offset: 0.145 ms

Remote clock offset: 0.773 ms

Below is generated by plot.py at 2018-06-18 20:17:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.22 Mbit/s

95th percentile per-packet one-way delay: 36.966 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 62.74 Mbit/s

95th percentile per-packet one-way delay: 36.812 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 25.04 Mbit/s

95th percentile per-packet one-way delay: 36.885 ms

Loss rate: 0.03%

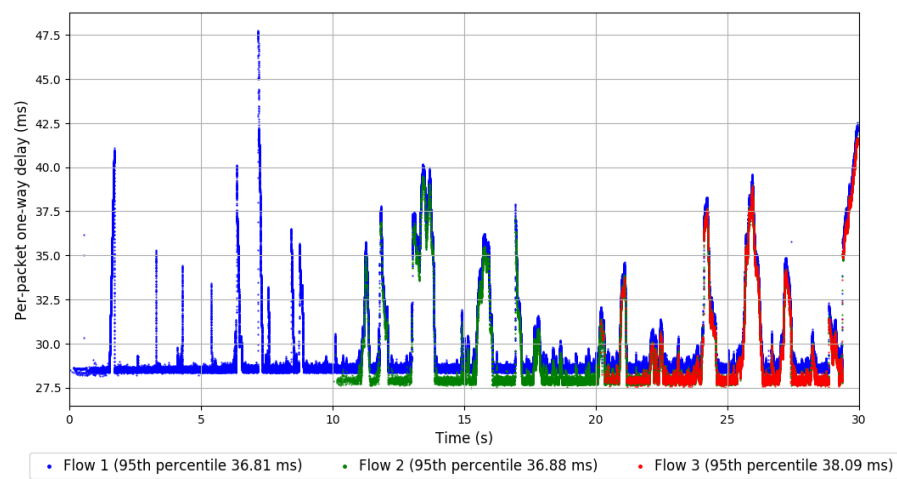
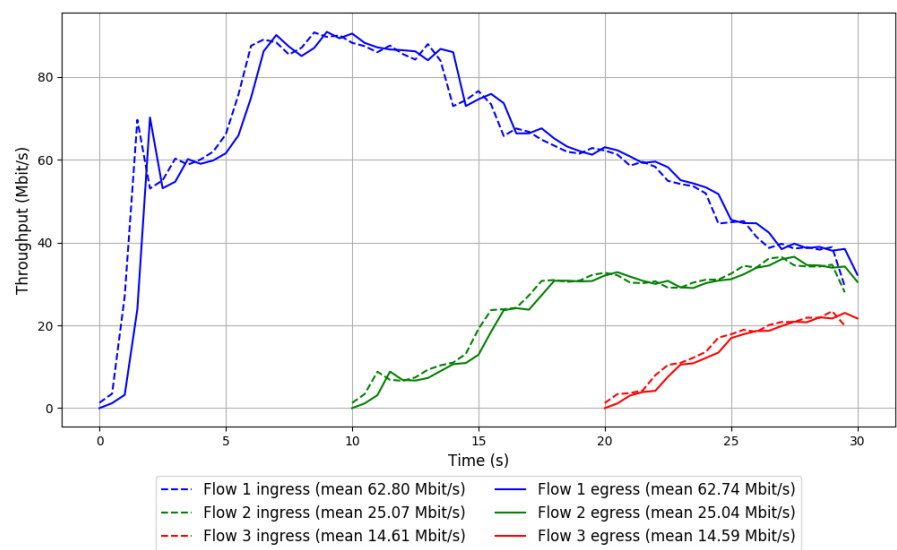
-- Flow 3:

Average throughput: 14.59 Mbit/s

95th percentile per-packet one-way delay: 38.089 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-18 17:49:39

End at: 2018-06-18 17:50:09

Local clock offset: 0.221 ms

Remote clock offset: 1.917 ms

Below is generated by plot.py at 2018-06-18 20:17:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 43.777 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.59 Mbit/s

95th percentile per-packet one-way delay: 42.060 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.15 Mbit/s

95th percentile per-packet one-way delay: 45.264 ms

Loss rate: 0.00%

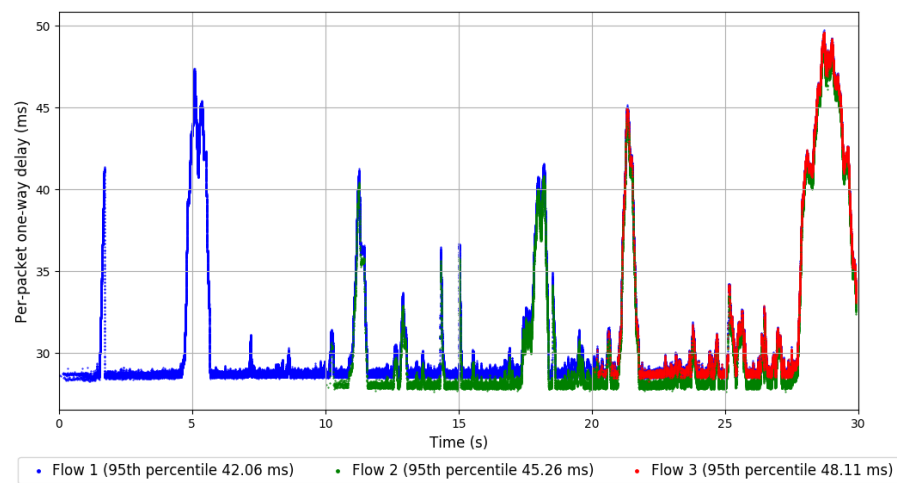
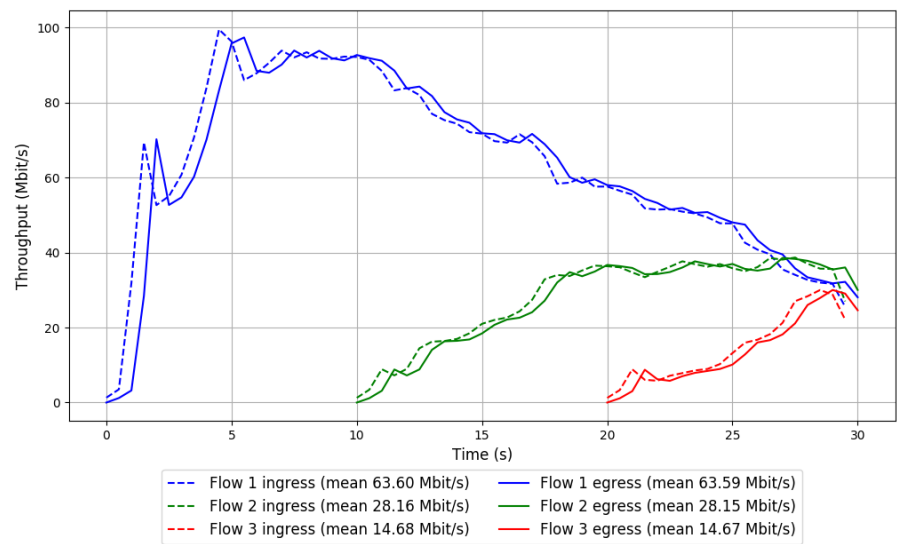
-- Flow 3:

