

Pantheon Report

Generated at 2018-05-24 17:45:06 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

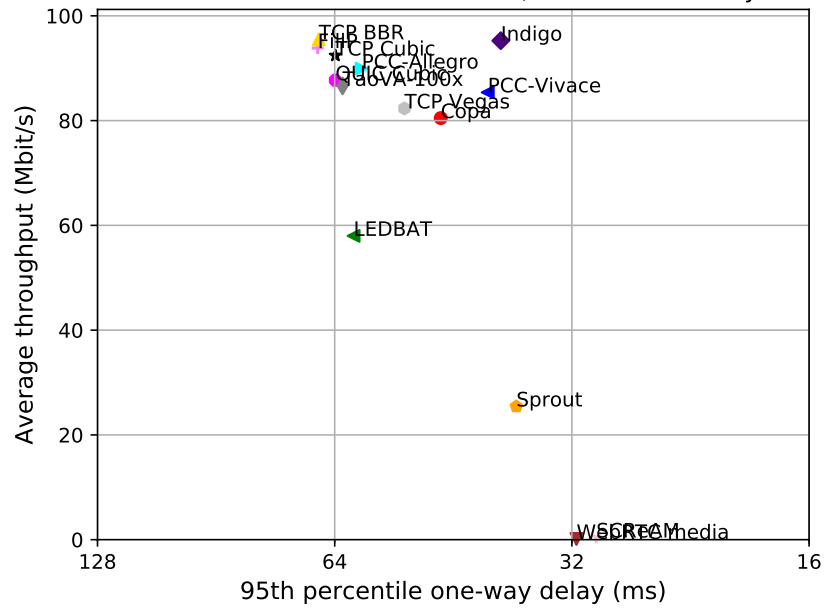
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

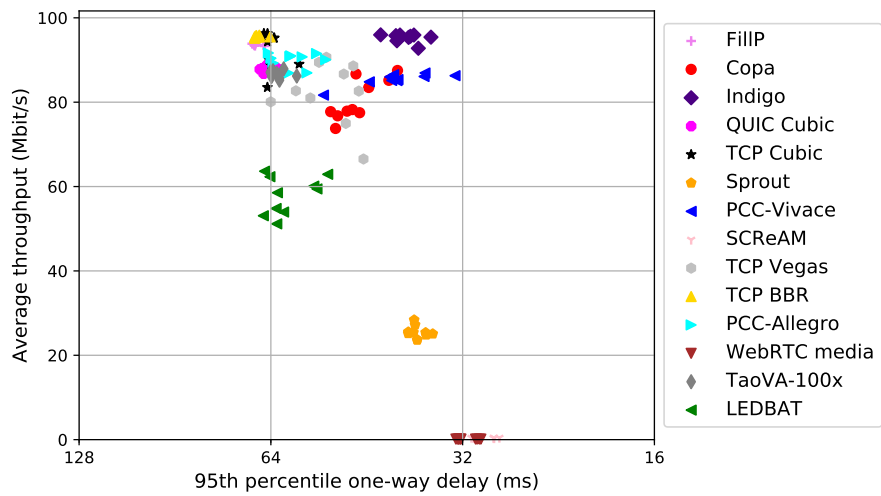
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
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-quir @ 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 AWS California 2 to Mexico, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	62.57	36.44	26.59	66.59	67.59	67.89	8.33	11.41	12.40
Copa	10	56.65	25.03	21.54	49.21	42.85	43.34	0.57	0.28	0.42
TCP Cubic	10	60.78	31.73	31.59	64.09	61.02	58.11	0.61	0.56	0.59
FillP	10	59.62	36.99	29.58	66.86	67.73	67.95	20.87	32.98	37.79
Indigo	10	68.03	26.25	29.96	38.38	41.64	41.41	0.14	0.23	0.25
LEDBAT	10	34.46	25.68	19.62	58.57	61.29	56.14	0.20	0.26	0.25
PCC-Allegro	10	79.56	10.85	9.58	58.80	60.98	61.47	2.57	2.92	4.57
PCC-Expr	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
QUIC Cubic	10	63.59	24.31	24.16	62.68	64.61	65.32	1.60	0.73	0.74
SCReAM	10	0.21	0.21	0.22	29.63	29.54	29.41	0.06	0.05	0.04
Sprout	10	12.79	13.01	12.09	36.53	38.15	38.11	0.16	0.09	0.07
TaoVA-100x	10	52.29	39.13	25.45	60.17	63.80	64.37	14.45	25.33	18.52
TCP Vegas	10	44.87	37.41	37.73	48.20	48.00	42.84	0.80	0.35	0.27
Verus	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCC-Vivace	10	64.39	24.91	13.43	40.20	41.90	45.92	0.23	0.24	0.32
WebRTC media	10	0.05	0.04	0.05	31.04	31.53	31.82	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-24 13:55:21

End at: 2018-05-24 13:55:51

Local clock offset: 1.823 ms

Remote clock offset: 2.969 ms

Below is generated by plot.py at 2018-05-24 17:27:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.45 Mbit/s

95th percentile per-packet one-way delay: 66.845 ms

Loss rate: 10.25%

-- Flow 1:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 66.371 ms

Loss rate: 8.88%

-- Flow 2:

Average throughput: 33.91 Mbit/s

95th percentile per-packet one-way delay: 67.187 ms

Loss rate: 12.50%

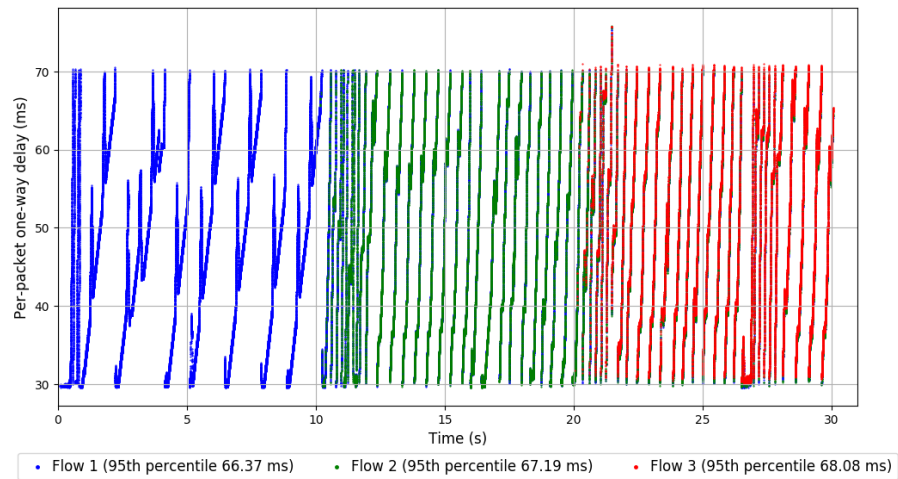
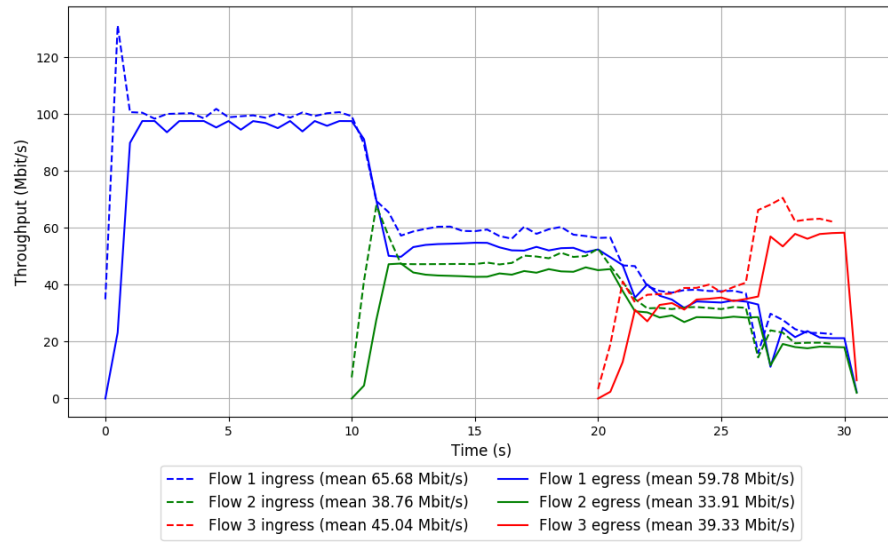
-- Flow 3:

Average throughput: 39.33 Mbit/s

95th percentile per-packet one-way delay: 68.083 ms

Loss rate: 12.38%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-24 14:16:37

End at: 2018-05-24 14:17:07

Local clock offset: -0.13 ms

Remote clock offset: 3.614 ms

Below is generated by plot.py at 2018-05-24 17:27:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.67 Mbit/s

95th percentile per-packet one-way delay: 67.562 ms

Loss rate: 8.93%

-- Flow 1:

Average throughput: 69.21 Mbit/s

95th percentile per-packet one-way delay: 67.149 ms

Loss rate: 8.19%

-- Flow 2:

Average throughput: 28.85 Mbit/s

95th percentile per-packet one-way delay: 68.228 ms

Loss rate: 10.73%

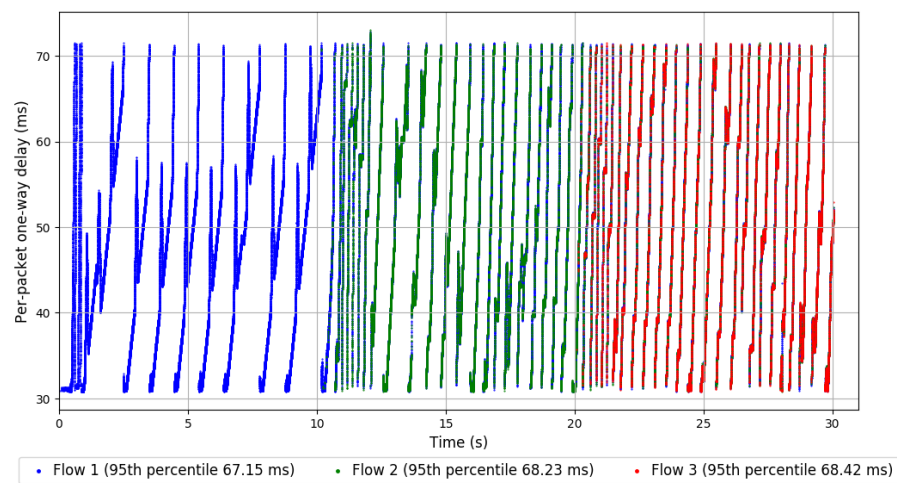
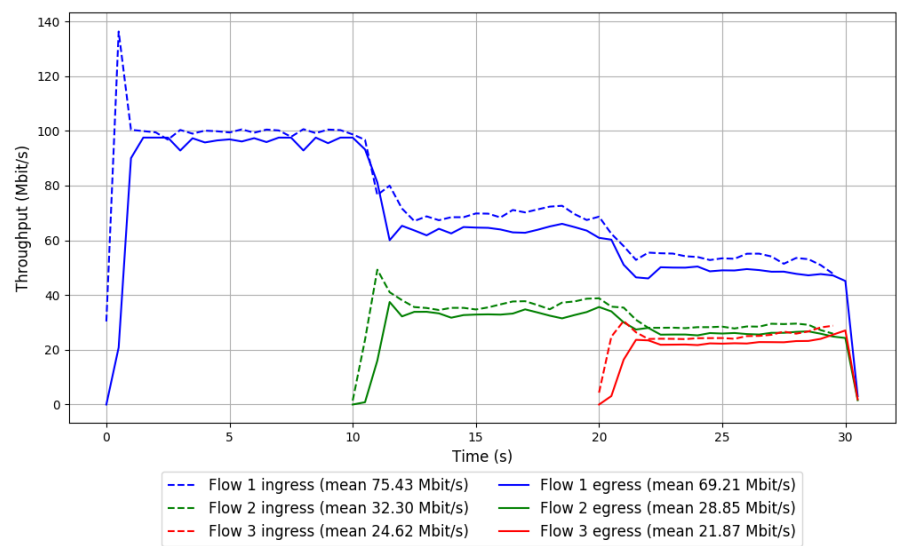
-- Flow 3:

Average throughput: 21.87 Mbit/s

95th percentile per-packet one-way delay: 68.417 ms

Loss rate: 11.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-24 14:37:53

End at: 2018-05-24 14:38:23

Local clock offset: -0.574 ms

Remote clock offset: 3.595 ms

Below is generated by plot.py at 2018-05-24 17:27:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.51 Mbit/s

95th percentile per-packet one-way delay: 66.696 ms

Loss rate: 8.30%

-- Flow 1:

Average throughput: 65.43 Mbit/s

95th percentile per-packet one-way delay: 66.221 ms

Loss rate: 7.45%

-- Flow 2:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 67.315 ms

Loss rate: 9.67%

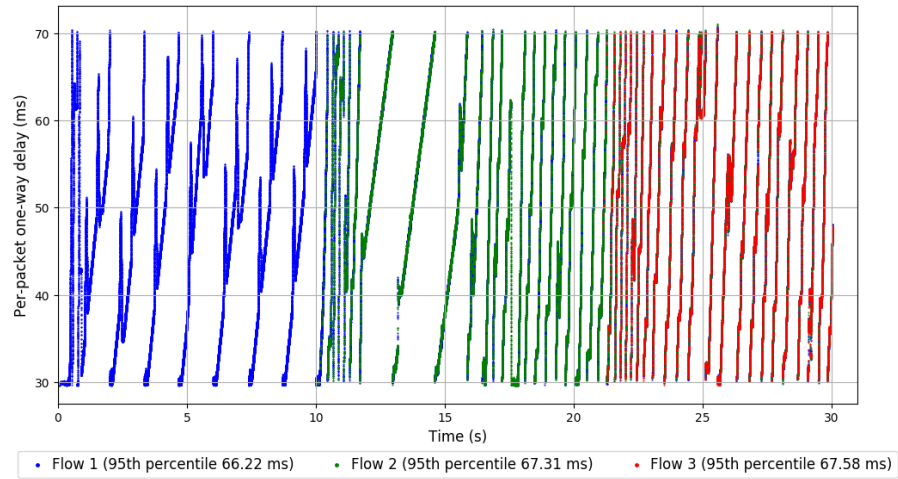
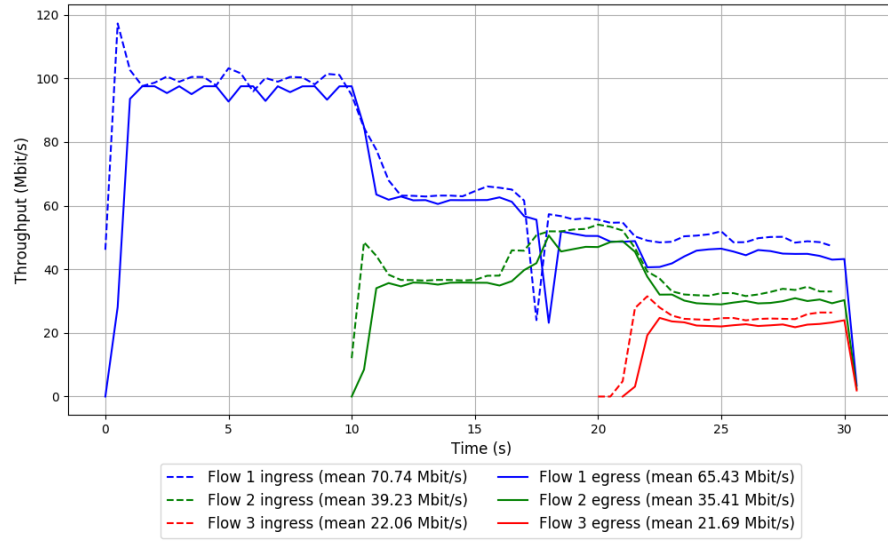
-- Flow 3:

Average throughput: 21.69 Mbit/s

95th percentile per-packet one-way delay: 67.585 ms

Loss rate: 11.52%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-24 14:59:08

End at: 2018-05-24 14:59:38

Local clock offset: -0.477 ms

Remote clock offset: 3.973 ms

Below is generated by plot.py at 2018-05-24 17:27:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.30 Mbit/s

95th percentile per-packet one-way delay: 67.620 ms

Loss rate: 10.09%

-- Flow 1:

Average throughput: 58.77 Mbit/s

95th percentile per-packet one-way delay: 67.141 ms

Loss rate: 8.60%

-- Flow 2:

Average throughput: 41.28 Mbit/s

95th percentile per-packet one-way delay: 67.817 ms

Loss rate: 12.02%

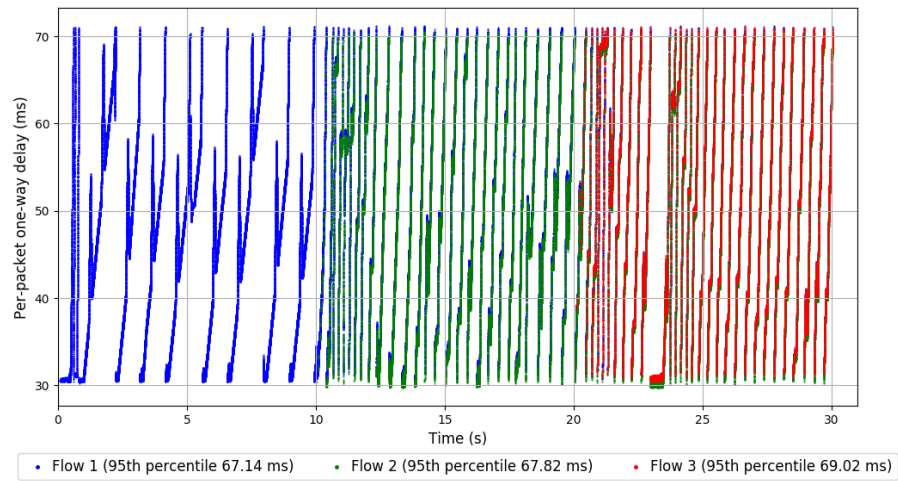
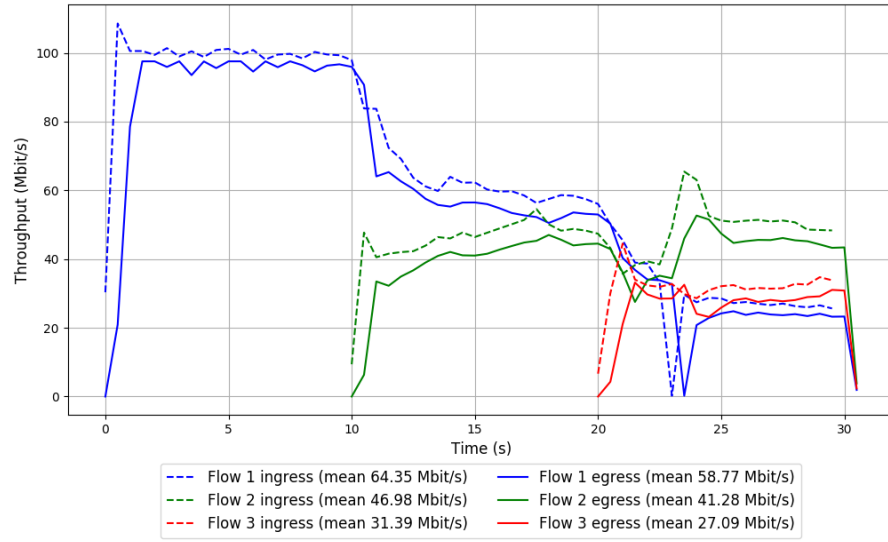
-- Flow 3:

Average throughput: 27.09 Mbit/s

95th percentile per-packet one-way delay: 69.018 ms

Loss rate: 13.51%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-24 15:20:27

End at: 2018-05-24 15:20:57

Local clock offset: 0.228 ms

Remote clock offset: 4.351 ms

Below is generated by plot.py at 2018-05-24 17:27:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 67.865 ms

Loss rate: 9.28%

-- Flow 1:

Average throughput: 61.61 Mbit/s

95th percentile per-packet one-way delay: 67.326 ms

Loss rate: 8.13%

-- Flow 2:

Average throughput: 39.96 Mbit/s

95th percentile per-packet one-way delay: 68.538 ms

Loss rate: 11.41%

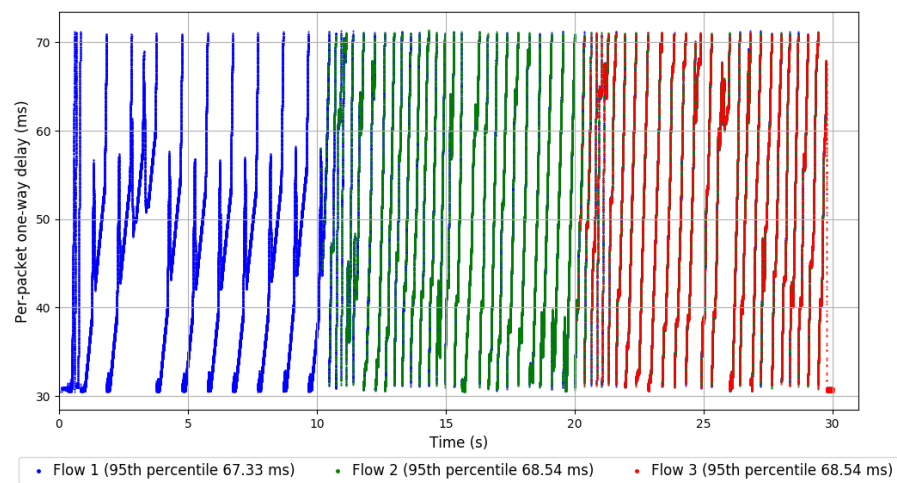
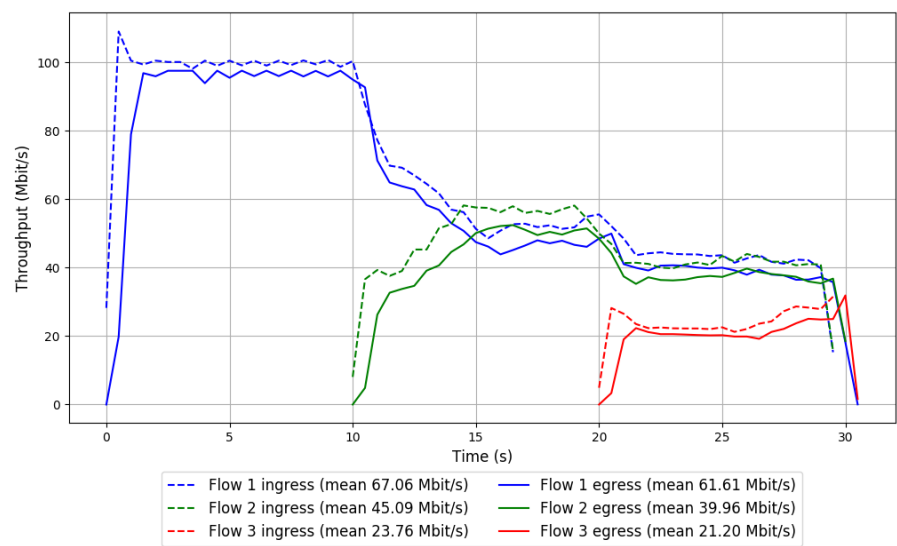
-- Flow 3:

Average throughput: 21.20 Mbit/s

95th percentile per-packet one-way delay: 68.538 ms

Loss rate: 10.87%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-24 15:41:43

End at: 2018-05-24 15:42:13

Local clock offset: 0.412 ms

Remote clock offset: 1.636 ms

Below is generated by plot.py at 2018-05-24 17:27:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.48 Mbit/s

95th percentile per-packet one-way delay: 64.162 ms

Loss rate: 8.93%

-- Flow 1:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 63.510 ms

Loss rate: 7.99%

-- Flow 2:

Average throughput: 43.90 Mbit/s

95th percentile per-packet one-way delay: 64.872 ms

Loss rate: 10.33%

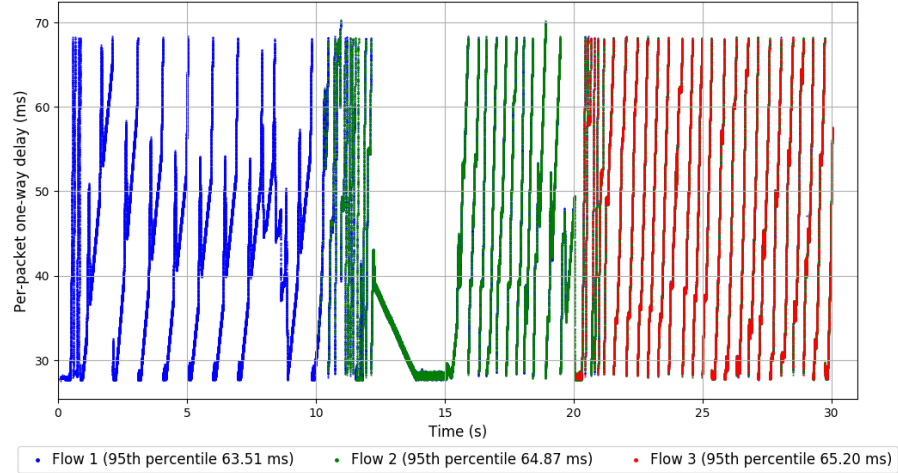
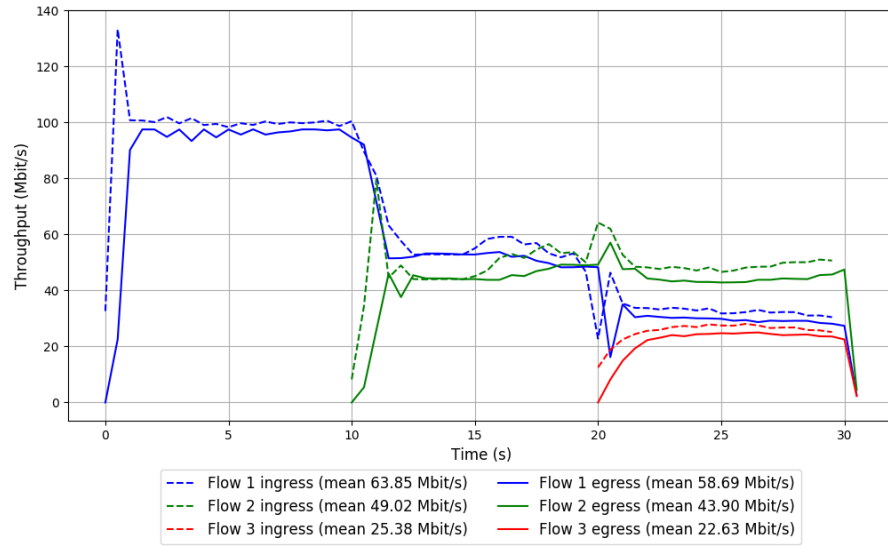
-- Flow 3:

Average throughput: 22.63 Mbit/s

95th percentile per-packet one-way delay: 65.201 ms

Loss rate: 10.62%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-24 16:02:59

End at: 2018-05-24 16:03:29

Local clock offset: 0.146 ms

Remote clock offset: 3.539 ms

Below is generated by plot.py at 2018-05-24 17:27:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.34 Mbit/s

95th percentile per-packet one-way delay: 67.661 ms

Loss rate: 10.58%

-- Flow 1:

Average throughput: 62.44 Mbit/s

95th percentile per-packet one-way delay: 67.285 ms

Loss rate: 9.04%

-- Flow 2:

Average throughput: 33.04 Mbit/s

95th percentile per-packet one-way delay: 67.923 ms

Loss rate: 12.45%

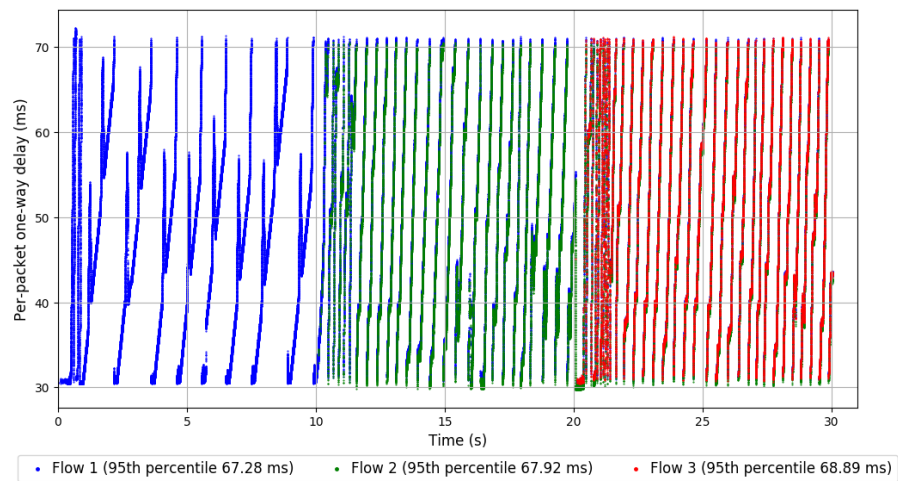
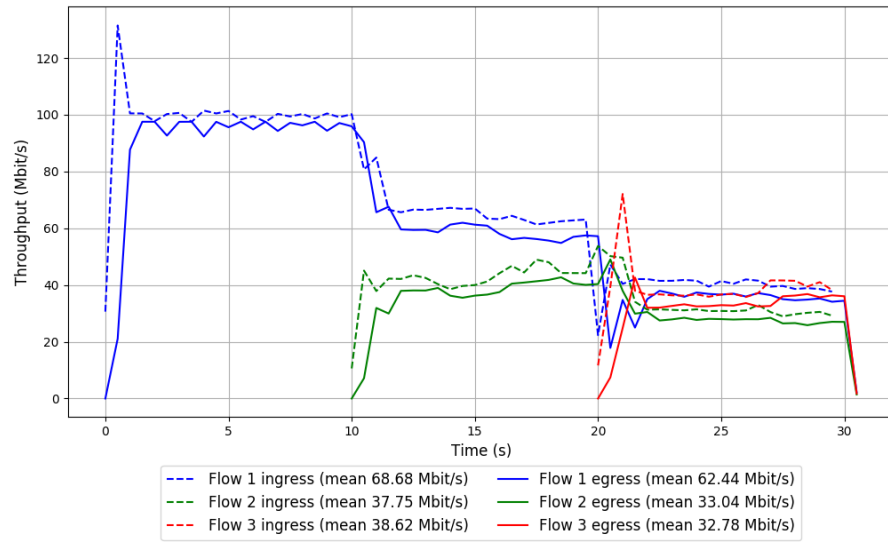
-- Flow 3:

Average throughput: 32.78 Mbit/s

95th percentile per-packet one-way delay: 68.885 ms

Loss rate: 15.12%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-24 16:24:14

End at: 2018-05-24 16:24:44

Local clock offset: -0.047 ms

Remote clock offset: 3.691 ms

Below is generated by plot.py at 2018-05-24 17:27:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.51 Mbit/s

95th percentile per-packet one-way delay: 67.846 ms

Loss rate: 10.50%

-- Flow 1:

Average throughput: 59.90 Mbit/s

95th percentile per-packet one-way delay: 67.621 ms

Loss rate: 8.51%

-- Flow 2:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 68.570 ms

Loss rate: 13.38%

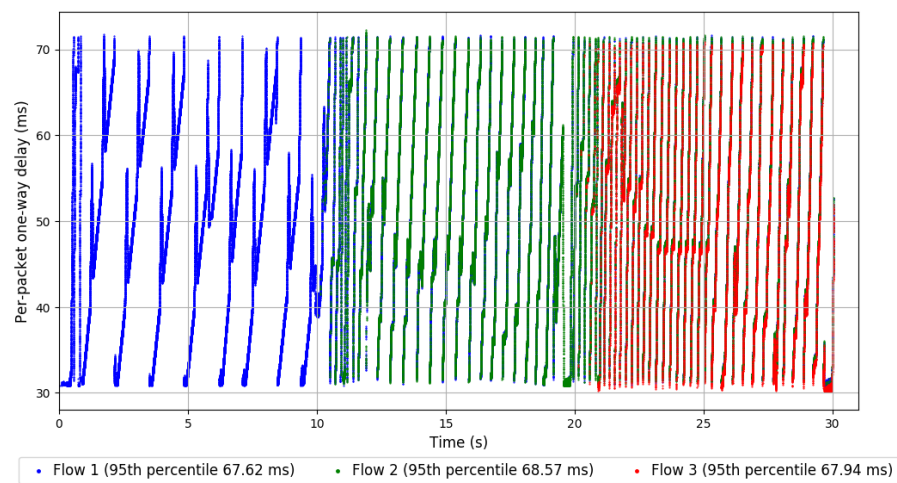
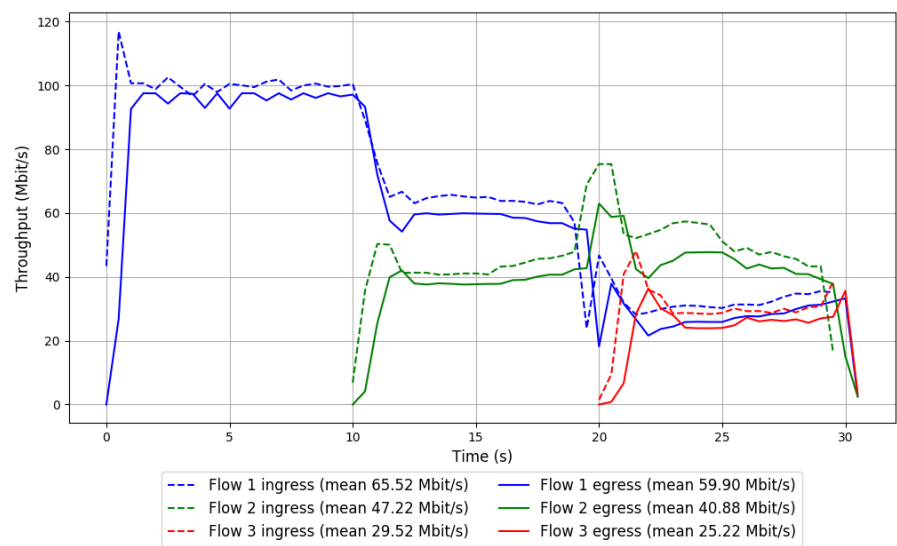
-- Flow 3:

Average throughput: 25.22 Mbit/s

95th percentile per-packet one-way delay: 67.944 ms

Loss rate: 14.58%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-24 16:45:28

End at: 2018-05-24 16:45:58

Local clock offset: 0.206 ms

Remote clock offset: 3.216 ms

Below is generated by plot.py at 2018-05-24 17:28:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.80 Mbit/s

95th percentile per-packet one-way delay: 67.443 ms

Loss rate: 9.42%

-- Flow 1:

Average throughput: 63.77 Mbit/s

95th percentile per-packet one-way delay: 67.304 ms

Loss rate: 8.43%

-- Flow 2:

Average throughput: 36.05 Mbit/s

95th percentile per-packet one-way delay: 67.652 ms

Loss rate: 10.77%

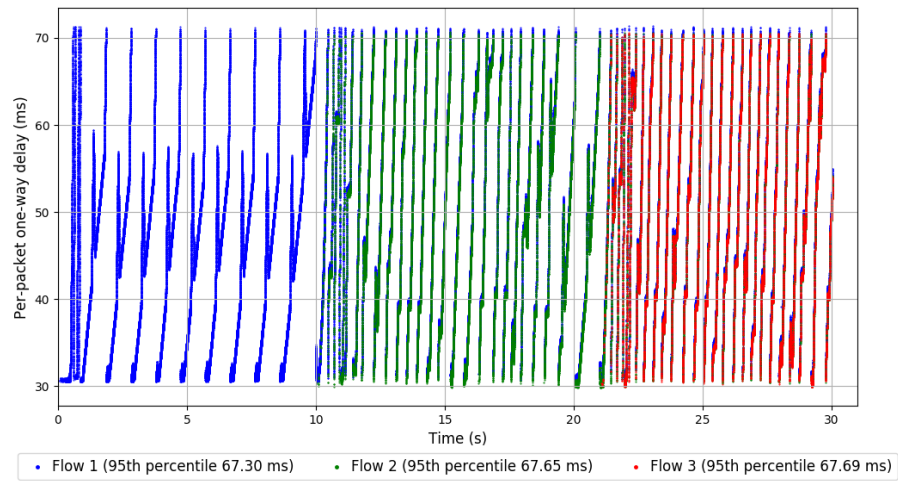
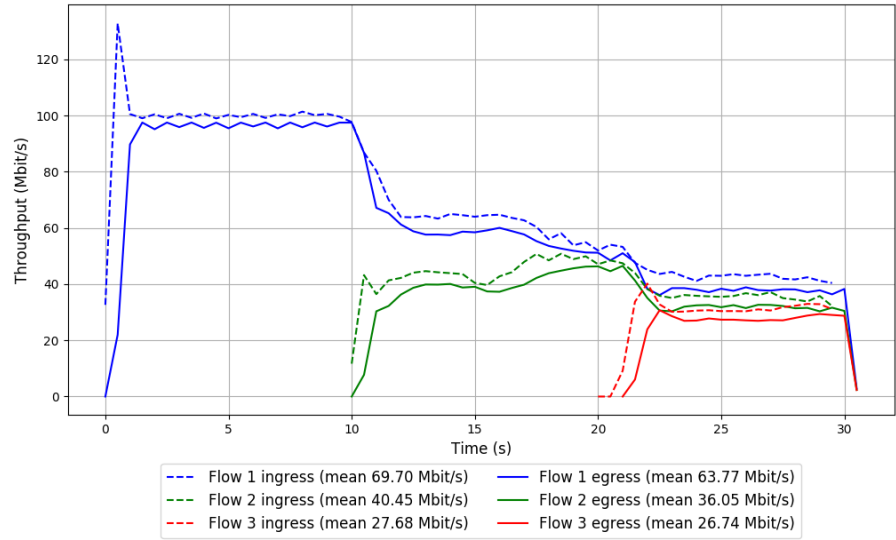
-- Flow 3:

Average throughput: 26.74 Mbit/s

95th percentile per-packet one-way delay: 67.692 ms

Loss rate: 12.89%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-24 17:06:44

End at: 2018-05-24 17:07:14

Local clock offset: 0.159 ms

Remote clock offset: 2.525 ms

Below is generated by plot.py at 2018-05-24 17:28:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 66.723 ms

Loss rate: 9.07%

-- Flow 1:

Average throughput: 66.08 Mbit/s

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

Loss rate: 8.13%

-- Flow 2:

Average throughput: 31.13 Mbit/s

95th percentile per-packet one-way delay: 67.812 ms

Loss rate: 10.86%

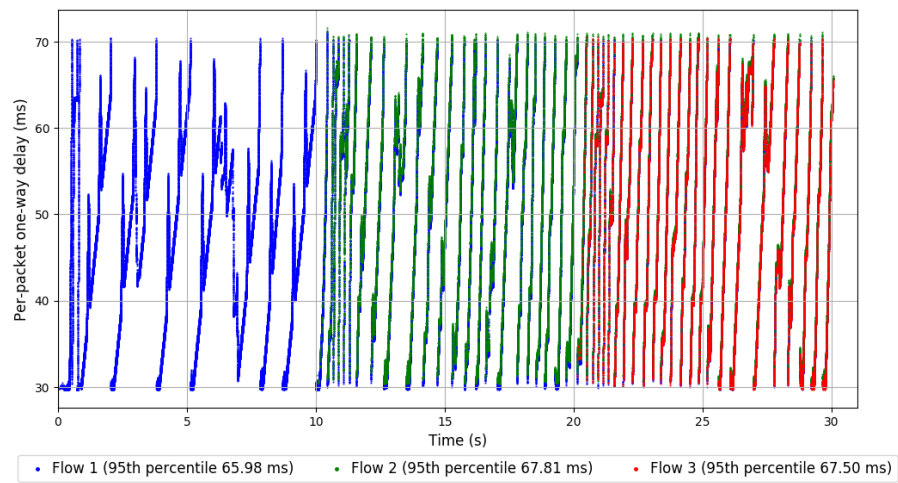
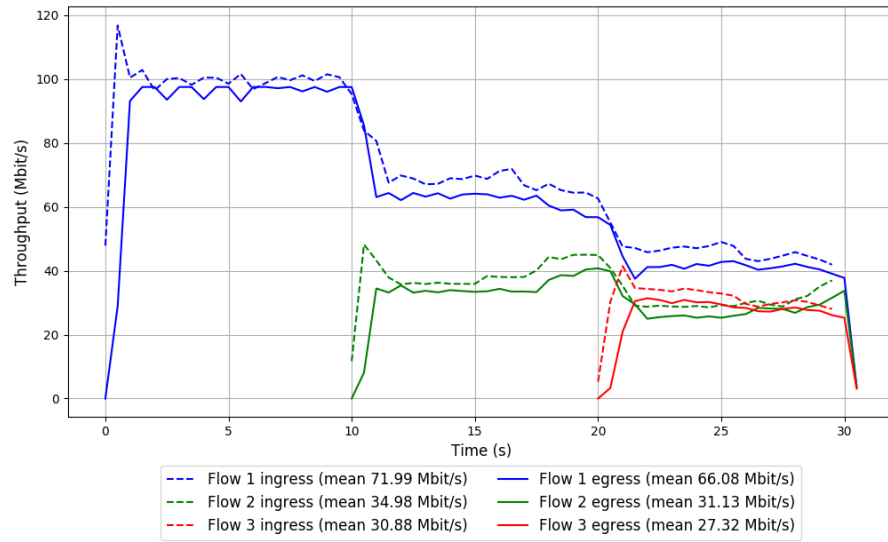
-- Flow 3:

Average throughput: 27.32 Mbit/s

95th percentile per-packet one-way delay: 67.502 ms

Loss rate: 11.55%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-24 14:08:41

End at: 2018-05-24 14:09:11

Local clock offset: 0.259 ms

Remote clock offset: 3.08 ms

Below is generated by plot.py at 2018-05-24 17:29:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.25 Mbit/s

95th percentile per-packet one-way delay: 47.670 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 49.09 Mbit/s

95th percentile per-packet one-way delay: 52.353 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 33.80 Mbit/s

95th percentile per-packet one-way delay: 42.946 ms

Loss rate: 0.32%

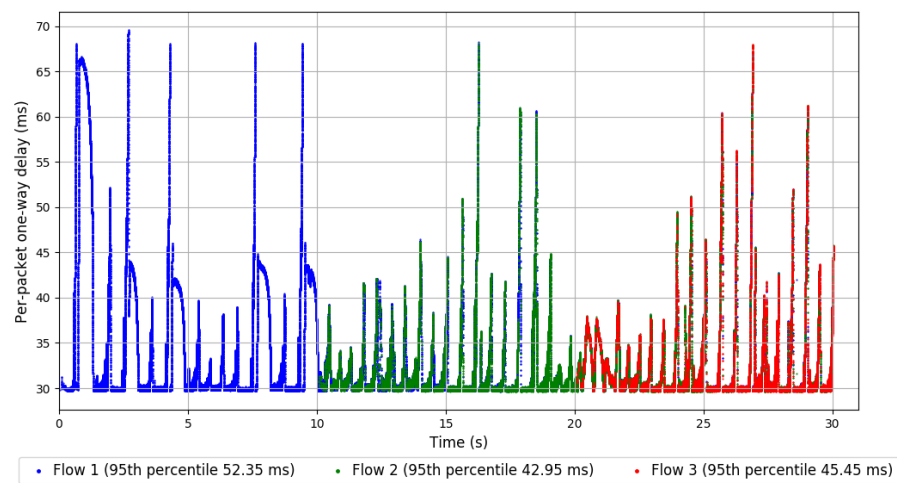
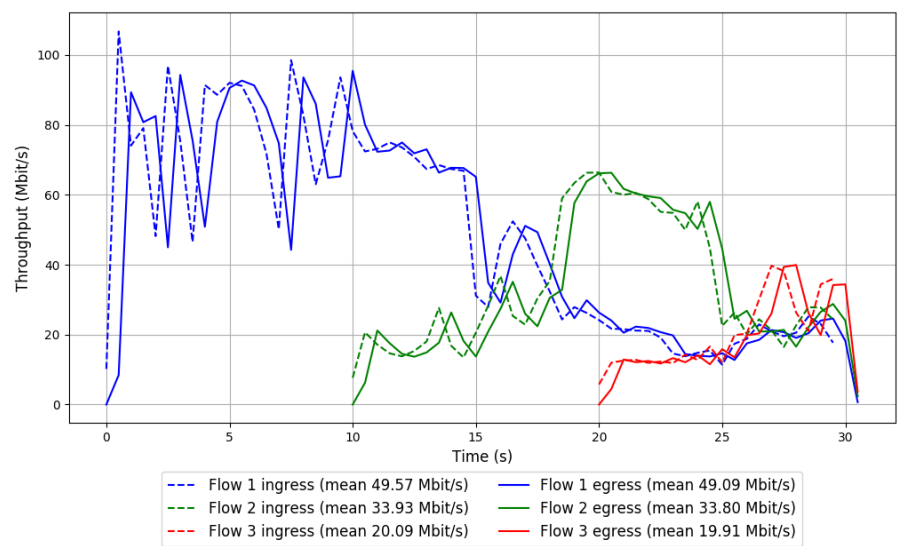
-- Flow 3:

Average throughput: 19.91 Mbit/s

95th percentile per-packet one-way delay: 45.448 ms

Loss rate: 0.73%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-24 14:29:56

End at: 2018-05-24 14:30:26

Local clock offset: -0.56 ms

Remote clock offset: 1.355 ms

Below is generated by plot.py at 2018-05-24 17:29:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.19 Mbit/s

95th percentile per-packet one-way delay: 41.780 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 72.49 Mbit/s

95th percentile per-packet one-way delay: 41.983 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 13.74 Mbit/s

95th percentile per-packet one-way delay: 36.686 ms

Loss rate: 0.22%

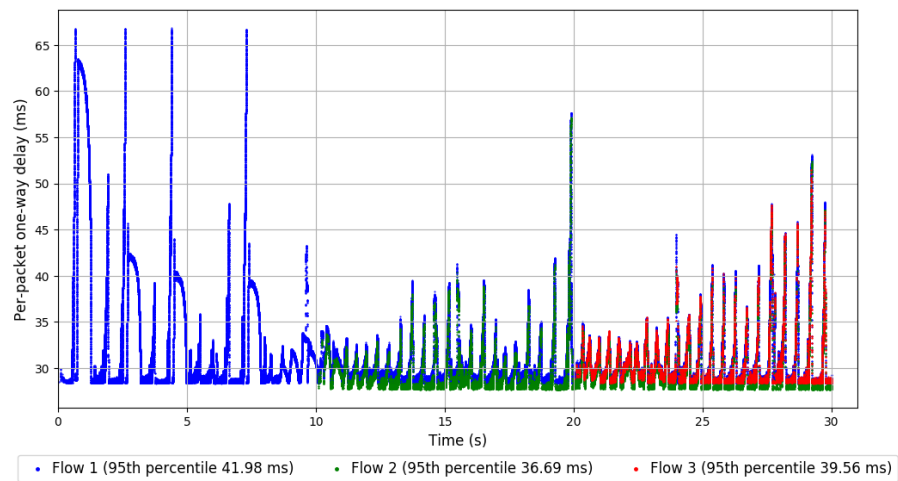
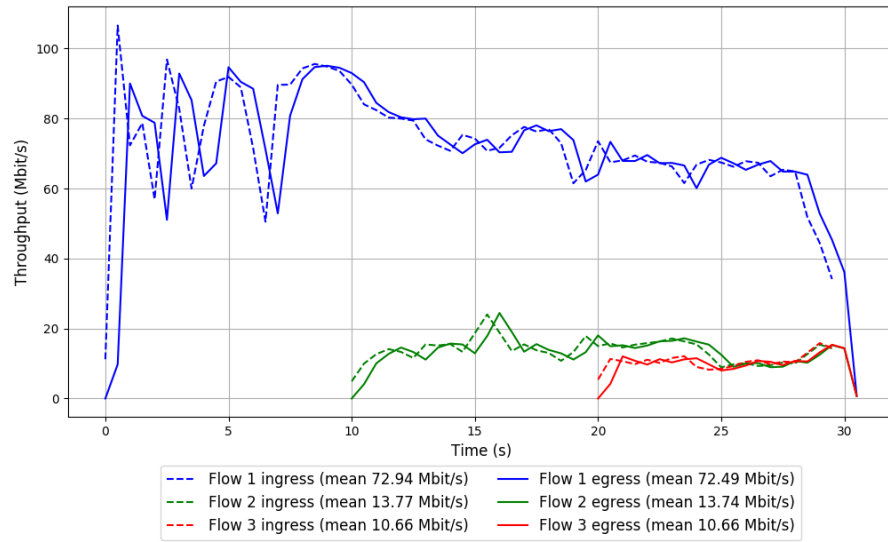
-- Flow 3:

Average throughput: 10.66 Mbit/s

95th percentile per-packet one-way delay: 39.557 ms

Loss rate: 0.06%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-24 14:51:13

End at: 2018-05-24 14:51:43

Local clock offset: -0.89 ms

Remote clock offset: 3.895 ms

Below is generated by plot.py at 2018-05-24 17:29:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.75 Mbit/s

95th percentile per-packet one-way delay: 51.558 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 47.08 Mbit/s

95th percentile per-packet one-way delay: 55.793 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 32.74 Mbit/s

95th percentile per-packet one-way delay: 49.057 ms

Loss rate: 0.46%

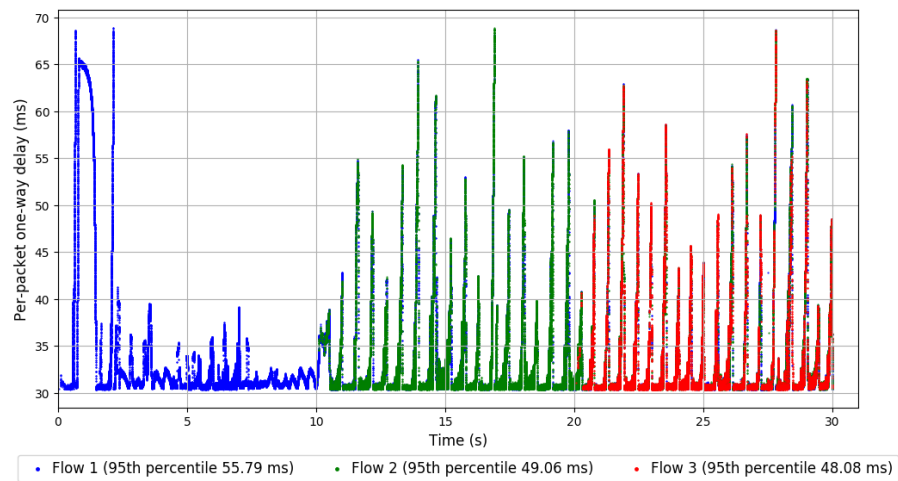
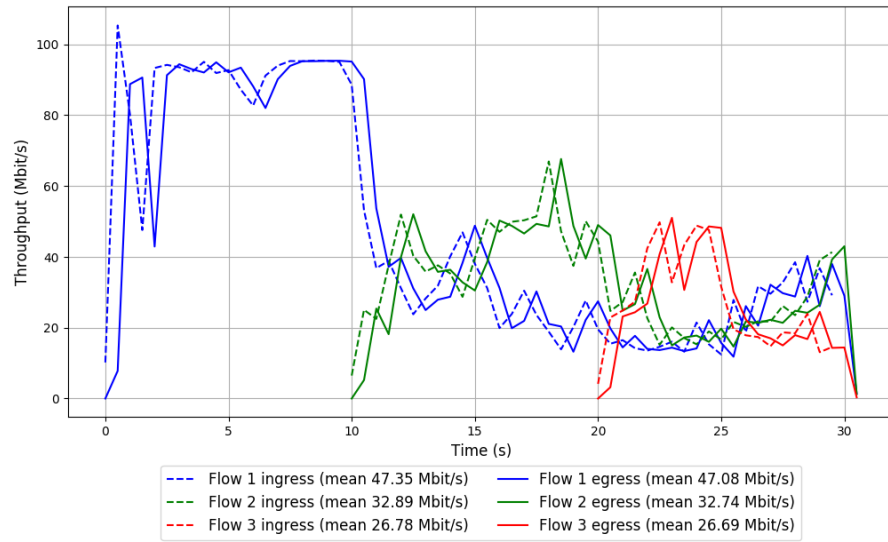
-- Flow 3:

Average throughput: 26.69 Mbit/s

95th percentile per-packet one-way delay: 48.075 ms

Loss rate: 0.36%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-24 15:12:30

End at: 2018-05-24 15:13:00

Local clock offset: 0.216 ms

Remote clock offset: 4.204 ms

Below is generated by plot.py at 2018-05-24 17:29:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.77 Mbit/s

95th percentile per-packet one-way delay: 50.656 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 49.61 Mbit/s

95th percentile per-packet one-way delay: 52.194 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 22.49 Mbit/s

95th percentile per-packet one-way delay: 49.494 ms

Loss rate: 0.45%

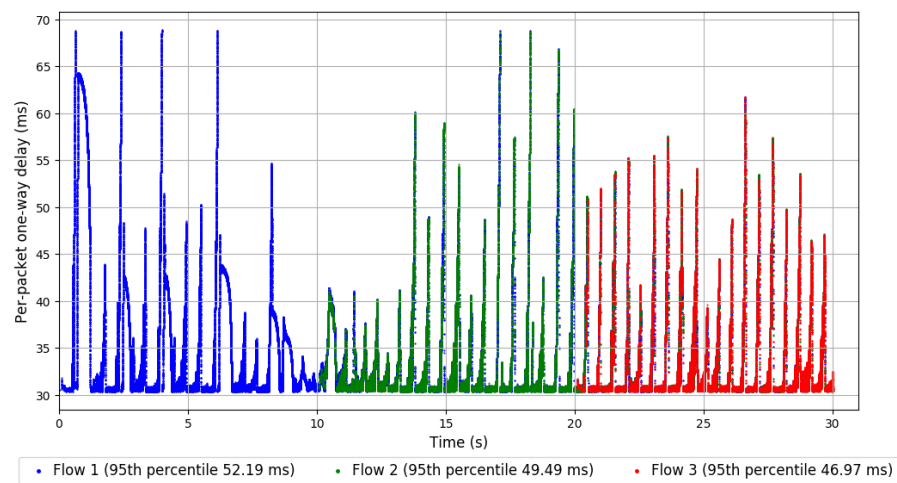
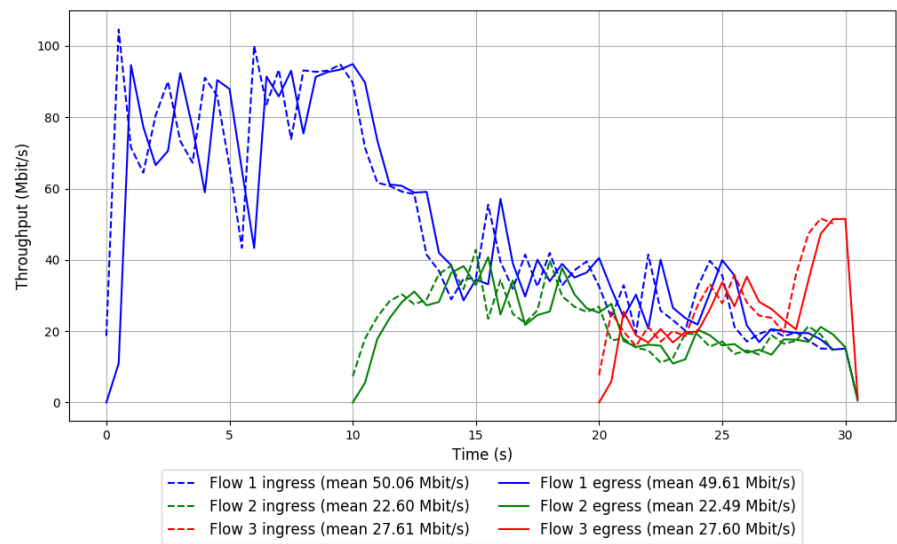
-- Flow 3:

Average throughput: 27.60 Mbit/s

95th percentile per-packet one-way delay: 46.972 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-24 15:33:47

End at: 2018-05-24 15:34:17

Local clock offset: 0.397 ms

Remote clock offset: 2.636 ms

Below is generated by plot.py at 2018-05-24 17:29:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.51 Mbit/s

95th percentile per-packet one-way delay: 46.438 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 48.232 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 27.77 Mbit/s

95th percentile per-packet one-way delay: 44.473 ms

Loss rate: 0.36%

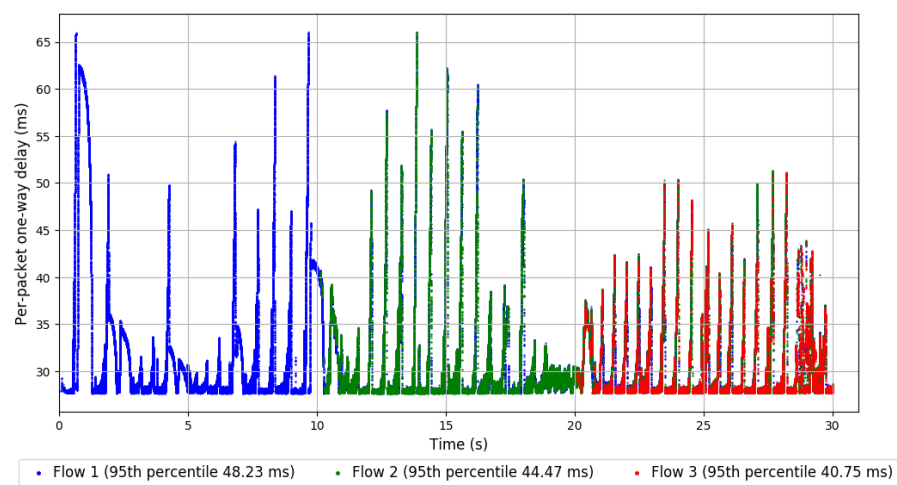
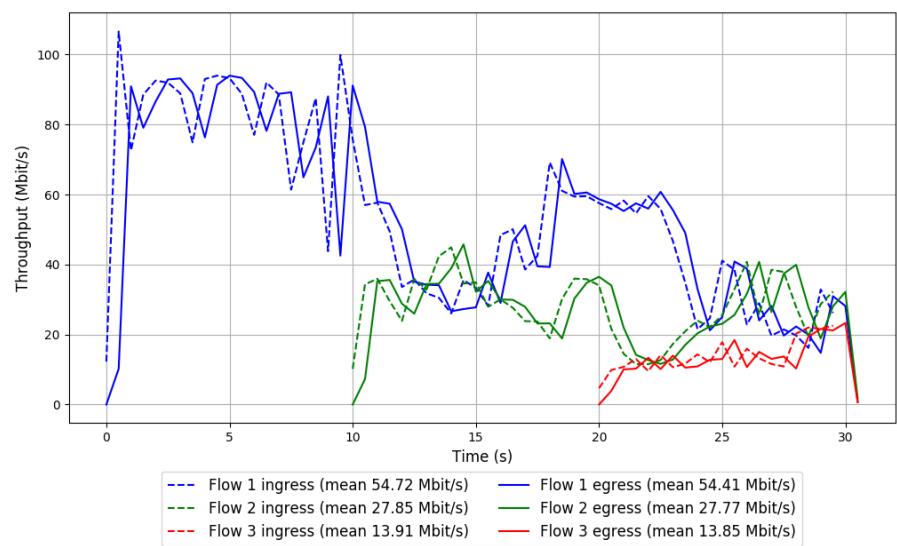
-- Flow 3:

Average throughput: 13.85 Mbit/s

95th percentile per-packet one-way delay: 40.750 ms

Loss rate: 0.41%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-24 15:55:03

End at: 2018-05-24 15:55:33

Local clock offset: 0.392 ms

Remote clock offset: 3.432 ms

Below is generated by plot.py at 2018-05-24 17:29:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.87 Mbit/s

95th percentile per-packet one-way delay: 48.597 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 60.97 Mbit/s

95th percentile per-packet one-way delay: 50.255 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 17.95 Mbit/s

95th percentile per-packet one-way delay: 45.126 ms

Loss rate: 0.18%

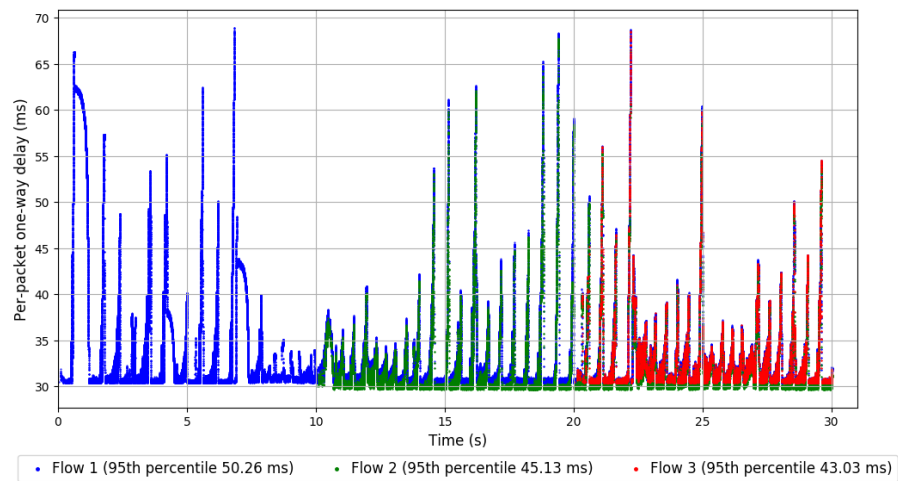
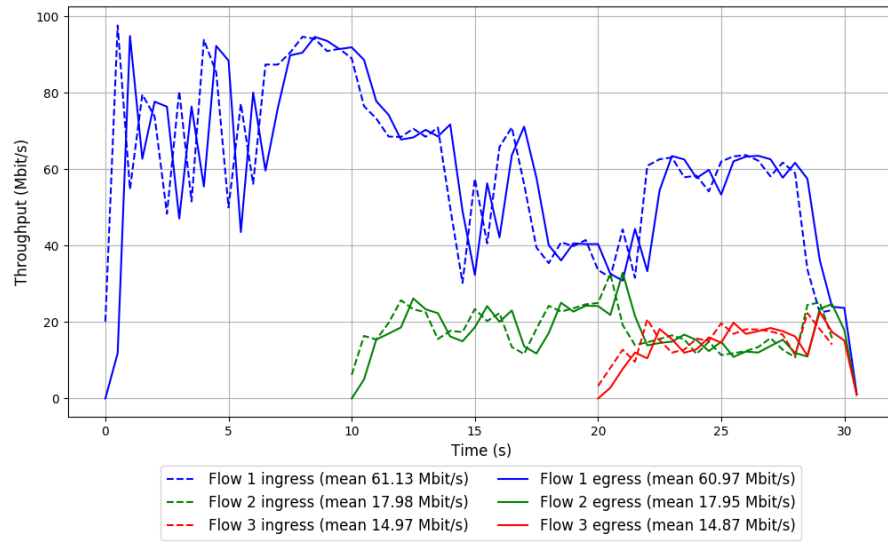
-- Flow 3:

Average throughput: 14.87 Mbit/s

95th percentile per-packet one-way delay: 43.028 ms

Loss rate: 0.67%

Run 6: Report of Copa — Data Link

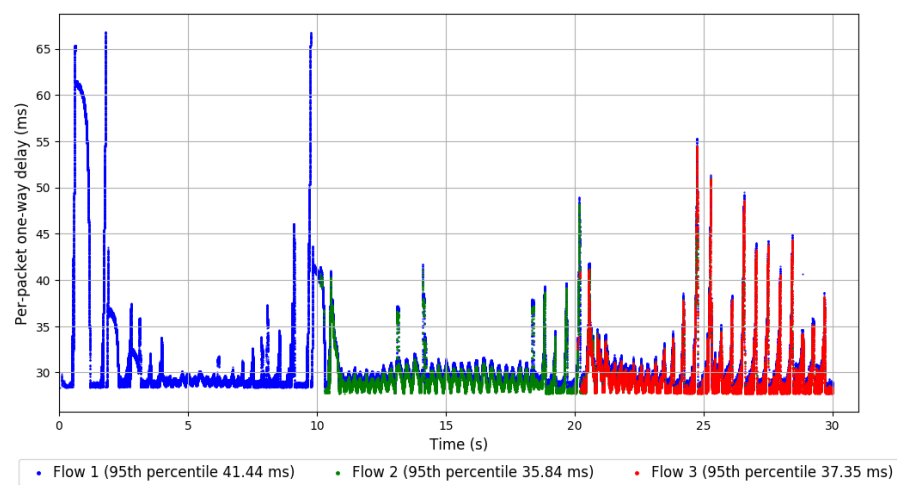
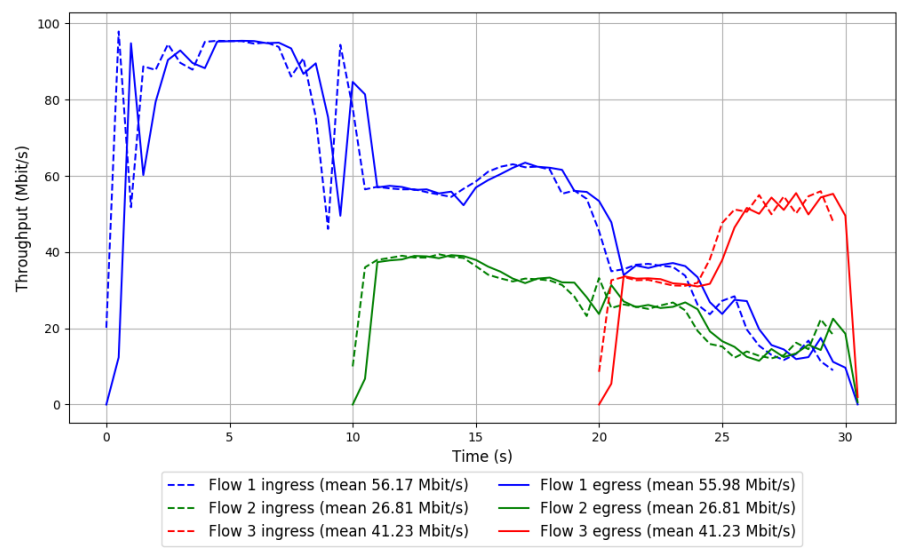


Run 7: Statistics of Copa

Start at: 2018-05-24 16:16:18
End at: 2018-05-24 16:16:48
Local clock offset: -0.084 ms
Remote clock offset: 1.214 ms

Below is generated by plot.py at 2018-05-24 17:30:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 40.494 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 55.98 Mbit/s
95th percentile per-packet one-way delay: 41.436 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 26.81 Mbit/s
95th percentile per-packet one-way delay: 35.845 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 41.23 Mbit/s
95th percentile per-packet one-way delay: 37.347 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-24 16:37:32

End at: 2018-05-24 16:38:02

Local clock offset: 0.189 ms

Remote clock offset: 3.778 ms

Below is generated by plot.py at 2018-05-24 17:30:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 47.053 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 72.55 Mbit/s

95th percentile per-packet one-way delay: 48.962 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 11.46 Mbit/s

