

Pantheon Report

Generated at 2018-05-22 19:02:38 (UTC).

Data path: Colombia Ethernet (*remote*) → AWS Brazil 2 Ethernet (*local*).

Repeated the test of 16 congestion control schemes 10 times.

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

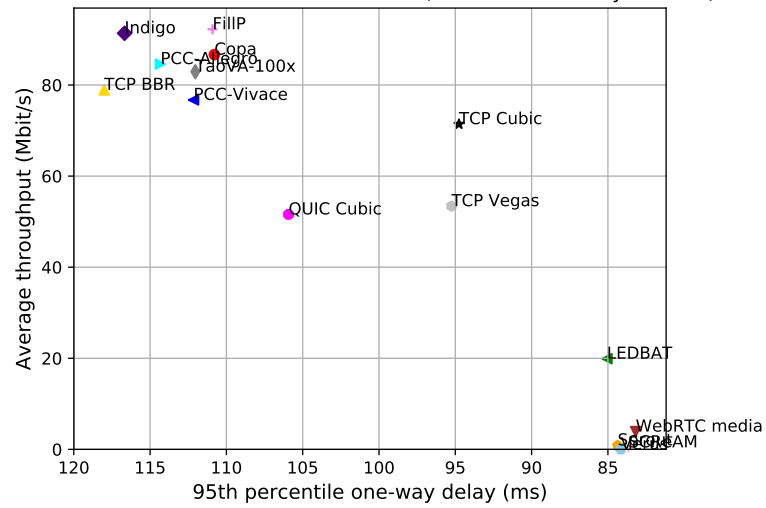
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

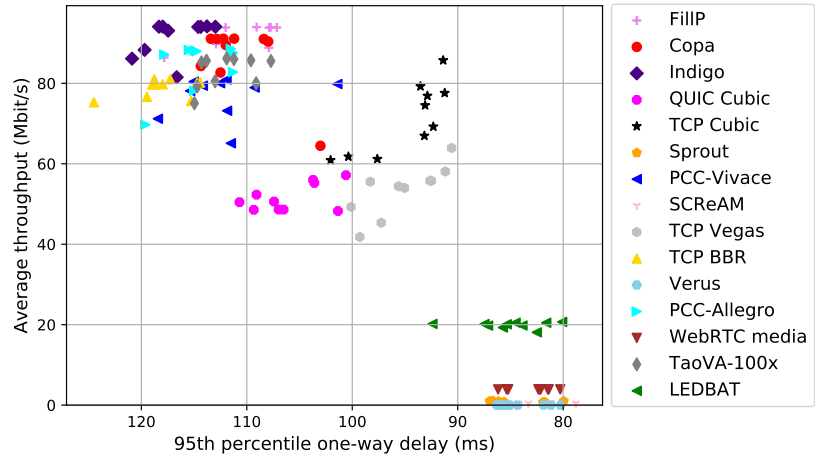
Git summary:

```
branch: master @ 2d1d4407e851ba626e5ca4626a306105793df686
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



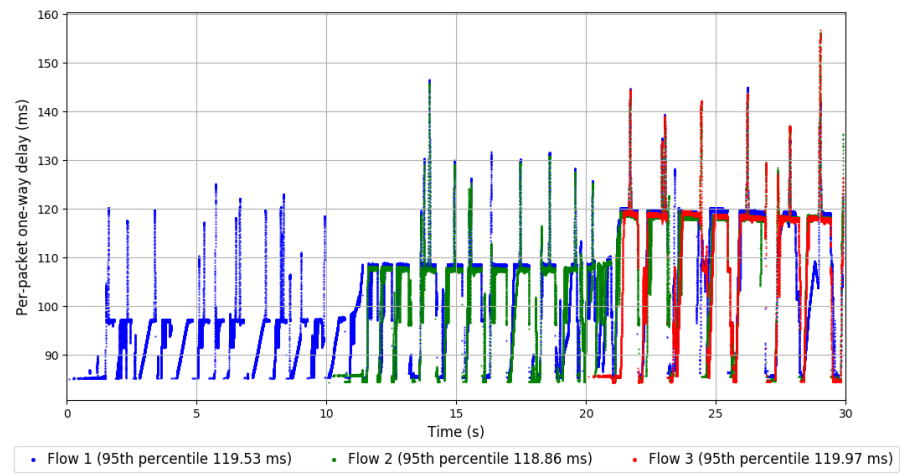
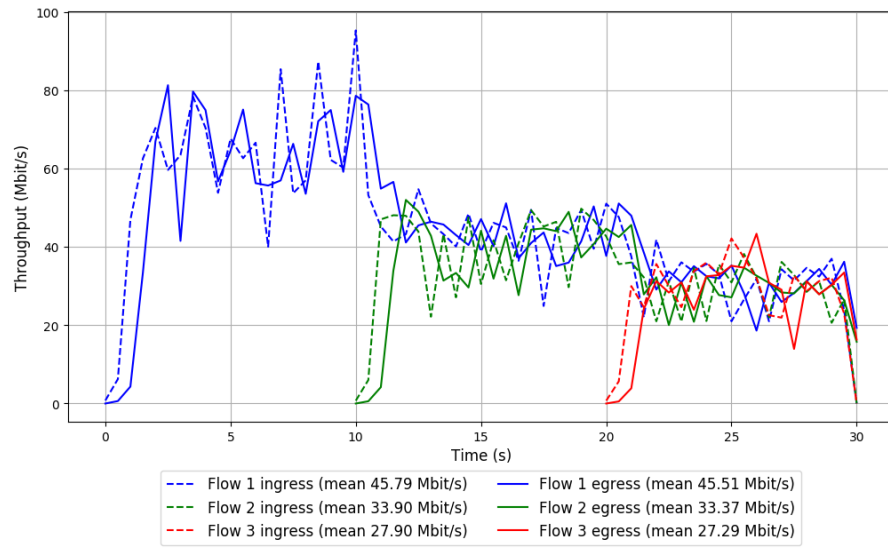
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	46.49	35.25	27.52	116.96	118.42	119.74	1.30	2.28	4.15
Copa	10	54.73	34.48	27.48	110.03	109.75	111.93	1.46	2.48	3.33
TCP Cubic	10	43.59	30.88	22.23	93.37	96.87	105.57	0.36	0.69	1.77
FillP	10	57.16	38.42	29.24	109.12	111.78	114.71	1.73	3.64	5.38
Indigo	10	56.58	38.39	28.66	115.46	117.68	112.52	4.35	1.49	2.35
LEDBAT	10	12.81	8.65	4.16	85.16	84.38	85.09	1.06	1.66	3.36
PCC-Allegro	10	53.59	33.01	27.96	109.87	114.92	118.53	5.99	4.09	4.37
PCC-Expr	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
QUIC Cubic	10	30.12	22.05	20.91	103.74	106.22	114.53	0.58	1.16	2.66
SCReAM	10	0.22	0.22	0.22	82.94	83.30	83.32	0.51	0.82	1.61
Sprout	10	0.44	0.38	0.55	84.16	83.73	83.89	0.43	0.54	1.29
TaoVA-100x	10	49.44	36.29	28.76	111.41	112.18	114.08	0.38	0.84	1.80
TCP Vegas	10	31.03	24.40	18.76	92.95	96.52	108.95	0.39	0.85	1.81
Verus	10	0.00	0.00	0.00	83.89	83.15	83.86	0.00	0.00	0.00
PCC-Vivace	10	49.50	30.25	21.94	110.01	113.31	116.40	2.67	3.25	2.64
WebRTC media	10	2.11	1.32	0.49	82.45	82.64	83.02	0.57	0.90	2.43

Run 1: Statistics of TCP BBR

Start at: 2018-05-22 15:45:23
End at: 2018-05-22 15:45:53
Local clock offset: -2.355 ms
Remote clock offset: -2.005 ms

Below is generated by plot.py at 2018-05-22 18:48:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.65 Mbit/s
95th percentile per-packet one-way delay: 119.471 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 45.51 Mbit/s
95th percentile per-packet one-way delay: 119.531 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 33.37 Mbit/s
95th percentile per-packet one-way delay: 118.862 ms
Loss rate: 2.51%
-- Flow 3:
Average throughput: 27.29 Mbit/s
95th percentile per-packet one-way delay: 119.965 ms
Loss rate: 4.15%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-22 16:04:58

End at: 2018-05-22 16:05:28

Local clock offset: -1.611 ms

Remote clock offset: 4.166 ms

Below is generated by plot.py at 2018-05-22 18:48:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.29 Mbit/s

95th percentile per-packet one-way delay: 124.503 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 44.49 Mbit/s

95th percentile per-packet one-way delay: 119.336 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 33.21 Mbit/s

95th percentile per-packet one-way delay: 127.249 ms

Loss rate: 2.66%

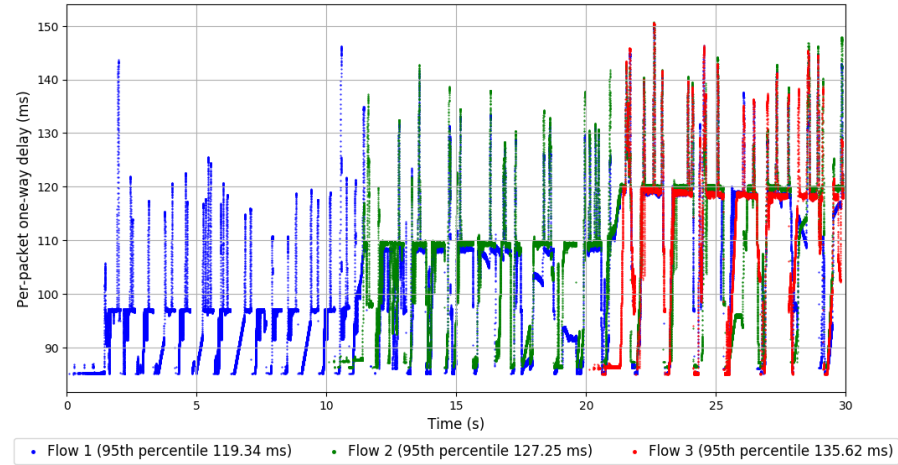
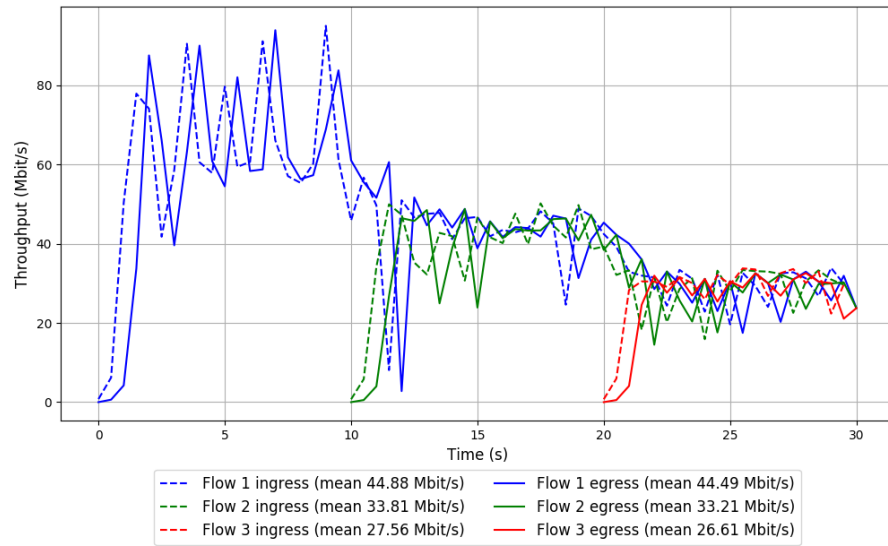
-- Flow 3:

Average throughput: 26.61 Mbit/s

95th percentile per-packet one-way delay: 135.619 ms

Loss rate: 5.18%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-22 16:24:34

End at: 2018-05-22 16:25:04

Local clock offset: -2.306 ms

Remote clock offset: 8.595 ms

Below is generated by plot.py at 2018-05-22 18:48:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.62 Mbit/s

95th percentile per-packet one-way delay: 115.283 ms

Loss rate: 2.11%

-- Flow 1:

Average throughput: 45.02 Mbit/s

95th percentile per-packet one-way delay: 115.209 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 32.90 Mbit/s

95th percentile per-packet one-way delay: 116.097 ms

Loss rate: 2.44%

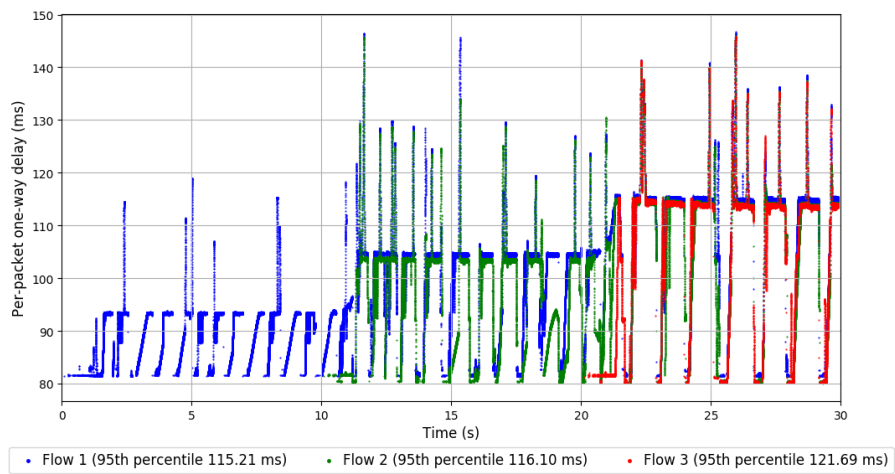
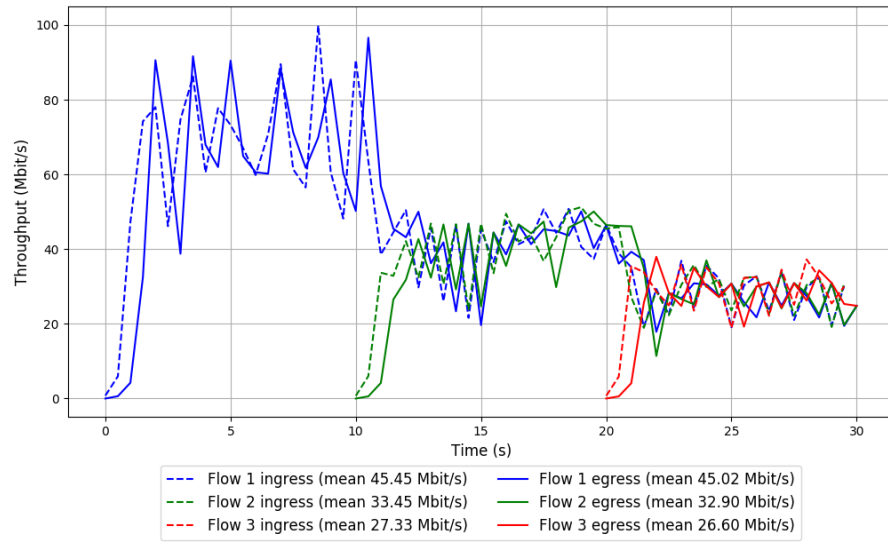
-- Flow 3:

Average throughput: 26.60 Mbit/s

95th percentile per-packet one-way delay: 121.690 ms

Loss rate: 4.41%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-22 16:44:13

End at: 2018-05-22 16:44:43

Local clock offset: -7.102 ms

Remote clock offset: 5.326 ms

Below is generated by plot.py at 2018-05-22 18:48:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.01 Mbit/s

95th percentile per-packet one-way delay: 118.774 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 47.90 Mbit/s

95th percentile per-packet one-way delay: 119.027 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 35.47 Mbit/s

95th percentile per-packet one-way delay: 118.641 ms

Loss rate: 2.46%

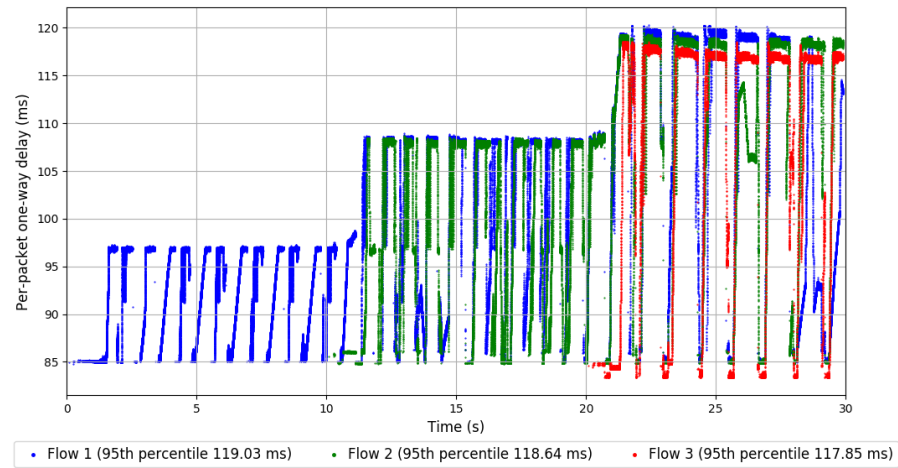
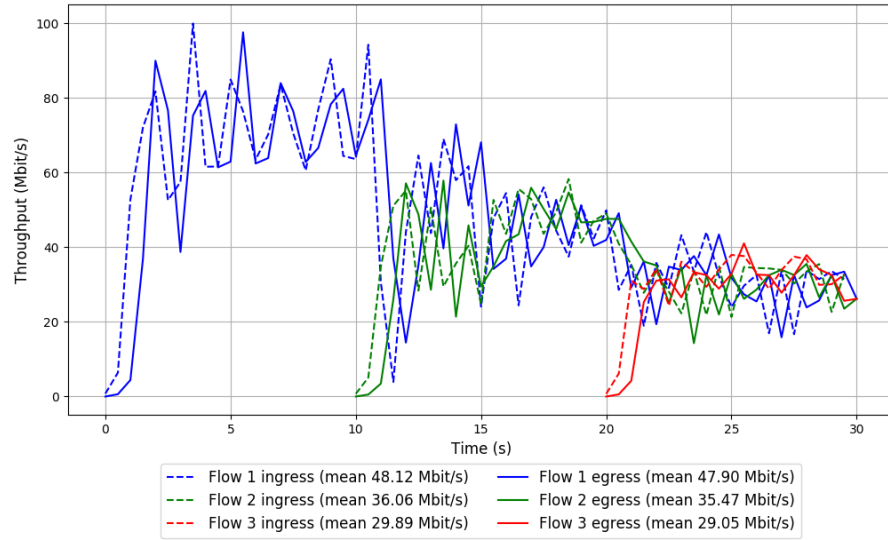
-- Flow 3:

Average throughput: 29.05 Mbit/s

95th percentile per-packet one-way delay: 117.850 ms

Loss rate: 4.55%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-22 17:03:53

End at: 2018-05-22 17:04:23

Local clock offset: -7.304 ms

Remote clock offset: 7.925 ms

Below is generated by plot.py at 2018-05-22 18:48:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.23 Mbit/s

95th percentile per-packet one-way delay: 114.707 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 46.70 Mbit/s

95th percentile per-packet one-way delay: 114.922 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 36.94 Mbit/s

95th percentile per-packet one-way delay: 114.569 ms

Loss rate: 1.94%

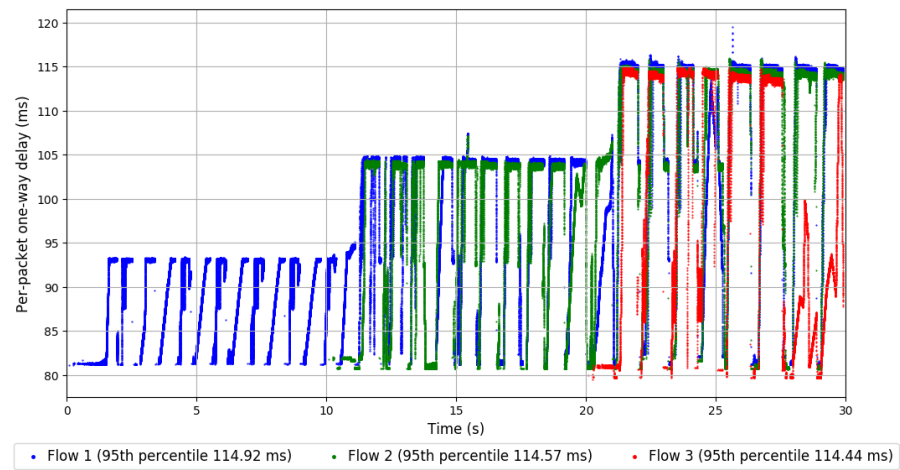
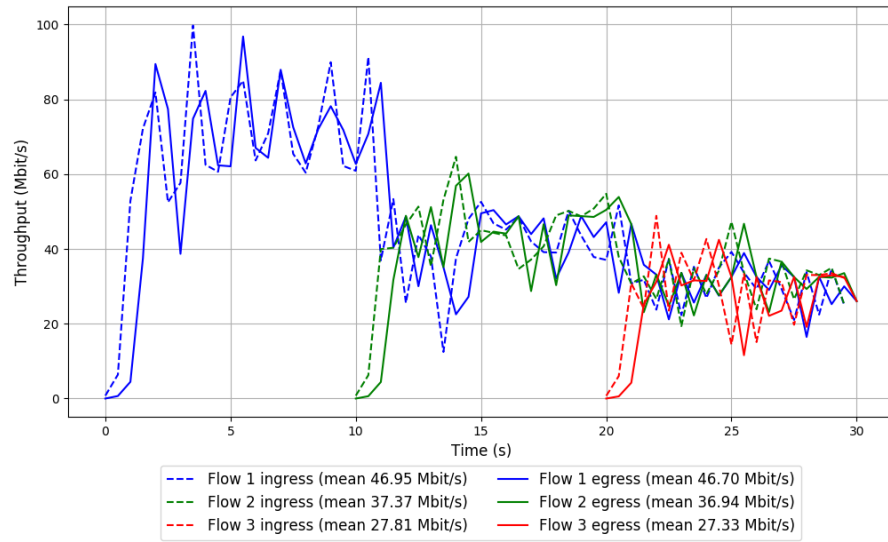
-- Flow 3:

Average throughput: 27.33 Mbit/s

95th percentile per-packet one-way delay: 114.437 ms

Loss rate: 3.36%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-22 17:23:33

End at: 2018-05-22 17:24:03

Local clock offset: -7.851 ms

Remote clock offset: 3.81 ms

Below is generated by plot.py at 2018-05-22 18:48:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.03 Mbit/s

95th percentile per-packet one-way delay: 117.258 ms

Loss rate: 1.94%

-- Flow 1:

Average throughput: 47.36 Mbit/s

95th percentile per-packet one-way delay: 116.365 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 36.94 Mbit/s

95th percentile per-packet one-way delay: 117.460 ms

Loss rate: 2.34%

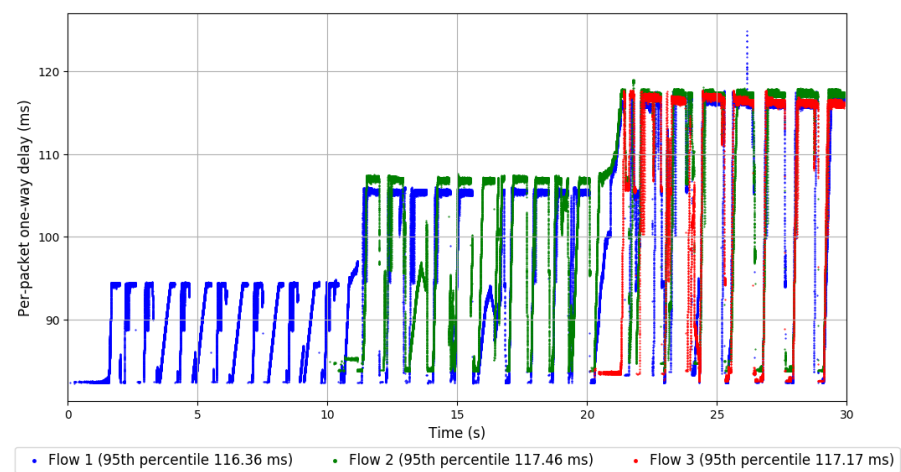
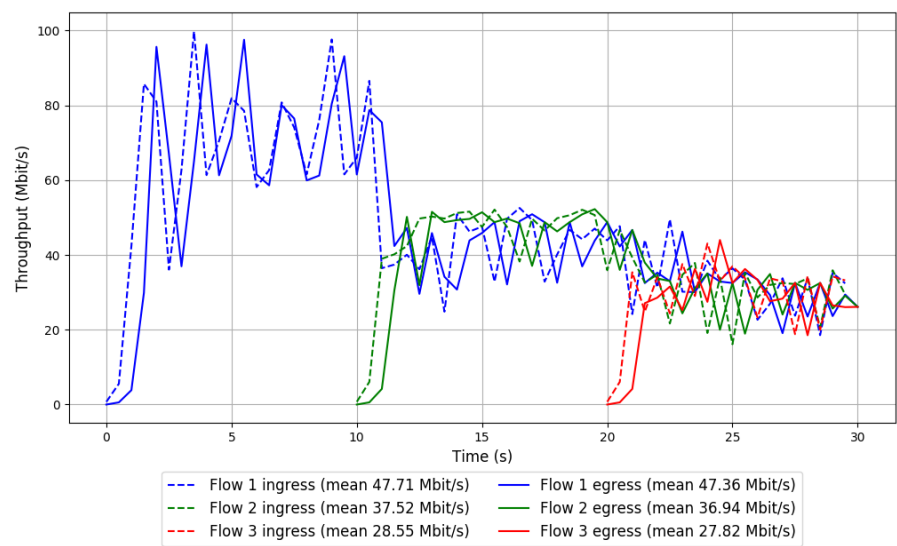
-- Flow 3:

Average throughput: 27.82 Mbit/s

95th percentile per-packet one-way delay: 117.171 ms

Loss rate: 4.24%

Run 6: Report of TCP BBR — Data Link

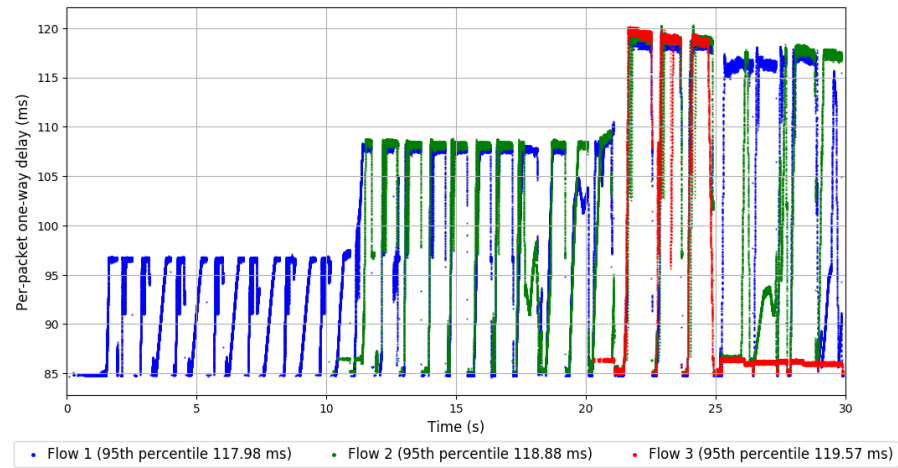
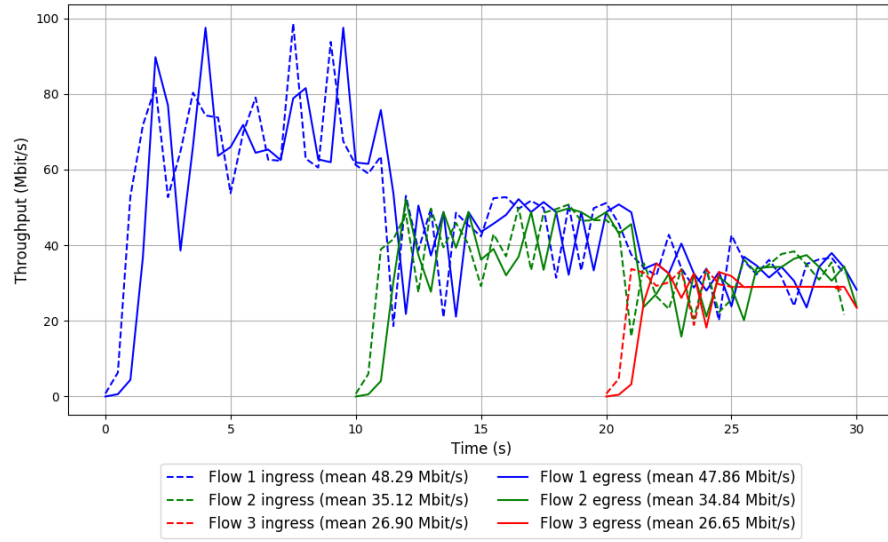


Run 7: Statistics of TCP BBR

Start at: 2018-05-22 17:43:14
End at: 2018-05-22 17:43:44
Local clock offset: -0.826 ms
Remote clock offset: 10.264 ms

Below is generated by plot.py at 2018-05-22 18:48:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.75 Mbit/s
95th percentile per-packet one-way delay: 118.688 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 47.86 Mbit/s
95th percentile per-packet one-way delay: 117.984 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 34.84 Mbit/s
95th percentile per-packet one-way delay: 118.878 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 26.65 Mbit/s
95th percentile per-packet one-way delay: 119.569 ms
Loss rate: 2.56%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-22 18:02:54

End at: 2018-05-22 18:03:24

Local clock offset: -0.643 ms

Remote clock offset: 9.679 ms

Below is generated by plot.py at 2018-05-22 18:48:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.75 Mbit/s

95th percentile per-packet one-way delay: 118.968 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 46.61 Mbit/s

95th percentile per-packet one-way delay: 118.757 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 118.920 ms

Loss rate: 2.23%

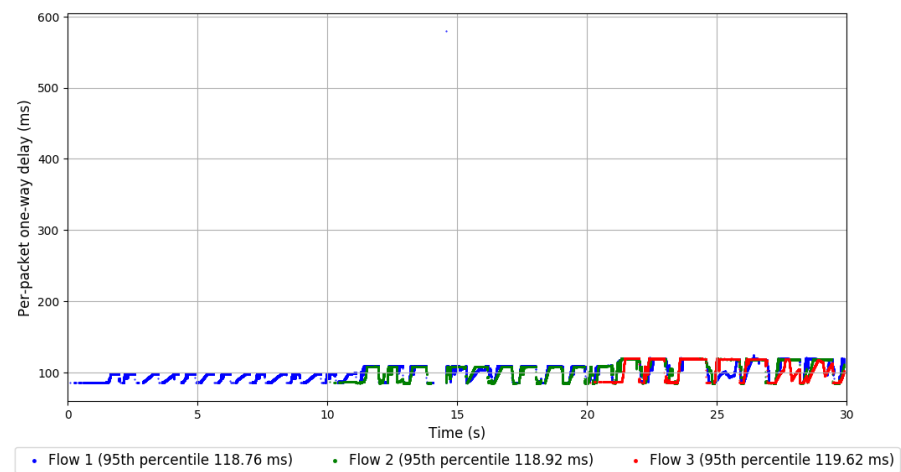
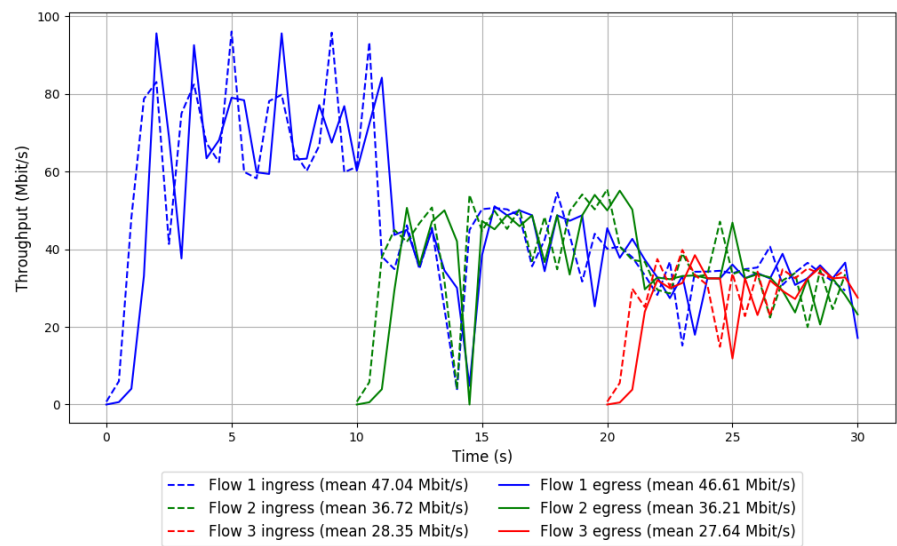
-- Flow 3:

Average throughput: 27.64 Mbit/s

95th percentile per-packet one-way delay: 119.624 ms

Loss rate: 4.12%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-22 18:22:34

End at: 2018-05-22 18:23:04

Local clock offset: -1.267 ms

Remote clock offset: 2.687 ms

Below is generated by plot.py at 2018-05-22 18:49:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 117.984 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 46.09 Mbit/s

95th percentile per-packet one-way delay: 115.744 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 37.16 Mbit/s

95th percentile per-packet one-way delay: 118.672 ms

Loss rate: 2.11%

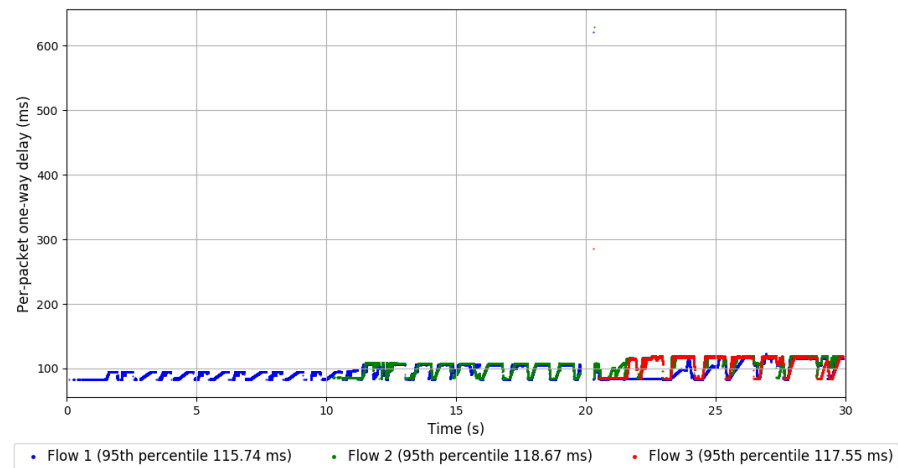
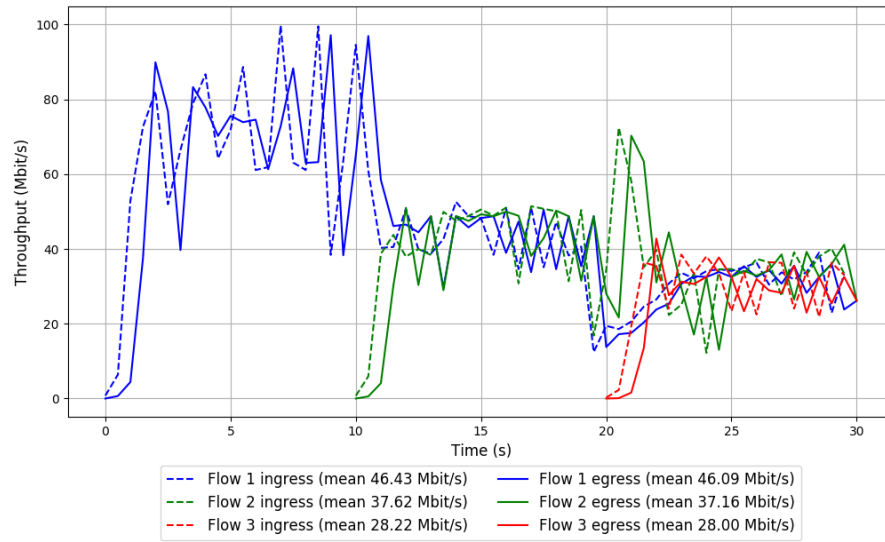
-- Flow 3:

Average throughput: 28.00 Mbit/s

95th percentile per-packet one-way delay: 117.552 ms

Loss rate: 4.44%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-22 18:42:14

End at: 2018-05-22 18:42:44

Local clock offset: -2.567 ms

Remote clock offset: 7.075 ms

Below is generated by plot.py at 2018-05-22 18:49:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.20 Mbit/s

95th percentile per-packet one-way delay: 114.425 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 47.37 Mbit/s

95th percentile per-packet one-way delay: 112.703 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 35.50 Mbit/s

95th percentile per-packet one-way delay: 114.837 ms

Loss rate: 2.49%

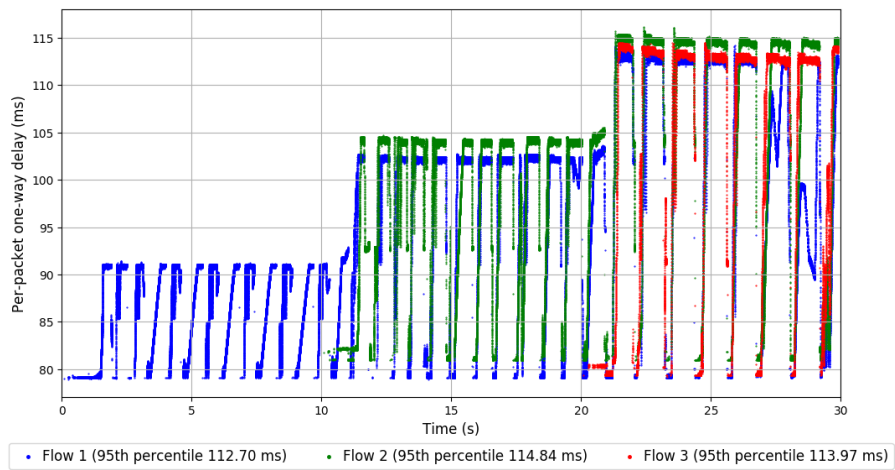
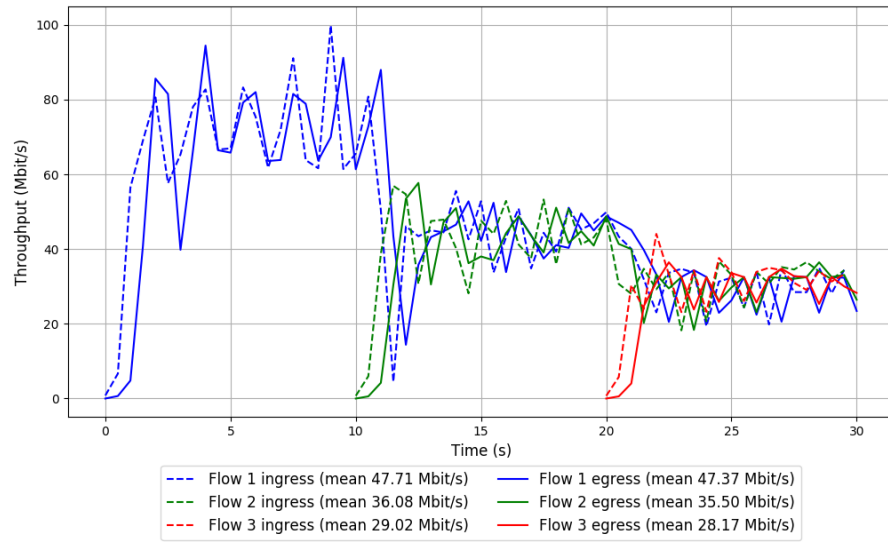
-- Flow 3:

Average throughput: 28.17 Mbit/s

95th percentile per-packet one-way delay: 113.969 ms

Loss rate: 4.52%

Run 10: Report of TCP BBR — Data Link

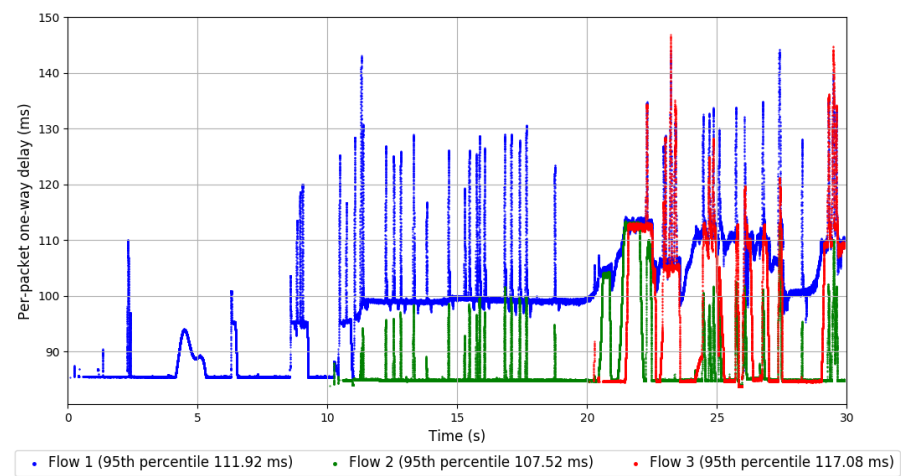
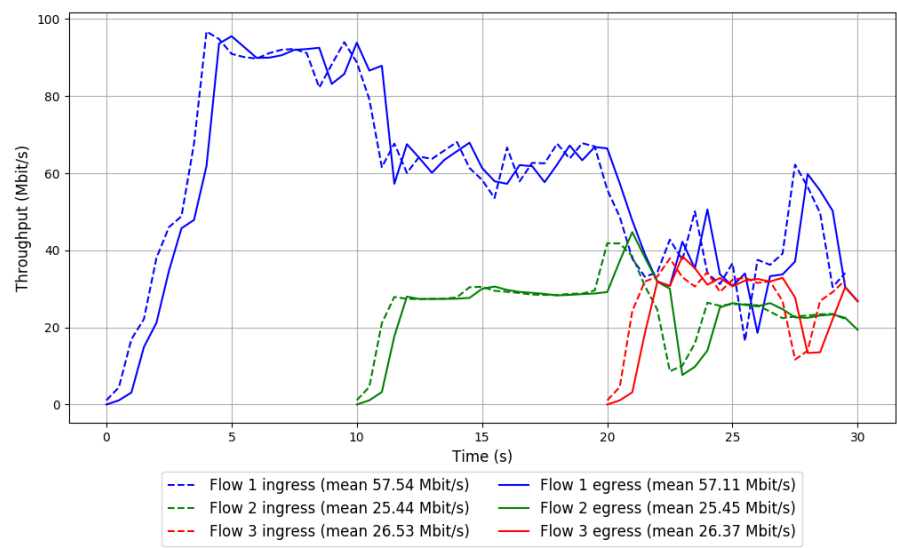


Run 1: Statistics of Copa

Start at: 2018-05-22 15:40:19
End at: 2018-05-22 15:40:49
Local clock offset: -2.438 ms
Remote clock offset: -2.606 ms

Below is generated by plot.py at 2018-05-22 18:50:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.70 Mbit/s
95th percentile per-packet one-way delay: 112.495 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 57.11 Mbit/s
95th percentile per-packet one-way delay: 111.920 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 25.45 Mbit/s
95th percentile per-packet one-way delay: 107.519 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 26.37 Mbit/s
95th percentile per-packet one-way delay: 117.085 ms
Loss rate: 2.33%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-22 15:59:55

End at: 2018-05-22 16:00:25

Local clock offset: -2.287 ms

Remote clock offset: 8.993 ms

Below is generated by plot.py at 2018-05-22 18:50:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.47 Mbit/s

95th percentile per-packet one-way delay: 103.017 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 42.63 Mbit/s

95th percentile per-packet one-way delay: 101.357 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 23.92 Mbit/s

95th percentile per-packet one-way delay: 107.839 ms

Loss rate: 0.93%

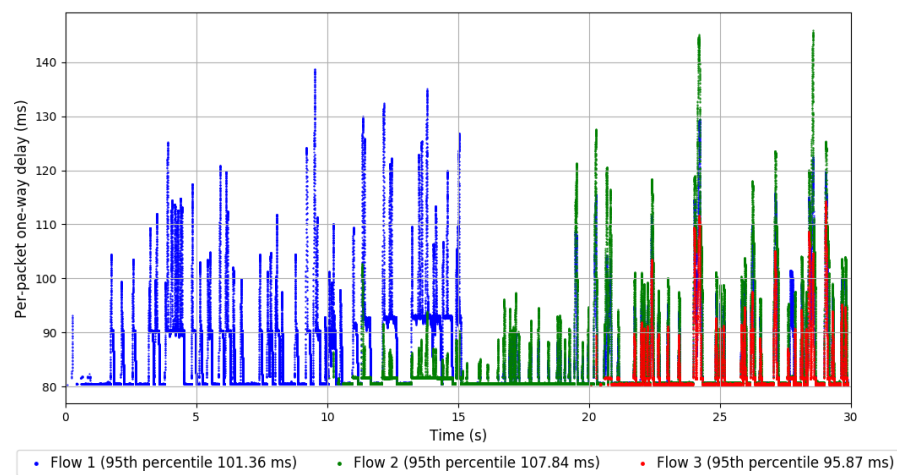
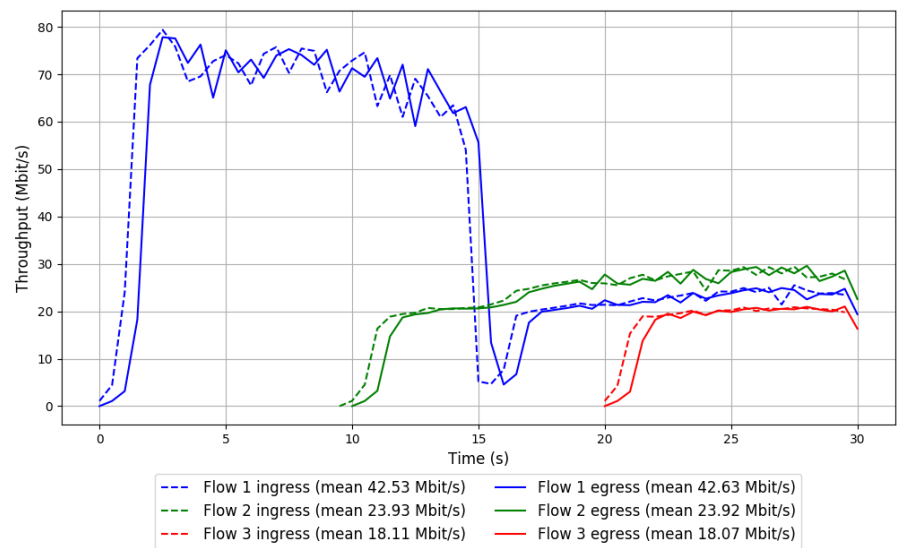
-- Flow 3:

Average throughput: 18.07 Mbit/s

95th percentile per-packet one-way delay: 95.871 ms

Loss rate: 1.90%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-22 16:19:29

End at: 2018-05-22 16:19:59

Local clock offset: -1.548 ms

Remote clock offset: 5.252 ms

Below is generated by plot.py at 2018-05-22 18:50:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.32 Mbit/s

95th percentile per-packet one-way delay: 114.360 ms

Loss rate: 1.94%

-- Flow 1:

Average throughput: 52.18 Mbit/s

95th percentile per-packet one-way delay: 114.121 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 34.79 Mbit/s

95th percentile per-packet one-way delay: 118.710 ms

Loss rate: 2.73%

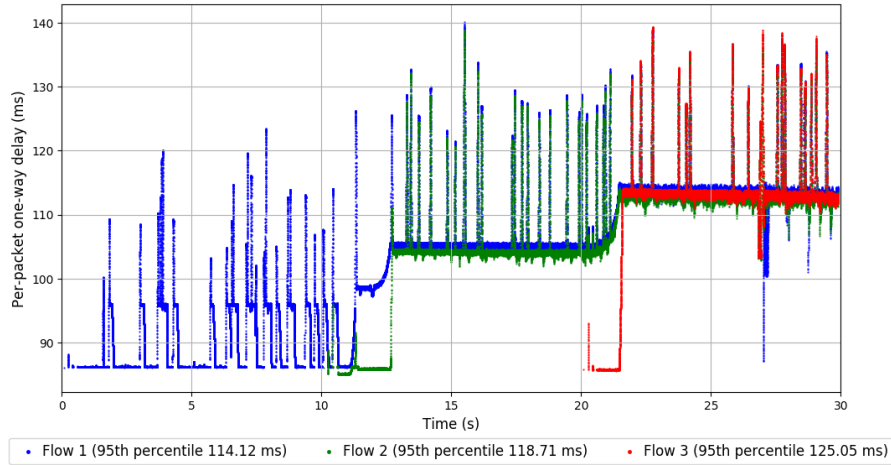
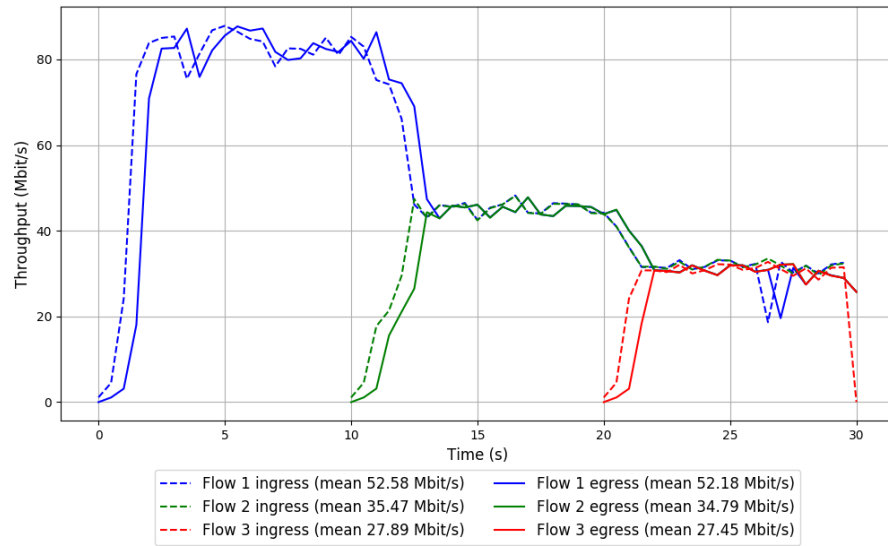
-- Flow 3:

Average throughput: 27.45 Mbit/s

95th percentile per-packet one-way delay: 125.051 ms

Loss rate: 3.40%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-22 16:39:05

End at: 2018-05-22 16:39:35

Local clock offset: -5.623 ms

Remote clock offset: 5.299 ms

Below is generated by plot.py at 2018-05-22 18:50:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.11 Mbit/s

95th percentile per-packet one-way delay: 112.221 ms

Loss rate: 3.18%

-- Flow 1:

Average throughput: 56.07 Mbit/s

95th percentile per-packet one-way delay: 110.444 ms

Loss rate: 2.82%

-- Flow 2:

Average throughput: 38.70 Mbit/s

95th percentile per-packet one-way delay: 111.785 ms

Loss rate: 3.69%

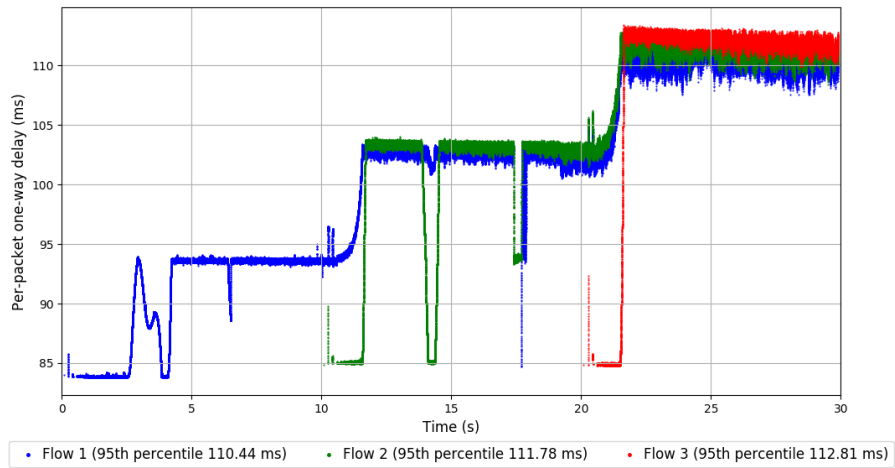
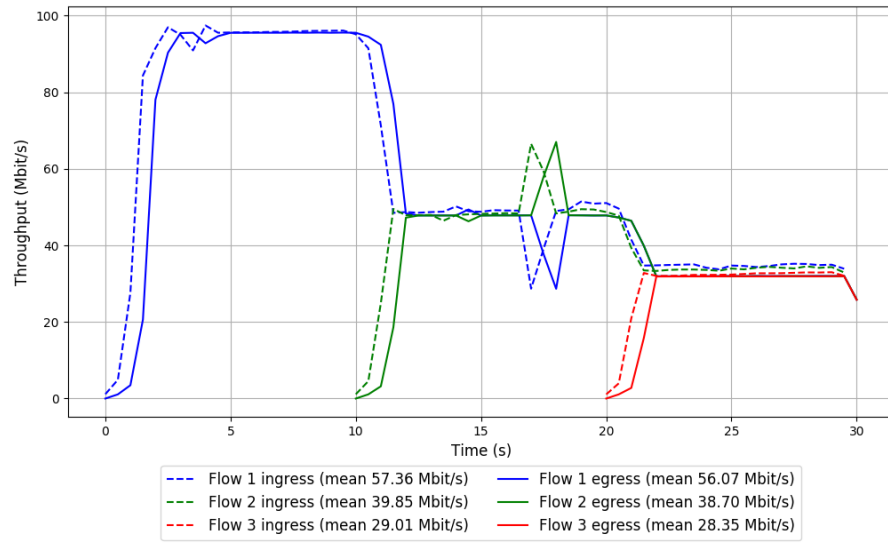
-- Flow 3:

Average throughput: 28.35 Mbit/s

95th percentile per-packet one-way delay: 112.810 ms

Loss rate: 3.91%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-22 16:58:47

End at: 2018-05-22 16:59:17

Local clock offset: -7.893 ms

Remote clock offset: 3.755 ms

Below is generated by plot.py at 2018-05-22 18:50:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.54 Mbit/s

95th percentile per-packet one-way delay: 111.991 ms

Loss rate: 2.14%

-- Flow 1:

Average throughput: 55.50 Mbit/s

95th percentile per-packet one-way delay: 111.452 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 37.01 Mbit/s

95th percentile per-packet one-way delay: 111.911 ms

Loss rate: 3.05%

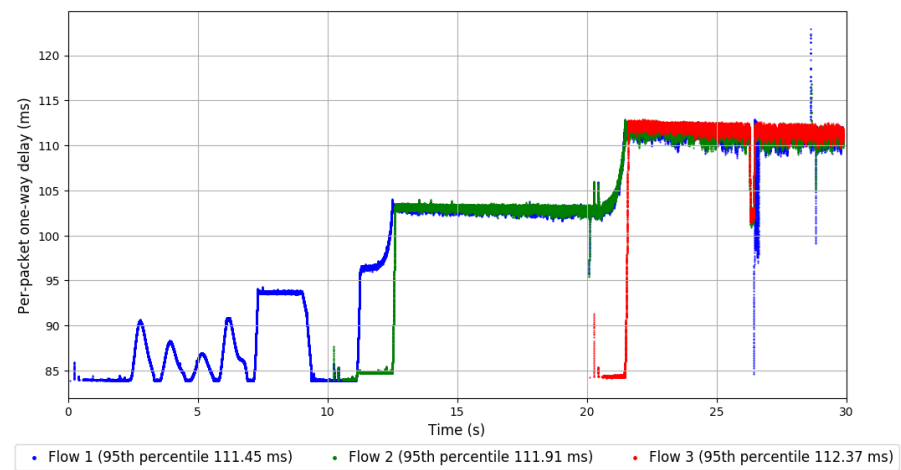
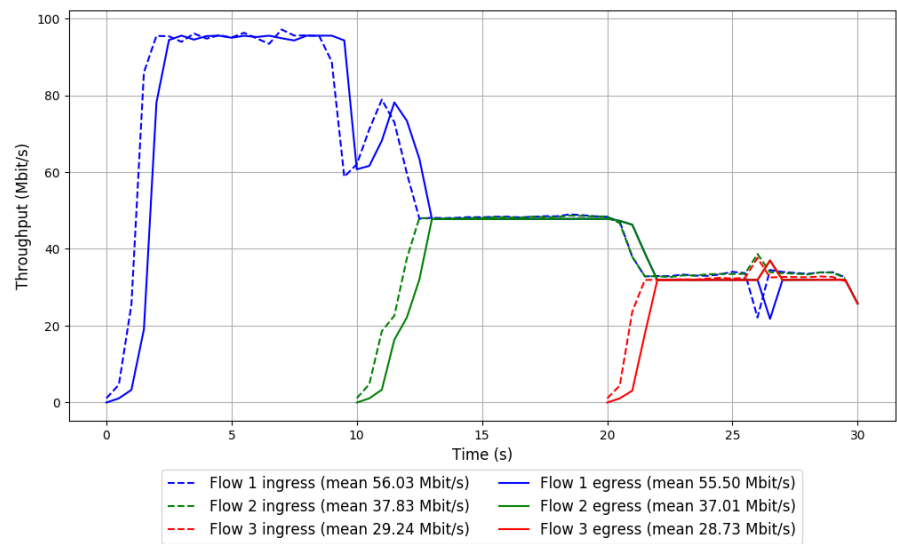
-- Flow 3:

Average throughput: 28.73 Mbit/s

95th percentile per-packet one-way delay: 112.373 ms

Loss rate: 3.52%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-22 17:18:27

End at: 2018-05-22 17:18:57

Local clock offset: -7.077 ms

Remote clock offset: 7.672 ms

Below is generated by plot.py at 2018-05-22 18:50:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.40 Mbit/s

95th percentile per-packet one-way delay: 107.968 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 55.31 Mbit/s

95th percentile per-packet one-way delay: 107.075 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 38.72 Mbit/s

95th percentile per-packet one-way delay: 107.411 ms

Loss rate: 2.95%

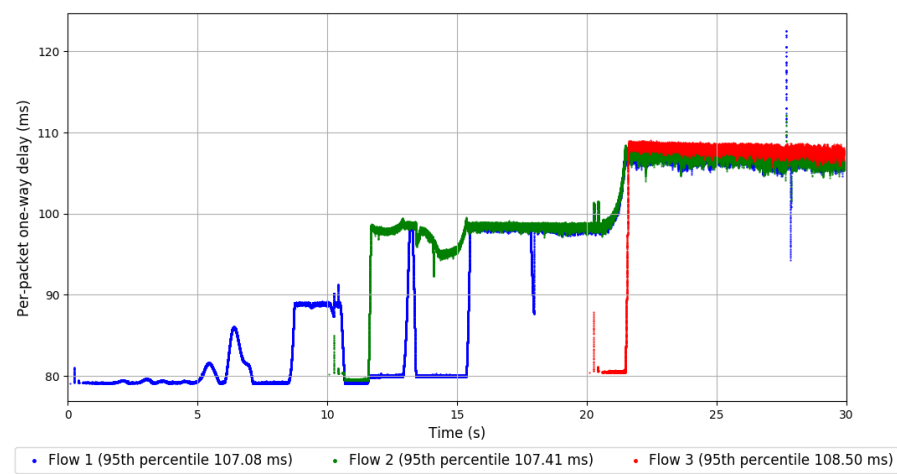
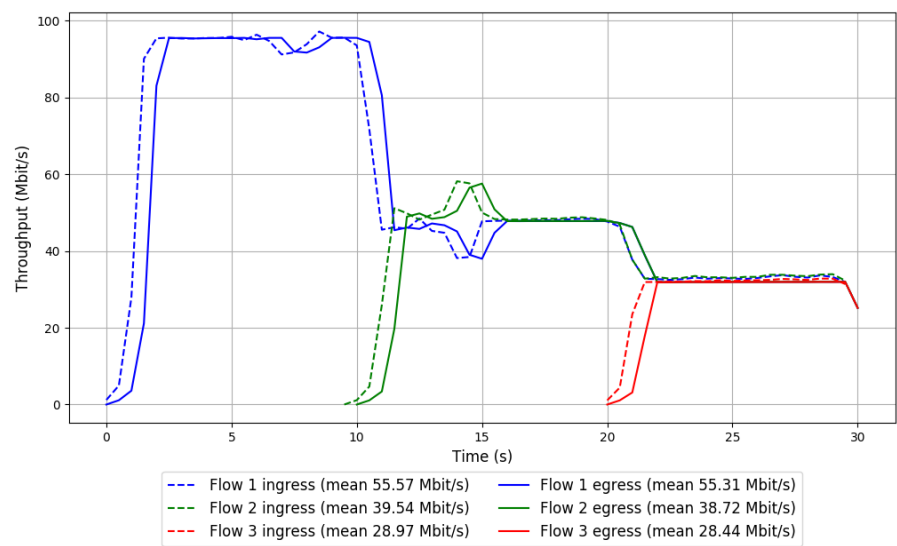
-- Flow 3:

Average throughput: 28.44 Mbit/s

95th percentile per-packet one-way delay: 108.505 ms

Loss rate: 3.43%

Run 6: Report of Copa — Data Link

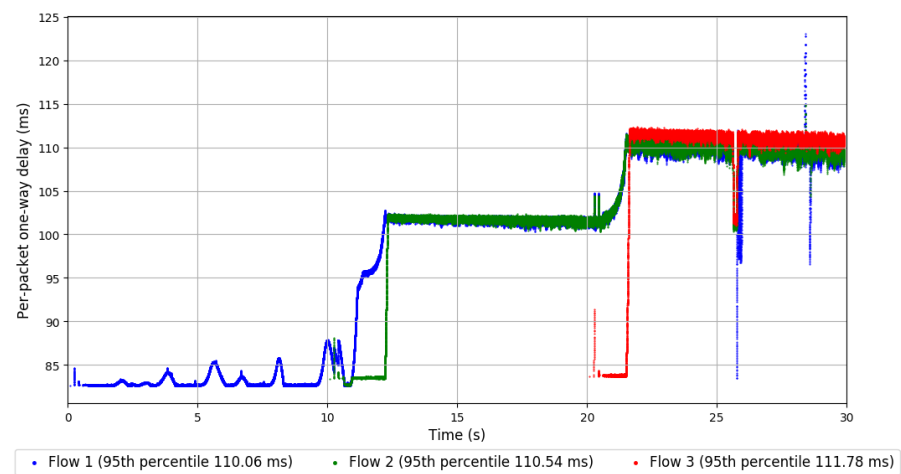
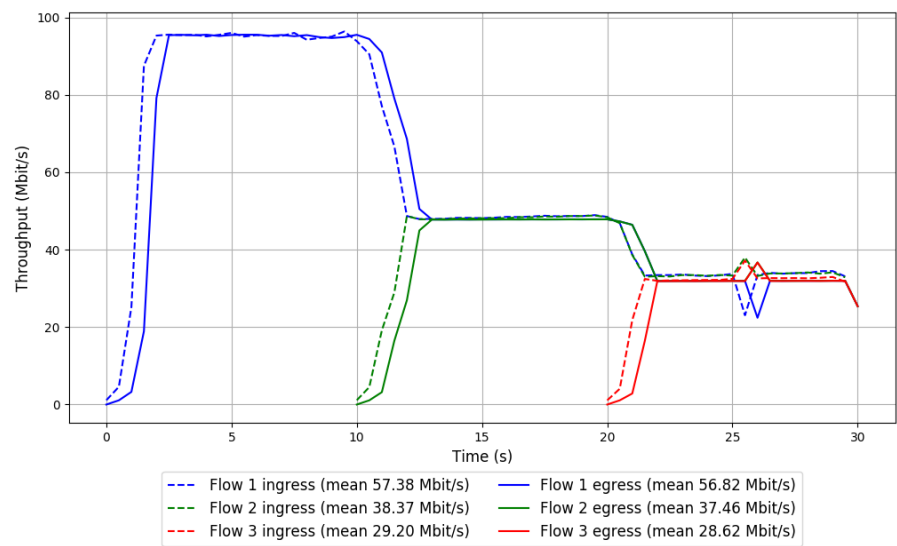


Run 7: Statistics of Copa

Start at: 2018-05-22 17:38:07
End at: 2018-05-22 17:38:37
Local clock offset: -1.098 ms
Remote clock offset: 12.166 ms