Average throughput: 14.67 Mbit/s

95th percentile per-packet one-way delay: 48.110 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-18 18:11:04

End at: 2018-06-18 18:11:34

Local clock offset: -1.645 ms

Remote clock offset: 2.98 ms

Below is generated by plot.py at 2018-06-18 20:17:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.88 Mbit/s

95th percentile per-packet one-way delay: 31.495 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.39 Mbit/s

95th percentile per-packet one-way delay: 31.138 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.31 Mbit/s

95th percentile per-packet one-way delay: 32.180 ms

Loss rate: 0.00%

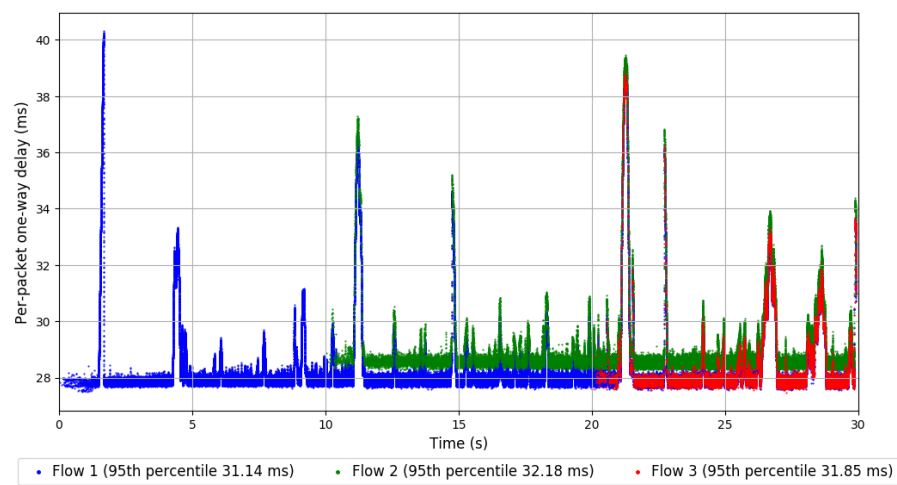
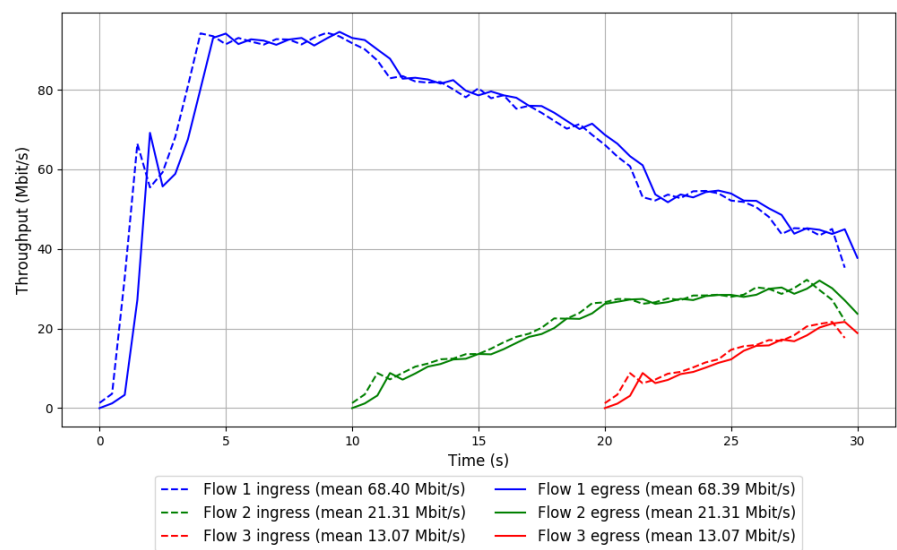
-- Flow 3:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 31.850 ms

Loss rate: 0.01%

Run 6: Report of PCC-Vivace — Data Link

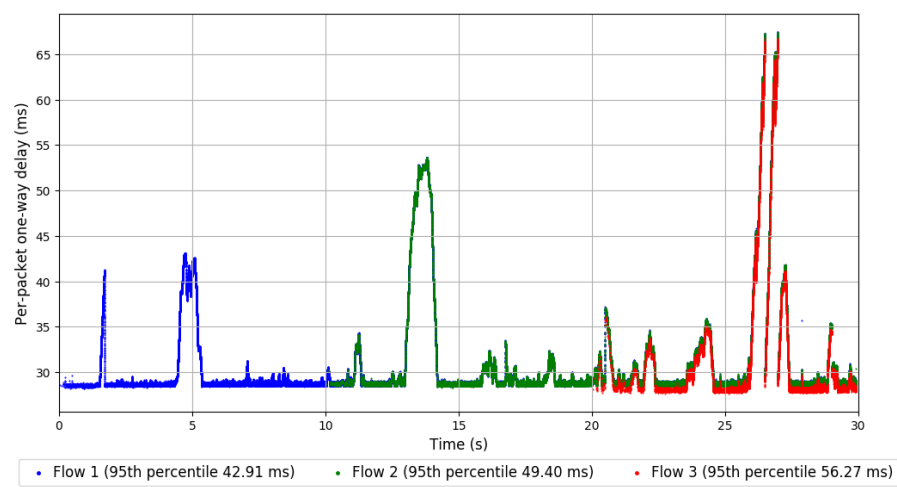
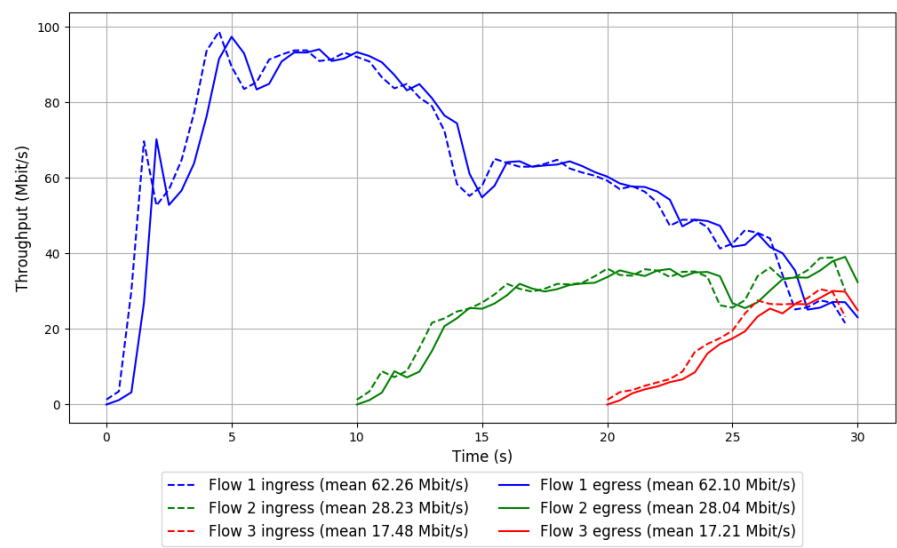


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-18 18:32:33
End at: 2018-06-18 18:33:03
Local clock offset: -3.531 ms
Remote clock offset: -2.137 ms

