

Pantheon Report

Generated at 2018-05-22 19:07:15 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

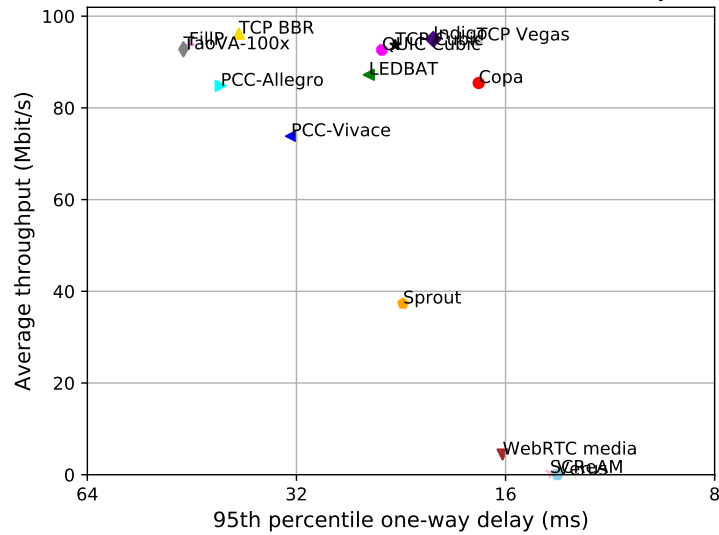
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

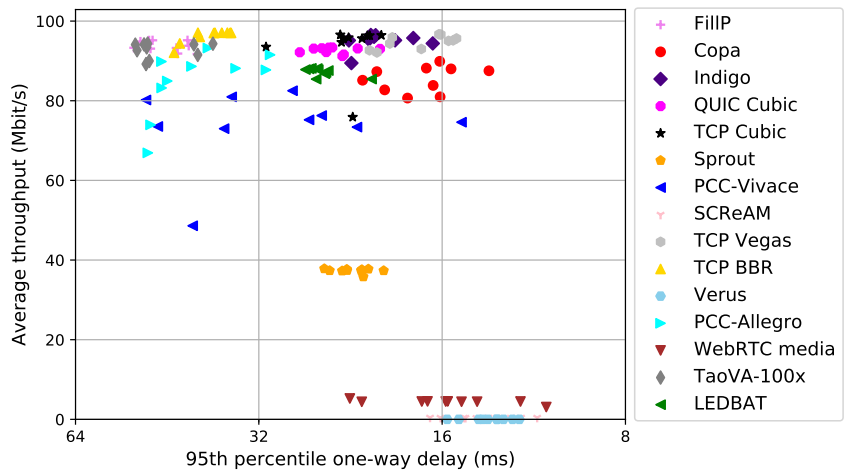
Git summary:

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

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	57.30	40.14	36.69	37.78	43.14	46.81	2.90	3.40	3.23
Copa	10	53.10	34.52	28.16	17.27	17.51	18.58	0.05	0.11	0.33
TCP Cubic	10	57.91	37.82	32.19	22.83	23.04	24.06	0.09	0.21	0.37
FillP	10	57.32	39.45	30.70	43.36	42.78	44.53	1.60	3.46	4.08
Indigo	10	57.78	39.93	33.07	19.41	20.17	21.70	0.06	0.13	0.59
LEDBAT	10	54.65	34.27	29.31	24.61	24.34	27.25	0.09	0.14	0.38
PCC-Allegro	10	55.46	33.20	22.16	40.57	34.91	28.78	2.66	1.16	0.94
PCC-Expr	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
QUIC Cubic	10	56.14	36.64	36.91	23.62	25.55	30.55	0.10	0.19	0.45
SCReAM	10	0.21	0.20	0.20	13.81	13.80	13.80	0.12	0.17	0.30
Sprout	10	18.86	18.77	18.24	21.68	22.75	24.12	0.11	0.14	0.39
TaoVA-100x	10	57.32	38.58	29.53	40.52	43.72	48.69	0.35	0.53	1.41
TCP Vegas	10	59.32	38.27	29.90	17.54	17.66	17.80	0.06	0.13	0.30
Verus	10	0.00	0.00	0.00	13.65	13.15	13.20	0.00	0.00	0.00
PCC-Vivace	10	49.93	24.72	22.64	31.74	26.77	31.26	0.46	0.37	0.79
WebRTC media	10	2.28	1.47	0.67	16.06	16.18	16.29	0.32	0.10	0.43

Run 1: Statistics of TCP BBR

Start at: 2018-05-22 15:38:12

End at: 2018-05-22 15:38:42

Local clock offset: 0.979 ms

Remote clock offset: 5.313 ms

Below is generated by plot.py at 2018-05-22 18:47:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 40.286 ms

Loss rate: 2.82%

-- Flow 1:

Average throughput: 58.97 Mbit/s

95th percentile per-packet one-way delay: 39.370 ms

Loss rate: 2.69%

-- Flow 2:

Average throughput: 40.81 Mbit/s

95th percentile per-packet one-way delay: 43.155 ms

Loss rate: 3.14%

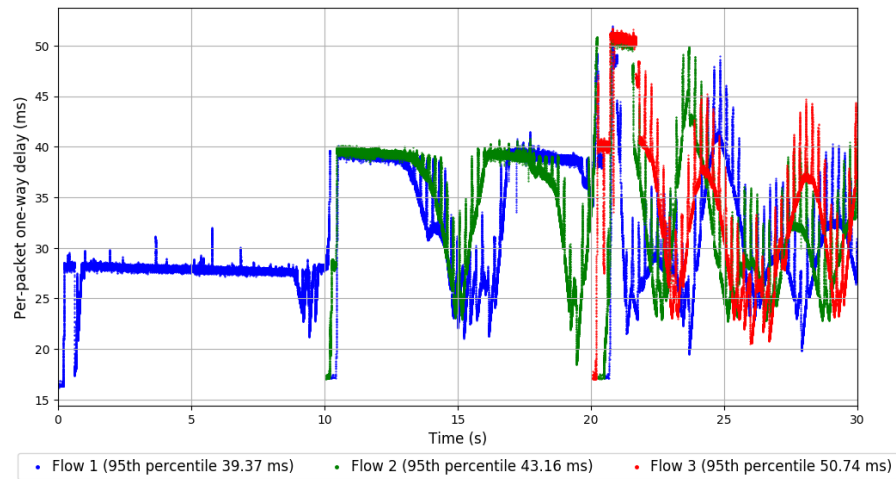
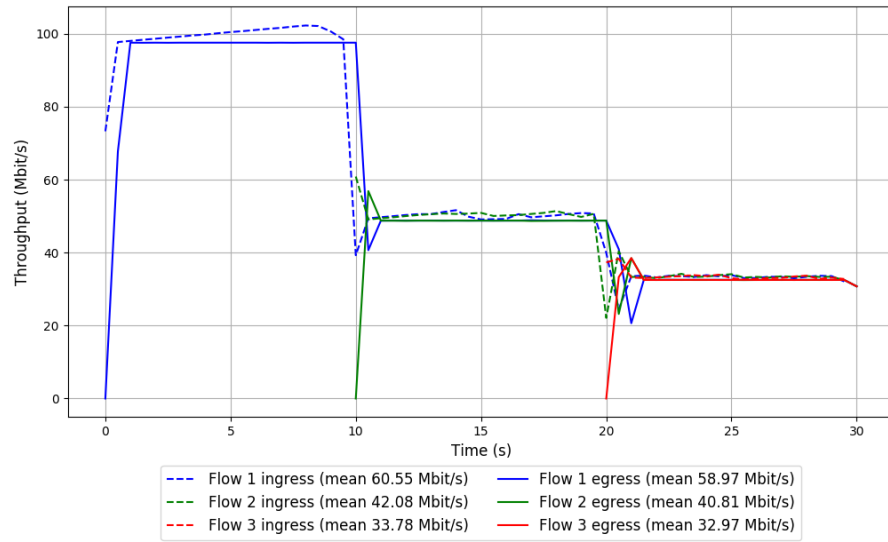
-- Flow 3:

Average throughput: 32.97 Mbit/s

95th percentile per-packet one-way delay: 50.738 ms

Loss rate: 2.72%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-22 15:57:40

End at: 2018-05-22 15:58:10

Local clock offset: -0.527 ms

Remote clock offset: 2.13 ms

Below is generated by plot.py at 2018-05-22 18:47:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 43.146 ms

Loss rate: 3.93%

-- Flow 1:

Average throughput: 54.60 Mbit/s

95th percentile per-packet one-way delay: 41.400 ms

Loss rate: 3.64%

-- Flow 2:

Average throughput: 35.86 Mbit/s

95th percentile per-packet one-way delay: 54.415 ms

Loss rate: 4.69%

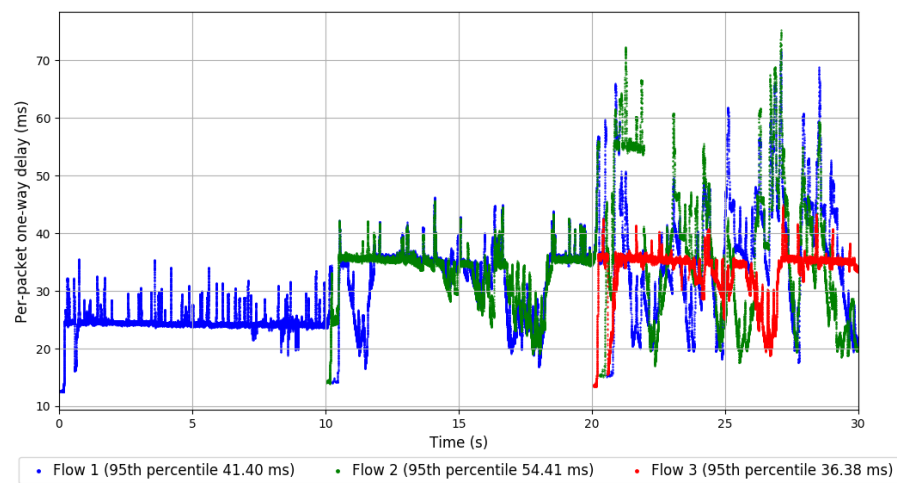
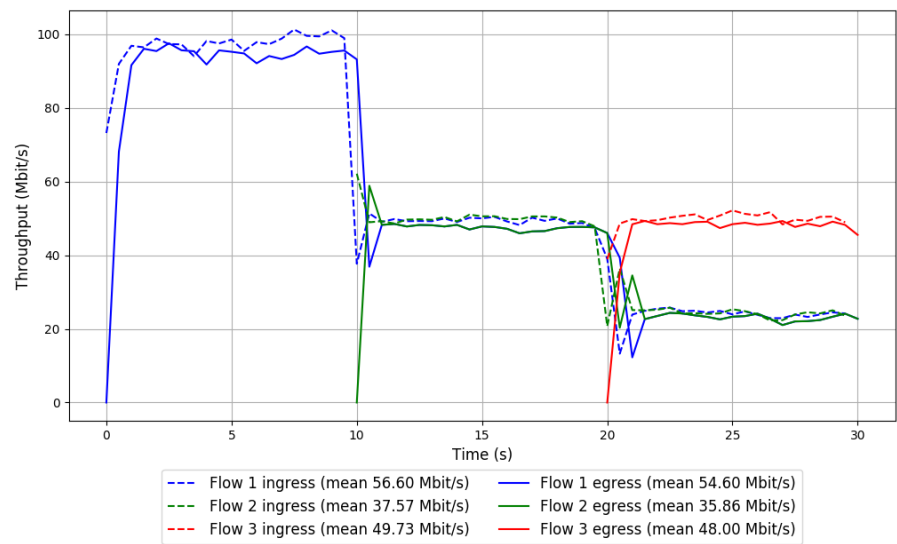
-- Flow 3:

Average throughput: 48.00 Mbit/s

95th percentile per-packet one-way delay: 36.382 ms

Loss rate: 3.74%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

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

Local clock offset: 1.274 ms

Remote clock offset: 4.401 ms

Below is generated by plot.py at 2018-05-22 18:47:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 40.011 ms

Loss rate: 3.56%

-- Flow 1:

Average throughput: 55.83 Mbit/s

95th percentile per-packet one-way delay: 37.930 ms

Loss rate: 3.27%

-- Flow 2:

Average throughput: 36.51 Mbit/s

95th percentile per-packet one-way delay: 44.228 ms

Loss rate: 3.94%

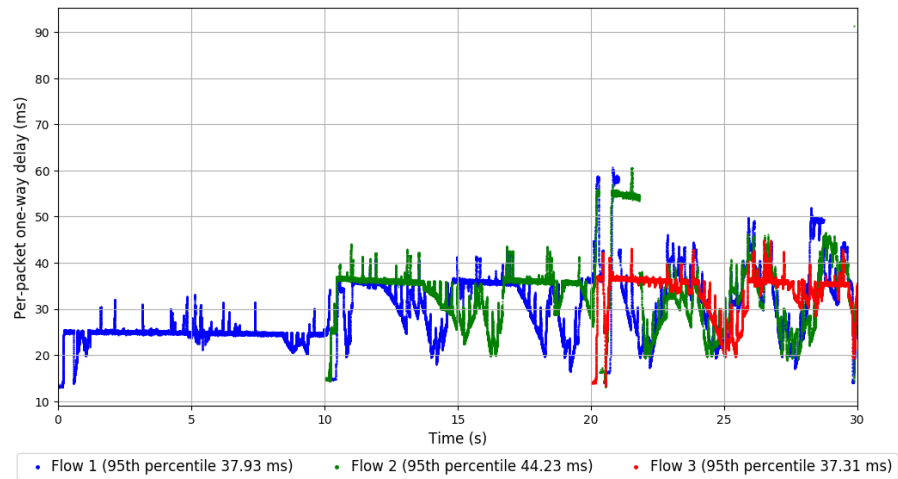
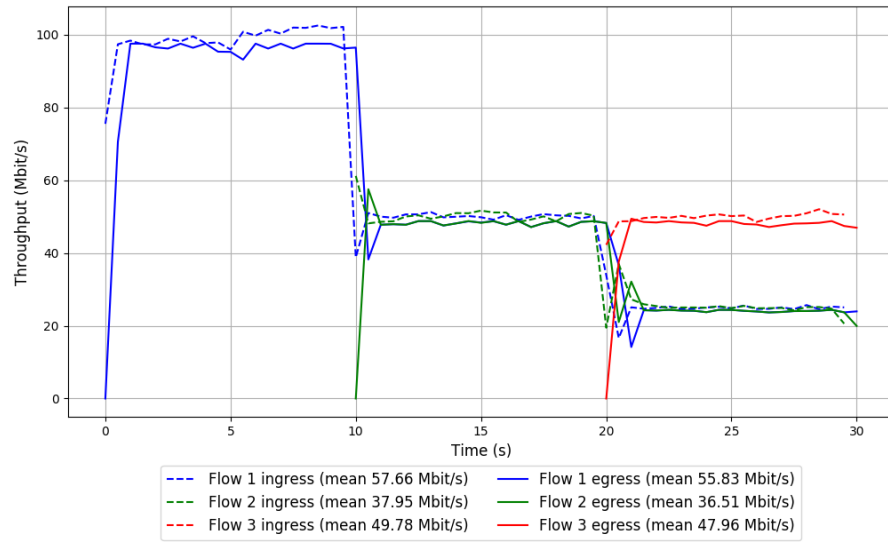
-- Flow 3:

Average throughput: 47.96 Mbit/s

95th percentile per-packet one-way delay: 37.311 ms

Loss rate: 4.02%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-22 16:36:41

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

Local clock offset: -1.07 ms

Remote clock offset: 3.4 ms

Below is generated by plot.py at 2018-05-22 18:47:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.05 Mbit/s

95th percentile per-packet one-way delay: 44.097 ms

Loss rate: 3.35%

-- Flow 1:

Average throughput: 52.15 Mbit/s

95th percentile per-packet one-way delay: 43.760 ms

Loss rate: 3.21%

-- Flow 2:

Average throughput: 35.64 Mbit/s

95th percentile per-packet one-way delay: 49.381 ms

Loss rate: 3.52%

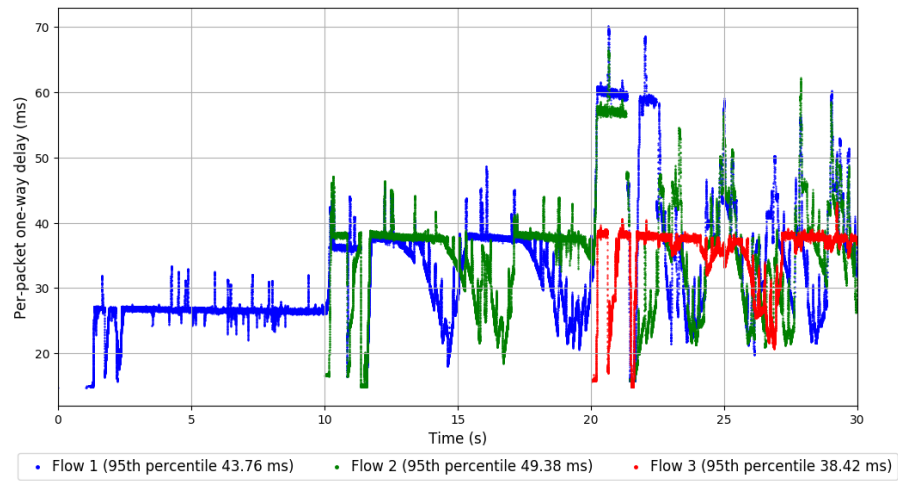
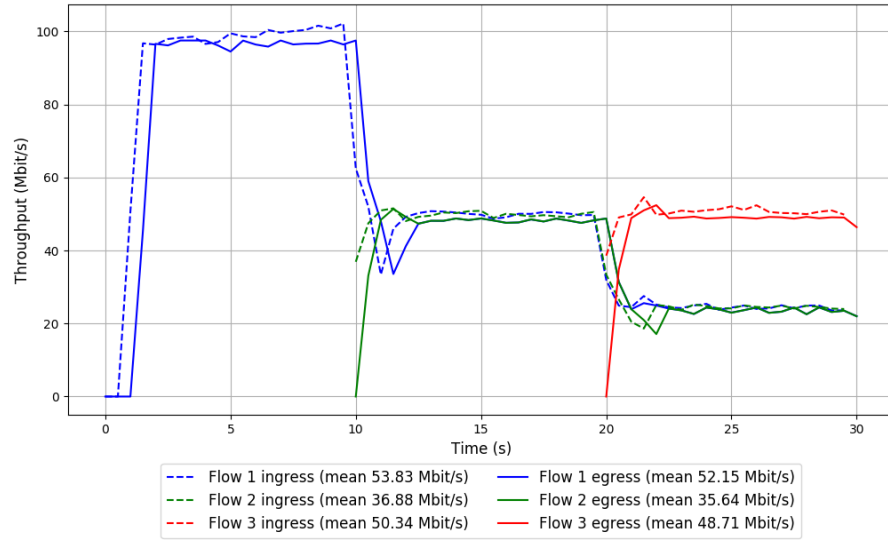
-- Flow 3:

Average throughput: 48.71 Mbit/s

95th percentile per-packet one-way delay: 38.417 ms

Loss rate: 3.55%

Run 4: Report of TCP BBR — Data Link

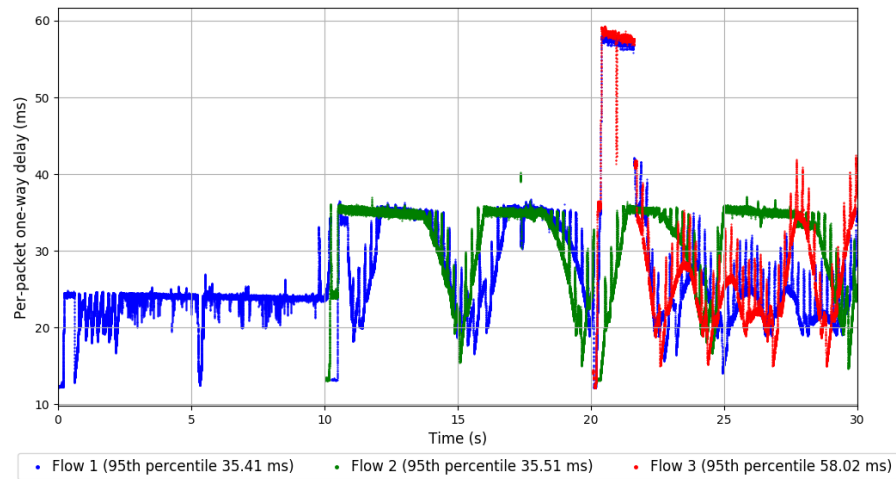
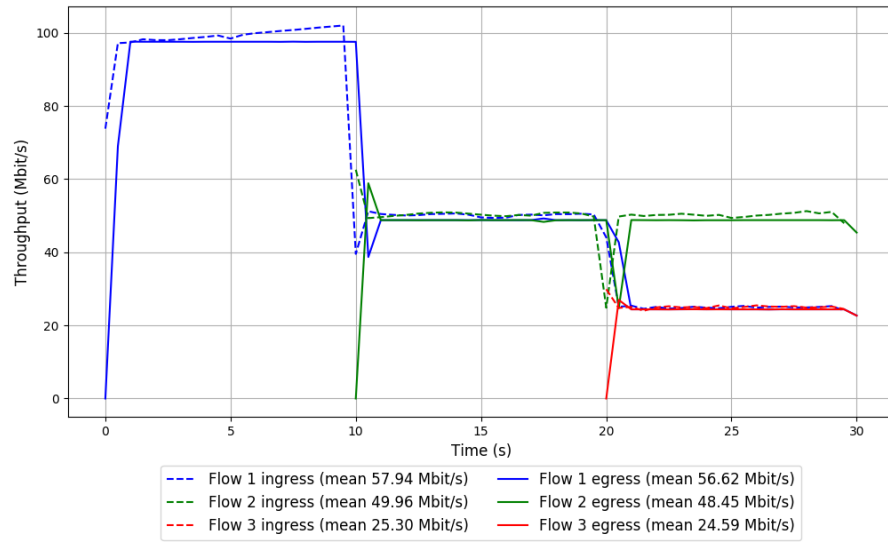


Run 5: Statistics of TCP BBR

Start at: 2018-05-22 16:56:28
End at: 2018-05-22 16:56:58
Local clock offset: -2.619 ms
Remote clock offset: -1.979 ms

Below is generated by plot.py at 2018-05-22 18:48:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.04 Mbit/s
95th percentile per-packet one-way delay: 35.539 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 56.62 Mbit/s
95th percentile per-packet one-way delay: 35.405 ms
Loss rate: 2.37%
-- Flow 2:
Average throughput: 48.45 Mbit/s
95th percentile per-packet one-way delay: 35.514 ms
Loss rate: 3.16%
-- Flow 3:
Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 58.024 ms
Loss rate: 3.07%

Run 5: Report of TCP BBR — Data Link

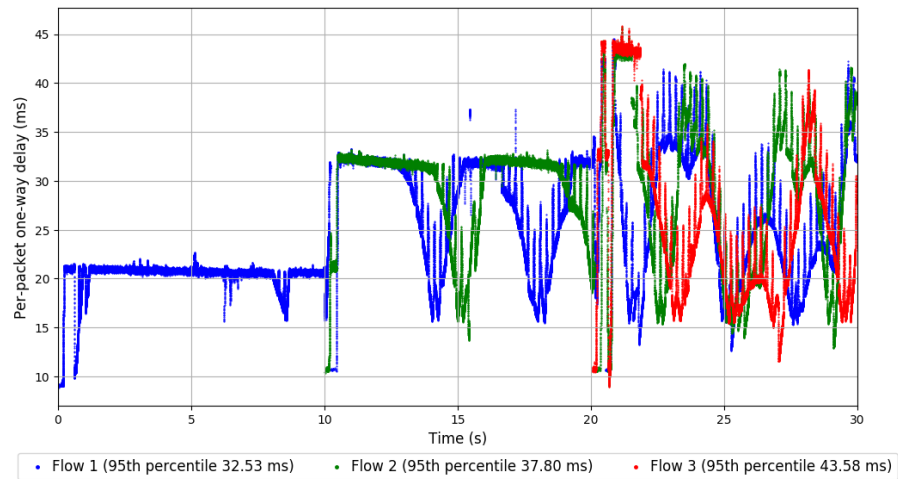
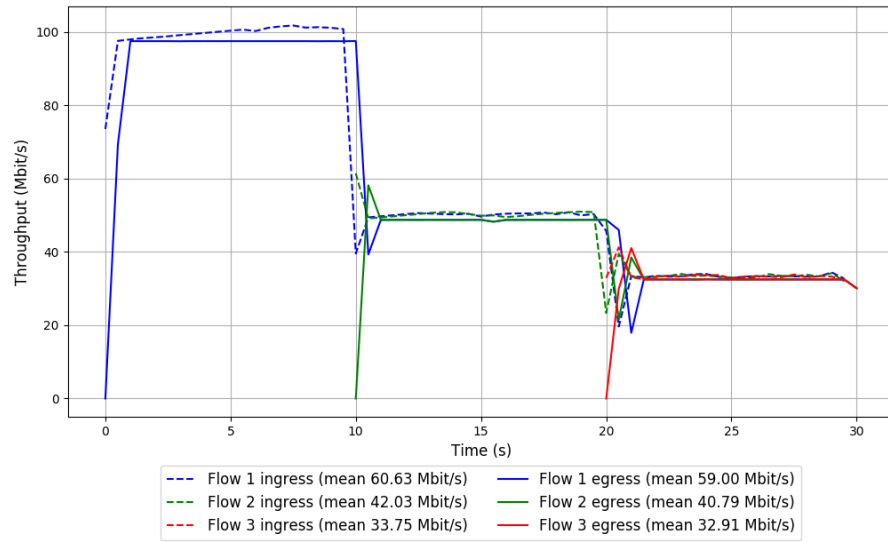


Run 6: Statistics of TCP BBR

Start at: 2018-05-22 17:16:34
End at: 2018-05-22 17:17:04
Local clock offset: -8.393 ms
Remote clock offset: -7.448 ms

Below is generated by plot.py at 2018-05-22 18:48:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 35.653 ms
Loss rate: 2.88%
-- Flow 1:
Average throughput: 59.00 Mbit/s
95th percentile per-packet one-way delay: 32.528 ms
Loss rate: 2.78%
-- Flow 2:
Average throughput: 40.79 Mbit/s
95th percentile per-packet one-way delay: 37.802 ms
Loss rate: 3.11%
-- Flow 3:
Average throughput: 32.91 Mbit/s
95th percentile per-packet one-way delay: 43.580 ms
Loss rate: 2.82%

Run 6: Report of TCP BBR — Data Link

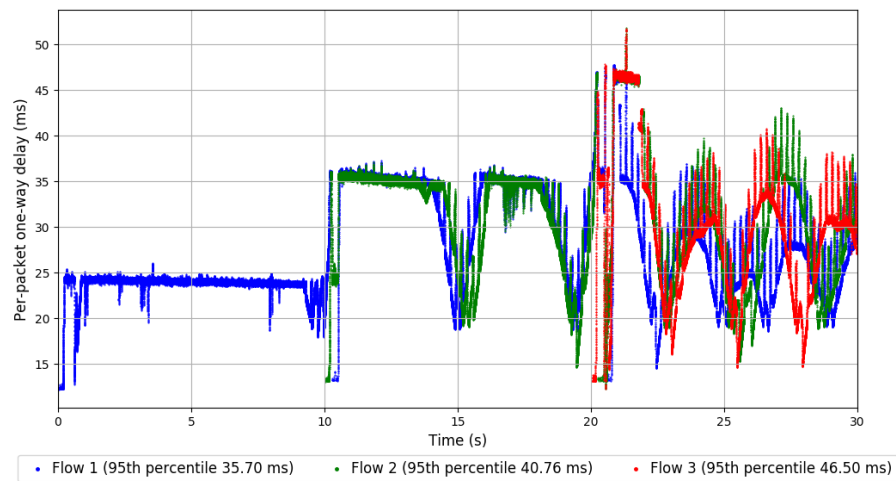
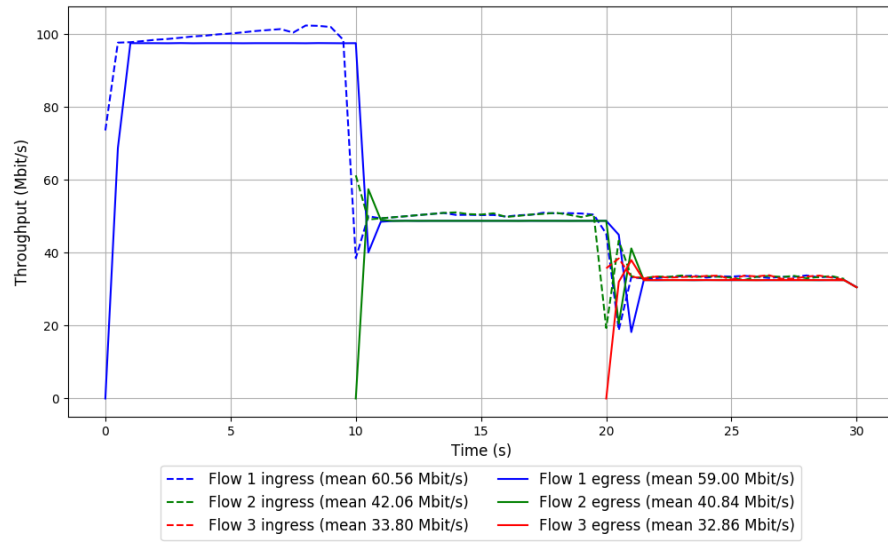


Run 7: Statistics of TCP BBR

Start at: 2018-05-22 17:35:57
End at: 2018-05-22 17:36:27
Local clock offset: -1.407 ms
Remote clock offset: -2.775 ms

Below is generated by plot.py at 2018-05-22 18:48:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 36.040 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 59.00 Mbit/s
95th percentile per-packet one-way delay: 35.700 ms
Loss rate: 2.68%
-- Flow 2:
Average throughput: 40.84 Mbit/s
95th percentile per-packet one-way delay: 40.763 ms
Loss rate: 3.04%
-- Flow 3:
Average throughput: 32.86 Mbit/s
95th percentile per-packet one-way delay: 46.501 ms
Loss rate: 3.08%

Run 7: Report of TCP BBR — Data Link

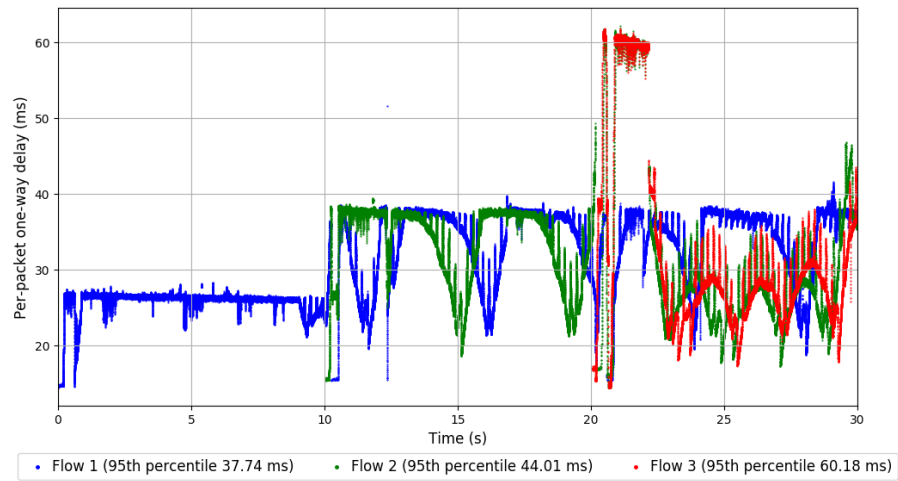
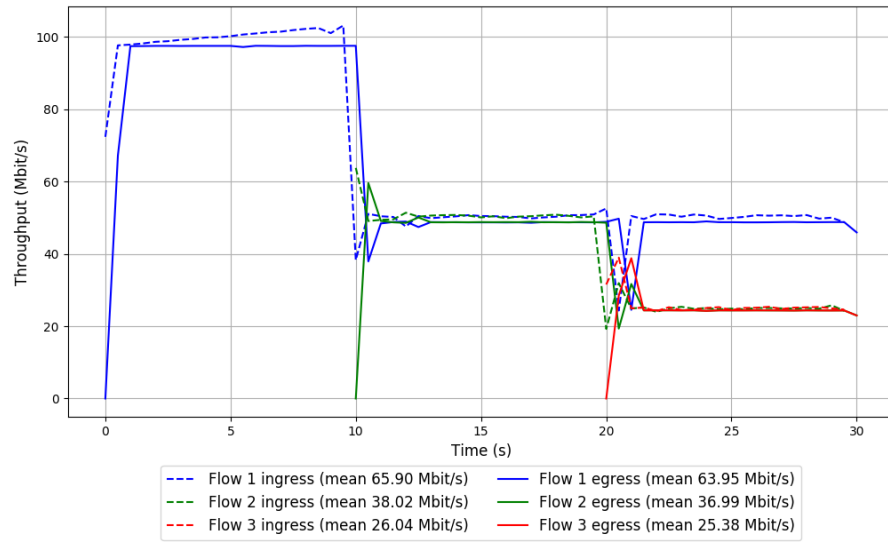


Run 8: Statistics of TCP BBR

Start at: 2018-05-22 17:55:17
End at: 2018-05-22 17:55:47
Local clock offset: 1.898 ms
Remote clock offset: -5.019 ms

Below is generated by plot.py at 2018-05-22 18:48:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.00 Mbit/s
95th percentile per-packet one-way delay: 37.942 ms
Loss rate: 2.99%
-- Flow 1:
Average throughput: 63.95 Mbit/s
95th percentile per-packet one-way delay: 37.743 ms
Loss rate: 3.06%
-- Flow 2:
Average throughput: 36.99 Mbit/s
95th percentile per-packet one-way delay: 44.007 ms
Loss rate: 2.86%
-- Flow 3:
Average throughput: 25.38 Mbit/s
95th percentile per-packet one-way delay: 60.176 ms
Loss rate: 2.87%

Run 8: Report of TCP BBR — Data Link

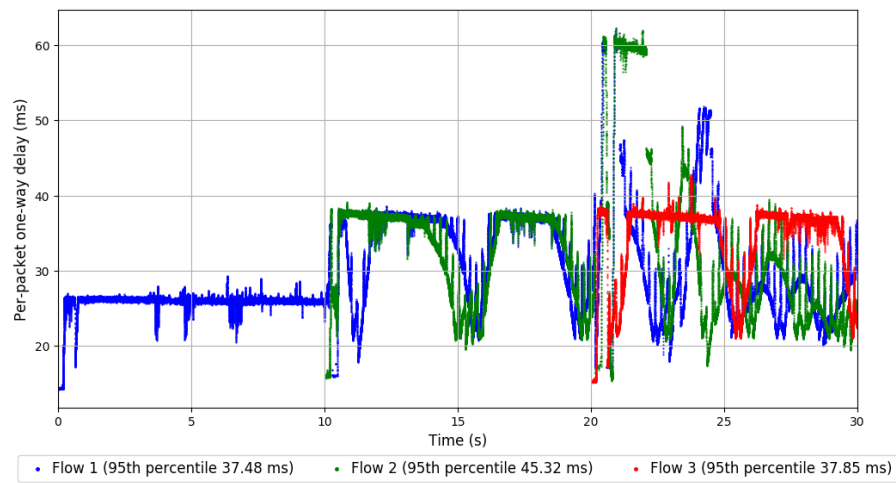
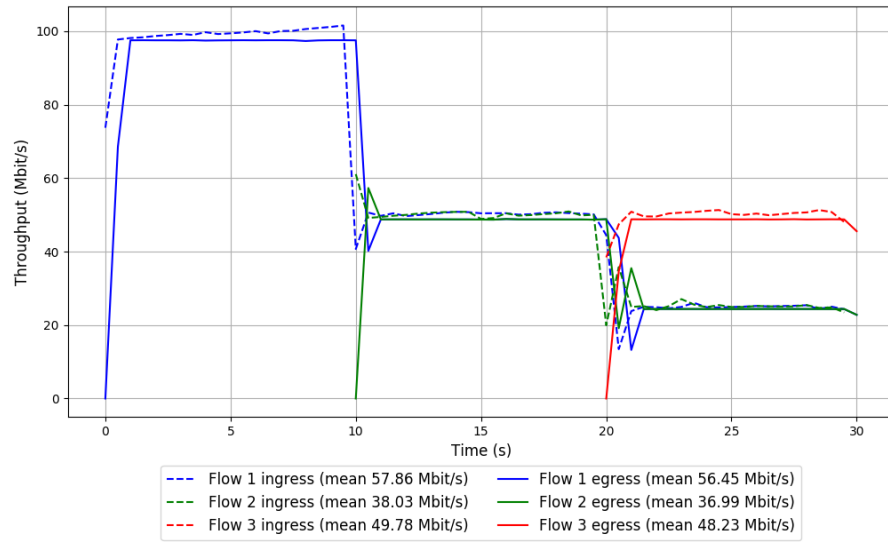


Run 9: Statistics of TCP BBR

Start at: 2018-05-22 18:14:34
End at: 2018-05-22 18:15:04
Local clock offset: 0.773 ms
Remote clock offset: -9.125 ms

Below is generated by plot.py at 2018-05-22 18:48:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.08 Mbit/s
95th percentile per-packet one-way delay: 37.782 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 56.45 Mbit/s
95th percentile per-packet one-way delay: 37.482 ms
Loss rate: 2.52%
-- Flow 2:
Average throughput: 36.99 Mbit/s
95th percentile per-packet one-way delay: 45.322 ms
Loss rate: 2.87%
-- Flow 3:
Average throughput: 48.23 Mbit/s
95th percentile per-packet one-way delay: 37.849 ms
Loss rate: 3.41%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-22 18:33:49

End at: 2018-05-22 18:34:19

Local clock offset: -0.542 ms

Remote clock offset: -3.19 ms

Below is generated by plot.py at 2018-05-22 18:48:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 36.811 ms

Loss rate: 3.08%

-- Flow 1:

Average throughput: 56.38 Mbit/s

95th percentile per-packet one-way delay: 36.518 ms

Loss rate: 2.77%

-- Flow 2:

Average throughput: 48.54 Mbit/s

95th percentile per-packet one-way delay: 36.830 ms

Loss rate: 3.64%

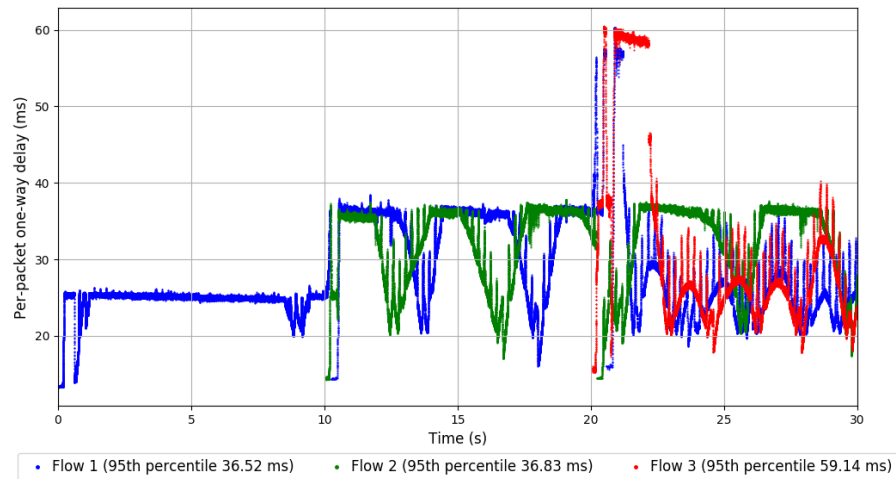
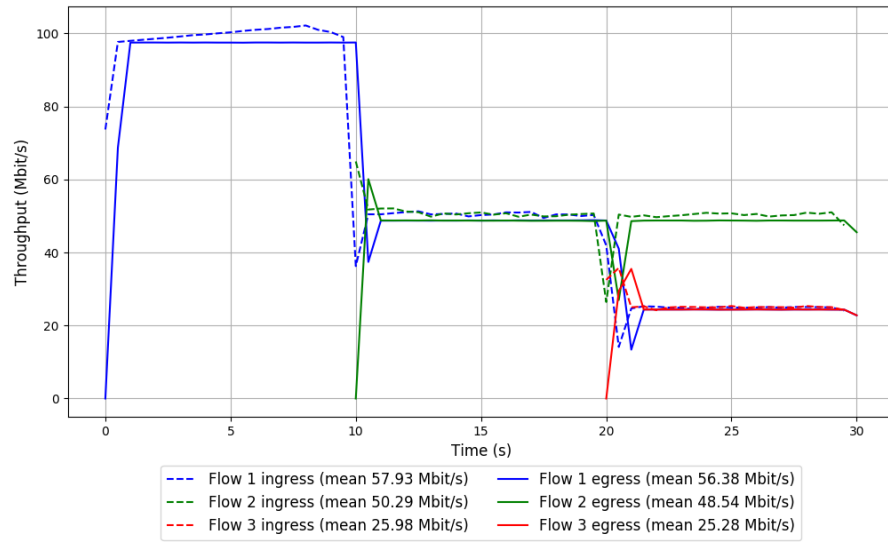
-- Flow 3:

Average throughput: 25.28 Mbit/s

95th percentile per-packet one-way delay: 59.141 ms

Loss rate: 3.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-22 15:47:51

End at: 2018-05-22 15:48:21

Local clock offset: 0.989 ms

Remote clock offset: 4.402 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.15 Mbit/s

95th percentile per-packet one-way delay: 21.617 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 53.34 Mbit/s

95th percentile per-packet one-way delay: 22.365 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 20.809 ms

Loss rate: 0.12%

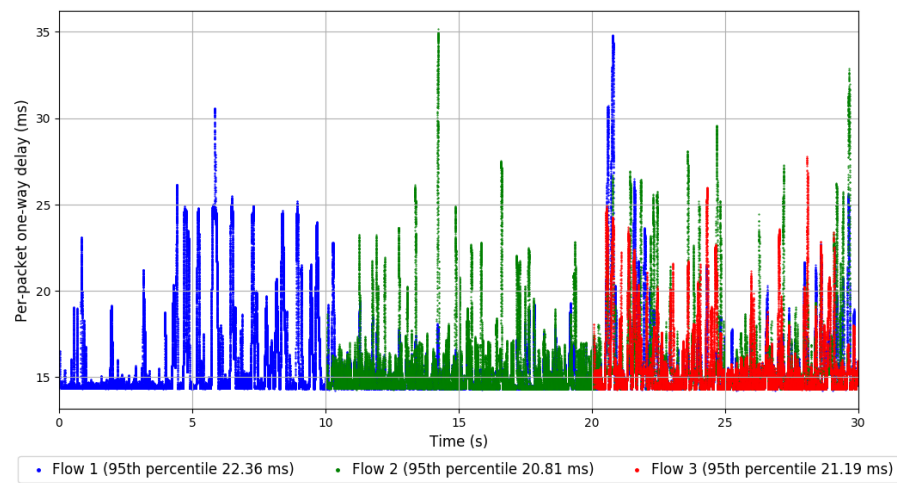
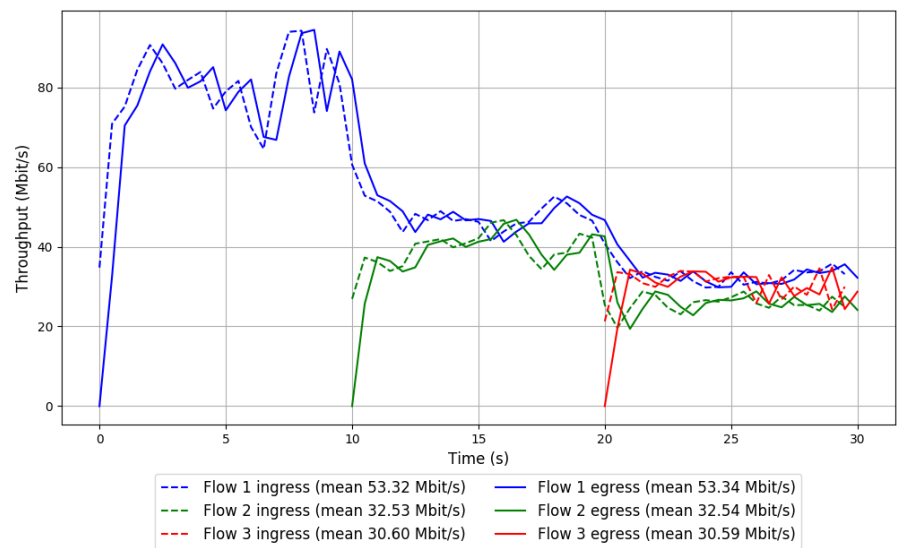
-- Flow 3:

Average throughput: 30.59 Mbit/s

95th percentile per-packet one-way delay: 21.192 ms

Loss rate: 0.33%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-22 16:07:19

End at: 2018-05-22 16:07:49

Local clock offset: 0.538 ms

Remote clock offset: 3.978 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.73 Mbit/s

95th percentile per-packet one-way delay: 19.884 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 50.53 Mbit/s

95th percentile per-packet one-way delay: 19.480 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 34.85 Mbit/s

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

Loss rate: 0.15%

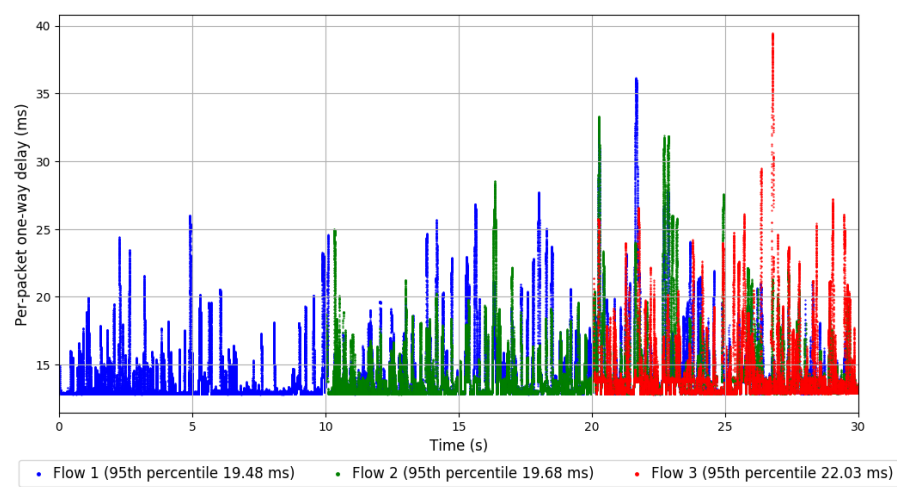
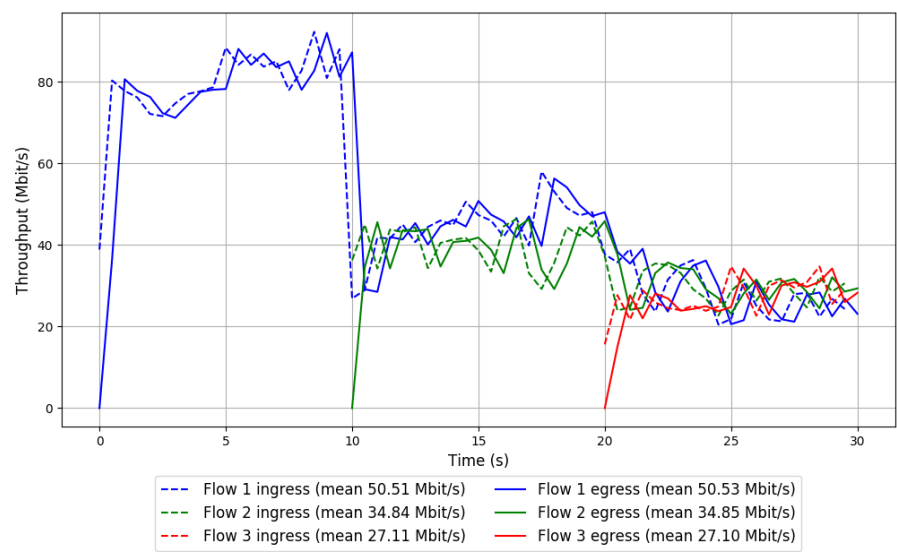
-- Flow 3:

Average throughput: 27.10 Mbit/s

95th percentile per-packet one-way delay: 22.029 ms

Loss rate: 0.31%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-22 16:26:44

End at: 2018-05-22 16:27:14

Local clock offset: -2.651 ms

Remote clock offset: 4.202 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.84 Mbit/s

95th percentile per-packet one-way delay: 16.553 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 54.81 Mbit/s

95th percentile per-packet one-way delay: 17.188 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 29.98 Mbit/s

95th percentile per-packet one-way delay: 16.228 ms

Loss rate: 0.15%

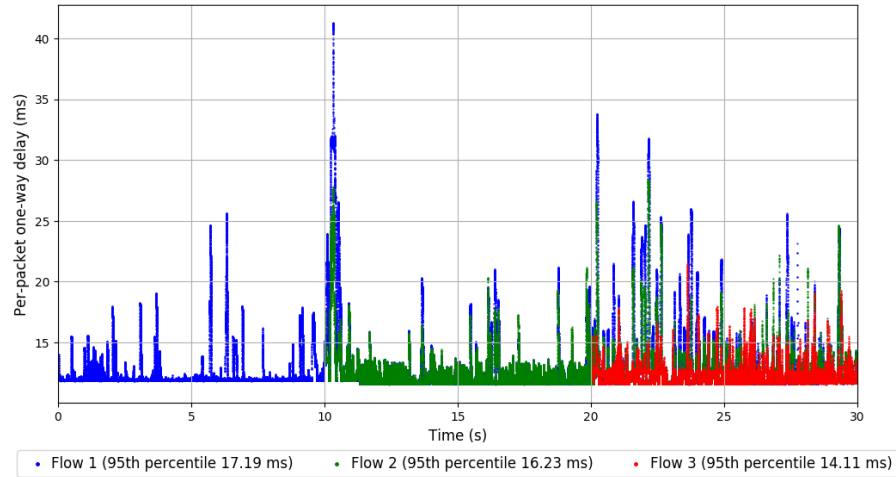
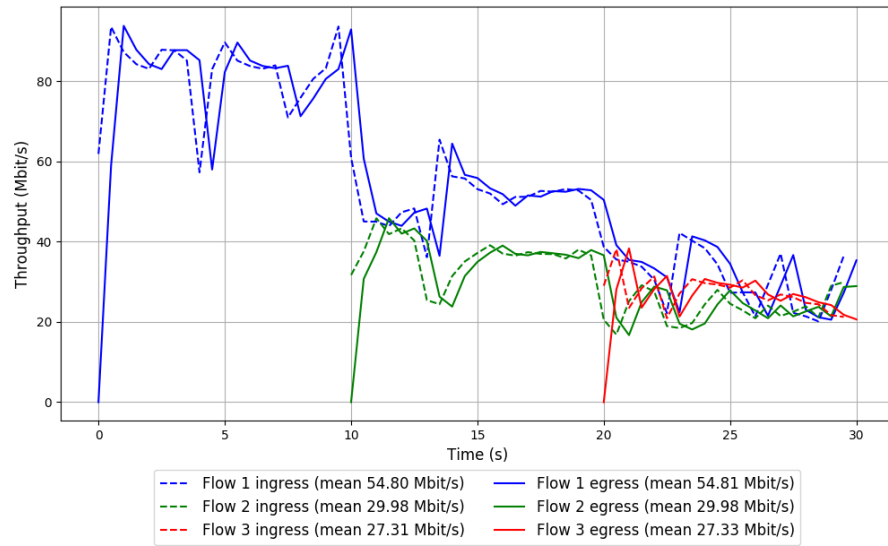
-- Flow 3:

Average throughput: 27.33 Mbit/s

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

Loss rate: 0.22%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-22 16:46:17

End at: 2018-05-22 16:46:47

Local clock offset: -1.953 ms

Remote clock offset: 2.314 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.98 Mbit/s

95th percentile per-packet one-way delay: 16.123 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 47.24 Mbit/s

95th percentile per-packet one-way delay: 15.975 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 34.79 Mbit/s

95th percentile per-packet one-way delay: 15.487 ms

Loss rate: 0.09%

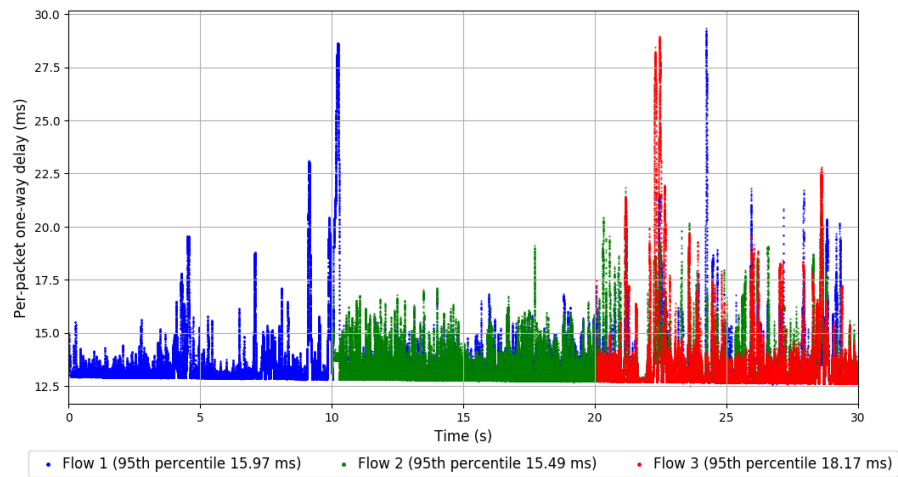
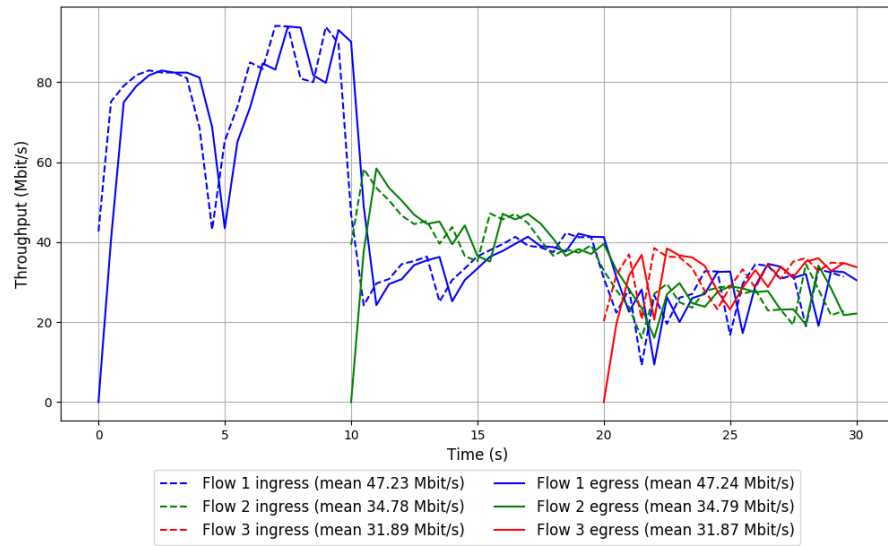
-- Flow 3:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 18.167 ms

Loss rate: 0.31%

Run 4: Report of Copa — Data Link

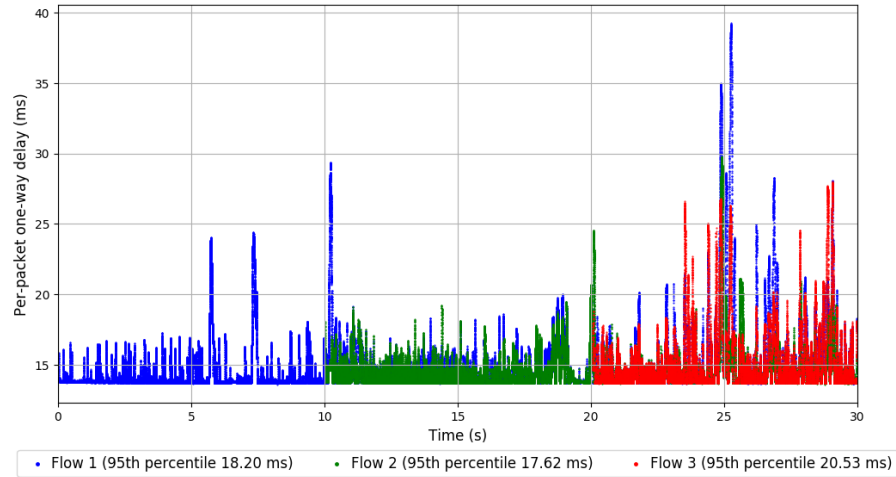
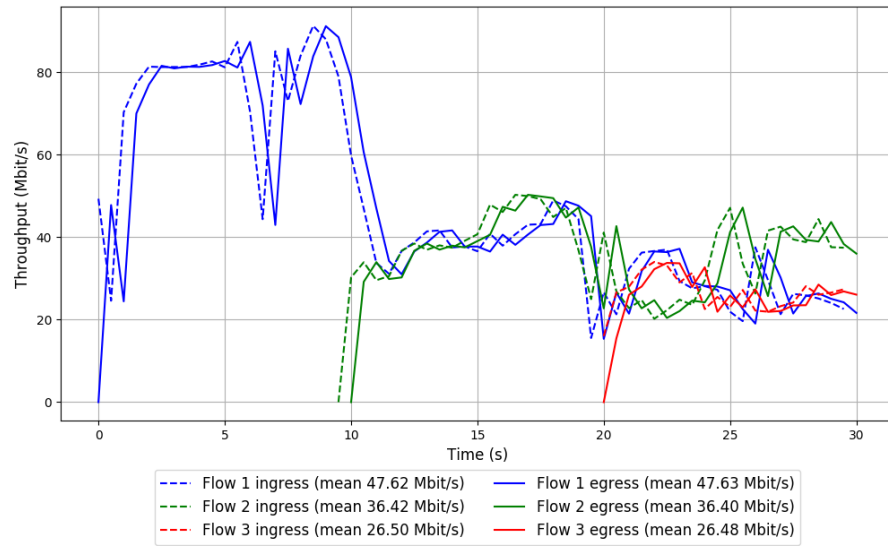


Run 5: Statistics of Copa

Start at: 2018-05-22 17:06:30
End at: 2018-05-22 17:07:00
Local clock offset: -1.747 ms
Remote clock offset: -4.364 ms

Below is generated by plot.py at 2018-05-22 18:49:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.67 Mbit/s
95th percentile per-packet one-way delay: 18.236 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 47.63 Mbit/s
95th percentile per-packet one-way delay: 18.197 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 36.40 Mbit/s
95th percentile per-packet one-way delay: 17.620 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 26.48 Mbit/s
95th percentile per-packet one-way delay: 20.533 ms
Loss rate: 0.36%

Run 5: Report of Copa — Data Link

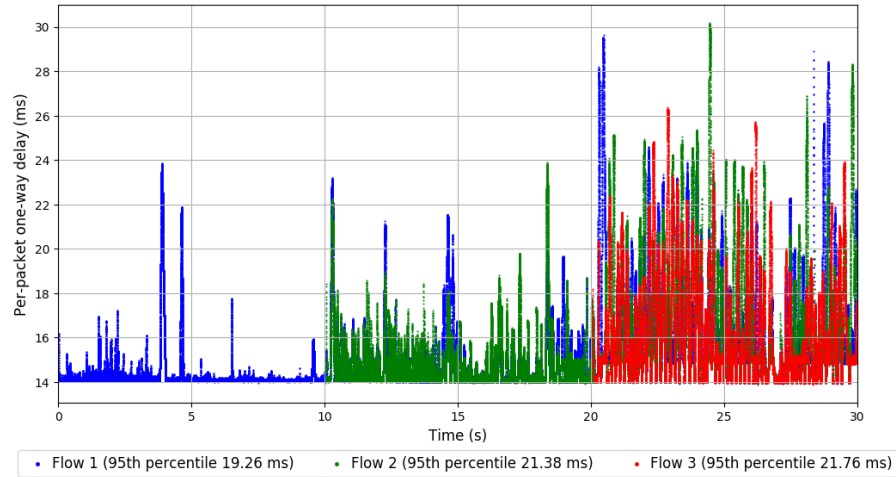
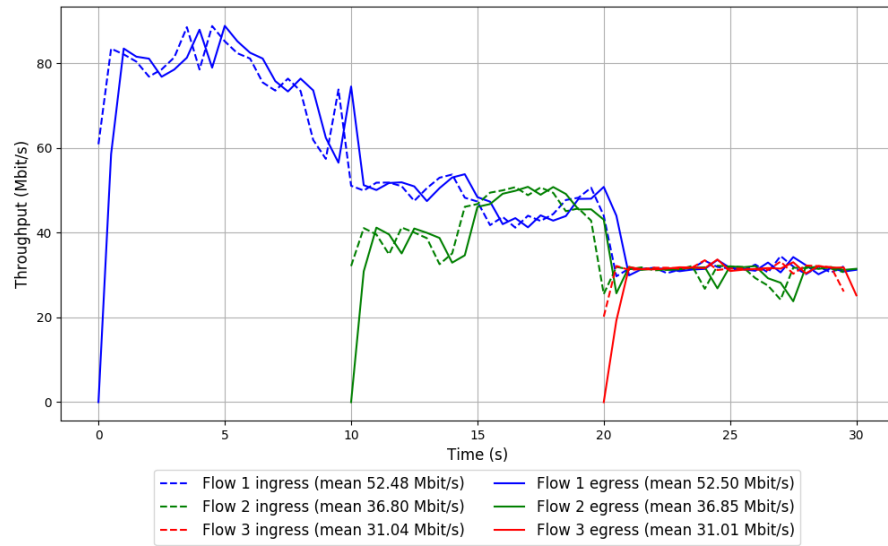


Run 6: Statistics of Copa

Start at: 2018-05-22 17:26:11
End at: 2018-05-22 17:26:41
Local clock offset: -1.994 ms
Remote clock offset: -3.784 ms

Below is generated by plot.py at 2018-05-22 18:50:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.31 Mbit/s
95th percentile per-packet one-way delay: 20.485 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 52.50 Mbit/s
95th percentile per-packet one-way delay: 19.261 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 36.85 Mbit/s
95th percentile per-packet one-way delay: 21.375 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 31.01 Mbit/s
95th percentile per-packet one-way delay: 21.758 ms
Loss rate: 0.38%

Run 6: Report of Copa — Data Link

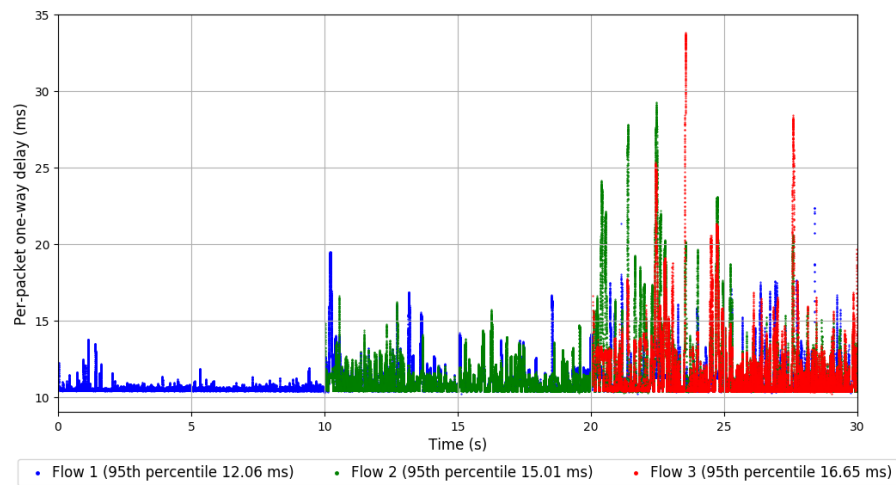
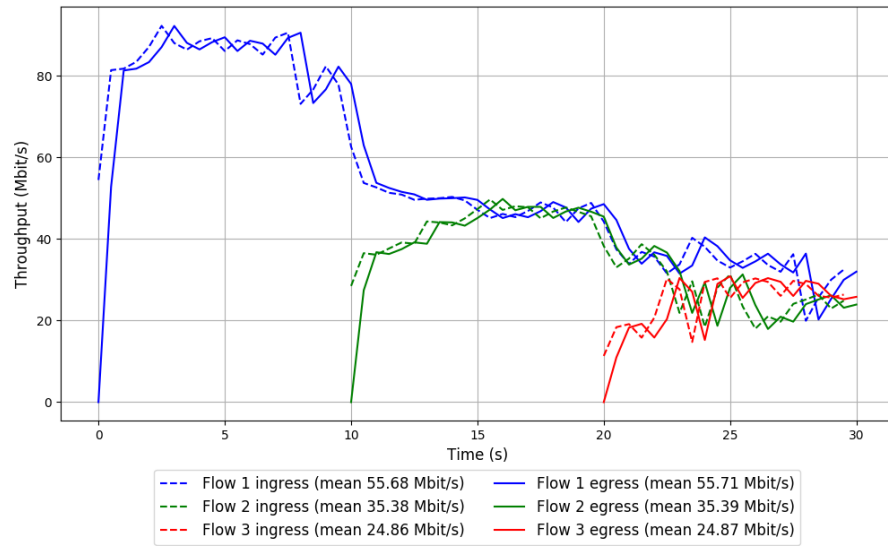


Run 7: Statistics of Copa

Start at: 2018-05-22 17:45:24
End at: 2018-05-22 17:45:54
Local clock offset: -2.52 ms
Remote clock offset: -2.881 ms

Below is generated by plot.py at 2018-05-22 18:51:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.53 Mbit/s
95th percentile per-packet one-way delay: 13.405 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 55.71 Mbit/s
95th percentile per-packet one-way delay: 12.057 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 35.39 Mbit/s
95th percentile per-packet one-way delay: 15.008 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 24.87 Mbit/s
95th percentile per-packet one-way delay: 16.649 ms
Loss rate: 0.31%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-22 18:04:52

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

Local clock offset: -0.212 ms

Remote clock offset: -7.81 ms

Below is generated by plot.py at 2018-05-22 18:51:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.89 Mbit/s

95th percentile per-packet one-way delay: 16.146 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 58.57 Mbit/s

95th percentile per-packet one-way delay: 16.325 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 34.21 Mbit/s