```
# Below is generated by plot.py at 2018-05-22 18:51:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.12 Mbit/s
95th percentile per-packet one-way delay: 111.199 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 56.82 Mbit/s
95th percentile per-packet one-way delay: 110.058 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 37.46 Mbit/s
95th percentile per-packet one-way delay: 110.542 ms
Loss rate: 3.26%
-- Flow 3:
Average throughput: 28.62 Mbit/s
95th percentile per-packet one-way delay: 111.776 ms
Loss rate: 3.62%
```


Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-22 17:57:48

End at: 2018-05-22 17:58:18

Local clock offset: 0.371 ms

Remote clock offset: 12.21 ms

Below is generated by plot.py at 2018-05-22 18:51:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.09 Mbit/s

95th percentile per-packet one-way delay: 113.409 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 56.50 Mbit/s

95th percentile per-packet one-way delay: 112.769 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 111.294 ms

Loss rate: 3.43%

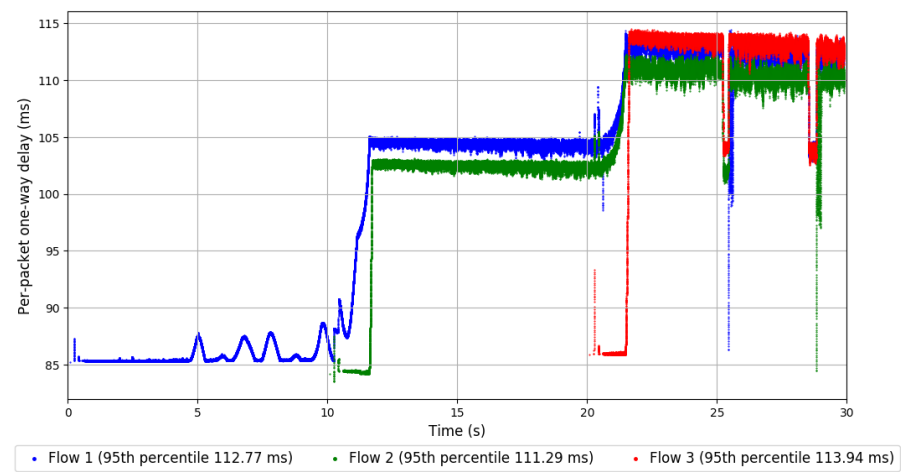
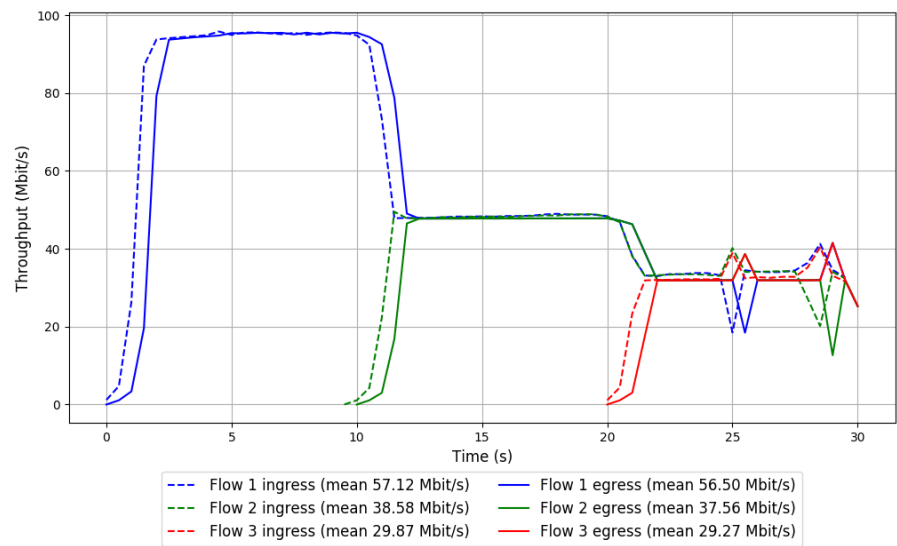
-- Flow 3:

Average throughput: 29.27 Mbit/s

95th percentile per-packet one-way delay: 113.942 ms

Loss rate: 3.78%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-22 18:17:28

End at: 2018-05-22 18:17:58

Local clock offset: -1.342 ms

Remote clock offset: 7.19 ms

Below is generated by plot.py at 2018-05-22 18:52:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.04 Mbit/s

95th percentile per-packet one-way delay: 108.388 ms

Loss rate: 2.31%

-- Flow 1:

Average throughput: 56.49 Mbit/s

95th percentile per-packet one-way delay: 108.619 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 37.51 Mbit/s

95th percentile per-packet one-way delay: 107.388 ms

Loss rate: 3.25%

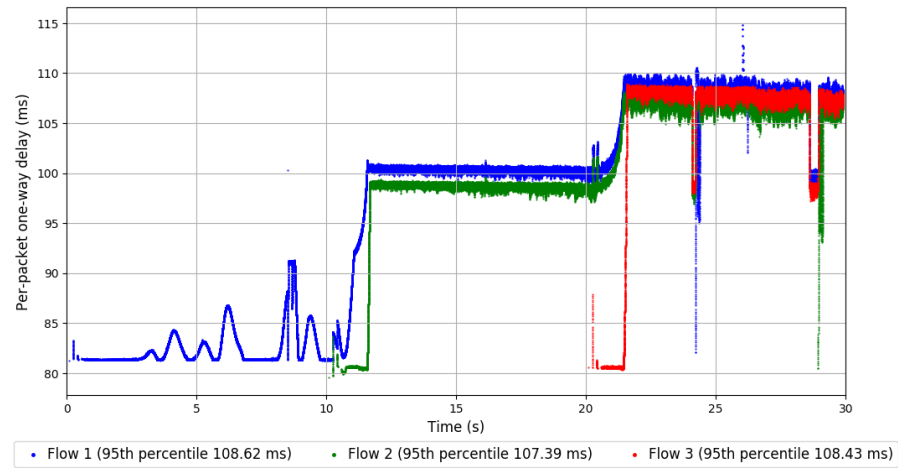
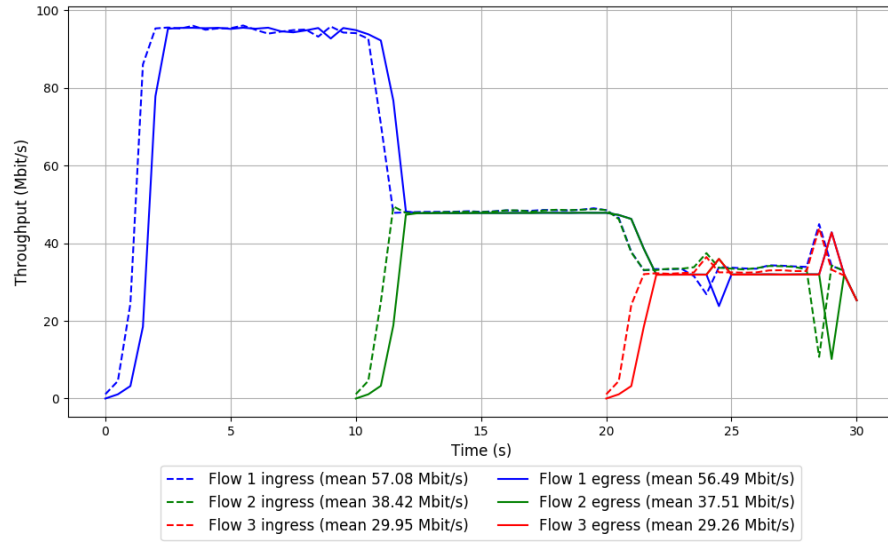
-- Flow 3:

Average throughput: 29.26 Mbit/s

95th percentile per-packet one-way delay: 108.429 ms

Loss rate: 4.03%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-22 18:37:08

End at: 2018-05-22 18:37:38

Local clock offset: -1.601 ms

Remote clock offset: 2.074 ms

Below is generated by plot.py at 2018-05-22 18:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 112.827 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 58.71 Mbit/s

95th percentile per-packet one-way delay: 112.483 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 33.68 Mbit/s

95th percentile per-packet one-way delay: 103.141 ms

Loss rate: 0.76%

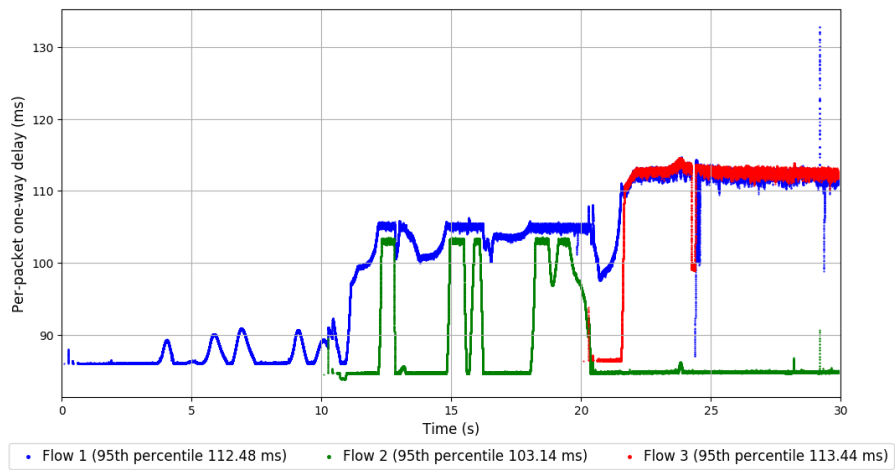
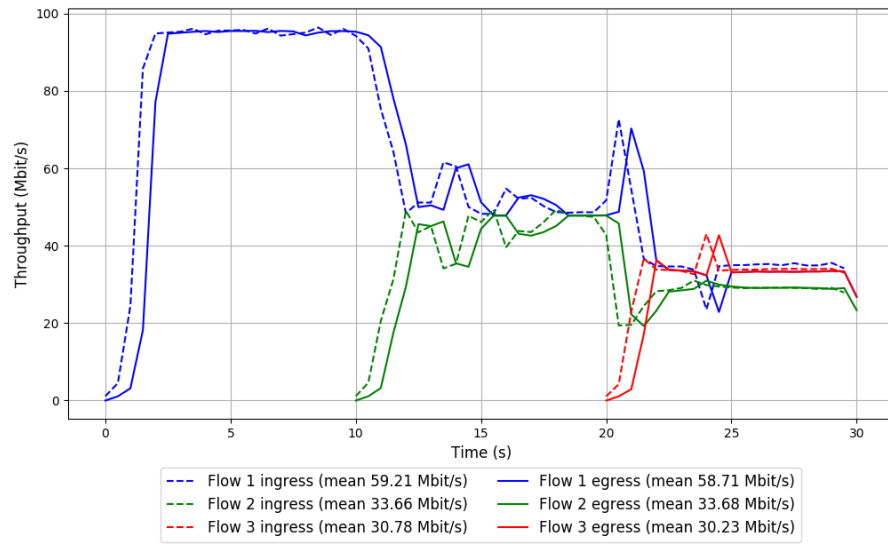
-- Flow 3:

Average throughput: 30.23 Mbit/s

95th percentile per-packet one-way delay: 113.442 ms

Loss rate: 3.42%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-22 15:33:08

End at: 2018-05-22 15:33:38

Local clock offset: -2.196 ms

Remote clock offset: 2.459 ms

Below is generated by plot.py at 2018-05-22 18:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.90 Mbit/s

95th percentile per-packet one-way delay: 92.872 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 47.96 Mbit/s

95th percentile per-packet one-way delay: 92.237 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 32.25 Mbit/s

95th percentile per-packet one-way delay: 96.522 ms

Loss rate: 0.69%

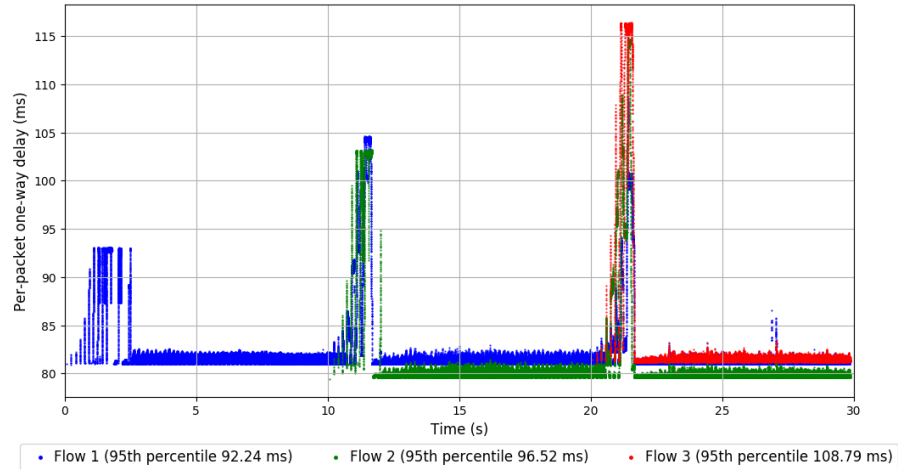
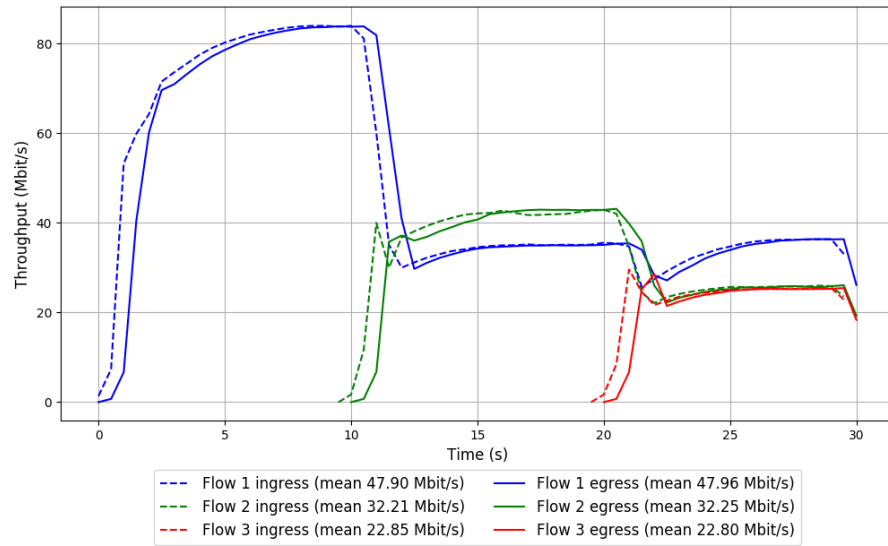
-- Flow 3:

Average throughput: 22.80 Mbit/s

95th percentile per-packet one-way delay: 108.793 ms

Loss rate: 1.87%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-22 15:52:46

End at: 2018-05-22 15:53:16

Local clock offset: -1.446 ms

Remote clock offset: 6.35 ms

Below is generated by plot.py at 2018-05-22 18:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.89 Mbit/s

95th percentile per-packet one-way delay: 102.055 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 35.81 Mbit/s

95th percentile per-packet one-way delay: 96.596 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 26.40 Mbit/s

95th percentile per-packet one-way delay: 105.388 ms

Loss rate: 0.59%

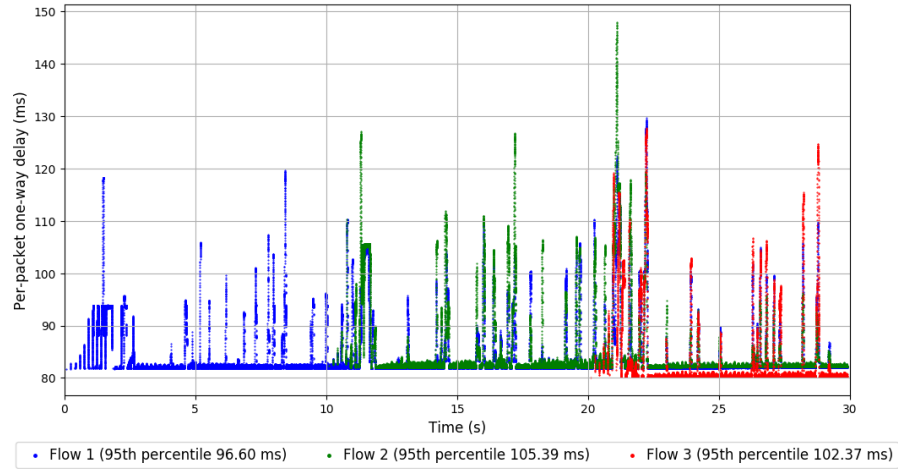
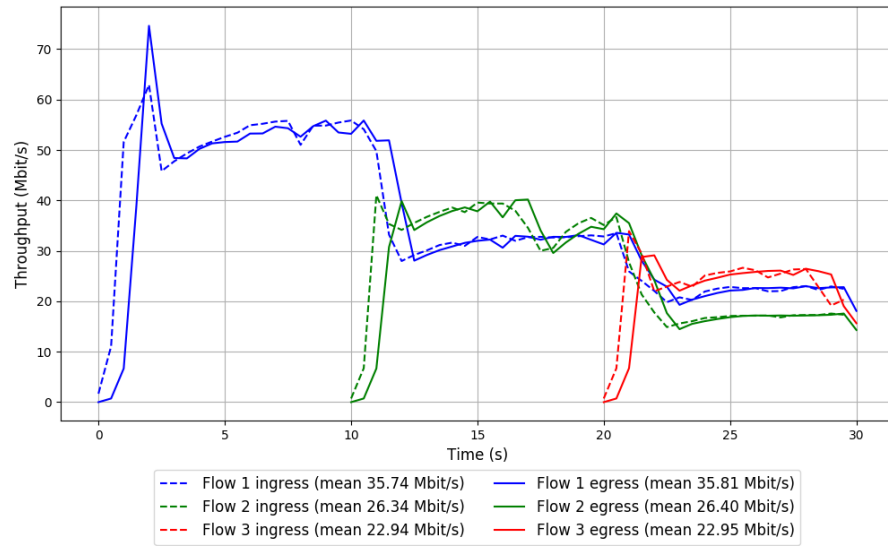
-- Flow 3:

Average throughput: 22.95 Mbit/s

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

Loss rate: 1.54%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-22 16:12:20

End at: 2018-05-22 16:12:50

Local clock offset: -3.213 ms

Remote clock offset: 10.55 ms

Below is generated by plot.py at 2018-05-22 18:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.78 Mbit/s

95th percentile per-packet one-way delay: 100.364 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 37.46 Mbit/s

95th percentile per-packet one-way delay: 96.216 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 25.04 Mbit/s

95th percentile per-packet one-way delay: 100.938 ms

Loss rate: 0.67%

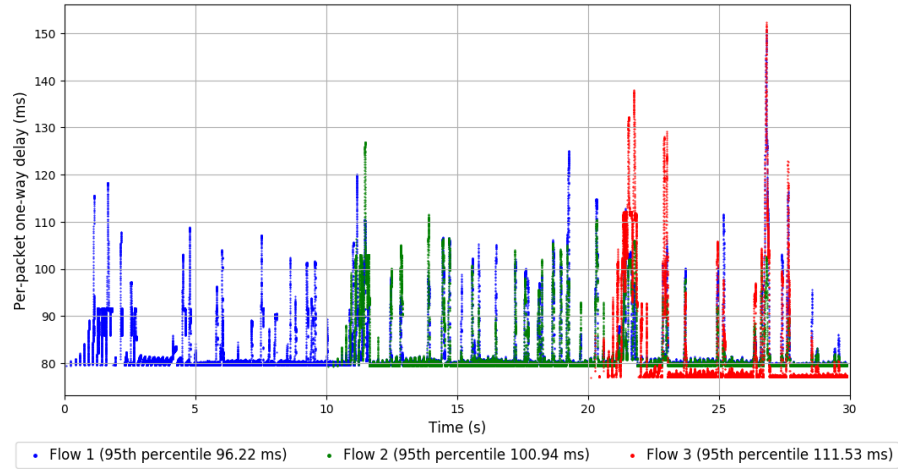
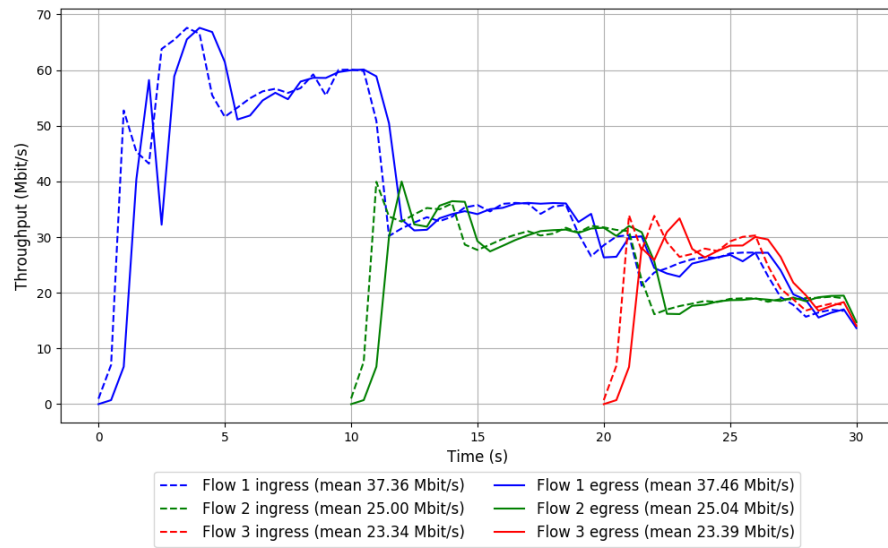
-- Flow 3:

Average throughput: 23.39 Mbit/s

95th percentile per-packet one-way delay: 111.535 ms

Loss rate: 1.41%

Run 3: Report of TCP Cubic — Data Link

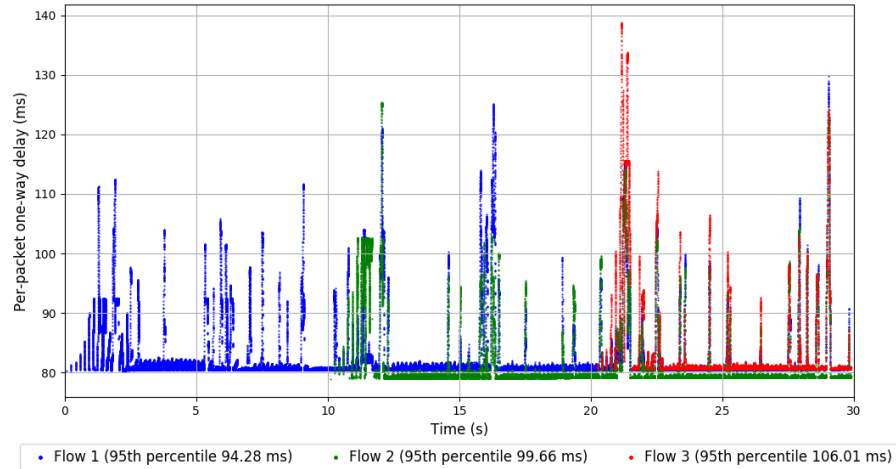
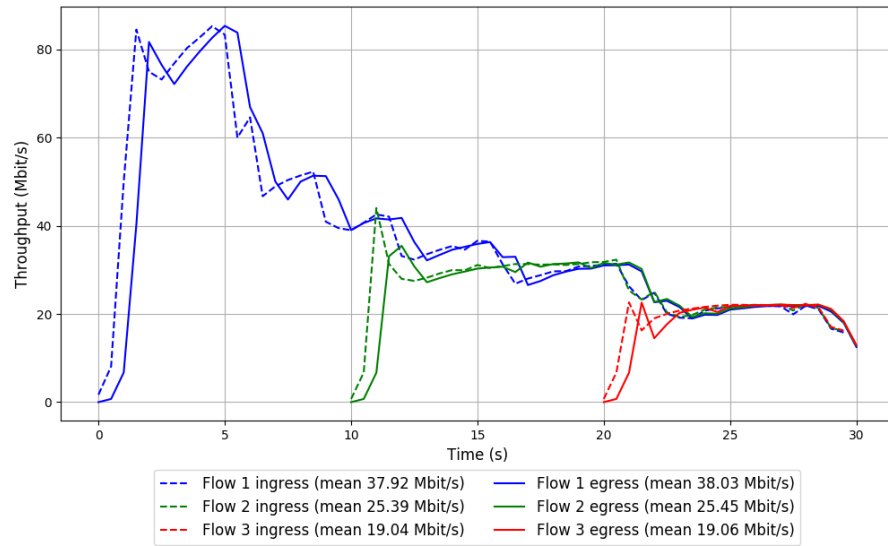


Run 4: Statistics of TCP Cubic

Start at: 2018-05-22 16:31:57
End at: 2018-05-22 16:32:27
Local clock offset: -4.706 ms
Remote clock offset: 10.022 ms

Below is generated by plot.py at 2018-05-22 18:52:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.19 Mbit/s
95th percentile per-packet one-way delay: 97.622 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 38.03 Mbit/s
95th percentile per-packet one-way delay: 94.281 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 25.45 Mbit/s
95th percentile per-packet one-way delay: 99.657 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 19.06 Mbit/s
95th percentile per-packet one-way delay: 106.008 ms
Loss rate: 1.55%

Run 4: Report of TCP Cubic — Data Link

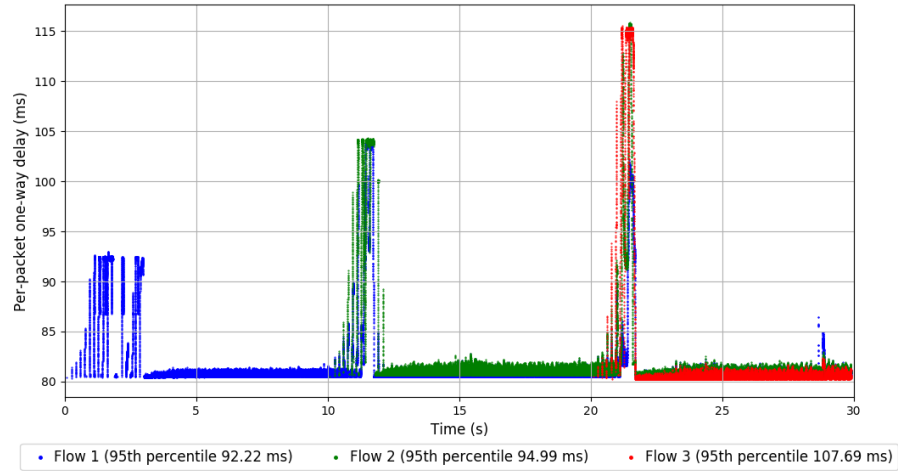
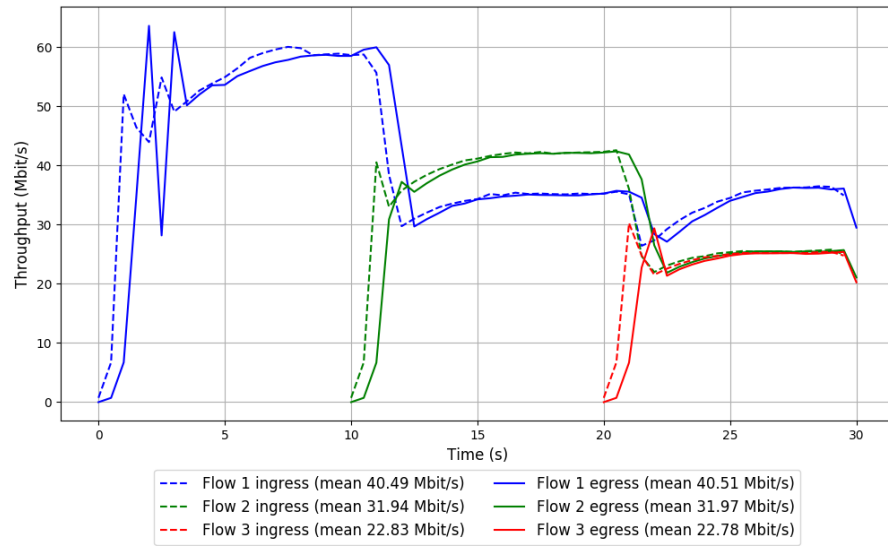


Run 5: Statistics of TCP Cubic

Start at: 2018-05-22 16:51:37
End at: 2018-05-22 16:52:07
Local clock offset: -7.82 ms
Remote clock offset: 10.005 ms

Below is generated by plot.py at 2018-05-22 18:52:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.24 Mbit/s
95th percentile per-packet one-way delay: 92.313 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 40.51 Mbit/s
95th percentile per-packet one-way delay: 92.217 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 94.988 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 22.78 Mbit/s
95th percentile per-packet one-way delay: 107.685 ms
Loss rate: 1.88%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-22 17:11:16

End at: 2018-05-22 17:11:46

Local clock offset: -7.027 ms

Remote clock offset: 6.883 ms

Below is generated by plot.py at 2018-05-22 18:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.26 Mbit/s

95th percentile per-packet one-way delay: 93.535 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 51.25 Mbit/s

95th percentile per-packet one-way delay: 93.498 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 31.71 Mbit/s

95th percentile per-packet one-way delay: 94.490 ms

Loss rate: 0.70%

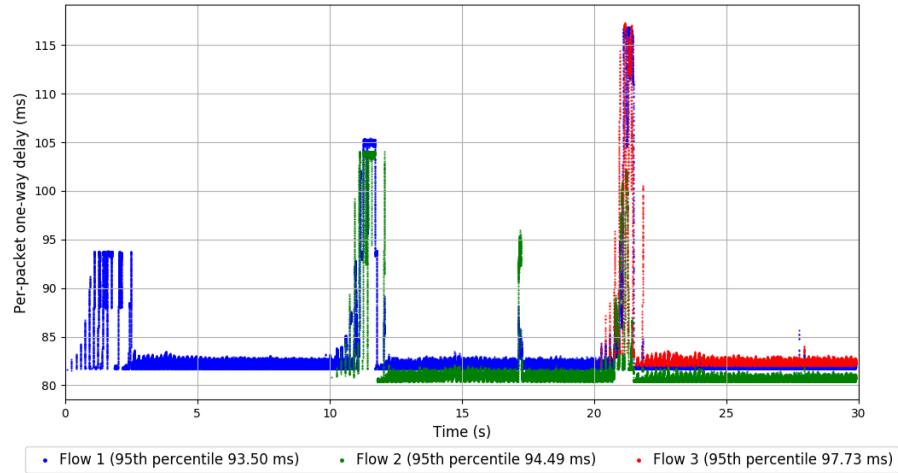
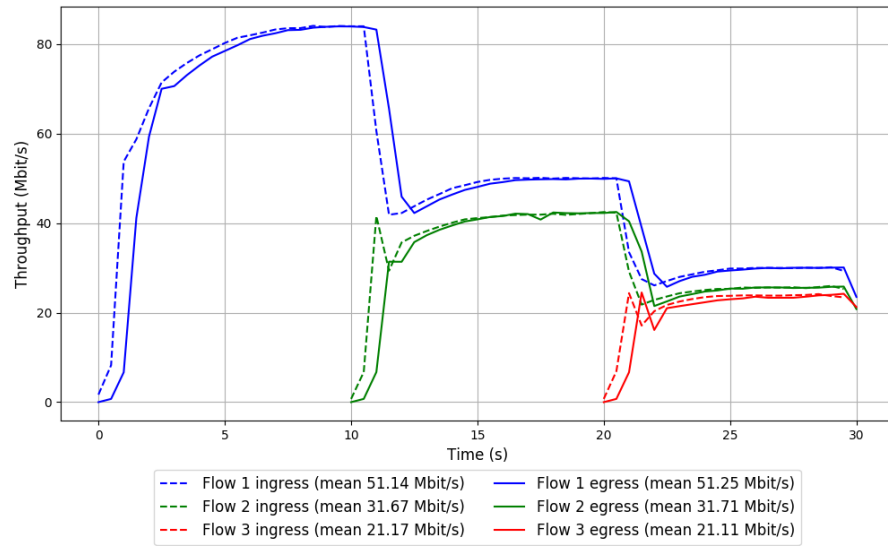
-- Flow 3:

Average throughput: 21.11 Mbit/s

95th percentile per-packet one-way delay: 97.727 ms

Loss rate: 1.90%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-22 17:30:56

End at: 2018-05-22 17:31:26

Local clock offset: -4.51 ms

Remote clock offset: 10.21 ms

Below is generated by plot.py at 2018-05-22 18:52:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.73 Mbit/s

95th percentile per-packet one-way delay: 91.377 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 53.38 Mbit/s

95th percentile per-packet one-way delay: 91.406 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 38.27 Mbit/s

95th percentile per-packet one-way delay: 88.793 ms

Loss rate: 0.93%

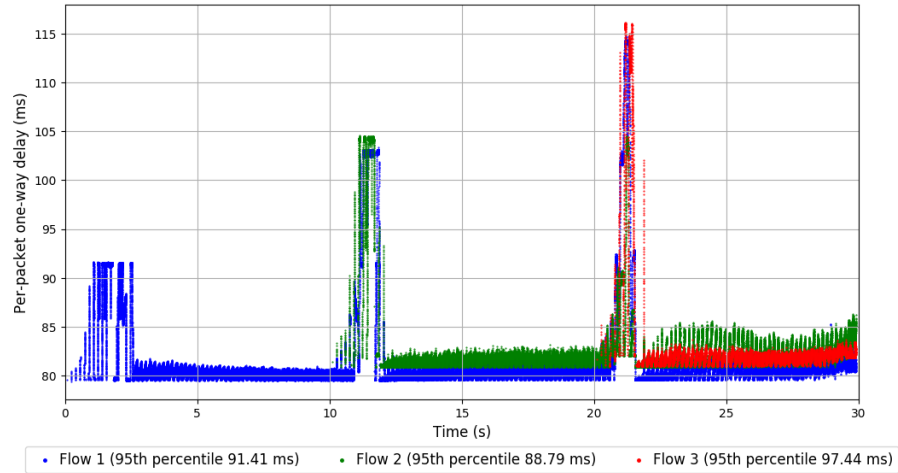
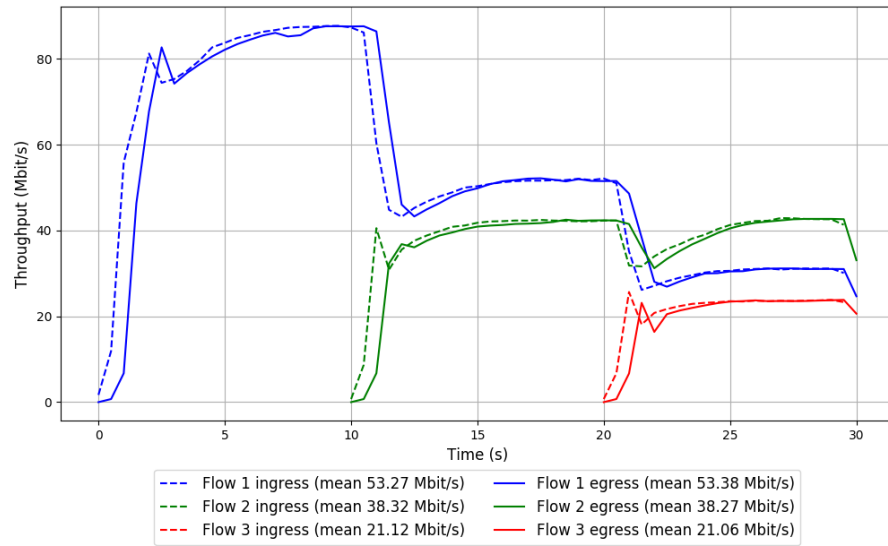
-- Flow 3:

Average throughput: 21.06 Mbit/s

95th percentile per-packet one-way delay: 97.437 ms

Loss rate: 1.94%

Run 7: Report of TCP Cubic — Data Link

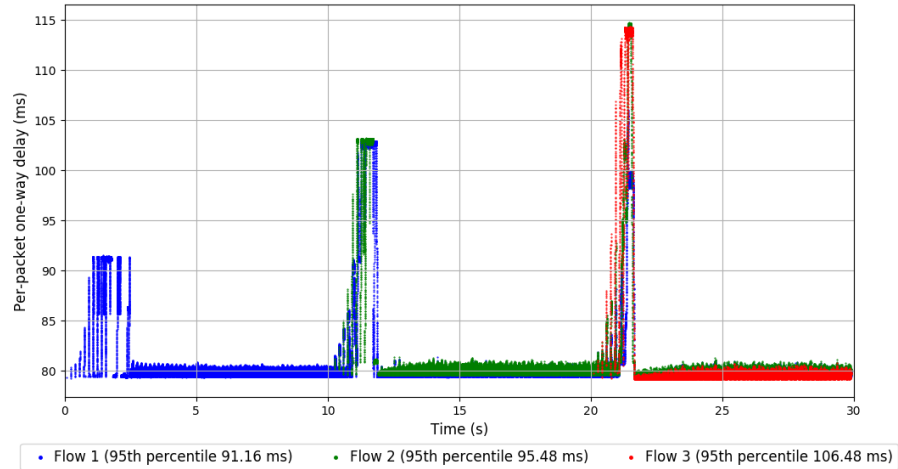
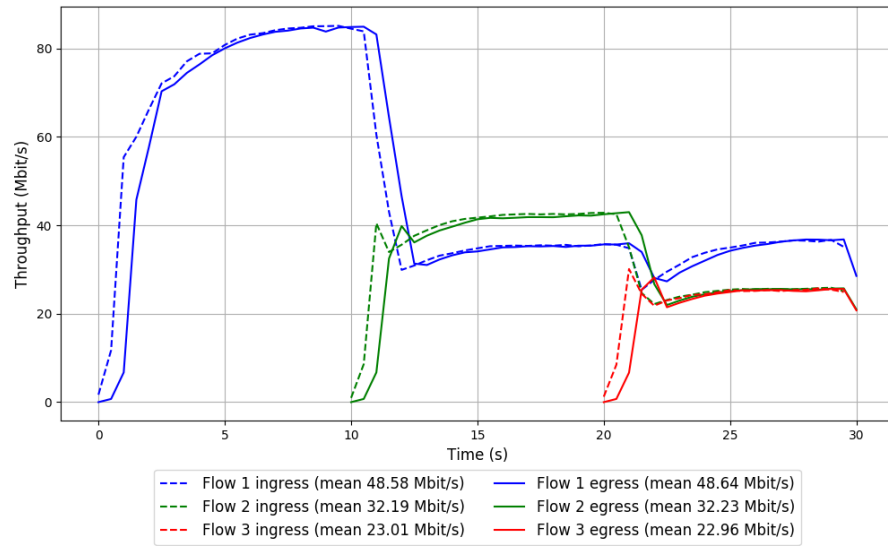


Run 8: Statistics of TCP Cubic

Start at: 2018-05-22 17:50:38
End at: 2018-05-22 17:51:08
Local clock offset: 0.916 ms
Remote clock offset: 16.167 ms

```
# Below is generated by plot.py at 2018-05-22 18:52:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.60 Mbit/s
95th percentile per-packet one-way delay: 91.234 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 48.64 Mbit/s
95th percentile per-packet one-way delay: 91.162 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 32.23 Mbit/s
95th percentile per-packet one-way delay: 95.477 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 22.96 Mbit/s
95th percentile per-packet one-way delay: 106.477 ms
Loss rate: 1.85%
```

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-22 18:10:18

End at: 2018-05-22 18:10:48

Local clock offset: -1.142 ms

Remote clock offset: 9.331 ms

Below is generated by plot.py at 2018-05-22 18:52:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.54 Mbit/s

95th percentile per-packet one-way delay: 93.090 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 45.76 Mbit/s

95th percentile per-packet one-way delay: 93.009 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 31.78 Mbit/s

95th percentile per-packet one-way delay: 95.261 ms

Loss rate: 0.69%

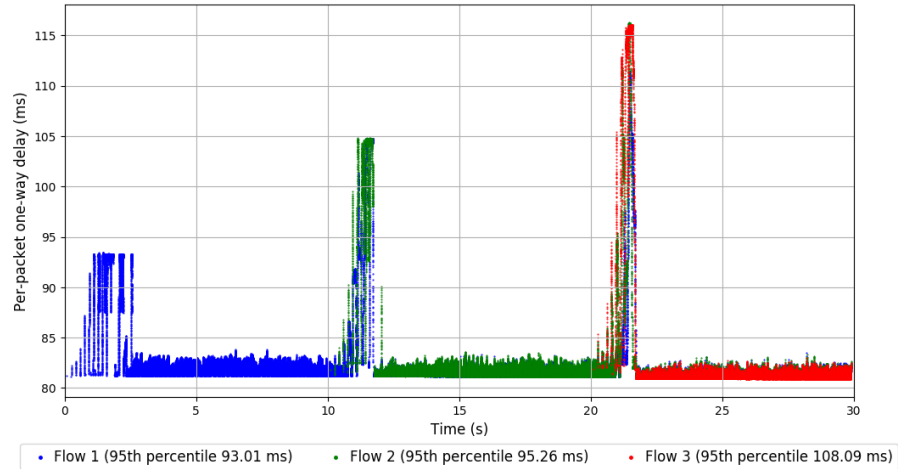
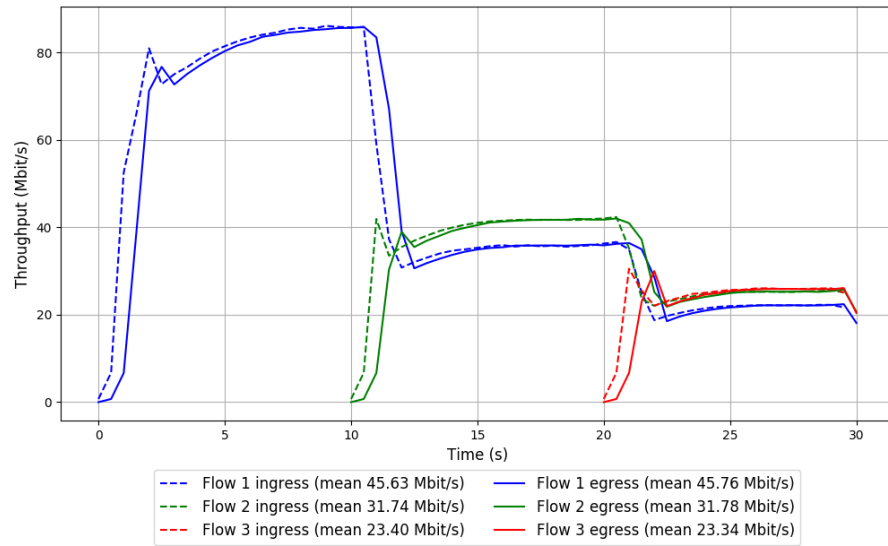
-- Flow 3:

Average throughput: 23.34 Mbit/s

95th percentile per-packet one-way delay: 108.090 ms

Loss rate: 1.89%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-22 18:29:58

End at: 2018-05-22 18:30:28

Local clock offset: -1.754 ms

Remote clock offset: 5.512 ms

Below is generated by plot.py at 2018-05-22 18:52:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.96 Mbit/s

95th percentile per-packet one-way delay: 93.159 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 37.09 Mbit/s

95th percentile per-packet one-way delay: 93.055 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 33.67 Mbit/s

95th percentile per-packet one-way delay: 97.179 ms

Loss rate: 0.69%

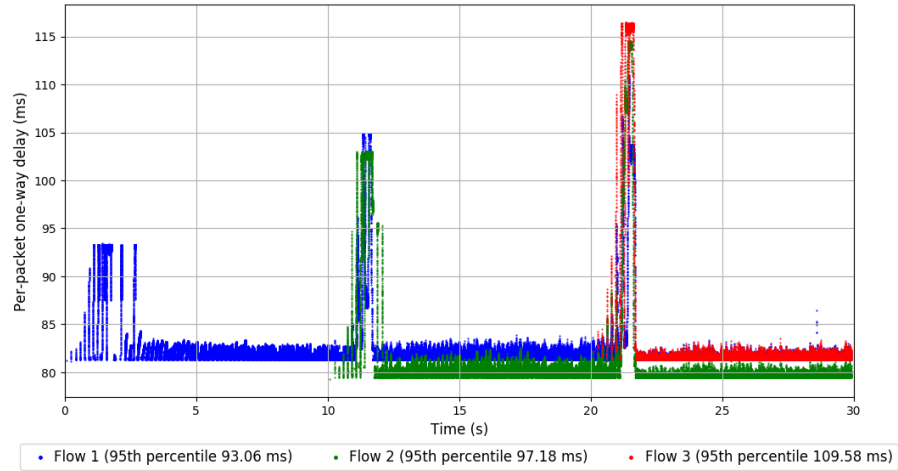
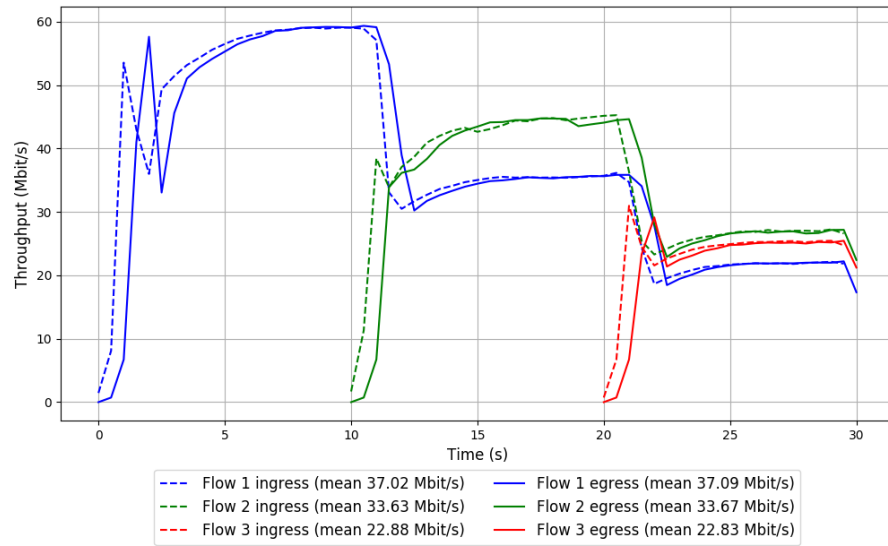
-- Flow 3:

Average throughput: 22.83 Mbit/s

95th percentile per-packet one-way delay: 109.581 ms

Loss rate: 1.88%

Run 10: Report of TCP Cubic — Data Link

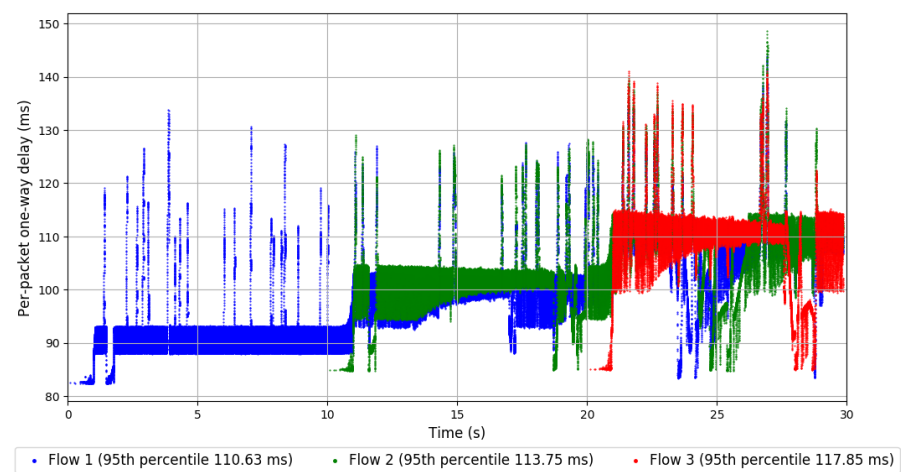
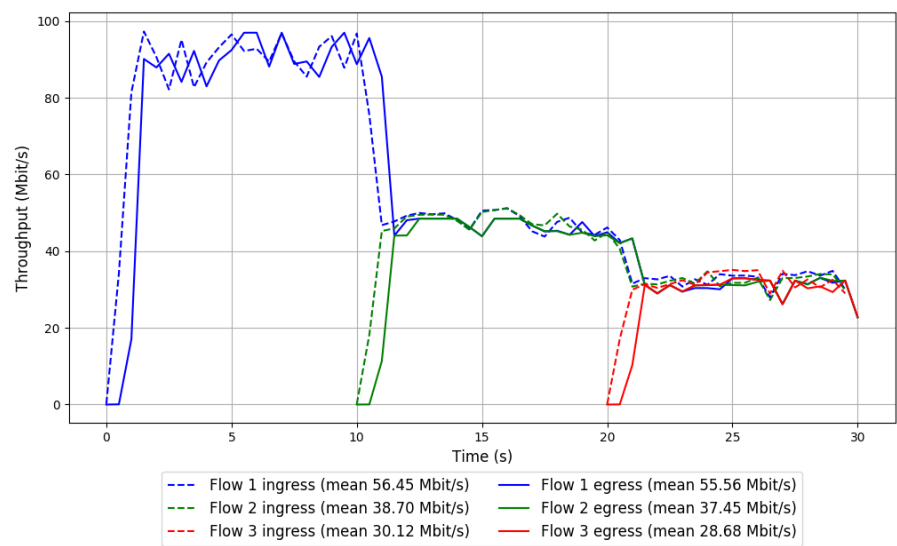


Run 1: Statistics of FillP

Start at: 2018-05-22 15:42:53
End at: 2018-05-22 15:43:23
Local clock offset: -3.117 ms
Remote clock offset: -1.803 ms

Below is generated by plot.py at 2018-05-22 18:53:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.80 Mbit/s
95th percentile per-packet one-way delay: 112.923 ms
Loss rate: 3.13%
-- Flow 1:
Average throughput: 55.56 Mbit/s
95th percentile per-packet one-way delay: 110.631 ms
Loss rate: 2.12%
-- Flow 2:
Average throughput: 37.45 Mbit/s
95th percentile per-packet one-way delay: 113.754 ms
Loss rate: 4.08%
-- Flow 3:
Average throughput: 28.68 Mbit/s
95th percentile per-packet one-way delay: 117.847 ms
Loss rate: 6.36%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-22 16:02:28

End at: 2018-05-22 16:02:58

Local clock offset: -3.163 ms

Remote clock offset: 3.909 ms

Below is generated by plot.py at 2018-05-22 18:53:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.43 Mbit/s

95th percentile per-packet one-way delay: 117.842 ms

Loss rate: 3.73%

-- Flow 1:

Average throughput: 53.59 Mbit/s

95th percentile per-packet one-way delay: 112.694 ms

Loss rate: 2.34%

-- Flow 2:

Average throughput: 36.06 Mbit/s

95th percentile per-packet one-way delay: 120.748 ms

Loss rate: 5.42%

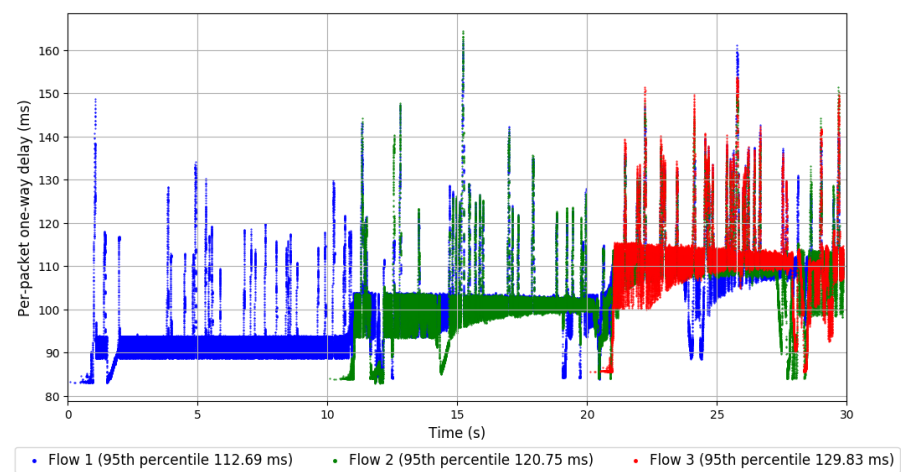
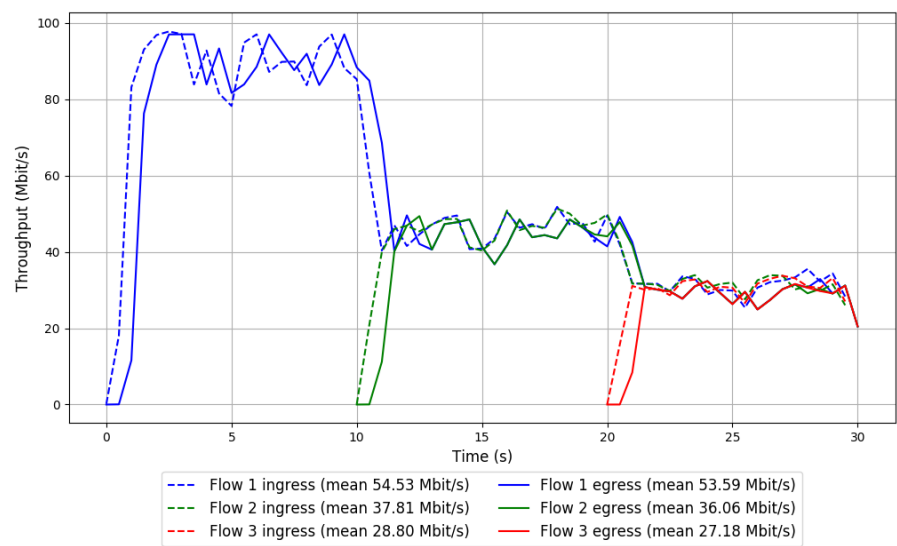
-- Flow 3:

Average throughput: 27.18 Mbit/s

95th percentile per-packet one-way delay: 129.828 ms

Loss rate: 7.23%

Run 2: Report of FillP — Data Link

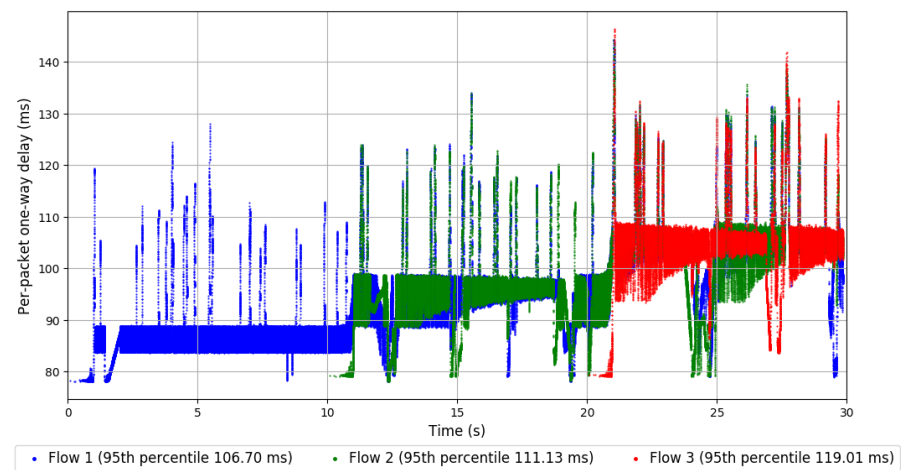
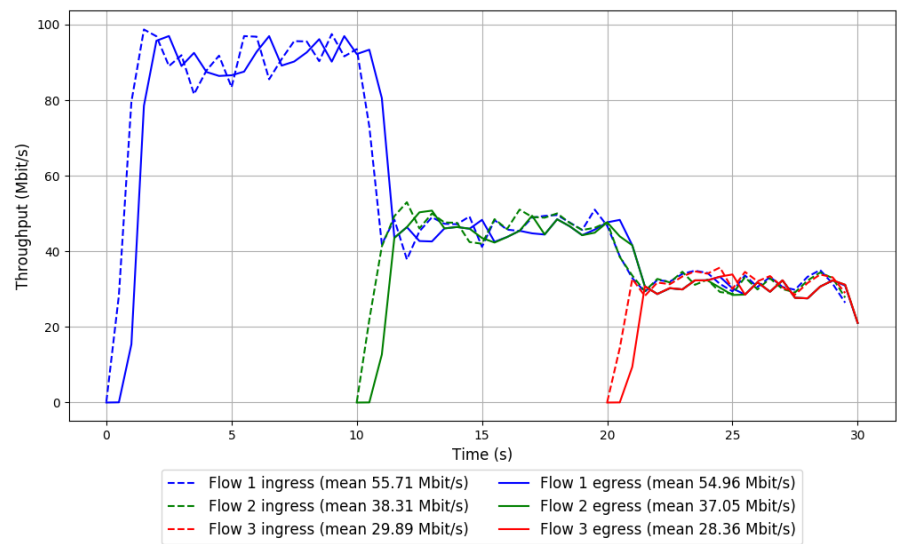


Run 3: Statistics of FillP

Start at: 2018-05-22 16:22:04
End at: 2018-05-22 16:22:34
Local clock offset: -2.274 ms
Remote clock offset: 10.492 ms

Below is generated by plot.py at 2018-05-22 18:53:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.85 Mbit/s
95th percentile per-packet one-way delay: 107.911 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 54.96 Mbit/s
95th percentile per-packet one-way delay: 106.701 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 37.05 Mbit/s
95th percentile per-packet one-way delay: 111.127 ms
Loss rate: 4.08%
-- Flow 3:
Average throughput: 28.36 Mbit/s
95th percentile per-packet one-way delay: 119.008 ms
Loss rate: 6.71%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-22 16:41:41

End at: 2018-05-22 16:42:11

Local clock offset: -6.836 ms

Remote clock offset: 9.114 ms

Below is generated by plot.py at 2018-05-22 18:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.94 Mbit/s

95th percentile per-packet one-way delay: 107.735 ms

Loss rate: 2.25%

-- Flow 1:

Average throughput: 58.31 Mbit/s

95th percentile per-packet one-way delay: 106.702 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 39.05 Mbit/s

95th percentile per-packet one-way delay: 107.893 ms

Loss rate: 2.91%

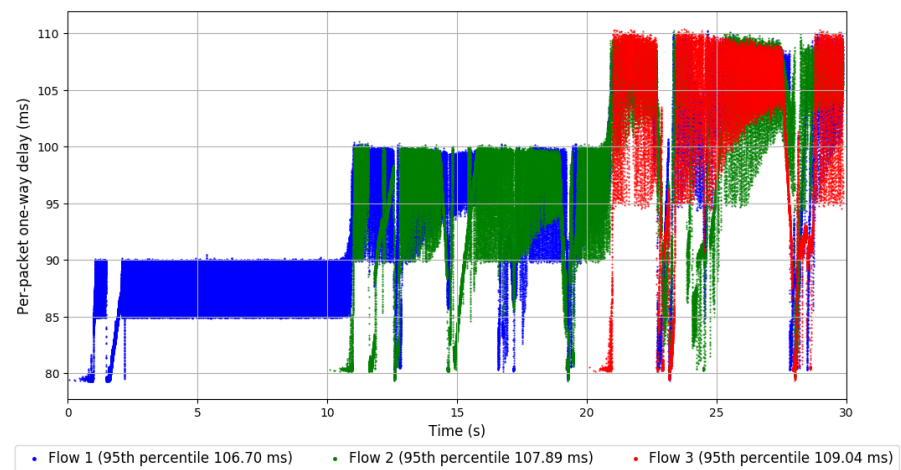
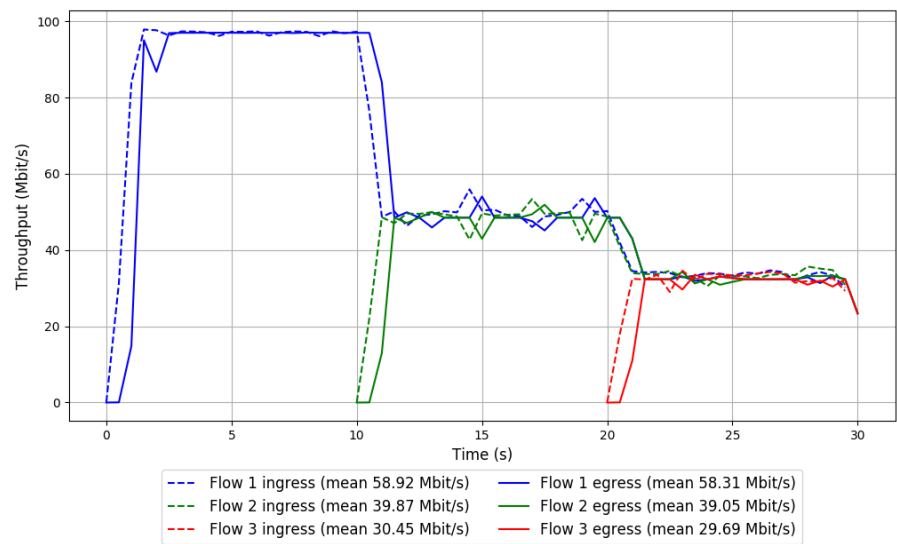
-- Flow 3:

Average throughput: 29.69 Mbit/s

95th percentile per-packet one-way delay: 109.037 ms

Loss rate: 4.18%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-22 17:01:22

End at: 2018-05-22 17:01:52

Local clock offset: -8.351 ms

Remote clock offset: 8.13 ms

Below is generated by plot.py at 2018-05-22 18:53:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.83 Mbit/s

95th percentile per-packet one-way delay: 107.887 ms

Loss rate: 2.28%

-- Flow 1:

Average throughput: 58.32 Mbit/s

95th percentile per-packet one-way delay: 105.934 ms

Loss rate: 1.43%

-- Flow 2:

Average throughput: 38.82 Mbit/s

95th percentile per-packet one-way delay: 108.390 ms

Loss rate: 3.37%

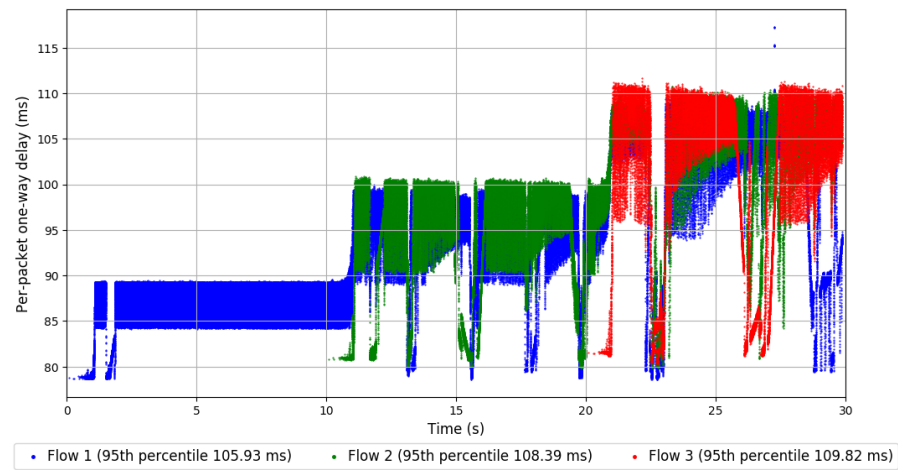
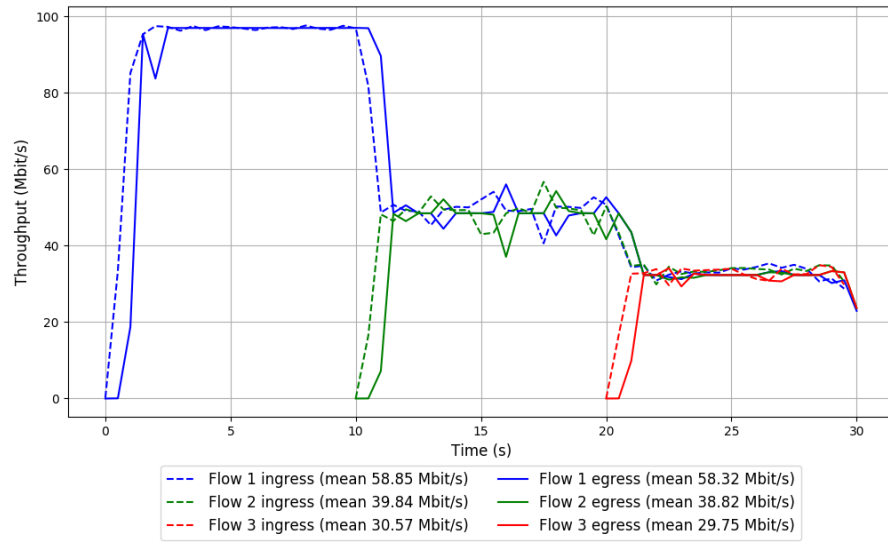
-- Flow 3:

Average throughput: 29.75 Mbit/s

95th percentile per-packet one-way delay: 109.818 ms

Loss rate: 4.36%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-22 17:21:02

End at: 2018-05-22 17:21:32

Local clock offset: -7.872 ms

Remote clock offset: 2.967 ms

Below is generated by plot.py at 2018-05-22 18:53:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 112.007 ms

Loss rate: 2.66%

-- Flow 1:

Average throughput: 58.15 Mbit/s

95th percentile per-packet one-way delay: 110.730 ms

Loss rate: 1.65%

-- Flow 2:

Average throughput: 39.17 Mbit/s

95th percentile per-packet one-way delay: 113.101 ms

Loss rate: 3.94%

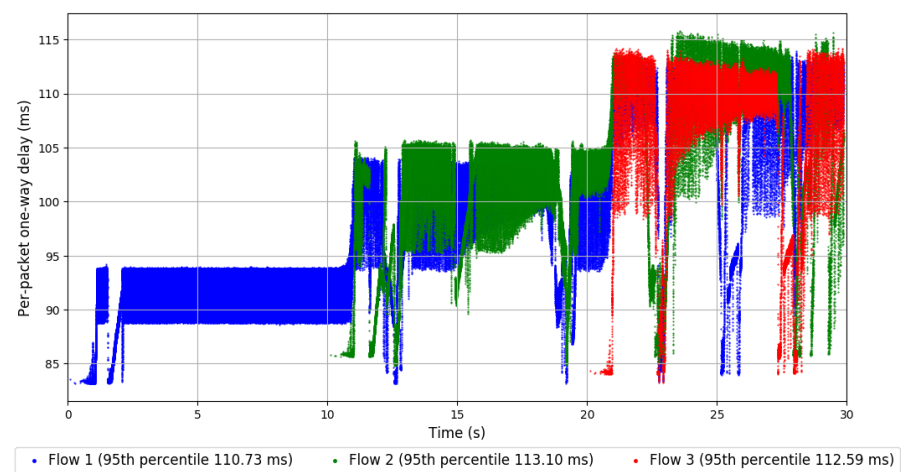
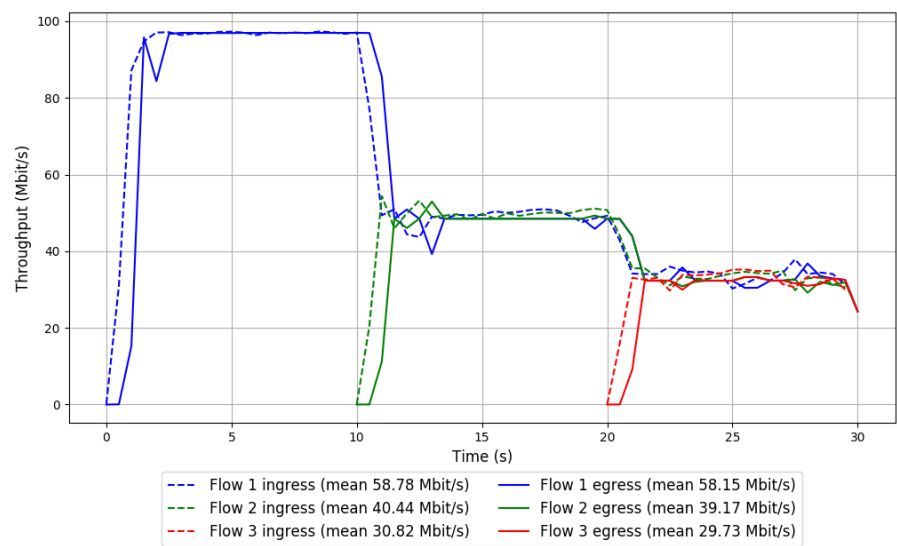
-- Flow 3:

Average throughput: 29.73 Mbit/s

95th percentile per-packet one-way delay: 112.591 ms

Loss rate: 5.11%

Run 6: Report of FillP — Data Link

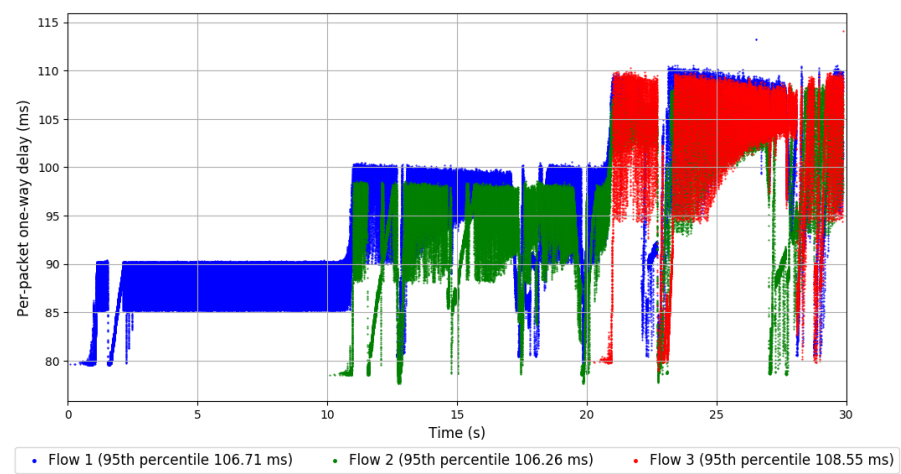
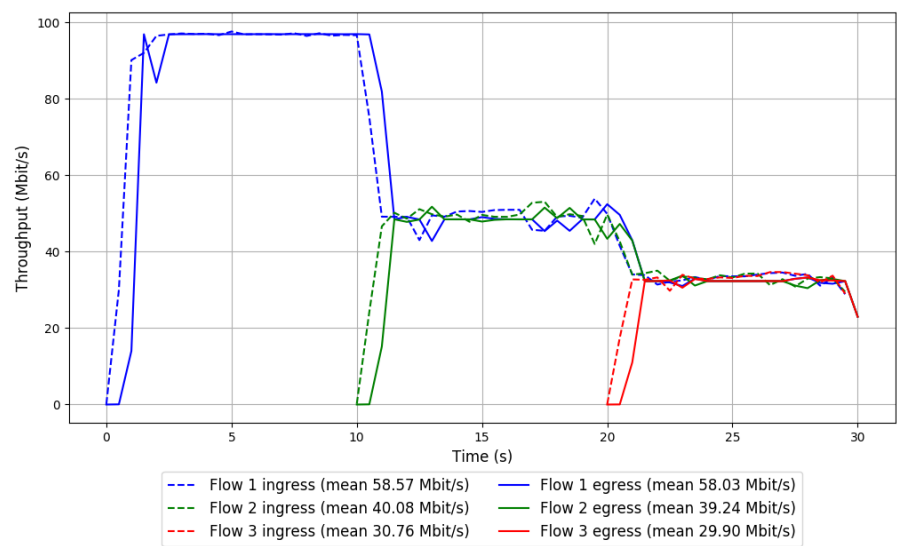


Run 7: Statistics of FillP

Start at: 2018-05-22 17:40:43
End at: 2018-05-22 17:41:13
Local clock offset: -2.049 ms
Remote clock offset: 14.452 ms

Below is generated by plot.py at 2018-05-22 18:53:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.89 Mbit/s
95th percentile per-packet one-way delay: 107.150 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 58.03 Mbit/s
95th percentile per-packet one-way delay: 106.707 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 39.24 Mbit/s
95th percentile per-packet one-way delay: 106.264 ms
Loss rate: 2.95%
-- Flow 3:
Average throughput: 29.90 Mbit/s
95th percentile per-packet one-way delay: 108.552 ms
Loss rate: 4.49%

Run 7: Report of FillP — Data Link

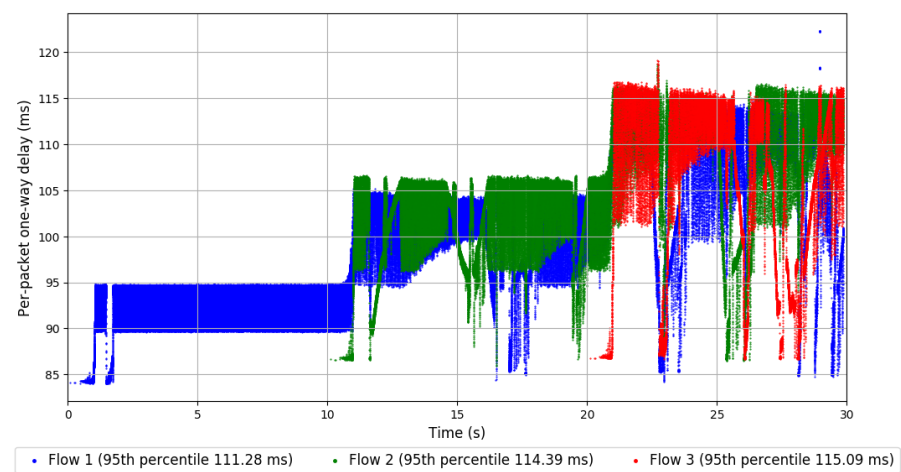
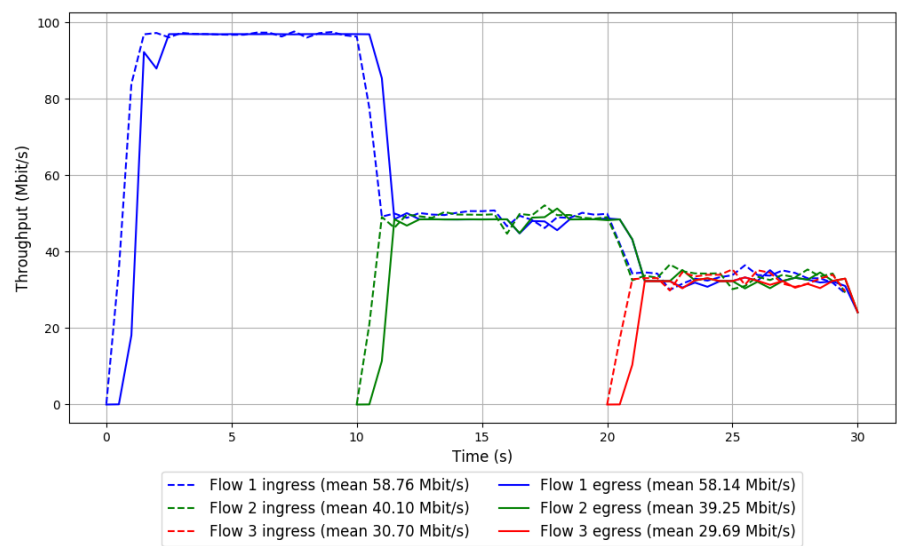


Run 8: Statistics of FillP

Start at: 2018-05-22 18:00:23
End at: 2018-05-22 18:00:53
Local clock offset: -0.181 ms
Remote clock offset: 11.71 ms

Below is generated by plot.py at 2018-05-22 18:53:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 113.474 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 58.14 Mbit/s
95th percentile per-packet one-way delay: 111.281 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 39.25 Mbit/s
95th percentile per-packet one-way delay: 114.387 ms
Loss rate: 2.92%
-- Flow 3:
Average throughput: 29.69 Mbit/s
95th percentile per-packet one-way delay: 115.091 ms
Loss rate: 4.91%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-22 18:20:03

End at: 2018-05-22 18:20:33

Local clock offset: -1.341 ms

Remote clock offset: 5.924 ms

Below is generated by plot.py at 2018-05-22 18:54:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.98 Mbit/s

95th percentile per-packet one-way delay: 109.072 ms

Loss rate: 2.37%

-- Flow 1:

Average throughput: 58.29 Mbit/s

95th percentile per-packet one-way delay: 107.599 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 39.15 Mbit/s

95th percentile per-packet one-way delay: 108.709 ms

Loss rate: 3.02%

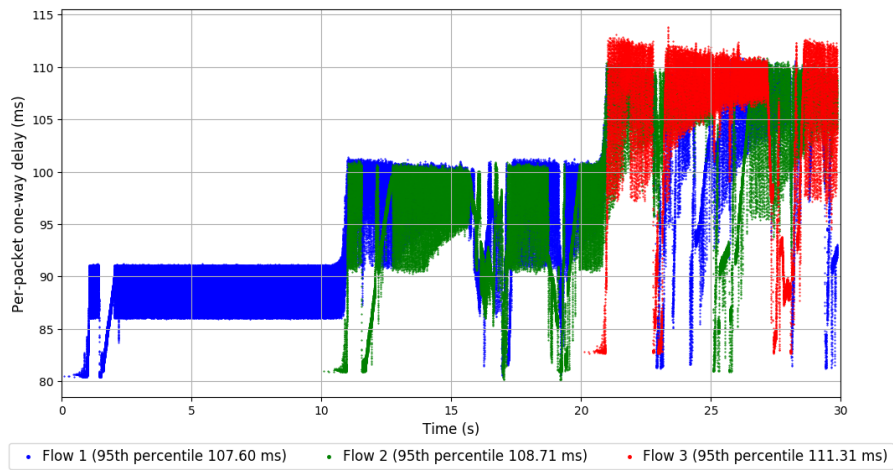
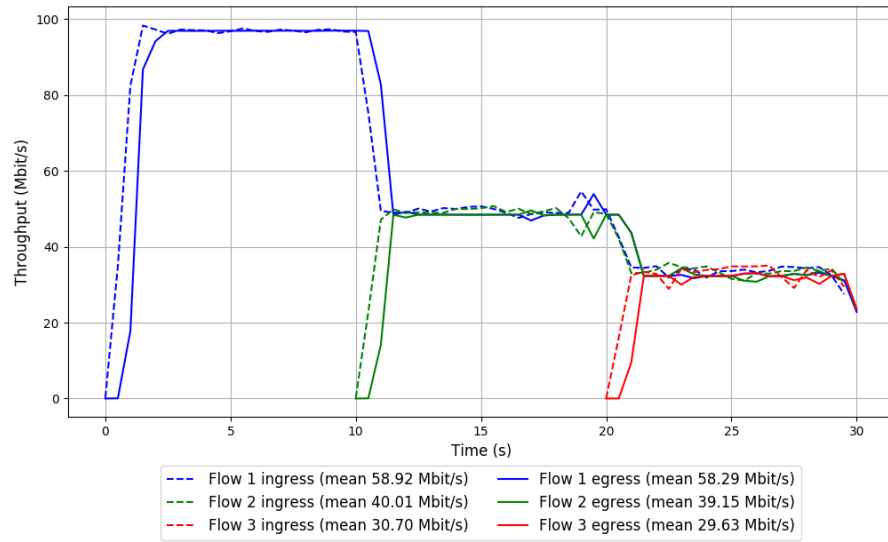
-- Flow 3:

Average throughput: 29.63 Mbit/s

95th percentile per-packet one-way delay: 111.307 ms

Loss rate: 5.11%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-22 18:39:43

End at: 2018-05-22 18:40:13

Local clock offset: -2.579 ms

Remote clock offset: 2.696 ms

Below is generated by plot.py at 2018-05-22 18:54:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 113.094 ms

Loss rate: 2.61%

-- Flow 1:

Average throughput: 58.30 Mbit/s

95th percentile per-packet one-way delay: 112.182 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 38.93 Mbit/s

95th percentile per-packet one-way delay: 113.458 ms

Loss rate: 3.68%

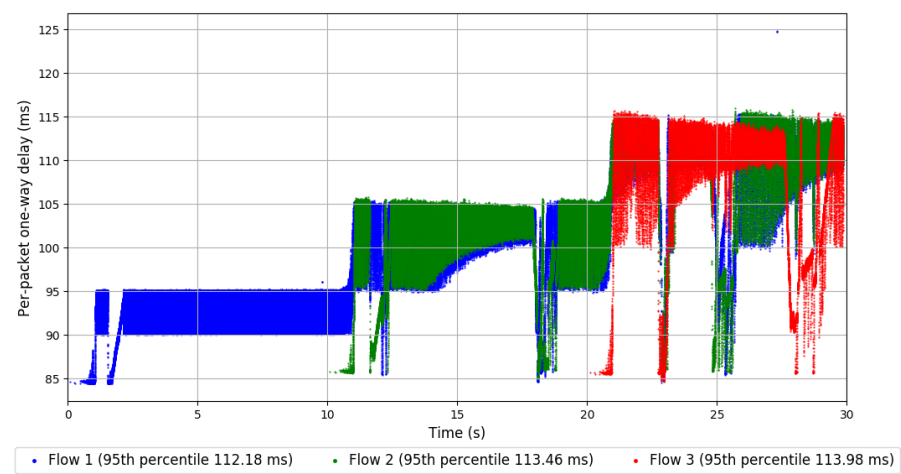
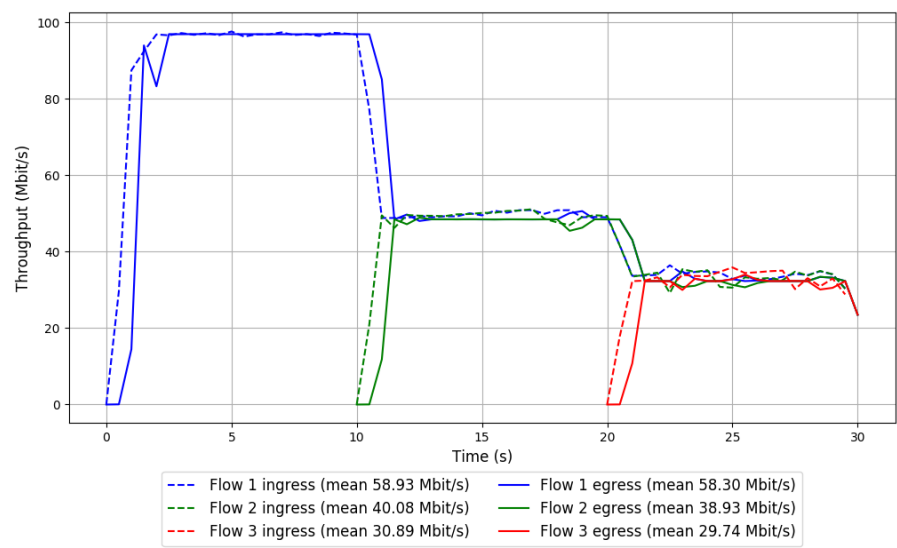
-- Flow 3:

Average throughput: 29.74 Mbit/s

95th percentile per-packet one-way delay: 113.983 ms

Loss rate: 5.38%

Run 10: Report of FillP — Data Link

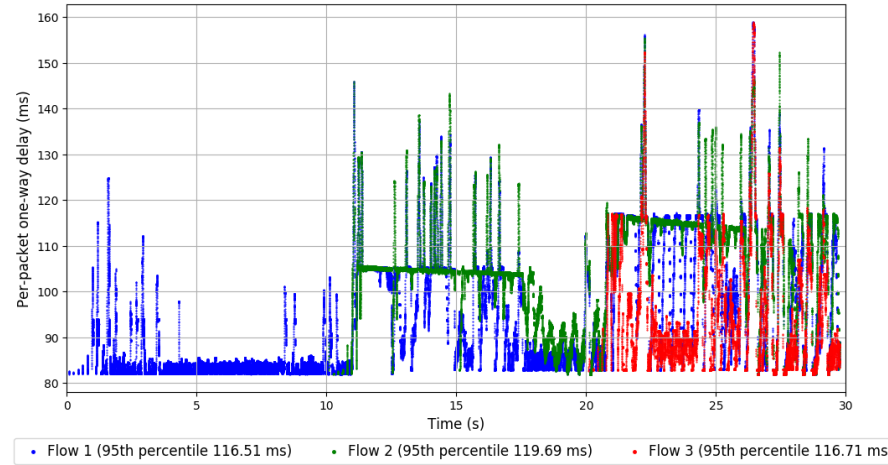
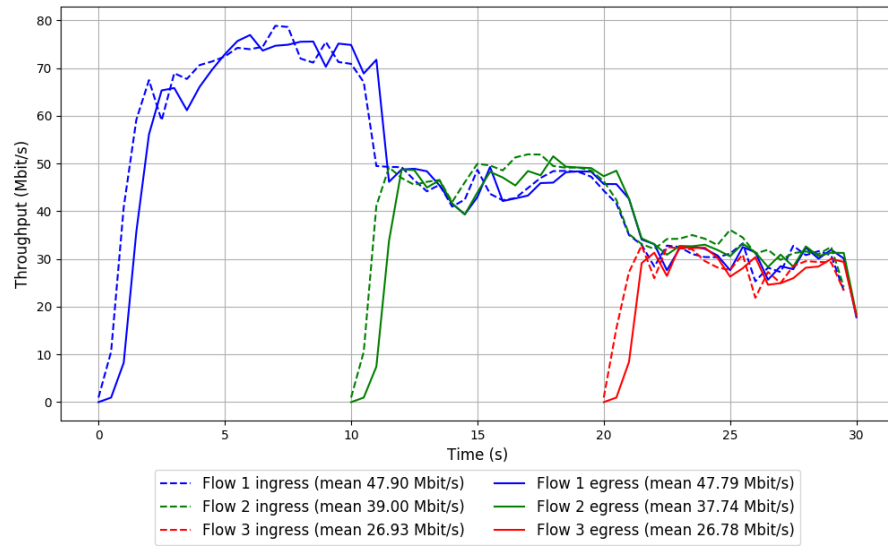