Below is generated by plot.py at 2018-06-18 20:17:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.43 Mbit/s
95th percentile per-packet one-way delay: 45.568 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 62.10 Mbit/s
95th percentile per-packet one-way delay: 42.914 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 28.04 Mbit/s
95th percentile per-packet one-way delay: 49.400 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 17.21 Mbit/s
95th percentile per-packet one-way delay: 56.269 ms
Loss rate: 1.58%

Run 7: Report of PCC-Vivace — Data Link

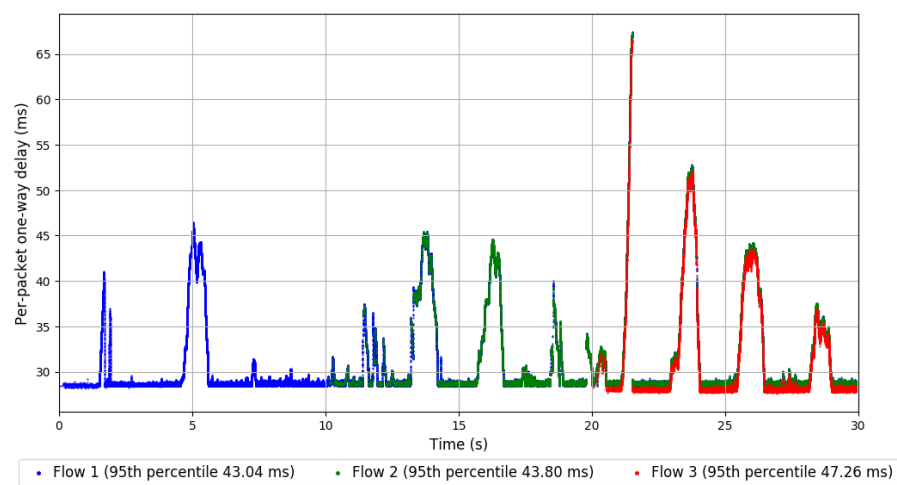
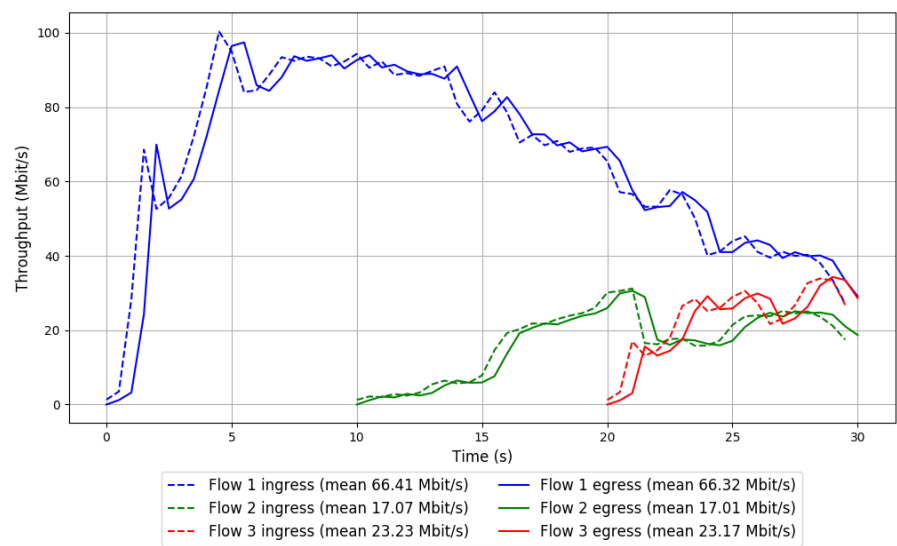


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-18 18:54:04
End at: 2018-06-18 18:54:34
Local clock offset: -4.222 ms
Remote clock offset: -3.336 ms

Below is generated by plot.py at 2018-06-18 20:17:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.28 Mbit/s
95th percentile per-packet one-way delay: 43.379 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 66.32 Mbit/s
95th percentile per-packet one-way delay: 43.043 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 17.01 Mbit/s
95th percentile per-packet one-way delay: 43.805 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 23.17 Mbit/s
95th percentile per-packet one-way delay: 47.256 ms
Loss rate: 0.25%

Run 8: Report of PCC-Vivace — Data Link

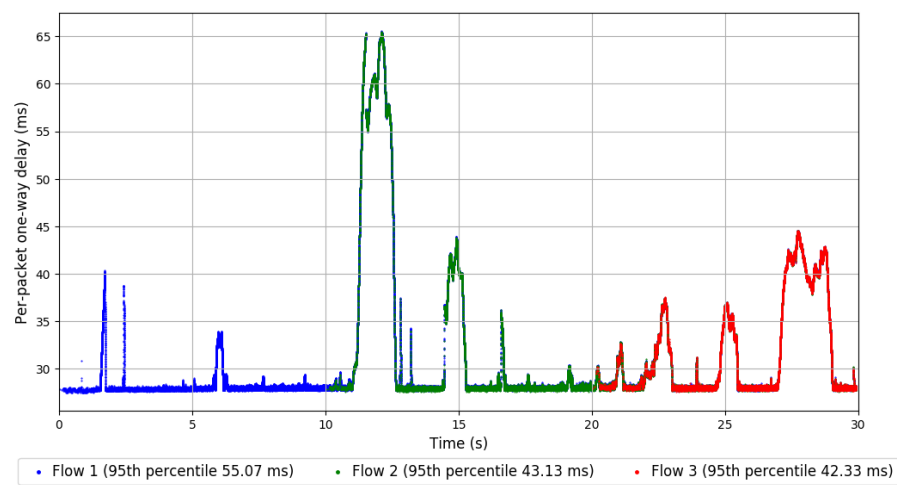
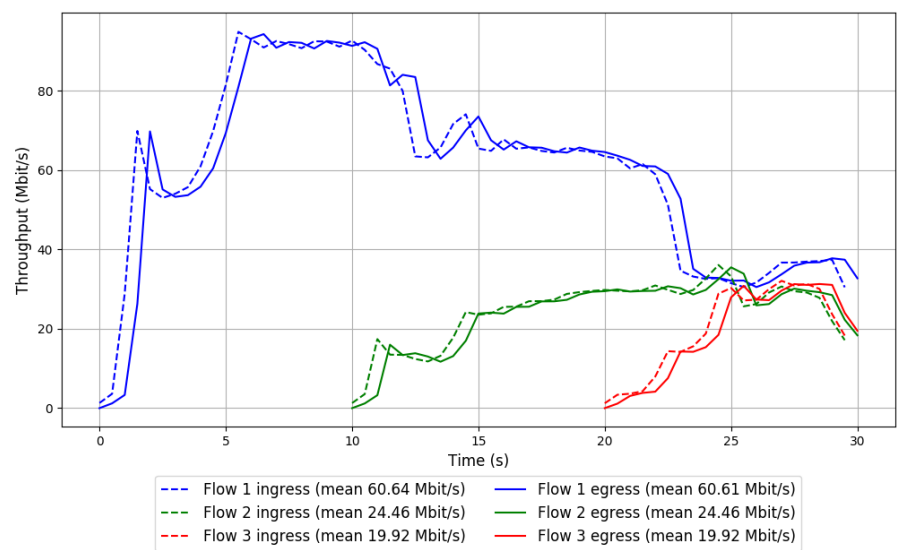