95th percentile per-packet one-way delay: 15.071 ms

Loss rate: 0.12%

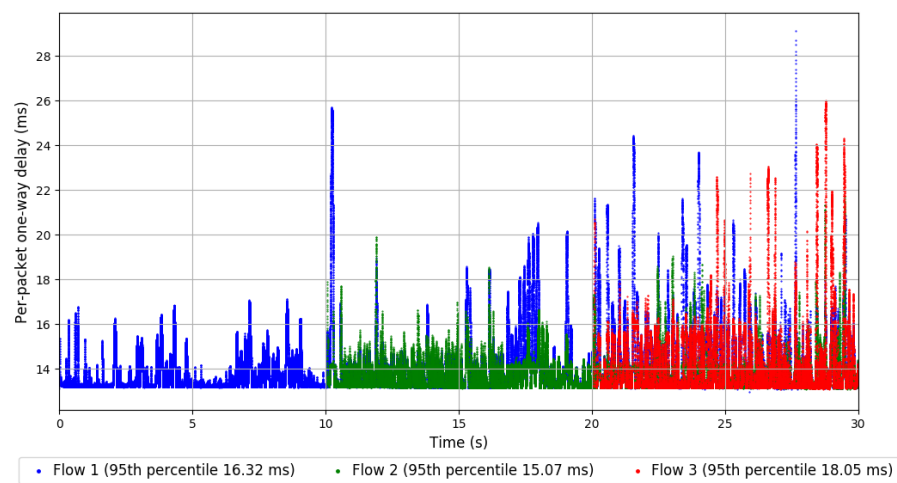
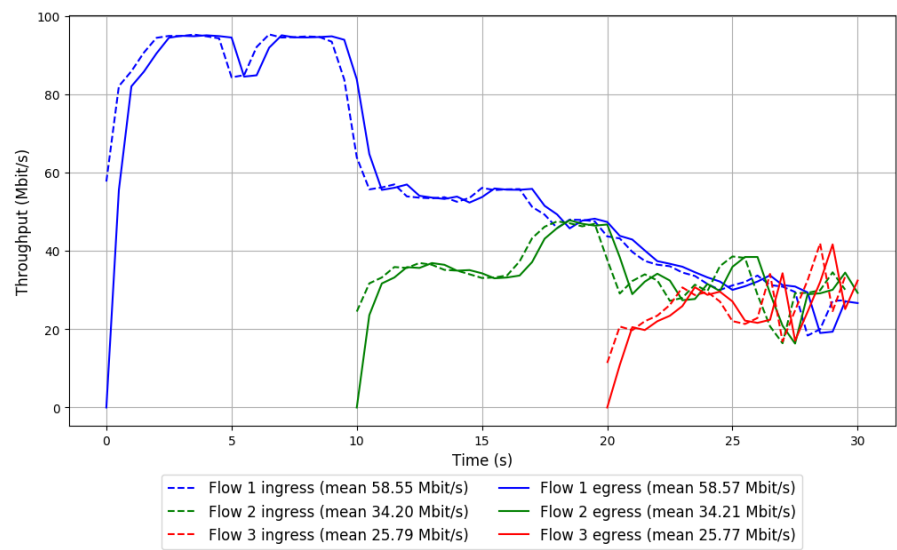
-- Flow 3:

Average throughput: 25.77 Mbit/s

95th percentile per-packet one-way delay: 18.049 ms

Loss rate: 0.39%

Run 8: Report of Copa — Data Link

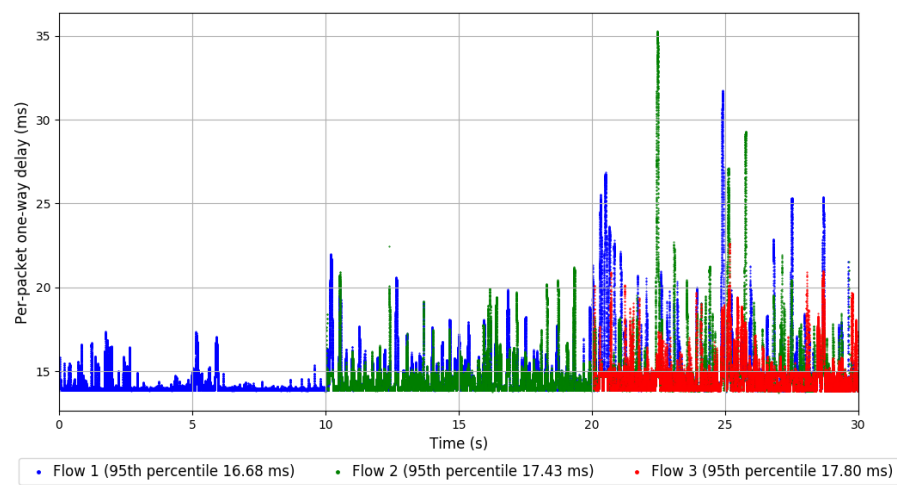
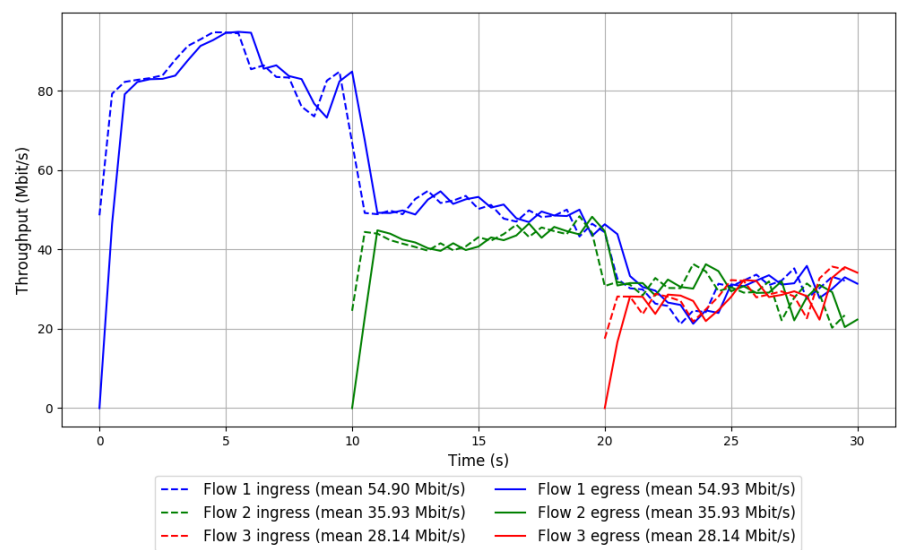


Run 9: Statistics of Copa

Start at: 2018-05-22 18:24:12
End at: 2018-05-22 18:24:42
Local clock offset: 0.752 ms
Remote clock offset: -9.715 ms

Below is generated by plot.py at 2018-05-22 18:51:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.19 Mbit/s
95th percentile per-packet one-way delay: 16.985 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 54.93 Mbit/s
95th percentile per-packet one-way delay: 16.678 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 35.93 Mbit/s
95th percentile per-packet one-way delay: 17.429 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 28.14 Mbit/s
95th percentile per-packet one-way delay: 17.800 ms
Loss rate: 0.35%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

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

End at: 2018-05-22 18:43:48

Local clock offset: -0.322 ms

Remote clock offset: 1.071 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.00 Mbit/s

95th percentile per-packet one-way delay: 15.470 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 55.71 Mbit/s

95th percentile per-packet one-way delay: 15.190 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 34.29 Mbit/s

95th percentile per-packet one-way delay: 16.353 ms

Loss rate: 0.07%

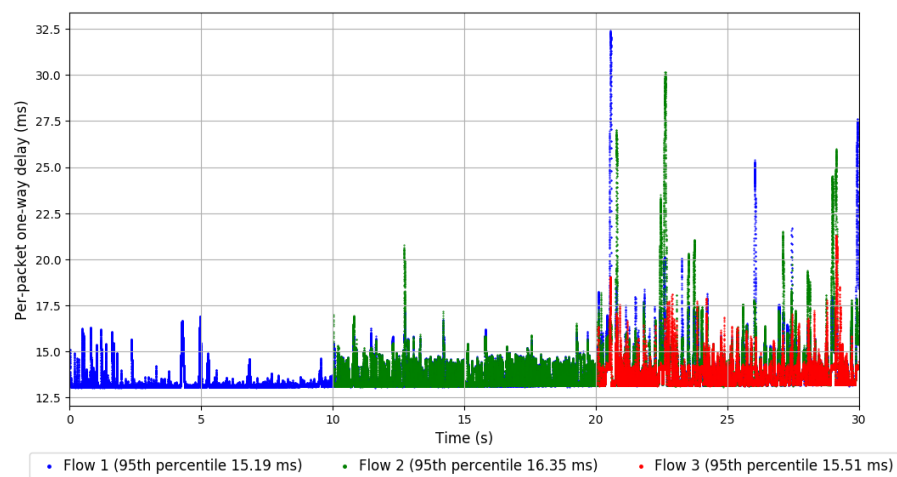
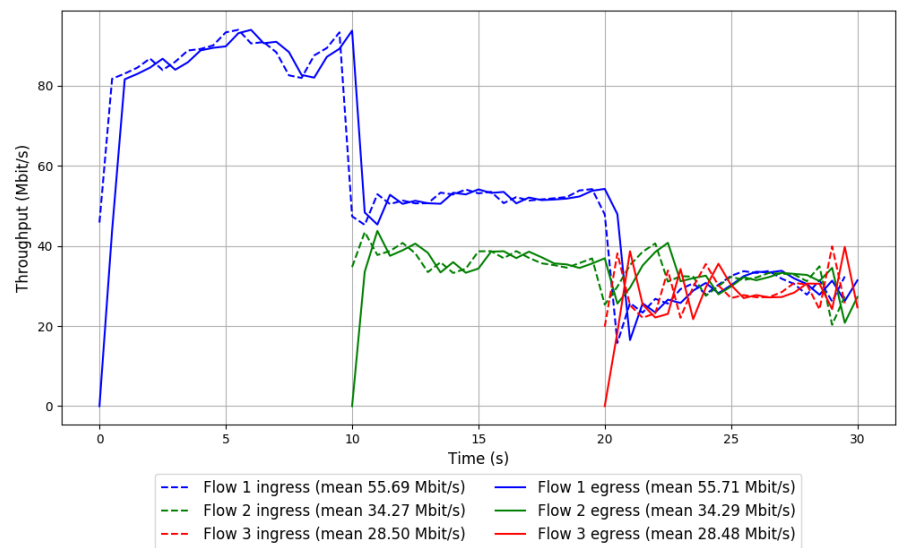
-- Flow 3:

Average throughput: 28.48 Mbit/s

95th percentile per-packet one-way delay: 15.506 ms

Loss rate: 0.33%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-22 15:31:53

End at: 2018-05-22 15:32:23

Local clock offset: 1.566 ms

Remote clock offset: 8.818 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 23.516 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 63.81 Mbit/s

95th percentile per-packet one-way delay: 23.227 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 37.20 Mbit/s

95th percentile per-packet one-way delay: 24.297 ms

Loss rate: 0.14%

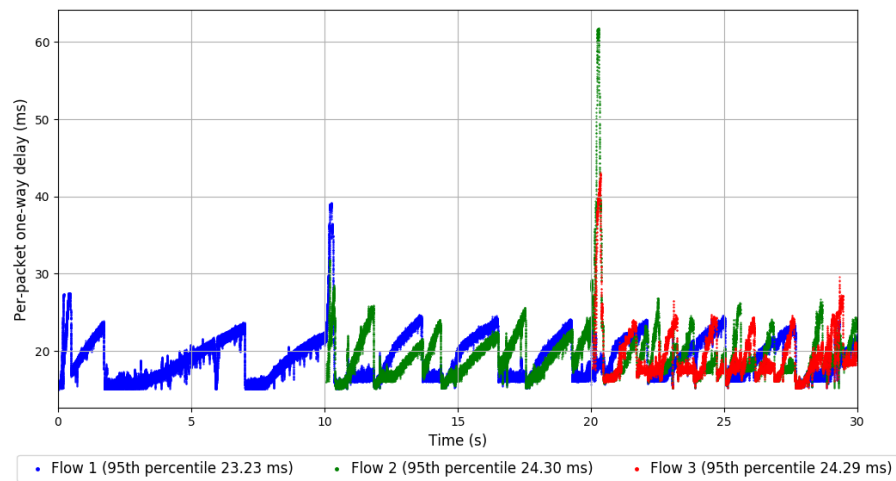
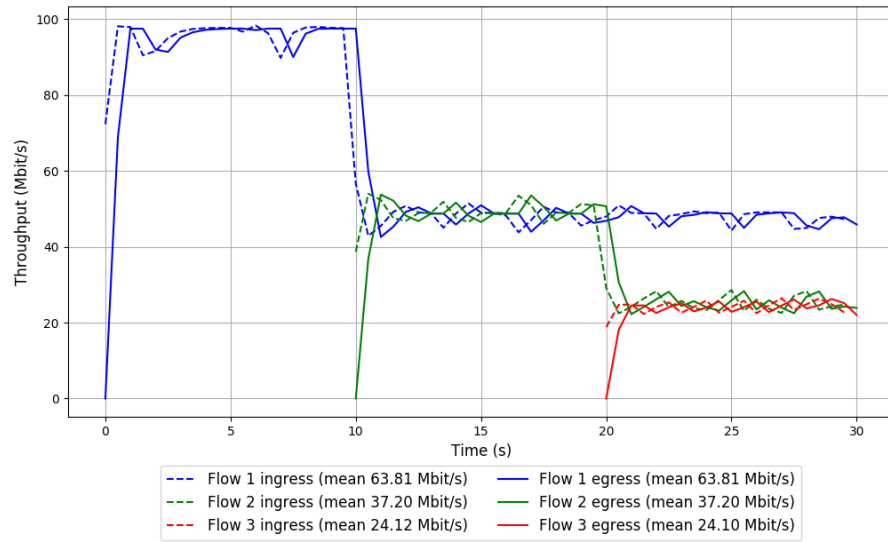
-- Flow 3:

Average throughput: 24.10 Mbit/s

95th percentile per-packet one-way delay: 24.290 ms

Loss rate: 0.36%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-22 15:51:19

End at: 2018-05-22 15:51:49

Local clock offset: 0.795 ms

Remote clock offset: 3.737 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.62 Mbit/s

95th percentile per-packet one-way delay: 21.662 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 55.81 Mbit/s

95th percentile per-packet one-way delay: 21.681 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 47.54 Mbit/s

95th percentile per-packet one-way delay: 21.260 ms

Loss rate: 0.16%

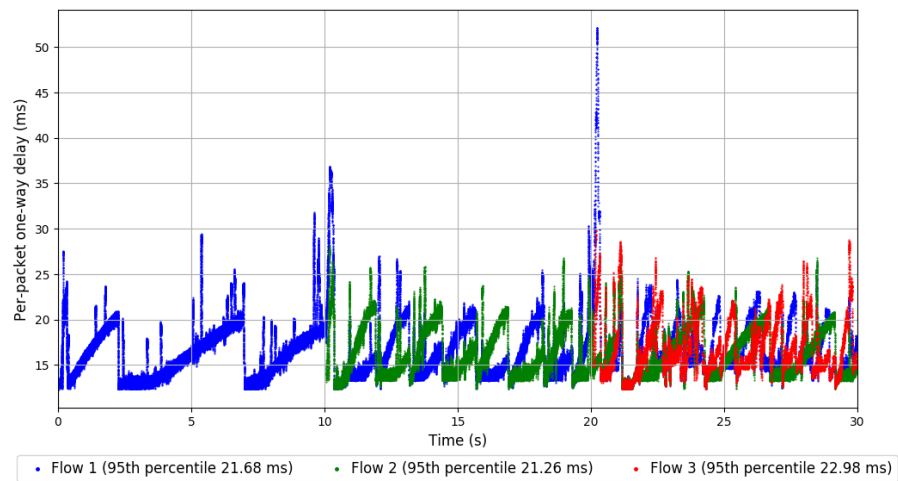
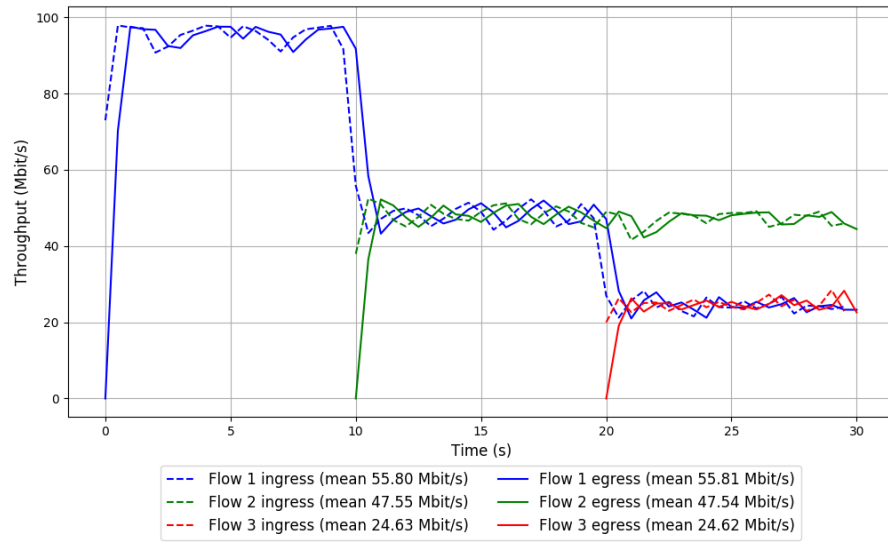
-- Flow 3:

Average throughput: 24.62 Mbit/s

95th percentile per-packet one-way delay: 22.975 ms

Loss rate: 0.31%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-22 16:10:53

End at: 2018-05-22 16:11:23

Local clock offset: 0.44 ms

Remote clock offset: 3.823 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.52 Mbit/s

95th percentile per-packet one-way delay: 31.137 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 61.02 Mbit/s

95th percentile per-packet one-way delay: 31.824 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 36.63 Mbit/s

95th percentile per-packet one-way delay: 29.574 ms

Loss rate: 0.14%

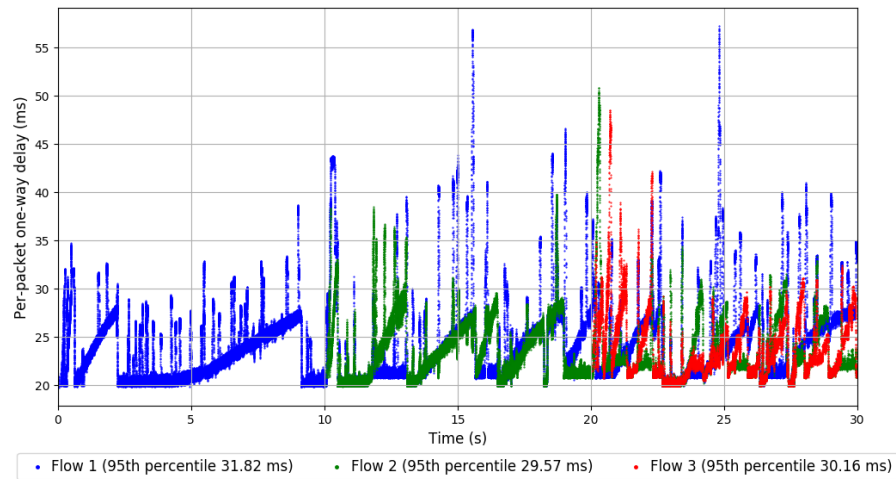
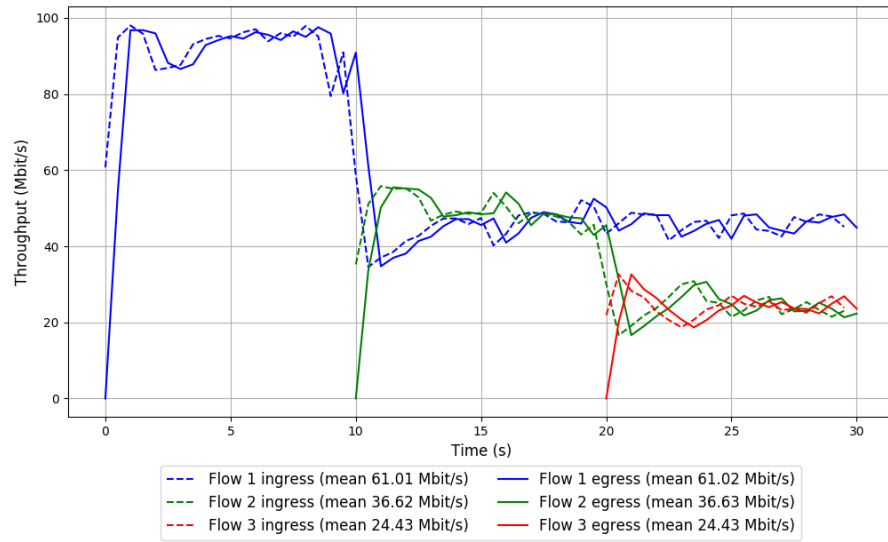
-- Flow 3:

Average throughput: 24.43 Mbit/s

95th percentile per-packet one-way delay: 30.160 ms

Loss rate: 0.34%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-22 16:30:19

End at: 2018-05-22 16:30:49

Local clock offset: -0.815 ms

Remote clock offset: 4.406 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.69 Mbit/s

95th percentile per-packet one-way delay: 23.410 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 57.64 Mbit/s

95th percentile per-packet one-way delay: 23.200 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 40.45 Mbit/s

95th percentile per-packet one-way delay: 23.302 ms

Loss rate: 0.14%

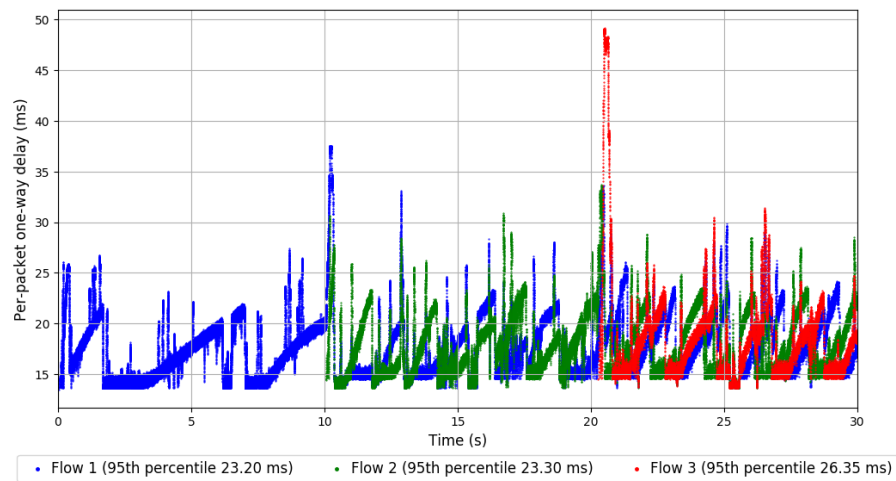
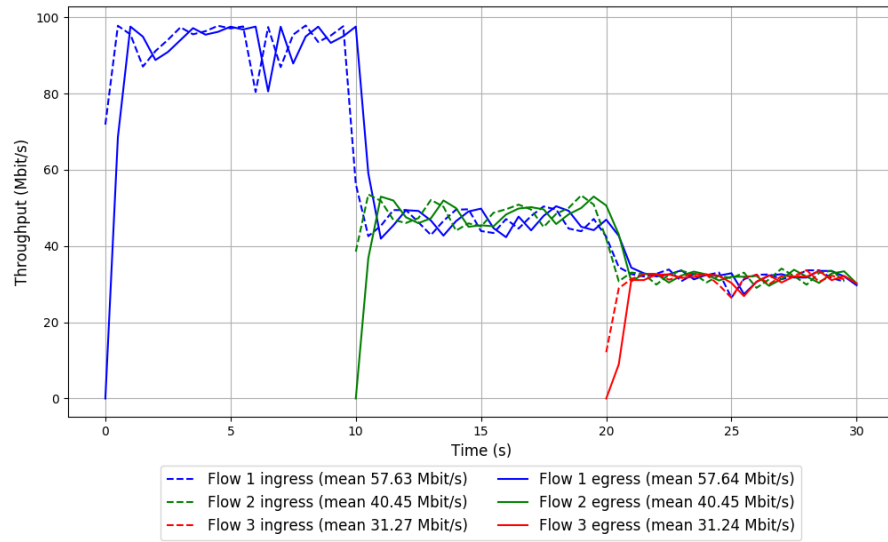
-- Flow 3:

Average throughput: 31.24 Mbit/s

95th percentile per-packet one-way delay: 26.346 ms

Loss rate: 0.39%

Run 4: Report of TCP Cubic — Data Link

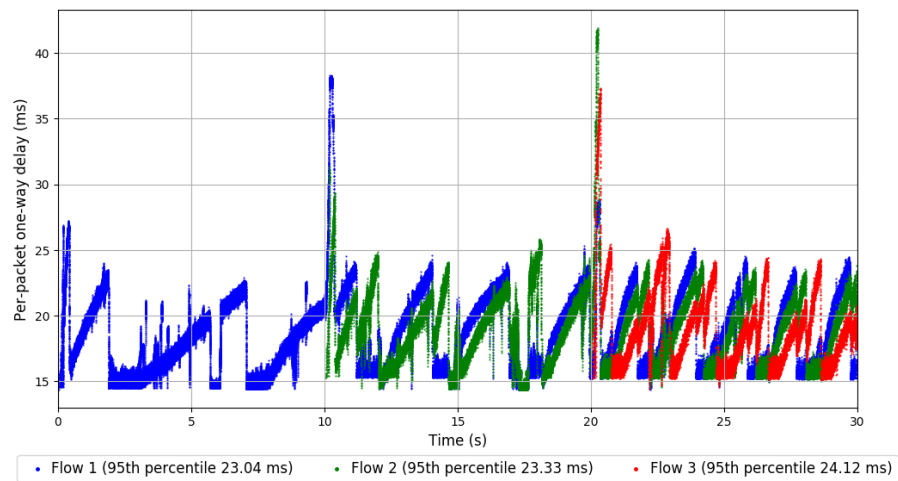
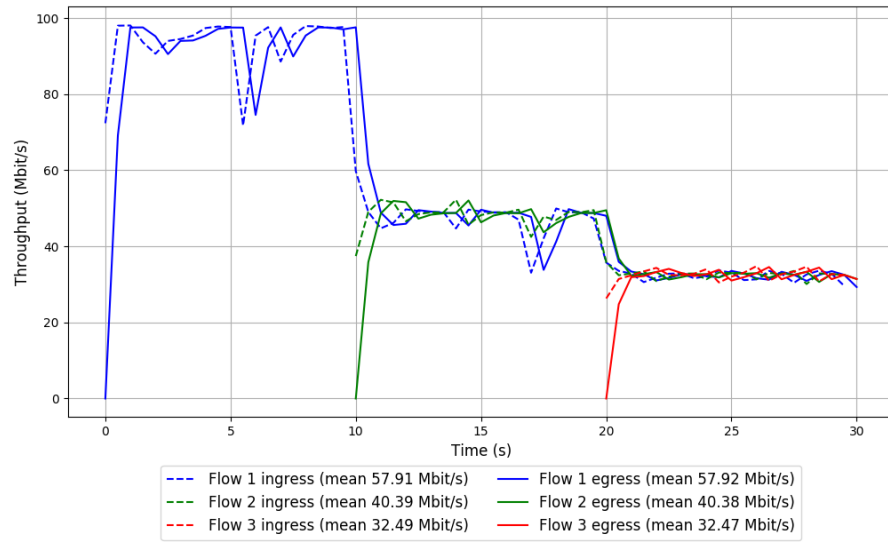


Run 5: Statistics of TCP Cubic

Start at: 2018-05-22 16:50:00
End at: 2018-05-22 16:50:30
Local clock offset: -4.361 ms
Remote clock offset: -3.753 ms

Below is generated by plot.py at 2018-05-22 18:52:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 23.239 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 57.92 Mbit/s
95th percentile per-packet one-way delay: 23.042 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.38 Mbit/s
95th percentile per-packet one-way delay: 23.327 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 32.47 Mbit/s
95th percentile per-packet one-way delay: 24.118 ms
Loss rate: 0.37%

Run 5: Report of TCP Cubic — Data Link

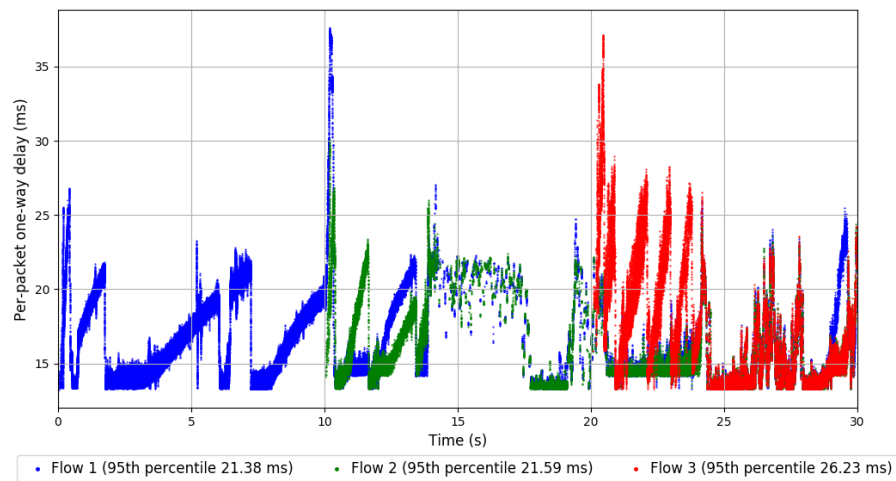
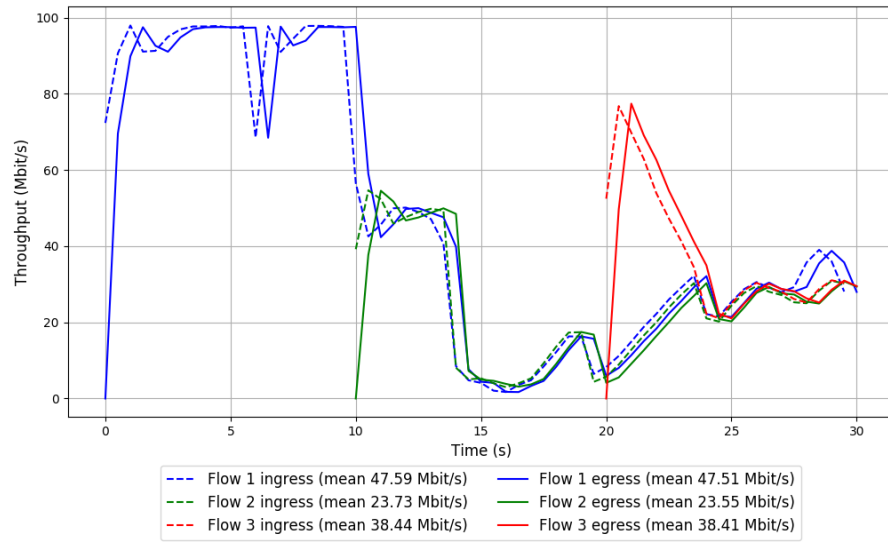


Run 6: Statistics of TCP Cubic

Start at: 2018-05-22 17:10:07
End at: 2018-05-22 17:10:37
Local clock offset: -2.348 ms
Remote clock offset: -4.983 ms

Below is generated by plot.py at 2018-05-22 18:52:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.90 Mbit/s
95th percentile per-packet one-way delay: 22.437 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 47.51 Mbit/s
95th percentile per-packet one-way delay: 21.377 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 23.55 Mbit/s
95th percentile per-packet one-way delay: 21.590 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 38.41 Mbit/s
95th percentile per-packet one-way delay: 26.229 ms
Loss rate: 0.38%

Run 6: Report of TCP Cubic — Data Link

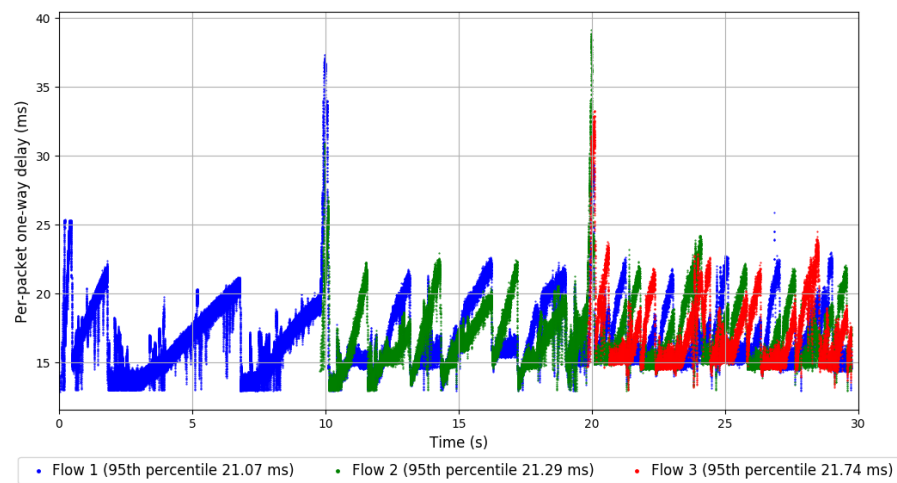
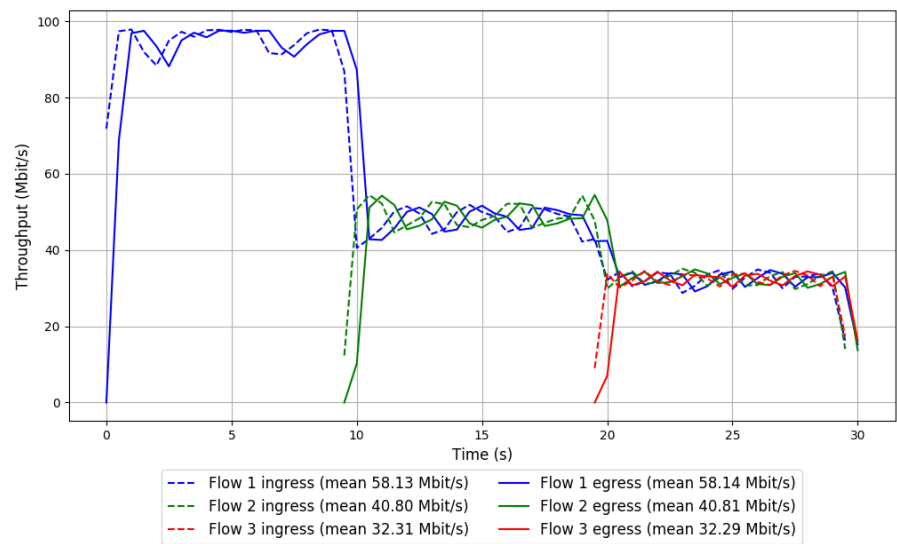


Run 7: Statistics of TCP Cubic

Start at: 2018-05-22 17:29:43
End at: 2018-05-22 17:30:13
Local clock offset: -2.003 ms
Remote clock offset: -3.299 ms

Below is generated by plot.py at 2018-05-22 18:52:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 21.224 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 58.14 Mbit/s
95th percentile per-packet one-way delay: 21.071 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 40.81 Mbit/s
95th percentile per-packet one-way delay: 21.291 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 21.742 ms
Loss rate: 0.37%

Run 7: Report of TCP Cubic — Data Link

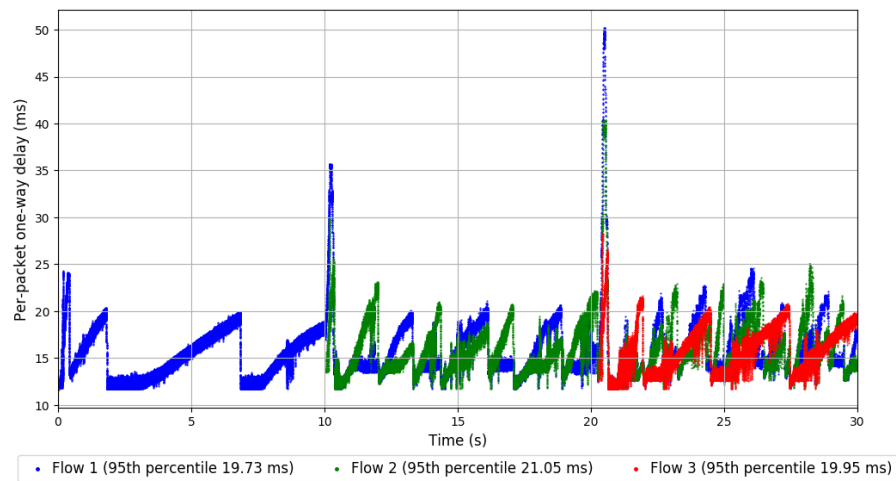
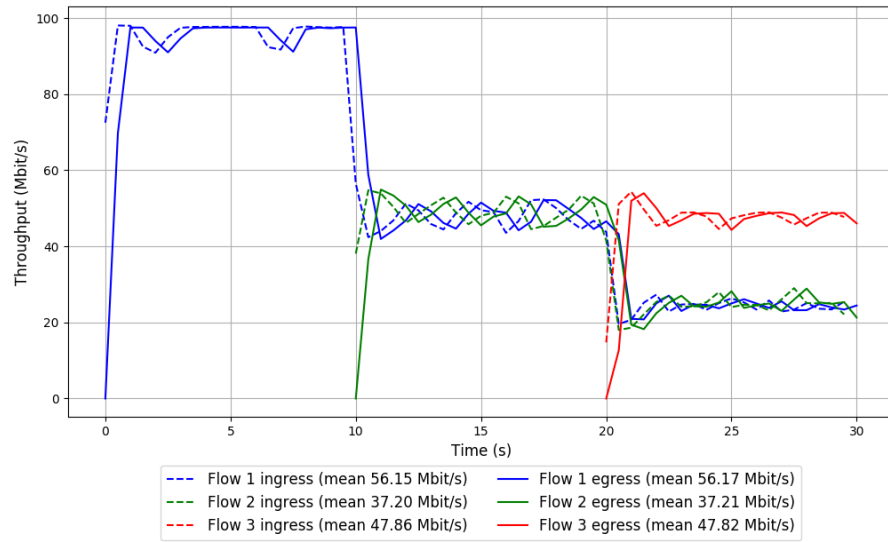


Run 8: Statistics of TCP Cubic

Start at: 2018-05-22 17:48:57
End at: 2018-05-22 17:49:27
Local clock offset: -1.402 ms
Remote clock offset: -3.318 ms

Below is generated by plot.py at 2018-05-22 18:52:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 20.136 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 56.17 Mbit/s
95th percentile per-packet one-way delay: 19.725 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 21.050 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 47.82 Mbit/s
95th percentile per-packet one-way delay: 19.948 ms
Loss rate: 0.38%

Run 8: Report of TCP Cubic — Data Link

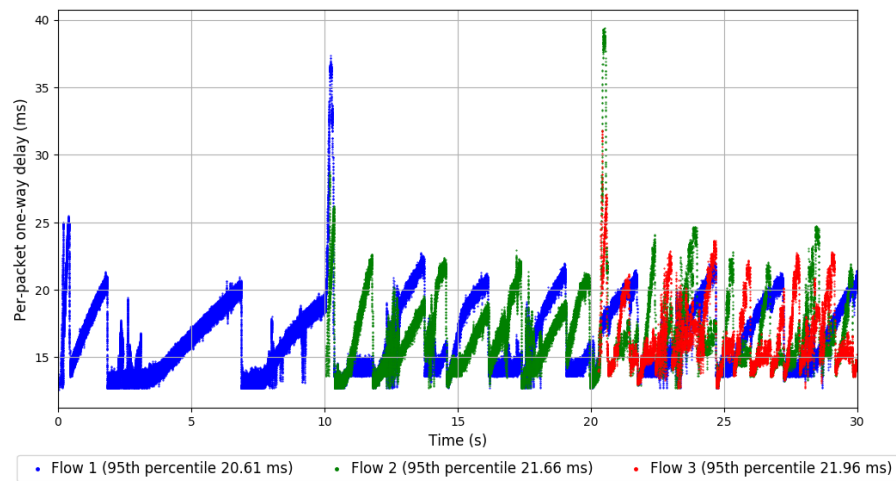
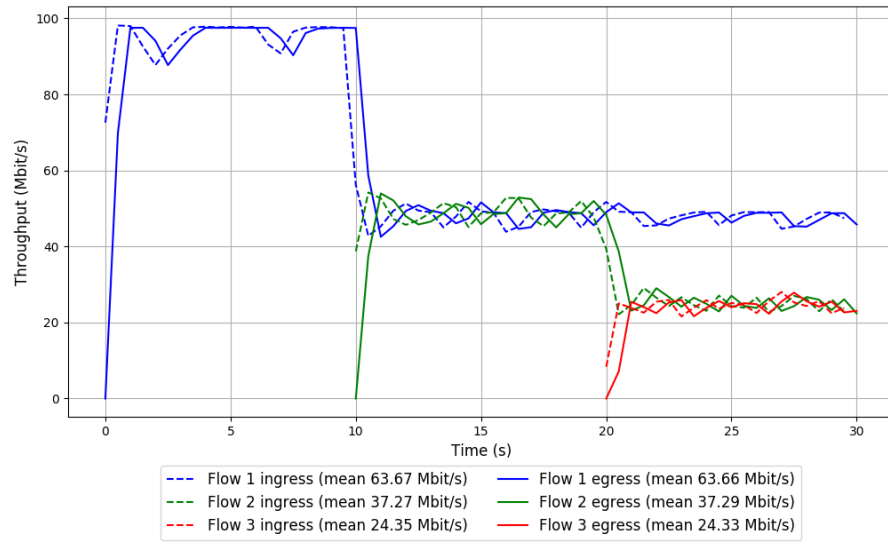


Run 9: Statistics of TCP Cubic

Start at: 2018-05-22 18:08:25
End at: 2018-05-22 18:08:55
Local clock offset: -0.303 ms
Remote clock offset: -7.897 ms

Below is generated by plot.py at 2018-05-22 18:52:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.37 Mbit/s
95th percentile per-packet one-way delay: 21.044 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 63.66 Mbit/s
95th percentile per-packet one-way delay: 20.606 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 37.29 Mbit/s
95th percentile per-packet one-way delay: 21.655 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 21.959 ms
Loss rate: 0.36%

Run 9: Report of TCP Cubic — Data Link

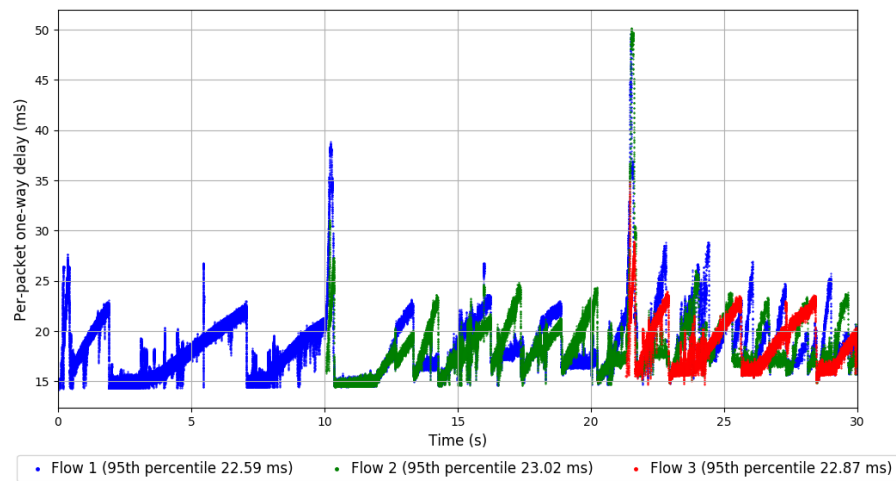
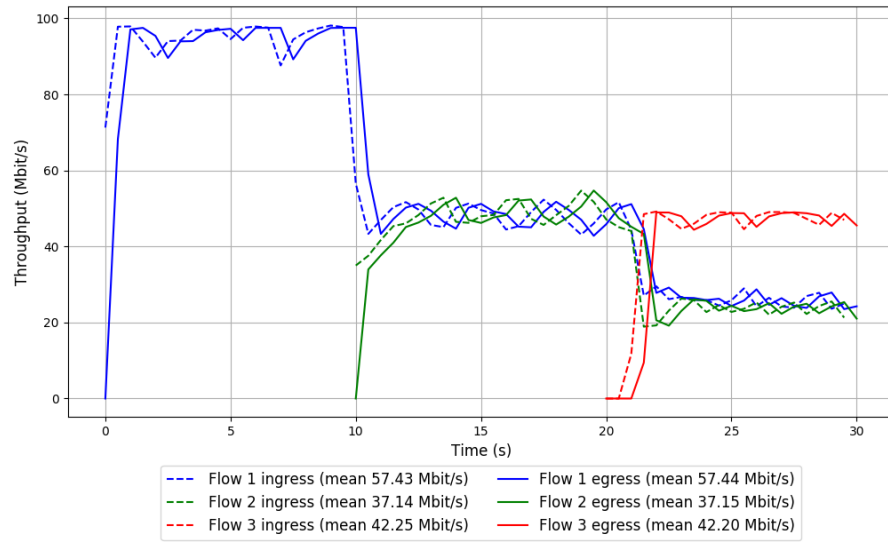


Run 10: Statistics of TCP Cubic

Start at: 2018-05-22 18:27:46
End at: 2018-05-22 18:28:16
Local clock offset: 0.069 ms
Remote clock offset: -8.398 ms

Below is generated by plot.py at 2018-05-22 18:52:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 22.792 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 57.44 Mbit/s
95th percentile per-packet one-way delay: 22.594 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 37.15 Mbit/s
95th percentile per-packet one-way delay: 23.022 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 42.20 Mbit/s
95th percentile per-packet one-way delay: 22.867 ms
Loss rate: 0.40%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-22 15:36:59

End at: 2018-05-22 15:37:29

Local clock offset: 0.483 ms

Remote clock offset: 6.982 ms

Below is generated by plot.py at 2018-05-22 18:53:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.26 Mbit/s

95th percentile per-packet one-way delay: 43.709 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 56.66 Mbit/s

95th percentile per-packet one-way delay: 42.876 ms

Loss rate: 1.51%

-- Flow 2:

Average throughput: 39.60 Mbit/s

95th percentile per-packet one-way delay: 44.008 ms

Loss rate: 3.26%

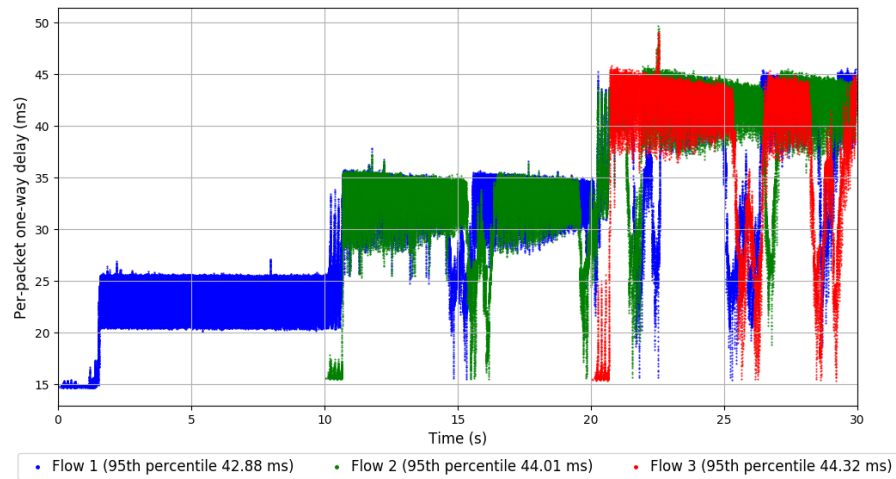
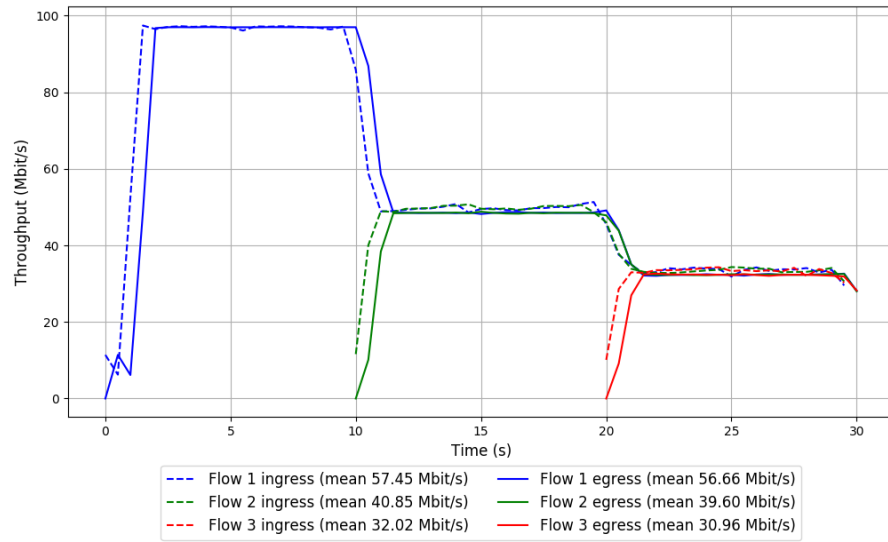
-- Flow 3:

Average throughput: 30.96 Mbit/s

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

Loss rate: 3.75%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-22 15:56:28

End at: 2018-05-22 15:56:58

Local clock offset: -0.175 ms

Remote clock offset: 3.774 ms

Below is generated by plot.py at 2018-05-22 18:53:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 40.395 ms

Loss rate: 2.78%

-- Flow 1:

Average throughput: 55.82 Mbit/s

95th percentile per-packet one-way delay: 39.802 ms

Loss rate: 1.90%

-- Flow 2:

Average throughput: 38.60 Mbit/s

95th percentile per-packet one-way delay: 40.715 ms

Loss rate: 4.11%

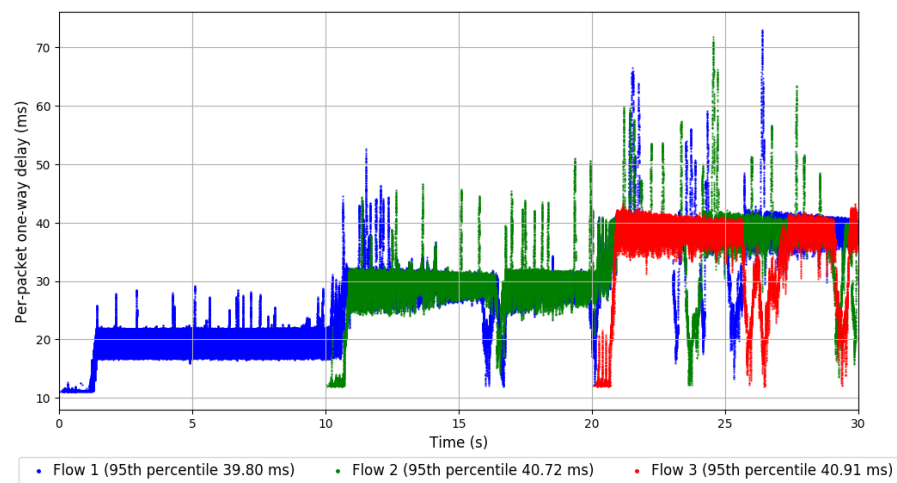
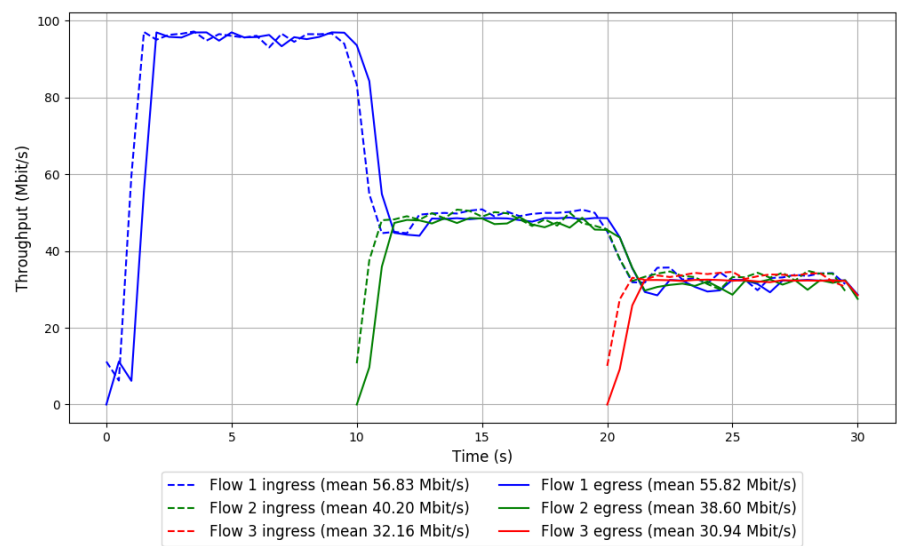
-- Flow 3:

Average throughput: 30.94 Mbit/s

95th percentile per-packet one-way delay: 40.908 ms

Loss rate: 4.15%

Run 2: Report of FillP — Data Link

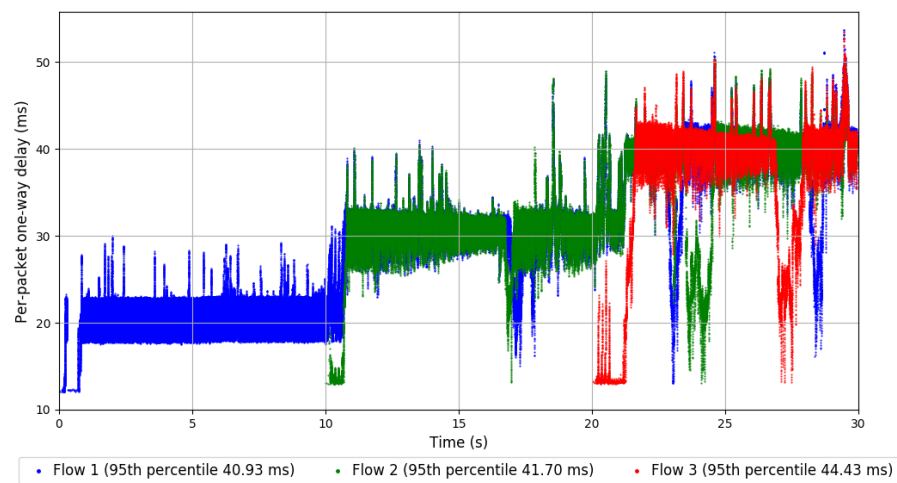
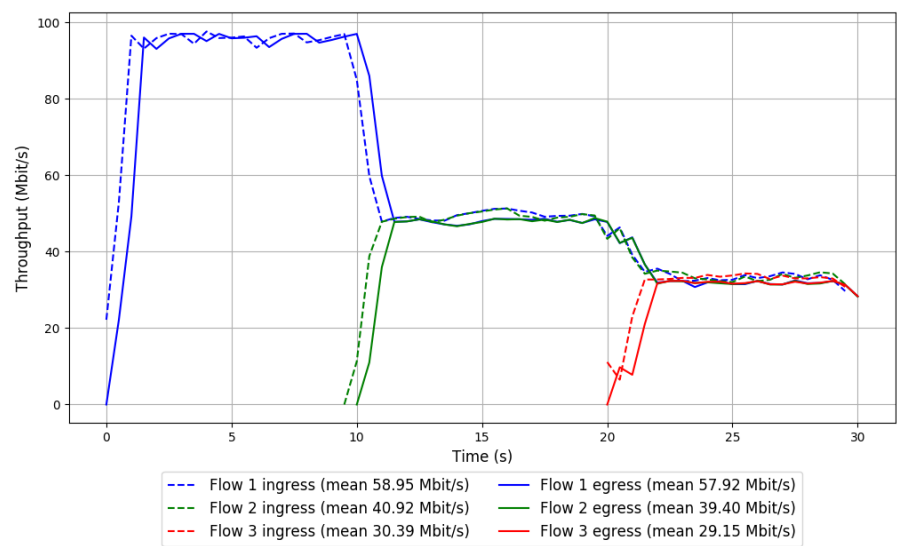


Run 3: Statistics of FillP

Start at: 2018-05-22 16:15:51
End at: 2018-05-22 16:16:21
Local clock offset: -1.277 ms
Remote clock offset: 2.657 ms

Below is generated by plot.py at 2018-05-22 18:53:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 41.713 ms
Loss rate: 2.71%
-- Flow 1:
Average throughput: 57.92 Mbit/s
95th percentile per-packet one-way delay: 40.929 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 39.40 Mbit/s
95th percentile per-packet one-way delay: 41.699 ms
Loss rate: 3.89%
-- Flow 3:
Average throughput: 29.15 Mbit/s
95th percentile per-packet one-way delay: 44.426 ms
Loss rate: 4.50%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-22 16:35:25

End at: 2018-05-22 16:35:55

Local clock offset: -0.757 ms

Remote clock offset: 4.139 ms

Below is generated by plot.py at 2018-05-22 18:53:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.85 Mbit/s

95th percentile per-packet one-way delay: 43.491 ms

Loss rate: 2.68%

-- Flow 1:

Average throughput: 55.71 Mbit/s

95th percentile per-packet one-way delay: 42.833 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 39.37 Mbit/s

95th percentile per-packet one-way delay: 43.292 ms

Loss rate: 3.78%

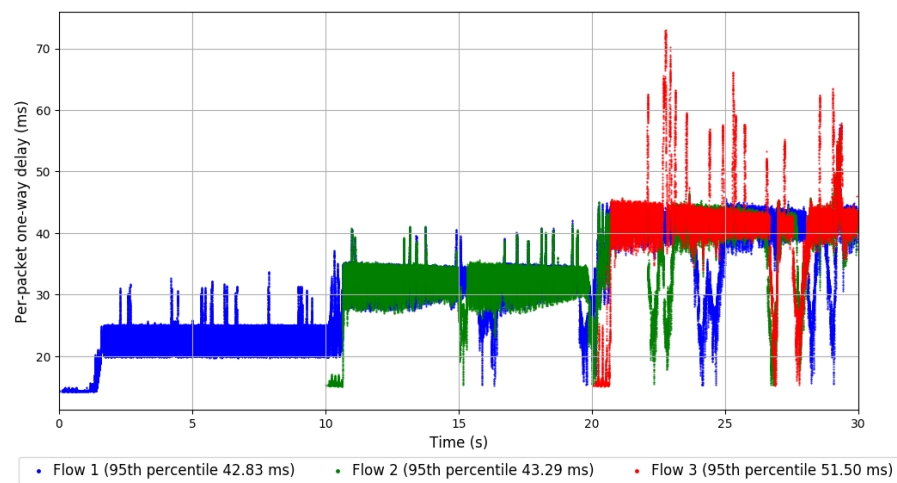
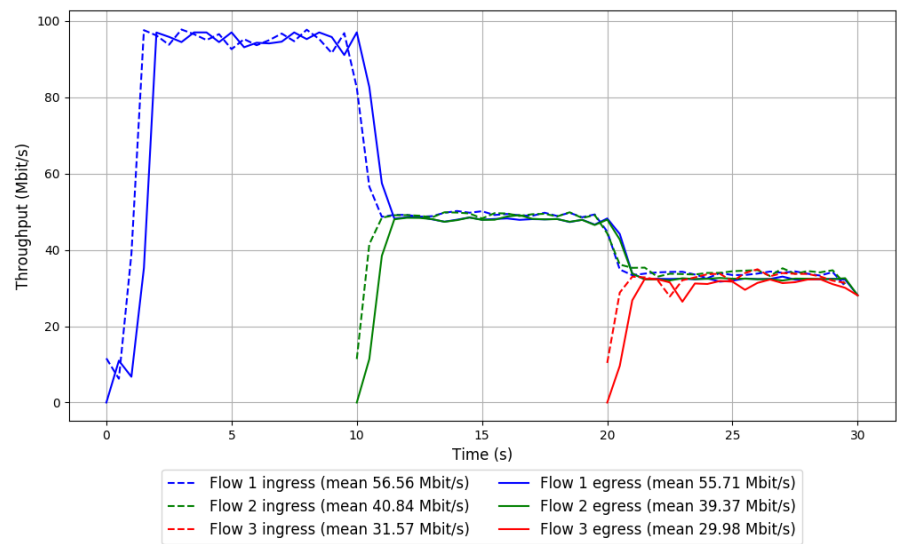
-- Flow 3:

Average throughput: 29.98 Mbit/s

95th percentile per-packet one-way delay: 51.497 ms

Loss rate: 5.41%

Run 4: Report of FillP — Data Link

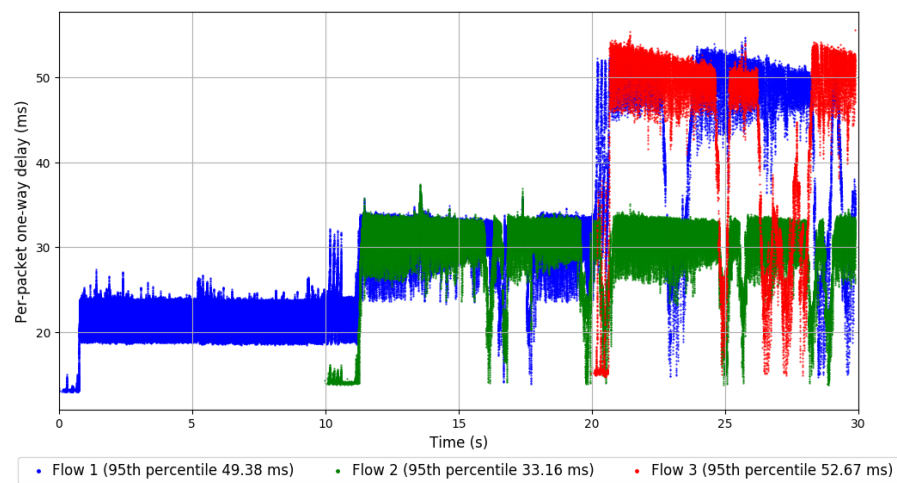
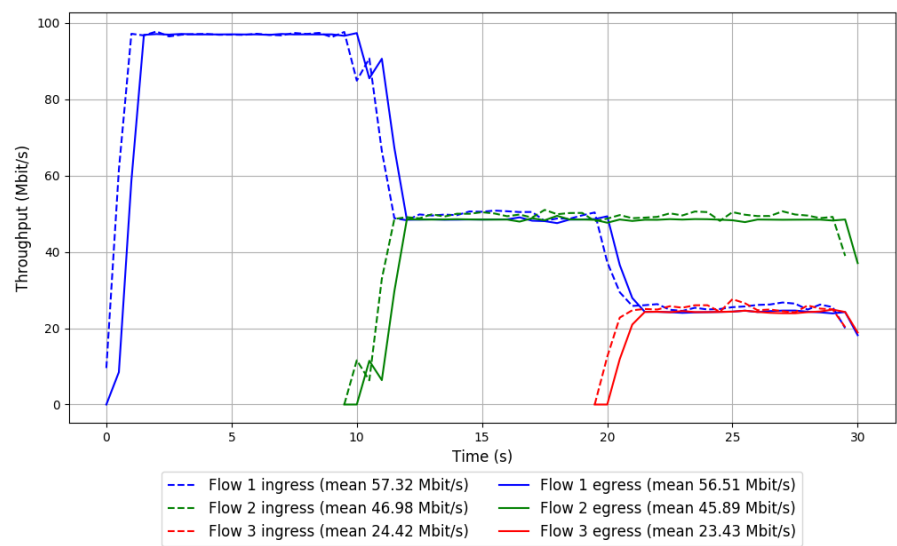


Run 5: Statistics of FillP

Start at: 2018-05-22 16:55:12
End at: 2018-05-22 16:55:42
Local clock offset: -2.434 ms
Remote clock offset: -2.351 ms

Below is generated by plot.py at 2018-05-22 18:53:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.86 Mbit/s
95th percentile per-packet one-way delay: 50.067 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 56.51 Mbit/s
95th percentile per-packet one-way delay: 49.375 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 45.89 Mbit/s
95th percentile per-packet one-way delay: 33.157 ms
Loss rate: 2.47%
-- Flow 3:
Average throughput: 23.43 Mbit/s
95th percentile per-packet one-way delay: 52.674 ms
Loss rate: 4.44%

Run 5: Report of FillP — Data Link

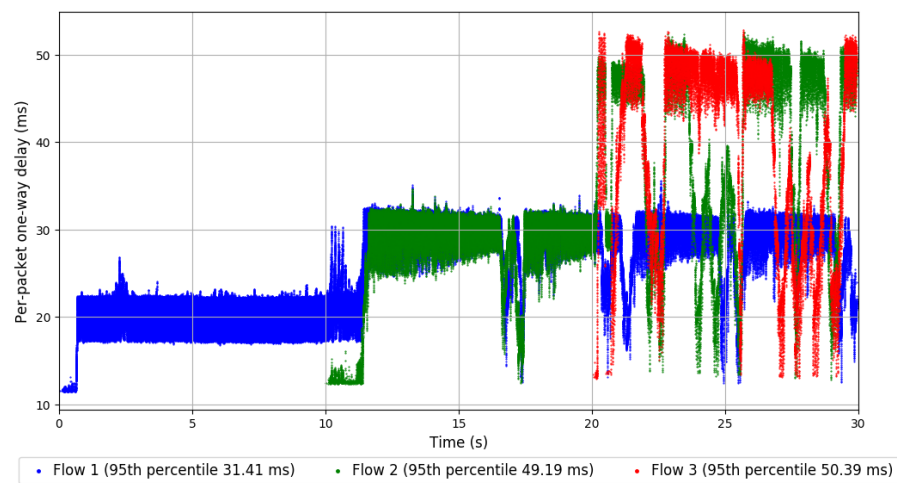
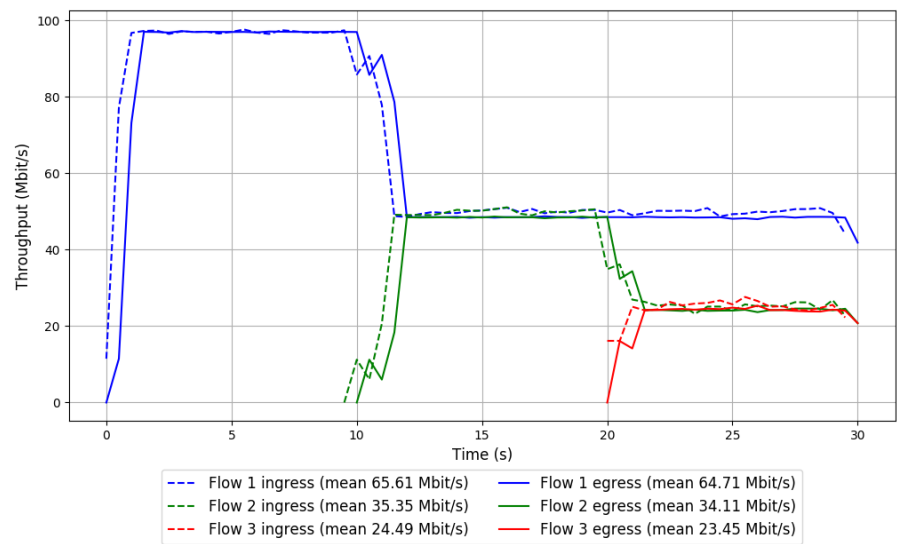


Run 6: Statistics of FillP

Start at: 2018-05-22 17:15:19
End at: 2018-05-22 17:15:49
Local clock offset: -4.283 ms
Remote clock offset: -5.803 ms

Below is generated by plot.py at 2018-05-22 18:54:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 47.823 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 64.71 Mbit/s
95th percentile per-packet one-way delay: 31.408 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 34.11 Mbit/s
95th percentile per-packet one-way delay: 49.188 ms
Loss rate: 3.73%
-- Flow 3:
Average throughput: 23.45 Mbit/s
95th percentile per-packet one-way delay: 50.386 ms
Loss rate: 4.67%