95th percentile per-packet one-way delay: 37.130 ms

Loss rate: 0.15%

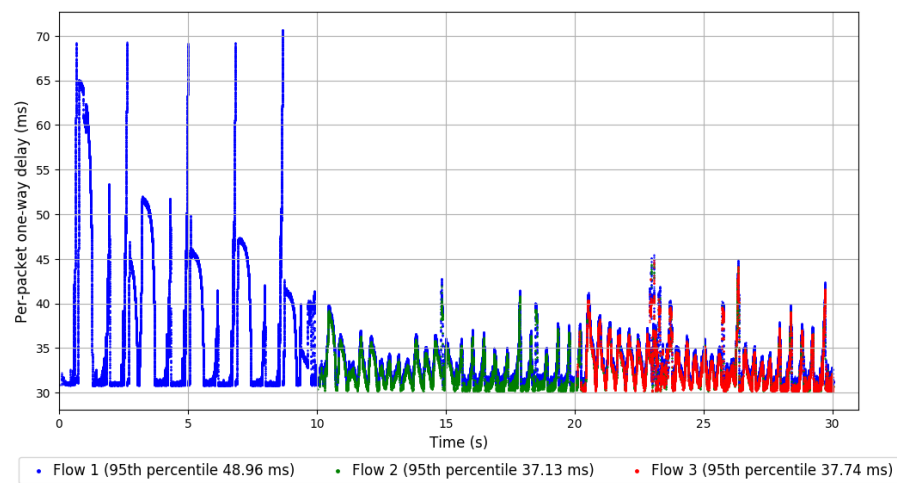
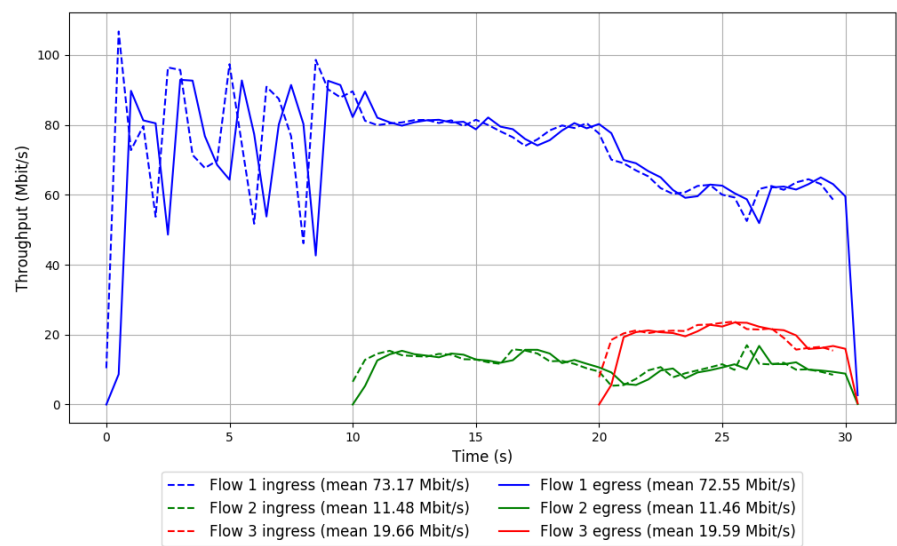
-- Flow 3:

Average throughput: 19.59 Mbit/s

95th percentile per-packet one-way delay: 37.740 ms

Loss rate: 0.39%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-24 16:58:47

End at: 2018-05-24 16:59:17

Local clock offset: 0.241 ms

Remote clock offset: 0.544 ms

Below is generated by plot.py at 2018-05-24 17:30:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.49 Mbit/s

95th percentile per-packet one-way delay: 44.931 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 60.97 Mbit/s

95th percentile per-packet one-way delay: 46.921 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 24.32 Mbit/s

95th percentile per-packet one-way delay: 41.379 ms

Loss rate: 0.42%

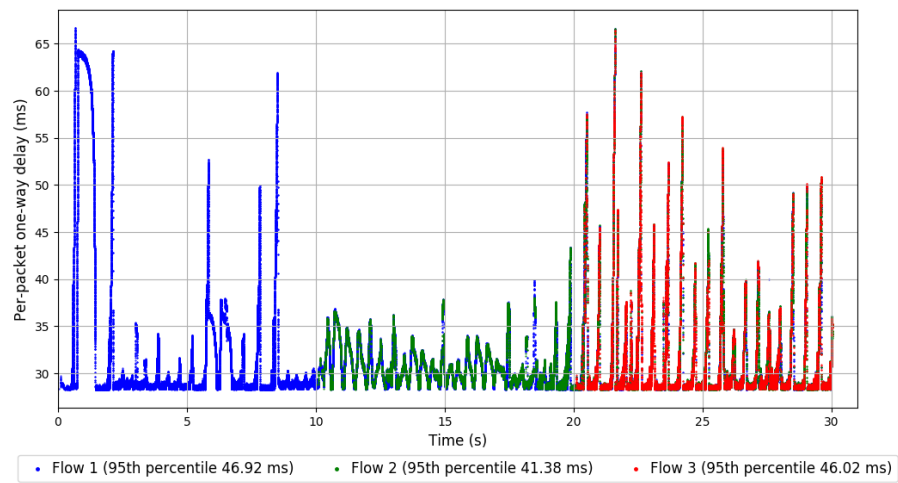
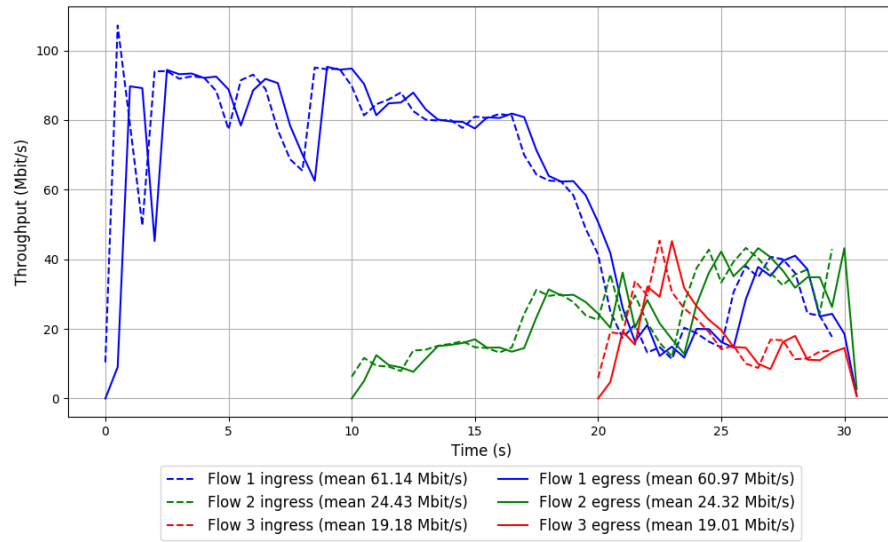
-- Flow 3:

Average throughput: 19.01 Mbit/s

95th percentile per-packet one-way delay: 46.023 ms

Loss rate: 0.84%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-24 17:20:04

End at: 2018-05-24 17:20:34

Local clock offset: 0.156 ms

Remote clock offset: 2.786 ms

Below is generated by plot.py at 2018-05-24 17:30:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.77 Mbit/s

95th percentile per-packet one-way delay: 50.270 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 43.37 Mbit/s

95th percentile per-packet one-way delay: 53.970 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 39.21 Mbit/s

95th percentile per-packet one-way delay: 46.329 ms

Loss rate: 0.13%

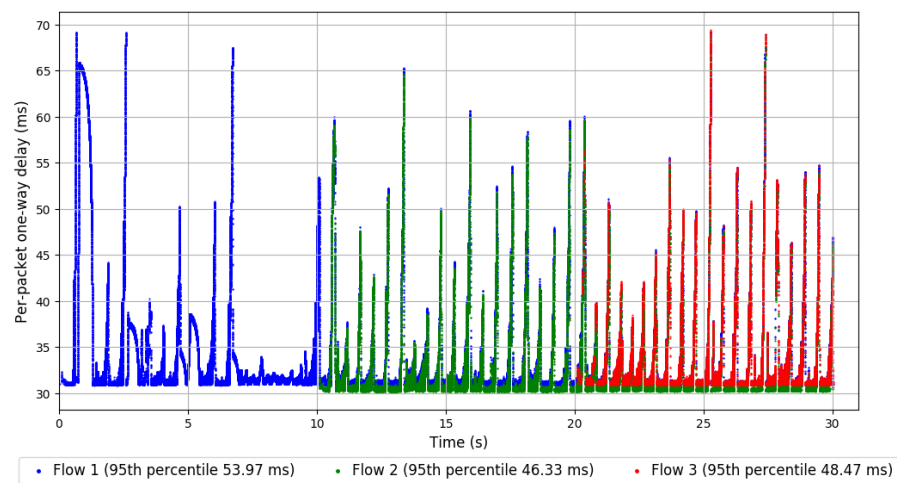
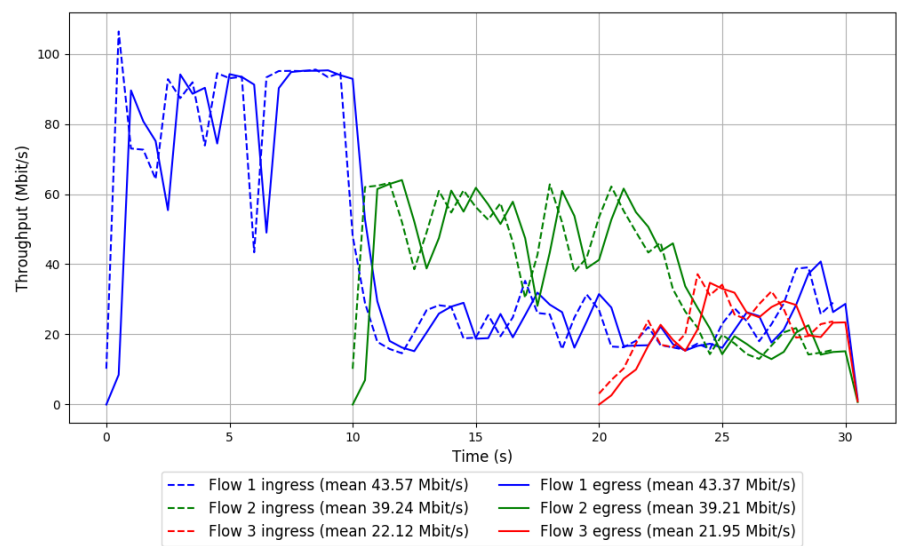
-- Flow 3:

Average throughput: 21.95 Mbit/s

95th percentile per-packet one-way delay: 48.470 ms

Loss rate: 0.78%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-24 14:02:07

End at: 2018-05-24 14:02:37

Local clock offset: 0.723 ms

Remote clock offset: 0.92 ms

Below is generated by plot.py at 2018-05-24 17:30:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.98 Mbit/s

95th percentile per-packet one-way delay: 64.328 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 51.32 Mbit/s

95th percentile per-packet one-way delay: 65.786 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 35.42 Mbit/s

95th percentile per-packet one-way delay: 54.615 ms

Loss rate: 0.80%

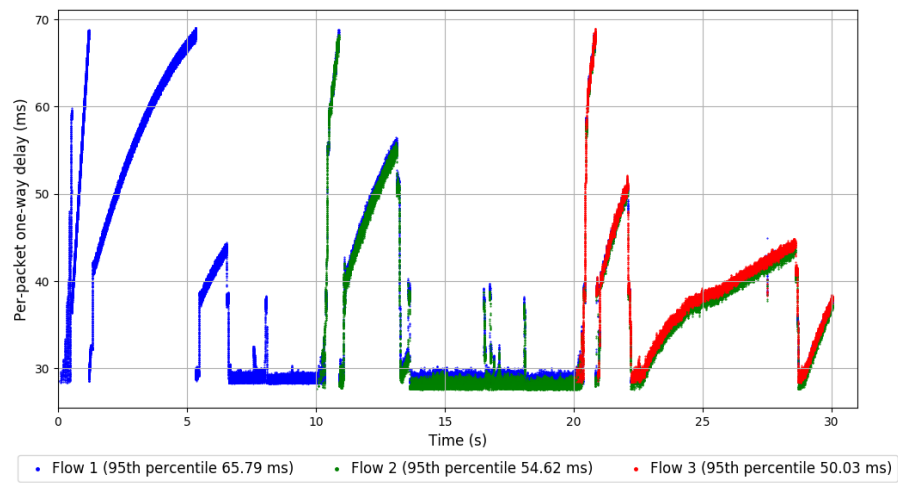
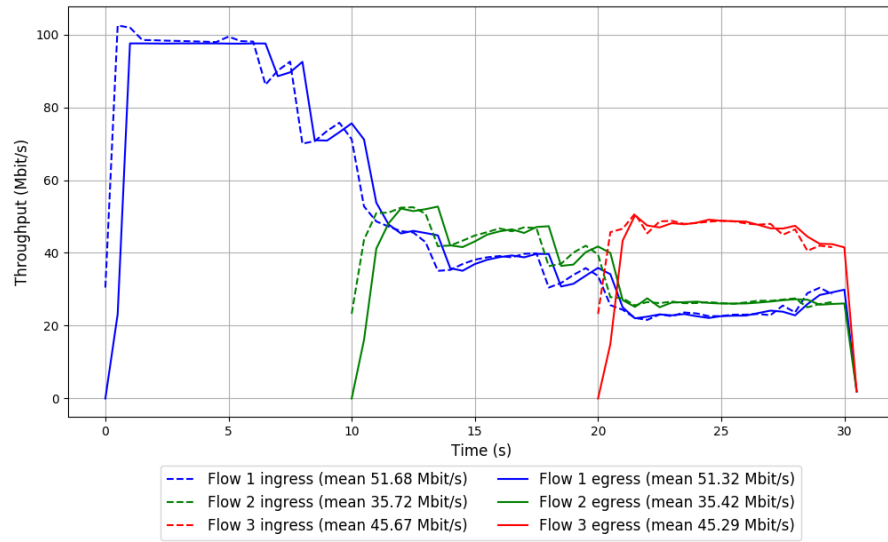
-- Flow 3:

Average throughput: 45.29 Mbit/s

95th percentile per-packet one-way delay: 50.029 ms

Loss rate: 0.74%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-24 14:23:23

End at: 2018-05-24 14:23:53

Local clock offset: -0.453 ms

Remote clock offset: 3.644 ms

Below is generated by plot.py at 2018-05-24 17:30:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.52 Mbit/s

95th percentile per-packet one-way delay: 64.802 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 45.66 Mbit/s

95th percentile per-packet one-way delay: 63.137 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 43.33 Mbit/s

95th percentile per-packet one-way delay: 67.094 ms

Loss rate: 1.07%

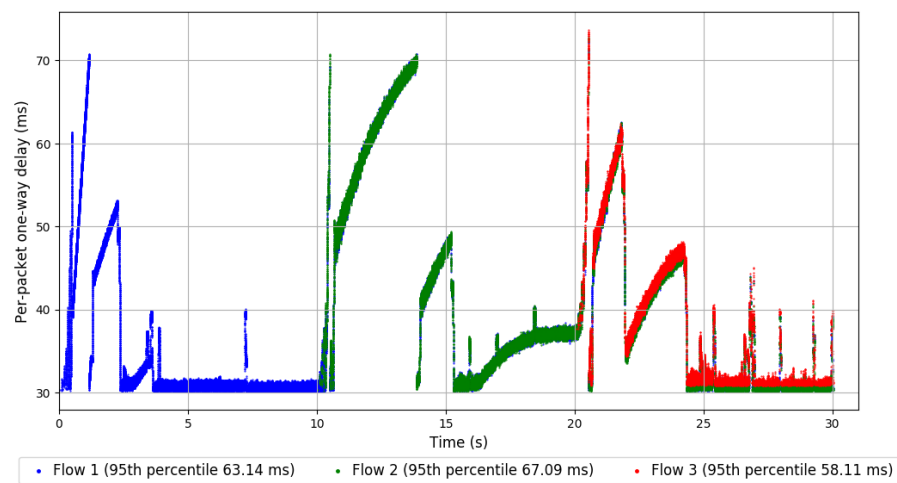
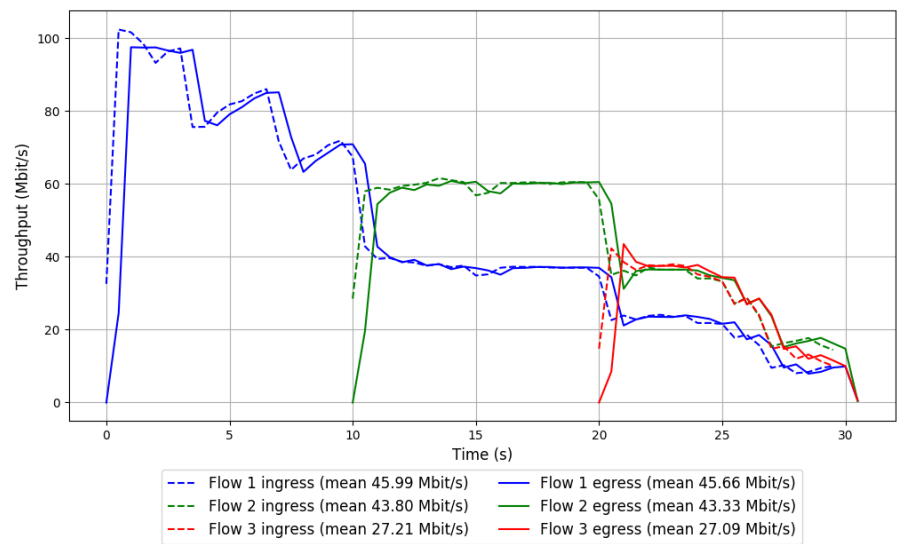
-- Flow 3:

Average throughput: 27.09 Mbit/s

95th percentile per-packet one-way delay: 58.110 ms

Loss rate: 0.51%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-24 14:44:39

End at: 2018-05-24 14:45:09

Local clock offset: -0.721 ms

Remote clock offset: 3.73 ms

Below is generated by plot.py at 2018-05-24 17:30:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 63.329 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 75.70 Mbit/s

95th percentile per-packet one-way delay: 63.288 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 16.27 Mbit/s

95th percentile per-packet one-way delay: 65.172 ms

Loss rate: 0.31%

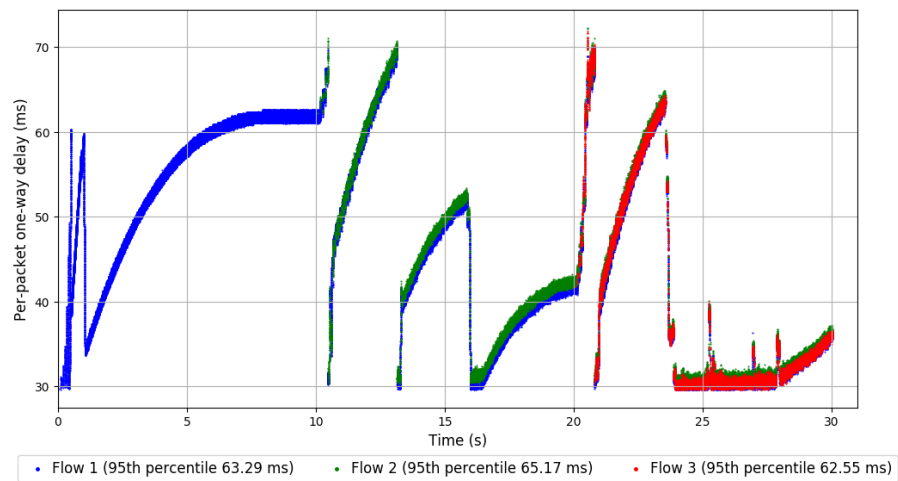
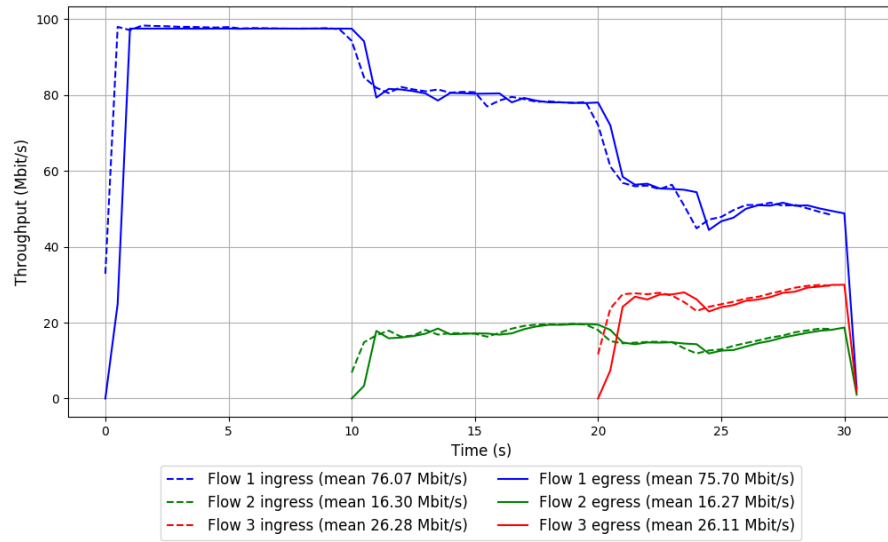
-- Flow 3:

Average throughput: 26.11 Mbit/s

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

Loss rate: 0.72%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-24 15:05:56

End at: 2018-05-24 15:06:26

Local clock offset: 0.02 ms

Remote clock offset: 2.06 ms

Below is generated by plot.py at 2018-05-24 17:30:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.03 Mbit/s

95th percentile per-packet one-way delay: 57.782 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 46.71 Mbit/s

95th percentile per-packet one-way delay: 56.724 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 50.40 Mbit/s

95th percentile per-packet one-way delay: 57.970 ms

Loss rate: 0.45%

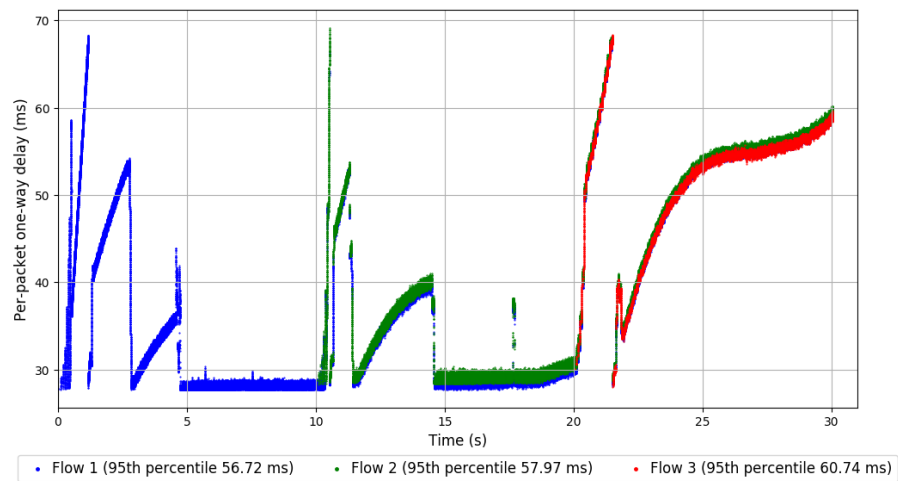
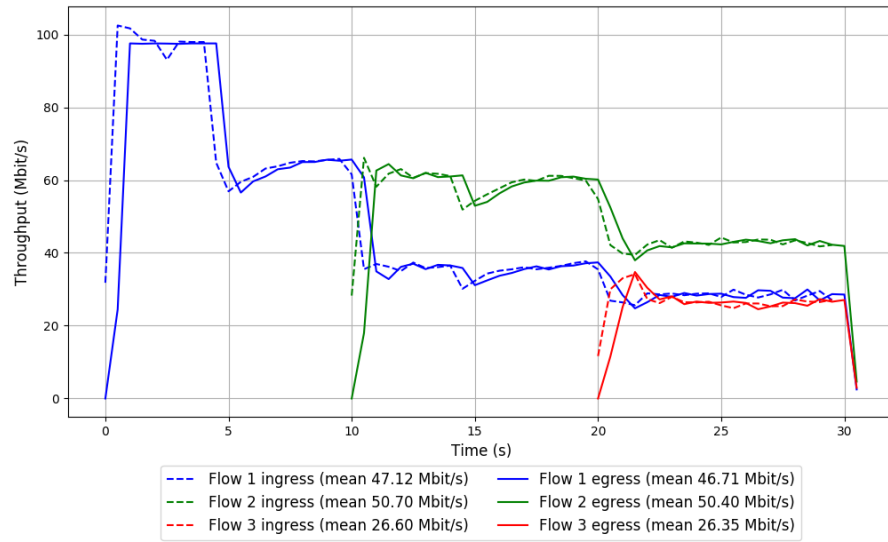
-- Flow 3:

Average throughput: 26.35 Mbit/s

95th percentile per-packet one-way delay: 60.736 ms

Loss rate: 0.66%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-24 15:27:13

End at: 2018-05-24 15:27:43

Local clock offset: 0.266 ms

Remote clock offset: 2.358 ms

Below is generated by plot.py at 2018-05-24 17:31:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.22 Mbit/s

95th percentile per-packet one-way delay: 63.212 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 58.15 Mbit/s

95th percentile per-packet one-way delay: 63.229 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 41.49 Mbit/s

95th percentile per-packet one-way delay: 63.024 ms

Loss rate: 0.44%

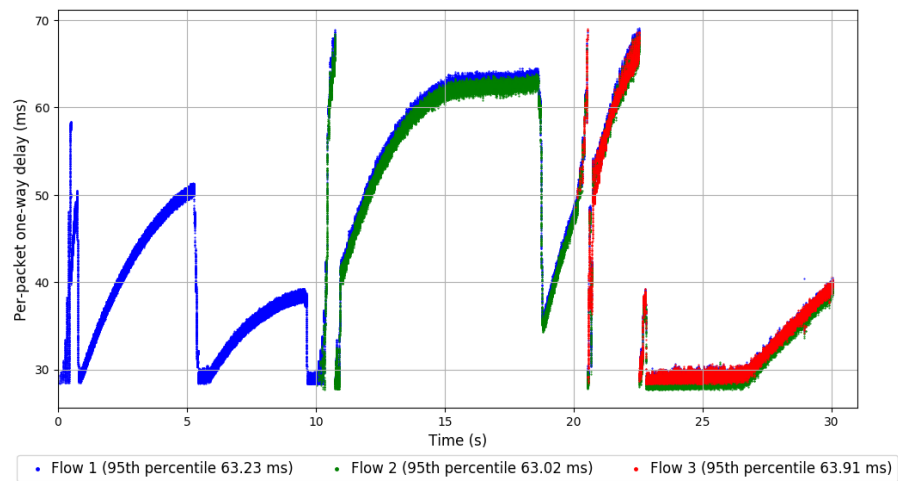
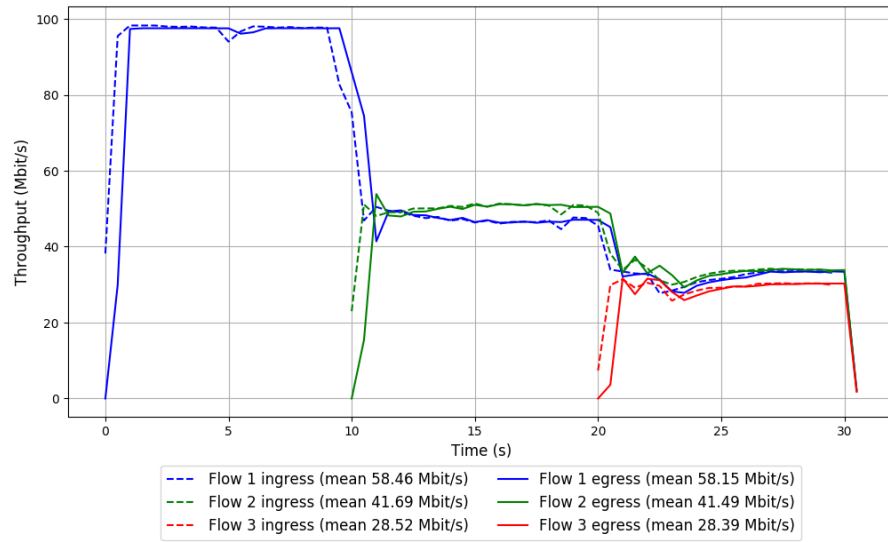
-- Flow 3:

Average throughput: 28.39 Mbit/s

95th percentile per-packet one-way delay: 63.915 ms

Loss rate: 0.54%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-24 15:48:29

End at: 2018-05-24 15:48:59

Local clock offset: 0.311 ms

Remote clock offset: 1.4 ms

Below is generated by plot.py at 2018-05-24 17:31:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 64.755 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 68.71 Mbit/s

95th percentile per-packet one-way delay: 65.200 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 31.49 Mbit/s

95th percentile per-packet one-way delay: 63.208 ms

Loss rate: 0.63%

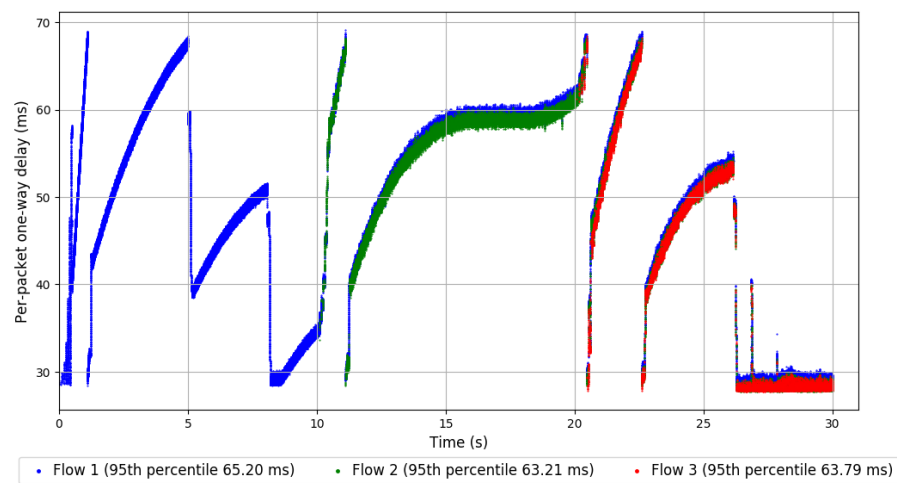
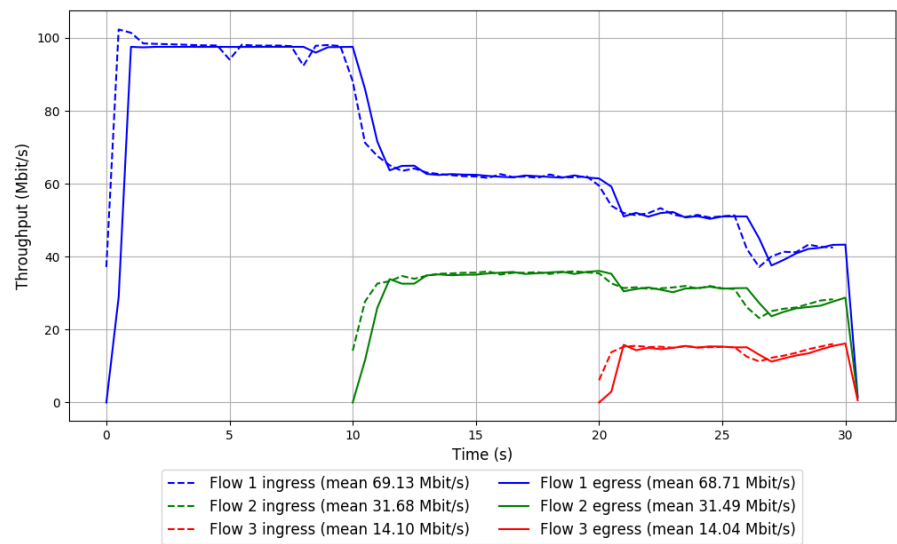
-- Flow 3:

Average throughput: 14.04 Mbit/s

95th percentile per-packet one-way delay: 63.788 ms

Loss rate: 0.75%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-24 16:09:45

End at: 2018-05-24 16:10:15

Local clock offset: 0.126 ms

Remote clock offset: 3.619 ms

Below is generated by plot.py at 2018-05-24 17:31:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 65.635 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 67.08 Mbit/s

95th percentile per-packet one-way delay: 66.646 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 32.67 Mbit/s

95th percentile per-packet one-way delay: 60.091 ms

Loss rate: 0.33%

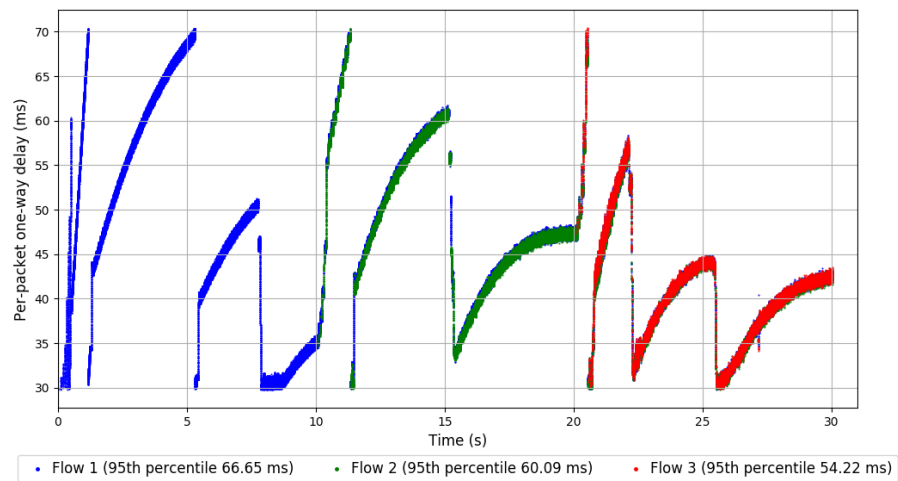
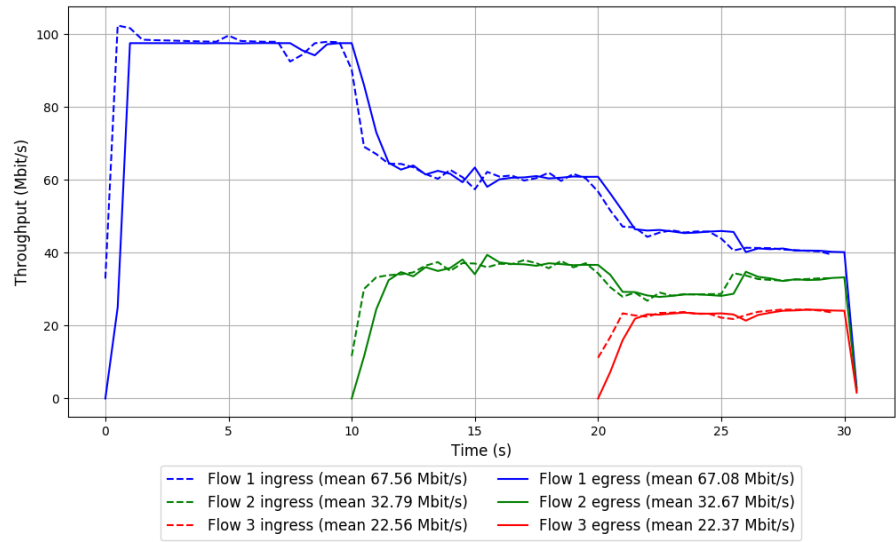
-- Flow 3:

Average throughput: 22.37 Mbit/s

95th percentile per-packet one-way delay: 54.215 ms

Loss rate: 0.85%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-24 16:31:00

End at: 2018-05-24 16:31:30

Local clock offset: 0.114 ms

Remote clock offset: 3.676 ms

Below is generated by plot.py at 2018-05-24 17:31:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 64.781 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 69.97 Mbit/s

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

Loss rate: 0.53%

-- Flow 2:

Average throughput: 25.15 Mbit/s

95th percentile per-packet one-way delay: 59.979 ms

Loss rate: 0.30%

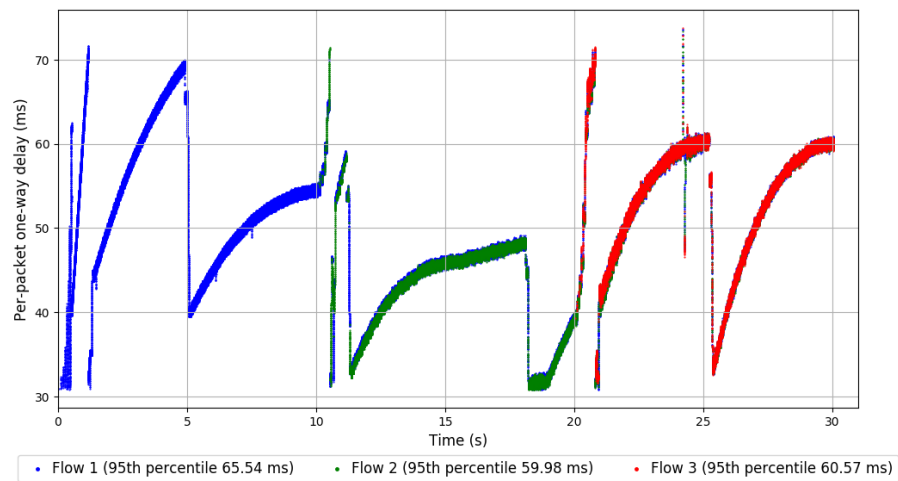
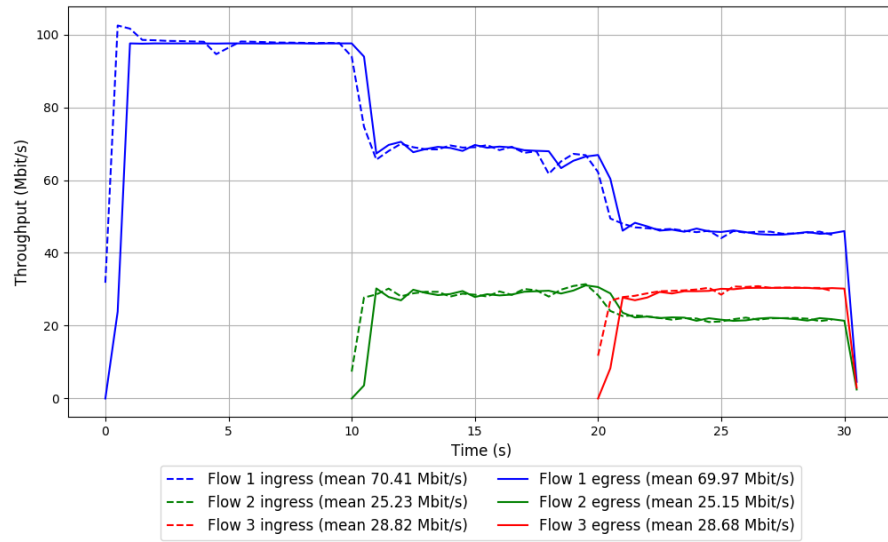
-- Flow 3:

Average throughput: 28.68 Mbit/s

95th percentile per-packet one-way delay: 60.566 ms

Loss rate: 0.29%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-24 16:52:13

End at: 2018-05-24 16:52:43

Local clock offset: 0.246 ms

Remote clock offset: 0.714 ms

Below is generated by plot.py at 2018-05-24 17:31:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.84 Mbit/s

95th percentile per-packet one-way delay: 64.063 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 61.26 Mbit/s

95th percentile per-packet one-way delay: 64.048 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 63.670 ms

Loss rate: 0.88%

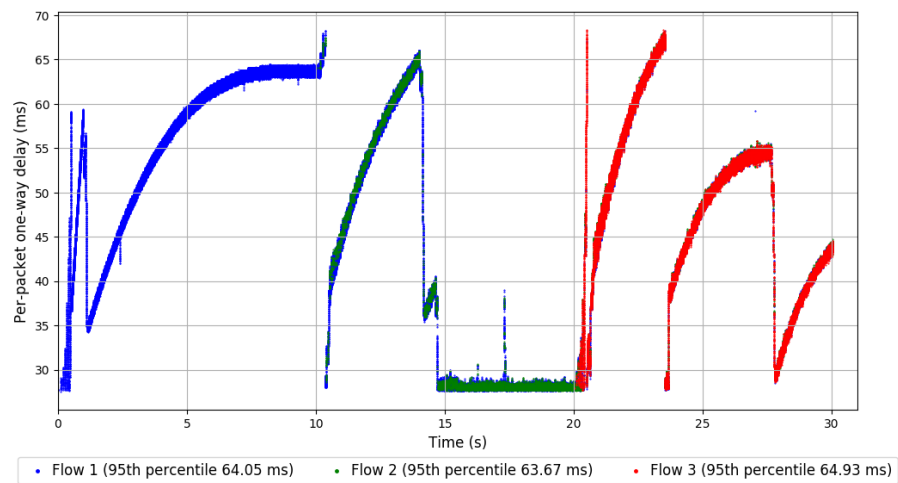
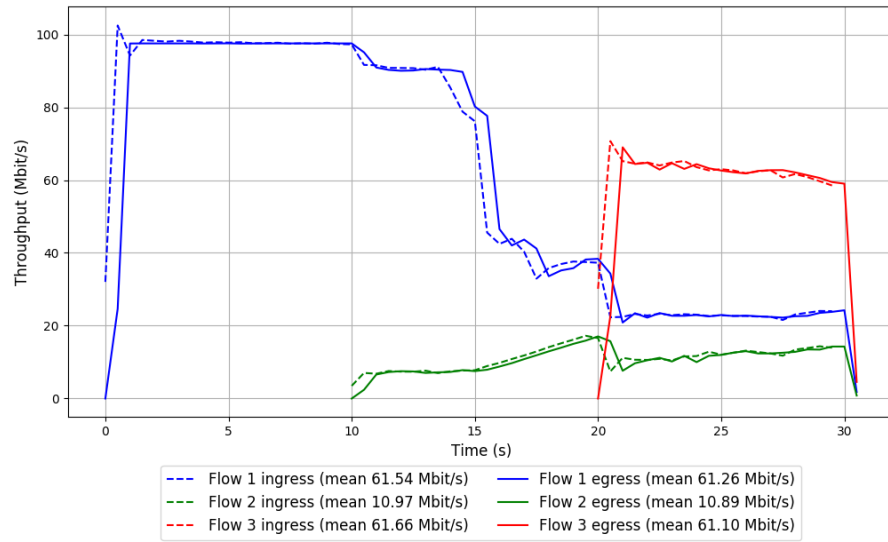
-- Flow 3:

Average throughput: 61.10 Mbit/s

95th percentile per-packet one-way delay: 64.927 ms

Loss rate: 0.74%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-24 17:13:30

End at: 2018-05-24 17:14:00

Local clock offset: 0.033 ms

Remote clock offset: 2.974 ms

Below is generated by plot.py at 2018-05-24 17:31:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.51 Mbit/s

95th percentile per-packet one-way delay: 65.958 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 63.24 Mbit/s

95th percentile per-packet one-way delay: 67.256 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 30.22 Mbit/s

95th percentile per-packet one-way delay: 55.377 ms

Loss rate: 0.36%

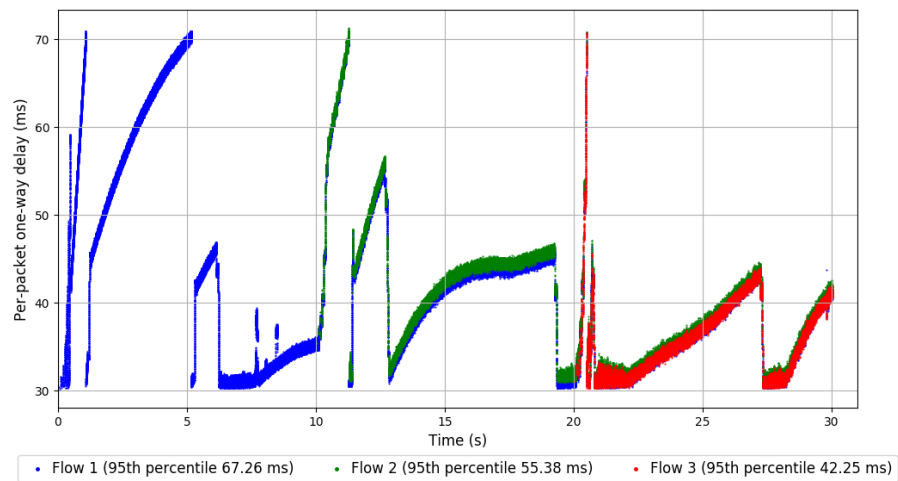
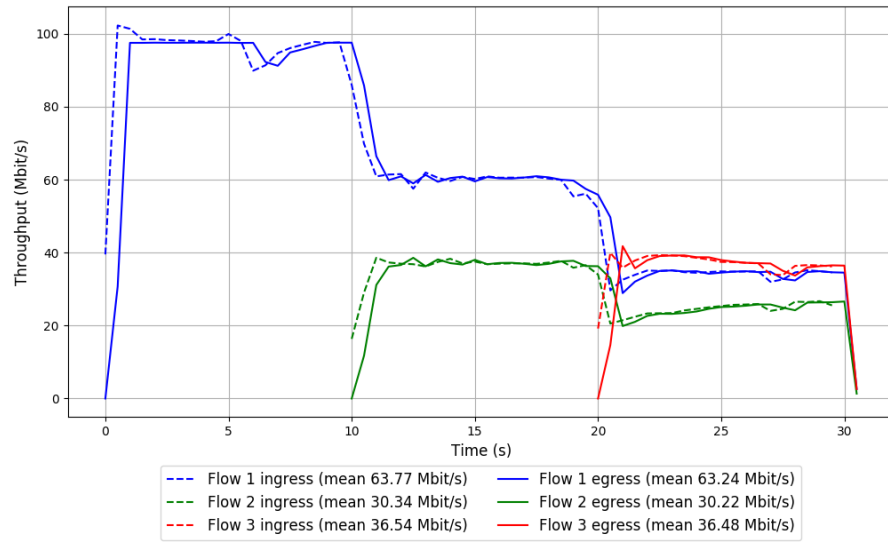
-- Flow 3:

Average throughput: 36.48 Mbit/s

95th percentile per-packet one-way delay: 42.247 ms

Loss rate: 0.07%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-24 14:11:24

End at: 2018-05-24 14:11:54

Local clock offset: 0.022 ms

Remote clock offset: 3.097 ms

Below is generated by plot.py at 2018-05-24 17:32:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.96 Mbit/s

95th percentile per-packet one-way delay: 67.878 ms

Loss rate: 27.33%

-- Flow 1:

Average throughput: 59.74 Mbit/s

95th percentile per-packet one-way delay: 67.557 ms

Loss rate: 21.01%

-- Flow 2:

Average throughput: 33.82 Mbit/s

95th percentile per-packet one-way delay: 67.950 ms

Loss rate: 36.16%

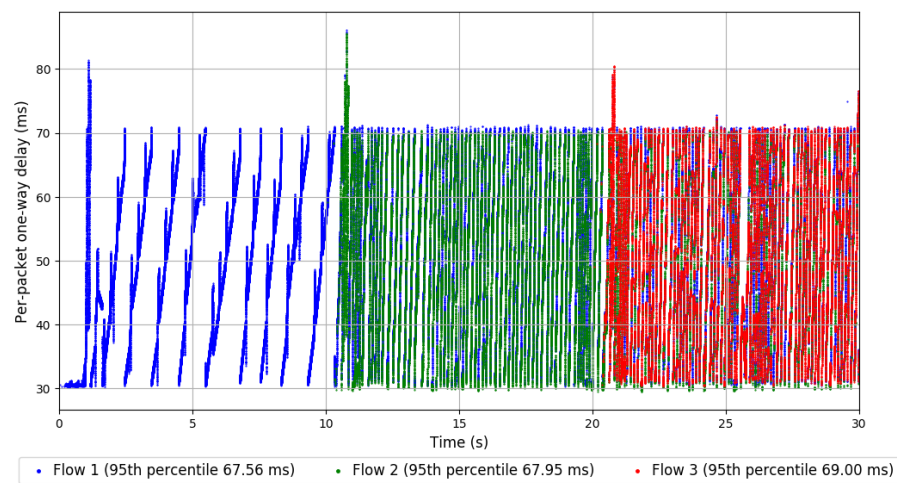
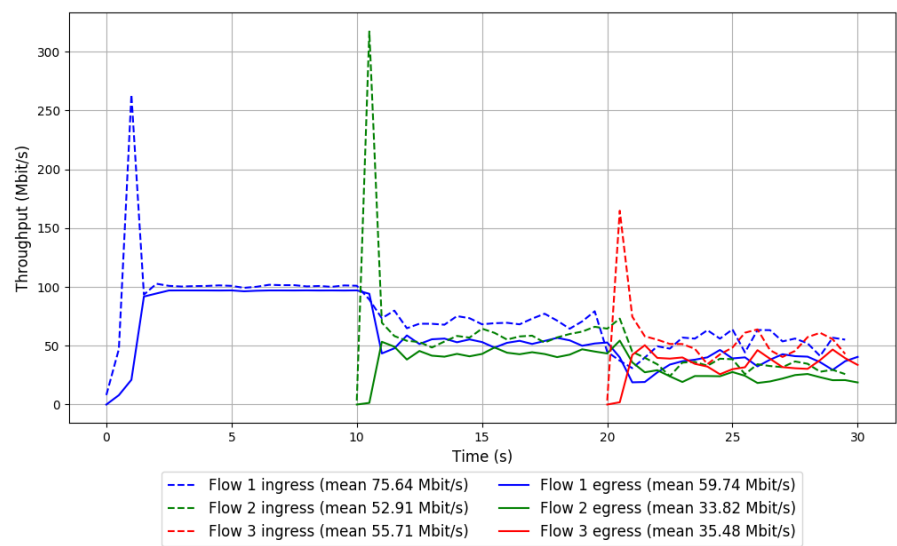
-- Flow 3:

Average throughput: 35.48 Mbit/s

95th percentile per-packet one-way delay: 69.002 ms

Loss rate: 36.39%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-24 14:32:39

End at: 2018-05-24 14:33:09

Local clock offset: -0.596 ms

Remote clock offset: 3.495 ms

Below is generated by plot.py at 2018-05-24 17:32:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.84 Mbit/s

95th percentile per-packet one-way delay: 68.143 ms

Loss rate: 24.82%

-- Flow 1:

Average throughput: 59.41 Mbit/s

95th percentile per-packet one-way delay: 67.680 ms

Loss rate: 20.91%

-- Flow 2:

Average throughput: 37.50 Mbit/s

95th percentile per-packet one-way delay: 68.848 ms

Loss rate: 31.25%

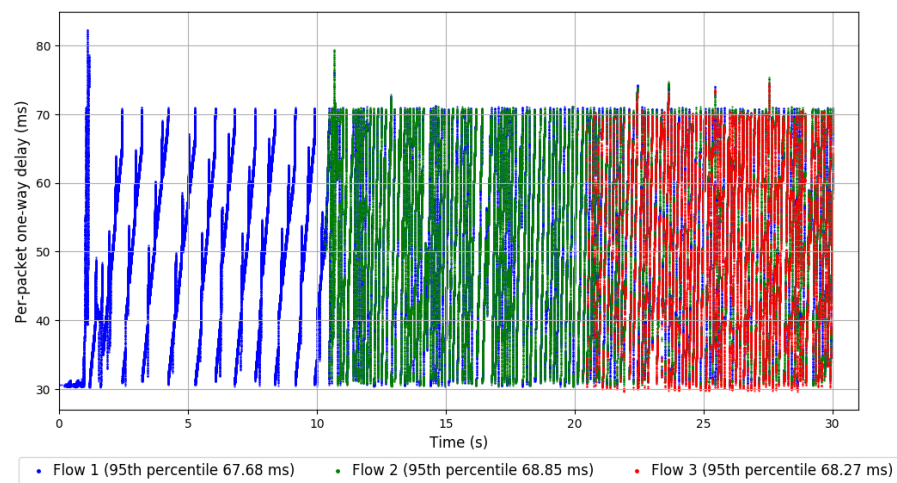
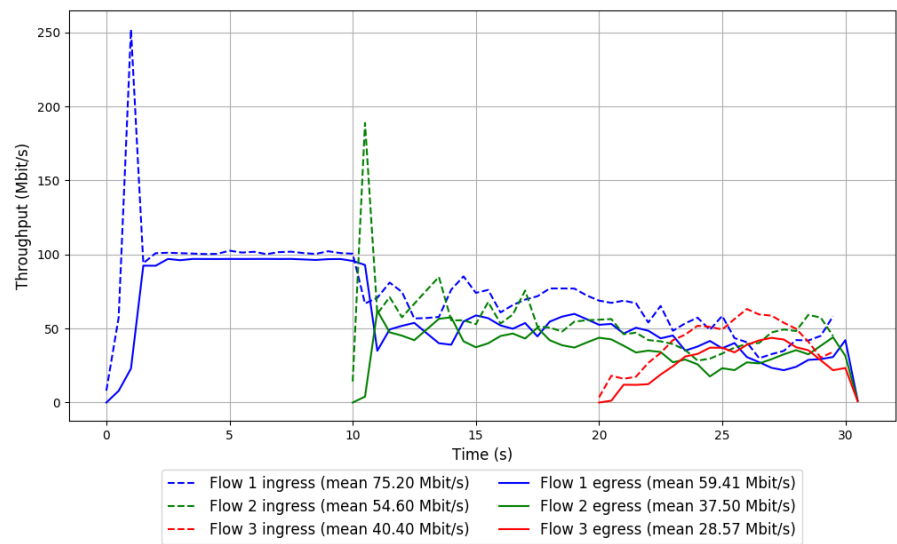
-- Flow 3:

Average throughput: 28.57 Mbit/s

95th percentile per-packet one-way delay: 68.269 ms

Loss rate: 29.32%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-24 14:53:55

End at: 2018-05-24 14:54:25

Local clock offset: -1.047 ms

Remote clock offset: 1.893 ms

Below is generated by plot.py at 2018-05-24 17:32:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.46 Mbit/s

95th percentile per-packet one-way delay: 65.664 ms

Loss rate: 29.37%

-- Flow 1:

Average throughput: 62.89 Mbit/s

95th percentile per-packet one-way delay: 65.082 ms

Loss rate: 22.60%

-- Flow 2:

Average throughput: 33.68 Mbit/s

95th percentile per-packet one-way delay: 66.649 ms

Loss rate: 37.14%

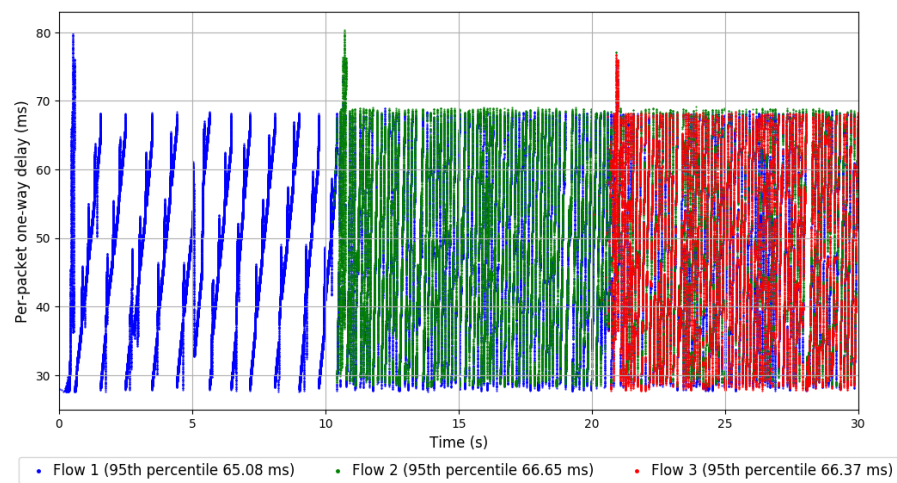
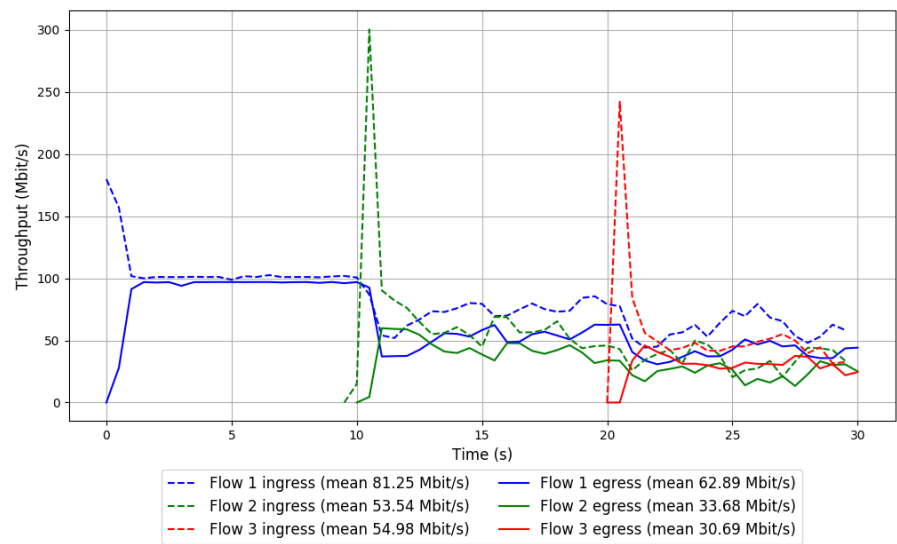
-- Flow 3:

Average throughput: 30.69 Mbit/s

95th percentile per-packet one-way delay: 66.372 ms

Loss rate: 44.30%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-24 15:15:12

End at: 2018-05-24 15:15:42

Local clock offset: 0.259 ms

Remote clock offset: 2.106 ms

Below is generated by plot.py at 2018-05-24 17:32:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.32 Mbit/s

95th percentile per-packet one-way delay: 65.407 ms

Loss rate: 24.44%

-- Flow 1:

Average throughput: 56.67 Mbit/s

95th percentile per-packet one-way delay: 64.906 ms

Loss rate: 18.37%

-- Flow 2:

Average throughput: 36.17 Mbit/s

95th percentile per-packet one-way delay: 65.707 ms

Loss rate: 31.16%

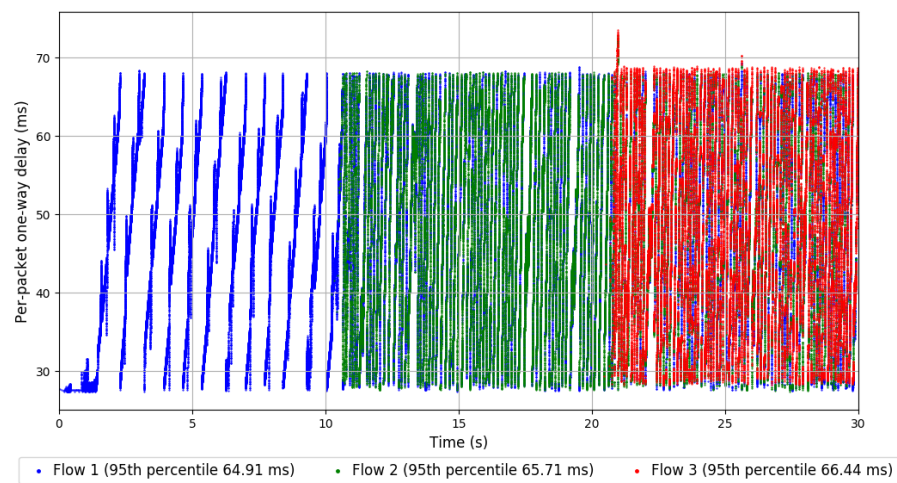
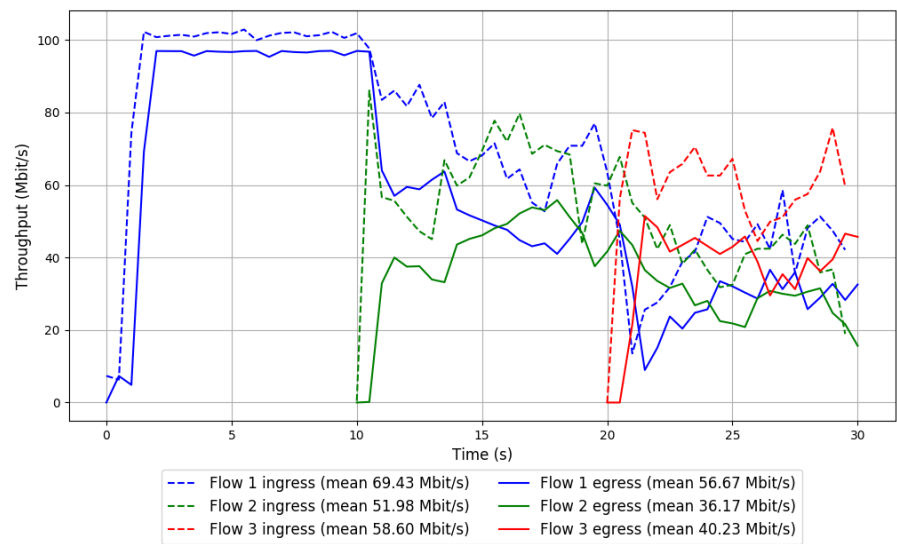
-- Flow 3:

Average throughput: 40.23 Mbit/s

95th percentile per-packet one-way delay: 66.436 ms

Loss rate: 34.13%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-24 15:36:29

End at: 2018-05-24 15:36:59

Local clock offset: 0.403 ms

Remote clock offset: 4.321 ms

Below is generated by plot.py at 2018-05-24 17:33:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.51 Mbit/s

95th percentile per-packet one-way delay: 67.915 ms

Loss rate: 25.45%

-- Flow 1:

Average throughput: 58.38 Mbit/s

95th percentile per-packet one-way delay: 67.625 ms

Loss rate: 18.26%

-- Flow 2:

Average throughput: 37.83 Mbit/s

95th percentile per-packet one-way delay: 67.971 ms

Loss rate: 31.11%

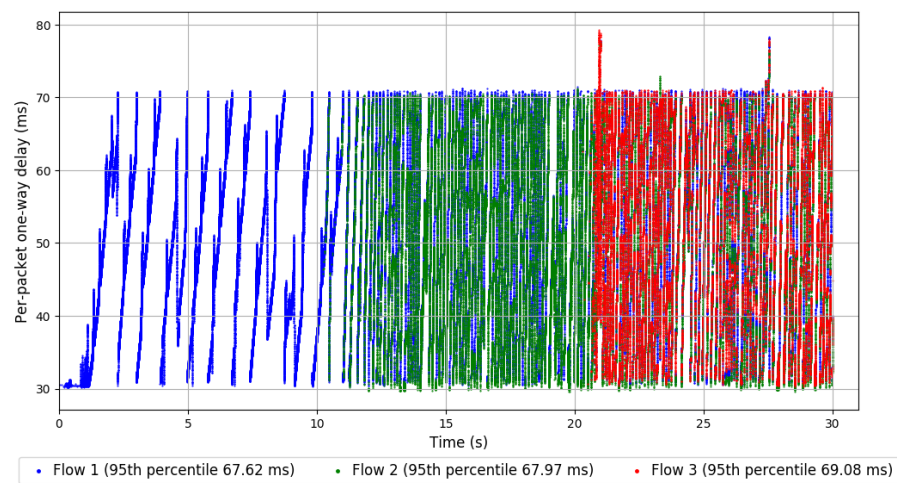
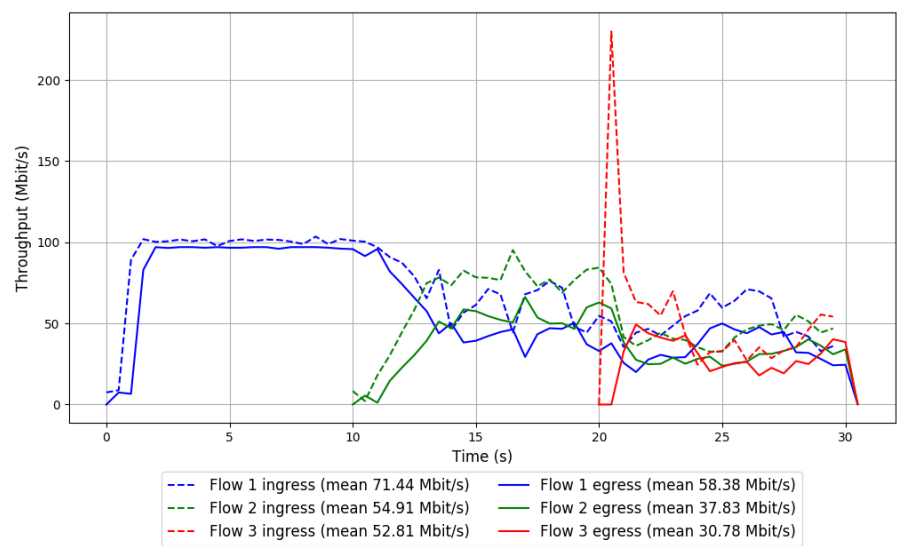
-- Flow 3:

Average throughput: 30.78 Mbit/s

95th percentile per-packet one-way delay: 69.081 ms

Loss rate: 43.00%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-24 15:57:45

End at: 2018-05-24 15:58:15

Local clock offset: 0.337 ms

Remote clock offset: 3.458 ms

Below is generated by plot.py at 2018-05-24 17:33:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 68.000 ms

Loss rate: 24.92%

-- Flow 1:

Average throughput: 60.56 Mbit/s

95th percentile per-packet one-way delay: 67.682 ms

Loss rate: 22.03%

-- Flow 2:

Average throughput: 41.47 Mbit/s

95th percentile per-packet one-way delay: 68.444 ms

Loss rate: 29.75%

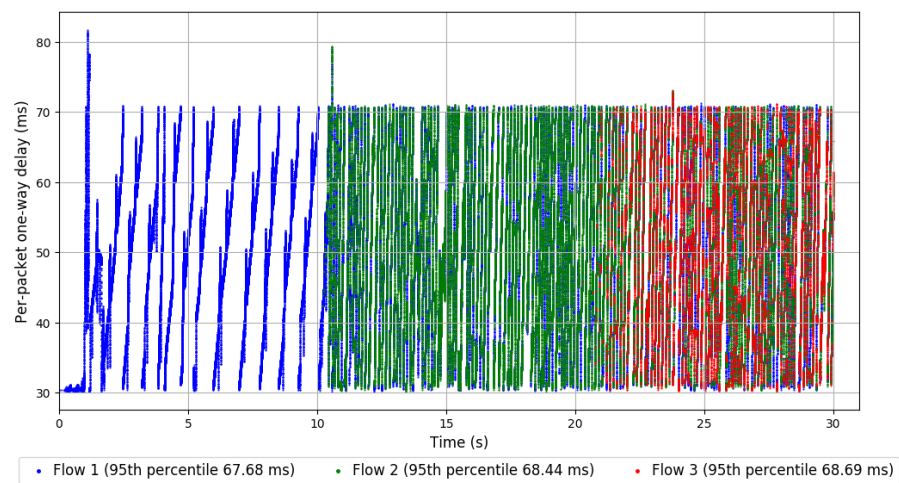
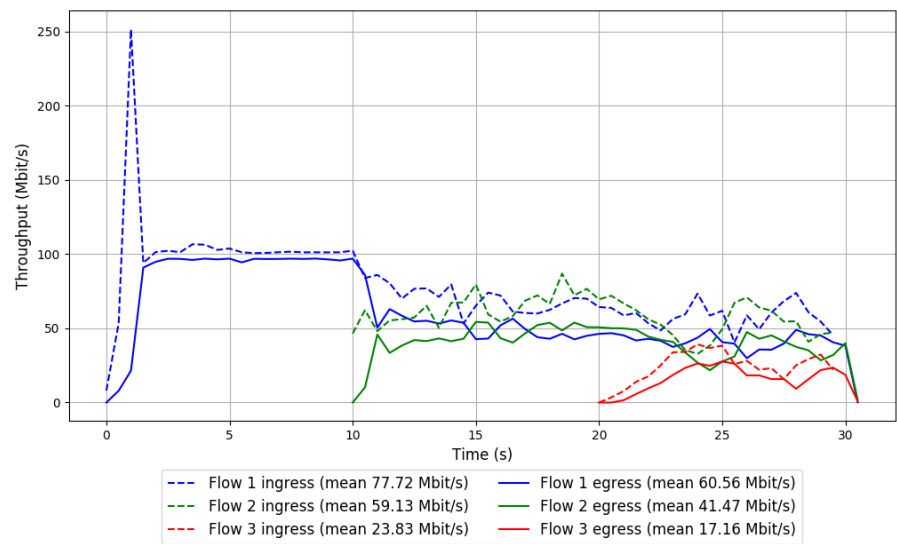
-- Flow 3:

Average throughput: 17.16 Mbit/s

95th percentile per-packet one-way delay: 68.685 ms

Loss rate: 29.33%

Run 6: Report of FillP — Data Link

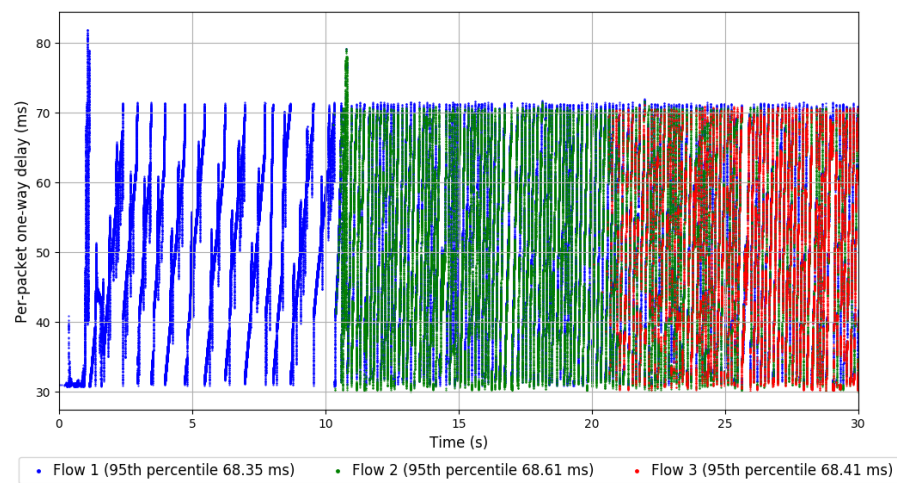
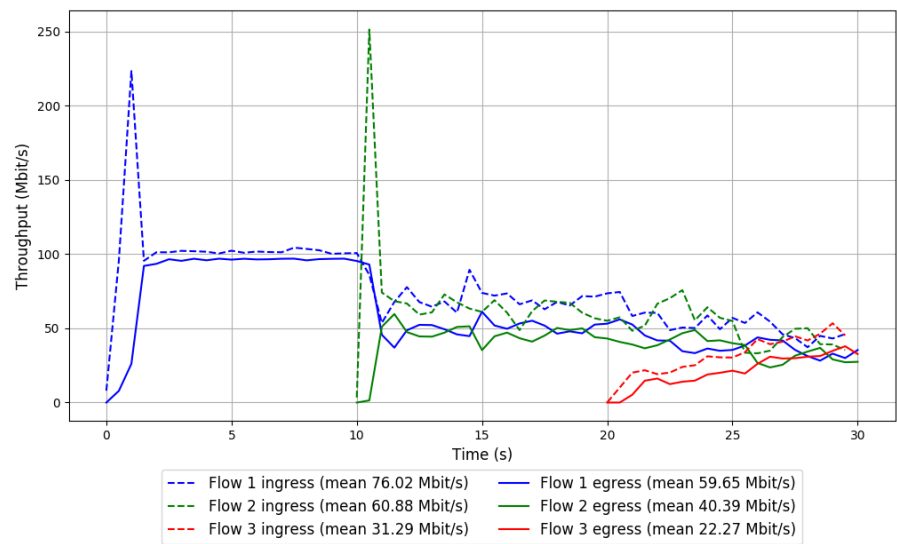


Run 7: Statistics of FillP

Start at: 2018-05-24 16:19:01
End at: 2018-05-24 16:19:31
Local clock offset: -0.108 ms
Remote clock offset: 3.649 ms

Below is generated by plot.py at 2018-05-24 17:33:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.86 Mbit/s
95th percentile per-packet one-way delay: 68.455 ms
Loss rate: 26.01%
-- Flow 1:
Average throughput: 59.65 Mbit/s
95th percentile per-packet one-way delay: 68.354 ms
Loss rate: 21.51%
-- Flow 2:
Average throughput: 40.39 Mbit/s
95th percentile per-packet one-way delay: 68.606 ms
Loss rate: 33.72%
-- Flow 3:
Average throughput: 22.27 Mbit/s
95th percentile per-packet one-way delay: 68.406 ms
Loss rate: 28.89%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-24 16:40:15

End at: 2018-05-24 16:40:45

Local clock offset: 0.126 ms

Remote clock offset: 1.392 ms

Below is generated by plot.py at 2018-05-24 17:33:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 65.719 ms

Loss rate: 28.49%

-- Flow 1:

Average throughput: 60.40 Mbit/s

95th percentile per-packet one-way delay: 65.253 ms

Loss rate: 21.96%

-- Flow 2:

Average throughput: 36.34 Mbit/s

95th percentile per-packet one-way delay: 66.431 ms

Loss rate: 35.98%

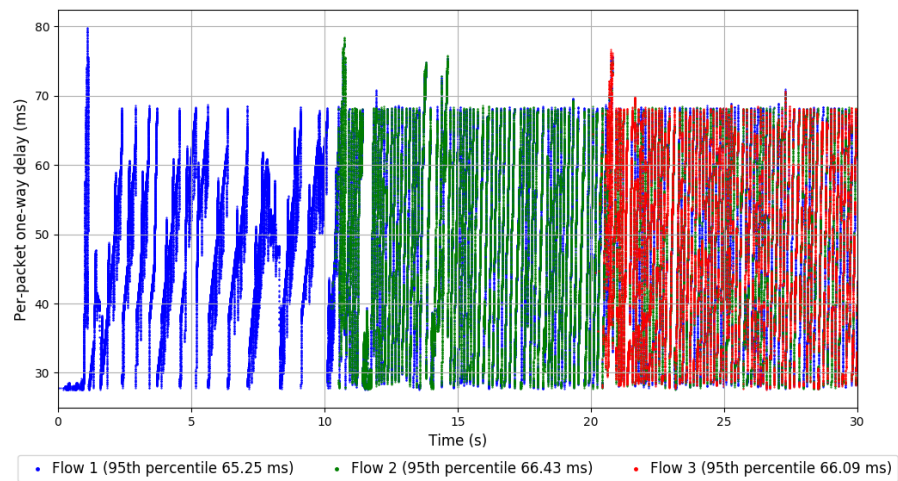
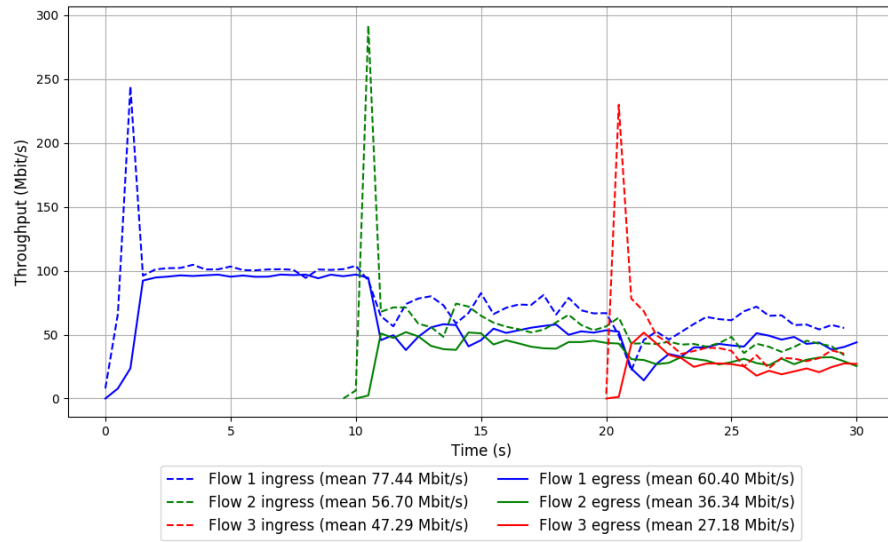
-- Flow 3:

Average throughput: 27.18 Mbit/s

95th percentile per-packet one-way delay: 66.094 ms

Loss rate: 42.66%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-24 17:01:30

End at: 2018-05-24 17:02:00

Local clock offset: 0.22 ms

Remote clock offset: 2.742 ms

Below is generated by plot.py at 2018-05-24 17:34:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.38 Mbit/s

95th percentile per-packet one-way delay: 67.787 ms

Loss rate: 26.38%

-- Flow 1:

Average throughput: 60.64 Mbit/s

95th percentile per-packet one-way delay: 67.194 ms

Loss rate: 19.44%

-- Flow 2:

Average throughput: 34.55 Mbit/s

95th percentile per-packet one-way delay: 68.680 ms

Loss rate: 32.26%

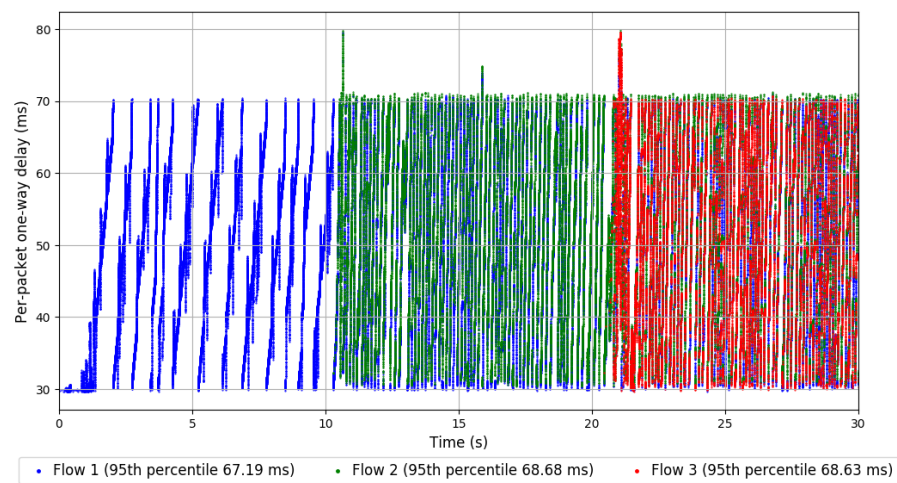
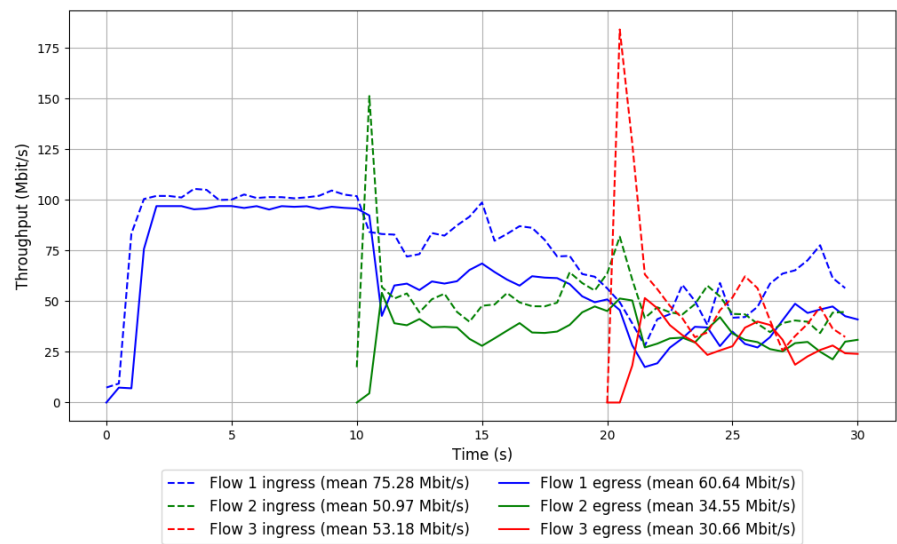
-- Flow 3:

Average throughput: 30.66 Mbit/s

95th percentile per-packet one-way delay: 68.631 ms

Loss rate: 44.69%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-24 17:22:47

End at: 2018-05-24 17:23:17

Local clock offset: 0.17 ms

Remote clock offset: 2.284 ms

Below is generated by plot.py at 2018-05-24 17:34:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.87 Mbit/s

95th percentile per-packet one-way delay: 67.632 ms

Loss rate: 28.40%

-- Flow 1:

Average throughput: 57.81 Mbit/s

95th percentile per-packet one-way delay: 67.269 ms

Loss rate: 22.63%

-- Flow 2:

Average throughput: 38.11 Mbit/s

95th percentile per-packet one-way delay: 67.996 ms

Loss rate: 31.24%

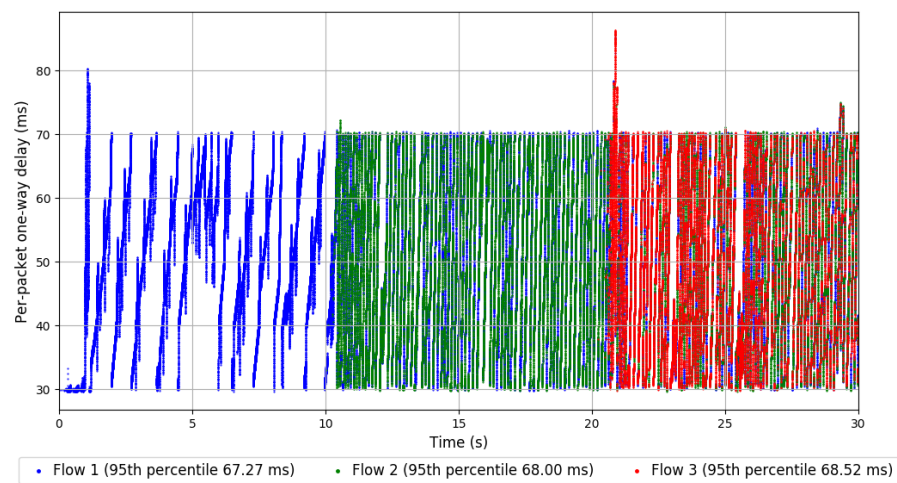
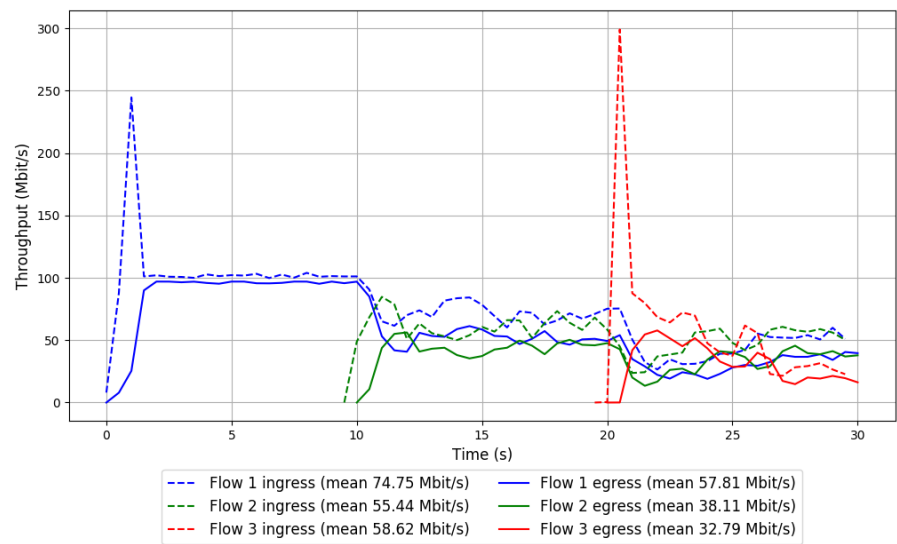
-- Flow 3:

Average throughput: 32.79 Mbit/s

95th percentile per-packet one-way delay: 68.521 ms

Loss rate: 45.18%

Run 10: Report of FillP — Data Link

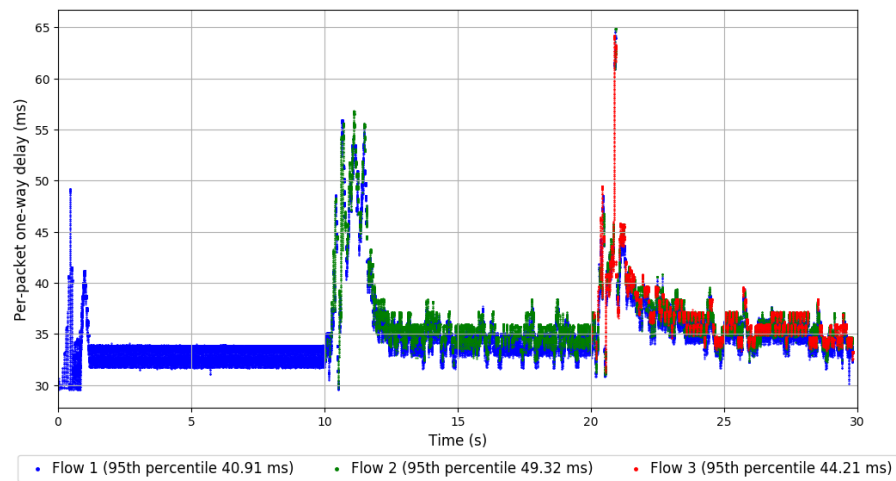
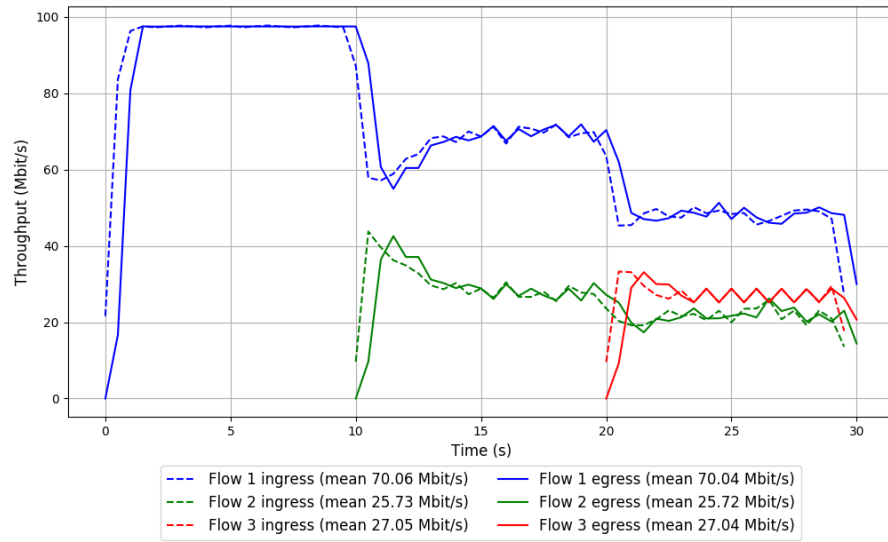


```
Run 1: Statistics of Indigo

Start at: 2018-05-24 13:56:42
End at: 2018-05-24 13:57:12
Local clock offset: 1.626 ms
Remote clock offset: 2.991 ms

# Below is generated by plot.py at 2018-05-24 17:34:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 43.039 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 70.04 Mbit/s
95th percentile per-packet one-way delay: 40.914 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 25.72 Mbit/s
95th percentile per-packet one-way delay: 49.322 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.04 Mbit/s
95th percentile per-packet one-way delay: 44.206 ms
Loss rate: 0.04%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-24 14:17:58

End at: 2018-05-24 14:18:28

Local clock offset: -0.173 ms

Remote clock offset: 1.034 ms

Below is generated by plot.py at 2018-05-24 17:34:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.42 Mbit/s

95th percentile per-packet one-way delay: 35.882 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 68.40 Mbit/s

95th percentile per-packet one-way delay: 35.315 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 25.33 Mbit/s

95th percentile per-packet one-way delay: 36.120 ms

Loss rate: 0.13%

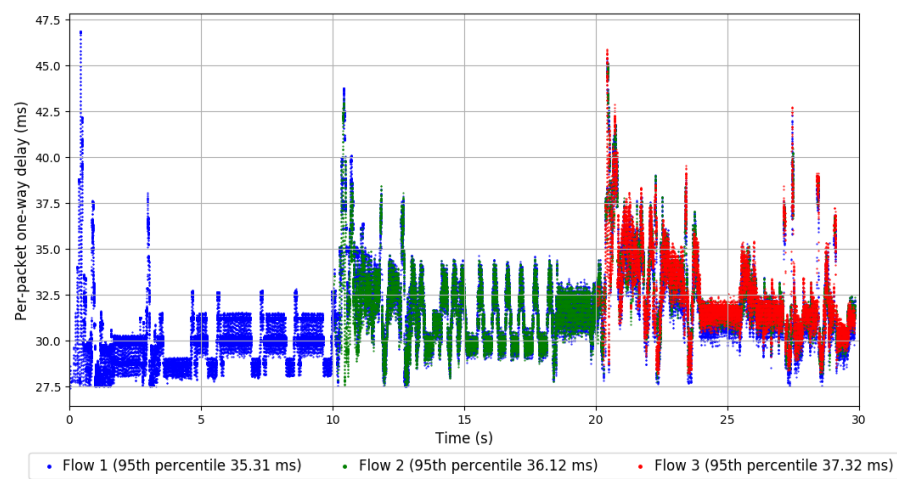
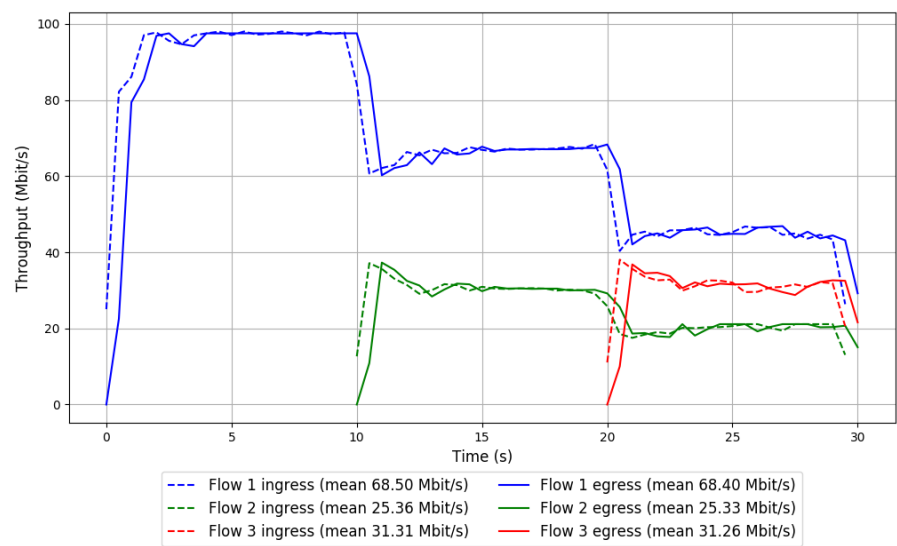
-- Flow 3:

Average throughput: 31.26 Mbit/s

95th percentile per-packet one-way delay: 37.321 ms

Loss rate: 0.17%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-24 14:39:14

End at: 2018-05-24 14:39:44

Local clock offset: -0.679 ms

Remote clock offset: 3.65 ms

Below is generated by plot.py at 2018-05-24 17:34:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 40.730 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 70.54 Mbit/s

95th percentile per-packet one-way delay: 38.982 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 26.18 Mbit/s

95th percentile per-packet one-way delay: 47.548 ms

Loss rate: 0.28%

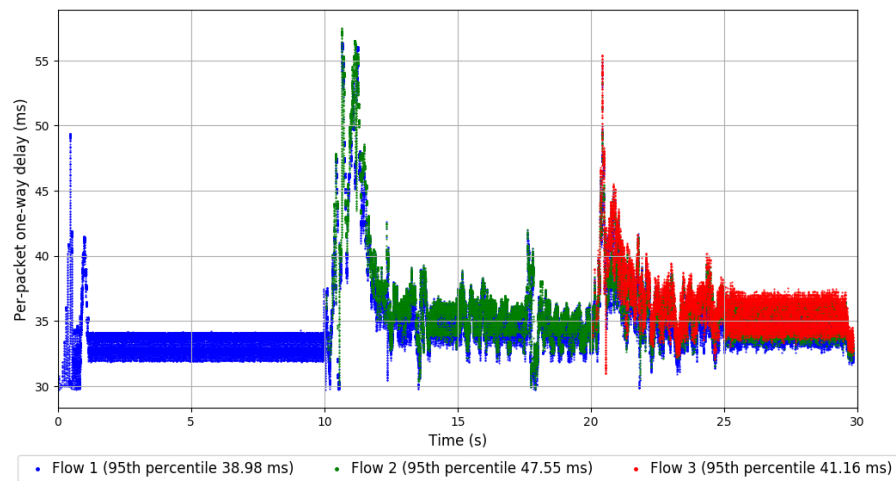
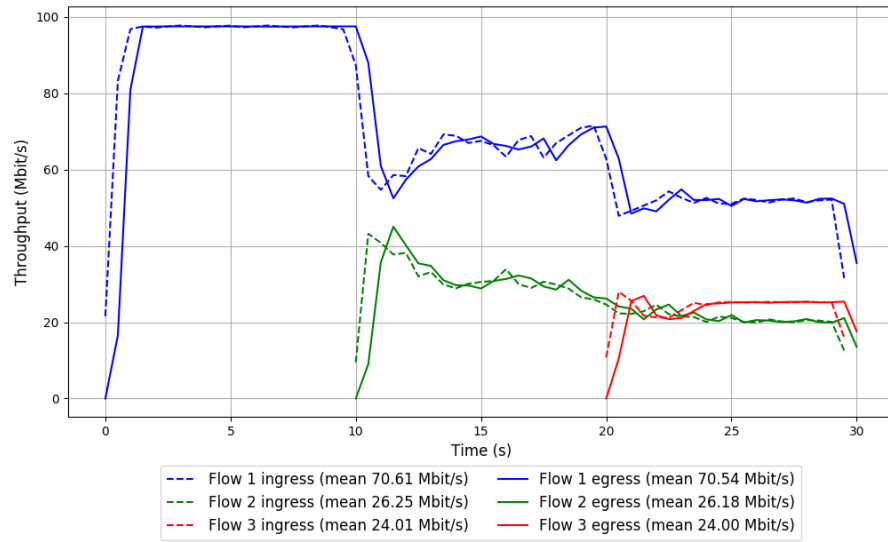
-- Flow 3:

Average throughput: 24.00 Mbit/s

95th percentile per-packet one-way delay: 41.157 ms

Loss rate: 0.05%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-24 15:00:30

End at: 2018-05-24 15:01:00

Local clock offset: -0.37 ms

Remote clock offset: 4.018 ms

Below is generated by plot.py at 2018-05-24 17:34:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 40.132 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 67.01 Mbit/s

95th percentile per-packet one-way delay: 39.410 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 27.80 Mbit/s

95th percentile per-packet one-way delay: 40.762 ms

Loss rate: 0.03%

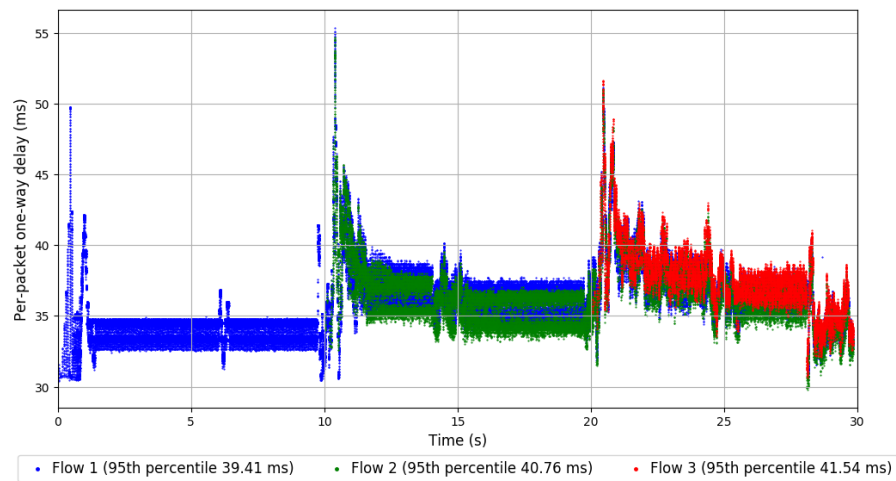
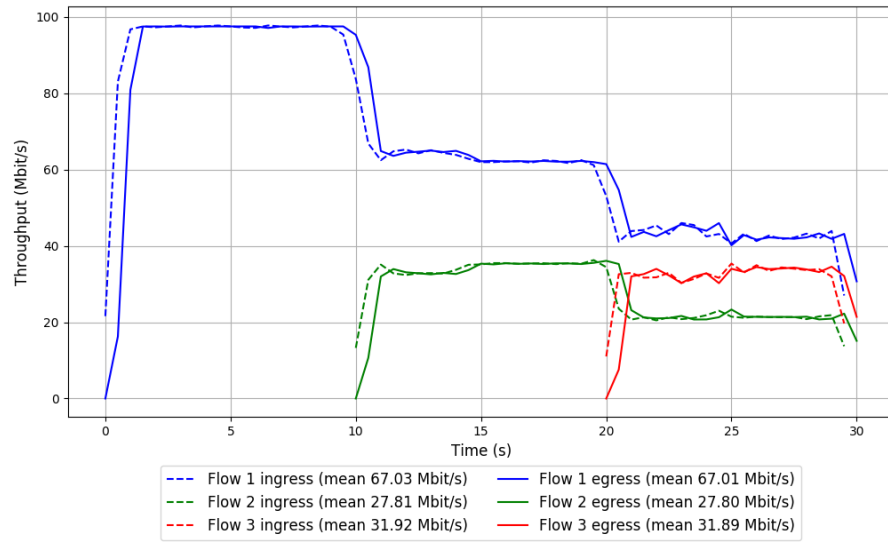
-- Flow 3:

Average throughput: 31.89 Mbit/s

95th percentile per-packet one-way delay: 41.538 ms

Loss rate: 0.11%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-24 15:21:48

End at: 2018-05-24 15:22:18

Local clock offset: 0.326 ms

Remote clock offset: 2.21 ms

Below is generated by plot.py at 2018-05-24 17:34:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.23 Mbit/s

95th percentile per-packet one-way delay: 40.289 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 67.72 Mbit/s

95th percentile per-packet one-way delay: 38.803 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 28.43 Mbit/s

95th percentile per-packet one-way delay: 45.914 ms

Loss rate: 0.36%

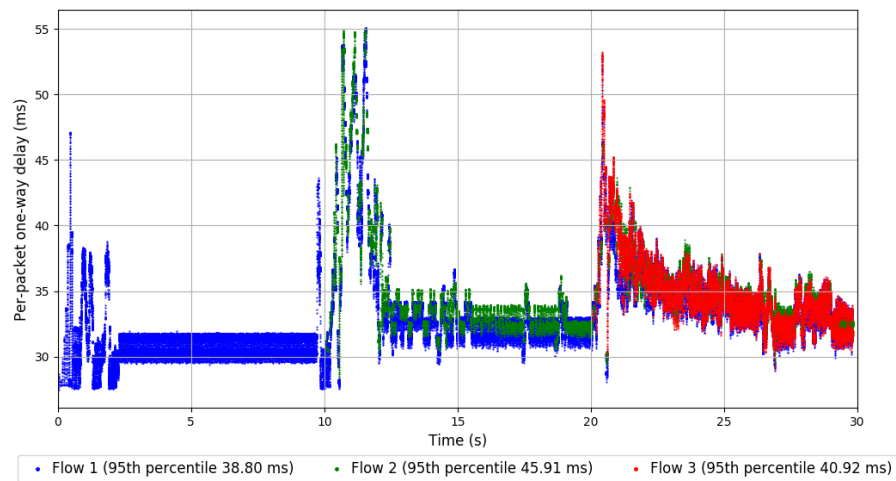
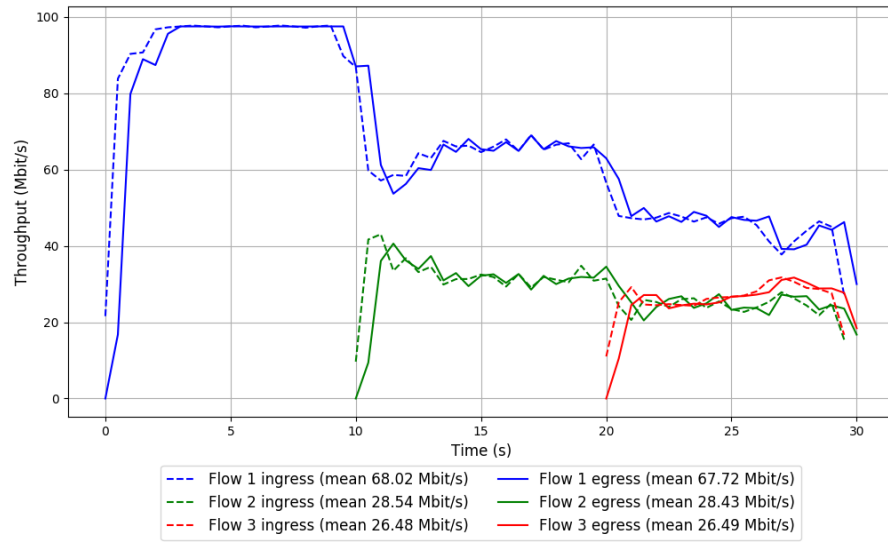
-- Flow 3:

Average throughput: 26.49 Mbit/s

95th percentile per-packet one-way delay: 40.921 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-24 15:43:04

End at: 2018-05-24 15:43:34

Local clock offset: 0.325 ms

Remote clock offset: 3.646 ms

Below is generated by plot.py at 2018-05-24 17:34:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.56 Mbit/s

95th percentile per-packet one-way delay: 40.580 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 69.22 Mbit/s

95th percentile per-packet one-way delay: 39.574 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 25.26 Mbit/s

95th percentile per-packet one-way delay: 42.360 ms

Loss rate: 0.54%

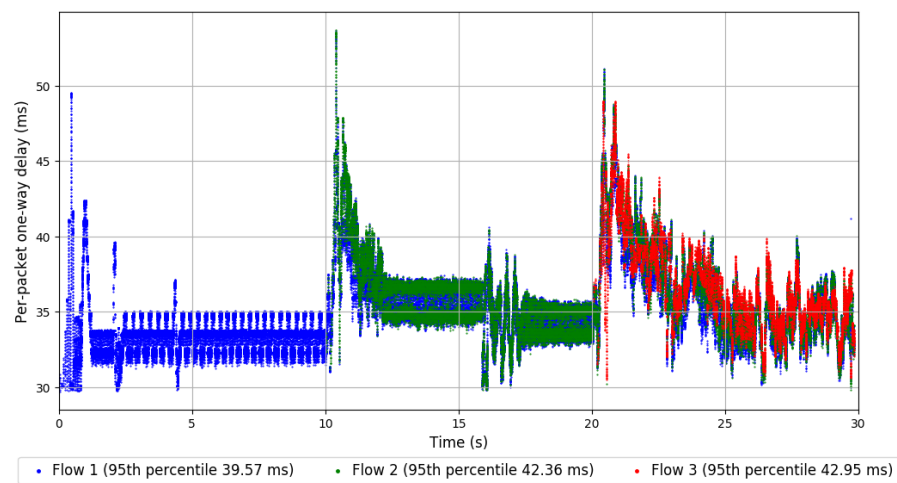
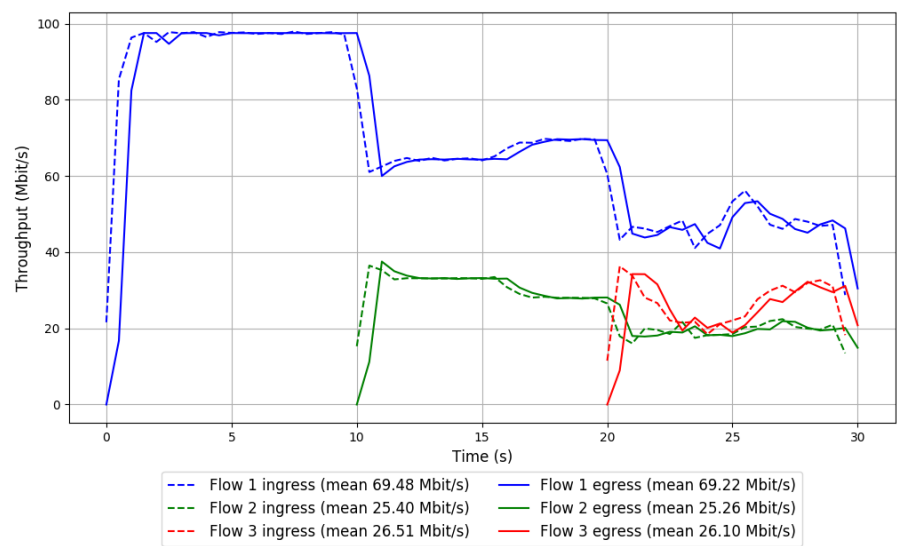
-- Flow 3:

Average throughput: 26.10 Mbit/s

95th percentile per-packet one-way delay: 42.953 ms

Loss rate: 1.58%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-24 16:04:20

End at: 2018-05-24 16:04:50

Local clock offset: 0.216 ms

Remote clock offset: 1.565 ms

Below is generated by plot.py at 2018-05-24 17:35:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 38.166 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 66.93 Mbit/s

95th percentile per-packet one-way delay: 37.328 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 28.30 Mbit/s

95th percentile per-packet one-way delay: 40.285 ms

Loss rate: 0.02%

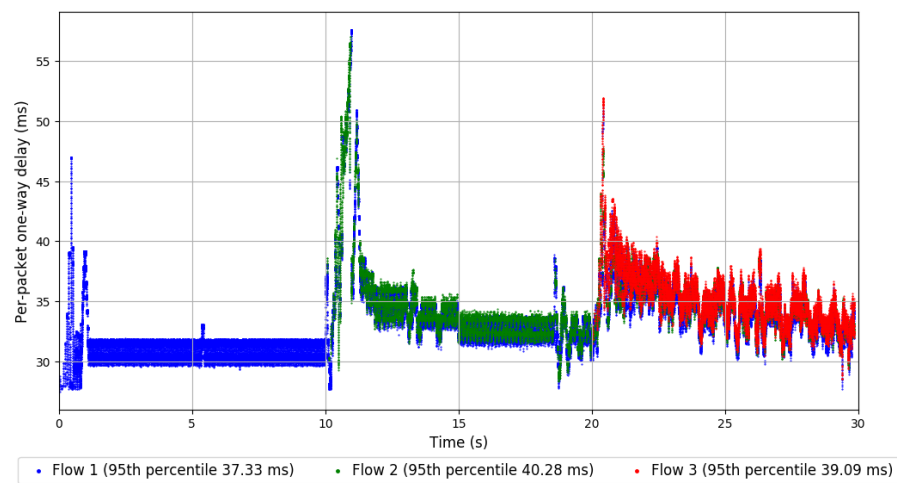
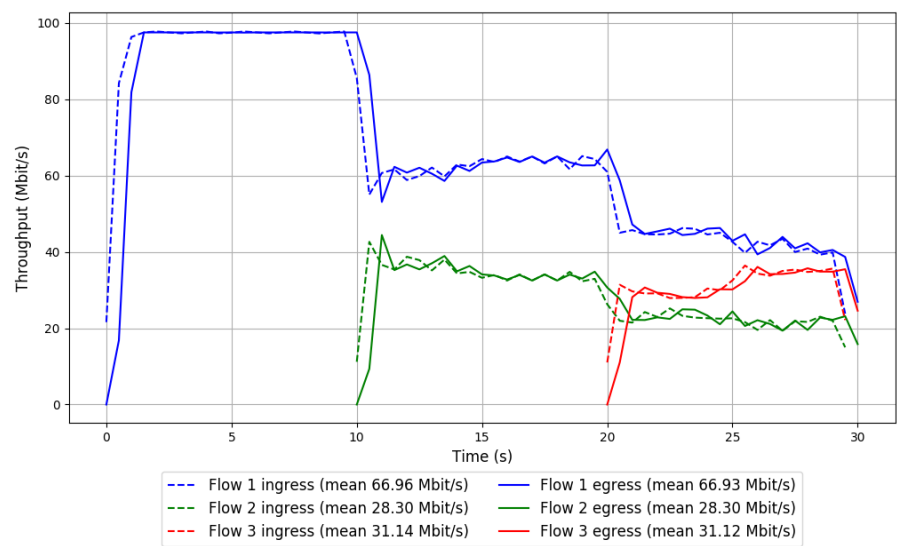
-- Flow 3:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 39.085 ms

Loss rate: 0.03%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-24 16:25:35

End at: 2018-05-24 16:26:05

Local clock offset: -0.146 ms

Remote clock offset: 3.201 ms

Below is generated by plot.py at 2018-05-24 17:35:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 38.645 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 65.77 Mbit/s

95th percentile per-packet one-way delay: 38.439 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 28.08 Mbit/s

95th percentile per-packet one-way delay: 38.369 ms

Loss rate: 0.16%

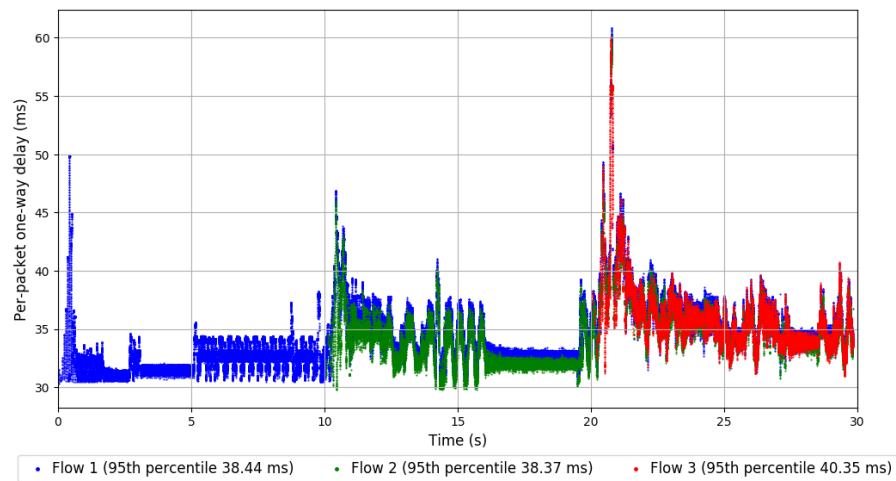
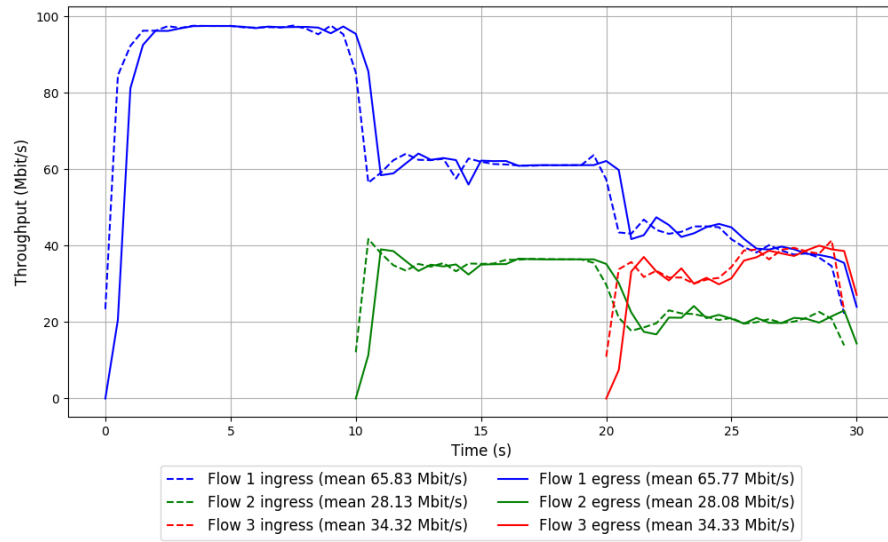
-- Flow 3:

Average throughput: 34.33 Mbit/s

95th percentile per-packet one-way delay: 40.351 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-24 16:46:49

End at: 2018-05-24 16:47:19

Local clock offset: 0.134 ms

Remote clock offset: 3.443 ms

Below is generated by plot.py at 2018-05-24 17:35:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.78 Mbit/s

95th percentile per-packet one-way delay: 37.559 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 68.09 Mbit/s

95th percentile per-packet one-way delay: 37.195 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 20.05 Mbit/s

95th percentile per-packet one-way delay: 37.392 ms

Loss rate: 0.37%

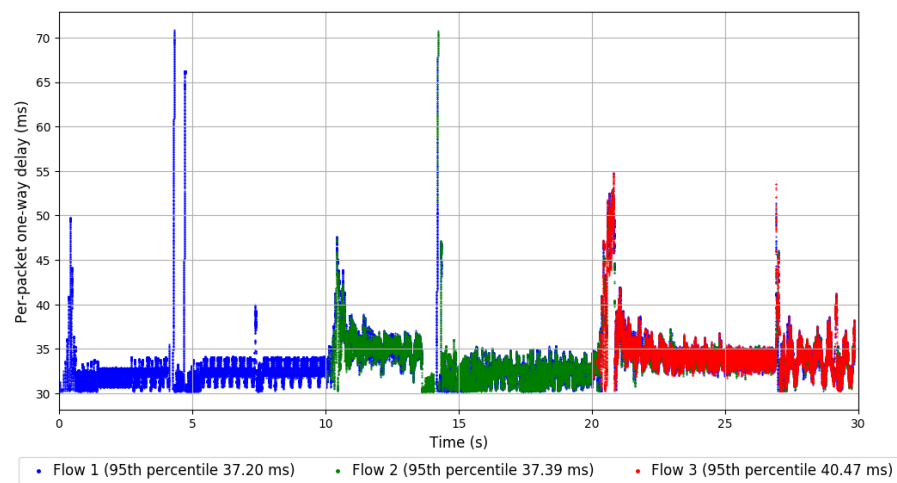
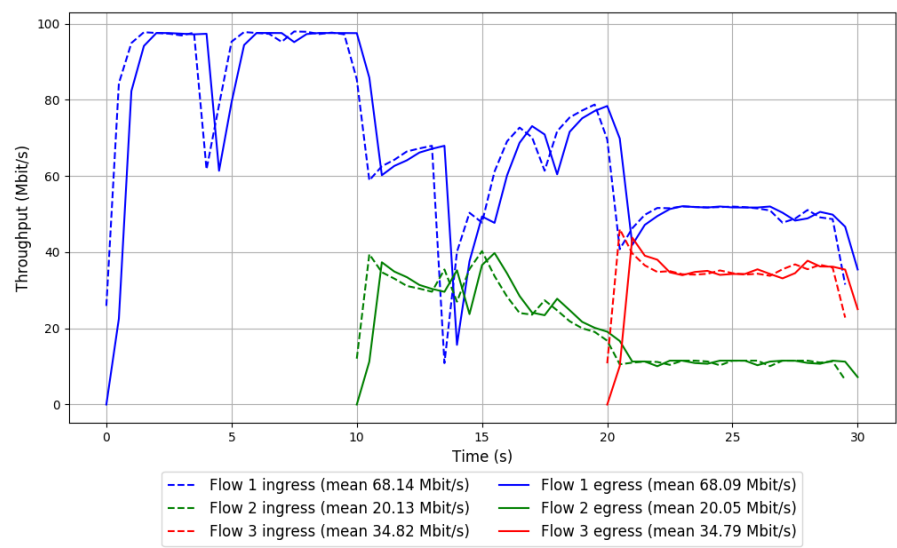
-- Flow 3:

Average throughput: 34.79 Mbit/s

95th percentile per-packet one-way delay: 40.473 ms

Loss rate: 0.08%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-24 17:08:06

End at: 2018-05-24 17:08:36

Local clock offset: 0.14 ms

Remote clock offset: 2.474 ms

Below is generated by plot.py at 2018-05-24 17:35:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.36 Mbit/s

95th percentile per-packet one-way delay: 38.908 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 66.61 Mbit/s

95th percentile per-packet one-way delay: 37.839 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 27.32 Mbit/s

95th percentile per-packet one-way delay: 38.351 ms

Loss rate: 0.36%

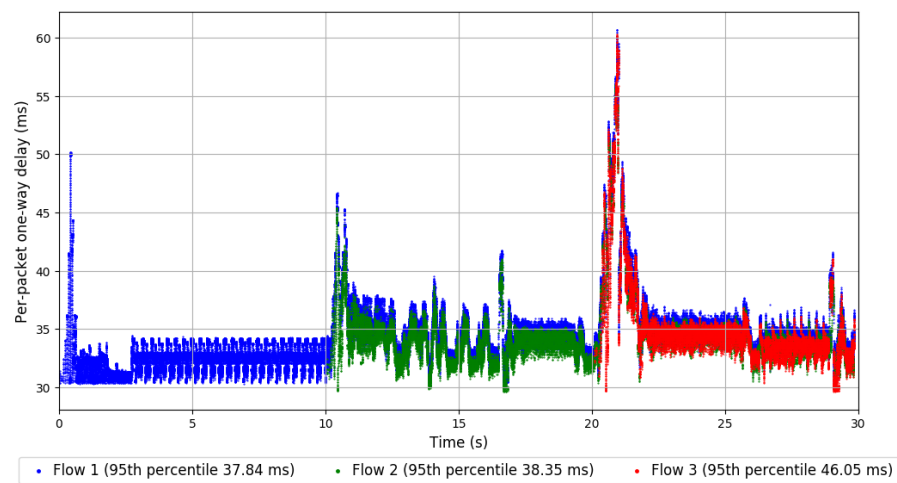
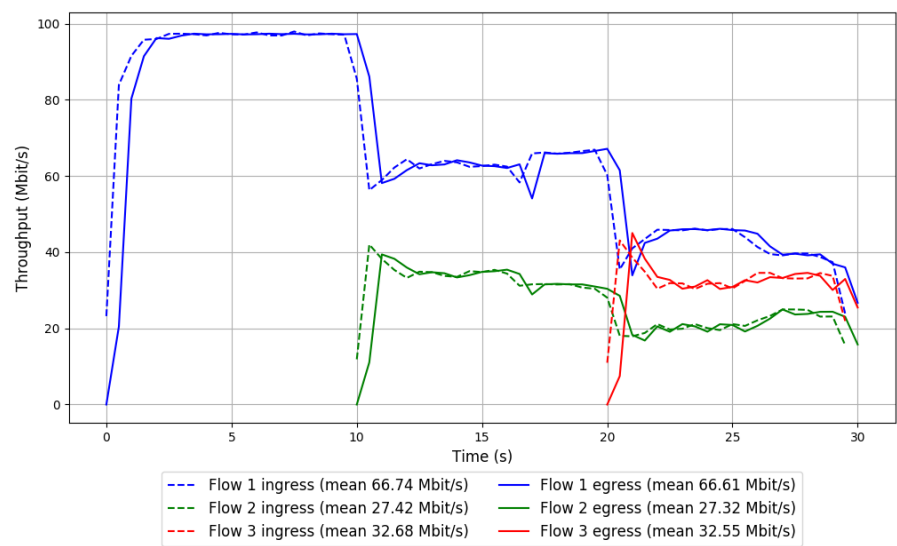
-- Flow 3:

Average throughput: 32.55 Mbit/s

95th percentile per-packet one-way delay: 46.048 ms

Loss rate: 0.39%

Run 10: Report of Indigo — Data Link

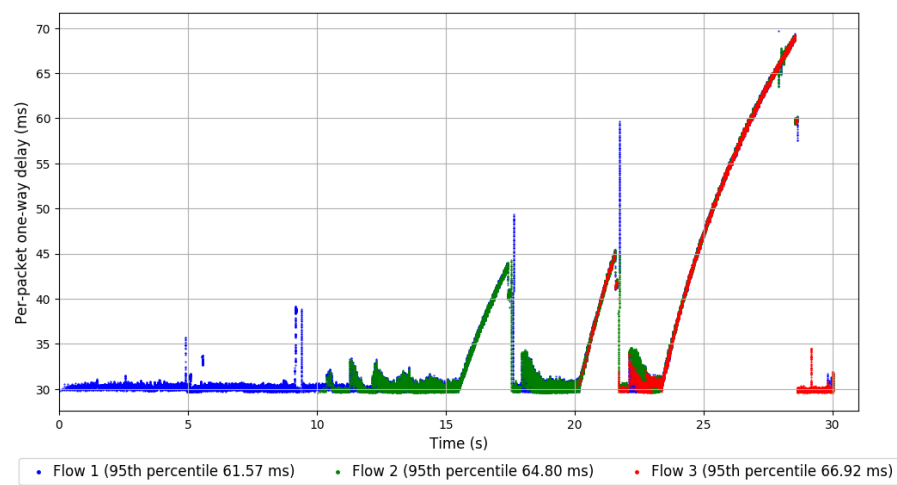
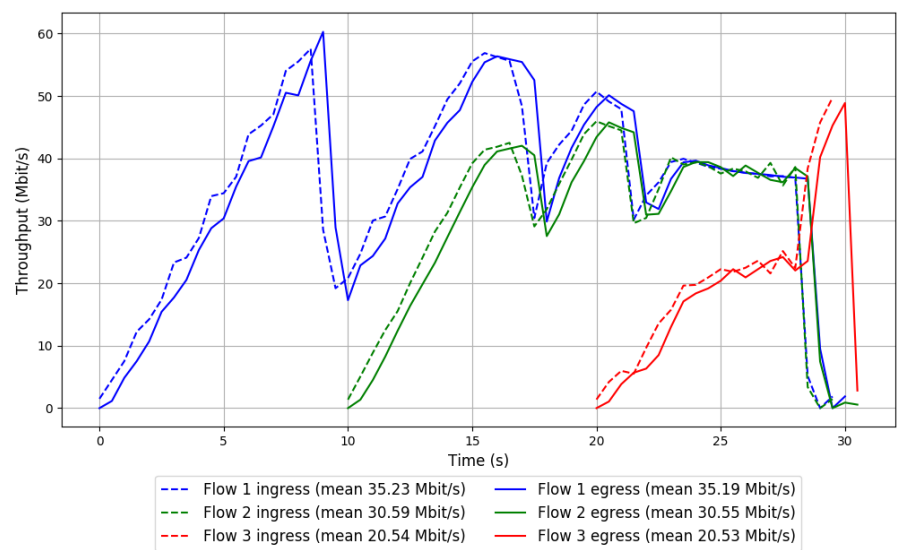


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-24 14:10:03
End at: 2018-05-24 14:10:33
Local clock offset: 0.189 ms
Remote clock offset: 3.117 ms

# Below is generated by plot.py at 2018-05-24 17:35:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.33 Mbit/s
95th percentile per-packet one-way delay: 64.227 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 35.19 Mbit/s
95th percentile per-packet one-way delay: 61.569 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 30.55 Mbit/s
95th percentile per-packet one-way delay: 64.796 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 20.53 Mbit/s
95th percentile per-packet one-way delay: 66.918 ms
Loss rate: 0.04%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-24 14:31:20

End at: 2018-05-24 14:31:50

Local clock offset: -0.473 ms

Remote clock offset: 3.915 ms

Below is generated by plot.py at 2018-05-24 17:35:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.96 Mbit/s

95th percentile per-packet one-way delay: 61.125 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 29.36 Mbit/s

95th percentile per-packet one-way delay: 58.745 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 27.97 Mbit/s

95th percentile per-packet one-way delay: 61.734 ms

Loss rate: 0.17%

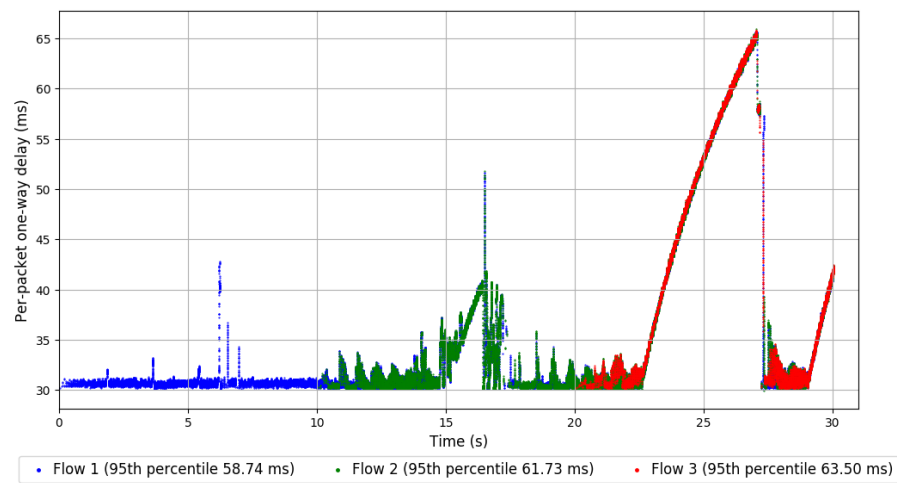
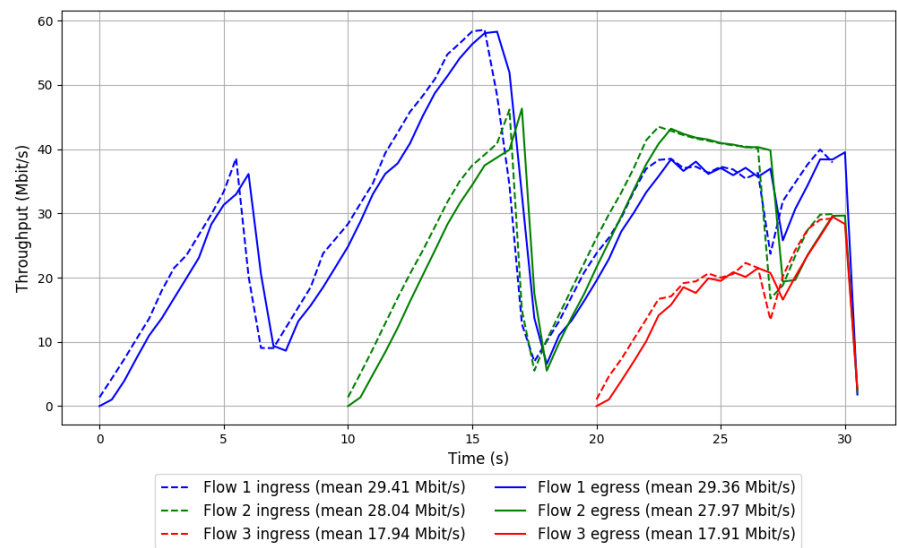
-- Flow 3:

Average throughput: 17.91 Mbit/s

95th percentile per-packet one-way delay: 63.499 ms

Loss rate: 0.07%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-24 14:52:35

End at: 2018-05-24 14:53:05

Local clock offset: -0.923 ms

Remote clock offset: 3.885 ms

Below is generated by plot.py at 2018-05-24 17:35:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.15 Mbit/s

95th percentile per-packet one-way delay: 62.655 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 29.84 Mbit/s

95th percentile per-packet one-way delay: 60.716 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 25.72 Mbit/s

95th percentile per-packet one-way delay: 63.608 ms

Loss rate: 0.32%

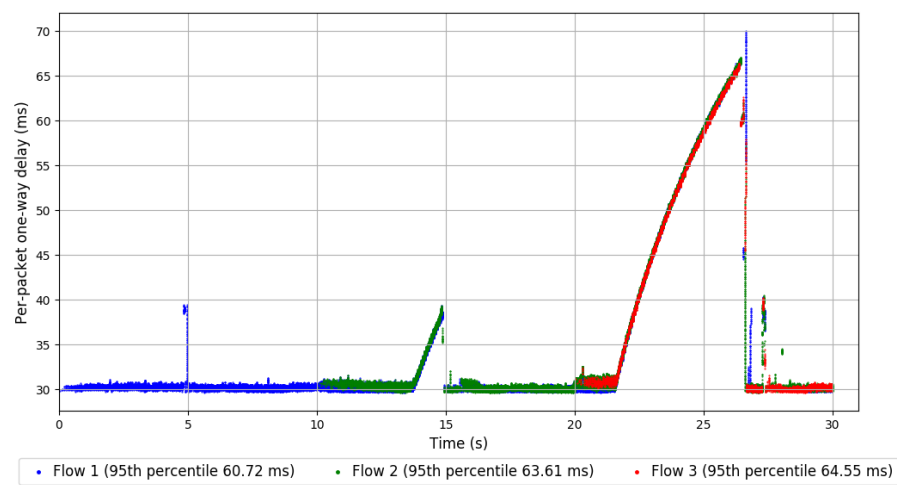
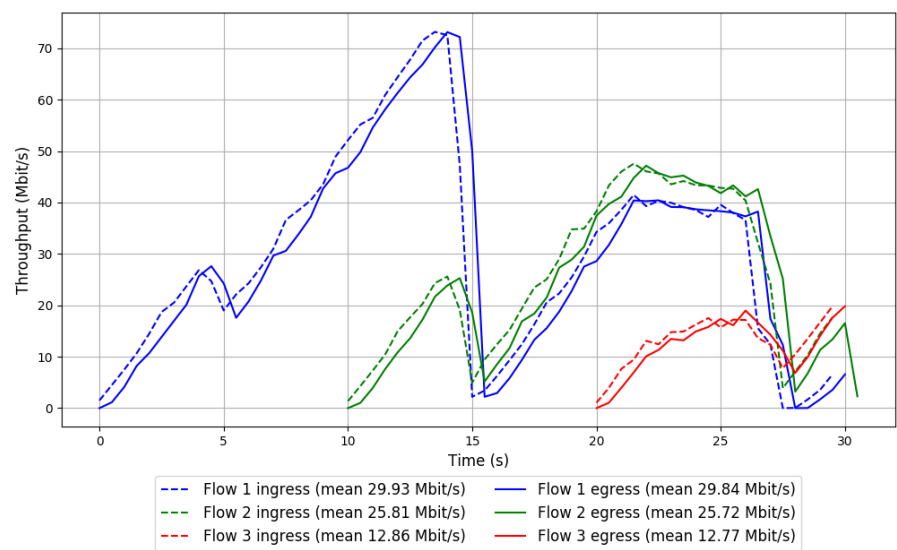
-- Flow 3:

Average throughput: 12.77 Mbit/s

95th percentile per-packet one-way delay: 64.554 ms

Loss rate: 0.70%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-24 15:13:53

End at: 2018-05-24 15:14:23

Local clock offset: 0.254 ms

Remote clock offset: 2.152 ms

Below is generated by plot.py at 2018-05-24 17:35:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.54 Mbit/s

95th percentile per-packet one-way delay: 62.507 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 36.99 Mbit/s

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

Loss rate: 0.23%

-- Flow 2:

Average throughput: 21.03 Mbit/s

95th percentile per-packet one-way delay: 63.998 ms

Loss rate: 0.40%

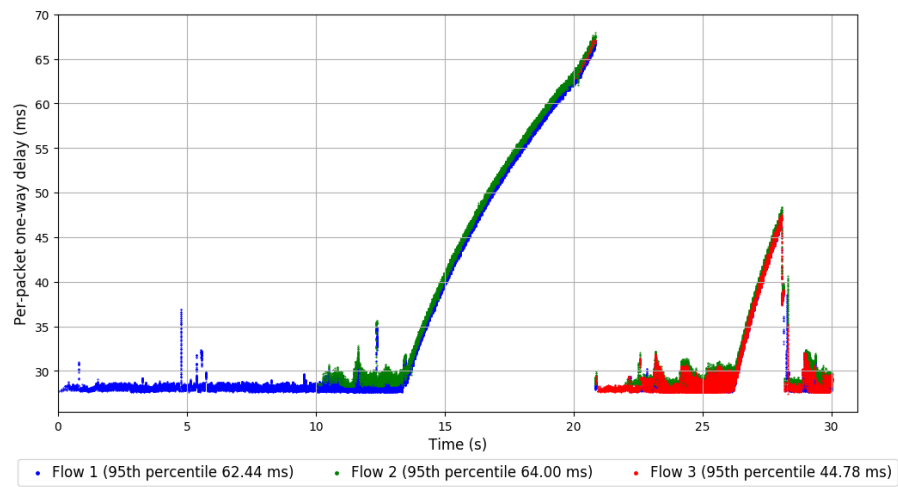
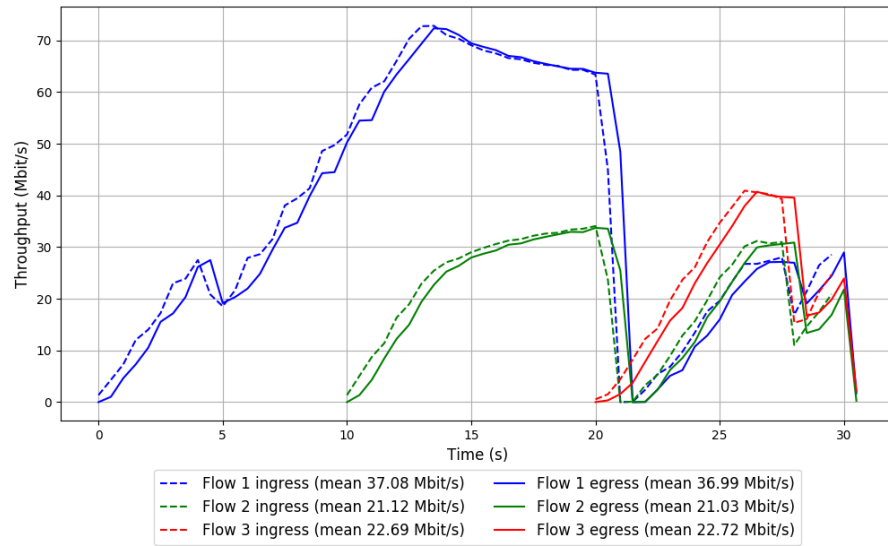
-- Flow 3:

Average throughput: 22.72 Mbit/s

95th percentile per-packet one-way delay: 44.778 ms

Loss rate: 0.19%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-24 15:35:10

End at: 2018-05-24 15:35:40

Local clock offset: 0.386 ms

Remote clock offset: 4.528 ms

Below is generated by plot.py at 2018-05-24 17:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.44 Mbit/s

95th percentile per-packet one-way delay: 54.184 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 37.43 Mbit/s

95th percentile per-packet one-way delay: 50.753 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 27.19 Mbit/s

95th percentile per-packet one-way delay: 54.847 ms

Loss rate: 0.11%

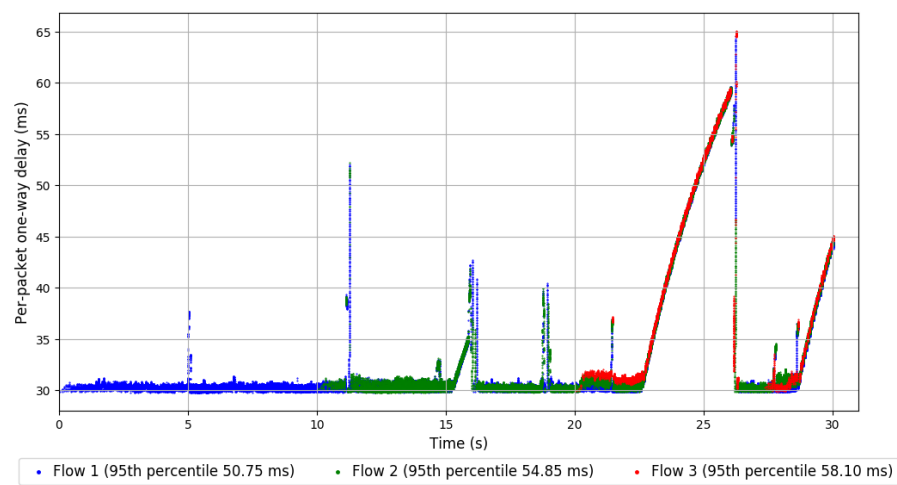
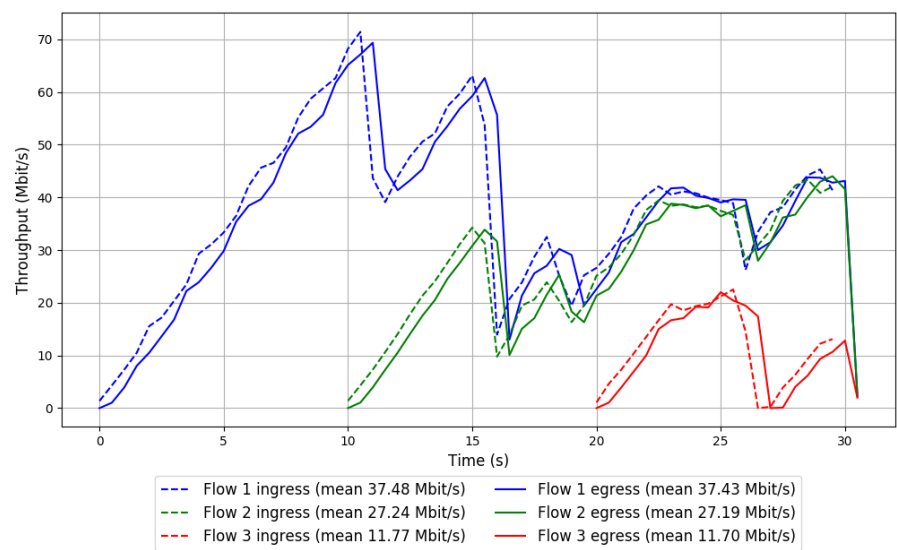
-- Flow 3:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 58.104 ms

Loss rate: 0.42%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-24 15:56:25

End at: 2018-05-24 15:56:55

Local clock offset: 0.359 ms

Remote clock offset: 3.864 ms

Below is generated by plot.py at 2018-05-24 17:35:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.10 Mbit/s

95th percentile per-packet one-way delay: 54.805 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 33.59 Mbit/s

95th percentile per-packet one-way delay: 46.923 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 25.00 Mbit/s

95th percentile per-packet one-way delay: 55.646 ms

Loss rate: 0.36%

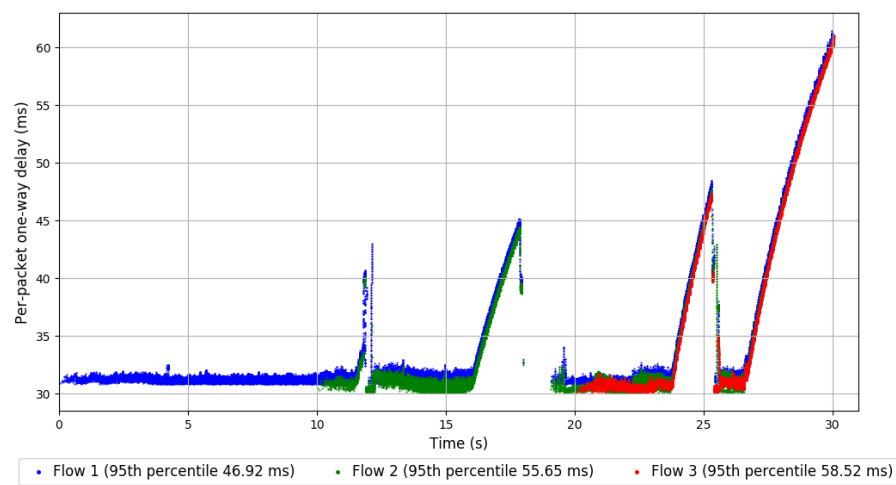
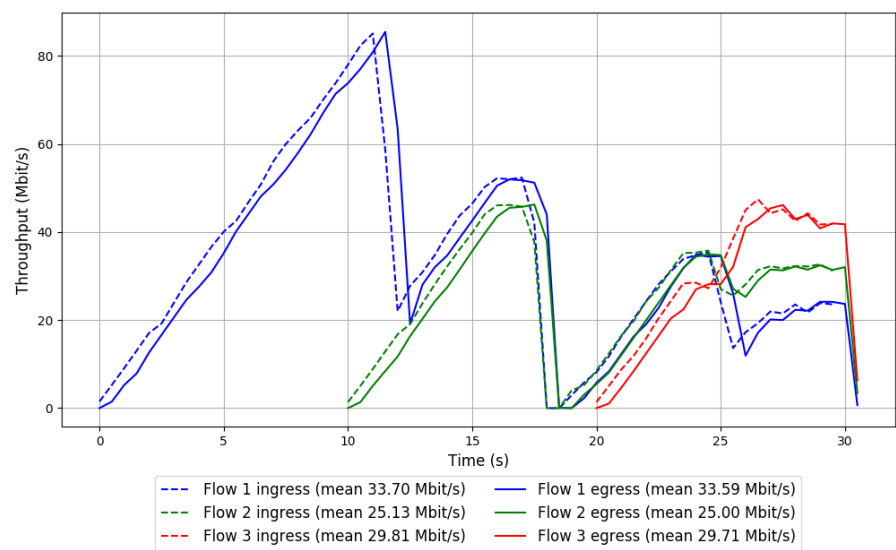
-- Flow 3:

Average throughput: 29.71 Mbit/s

95th percentile per-packet one-way delay: 58.518 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-24 16:17:41

End at: 2018-05-24 16:18:11

Local clock offset: -0.096 ms

Remote clock offset: 1.199 ms

Below is generated by plot.py at 2018-05-24 17:35:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.90 Mbit/s

95th percentile per-packet one-way delay: 52.121 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 38.38 Mbit/s

95th percentile per-packet one-way delay: 52.120 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 27.04 Mbit/s

95th percentile per-packet one-way delay: 52.521 ms

Loss rate: 0.11%

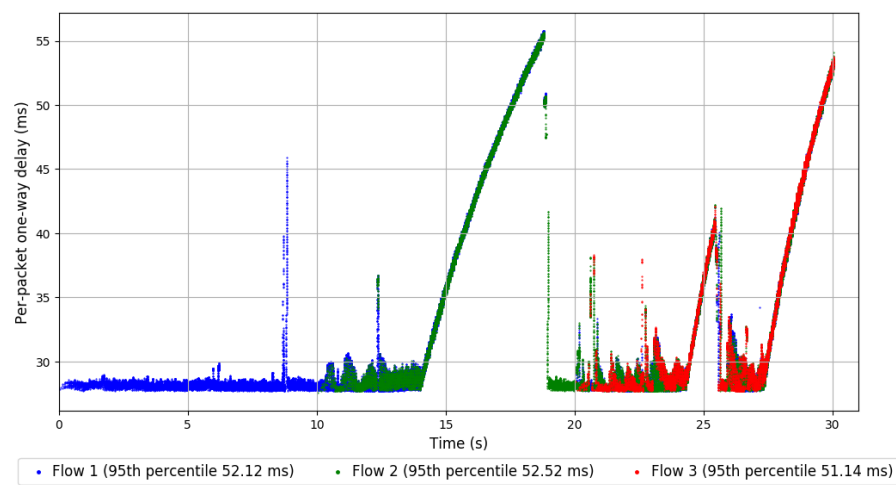
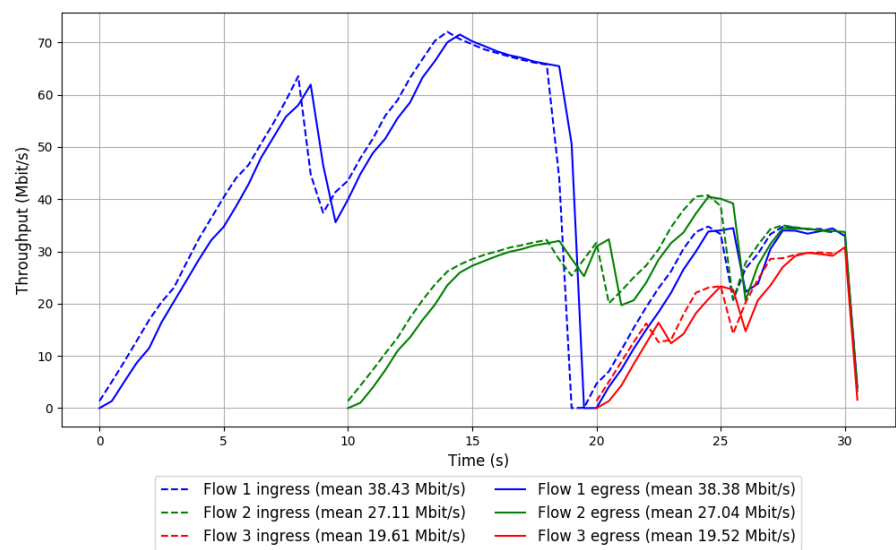
-- Flow 3:

Average throughput: 19.52 Mbit/s

95th percentile per-packet one-way delay: 51.138 ms

Loss rate: 0.21%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-24 16:38:55

End at: 2018-05-24 16:39:25

Local clock offset: 0.182 ms

Remote clock offset: 1.323 ms

Below is generated by plot.py at 2018-05-24 17:35:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.80 Mbit/s

95th percentile per-packet one-way delay: 62.808 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 36.23 Mbit/s

95th percentile per-packet one-way delay: 62.809 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 20.44 Mbit/s

95th percentile per-packet one-way delay: 63.783 ms

Loss rate: 0.35%

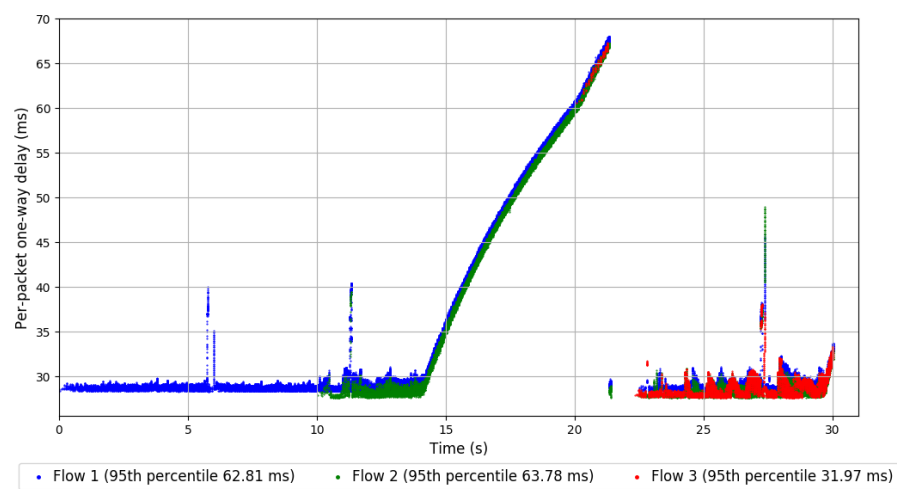
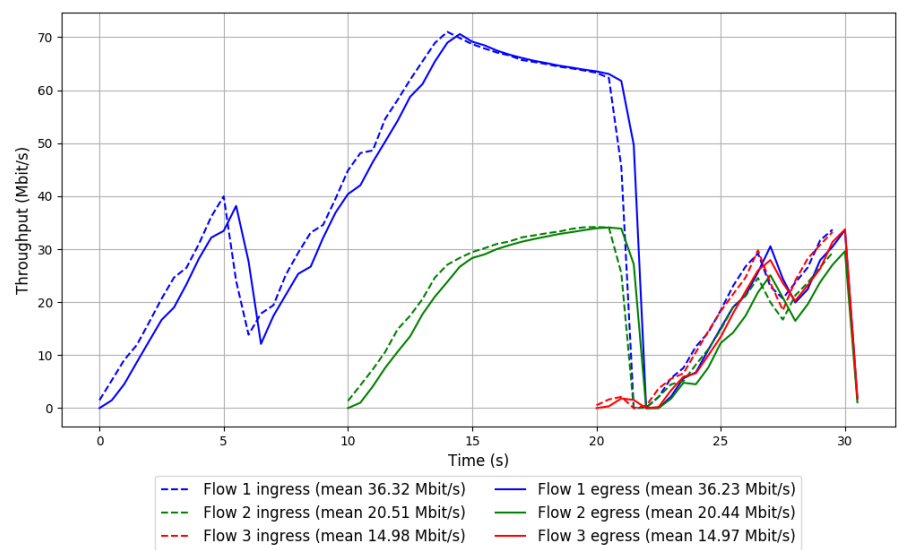
-- Flow 3:

Average throughput: 14.97 Mbit/s

95th percentile per-packet one-way delay: 31.968 ms

Loss rate: 0.28%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-24 17:00:10

End at: 2018-05-24 17:00:40

Local clock offset: 0.13 ms

Remote clock offset: 2.67 ms

Below is generated by plot.py at 2018-05-24 17:35:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.08 Mbit/s

95th percentile per-packet one-way delay: 65.773 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 27.57 Mbit/s

95th percentile per-packet one-way delay: 63.877 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 30.03 Mbit/s

95th percentile per-packet one-way delay: 65.546 ms

Loss rate: 0.36%

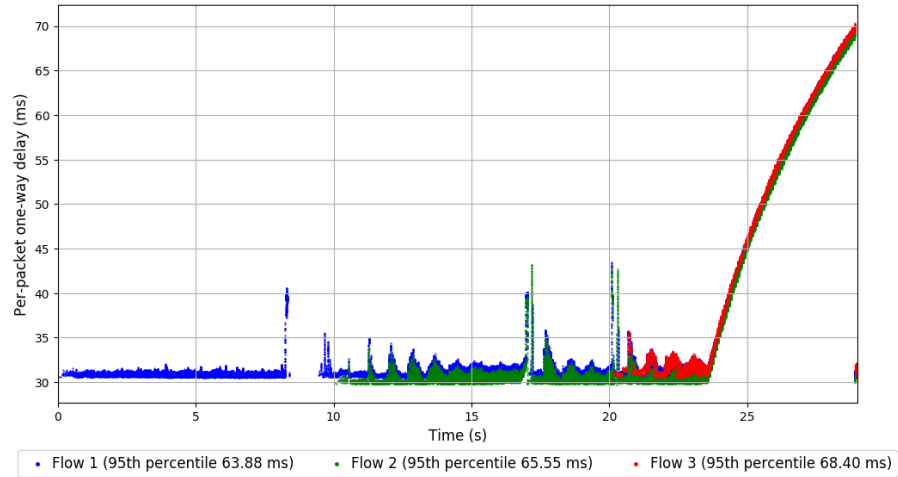
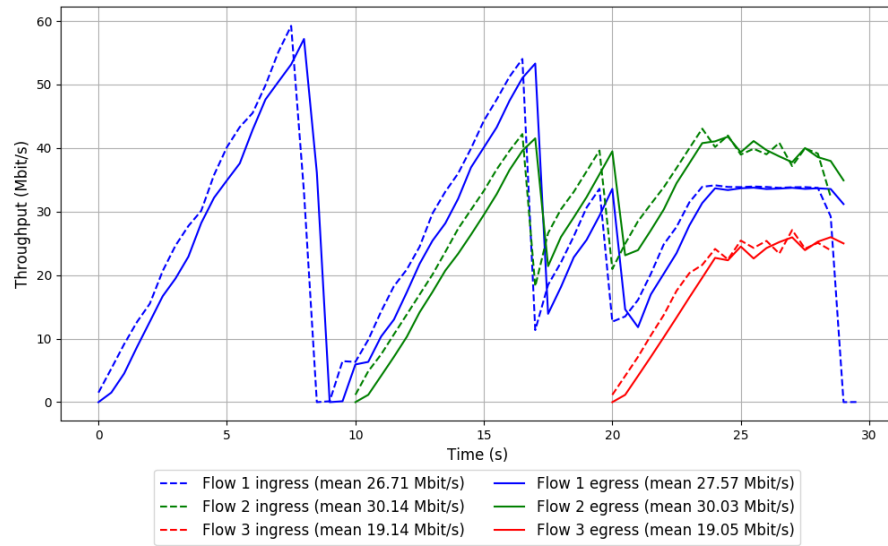
-- Flow 3:

Average throughput: 19.05 Mbit/s

95th percentile per-packet one-way delay: 68.401 ms

Loss rate: 0.49%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-24 17:21:27

End at: 2018-05-24 17:21:57

Local clock offset: 0.143 ms

Remote clock offset: 2.206 ms

Below is generated by plot.py at 2018-05-24 17:36:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.64 Mbit/s

95th percentile per-packet one-way delay: 65.482 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 40.06 Mbit/s

95th percentile per-packet one-way delay: 65.712 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 21.81 Mbit/s

95th percentile per-packet one-way delay: 66.372 ms

Loss rate: 0.33%

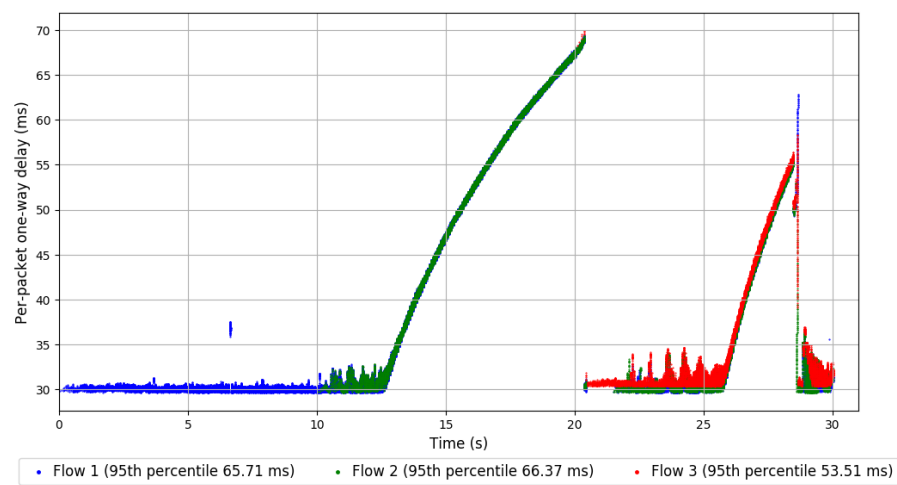
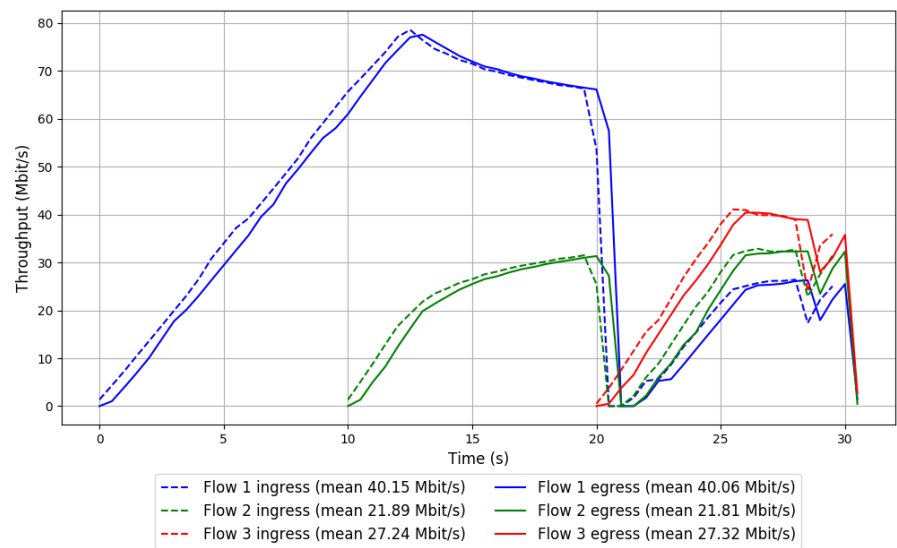
-- Flow 3:

Average throughput: 27.32 Mbit/s

95th percentile per-packet one-way delay: 53.509 ms

Loss rate: 0.07%

Run 10: Report of LEDBAT — Data Link

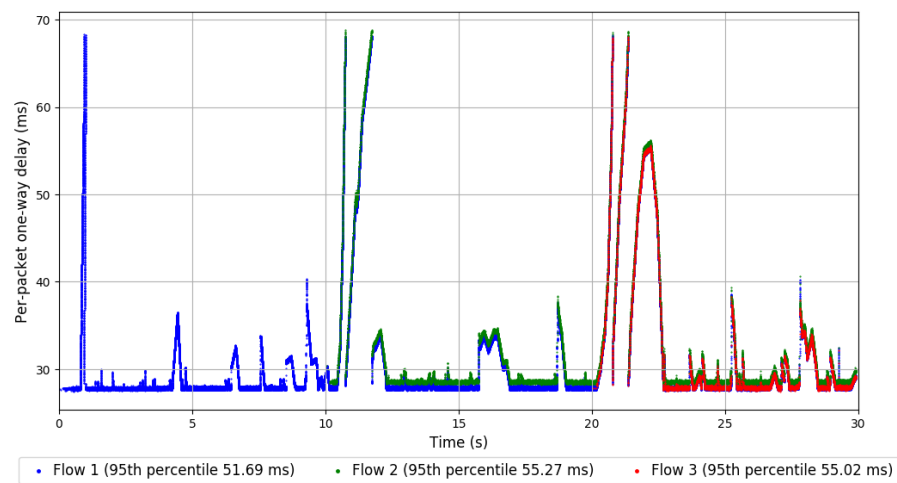
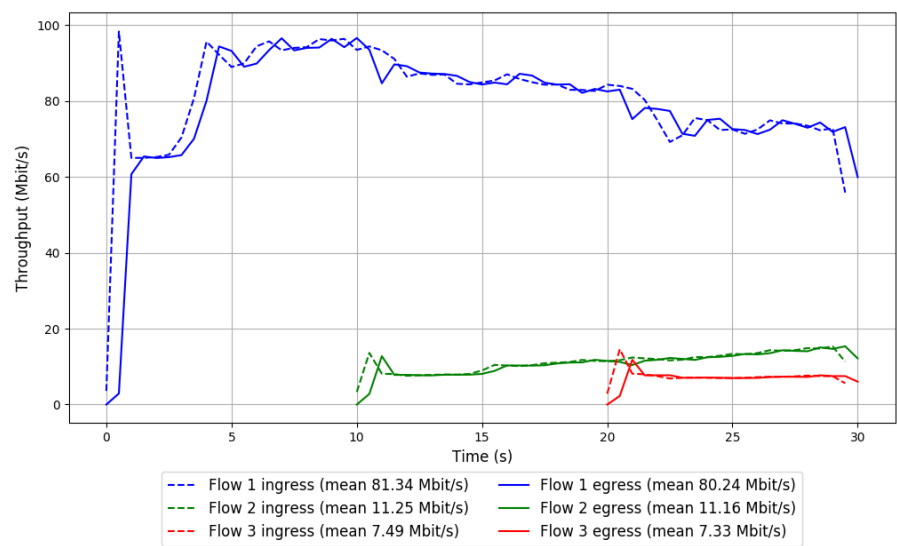


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-24 14:06:05
End at: 2018-05-24 14:06:35
Local clock offset: 0.452 ms
Remote clock offset: 1.012 ms

# Below is generated by plot.py at 2018-05-24 17:36:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.08 Mbit/s
95th percentile per-packet one-way delay: 52.495 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 80.24 Mbit/s
95th percentile per-packet one-way delay: 51.692 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 11.16 Mbit/s
95th percentile per-packet one-way delay: 55.275 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 7.33 Mbit/s
95th percentile per-packet one-way delay: 55.025 ms
Loss rate: 2.25%
```


Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-24 14:27:20

End at: 2018-05-24 14:27:50

Local clock offset: -0.44 ms

Remote clock offset: 1.182 ms

Below is generated by plot.py at 2018-05-24 17:36:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.81 Mbit/s

95th percentile per-packet one-way delay: 59.753 ms

Loss rate: 2.64%

-- Flow 1:

Average throughput: 79.76 Mbit/s

95th percentile per-packet one-way delay: 59.291 ms

Loss rate: 2.54%

-- Flow 2:

Average throughput: 8.24 Mbit/s

95th percentile per-packet one-way delay: 62.047 ms

Loss rate: 2.72%

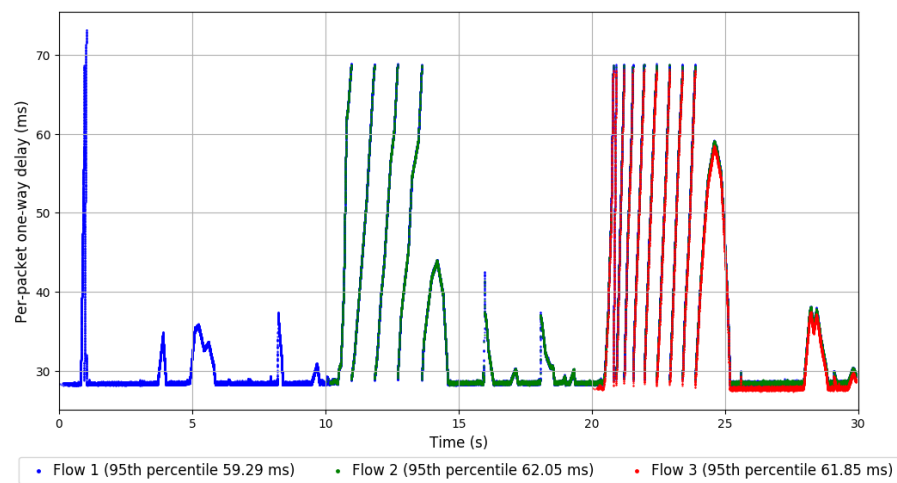
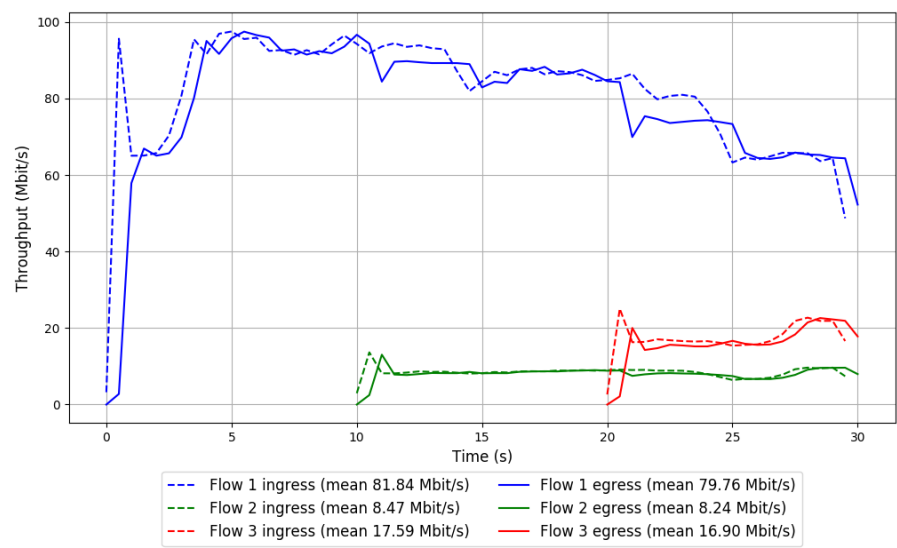
-- Flow 3:

Average throughput: 16.90 Mbit/s

95th percentile per-packet one-way delay: 61.848 ms

Loss rate: 3.89%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-24 14:48:37

End at: 2018-05-24 14:49:07

Local clock offset: -0.927 ms

Remote clock offset: 1.799 ms

Below is generated by plot.py at 2018-05-24 17:37:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.66 Mbit/s

95th percentile per-packet one-way delay: 64.575 ms

Loss rate: 6.18%

-- Flow 1:

Average throughput: 81.18 Mbit/s

95th percentile per-packet one-way delay: 64.147 ms

Loss rate: 5.54%

-- Flow 2:

Average throughput: 8.66 Mbit/s

95th percentile per-packet one-way delay: 65.237 ms

Loss rate: 7.88%

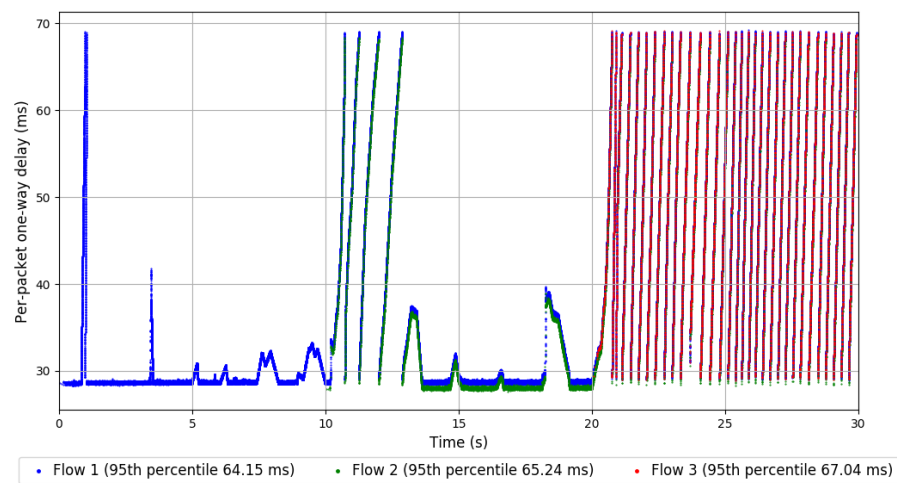
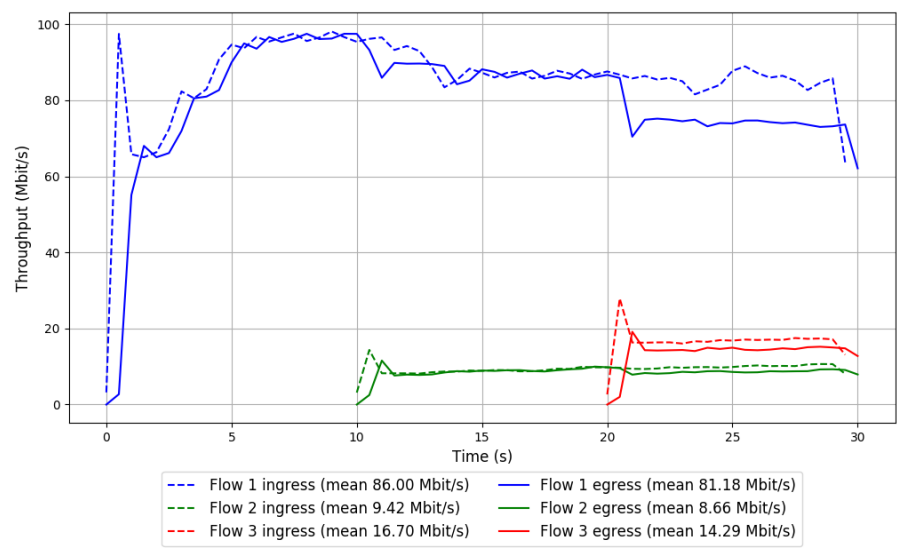
-- Flow 3:

Average throughput: 14.29 Mbit/s

95th percentile per-packet one-way delay: 67.044 ms

Loss rate: 14.32%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-24 15:09:53

End at: 2018-05-24 15:10:23

Local clock offset: 0.167 ms

Remote clock offset: 4.16 ms

Below is generated by plot.py at 2018-05-24 17:37:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.95 Mbit/s

95th percentile per-packet one-way delay: 56.175 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 78.56 Mbit/s

95th percentile per-packet one-way delay: 55.931 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 8.42 Mbit/s

95th percentile per-packet one-way delay: 60.315 ms

Loss rate: 1.77%

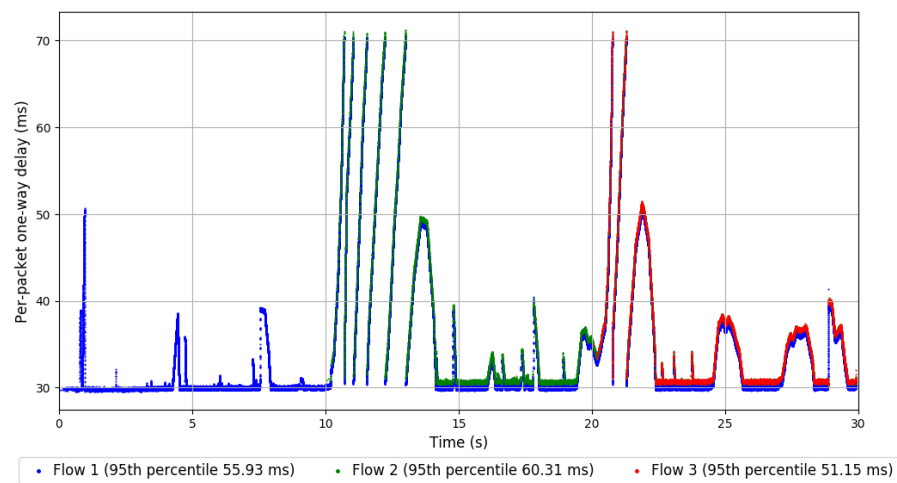
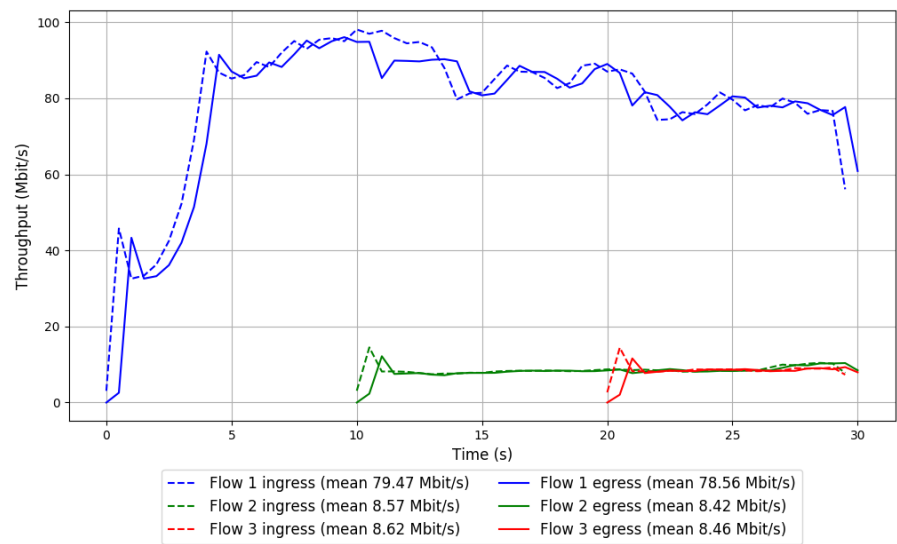
-- Flow 3:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 51.151 ms

Loss rate: 1.92%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-24 15:31:11

End at: 2018-05-24 15:31:41

Local clock offset: 0.385 ms

Remote clock offset: 2.349 ms

Below is generated by plot.py at 2018-05-24 17:37:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.27 Mbit/s

95th percentile per-packet one-way delay: 63.502 ms

Loss rate: 7.74%

-- Flow 1:

Average throughput: 79.38 Mbit/s

95th percentile per-packet one-way delay: 62.890 ms

Loss rate: 6.95%

-- Flow 2:

Average throughput: 8.42 Mbit/s

95th percentile per-packet one-way delay: 64.209 ms

Loss rate: 9.73%

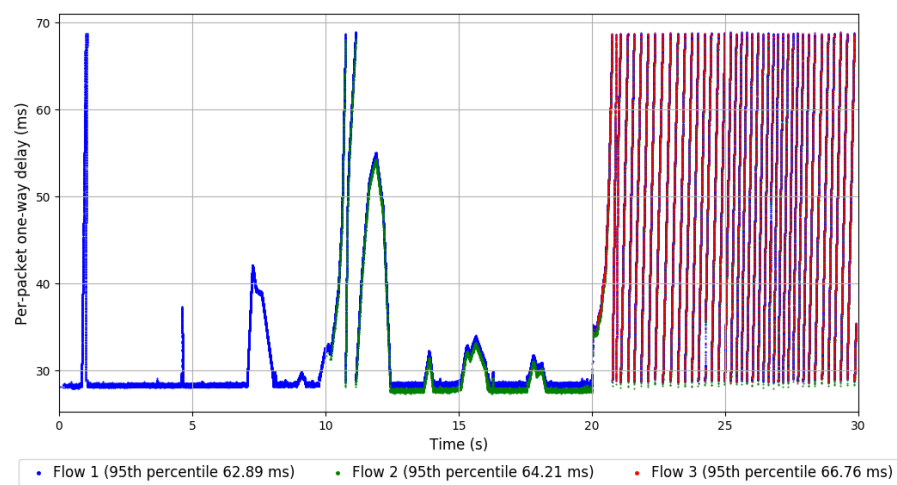
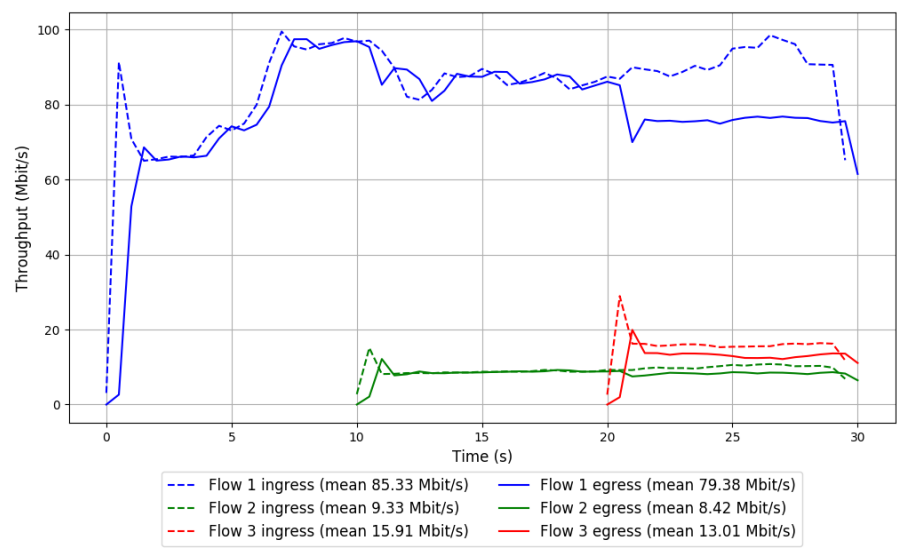
-- Flow 3:

Average throughput: 13.01 Mbit/s

95th percentile per-packet one-way delay: 66.758 ms

Loss rate: 18.26%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-24 15:52:26

End at: 2018-05-24 15:52:56

Local clock offset: 0.386 ms

Remote clock offset: 3.487 ms

Below is generated by plot.py at 2018-05-24 17:37:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.41 Mbit/s

95th percentile per-packet one-way delay: 63.973 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 75.52 Mbit/s

95th percentile per-packet one-way delay: 63.672 ms

Loss rate: 2.41%

-- Flow 2:

Average throughput: 17.65 Mbit/s

95th percentile per-packet one-way delay: 65.445 ms

Loss rate: 2.18%

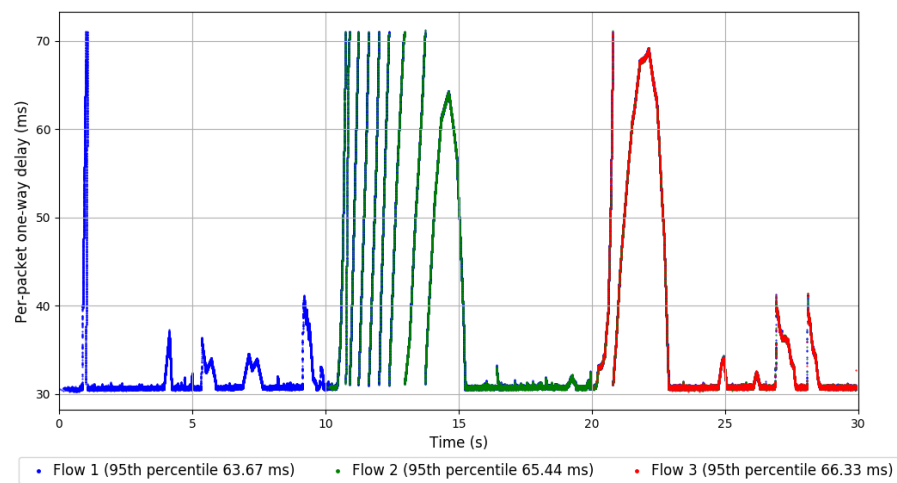
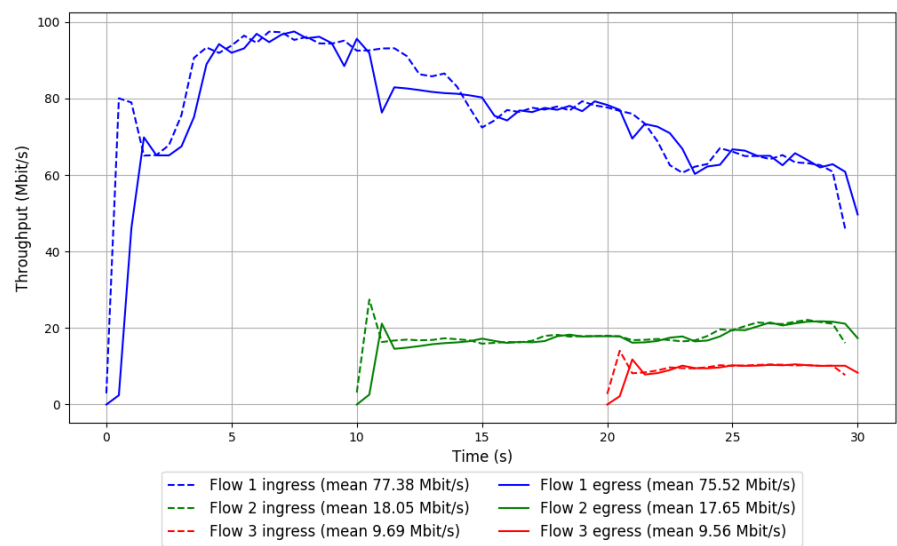
-- Flow 3:

Average throughput: 9.56 Mbit/s

95th percentile per-packet one-way delay: 66.329 ms

Loss rate: 1.28%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-24 16:13:42

End at: 2018-05-24 16:14:12

Local clock offset: 0.042 ms

Remote clock offset: 1.232 ms

Below is generated by plot.py at 2018-05-24 17:37:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.52 Mbit/s

95th percentile per-packet one-way delay: 54.261 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 83.30 Mbit/s

95th percentile per-packet one-way delay: 53.906 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 9.90 Mbit/s

95th percentile per-packet one-way delay: 56.728 ms

Loss rate: 1.28%

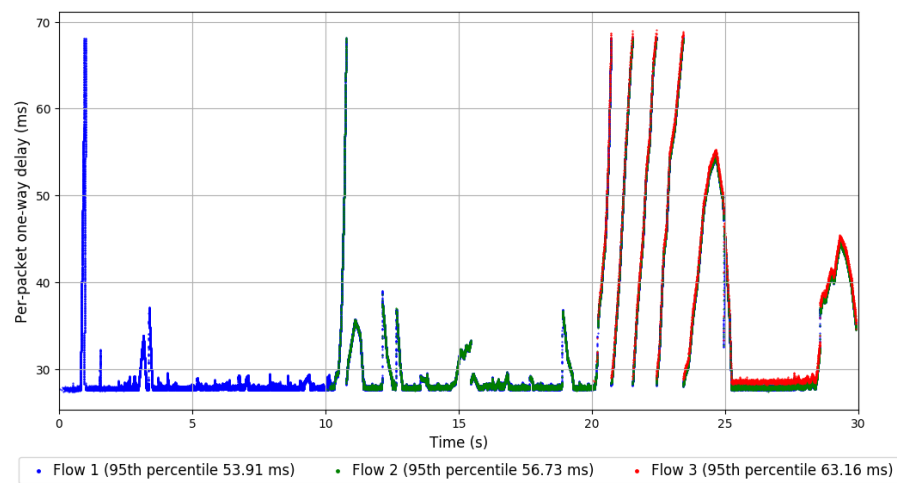
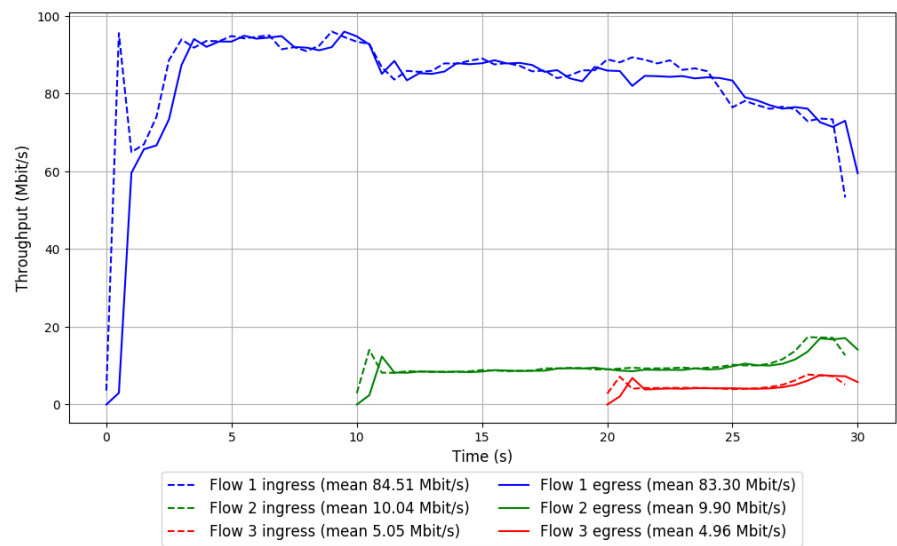
-- Flow 3:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 63.158 ms

Loss rate: 1.75%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-24 16:34:57

End at: 2018-05-24 16:35:27

Local clock offset: 0.174 ms

Remote clock offset: 3.71 ms

Below is generated by plot.py at 2018-05-24 17:37:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.90 Mbit/s

95th percentile per-packet one-way delay: 60.033 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 77.12 Mbit/s

95th percentile per-packet one-way delay: 59.846 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 10.35 Mbit/s

95th percentile per-packet one-way delay: 60.929 ms

Loss rate: 0.36%

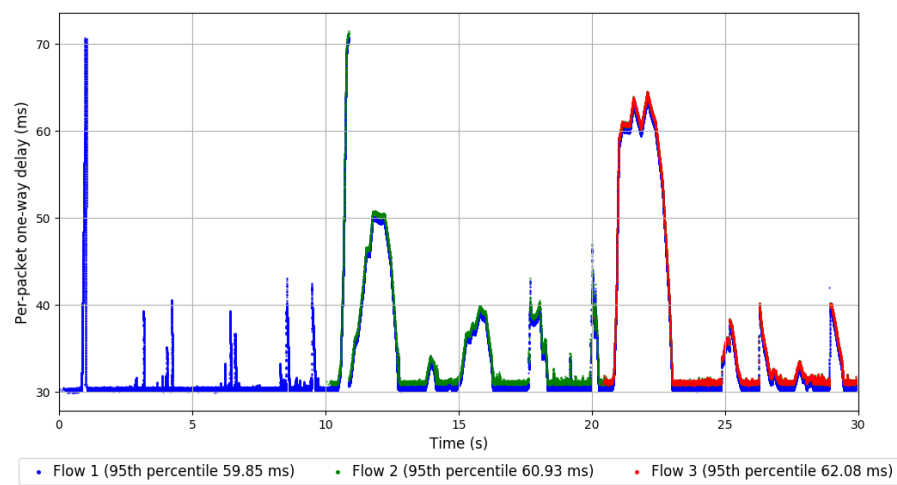
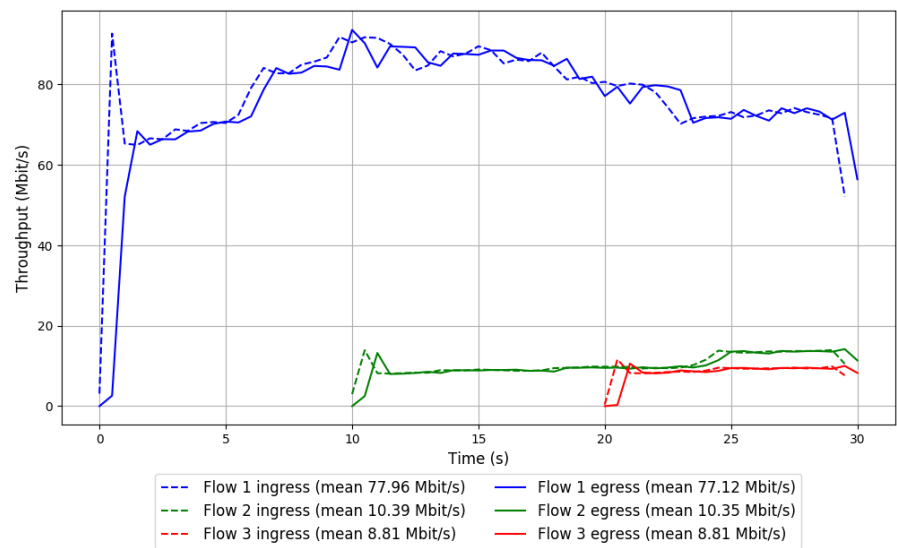
-- Flow 3:

Average throughput: 8.81 Mbit/s

95th percentile per-packet one-way delay: 62.082 ms

Loss rate: 0.06%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-24 16:56:10

End at: 2018-05-24 16:56:40

Local clock offset: 0.165 ms

Remote clock offset: 2.657 ms

Below is generated by plot.py at 2018-05-24 17:37:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.74 Mbit/s

95th percentile per-packet one-way delay: 57.152 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 86.09 Mbit/s

95th percentile per-packet one-way delay: 57.010 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 59.806 ms

Loss rate: 0.17%

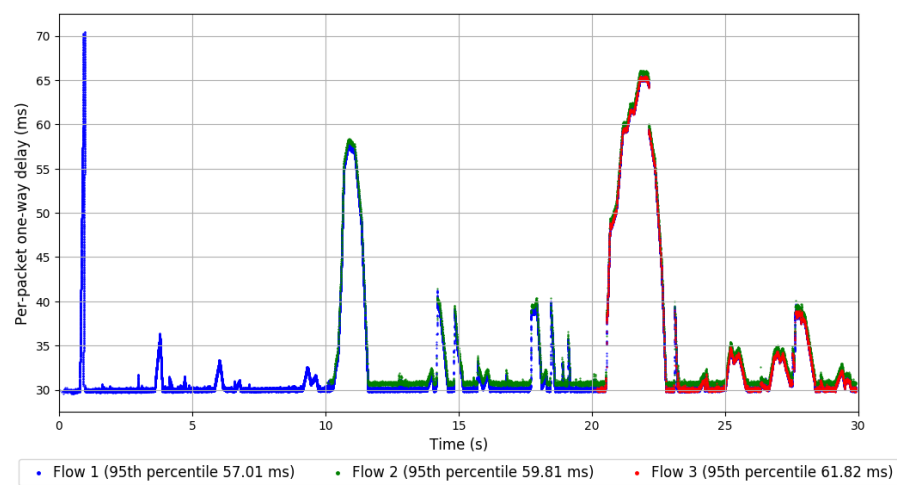
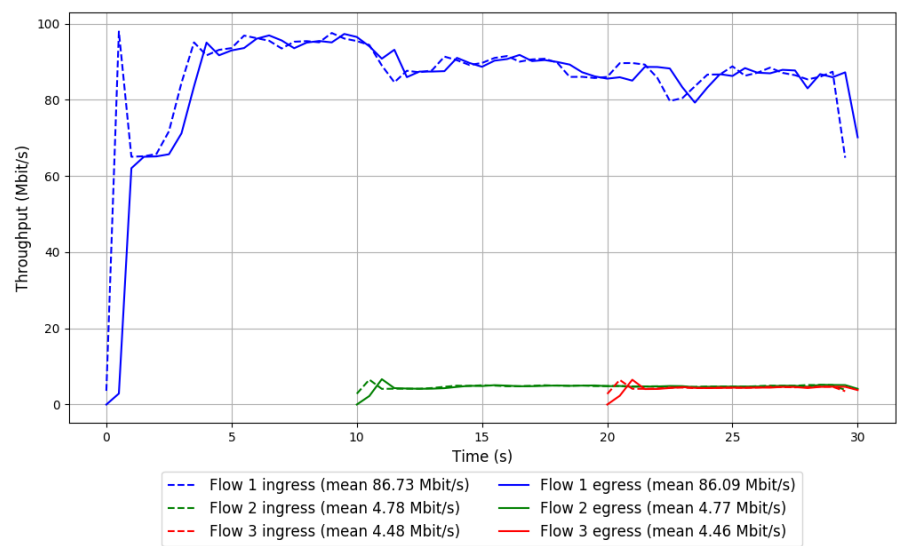
-- Flow 3:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 61.824 ms

Loss rate: 0.27%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-24 17:17:28

End at: 2018-05-24 17:17:58

Local clock offset: 0.132 ms

Remote clock offset: 0.441 ms

Below is generated by plot.py at 2018-05-24 17:37:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.98 Mbit/s

95th percentile per-packet one-way delay: 59.576 ms

Loss rate: 2.53%

-- Flow 1:

Average throughput: 74.42 Mbit/s

95th percentile per-packet one-way delay: 59.570 ms

Loss rate: 2.58%

-- Flow 2:

Average throughput: 20.91 Mbit/s

95th percentile per-packet one-way delay: 59.837 ms

Loss rate: 2.37%

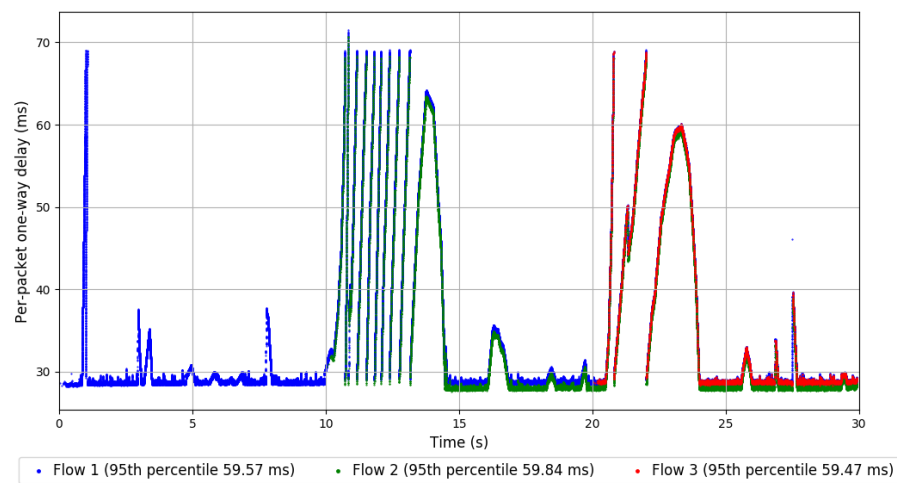
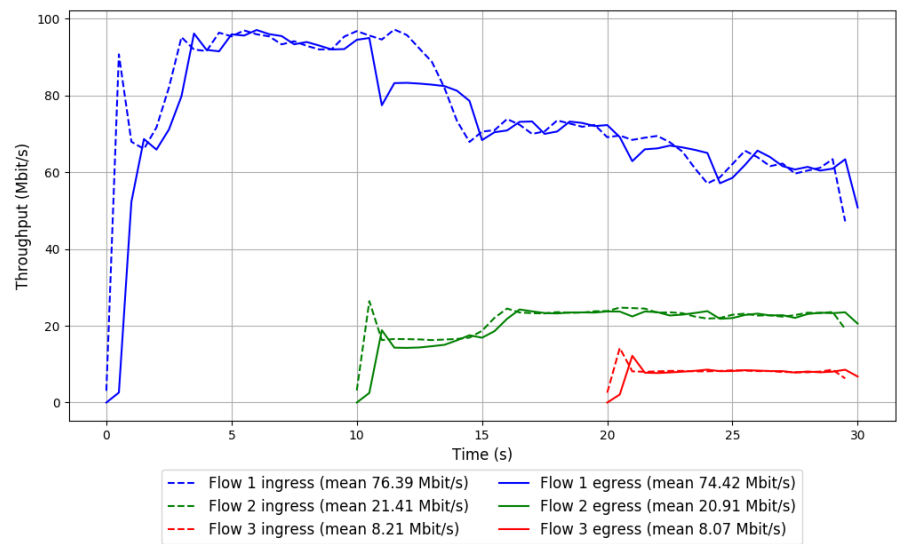
-- Flow 3:

Average throughput: 8.07 Mbit/s

95th percentile per-packet one-way delay: 59.471 ms

Loss rate: 1.68%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

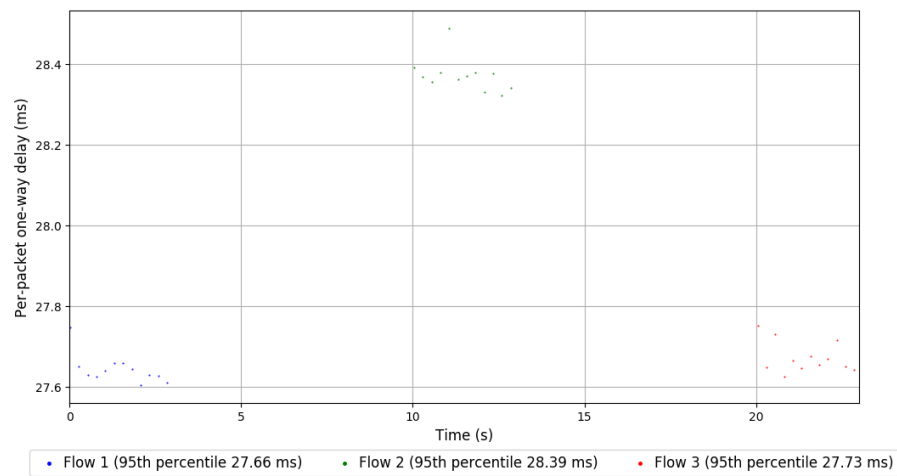
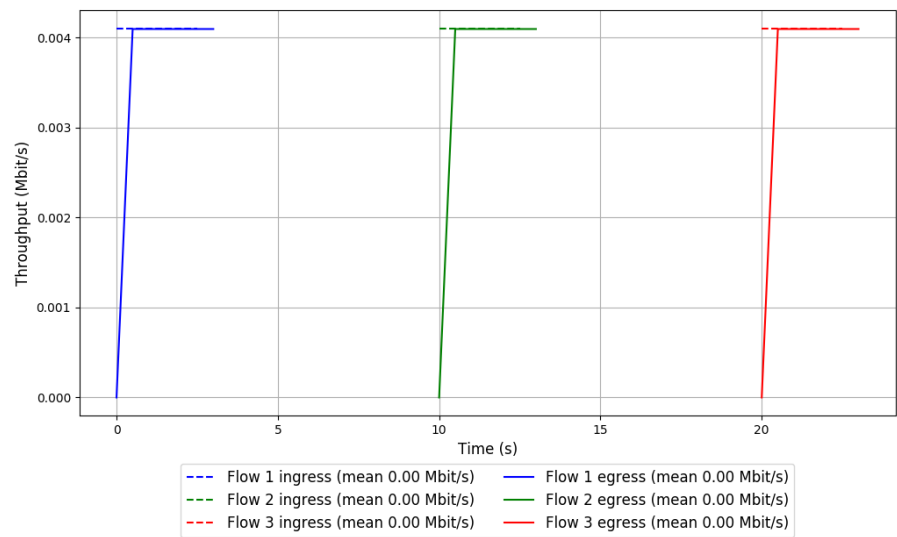
Start at: 2018-05-24 13:51:28

End at: 2018-05-24 13:51:58

Local clock offset: 1.801 ms

Remote clock offset: 1.005 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

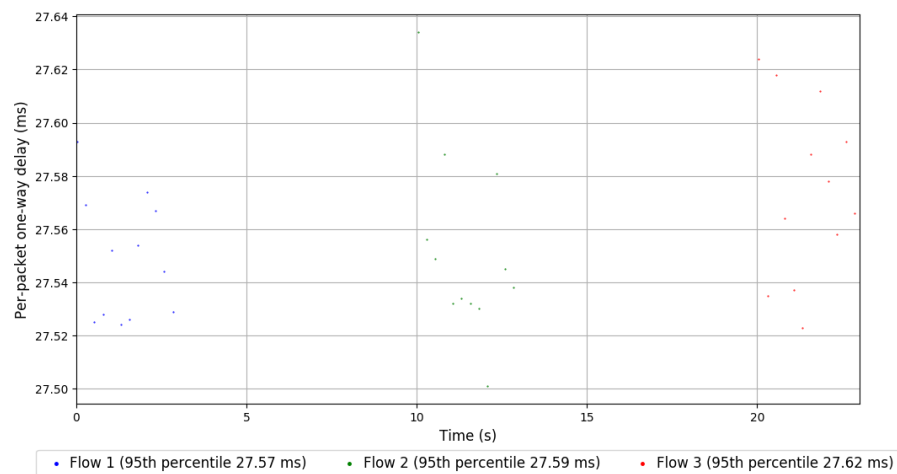
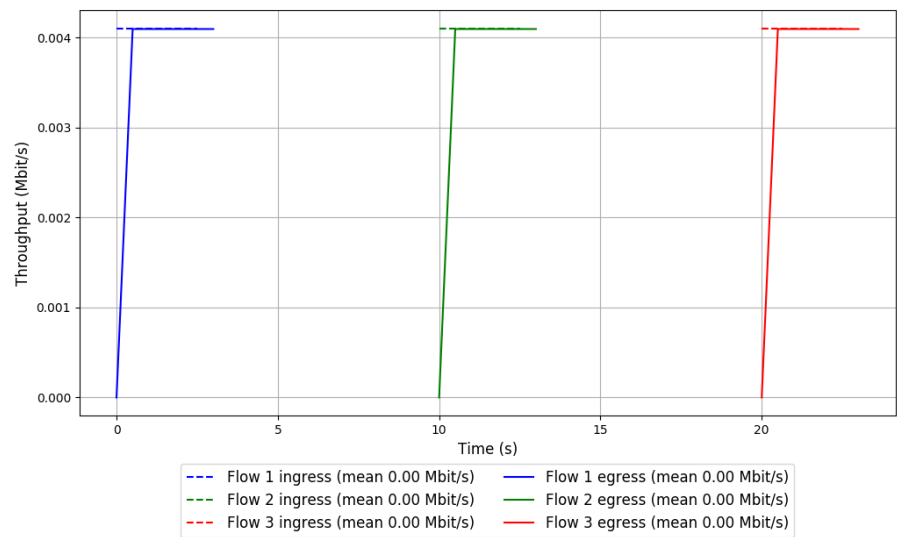
Start at: 2018-05-24 14:12:44

End at: 2018-05-24 14:13:14

Local clock offset: 0.054 ms

Remote clock offset: 1.018 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

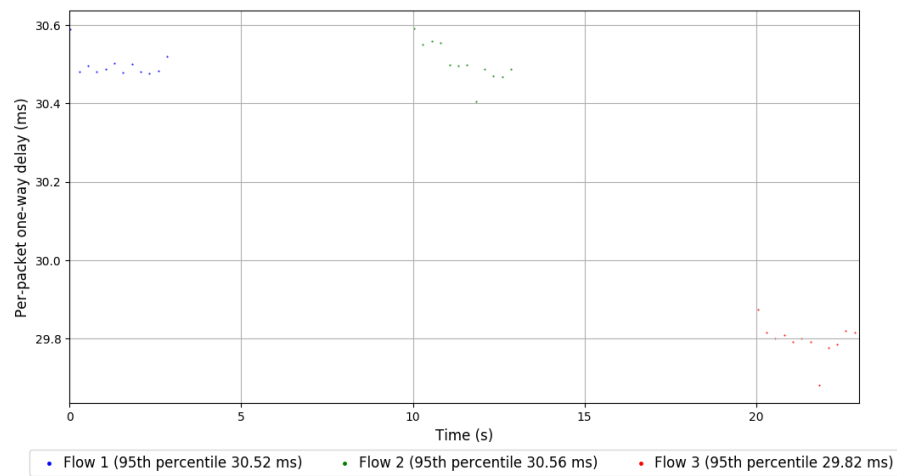
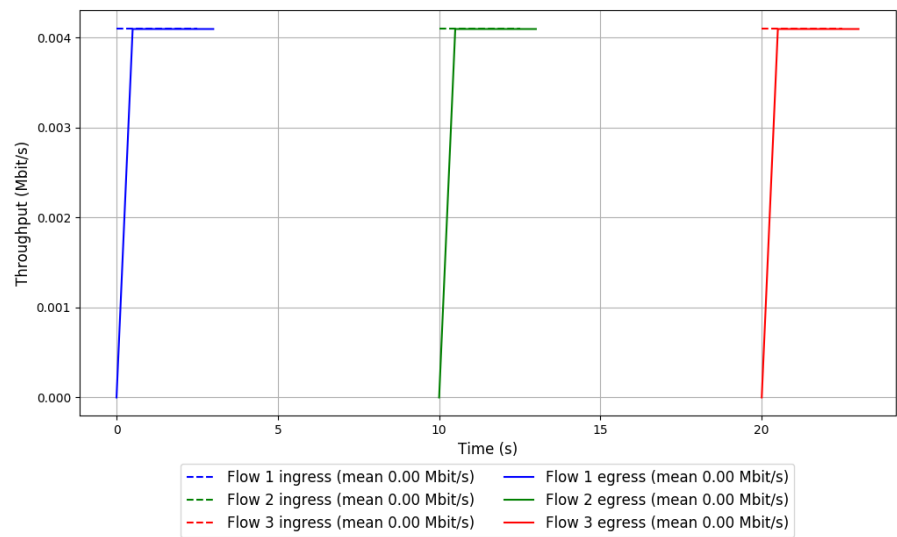
Start at: 2018-05-24 14:34:00