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-18 19:15:46
End at: 2018-06-18 19:16:16
Local clock offset: -2.647 ms
Remote clock offset: -3.898 ms

Below is generated by plot.py at 2018-06-18 20:17:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.46 Mbit/s
95th percentile per-packet one-way delay: 44.312 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 60.61 Mbit/s
95th percentile per-packet one-way delay: 55.066 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 24.46 Mbit/s
95th percentile per-packet one-way delay: 43.133 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 19.92 Mbit/s
95th percentile per-packet one-way delay: 42.331 ms
Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link

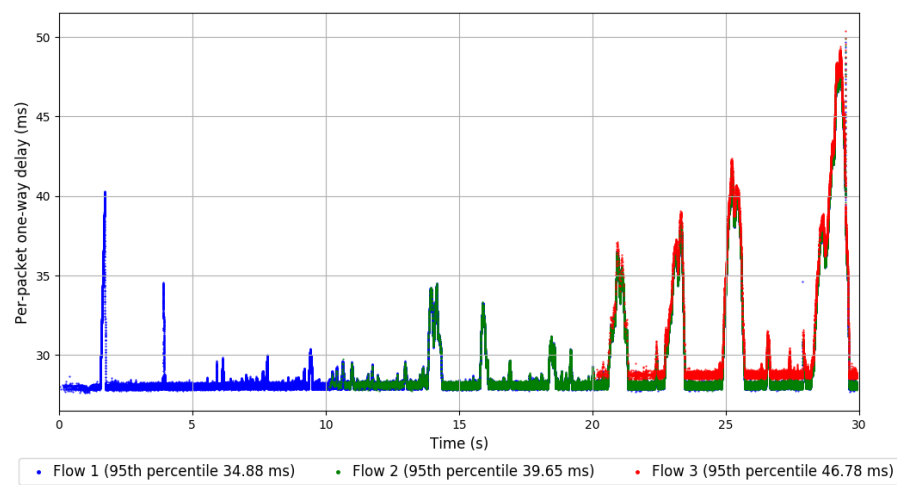
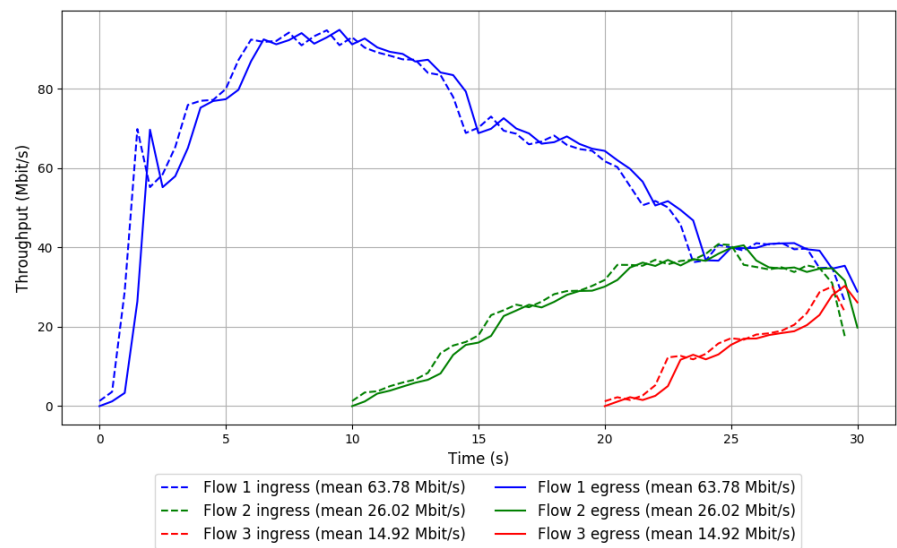


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-18 19:37:15
End at: 2018-06-18 19:37:45
Local clock offset: -2.068 ms
Remote clock offset: -3.074 ms

Below is generated by plot.py at 2018-06-18 20:17:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.01 Mbit/s
95th percentile per-packet one-way delay: 37.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.78 Mbit/s
95th percentile per-packet one-way delay: 34.885 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.02 Mbit/s
95th percentile per-packet one-way delay: 39.652 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.92 Mbit/s
95th percentile per-packet one-way delay: 46.781 ms
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

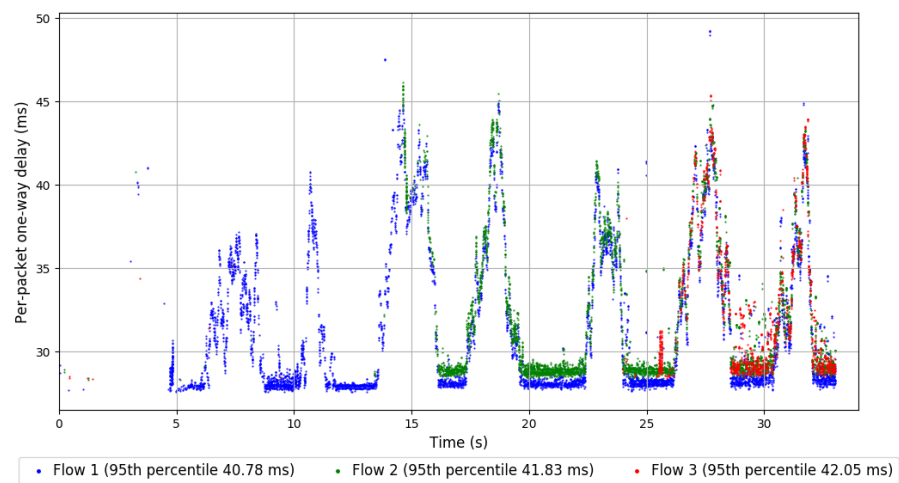
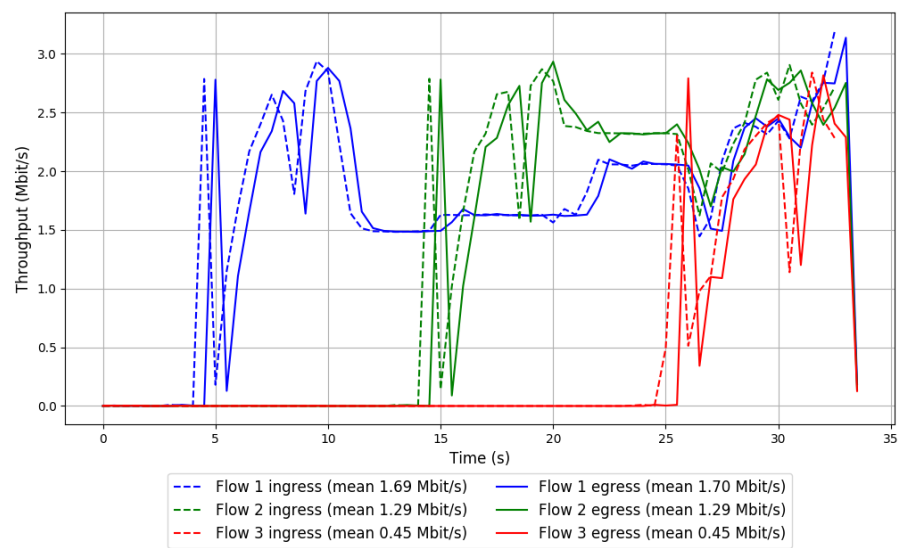