Run 6: Report of FillP — Data Link

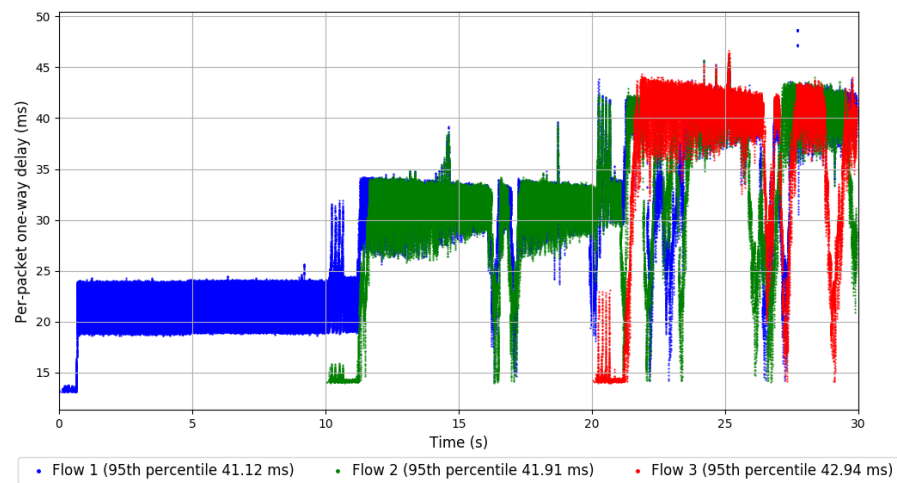
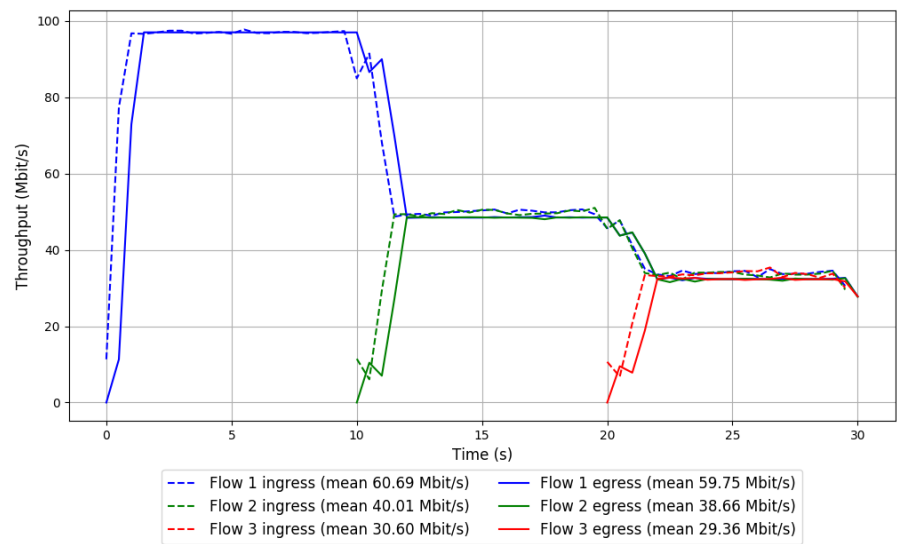


Run 7: Statistics of FillP

Start at: 2018-05-22 17:34:44
End at: 2018-05-22 17:35:14
Local clock offset: -0.597 ms
Remote clock offset: -2.819 ms

Below is generated by plot.py at 2018-05-22 18:54:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 41.904 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 59.75 Mbit/s
95th percentile per-packet one-way delay: 41.117 ms
Loss rate: 1.69%
-- Flow 2:
Average throughput: 38.66 Mbit/s
95th percentile per-packet one-way delay: 41.908 ms
Loss rate: 3.52%
-- Flow 3:
Average throughput: 29.36 Mbit/s
95th percentile per-packet one-way delay: 42.944 ms
Loss rate: 4.33%

Run 7: Report of FillP — Data Link

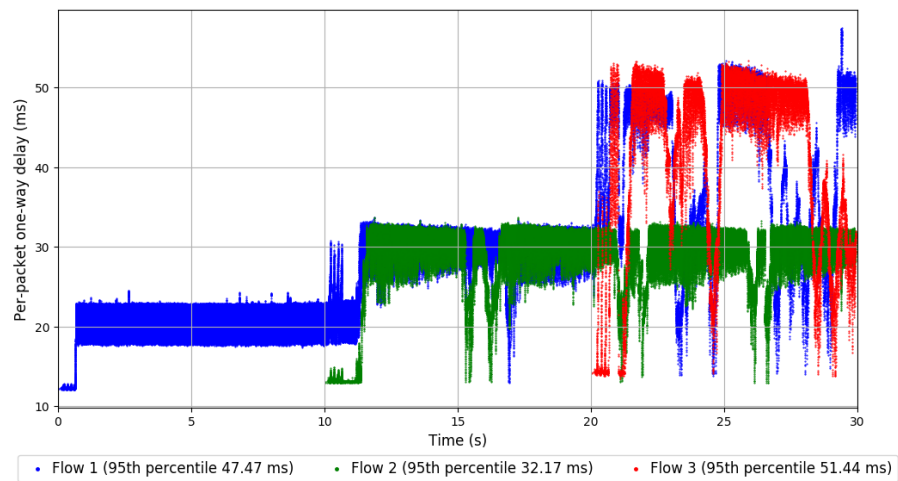
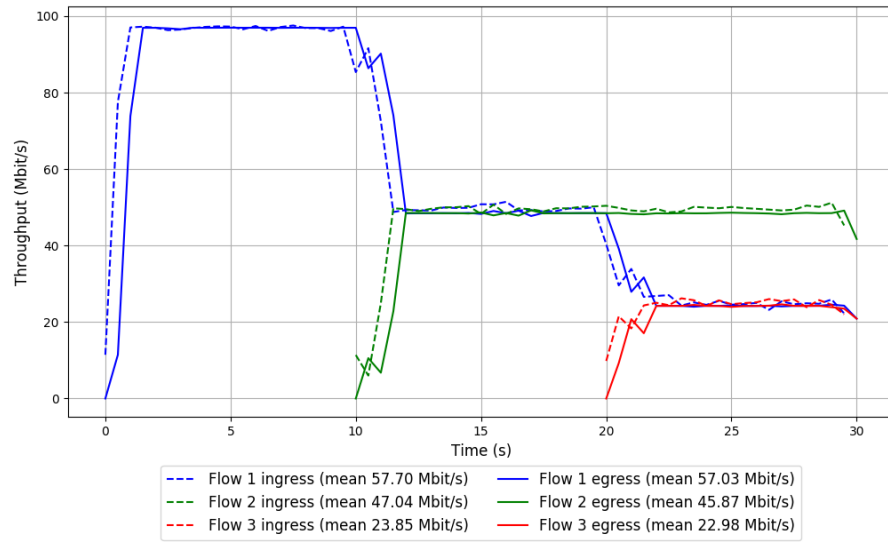


Run 8: Statistics of FillP

Start at: 2018-05-22 17:54:01
End at: 2018-05-22 17:54:31
Local clock offset: 0.092 ms
Remote clock offset: -3.906 ms

Below is generated by plot.py at 2018-05-22 18:54:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 48.459 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 57.03 Mbit/s
95th percentile per-packet one-way delay: 47.470 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 45.87 Mbit/s
95th percentile per-packet one-way delay: 32.168 ms
Loss rate: 2.62%
-- Flow 3:
Average throughput: 22.98 Mbit/s
95th percentile per-packet one-way delay: 51.437 ms
Loss rate: 3.93%

Run 8: Report of FillP — Data Link

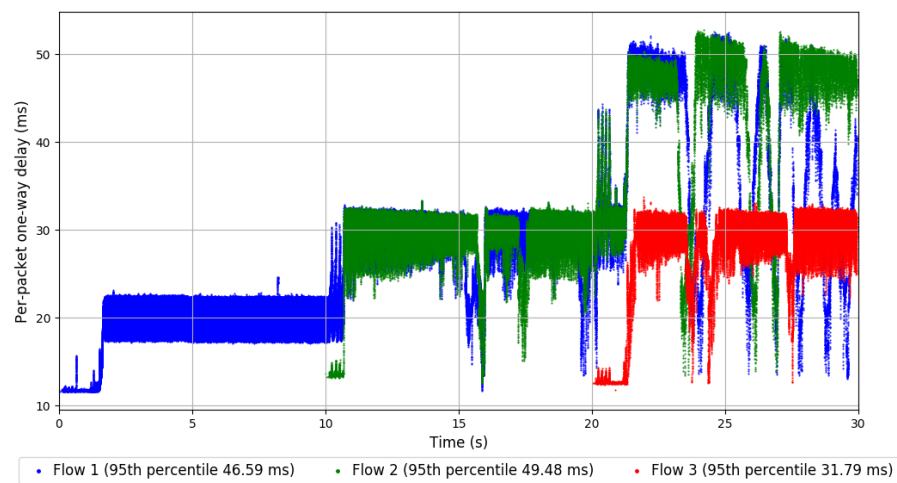
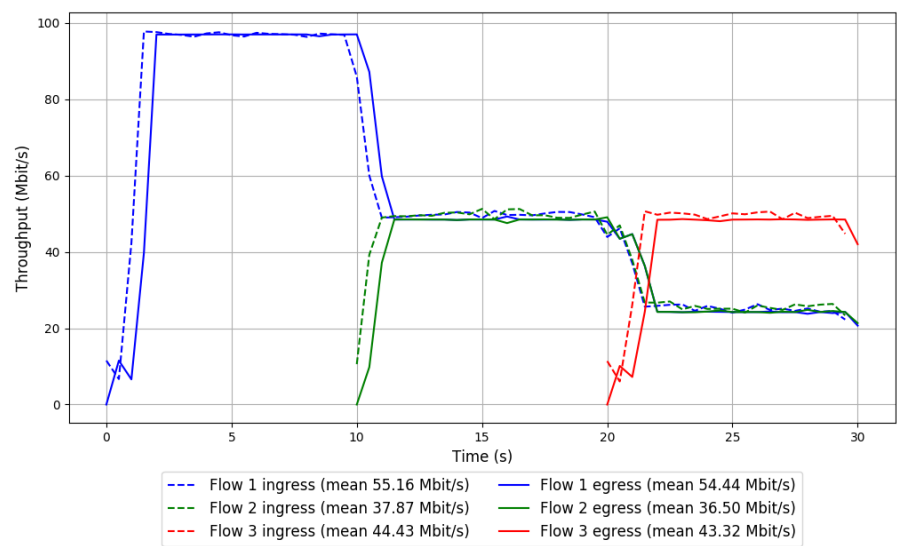


Run 9: Statistics of FillP

Start at: 2018-05-22 18:13:20
End at: 2018-05-22 18:13:50
Local clock offset: -1.867 ms
Remote clock offset: -9.025 ms

Below is generated by plot.py at 2018-05-22 18:54:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.08 Mbit/s
95th percentile per-packet one-way delay: 48.200 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 54.44 Mbit/s
95th percentile per-packet one-way delay: 46.589 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 36.50 Mbit/s
95th percentile per-packet one-way delay: 49.482 ms
Loss rate: 3.75%
-- Flow 3:
Average throughput: 43.32 Mbit/s
95th percentile per-packet one-way delay: 31.785 ms
Loss rate: 2.85%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-22 18:32:38

End at: 2018-05-22 18:33:08

Local clock offset: 0.618 ms

Remote clock offset: -3.95 ms

Below is generated by plot.py at 2018-05-22 18:54:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.30 Mbit/s

95th percentile per-packet one-way delay: 51.326 ms

Loss rate: 2.35%

-- Flow 1:

Average throughput: 54.63 Mbit/s

95th percentile per-packet one-way delay: 51.210 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 36.51 Mbit/s

95th percentile per-packet one-way delay: 52.199 ms

Loss rate: 3.50%

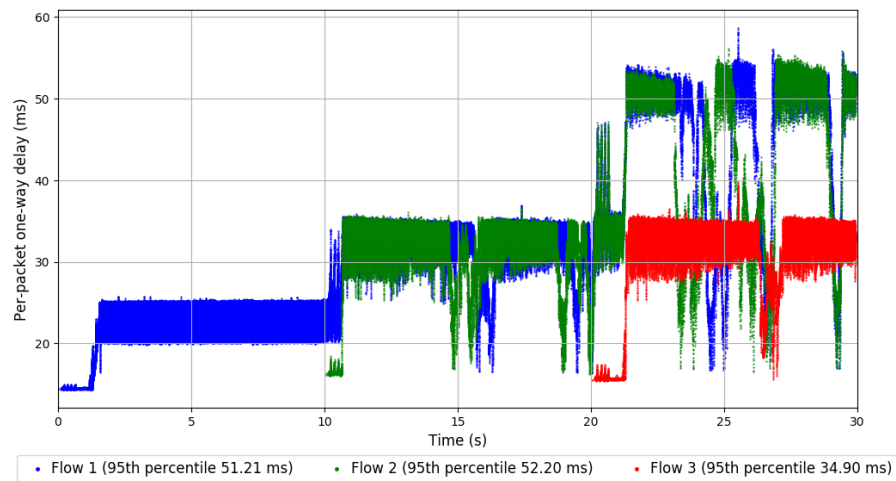
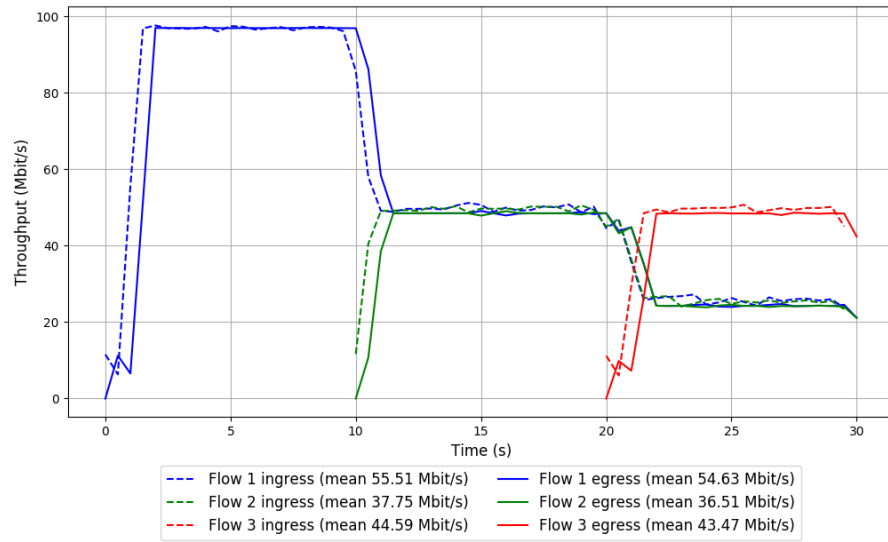
-- Flow 3:

Average throughput: 43.47 Mbit/s

95th percentile per-packet one-way delay: 34.899 ms

Loss rate: 2.77%

Run 10: Report of FillP — Data Link

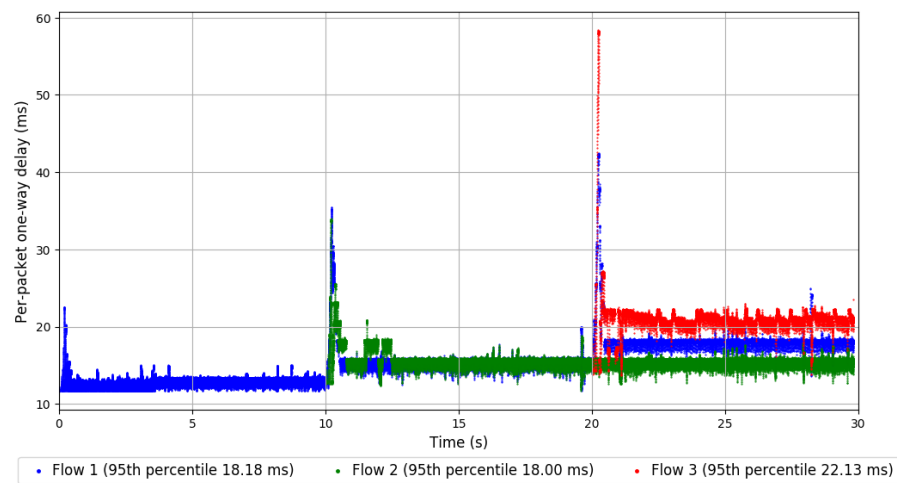
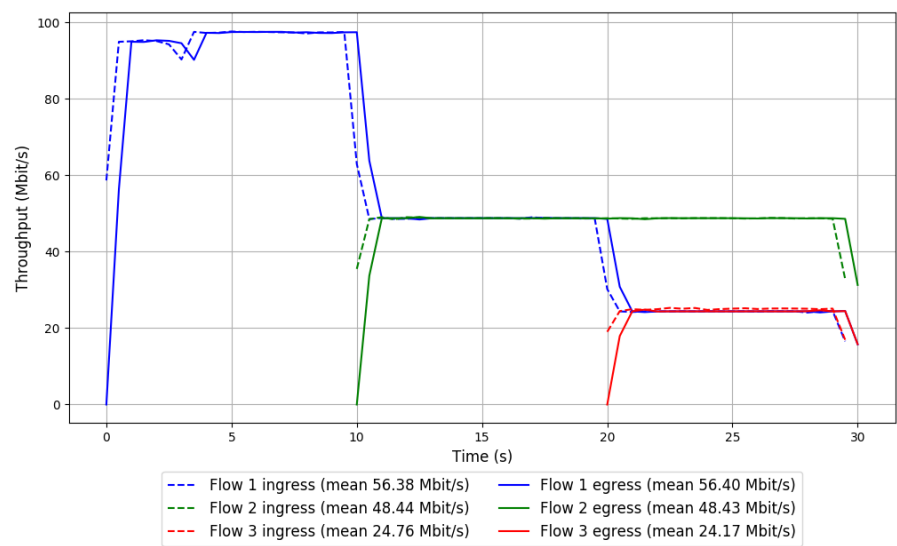


```
Run 1: Statistics of Indigo

Start at: 2018-05-22 15:33:08
End at: 2018-05-22 15:33:38
Local clock offset: -2.65 ms
Remote clock offset: 8.284 ms

# Below is generated by plot.py at 2018-05-22 18:54:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 20.952 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 56.40 Mbit/s
95th percentile per-packet one-way delay: 18.184 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 48.43 Mbit/s
95th percentile per-packet one-way delay: 17.998 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 22.131 ms
Loss rate: 2.65%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-22 15:52:34

End at: 2018-05-22 15:53:04

Local clock offset: -0.537 ms

Remote clock offset: 3.608 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 19.118 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 57.15 Mbit/s

95th percentile per-packet one-way delay: 18.037 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 47.76 Mbit/s

95th percentile per-packet one-way delay: 19.773 ms

Loss rate: 0.16%

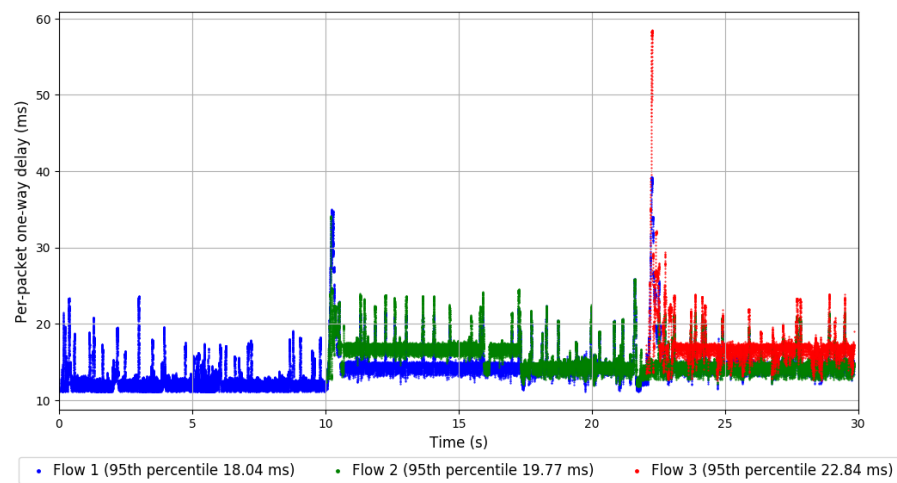
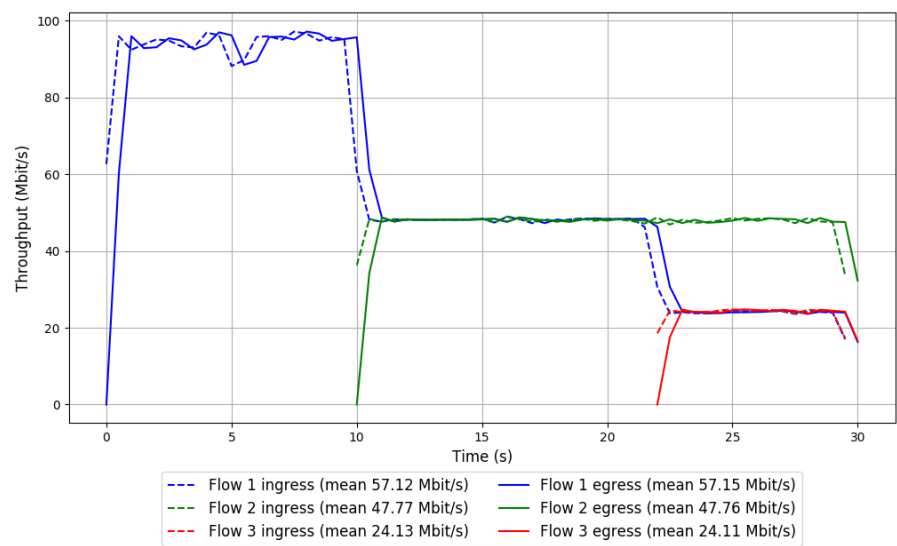
-- Flow 3:

Average throughput: 24.11 Mbit/s

95th percentile per-packet one-way delay: 22.843 ms

Loss rate: 0.41%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

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

End at: 2018-05-22 16:12:34

Local clock offset: 0.424 ms

Remote clock offset: 2.055 ms

Below is generated by plot.py at 2018-05-22 18:55:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 22.765 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 57.93 Mbit/s

95th percentile per-packet one-way delay: 21.642 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.36 Mbit/s

95th percentile per-packet one-way delay: 23.511 ms

Loss rate: 0.12%

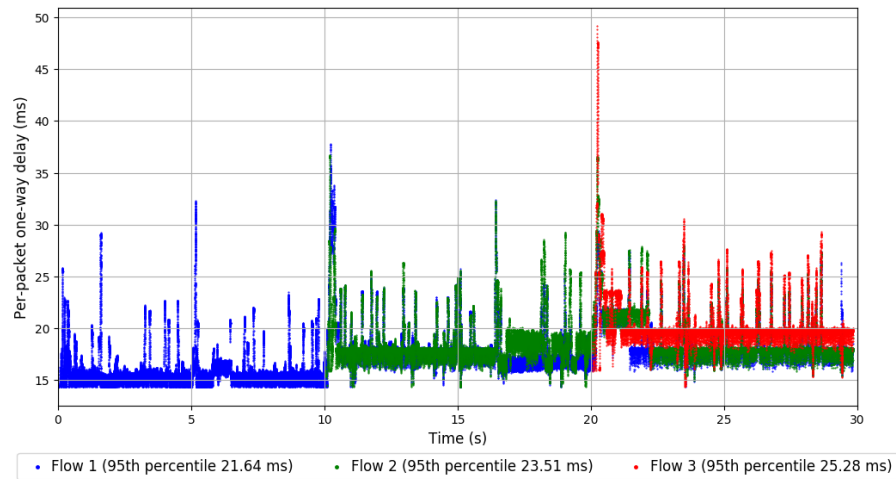
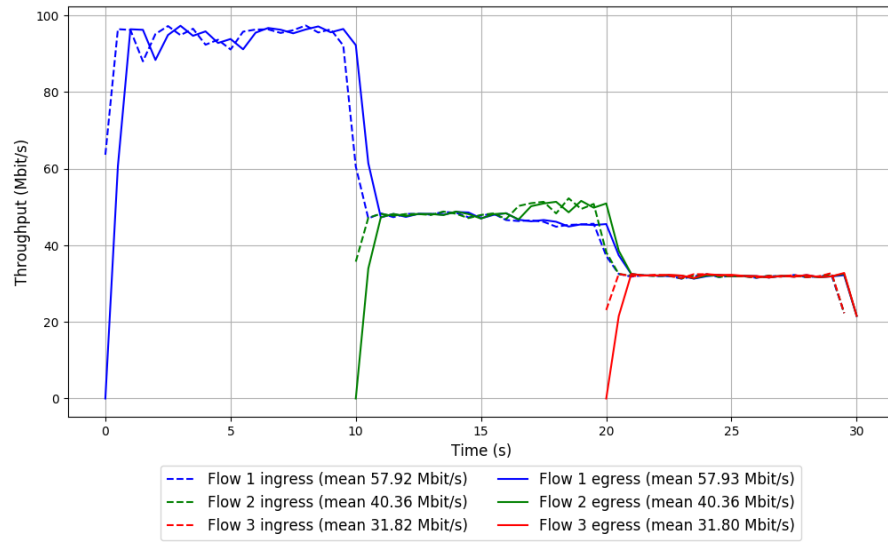
-- Flow 3:

Average throughput: 31.80 Mbit/s

95th percentile per-packet one-way delay: 25.281 ms

Loss rate: 0.34%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-22 16:31:39

End at: 2018-05-22 16:32:09

Local clock offset: -1.123 ms

Remote clock offset: 3.887 ms

Below is generated by plot.py at 2018-05-22 18:55:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.46 Mbit/s

95th percentile per-packet one-way delay: 22.549 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 55.87 Mbit/s

95th percentile per-packet one-way delay: 21.964 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 34.03 Mbit/s

95th percentile per-packet one-way delay: 22.776 ms

Loss rate: 0.05%

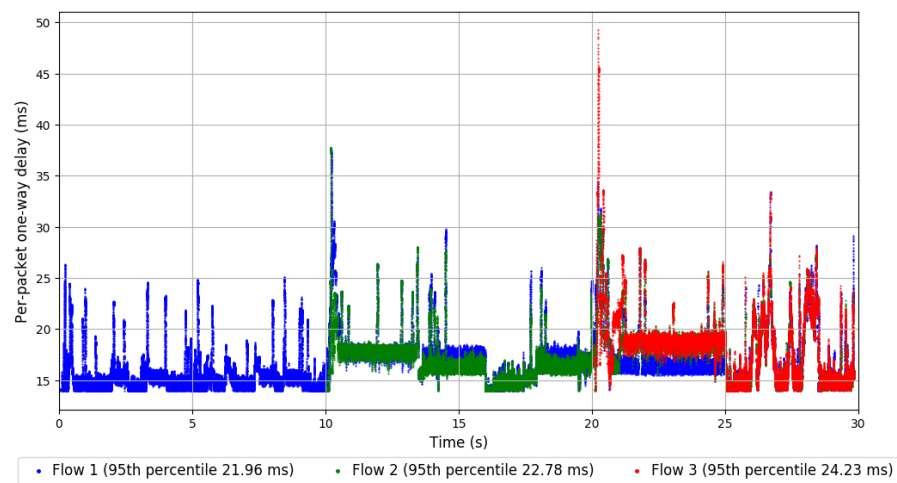
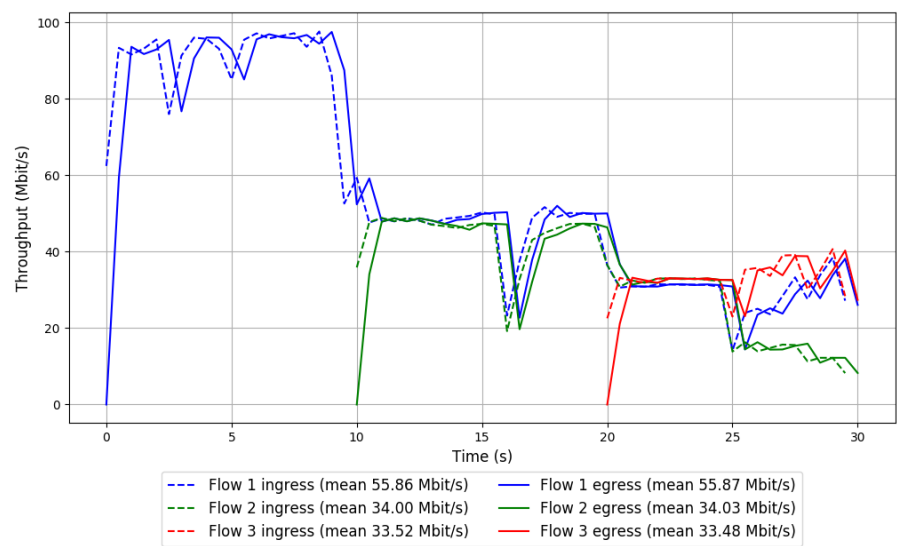
-- Flow 3:

Average throughput: 33.48 Mbit/s

95th percentile per-packet one-way delay: 24.235 ms

Loss rate: 0.41%

Run 4: Report of Indigo — Data Link

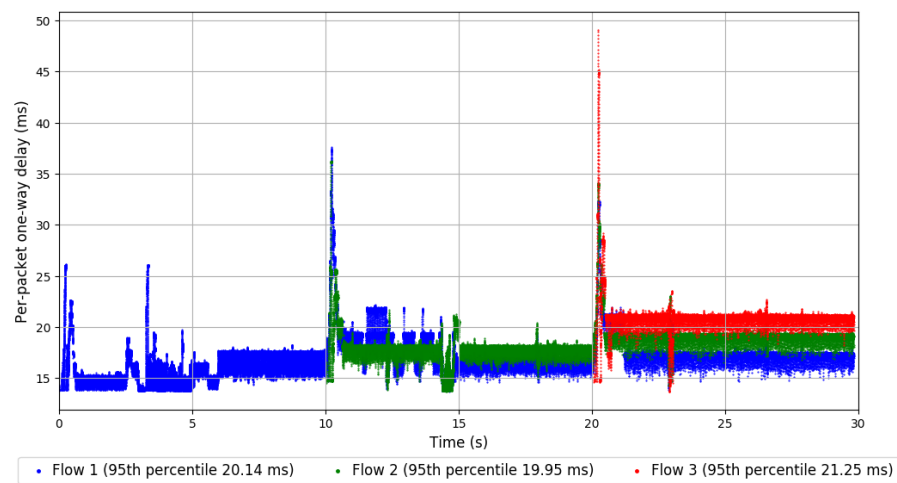
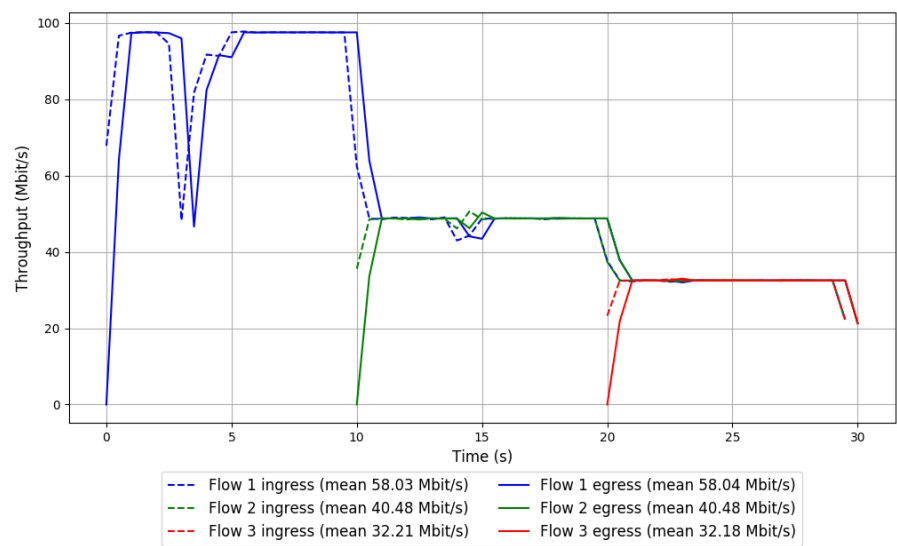


Run 5: Statistics of Indigo

Start at: 2018-05-22 16:51:14
End at: 2018-05-22 16:51:44
Local clock offset: -3.694 ms
Remote clock offset: -2.947 ms

Below is generated by plot.py at 2018-05-22 18:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 21.093 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 58.04 Mbit/s
95th percentile per-packet one-way delay: 20.144 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.48 Mbit/s
95th percentile per-packet one-way delay: 19.946 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 32.18 Mbit/s
95th percentile per-packet one-way delay: 21.252 ms
Loss rate: 0.35%

Run 5: Report of Indigo — Data Link

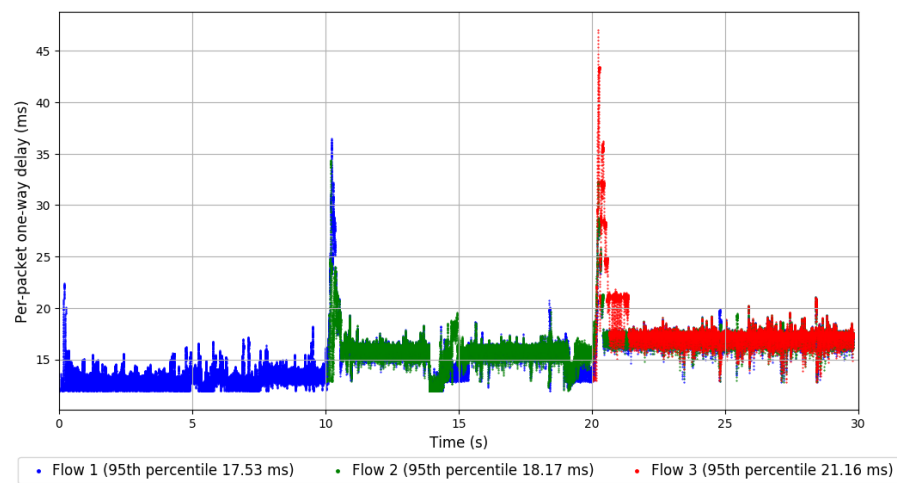
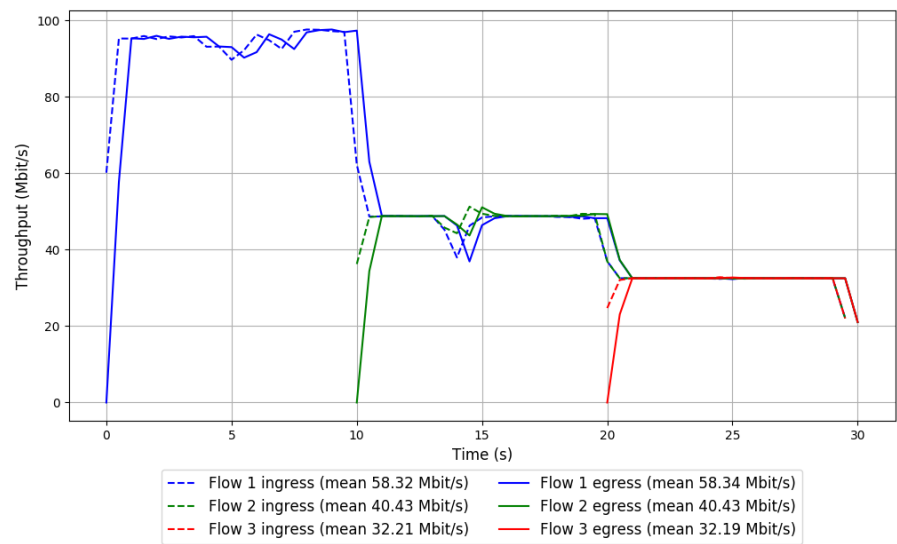


Run 6: Statistics of Indigo

Start at: 2018-05-22 17:11:26
End at: 2018-05-22 17:11:56
Local clock offset: -4.471 ms
Remote clock offset: -5.888 ms

Below is generated by plot.py at 2018-05-22 18:55:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 17.844 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 58.34 Mbit/s
95th percentile per-packet one-way delay: 17.529 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.43 Mbit/s
95th percentile per-packet one-way delay: 18.168 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 21.159 ms
Loss rate: 0.35%

Run 6: Report of Indigo — Data Link

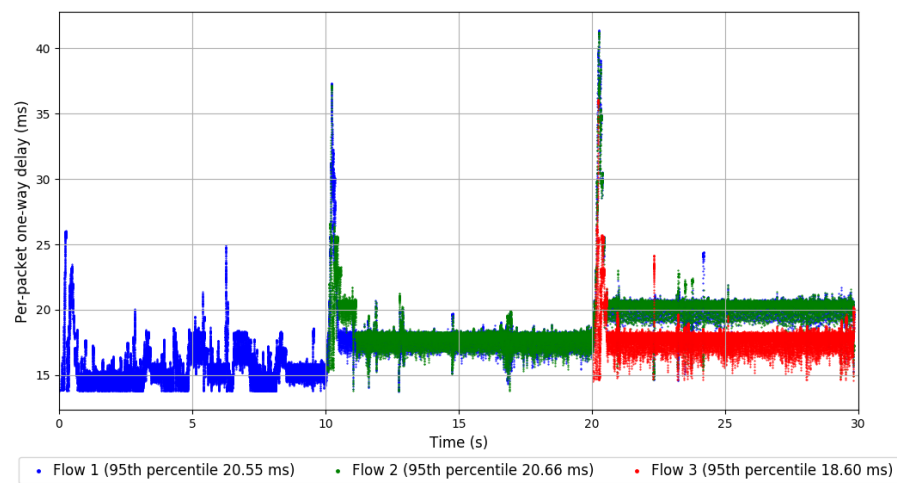
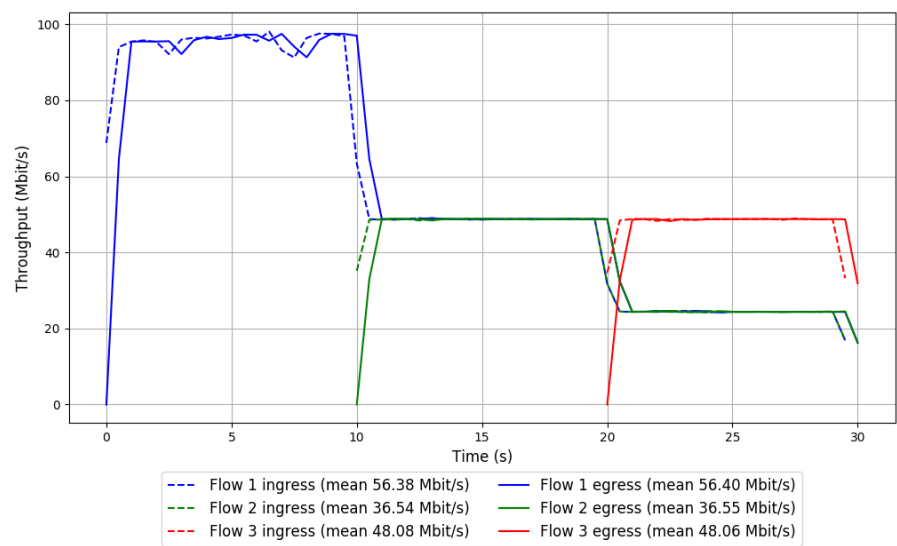


Run 7: Statistics of Indigo

Start at: 2018-05-22 17:31:01
End at: 2018-05-22 17:31:31
Local clock offset: -1.575 ms
Remote clock offset: -3.858 ms

Below is generated by plot.py at 2018-05-22 18:56:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.45 Mbit/s
95th percentile per-packet one-way delay: 20.574 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 56.40 Mbit/s
95th percentile per-packet one-way delay: 20.554 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 36.55 Mbit/s
95th percentile per-packet one-way delay: 20.656 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 48.06 Mbit/s
95th percentile per-packet one-way delay: 18.599 ms
Loss rate: 0.33%

Run 7: Report of Indigo — Data Link

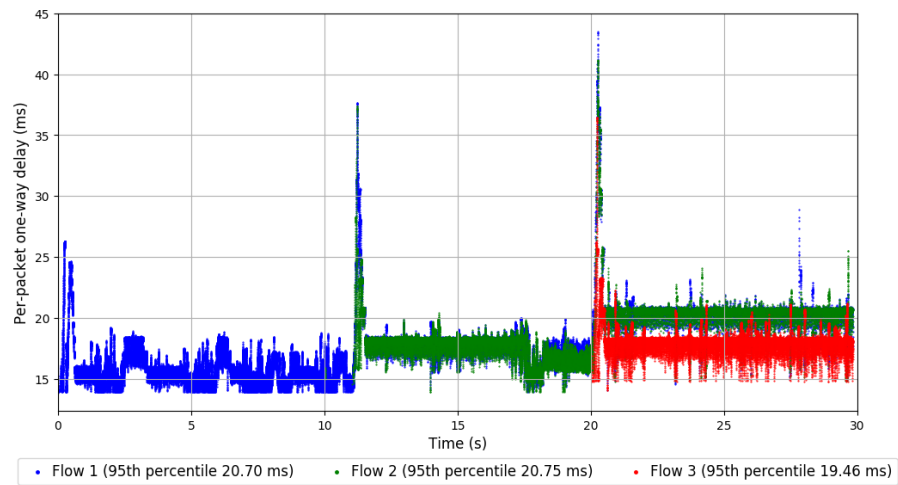
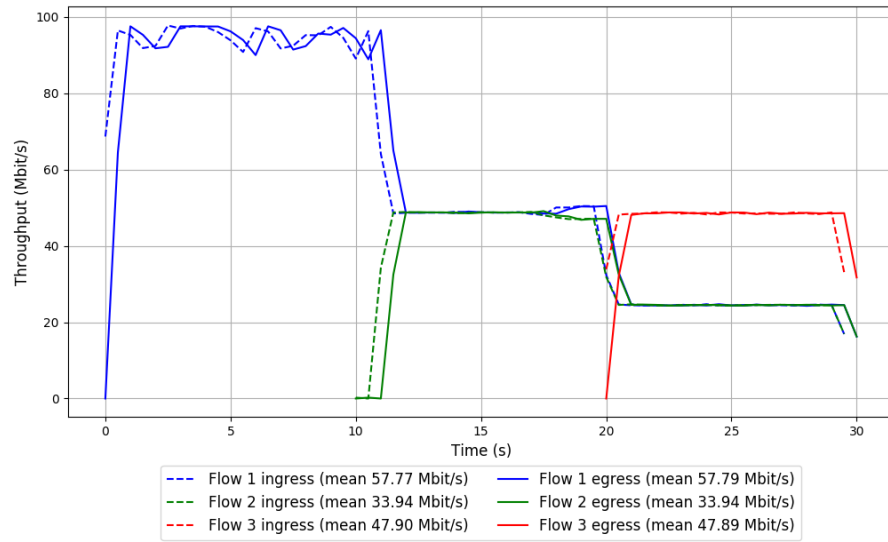


Run 8: Statistics of Indigo

Start at: 2018-05-22 17:50:11
End at: 2018-05-22 17:50:41
Local clock offset: 1.417 ms
Remote clock offset: -2.781 ms

Below is generated by plot.py at 2018-05-22 18:56:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 20.700 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 57.79 Mbit/s
95th percentile per-packet one-way delay: 20.696 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 33.94 Mbit/s
95th percentile per-packet one-way delay: 20.751 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 47.89 Mbit/s
95th percentile per-packet one-way delay: 19.460 ms
Loss rate: 0.33%

Run 8: Report of Indigo — Data Link

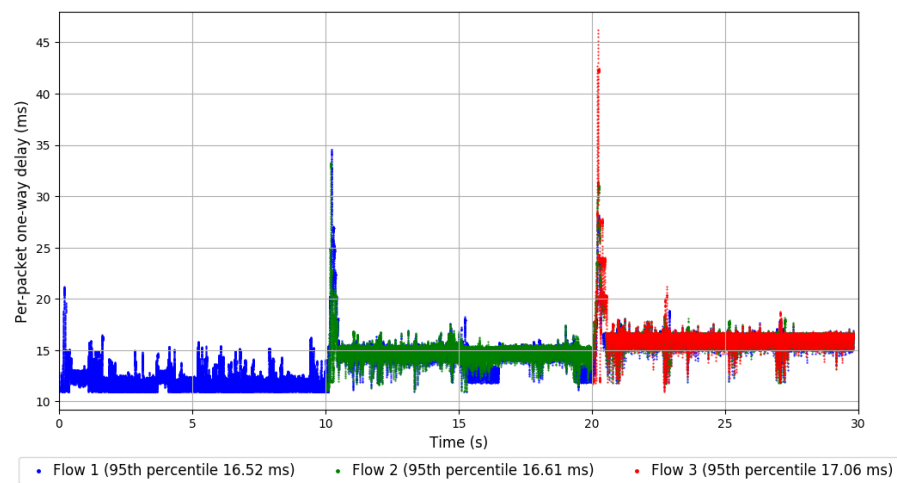
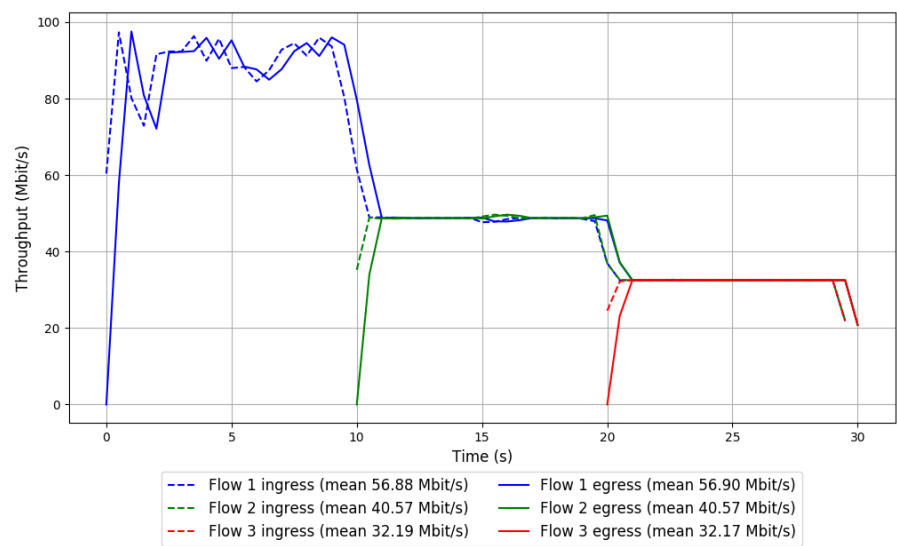


Run 9: Statistics of Indigo

Start at: 2018-05-22 18:09:39
End at: 2018-05-22 18:10:09
Local clock offset: -2.09 ms
Remote clock offset: -8.055 ms

Below is generated by plot.py at 2018-05-22 18:56:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.39 Mbit/s
95th percentile per-packet one-way delay: 16.578 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 56.90 Mbit/s
95th percentile per-packet one-way delay: 16.518 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.57 Mbit/s
95th percentile per-packet one-way delay: 16.610 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 32.17 Mbit/s
95th percentile per-packet one-way delay: 17.062 ms
Loss rate: 0.34%

Run 9: Report of Indigo — Data Link

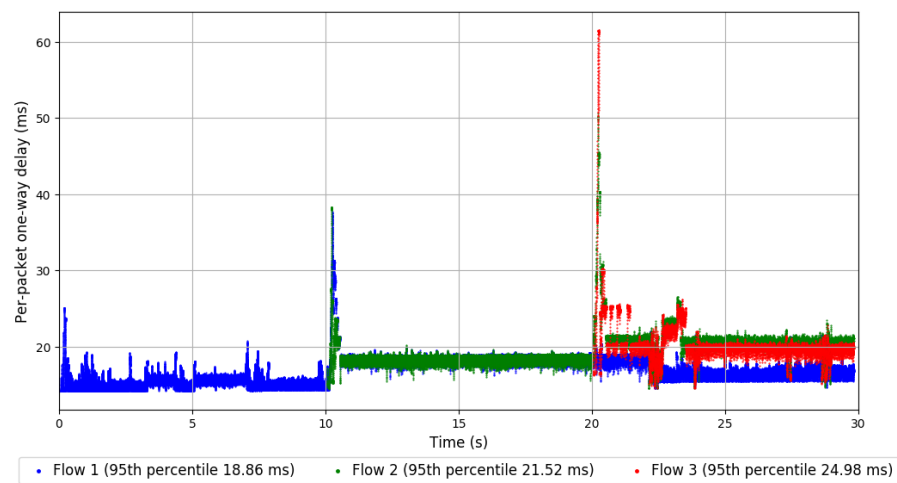
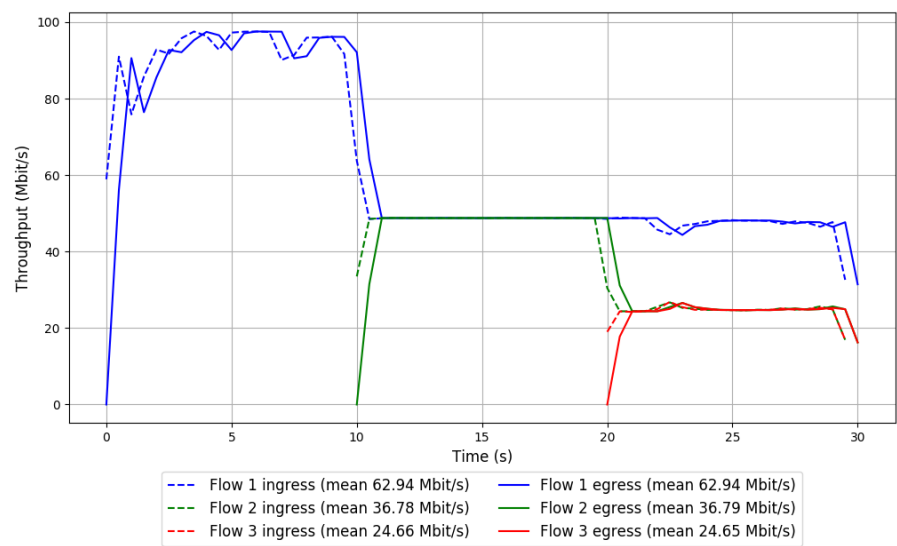


Run 10: Statistics of Indigo

Start at: 2018-05-22 18:28:58
End at: 2018-05-22 18:29:28
Local clock offset: 0.471 ms
Remote clock offset: -6.659 ms

Below is generated by plot.py at 2018-05-22 18:56:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 21.120 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 62.94 Mbit/s
95th percentile per-packet one-way delay: 18.865 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 36.79 Mbit/s
95th percentile per-packet one-way delay: 21.525 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 24.976 ms
Loss rate: 0.36%

Run 10: Report of Indigo — Data Link

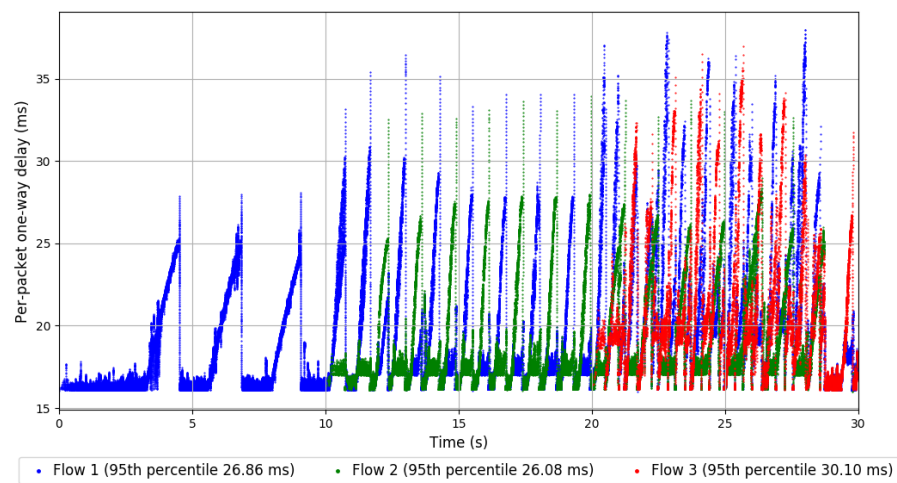
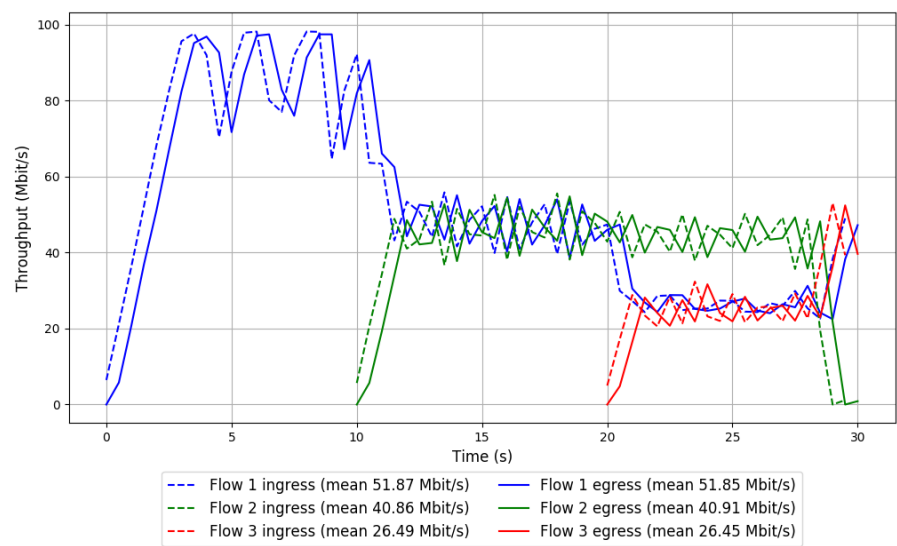


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-22 15:34:31
End at: 2018-05-22 15:35:01
Local clock offset: 0.315 ms
Remote clock offset: 7.02 ms

# Below is generated by plot.py at 2018-05-22 18:56:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.82 Mbit/s
95th percentile per-packet one-way delay: 26.834 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 51.85 Mbit/s
95th percentile per-packet one-way delay: 26.860 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 26.079 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 26.45 Mbit/s
95th percentile per-packet one-way delay: 30.096 ms
Loss rate: 0.41%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-22 15:53:57

End at: 2018-05-22 15:54:27

Local clock offset: 0.167 ms

Remote clock offset: 1.544 ms

Below is generated by plot.py at 2018-05-22 18:56:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.78 Mbit/s

95th percentile per-packet one-way delay: 25.561 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 51.00 Mbit/s

95th percentile per-packet one-way delay: 24.726 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 39.63 Mbit/s

95th percentile per-packet one-way delay: 25.934 ms

Loss rate: 0.18%

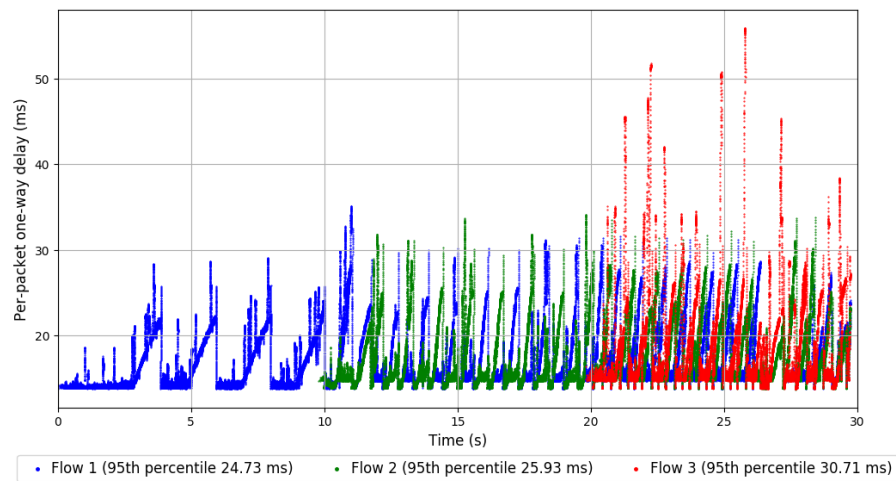
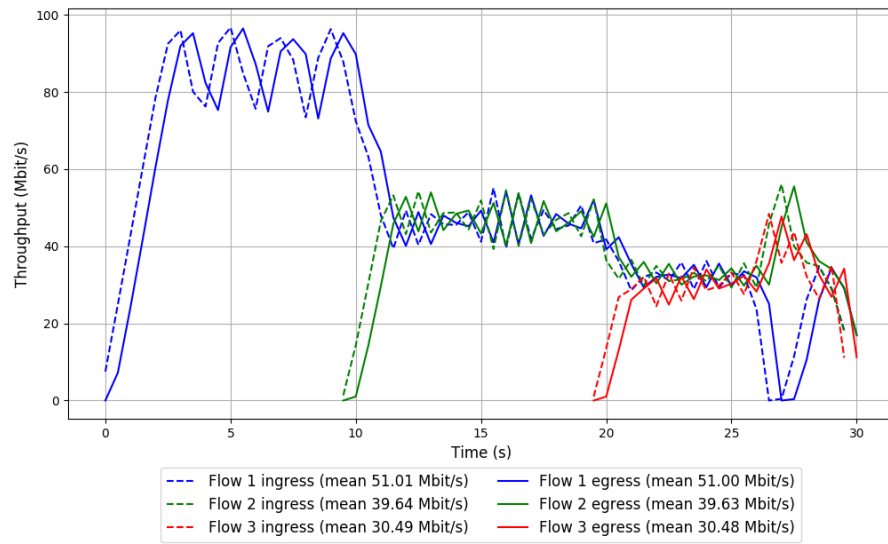
-- Flow 3:

Average throughput: 30.48 Mbit/s

95th percentile per-packet one-way delay: 30.708 ms

Loss rate: 0.29%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-22 16:13:18

End at: 2018-05-22 16:13:48

Local clock offset: -1.033 ms

Remote clock offset: 4.059 ms

Below is generated by plot.py at 2018-05-22 18:56:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 20.894 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 70.87 Mbit/s

95th percentile per-packet one-way delay: 20.476 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 11.753 ms

Loss rate: 0.00%

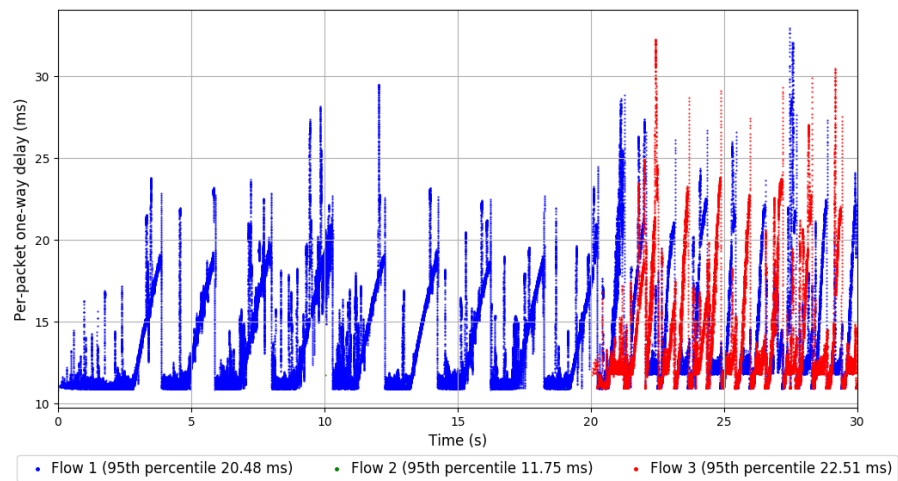
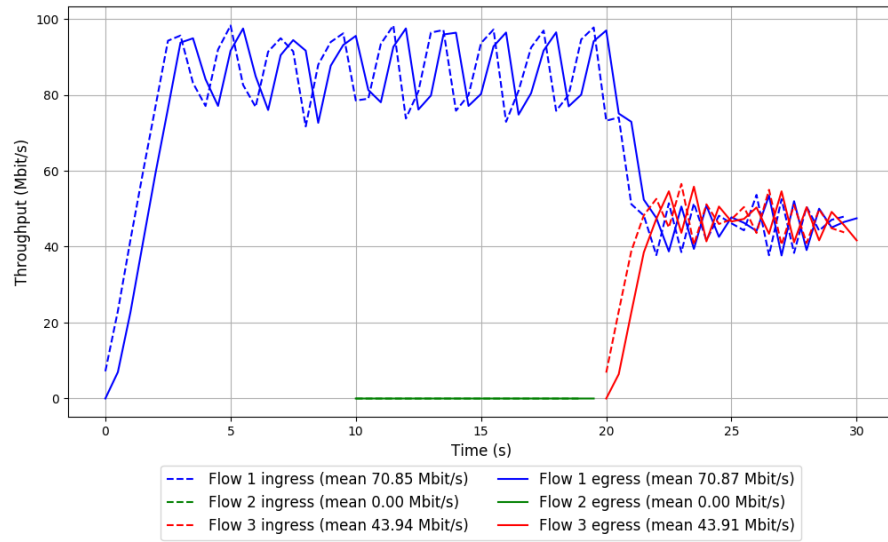
-- Flow 3:

Average throughput: 43.91 Mbit/s

95th percentile per-packet one-way delay: 22.514 ms

Loss rate: 0.35%

Run 3: Report of LEDBAT — Data Link

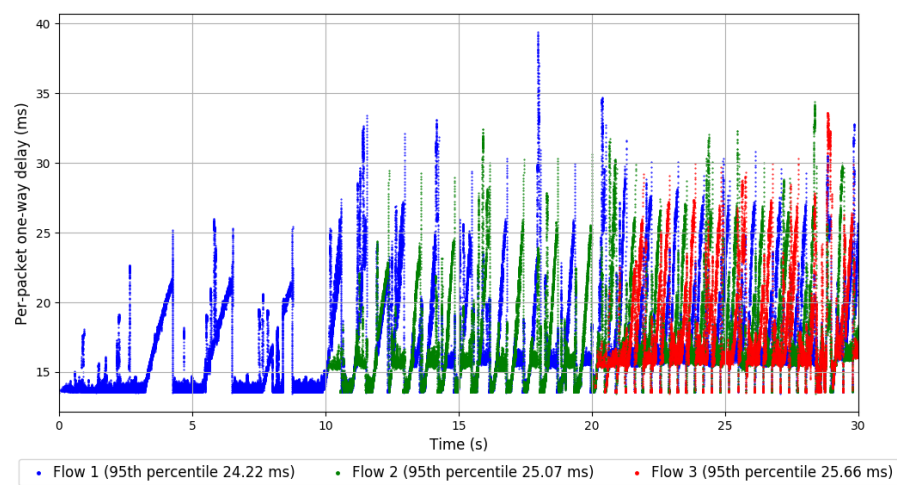
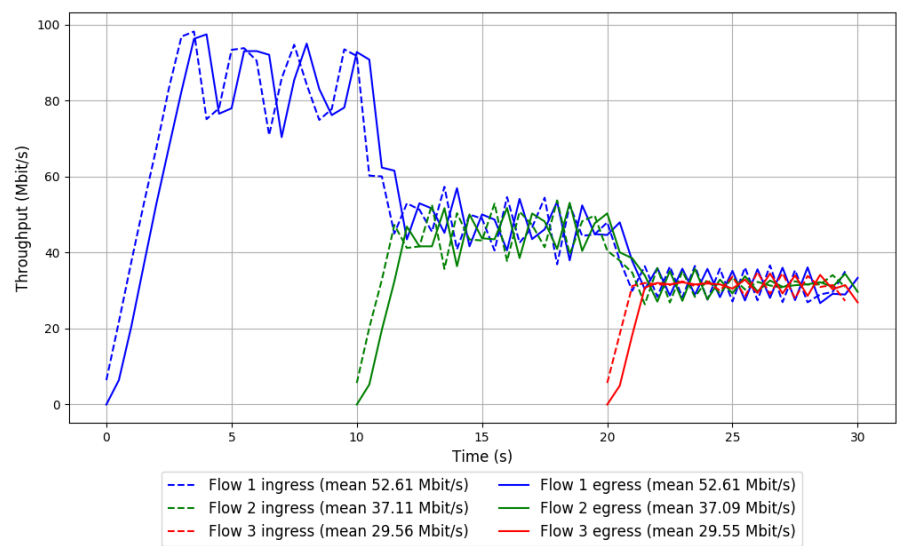


Run 4: Statistics of LEDBAT

Start at: 2018-05-22 16:32:59
End at: 2018-05-22 16:33:29
Local clock offset: -0.717 ms
Remote clock offset: 4.814 ms

Below is generated by plot.py at 2018-05-22 18:56:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.10 Mbit/s
95th percentile per-packet one-way delay: 24.823 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 52.61 Mbit/s
95th percentile per-packet one-way delay: 24.222 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 37.09 Mbit/s
95th percentile per-packet one-way delay: 25.067 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 29.55 Mbit/s
95th percentile per-packet one-way delay: 25.662 ms
Loss rate: 0.31%

Run 4: Report of LEDBAT — Data Link

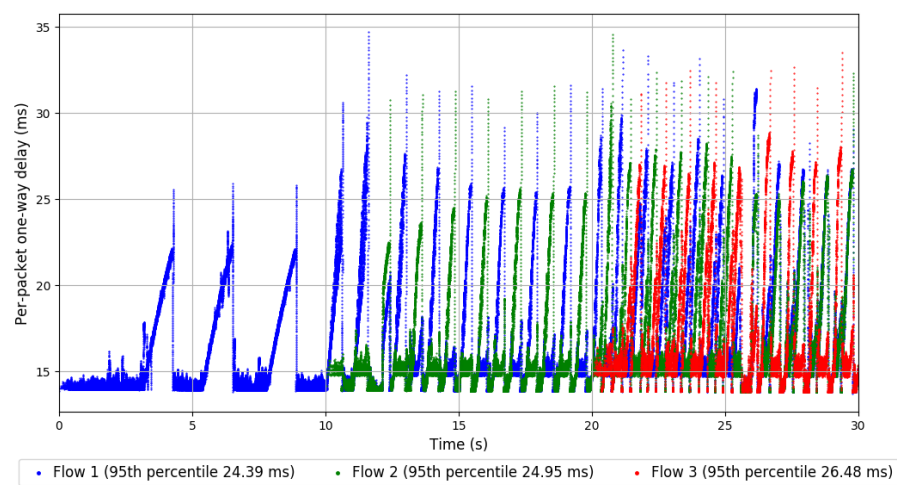
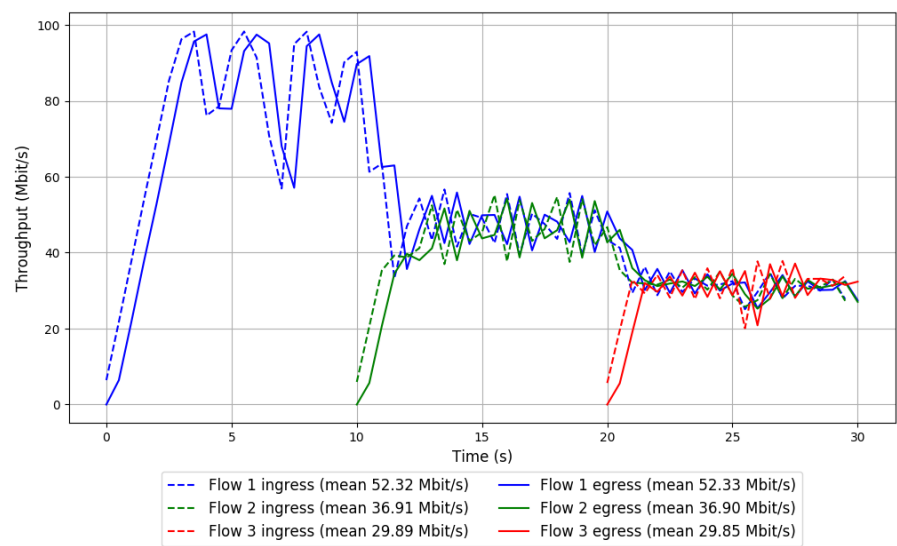


Run 5: Statistics of LEDBAT

Start at: 2018-05-22 16:52:35
End at: 2018-05-22 16:53:05
Local clock offset: -1.139 ms
Remote clock offset: -1.016 ms

Below is generated by plot.py at 2018-05-22 18:57:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.80 Mbit/s
95th percentile per-packet one-way delay: 24.928 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 52.33 Mbit/s
95th percentile per-packet one-way delay: 24.385 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 36.90 Mbit/s
95th percentile per-packet one-way delay: 24.946 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 29.85 Mbit/s
95th percentile per-packet one-way delay: 26.480 ms
Loss rate: 0.44%

Run 5: Report of LEDBAT — Data Link

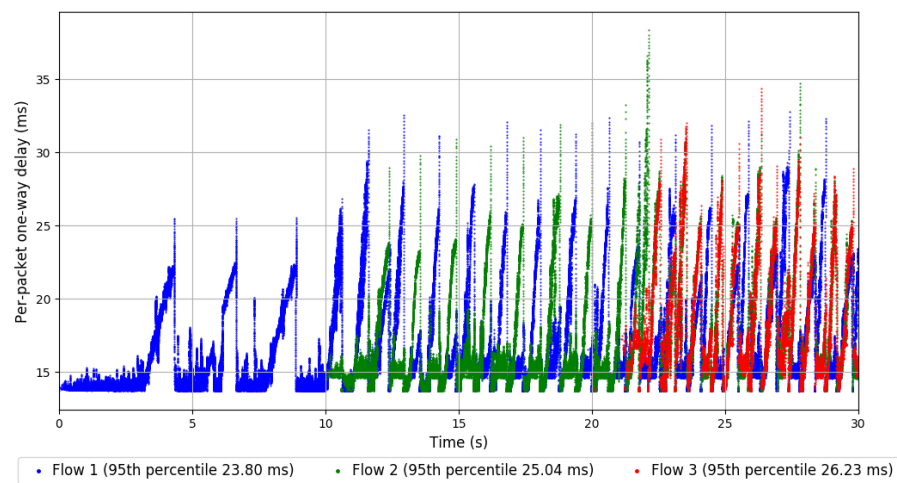
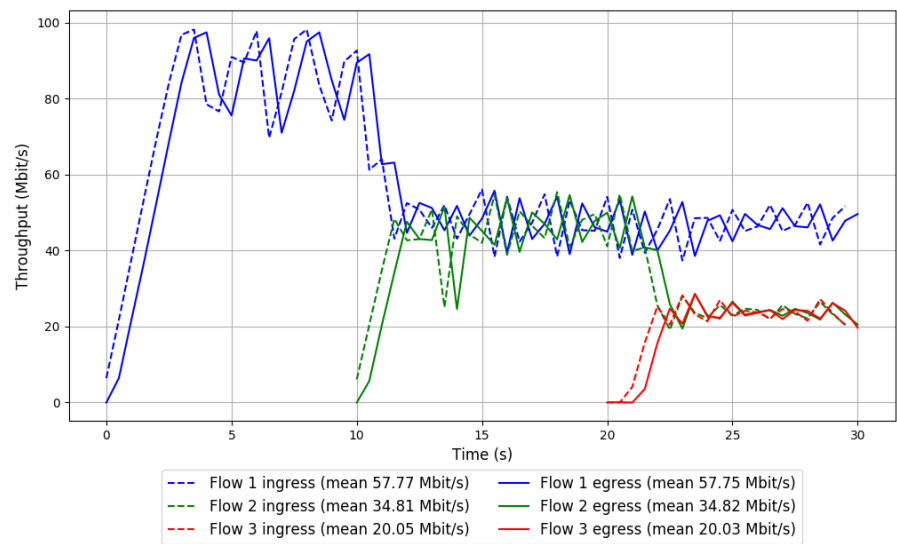


Run 6: Statistics of LEDBAT

Start at: 2018-05-22 17:12:42
End at: 2018-05-22 17:13:12
Local clock offset: -2.212 ms
Remote clock offset: -5.571 ms

Below is generated by plot.py at 2018-05-22 18:57:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.58 Mbit/s
95th percentile per-packet one-way delay: 24.607 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 57.75 Mbit/s
95th percentile per-packet one-way delay: 23.796 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 34.82 Mbit/s
95th percentile per-packet one-way delay: 25.040 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 20.03 Mbit/s
95th percentile per-packet one-way delay: 26.235 ms
Loss rate: 0.39%

Run 6: Report of LEDBAT — Data Link

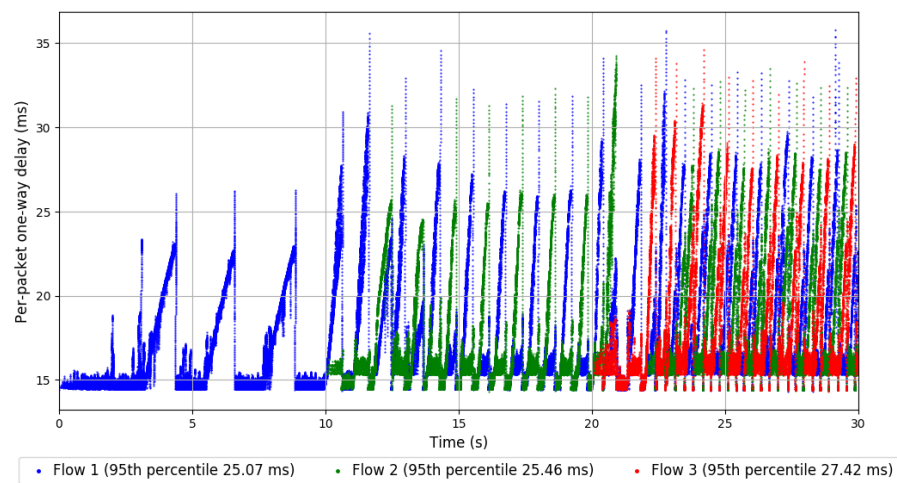
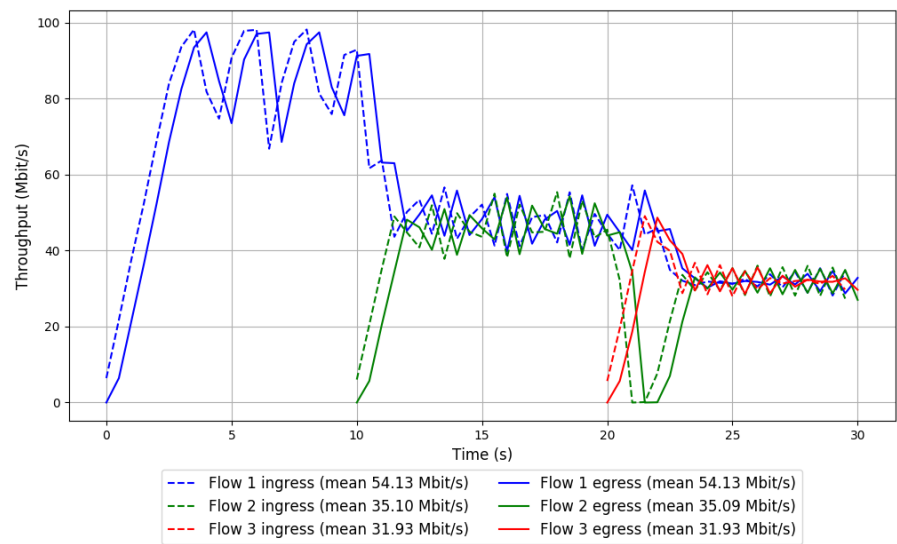


Run 7: Statistics of LEDBAT

Start at: 2018-05-22 17:32:19
End at: 2018-05-22 17:32:49
Local clock offset: -0.405 ms
Remote clock offset: -3.565 ms

Below is generated by plot.py at 2018-05-22 18:57:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.09 Mbit/s
95th percentile per-packet one-way delay: 25.657 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 54.13 Mbit/s
95th percentile per-packet one-way delay: 25.067 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 35.09 Mbit/s
95th percentile per-packet one-way delay: 25.459 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 31.93 Mbit/s
95th percentile per-packet one-way delay: 27.419 ms
Loss rate: 0.28%

Run 7: Report of LEDBAT — Data Link

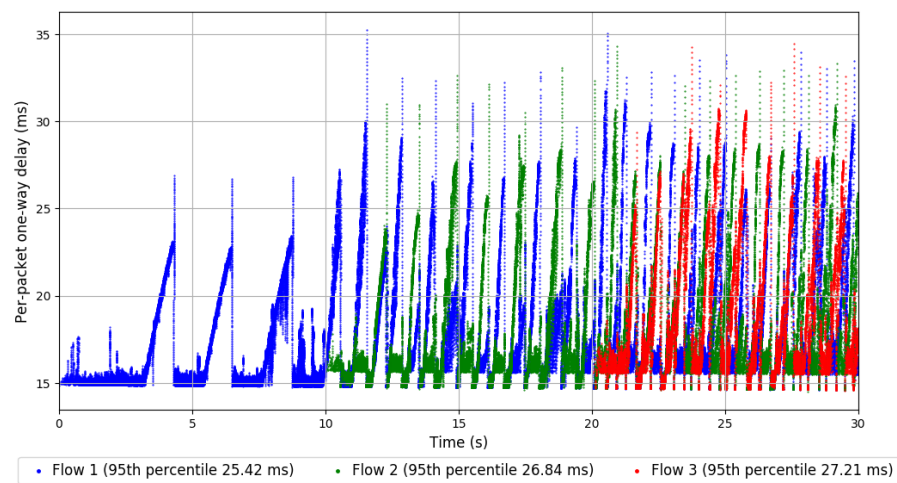
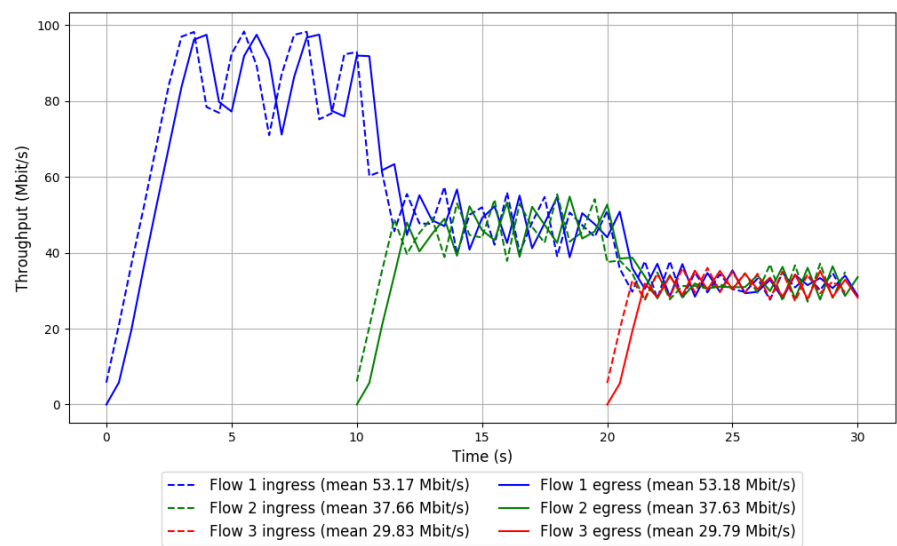


Run 8: Statistics of LEDBAT

Start at: 2018-05-22 17:51:28
End at: 2018-05-22 17:51:58
Local clock offset: 1.598 ms
Remote clock offset: -3.666 ms

Below is generated by plot.py at 2018-05-22 18:57:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.13 Mbit/s
95th percentile per-packet one-way delay: 26.237 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 53.18 Mbit/s
95th percentile per-packet one-way delay: 25.421 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 37.63 Mbit/s
95th percentile per-packet one-way delay: 26.842 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 29.79 Mbit/s
95th percentile per-packet one-way delay: 27.214 ms
Loss rate: 0.41%

Run 8: Report of LEDBAT — Data Link

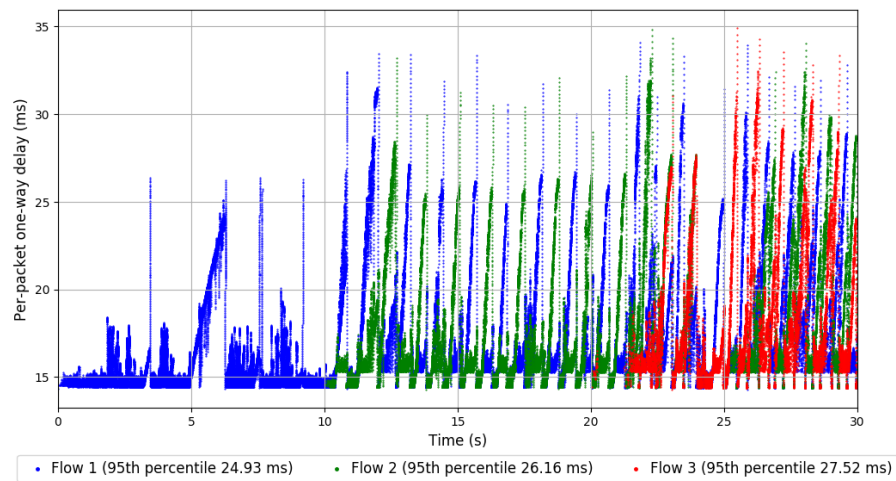
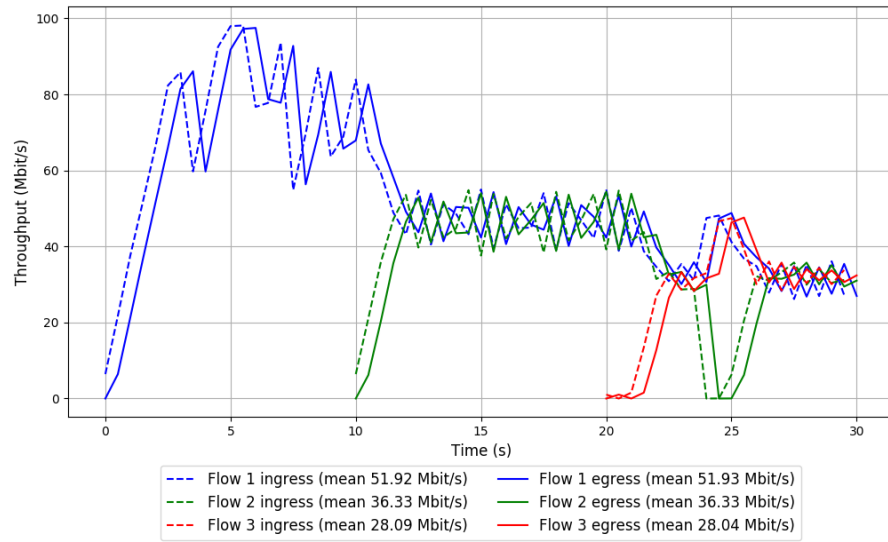


Run 9: Statistics of LEDBAT

Start at: 2018-05-22 18:10:54
End at: 2018-05-22 18:11:24
Local clock offset: 0.624 ms
Remote clock offset: -8.964 ms

Below is generated by plot.py at 2018-05-22 18:57:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.44 Mbit/s
95th percentile per-packet one-way delay: 25.765 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 51.93 Mbit/s
95th percentile per-packet one-way delay: 24.927 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 36.33 Mbit/s
95th percentile per-packet one-way delay: 26.162 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 28.04 Mbit/s
95th percentile per-packet one-way delay: 27.523 ms
Loss rate: 0.47%

Run 9: Report of LEDBAT — Data Link

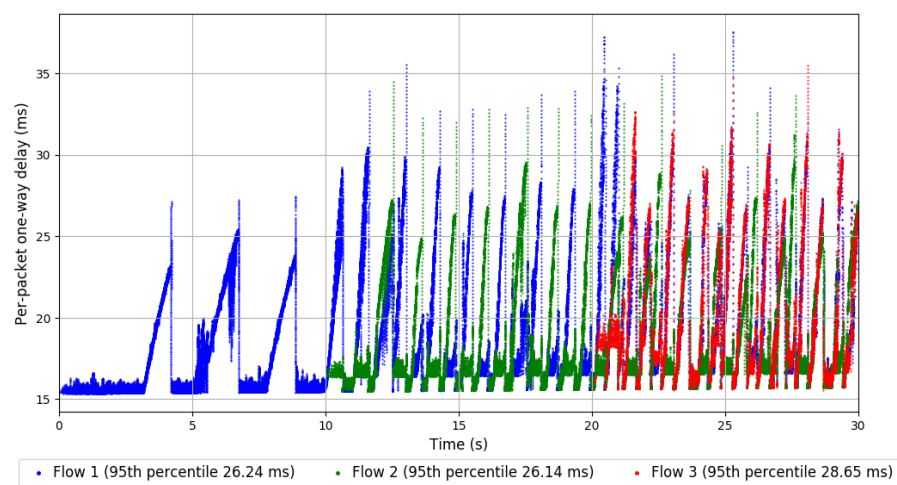
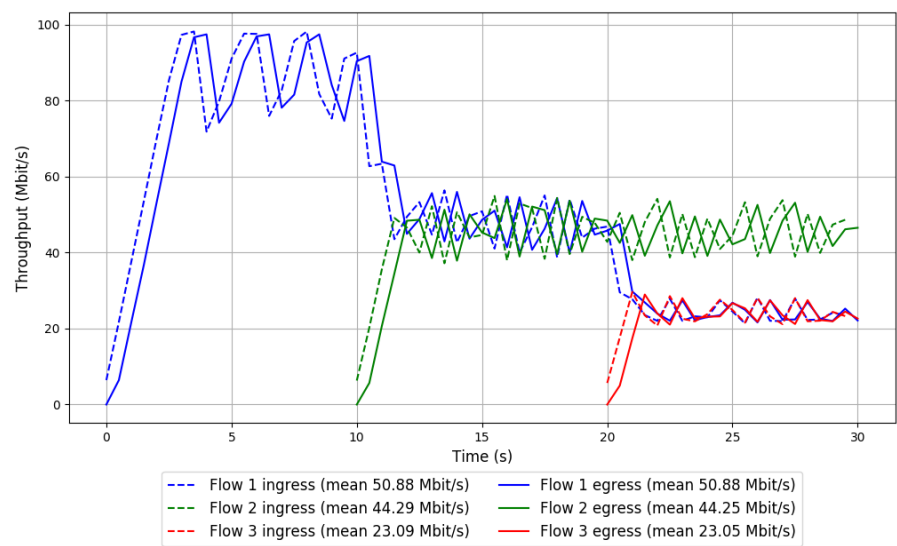


Run 10: Statistics of LEDBAT

Start at: 2018-05-22 18:30:13
End at: 2018-05-22 18:30:43
Local clock offset: -2.863 ms
Remote clock offset: -10.059 ms

Below is generated by plot.py at 2018-05-22 18:57:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.00 Mbit/s
95th percentile per-packet one-way delay: 26.459 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 50.88 Mbit/s
95th percentile per-packet one-way delay: 26.237 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 44.25 Mbit/s
95th percentile per-packet one-way delay: 26.136 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 23.05 Mbit/s
95th percentile per-packet one-way delay: 28.646 ms
Loss rate: 0.47%

Run 10: Report of LEDBAT — Data Link

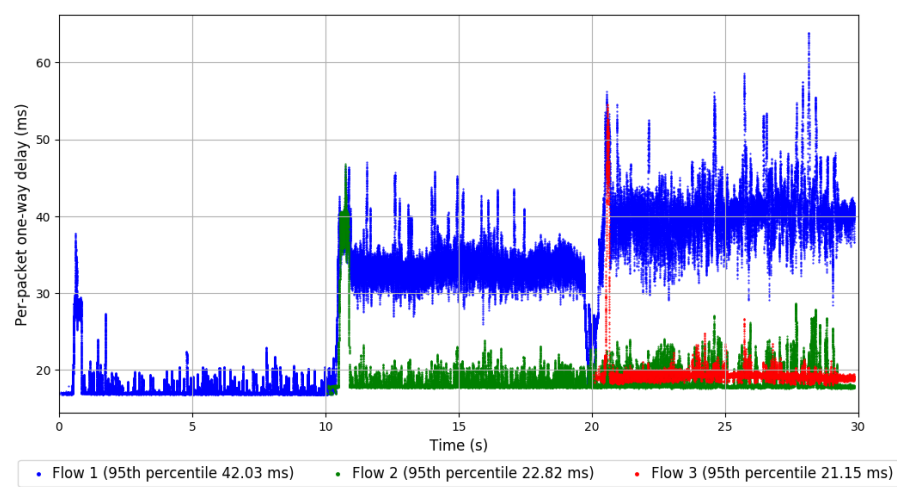
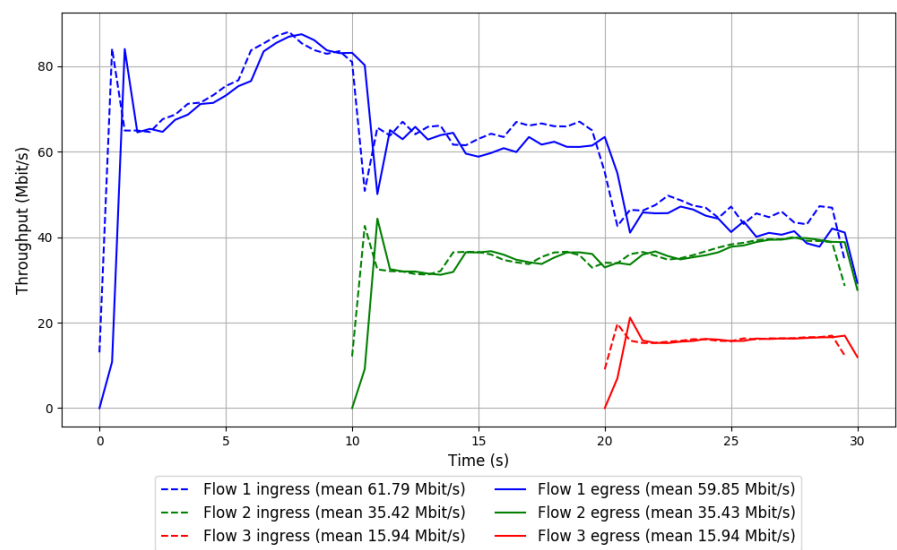


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-22 15:43:01
End at: 2018-05-22 15:43:31
Local clock offset: 0.04 ms
Remote clock offset: 1.779 ms

# Below is generated by plot.py at 2018-05-22 18:57:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.63 Mbit/s
95th percentile per-packet one-way delay: 41.276 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 59.85 Mbit/s
95th percentile per-packet one-way delay: 42.030 ms
Loss rate: 3.25%
-- Flow 2:
Average throughput: 35.43 Mbit/s
95th percentile per-packet one-way delay: 22.821 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 15.94 Mbit/s
95th percentile per-packet one-way delay: 21.149 ms
Loss rate: 0.32%
```


Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-22 16:02:30

End at: 2018-05-22 16:03:00

Local clock offset: -5.066 ms

Remote clock offset: 3.856 ms

Below is generated by plot.py at 2018-05-22 18:57:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.94 Mbit/s

95th percentile per-packet one-way delay: 48.186 ms

Loss rate: 2.61%

-- Flow 1:

Average throughput: 41.42 Mbit/s

95th percentile per-packet one-way delay: 47.775 ms

Loss rate: 2.28%

-- Flow 2:

Average throughput: 32.23 Mbit/s

95th percentile per-packet one-way delay: 51.411 ms

Loss rate: 4.32%

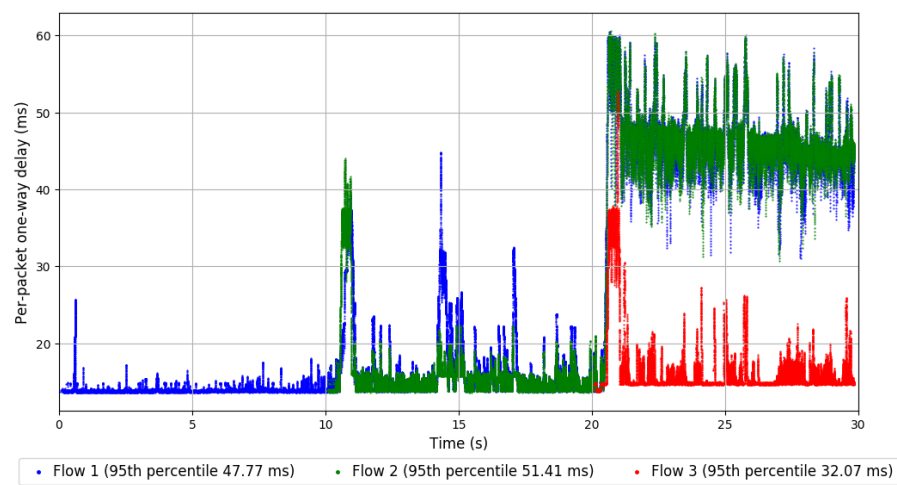
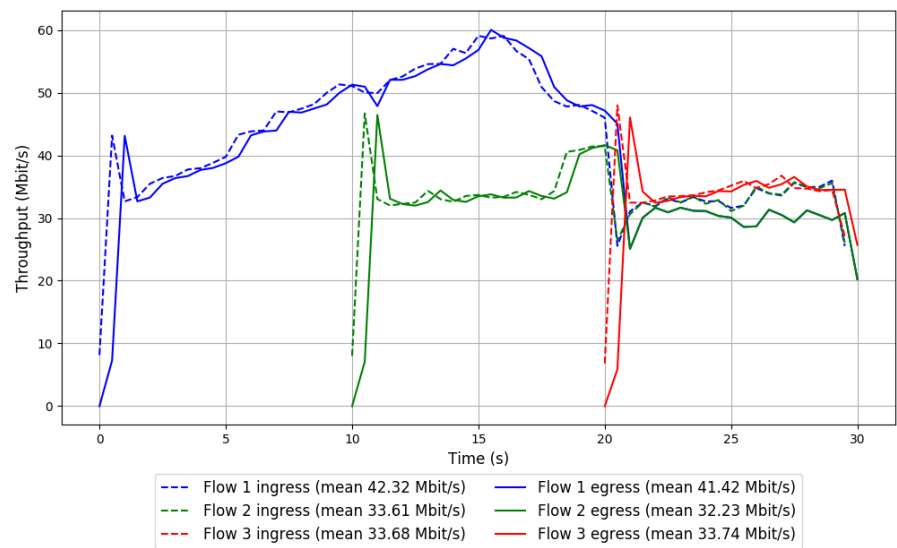
-- Flow 3:

Average throughput: 33.74 Mbit/s

95th percentile per-packet one-way delay: 32.074 ms

Loss rate: 0.39%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

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

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

Local clock offset: -0.331 ms

Remote clock offset: 0.134 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.91 Mbit/s

95th percentile per-packet one-way delay: 48.688 ms

Loss rate: 2.11%

-- Flow 1:

Average throughput: 36.11 Mbit/s

95th percentile per-packet one-way delay: 47.966 ms

Loss rate: 2.66%

-- Flow 2:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 47.381 ms

Loss rate: 0.52%

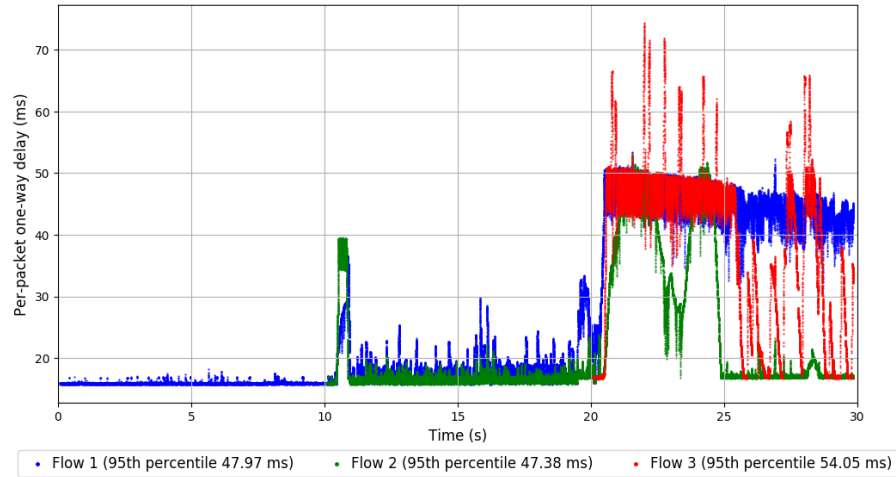
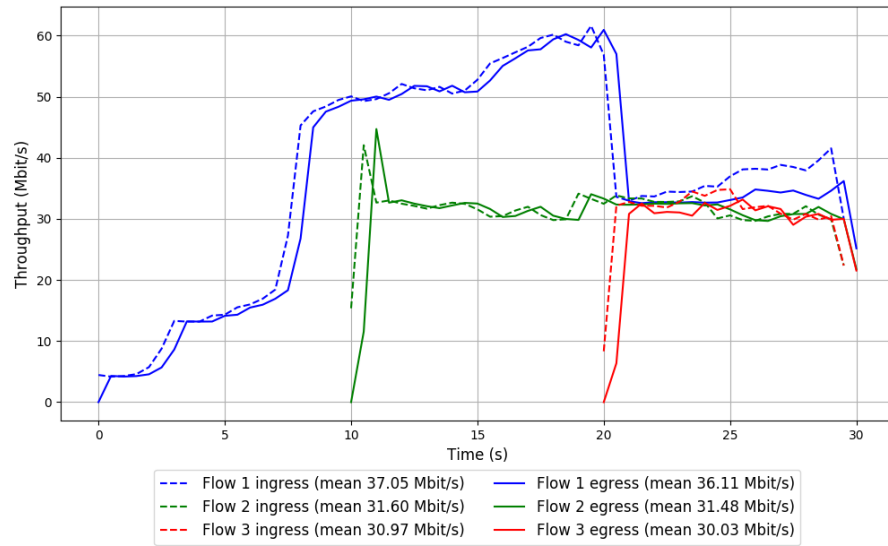
-- Flow 3:

Average throughput: 30.03 Mbit/s

95th percentile per-packet one-way delay: 54.052 ms

Loss rate: 3.36%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-22 16:41:30

End at: 2018-05-22 16:42:00

Local clock offset: -1.351 ms

Remote clock offset: 4.277 ms

Below is generated by plot.py at 2018-05-22 18:58:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.21 Mbit/s

95th percentile per-packet one-way delay: 46.207 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 51.42 Mbit/s

95th percentile per-packet one-way delay: 44.862 ms

Loss rate: 2.15%

-- Flow 2:

Average throughput: 33.84 Mbit/s

95th percentile per-packet one-way delay: 46.706 ms

Loss rate: 1.61%

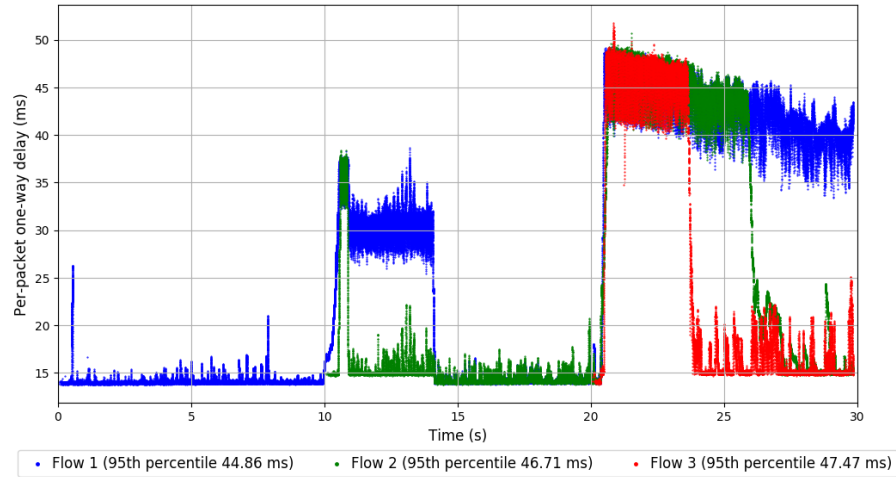
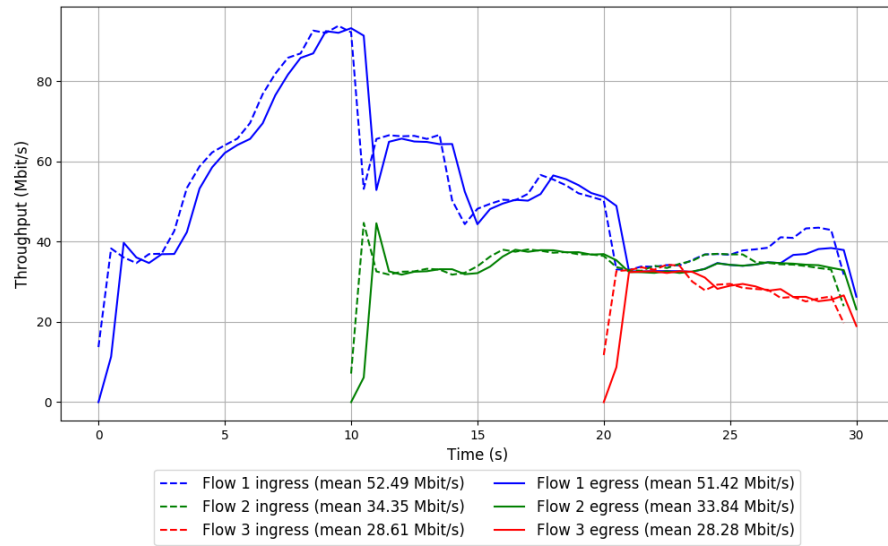
-- Flow 3:

Average throughput: 28.28 Mbit/s

95th percentile per-packet one-way delay: 47.472 ms

Loss rate: 1.42%

Run 4: Report of PCC-Allegro — Data Link

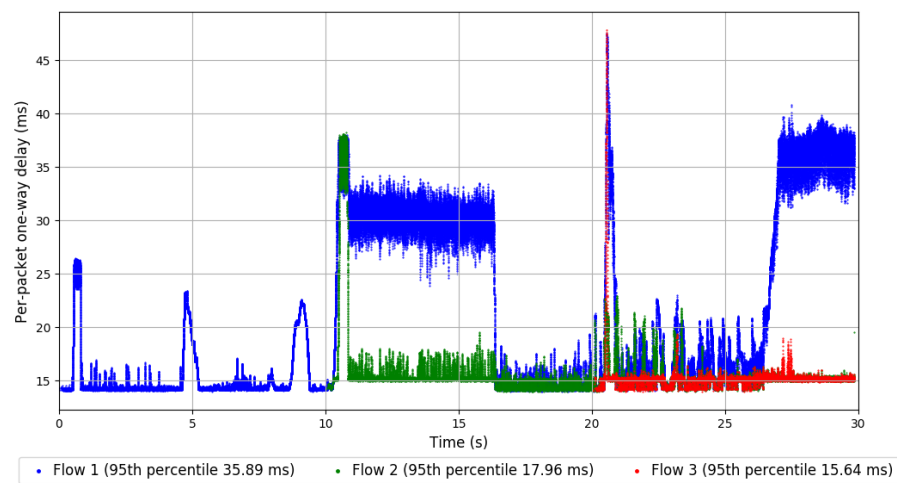
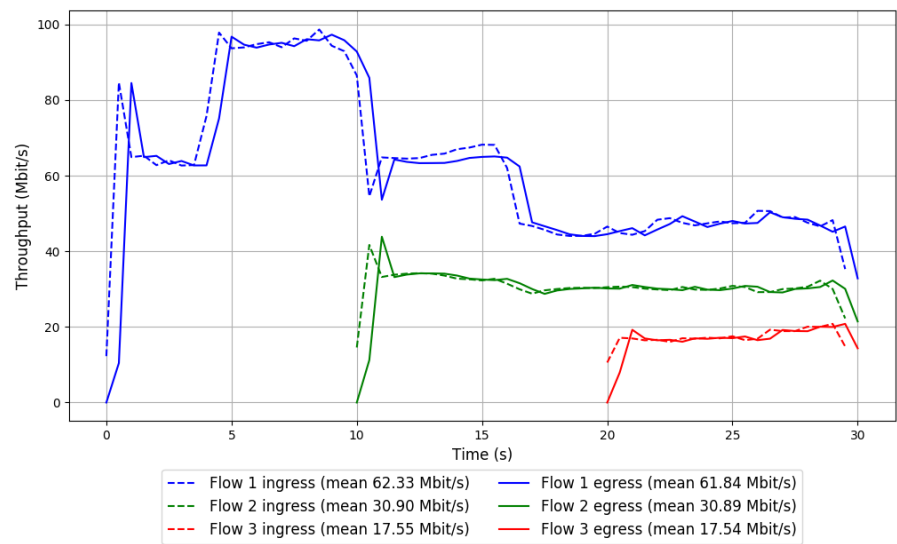


Run 5: Statistics of PCC-Allegro

Start at: 2018-05-22 17:01:30
End at: 2018-05-22 17:02:00
Local clock offset: -1.366 ms
Remote clock offset: -3.674 ms

Below is generated by plot.py at 2018-05-22 18:58:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.13 Mbit/s
95th percentile per-packet one-way delay: 34.934 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 61.84 Mbit/s
95th percentile per-packet one-way delay: 35.888 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 30.89 Mbit/s
95th percentile per-packet one-way delay: 17.965 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 17.54 Mbit/s
95th percentile per-packet one-way delay: 15.641 ms
Loss rate: 0.32%

Run 5: Report of PCC-Allegro — Data Link

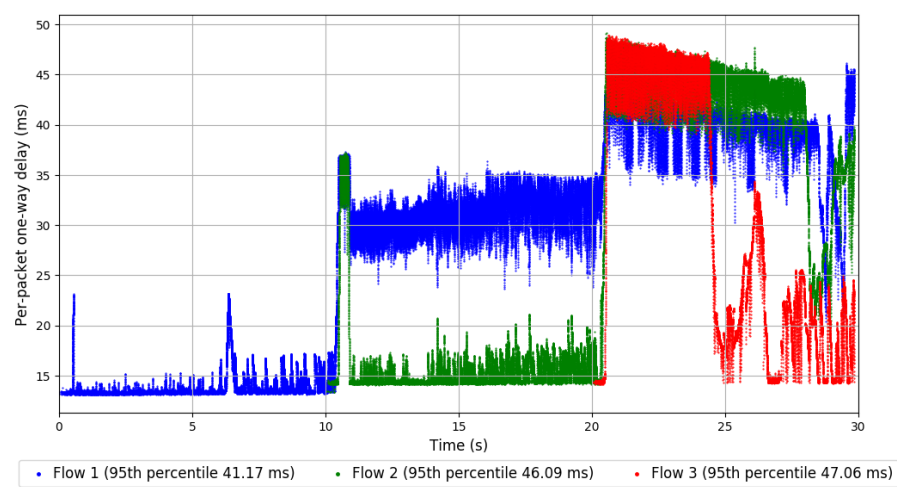
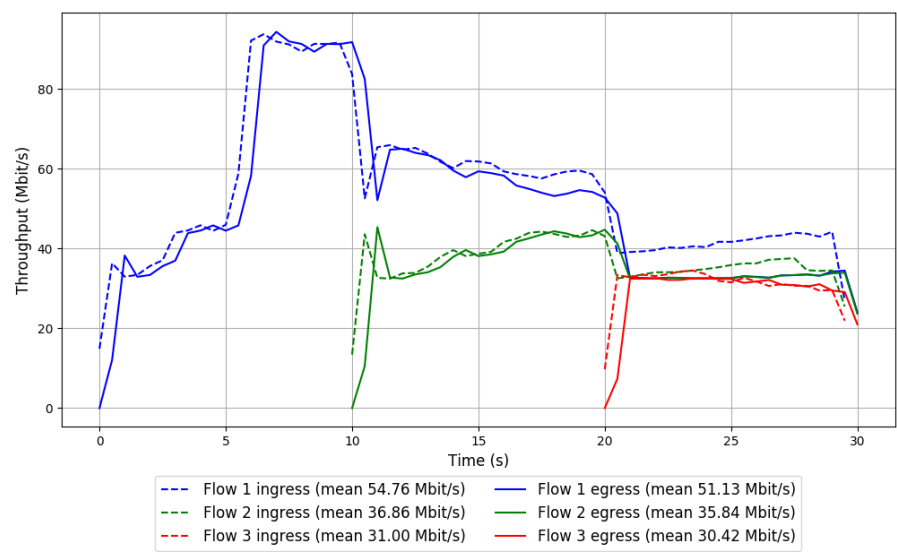


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-22 17:21:28
End at: 2018-05-22 17:21:58
Local clock offset: -2.459 ms
Remote clock offset: -4.466 ms

Below is generated by plot.py at 2018-05-22 18:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.95 Mbit/s
95th percentile per-packet one-way delay: 45.235 ms
Loss rate: 5.18%
-- Flow 1:
Average throughput: 51.13 Mbit/s
95th percentile per-packet one-way delay: 41.175 ms
Loss rate: 6.76%
-- Flow 2:
Average throughput: 35.84 Mbit/s
95th percentile per-packet one-way delay: 46.092 ms
Loss rate: 2.91%
-- Flow 3:
Average throughput: 30.42 Mbit/s
95th percentile per-packet one-way delay: 47.062 ms
Loss rate: 2.15%

Run 6: Report of PCC-Allegro — Data Link

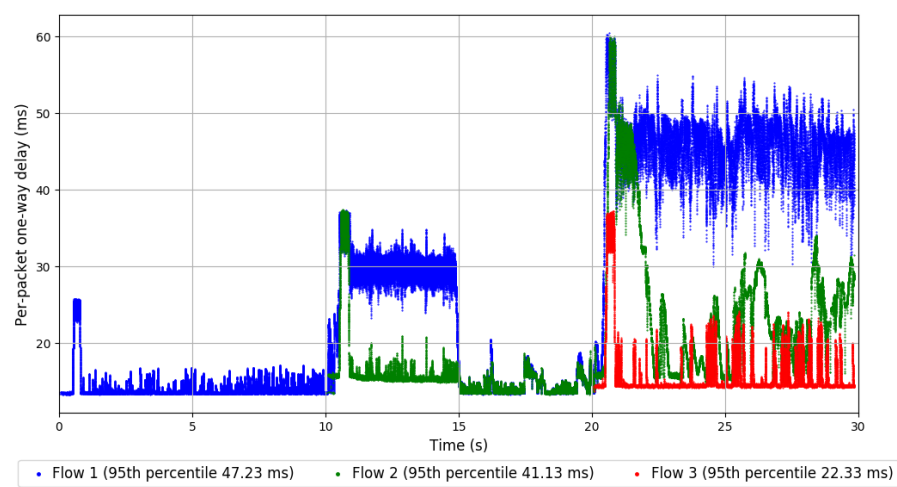
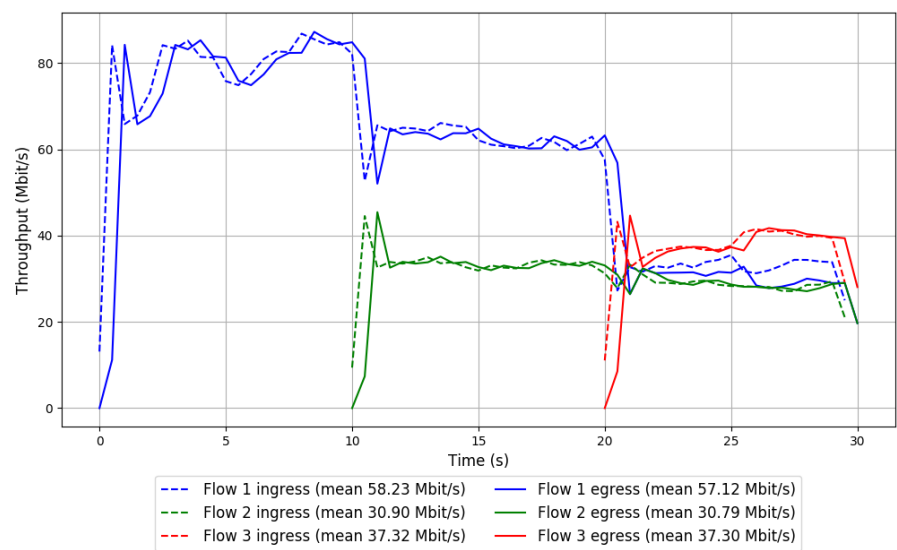


Run 7: Statistics of PCC-Allegro

Start at: 2018-05-22 17:40:42
End at: 2018-05-22 17:41:12
Local clock offset: 0.348 ms
Remote clock offset: -2.648 ms

Below is generated by plot.py at 2018-05-22 18:58:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.84 Mbit/s
95th percentile per-packet one-way delay: 46.242 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 57.12 Mbit/s
95th percentile per-packet one-way delay: 47.227 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 30.79 Mbit/s
95th percentile per-packet one-way delay: 41.131 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 37.30 Mbit/s
95th percentile per-packet one-way delay: 22.327 ms
Loss rate: 0.33%

Run 7: Report of PCC-Allegro — Data Link

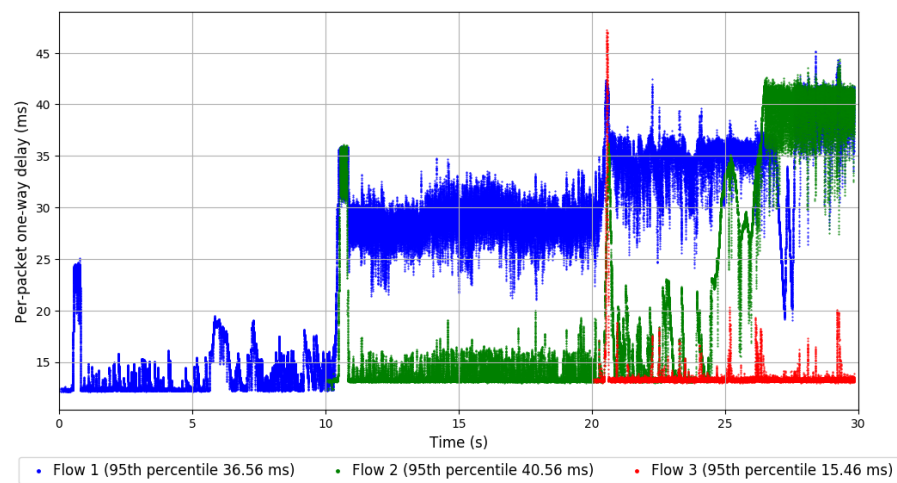
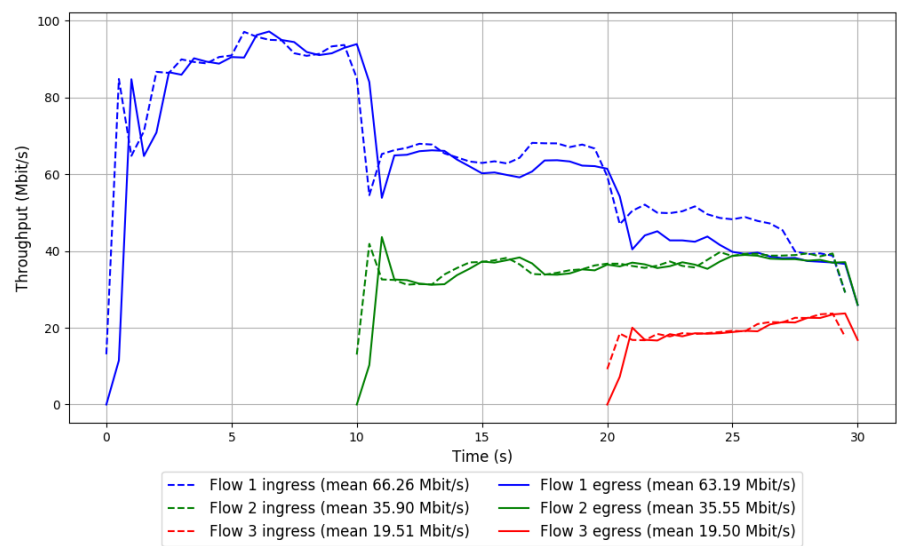


Run 8: Statistics of PCC-Allegro

Start at: 2018-05-22 18:00:09
End at: 2018-05-22 18:00:39
Local clock offset: -0.376 ms
Remote clock offset: -6.236 ms

Below is generated by plot.py at 2018-05-22 18:58:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.23 Mbit/s
95th percentile per-packet one-way delay: 38.792 ms
Loss rate: 3.56%
-- Flow 1:
Average throughput: 63.19 Mbit/s
95th percentile per-packet one-way delay: 36.565 ms
Loss rate: 4.74%
-- Flow 2:
Average throughput: 35.55 Mbit/s
95th percentile per-packet one-way delay: 40.561 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 19.50 Mbit/s
95th percentile per-packet one-way delay: 15.459 ms
Loss rate: 0.37%

Run 8: Report of PCC-Allegro — Data Link

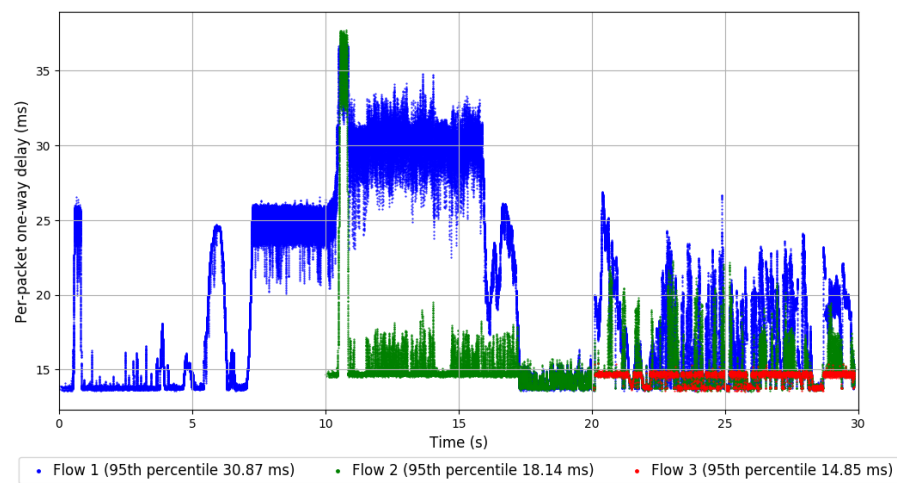
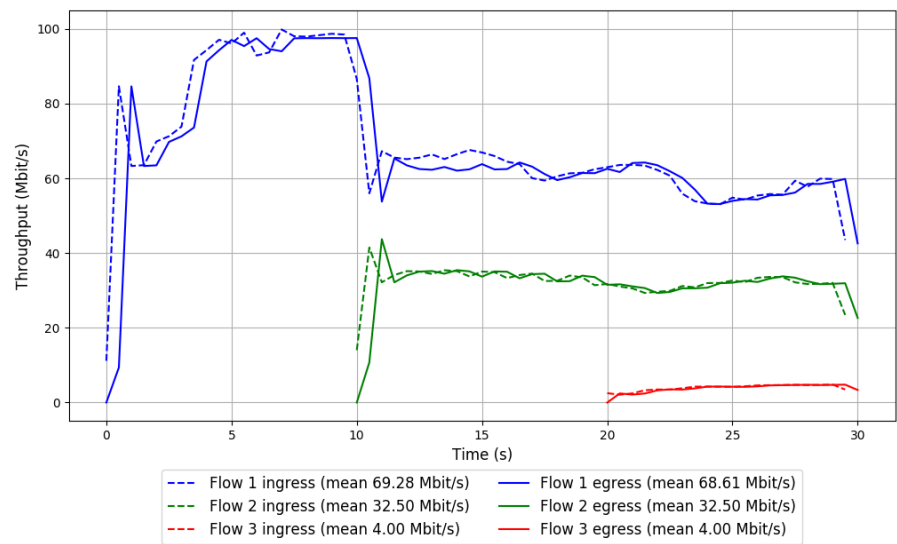


Run 9: Statistics of PCC-Allegro

Start at: 2018-05-22 18:19:22
End at: 2018-05-22 18:19:52
Local clock offset: 0.402 ms
Remote clock offset: -9.463 ms

Below is generated by plot.py at 2018-05-22 18:58:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.53 Mbit/s
95th percentile per-packet one-way delay: 30.663 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 68.61 Mbit/s
95th percentile per-packet one-way delay: 30.873 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 18.142 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 14.852 ms
Loss rate: 0.34%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-22 18:38:28

End at: 2018-05-22 18:38:58

Local clock offset: 0.158 ms

Remote clock offset: -0.46 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.74 Mbit/s

95th percentile per-packet one-way delay: 31.148 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 63.93 Mbit/s

95th percentile per-packet one-way delay: 31.313 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 33.43 Mbit/s

95th percentile per-packet one-way delay: 16.845 ms

Loss rate: 0.19%

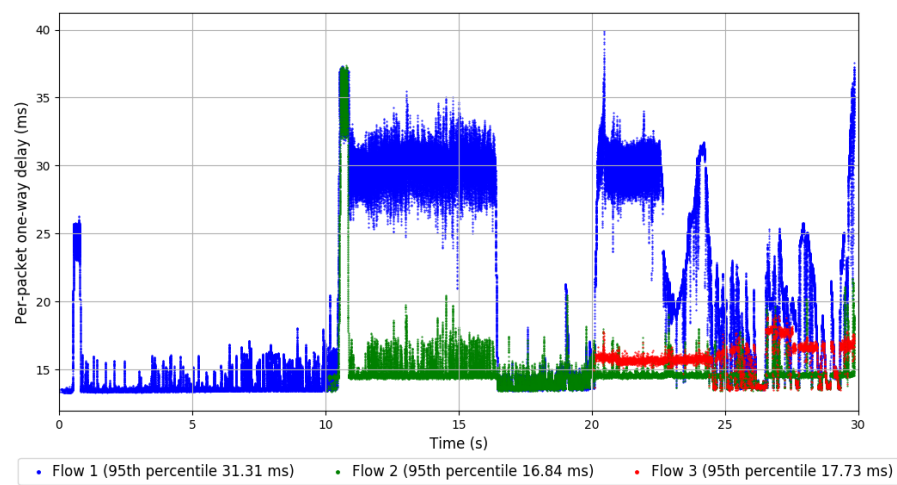
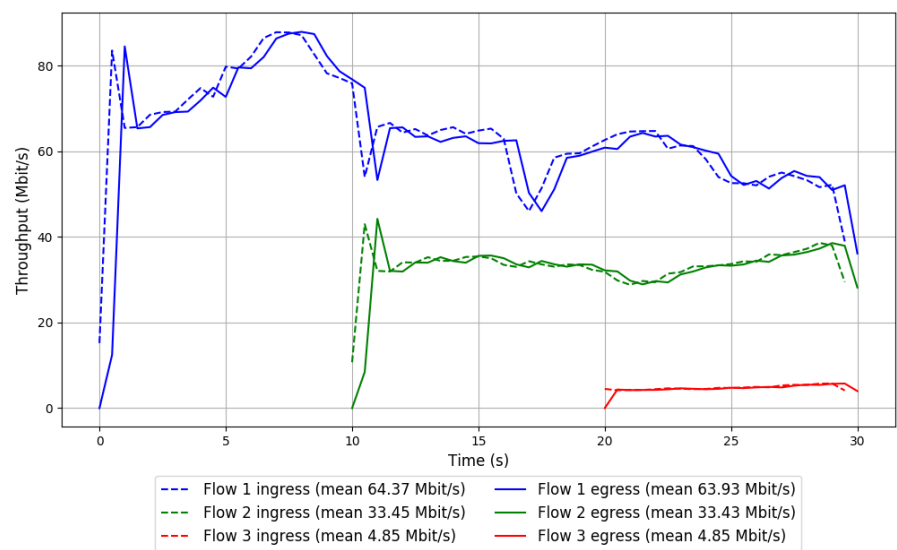
-- Flow 3:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 17.731 ms

Loss rate: 0.36%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-05-22 15:40:32

End at: 2018-05-22 15:41:02

Local clock offset: -2.394 ms

Remote clock offset: 6.156 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-05-22 16:00:06

End at: 2018-05-22 16:00:36

Local clock offset: 0.658 ms

Remote clock offset: 3.474 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-05-22 16:19:25

End at: 2018-05-22 16:19:55

Local clock offset: 3.089 ms

Remote clock offset: 1.268 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-05-22 16:39:03

End at: 2018-05-22 16:39:33

Local clock offset: 0.039 ms

Remote clock offset: 4.516 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-05-22 16:59:03

End at: 2018-05-22 16:59:33

Local clock offset: -4.7 ms

Remote clock offset: -2.605 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-05-22 17:18:54

End at: 2018-05-22 17:19:24

Local clock offset: -2.554 ms

Remote clock offset: -5.939 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-05-22 17:38:18

End at: 2018-05-22 17:38:48

Local clock offset: 0.83 ms

Remote clock offset: -3.231 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-05-22 17:57:44

End at: 2018-05-22 17:58:14

Local clock offset: -1.096 ms

Remote clock offset: -6.135 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-05-22 18:16:57

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

Local clock offset: 0.392 ms

Remote clock offset: -9.051 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-05-22 18:36:08

End at: 2018-05-22 18:36:38

Local clock offset: -0.101 ms

Remote clock offset: -2.176 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of QUIC Cubic

Start at: 2018-05-22 15:46:37

End at: 2018-05-22 15:47:07

Local clock offset: 2.112 ms

Remote clock offset: 4.224 ms

Below is generated by plot.py at 2018-05-22 18:59:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.17 Mbit/s

95th percentile per-packet one-way delay: 27.408 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 60.93 Mbit/s

95th percentile per-packet one-way delay: 27.169 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 35.48 Mbit/s

95th percentile per-packet one-way delay: 29.224 ms

Loss rate: 0.20%

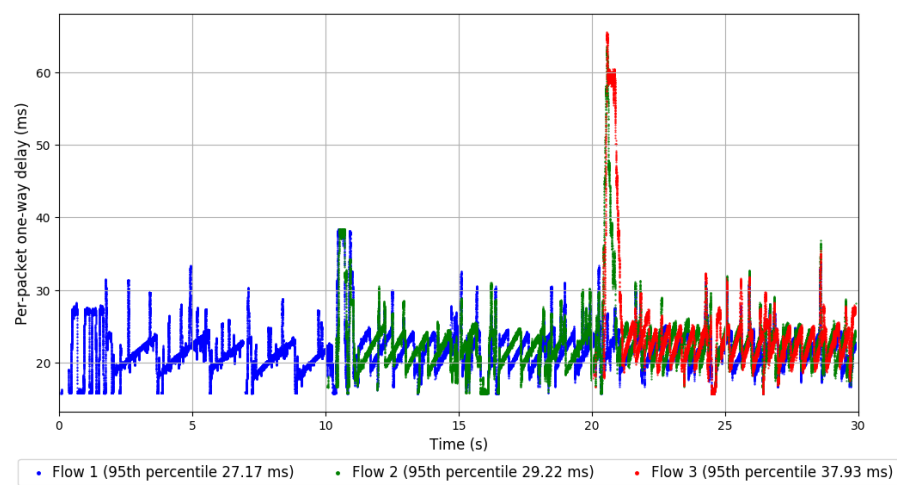
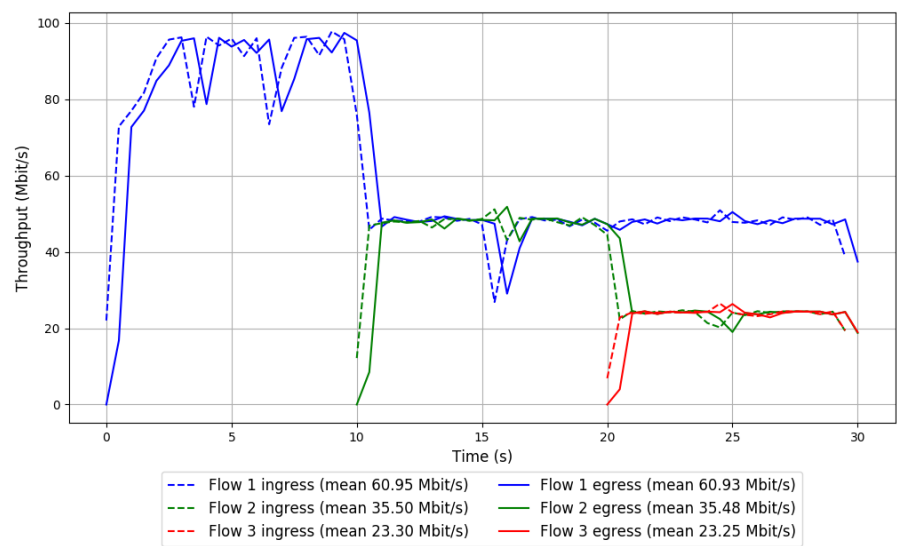
-- Flow 3:

Average throughput: 23.25 Mbit/s

95th percentile per-packet one-way delay: 37.929 ms

Loss rate: 0.52%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-22 16:06:03

End at: 2018-05-22 16:06:33

Local clock offset: -2.301 ms

Remote clock offset: 4.216 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.60 Mbit/s

95th percentile per-packet one-way delay: 23.208 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 21.303 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 35.39 Mbit/s

95th percentile per-packet one-way delay: 24.529 ms

Loss rate: 0.19%

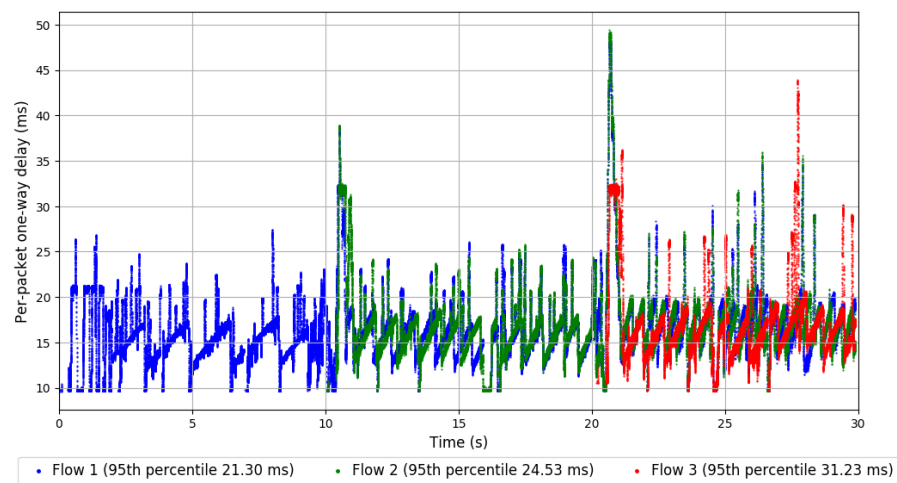
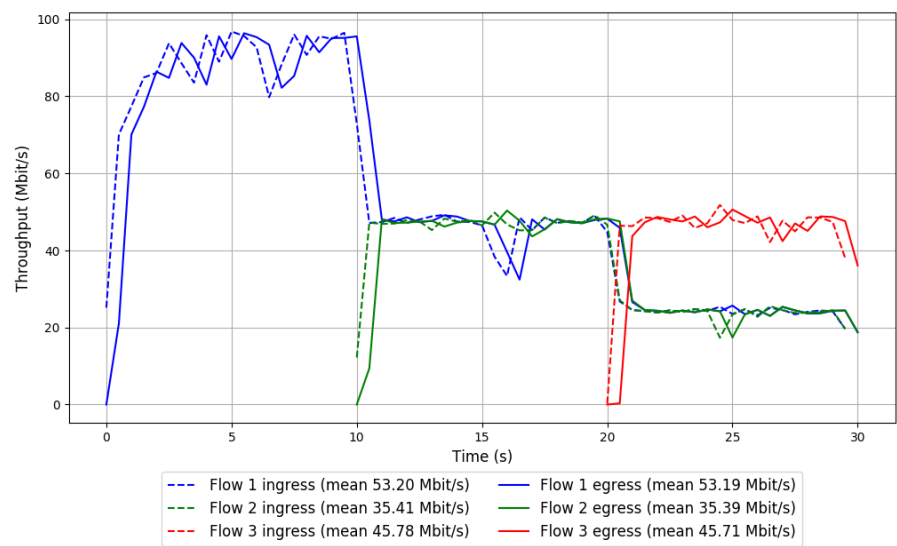
-- Flow 3:

Average throughput: 45.71 Mbit/s

95th percentile per-packet one-way delay: 31.230 ms

Loss rate: 0.42%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-22 16:25:27

End at: 2018-05-22 16:25:57

Local clock offset: -0.172 ms

Remote clock offset: 3.511 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.21 Mbit/s

95th percentile per-packet one-way delay: 24.796 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 53.63 Mbit/s

95th percentile per-packet one-way delay: 24.341 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 35.48 Mbit/s

95th percentile per-packet one-way delay: 28.077 ms

Loss rate: 0.18%

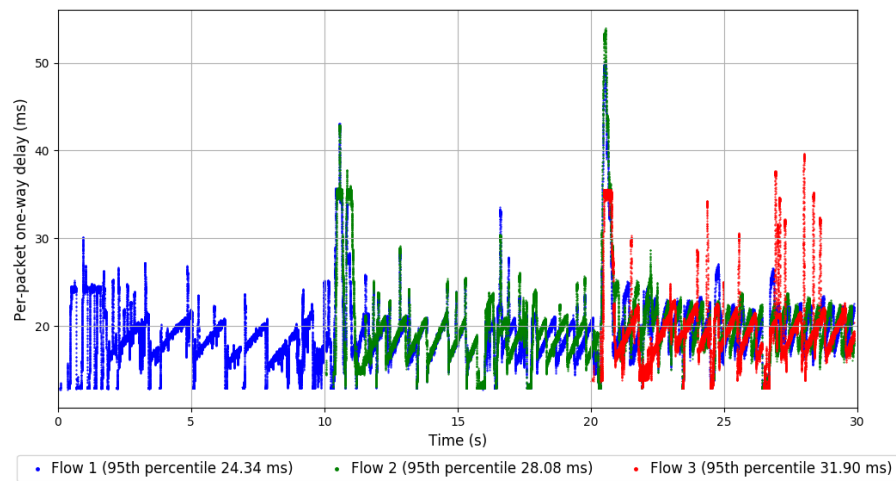
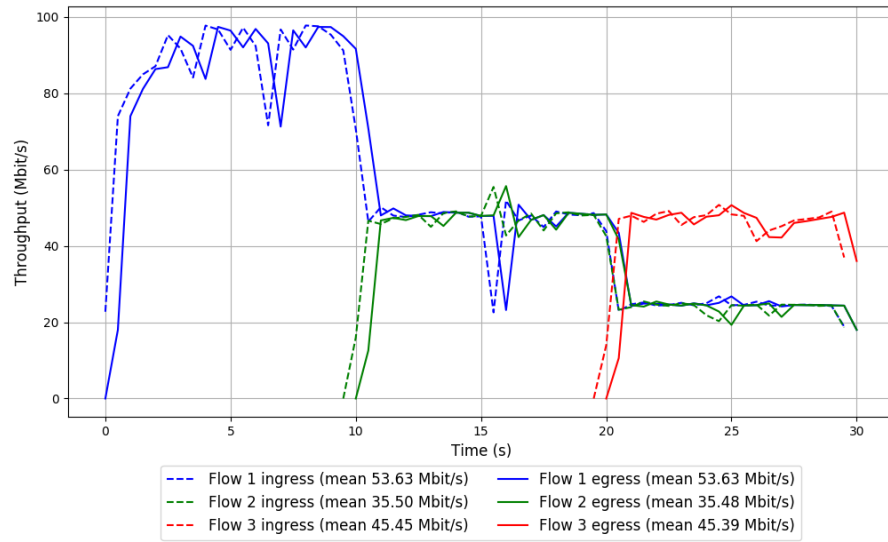
-- Flow 3:

Average throughput: 45.39 Mbit/s

95th percentile per-packet one-way delay: 31.898 ms

Loss rate: 0.38%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-22 16:45:00

End at: 2018-05-22 16:45:30

Local clock offset: -5.425 ms

Remote clock offset: 3.83 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.03 Mbit/s

95th percentile per-packet one-way delay: 20.238 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 54.18 Mbit/s

95th percentile per-packet one-way delay: 20.220 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 36.05 Mbit/s

95th percentile per-packet one-way delay: 20.644 ms

Loss rate: 0.20%

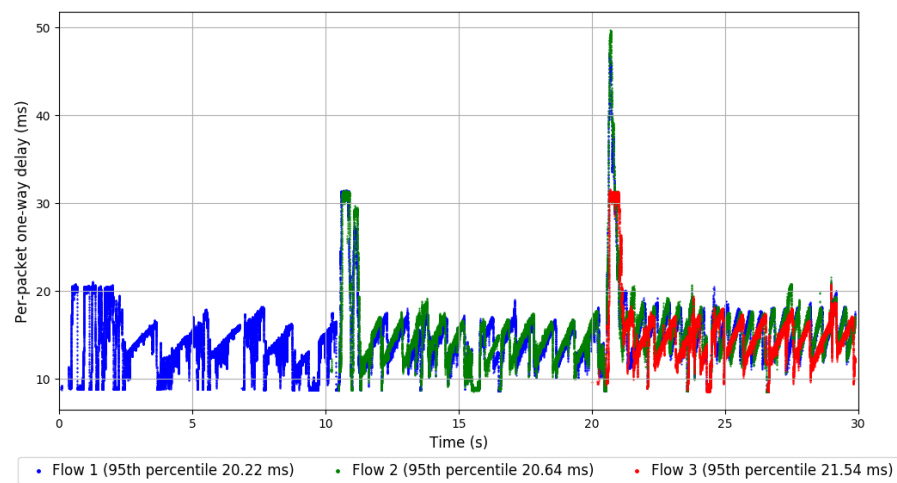
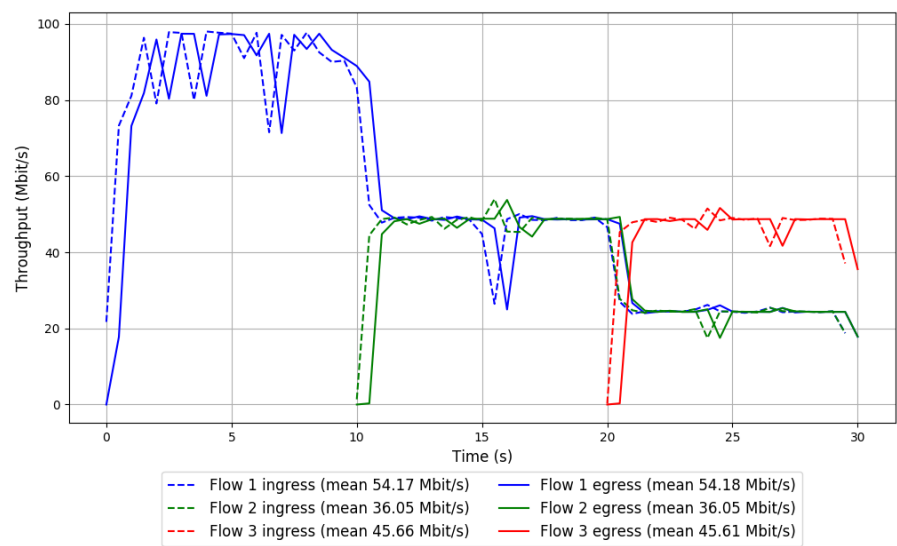
-- Flow 3:

Average throughput: 45.61 Mbit/s

95th percentile per-packet one-way delay: 21.535 ms

Loss rate: 0.38%

Run 4: Report of QUIC Cubic — Data Link

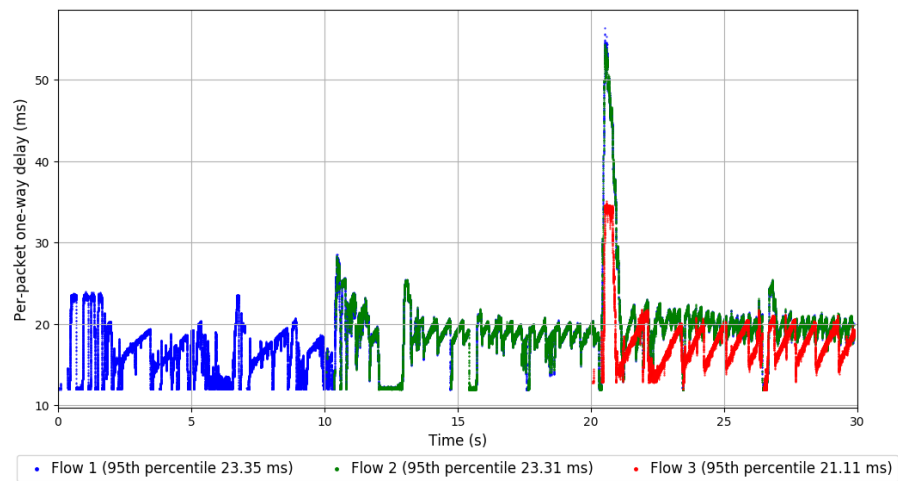
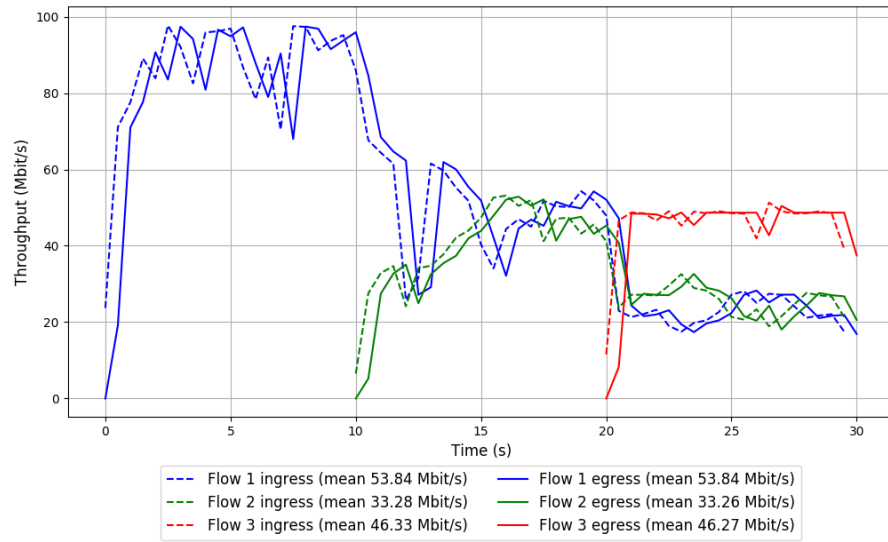


Run 5: Statistics of QUIC Cubic

Start at: 2018-05-22 17:05:11
End at: 2018-05-22 17:05:41
Local clock offset: -4.039 ms
Remote clock offset: -4.715 ms

Below is generated by plot.py at 2018-05-22 19:00:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.22 Mbit/s
95th percentile per-packet one-way delay: 23.330 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 53.84 Mbit/s
95th percentile per-packet one-way delay: 23.350 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 33.26 Mbit/s
95th percentile per-packet one-way delay: 23.308 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 46.27 Mbit/s
95th percentile per-packet one-way delay: 21.114 ms
Loss rate: 0.41%

Run 5: Report of QUIC Cubic — Data Link

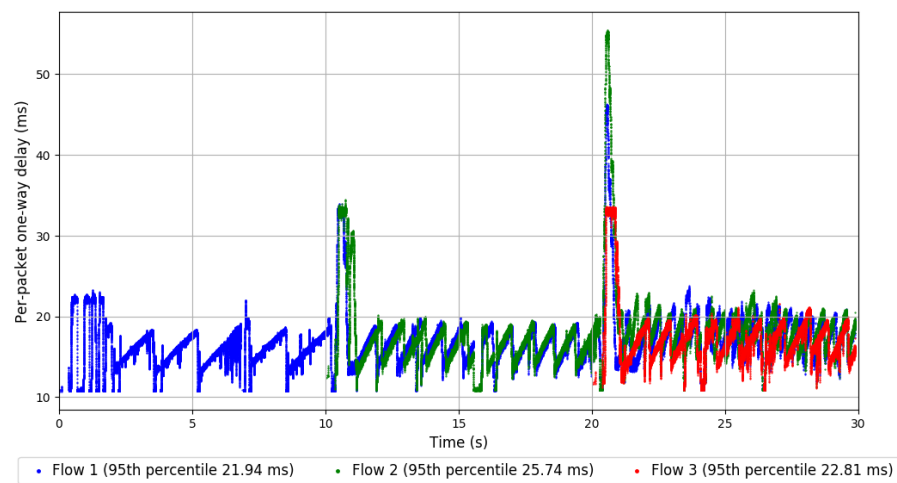
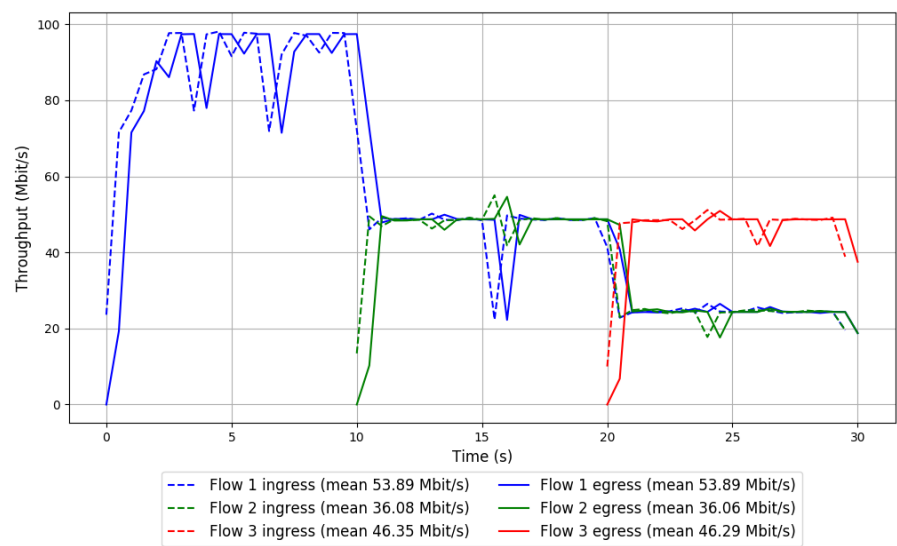


Run 6: Statistics of QUIC Cubic

Start at: 2018-05-22 17:25:00
End at: 2018-05-22 17:25:30
Local clock offset: -5.177 ms
Remote clock offset: -3.862 ms

Below is generated by plot.py at 2018-05-22 19:00:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.12 Mbit/s
95th percentile per-packet one-way delay: 22.019 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 53.89 Mbit/s
95th percentile per-packet one-way delay: 21.942 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 36.06 Mbit/s
95th percentile per-packet one-way delay: 25.744 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 46.29 Mbit/s
95th percentile per-packet one-way delay: 22.812 ms
Loss rate: 0.40%

Run 6: Report of QUIC Cubic — Data Link

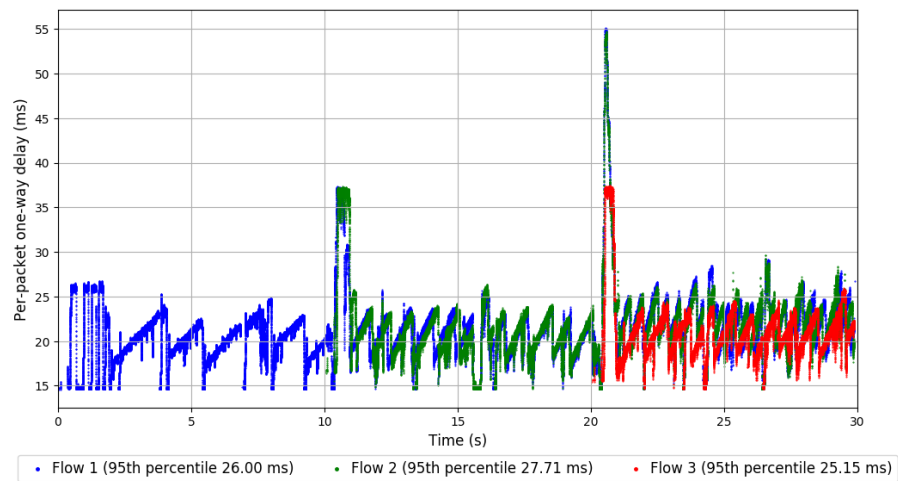
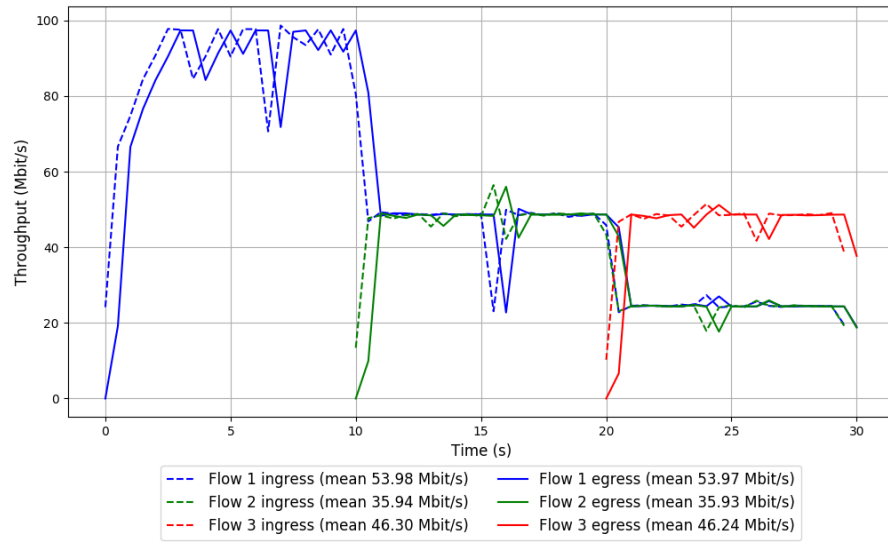


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-22 17:44:09
End at: 2018-05-22 17:44:39
Local clock offset: 1.538 ms
Remote clock offset: -2.999 ms

Below is generated by plot.py at 2018-05-22 19:00:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.10 Mbit/s
95th percentile per-packet one-way delay: 26.003 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 53.97 Mbit/s
95th percentile per-packet one-way delay: 25.996 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 35.93 Mbit/s
95th percentile per-packet one-way delay: 27.709 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 46.24 Mbit/s
95th percentile per-packet one-way delay: 25.149 ms
Loss rate: 0.41%

Run 7: Report of QUIC Cubic — Data Link

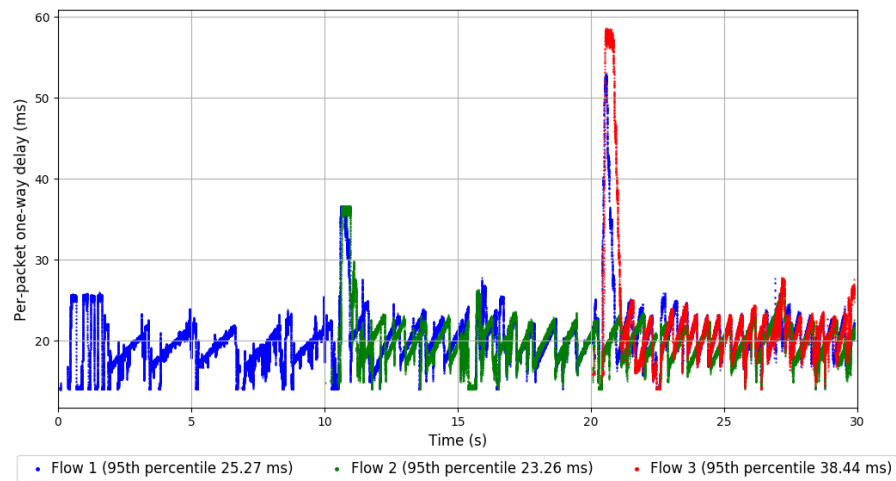
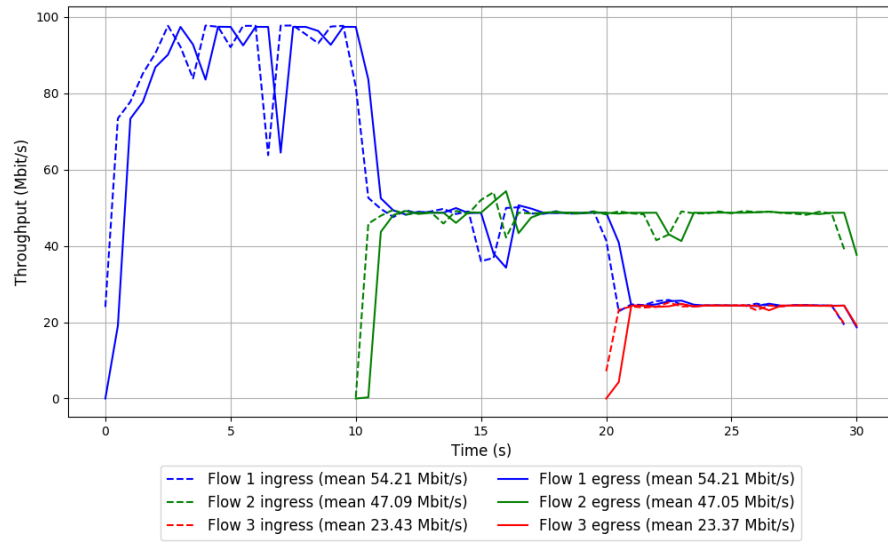


Run 8: Statistics of QUIC Cubic

Start at: 2018-05-22 18:03:40
End at: 2018-05-22 18:04:10
Local clock offset: 1.022 ms
Remote clock offset: -7.218 ms

Below is generated by plot.py at 2018-05-22 19:00:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.18 Mbit/s
95th percentile per-packet one-way delay: 25.221 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 54.21 Mbit/s
95th percentile per-packet one-way delay: 25.266 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 47.05 Mbit/s
95th percentile per-packet one-way delay: 23.262 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 23.37 Mbit/s
95th percentile per-packet one-way delay: 38.436 ms
Loss rate: 0.51%

Run 8: Report of QUIC Cubic — Data Link

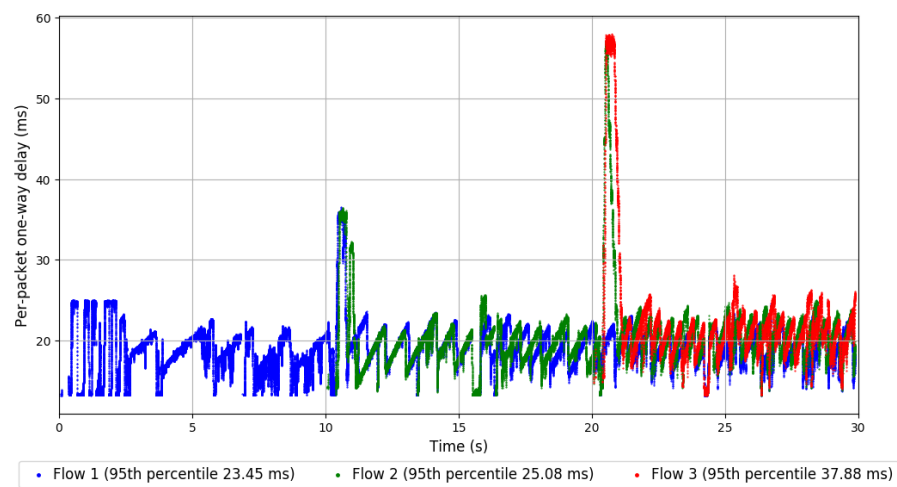
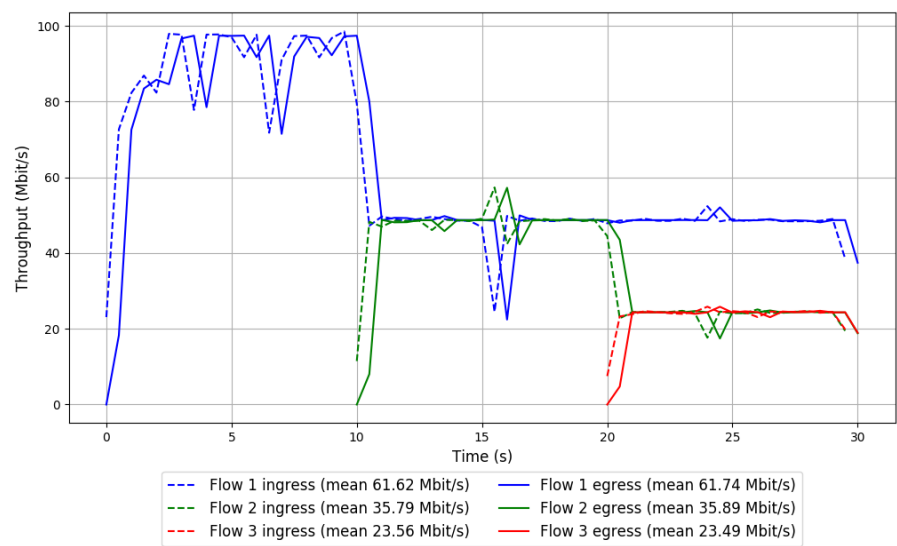


Run 9: Statistics of QUIC Cubic

Start at: 2018-05-22 18:22:52
End at: 2018-05-22 18:23:22
Local clock offset: 0.261 ms
Remote clock offset: -9.496 ms

Below is generated by plot.py at 2018-05-22 19:01:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 24.558 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 61.74 Mbit/s
95th percentile per-packet one-way delay: 23.449 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 35.89 Mbit/s
95th percentile per-packet one-way delay: 25.082 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 37.882 ms
Loss rate: 0.55%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-22 18:42:00

End at: 2018-05-22 18:42:30

Local clock offset: -0.054 ms

Remote clock offset: 0.935 ms

Below is generated by plot.py at 2018-05-22 19:01:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.38 Mbit/s

95th percentile per-packet one-way delay: 24.238 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 61.86 Mbit/s

95th percentile per-packet one-way delay: 23.195 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 35.77 Mbit/s

95th percentile per-packet one-way delay: 27.963 ms

Loss rate: 0.19%

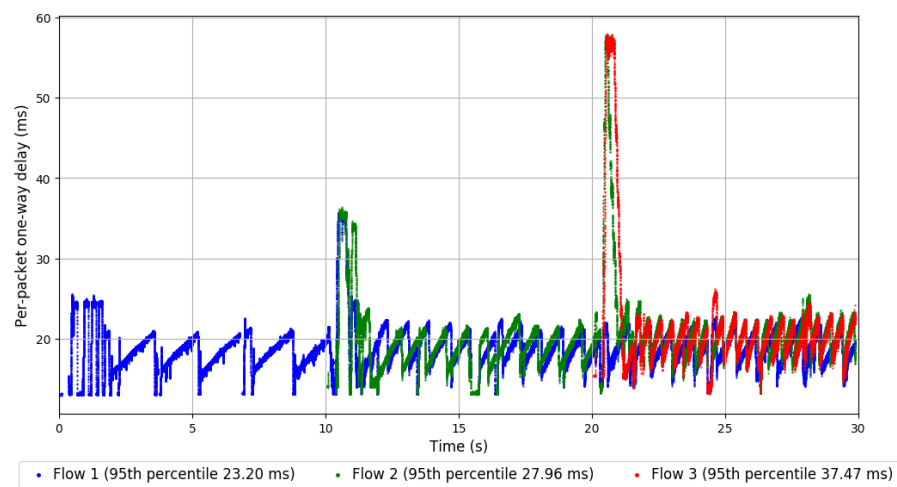
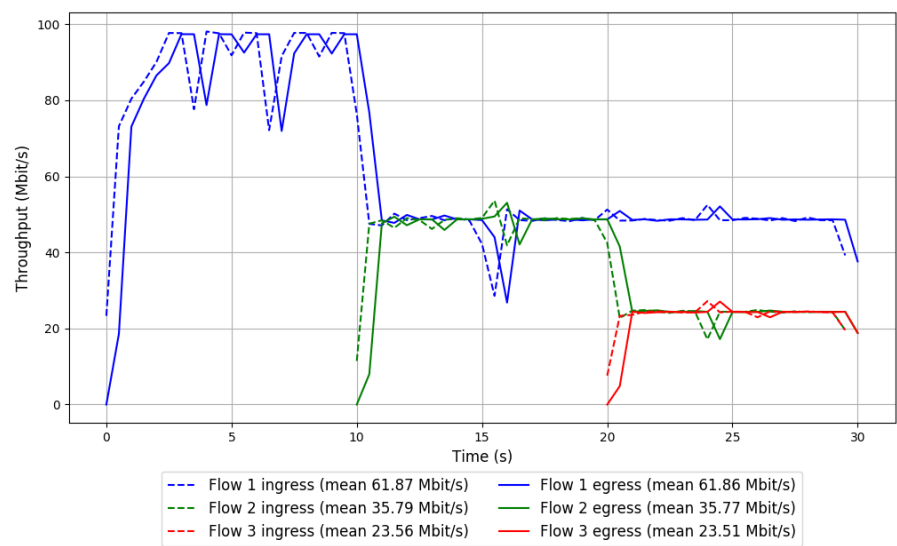
-- Flow 3:

Average throughput: 23.51 Mbit/s

95th percentile per-packet one-way delay: 37.465 ms

Loss rate: 0.50%

Run 10: Report of QUIC Cubic — Data Link

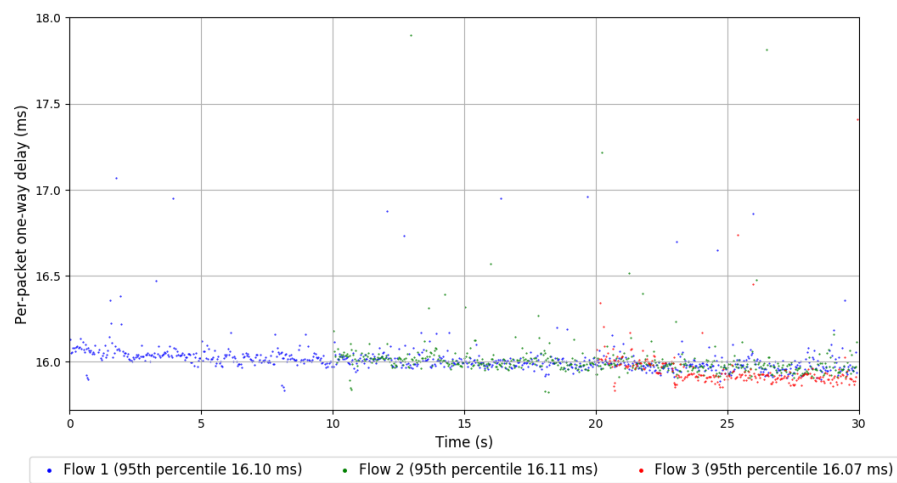
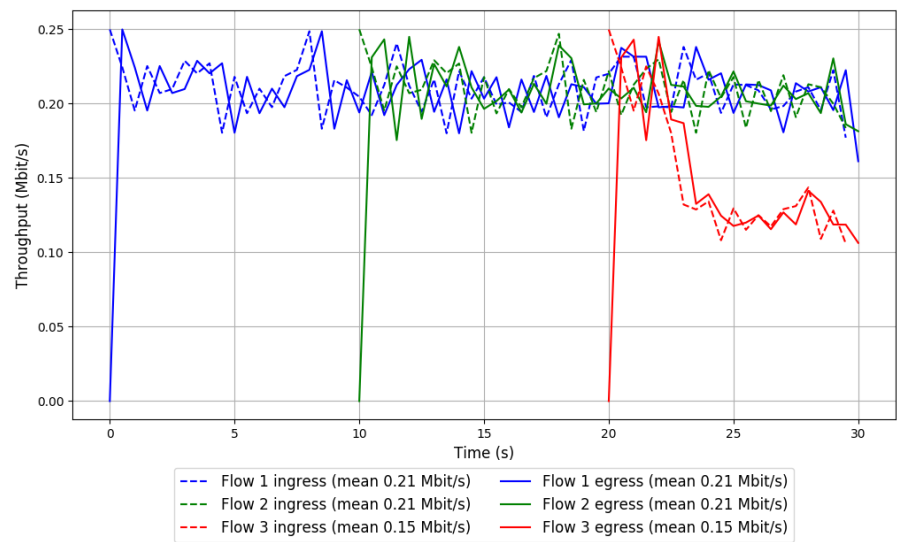


```
Run 1: Statistics of SCReAM

Start at: 2018-05-22 15:45:32
End at: 2018-05-22 15:46:02
Local clock offset: 2.047 ms
Remote clock offset: 4.19 ms

# Below is generated by plot.py at 2018-05-22 19:01:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 16.097 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.099 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.108 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 16.069 ms
Loss rate: 0.30%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

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

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

Local clock offset: -2.682 ms

Remote clock offset: 3.643 ms

Below is generated by plot.py at 2018-05-22 19:01:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 16.749 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 16.717 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 16.795 ms

Loss rate: 0.19%

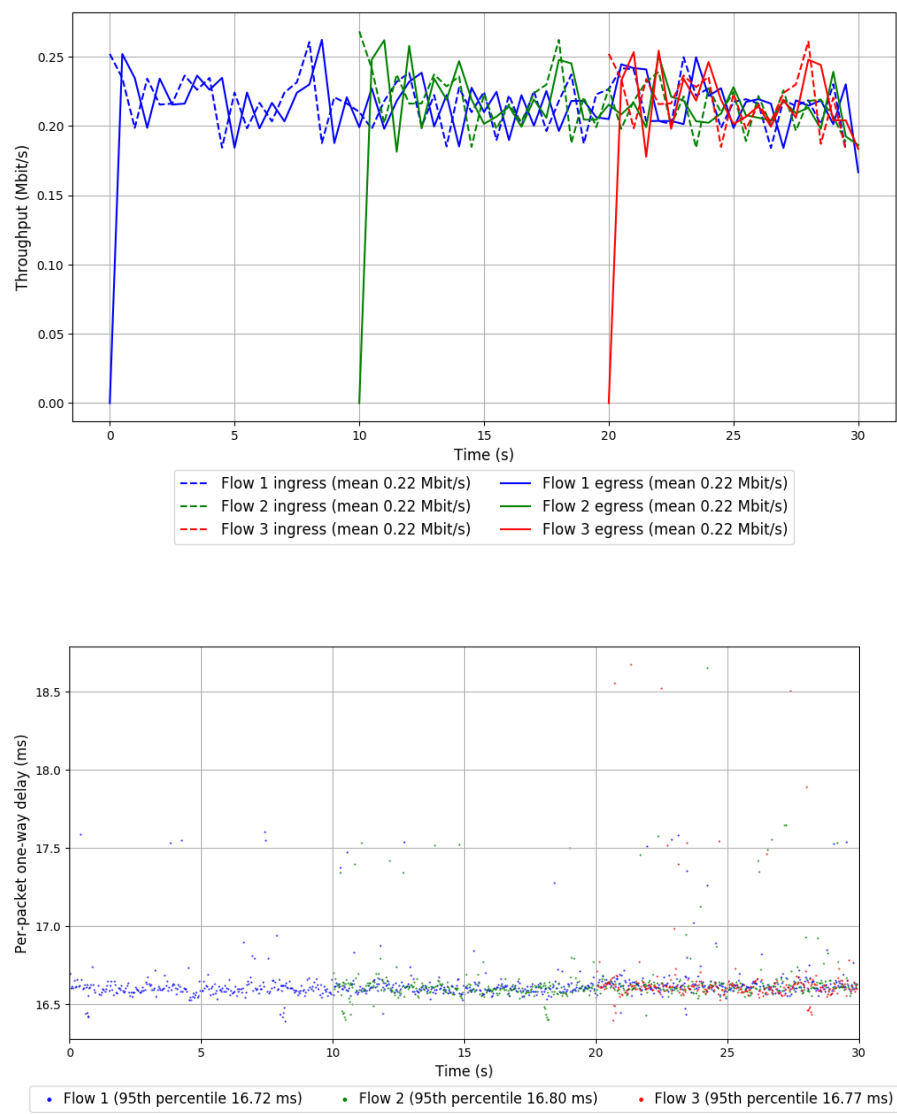
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 16.773 ms

Loss rate: 0.35%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-05-22 16:24:23

End at: 2018-05-22 16:24:53

Local clock offset: 0.05 ms

Remote clock offset: 4.445 ms

Below is generated by plot.py at 2018-05-22 19:01:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 12.337 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 12.337 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 12.323 ms

Loss rate: 0.19%

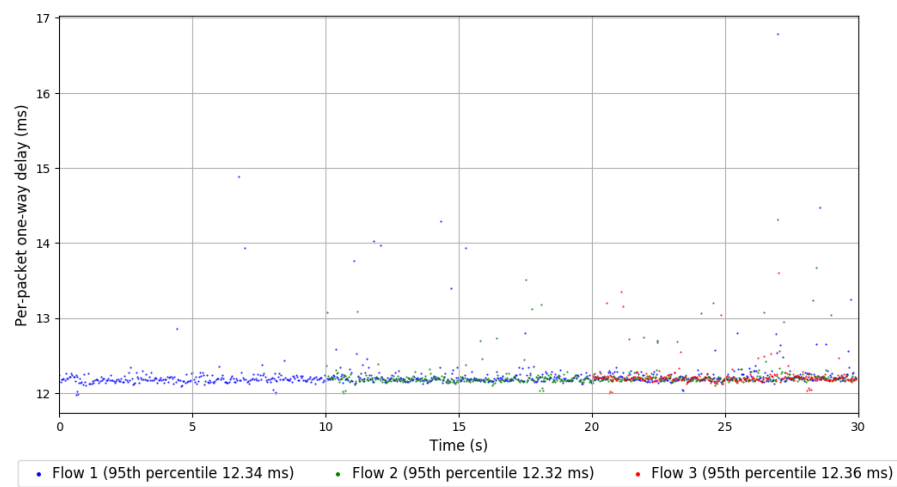
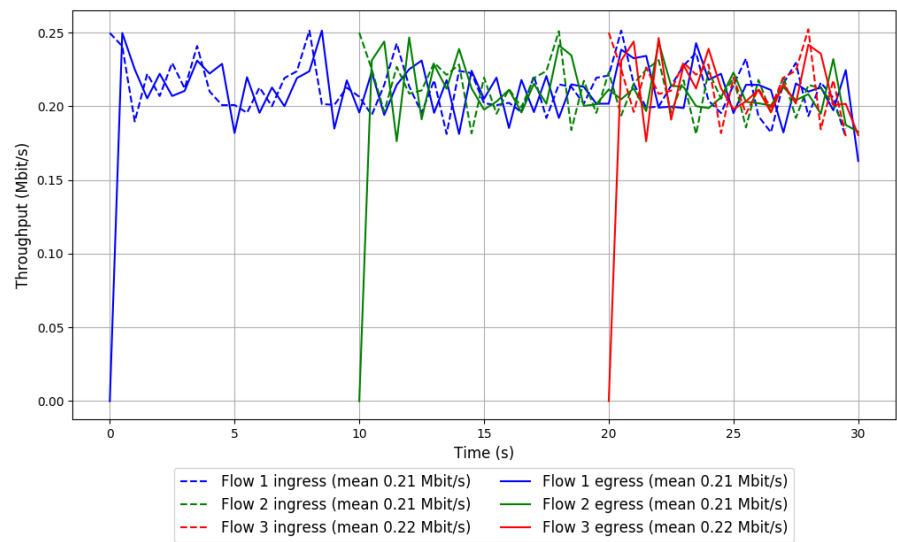
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 12.360 ms

Loss rate: 0.35%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-05-22 16:43:55

End at: 2018-05-22 16:44:25

Local clock offset: -1.189 ms

Remote clock offset: 3.151 ms

Below is generated by plot.py at 2018-05-22 19:01:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 14.740 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.772 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.612 ms

Loss rate: 0.19%

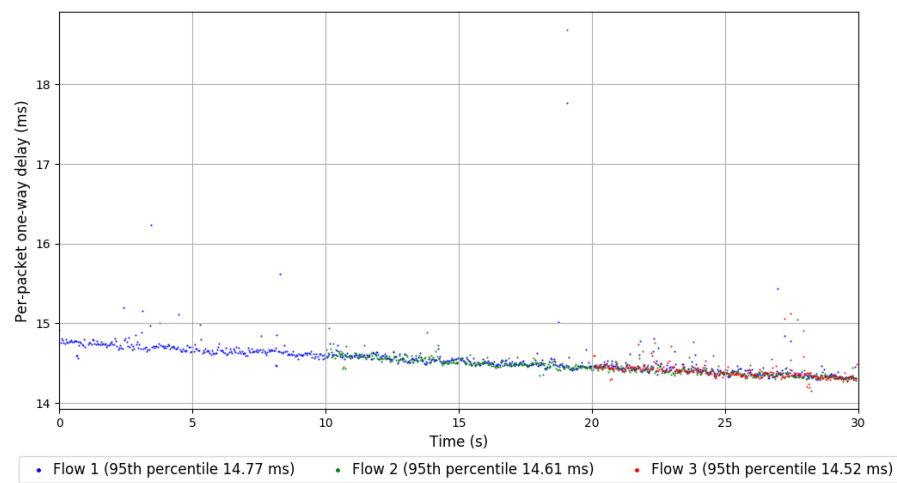
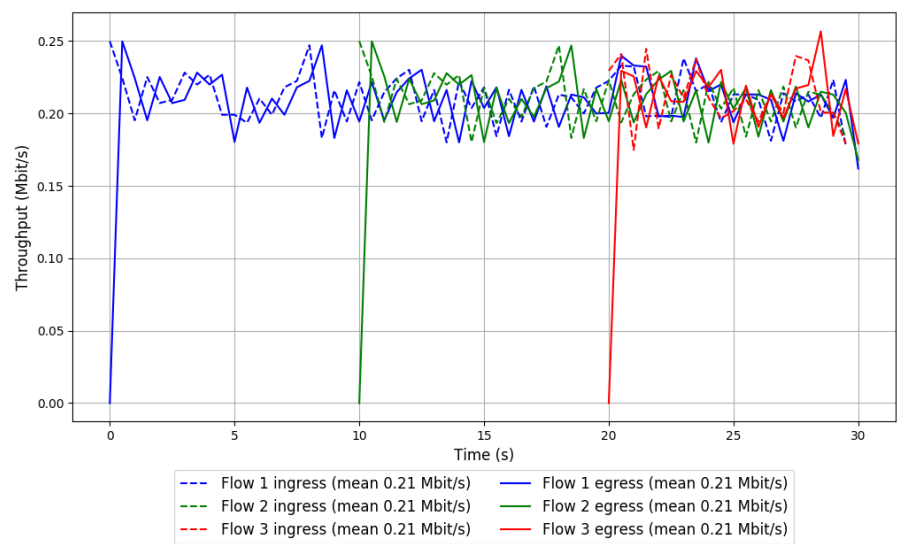
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.520 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

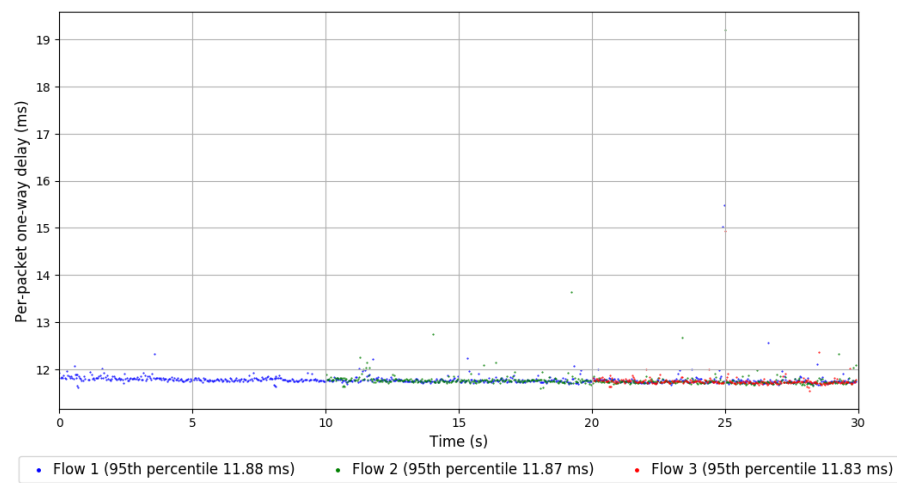
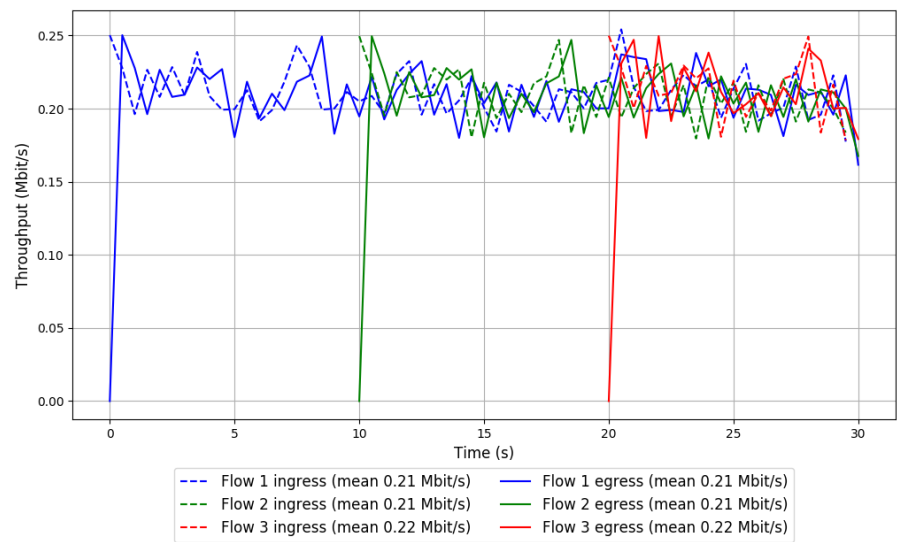


Run 5: Statistics of SReAM

Start at: 2018-05-22 17:04:06
End at: 2018-05-22 17:04:36
Local clock offset: -4.089 ms
Remote clock offset: -4.307 ms

Below is generated by plot.py at 2018-05-22 19:01:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 11.872 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.882 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.871 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 11.833 ms
Loss rate: 0.35%

Run 5: Report of SReAM — Data Link

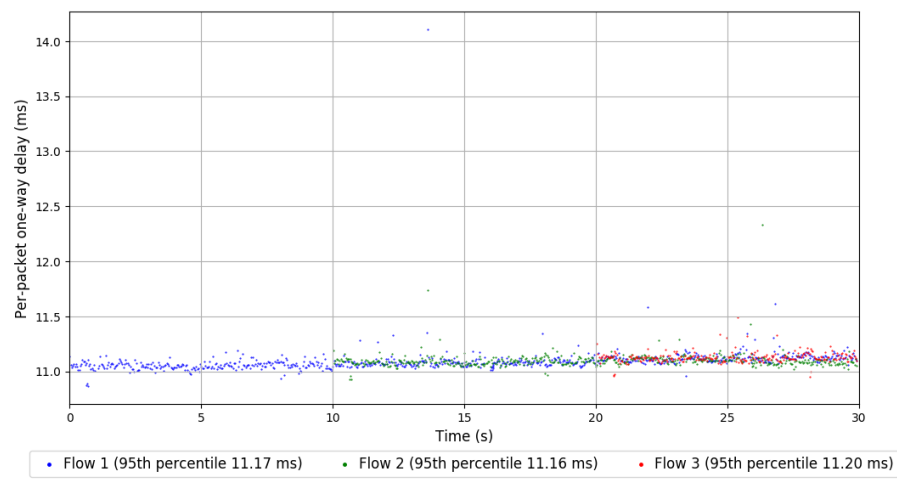
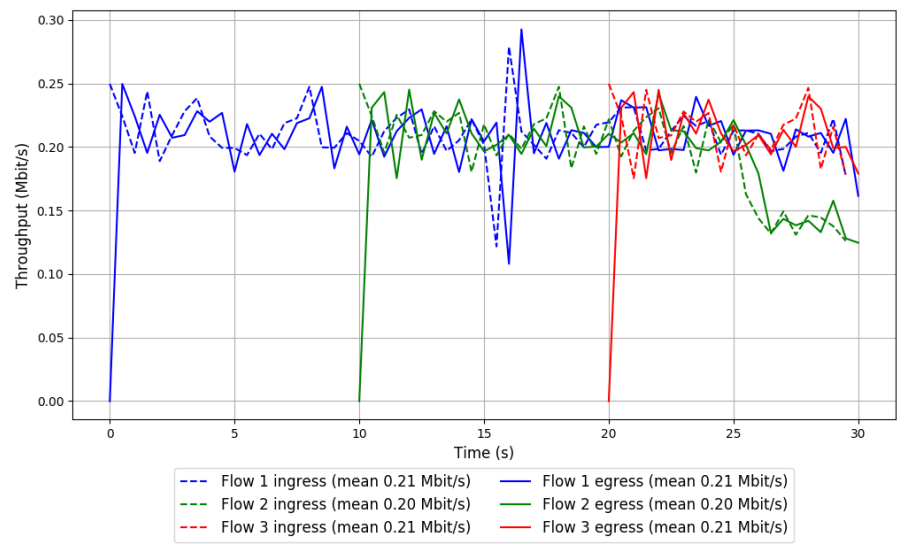


Run 6: Statistics of SReAM

Start at: 2018-05-22 17:23:55
End at: 2018-05-22 17:24:25
Local clock offset: -5.137 ms
Remote clock offset: -4.213 ms

Below is generated by plot.py at 2018-05-22 19:01:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 11.171 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.166 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 11.156 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.202 ms
Loss rate: 0.36%

Run 6: Report of SReAM — Data Link

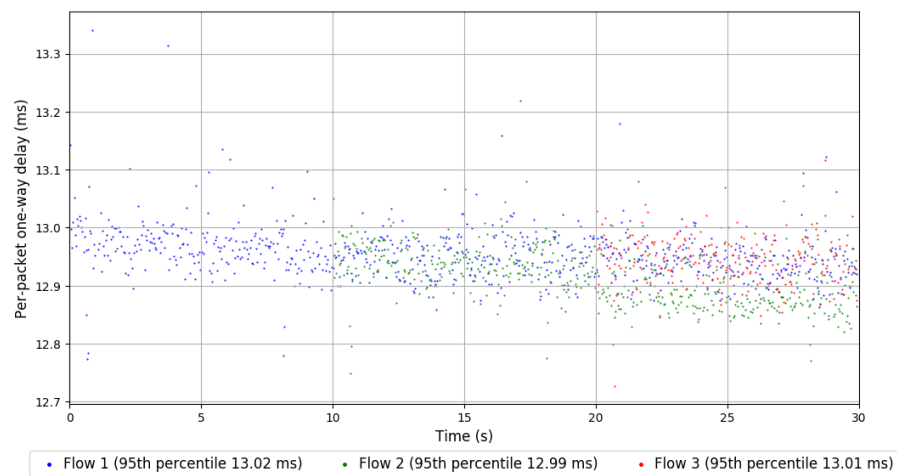
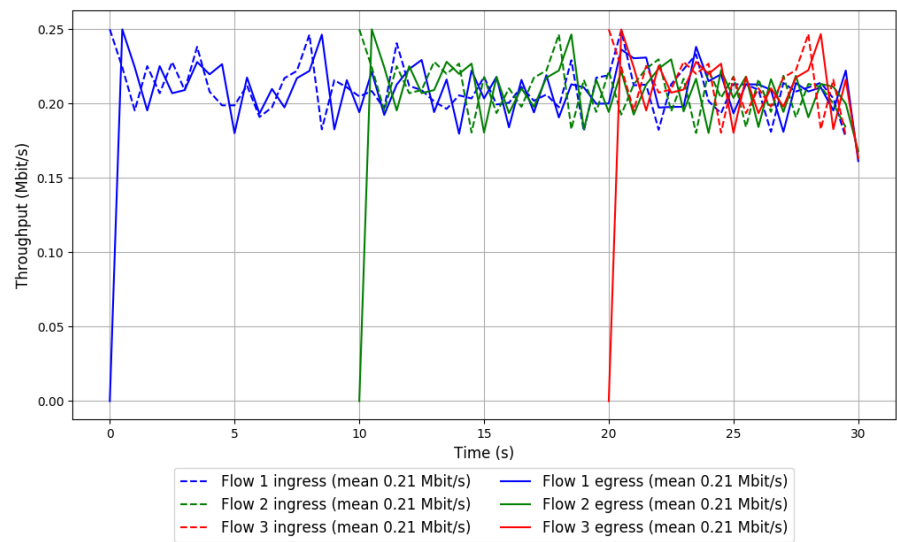


Run 7: Statistics of SReAM

Start at: 2018-05-22 17:43:04
End at: 2018-05-22 17:43:34
Local clock offset: -0.618 ms
Remote clock offset: -3.275 ms

Below is generated by plot.py at 2018-05-22 19:01:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 13.009 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.016 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 12.991 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.006 ms
Loss rate: 0.36%

Run 7: Report of SCReAM — Data Link

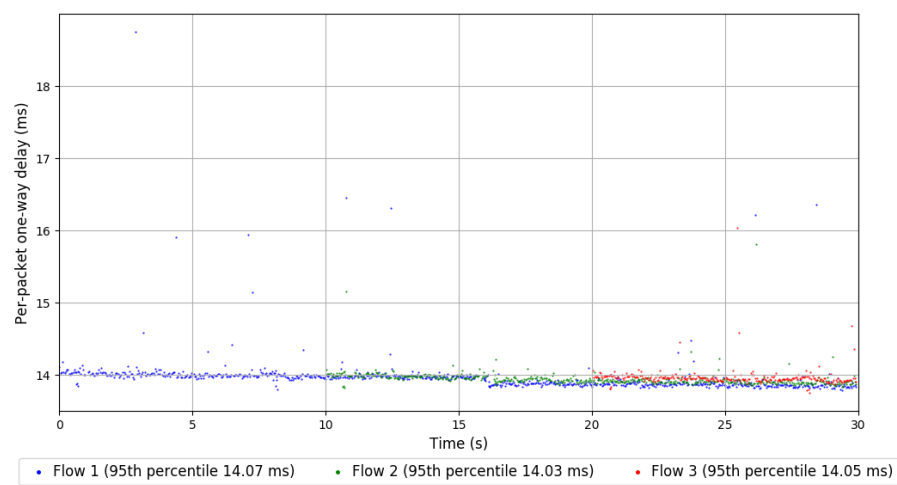
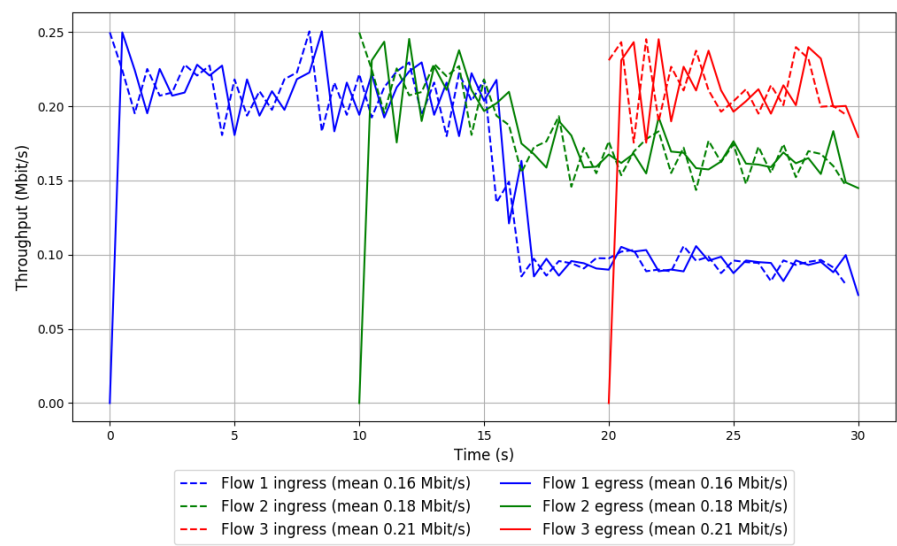


Run 8: Statistics of SCReAM

Start at: 2018-05-22 18:02:35
End at: 2018-05-22 18:03:05
Local clock offset: 0.512 ms
Remote clock offset: -7.446 ms

Below is generated by plot.py at 2018-05-22 19:01:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 14.055 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 14.071 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 14.034 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 14.047 ms
Loss rate: 0.35%

Run 8: Report of SReAM — Data Link

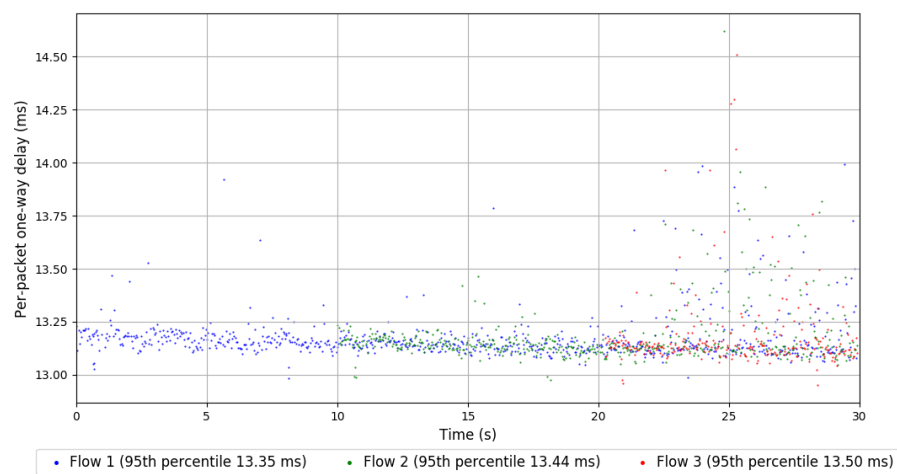
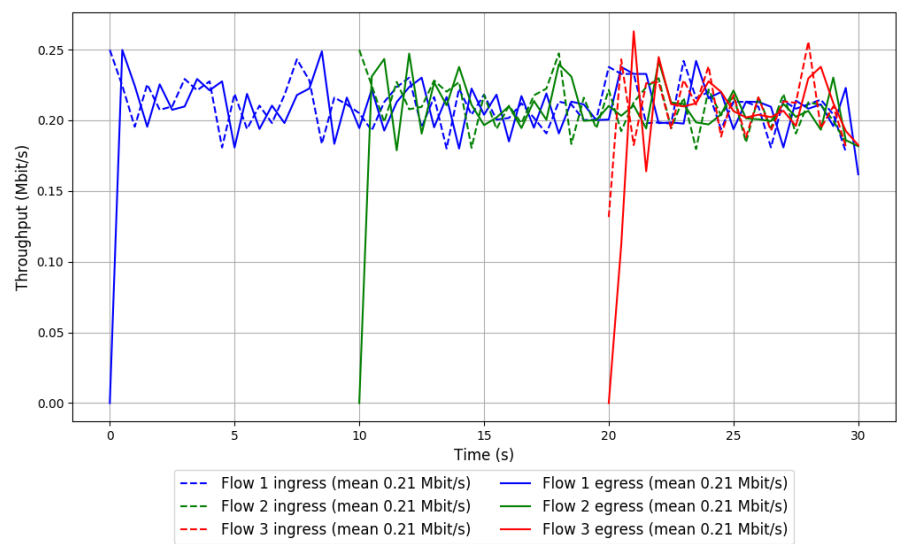


Run 9: Statistics of SReAM

Start at: 2018-05-22 18:21:46
End at: 2018-05-22 18:22:16
Local clock offset: -0.467 ms
Remote clock offset: -9.924 ms

Below is generated by plot.py at 2018-05-22 19:01:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 13.426 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.354 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.444 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.496 ms
Loss rate: 0.40%

Run 9: Report of SReAM — Data Link

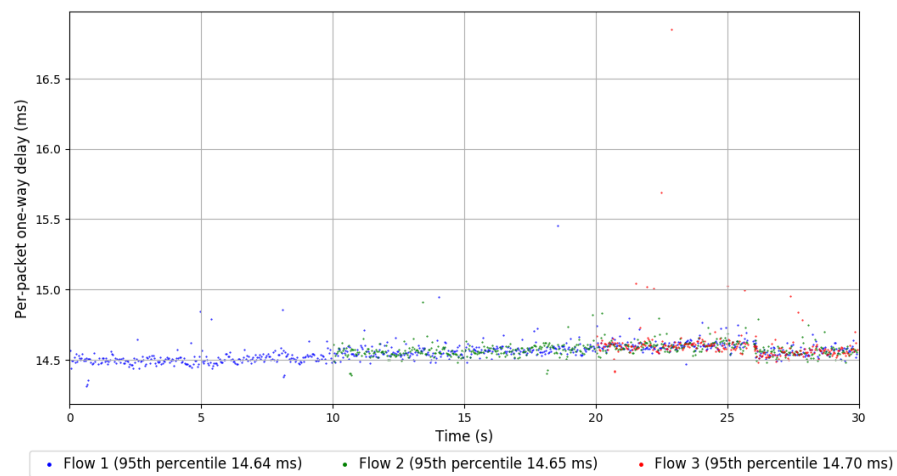
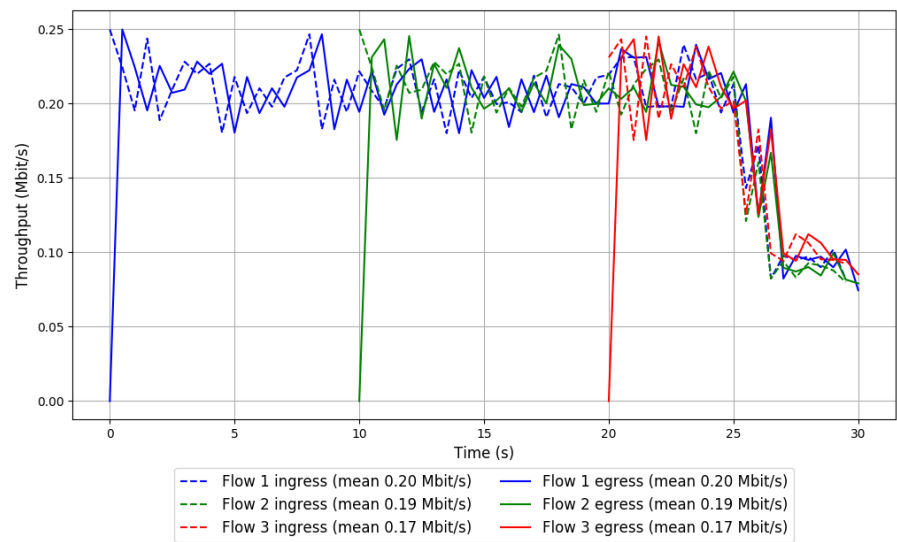


Run 10: Statistics of SCReAM

Start at: 2018-05-22 18:40:55
End at: 2018-05-22 18:41:25
Local clock offset: 0.564 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2018-05-22 19:01:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 14.649 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 14.636 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 14.649 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 14.697 ms
Loss rate: 0.21%

Run 10: Report of SReAM — Data Link

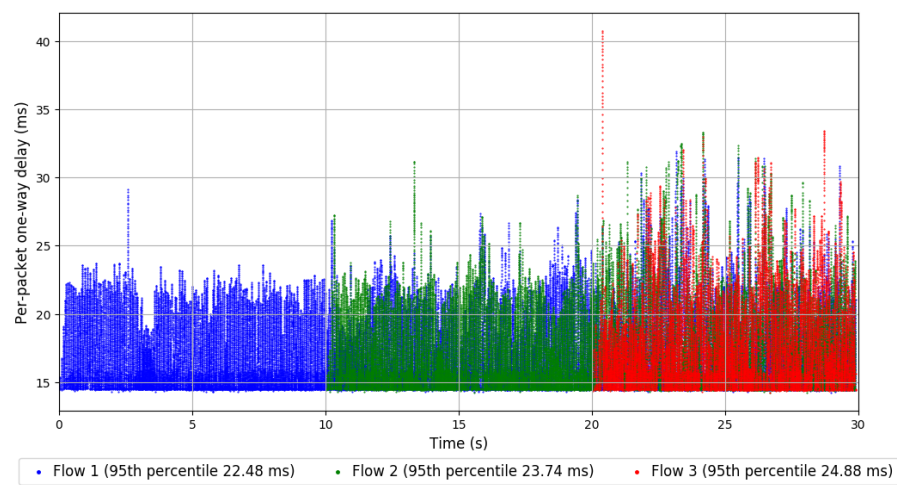
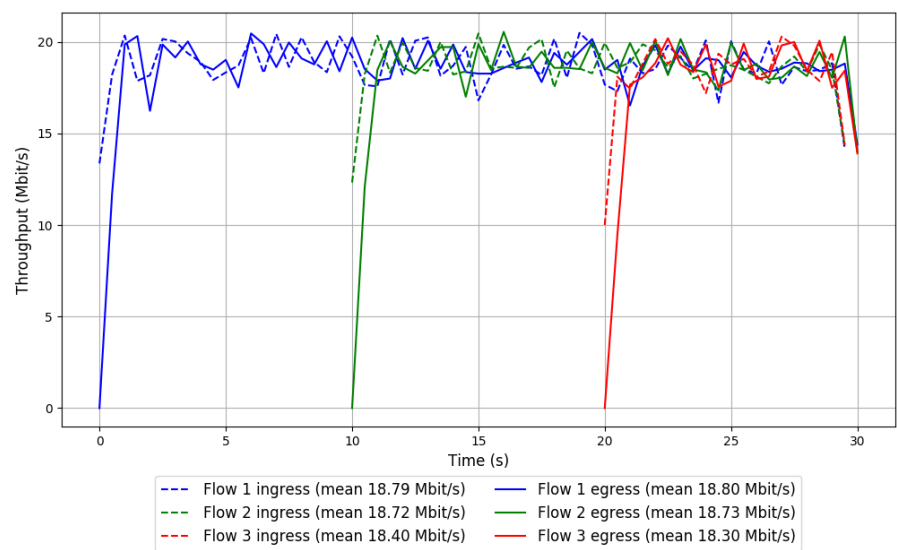


Run 1: Statistics of Sprout

Start at: 2018-05-22 15:49:05
End at: 2018-05-22 15:49:35
Local clock offset: -0.966 ms
Remote clock offset: 2.218 ms

Below is generated by plot.py at 2018-05-22 19:01:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.28 Mbit/s
95th percentile per-packet one-way delay: 23.352 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 18.80 Mbit/s
95th percentile per-packet one-way delay: 22.478 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 18.73 Mbit/s
95th percentile per-packet one-way delay: 23.741 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 18.30 Mbit/s
95th percentile per-packet one-way delay: 24.875 ms
Loss rate: 0.54%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-22 16:08:37

End at: 2018-05-22 16:09:07

Local clock offset: 0.769 ms

Remote clock offset: 3.156 ms

Below is generated by plot.py at 2018-05-22 19:01:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.83 Mbit/s

95th percentile per-packet one-way delay: 24.979 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 19.10 Mbit/s

95th percentile per-packet one-way delay: 23.503 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 19.01 Mbit/s

95th percentile per-packet one-way delay: 25.271 ms

Loss rate: 0.10%

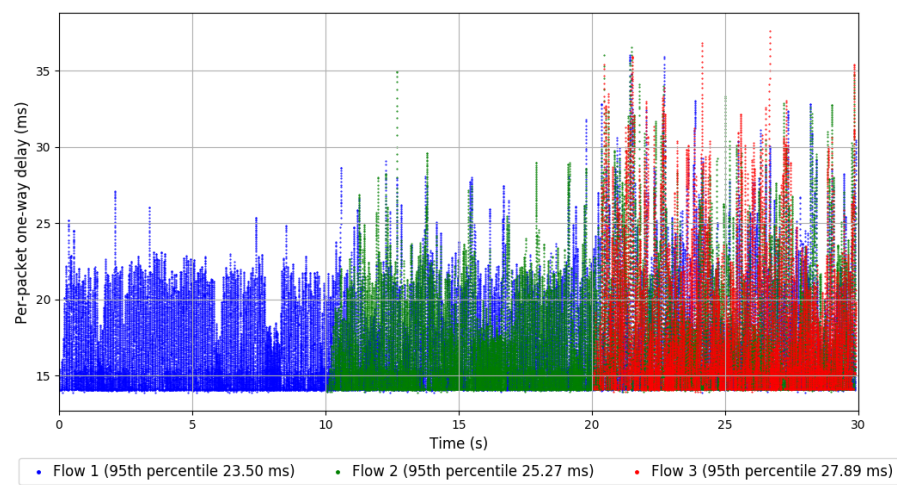
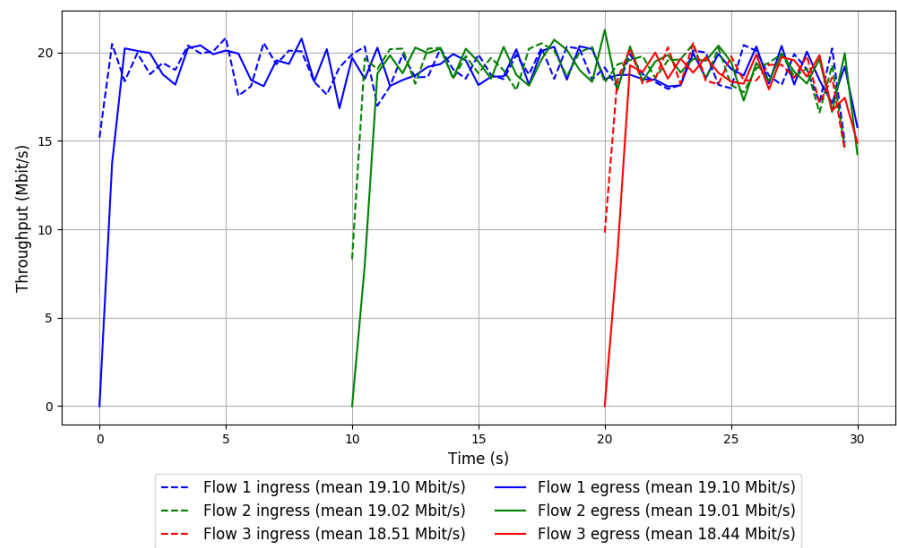
-- Flow 3:

Average throughput: 18.44 Mbit/s

95th percentile per-packet one-way delay: 27.895 ms

Loss rate: 0.31%

Run 2: Report of Sprout — Data Link

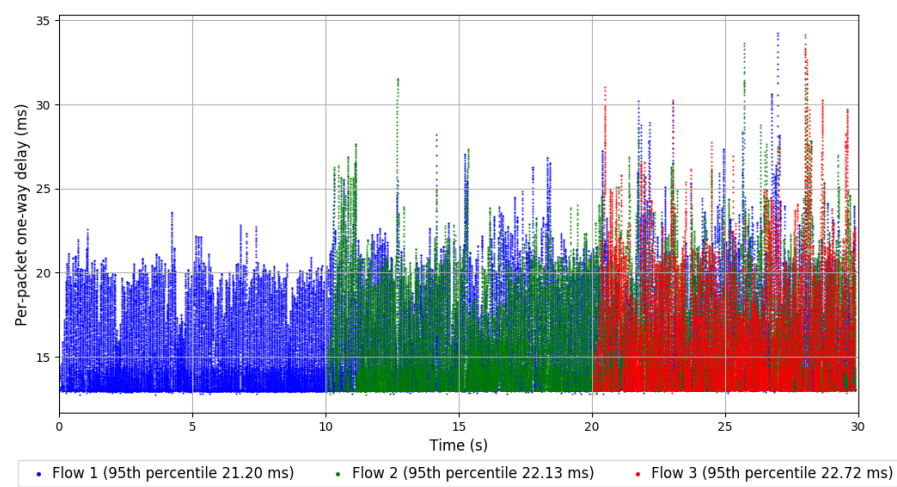
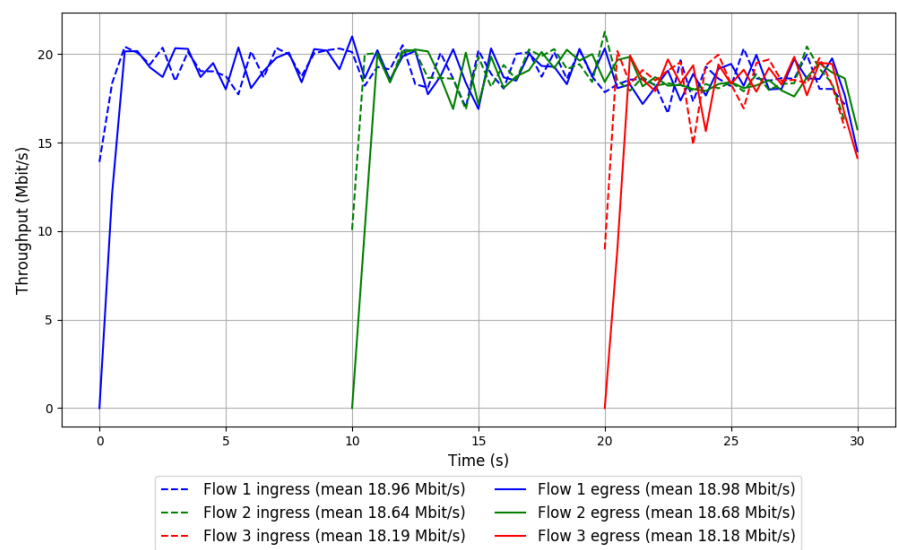


Run 3: Statistics of Sprout

Start at: 2018-05-22 16:28:04
End at: 2018-05-22 16:28:34
Local clock offset: -0.766 ms
Remote clock offset: 4.904 ms