End at: 2018-05-24 14:34:30

Local clock offset: -0.604 ms

Remote clock offset: 3.548 ms

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

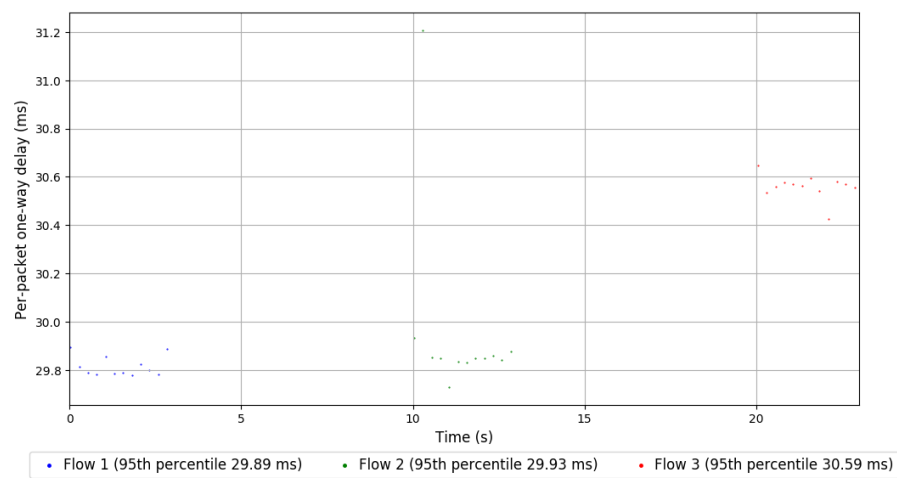
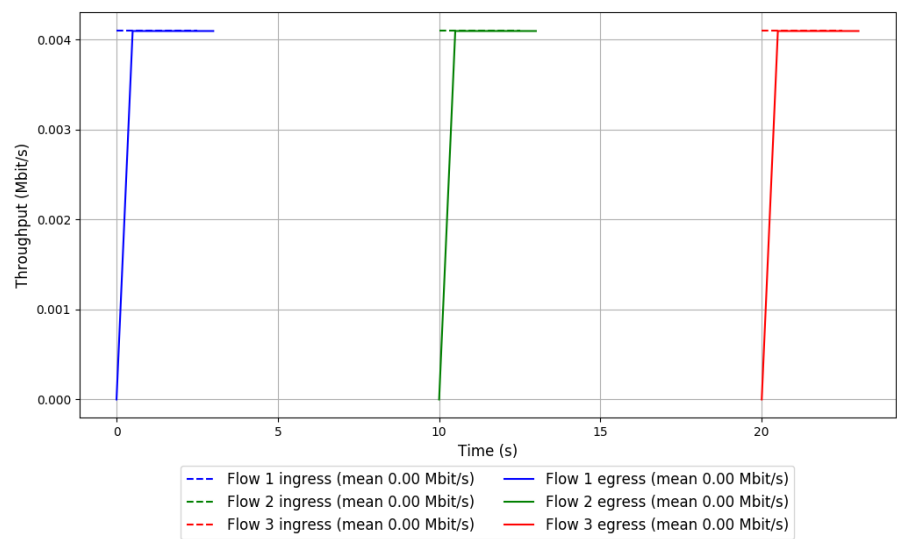
Start at: 2018-05-24 14:55:16

End at: 2018-05-24 14:55:46

Local clock offset: -0.963 ms

Remote clock offset: 4.034 ms

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

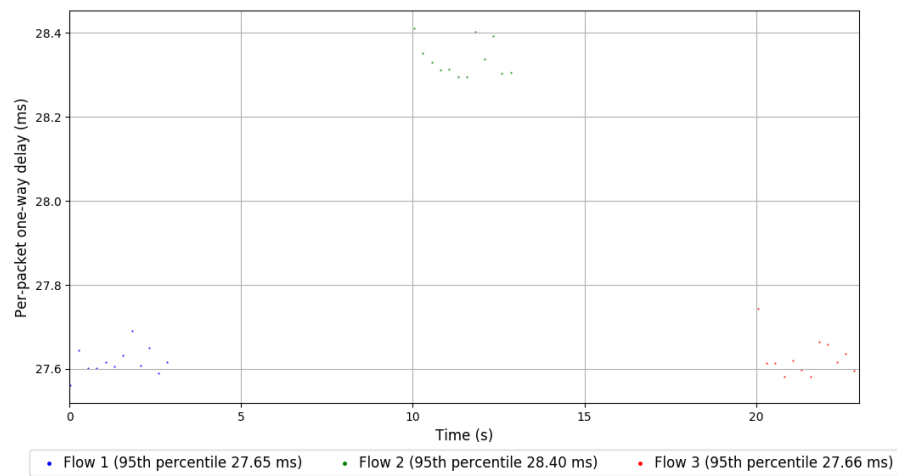
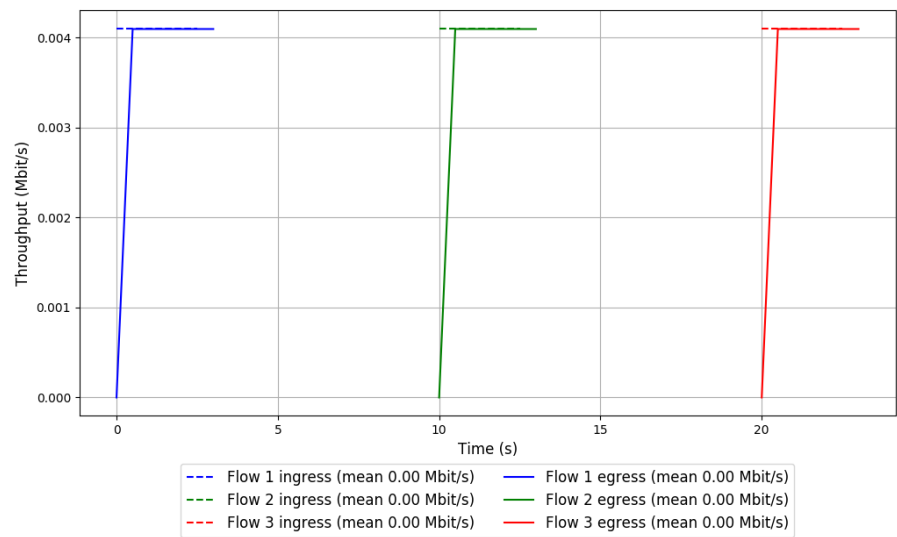
Start at: 2018-05-24 15:16:33

End at: 2018-05-24 15:17:03

Local clock offset: 0.197 ms

Remote clock offset: 2.083 ms

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

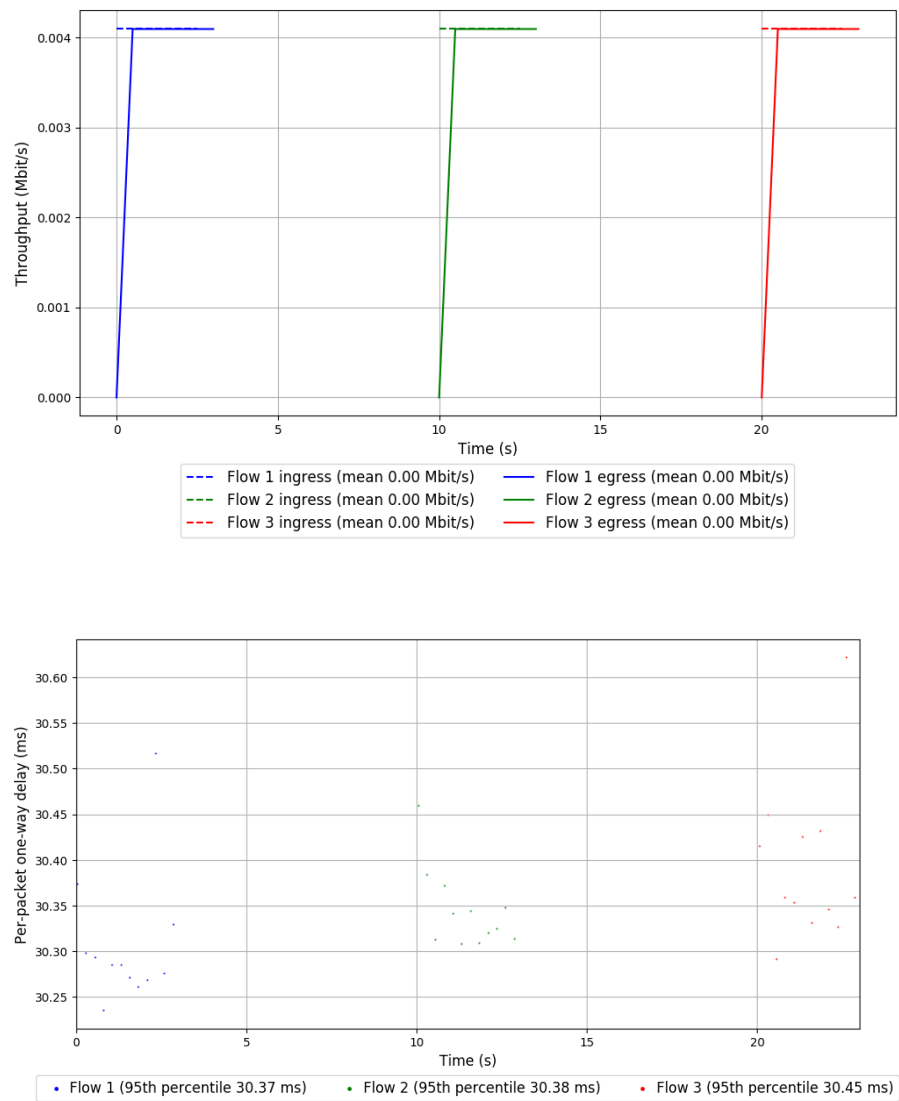
Start at: 2018-05-24 15:37:50

End at: 2018-05-24 15:38:20

Local clock offset: 0.306 ms

Remote clock offset: 4.582 ms

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

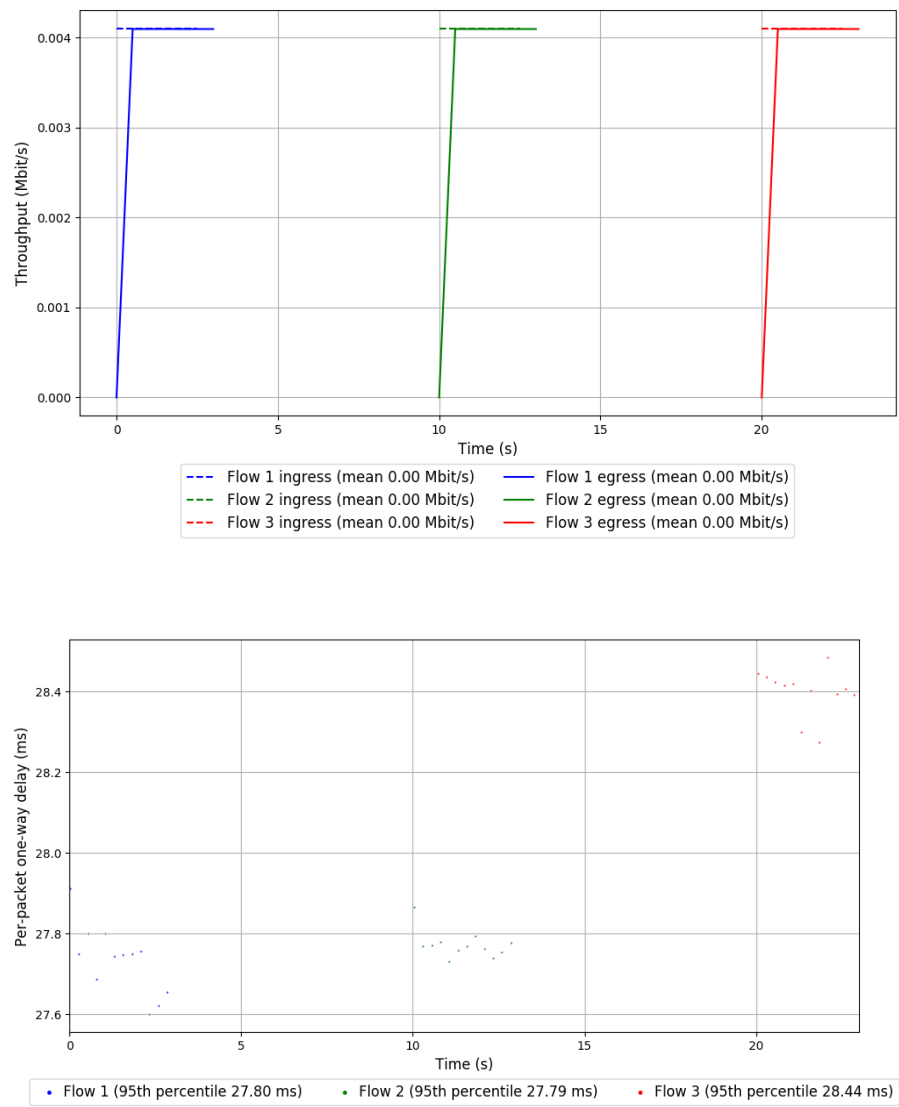
Start at: 2018-05-24 15:59:06

End at: 2018-05-24 15:59:36

Local clock offset: 0.193 ms

Remote clock offset: 1.427 ms

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

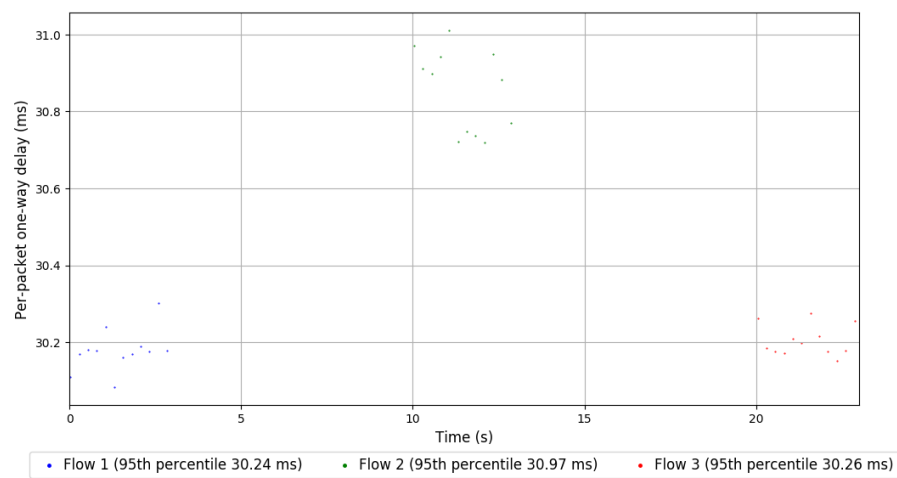
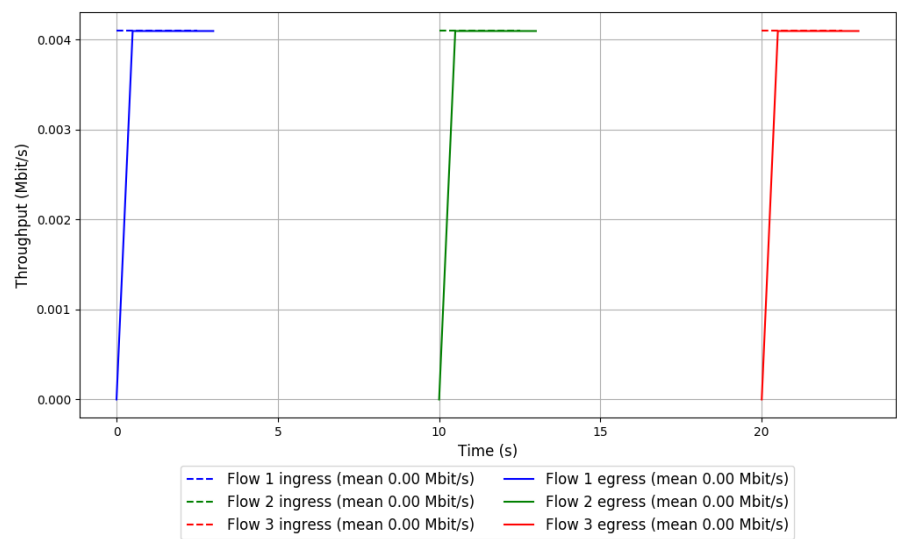
Start at: 2018-05-24 16:20:21

End at: 2018-05-24 16:20:51

Local clock offset: -0.027 ms

Remote clock offset: 3.719 ms

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

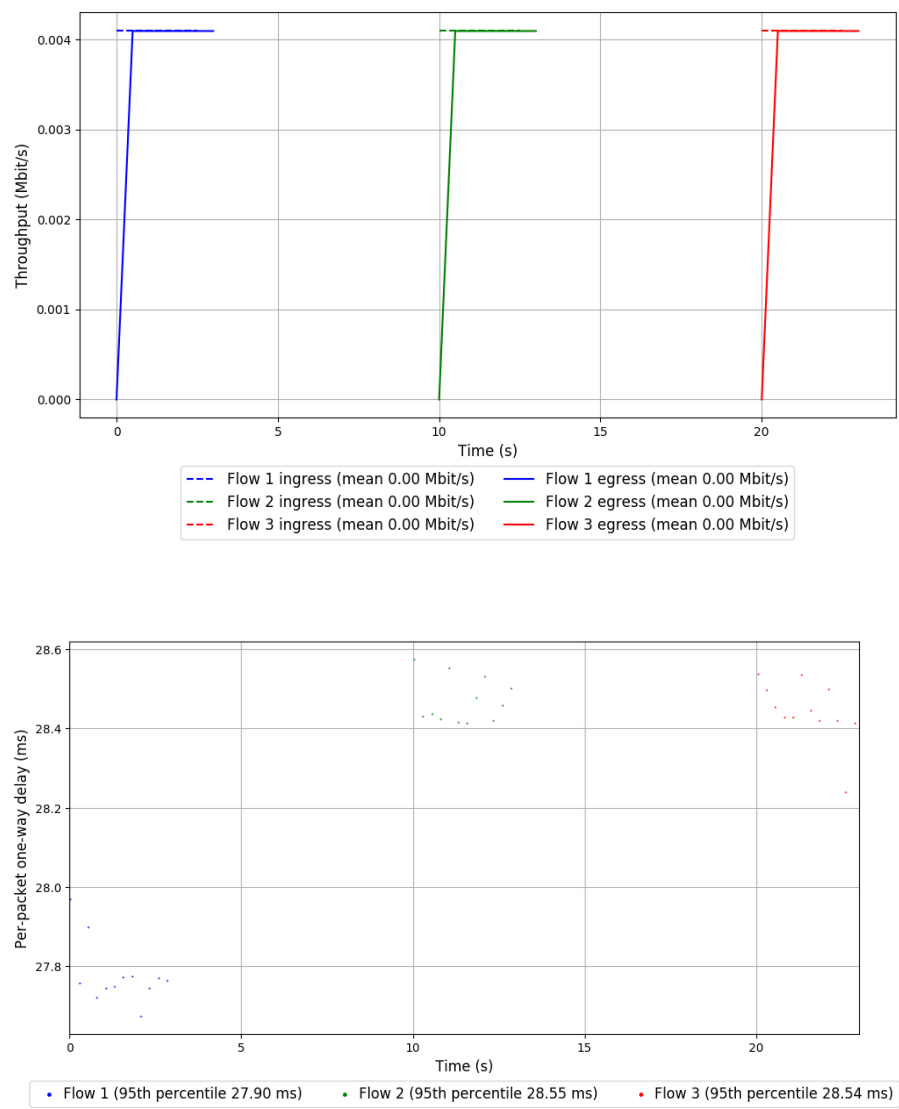
Start at: 2018-05-24 16:41:35

End at: 2018-05-24 16:42:05

Local clock offset: 0.111 ms

Remote clock offset: 1.365 ms

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

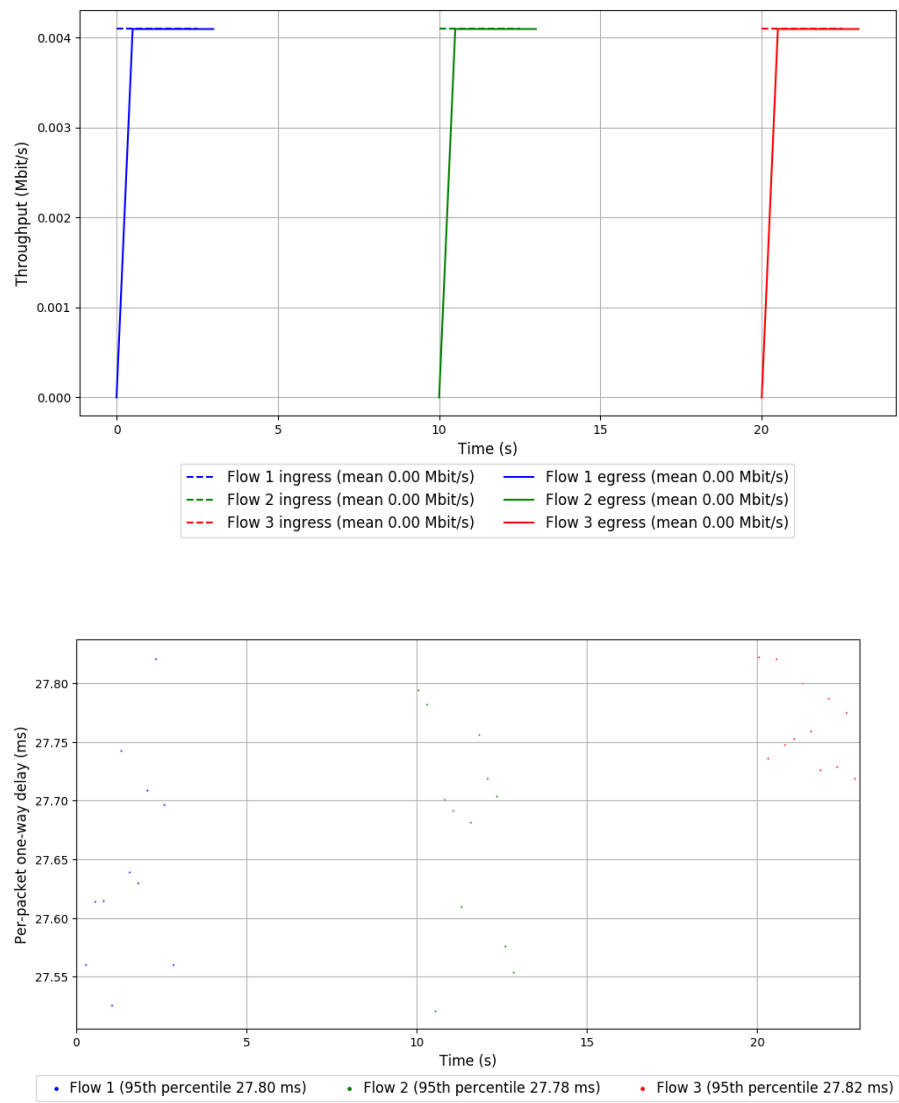
Start at: 2018-05-24 17:02:50

End at: 2018-05-24 17:03:20

Local clock offset: 0.104 ms

Remote clock offset: 0.499 ms

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-24 14:03:28

End at: 2018-05-24 14:03:58

Local clock offset: 0.687 ms

Remote clock offset: 0.884 ms

Below is generated by plot.py at 2018-05-24 17:38:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.18 Mbit/s

95th percentile per-packet one-way delay: 62.920 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 64.63 Mbit/s

95th percentile per-packet one-way delay: 62.893 ms

Loss rate: 1.91%

-- Flow 2:

Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: 63.128 ms

Loss rate: 0.90%

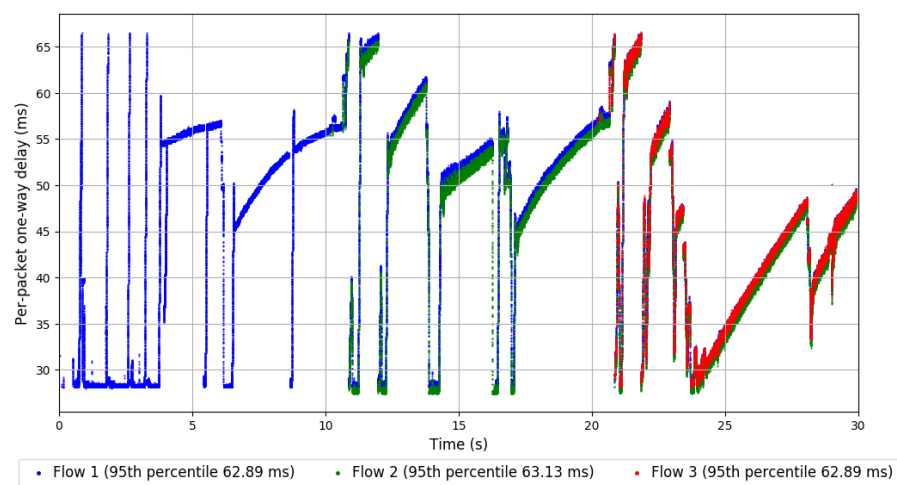
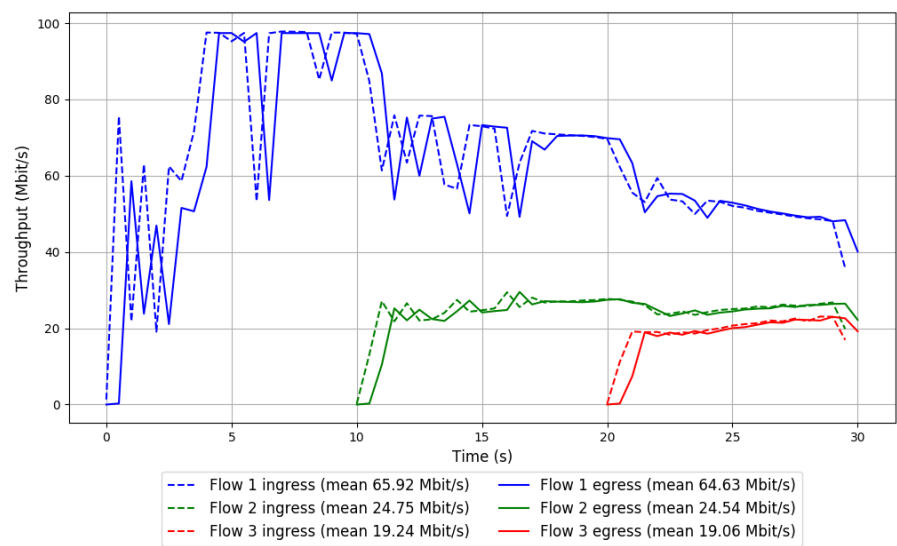
-- Flow 3:

Average throughput: 19.06 Mbit/s

95th percentile per-packet one-way delay: 62.892 ms

Loss rate: 1.03%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-24 14:24:44

End at: 2018-05-24 14:25:14

Local clock offset: -0.395 ms

Remote clock offset: 3.7 ms

Below is generated by plot.py at 2018-05-24 17:38:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.89 Mbit/s

95th percentile per-packet one-way delay: 62.342 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 60.81 Mbit/s

95th percentile per-packet one-way delay: 60.123 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 23.48 Mbit/s

95th percentile per-packet one-way delay: 63.144 ms

Loss rate: 0.58%

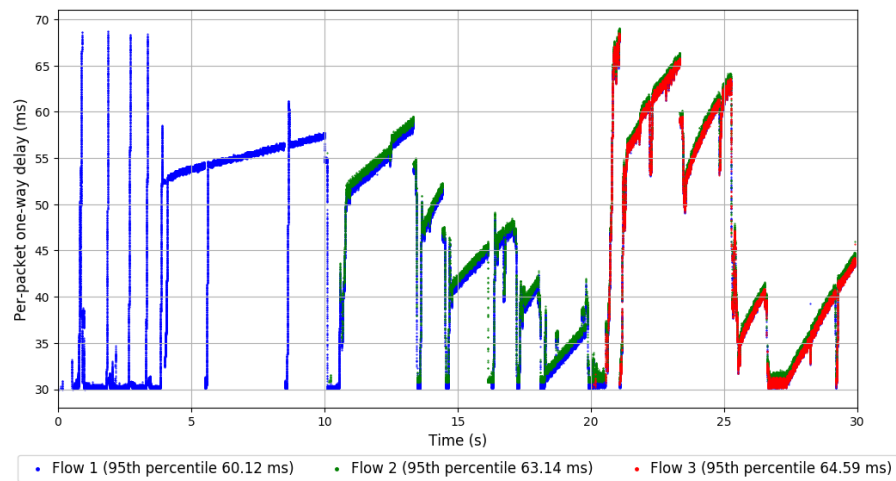
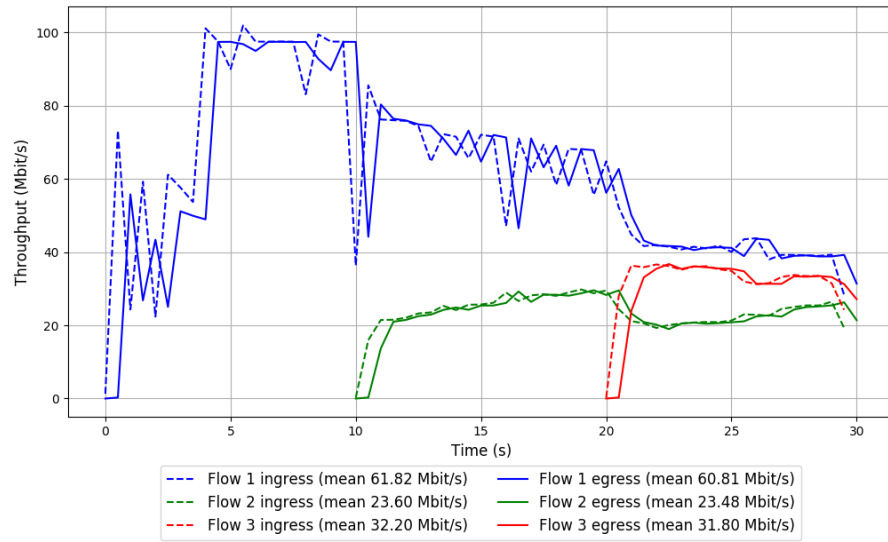
-- Flow 3:

Average throughput: 31.80 Mbit/s

95th percentile per-packet one-way delay: 64.594 ms

Loss rate: 1.09%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-24 14:46:00

End at: 2018-05-24 14:46:30

Local clock offset: -0.848 ms

Remote clock offset: 3.773 ms

Below is generated by plot.py at 2018-05-24 17:38:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.47 Mbit/s

95th percentile per-packet one-way delay: 62.773 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 59.30 Mbit/s

95th percentile per-packet one-way delay: 60.641 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 26.62 Mbit/s

95th percentile per-packet one-way delay: 63.997 ms

Loss rate: 0.56%

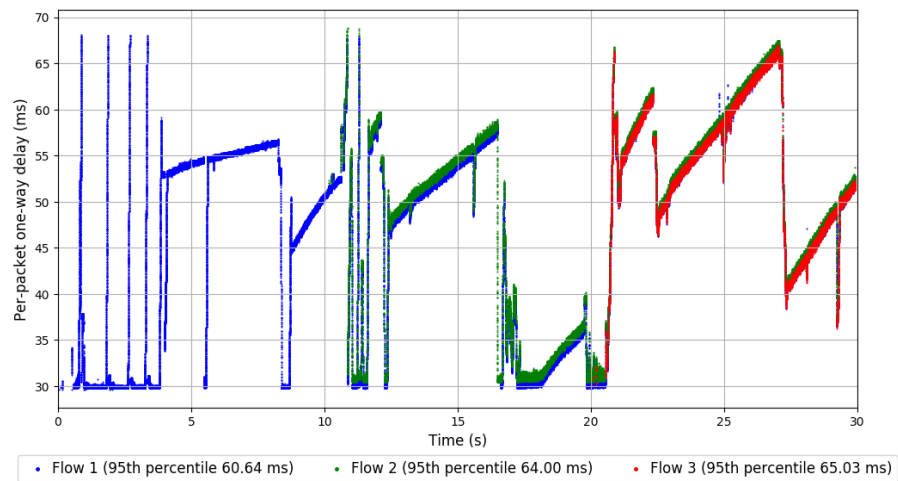
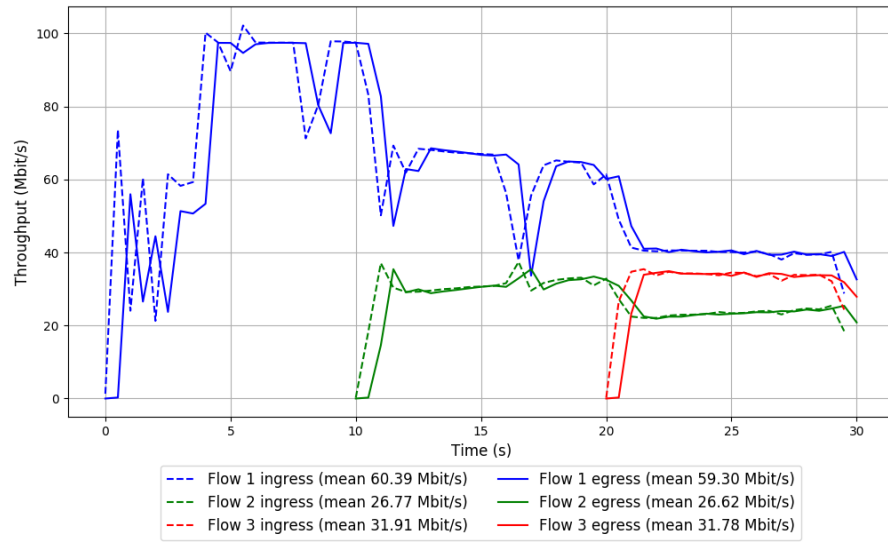
-- Flow 3:

Average throughput: 31.78 Mbit/s

95th percentile per-packet one-way delay: 65.035 ms

Loss rate: 0.21%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-24 15:07:16

End at: 2018-05-24 15:07:46

Local clock offset: 0.072 ms

Remote clock offset: 4.517 ms

Below is generated by plot.py at 2018-05-24 17:38:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.74 Mbit/s

95th percentile per-packet one-way delay: 65.692 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 70.98 Mbit/s

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

Loss rate: 1.54%

-- Flow 2:

Average throughput: 18.26 Mbit/s

95th percentile per-packet one-way delay: 66.964 ms

Loss rate: 0.66%

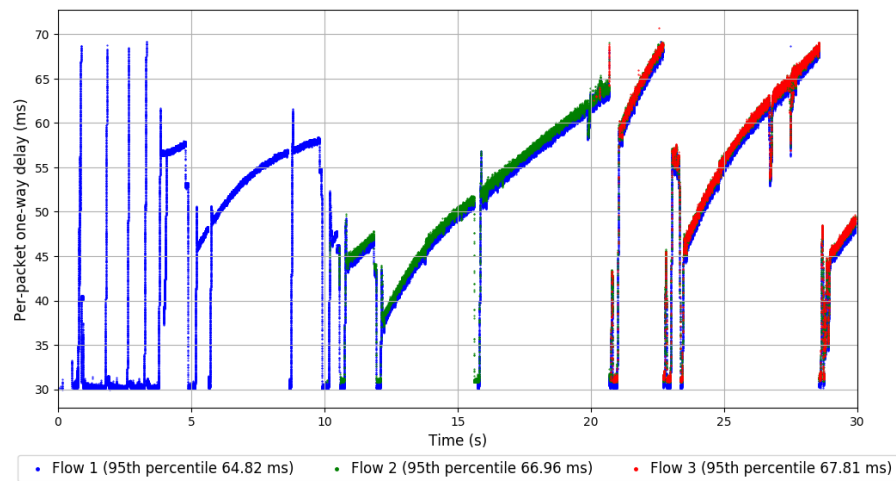
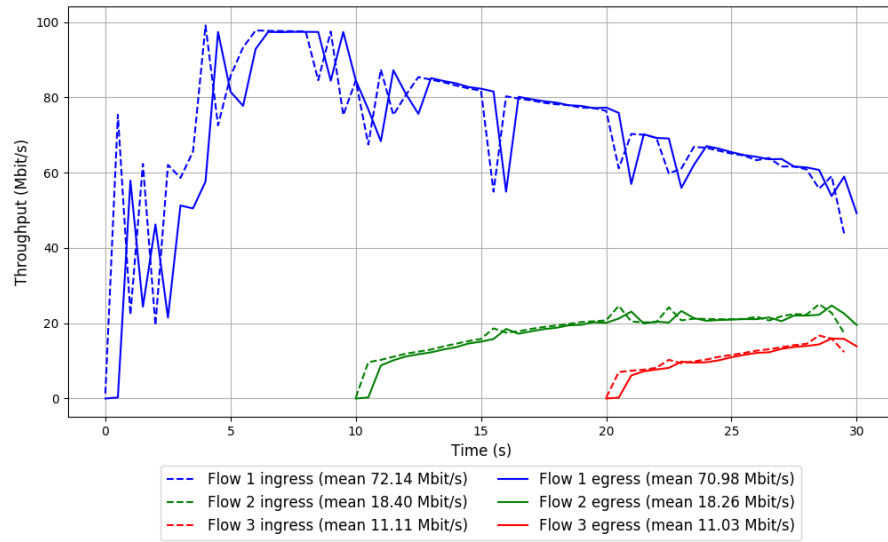
-- Flow 3:

Average throughput: 11.03 Mbit/s

95th percentile per-packet one-way delay: 67.811 ms

Loss rate: 0.86%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-24 15:28:34

End at: 2018-05-24 15:29:04

Local clock offset: 0.269 ms

Remote clock offset: 4.451 ms

Below is generated by plot.py at 2018-05-24 17:38:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.86 Mbit/s

95th percentile per-packet one-way delay: 64.886 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 63.01 Mbit/s

95th percentile per-packet one-way delay: 61.504 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 16.86 Mbit/s

95th percentile per-packet one-way delay: 65.931 ms

Loss rate: 0.57%

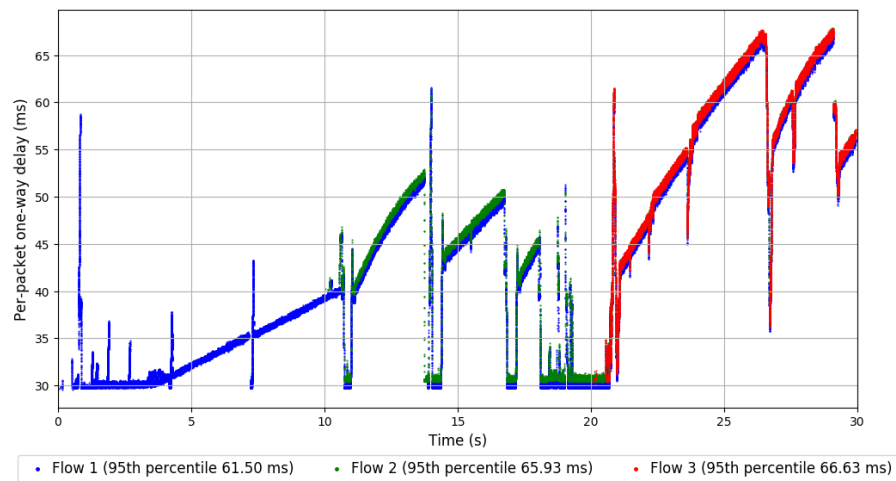
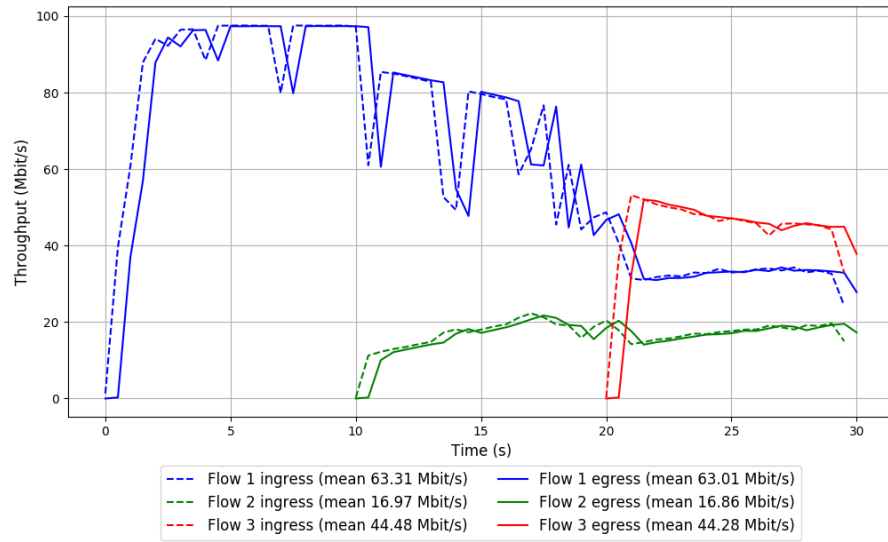
-- Flow 3:

Average throughput: 44.28 Mbit/s

95th percentile per-packet one-way delay: 66.634 ms

Loss rate: 0.19%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-24 15:49:50

End at: 2018-05-24 15:50:20

Local clock offset: 0.414 ms

Remote clock offset: 1.391 ms

Below is generated by plot.py at 2018-05-24 17:38:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.15 Mbit/s

95th percentile per-packet one-way delay: 62.711 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 60.99 Mbit/s

95th percentile per-packet one-way delay: 61.981 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 33.17 Mbit/s

95th percentile per-packet one-way delay: 63.754 ms

Loss rate: 0.73%

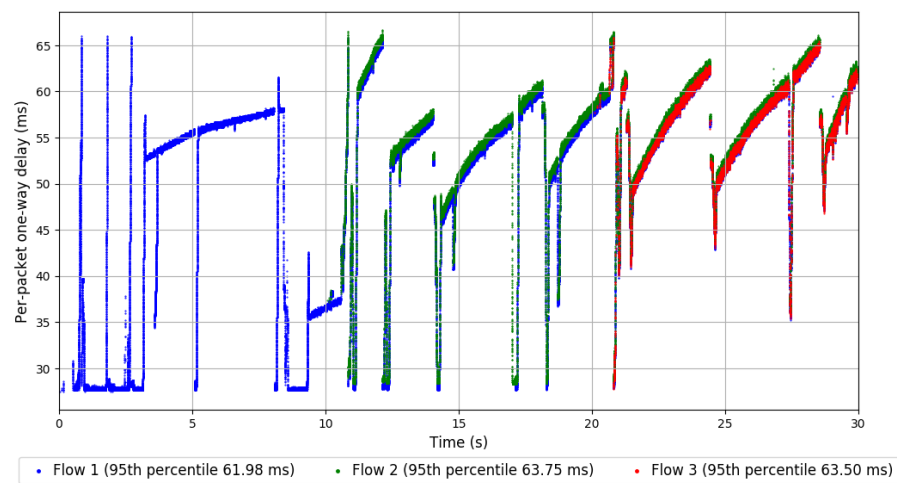
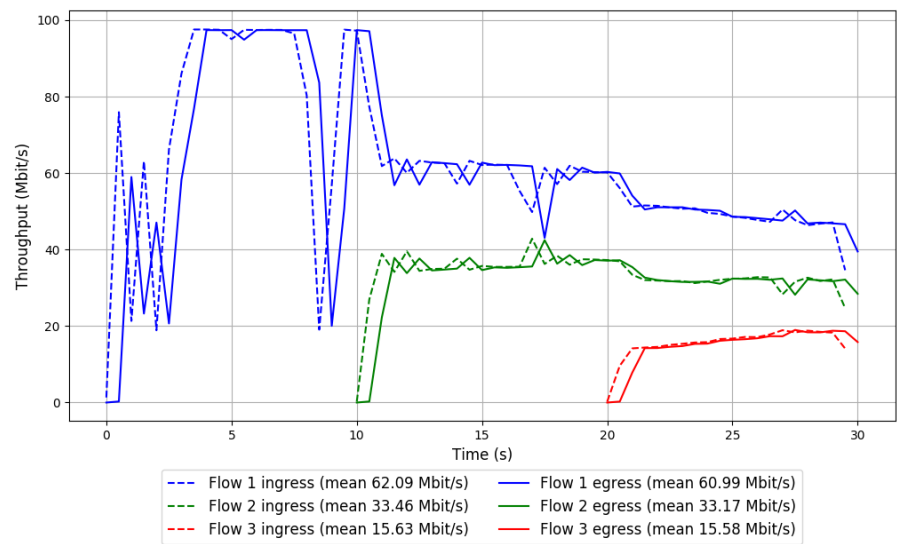
-- Flow 3:

Average throughput: 15.58 Mbit/s

95th percentile per-packet one-way delay: 63.497 ms

Loss rate: 0.33%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-24 16:11:05

End at: 2018-05-24 16:11:35

Local clock offset: 0.01 ms

Remote clock offset: 1.304 ms

Below is generated by plot.py at 2018-05-24 17:39:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.19 Mbit/s

95th percentile per-packet one-way delay: 63.178 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 65.35 Mbit/s

95th percentile per-packet one-way delay: 61.973 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 27.18 Mbit/s

95th percentile per-packet one-way delay: 64.367 ms

Loss rate: 0.84%

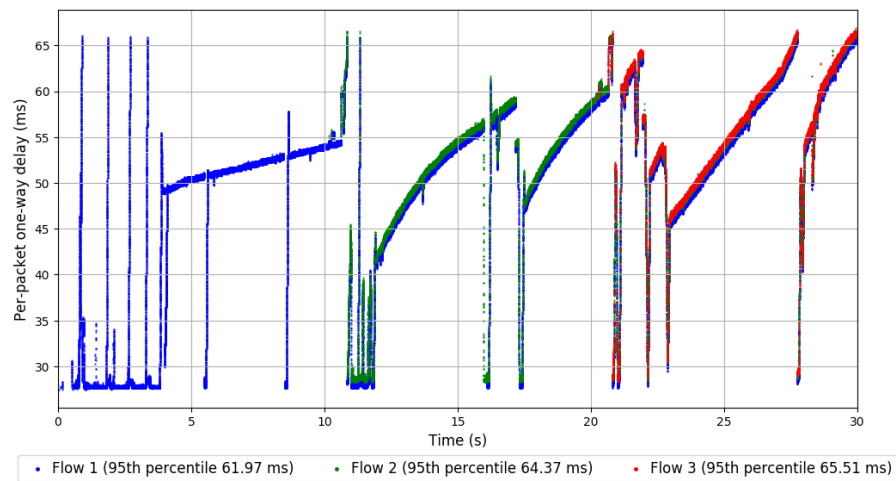
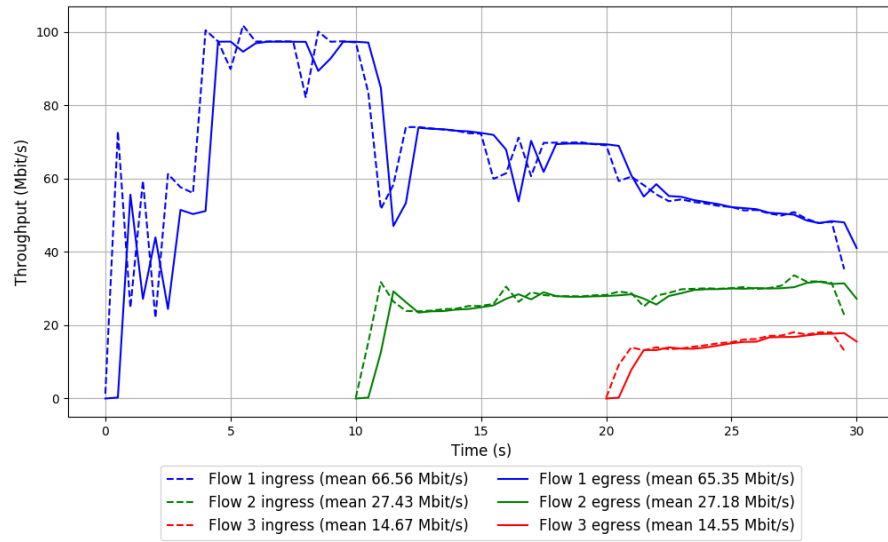
-- Flow 3:

Average throughput: 14.55 Mbit/s

95th percentile per-packet one-way delay: 65.510 ms

Loss rate: 0.67%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-24 16:32:20

End at: 2018-05-24 16:32:50

Local clock offset: 0.139 ms

Remote clock offset: 3.312 ms

Below is generated by plot.py at 2018-05-24 17:39:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.05 Mbit/s

95th percentile per-packet one-way delay: 65.970 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 65.54 Mbit/s

95th percentile per-packet one-way delay: 65.703 ms

Loss rate: 1.71%

-- Flow 2:

Average throughput: 26.35 Mbit/s

95th percentile per-packet one-way delay: 66.450 ms

Loss rate: 0.70%

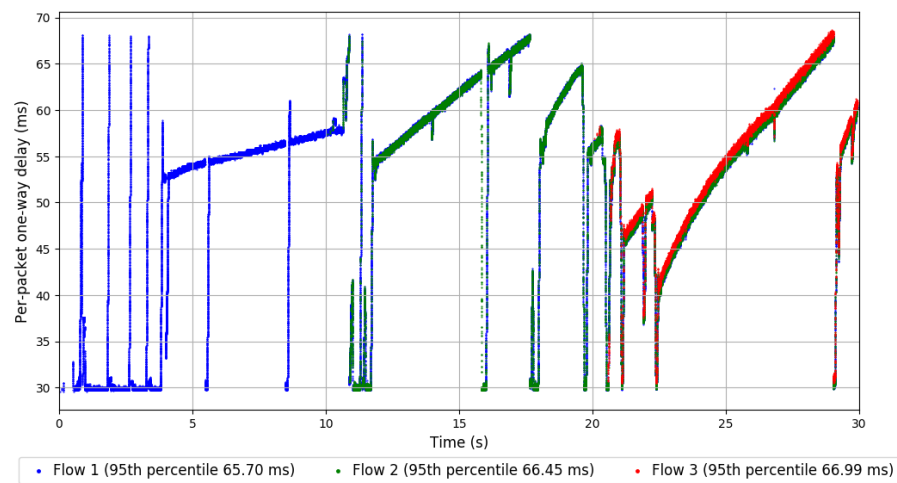
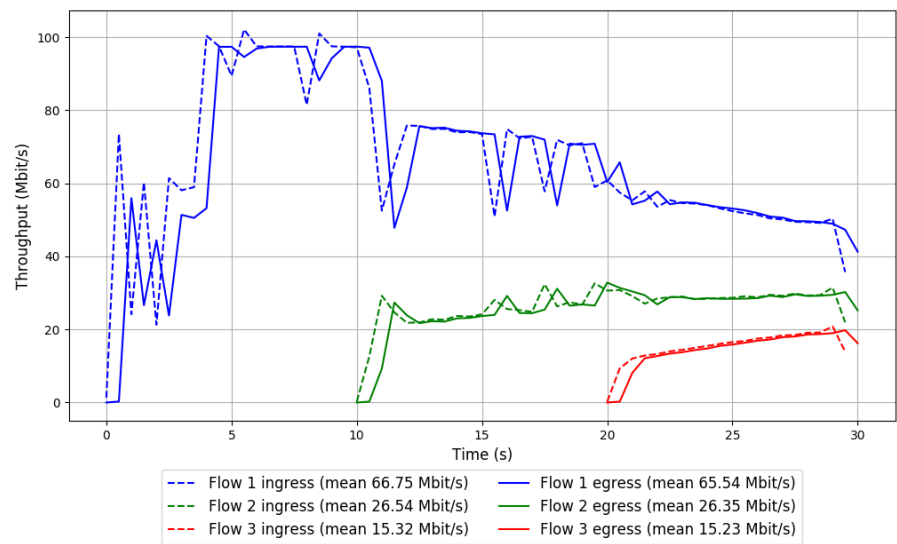
-- Flow 3:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 66.993 ms

Loss rate: 0.53%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-24 16:53:34

End at: 2018-05-24 16:54:04

Local clock offset: 0.252 ms

Remote clock offset: 3.221 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.72 Mbit/s

95th percentile per-packet one-way delay: 61.708 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 62.97 Mbit/s

95th percentile per-packet one-way delay: 60.738 ms

Loss rate: 1.67%

-- Flow 2:

Average throughput: 22.63 Mbit/s

95th percentile per-packet one-way delay: 61.991 ms

Loss rate: 0.67%

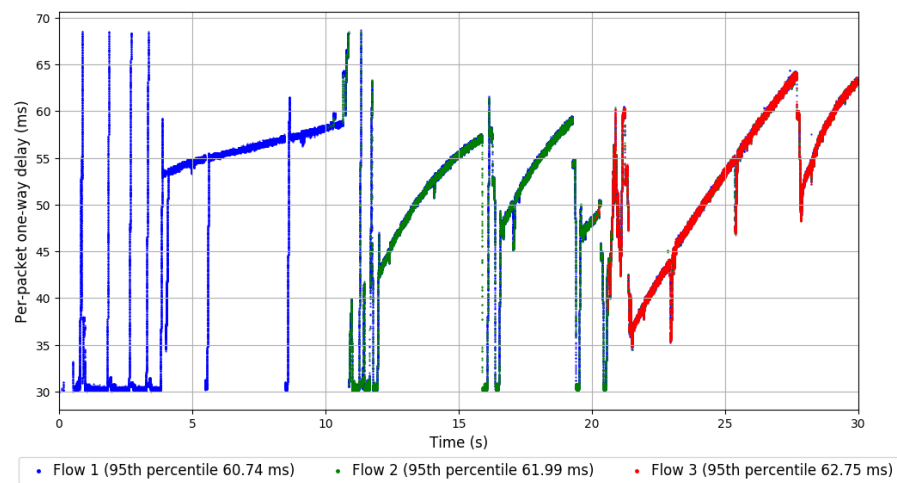
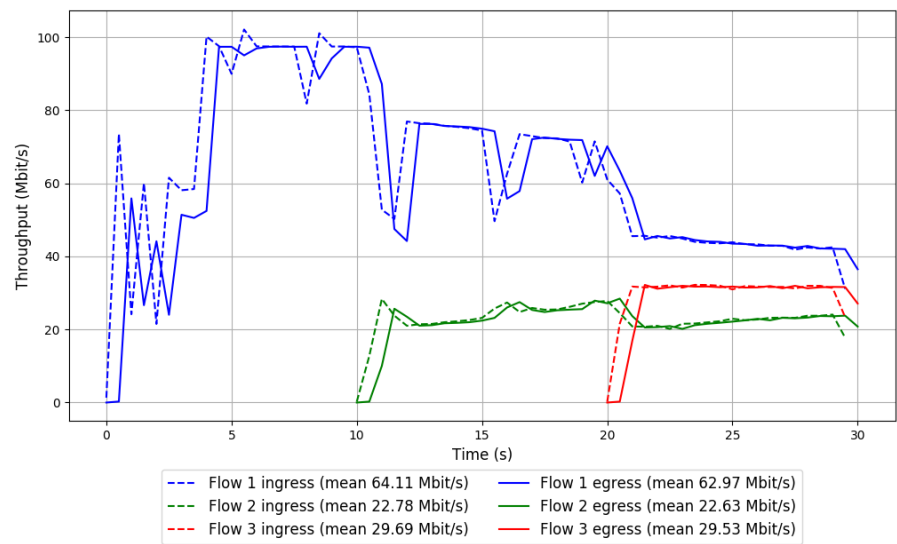
-- Flow 3:

Average throughput: 29.53 Mbit/s

95th percentile per-packet one-way delay: 62.749 ms

Loss rate: 0.40%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-24 17:14:51

End at: 2018-05-24 17:15:21

Local clock offset: 0.112 ms

Remote clock offset: 2.538 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.79 Mbit/s

95th percentile per-packet one-way delay: 66.620 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 62.36 Mbit/s

95th percentile per-packet one-way delay: 66.431 ms

Loss rate: 2.07%

-- Flow 2:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 66.391 ms

Loss rate: 1.09%

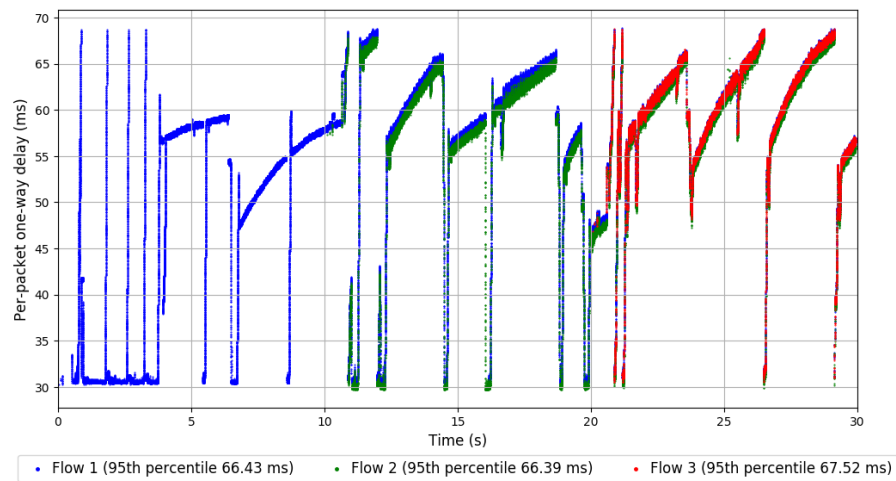
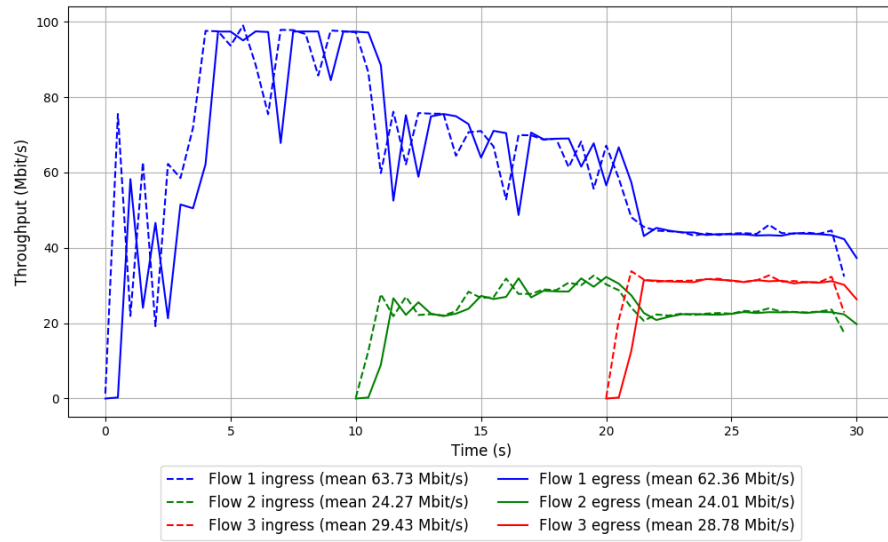
-- Flow 3:

Average throughput: 28.78 Mbit/s

95th percentile per-packet one-way delay: 67.519 ms

Loss rate: 2.12%

Run 10: Report of QUIC Cubic — Data Link

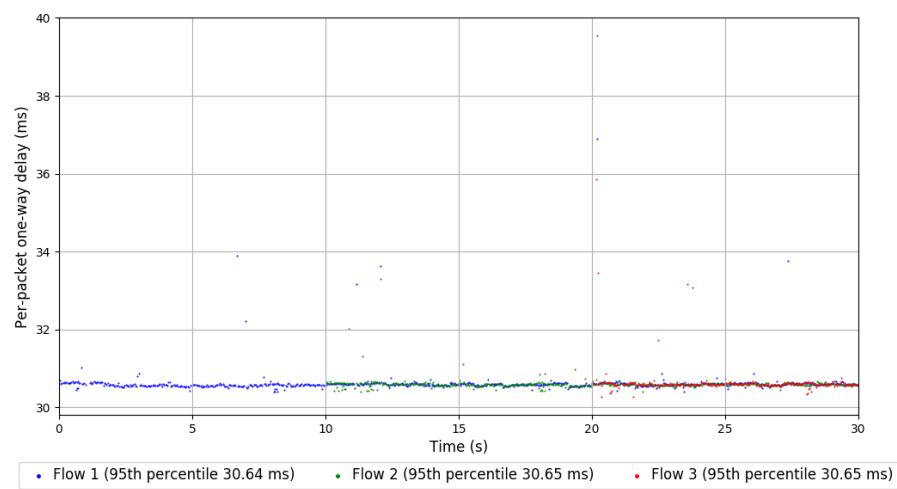
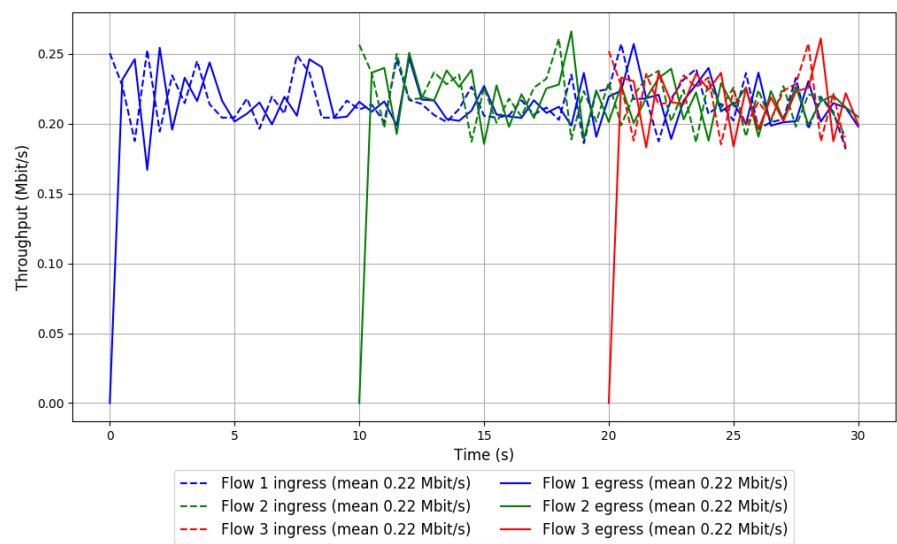


```
Run 1: Statistics of SReAM

Start at: 2018-05-24 13:54:05
End at: 2018-05-24 13:54:35
Local clock offset: 1.73 ms
Remote clock offset: 2.983 ms

# Below is generated by plot.py at 2018-05-24 17:39:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 30.646 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.645 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.646 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.646 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-05-24 14:15:21

End at: 2018-05-24 14:15:51

Local clock offset: -0.167 ms

Remote clock offset: 1.135 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 28.591 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.607 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 27.918 ms

Loss rate: 0.00%

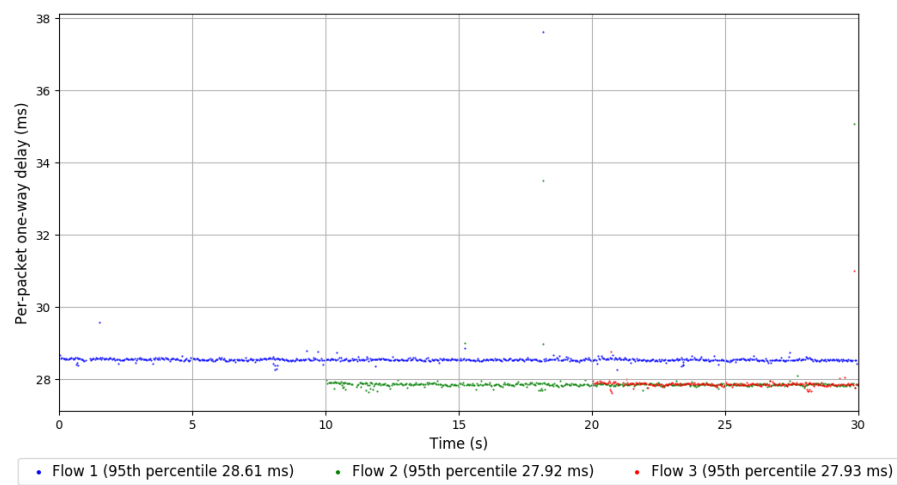
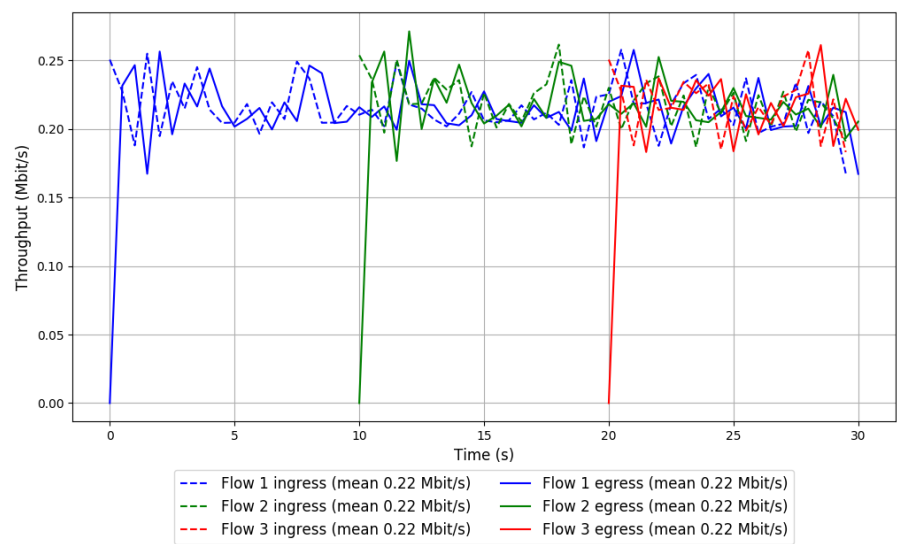
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 27.929 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-05-24 14:36:37

End at: 2018-05-24 14:37:07

Local clock offset: -0.653 ms

Remote clock offset: 1.487 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 28.564 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 28.570 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 28.569 ms

Loss rate: 0.29%

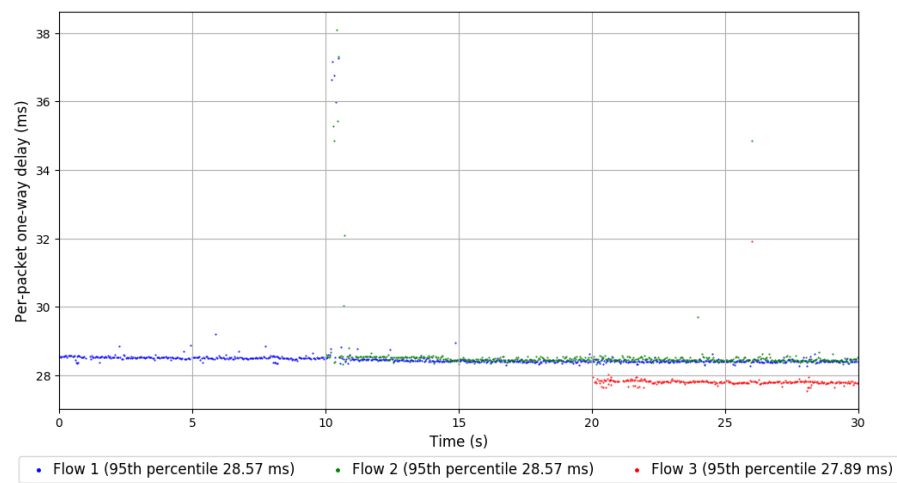
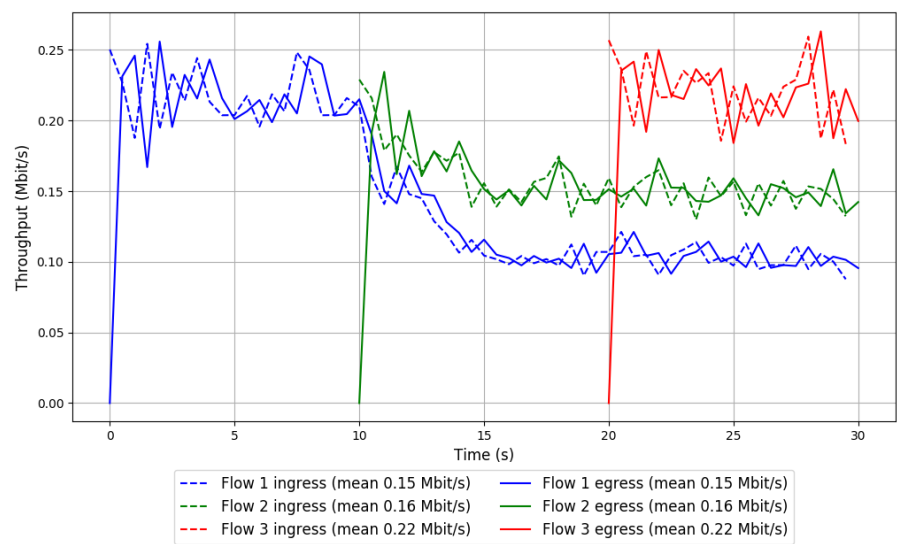
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 27.887 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-05-24 14:57:52

End at: 2018-05-24 14:58:22

Local clock offset: -0.733 ms

Remote clock offset: 1.911 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 28.020 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.043 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.003 ms

Loss rate: 0.00%

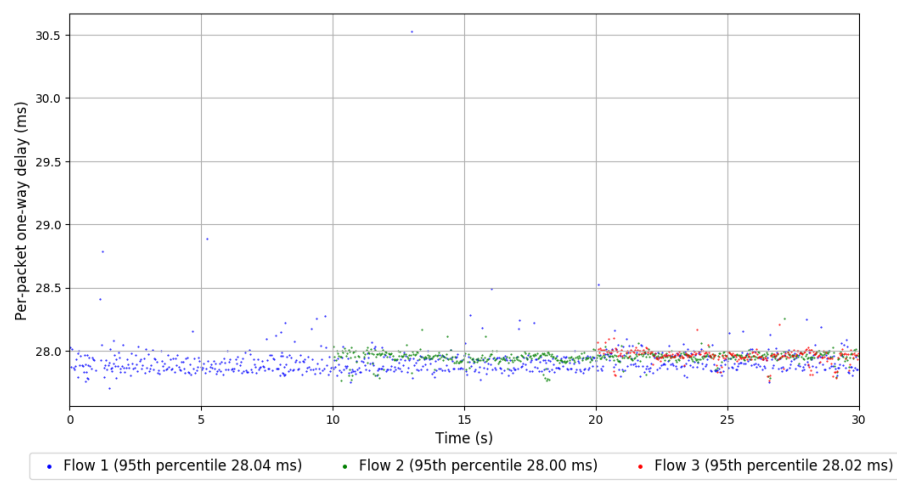
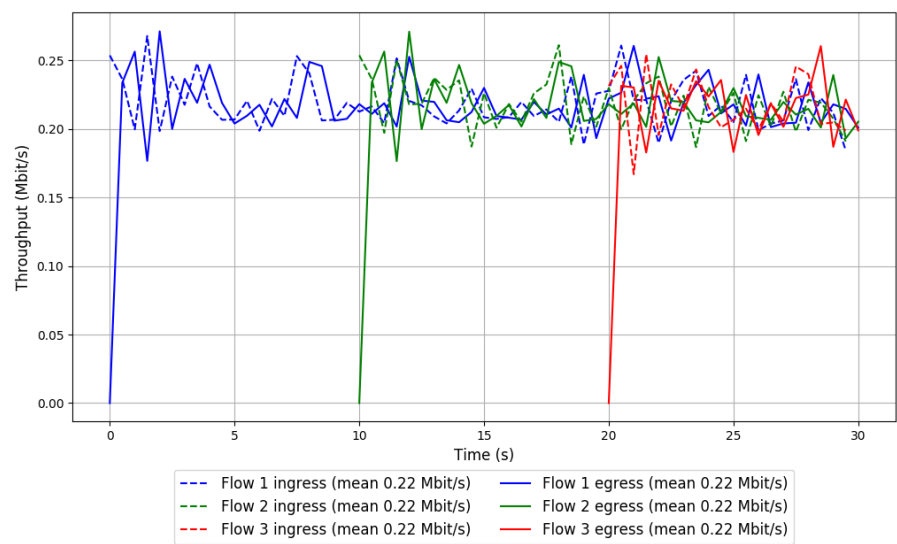
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.015 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-05-24 15:19:10

End at: 2018-05-24 15:19:40

Local clock offset: 0.3 ms

Remote clock offset: 4.753 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.996 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.359 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.361 ms

Loss rate: 0.00%

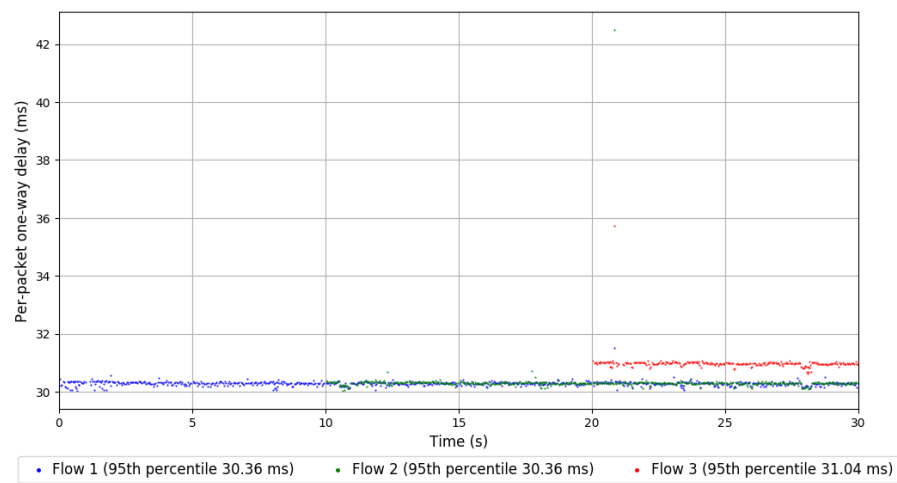
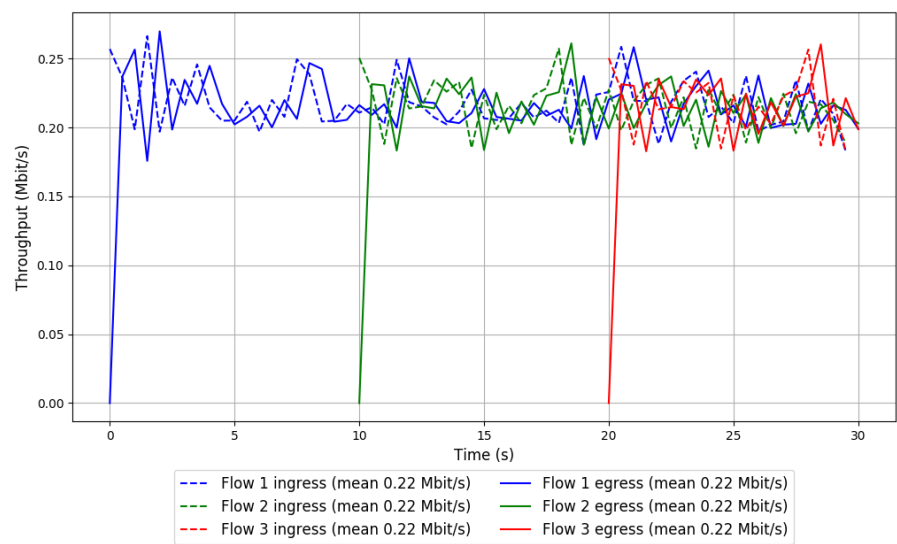
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.036 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-05-24 15:40:27

End at: 2018-05-24 15:40:57

Local clock offset: 0.32 ms

Remote clock offset: 3.828 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.681 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.038 ms

Loss rate: 0.00%

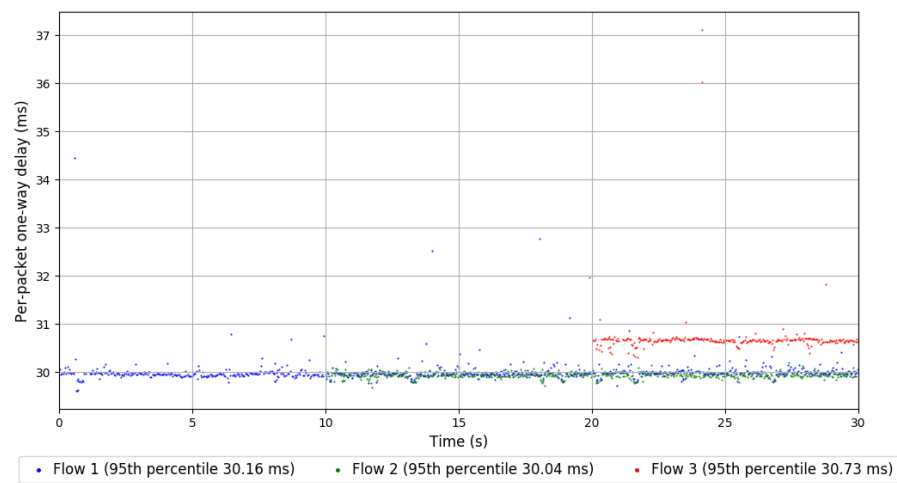
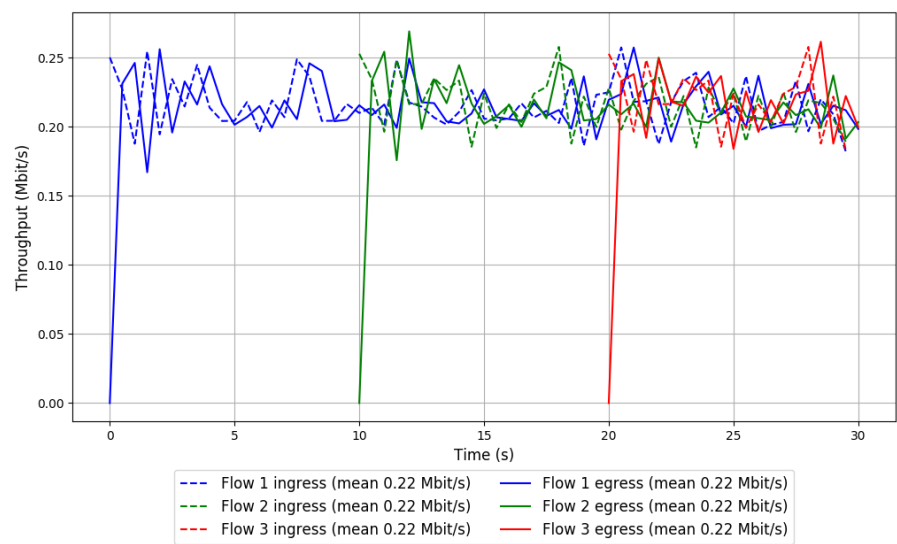
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.726 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

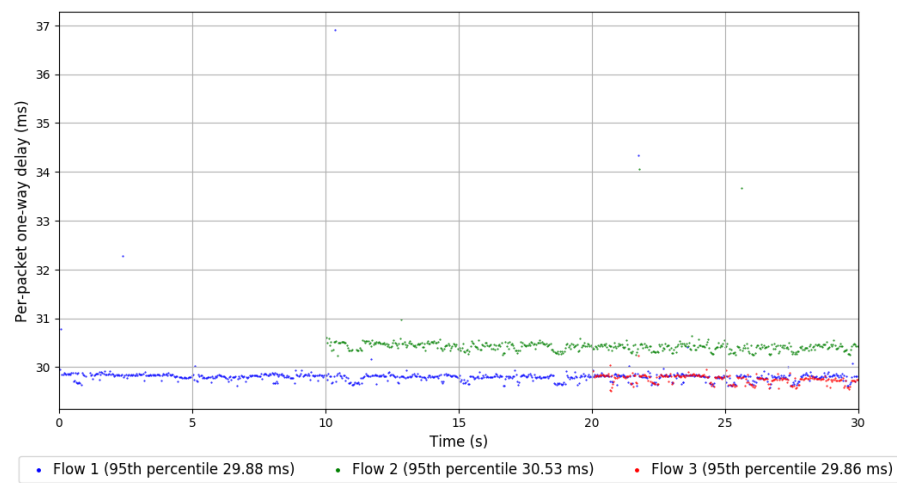
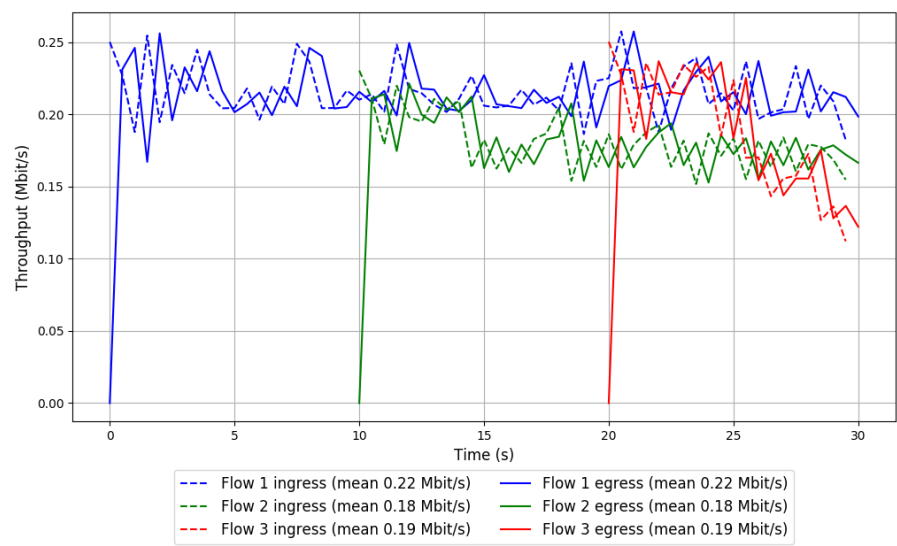


Run 7: Statistics of SCReAM

Start at: 2018-05-24 16:01:42
End at: 2018-05-24 16:02:12
Local clock offset: 0.251 ms
Remote clock offset: 3.5 ms

Below is generated by plot.py at 2018-05-24 17:39:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 30.495 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.881 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 30.528 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 29.858 ms
Loss rate: 0.44%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-24 16:22:57

End at: 2018-05-24 16:23:27

Local clock offset: -0.047 ms

Remote clock offset: 1.235 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 28.592 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 28.595 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 28.607 ms

Loss rate: 0.20%

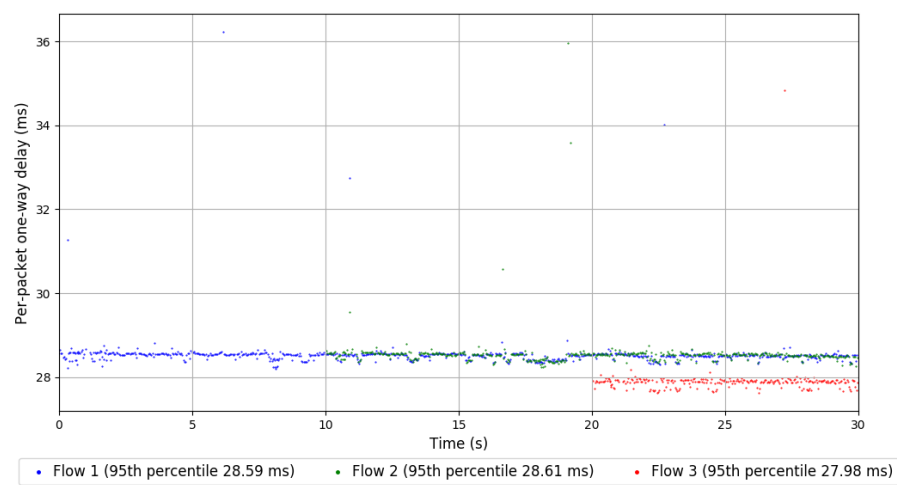
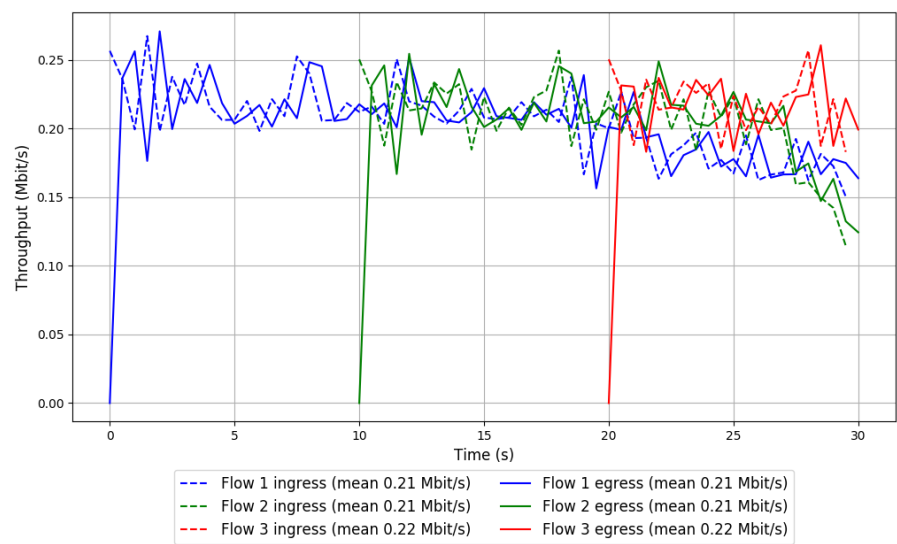
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-05-24 16:44:11

End at: 2018-05-24 16:44:41

Local clock offset: 0.191 ms

Remote clock offset: 3.321 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 30.771 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.788 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.757 ms

Loss rate: 0.00%

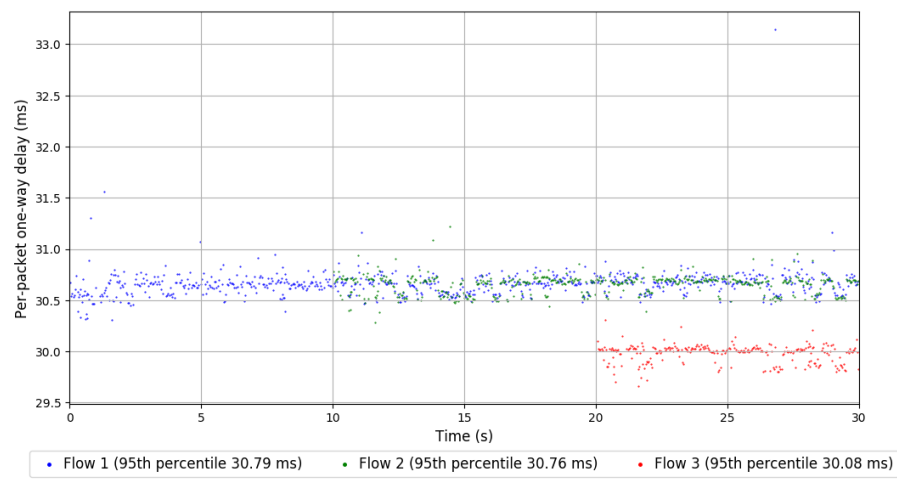
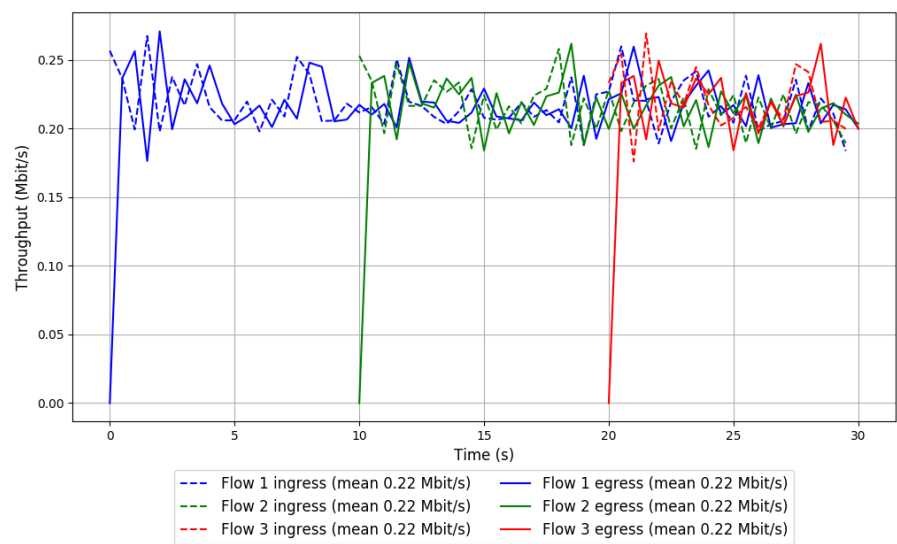
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.077 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-05-24 17:05:28

End at: 2018-05-24 17:05:58

Local clock offset: 0.18 ms

Remote clock offset: 2.633 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.650 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.699 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.002 ms

Loss rate: 0.00%

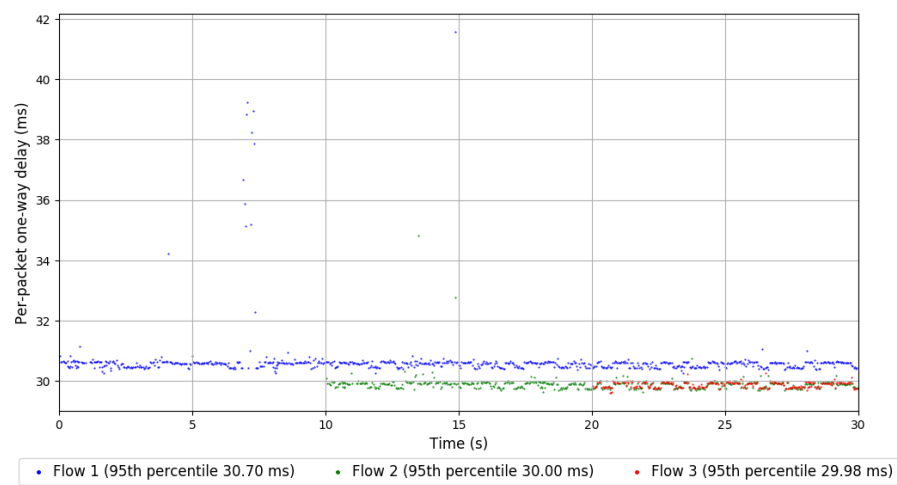
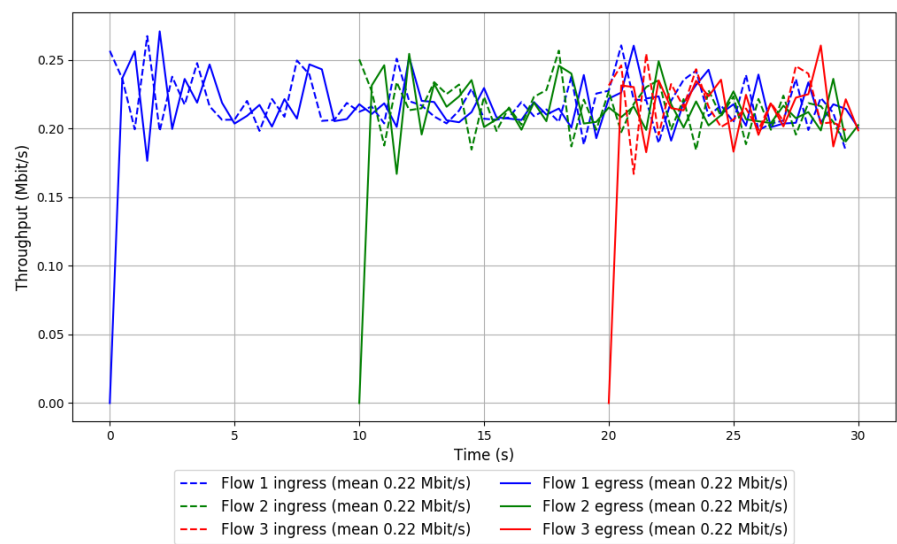
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.984 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-24 14:00:50

End at: 2018-05-24 14:01:20

Local clock offset: 0.98 ms

Remote clock offset: 0.985 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.38 Mbit/s

95th percentile per-packet one-way delay: 36.580 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 13.68 Mbit/s

95th percentile per-packet one-way delay: 37.275 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 11.80 Mbit/s

95th percentile per-packet one-way delay: 35.500 ms

Loss rate: 0.43%

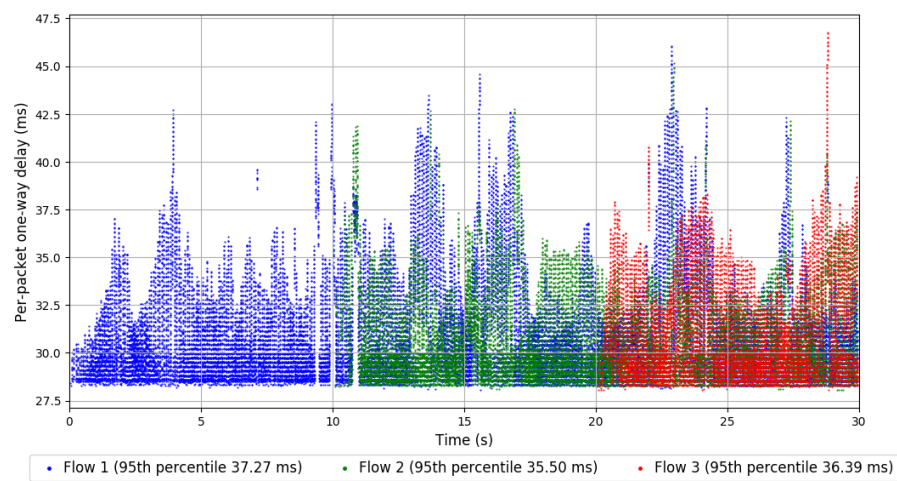
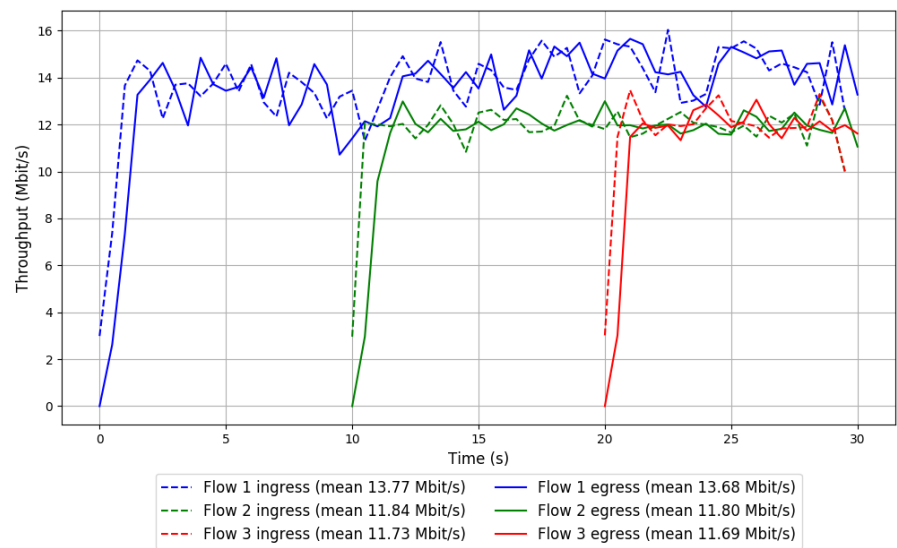
-- Flow 3:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 36.393 ms

Loss rate: 0.30%

Run 1: Report of Sprout — Data Link

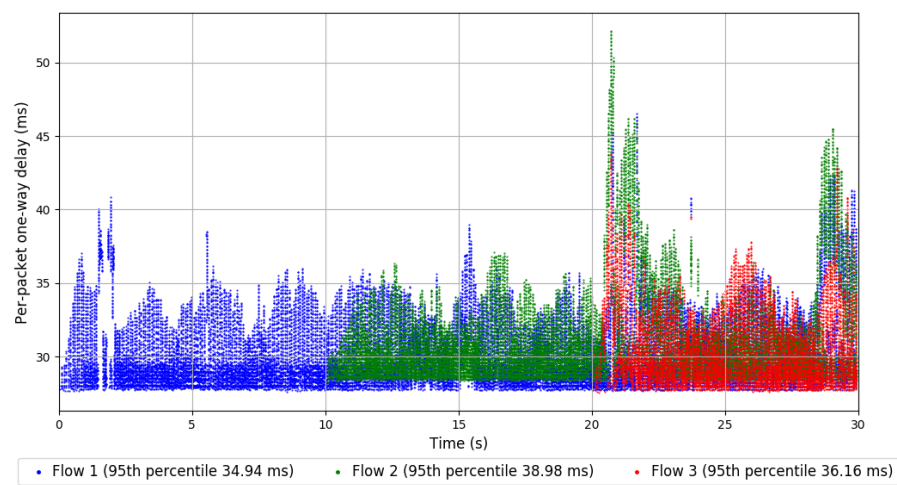
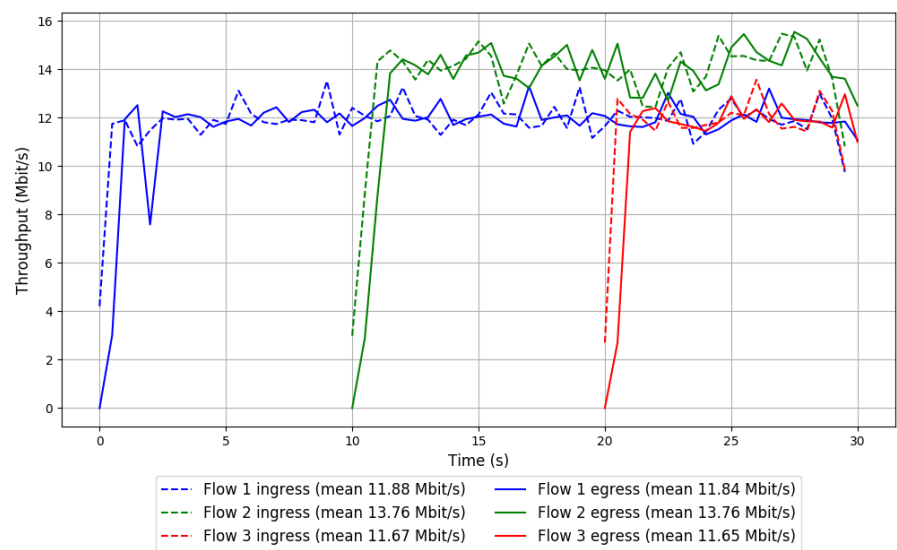


Run 2: Statistics of Sprout

Start at: 2018-05-24 14:22:06
End at: 2018-05-24 14:22:36
Local clock offset: -0.325 ms
Remote clock offset: 1.222 ms

```
# Below is generated by plot.py at 2018-05-24 17:39:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 36.512 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 34.938 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 13.76 Mbit/s
95th percentile per-packet one-way delay: 38.983 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 36.161 ms
Loss rate: 0.10%
```

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-05-24 14:43:22

End at: 2018-05-24 14:43:52

Local clock offset: -0.69 ms

Remote clock offset: 3.746 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.66 Mbit/s

95th percentile per-packet one-way delay: 37.708 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 11.90 Mbit/s

95th percentile per-packet one-way delay: 37.087 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 11.86 Mbit/s

95th percentile per-packet one-way delay: 37.436 ms

Loss rate: 0.00%

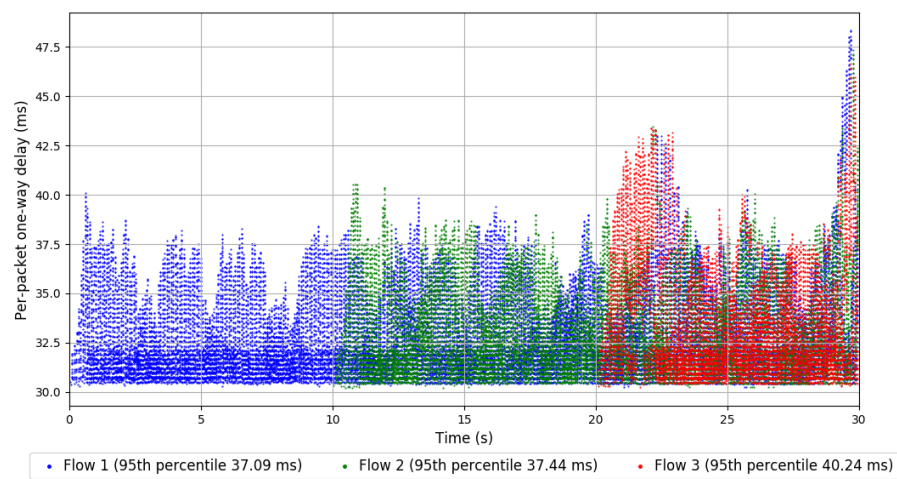
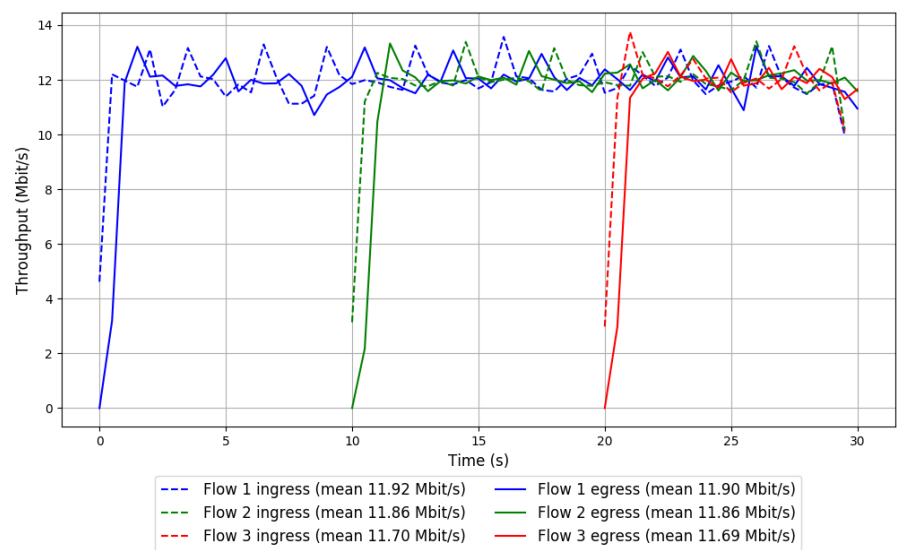
-- Flow 3:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 40.245 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

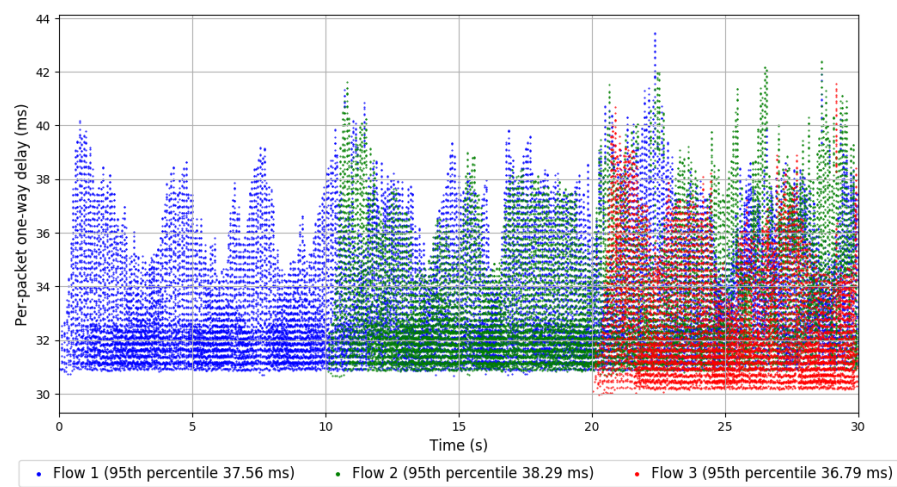
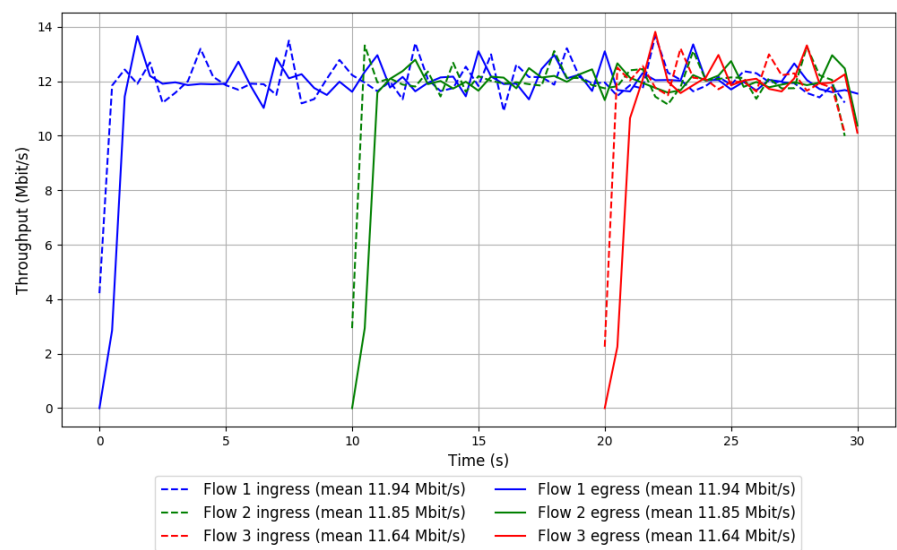


Run 4: Statistics of Sprout

Start at: 2018-05-24 15:04:38
End at: 2018-05-24 15:05:08
Local clock offset: -0.065 ms
Remote clock offset: 4.474 ms

```
# Below is generated by plot.py at 2018-05-24 17:39:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.67 Mbit/s
95th percentile per-packet one-way delay: 37.711 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.94 Mbit/s
95th percentile per-packet one-way delay: 37.559 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 38.287 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 11.64 Mbit/s
95th percentile per-packet one-way delay: 36.792 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-24 15:25:56

End at: 2018-05-24 15:26:26

Local clock offset: 0.332 ms

Remote clock offset: 4.861 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.38 Mbit/s

95th percentile per-packet one-way delay: 38.129 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.11 Mbit/s

95th percentile per-packet one-way delay: 34.906 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.24 Mbit/s

95th percentile per-packet one-way delay: 38.765 ms

Loss rate: 0.00%

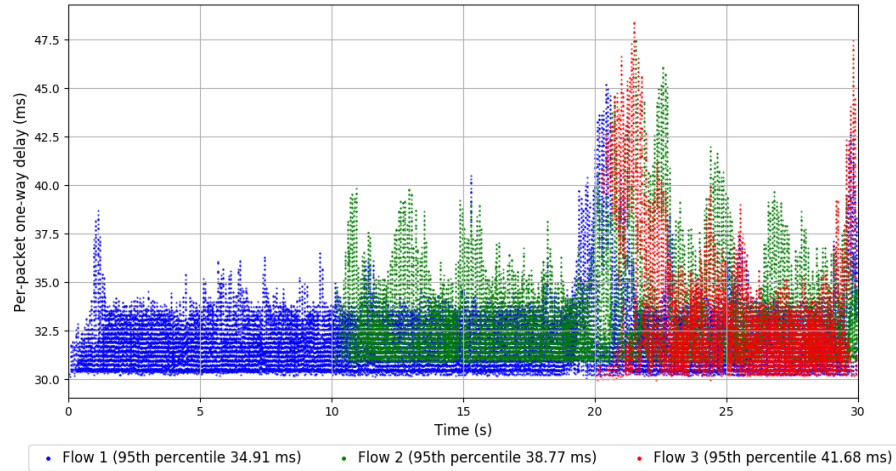
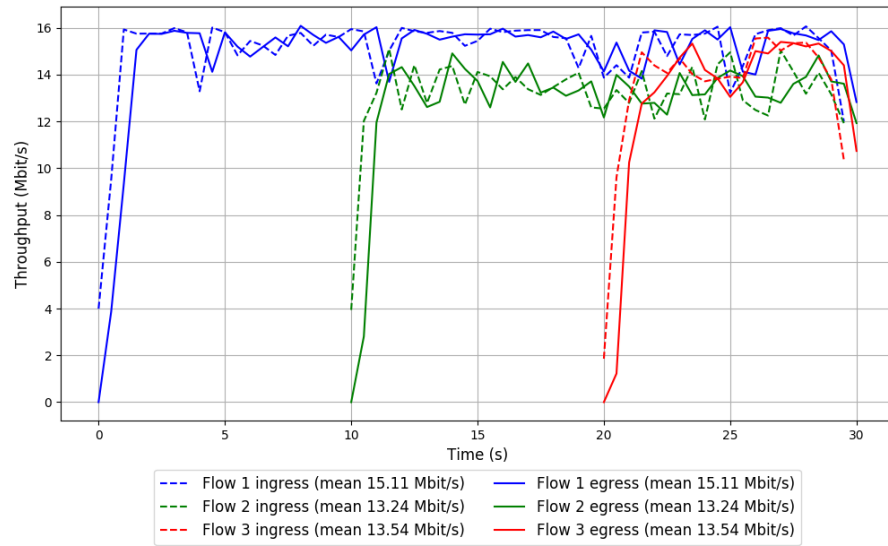
-- Flow 3:

Average throughput: 13.54 Mbit/s

95th percentile per-packet one-way delay: 41.684 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-24 15:47:12

End at: 2018-05-24 15:47:42

Local clock offset: 0.406 ms

Remote clock offset: 1.406 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.08 Mbit/s

95th percentile per-packet one-way delay: 35.654 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 12.01 Mbit/s

95th percentile per-packet one-way delay: 34.724 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 13.86 Mbit/s

95th percentile per-packet one-way delay: 36.293 ms

Loss rate: 0.06%

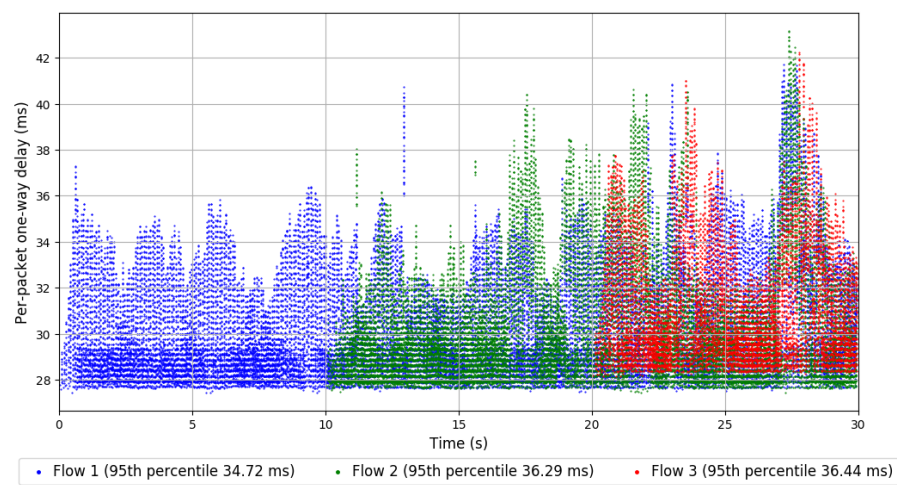
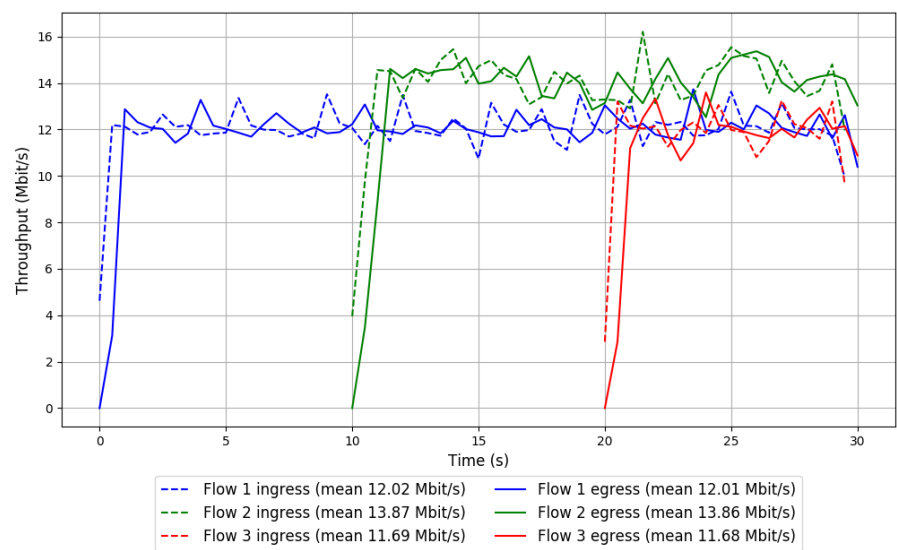
-- Flow 3:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 36.436 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

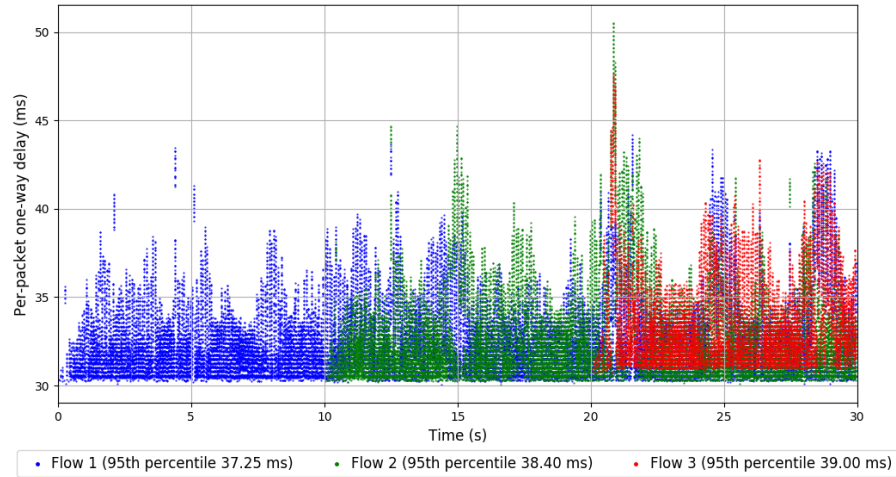
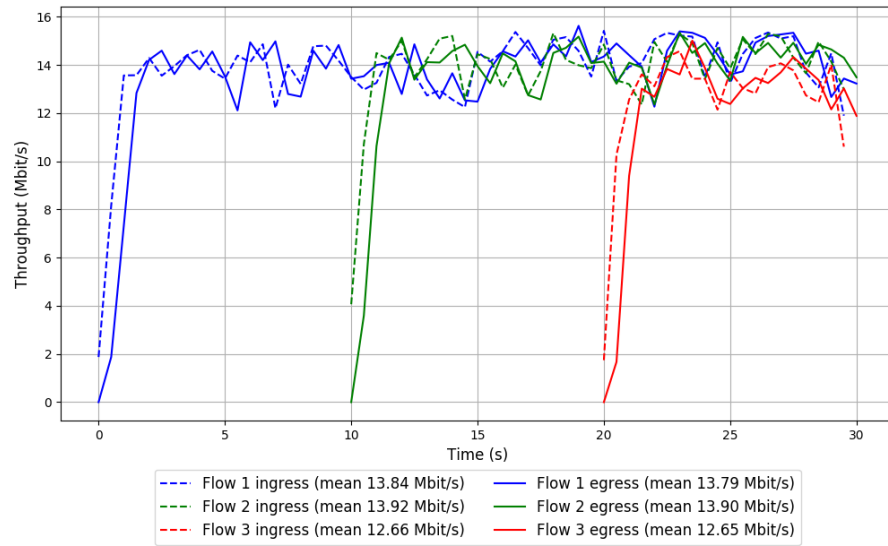


Run 7: Statistics of Sprout

Start at: 2018-05-24 16:08:27
End at: 2018-05-24 16:08:57
Local clock offset: 0.153 ms
Remote clock offset: 4.164 ms

```
# Below is generated by plot.py at 2018-05-24 17:39:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.22 Mbit/s
95th percentile per-packet one-way delay: 38.001 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 13.79 Mbit/s
95th percentile per-packet one-way delay: 37.247 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 13.90 Mbit/s
95th percentile per-packet one-way delay: 38.398 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 39.001 ms
Loss rate: 0.09%
```

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-05-24 16:29:43

End at: 2018-05-24 16:30:13

Local clock offset: 0.095 ms

Remote clock offset: 3.285 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.18 Mbit/s

95th percentile per-packet one-way delay: 38.953 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 11.98 Mbit/s

95th percentile per-packet one-way delay: 37.350 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.15 Mbit/s

95th percentile per-packet one-way delay: 40.703 ms

Loss rate: 0.18%

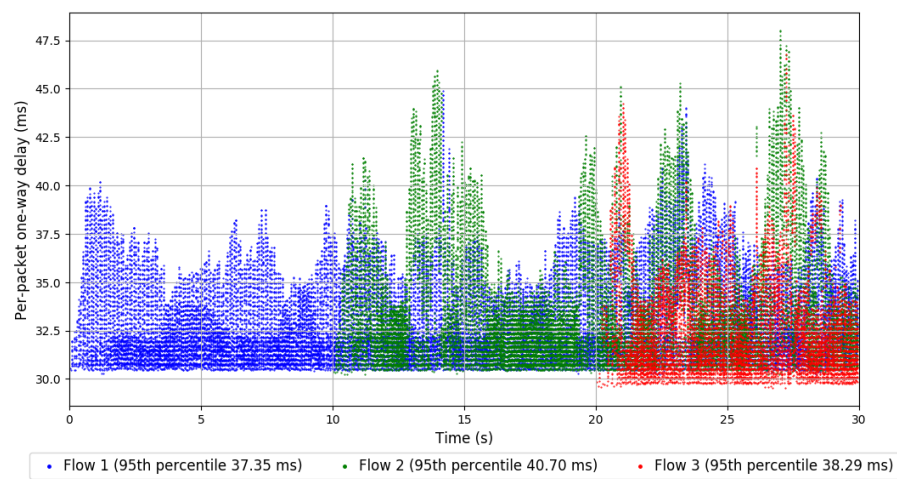
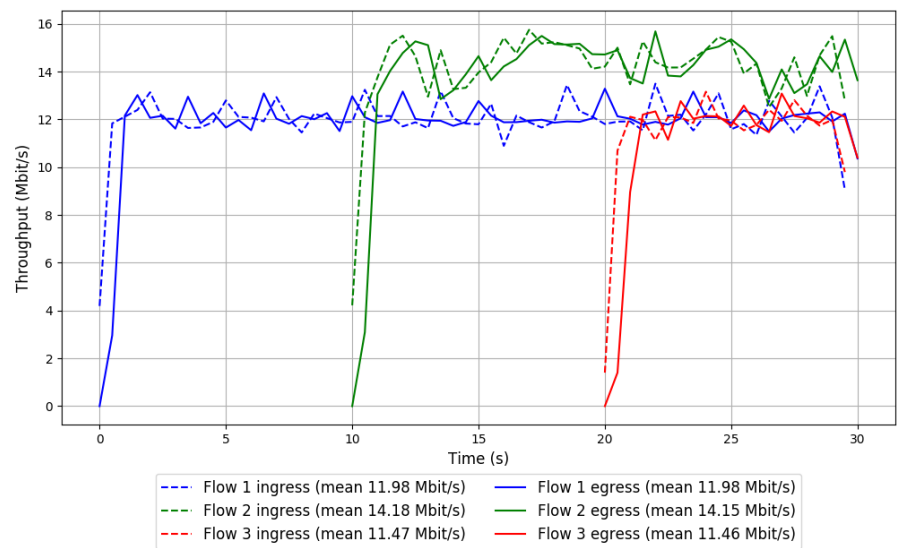
-- Flow 3:

Average throughput: 11.46 Mbit/s

95th percentile per-packet one-way delay: 38.288 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-24 16:50:55

End at: 2018-05-24 16:51:25

Local clock offset: 0.148 ms

Remote clock offset: 0.819 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.44 Mbit/s

95th percentile per-packet one-way delay: 38.232 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 13.67 Mbit/s

95th percentile per-packet one-way delay: 39.129 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 11.87 Mbit/s

95th percentile per-packet one-way delay: 36.529 ms

Loss rate: 0.10%

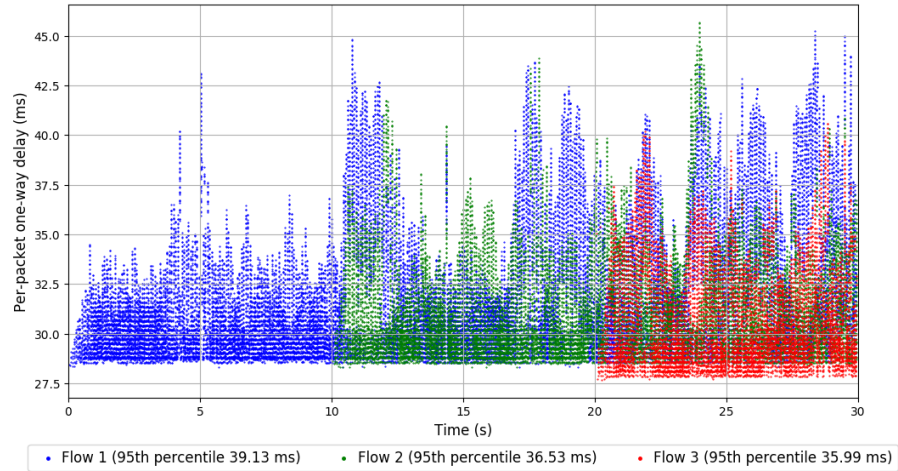
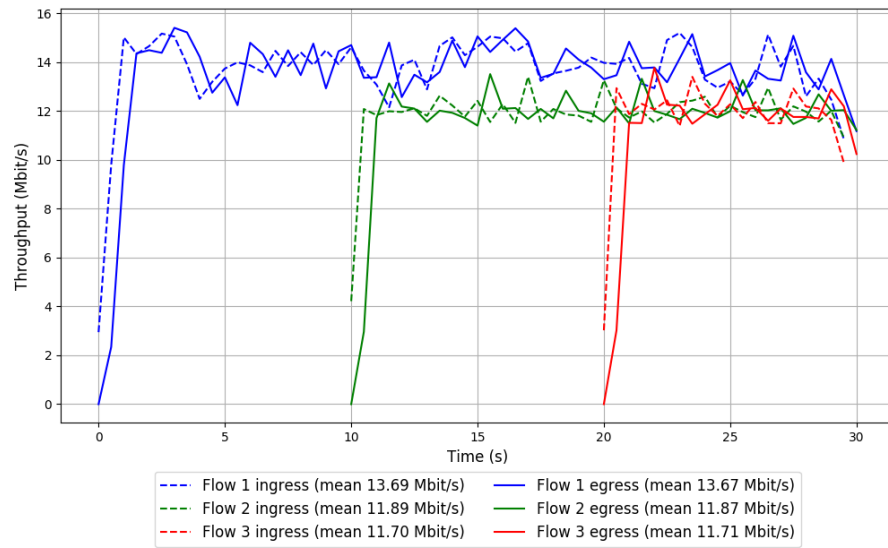
-- Flow 3:

Average throughput: 11.71 Mbit/s

95th percentile per-packet one-way delay: 35.992 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-24 17:12:13

End at: 2018-05-24 17:12:43

Local clock offset: 0.136 ms

Remote clock offset: 0.517 ms

Below is generated by plot.py at 2018-05-24 17:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.53 Mbit/s

95th percentile per-packet one-way delay: 38.940 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 11.97 Mbit/s

95th percentile per-packet one-way delay: 35.062 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 13.83 Mbit/s

95th percentile per-packet one-way delay: 40.564 ms

Loss rate: 0.00%

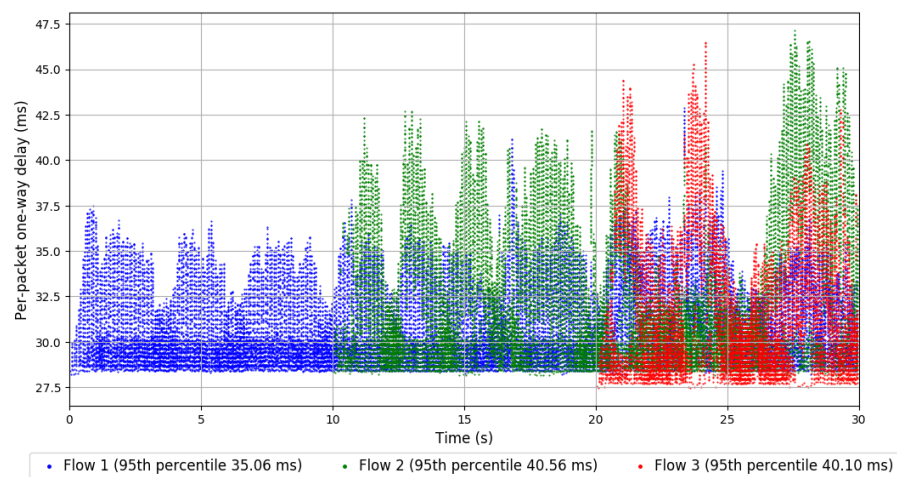
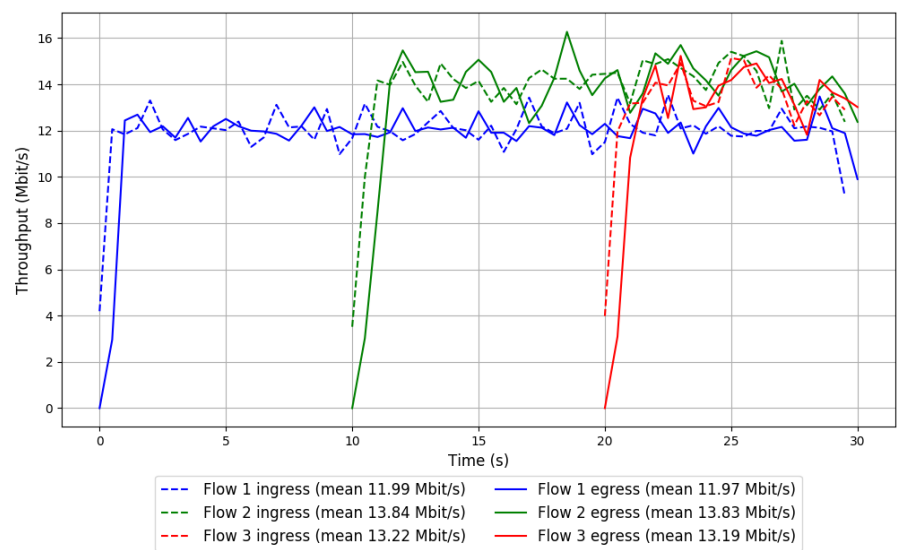
-- Flow 3:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 40.104 ms

Loss rate: 0.20%

Run 10: Report of Sprout — Data Link

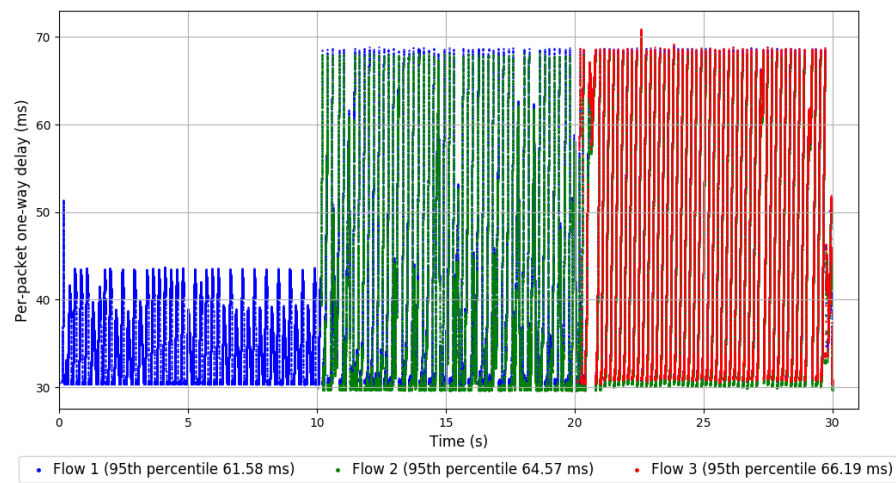
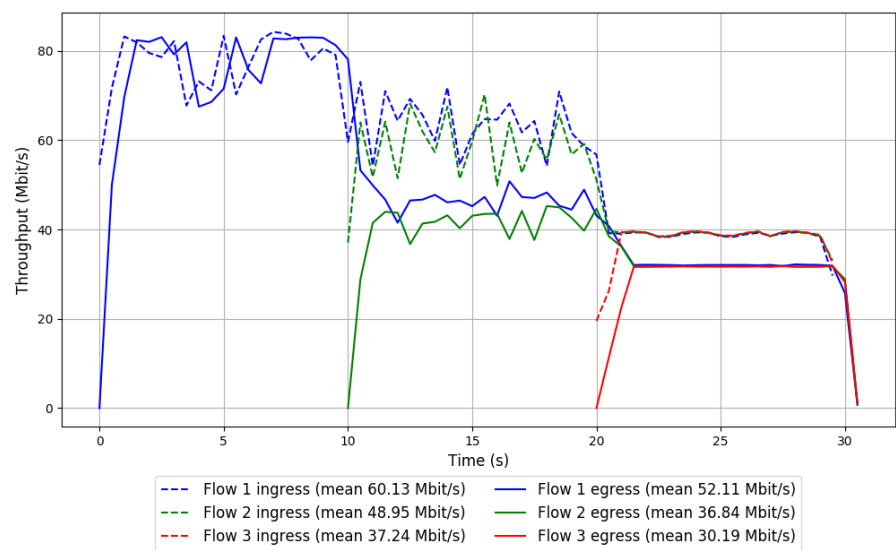


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-24 13:58:04
End at: 2018-05-24 13:58:34
Local clock offset: 1.294 ms
Remote clock offset: 2.985 ms

# Below is generated by plot.py at 2018-05-24 17:41:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.71 Mbit/s
95th percentile per-packet one-way delay: 63.850 ms
Loss rate: 17.54%
-- Flow 1:
Average throughput: 52.11 Mbit/s
95th percentile per-packet one-way delay: 61.576 ms
Loss rate: 13.33%
-- Flow 2:
Average throughput: 36.84 Mbit/s
95th percentile per-packet one-way delay: 64.571 ms
Loss rate: 24.74%
-- Flow 3:
Average throughput: 30.19 Mbit/s
95th percentile per-packet one-way delay: 66.194 ms
Loss rate: 18.97%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-24 14:19:20

End at: 2018-05-24 14:19:50

Local clock offset: -0.23 ms

Remote clock offset: 1.174 ms

Below is generated by plot.py at 2018-05-24 17:41:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.79 Mbit/s

95th percentile per-packet one-way delay: 62.614 ms

Loss rate: 18.11%

-- Flow 1:

Average throughput: 50.92 Mbit/s

95th percentile per-packet one-way delay: 60.534 ms

Loss rate: 13.97%

-- Flow 2:

Average throughput: 38.26 Mbit/s

95th percentile per-packet one-way delay: 63.454 ms

Loss rate: 24.93%

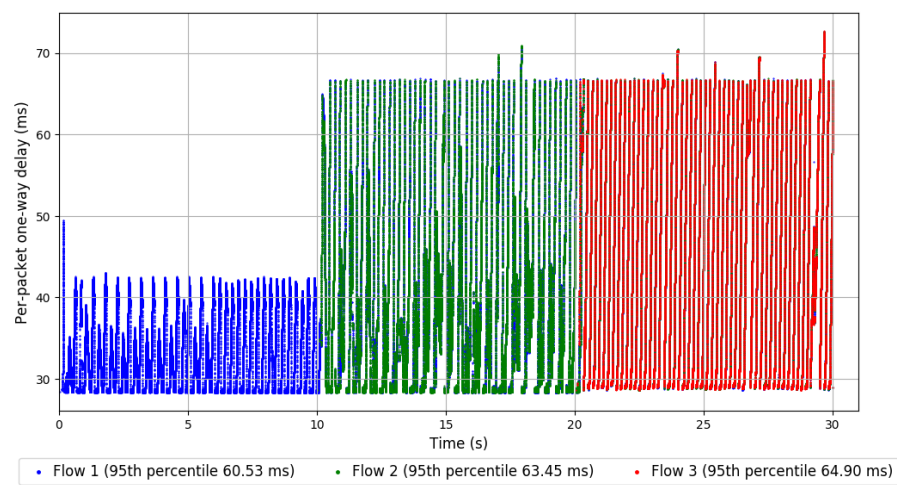
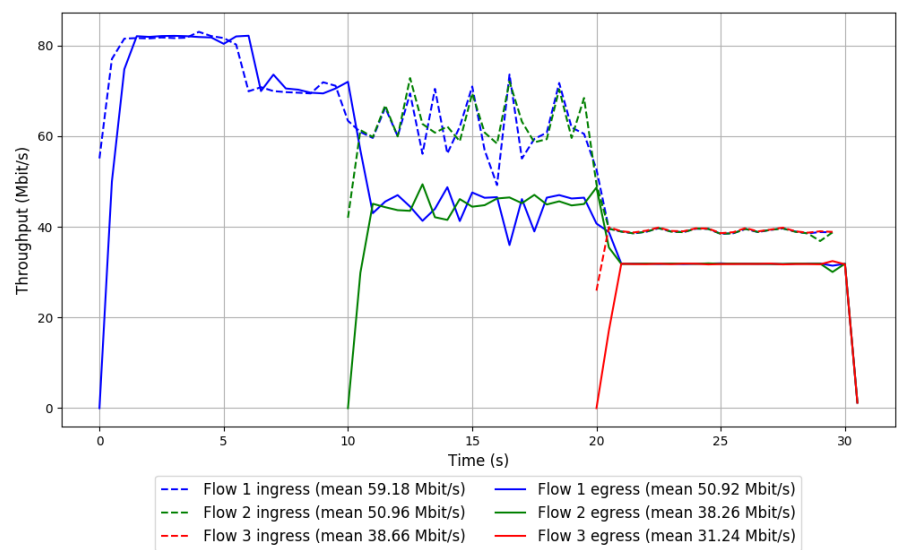
-- Flow 3:

Average throughput: 31.24 Mbit/s

95th percentile per-packet one-way delay: 64.899 ms

Loss rate: 19.18%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-24 14:40:36

End at: 2018-05-24 14:41:06

Local clock offset: -0.612 ms

Remote clock offset: 4.108 ms

Below is generated by plot.py at 2018-05-24 17:41:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.19 Mbit/s

95th percentile per-packet one-way delay: 64.098 ms

Loss rate: 17.83%

-- Flow 1:

Average throughput: 52.40 Mbit/s

95th percentile per-packet one-way delay: 61.818 ms

Loss rate: 13.75%

-- Flow 2:

Average throughput: 37.77 Mbit/s

95th percentile per-packet one-way delay: 64.879 ms

Loss rate: 25.09%

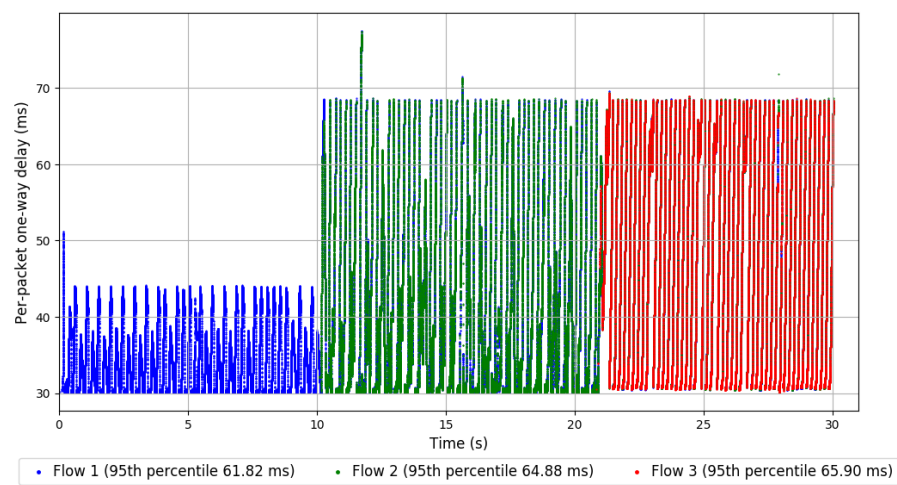
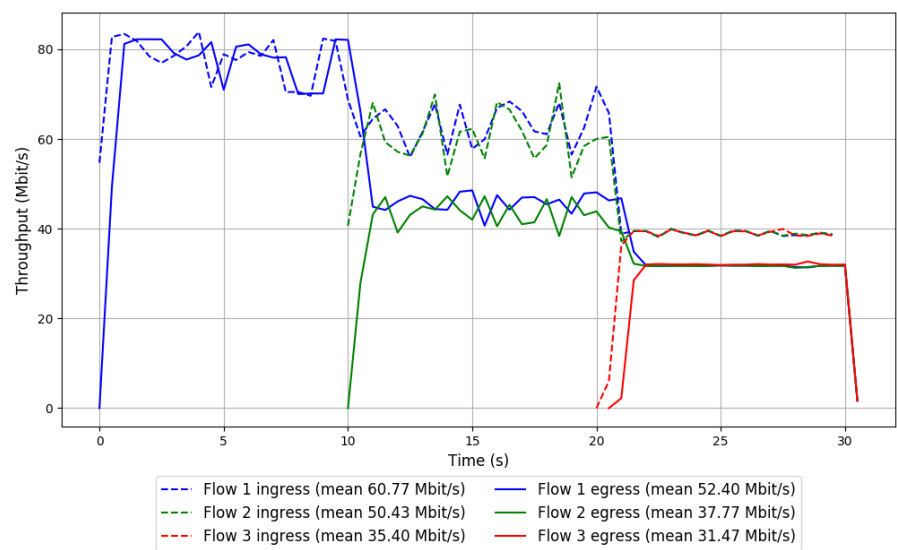
-- Flow 3:

Average throughput: 31.47 Mbit/s

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

Loss rate: 18.18%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-24 15:01:52

End at: 2018-05-24 15:02:22

Local clock offset: -0.228 ms

Remote clock offset: 4.063 ms

Below is generated by plot.py at 2018-05-24 17:41:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.46 Mbit/s

95th percentile per-packet one-way delay: 63.494 ms

Loss rate: 18.39%

-- Flow 1:

Average throughput: 53.37 Mbit/s

95th percentile per-packet one-way delay: 59.990 ms

Loss rate: 13.84%

-- Flow 2:

Average throughput: 36.92 Mbit/s

95th percentile per-packet one-way delay: 65.247 ms

Loss rate: 26.88%

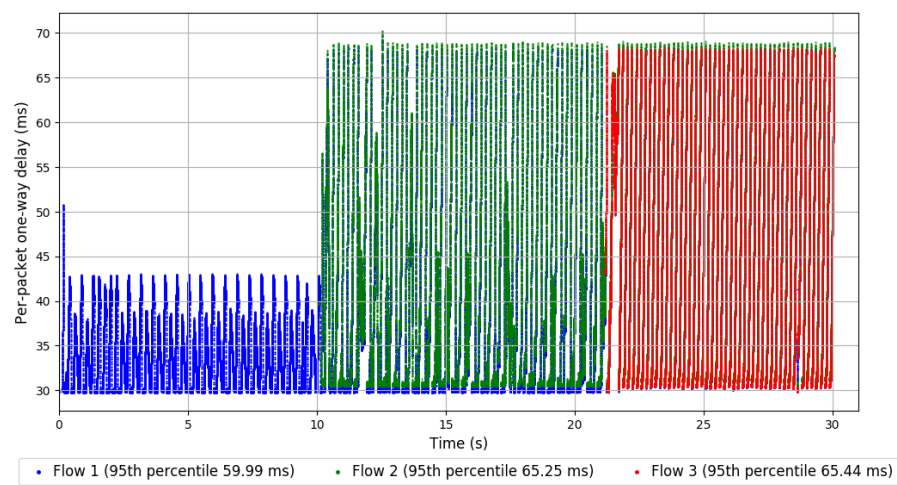
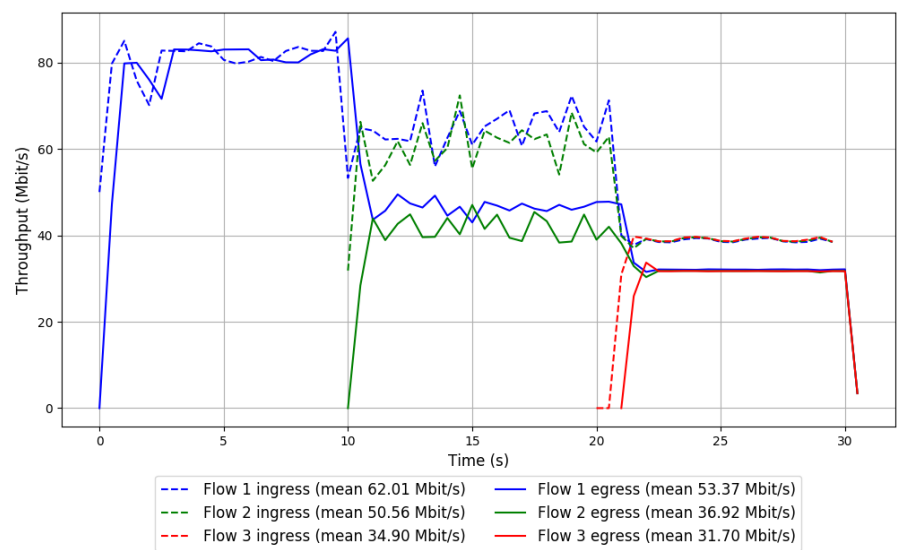
-- Flow 3:

Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 65.441 ms

Loss rate: 18.02%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-24 15:23:10

End at: 2018-05-24 15:23:40

Local clock offset: 0.239 ms

Remote clock offset: 4.797 ms

Below is generated by plot.py at 2018-05-24 17:41:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.98 Mbit/s

95th percentile per-packet one-way delay: 64.105 ms

Loss rate: 17.98%

-- Flow 1:

Average throughput: 51.34 Mbit/s

95th percentile per-packet one-way delay: 61.224 ms

Loss rate: 13.79%

-- Flow 2:

Average throughput: 37.83 Mbit/s

95th percentile per-packet one-way delay: 65.452 ms

Loss rate: 25.09%

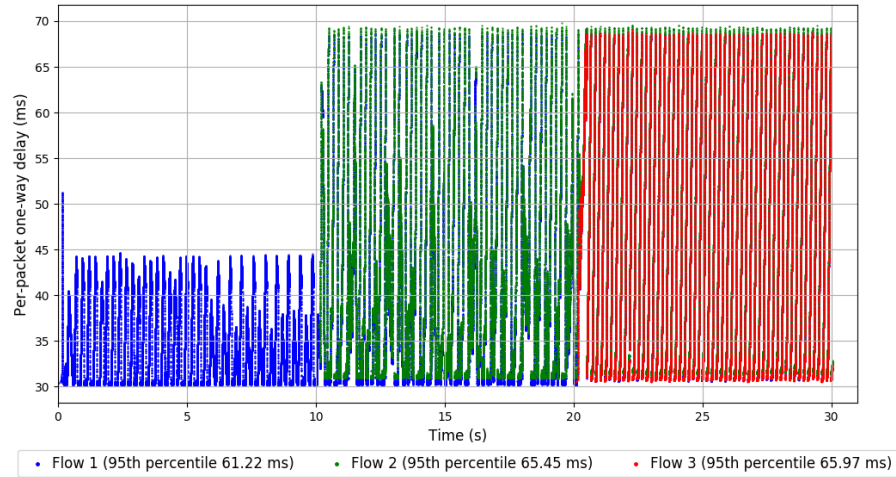
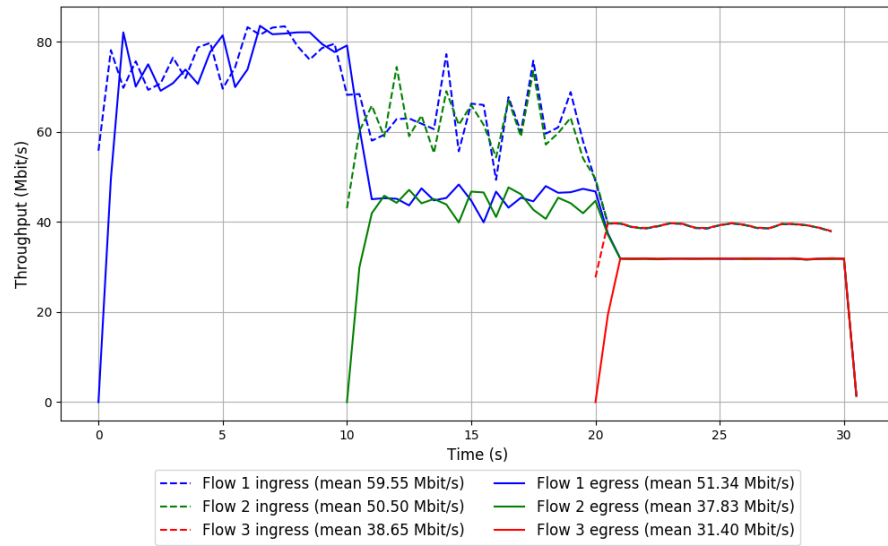
-- Flow 3:

Average throughput: 31.40 Mbit/s

95th percentile per-packet one-way delay: 65.975 ms

Loss rate: 18.74%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-24 15:44:26

End at: 2018-05-24 15:44:56

Local clock offset: 0.428 ms

Remote clock offset: 4.066 ms

Below is generated by plot.py at 2018-05-24 17:41:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.21 Mbit/s

95th percentile per-packet one-way delay: 62.041 ms

Loss rate: 20.84%

-- Flow 1:

Average throughput: 54.91 Mbit/s

95th percentile per-packet one-way delay: 59.262 ms

Loss rate: 16.87%

-- Flow 2:

Average throughput: 43.15 Mbit/s

95th percentile per-packet one-way delay: 64.654 ms

Loss rate: 27.39%

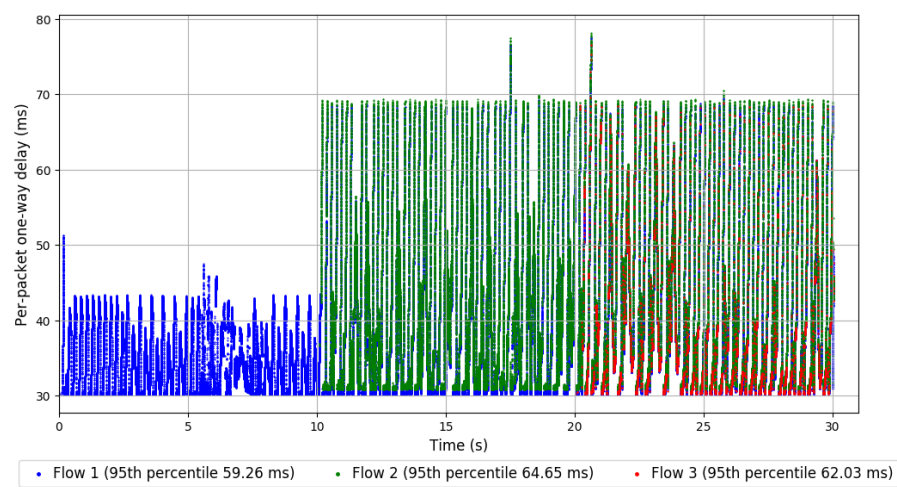
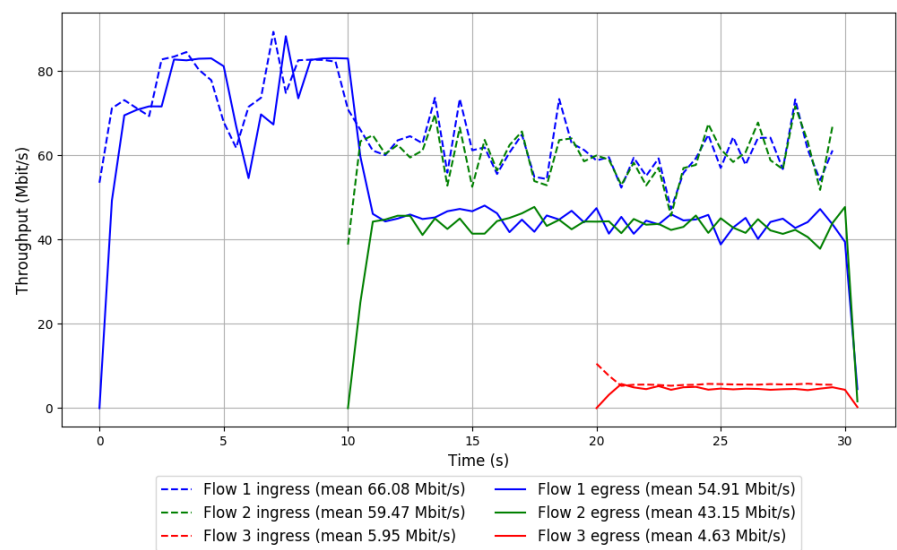
-- Flow 3:

Average throughput: 4.63 Mbit/s

95th percentile per-packet one-way delay: 62.033 ms

Loss rate: 22.11%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-24 16:05:41

End at: 2018-05-24 16:06:11

Local clock offset: 0.118 ms

Remote clock offset: 1.547 ms

Below is generated by plot.py at 2018-05-24 17:41:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.91 Mbit/s

95th percentile per-packet one-way delay: 61.104 ms

Loss rate: 18.68%

-- Flow 1:

Average throughput: 53.47 Mbit/s

95th percentile per-packet one-way delay: 59.058 ms

Loss rate: 14.53%

-- Flow 2:

Average throughput: 39.26 Mbit/s

95th percentile per-packet one-way delay: 62.270 ms

Loss rate: 25.99%

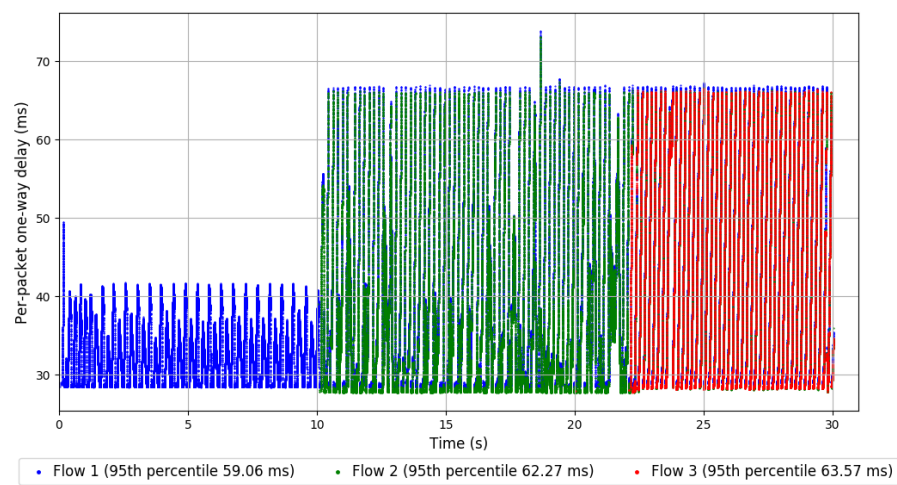
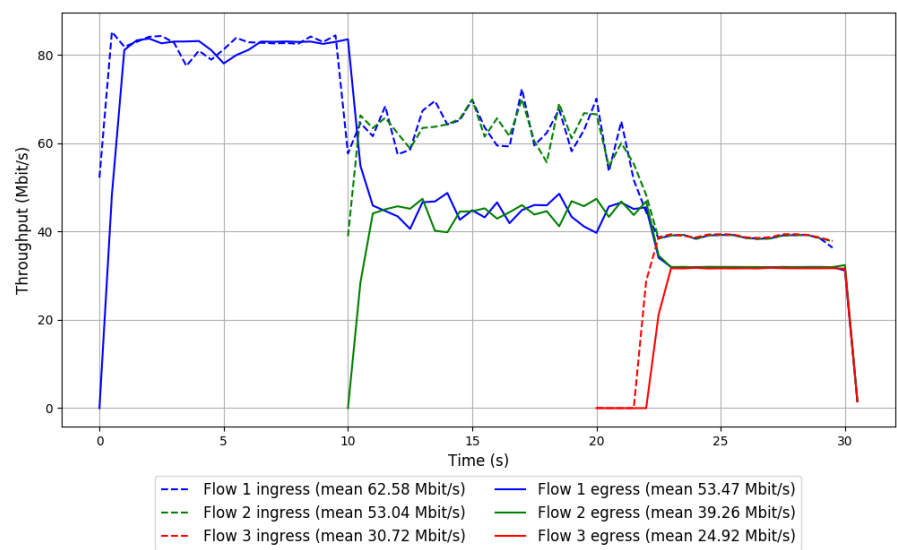
-- Flow 3:

Average throughput: 24.92 Mbit/s

95th percentile per-packet one-way delay: 63.569 ms

Loss rate: 18.82%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-24 16:26:57

End at: 2018-05-24 16:27:27

Local clock offset: -0.007 ms

Remote clock offset: 3.301 ms

Below is generated by plot.py at 2018-05-24 17:41:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.09 Mbit/s

95th percentile per-packet one-way delay: 63.849 ms

Loss rate: 17.86%

-- Flow 1:

Average throughput: 50.15 Mbit/s

95th percentile per-packet one-way delay: 61.264 ms

Loss rate: 13.74%

-- Flow 2:

Average throughput: 38.27 Mbit/s

95th percentile per-packet one-way delay: 64.781 ms

Loss rate: 24.72%

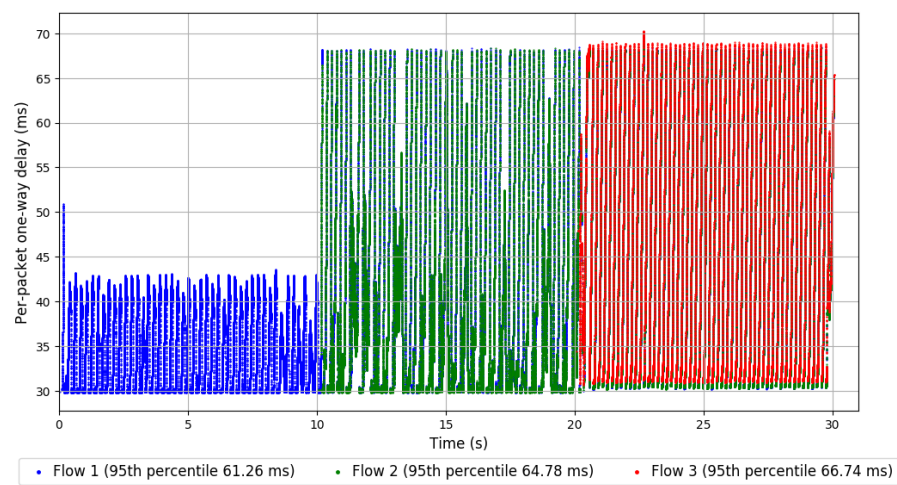
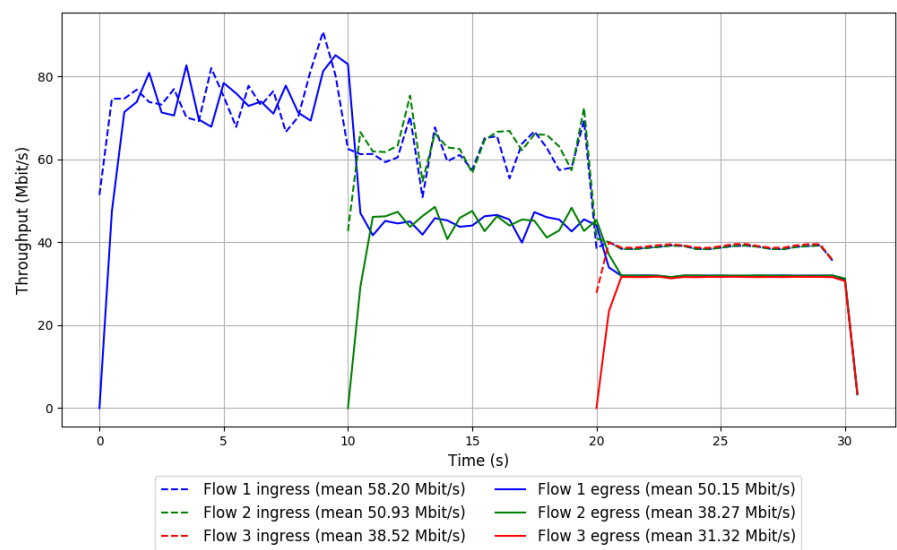
-- Flow 3:

Average throughput: 31.32 Mbit/s

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

Loss rate: 18.43%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-24 16:48:10

End at: 2018-05-24 16:48:40

Local clock offset: 0.224 ms

Remote clock offset: 0.951 ms

Below is generated by plot.py at 2018-05-24 17:43:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.68 Mbit/s

95th percentile per-packet one-way delay: 62.052 ms

Loss rate: 18.25%

-- Flow 1:

Average throughput: 49.54 Mbit/s

95th percentile per-packet one-way delay: 59.940 ms

Loss rate: 14.84%

-- Flow 2:

Average throughput: 39.00 Mbit/s

95th percentile per-packet one-way delay: 62.480 ms

Loss rate: 23.84%

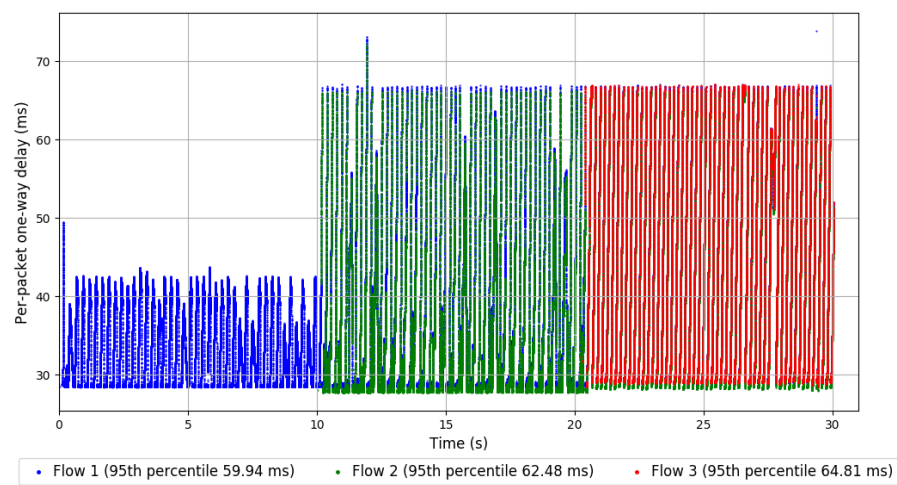
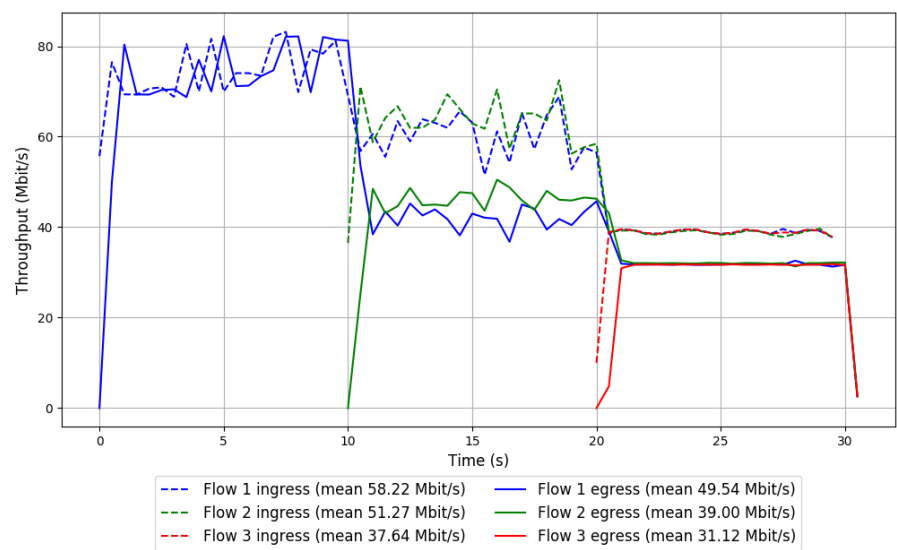
-- Flow 3:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 64.813 ms

Loss rate: 18.83%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-24 17:09:28

End at: 2018-05-24 17:09:58

Local clock offset: 0.148 ms

Remote clock offset: 0.511 ms

Below is generated by plot.py at 2018-05-24 17:43:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.21 Mbit/s

95th percentile per-packet one-way delay: 58.284 ms

Loss rate: 18.99%

-- Flow 1:

Average throughput: 54.70 Mbit/s

95th percentile per-packet one-way delay: 57.000 ms

Loss rate: 15.80%

-- Flow 2:

Average throughput: 44.04 Mbit/s

95th percentile per-packet one-way delay: 60.253 ms

Loss rate: 24.63%

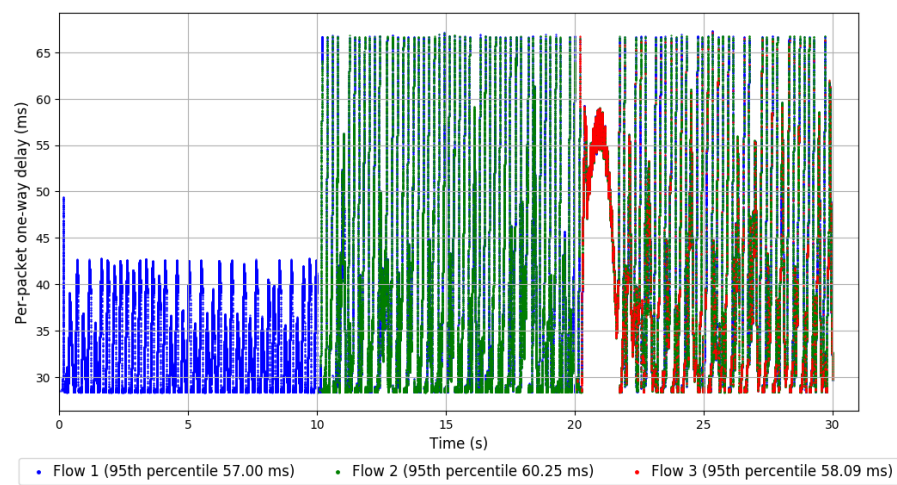
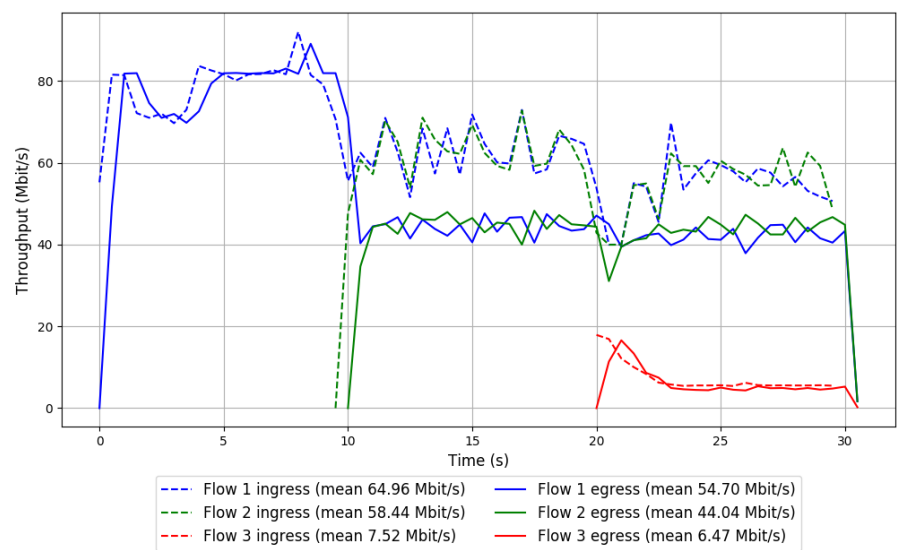
-- Flow 3:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 58.093 ms

Loss rate: 13.89%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-24 13:52:45

End at: 2018-05-24 13:53:15

Local clock offset: 1.717 ms

Remote clock offset: 3.024 ms

Below is generated by plot.py at 2018-05-24 17:43:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.63 Mbit/s

95th percentile per-packet one-way delay: 46.576 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 34.64 Mbit/s

95th percentile per-packet one-way delay: 47.067 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 55.16 Mbit/s

95th percentile per-packet one-way delay: 44.467 ms

Loss rate: 0.42%

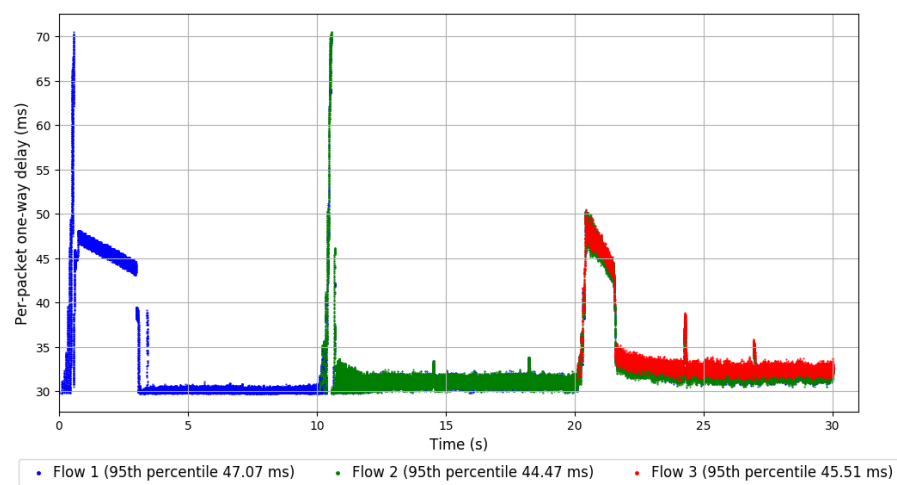
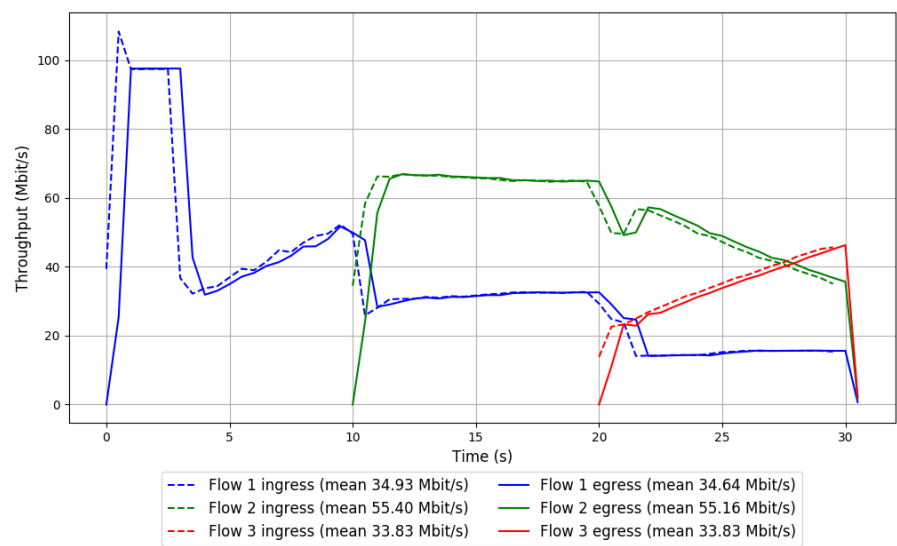
-- Flow 3:

Average throughput: 33.83 Mbit/s

95th percentile per-packet one-way delay: 45.511 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-24 14:14:01

End at: 2018-05-24 14:14:31

Local clock offset: -0.1 ms

Remote clock offset: 3.132 ms

Below is generated by plot.py at 2018-05-24 17:43:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.08 Mbit/s

95th percentile per-packet one-way delay: 64.028 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 30.60 Mbit/s

95th percentile per-packet one-way delay: 45.394 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 63.22 Mbit/s

95th percentile per-packet one-way delay: 64.795 ms

Loss rate: 0.61%

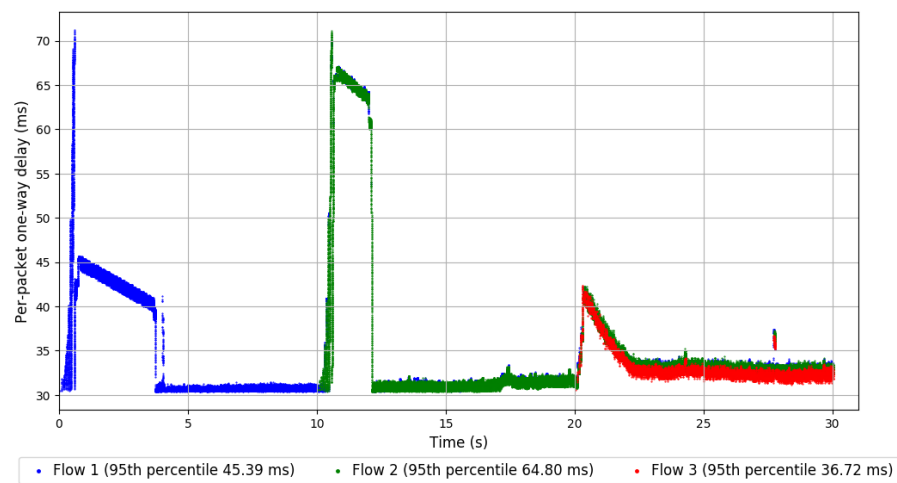
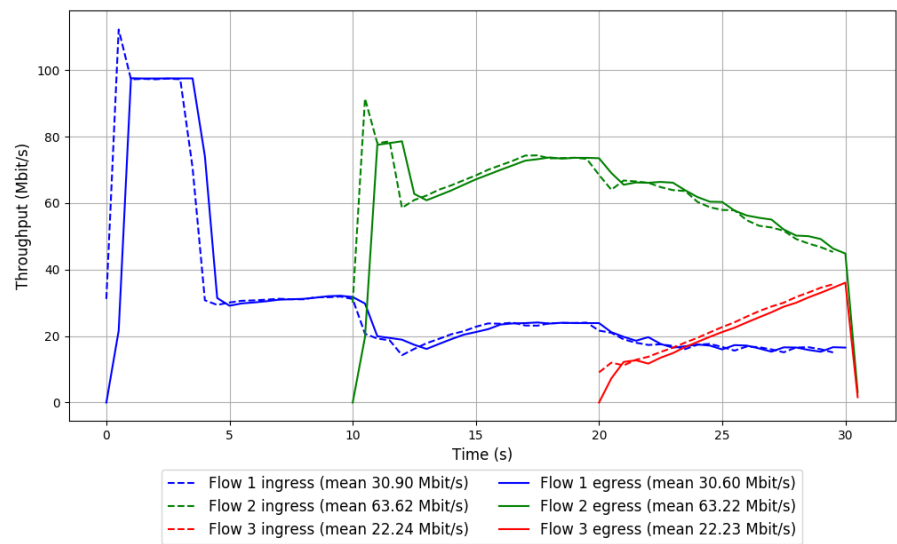
-- Flow 3:

Average throughput: 22.23 Mbit/s

95th percentile per-packet one-way delay: 36.717 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-24 14:35:17

End at: 2018-05-24 14:35:47

Local clock offset: -0.607 ms

Remote clock offset: 1.514 ms

Below is generated by plot.py at 2018-05-24 17:43:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 53.786 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 64.73 Mbit/s

95th percentile per-packet one-way delay: 50.371 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 16.71 Mbit/s

95th percentile per-packet one-way delay: 55.008 ms

Loss rate: 0.06%

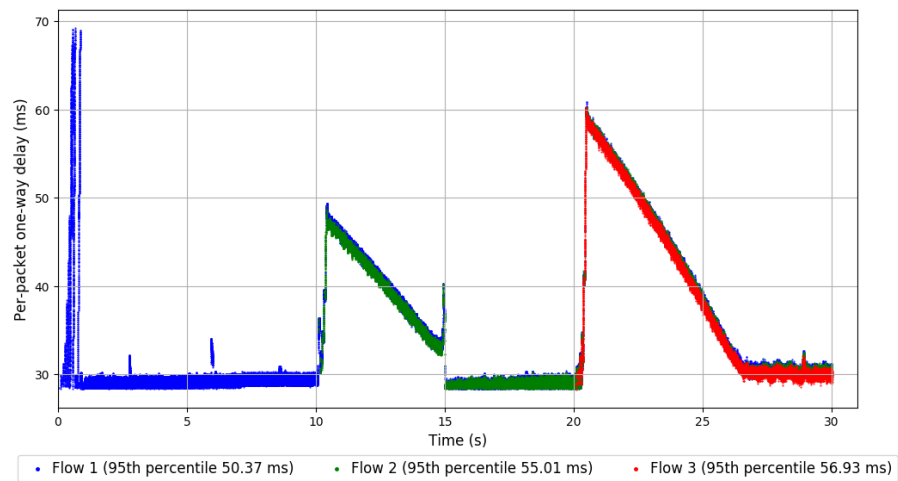
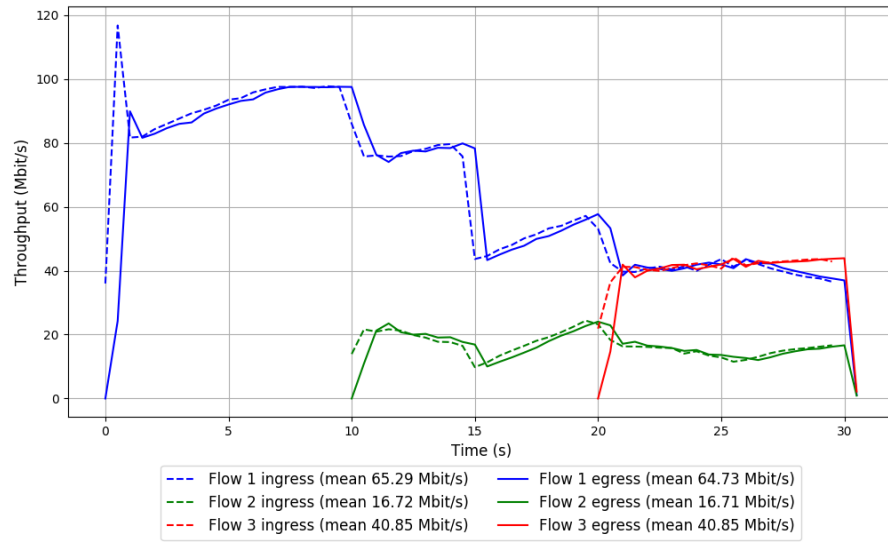
-- Flow 3:

Average throughput: 40.85 Mbit/s

95th percentile per-packet one-way delay: 56.932 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-24 14:56:32

End at: 2018-05-24 14:57:02

Local clock offset: -0.824 ms

Remote clock offset: 4.03 ms

Below is generated by plot.py at 2018-05-24 17:43:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.53 Mbit/s

95th percentile per-packet one-way delay: 45.792 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 33.20 Mbit/s

95th percentile per-packet one-way delay: 46.286 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 25.26 Mbit/s

95th percentile per-packet one-way delay: 36.256 ms

Loss rate: 0.68%

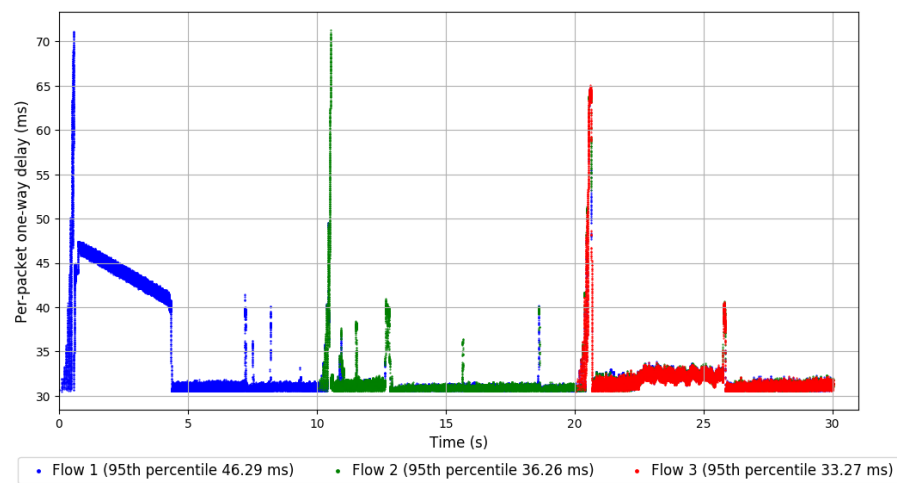
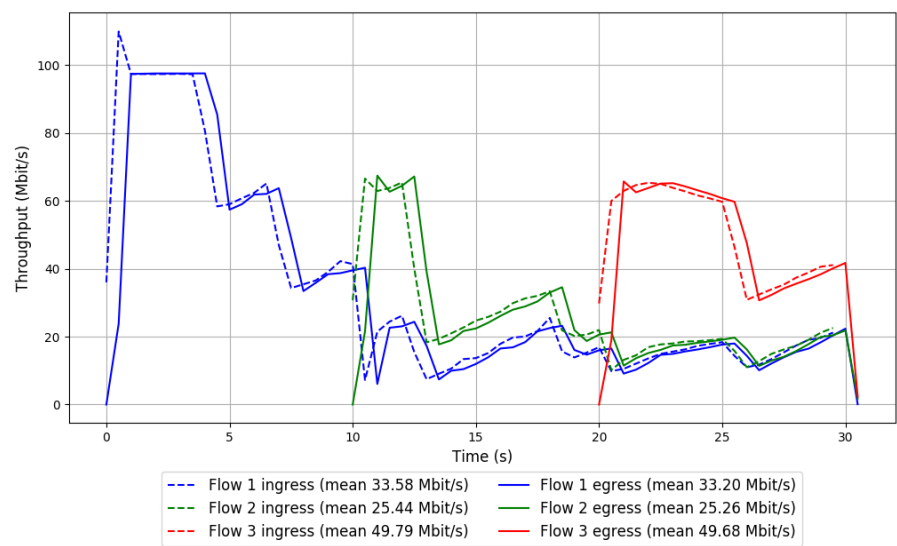
-- Flow 3:

Average throughput: 49.68 Mbit/s

95th percentile per-packet one-way delay: 33.271 ms

Loss rate: 0.22%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-24 15:17:50

End at: 2018-05-24 15:18:20

Local clock offset: 0.181 ms

Remote clock offset: 2.131 ms

Below is generated by plot.py at 2018-05-24 17:43:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.59 Mbit/s

95th percentile per-packet one-way delay: 47.514 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 53.63 Mbit/s

95th percentile per-packet one-way delay: 48.412 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 40.45 Mbit/s

95th percentile per-packet one-way delay: 33.978 ms

Loss rate: 0.32%

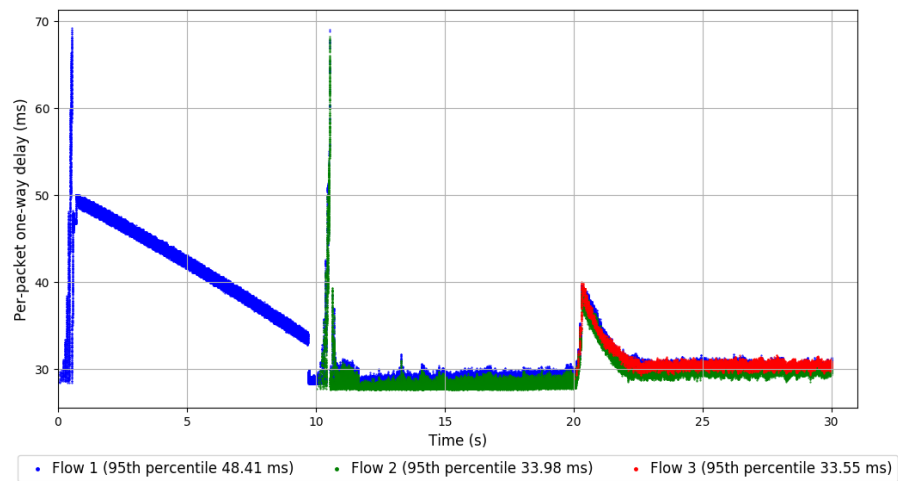
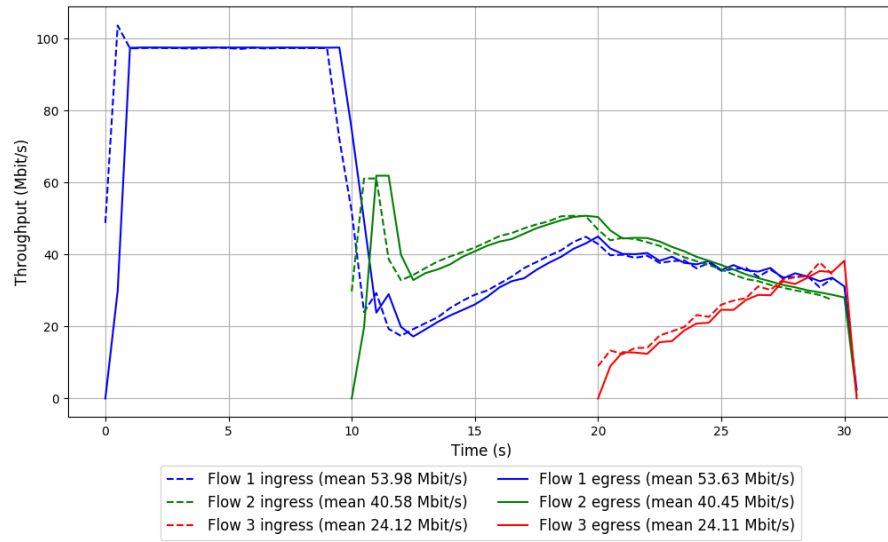
-- Flow 3:

Average throughput: 24.11 Mbit/s

95th percentile per-packet one-way delay: 33.552 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-24 15:39:07

End at: 2018-05-24 15:39:37

Local clock offset: 0.4 ms

Remote clock offset: 1.9 ms

Below is generated by plot.py at 2018-05-24 17:43:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.69 Mbit/s

95th percentile per-packet one-way delay: 58.468 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 52.39 Mbit/s

95th percentile per-packet one-way delay: 43.929 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 58.000 ms

Loss rate: 0.18%

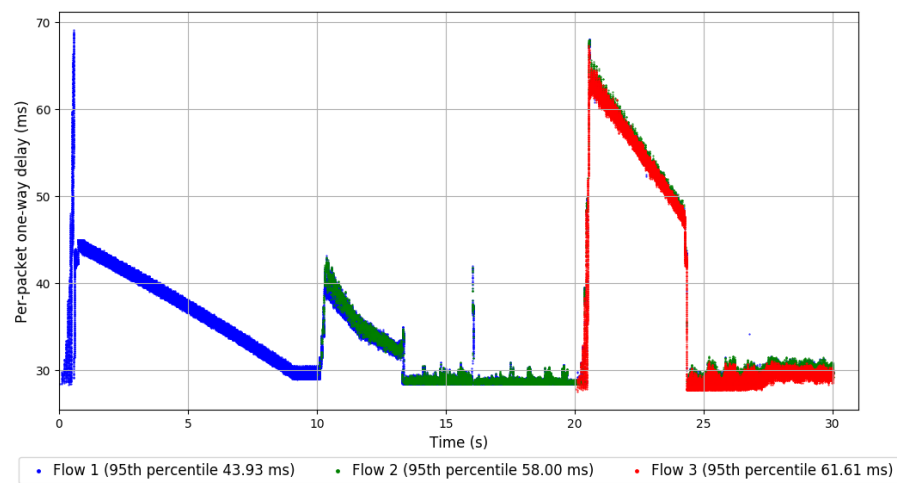
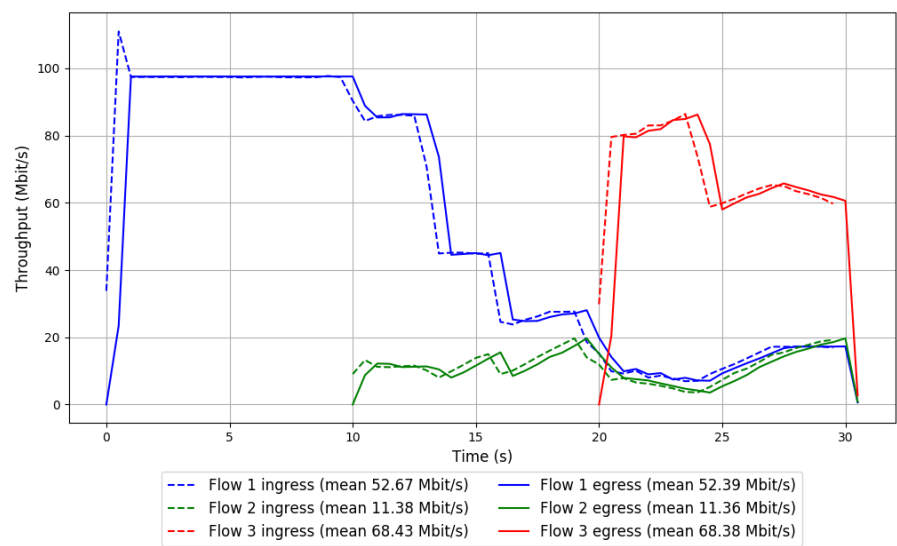
-- Flow 3:

Average throughput: 68.38 Mbit/s

95th percentile per-packet one-way delay: 61.613 ms

Loss rate: 0.06%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-24 16:00:22

End at: 2018-05-24 16:00:52

Local clock offset: 0.282 ms

Remote clock offset: 3.62 ms

Below is generated by plot.py at 2018-05-24 17:43:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.67 Mbit/s

95th percentile per-packet one-way delay: 49.173 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 57.00 Mbit/s

95th percentile per-packet one-way delay: 49.841 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 22.36 Mbit/s

95th percentile per-packet one-way delay: 43.160 ms

Loss rate: 0.16%

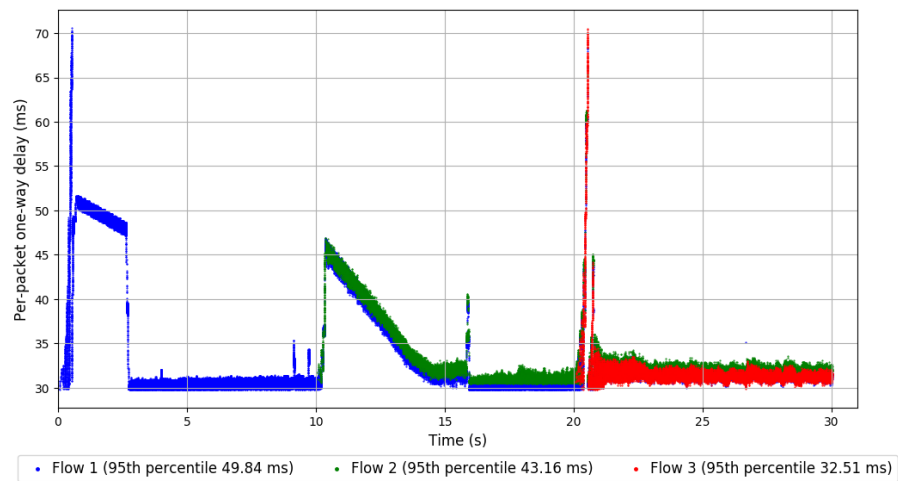
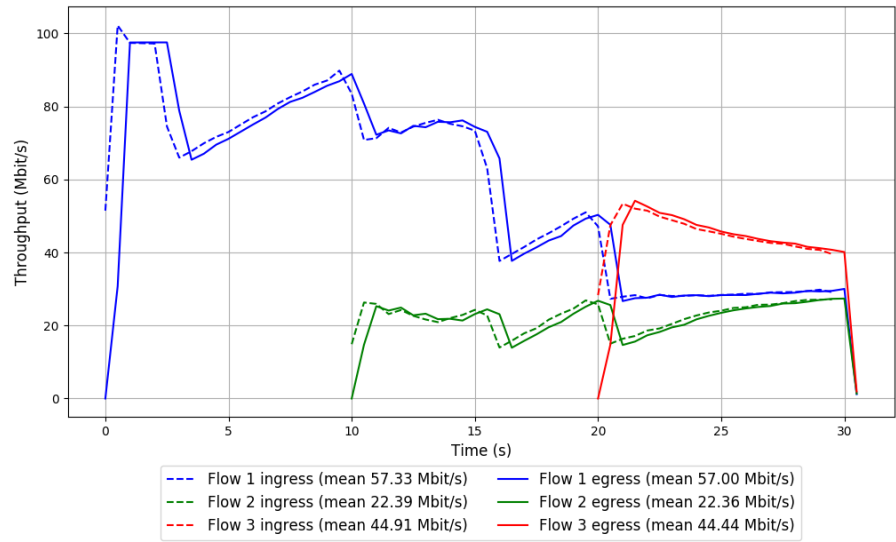
-- Flow 3:

Average throughput: 44.44 Mbit/s

95th percentile per-packet one-way delay: 32.514 ms

Loss rate: 1.03%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-24 16:21:38

End at: 2018-05-24 16:22:08

Local clock offset: -0.12 ms

Remote clock offset: 3.281 ms

Below is generated by plot.py at 2018-05-24 17:43:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.96 Mbit/s

95th percentile per-packet one-way delay: 48.818 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 41.42 Mbit/s

95th percentile per-packet one-way delay: 49.472 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 30.53 Mbit/s

95th percentile per-packet one-way delay: 34.542 ms

Loss rate: 0.59%

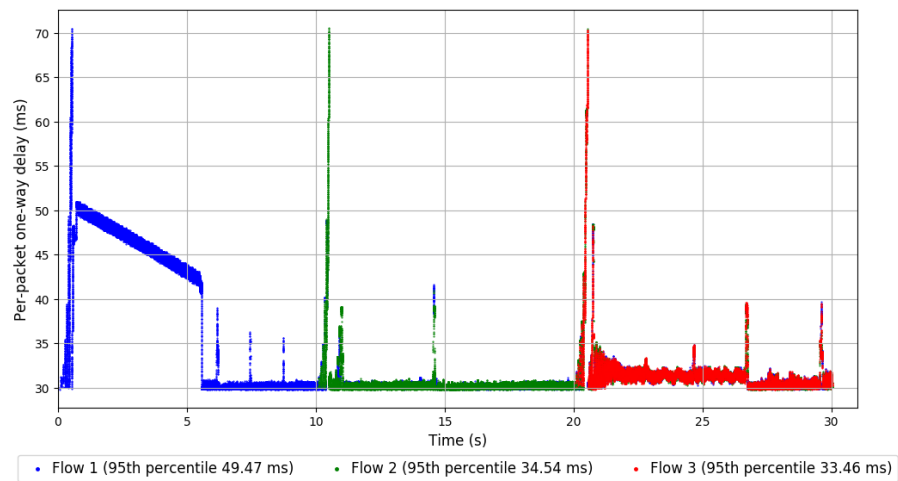
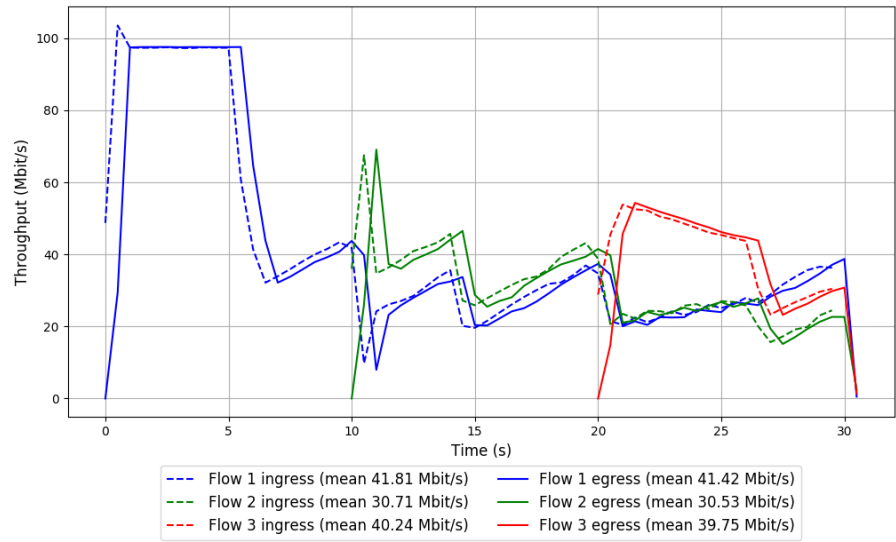
-- Flow 3:

Average throughput: 39.75 Mbit/s

95th percentile per-packet one-way delay: 33.459 ms

Loss rate: 1.22%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-24 16:42:51

End at: 2018-05-24 16:43:21

Local clock offset: 0.113 ms

Remote clock offset: 3.381 ms

Below is generated by plot.py at 2018-05-24 17:43:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.00 Mbit/s

95th percentile per-packet one-way delay: 55.487 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 51.13 Mbit/s

95th percentile per-packet one-way delay: 55.159 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 26.58 Mbit/s

95th percentile per-packet one-way delay: 56.450 ms

Loss rate: 0.04%

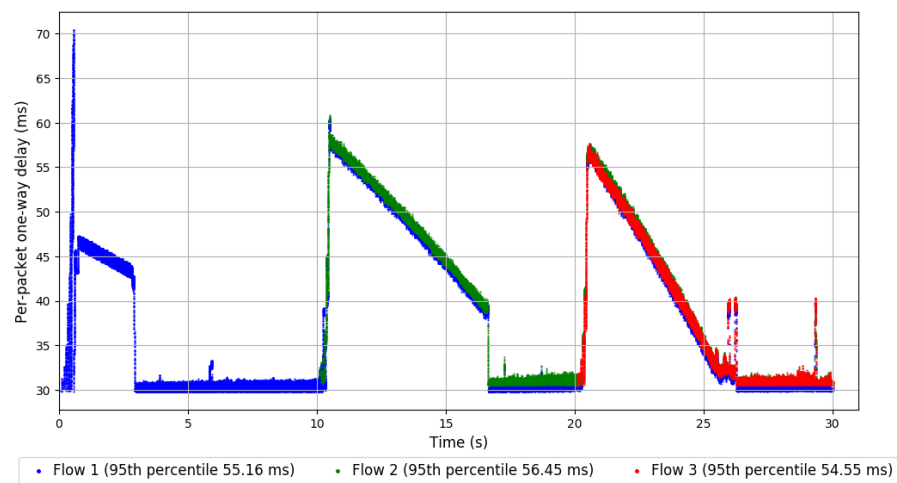
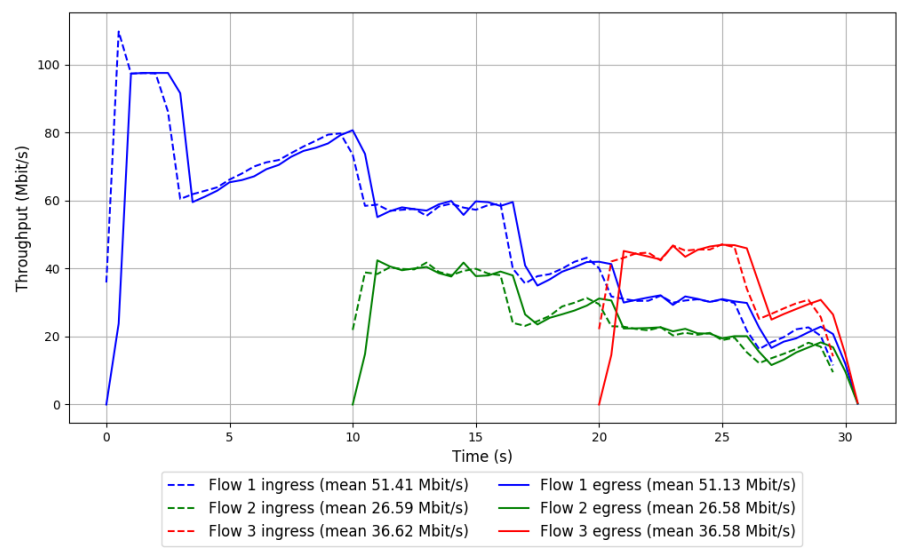
-- Flow 3:

Average throughput: 36.58 Mbit/s

95th percentile per-packet one-way delay: 54.546 ms

Loss rate: 0.12%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-24 17:04:07

End at: 2018-05-24 17:04:37

Local clock offset: 0.089 ms

Remote clock offset: 0.603 ms

Below is generated by plot.py at 2018-05-24 17:43:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.64 Mbit/s

95th percentile per-packet one-way delay: 52.368 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 29.94 Mbit/s

95th percentile per-packet one-way delay: 46.055 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 82.45 Mbit/s

95th percentile per-packet one-way delay: 53.381 ms

Loss rate: 0.46%

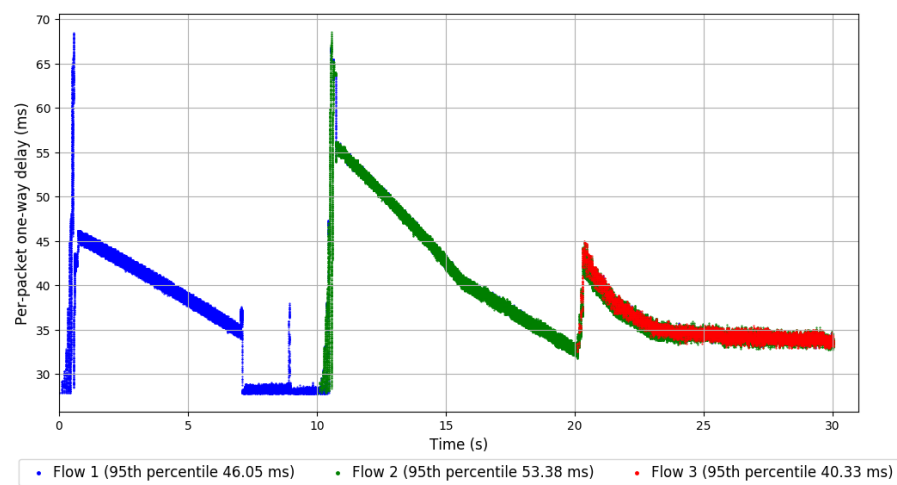
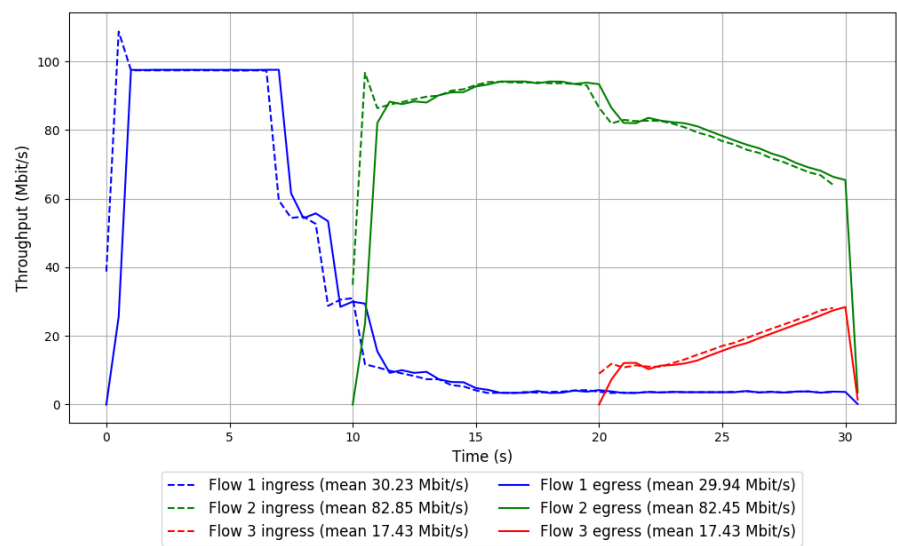
-- Flow 3:

Average throughput: 17.43 Mbit/s

95th percentile per-packet one-way delay: 40.331 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-24 14:04:48

