

Pantheon Report

Generated at 2018-07-25 11:26:48 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

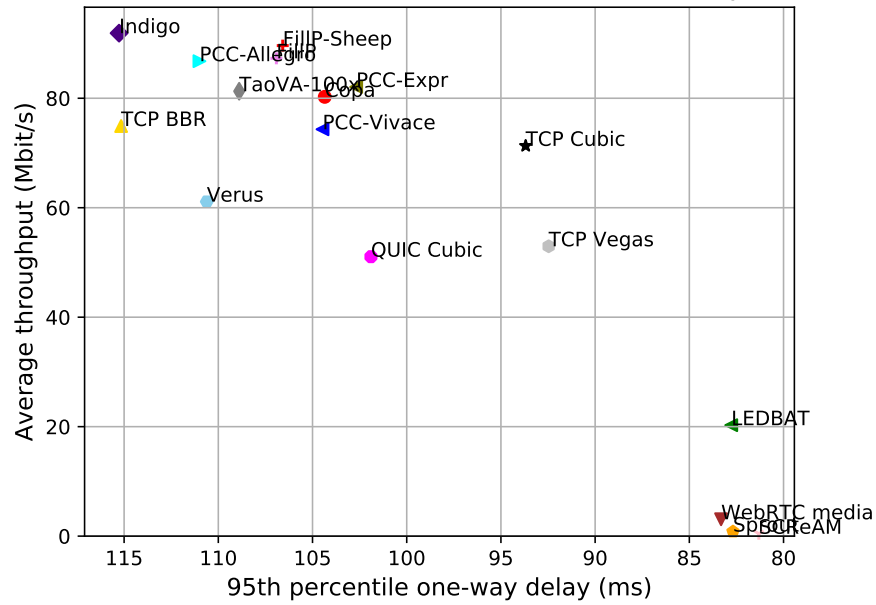
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

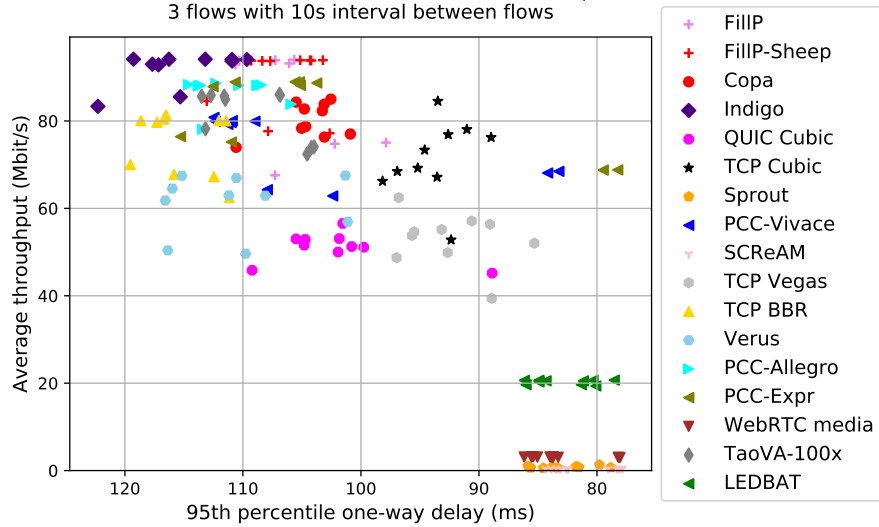
Git summary:

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

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



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



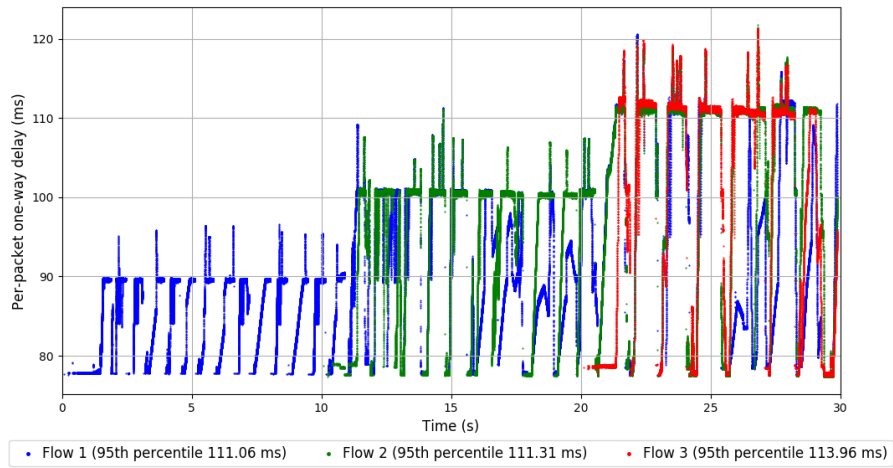
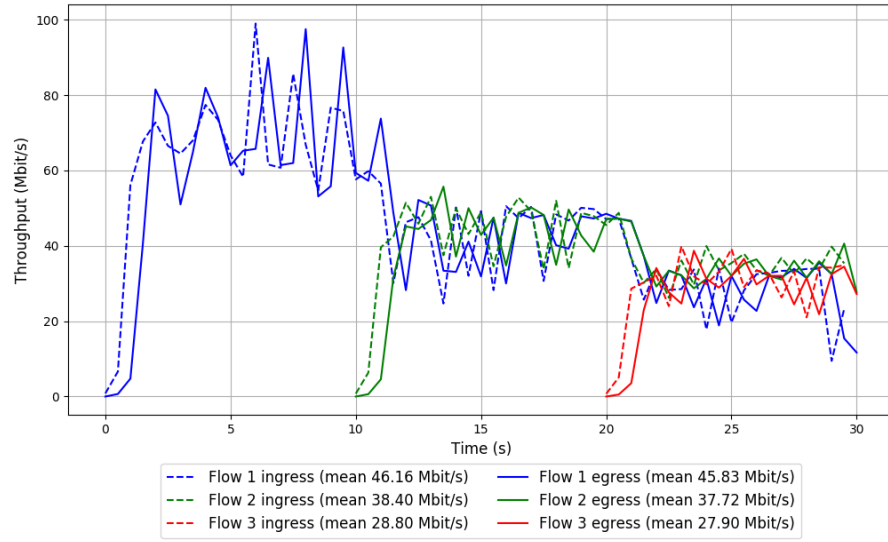
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	44.80	33.11	24.78	112.22	114.64	116.39	4.31	6.33	8.52
Copa	10	50.03	32.58	26.16	99.58	104.25	103.25	2.34	2.60	2.10
TCP Cubic	10	43.55	30.26	23.26	93.12	95.89	104.02	0.43	0.76	2.10
FillP	10	55.32	34.77	27.17	106.06	107.16	107.73	5.50	7.22	8.64
FillP-Sheep	10	55.27	37.64	28.88	104.74	107.42	109.32	4.53	5.10	5.68
Indigo	10	57.20	38.21	28.75	114.26	116.03	108.99	2.87	1.49	2.39
LEDBAT	10	13.07	8.76	4.28	82.83	82.60	82.87	1.09	1.61	3.31
PCC-Allegro	10	54.74	34.73	27.60	107.04	112.65	112.90	6.28	4.31	4.16
PCC-Expr	10	54.19	31.19	21.98	101.48	103.22	103.11	1.88	2.14	3.17
QUIC Cubic	10	28.93	23.01	20.96	97.16	102.57	108.83	0.73	1.30	2.08
SCReAM	10	0.22	0.22	0.22	81.09	80.96	80.59	0.51	0.82	1.57
Sprout	10	0.36	0.39	0.67	82.18	81.93	82.08	0.43	0.70	1.17
TaoVA-100x	10	49.07	35.90	25.48	107.68	109.35	109.61	3.53	5.09	6.70
TCP Vegas	10	30.67	23.95	19.41	90.91	92.81	104.42	0.58	0.99	2.13
Verus	10	33.21	31.34	21.71	106.59	111.11	111.65	3.33	4.41	5.38
PCC-Vivace	10	50.65	26.81	18.04	102.32	106.54	104.64	3.49	3.79	3.70
WebRTC media	10	1.76	0.98	0.36	82.52	83.45	83.34	0.33	0.75	1.88

Run 1: Statistics of TCP BBR

Start at: 2018-07-25 07:40:23
End at: 2018-07-25 07:40:53
Local clock offset: -6.982 ms
Remote clock offset: 11.995 ms

Below is generated by plot.py at 2018-07-25 11:08:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.05 Mbit/s
95th percentile per-packet one-way delay: 111.428 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 45.83 Mbit/s
95th percentile per-packet one-way delay: 111.064 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 37.72 Mbit/s
95th percentile per-packet one-way delay: 111.307 ms
Loss rate: 2.57%
-- Flow 3:
Average throughput: 27.90 Mbit/s
95th percentile per-packet one-way delay: 113.962 ms
Loss rate: 4.72%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-25 08:01:29

End at: 2018-07-25 08:01:59

Local clock offset: -7.17 ms

Remote clock offset: 1.08 ms

Below is generated by plot.py at 2018-07-25 11:08:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 115.826 ms

Loss rate: 12.24%

-- Flow 1:

Average throughput: 43.61 Mbit/s

95th percentile per-packet one-way delay: 107.545 ms

Loss rate: 10.70%

-- Flow 2:

Average throughput: 26.53 Mbit/s

95th percentile per-packet one-way delay: 116.063 ms

Loss rate: 14.59%

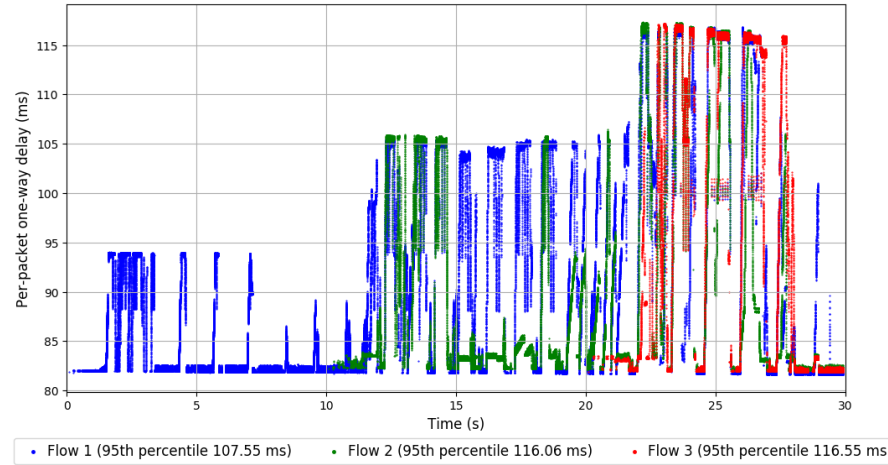
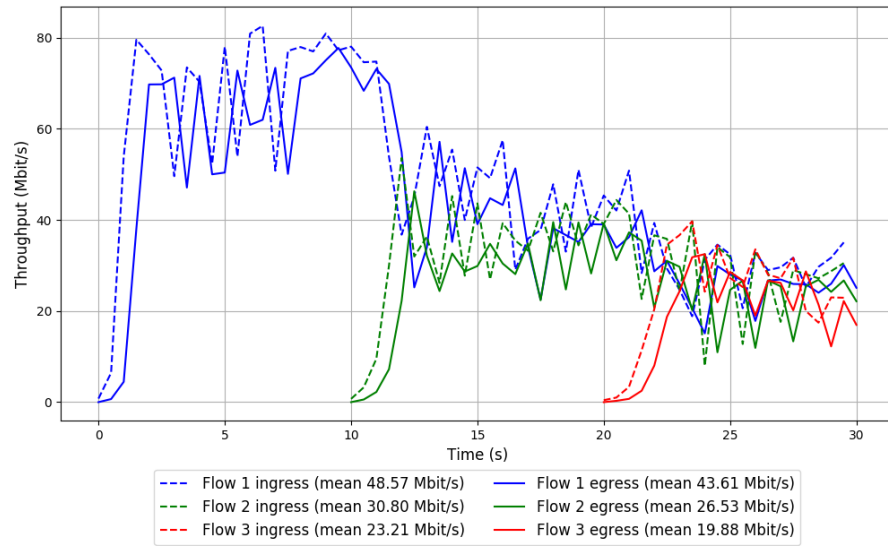
-- Flow 3:

Average throughput: 19.88 Mbit/s

95th percentile per-packet one-way delay: 116.552 ms

Loss rate: 15.77%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-25 08:22:39

End at: 2018-07-25 08:23:09

Local clock offset: -1.452 ms

Remote clock offset: 9.832 ms

Below is generated by plot.py at 2018-07-25 11:08:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.44 Mbit/s

95th percentile per-packet one-way delay: 116.704 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 47.25 Mbit/s

95th percentile per-packet one-way delay: 116.348 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 36.71 Mbit/s

95th percentile per-packet one-way delay: 116.908 ms

Loss rate: 2.21%

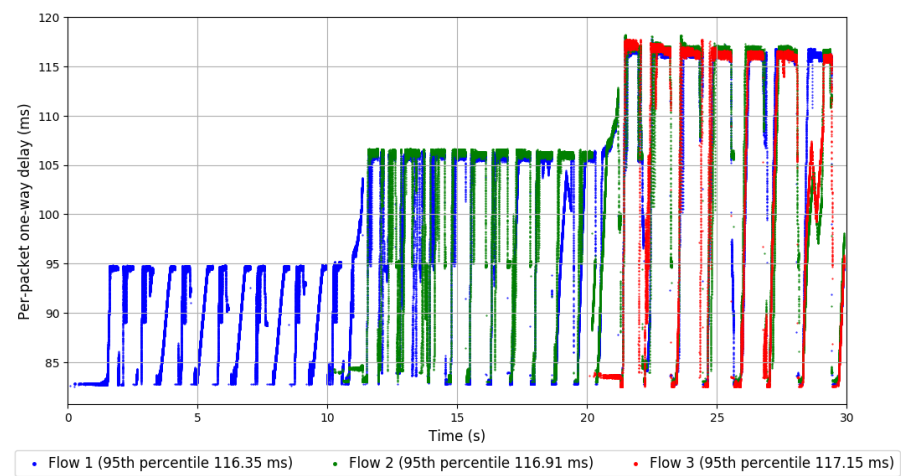
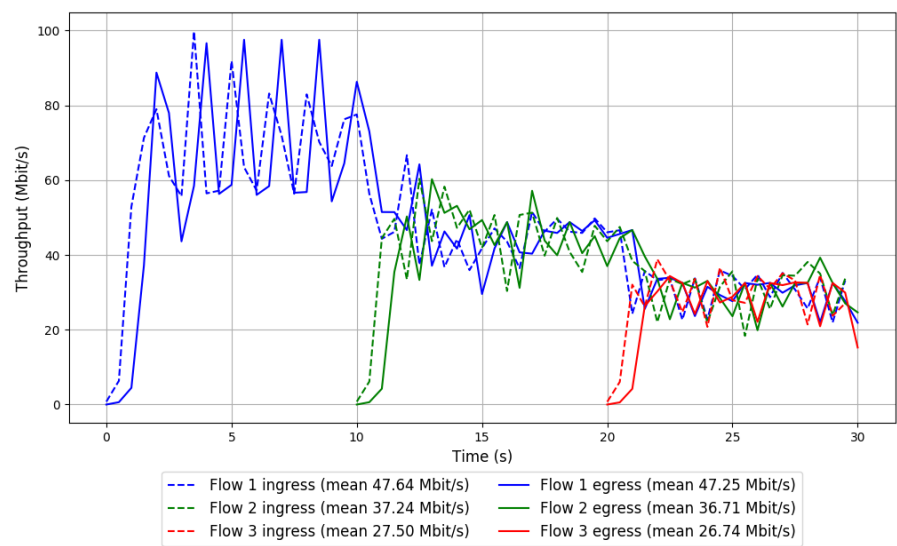
-- Flow 3:

Average throughput: 26.74 Mbit/s

95th percentile per-packet one-way delay: 117.148 ms

Loss rate: 4.34%

Run 3: Report of TCP BBR — Data Link

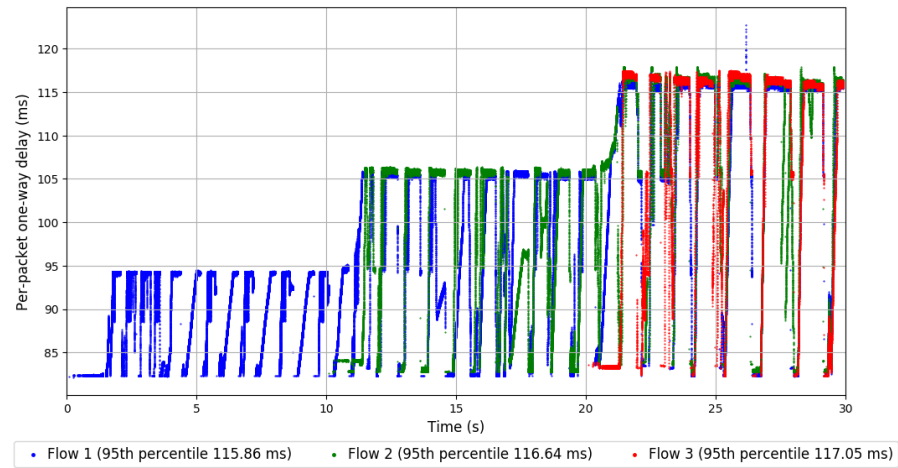
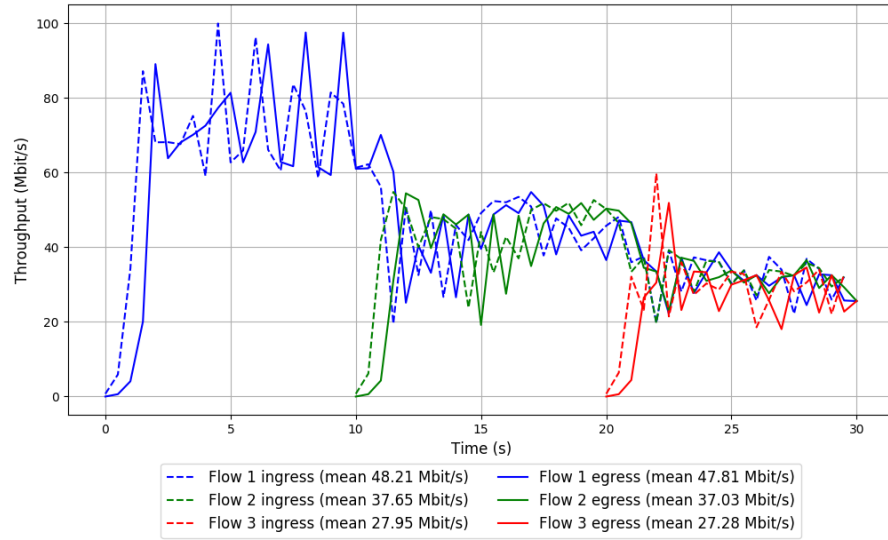


Run 4: Statistics of TCP BBR

Start at: 2018-07-25 08:43:54
End at: 2018-07-25 08:44:24
Local clock offset: -5.777 ms
Remote clock offset: 11.813 ms

Below is generated by plot.py at 2018-07-25 11:08:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.37 Mbit/s
95th percentile per-packet one-way delay: 116.510 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 47.81 Mbit/s
95th percentile per-packet one-way delay: 115.855 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 37.03 Mbit/s
95th percentile per-packet one-way delay: 116.640 ms
Loss rate: 2.45%
-- Flow 3:
Average throughput: 27.28 Mbit/s
95th percentile per-packet one-way delay: 117.054 ms
Loss rate: 4.12%

Run 4: Report of TCP BBR — Data Link

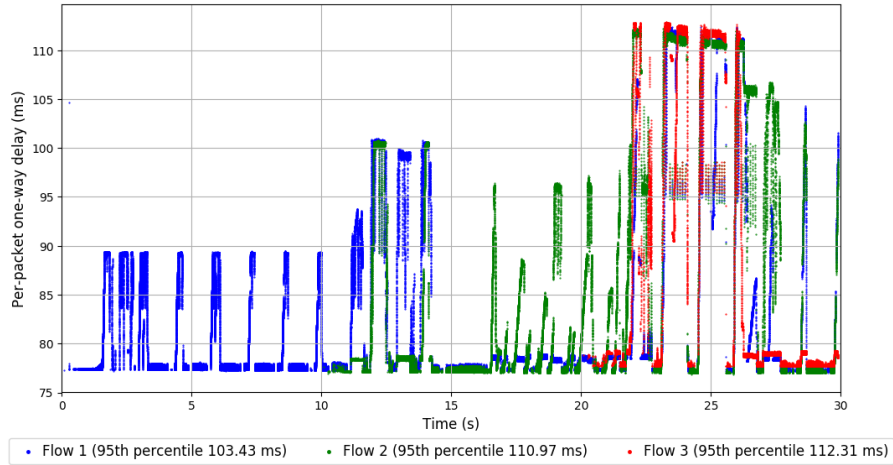
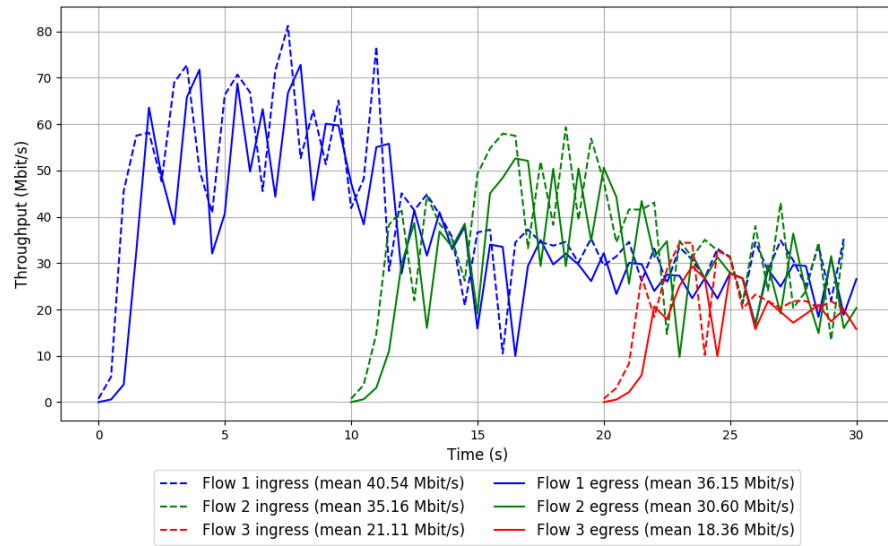


Run 5: Statistics of TCP BBR

Start at: 2018-07-25 09:05:12
End at: 2018-07-25 09:05:42
Local clock offset: -5.786 ms
Remote clock offset: 16.529 ms

Below is generated by plot.py at 2018-07-25 11:08:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.50 Mbit/s
95th percentile per-packet one-way delay: 111.148 ms
Loss rate: 12.42%
-- Flow 1:
Average throughput: 36.15 Mbit/s
95th percentile per-packet one-way delay: 103.426 ms
Loss rate: 11.33%
-- Flow 2:
Average throughput: 30.60 Mbit/s
95th percentile per-packet one-way delay: 110.971 ms
Loss rate: 13.70%
-- Flow 3:
Average throughput: 18.36 Mbit/s
95th percentile per-packet one-way delay: 112.312 ms
Loss rate: 14.48%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-25 09:26:31

End at: 2018-07-25 09:27:01

Local clock offset: -2.172 ms

Remote clock offset: 9.982 ms

Below is generated by plot.py at 2018-07-25 11:08:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.09 Mbit/s

95th percentile per-packet one-way delay: 112.041 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 48.07 Mbit/s

95th percentile per-packet one-way delay: 112.404 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 34.75 Mbit/s

95th percentile per-packet one-way delay: 110.148 ms

Loss rate: 2.39%

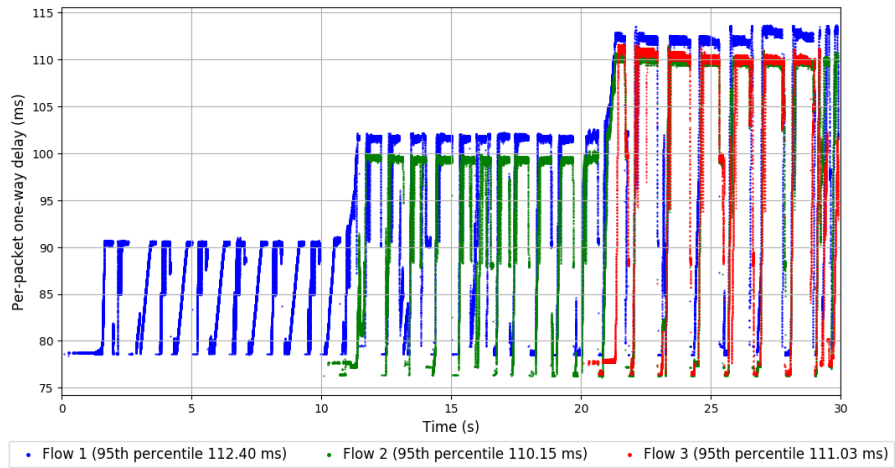
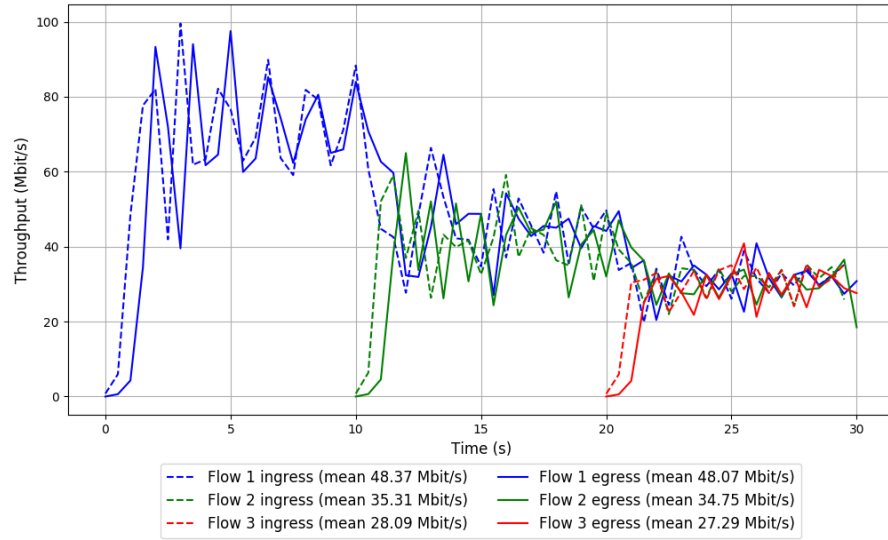
-- Flow 3:

Average throughput: 27.29 Mbit/s

95th percentile per-packet one-way delay: 111.030 ms

Loss rate: 4.46%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-25 09:47:50

End at: 2018-07-25 09:48:20

Local clock offset: -6.563 ms

Remote clock offset: 1.344 ms

Below is generated by plot.py at 2018-07-25 11:08:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.70 Mbit/s

95th percentile per-packet one-way delay: 117.285 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 47.52 Mbit/s

95th percentile per-packet one-way delay: 117.233 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 115.698 ms

Loss rate: 2.52%

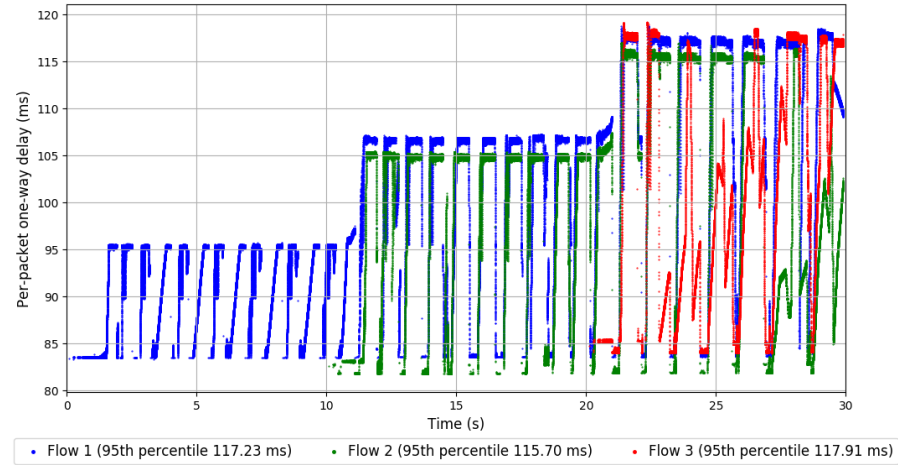
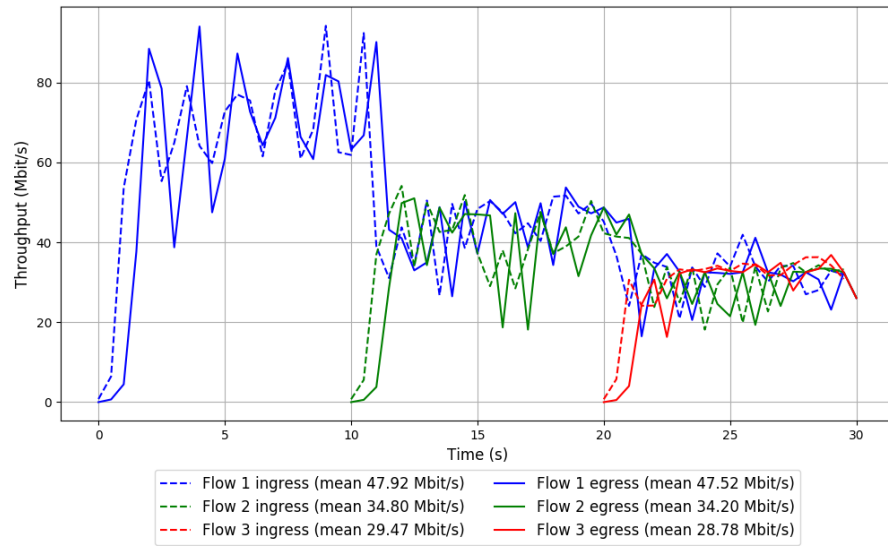
-- Flow 3:

Average throughput: 28.78 Mbit/s

95th percentile per-packet one-way delay: 117.905 ms

Loss rate: 3.95%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-25 10:09:09

End at: 2018-07-25 10:09:39

Local clock offset: -4.431 ms

Remote clock offset: 2.363 ms

Below is generated by plot.py at 2018-07-25 11:08:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.10 Mbit/s

95th percentile per-packet one-way delay: 118.642 ms

Loss rate: 1.94%

-- Flow 1:

Average throughput: 47.63 Mbit/s

95th percentile per-packet one-way delay: 119.026 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 35.34 Mbit/s

95th percentile per-packet one-way delay: 116.781 ms

Loss rate: 2.39%

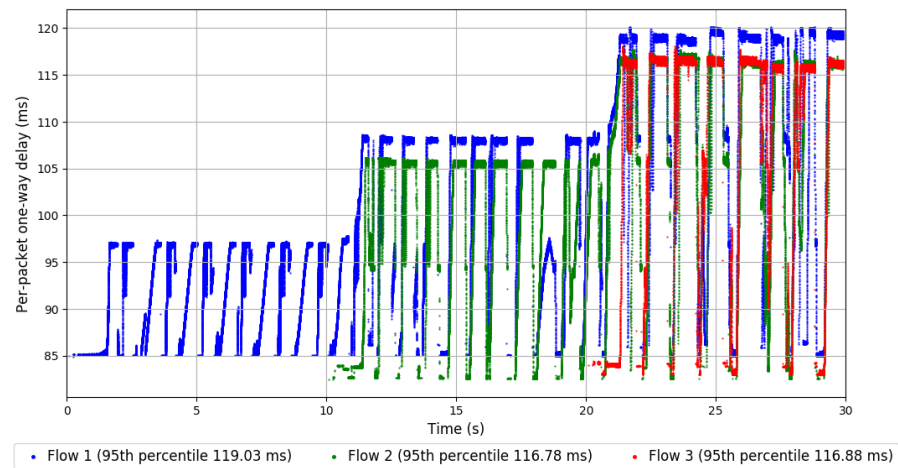
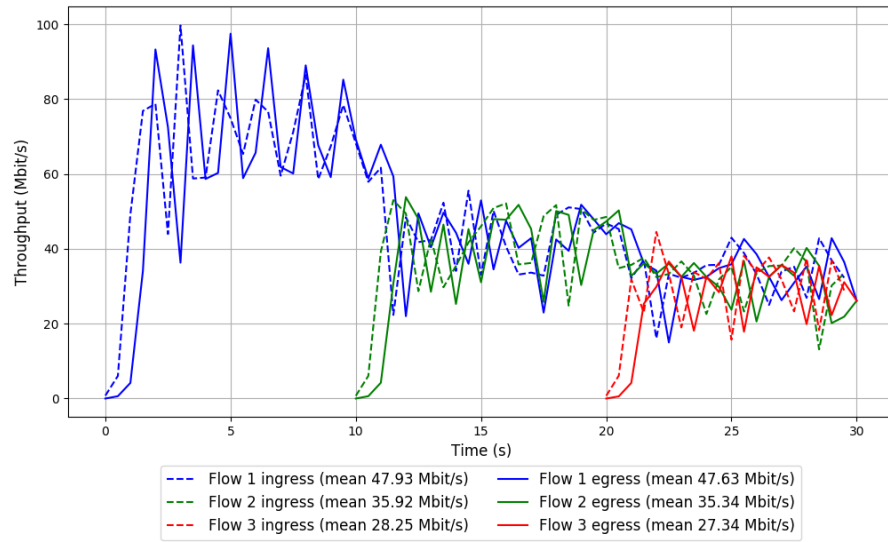
-- Flow 3:

Average throughput: 27.34 Mbit/s

95th percentile per-packet one-way delay: 116.878 ms

Loss rate: 4.77%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-25 10:30:17

End at: 2018-07-25 10:30:47

Local clock offset: -1.8 ms

Remote clock offset: 6.152 ms

Below is generated by plot.py at 2018-07-25 11:09:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.26 Mbit/s

95th percentile per-packet one-way delay: 112.456 ms

Loss rate: 12.58%

-- Flow 1:

Average throughput: 41.44 Mbit/s

95th percentile per-packet one-way delay: 103.764 ms

Loss rate: 10.72%

-- Flow 2:

Average throughput: 28.92 Mbit/s

95th percentile per-packet one-way delay: 112.554 ms

Loss rate: 14.81%

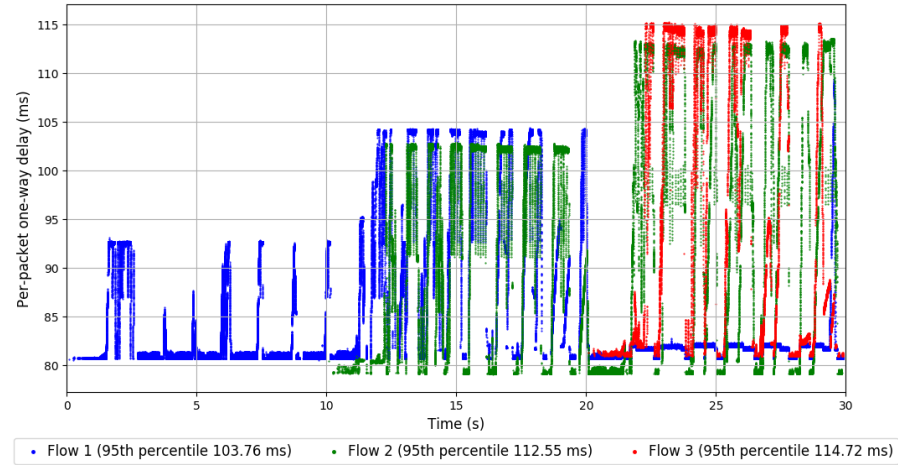
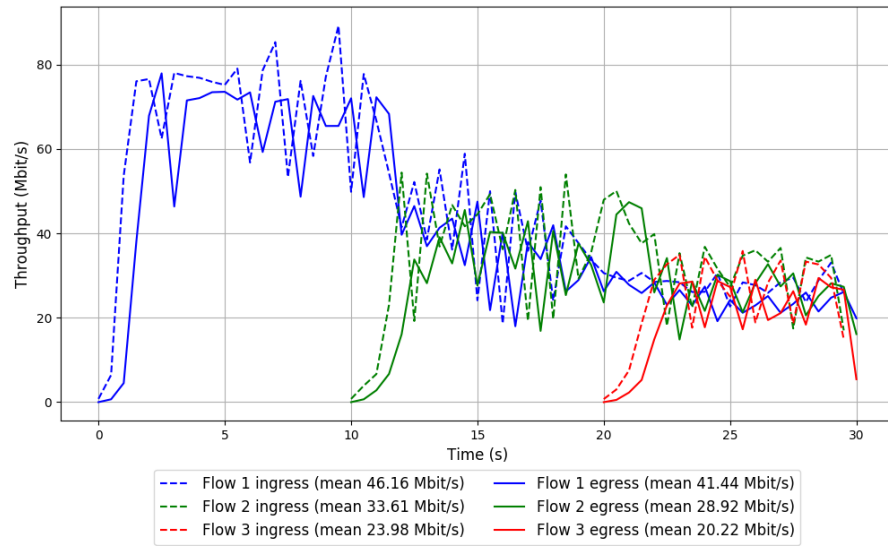
-- Flow 3:

Average throughput: 20.22 Mbit/s

95th percentile per-packet one-way delay: 114.721 ms

Loss rate: 17.05%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-25 10:51:39

End at: 2018-07-25 10:52:09

Local clock offset: -1.433 ms

Remote clock offset: 3.258 ms

Below is generated by plot.py at 2018-07-25 11:09:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.03 Mbit/s

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

Loss rate: 4.62%

-- Flow 1:

Average throughput: 42.66 Mbit/s

95th percentile per-packet one-way delay: 115.516 ms

Loss rate: 2.69%

-- Flow 2:

Average throughput: 29.33 Mbit/s

95th percentile per-packet one-way delay: 119.300 ms

Loss rate: 5.72%

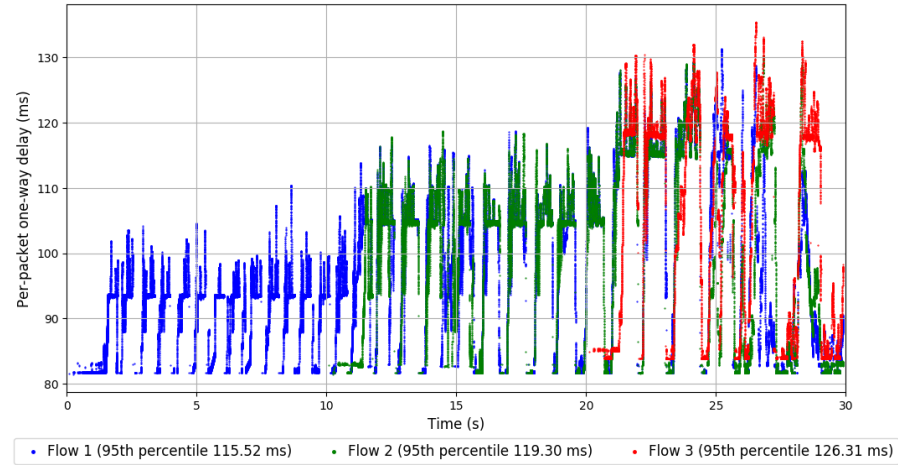
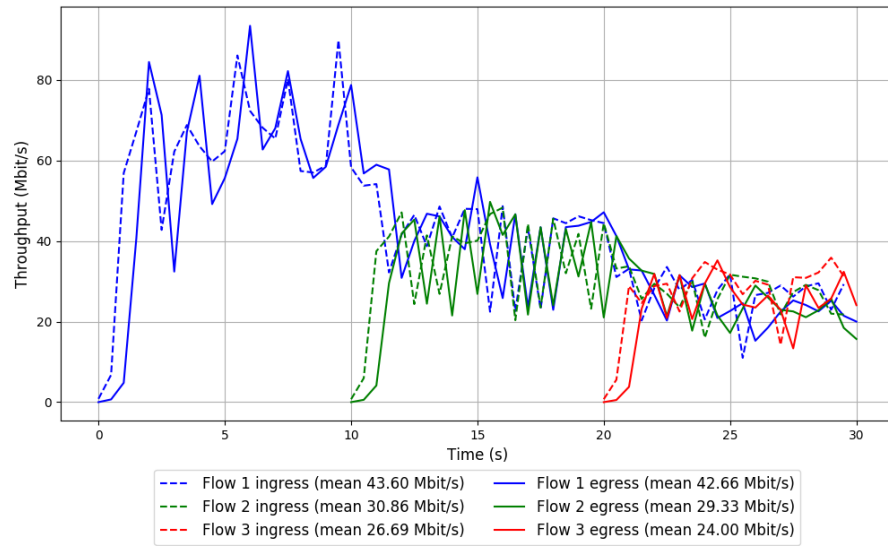
-- Flow 3:

Average throughput: 24.00 Mbit/s

95th percentile per-packet one-way delay: 126.313 ms

Loss rate: 11.56%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-25 07:36:38

End at: 2018-07-25 07:37:08

Local clock offset: -7.023 ms

Remote clock offset: 9.882 ms

Below is generated by plot.py at 2018-07-25 11:10:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.31 Mbit/s

95th percentile per-packet one-way delay: 103.097 ms

Loss rate: 8.45%

-- Flow 1:

Average throughput: 48.85 Mbit/s

95th percentile per-packet one-way delay: 102.106 ms

Loss rate: 10.50%

-- Flow 2:

Average throughput: 29.92 Mbit/s

95th percentile per-packet one-way delay: 105.680 ms

Loss rate: 5.55%

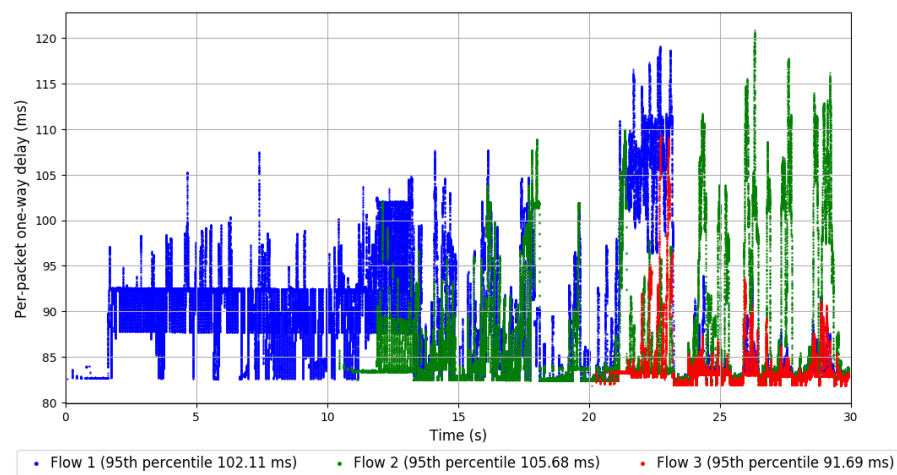
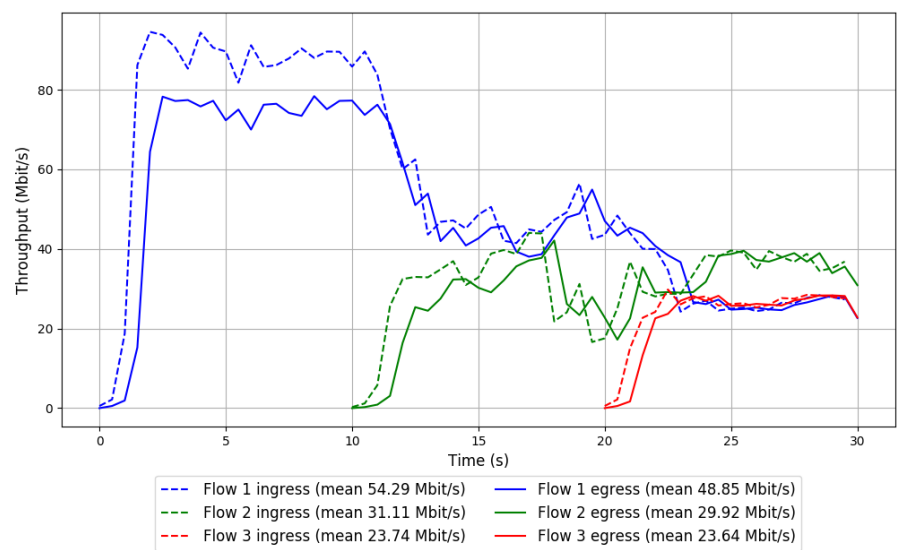
-- Flow 3:

Average throughput: 23.64 Mbit/s

95th percentile per-packet one-way delay: 91.685 ms

Loss rate: 2.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-25 07:57:44

End at: 2018-07-25 07:58:14

Local clock offset: -7.126 ms

Remote clock offset: 6.5 ms

Below is generated by plot.py at 2018-07-25 11:10:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.33 Mbit/s

95th percentile per-packet one-way delay: 103.274 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 48.42 Mbit/s

95th percentile per-packet one-way delay: 91.335 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 37.95 Mbit/s

95th percentile per-packet one-way delay: 106.000 ms

Loss rate: 0.70%

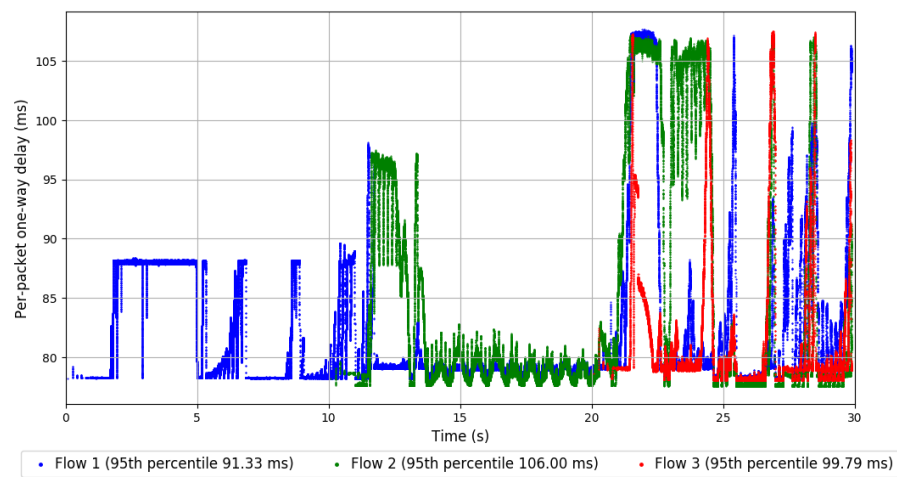
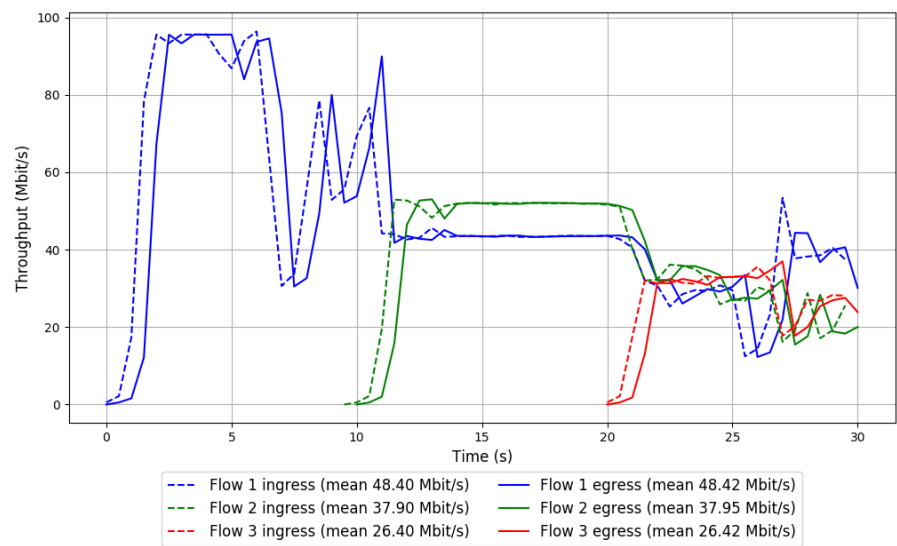
-- Flow 3:

Average throughput: 26.42 Mbit/s

95th percentile per-packet one-way delay: 99.787 ms

Loss rate: 1.56%

Run 2: Report of Copa — Data Link

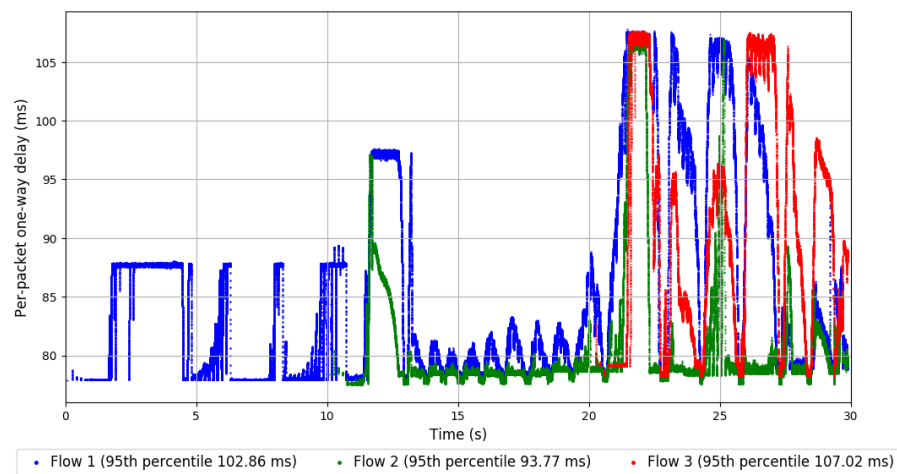
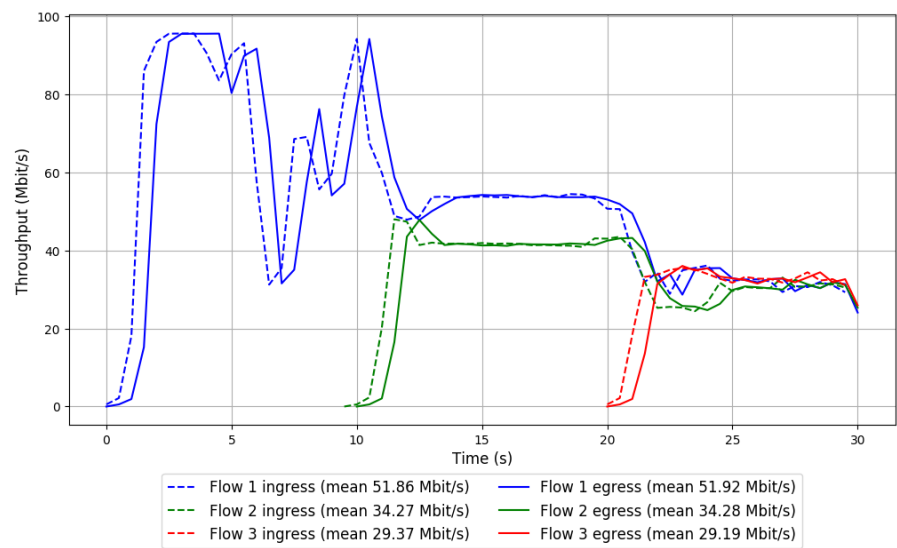


Run 3: Statistics of Copa

Start at: 2018-07-25 08:18:53
End at: 2018-07-25 08:19:23
Local clock offset: -1.939 ms
Remote clock offset: 13.499 ms

Below is generated by plot.py at 2018-07-25 11:10:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.31 Mbit/s
95th percentile per-packet one-way delay: 105.490 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 51.92 Mbit/s
95th percentile per-packet one-way delay: 102.862 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 34.28 Mbit/s
95th percentile per-packet one-way delay: 93.767 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 29.19 Mbit/s
95th percentile per-packet one-way delay: 107.021 ms
Loss rate: 2.21%

Run 3: Report of Copa — Data Link

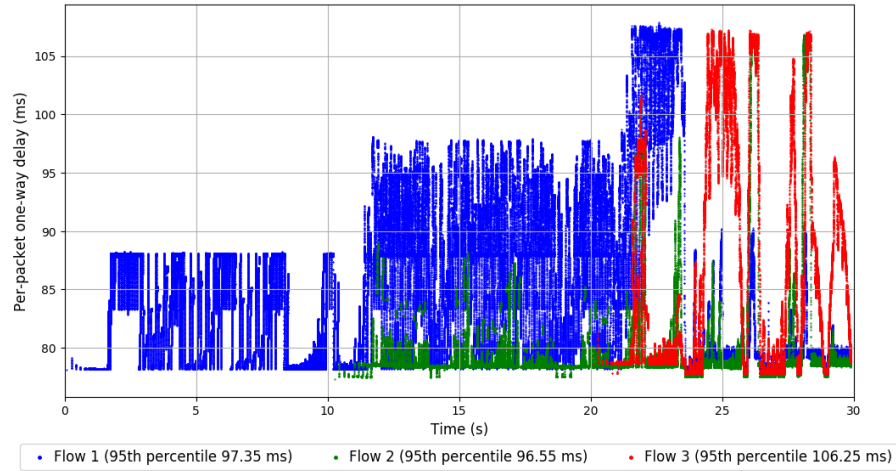
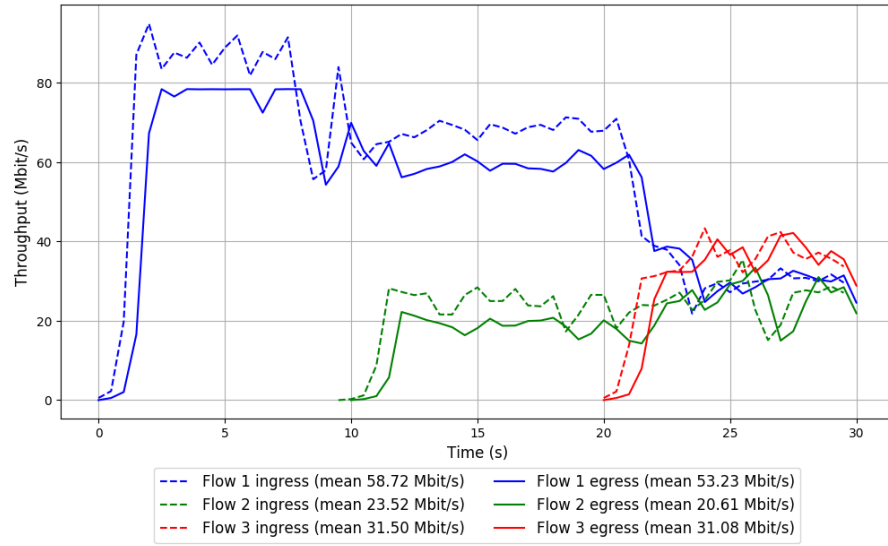


Run 4: Statistics of Copa

Start at: 2018-07-25 08:40:00
End at: 2018-07-25 08:40:30
Local clock offset: -4.825 ms
Remote clock offset: 17.262 ms

Below is generated by plot.py at 2018-07-25 11:10:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.01 Mbit/s
95th percentile per-packet one-way delay: 100.899 ms
Loss rate: 9.74%
-- Flow 1:
Average throughput: 53.23 Mbit/s
95th percentile per-packet one-way delay: 97.354 ms
Loss rate: 9.83%
-- Flow 2:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 96.552 ms
Loss rate: 13.95%
-- Flow 3:
Average throughput: 31.08 Mbit/s
95th percentile per-packet one-way delay: 106.252 ms
Loss rate: 2.95%

Run 4: Report of Copa — Data Link

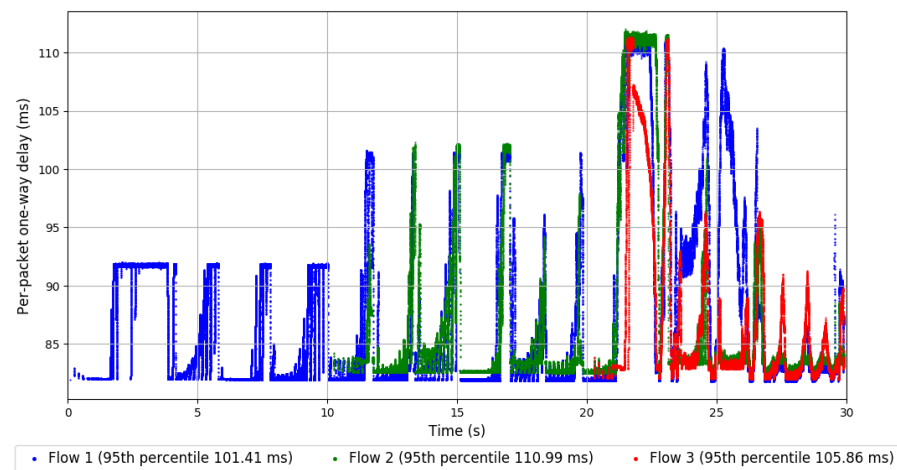
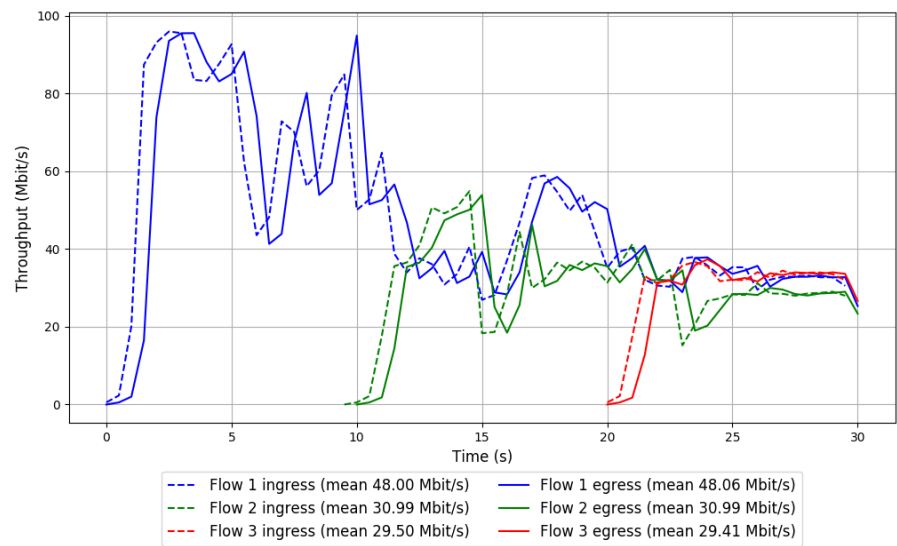


Run 5: Statistics of Copa

Start at: 2018-07-25 09:01:27
End at: 2018-07-25 09:01:57
Local clock offset: -7.571 ms
Remote clock offset: 11.466 ms

Below is generated by plot.py at 2018-07-25 11:10:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.34 Mbit/s
95th percentile per-packet one-way delay: 105.026 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 48.06 Mbit/s
95th percentile per-packet one-way delay: 101.405 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 30.99 Mbit/s
95th percentile per-packet one-way delay: 110.989 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 29.41 Mbit/s
95th percentile per-packet one-way delay: 105.857 ms
Loss rate: 1.89%

Run 5: Report of Copa — Data Link

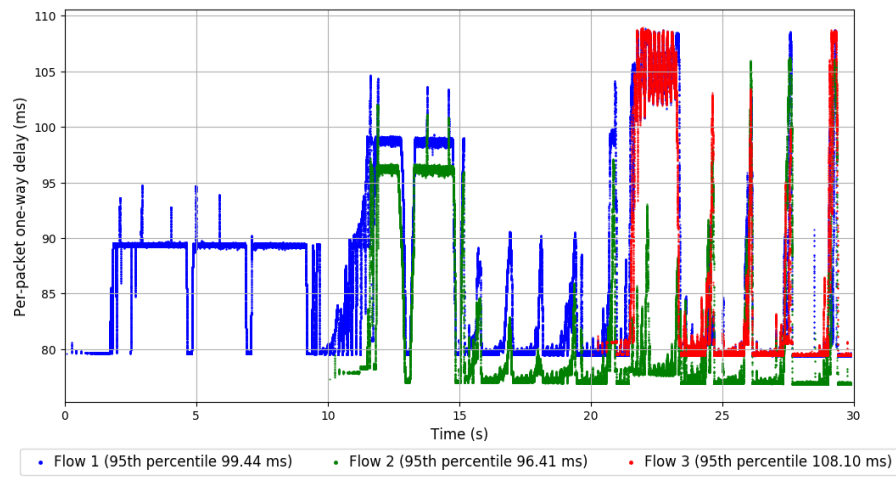
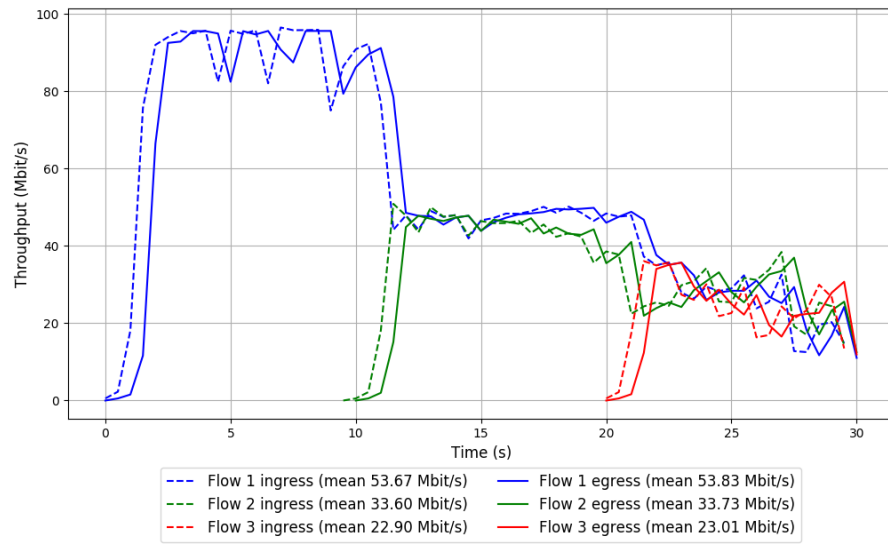


Run 6: Statistics of Copa

Start at: 2018-07-25 09:22:43
End at: 2018-07-25 09:23:13
Local clock offset: -2.456 ms
Remote clock offset: 10.289 ms

```
# Below is generated by plot.py at 2018-07-25 11:10:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.82 Mbit/s
95th percentile per-packet one-way delay: 103.115 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 53.83 Mbit/s
95th percentile per-packet one-way delay: 99.443 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 33.73 Mbit/s
95th percentile per-packet one-way delay: 96.414 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 23.01 Mbit/s
95th percentile per-packet one-way delay: 108.101 ms
Loss rate: 1.13%
```


Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-25 09:44:04

End at: 2018-07-25 09:44:34

Local clock offset: -6.032 ms

Remote clock offset: 6.65 ms

Below is generated by plot.py at 2018-07-25 11:11:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.74 Mbit/s

95th percentile per-packet one-way delay: 104.795 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 49.32 Mbit/s

95th percentile per-packet one-way delay: 98.645 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 34.90 Mbit/s

95th percentile per-packet one-way delay: 100.722 ms

Loss rate: 0.72%

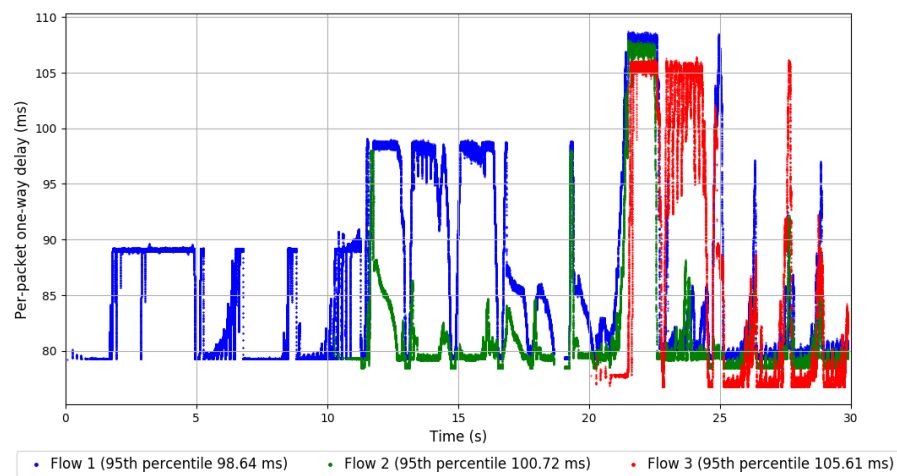
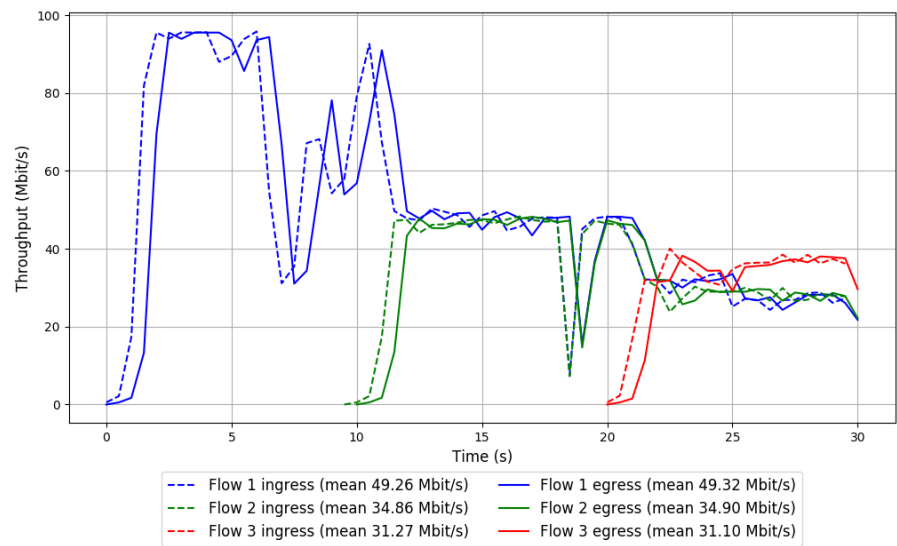
-- Flow 3:

Average throughput: 31.10 Mbit/s

95th percentile per-packet one-way delay: 105.615 ms

Loss rate: 2.16%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-25 10:05:22

End at: 2018-07-25 10:05:52

Local clock offset: -5.71 ms

Remote clock offset: 3.391 ms

Below is generated by plot.py at 2018-07-25 11:11:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.99 Mbit/s

95th percentile per-packet one-way delay: 102.549 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 49.40 Mbit/s

95th percentile per-packet one-way delay: 96.699 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 40.96 Mbit/s

95th percentile per-packet one-way delay: 111.208 ms

Loss rate: 1.10%

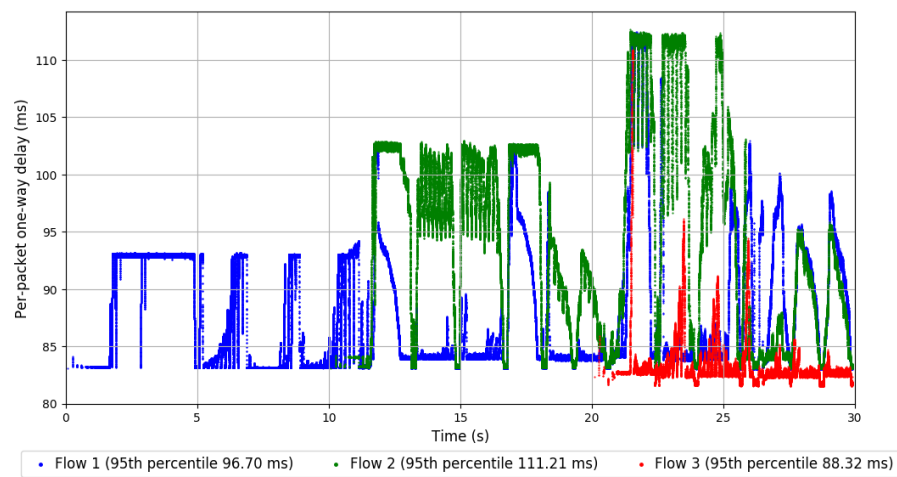
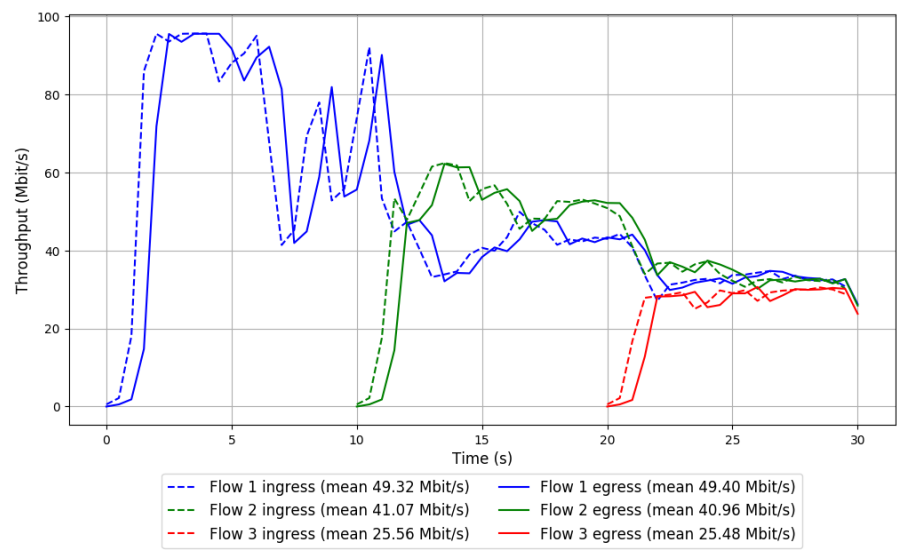
-- Flow 3:

Average throughput: 25.48 Mbit/s

95th percentile per-packet one-way delay: 88.322 ms

Loss rate: 1.93%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-25 10:26:32

End at: 2018-07-25 10:27:02

Local clock offset: -2.054 ms

Remote clock offset: 2.353 ms

Below is generated by plot.py at 2018-07-25 11:11:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.97 Mbit/s

95th percentile per-packet one-way delay: 110.578 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 42.73 Mbit/s

95th percentile per-packet one-way delay: 102.290 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 35.27 Mbit/s

95th percentile per-packet one-way delay: 113.540 ms

Loss rate: 0.82%

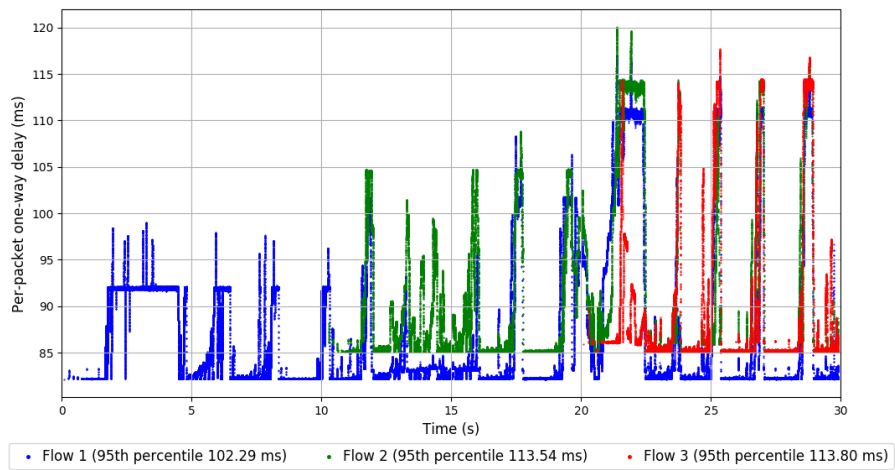
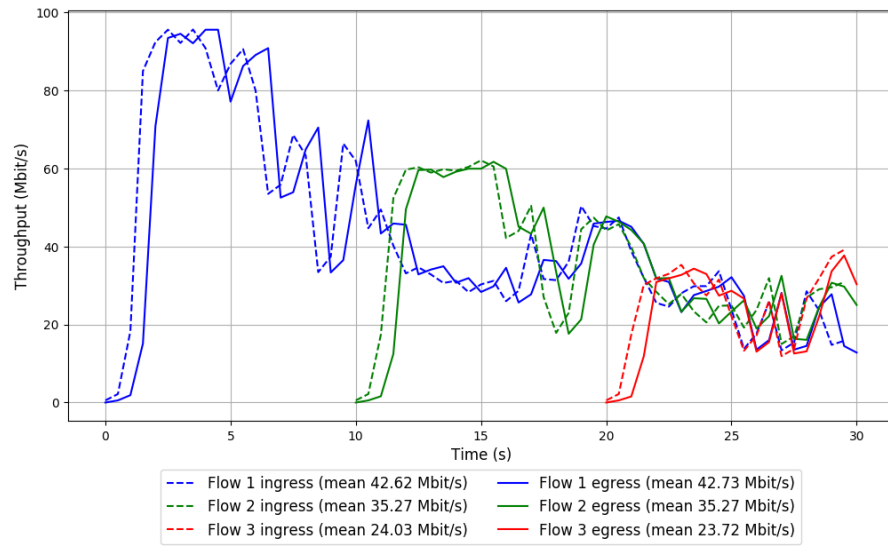
-- Flow 3:

Average throughput: 23.72 Mbit/s

95th percentile per-packet one-way delay: 113.800 ms

Loss rate: 2.93%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-25 10:47:54

End at: 2018-07-25 10:48:24

Local clock offset: -1.525 ms

Remote clock offset: 2.253 ms

Below is generated by plot.py at 2018-07-25 11:11:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.75 Mbit/s

95th percentile per-packet one-way delay: 104.678 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 54.55 Mbit/s

95th percentile per-packet one-way delay: 103.630 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 27.23 Mbit/s

95th percentile per-packet one-way delay: 107.585 ms

Loss rate: 1.16%

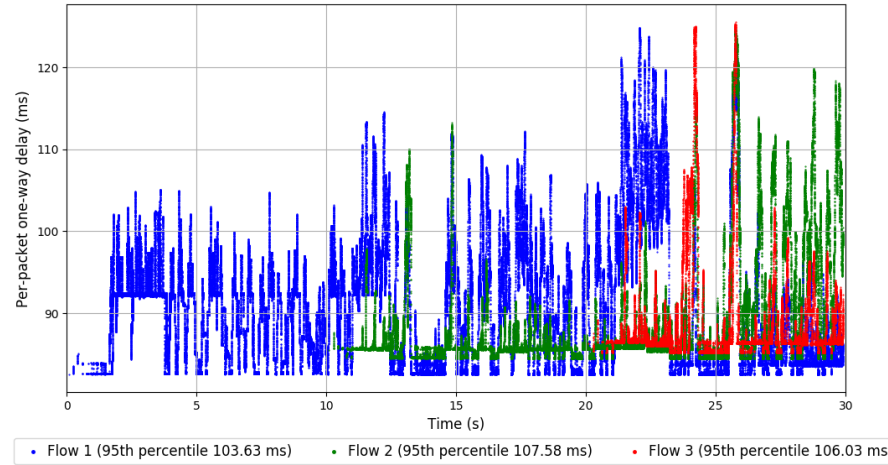
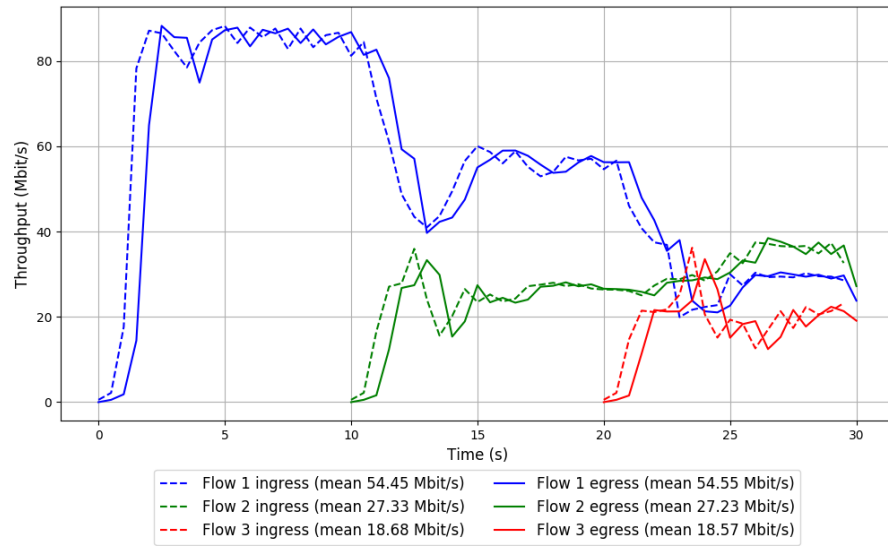
-- Flow 3:

Average throughput: 18.57 Mbit/s

95th percentile per-packet one-way delay: 106.025 ms

Loss rate: 2.24%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-25 07:52:51

End at: 2018-07-25 07:53:21

Local clock offset: -7.122 ms

Remote clock offset: 2.586 ms

Below is generated by plot.py at 2018-07-25 11:11:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.80 Mbit/s

95th percentile per-packet one-way delay: 92.360 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 27.86 Mbit/s

95th percentile per-packet one-way delay: 92.330 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 22.83 Mbit/s

95th percentile per-packet one-way delay: 86.185 ms

Loss rate: 0.93%

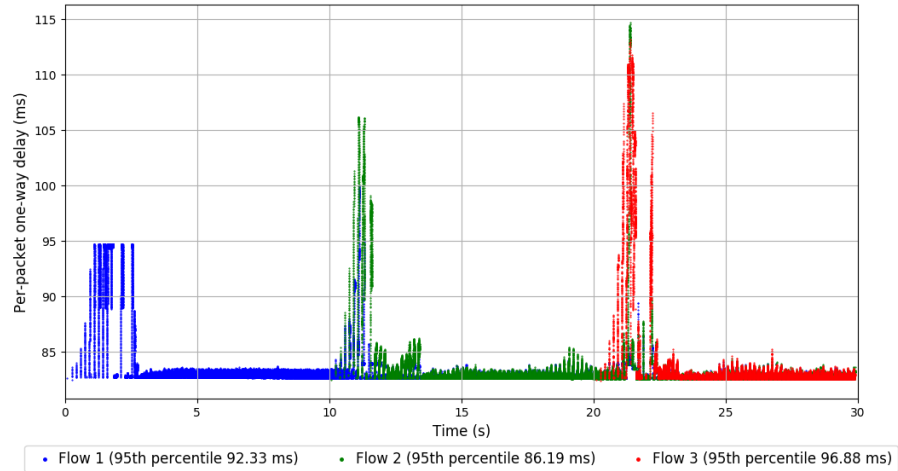
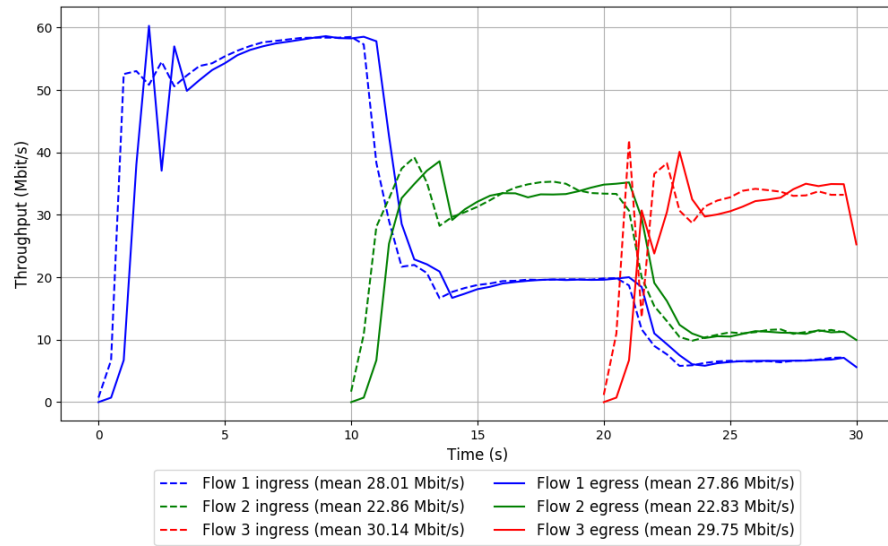
-- Flow 3:

Average throughput: 29.75 Mbit/s

95th percentile per-packet one-way delay: 96.876 ms

Loss rate: 2.91%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-25 08:13:57

End at: 2018-07-25 08:14:27

Local clock offset: -2.684 ms

Remote clock offset: 6.803 ms

Below is generated by plot.py at 2018-07-25 11:11:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.54 Mbit/s

95th percentile per-packet one-way delay: 93.483 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 52.38 Mbit/s

95th percentile per-packet one-way delay: 93.170 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 38.07 Mbit/s

95th percentile per-packet one-way delay: 94.411 ms

Loss rate: 0.93%

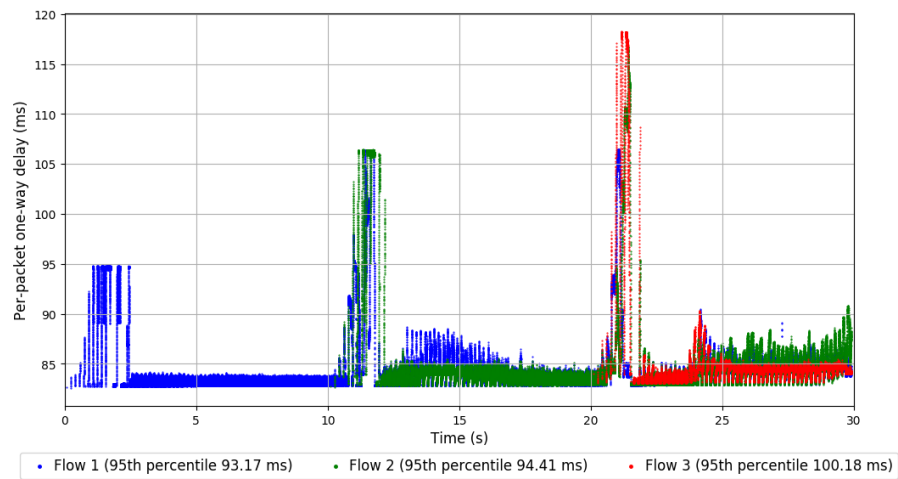
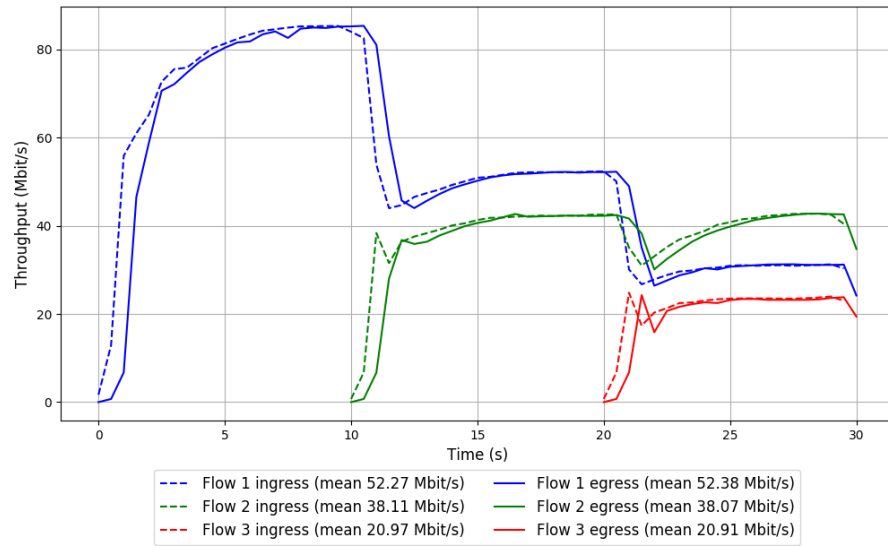
-- Flow 3:

Average throughput: 20.91 Mbit/s

95th percentile per-packet one-way delay: 100.177 ms

Loss rate: 1.91%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-25 08:35:06

End at: 2018-07-25 08:35:36

Local clock offset: -3.021 ms

Remote clock offset: 16.86 ms

Below is generated by plot.py at 2018-07-25 11:11:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.24 Mbit/s

95th percentile per-packet one-way delay: 88.973 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 47.95 Mbit/s

95th percentile per-packet one-way delay: 87.572 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 96.465 ms

Loss rate: 0.68%

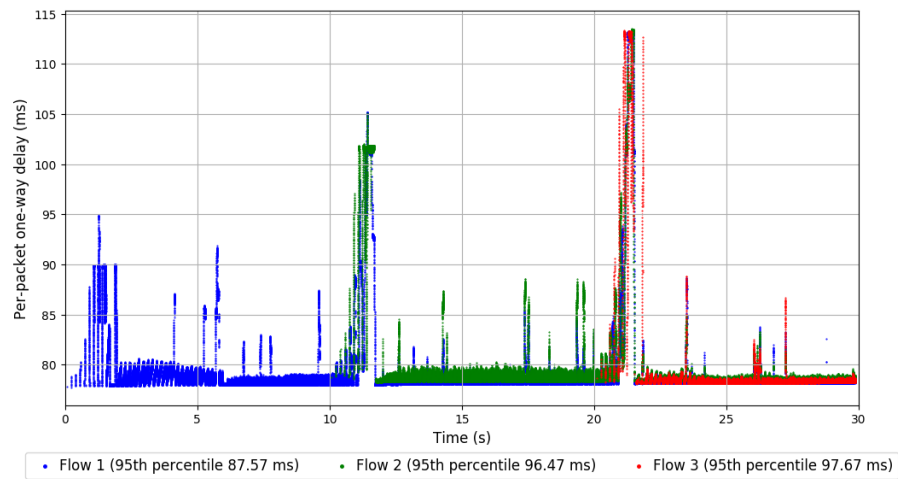
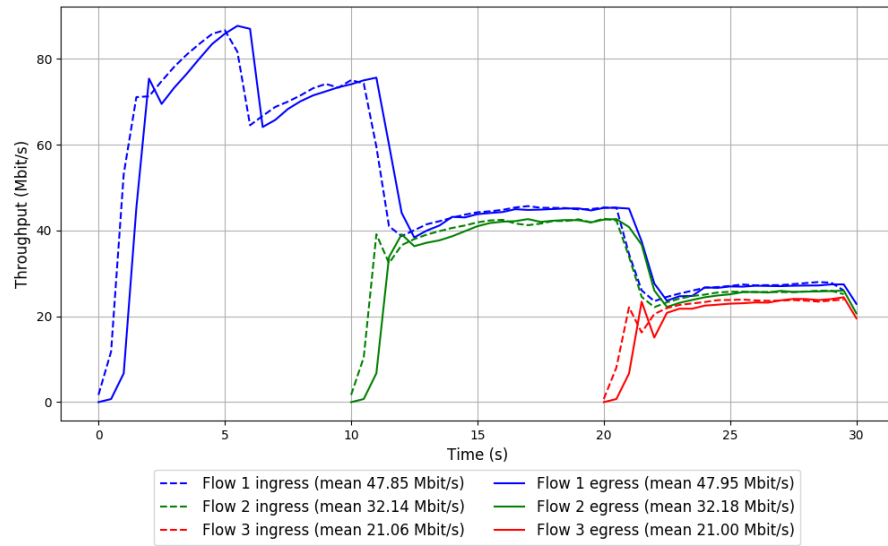
-- Flow 3:

Average throughput: 21.00 Mbit/s

95th percentile per-packet one-way delay: 97.670 ms

Loss rate: 1.93%

Run 3: Report of TCP Cubic — Data Link

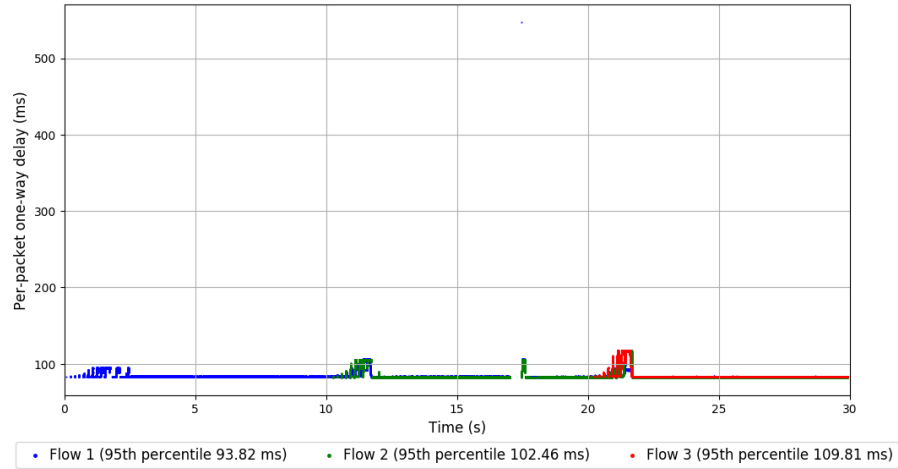
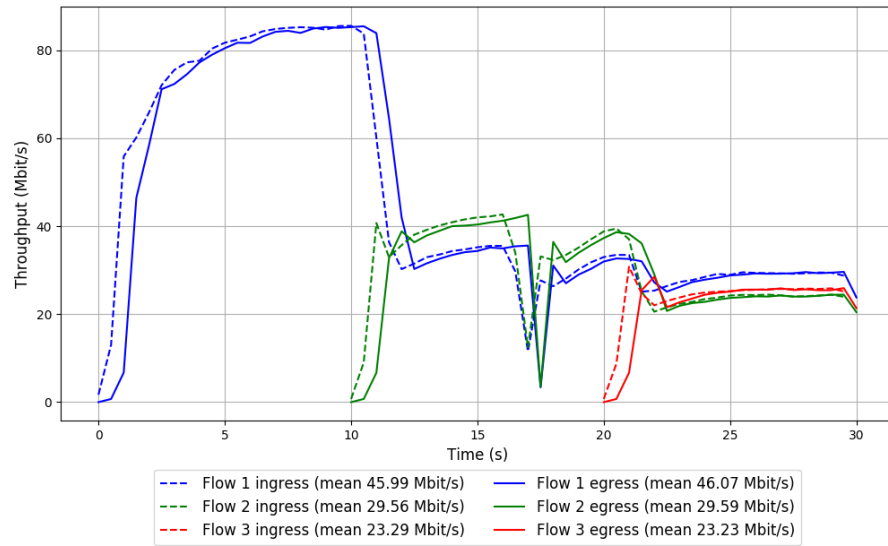


Run 4: Statistics of TCP Cubic

Start at: 2018-07-25 08:56:32
End at: 2018-07-25 08:57:02
Local clock offset: -7.257 ms
Remote clock offset: 11.373 ms

Below is generated by plot.py at 2018-07-25 11:11:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.37 Mbit/s
95th percentile per-packet one-way delay: 94.600 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 46.07 Mbit/s
95th percentile per-packet one-way delay: 93.822 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 29.59 Mbit/s
95th percentile per-packet one-way delay: 102.460 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 109.811 ms
Loss rate: 1.89%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-25 09:17:49

End at: 2018-07-25 09:18:19

Local clock offset: -3.003 ms

Remote clock offset: 12.1 ms

Below is generated by plot.py at 2018-07-25 11:11:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.89 Mbit/s

95th percentile per-packet one-way delay: 92.606 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 48.16 Mbit/s

95th percentile per-packet one-way delay: 92.550 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 32.11 Mbit/s

95th percentile per-packet one-way delay: 93.296 ms

Loss rate: 0.68%

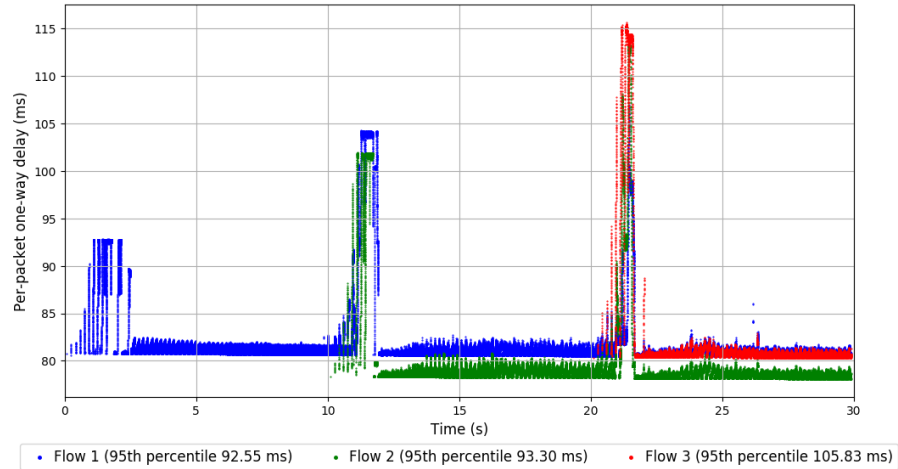
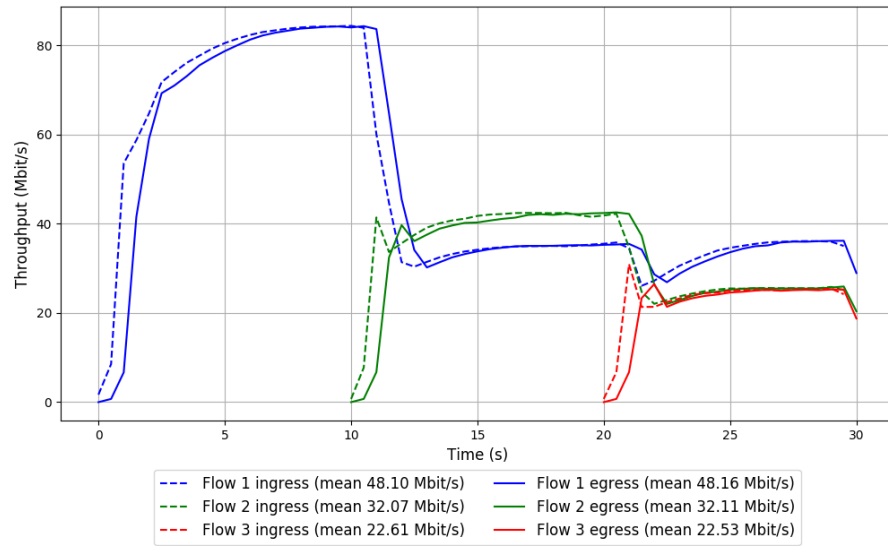
-- Flow 3:

Average throughput: 22.53 Mbit/s

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

Loss rate: 2.02%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-25 09:39:10

End at: 2018-07-25 09:39:40

Local clock offset: -4.996 ms

Remote clock offset: 5.24 ms

Below is generated by plot.py at 2018-07-25 11:12:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.07 Mbit/s

95th percentile per-packet one-way delay: 91.025 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 90.233 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 32.33 Mbit/s

95th percentile per-packet one-way delay: 93.353 ms

Loss rate: 0.67%

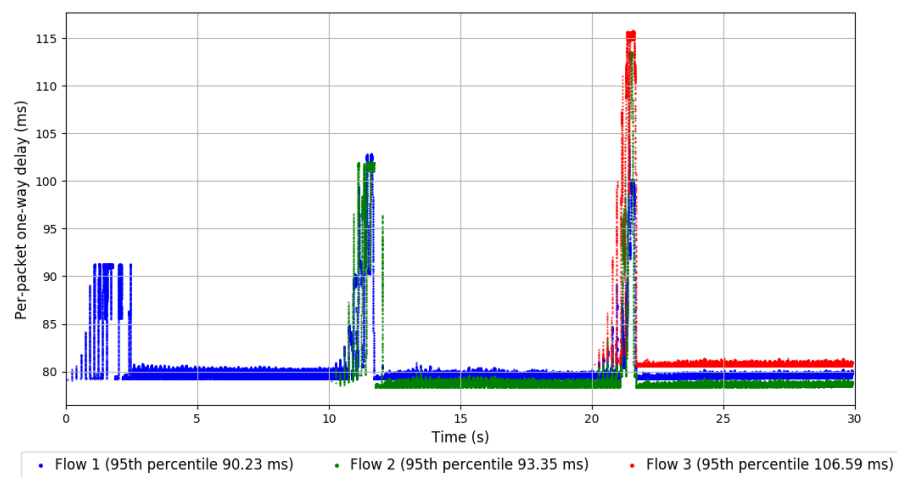
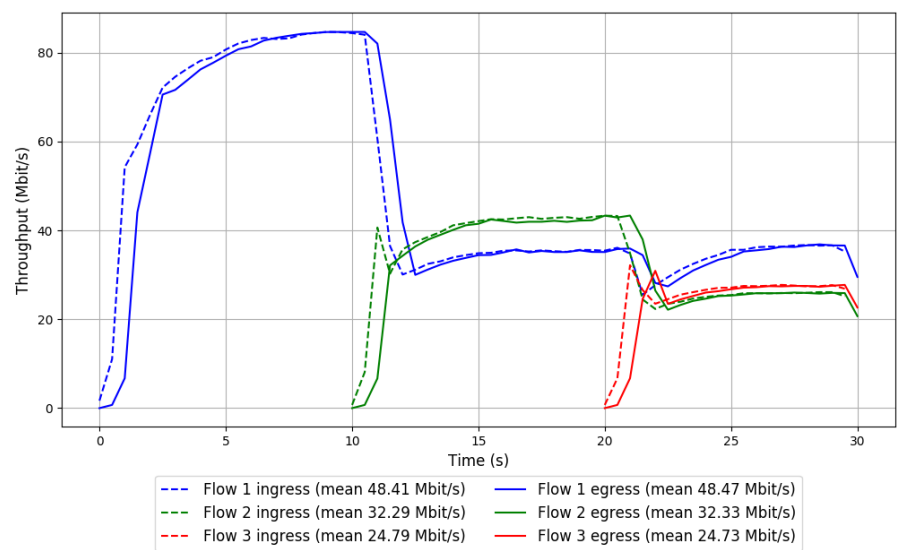
-- Flow 3:

Average throughput: 24.73 Mbit/s

95th percentile per-packet one-way delay: 106.595 ms

Loss rate: 1.89%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-25 10:00:18

End at: 2018-07-25 10:00:49

Local clock offset: -7.504 ms

Remote clock offset: 3.223 ms

Below is generated by plot.py at 2018-07-25 11:12:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.16 Mbit/s

95th percentile per-packet one-way delay: 93.545 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 41.46 Mbit/s

95th percentile per-packet one-way delay: 93.519 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 25.24 Mbit/s

95th percentile per-packet one-way delay: 93.505 ms

Loss rate: 0.88%

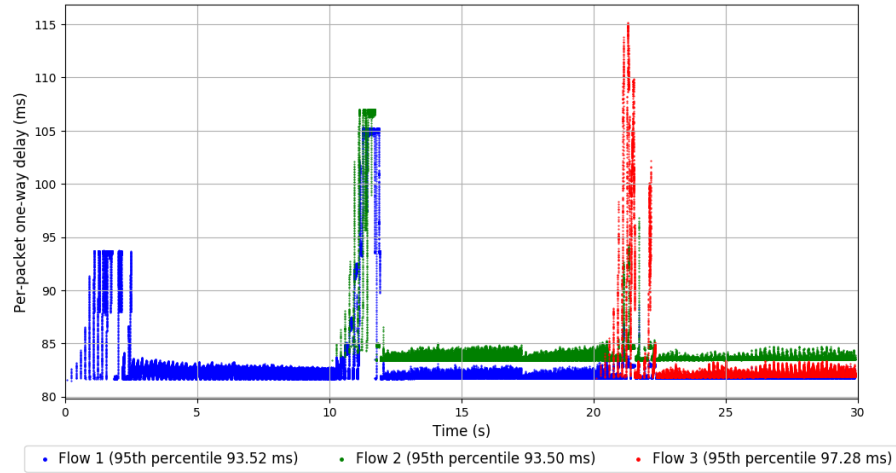
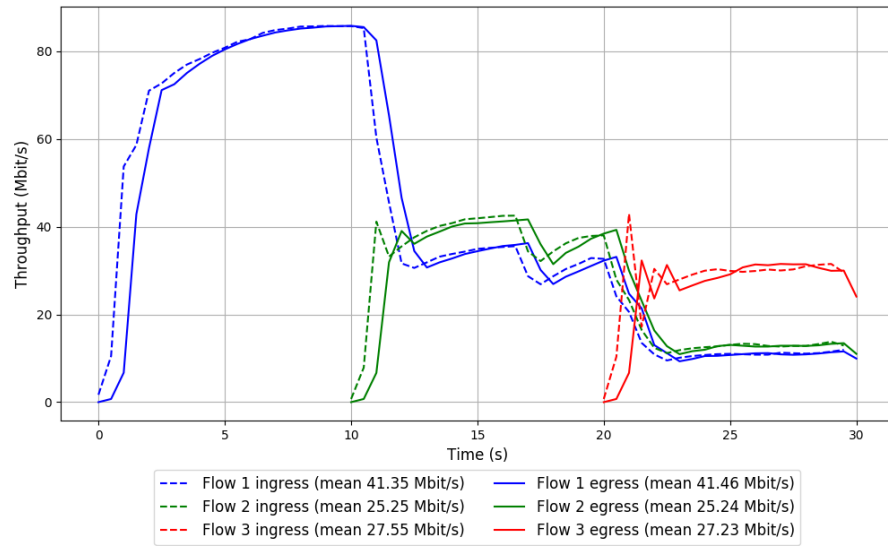
-- Flow 3:

Average throughput: 27.23 Mbit/s

95th percentile per-packet one-way delay: 97.282 ms

Loss rate: 2.76%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-25 10:21:38

End at: 2018-07-25 10:22:08

Local clock offset: -2.503 ms

Remote clock offset: 3.339 ms

Below is generated by plot.py at 2018-07-25 11:12:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.23 Mbit/s

95th percentile per-packet one-way delay: 95.189 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 40.91 Mbit/s

95th percentile per-packet one-way delay: 95.128 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 32.04 Mbit/s

95th percentile per-packet one-way delay: 97.118 ms

Loss rate: 0.68%

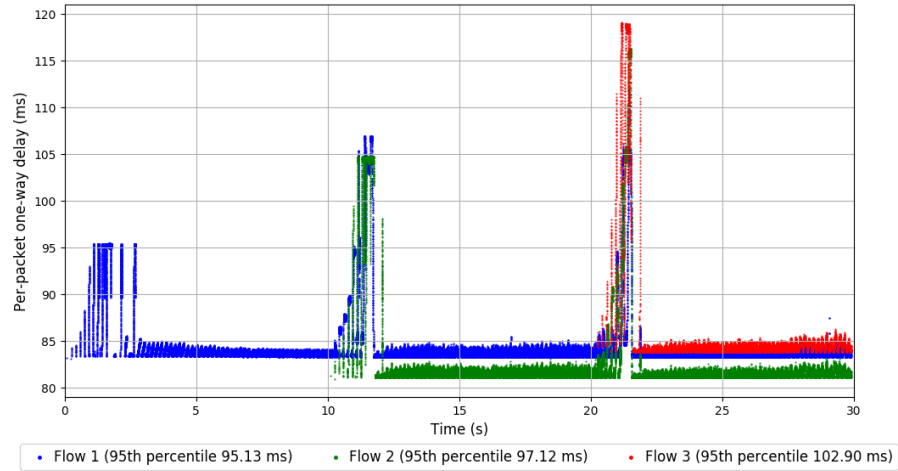
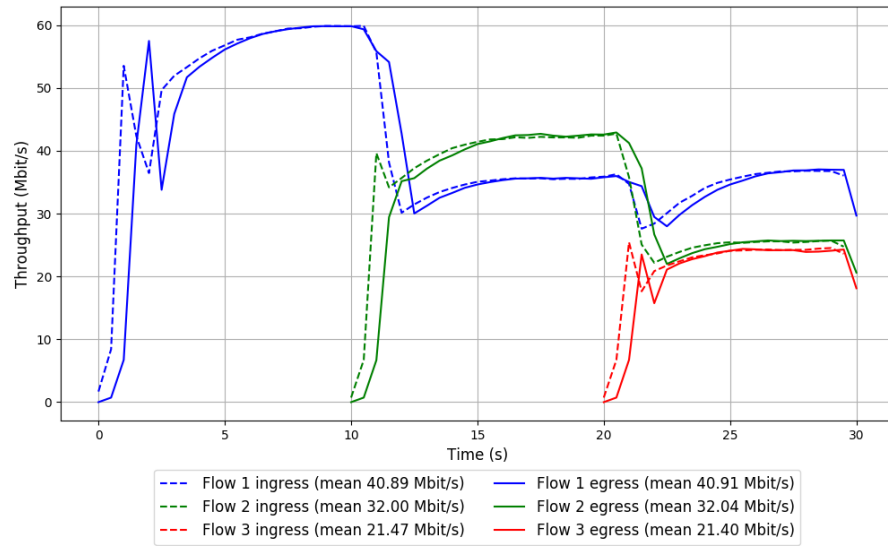
-- Flow 3:

Average throughput: 21.40 Mbit/s

95th percentile per-packet one-way delay: 102.899 ms

Loss rate: 1.94%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-25 10:43:00

End at: 2018-07-25 10:43:30

Local clock offset: -1.656 ms

Remote clock offset: 2.397 ms

Below is generated by plot.py at 2018-07-25 11:12:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.23 Mbit/s

95th percentile per-packet one-way delay: 98.168 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 40.33 Mbit/s

95th percentile per-packet one-way delay: 96.633 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 28.11 Mbit/s

95th percentile per-packet one-way delay: 103.562 ms

Loss rate: 0.67%

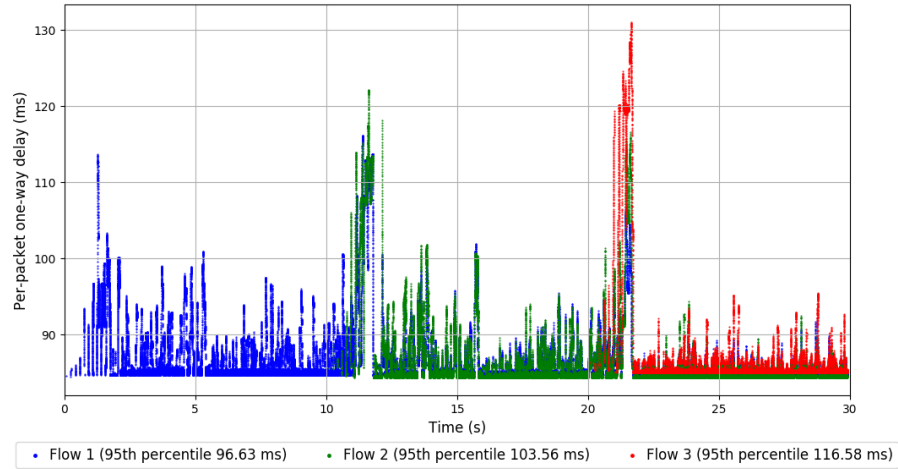
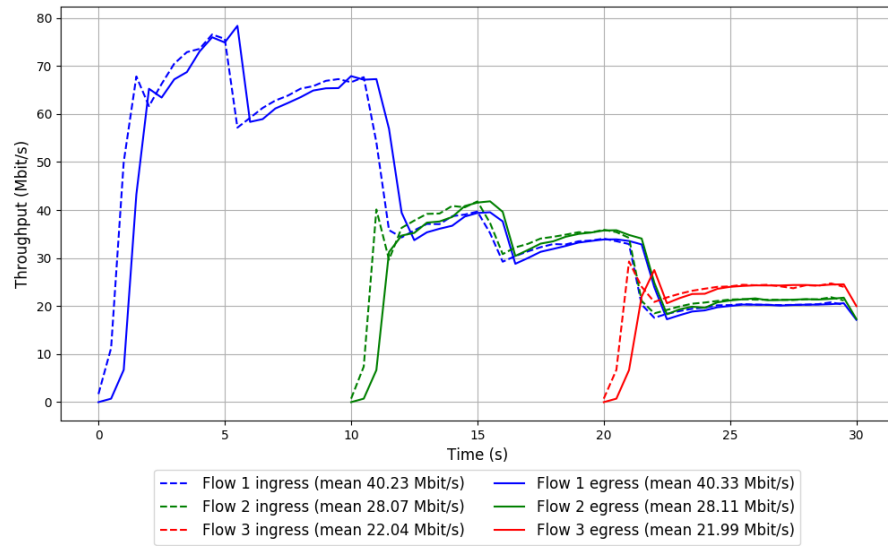
-- Flow 3:

Average throughput: 21.99 Mbit/s

95th percentile per-packet one-way delay: 116.578 ms

Loss rate: 1.87%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-25 11:04:07

End at: 2018-07-25 11:04:37

Local clock offset: -2.821 ms

Remote clock offset: 7.672 ms

Below is generated by plot.py at 2018-07-25 11:12:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.47 Mbit/s

95th percentile per-packet one-way delay: 96.922 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 41.95 Mbit/s

95th percentile per-packet one-way delay: 96.267 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 30.14 Mbit/s

95th percentile per-packet one-way delay: 98.557 ms

Loss rate: 0.79%

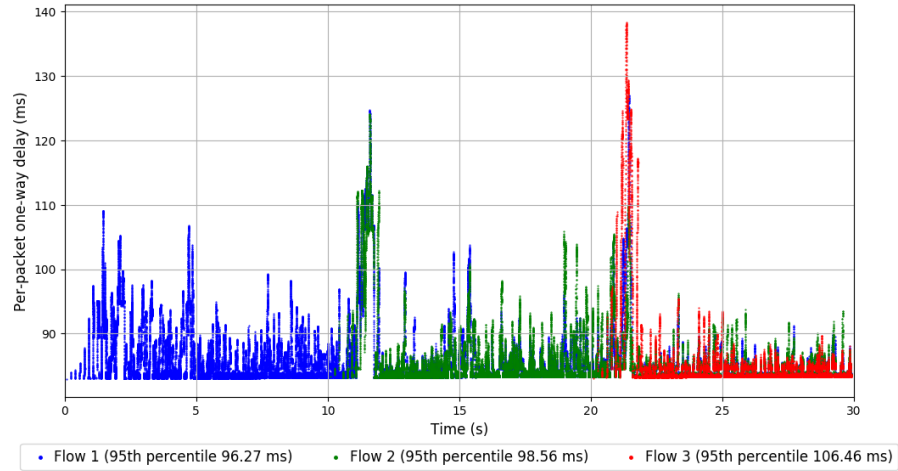
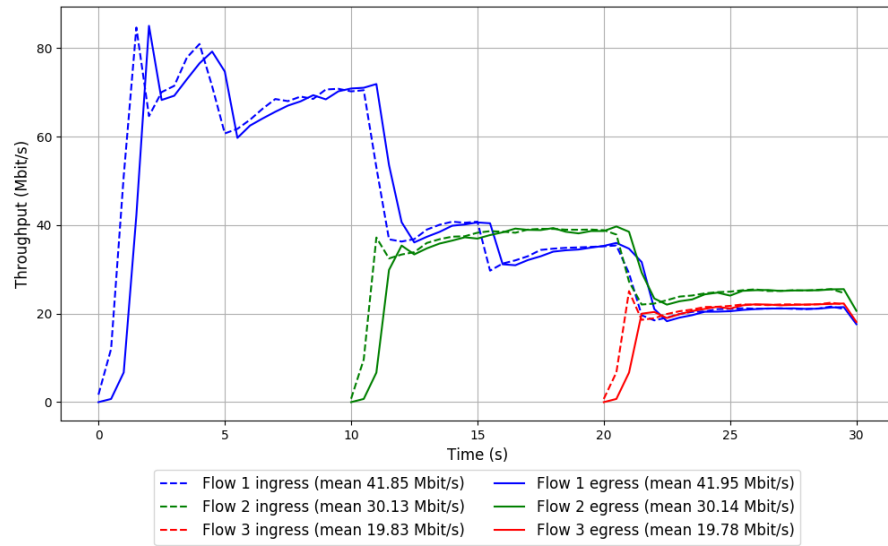
-- Flow 3:

Average throughput: 19.78 Mbit/s

95th percentile per-packet one-way delay: 106.462 ms

Loss rate: 1.89%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-25 07:41:39

End at: 2018-07-25 07:42:09

Local clock offset: -7.046 ms

Remote clock offset: 6.541 ms

Below is generated by plot.py at 2018-07-25 11:13:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.95 Mbit/s

95th percentile per-packet one-way delay: 110.628 ms

Loss rate: 2.47%

-- Flow 1:

Average throughput: 57.46 Mbit/s

95th percentile per-packet one-way delay: 109.352 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 111.004 ms

Loss rate: 3.81%

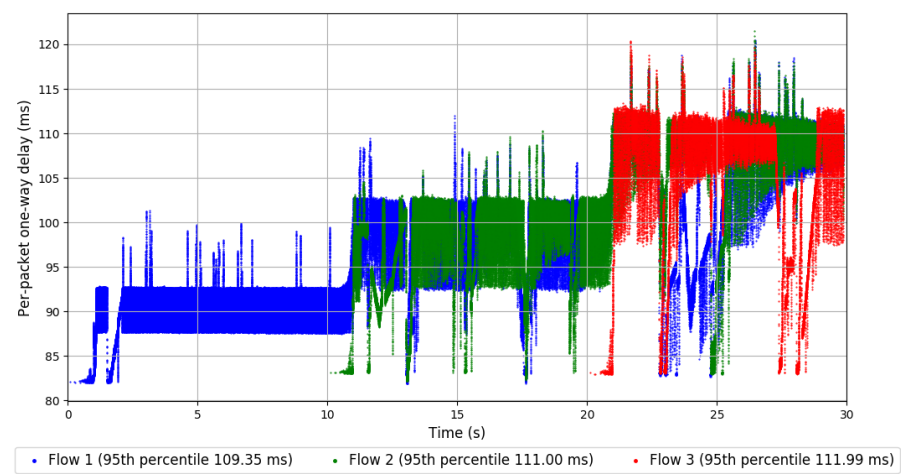
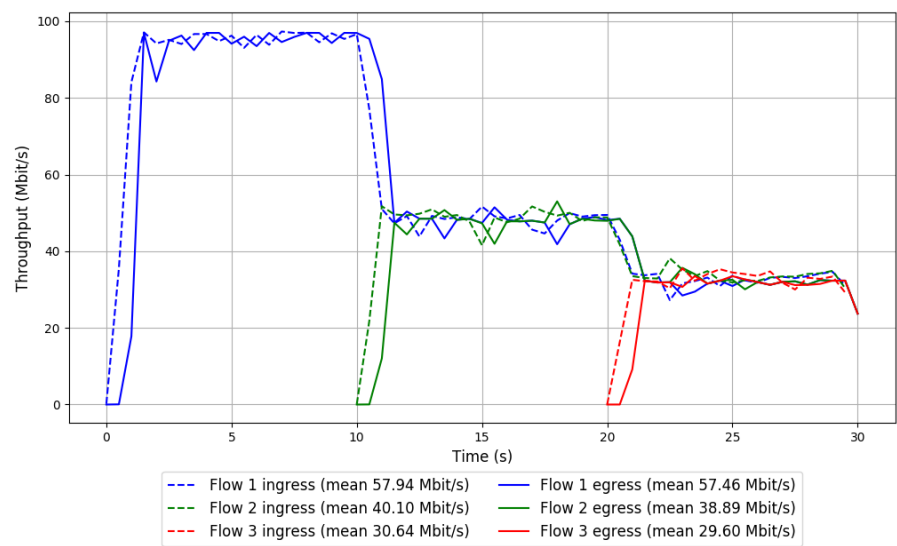
-- Flow 3:

Average throughput: 29.60 Mbit/s

95th percentile per-packet one-way delay: 111.987 ms

Loss rate: 5.09%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-25 08:02:44

End at: 2018-07-25 08:03:14

Local clock offset: -6.377 ms

Remote clock offset: 5.755 ms

Below is generated by plot.py at 2018-07-25 11:13:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.02 Mbit/s

95th percentile per-packet one-way delay: 105.650 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 58.15 Mbit/s

95th percentile per-packet one-way delay: 105.532 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 39.24 Mbit/s

95th percentile per-packet one-way delay: 105.450 ms

Loss rate: 3.44%

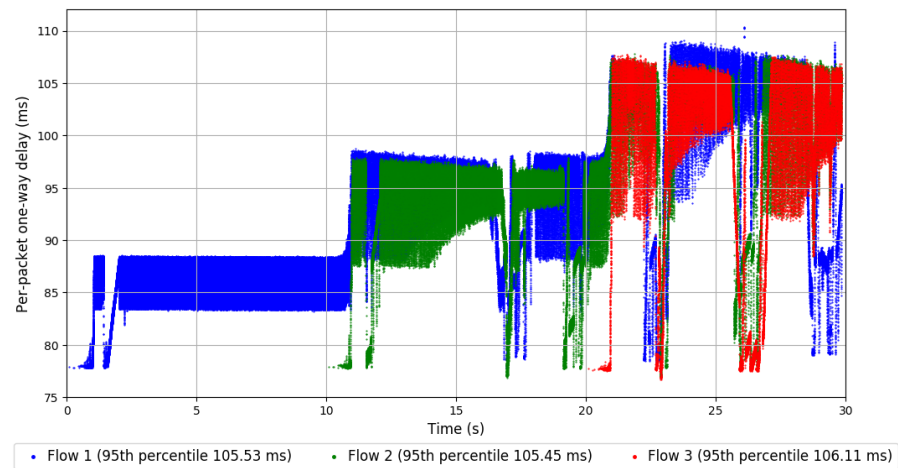
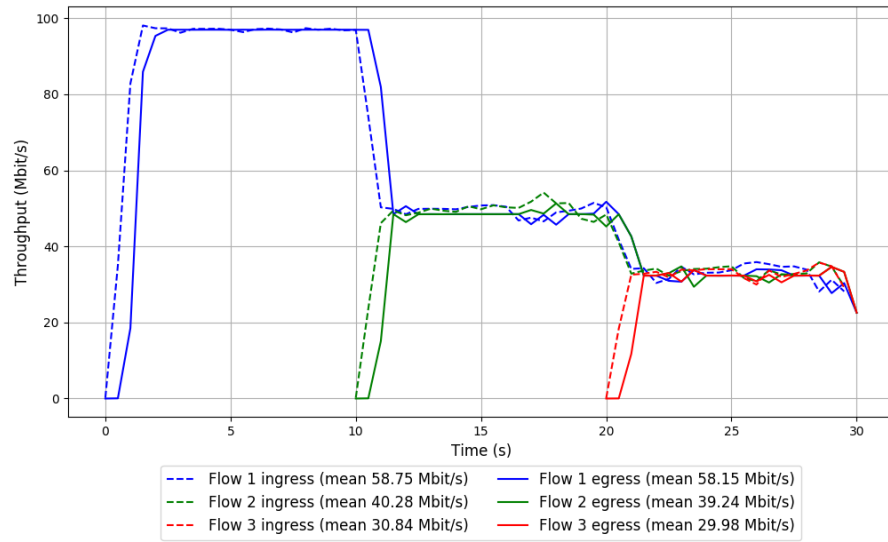
-- Flow 3:

Average throughput: 29.98 Mbit/s

95th percentile per-packet one-way delay: 106.111 ms

Loss rate: 4.51%

Run 2: Report of FillP — Data Link

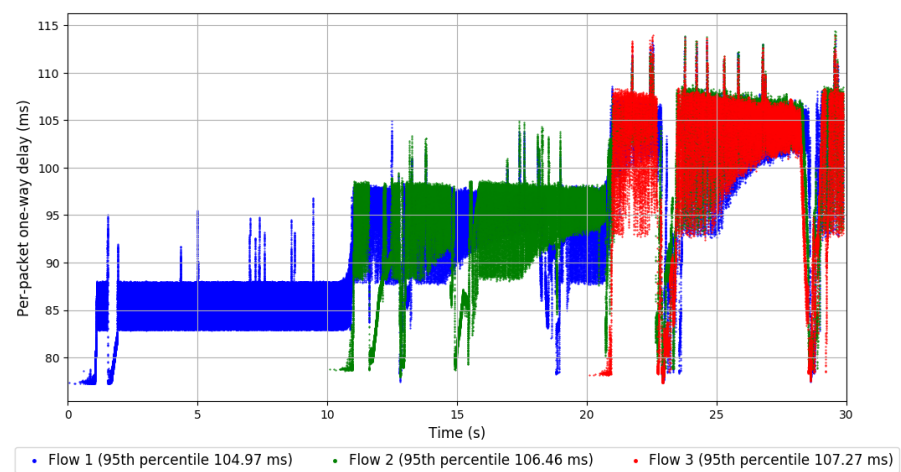
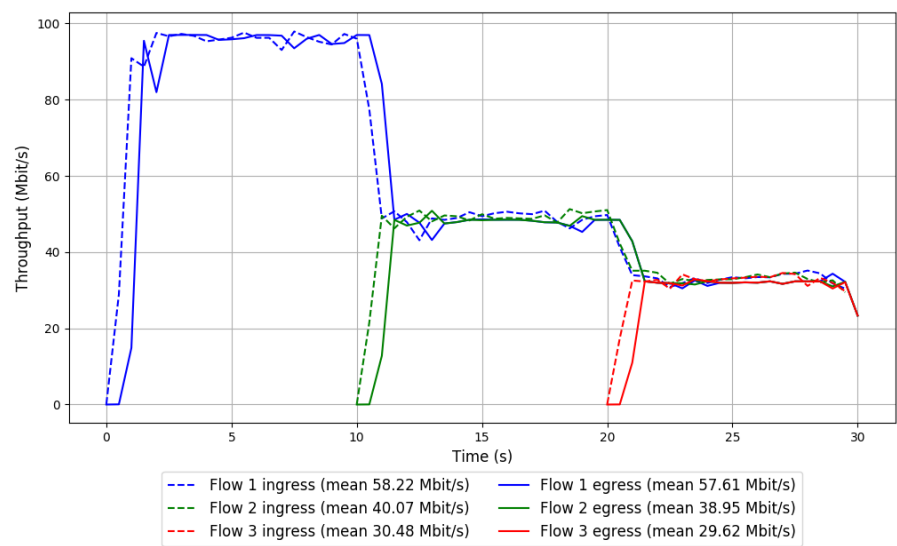


Run 3: Statistics of FillP

Start at: 2018-07-25 08:23:54
End at: 2018-07-25 08:24:24
Local clock offset: -1.334 ms
Remote clock offset: 15.132 ms

Below is generated by plot.py at 2018-07-25 11:13:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.16 Mbit/s
95th percentile per-packet one-way delay: 106.086 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 57.61 Mbit/s
95th percentile per-packet one-way delay: 104.967 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 106.463 ms
Loss rate: 3.64%
-- Flow 3:
Average throughput: 29.62 Mbit/s
95th percentile per-packet one-way delay: 107.271 ms
Loss rate: 4.51%

Run 3: Report of FillP — Data Link

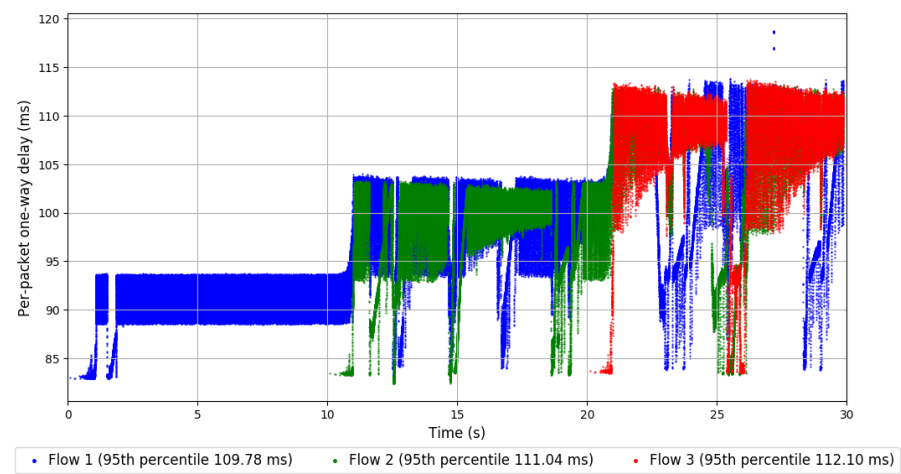
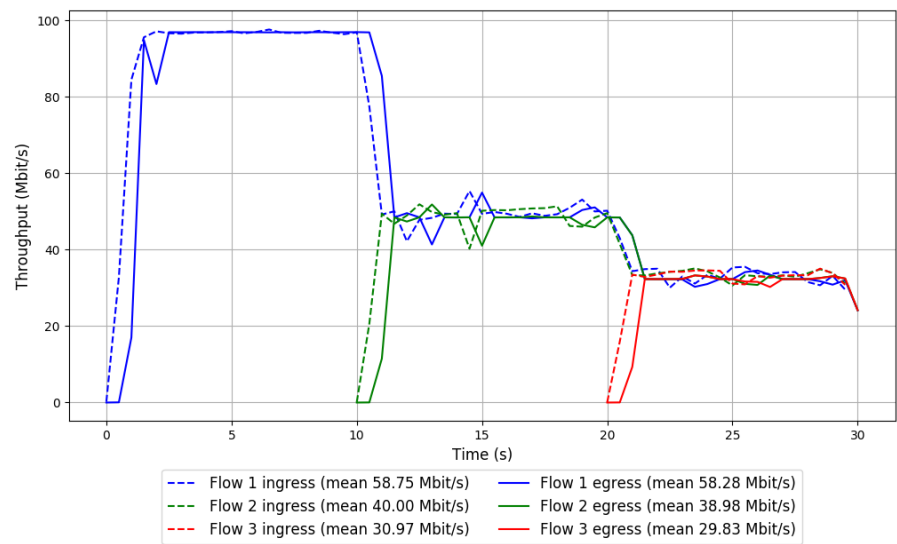


Run 4: Statistics of FillP

Start at: 2018-07-25 08:45:10
End at: 2018-07-25 08:45:40
Local clock offset: -5.974 ms
Remote clock offset: 11.661 ms

Below is generated by plot.py at 2018-07-25 11:13:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: 111.013 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 58.28 Mbit/s
95th percentile per-packet one-way delay: 109.780 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 38.98 Mbit/s
95th percentile per-packet one-way delay: 111.041 ms
Loss rate: 3.33%
-- Flow 3:
Average throughput: 29.83 Mbit/s
95th percentile per-packet one-way delay: 112.103 ms
Loss rate: 5.40%

Run 4: Report of FillP — Data Link

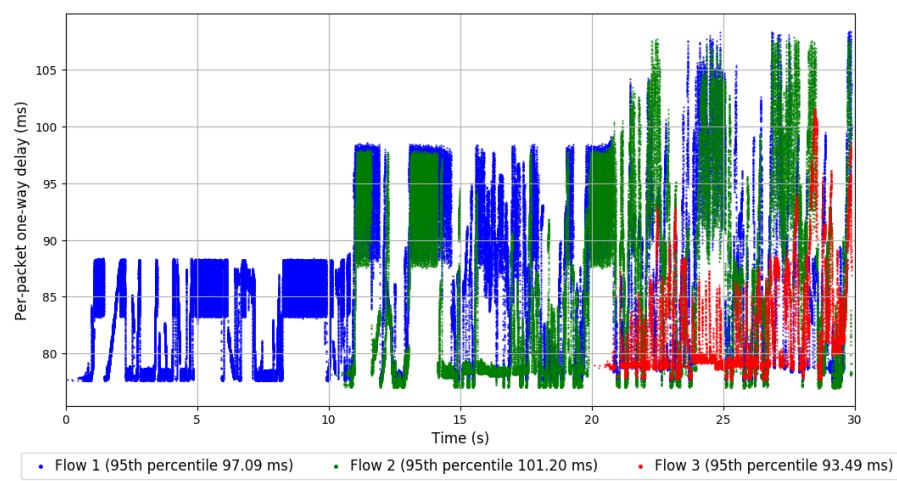
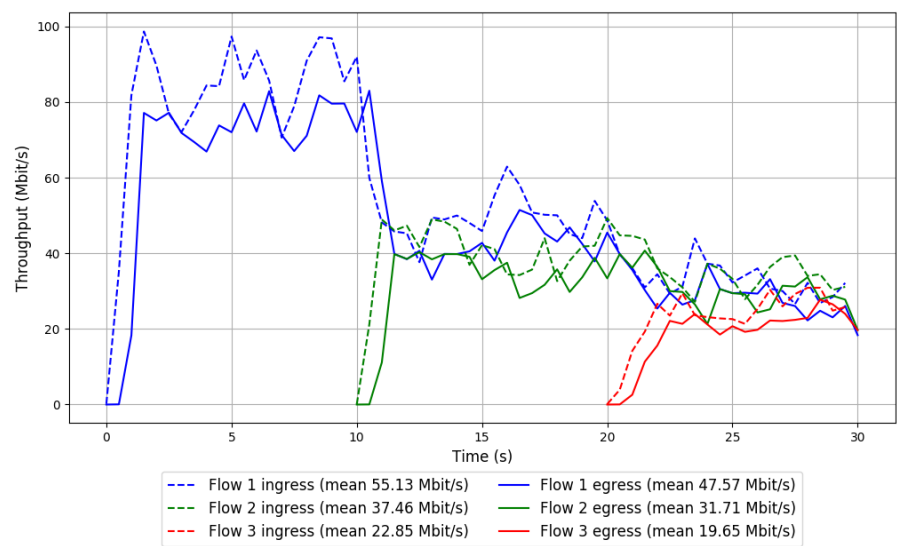


Run 5: Statistics of FillP

Start at: 2018-07-25 09:06:27
End at: 2018-07-25 09:06:57
Local clock offset: -5.336 ms
Remote clock offset: 16.435 ms

Below is generated by plot.py at 2018-07-25 11:13:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.05 Mbit/s
95th percentile per-packet one-way delay: 97.873 ms
Loss rate: 14.82%
-- Flow 1:
Average throughput: 47.57 Mbit/s
95th percentile per-packet one-way delay: 97.093 ms
Loss rate: 14.19%
-- Flow 2:
Average throughput: 31.71 Mbit/s
95th percentile per-packet one-way delay: 101.201 ms
Loss rate: 16.04%
-- Flow 3:
Average throughput: 19.65 Mbit/s
95th percentile per-packet one-way delay: 93.488 ms
Loss rate: 15.40%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-25 09:27:47

End at: 2018-07-25 09:28:17

Local clock offset: -2.137 ms

Remote clock offset: 4.698 ms

Below is generated by plot.py at 2018-07-25 11:13:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.82 Mbit/s

95th percentile per-packet one-way delay: 110.332 ms

Loss rate: 2.68%

-- Flow 1:

Average throughput: 58.13 Mbit/s

95th percentile per-packet one-way delay: 110.671 ms

Loss rate: 1.88%

-- Flow 2:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 109.703 ms

Loss rate: 3.42%

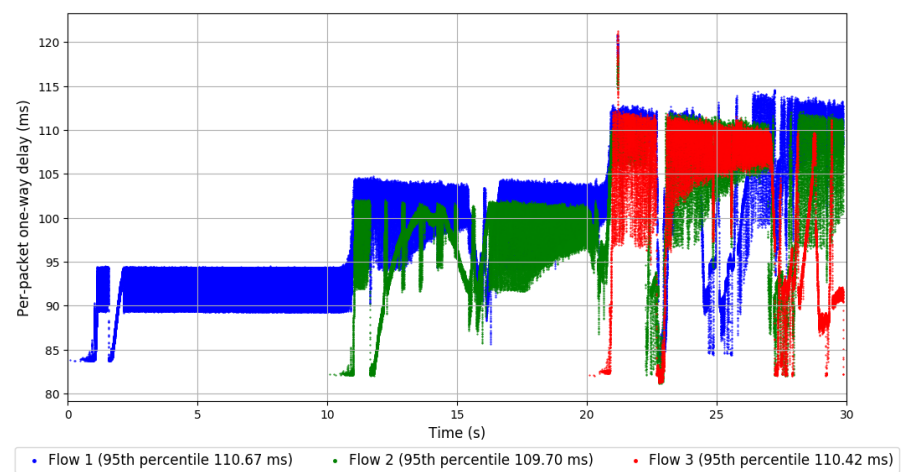
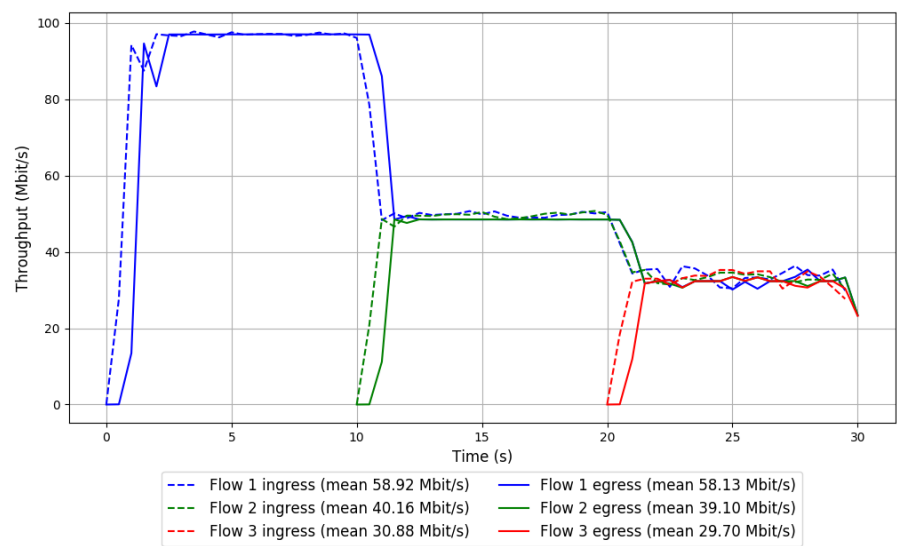
-- Flow 3:

Average throughput: 29.70 Mbit/s

95th percentile per-packet one-way delay: 110.422 ms

Loss rate: 5.37%

Run 6: Report of FillP — Data Link

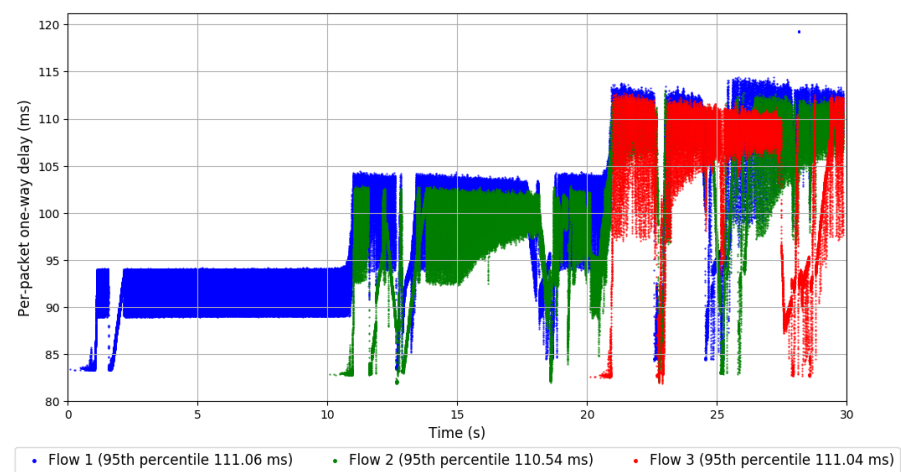
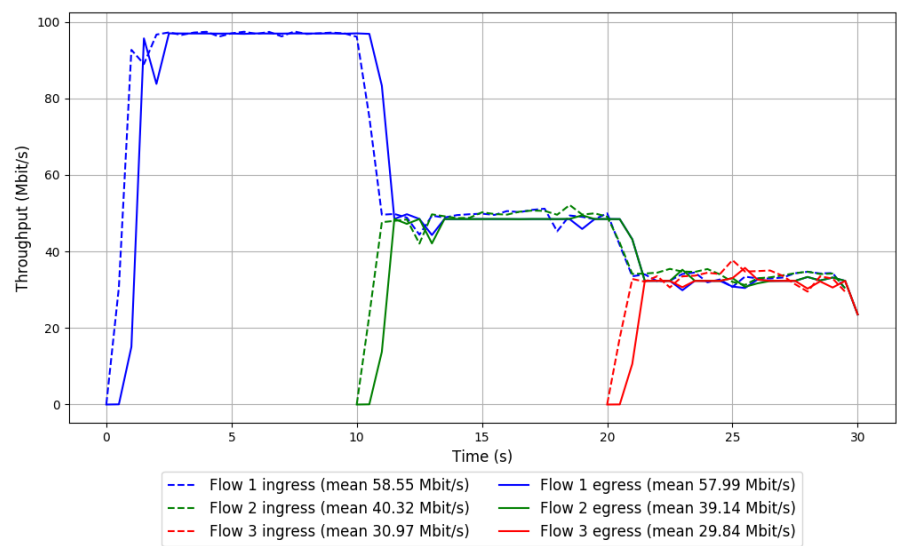


Run 7: Statistics of FillP

Start at: 2018-07-25 09:49:06
End at: 2018-07-25 09:49:36
Local clock offset: -6.768 ms
Remote clock offset: 1.602 ms

Below is generated by plot.py at 2018-07-25 11:13:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 110.846 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 57.99 Mbit/s
95th percentile per-packet one-way delay: 111.063 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 39.14 Mbit/s
95th percentile per-packet one-way delay: 110.541 ms
Loss rate: 3.76%
-- Flow 3:
Average throughput: 29.84 Mbit/s
95th percentile per-packet one-way delay: 111.036 ms
Loss rate: 5.34%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-25 10:10:25

End at: 2018-07-25 10:10:55

Local clock offset: -4.081 ms

Remote clock offset: 7.414 ms

Below is generated by plot.py at 2018-07-25 11:13:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.91 Mbit/s

95th percentile per-packet one-way delay: 107.253 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 58.40 Mbit/s

95th percentile per-packet one-way delay: 106.645 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 38.82 Mbit/s

95th percentile per-packet one-way delay: 108.088 ms

Loss rate: 3.02%

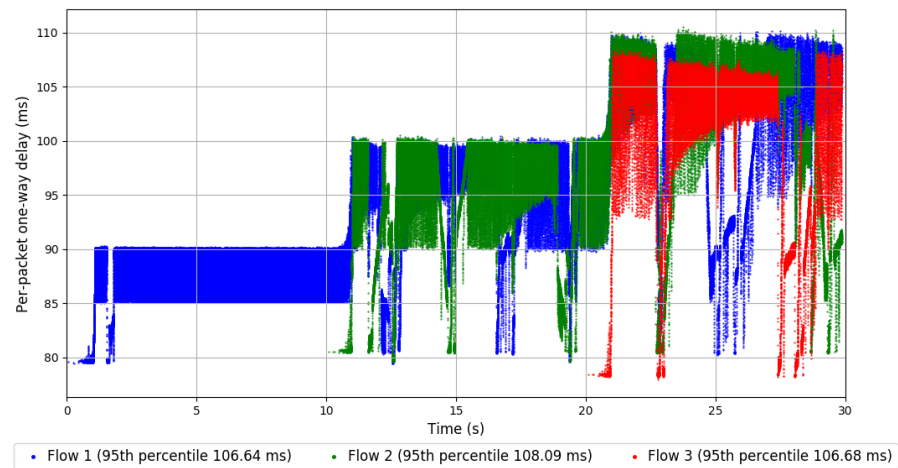
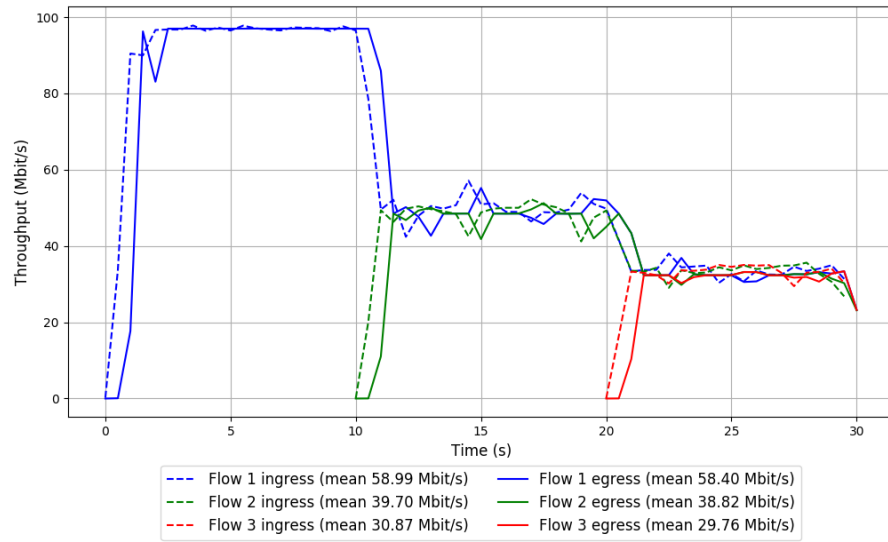
-- Flow 3:

Average throughput: 29.76 Mbit/s

95th percentile per-packet one-way delay: 106.682 ms

Loss rate: 5.29%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-25 10:31:42

End at: 2018-07-25 10:32:12

Local clock offset: -1.746 ms

Remote clock offset: 3.513 ms

Below is generated by plot.py at 2018-07-25 11:14:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.79 Mbit/s

95th percentile per-packet one-way delay: 102.218 ms

Loss rate: 14.94%

-- Flow 1:

Average throughput: 51.35 Mbit/s

95th percentile per-packet one-way delay: 100.951 ms

Loss rate: 14.56%

-- Flow 2:

Average throughput: 24.77 Mbit/s

95th percentile per-packet one-way delay: 104.117 ms

Loss rate: 15.61%

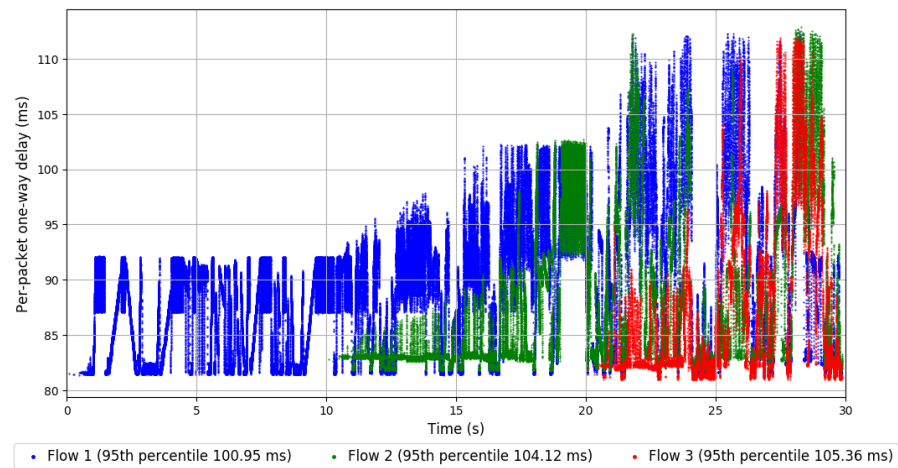
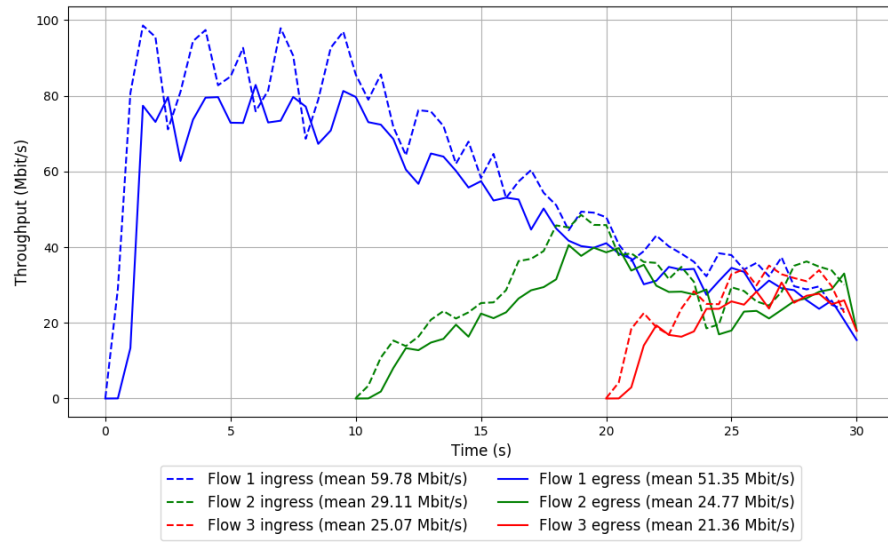
-- Flow 3:

Average throughput: 21.36 Mbit/s

95th percentile per-packet one-way delay: 105.363 ms

Loss rate: 16.17%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-25 10:52:56

End at: 2018-07-25 10:53:26

Local clock offset: -1.458 ms

Remote clock offset: 8.209 ms

Below is generated by plot.py at 2018-07-25 11:14:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.57 Mbit/s

95th percentile per-packet one-way delay: 107.280 ms

Loss rate: 15.97%

-- Flow 1:

Average throughput: 48.26 Mbit/s

95th percentile per-packet one-way delay: 104.574 ms

Loss rate: 15.37%

-- Flow 2:

Average throughput: 18.05 Mbit/s

95th percentile per-packet one-way delay: 104.004 ms

Loss rate: 16.18%

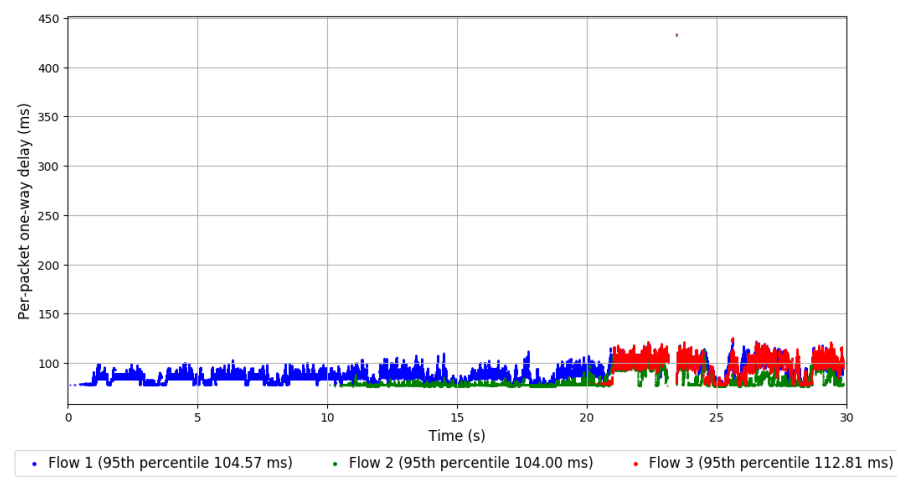
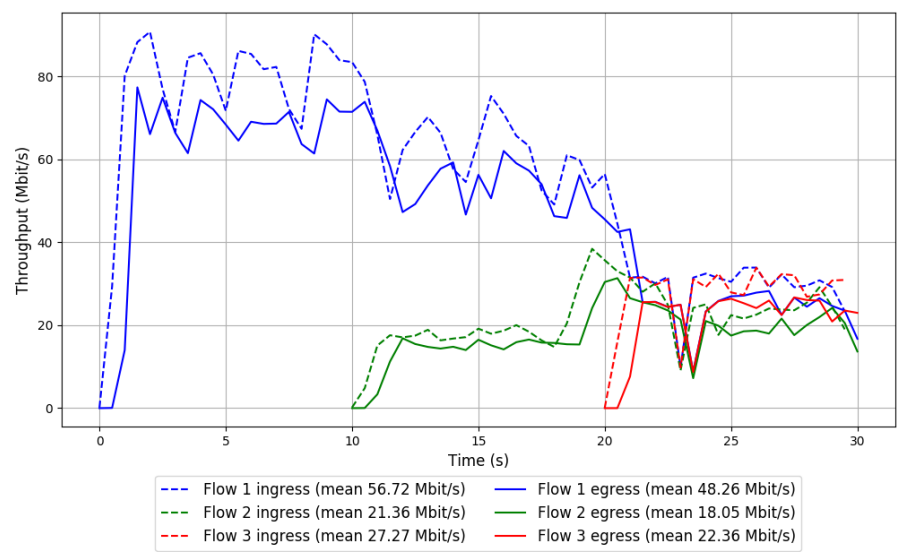
-- Flow 3:

Average throughput: 22.36 Mbit/s

95th percentile per-packet one-way delay: 112.807 ms

Loss rate: 19.36%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-25 07:45:25

End at: 2018-07-25 07:45:55

Local clock offset: -7.04 ms

Remote clock offset: 4.789 ms

Below is generated by plot.py at 2018-07-25 11:14:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.72 Mbit/s

95th percentile per-packet one-way delay: 107.682 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 57.64 Mbit/s

95th percentile per-packet one-way delay: 105.548 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 39.40 Mbit/s

95th percentile per-packet one-way delay: 108.900 ms

Loss rate: 1.48%

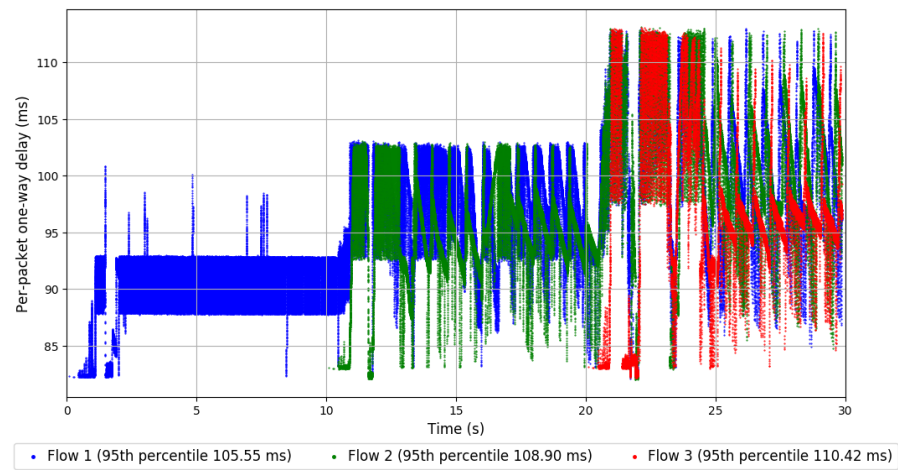
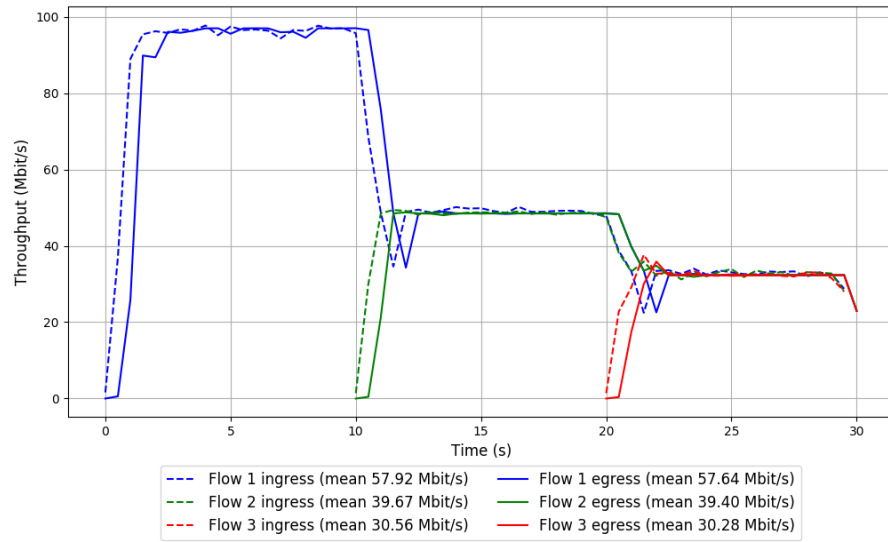
-- Flow 3:

Average throughput: 30.28 Mbit/s

95th percentile per-packet one-way delay: 110.415 ms

Loss rate: 2.49%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-25 08:06:31

End at: 2018-07-25 08:07:01

Local clock offset: -4.709 ms

Remote clock offset: 6.33 ms

Below is generated by plot.py at 2018-07-25 11:14:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.90 Mbit/s

95th percentile per-packet one-way delay: 103.224 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 102.602 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 39.33 Mbit/s

95th percentile per-packet one-way delay: 103.433 ms

Loss rate: 1.30%

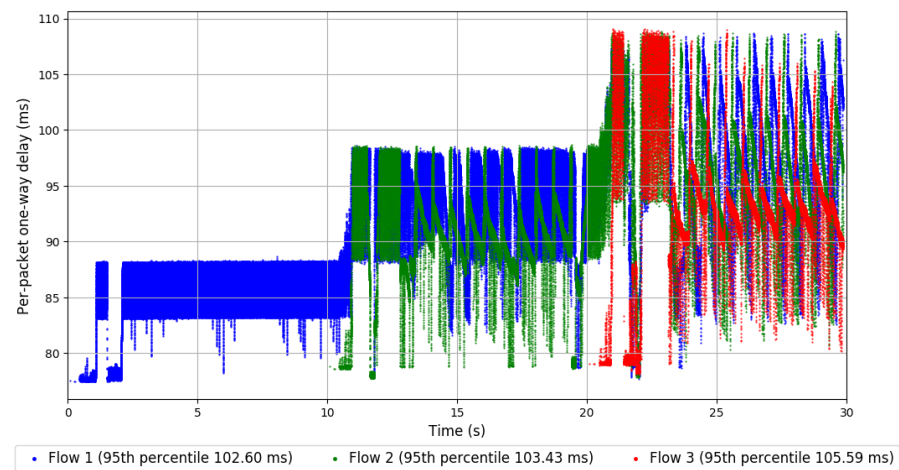
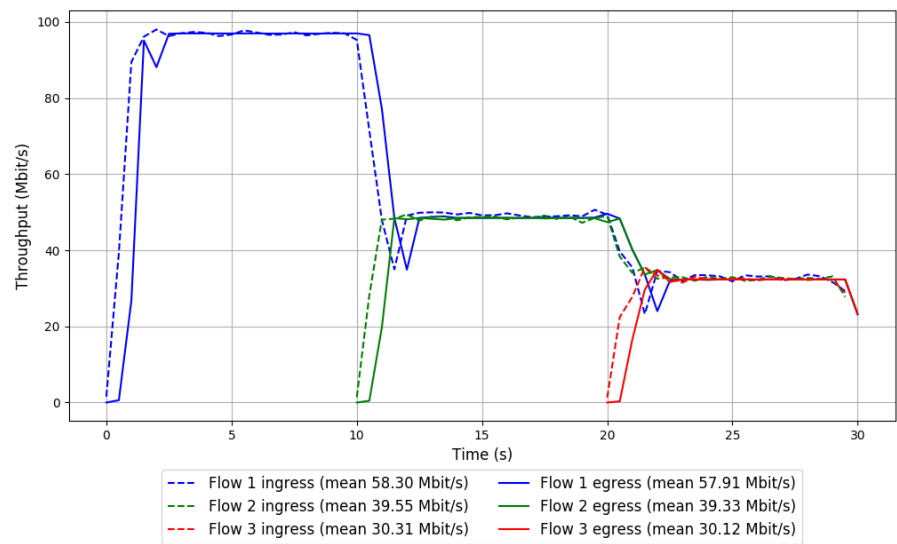
-- Flow 3:

Average throughput: 30.12 Mbit/s

95th percentile per-packet one-way delay: 105.590 ms

Loss rate: 2.24%

Run 2: Report of FillP-Sheep — Data Link

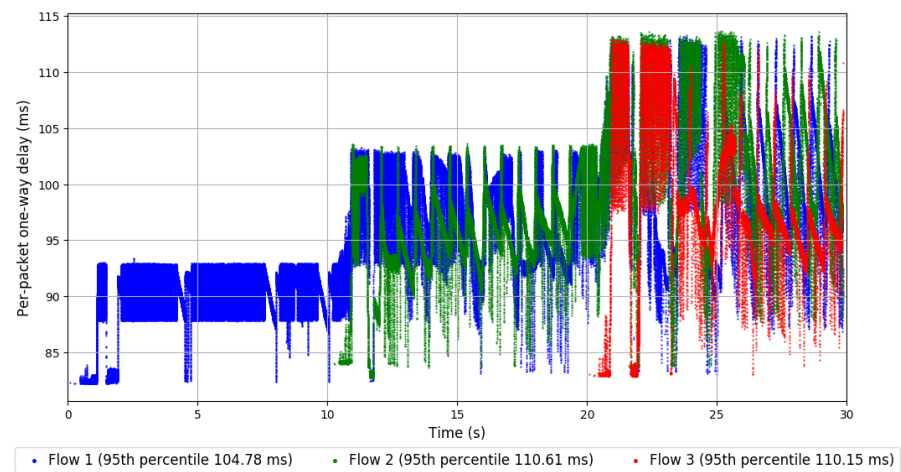
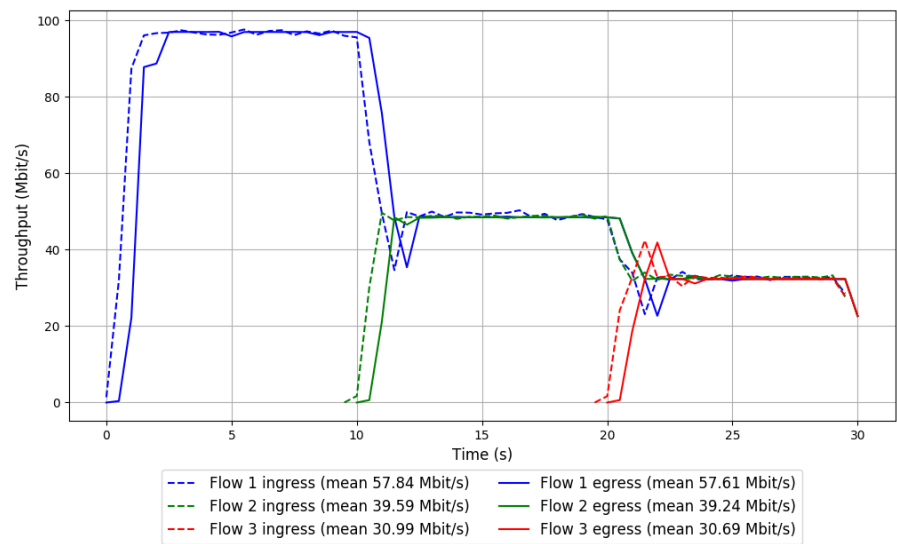


Run 3: Statistics of FillP-Sheep

Start at: 2018-07-25 08:27:41
End at: 2018-07-25 08:28:11
Local clock offset: -1.026 ms
Remote clock offset: 10.902 ms

Below is generated by plot.py at 2018-07-25 11:14:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 108.360 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 57.61 Mbit/s
95th percentile per-packet one-way delay: 104.778 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 39.24 Mbit/s
95th percentile per-packet one-way delay: 110.609 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 30.69 Mbit/s
95th percentile per-packet one-way delay: 110.154 ms
Loss rate: 2.53%

Run 3: Report of FillP-Sheep — Data Link

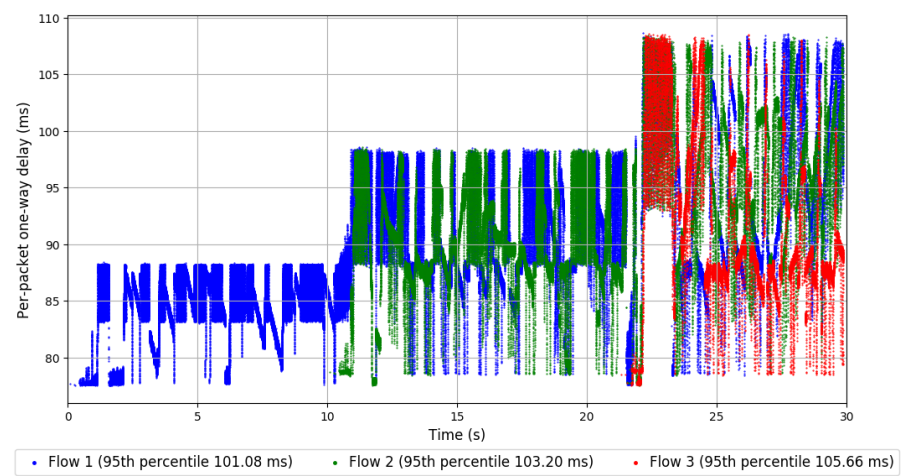
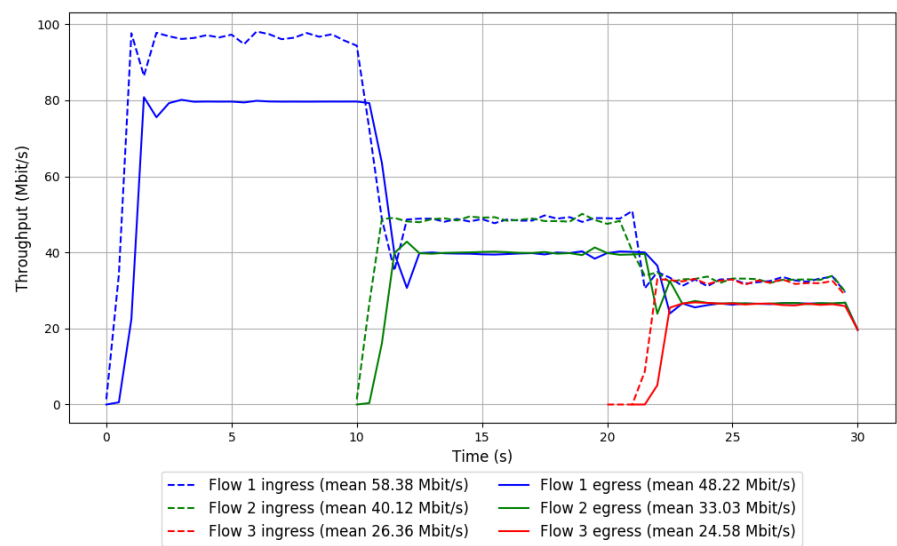


Run 4: Statistics of FillP-Sheep

Start at: 2018-07-25 08:48:56
End at: 2018-07-25 08:49:26
Local clock offset: -6.54 ms
Remote clock offset: 16.229 ms

Below is generated by plot.py at 2018-07-25 11:14:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.19 Mbit/s
95th percentile per-packet one-way delay: 102.650 ms
Loss rate: 18.15%
-- Flow 1:
Average throughput: 48.22 Mbit/s
95th percentile per-packet one-way delay: 101.076 ms
Loss rate: 17.84%
-- Flow 2:
Average throughput: 33.03 Mbit/s
95th percentile per-packet one-way delay: 103.205 ms
Loss rate: 18.34%
-- Flow 3:
Average throughput: 24.58 Mbit/s
95th percentile per-packet one-way delay: 105.663 ms
Loss rate: 19.64%

Run 4: Report of FillP-Sheep — Data Link

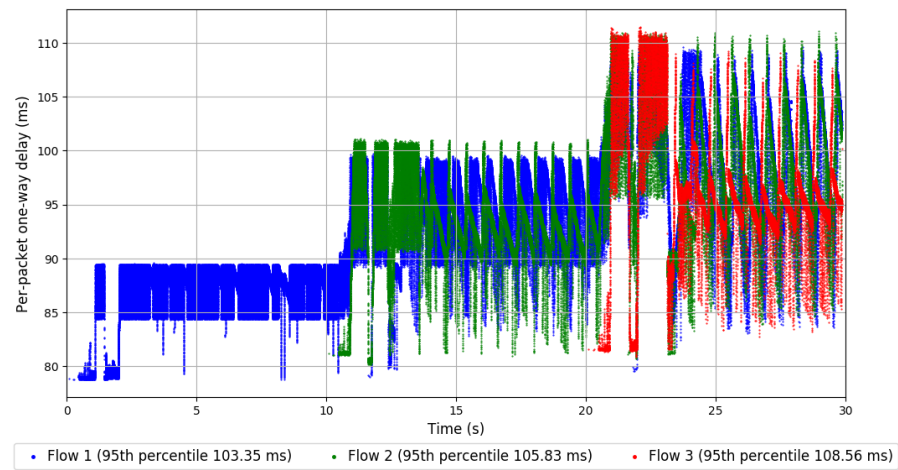
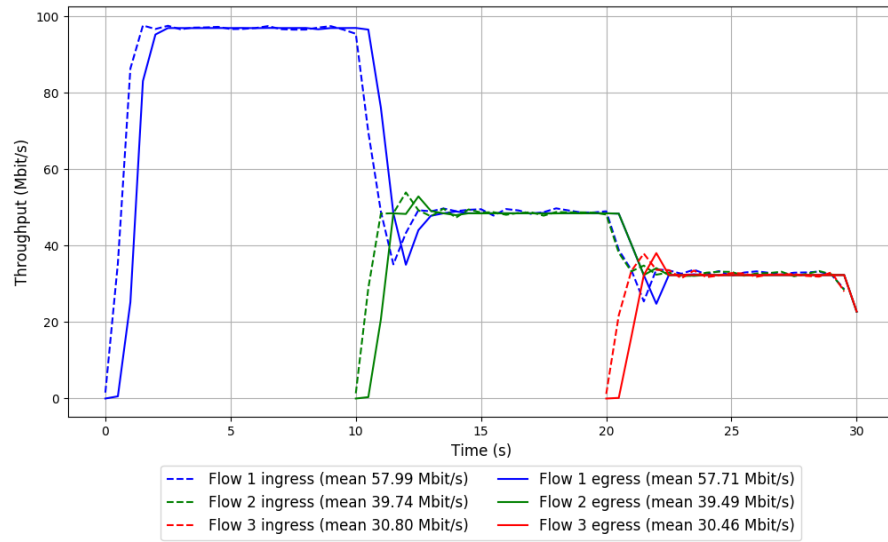


Run 5: Statistics of FillP-Sheep

Start at: 2018-07-25 09:10:21
End at: 2018-07-25 09:10:51
Local clock offset: -4.214 ms
Remote clock offset: 15.552 ms

Below is generated by plot.py at 2018-07-25 11:14:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.89 Mbit/s
95th percentile per-packet one-way delay: 105.142 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 57.71 Mbit/s
95th percentile per-packet one-way delay: 103.349 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 39.49 Mbit/s
95th percentile per-packet one-way delay: 105.826 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 30.46 Mbit/s
95th percentile per-packet one-way delay: 108.562 ms
Loss rate: 2.67%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-25 09:31:34

End at: 2018-07-25 09:32:04

Local clock offset: -1.989 ms

Remote clock offset: 7.439 ms

Below is generated by plot.py at 2018-07-25 11:14:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.82 Mbit/s

95th percentile per-packet one-way delay: 104.214 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 57.78 Mbit/s

95th percentile per-packet one-way delay: 102.249 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 39.41 Mbit/s

95th percentile per-packet one-way delay: 104.338 ms

Loss rate: 1.51%

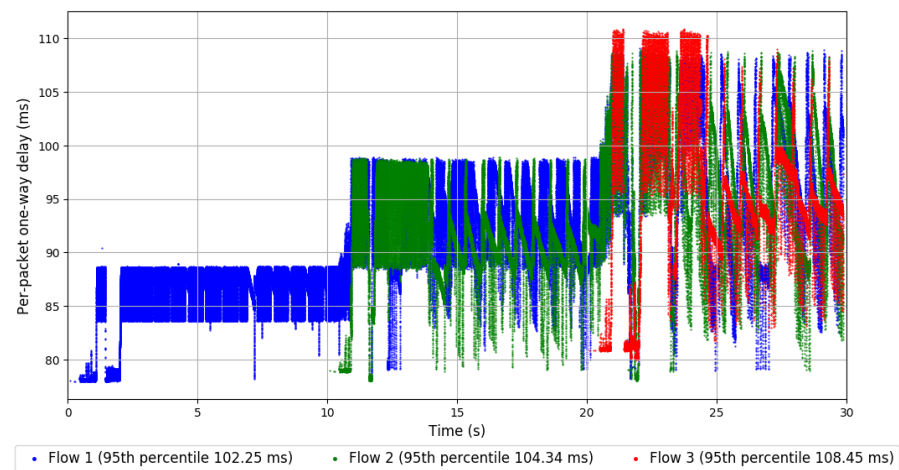
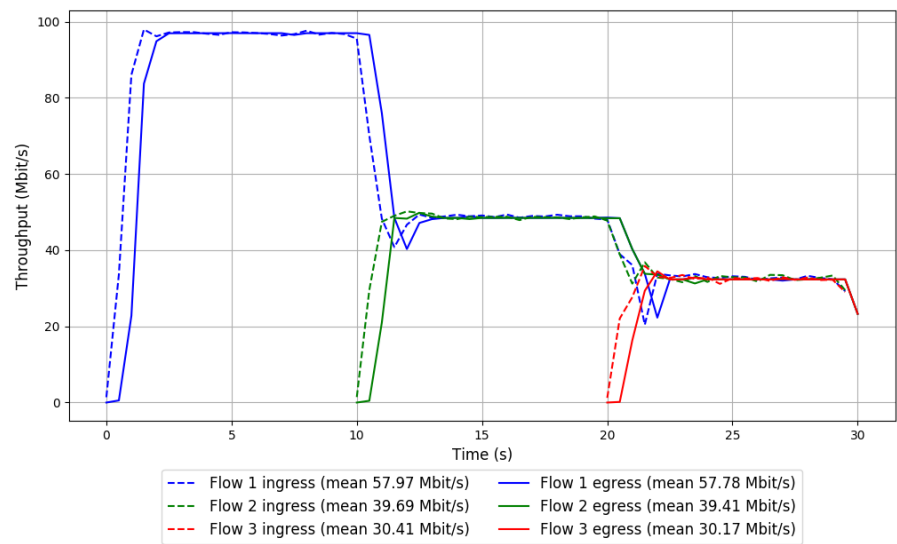
-- Flow 3:

Average throughput: 30.17 Mbit/s

95th percentile per-packet one-way delay: 108.455 ms

Loss rate: 2.40%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-25 09:52:52

End at: 2018-07-25 09:53:22

Local clock offset: -7.058 ms

Remote clock offset: 7.418 ms

Below is generated by plot.py at 2018-07-25 11:15:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.89 Mbit/s

95th percentile per-packet one-way delay: 104.307 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 101.765 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 39.23 Mbit/s

95th percentile per-packet one-way delay: 105.529 ms

Loss rate: 1.73%

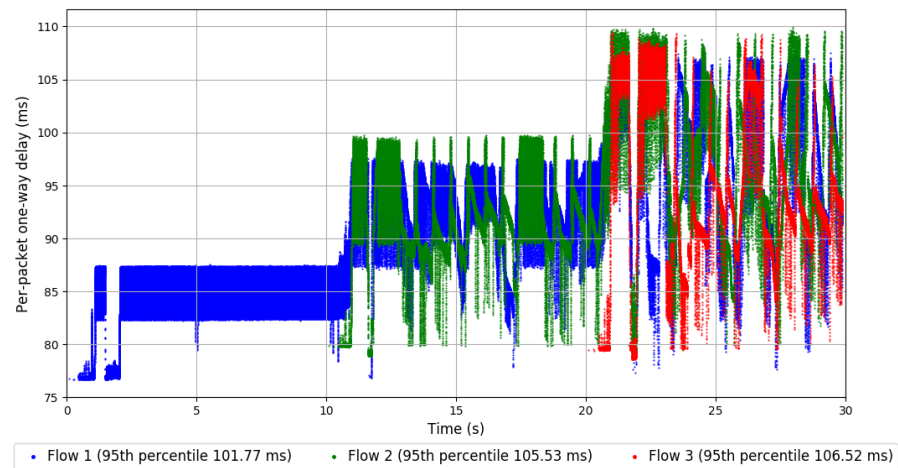
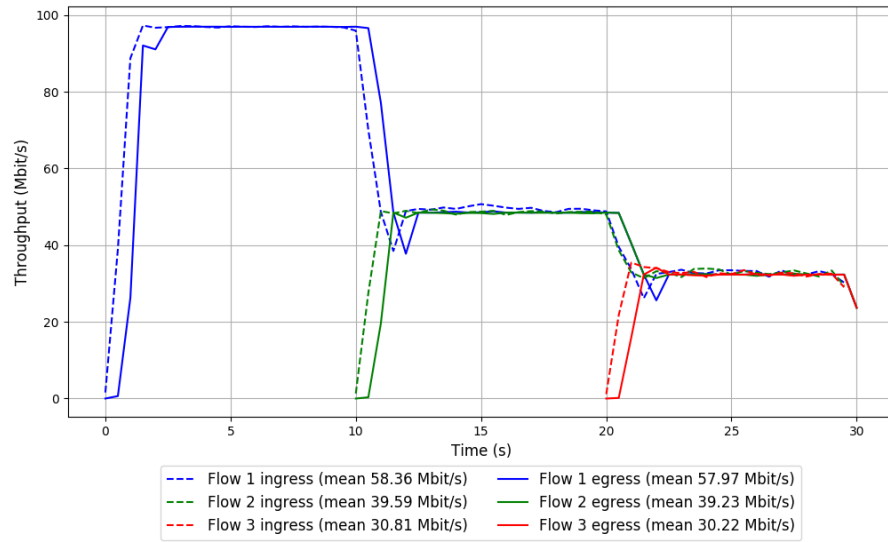
-- Flow 3:

Average throughput: 30.22 Mbit/s

95th percentile per-packet one-way delay: 106.520 ms

Loss rate: 3.45%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-25 10:14:10

End at: 2018-07-25 10:14:40

Local clock offset: -3.412 ms

Remote clock offset: 3.536 ms

Below is generated by plot.py at 2018-07-25 11:15:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 109.297 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 57.72 Mbit/s

95th percentile per-packet one-way delay: 108.188 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 39.28 Mbit/s

95th percentile per-packet one-way delay: 110.033 ms

Loss rate: 1.41%

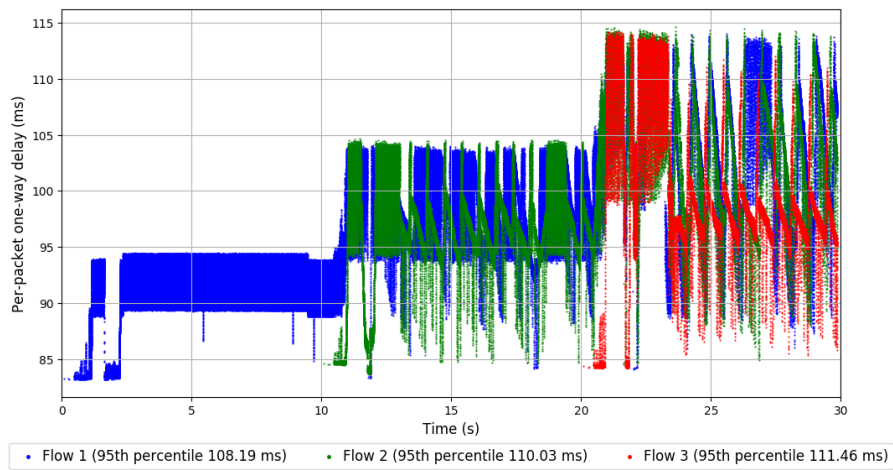
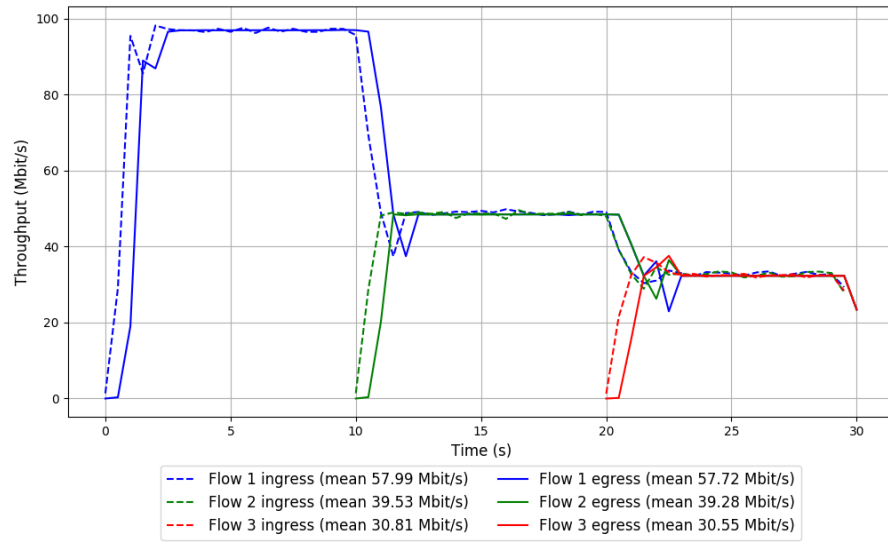
-- Flow 3:

Average throughput: 30.55 Mbit/s

95th percentile per-packet one-way delay: 111.458 ms

Loss rate: 2.50%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-25 10:35:35

End at: 2018-07-25 10:36:05

Local clock offset: -1.749 ms

Remote clock offset: 8.329 ms

Below is generated by plot.py at 2018-07-25 11:15:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.66 Mbit/s

95th percentile per-packet one-way delay: 107.865 ms

Loss rate: 16.32%

-- Flow 1:

Average throughput: 48.11 Mbit/s

95th percentile per-packet one-way delay: 105.988 ms

Loss rate: 16.82%

-- Flow 2:

Average throughput: 32.63 Mbit/s

95th percentile per-packet one-way delay: 108.264 ms

Loss rate: 16.53%

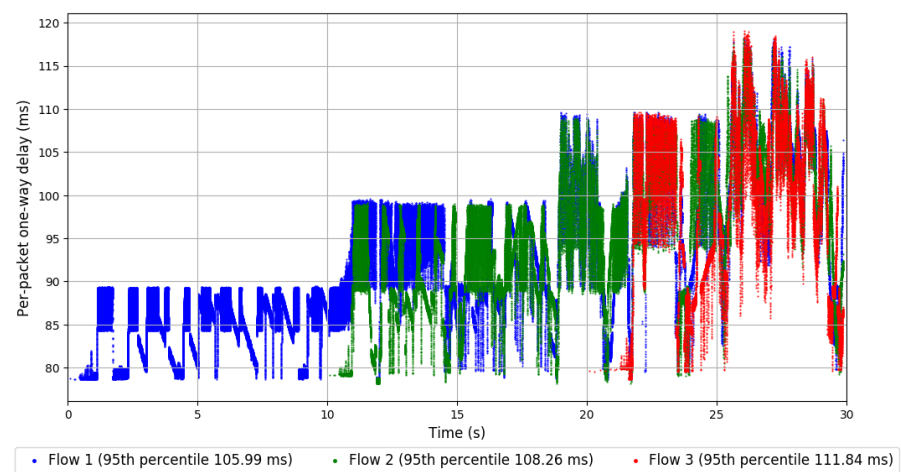
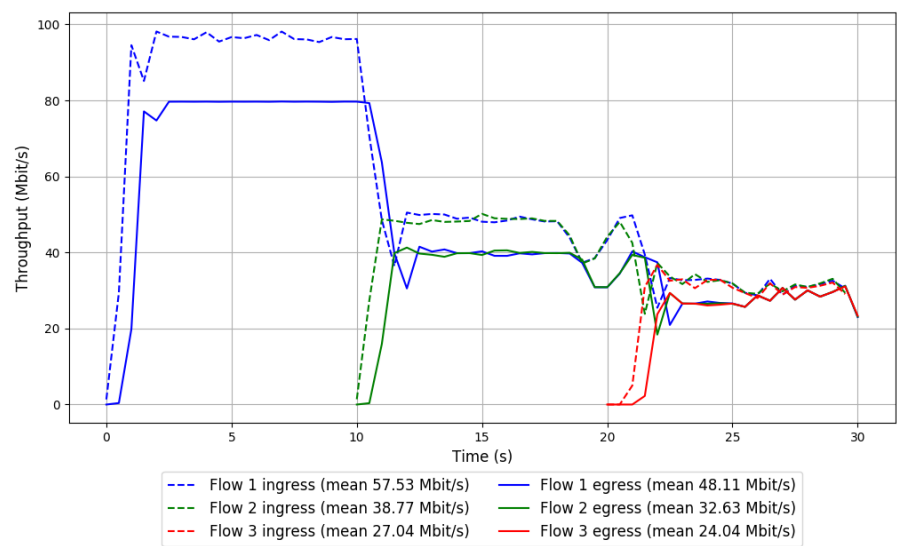
-- Flow 3:

Average throughput: 24.04 Mbit/s

95th percentile per-packet one-way delay: 111.840 ms

Loss rate: 12.55%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-25 10:56:42

End at: 2018-07-25 10:57:12

Local clock offset: -1.283 ms

Remote clock offset: 6.288 ms

Below is generated by plot.py at 2018-07-25 11:15:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.55 Mbit/s

95th percentile per-packet one-way delay: 113.063 ms

Loss rate: 4.34%

-- Flow 1:

Average throughput: 51.99 Mbit/s

95th percentile per-packet one-way delay: 111.828 ms

Loss rate: 3.42%

-- Flow 2:

Average throughput: 35.32 Mbit/s

95th percentile per-packet one-way delay: 114.083 ms

Loss rate: 5.56%

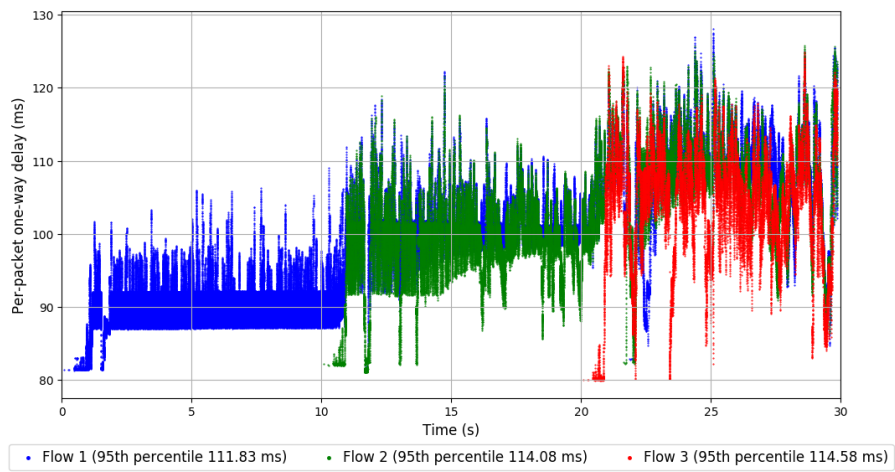
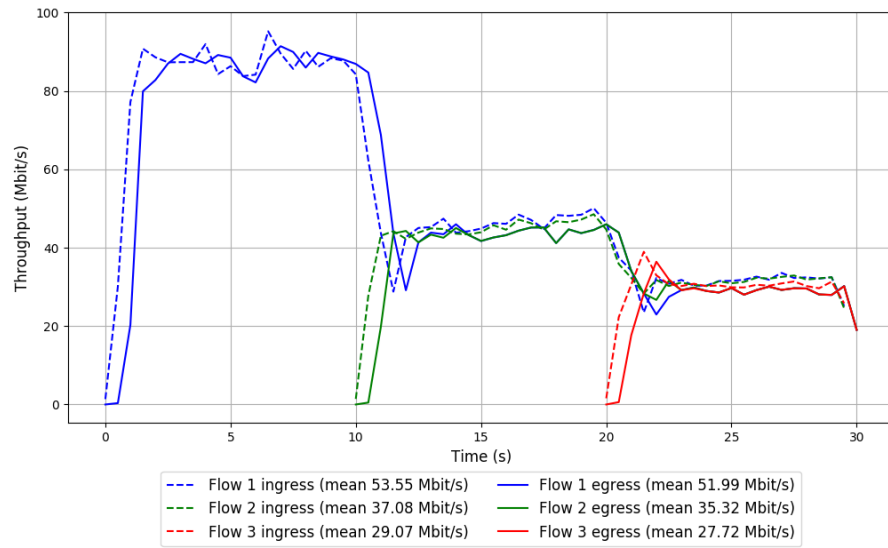
-- Flow 3:

Average throughput: 27.72 Mbit/s

95th percentile per-packet one-way delay: 114.580 ms

Loss rate: 6.32%

Run 10: Report of FillP-Sheep — Data Link

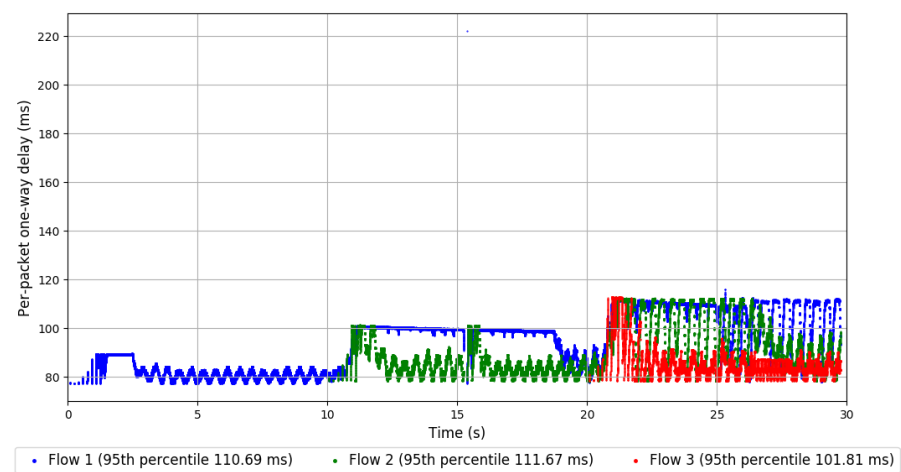
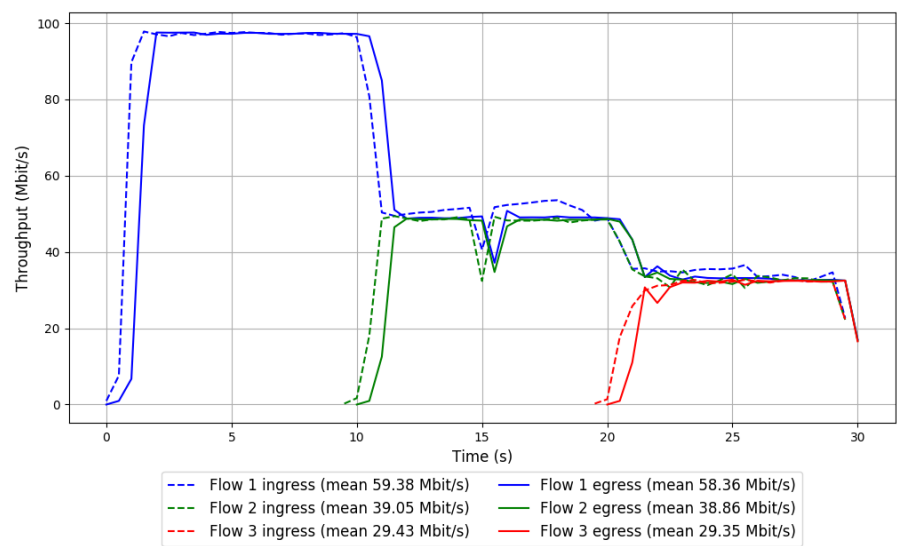


```
Run 1: Statistics of Indigo

Start at: 2018-07-25 07:51:35
End at: 2018-07-25 07:52:05
Local clock offset: -7.104 ms
Remote clock offset: 7.827 ms

# Below is generated by plot.py at 2018-07-25 11:15:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 110.920 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 58.36 Mbit/s
95th percentile per-packet one-way delay: 110.692 ms
Loss rate: 2.28%
-- Flow 2:
Average throughput: 38.86 Mbit/s
95th percentile per-packet one-way delay: 111.668 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 29.35 Mbit/s
95th percentile per-packet one-way delay: 101.806 ms
Loss rate: 1.93%
```

Run 1: Report of Indigo — Data Link

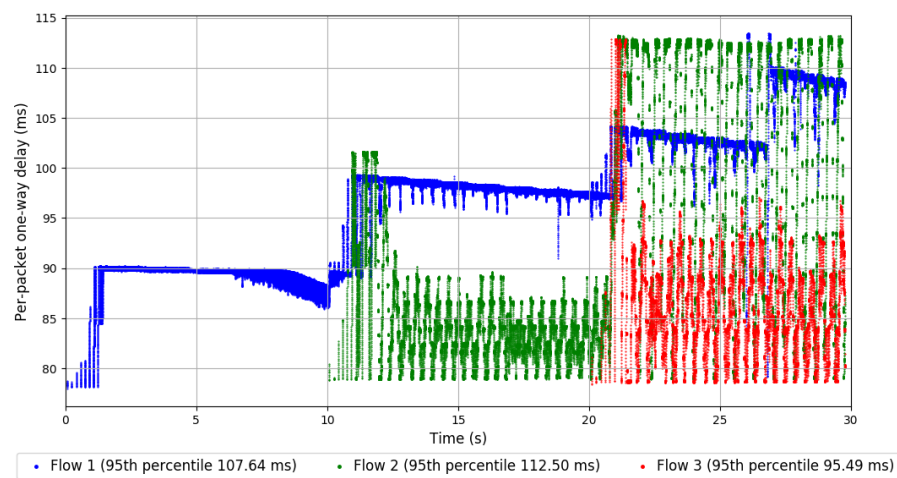
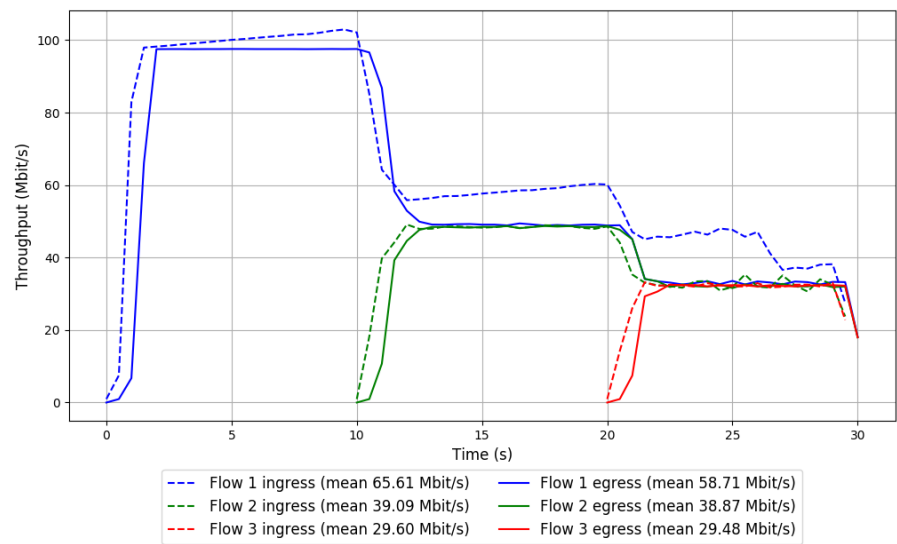


Run 2: Statistics of Indigo

Start at: 2018-07-25 08:12:40
End at: 2018-07-25 08:13:10
Local clock offset: -2.976 ms
Remote clock offset: 11.084 ms

Below is generated by plot.py at 2018-07-25 11:15:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 109.674 ms
Loss rate: 7.67%
-- Flow 1:
Average throughput: 58.71 Mbit/s
95th percentile per-packet one-way delay: 107.642 ms
Loss rate: 11.01%
-- Flow 2:
Average throughput: 38.87 Mbit/s
95th percentile per-packet one-way delay: 112.495 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 29.48 Mbit/s
95th percentile per-packet one-way delay: 95.492 ms
Loss rate: 2.02%

Run 2: Report of Indigo — Data Link

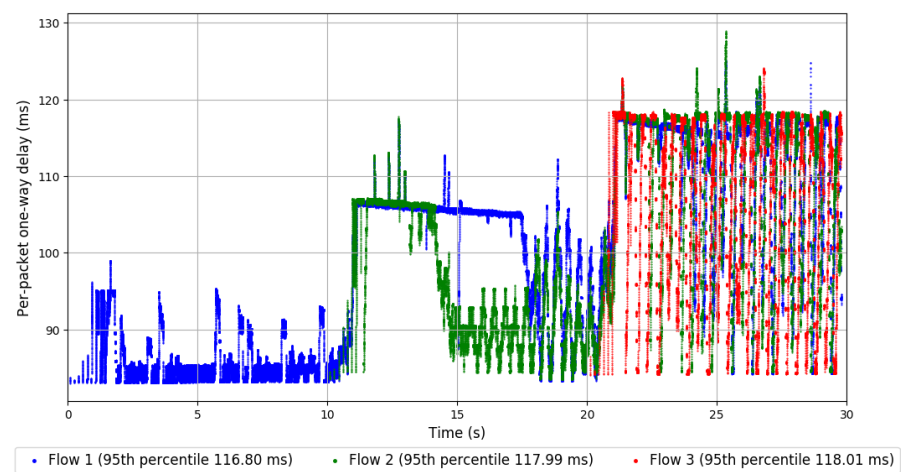
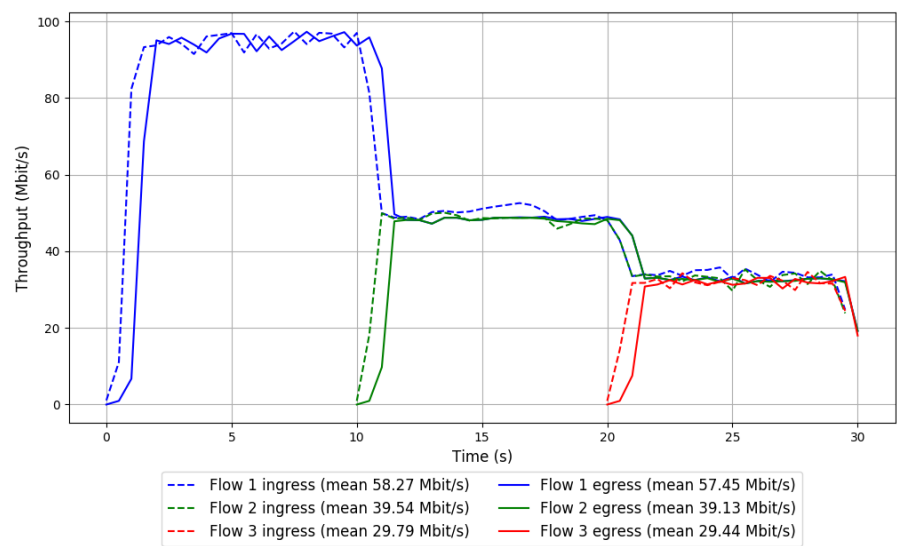


Run 3: Statistics of Indigo

Start at: 2018-07-25 08:33:49
End at: 2018-07-25 08:34:19
Local clock offset: -2.147 ms
Remote clock offset: 11.758 ms

Below is generated by plot.py at 2018-07-25 11:15:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.98 Mbit/s
95th percentile per-packet one-way delay: 117.672 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 57.45 Mbit/s
95th percentile per-packet one-way delay: 116.797 ms
Loss rate: 1.96%
-- Flow 2:
Average throughput: 39.13 Mbit/s
95th percentile per-packet one-way delay: 117.994 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 29.44 Mbit/s
95th percentile per-packet one-way delay: 118.007 ms
Loss rate: 2.81%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-25 08:55:15

End at: 2018-07-25 08:55:45

Local clock offset: -7.173 ms

Remote clock offset: 11.33 ms

Below is generated by plot.py at 2018-07-25 11:15:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.13 Mbit/s

95th percentile per-packet one-way delay: 116.274 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 58.51 Mbit/s

95th percentile per-packet one-way delay: 116.221 ms

Loss rate: 1.94%

-- Flow 2:

Average throughput: 39.21 Mbit/s

95th percentile per-packet one-way delay: 117.246 ms

Loss rate: 1.18%

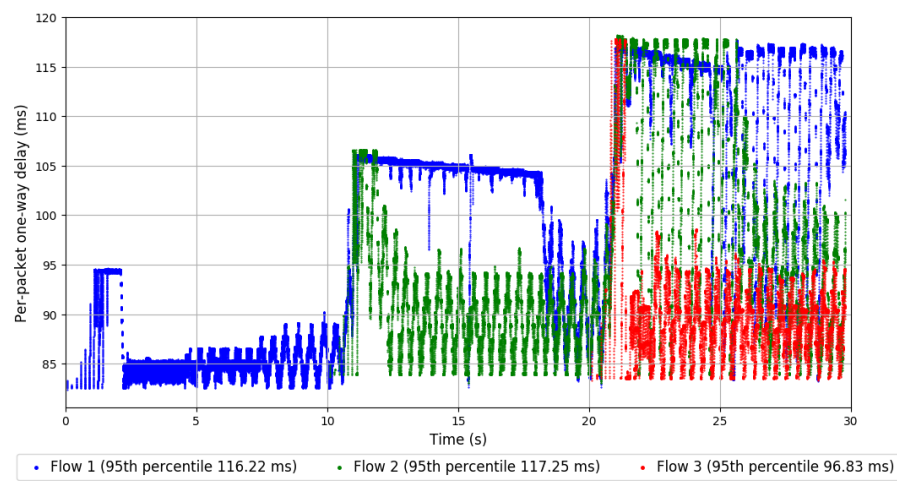
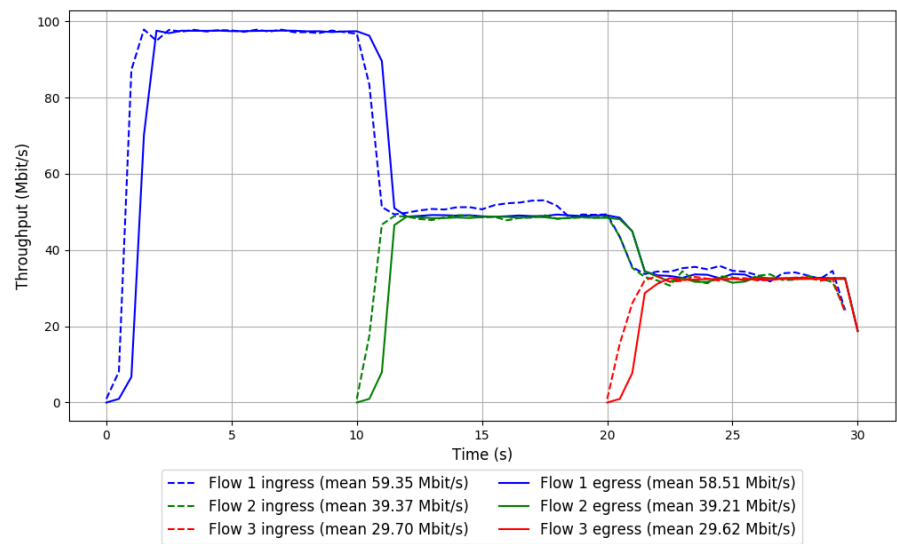
-- Flow 3:

Average throughput: 29.62 Mbit/s

95th percentile per-packet one-way delay: 96.828 ms

Loss rate: 1.88%

Run 4: Report of Indigo — Data Link

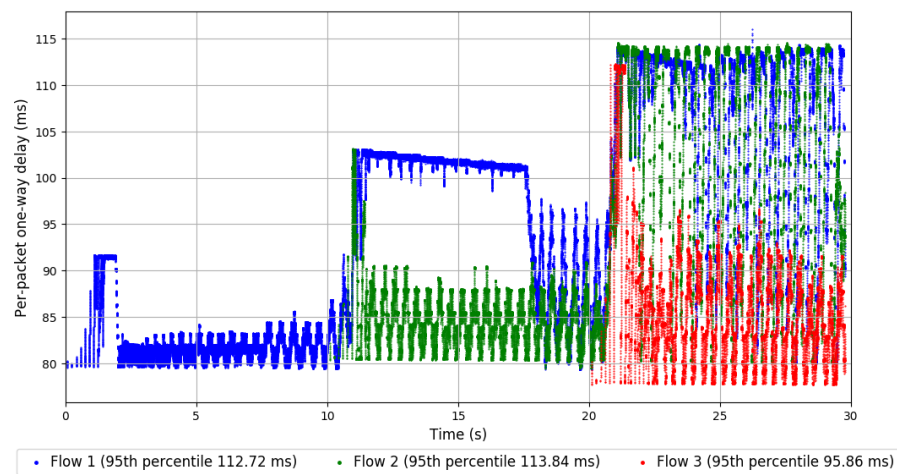
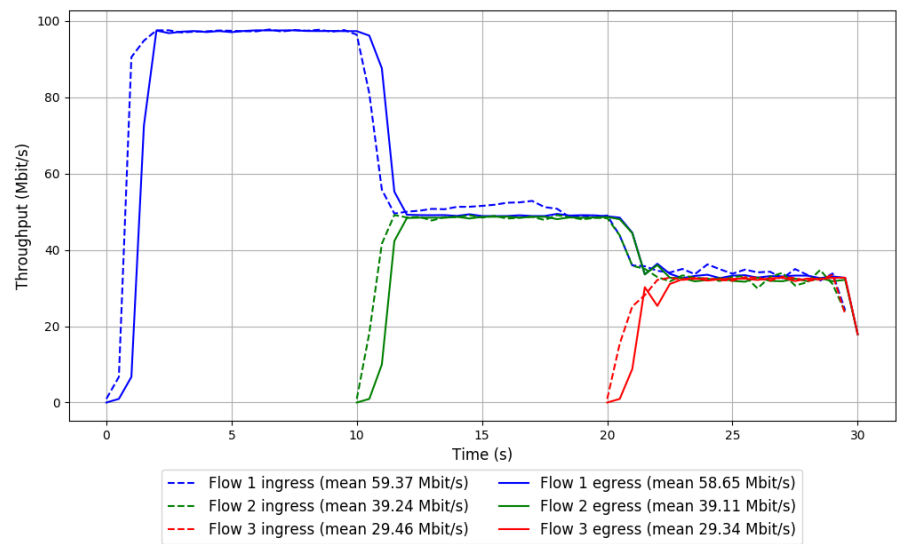


Run 5: Statistics of Indigo

Start at: 2018-07-25 09:16:32
End at: 2018-07-25 09:17:02
Local clock offset: -3.087 ms
Remote clock offset: 14.348 ms

Below is generated by plot.py at 2018-07-25 11:16:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.12 Mbit/s
95th percentile per-packet one-way delay: 113.192 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 58.65 Mbit/s
95th percentile per-packet one-way delay: 112.721 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 39.11 Mbit/s
95th percentile per-packet one-way delay: 113.837 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 29.34 Mbit/s
95th percentile per-packet one-way delay: 95.855 ms
Loss rate: 2.02%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-25 09:37:52

End at: 2018-07-25 09:38:22

Local clock offset: -4.593 ms

Remote clock offset: 1.51 ms

Below is generated by plot.py at 2018-07-25 11:16:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.13 Mbit/s

95th percentile per-packet one-way delay: 119.272 ms

Loss rate: 1.94%

-- Flow 1:

Average throughput: 58.51 Mbit/s

95th percentile per-packet one-way delay: 116.064 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 39.16 Mbit/s

95th percentile per-packet one-way delay: 119.775 ms

Loss rate: 2.05%

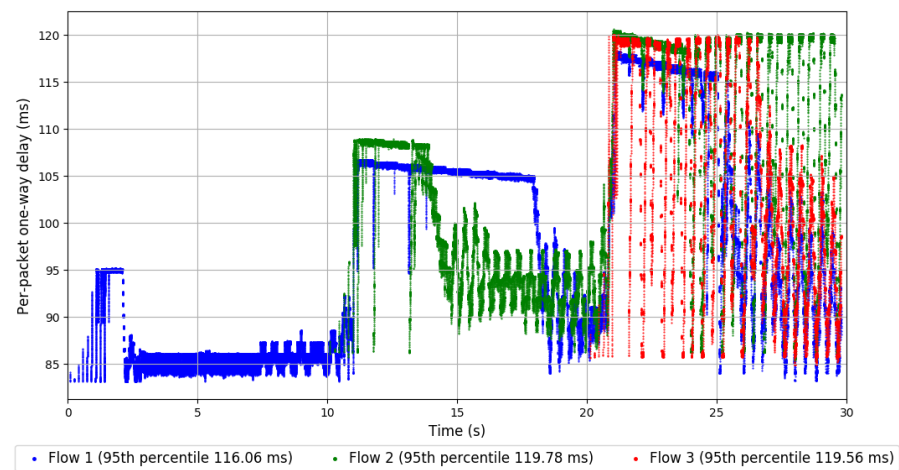
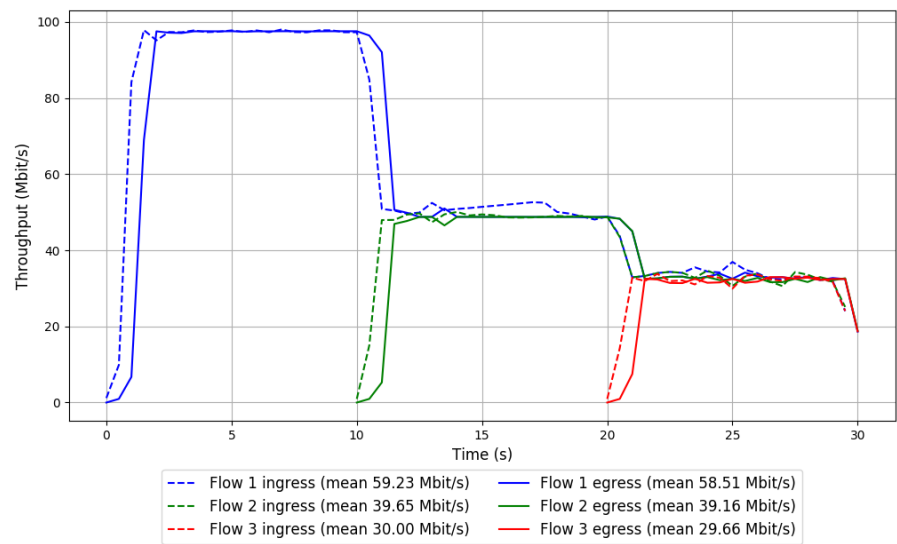
-- Flow 3:

Average throughput: 29.66 Mbit/s

95th percentile per-packet one-way delay: 119.564 ms

Loss rate: 2.76%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-25 09:59:02

End at: 2018-07-25 09:59:32

Local clock offset: -7.453 ms

Remote clock offset: 3.222 ms

Below is generated by plot.py at 2018-07-25 11:16:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.84 Mbit/s

95th percentile per-packet one-way delay: 117.155 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 58.18 Mbit/s

95th percentile per-packet one-way delay: 116.391 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 38.85 Mbit/s

95th percentile per-packet one-way delay: 118.459 ms

Loss rate: 1.38%

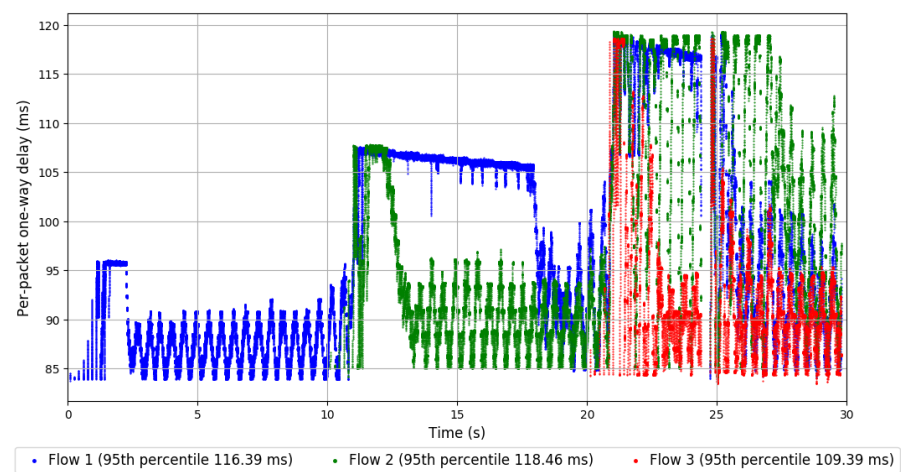
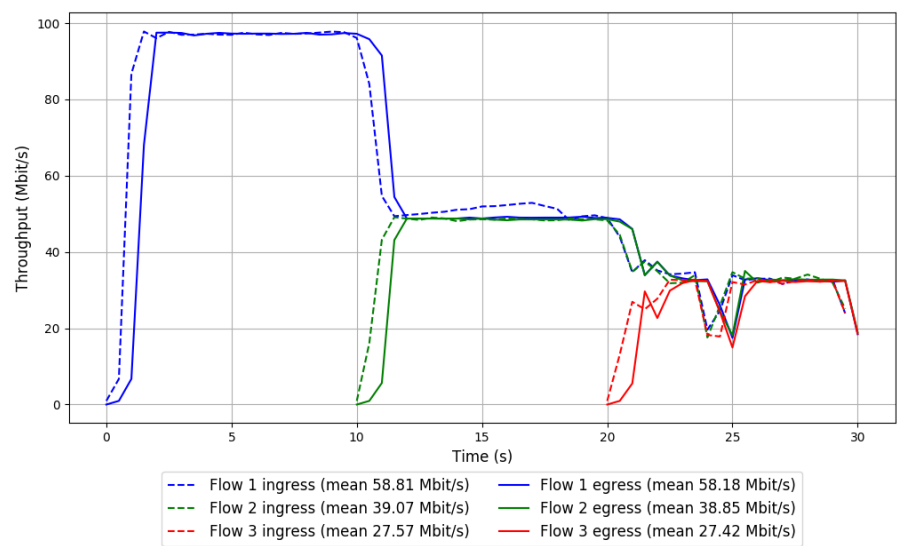
-- Flow 3:

Average throughput: 27.42 Mbit/s

95th percentile per-packet one-way delay: 109.385 ms

Loss rate: 2.18%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-25 10:20:21

End at: 2018-07-25 10:20:51

Local clock offset: -2.551 ms

Remote clock offset: 8.159 ms

Below is generated by plot.py at 2018-07-25 11:16:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 110.922 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 58.55 Mbit/s

95th percentile per-packet one-way delay: 110.581 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 38.99 Mbit/s

95th percentile per-packet one-way delay: 111.154 ms

Loss rate: 1.14%

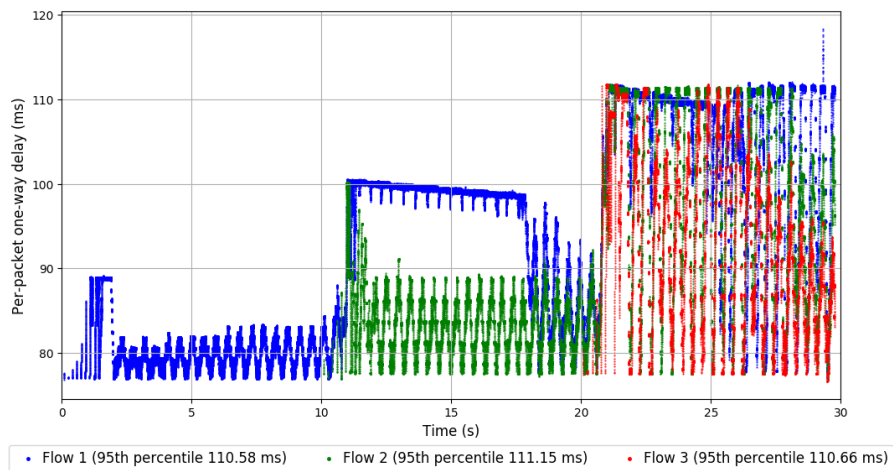
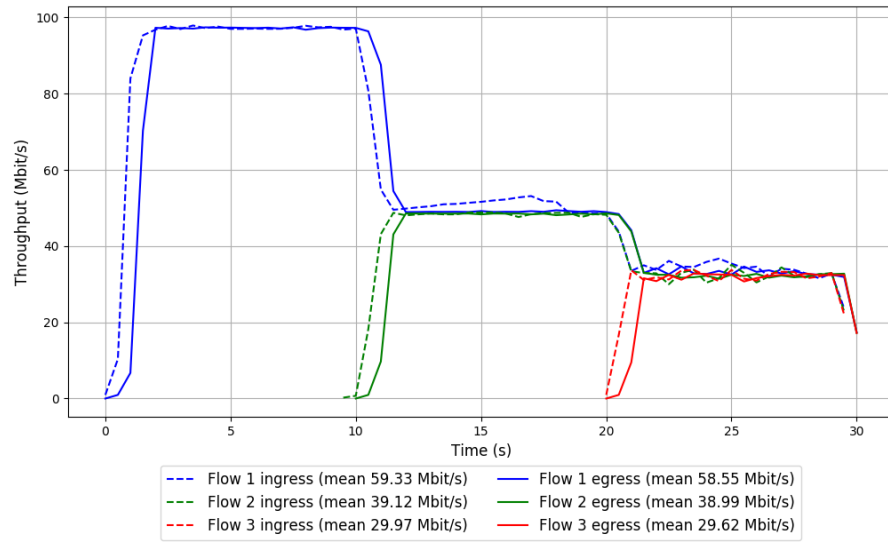
-- Flow 3:

Average throughput: 29.62 Mbit/s

95th percentile per-packet one-way delay: 110.656 ms

Loss rate: 2.78%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-25 10:41:44

End at: 2018-07-25 10:42:14

Local clock offset: -1.739 ms

Remote clock offset: 7.35 ms

Below is generated by plot.py at 2018-07-25 11:16:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 115.305 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 53.02 Mbit/s

95th percentile per-packet one-way delay: 113.791 ms

Loss rate: 2.03%

-- Flow 2:

Average throughput: 35.82 Mbit/s

95th percentile per-packet one-way delay: 115.934 ms

Loss rate: 2.33%

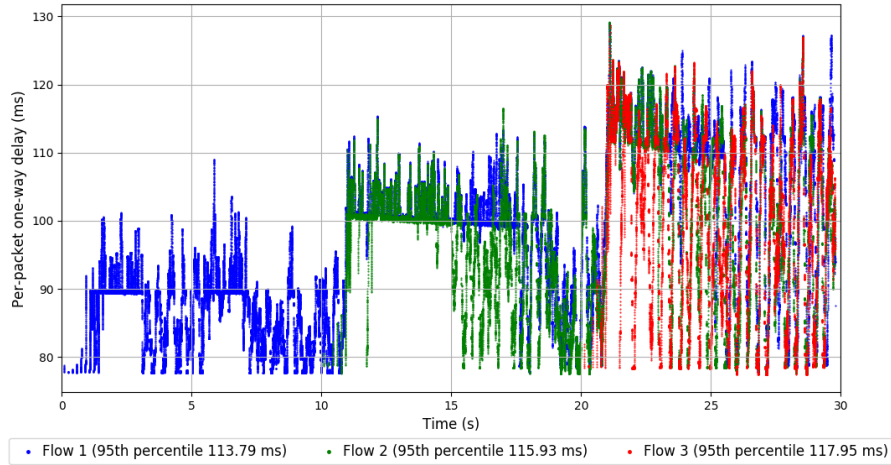
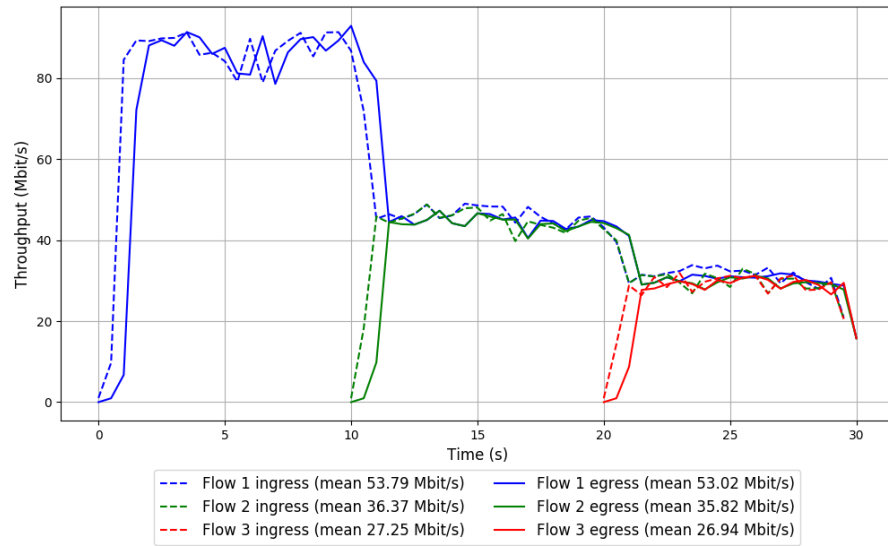
-- Flow 3:

Average throughput: 26.94 Mbit/s

95th percentile per-packet one-way delay: 117.946 ms

Loss rate: 2.77%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-25 11:02:51

End at: 2018-07-25 11:03:21

Local clock offset: -2.068 ms

Remote clock offset: 6.998 ms

Below is generated by plot.py at 2018-07-25 11:16:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.35 Mbit/s

95th percentile per-packet one-way delay: 122.288 ms

Loss rate: 2.14%

-- Flow 1:

Average throughput: 52.05 Mbit/s

95th percentile per-packet one-way delay: 121.714 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 34.13 Mbit/s

95th percentile per-packet one-way delay: 121.761 ms

Loss rate: 1.19%

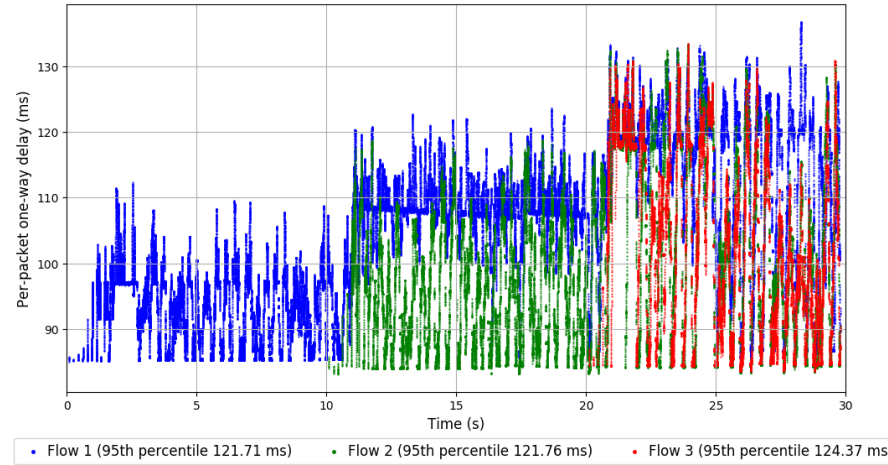
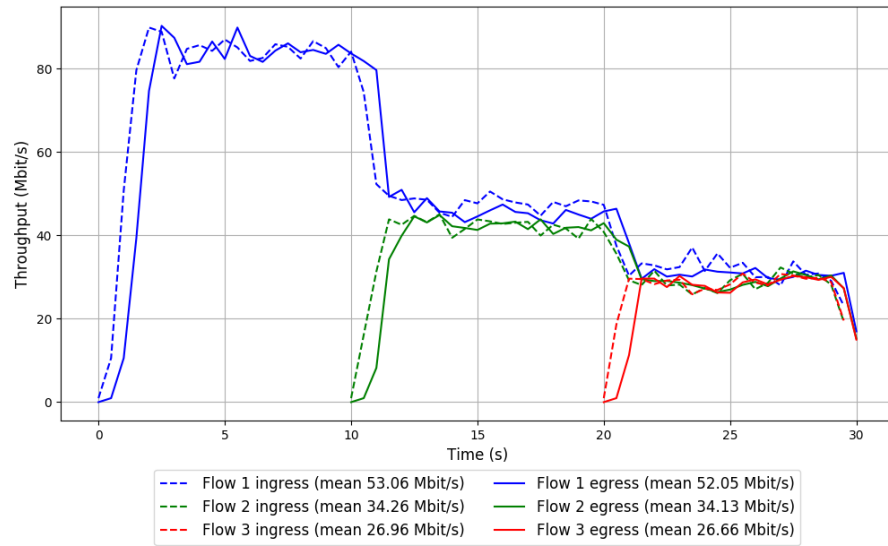
-- Flow 3:

Average throughput: 26.66 Mbit/s

95th percentile per-packet one-way delay: 124.367 ms

Loss rate: 2.75%

Run 10: Report of Indigo — Data Link

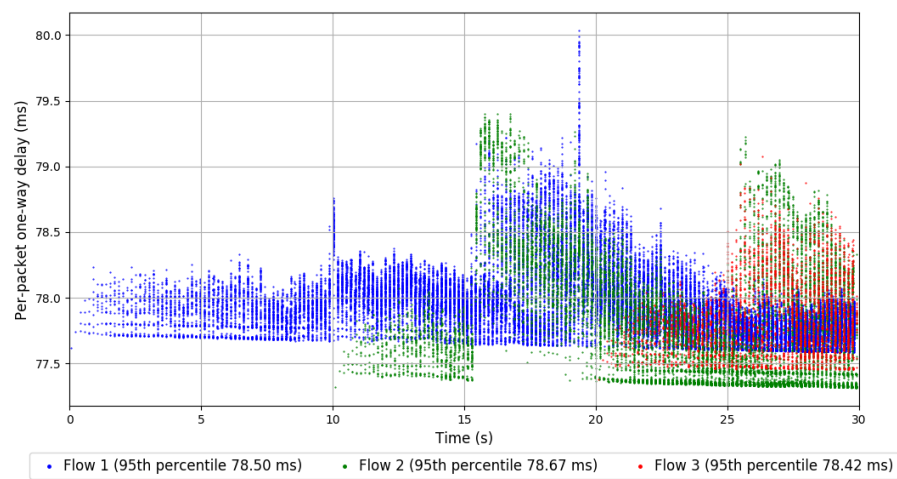
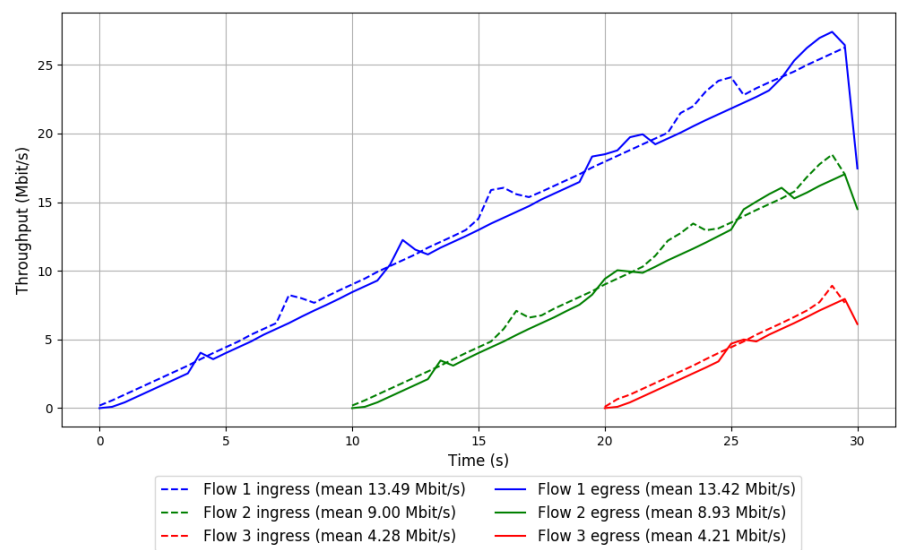


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-25 07:50:22
End at: 2018-07-25 07:50:52
Local clock offset: -7.11 ms
Remote clock offset: 8.14 ms