Run 1: Statistics of WebRTC media

Start at: 2018-06-18 16:36:08
End at: 2018-06-18 16:36:38
Local clock offset: -2.224 ms
Remote clock offset: -2.635 ms

Below is generated by plot.py at 2018-06-18 20:17:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 41.346 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 40.781 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 41.827 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 42.051 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

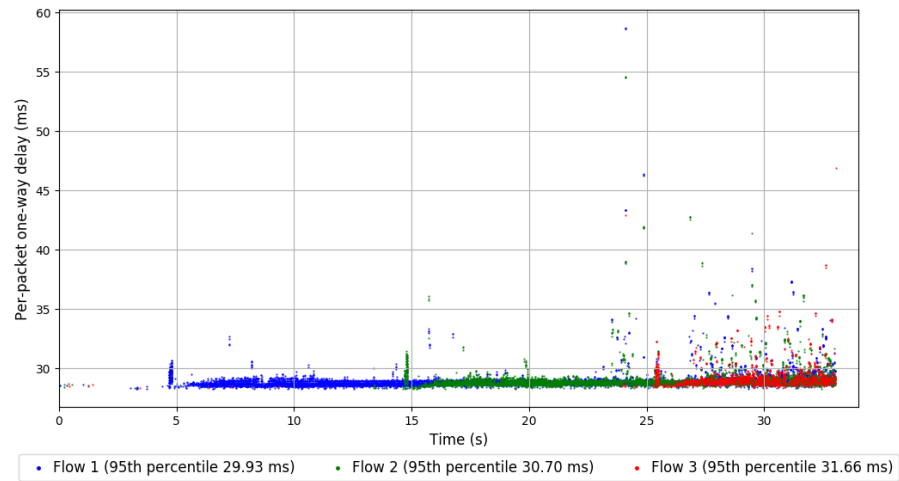
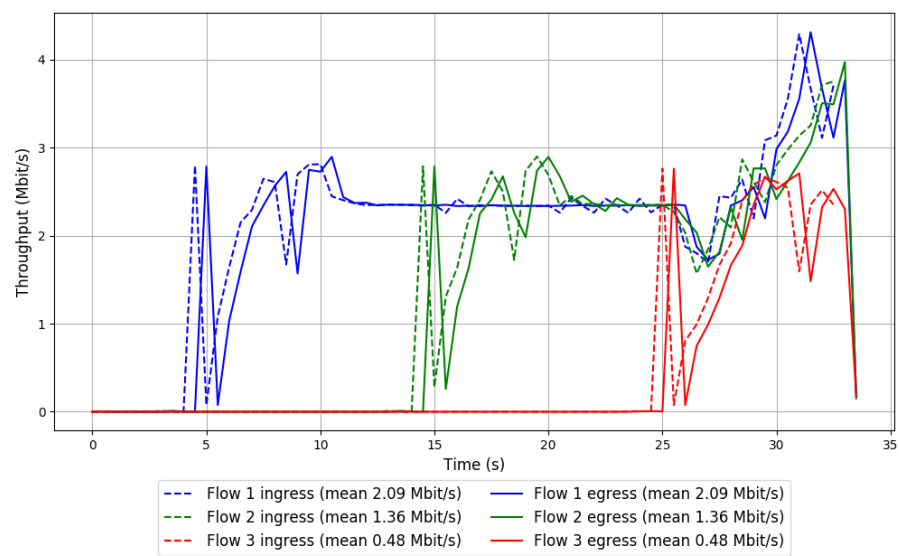


Run 2: Statistics of WebRTC media

Start at: 2018-06-18 16:57:29
End at: 2018-06-18 16:57:59
Local clock offset: 0.81 ms
Remote clock offset: -2.589 ms

Below is generated by plot.py at 2018-06-18 20:17:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 30.374 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 29.925 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 30.698 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 31.663 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-18 17:18:55

End at: 2018-06-18 17:19:25

Local clock offset: 0.251 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-18 20:17:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 29.948 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 29.597 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 30.009 ms

Loss rate: 0.00%

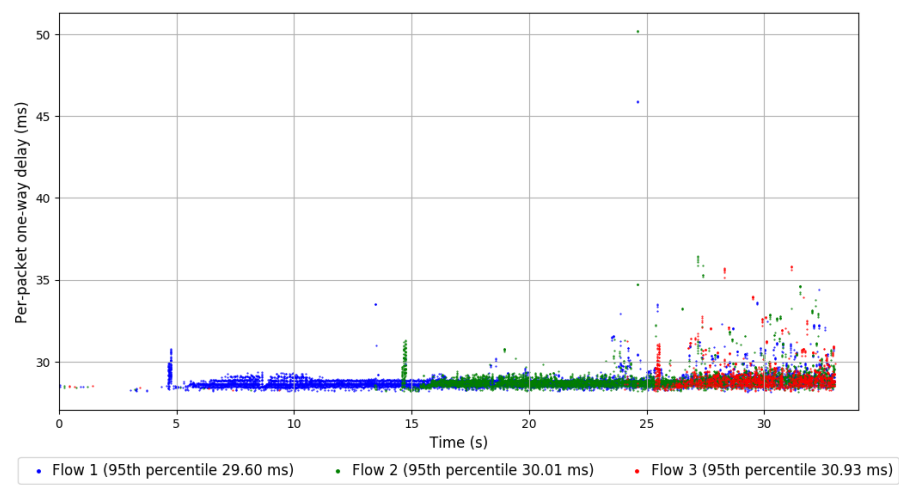
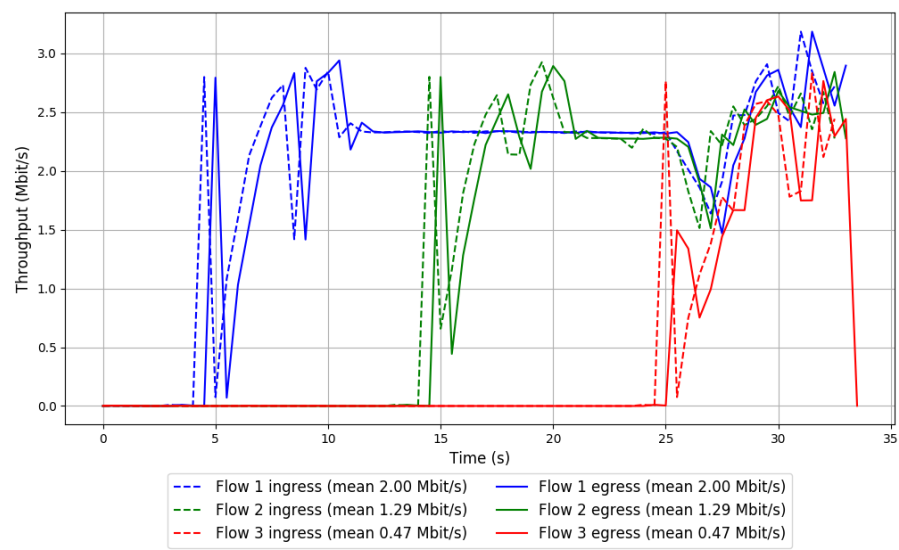
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 30.926 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-18 17:40:18

