

Pantheon Report

Generated at 2018-06-05 15:25:39 (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.

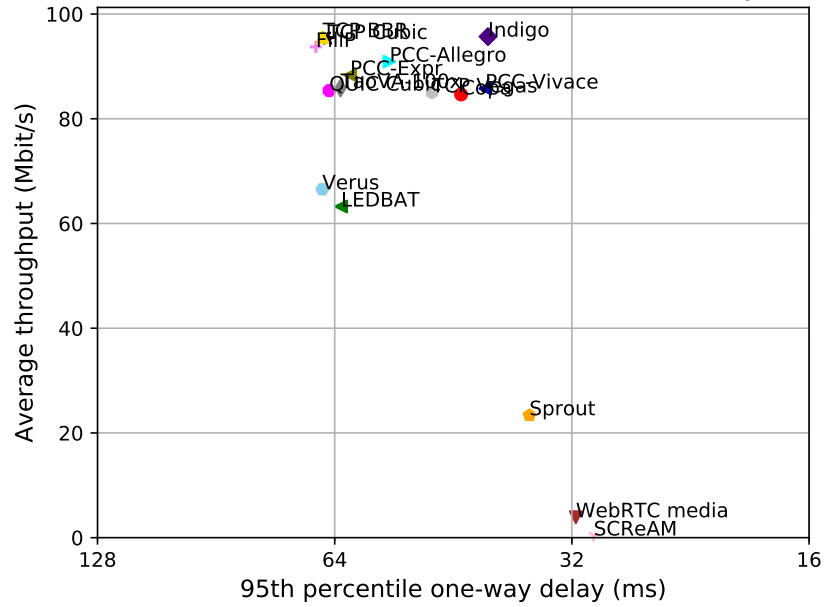
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

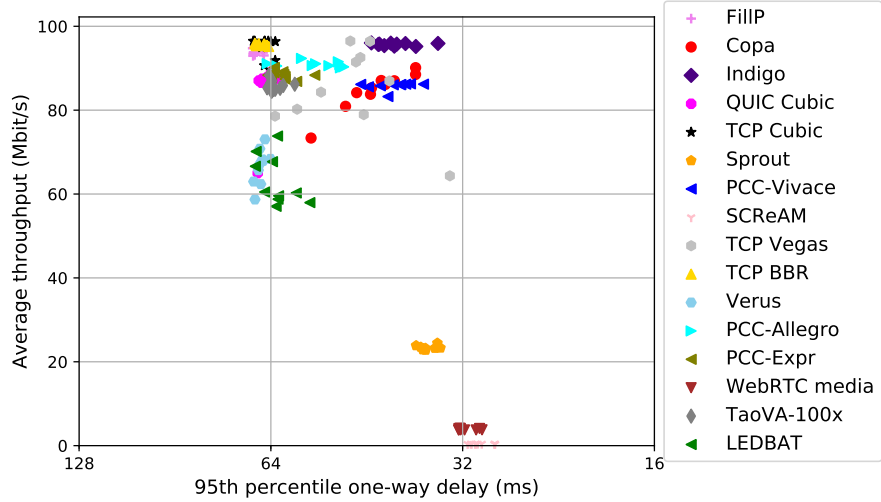
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
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	64.76	33.54	26.22	65.79	66.99	67.18	8.20	11.18	11.93
Copa	10	63.73	20.32	22.19	44.99	40.98	39.96	0.45	0.19	0.13
TCP Cubic	10	69.06	24.43	29.84	65.69	64.26	61.38	0.70	0.61	0.53
FillP	10	60.86	35.63	27.91	67.23	68.13	68.34	21.11	31.31	44.43
Indigo	10	65.18	30.10	32.20	39.21	42.58	45.34	0.04	0.06	0.10
LEDBAT	10	38.45	27.95	18.99	61.44	63.89	58.10	0.17	0.28	0.27
PCC-Allegro	10	80.91	10.64	8.87	54.27	55.17	56.37	1.70	1.59	2.13
PCC-Expr	10	64.65	29.23	12.88	59.80	62.72	61.99	1.36	1.36	1.57
QUIC Cubic	10	59.88	28.36	20.26	64.64	65.42	65.52	1.71	1.30	1.27
SCReAM	10	0.21	0.20	0.22	29.80	29.87	29.89	0.04	0.09	0.00
Sprout	10	11.92	11.63	11.28	35.88	36.43	36.68	0.02	0.01	0.00
TaoVA-100x	10	51.40	38.55	26.82	60.37	64.19	64.84	14.71	25.52	18.62
TCP Vegas	10	51.28	35.20	30.98	48.08	46.62	41.18	0.84	0.20	0.12
Verus	10	40.43	30.78	18.41	65.56	67.76	62.96	27.97	44.58	38.98
PCC-Vivace	10	64.96	24.66	13.34	40.02	43.66	44.75	0.08	0.10	0.05
WebRTC media	10	2.06	1.38	0.47	31.09	31.91	32.42	0.04	0.05	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-06-05 11:38:57

End at: 2018-06-05 11:39:27

Local clock offset: 0.128 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-06-05 15:03:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.87 Mbit/s

95th percentile per-packet one-way delay: 66.871 ms

Loss rate: 9.17%

-- Flow 1:

Average throughput: 65.53 Mbit/s

95th percentile per-packet one-way delay: 66.283 ms

Loss rate: 8.18%

-- Flow 2:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 67.954 ms

Loss rate: 11.09%

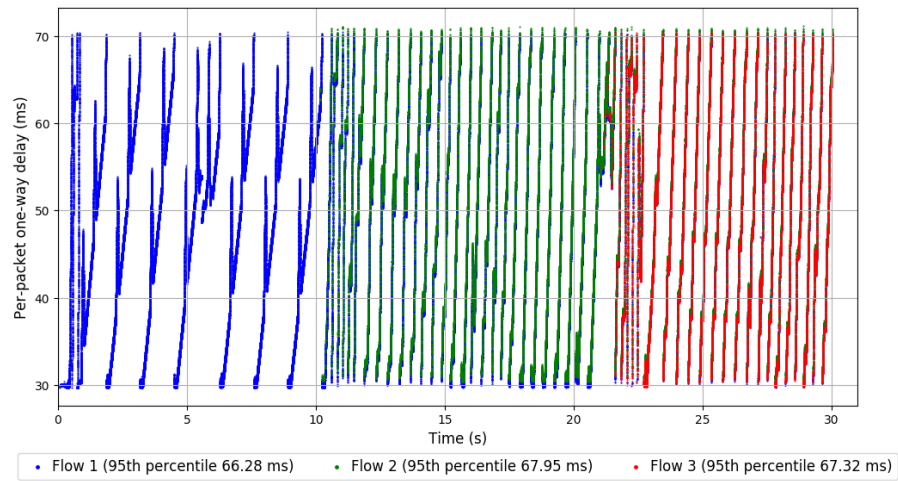
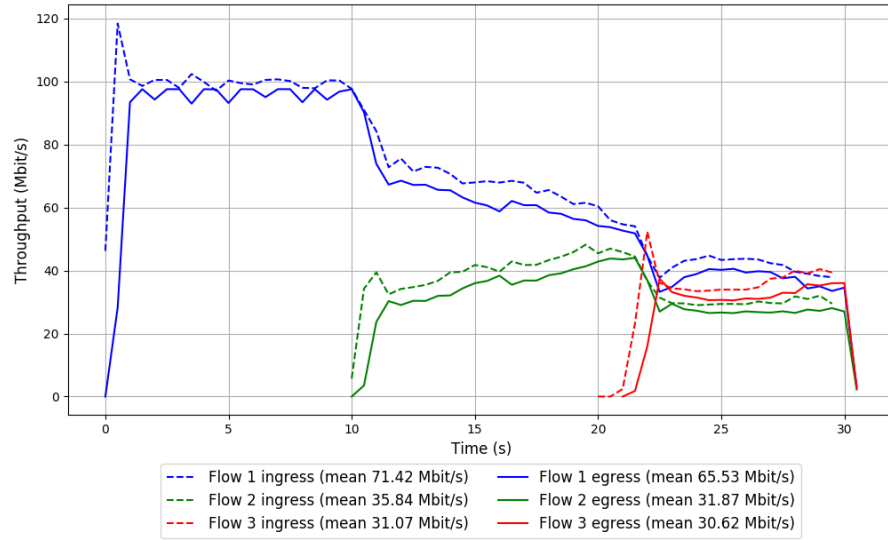
-- Flow 3:

Average throughput: 30.62 Mbit/s

95th percentile per-packet one-way delay: 67.316 ms

Loss rate: 11.57%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-05 12:00:26

End at: 2018-06-05 12:00:56

Local clock offset: 0.382 ms

Remote clock offset: 1.041 ms

Below is generated by plot.py at 2018-06-05 15:03:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.94 Mbit/s

95th percentile per-packet one-way delay: 67.804 ms

Loss rate: 9.42%

-- Flow 1:

Average throughput: 61.61 Mbit/s

95th percentile per-packet one-way delay: 67.074 ms

Loss rate: 8.28%

-- Flow 2:

Average throughput: 38.96 Mbit/s

95th percentile per-packet one-way delay: 68.660 ms

Loss rate: 11.02%

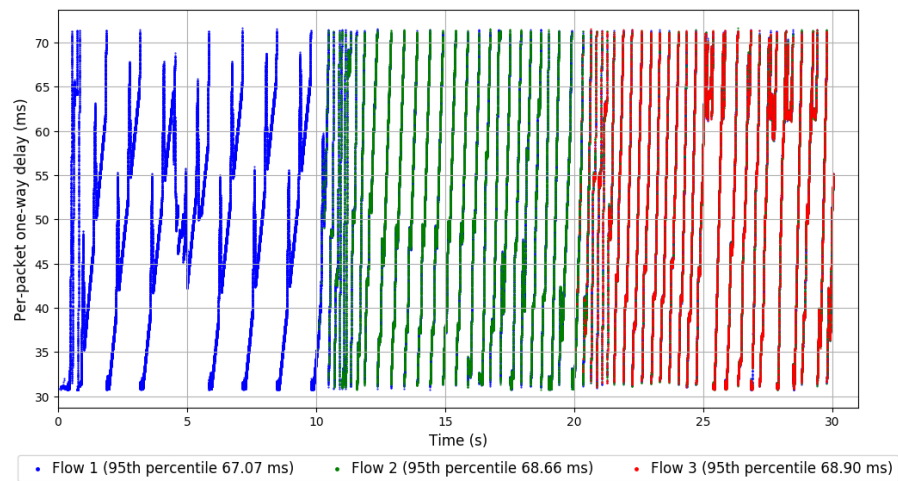
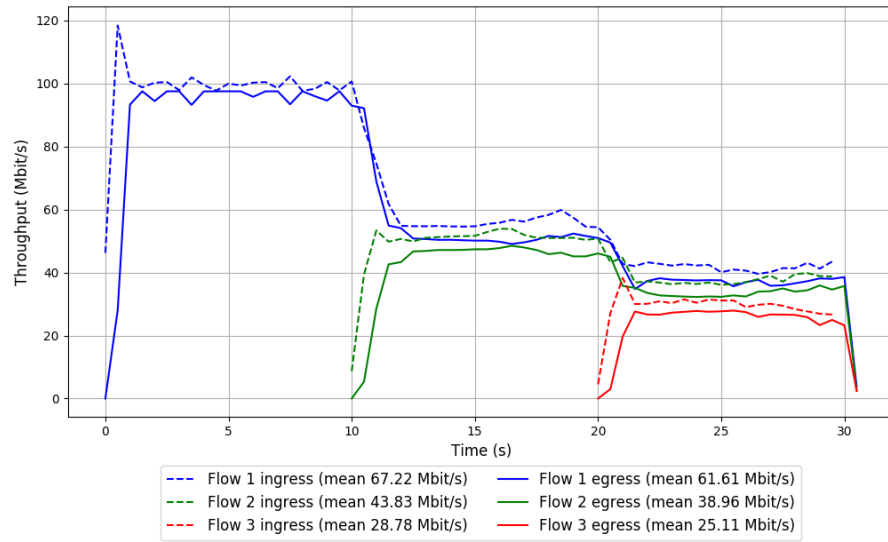
-- Flow 3:

Average throughput: 25.11 Mbit/s

95th percentile per-packet one-way delay: 68.899 ms

Loss rate: 12.59%

Run 2: Report of TCP BBR — Data Link

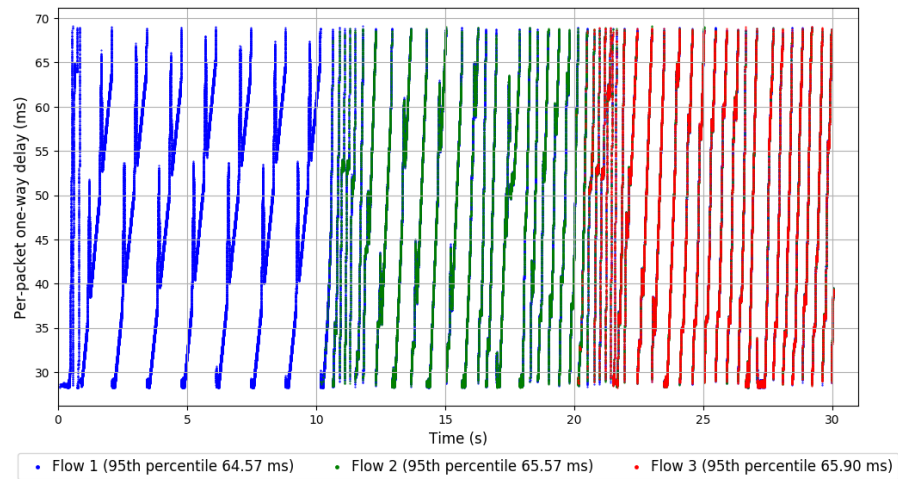
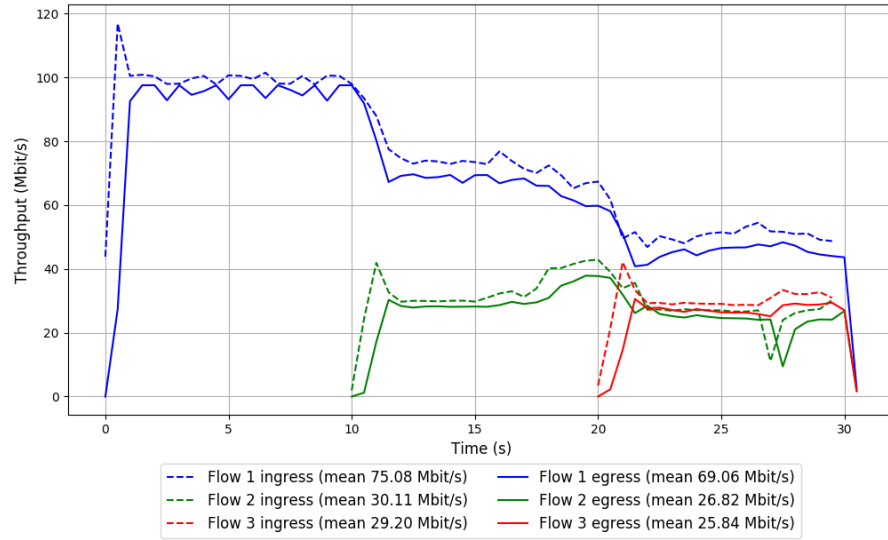


Run 3: Statistics of TCP BBR

Start at: 2018-06-05 12:21:57
End at: 2018-06-05 12:22:27
Local clock offset: -0.112 ms
Remote clock offset: -2.105 ms

Below is generated by plot.py at 2018-06-05 15:03:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 64.915 ms
Loss rate: 8.91%
-- Flow 1:
Average throughput: 69.06 Mbit/s
95th percentile per-packet one-way delay: 64.572 ms
Loss rate: 7.98%
-- Flow 2:
Average throughput: 26.82 Mbit/s
95th percentile per-packet one-way delay: 65.567 ms
Loss rate: 11.03%
-- Flow 3:
Average throughput: 25.84 Mbit/s
95th percentile per-packet one-way delay: 65.902 ms
Loss rate: 11.69%

Run 3: Report of TCP BBR — Data Link

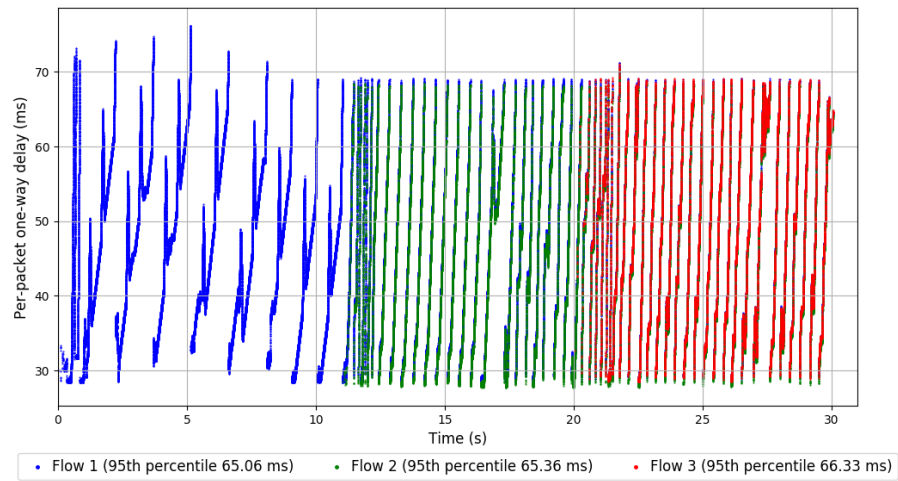
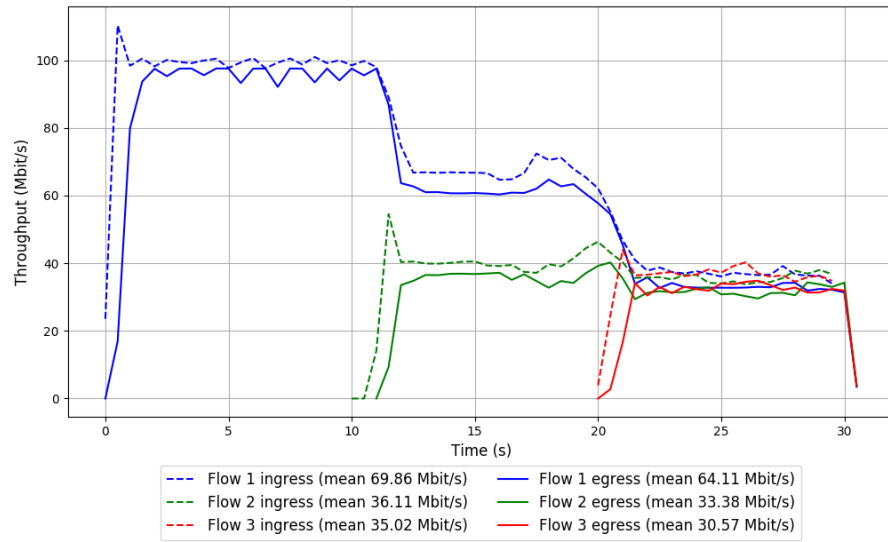


Run 4: Statistics of TCP BBR

Start at: 2018-06-05 12:43:31
End at: 2018-06-05 12:44:01
Local clock offset: 0.061 ms
Remote clock offset: -2.054 ms

Below is generated by plot.py at 2018-06-05 15:03:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.43 Mbit/s
95th percentile per-packet one-way delay: 65.359 ms
Loss rate: 9.49%
-- Flow 1:
Average throughput: 64.11 Mbit/s
95th percentile per-packet one-way delay: 65.060 ms
Loss rate: 8.13%
-- Flow 2:
Average throughput: 33.38 Mbit/s
95th percentile per-packet one-way delay: 65.363 ms
Loss rate: 12.03%
-- Flow 3:
Average throughput: 30.57 Mbit/s
95th percentile per-packet one-way delay: 66.330 ms
Loss rate: 12.44%

Run 4: Report of TCP BBR — Data Link

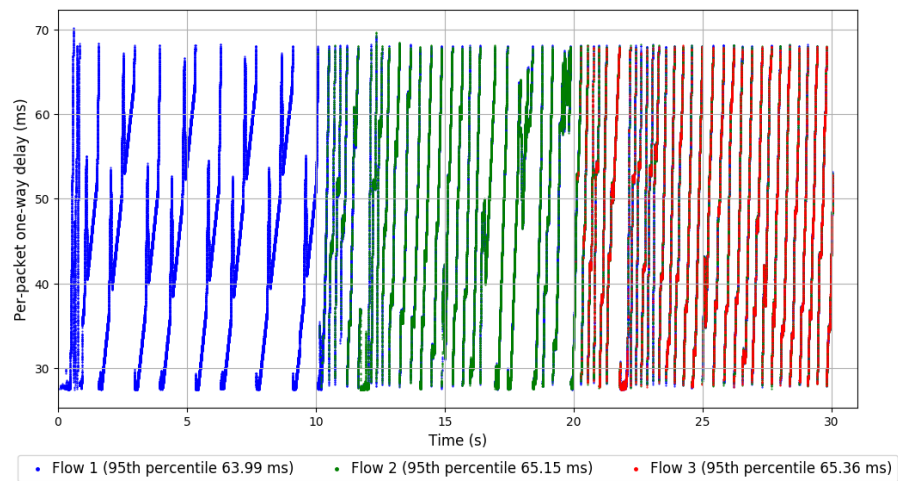
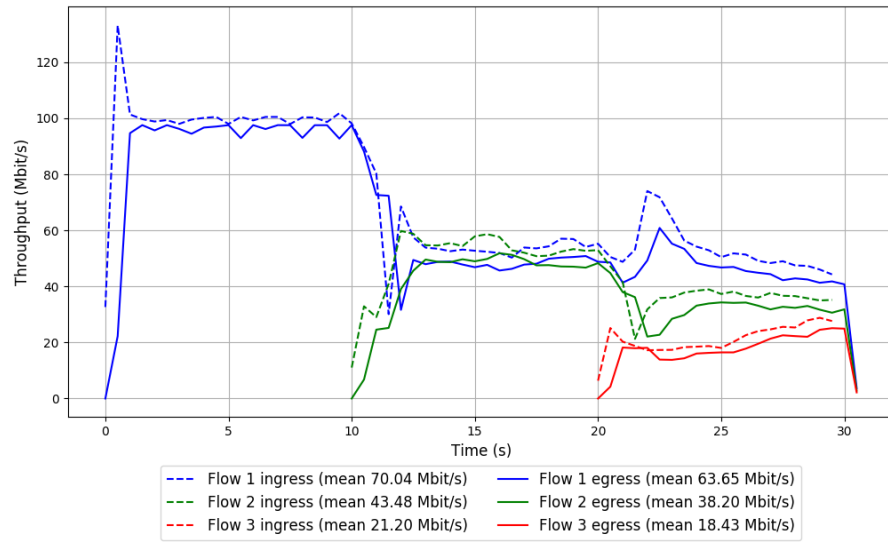


Run 5: Statistics of TCP BBR

Start at: 2018-06-05 13:05:01
End at: 2018-06-05 13:05:31
Local clock offset: 0.283 ms
Remote clock offset: -2.166 ms

Below is generated by plot.py at 2018-06-05 15:03:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: 64.510 ms
Loss rate: 10.17%
-- Flow 1:
Average throughput: 63.65 Mbit/s
95th percentile per-packet one-way delay: 63.994 ms
Loss rate: 9.05%
-- Flow 2:
Average throughput: 38.20 Mbit/s
95th percentile per-packet one-way delay: 65.149 ms
Loss rate: 12.21%
-- Flow 3:
Average throughput: 18.43 Mbit/s
95th percentile per-packet one-way delay: 65.359 ms
Loss rate: 12.96%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-05 13:26:33

End at: 2018-06-05 13:27:03

Local clock offset: 0.047 ms

Remote clock offset: 0.247 ms

Below is generated by plot.py at 2018-06-05 15:03:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.48 Mbit/s

95th percentile per-packet one-way delay: 67.435 ms

Loss rate: 8.60%

-- Flow 1:

Average throughput: 66.37 Mbit/s

95th percentile per-packet one-way delay: 67.129 ms

Loss rate: 7.80%

-- Flow 2:

Average throughput: 32.95 Mbit/s

95th percentile per-packet one-way delay: 67.802 ms

Loss rate: 10.45%

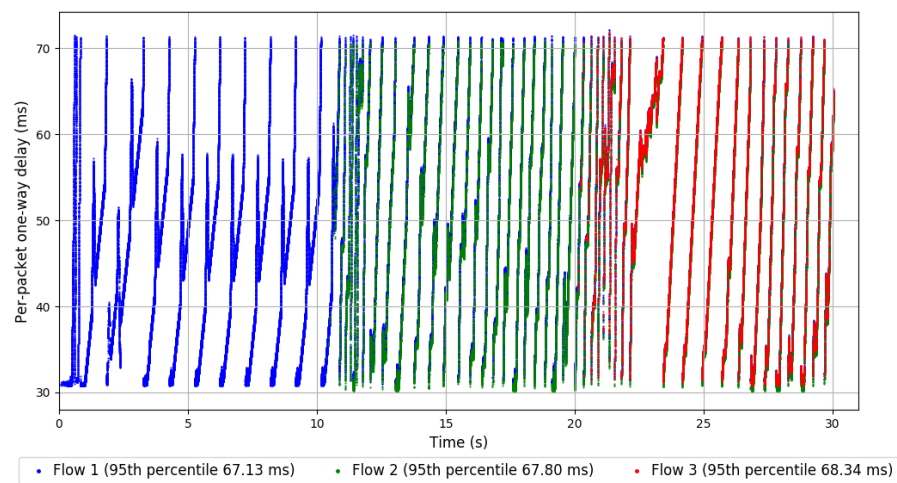
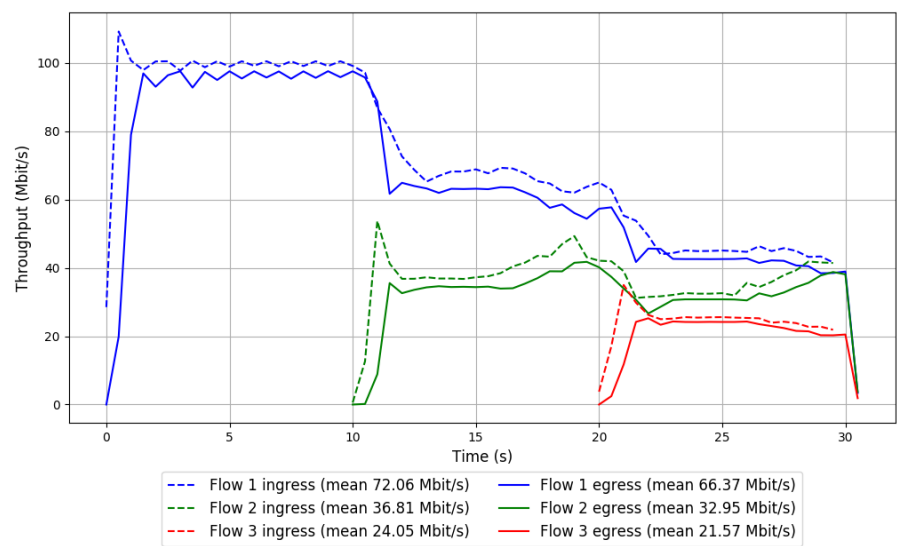
-- Flow 3:

Average throughput: 21.57 Mbit/s

95th percentile per-packet one-way delay: 68.345 ms

Loss rate: 10.10%

Run 6: Report of TCP BBR — Data Link

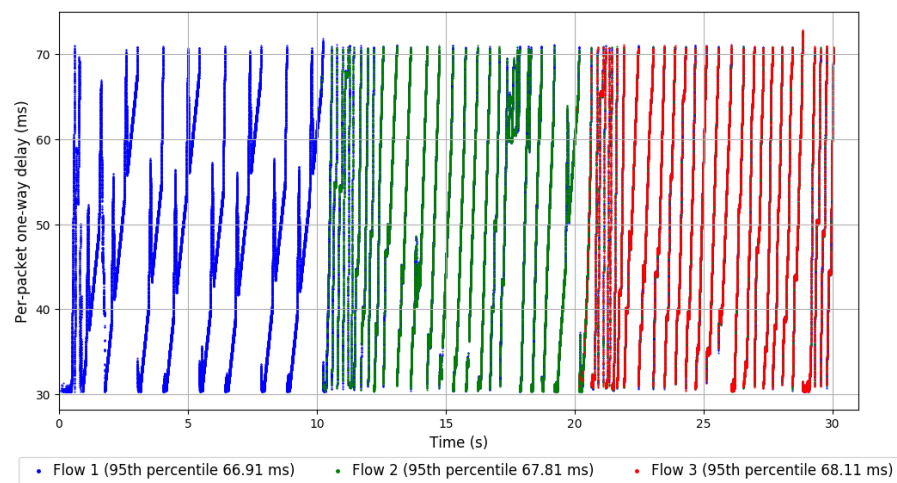
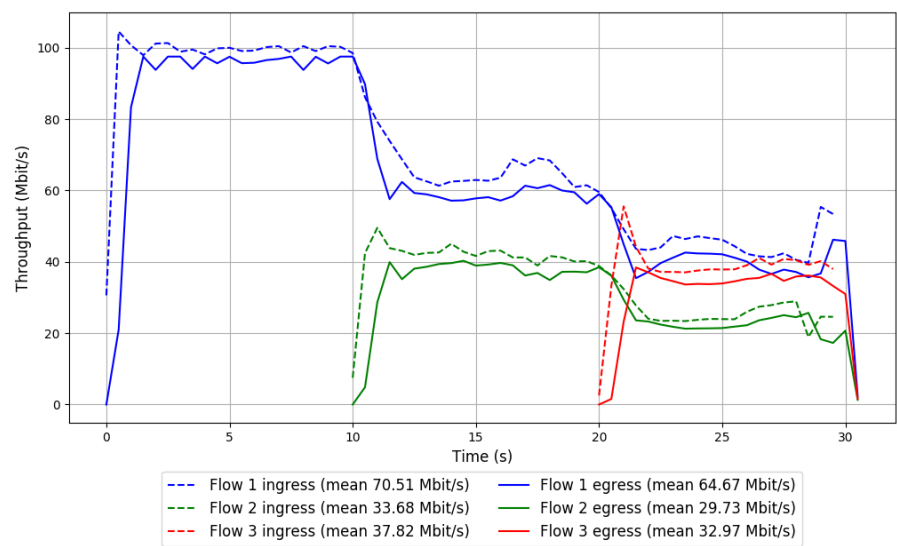


Run 7: Statistics of TCP BBR

Start at: 2018-06-05 13:47:59
End at: 2018-06-05 13:48:29
Local clock offset: -0.002 ms
Remote clock offset: -0.153 ms

Below is generated by plot.py at 2018-06-05 15:03:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: 67.354 ms
Loss rate: 9.61%
-- Flow 1:
Average throughput: 64.67 Mbit/s
95th percentile per-packet one-way delay: 66.914 ms
Loss rate: 8.27%
-- Flow 2:
Average throughput: 29.73 Mbit/s
95th percentile per-packet one-way delay: 67.814 ms
Loss rate: 11.86%
-- Flow 3:
Average throughput: 32.97 Mbit/s
95th percentile per-packet one-way delay: 68.108 ms
Loss rate: 13.08%

Run 7: Report of TCP BBR — Data Link

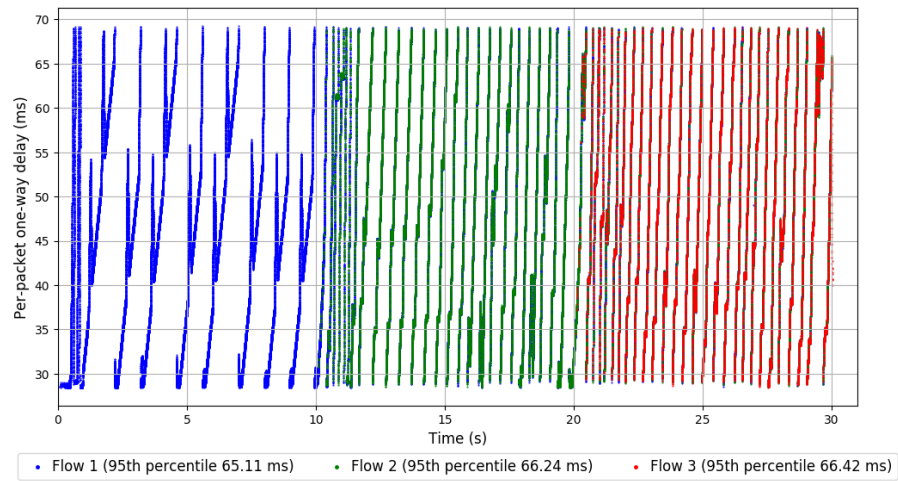
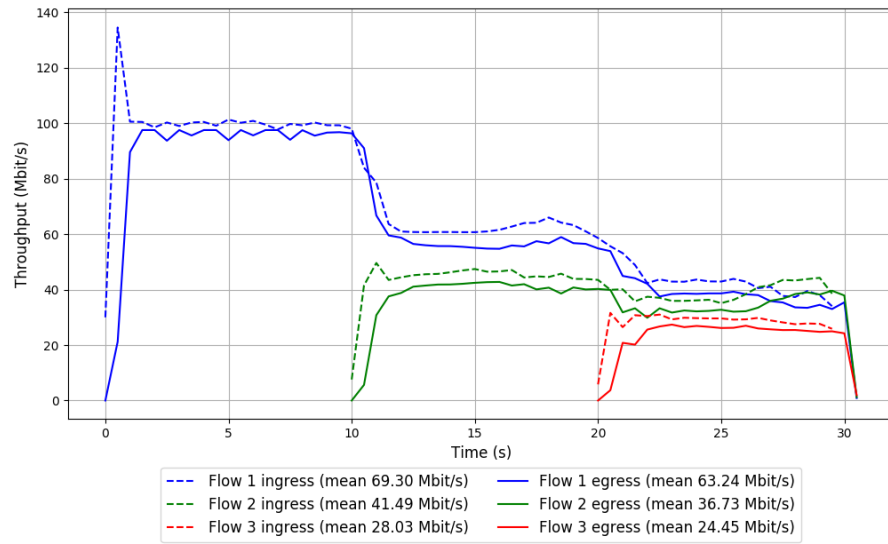


Run 8: Statistics of TCP BBR

Start at: 2018-06-05 14:09:28
End at: 2018-06-05 14:09:58
Local clock offset: -0.132 ms
Remote clock offset: -2.374 ms

Below is generated by plot.py at 2018-06-05 15:03:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 65.551 ms
Loss rate: 9.69%
-- Flow 1:
Average throughput: 63.24 Mbit/s
95th percentile per-packet one-way delay: 65.106 ms
Loss rate: 8.63%
-- Flow 2:
Average throughput: 36.73 Mbit/s
95th percentile per-packet one-way delay: 66.240 ms
Loss rate: 11.33%
-- Flow 3:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 66.417 ms
Loss rate: 12.74%

Run 8: Report of TCP BBR — Data Link

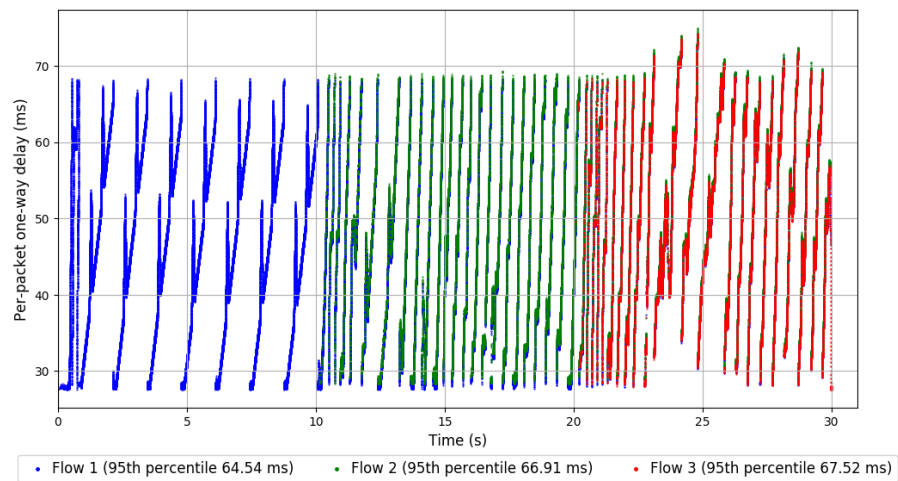
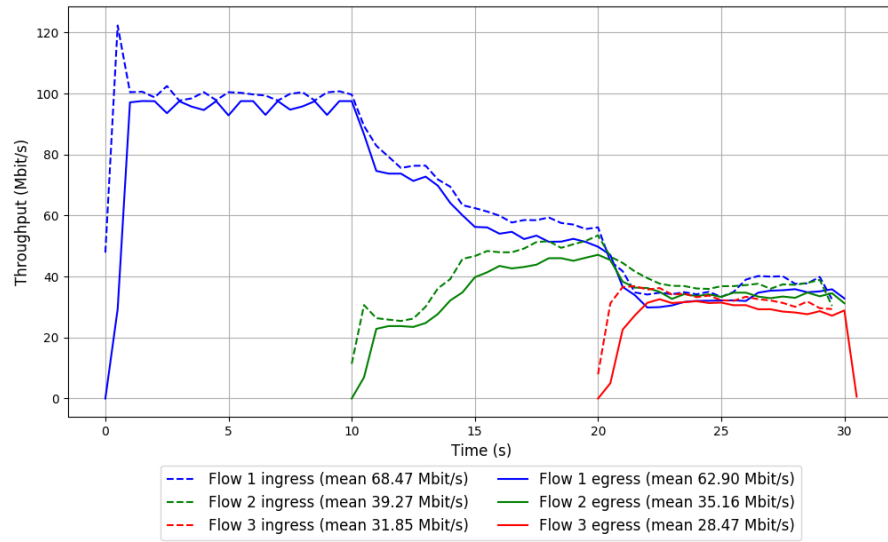


Run 9: Statistics of TCP BBR

Start at: 2018-06-05 14:31:10
End at: 2018-06-05 14:31:40
Local clock offset: -0.133 ms
Remote clock offset: -1.835 ms

Below is generated by plot.py at 2018-06-05 15:04:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 65.611 ms
Loss rate: 8.99%
-- Flow 1:
Average throughput: 62.90 Mbit/s
95th percentile per-packet one-way delay: 64.536 ms
Loss rate: 8.08%
-- Flow 2:
Average throughput: 35.16 Mbit/s
95th percentile per-packet one-way delay: 66.910 ms
Loss rate: 10.65%
-- Flow 3:
Average throughput: 28.47 Mbit/s
95th percentile per-packet one-way delay: 67.520 ms
Loss rate: 10.82%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-05 14:52:42

End at: 2018-06-05 14:53:12

Local clock offset: -0.057 ms

Remote clock offset: 1.245 ms

Below is generated by plot.py at 2018-06-05 15:04:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.55 Mbit/s

95th percentile per-packet one-way delay: 67.537 ms

Loss rate: 8.50%

-- Flow 1:

Average throughput: 66.46 Mbit/s

95th percentile per-packet one-way delay: 67.185 ms

Loss rate: 7.60%

-- Flow 2:

Average throughput: 31.64 Mbit/s

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

Loss rate: 10.17%

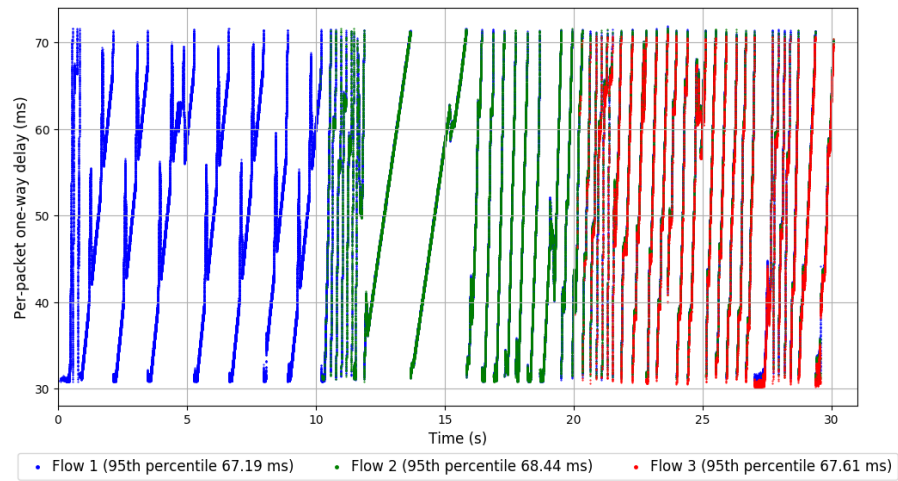
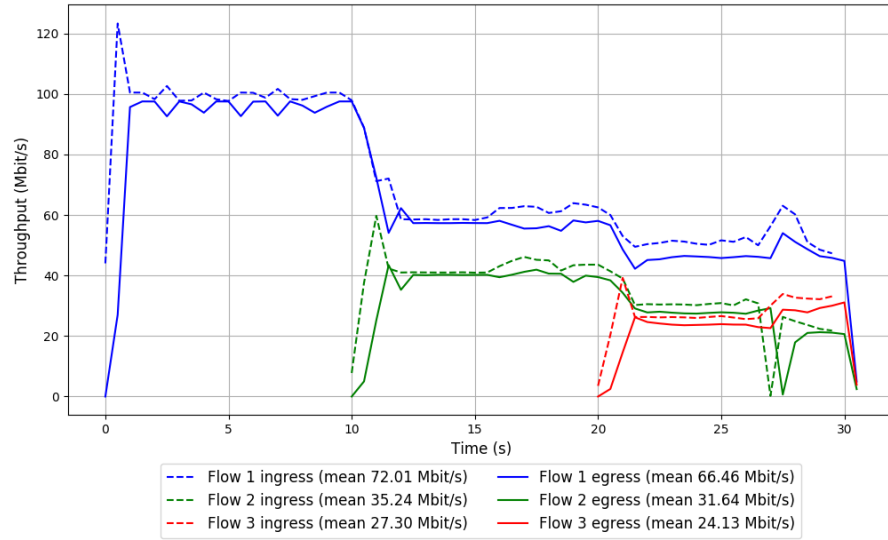
-- Flow 3:

Average throughput: 24.13 Mbit/s

95th percentile per-packet one-way delay: 67.615 ms

Loss rate: 11.35%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-05 11:41:39

End at: 2018-06-05 11:42:09

Local clock offset: 0.261 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-06-05 15:05:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.07 Mbit/s

95th percentile per-packet one-way delay: 42.950 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 62.04 Mbit/s

95th percentile per-packet one-way delay: 44.417 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 16.46 Mbit/s

95th percentile per-packet one-way delay: 38.468 ms

Loss rate: 0.07%

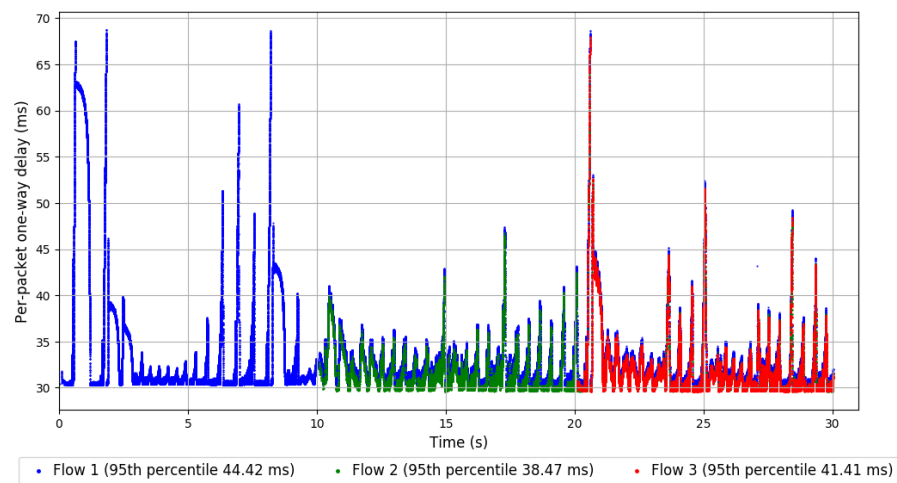
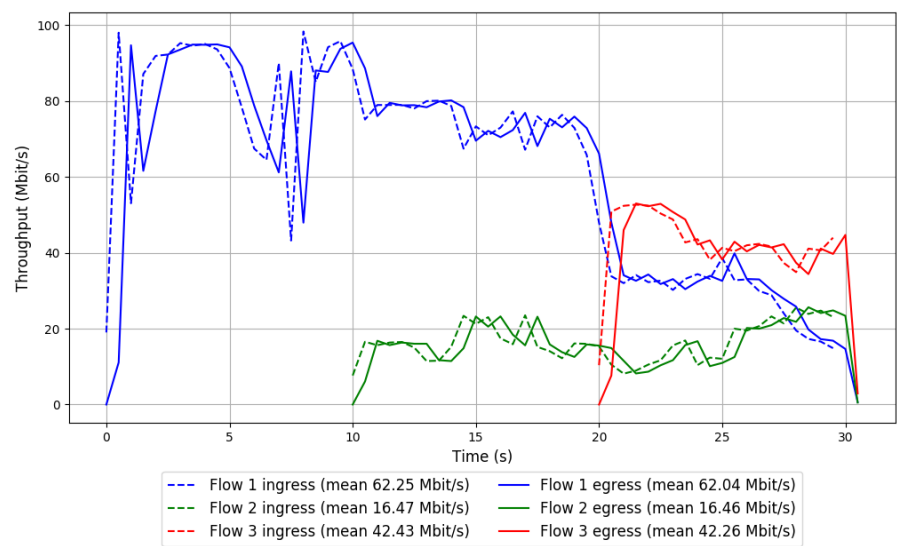
-- Flow 3:

Average throughput: 42.26 Mbit/s

95th percentile per-packet one-way delay: 41.405 ms

Loss rate: 0.44%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-05 12:03:06

End at: 2018-06-05 12:03:37

Local clock offset: 0.317 ms

Remote clock offset: 0.59 ms

Below is generated by plot.py at 2018-06-05 15:05:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.35 Mbit/s

95th percentile per-packet one-way delay: 55.348 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 49.49 Mbit/s

95th percentile per-packet one-way delay: 56.254 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 21.46 Mbit/s

95th percentile per-packet one-way delay: 52.748 ms

Loss rate: 0.24%

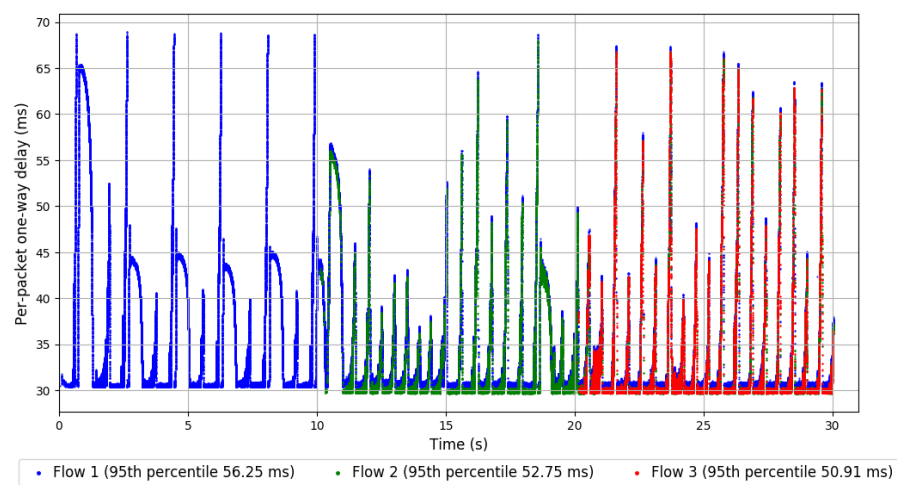
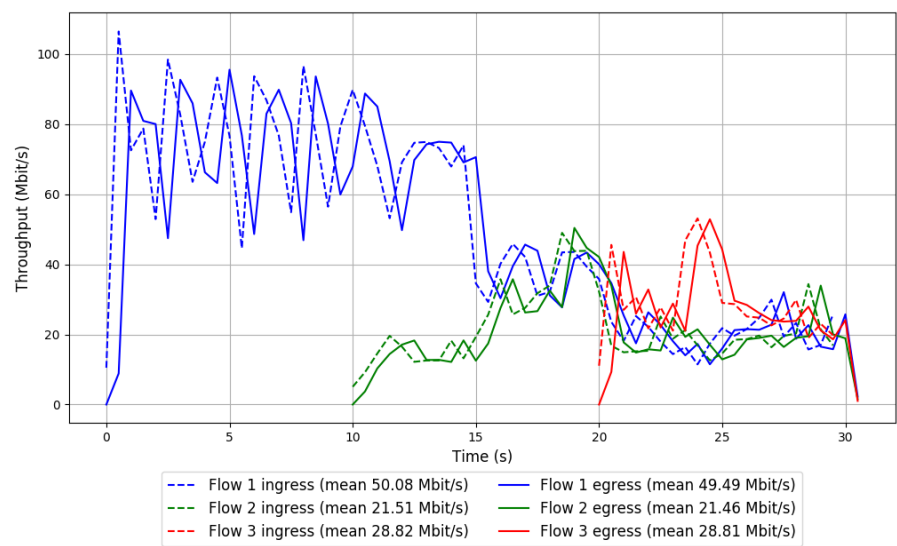
-- Flow 3:

Average throughput: 28.81 Mbit/s

95th percentile per-packet one-way delay: 50.914 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link

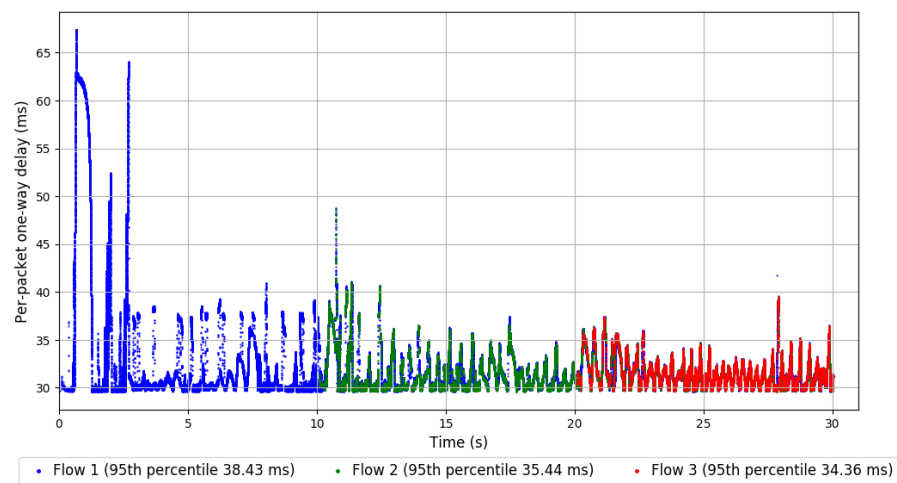
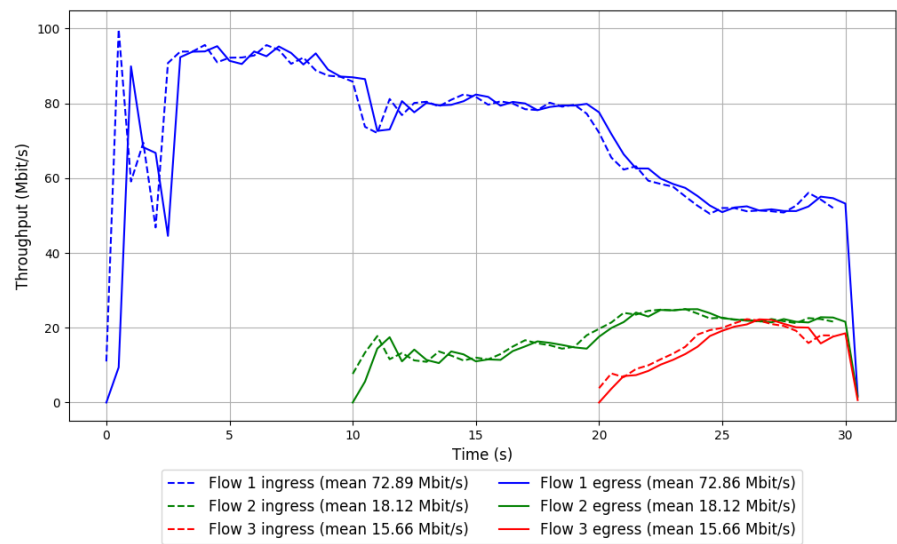


Run 3: Statistics of Copa

Start at: 2018-06-05 12:24:39
End at: 2018-06-05 12:25:09
Local clock offset: -0.054 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-06-05 15:05:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.13 Mbit/s
95th percentile per-packet one-way delay: 37.930 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 72.86 Mbit/s
95th percentile per-packet one-way delay: 38.427 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 18.12 Mbit/s
95th percentile per-packet one-way delay: 35.437 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 15.66 Mbit/s
95th percentile per-packet one-way delay: 34.361 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

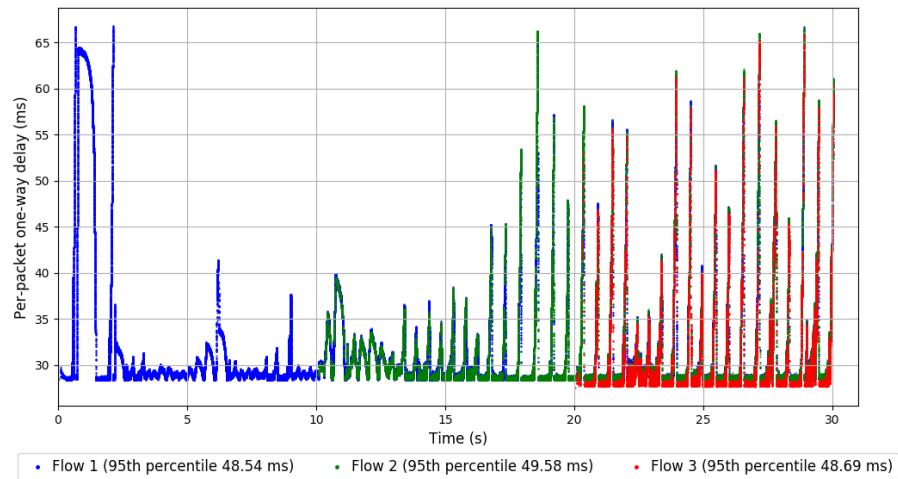
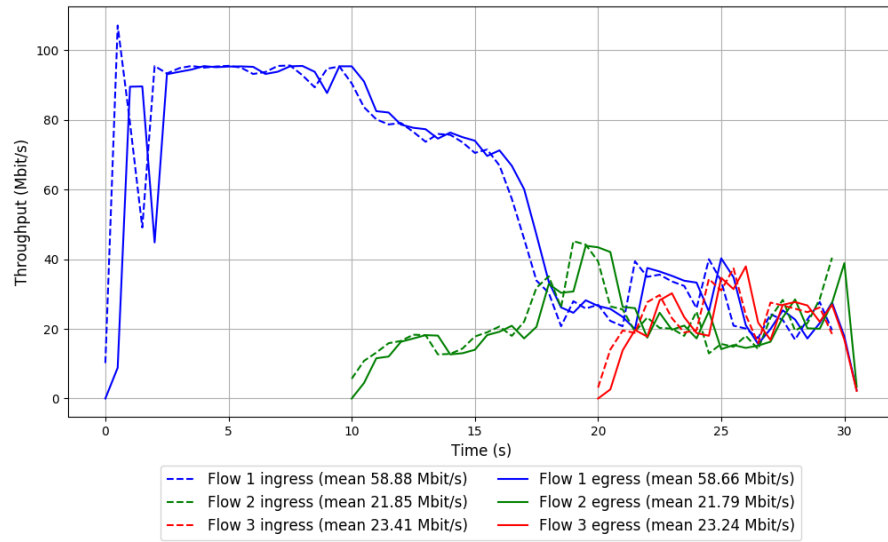


Run 4: Statistics of Copa

Start at: 2018-06-05 12:46:12
End at: 2018-06-05 12:46:42
Local clock offset: 0.097 ms
Remote clock offset: -2.127 ms

Below is generated by plot.py at 2018-06-05 15:05:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.92 Mbit/s
95th percentile per-packet one-way delay: 48.863 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 58.66 Mbit/s
95th percentile per-packet one-way delay: 48.538 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 21.79 Mbit/s
95th percentile per-packet one-way delay: 49.580 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 23.24 Mbit/s
95th percentile per-packet one-way delay: 48.687 ms
Loss rate: 0.47%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-05 13:07:42

End at: 2018-06-05 13:08:12

Local clock offset: 0.226 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-06-05 15:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.31 Mbit/s

95th percentile per-packet one-way delay: 44.488 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 56.70 Mbit/s

95th percentile per-packet one-way delay: 45.440 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 33.37 Mbit/s

95th percentile per-packet one-way delay: 38.928 ms

Loss rate: 0.34%

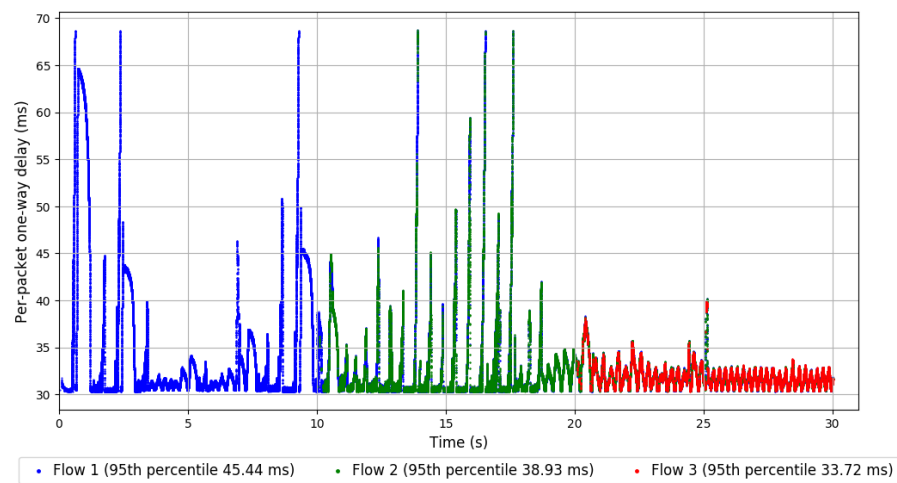
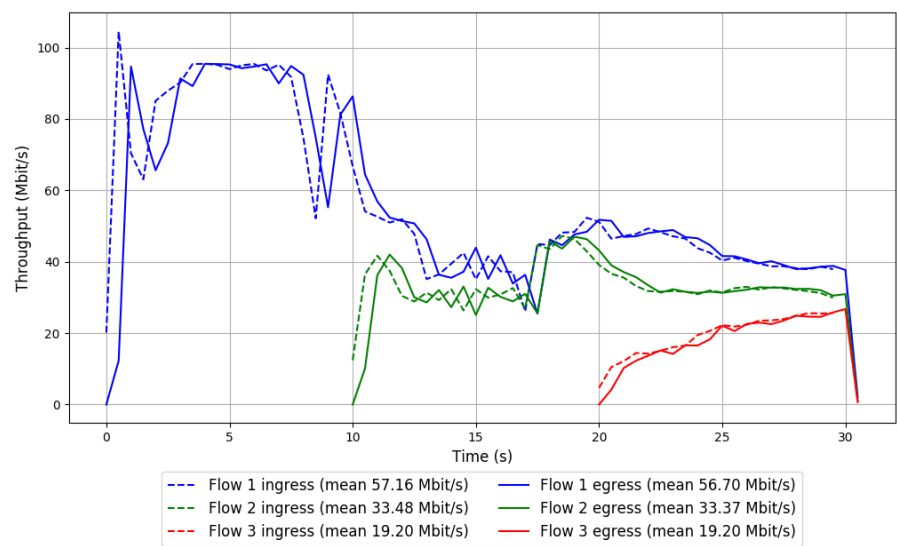
-- Flow 3:

Average throughput: 19.20 Mbit/s

95th percentile per-packet one-way delay: 33.720 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link

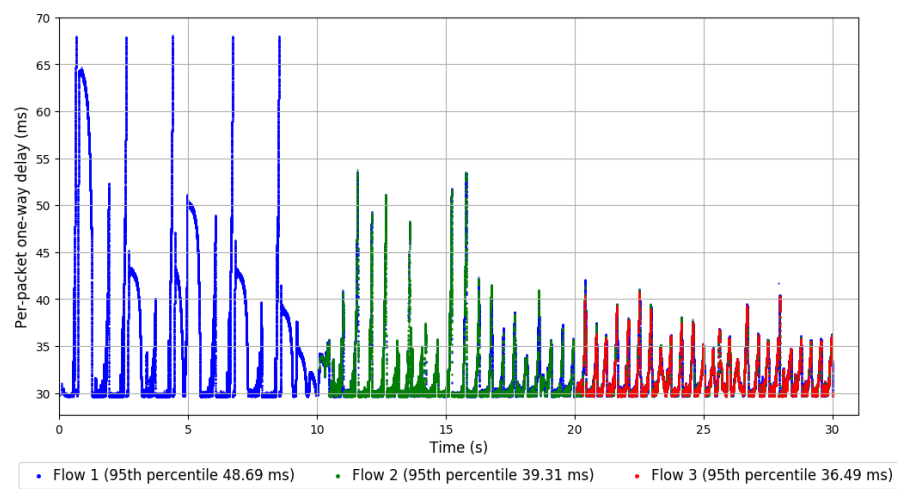
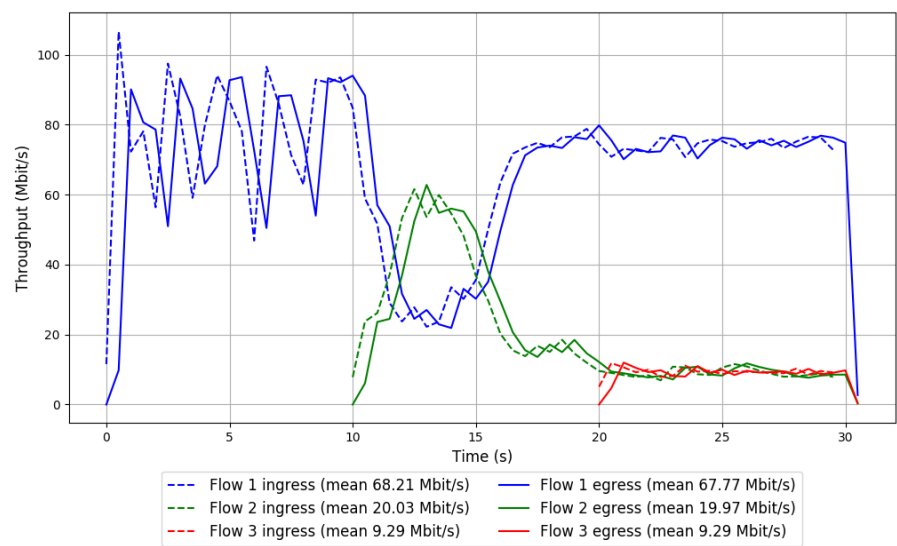


Run 6: Statistics of Copa

Start at: 2018-06-05 13:29:15
End at: 2018-06-05 13:29:45
Local clock offset: 0.039 ms
Remote clock offset: -0.206 ms

Below is generated by plot.py at 2018-06-05 15:05:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.17 Mbit/s
95th percentile per-packet one-way delay: 46.936 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 67.77 Mbit/s
95th percentile per-packet one-way delay: 48.694 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 19.97 Mbit/s
95th percentile per-packet one-way delay: 39.306 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 36.494 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-05 13:50:40

End at: 2018-06-05 13:51:10

Local clock offset: 0.023 ms

Remote clock offset: 0.278 ms

Below is generated by plot.py at 2018-06-05 15:06:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.01 Mbit/s

95th percentile per-packet one-way delay: 40.957 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 65.25 Mbit/s

95th percentile per-packet one-way delay: 41.094 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 16.52 Mbit/s

95th percentile per-packet one-way delay: 41.382 ms

Loss rate: 0.46%

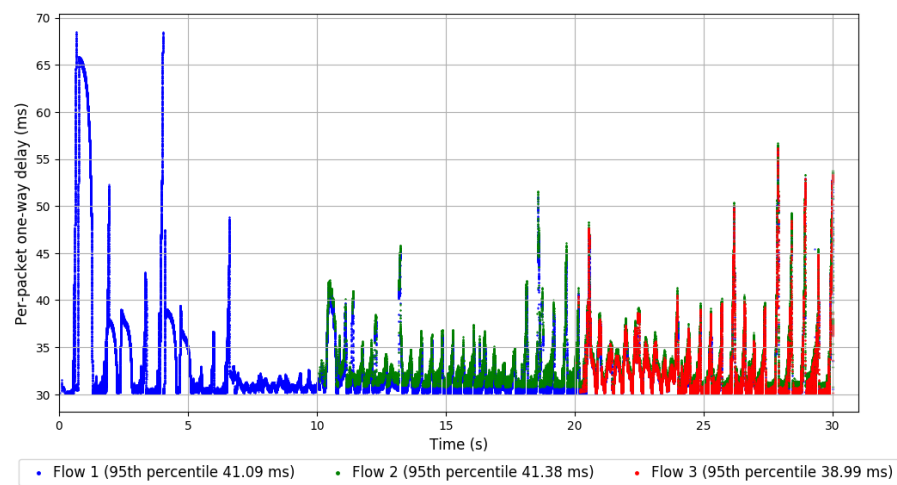
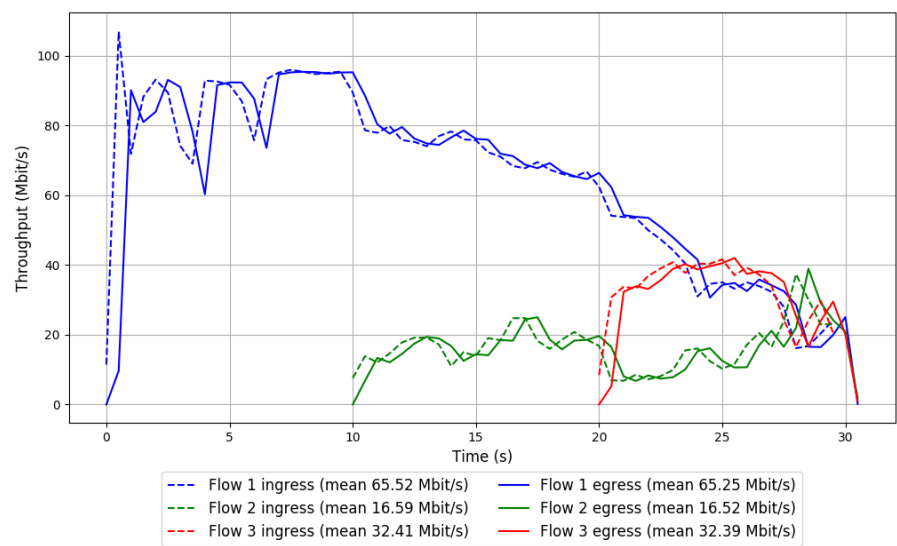
-- Flow 3:

Average throughput: 32.39 Mbit/s

95th percentile per-packet one-way delay: 38.991 ms

Loss rate: 0.09%

Run 7: Report of Copa — Data Link

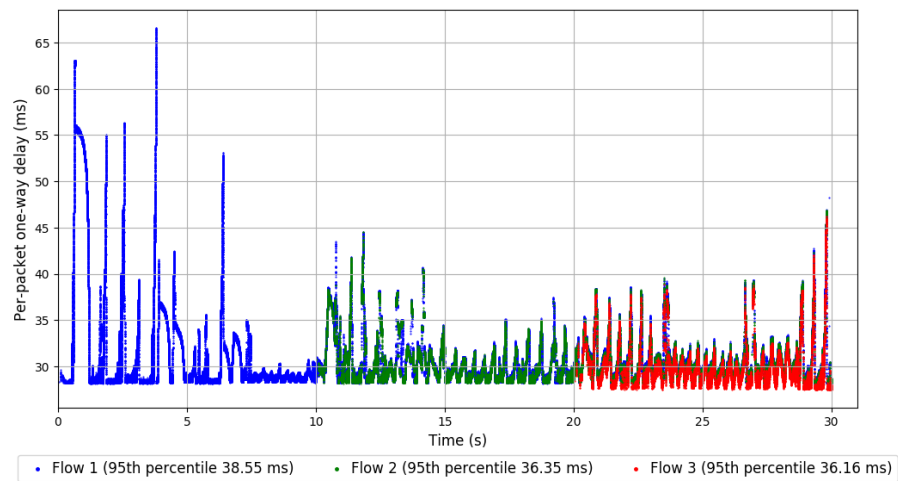
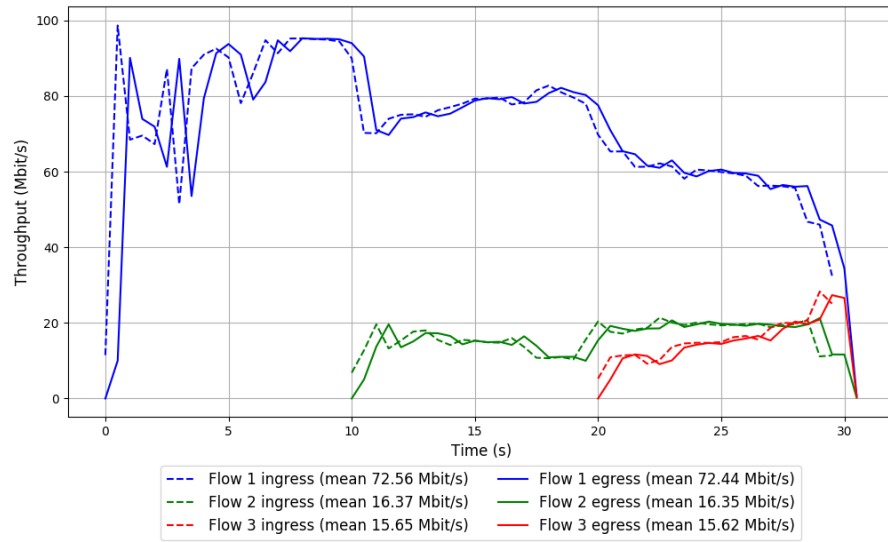


Run 8: Statistics of Copa

Start at: 2018-06-05 14:12:14
End at: 2018-06-05 14:12:44
Local clock offset: -0.055 ms
Remote clock offset: -2.561 ms

Below is generated by plot.py at 2018-06-05 15:06:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.51 Mbit/s
95th percentile per-packet one-way delay: 37.937 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 72.44 Mbit/s
95th percentile per-packet one-way delay: 38.551 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 16.35 Mbit/s
95th percentile per-packet one-way delay: 36.348 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 15.62 Mbit/s
95th percentile per-packet one-way delay: 36.157 ms
Loss rate: 0.23%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-05 14:33:52

End at: 2018-06-05 14:34:22

Local clock offset: -0.227 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2018-06-05 15:07:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.14 Mbit/s

95th percentile per-packet one-way delay: 42.328 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 70.57 Mbit/s

95th percentile per-packet one-way delay: 43.188 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 16.38 Mbit/s