# Below is generated by plot.py at 2018-07-25 11:16:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.69 Mbit/s
95th percentile per-packet one-way delay: 78.540 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 13.42 Mbit/s
95th percentile per-packet one-way delay: 78.495 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 8.93 Mbit/s
95th percentile per-packet one-way delay: 78.669 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 78.423 ms
Loss rate: 3.17%
```

Run 1: Report of LEDBAT — Data Link

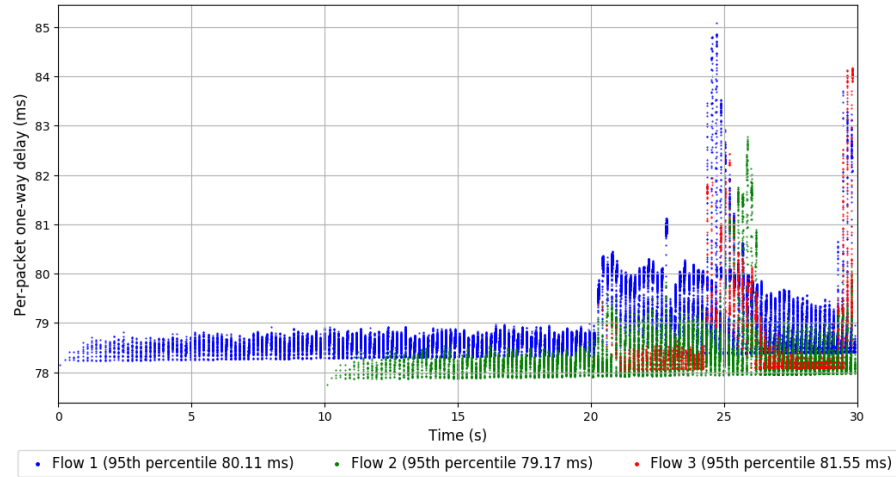
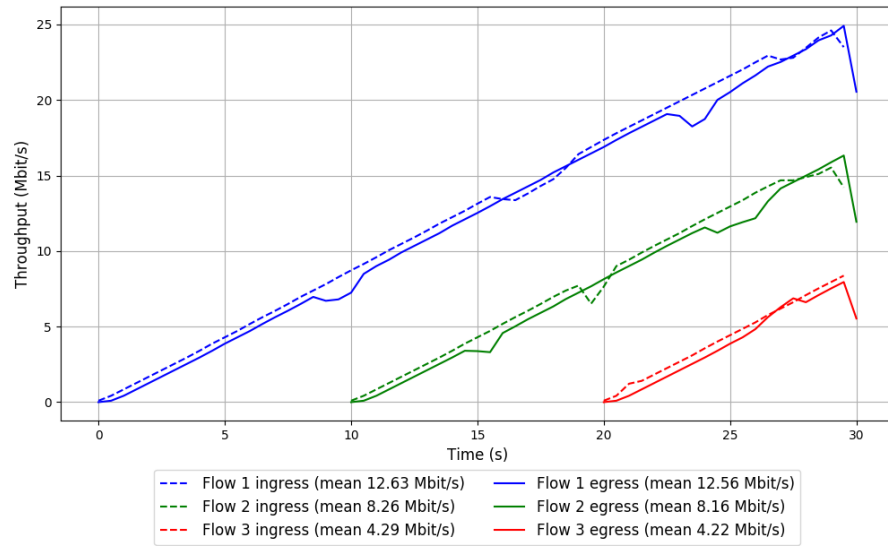


Run 2: Statistics of LEDBAT

Start at: 2018-07-25 08:11:28
End at: 2018-07-25 08:11:58
Local clock offset: -3.178 ms
Remote clock offset: 10.298 ms

Below is generated by plot.py at 2018-07-25 11:16:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.36 Mbit/s
95th percentile per-packet one-way delay: 80.099 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 80.115 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 8.16 Mbit/s
95th percentile per-packet one-way delay: 79.165 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 81.548 ms
Loss rate: 3.35%

Run 2: Report of LEDBAT — Data Link

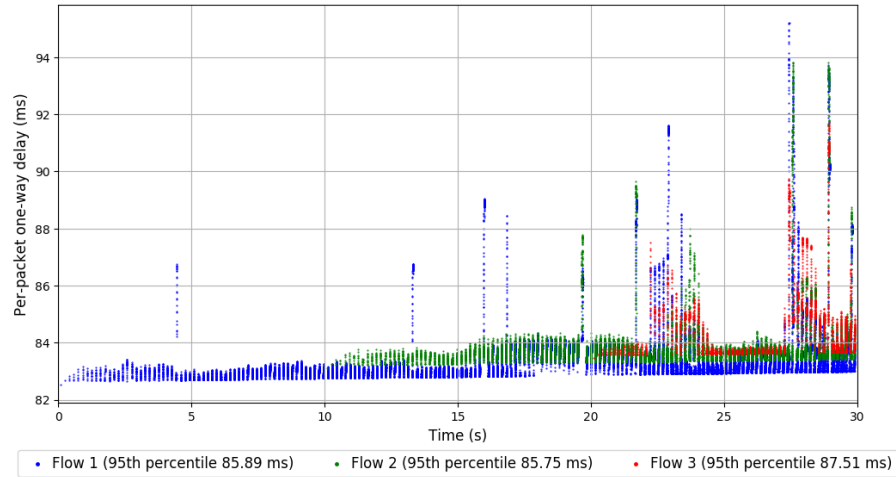
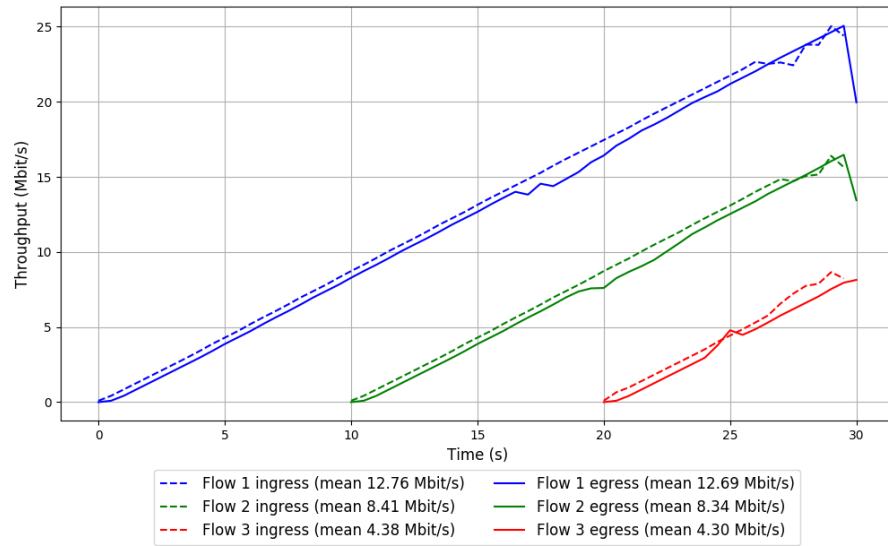


Run 3: Statistics of LEDBAT

Start at: 2018-07-25 08:32:37
End at: 2018-07-25 08:33:07
Local clock offset: -1.458 ms
Remote clock offset: 11.591 ms

Below is generated by plot.py at 2018-07-25 11:16:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.64 Mbit/s
95th percentile per-packet one-way delay: 86.011 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 85.891 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 85.755 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 87.510 ms
Loss rate: 3.26%

Run 3: Report of LEDBAT — Data Link

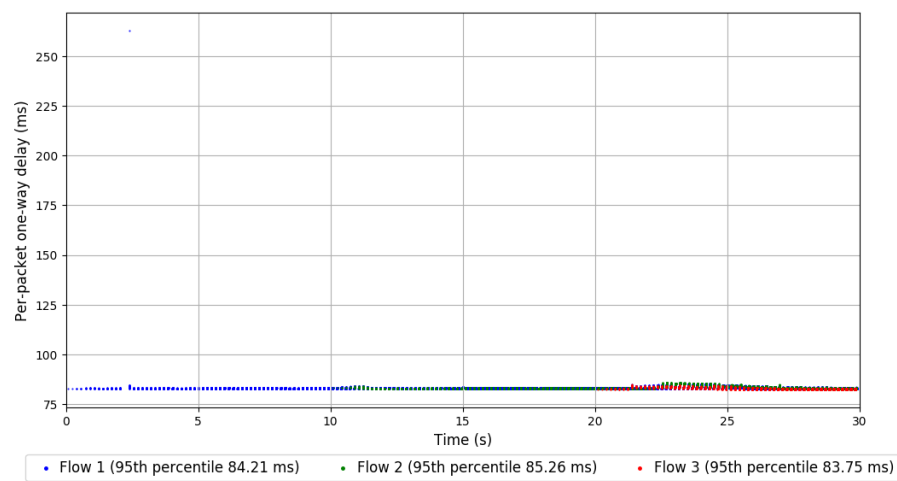
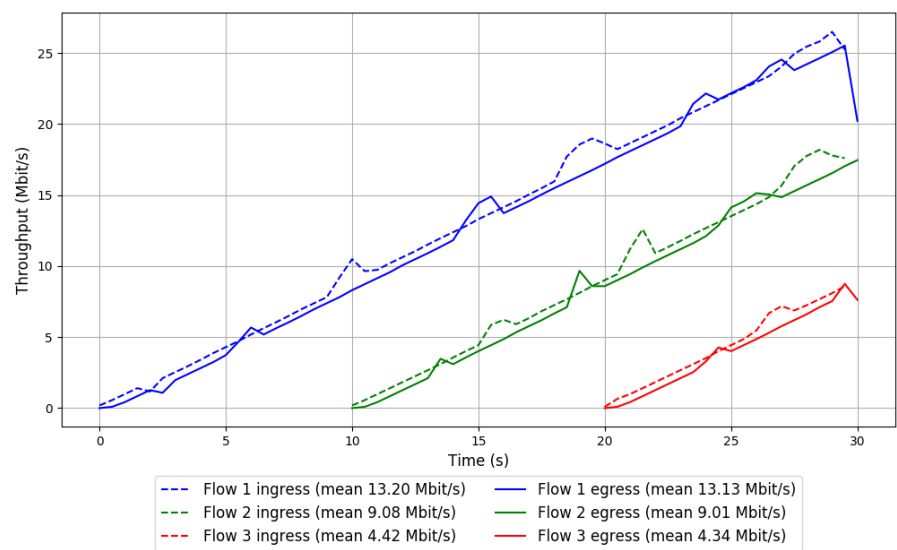


Run 4: Statistics of LEDBAT

Start at: 2018-07-25 08:54:03
End at: 2018-07-25 08:54:33
Local clock offset: -7.154 ms
Remote clock offset: 11.296 ms

Below is generated by plot.py at 2018-07-25 11:16:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.53 Mbit/s
95th percentile per-packet one-way delay: 84.317 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 13.13 Mbit/s
95th percentile per-packet one-way delay: 84.213 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 9.01 Mbit/s
95th percentile per-packet one-way delay: 85.259 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 83.748 ms
Loss rate: 3.32%

Run 4: Report of LEDBAT — Data Link

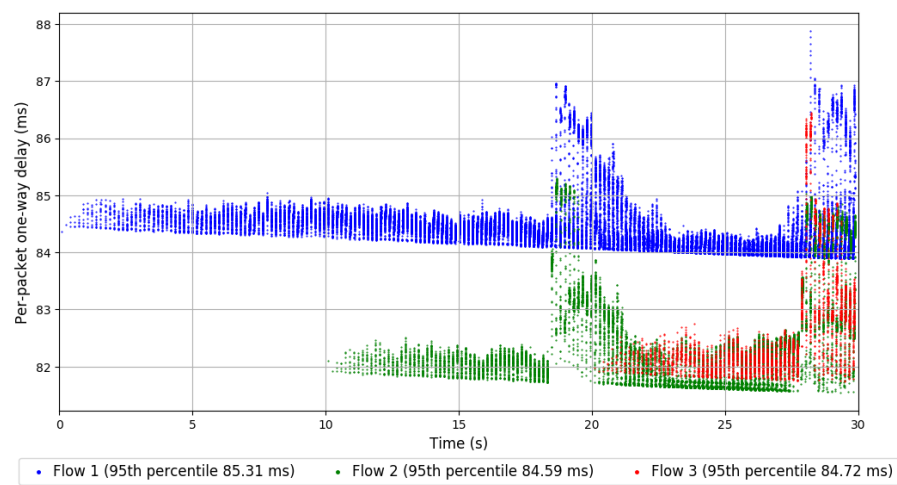
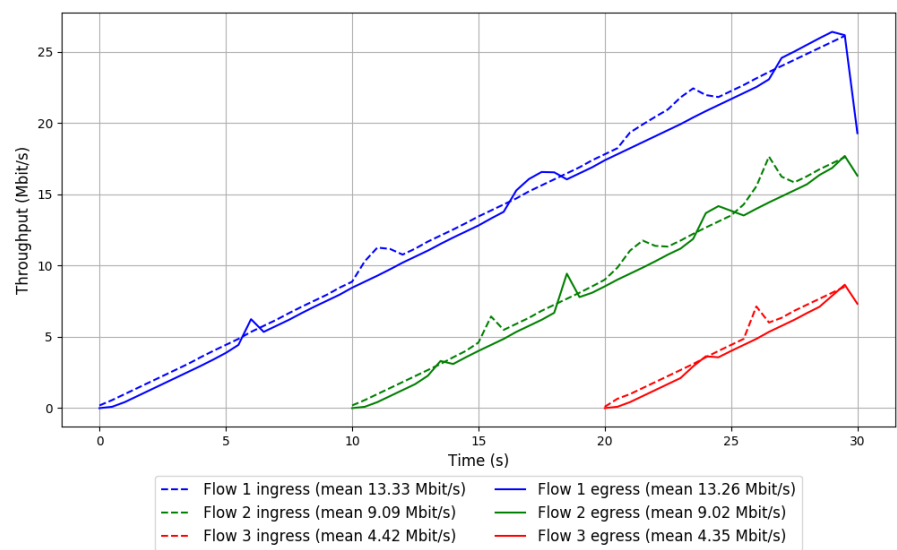


Run 5: Statistics of LEDBAT

Start at: 2018-07-25 09:15:20
End at: 2018-07-25 09:15:50
Local clock offset: -3.235 ms
Remote clock offset: 10.566 ms

Below is generated by plot.py at 2018-07-25 11:16:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.66 Mbit/s
95th percentile per-packet one-way delay: 84.922 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 13.26 Mbit/s
95th percentile per-packet one-way delay: 85.310 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 9.02 Mbit/s
95th percentile per-packet one-way delay: 84.586 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 84.718 ms
Loss rate: 3.29%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-25 09:36:40

End at: 2018-07-25 09:37:10

Local clock offset: -4.231 ms

Remote clock offset: 5.501 ms

Below is generated by plot.py at 2018-07-25 11:16:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.65 Mbit/s

95th percentile per-packet one-way delay: 80.337 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 13.27 Mbit/s

95th percentile per-packet one-way delay: 80.399 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 80.208 ms

Loss rate: 1.63%

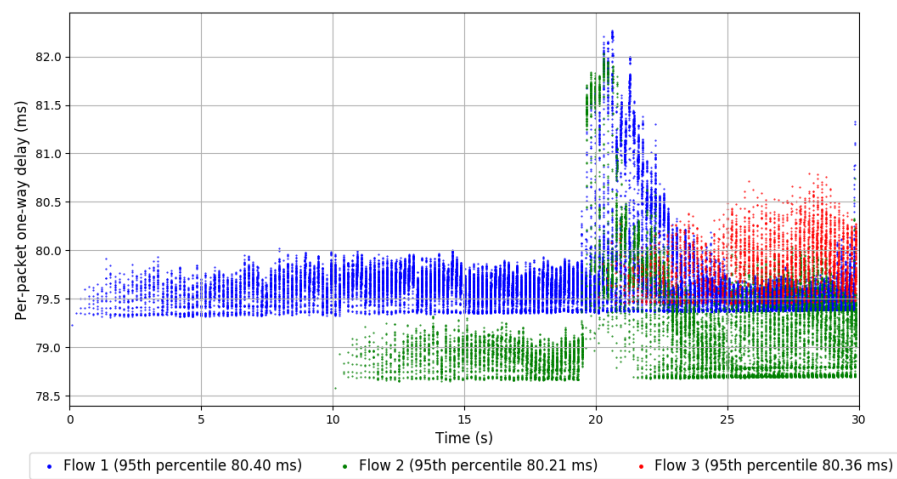
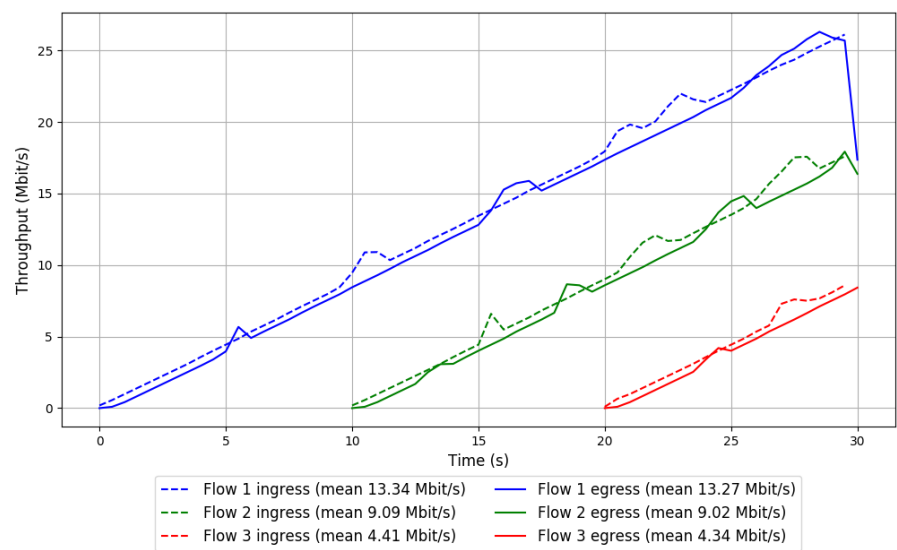
-- Flow 3:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 80.355 ms

Loss rate: 3.32%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-25 09:57:49

End at: 2018-07-25 09:58:20

Local clock offset: -7.385 ms

Remote clock offset: 7.002 ms

Below is generated by plot.py at 2018-07-25 11:16:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 81.149 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 81.210 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.89 Mbit/s

95th percentile per-packet one-way delay: 80.657 ms

Loss rate: 1.64%

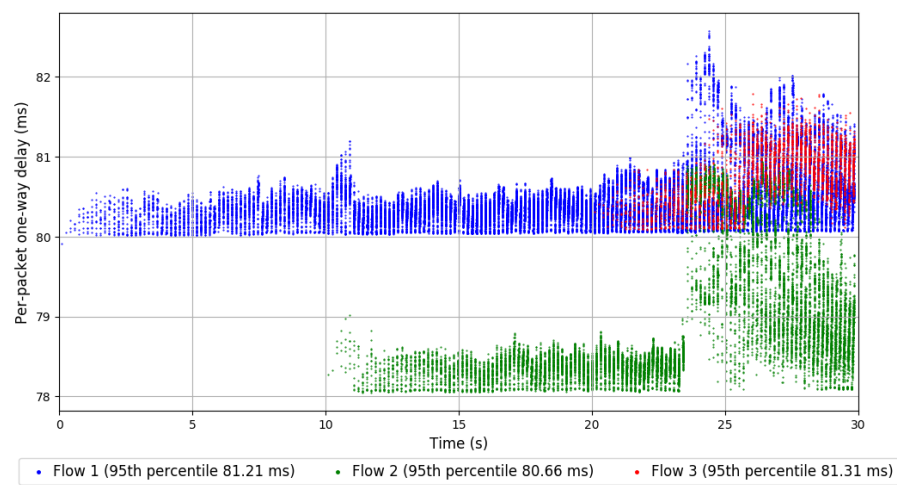
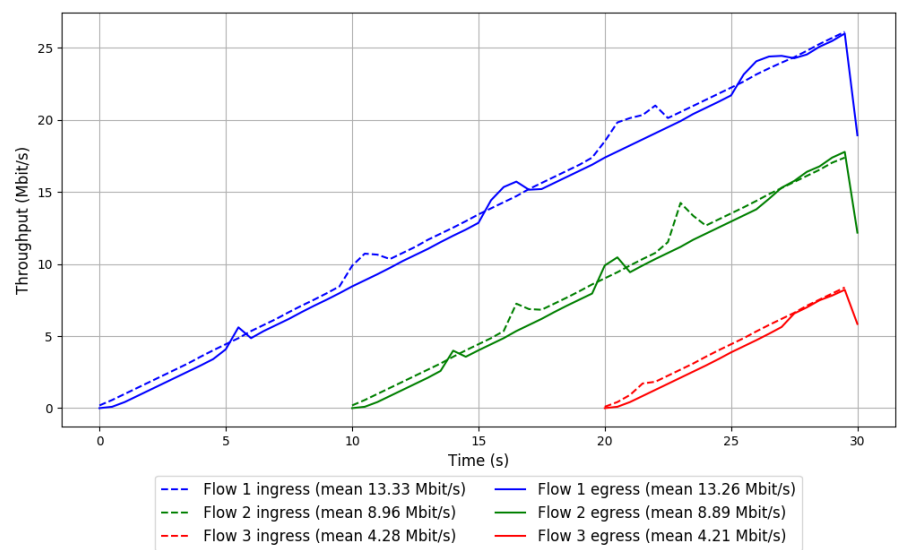
-- Flow 3:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 81.308 ms

Loss rate: 3.35%

Run 7: Report of LEDBAT — Data Link

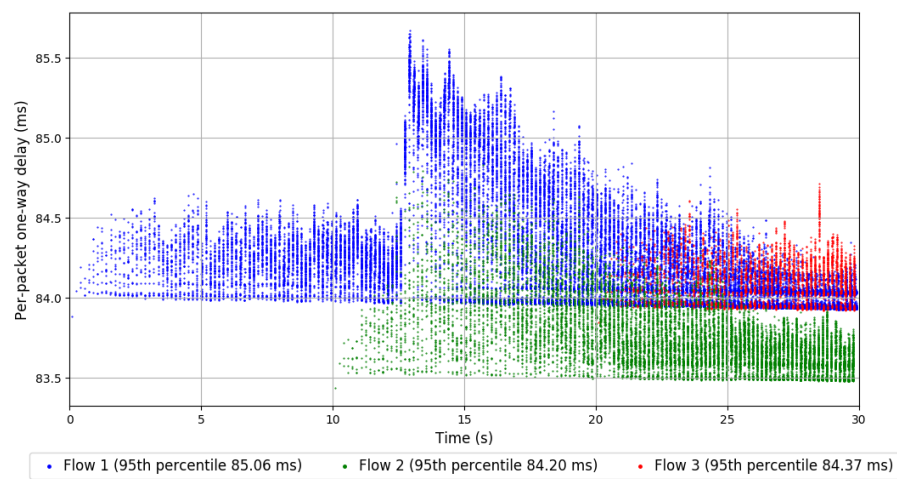
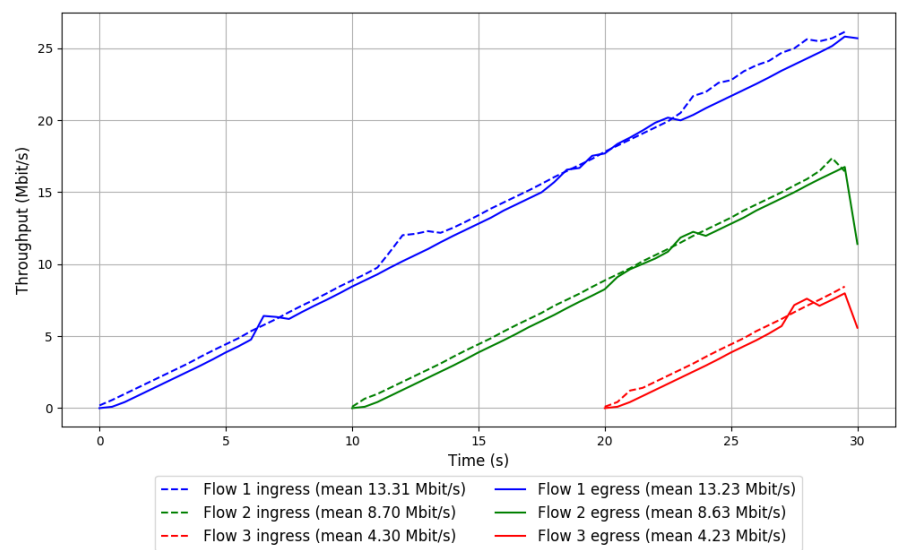


Run 8: Statistics of LEDBAT

Start at: 2018-07-25 10:19:08
End at: 2018-07-25 10:19:38
Local clock offset: -2.666 ms
Remote clock offset: 3.35 ms

Below is generated by plot.py at 2018-07-25 11:17:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.30 Mbit/s
95th percentile per-packet one-way delay: 84.917 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 85.062 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 8.63 Mbit/s
95th percentile per-packet one-way delay: 84.204 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 84.369 ms
Loss rate: 3.37%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-25 10:40:32

End at: 2018-07-25 10:41:02

Local clock offset: -1.757 ms

Remote clock offset: 7.308 ms

Below is generated by plot.py at 2018-07-25 11:17:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.66 Mbit/s

95th percentile per-packet one-way delay: 81.327 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 12.40 Mbit/s

95th percentile per-packet one-way delay: 81.249 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 81.709 ms

Loss rate: 1.63%

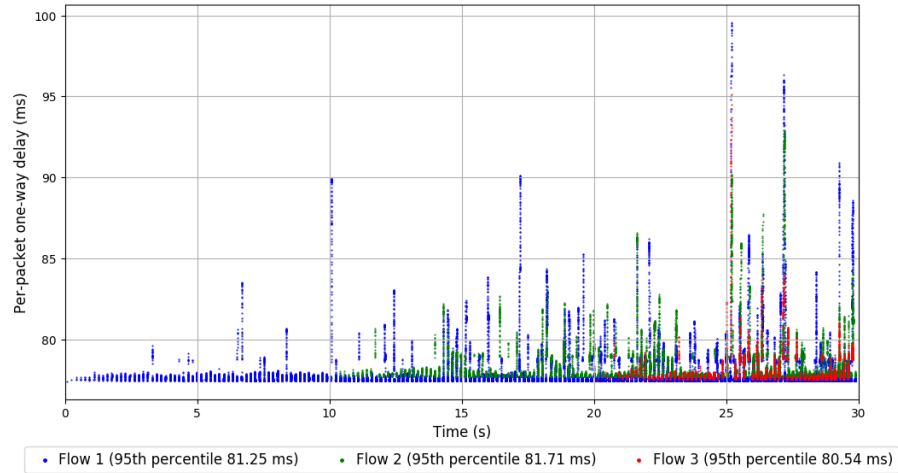
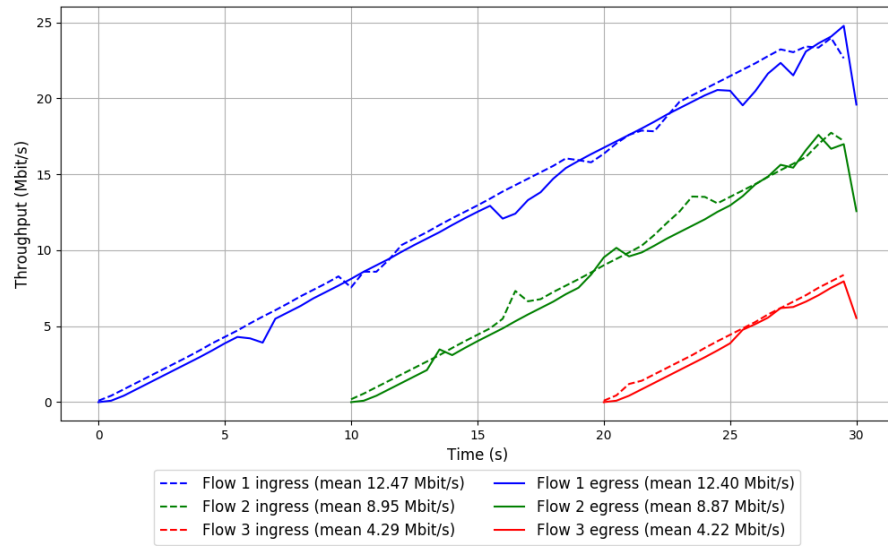
-- Flow 3:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 80.539 ms

Loss rate: 3.35%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-25 11:01:39

End at: 2018-07-25 11:02:09

Local clock offset: -1.296 ms

Remote clock offset: 7.419 ms

Below is generated by plot.py at 2018-07-25 11:17:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.64 Mbit/s

95th percentile per-packet one-way delay: 86.150 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 13.44 Mbit/s

95th percentile per-packet one-way delay: 86.344 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 8.71 Mbit/s

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

Loss rate: 1.62%

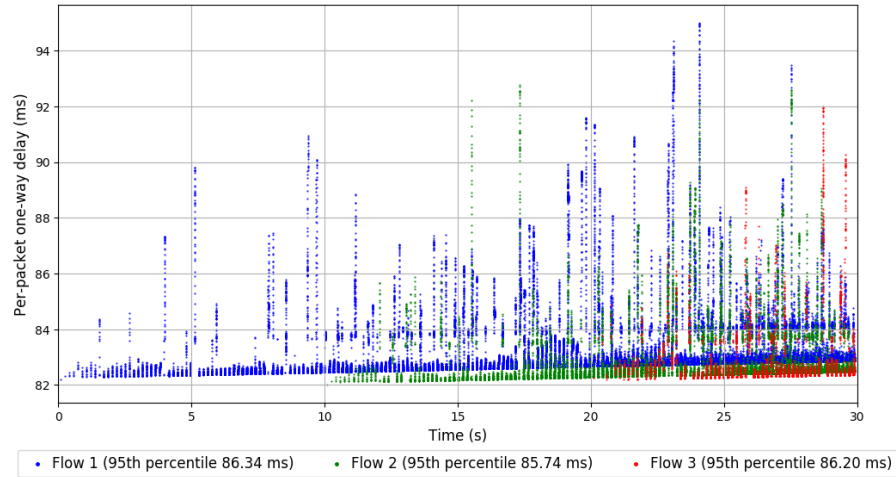
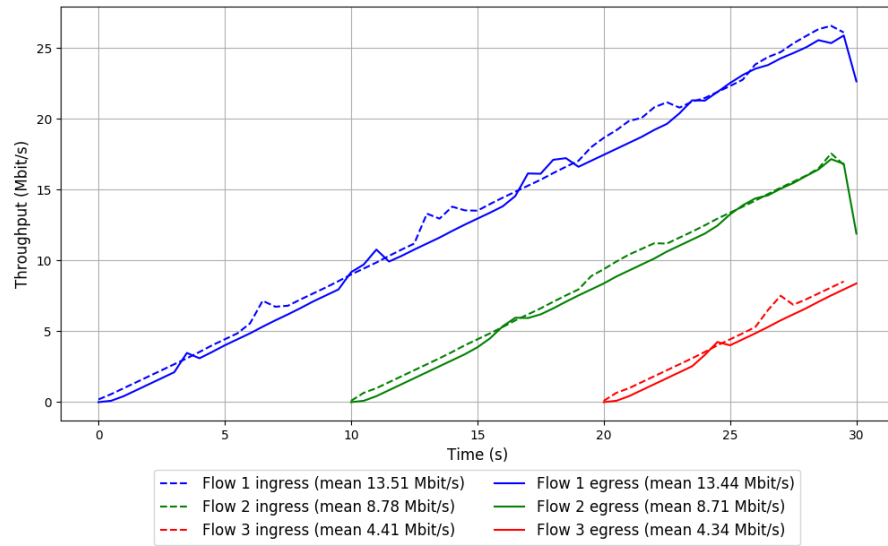
-- Flow 3:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 86.204 ms

Loss rate: 3.30%

Run 10: Report of LEDBAT — Data Link

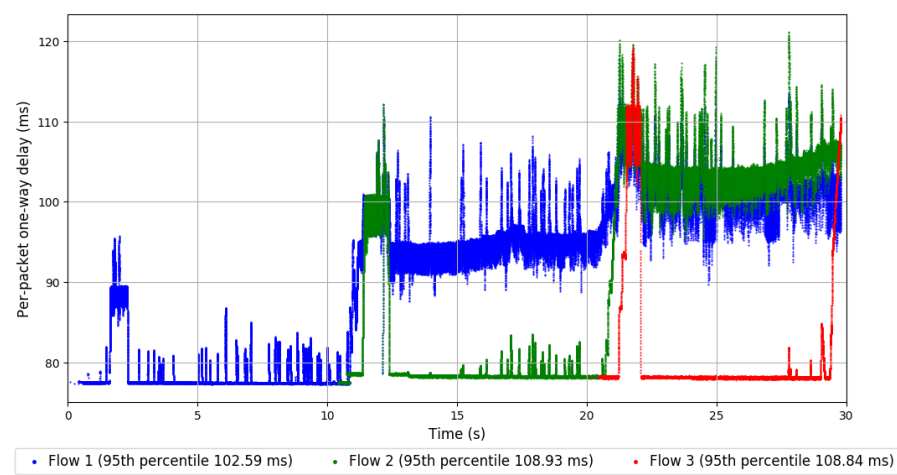
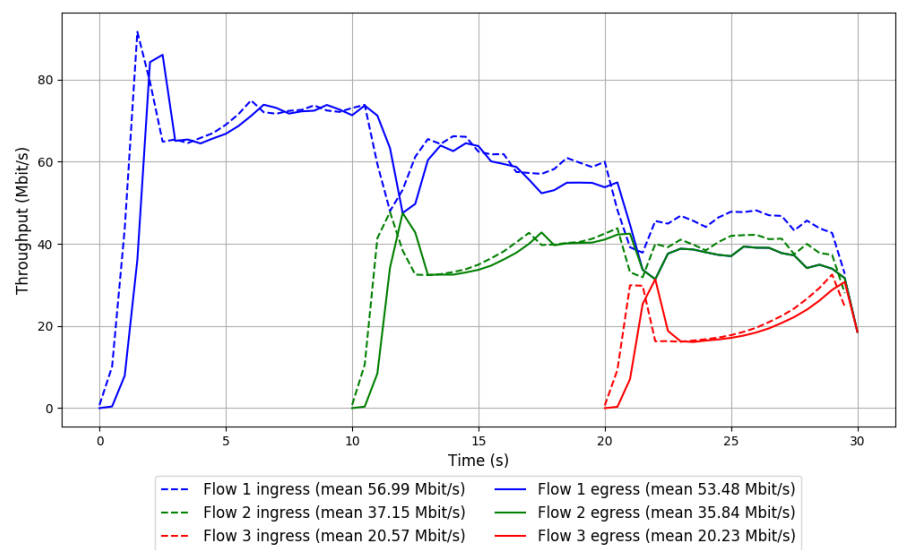


Run 1: Statistics of PCC-Allegro

Start at: 2018-07-25 07:37:56
End at: 2018-07-25 07:38:26
Local clock offset: -7.068 ms
Remote clock offset: 13.695 ms

Below is generated by plot.py at 2018-07-25 11:17:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.85 Mbit/s
95th percentile per-packet one-way delay: 105.928 ms
Loss rate: 5.75%
-- Flow 1:
Average throughput: 53.48 Mbit/s
95th percentile per-packet one-way delay: 102.587 ms
Loss rate: 6.67%
-- Flow 2:
Average throughput: 35.84 Mbit/s
95th percentile per-packet one-way delay: 108.928 ms
Loss rate: 4.32%
-- Flow 3:
Average throughput: 20.23 Mbit/s
95th percentile per-packet one-way delay: 108.845 ms
Loss rate: 3.26%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-25 07:59:02

End at: 2018-07-25 07:59:32

Local clock offset: -7.153 ms

Remote clock offset: 6.335 ms

Below is generated by plot.py at 2018-07-25 11:17:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 108.763 ms

Loss rate: 5.90%

-- Flow 1:

Average throughput: 55.66 Mbit/s

95th percentile per-packet one-way delay: 104.981 ms

Loss rate: 6.56%

-- Flow 2:

Average throughput: 34.42 Mbit/s

95th percentile per-packet one-way delay: 109.764 ms

Loss rate: 4.84%

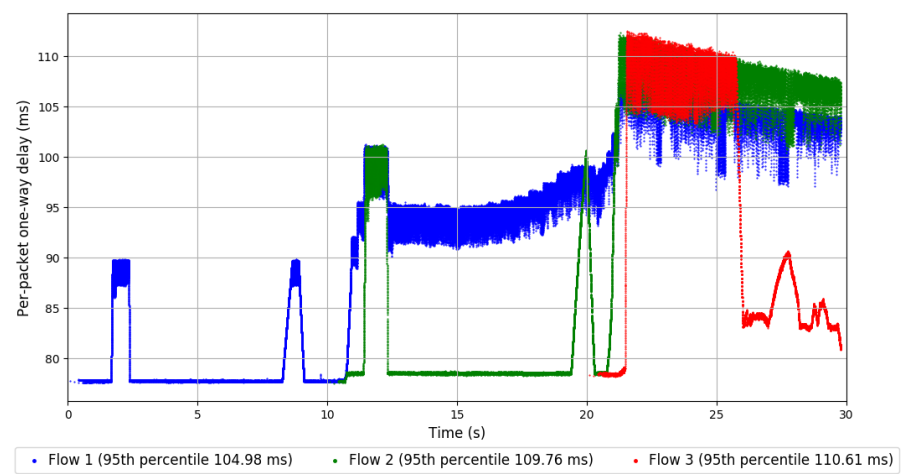
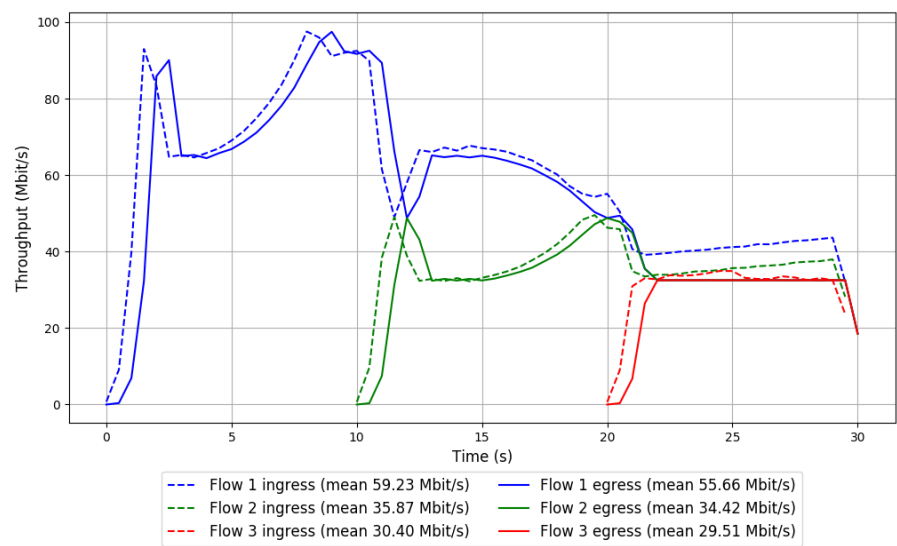
-- Flow 3:

Average throughput: 29.51 Mbit/s

95th percentile per-packet one-way delay: 110.612 ms

Loss rate: 4.52%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-25 08:20:11

End at: 2018-07-25 08:20:41

Local clock offset: -1.745 ms

Remote clock offset: 9.195 ms

Below is generated by plot.py at 2018-07-25 11:17:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.01 Mbit/s

95th percentile per-packet one-way delay: 113.793 ms

Loss rate: 6.02%

-- Flow 1:

Average throughput: 55.09 Mbit/s

95th percentile per-packet one-way delay: 109.972 ms

Loss rate: 6.60%

-- Flow 2:

Average throughput: 35.10 Mbit/s

95th percentile per-packet one-way delay: 114.699 ms

Loss rate: 5.16%

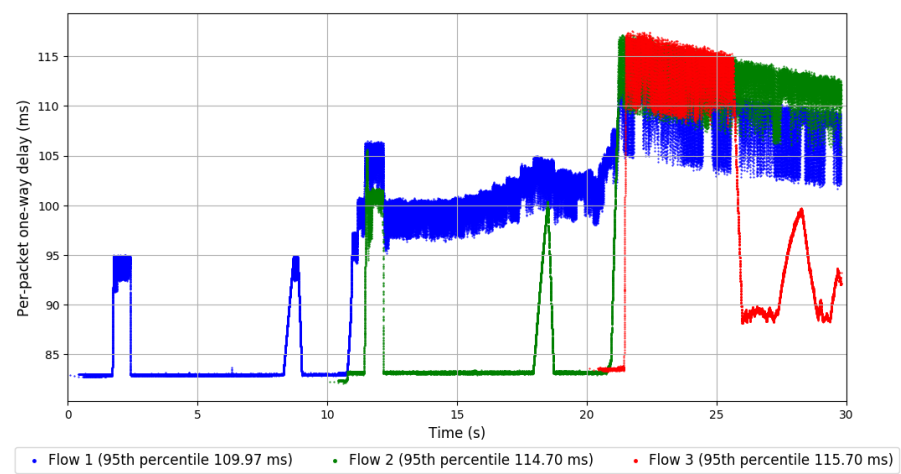
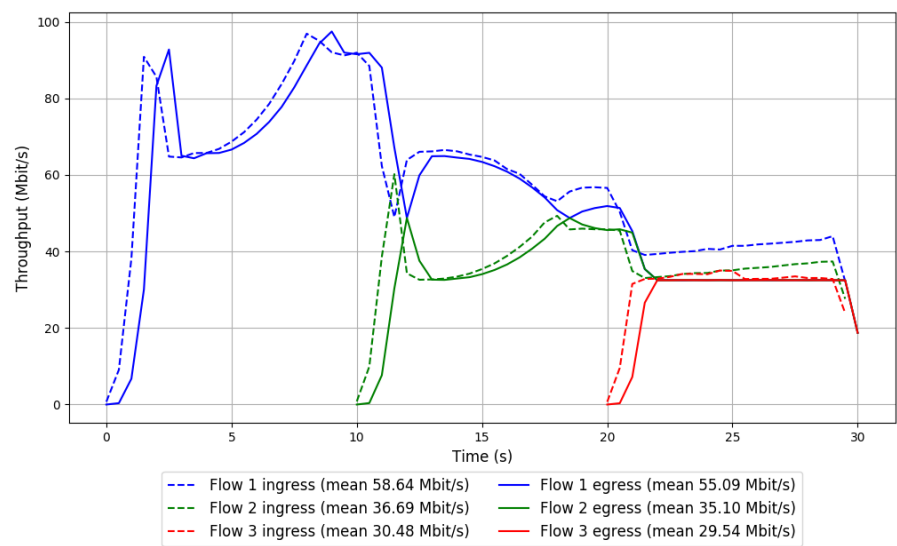
-- Flow 3:

Average throughput: 29.54 Mbit/s

95th percentile per-packet one-way delay: 115.696 ms

Loss rate: 4.69%

Run 3: Report of PCC-Allegro — Data Link

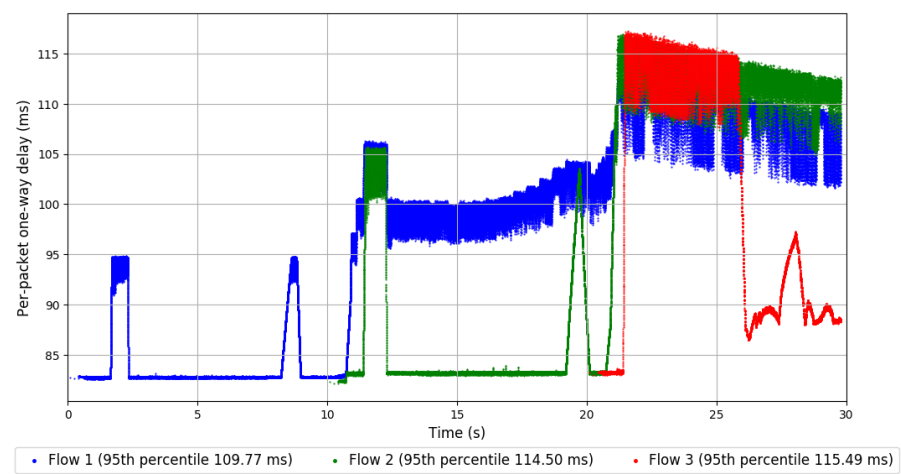
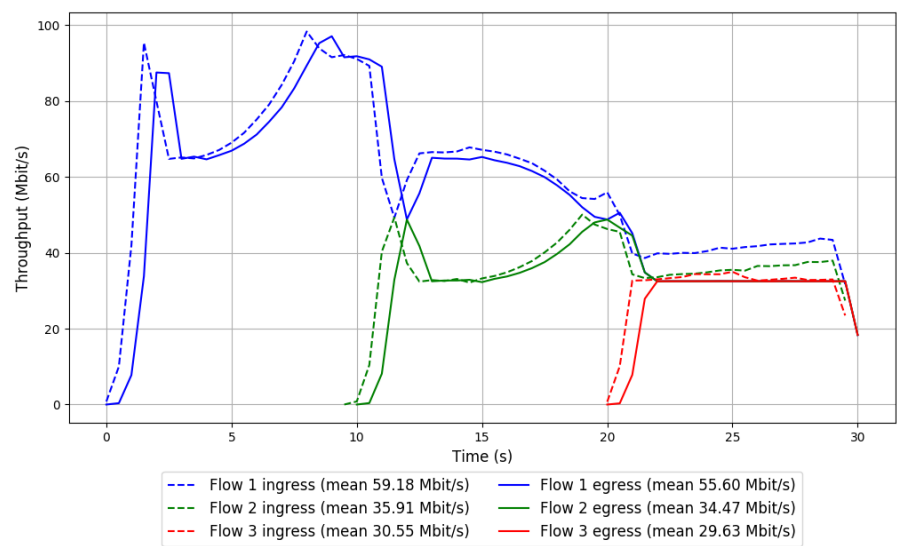


Run 4: Statistics of PCC-Allegro

Start at: 2018-07-25 08:41:26
End at: 2018-07-25 08:41:56
Local clock offset: -5.172 ms
Remote clock offset: 12.228 ms

