

Pantheon Report

Generated at 2018-07-24 18:04:34 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

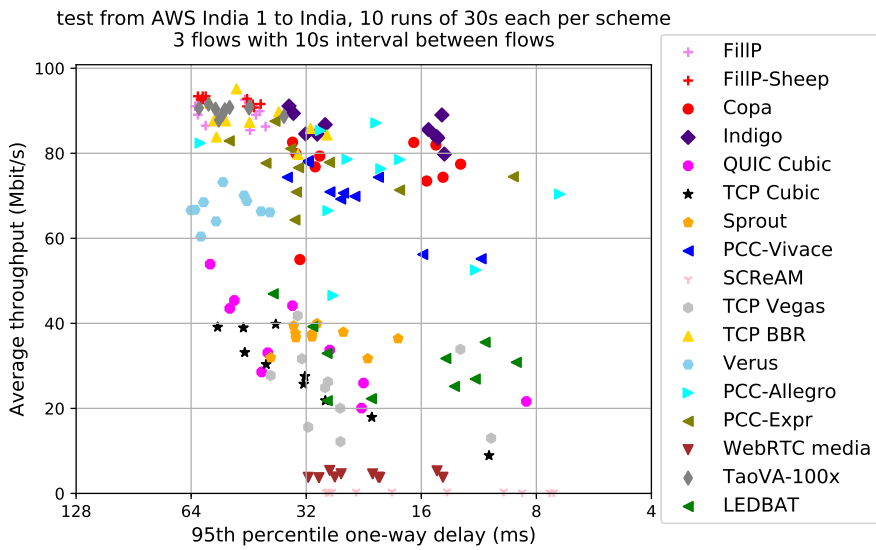
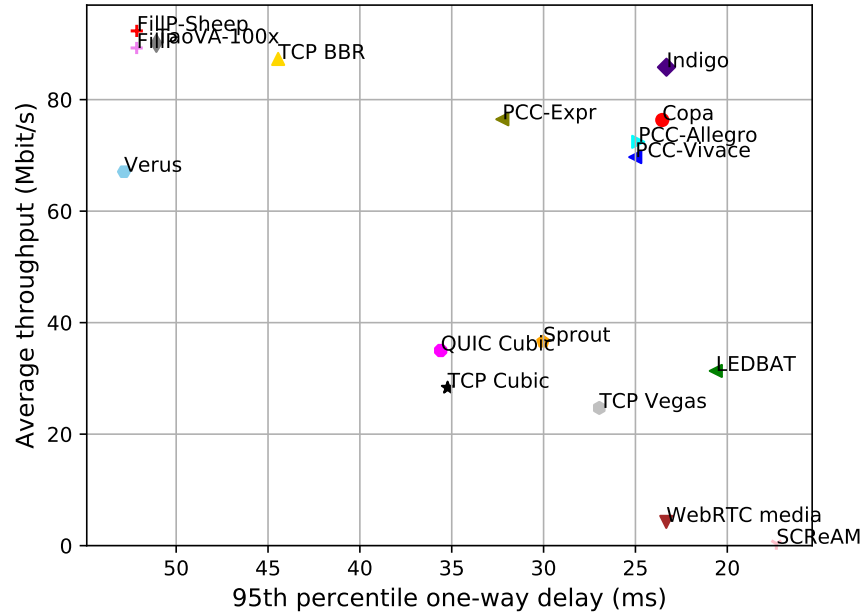
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

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

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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	57.93	32.73	23.58	43.05	45.75	46.36	10.36	11.07	11.82
Copa	10	46.38	31.90	26.32	24.46	22.63	23.28	8.24	8.77	9.37
TCP Cubic	10	15.57	13.07	12.16	32.14	34.57	33.68	1.01	0.87	1.46
FillP	10	55.70	37.17	27.03	50.87	53.17	53.48	23.95	31.30	33.06
FillP-Sheep	10	54.56	39.18	35.55	50.46	53.06	53.91	18.42	25.29	31.69
Indigo	10	51.02	36.88	31.93	22.58	23.87	25.62	10.53	12.55	13.61
LEDBAT	10	18.68	13.30	12.50	20.07	21.14	21.00	0.46	0.67	0.89
PCC-Allegro	10	58.16	17.19	8.66	24.41	25.21	26.90	7.03	7.44	8.01
PCC-Expr	10	60.35	18.07	12.46	31.67	33.18	33.00	8.61	7.55	6.95
QUIC Cubic	10	18.80	16.40	16.06	38.20	26.83	30.76	2.21	2.08	2.00
SCReAM	10	0.18	0.17	0.19	17.28	17.09	17.05	0.47	0.63	0.60
Sprout	10	18.60	18.23	17.77	29.57	30.09	31.31	2.27	2.76	3.55
TaoVA-100x	10	54.50	37.36	32.17	47.59	52.19	54.91	12.64	17.46	21.20
TCP Vegas	10	13.25	10.97	12.48	27.10	23.44	29.62	1.42	1.09	1.27
Verus	10	43.09	28.33	18.92	48.47	55.60	54.18	24.72	50.00	40.36
PCC-Vivace	10	49.79	23.51	12.95	25.04	24.95	27.95	5.87	6.18	6.43
WebRTC media	10	2.35	1.44	0.48	23.45	23.01	23.61	0.60	0.70	0.59

Run 1: Statistics of TCP BBR

Start at: 2018-07-24 14:34:46

End at: 2018-07-24 14:35:16

Local clock offset: 3.605 ms

Remote clock offset: 4.837 ms

Below is generated by plot.py at 2018-07-24 17:45:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.62 Mbit/s

95th percentile per-packet one-way delay: 51.987 ms

Loss rate: 11.70%

-- Flow 1:

Average throughput: 63.17 Mbit/s

95th percentile per-packet one-way delay: 51.174 ms

Loss rate: 11.42%

-- Flow 2:

Average throughput: 25.52 Mbit/s

95th percentile per-packet one-way delay: 52.937 ms

Loss rate: 12.30%

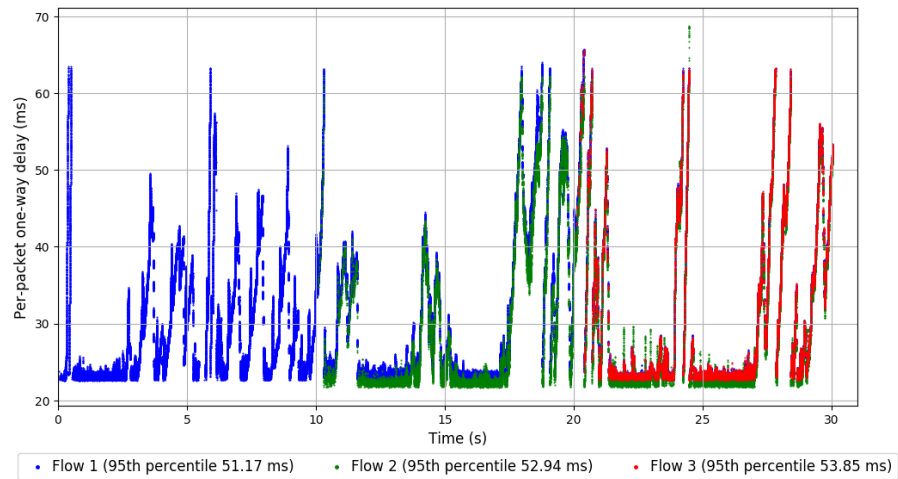
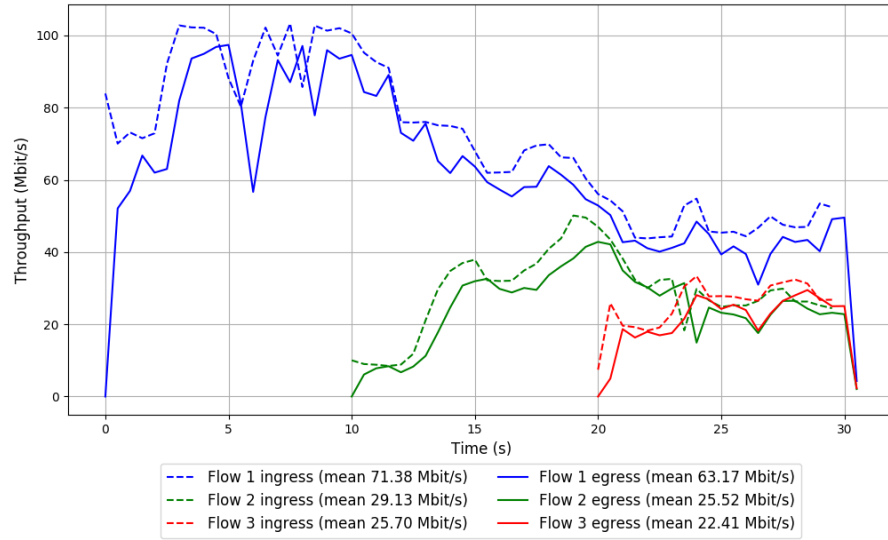
-- Flow 3:

Average throughput: 22.41 Mbit/s

95th percentile per-packet one-way delay: 53.847 ms

Loss rate: 12.70%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-24 14:54:31

End at: 2018-07-24 14:55:01

Local clock offset: 4.129 ms

Remote clock offset: 0.419 ms

Below is generated by plot.py at 2018-07-24 17:45:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 45.013 ms

Loss rate: 10.24%

-- Flow 1:

Average throughput: 63.22 Mbit/s

95th percentile per-packet one-way delay: 43.327 ms

Loss rate: 10.32%

-- Flow 2:

Average throughput: 26.11 Mbit/s

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

Loss rate: 9.91%

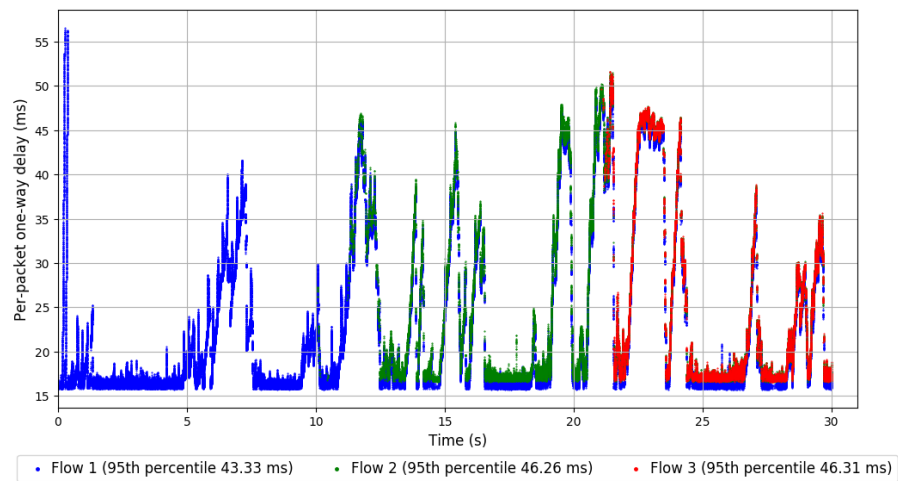
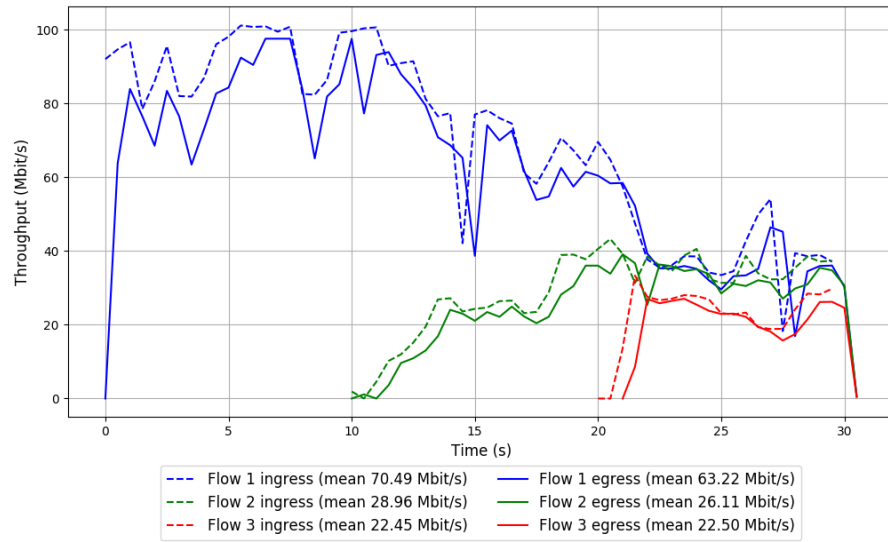
-- Flow 3:

Average throughput: 22.50 Mbit/s

95th percentile per-packet one-way delay: 46.310 ms

Loss rate: 10.28%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-24 15:14:30

End at: 2018-07-24 15:15:00

Local clock offset: 3.045 ms

Remote clock offset: 6.019 ms

Below is generated by plot.py at 2018-07-24 17:45:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.64 Mbit/s

95th percentile per-packet one-way delay: 55.795 ms

Loss rate: 8.83%

-- Flow 1:

Average throughput: 61.84 Mbit/s

95th percentile per-packet one-way delay: 55.316 ms

Loss rate: 8.86%

-- Flow 2:

Average throughput: 32.88 Mbit/s

95th percentile per-packet one-way delay: 56.506 ms

Loss rate: 8.56%

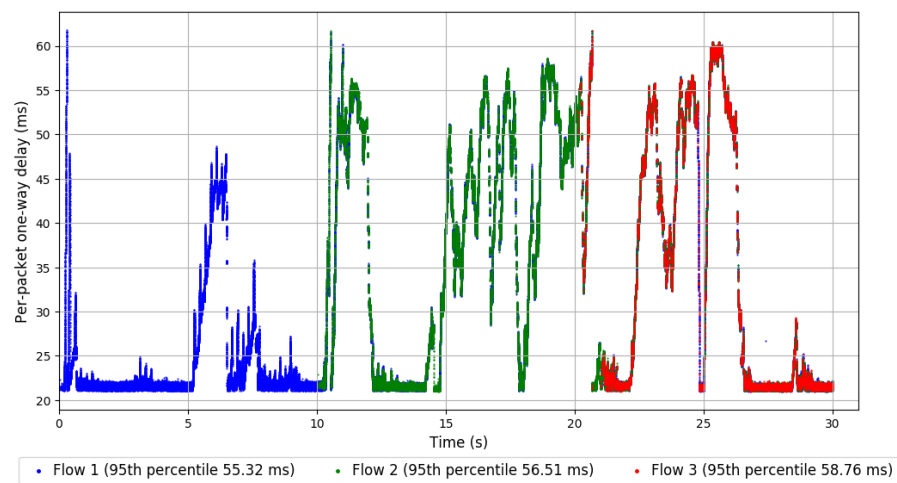
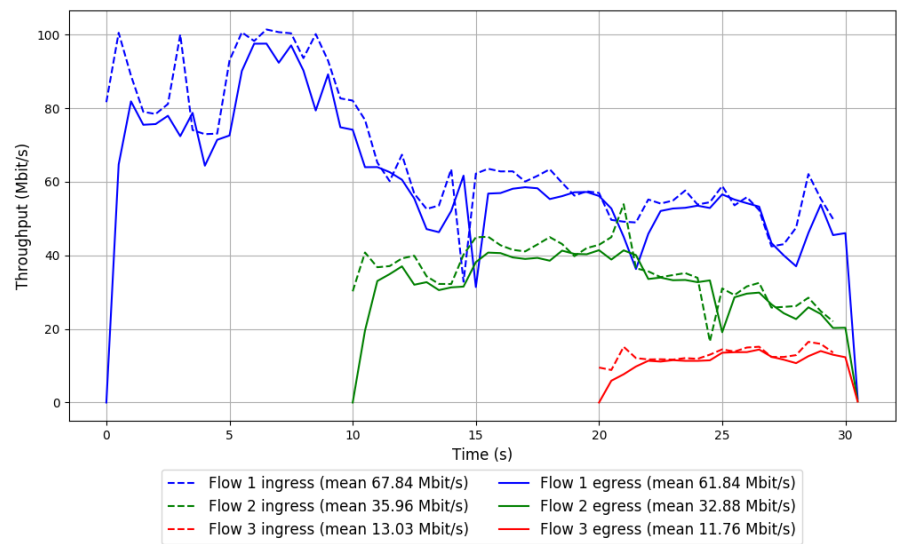
-- Flow 3:

Average throughput: 11.76 Mbit/s

95th percentile per-packet one-way delay: 58.763 ms

Loss rate: 9.99%

Run 3: Report of TCP BBR — Data Link

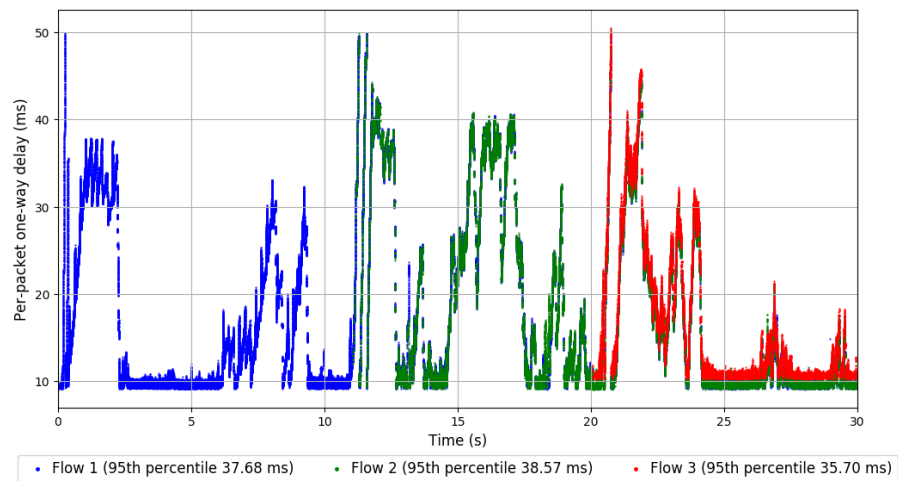
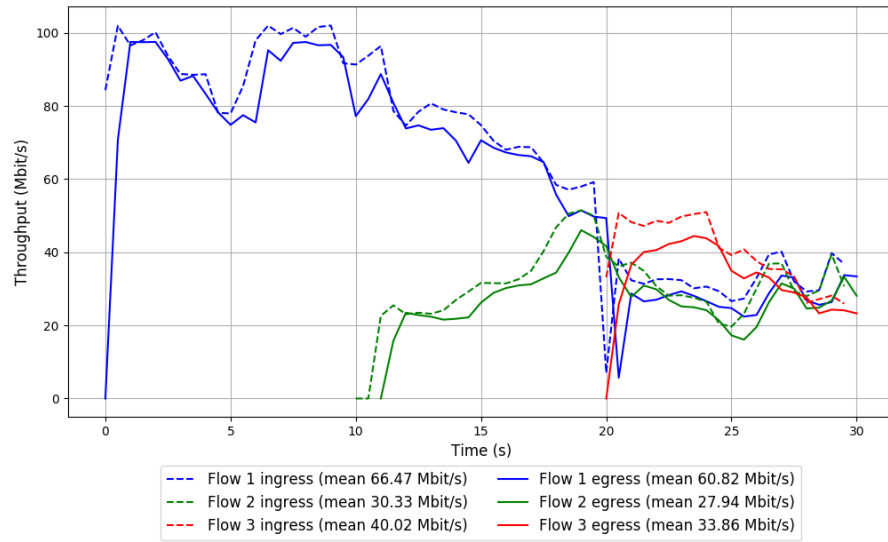