95th percentile per-packet one-way delay: 38.214 ms

Loss rate: 0.13%

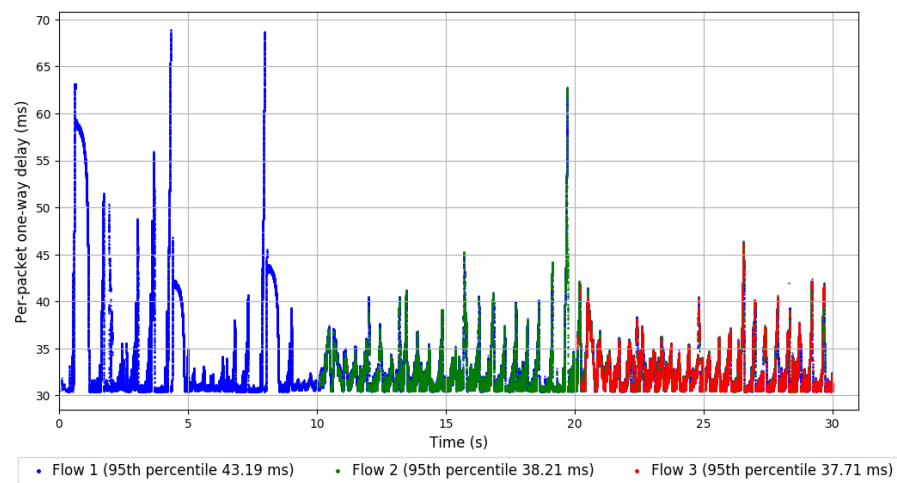
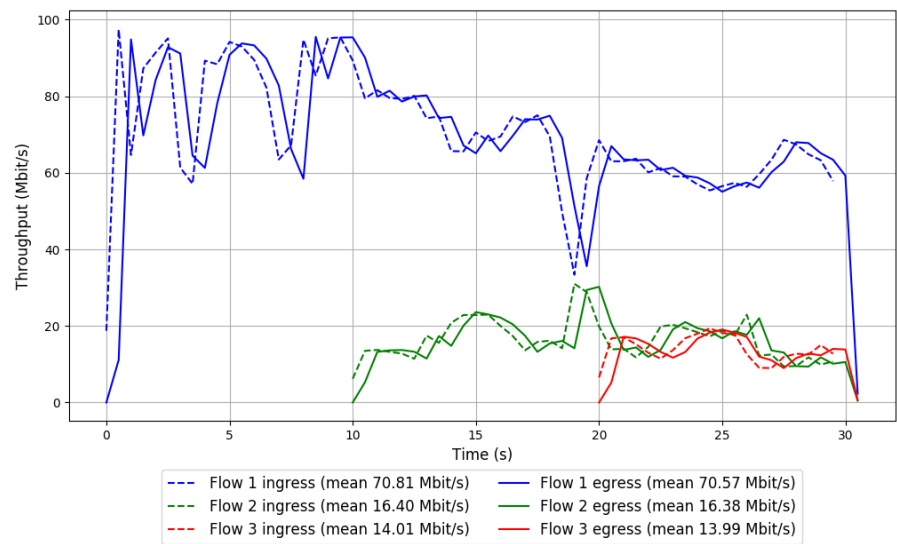
-- Flow 3:

Average throughput: 13.99 Mbit/s

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

Loss rate: 0.09%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-05 14:55:24

End at: 2018-06-05 14:55:54

Local clock offset: -0.079 ms

Remote clock offset: 0.727 ms

Below is generated by plot.py at 2018-06-05 15:07:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.79 Mbit/s

95th percentile per-packet one-way delay: 44.649 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 61.50 Mbit/s

95th percentile per-packet one-way delay: 45.303 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 22.76 Mbit/s

95th percentile per-packet one-way delay: 39.399 ms

Loss rate: 0.03%

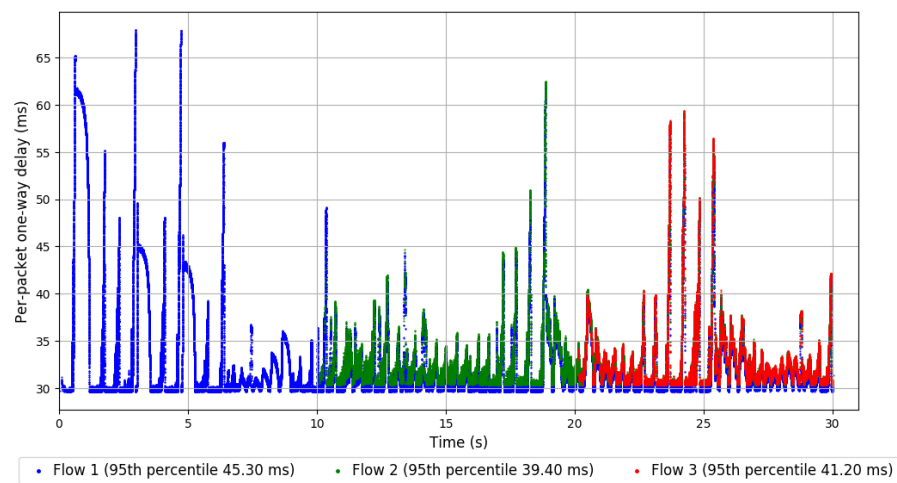
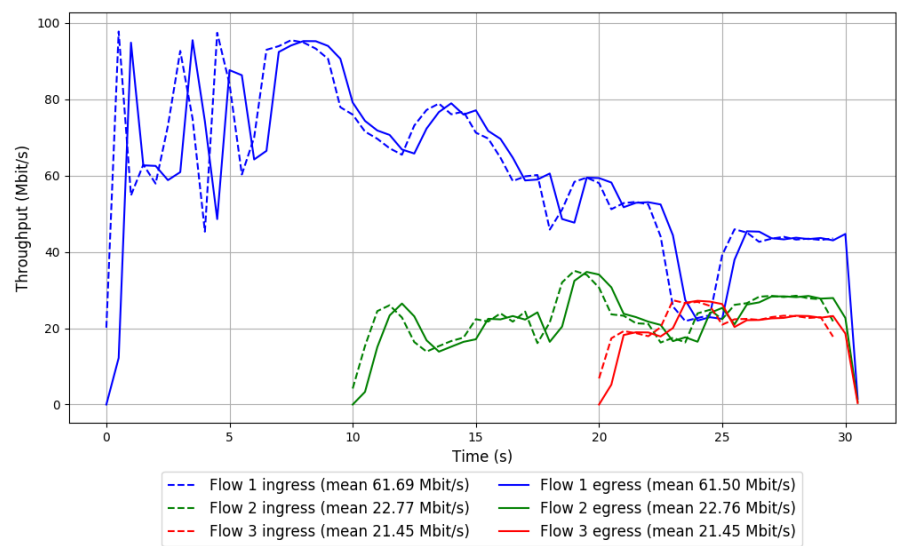
-- Flow 3:

Average throughput: 21.45 Mbit/s

95th percentile per-packet one-way delay: 41.202 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

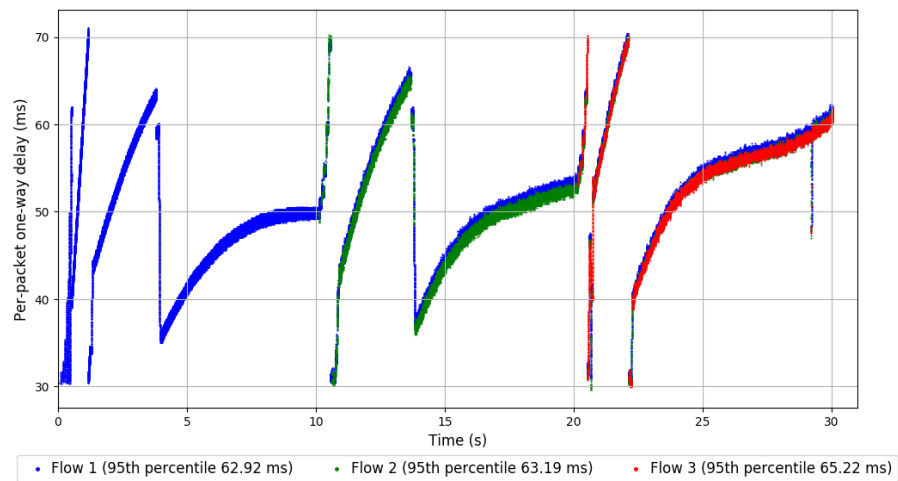
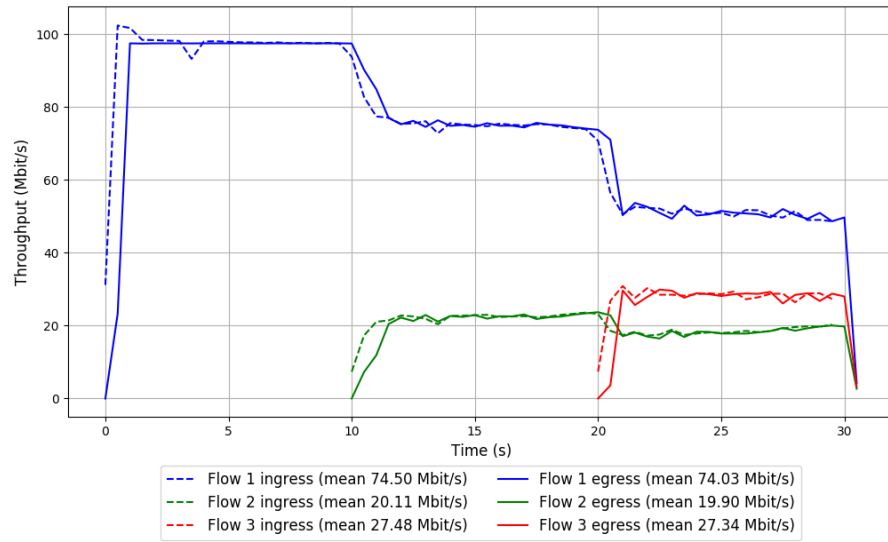


Run 1: Statistics of TCP Cubic

Start at: 2018-06-05 11:28:14
End at: 2018-06-05 11:28:44
Local clock offset: 0.093 ms
Remote clock offset: -0.265 ms

Below is generated by plot.py at 2018-06-05 15:07:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.37 Mbit/s
95th percentile per-packet one-way delay: 62.988 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 74.03 Mbit/s
95th percentile per-packet one-way delay: 62.919 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 19.90 Mbit/s
95th percentile per-packet one-way delay: 63.192 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 27.34 Mbit/s
95th percentile per-packet one-way delay: 65.217 ms
Loss rate: 0.43%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-05 11:49:41

End at: 2018-06-05 11:50:11

Local clock offset: 0.24 ms

Remote clock offset: 0.779 ms

Below is generated by plot.py at 2018-06-05 15:07:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 68.191 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 69.45 Mbit/s

95th percentile per-packet one-way delay: 68.421 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 26.96 Mbit/s

95th percentile per-packet one-way delay: 67.431 ms

Loss rate: 0.26%

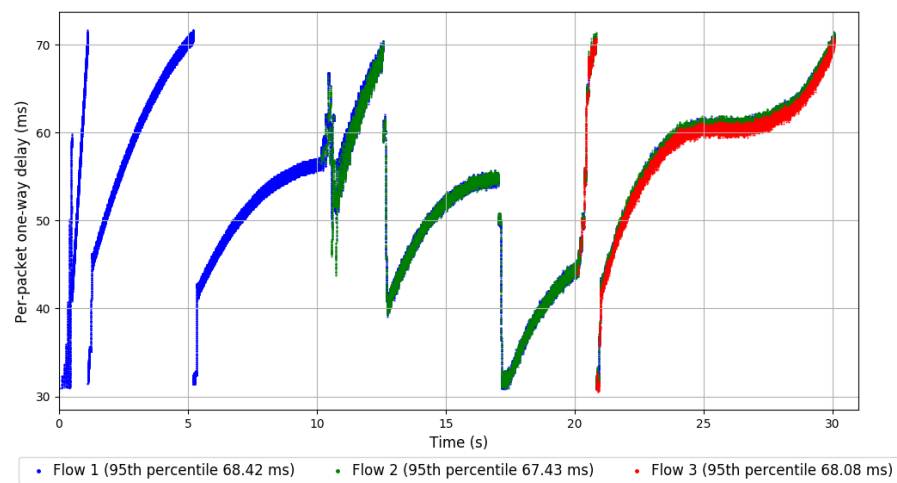
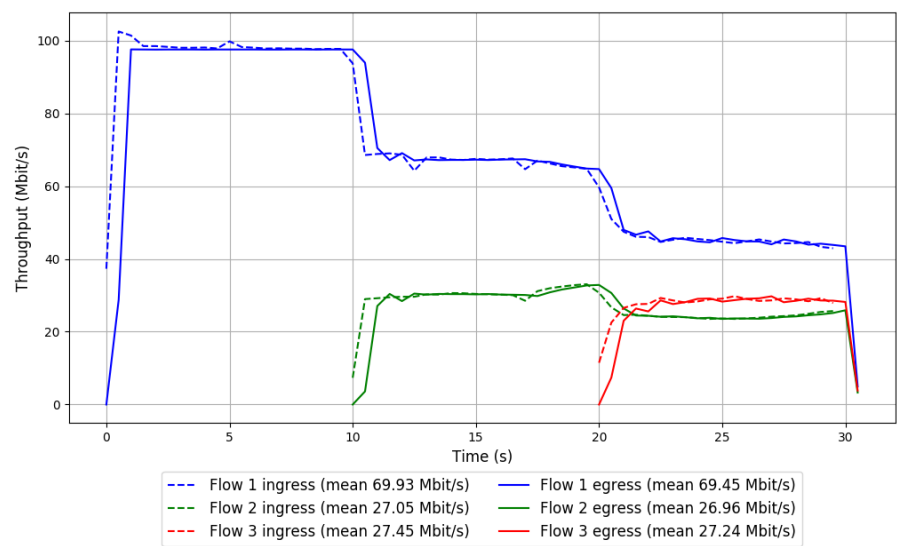
-- Flow 3:

Average throughput: 27.24 Mbit/s

95th percentile per-packet one-way delay: 68.080 ms

Loss rate: 0.49%

Run 2: Report of TCP Cubic — Data Link

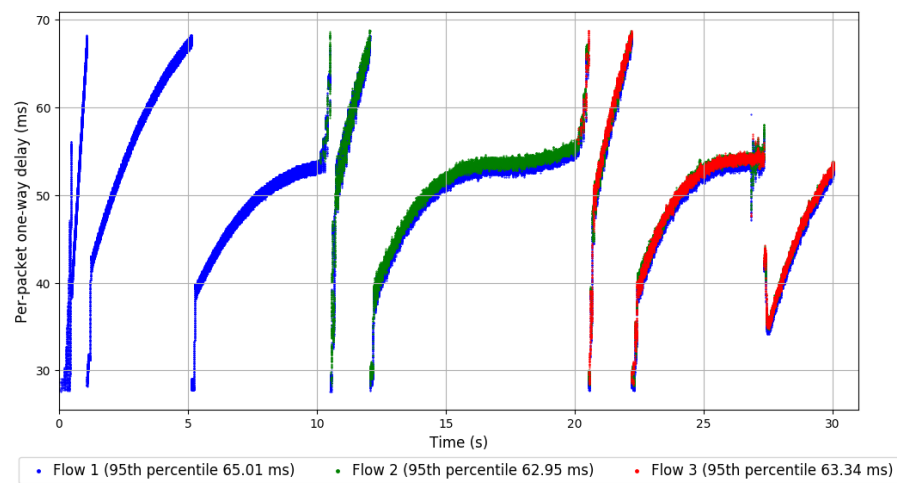
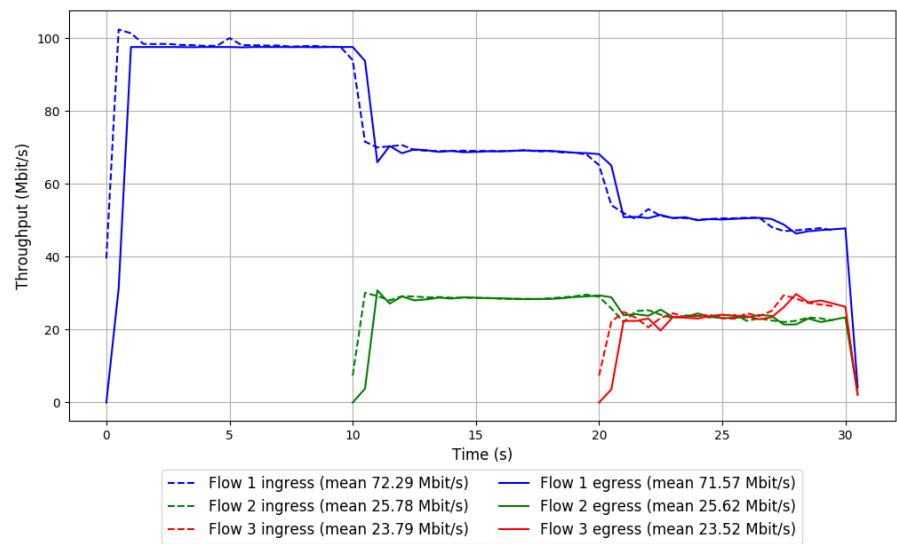


Run 3: Statistics of TCP Cubic

Start at: 2018-06-05 12:11:11
End at: 2018-06-05 12:11:41
Local clock offset: 0.149 ms
Remote clock offset: -1.775 ms

Below is generated by plot.py at 2018-06-05 15:07:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.45 Mbit/s
95th percentile per-packet one-way delay: 64.605 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 71.57 Mbit/s
95th percentile per-packet one-way delay: 65.011 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 25.62 Mbit/s
95th percentile per-packet one-way delay: 62.949 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 23.52 Mbit/s
95th percentile per-packet one-way delay: 63.336 ms
Loss rate: 1.20%

Run 3: Report of TCP Cubic — Data Link

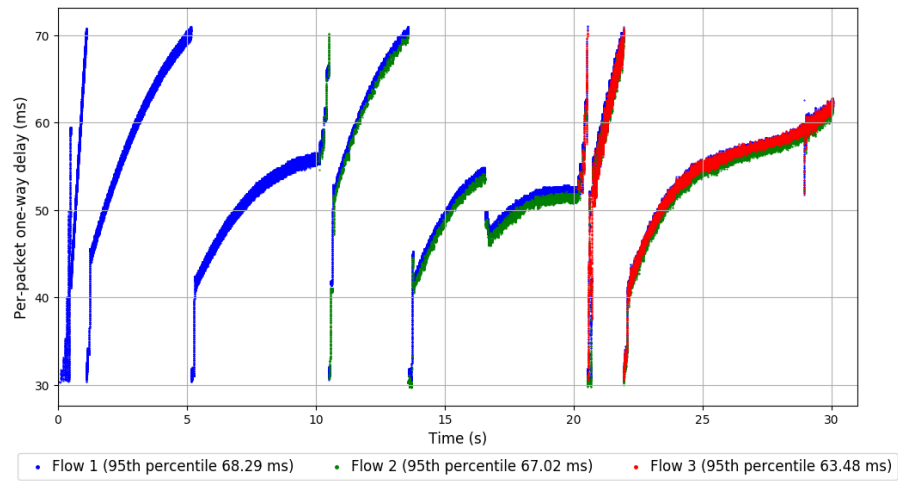
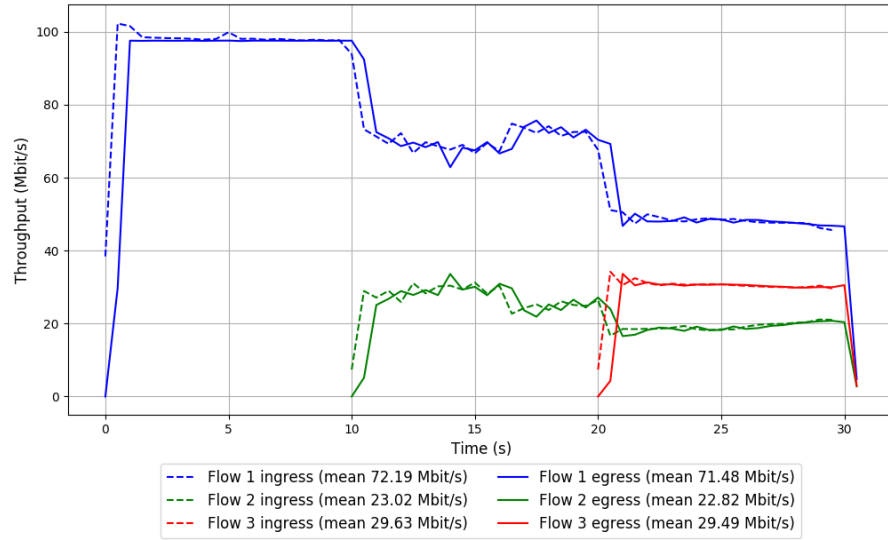


Run 4: Statistics of TCP Cubic

Start at: 2018-06-05 12:32:44
End at: 2018-06-05 12:33:14
Local clock offset: -0.111 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-06-05 15:07:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 67.856 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 71.48 Mbit/s
95th percentile per-packet one-way delay: 68.292 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 22.82 Mbit/s
95th percentile per-packet one-way delay: 67.020 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 29.49 Mbit/s
95th percentile per-packet one-way delay: 63.484 ms
Loss rate: 0.40%

Run 4: Report of TCP Cubic — Data Link

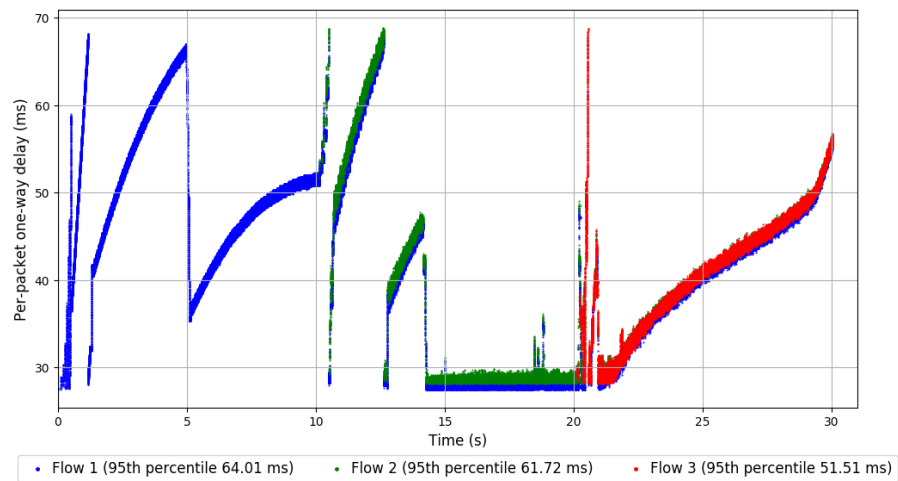
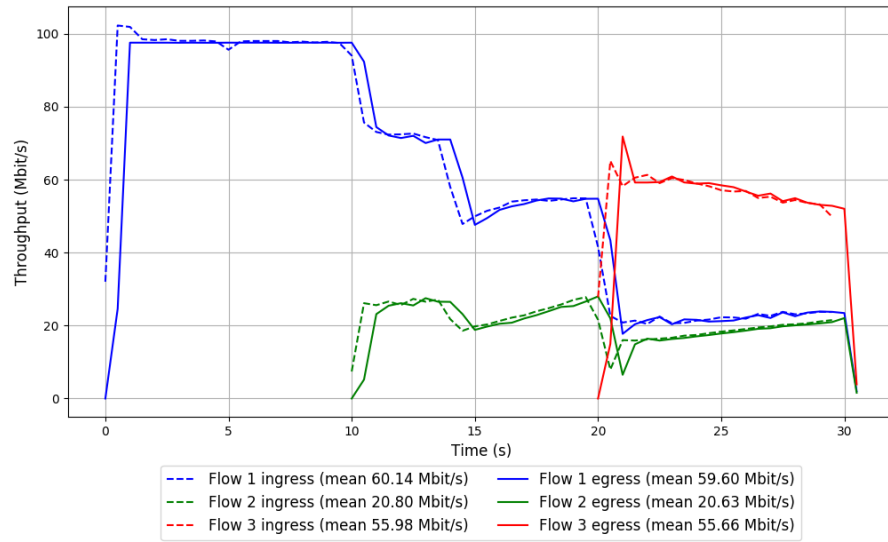


Run 5: Statistics of TCP Cubic

Start at: 2018-06-05 12:54:16
End at: 2018-06-05 12:54:46
Local clock offset: 0.263 ms
Remote clock offset: -2.233 ms

Below is generated by plot.py at 2018-06-05 15:07:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 63.012 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 59.60 Mbit/s
95th percentile per-packet one-way delay: 64.008 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 20.63 Mbit/s
95th percentile per-packet one-way delay: 61.716 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 55.66 Mbit/s
95th percentile per-packet one-way delay: 51.514 ms
Loss rate: 0.29%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-05 13:15:47

End at: 2018-06-05 13:16:17

Local clock offset: 0.036 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-06-05 15:07:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.37 Mbit/s

95th percentile per-packet one-way delay: 64.016 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 69.91 Mbit/s

95th percentile per-packet one-way delay: 65.183 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 23.51 Mbit/s

95th percentile per-packet one-way delay: 59.021 ms

Loss rate: 0.34%

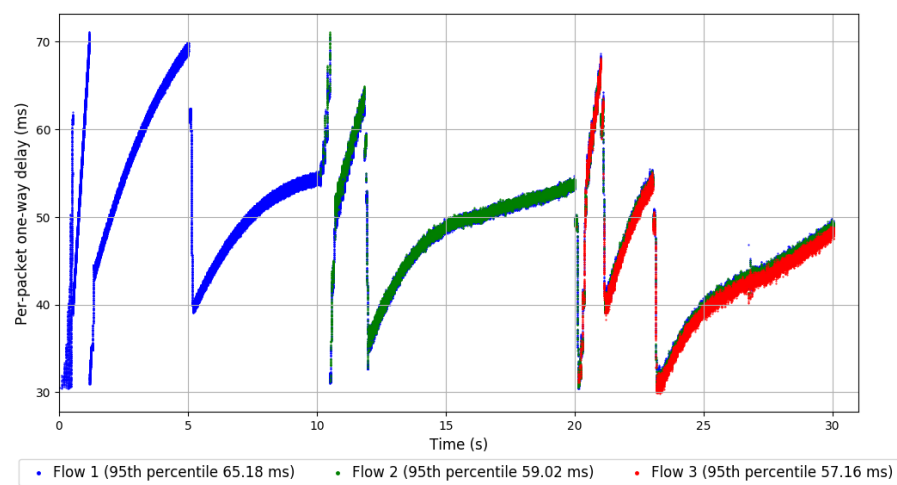
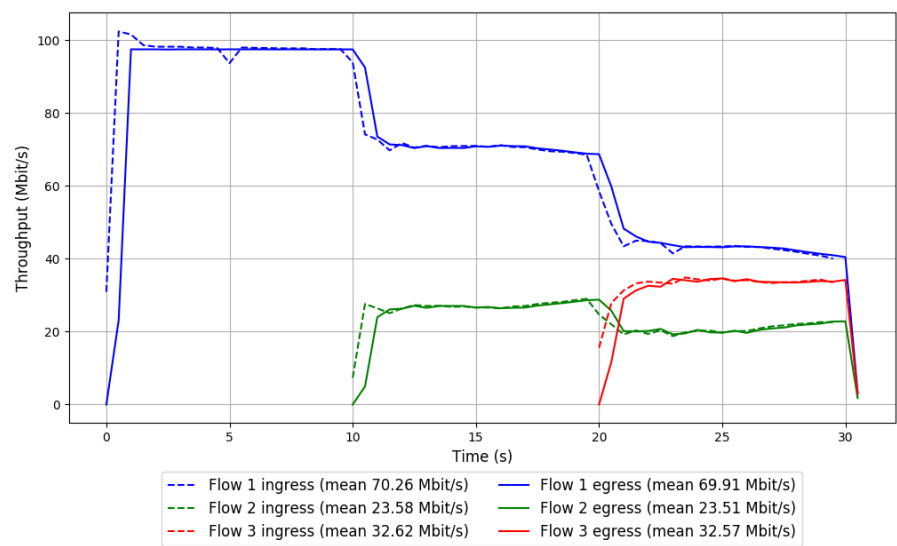
-- Flow 3:

Average throughput: 32.57 Mbit/s

95th percentile per-packet one-way delay: 57.161 ms

Loss rate: 0.17%

Run 6: Report of TCP Cubic — Data Link

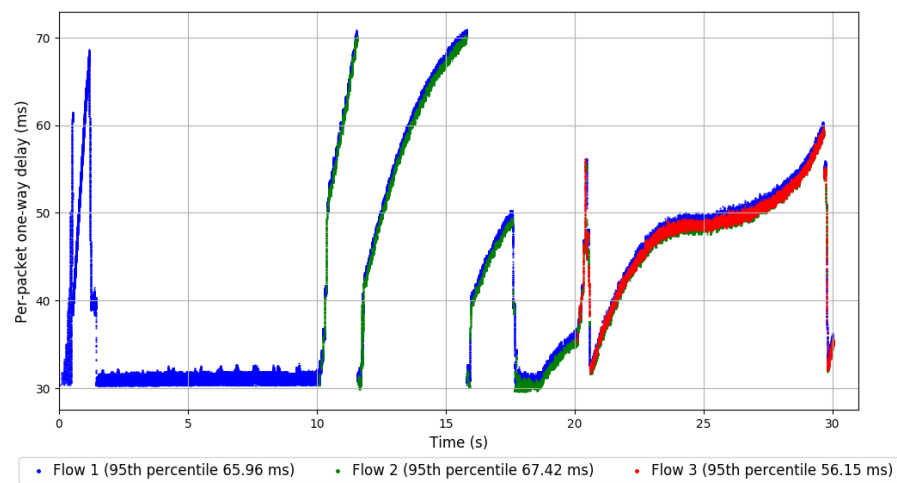
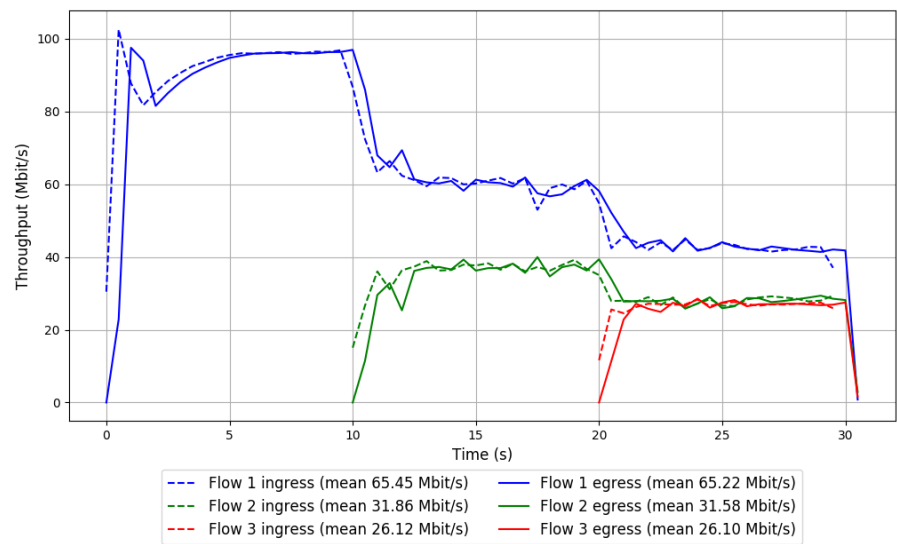


Run 7: Statistics of TCP Cubic

Start at: 2018-06-05 13:37:17
End at: 2018-06-05 13:37:47
Local clock offset: 0.019 ms
Remote clock offset: -0.205 ms

Below is generated by plot.py at 2018-06-05 15:07:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.93 Mbit/s
95th percentile per-packet one-way delay: 66.165 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 65.22 Mbit/s
95th percentile per-packet one-way delay: 65.956 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 31.58 Mbit/s
95th percentile per-packet one-way delay: 67.425 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 26.10 Mbit/s
95th percentile per-packet one-way delay: 56.147 ms
Loss rate: 0.07%

Run 7: Report of TCP Cubic — Data Link

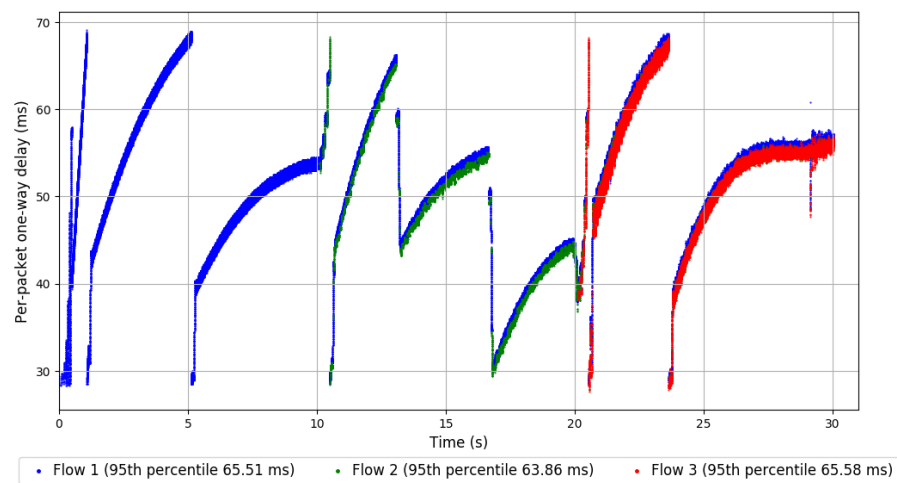
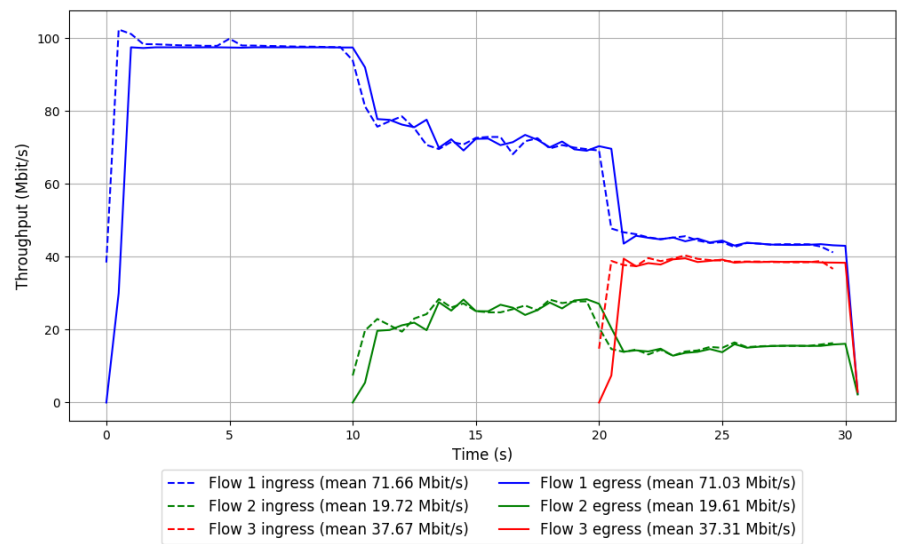


Run 8: Statistics of TCP Cubic

Start at: 2018-06-05 13:58:43
End at: 2018-06-05 13:59:13
Local clock offset: -0.077 ms
Remote clock offset: -2.435 ms

Below is generated by plot.py at 2018-06-05 15:07:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 65.428 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 71.03 Mbit/s
95th percentile per-packet one-way delay: 65.513 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 19.61 Mbit/s
95th percentile per-packet one-way delay: 63.861 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 37.31 Mbit/s
95th percentile per-packet one-way delay: 65.580 ms
Loss rate: 0.82%

Run 8: Report of TCP Cubic — Data Link

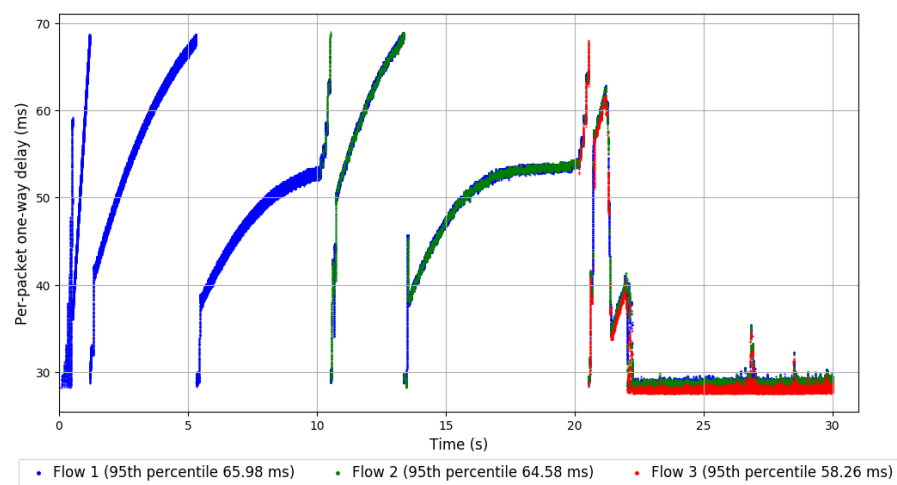
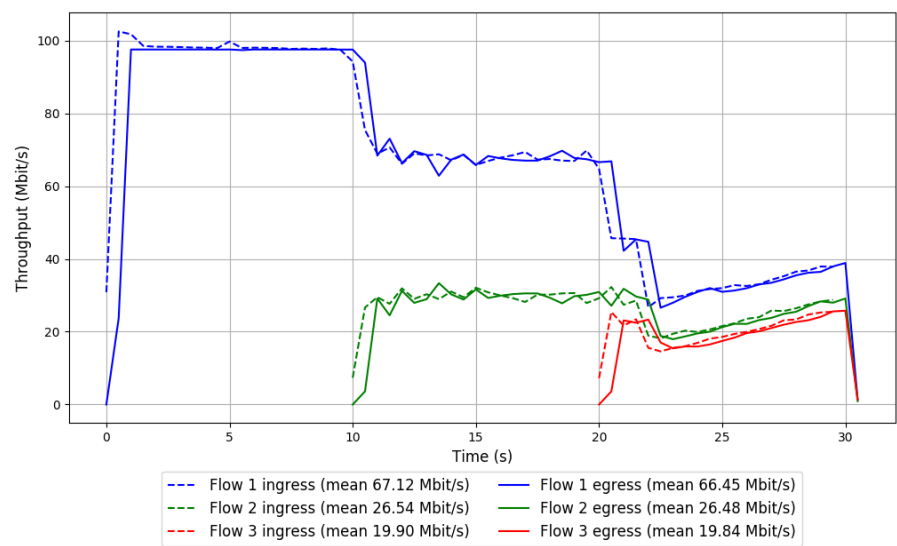


Run 9: Statistics of TCP Cubic

Start at: 2018-06-05 14:20:29
End at: 2018-06-05 14:20:59
Local clock offset: -0.06 ms
Remote clock offset: -2.545 ms

Below is generated by plot.py at 2018-06-05 15:07:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.64 Mbit/s
95th percentile per-packet one-way delay: 65.528 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 66.45 Mbit/s
95th percentile per-packet one-way delay: 65.984 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 26.48 Mbit/s
95th percentile per-packet one-way delay: 64.576 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 19.84 Mbit/s
95th percentile per-packet one-way delay: 58.264 ms
Loss rate: 0.57%

Run 9: Report of TCP Cubic — Data Link

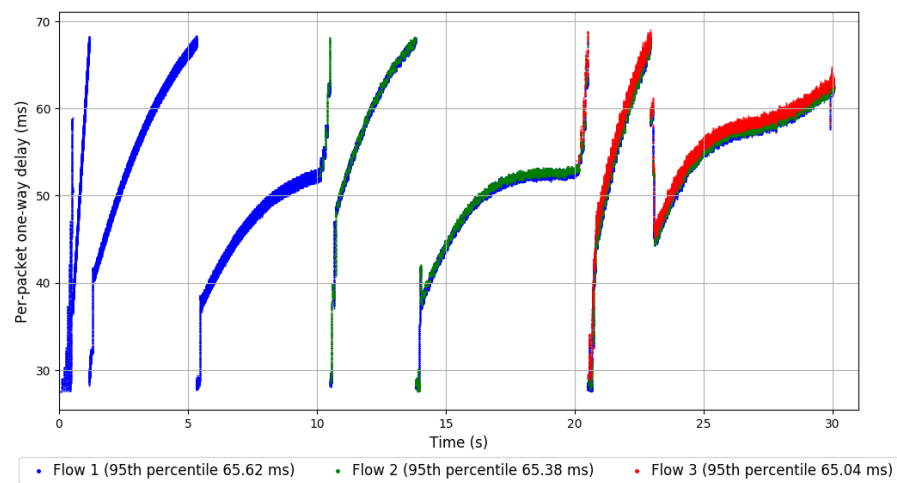
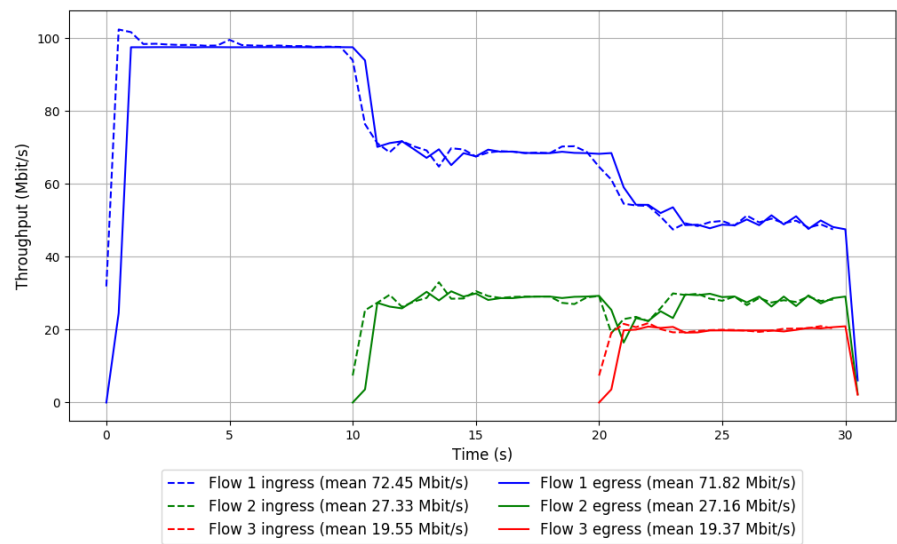


Run 10: Statistics of TCP Cubic

Start at: 2018-06-05 14:41:57
End at: 2018-06-05 14:42:27
Local clock offset: -0.082 ms
Remote clock offset: -1.538 ms

Below is generated by plot.py at 2018-06-05 15:07:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 65.586 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 71.82 Mbit/s
95th percentile per-packet one-way delay: 65.625 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 27.16 Mbit/s
95th percentile per-packet one-way delay: 65.378 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 19.37 Mbit/s
95th percentile per-packet one-way delay: 65.042 ms
Loss rate: 0.82%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-05 11:25:33

End at: 2018-06-05 11:26:03

Local clock offset: 0.096 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-06-05 15:08:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.96 Mbit/s

95th percentile per-packet one-way delay: 68.252 ms

Loss rate: 26.69%

-- Flow 1:

Average throughput: 62.93 Mbit/s

95th percentile per-packet one-way delay: 67.722 ms

Loss rate: 19.80%

-- Flow 2:

Average throughput: 27.86 Mbit/s

95th percentile per-packet one-way delay: 69.032 ms

Loss rate: 33.35%

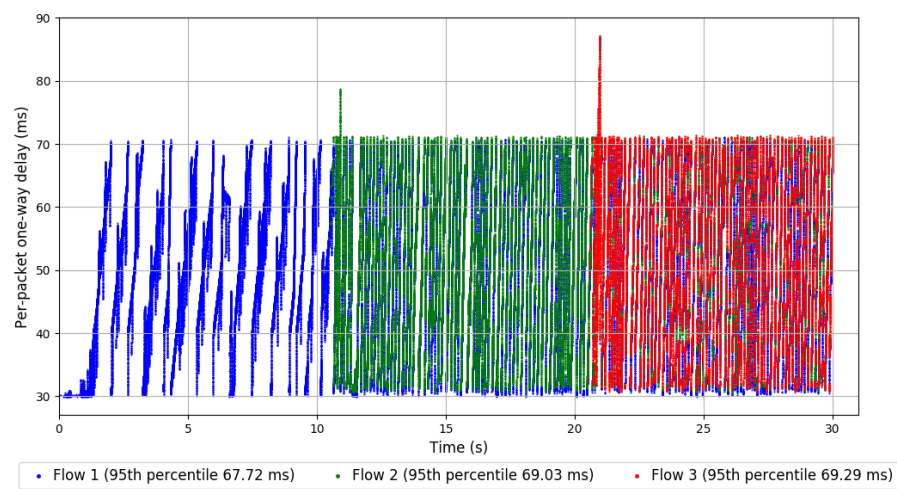
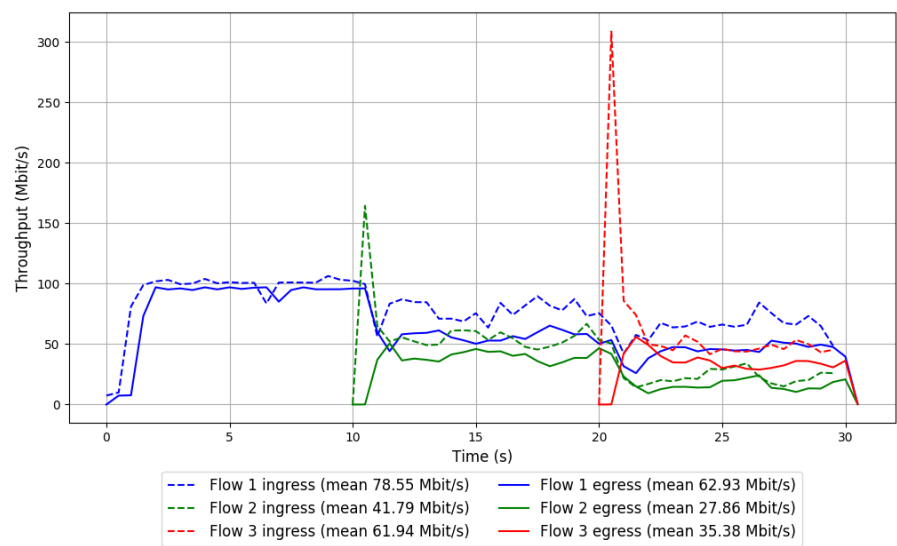
-- Flow 3:

Average throughput: 35.38 Mbit/s

95th percentile per-packet one-way delay: 69.287 ms

Loss rate: 43.98%

Run 1: Report of FillP — Data Link

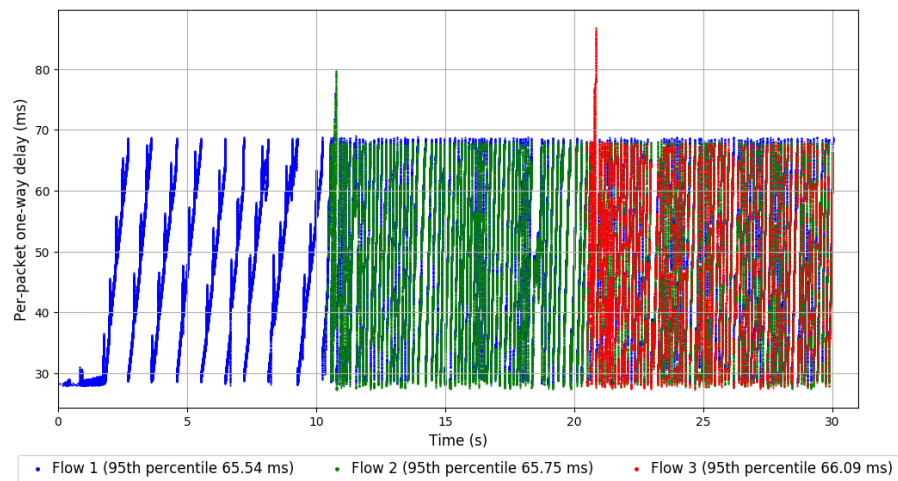
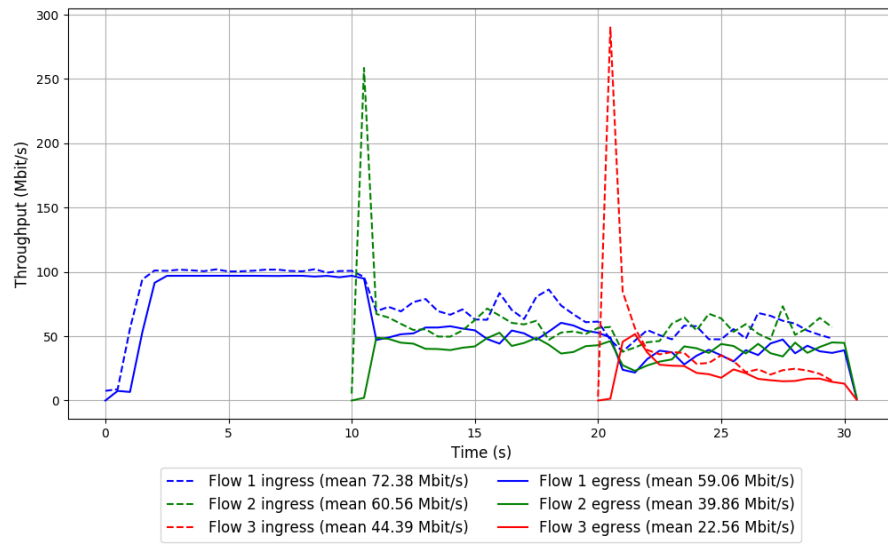


Run 2: Statistics of FillP

Start at: 2018-06-05 11:46:59
End at: 2018-06-05 11:47:29
Local clock offset: 0.335 ms
Remote clock offset: -1.863 ms

Below is generated by plot.py at 2018-06-05 15:08:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.05 Mbit/s
95th percentile per-packet one-way delay: 65.642 ms
Loss rate: 26.88%
-- Flow 1:
Average throughput: 59.06 Mbit/s
95th percentile per-packet one-way delay: 65.541 ms
Loss rate: 18.30%
-- Flow 2:
Average throughput: 39.86 Mbit/s
95th percentile per-packet one-way delay: 65.748 ms
Loss rate: 34.15%
-- Flow 3:
Average throughput: 22.56 Mbit/s
95th percentile per-packet one-way delay: 66.089 ms
Loss rate: 49.19%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-05 12:08:28

End at: 2018-06-05 12:08:58

Local clock offset: 0.223 ms

Remote clock offset: 0.916 ms

Below is generated by plot.py at 2018-06-05 15:09:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.71 Mbit/s

95th percentile per-packet one-way delay: 68.165 ms

Loss rate: 25.67%

-- Flow 1:

Average throughput: 64.66 Mbit/s

95th percentile per-packet one-way delay: 67.824 ms

Loss rate: 20.93%

-- Flow 2:

Average throughput: 29.16 Mbit/s

95th percentile per-packet one-way delay: 68.860 ms

Loss rate: 26.47%

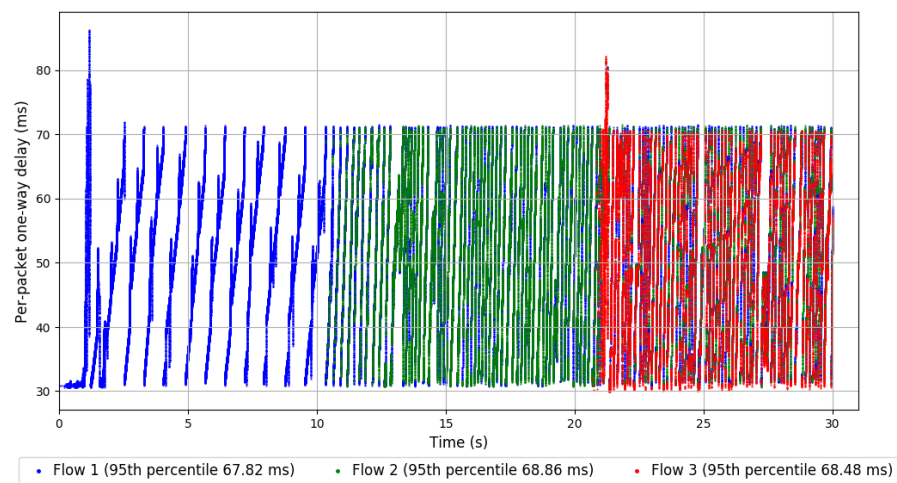
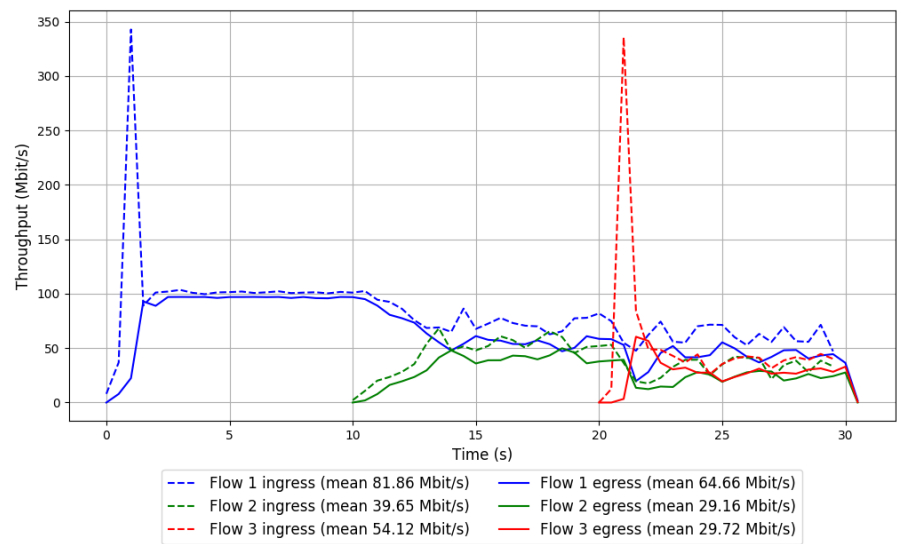
-- Flow 3:

Average throughput: 29.72 Mbit/s

95th percentile per-packet one-way delay: 68.480 ms

Loss rate: 46.13%

Run 3: Report of FillP — Data Link

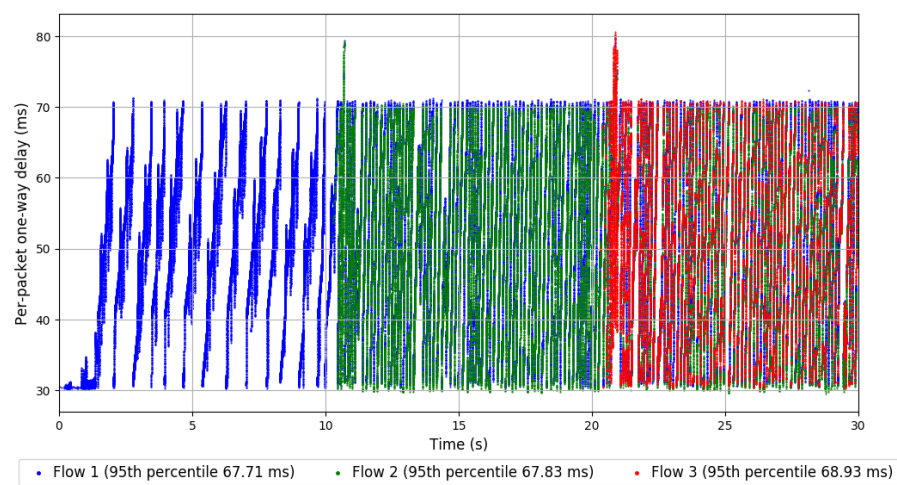
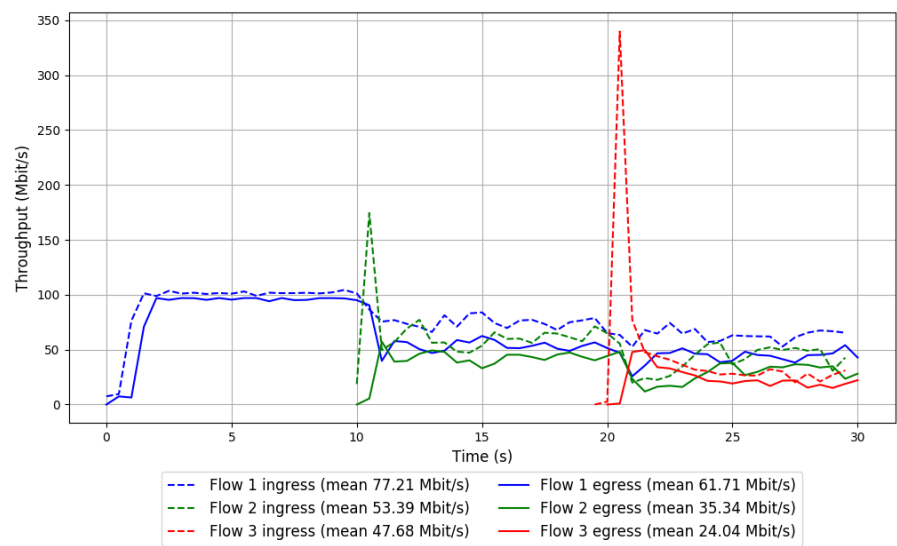


Run 4: Statistics of FillP

Start at: 2018-06-05 12:30:01
End at: 2018-06-05 12:30:31
Local clock offset: -0.19 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-06-05 15:09:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 67.851 ms
Loss rate: 27.51%
-- Flow 1:
Average throughput: 61.71 Mbit/s
95th percentile per-packet one-way delay: 67.709 ms
Loss rate: 20.05%
-- Flow 2:
Average throughput: 35.34 Mbit/s
95th percentile per-packet one-way delay: 67.833 ms
Loss rate: 33.82%
-- Flow 3:
Average throughput: 24.04 Mbit/s
95th percentile per-packet one-way delay: 68.928 ms
Loss rate: 49.71%

Run 4: Report of FillP — Data Link

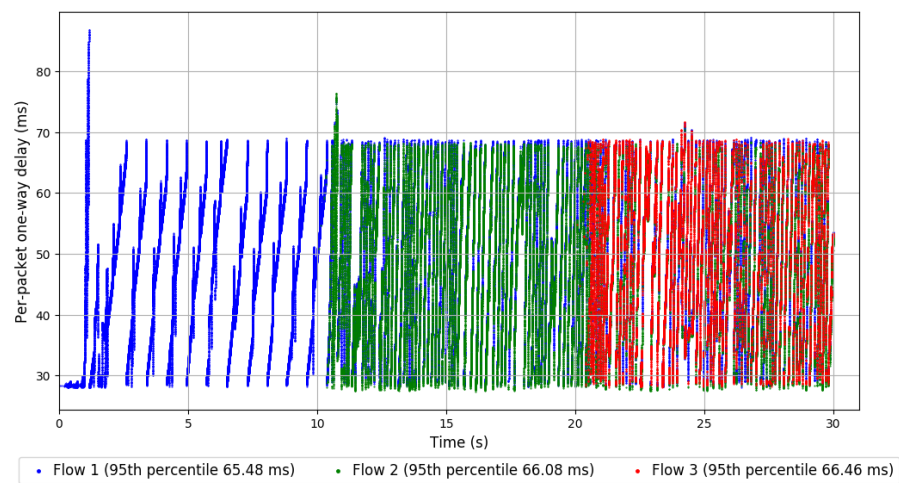
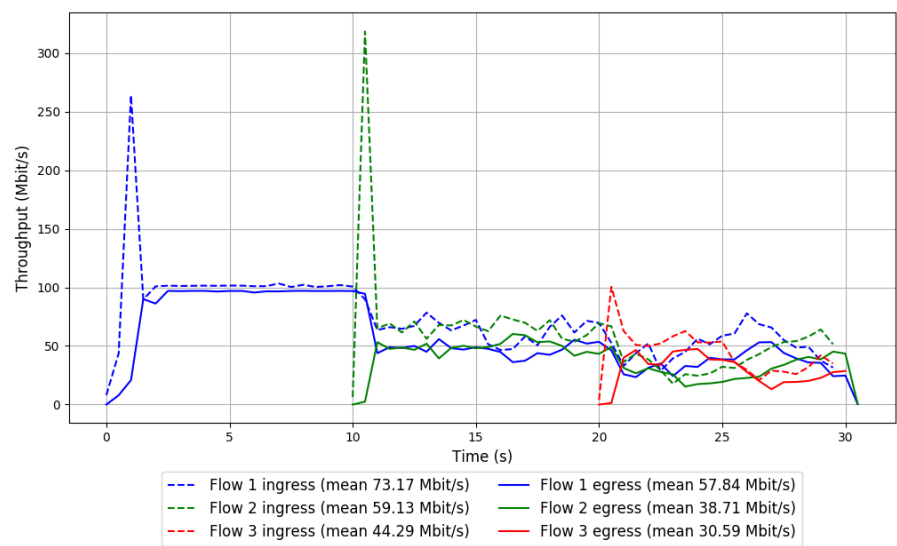


Run 5: Statistics of FillP

Start at: 2018-06-05 12:51:33
End at: 2018-06-05 12:52:03
Local clock offset: 0.257 ms
Remote clock offset: -2.138 ms

Below is generated by plot.py at 2018-06-05 15:09:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 65.842 ms
Loss rate: 26.27%
-- Flow 1:
Average throughput: 57.84 Mbit/s
95th percentile per-packet one-way delay: 65.482 ms
Loss rate: 20.88%
-- Flow 2:
Average throughput: 38.71 Mbit/s
95th percentile per-packet one-way delay: 66.084 ms
Loss rate: 34.53%
-- Flow 3:
Average throughput: 30.59 Mbit/s
95th percentile per-packet one-way delay: 66.463 ms
Loss rate: 30.94%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-05 13:13:04

End at: 2018-06-05 13:13:34

Local clock offset: 0.058 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-06-05 15:09:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.79 Mbit/s

95th percentile per-packet one-way delay: 68.037 ms

Loss rate: 27.22%

-- Flow 1:

Average throughput: 61.29 Mbit/s

95th percentile per-packet one-way delay: 67.650 ms

Loss rate: 22.05%

-- Flow 2:

Average throughput: 35.78 Mbit/s

95th percentile per-packet one-way delay: 68.394 ms

Loss rate: 27.62%

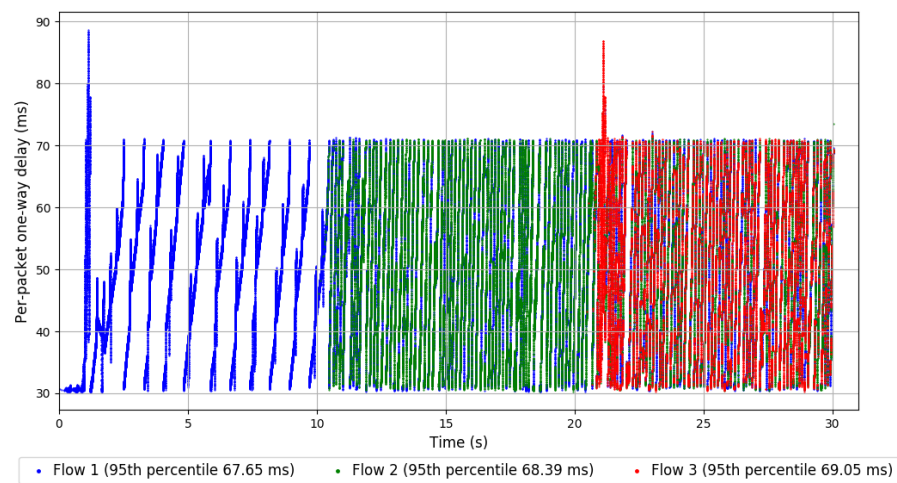
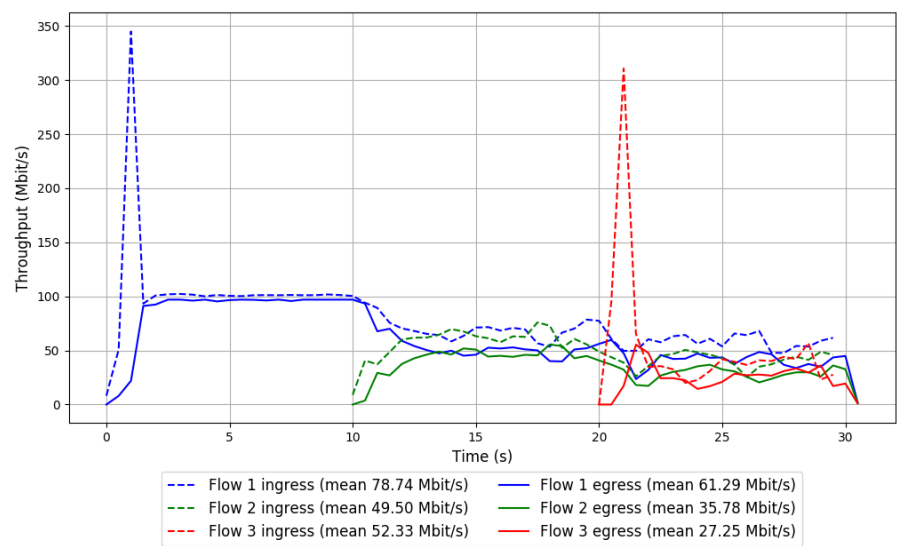
-- Flow 3:

Average throughput: 27.25 Mbit/s

95th percentile per-packet one-way delay: 69.045 ms

Loss rate: 49.89%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-05 13:34:35

End at: 2018-06-05 13:35:05

Local clock offset: 0.019 ms

Remote clock offset: 0.231 ms

Below is generated by plot.py at 2018-06-05 15:09:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.38 Mbit/s

95th percentile per-packet one-way delay: 68.195 ms

Loss rate: 27.81%

-- Flow 1:

Average throughput: 61.67 Mbit/s

95th percentile per-packet one-way delay: 67.643 ms

Loss rate: 22.43%

-- Flow 2:

Average throughput: 32.95 Mbit/s

95th percentile per-packet one-way delay: 68.975 ms

Loss rate: 29.14%

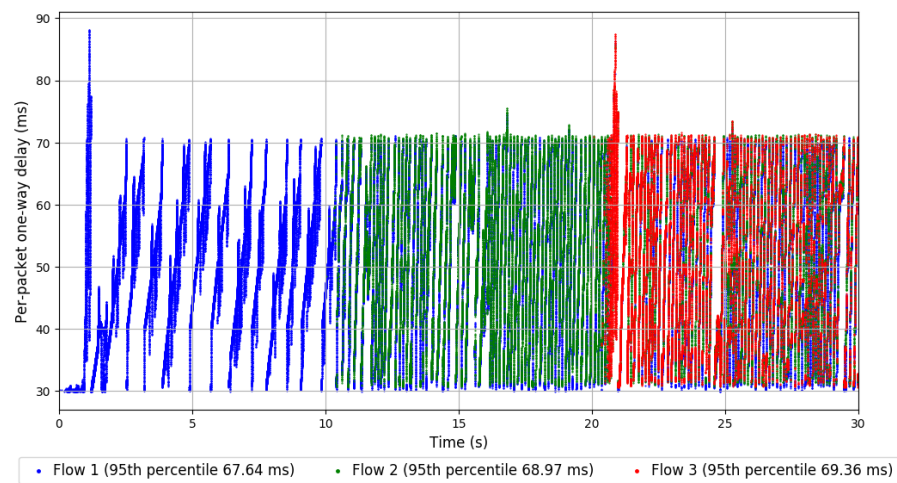
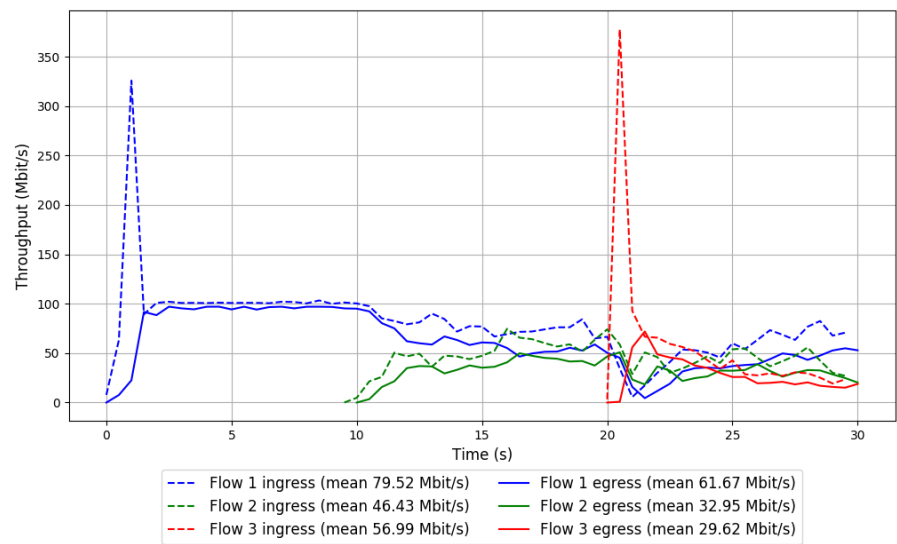
-- Flow 3:

Average throughput: 29.62 Mbit/s

95th percentile per-packet one-way delay: 69.355 ms

Loss rate: 48.23%

Run 7: Report of FillP — Data Link

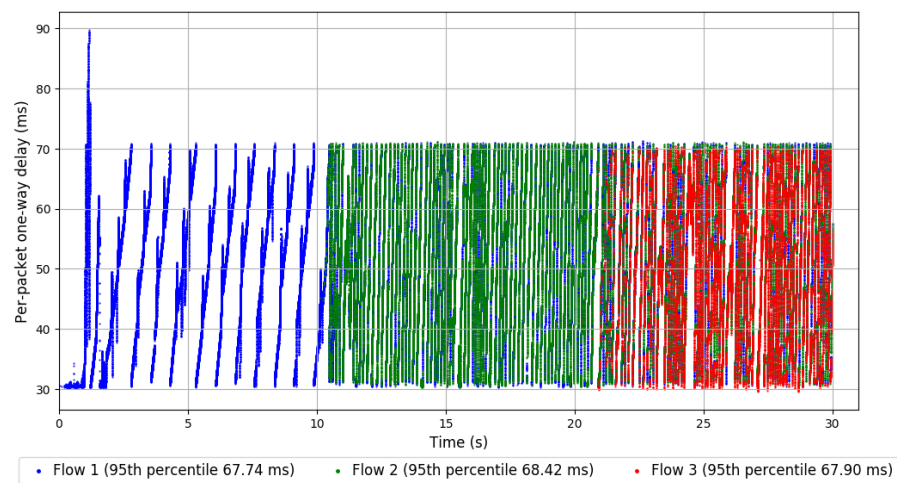
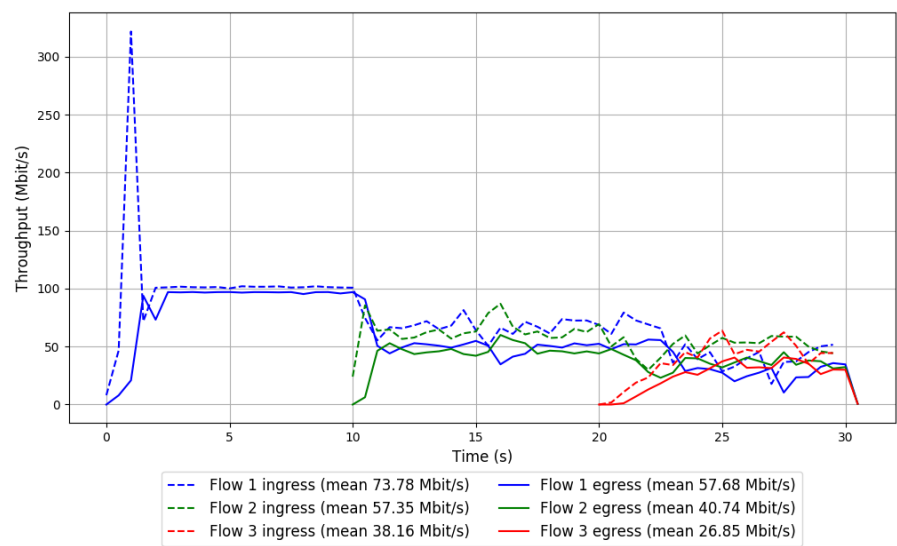


Run 8: Statistics of FillP

Start at: 2018-06-05 13:56:01
End at: 2018-06-05 13:56:31
Local clock offset: 0.02 ms
Remote clock offset: -0.214 ms