```
# Below is generated by plot.py at 2018-07-25 11:17:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.13 Mbit/s
95th percentile per-packet one-way delay: 113.607 ms
Loss rate: 5.90%
-- Flow 1:
Average throughput: 55.60 Mbit/s
95th percentile per-packet one-way delay: 109.765 ms
Loss rate: 6.56%
-- Flow 2:
Average throughput: 34.47 Mbit/s
95th percentile per-packet one-way delay: 114.505 ms
Loss rate: 4.82%
-- Flow 3:
Average throughput: 29.63 Mbit/s
95th percentile per-packet one-way delay: 115.489 ms
Loss rate: 4.59%
```

Run 4: Report of PCC-Allegro — Data Link

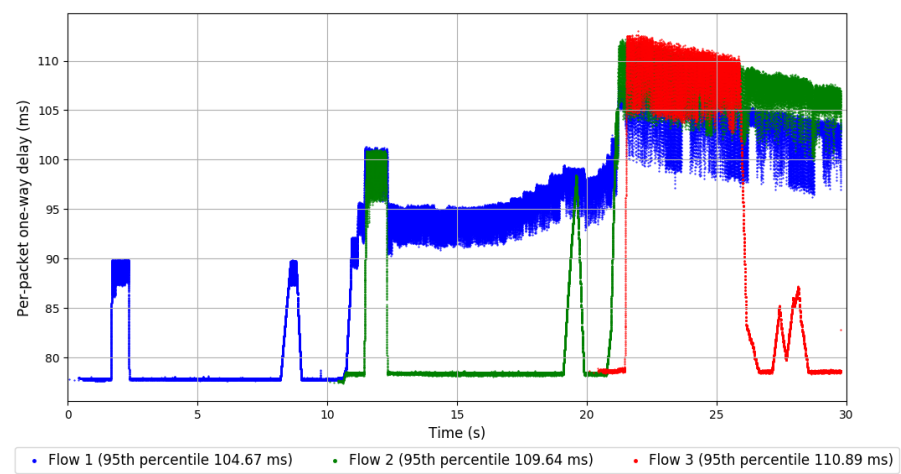
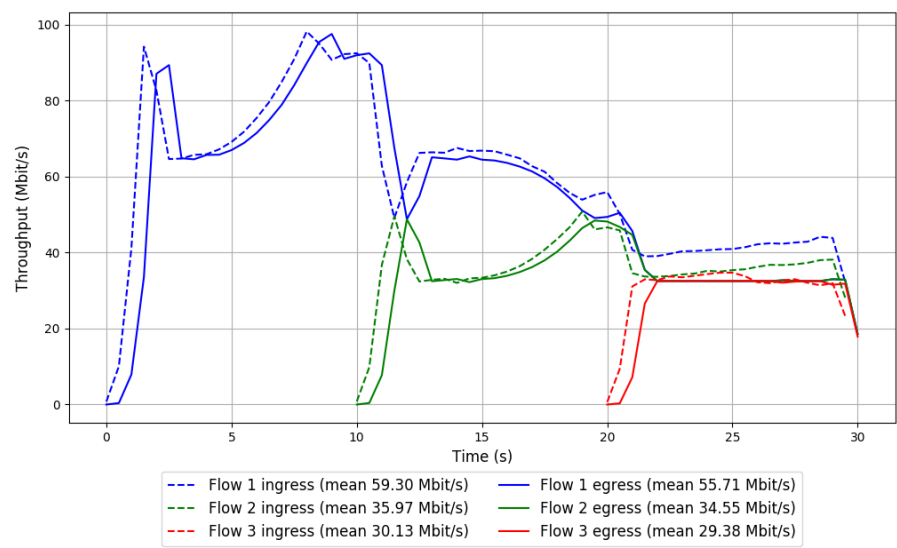


Run 5: Statistics of PCC-Allegro

Start at: 2018-07-25 09:02:45
End at: 2018-07-25 09:03:15
Local clock offset: -6.809 ms
Remote clock offset: 16.384 ms

Below is generated by plot.py at 2018-07-25 11:17:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.20 Mbit/s
95th percentile per-packet one-way delay: 108.809 ms
Loss rate: 5.84%
-- Flow 1:
Average throughput: 55.71 Mbit/s
95th percentile per-packet one-way delay: 104.674 ms
Loss rate: 6.58%
-- Flow 2:
Average throughput: 34.55 Mbit/s
95th percentile per-packet one-way delay: 109.637 ms
Loss rate: 4.75%
-- Flow 3:
Average throughput: 29.38 Mbit/s
95th percentile per-packet one-way delay: 110.890 ms
Loss rate: 4.07%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-25 09:24:02

End at: 2018-07-25 09:24:32

Local clock offset: -2.342 ms

Remote clock offset: 5.982 ms

Below is generated by plot.py at 2018-07-25 11:18:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 114.605 ms

Loss rate: 5.27%

-- Flow 1:

Average throughput: 55.38 Mbit/s

95th percentile per-packet one-way delay: 109.059 ms

Loss rate: 5.86%

-- Flow 2:

Average throughput: 35.21 Mbit/s

95th percentile per-packet one-way delay: 115.904 ms

Loss rate: 4.31%

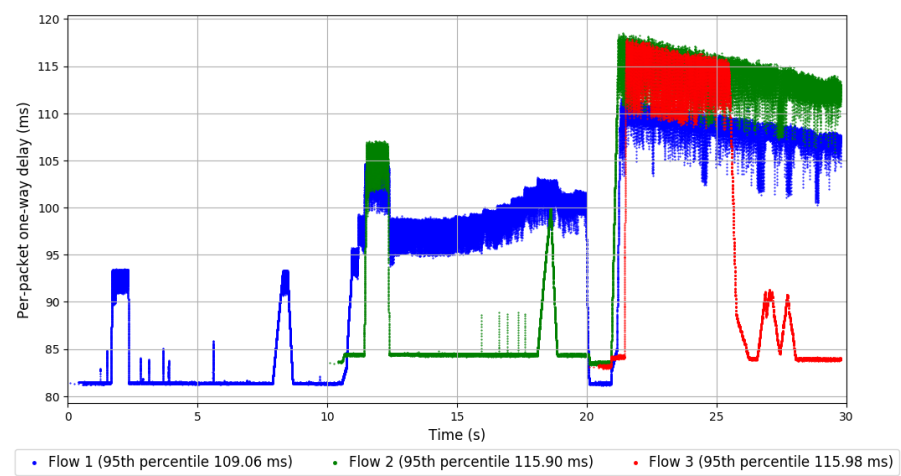
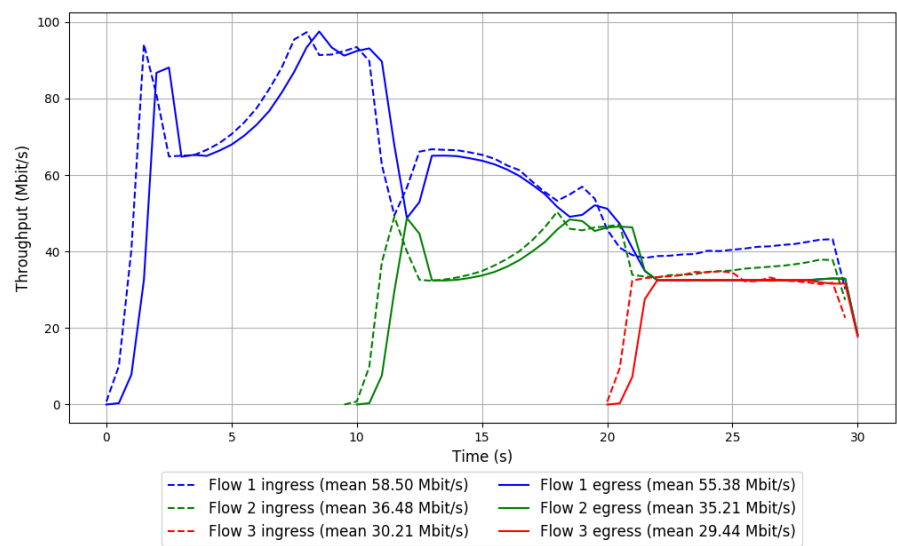
-- Flow 3:

Average throughput: 29.44 Mbit/s

95th percentile per-packet one-way delay: 115.979 ms

Loss rate: 4.16%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-25 09:45:23

End at: 2018-07-25 09:45:53

Local clock offset: -6.301 ms

Remote clock offset: 6.579 ms

Below is generated by plot.py at 2018-07-25 11:18:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 110.348 ms

Loss rate: 5.83%

-- Flow 1:

Average throughput: 55.26 Mbit/s

95th percentile per-packet one-way delay: 103.571 ms

Loss rate: 6.60%

-- Flow 2:

Average throughput: 35.00 Mbit/s

95th percentile per-packet one-way delay: 111.487 ms

Loss rate: 4.41%

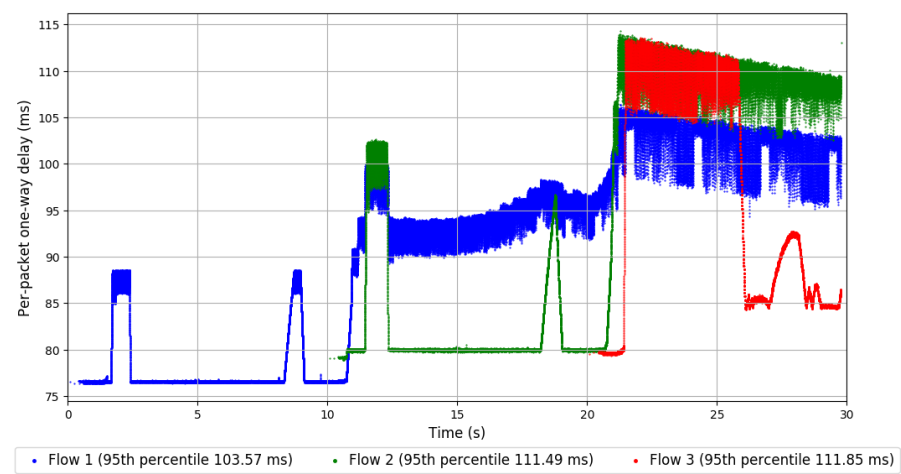
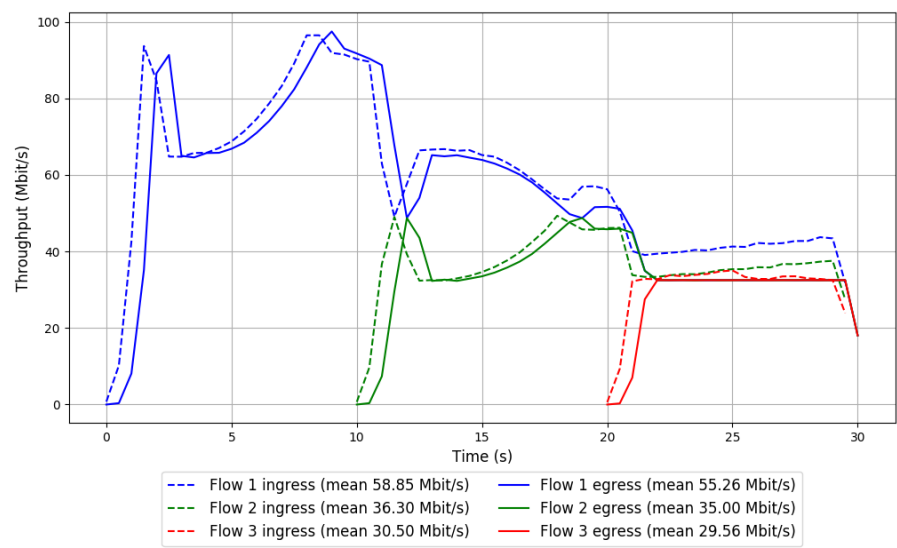
-- Flow 3:

Average throughput: 29.56 Mbit/s

95th percentile per-packet one-way delay: 111.847 ms

Loss rate: 4.70%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-25 10:06:41

End at: 2018-07-25 10:07:11

Local clock offset: -5.202 ms

Remote clock offset: 6.165 ms

Below is generated by plot.py at 2018-07-25 11:18:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.62 Mbit/s

95th percentile per-packet one-way delay: 112.296 ms

Loss rate: 3.95%

-- Flow 1:

Average throughput: 55.74 Mbit/s

95th percentile per-packet one-way delay: 109.032 ms

Loss rate: 3.72%

-- Flow 2:

Average throughput: 35.06 Mbit/s

95th percentile per-packet one-way delay: 113.632 ms

Loss rate: 4.43%

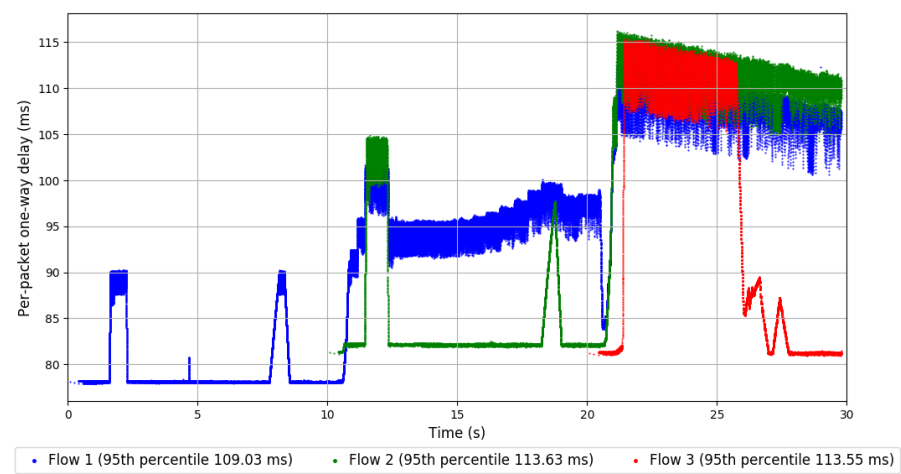
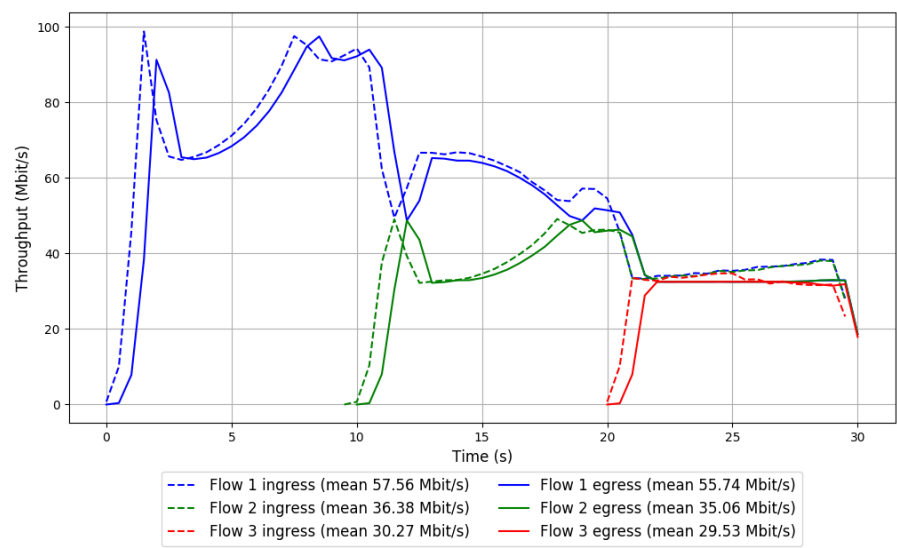
-- Flow 3:

Average throughput: 29.53 Mbit/s

95th percentile per-packet one-way delay: 113.554 ms

Loss rate: 4.08%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-25 10:27:49

End at: 2018-07-25 10:28:19

Local clock offset: -1.943 ms

Remote clock offset: 7.283 ms

Below is generated by plot.py at 2018-07-25 11:18:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.24 Mbit/s

95th percentile per-packet one-way delay: 108.451 ms

Loss rate: 5.86%

-- Flow 1:

Average throughput: 55.32 Mbit/s

95th percentile per-packet one-way delay: 106.583 ms

Loss rate: 6.61%

-- Flow 2:

Average throughput: 35.22 Mbit/s

95th percentile per-packet one-way delay: 110.050 ms

Loss rate: 4.34%

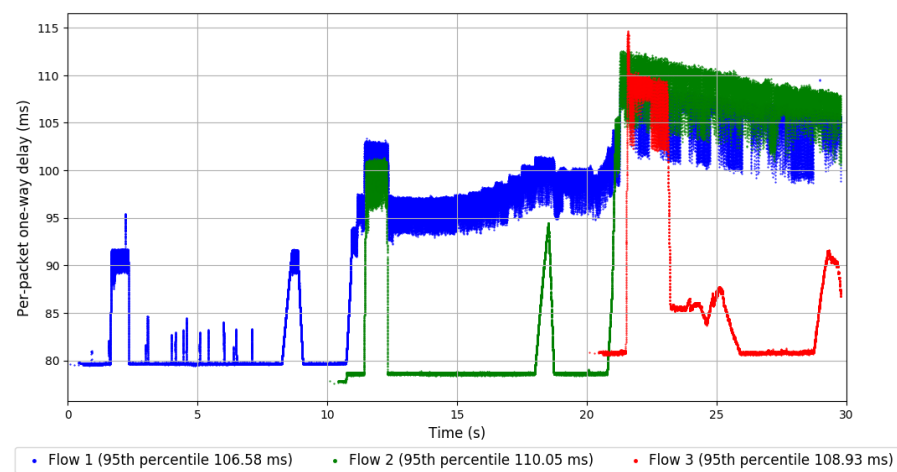
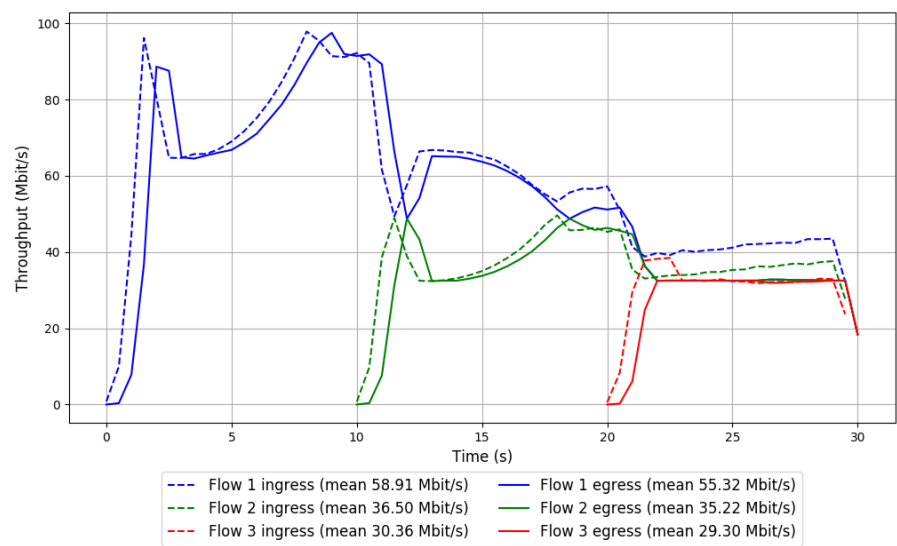
-- Flow 3:

Average throughput: 29.30 Mbit/s

95th percentile per-packet one-way delay: 108.933 ms

Loss rate: 5.10%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-25 10:49:12

End at: 2018-07-25 10:49:42

Local clock offset: -1.562 ms

Remote clock offset: 3.377 ms

Below is generated by plot.py at 2018-07-25 11:18:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.11 Mbit/s

95th percentile per-packet one-way delay: 113.408 ms

Loss rate: 5.24%

-- Flow 1:

Average throughput: 50.13 Mbit/s

95th percentile per-packet one-way delay: 110.217 ms

Loss rate: 7.00%

-- Flow 2:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 117.864 ms

Loss rate: 1.73%

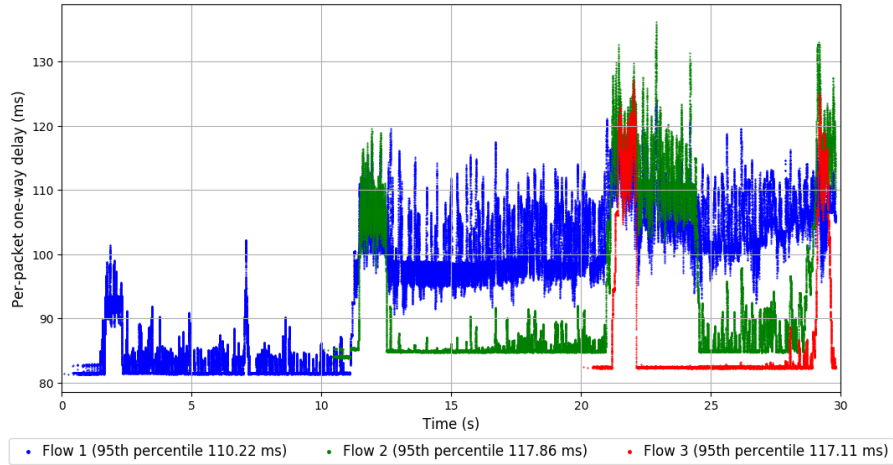
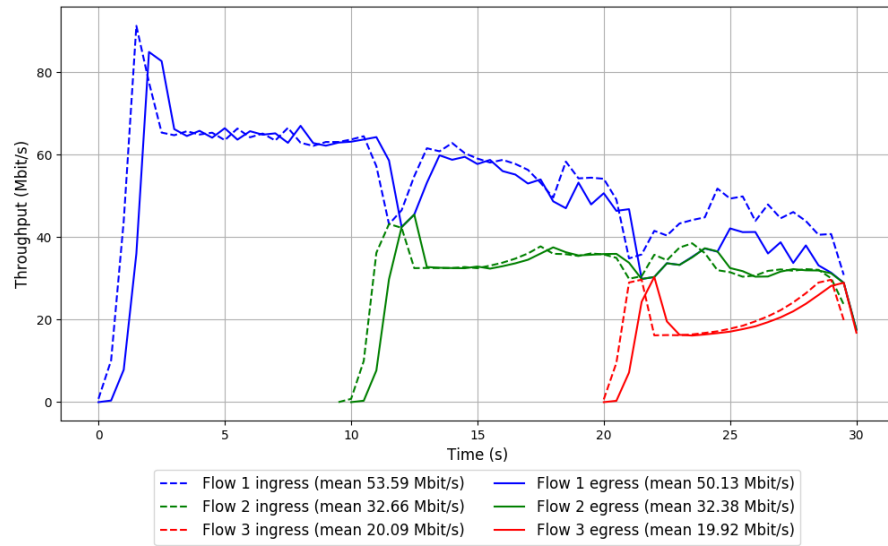
-- Flow 3:

Average throughput: 19.92 Mbit/s

95th percentile per-packet one-way delay: 117.107 ms

Loss rate: 2.47%

Run 10: Report of PCC-Allegro — Data Link

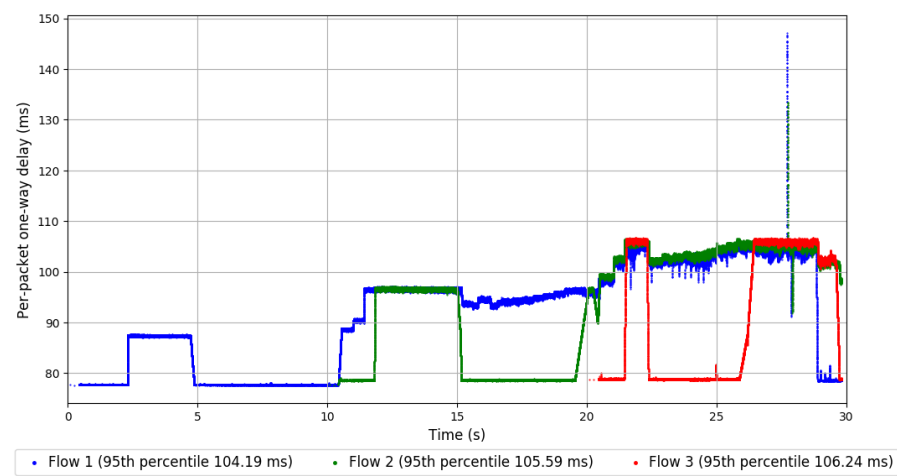
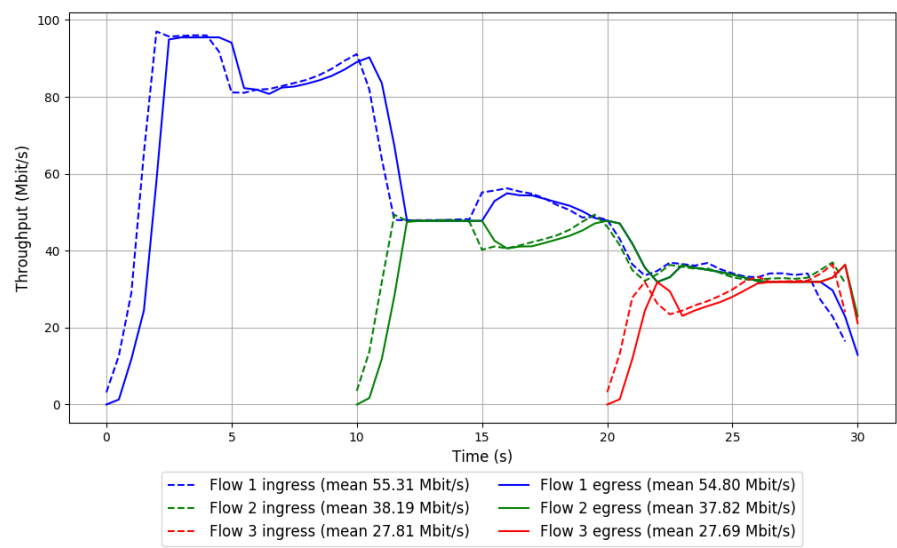


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-25 07:49:04
End at: 2018-07-25 07:49:34
Local clock offset: -7.019 ms
Remote clock offset: 8.543 ms

# Below is generated by plot.py at 2018-07-25 11:19:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.94 Mbit/s
95th percentile per-packet one-way delay: 105.587 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 54.80 Mbit/s
95th percentile per-packet one-way delay: 104.187 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 37.82 Mbit/s
95th percentile per-packet one-way delay: 105.588 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 27.69 Mbit/s
95th percentile per-packet one-way delay: 106.238 ms
Loss rate: 2.09%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-07-25 08:10:10

End at: 2018-07-25 08:10:40

Local clock offset: -3.543 ms

Remote clock offset: 9.554 ms

Below is generated by plot.py at 2018-07-25 11:19:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.80 Mbit/s

95th percentile per-packet one-way delay: 78.243 ms

Loss rate: 4.99%

-- Flow 1:

Average throughput: 57.25 Mbit/s

95th percentile per-packet one-way delay: 78.091 ms

Loss rate: 4.71%

-- Flow 2:

Average throughput: 14.21 Mbit/s

95th percentile per-packet one-way delay: 77.865 ms

Loss rate: 5.90%

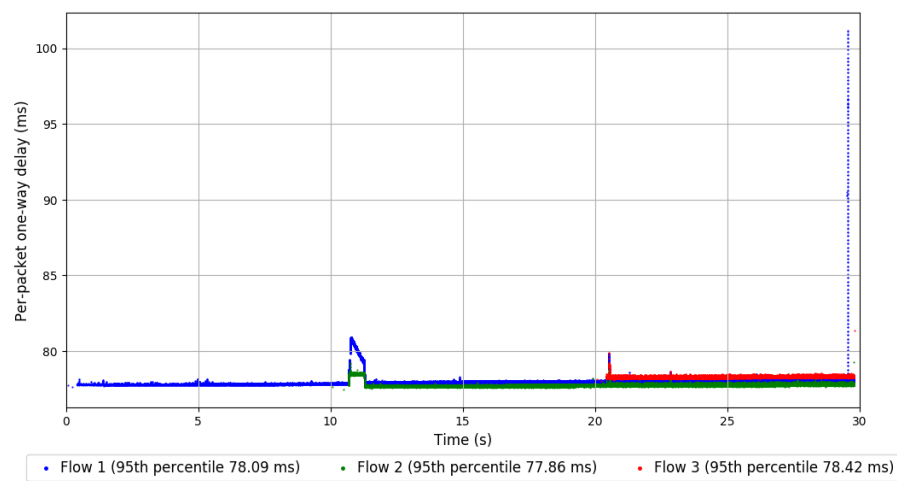
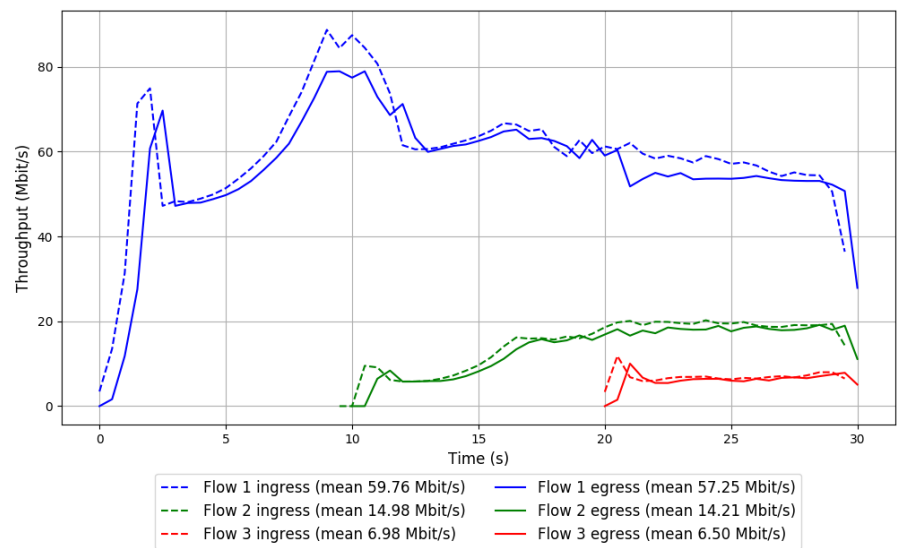
-- Flow 3:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 78.418 ms

Loss rate: 8.33%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-25 08:31:19

End at: 2018-07-25 08:31:49

Local clock offset: -0.765 ms

Remote clock offset: 16.38 ms

Below is generated by plot.py at 2018-07-25 11:19:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.13 Mbit/s

95th percentile per-packet one-way delay: 105.131 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 55.11 Mbit/s

95th percentile per-packet one-way delay: 103.594 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 36.69 Mbit/s

95th percentile per-packet one-way delay: 105.922 ms

Loss rate: 1.41%

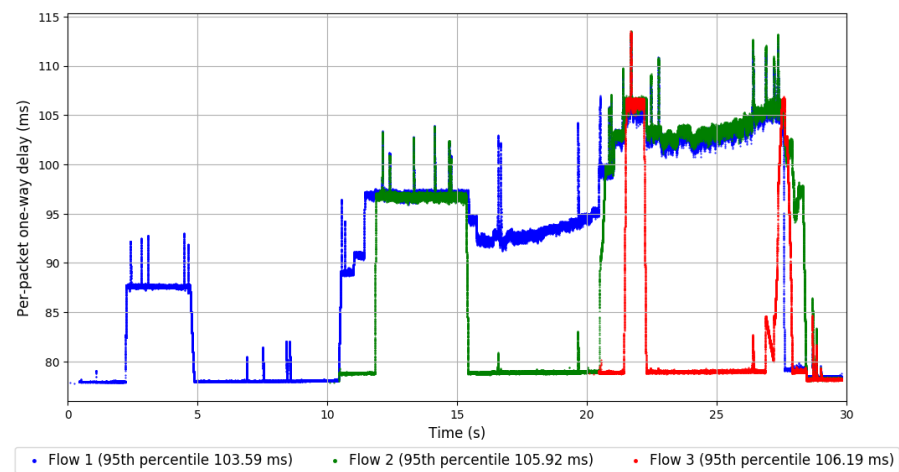
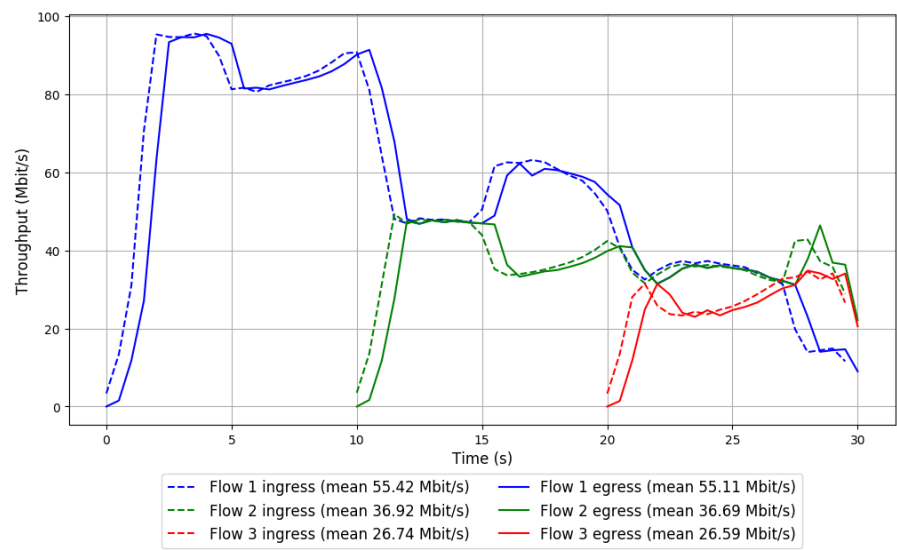
-- Flow 3:

Average throughput: 26.59 Mbit/s

95th percentile per-packet one-way delay: 106.188 ms

Loss rate: 2.21%

Run 3: Report of PCC-Expr — Data Link

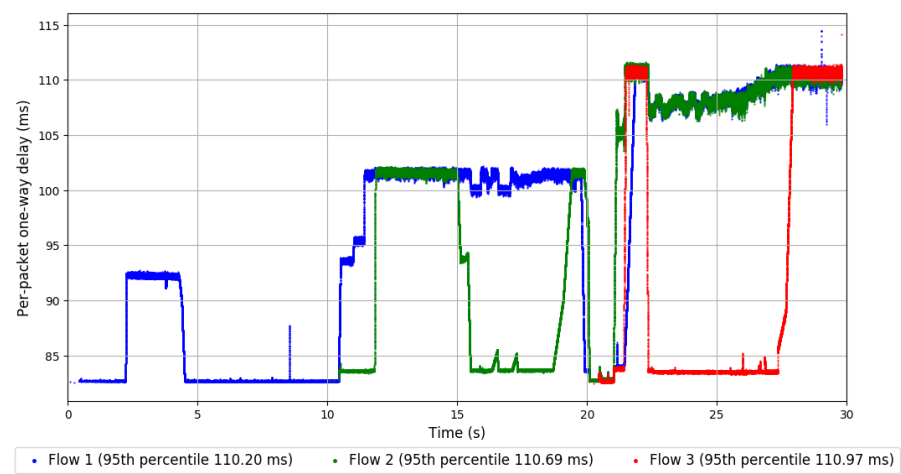
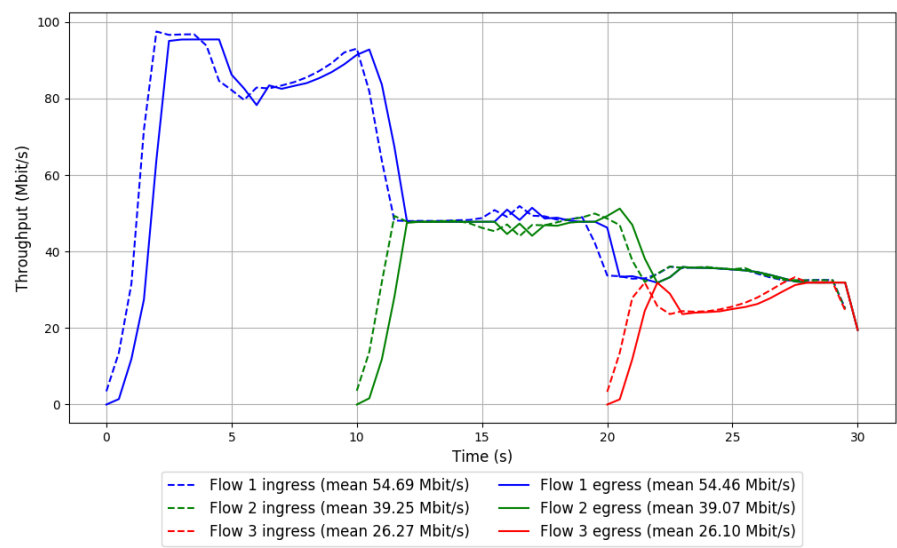


Run 4: Statistics of PCC-Expr

Start at: 2018-07-25 08:52:44
End at: 2018-07-25 08:53:14
Local clock offset: -6.939 ms
Remote clock offset: 11.411 ms

Below is generated by plot.py at 2018-07-25 11:19:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.89 Mbit/s
95th percentile per-packet one-way delay: 110.661 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 54.46 Mbit/s
95th percentile per-packet one-way delay: 110.204 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 110.686 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 26.10 Mbit/s
95th percentile per-packet one-way delay: 110.974 ms
Loss rate: 2.41%

Run 4: Report of PCC-Expr — Data Link

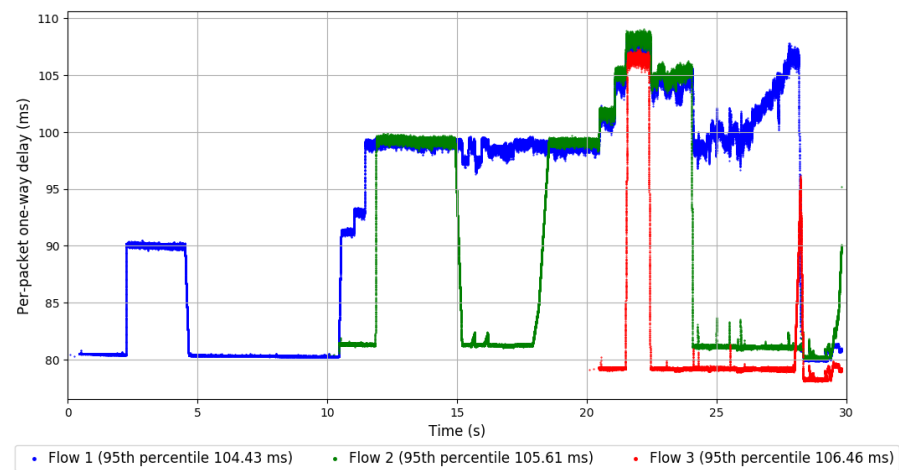
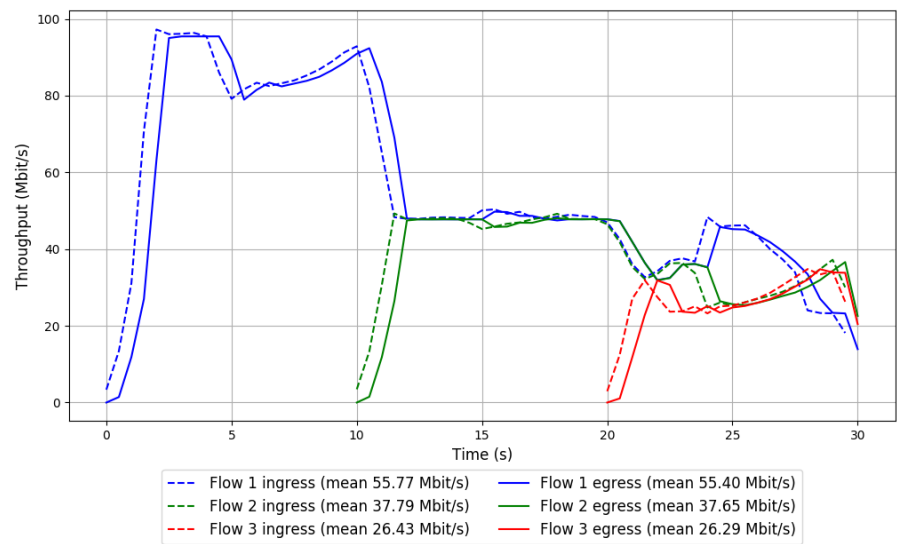


Run 5: Statistics of PCC-Expr

Start at: 2018-07-25 09:14:01
End at: 2018-07-25 09:14:31
Local clock offset: -3.458 ms
Remote clock offset: 15.686 ms

Below is generated by plot.py at 2018-07-25 11:19:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.96 Mbit/s
95th percentile per-packet one-way delay: 105.212 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 55.40 Mbit/s
95th percentile per-packet one-way delay: 104.426 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 37.65 Mbit/s
95th percentile per-packet one-way delay: 105.606 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 106.463 ms
Loss rate: 2.18%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-25 09:35:13

End at: 2018-07-25 09:35:43

Local clock offset: -3.667 ms

Remote clock offset: 8.007 ms

Below is generated by plot.py at 2018-07-25 11:19:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.76 Mbit/s

95th percentile per-packet one-way delay: 79.472 ms

Loss rate: 4.02%

-- Flow 1:

Average throughput: 58.45 Mbit/s

95th percentile per-packet one-way delay: 77.085 ms

Loss rate: 3.90%

-- Flow 2:

Average throughput: 11.95 Mbit/s

95th percentile per-packet one-way delay: 76.730 ms

Loss rate: 4.58%

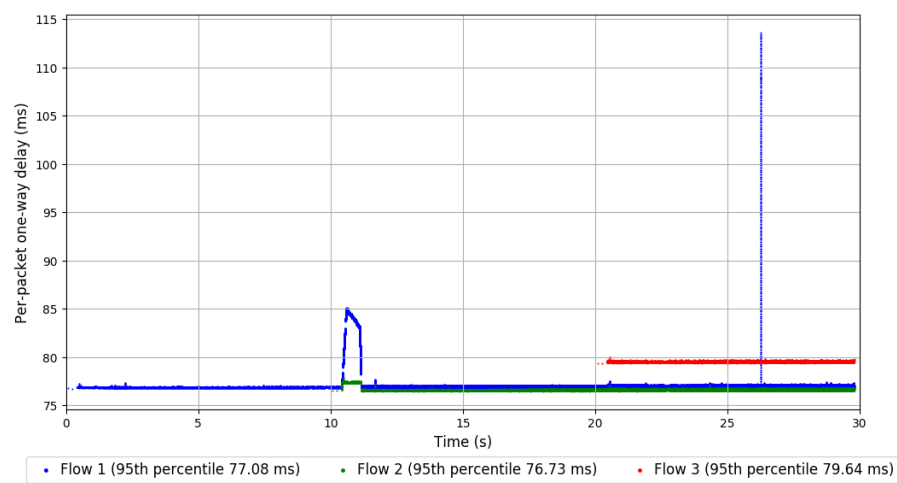
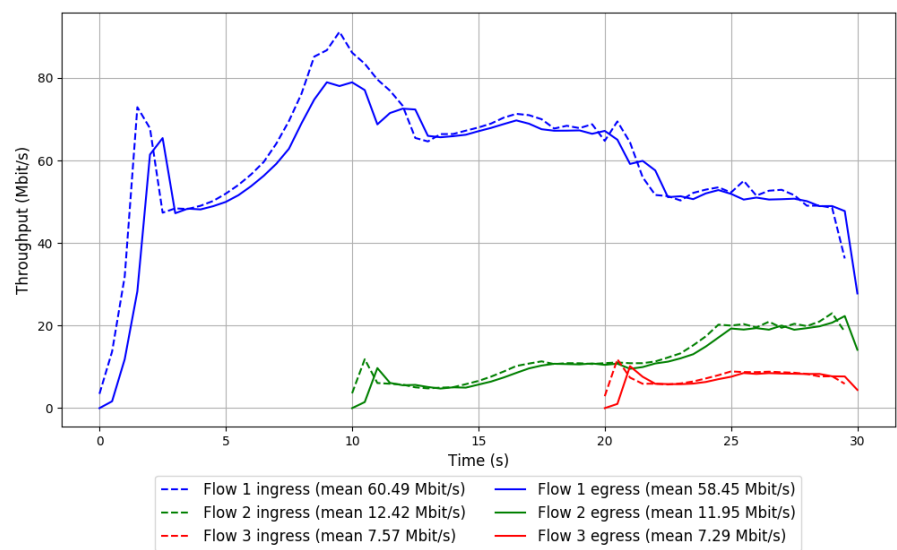
-- Flow 3:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 79.640 ms

Loss rate: 5.21%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-25 09:56:31

End at: 2018-07-25 09:57:01

Local clock offset: -7.285 ms

Remote clock offset: 1.953 ms

Below is generated by plot.py at 2018-07-25 11:20:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.86 Mbit/s

95th percentile per-packet one-way delay: 112.530 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 53.14 Mbit/s

95th percentile per-packet one-way delay: 112.321 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 39.48 Mbit/s

95th percentile per-packet one-way delay: 112.767 ms

Loss rate: 1.36%

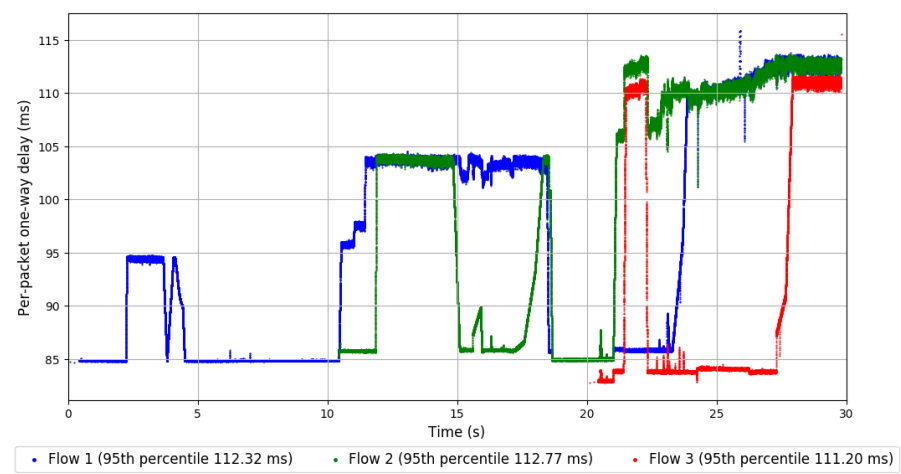
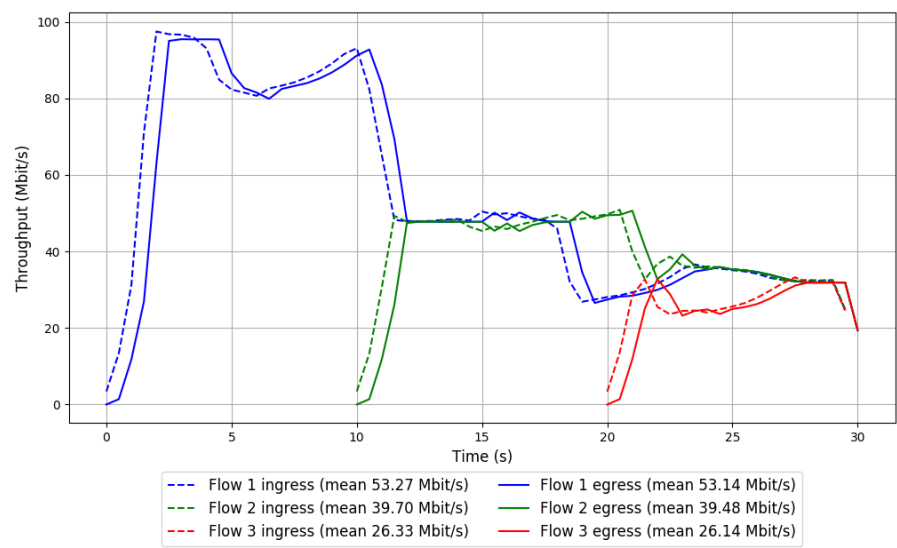
-- Flow 3:

Average throughput: 26.14 Mbit/s

95th percentile per-packet one-way delay: 111.203 ms

Loss rate: 2.43%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-25 10:17:49

End at: 2018-07-25 10:18:19

Local clock offset: -2.84 ms

Remote clock offset: 7.226 ms

Below is generated by plot.py at 2018-07-25 11:20:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.69 Mbit/s

95th percentile per-packet one-way delay: 103.744 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 56.24 Mbit/s

95th percentile per-packet one-way delay: 103.160 ms

Loss rate: 1.65%

-- Flow 2:

Average throughput: 36.67 Mbit/s

95th percentile per-packet one-way delay: 104.795 ms

Loss rate: 1.25%

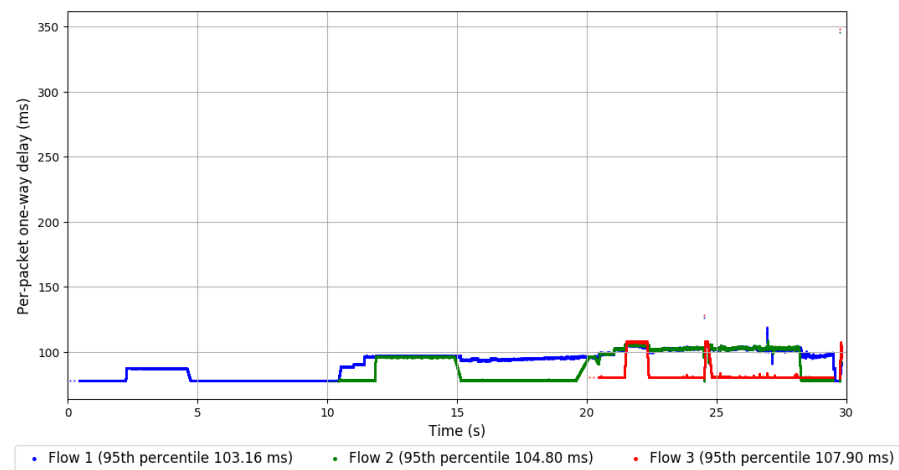
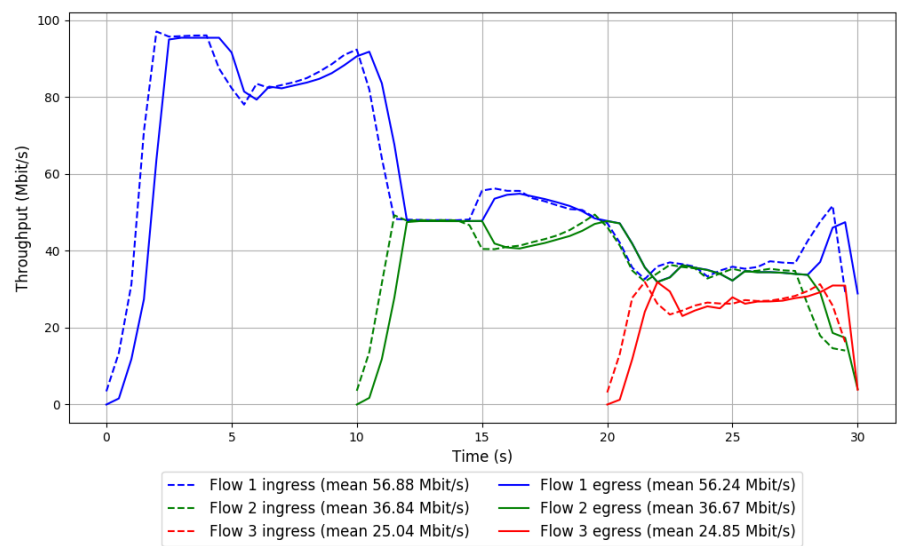
-- Flow 3:

Average throughput: 24.85 Mbit/s

95th percentile per-packet one-way delay: 107.903 ms

Loss rate: 2.53%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-25 10:39:14

End at: 2018-07-25 10:39:44

Local clock offset: -1.772 ms

Remote clock offset: 7.336 ms

Below is generated by plot.py at 2018-07-25 11:21:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.19 Mbit/s

95th percentile per-packet one-way delay: 110.979 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 47.22 Mbit/s

95th percentile per-packet one-way delay: 107.720 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 29.86 Mbit/s

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

Loss rate: 1.53%

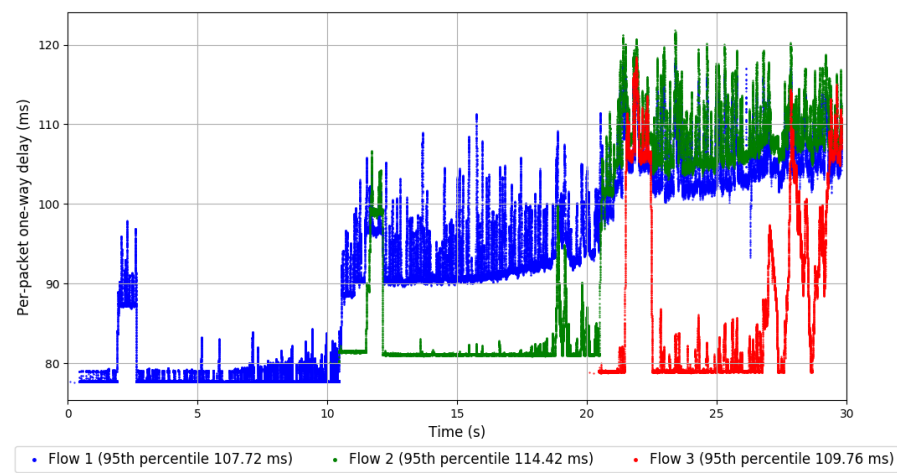
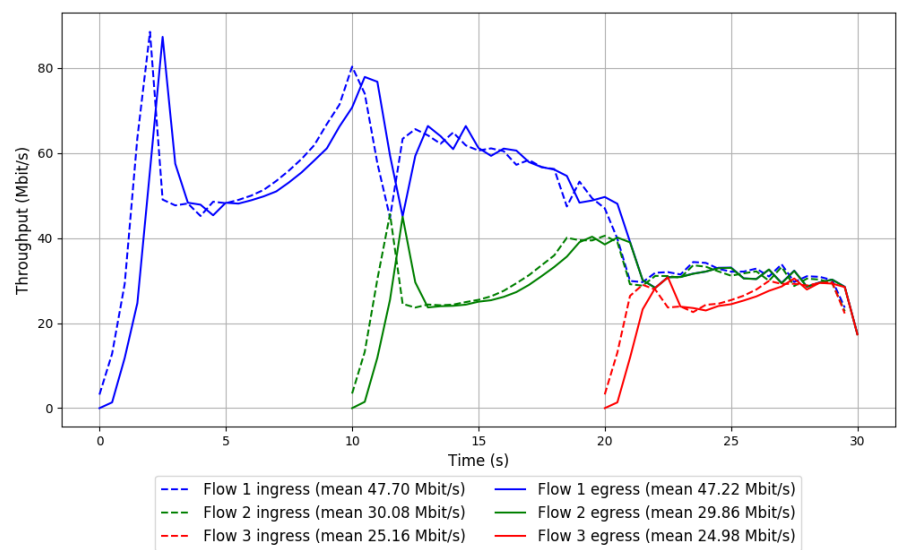
-- Flow 3:

Average throughput: 24.98 Mbit/s

95th percentile per-packet one-way delay: 109.761 ms

Loss rate: 2.39%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-25 11:00:21

End at: 2018-07-25 11:00:51

Local clock offset: -1.247 ms

Remote clock offset: 6.688 ms

Below is generated by plot.py at 2018-07-25 11:21:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.42 Mbit/s

95th percentile per-packet one-way delay: 115.292 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 49.84 Mbit/s

95th percentile per-packet one-way delay: 113.968 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 28.54 Mbit/s

95th percentile per-packet one-way delay: 117.805 ms

Loss rate: 1.09%

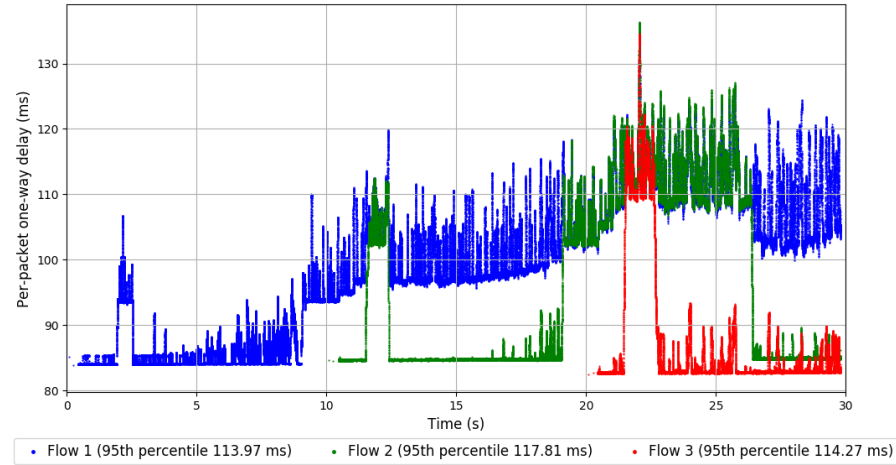
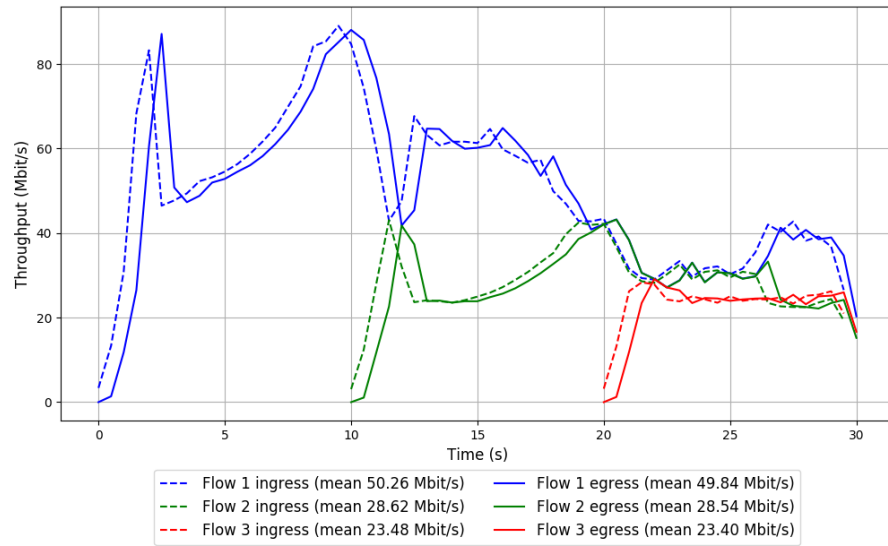
-- Flow 3:

Average throughput: 23.40 Mbit/s

95th percentile per-packet one-way delay: 114.274 ms

Loss rate: 1.97%

Run 10: Report of PCC-Expr — Data Link

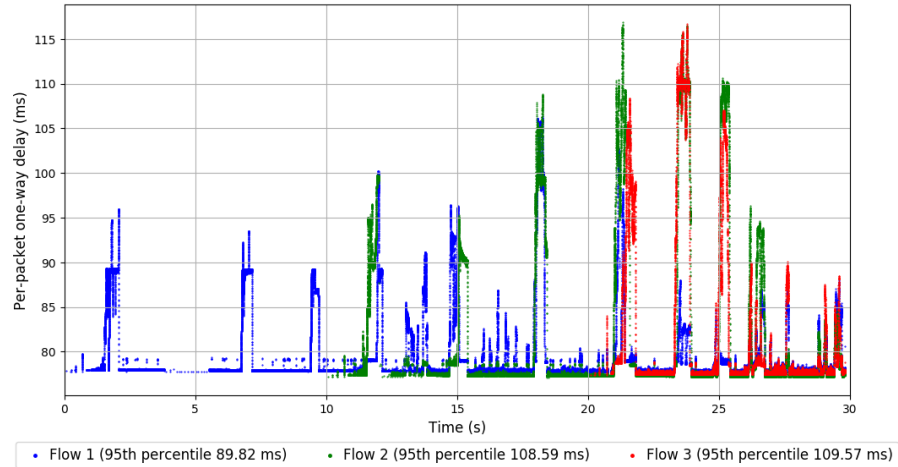
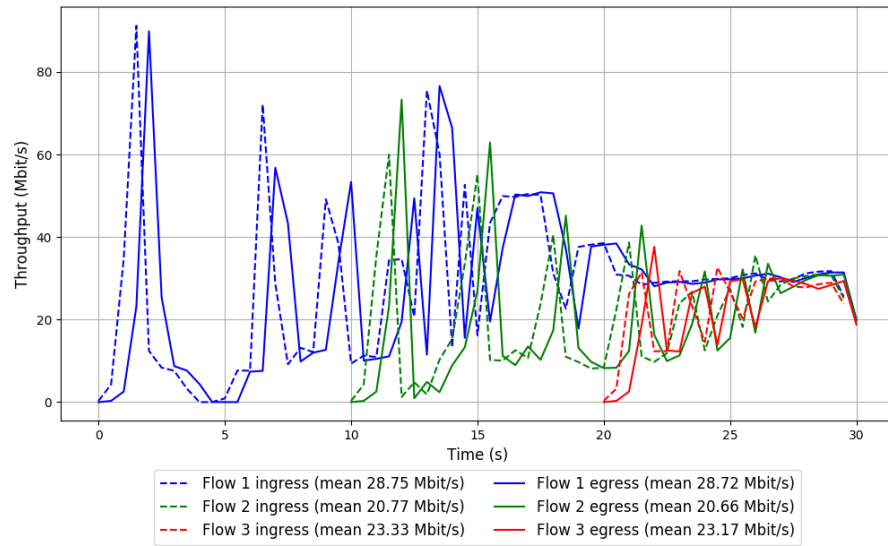


Run 1: Statistics of QUIC Cubic

Start at: 2018-07-25 07:39:10
End at: 2018-07-25 07:39:40
Local clock offset: -6.999 ms
Remote clock offset: 12.773 ms

Below is generated by plot.py at 2018-07-25 11:21:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.01 Mbit/s
95th percentile per-packet one-way delay: 101.940 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 28.72 Mbit/s
95th percentile per-packet one-way delay: 89.818 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 20.66 Mbit/s
95th percentile per-packet one-way delay: 108.591 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 23.17 Mbit/s
95th percentile per-packet one-way delay: 109.574 ms
Loss rate: 2.28%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-25 08:00:16

End at: 2018-07-25 08:00:46

Local clock offset: -7.235 ms

Remote clock offset: 6.149 ms

Below is generated by plot.py at 2018-07-25 11:21:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.11 Mbit/s

95th percentile per-packet one-way delay: 99.763 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 26.96 Mbit/s

95th percentile per-packet one-way delay: 99.648 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 24.48 Mbit/s

95th percentile per-packet one-way delay: 99.796 ms

Loss rate: 1.22%

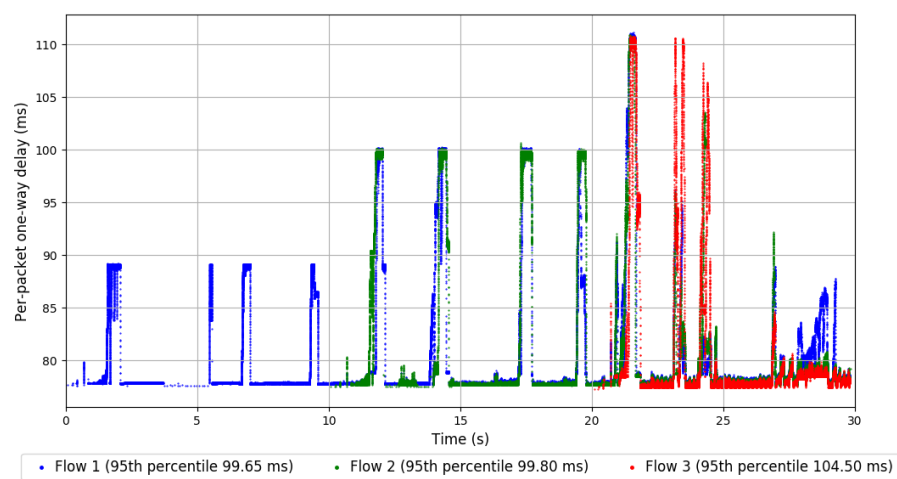
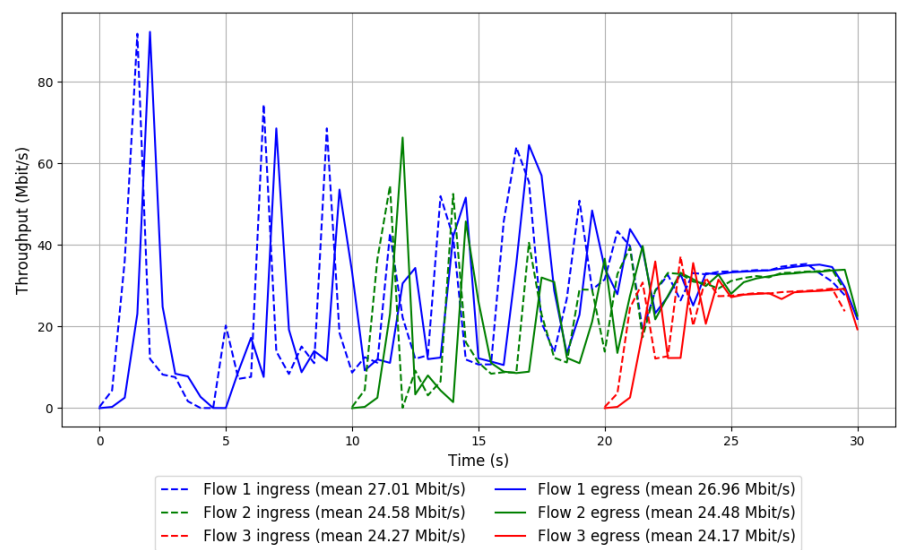
-- Flow 3:

Average throughput: 24.17 Mbit/s

95th percentile per-packet one-way delay: 104.505 ms

Loss rate: 2.04%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-25 08:21:25

End at: 2018-07-25 08:21:55

Local clock offset: -1.596 ms

Remote clock offset: 9.57 ms

Below is generated by plot.py at 2018-07-25 11:21:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.90 Mbit/s

95th percentile per-packet one-way delay: 104.723 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 28.87 Mbit/s

95th percentile per-packet one-way delay: 99.635 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 24.44 Mbit/s

95th percentile per-packet one-way delay: 104.713 ms

Loss rate: 1.06%

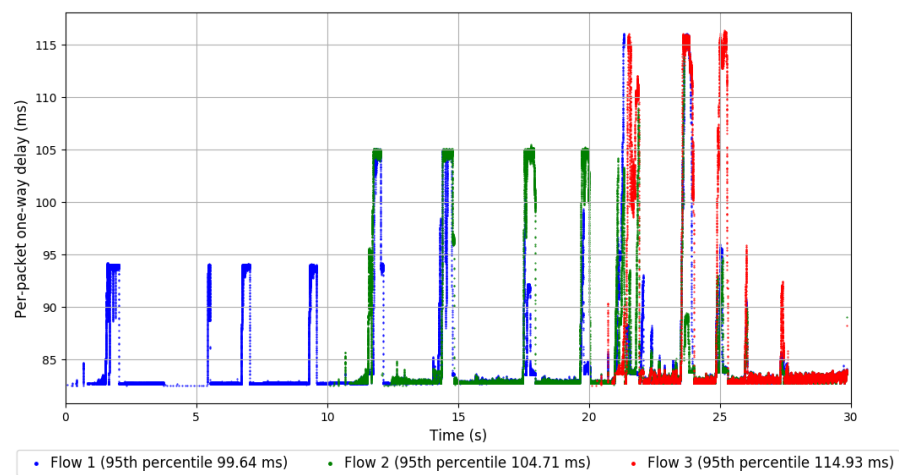
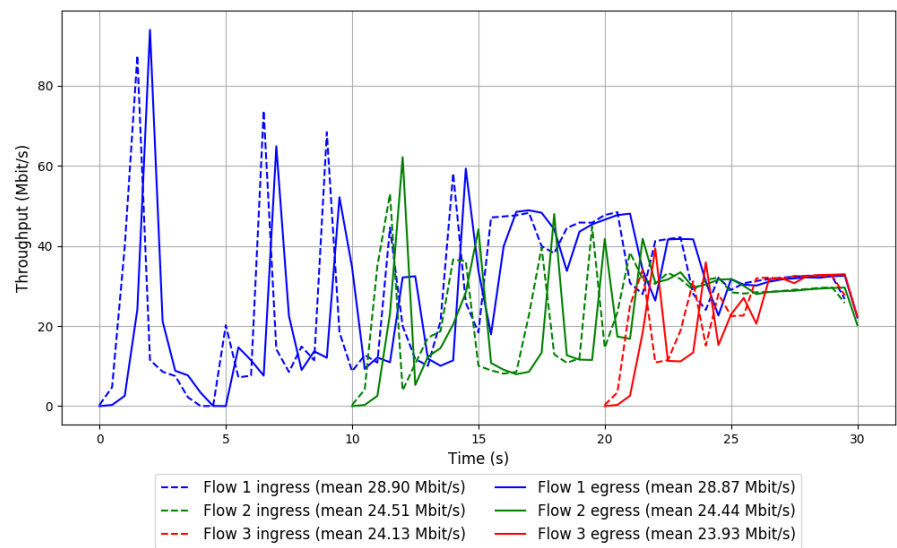
-- Flow 3:

Average throughput: 23.93 Mbit/s

95th percentile per-packet one-way delay: 114.929 ms

Loss rate: 2.39%

Run 3: Report of QUIC Cubic — Data Link

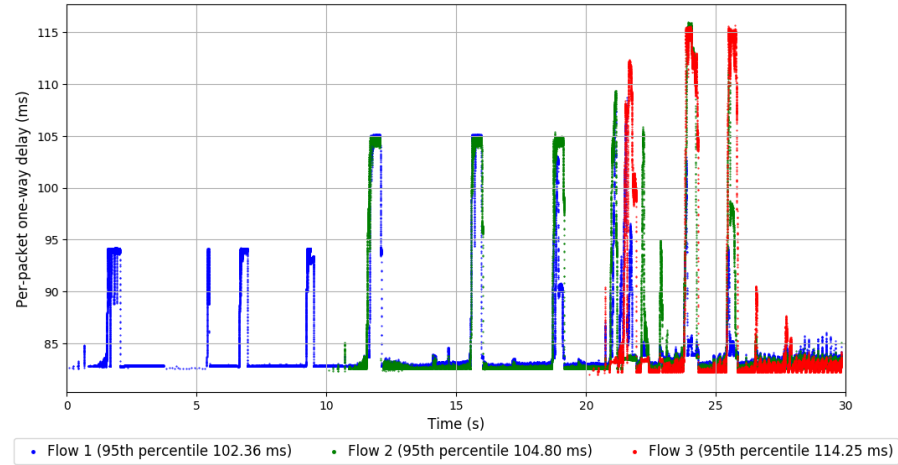
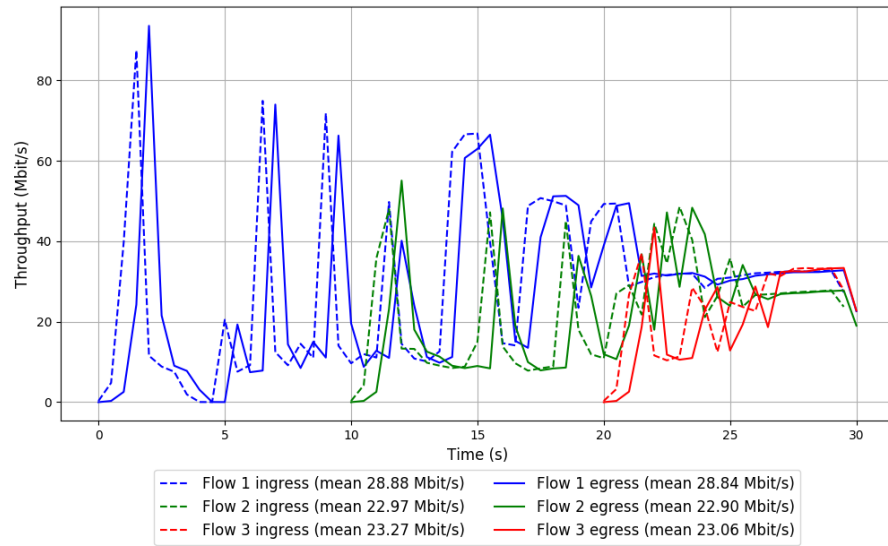


Run 4: Statistics of QUIC Cubic

Start at: 2018-07-25 08:42:41
End at: 2018-07-25 08:43:11
Local clock offset: -5.532 ms
Remote clock offset: 11.906 ms

Below is generated by plot.py at 2018-07-25 11:21:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 51.58 Mbit/s
95th percentile per-packet one-way delay: 104.804 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 28.84 Mbit/s
95th percentile per-packet one-way delay: 102.365 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 22.90 Mbit/s
95th percentile per-packet one-way delay: 104.800 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 23.06 Mbit/s
95th percentile per-packet one-way delay: 114.246 ms
Loss rate: 2.50%

Run 4: Report of QUIC Cubic — Data Link

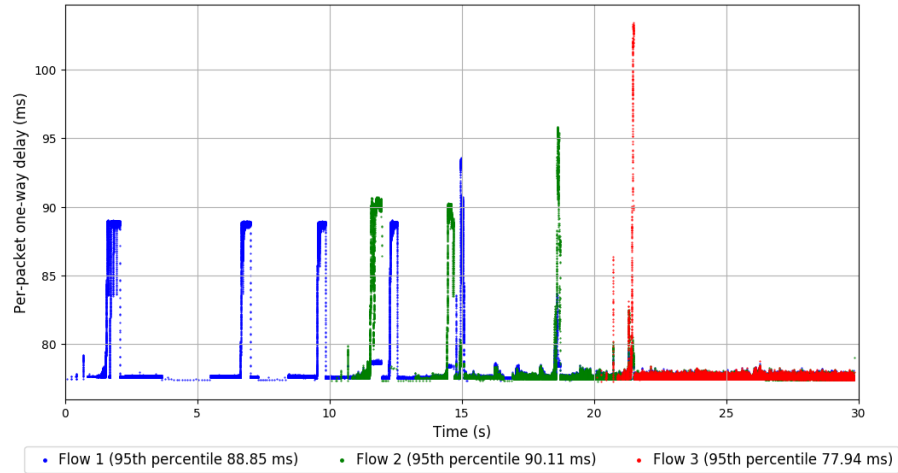
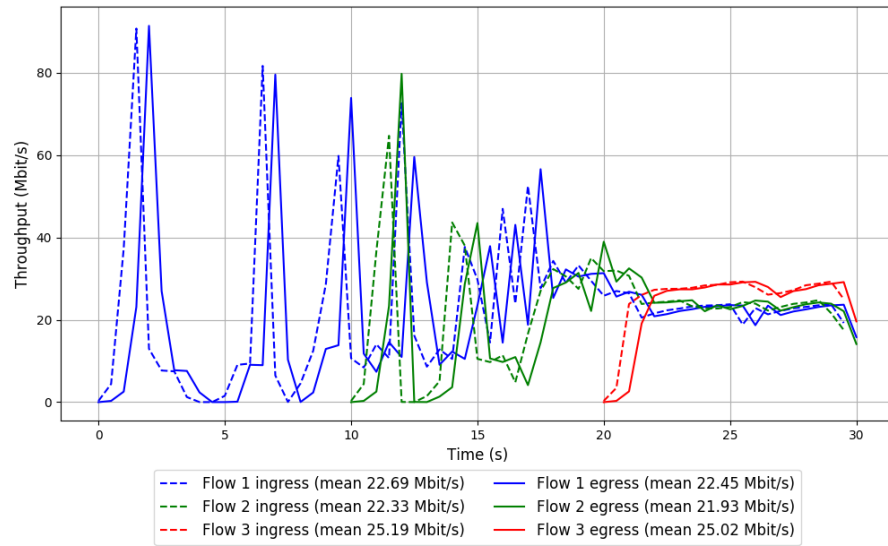


Run 5: Statistics of QUIC Cubic

Start at: 2018-07-25 09:03:59
End at: 2018-07-25 09:04:29
Local clock offset: -6.302 ms
Remote clock offset: 16.402 ms

Below is generated by plot.py at 2018-07-25 11:21:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.18 Mbit/s
95th percentile per-packet one-way delay: 88.881 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 22.45 Mbit/s
95th percentile per-packet one-way delay: 88.852 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 21.93 Mbit/s
95th percentile per-packet one-way delay: 90.107 ms
Loss rate: 2.57%
-- Flow 3:
Average throughput: 25.02 Mbit/s
95th percentile per-packet one-way delay: 77.939 ms
Loss rate: 2.28%

Run 5: Report of QUIC Cubic — Data Link

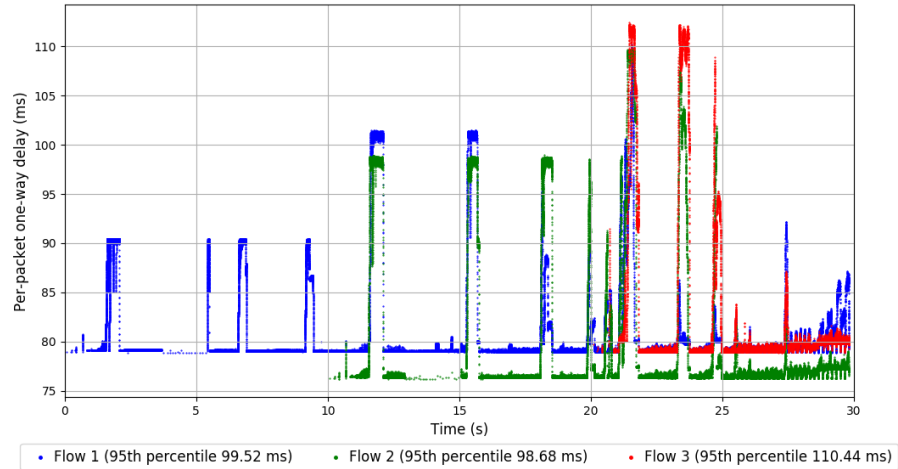
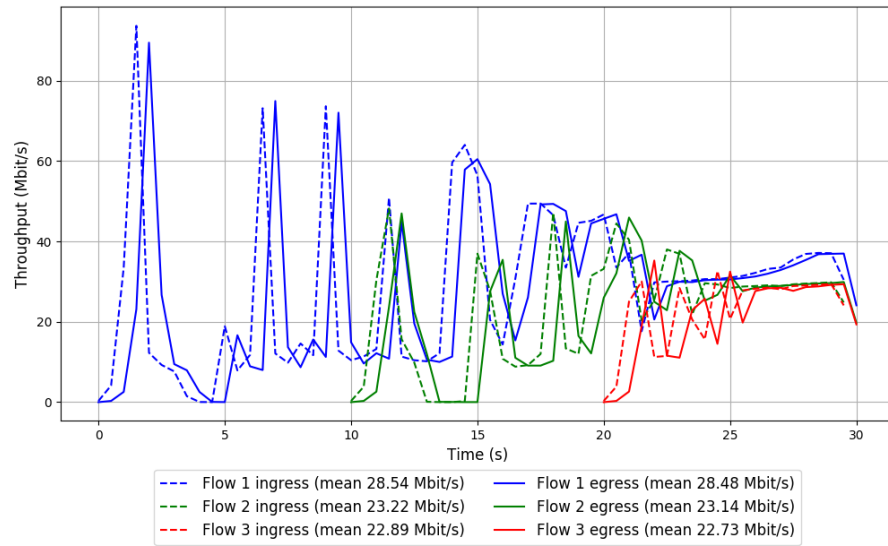


Run 6: Statistics of QUIC Cubic

Start at: 2018-07-25 09:25:17
End at: 2018-07-25 09:25:47
Local clock offset: -2.241 ms
Remote clock offset: 10.352 ms

Below is generated by plot.py at 2018-07-25 11:21:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 51.27 Mbit/s
95th percentile per-packet one-way delay: 100.785 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 28.48 Mbit/s
95th percentile per-packet one-way delay: 99.524 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 23.14 Mbit/s
95th percentile per-packet one-way delay: 98.677 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 22.73 Mbit/s
95th percentile per-packet one-way delay: 110.437 ms
Loss rate: 2.34%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-25 09:46:37

End at: 2018-07-25 09:47:07

Local clock offset: -6.405 ms

Remote clock offset: 5.267 ms

Below is generated by plot.py at 2018-07-25 11:21:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.09 Mbit/s

95th percentile per-packet one-way delay: 101.833 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 96.497 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 24.98 Mbit/s

95th percentile per-packet one-way delay: 101.945 ms

Loss rate: 1.07%

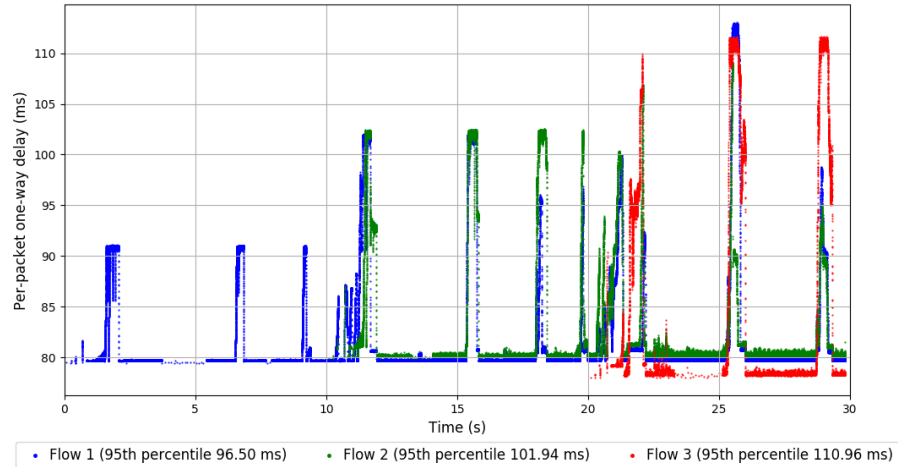
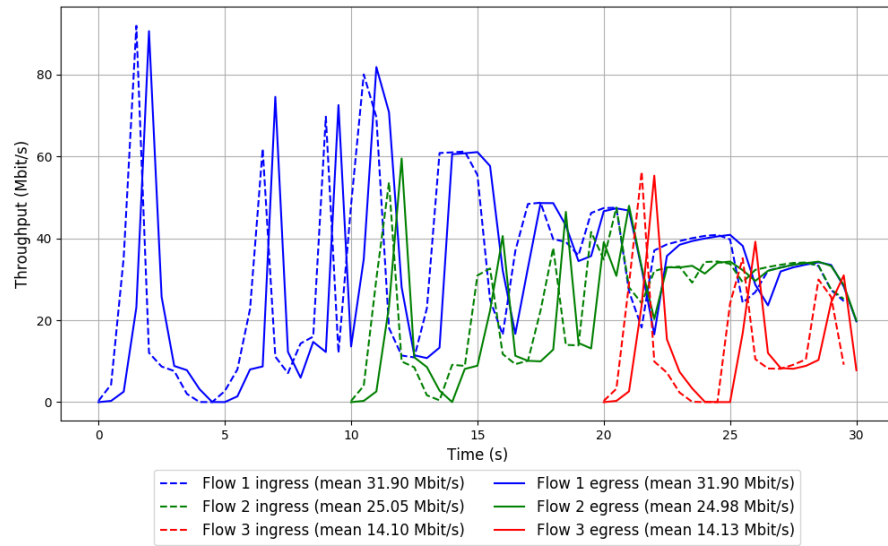
-- Flow 3:

Average throughput: 14.13 Mbit/s

95th percentile per-packet one-way delay: 110.962 ms

Loss rate: 1.40%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-25 10:07:56

End at: 2018-07-25 10:08:26

Local clock offset: -4.753 ms

Remote clock offset: 3.411 ms

Below is generated by plot.py at 2018-07-25 11:21:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.01 Mbit/s

95th percentile per-packet one-way delay: 105.497 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 31.60 Mbit/s

95th percentile per-packet one-way delay: 103.552 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 24.56 Mbit/s

95th percentile per-packet one-way delay: 105.411 ms

Loss rate: 1.16%

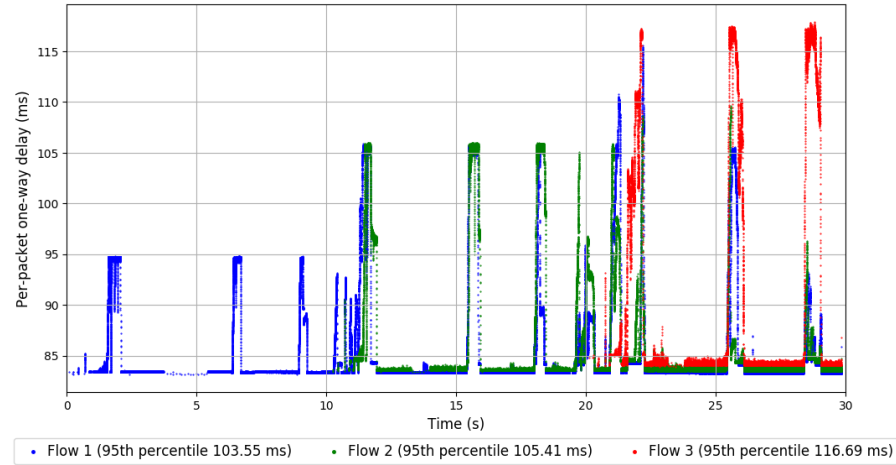
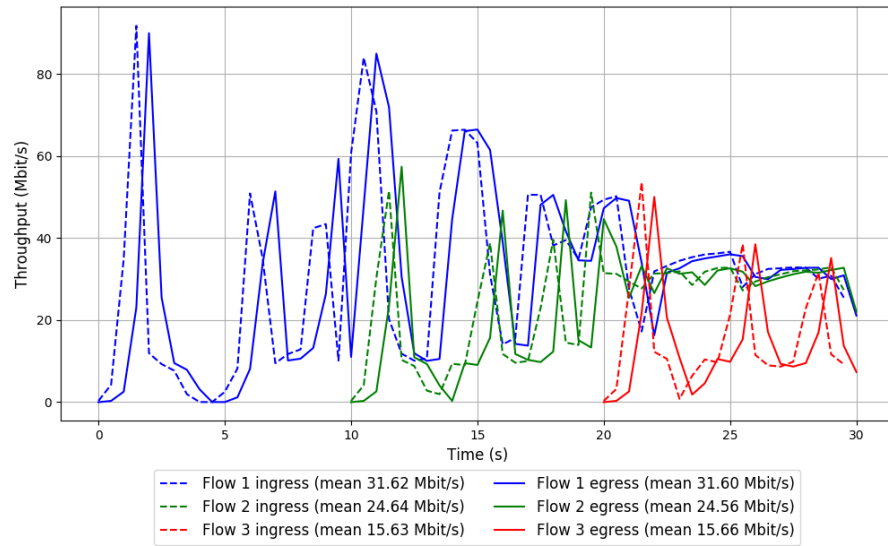
-- Flow 3:

Average throughput: 15.66 Mbit/s

95th percentile per-packet one-way delay: 116.688 ms

Loss rate: 1.44%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-25 10:29:04

End at: 2018-07-25 10:29:34

Local clock offset: -1.895 ms

Remote clock offset: 7.245 ms

Below is generated by plot.py at 2018-07-25 11:21:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.55 Mbit/s

95th percentile per-packet one-way delay: 101.541 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 37.80 Mbit/s

95th percentile per-packet one-way delay: 90.868 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 20.61 Mbit/s

95th percentile per-packet one-way delay: 102.032 ms

Loss rate: 1.30%

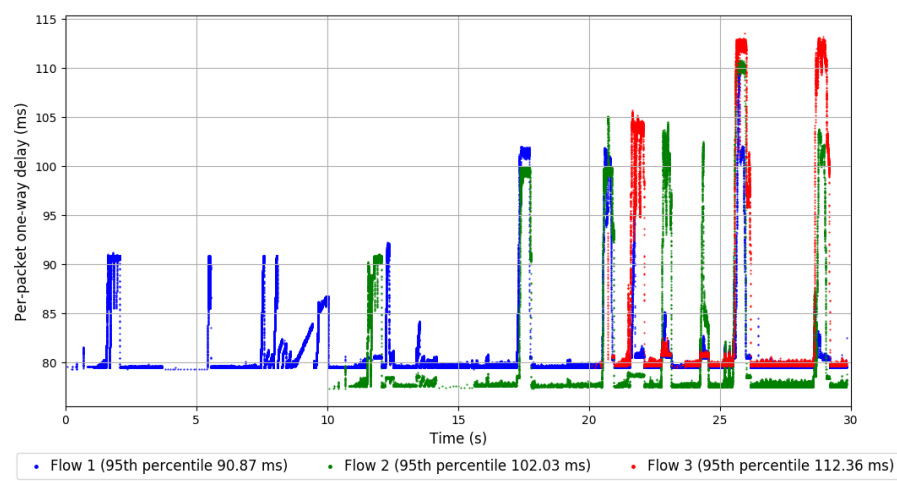
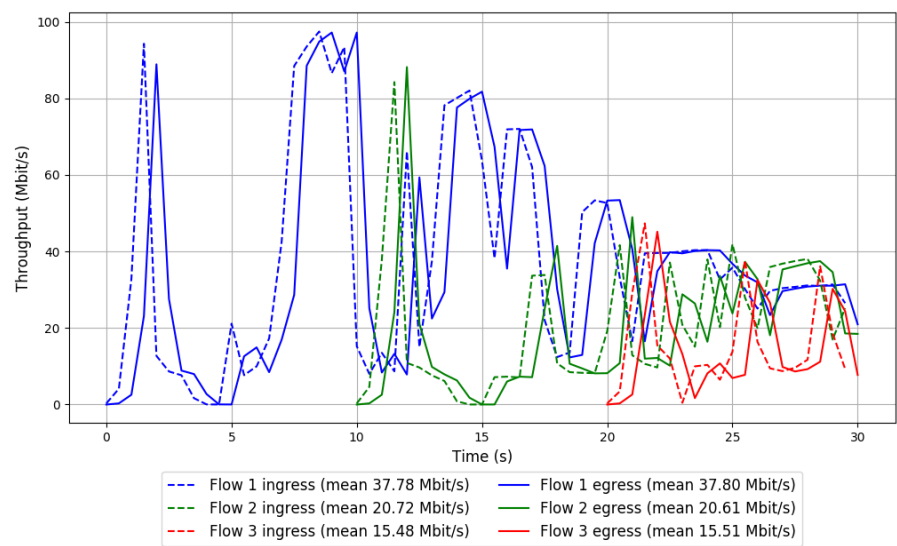
-- Flow 3:

Average throughput: 15.51 Mbit/s

95th percentile per-packet one-way delay: 112.363 ms

Loss rate: 1.45%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-25 10:50:26

End at: 2018-07-25 10:50:56

Local clock offset: -1.526 ms

Remote clock offset: 3.423 ms

Below is generated by plot.py at 2018-07-25 11:21:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.84 Mbit/s

95th percentile per-packet one-way delay: 109.221 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 23.68 Mbit/s

95th percentile per-packet one-way delay: 100.854 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 22.42 Mbit/s

95th percentile per-packet one-way delay: 109.613 ms

Loss rate: 0.99%

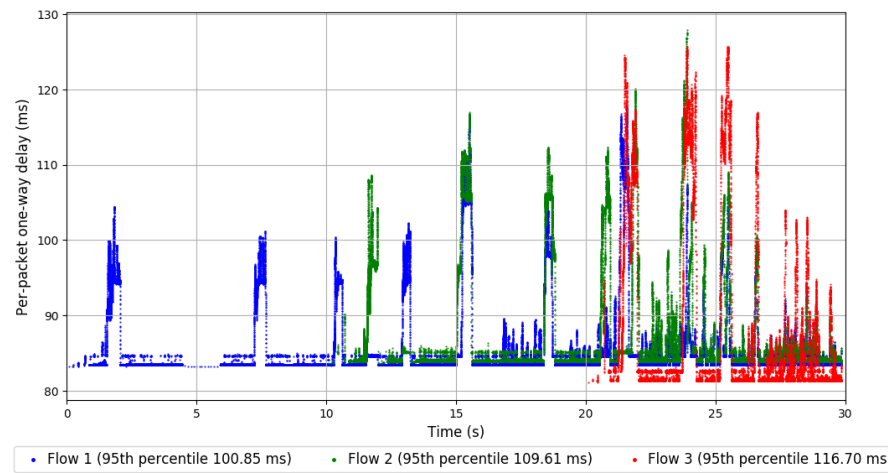
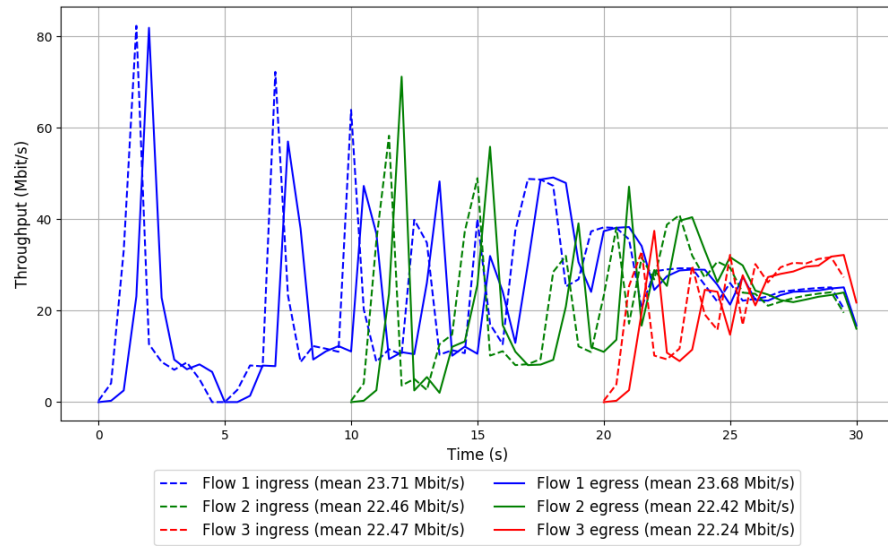
-- Flow 3:

Average throughput: 22.24 Mbit/s

95th percentile per-packet one-way delay: 116.705 ms

Loss rate: 2.65%

Run 10: Report of QUIC Cubic — Data Link

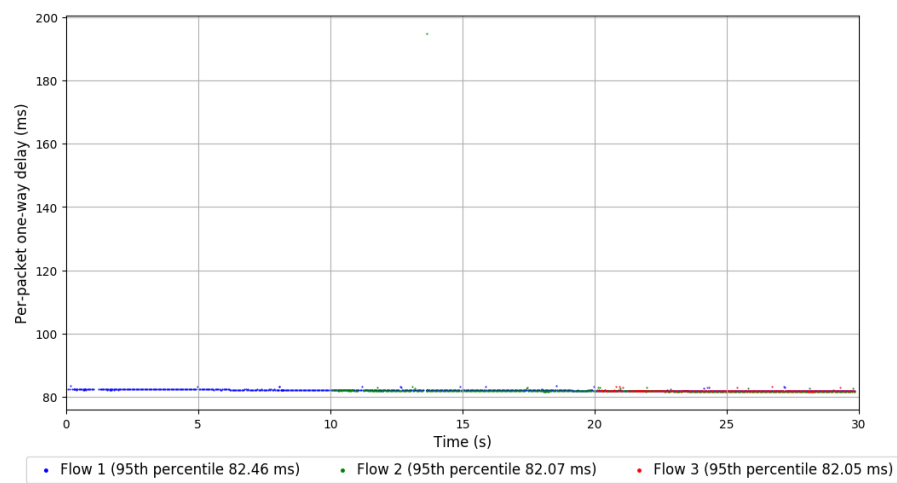
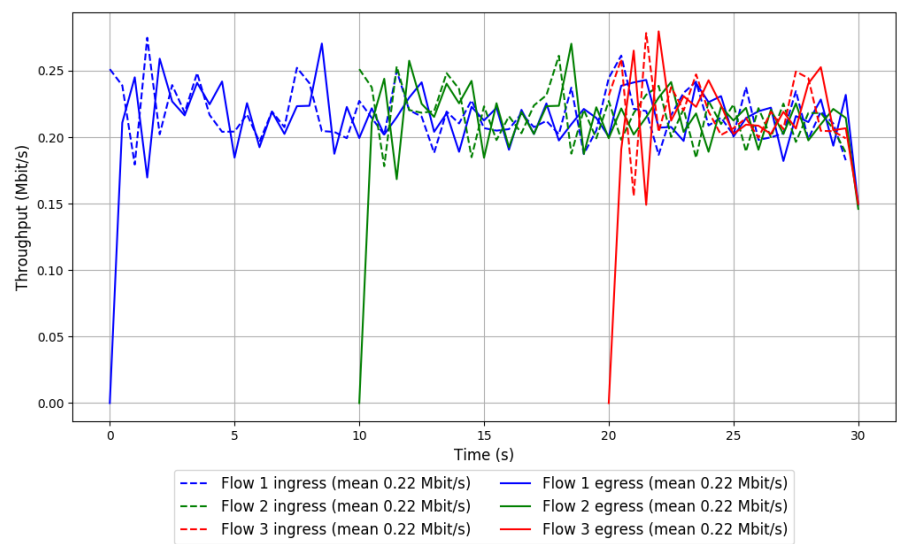


```
Run 1: Statistics of SReAM

Start at: 2018-07-25 07:32:54
End at: 2018-07-25 07:33:24
Local clock offset: -7.086 ms
Remote clock offset: 13.737 ms

# Below is generated by plot.py at 2018-07-25 11:21:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 82.438 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.456 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.066 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.048 ms
Loss rate: 1.84%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-07-25 07:54:04

End at: 2018-07-25 07:54:34

Local clock offset: -7.066 ms

Remote clock offset: 2.421 ms

Below is generated by plot.py at 2018-07-25 11:21:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 82.598 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.597 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.605 ms

Loss rate: 0.82%

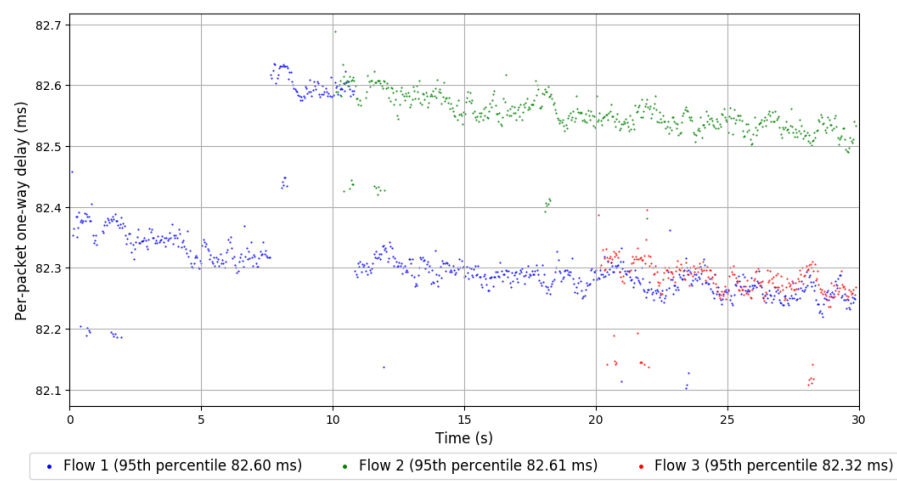
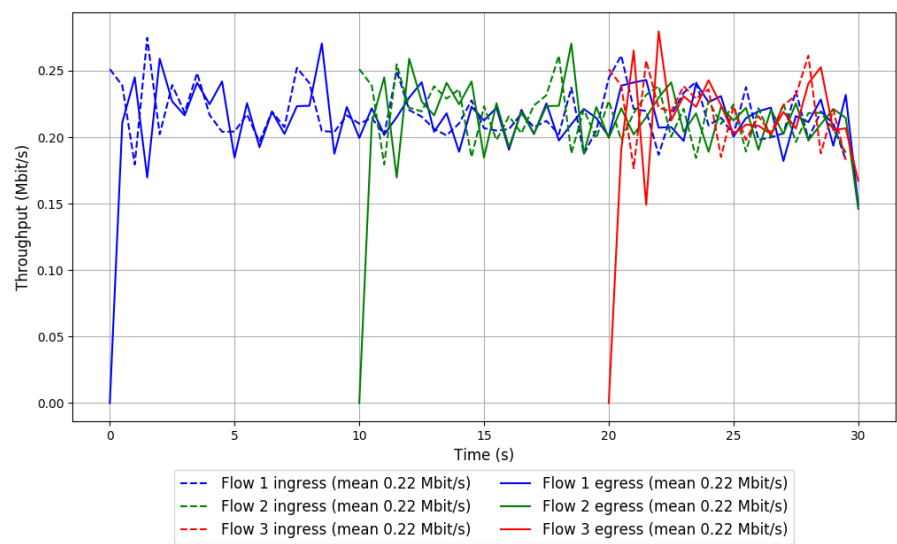
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.319 ms

Loss rate: 1.45%

Run 2: Report of SReAM — Data Link

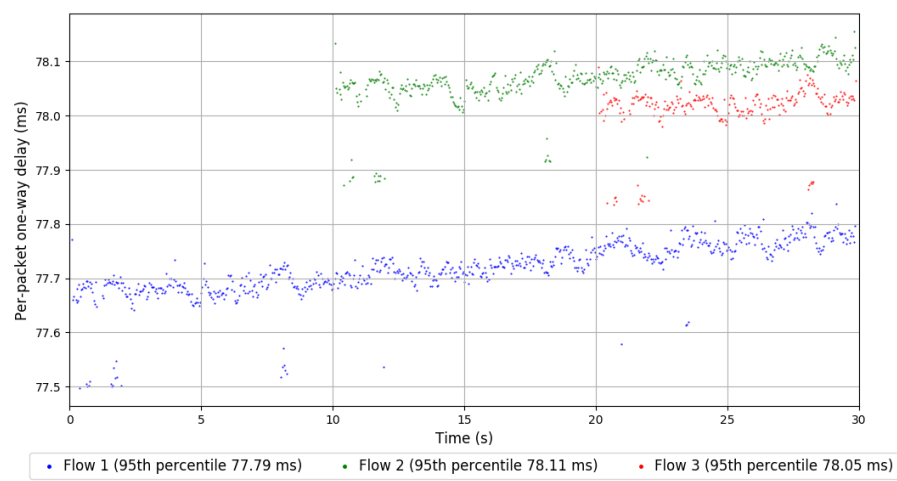
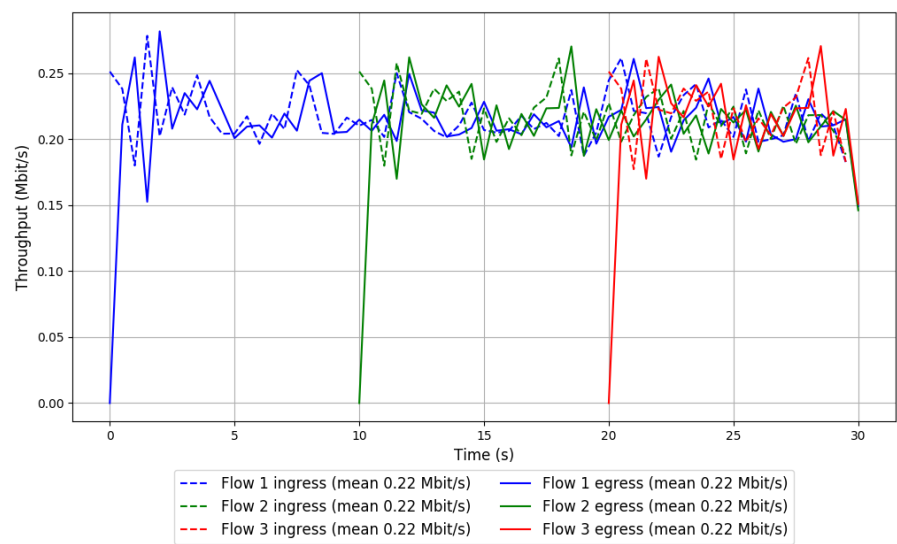


Run 3: Statistics of SReAM

Start at: 2018-07-25 08:15:13
End at: 2018-07-25 08:15:43
Local clock offset: -2.523 ms
Remote clock offset: 12.389 ms

Below is generated by plot.py at 2018-07-25 11:21:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 78.100 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.786 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.114 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.051 ms
Loss rate: 1.45%

Run 3: Report of SReAM — Data Link

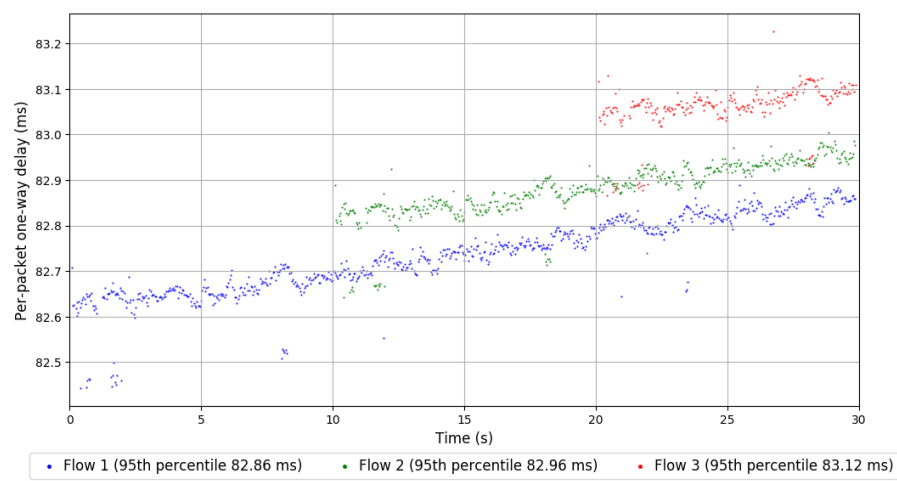
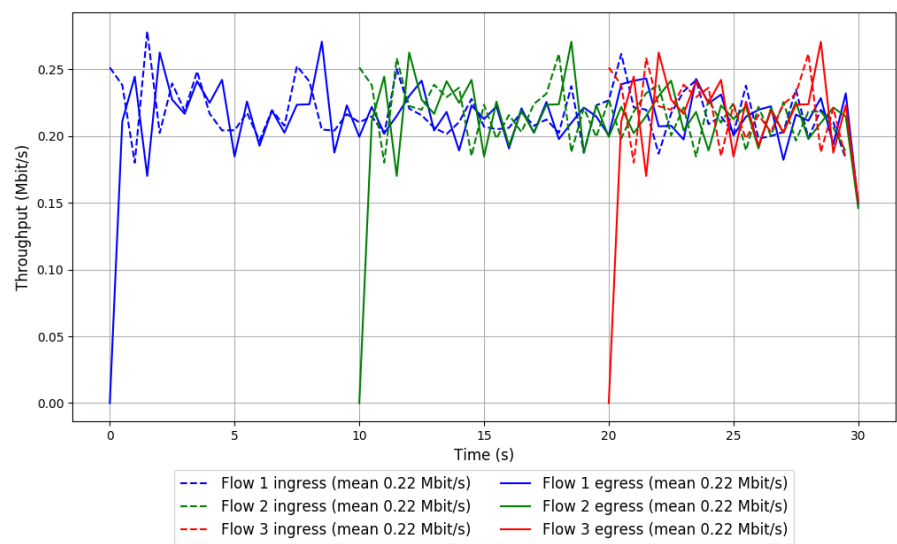


Run 4: Statistics of SReAM

Start at: 2018-07-25 08:36:20
End at: 2018-07-25 08:36:50
Local clock offset: -3.527 ms
Remote clock offset: 12.073 ms

Below is generated by plot.py at 2018-07-25 11:21:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 83.082 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.856 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.957 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.116 ms
Loss rate: 1.45%

Run 4: Report of SReAM — Data Link

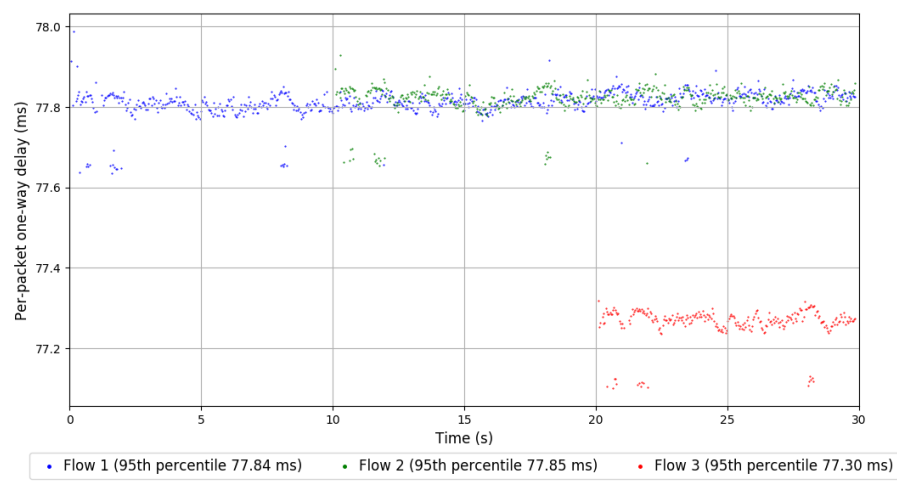
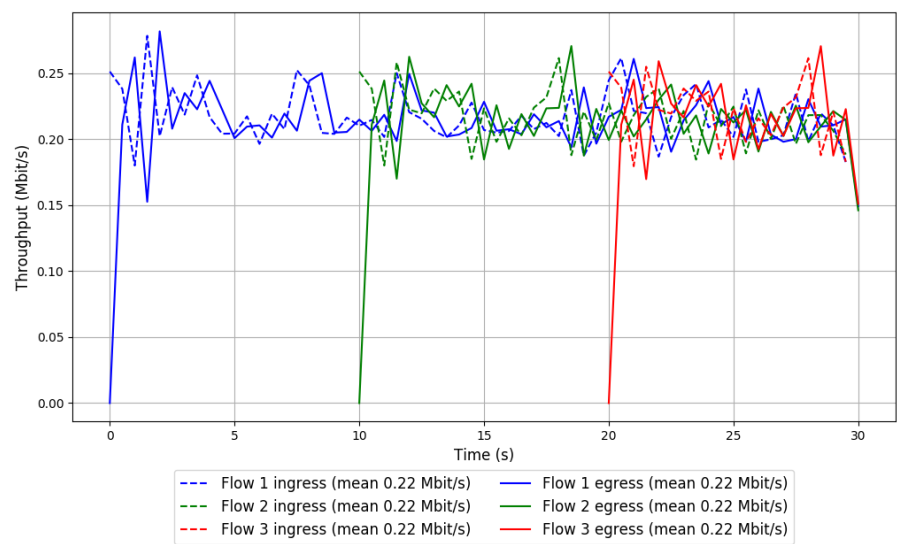