```
Run 1: Statistics of Indigo

Start at: 2018-05-22 15:41:37
End at: 2018-05-22 15:42:07
Local clock offset: -2.352 ms
Remote clock offset: 1.071 ms

# Below is generated by plot.py at 2018-05-22 18:54:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.53 Mbit/s
95th percentile per-packet one-way delay: 116.647 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 47.79 Mbit/s
95th percentile per-packet one-way delay: 116.510 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 37.74 Mbit/s
95th percentile per-packet one-way delay: 119.690 ms
Loss rate: 4.05%
-- Flow 3:
Average throughput: 26.78 Mbit/s
95th percentile per-packet one-way delay: 116.714 ms
Loss rate: 2.21%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-22 16:01:11

End at: 2018-05-22 16:01:41

Local clock offset: -1.557 ms

Remote clock offset: 3.776 ms

Below is generated by plot.py at 2018-05-22 18:54:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.15 Mbit/s

95th percentile per-packet one-way delay: 120.882 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 53.25 Mbit/s

95th percentile per-packet one-way delay: 120.871 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 36.55 Mbit/s

95th percentile per-packet one-way delay: 120.940 ms

Loss rate: 1.30%

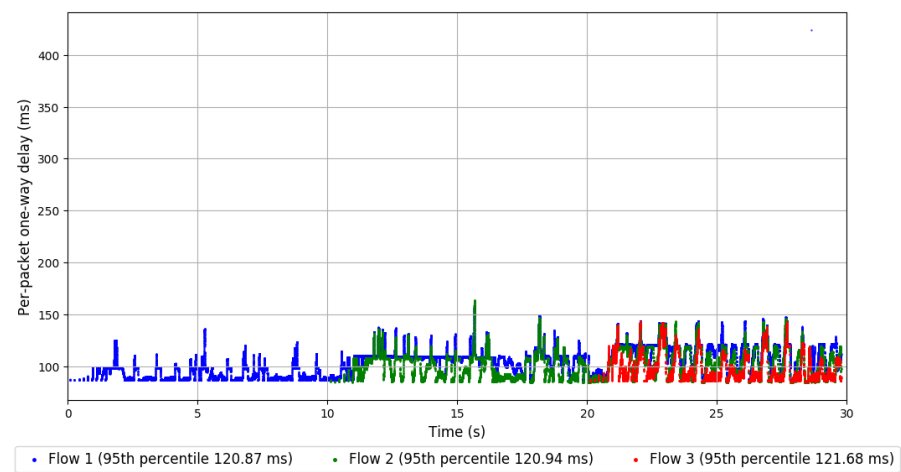
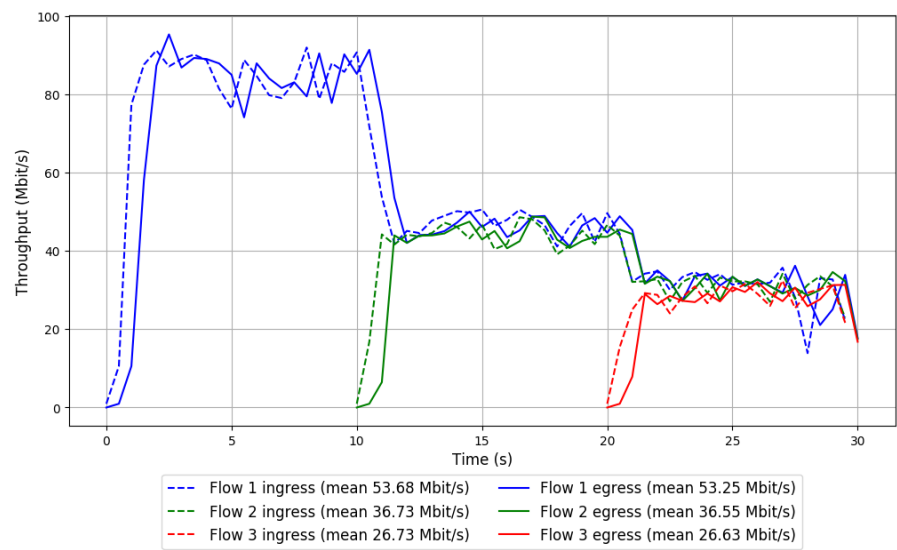
-- Flow 3:

Average throughput: 26.63 Mbit/s

95th percentile per-packet one-way delay: 121.684 ms

Loss rate: 2.20%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-22 16:20:47

End at: 2018-05-22 16:21:17

Local clock offset: -2.362 ms

Remote clock offset: 5.172 ms

Below is generated by plot.py at 2018-05-22 18:54:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.32 Mbit/s

95th percentile per-packet one-way delay: 119.690 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 119.800 ms

Loss rate: 1.95%

-- Flow 2:

Average throughput: 37.13 Mbit/s

95th percentile per-packet one-way delay: 118.944 ms

Loss rate: 1.36%

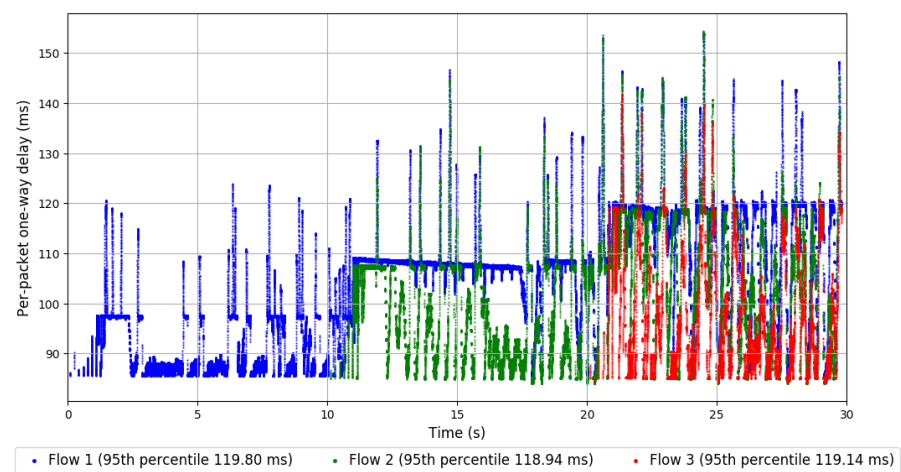
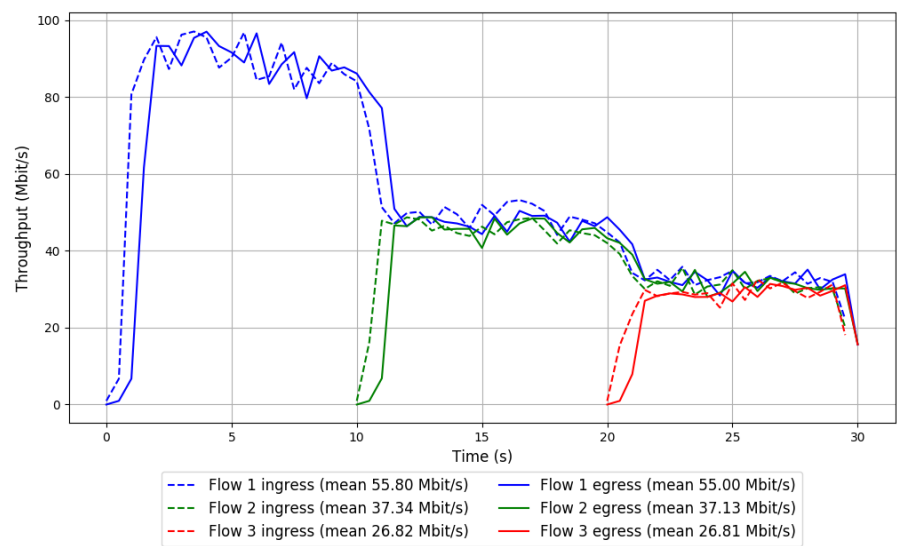
-- Flow 3:

Average throughput: 26.81 Mbit/s

95th percentile per-packet one-way delay: 119.138 ms

Loss rate: 1.69%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-22 16:40:24

End at: 2018-05-22 16:40:54

Local clock offset: -7.428 ms

Remote clock offset: 5.223 ms

Below is generated by plot.py at 2018-05-22 18:54:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 114.373 ms

Loss rate: 6.68%

-- Flow 1:

Average throughput: 58.72 Mbit/s

95th percentile per-packet one-way delay: 111.523 ms

Loss rate: 9.68%

-- Flow 2:

Average throughput: 38.81 Mbit/s

95th percentile per-packet one-way delay: 118.922 ms

Loss rate: 0.95%

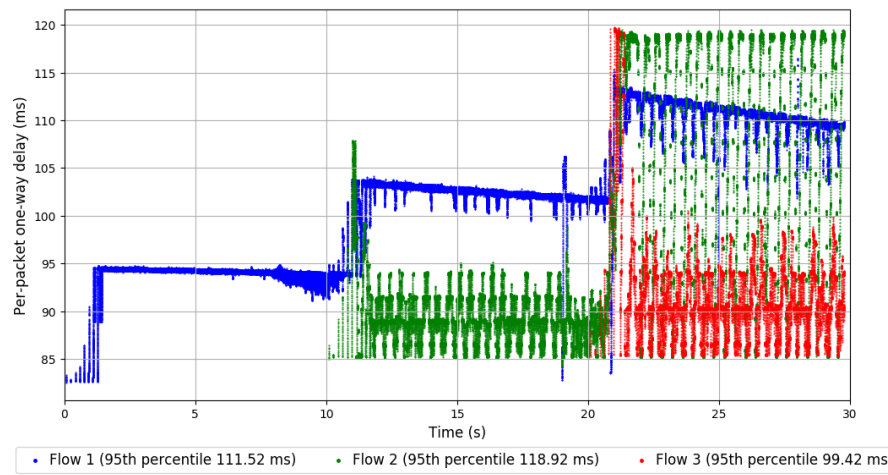
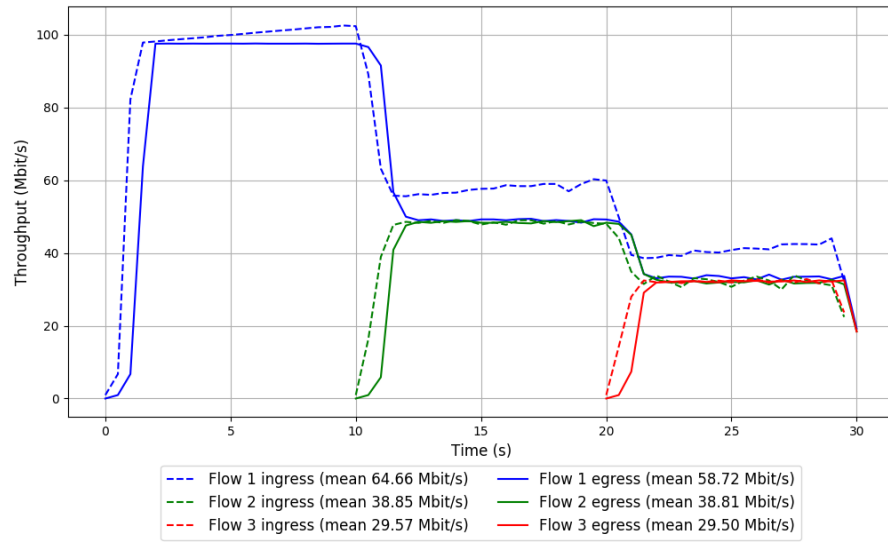
-- Flow 3:

Average throughput: 29.50 Mbit/s

95th percentile per-packet one-way delay: 99.423 ms

Loss rate: 1.91%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-22 17:00:05

End at: 2018-05-22 17:00:35

Local clock offset: -8.497 ms

Remote clock offset: 7.446 ms

Below is generated by plot.py at 2018-05-22 18:54:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 113.782 ms

Loss rate: 2.05%

-- Flow 1:

Average throughput: 58.64 Mbit/s

95th percentile per-packet one-way delay: 113.900 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 113.825 ms

Loss rate: 1.19%

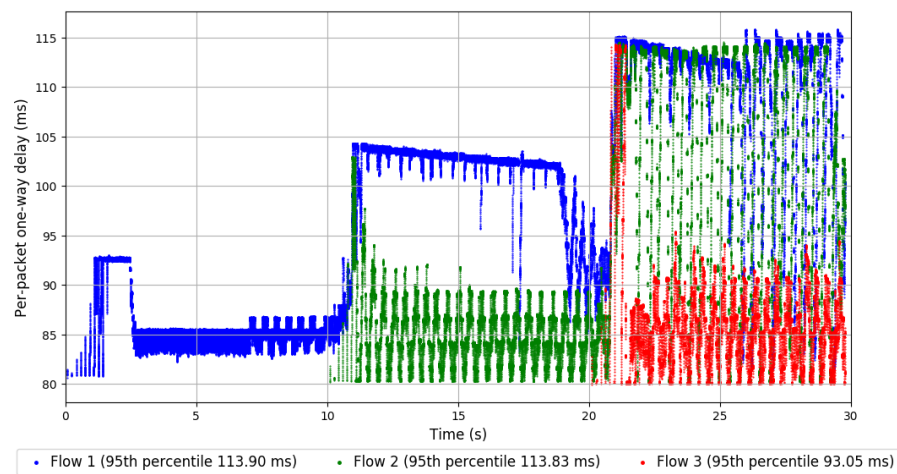
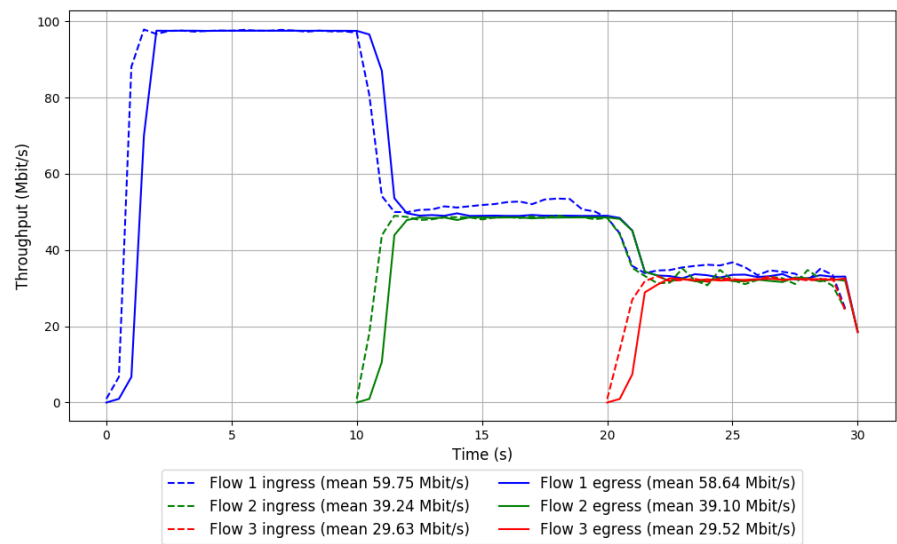
-- Flow 3:

Average throughput: 29.52 Mbit/s

95th percentile per-packet one-way delay: 93.050 ms

Loss rate: 2.02%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-22 17:19:45

End at: 2018-05-22 17:20:15

Local clock offset: -7.041 ms

Remote clock offset: 3.763 ms

Below is generated by plot.py at 2018-05-22 18:54:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.10 Mbit/s

95th percentile per-packet one-way delay: 117.458 ms

Loss rate: 1.83%

-- Flow 1:

Average throughput: 58.17 Mbit/s

95th percentile per-packet one-way delay: 117.042 ms

Loss rate: 2.14%

-- Flow 2:

Average throughput: 38.34 Mbit/s

95th percentile per-packet one-way delay: 117.943 ms

Loss rate: 1.10%

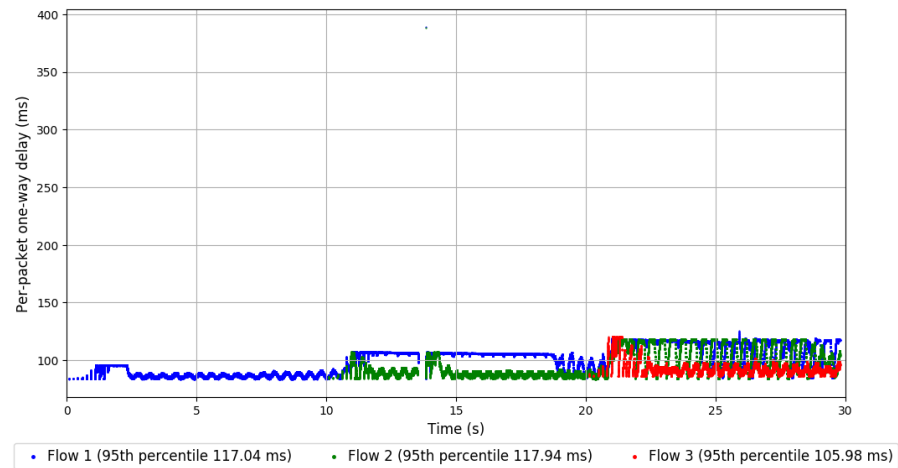
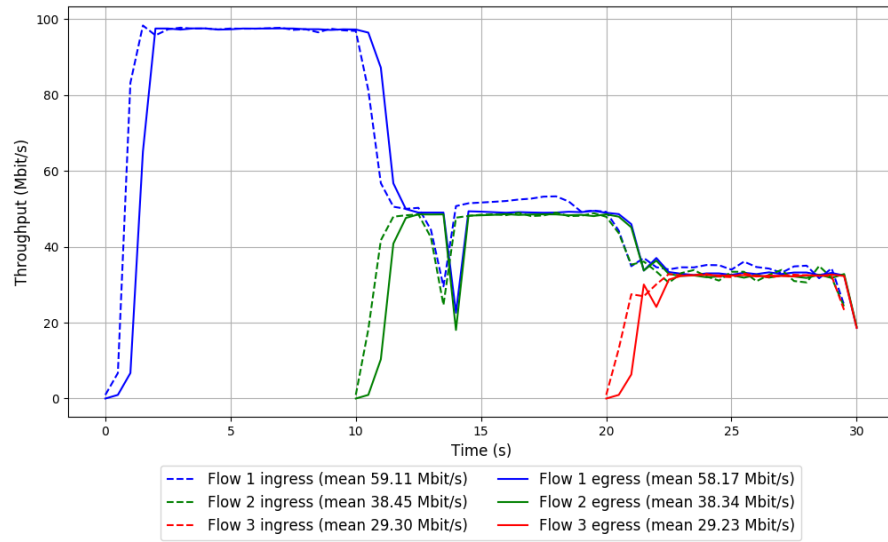
-- Flow 3:

Average throughput: 29.23 Mbit/s

95th percentile per-packet one-way delay: 105.977 ms

Loss rate: 1.90%

Run 6: Report of Indigo — Data Link

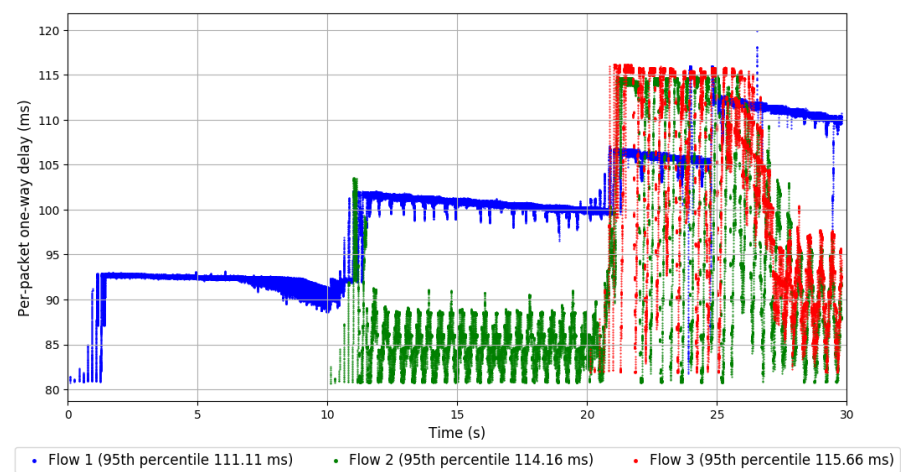
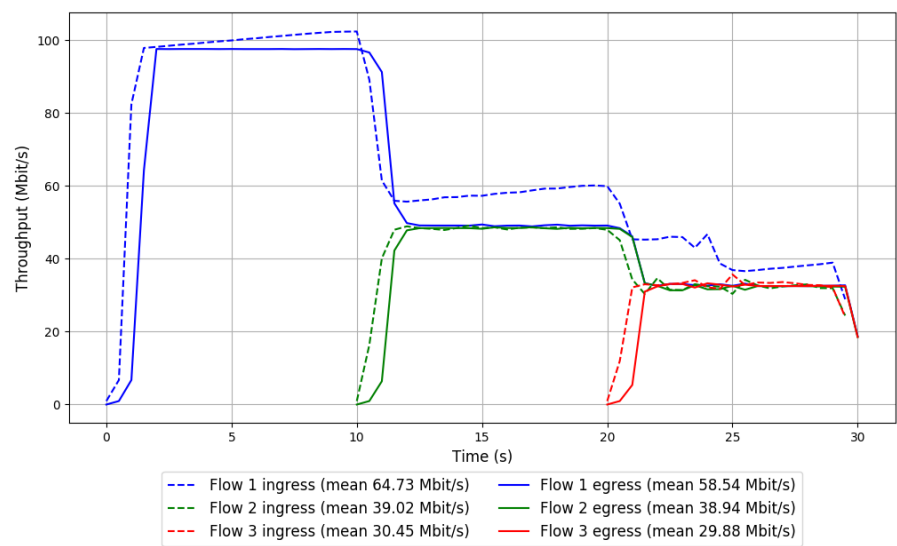


Run 7: Statistics of Indigo

Start at: 2018-05-22 17:39:26
End at: 2018-05-22 17:39:56
Local clock offset: -2.276 ms
Remote clock offset: 12.413 ms

Below is generated by plot.py at 2018-05-22 18:55:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 112.980 ms
Loss rate: 7.10%
-- Flow 1:
Average throughput: 58.54 Mbit/s
95th percentile per-packet one-way delay: 111.106 ms
Loss rate: 10.08%
-- Flow 2:
Average throughput: 38.94 Mbit/s
95th percentile per-packet one-way delay: 114.159 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 29.88 Mbit/s
95th percentile per-packet one-way delay: 115.659 ms
Loss rate: 3.49%

Run 7: Report of Indigo — Data Link

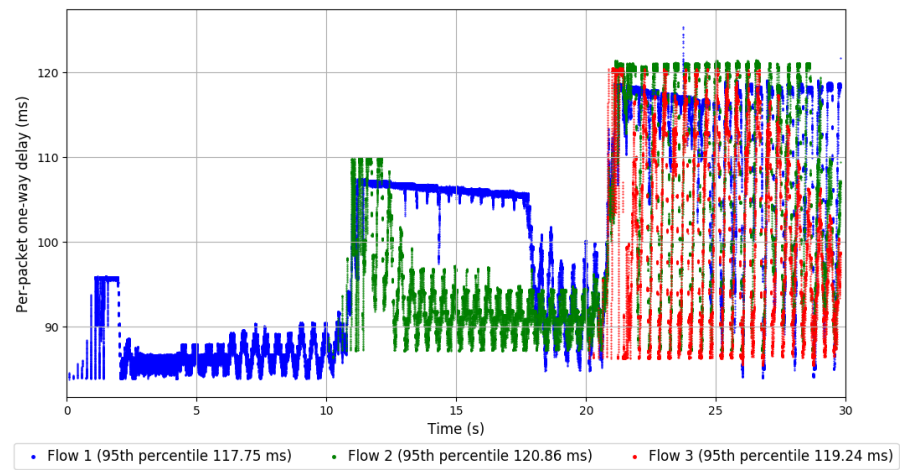
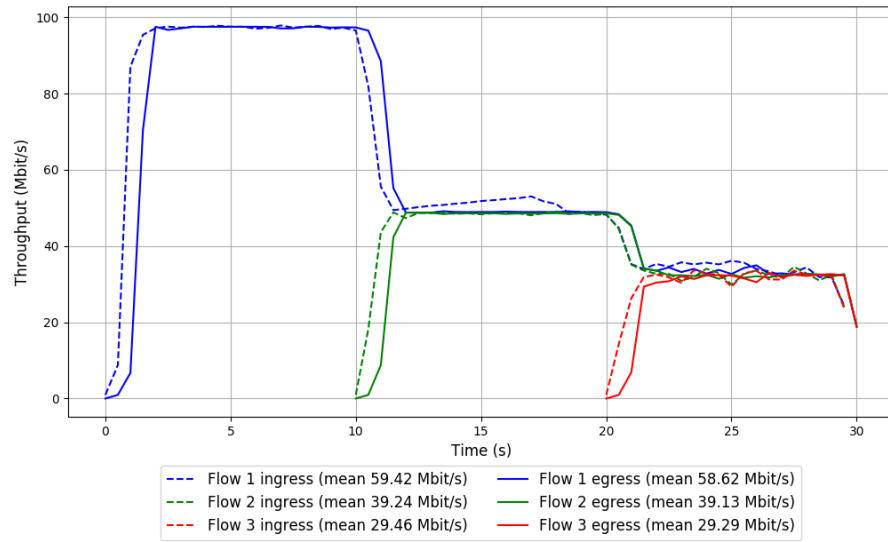


Run 8: Statistics of Indigo

Start at: 2018-05-22 17:59:06
End at: 2018-05-22 17:59:36
Local clock offset: 0.045 ms
Remote clock offset: 11.568 ms

```
# Below is generated by plot.py at 2018-05-22 18:55:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 118.330 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 58.62 Mbit/s
95th percentile per-packet one-way delay: 117.747 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 39.13 Mbit/s
95th percentile per-packet one-way delay: 120.865 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 29.29 Mbit/s
95th percentile per-packet one-way delay: 119.239 ms
Loss rate: 2.24%
```

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-22 18:18:46

End at: 2018-05-22 18:19:16

Local clock offset: -1.272 ms

Remote clock offset: 3.295 ms

Below is generated by plot.py at 2018-05-22 18:55:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 117.975 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 58.38 Mbit/s

95th percentile per-packet one-way delay: 118.228 ms

Loss rate: 2.36%

-- Flow 2:

Average throughput: 39.40 Mbit/s

95th percentile per-packet one-way delay: 117.115 ms

Loss rate: 1.80%

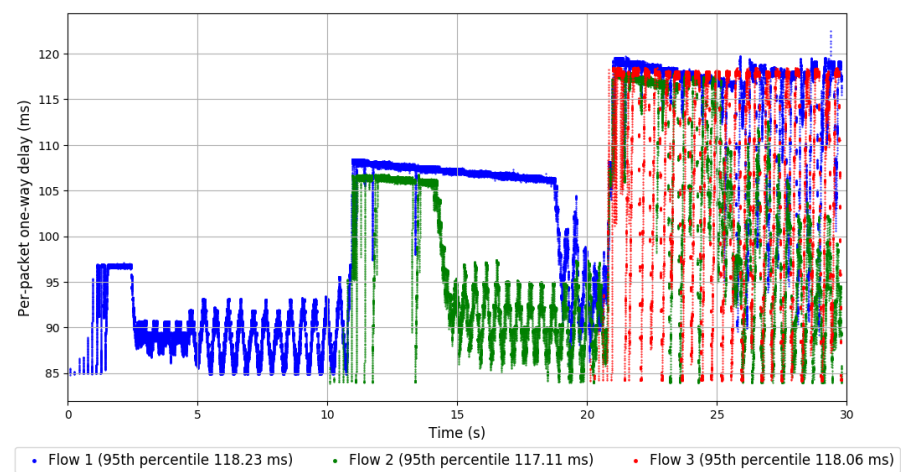
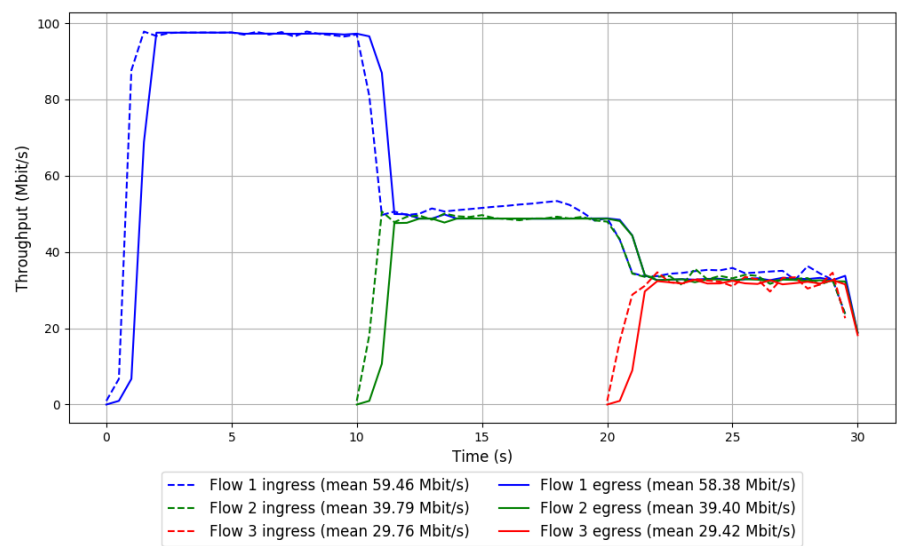
-- Flow 3:

Average throughput: 29.42 Mbit/s

95th percentile per-packet one-way delay: 118.059 ms

Loss rate: 2.77%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-22 18:38:26

End at: 2018-05-22 18:38:56

Local clock offset: -3.226 ms

Remote clock offset: 5.249 ms

Below is generated by plot.py at 2018-05-22 18:55:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.02 Mbit/s

95th percentile per-packet one-way delay: 114.606 ms

Loss rate: 7.57%

-- Flow 1:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 107.918 ms

Loss rate: 10.82%

-- Flow 2:

Average throughput: 38.79 Mbit/s

95th percentile per-packet one-way delay: 114.384 ms

Loss rate: 1.02%

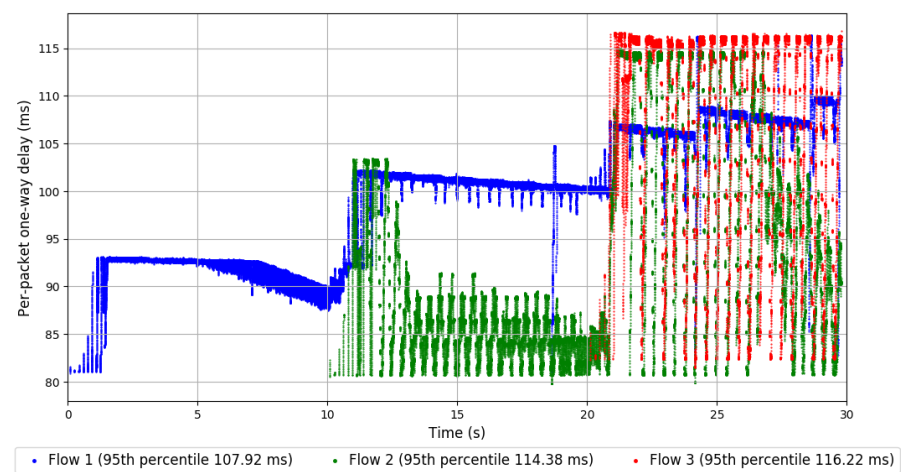
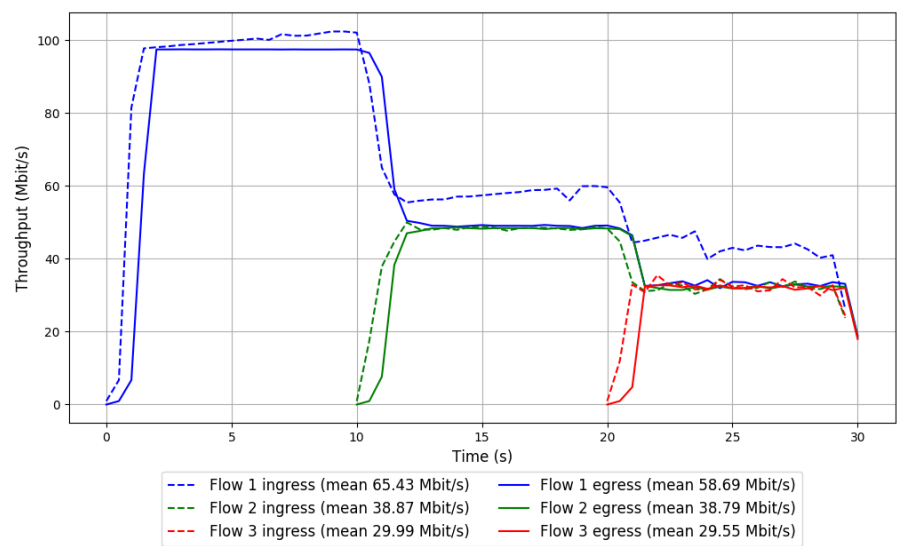
-- Flow 3:

Average throughput: 29.55 Mbit/s

95th percentile per-packet one-way delay: 116.219 ms

Loss rate: 3.11%

Run 10: Report of Indigo — Data Link

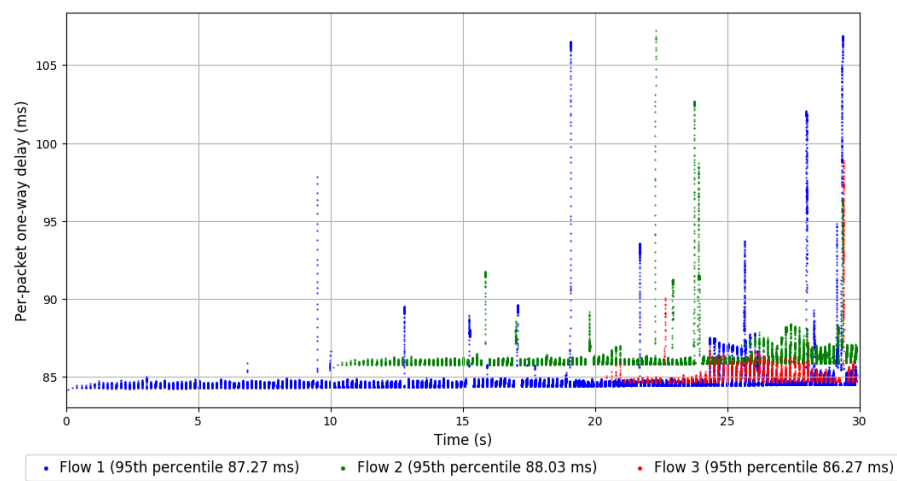
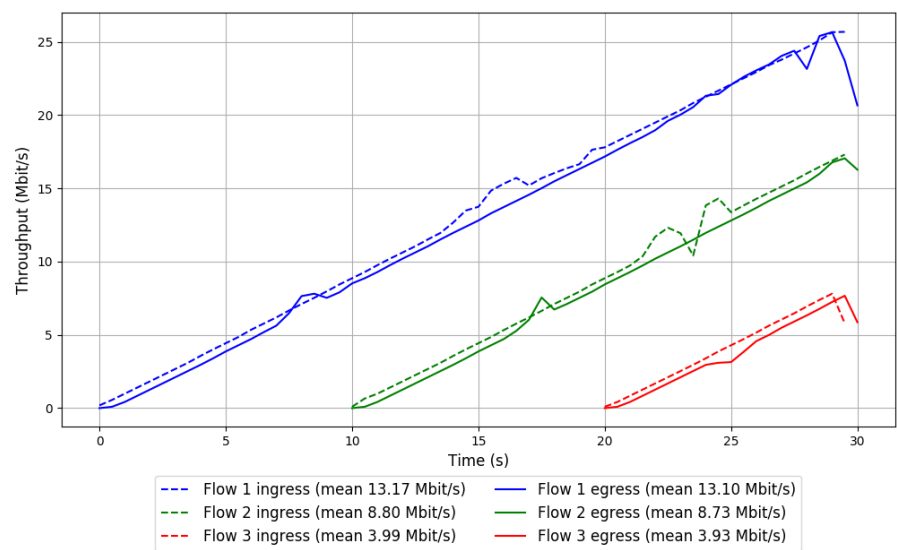


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-22 15:46:39
End at: 2018-05-22 15:47:09
Local clock offset: -1.551 ms
Remote clock offset: -0.43 ms

# Below is generated by plot.py at 2018-05-22 18:55:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.16 Mbit/s
95th percentile per-packet one-way delay: 87.464 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 87.274 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 8.73 Mbit/s
95th percentile per-packet one-way delay: 88.030 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 86.274 ms
Loss rate: 3.25%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-22 16:06:14

End at: 2018-05-22 16:06:44

Local clock offset: -1.63 ms

Remote clock offset: 4.381 ms

Below is generated by plot.py at 2018-05-22 18:55:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.19 Mbit/s

95th percentile per-packet one-way delay: 92.397 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 12.99 Mbit/s

95th percentile per-packet one-way delay: 93.523 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.76 Mbit/s

95th percentile per-packet one-way delay: 89.583 ms

Loss rate: 1.64%

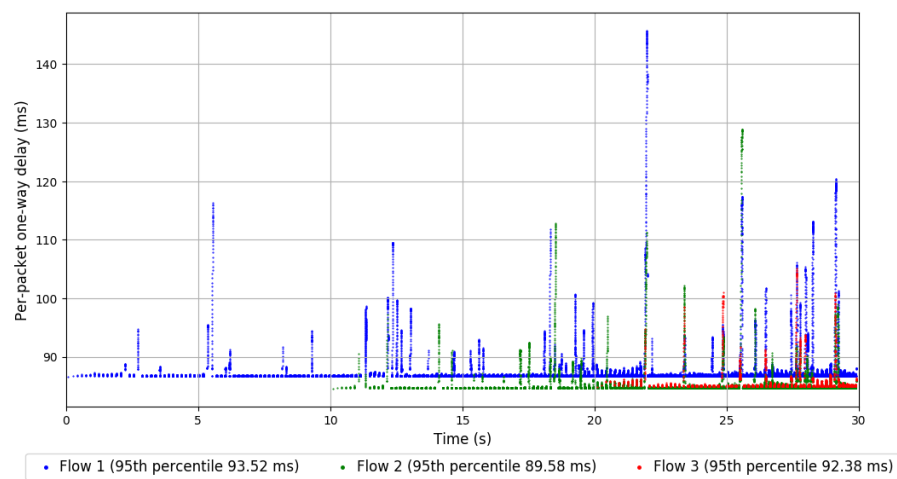
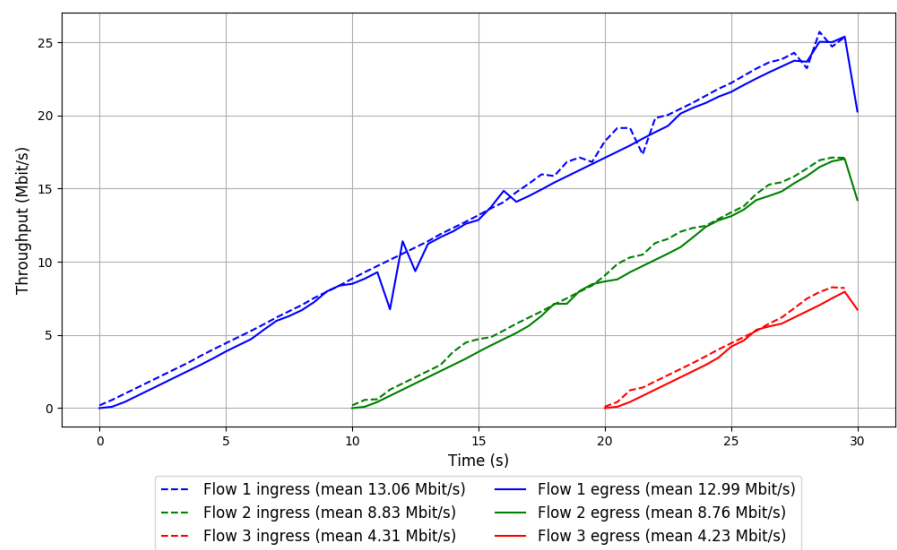
-- Flow 3:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 92.383 ms

Loss rate: 3.34%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-22 16:25:49

End at: 2018-05-22 16:26:19

Local clock offset: -2.275 ms

Remote clock offset: 9.383 ms

Below is generated by plot.py at 2018-05-22 18:55:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.29 Mbit/s

95th percentile per-packet one-way delay: 85.722 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 12.25 Mbit/s

95th percentile per-packet one-way delay: 86.248 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 8.54 Mbit/s

95th percentile per-packet one-way delay: 84.914 ms

Loss rate: 1.67%

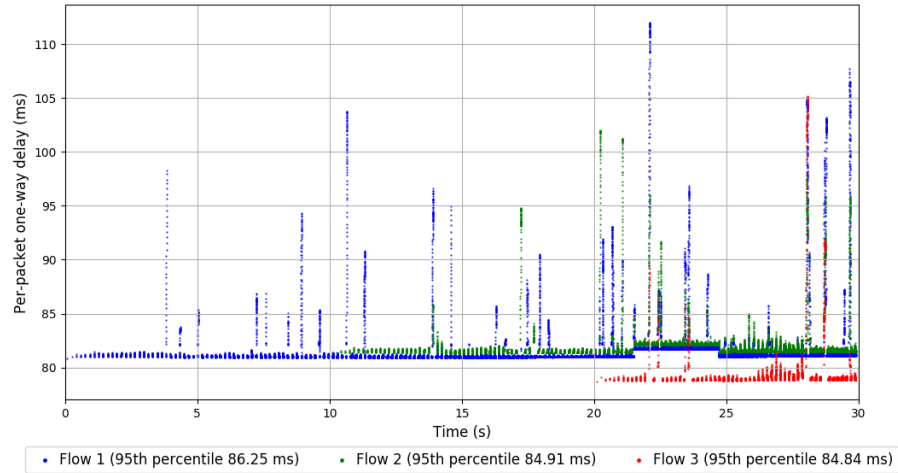
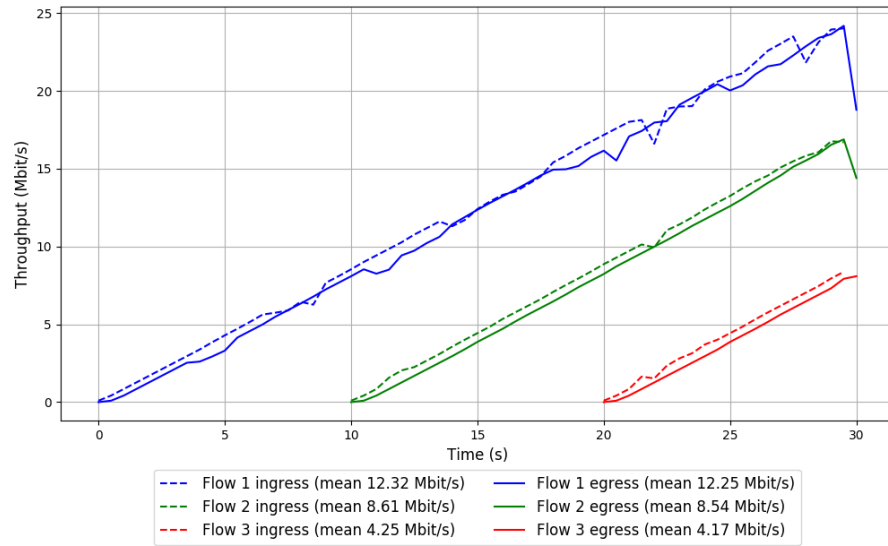
-- Flow 3:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 84.843 ms

Loss rate: 3.36%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-22 16:45:28

End at: 2018-05-22 16:45:58

Local clock offset: -6.511 ms

Remote clock offset: 9.078 ms

Below is generated by plot.py at 2018-05-22 18:55:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.79 Mbit/s

95th percentile per-packet one-way delay: 83.864 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 13.20 Mbit/s

95th percentile per-packet one-way delay: 84.401 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 83.479 ms

Loss rate: 1.73%

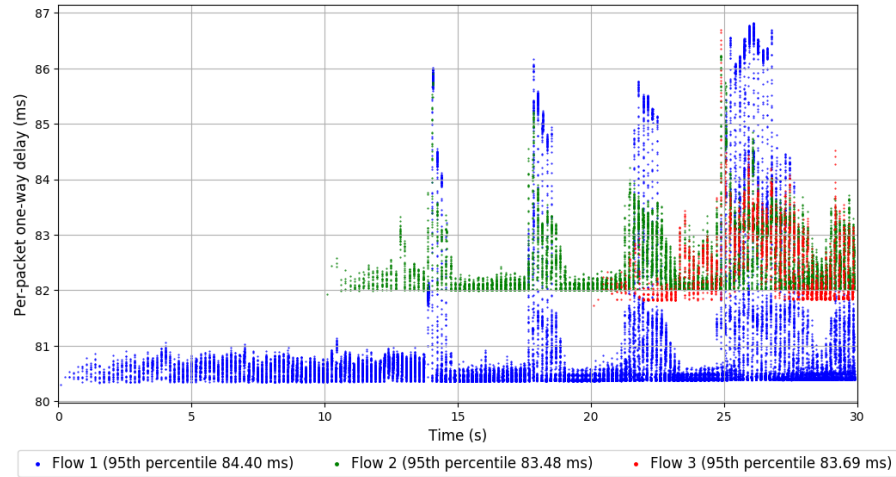
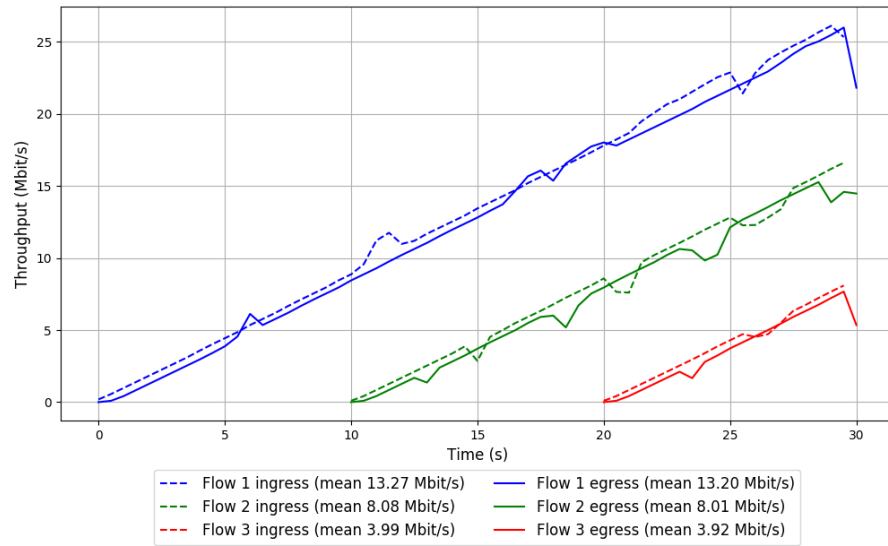
-- Flow 3:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 83.690 ms

Loss rate: 3.47%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-22 17:05:08

End at: 2018-05-22 17:05:38

Local clock offset: -7.991 ms

Remote clock offset: 8.813 ms

Below is generated by plot.py at 2018-05-22 18:55:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.68 Mbit/s

95th percentile per-packet one-way delay: 80.097 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 13.38 Mbit/s

95th percentile per-packet one-way delay: 80.108 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 8.93 Mbit/s

95th percentile per-packet one-way delay: 79.716 ms

Loss rate: 1.62%

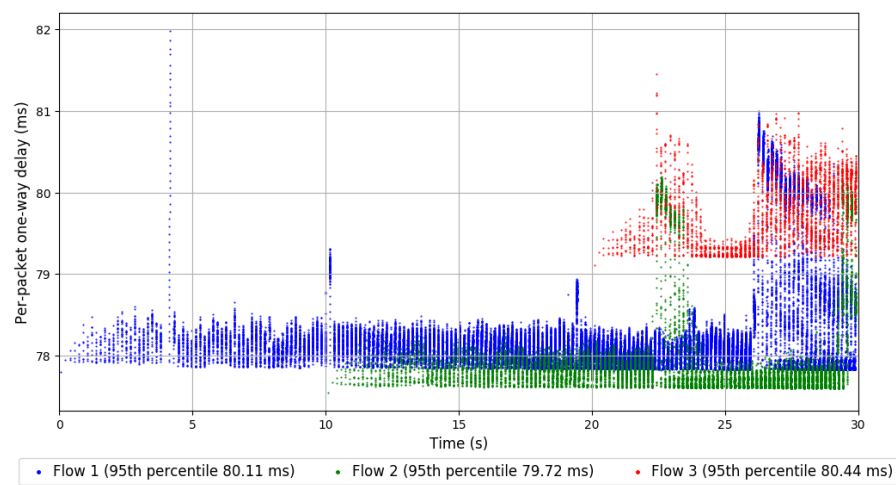
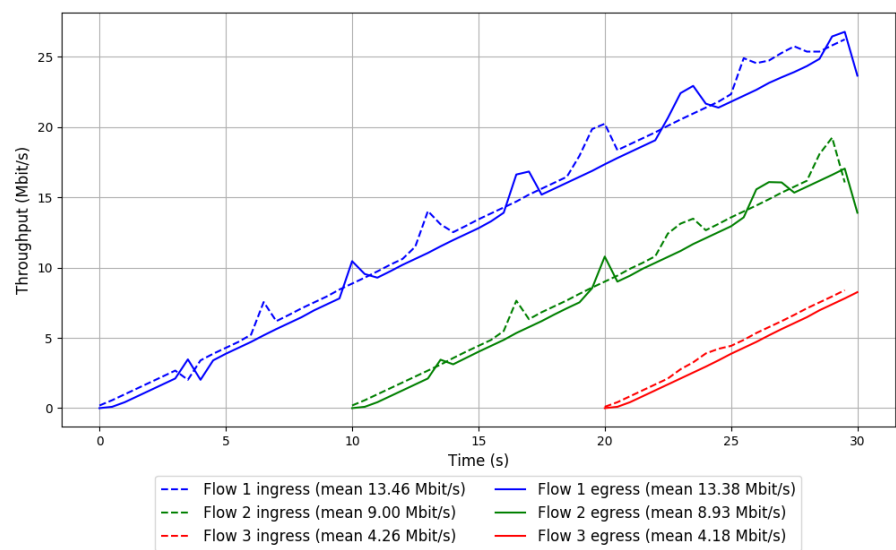
-- Flow 3:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 80.445 ms