Below is generated by plot.py at 2018-06-05 15:09:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 67.978 ms
Loss rate: 24.88%
-- Flow 1:
Average throughput: 57.68 Mbit/s
95th percentile per-packet one-way delay: 67.736 ms
Loss rate: 21.76%
-- Flow 2:
Average throughput: 40.74 Mbit/s
95th percentile per-packet one-way delay: 68.421 ms
Loss rate: 28.89%
-- Flow 3:
Average throughput: 26.85 Mbit/s
95th percentile per-packet one-way delay: 67.896 ms
Loss rate: 30.97%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-05 14:17:45

End at: 2018-06-05 14:18:15

Local clock offset: -0.161 ms

Remote clock offset: 0.086 ms

Below is generated by plot.py at 2018-06-05 15:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.76 Mbit/s

95th percentile per-packet one-way delay: 68.337 ms

Loss rate: 27.89%

-- Flow 1:

Average throughput: 62.58 Mbit/s

95th percentile per-packet one-way delay: 67.704 ms

Loss rate: 22.89%

-- Flow 2:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 69.150 ms

Loss rate: 31.27%

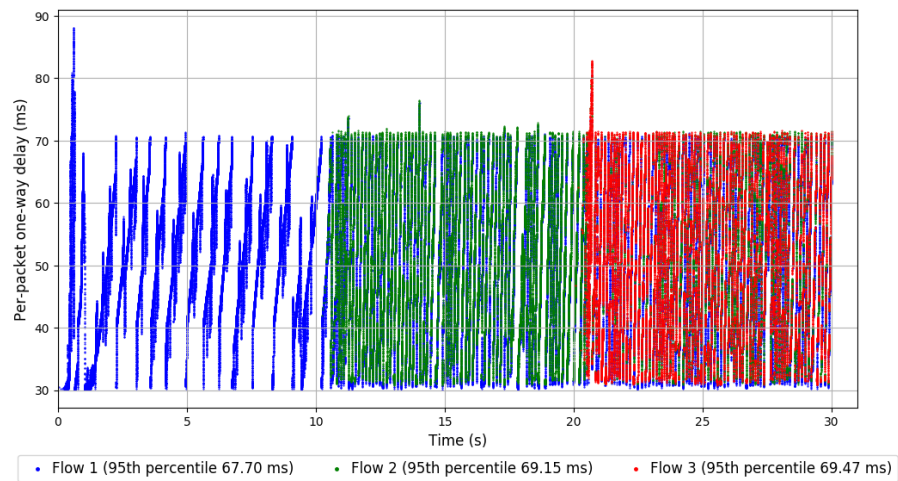
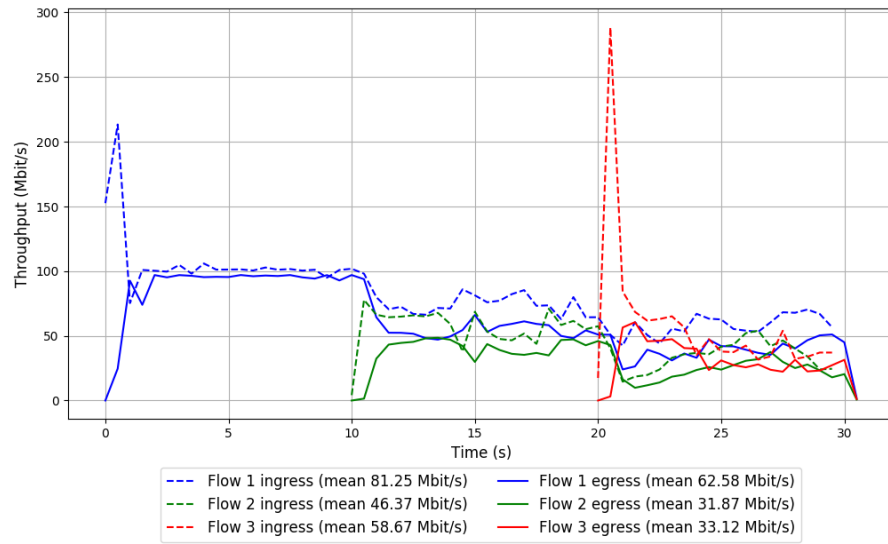
-- Flow 3:

Average throughput: 33.12 Mbit/s

95th percentile per-packet one-way delay: 69.470 ms

Loss rate: 43.44%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-05 14:39:14

End at: 2018-06-05 14:39:44

Local clock offset: -0.18 ms

Remote clock offset: 0.507 ms

Below is generated by plot.py at 2018-06-05 15:10:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.13 Mbit/s

95th percentile per-packet one-way delay: 67.938 ms

Loss rate: 29.00%

-- Flow 1:

Average throughput: 59.17 Mbit/s

95th percentile per-packet one-way delay: 67.306 ms

Loss rate: 22.03%

-- Flow 2:

Average throughput: 44.07 Mbit/s

95th percentile per-packet one-way delay: 68.758 ms

Loss rate: 33.84%

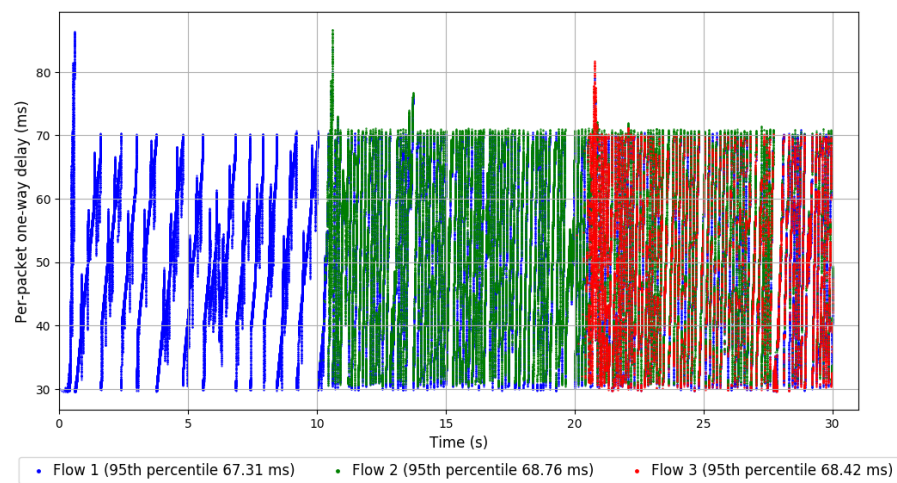
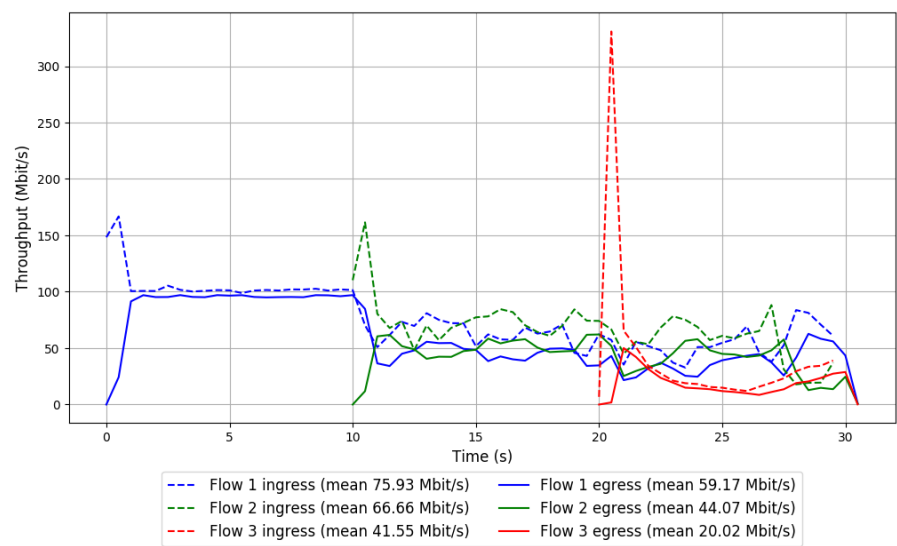
-- Flow 3:

Average throughput: 20.02 Mbit/s

95th percentile per-packet one-way delay: 68.418 ms

Loss rate: 51.84%

Run 10: Report of FillP — Data Link

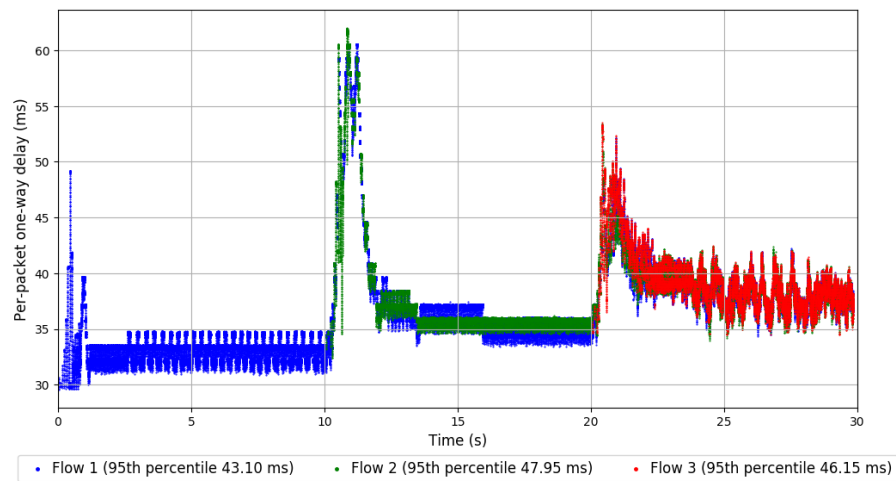
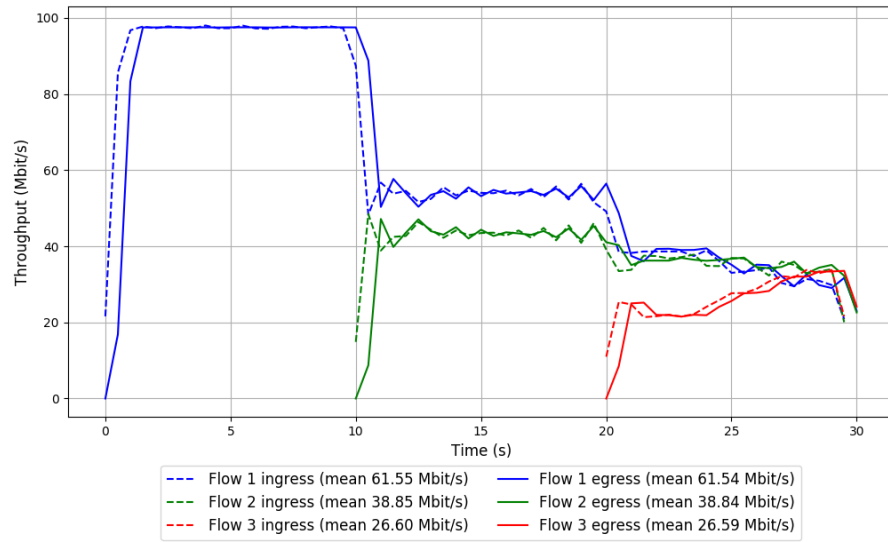


Run 1: Statistics of Indigo

Start at: 2018-06-05 11:26:53
End at: 2018-06-05 11:27:23
Local clock offset: 0.106 ms
Remote clock offset: -0.277 ms

Below is generated by plot.py at 2018-06-05 15:10:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 44.504 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.54 Mbit/s
95th percentile per-packet one-way delay: 43.103 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.84 Mbit/s
95th percentile per-packet one-way delay: 47.952 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.59 Mbit/s
95th percentile per-packet one-way delay: 46.147 ms
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-05 11:48:20

End at: 2018-06-05 11:48:50

Local clock offset: 0.322 ms

Remote clock offset: 0.318 ms

Below is generated by plot.py at 2018-06-05 15:10:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 41.493 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.37 Mbit/s

95th percentile per-packet one-way delay: 40.008 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.10 Mbit/s

95th percentile per-packet one-way delay: 43.712 ms

Loss rate: 0.01%

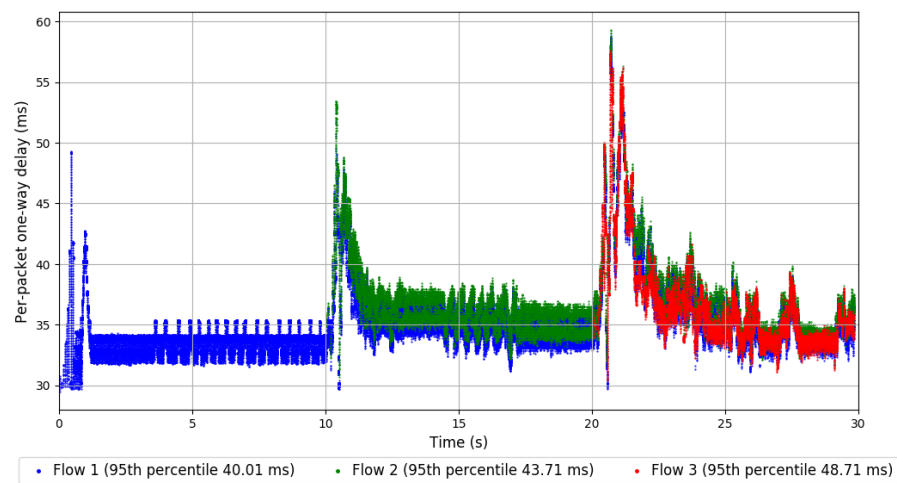
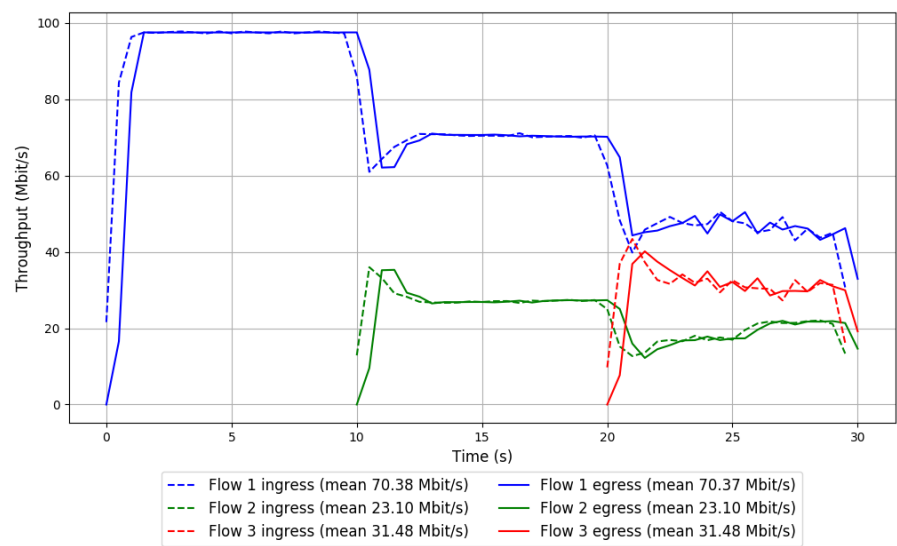
-- Flow 3:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 48.706 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-05 12:09:49

End at: 2018-06-05 12:10:19

Local clock offset: 0.18 ms

Remote clock offset: 0.358 ms

Below is generated by plot.py at 2018-06-05 15:10:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 40.605 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.28 Mbit/s

95th percentile per-packet one-way delay: 38.963 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.85 Mbit/s

95th percentile per-packet one-way delay: 41.933 ms

Loss rate: 0.02%

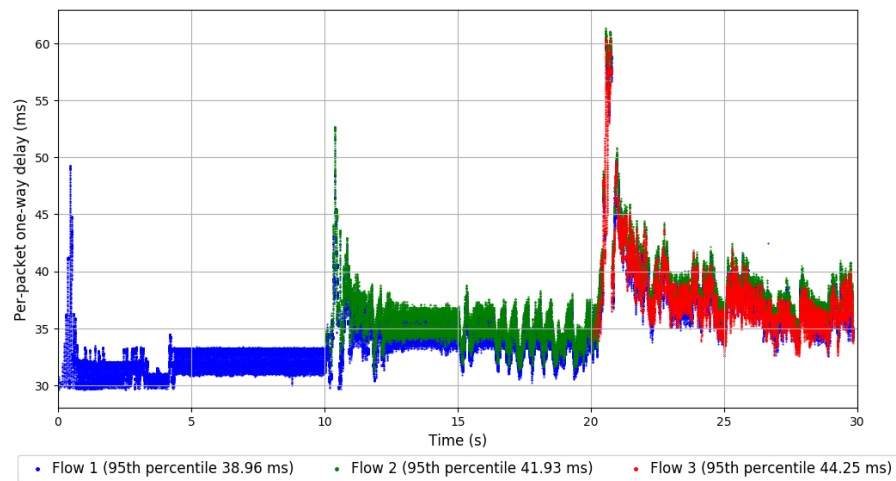
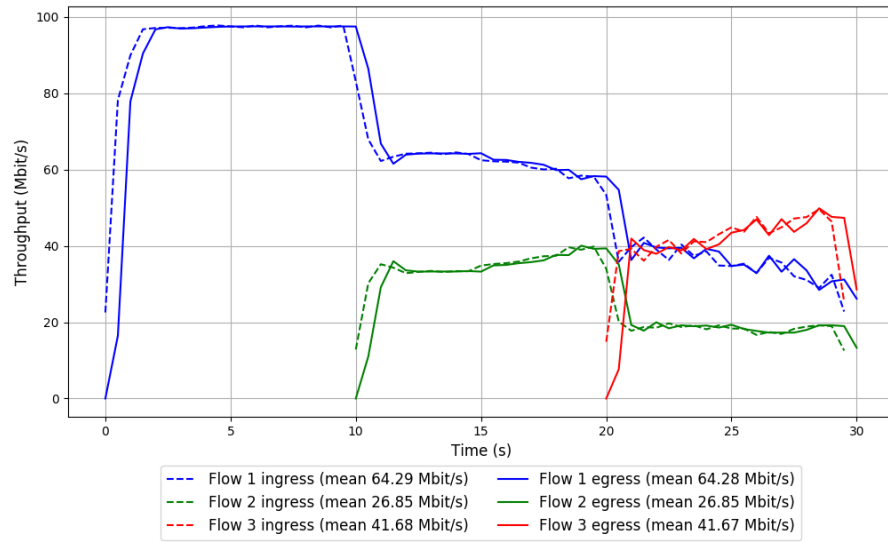
-- Flow 3:

Average throughput: 41.67 Mbit/s

95th percentile per-packet one-way delay: 44.249 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-05 12:31:22

End at: 2018-06-05 12:31:52

Local clock offset: -0.107 ms

Remote clock offset: 0.443 ms

Below is generated by plot.py at 2018-06-05 15:10:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 43.243 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.16 Mbit/s

95th percentile per-packet one-way delay: 39.823 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.64 Mbit/s

95th percentile per-packet one-way delay: 45.067 ms

Loss rate: 0.00%

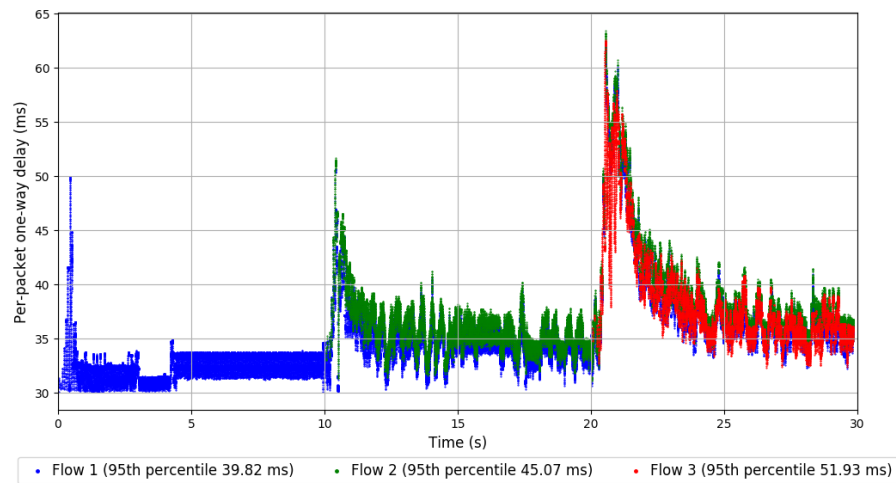
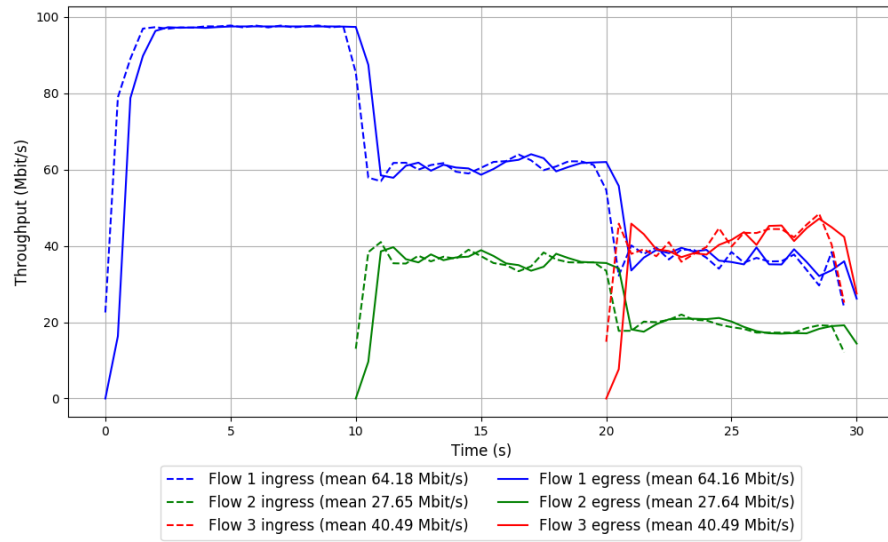
-- Flow 3:

Average throughput: 40.49 Mbit/s

95th percentile per-packet one-way delay: 51.934 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

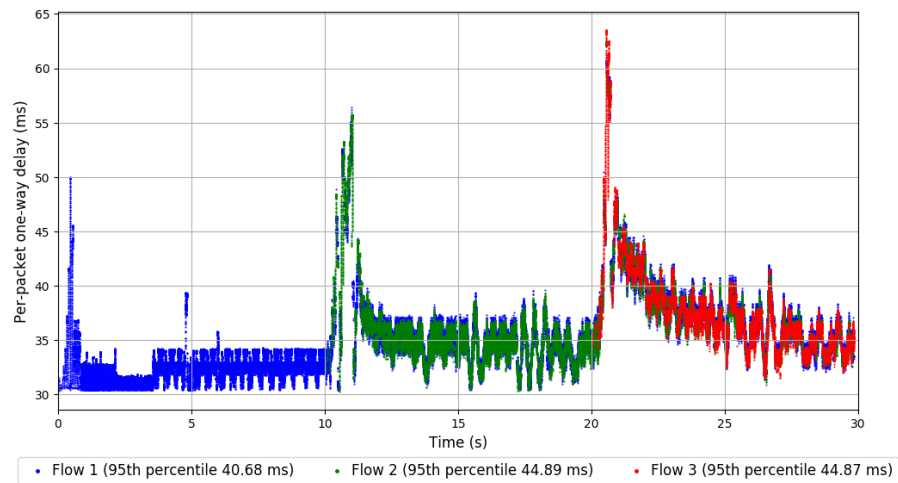
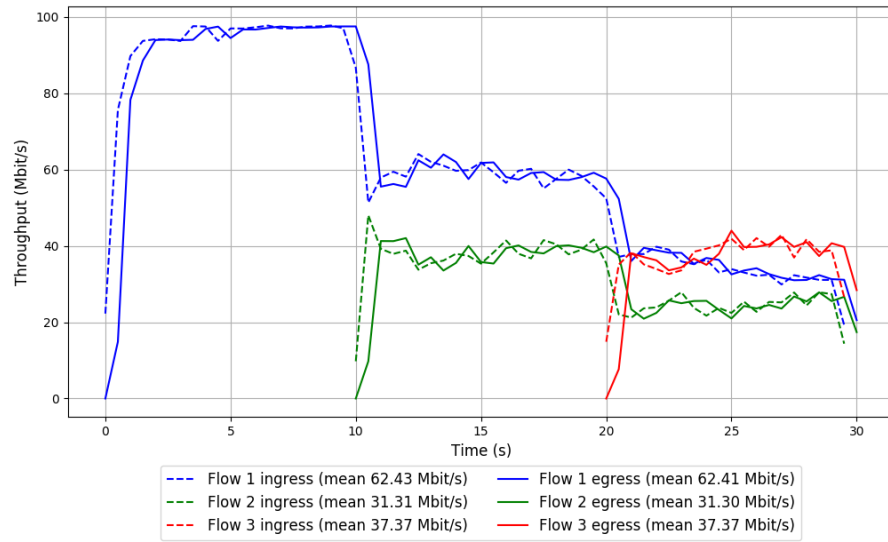


Run 5: Statistics of Indigo

Start at: 2018-06-05 12:52:54
End at: 2018-06-05 12:53:24
Local clock offset: 0.171 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-06-05 15:10:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.39 Mbit/s
95th percentile per-packet one-way delay: 42.476 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 62.41 Mbit/s
95th percentile per-packet one-way delay: 40.683 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 31.30 Mbit/s
95th percentile per-packet one-way delay: 44.887 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.37 Mbit/s
95th percentile per-packet one-way delay: 44.867 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

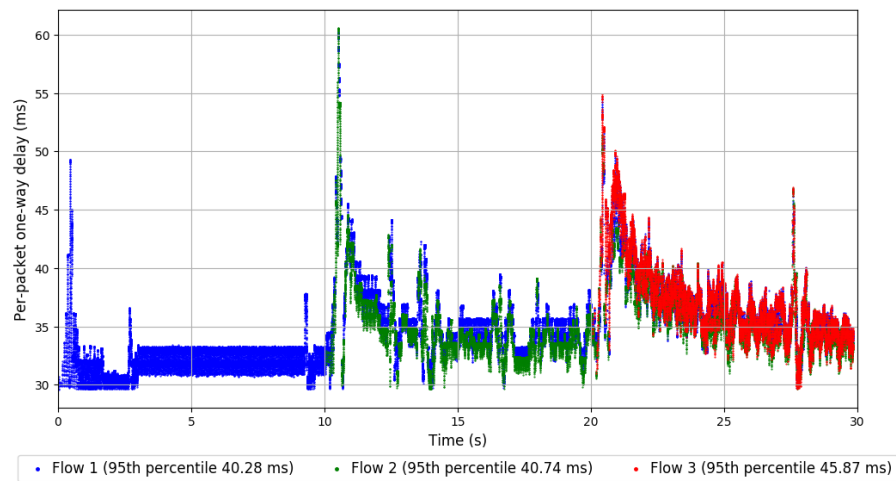
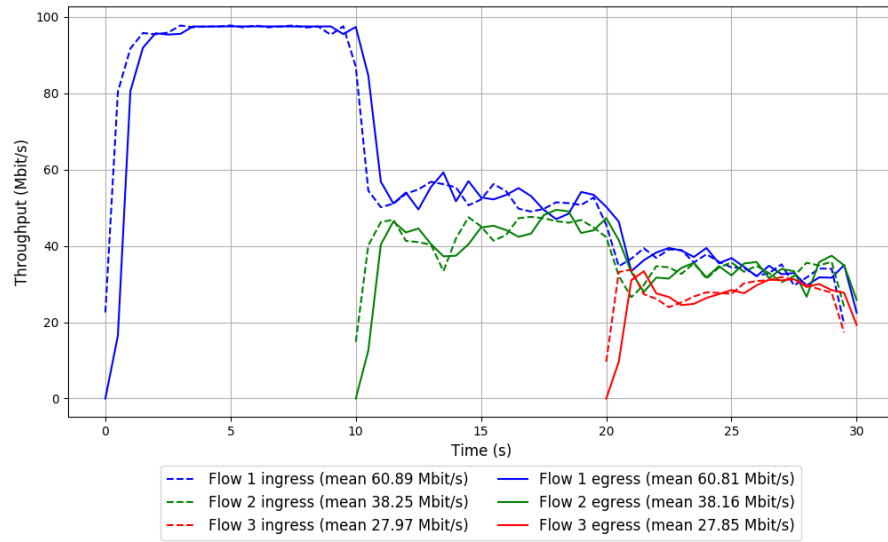


Run 6: Statistics of Indigo

Start at: 2018-06-05 13:14:25
End at: 2018-06-05 13:14:55
Local clock offset: 0.122 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-05 15:10:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 40.964 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 60.81 Mbit/s
95th percentile per-packet one-way delay: 40.276 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 40.743 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 27.85 Mbit/s
95th percentile per-packet one-way delay: 45.869 ms
Loss rate: 0.45%

Run 6: Report of Indigo — Data Link

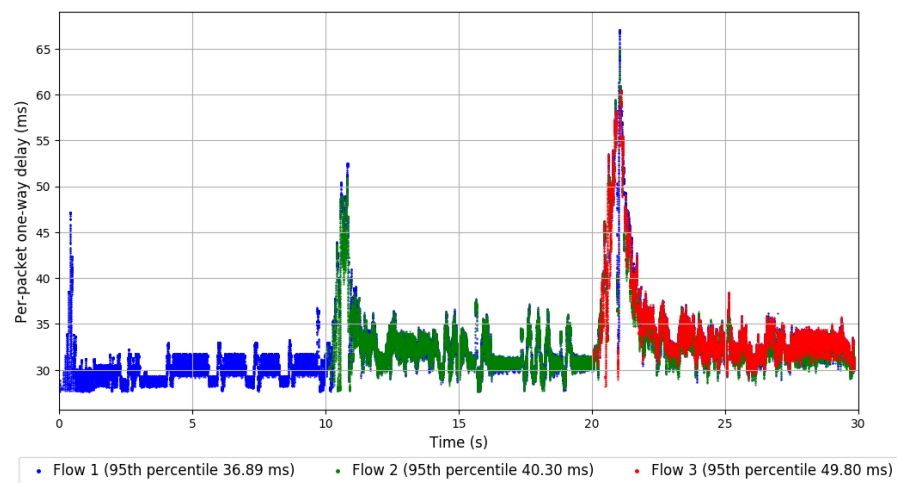
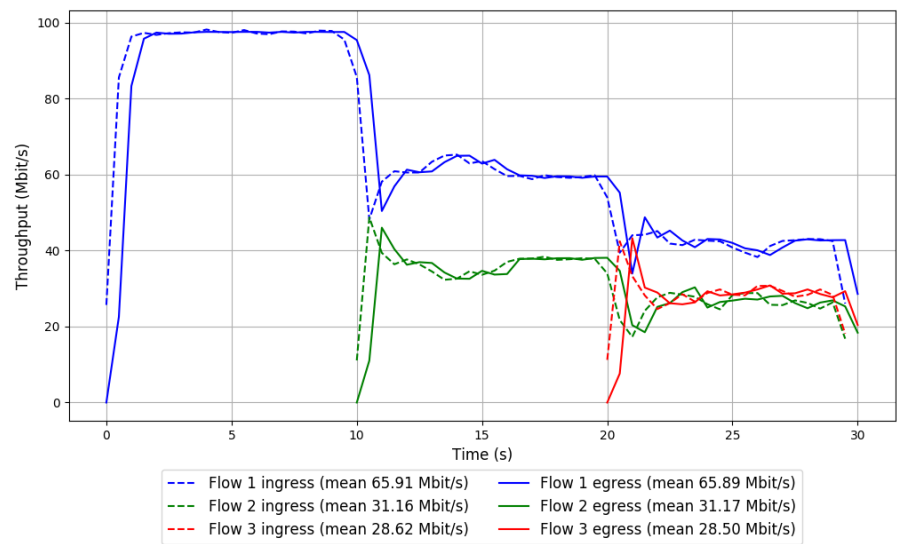


Run 7: Statistics of Indigo

Start at: 2018-06-05 13:35:55
End at: 2018-06-05 13:36:25
Local clock offset: 0.043 ms
Remote clock offset: -2.159 ms

Below is generated by plot.py at 2018-06-05 15:11:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 39.349 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 65.89 Mbit/s
95th percentile per-packet one-way delay: 36.890 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 40.296 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.50 Mbit/s
95th percentile per-packet one-way delay: 49.800 ms
Loss rate: 0.41%

Run 7: Report of Indigo — Data Link

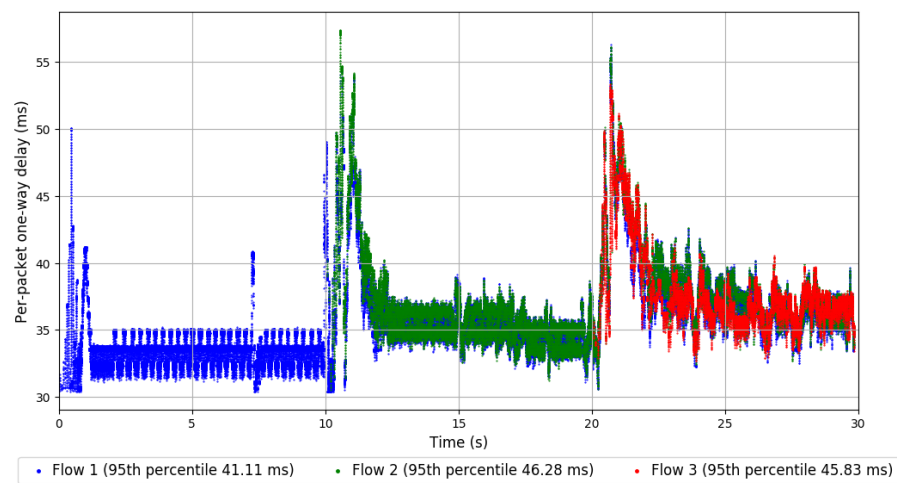
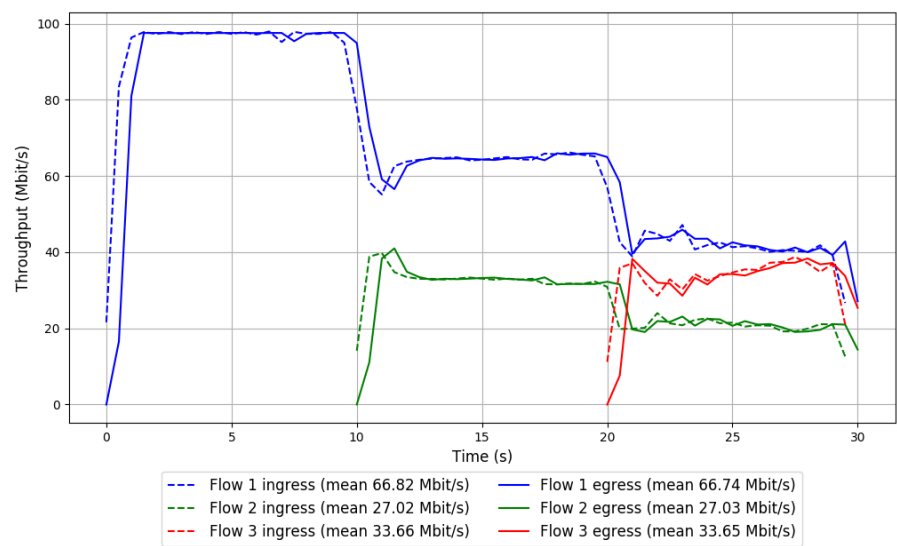


Run 8: Statistics of Indigo

Start at: 2018-06-05 13:57:21
End at: 2018-06-05 13:57:51
Local clock offset: 0.009 ms
Remote clock offset: -0.239 ms

Below is generated by plot.py at 2018-06-05 15:11:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 43.403 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 66.74 Mbit/s
95th percentile per-packet one-way delay: 41.111 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 27.03 Mbit/s
95th percentile per-packet one-way delay: 46.282 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.65 Mbit/s
95th percentile per-packet one-way delay: 45.832 ms
Loss rate: 0.01%

Run 8: Report of Indigo — Data Link

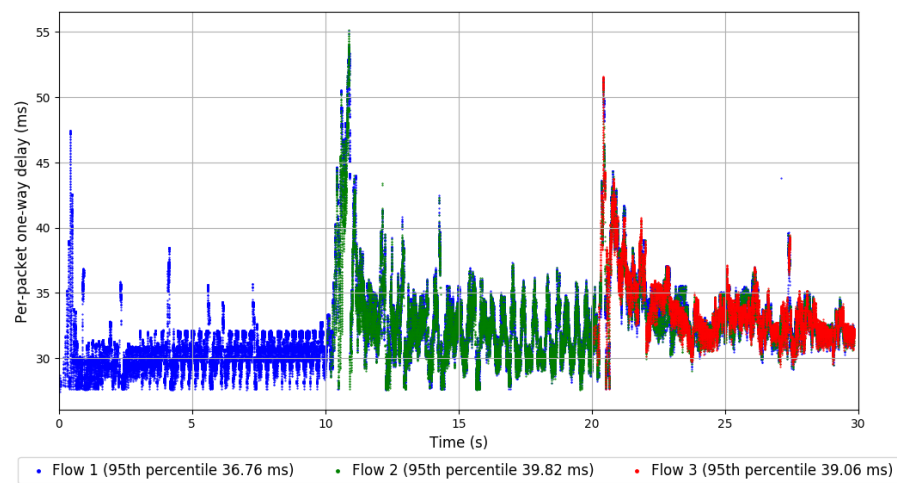
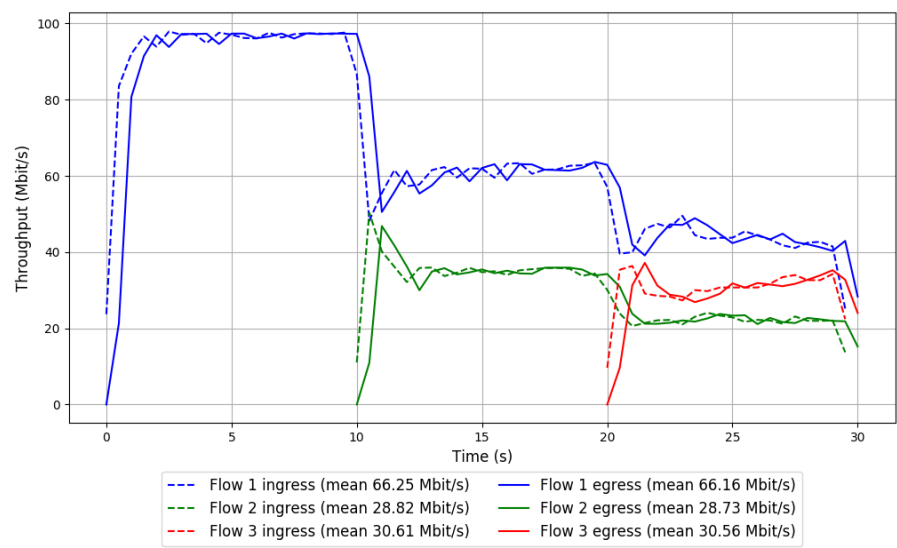


Run 9: Statistics of Indigo

Start at: 2018-06-05 14:19:07
End at: 2018-06-05 14:19:37
Local clock offset: -0.083 ms
Remote clock offset: -2.517 ms

Below is generated by plot.py at 2018-06-05 15:11:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: 37.898 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 66.16 Mbit/s
95th percentile per-packet one-way delay: 36.764 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 28.73 Mbit/s
95th percentile per-packet one-way delay: 39.820 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 39.064 ms
Loss rate: 0.16%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-05 14:40:35

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

Local clock offset: -0.093 ms

Remote clock offset: -1.59 ms

Below is generated by plot.py at 2018-06-05 15:11:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 34.984 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 69.45 Mbit/s

95th percentile per-packet one-way delay: 34.456 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 28.18 Mbit/s

95th percentile per-packet one-way delay: 35.108 ms

Loss rate: 0.03%

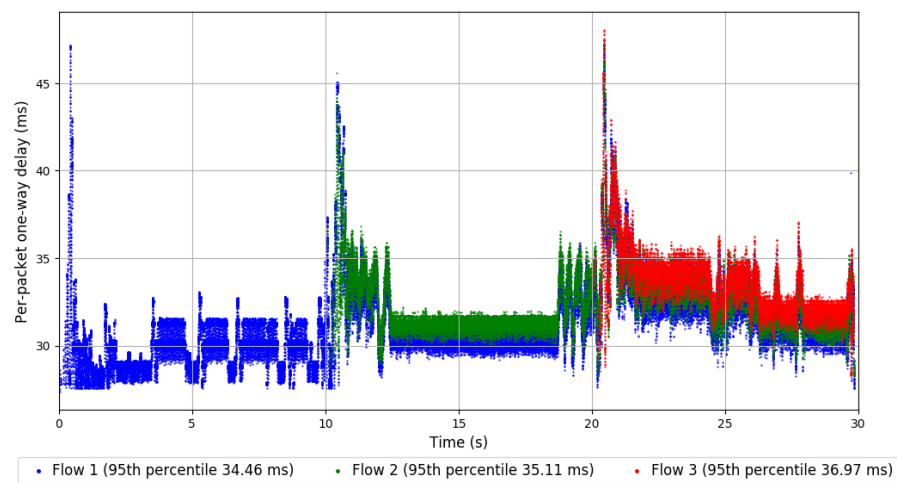
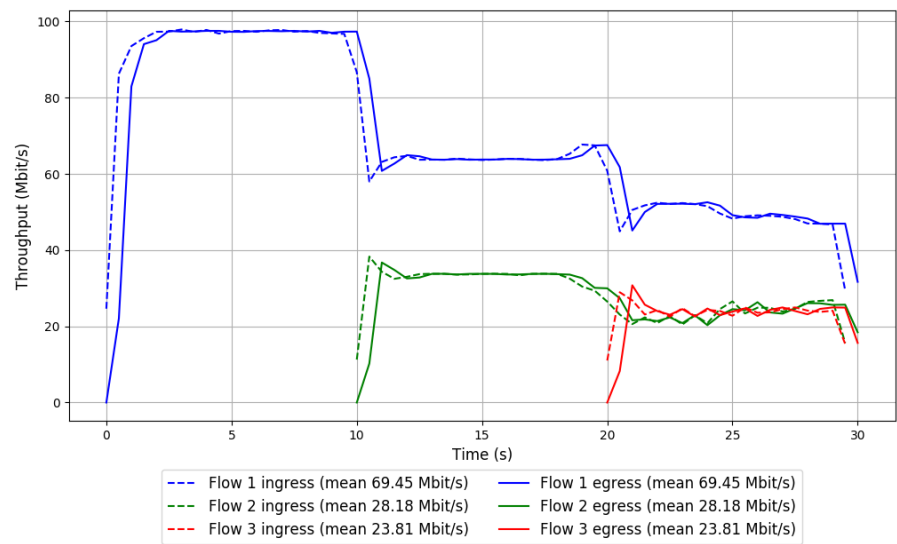
-- Flow 3:

Average throughput: 23.81 Mbit/s

95th percentile per-packet one-way delay: 36.969 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

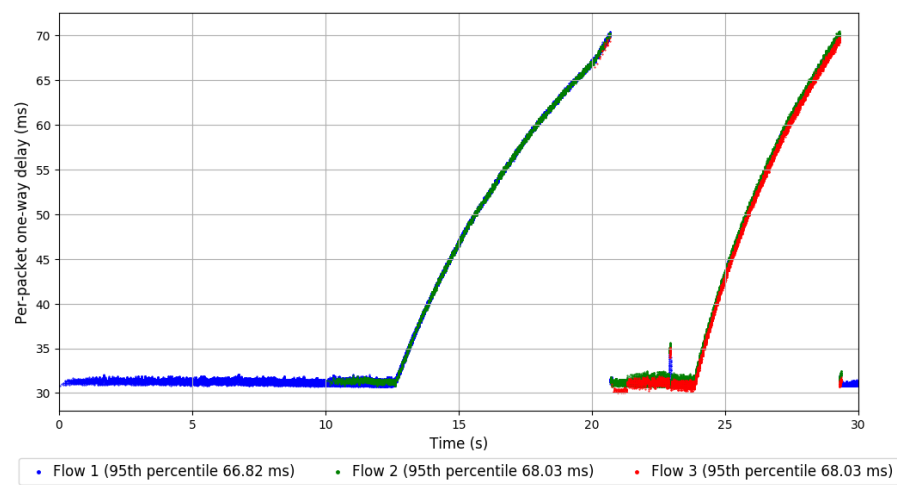
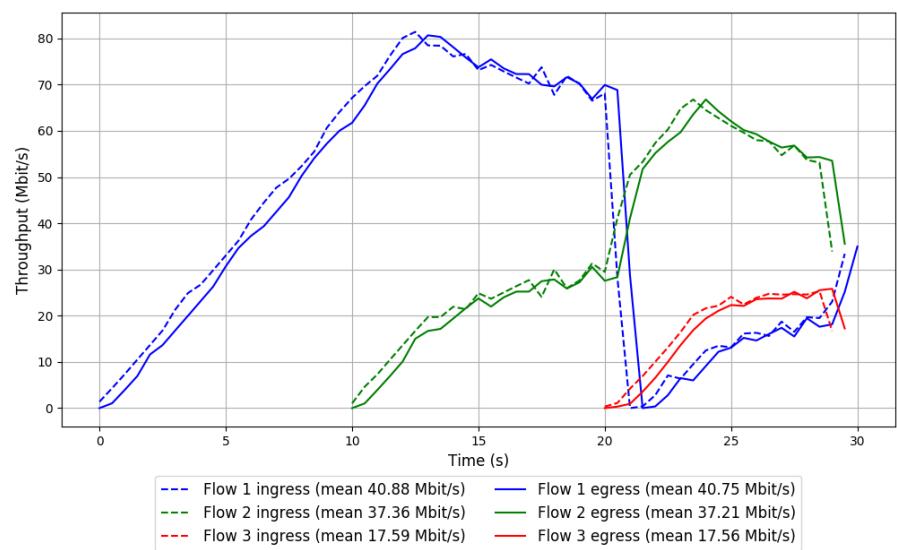


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-05 11:40:19
End at: 2018-06-05 11:40:49
Local clock offset: 0.249 ms
Remote clock offset: 0.509 ms

# Below is generated by plot.py at 2018-06-05 15:11:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.15 Mbit/s
95th percentile per-packet one-way delay: 67.500 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 40.75 Mbit/s
95th percentile per-packet one-way delay: 66.821 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 68.027 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 17.56 Mbit/s
95th percentile per-packet one-way delay: 68.029 ms
Loss rate: 0.55%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-05 12:01:47

End at: 2018-06-05 12:02:17

Local clock offset: 0.394 ms

Remote clock offset: 1.021 ms

Below is generated by plot.py at 2018-06-05 15:11:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.48 Mbit/s

95th percentile per-packet one-way delay: 65.465 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 37.23 Mbit/s

95th percentile per-packet one-way delay: 61.856 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 26.87 Mbit/s

95th percentile per-packet one-way delay: 67.430 ms

Loss rate: 0.42%

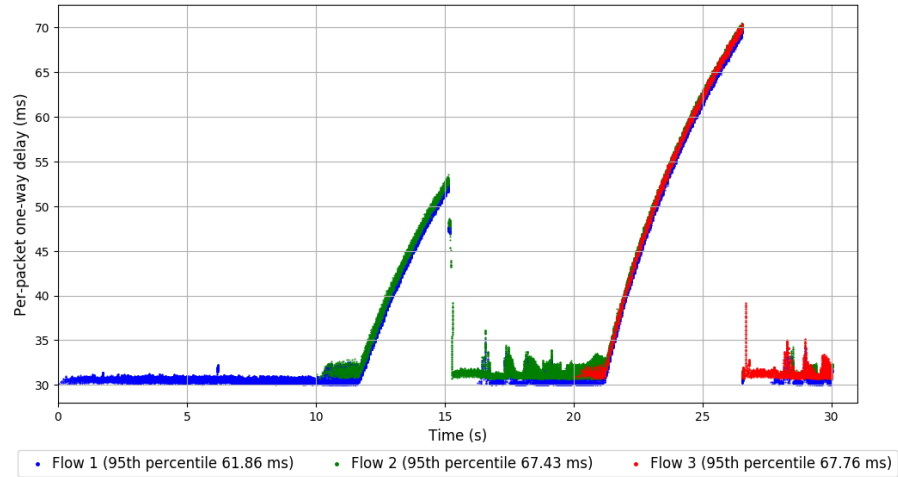
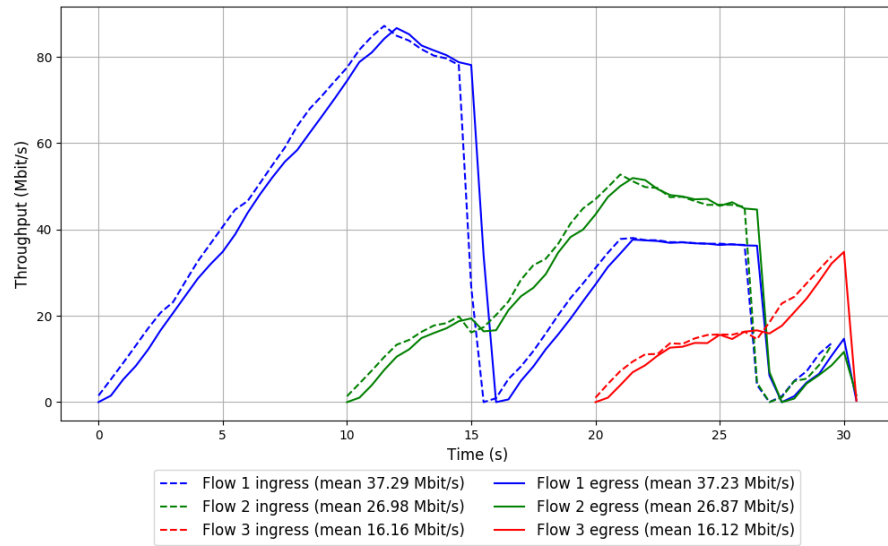
-- Flow 3:

Average throughput: 16.12 Mbit/s

95th percentile per-packet one-way delay: 67.764 ms

Loss rate: 0.19%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-05 12:23:18

End at: 2018-06-05 12:23:48

Local clock offset: -0.043 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-06-05 15:11:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.72 Mbit/s

95th percentile per-packet one-way delay: 63.634 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 42.09 Mbit/s

95th percentile per-packet one-way delay: 64.123 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 29.36 Mbit/s

95th percentile per-packet one-way delay: 63.436 ms

Loss rate: 0.07%

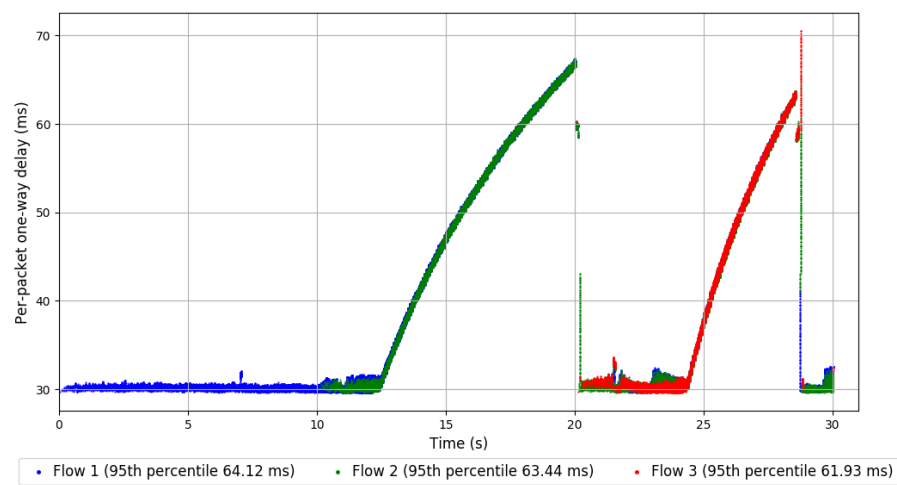
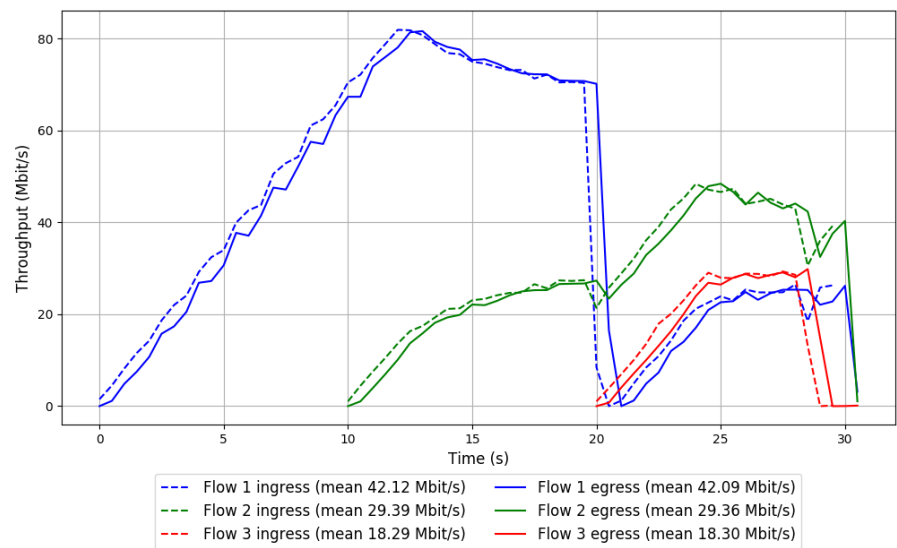
-- Flow 3:

Average throughput: 18.30 Mbit/s

95th percentile per-packet one-way delay: 61.932 ms

Loss rate: 0.28%

Run 3: Report of LEDBAT — Data Link

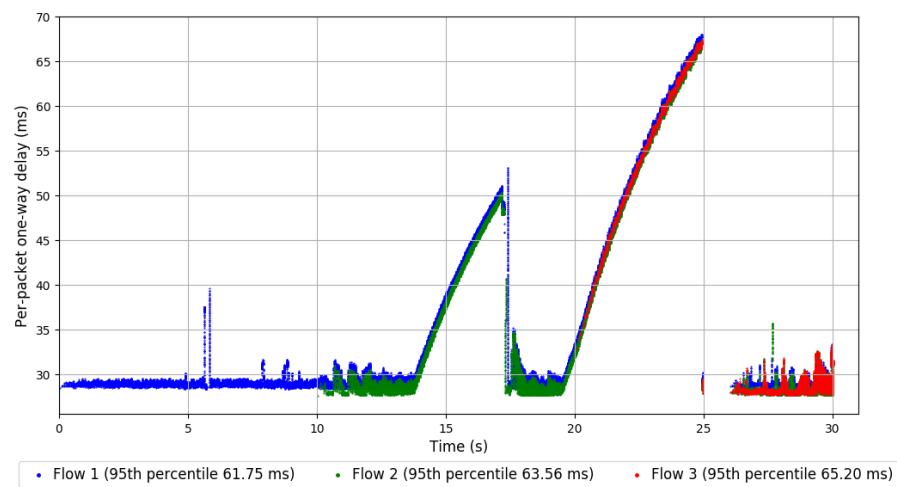
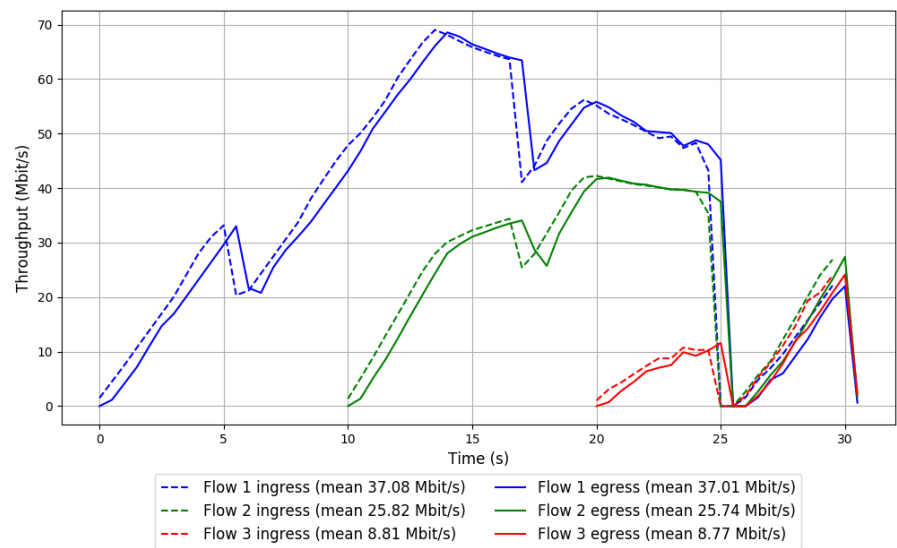


Run 4: Statistics of LEDBAT

Start at: 2018-06-05 12:44:52
End at: 2018-06-05 12:45:22
Local clock offset: 0.088 ms
Remote clock offset: -2.059 ms

Below is generated by plot.py at 2018-06-05 15:11:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.06 Mbit/s
95th percentile per-packet one-way delay: 62.807 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 37.01 Mbit/s
95th percentile per-packet one-way delay: 61.749 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 25.74 Mbit/s
95th percentile per-packet one-way delay: 63.561 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 8.77 Mbit/s
95th percentile per-packet one-way delay: 65.200 ms
Loss rate: 0.44%

Run 4: Report of LEDBAT — Data Link

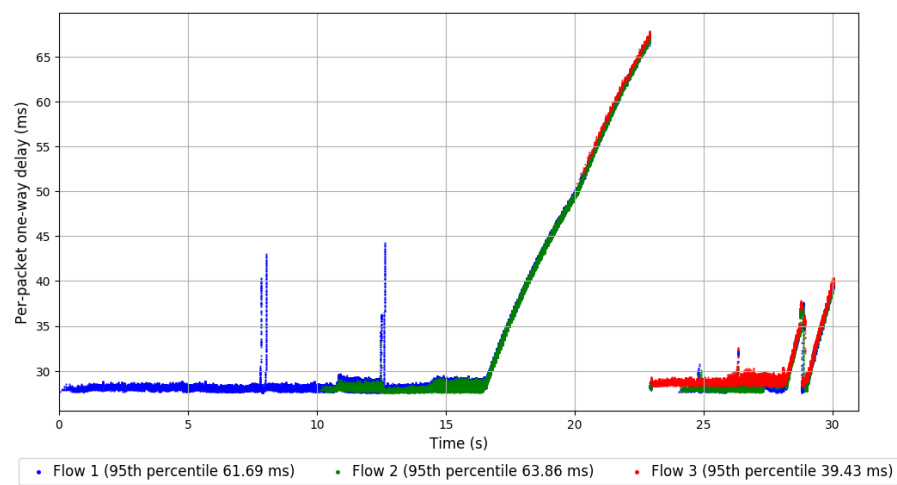
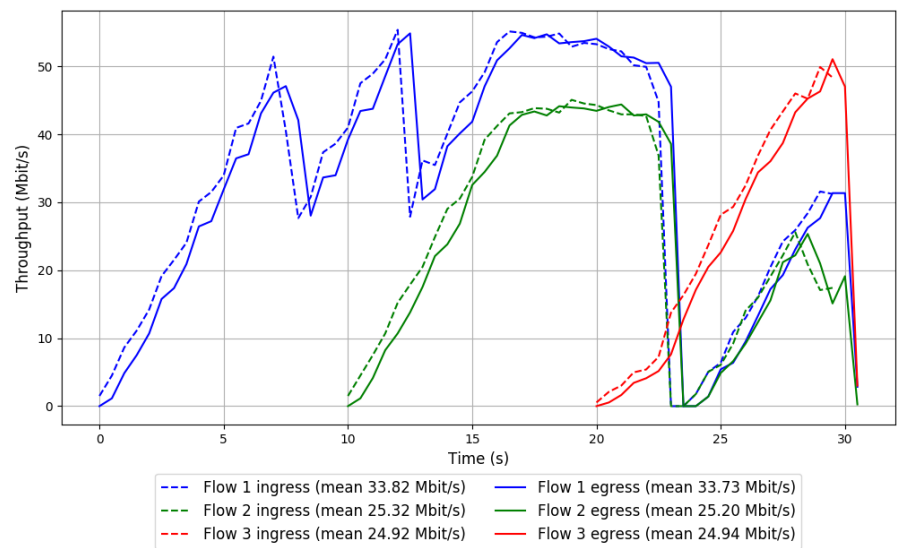


Run 5: Statistics of LEDBAT

Start at: 2018-06-05 13:06:22
End at: 2018-06-05 13:06:52
Local clock offset: 0.243 ms
Remote clock offset: -2.029 ms

Below is generated by plot.py at 2018-06-05 15:12:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.77 Mbit/s
95th percentile per-packet one-way delay: 62.376 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 33.73 Mbit/s
95th percentile per-packet one-way delay: 61.685 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 25.20 Mbit/s
95th percentile per-packet one-way delay: 63.861 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 39.430 ms
Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-05 13:27:55

End at: 2018-06-05 13:28:25

Local clock offset: -0.053 ms

Remote clock offset: 0.264 ms

Below is generated by plot.py at 2018-06-05 15:12:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.83 Mbit/s

95th percentile per-packet one-way delay: 62.482 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 48.84 Mbit/s

95th percentile per-packet one-way delay: 61.297 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 29.81 Mbit/s

95th percentile per-packet one-way delay: 63.682 ms

Loss rate: 0.11%

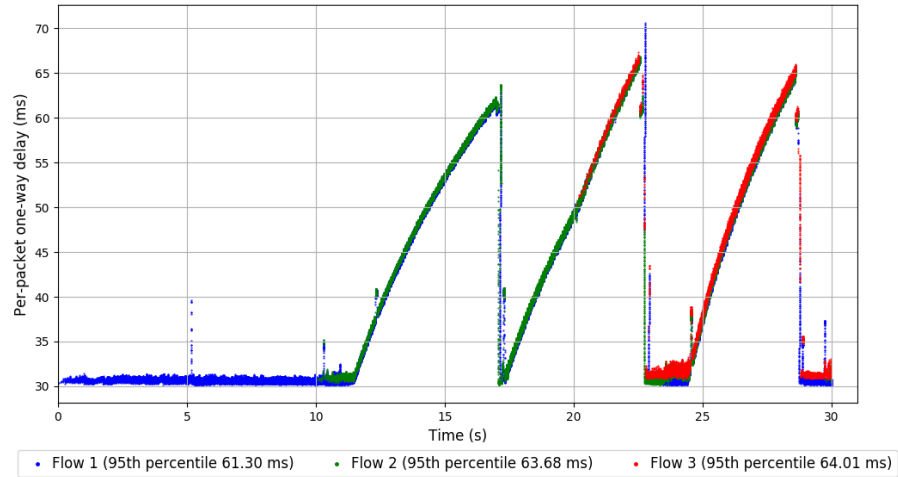
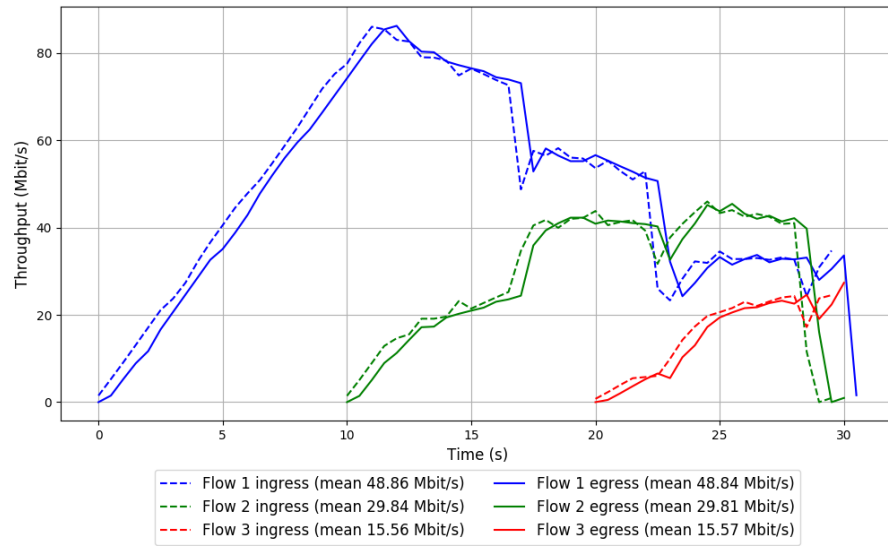
-- Flow 3:

Average throughput: 15.57 Mbit/s

95th percentile per-packet one-way delay: 64.010 ms

Loss rate: 0.12%

Run 6: Report of LEDBAT — Data Link

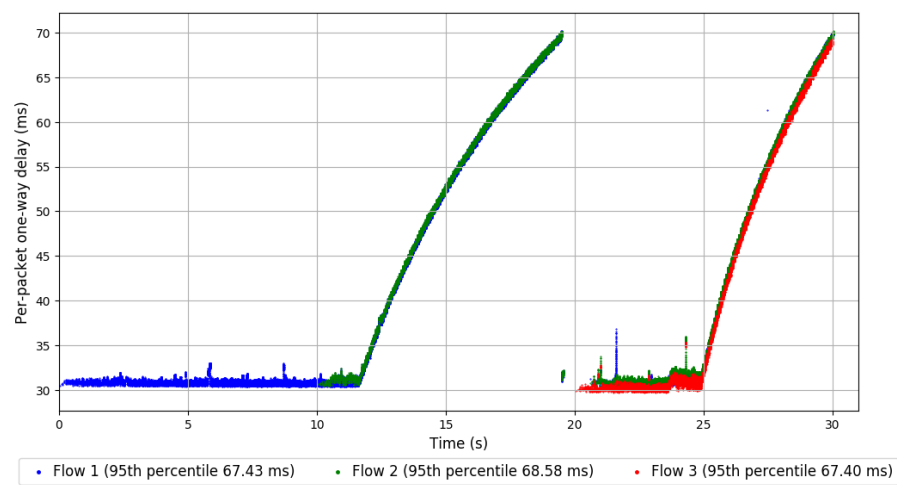
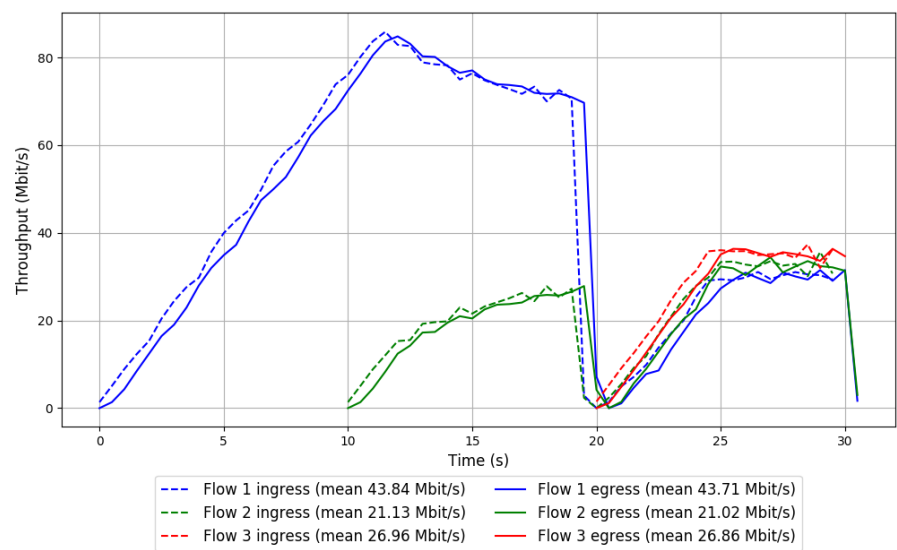


Run 7: Statistics of LEDBAT

Start at: 2018-06-05 13:49:20
End at: 2018-06-05 13:49:50
Local clock offset: -0.068 ms
Remote clock offset: -0.161 ms

Below is generated by plot.py at 2018-06-05 15:12:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.62 Mbit/s
95th percentile per-packet one-way delay: 67.705 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 43.71 Mbit/s
95th percentile per-packet one-way delay: 67.429 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 21.02 Mbit/s
95th percentile per-packet one-way delay: 68.582 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 26.86 Mbit/s
95th percentile per-packet one-way delay: 67.396 ms
Loss rate: 0.65%

Run 7: Report of LEDBAT — Data Link

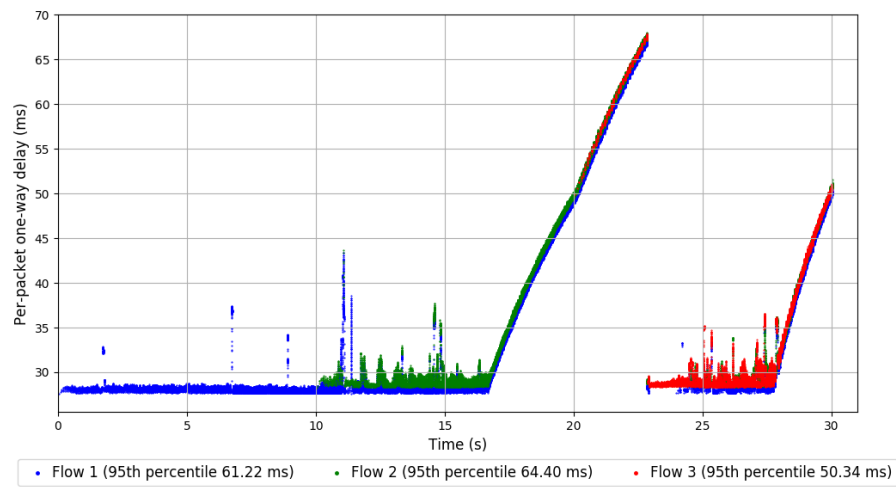
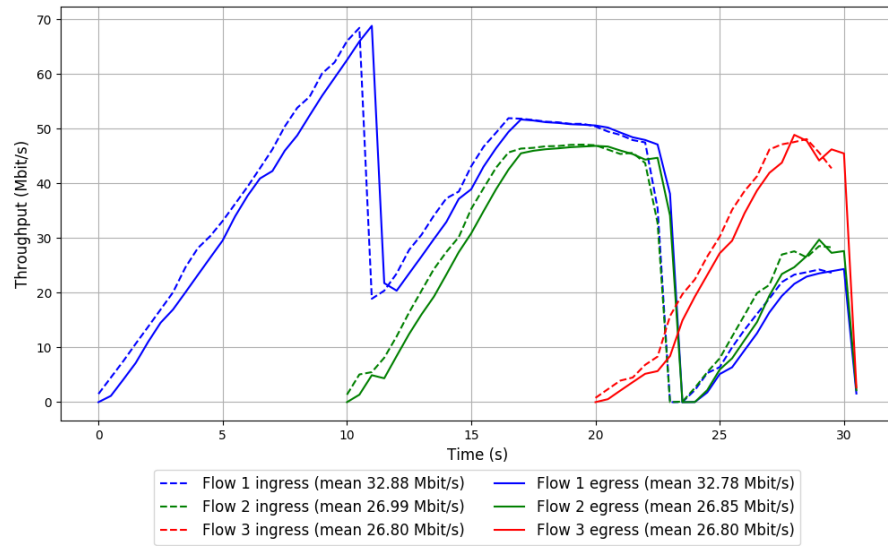


Run 8: Statistics of LEDBAT

Start at: 2018-06-05 14:10:51
End at: 2018-06-05 14:11:21
Local clock offset: -0.127 ms
Remote clock offset: -2.471 ms

Below is generated by plot.py at 2018-06-05 15:12:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.58 Mbit/s
95th percentile per-packet one-way delay: 62.253 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 32.78 Mbit/s
95th percentile per-packet one-way delay: 61.218 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 26.85 Mbit/s
95th percentile per-packet one-way delay: 64.396 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 26.80 Mbit/s
95th percentile per-packet one-way delay: 50.338 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