Run 4: Statistics of TCP BBR

Start at: 2018-07-24 15:34:42
End at: 2018-07-24 15:35:12
Local clock offset: -1.625 ms
Remote clock offset: -4.783 ms

Below is generated by plot.py at 2018-07-24 17:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.75 Mbit/s
95th percentile per-packet one-way delay: 37.765 ms
Loss rate: 10.24%
-- Flow 1:
Average throughput: 60.82 Mbit/s
95th percentile per-packet one-way delay: 37.683 ms
Loss rate: 8.50%
-- Flow 2:
Average throughput: 27.94 Mbit/s
95th percentile per-packet one-way delay: 38.570 ms
Loss rate: 12.58%
-- Flow 3:
Average throughput: 33.86 Mbit/s
95th percentile per-packet one-way delay: 35.702 ms
Loss rate: 15.40%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-24 15:55:12

End at: 2018-07-24 15:55:42

Local clock offset: 1.754 ms

Remote clock offset: 6.475 ms

Below is generated by plot.py at 2018-07-24 17:46:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 48.695 ms

Loss rate: 6.50%

-- Flow 1:

Average throughput: 58.30 Mbit/s

95th percentile per-packet one-way delay: 48.236 ms

Loss rate: 6.22%

-- Flow 2:

Average throughput: 47.65 Mbit/s

95th percentile per-packet one-way delay: 48.798 ms

Loss rate: 7.03%

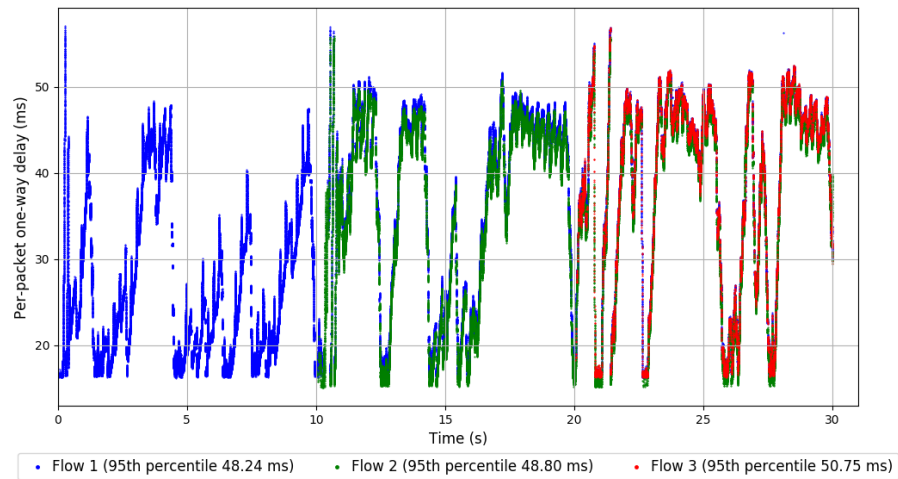
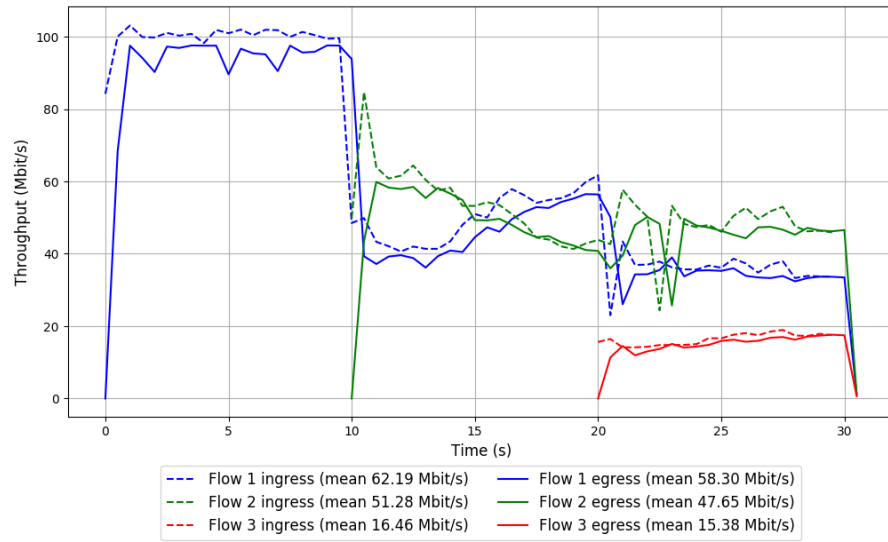
-- Flow 3:

Average throughput: 15.38 Mbit/s

95th percentile per-packet one-way delay: 50.749 ms

Loss rate: 6.46%

Run 5: Report of TCP BBR — Data Link

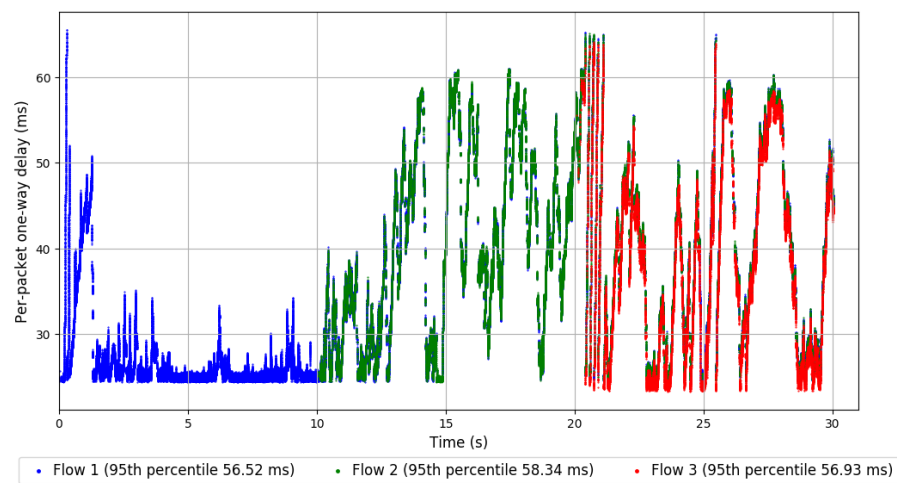
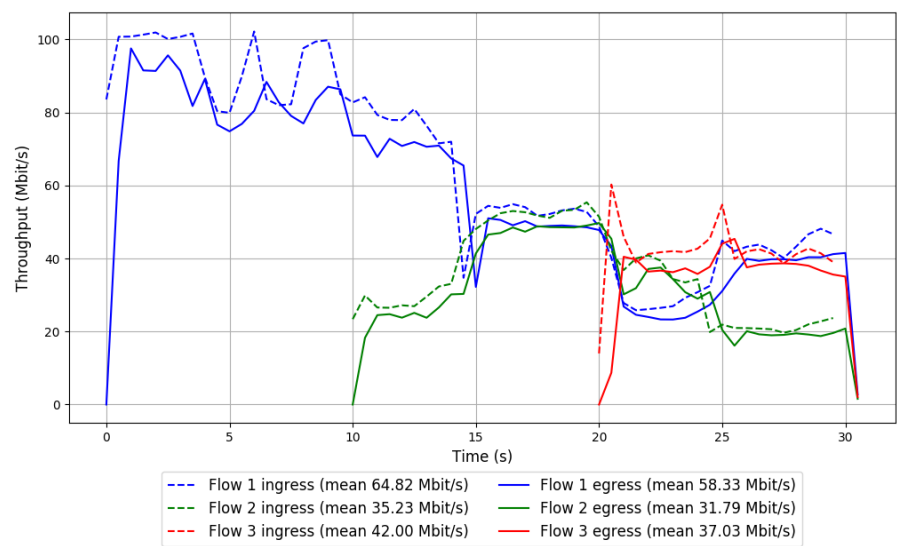


Run 6: Statistics of TCP BBR

Start at: 2018-07-24 16:15:22
End at: 2018-07-24 16:15:52
Local clock offset: 2.51 ms
Remote clock offset: 17.008 ms

Below is generated by plot.py at 2018-07-24 17:46:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.80 Mbit/s
95th percentile per-packet one-way delay: 57.227 ms
Loss rate: 10.16%
-- Flow 1:
Average throughput: 58.33 Mbit/s
95th percentile per-packet one-way delay: 56.524 ms
Loss rate: 9.96%
-- Flow 2:
Average throughput: 31.79 Mbit/s
95th percentile per-packet one-way delay: 58.343 ms
Loss rate: 9.68%
-- Flow 3:
Average throughput: 37.03 Mbit/s
95th percentile per-packet one-way delay: 56.928 ms
Loss rate: 11.94%