```
# Below is generated by plot.py at 2018-05-22 19:01:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.37 Mbit/s
95th percentile per-packet one-way delay: 21.735 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 18.98 Mbit/s
95th percentile per-packet one-way delay: 21.200 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 18.68 Mbit/s
95th percentile per-packet one-way delay: 22.127 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 18.18 Mbit/s
95th percentile per-packet one-way delay: 22.719 ms
Loss rate: 1.02%
```

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-05-22 16:47:40

End at: 2018-05-22 16:48:10

Local clock offset: 1.081 ms

Remote clock offset: 1.838 ms

Below is generated by plot.py at 2018-05-22 19:01:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.36 Mbit/s

95th percentile per-packet one-way delay: 24.481 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 18.66 Mbit/s

95th percentile per-packet one-way delay: 23.877 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 18.71 Mbit/s

95th percentile per-packet one-way delay: 24.893 ms

Loss rate: 0.05%

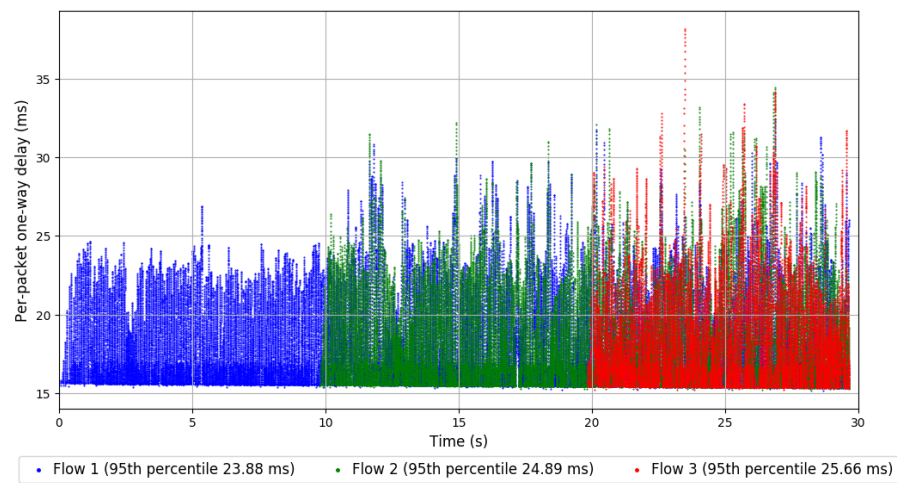
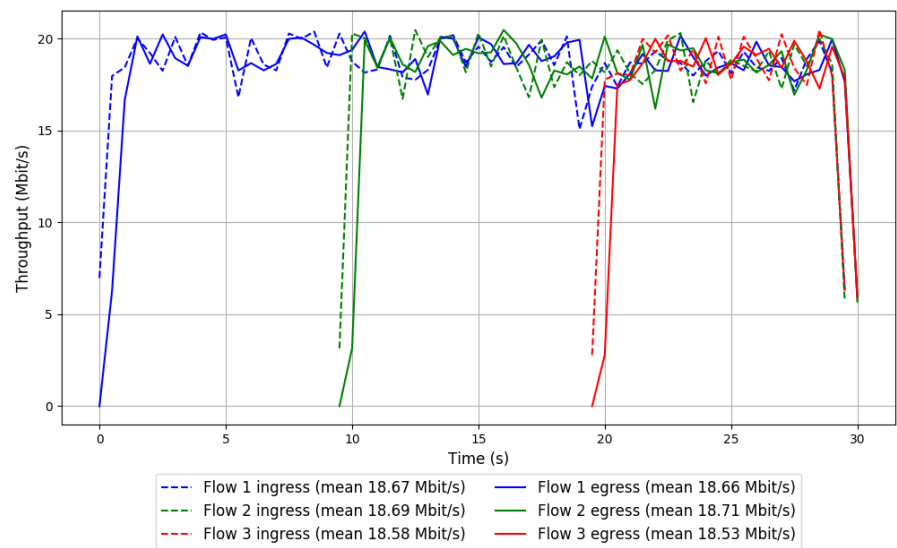
-- Flow 3:

Average throughput: 18.53 Mbit/s

95th percentile per-packet one-way delay: 25.660 ms

Loss rate: 0.43%

Run 4: Report of Sprout — Data Link

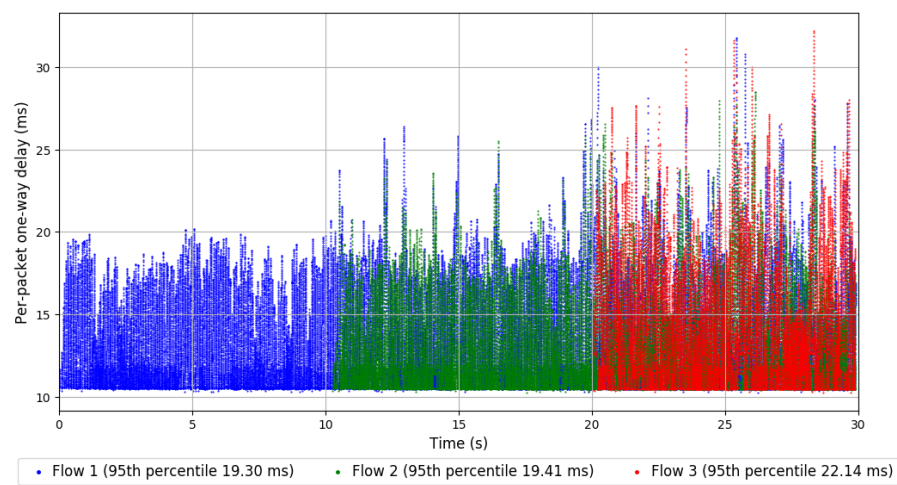
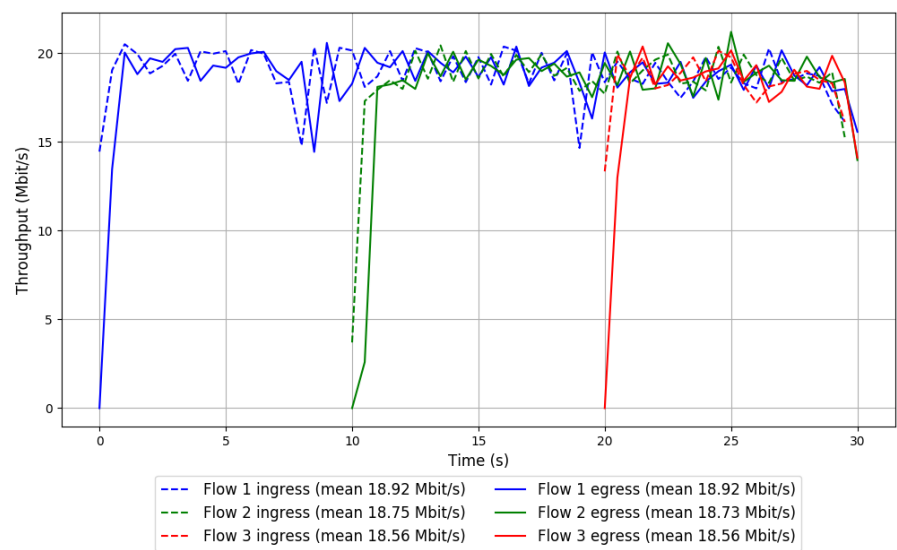


Run 5: Statistics of Sprout

Start at: 2018-05-22 17:07:50
End at: 2018-05-22 17:08:20
Local clock offset: -5.021 ms
Remote clock offset: -4.542 ms

```
# Below is generated by plot.py at 2018-05-22 19:01:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.34 Mbit/s
95th percentile per-packet one-way delay: 19.959 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 18.92 Mbit/s
95th percentile per-packet one-way delay: 19.305 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 18.73 Mbit/s
95th percentile per-packet one-way delay: 19.409 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 18.56 Mbit/s
95th percentile per-packet one-way delay: 22.137 ms
Loss rate: 0.63%
```


Run 5: Report of Sprout — Data Link

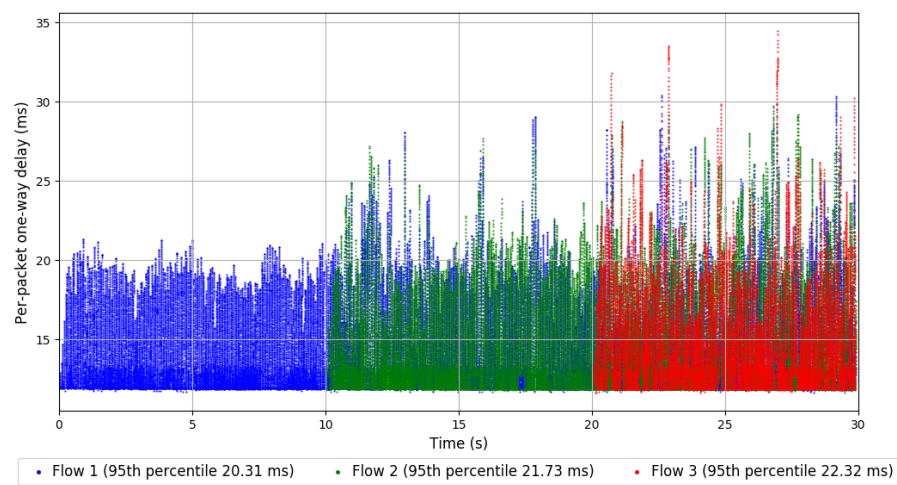
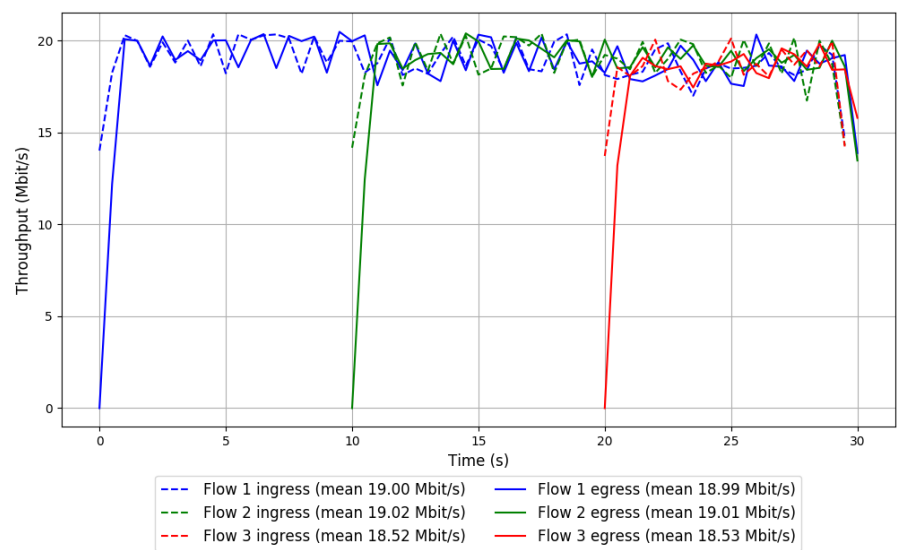


Run 6: Statistics of Sprout

Start at: 2018-05-22 17:27:28
End at: 2018-05-22 17:27:58
Local clock offset: -4.294 ms
Remote clock offset: -4.147 ms

```
# Below is generated by plot.py at 2018-05-22 19:01:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.74 Mbit/s
95th percentile per-packet one-way delay: 21.148 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 18.99 Mbit/s
95th percentile per-packet one-way delay: 20.308 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 19.01 Mbit/s
95th percentile per-packet one-way delay: 21.727 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 18.53 Mbit/s
95th percentile per-packet one-way delay: 22.318 ms
Loss rate: 0.04%
```

Run 6: Report of Sprout — Data Link

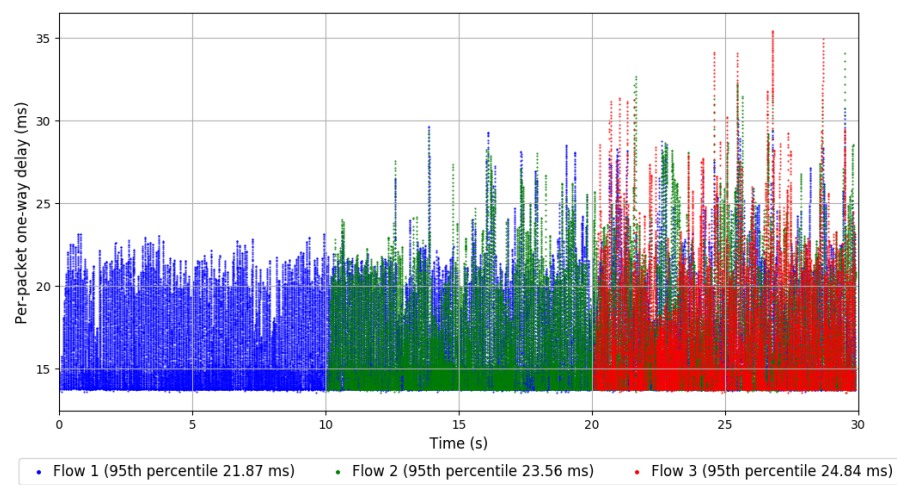
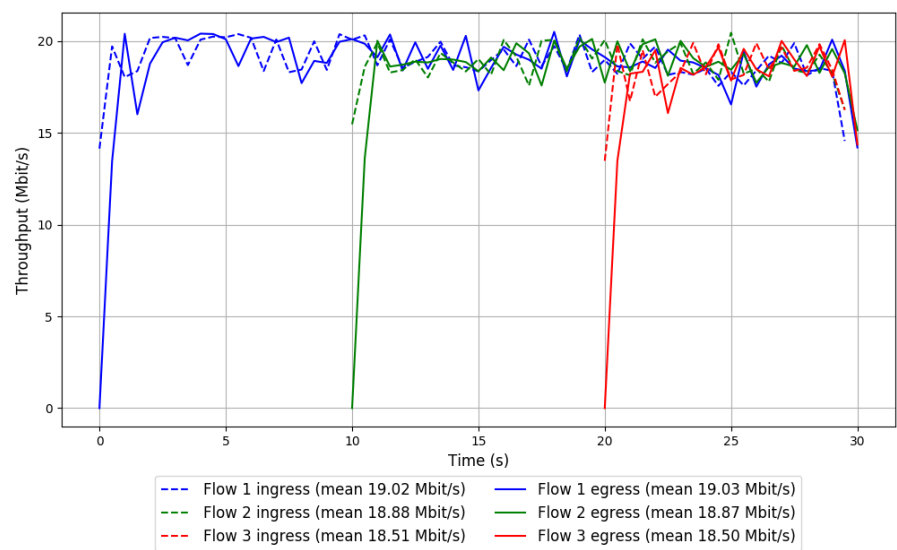


Run 7: Statistics of Sprout

Start at: 2018-05-22 17:46:42
End at: 2018-05-22 17:47:12
Local clock offset: 0.162 ms
Remote clock offset: -3.578 ms

```
# Below is generated by plot.py at 2018-05-22 19:01:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.67 Mbit/s
95th percentile per-packet one-way delay: 22.945 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 19.03 Mbit/s
95th percentile per-packet one-way delay: 21.867 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 18.87 Mbit/s
95th percentile per-packet one-way delay: 23.564 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 18.50 Mbit/s
95th percentile per-packet one-way delay: 24.835 ms
Loss rate: 0.56%
```

Run 7: Report of Sprout — Data Link

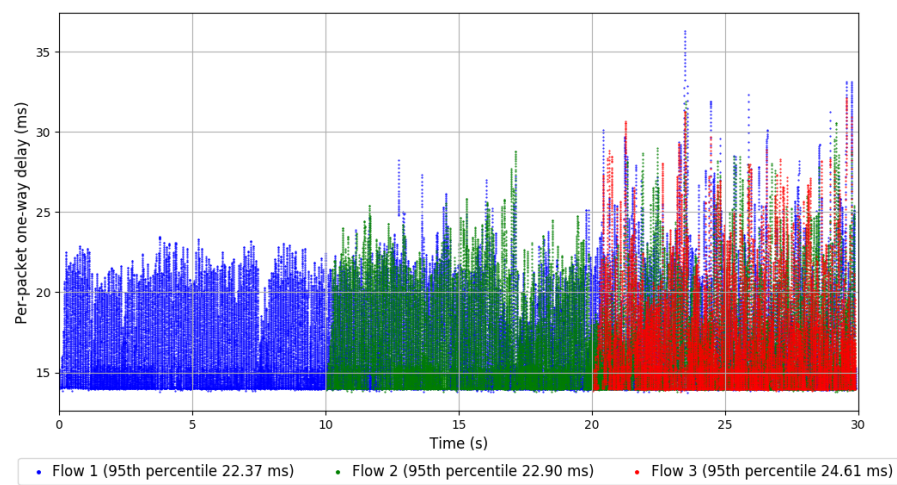
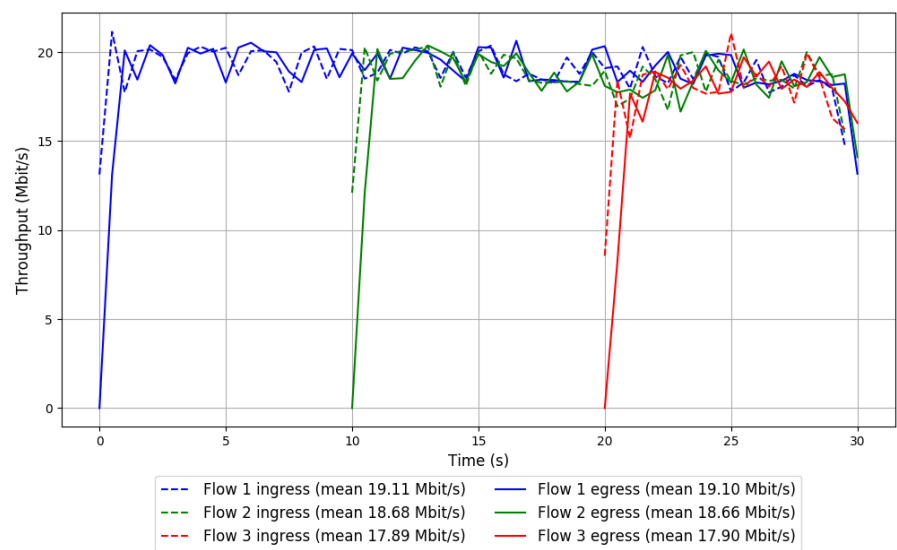


Run 8: Statistics of Sprout

Start at: 2018-05-22 18:06:09
End at: 2018-05-22 18:06:39
Local clock offset: 0.725 ms
Remote clock offset: -7.814 ms

Below is generated by plot.py at 2018-05-22 19:01:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.41 Mbit/s
95th percentile per-packet one-way delay: 22.919 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 19.10 Mbit/s
95th percentile per-packet one-way delay: 22.372 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 18.66 Mbit/s
95th percentile per-packet one-way delay: 22.900 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 17.90 Mbit/s
95th percentile per-packet one-way delay: 24.613 ms
Loss rate: 0.10%

Run 8: Report of Sprout — Data Link

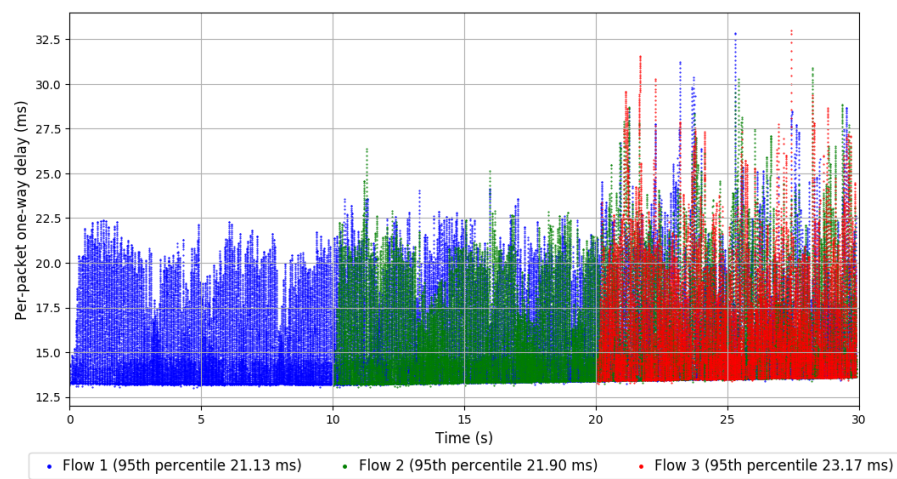
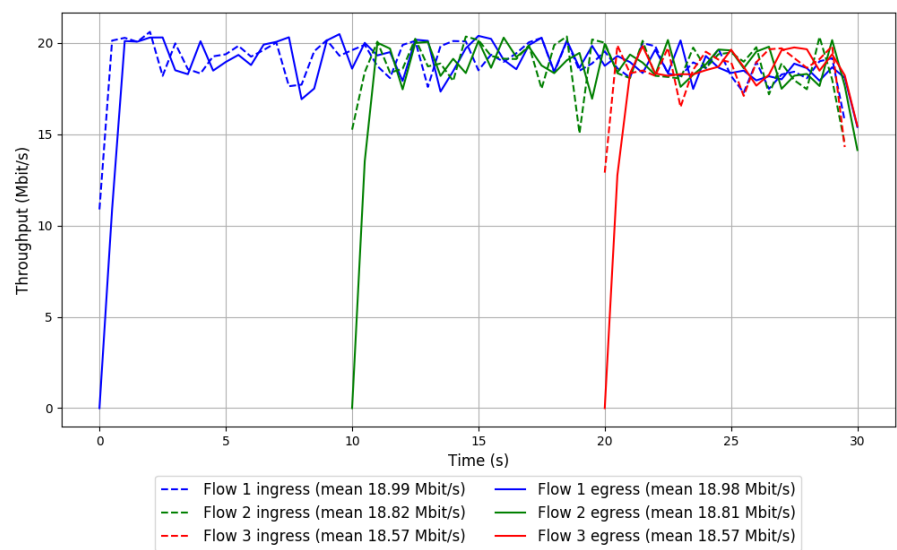


Run 9: Statistics of Sprout

Start at: 2018-05-22 18:25:27
End at: 2018-05-22 18:25:57
Local clock offset: 0.159 ms
Remote clock offset: -9.744 ms

Below is generated by plot.py at 2018-05-22 19:01:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.59 Mbit/s
95th percentile per-packet one-way delay: 21.675 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 18.98 Mbit/s
95th percentile per-packet one-way delay: 21.130 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 18.81 Mbit/s
95th percentile per-packet one-way delay: 21.904 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 18.57 Mbit/s
95th percentile per-packet one-way delay: 23.172 ms
Loss rate: 0.15%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-22 18:44:39

End at: 2018-05-22 18:45:09

Local clock offset: -0.383 ms

Remote clock offset: 1.65 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.80 Mbit/s

95th percentile per-packet one-way delay: 21.555 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 18.06 Mbit/s

95th percentile per-packet one-way delay: 20.723 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 18.49 Mbit/s

95th percentile per-packet one-way delay: 21.965 ms

Loss rate: 0.04%

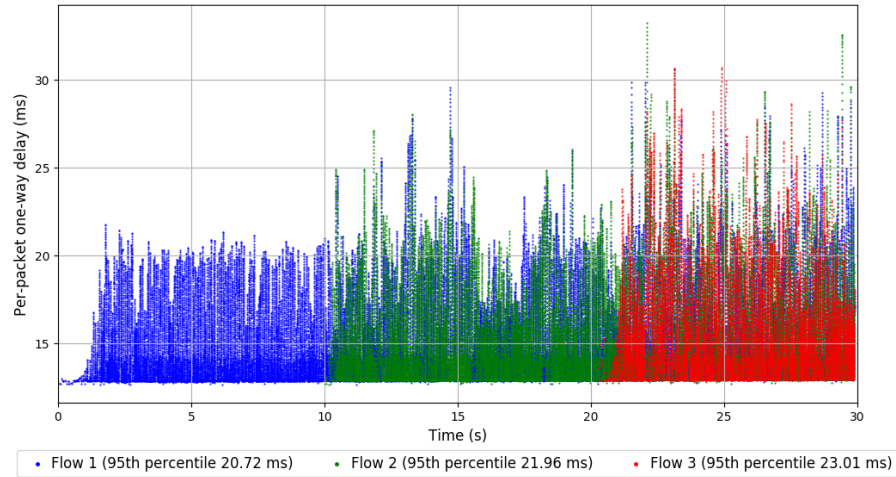
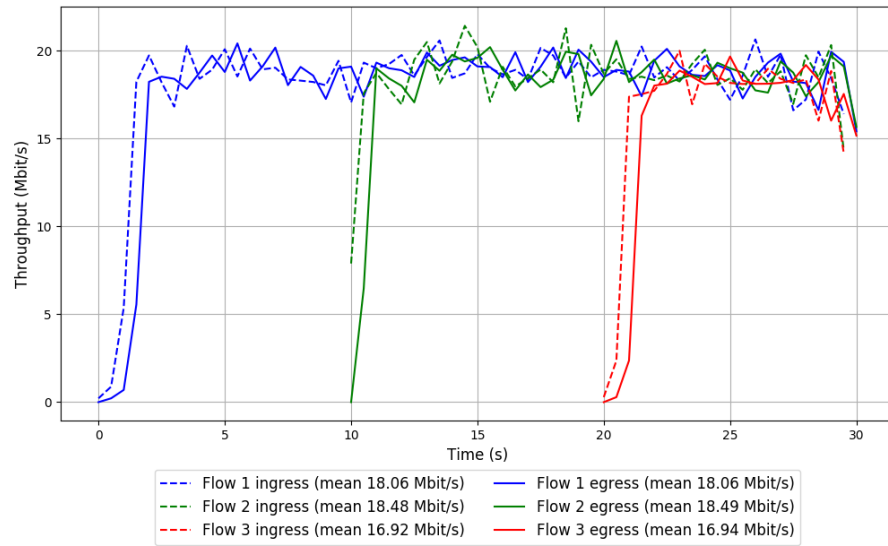
-- Flow 3:

Average throughput: 16.94 Mbit/s

95th percentile per-packet one-way delay: 23.006 ms

Loss rate: 0.09%

Run 10: Report of Sprout — Data Link

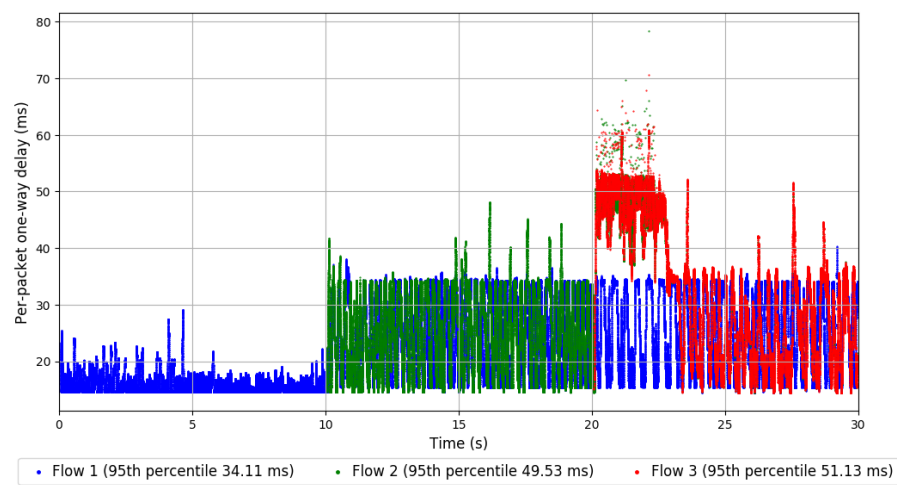
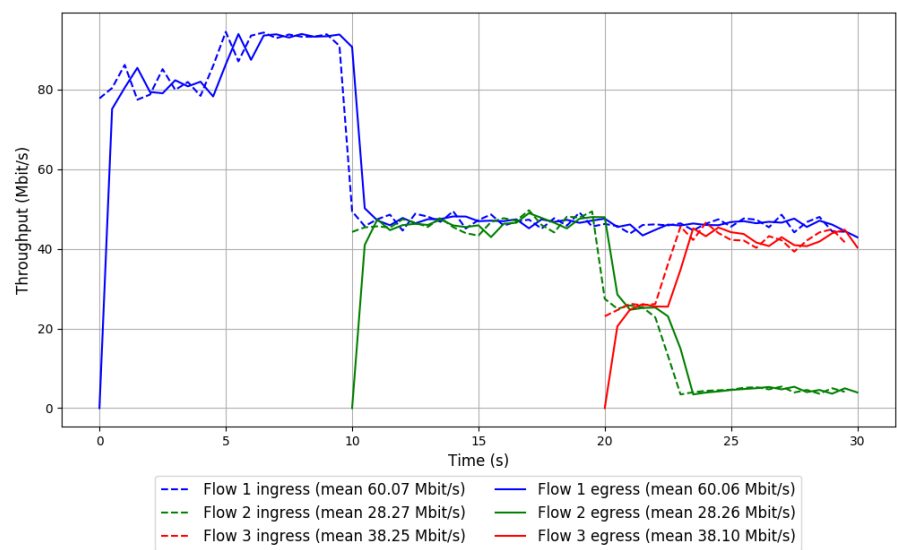


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-22 15:41:37
End at: 2018-05-22 15:42:07
Local clock offset: 0.554 ms
Remote clock offset: 5.08 ms

# Below is generated by plot.py at 2018-05-22 19:03:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.51 Mbit/s
95th percentile per-packet one-way delay: 40.311 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 60.06 Mbit/s
95th percentile per-packet one-way delay: 34.110 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 28.26 Mbit/s
95th percentile per-packet one-way delay: 49.526 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 38.10 Mbit/s
95th percentile per-packet one-way delay: 51.129 ms
Loss rate: 0.78%
```

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



Run 2: Statistics of TaoVA-100x

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

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

Local clock offset: 0.715 ms

Remote clock offset: 3.216 ms

Below is generated by plot.py at 2018-05-22 19:03:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.21 Mbit/s

95th percentile per-packet one-way delay: 49.019 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 53.84 Mbit/s

95th percentile per-packet one-way delay: 48.746 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 40.79 Mbit/s

95th percentile per-packet one-way delay: 49.085 ms

Loss rate: 1.08%

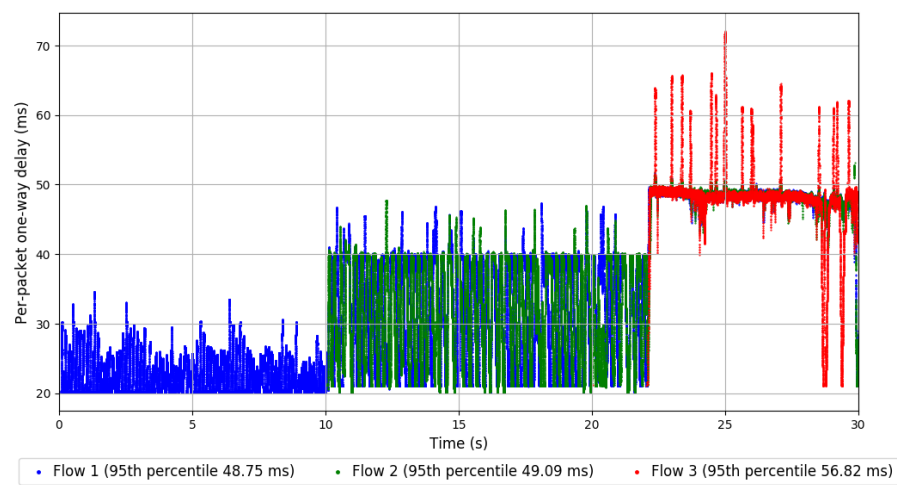
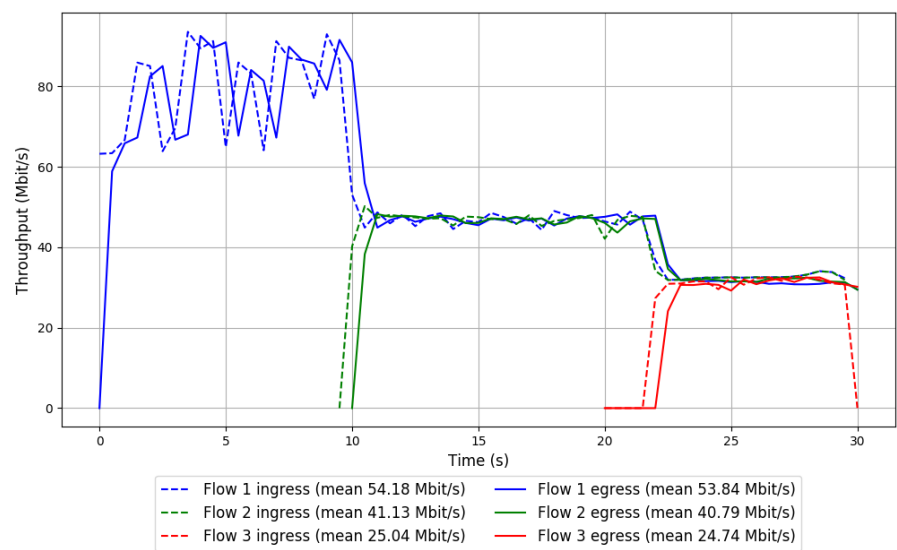
-- Flow 3:

Average throughput: 24.74 Mbit/s

95th percentile per-packet one-way delay: 56.817 ms

Loss rate: 1.76%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-22 16:20:30

End at: 2018-05-22 16:21:00

Local clock offset: 0.004 ms

Remote clock offset: 4.034 ms

Below is generated by plot.py at 2018-05-22 19:03:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.99 Mbit/s

95th percentile per-packet one-way delay: 48.417 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 58.61 Mbit/s

95th percentile per-packet one-way delay: 31.880 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 33.83 Mbit/s

95th percentile per-packet one-way delay: 49.911 ms

Loss rate: 0.25%

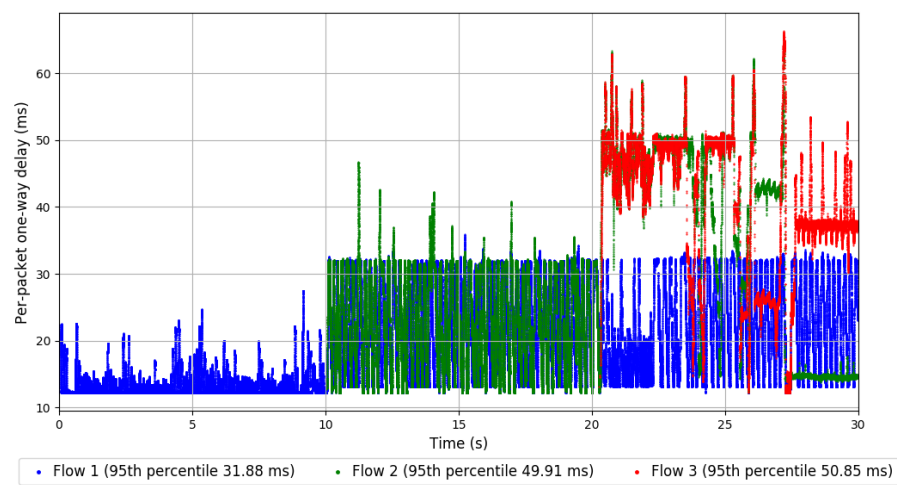
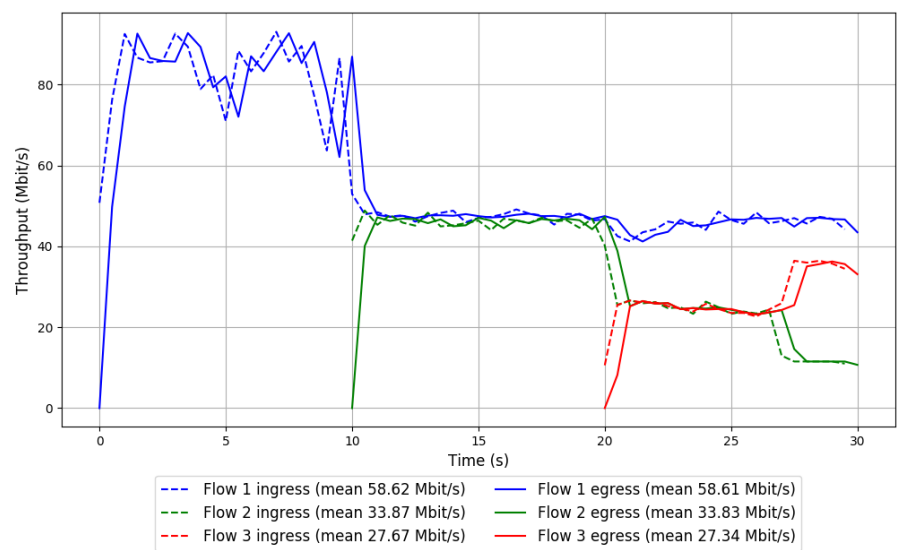
-- Flow 3:

Average throughput: 27.34 Mbit/s

95th percentile per-packet one-way delay: 50.846 ms

Loss rate: 1.47%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-22 16:40:08

End at: 2018-05-22 16:40:38

Local clock offset: -2.69 ms

Remote clock offset: 5.01 ms

Below is generated by plot.py at 2018-05-22 19:03:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 49.387 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 54.97 Mbit/s

95th percentile per-packet one-way delay: 49.063 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 46.68 Mbit/s

95th percentile per-packet one-way delay: 31.621 ms

Loss rate: 0.29%

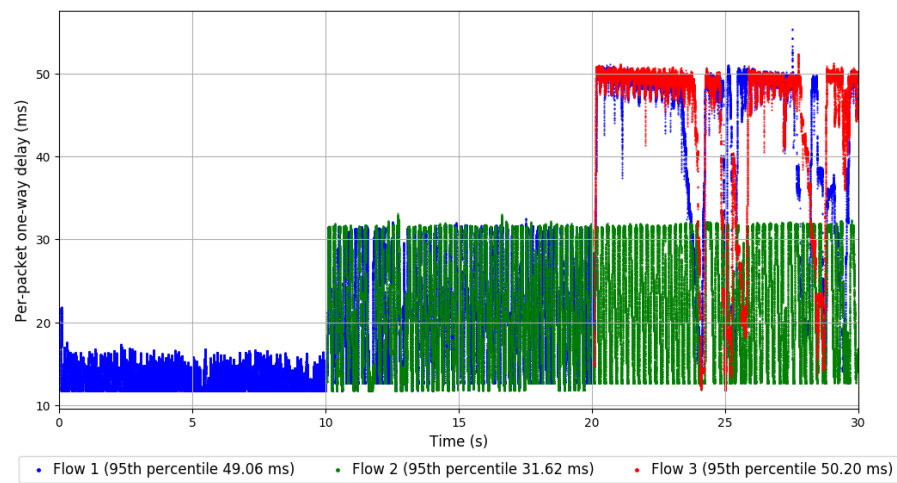
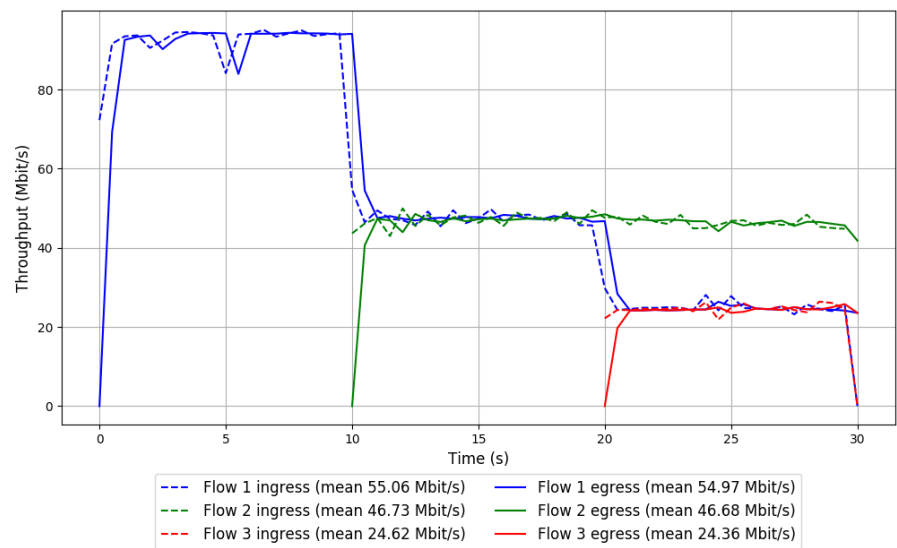
-- Flow 3:

Average throughput: 24.36 Mbit/s

95th percentile per-packet one-way delay: 50.205 ms

Loss rate: 1.56%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-22 17:00:08

End at: 2018-05-22 17:00:38

Local clock offset: -1.029 ms

Remote clock offset: -3.44 ms

Below is generated by plot.py at 2018-05-22 19:03:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.67 Mbit/s

95th percentile per-packet one-way delay: 50.707 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 52.64 Mbit/s

95th percentile per-packet one-way delay: 50.075 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 46.26 Mbit/s

95th percentile per-packet one-way delay: 34.046 ms

Loss rate: 0.23%

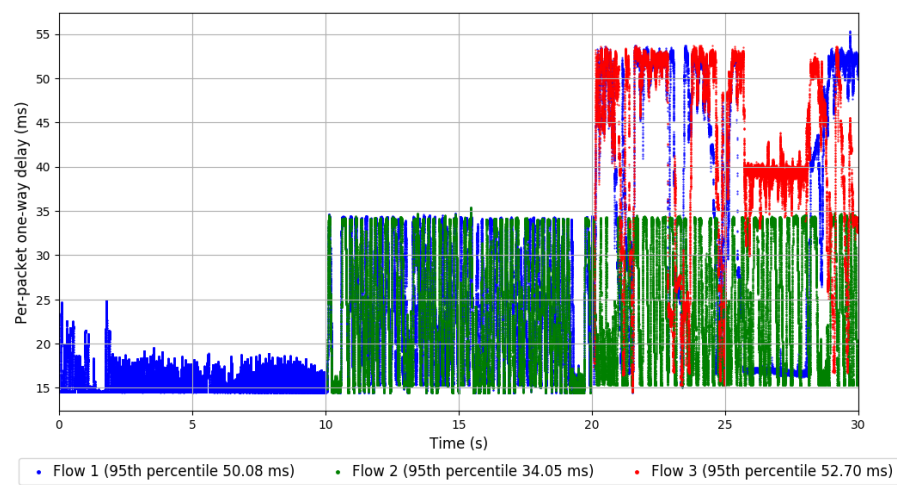
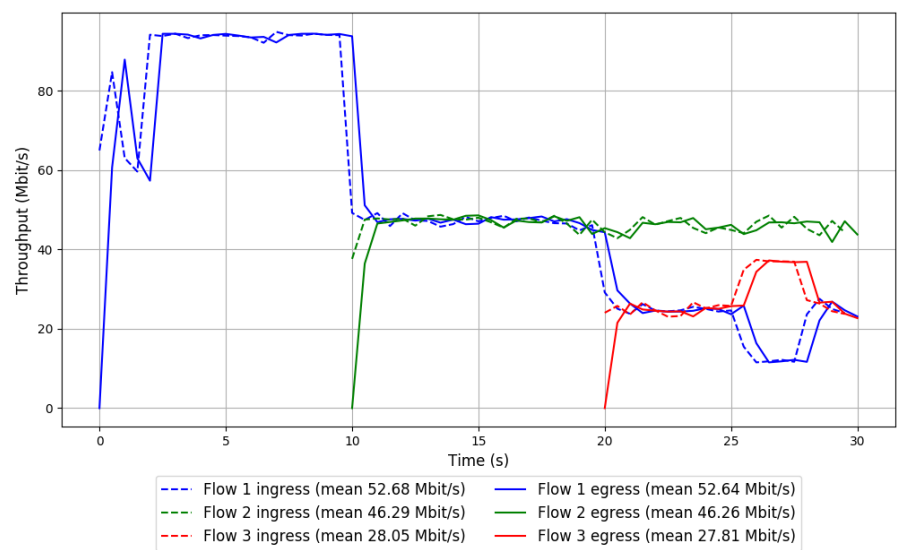
-- Flow 3:

Average throughput: 27.81 Mbit/s

95th percentile per-packet one-way delay: 52.698 ms

Loss rate: 1.15%

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

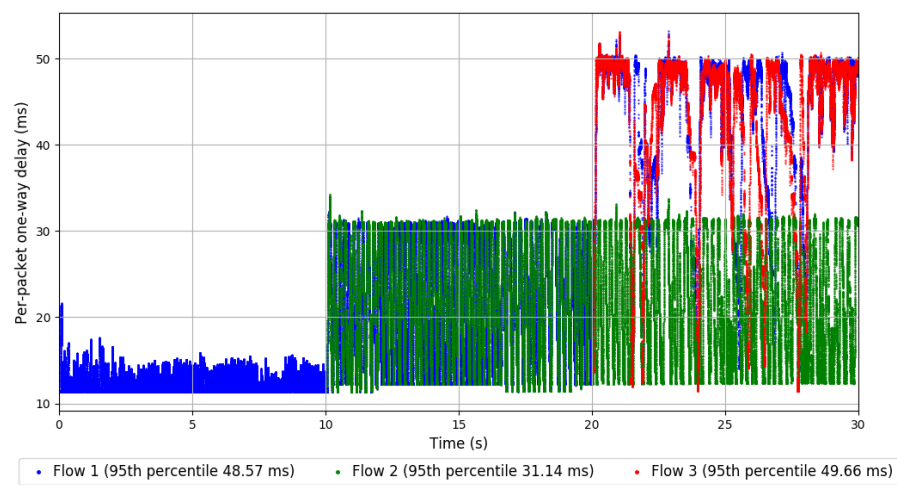
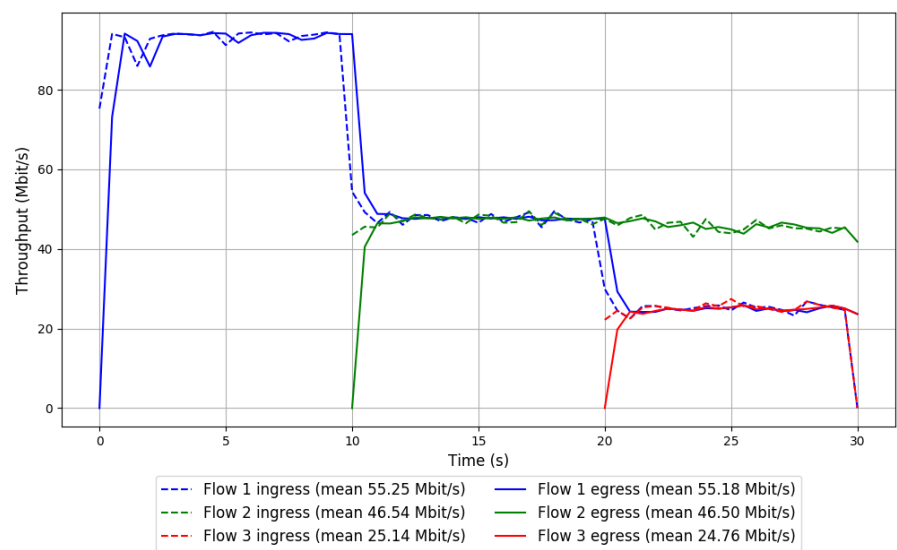


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-22 17:19:59
End at: 2018-05-22 17:20:29
Local clock offset: -4.402 ms
Remote clock offset: -4.868 ms

Below is generated by plot.py at 2018-05-22 19:03:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.36 Mbit/s
95th percentile per-packet one-way delay: 48.717 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 55.18 Mbit/s
95th percentile per-packet one-way delay: 48.567 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 46.50 Mbit/s
95th percentile per-packet one-way delay: 31.142 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 24.76 Mbit/s
95th percentile per-packet one-way delay: 49.663 ms
Loss rate: 1.99%

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

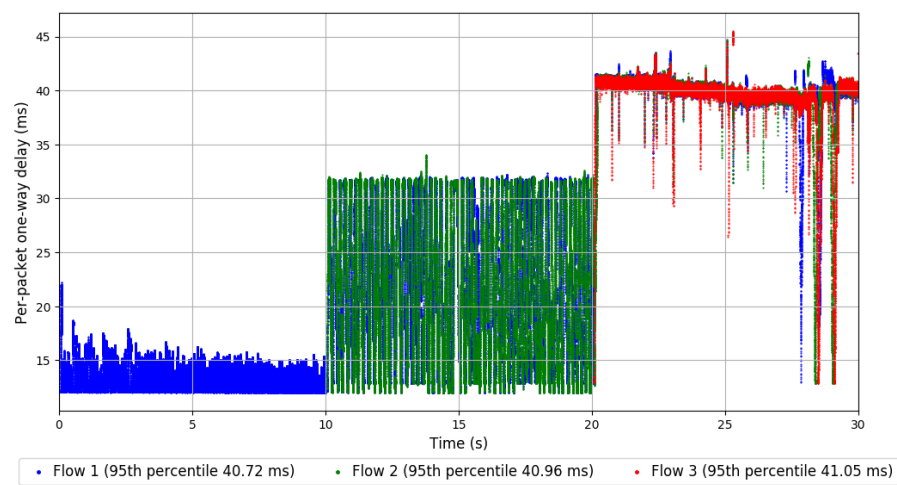
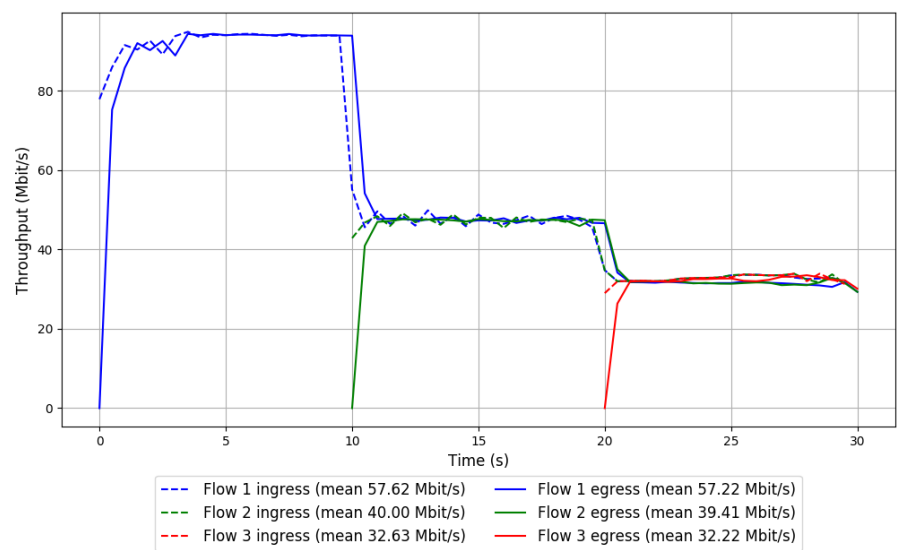


Run 7: Statistics of TaoVA-100x

Start at: 2018-05-22 17:39:23
End at: 2018-05-22 17:39:53
Local clock offset: -2.126 ms
Remote clock offset: -3.625 ms

Below is generated by plot.py at 2018-05-22 19:03:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 40.909 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 57.22 Mbit/s
95th percentile per-packet one-way delay: 40.716 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 39.41 Mbit/s
95th percentile per-packet one-way delay: 40.964 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 32.22 Mbit/s
95th percentile per-packet one-way delay: 41.055 ms
Loss rate: 1.66%

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

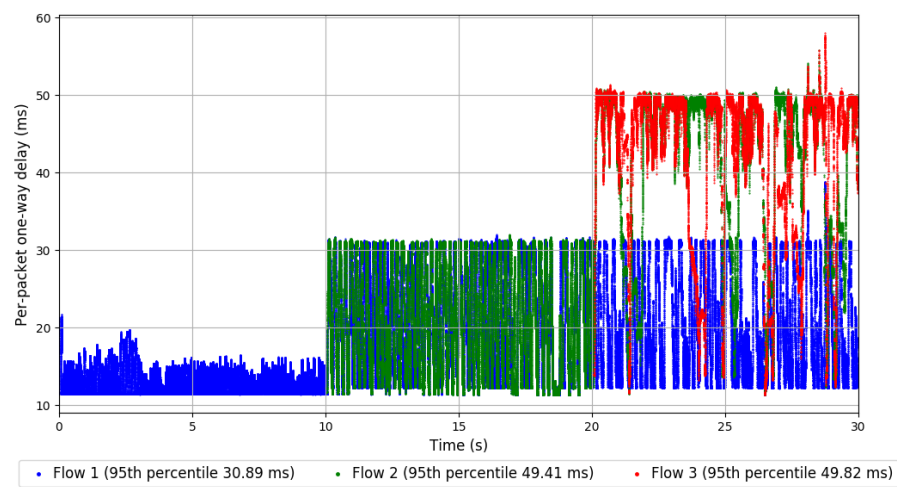
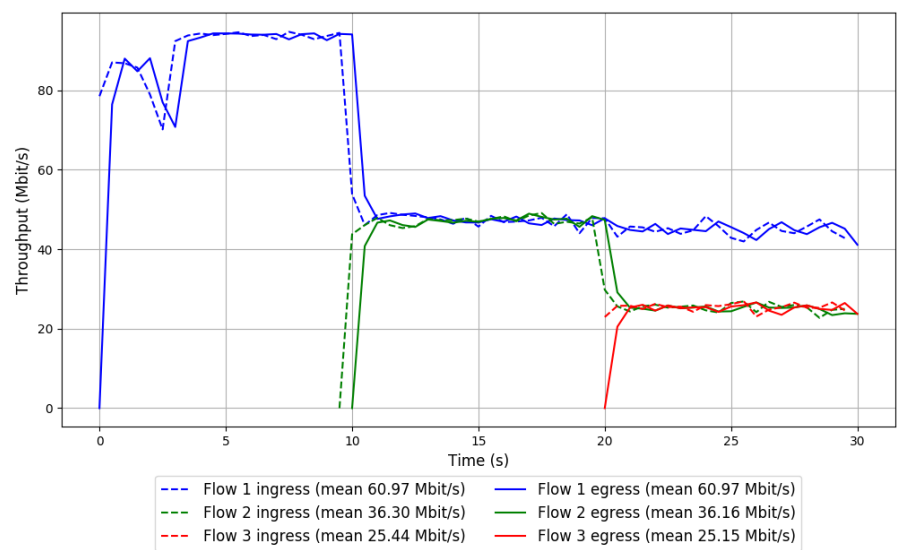


Run 8: Statistics of TaoVA-100x

Start at: 2018-05-22 17:58:49
End at: 2018-05-22 17:59:19
Local clock offset: -1.678 ms
Remote clock offset: -6.445 ms

Below is generated by plot.py at 2018-05-22 19:03:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.39 Mbit/s
95th percentile per-packet one-way delay: 48.902 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 60.97 Mbit/s
95th percentile per-packet one-way delay: 30.891 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 36.16 Mbit/s
95th percentile per-packet one-way delay: 49.406 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 25.15 Mbit/s
95th percentile per-packet one-way delay: 49.816 ms
Loss rate: 1.49%

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

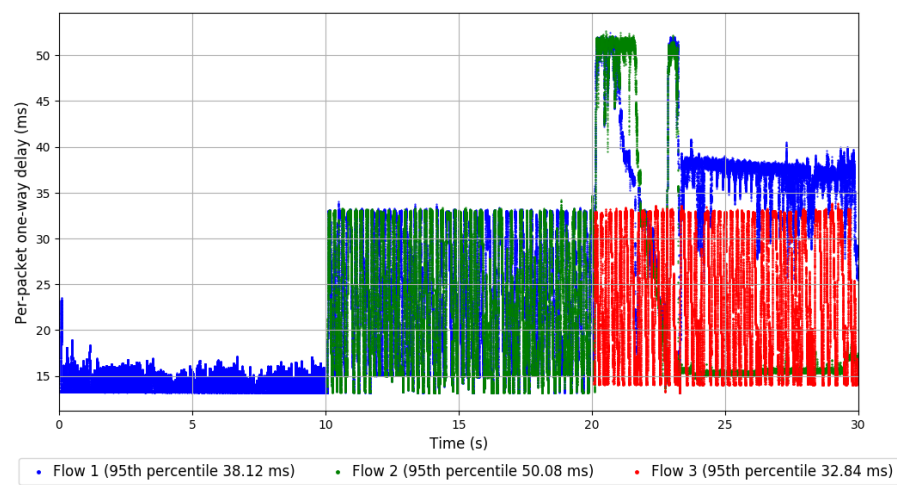
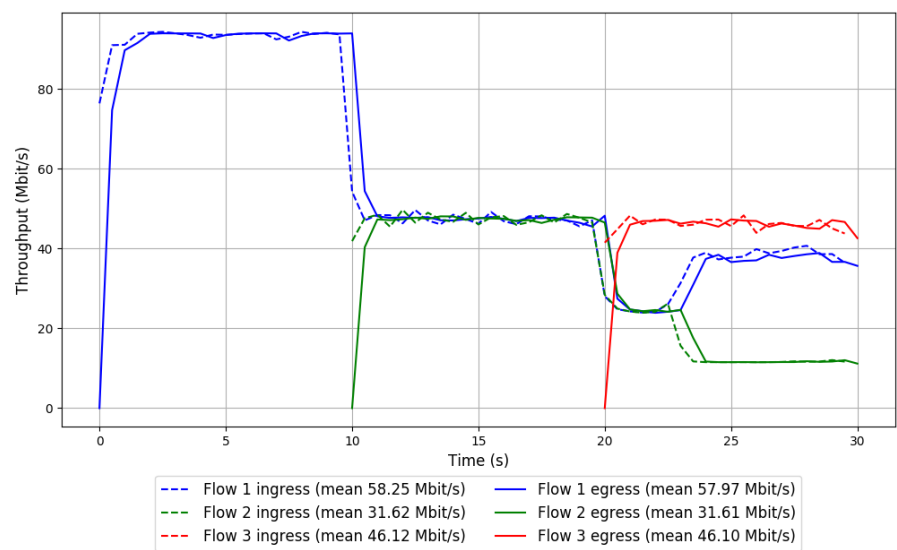


Run 9: Statistics of TaoVA-100x

Start at: 2018-05-22 18:18:02
End at: 2018-05-22 18:18:32
Local clock offset: -0.648 ms
Remote clock offset: -9.823 ms

Below is generated by plot.py at 2018-05-22 19:05:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 38.063 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 57.97 Mbit/s
95th percentile per-packet one-way delay: 38.119 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 31.61 Mbit/s
95th percentile per-packet one-way delay: 50.084 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 46.10 Mbit/s
95th percentile per-packet one-way delay: 32.837 ms
Loss rate: 0.34%

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

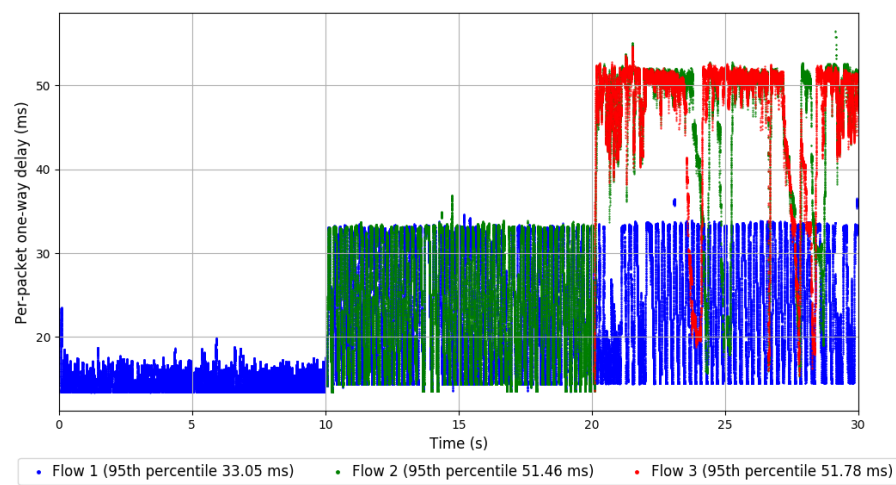
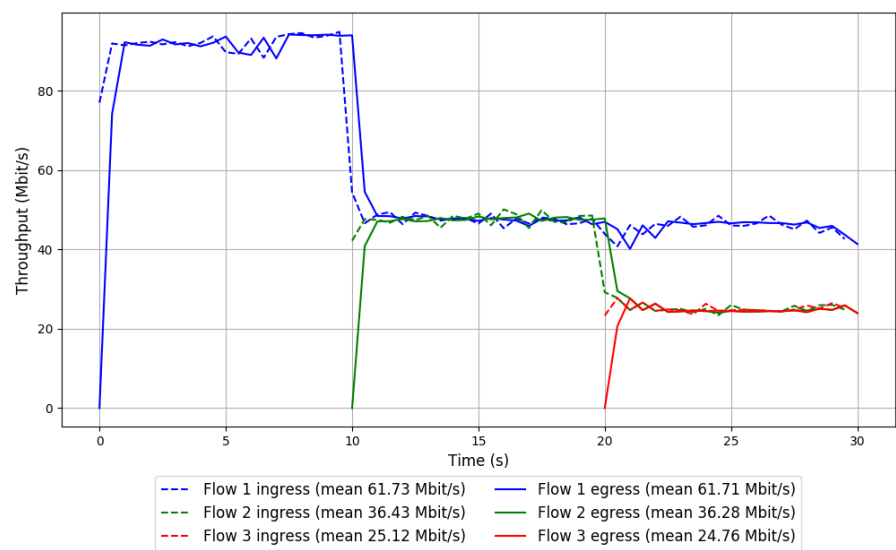


Run 10: Statistics of TaoVA-100x

Start at: 2018-05-22 18:37:13
End at: 2018-05-22 18:37:43
Local clock offset: -0.489 ms
Remote clock offset: -1.499 ms

Below is generated by plot.py at 2018-05-22 19:05:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 51.041 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 61.71 Mbit/s
95th percentile per-packet one-way delay: 33.053 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 36.28 Mbit/s
95th percentile per-packet one-way delay: 51.464 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 24.76 Mbit/s
95th percentile per-packet one-way delay: 51.785 ms
Loss rate: 1.88%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-22 15:35:49

End at: 2018-05-22 15:36:19

Local clock offset: -0.001 ms

Remote clock offset: 8.256 ms

Below is generated by plot.py at 2018-05-22 19:05:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.62 Mbit/s

95th percentile per-packet one-way delay: 16.079 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 60.86 Mbit/s

95th percentile per-packet one-way delay: 16.040 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 36.71 Mbit/s

95th percentile per-packet one-way delay: 15.779 ms

Loss rate: 0.13%

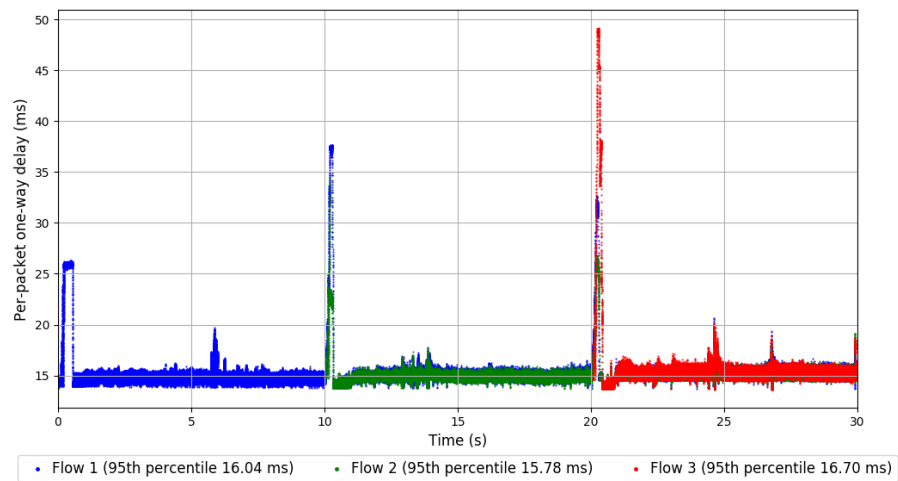
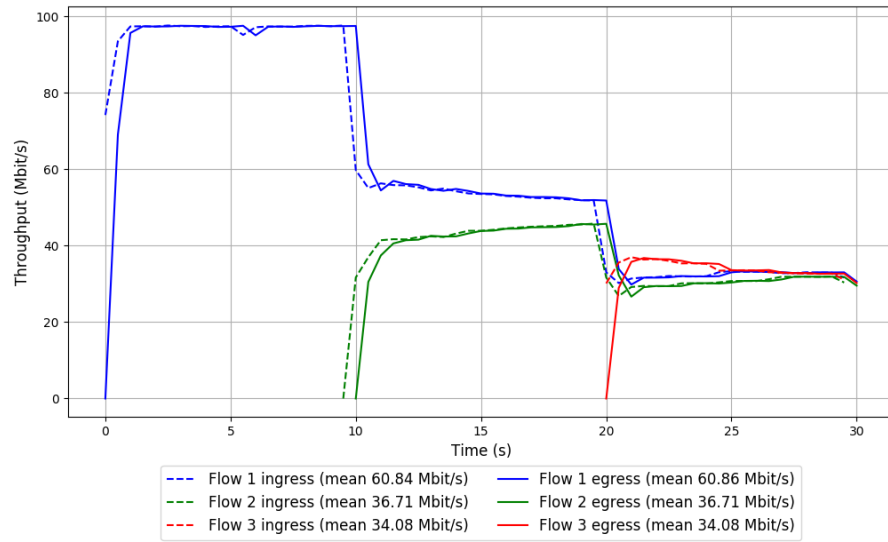
-- Flow 3:

Average throughput: 34.08 Mbit/s

95th percentile per-packet one-way delay: 16.700 ms

Loss rate: 0.28%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-22 15:55:14

End at: 2018-05-22 15:55:44

Local clock offset: 2.108 ms

Remote clock offset: 3.514 ms

Below is generated by plot.py at 2018-05-22 19:05:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.35 Mbit/s

95th percentile per-packet one-way delay: 19.500 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 56.19 Mbit/s

95th percentile per-packet one-way delay: 18.936 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 40.09 Mbit/s

95th percentile per-packet one-way delay: 19.591 ms

Loss rate: 0.11%

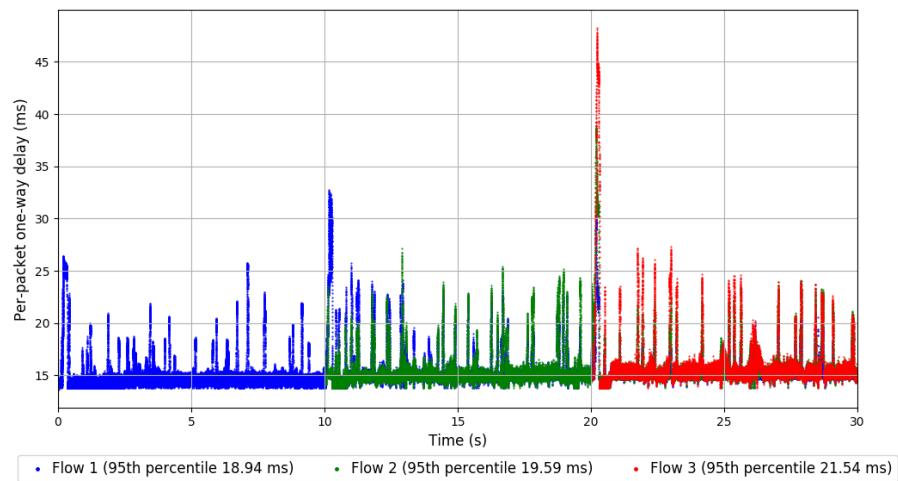
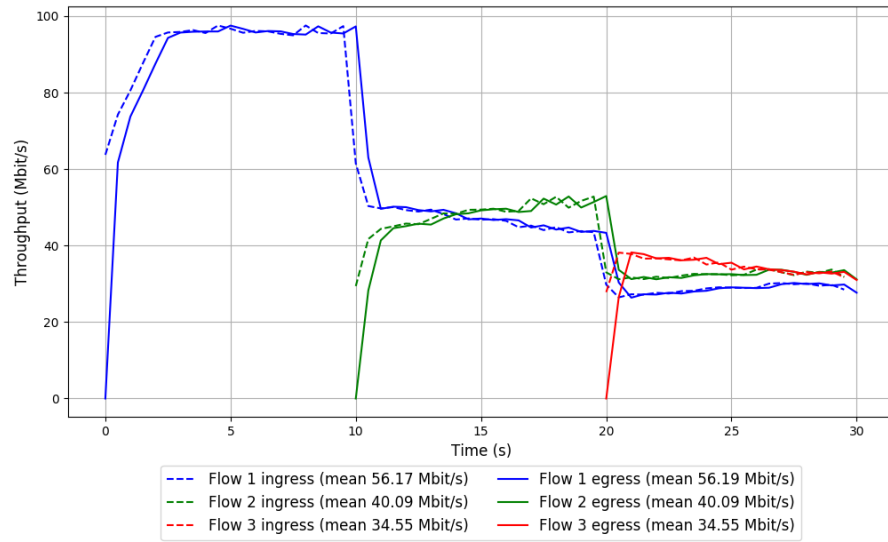
-- Flow 3:

Average throughput: 34.55 Mbit/s

95th percentile per-packet one-way delay: 21.544 ms

Loss rate: 0.27%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-22 16:14:35

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

Local clock offset: 0.6 ms

Remote clock offset: 2.534 ms

Below is generated by plot.py at 2018-05-22 19:05:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 20.477 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 53.50 Mbit/s

95th percentile per-packet one-way delay: 19.979 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 45.97 Mbit/s

95th percentile per-packet one-way delay: 22.525 ms

Loss rate: 0.15%

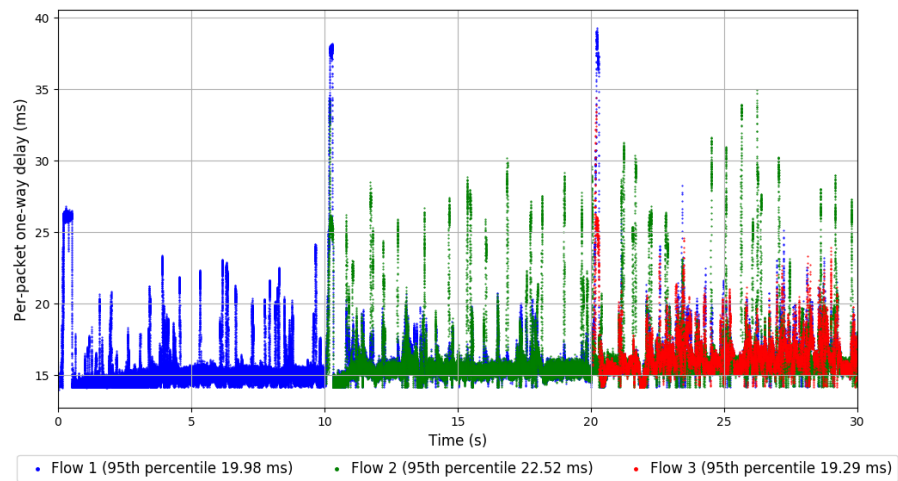
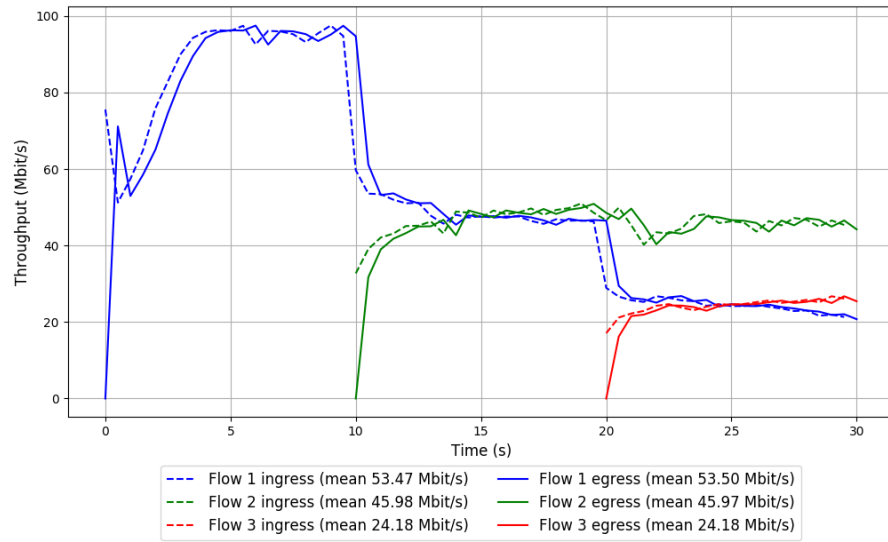
-- Flow 3:

Average throughput: 24.18 Mbit/s

95th percentile per-packet one-way delay: 19.294 ms

Loss rate: 0.32%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-22 16:34:12

End at: 2018-05-22 16:34:42

Local clock offset: -0.652 ms

Remote clock offset: 3.101 ms

Below is generated by plot.py at 2018-05-22 19:05:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.67 Mbit/s

95th percentile per-packet one-way delay: 21.060 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 55.32 Mbit/s

95th percentile per-packet one-way delay: 21.895 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 43.91 Mbit/s

95th percentile per-packet one-way delay: 19.487 ms

Loss rate: 0.15%

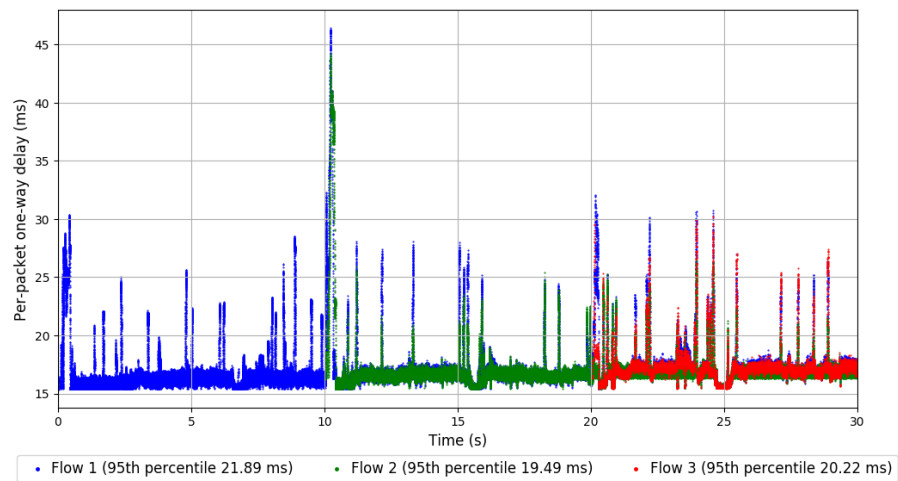
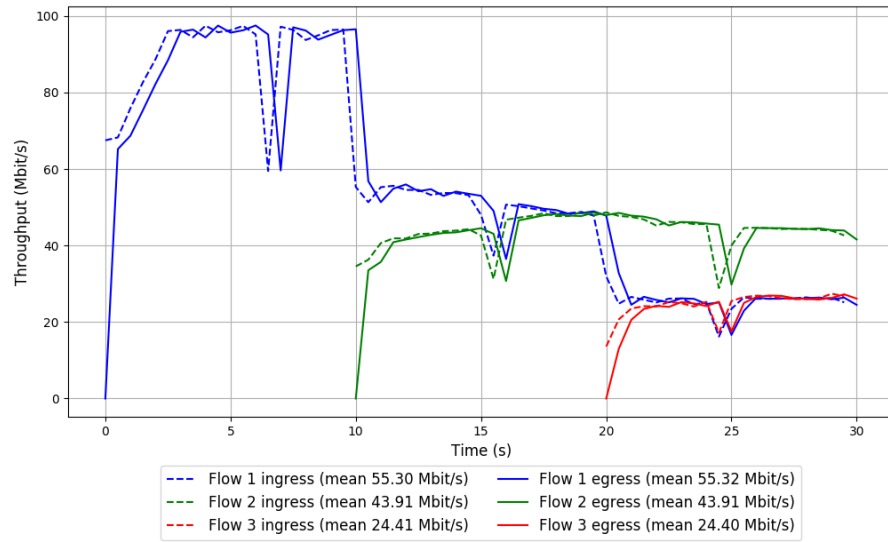
-- Flow 3:

Average throughput: 24.40 Mbit/s

95th percentile per-packet one-way delay: 20.222 ms

Loss rate: 0.34%

Run 4: Report of TCP Vegas — Data Link

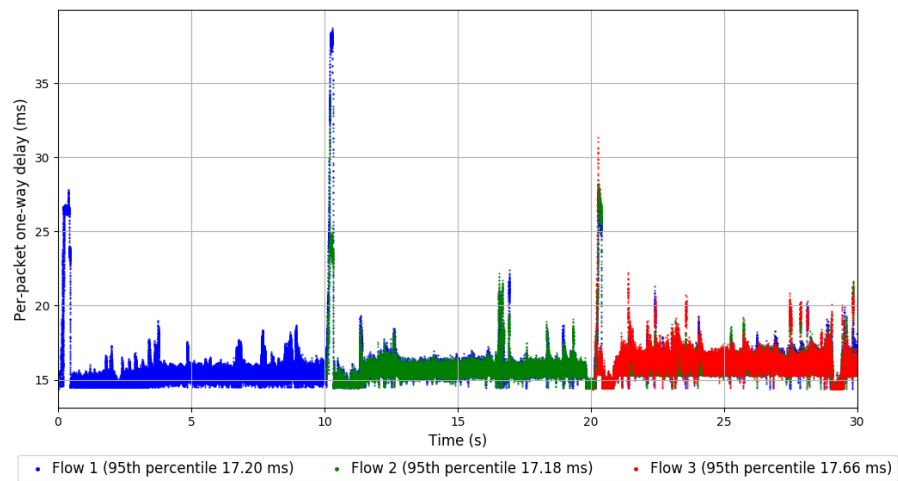
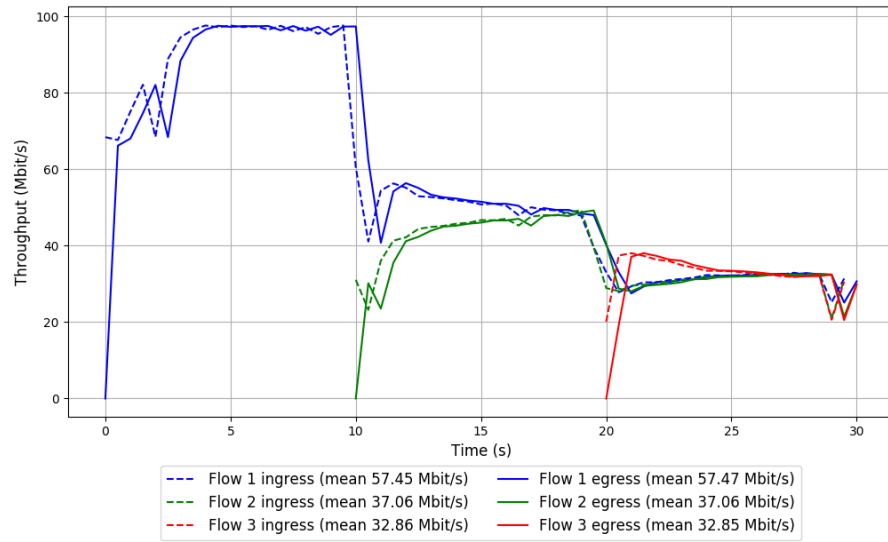


Run 5: Statistics of TCP Vegas

Start at: 2018-05-22 16:53:49
End at: 2018-05-22 16:54:19
Local clock offset: -1.218 ms
Remote clock offset: -2.085 ms

Below is generated by plot.py at 2018-05-22 19:05:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.00 Mbit/s
95th percentile per-packet one-way delay: 17.312 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 57.47 Mbit/s
95th percentile per-packet one-way delay: 17.201 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 37.06 Mbit/s
95th percentile per-packet one-way delay: 17.176 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 32.85 Mbit/s
95th percentile per-packet one-way delay: 17.656 ms
Loss rate: 0.29%

Run 5: Report of TCP Vegas — Data Link

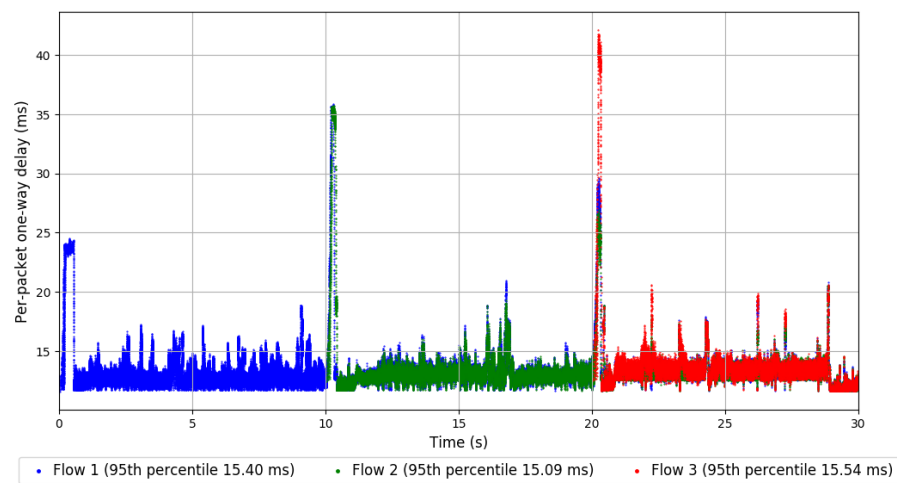
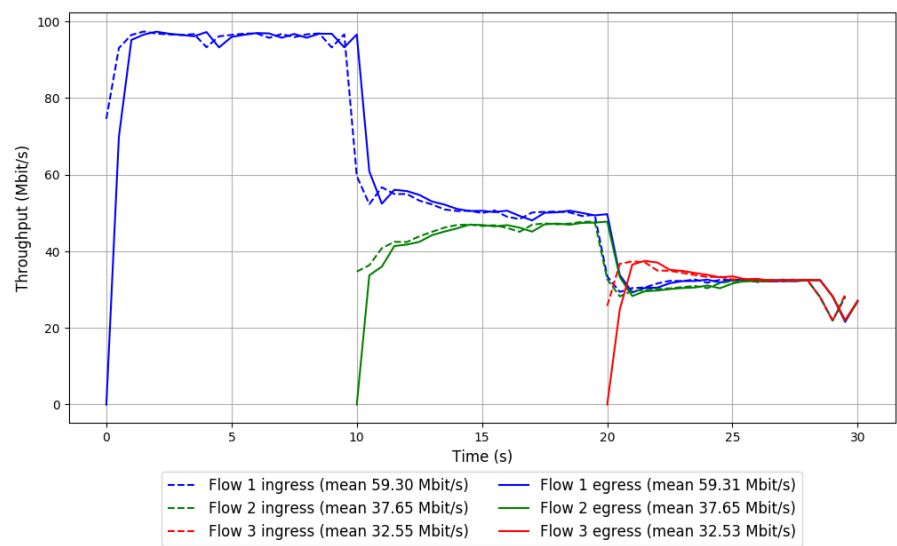


Run 6: Statistics of TCP Vegas

Start at: 2018-05-22 17:14:01
End at: 2018-05-22 17:14:31
Local clock offset: -4.76 ms
Remote clock offset: -6.284 ms

Below is generated by plot.py at 2018-05-22 19:05:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 15.350 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 59.31 Mbit/s
95th percentile per-packet one-way delay: 15.399 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 37.65 Mbit/s
95th percentile per-packet one-way delay: 15.085 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 32.53 Mbit/s
95th percentile per-packet one-way delay: 15.540 ms
Loss rate: 0.32%

Run 6: Report of TCP Vegas — Data Link

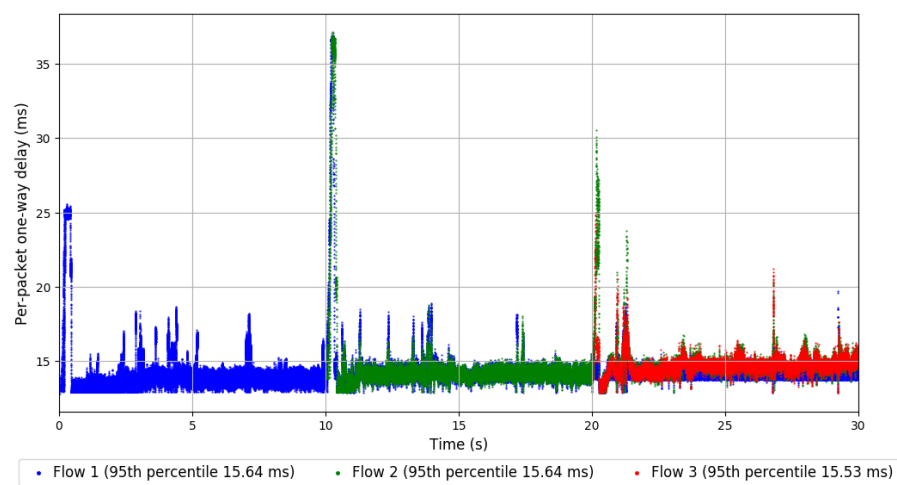
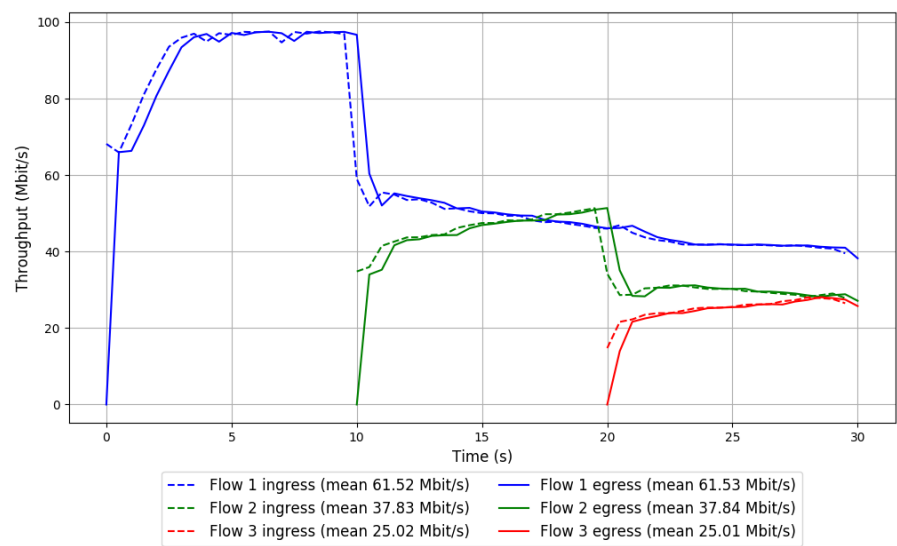


Run 7: Statistics of TCP Vegas

Start at: 2018-05-22 17:33:31
End at: 2018-05-22 17:34:01
Local clock offset: -1.449 ms
Remote clock offset: -3.203 ms

Below is generated by plot.py at 2018-05-22 19:05:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.03 Mbit/s
95th percentile per-packet one-way delay: 15.619 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 61.53 Mbit/s
95th percentile per-packet one-way delay: 15.643 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 37.84 Mbit/s
95th percentile per-packet one-way delay: 15.638 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 25.01 Mbit/s
95th percentile per-packet one-way delay: 15.526 ms
Loss rate: 0.32%

Run 7: Report of TCP Vegas — Data Link

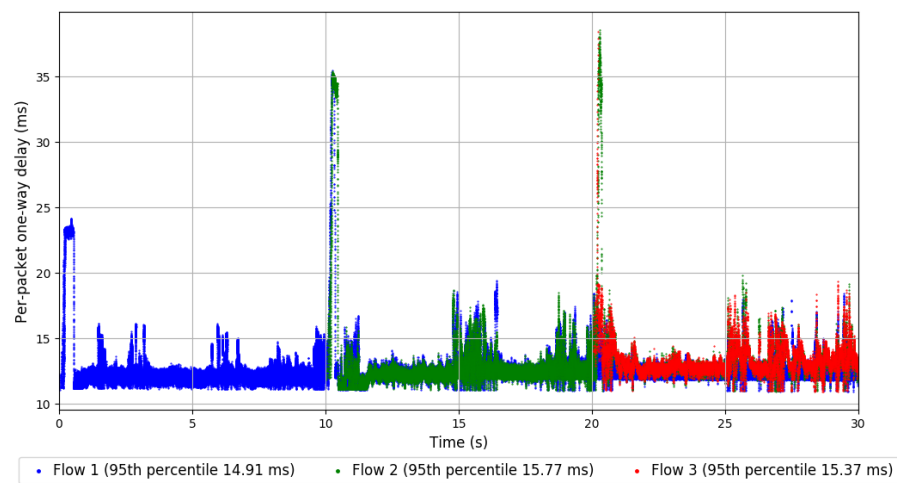
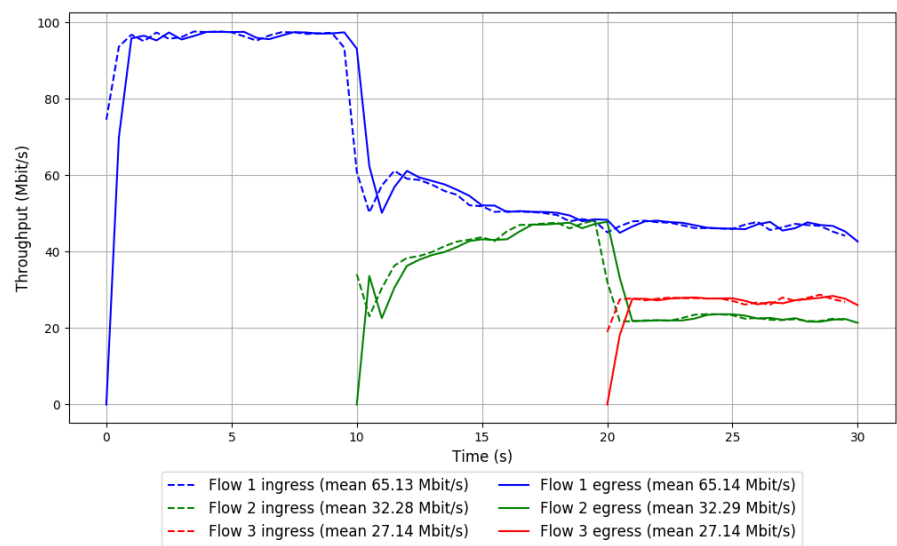


Run 8: Statistics of TCP Vegas

Start at: 2018-05-22 17:52:49
End at: 2018-05-22 17:53:19
Local clock offset: -1.067 ms
Remote clock offset: -3.379 ms

Below is generated by plot.py at 2018-05-22 19:05:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 15.155 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 65.14 Mbit/s
95th percentile per-packet one-way delay: 14.907 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 15.767 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 27.14 Mbit/s
95th percentile per-packet one-way delay: 15.366 ms
Loss rate: 0.29%

Run 8: Report of TCP Vegas — Data Link

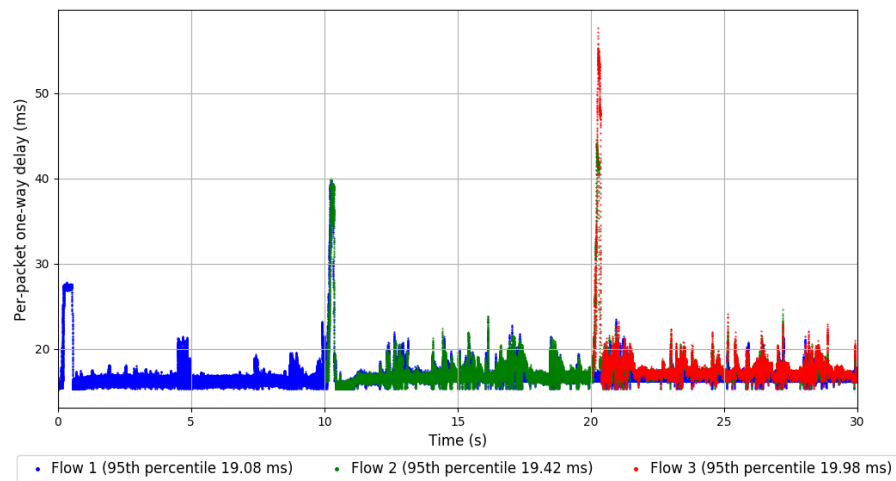
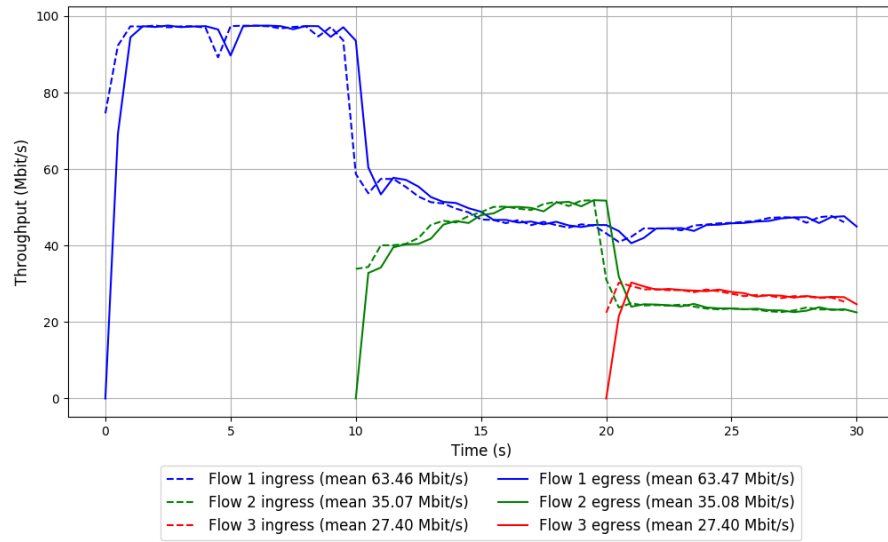


Run 9: Statistics of TCP Vegas

Start at: 2018-05-22 18:12:08
End at: 2018-05-22 18:12:38
Local clock offset: 1.102 ms
Remote clock offset: -9.527 ms

Below is generated by plot.py at 2018-05-22 19:05:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 19.316 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 63.47 Mbit/s
95th percentile per-packet one-way delay: 19.080 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 35.08 Mbit/s
95th percentile per-packet one-way delay: 19.421 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 27.40 Mbit/s
95th percentile per-packet one-way delay: 19.984 ms
Loss rate: 0.28%

Run 9: Report of TCP Vegas — Data Link

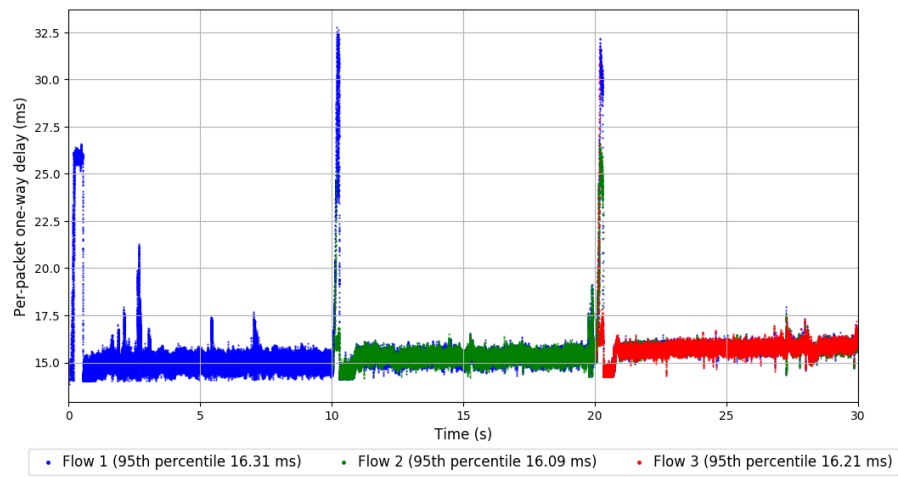
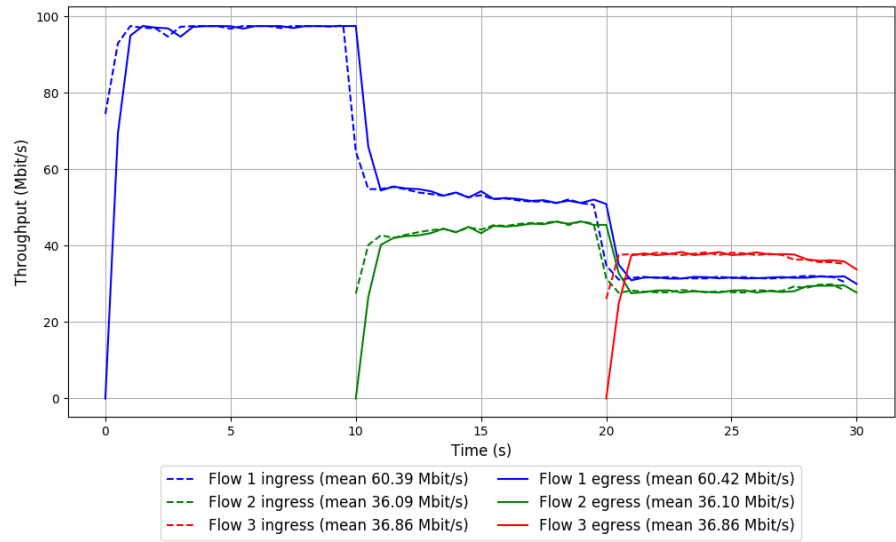


Run 10: Statistics of TCP Vegas

Start at: 2018-05-22 18:31:26
End at: 2018-05-22 18:31:56
Local clock offset: 0.129 ms
Remote clock offset: -4.785 ms

Below is generated by plot.py at 2018-05-22 19:06:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.69 Mbit/s
95th percentile per-packet one-way delay: 16.195 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 60.42 Mbit/s
95th percentile per-packet one-way delay: 16.309 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 36.10 Mbit/s
95th percentile per-packet one-way delay: 16.089 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 36.86 Mbit/s
95th percentile per-packet one-way delay: 16.210 ms
Loss rate: 0.29%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-22 15:39:27

End at: 2018-05-22 15:39:57

Local clock offset: 1.458 ms

Remote clock offset: 5.8 ms

Below is generated by plot.py at 2018-05-22 19:06:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 15.696 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 15.786 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 15.468 ms

Loss rate: 0.00%

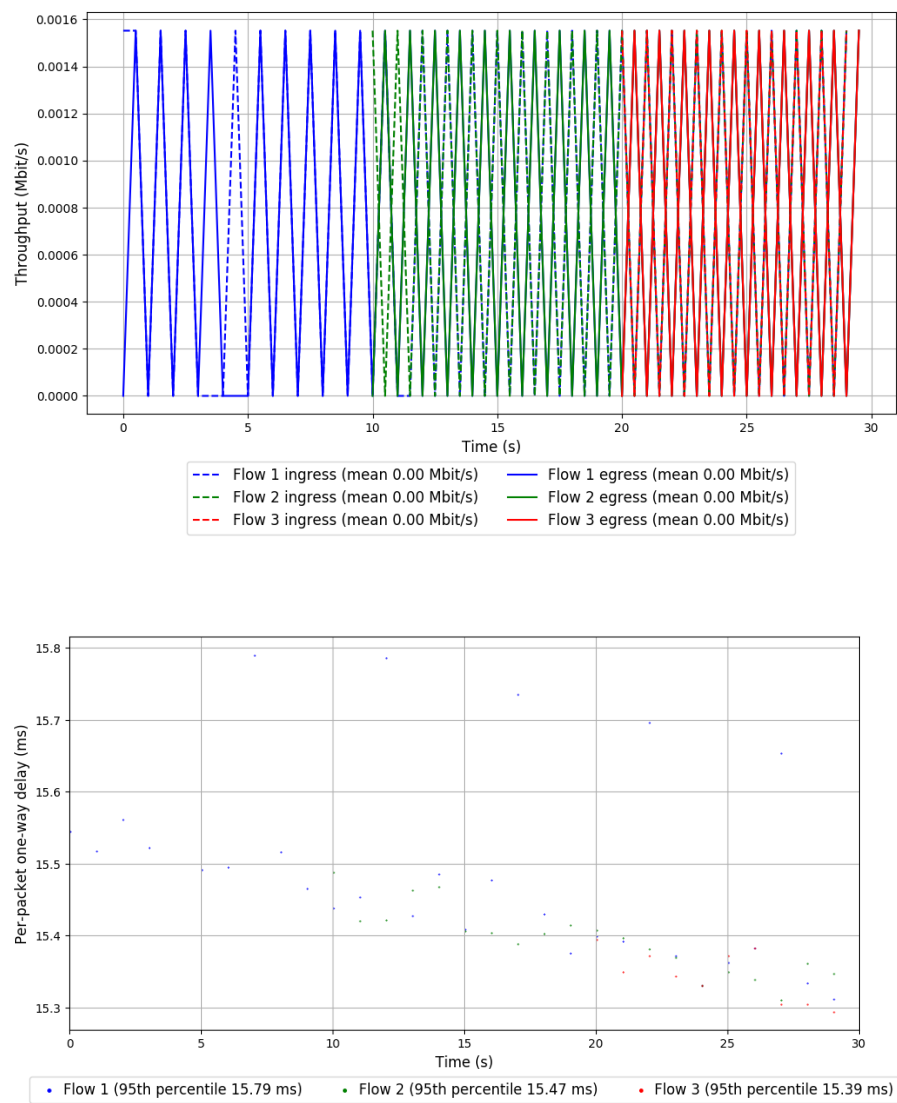
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 15.394 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link

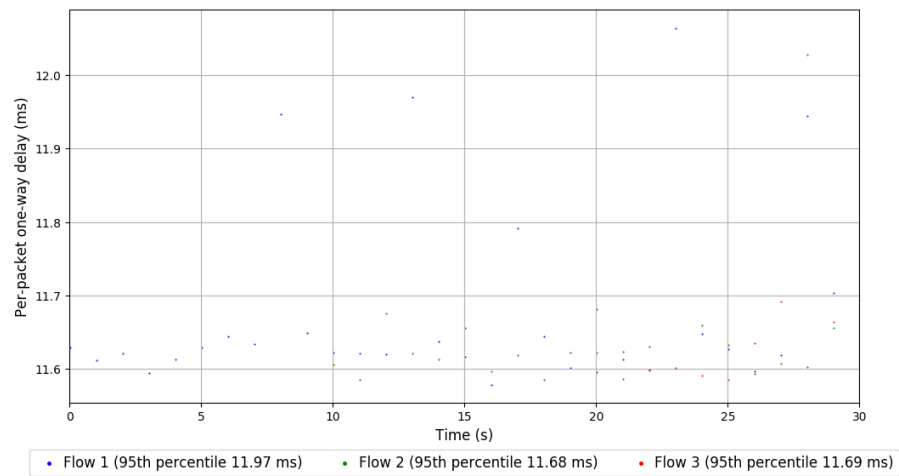
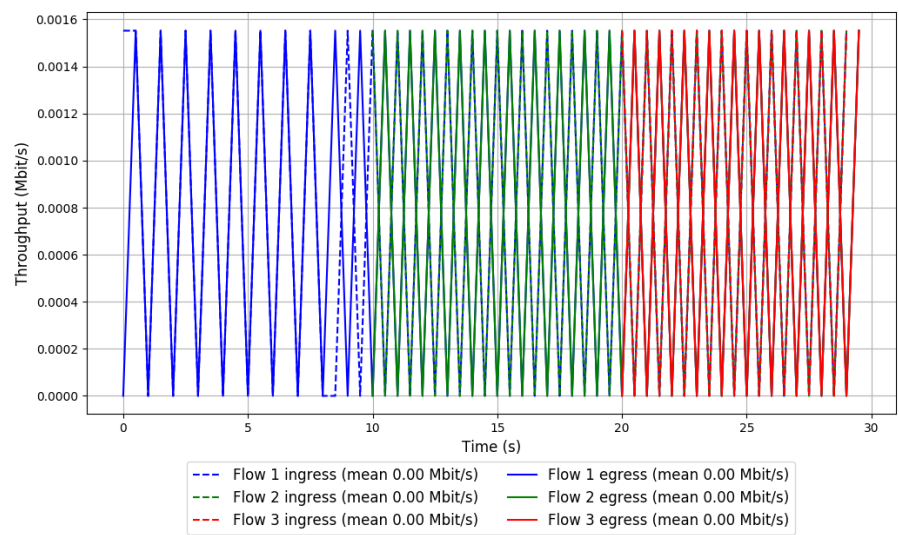


Run 2: Statistics of Verus

Start at: 2018-05-22 15:59:01
End at: 2018-05-22 15:59:31
Local clock offset: -0.002 ms
Remote clock offset: 3.513 ms

Below is generated by plot.py at 2018-05-22 19:06:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 11.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 11.970 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 11.682 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 11.692 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

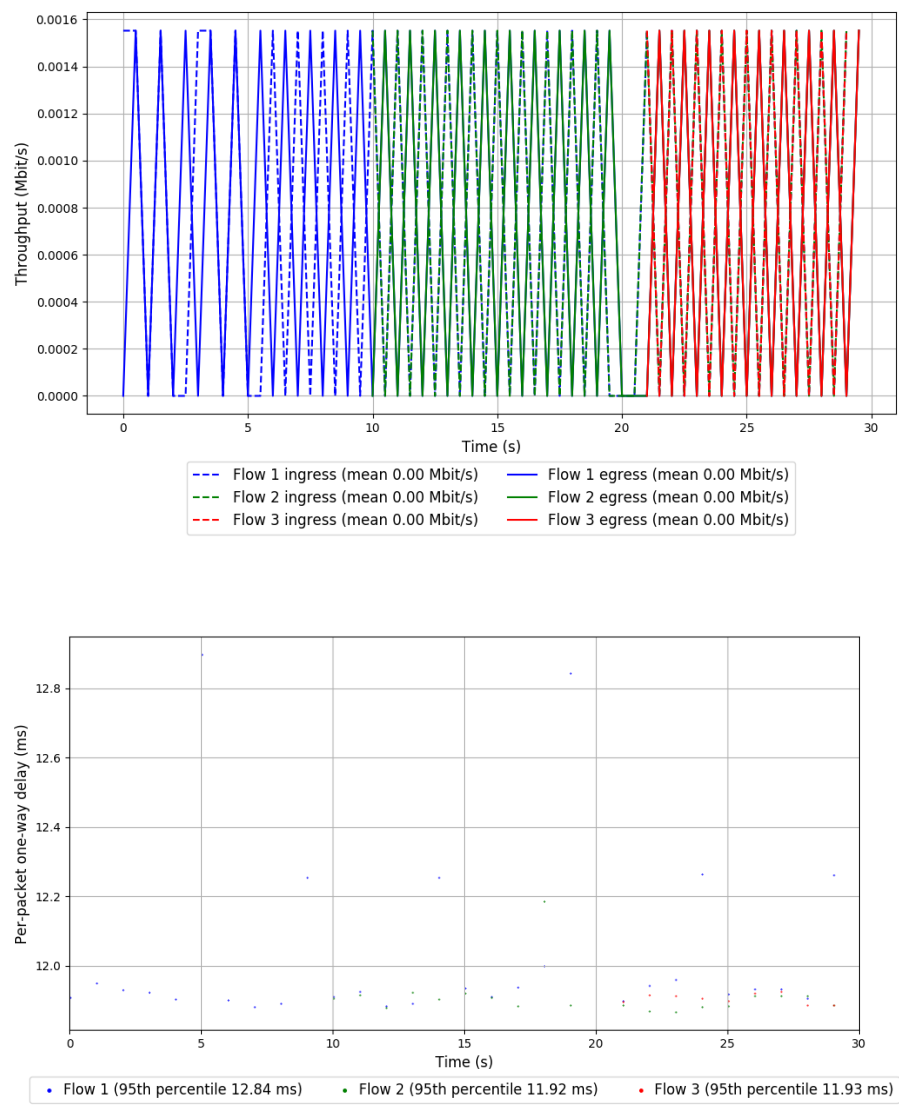


Run 3: Statistics of Verus

Start at: 2018-05-22 16:18:19
End at: 2018-05-22 16:18:49
Local clock offset: -0.582 ms
Remote clock offset: 3.611 ms

Below is generated by plot.py at 2018-05-22 19:06:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 12.261 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 12.844 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 11.922 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 11.926 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

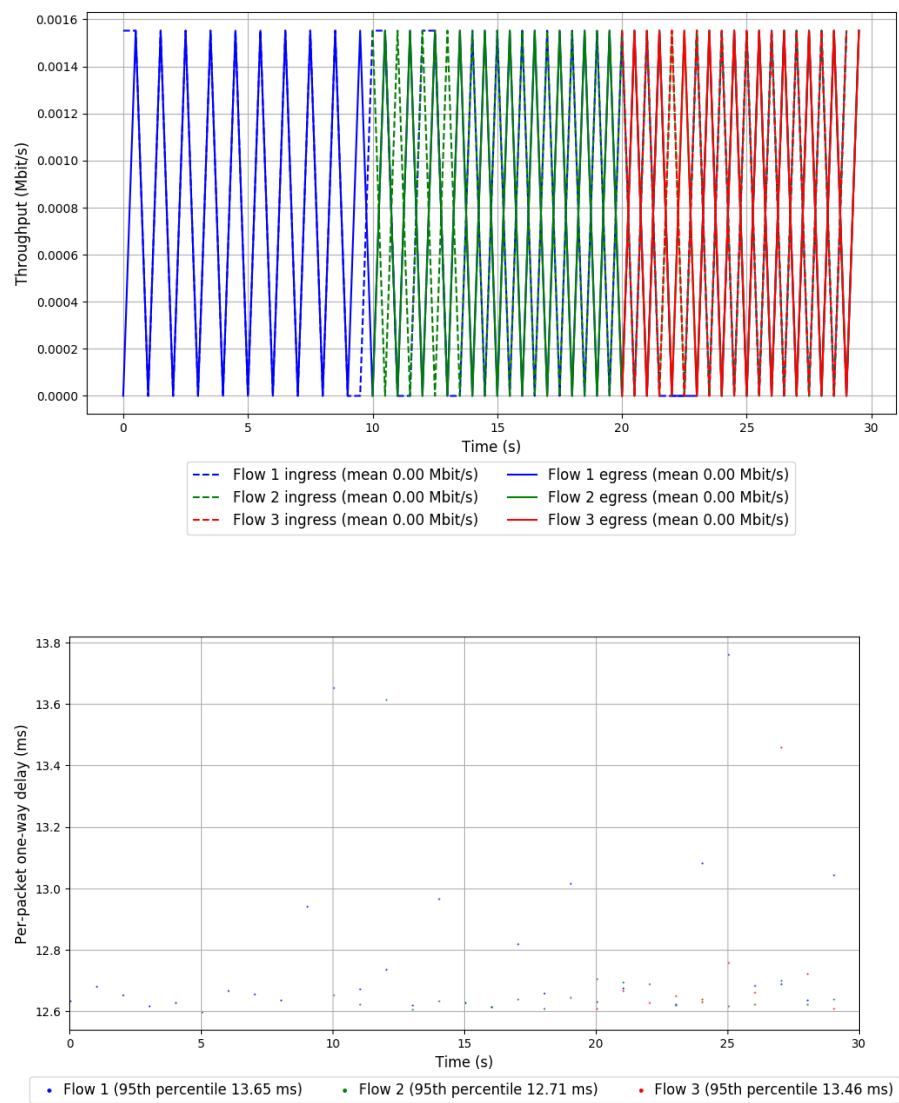


Run 4: Statistics of Verus

Start at: 2018-05-22 16:37:58
End at: 2018-05-22 16:38:28
Local clock offset: -2.216 ms
Remote clock offset: 4.446 ms

Below is generated by plot.py at 2018-05-22 19:06:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.459 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.655 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 12.706 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.459 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

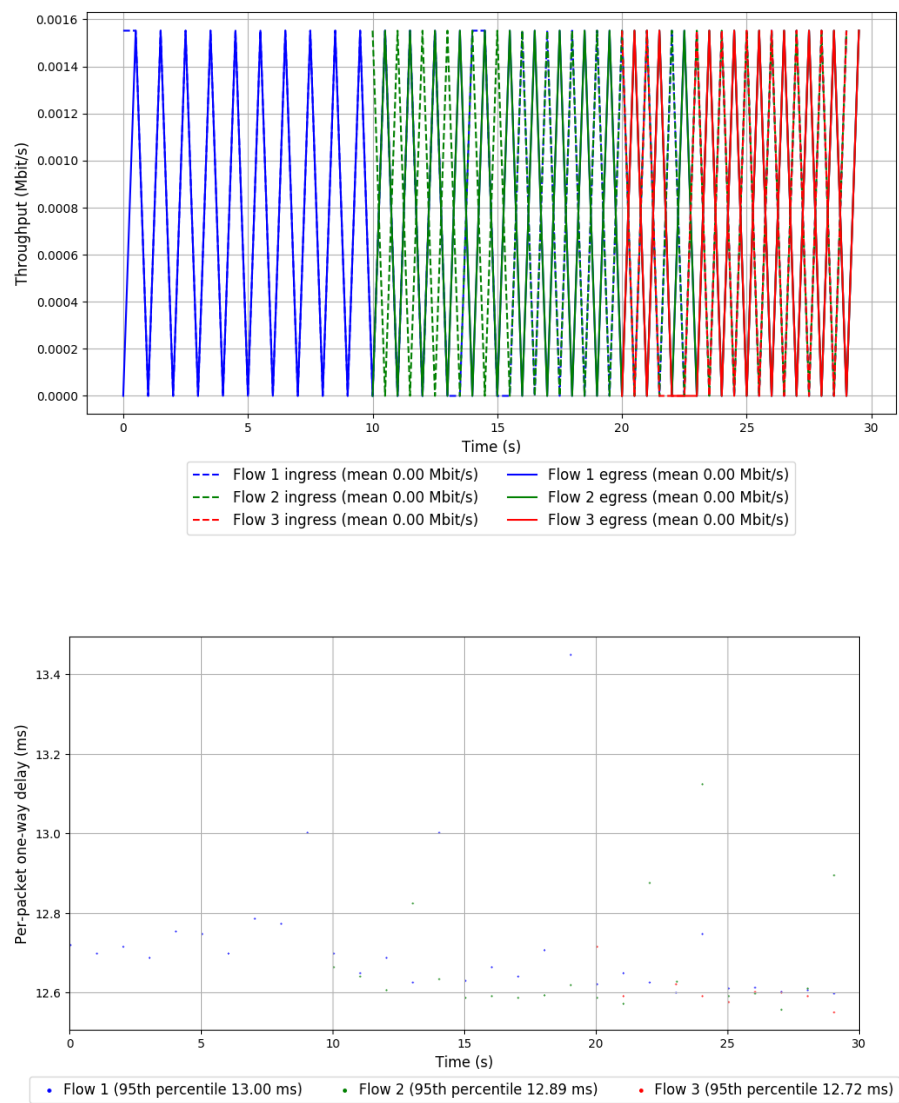


Run 5: Statistics of Verus

Start at: 2018-05-22 16:57:58
End at: 2018-05-22 16:58:28
Local clock offset: -2.881 ms
Remote clock offset: -3.156 ms

Below is generated by plot.py at 2018-05-22 19:06:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.002 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.003 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 12.895 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 12.717 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link

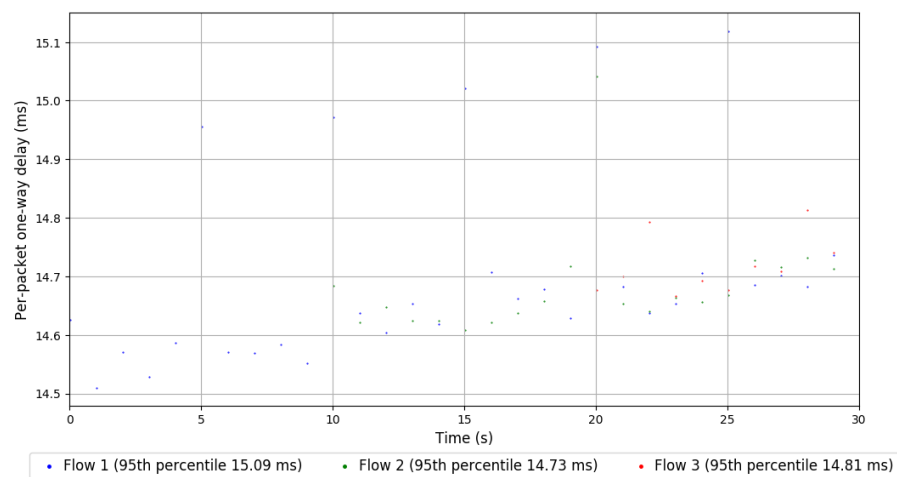
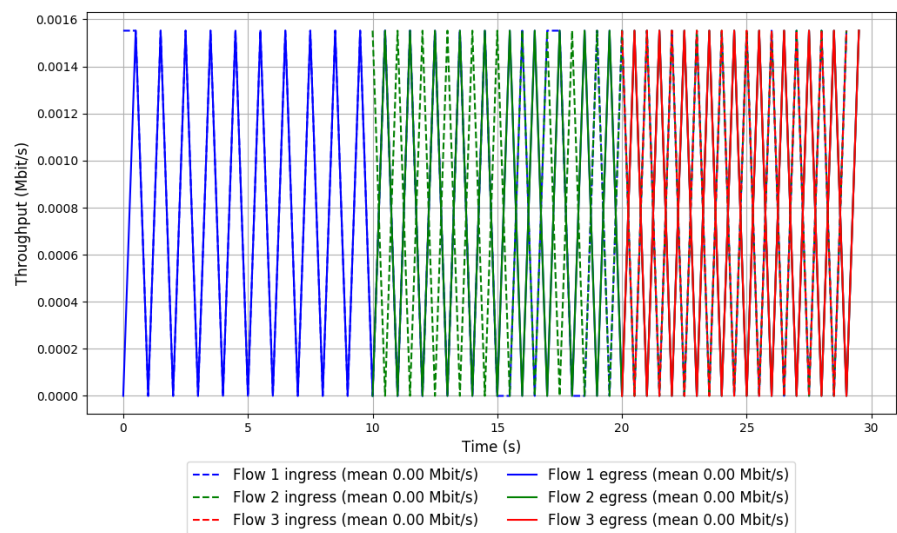


Run 6: Statistics of Verus

Start at: 2018-05-22 17:17:50
End at: 2018-05-22 17:18:20
Local clock offset: -1.894 ms
Remote clock offset: -6.472 ms

Below is generated by plot.py at 2018-05-22 19:06:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 15.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 15.092 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 14.732 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 14.813 ms
Loss rate: 0.00%

Run 6: Report of Verus — Data Link

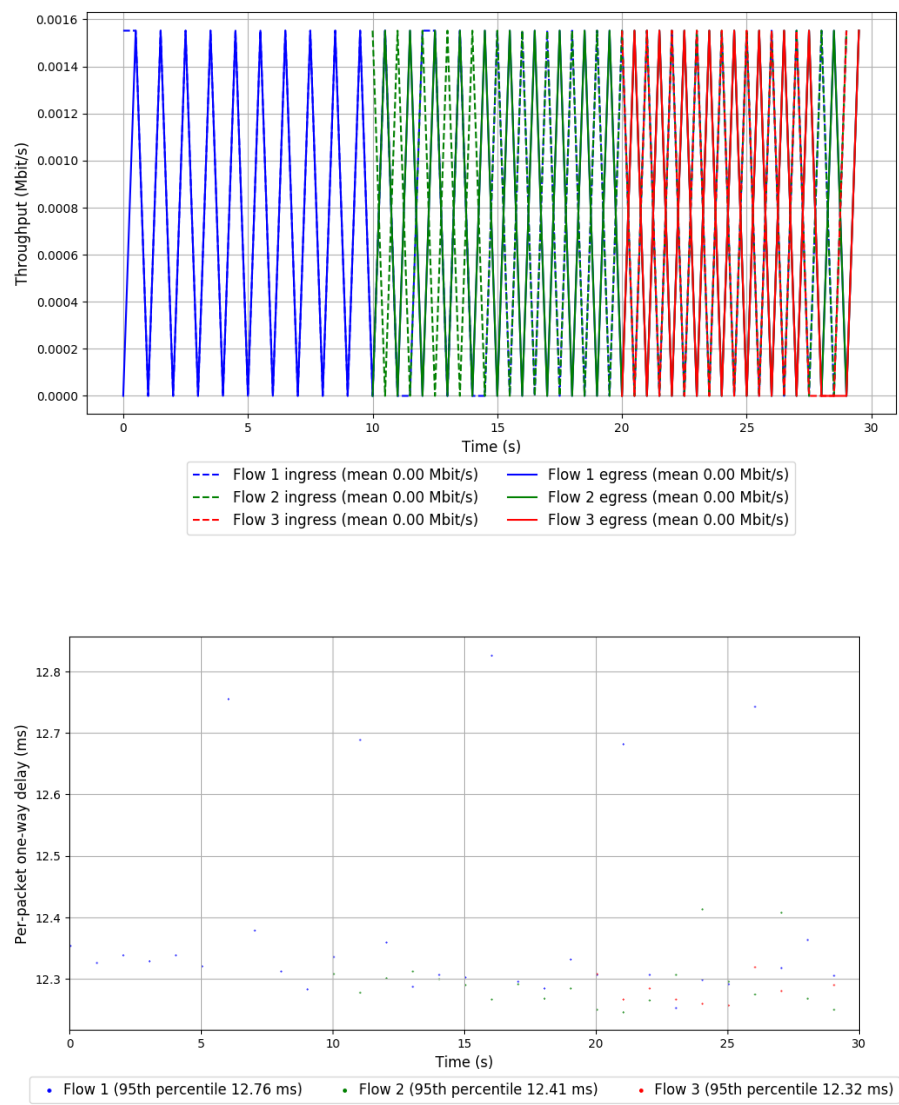


Run 7: Statistics of Verus

Start at: 2018-05-22 17:37:13
End at: 2018-05-22 17:37:43
Local clock offset: -2.031 ms
Remote clock offset: -3.712 ms

Below is generated by plot.py at 2018-05-22 19:06:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 12.689 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 12.756 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 12.408 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 12.319 ms
Loss rate: 0.00%

Run 7: Report of Verus — Data Link

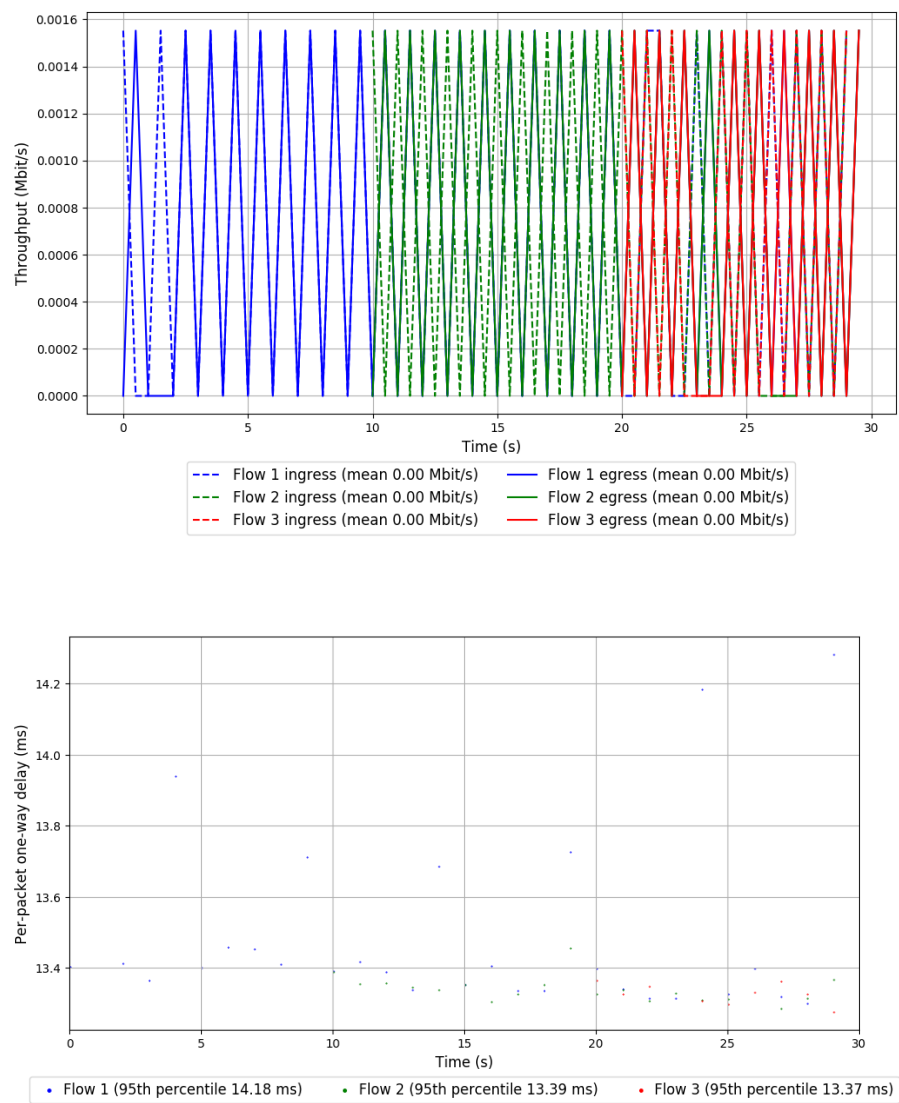


Run 8: Statistics of Verus

Start at: 2018-05-22 17:56:38
End at: 2018-05-22 17:57:08
Local clock offset: 0.818 ms
Remote clock offset: -5.533 ms

Below is generated by plot.py at 2018-05-22 19:06:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 14.184 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.390 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.366 ms
Loss rate: 0.00%

Run 8: Report of Verus — Data Link

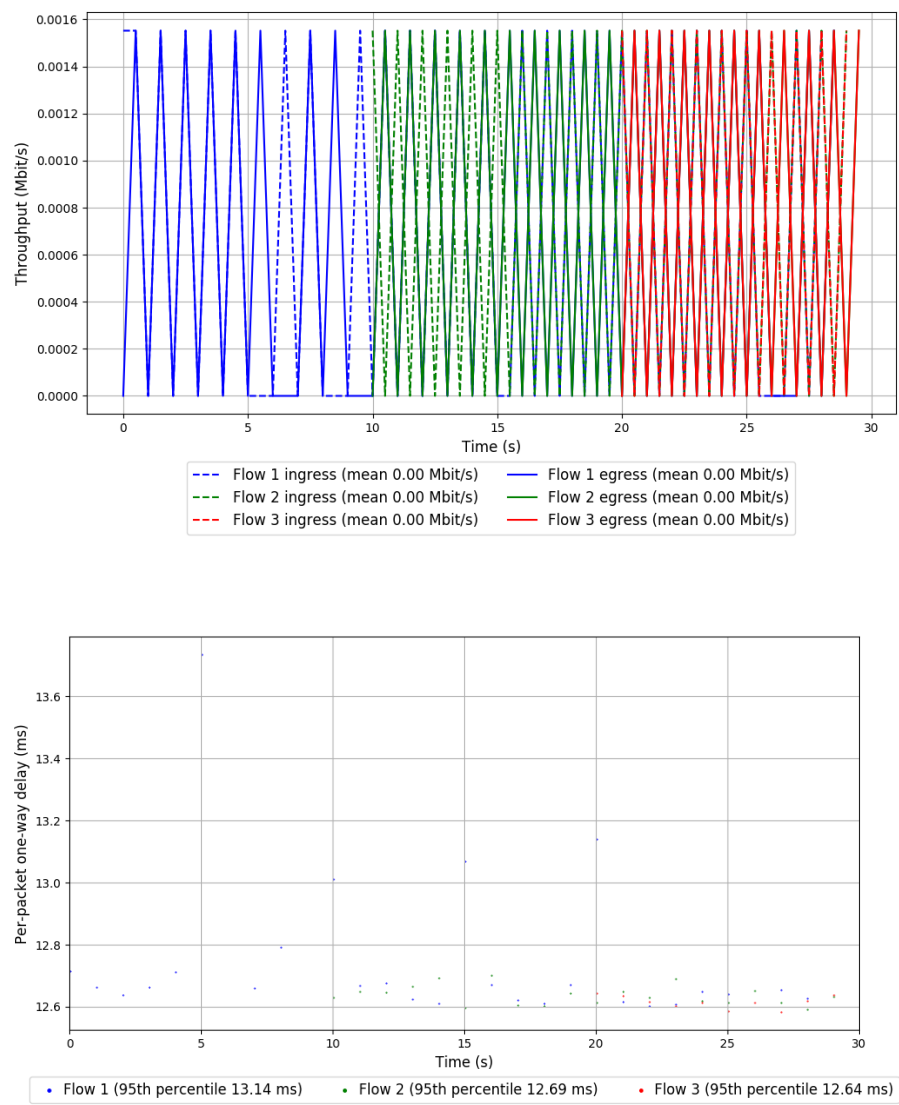


Run 9: Statistics of Verus

Start at: 2018-05-22 18:15:52
End at: 2018-05-22 18:16:22
Local clock offset: -0.497 ms
Remote clock offset: -9.016 ms

Below is generated by plot.py at 2018-05-22 19:06:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.010 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.140 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 12.692 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 12.644 ms
Loss rate: 0.00%

Run 9: Report of Verus — Data Link

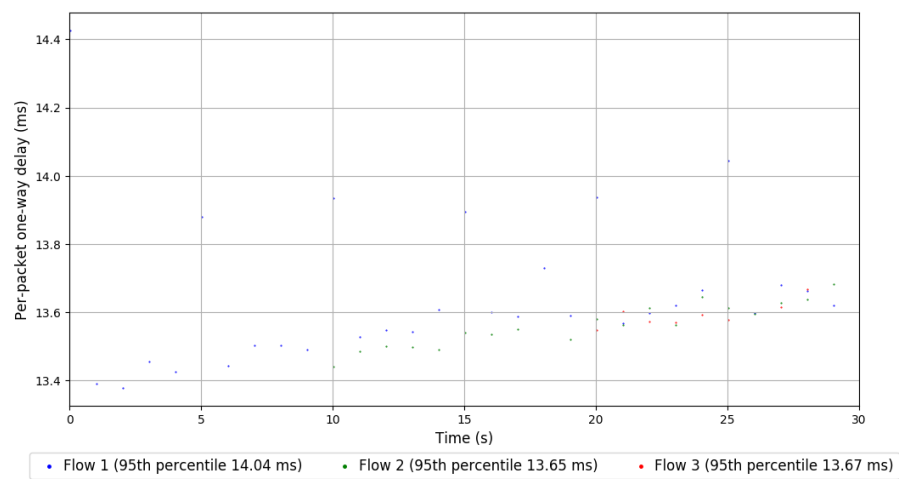
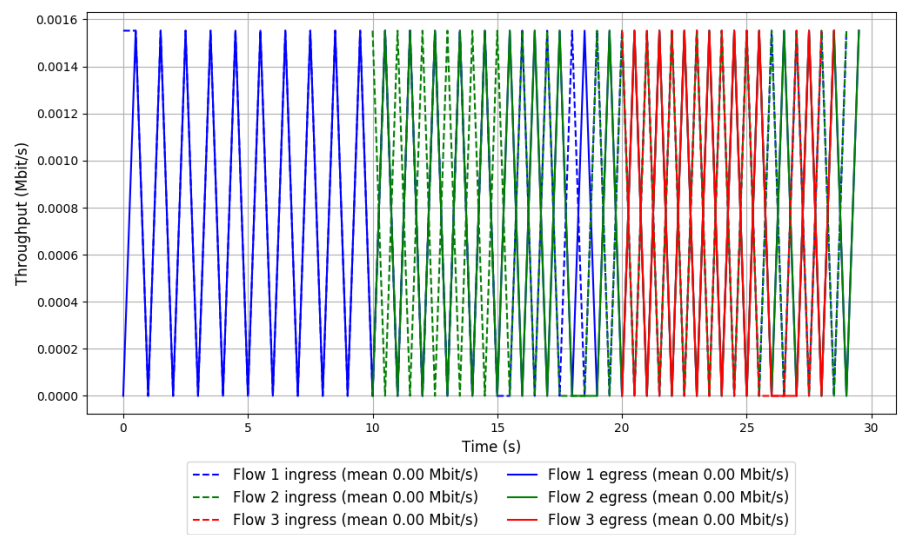