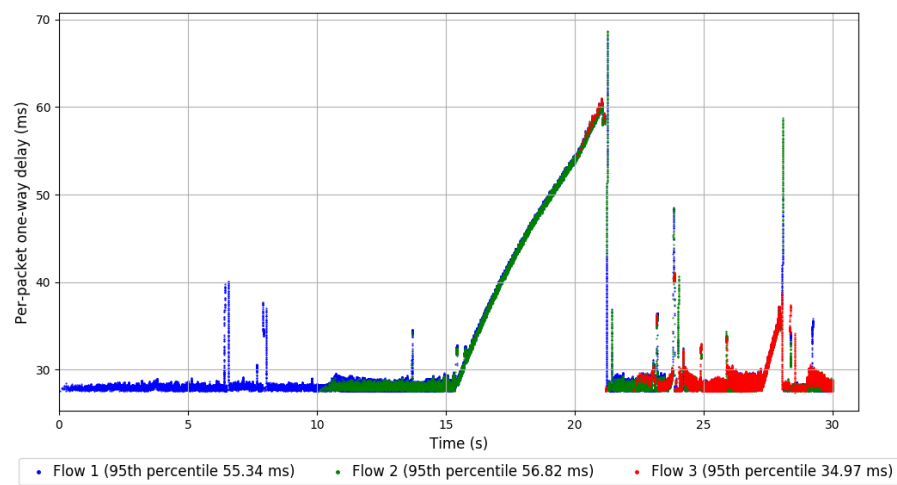
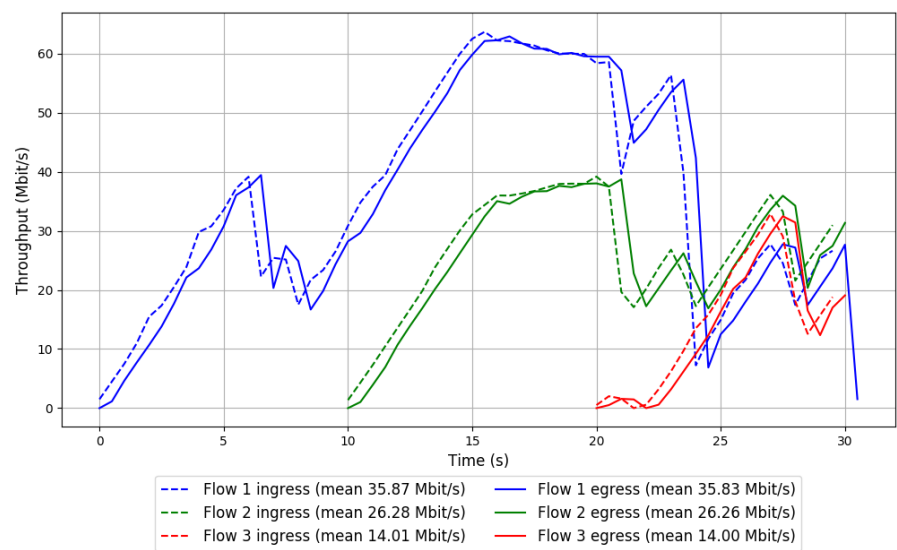


Run 9: Statistics of LEDBAT

Start at: 2018-06-05 14:32:32
End at: 2018-06-05 14:33:02
Local clock offset: -0.132 ms
Remote clock offset: -1.815 ms

Below is generated by plot.py at 2018-06-05 15:12:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.96 Mbit/s
95th percentile per-packet one-way delay: 55.593 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 35.83 Mbit/s
95th percentile per-packet one-way delay: 55.336 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 26.26 Mbit/s
95th percentile per-packet one-way delay: 56.820 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 14.00 Mbit/s
95th percentile per-packet one-way delay: 34.972 ms
Loss rate: 0.30%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-05 14:54:04

End at: 2018-06-05 14:54:34

Local clock offset: -0.067 ms

Remote clock offset: 0.734 ms

Below is generated by plot.py at 2018-06-05 15:12:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.25 Mbit/s

95th percentile per-packet one-way delay: 58.397 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 52.933 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 31.13 Mbit/s

95th percentile per-packet one-way delay: 59.142 ms

Loss rate: 0.14%

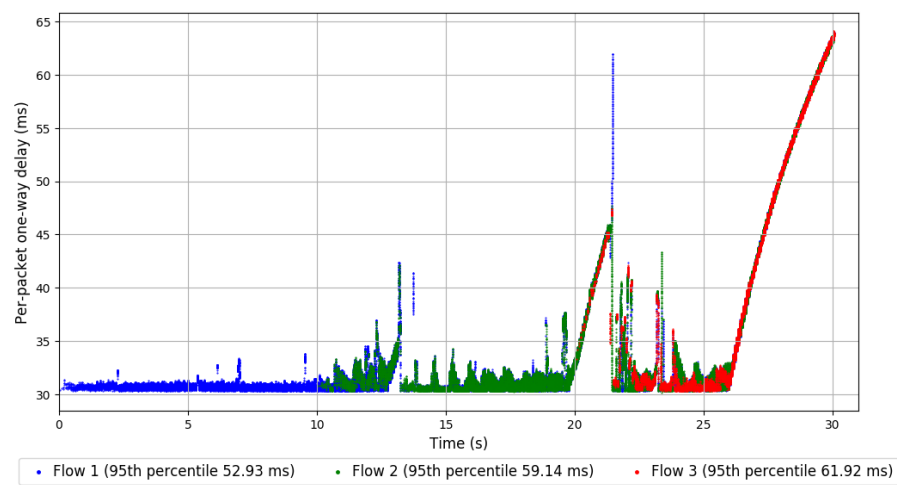
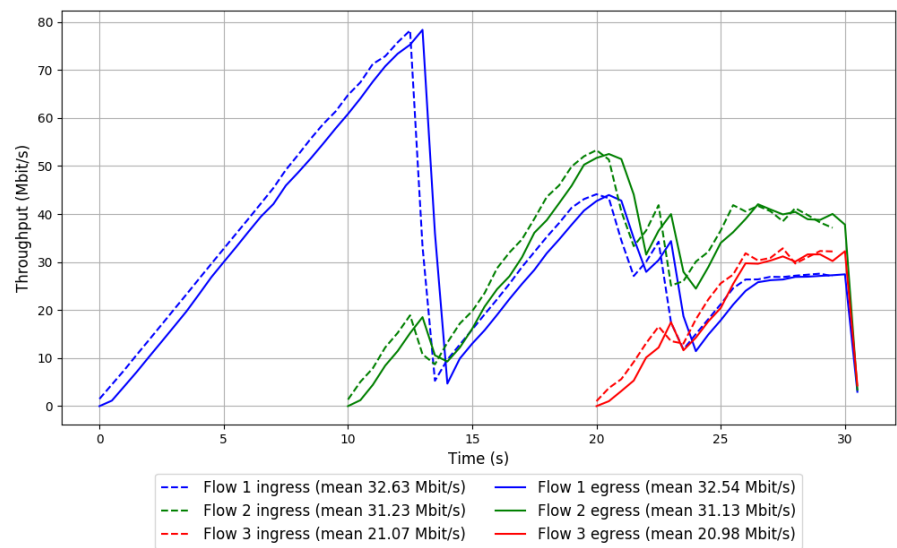
-- Flow 3:

Average throughput: 20.98 Mbit/s

95th percentile per-packet one-way delay: 61.916 ms

Loss rate: 0.14%

Run 10: Report of LEDBAT — Data Link

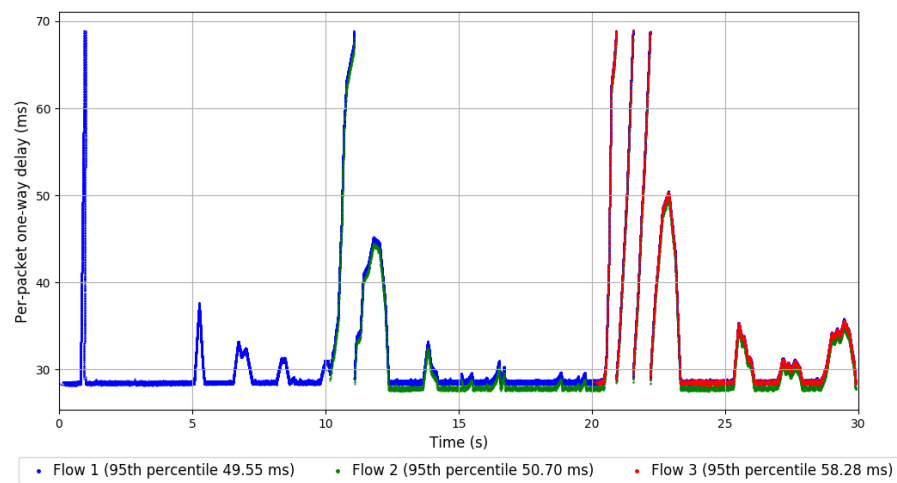
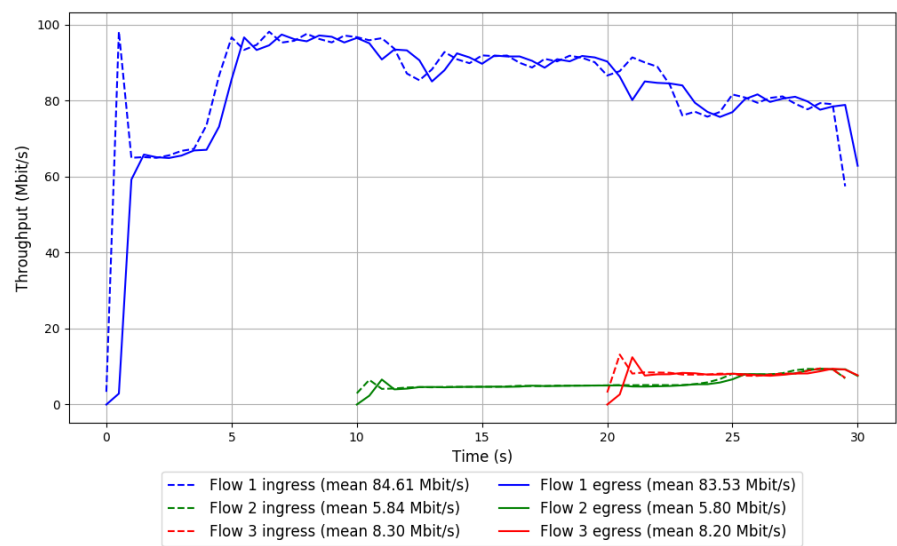


Run 1: Statistics of PCC-Allegro

Start at: 2018-06-05 11:44:18
End at: 2018-06-05 11:44:48
Local clock offset: 0.29 ms
Remote clock offset: -1.862 ms

Below is generated by plot.py at 2018-06-05 15:12:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.10 Mbit/s
95th percentile per-packet one-way delay: 49.774 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 83.53 Mbit/s
95th percentile per-packet one-way delay: 49.555 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 5.80 Mbit/s
95th percentile per-packet one-way delay: 50.697 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 58.282 ms
Loss rate: 1.19%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-05 12:05:46

End at: 2018-06-05 12:06:16

Local clock offset: 0.327 ms

Remote clock offset: 1.174 ms

Below is generated by plot.py at 2018-06-05 15:13:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.08 Mbit/s

95th percentile per-packet one-way delay: 64.840 ms

Loss rate: 3.72%

-- Flow 1:

Average throughput: 81.29 Mbit/s

95th percentile per-packet one-way delay: 64.349 ms

Loss rate: 3.48%

-- Flow 2:

Average throughput: 11.10 Mbit/s

95th percentile per-packet one-way delay: 67.104 ms

Loss rate: 4.81%

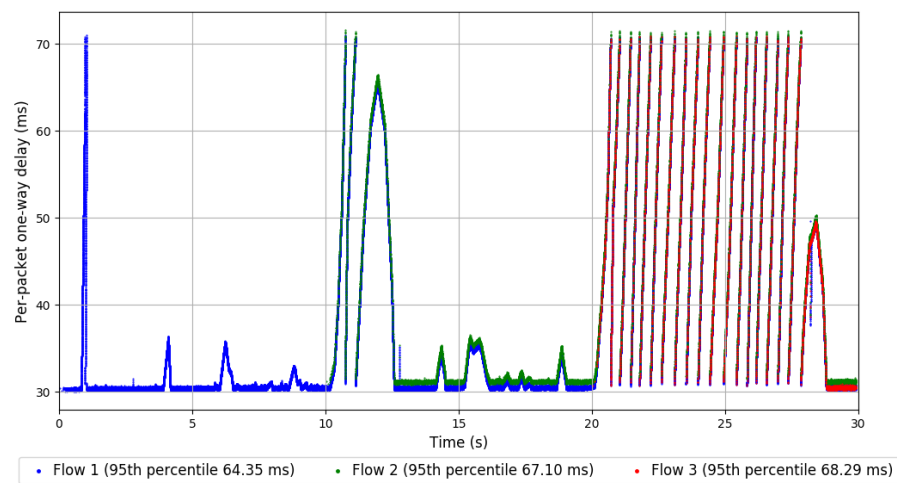
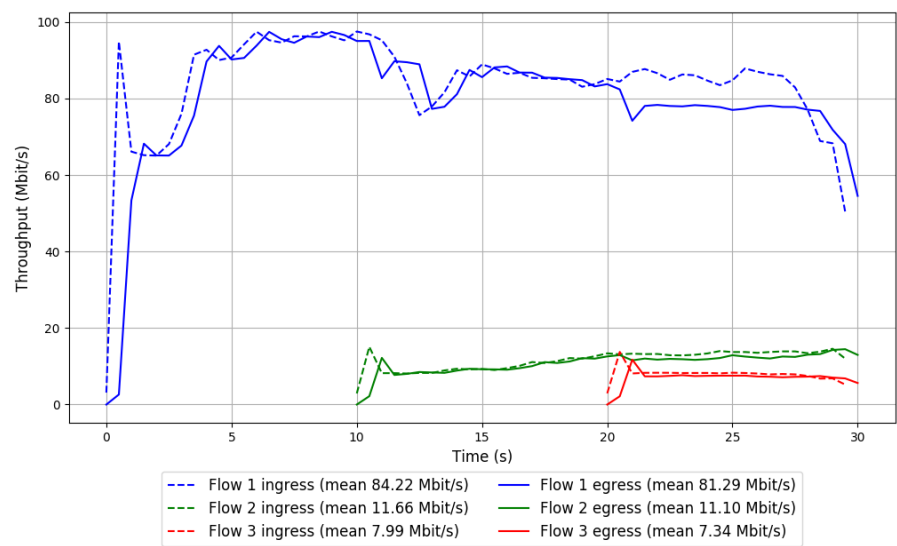
-- Flow 3:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 68.291 ms

Loss rate: 8.10%

Run 2: Report of PCC-Allegro — Data Link

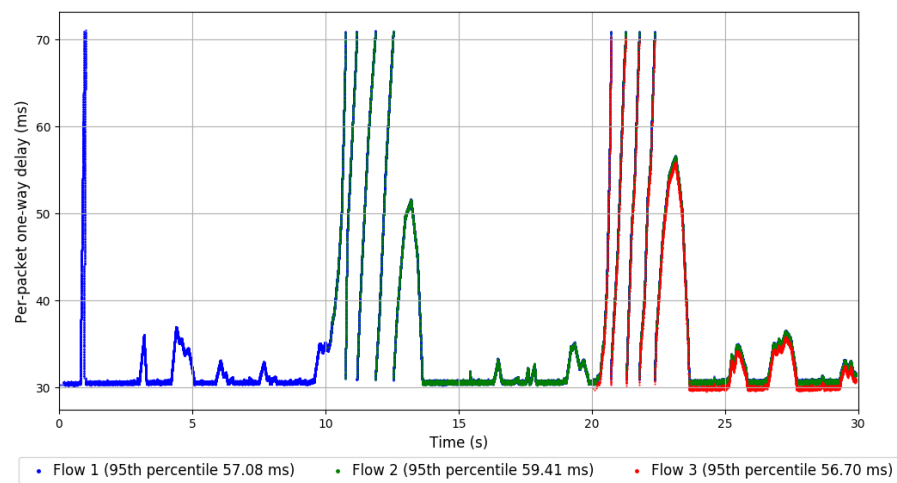
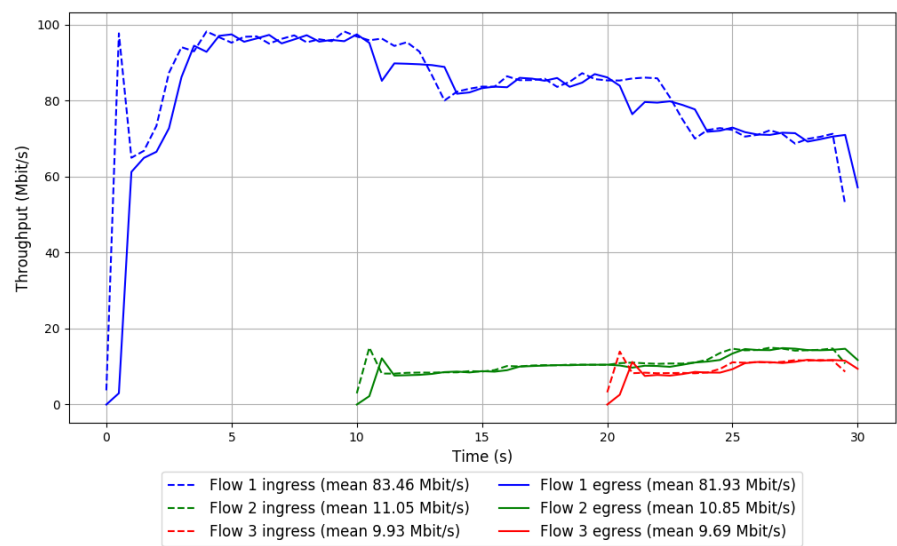


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-05 12:27:19
End at: 2018-06-05 12:27:49
Local clock offset: -0.09 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-05 15:13:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.34 Mbit/s
95th percentile per-packet one-way delay: 57.293 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 81.93 Mbit/s
95th percentile per-packet one-way delay: 57.083 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 10.85 Mbit/s
95th percentile per-packet one-way delay: 59.414 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 56.702 ms
Loss rate: 2.36%

Run 3: Report of PCC-Allegro — Data Link

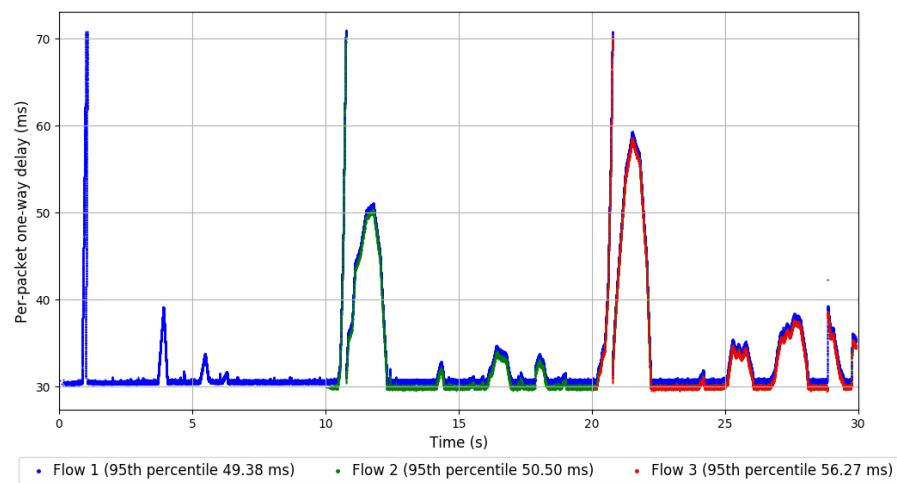
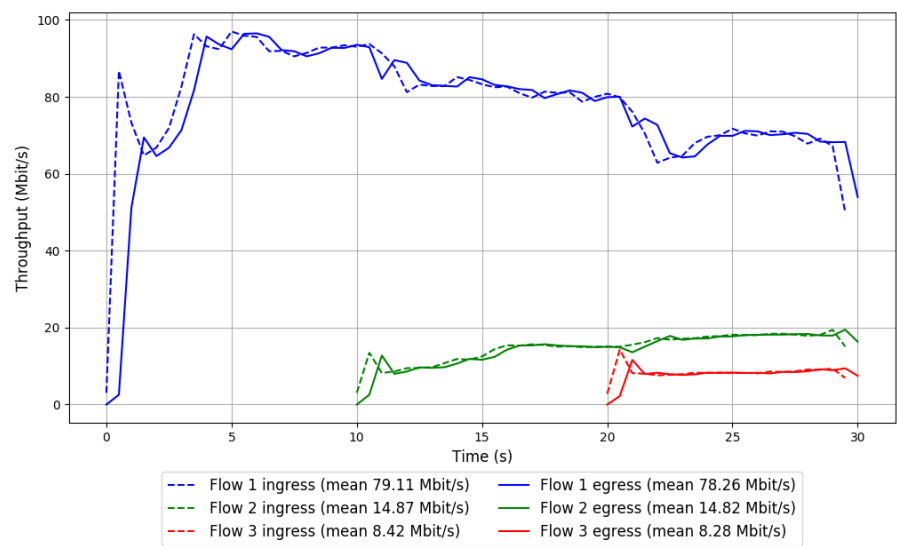


Run 4: Statistics of PCC-Allegro

Start at: 2018-06-05 12:48:51
End at: 2018-06-05 12:49:22
Local clock offset: 0.228 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-05 15:13:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.84 Mbit/s
95th percentile per-packet one-way delay: 49.870 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 78.26 Mbit/s
95th percentile per-packet one-way delay: 49.377 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 14.82 Mbit/s
95th percentile per-packet one-way delay: 50.498 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 56.271 ms
Loss rate: 1.55%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-05 13:10:22

End at: 2018-06-05 13:10:52

Local clock offset: 0.169 ms

Remote clock offset: 0.401 ms

Below is generated by plot.py at 2018-06-05 15:13:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 55.114 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 80.89 Mbit/s

95th percentile per-packet one-way delay: 55.576 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 9.73 Mbit/s

95th percentile per-packet one-way delay: 49.657 ms

Loss rate: 0.23%

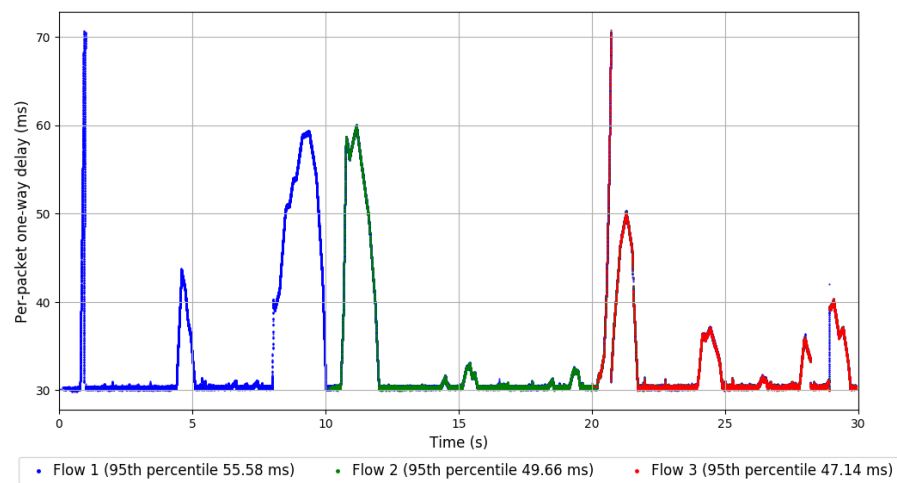
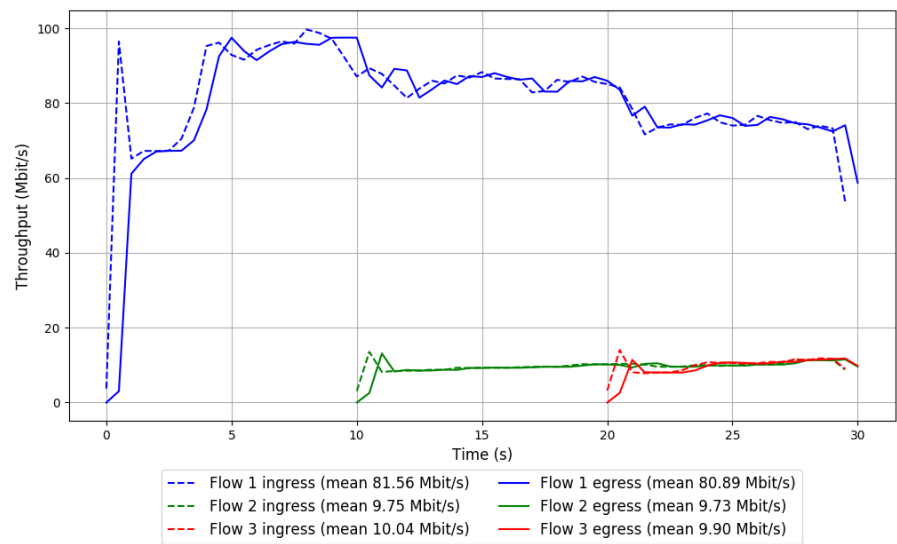
-- Flow 3:

Average throughput: 9.90 Mbit/s

95th percentile per-packet one-way delay: 47.143 ms

Loss rate: 1.35%

Run 5: Report of PCC-Allegro — Data Link

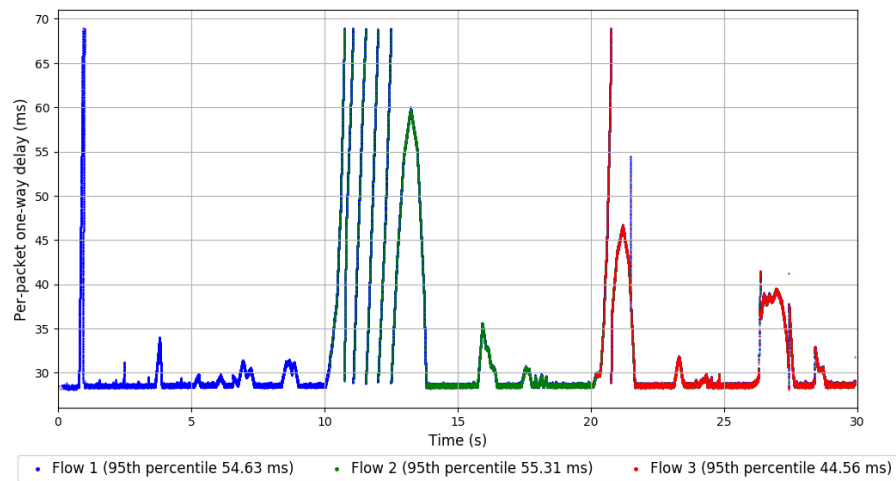
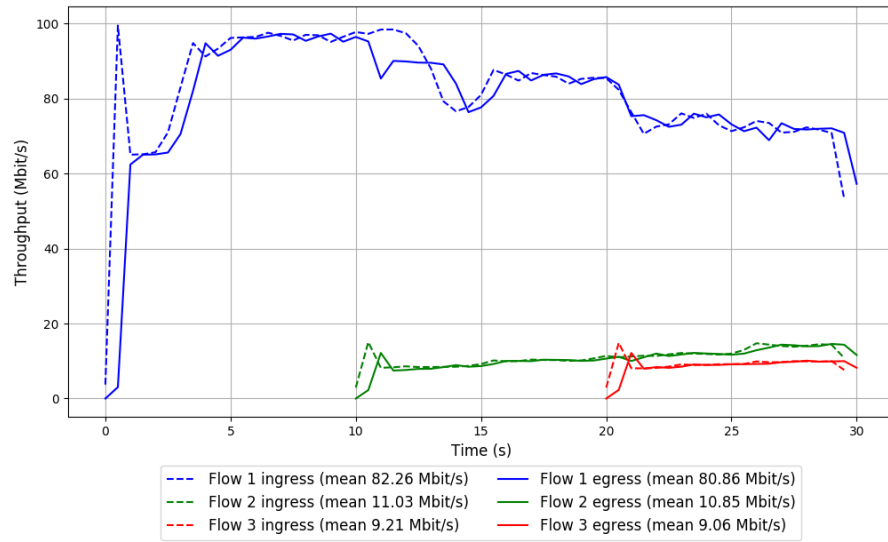


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-05 13:31:54
End at: 2018-06-05 13:32:24
Local clock offset: 0.035 ms
Remote clock offset: -2.215 ms

Below is generated by plot.py at 2018-06-05 15:13:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.06 Mbit/s
95th percentile per-packet one-way delay: 54.447 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 80.86 Mbit/s
95th percentile per-packet one-way delay: 54.632 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 10.85 Mbit/s
95th percentile per-packet one-way delay: 55.307 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 9.06 Mbit/s
95th percentile per-packet one-way delay: 44.560 ms
Loss rate: 1.64%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-05 13:53:20

End at: 2018-06-05 13:53:50

Local clock offset: -0.076 ms

Remote clock offset: 0.199 ms

Below is generated by plot.py at 2018-06-05 15:13:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.53 Mbit/s

95th percentile per-packet one-way delay: 50.151 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 82.78 Mbit/s

95th percentile per-packet one-way delay: 49.027 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 9.29 Mbit/s

95th percentile per-packet one-way delay: 52.487 ms

Loss rate: 0.78%

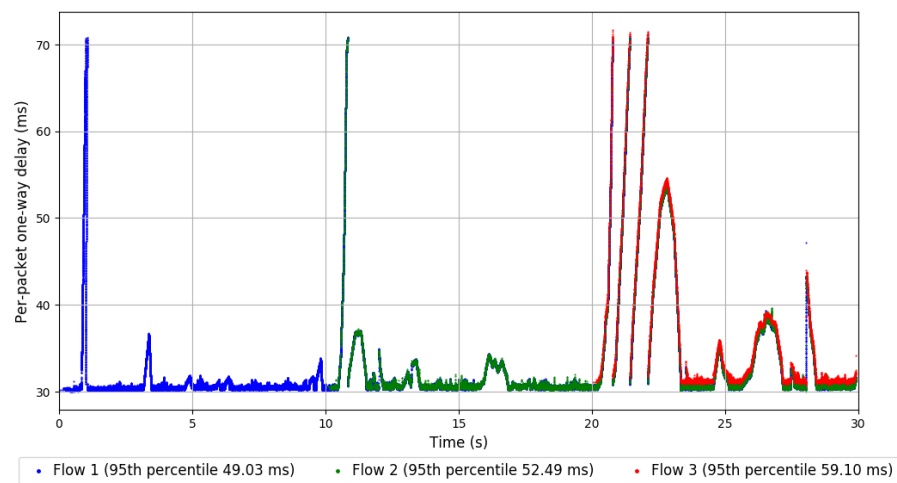
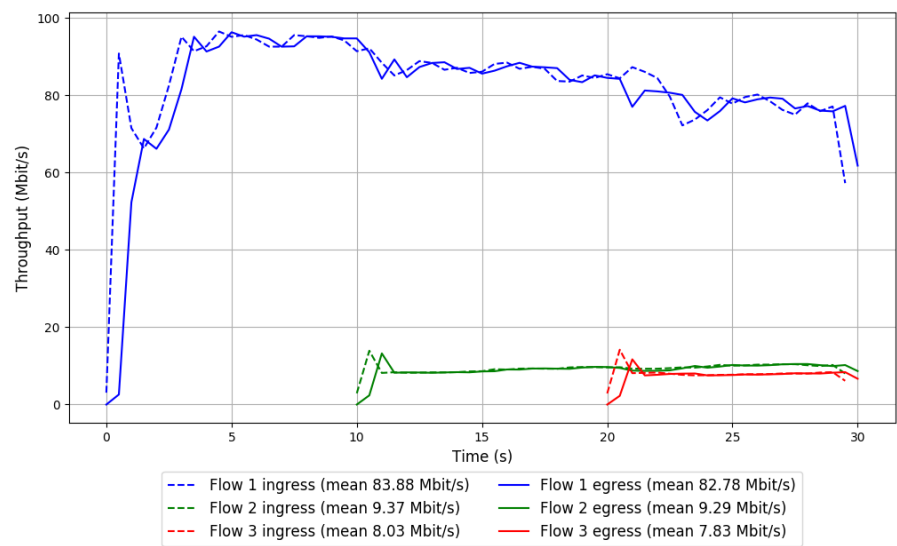
-- Flow 3:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 59.100 ms

Loss rate: 2.36%

Run 7: Report of PCC-Allegro — Data Link

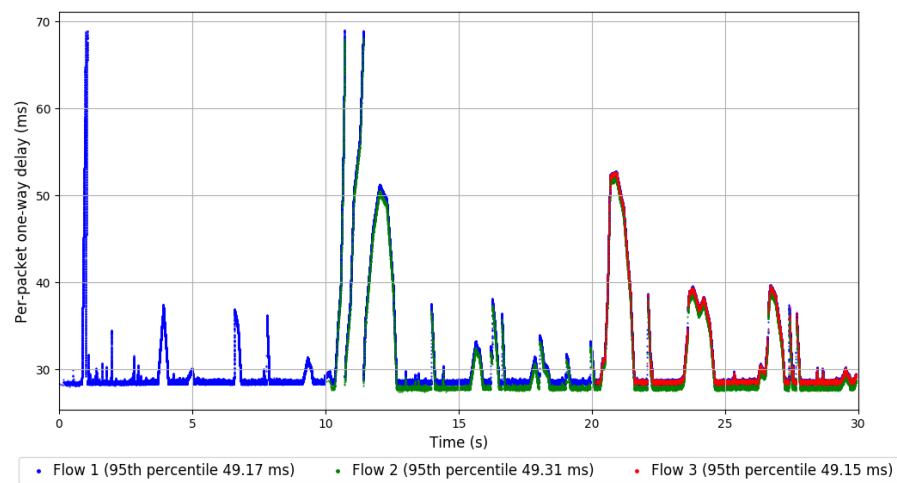
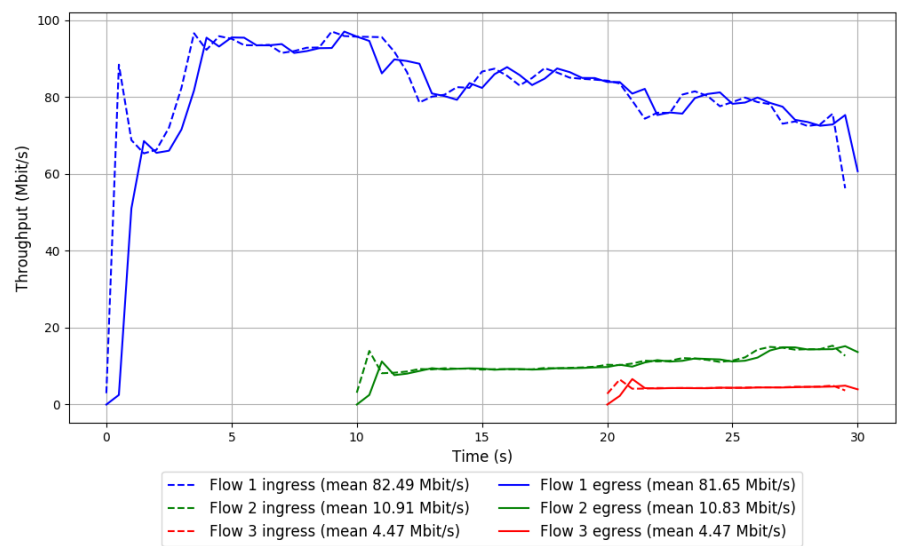


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-05 14:14:59
End at: 2018-06-05 14:15:29
Local clock offset: -0.151 ms
Remote clock offset: -2.518 ms

Below is generated by plot.py at 2018-06-05 15:13:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.32 Mbit/s
95th percentile per-packet one-way delay: 49.197 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 81.65 Mbit/s
95th percentile per-packet one-way delay: 49.168 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 10.83 Mbit/s
95th percentile per-packet one-way delay: 49.306 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 49.149 ms
Loss rate: 0.03%

Run 8: Report of PCC-Allegro — Data Link

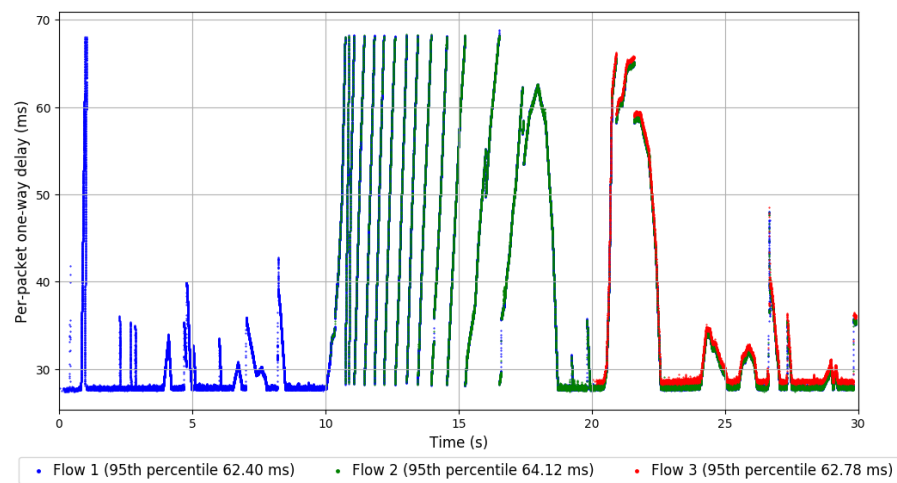
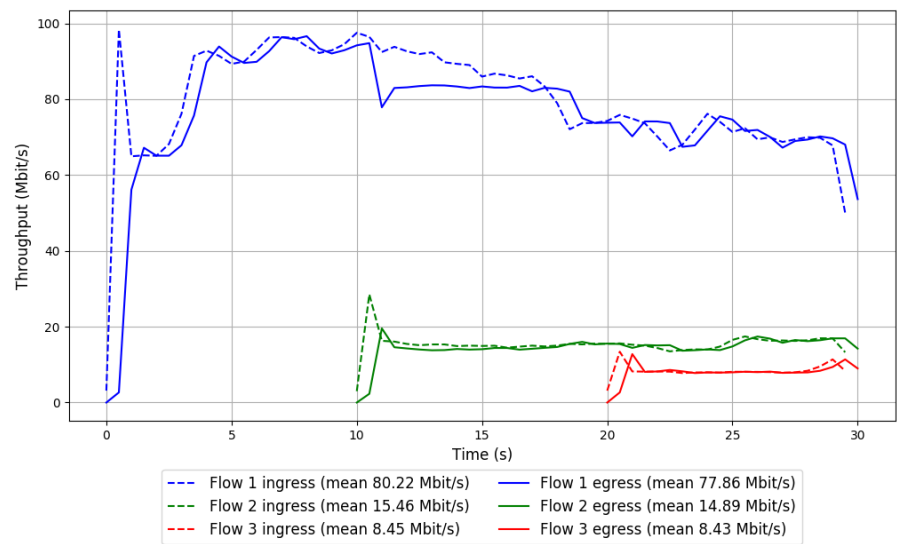


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-05 14:36:32
End at: 2018-06-05 14:37:02
Local clock offset: -0.192 ms
Remote clock offset: -1.733 ms

Below is generated by plot.py at 2018-06-05 15:14:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.54 Mbit/s
95th percentile per-packet one-way delay: 62.662 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 77.86 Mbit/s
95th percentile per-packet one-way delay: 62.395 ms
Loss rate: 2.92%
-- Flow 2:
Average throughput: 14.89 Mbit/s
95th percentile per-packet one-way delay: 64.117 ms
Loss rate: 3.68%
-- Flow 3:
Average throughput: 8.43 Mbit/s
95th percentile per-packet one-way delay: 62.784 ms
Loss rate: 0.25%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-05 14:58:04

End at: 2018-06-05 14:58:34

Local clock offset: -0.083 ms

Remote clock offset: 1.125 ms

Below is generated by plot.py at 2018-06-05 15:14:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.61 Mbit/s

95th percentile per-packet one-way delay: 51.884 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 80.00 Mbit/s

95th percentile per-packet one-way delay: 51.542 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 8.23 Mbit/s

95th percentile per-packet one-way delay: 53.064 ms

Loss rate: 1.25%

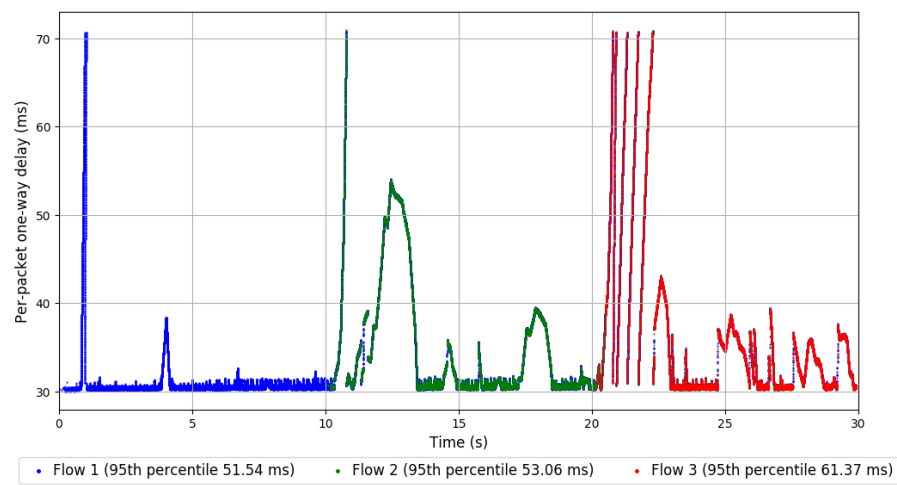
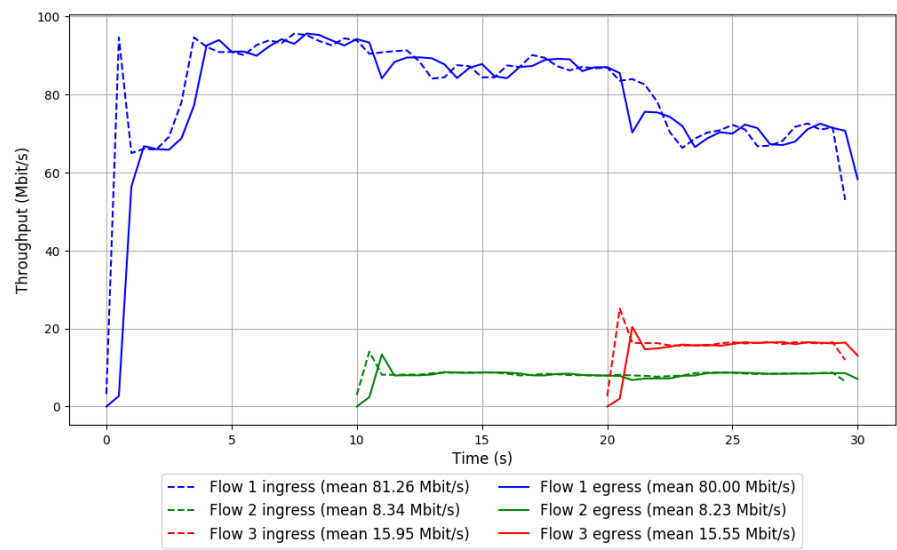
-- Flow 3:

Average throughput: 15.55 Mbit/s

95th percentile per-packet one-way delay: 61.372 ms

Loss rate: 2.51%

Run 10: Report of PCC-Allegro — Data Link

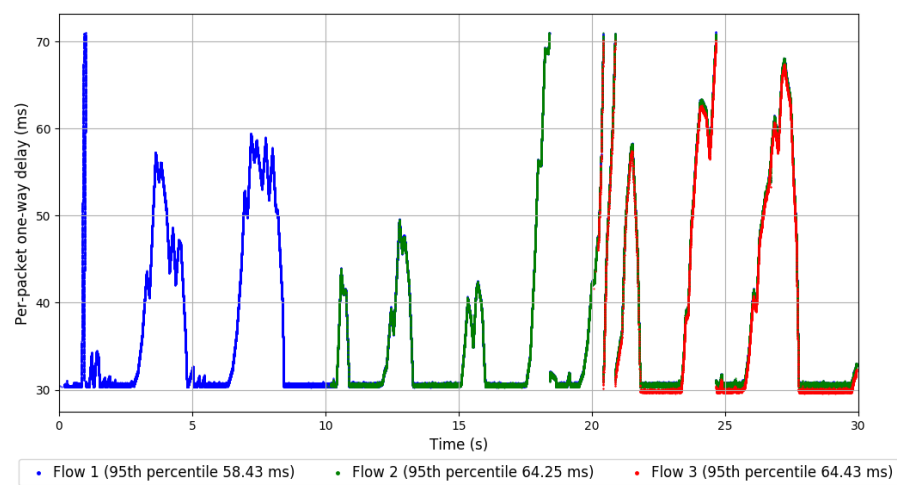
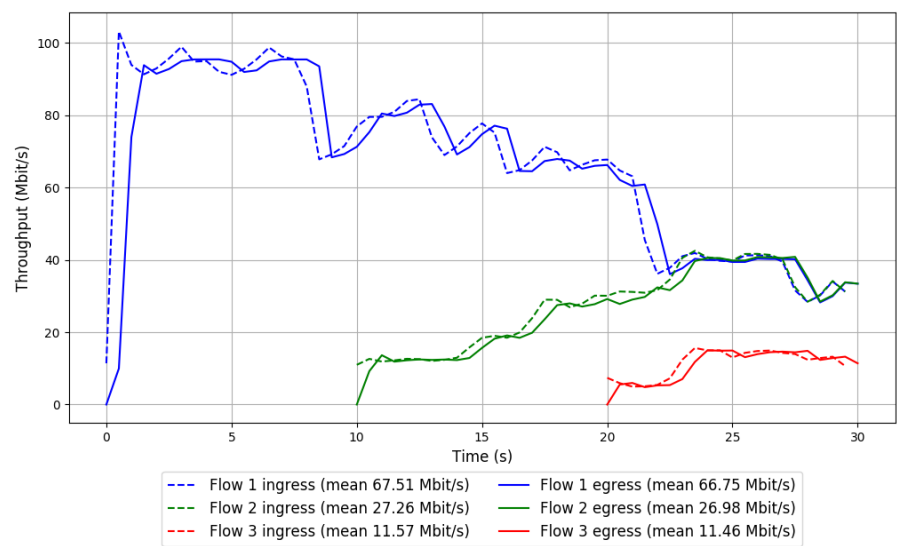