Loss rate: 3.35%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-22 17:24:49

End at: 2018-05-22 17:25:19

Local clock offset: -6.319 ms

Remote clock offset: 6.848 ms

Below is generated by plot.py at 2018-05-22 18:55:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.47 Mbit/s

95th percentile per-packet one-way delay: 81.610 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 81.593 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.75 Mbit/s

95th percentile per-packet one-way delay: 81.640 ms

Loss rate: 1.66%

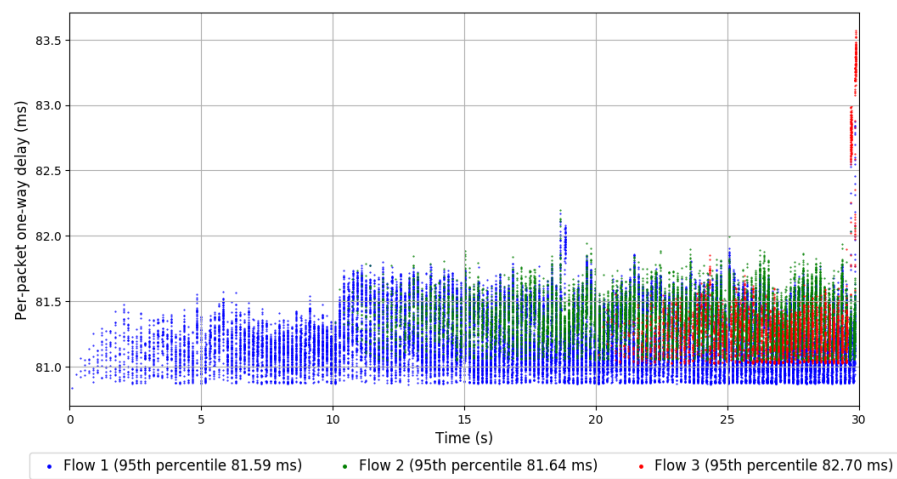
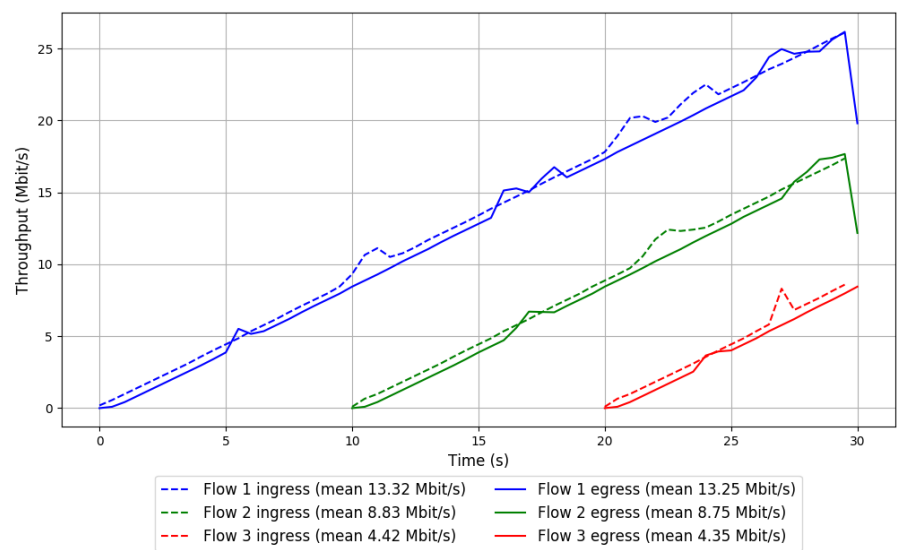
-- Flow 3:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 82.700 ms

Loss rate: 3.31%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-22 17:44:29

End at: 2018-05-22 17:44:59

Local clock offset: -1.427 ms

Remote clock offset: 9.676 ms

Below is generated by plot.py at 2018-05-22 18:55:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.09 Mbit/s

95th percentile per-packet one-way delay: 85.355 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 12.99 Mbit/s

95th percentile per-packet one-way delay: 85.372 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 8.60 Mbit/s

95th percentile per-packet one-way delay: 85.372 ms

Loss rate: 1.68%

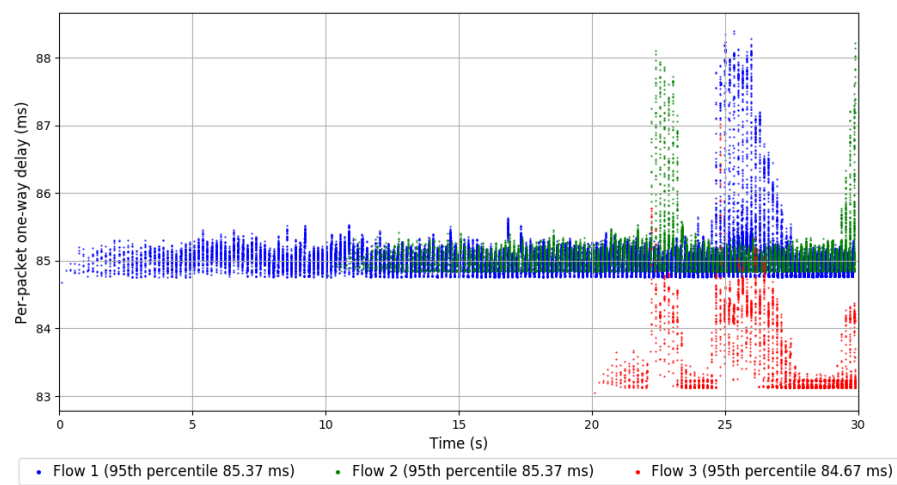
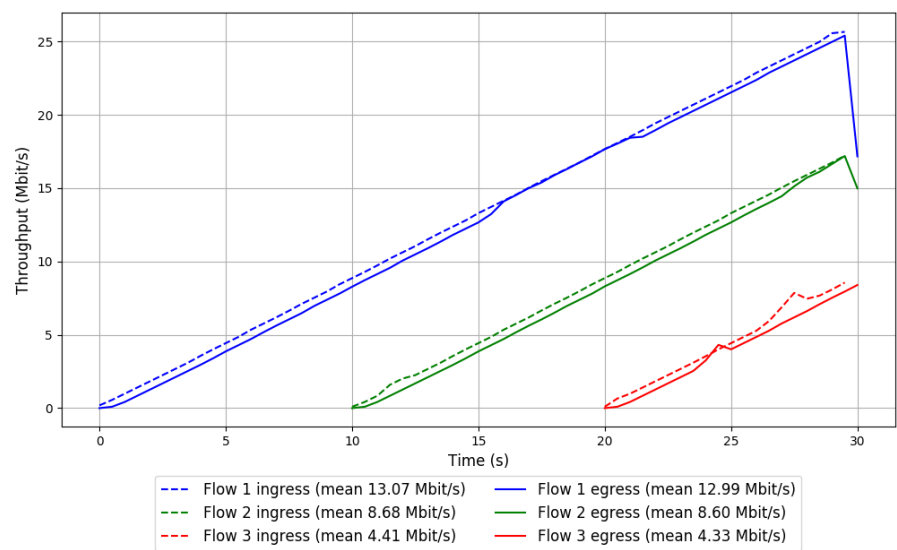
-- Flow 3:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 84.672 ms

Loss rate: 3.32%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-22 18:04:09

End at: 2018-05-22 18:04:39

Local clock offset: -1.473 ms

Remote clock offset: 9.363 ms

Below is generated by plot.py at 2018-05-22 18:55:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.49 Mbit/s

95th percentile per-packet one-way delay: 84.519 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 84.574 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.77 Mbit/s

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

Loss rate: 1.66%

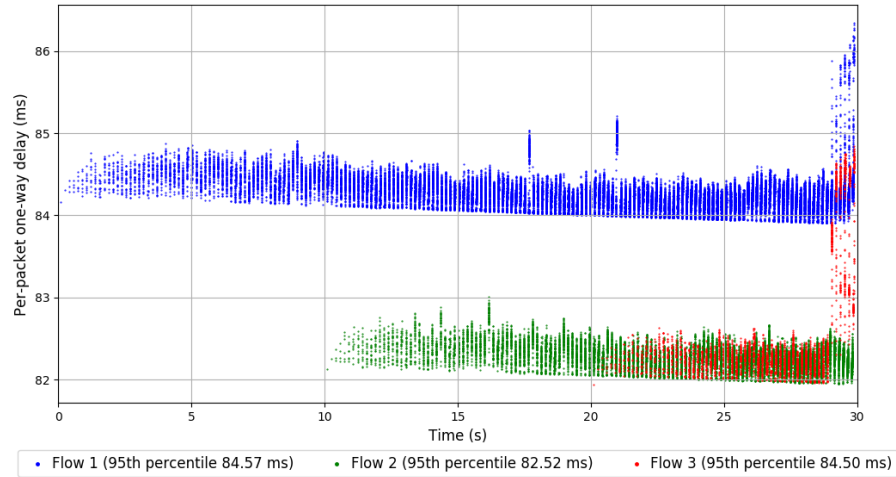
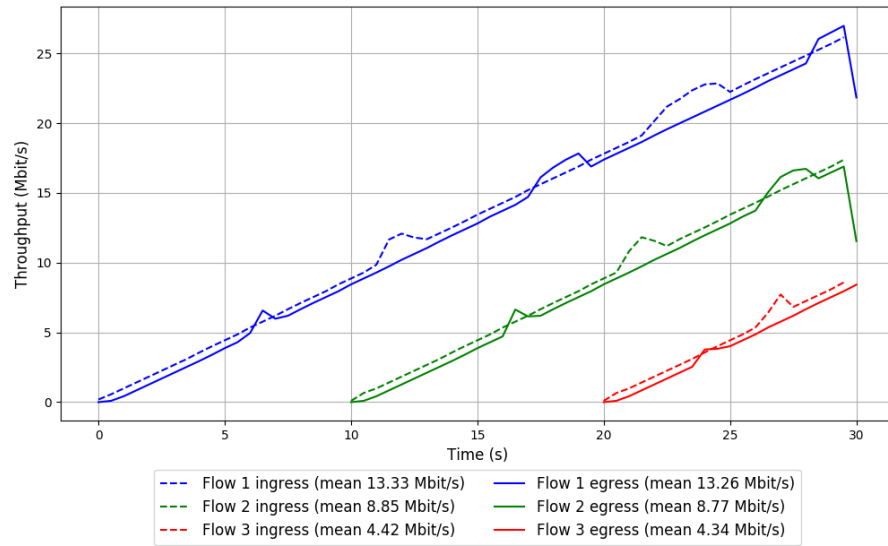
-- Flow 3:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 84.498 ms

Loss rate: 3.31%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-22 18:23:50

End at: 2018-05-22 18:24:20

Local clock offset: -0.48 ms

Remote clock offset: 6.369 ms

Below is generated by plot.py at 2018-05-22 18:55:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.09 Mbit/s

95th percentile per-packet one-way delay: 82.505 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 11.05 Mbit/s

95th percentile per-packet one-way delay: 82.131 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 81.465 ms

Loss rate: 1.66%

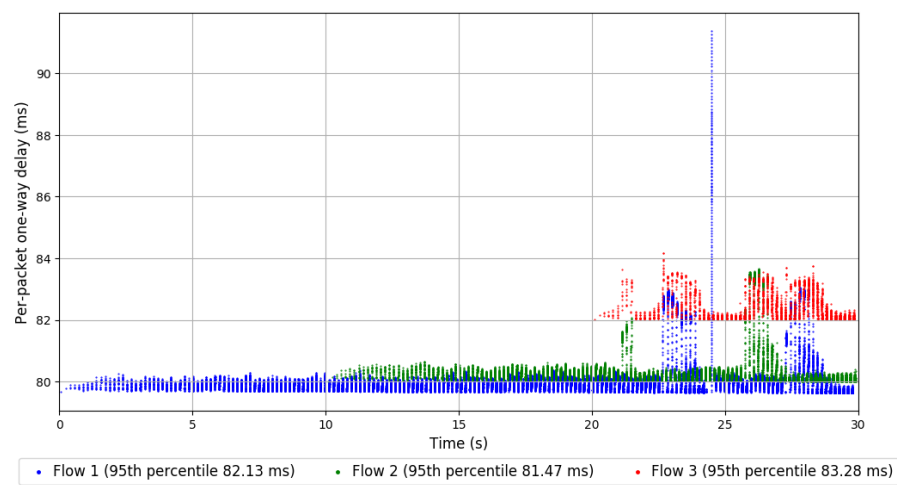
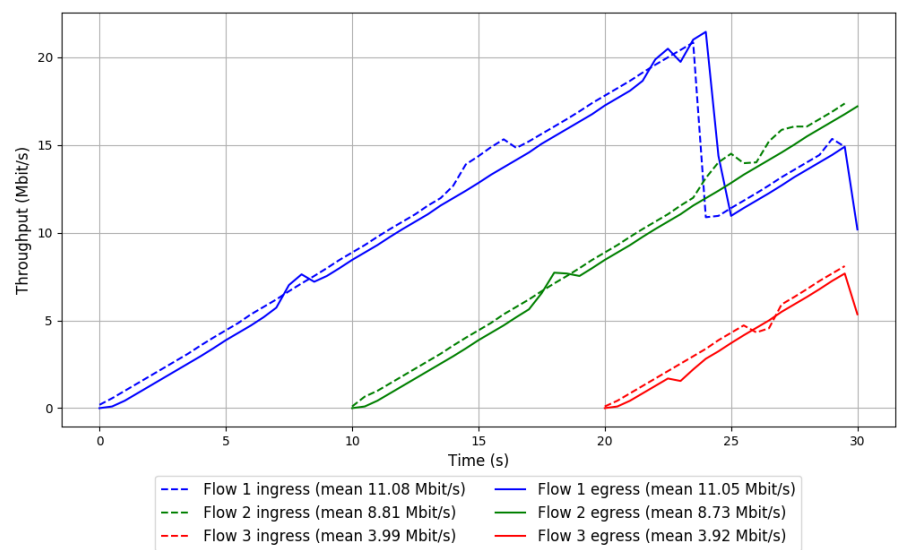
-- Flow 3:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 83.283 ms

Loss rate: 3.47%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-22 18:43:30

End at: 2018-05-22 18:44:00

Local clock offset: -1.835 ms

Remote clock offset: 2.526 ms

Below is generated by plot.py at 2018-05-22 18:55:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.77 Mbit/s

95th percentile per-packet one-way delay: 87.125 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 12.60 Mbit/s

95th percentile per-packet one-way delay: 86.385 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 8.72 Mbit/s

95th percentile per-packet one-way delay: 87.122 ms

Loss rate: 1.66%

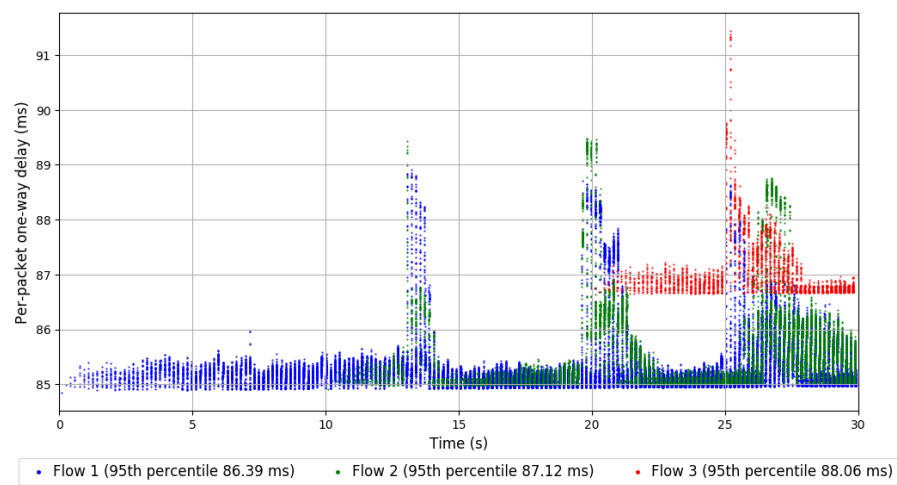
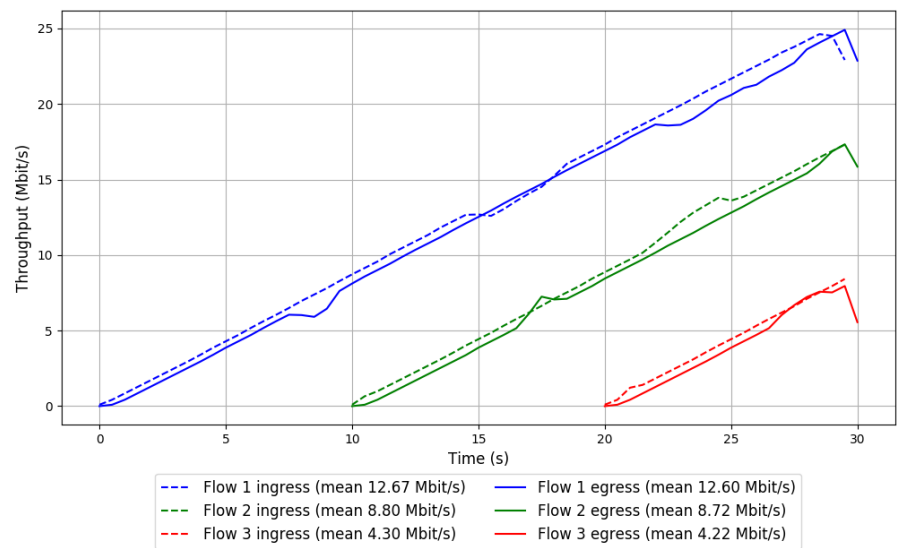
-- Flow 3:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 88.062 ms

Loss rate: 3.38%

Run 10: Report of LEDBAT — Data Link

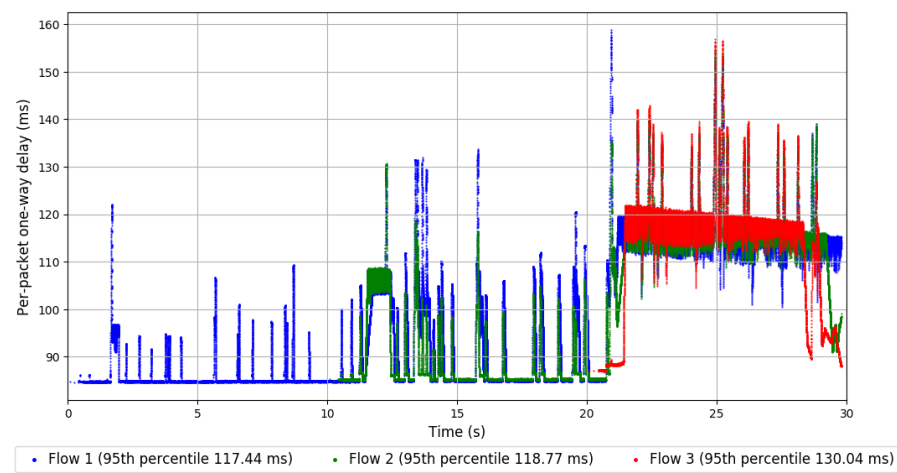
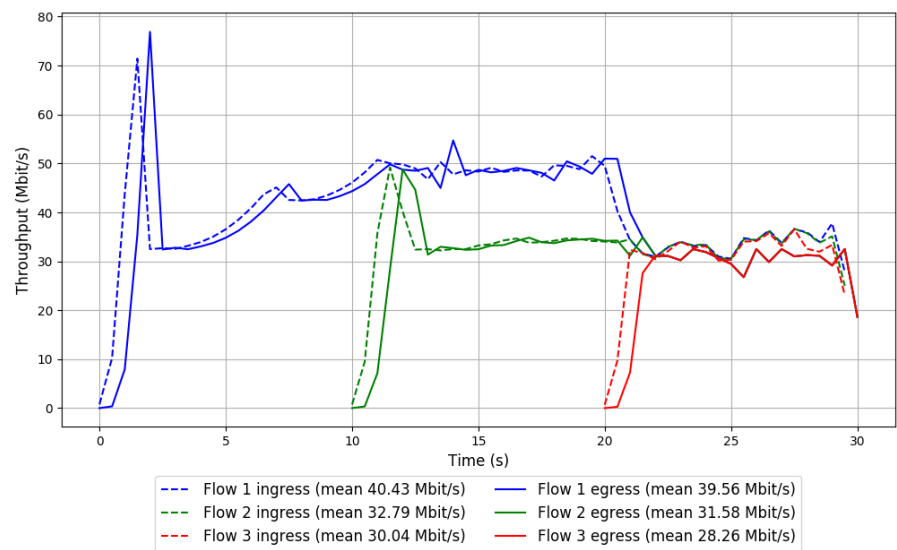


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-22 15:49:09
End at: 2018-05-22 15:49:39
Local clock offset: -1.506 ms
Remote clock offset: 0.291 ms

# Below is generated by plot.py at 2018-05-22 18:56:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.73 Mbit/s
95th percentile per-packet one-way delay: 119.619 ms
Loss rate: 3.91%
-- Flow 1:
Average throughput: 39.56 Mbit/s
95th percentile per-packet one-way delay: 117.445 ms
Loss rate: 2.72%
-- Flow 2:
Average throughput: 31.58 Mbit/s
95th percentile per-packet one-way delay: 118.774 ms
Loss rate: 4.48%
-- Flow 3:
Average throughput: 28.26 Mbit/s
95th percentile per-packet one-way delay: 130.041 ms
Loss rate: 7.49%
```


Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-22 16:08:43

End at: 2018-05-22 16:09:13

Local clock offset: -2.425 ms

Remote clock offset: 8.472 ms

Below is generated by plot.py at 2018-05-22 18:56:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.20 Mbit/s

95th percentile per-packet one-way delay: 114.985 ms

Loss rate: 3.29%

-- Flow 1:

Average throughput: 55.17 Mbit/s

95th percentile per-packet one-way delay: 110.620 ms

Loss rate: 3.37%

-- Flow 2:

Average throughput: 20.86 Mbit/s

95th percentile per-packet one-way delay: 110.996 ms

Loss rate: 1.25%

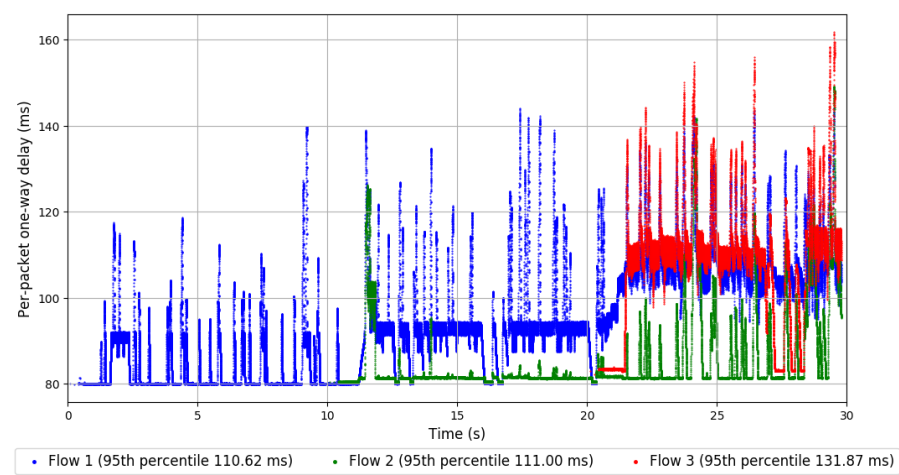
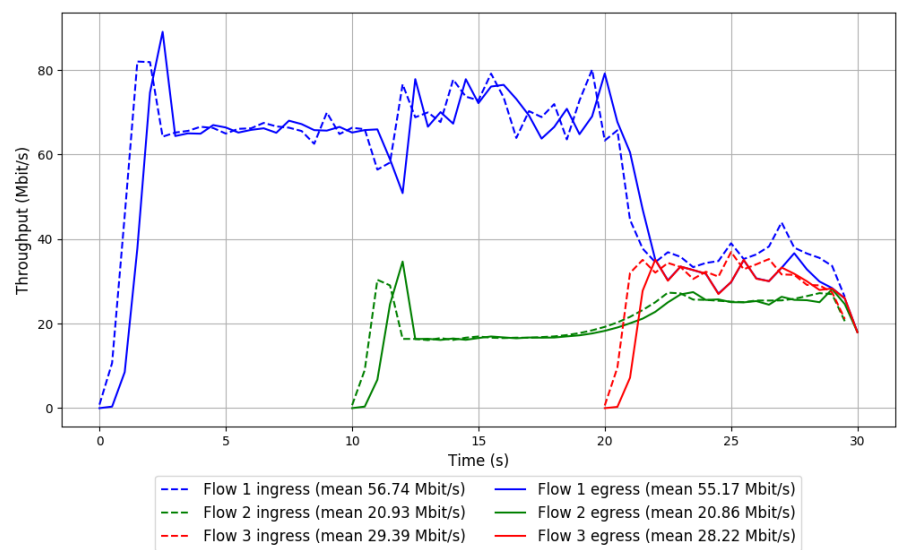
-- Flow 3:

Average throughput: 28.22 Mbit/s

95th percentile per-packet one-way delay: 131.868 ms

Loss rate: 5.78%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-22 16:28:19

End at: 2018-05-22 16:28:49

Local clock offset: -3.852 ms

Remote clock offset: 5.456 ms

Below is generated by plot.py at 2018-05-22 18:56:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.77 Mbit/s

95th percentile per-packet one-way delay: 111.302 ms

Loss rate: 5.13%

-- Flow 1:

Average throughput: 54.11 Mbit/s

95th percentile per-packet one-way delay: 108.693 ms

Loss rate: 6.52%

-- Flow 2:

Average throughput: 34.89 Mbit/s

95th percentile per-packet one-way delay: 113.259 ms

Loss rate: 2.51%

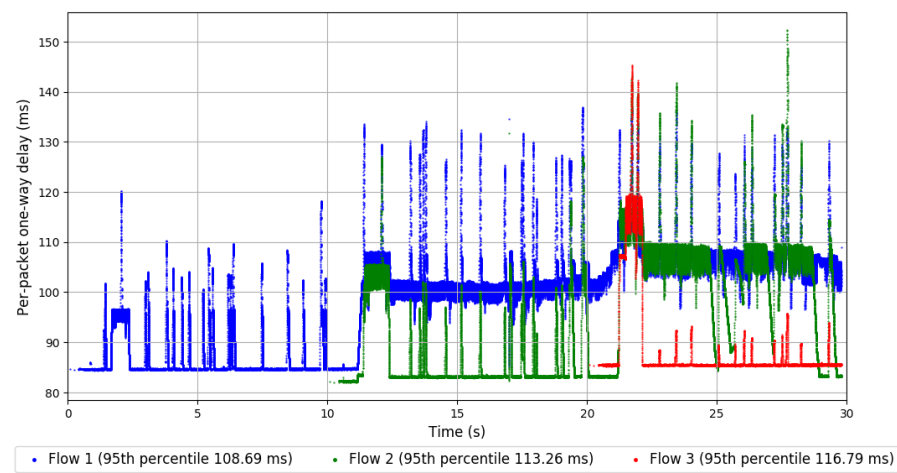
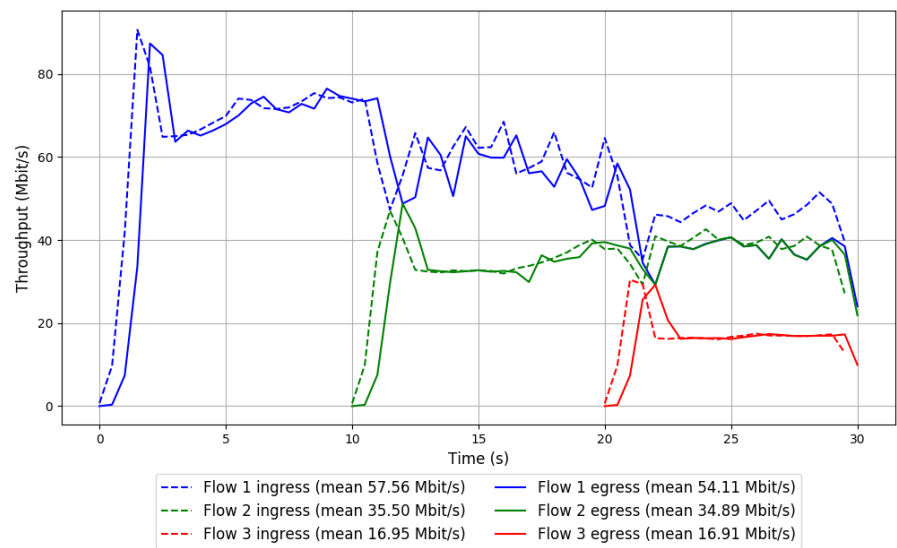
-- Flow 3:

Average throughput: 16.91 Mbit/s

95th percentile per-packet one-way delay: 116.789 ms

Loss rate: 1.92%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-22 16:47:59

End at: 2018-05-22 16:48:29

Local clock offset: -8.281 ms

Remote clock offset: 5.32 ms

Below is generated by plot.py at 2018-05-22 18:56:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.98 Mbit/s

95th percentile per-packet one-way delay: 114.750 ms

Loss rate: 5.82%

-- Flow 1:

Average throughput: 55.61 Mbit/s

95th percentile per-packet one-way delay: 109.166 ms

Loss rate: 6.54%

-- Flow 2:

Average throughput: 34.36 Mbit/s

95th percentile per-packet one-way delay: 116.322 ms

Loss rate: 4.78%

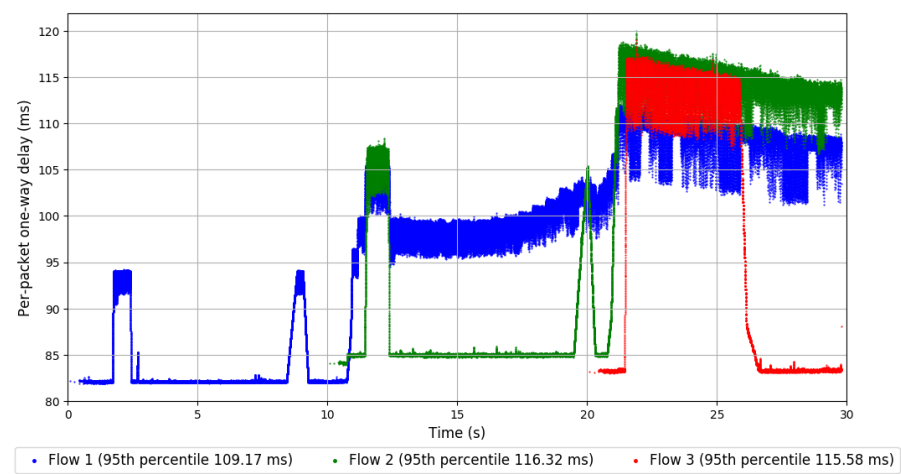
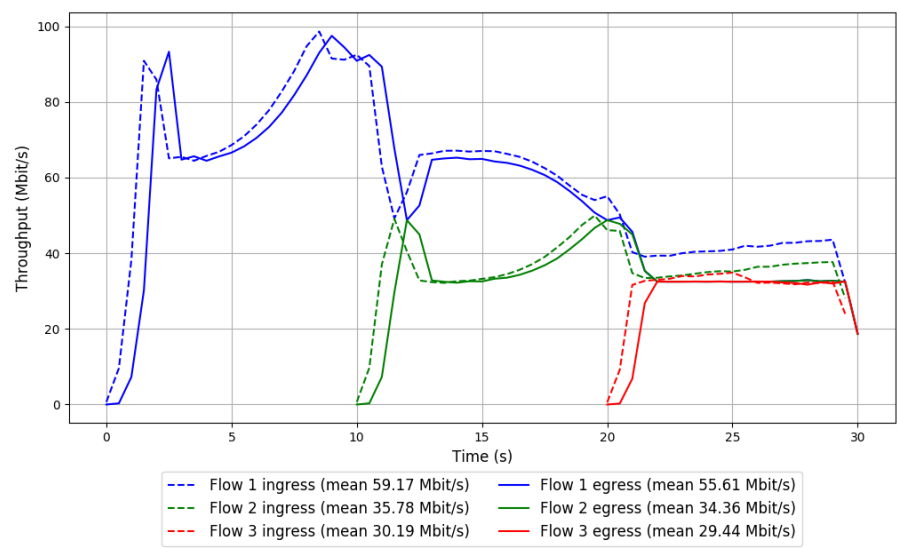
-- Flow 3:

Average throughput: 29.44 Mbit/s

95th percentile per-packet one-way delay: 115.576 ms

Loss rate: 4.06%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-22 17:07:39

End at: 2018-05-22 17:08:09

Local clock offset: -7.1 ms

Remote clock offset: 7.894 ms

Below is generated by plot.py at 2018-05-22 18:56:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.57 Mbit/s

95th percentile per-packet one-way delay: 111.513 ms

Loss rate: 5.78%

-- Flow 1:

Average throughput: 55.67 Mbit/s

95th percentile per-packet one-way delay: 107.888 ms

Loss rate: 6.65%

-- Flow 2:

Average throughput: 35.13 Mbit/s

95th percentile per-packet one-way delay: 113.099 ms

Loss rate: 4.34%

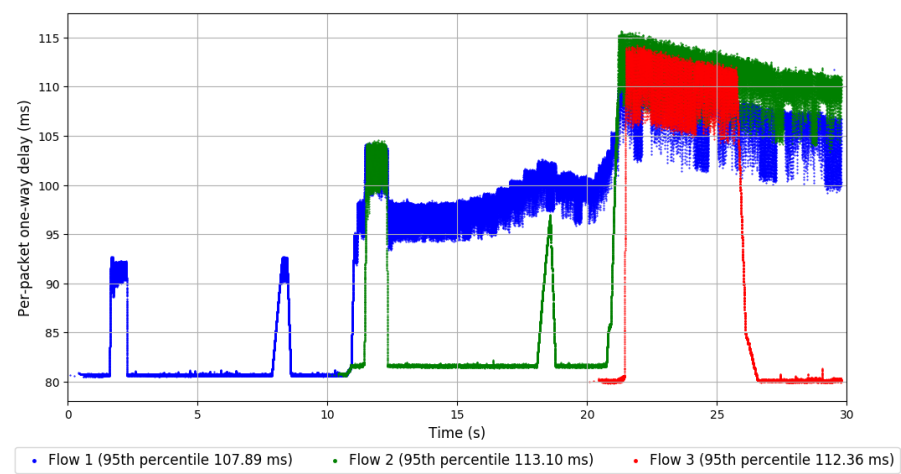
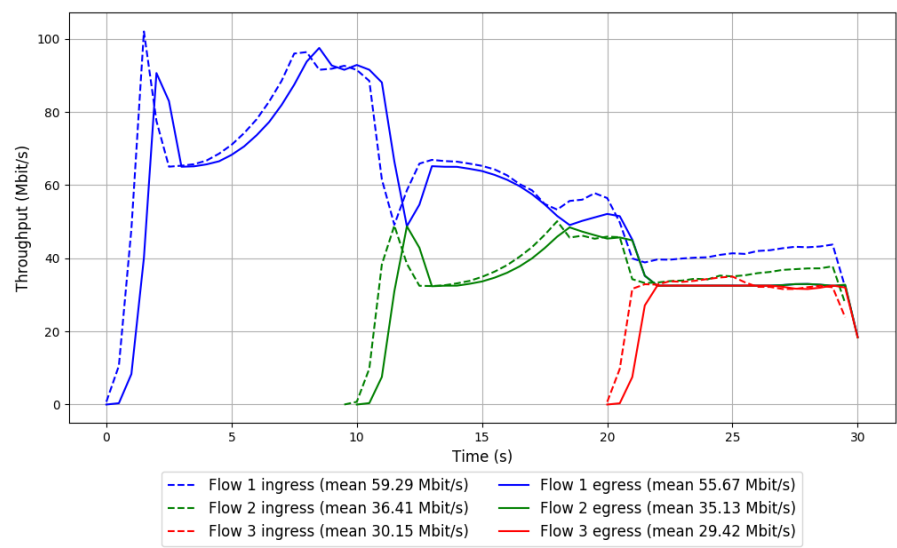
-- Flow 3:

Average throughput: 29.42 Mbit/s

95th percentile per-packet one-way delay: 112.355 ms

Loss rate: 4.04%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-22 17:27:19

End at: 2018-05-22 17:27:49

Local clock offset: -5.75 ms

Remote clock offset: 3.29 ms

Below is generated by plot.py at 2018-05-22 18:56:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.14 Mbit/s

95th percentile per-packet one-way delay: 117.819 ms

Loss rate: 6.19%

-- Flow 1:

Average throughput: 54.71 Mbit/s

95th percentile per-packet one-way delay: 111.877 ms

Loss rate: 7.07%

-- Flow 2:

Average throughput: 34.41 Mbit/s

95th percentile per-packet one-way delay: 118.887 ms

Loss rate: 4.91%

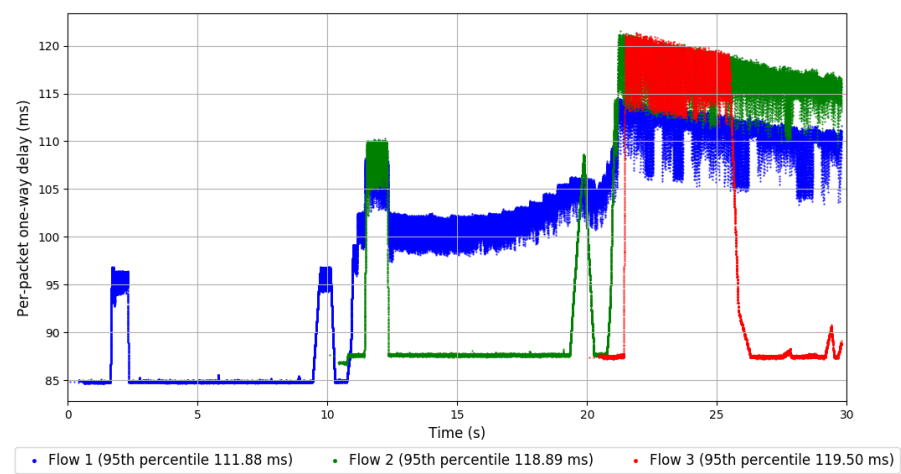
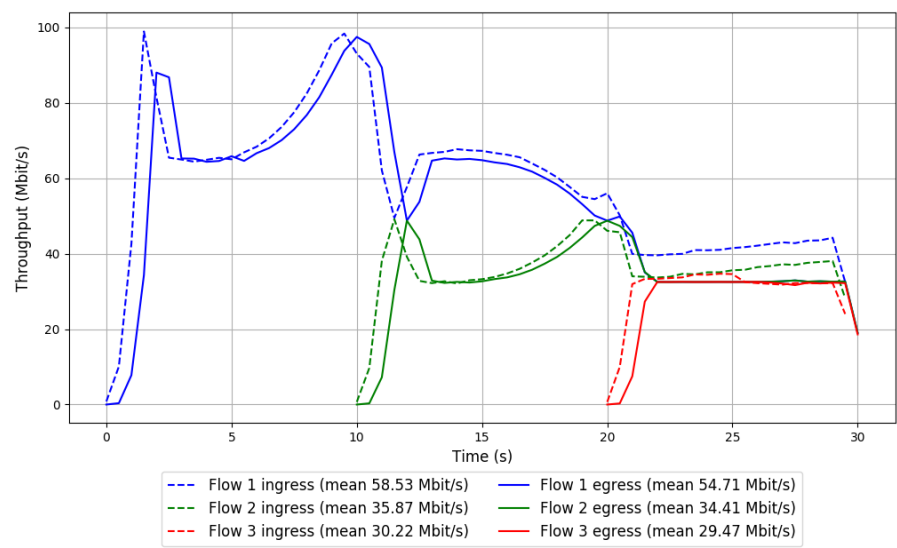
-- Flow 3:

Average throughput: 29.47 Mbit/s

95th percentile per-packet one-way delay: 119.498 ms

Loss rate: 4.14%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-22 17:47:00

End at: 2018-05-22 17:47:30

Local clock offset: 0.496 ms

Remote clock offset: 14.8 ms

Below is generated by plot.py at 2018-05-22 18:56:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.54 Mbit/s

95th percentile per-packet one-way delay: 111.473 ms

Loss rate: 6.08%

-- Flow 1:

Average throughput: 55.08 Mbit/s

95th percentile per-packet one-way delay: 107.648 ms

Loss rate: 6.92%

-- Flow 2:

Average throughput: 34.43 Mbit/s

95th percentile per-packet one-way delay: 112.499 ms

Loss rate: 4.83%

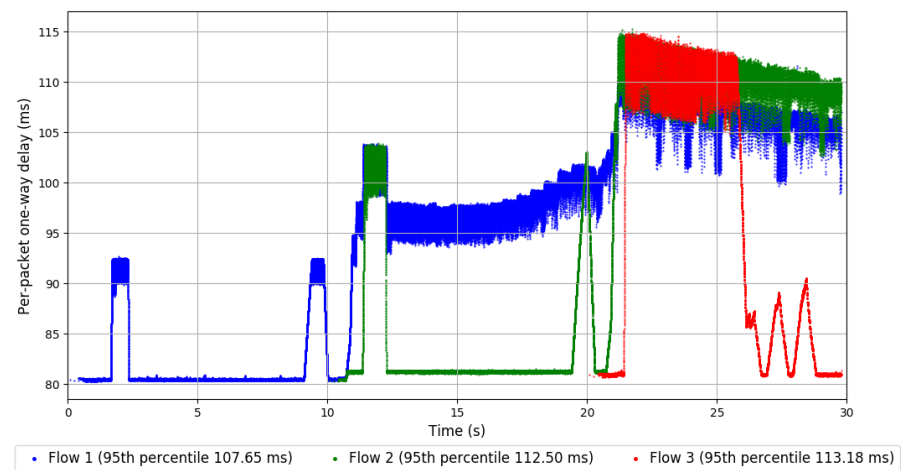
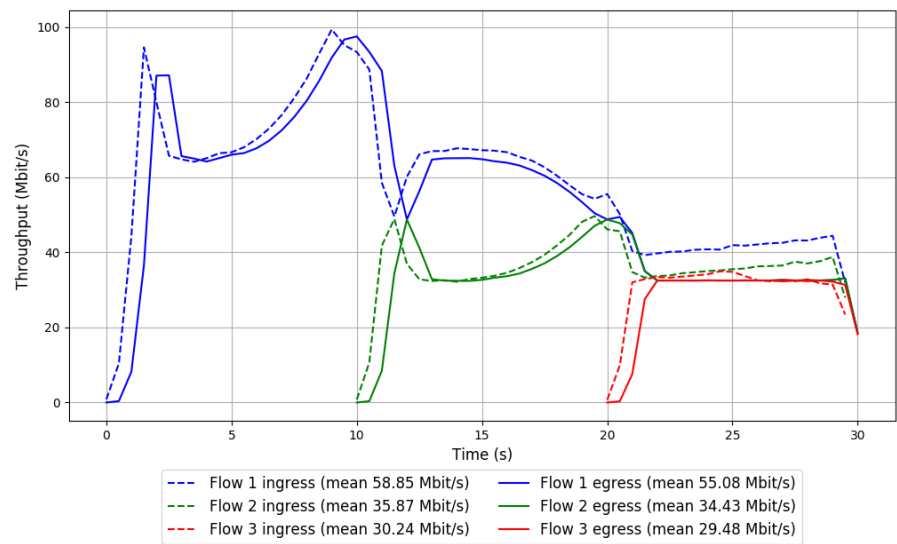
-- Flow 3:

Average throughput: 29.48 Mbit/s

95th percentile per-packet one-way delay: 113.176 ms

Loss rate: 4.11%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-22 18:06:40

End at: 2018-05-22 18:07:10

Local clock offset: -1.757 ms

Remote clock offset: 6.65 ms

Below is generated by plot.py at 2018-05-22 18:56:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.16 Mbit/s

95th percentile per-packet one-way delay: 114.942 ms

Loss rate: 5.75%

-- Flow 1:

Average throughput: 55.25 Mbit/s

95th percentile per-packet one-way delay: 109.691 ms

Loss rate: 6.59%

-- Flow 2:

Average throughput: 35.12 Mbit/s

95th percentile per-packet one-way delay: 115.374 ms

Loss rate: 4.39%

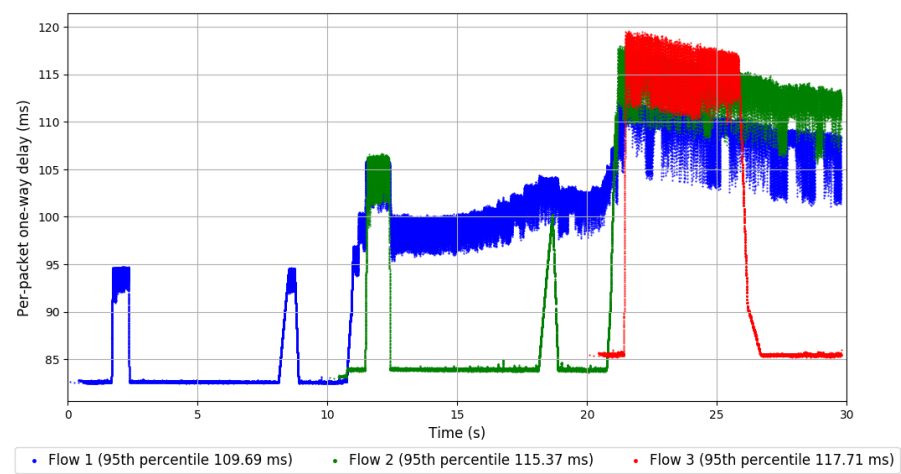
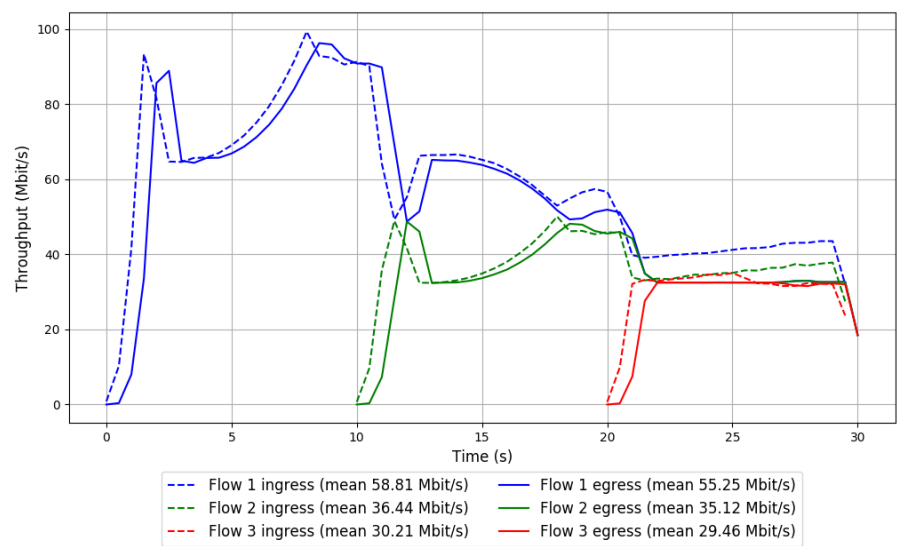
-- Flow 3:

Average throughput: 29.46 Mbit/s

95th percentile per-packet one-way delay: 117.706 ms

Loss rate: 4.12%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-22 18:26:20

End at: 2018-05-22 18:26:50

Local clock offset: -1.982 ms

Remote clock offset: 5.865 ms

Below is generated by plot.py at 2018-05-22 18:57:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.60 Mbit/s

95th percentile per-packet one-way delay: 111.314 ms

Loss rate: 5.97%

-- Flow 1:

Average throughput: 54.68 Mbit/s

95th percentile per-packet one-way delay: 105.326 ms

Loss rate: 6.95%

-- Flow 2:

Average throughput: 35.14 Mbit/s

95th percentile per-packet one-way delay: 112.994 ms

Loss rate: 4.43%

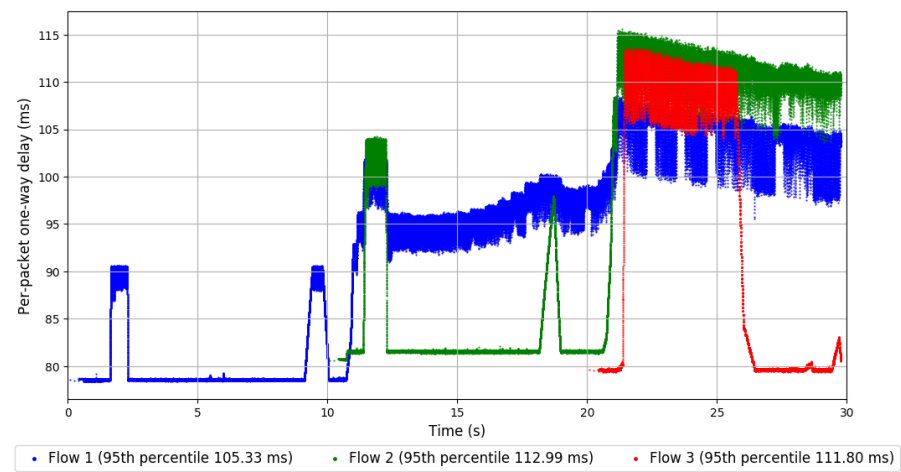
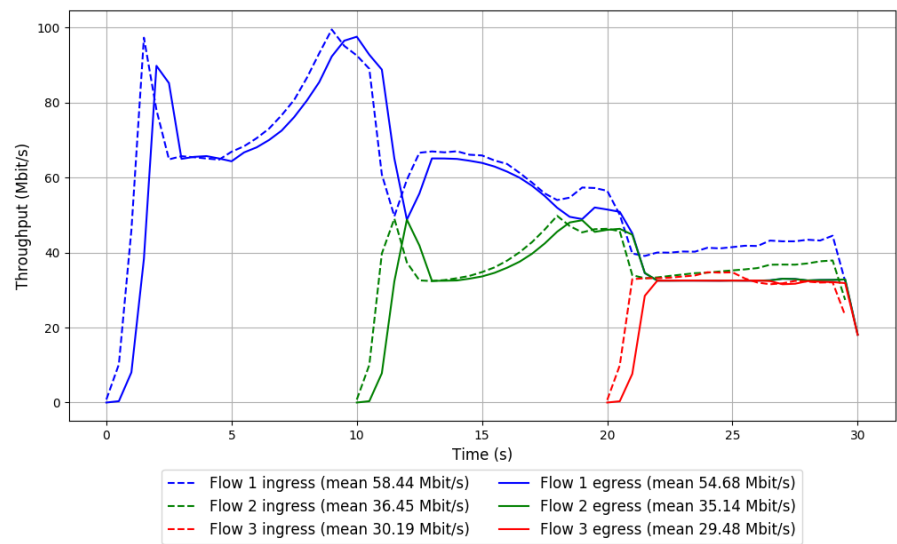
-- Flow 3:

Average throughput: 29.48 Mbit/s

95th percentile per-packet one-way delay: 111.800 ms

Loss rate: 3.98%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-22 18:46:00

End at: 2018-05-22 18:46:30

Local clock offset: -3.41 ms

Remote clock offset: 2.975 ms

Below is generated by plot.py at 2018-05-22 18:57:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.30 Mbit/s

95th percentile per-packet one-way delay: 115.486 ms

Loss rate: 5.88%

-- Flow 1:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 110.372 ms

Loss rate: 6.53%

-- Flow 2:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 116.959 ms

Loss rate: 5.00%

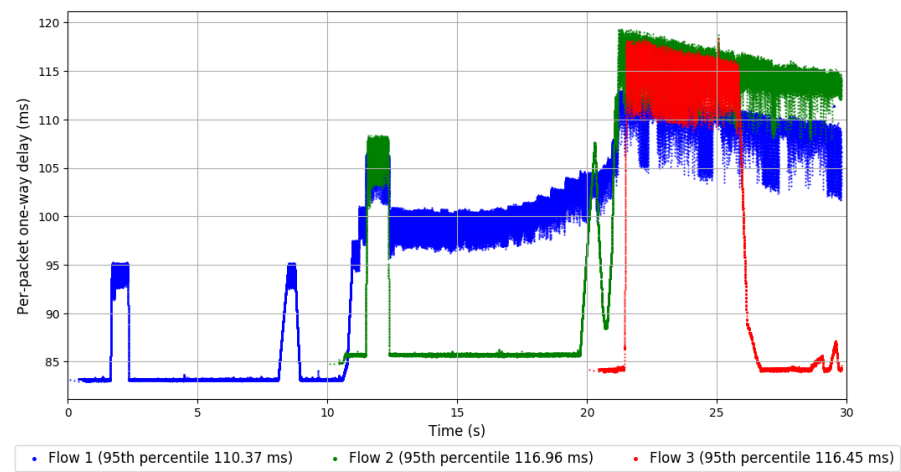
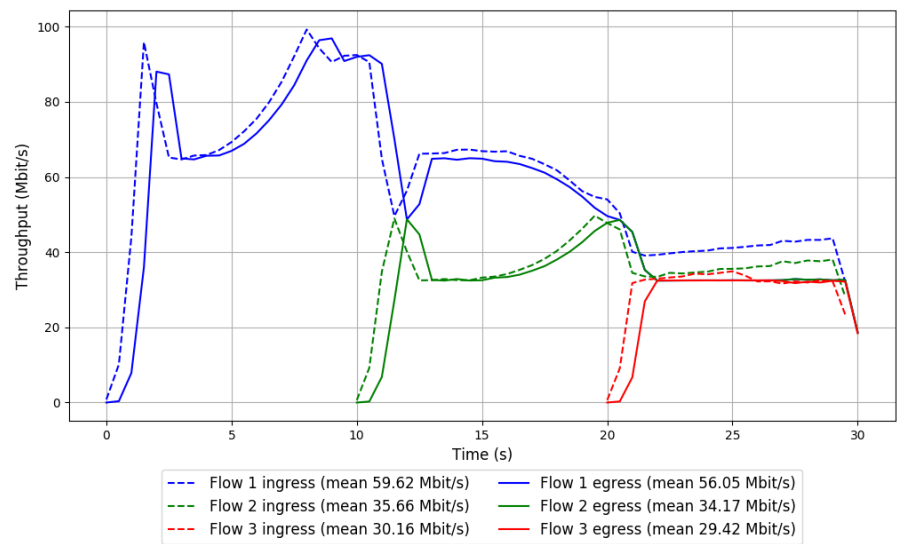
-- Flow 3:

Average throughput: 29.42 Mbit/s

95th percentile per-packet one-way delay: 116.453 ms

Loss rate: 4.07%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-05-22 15:34:23

End at: 2018-05-22 15:34:53

Local clock offset: -2.253 ms

Remote clock offset: 2.441 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-05-22 15:53:59

End at: 2018-05-22 15:54:29

Local clock offset: -1.431 ms

Remote clock offset: 7.788 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-05-22 16:13:34

End at: 2018-05-22 16:14:04

Local clock offset: -2.378 ms

Remote clock offset: 5.141 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-05-22 16:33:10

End at: 2018-05-22 16:33:40

Local clock offset: -5.027 ms

Remote clock offset: 9.124 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-05-22 16:52:51

End at: 2018-05-22 16:53:21

Local clock offset: -7.912 ms

Remote clock offset: 8.302 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-05-22 17:12:31

End at: 2018-05-22 17:13:01

Local clock offset: -7.014 ms

Remote clock offset: 3.927 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-05-22 17:32:11

End at: 2018-05-22 17:32:41

Local clock offset: -3.885 ms

Remote clock offset: 6.983 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-05-22 17:51:52

End at: 2018-05-22 17:52:22

Local clock offset: 0.224 ms

Remote clock offset: 15.5 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-05-22 18:11:32

End at: 2018-05-22 18:12:02

Local clock offset: -1.187 ms

Remote clock offset: 4.382 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-05-22 18:31:12

End at: 2018-05-22 18:31:42

Local clock offset: -2.675 ms

Remote clock offset: 0.843 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

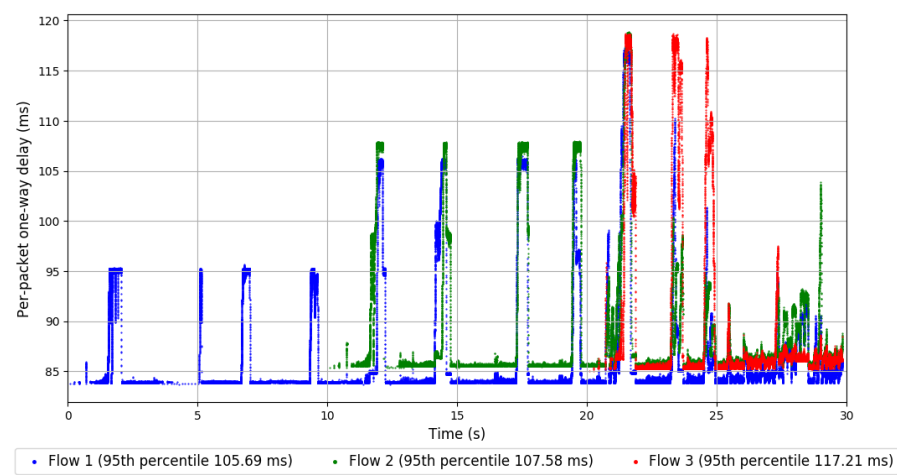
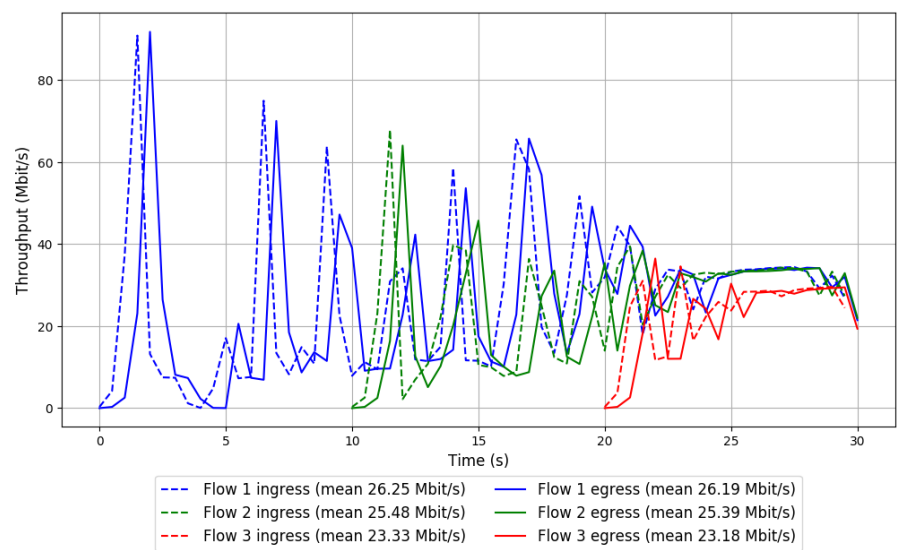
Figure is missing

Run 1: Statistics of QUIC Cubic

Start at: 2018-05-22 15:31:55
End at: 2018-05-22 15:32:25
Local clock offset: -2.124 ms
Remote clock offset: -1.946 ms

Below is generated by plot.py at 2018-05-22 18:57:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.62 Mbit/s
95th percentile per-packet one-way delay: 107.421 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 26.19 Mbit/s
95th percentile per-packet one-way delay: 105.694 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 25.39 Mbit/s
95th percentile per-packet one-way delay: 107.576 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 23.18 Mbit/s
95th percentile per-packet one-way delay: 117.212 ms
Loss rate: 2.26%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-22 15:51:32

End at: 2018-05-22 15:52:02

Local clock offset: -2.232 ms

Remote clock offset: 5.113 ms

Below is generated by plot.py at 2018-05-22 18:57:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 106.510 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 27.54 Mbit/s

95th percentile per-packet one-way delay: 103.505 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 20.66 Mbit/s

95th percentile per-packet one-way delay: 104.363 ms

Loss rate: 0.93%

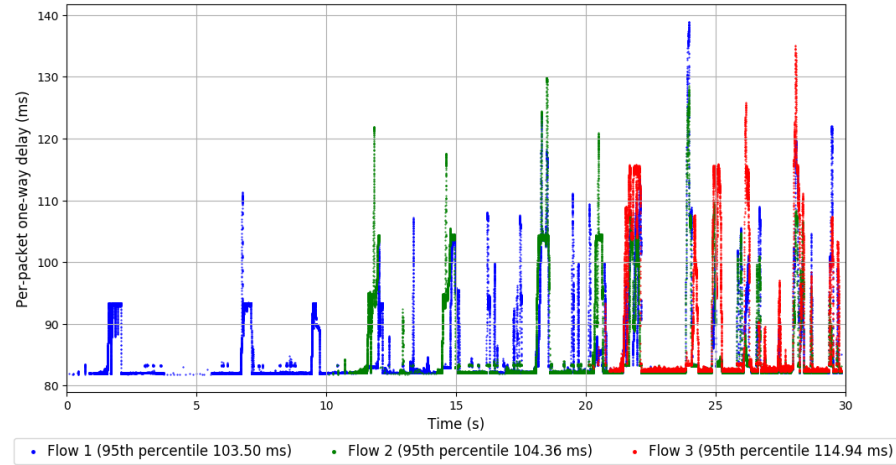
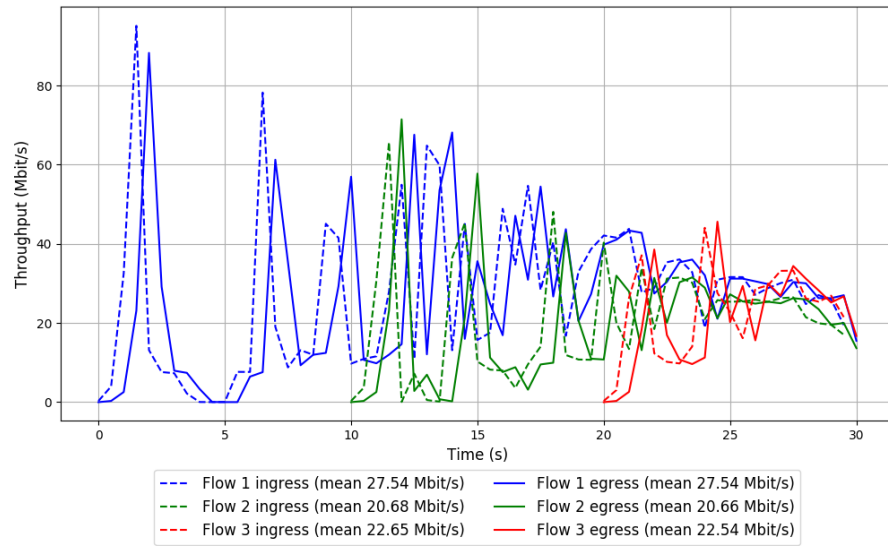
-- Flow 3:

Average throughput: 22.54 Mbit/s

95th percentile per-packet one-way delay: 114.940 ms

Loss rate: 2.15%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-22 16:11:07

End at: 2018-05-22 16:11:37

Local clock offset: -1.625 ms

Remote clock offset: 4.931 ms

Below is generated by plot.py at 2018-05-22 18:57:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.56 Mbit/s

95th percentile per-packet one-way delay: 109.337 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 23.93 Mbit/s

95th percentile per-packet one-way delay: 106.627 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 25.18 Mbit/s

95th percentile per-packet one-way delay: 107.906 ms

Loss rate: 0.69%

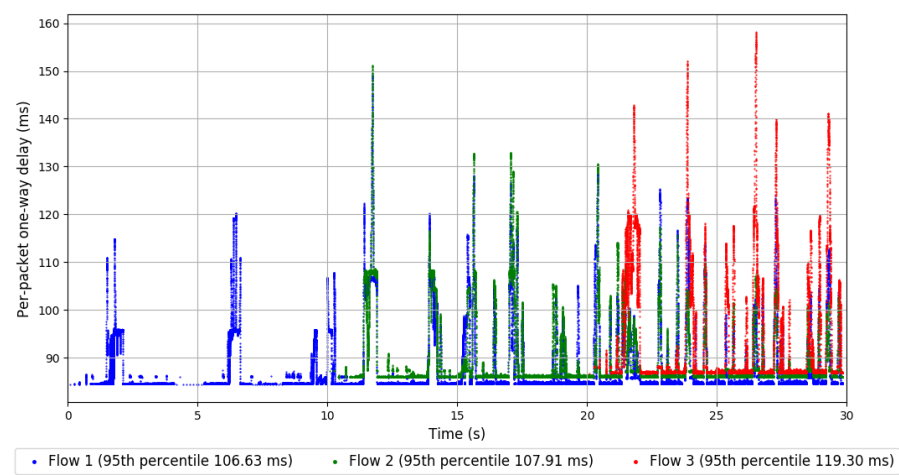
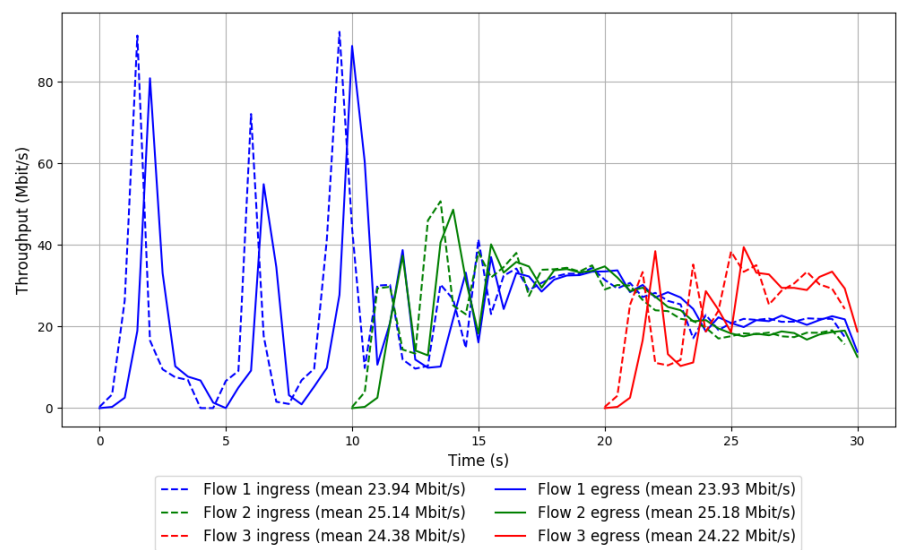
-- Flow 3:

Average throughput: 24.22 Mbit/s

95th percentile per-packet one-way delay: 119.295 ms

Loss rate: 2.29%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-22 16:30:43

End at: 2018-05-22 16:31:13

Local clock offset: -4.923 ms

Remote clock offset: 5.328 ms

Below is generated by plot.py at 2018-05-22 18:57:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.46 Mbit/s

95th percentile per-packet one-way delay: 110.694 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 29.55 Mbit/s

95th percentile per-packet one-way delay: 106.324 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 20.75 Mbit/s

95th percentile per-packet one-way delay: 108.042 ms

Loss rate: 1.13%

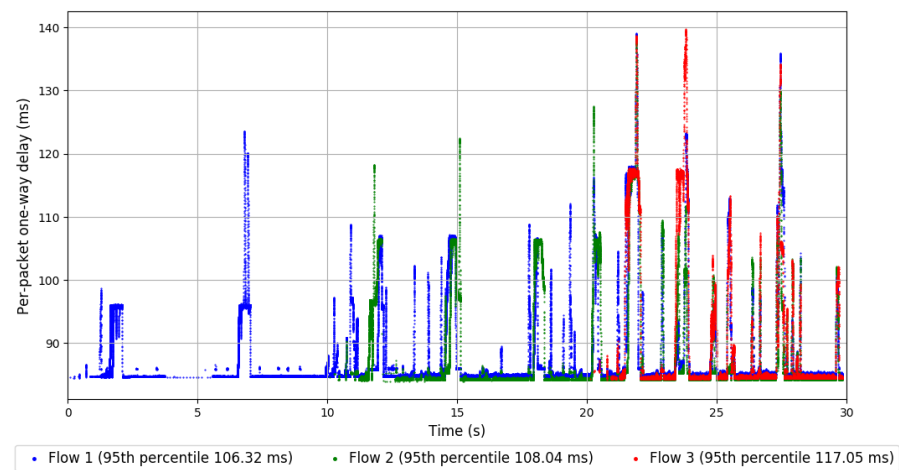
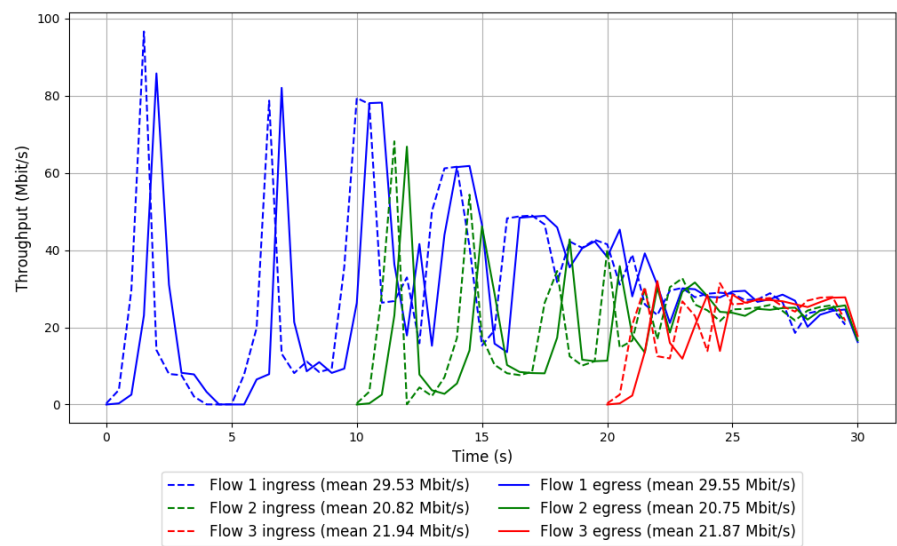
-- Flow 3:

Average throughput: 21.87 Mbit/s

95th percentile per-packet one-way delay: 117.049 ms

Loss rate: 1.99%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-22 16:50:23

End at: 2018-05-22 16:50:53

Local clock offset: -8.504 ms

Remote clock offset: 9.17 ms

Below is generated by plot.py at 2018-05-22 18:57:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.17 Mbit/s

95th percentile per-packet one-way delay: 100.599 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 33.25 Mbit/s

95th percentile per-packet one-way delay: 100.300 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: 100.581 ms

Loss rate: 1.18%

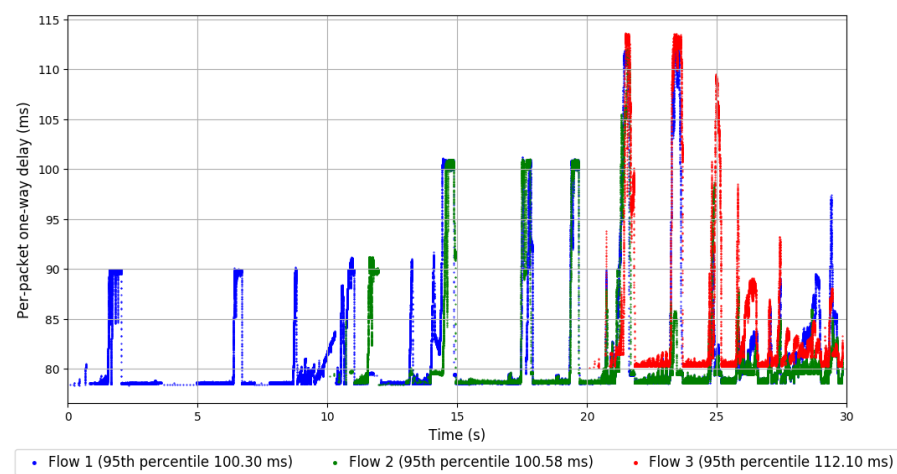
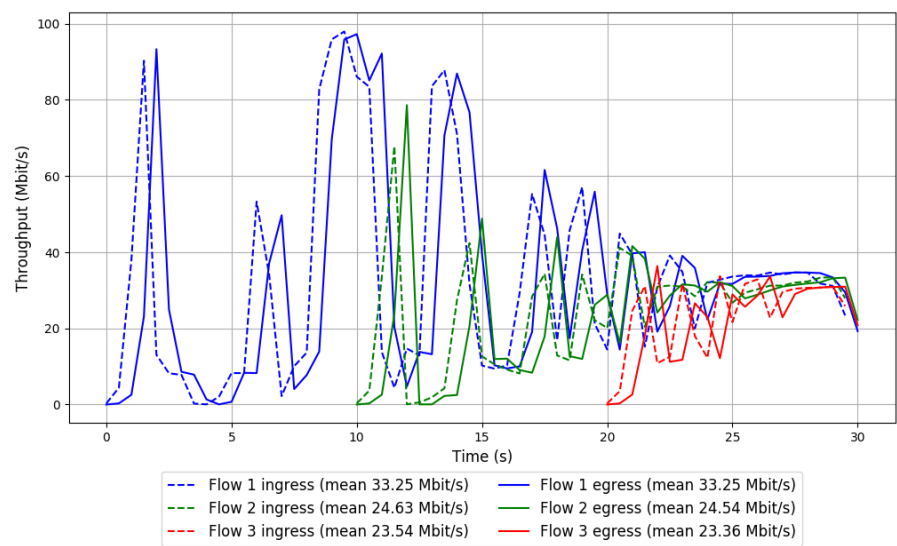
-- Flow 3:

Average throughput: 23.36 Mbit/s

95th percentile per-packet one-way delay: 112.102 ms

Loss rate: 2.38%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-22 17:10:03

End at: 2018-05-22 17:10:33

Local clock offset: -7.044 ms

Remote clock offset: 4.023 ms

Below is generated by plot.py at 2018-05-22 18:57:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 106.980 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 31.16 Mbit/s

95th percentile per-packet one-way delay: 106.703 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 18.75 Mbit/s

95th percentile per-packet one-way delay: 107.474 ms

Loss rate: 1.29%

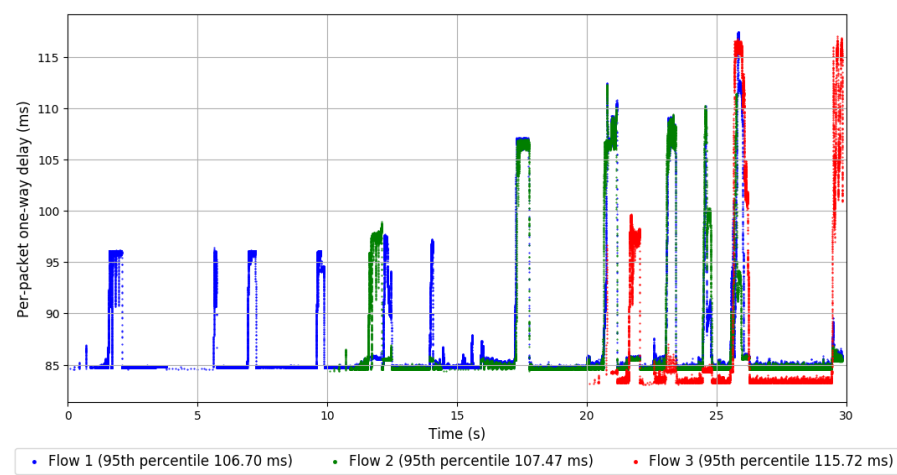
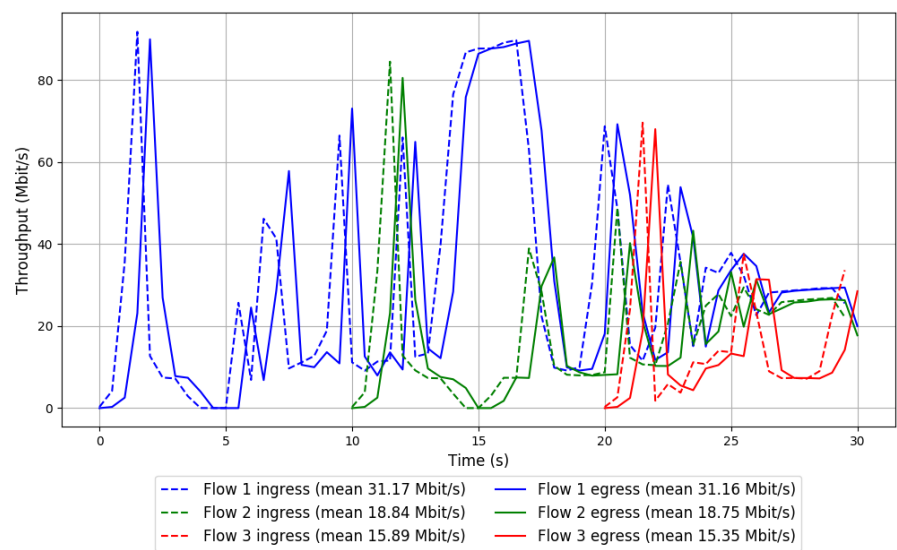
-- Flow 3:

Average throughput: 15.35 Mbit/s

95th percentile per-packet one-way delay: 115.720 ms

Loss rate: 4.96%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-22 17:29:43

End at: 2018-05-22 17:30:13

Local clock offset: -5.049 ms

Remote clock offset: 9.688 ms

Below is generated by plot.py at 2018-05-22 18:58:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.26 Mbit/s

95th percentile per-packet one-way delay: 101.356 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 30.25 Mbit/s

95th percentile per-packet one-way delay: 100.994 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 19.31 Mbit/s

95th percentile per-packet one-way delay: 101.285 ms

Loss rate: 1.26%

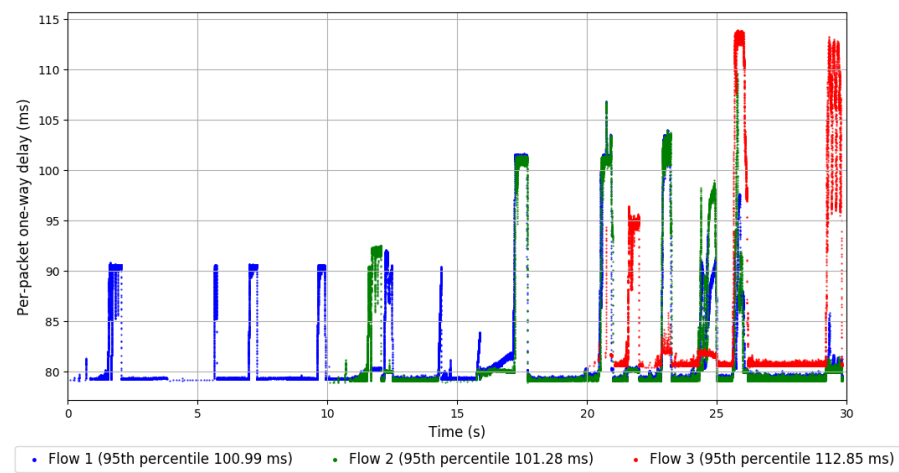
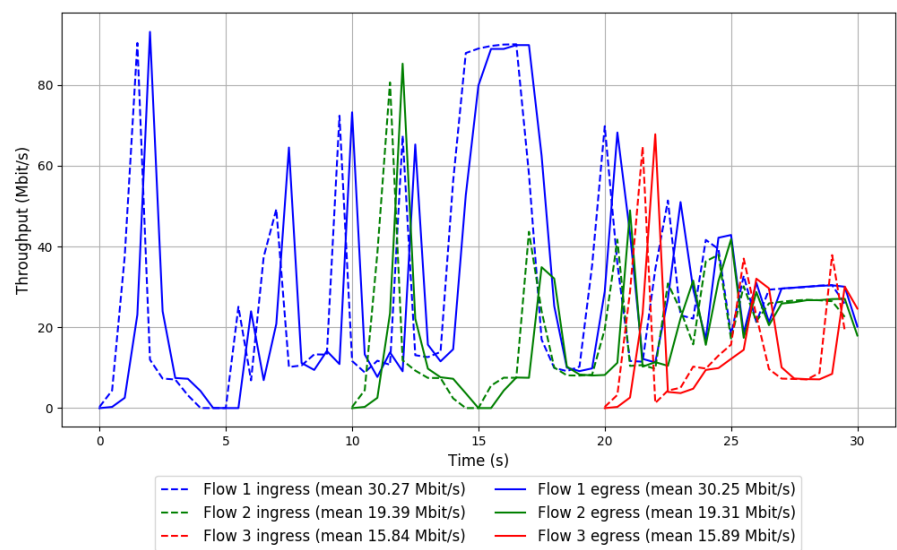
-- Flow 3:

Average throughput: 15.89 Mbit/s

95th percentile per-packet one-way delay: 112.854 ms

Loss rate: 1.34%

Run 7: Report of QUIC Cubic — Data Link

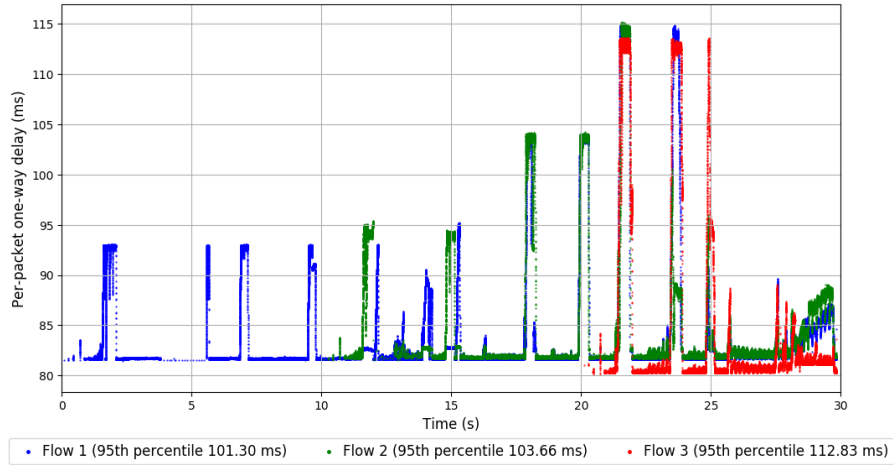
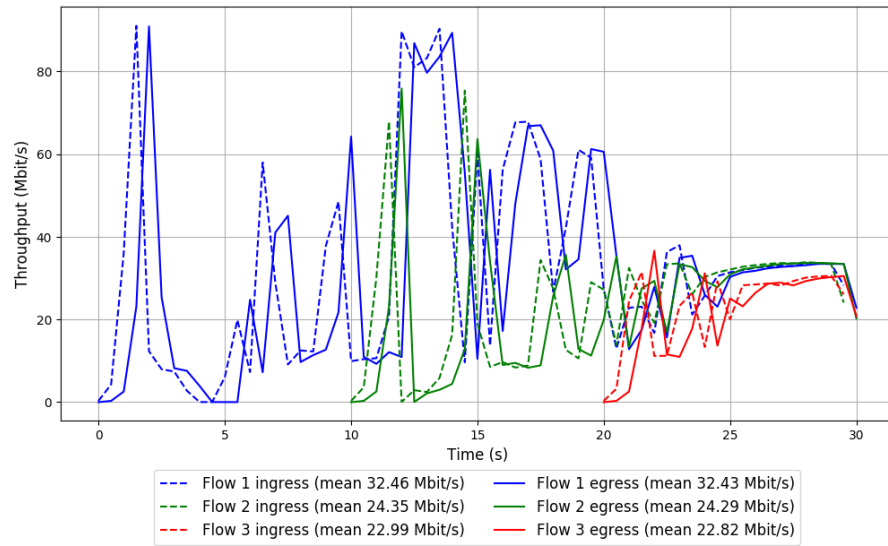


Run 8: Statistics of QUIC Cubic

Start at: 2018-05-22 17:49:24
End at: 2018-05-22 17:49:54
Local clock offset: 0.772 ms
Remote clock offset: 15.027 ms