End at: 2018-05-24 14:05:18

Local clock offset: 0.477 ms

Remote clock offset: 0.971 ms

Run 1: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Verus

Start at: 2018-05-24 14:26:04

End at: 2018-05-24 14:26:34

Local clock offset: -0.539 ms

Remote clock offset: 3.246 ms

Run 2: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Verus

Start at: 2018-05-24 14:47:21

End at: 2018-05-24 14:47:51

Local clock offset: -0.788 ms

Remote clock offset: 1.702 ms

Run 3: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Verus

Start at: 2018-05-24 15:08:37

End at: 2018-05-24 15:09:07

Local clock offset: 0.111 ms

Remote clock offset: 4.135 ms

Run 4: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Verus

Start at: 2018-05-24 15:29:54

End at: 2018-05-24 15:30:24

Local clock offset: 0.381 ms

Remote clock offset: 2.341 ms

Run 5: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of Verus

Start at: 2018-05-24 15:51:10

End at: 2018-05-24 15:51:40

Local clock offset: 0.299 ms

Remote clock offset: 3.431 ms

Run 6: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of Verus

Start at: 2018-05-24 16:12:26

End at: 2018-05-24 16:12:56

Local clock offset: 0.075 ms

Remote clock offset: 3.428 ms

Run 7: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Verus

Start at: 2018-05-24 16:33:41

End at: 2018-05-24 16:34:11

Local clock offset: 0.185 ms

Remote clock offset: 3.253 ms

Run 8: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Verus

Start at: 2018-05-24 16:54:54

End at: 2018-05-24 16:55:24

Local clock offset: 0.262 ms

Remote clock offset: 0.728 ms

Run 9: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Verus

Start at: 2018-05-24 17:16:11

End at: 2018-05-24 17:16:41

Local clock offset: 0.132 ms

Remote clock offset: 3.037 ms

Run 10: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of PCC-Vivace

Start at: 2018-05-24 13:59:28

End at: 2018-05-24 13:59:58

Local clock offset: 1.146 ms

Remote clock offset: 3.419 ms

Below is generated by plot.py at 2018-05-24 17:44:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.92 Mbit/s

95th percentile per-packet one-way delay: 36.668 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 65.36 Mbit/s

95th percentile per-packet one-way delay: 36.352 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 27.90 Mbit/s

95th percentile per-packet one-way delay: 37.198 ms

Loss rate: 0.11%

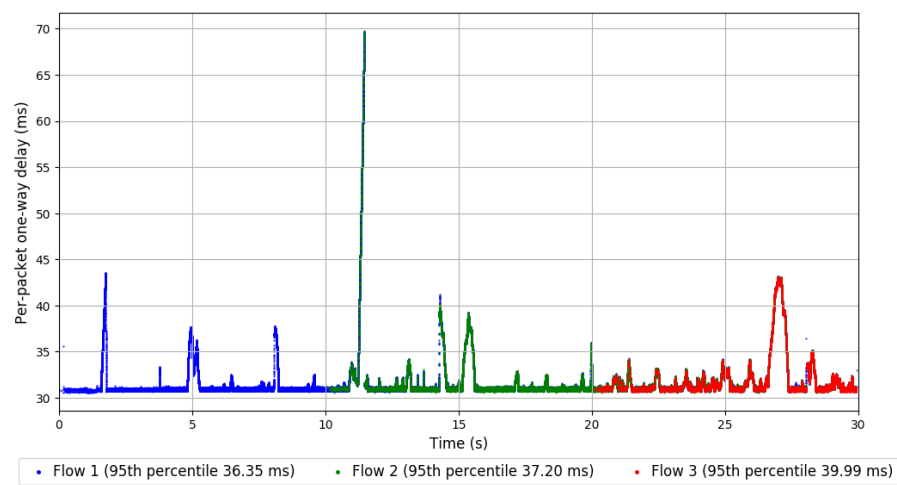
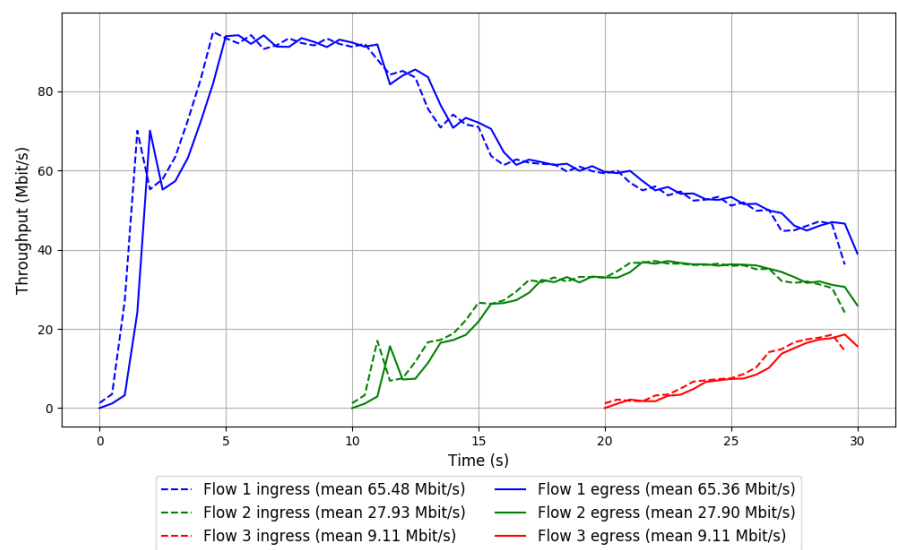
-- Flow 3:

Average throughput: 9.11 Mbit/s

95th percentile per-packet one-way delay: 39.986 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-24 14:20:44

End at: 2018-05-24 14:21:14

Local clock offset: -0.258 ms

Remote clock offset: 1.144 ms

Below is generated by plot.py at 2018-05-24 17:44:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.09 Mbit/s

95th percentile per-packet one-way delay: 36.794 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 63.23 Mbit/s

95th percentile per-packet one-way delay: 37.092 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 30.14 Mbit/s

95th percentile per-packet one-way delay: 36.355 ms

Loss rate: 0.43%

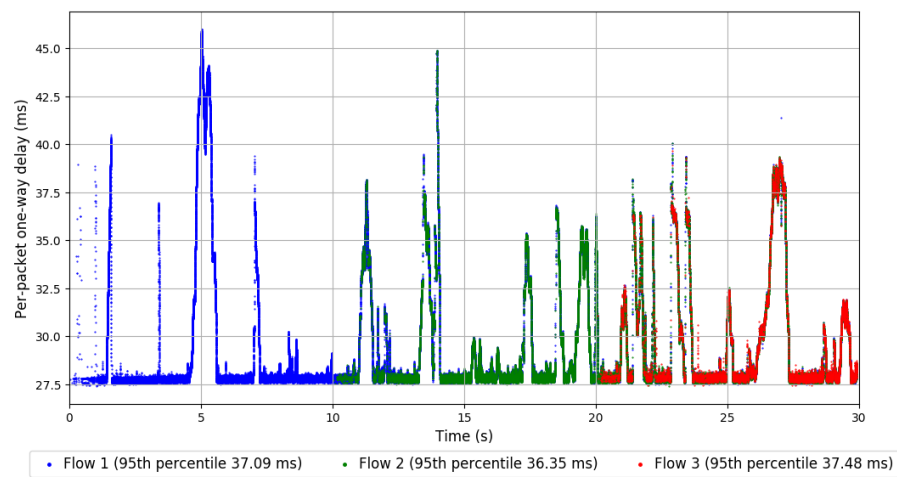
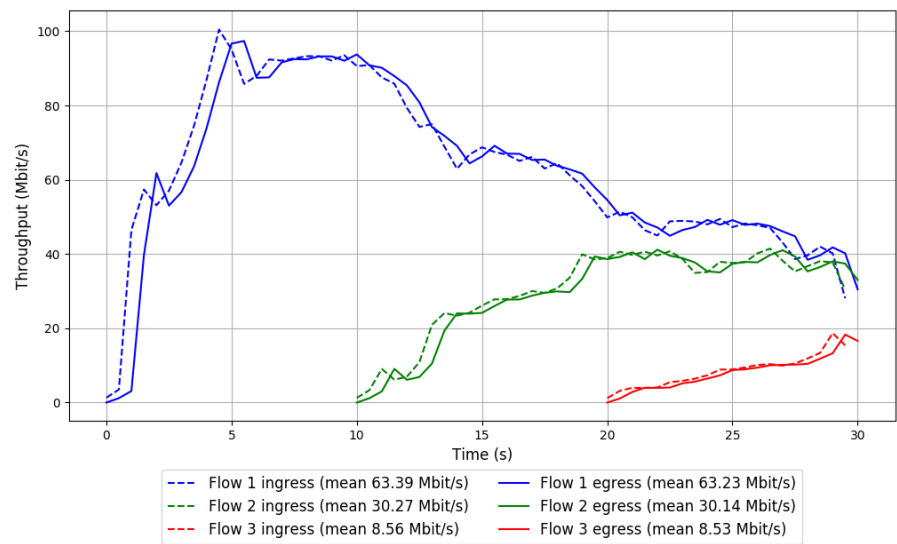
-- Flow 3:

Average throughput: 8.53 Mbit/s

95th percentile per-packet one-way delay: 37.475 ms

Loss rate: 0.28%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-24 14:42:00

End at: 2018-05-24 14:42:30

Local clock offset: -0.646 ms

Remote clock offset: 4.141 ms

Below is generated by plot.py at 2018-05-24 17:44:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 40.431 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 70.51 Mbit/s

95th percentile per-packet one-way delay: 39.966 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 40.811 ms

Loss rate: 0.64%

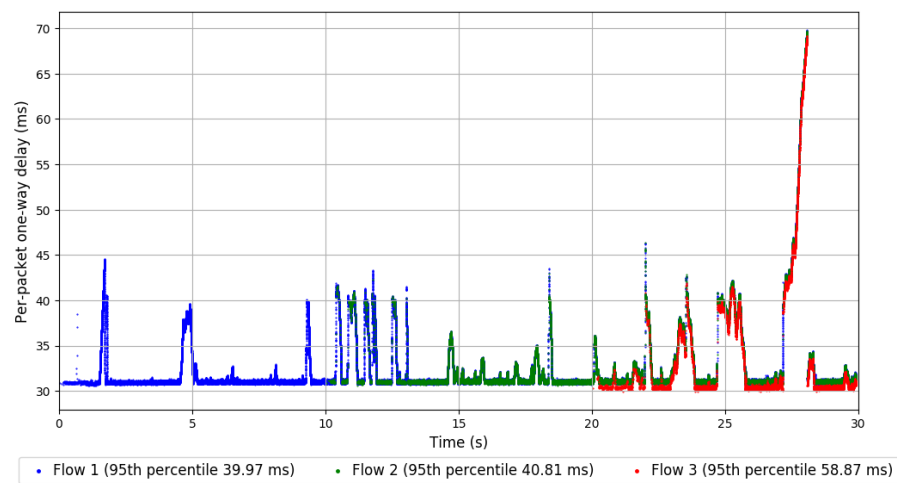
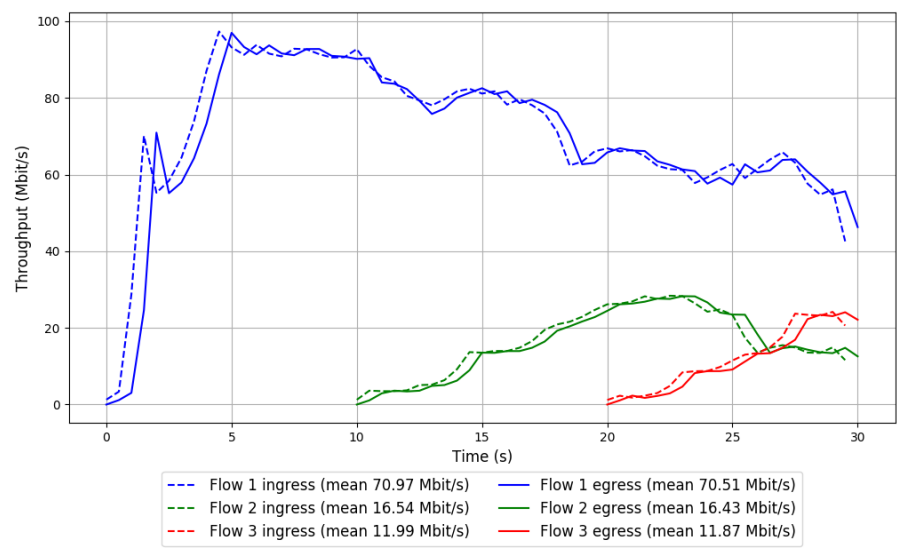
-- Flow 3:

Average throughput: 11.87 Mbit/s

95th percentile per-packet one-way delay: 58.868 ms

Loss rate: 1.01%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-24 15:03:16

End at: 2018-05-24 15:03:46

Local clock offset: -0.131 ms

Remote clock offset: 4.042 ms

Below is generated by plot.py at 2018-05-24 17:44:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.82 Mbit/s

95th percentile per-packet one-way delay: 44.845 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 68.33 Mbit/s

95th percentile per-packet one-way delay: 43.693 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 16.11 Mbit/s

95th percentile per-packet one-way delay: 47.082 ms

Loss rate: 0.40%

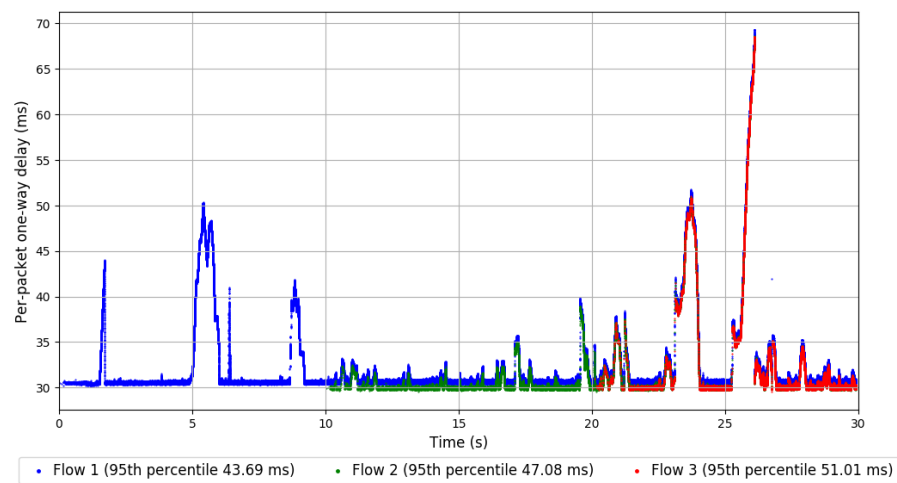
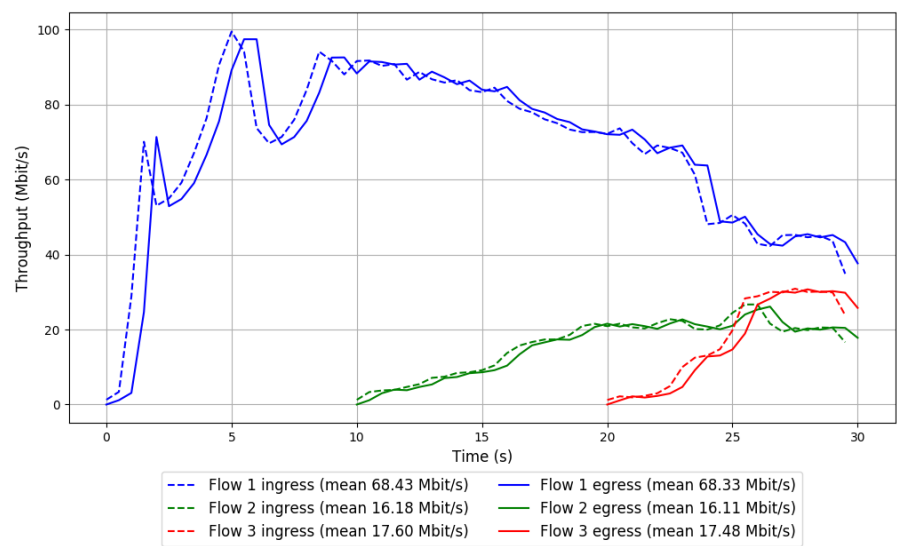
-- Flow 3:

Average throughput: 17.48 Mbit/s

95th percentile per-packet one-way delay: 51.008 ms

Loss rate: 0.69%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-24 15:24:34

End at: 2018-05-24 15:25:04

Local clock offset: 0.332 ms

Remote clock offset: 4.323 ms

Below is generated by plot.py at 2018-05-24 17:44:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.67 Mbit/s

95th percentile per-packet one-way delay: 52.923 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 50.96 Mbit/s

95th percentile per-packet one-way delay: 53.009 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 38.83 Mbit/s

95th percentile per-packet one-way delay: 55.269 ms

Loss rate: 0.19%

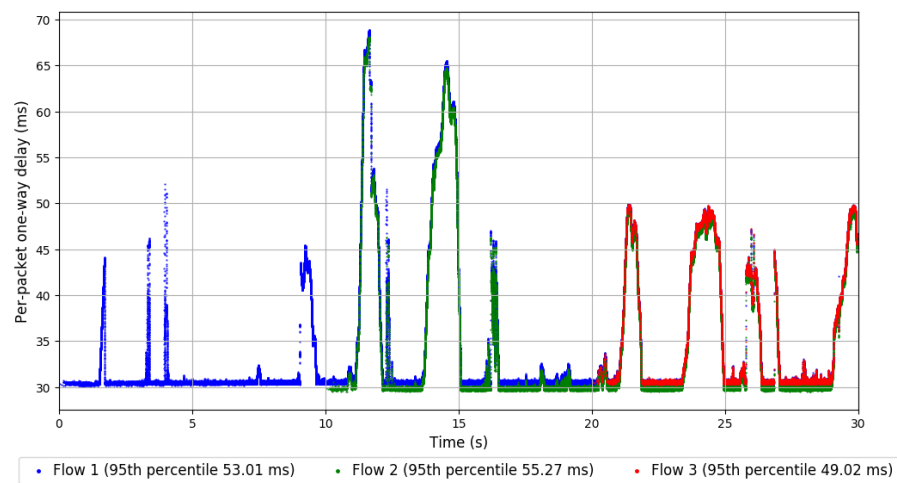
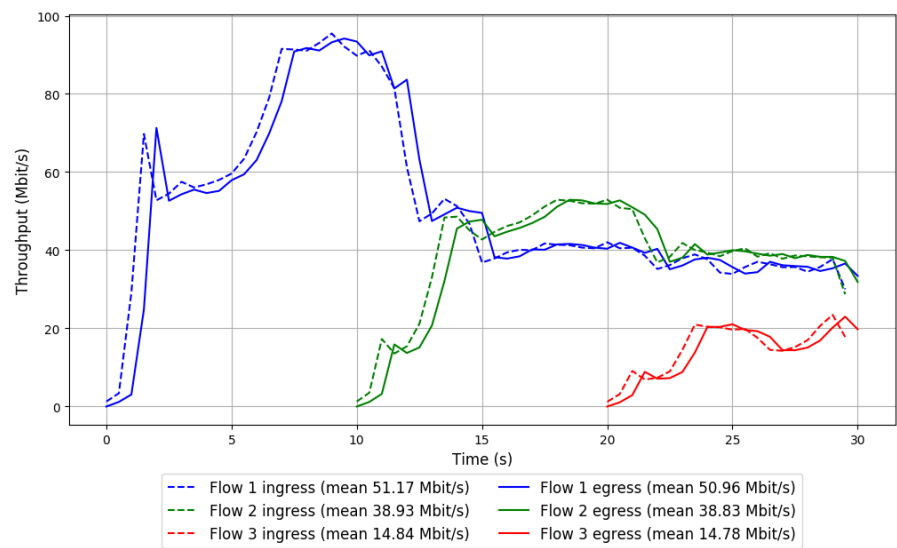
-- Flow 3:

Average throughput: 14.78 Mbit/s

95th percentile per-packet one-way delay: 49.023 ms

Loss rate: 0.25%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-24 15:45:50

End at: 2018-05-24 15:46:20

Local clock offset: 0.404 ms

Remote clock offset: 3.537 ms

Below is generated by plot.py at 2018-05-24 17:44:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.51 Mbit/s

95th percentile per-packet one-way delay: 41.065 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 62.91 Mbit/s

95th percentile per-packet one-way delay: 38.935 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 29.11 Mbit/s

95th percentile per-packet one-way delay: 42.492 ms

Loss rate: 0.29%

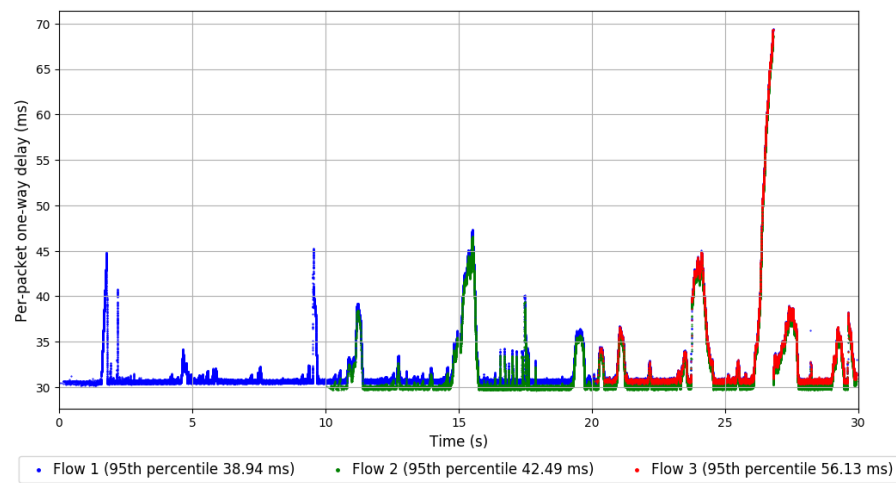
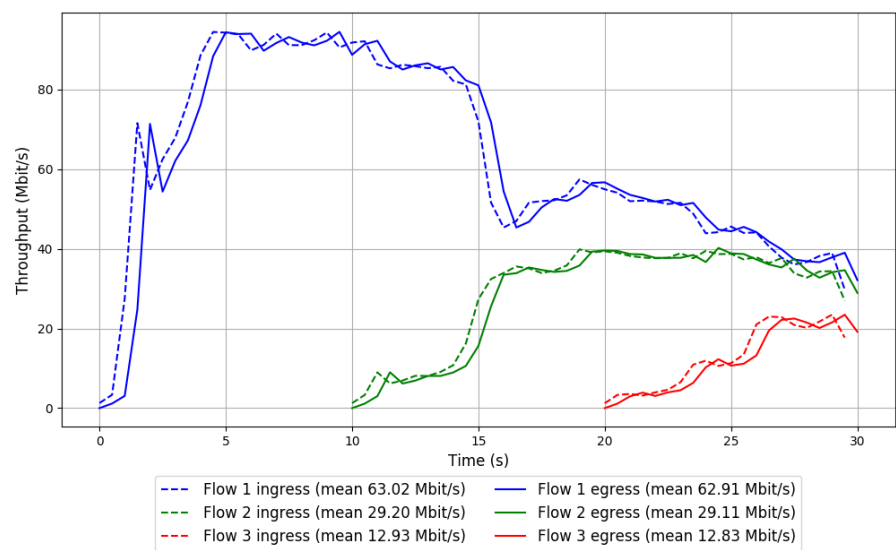
-- Flow 3:

Average throughput: 12.83 Mbit/s

95th percentile per-packet one-way delay: 56.132 ms

Loss rate: 0.77%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-24 16:07:05

End at: 2018-05-24 16:07:35

Local clock offset: 0.185 ms

Remote clock offset: 1.578 ms

Below is generated by plot.py at 2018-05-24 17:44:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.15 Mbit/s

95th percentile per-packet one-way delay: 41.356 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 63.16 Mbit/s

95th percentile per-packet one-way delay: 39.960 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 28.16 Mbit/s

95th percentile per-packet one-way delay: 44.348 ms

Loss rate: 0.10%

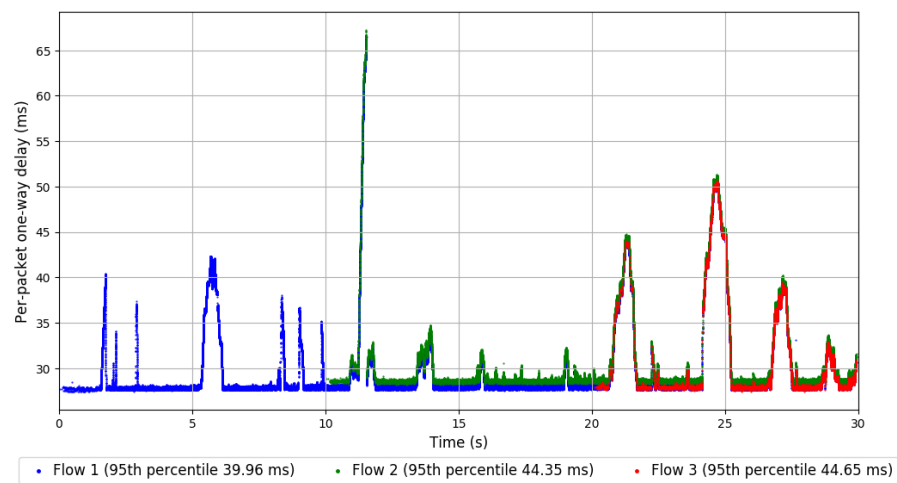
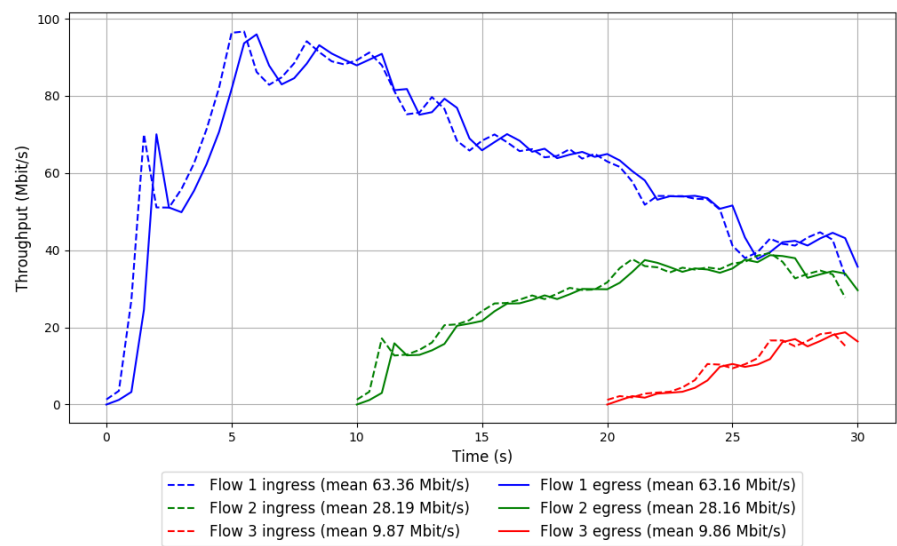
-- Flow 3:

Average throughput: 9.86 Mbit/s

95th percentile per-packet one-way delay: 44.649 ms

Loss rate: 0.04%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-24 16:28:21

End at: 2018-05-24 16:28:51

Local clock offset: -0.036 ms

Remote clock offset: 1.202 ms

Below is generated by plot.py at 2018-05-24 17:45:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.28 Mbit/s

95th percentile per-packet one-way delay: 32.898 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 67.61 Mbit/s

95th percentile per-packet one-way delay: 32.971 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 22.06 Mbit/s

95th percentile per-packet one-way delay: 32.569 ms

Loss rate: 0.02%

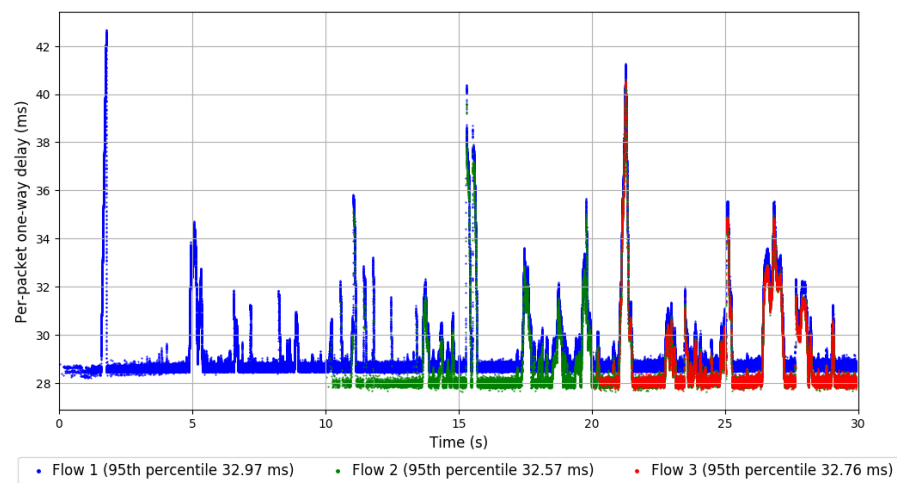
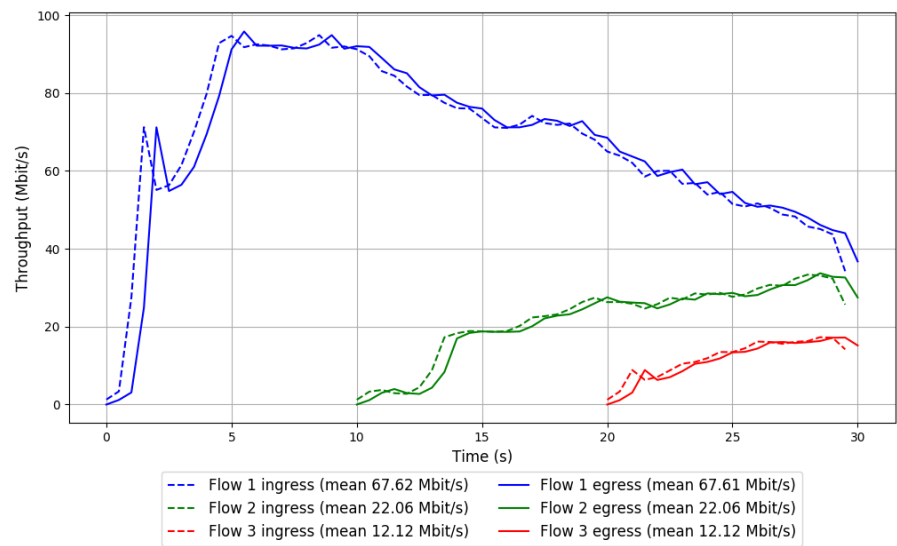
-- Flow 3:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 32.763 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-24 16:49:33

End at: 2018-05-24 16:50:03

Local clock offset: 0.136 ms

Remote clock offset: 3.379 ms

Below is generated by plot.py at 2018-05-24 17:45:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.00 Mbit/s

95th percentile per-packet one-way delay: 41.646 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 64.47 Mbit/s

95th percentile per-packet one-way delay: 39.800 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 22.15 Mbit/s

95th percentile per-packet one-way delay: 43.630 ms

Loss rate: 0.04%

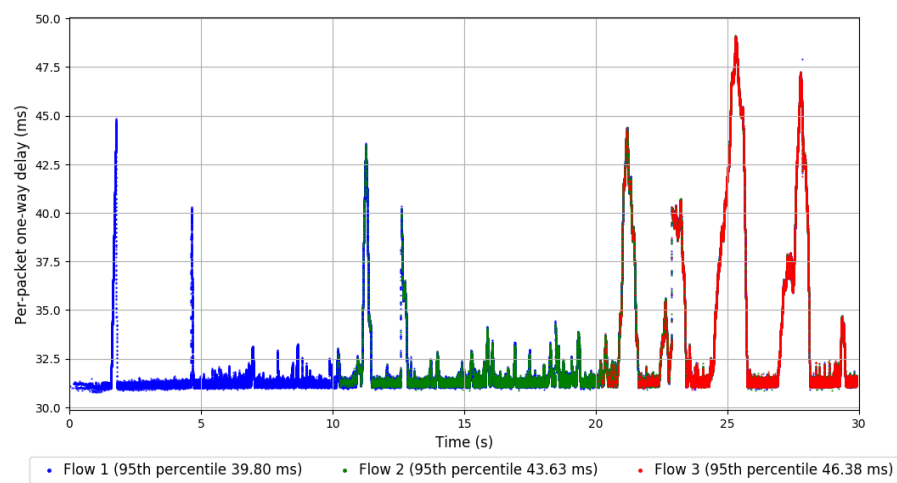
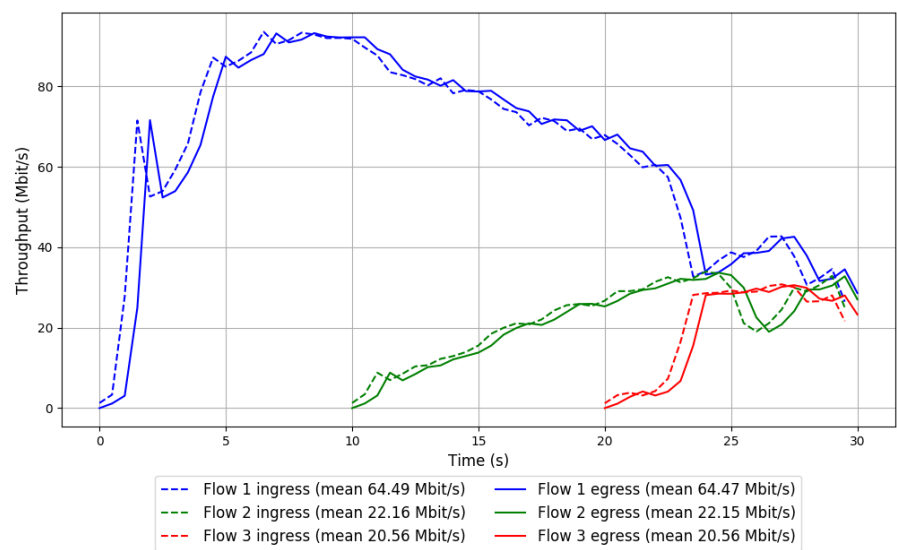
-- Flow 3:

Average throughput: 20.56 Mbit/s

95th percentile per-packet one-way delay: 46.380 ms

Loss rate: 0.02%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-24 17:10:51

End at: 2018-05-24 17:11:21

Local clock offset: 0.146 ms

Remote clock offset: 3.012 ms

Below is generated by plot.py at 2018-05-24 17:45:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.12 Mbit/s

95th percentile per-packet one-way delay: 40.575 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 67.37 Mbit/s

95th percentile per-packet one-way delay: 40.216 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 18.17 Mbit/s

95th percentile per-packet one-way delay: 39.234 ms

Loss rate: 0.17%

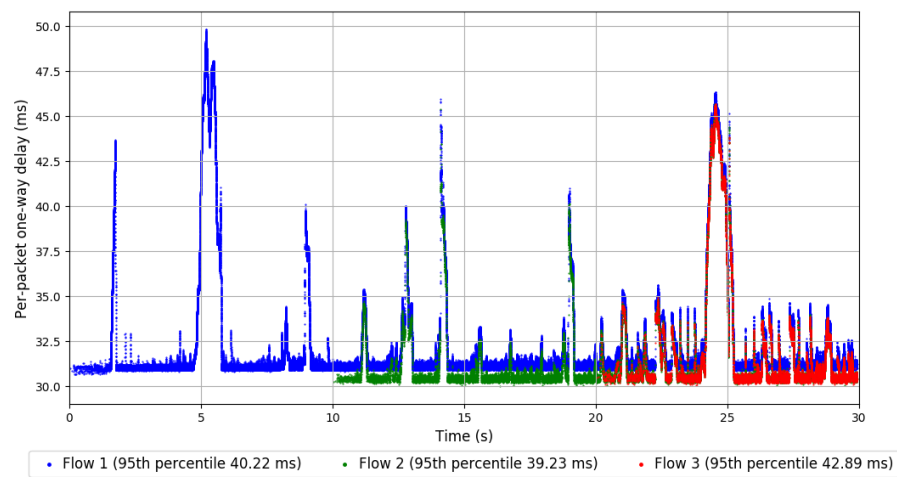
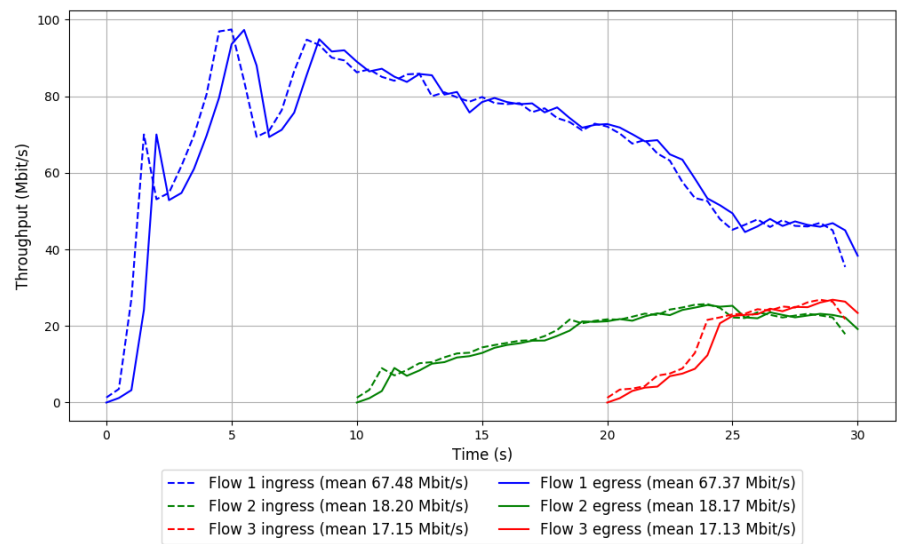
-- Flow 3:

Average throughput: 17.13 Mbit/s

95th percentile per-packet one-way delay: 42.887 ms

Loss rate: 0.13%

Run 10: Report of PCC-Vivace — Data Link

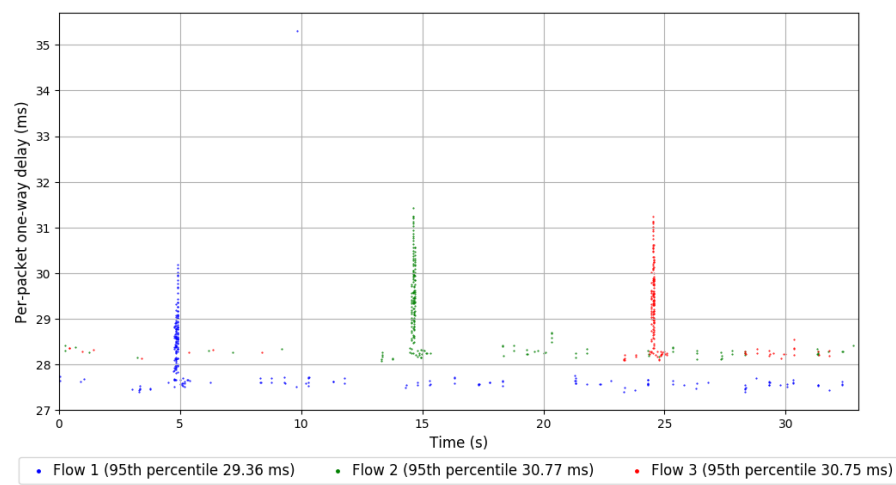
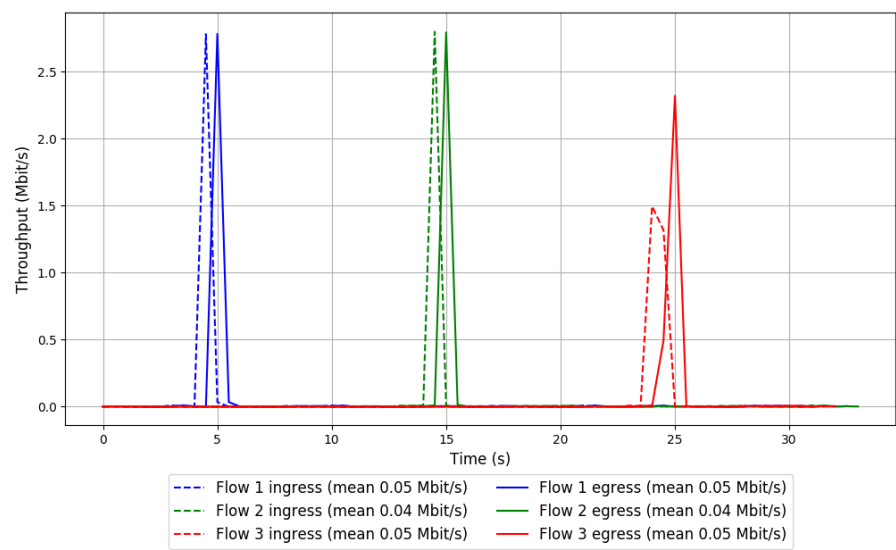


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-24 14:07:24
End at: 2018-05-24 14:07:54
Local clock offset: 0.354 ms
Remote clock offset: 1.016 ms

# Below is generated by plot.py at 2018-05-24 17:45:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 30.535 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 29.361 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 30.768 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 30.749 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-24 14:28:40

End at: 2018-05-24 14:29:10

Local clock offset: -0.447 ms

Remote clock offset: 3.423 ms

Below is generated by plot.py at 2018-05-24 17:45:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 32.194 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.053 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 32.263 ms

Loss rate: 0.00%

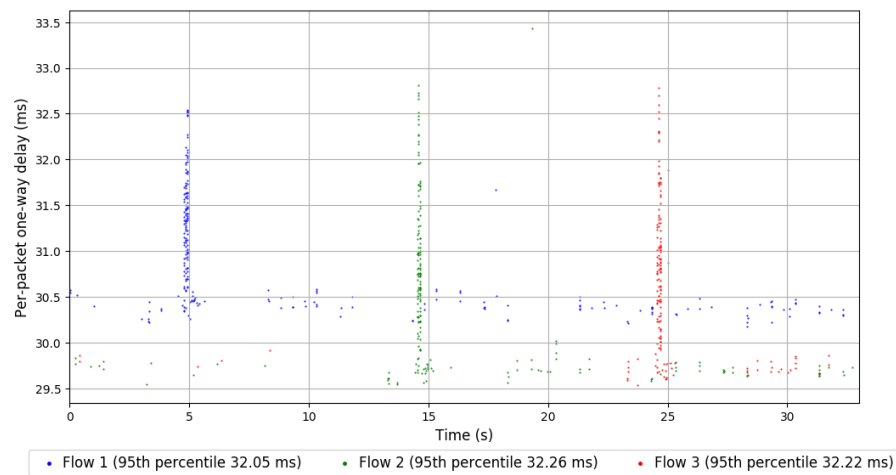
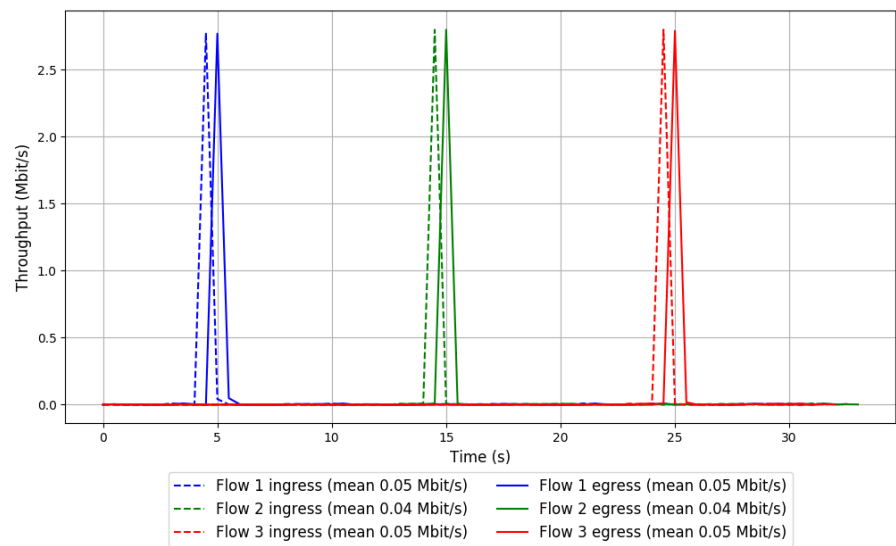
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.219 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-24 14:49:57

End at: 2018-05-24 14:50:27

Local clock offset: -0.868 ms

Remote clock offset: 1.674 ms

Below is generated by plot.py at 2018-05-24 17:45:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 30.372 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 30.097 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 30.091 ms

Loss rate: 0.00%

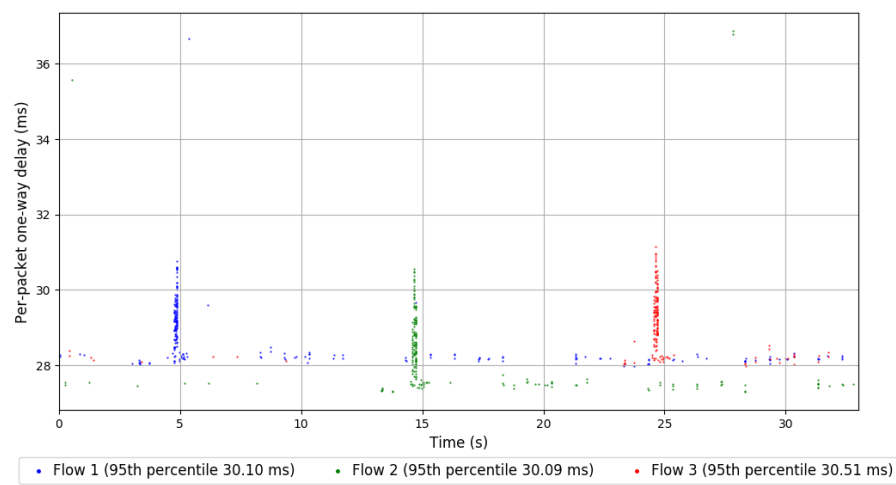
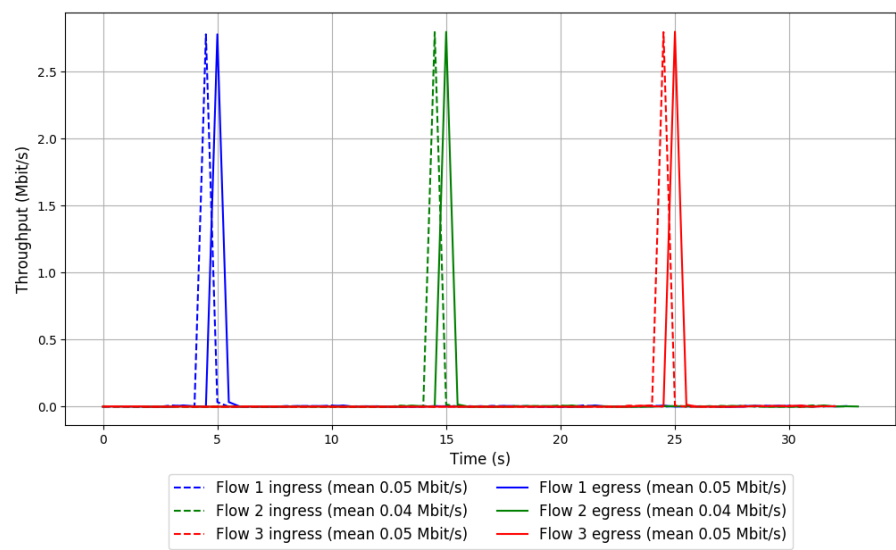
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 30.511 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

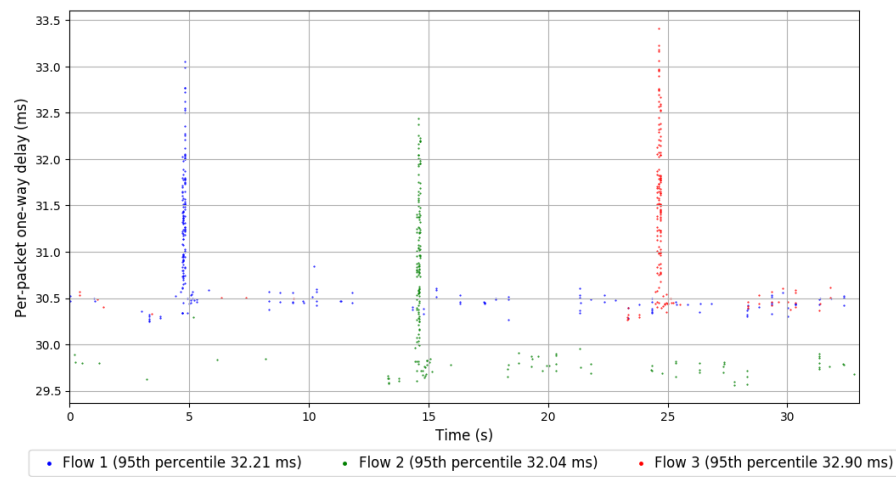
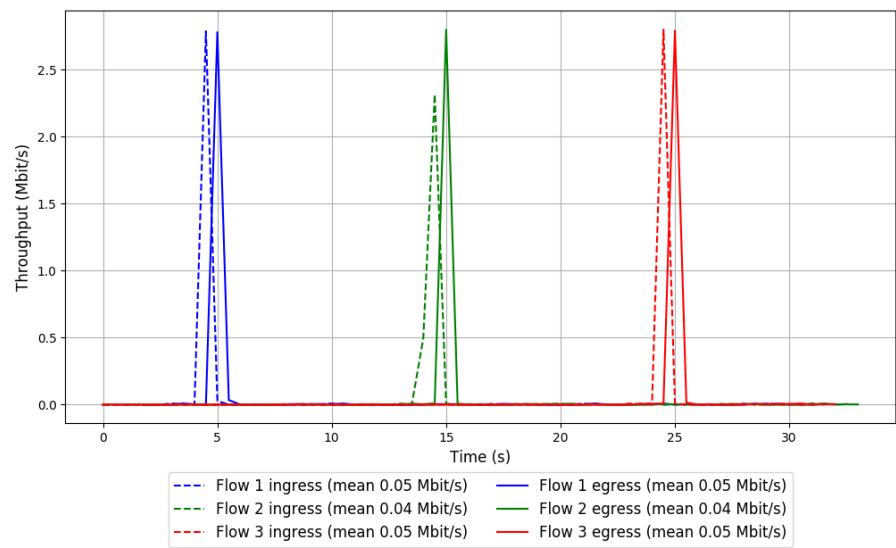


Run 4: Statistics of WebRTC media

Start at: 2018-05-24 15:11:13
End at: 2018-05-24 15:11:43
Local clock offset: 0.11 ms
Remote clock offset: 4.154 ms

```
# Below is generated by plot.py at 2018-05-24 17:45:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 32.443 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.206 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 32.042 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.895 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-24 15:32:30

End at: 2018-05-24 15:33:00

Local clock offset: 0.286 ms

Remote clock offset: 4.665 ms

Below is generated by plot.py at 2018-05-24 17:45:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 32.788 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.341 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 32.916 ms

Loss rate: 0.00%

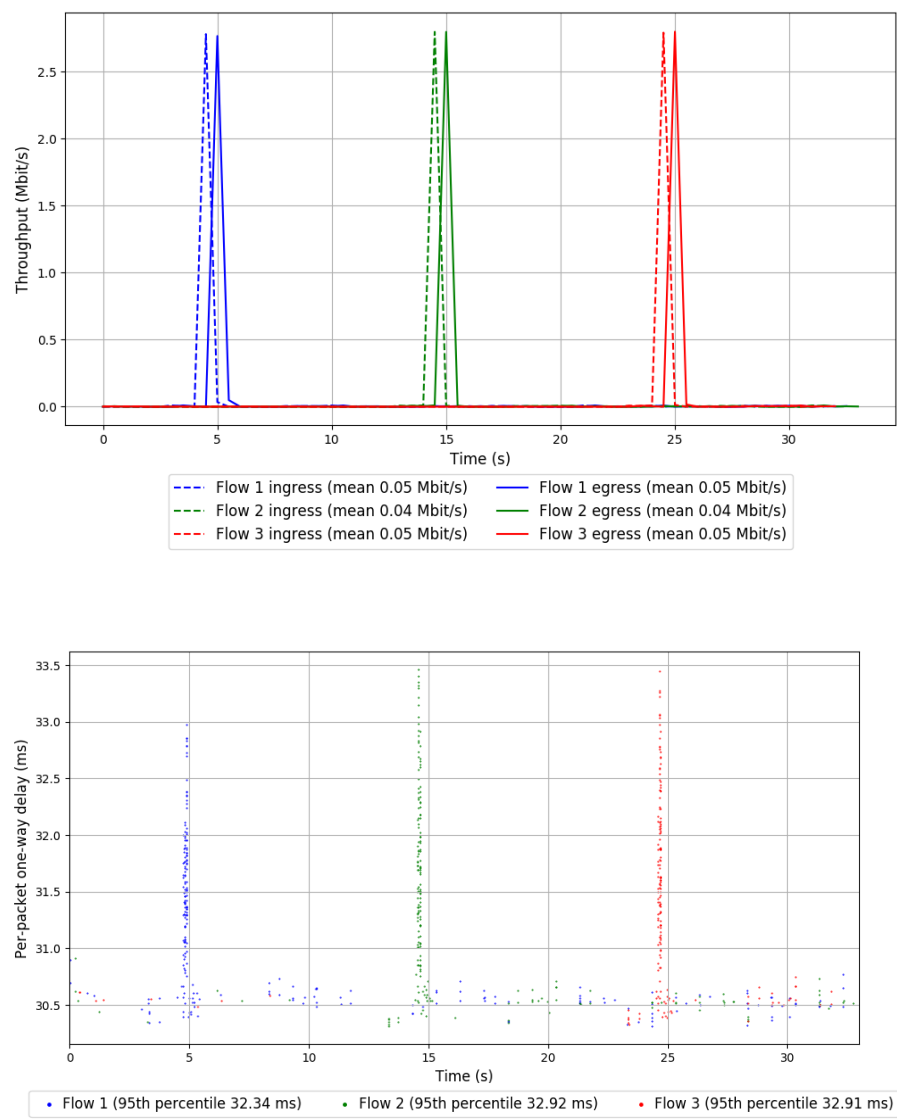
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.914 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-24 15:53:46

End at: 2018-05-24 15:54:16

Local clock offset: 0.288 ms

Remote clock offset: 3.43 ms

Below is generated by plot.py at 2018-05-24 17:45:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 32.612 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 31.300 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 32.820 ms

Loss rate: 0.00%

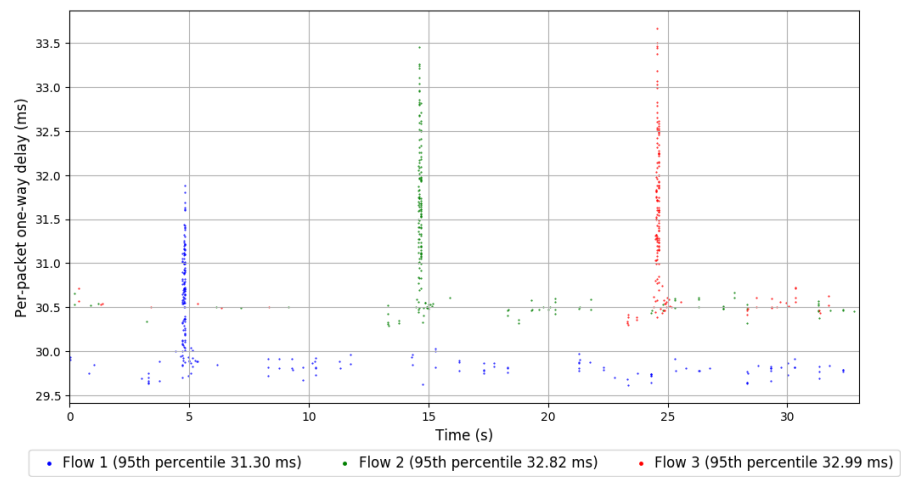
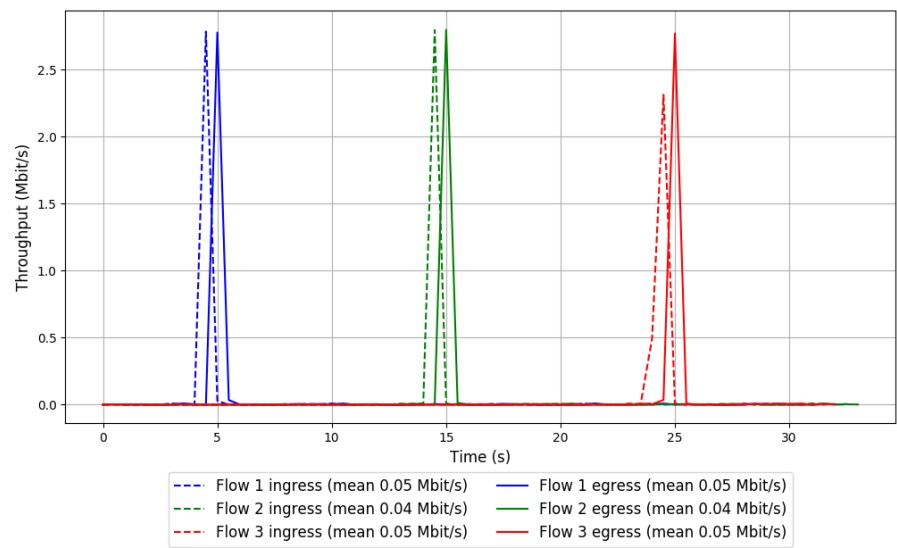
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.986 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-24 16:15:02

End at: 2018-05-24 16:15:32

Local clock offset: -0.051 ms

Remote clock offset: 3.314 ms

Below is generated by plot.py at 2018-05-24 17:45:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 32.265 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.219 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 32.151 ms

Loss rate: 0.00%

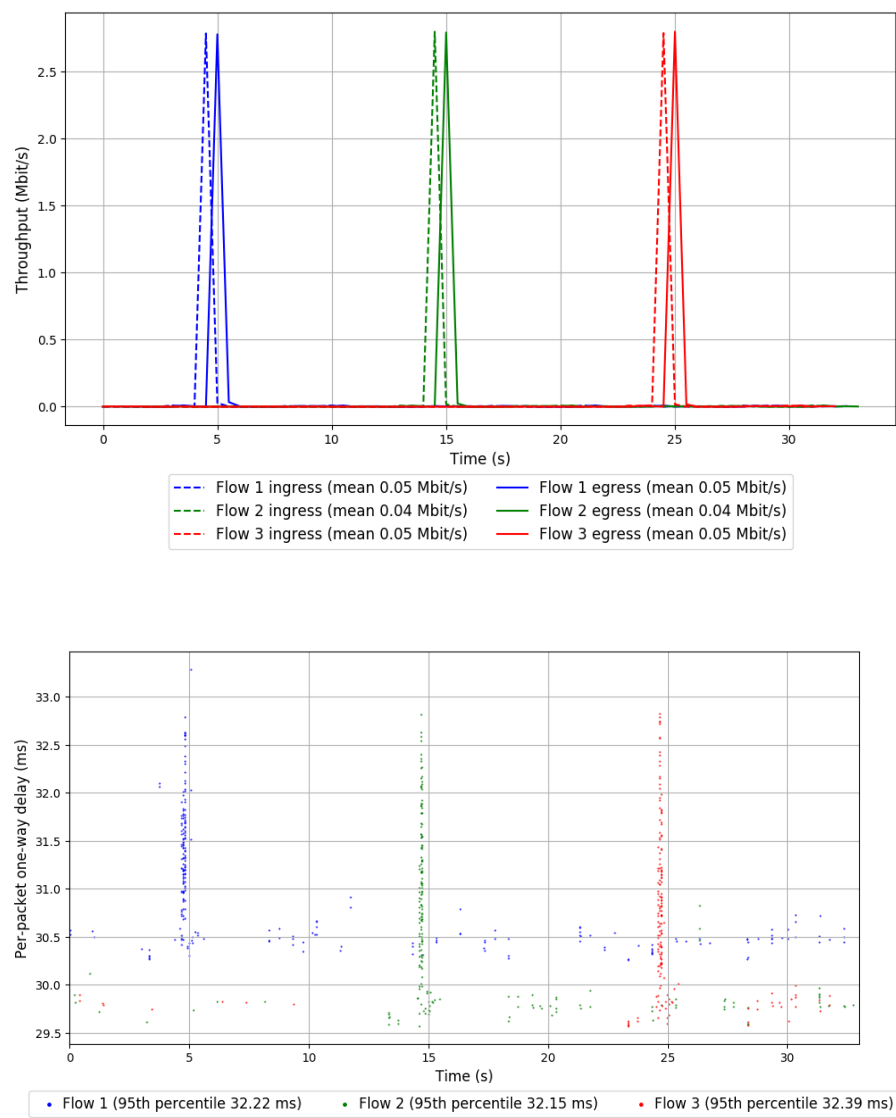
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.391 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-24 16:36:16

End at: 2018-05-24 16:36:46

Local clock offset: 0.205 ms

Remote clock offset: 3.326 ms

Below is generated by plot.py at 2018-05-24 17:45:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 32.442 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 31.285 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 32.239 ms

Loss rate: 0.00%

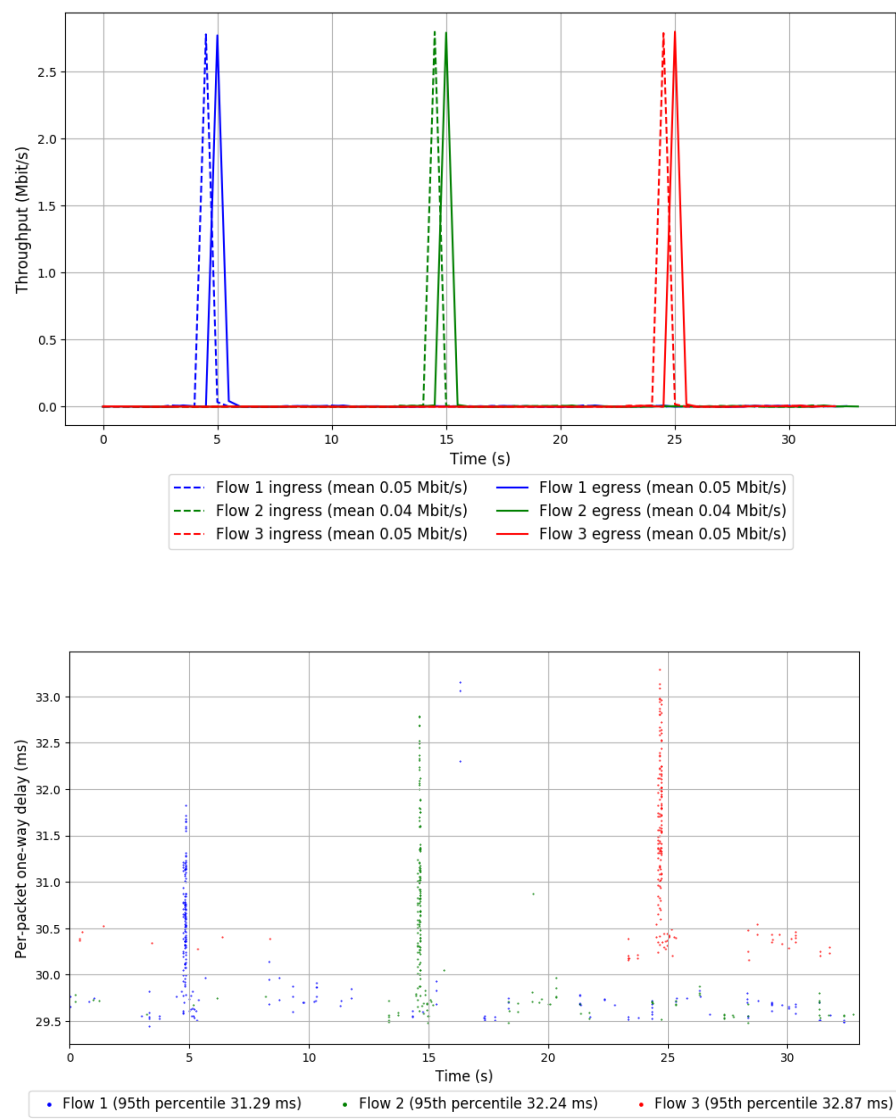
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.869 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-24 16:57:30

End at: 2018-05-24 16:58:00

Local clock offset: 0.233 ms

Remote clock offset: 0.598 ms

Below is generated by plot.py at 2018-05-24 17:45:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 30.133 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 30.060 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 29.986 ms

Loss rate: 0.00%

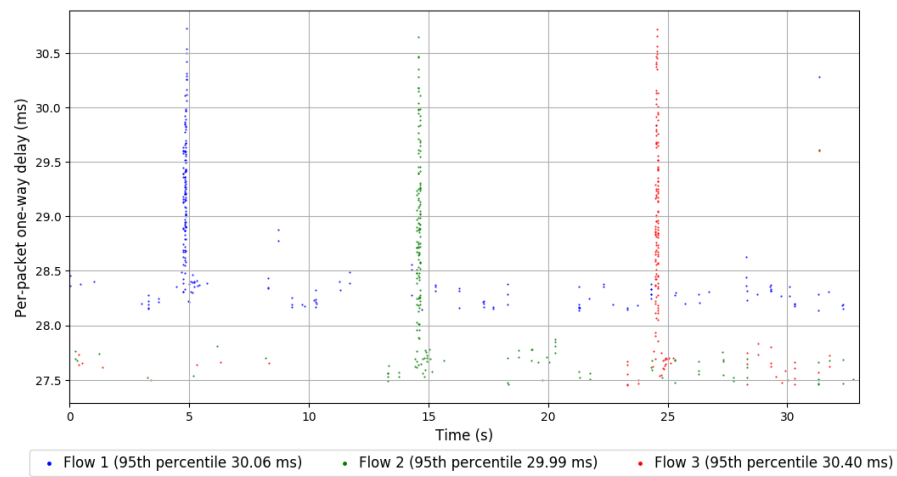
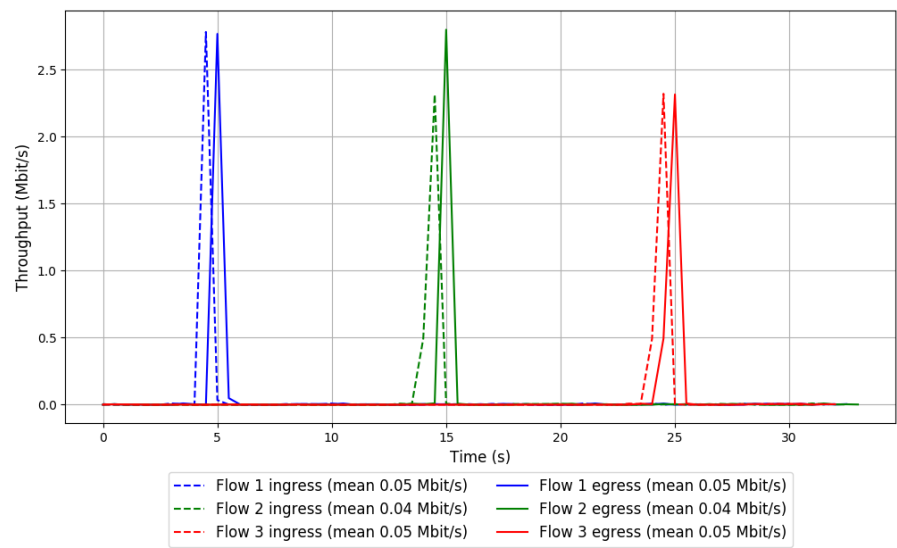
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 30.399 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-24 17:18:48

End at: 2018-05-24 17:19:18

Local clock offset: 0.133 ms

Remote clock offset: 0.366 ms

Below is generated by plot.py at 2018-05-24 17:45:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 29.961 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 29.439 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 30.001 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 30.220 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