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-05 11:32:20
End at: 2018-06-05 11:32:50
Local clock offset: 0.095 ms
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2018-06-05 15:15:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.48 Mbit/s
95th percentile per-packet one-way delay: 61.062 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 66.75 Mbit/s
95th percentile per-packet one-way delay: 58.434 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 26.98 Mbit/s
95th percentile per-packet one-way delay: 64.250 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 11.46 Mbit/s
95th percentile per-packet one-way delay: 64.428 ms
Loss rate: 1.11%
```

Run 1: Report of PCC-Expr — Data Link

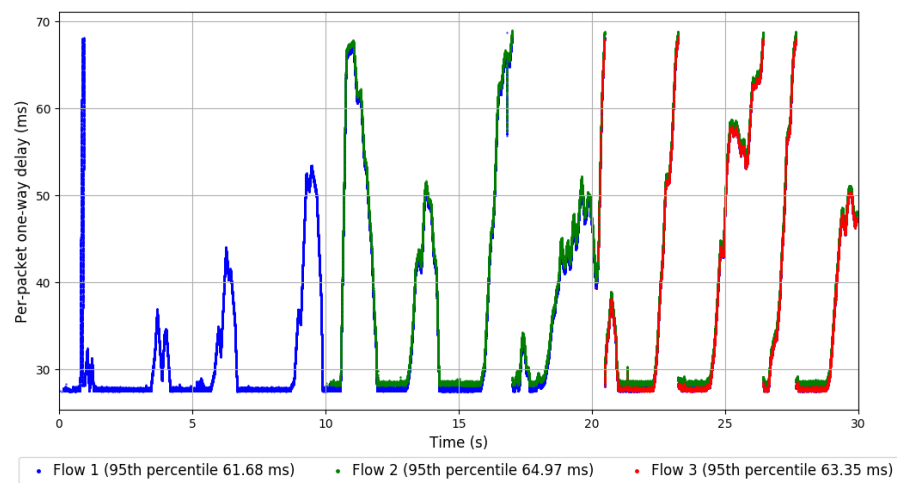
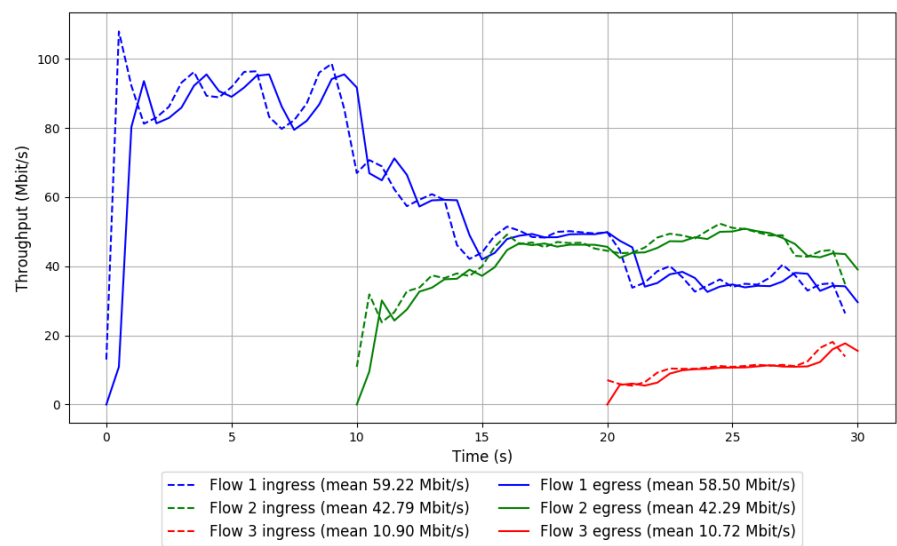


Run 2: Statistics of PCC-Expr

Start at: 2018-06-05 11:53:46
End at: 2018-06-05 11:54:16
Local clock offset: 0.378 ms
Remote clock offset: -1.686 ms

Below is generated by plot.py at 2018-06-05 15:15:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.18 Mbit/s
95th percentile per-packet one-way delay: 63.208 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 58.50 Mbit/s
95th percentile per-packet one-way delay: 61.678 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 42.29 Mbit/s
95th percentile per-packet one-way delay: 64.973 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 10.72 Mbit/s
95th percentile per-packet one-way delay: 63.355 ms
Loss rate: 1.62%

Run 2: Report of PCC-Expr — Data Link

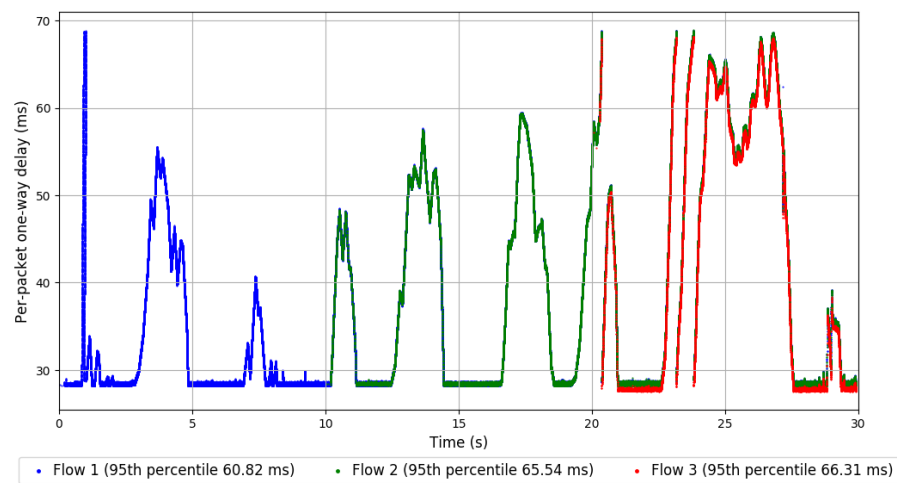
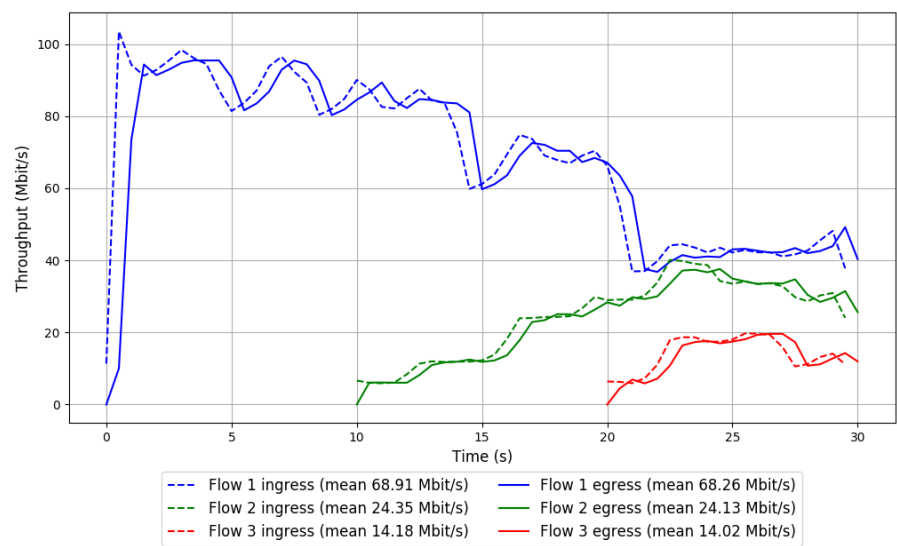


Run 3: Statistics of PCC-Expr

Start at: 2018-06-05 12:15:16
End at: 2018-06-05 12:15:46
Local clock offset: 0.058 ms
Remote clock offset: -1.974 ms

Below is generated by plot.py at 2018-06-05 15:15:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.93 Mbit/s
95th percentile per-packet one-way delay: 63.272 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 68.26 Mbit/s
95th percentile per-packet one-way delay: 60.824 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 24.13 Mbit/s
95th percentile per-packet one-way delay: 65.540 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 14.02 Mbit/s
95th percentile per-packet one-way delay: 66.311 ms
Loss rate: 1.39%

Run 3: Report of PCC-Expr — Data Link

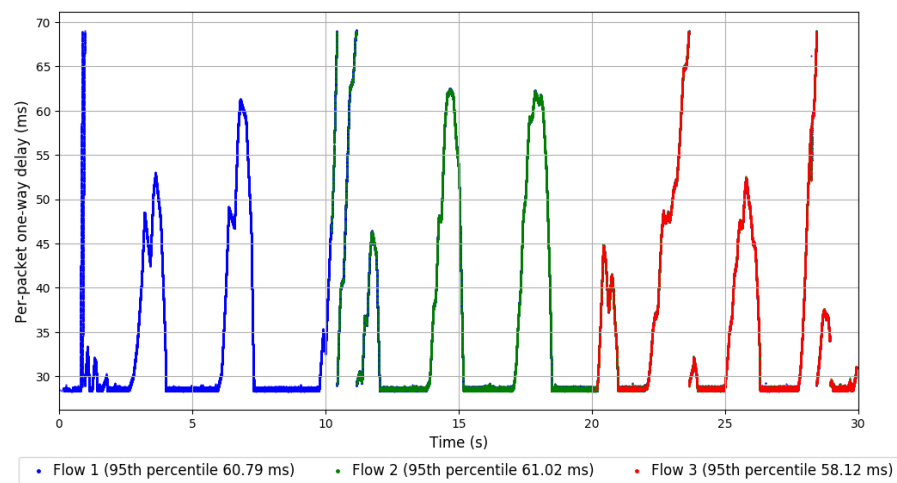
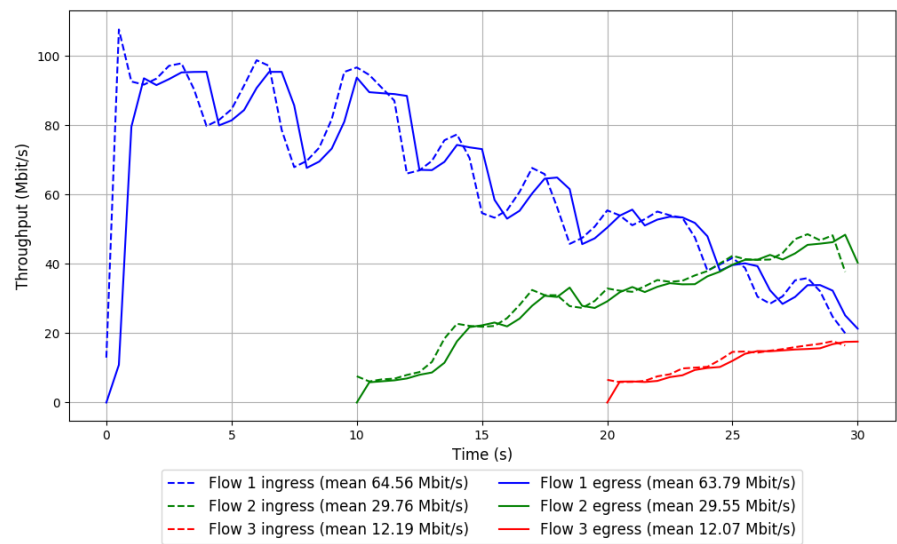


Run 4: Statistics of PCC-Expr

Start at: 2018-06-05 12:36:50
End at: 2018-06-05 12:37:20
Local clock offset: -0.105 ms
Remote clock offset: -2.045 ms

Below is generated by plot.py at 2018-06-05 15:15:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.42 Mbit/s
95th percentile per-packet one-way delay: 60.804 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 63.79 Mbit/s
95th percentile per-packet one-way delay: 60.794 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 29.55 Mbit/s
95th percentile per-packet one-way delay: 61.025 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 58.121 ms
Loss rate: 0.95%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-05 12:58:21

End at: 2018-06-05 12:58:51

Local clock offset: 0.284 ms

Remote clock offset: 0.345 ms

Below is generated by plot.py at 2018-06-05 15:15:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.34 Mbit/s

95th percentile per-packet one-way delay: 64.715 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 66.34 Mbit/s

95th percentile per-packet one-way delay: 62.234 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 22.77 Mbit/s

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

Loss rate: 1.70%

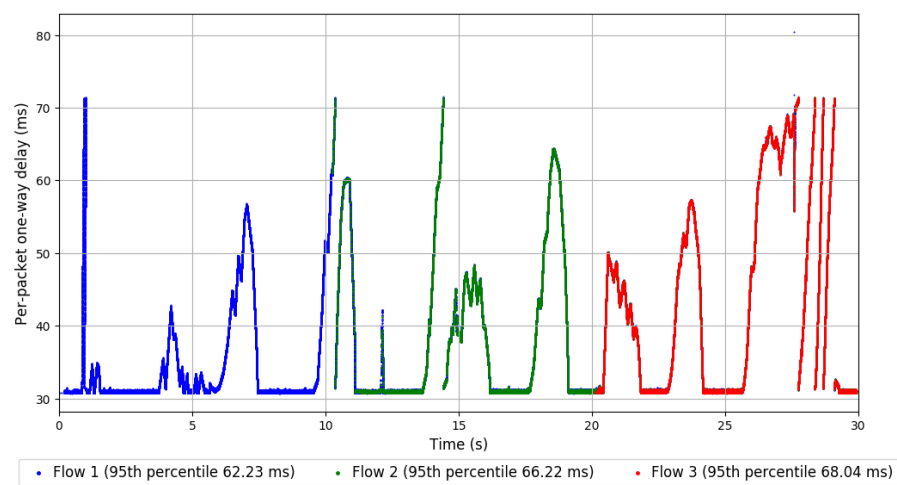
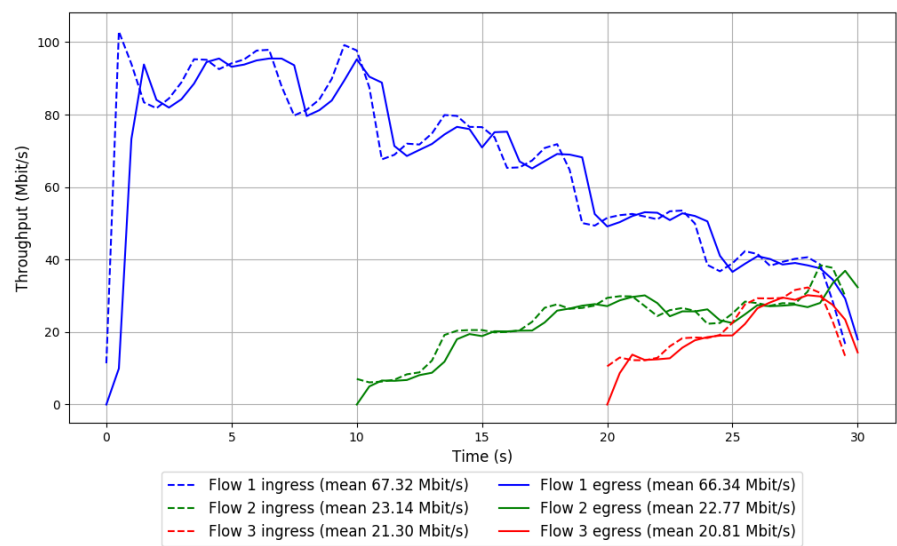
-- Flow 3:

Average throughput: 20.81 Mbit/s

95th percentile per-packet one-way delay: 68.044 ms

Loss rate: 2.33%

Run 5: Report of PCC-Expr — Data Link

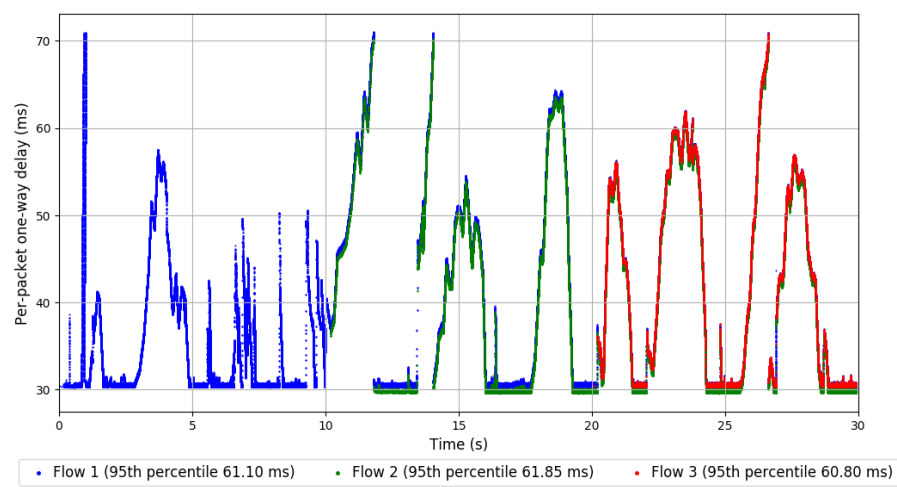
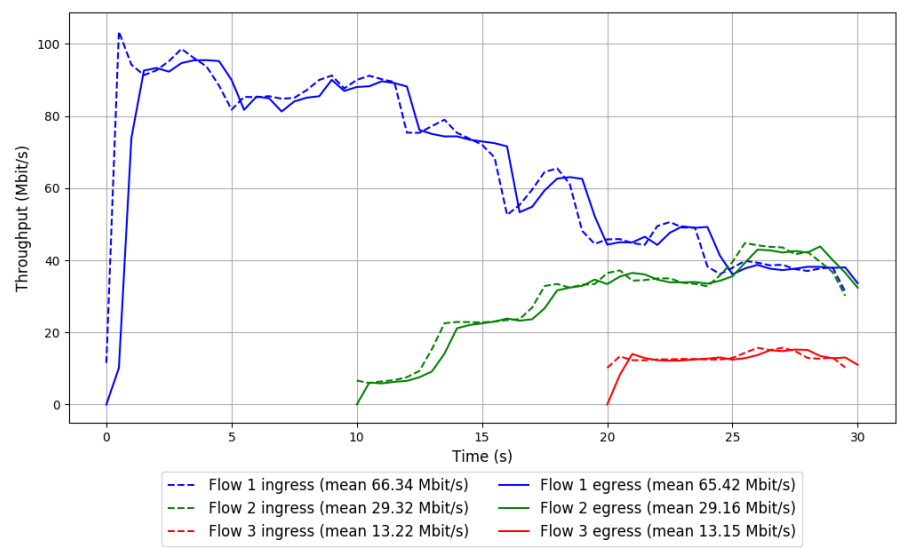


Run 6: Statistics of PCC-Expr

Start at: 2018-06-05 13:19:53
End at: 2018-06-05 13:20:23
Local clock offset: 0.077 ms
Remote clock offset: -0.188 ms

Below is generated by plot.py at 2018-06-05 15:15:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.15 Mbit/s
95th percentile per-packet one-way delay: 61.272 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 65.42 Mbit/s
95th percentile per-packet one-way delay: 61.099 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 29.16 Mbit/s
95th percentile per-packet one-way delay: 61.847 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 13.15 Mbit/s
95th percentile per-packet one-way delay: 60.802 ms
Loss rate: 0.50%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-05 13:41:21

End at: 2018-06-05 13:41:51

Local clock offset: -0.058 ms

Remote clock offset: -2.32 ms

Below is generated by plot.py at 2018-06-05 15:16:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.85 Mbit/s

95th percentile per-packet one-way delay: 58.300 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 65.15 Mbit/s

95th percentile per-packet one-way delay: 55.430 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 25.40 Mbit/s

95th percentile per-packet one-way delay: 61.969 ms

Loss rate: 0.72%

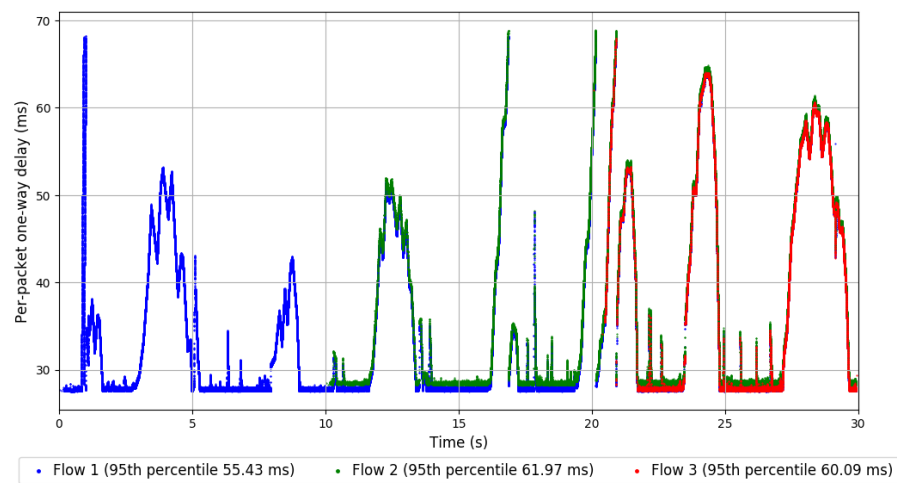
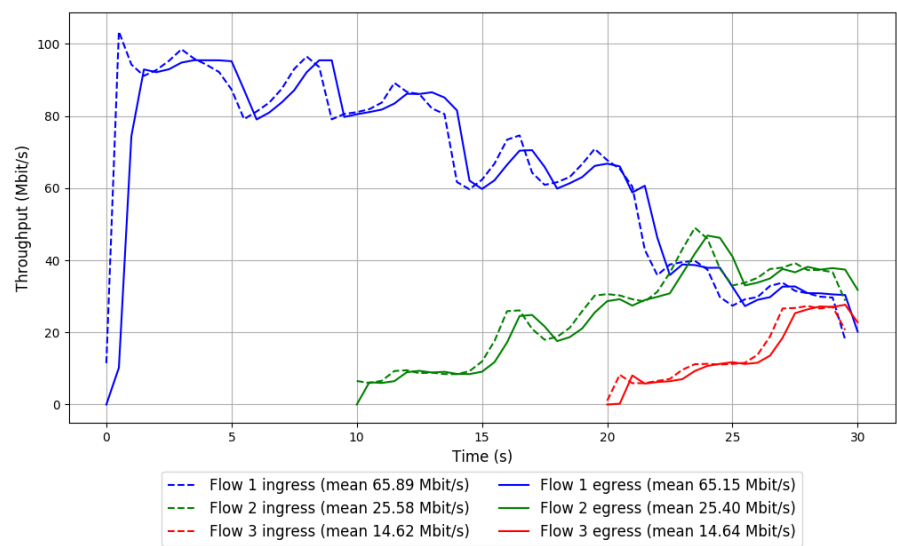
-- Flow 3:

Average throughput: 14.64 Mbit/s

95th percentile per-packet one-way delay: 60.088 ms

Loss rate: 0.18%

Run 7: Report of PCC-Expr — Data Link

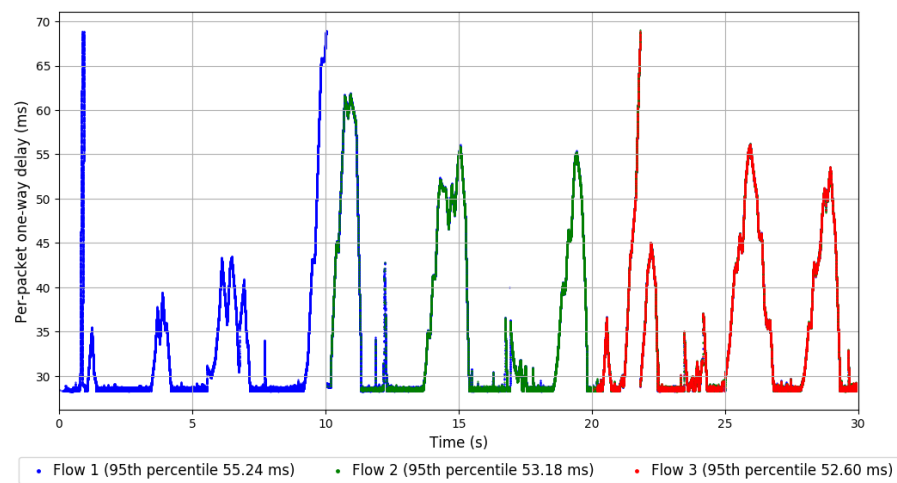
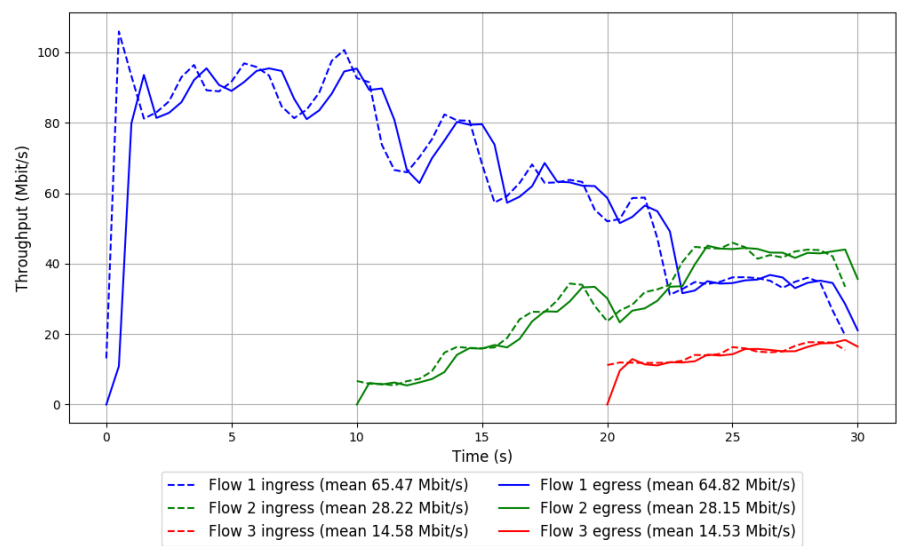


Run 8: Statistics of PCC-Expr

Start at: 2018-06-05 14:02:48
End at: 2018-06-05 14:03:18
Local clock offset: -0.006 ms
Remote clock offset: -2.401 ms

Below is generated by plot.py at 2018-06-05 15:16:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.34 Mbit/s
95th percentile per-packet one-way delay: 54.606 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 64.82 Mbit/s
95th percentile per-packet one-way delay: 55.236 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 28.15 Mbit/s
95th percentile per-packet one-way delay: 53.183 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 14.53 Mbit/s
95th percentile per-packet one-way delay: 52.600 ms
Loss rate: 0.32%

Run 8: Report of PCC-Expr — Data Link

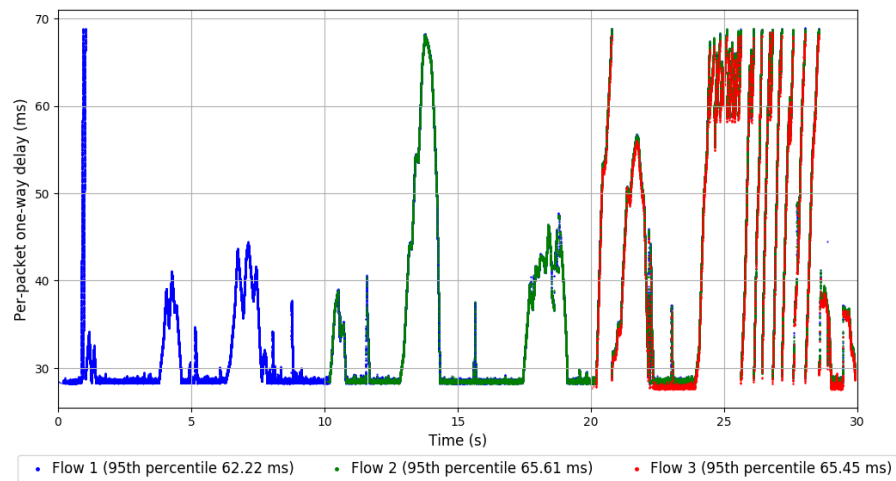
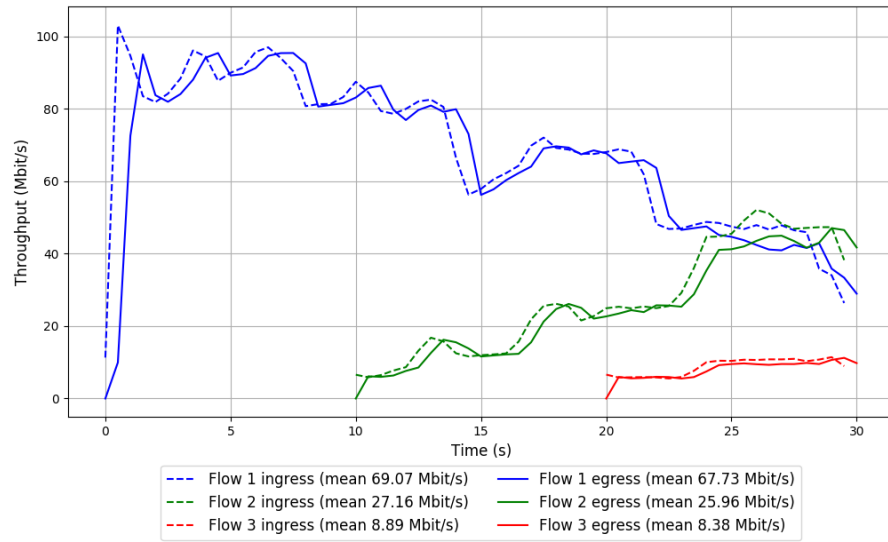


Run 9: Statistics of PCC-Expr

Start at: 2018-06-05 14:24:33
End at: 2018-06-05 14:25:03
Local clock offset: -0.086 ms
Remote clock offset: -2.259 ms

Below is generated by plot.py at 2018-06-05 15:17:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.77 Mbit/s
95th percentile per-packet one-way delay: 63.837 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 67.73 Mbit/s
95th percentile per-packet one-way delay: 62.224 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 25.96 Mbit/s
95th percentile per-packet one-way delay: 65.612 ms
Loss rate: 4.40%
-- Flow 3:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 65.448 ms
Loss rate: 5.75%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-05 14:46:02

End at: 2018-06-05 14:46:32

Local clock offset: -0.077 ms

Remote clock offset: 1.032 ms

Below is generated by plot.py at 2018-06-05 15:17:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.00 Mbit/s

95th percentile per-packet one-way delay: 60.791 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 59.76 Mbit/s

95th percentile per-packet one-way delay: 60.026 ms

Loss rate: 2.30%

-- Flow 2:

Average throughput: 37.96 Mbit/s

95th percentile per-packet one-way delay: 62.574 ms

Loss rate: 2.19%

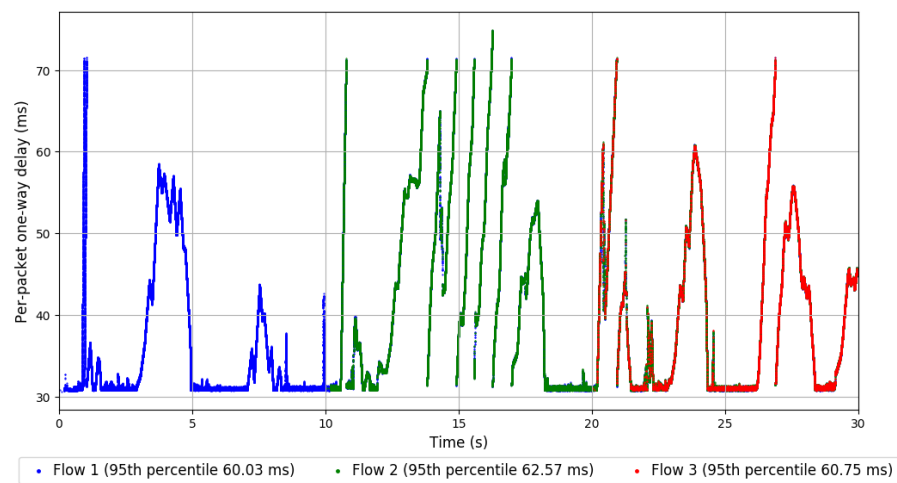
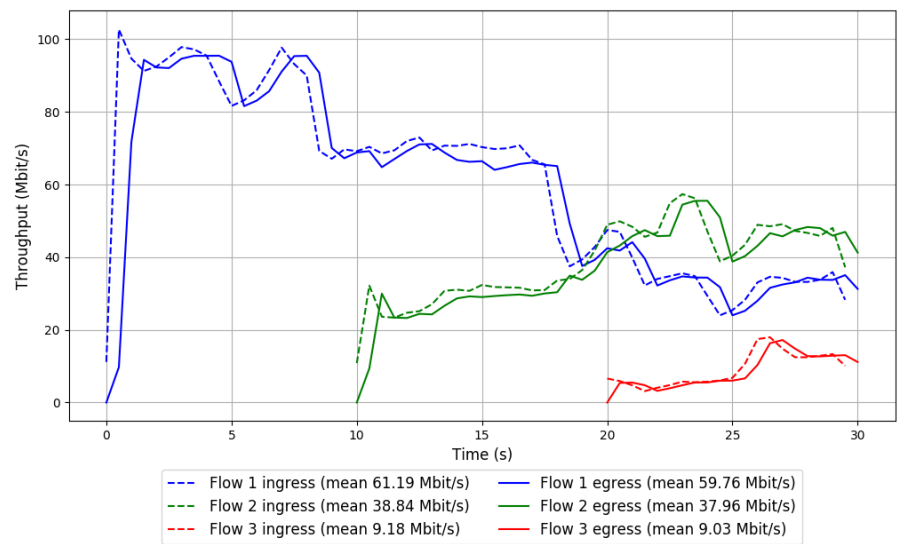
-- Flow 3:

Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 60.746 ms

Loss rate: 1.52%

Run 10: Report of PCC-Expr — Data Link

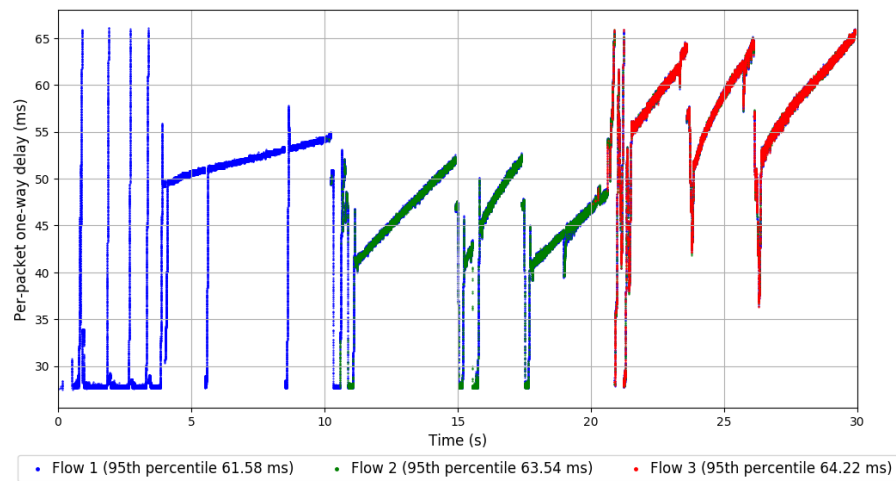
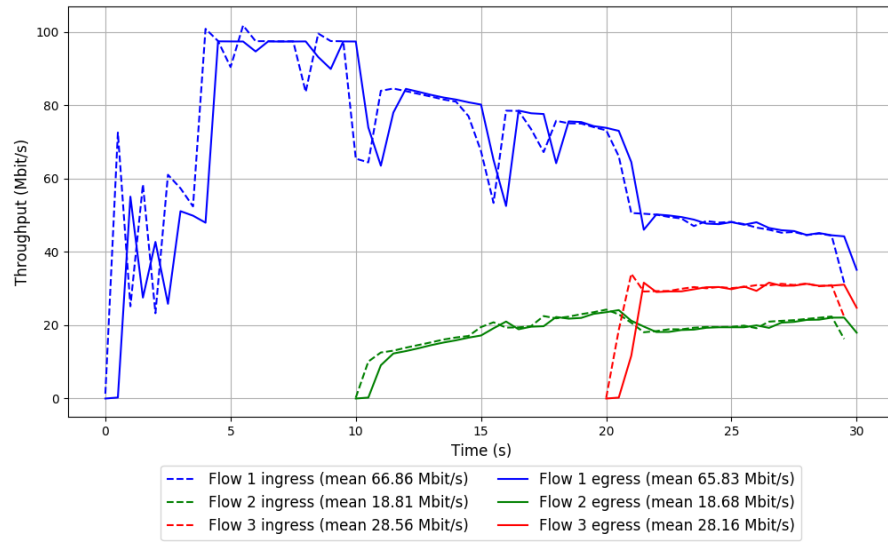


Run 1: Statistics of QUIC Cubic

Start at: 2018-06-05 11:29:35
End at: 2018-06-05 11:30:05
Local clock offset: -0.012 ms
Remote clock offset: -2.306 ms

Below is generated by plot.py at 2018-06-05 15:17:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.49 Mbit/s
95th percentile per-packet one-way delay: 62.797 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 65.83 Mbit/s
95th percentile per-packet one-way delay: 61.583 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 18.68 Mbit/s
95th percentile per-packet one-way delay: 63.540 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 28.16 Mbit/s
95th percentile per-packet one-way delay: 64.221 ms
Loss rate: 1.48%

Run 1: Report of QUIC Cubic — Data Link

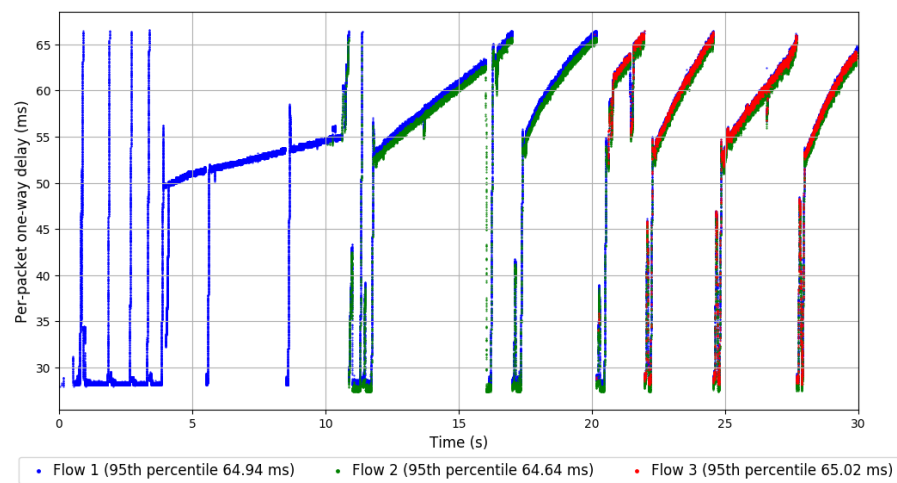
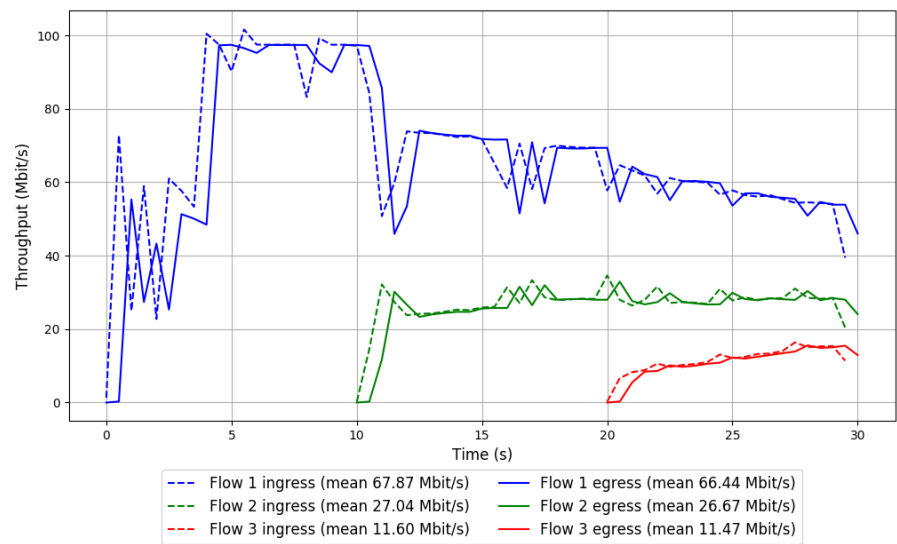


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-05 11:51:02
End at: 2018-06-05 11:51:32
Local clock offset: 0.373 ms
Remote clock offset: -1.794 ms

Below is generated by plot.py at 2018-06-05 15:17:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.91 Mbit/s
95th percentile per-packet one-way delay: 64.830 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 66.44 Mbit/s
95th percentile per-packet one-way delay: 64.938 ms
Loss rate: 1.98%
-- Flow 2:
Average throughput: 26.67 Mbit/s
95th percentile per-packet one-way delay: 64.645 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 11.47 Mbit/s
95th percentile per-packet one-way delay: 65.015 ms
Loss rate: 1.28%

Run 2: Report of QUIC Cubic — Data Link

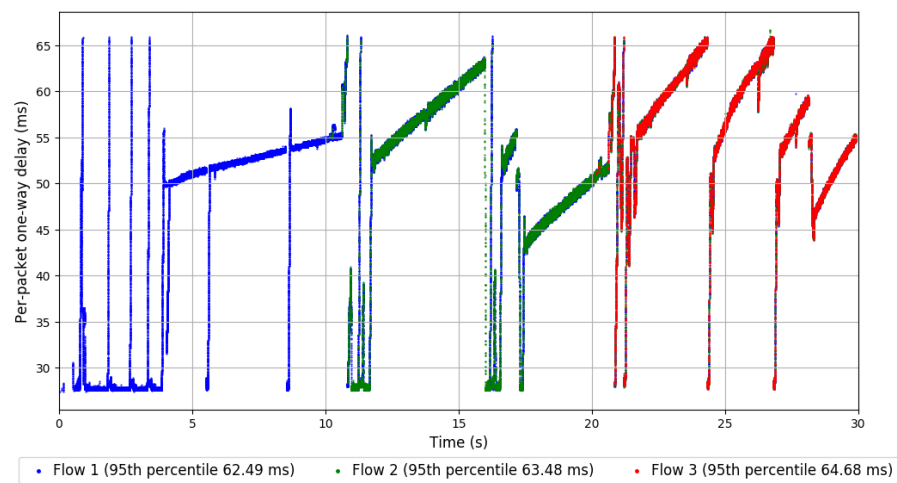
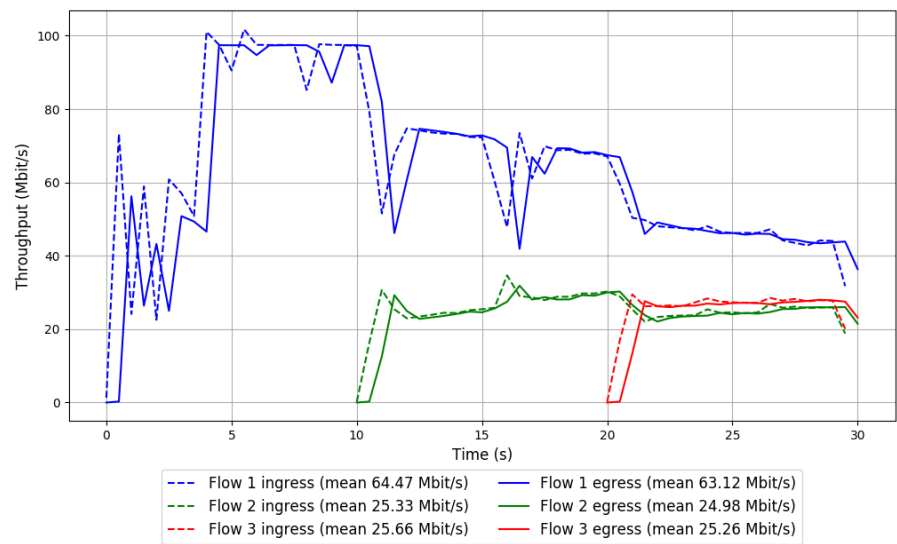


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-05 12:12:32
End at: 2018-06-05 12:13:02
Local clock offset: 0.032 ms
Remote clock offset: -1.877 ms

Below is generated by plot.py at 2018-06-05 15:17:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.01 Mbit/s
95th percentile per-packet one-way delay: 62.999 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 63.12 Mbit/s
95th percentile per-packet one-way delay: 62.491 ms
Loss rate: 2.01%
-- Flow 2:
Average throughput: 24.98 Mbit/s
95th percentile per-packet one-way delay: 63.481 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 25.26 Mbit/s
95th percentile per-packet one-way delay: 64.684 ms
Loss rate: 1.50%

Run 3: Report of QUIC Cubic — Data Link

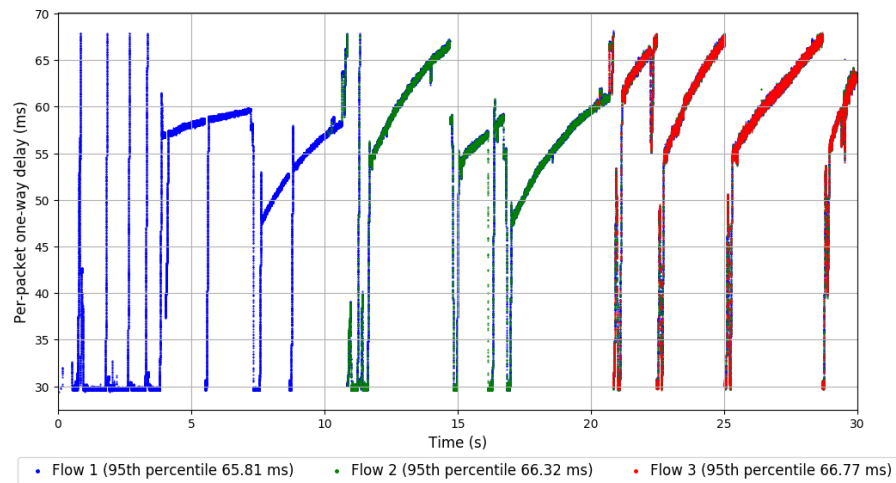
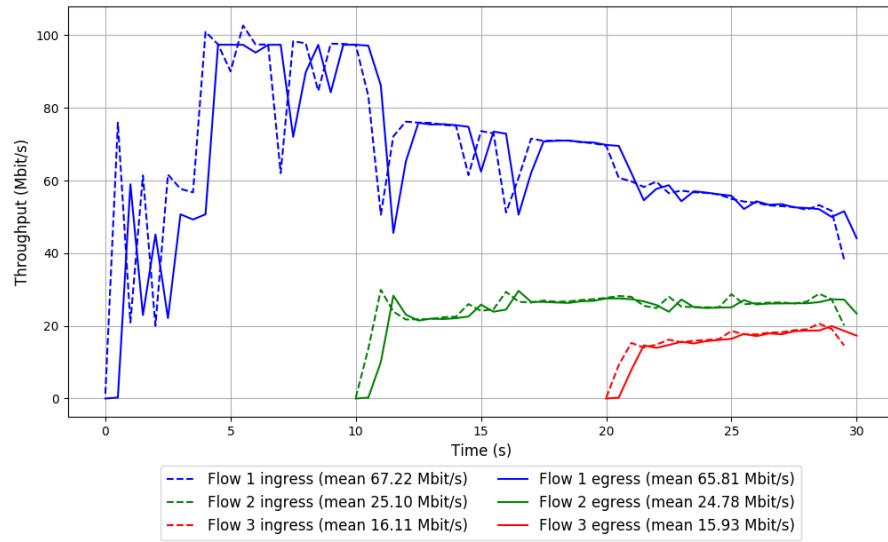


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-05 12:34:05
End at: 2018-06-05 12:34:35
Local clock offset: -0.112 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-05 15:17:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.49 Mbit/s
95th percentile per-packet one-way delay: 66.017 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 65.81 Mbit/s
95th percentile per-packet one-way delay: 65.811 ms
Loss rate: 1.98%
-- Flow 2:
Average throughput: 24.78 Mbit/s
95th percentile per-packet one-way delay: 66.317 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 15.93 Mbit/s
95th percentile per-packet one-way delay: 66.770 ms
Loss rate: 1.04%

Run 4: Report of QUIC Cubic — Data Link

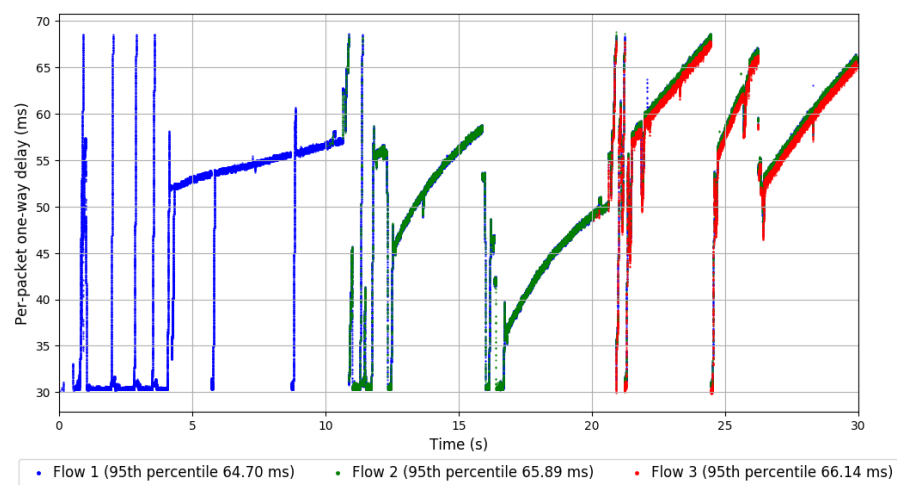
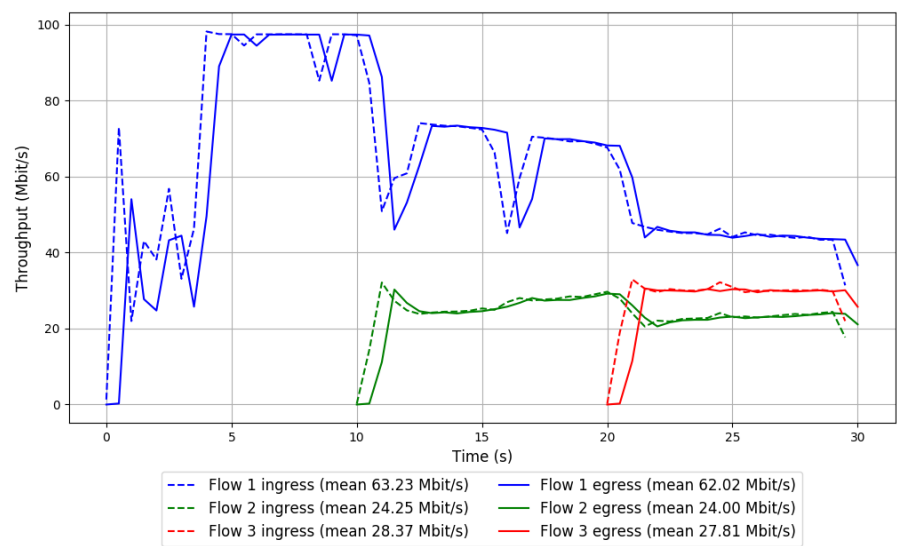


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-05 12:55:37
End at: 2018-06-05 12:56:07
Local clock offset: 0.276 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2018-06-05 15:17:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.10 Mbit/s
95th percentile per-packet one-way delay: 65.348 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 62.02 Mbit/s
95th percentile per-packet one-way delay: 64.697 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 24.00 Mbit/s
95th percentile per-packet one-way delay: 65.886 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 27.81 Mbit/s
95th percentile per-packet one-way delay: 66.142 ms
Loss rate: 1.79%

Run 5: Report of QUIC Cubic — Data Link

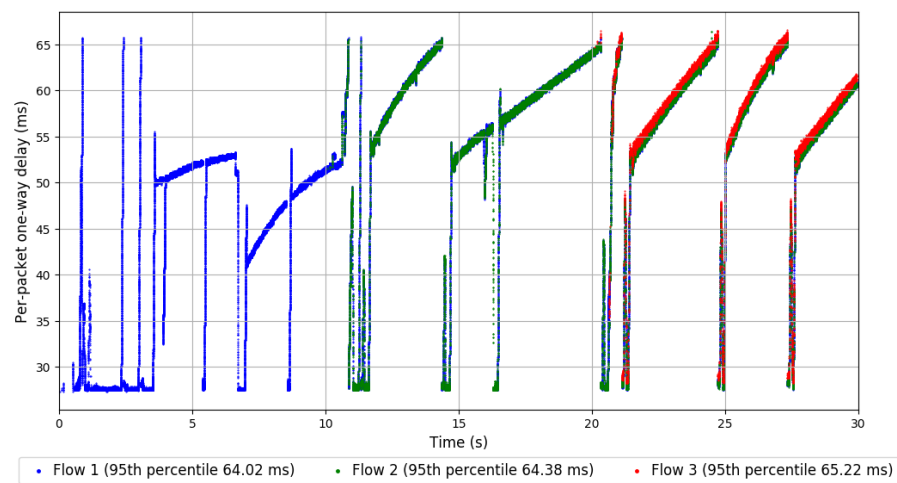
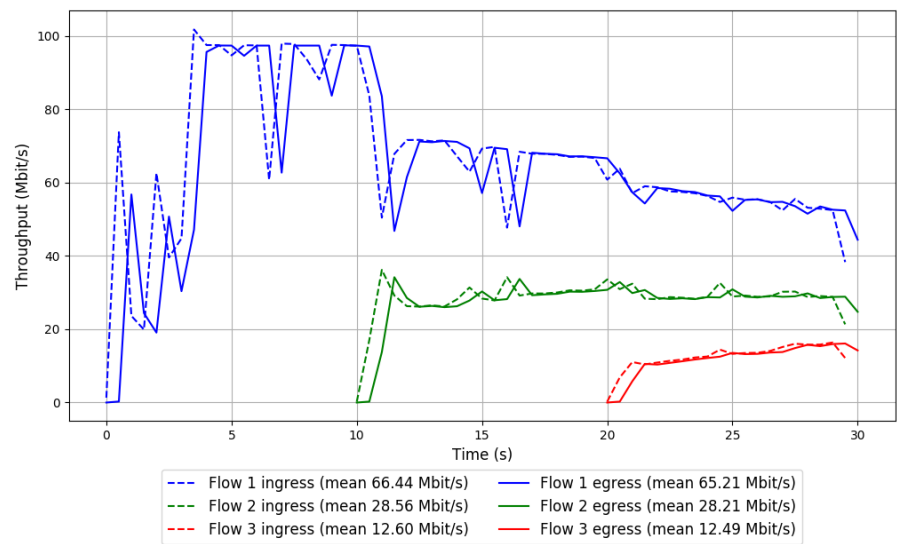


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-05 13:17:08
End at: 2018-06-05 13:17:38
Local clock offset: 0.116 ms
Remote clock offset: -2.242 ms

Below is generated by plot.py at 2018-06-05 15:17:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.03 Mbit/s
95th percentile per-packet one-way delay: 64.214 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 65.21 Mbit/s
95th percentile per-packet one-way delay: 64.018 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 28.21 Mbit/s
95th percentile per-packet one-way delay: 64.375 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 12.49 Mbit/s
95th percentile per-packet one-way delay: 65.222 ms
Loss rate: 0.99%

Run 6: Report of QUIC Cubic — Data Link

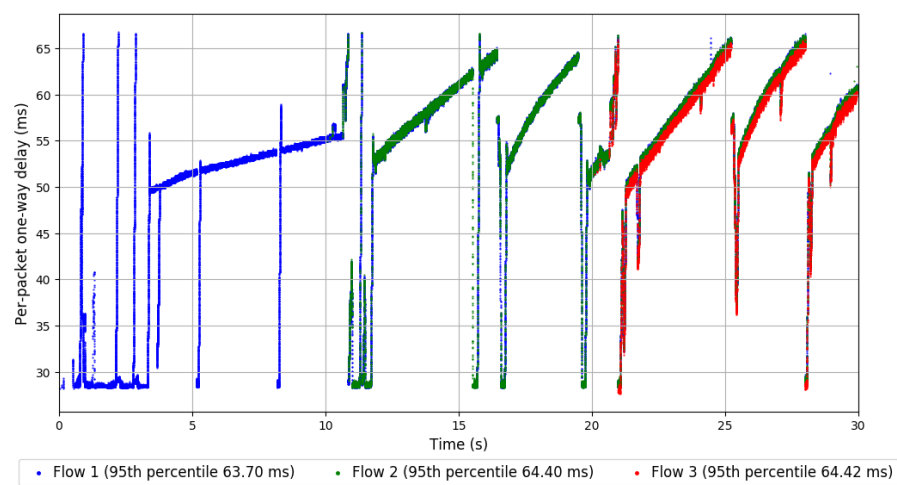
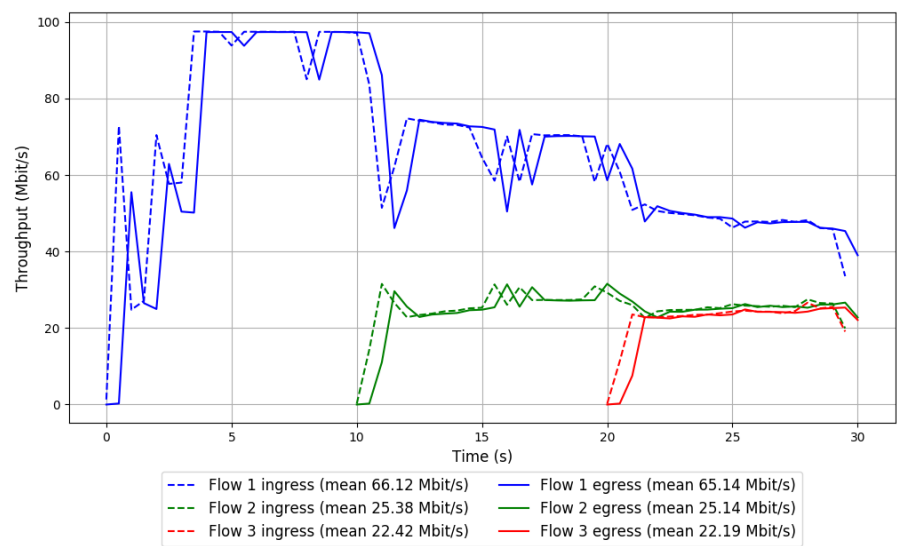


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-05 13:38:37
End at: 2018-06-05 13:39:07
Local clock offset: -0.058 ms
Remote clock offset: -2.237 ms

Below is generated by plot.py at 2018-06-05 15:18:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.11 Mbit/s
95th percentile per-packet one-way delay: 63.944 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 65.14 Mbit/s
95th percentile per-packet one-way delay: 63.701 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 25.14 Mbit/s
95th percentile per-packet one-way delay: 64.402 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 22.19 Mbit/s
95th percentile per-packet one-way delay: 64.416 ms
Loss rate: 0.94%

Run 7: Report of QUIC Cubic — Data Link

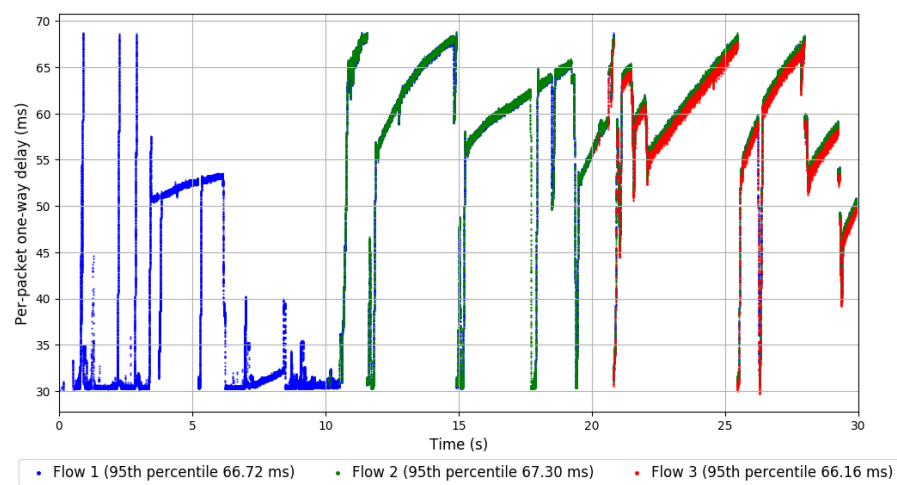
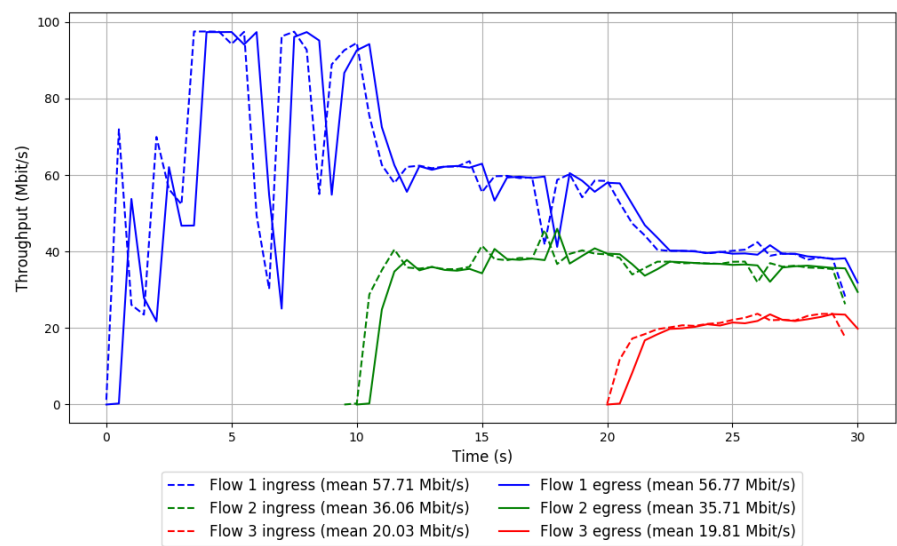


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-05 14:00:03
End at: 2018-06-05 14:00:33
Local clock offset: 0.01 ms
Remote clock offset: -0.344 ms

Below is generated by plot.py at 2018-06-05 15:18:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.05 Mbit/s
95th percentile per-packet one-way delay: 66.867 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 56.77 Mbit/s
95th percentile per-packet one-way delay: 66.716 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 35.71 Mbit/s
95th percentile per-packet one-way delay: 67.304 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 19.81 Mbit/s
95th percentile per-packet one-way delay: 66.159 ms
Loss rate: 1.15%

Run 8: Report of QUIC Cubic — Data Link

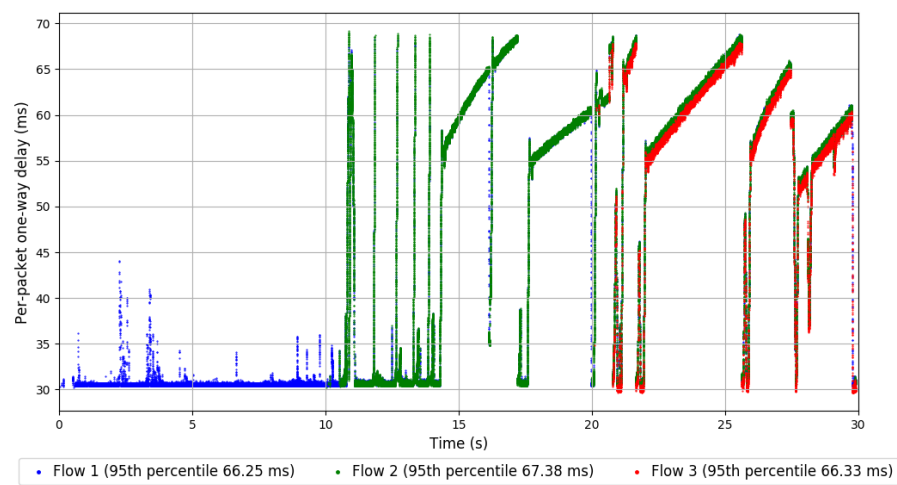
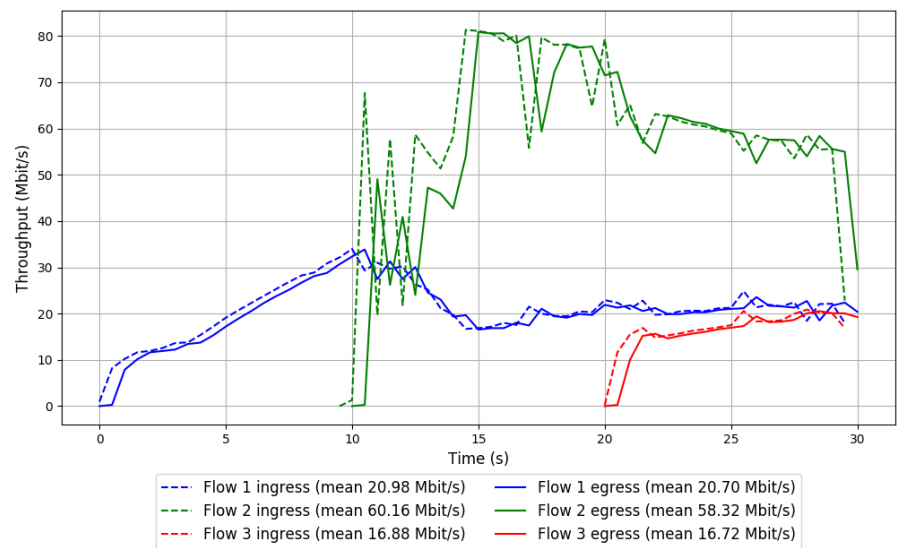


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-05 14:21:50
End at: 2018-06-05 14:22:20
Local clock offset: -0.179 ms
Remote clock offset: -0.504 ms

Below is generated by plot.py at 2018-06-05 15:18:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.98 Mbit/s
95th percentile per-packet one-way delay: 67.112 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 20.70 Mbit/s
95th percentile per-packet one-way delay: 66.255 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 58.32 Mbit/s
95th percentile per-packet one-way delay: 67.382 ms
Loss rate: 3.07%
-- Flow 3:
Average throughput: 16.72 Mbit/s
95th percentile per-packet one-way delay: 66.326 ms
Loss rate: 1.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-05 14:43:18

End at: 2018-06-05 14:43:48

Local clock offset: -0.085 ms

Remote clock offset: 0.672 ms

Below is generated by plot.py at 2018-06-05 15:18:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.55 Mbit/s

95th percentile per-packet one-way delay: 66.254 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 67.71 Mbit/s

95th percentile per-packet one-way delay: 66.178 ms

Loss rate: 1.81%

-- Flow 2:

Average throughput: 17.11 Mbit/s

95th percentile per-packet one-way delay: 66.829 ms

Loss rate: 1.26%

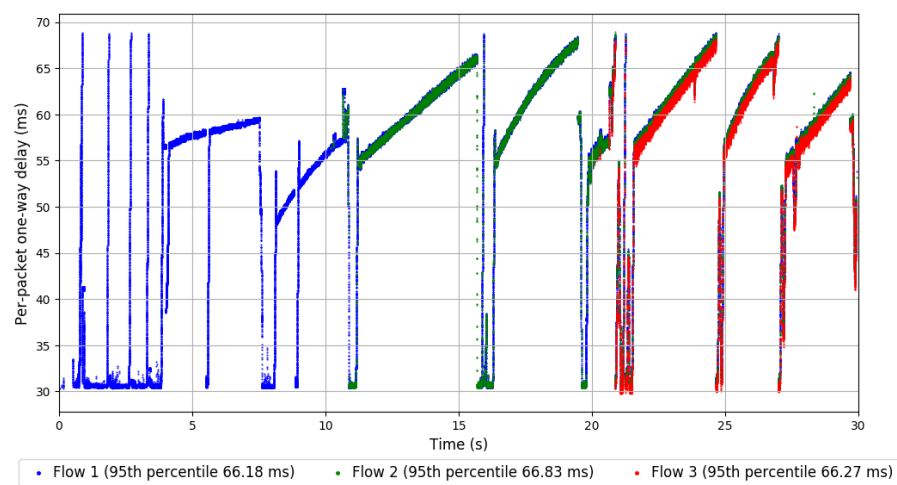
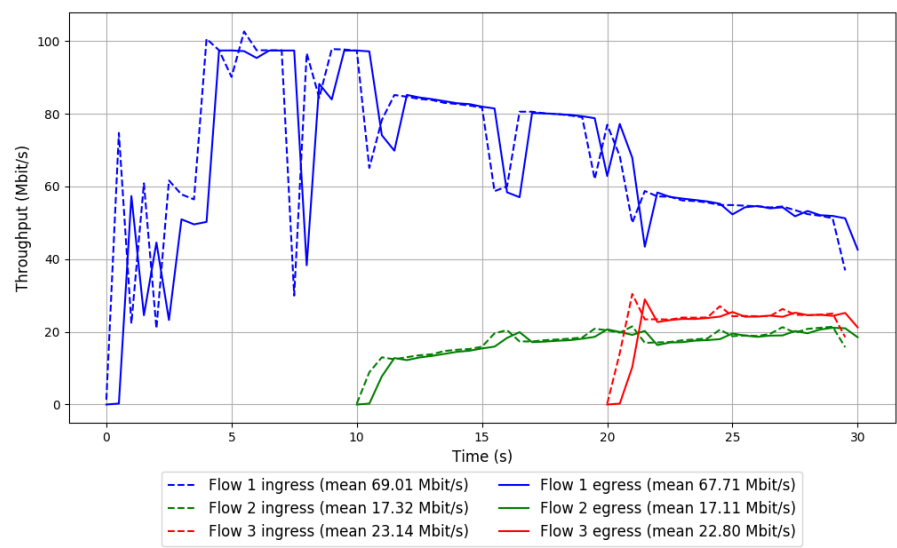
-- Flow 3:

Average throughput: 22.80 Mbit/s

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

Loss rate: 1.49%

Run 10: Report of QUIC Cubic — Data Link

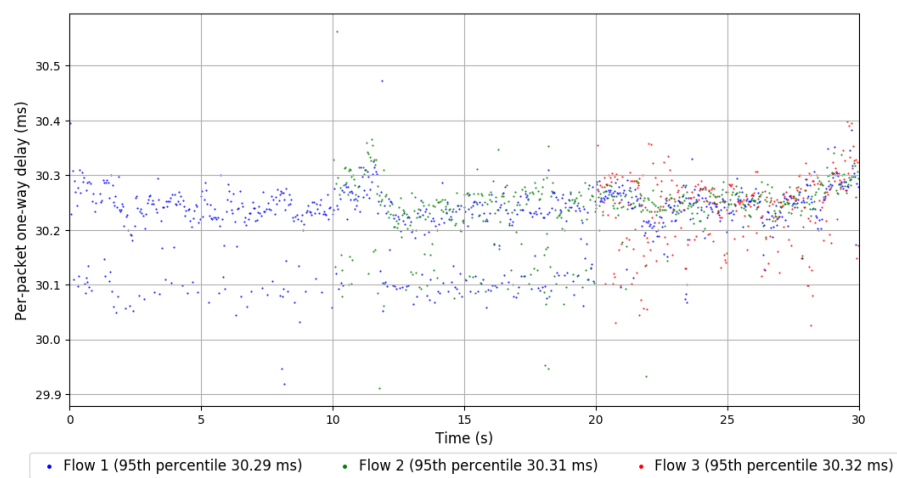
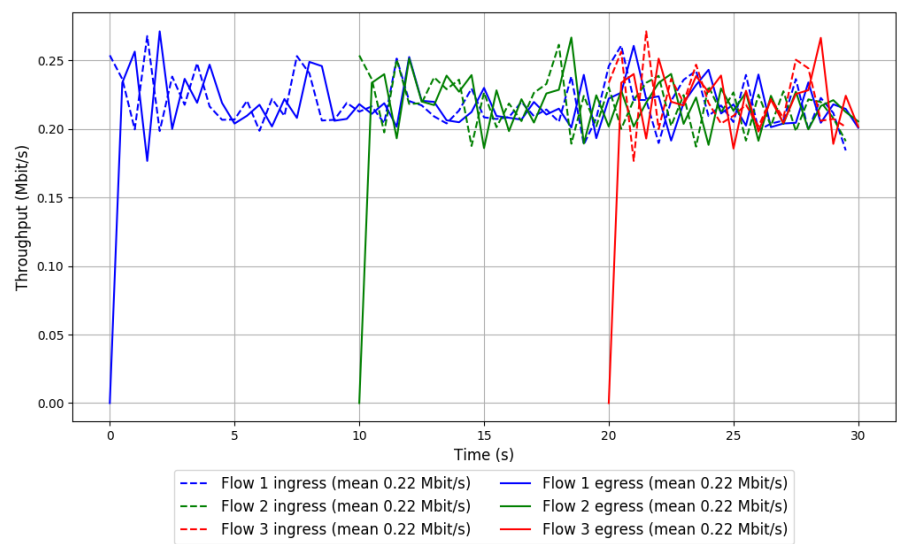


```
Run 1: Statistics of SReAM

Start at: 2018-06-05 11:35:03
End at: 2018-06-05 11:35:33
Local clock offset: 0.104 ms
Remote clock offset: 0.404 ms

# Below is generated by plot.py at 2018-06-05 15:18:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.304 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.291 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.310 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.323 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

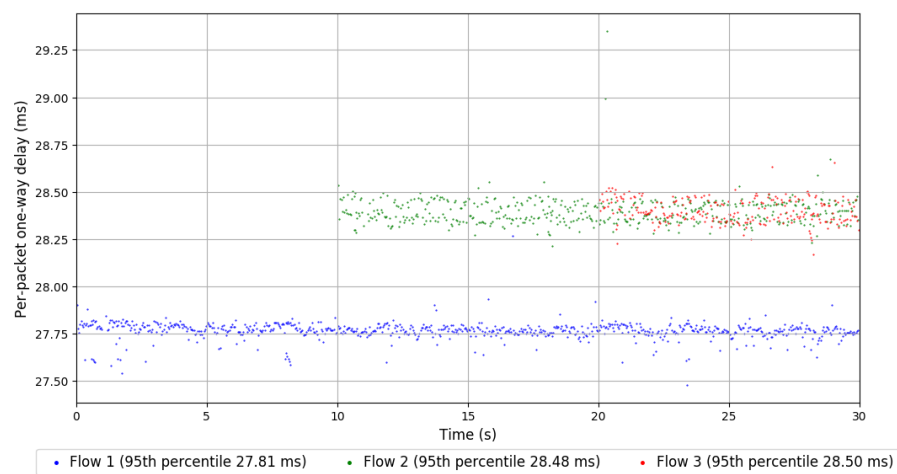
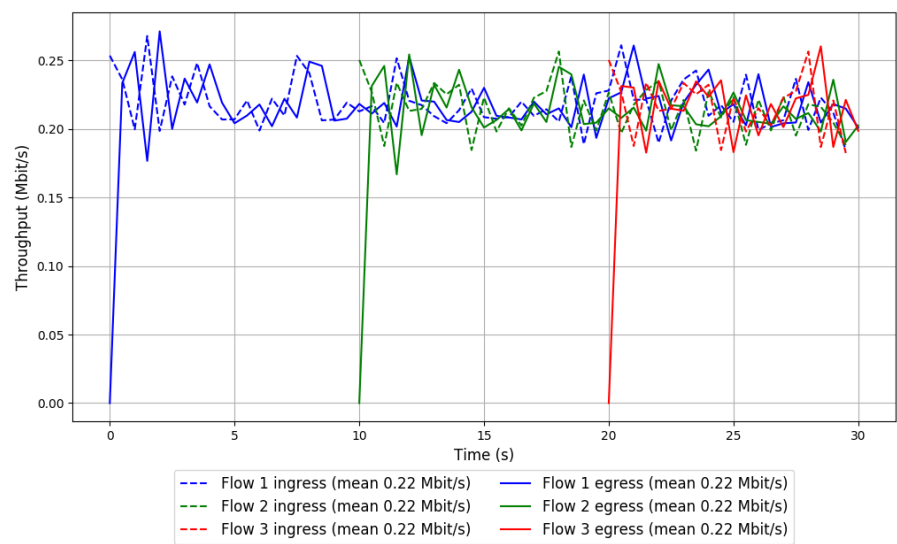


Run 2: Statistics of SReAM

Start at: 2018-06-05 11:56:30
End at: 2018-06-05 11:57:00
Local clock offset: 0.287 ms
Remote clock offset: -1.602 ms

Below is generated by plot.py at 2018-06-05 15:18:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 28.470 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.813 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.475 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.495 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-06-05 12:18:01

End at: 2018-06-05 12:18:31

Local clock offset: 0.014 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-06-05 15:18:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.505 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.494 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.818 ms

Loss rate: 0.00%

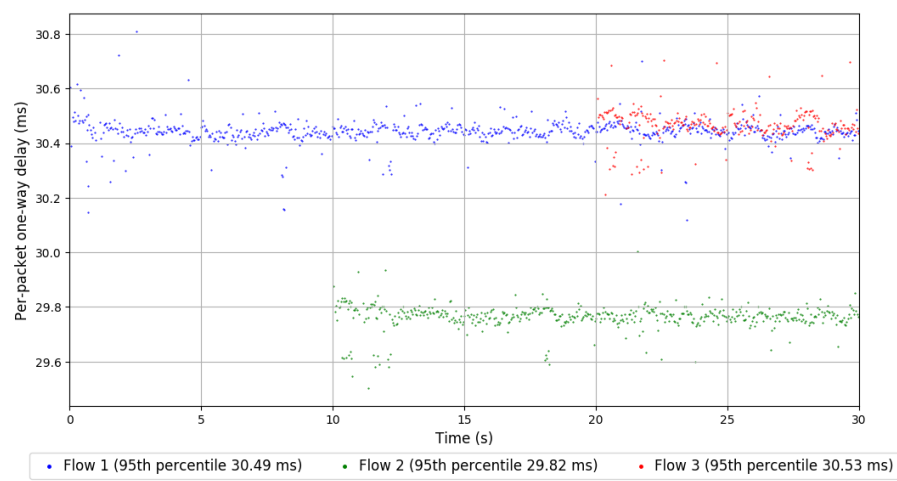
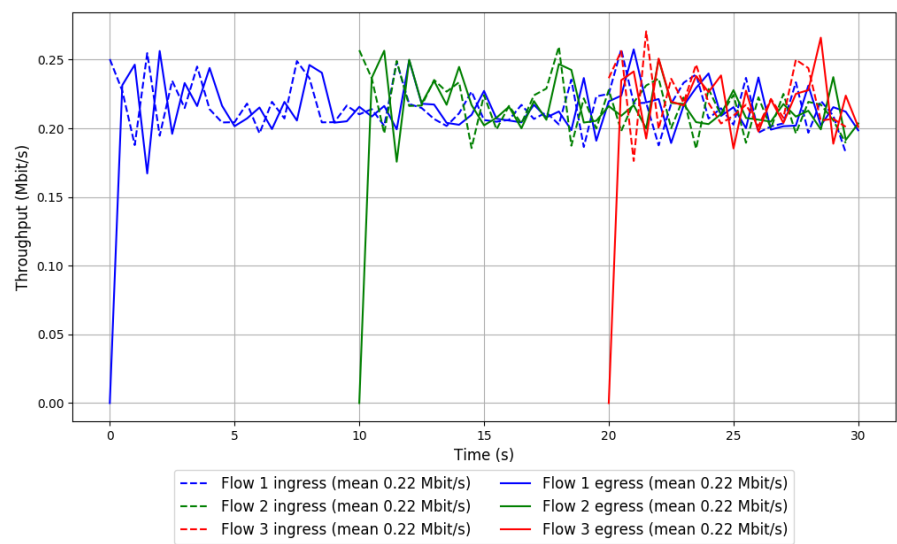
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.529 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-06-05 12:39:35

End at: 2018-06-05 12:40:05

Local clock offset: 0.089 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-05 15:18:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 31.423 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.496 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 31.820 ms

Loss rate: 0.43%

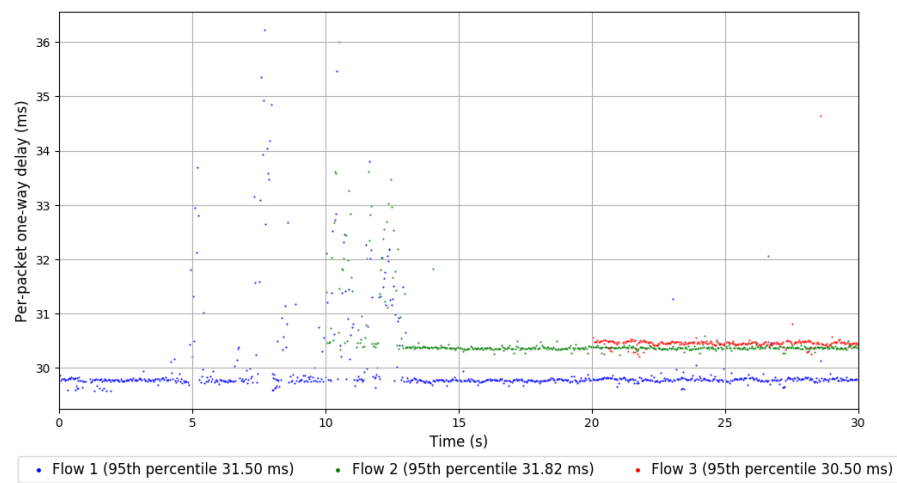
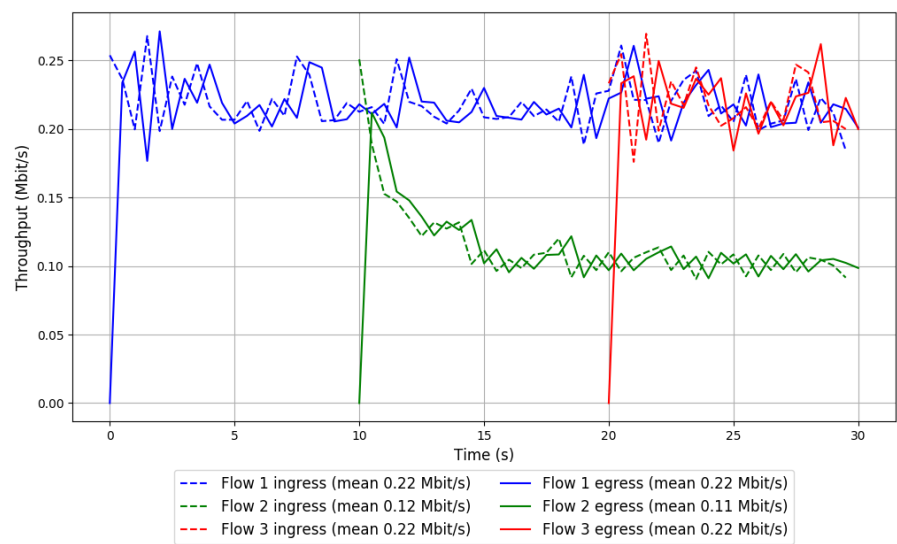
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.501 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-06-05 13:01:06

End at: 2018-06-05 13:01:36

Local clock offset: 0.205 ms

Remote clock offset: 0.397 ms

Below is generated by plot.py at 2018-06-05 15:18:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 31.069 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.084 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.377 ms

Loss rate: 0.00%

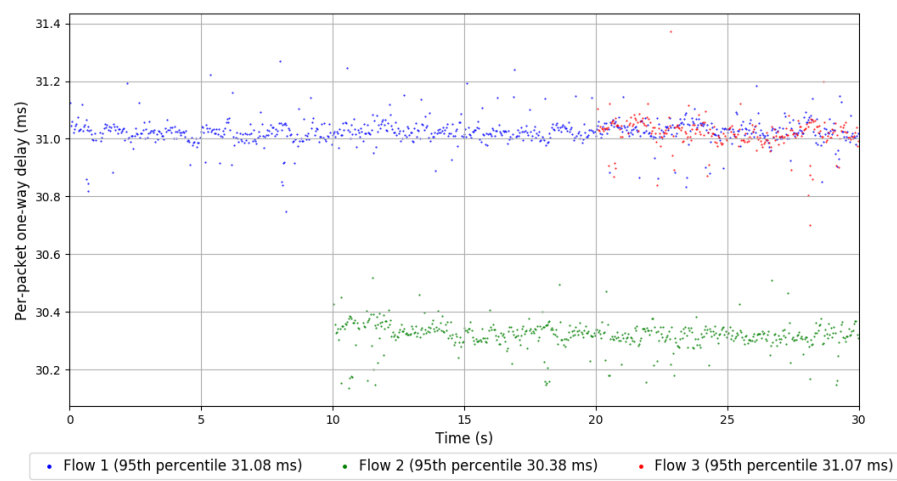
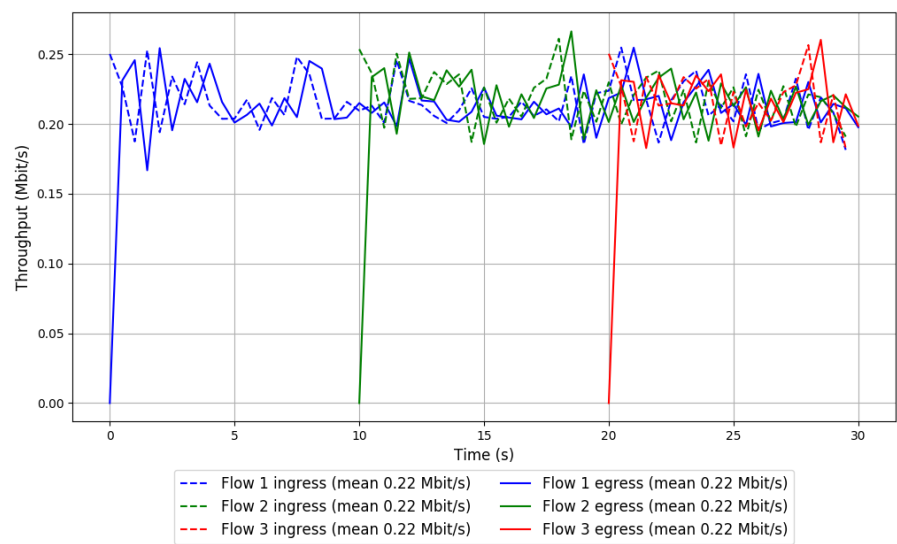
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.074 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

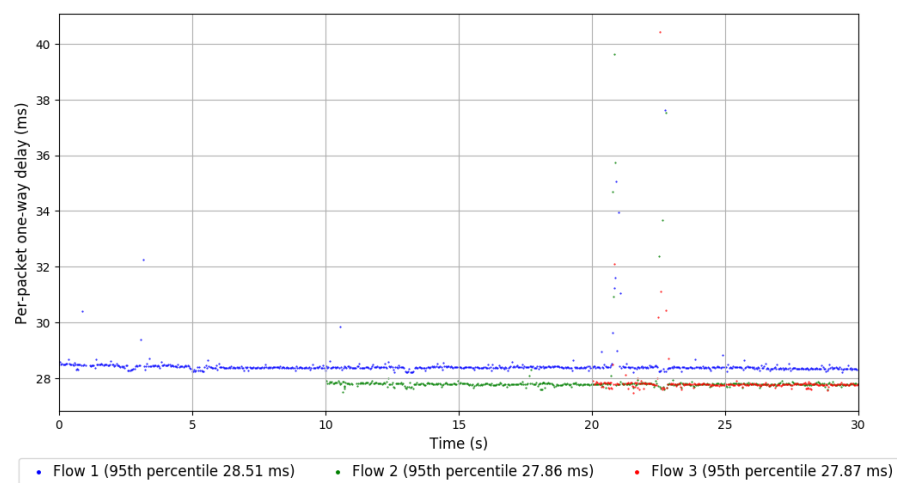
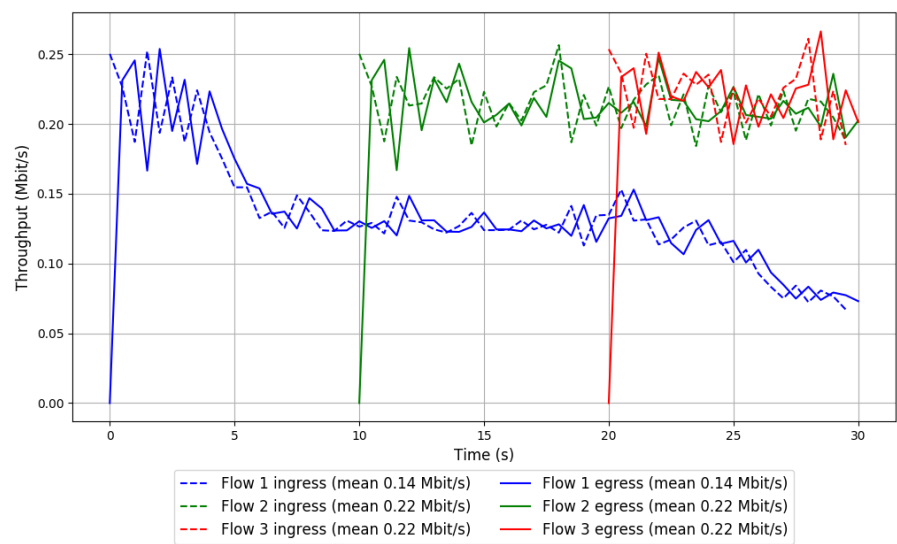


Run 6: Statistics of SReAM

Start at: 2018-06-05 13:22:38
End at: 2018-06-05 13:23:08
Local clock offset: -0.016 ms
Remote clock offset: -2.275 ms

Below is generated by plot.py at 2018-06-05 15:18:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 28.481 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 28.511 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.861 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.868 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

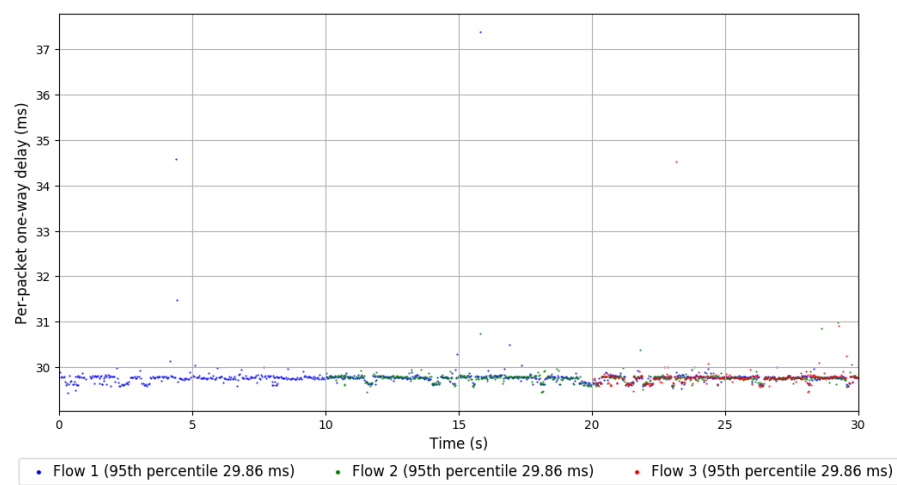
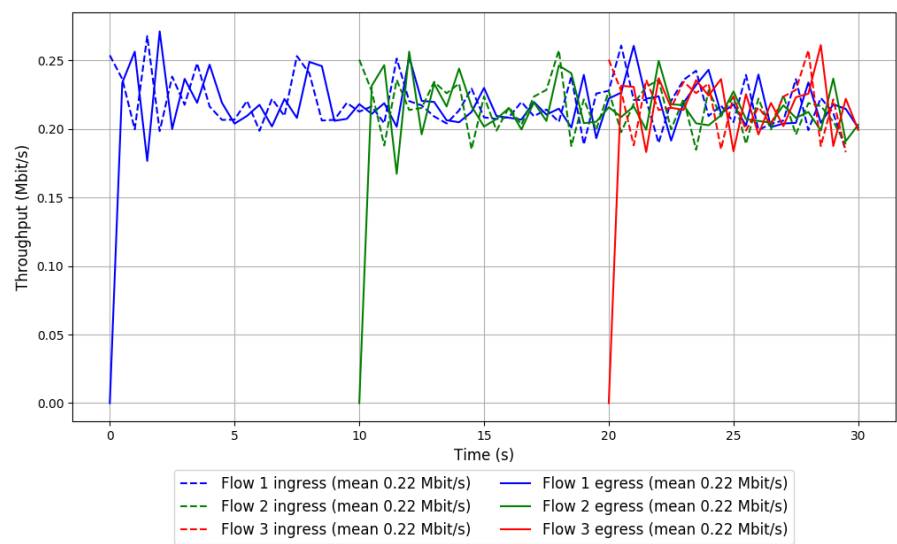


Run 7: Statistics of SReAM

Start at: 2018-06-05 13:44:04
End at: 2018-06-05 13:44:35
Local clock offset: 0.026 ms
Remote clock offset: -0.141 ms

Below is generated by plot.py at 2018-06-05 15:18:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 29.862 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.864 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.856 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.862 ms
Loss rate: 0.00%

Run 7: Report of SCReAM — Data Link

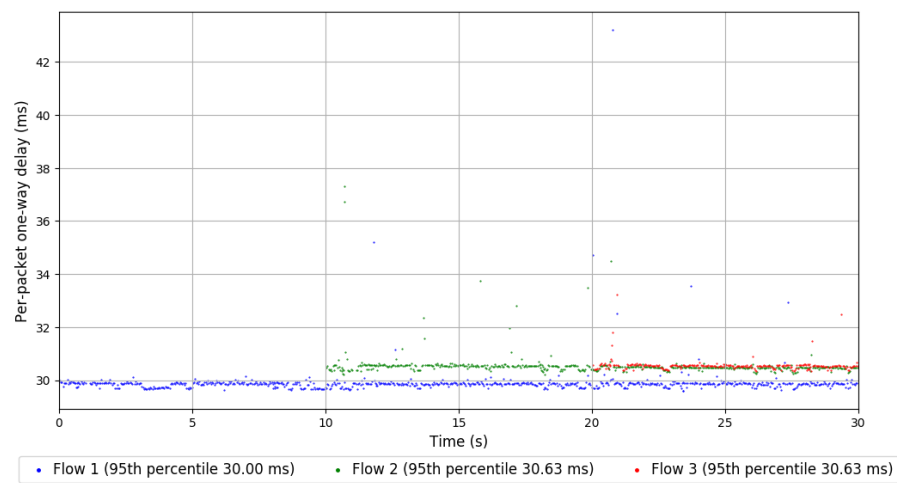
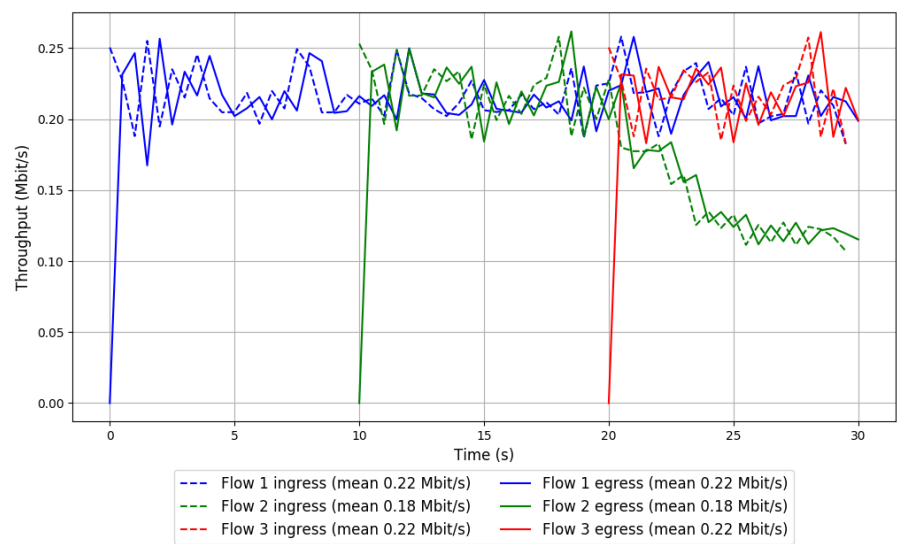


Run 8: Statistics of SCReAM

Start at: 2018-06-05 14:05:33
End at: 2018-06-05 14:06:03
Local clock offset: -0.105 ms
Remote clock offset: -0.398 ms

Below is generated by plot.py at 2018-06-05 15:18:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 30.589 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.005 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 30.627 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.628 ms
Loss rate: 0.00%

Run 8: Report of SCRaM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-06-05 14:27:17

End at: 2018-06-05 14:27:47

Local clock offset: -0.112 ms

Remote clock offset: 0.445 ms

Below is generated by plot.py at 2018-06-05 15:18:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 30.985 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.521 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 31.006 ms

Loss rate: 0.22%

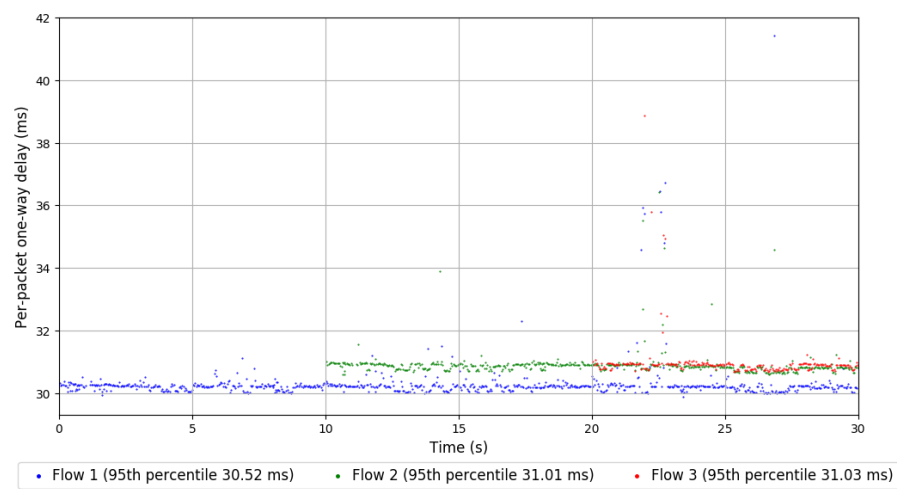
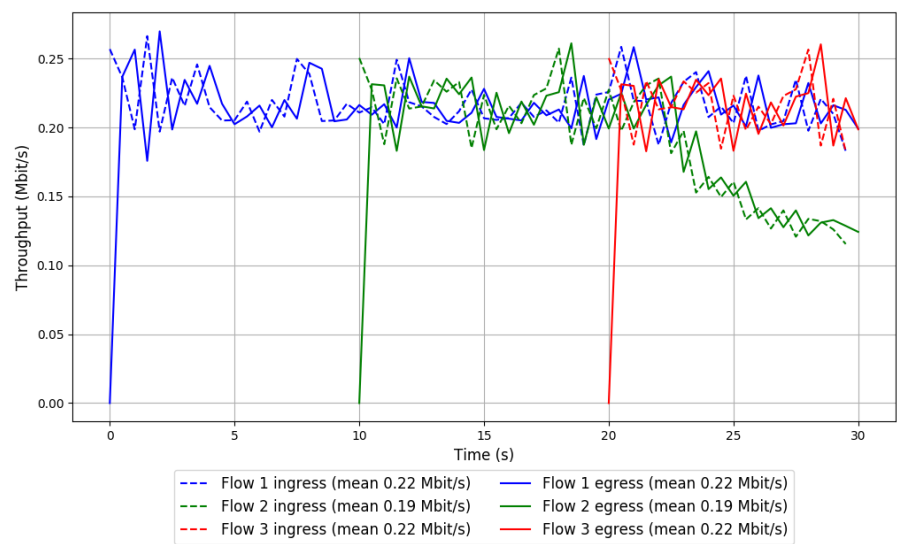
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 31.027 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-05 14:48:47