End at: 2018-06-18 17:40:48

Local clock offset: 0.233 ms

Remote clock offset: 1.443 ms

Below is generated by plot.py at 2018-06-18 20:17:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 30.170 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 29.047 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 30.579 ms

Loss rate: 0.00%

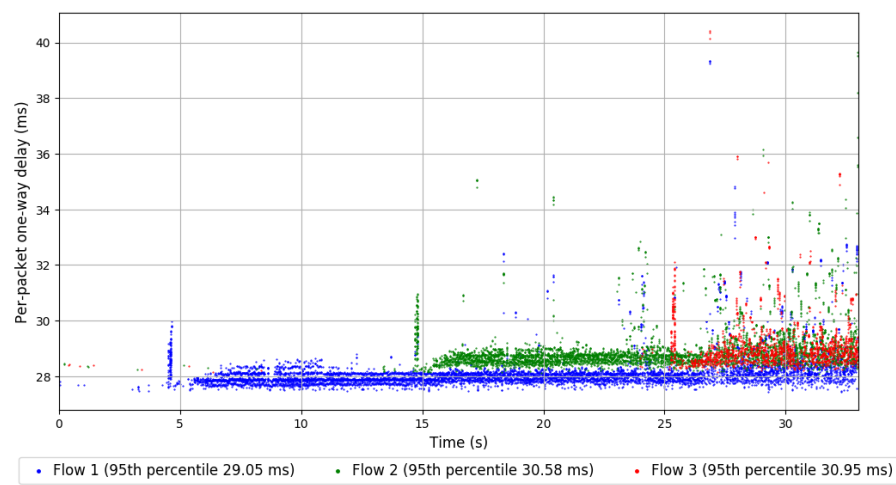
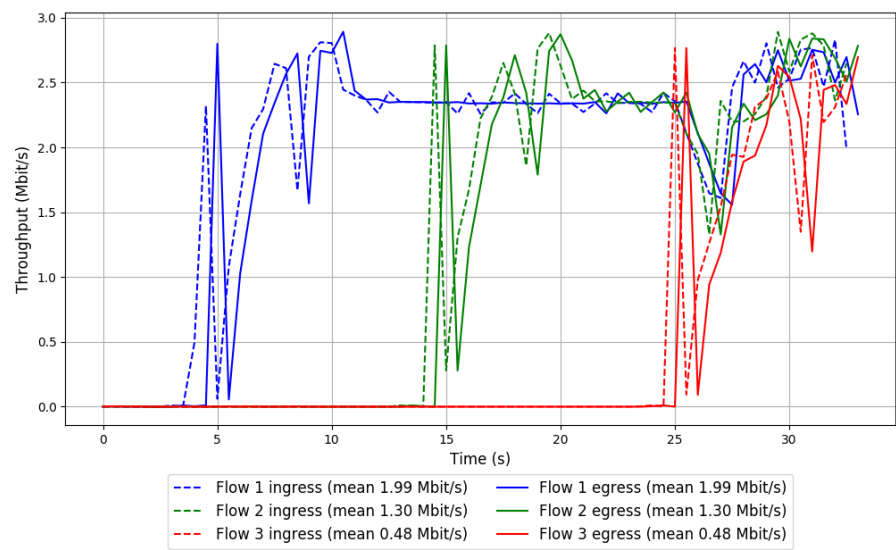
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 30.948 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-18 18:01:42

End at: 2018-06-18 18:02:12

Local clock offset: 0.372 ms

Remote clock offset: 2.451 ms

Below is generated by plot.py at 2018-06-18 20:17:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 29.621 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 29.254 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 29.746 ms

Loss rate: 0.05%

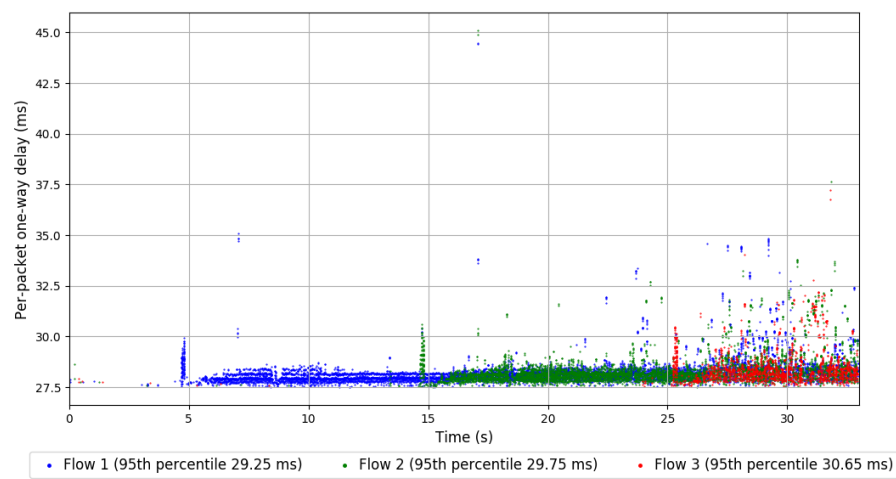
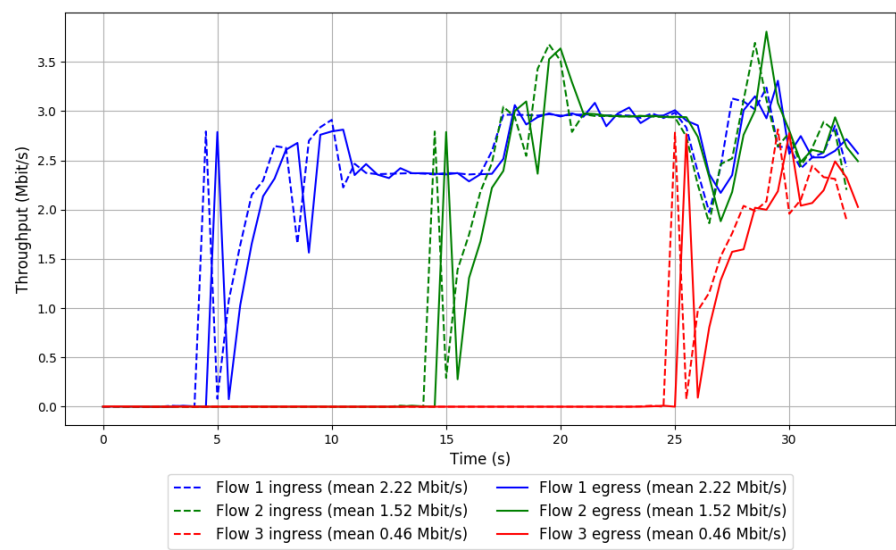
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 30.651 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