Run 10: Statistics of Verus

Start at: 2018-05-22 18:35:04
End at: 2018-05-22 18:35:34
Local clock offset: -0.607 ms
Remote clock offset: -2.796 ms

Below is generated by plot.py at 2018-05-22 19:06:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.934 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 14.045 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.646 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 13.668 ms
Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-22 15:44:12

End at: 2018-05-22 15:44:42

Local clock offset: -0.596 ms

Remote clock offset: 4.762 ms

Below is generated by plot.py at 2018-05-22 19:06:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.97 Mbit/s

95th percentile per-packet one-way delay: 35.463 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 51.70 Mbit/s

95th percentile per-packet one-way delay: 39.778 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 36.82 Mbit/s

95th percentile per-packet one-way delay: 28.362 ms

Loss rate: 0.20%

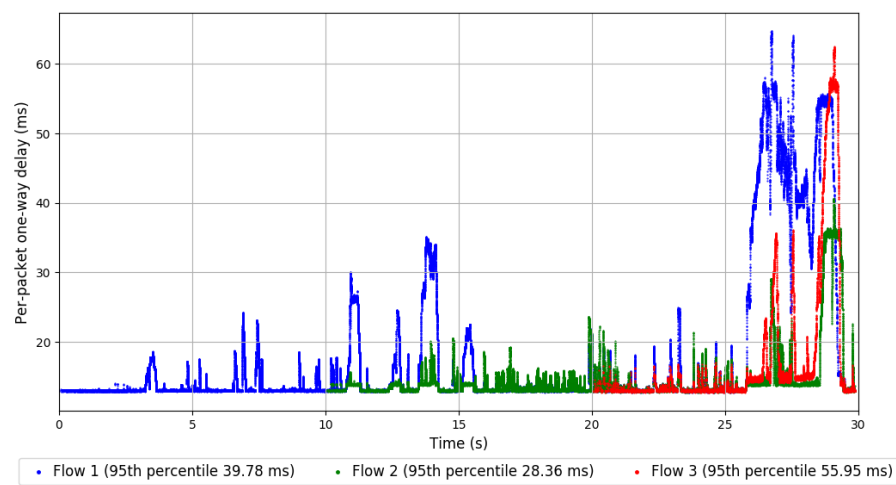
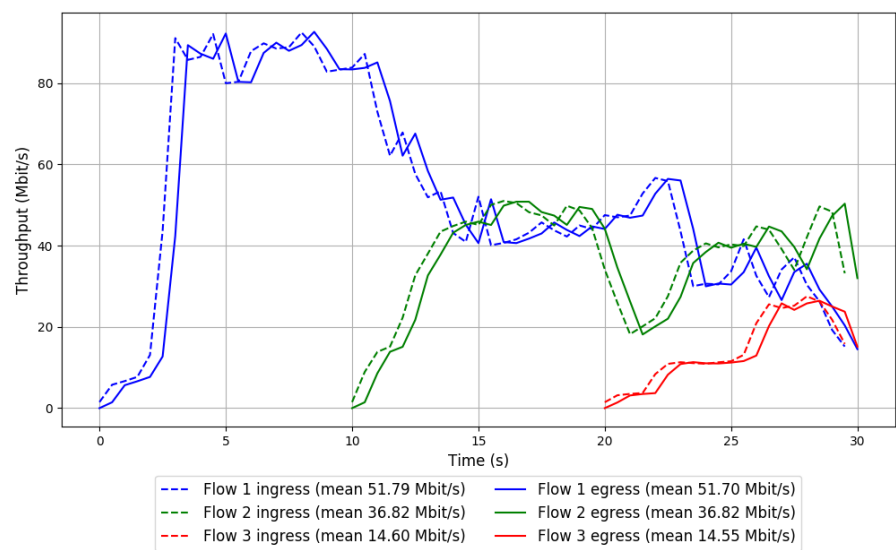
-- Flow 3:

Average throughput: 14.55 Mbit/s

95th percentile per-packet one-way delay: 55.955 ms

Loss rate: 0.65%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-22 16:03:41

End at: 2018-05-22 16:04:11

Local clock offset: -0.294 ms

Remote clock offset: 3.162 ms

Below is generated by plot.py at 2018-05-22 19:06:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.54 Mbit/s

95th percentile per-packet one-way delay: 46.885 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 44.76 Mbit/s

95th percentile per-packet one-way delay: 48.058 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 30.04 Mbit/s

95th percentile per-packet one-way delay: 36.769 ms

Loss rate: 0.23%

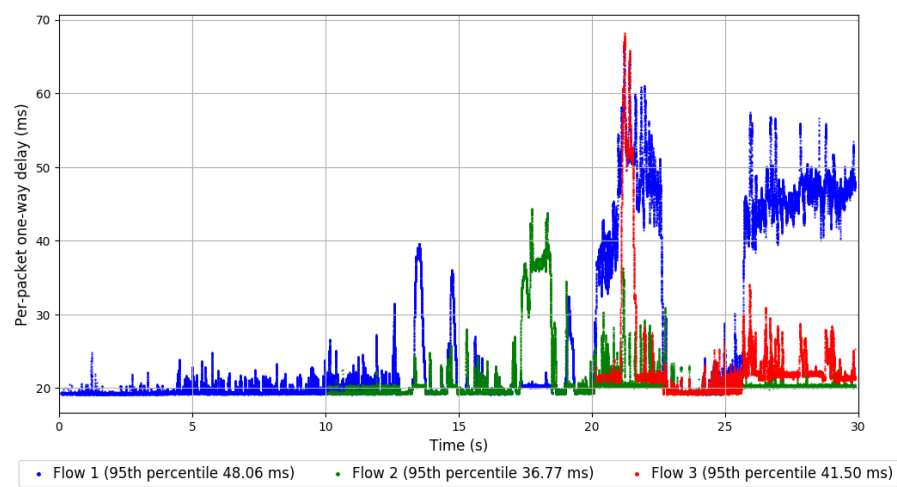
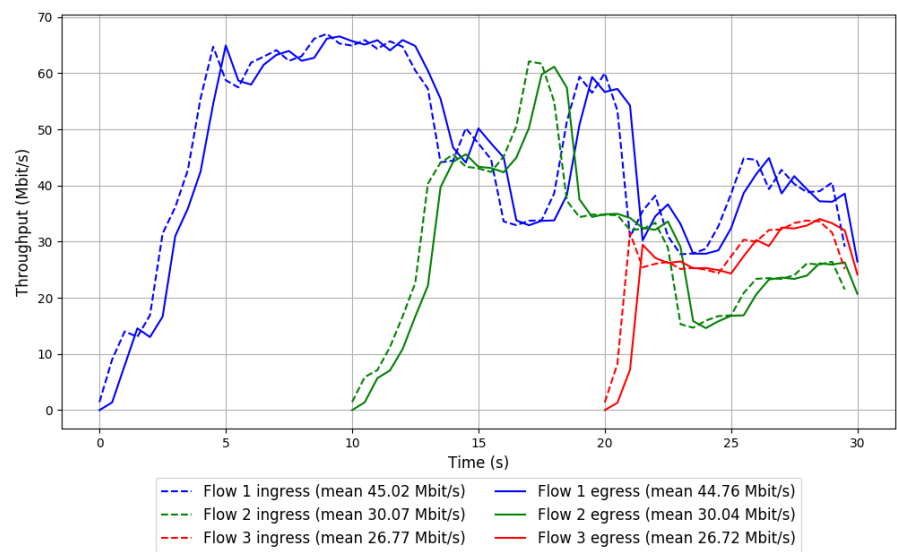
-- Flow 3:

Average throughput: 26.72 Mbit/s

95th percentile per-packet one-way delay: 41.502 ms

Loss rate: 0.49%

Run 2: Report of PCC-Vivace — Data Link

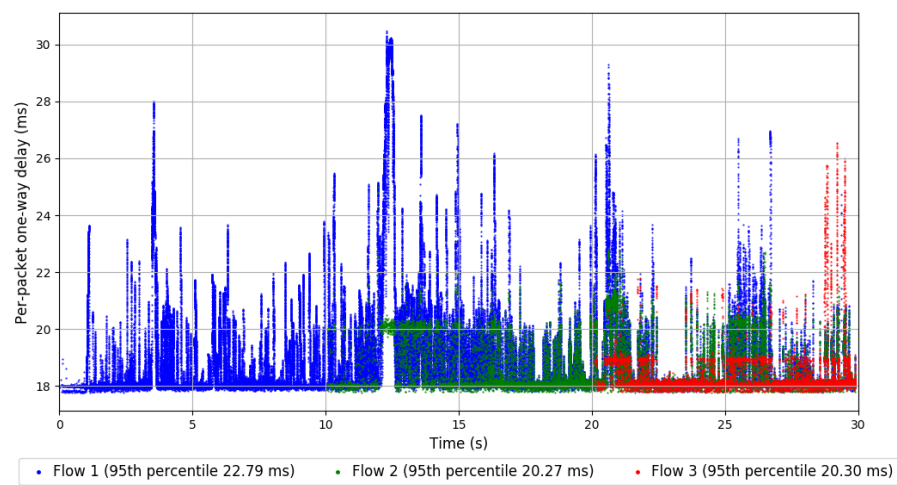
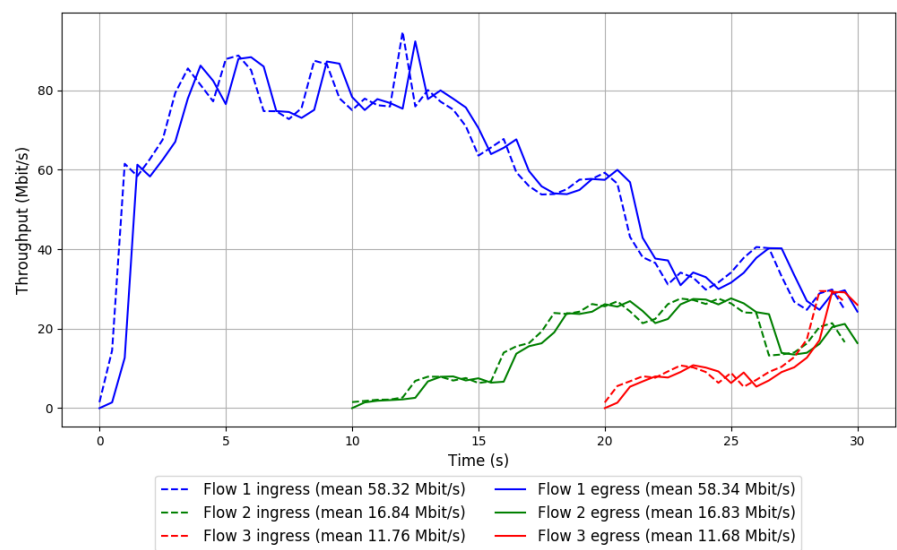


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-22 16:23:06
End at: 2018-05-22 16:23:36
Local clock offset: -2.332 ms
Remote clock offset: -3.856 ms

Below is generated by plot.py at 2018-05-22 19:06:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.38 Mbit/s
95th percentile per-packet one-way delay: 22.080 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 58.34 Mbit/s
95th percentile per-packet one-way delay: 22.791 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 16.83 Mbit/s
95th percentile per-packet one-way delay: 20.271 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 20.298 ms
Loss rate: 0.88%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

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

End at: 2018-05-22 16:43:12

Local clock offset: -3.073 ms

Remote clock offset: 3.867 ms

Below is generated by plot.py at 2018-05-22 19:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.19 Mbit/s

95th percentile per-packet one-way delay: 49.033 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 49.273 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 35.38 Mbit/s

95th percentile per-packet one-way delay: 16.743 ms

Loss rate: 0.18%

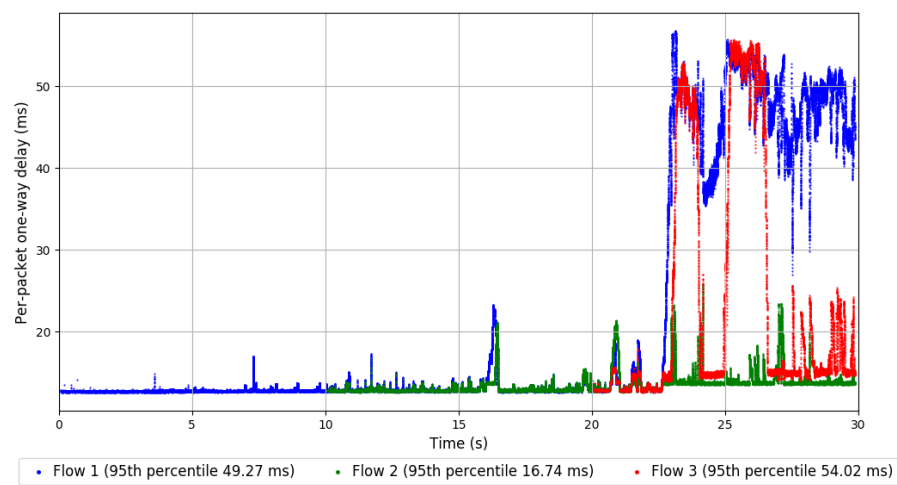
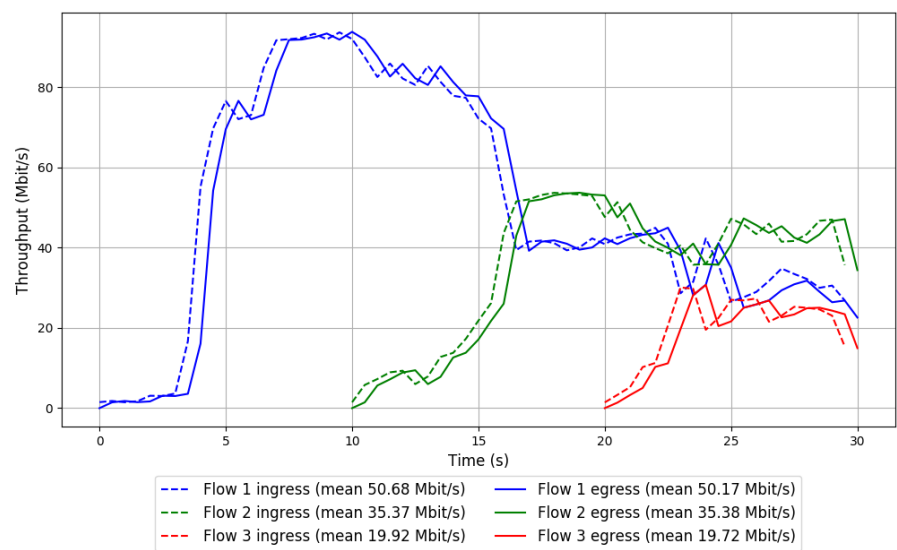
-- Flow 3:

Average throughput: 19.72 Mbit/s

95th percentile per-packet one-way delay: 54.017 ms

Loss rate: 1.23%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-22 17:02:42

End at: 2018-05-22 17:03:12

Local clock offset: -1.212 ms

Remote clock offset: -4.15 ms

Below is generated by plot.py at 2018-05-22 19:07:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.51 Mbit/s

95th percentile per-packet one-way delay: 28.177 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 58.71 Mbit/s

95th percentile per-packet one-way delay: 28.249 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 28.37 Mbit/s

95th percentile per-packet one-way delay: 29.900 ms

Loss rate: 0.47%

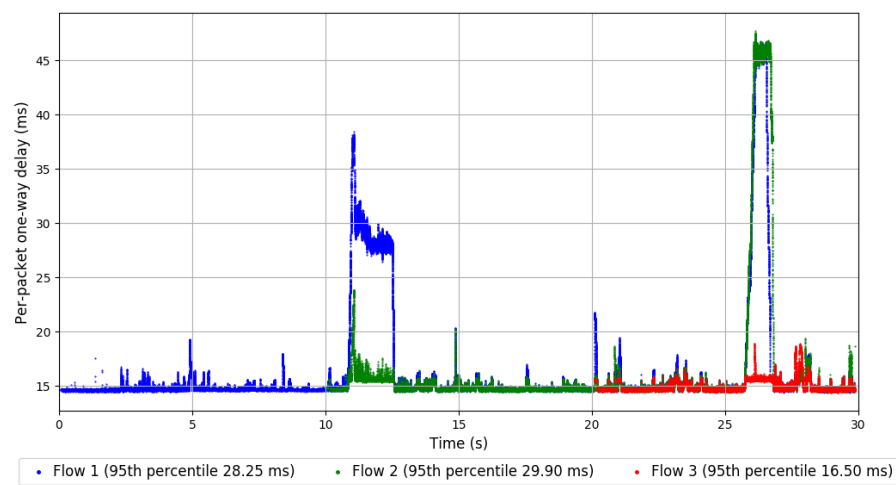
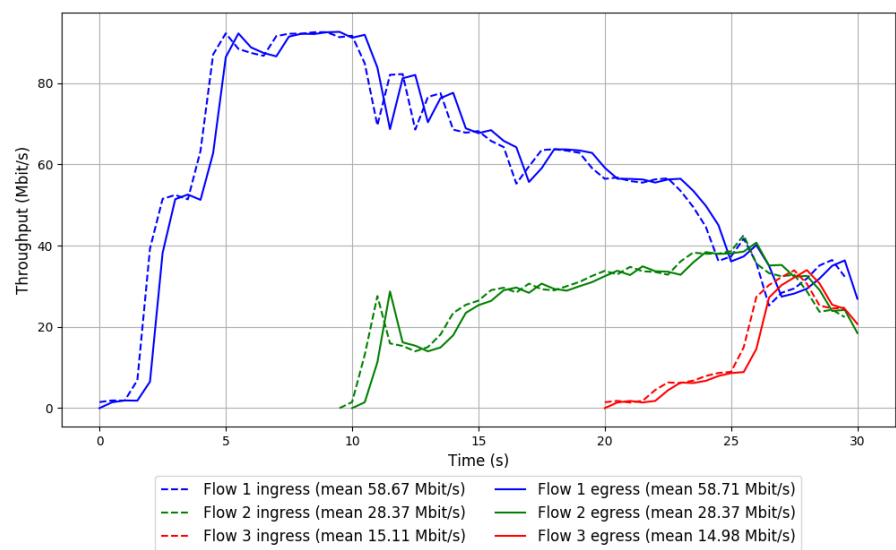
-- Flow 3:

Average throughput: 14.98 Mbit/s

95th percentile per-packet one-way delay: 16.499 ms

Loss rate: 1.61%

Run 5: Report of PCC-Vivace — Data Link

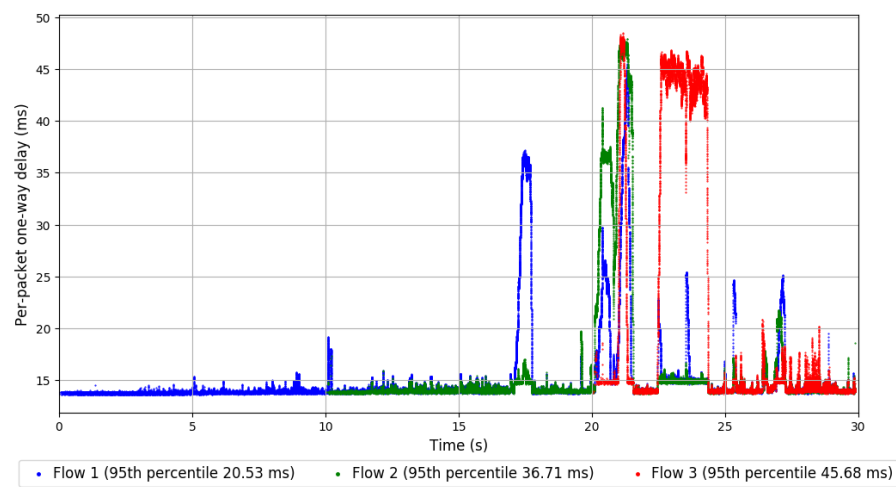
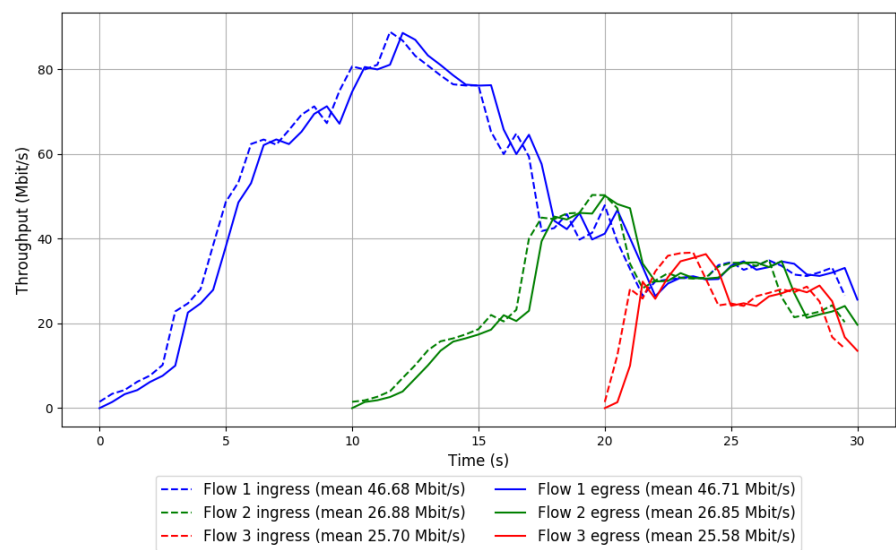


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-22 17:22:41
End at: 2018-05-22 17:23:11
Local clock offset: -2.842 ms
Remote clock offset: -5.035 ms

Below is generated by plot.py at 2018-05-22 19:07:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.99 Mbit/s
95th percentile per-packet one-way delay: 36.493 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 46.71 Mbit/s
95th percentile per-packet one-way delay: 20.527 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 26.85 Mbit/s
95th percentile per-packet one-way delay: 36.710 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 25.58 Mbit/s
95th percentile per-packet one-way delay: 45.680 ms
Loss rate: 0.71%

Run 6: Report of PCC-Vivace — Data Link

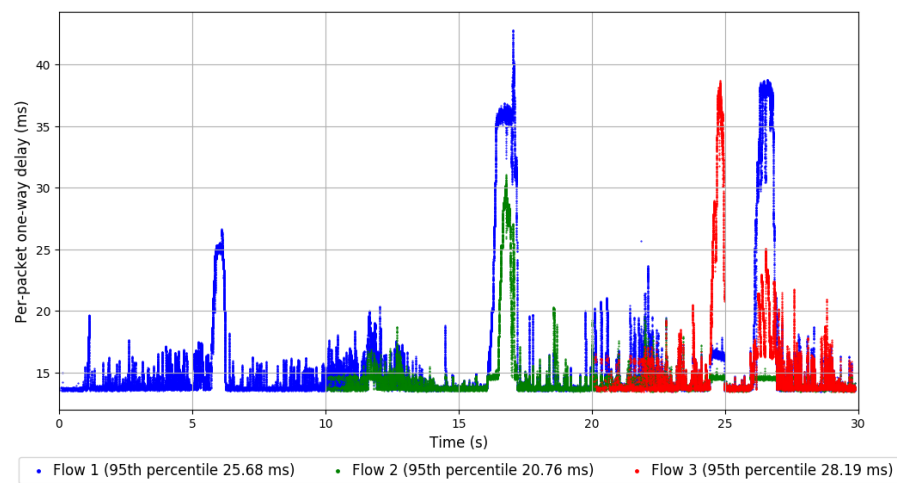
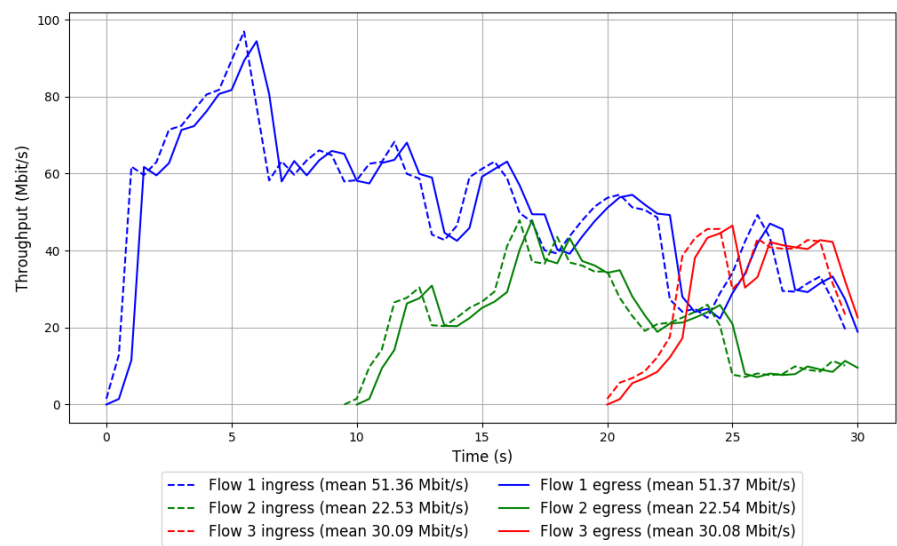


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-22 17:41:52
End at: 2018-05-22 17:42:22
Local clock offset: 0.031 ms
Remote clock offset: -3.302 ms

Below is generated by plot.py at 2018-05-22 19:07:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.28 Mbit/s
95th percentile per-packet one-way delay: 25.233 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 51.37 Mbit/s
95th percentile per-packet one-way delay: 25.675 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 22.54 Mbit/s
95th percentile per-packet one-way delay: 20.758 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 30.08 Mbit/s
95th percentile per-packet one-way delay: 28.187 ms
Loss rate: 0.30%

Run 7: Report of PCC-Vivace — Data Link

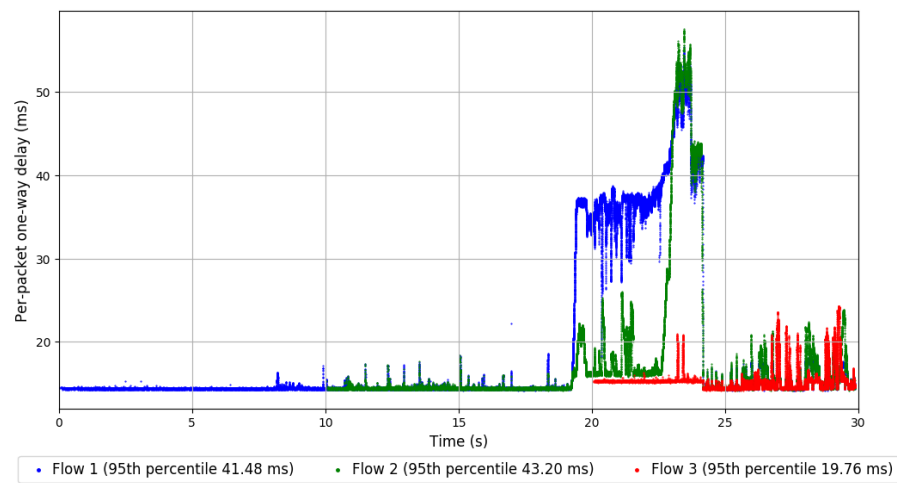
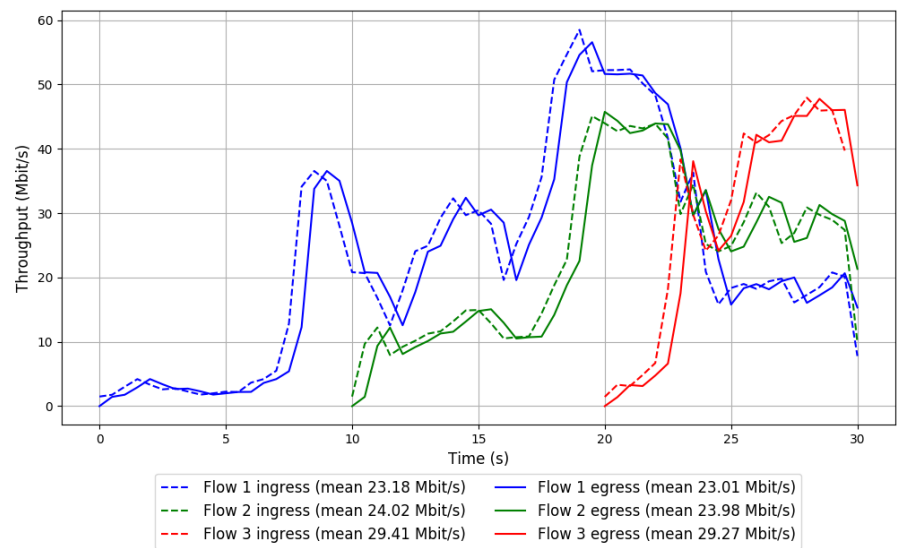


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-22 18:01:24
End at: 2018-05-22 18:01:54
Local clock offset: 1.347 ms
Remote clock offset: -6.887 ms

Below is generated by plot.py at 2018-05-22 19:07:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.60 Mbit/s
95th percentile per-packet one-way delay: 41.097 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 23.01 Mbit/s
95th percentile per-packet one-way delay: 41.477 ms
Loss rate: 1.89%
-- Flow 2:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 43.204 ms
Loss rate: 1.89%
-- Flow 3:
Average throughput: 29.27 Mbit/s
95th percentile per-packet one-way delay: 19.756 ms
Loss rate: 1.18%

Run 8: Report of PCC-Vivace — Data Link

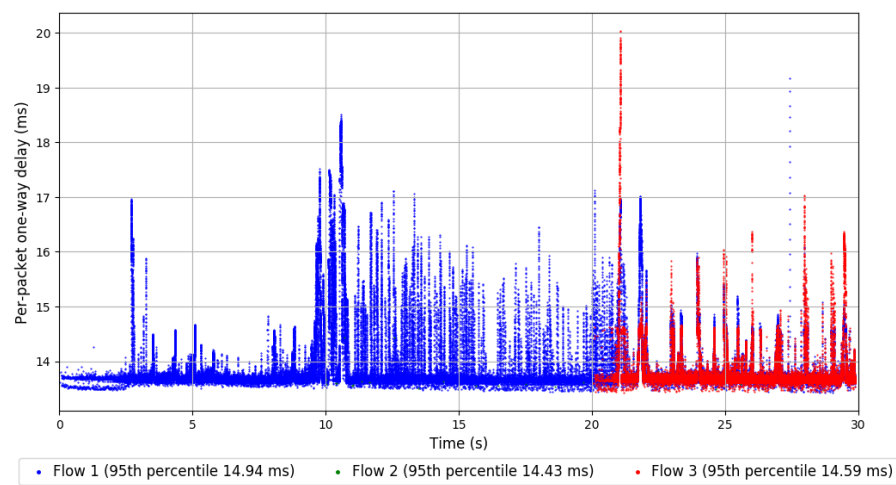
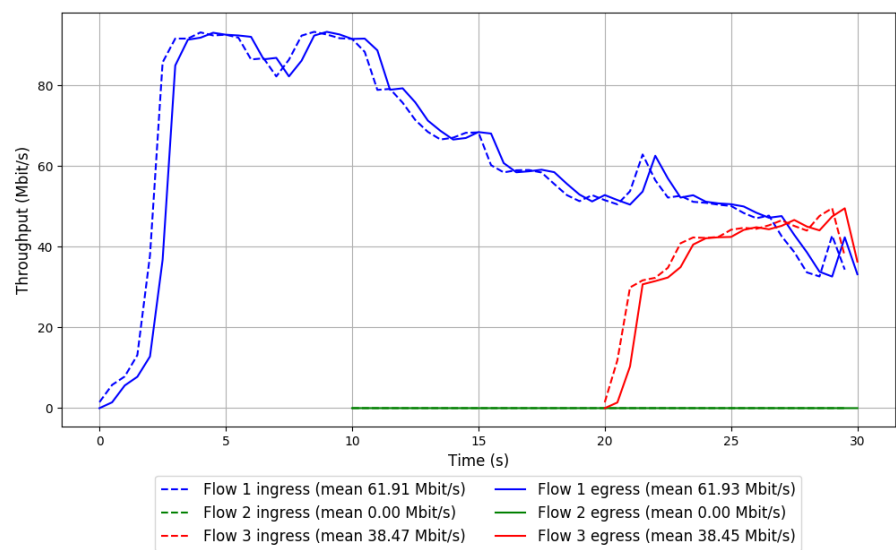


Run 9: Statistics of PCC-Vivace

Start at: 2018-05-22 18:20:34
End at: 2018-05-22 18:21:04
Local clock offset: 0.18 ms
Remote clock offset: -9.712 ms

Below is generated by plot.py at 2018-05-22 19:07:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 14.872 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 61.93 Mbit/s
95th percentile per-packet one-way delay: 14.941 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 14.429 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.45 Mbit/s
95th percentile per-packet one-way delay: 14.593 ms
Loss rate: 0.37%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

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

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

Local clock offset: 0.912 ms

Remote clock offset: -0.78 ms

Below is generated by plot.py at 2018-05-22 19:07:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.21 Mbit/s

95th percentile per-packet one-way delay: 26.469 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 52.60 Mbit/s

95th percentile per-packet one-way delay: 26.638 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 26.37 Mbit/s

95th percentile per-packet one-way delay: 20.586 ms

Loss rate: 0.18%

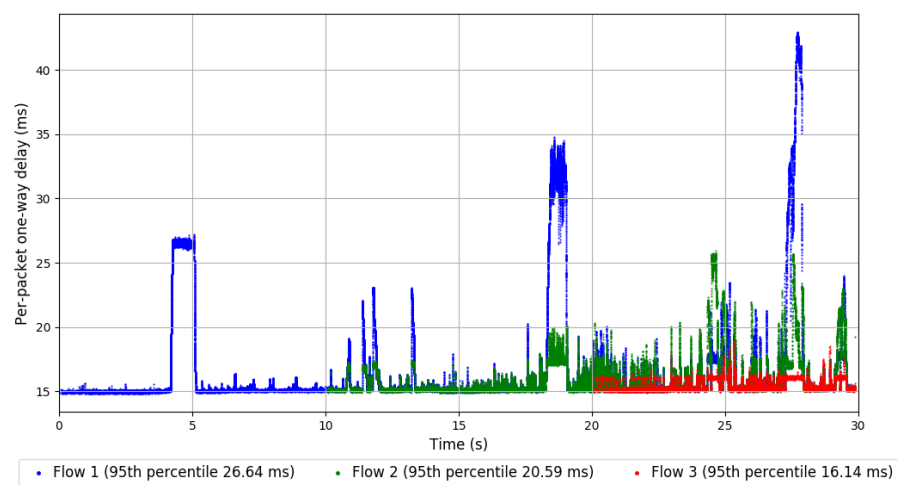
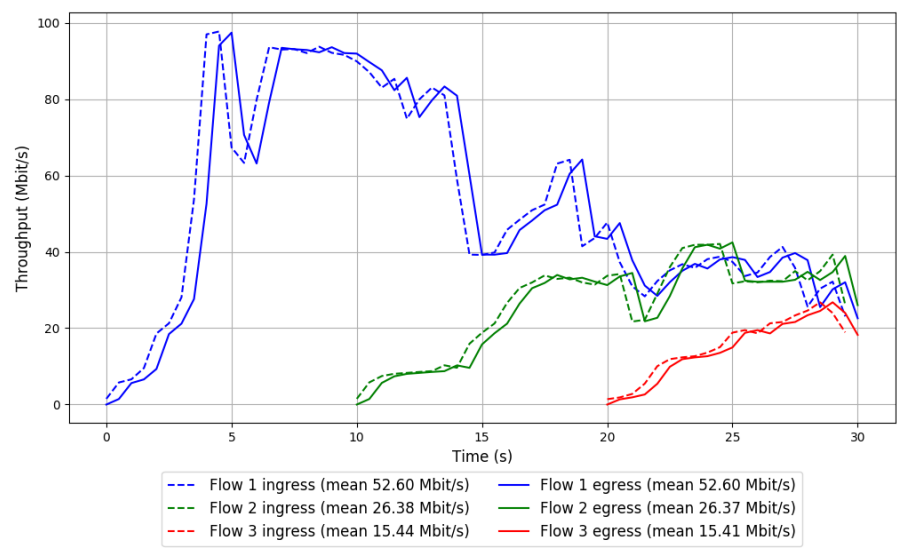
-- Flow 3:

Average throughput: 15.41 Mbit/s

95th percentile per-packet one-way delay: 16.144 ms

Loss rate: 0.48%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-05-22 15:30:47

End at: 2018-05-22 15:31:17

Local clock offset: 0.798 ms

Remote clock offset: 6.984 ms

Below is generated by plot.py at 2018-05-22 19:07:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.51 Mbit/s

95th percentile per-packet one-way delay: 16.909 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 16.817 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 16.959 ms

Loss rate: 0.00%

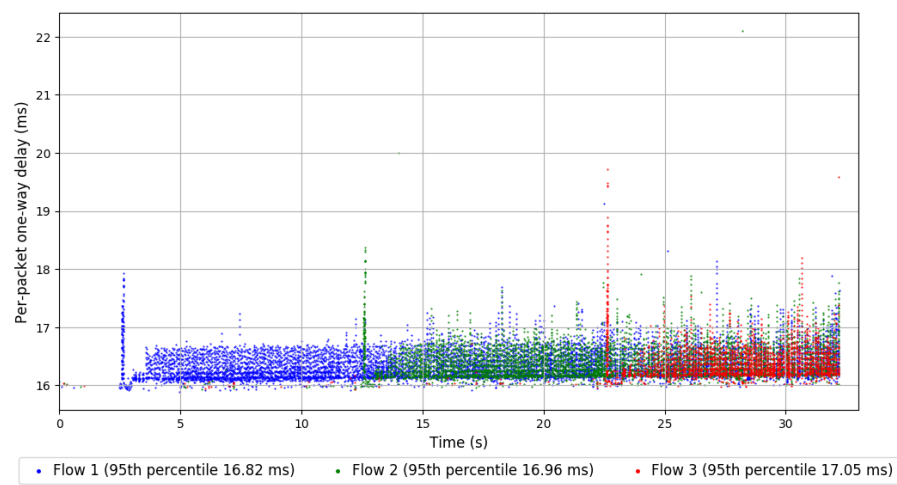
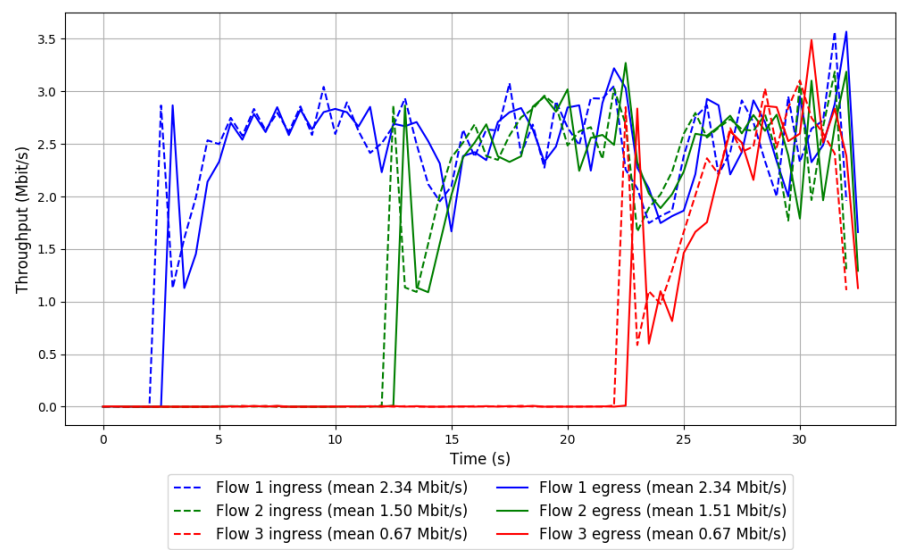
-- Flow 3:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 17.055 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-22 15:50:13

End at: 2018-05-22 15:50:43

Local clock offset: -0.515 ms

Remote clock offset: 2.31 ms

Below is generated by plot.py at 2018-05-22 19:07:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 15.784 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 15.728 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 15.775 ms

Loss rate: 0.00%

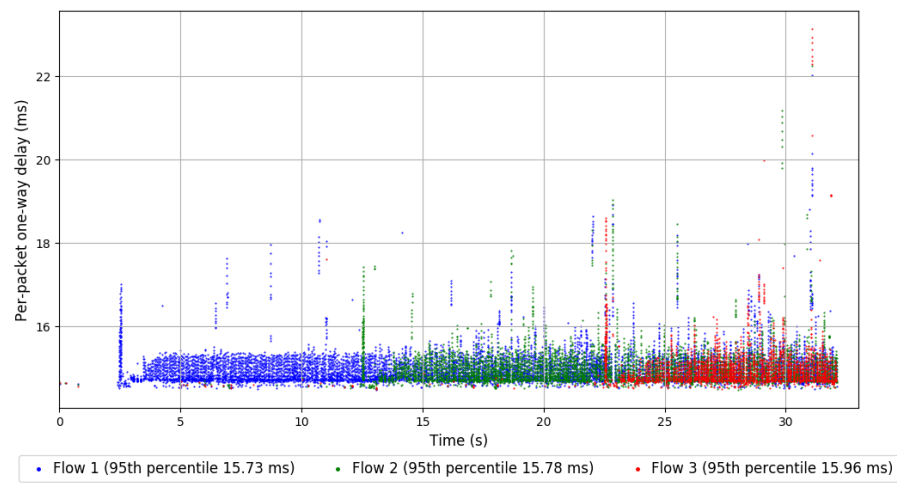
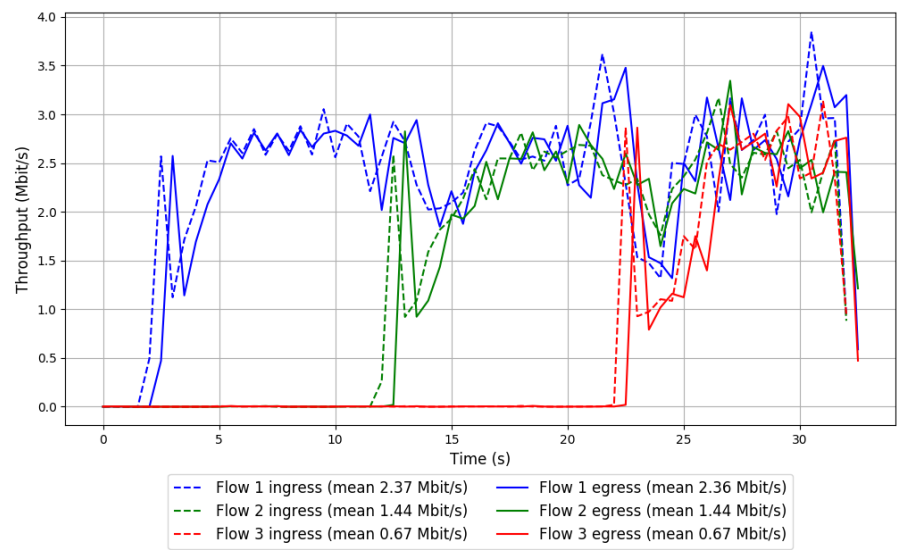
-- Flow 3:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 15.964 ms

Loss rate: 1.08%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-22 16:09:46

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

Local clock offset: 0.524 ms

Remote clock offset: 2.057 ms

Below is generated by plot.py at 2018-05-22 19:07:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.23 Mbit/s

95th percentile per-packet one-way delay: 22.682 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 3.16 Mbit/s

95th percentile per-packet one-way delay: 22.708 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 22.621 ms

Loss rate: 0.73%

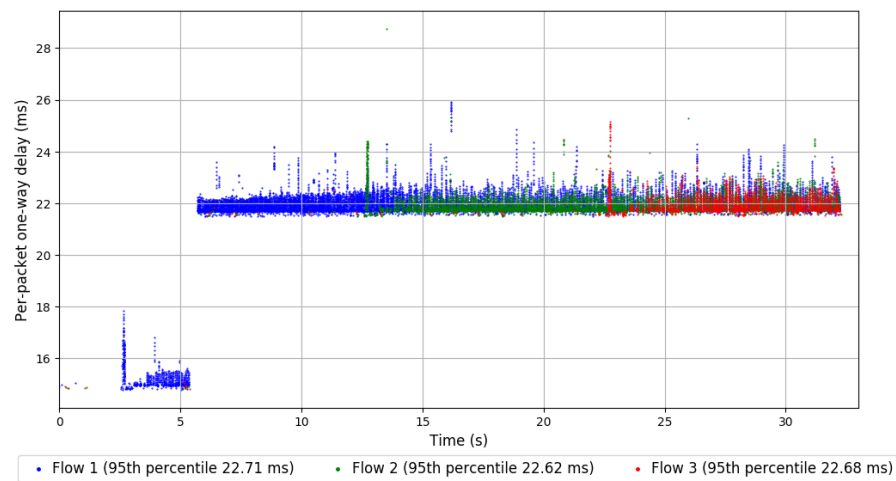
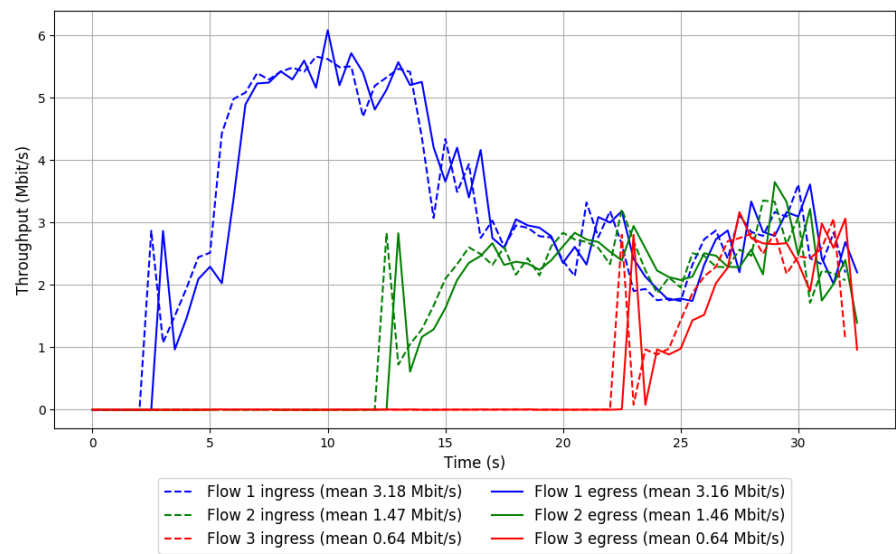
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 22.682 ms

Loss rate: 0.38%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-22 16:29:13

End at: 2018-05-22 16:29:43

Local clock offset: 1.895 ms

Remote clock offset: 4.308 ms

Below is generated by plot.py at 2018-05-22 19:07:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 17.280 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 17.279 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 17.327 ms

Loss rate: 0.00%

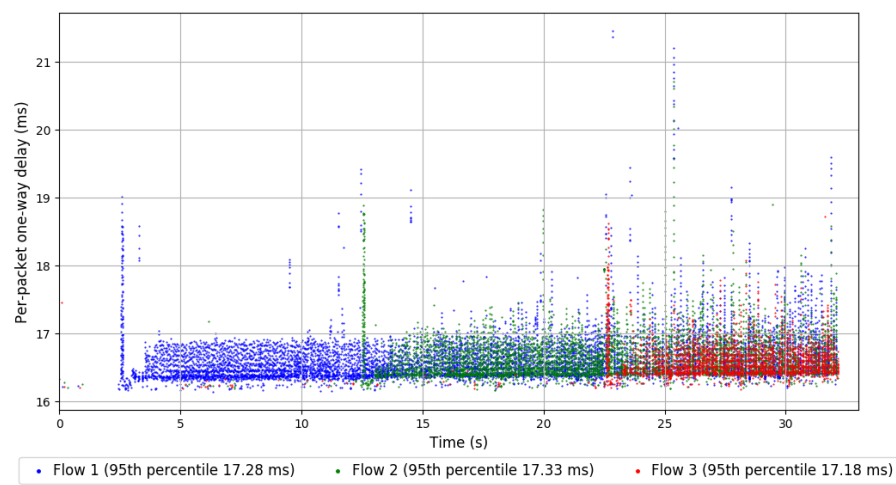
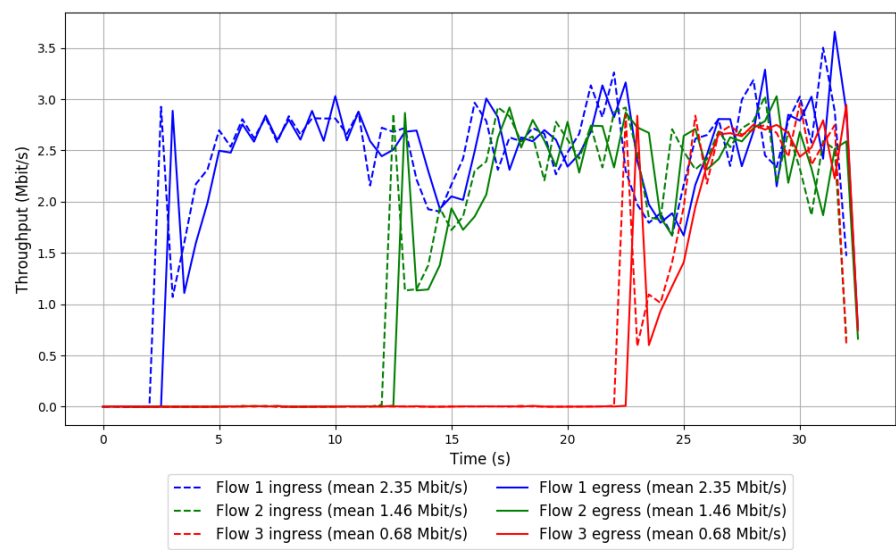
-- Flow 3:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 17.181 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-22 16:48:54

End at: 2018-05-22 16:49:24

Local clock offset: -0.845 ms

Remote clock offset: -6.27 ms

Below is generated by plot.py at 2018-05-22 19:07:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 21.682 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 21.557 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 21.744 ms

Loss rate: 0.00%

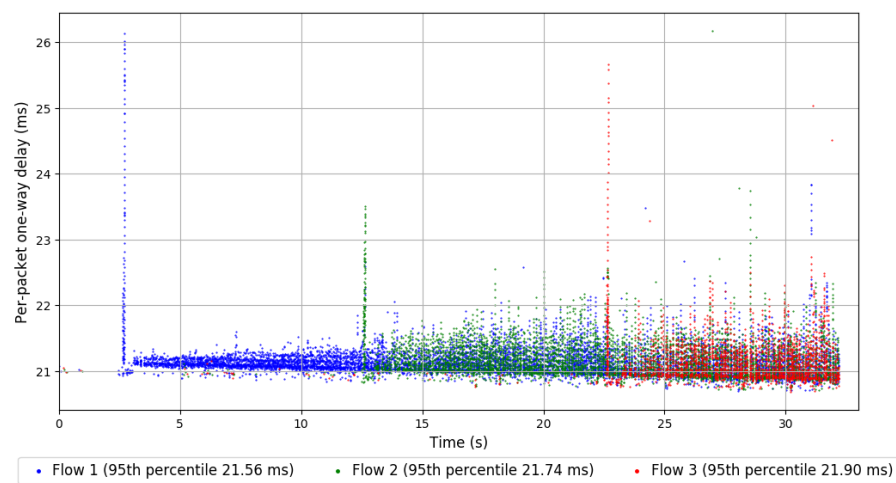
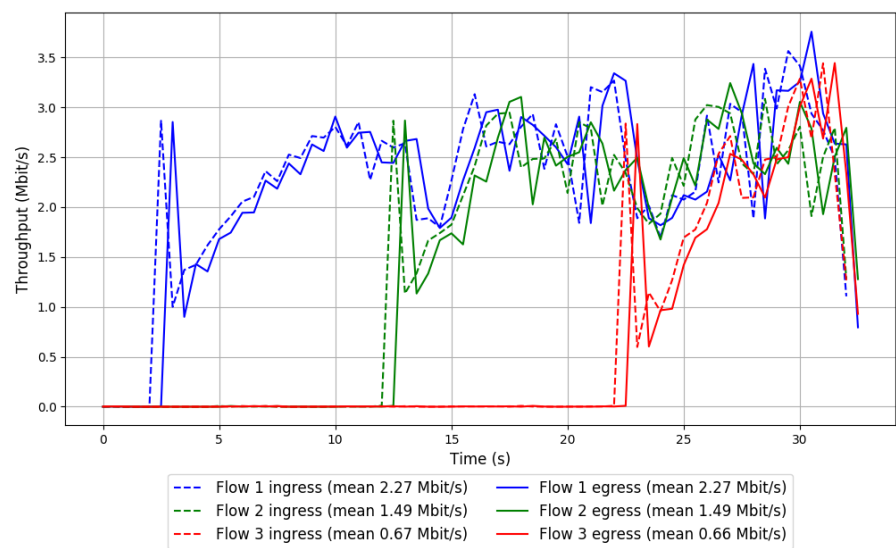
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 21.902 ms

Loss rate: 0.77%

Run 5: Report of WebRTC media — Data Link

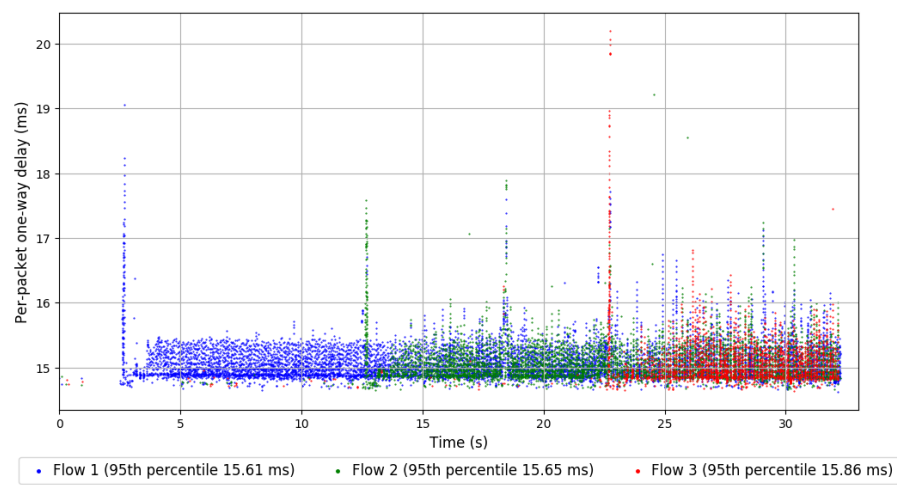
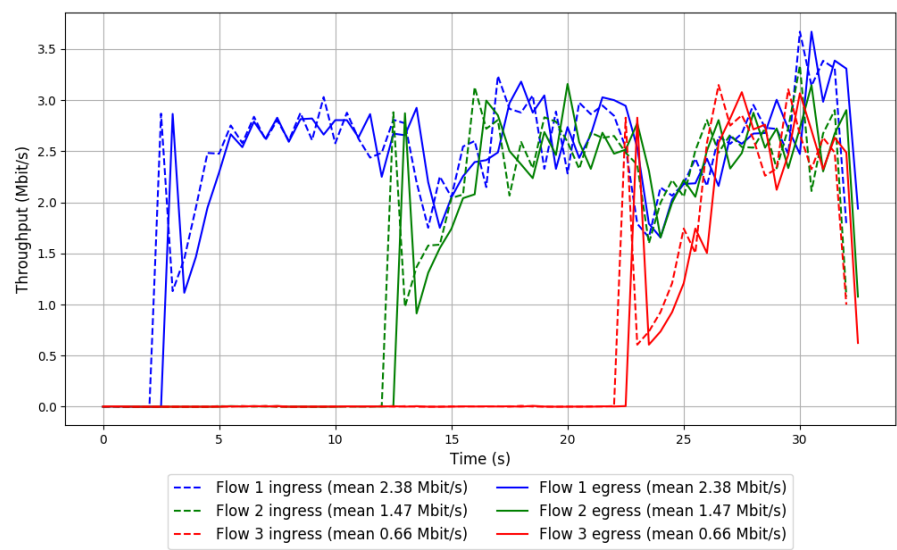


Run 6: Statistics of WebRTC media

Start at: 2018-05-22 17:09:01
End at: 2018-05-22 17:09:31
Local clock offset: -1.227 ms
Remote clock offset: -5.269 ms

Below is generated by plot.py at 2018-05-22 19:07:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 15.666 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 15.612 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 15.648 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 15.859 ms
Loss rate: 0.88%

Run 6: Report of WebRTC media — Data Link

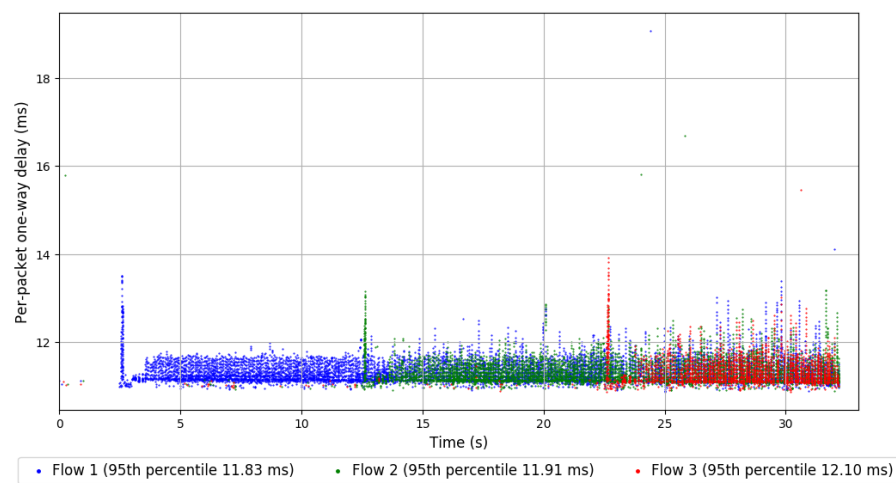
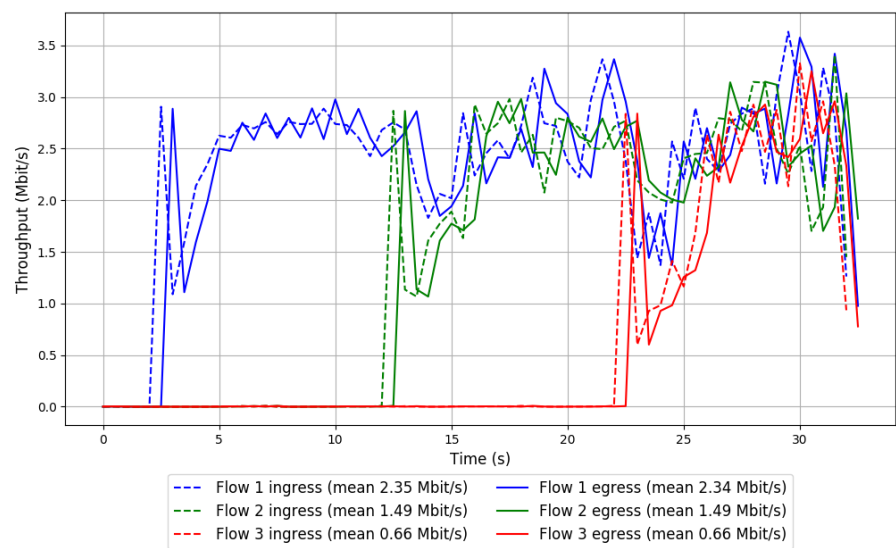


Run 7: Statistics of WebRTC media

Start at: 2018-05-22 17:28:37
End at: 2018-05-22 17:29:07
Local clock offset: -4.523 ms
Remote clock offset: -3.797 ms

Below is generated by plot.py at 2018-05-22 19:07:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 11.898 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 11.834 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 11.908 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 12.097 ms
Loss rate: 0.37%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-22 17:47:52

End at: 2018-05-22 17:48:22

Local clock offset: -2.376 ms

Remote clock offset: -2.63 ms

Below is generated by plot.py at 2018-05-22 19:07:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 10.792 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 10.553 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 10.699 ms

Loss rate: 0.19%

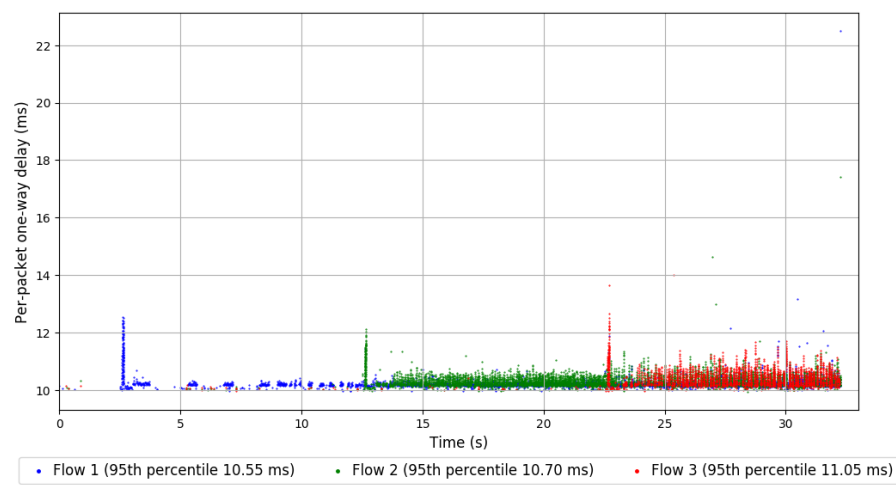
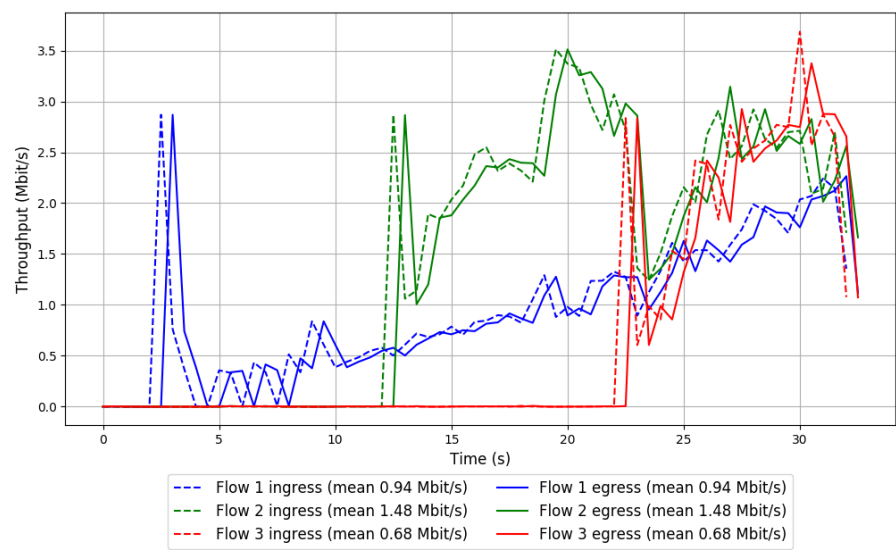
-- Flow 3:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 11.049 ms

Loss rate: 0.01%

Run 8: Report of WebRTC media — Data Link

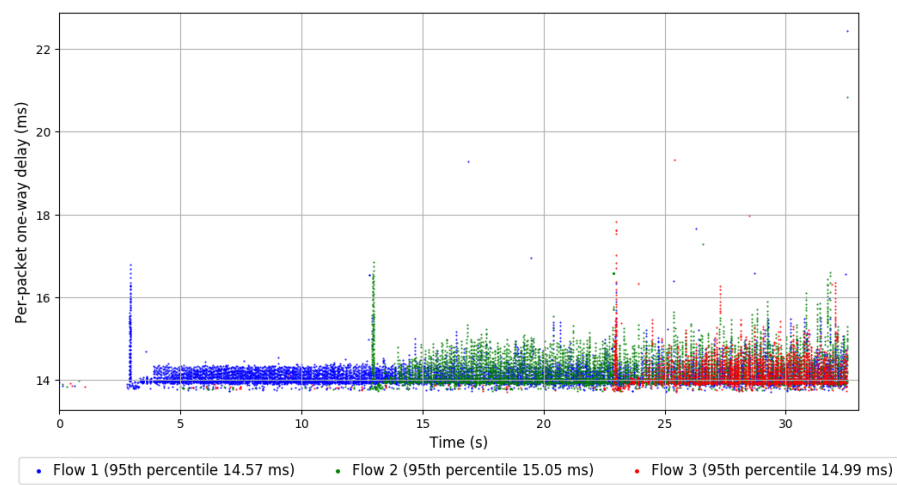
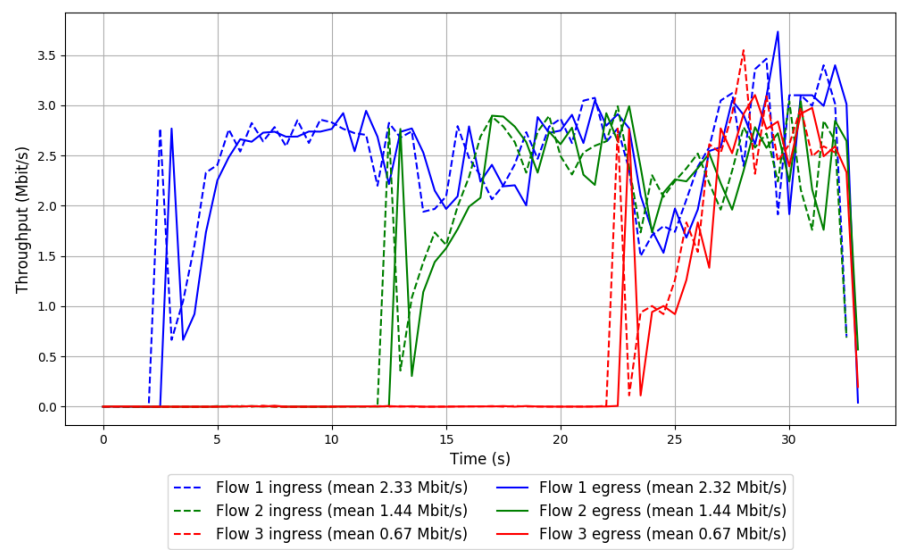


Run 9: Statistics of WebRTC media

Start at: 2018-05-22 18:07:18
End at: 2018-05-22 18:07:48
Local clock offset: 0.251 ms
Remote clock offset: -8.414 ms

Below is generated by plot.py at 2018-05-22 19:07:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 14.869 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 14.574 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 15.046 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 14.987 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-22 18:26:41
End at: 2018-05-22 18:27:11
Local clock offset: -0.703 ms
Remote clock offset: -8.849 ms

Below is generated by plot.py at 2018-05-22 19:07:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 14.018 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 13.905 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 14.115 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 14.092 ms
Loss rate: 0.77%

Run 10: Report of WebRTC media — Data Link