End at: 2018-06-05 14:49:17

Local clock offset: -0.149 ms

Remote clock offset: -1.42 ms

Below is generated by plot.py at 2018-06-05 15:18:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 28.534 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 27.958 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.555 ms

Loss rate: 0.00%

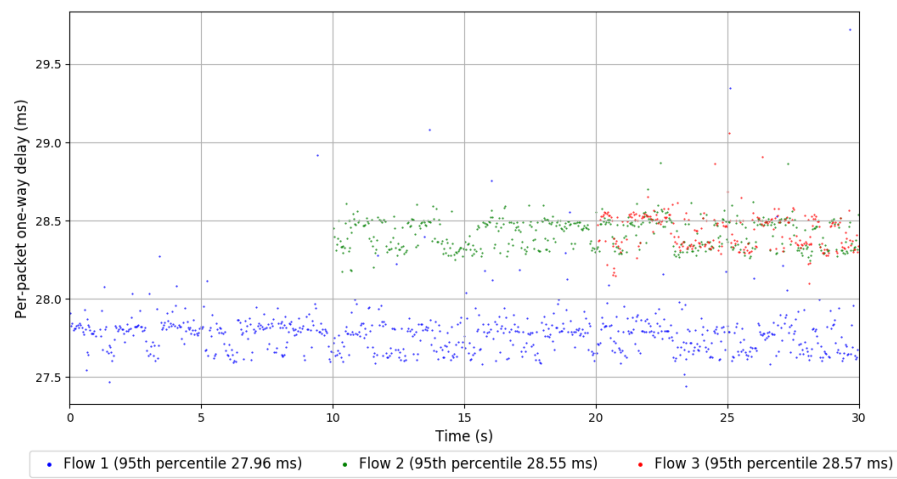
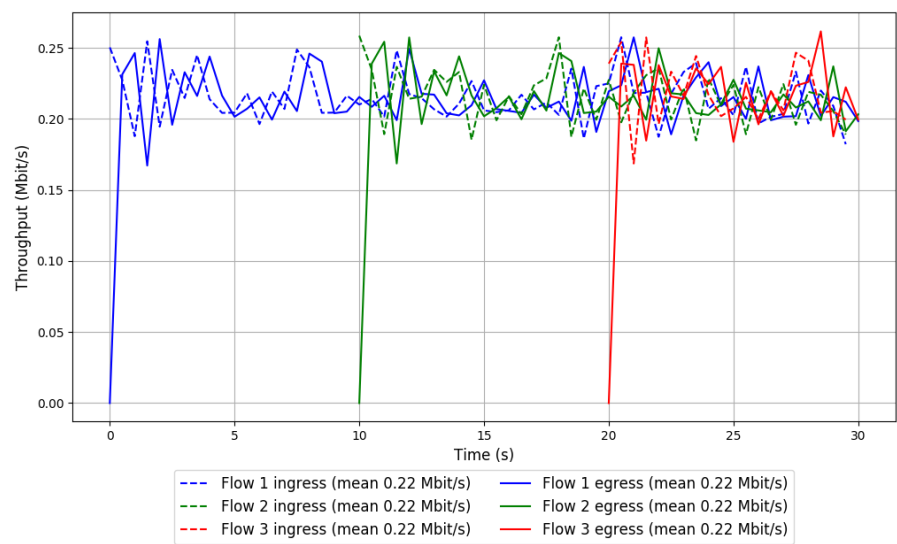
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-05 11:36:20

End at: 2018-06-05 11:36:50

Local clock offset: 0.061 ms

Remote clock offset: 0.386 ms

Below is generated by plot.py at 2018-06-05 15:18:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.16 Mbit/s

95th percentile per-packet one-way delay: 36.909 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.79 Mbit/s

95th percentile per-packet one-way delay: 36.469 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.52 Mbit/s

95th percentile per-packet one-way delay: 36.984 ms

Loss rate: 0.00%

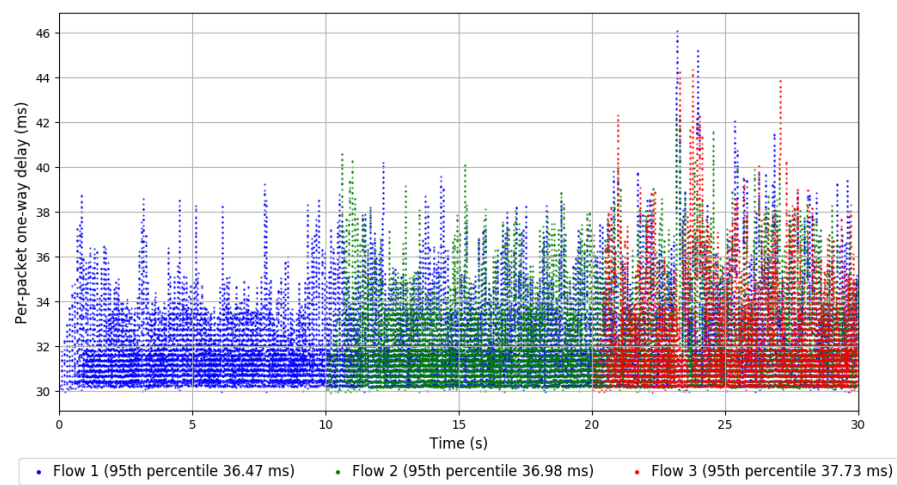
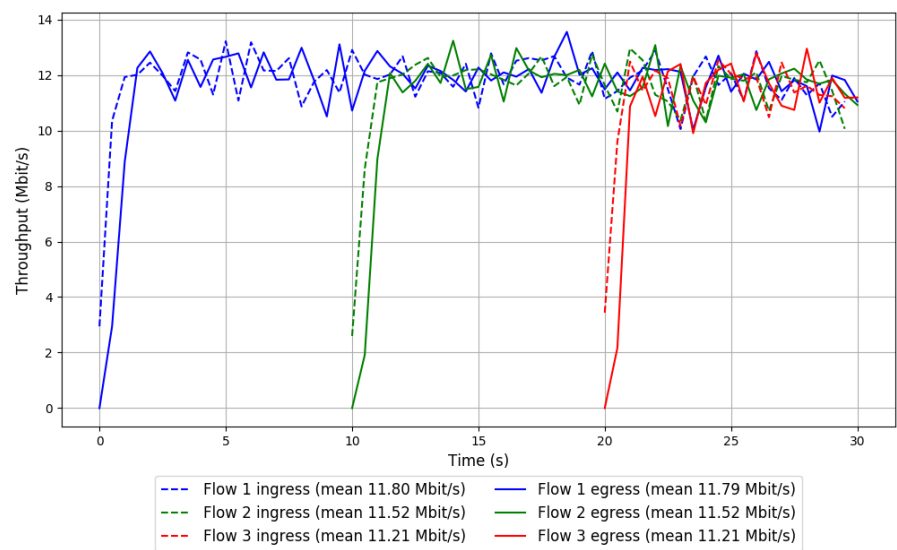
-- Flow 3:

Average throughput: 11.21 Mbit/s

95th percentile per-packet one-way delay: 37.727 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-05 11:57:47

End at: 2018-06-05 11:58:17

Local clock offset: 0.391 ms

Remote clock offset: 0.503 ms

Below is generated by plot.py at 2018-06-05 15:18:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 36.581 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 36.304 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.41 Mbit/s

95th percentile per-packet one-way delay: 36.377 ms

Loss rate: 0.00%

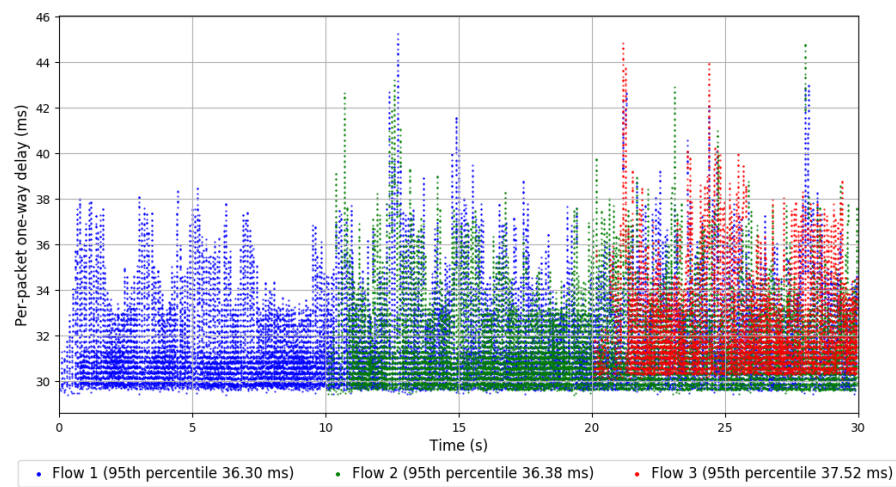
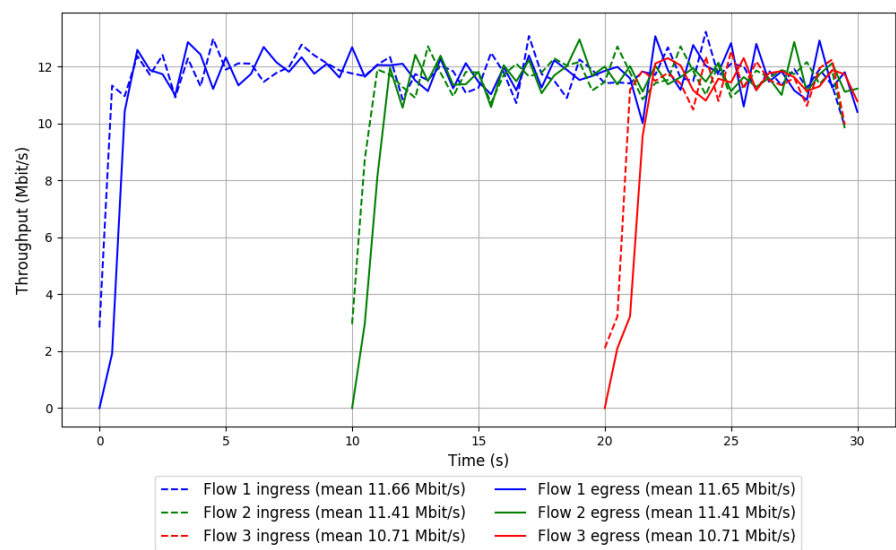
-- Flow 3:

Average throughput: 10.71 Mbit/s

95th percentile per-packet one-way delay: 37.516 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

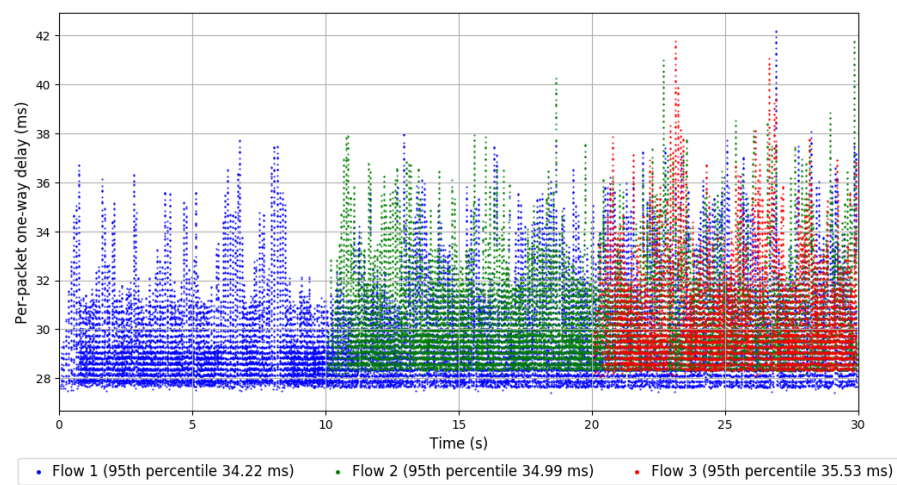
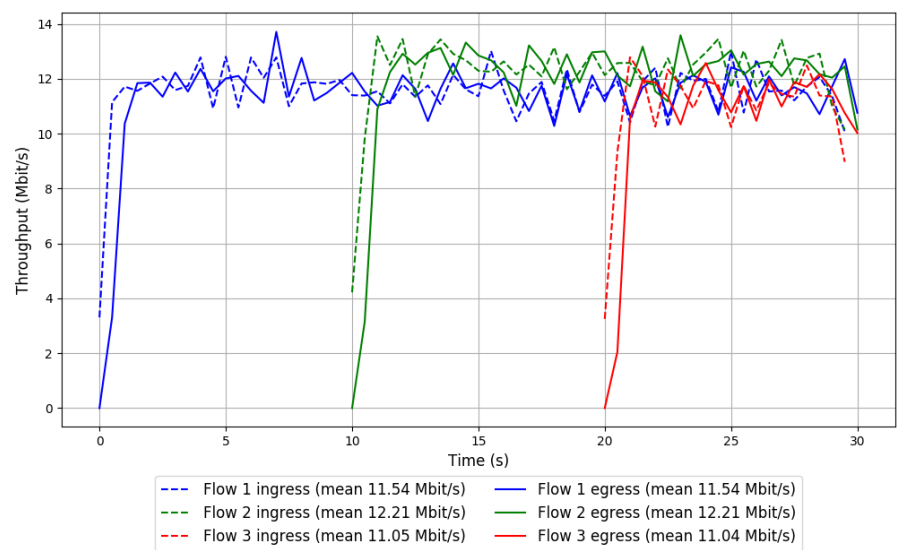


Run 3: Statistics of Sprout

Start at: 2018-06-05 12:19:18
End at: 2018-06-05 12:19:48
Local clock offset: -0.081 ms
Remote clock offset: -2.066 ms

```
# Below is generated by plot.py at 2018-06-05 15:18:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.30 Mbit/s
95th percentile per-packet one-way delay: 34.679 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 34.219 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.21 Mbit/s
95th percentile per-packet one-way delay: 34.989 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.04 Mbit/s
95th percentile per-packet one-way delay: 35.534 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

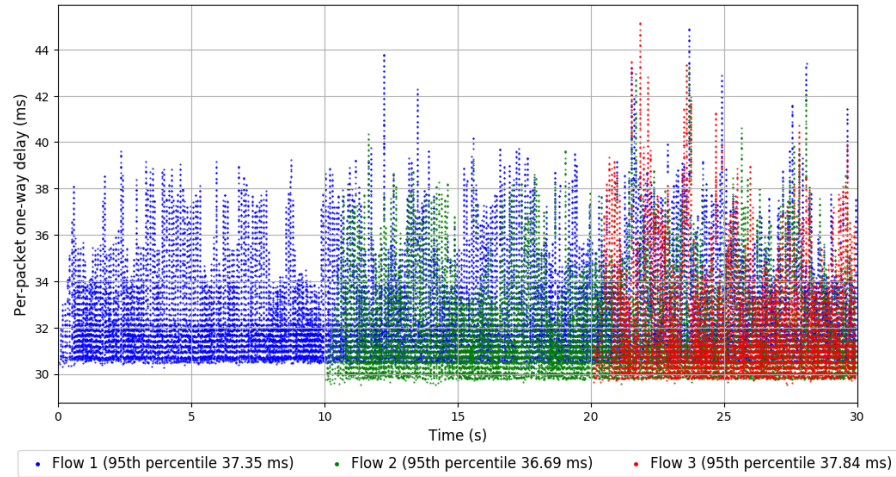
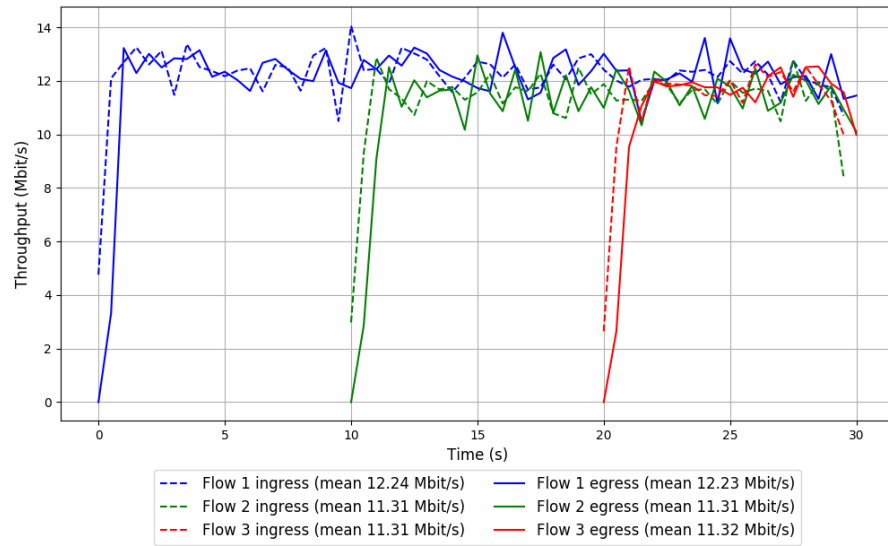


Run 4: Statistics of Sprout

Start at: 2018-06-05 12:40:52
End at: 2018-06-05 12:41:22
Local clock offset: 0.018 ms
Remote clock offset: 0.052 ms

```
# Below is generated by plot.py at 2018-06-05 15:18:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 37.231 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.23 Mbit/s
95th percentile per-packet one-way delay: 37.354 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.31 Mbit/s
95th percentile per-packet one-way delay: 36.686 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.32 Mbit/s
95th percentile per-packet one-way delay: 37.837 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

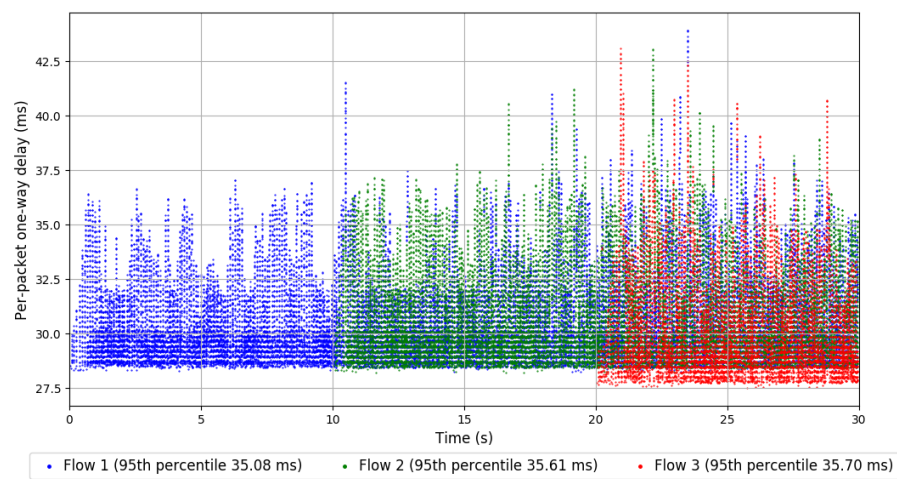
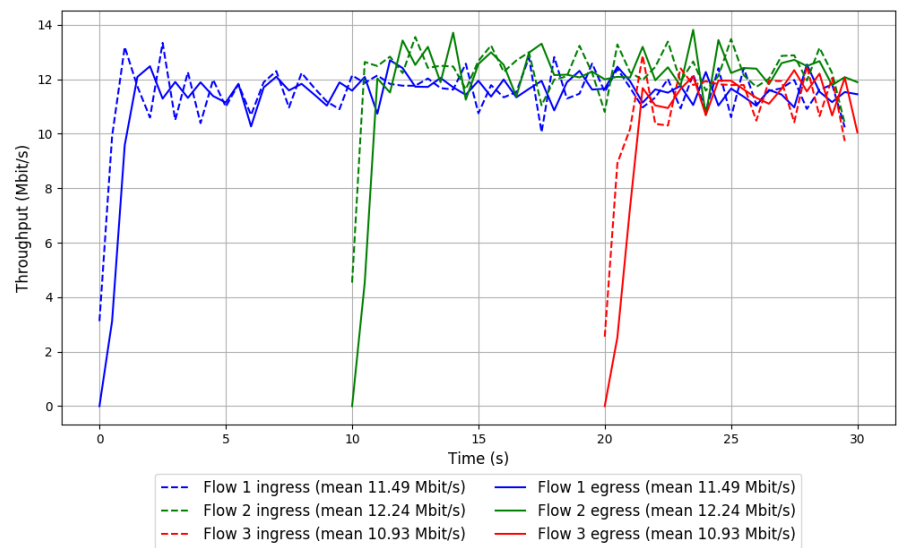


Run 5: Statistics of Sprout

Start at: 2018-06-05 13:02:23
End at: 2018-06-05 13:02:53
Local clock offset: 0.197 ms
Remote clock offset: -2.074 ms

```
# Below is generated by plot.py at 2018-06-05 15:18:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.24 Mbit/s
95th percentile per-packet one-way delay: 35.367 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 35.079 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.24 Mbit/s
95th percentile per-packet one-way delay: 35.606 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.93 Mbit/s
95th percentile per-packet one-way delay: 35.696 ms
Loss rate: 0.00%
```


Run 5: Report of Sprout — Data Link

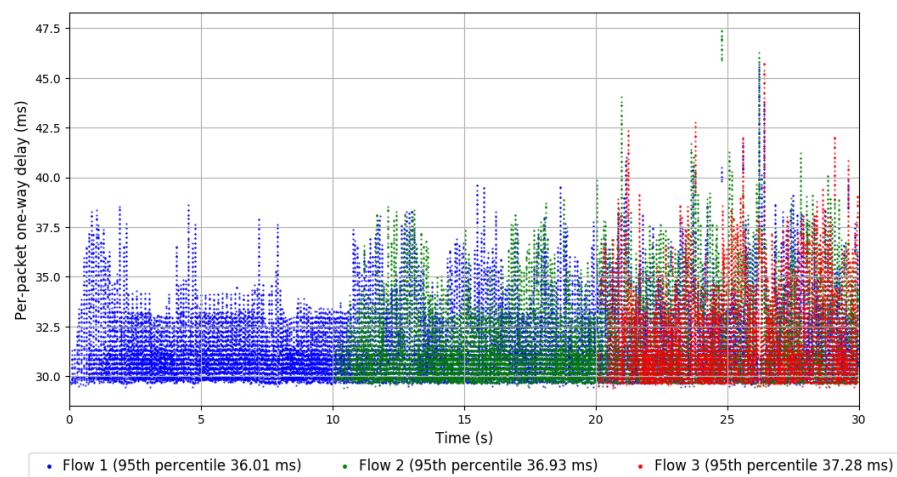
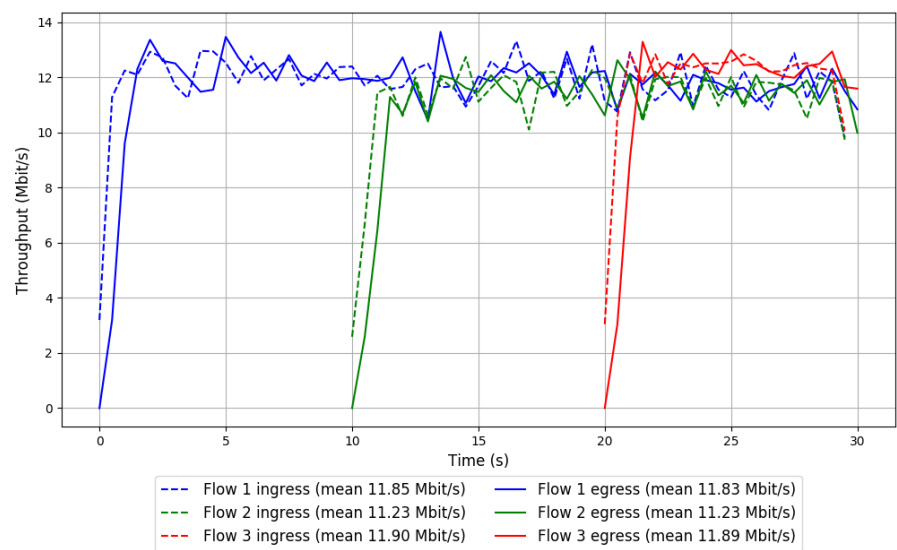


Run 6: Statistics of Sprout

Start at: 2018-06-05 13:23:54
End at: 2018-06-05 13:24:24
Local clock offset: 0.066 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2018-06-05 15:18:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 36.606 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 11.83 Mbit/s
95th percentile per-packet one-way delay: 36.011 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 11.23 Mbit/s
95th percentile per-packet one-way delay: 36.930 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 37.278 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

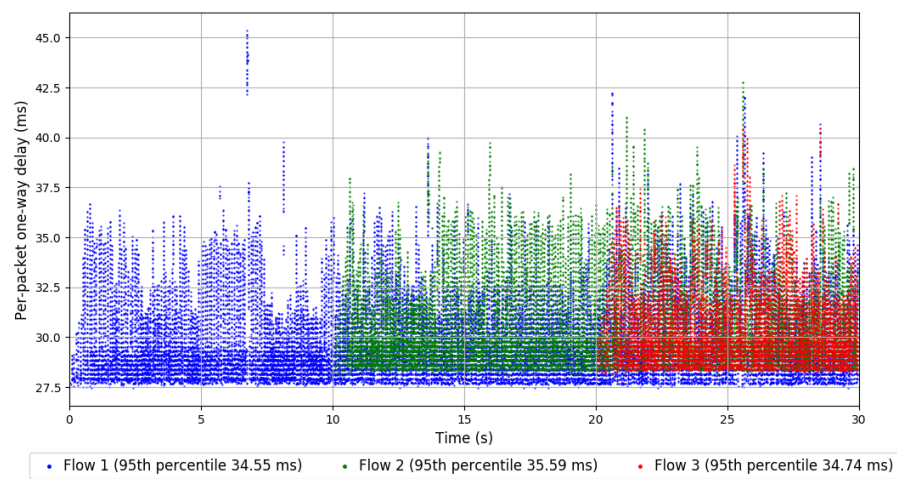
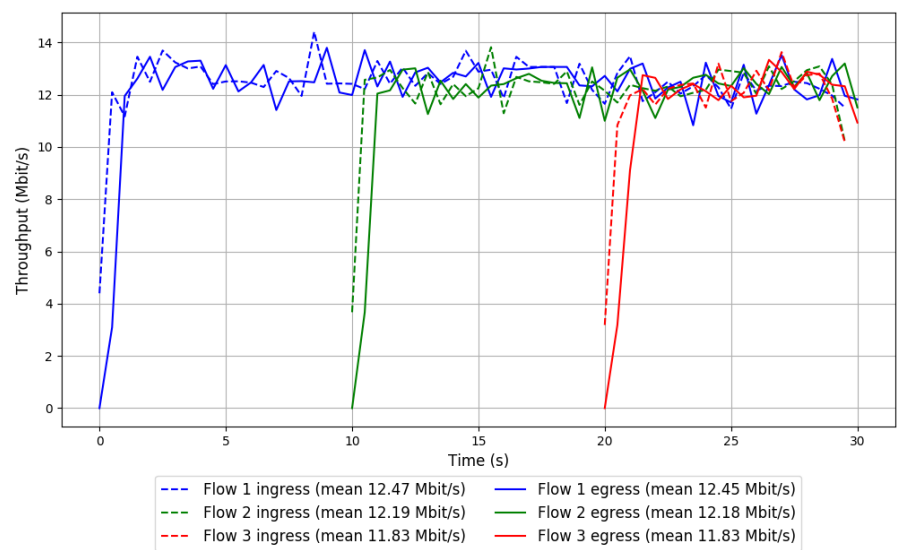


Run 7: Statistics of Sprout

Start at: 2018-06-05 13:45:21
End at: 2018-06-05 13:45:51
Local clock offset: 0.019 ms
Remote clock offset: -2.137 ms

Below is generated by plot.py at 2018-06-05 15:18:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.46 Mbit/s
95th percentile per-packet one-way delay: 35.058 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 34.554 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 12.18 Mbit/s
95th percentile per-packet one-way delay: 35.590 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 11.83 Mbit/s
95th percentile per-packet one-way delay: 34.741 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

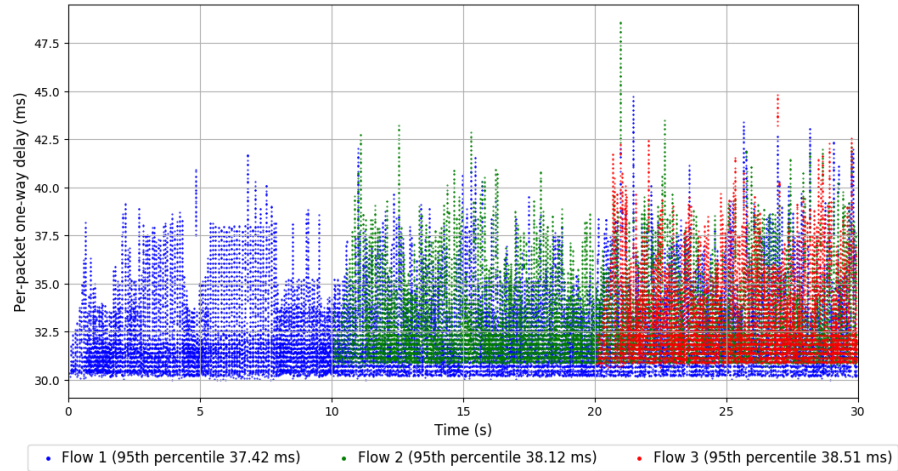
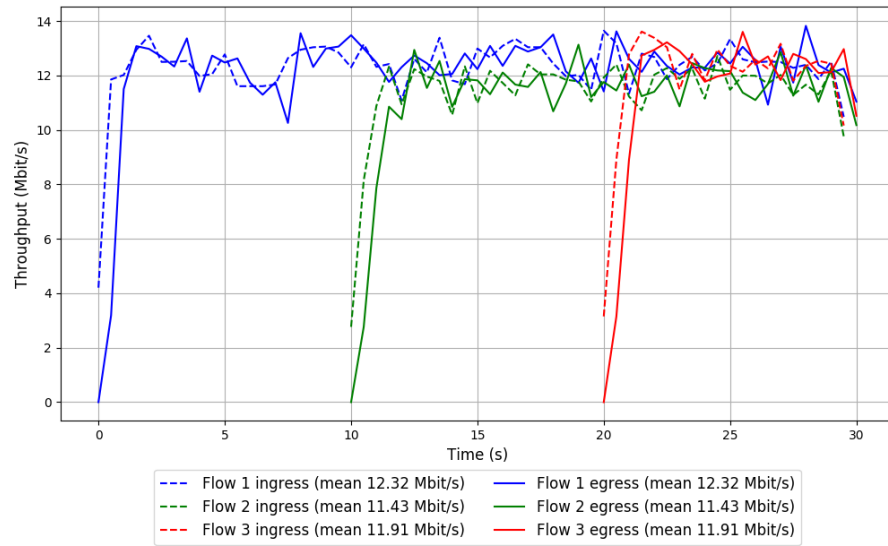