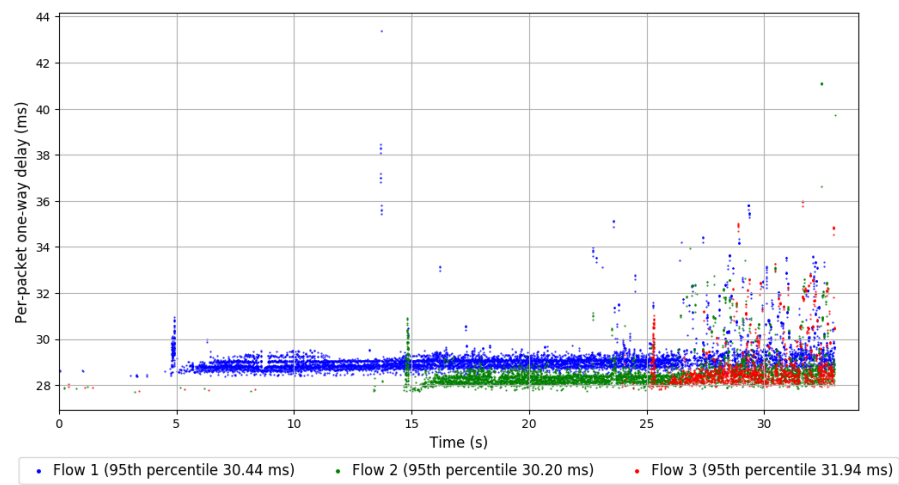
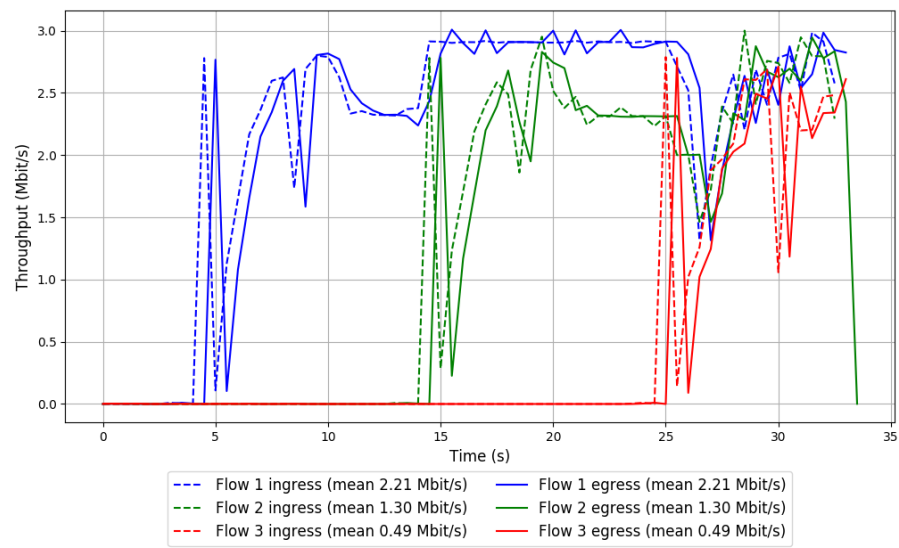


Run 6: Statistics of WebRTC media

Start at: 2018-06-18 18:23:08
End at: 2018-06-18 18:23:38
Local clock offset: -3.094 ms
Remote clock offset: -0.447 ms

Below is generated by plot.py at 2018-06-18 20:17:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 30.666 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 30.439 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 30.200 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 31.936 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

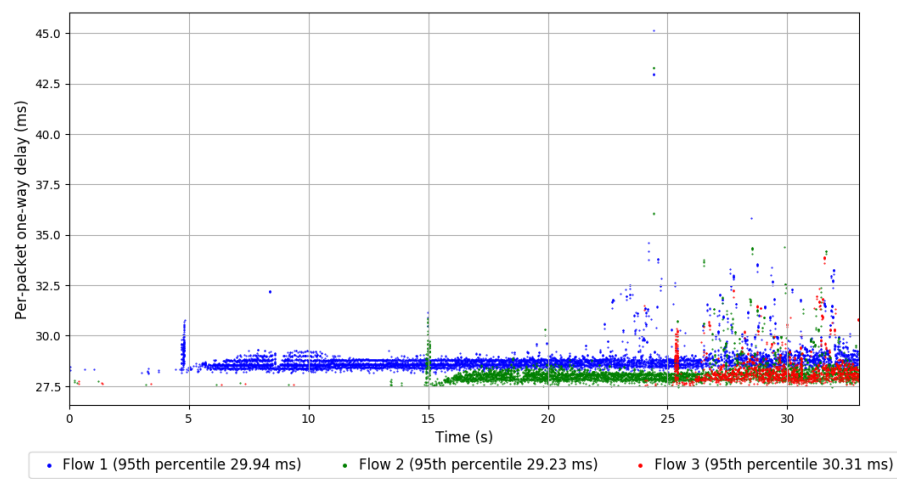
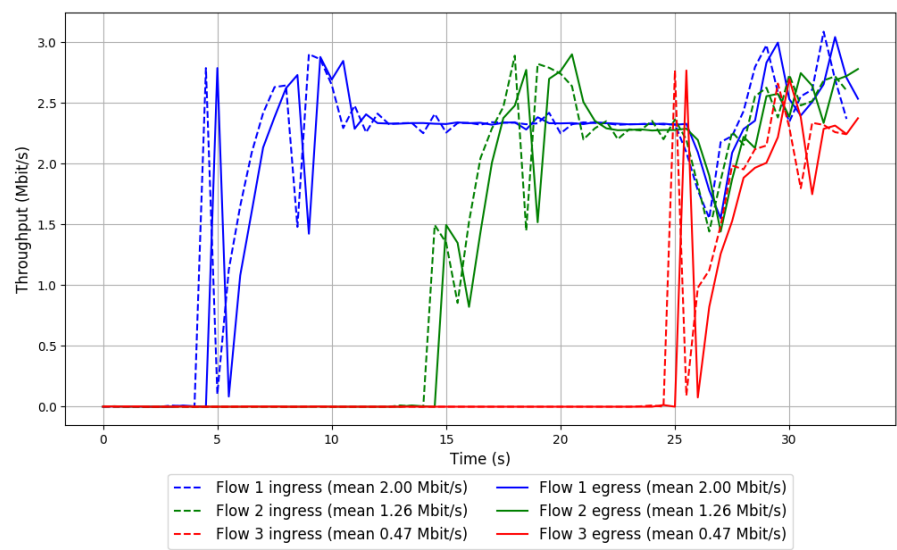


Run 7: Statistics of WebRTC media

Start at: 2018-06-18 18:44:39
End at: 2018-06-18 18:45:09
Local clock offset: -3.892 ms
Remote clock offset: -3.041 ms

Below is generated by plot.py at 2018-06-18 20:17:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 29.815 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 29.944 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 29.227 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 30.306 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