Run 6: Report of TCP BBR — Data Link

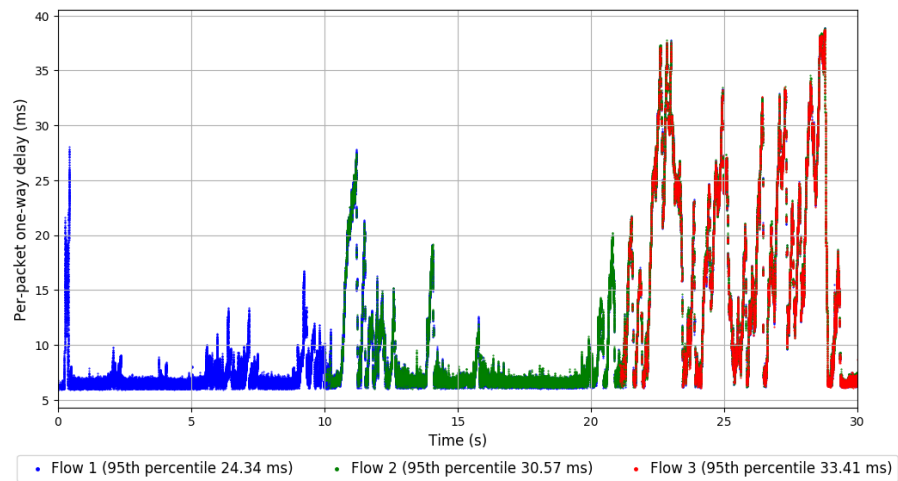
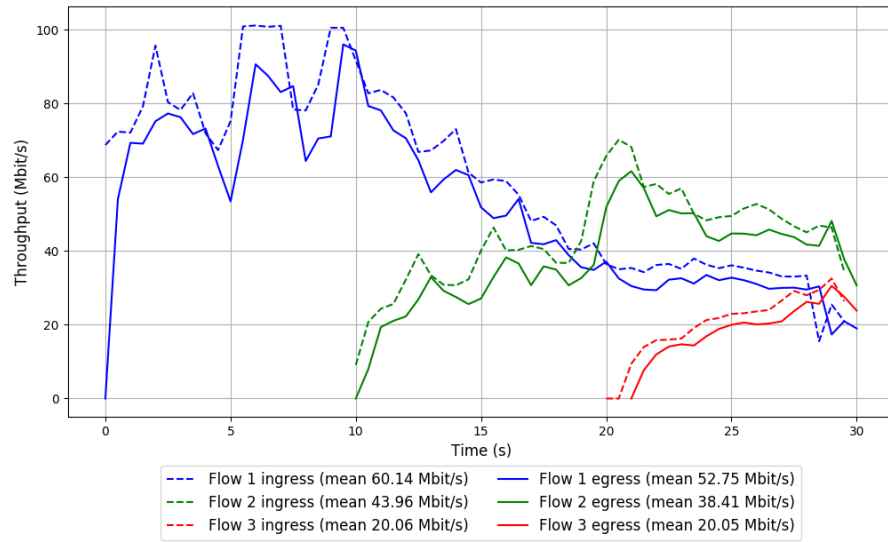


Run 7: Statistics of TCP BBR

Start at: 2018-07-24 16:35:13
End at: 2018-07-24 16:35:43
Local clock offset: 0.636 ms
Remote clock offset: -4.173 ms

Below is generated by plot.py at 2018-07-24 17:46:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.31 Mbit/s
95th percentile per-packet one-way delay: 28.229 ms
Loss rate: 12.26%
-- Flow 1:
Average throughput: 52.75 Mbit/s
95th percentile per-packet one-way delay: 24.341 ms
Loss rate: 12.29%
-- Flow 2:
Average throughput: 38.41 Mbit/s
95th percentile per-packet one-way delay: 30.571 ms
Loss rate: 12.62%
-- Flow 3:
Average throughput: 20.05 Mbit/s
95th percentile per-packet one-way delay: 33.405 ms
Loss rate: 10.39%

Run 7: Report of TCP BBR — Data Link

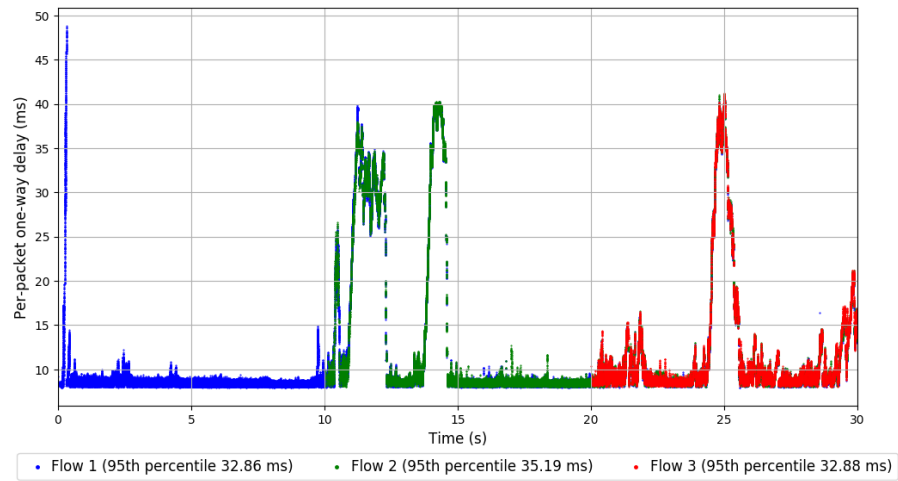
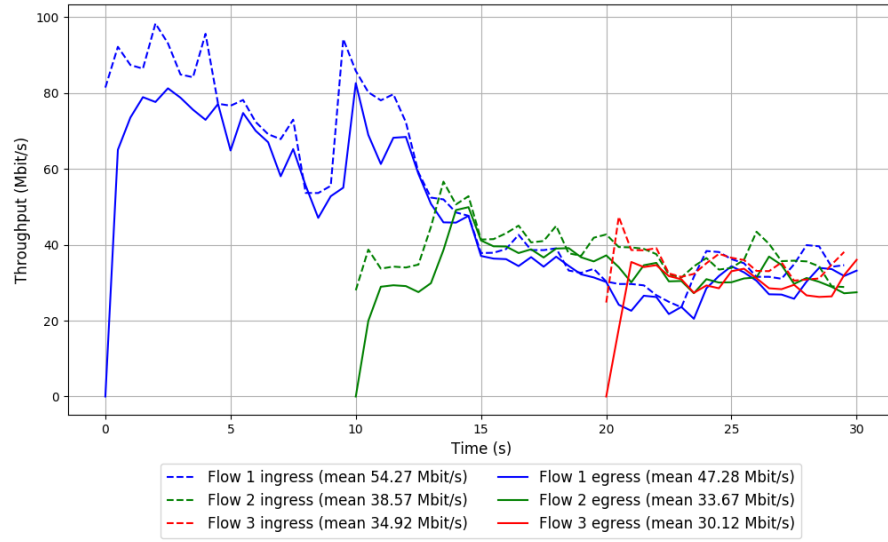


Run 8: Statistics of TCP BBR

Start at: 2018-07-24 16:55:32
End at: 2018-07-24 16:56:02
Local clock offset: -0.168 ms
Remote clock offset: -5.941 ms

Below is generated by plot.py at 2018-07-24 17:46:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.75 Mbit/s
95th percentile per-packet one-way delay: 33.632 ms
Loss rate: 12.93%
-- Flow 1:
Average throughput: 47.28 Mbit/s
95th percentile per-packet one-way delay: 32.860 ms
Loss rate: 12.88%
-- Flow 2:
Average throughput: 33.67 Mbit/s
95th percentile per-packet one-way delay: 35.192 ms
Loss rate: 12.69%
-- Flow 3:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 32.875 ms
Loss rate: 13.70%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-24 17:15:23

End at: 2018-07-24 17:15:53

Local clock offset: -1.967 ms

Remote clock offset: 5.52 ms

Below is generated by plot.py at 2018-07-24 17:46:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.84 Mbit/s

95th percentile per-packet one-way delay: 54.954 ms

Loss rate: 11.61%

-- Flow 1:

Average throughput: 49.49 Mbit/s

95th percentile per-packet one-way delay: 51.069 ms

Loss rate: 10.65%

-- Flow 2:

Average throughput: 34.98 Mbit/s

95th percentile per-packet one-way delay: 56.640 ms

Loss rate: 12.53%

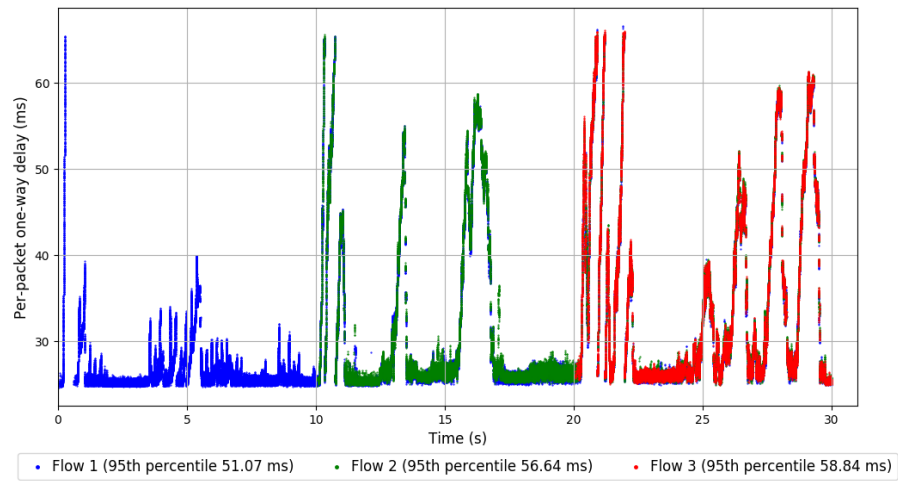
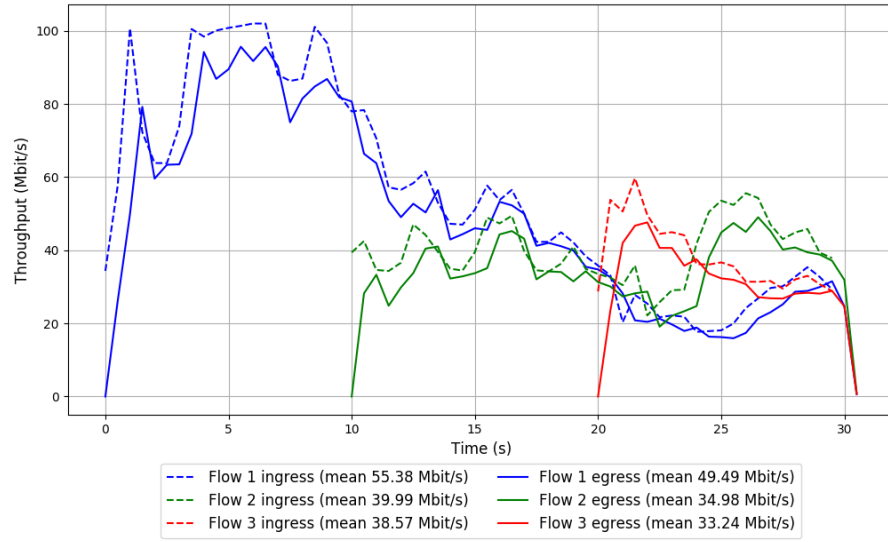
-- Flow 3:

Average throughput: 33.24 Mbit/s

95th percentile per-packet one-way delay: 58.837 ms

Loss rate: 13.83%

Run 9: Report of TCP BBR — Data Link

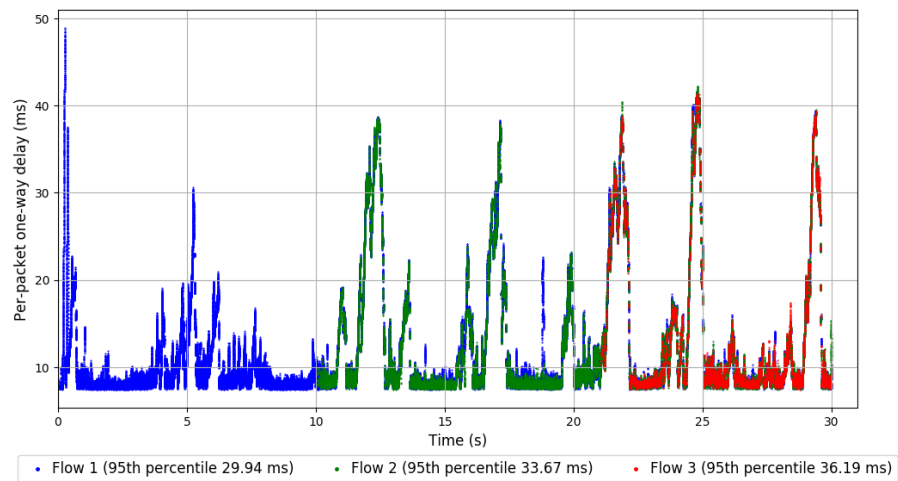
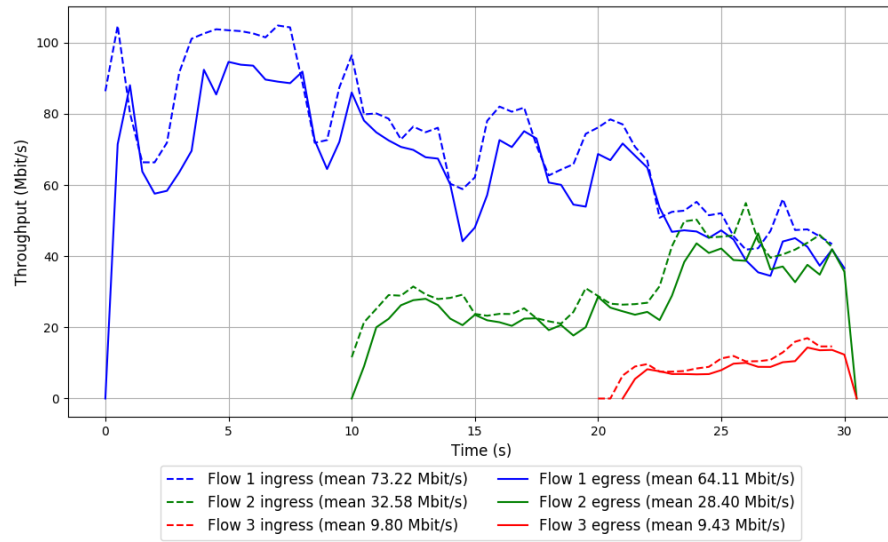


Run 10: Statistics of TCP BBR

Start at: 2018-07-24 17:35:06
End at: 2018-07-24 17:35:36
Local clock offset: 1.47 ms
Remote clock offset: -10.335 ms

Below is generated by plot.py at 2018-07-24 17:46:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.84 Mbit/s
95th percentile per-packet one-way delay: 31.185 ms
Loss rate: 12.57%
-- Flow 1:
Average throughput: 64.11 Mbit/s
95th percentile per-packet one-way delay: 29.941 ms
Loss rate: 12.45%
-- Flow 2:
Average throughput: 28.40 Mbit/s
95th percentile per-packet one-way delay: 33.672 ms
Loss rate: 12.84%
-- Flow 3:
Average throughput: 9.43 Mbit/s
95th percentile per-packet one-way delay: 36.189 ms
Loss rate: 13.54%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-24 14:38:17

End at: 2018-07-24 14:38:47

Local clock offset: 3.133 ms

Remote clock offset: 8.694 ms

Below is generated by plot.py at 2018-07-24 17:47:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.61 Mbit/s

95th percentile per-packet one-way delay: 34.745 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 34.865 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 32.79 Mbit/s

95th percentile per-packet one-way delay: 34.081 ms

Loss rate: 1.53%

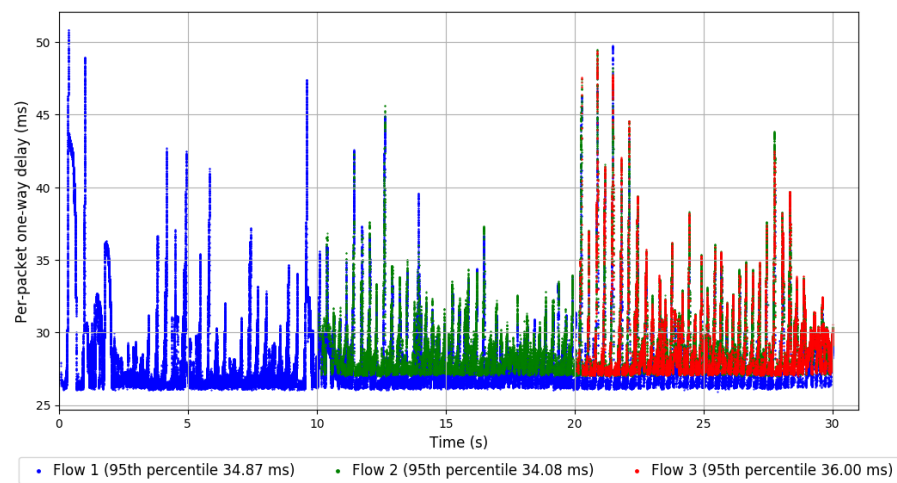
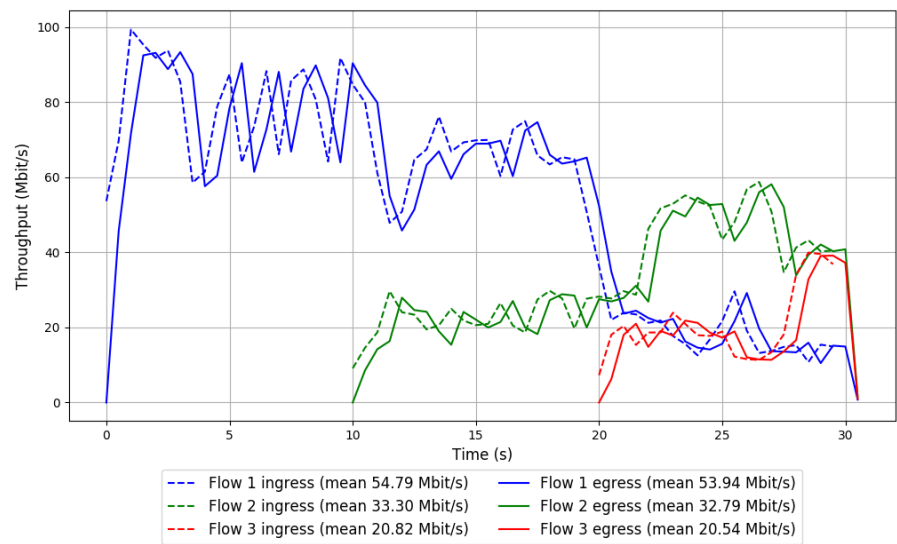
-- Flow 3:

Average throughput: 20.54 Mbit/s

95th percentile per-packet one-way delay: 35.999 ms

Loss rate: 1.35%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-24 14:58:07

End at: 2018-07-24 14:58:37

Local clock offset: 2.236 ms

Remote clock offset: 3.651 ms

Below is generated by plot.py at 2018-07-24 17:47:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 33.238 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 40.435 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 23.01 Mbit/s

95th percentile per-packet one-way delay: 28.121 ms

Loss rate: 1.93%

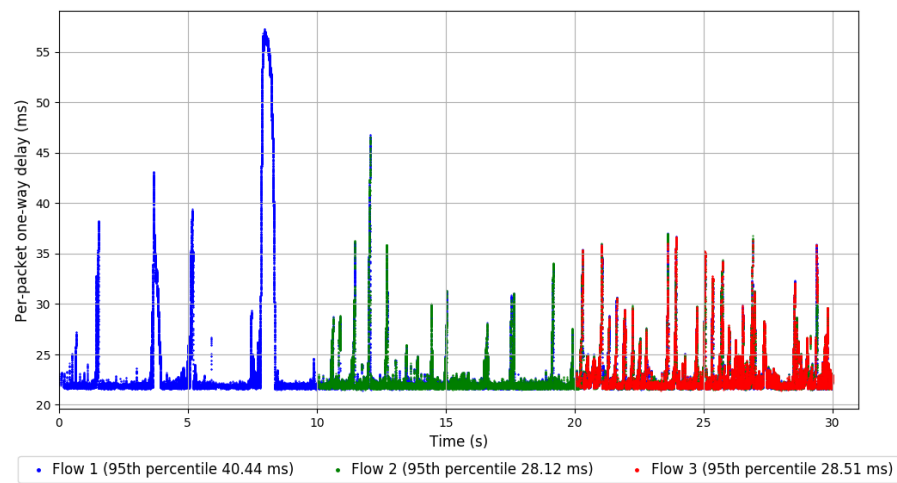
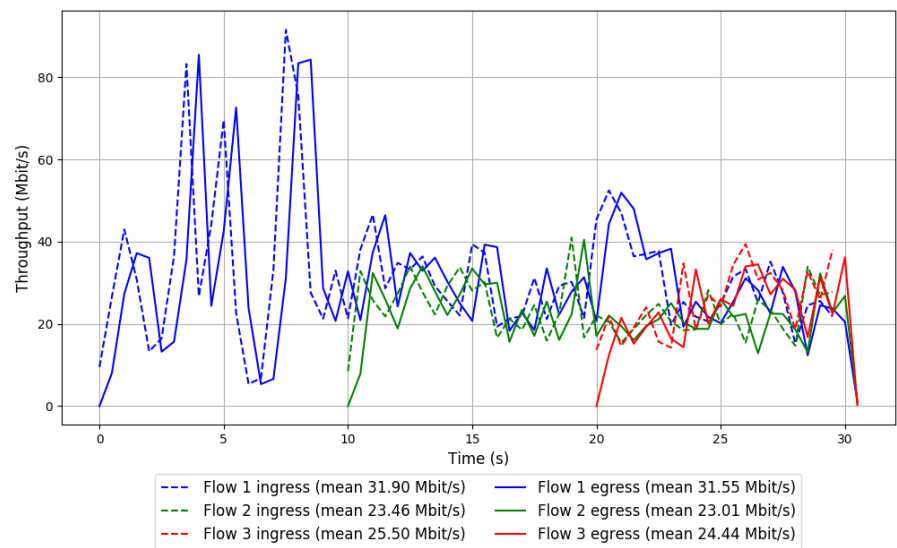
-- Flow 3:

Average throughput: 24.44 Mbit/s

95th percentile per-packet one-way delay: 28.511 ms

Loss rate: 4.14%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-24 15:18:14

End at: 2018-07-24 15:18:44

Local clock offset: 1.79 ms

Remote clock offset: 7.78 ms

Below is generated by plot.py at 2018-07-24 17:47:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.35 Mbit/s

95th percentile per-packet one-way delay: 29.490 ms

Loss rate: 10.77%

-- Flow 1:

Average throughput: 42.41 Mbit/s

95th percentile per-packet one-way delay: 30.230 ms

Loss rate: 10.93%

-- Flow 2:

Average throughput: 41.99 Mbit/s

95th percentile per-packet one-way delay: 28.531 ms

Loss rate: 10.14%

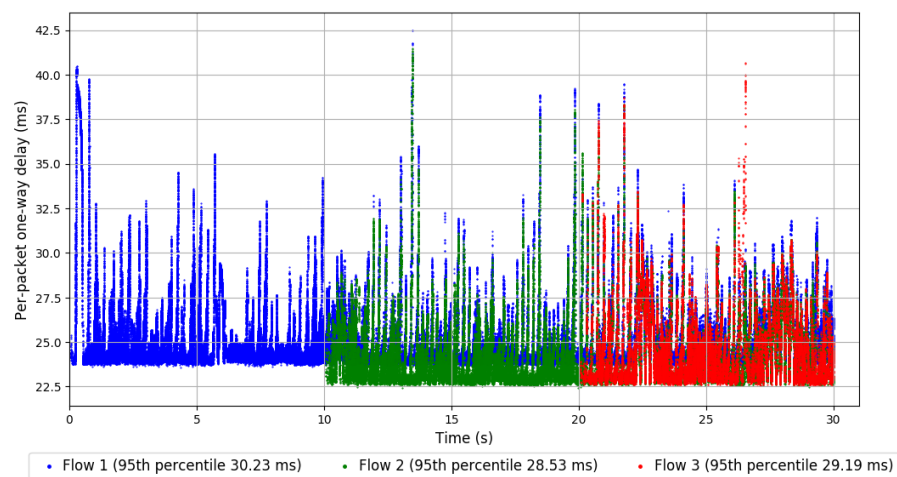
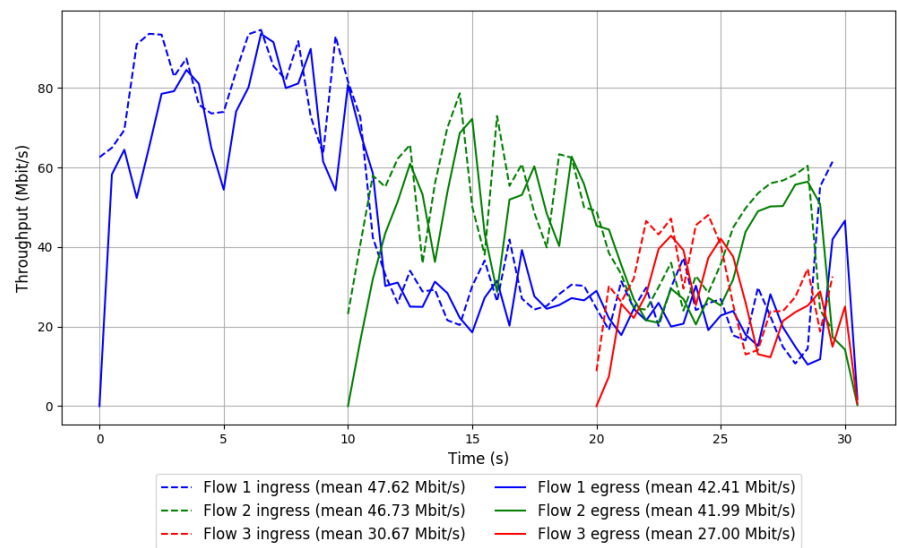
-- Flow 3:

Average throughput: 27.00 Mbit/s

95th percentile per-packet one-way delay: 29.194 ms

Loss rate: 11.95%

Run 3: Report of Copa — Data Link

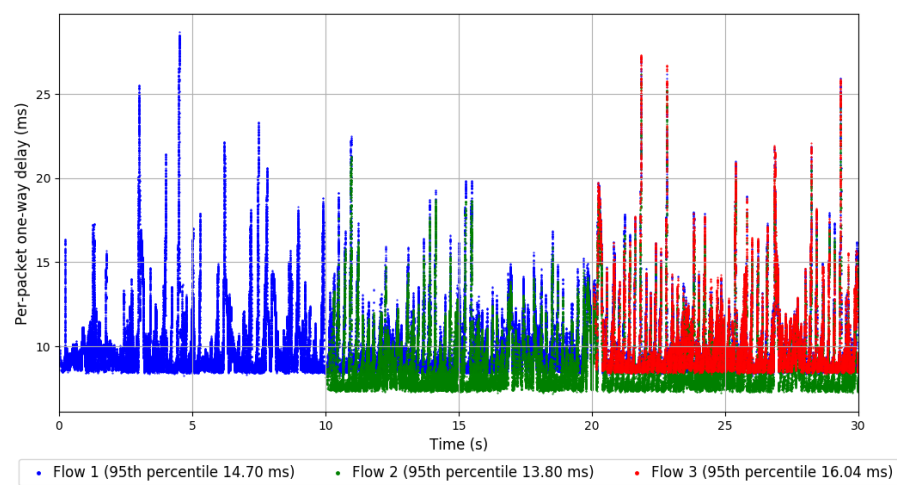
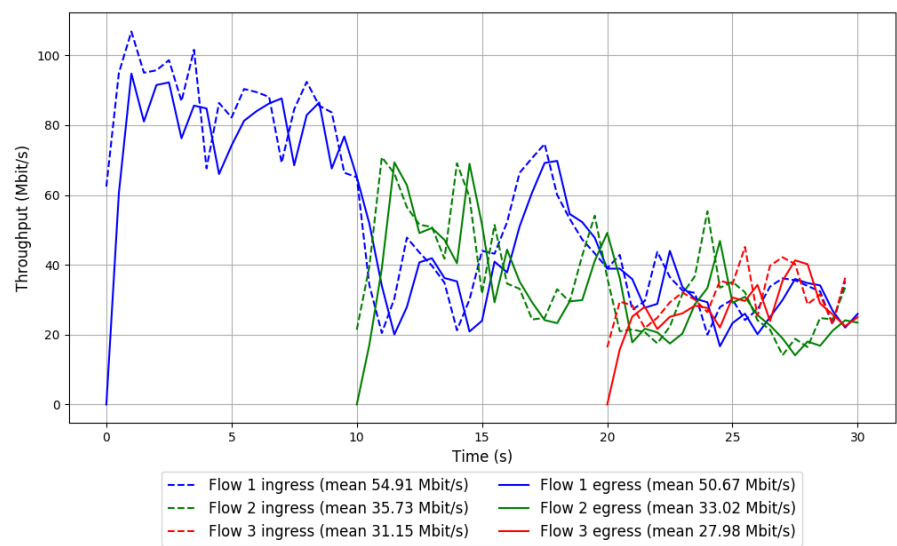


Run 4: Statistics of Copa

Start at: 2018-07-24 15:38:20
End at: 2018-07-24 15:38:50
Local clock offset: 2.401 ms
Remote clock offset: -2.253 ms

Below is generated by plot.py at 2018-07-24 17:47:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.95 Mbit/s
95th percentile per-packet one-way delay: 14.653 ms
Loss rate: 7.98%
-- Flow 1:
Average throughput: 50.67 Mbit/s
95th percentile per-packet one-way delay: 14.696 ms
Loss rate: 7.73%
-- Flow 2:
Average throughput: 33.02 Mbit/s
95th percentile per-packet one-way delay: 13.803 ms
Loss rate: 7.59%
-- Flow 3:
Average throughput: 27.98 Mbit/s
95th percentile per-packet one-way delay: 16.037 ms
Loss rate: 10.22%

Run 4: Report of Copa — Data Link

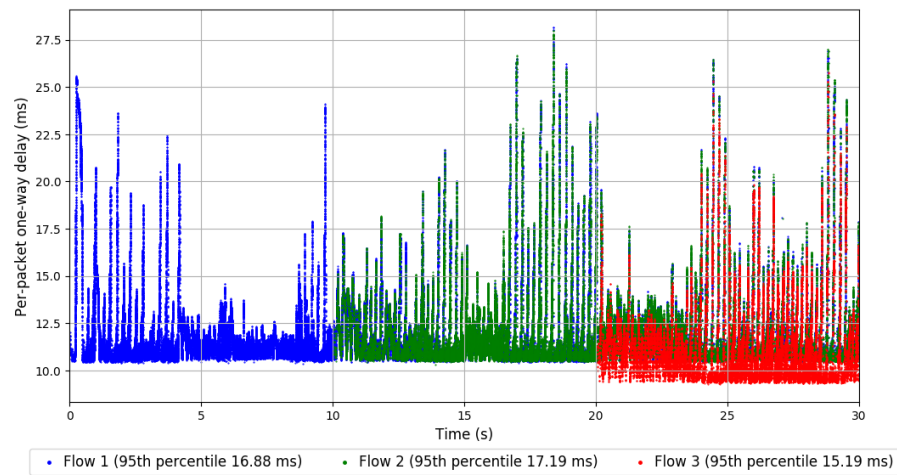
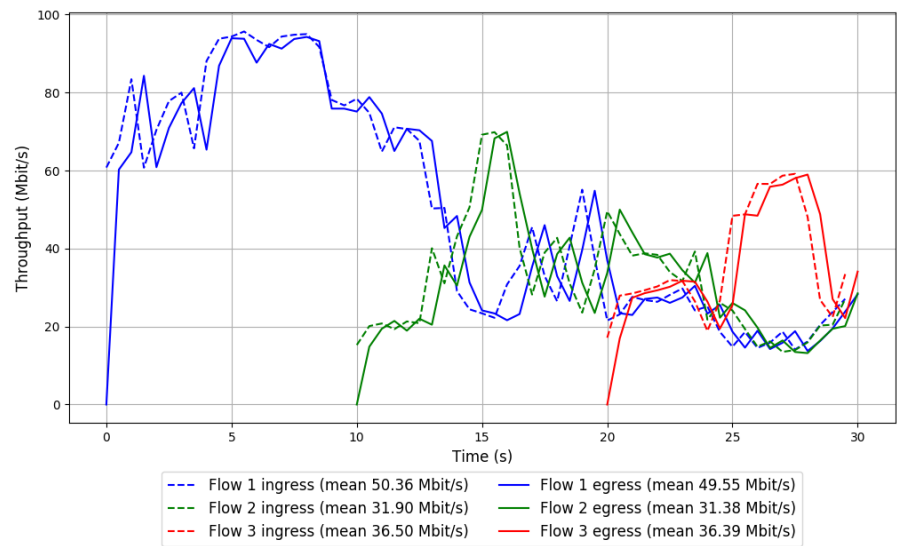


Run 5: Statistics of Copa

Start at: 2018-07-24 15:58:53
End at: 2018-07-24 15:59:23
Local clock offset: 0.979 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-07-24 17:47:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.55 Mbit/s
95th percentile per-packet one-way delay: 16.740 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 49.55 Mbit/s
95th percentile per-packet one-way delay: 16.877 ms
Loss rate: 1.61%
-- Flow 2:
Average throughput: 31.38 Mbit/s
95th percentile per-packet one-way delay: 17.193 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 36.39 Mbit/s
95th percentile per-packet one-way delay: 15.194 ms
Loss rate: 0.30%

Run 5: Report of Copa — Data Link

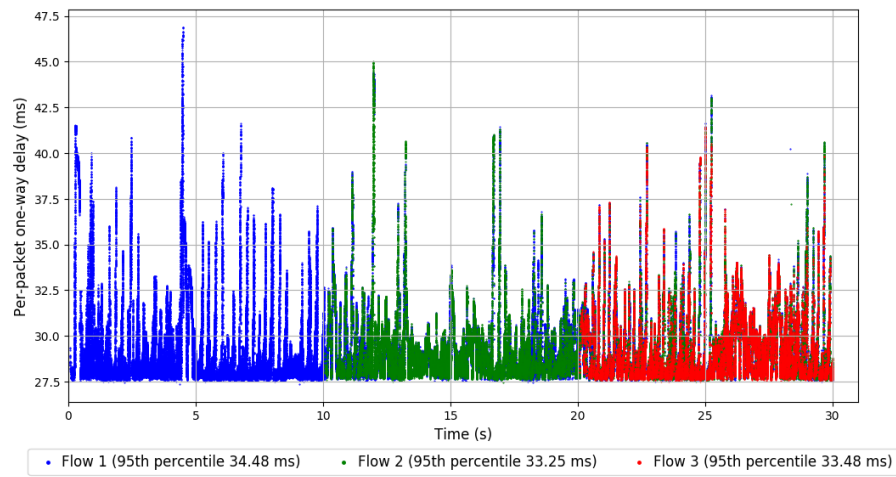
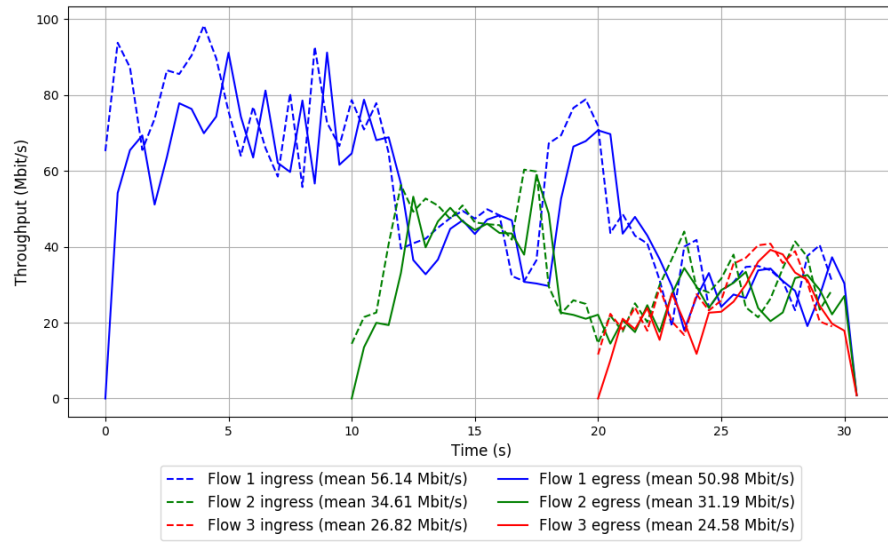