Run 8: Statistics of Sprout

Start at: 2018-06-05 14:06:49
End at: 2018-06-05 14:07:19
Local clock offset: -0.112 ms
Remote clock offset: 0.087 ms

```
# Below is generated by plot.py at 2018-06-05 15:18:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.86 Mbit/s
95th percentile per-packet one-way delay: 37.858 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.32 Mbit/s
95th percentile per-packet one-way delay: 37.417 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.43 Mbit/s
95th percentile per-packet one-way delay: 38.121 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 38.505 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

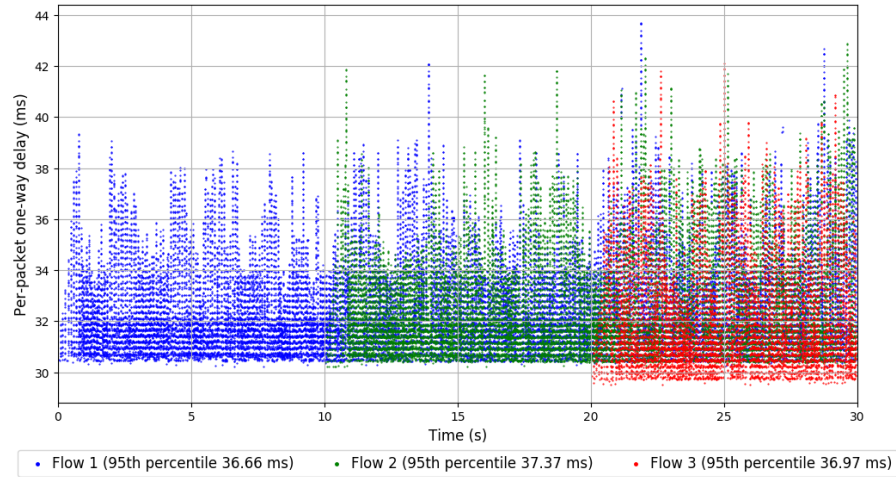
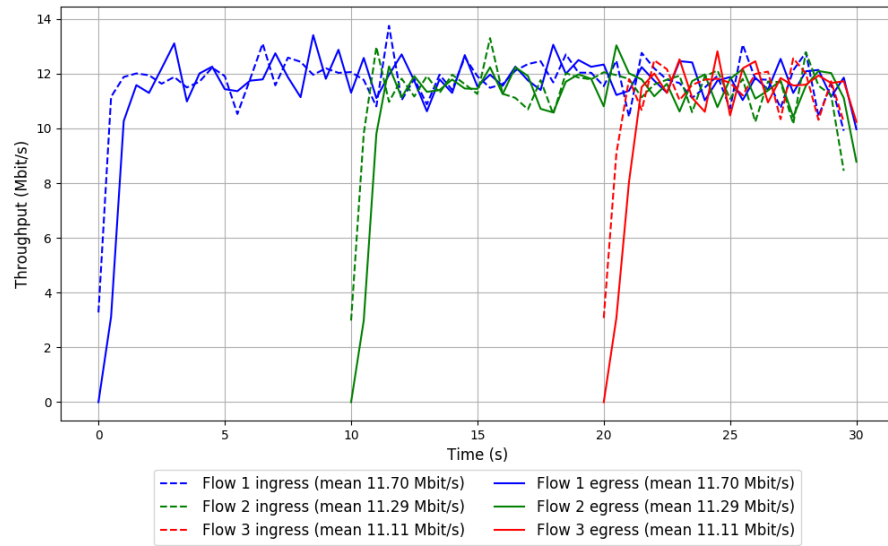


Run 9: Statistics of Sprout

Start at: 2018-06-05 14:28:34
End at: 2018-06-05 14:29:04
Local clock offset: -0.114 ms
Remote clock offset: 0.192 ms

Below is generated by plot.py at 2018-06-05 15:18:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.88 Mbit/s
95th percentile per-packet one-way delay: 36.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 36.662 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.29 Mbit/s
95th percentile per-packet one-way delay: 37.366 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.11 Mbit/s
95th percentile per-packet one-way delay: 36.968 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

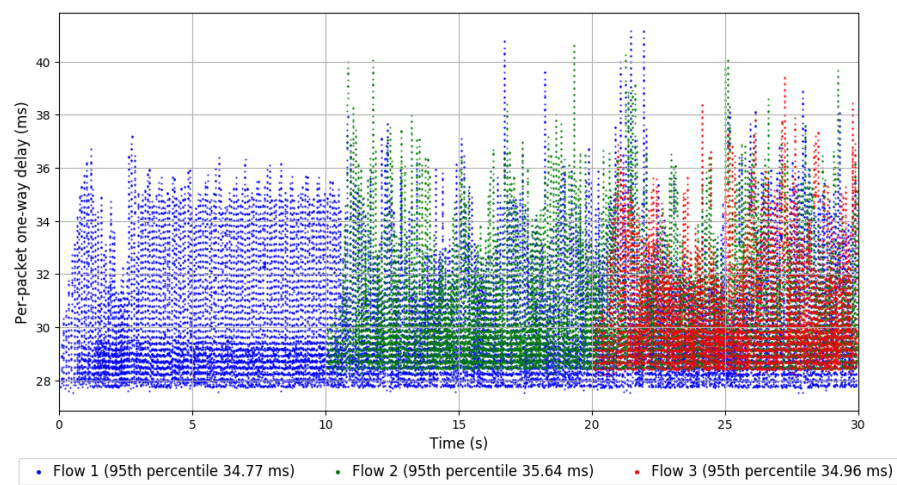
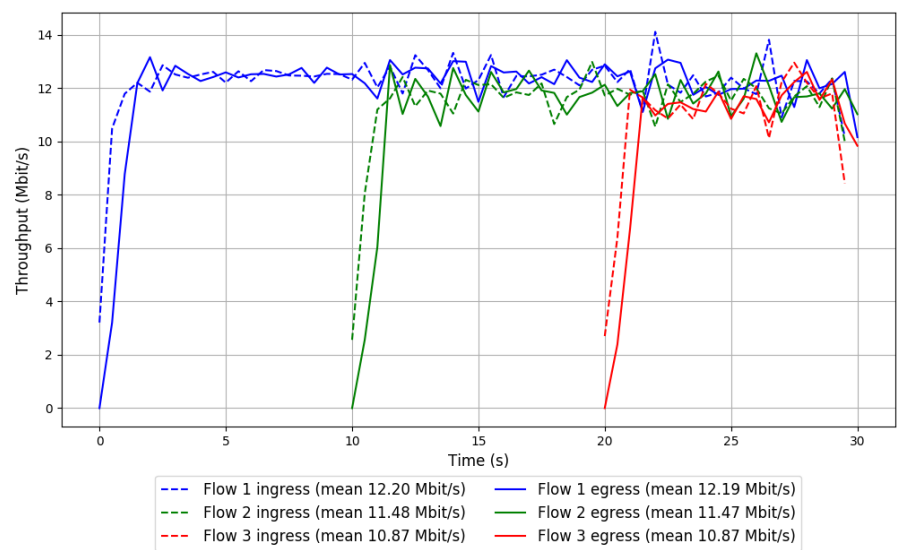


Run 10: Statistics of Sprout

Start at: 2018-06-05 14:50:04
End at: 2018-06-05 14:50:34
Local clock offset: -0.176 ms
Remote clock offset: -1.339 ms

Below is generated by plot.py at 2018-06-05 15:18:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 35.087 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 34.773 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.47 Mbit/s
95th percentile per-packet one-way delay: 35.637 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.87 Mbit/s
95th percentile per-packet one-way delay: 34.963 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

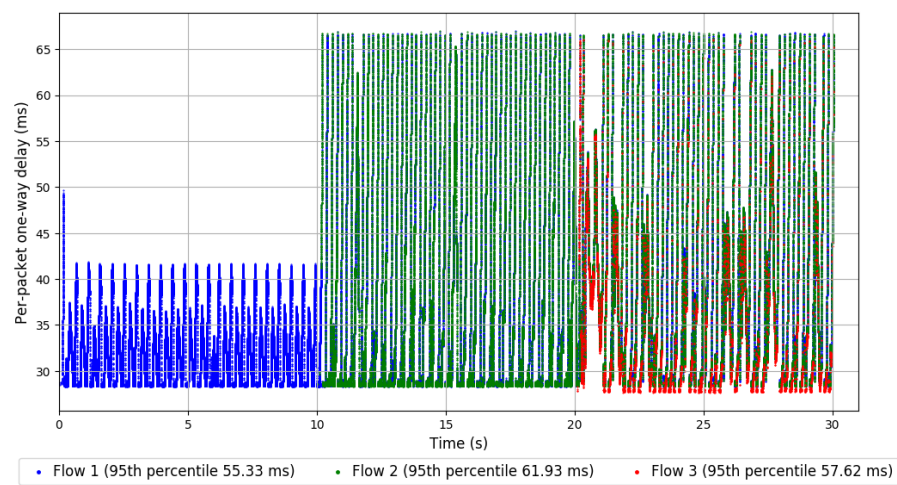
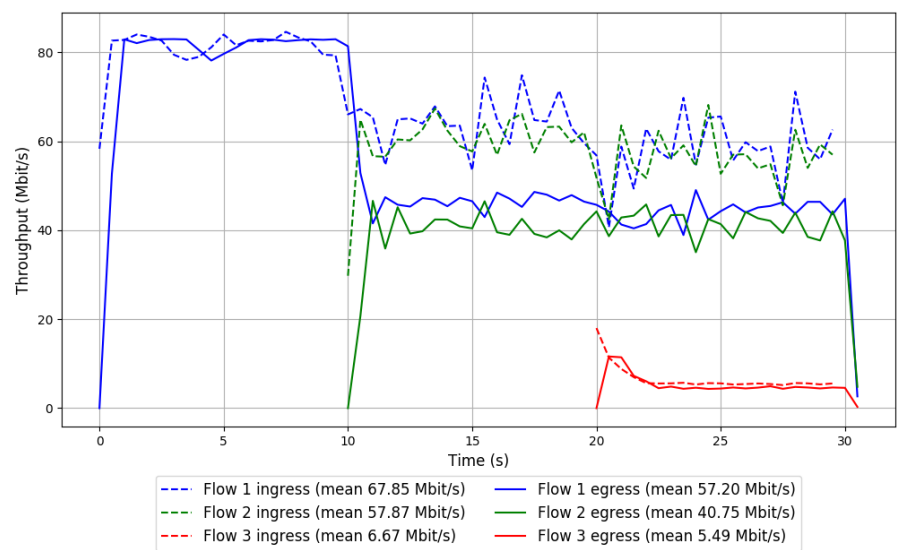


Run 1: Statistics of TaoVA-100x

Start at: 2018-06-05 11:30:56
End at: 2018-06-05 11:31:26
Local clock offset: 0.011 ms
Remote clock offset: -2.294 ms

Below is generated by plot.py at 2018-06-05 15:20:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.18 Mbit/s
95th percentile per-packet one-way delay: 58.706 ms
Loss rate: 20.60%
-- Flow 1:
Average throughput: 57.20 Mbit/s
95th percentile per-packet one-way delay: 55.333 ms
Loss rate: 15.63%
-- Flow 2:
Average throughput: 40.75 Mbit/s
95th percentile per-packet one-way delay: 61.929 ms
Loss rate: 29.51%
-- Flow 3:
Average throughput: 5.49 Mbit/s
95th percentile per-packet one-way delay: 57.622 ms
Loss rate: 17.61%

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

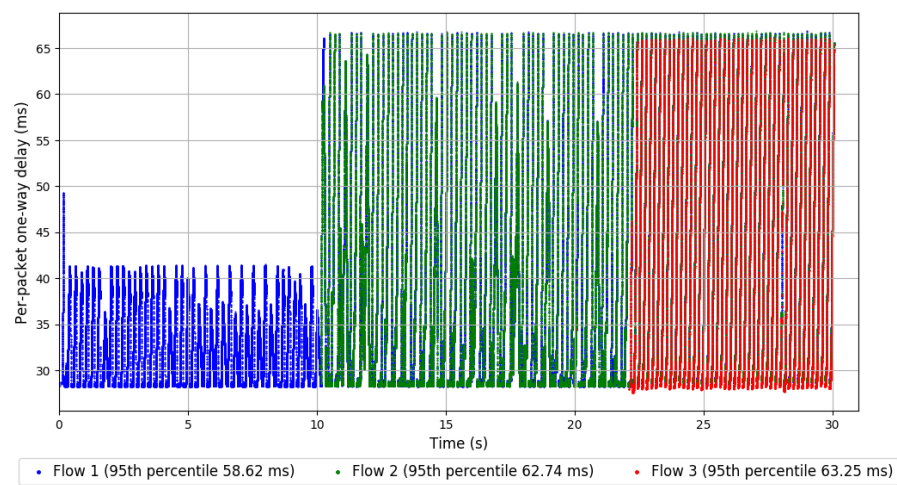
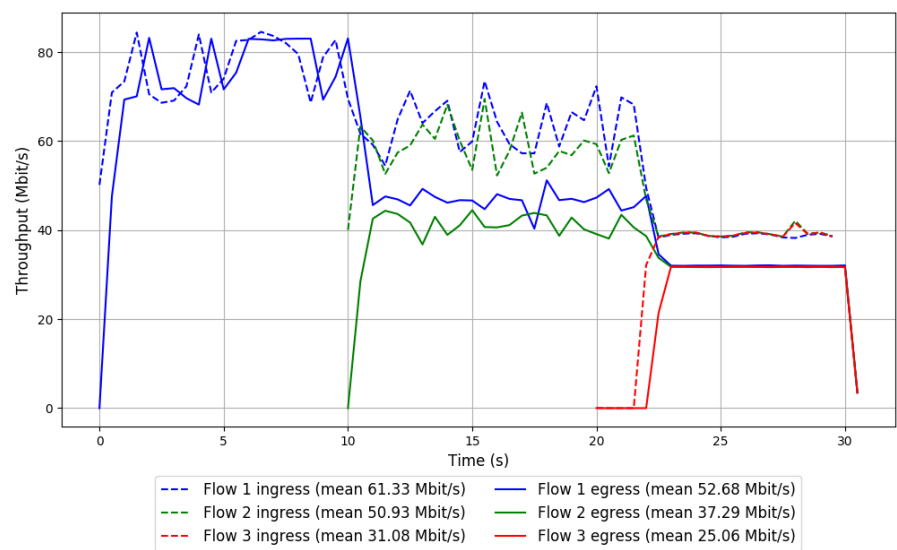


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-05 11:52:22
End at: 2018-06-05 11:52:52
Local clock offset: 0.365 ms
Remote clock offset: -1.652 ms

Below is generated by plot.py at 2018-06-05 15:20:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.88 Mbit/s
95th percentile per-packet one-way delay: 61.202 ms
Loss rate: 18.57%
-- Flow 1:
Average throughput: 52.68 Mbit/s
95th percentile per-packet one-way delay: 58.623 ms
Loss rate: 14.00%
-- Flow 2:
Average throughput: 37.29 Mbit/s
95th percentile per-packet one-way delay: 62.738 ms
Loss rate: 26.67%
-- Flow 3:
Average throughput: 25.06 Mbit/s
95th percentile per-packet one-way delay: 63.253 ms
Loss rate: 19.10%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-05 12:13:52

End at: 2018-06-05 12:14:22

Local clock offset: 0.075 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-06-05 15:20:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 63.378 ms

Loss rate: 18.18%

-- Flow 1:

Average throughput: 48.88 Mbit/s

95th percentile per-packet one-way delay: 61.099 ms

Loss rate: 14.71%

-- Flow 2:

Average throughput: 38.92 Mbit/s

95th percentile per-packet one-way delay: 64.026 ms

Loss rate: 24.21%

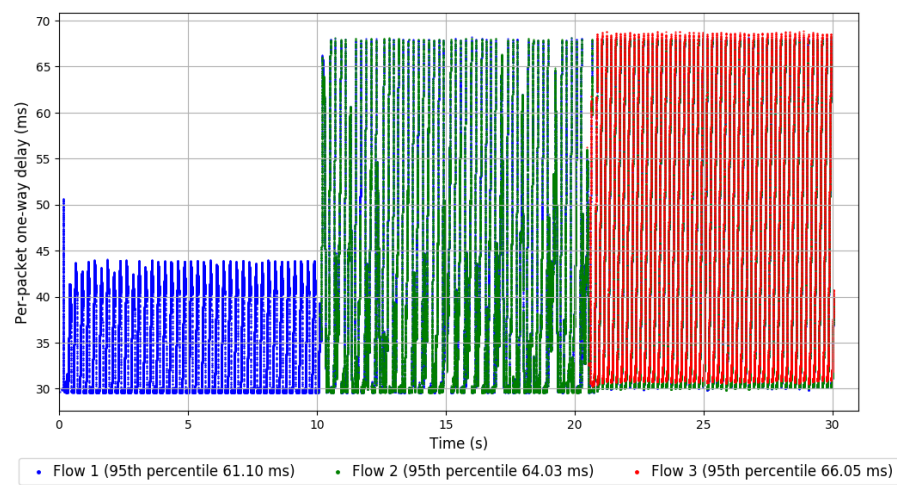
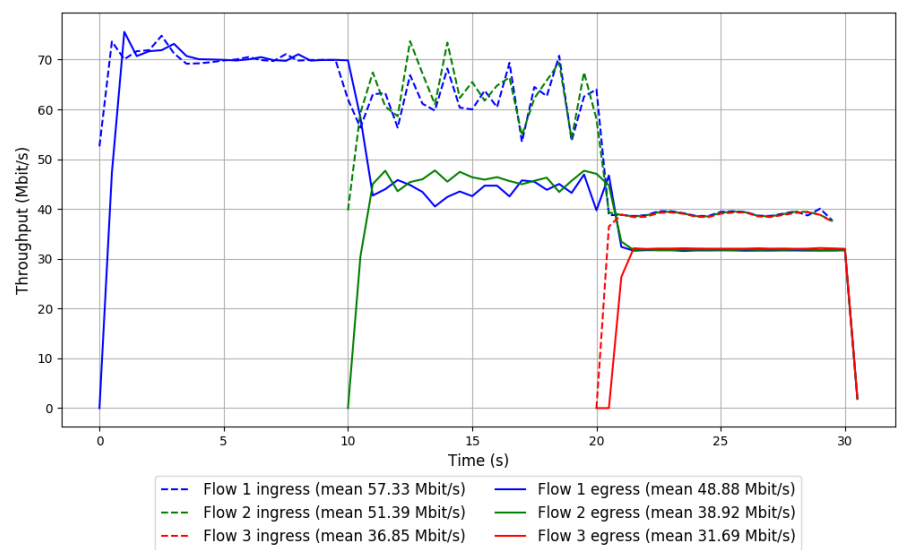
-- Flow 3:

Average throughput: 31.69 Mbit/s

95th percentile per-packet one-way delay: 66.054 ms

Loss rate: 17.60%

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

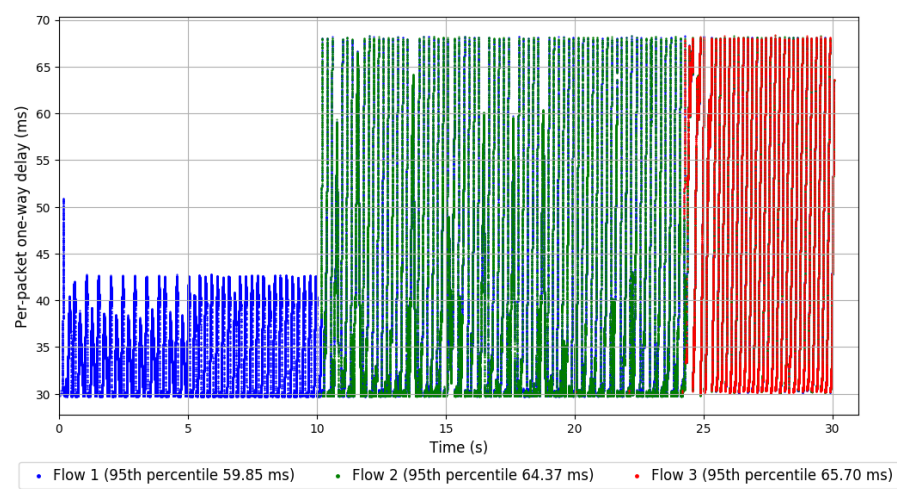
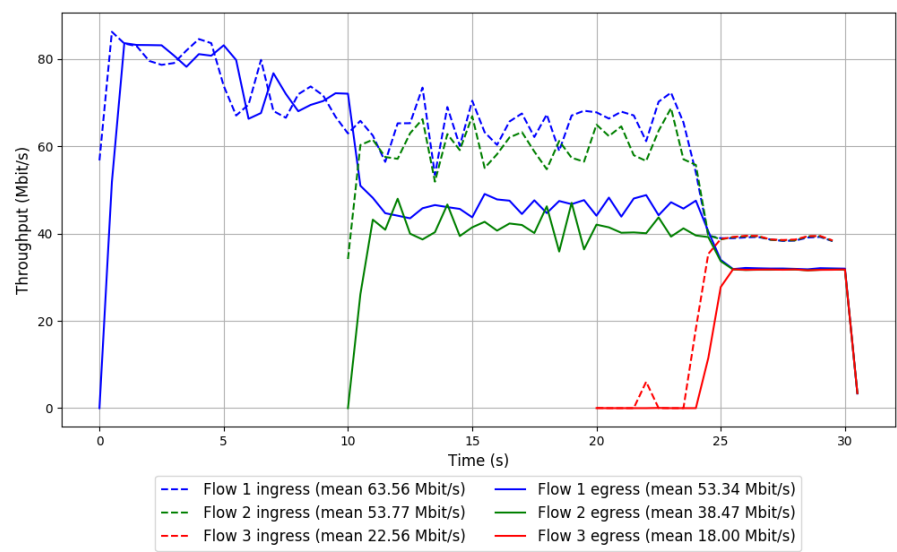


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-05 12:35:26
End at: 2018-06-05 12:35:56
Local clock offset: -0.162 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-05 15:20:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.98 Mbit/s
95th percentile per-packet one-way delay: 63.002 ms
Loss rate: 20.41%
-- Flow 1:
Average throughput: 53.34 Mbit/s
95th percentile per-packet one-way delay: 59.854 ms
Loss rate: 15.99%
-- Flow 2:
Average throughput: 38.47 Mbit/s
95th percentile per-packet one-way delay: 64.369 ms
Loss rate: 28.34%
-- Flow 3:
Average throughput: 18.00 Mbit/s
95th percentile per-packet one-way delay: 65.700 ms
Loss rate: 19.93%

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

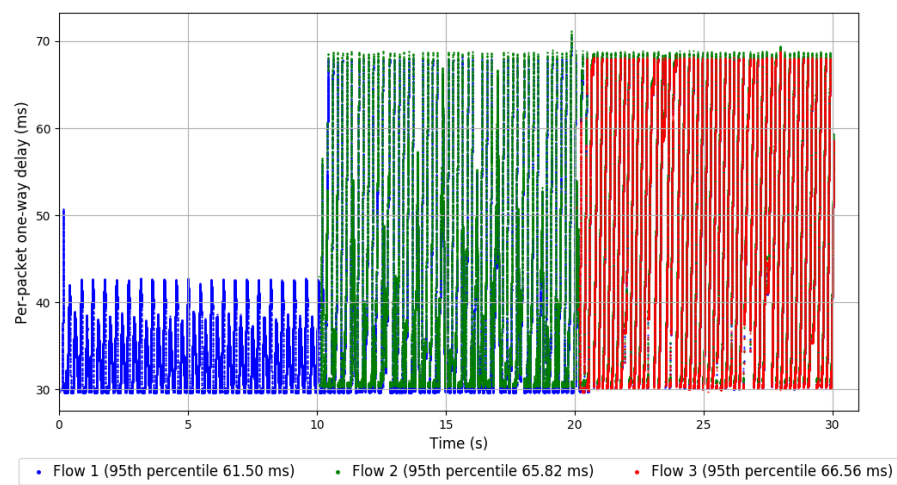
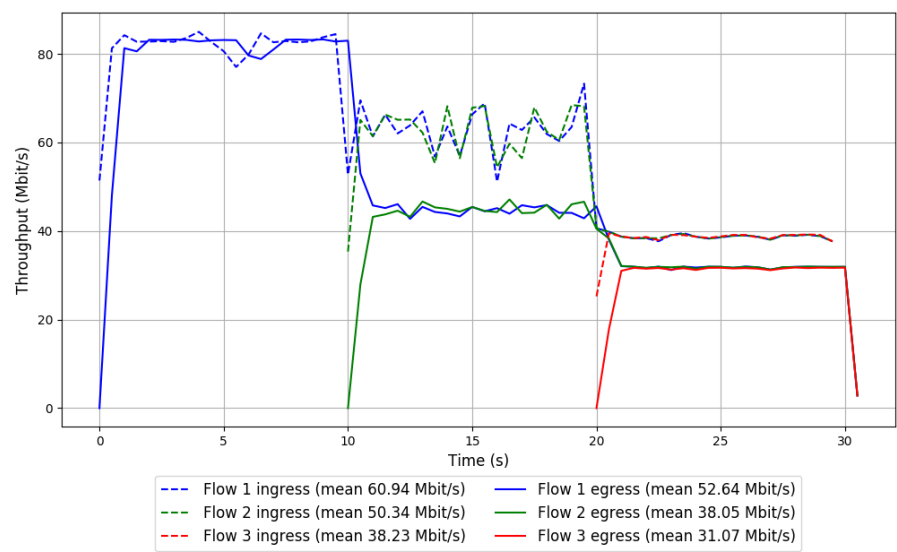


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-05 12:56:57
End at: 2018-06-05 12:57:27
Local clock offset: 0.284 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2018-06-05 15:20:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.31 Mbit/s
95th percentile per-packet one-way delay: 64.462 ms
Loss rate: 17.52%
-- Flow 1:
Average throughput: 52.64 Mbit/s
95th percentile per-packet one-way delay: 61.497 ms
Loss rate: 13.52%
-- Flow 2:
Average throughput: 38.05 Mbit/s
95th percentile per-packet one-way delay: 65.824 ms
Loss rate: 24.36%
-- Flow 3:
Average throughput: 31.07 Mbit/s
95th percentile per-packet one-way delay: 66.559 ms
Loss rate: 18.66%

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

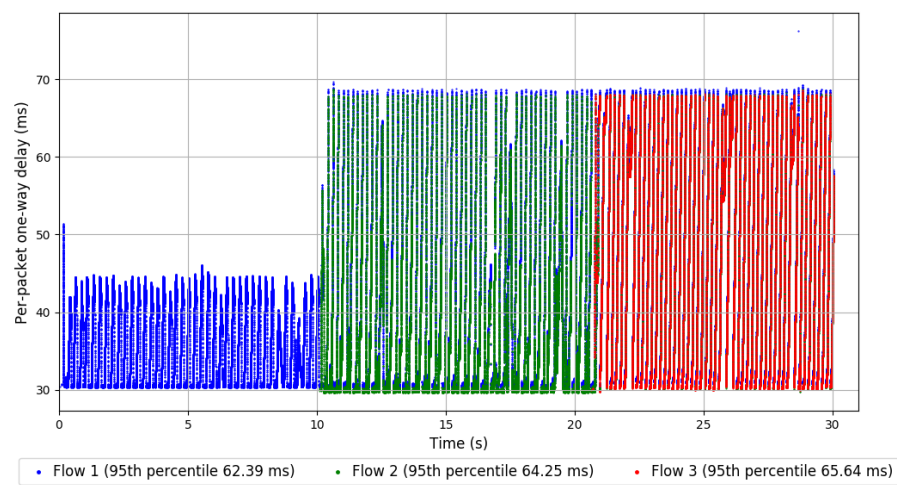
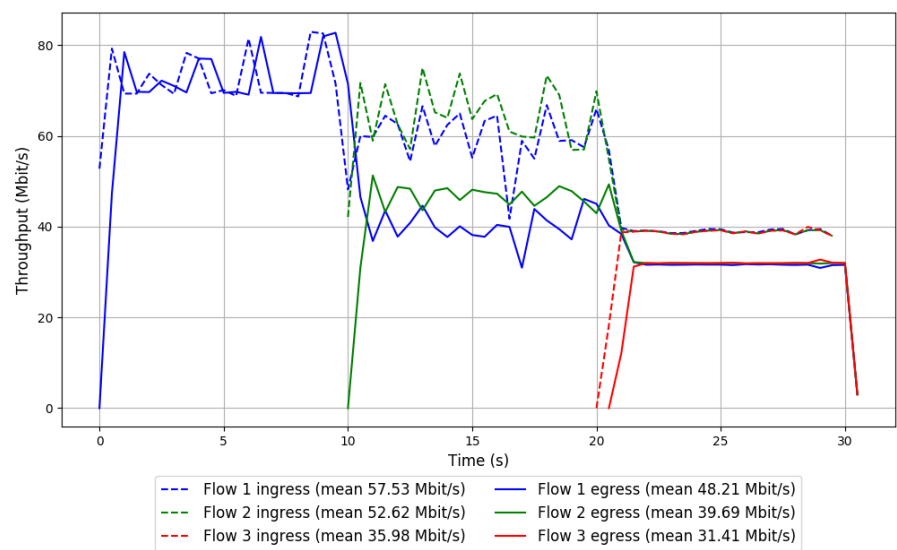


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-05 13:18:29
End at: 2018-06-05 13:18:59
Local clock offset: 0.074 ms
Remote clock offset: -0.142 ms

Below is generated by plot.py at 2018-06-05 15:20:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.47 Mbit/s
95th percentile per-packet one-way delay: 63.826 ms
Loss rate: 19.12%
-- Flow 1:
Average throughput: 48.21 Mbit/s
95th percentile per-packet one-way delay: 62.392 ms
Loss rate: 16.12%
-- Flow 2:
Average throughput: 39.69 Mbit/s
95th percentile per-packet one-way delay: 64.248 ms
Loss rate: 24.52%
-- Flow 3:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 65.637 ms
Loss rate: 17.72%

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

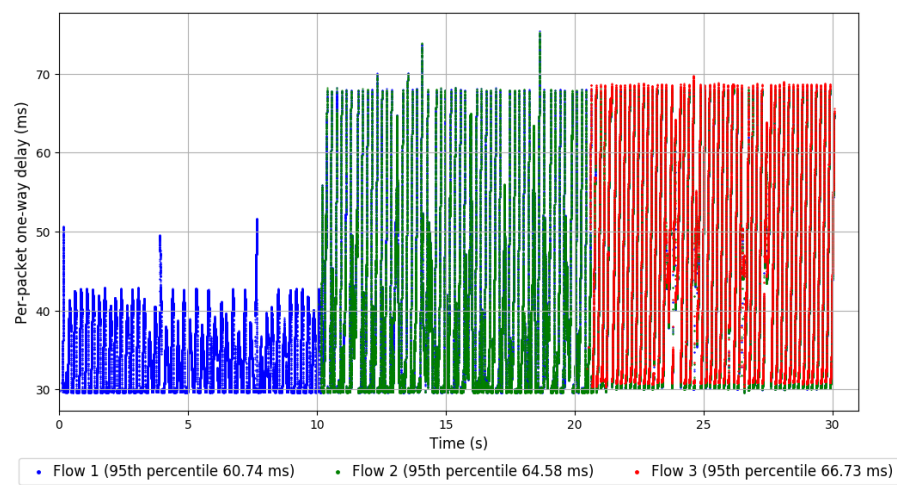
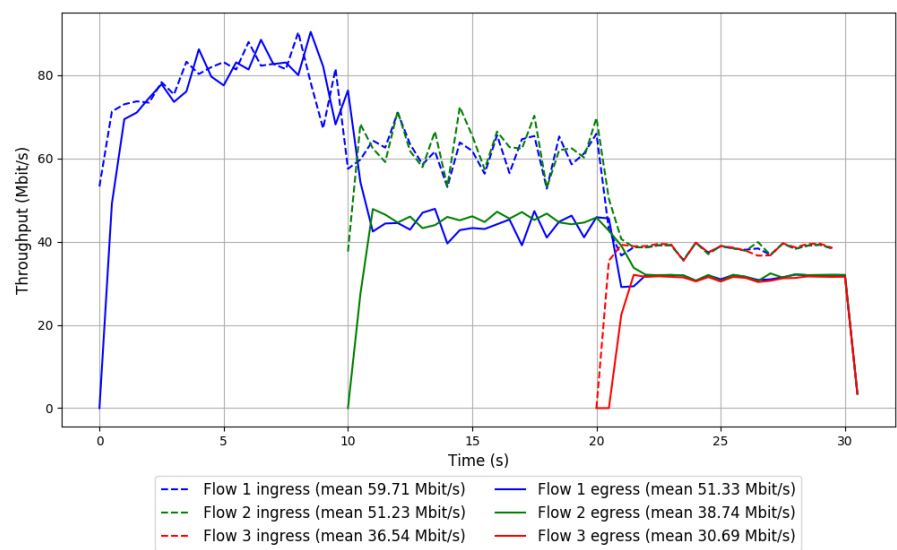


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-05 13:39:57
End at: 2018-06-05 13:40:27
Local clock offset: 0.041 ms
Remote clock offset: -0.164 ms

Below is generated by plot.py at 2018-06-05 15:20:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.94 Mbit/s
95th percentile per-packet one-way delay: 63.634 ms
Loss rate: 17.86%
-- Flow 1:
Average throughput: 51.33 Mbit/s
95th percentile per-packet one-way delay: 60.744 ms
Loss rate: 13.94%
-- Flow 2:
Average throughput: 38.74 Mbit/s
95th percentile per-packet one-way delay: 64.584 ms
Loss rate: 24.28%
-- Flow 3:
Average throughput: 30.69 Mbit/s
95th percentile per-packet one-way delay: 66.728 ms
Loss rate: 19.12%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-05 14:01:24

End at: 2018-06-05 14:01:54

Local clock offset: 0.014 ms

Remote clock offset: 0.212 ms

Below is generated by plot.py at 2018-06-05 15:20:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.40 Mbit/s

95th percentile per-packet one-way delay: 64.234 ms

Loss rate: 18.33%

-- Flow 1:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 61.828 ms

Loss rate: 14.88%

-- Flow 2:

Average throughput: 38.68 Mbit/s

95th percentile per-packet one-way delay: 65.459 ms

Loss rate: 24.09%

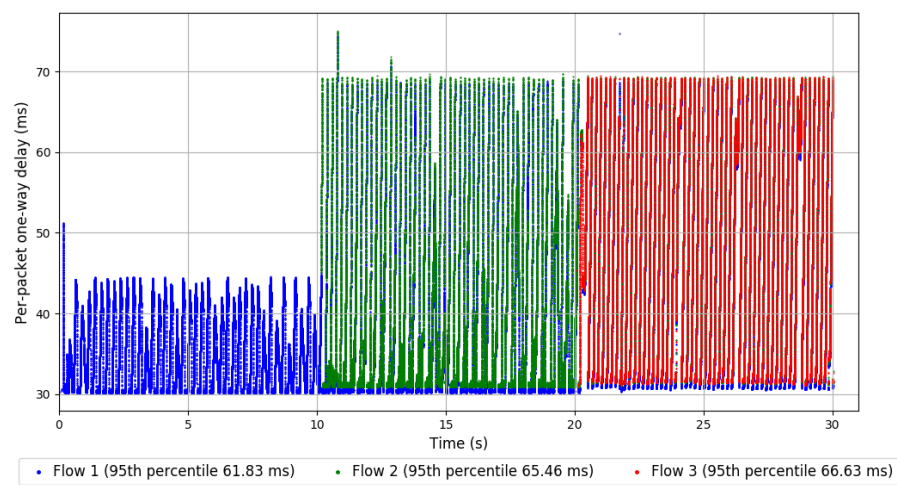
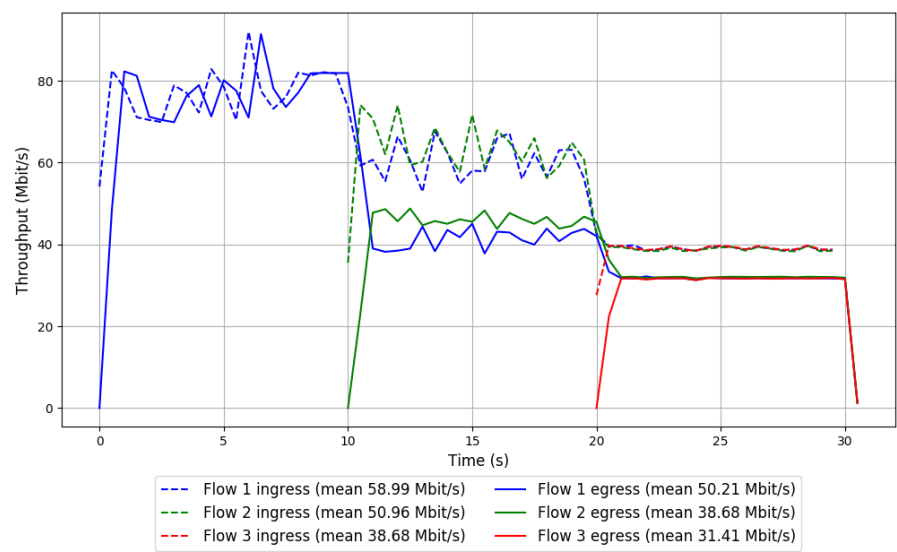
-- Flow 3:

Average throughput: 31.41 Mbit/s

95th percentile per-packet one-way delay: 66.632 ms

Loss rate: 18.90%

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

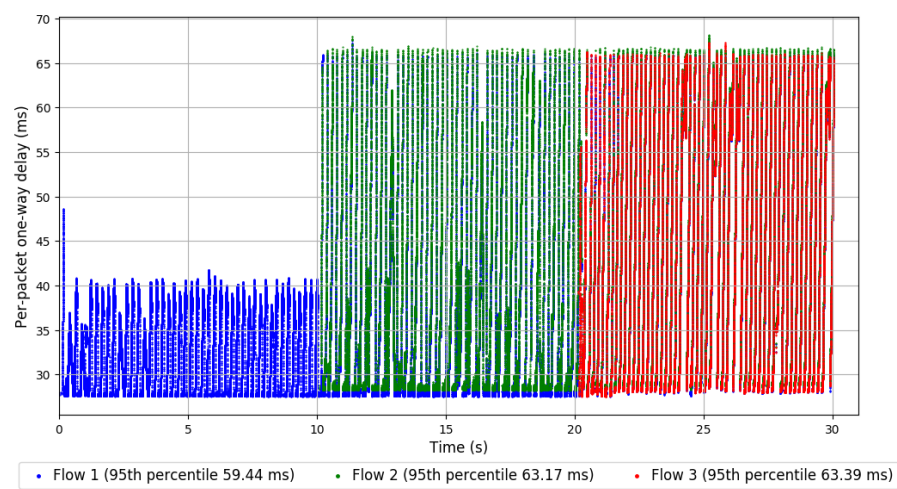
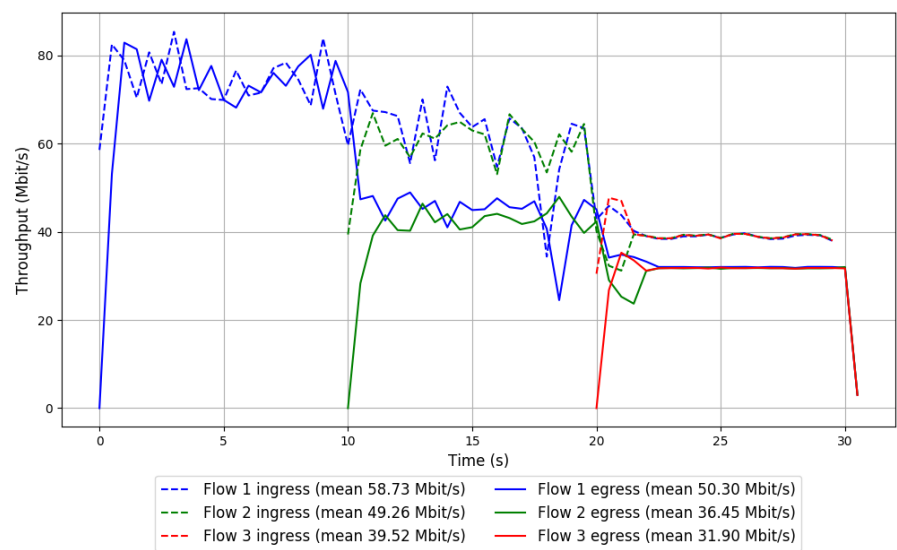


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-05 14:23:09
End at: 2018-06-05 14:23:39
Local clock offset: -0.191 ms
Remote clock offset: -2.511 ms

Below is generated by plot.py at 2018-06-05 15:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.21 Mbit/s
95th percentile per-packet one-way delay: 61.902 ms
Loss rate: 18.52%
-- Flow 1:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 59.440 ms
Loss rate: 14.27%
-- Flow 2:
Average throughput: 36.45 Mbit/s
95th percentile per-packet one-way delay: 63.172 ms
Loss rate: 25.91%
-- Flow 3:
Average throughput: 31.90 Mbit/s
95th percentile per-packet one-way delay: 63.389 ms
Loss rate: 19.07%

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

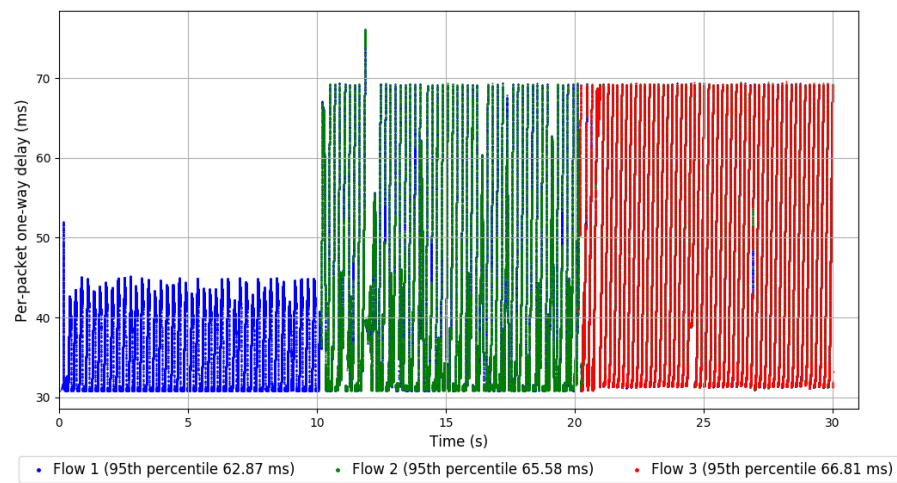
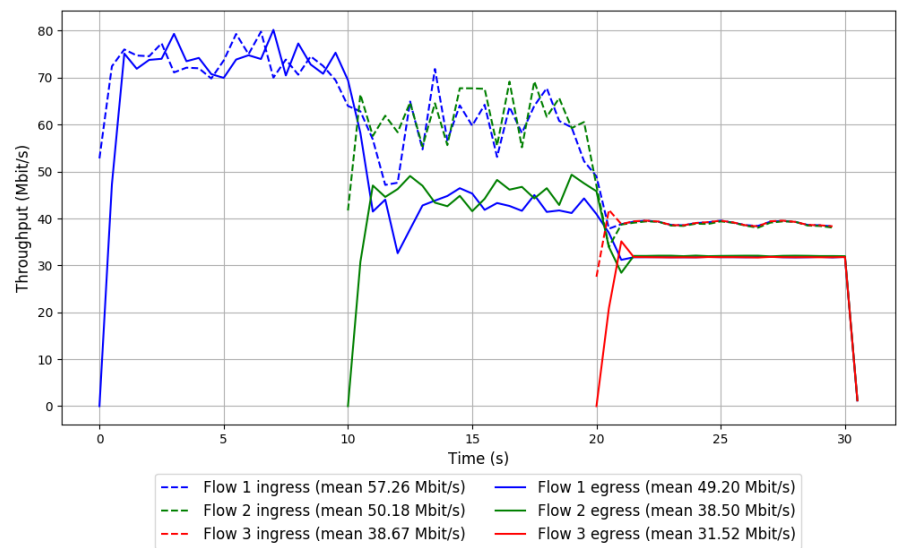


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-05 14:44:38
End at: 2018-06-05 14:45:08
Local clock offset: -0.063 ms
Remote clock offset: 1.104 ms

# Below is generated by plot.py at 2018-06-05 15:22:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.32 Mbit/s
95th percentile per-packet one-way delay: 64.870 ms
Loss rate: 17.59%
-- Flow 1:
Average throughput: 49.20 Mbit/s
95th percentile per-packet one-way delay: 62.869 ms
Loss rate: 14.07%
-- Flow 2:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 65.581 ms
Loss rate: 23.28%
-- Flow 3:
Average throughput: 31.52 Mbit/s
95th percentile per-packet one-way delay: 66.806 ms
Loss rate: 18.49%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-05 11:37:37

End at: 2018-06-05 11:38:07

Local clock offset: 0.101 ms

Remote clock offset: 0.415 ms

Below is generated by plot.py at 2018-06-05 15:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.55 Mbit/s

95th percentile per-packet one-way delay: 46.315 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 72.80 Mbit/s

95th percentile per-packet one-way delay: 46.798 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 21.23 Mbit/s

95th percentile per-packet one-way delay: 38.880 ms

Loss rate: 0.01%

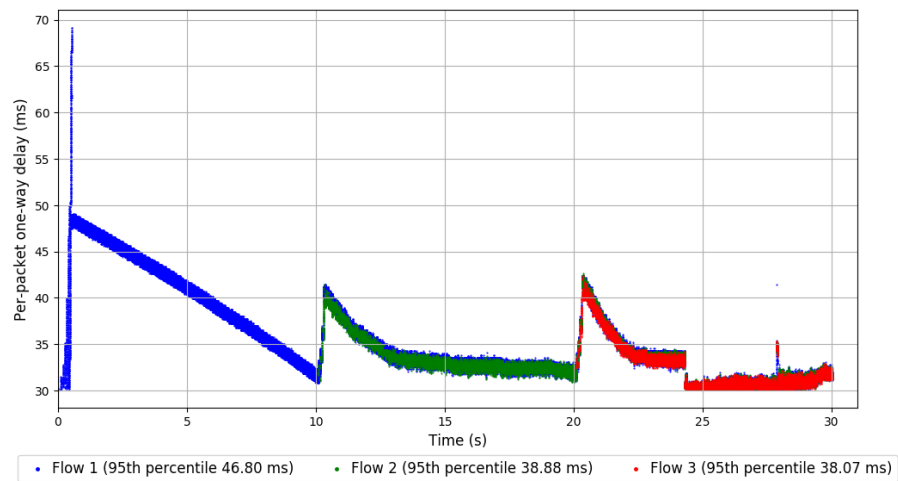
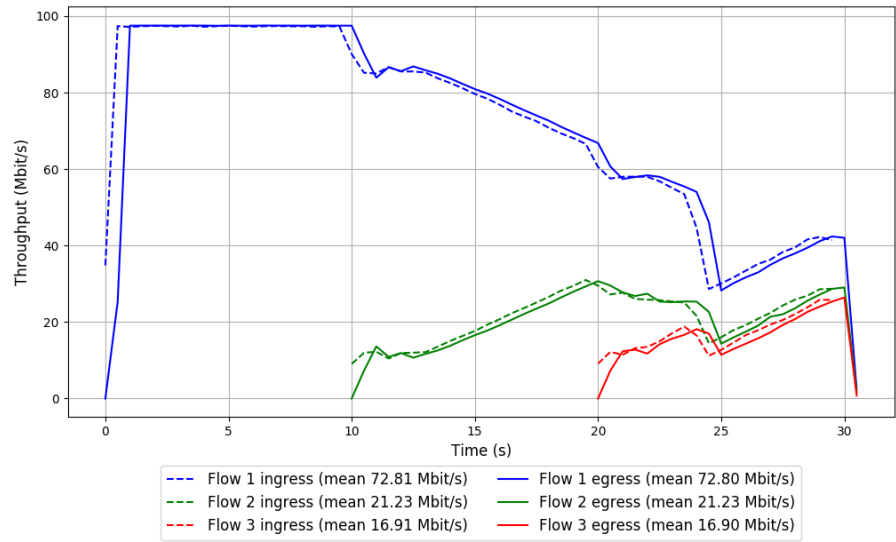
-- Flow 3:

Average throughput: 16.90 Mbit/s

95th percentile per-packet one-way delay: 38.068 ms

Loss rate: 0.07%

Run 1: Report of TCP Vegas — Data Link

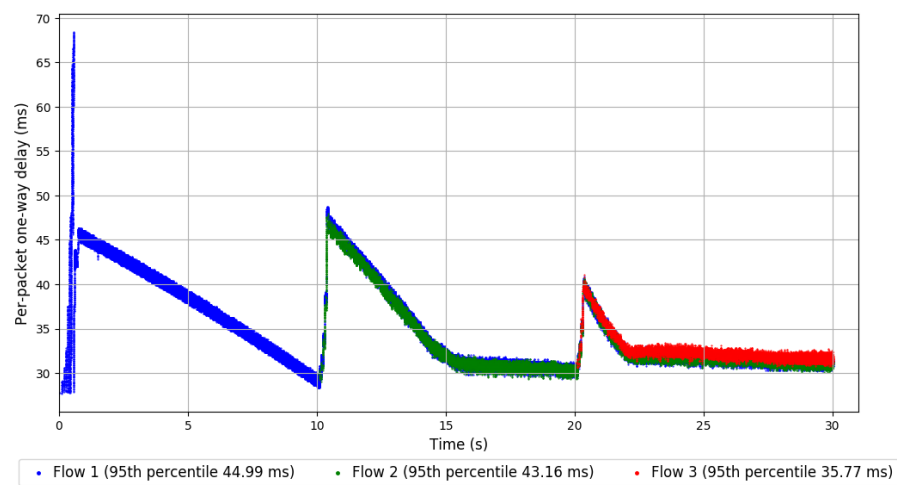
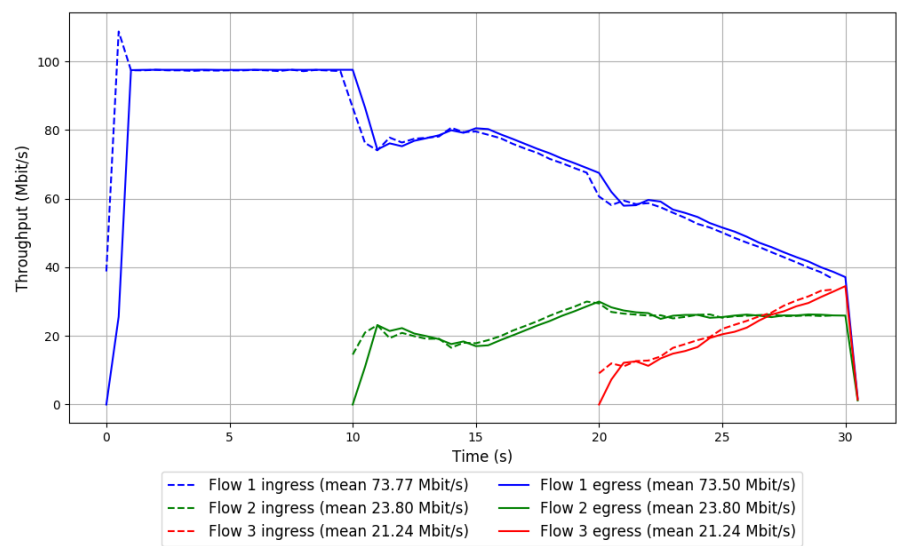


Run 2: Statistics of TCP Vegas

Start at: 2018-06-05 11:59:05
End at: 2018-06-05 11:59:35
Local clock offset: 0.294 ms
Remote clock offset: -1.496 ms

Below is generated by plot.py at 2018-06-05 15:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 44.728 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 73.50 Mbit/s
95th percentile per-packet one-way delay: 44.989 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 23.80 Mbit/s
95th percentile per-packet one-way delay: 43.160 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.24 Mbit/s
95th percentile per-packet one-way delay: 35.770 ms
Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link

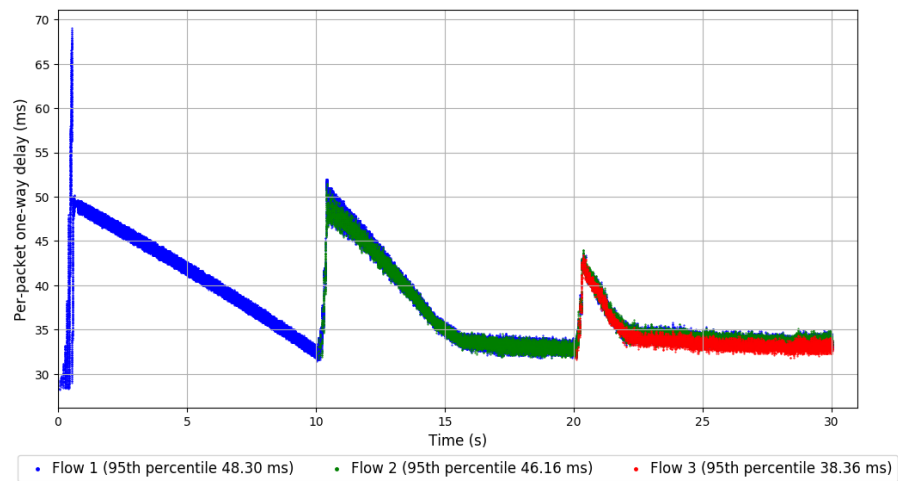
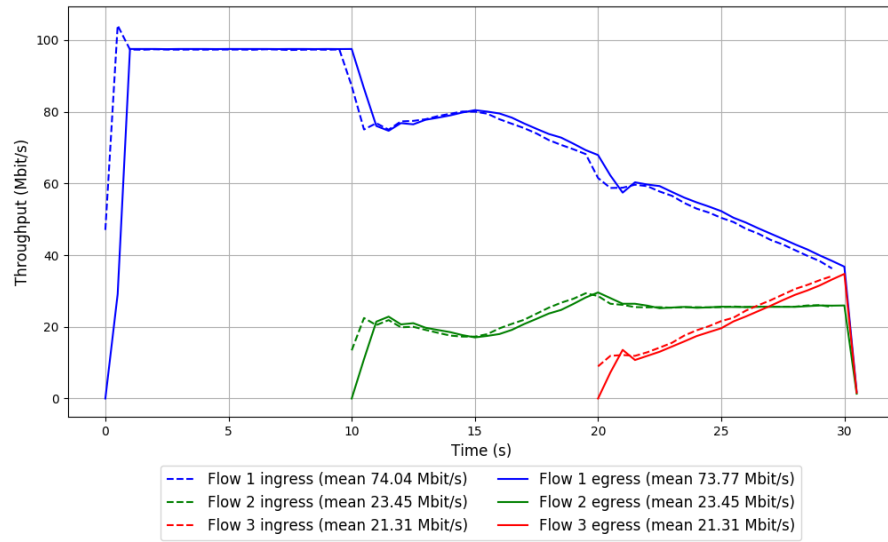


Run 3: Statistics of TCP Vegas

Start at: 2018-06-05 12:20:36
End at: 2018-06-05 12:21:06
Local clock offset: -0.016 ms
Remote clock offset: -2.043 ms

Below is generated by plot.py at 2018-06-05 15:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 48.023 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 73.77 Mbit/s
95th percentile per-packet one-way delay: 48.299 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 23.45 Mbit/s
95th percentile per-packet one-way delay: 46.157 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.31 Mbit/s
95th percentile per-packet one-way delay: 38.356 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

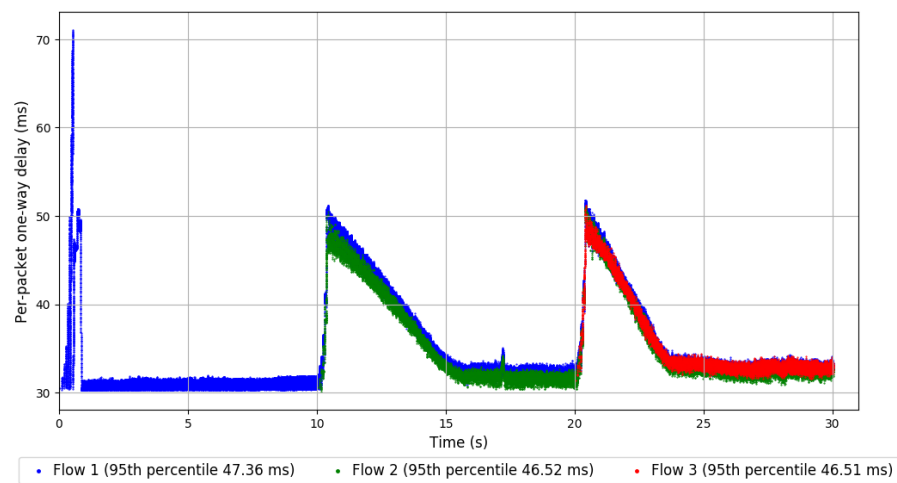
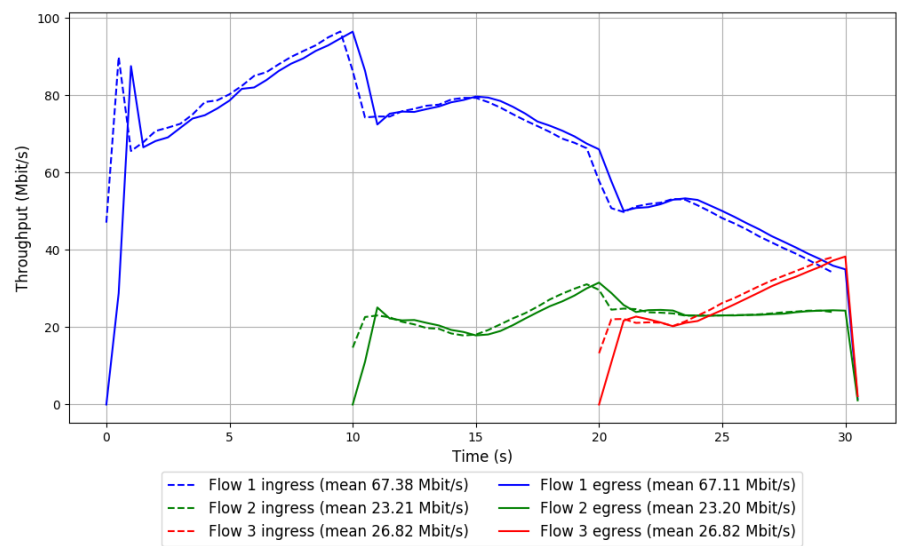


Run 4: Statistics of TCP Vegas

Start at: 2018-06-05 12:42:10
End at: 2018-06-05 12:42:40
Local clock offset: 0.125 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-05 15:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 47.052 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 67.11 Mbit/s
95th percentile per-packet one-way delay: 47.360 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 46.517 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.82 Mbit/s
95th percentile per-packet one-way delay: 46.508 ms
Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link

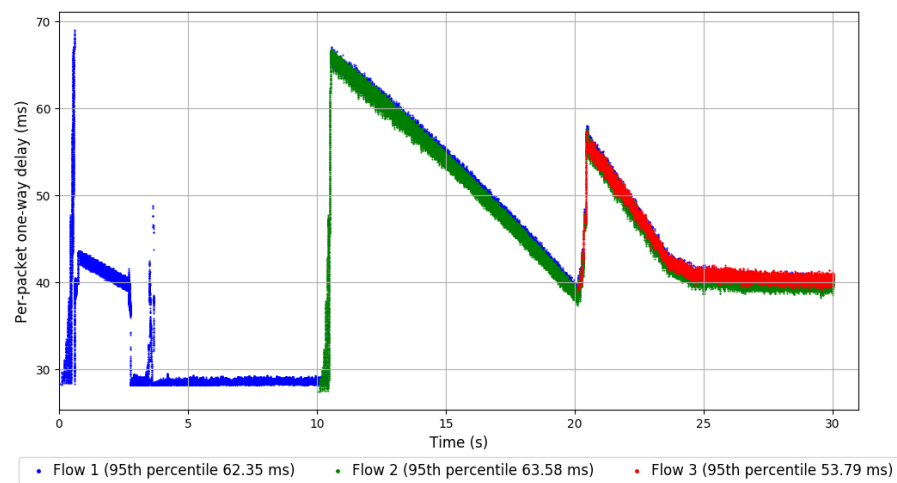
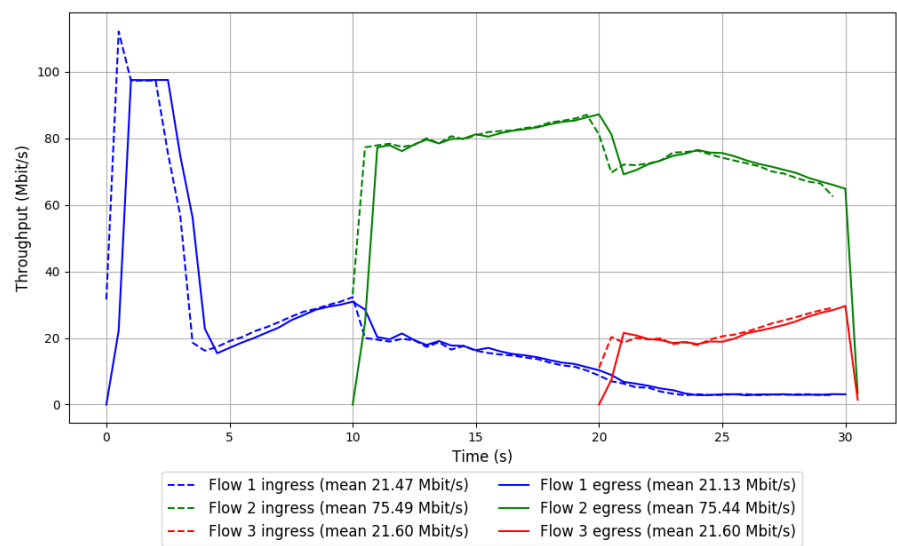


Run 5: Statistics of TCP Vegas

Start at: 2018-06-05 13:03:40
End at: 2018-06-05 13:04:10
Local clock offset: 0.288 ms
Remote clock offset: -2.149 ms

Below is generated by plot.py at 2018-06-05 15:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.58 Mbit/s
95th percentile per-packet one-way delay: 63.052 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 62.350 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 75.44 Mbit/s
95th percentile per-packet one-way delay: 63.578 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.60 Mbit/s
95th percentile per-packet one-way delay: 53.786 ms
Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-05 13:25:13

End at: 2018-06-05 13:25:43

Local clock offset: 0.069 ms

Remote clock offset: 0.32 ms

Below is generated by plot.py at 2018-06-05 15:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.22 Mbit/s

95th percentile per-packet one-way delay: 58.209 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 44.04 Mbit/s

95th percentile per-packet one-way delay: 58.436 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 28.38 Mbit/s

95th percentile per-packet one-way delay: 59.706 ms

Loss rate: 0.24%

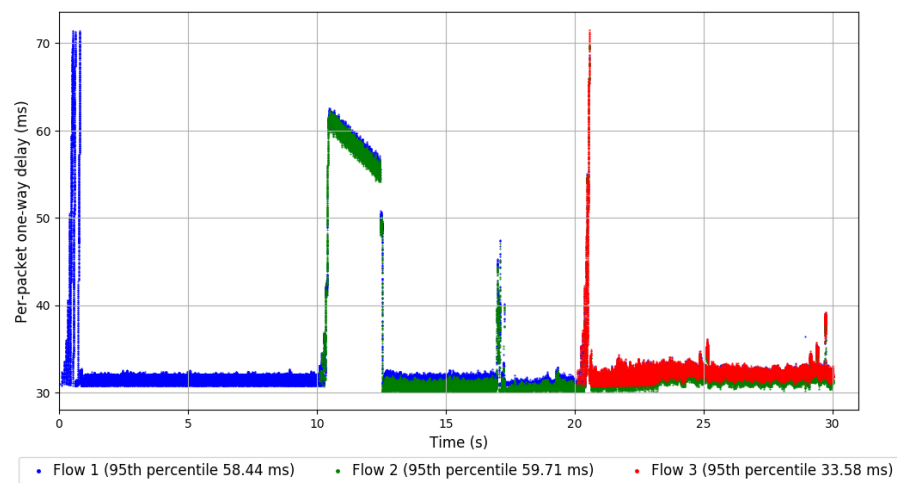
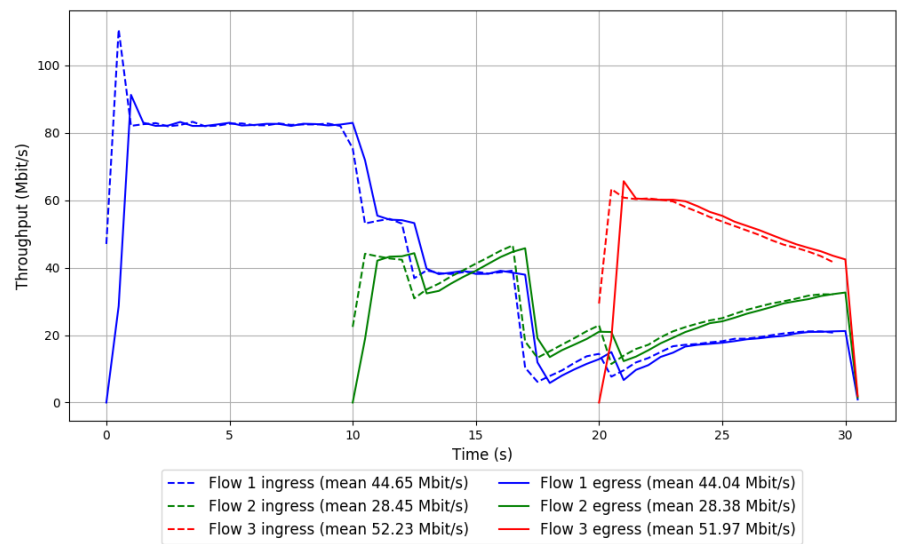
-- Flow 3:

Average throughput: 51.97 Mbit/s

95th percentile per-packet one-way delay: 33.581 ms

Loss rate: 0.49%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-05 13:46:39

End at: 2018-06-05 13:47:09

Local clock offset: 0.024 ms

Remote clock offset: 0.385 ms

Below is generated by plot.py at 2018-06-05 15:22:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.30 Mbit/s

95th percentile per-packet one-way delay: 53.388 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 39.76 Mbit/s

95th percentile per-packet one-way delay: 49.833 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 41.20 Mbit/s

95th percentile per-packet one-way delay: 54.147 ms

Loss rate: 0.88%

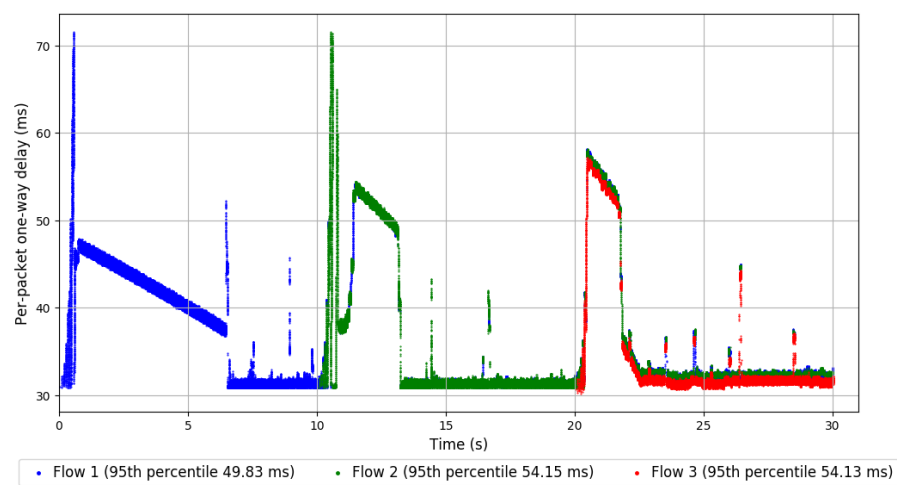
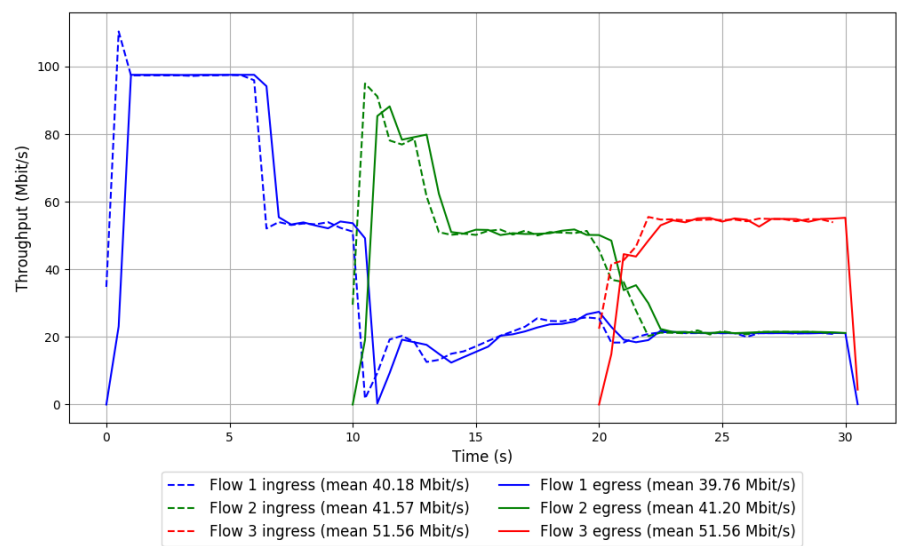
-- Flow 3:

Average throughput: 51.56 Mbit/s

95th percentile per-packet one-way delay: 54.129 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-05 14:08:07

End at: 2018-06-05 14:08:37

Local clock offset: -0.112 ms

Remote clock offset: -2.44 ms

Below is generated by plot.py at 2018-06-05 15:22:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.97 Mbit/s

95th percentile per-packet one-way delay: 41.697 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 46.24 Mbit/s

95th percentile per-packet one-way delay: 42.530 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 49.96 Mbit/s

95th percentile per-packet one-way delay: 35.050 ms

Loss rate: 0.29%

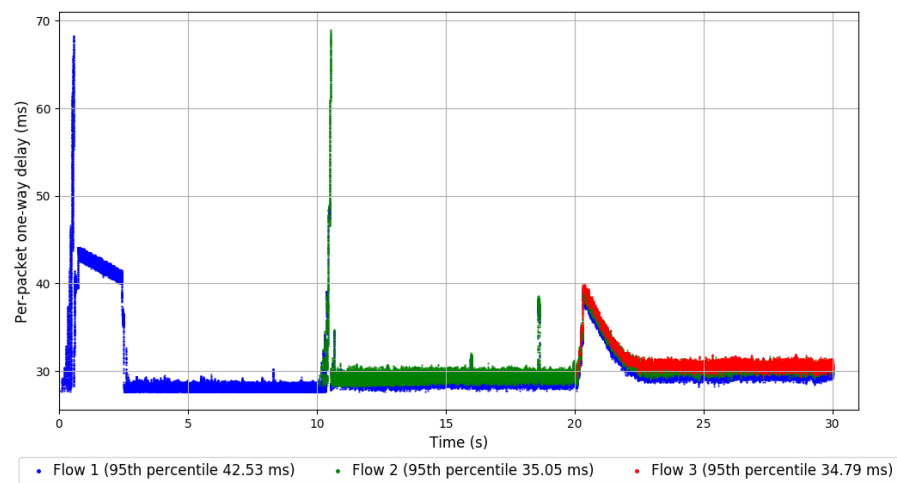
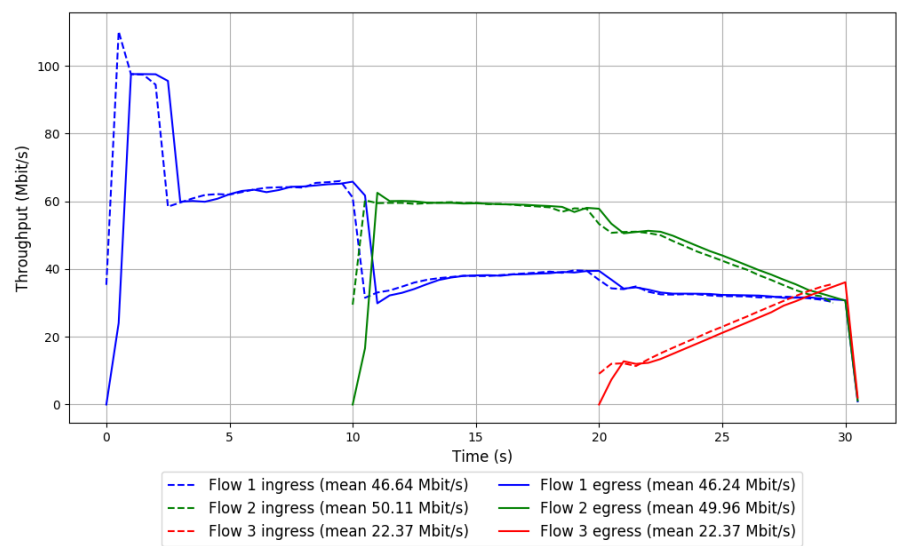
-- Flow 3:

Average throughput: 22.37 Mbit/s

95th percentile per-packet one-way delay: 34.787 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-05 14:29:51

End at: 2018-06-05 14:30:21

Local clock offset: -0.109 ms

Remote clock offset: 0.591 ms

Below is generated by plot.py at 2018-06-05 15:22:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.34 Mbit/s

95th percentile per-packet one-way delay: 33.512 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 35.51 Mbit/s

95th percentile per-packet one-way delay: 34.192 ms

Loss rate: 1.71%

-- Flow 2:

Average throughput: 18.89 Mbit/s

95th percentile per-packet one-way delay: 32.920 ms

Loss rate: 0.44%

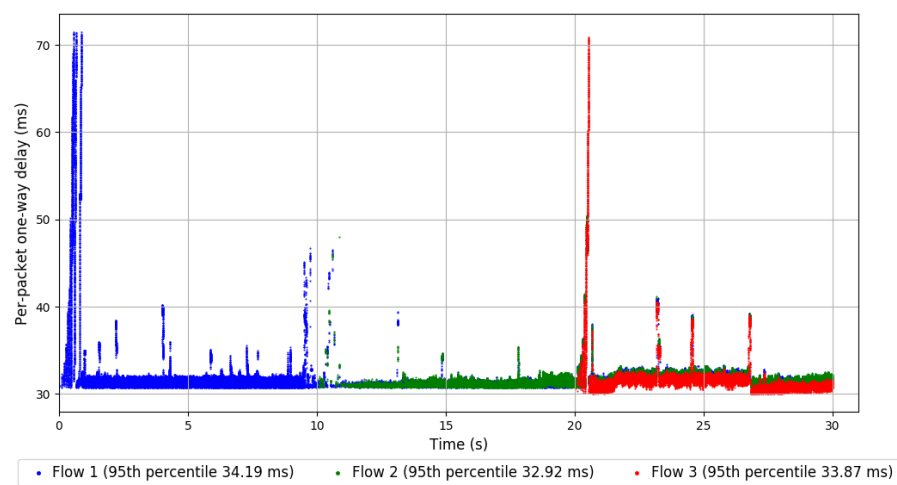
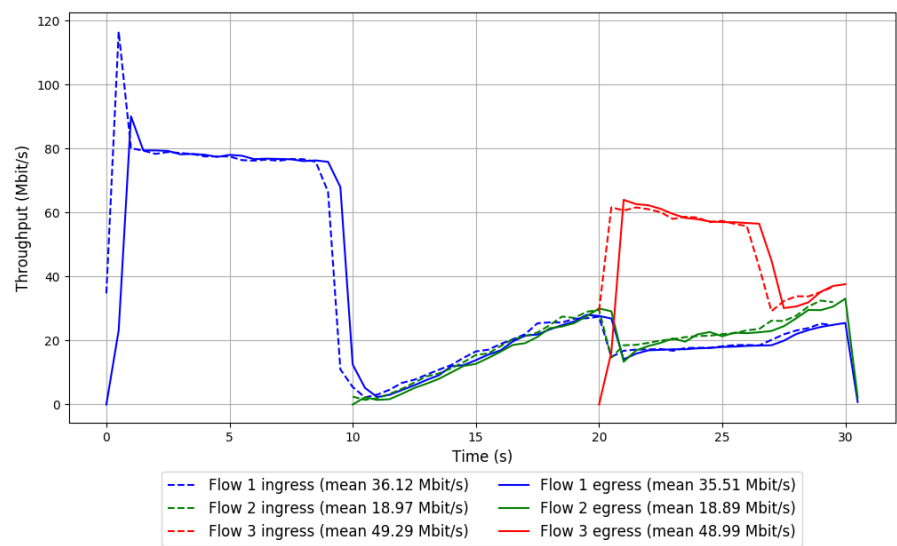
-- Flow 3:

Average throughput: 48.99 Mbit/s

95th percentile per-packet one-way delay: 33.874 ms

Loss rate: 0.60%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-05 14:51:22

End at: 2018-06-05 14:51:52

Local clock offset: -0.06 ms

Remote clock offset: 1.157 ms

Below is generated by plot.py at 2018-06-05 15:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.93 Mbit/s

95th percentile per-packet one-way delay: 45.745 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 38.97 Mbit/s

95th percentile per-packet one-way delay: 45.963 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 46.46 Mbit/s

95th percentile per-packet one-way delay: 46.093 ms

Loss rate: 0.12%

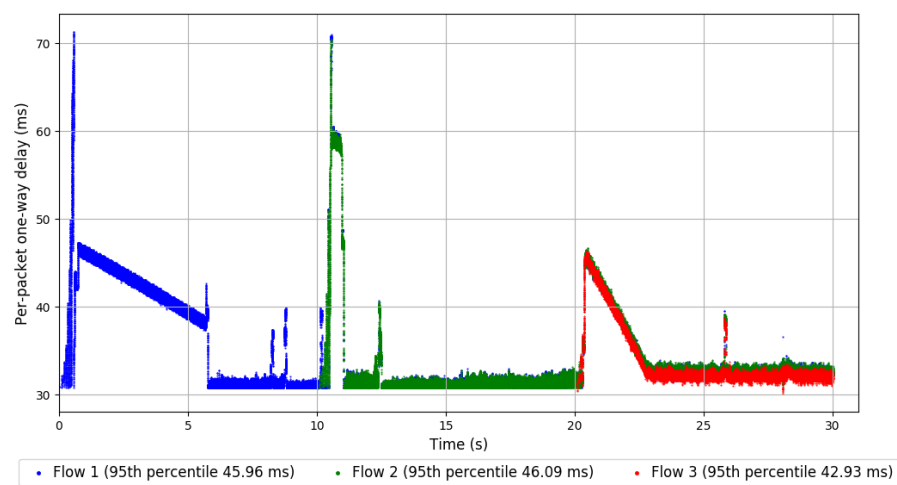
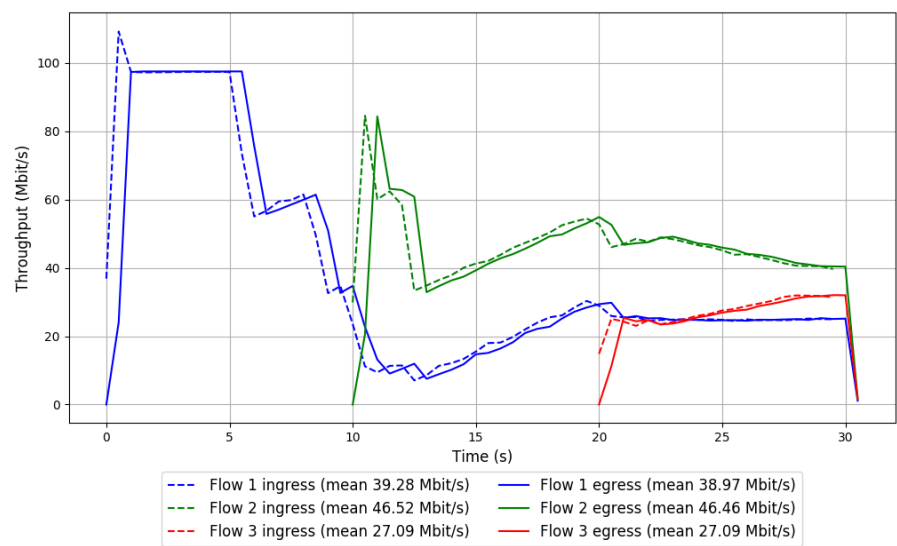
-- Flow 3:

Average throughput: 27.09 Mbit/s

95th percentile per-packet one-way delay: 42.931 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

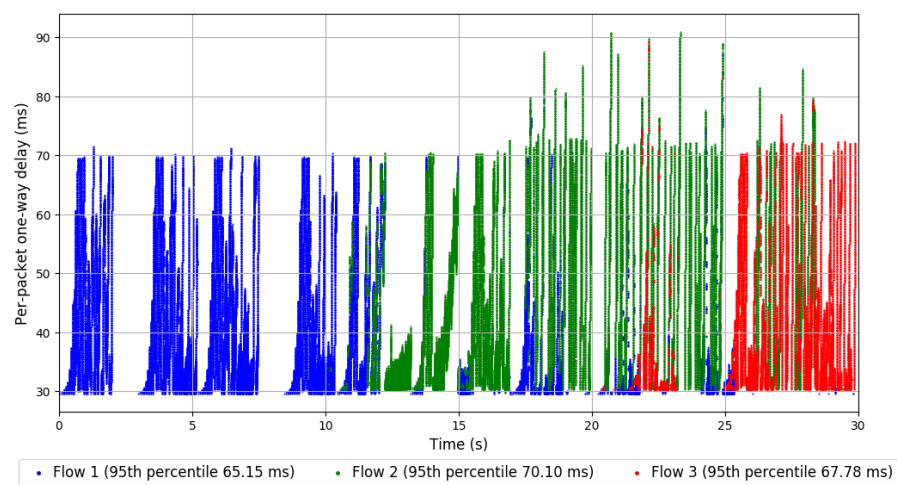
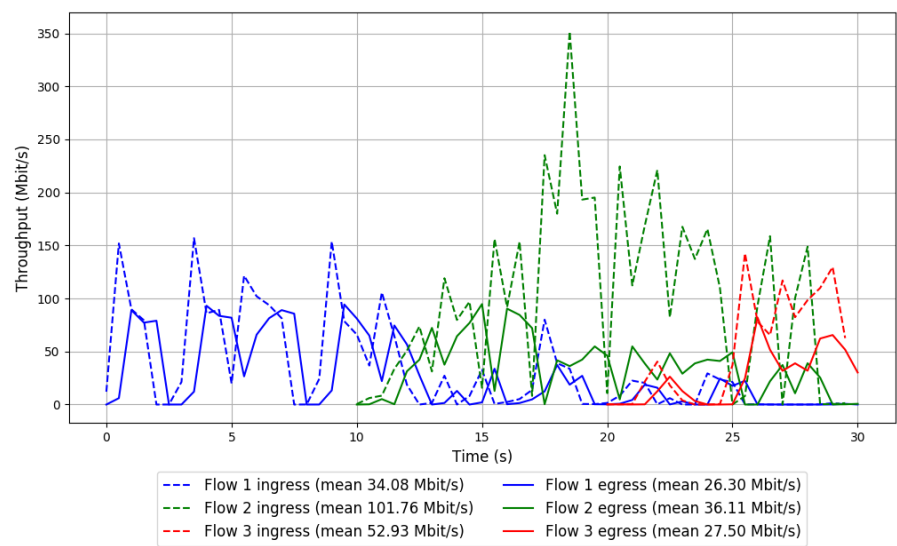


Run 1: Statistics of Verus

Start at: 2018-06-05 11:33:43
End at: 2018-06-05 11:34:13
Local clock offset: 0.087 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2018-06-05 15:23:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.70 Mbit/s
95th percentile per-packet one-way delay: 67.781 ms
Loss rate: 50.18%
-- Flow 1:
Average throughput: 26.30 Mbit/s
95th percentile per-packet one-way delay: 65.148 ms
Loss rate: 22.99%
-- Flow 2:
Average throughput: 36.11 Mbit/s
95th percentile per-packet one-way delay: 70.100 ms
Loss rate: 64.62%
-- Flow 3:
Average throughput: 27.50 Mbit/s
95th percentile per-packet one-way delay: 67.781 ms
Loss rate: 47.86%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-05 11:55:09

End at: 2018-06-05 11:55:39

Local clock offset: 0.363 ms

Remote clock offset: 0.954 ms

Below is generated by plot.py at 2018-06-05 15:23:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.92 Mbit/s

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

Loss rate: 23.77%

-- Flow 1:

Average throughput: 41.03 Mbit/s

95th percentile per-packet one-way delay: 65.554 ms

Loss rate: 23.40%

-- Flow 2:

Average throughput: 29.56 Mbit/s

95th percentile per-packet one-way delay: 65.741 ms

Loss rate: 22.82%

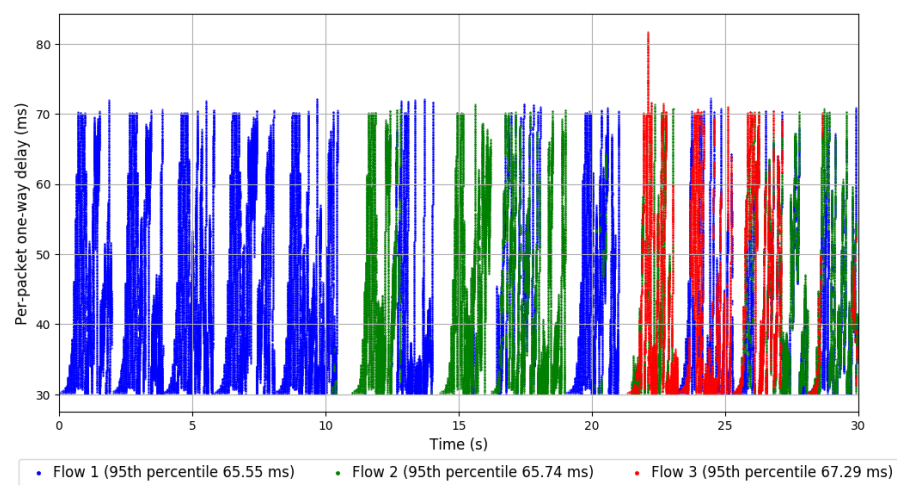
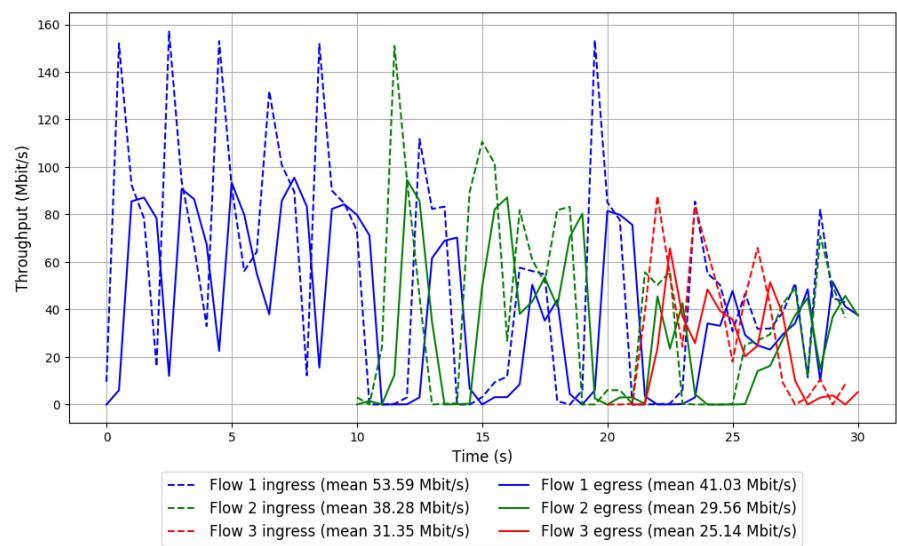
-- Flow 3:

Average throughput: 25.14 Mbit/s

95th percentile per-packet one-way delay: 67.290 ms

Loss rate: 28.09%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-05 12:16:40

End at: 2018-06-05 12:17:10

Local clock offset: 0.034 ms

Remote clock offset: 0.114 ms

Below is generated by plot.py at 2018-06-05 15:23:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.09 Mbit/s

95th percentile per-packet one-way delay: 66.658 ms

Loss rate: 38.78%

-- Flow 1:

Average throughput: 53.17 Mbit/s

95th percentile per-packet one-way delay: 66.880 ms

Loss rate: 39.82%

-- Flow 2:

Average throughput: 20.96 Mbit/s

95th percentile per-packet one-way delay: 65.599 ms

Loss rate: 34.40%

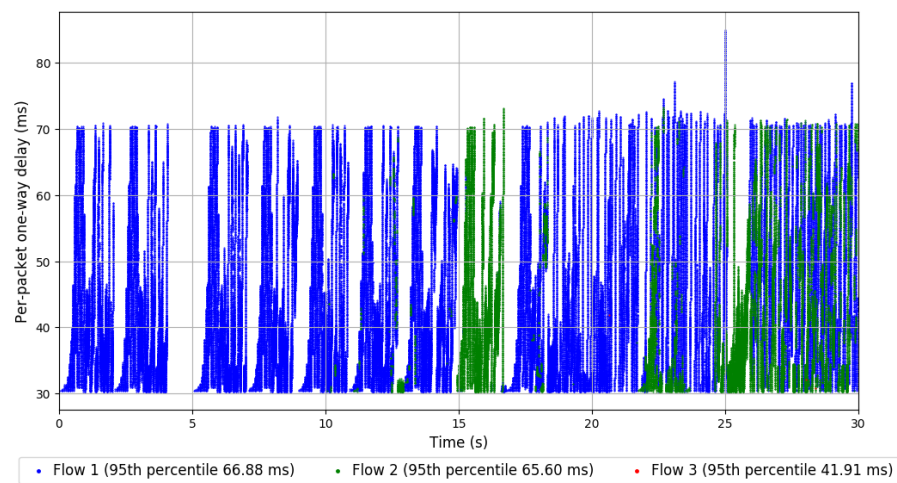
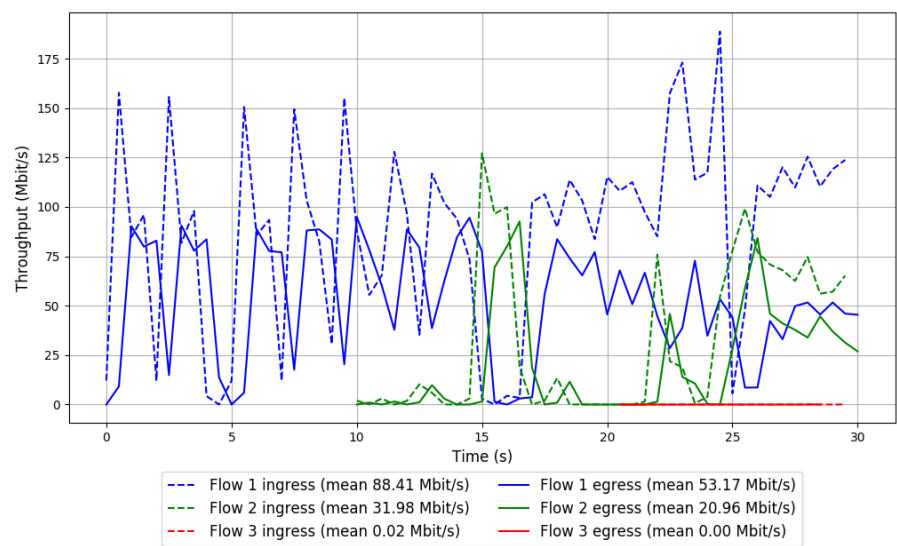
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 41.906 ms

Loss rate: 83.33%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-05 12:38:14

End at: 2018-06-05 12:38:44

Local clock offset: 0.029 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-06-05 15:23:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.80 Mbit/s

95th percentile per-packet one-way delay: 66.600 ms

Loss rate: 39.54%

-- Flow 1:

Average throughput: 34.39 Mbit/s

95th percentile per-packet one-way delay: 64.968 ms

Loss rate: 21.49%

-- Flow 2:

Average throughput: 38.31 Mbit/s

95th percentile per-packet one-way delay: 69.154 ms

Loss rate: 55.90%

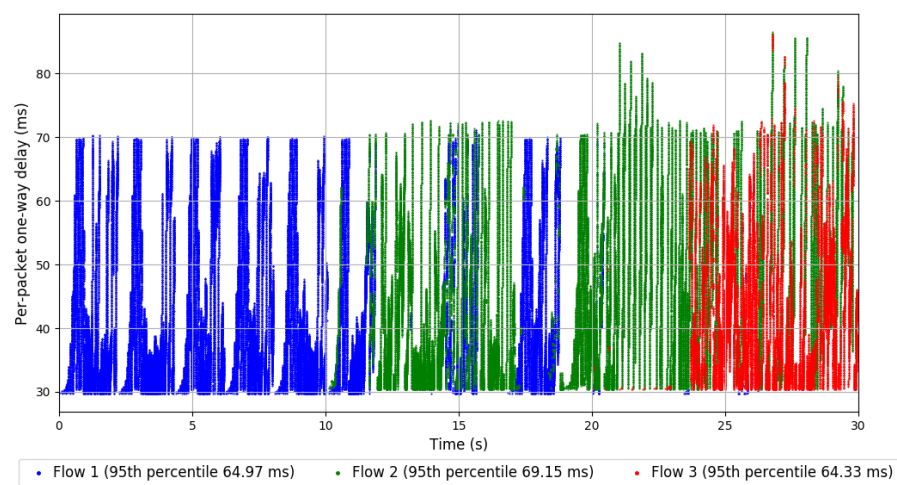
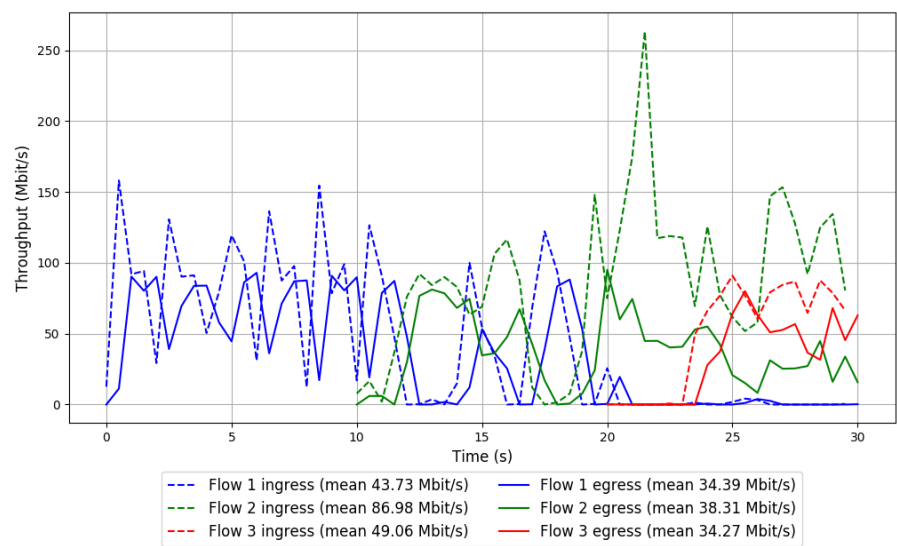
-- Flow 3:

Average throughput: 34.27 Mbit/s

95th percentile per-packet one-way delay: 64.330 ms

Loss rate: 30.10%

Run 4: Report of Verus — Data Link

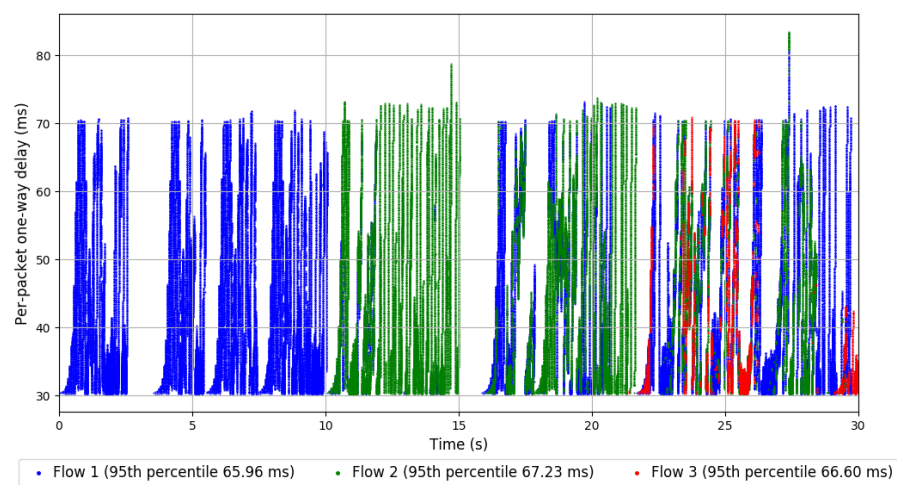
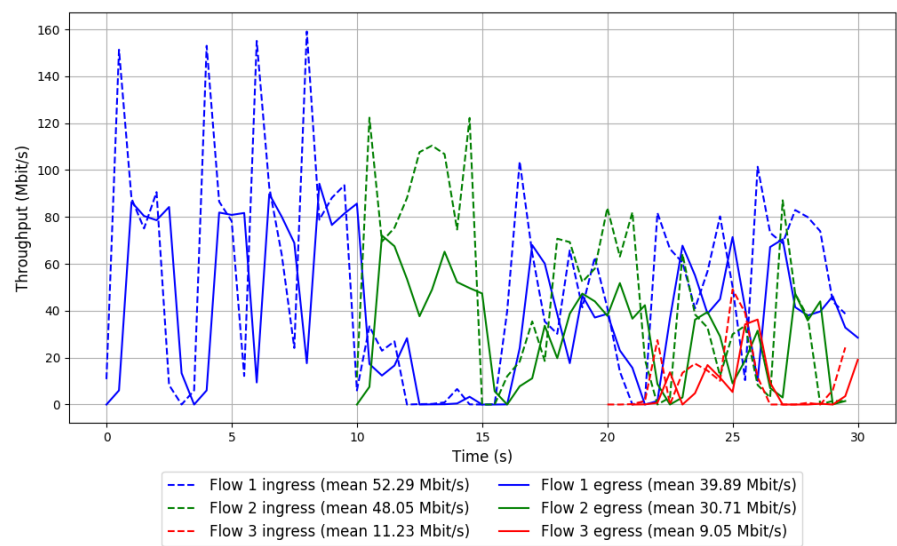


Run 5: Statistics of Verus

Start at: 2018-06-05 12:59:45
End at: 2018-06-05 13:00:15
Local clock offset: 0.285 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-06-05 15:23:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.37 Mbit/s
95th percentile per-packet one-way delay: 66.376 ms
Loss rate: 28.39%
-- Flow 1:
Average throughput: 39.89 Mbit/s
95th percentile per-packet one-way delay: 65.963 ms
Loss rate: 23.70%
-- Flow 2:
Average throughput: 30.71 Mbit/s
95th percentile per-packet one-way delay: 67.234 ms
Loss rate: 36.27%
-- Flow 3:
Average throughput: 9.05 Mbit/s
95th percentile per-packet one-way delay: 66.601 ms
Loss rate: 27.80%

Run 5: Report of Verus — Data Link

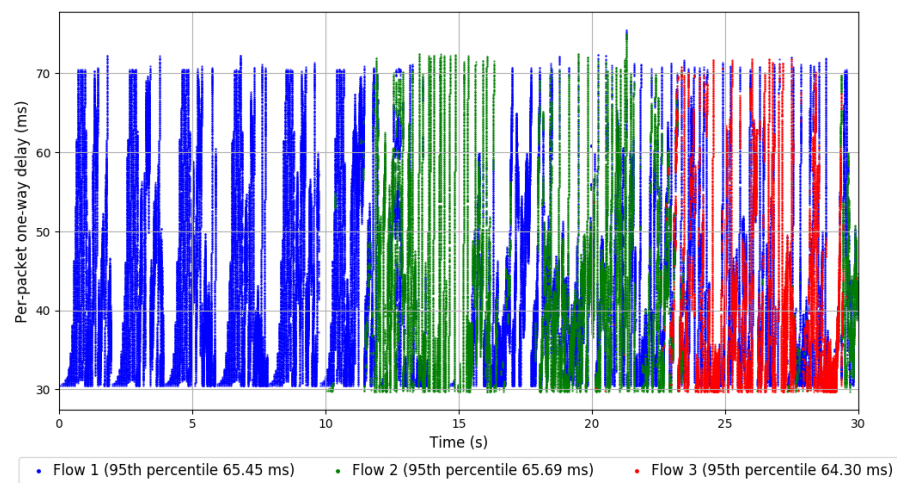
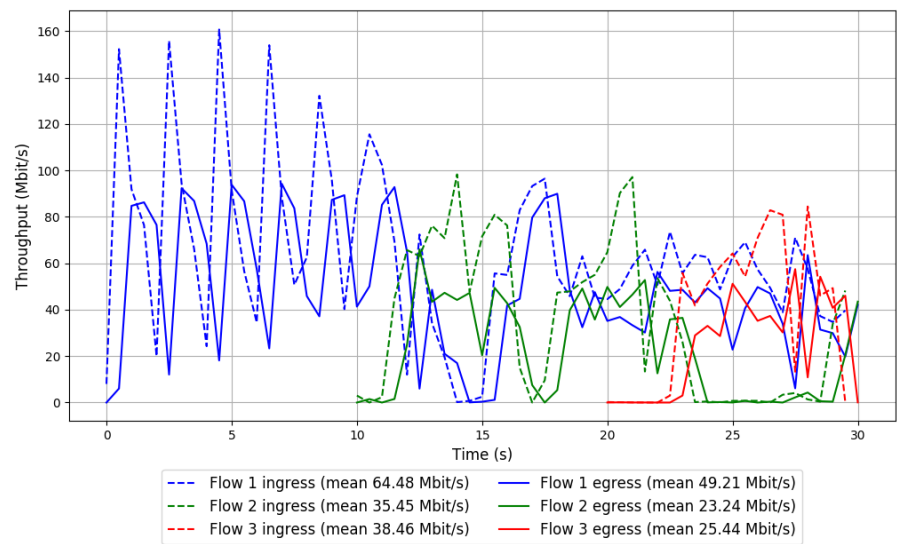


Run 6: Statistics of Verus

Start at: 2018-06-05 13:21:16
End at: 2018-06-05 13:21:46
Local clock offset: -0.013 ms
Remote clock offset: -0.132 ms

Below is generated by plot.py at 2018-06-05 15:23:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.04 Mbit/s
95th percentile per-packet one-way delay: 65.373 ms
Loss rate: 27.46%
-- Flow 1:
Average throughput: 49.21 Mbit/s
95th percentile per-packet one-way delay: 65.447 ms
Loss rate: 23.66%
-- Flow 2:
Average throughput: 23.24 Mbit/s
95th percentile per-packet one-way delay: 65.693 ms
Loss rate: 34.40%
-- Flow 3:
Average throughput: 25.44 Mbit/s
95th percentile per-packet one-way delay: 64.298 ms
Loss rate: 33.91%

Run 6: Report of Verus — Data Link

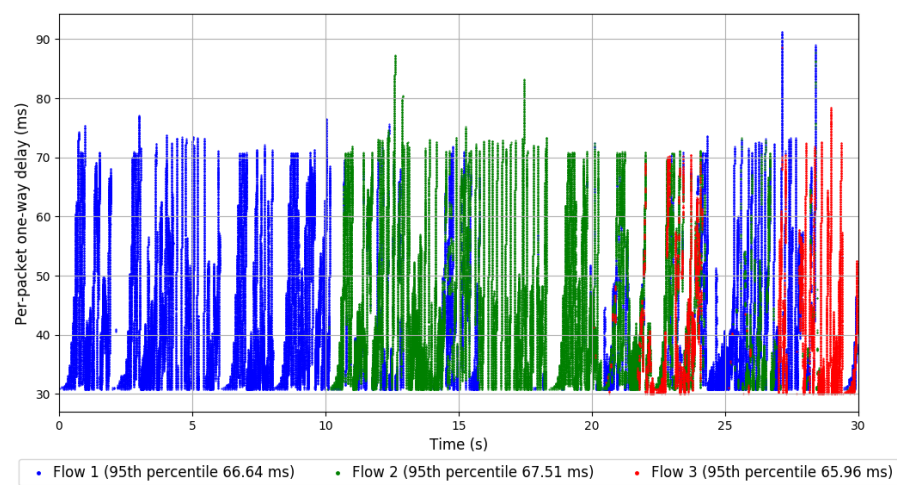
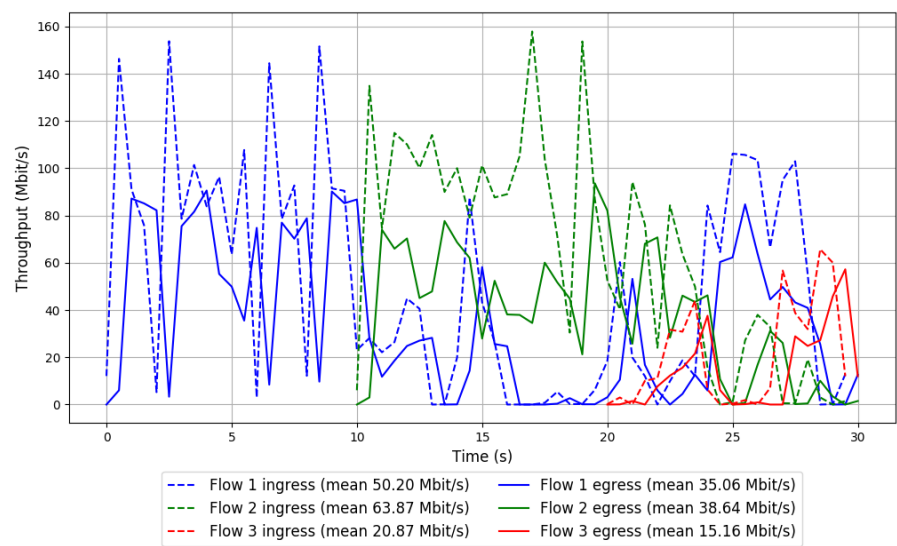


Run 7: Statistics of Verus

Start at: 2018-06-05 13:42:44
End at: 2018-06-05 13:43:14
Local clock offset: 0.025 ms
Remote clock offset: 0.29 ms