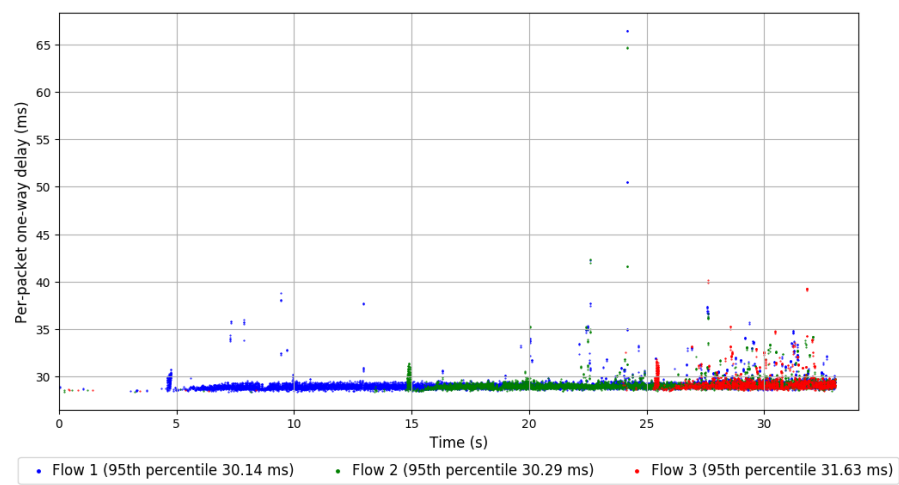
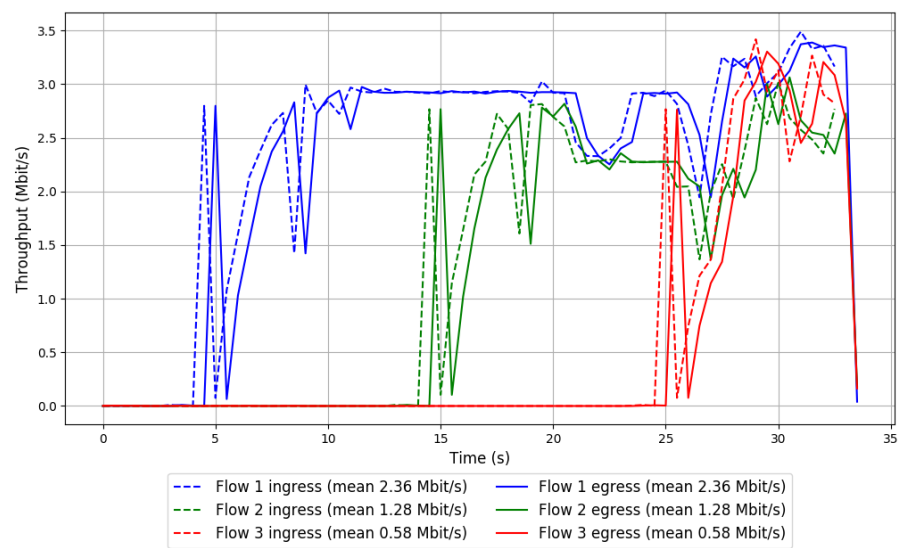


Run 8: Statistics of WebRTC media

Start at: 2018-06-18 19:06:07
End at: 2018-06-18 19:06:37
Local clock offset: -4.02 ms
Remote clock offset: -3.619 ms

Below is generated by plot.py at 2018-06-18 20:17:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 30.539 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 30.143 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 30.289 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 31.626 ms
Loss rate: 0.10%

Run 8: Report of WebRTC media — Data Link

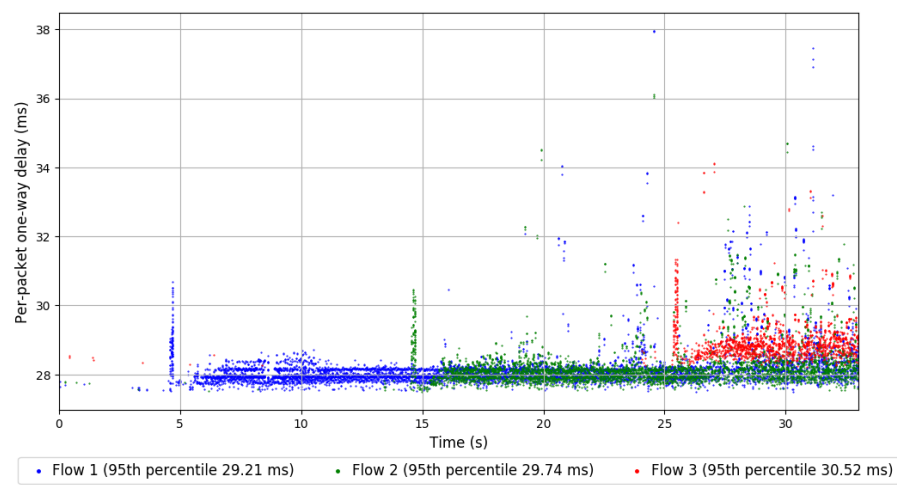
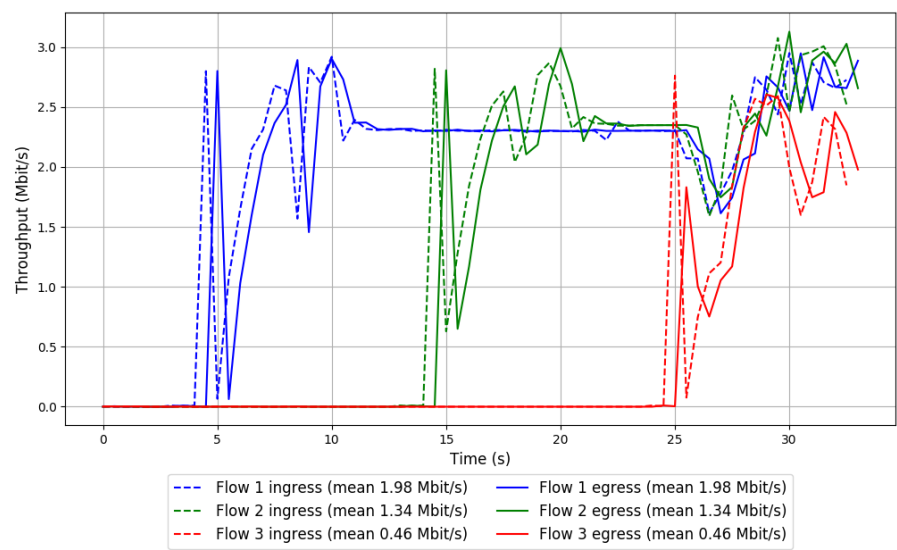


Run 9: Statistics of WebRTC media

Start at: 2018-06-18 19:27:52
End at: 2018-06-18 19:28:22
Local clock offset: -2.058 ms
Remote clock offset: -3.592 ms

Below is generated by plot.py at 2018-06-18 20:17:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.76 Mbit/s
95th percentile per-packet one-way delay: 29.644 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 29.215 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 29.736 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 30.517 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-18 19:49:16
End at: 2018-06-18 19:49:46
Local clock offset: -2.107 ms
Remote clock offset: -2.937 ms

Below is generated by plot.py at 2018-06-18 20:17:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.77 Mbit/s
95th percentile per-packet one-way delay: 30.561 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 29.567 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 30.727 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 31.589 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