```
# Below is generated by plot.py at 2018-05-22 18:58:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.00 Mbit/s
95th percentile per-packet one-way delay: 103.715 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 32.43 Mbit/s
95th percentile per-packet one-way delay: 101.298 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 103.662 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 22.82 Mbit/s
95th percentile per-packet one-way delay: 112.831 ms
Loss rate: 2.38%
```

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-22 18:09:04

End at: 2018-05-22 18:09:34

Local clock offset: -1.166 ms

Remote clock offset: 5.228 ms

Below is generated by plot.py at 2018-05-22 18:58:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.32 Mbit/s

95th percentile per-packet one-way delay: 109.080 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 105.832 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 19.34 Mbit/s

95th percentile per-packet one-way delay: 117.764 ms

Loss rate: 1.72%

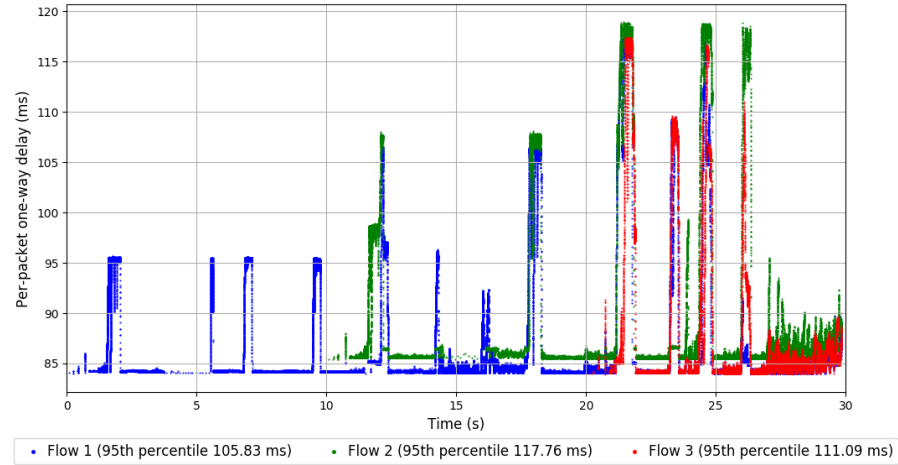
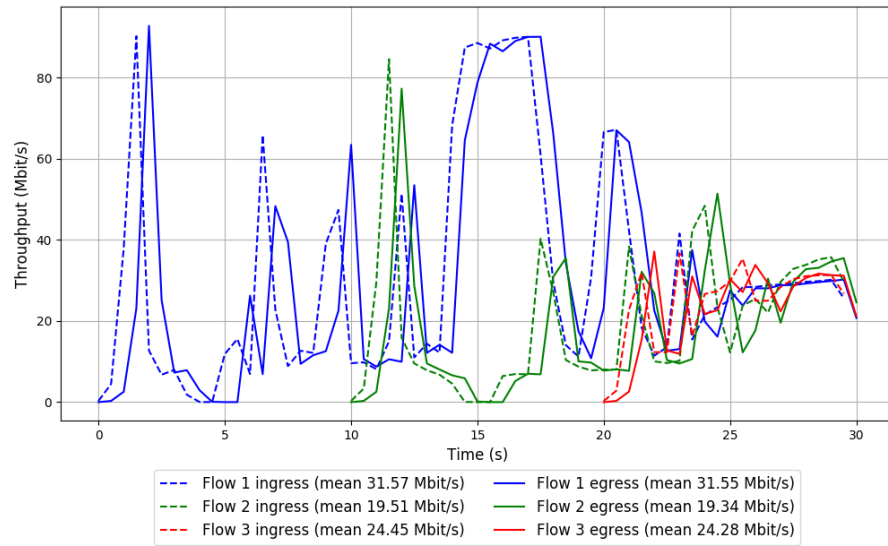
-- Flow 3:

Average throughput: 24.28 Mbit/s

95th percentile per-packet one-way delay: 111.094 ms

Loss rate: 2.28%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-22 18:28:44

End at: 2018-05-22 18:29:14

Local clock offset: -0.814 ms

Remote clock offset: 6.518 ms

Below is generated by plot.py at 2018-05-22 18:58:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.24 Mbit/s

95th percentile per-packet one-way delay: 103.595 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 35.35 Mbit/s

95th percentile per-packet one-way delay: 100.168 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 22.28 Mbit/s

95th percentile per-packet one-way delay: 103.508 ms

Loss rate: 1.15%

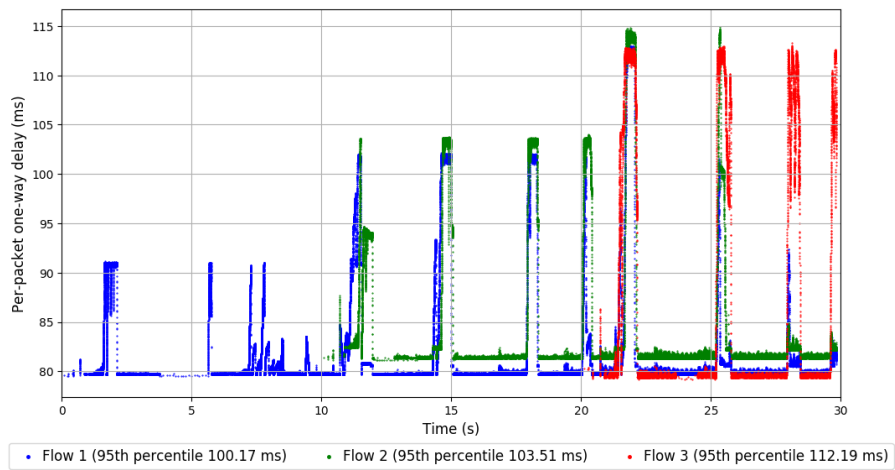
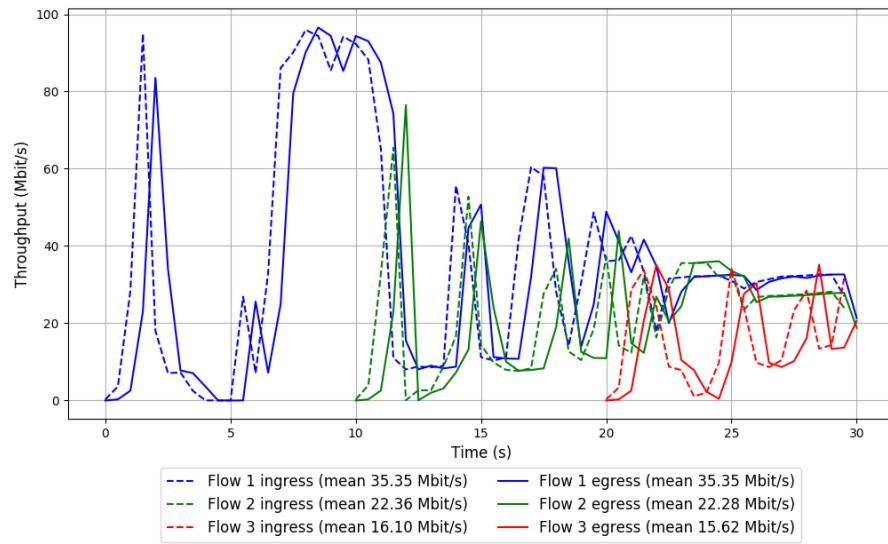
-- Flow 3:

Average throughput: 15.62 Mbit/s

95th percentile per-packet one-way delay: 112.186 ms

Loss rate: 4.54%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SReAM

Start at: 2018-05-22 15:35:33

End at: 2018-05-22 15:36:03

Local clock offset: -1.514 ms

Remote clock offset: 3.175 ms

Below is generated by plot.py at 2018-05-22 18:58:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 81.104 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.782 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.117 ms

Loss rate: 0.82%

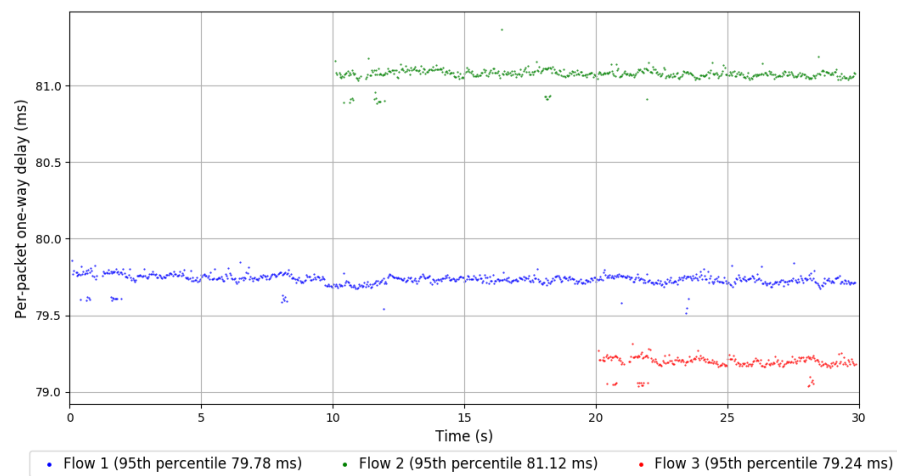
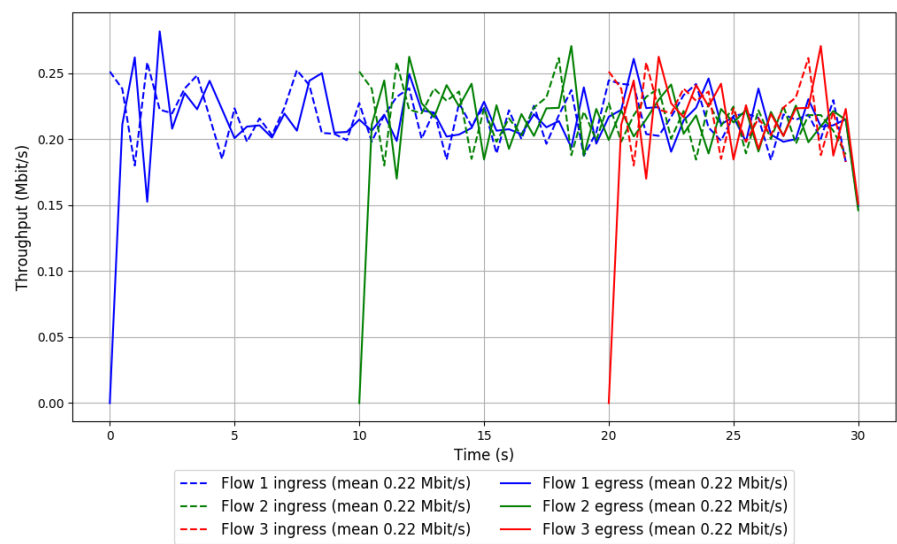
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.237 ms

Loss rate: 1.45%

Run 1: Report of SReAM — Data Link

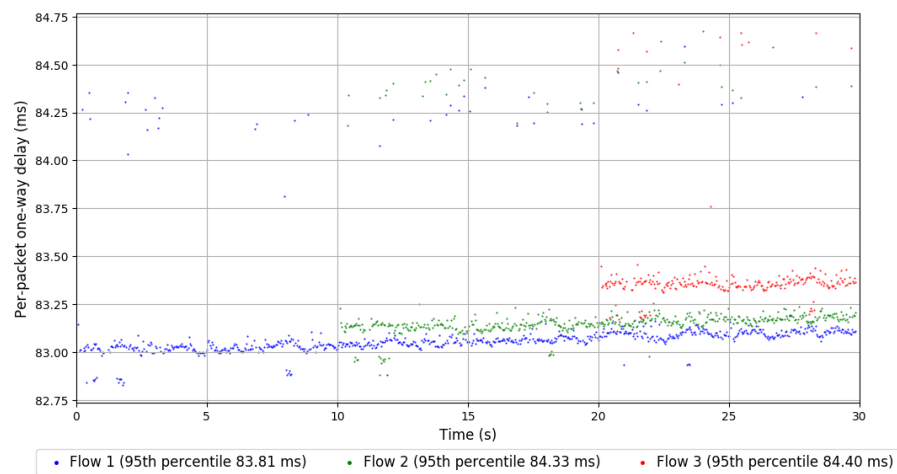
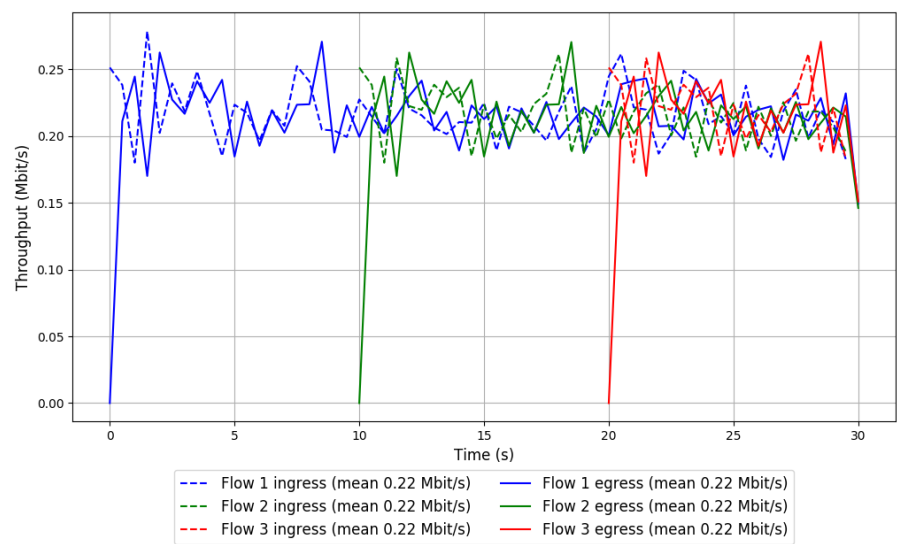


Run 2: Statistics of SReAM

Start at: 2018-05-22 15:55:10
End at: 2018-05-22 15:55:40
Local clock offset: -3.008 ms
Remote clock offset: 2.506 ms

Below is generated by plot.py at 2018-05-22 18:58:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 84.192 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.814 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.326 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.396 ms
Loss rate: 1.45%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-05-22 16:14:44

End at: 2018-05-22 16:15:14

Local clock offset: -2.365 ms

Remote clock offset: 6.044 ms

Below is generated by plot.py at 2018-05-22 18:58:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 84.815 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.423 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.744 ms

Loss rate: 0.82%

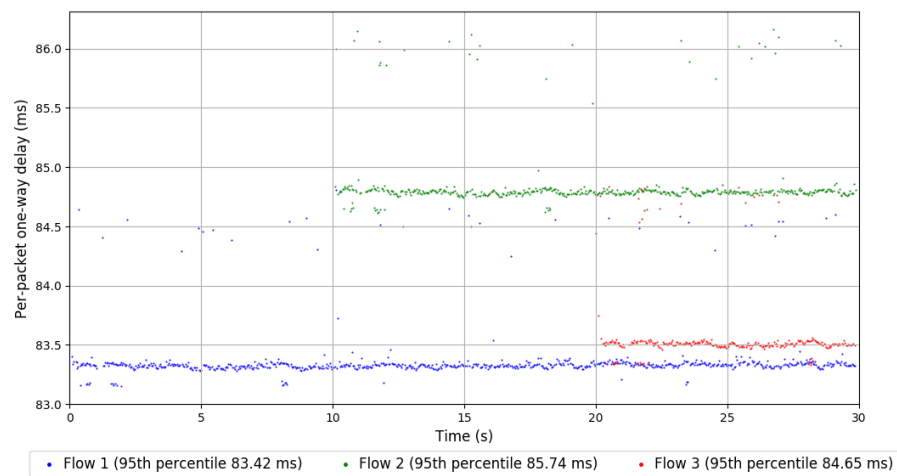
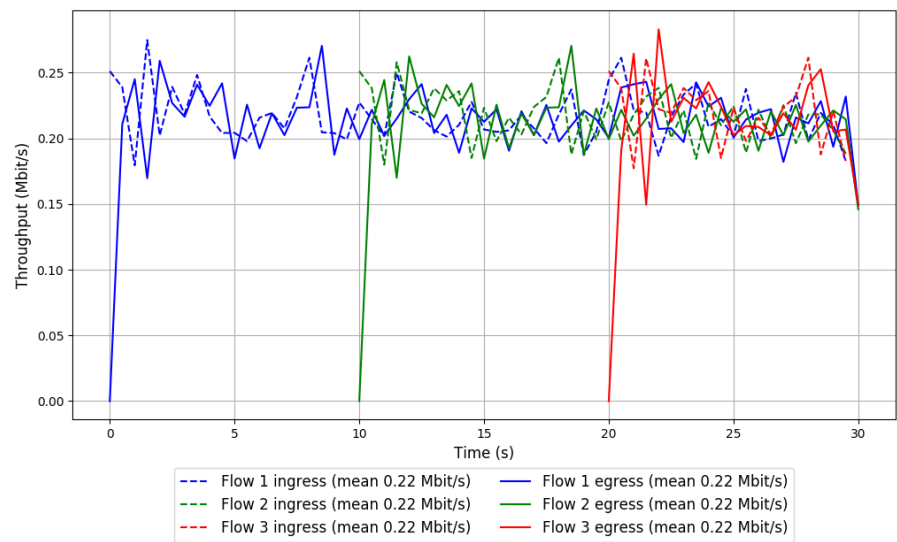
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.646 ms

Loss rate: 1.84%

Run 3: Report of SCSReAM — Data Link

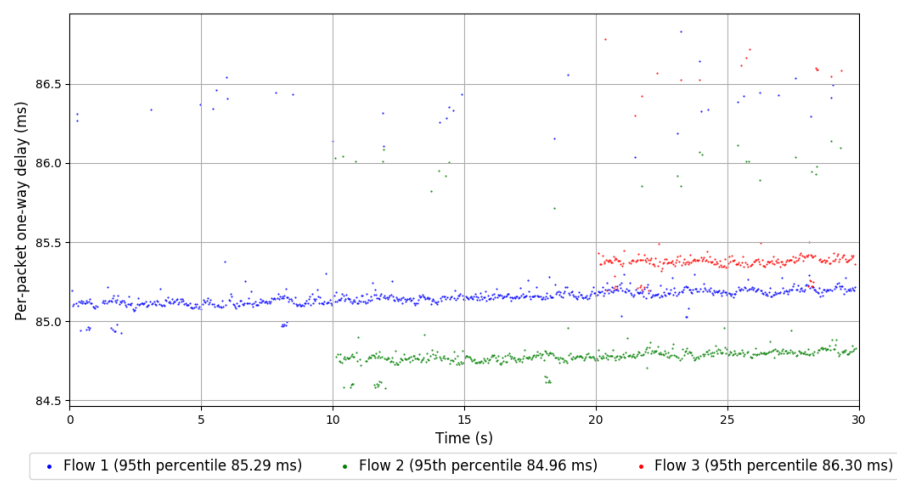
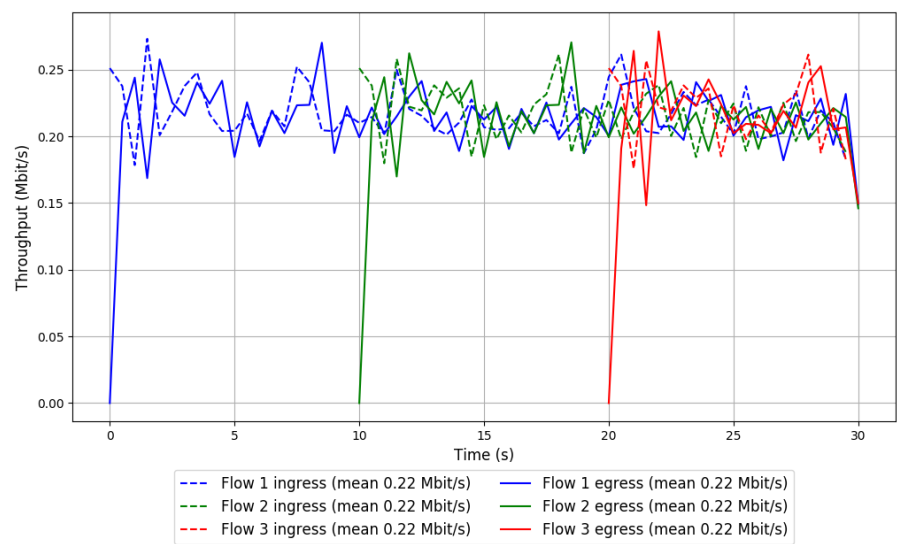


Run 4: Statistics of SReAM

Start at: 2018-05-22 16:34:21
End at: 2018-05-22 16:34:51
Local clock offset: -6.134 ms
Remote clock offset: 4.51 ms

Below is generated by plot.py at 2018-05-22 18:58:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.443 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.287 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.957 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.297 ms
Loss rate: 1.84%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-05-22 16:54:01

End at: 2018-05-22 16:54:31

Local clock offset: -8.834 ms

Remote clock offset: 8.181 ms

Below is generated by plot.py at 2018-05-22 18:58:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 81.177 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.189 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.856 ms

Loss rate: 0.82%

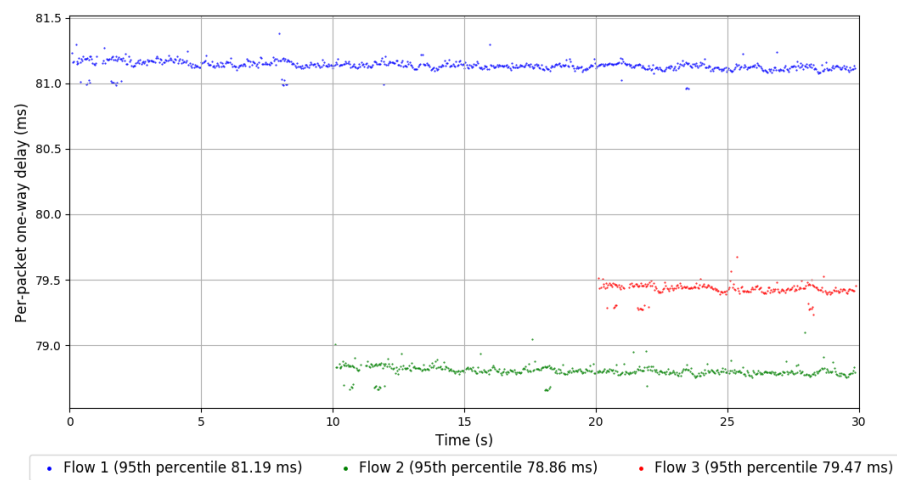
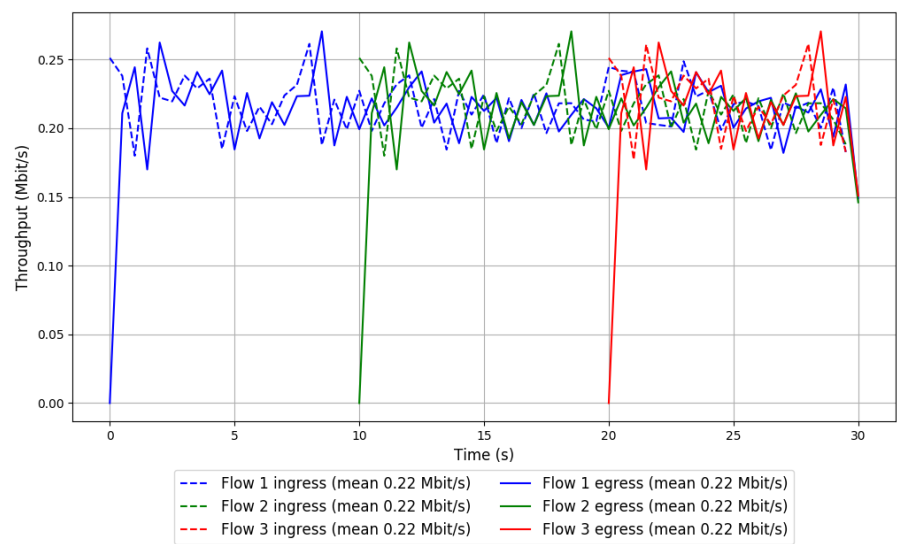
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.475 ms

Loss rate: 1.45%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-05-22 17:13:41

End at: 2018-05-22 17:14:11

Local clock offset: -7.066 ms

Remote clock offset: 3.928 ms

Below is generated by plot.py at 2018-05-22 18:58:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 83.298 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.307 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.107 ms

Loss rate: 0.82%

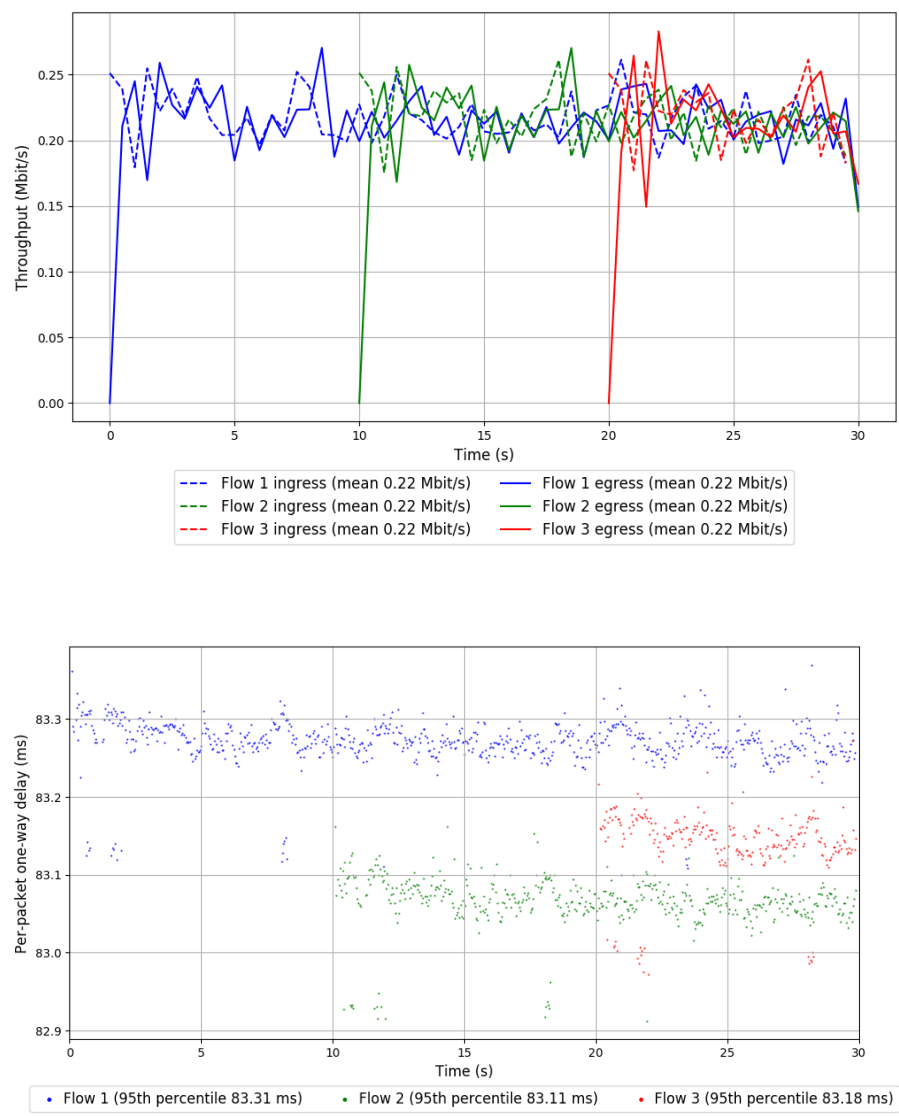
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.184 ms

Loss rate: 1.45%

Run 6: Report of SReAM — Data Link

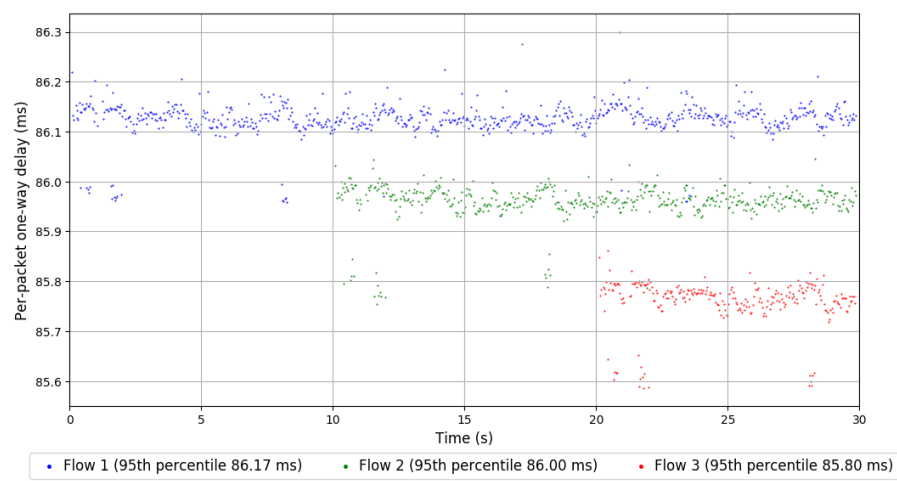
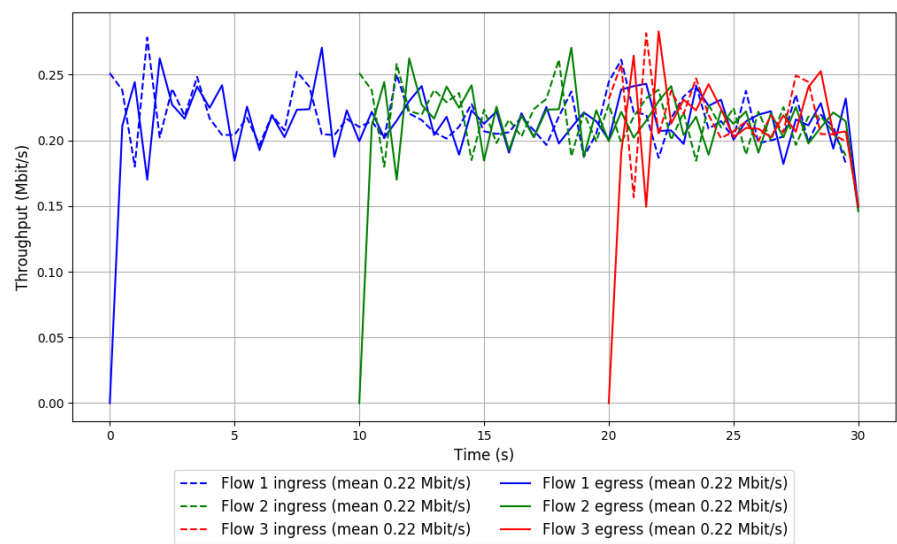


Run 7: Statistics of SReAM

Start at: 2018-05-22 17:33:22
End at: 2018-05-22 17:33:52
Local clock offset: -3.297 ms
Remote clock offset: 6.577 ms

Below is generated by plot.py at 2018-05-22 18:58:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 86.154 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.165 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.997 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.799 ms
Loss rate: 1.84%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-22 17:53:02

End at: 2018-05-22 17:53:32

Local clock offset: 0.318 ms

Remote clock offset: 10.95 ms

Below is generated by plot.py at 2018-05-22 18:58:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 85.941 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.996 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.305 ms

Loss rate: 0.82%

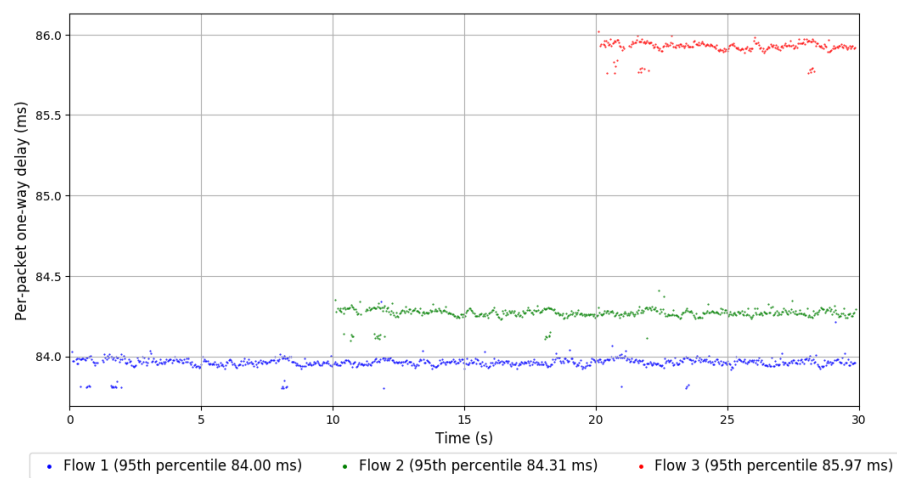
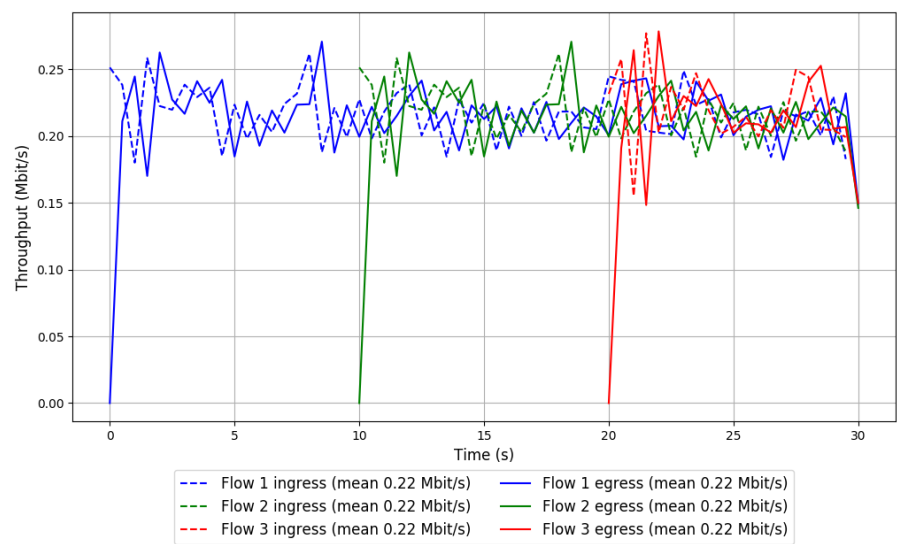
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.965 ms

Loss rate: 1.84%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-05-22 18:12:42

End at: 2018-05-22 18:13:12

Local clock offset: -1.22 ms

Remote clock offset: 3.953 ms

Below is generated by plot.py at 2018-05-22 18:58:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 85.719 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.131 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.748 ms

Loss rate: 0.82%

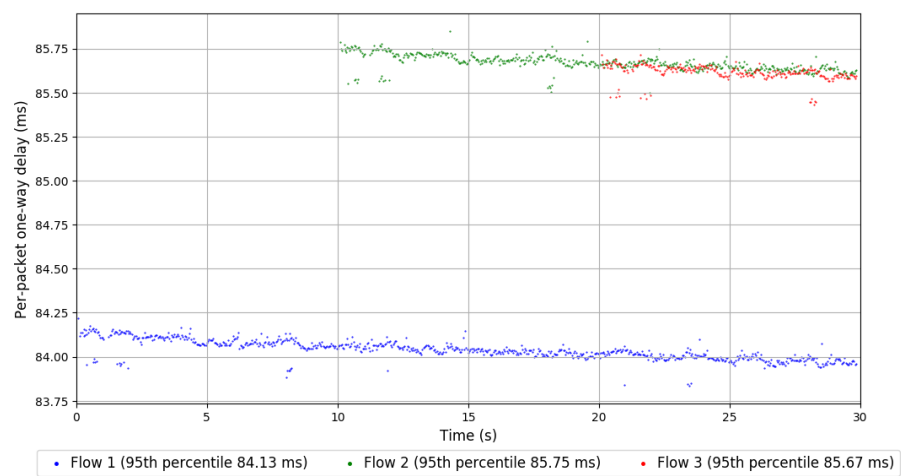
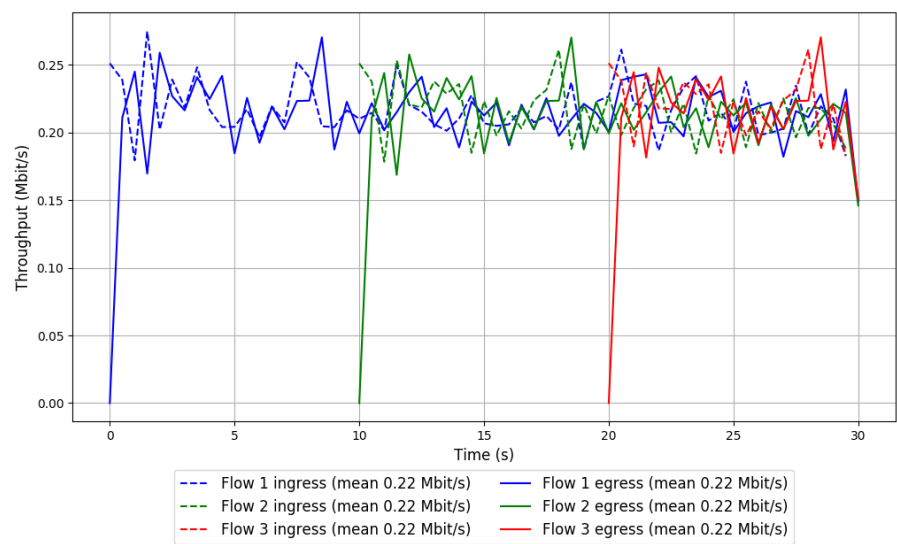
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.666 ms

Loss rate: 1.45%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-22 18:32:22

End at: 2018-05-22 18:32:52

Local clock offset: -2.787 ms

Remote clock offset: 5.355 ms

Below is generated by plot.py at 2018-05-22 18:58:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 78.798 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.320 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.810 ms

Loss rate: 0.82%

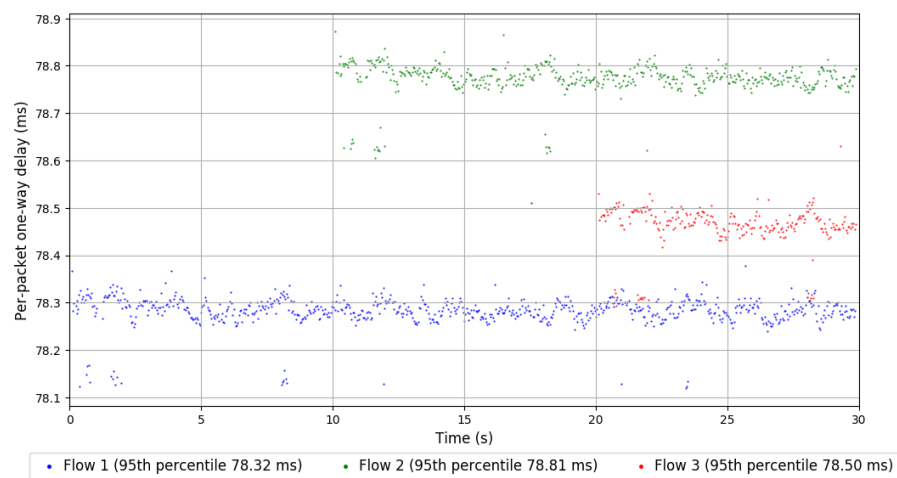
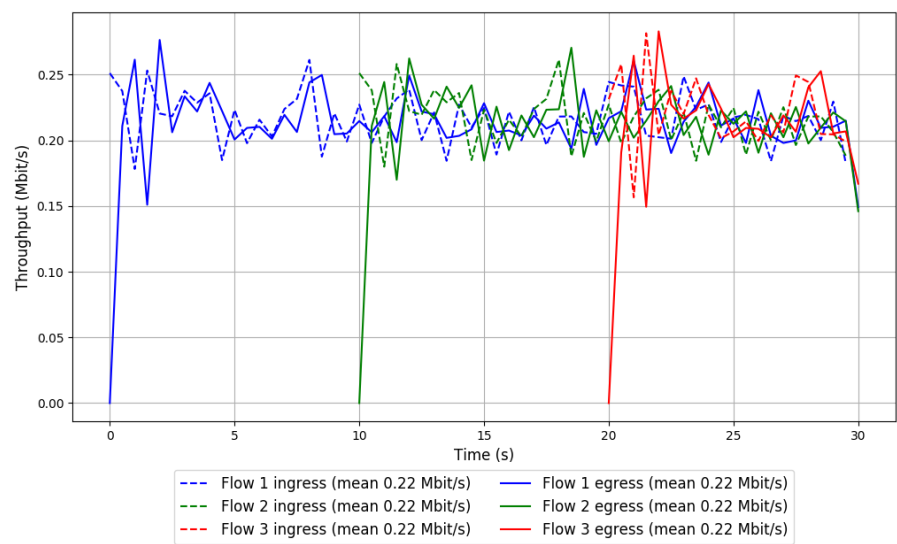
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.505 ms

Loss rate: 1.45%

Run 10: Report of SReAM — Data Link

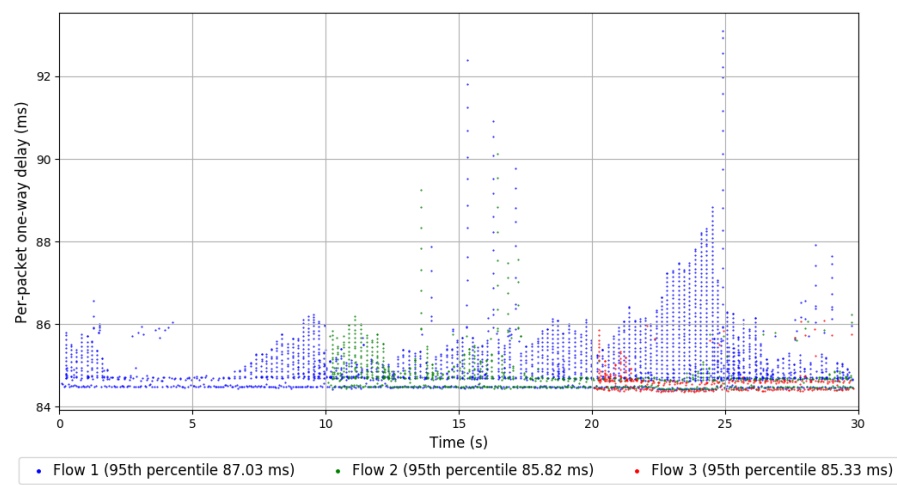
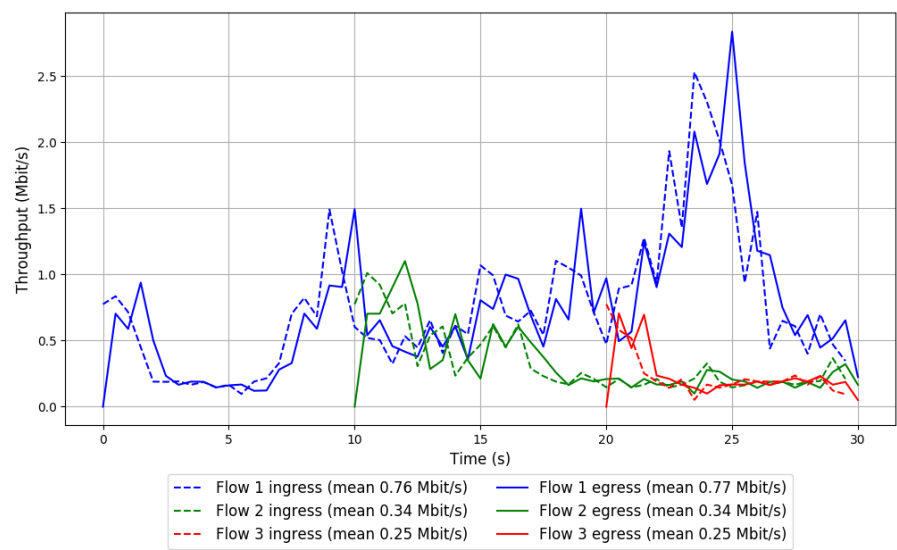


Run 1: Statistics of Sprout

Start at: 2018-05-22 15:39:08
End at: 2018-05-22 15:39:38
Local clock offset: -1.579 ms
Remote clock offset: -2.524 ms

Below is generated by plot.py at 2018-05-22 18:58:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 86.651 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 87.030 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 85.823 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 85.334 ms
Loss rate: 0.97%

Run 1: Report of Sprout — Data Link

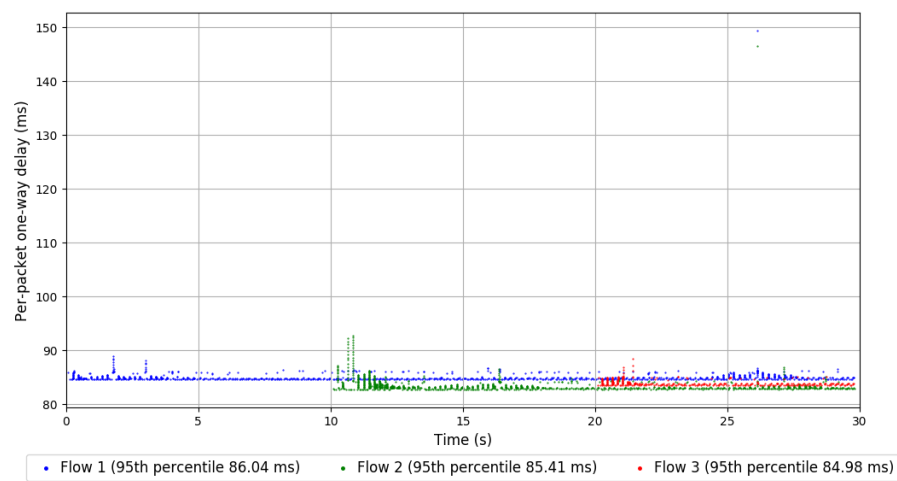
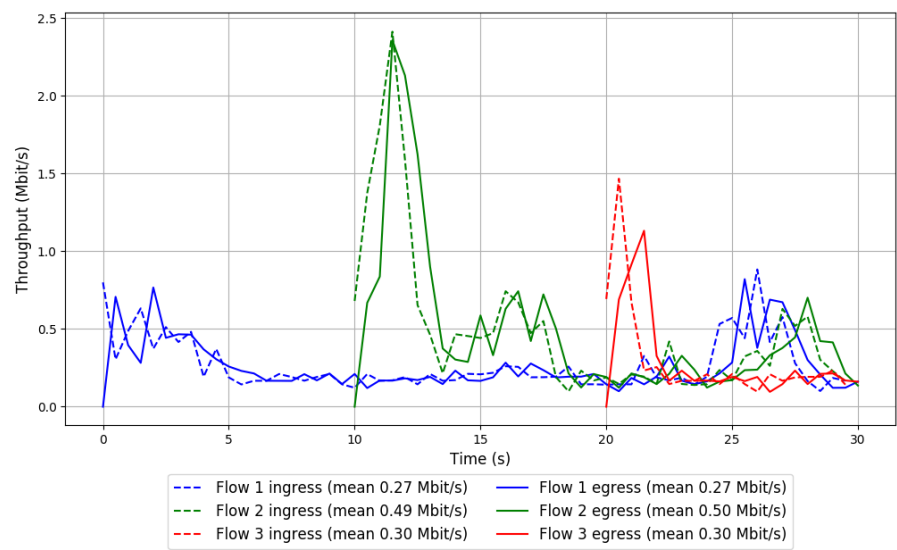


Run 2: Statistics of Sprout

Start at: 2018-05-22 15:58:44
End at: 2018-05-22 15:59:14
Local clock offset: -2.248 ms
Remote clock offset: 4.188 ms