```
# Below is generated by plot.py at 2018-06-05 15:23:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.70 Mbit/s
95th percentile per-packet one-way delay: 66.957 ms
Loss rate: 33.93%
-- Flow 1:
Average throughput: 35.06 Mbit/s
95th percentile per-packet one-way delay: 66.645 ms
Loss rate: 30.14%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 67.514 ms
Loss rate: 39.49%
-- Flow 3:
Average throughput: 15.16 Mbit/s
95th percentile per-packet one-way delay: 65.959 ms
Loss rate: 27.28%
```


Run 7: Report of Verus — Data Link

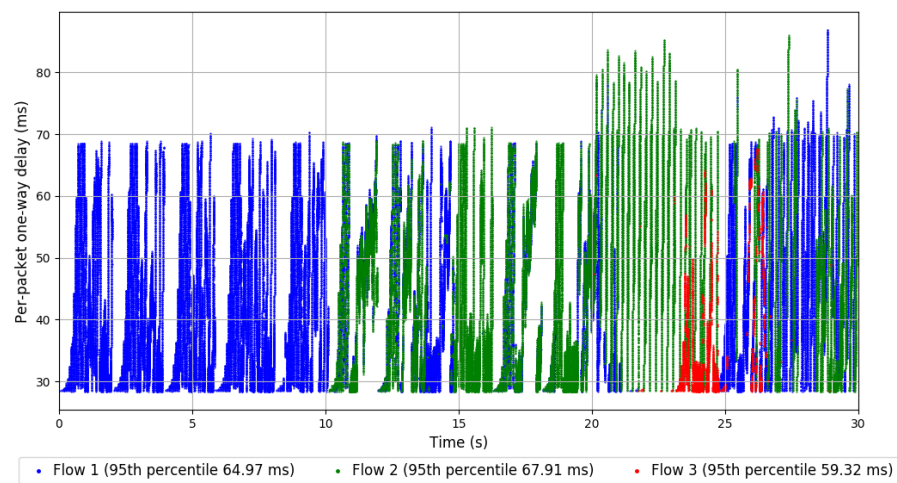
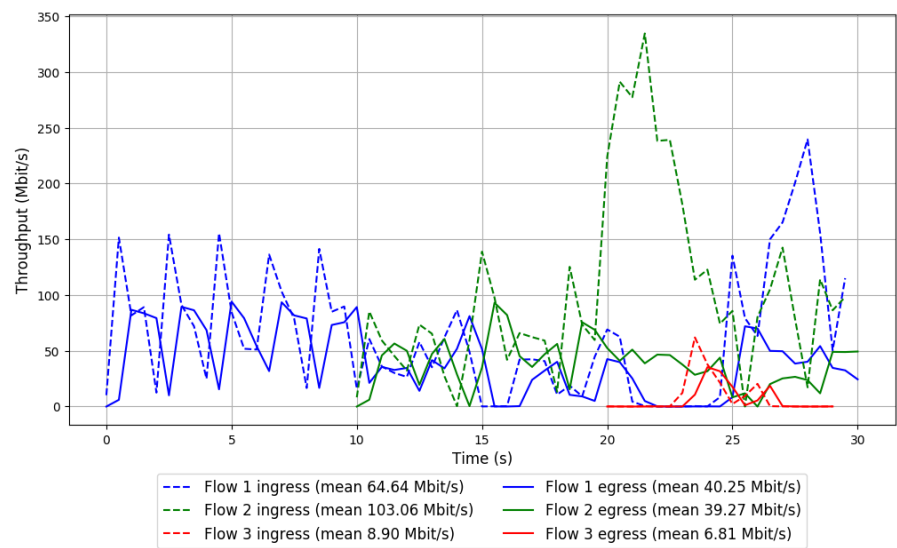


Run 8: Statistics of Verus

Start at: 2018-06-05 14:04:11
End at: 2018-06-05 14:04:41
Local clock offset: -0.091 ms
Remote clock offset: -2.334 ms

Below is generated by plot.py at 2018-06-05 15:24:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.26 Mbit/s
95th percentile per-packet one-way delay: 65.988 ms
Loss rate: 49.69%
-- Flow 1:
Average throughput: 40.25 Mbit/s
95th percentile per-packet one-way delay: 64.965 ms
Loss rate: 37.65%
-- Flow 2:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 67.907 ms
Loss rate: 61.90%
-- Flow 3:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 59.317 ms
Loss rate: 27.45%

Run 8: Report of Verus — Data Link

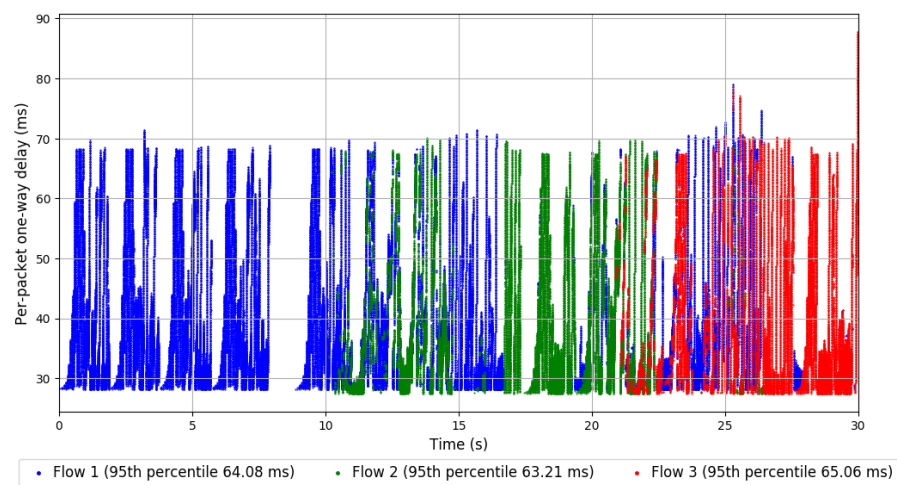
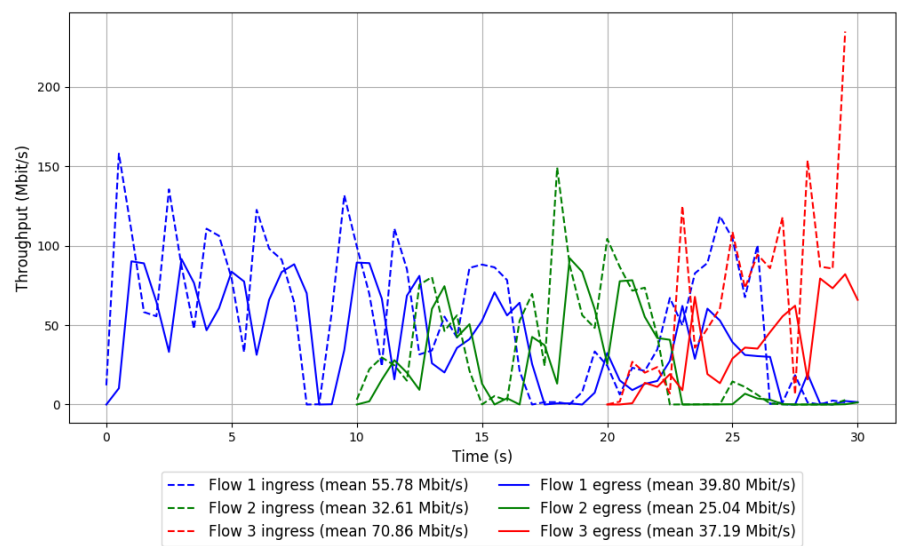


Run 9: Statistics of Verus

Start at: 2018-06-05 14:25:56
End at: 2018-06-05 14:26:26
Local clock offset: -0.112 ms
Remote clock offset: -2.213 ms

Below is generated by plot.py at 2018-06-05 15:24:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.39 Mbit/s
95th percentile per-packet one-way delay: 64.097 ms
Loss rate: 31.87%
-- Flow 1:
Average throughput: 39.80 Mbit/s
95th percentile per-packet one-way delay: 64.084 ms
Loss rate: 28.57%
-- Flow 2:
Average throughput: 25.04 Mbit/s
95th percentile per-packet one-way delay: 63.212 ms
Loss rate: 23.48%
-- Flow 3:
Average throughput: 37.19 Mbit/s
95th percentile per-packet one-way delay: 65.064 ms
Loss rate: 47.45%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-05 14:47:25

End at: 2018-06-05 14:47:56

Local clock offset: -0.075 ms

Remote clock offset: 1.152 ms

Below is generated by plot.py at 2018-06-05 15:24:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 68.112 ms

Loss rate: 49.73%

-- Flow 1:

Average throughput: 45.22 Mbit/s

95th percentile per-packet one-way delay: 65.952 ms

Loss rate: 28.26%

-- Flow 2:

Average throughput: 26.00 Mbit/s

95th percentile per-packet one-way delay: 75.449 ms

Loss rate: 72.47%

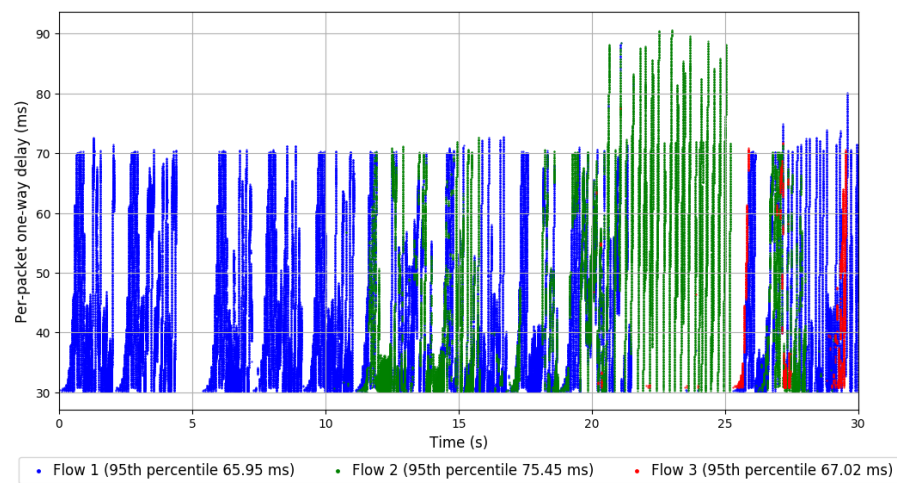
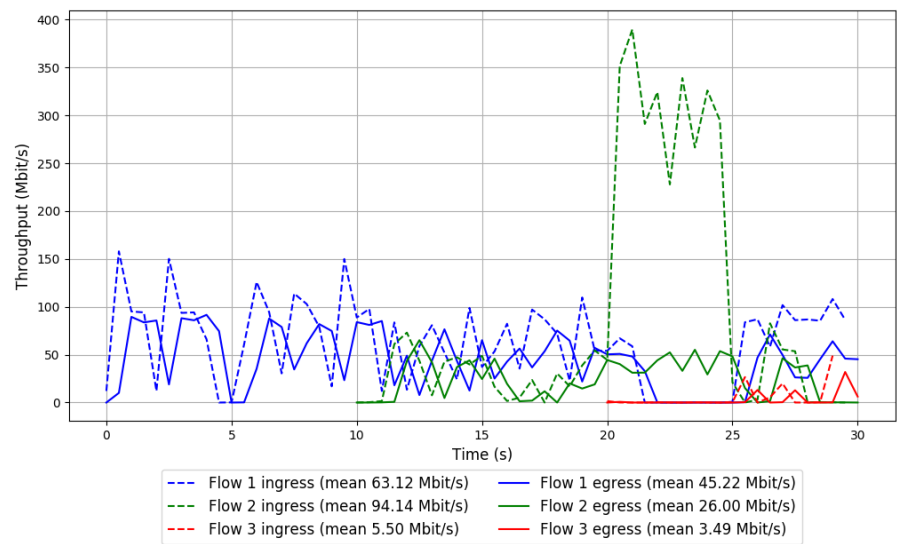
-- Flow 3:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 67.024 ms

Loss rate: 36.58%

Run 10: Report of Verus — Data Link

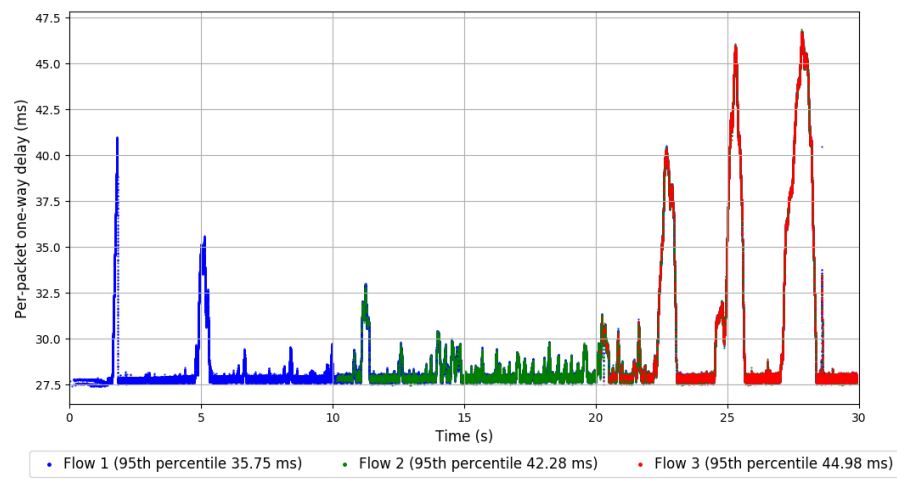
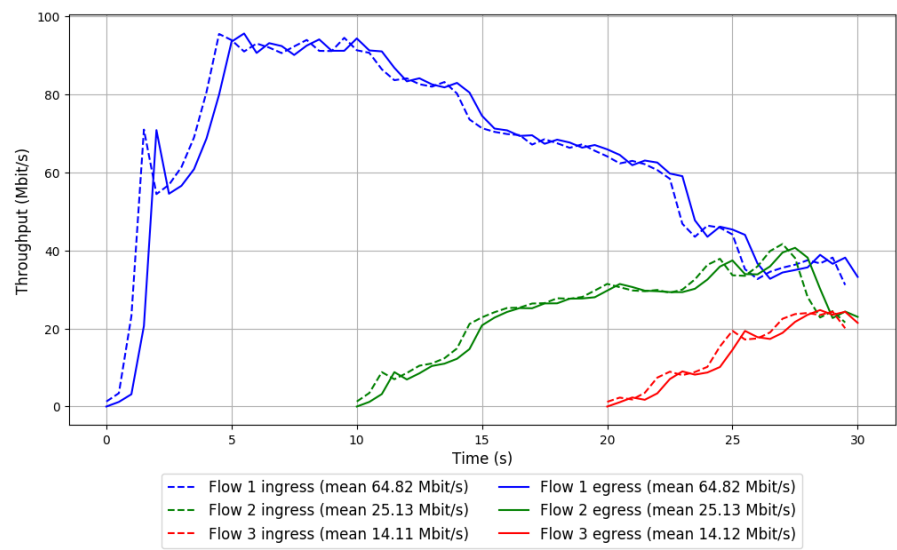


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-05 11:24:11
End at: 2018-06-05 11:24:41
Local clock offset: 0.115 ms
Remote clock offset: -2.327 ms

Below is generated by plot.py at 2018-06-05 15:24:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.19 Mbit/s
95th percentile per-packet one-way delay: 39.311 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.82 Mbit/s
95th percentile per-packet one-way delay: 35.753 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 25.13 Mbit/s
95th percentile per-packet one-way delay: 42.284 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.12 Mbit/s
95th percentile per-packet one-way delay: 44.977 ms
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-05 11:45:37

End at: 2018-06-05 11:46:07

Local clock offset: 0.315 ms

Remote clock offset: 0.648 ms

Below is generated by plot.py at 2018-06-05 15:24:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.20 Mbit/s

95th percentile per-packet one-way delay: 36.866 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.03 Mbit/s

95th percentile per-packet one-way delay: 36.347 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.36 Mbit/s

95th percentile per-packet one-way delay: 41.378 ms

Loss rate: 0.00%

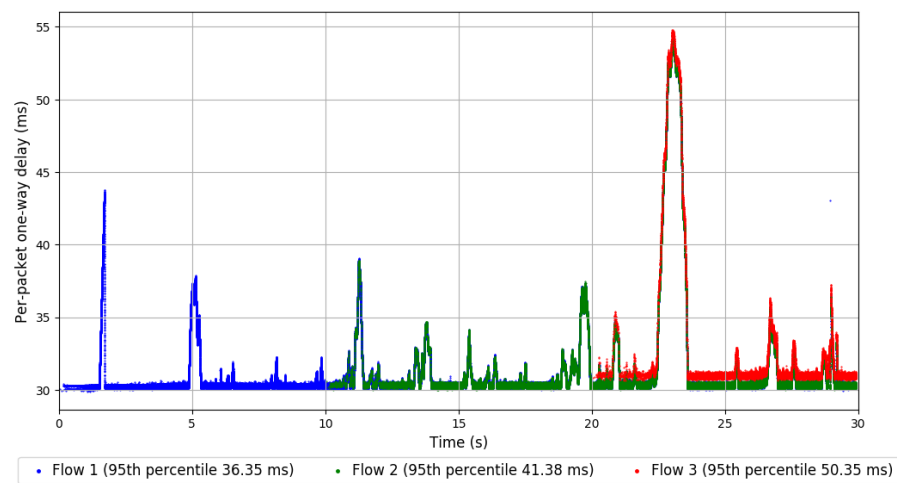
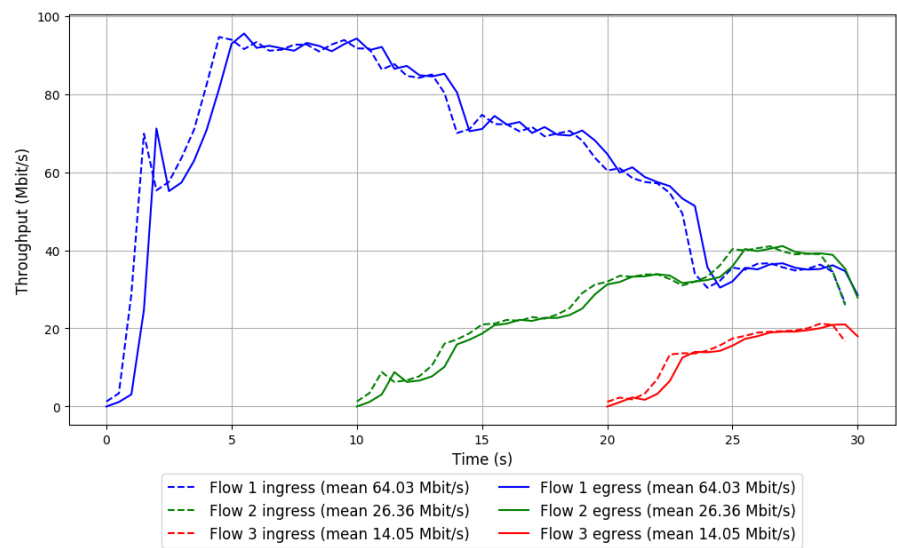
-- Flow 3:

Average throughput: 14.05 Mbit/s

95th percentile per-packet one-way delay: 50.348 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-05 12:07:06

End at: 2018-06-05 12:07:36

Local clock offset: 0.276 ms

Remote clock offset: 0.998 ms

Below is generated by plot.py at 2018-06-05 15:25:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.14 Mbit/s

95th percentile per-packet one-way delay: 46.258 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.06 Mbit/s

95th percentile per-packet one-way delay: 39.096 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.22 Mbit/s

95th percentile per-packet one-way delay: 54.298 ms

Loss rate: 0.00%

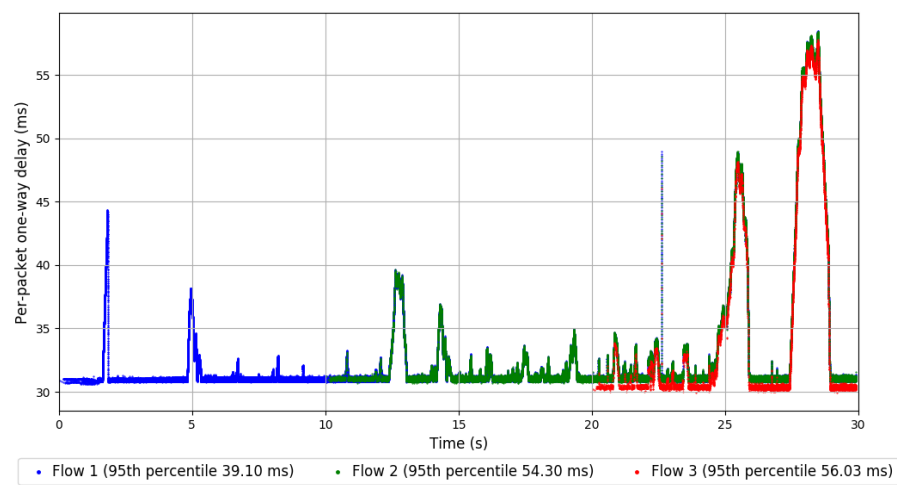
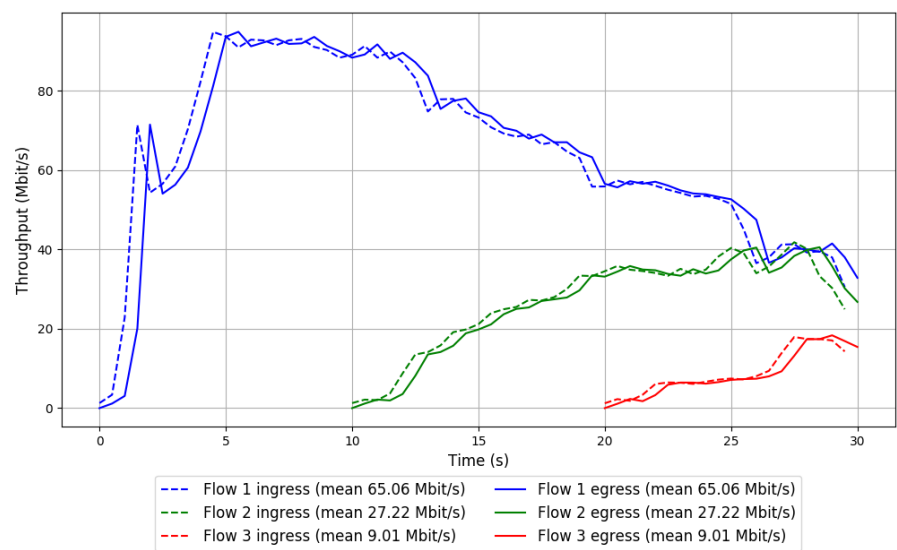
-- Flow 3:

Average throughput: 9.01 Mbit/s

95th percentile per-packet one-way delay: 56.034 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

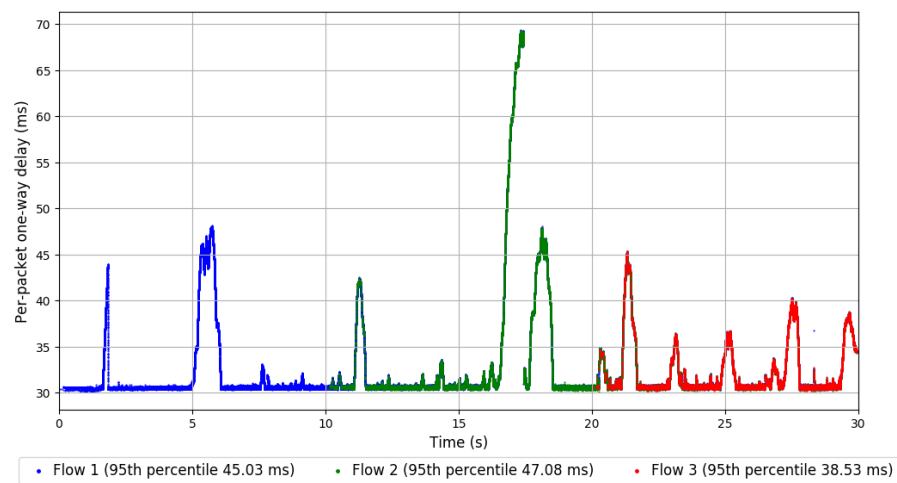
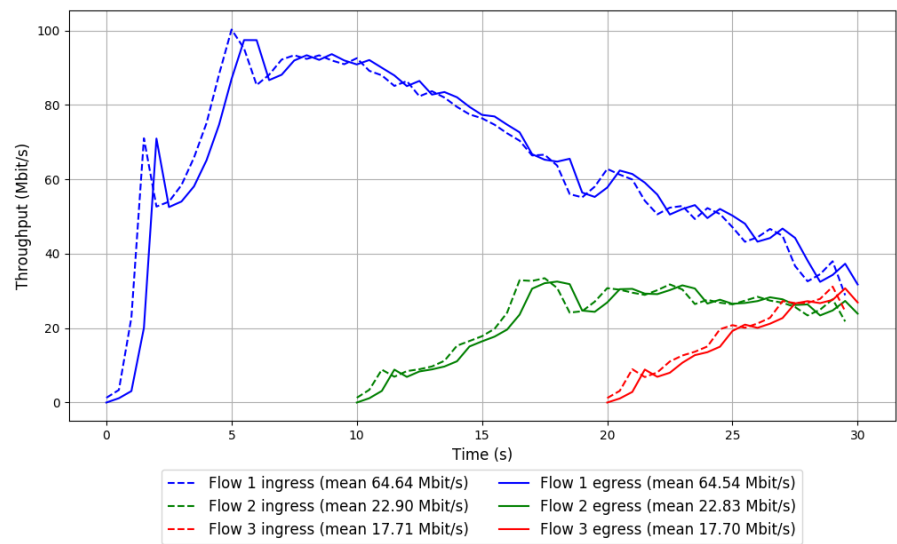


Run 4: Statistics of PCC-Vivace

Start at: 2018-06-05 12:28:39
End at: 2018-06-05 12:29:09
Local clock offset: -0.17 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-06-05 15:25:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.58 Mbit/s
95th percentile per-packet one-way delay: 44.978 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 64.54 Mbit/s
95th percentile per-packet one-way delay: 45.029 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 22.83 Mbit/s
95th percentile per-packet one-way delay: 47.075 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 17.70 Mbit/s
95th percentile per-packet one-way delay: 38.527 ms
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-05 12:50:11

End at: 2018-06-05 12:50:41

Local clock offset: 0.226 ms

Remote clock offset: 0.365 ms

Below is generated by plot.py at 2018-06-05 15:25:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.80 Mbit/s

95th percentile per-packet one-way delay: 43.087 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 63.90 Mbit/s

95th percentile per-packet one-way delay: 43.418 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 24.12 Mbit/s

95th percentile per-packet one-way delay: 42.029 ms

Loss rate: 0.13%

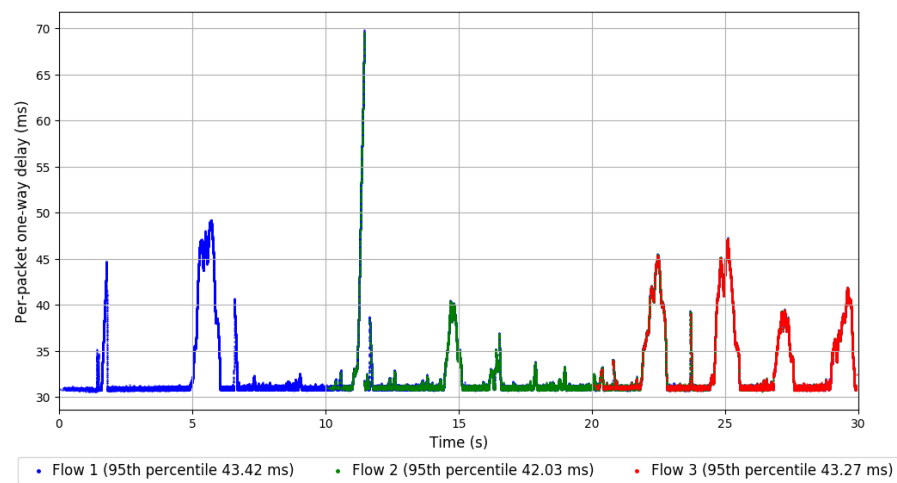
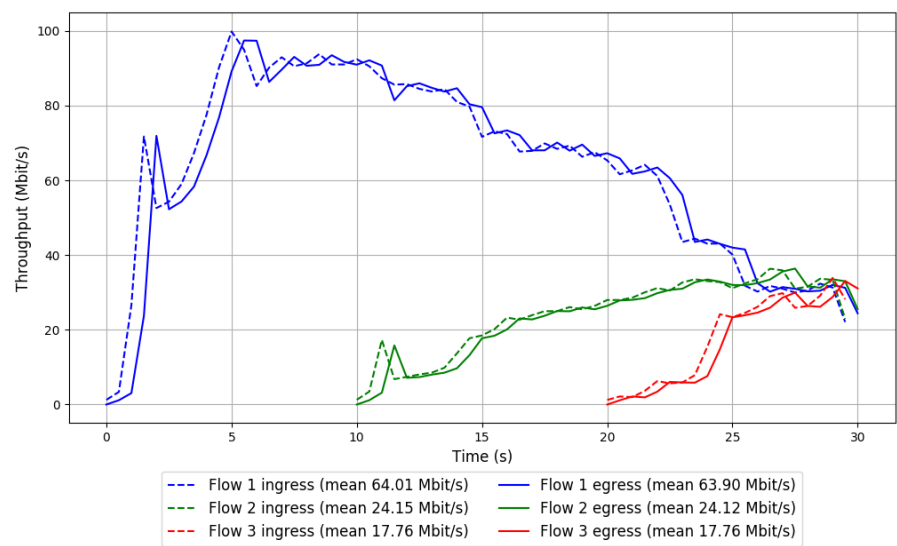
-- Flow 3:

Average throughput: 17.76 Mbit/s

95th percentile per-packet one-way delay: 43.271 ms

Loss rate: 0.02%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-05 13:11:41

End at: 2018-06-05 13:12:11

Local clock offset: 0.069 ms

Remote clock offset: 0.446 ms

Below is generated by plot.py at 2018-06-05 15:25:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 41.126 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 62.76 Mbit/s

95th percentile per-packet one-way delay: 39.495 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 28.68 Mbit/s

95th percentile per-packet one-way delay: 43.577 ms

Loss rate: 0.15%

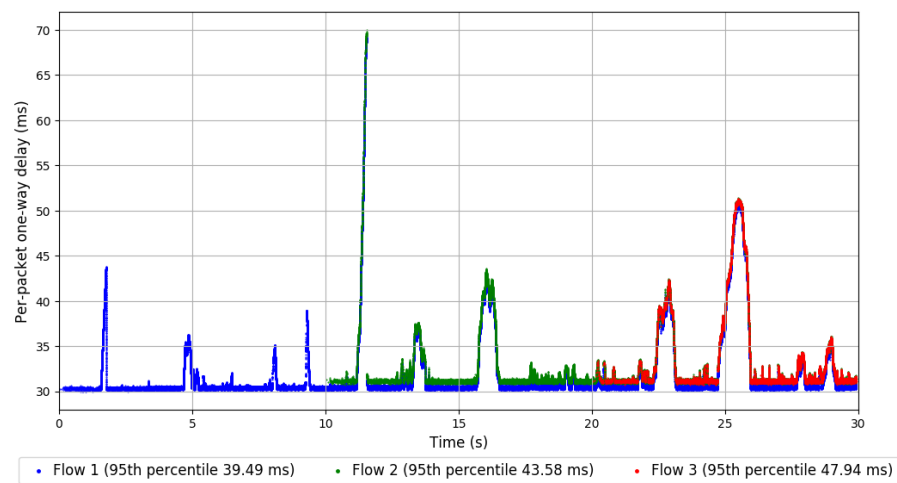
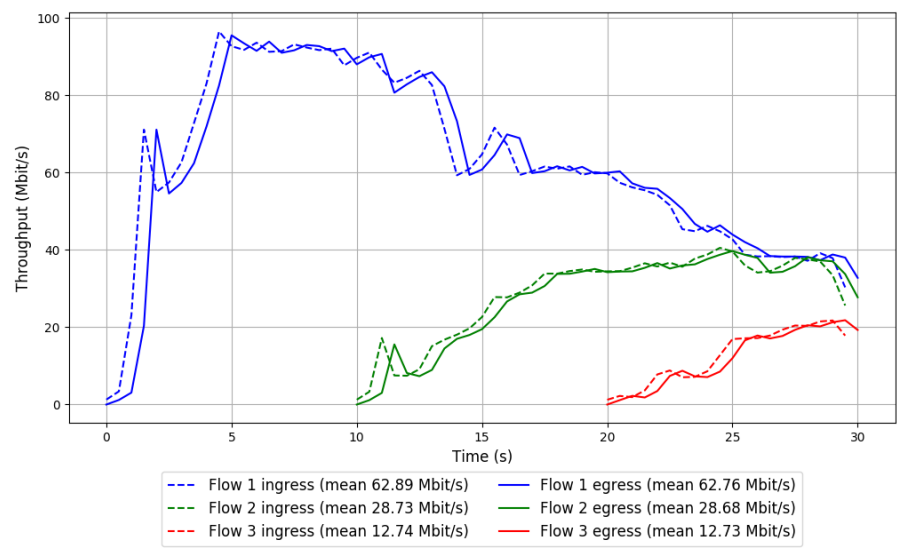
-- Flow 3:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 47.943 ms

Loss rate: 0.05%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-05 13:33:13

End at: 2018-06-05 13:33:43

Local clock offset: 0.016 ms

Remote clock offset: 0.218 ms

Below is generated by plot.py at 2018-06-05 15:25:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.06 Mbit/s

95th percentile per-packet one-way delay: 40.068 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 68.12 Mbit/s

95th percentile per-packet one-way delay: 39.310 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 47.984 ms

Loss rate: 0.39%

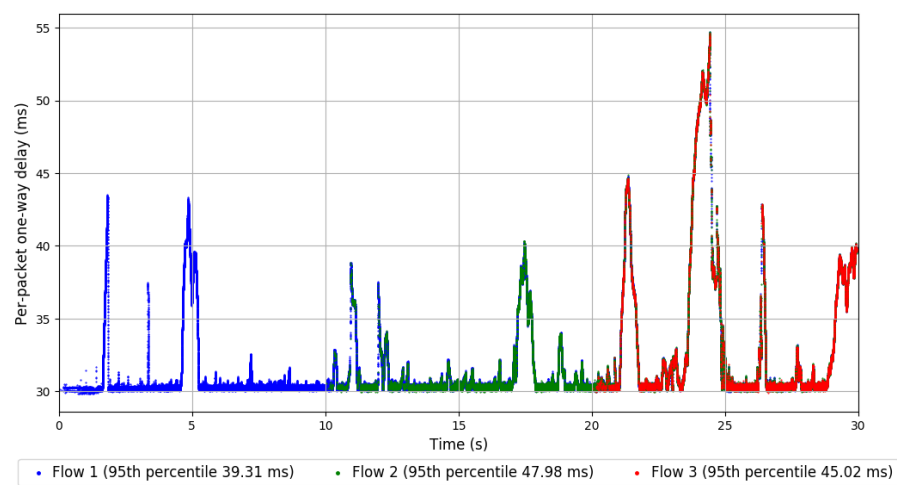
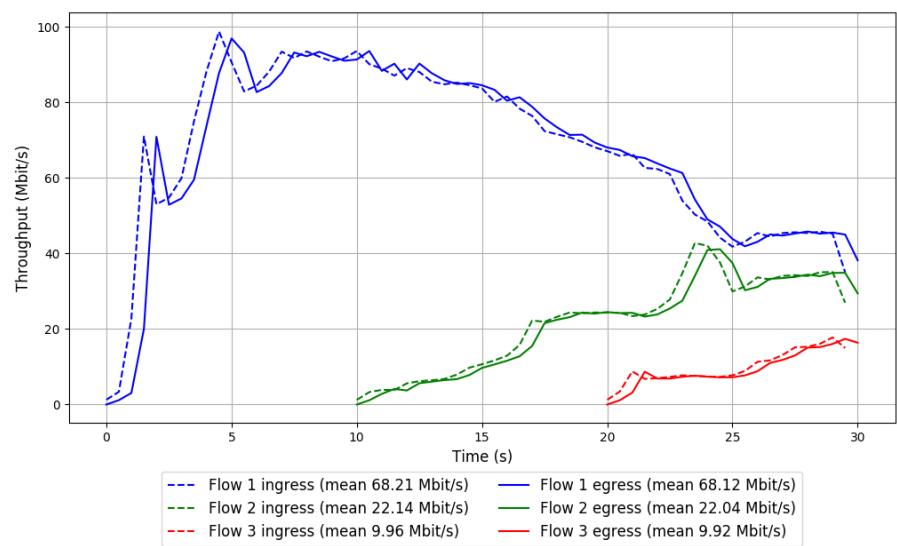
-- Flow 3:

Average throughput: 9.92 Mbit/s

95th percentile per-packet one-way delay: 45.025 ms

Loss rate: 0.32%

Run 7: Report of PCC-Vivace — Data Link

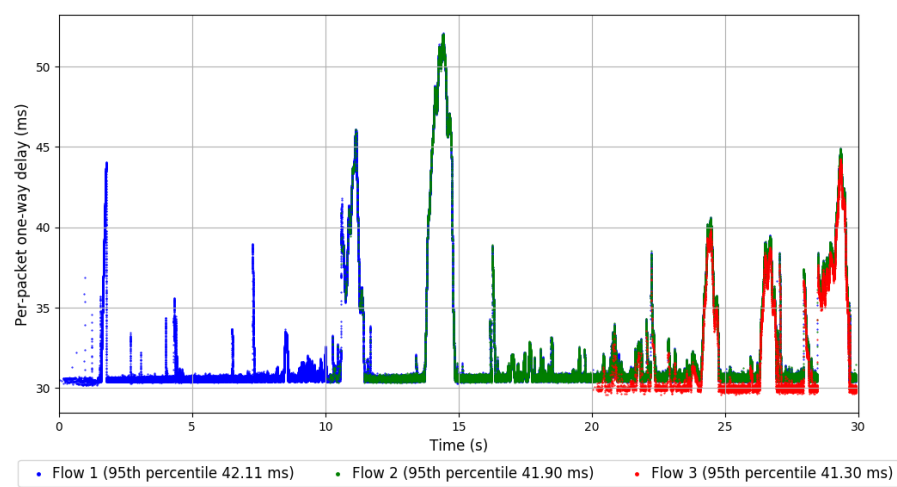
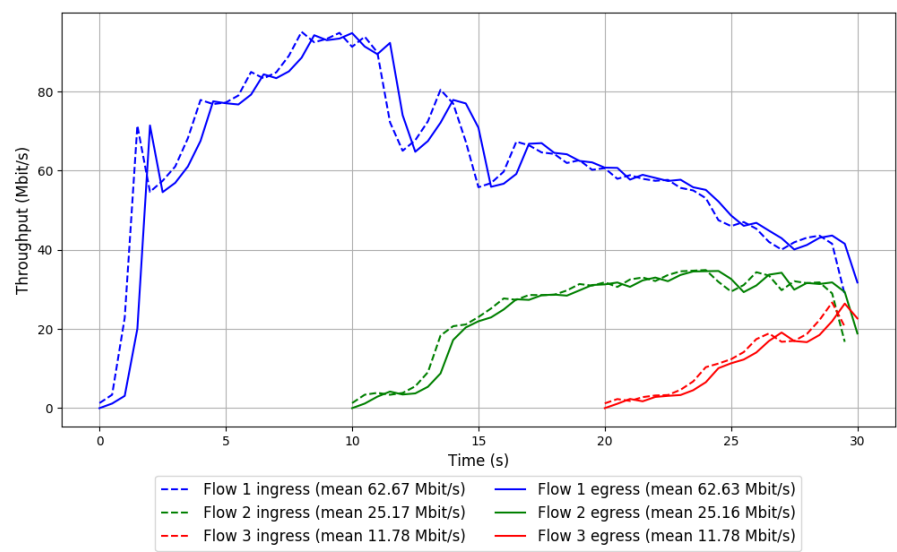


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-05 13:54:39
End at: 2018-06-05 13:55:09
Local clock offset: 0.02 ms
Remote clock offset: -0.217 ms

Below is generated by plot.py at 2018-06-05 15:25:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.25 Mbit/s
95th percentile per-packet one-way delay: 41.925 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 62.63 Mbit/s
95th percentile per-packet one-way delay: 42.107 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 25.16 Mbit/s
95th percentile per-packet one-way delay: 41.898 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 41.298 ms
Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link

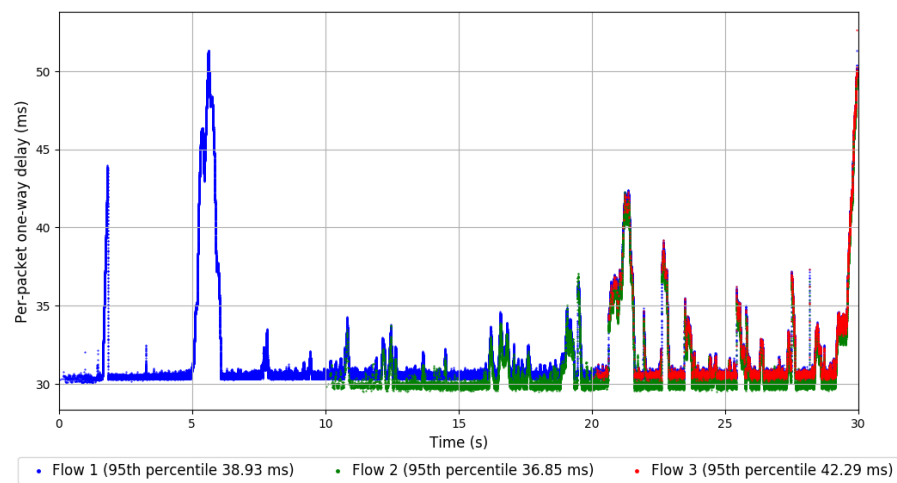
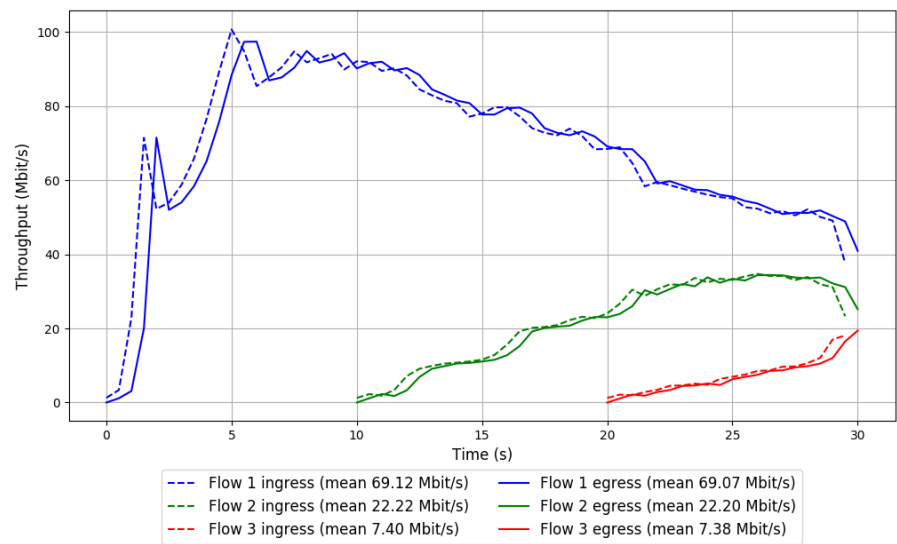


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-05 14:16:20
End at: 2018-06-05 14:16:50
Local clock offset: -0.077 ms
Remote clock offset: -0.475 ms

Below is generated by plot.py at 2018-06-05 15:25:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 38.644 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.07 Mbit/s
95th percentile per-packet one-way delay: 38.929 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.20 Mbit/s
95th percentile per-packet one-way delay: 36.846 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.38 Mbit/s
95th percentile per-packet one-way delay: 42.293 ms
Loss rate: 0.02%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-05 14:37:52

End at: 2018-06-05 14:38:22

Local clock offset: -0.088 ms

Remote clock offset: -1.62 ms

Below is generated by plot.py at 2018-06-05 15:25:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.12 Mbit/s

95th percentile per-packet one-way delay: 40.008 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 64.66 Mbit/s

95th percentile per-packet one-way delay: 40.697 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 22.82 Mbit/s

95th percentile per-packet one-way delay: 39.203 ms

Loss rate: 0.06%

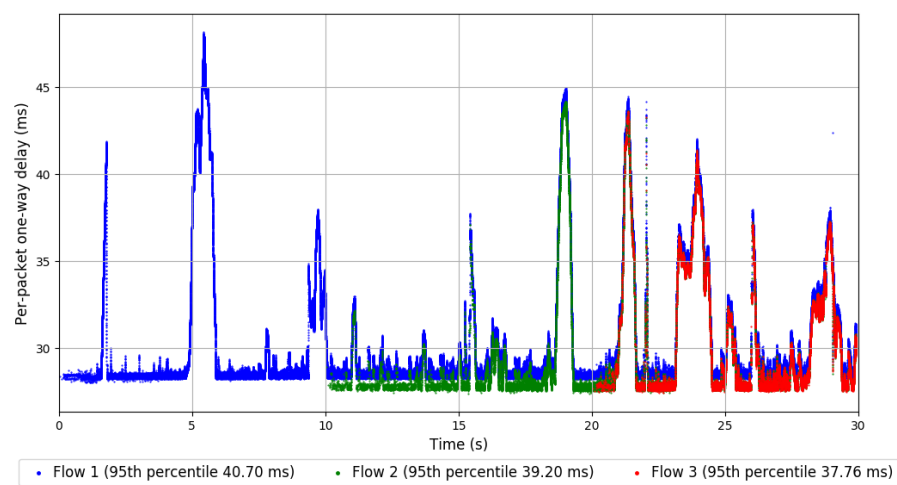
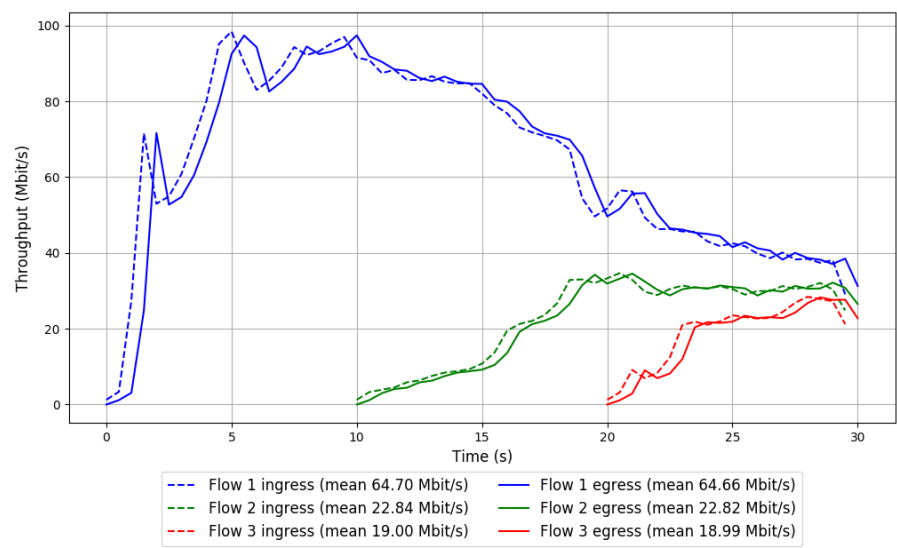
-- Flow 3:

Average throughput: 18.99 Mbit/s

95th percentile per-packet one-way delay: 37.755 ms

Loss rate: 0.04%

Run 10: Report of PCC-Vivace — Data Link

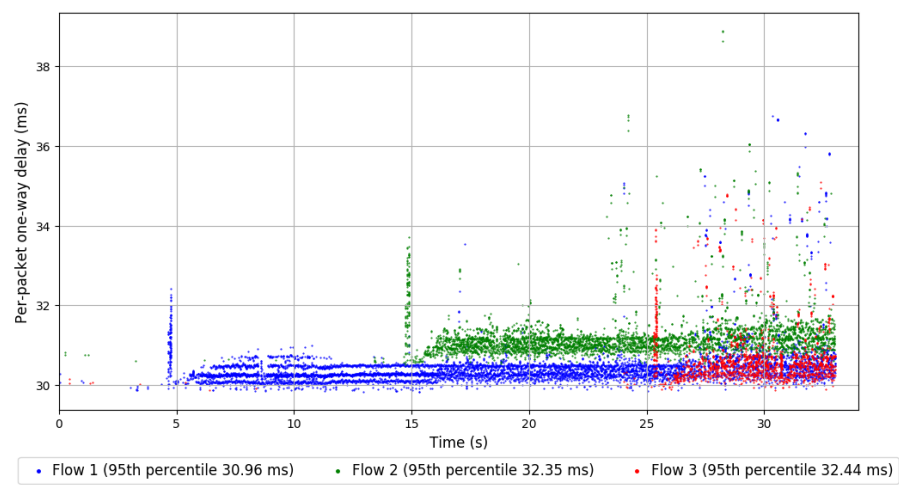
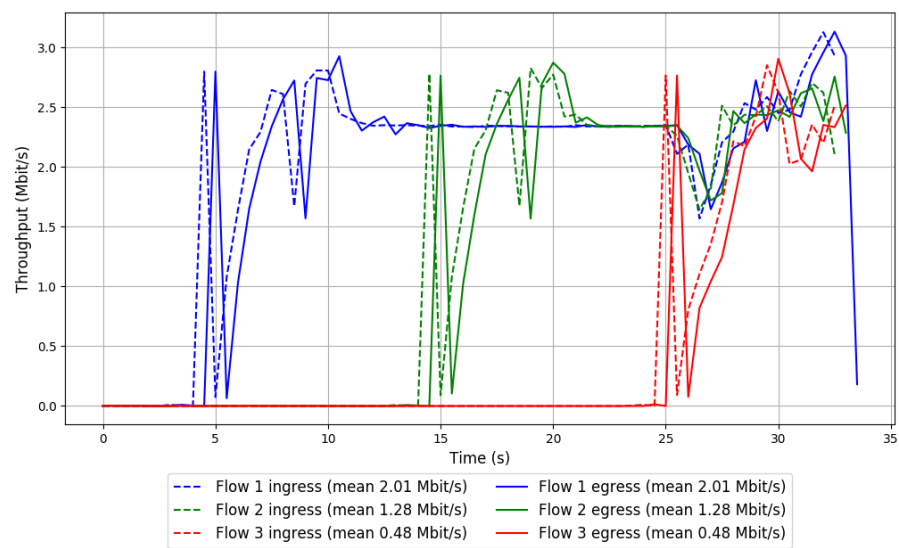


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-05 11:43:02
End at: 2018-06-05 11:43:32
Local clock offset: 0.278 ms
Remote clock offset: 0.582 ms

# Below is generated by plot.py at 2018-06-05 15:25:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 31.781 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 30.956 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 32.354 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 32.438 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-05 12:04:29

End at: 2018-06-05 12:04:59

Local clock offset: 0.297 ms

Remote clock offset: 1.125 ms

Below is generated by plot.py at 2018-06-05 15:25:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 32.473 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 31.180 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 32.888 ms

Loss rate: 0.00%

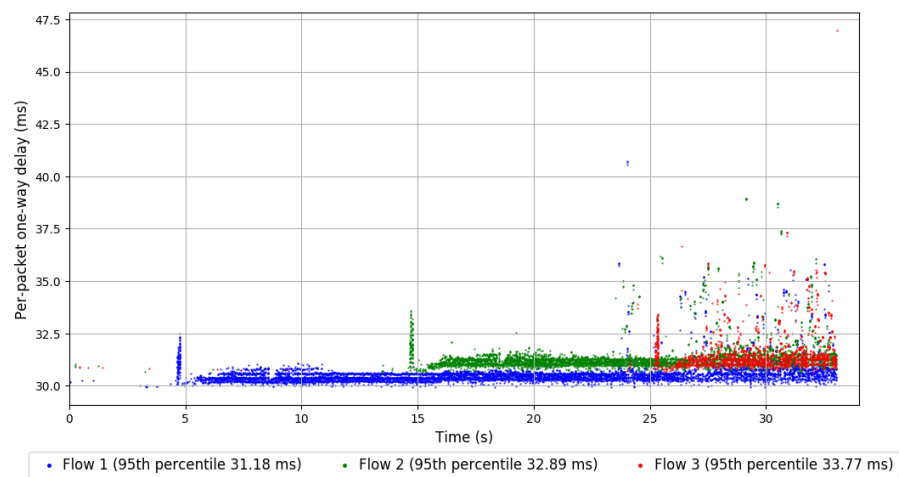
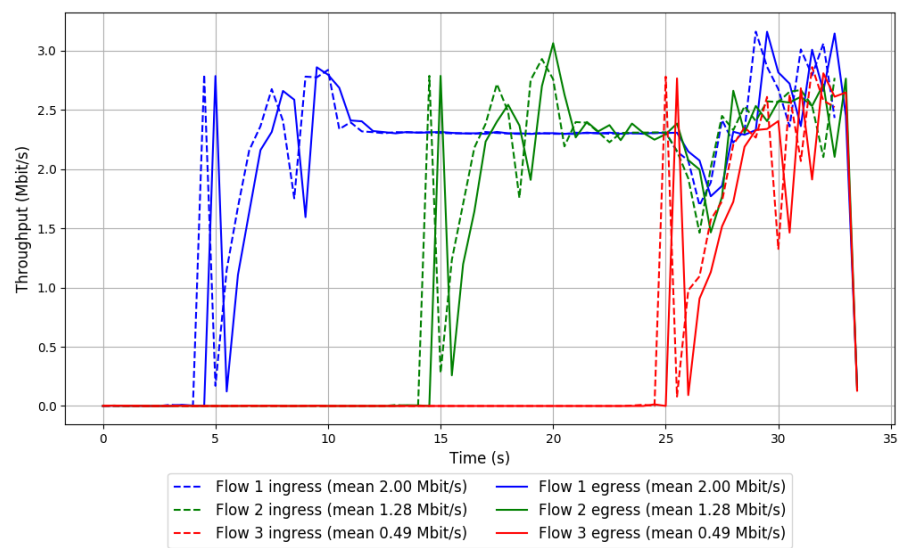
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 33.769 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

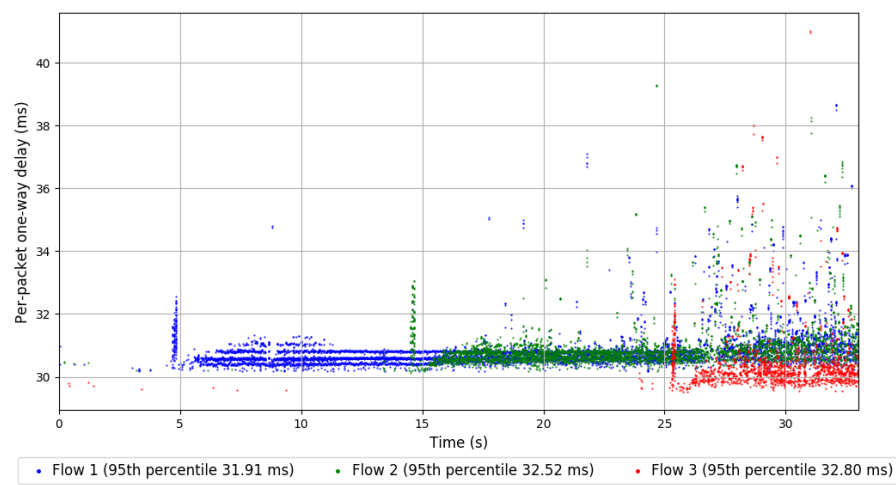
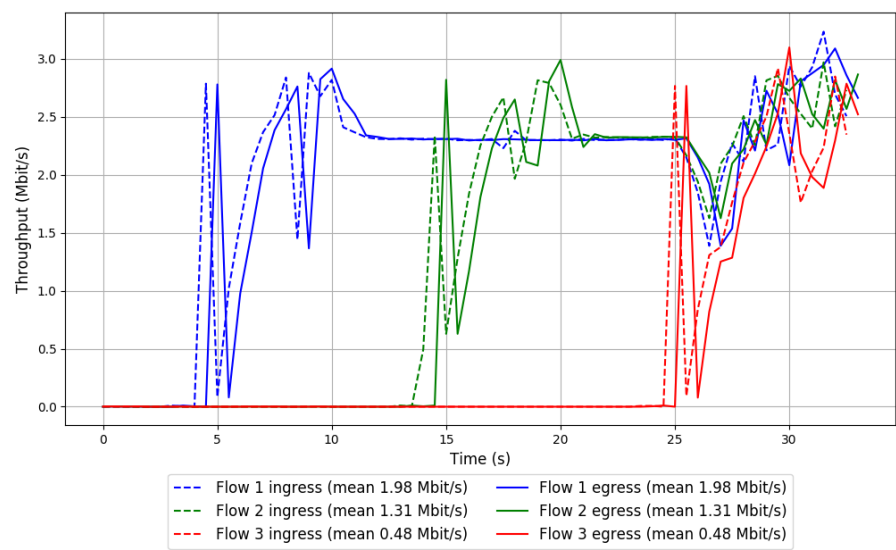


Run 3: Statistics of WebRTC media

Start at: 2018-06-05 12:26:02
End at: 2018-06-05 12:26:32
Local clock offset: -0.156 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-06-05 15:25:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.76 Mbit/s
95th percentile per-packet one-way delay: 32.228 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 31.914 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 32.515 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 32.798 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

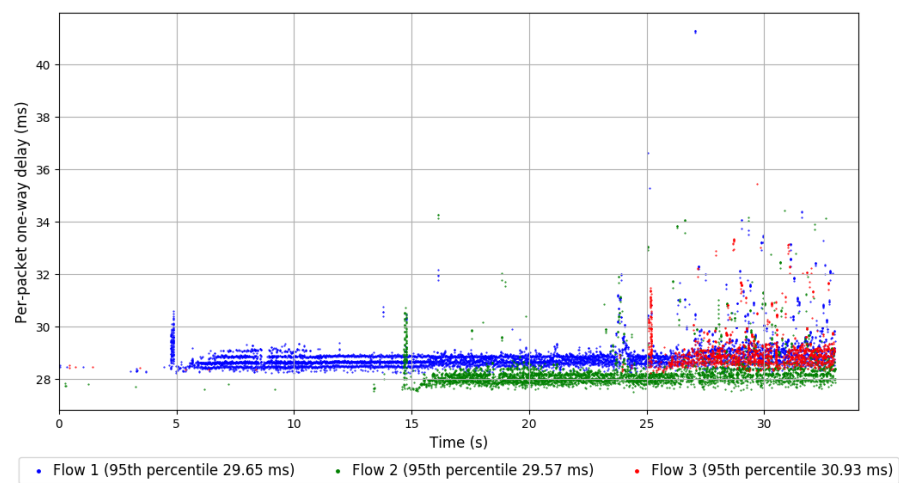
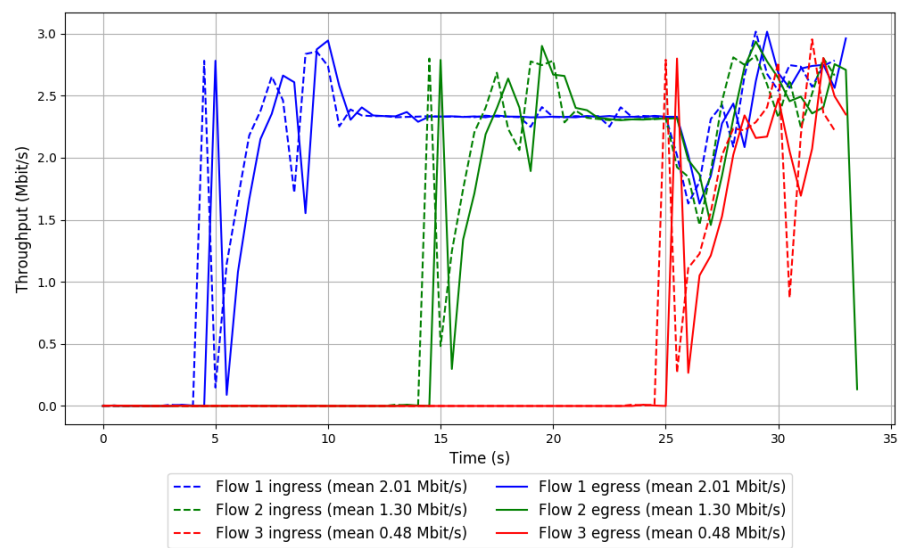


Run 4: Statistics of WebRTC media

Start at: 2018-06-05 12:47:35
End at: 2018-06-05 12:48:05
Local clock offset: 0.108 ms
Remote clock offset: -2.076 ms

Below is generated by plot.py at 2018-06-05 15:25:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.77 Mbit/s
95th percentile per-packet one-way delay: 29.834 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 29.648 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 29.565 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 30.934 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

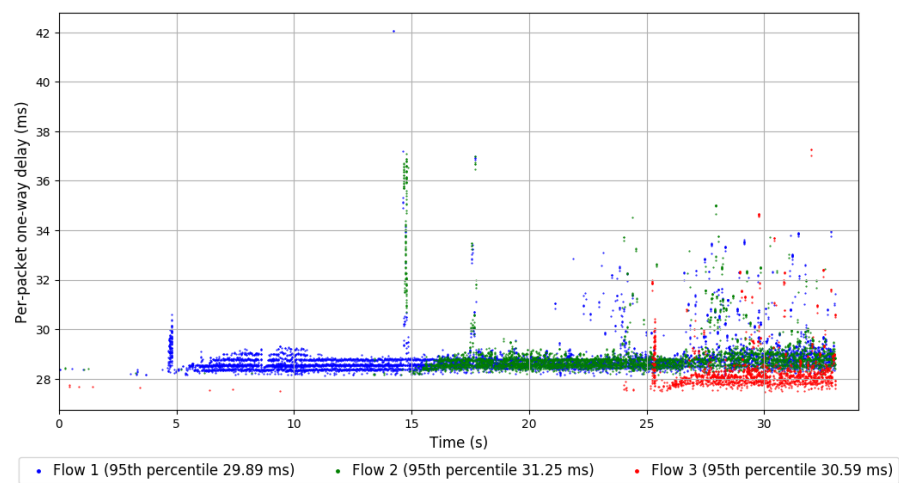
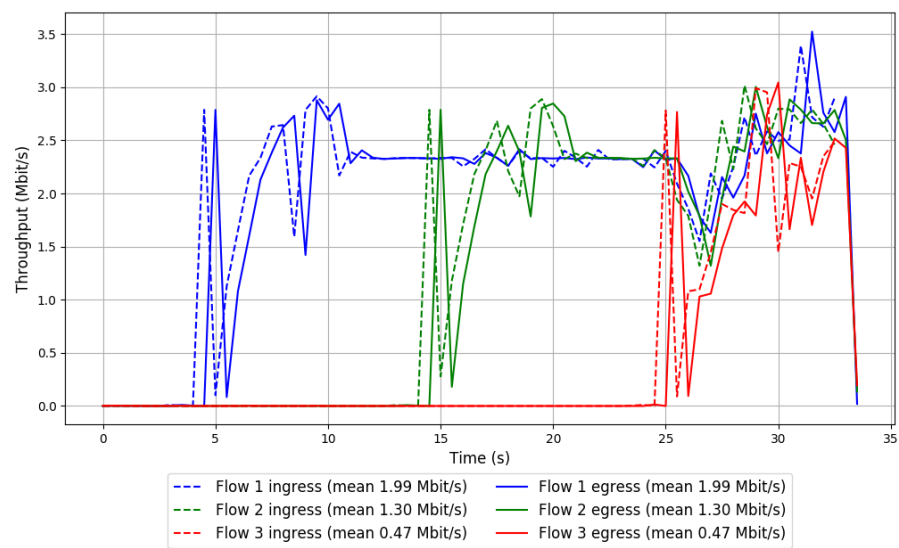


Run 5: Statistics of WebRTC media

Start at: 2018-06-05 13:09:05
End at: 2018-06-05 13:09:35
Local clock offset: 0.113 ms
Remote clock offset: -2.084 ms

Below is generated by plot.py at 2018-06-05 15:25:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 30.477 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 29.893 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 31.248 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 30.590 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

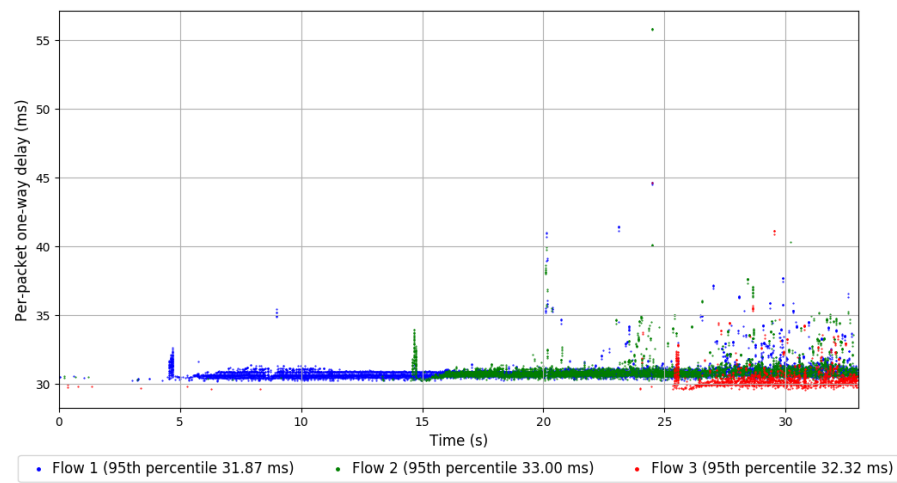
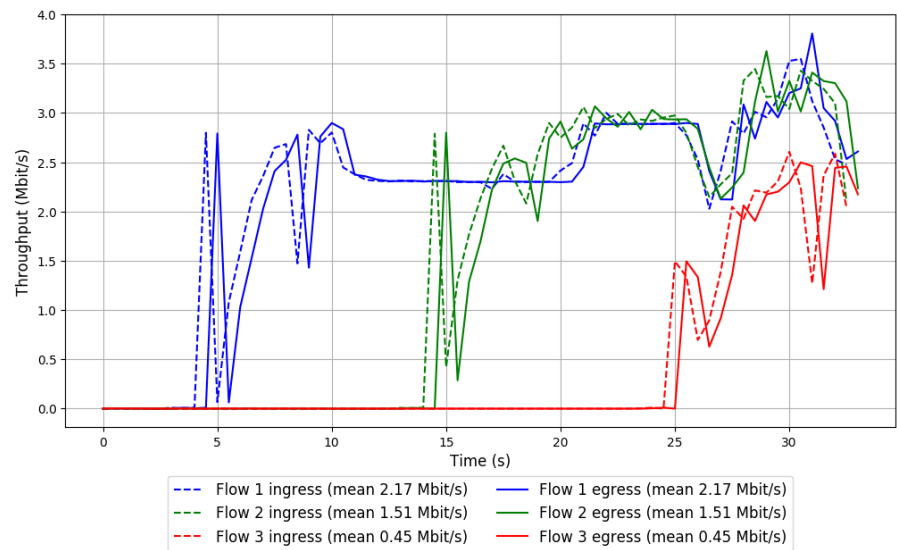


Run 6: Statistics of WebRTC media

Start at: 2018-06-05 13:30:38
End at: 2018-06-05 13:31:08
Local clock offset: -0.053 ms
Remote clock offset: -0.195 ms

Below is generated by plot.py at 2018-06-05 15:25:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 32.288 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 31.866 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 33.001 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 32.319 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

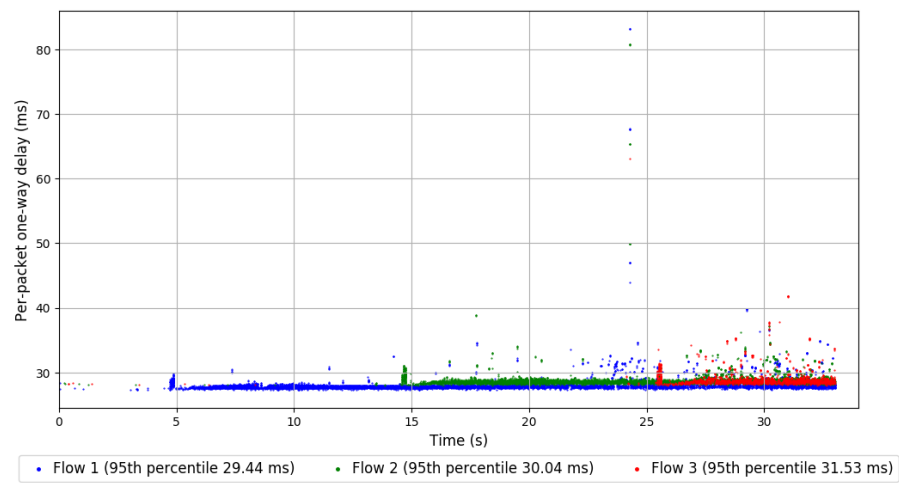
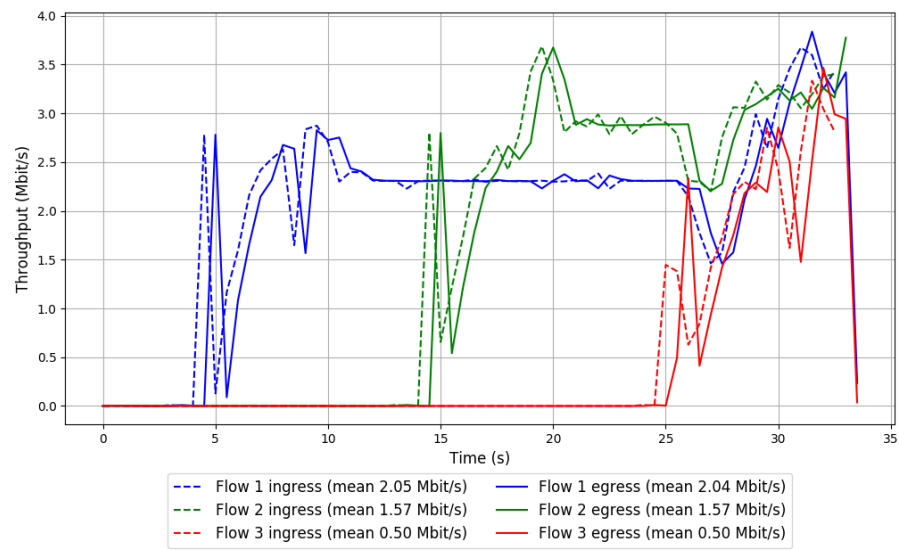


Run 7: Statistics of WebRTC media

Start at: 2018-06-05 13:52:03
End at: 2018-06-05 13:52:33
Local clock offset: 0.02 ms
Remote clock offset: -2.346 ms

Below is generated by plot.py at 2018-06-05 15:25:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 30.104 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 29.441 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 30.038 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 31.533 ms
Loss rate: 0.06%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-05 14:13:42

End at: 2018-06-05 14:14:12

Local clock offset: -0.049 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-06-05 15:25:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 32.437 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 31.955 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 32.854 ms

Loss rate: 0.00%

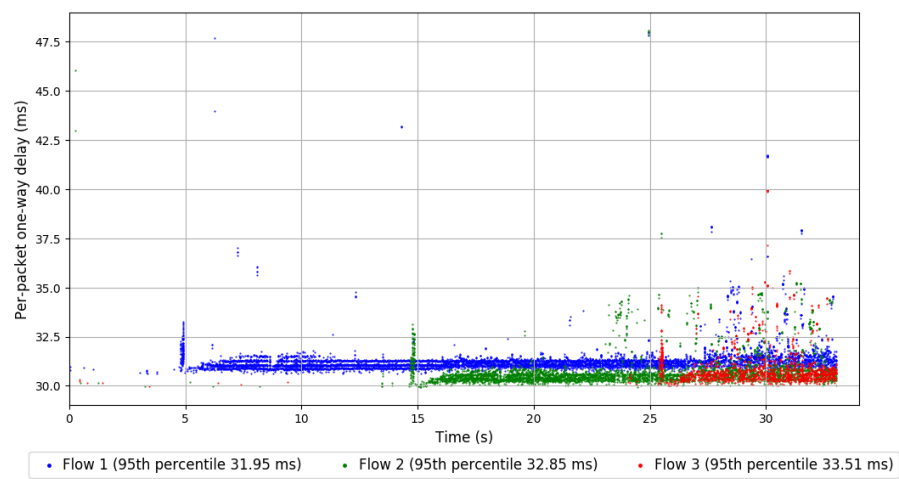
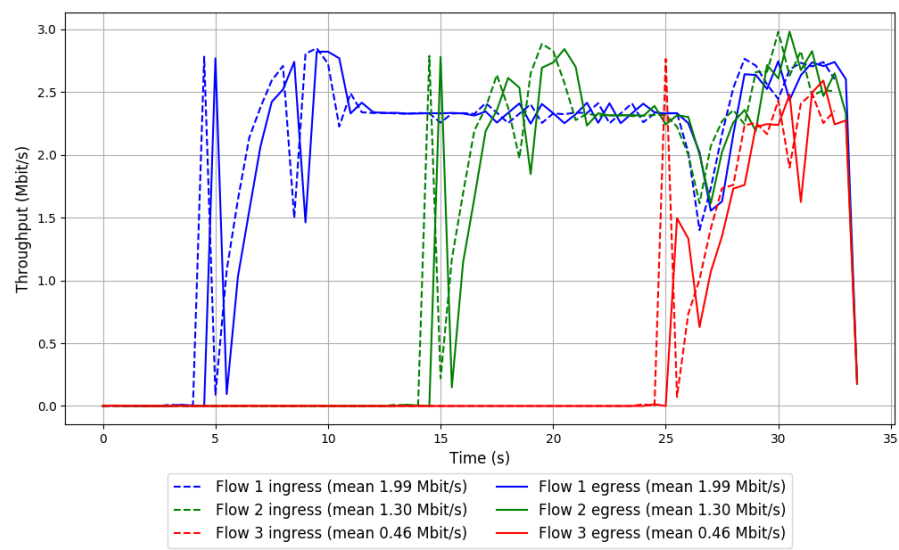
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 33.510 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-05 14:35:15

End at: 2018-06-05 14:35:45

Local clock offset: -0.195 ms

Remote clock offset: 0.401 ms

Below is generated by plot.py at 2018-06-05 15:25:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 32.436 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 31.922 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 32.601 ms

Loss rate: 0.14%

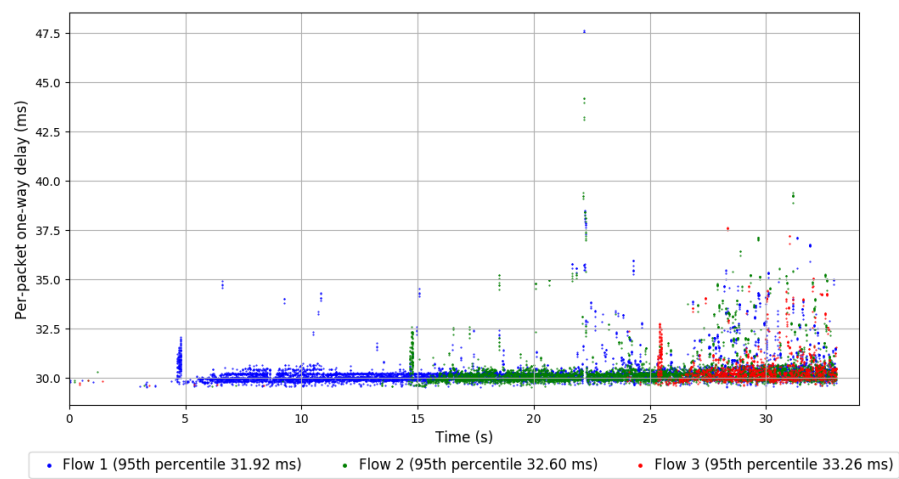
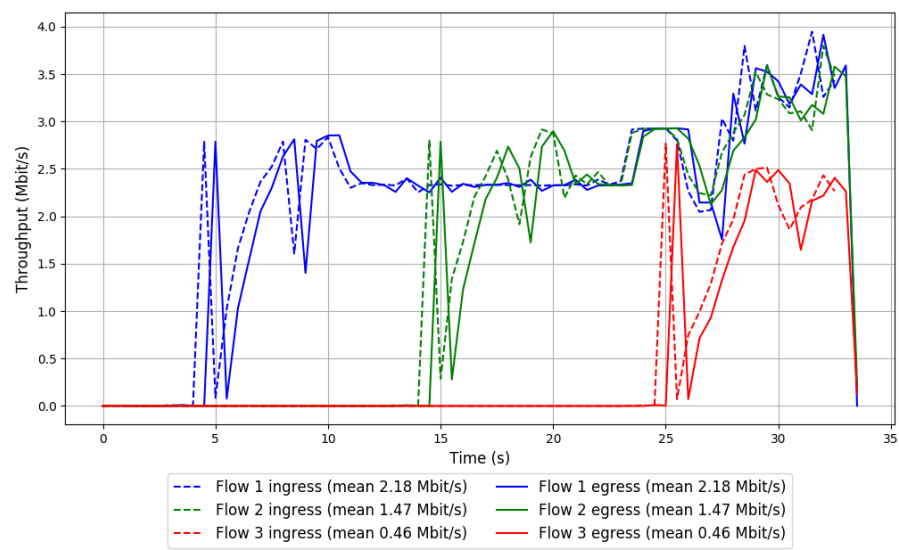
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 33.255 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-05 14:56:47

End at: 2018-06-05 14:57:17

Local clock offset: -0.069 ms

Remote clock offset: 0.745 ms

Below is generated by plot.py at 2018-06-05 15:25:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 32.284 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 32.160 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 32.004 ms

Loss rate: 0.13%

-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 33.032 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