Run 5: Statistics of SReAM

Start at: 2018-07-25 08:57:47
End at: 2018-07-25 08:58:17
Local clock offset: -7.363 ms
Remote clock offset: 16.259 ms

Below is generated by plot.py at 2018-07-25 11:21:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 77.848 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.845 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.853 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.298 ms
Loss rate: 1.45%

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-25 09:19:03

End at: 2018-07-25 09:19:33

Local clock offset: -2.788 ms

Remote clock offset: 13.43 ms

Below is generated by plot.py at 2018-07-25 11:21:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 78.302 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.335 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 76.468 ms

Loss rate: 0.82%

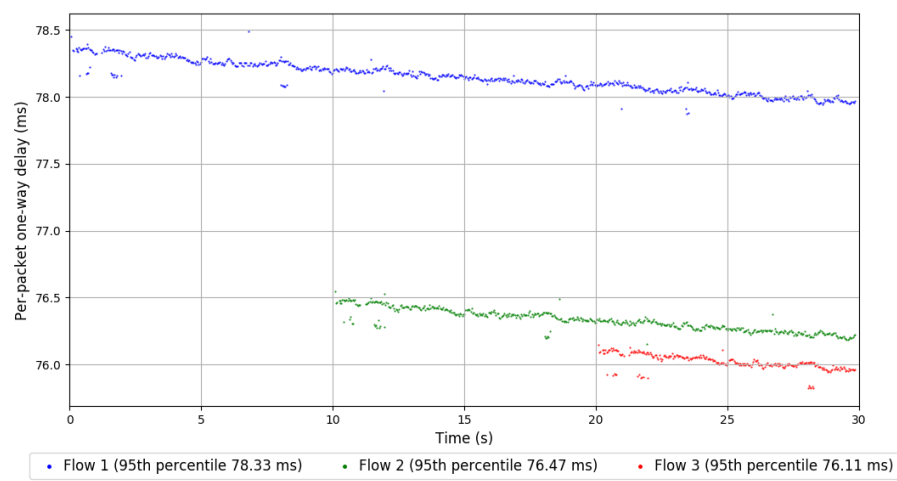
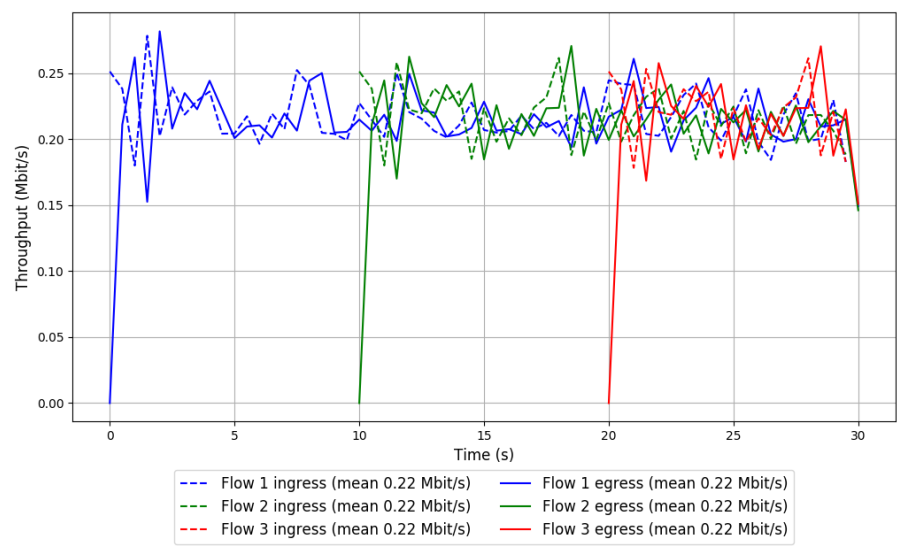
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 76.107 ms

Loss rate: 1.45%

Run 6: Report of SCReAM — Data Link

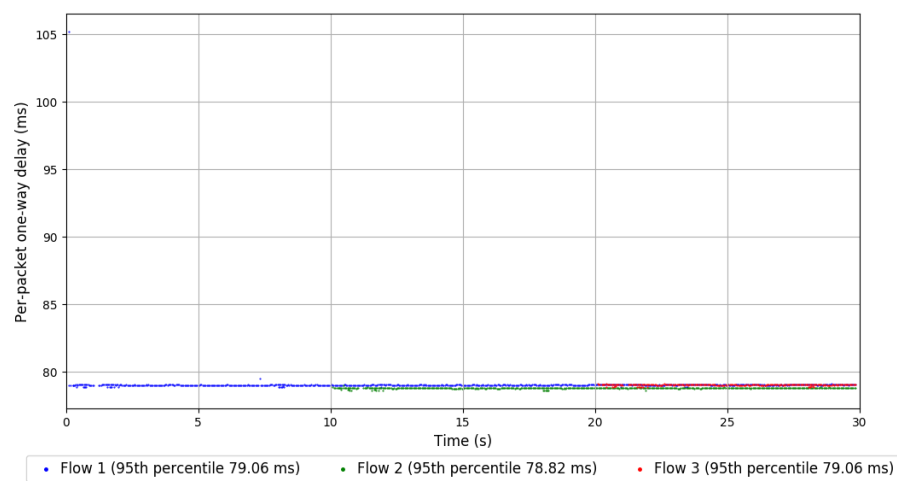
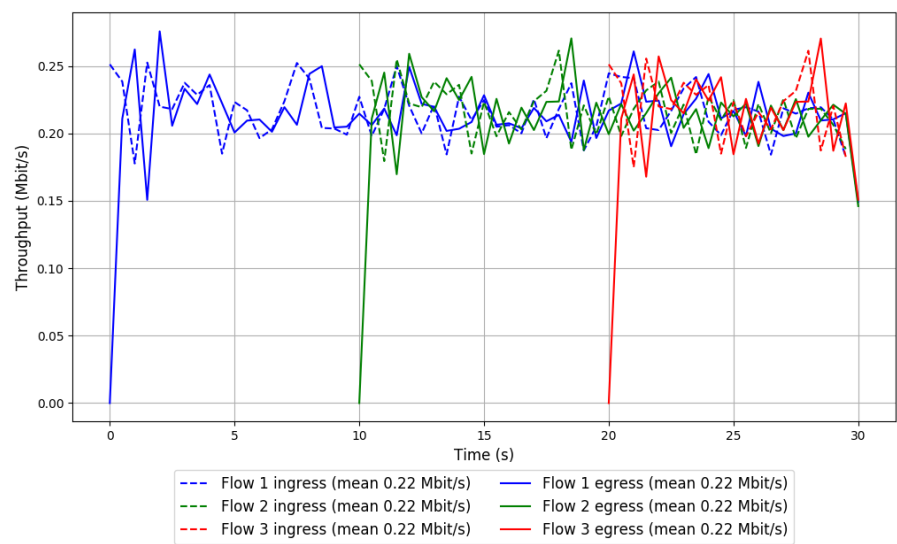


Run 7: Statistics of SReAM

Start at: 2018-07-25 09:40:25
End at: 2018-07-25 09:40:55
Local clock offset: -5.349 ms
Remote clock offset: 4.895 ms

Below is generated by plot.py at 2018-07-25 11:21:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 79.055 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.055 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.821 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.062 ms
Loss rate: 1.45%

Run 7: Report of SCReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-07-25 10:01:33

End at: 2018-07-25 10:02:03

Local clock offset: -7.593 ms

Remote clock offset: 2.228 ms

Below is generated by plot.py at 2018-07-25 11:21:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 84.375 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.394 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.360 ms

Loss rate: 0.82%

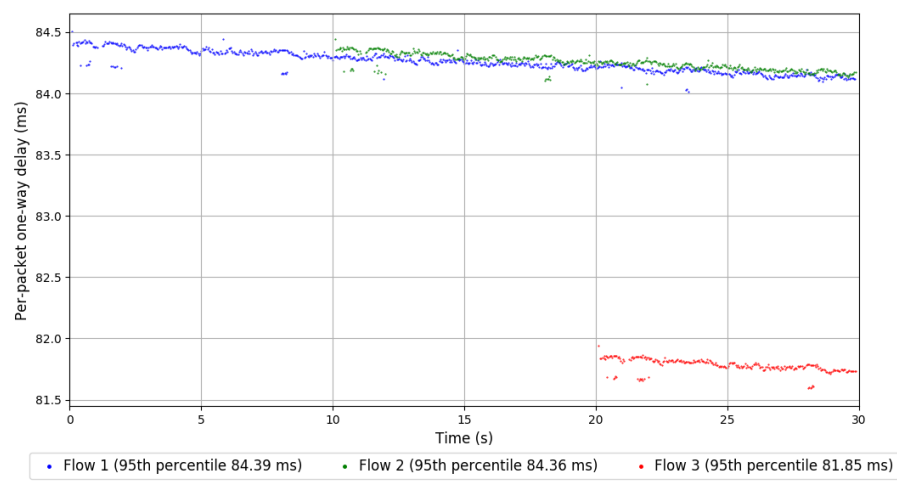
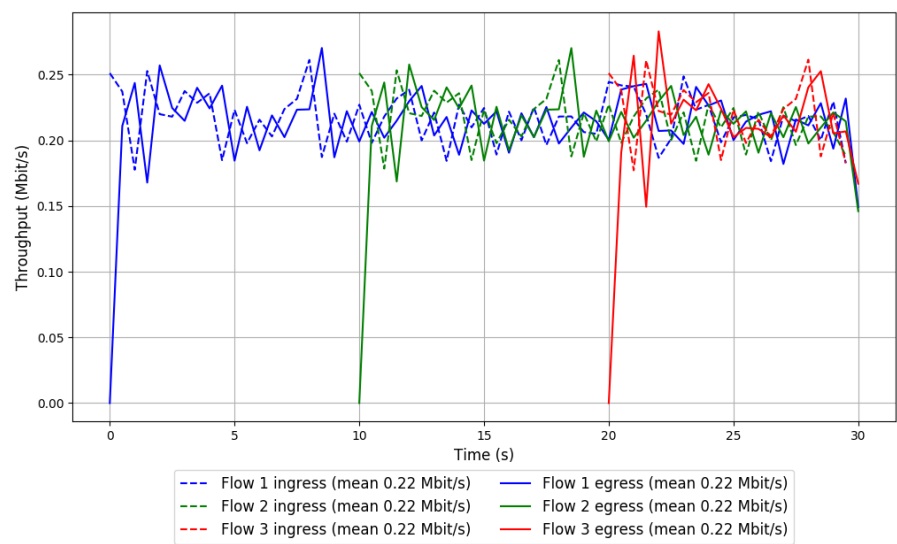
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.850 ms

Loss rate: 1.45%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-25 10:22:52

End at: 2018-07-25 10:23:22

Local clock offset: -2.404 ms

Remote clock offset: 3.227 ms

Below is generated by plot.py at 2018-07-25 11:21:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 83.876 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.256 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.886 ms

Loss rate: 0.82%

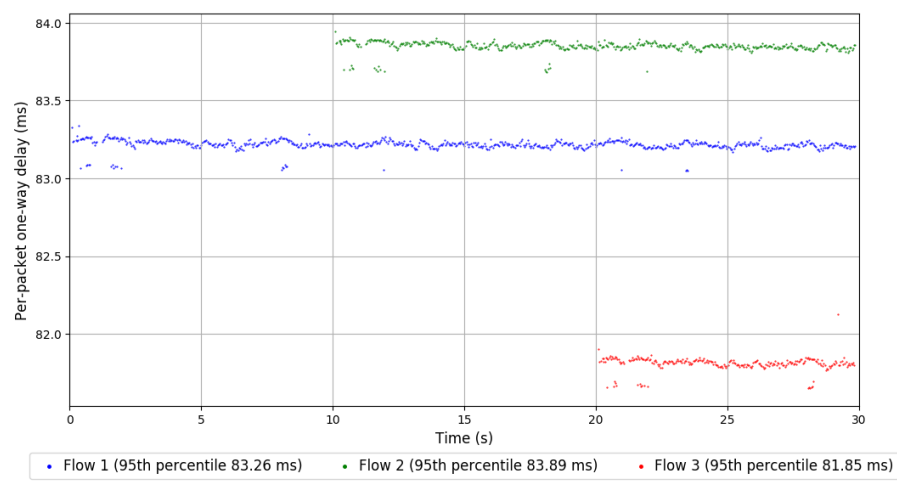
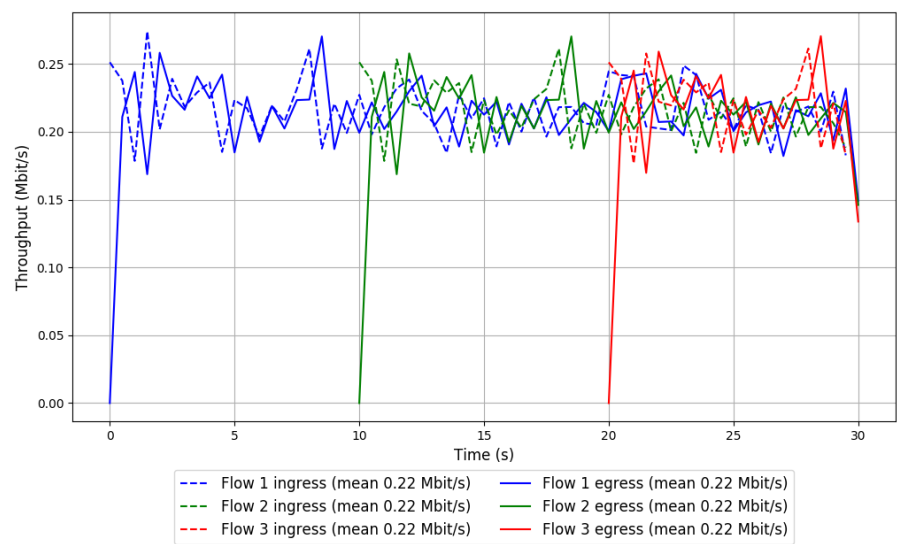
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.847 ms

Loss rate: 1.84%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-25 10:44:15

End at: 2018-07-25 10:44:45

Local clock offset: -1.689 ms

Remote clock offset: 3.53 ms

Below is generated by plot.py at 2018-07-25 11:21:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 83.443 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.359 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.486 ms

Loss rate: 0.82%

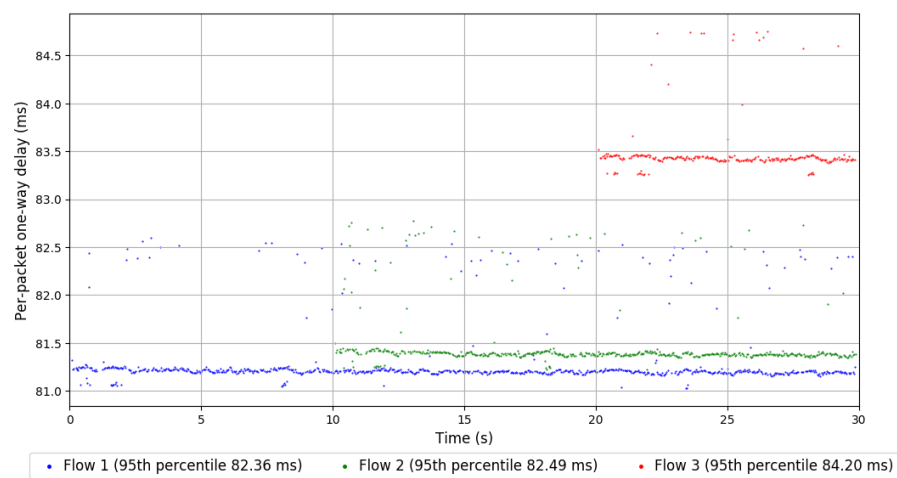
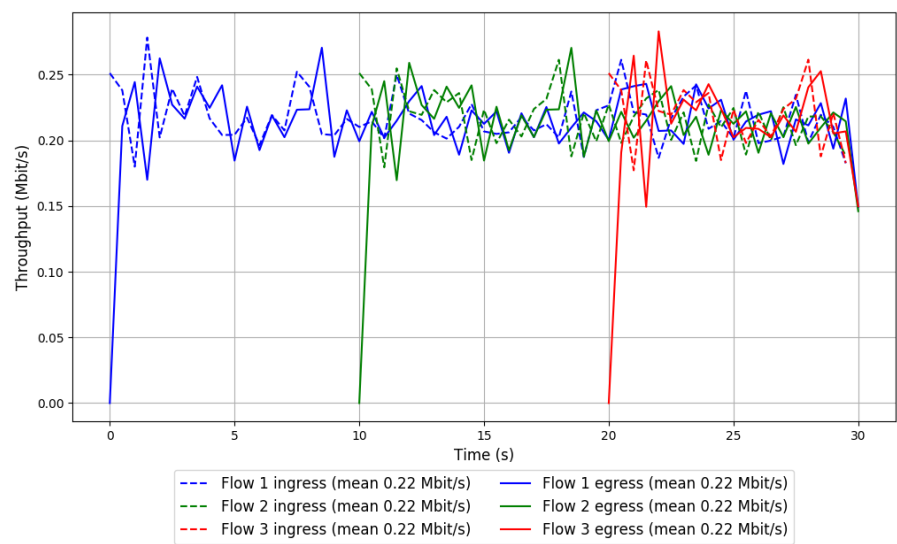
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.204 ms

Loss rate: 1.84%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-25 07:47:53

End at: 2018-07-25 07:48:23

Local clock offset: -7.009 ms

Remote clock offset: 4.031 ms

Below is generated by plot.py at 2018-07-25 11:21:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 83.796 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 83.315 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 83.269 ms

Loss rate: 0.65%

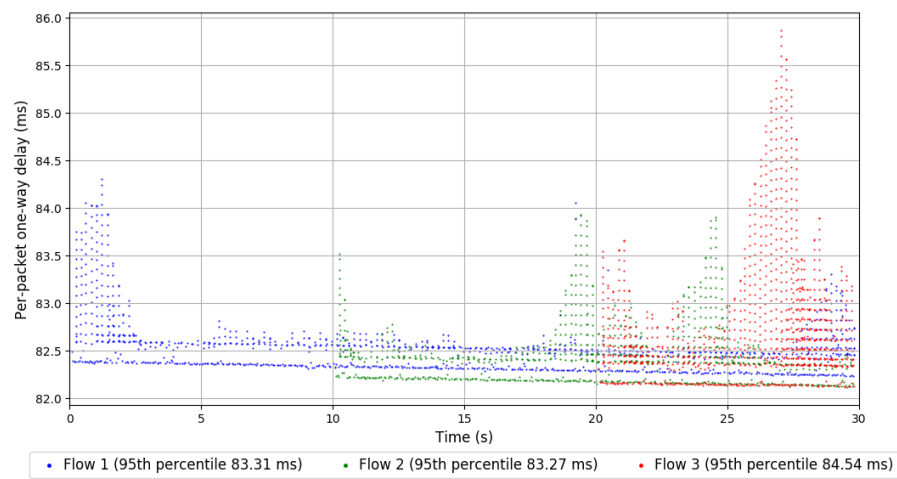
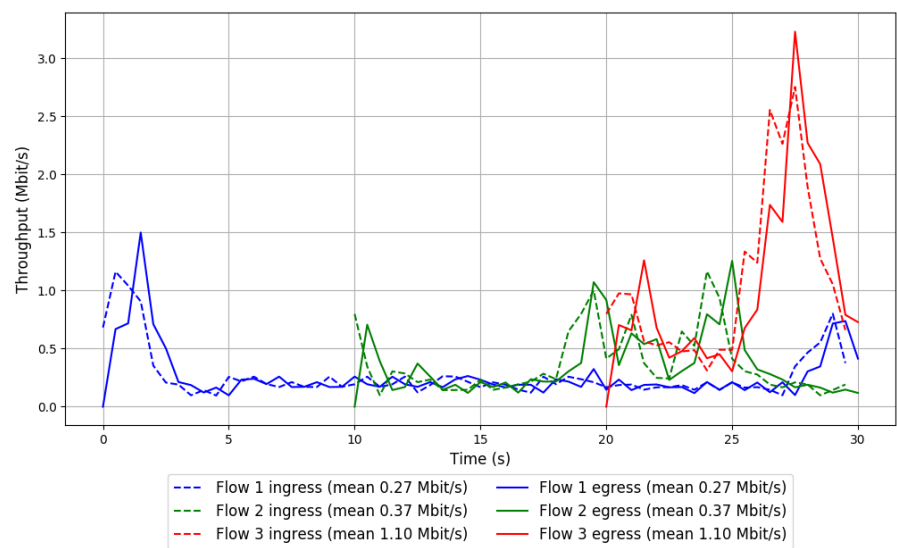
-- Flow 3:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 84.536 ms

Loss rate: 1.40%

Run 1: Report of Sprout — Data Link

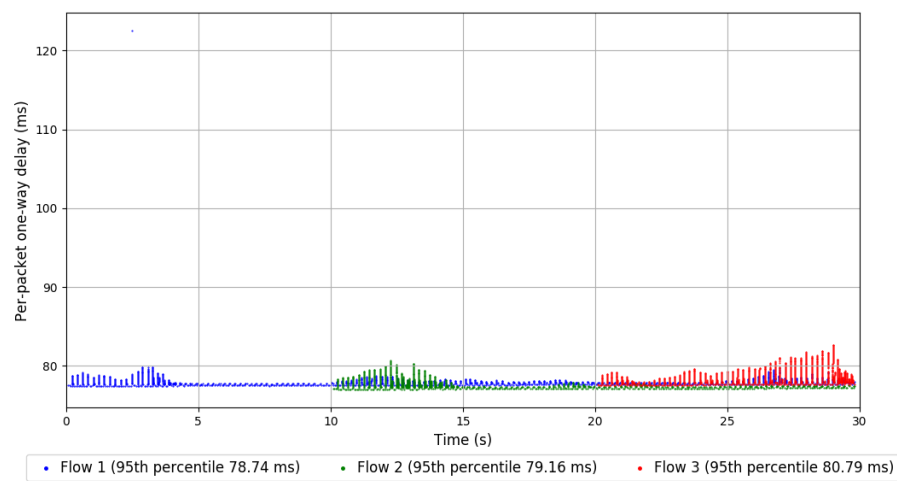
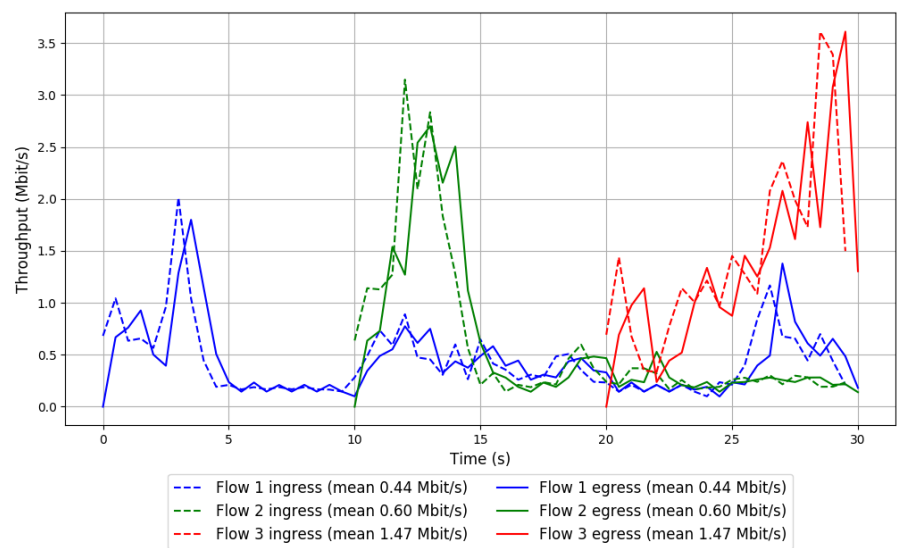


Run 2: Statistics of Sprout

Start at: 2018-07-25 08:08:59
End at: 2018-07-25 08:09:29
Local clock offset: -3.856 ms
Remote clock offset: 8.743 ms

Below is generated by plot.py at 2018-07-25 11:21:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 79.799 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 78.739 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 79.155 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 80.793 ms
Loss rate: 1.74%

Run 2: Report of Sprout — Data Link

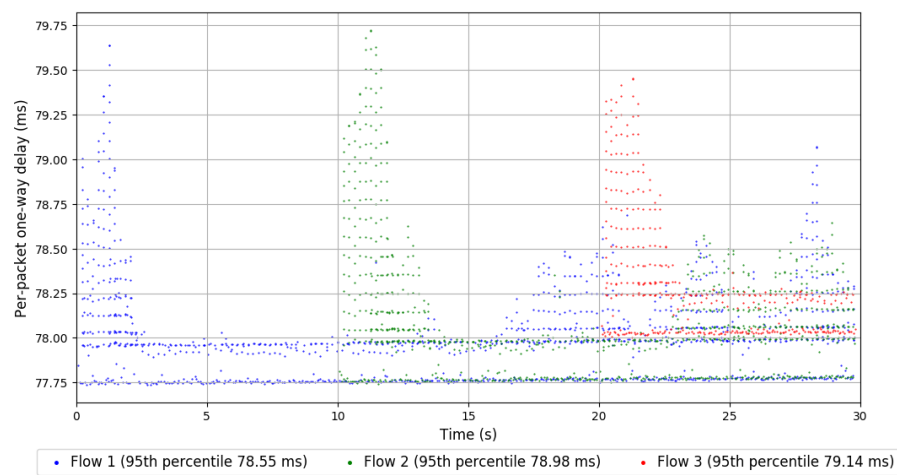
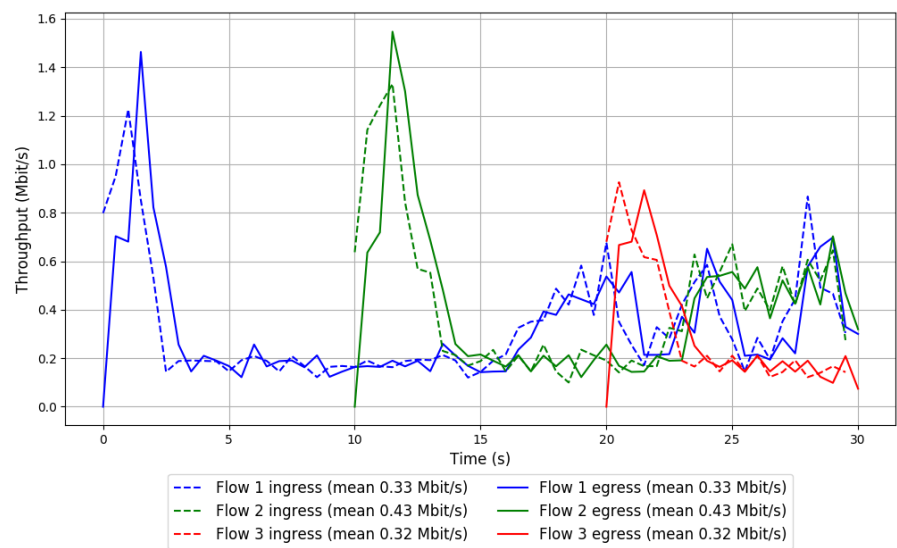


Run 3: Statistics of Sprout

Start at: 2018-07-25 08:30:08
End at: 2018-07-25 08:30:38
Local clock offset: -0.753 ms
Remote clock offset: 16.068 ms

```
# Below is generated by plot.py at 2018-07-25 11:21:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 78.831 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 78.545 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 78.978 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 79.140 ms
Loss rate: 1.11%
```

Run 3: Report of Sprout — Data Link

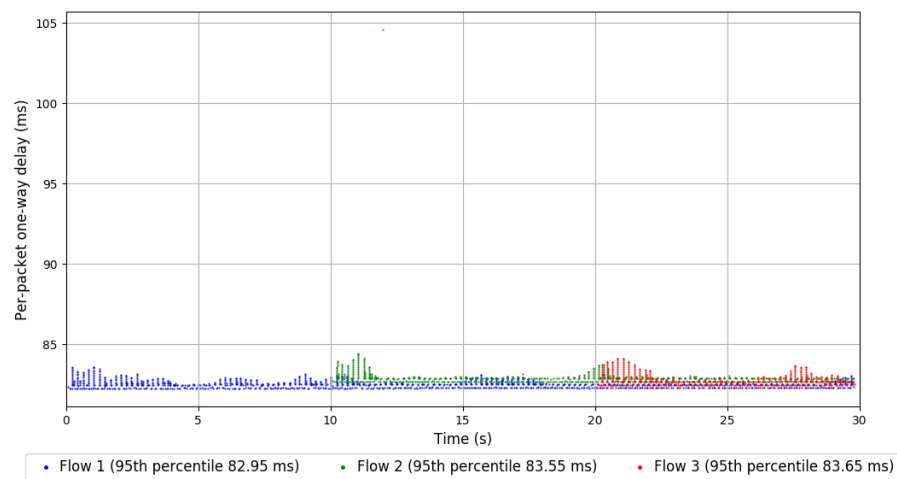
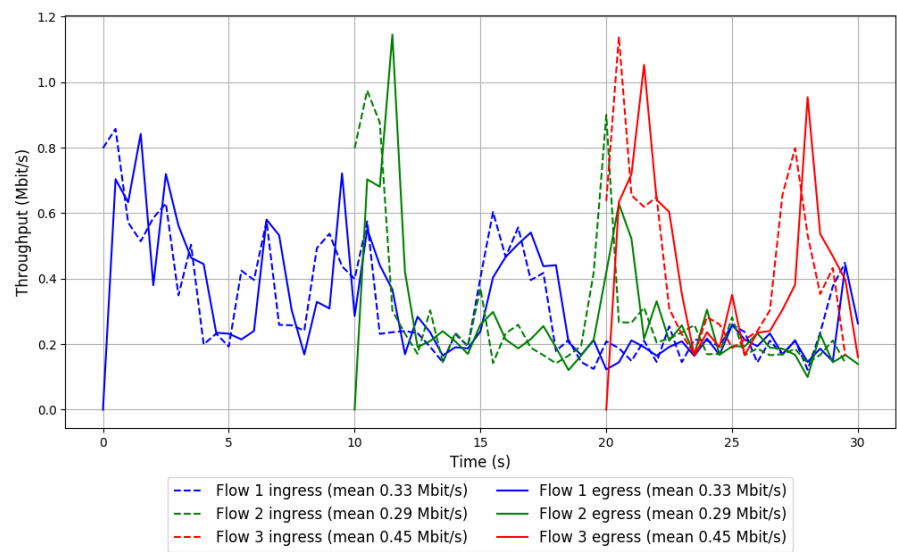


Run 4: Statistics of Sprout

Start at: 2018-07-25 08:51:33
End at: 2018-07-25 08:52:03
Local clock offset: -6.842 ms
Remote clock offset: 11.309 ms

```
# Below is generated by plot.py at 2018-07-25 11:21:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 83.353 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 82.946 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 83.547 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 83.652 ms
Loss rate: 0.47%
```

Run 4: Report of Sprout — Data Link

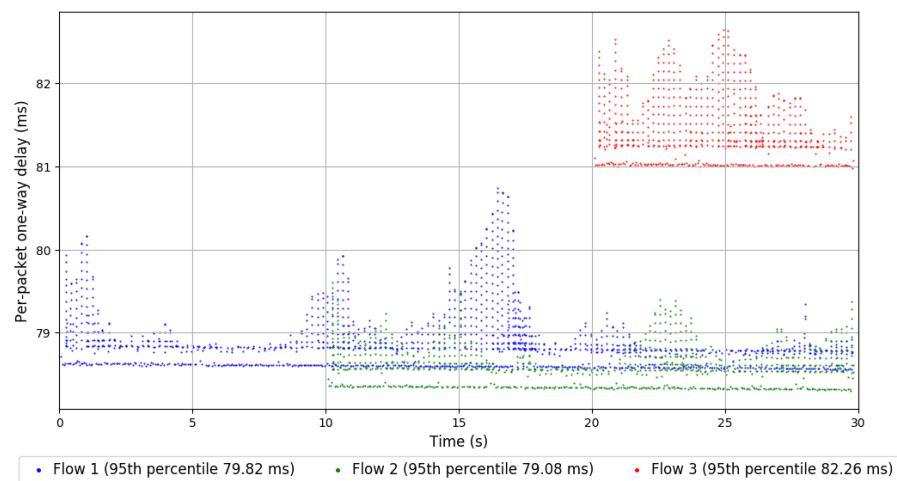
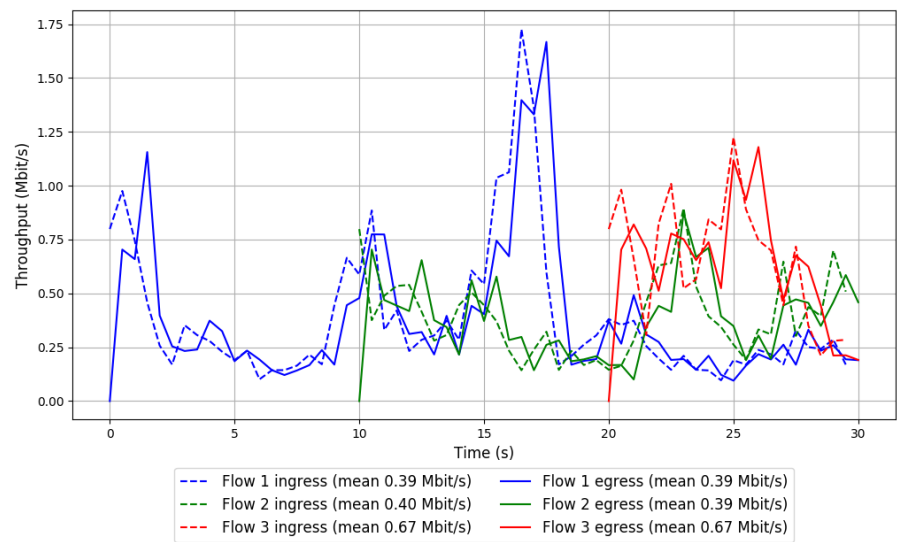


Run 5: Statistics of Sprout

Start at: 2018-07-25 09:12:50
End at: 2018-07-25 09:13:20
Local clock offset: -3.669 ms
Remote clock offset: 15.792 ms

Below is generated by plot.py at 2018-07-25 11:21:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 81.799 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 79.819 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 79.079 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 82.256 ms
Loss rate: 1.23%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-25 09:34:03

End at: 2018-07-25 09:34:33

Local clock offset: -3.21 ms

Remote clock offset: 2.058 ms

Below is generated by plot.py at 2018-07-25 11:21:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 85.610 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 83.274 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 86.166 ms

Loss rate: 0.47%

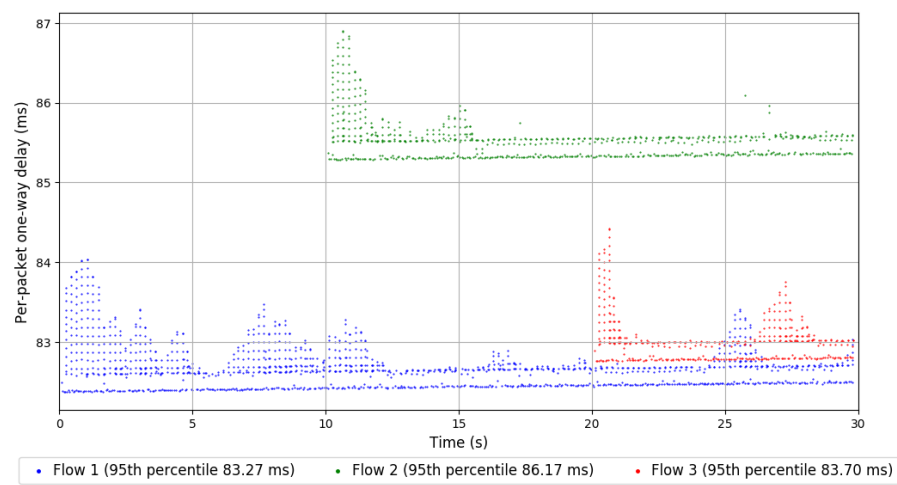
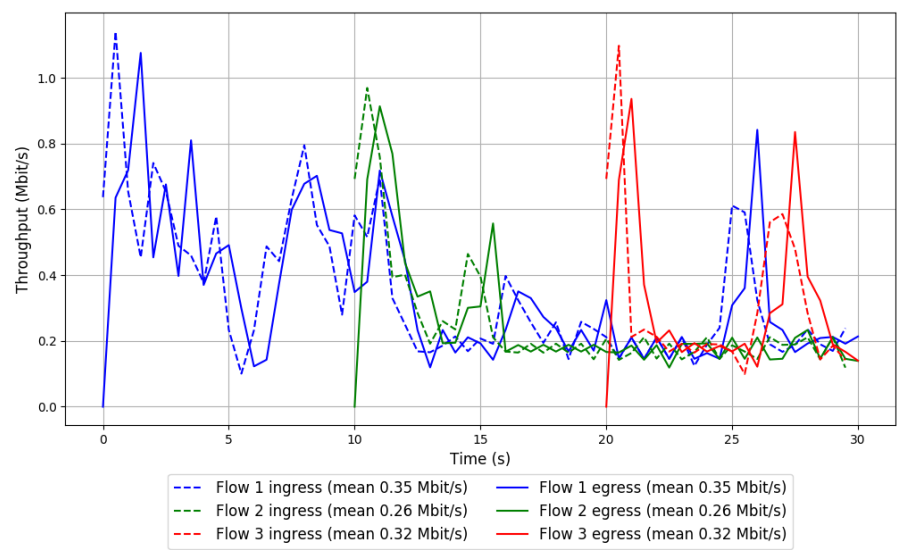
-- Flow 3:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 83.703 ms

Loss rate: 0.37%

Run 6: Report of Sprout — Data Link

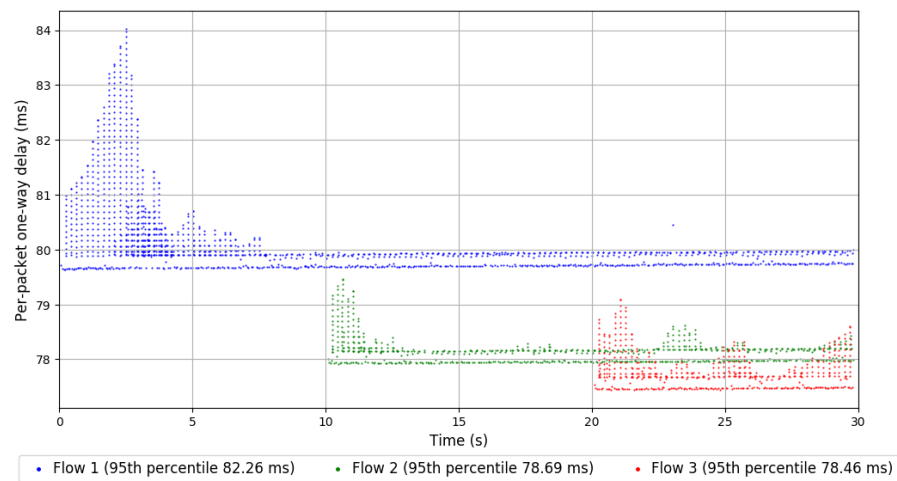
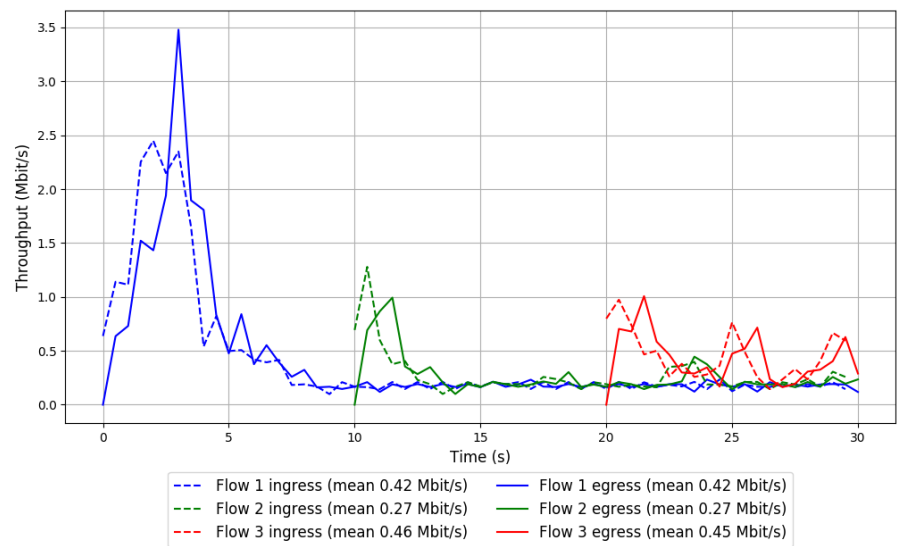


Run 7: Statistics of Sprout

Start at: 2018-07-25 09:55:20
End at: 2018-07-25 09:55:50
Local clock offset: -7.224 ms
Remote clock offset: 6.839 ms

Below is generated by plot.py at 2018-07-25 11:21:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 81.528 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 82.256 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 78.693 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 78.461 ms
Loss rate: 3.79%

Run 7: Report of Sprout — Data Link

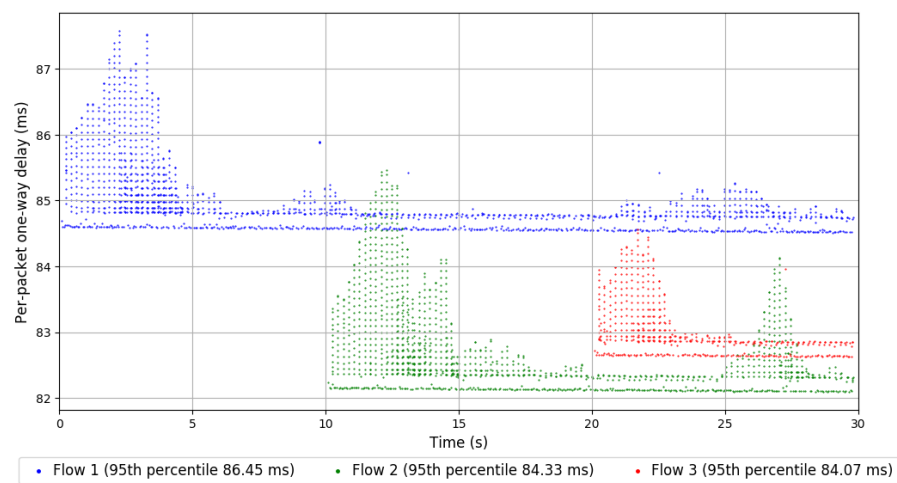
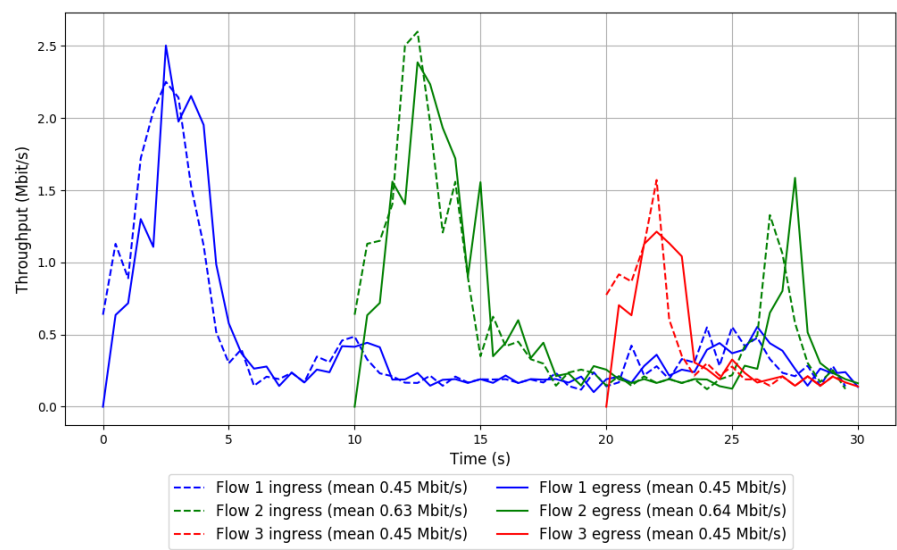


Run 8: Statistics of Sprout

Start at: 2018-07-25 10:16:39
End at: 2018-07-25 10:17:09
Local clock offset: -2.99 ms
Remote clock offset: 2.349 ms

```
# Below is generated by plot.py at 2018-07-25 11:21:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 85.855 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 86.447 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 84.335 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 84.072 ms
Loss rate: 0.81%
```

Run 8: Report of Sprout — Data Link

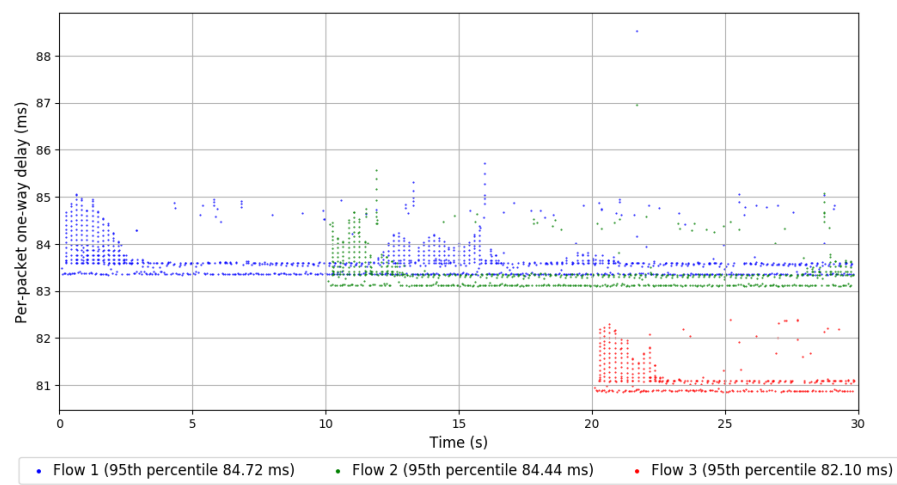
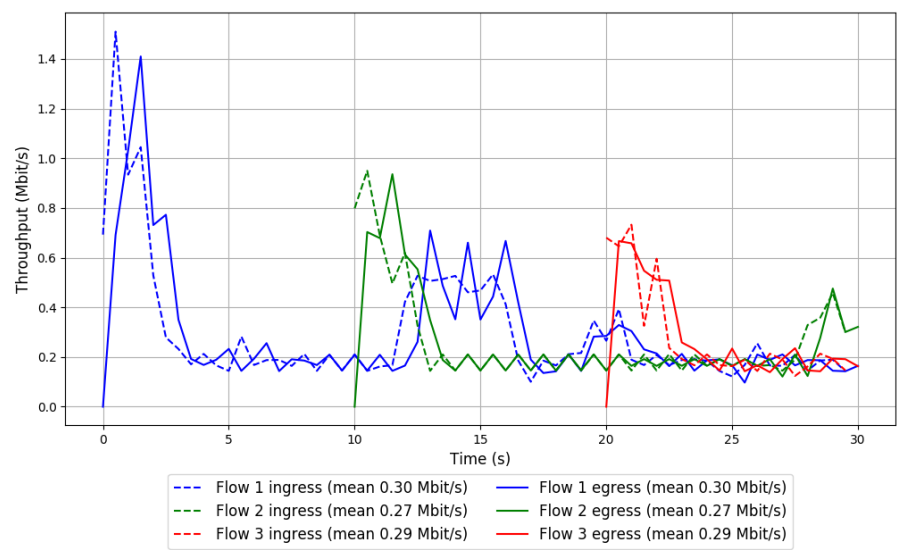


Run 9: Statistics of Sprout

Start at: 2018-07-25 10:38:04
End at: 2018-07-25 10:38:34
Local clock offset: -1.789 ms
Remote clock offset: 3.556 ms

Below is generated by plot.py at 2018-07-25 11:21:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 84.552 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 84.715 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 84.444 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 82.102 ms
Loss rate: 0.47%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-25 10:59:11

End at: 2018-07-25 10:59:41

Local clock offset: -1.279 ms

Remote clock offset: 9.439 ms

Below is generated by plot.py at 2018-07-25 11:21:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 81.709 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 81.709 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 81.587 ms

Loss rate: 0.04%

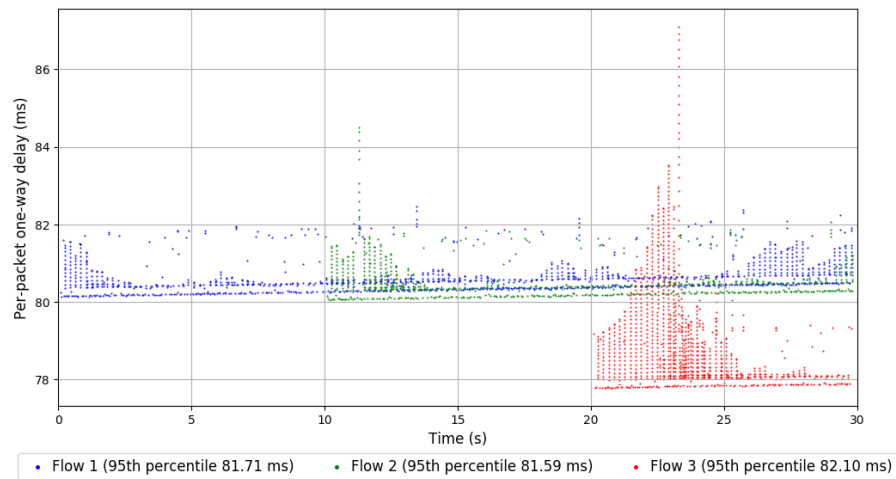
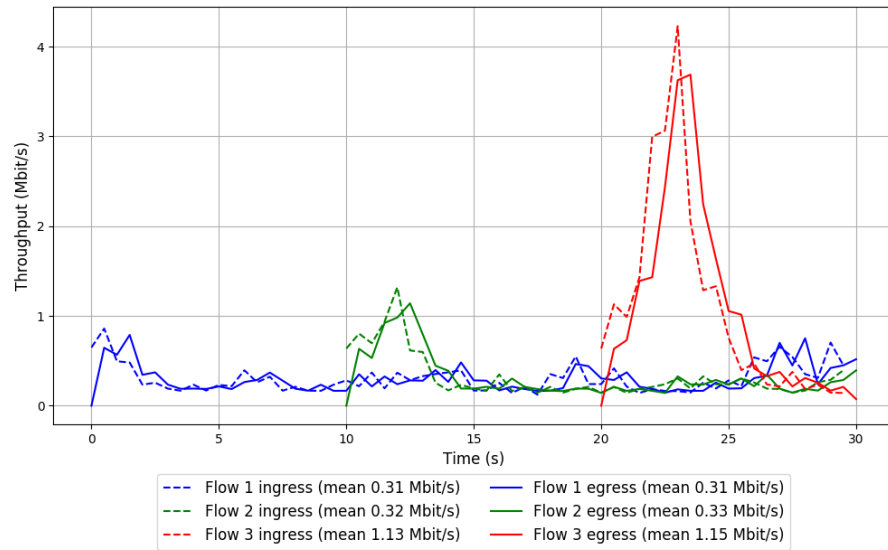
-- Flow 3:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 82.104 ms

Loss rate: 0.32%

Run 10: Report of Sprout — Data Link

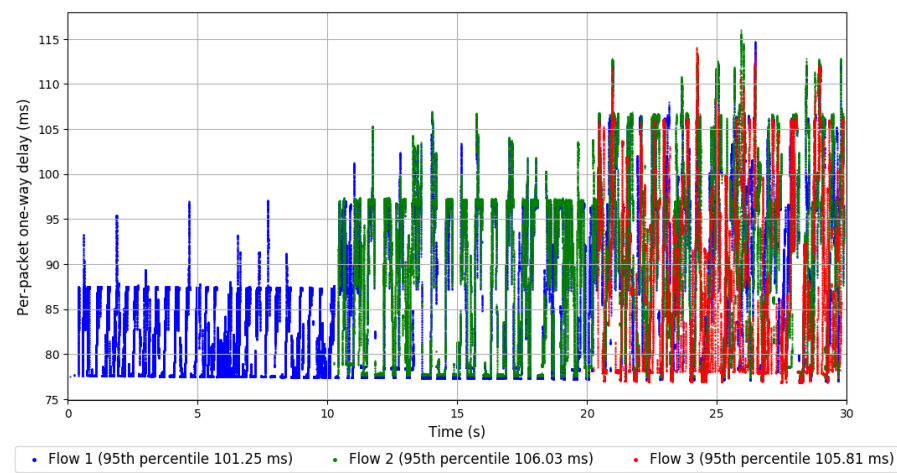
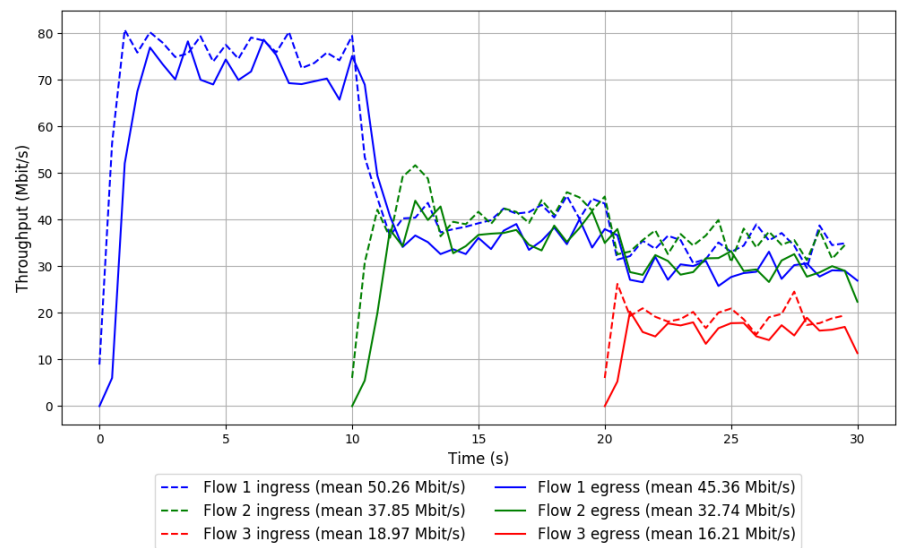


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-25 07:34:04
End at: 2018-07-25 07:34:34
Local clock offset: -7.053 ms
Remote clock offset: 17.215 ms

# Below is generated by plot.py at 2018-07-25 11:22:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.42 Mbit/s
95th percentile per-packet one-way delay: 104.560 ms
Loss rate: 11.97%
-- Flow 1:
Average throughput: 45.36 Mbit/s
95th percentile per-packet one-way delay: 101.247 ms
Loss rate: 10.28%
-- Flow 2:
Average throughput: 32.74 Mbit/s
95th percentile per-packet one-way delay: 106.027 ms
Loss rate: 14.30%
-- Flow 3:
Average throughput: 16.21 Mbit/s
95th percentile per-packet one-way delay: 105.806 ms
Loss rate: 16.08%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-25 07:55:15

End at: 2018-07-25 07:55:45

Local clock offset: -7.083 ms

Remote clock offset: 2.051 ms

Below is generated by plot.py at 2018-07-25 11:23:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.94 Mbit/s

95th percentile per-packet one-way delay: 111.489 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 51.14 Mbit/s

95th percentile per-packet one-way delay: 111.304 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 36.95 Mbit/s

95th percentile per-packet one-way delay: 111.054 ms

Loss rate: 0.87%

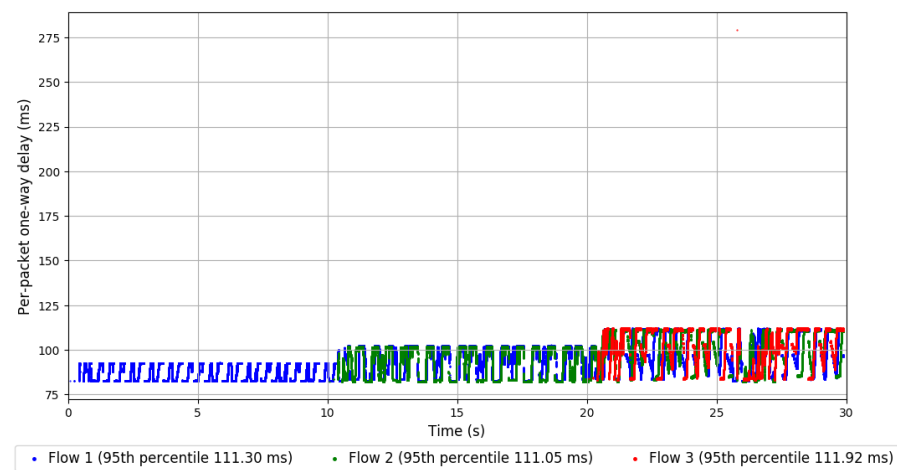
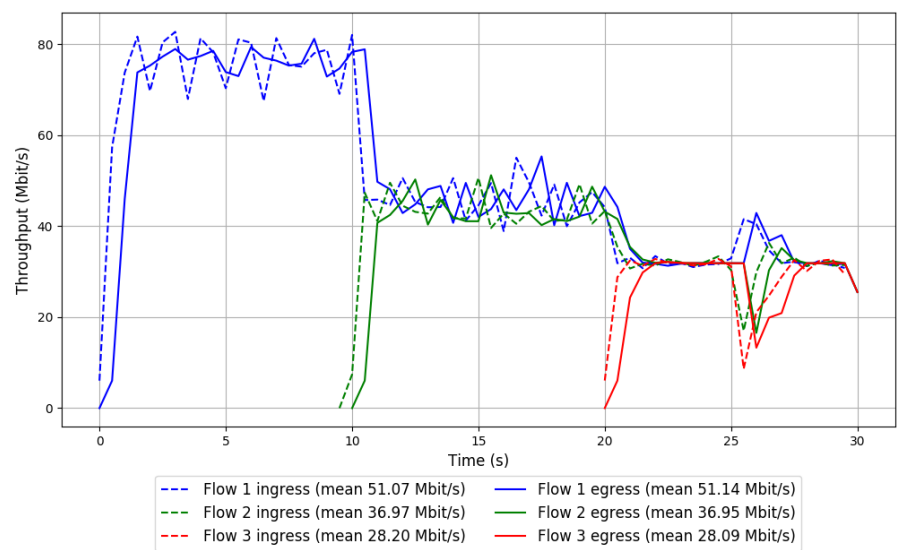
-- Flow 3:

Average throughput: 28.09 Mbit/s

95th percentile per-packet one-way delay: 111.922 ms

Loss rate: 2.02%

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

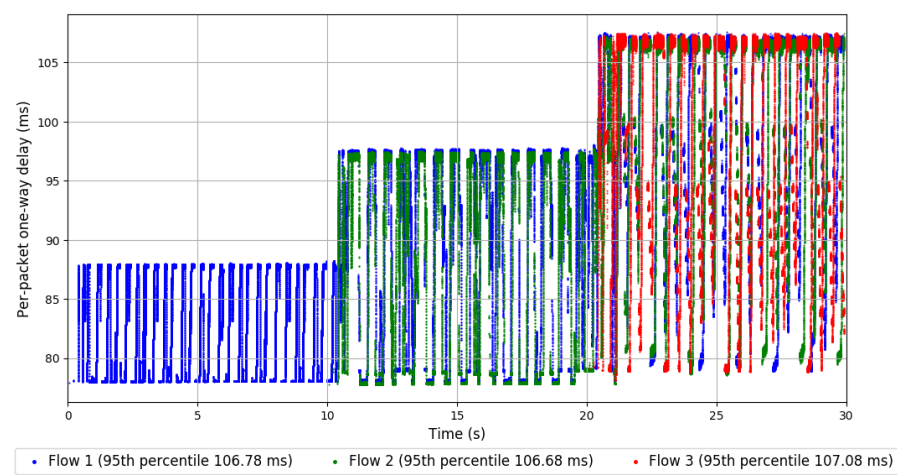
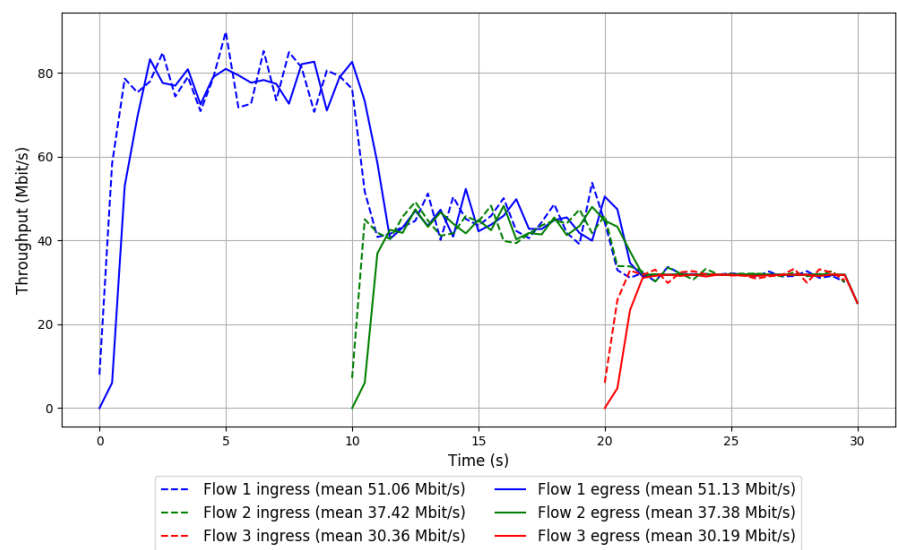


Run 3: Statistics of TaoVA-100x

Start at: 2018-07-25 08:16:23
End at: 2018-07-25 08:16:53
Local clock offset: -2.248 ms
Remote clock offset: 12.623 ms

Below is generated by plot.py at 2018-07-25 11:23:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.90 Mbit/s
95th percentile per-packet one-way delay: 106.845 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 51.13 Mbit/s
95th percentile per-packet one-way delay: 106.782 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 37.38 Mbit/s
95th percentile per-packet one-way delay: 106.677 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 30.19 Mbit/s
95th percentile per-packet one-way delay: 107.075 ms
Loss rate: 2.19%

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

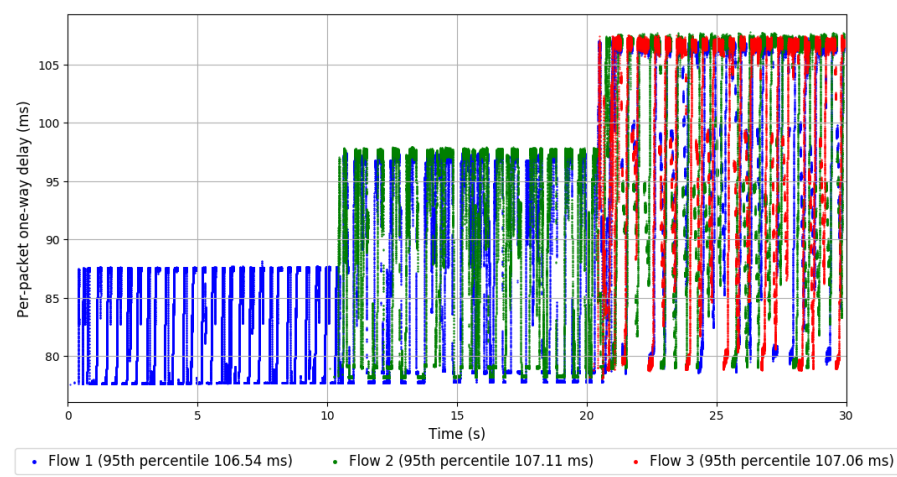
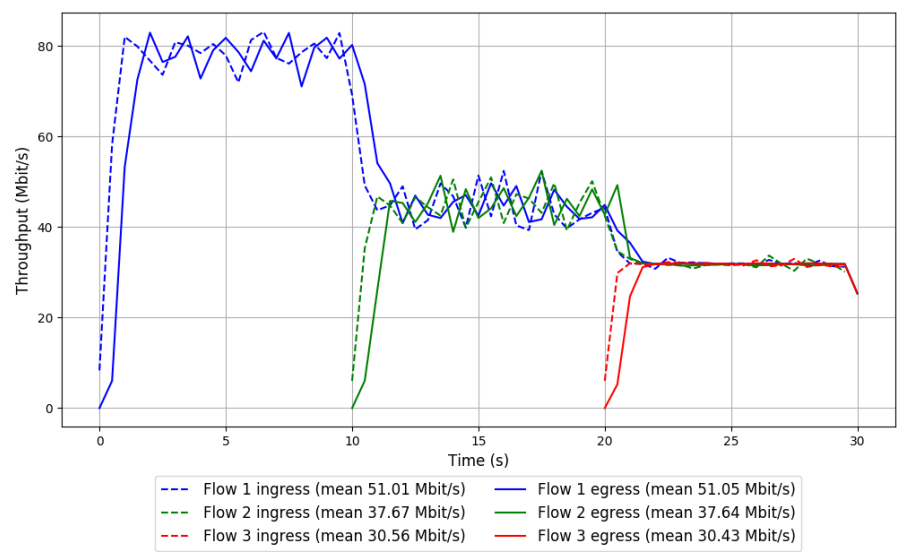


Run 4: Statistics of TaoVA-100x

Start at: 2018-07-25 08:37:31
End at: 2018-07-25 08:38:01
Local clock offset: -3.957 ms
Remote clock offset: 16.995 ms

Below is generated by plot.py at 2018-07-25 11:23:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.08 Mbit/s
95th percentile per-packet one-way delay: 106.903 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 51.05 Mbit/s
95th percentile per-packet one-way delay: 106.542 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 37.64 Mbit/s
95th percentile per-packet one-way delay: 107.108 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 30.43 Mbit/s
95th percentile per-packet one-way delay: 107.061 ms
Loss rate: 2.05%

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

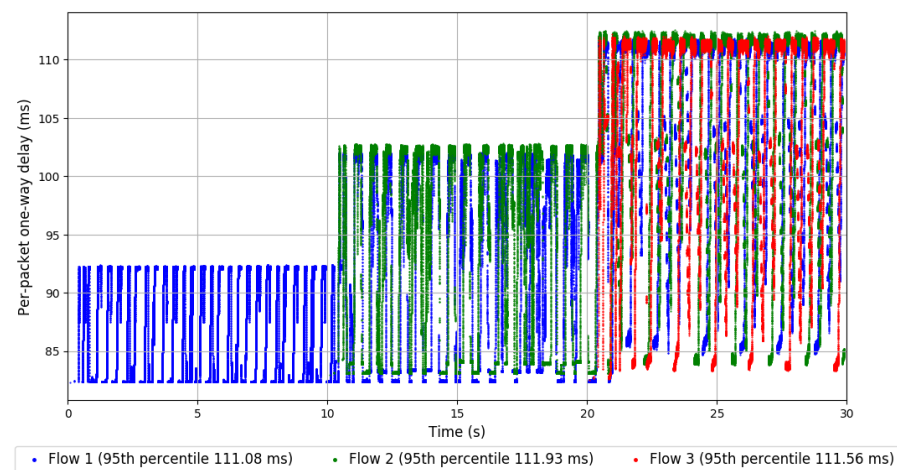
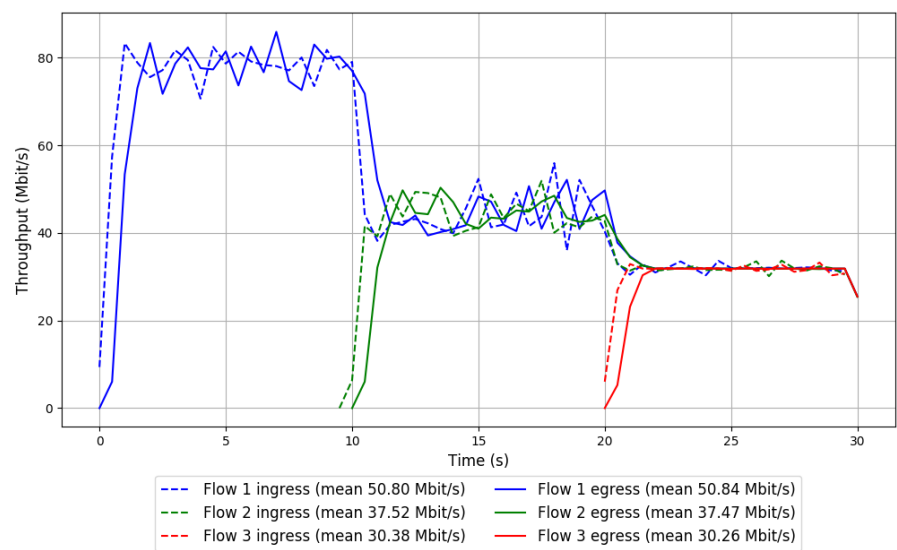


Run 5: Statistics of TaoVA-100x

Start at: 2018-07-25 08:58:57
End at: 2018-07-25 08:59:27
Local clock offset: -7.42 ms
Remote clock offset: 11.304 ms

Below is generated by plot.py at 2018-07-25 11:23:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.70 Mbit/s
95th percentile per-packet one-way delay: 111.576 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 50.84 Mbit/s
95th percentile per-packet one-way delay: 111.076 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 111.933 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 30.26 Mbit/s
95th percentile per-packet one-way delay: 111.561 ms
Loss rate: 2.01%

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

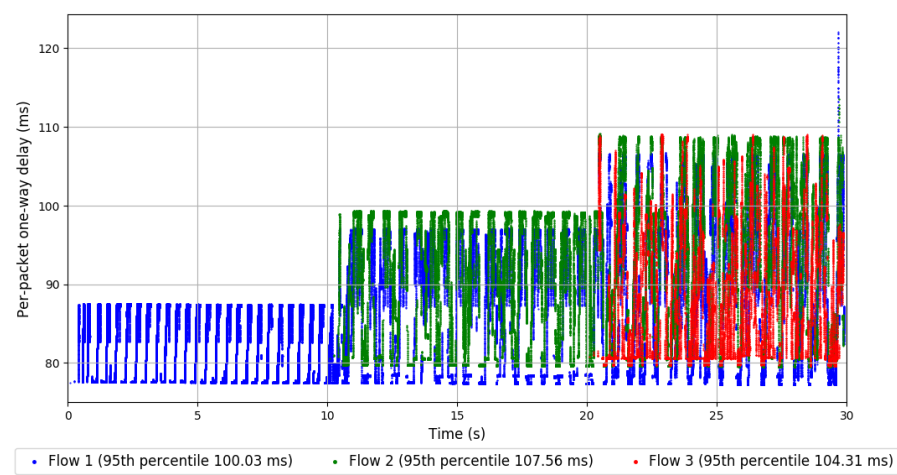
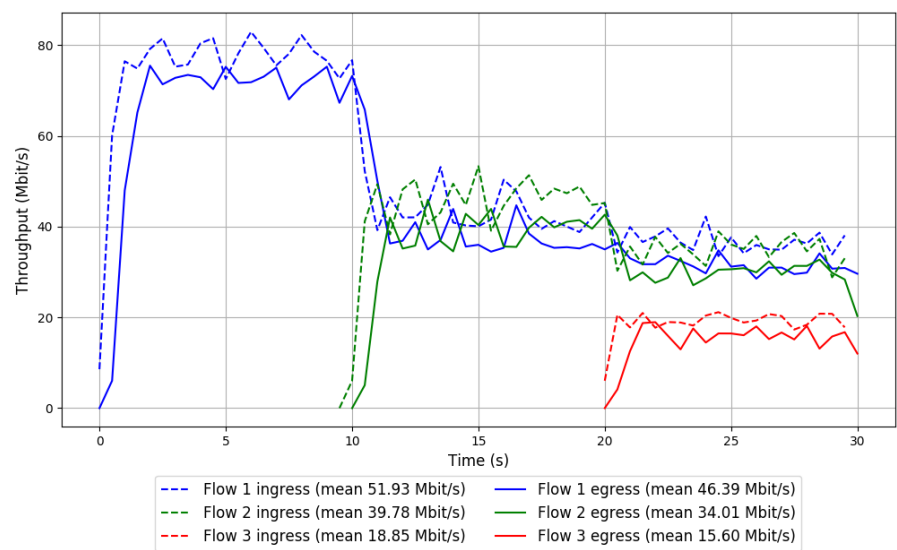


Run 6: Statistics of TaoVA-100x

Start at: 2018-07-25 09:20:14
End at: 2018-07-25 09:20:44
Local clock offset: -2.647 ms
Remote clock offset: 11.524 ms

Below is generated by plot.py at 2018-07-25 11:23:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.09 Mbit/s
95th percentile per-packet one-way delay: 103.979 ms
Loss rate: 12.99%
-- Flow 1:
Average throughput: 46.39 Mbit/s
95th percentile per-packet one-way delay: 100.031 ms
Loss rate: 11.14%
-- Flow 2:
Average throughput: 34.01 Mbit/s
95th percentile per-packet one-way delay: 107.560 ms
Loss rate: 15.28%
-- Flow 3:
Average throughput: 15.60 Mbit/s
95th percentile per-packet one-way delay: 104.312 ms
Loss rate: 18.61%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-25 09:41:35

End at: 2018-07-25 09:42:05

Local clock offset: -5.668 ms

Remote clock offset: 2.144 ms

Below is generated by plot.py at 2018-07-25 11:23:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.89 Mbit/s

95th percentile per-packet one-way delay: 112.708 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 112.655 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 38.04 Mbit/s

95th percentile per-packet one-way delay: 109.939 ms

Loss rate: 0.83%

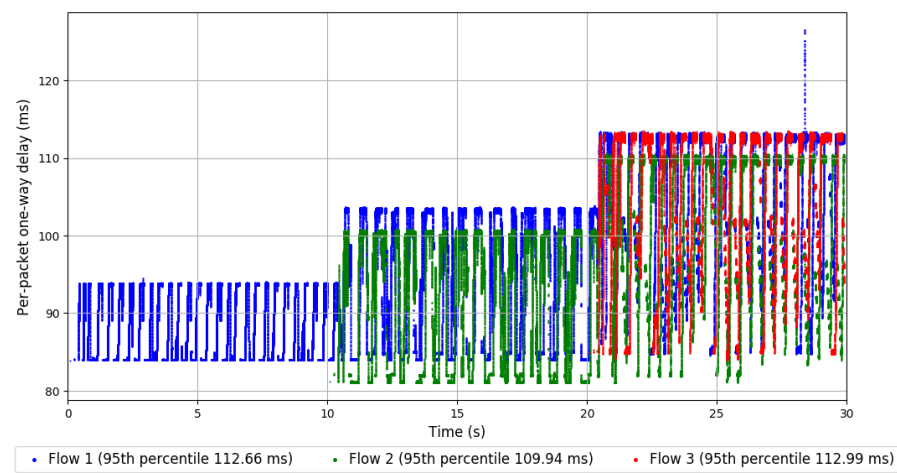
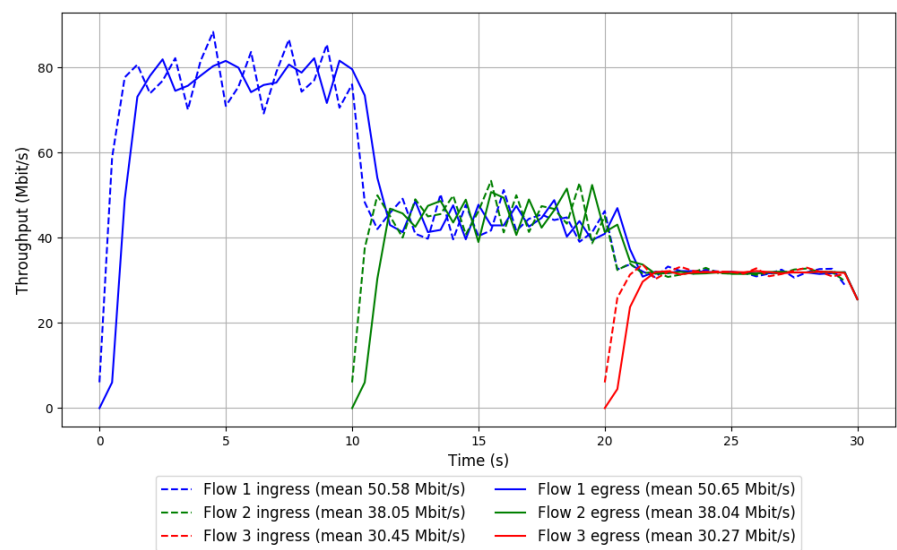
-- Flow 3:

Average throughput: 30.27 Mbit/s

95th percentile per-packet one-way delay: 112.986 ms

Loss rate: 2.24%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-25 10:02:43

End at: 2018-07-25 10:03:13

Local clock offset: -6.903 ms

Remote clock offset: 7.15 ms

Below is generated by plot.py at 2018-07-25 11:23:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.89 Mbit/s

95th percentile per-packet one-way delay: 104.198 ms

Loss rate: 12.54%

-- Flow 1:

Average throughput: 46.89 Mbit/s

95th percentile per-packet one-way delay: 102.491 ms

Loss rate: 10.83%

-- Flow 2:

Average throughput: 33.46 Mbit/s

95th percentile per-packet one-way delay: 105.496 ms

Loss rate: 14.96%

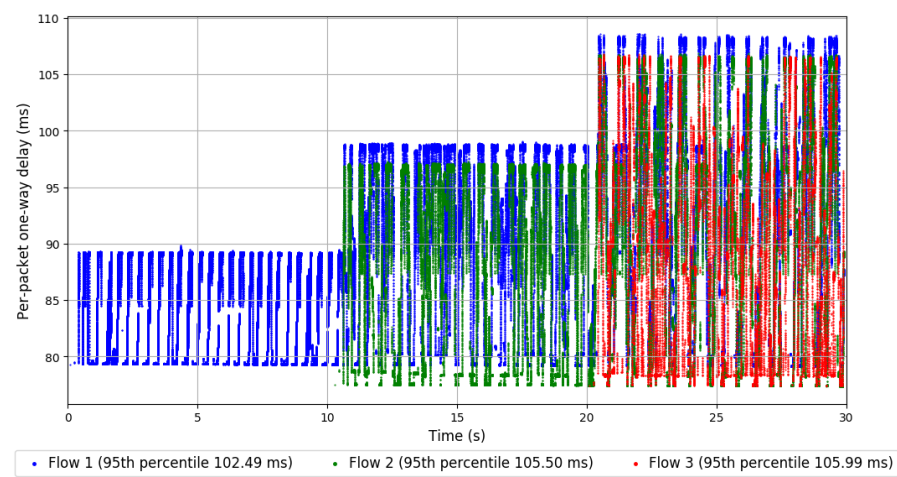
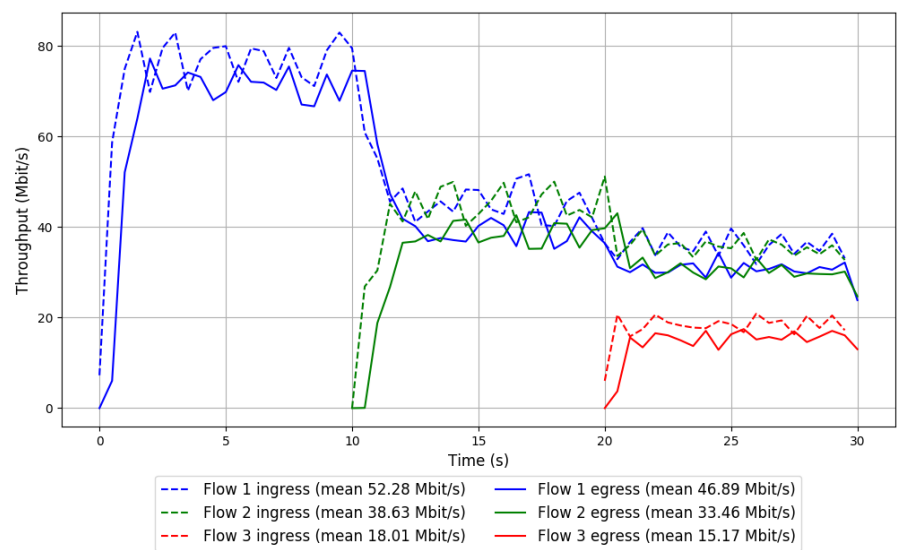
-- Flow 3:

Average throughput: 15.17 Mbit/s

95th percentile per-packet one-way delay: 105.991 ms

Loss rate: 17.17%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-25 10:24:03

End at: 2018-07-25 10:24:33

Local clock offset: -2.304 ms

Remote clock offset: 2.256 ms

Below is generated by plot.py at 2018-07-25 11:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.64 Mbit/s

95th percentile per-packet one-way delay: 113.500 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 50.51 Mbit/s

95th percentile per-packet one-way delay: 113.018 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 37.77 Mbit/s

95th percentile per-packet one-way delay: 113.560 ms

Loss rate: 0.88%

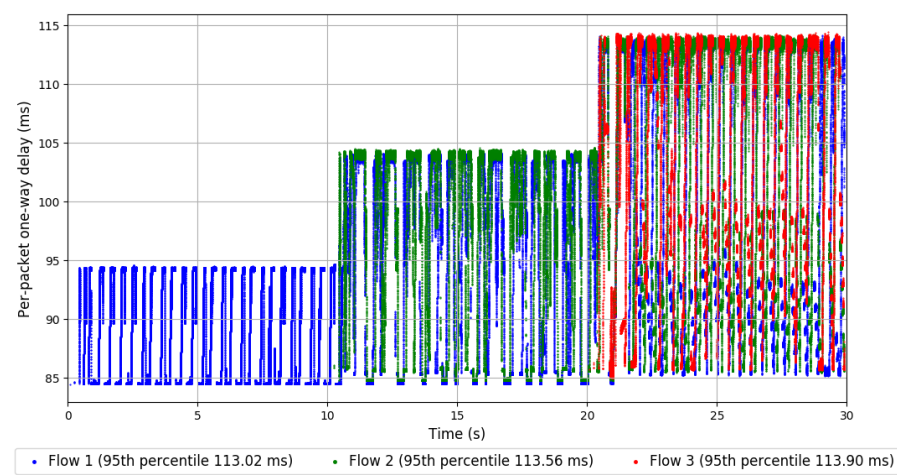
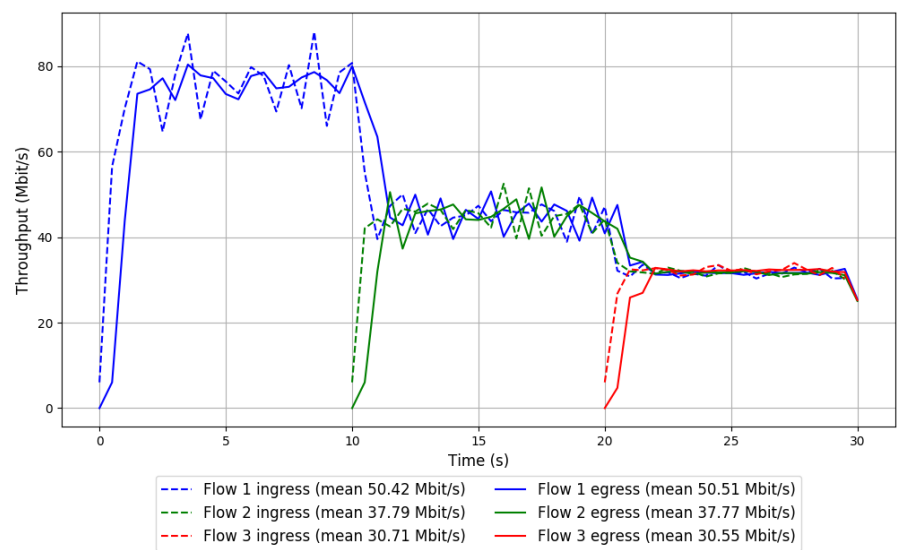
-- Flow 3:

Average throughput: 30.55 Mbit/s

95th percentile per-packet one-way delay: 113.902 ms

Loss rate: 2.17%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-25 10:45:25

End at: 2018-07-25 10:45:55

Local clock offset: -1.593 ms

Remote clock offset: 7.283 ms

Below is generated by plot.py at 2018-07-25 11:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.22 Mbit/s

95th percentile per-packet one-way delay: 113.171 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 46.70 Mbit/s

95th percentile per-packet one-way delay: 111.648 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 33.56 Mbit/s

95th percentile per-packet one-way delay: 114.139 ms

Loss rate: 1.01%

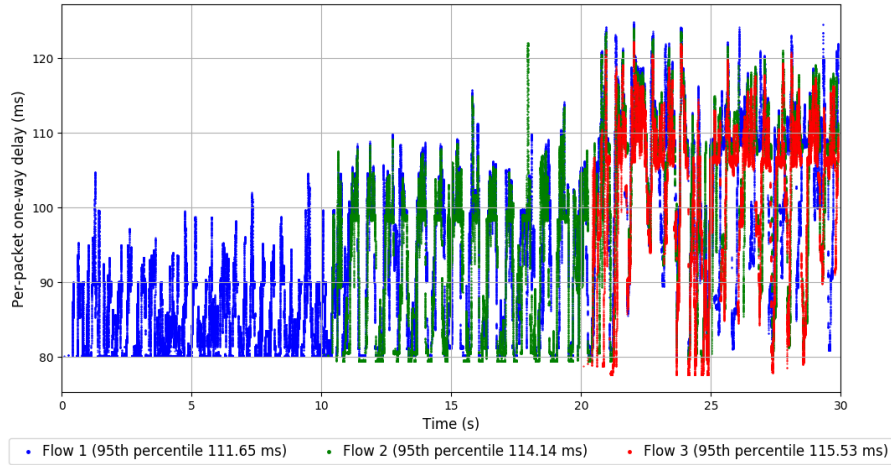
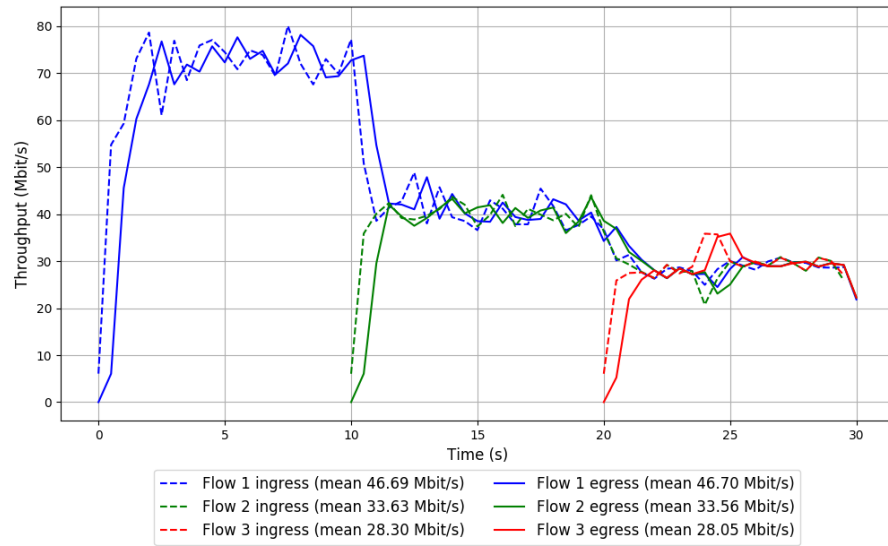
-- Flow 3:

Average throughput: 28.05 Mbit/s

95th percentile per-packet one-way delay: 115.531 ms

Loss rate: 2.49%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-25 07:46:40

End at: 2018-07-25 07:47:10

Local clock offset: -7.01 ms

Remote clock offset: 9.206 ms

Below is generated by plot.py at 2018-07-25 11:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.04 Mbit/s

95th percentile per-packet one-way delay: 85.307 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 27.83 Mbit/s

95th percentile per-packet one-way delay: 85.306 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 26.31 Mbit/s

95th percentile per-packet one-way delay: 79.278 ms

Loss rate: 1.07%

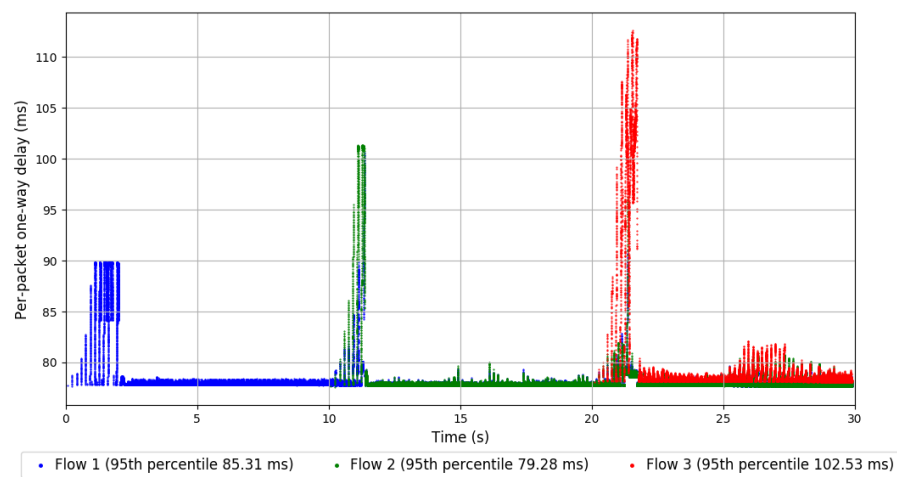
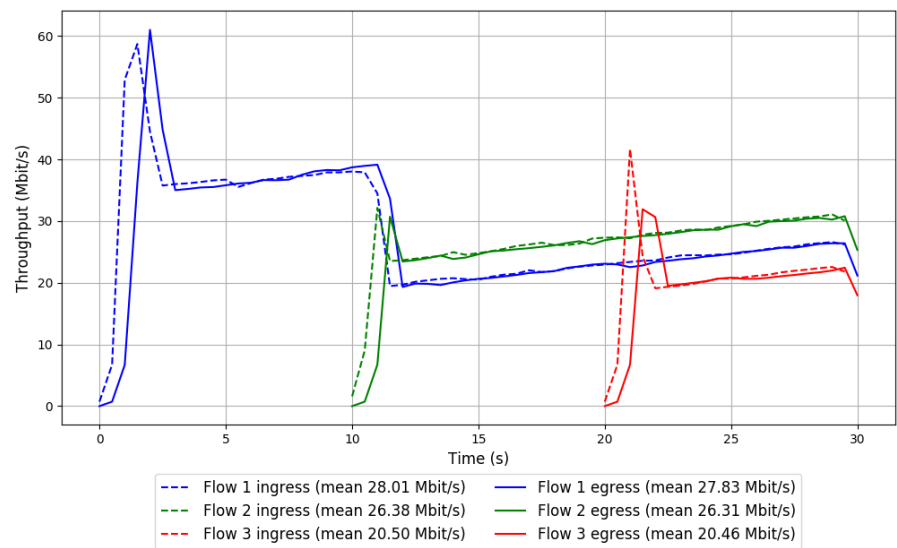
-- Flow 3:

Average throughput: 20.46 Mbit/s

95th percentile per-packet one-way delay: 102.525 ms

Loss rate: 1.84%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-25 08:07:46

End at: 2018-07-25 08:08:16

Local clock offset: -4.28 ms

Remote clock offset: 7.691 ms

Below is generated by plot.py at 2018-07-25 11:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.35 Mbit/s

95th percentile per-packet one-way delay: 89.066 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 34.54 Mbit/s

95th percentile per-packet one-way delay: 86.930 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 23.54 Mbit/s

95th percentile per-packet one-way delay: 91.161 ms

Loss rate: 0.96%

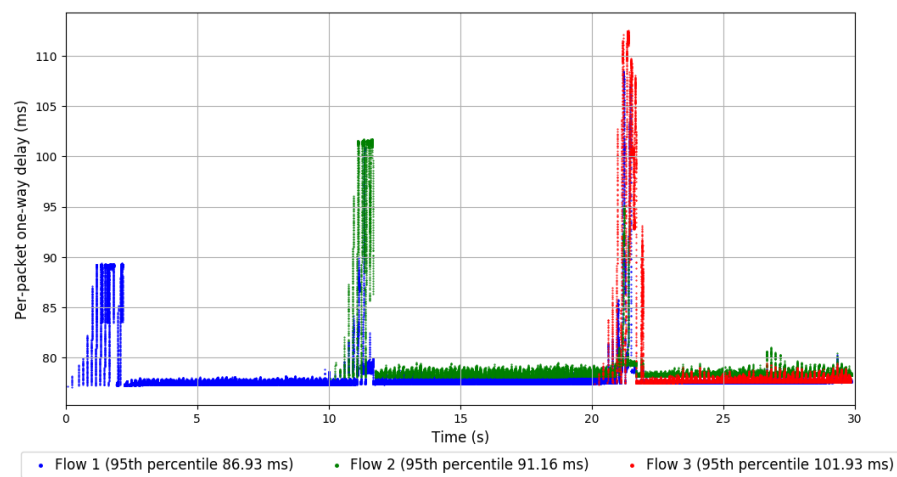
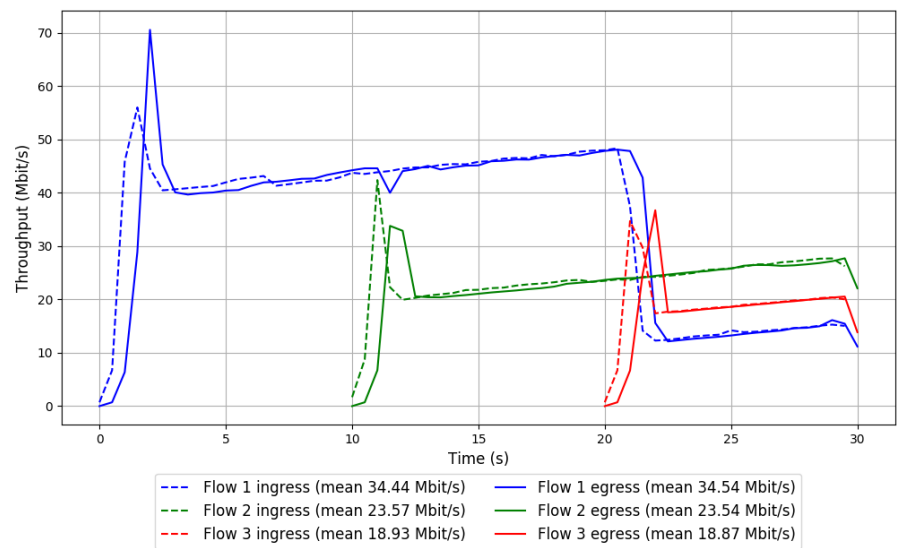
-- Flow 3:

Average throughput: 18.87 Mbit/s

95th percentile per-packet one-way delay: 101.932 ms

Loss rate: 1.98%

Run 2: Report of TCP Vegas — Data Link

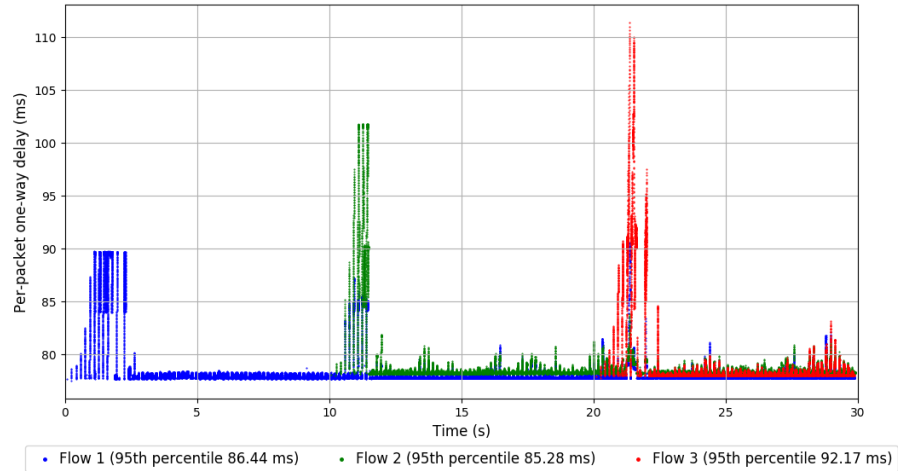
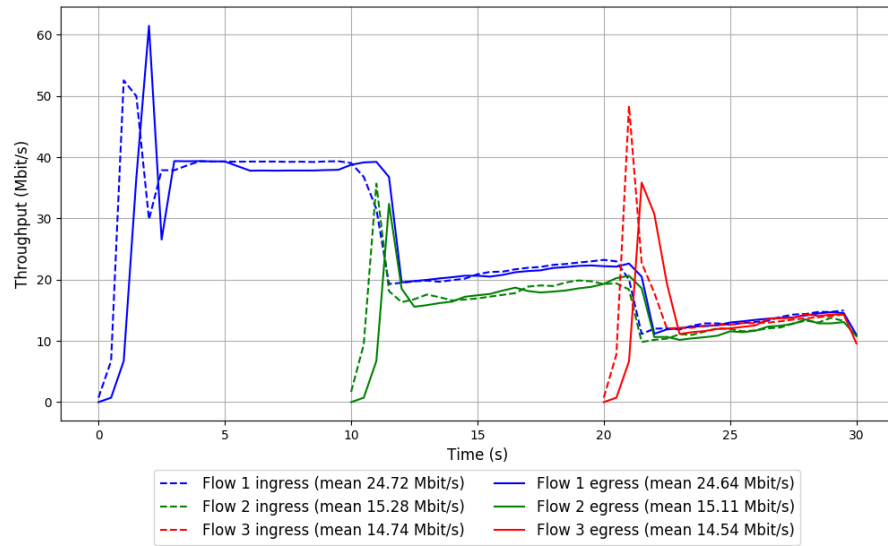


Run 3: Statistics of TCP Vegas

Start at: 2018-07-25 08:28:56
End at: 2018-07-25 08:29:26
Local clock offset: -0.883 ms
Remote clock offset: 15.872 ms

Below is generated by plot.py at 2018-07-25 11:24:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.43 Mbit/s
95th percentile per-packet one-way delay: 88.920 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 86.441 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 15.11 Mbit/s
95th percentile per-packet one-way delay: 85.275 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 14.54 Mbit/s
95th percentile per-packet one-way delay: 92.172 ms
Loss rate: 3.03%

Run 3: Report of TCP Vegas — Data Link

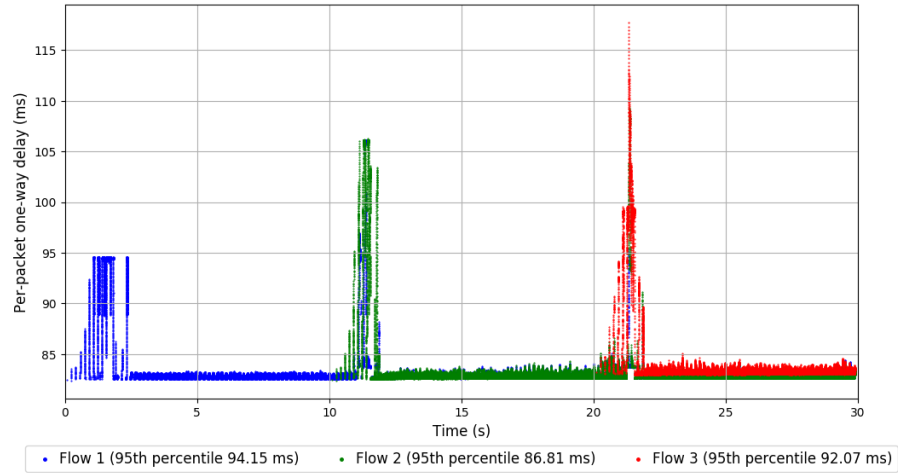
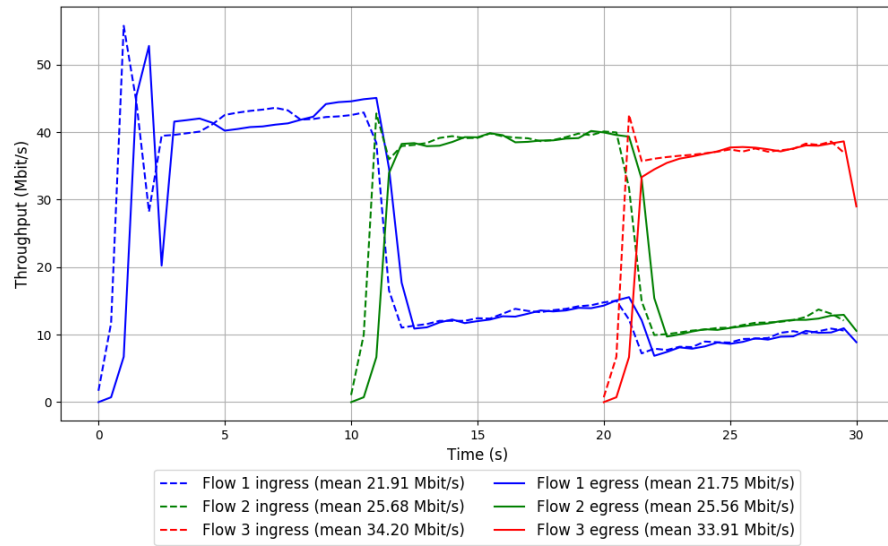


Run 4: Statistics of TCP Vegas

Start at: 2018-07-25 08:50:20
End at: 2018-07-25 08:50:50
Local clock offset: -6.703 ms
Remote clock offset: 11.451 ms

Below is generated by plot.py at 2018-07-25 11:24:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.88 Mbit/s
95th percentile per-packet one-way delay: 92.649 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 21.75 Mbit/s
95th percentile per-packet one-way delay: 94.151 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 25.56 Mbit/s
95th percentile per-packet one-way delay: 86.807 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 33.91 Mbit/s
95th percentile per-packet one-way delay: 92.073 ms
Loss rate: 2.47%

Run 4: Report of TCP Vegas — Data Link

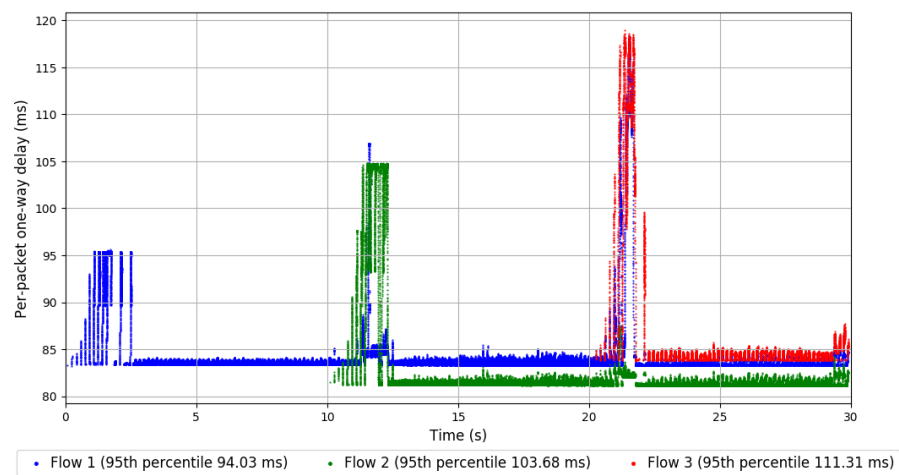
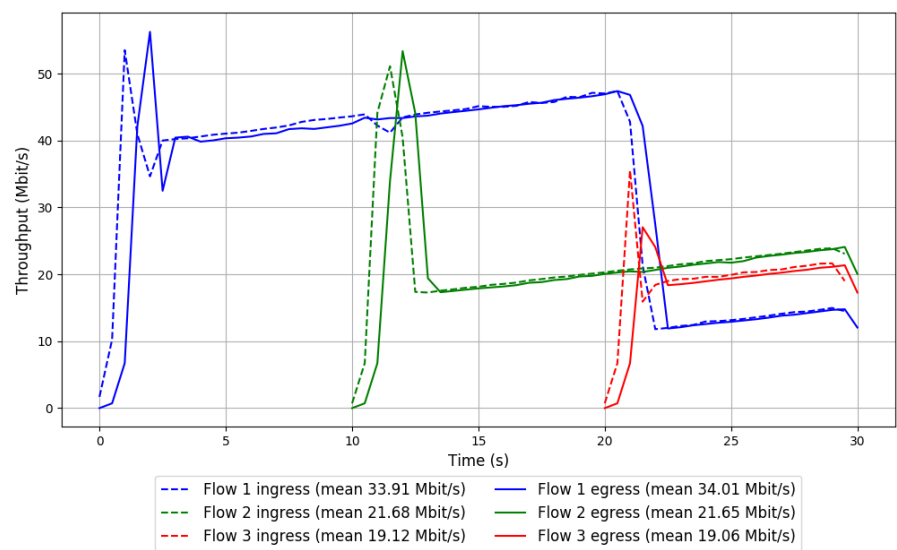


Run 5: Statistics of TCP Vegas

Start at: 2018-07-25 09:11:36
End at: 2018-07-25 09:12:06
Local clock offset: -3.946 ms
Remote clock offset: 13.069 ms

Below is generated by plot.py at 2018-07-25 11:24:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.65 Mbit/s
95th percentile per-packet one-way delay: 95.487 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 34.01 Mbit/s
95th percentile per-packet one-way delay: 94.028 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 21.65 Mbit/s
95th percentile per-packet one-way delay: 103.679 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 19.06 Mbit/s
95th percentile per-packet one-way delay: 111.313 ms
Loss rate: 1.94%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-25 09:32:49

End at: 2018-07-25 09:33:19

Local clock offset: -2.581 ms

Remote clock offset: 2.338 ms

Below is generated by plot.py at 2018-07-25 11:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.45 Mbit/s

95th percentile per-packet one-way delay: 96.804 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 37.24 Mbit/s

95th percentile per-packet one-way delay: 94.891 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 27.86 Mbit/s

95th percentile per-packet one-way delay: 97.376 ms

Loss rate: 0.65%

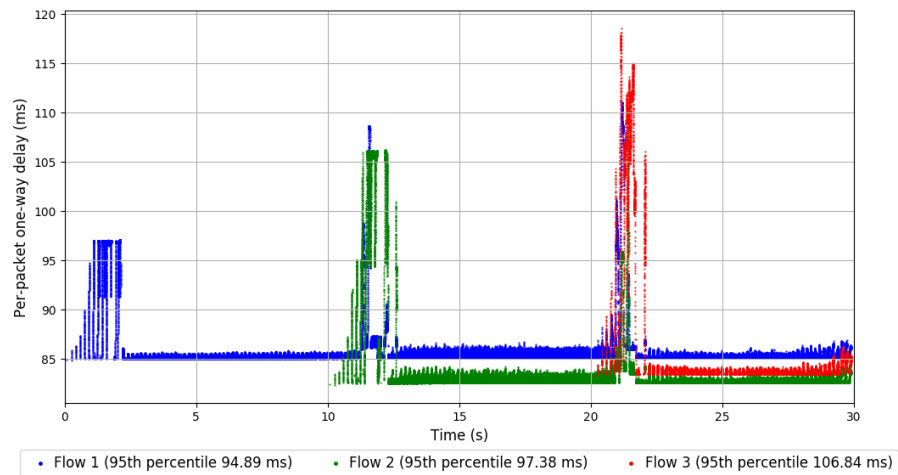
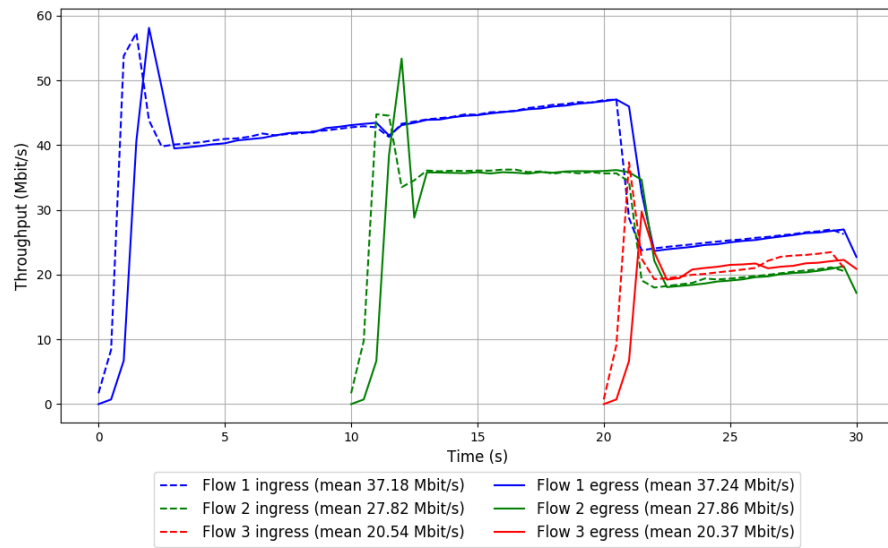
-- Flow 3:

Average throughput: 20.37 Mbit/s

95th percentile per-packet one-way delay: 106.837 ms

Loss rate: 2.44%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-25 09:54:07

End at: 2018-07-25 09:54:37

Local clock offset: -7.156 ms

Remote clock offset: 5.314 ms

Below is generated by plot.py at 2018-07-25 11:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.14 Mbit/s

95th percentile per-packet one-way delay: 93.166 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 29.61 Mbit/s

95th percentile per-packet one-way delay: 90.607 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 28.66 Mbit/s

95th percentile per-packet one-way delay: 95.765 ms

Loss rate: 0.67%

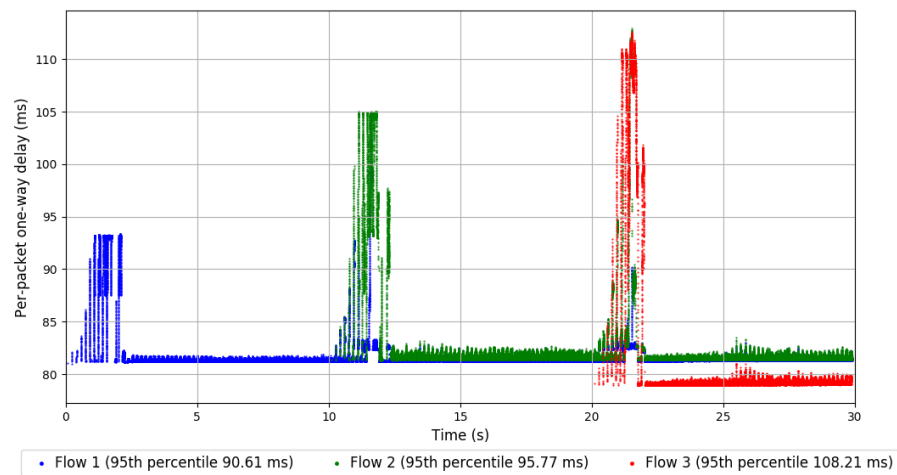
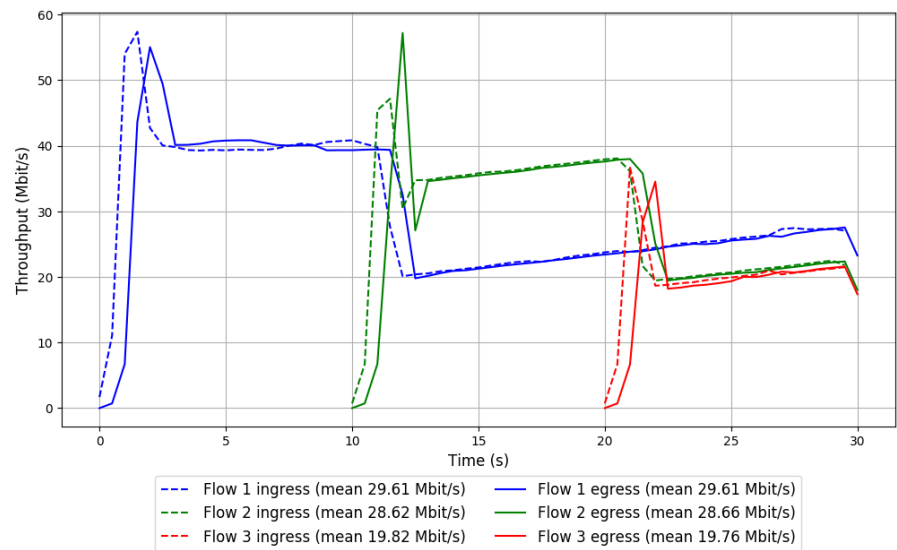
-- Flow 3:

Average throughput: 19.76 Mbit/s

95th percentile per-packet one-way delay: 108.211 ms

Loss rate: 1.95%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-25 10:15:25

End at: 2018-07-25 10:15:55

Local clock offset: -3.167 ms

Remote clock offset: 8.363 ms

Below is generated by plot.py at 2018-07-25 11:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.12 Mbit/s

95th percentile per-packet one-way delay: 90.611 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 31.00 Mbit/s

95th percentile per-packet one-way delay: 87.700 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 28.95 Mbit/s

95th percentile per-packet one-way delay: 90.051 ms

Loss rate: 0.70%

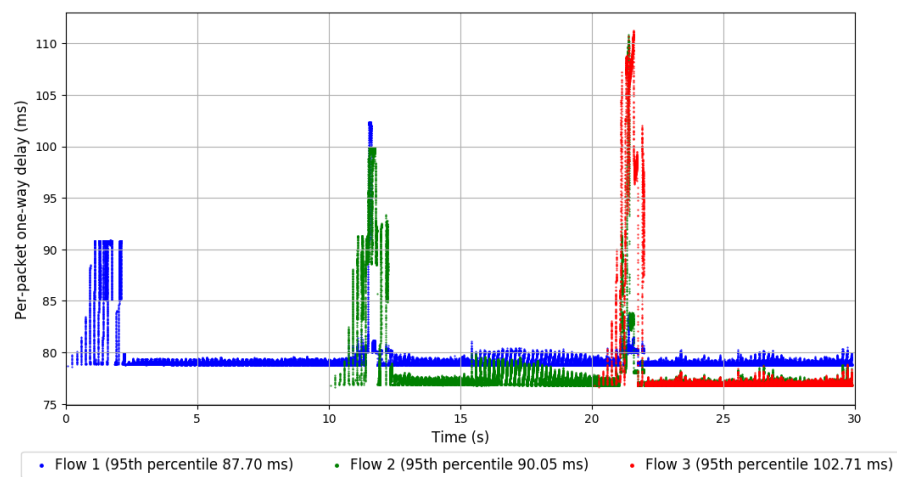
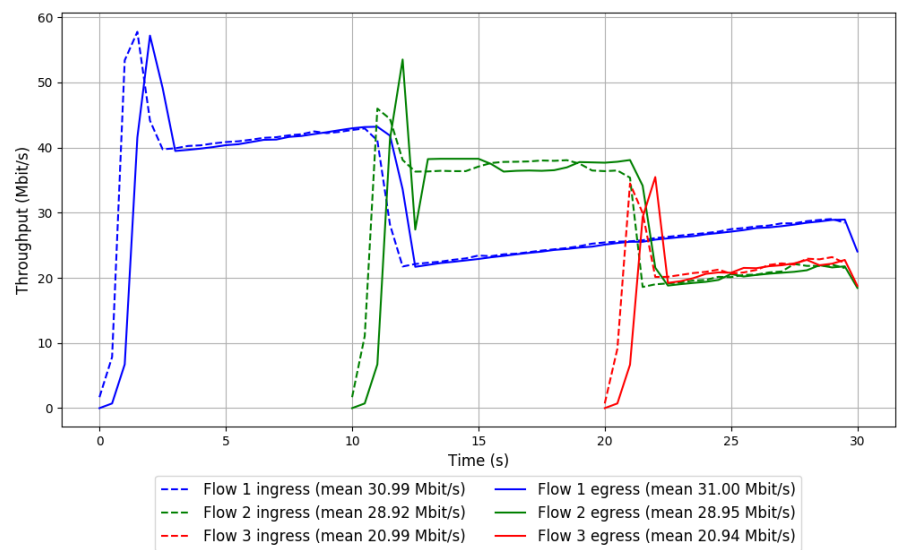
-- Flow 3:

Average throughput: 20.94 Mbit/s

95th percentile per-packet one-way delay: 102.706 ms

Loss rate: 1.85%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-25 10:36:50

End at: 2018-07-25 10:37:20

Local clock offset: -1.748 ms

Remote clock offset: 3.496 ms

Below is generated by plot.py at 2018-07-25 11:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.78 Mbit/s

95th percentile per-packet one-way delay: 95.675 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 34.31 Mbit/s

95th percentile per-packet one-way delay: 95.173 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 22.96 Mbit/s

95th percentile per-packet one-way delay: 97.999 ms

Loss rate: 0.99%

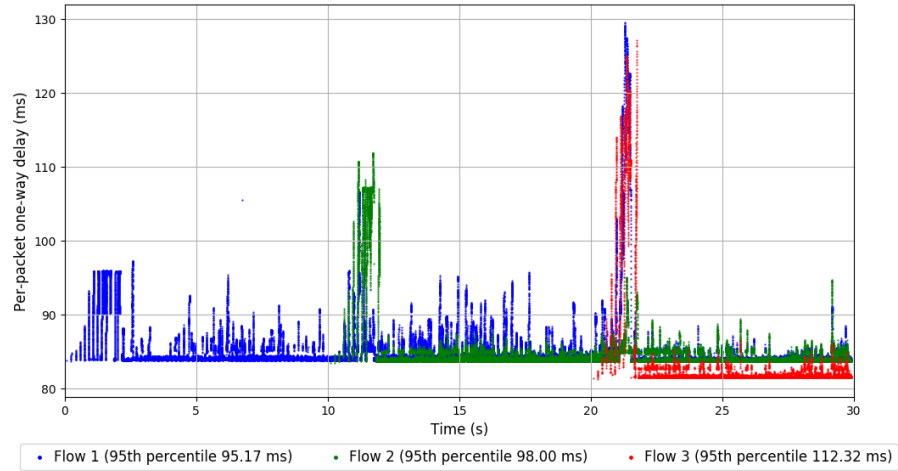
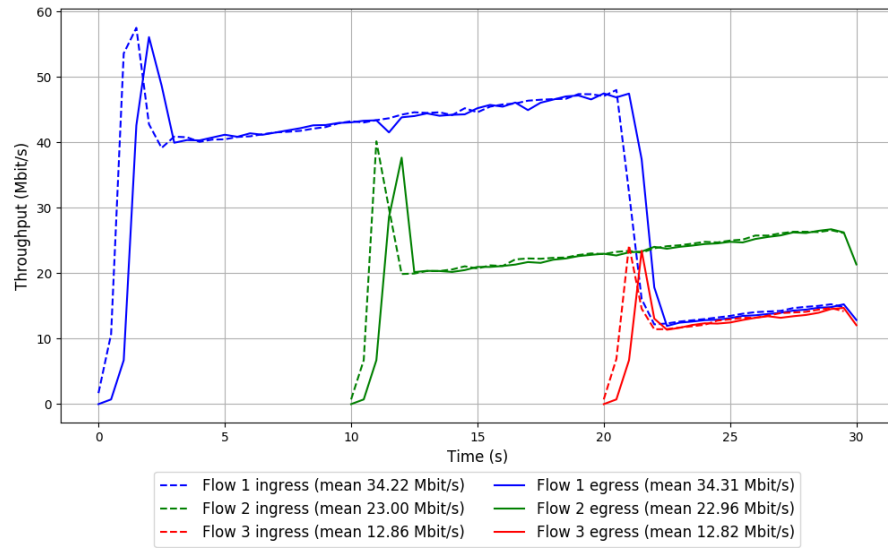
-- Flow 3:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 112.322 ms

Loss rate: 1.91%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-25 10:57:57

End at: 2018-07-25 10:58:27

Local clock offset: -1.315 ms

Remote clock offset: 7.313 ms

Below is generated by plot.py at 2018-07-25 11:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.71 Mbit/s

95th percentile per-packet one-way delay: 96.982 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 93.877 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 18.90 Mbit/s

95th percentile per-packet one-way delay: 100.701 ms

Loss rate: 0.71%

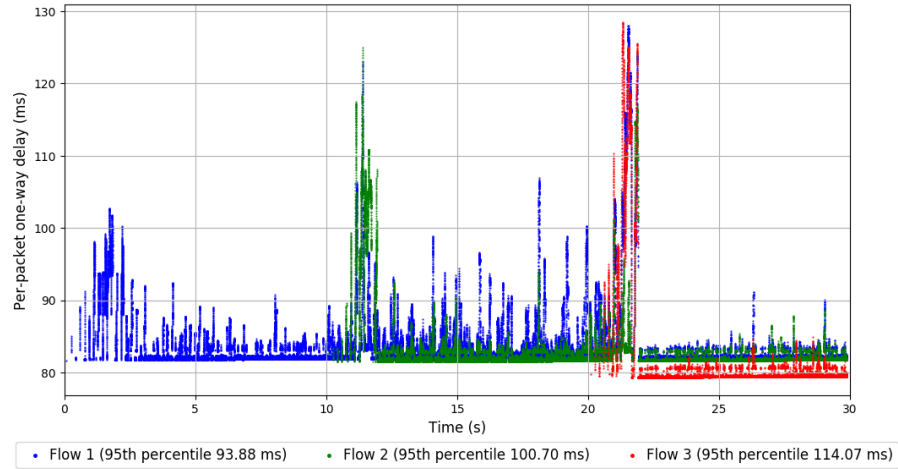
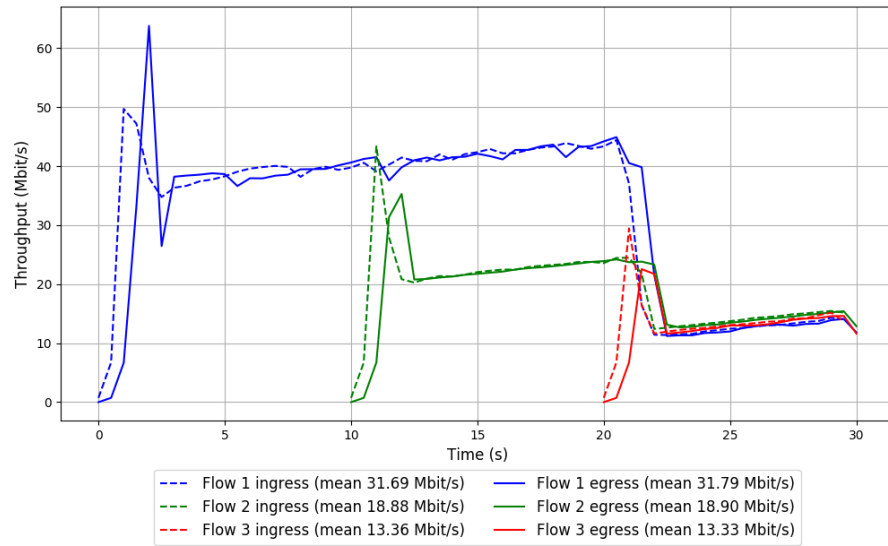
-- Flow 3:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 114.066 ms

Loss rate: 1.85%

Run 10: Report of TCP Vegas — Data Link

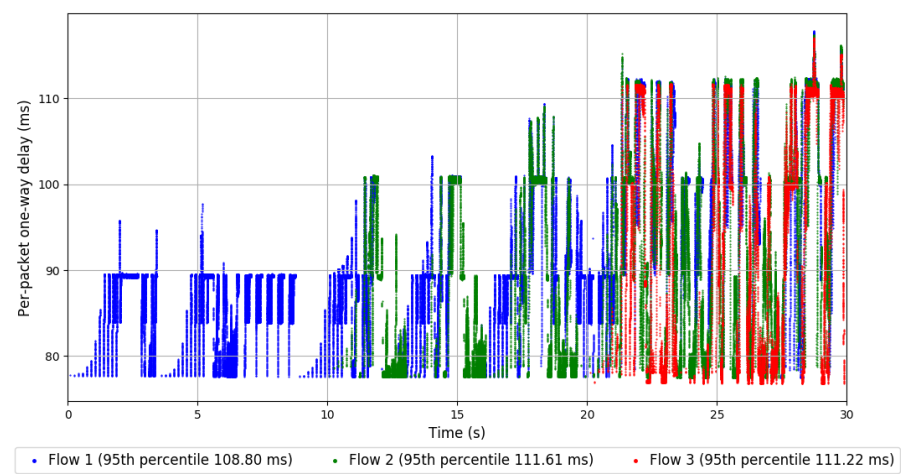
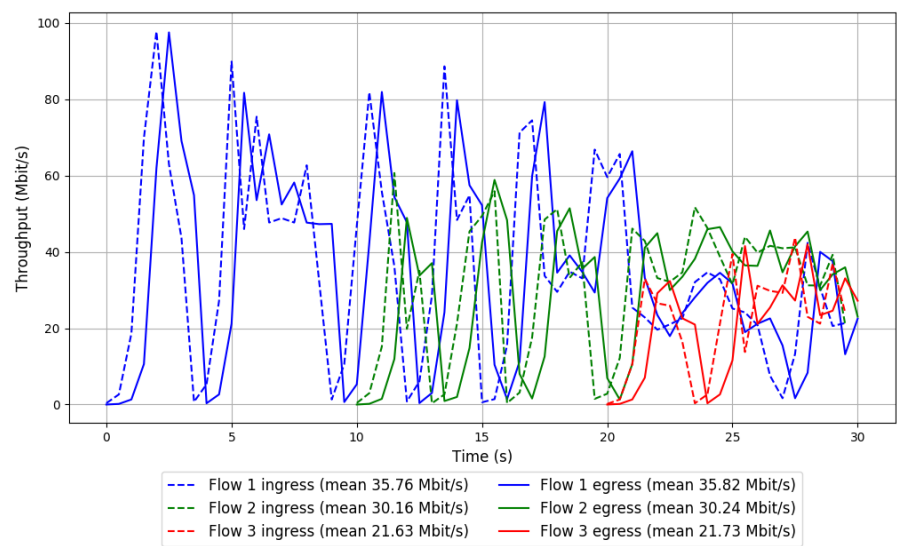


Run 1: Statistics of Verus

Start at: 2018-07-25 07:44:10
End at: 2018-07-25 07:44:40
Local clock offset: -7.049 ms
Remote clock offset: 10.194 ms

Below is generated by plot.py at 2018-07-25 11:24:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.97 Mbit/s
95th percentile per-packet one-way delay: 111.193 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 35.82 Mbit/s
95th percentile per-packet one-way delay: 108.804 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 30.24 Mbit/s
95th percentile per-packet one-way delay: 111.606 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 21.73 Mbit/s
95th percentile per-packet one-way delay: 111.217 ms
Loss rate: 1.25%

Run 1: Report of Verus — Data Link

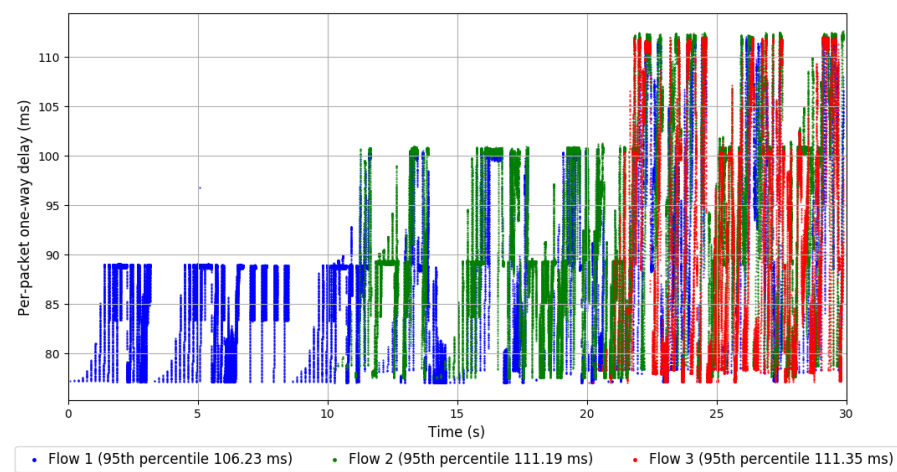
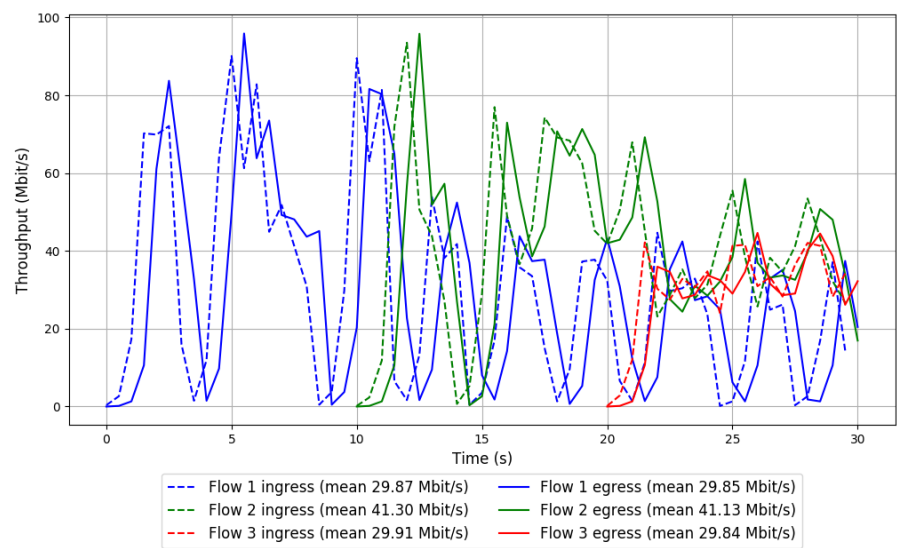


Run 2: Statistics of Verus

Start at: 2018-07-25 08:05:16
End at: 2018-07-25 08:05:46
Local clock offset: -5.244 ms
Remote clock offset: 5.423 ms

Below is generated by plot.py at 2018-07-25 11:25:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.97 Mbit/s
95th percentile per-packet one-way delay: 110.553 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 29.85 Mbit/s
95th percentile per-packet one-way delay: 106.230 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 41.13 Mbit/s
95th percentile per-packet one-way delay: 111.195 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 29.84 Mbit/s
95th percentile per-packet one-way delay: 111.351 ms
Loss rate: 1.71%

Run 2: Report of Verus — Data Link

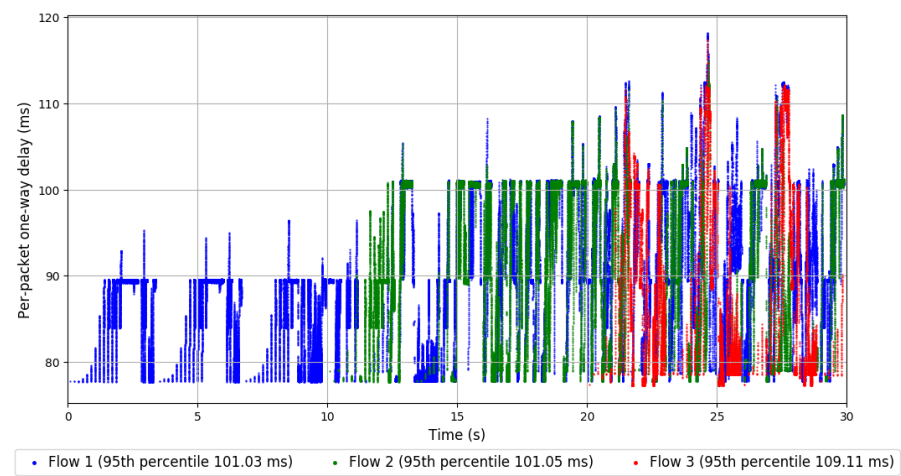
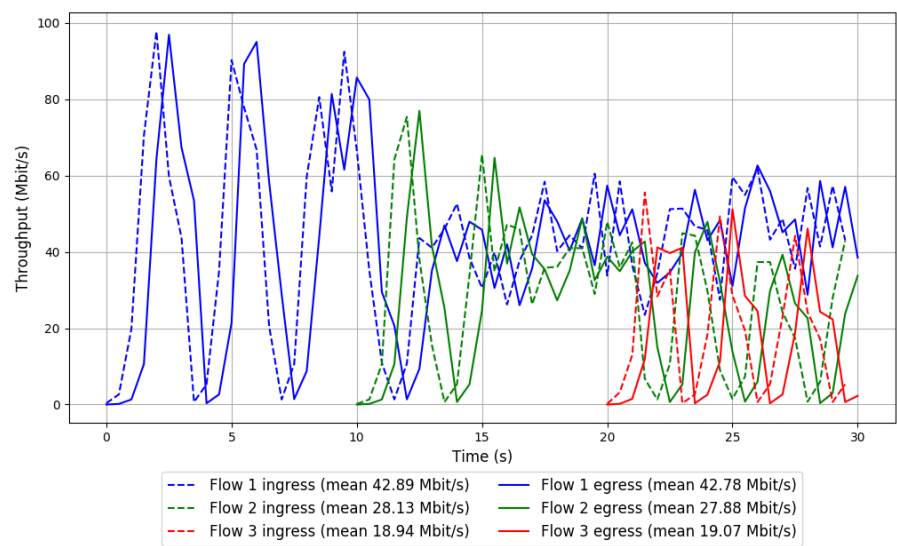


Run 3: Statistics of Verus

Start at: 2018-07-25 08:26:26
End at: 2018-07-25 08:26:56
Local clock offset: -1.138 ms
Remote clock offset: 15.606 ms

Below is generated by plot.py at 2018-07-25 11:25:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.53 Mbit/s
95th percentile per-packet one-way delay: 101.319 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 42.78 Mbit/s
95th percentile per-packet one-way delay: 101.034 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 27.88 Mbit/s
95th percentile per-packet one-way delay: 101.047 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 19.07 Mbit/s
95th percentile per-packet one-way delay: 109.106 ms
Loss rate: 0.95%

Run 3: Report of Verus — Data Link

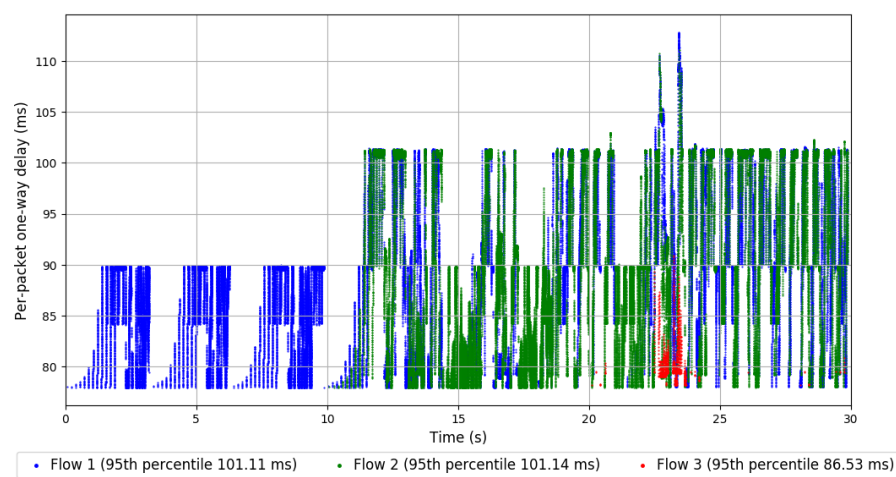
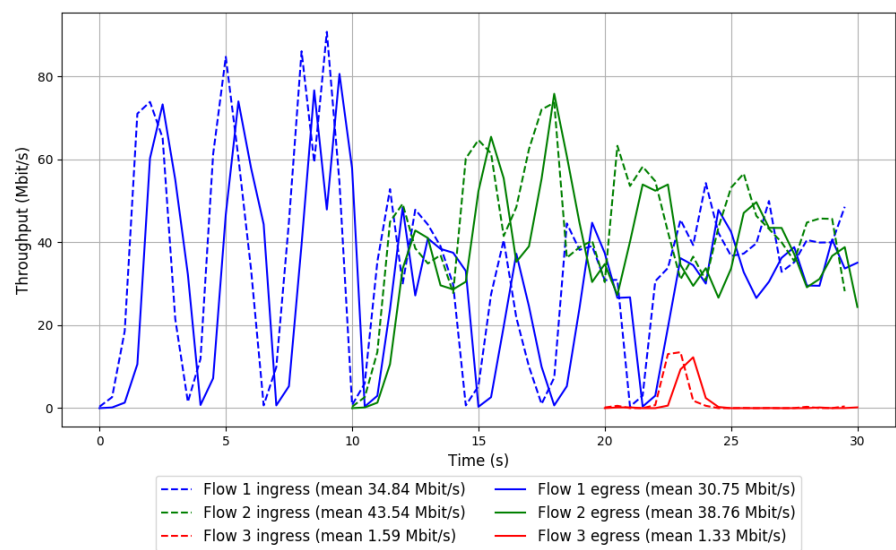


Run 4: Statistics of Verus

Start at: 2018-07-25 08:47:41
End at: 2018-07-25 08:48:11
Local clock offset: -6.427 ms
Remote clock offset: 16.499 ms

Below is generated by plot.py at 2018-07-25 11:25:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.93 Mbit/s
95th percentile per-packet one-way delay: 101.125 ms
Loss rate: 11.88%
-- Flow 1:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 101.110 ms
Loss rate: 12.16%
-- Flow 2:
Average throughput: 38.76 Mbit/s
95th percentile per-packet one-way delay: 101.144 ms
Loss rate: 11.43%
-- Flow 3:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 86.525 ms
Loss rate: 17.70%

Run 4: Report of Verus — Data Link

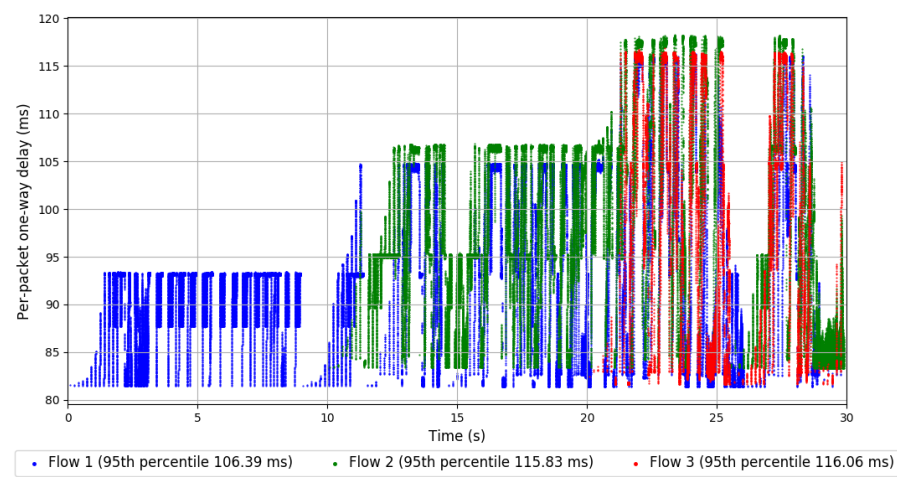
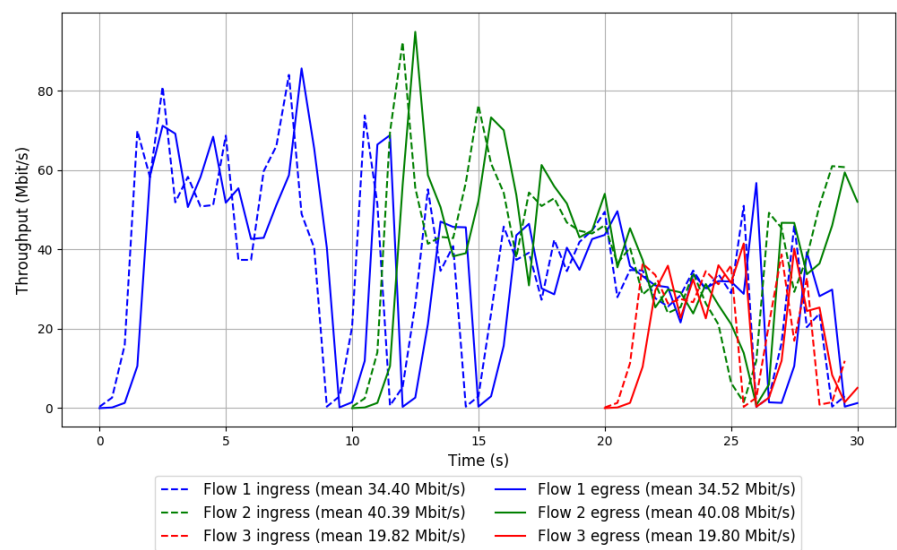


Run 5: Statistics of Verus

Start at: 2018-07-25 09:09:05
End at: 2018-07-25 09:09:35
Local clock offset: -4.508 ms
Remote clock offset: 12.862 ms

Below is generated by plot.py at 2018-07-25 11:25:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.46 Mbit/s
95th percentile per-packet one-way delay: 115.166 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 34.52 Mbit/s
95th percentile per-packet one-way delay: 106.393 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 40.08 Mbit/s
95th percentile per-packet one-way delay: 115.825 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 19.80 Mbit/s
95th percentile per-packet one-way delay: 116.060 ms
Loss rate: 2.00%

Run 5: Report of Verus — Data Link

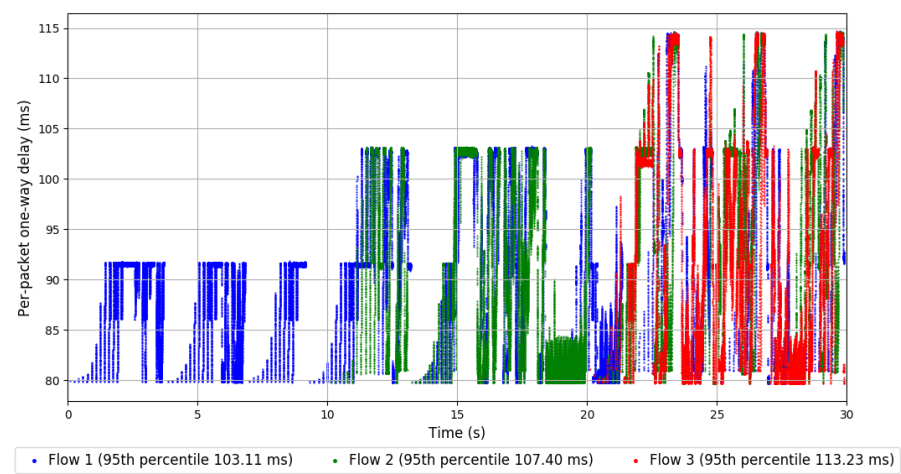
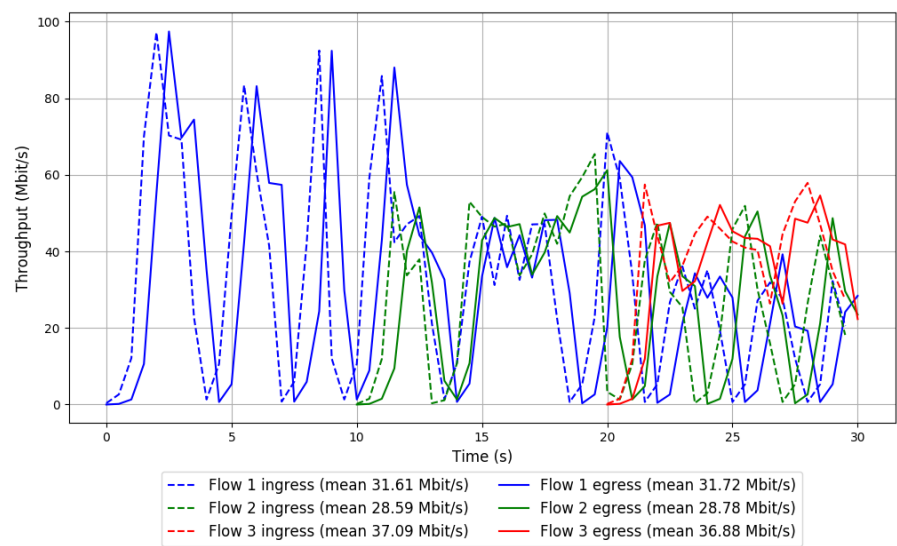


Run 6: Statistics of Verus

Start at: 2018-07-25 09:30:19
End at: 2018-07-25 09:30:49
Local clock offset: -1.979 ms
Remote clock offset: 7.874 ms

Below is generated by plot.py at 2018-07-25 11:25:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.90 Mbit/s
95th percentile per-packet one-way delay: 108.090 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 31.72 Mbit/s
95th percentile per-packet one-way delay: 103.106 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 28.78 Mbit/s
95th percentile per-packet one-way delay: 107.401 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 36.88 Mbit/s
95th percentile per-packet one-way delay: 113.230 ms
Loss rate: 2.21%

Run 6: Report of Verus — Data Link

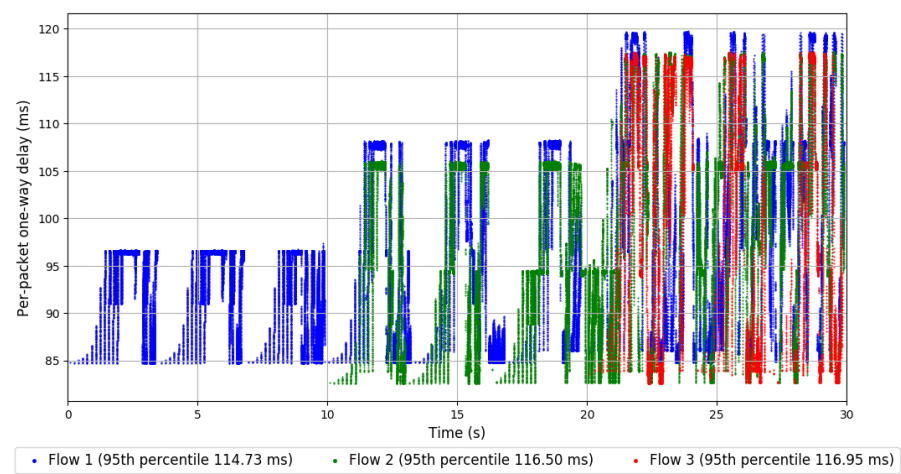
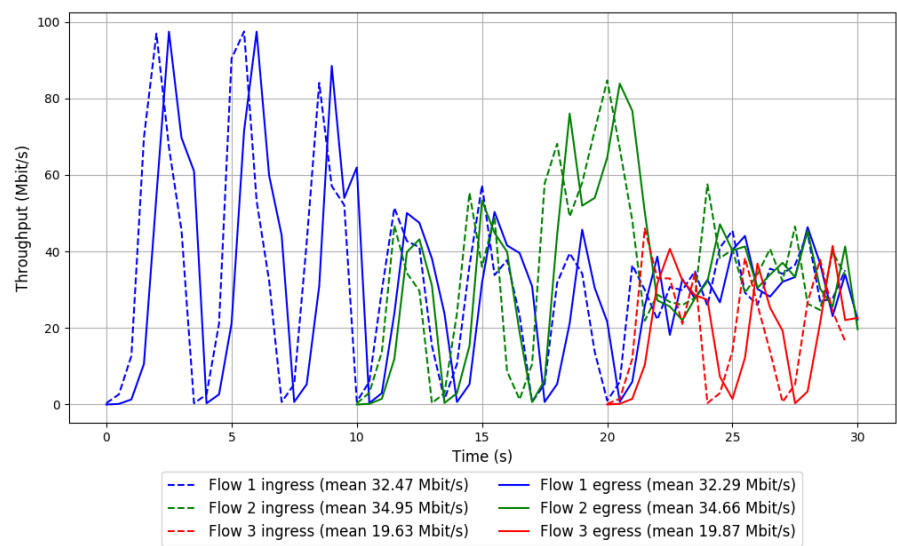


Run 7: Statistics of Verus

Start at: 2018-07-25 09:51:37
End at: 2018-07-25 09:52:07
Local clock offset: -6.967 ms
Remote clock offset: 1.354 ms

Below is generated by plot.py at 2018-07-25 11:25:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.80 Mbit/s
95th percentile per-packet one-way delay: 116.576 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 114.728 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 34.66 Mbit/s
95th percentile per-packet one-way delay: 116.502 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 19.87 Mbit/s
95th percentile per-packet one-way delay: 116.947 ms
Loss rate: 0.42%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-25 10:12:56

End at: 2018-07-25 10:13:26

Local clock offset: -3.559 ms

Remote clock offset: 8.408 ms

Below is generated by plot.py at 2018-07-25 11:25:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.64 Mbit/s

95th percentile per-packet one-way delay: 109.761 ms

Loss rate: 9.55%

-- Flow 1:

Average throughput: 30.39 Mbit/s

95th percentile per-packet one-way delay: 101.532 ms

Loss rate: 7.81%

-- Flow 2:

Average throughput: 16.08 Mbit/s

95th percentile per-packet one-way delay: 113.059 ms

Loss rate: 12.39%

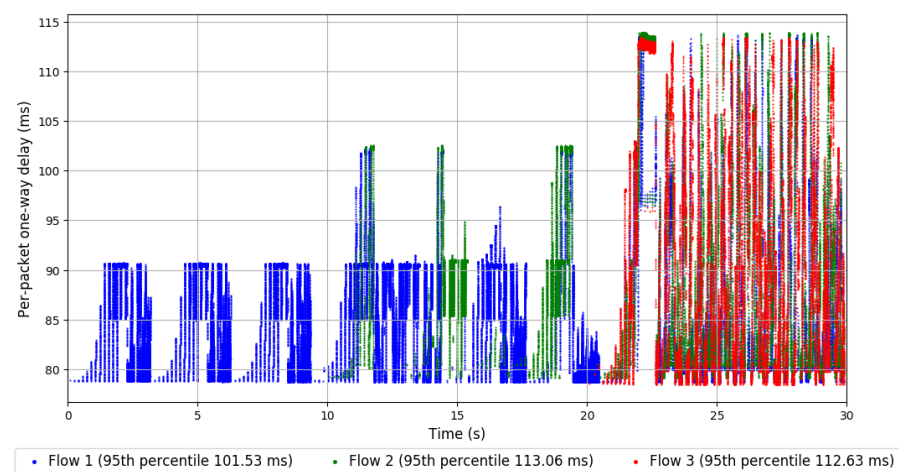
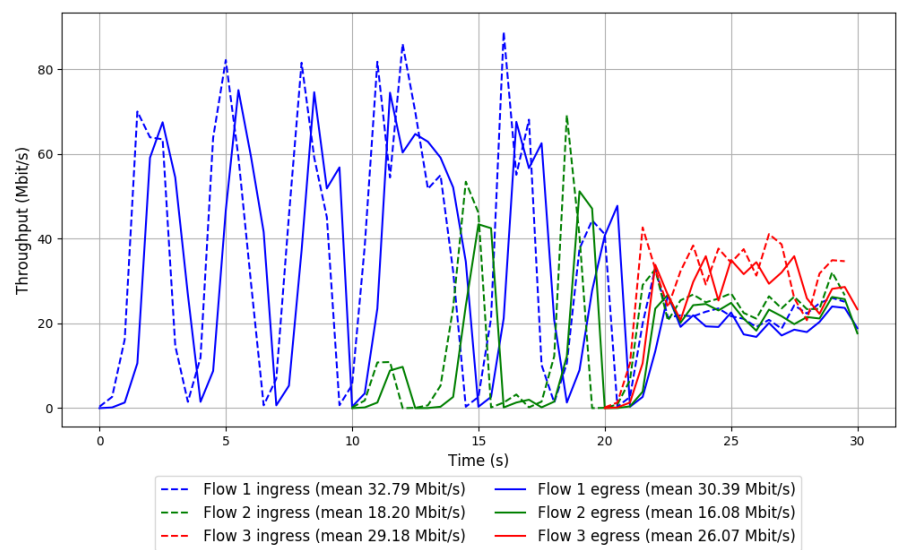
-- Flow 3:

Average throughput: 26.07 Mbit/s

95th percentile per-packet one-way delay: 112.626 ms

Loss rate: 11.88%

Run 8: Report of Verus — Data Link

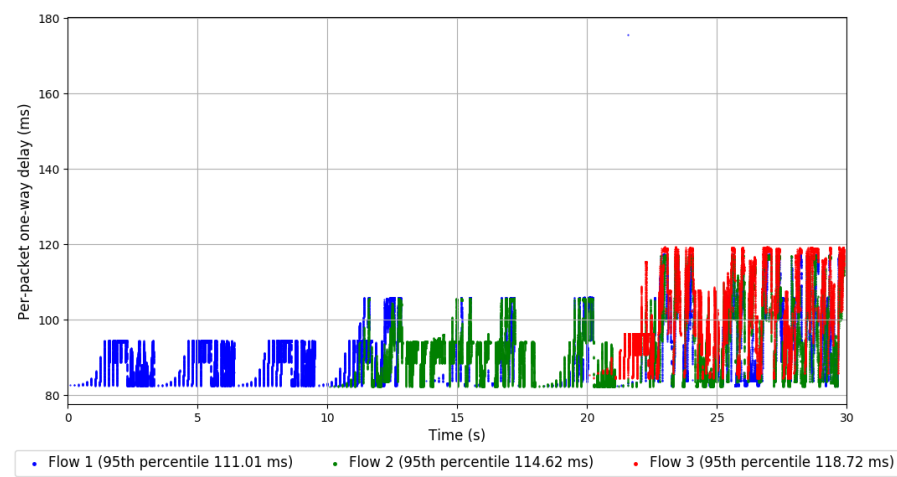
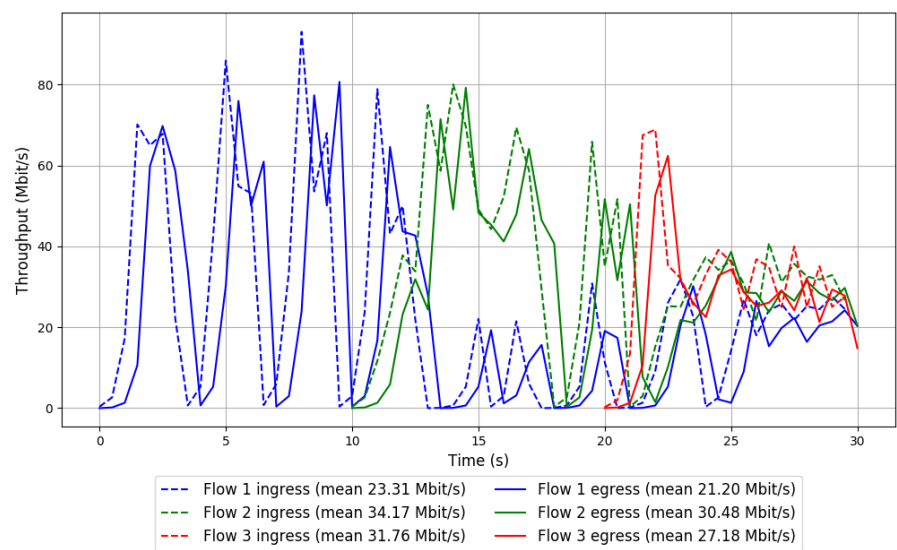


Run 9: Statistics of Verus

Start at: 2018-07-25 10:34:21
End at: 2018-07-25 10:34:51
Local clock offset: -1.745 ms
Remote clock offset: 2.329 ms

Below is generated by plot.py at 2018-07-25 11:25:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.38 Mbit/s
95th percentile per-packet one-way delay: 116.369 ms
Loss rate: 11.38%
-- Flow 1:
Average throughput: 21.20 Mbit/s
95th percentile per-packet one-way delay: 111.006 ms
Loss rate: 9.57%
-- Flow 2:
Average throughput: 30.48 Mbit/s
95th percentile per-packet one-way delay: 114.623 ms
Loss rate: 11.57%
-- Flow 3:
Average throughput: 27.18 Mbit/s
95th percentile per-packet one-way delay: 118.725 ms
Loss rate: 14.98%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-25 10:55:26

End at: 2018-07-25 10:55:56

Local clock offset: -1.324 ms

Remote clock offset: 3.353 ms

Below is generated by plot.py at 2018-07-25 11:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.53 Mbit/s

95th percentile per-packet one-way delay: 115.979 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 42.77 Mbit/s

95th percentile per-packet one-way delay: 111.914 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 25.27 Mbit/s

95th percentile per-packet one-way delay: 118.699 ms

Loss rate: 1.83%

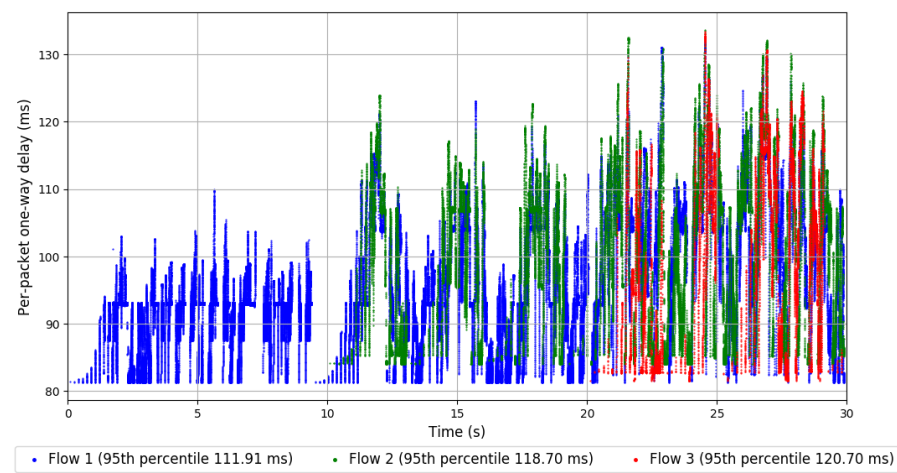
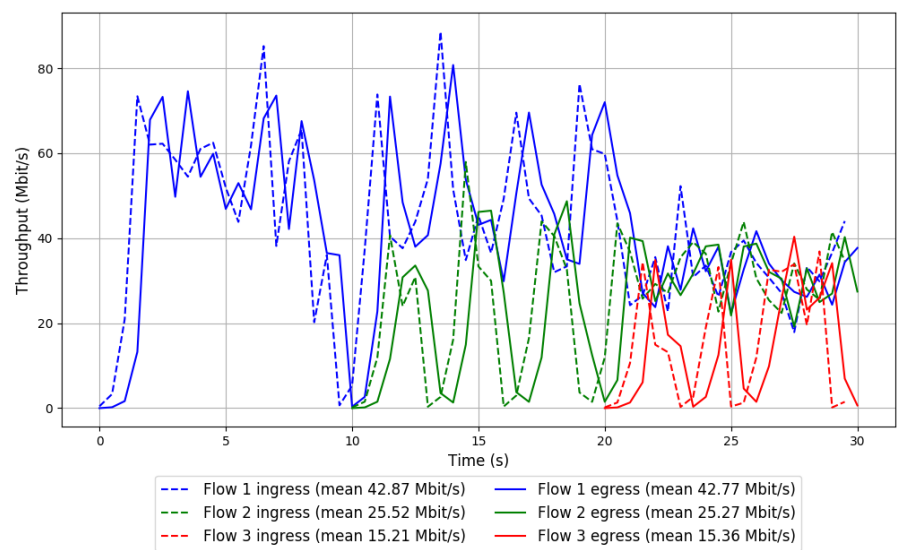
-- Flow 3:

Average throughput: 15.36 Mbit/s

95th percentile per-packet one-way delay: 120.696 ms

Loss rate: 0.73%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-25 07:42:54

End at: 2018-07-25 07:43:24

Local clock offset: -7.0 ms

Remote clock offset: 5.832 ms

Below is generated by plot.py at 2018-07-25 11:26:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.93 Mbit/s

95th percentile per-packet one-way delay: 112.336 ms

Loss rate: 3.98%

-- Flow 1:

Average throughput: 51.03 Mbit/s

95th percentile per-packet one-way delay: 109.579 ms

Loss rate: 5.00%

-- Flow 2:

Average throughput: 31.96 Mbit/s

95th percentile per-packet one-way delay: 114.966 ms

Loss rate: 1.93%

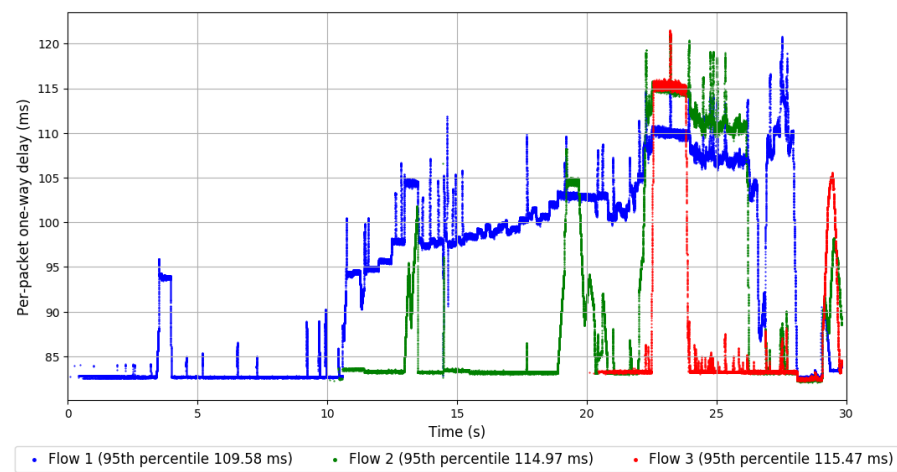
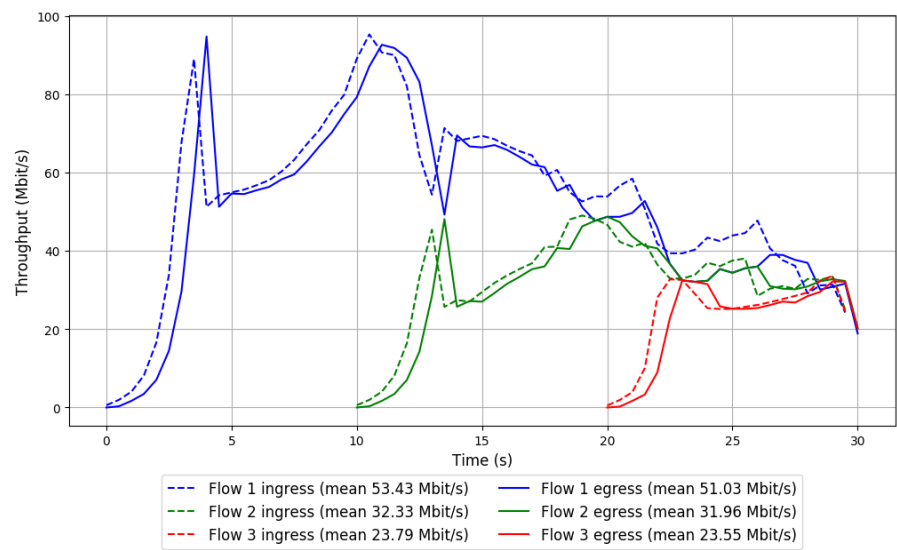
-- Flow 3:

Average throughput: 23.55 Mbit/s

95th percentile per-packet one-way delay: 115.468 ms

Loss rate: 2.65%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-25 08:03:59

End at: 2018-07-25 08:04:29

Local clock offset: -5.763 ms

Remote clock offset: 0.779 ms

Below is generated by plot.py at 2018-07-25 11:26:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.65 Mbit/s

95th percentile per-packet one-way delay: 111.001 ms

Loss rate: 3.18%

-- Flow 1:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 105.306 ms

Loss rate: 3.59%

-- Flow 2:

Average throughput: 33.12 Mbit/s

95th percentile per-packet one-way delay: 113.421 ms

Loss rate: 2.35%

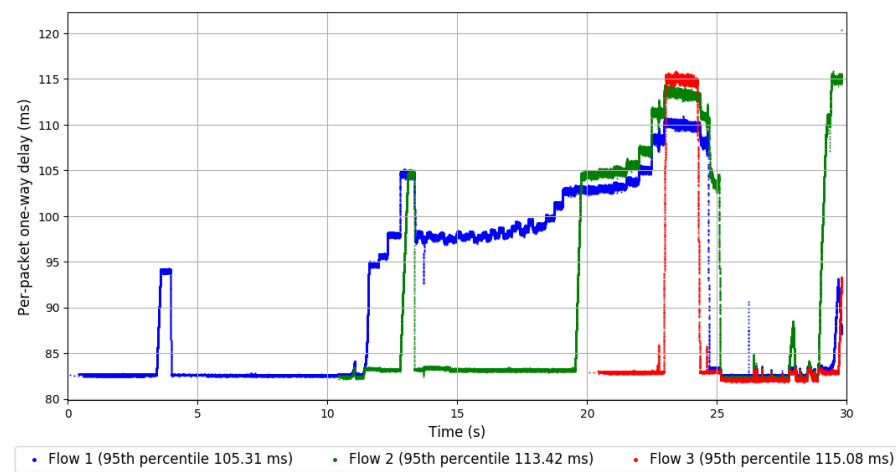
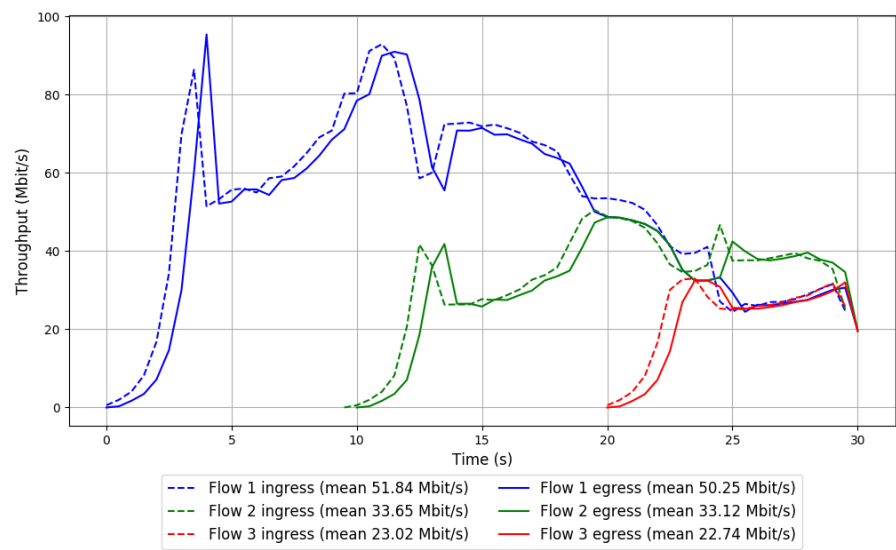
-- Flow 3:

Average throughput: 22.74 Mbit/s

95th percentile per-packet one-way delay: 115.081 ms

Loss rate: 2.84%

Run 2: Report of PCC-Vivace — Data Link

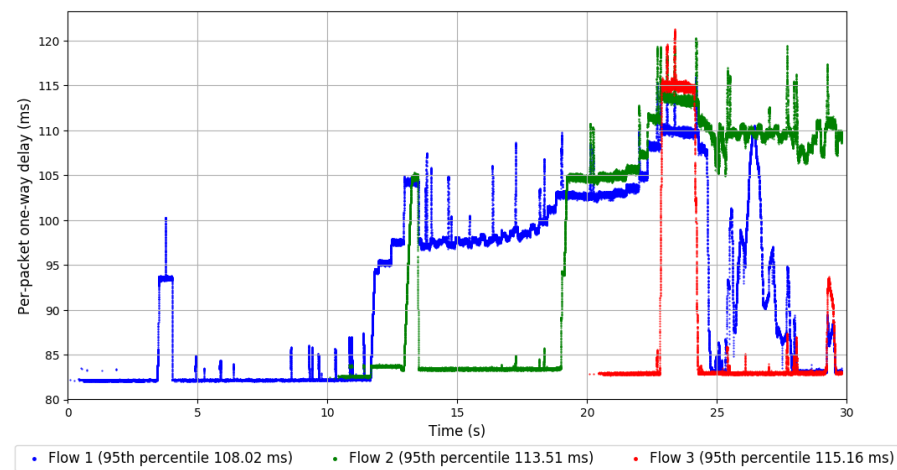
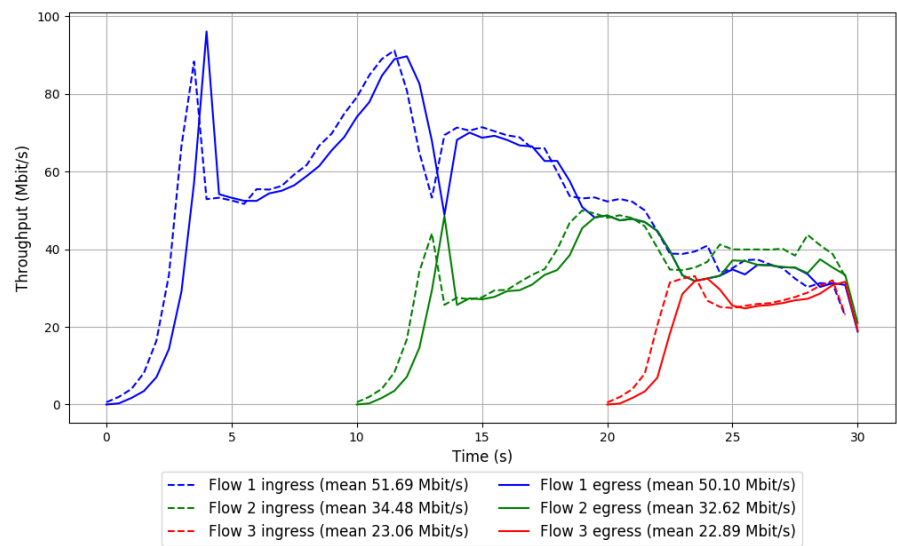


Run 3: Statistics of PCC-Vivace

Start at: 2018-07-25 08:25:09
End at: 2018-07-25 08:25:39
Local clock offset: -1.192 ms
Remote clock offset: 10.437 ms

Below is generated by plot.py at 2018-07-25 11:26:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.22 Mbit/s
95th percentile per-packet one-way delay: 111.277 ms
Loss rate: 4.21%
-- Flow 1:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 108.018 ms
Loss rate: 3.59%
-- Flow 2:
Average throughput: 32.62 Mbit/s
95th percentile per-packet one-way delay: 113.506 ms
Loss rate: 6.20%
-- Flow 3:
Average throughput: 22.89 Mbit/s
95th percentile per-packet one-way delay: 115.164 ms
Loss rate: 2.36%

Run 3: Report of PCC-Vivace — Data Link

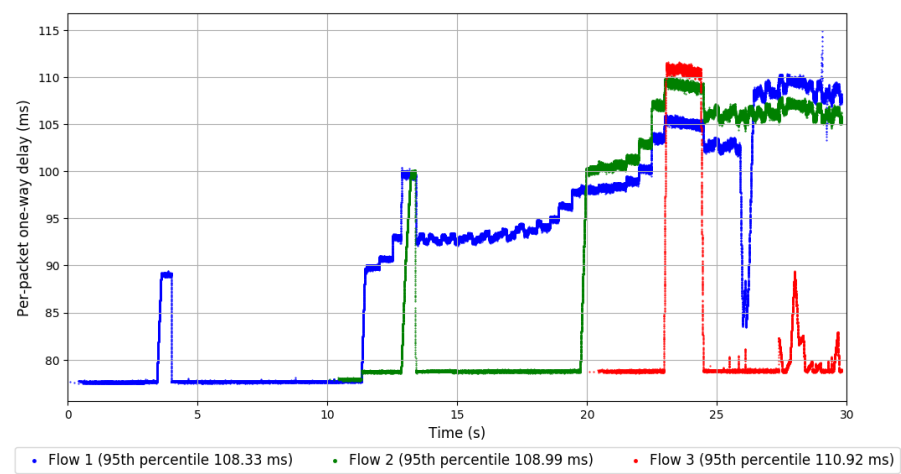
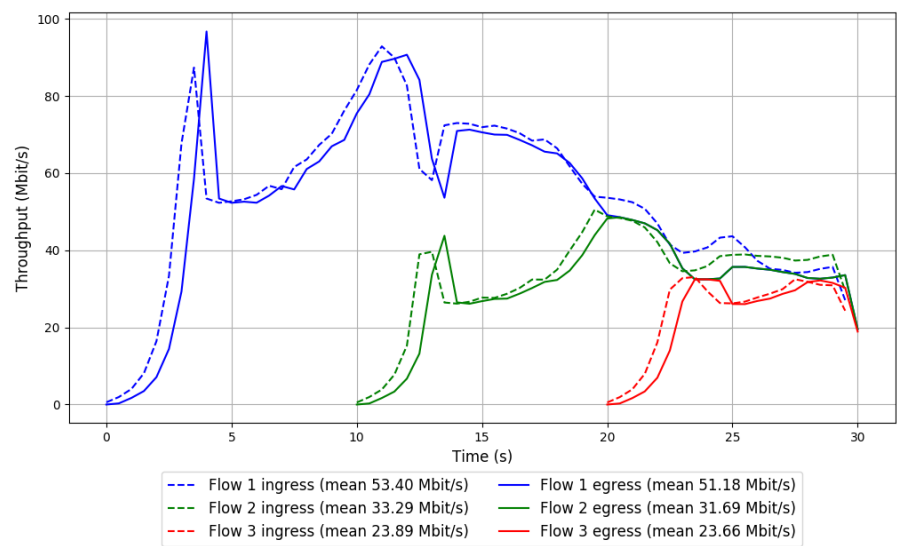


Run 4: Statistics of PCC-Vivace

Start at: 2018-07-25 08:46:25
End at: 2018-07-25 08:46:55
Local clock offset: -6.25 ms
Remote clock offset: 16.351 ms

Below is generated by plot.py at 2018-07-25 11:26:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.94 Mbit/s
95th percentile per-packet one-way delay: 108.981 ms
Loss rate: 4.72%
-- Flow 1:
Average throughput: 51.18 Mbit/s
95th percentile per-packet one-way delay: 108.330 ms
Loss rate: 4.68%
-- Flow 2:
Average throughput: 31.69 Mbit/s
95th percentile per-packet one-way delay: 108.987 ms
Loss rate: 5.58%
-- Flow 3:
Average throughput: 23.66 Mbit/s
95th percentile per-packet one-way delay: 110.925 ms
Loss rate: 2.59%

Run 4: Report of PCC-Vivace — Data Link

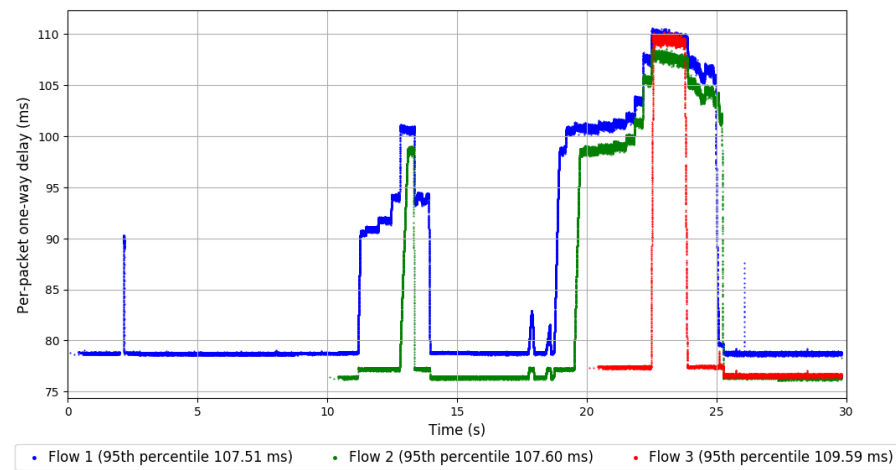
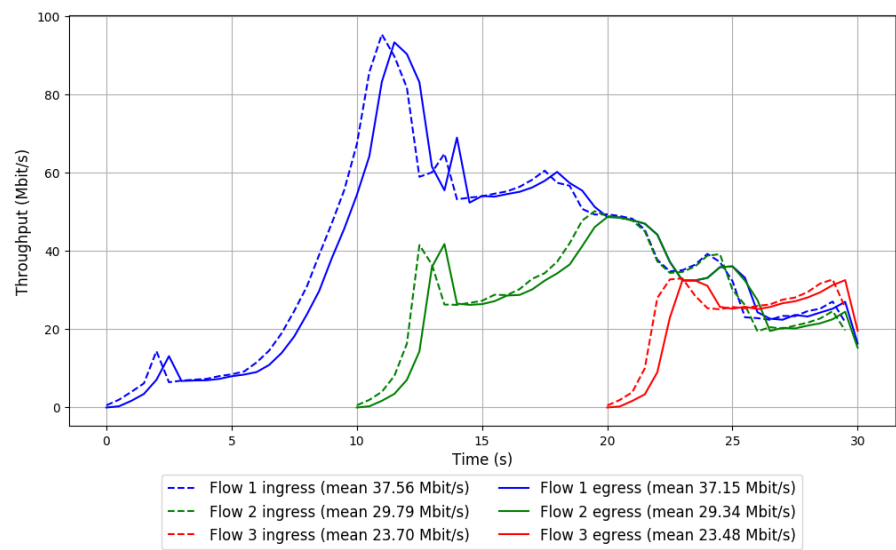


Run 5: Statistics of PCC-Vivace

Start at: 2018-07-25 09:07:49
End at: 2018-07-25 09:08:19
Local clock offset: -4.851 ms
Remote clock offset: 17.648 ms

Below is generated by plot.py at 2018-07-25 11:26:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.28 Mbit/s
95th percentile per-packet one-way delay: 107.938 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 37.15 Mbit/s
95th percentile per-packet one-way delay: 107.509 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 29.34 Mbit/s
95th percentile per-packet one-way delay: 107.603 ms
Loss rate: 2.30%
-- Flow 3:
Average throughput: 23.48 Mbit/s
95th percentile per-packet one-way delay: 109.595 ms
Loss rate: 2.58%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-25 09:29:02

End at: 2018-07-25 09:29:32

Local clock offset: -1.994 ms

Remote clock offset: 4.432 ms

Below is generated by plot.py at 2018-07-25 11:26:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.06 Mbit/s

95th percentile per-packet one-way delay: 110.909 ms

Loss rate: 3.40%

-- Flow 1:

Average throughput: 51.78 Mbit/s

95th percentile per-packet one-way delay: 108.901 ms

Loss rate: 3.82%

-- Flow 2:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 112.629 ms

Loss rate: 2.63%

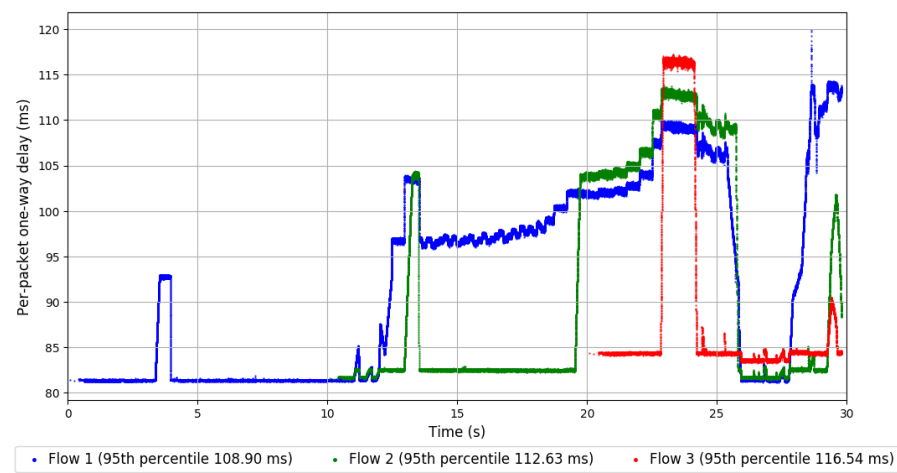
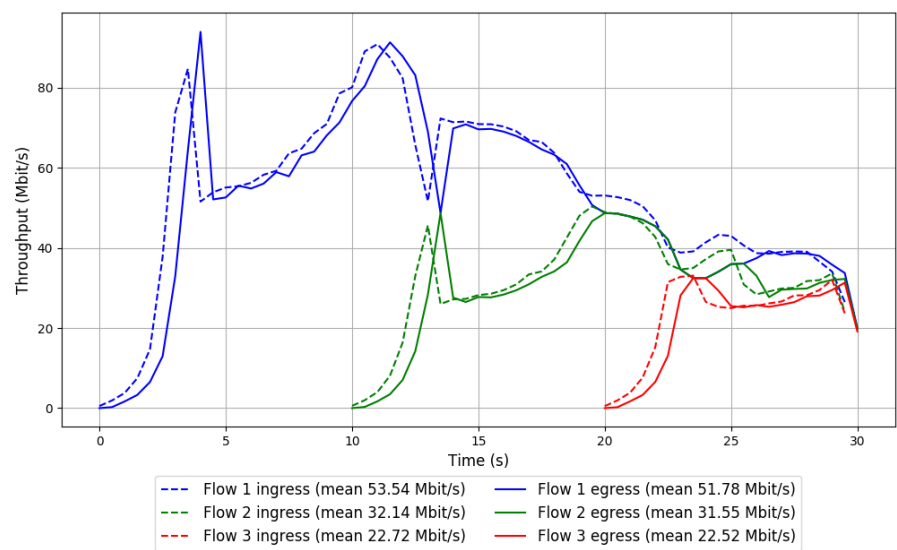
-- Flow 3:

Average throughput: 22.52 Mbit/s

95th percentile per-packet one-way delay: 116.538 ms

Loss rate: 2.53%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-25 09:50:21

End at: 2018-07-25 09:50:51

Local clock offset: -6.904 ms

Remote clock offset: 2.063 ms

Below is generated by plot.py at 2018-07-25 11:26:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.81 Mbit/s

95th percentile per-packet one-way delay: 112.454 ms

Loss rate: 4.44%

-- Flow 1:

Average throughput: 51.48 Mbit/s

95th percentile per-packet one-way delay: 108.740 ms

Loss rate: 4.40%

-- Flow 2:

Average throughput: 32.41 Mbit/s

95th percentile per-packet one-way delay: 112.959 ms

Loss rate: 5.20%

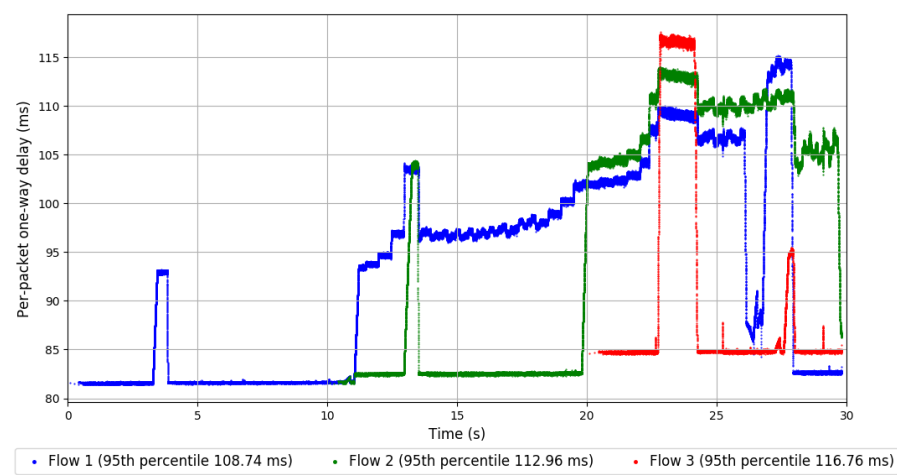
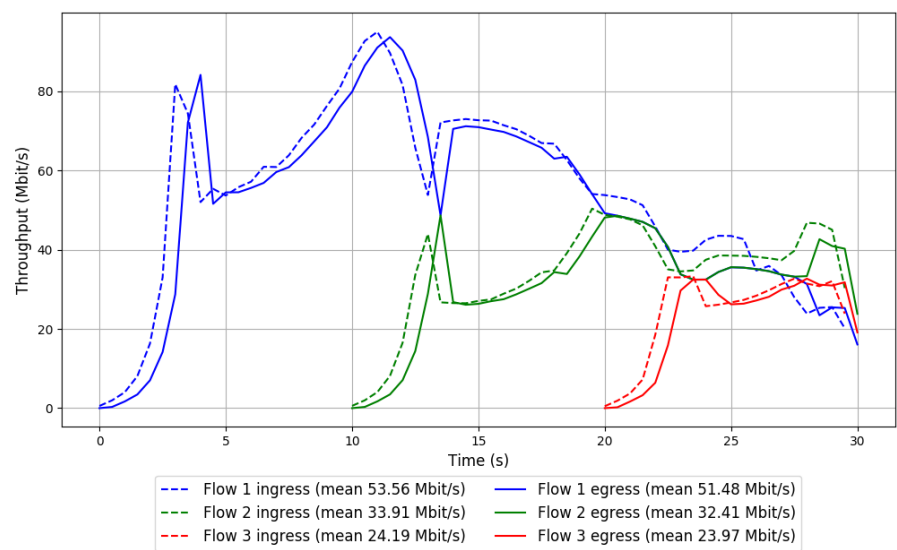
-- Flow 3:

Average throughput: 23.97 Mbit/s

95th percentile per-packet one-way delay: 116.762 ms

Loss rate: 2.58%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-25 10:11:40

End at: 2018-07-25 10:12:10

Local clock offset: -3.863 ms

Remote clock offset: 3.526 ms

Below is generated by plot.py at 2018-07-25 11:26:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.47 Mbit/s

95th percentile per-packet one-way delay: 83.229 ms

Loss rate: 2.95%

-- Flow 1:

Average throughput: 54.66 Mbit/s

95th percentile per-packet one-way delay: 81.512 ms

Loss rate: 2.74%

-- Flow 2:

Average throughput: 19.00 Mbit/s

95th percentile per-packet one-way delay: 83.250 ms

Loss rate: 3.61%

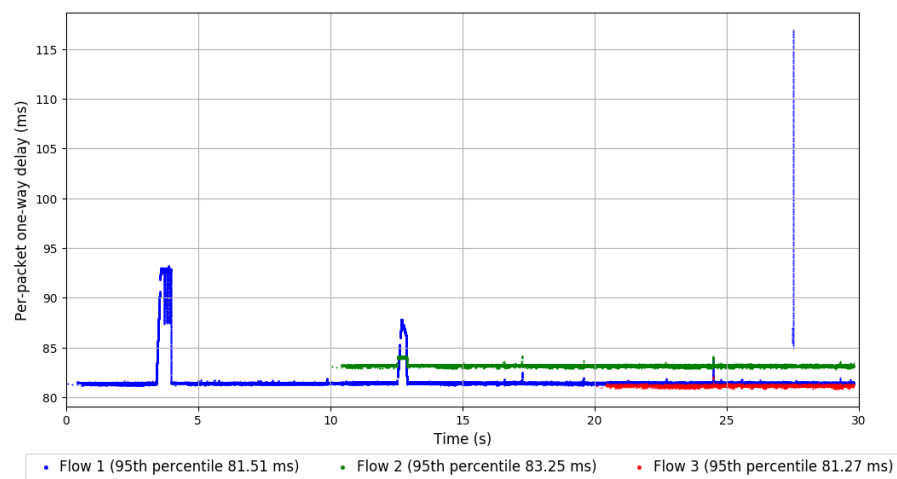
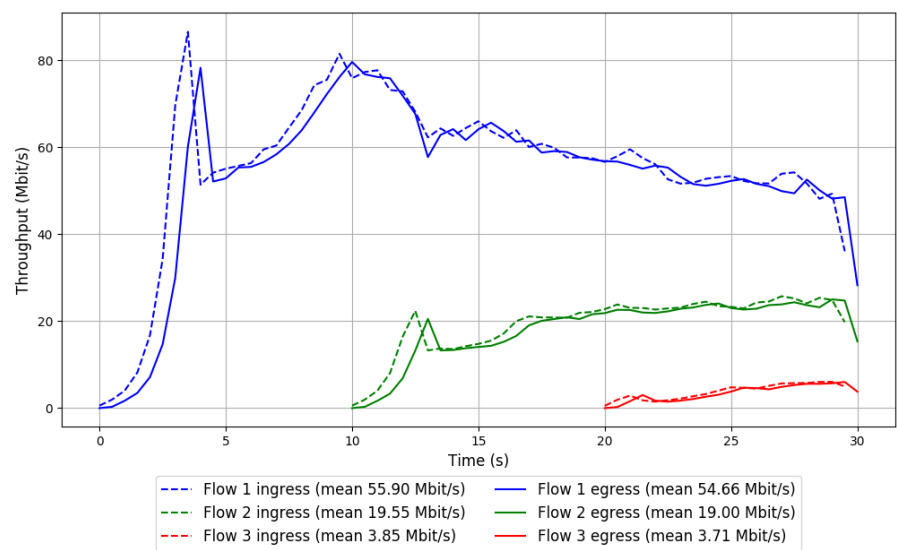
-- Flow 3:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 81.265 ms

Loss rate: 5.31%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-25 10:33:04

End at: 2018-07-25 10:33:34

Local clock offset: -1.762 ms

Remote clock offset: 3.467 ms

Below is generated by plot.py at 2018-07-25 11:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.10 Mbit/s

95th percentile per-packet one-way delay: 84.182 ms

Loss rate: 2.58%

-- Flow 1:

Average throughput: 54.69 Mbit/s

95th percentile per-packet one-way delay: 84.191 ms

Loss rate: 2.37%

-- Flow 2:

Average throughput: 15.86 Mbit/s

95th percentile per-packet one-way delay: 83.722 ms

Loss rate: 3.16%

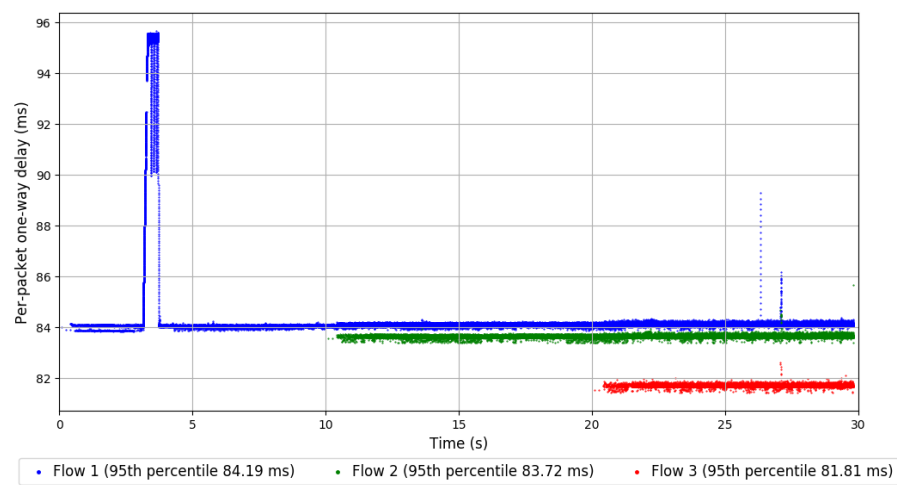
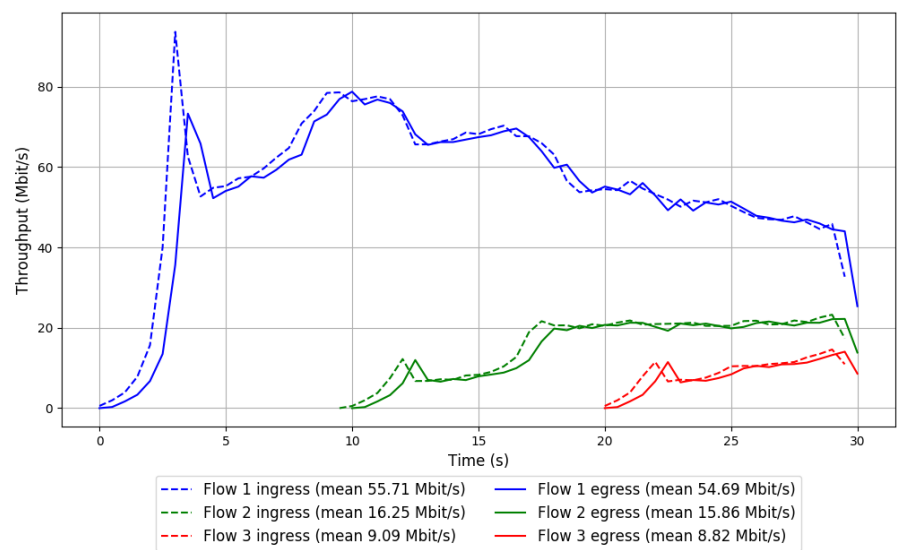
-- Flow 3:

Average throughput: 8.82 Mbit/s

95th percentile per-packet one-way delay: 81.810 ms

Loss rate: 4.46%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-25 10:54:11

End at: 2018-07-25 10:54:41

Local clock offset: -1.429 ms

Remote clock offset: 2.235 ms

Below is generated by plot.py at 2018-07-25 11:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.84 Mbit/s

95th percentile per-packet one-way delay: 102.393 ms

Loss rate: 3.43%

-- Flow 1:

Average throughput: 54.18 Mbit/s

95th percentile per-packet one-way delay: 101.143 ms

Loss rate: 3.05%

-- Flow 2:

Average throughput: 10.58 Mbit/s

95th percentile per-packet one-way delay: 114.380 ms

Loss rate: 4.94%

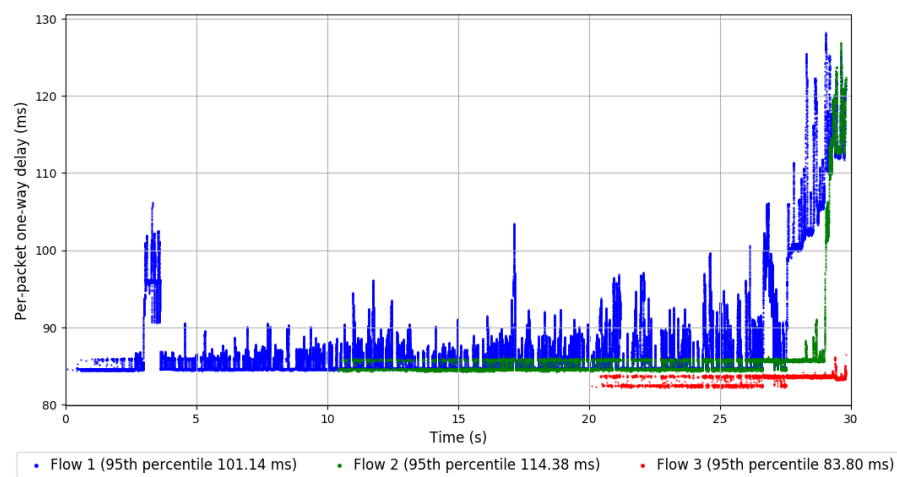
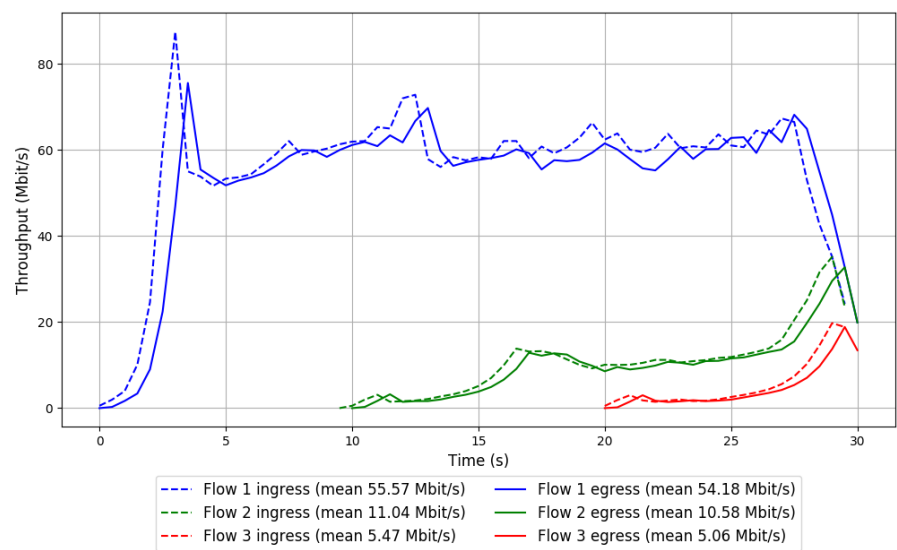
-- Flow 3:

Average throughput: 5.06 Mbit/s

95th percentile per-packet one-way delay: 83.796 ms

Loss rate: 9.10%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-25 07:35:27

End at: 2018-07-25 07:35:57

Local clock offset: -7.089 ms

Remote clock offset: 15.84 ms

Below is generated by plot.py at 2018-07-25 11:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 78.055 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 77.593 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 78.233 ms

Loss rate: 0.71%

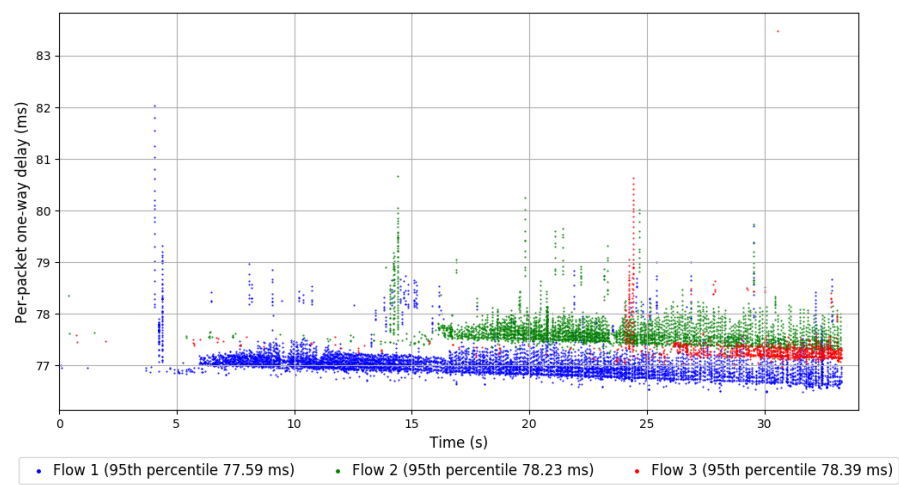
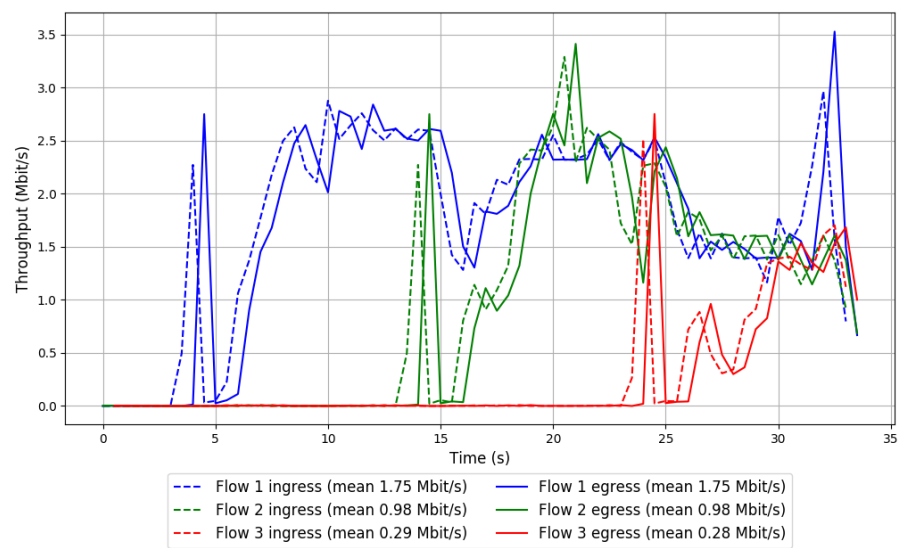
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 78.395 ms

Loss rate: 2.19%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-25 07:56:33

End at: 2018-07-25 07:57:03

Local clock offset: -7.112 ms

Remote clock offset: 6.915 ms

Below is generated by plot.py at 2018-07-25 11:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 78.194 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 77.899 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 78.456 ms

Loss rate: 0.74%

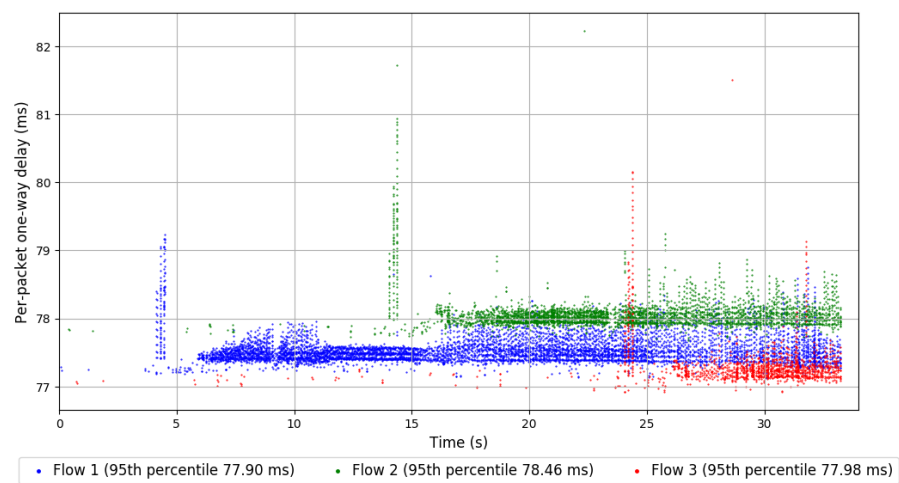
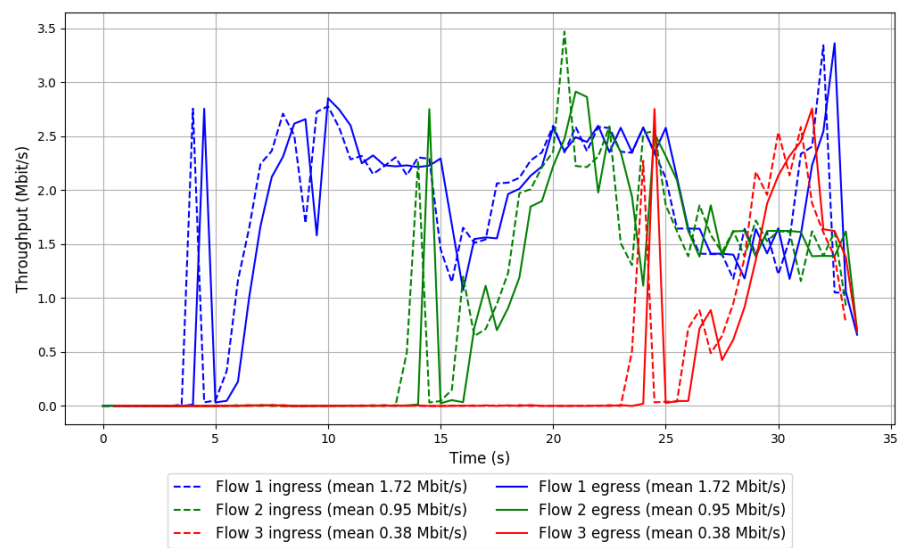
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 77.984 ms

Loss rate: 1.22%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-25 08:17:42

End at: 2018-07-25 08:18:12

Local clock offset: -2.058 ms

Remote clock offset: 8.357 ms

Below is generated by plot.py at 2018-07-25 11:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 83.697 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 83.221 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 83.875 ms

Loss rate: 0.70%

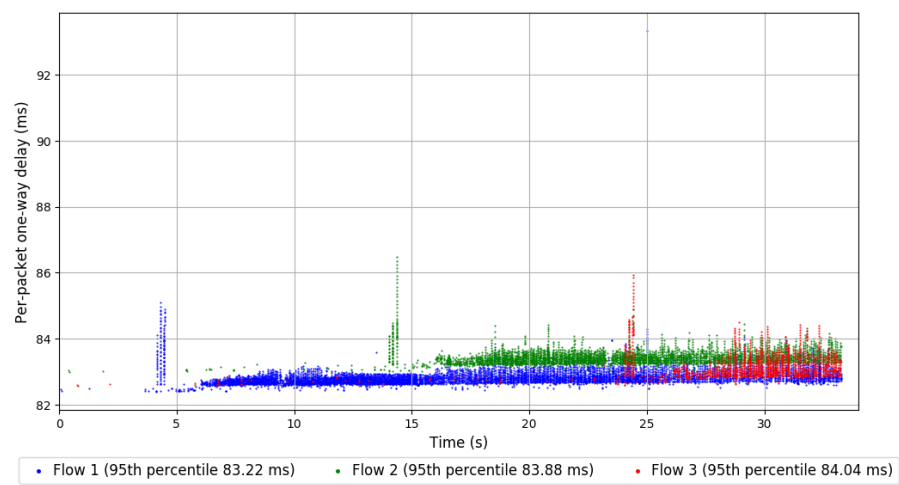
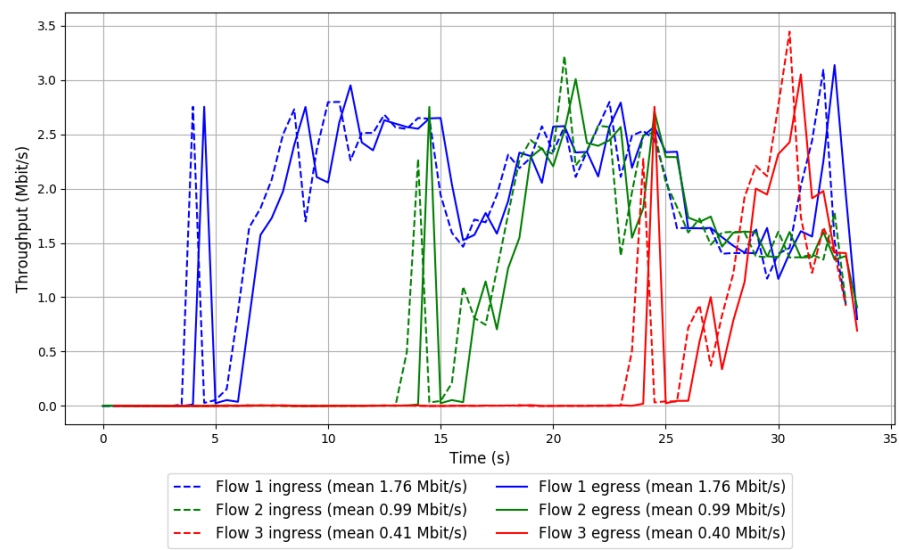
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 84.040 ms

Loss rate: 1.74%

Run 3: Report of WebRTC media — Data Link

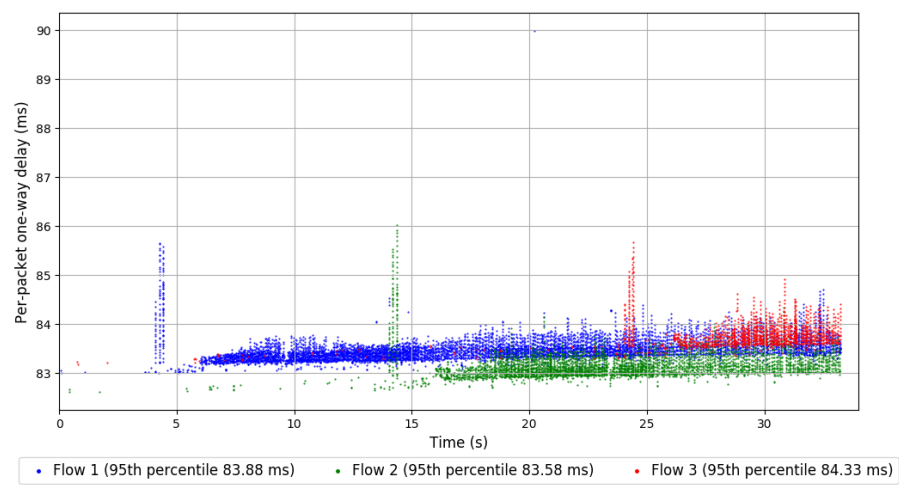
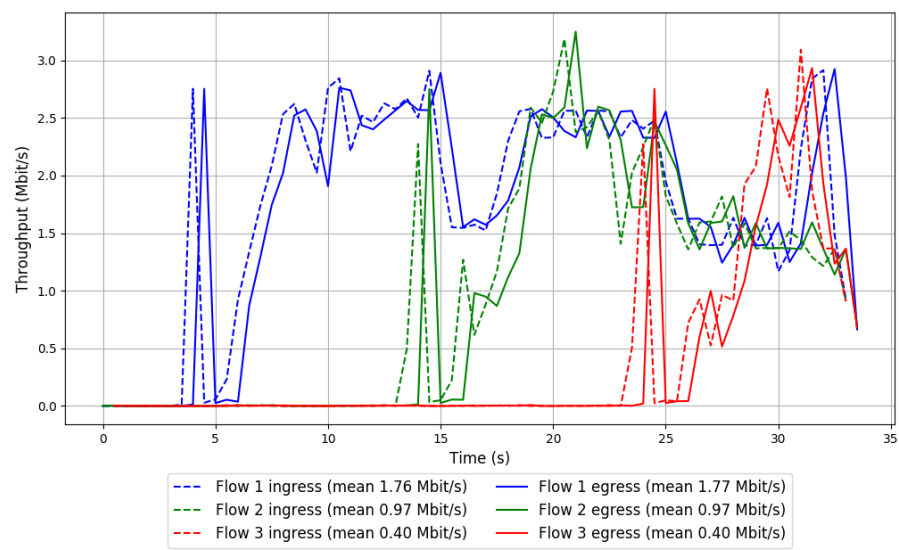


Run 4: Statistics of WebRTC media

Start at: 2018-07-25 08:38:49
End at: 2018-07-25 08:39:19
Local clock offset: -4.388 ms
Remote clock offset: 12.295 ms

```
# Below is generated by plot.py at 2018-07-25 11:26:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 83.976 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 83.880 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 83.583 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 84.334 ms
Loss rate: 1.71%
```


Run 4: Report of WebRTC media — Data Link

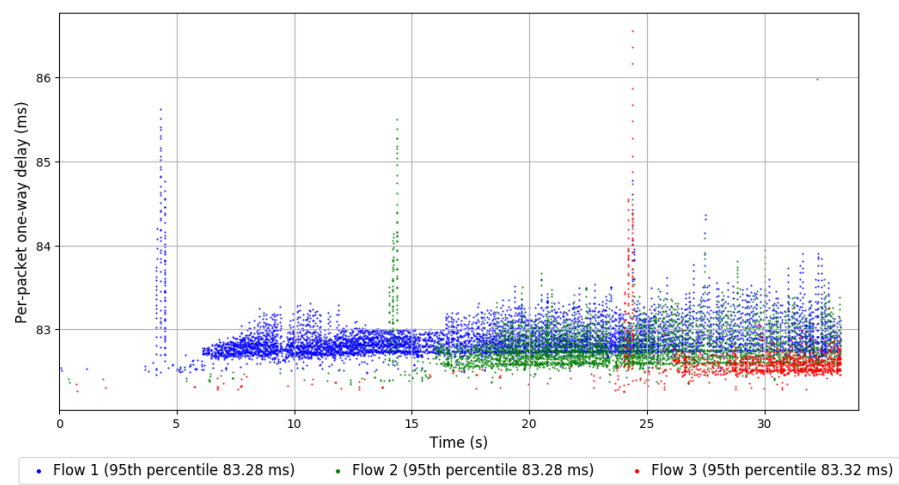
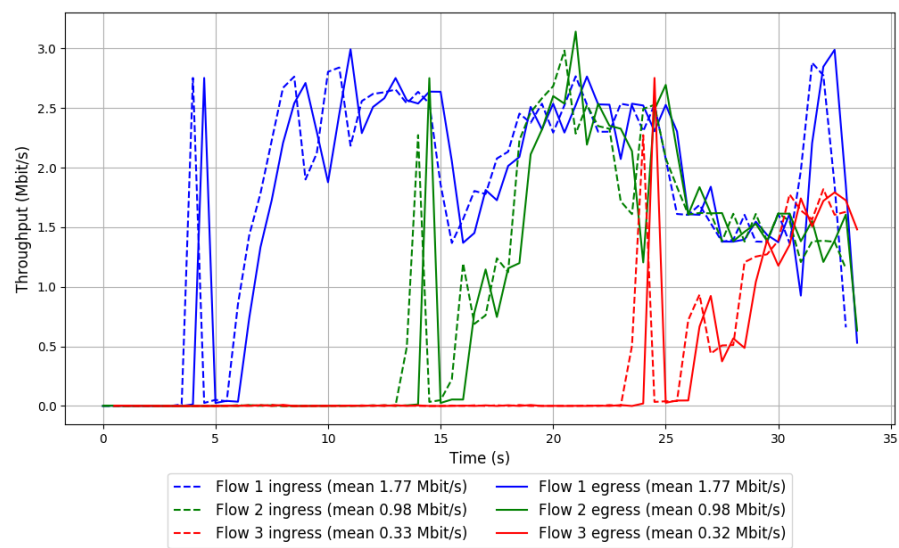


Run 5: Statistics of WebRTC media

Start at: 2018-07-25 09:00:16
End at: 2018-07-25 09:00:46
Local clock offset: -7.512 ms
Remote clock offset: 11.445 ms

Below is generated by plot.py at 2018-07-25 11:26:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 83.284 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 83.279 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 83.285 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 83.316 ms
Loss rate: 1.53%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-25 09:21:33

End at: 2018-07-25 09:22:03

Local clock offset: -2.549 ms

Remote clock offset: 6.016 ms

Below is generated by plot.py at 2018-07-25 11:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 85.047 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 83.383 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 85.182 ms

Loss rate: 1.04%

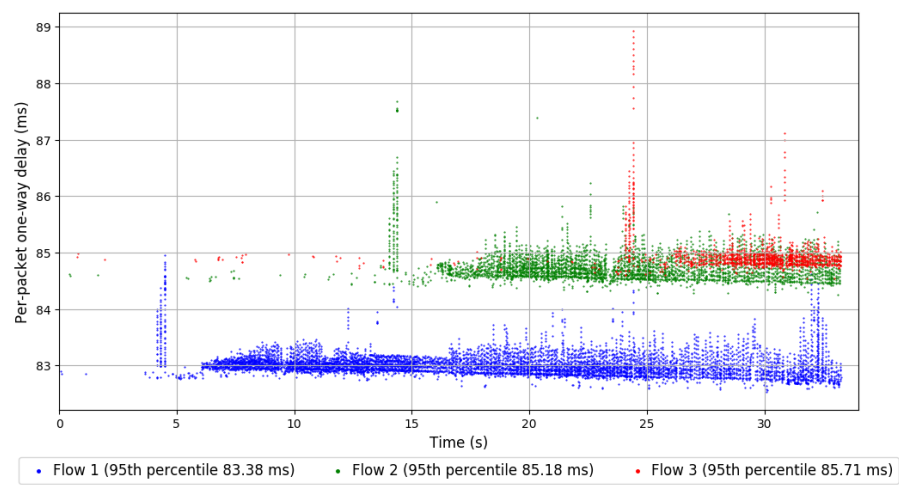
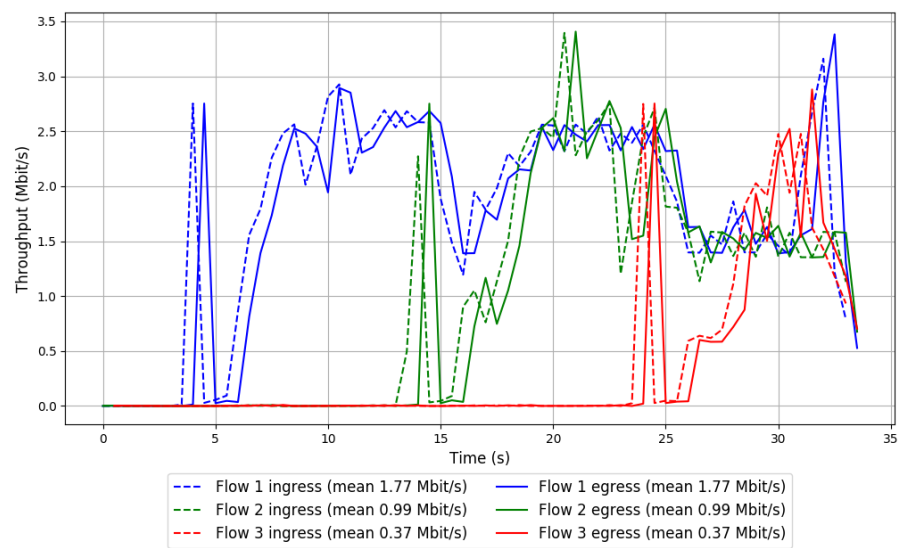
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 85.710 ms

Loss rate: 1.89%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-25 09:42:54

End at: 2018-07-25 09:43:24

Local clock offset: -5.809 ms

Remote clock offset: 0.972 ms

Below is generated by plot.py at 2018-07-25 11:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.16 Mbit/s

95th percentile per-packet one-way delay: 85.406 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 85.295 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 85.474 ms

Loss rate: 0.69%

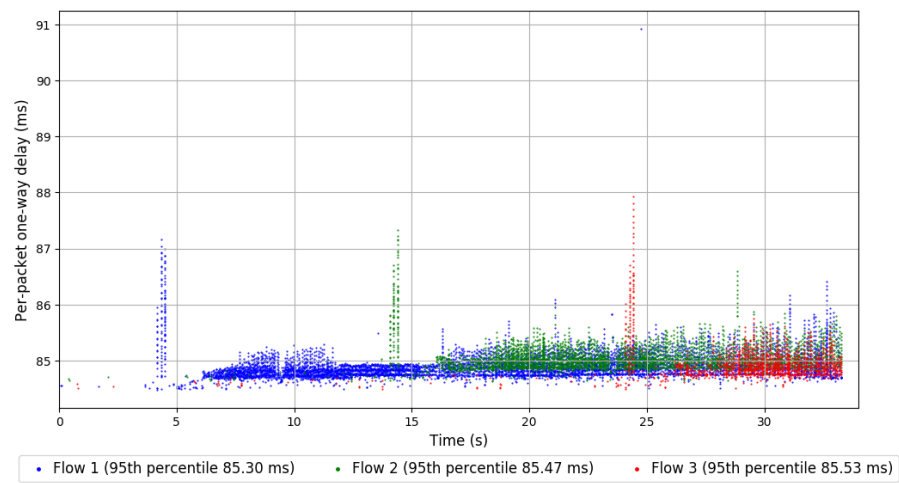
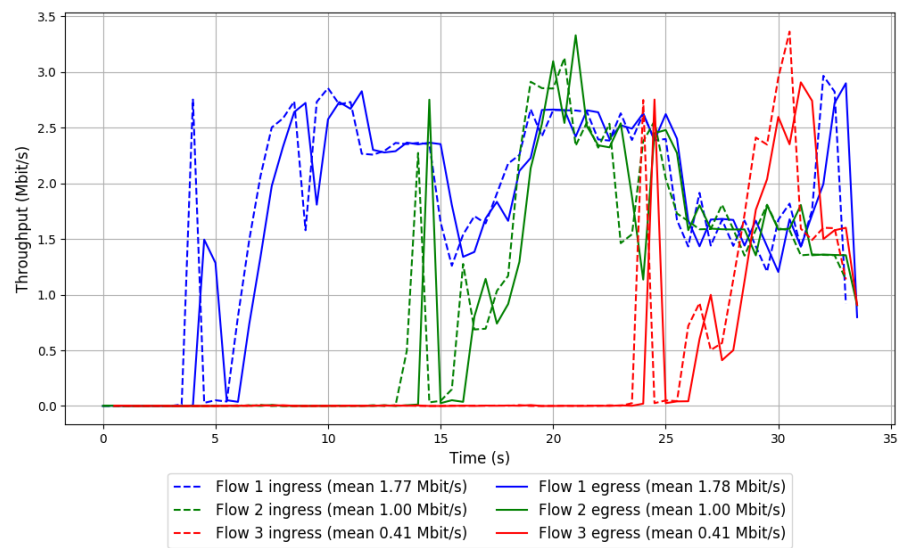
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 85.529 ms

Loss rate: 1.68%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-25 10:04:12

End at: 2018-07-25 10:04:42

Local clock offset: -6.239 ms

Remote clock offset: 3.424 ms

Below is generated by plot.py at 2018-07-25 11:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 83.785 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 81.765 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 84.017 ms

Loss rate: 0.71%

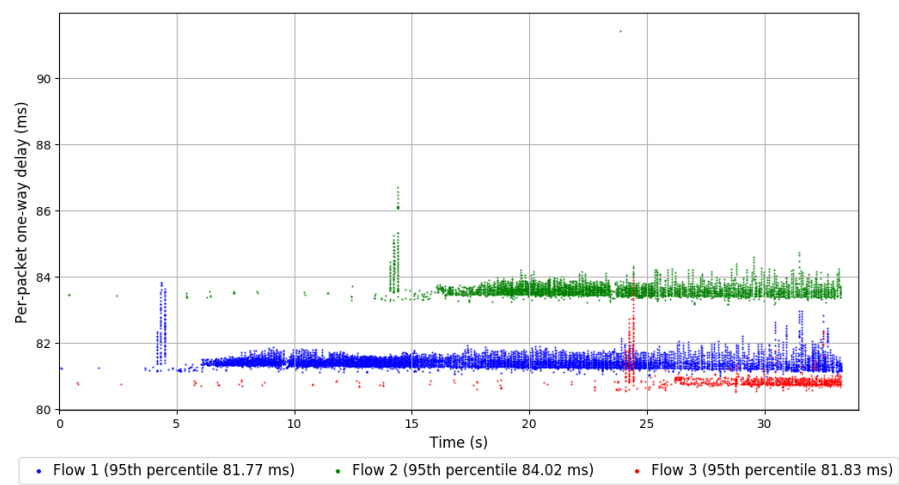
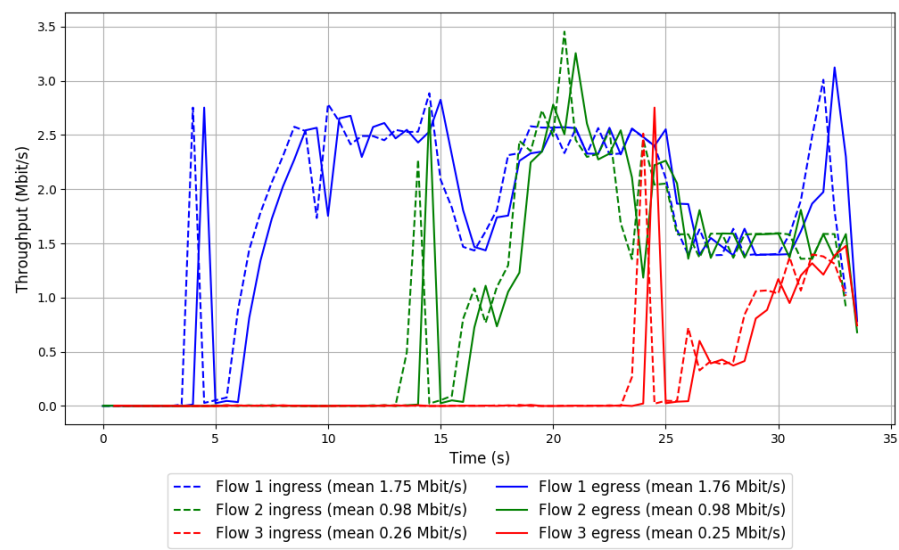
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 81.826 ms

Loss rate: 2.67%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-25 10:25:21

End at: 2018-07-25 10:25:51

Local clock offset: -2.208 ms

Remote clock offset: 2.274 ms

Below is generated by plot.py at 2018-07-25 11:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 85.549 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 84.892 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 85.725 ms

Loss rate: 0.72%

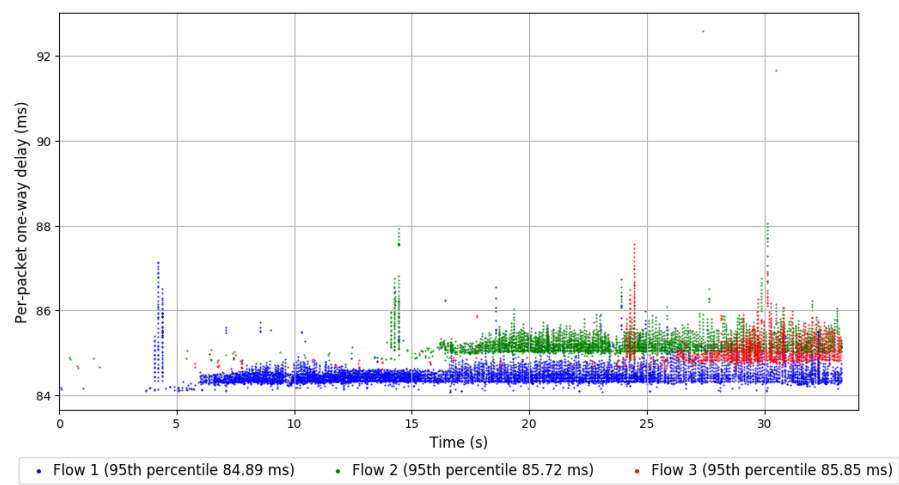
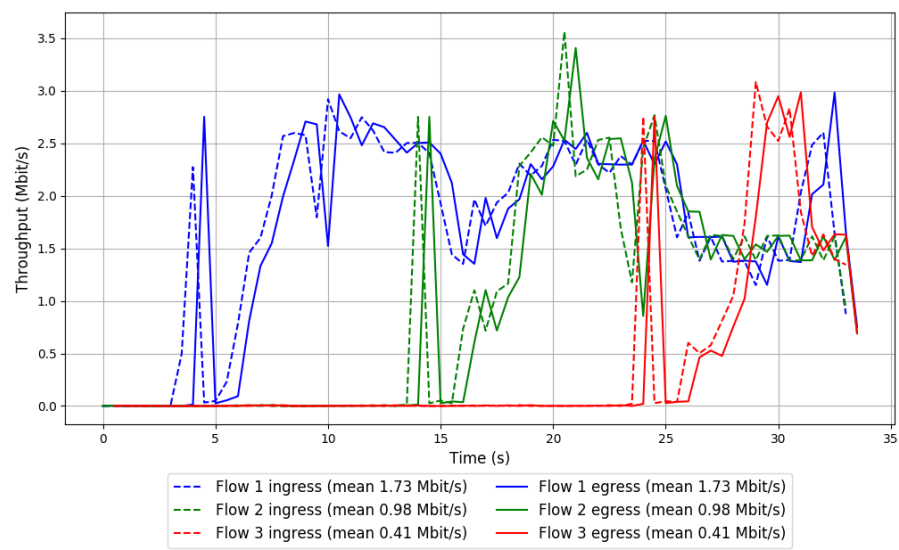
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 85.849 ms

Loss rate: 2.42%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-25 10:46:43

End at: 2018-07-25 10:47:13

Local clock offset: -1.563 ms

Remote clock offset: 2.345 ms

Below is generated by plot.py at 2018-07-25 11:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 86.165 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 83.975 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 86.673 ms

Loss rate: 0.70%

-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 86.380 ms

Loss rate: 1.78%

Run 10: Report of WebRTC media — Data Link