```
# Below is generated by plot.py at 2018-05-22 18:58:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 85.953 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 86.041 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 85.411 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 84.981 ms
Loss rate: 0.81%
```

Run 2: Report of Sprout — Data Link

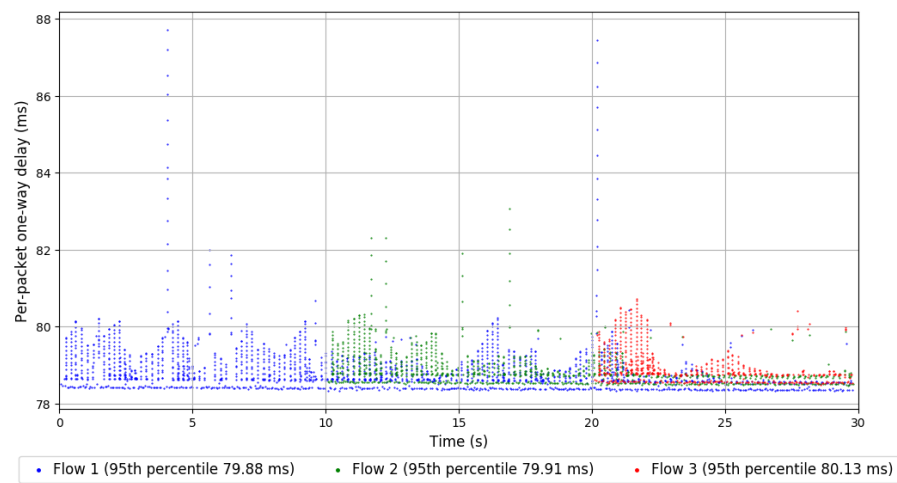
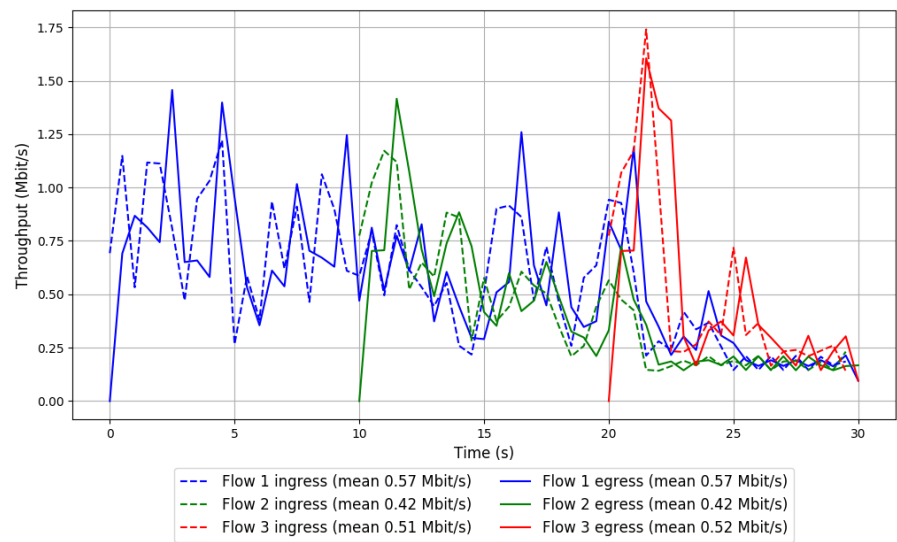


Run 3: Statistics of Sprout

Start at: 2018-05-22 16:18:19
End at: 2018-05-22 16:18:49
Local clock offset: -3.102 ms
Remote clock offset: 10.039 ms

```
# Below is generated by plot.py at 2018-05-22 18:58:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 79.943 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 79.879 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 79.909 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 80.127 ms
Loss rate: 0.70%
```

Run 3: Report of Sprout — Data Link

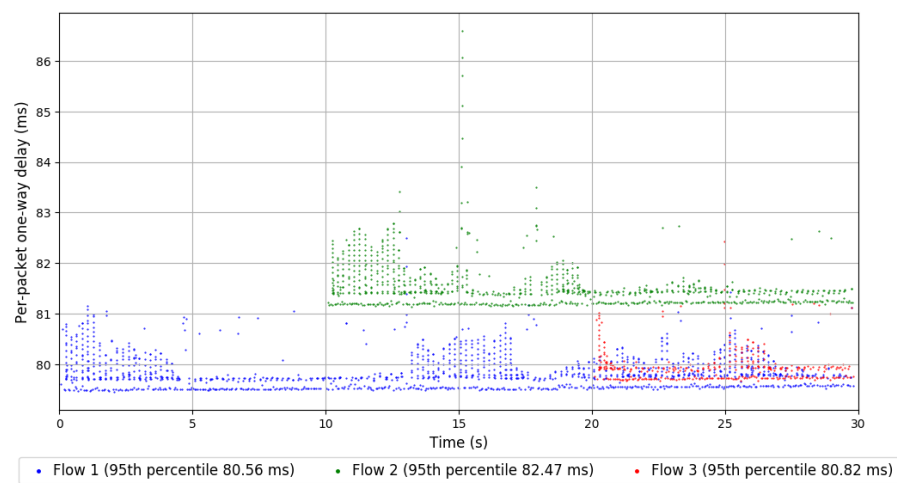
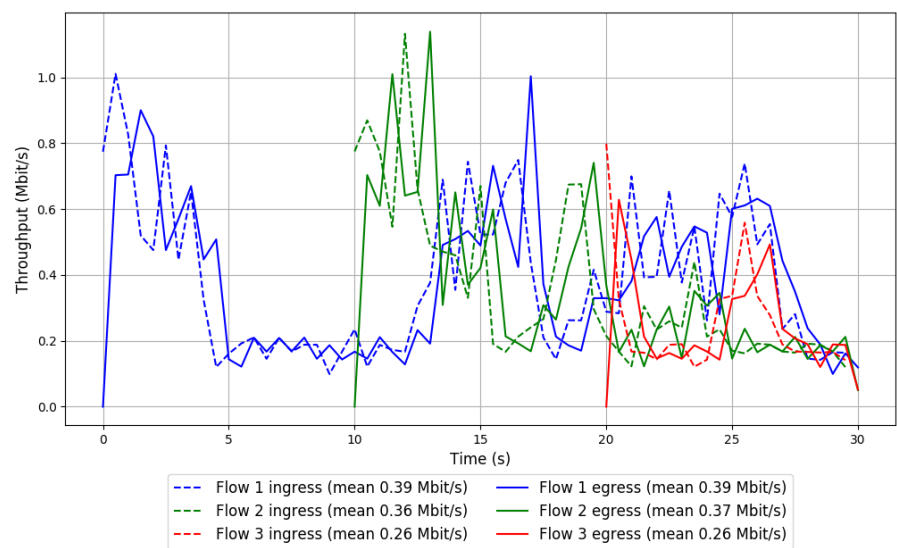


Run 4: Statistics of Sprout

Start at: 2018-05-22 16:37:55
End at: 2018-05-22 16:38:25
Local clock offset: -7.006 ms
Remote clock offset: 8.19 ms

```
# Below is generated by plot.py at 2018-05-22 18:58:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 81.912 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 80.558 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 82.469 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 80.823 ms
Loss rate: 1.82%
```

Run 4: Report of Sprout — Data Link

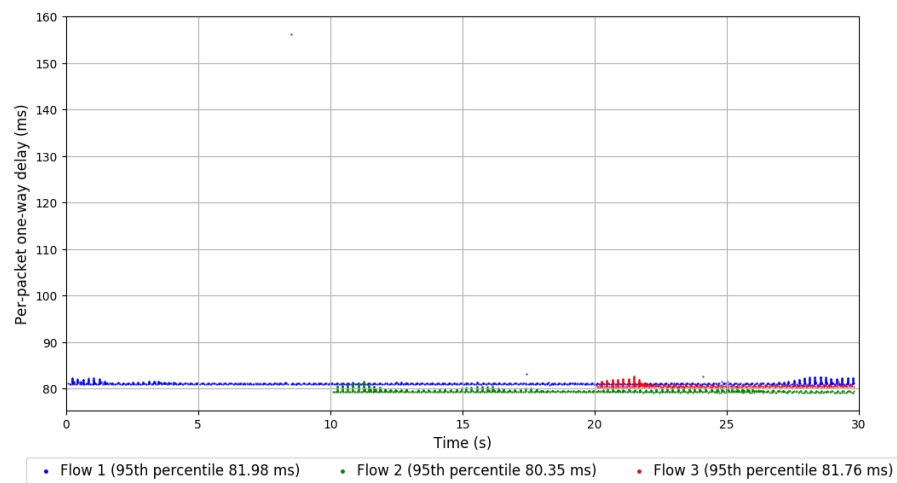
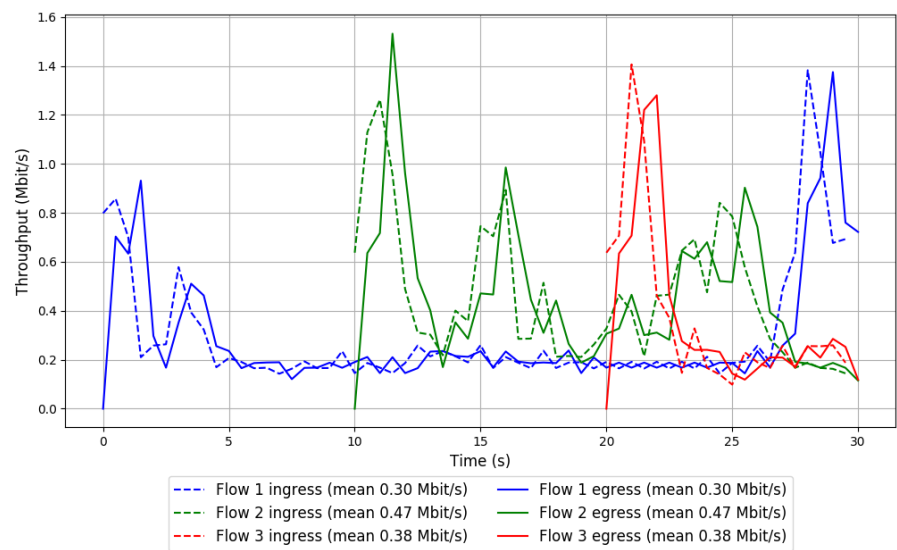


Run 5: Statistics of Sprout

Start at: 2018-05-22 16:57:37
End at: 2018-05-22 16:58:07
Local clock offset: -7.975 ms
Remote clock offset: 8.469 ms

```
# Below is generated by plot.py at 2018-05-22 18:58:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 81.704 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 81.980 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 80.347 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 81.763 ms
Loss rate: 1.25%
```


Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-22 17:17:16

End at: 2018-05-22 17:17:46

Local clock offset: -7.091 ms

Remote clock offset: 3.05 ms

Below is generated by plot.py at 2018-05-22 18:58:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 86.922 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 87.207 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 84.692 ms

Loss rate: 0.38%

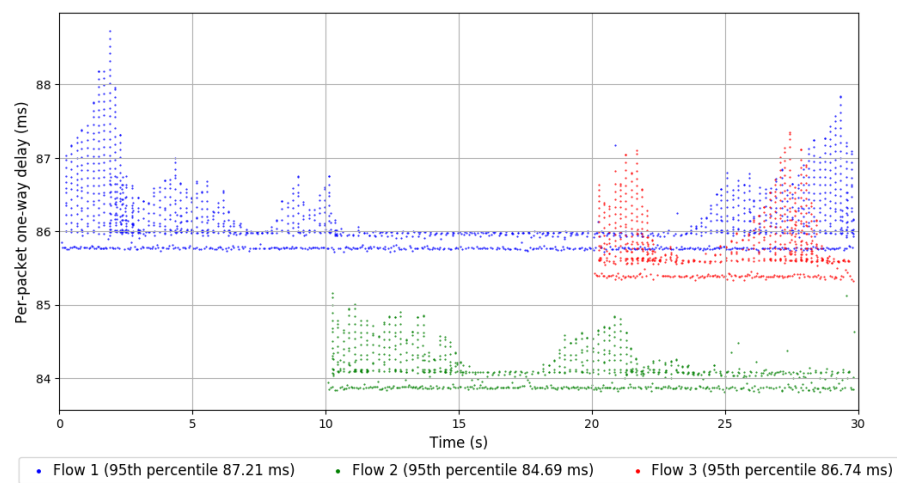
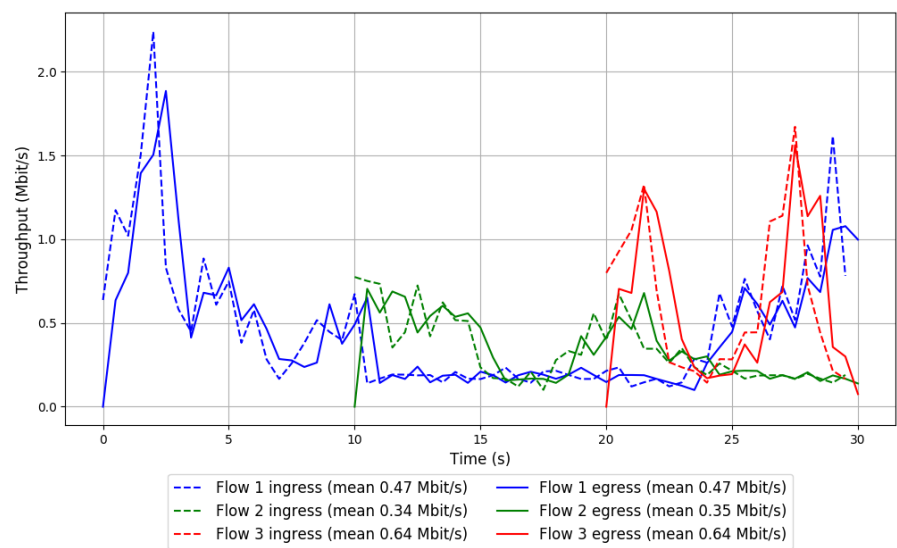
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 86.741 ms

Loss rate: 0.75%

Run 6: Report of Sprout — Data Link

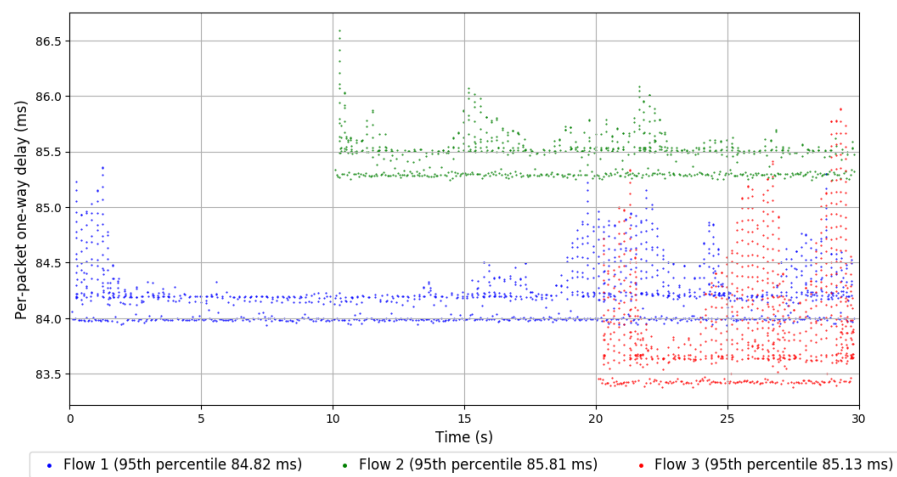
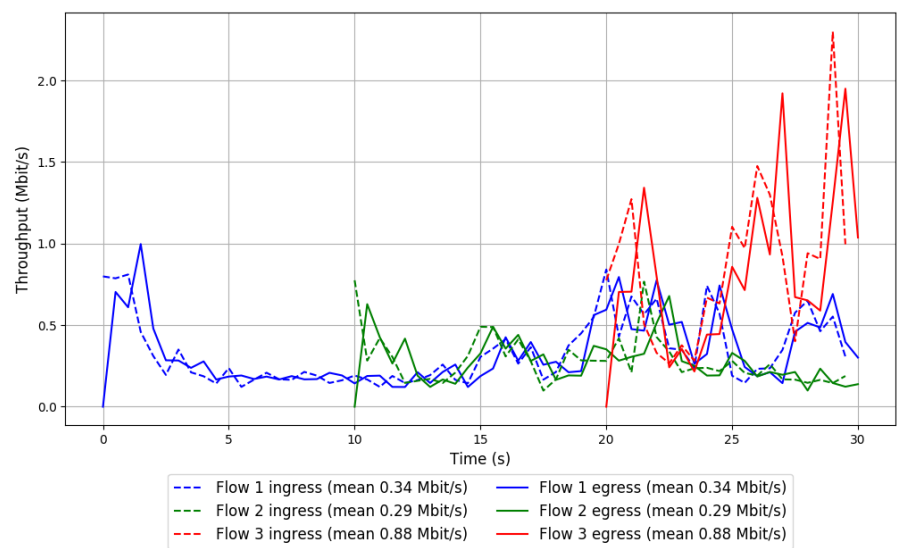


Run 7: Statistics of Sprout

Start at: 2018-05-22 17:36:56
End at: 2018-05-22 17:37:26
Local clock offset: -2.171 ms
Remote clock offset: 8.101 ms

```
# Below is generated by plot.py at 2018-05-22 18:58:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 85.606 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 84.822 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 85.807 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 85.129 ms
Loss rate: 1.79%
```

Run 7: Report of Sprout — Data Link

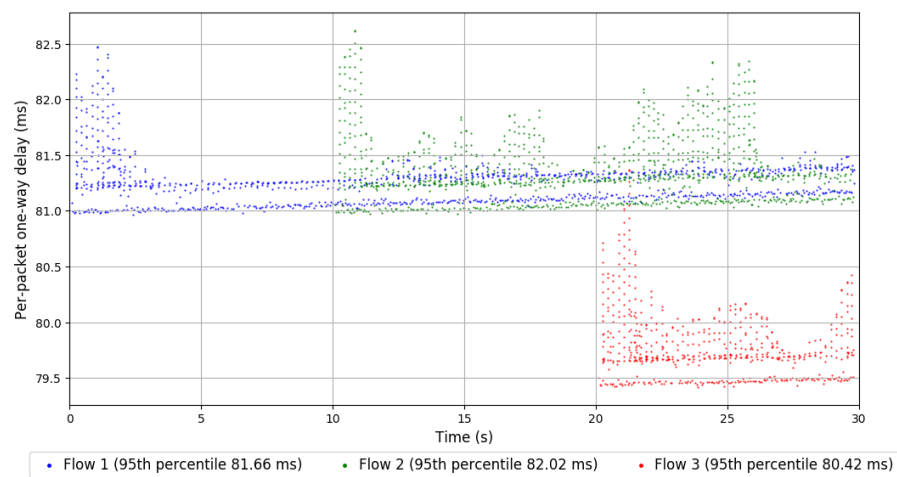
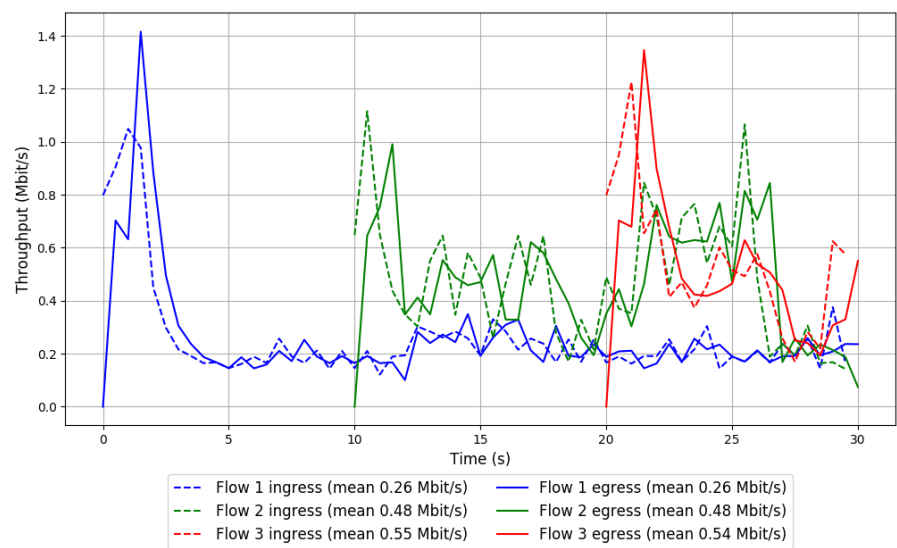


Run 8: Statistics of Sprout

Start at: 2018-05-22 17:56:37
End at: 2018-05-22 17:57:07
Local clock offset: 0.631 ms
Remote clock offset: 16.053 ms

Below is generated by plot.py at 2018-05-22 18:58:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 81.856 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 81.661 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 82.020 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 80.421 ms
Loss rate: 2.98%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-22 18:16:18

End at: 2018-05-22 18:16:48

Local clock offset: -1.268 ms

Remote clock offset: 2.972 ms

Below is generated by plot.py at 2018-05-22 18:58:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 86.144 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 85.382 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 84.498 ms

Loss rate: 0.59%

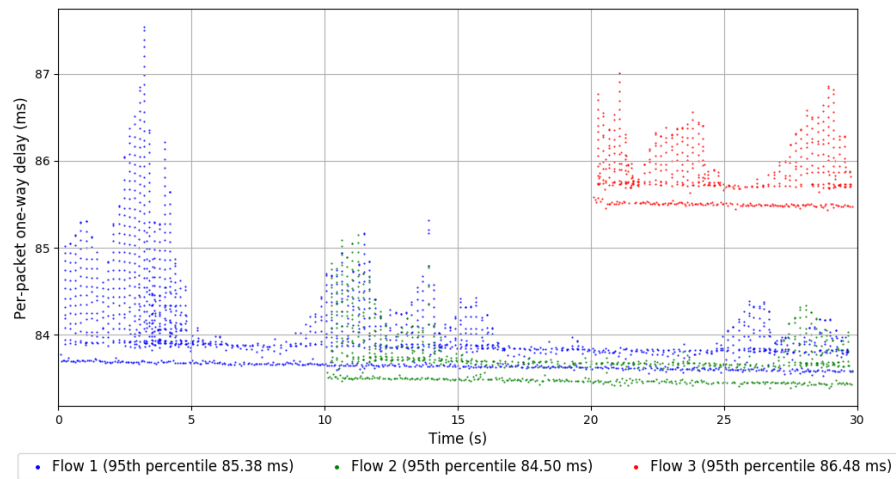
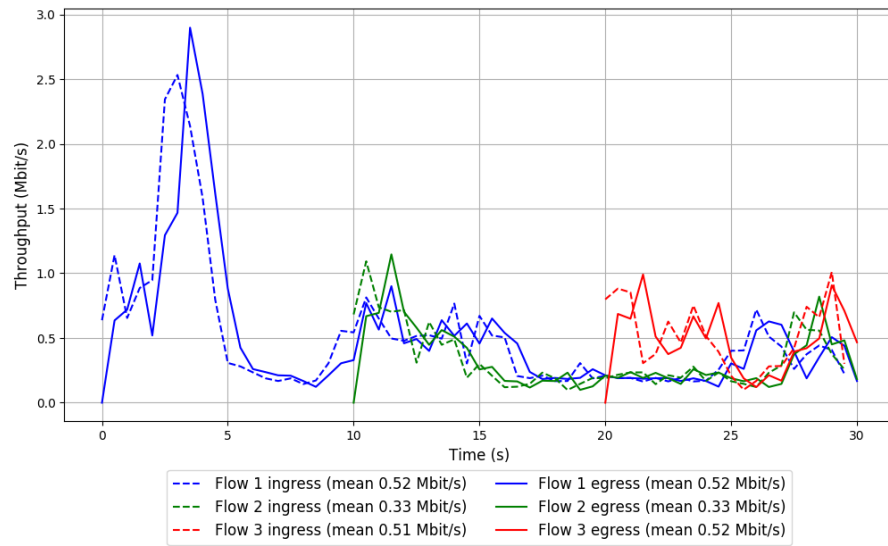
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 86.482 ms

Loss rate: 1.34%

Run 9: Report of Sprout — Data Link

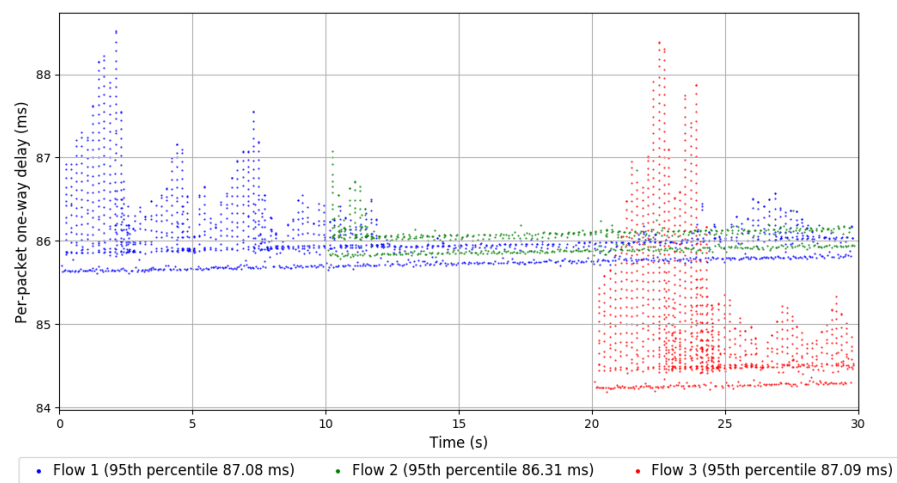
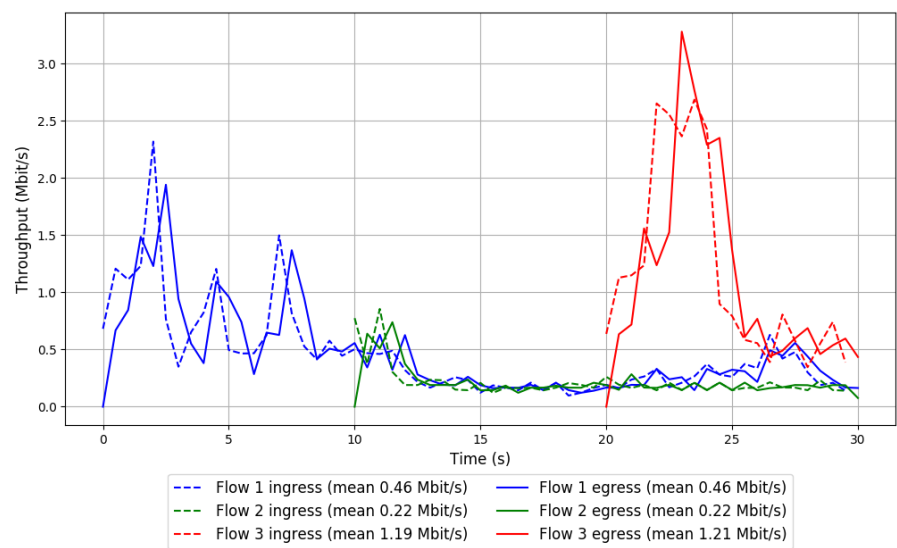


Run 10: Statistics of Sprout

Start at: 2018-05-22 18:35:57
End at: 2018-05-22 18:36:27
Local clock offset: -2.377 ms
Remote clock offset: 0.759 ms

```
# Below is generated by plot.py at 2018-05-22 18:58:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 86.971 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 87.077 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.313 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 87.093 ms
Loss rate: 0.49%
```

Run 10: Report of Sprout — Data Link

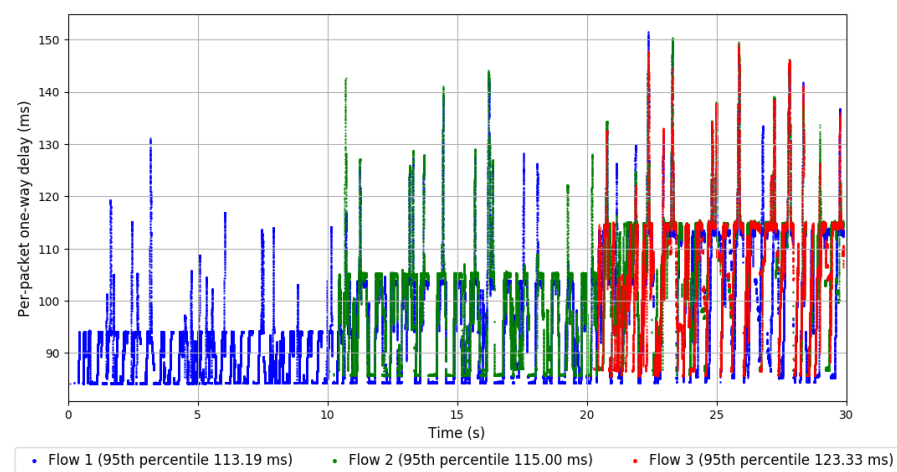
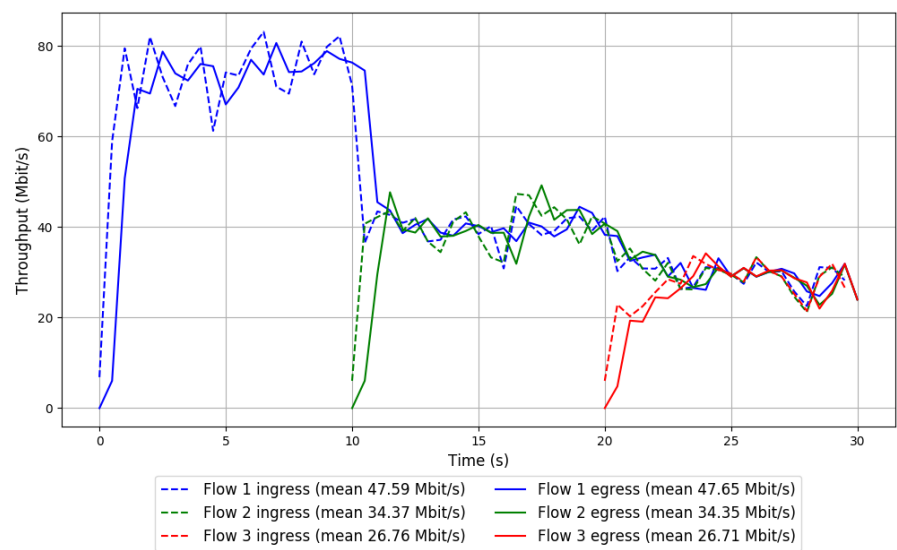


Run 1: Statistics of TaoVA-100x

Start at: 2018-05-22 15:47:51
End at: 2018-05-22 15:48:21
Local clock offset: -2.353 ms
Remote clock offset: -0.444 ms

Below is generated by plot.py at 2018-05-22 18:59:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.26 Mbit/s
95th percentile per-packet one-way delay: 114.699 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 47.65 Mbit/s
95th percentile per-packet one-way delay: 113.185 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 34.35 Mbit/s
95th percentile per-packet one-way delay: 114.995 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 26.71 Mbit/s
95th percentile per-packet one-way delay: 123.335 ms
Loss rate: 1.97%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-22 16:07:26

End at: 2018-05-22 16:07:56

Local clock offset: -1.626 ms

Remote clock offset: 5.419 ms

Below is generated by plot.py at 2018-05-22 18:59:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.06 Mbit/s

95th percentile per-packet one-way delay: 114.965 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 45.06 Mbit/s

95th percentile per-packet one-way delay: 114.543 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 32.95 Mbit/s

95th percentile per-packet one-way delay: 117.730 ms

Loss rate: 0.72%

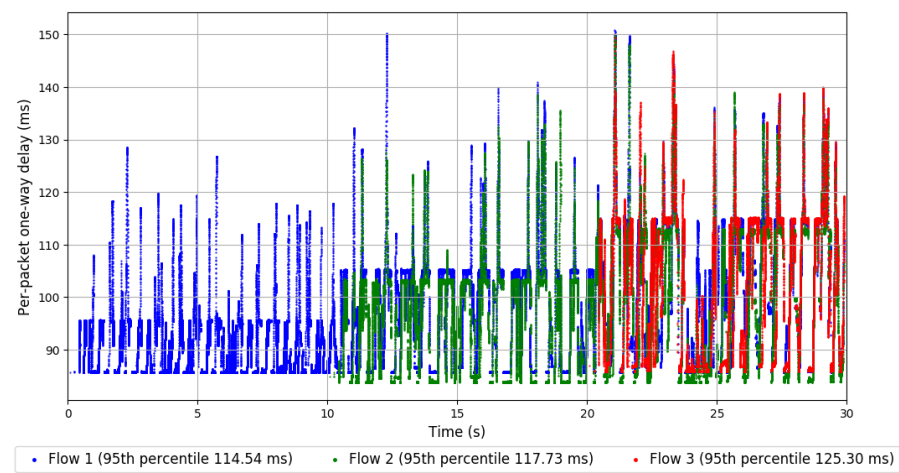
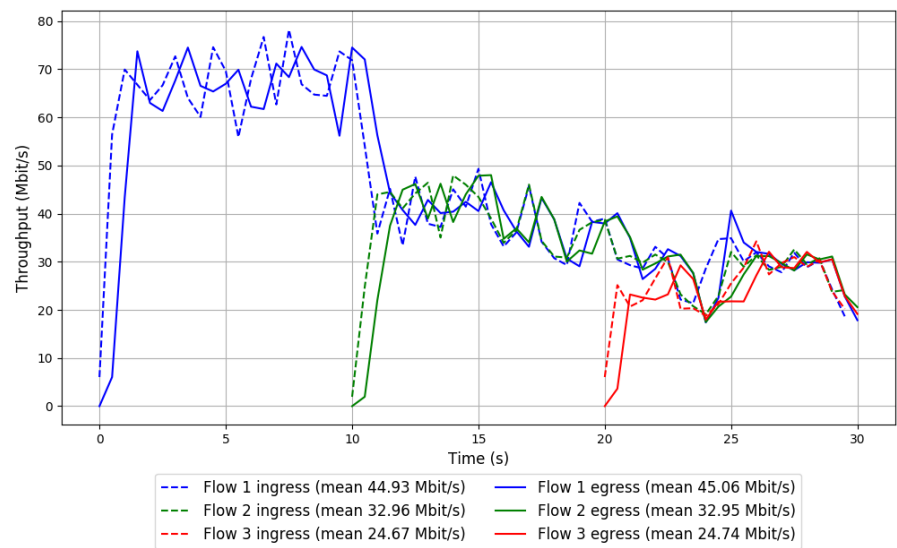
-- Flow 3:

Average throughput: 24.74 Mbit/s

95th percentile per-packet one-way delay: 125.298 ms

Loss rate: 1.44%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-22 16:27:01

End at: 2018-05-22 16:27:31

Local clock offset: -3.22 ms

Remote clock offset: 9.35 ms

Below is generated by plot.py at 2018-05-22 18:59:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.01 Mbit/s

95th percentile per-packet one-way delay: 109.115 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 47.33 Mbit/s

95th percentile per-packet one-way delay: 107.842 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 35.01 Mbit/s

95th percentile per-packet one-way delay: 107.835 ms

Loss rate: 0.85%

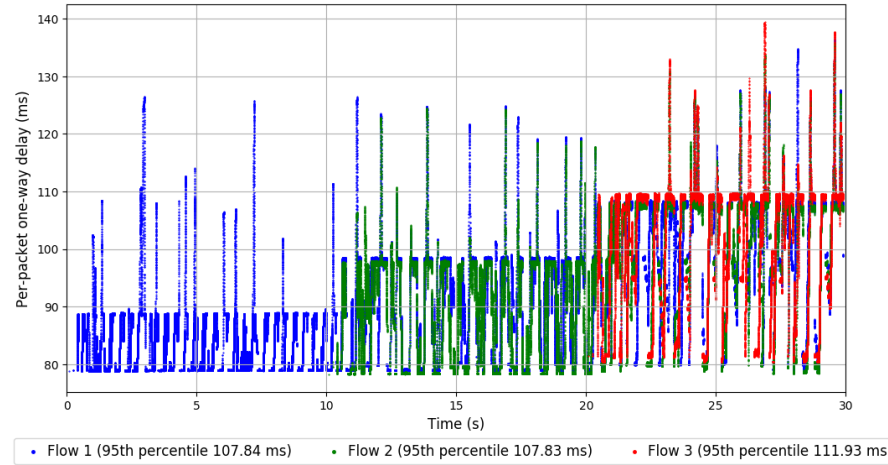
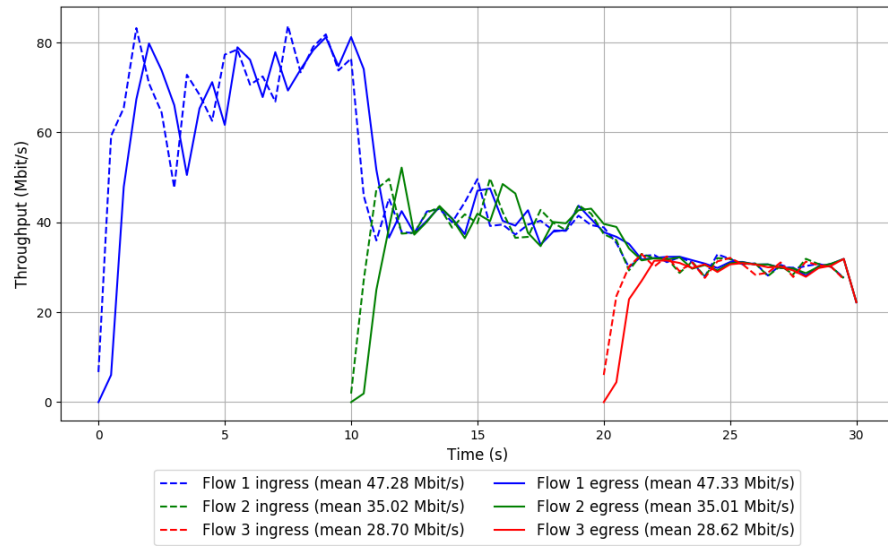
-- Flow 3:

Average throughput: 28.62 Mbit/s

95th percentile per-packet one-way delay: 111.931 ms

Loss rate: 1.93%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-22 16:46:40

End at: 2018-05-22 16:47:11

Local clock offset: -8.215 ms

Remote clock offset: 5.381 ms

Below is generated by plot.py at 2018-05-22 18:59:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 111.221 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 51.38 Mbit/s

95th percentile per-packet one-way delay: 110.780 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 37.33 Mbit/s

95th percentile per-packet one-way delay: 111.338 ms

Loss rate: 0.90%

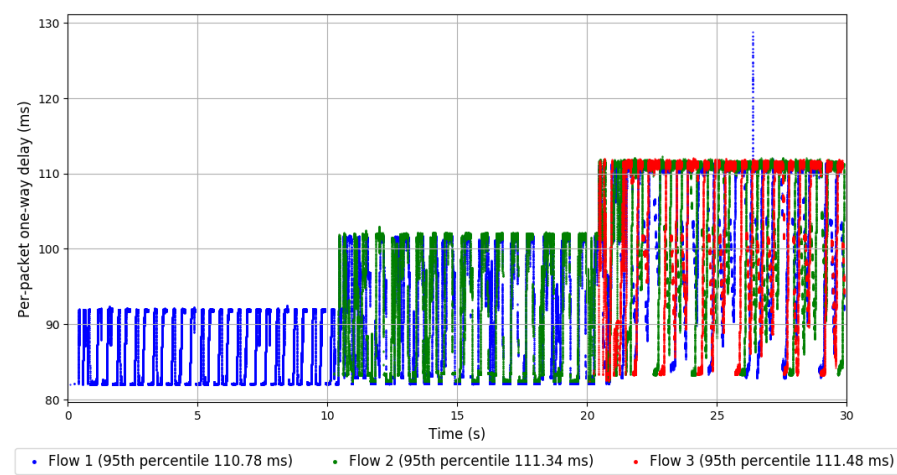
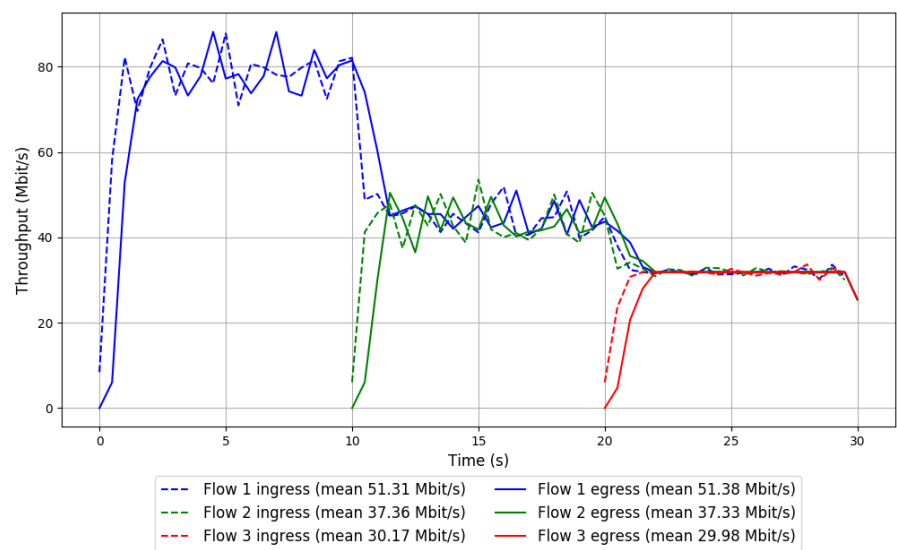
-- Flow 3:

Average throughput: 29.98 Mbit/s

95th percentile per-packet one-way delay: 111.485 ms

Loss rate: 2.26%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-22 17:06:21

End at: 2018-05-22 17:06:51

Local clock offset: -7.986 ms

Remote clock offset: 3.186 ms

Below is generated by plot.py at 2018-05-22 18:59:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.62 Mbit/s

95th percentile per-packet one-way delay: 113.824 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 50.79 Mbit/s

95th percentile per-packet one-way delay: 111.737 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 37.41 Mbit/s

95th percentile per-packet one-way delay: 113.995 ms

Loss rate: 0.84%

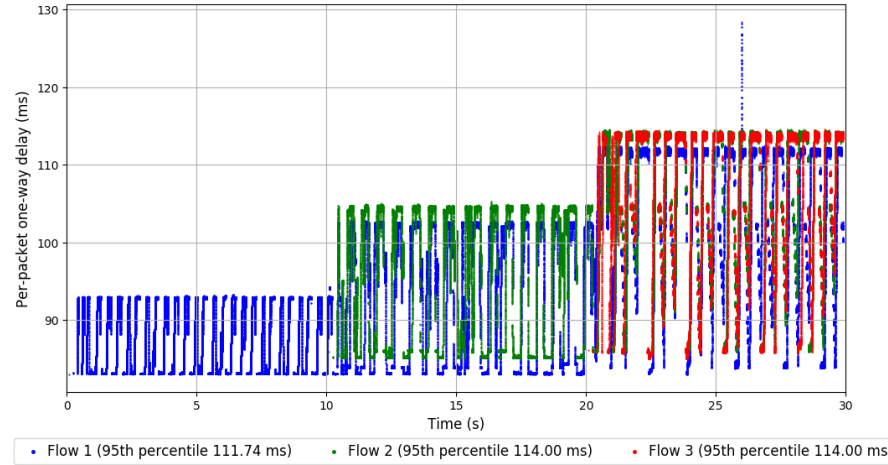
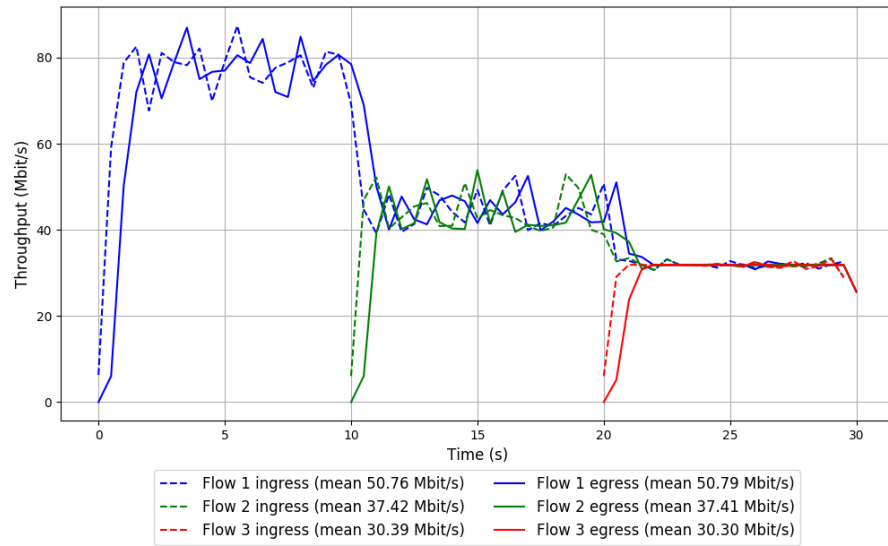
-- Flow 3:

Average throughput: 30.30 Mbit/s

95th percentile per-packet one-way delay: 114.004 ms

Loss rate: 1.94%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-22 17:26:01

End at: 2018-05-22 17:26:31

Local clock offset: -7.085 ms

Remote clock offset: 3.032 ms

Below is generated by plot.py at 2018-05-22 18:59:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.21 Mbit/s

95th percentile per-packet one-way delay: 114.299 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 50.42 Mbit/s

95th percentile per-packet one-way delay: 114.314 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 37.43 Mbit/s

95th percentile per-packet one-way delay: 114.357 ms

Loss rate: 0.93%

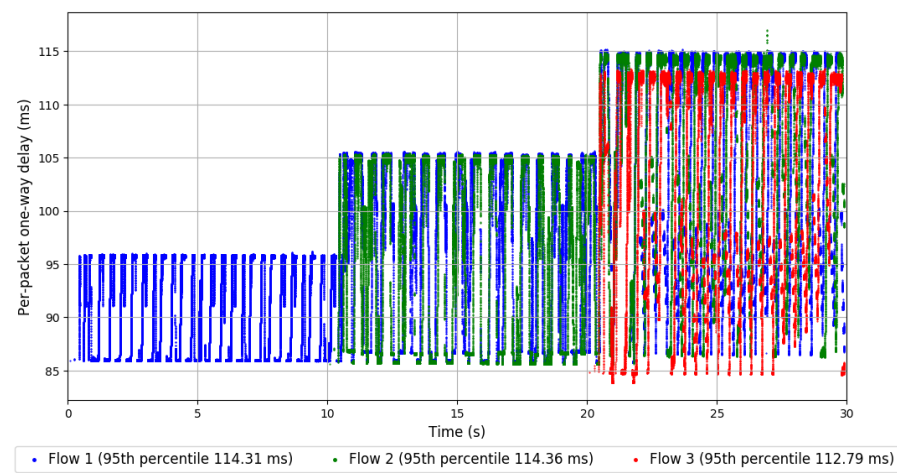
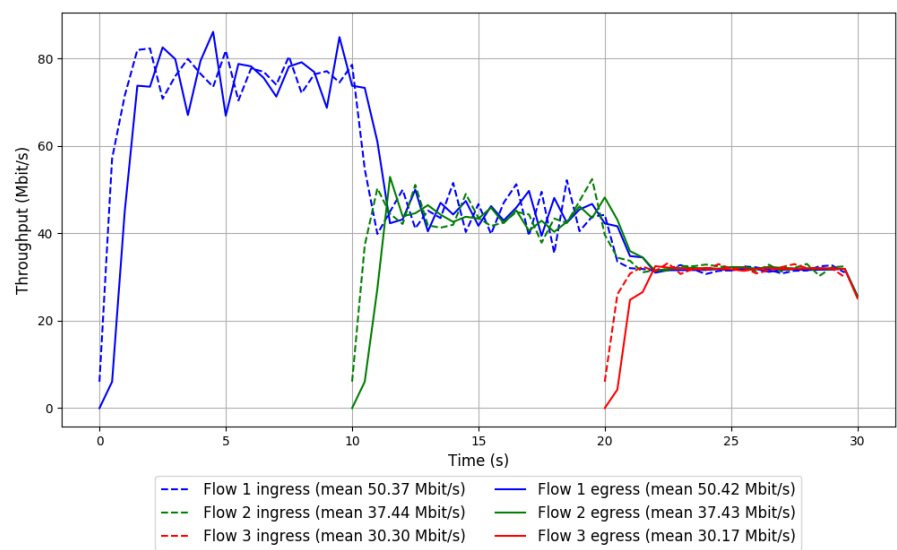
-- Flow 3:

Average throughput: 30.17 Mbit/s

95th percentile per-packet one-way delay: 112.794 ms

Loss rate: 2.10%

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

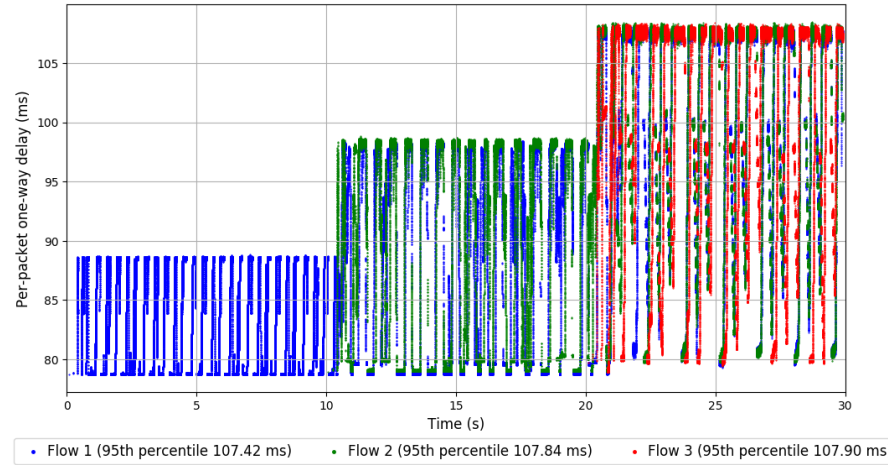
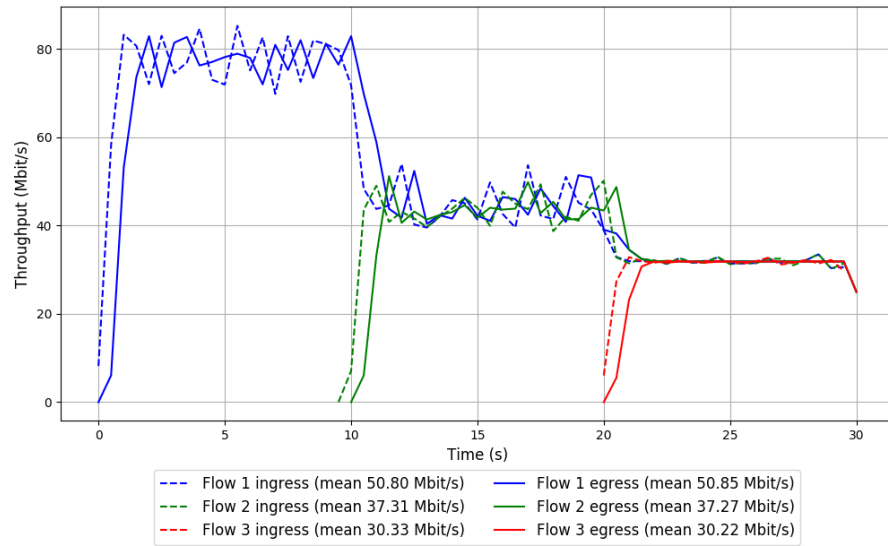


Run 7: Statistics of TaoVA-100x

Start at: 2018-05-22 17:45:42
End at: 2018-05-22 17:46:12
Local clock offset: -1.201 ms
Remote clock offset: 14.477 ms

Below is generated by plot.py at 2018-05-22 19:00:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.57 Mbit/s
95th percentile per-packet one-way delay: 107.712 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 50.85 Mbit/s
95th percentile per-packet one-way delay: 107.416 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 37.27 Mbit/s
95th percentile per-packet one-way delay: 107.837 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 30.22 Mbit/s
95th percentile per-packet one-way delay: 107.897 ms
Loss rate: 1.99%

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

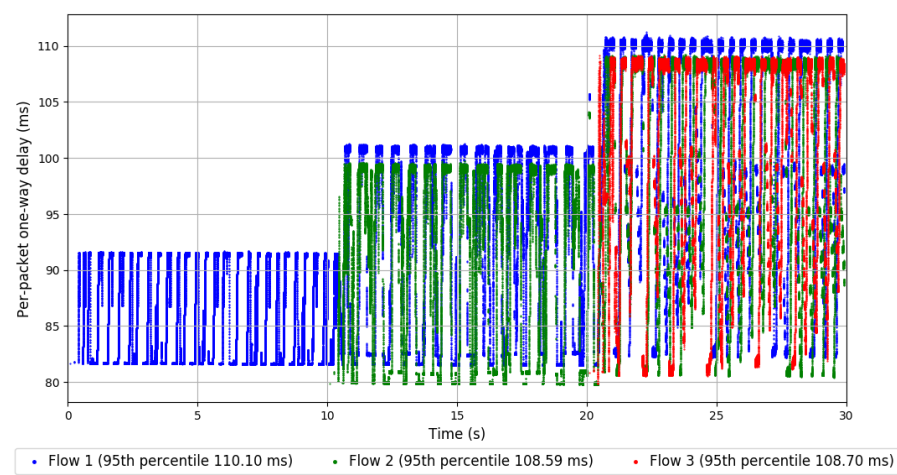
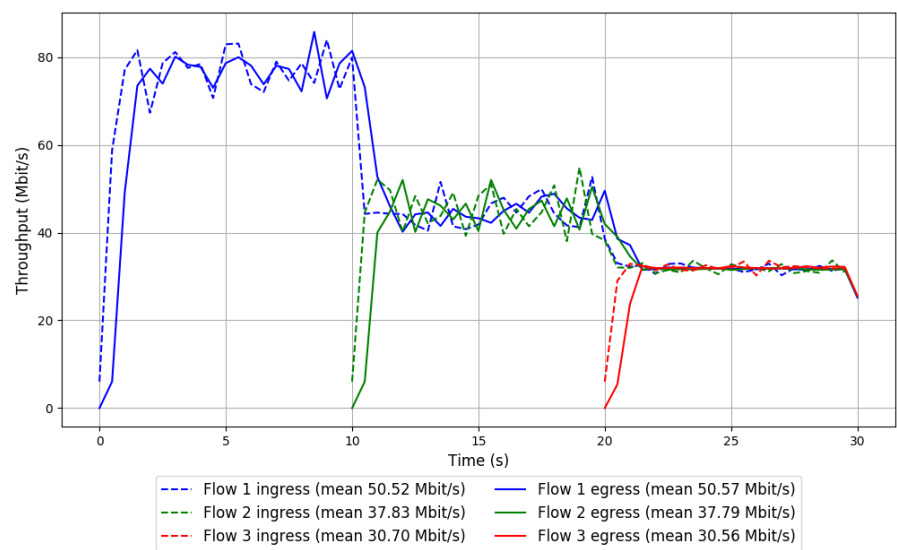


Run 8: Statistics of TaoVA-100x

Start at: 2018-05-22 18:05:22
End at: 2018-05-22 18:05:52
Local clock offset: -0.075 ms
Remote clock offset: 12.368 ms

Below is generated by plot.py at 2018-05-22 19:00:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.73 Mbit/s
95th percentile per-packet one-way delay: 109.612 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 50.57 Mbit/s
95th percentile per-packet one-way delay: 110.099 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 37.79 Mbit/s
95th percentile per-packet one-way delay: 108.588 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 108.700 ms
Loss rate: 2.21%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-22 18:25:02

End at: 2018-05-22 18:25:32

Local clock offset: -1.296 ms

Remote clock offset: 2.256 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.19 Mbit/s

95th percentile per-packet one-way delay: 111.907 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 51.17 Mbit/s

95th percentile per-packet one-way delay: 111.453 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 37.76 Mbit/s

95th percentile per-packet one-way delay: 111.824 ms

Loss rate: 0.82%

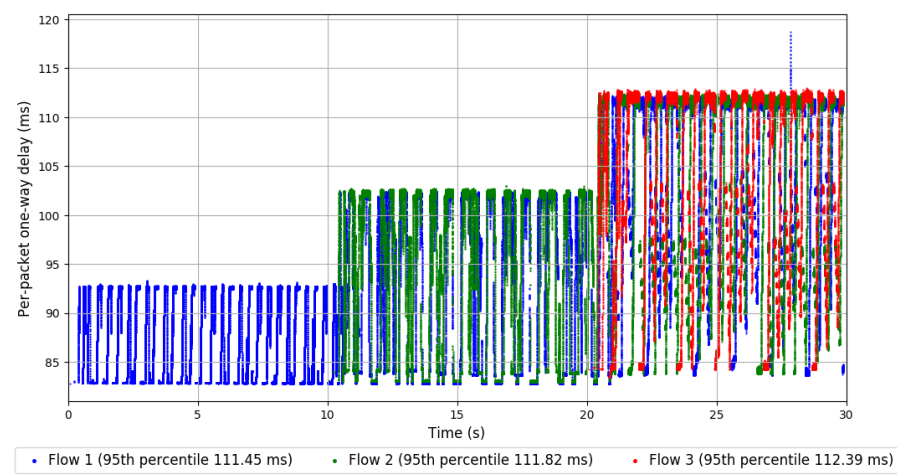
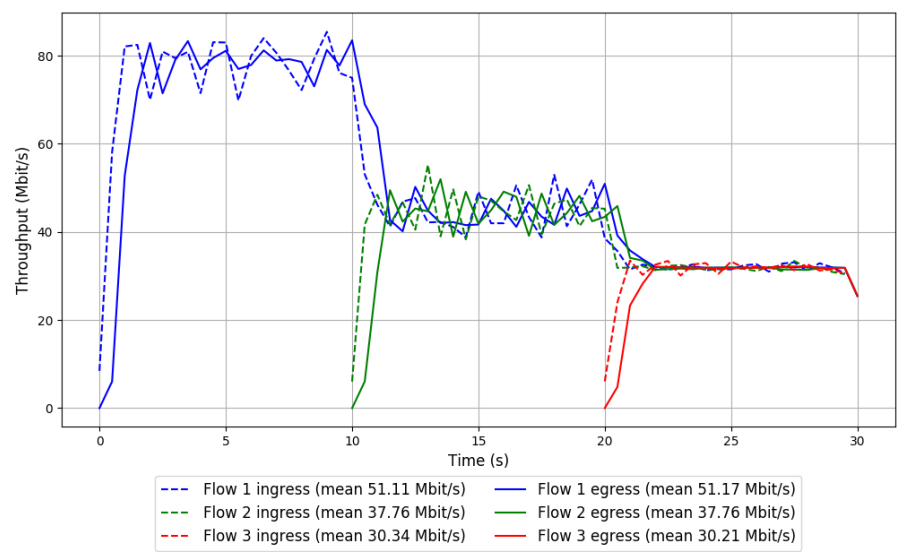
-- Flow 3:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 112.394 ms

Loss rate: 2.08%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-22 18:44:42

End at: 2018-05-22 18:45:12

Local clock offset: -3.448 ms

Remote clock offset: 3.561 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.52 Mbit/s

95th percentile per-packet one-way delay: 113.006 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 49.15 Mbit/s

95th percentile per-packet one-way delay: 112.731 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 35.60 Mbit/s

95th percentile per-packet one-way delay: 113.315 ms

Loss rate: 0.54%

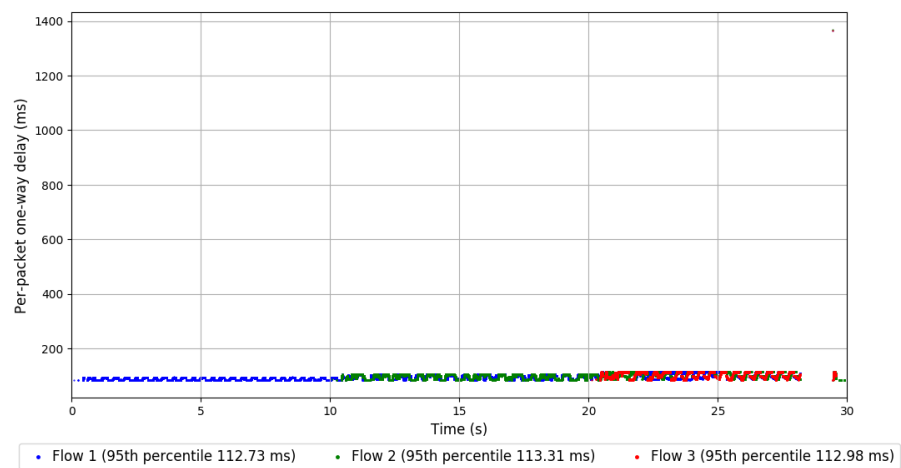
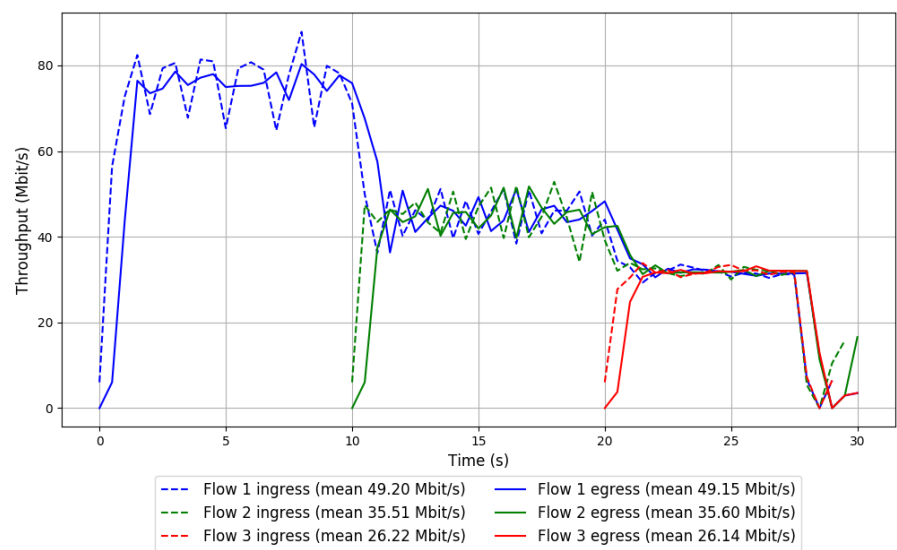
-- Flow 3:

Average throughput: 26.14 Mbit/s

95th percentile per-packet one-way delay: 112.984 ms

Loss rate: 0.12%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-22 15:37:54

End at: 2018-05-22 15:38:24

Local clock offset: -2.316 ms

Remote clock offset: 2.293 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.93 Mbit/s

95th percentile per-packet one-way delay: 90.582 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 88.590 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 37.46 Mbit/s

95th percentile per-packet one-way delay: 92.765 ms

Loss rate: 0.65%

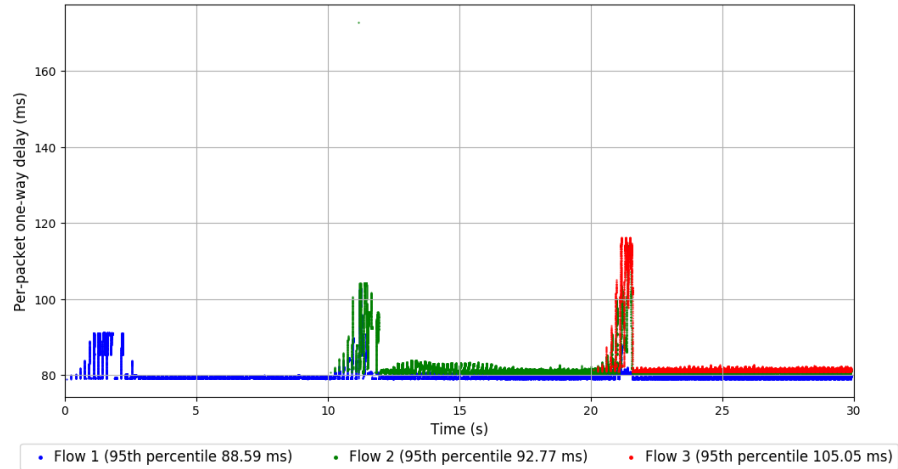
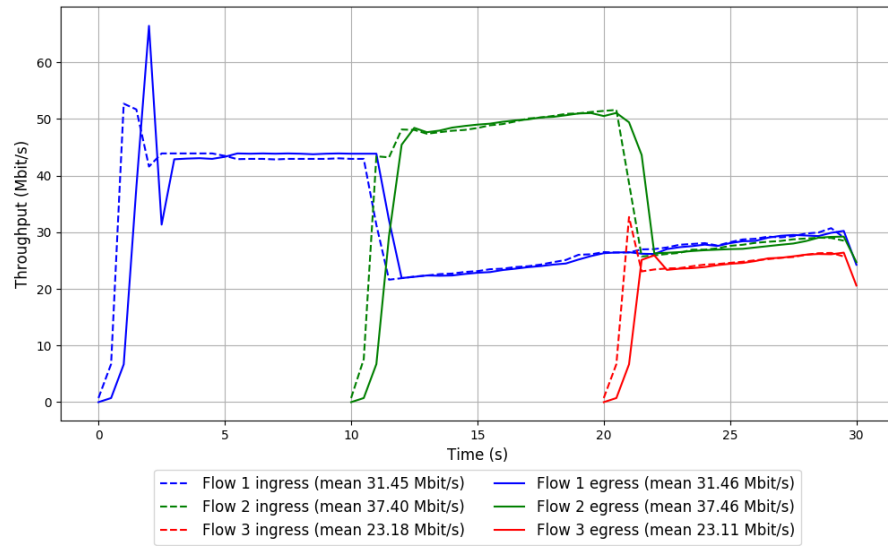
-- Flow 3:

Average throughput: 23.11 Mbit/s

95th percentile per-packet one-way delay: 105.051 ms

Loss rate: 1.92%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-22 15:57:31

End at: 2018-05-22 15:58:01

Local clock offset: -2.2 ms

Remote clock offset: 7.647 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.81 Mbit/s

95th percentile per-packet one-way delay: 99.287 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 27.42 Mbit/s

95th percentile per-packet one-way delay: 95.048 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 14.58 Mbit/s

95th percentile per-packet one-way delay: 101.344 ms

Loss rate: 1.10%

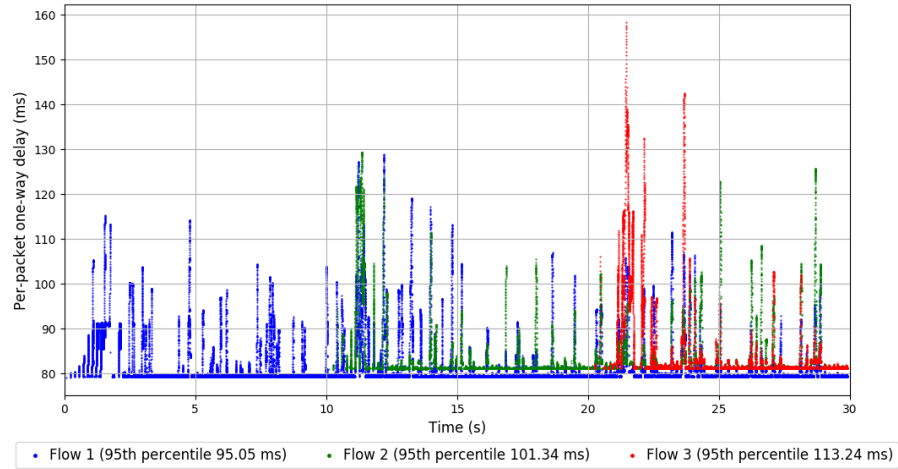
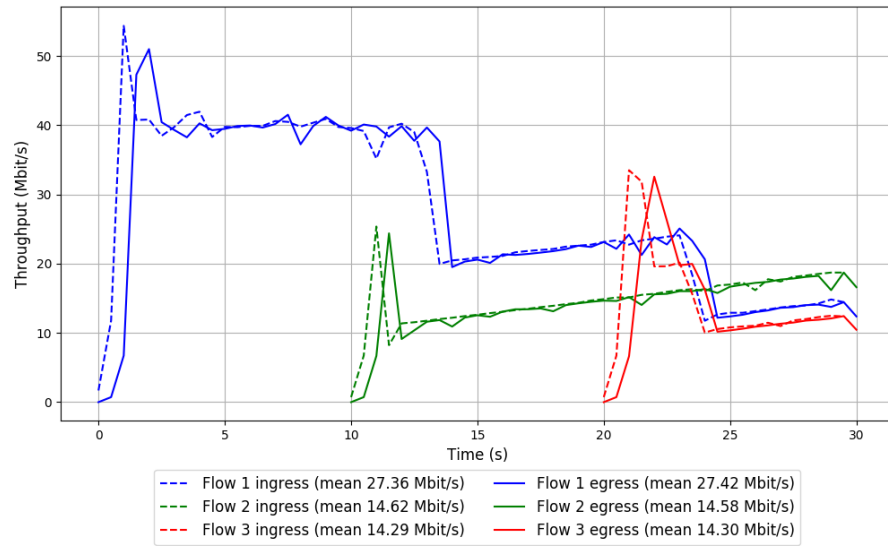
-- Flow 3:

Average throughput: 14.30 Mbit/s

95th percentile per-packet one-way delay: 113.240 ms

Loss rate: 1.56%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-22 16:17:06

End at: 2018-05-22 16:17:36

Local clock offset: -1.58 ms

Remote clock offset: 6.225 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.29 Mbit/s

95th percentile per-packet one-way delay: 100.118 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 28.85 Mbit/s

95th percentile per-packet one-way delay: 95.719 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 20.35 Mbit/s

95th percentile per-packet one-way delay: 106.105 ms

Loss rate: 0.59%

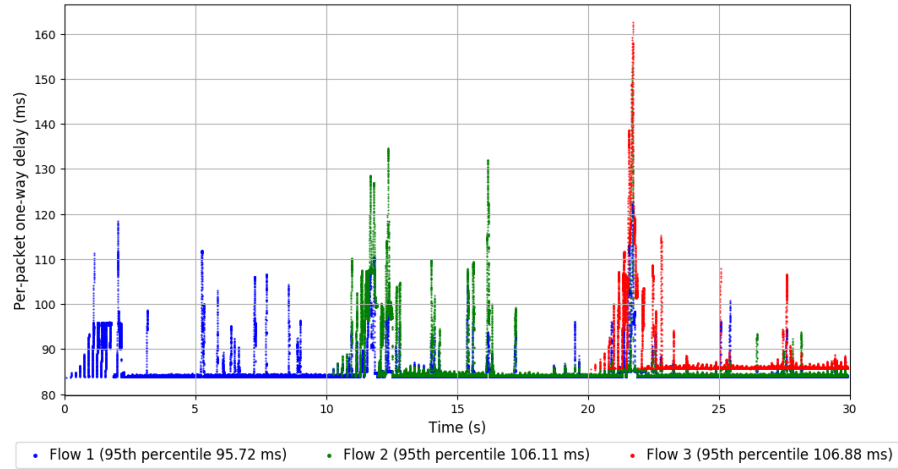
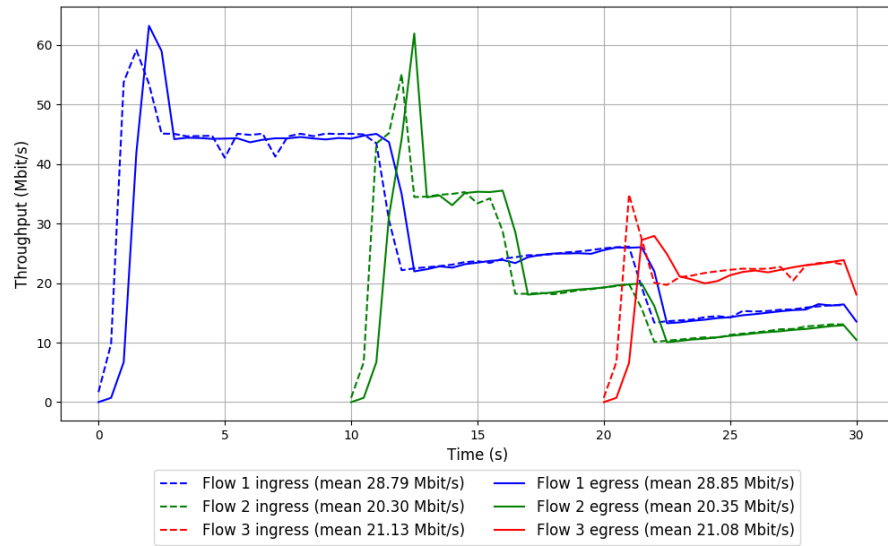
-- Flow 3:

Average throughput: 21.08 Mbit/s

95th percentile per-packet one-way delay: 106.881 ms

Loss rate: 1.88%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-22 16:36:42

End at: 2018-05-22 16:37:12

Local clock offset: -6.011 ms

Remote clock offset: 9.092 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.34 Mbit/s

95th percentile per-packet one-way delay: 97.252 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 92.882 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 19.86 Mbit/s

95th percentile per-packet one-way delay: 96.870 ms

Loss rate: 0.65%

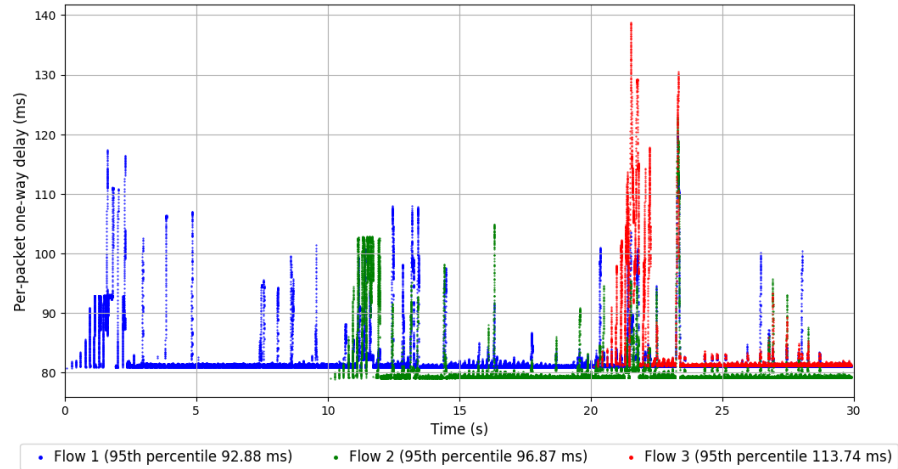
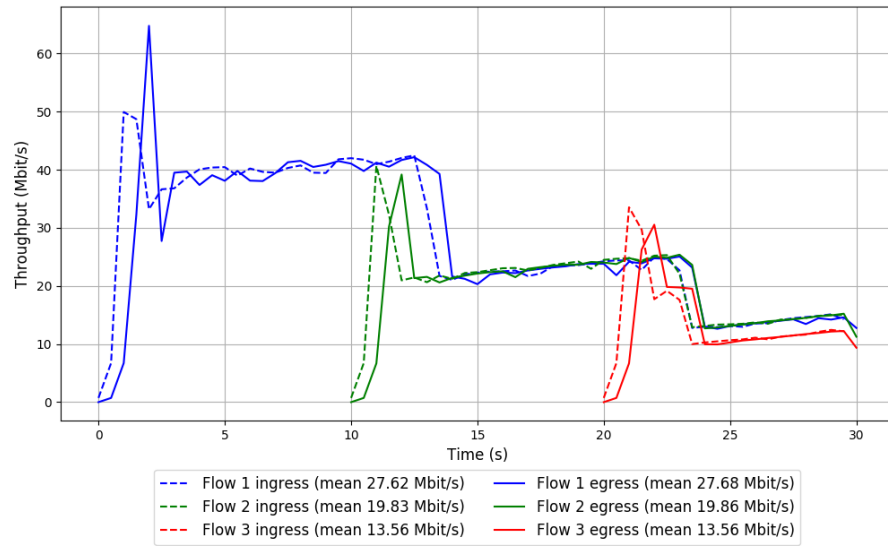
-- Flow 3:

Average throughput: 13.56 Mbit/s

95th percentile per-packet one-way delay: 113.740 ms

Loss rate: 1.61%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-22 16:56:23

End at: 2018-05-22 16:56:53

Local clock offset: -8.14 ms

Remote clock offset: 8.656 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.09 Mbit/s

95th percentile per-packet one-way delay: 91.179 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 34.94 Mbit/s

95th percentile per-packet one-way delay: 90.947 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 25.23 Mbit/s

95th percentile per-packet one-way delay: 90.132 ms

Loss rate: 0.97%

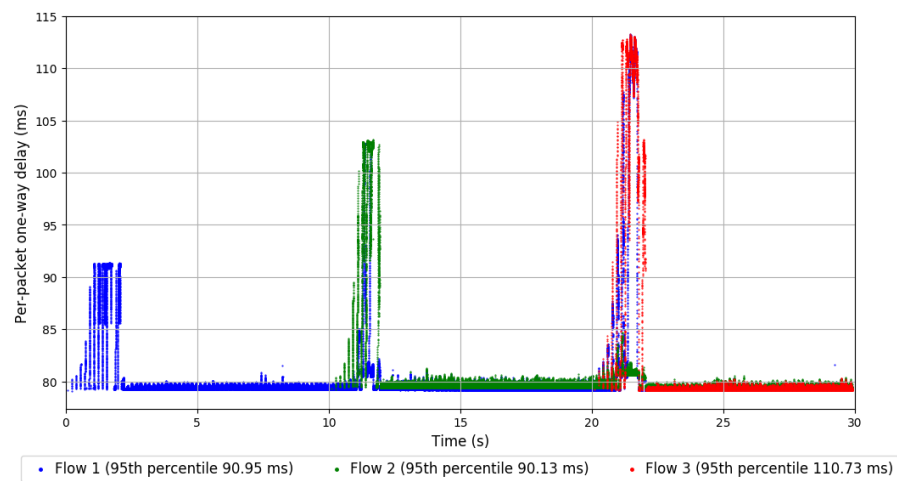
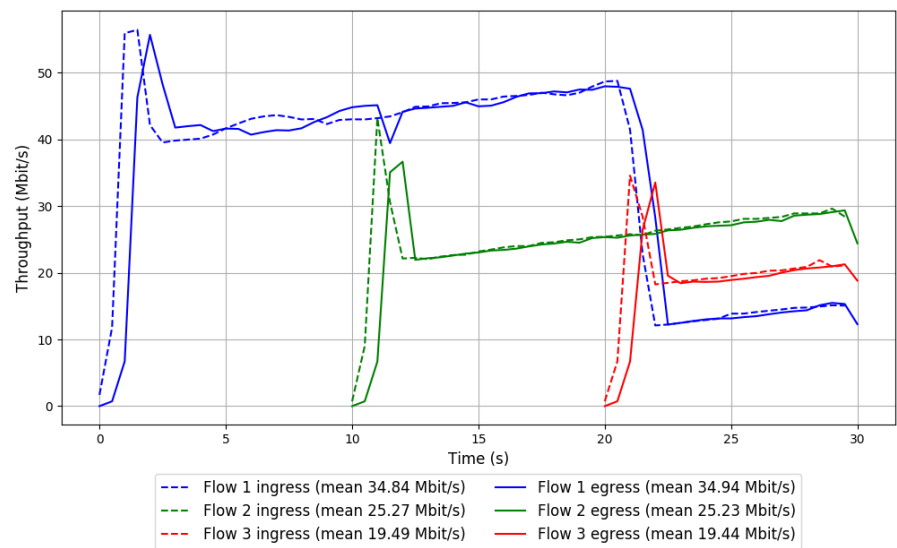
-- Flow 3:

Average throughput: 19.44 Mbit/s

95th percentile per-packet one-way delay: 110.726 ms

Loss rate: 1.87%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-22 17:16:03

End at: 2018-05-22 17:16:33

Local clock offset: -6.235 ms

Remote clock offset: 3.105 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.54 Mbit/s

95th percentile per-packet one-way delay: 98.295 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 35.80 Mbit/s

95th percentile per-packet one-way delay: 95.229 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 22.99 Mbit/s

95th percentile per-packet one-way delay: 104.786 ms

Loss rate: 0.94%

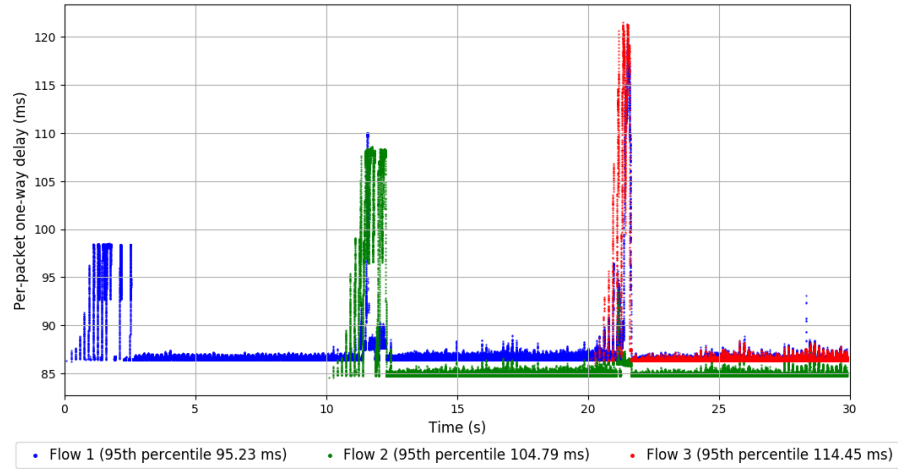
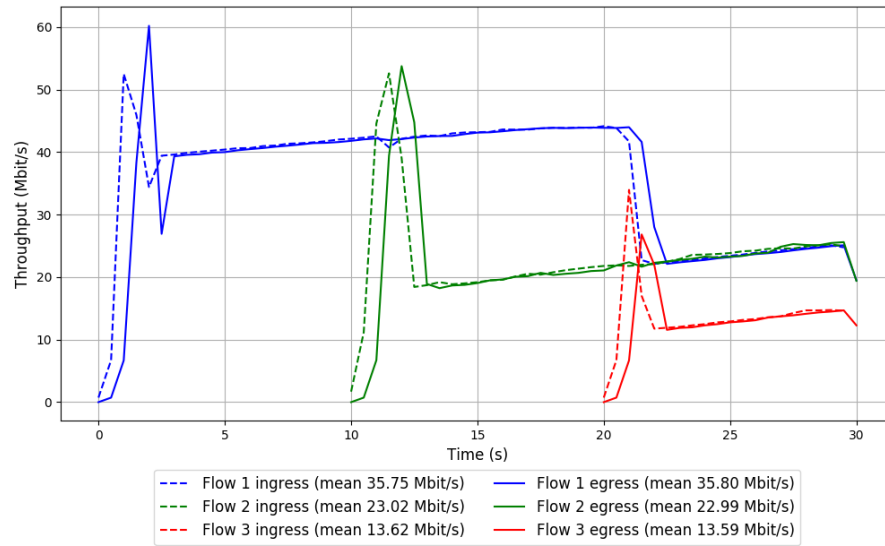
-- Flow 3:

Average throughput: 13.59 Mbit/s

95th percentile per-packet one-way delay: 114.446 ms

Loss rate: 1.86%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-22 17:35:43

End at: 2018-05-22 17:36:13

Local clock offset: -2.494 ms

Remote clock offset: 7.555 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.42 Mbit/s

95th percentile per-packet one-way delay: 95.612 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 30.91 Mbit/s

95th percentile per-packet one-way delay: 93.452 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 97.567 ms

Loss rate: 0.98%

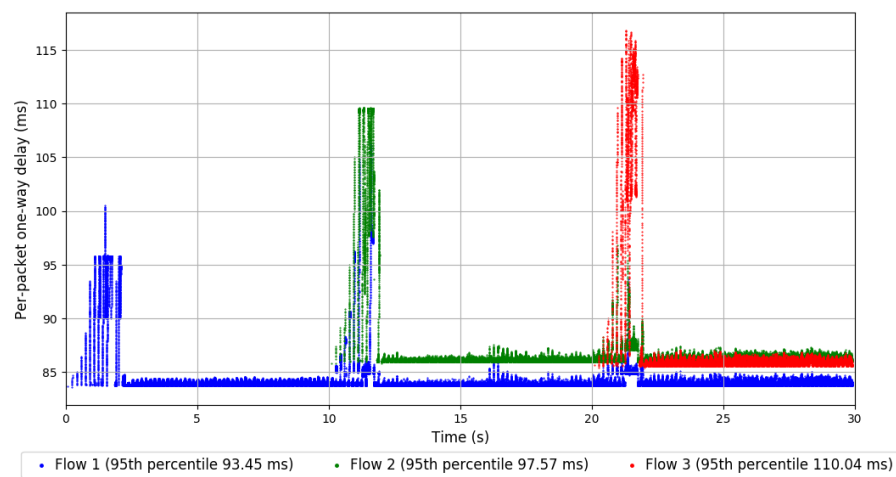
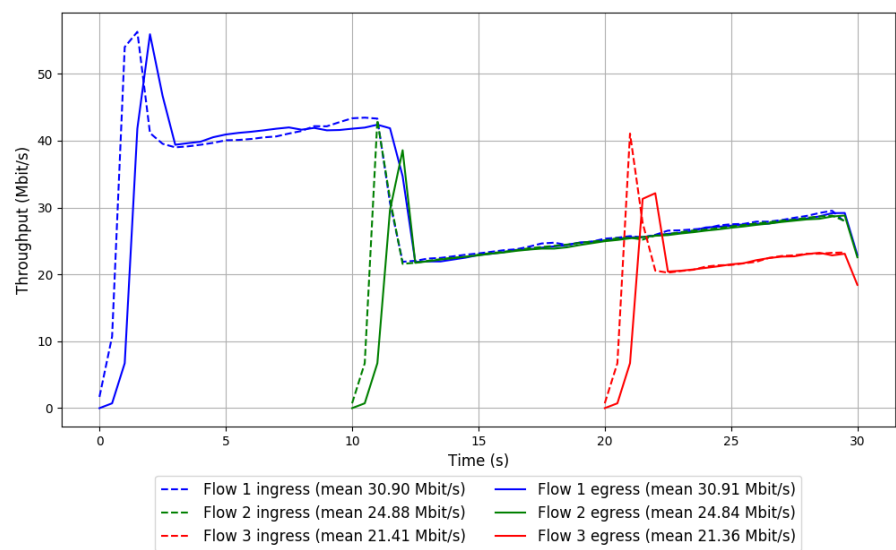
-- Flow 3:

Average throughput: 21.36 Mbit/s

95th percentile per-packet one-way delay: 110.043 ms

Loss rate: 1.86%

Run 7: Report of TCP Vegas — Data Link

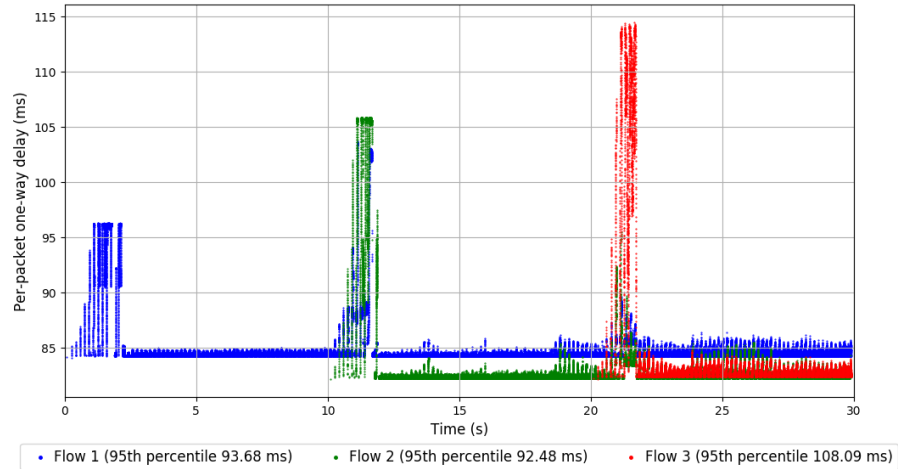
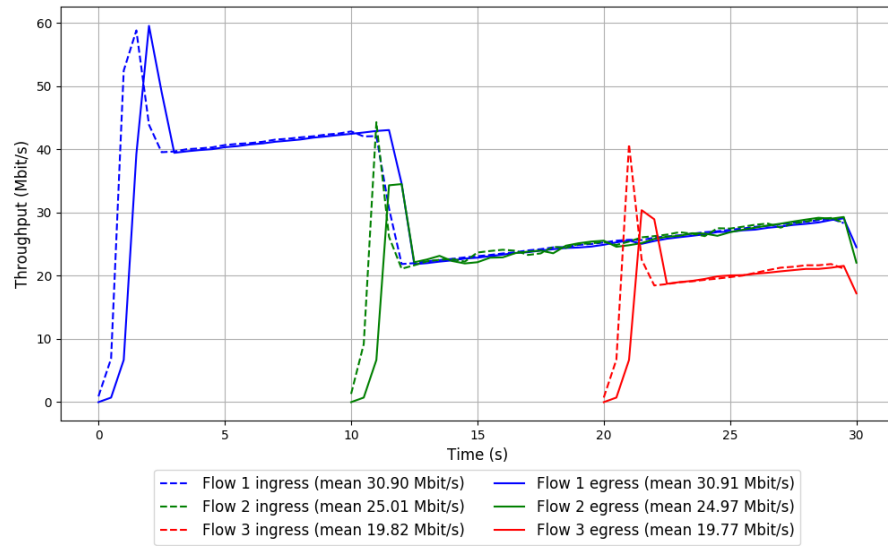


Run 8: Statistics of TCP Vegas

Start at: 2018-05-22 17:55:24
End at: 2018-05-22 17:55:54
Local clock offset: -0.235 ms
Remote clock offset: 12.058 ms

Below is generated by plot.py at 2018-05-22 19:01:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.00 Mbit/s
95th percentile per-packet one-way delay: 95.046 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 30.91 Mbit/s
95th percentile per-packet one-way delay: 93.682 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 24.97 Mbit/s
95th percentile per-packet one-way delay: 92.476 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 19.77 Mbit/s
95th percentile per-packet one-way delay: 108.093 ms
Loss rate: 1.85%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-22 18:15:04

End at: 2018-05-22 18:15:34

Local clock offset: -1.267 ms

Remote clock offset: 7.787 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.78 Mbit/s

95th percentile per-packet one-way delay: 92.495 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 28.71 Mbit/s

95th percentile per-packet one-way delay: 91.546 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 29.50 Mbit/s

95th percentile per-packet one-way delay: 91.644 ms

Loss rate: 0.69%

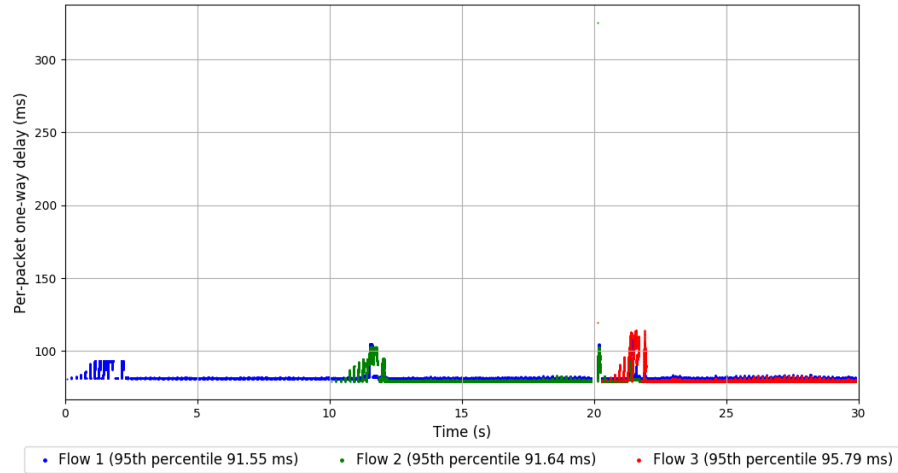
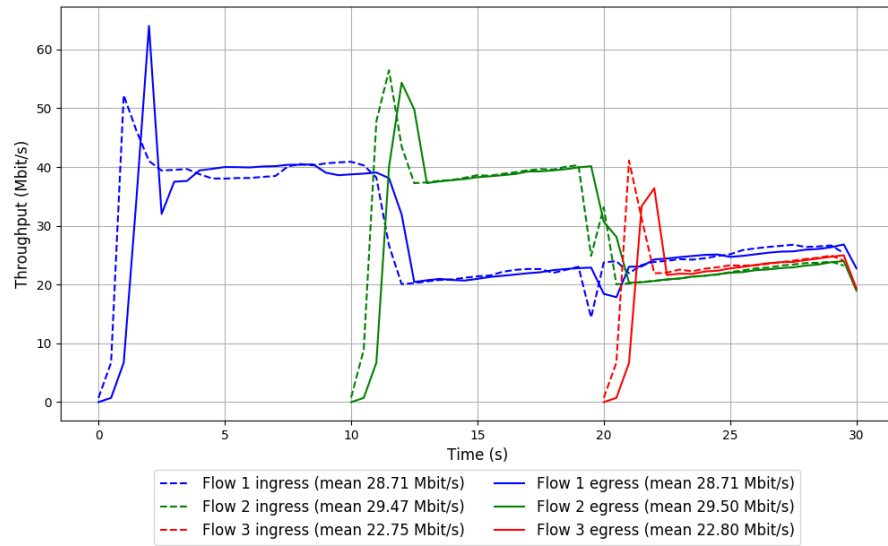
-- Flow 3:

Average throughput: 22.80 Mbit/s

95th percentile per-packet one-way delay: 95.794 ms

Loss rate: 1.82%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-22 18:34:44

End at: 2018-05-22 18:35:14

Local clock offset: -2.246 ms

Remote clock offset: 5.24 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.78 Mbit/s

95th percentile per-packet one-way delay: 92.634 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 33.61 Mbit/s

95th percentile per-packet one-way delay: 92.419 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 24.19 Mbit/s

95th percentile per-packet one-way delay: 91.529 ms

Loss rate: 0.97%

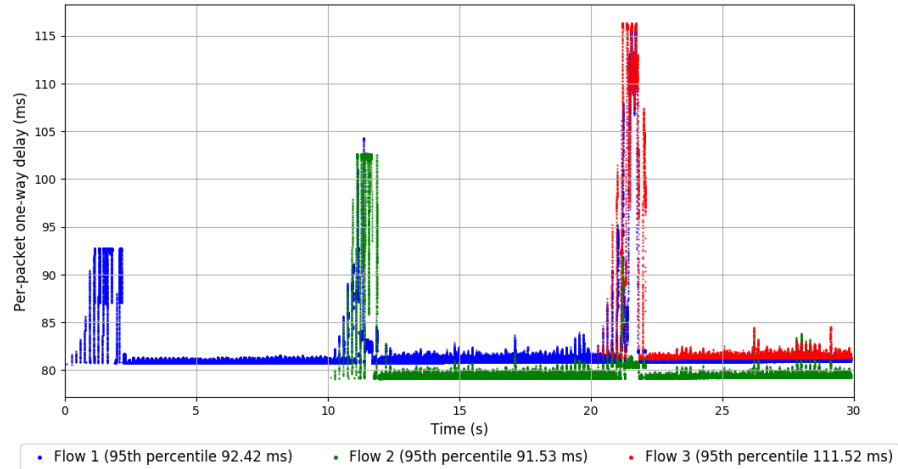
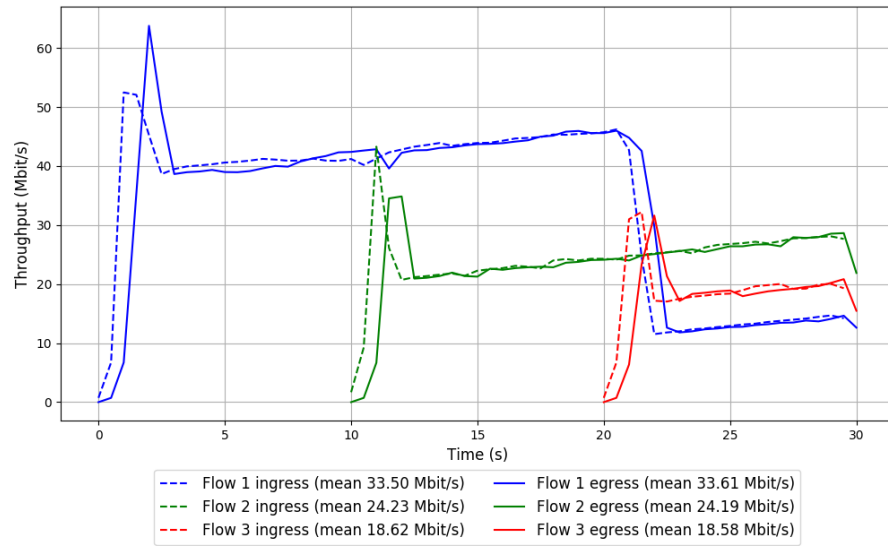
-- Flow 3:

Average throughput: 18.58 Mbit/s

95th percentile per-packet one-way delay: 111.519 ms

Loss rate: 1.88%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-22 15:30:45

End at: 2018-05-22 15:31:15

Local clock offset: -2.056 ms

Remote clock offset: 1.883 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 81.861 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 80.607 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 79.965 ms

Loss rate: 0.00%

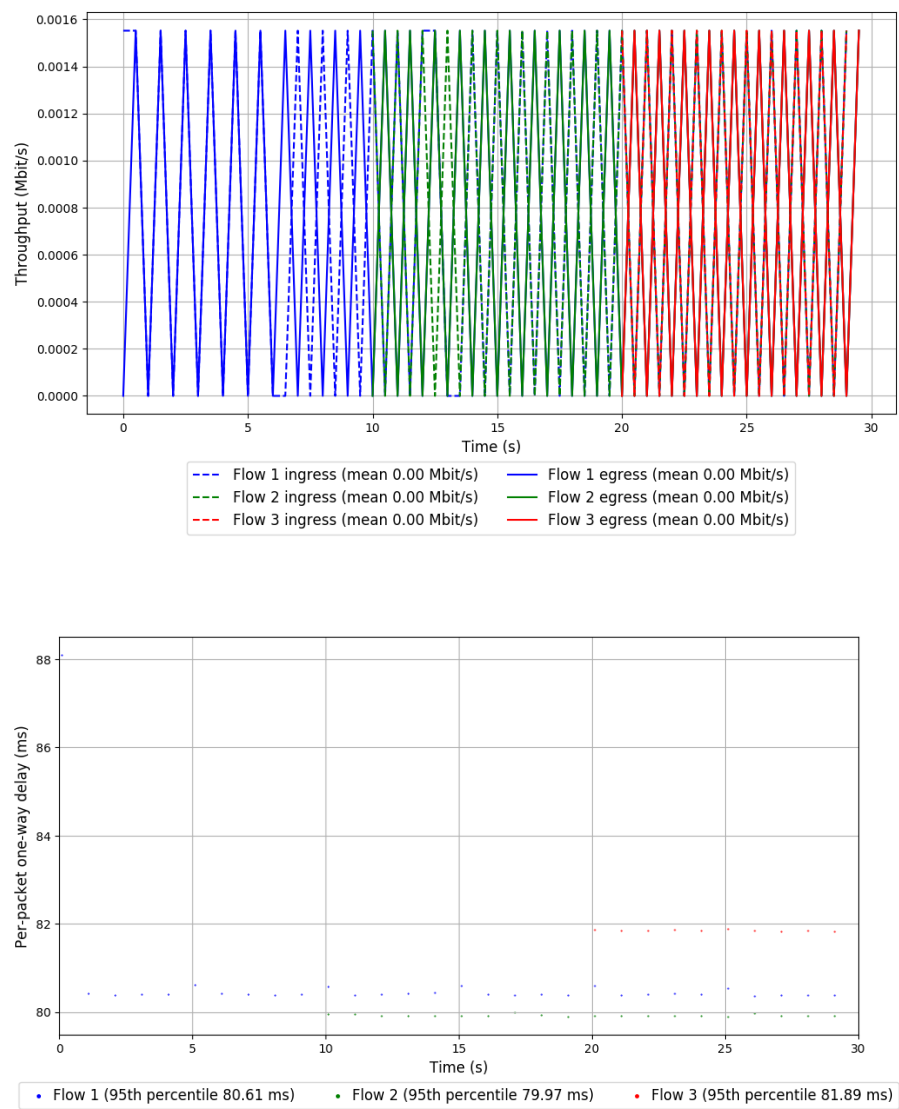
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 81.887 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-22 15:50:22

End at: 2018-05-22 15:50:52

Local clock offset: -1.479 ms

Remote clock offset: 6.322 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 81.163 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 81.163 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 81.935 ms

Loss rate: 0.00%

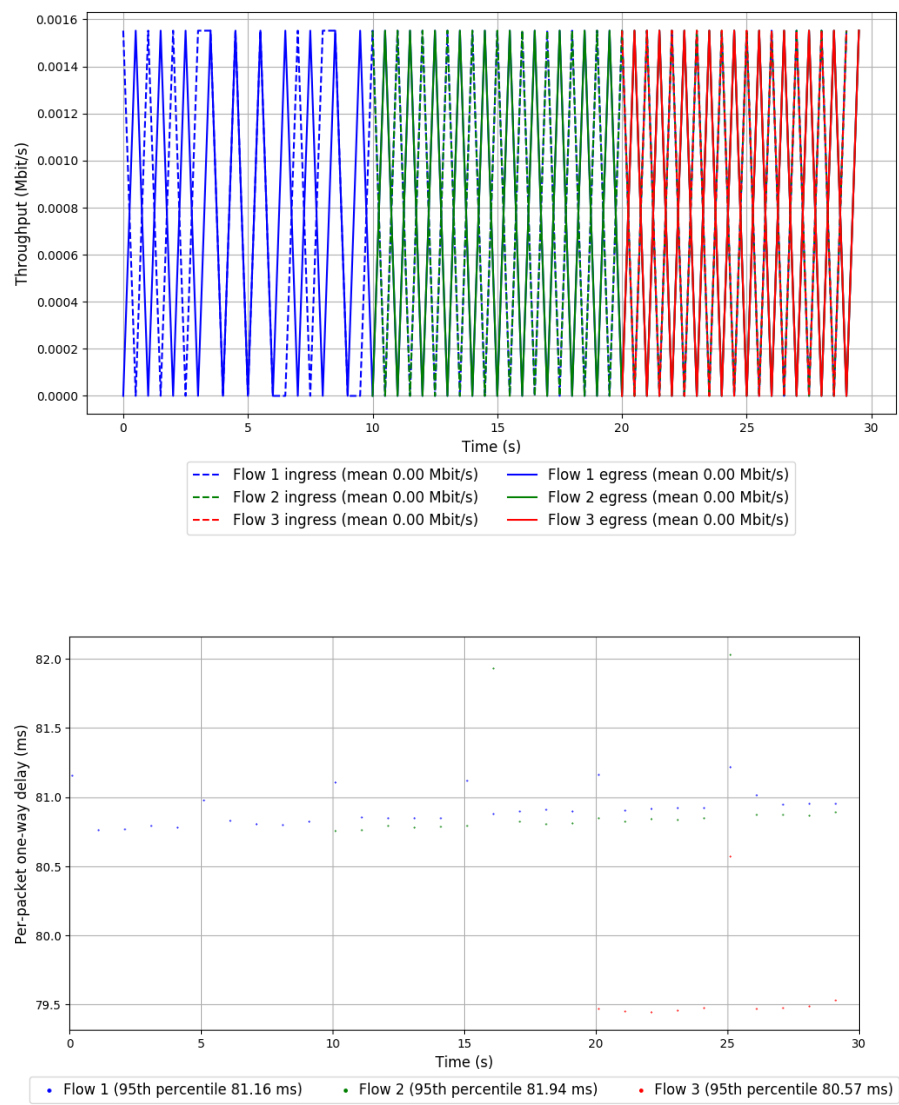
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 80.572 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-22 16:09:57

End at: 2018-05-22 16:10:27

Local clock offset: -2.39 ms

Remote clock offset: 4.725 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 85.807 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 86.002 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 83.734 ms

Loss rate: 0.00%

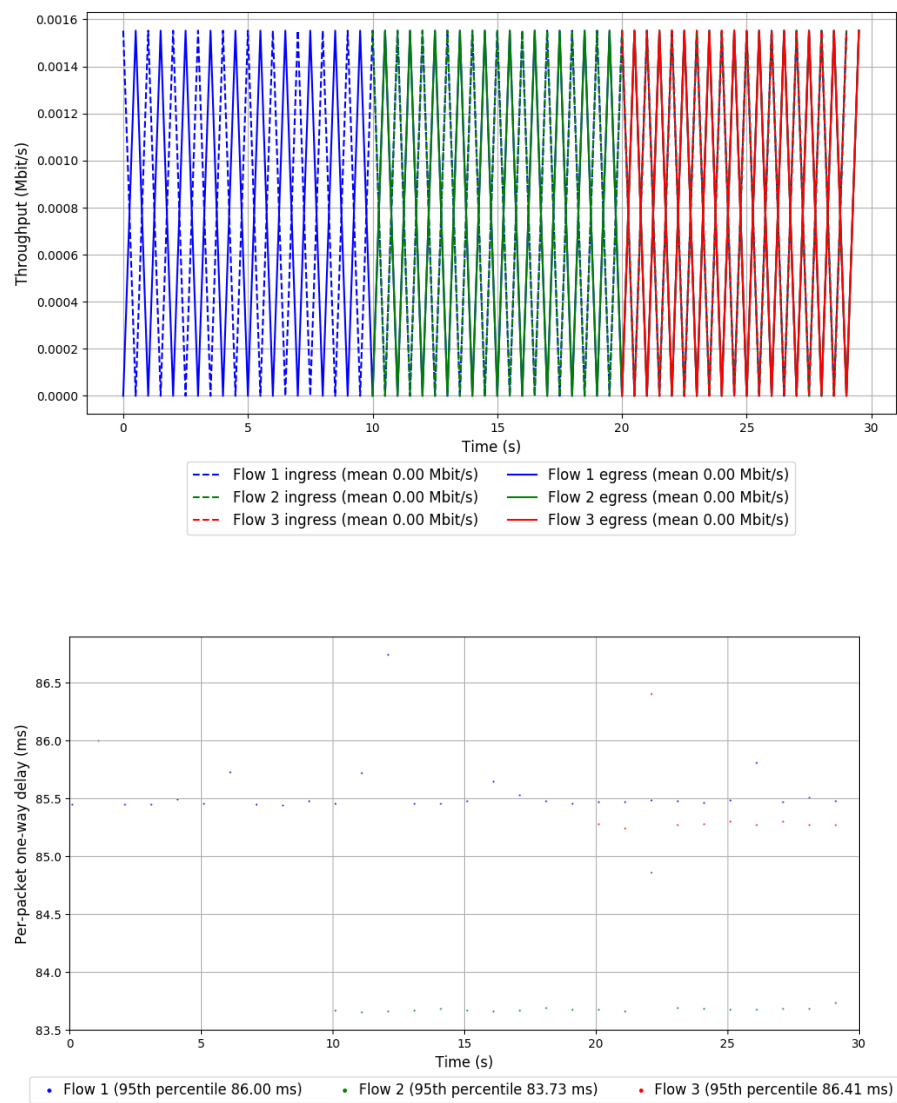
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 86.409 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link

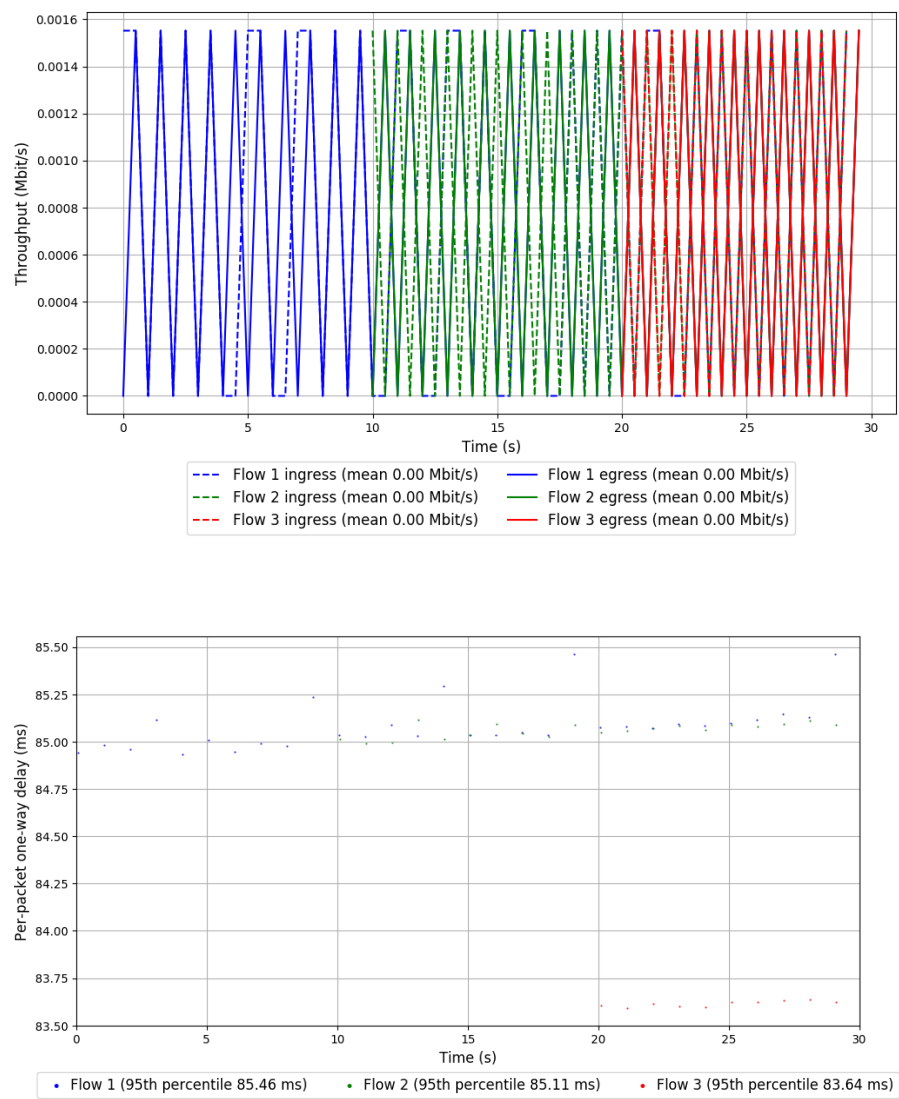


Run 4: Statistics of Verus

Start at: 2018-05-22 16:29:33
End at: 2018-05-22 16:30:03
Local clock offset: -3.733 ms
Remote clock offset: 5.41 ms

Below is generated by plot.py at 2018-05-22 19:01:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 85.234 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 85.461 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 85.110 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 83.637 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-05-22 16:49:13

End at: 2018-05-22 16:49:43

Local clock offset: -7.699 ms

Remote clock offset: 4.509 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 85.916 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 86.037 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 85.872 ms

Loss rate: 0.00%

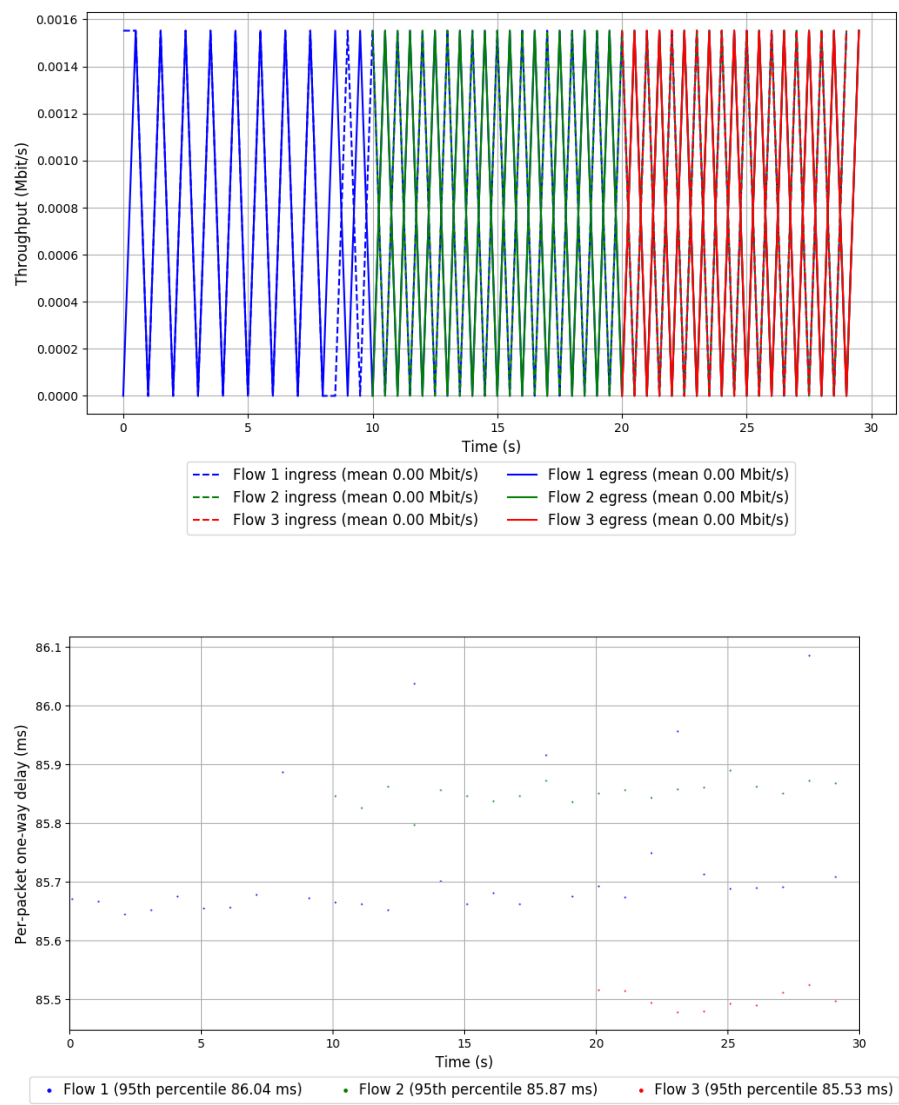
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 85.525 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-22 17:08:53

End at: 2018-05-22 17:09:23

Local clock offset: -7.145 ms

Remote clock offset: 8.687 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 80.255 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 79.066 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 78.425 ms

Loss rate: 0.00%

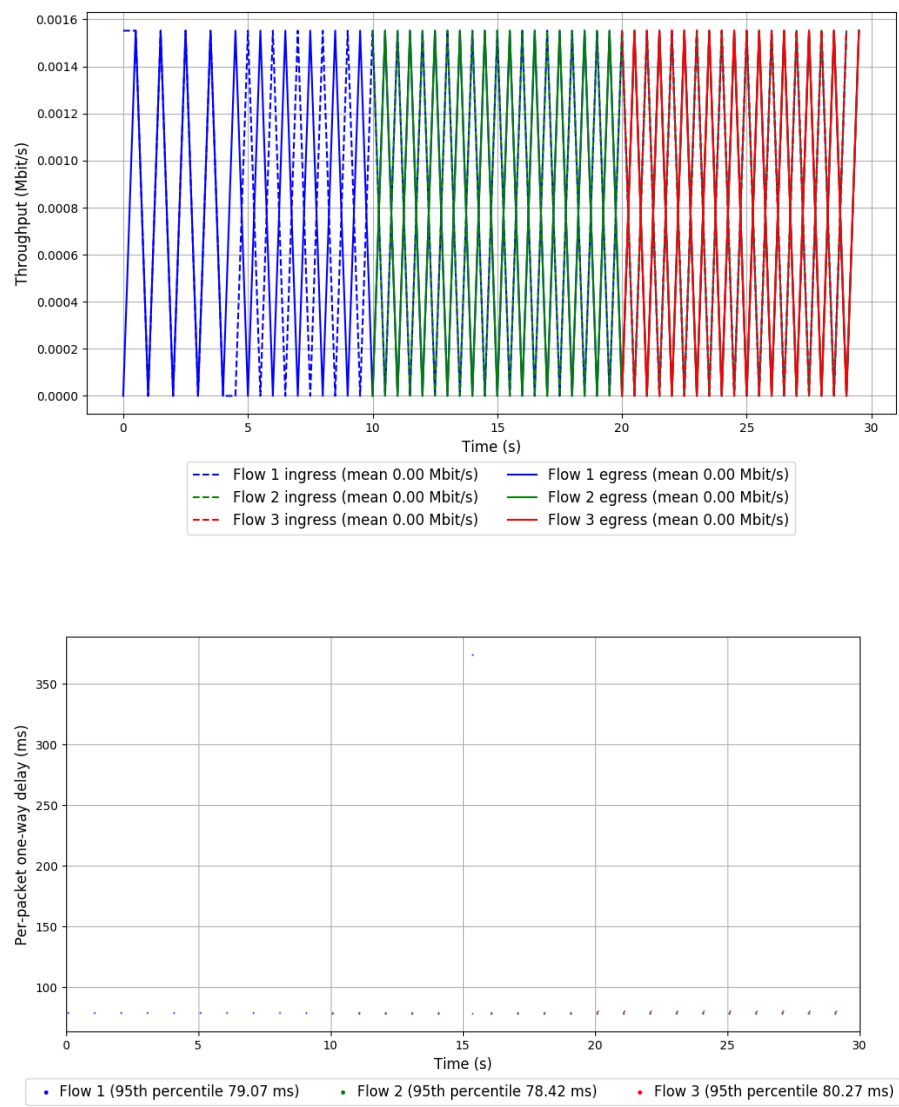
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 80.266 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-05-22 17:28:33

End at: 2018-05-22 17:29:03

Local clock offset: -4.977 ms

Remote clock offset: 5.063 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 85.682 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 85.767 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 83.782 ms

Loss rate: 0.00%

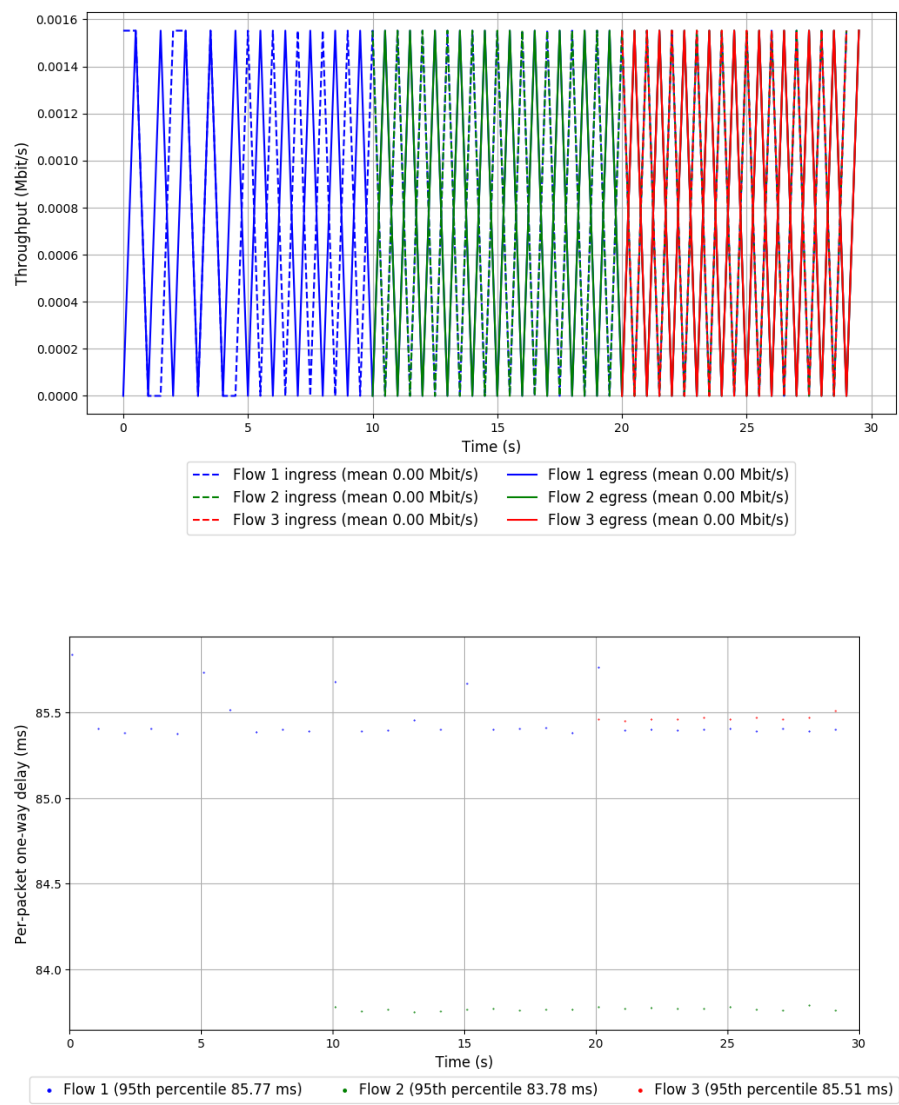
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 85.511 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link

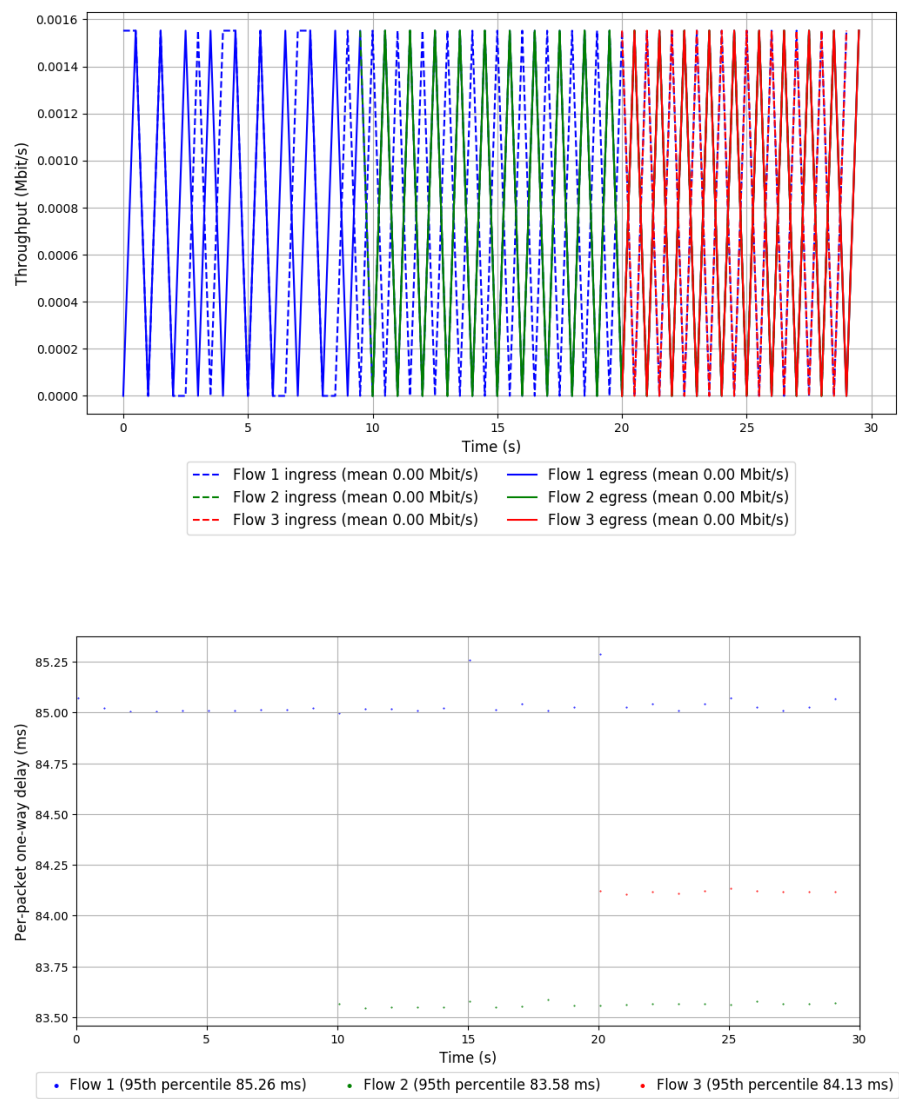


Run 8: Statistics of Verus

Start at: 2018-05-22 17:48:14
End at: 2018-05-22 17:48:44
Local clock offset: 0.643 ms
Remote clock offset: 11.239 ms

Below is generated by plot.py at 2018-05-22 19:01:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 85.071 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 85.261 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 83.577 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 84.133 ms
Loss rate: 0.00%

Run 8: Report of Verus — Data Link

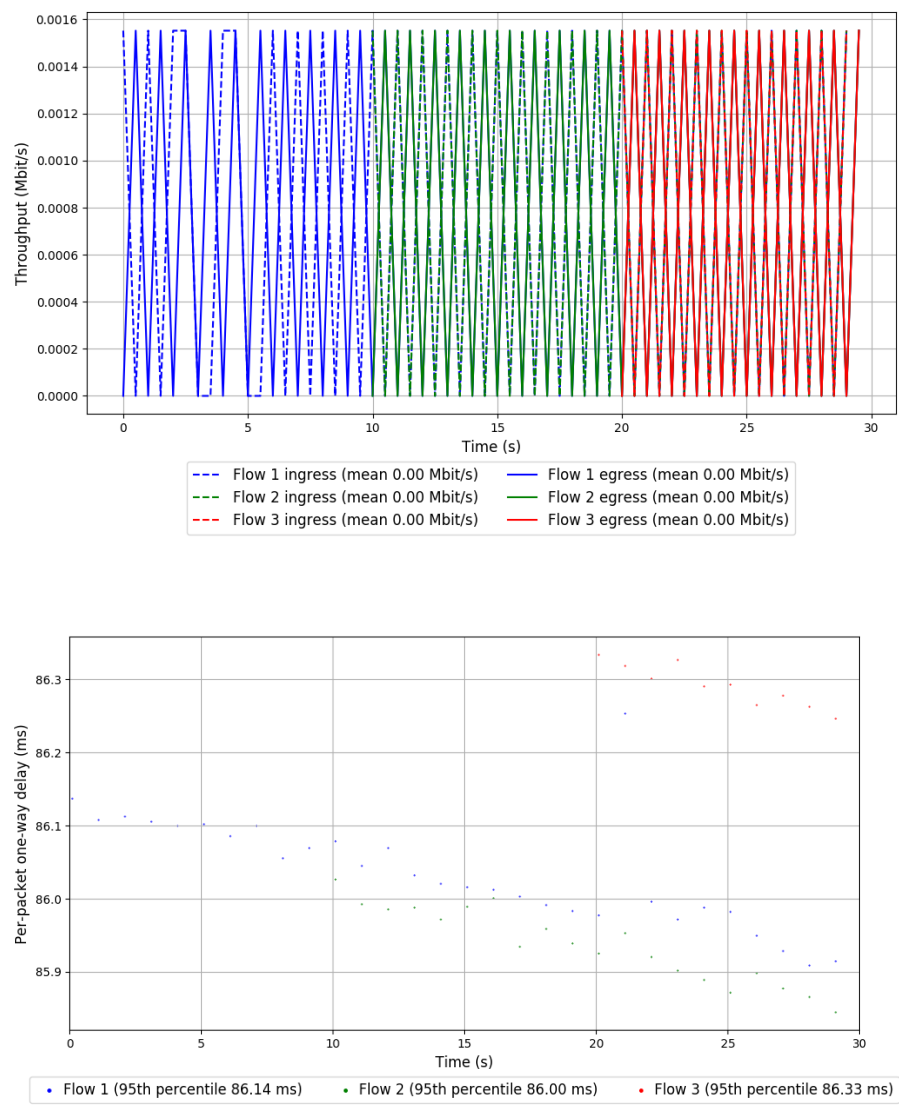


Run 9: Statistics of Verus

Start at: 2018-05-22 18:07:54
End at: 2018-05-22 18:08:24
Local clock offset: -0.271 ms
Remote clock offset: 6.068 ms

Below is generated by plot.py at 2018-05-22 19:01:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 86.301 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 86.137 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 86.001 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 86.333 ms
Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-22 18:27:34

End at: 2018-05-22 18:28:04

Local clock offset: -1.435 ms

Remote clock offset: 1.968 ms

Below is generated by plot.py at 2018-05-22 19:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 84.309 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 83.437 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 83.130 ms

Loss rate: 0.00%

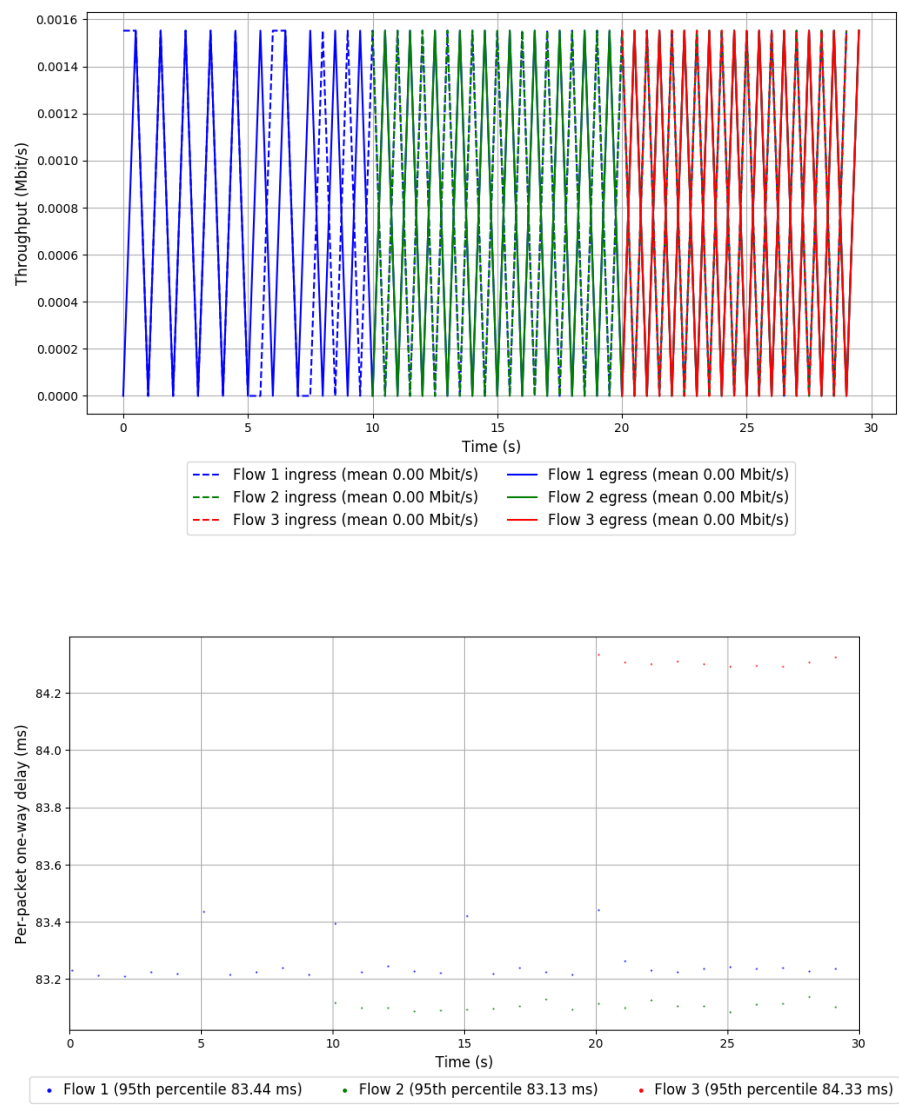
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 84.334 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

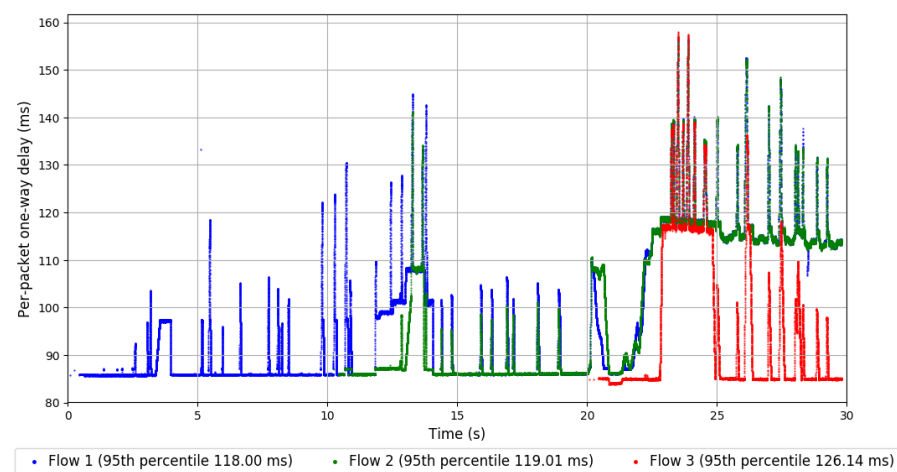
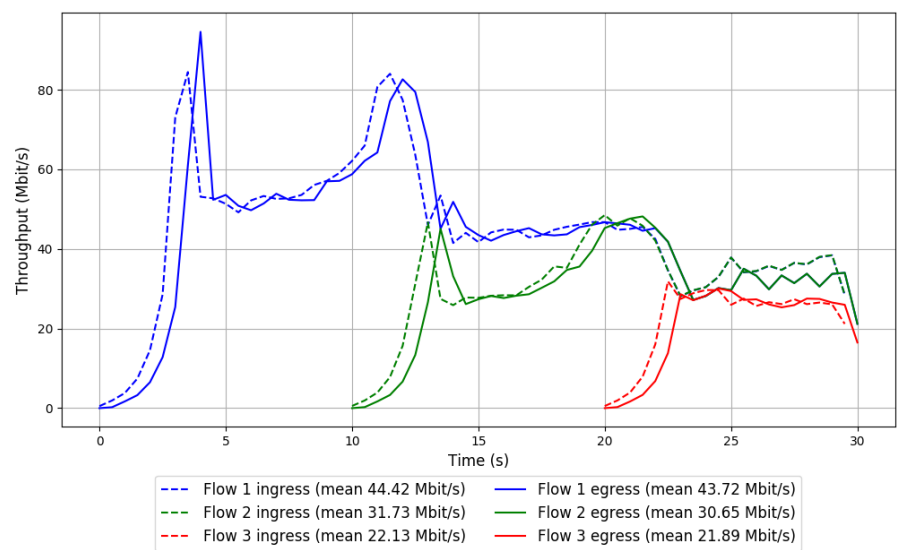


Run 1: Statistics of PCC-Vivace

Start at: 2018-05-22 15:44:08
End at: 2018-05-22 15:44:38
Local clock offset: -2.35 ms
Remote clock offset: -2.891 ms

Below is generated by plot.py at 2018-05-22 19:01:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.21 Mbit/s
95th percentile per-packet one-way delay: 118.433 ms
Loss rate: 2.81%
-- Flow 1:
Average throughput: 43.72 Mbit/s
95th percentile per-packet one-way delay: 118.004 ms
Loss rate: 2.12%
-- Flow 2:
Average throughput: 30.65 Mbit/s
95th percentile per-packet one-way delay: 119.008 ms
Loss rate: 4.28%
-- Flow 3:
Average throughput: 21.89 Mbit/s
95th percentile per-packet one-way delay: 126.137 ms
Loss rate: 2.72%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-22 16:03:42

End at: 2018-05-22 16:04:12

Local clock offset: -3.142 ms

Remote clock offset: 7.823 ms

Below is generated by plot.py at 2018-05-22 19:01:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.19 Mbit/s

95th percentile per-packet one-way delay: 111.873 ms

Loss rate: 2.27%

-- Flow 1:

Average throughput: 48.94 Mbit/s

95th percentile per-packet one-way delay: 110.580 ms

Loss rate: 2.52%

-- Flow 2:

Average throughput: 25.78 Mbit/s

95th percentile per-packet one-way delay: 111.654 ms

Loss rate: 1.31%

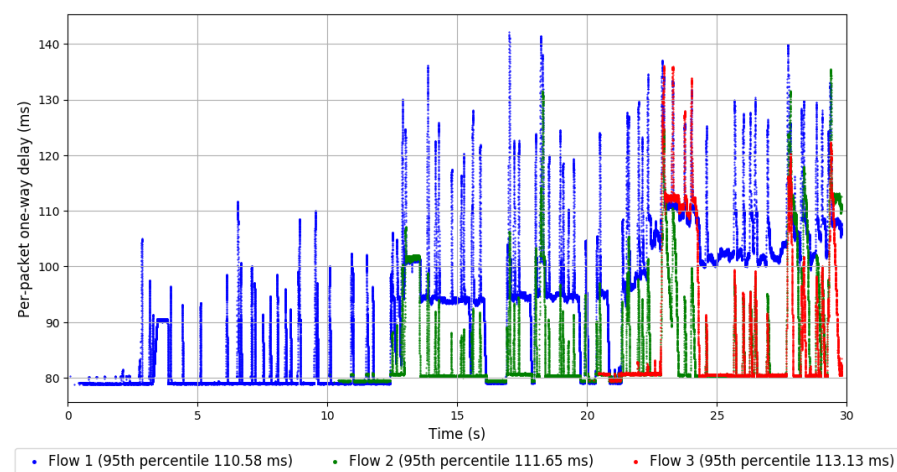
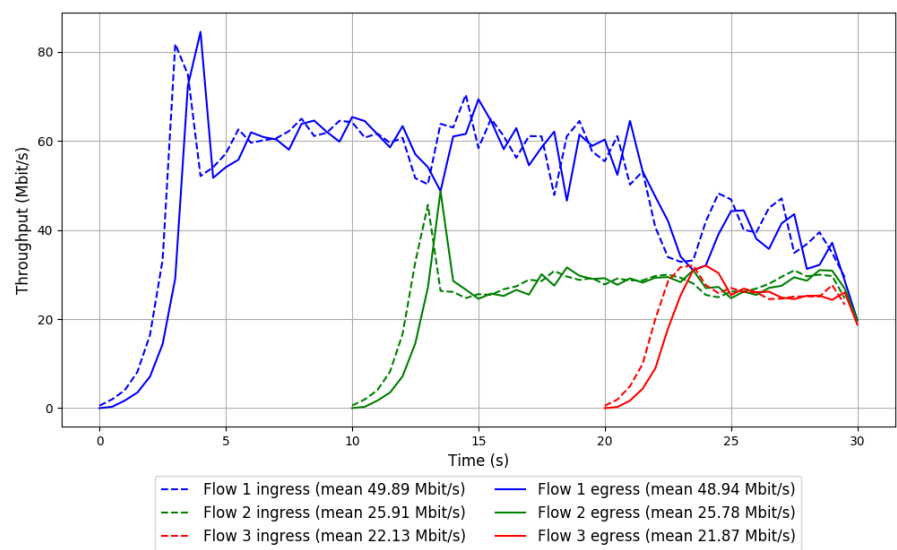
-- Flow 3:

Average throughput: 21.87 Mbit/s

95th percentile per-packet one-way delay: 113.133 ms

Loss rate: 2.76%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-22 16:23:19

End at: 2018-05-22 16:23:49

Local clock offset: -1.49 ms

Remote clock offset: 4.943 ms

Below is generated by plot.py at 2018-05-22 19:01:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.10 Mbit/s

95th percentile per-packet one-way delay: 111.513 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 42.38 Mbit/s

95th percentile per-packet one-way delay: 109.925 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 26.98 Mbit/s

95th percentile per-packet one-way delay: 112.200 ms

Loss rate: 1.12%

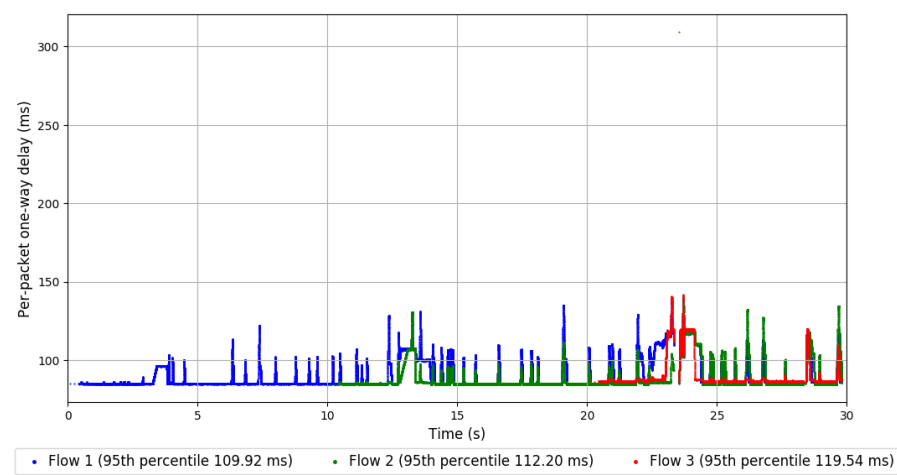
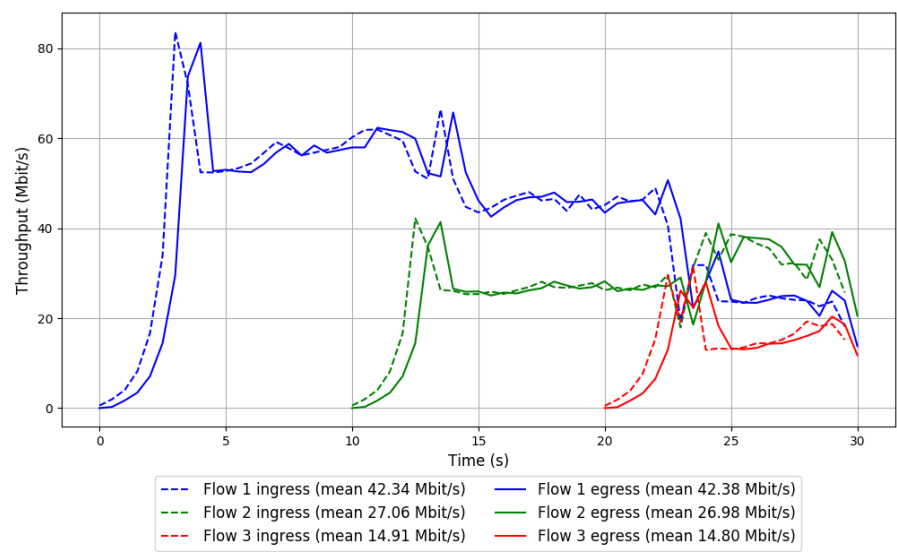
-- Flow 3:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 119.543 ms

Loss rate: 2.40%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-22 16:42:56

End at: 2018-05-22 16:43:26

Local clock offset: -6.95 ms

Remote clock offset: 5.373 ms

Below is generated by plot.py at 2018-05-22 19:02:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.42 Mbit/s

95th percentile per-packet one-way delay: 114.169 ms

Loss rate: 3.48%

-- Flow 1:

Average throughput: 48.87 Mbit/s

95th percentile per-packet one-way delay: 108.696 ms

Loss rate: 3.70%

-- Flow 2:

Average throughput: 33.94 Mbit/s

95th percentile per-packet one-way delay: 115.834 ms

Loss rate: 3.14%

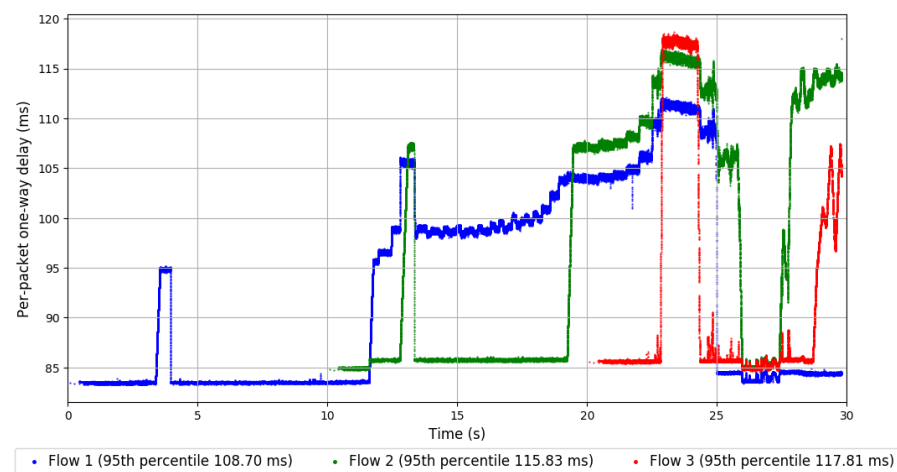
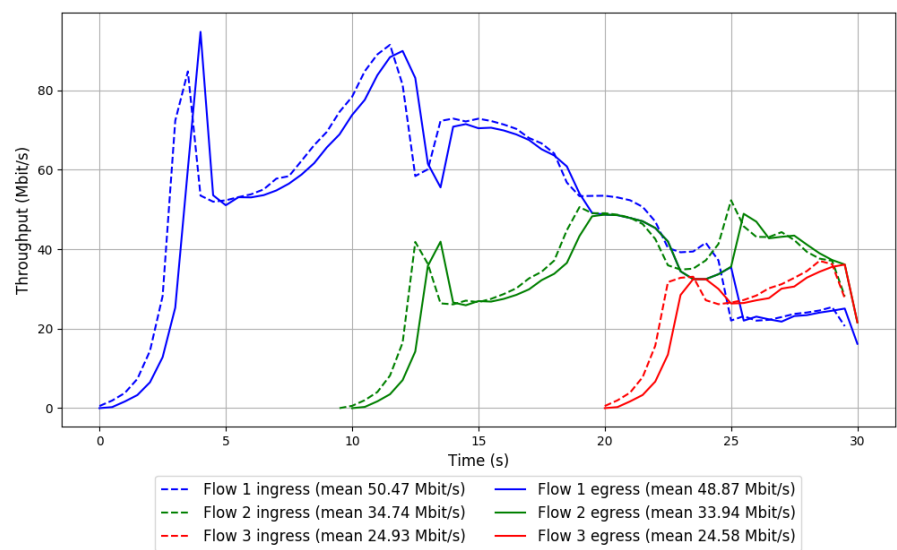
-- Flow 3:

Average throughput: 24.58 Mbit/s

95th percentile per-packet one-way delay: 117.808 ms

Loss rate: 3.03%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-22 17:02:37

End at: 2018-05-22 17:03:07

Local clock offset: -7.477 ms

Remote clock offset: 4.246 ms

Below is generated by plot.py at 2018-05-22 19:02:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.12 Mbit/s

95th percentile per-packet one-way delay: 115.377 ms

Loss rate: 3.41%

-- Flow 1:

Average throughput: 49.88 Mbit/s

95th percentile per-packet one-way delay: 112.974 ms

Loss rate: 2.77%

-- Flow 2:

Average throughput: 31.57 Mbit/s

95th percentile per-packet one-way delay: 115.827 ms

Loss rate: 5.23%

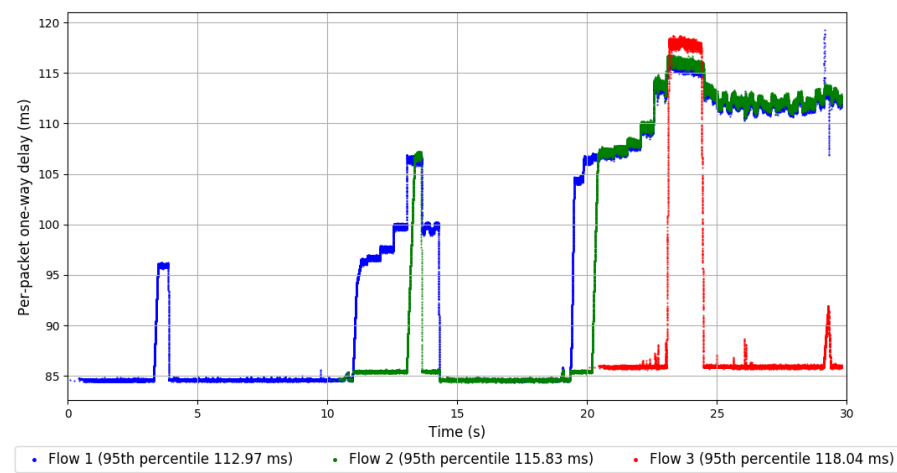
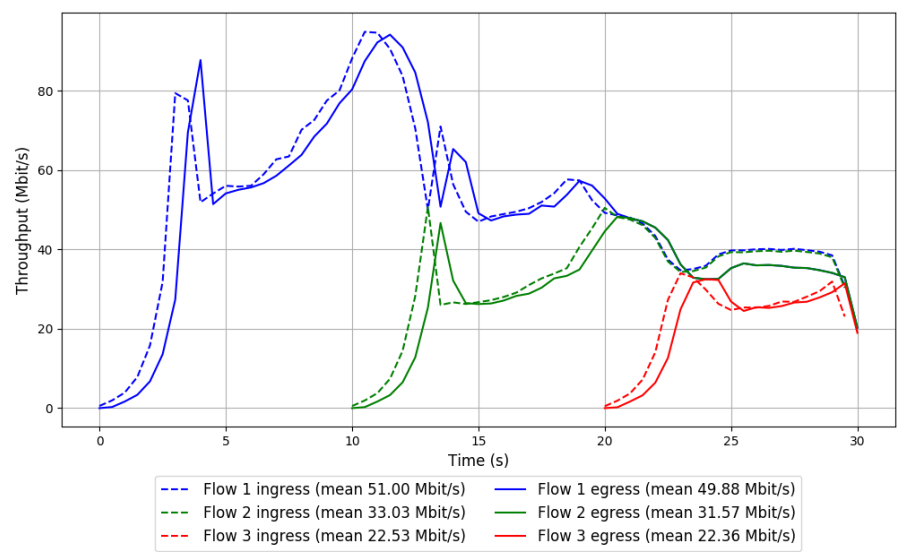
-- Flow 3:

Average throughput: 22.36 Mbit/s

95th percentile per-packet one-way delay: 118.043 ms

Loss rate: 2.44%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-22 17:22:17

End at: 2018-05-22 17:22:47

Local clock offset: -7.042 ms

Remote clock offset: 3.856 ms

Below is generated by plot.py at 2018-05-22 19:02:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.95 Mbit/s

95th percentile per-packet one-way delay: 111.924 ms

Loss rate: 3.03%

-- Flow 1:

Average throughput: 53.82 Mbit/s

95th percentile per-packet one-way delay: 110.317 ms

Loss rate: 3.38%

-- Flow 2:

Average throughput: 29.84 Mbit/s

95th percentile per-packet one-way delay: 112.173 ms

Loss rate: 2.15%

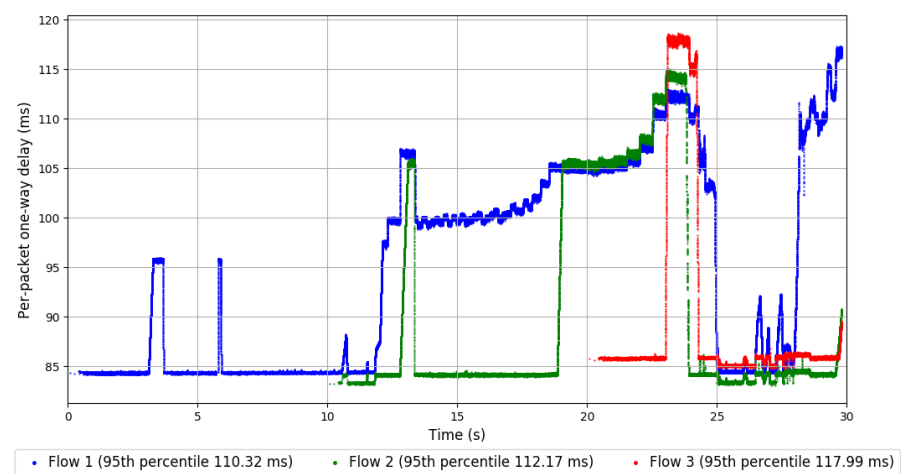
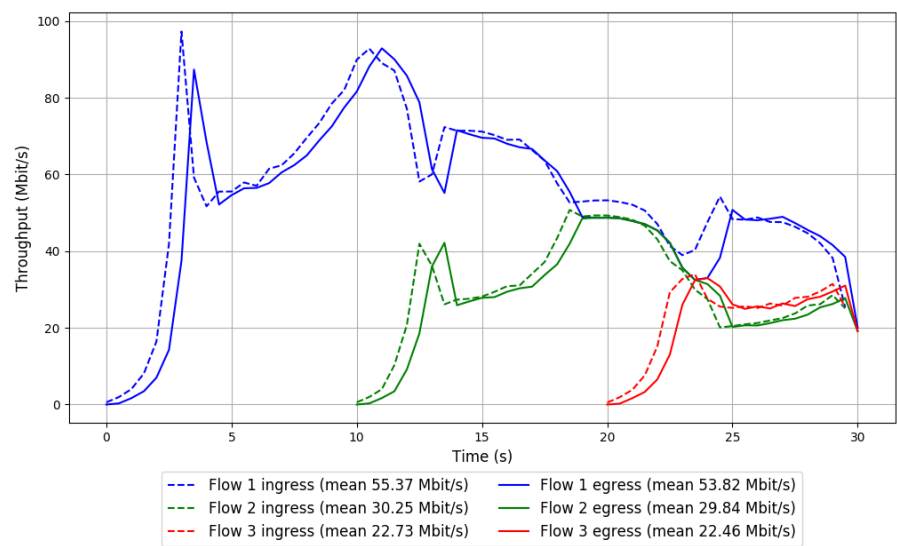
-- Flow 3:

Average throughput: 22.46 Mbit/s

95th percentile per-packet one-way delay: 117.987 ms

Loss rate: 2.84%

Run 6: Report of PCC-Vivace — Data Link

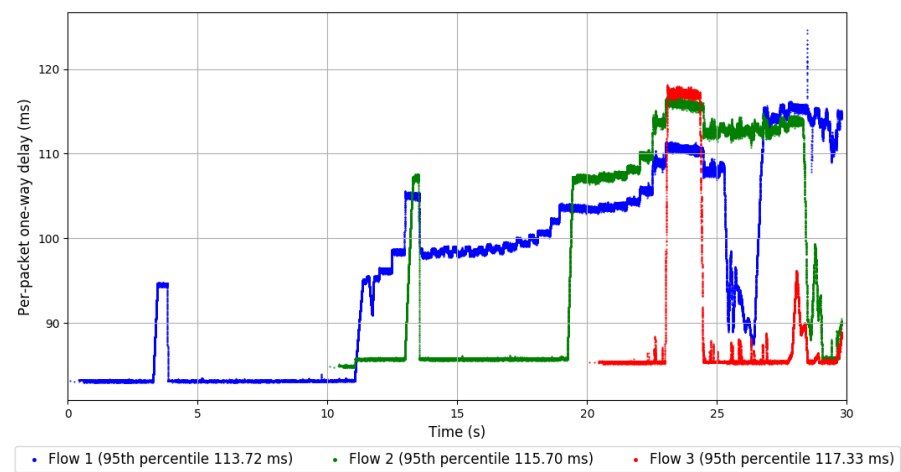
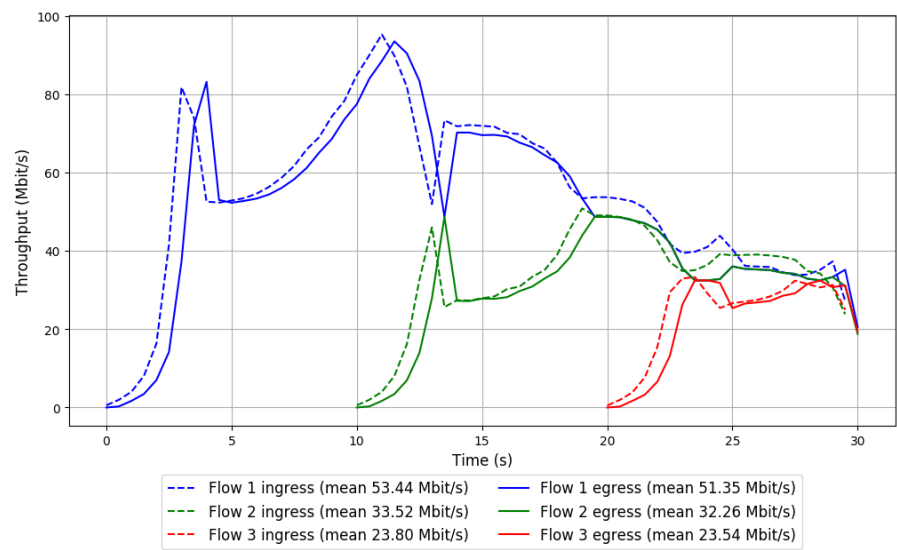


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-22 17:41:57
End at: 2018-05-22 17:42:27
Local clock offset: -1.041 ms
Remote clock offset: 10.069 ms

```
# Below is generated by plot.py at 2018-05-22 19:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.43 Mbit/s
95th percentile per-packet one-way delay: 115.043 ms
Loss rate: 4.31%
-- Flow 1:
Average throughput: 51.35 Mbit/s
95th percentile per-packet one-way delay: 113.721 ms
Loss rate: 4.44%
-- Flow 2:
Average throughput: 32.26 Mbit/s
95th percentile per-packet one-way delay: 115.704 ms
Loss rate: 4.57%
-- Flow 3:
Average throughput: 23.54 Mbit/s
95th percentile per-packet one-way delay: 117.328 ms
Loss rate: 2.74%
```

Run 7: Report of PCC-Vivace — Data Link

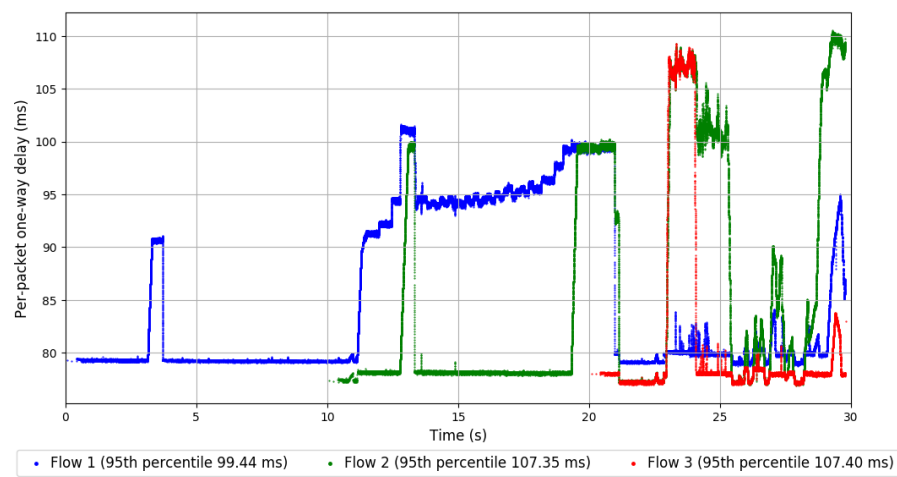
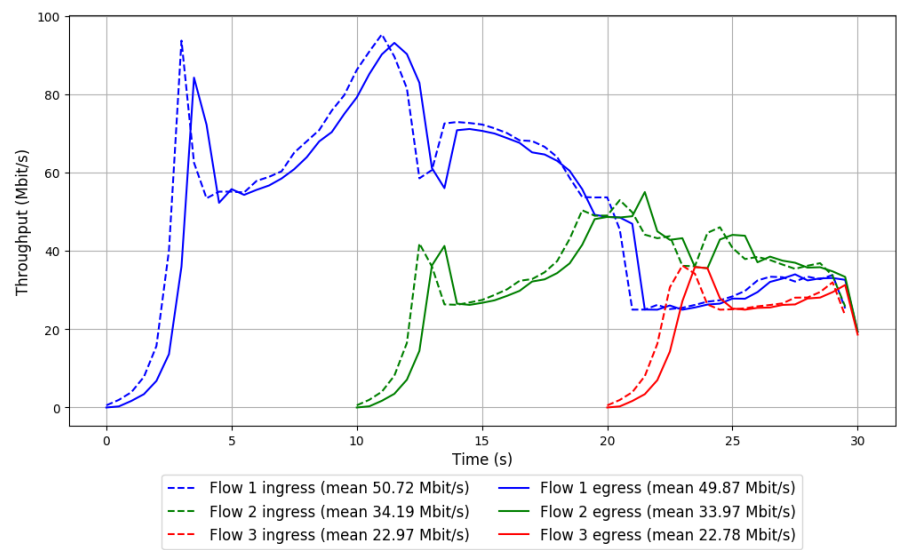


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-22 18:01:38
End at: 2018-05-22 18:02:08
Local clock offset: -1.157 ms
Remote clock offset: 16.576 ms

Below is generated by plot.py at 2018-05-22 19:02:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.83 Mbit/s
95th percentile per-packet one-way delay: 101.415 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 49.87 Mbit/s
95th percentile per-packet one-way delay: 99.441 ms
Loss rate: 2.23%
-- Flow 2:
Average throughput: 33.97 Mbit/s
95th percentile per-packet one-way delay: 107.349 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 22.78 Mbit/s
95th percentile per-packet one-way delay: 107.401 ms
Loss rate: 2.42%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-22 18:21:18

End at: 2018-05-22 18:21:48

Local clock offset: -2.051 ms

Remote clock offset: 6.577 ms

Below is generated by plot.py at 2018-05-22 19:02:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.95 Mbit/s

95th percentile per-packet one-way delay: 109.260 ms

Loss rate: 3.53%

-- Flow 1:

Average throughput: 55.37 Mbit/s

95th percentile per-packet one-way delay: 106.849 ms

Loss rate: 2.78%

-- Flow 2:

Average throughput: 24.43 Mbit/s

95th percentile per-packet one-way delay: 110.132 ms

Loss rate: 6.44%

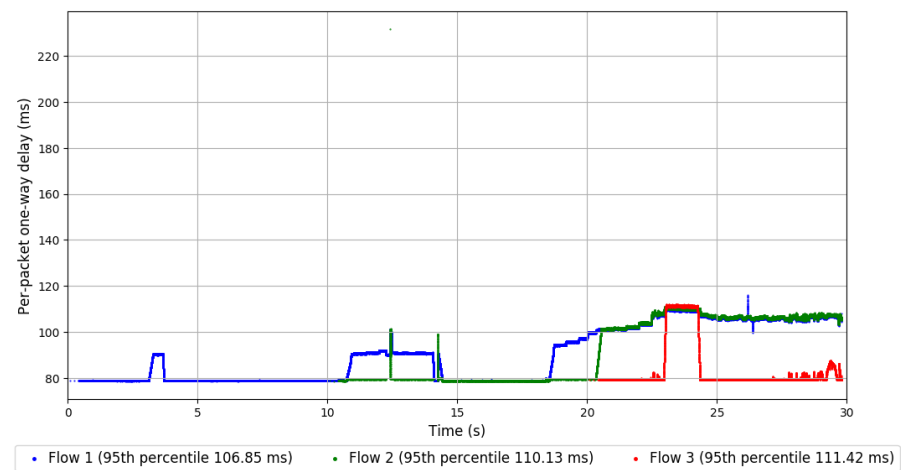
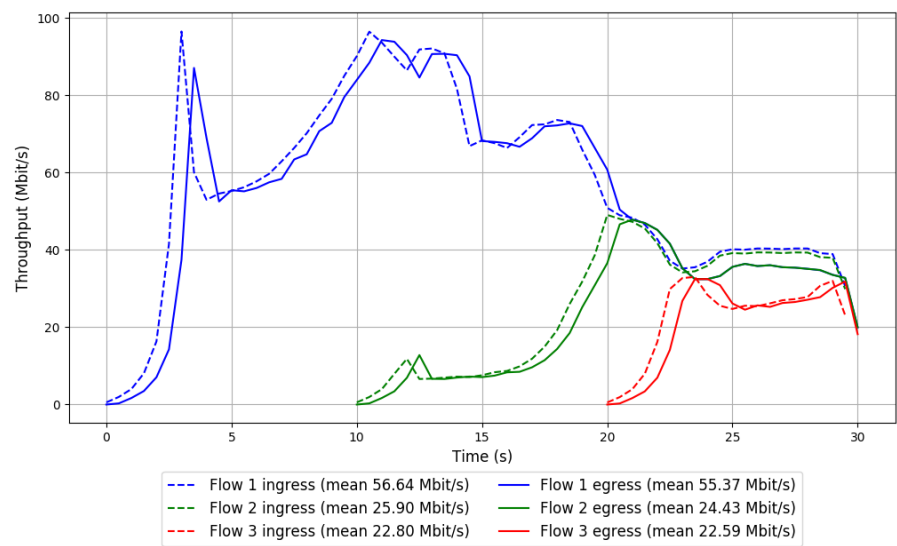
-- Flow 3:

Average throughput: 22.59 Mbit/s

95th percentile per-packet one-way delay: 111.419 ms

Loss rate: 2.53%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-22 18:40:58

End at: 2018-05-22 18:41:28

Local clock offset: -1.776 ms

Remote clock offset: 6.683 ms

Below is generated by plot.py at 2018-05-22 19:02:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.04 Mbit/s

95th percentile per-packet one-way delay: 112.534 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 50.75 Mbit/s

95th percentile per-packet one-way delay: 109.583 ms

Loss rate: 2.27%

-- Flow 2:

Average throughput: 33.06 Mbit/s

95th percentile per-packet one-way delay: 113.250 ms

Loss rate: 2.74%

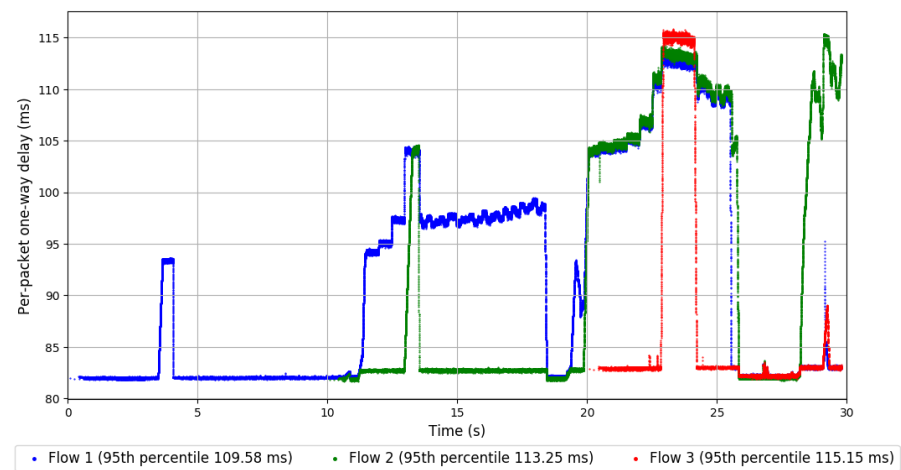
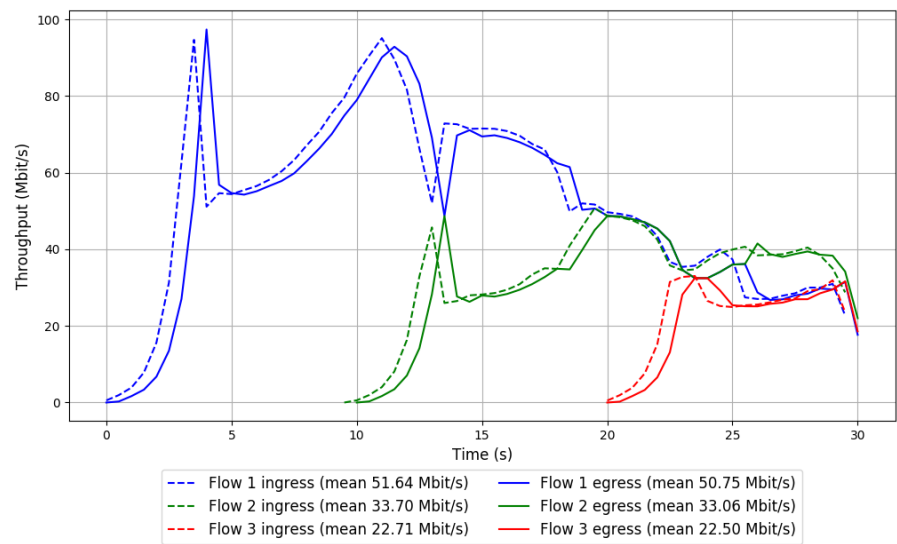
-- Flow 3:

Average throughput: 22.50 Mbit/s

95th percentile per-packet one-way delay: 115.151 ms

Loss rate: 2.55%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-05-22 15:36:43

End at: 2018-05-22 15:37:13

Local clock offset: -2.298 ms

Remote clock offset: 2.171 ms

Below is generated by plot.py at 2018-05-22 19:02:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 81.448 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 81.518 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 80.003 ms

Loss rate: 1.10%

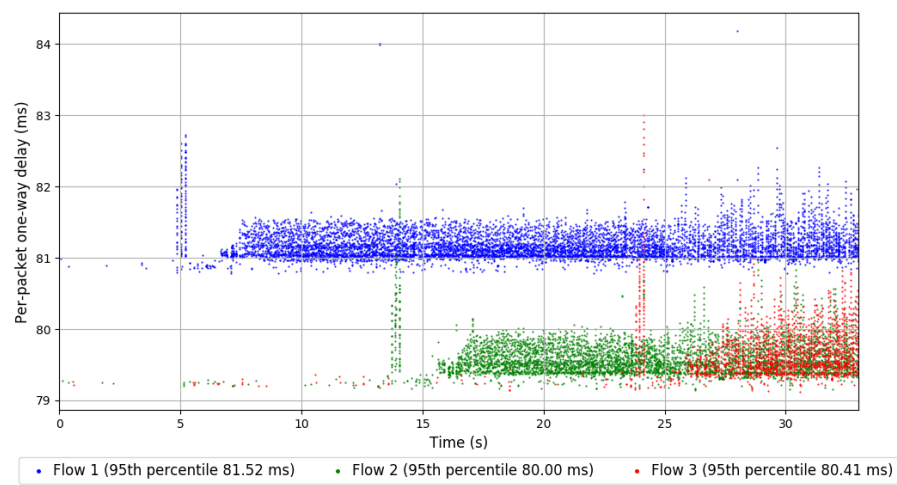
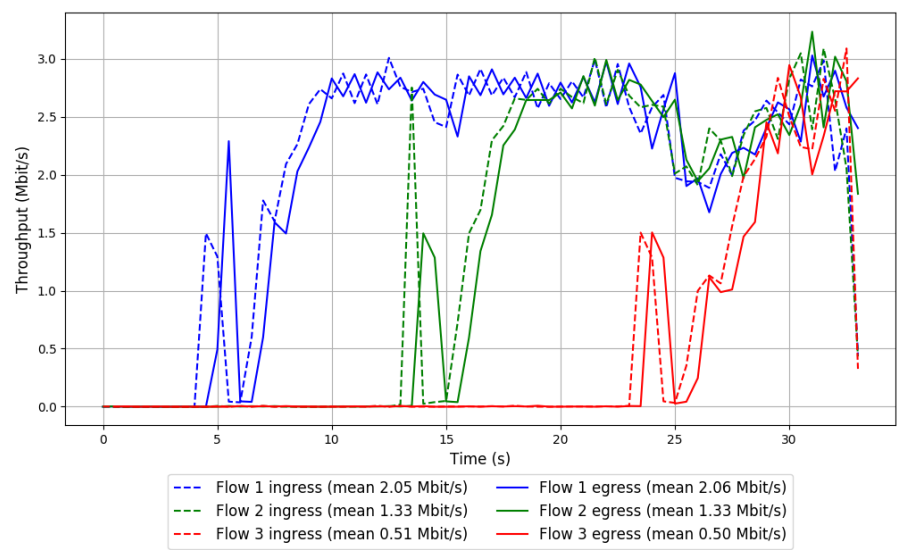
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 80.407 ms

Loss rate: 2.65%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-22 15:56:20

End at: 2018-05-22 15:56:50

Local clock offset: -2.147 ms

Remote clock offset: 7.358 ms

Below is generated by plot.py at 2018-05-22 19:02:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 82.130 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 81.105 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 81.842 ms

Loss rate: 0.90%

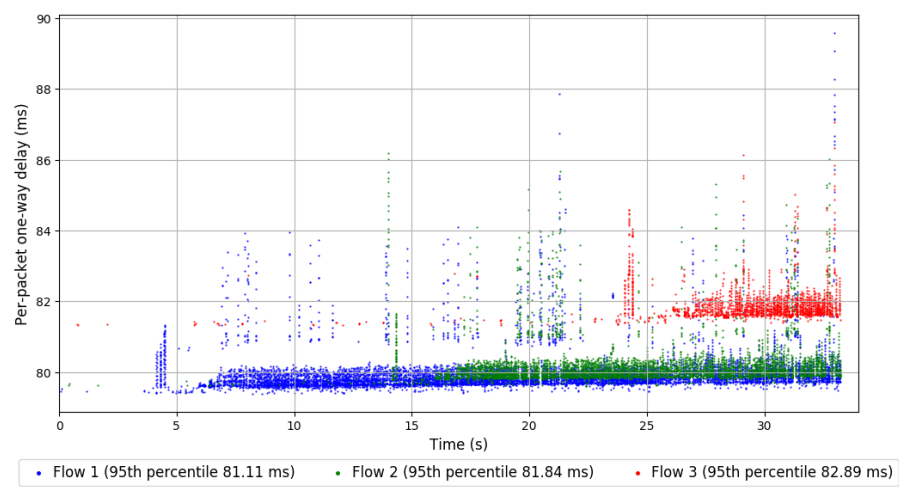
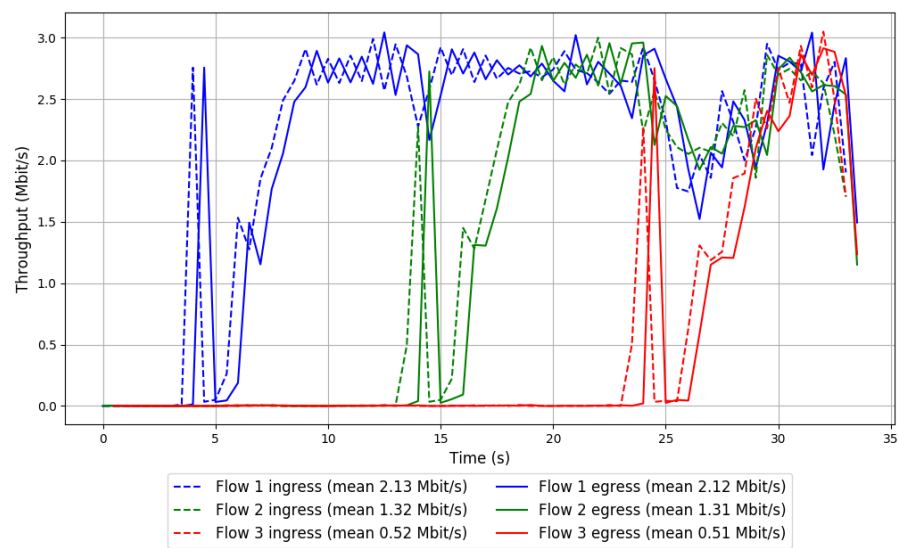
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 82.893 ms

Loss rate: 2.64%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-22 16:15:55

End at: 2018-05-22 16:16:25

Local clock offset: -1.604 ms

Remote clock offset: 10.78 ms

Below is generated by plot.py at 2018-05-22 19:02:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 81.372 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 80.505 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 81.856 ms

Loss rate: 0.87%

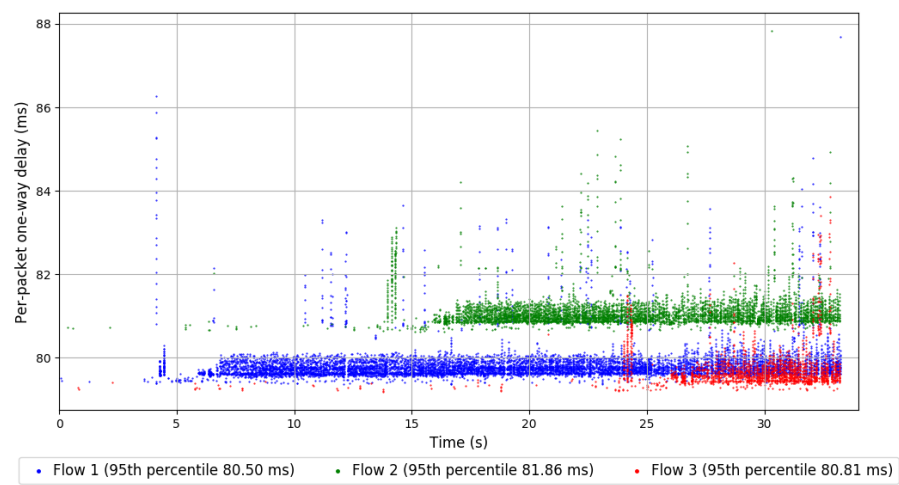
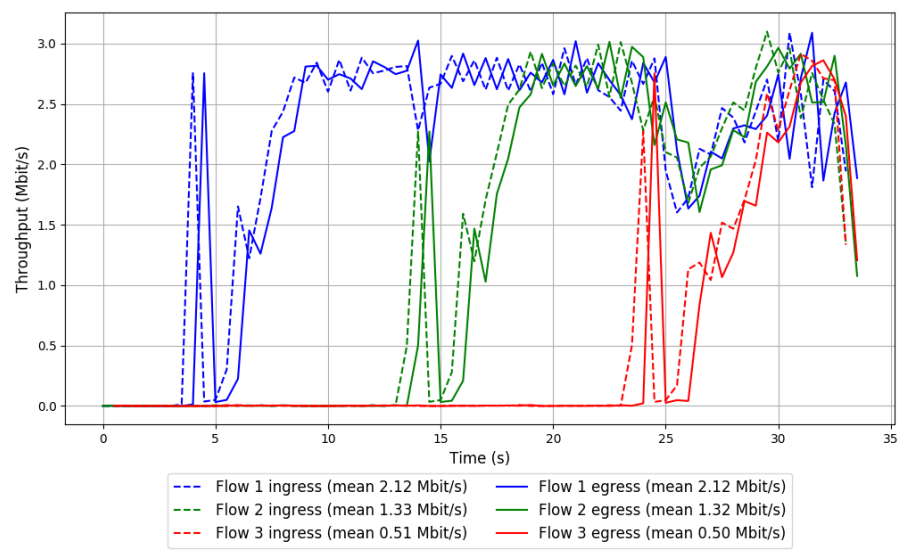
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 80.805 ms

Loss rate: 2.55%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-22 16:35:31

End at: 2018-05-22 16:36:01

Local clock offset: -4.899 ms

Remote clock offset: 9.113 ms

Below is generated by plot.py at 2018-05-22 19:02:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 82.354 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 81.103 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 81.306 ms

Loss rate: 0.77%

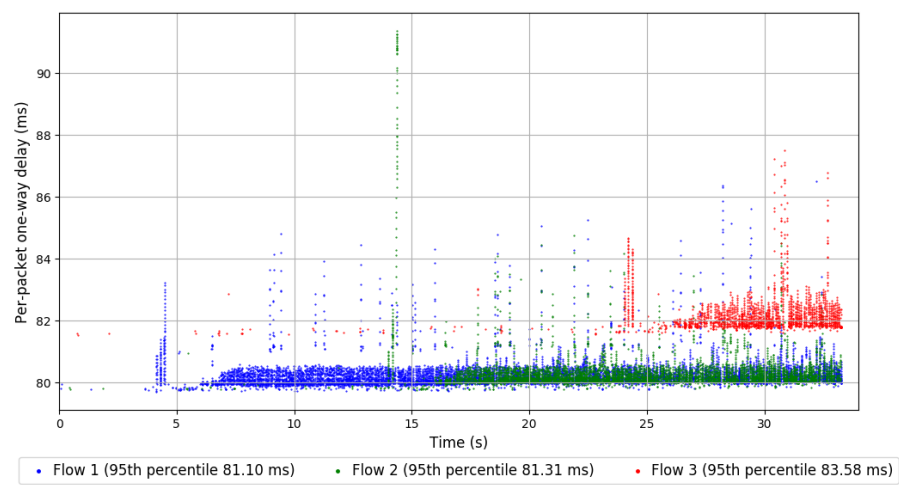
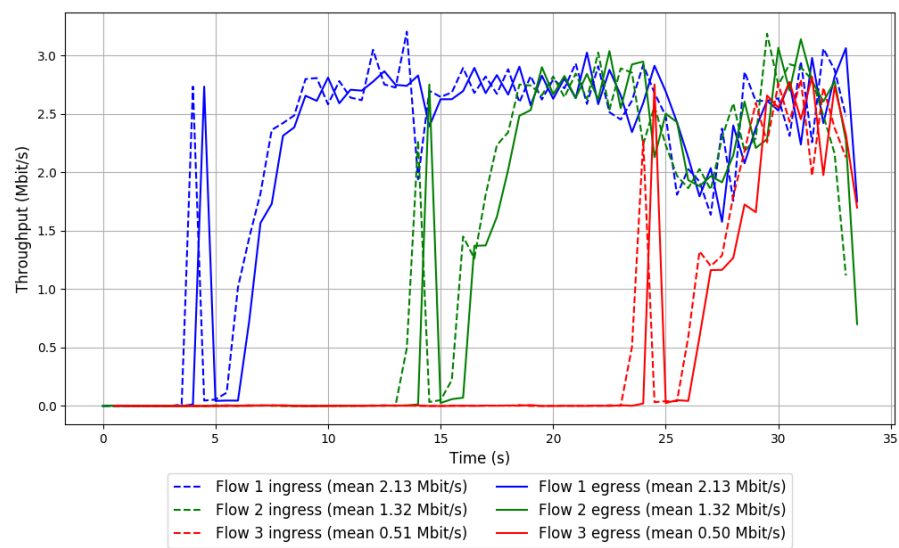
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 83.581 ms

Loss rate: 2.57%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-22 16:55:12

End at: 2018-05-22 16:55:42

Local clock offset: -8.094 ms

Remote clock offset: 4.887 ms

Below is generated by plot.py at 2018-05-22 19:02:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 85.357 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 83.725 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 85.553 ms

Loss rate: 0.81%

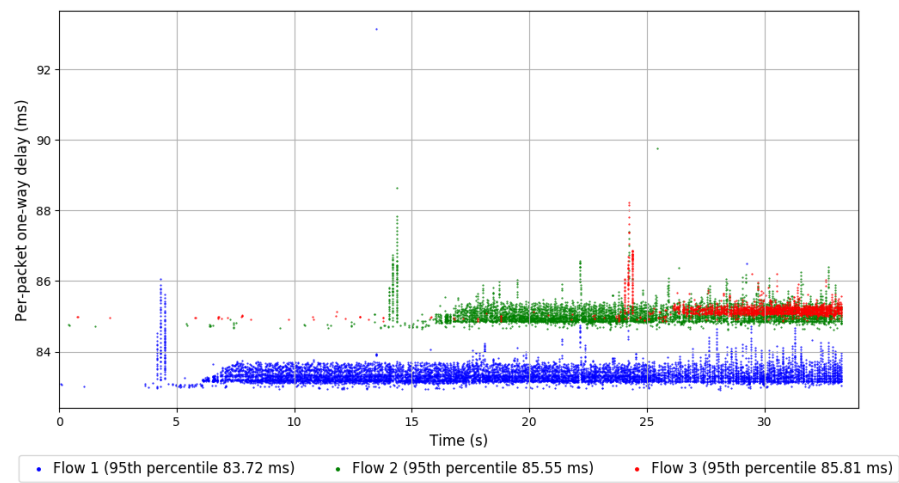
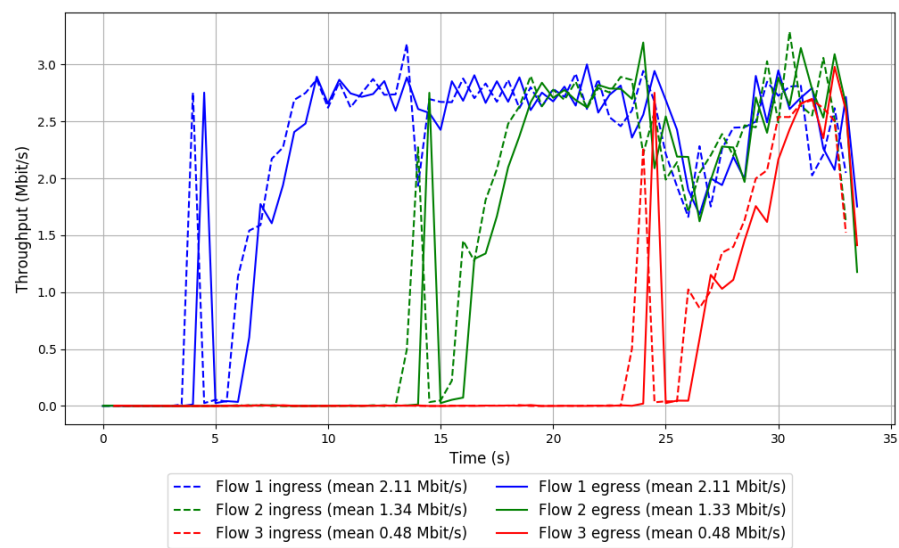
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 85.809 ms

Loss rate: 1.29%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-22 17:14:52

End at: 2018-05-22 17:15:22

Local clock offset: -7.768 ms

Remote clock offset: 8.476 ms

Below is generated by plot.py at 2018-05-22 19:02:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 80.277 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 80.344 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 78.582 ms

Loss rate: 0.81%

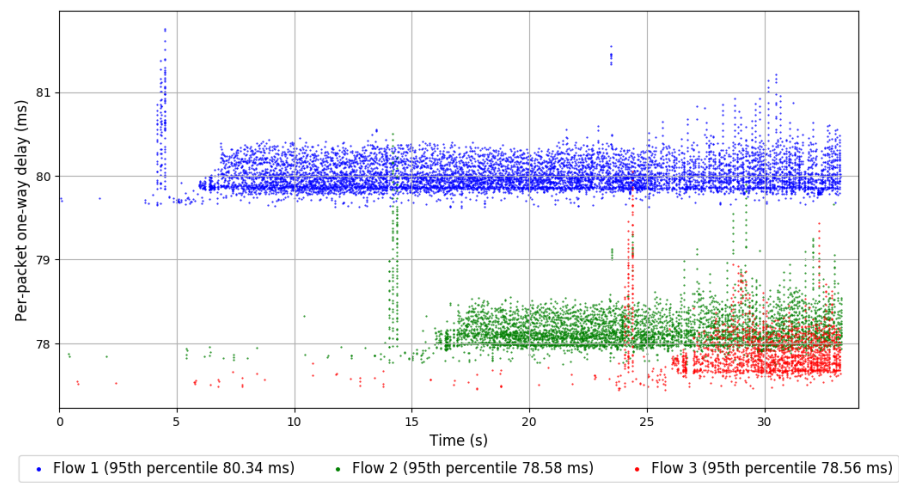
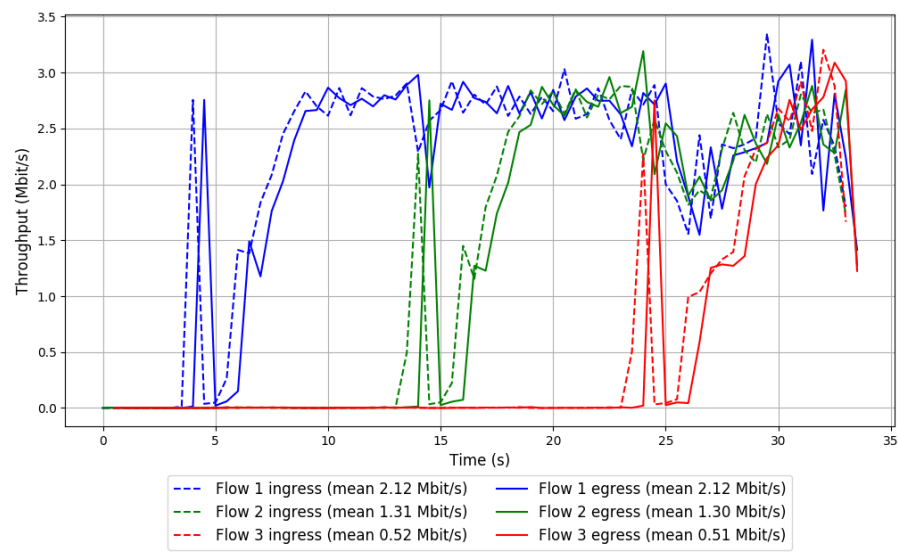
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 78.558 ms

Loss rate: 2.53%

Run 6: Report of WebRTC media — Data Link

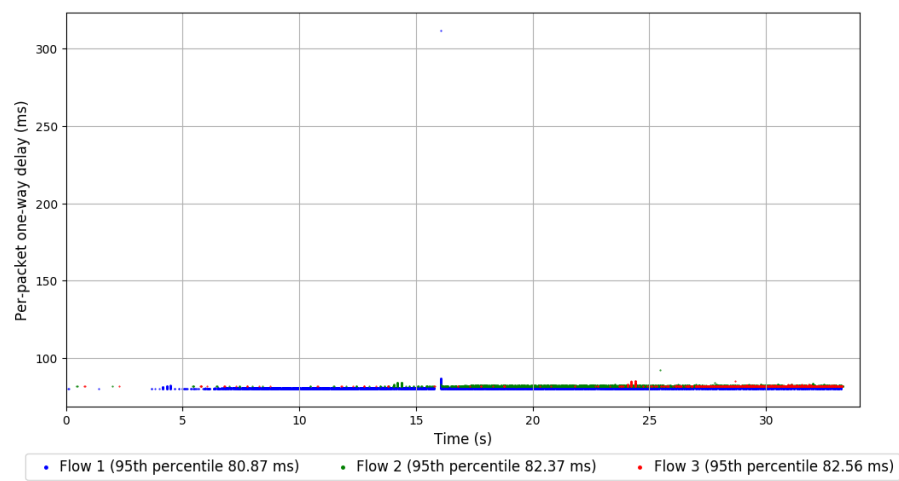
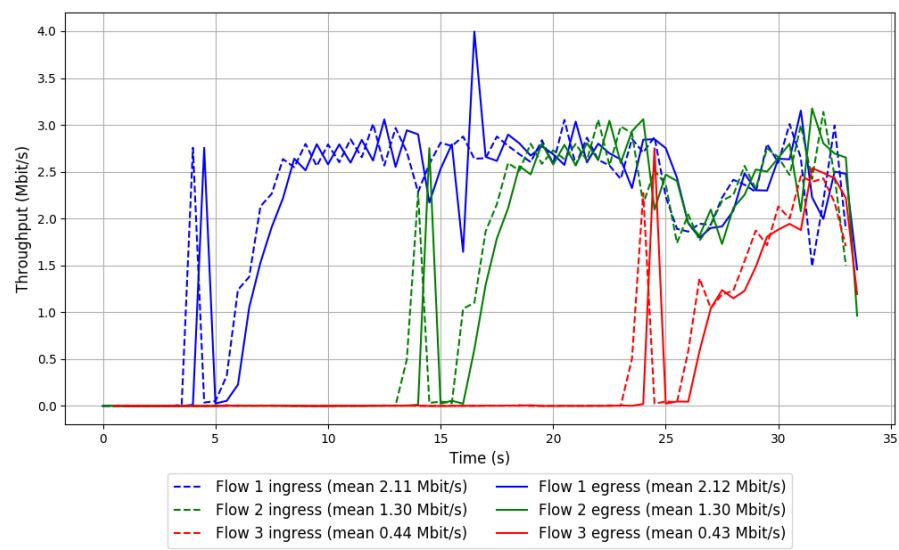


Run 7: Statistics of WebRTC media

Start at: 2018-05-22 17:34:32
End at: 2018-05-22 17:35:02
Local clock offset: -2.176 ms
Remote clock offset: 11.667 ms

Below is generated by plot.py at 2018-05-22 19:02:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 82.246 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 80.868 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 82.369 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 82.556 ms
Loss rate: 2.51%

Run 7: Report of WebRTC media — Data Link

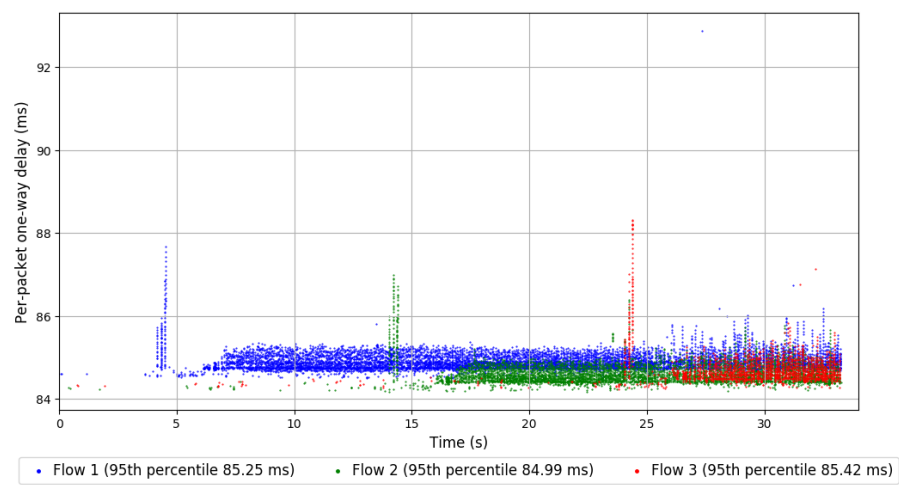
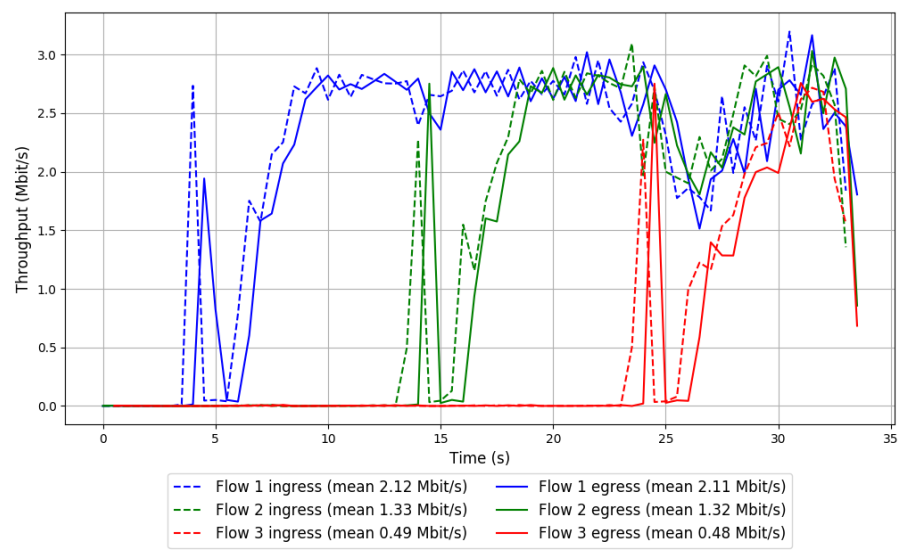


Run 8: Statistics of WebRTC media

Start at: 2018-05-22 17:54:13
End at: 2018-05-22 17:54:43
Local clock offset: 1.282 ms
Remote clock offset: 11.163 ms

Below is generated by plot.py at 2018-05-22 19:02:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 85.226 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 85.247 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 84.991 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 85.423 ms
Loss rate: 2.71%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-22 18:13:53

End at: 2018-05-22 18:14:23

Local clock offset: -2.084 ms

Remote clock offset: 3.632 ms

Below is generated by plot.py at 2018-05-22 19:02:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 85.239 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 83.866 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 85.399 ms

Loss rate: 1.13%

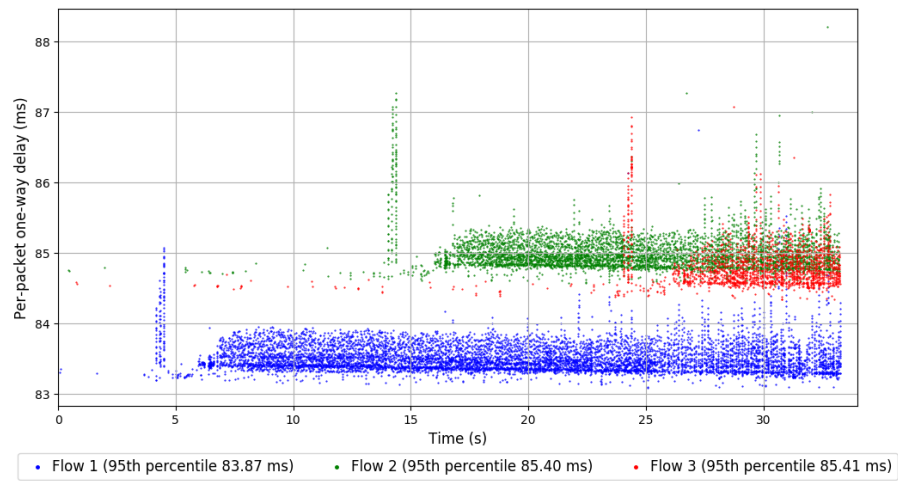
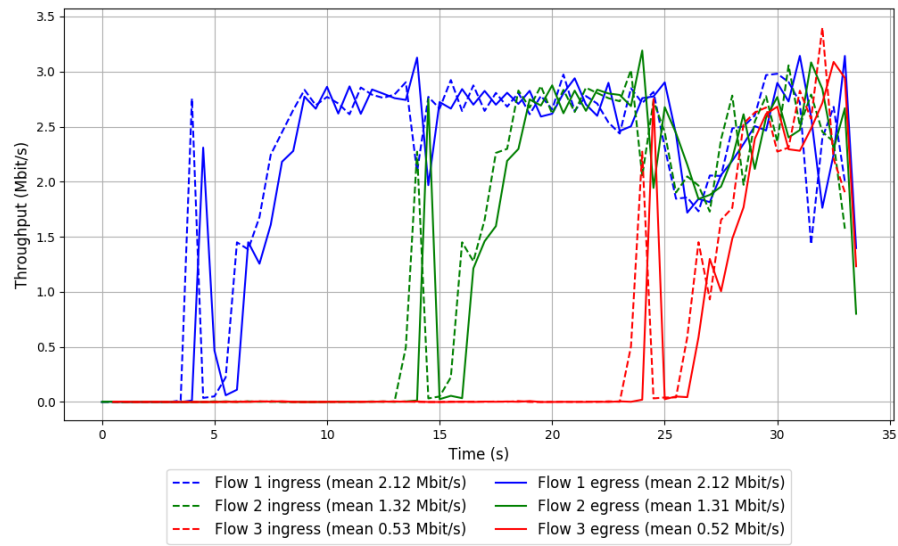
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 85.408 ms

Loss rate: 2.43%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-22 18:33:33

End at: 2018-05-22 18:34:03

Local clock offset: -1.352 ms

Remote clock offset: 1.472 ms

Below is generated by plot.py at 2018-05-22 19:02:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 86.167 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 86.240 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 84.463 ms

Loss rate: 0.82%

-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 84.779 ms

Loss rate: 2.46%

Run 10: Report of WebRTC media — Data Link