Run 6: Statistics of Copa

Start at: 2018-07-24 16:18:55
End at: 2018-07-24 16:19:25
Local clock offset: 2.403 ms
Remote clock offset: 20.414 ms

```
# Below is generated by plot.py at 2018-07-24 17:47:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.92 Mbit/s
95th percentile per-packet one-way delay: 34.049 ms
Loss rate: 9.29%
-- Flow 1:
Average throughput: 50.98 Mbit/s
95th percentile per-packet one-way delay: 34.485 ms
Loss rate: 9.19%
-- Flow 2:
Average throughput: 31.19 Mbit/s
95th percentile per-packet one-way delay: 33.247 ms
Loss rate: 9.89%
-- Flow 3:
Average throughput: 24.58 Mbit/s
95th percentile per-packet one-way delay: 33.480 ms
Loss rate: 8.38%
```


Run 6: Report of Copa — Data Link

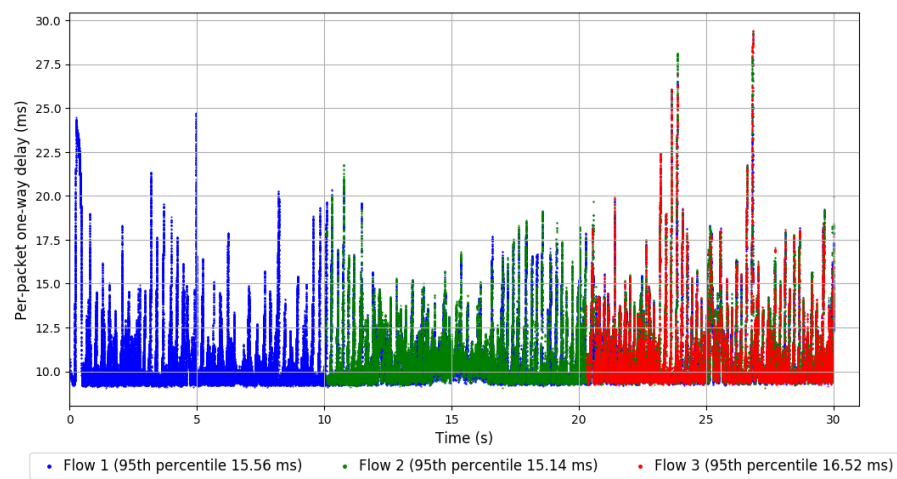
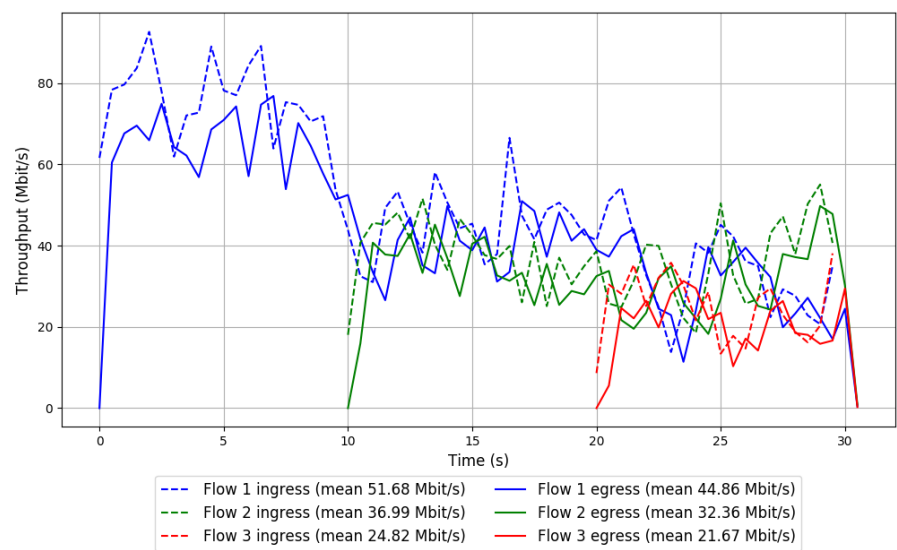


Run 7: Statistics of Copa

Start at: 2018-07-24 16:38:51
End at: 2018-07-24 16:39:21
Local clock offset: -1.638 ms
Remote clock offset: -4.294 ms

Below is generated by plot.py at 2018-07-24 17:48:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.48 Mbit/s
95th percentile per-packet one-way delay: 15.493 ms
Loss rate: 13.10%
-- Flow 1:
Average throughput: 44.86 Mbit/s
95th percentile per-packet one-way delay: 15.563 ms
Loss rate: 13.18%
-- Flow 2:
Average throughput: 32.36 Mbit/s
95th percentile per-packet one-way delay: 15.137 ms
Loss rate: 12.50%
-- Flow 3:
Average throughput: 21.67 Mbit/s
95th percentile per-packet one-way delay: 16.515 ms
Loss rate: 14.40%

Run 7: Report of Copa — Data Link

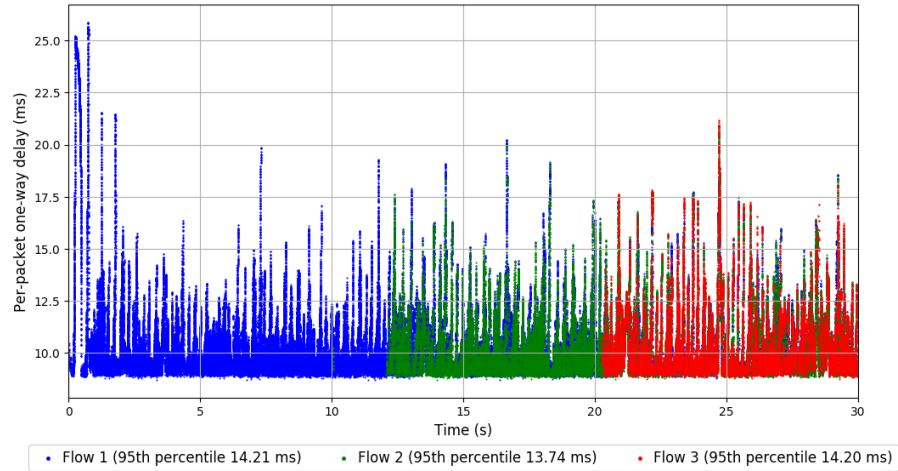
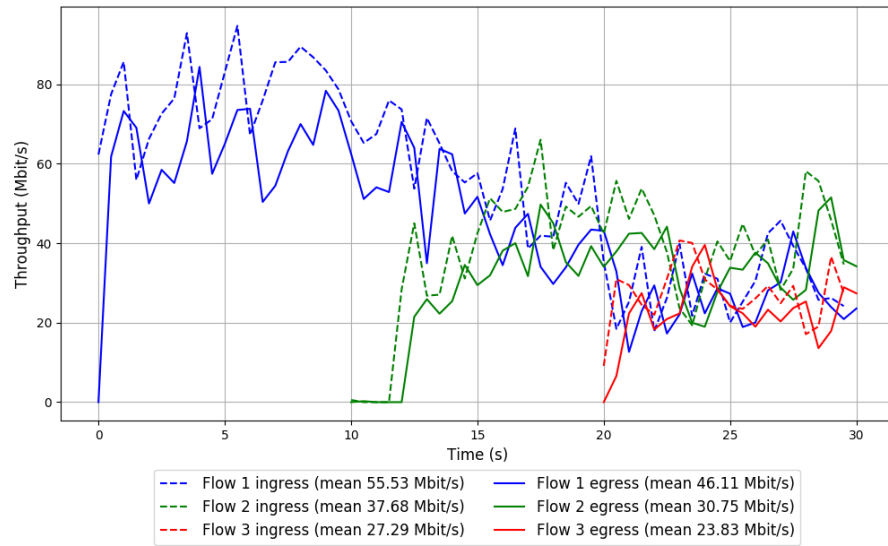


Run 8: Statistics of Copa

Start at: 2018-07-24 16:59:05
End at: 2018-07-24 16:59:35
Local clock offset: -0.138 ms
Remote clock offset: -5.175 ms

Below is generated by plot.py at 2018-07-24 17:48:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.36 Mbit/s
95th percentile per-packet one-way delay: 14.038 ms
Loss rate: 17.11%
-- Flow 1:
Average throughput: 46.11 Mbit/s
95th percentile per-packet one-way delay: 14.206 ms
Loss rate: 16.96%
-- Flow 2:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 13.742 ms
Loss rate: 18.39%
-- Flow 3:
Average throughput: 23.83 Mbit/s
95th percentile per-packet one-way delay: 14.197 ms
Loss rate: 14.45%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-24 17:18:51

End at: 2018-07-24 17:19:21

Local clock offset: 0.042 ms

Remote clock offset: 5.435 ms

Below is generated by plot.py at 2018-07-24 17:48:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.81 Mbit/s

95th percentile per-packet one-way delay: 30.323 ms

Loss rate: 9.06%

-- Flow 1:

Average throughput: 45.47 Mbit/s

95th percentile per-packet one-way delay: 31.019 ms

Loss rate: 7.59%

-- Flow 2:

Average throughput: 35.06 Mbit/s

95th percentile per-packet one-way delay: 29.282 ms

Loss rate: 10.52%

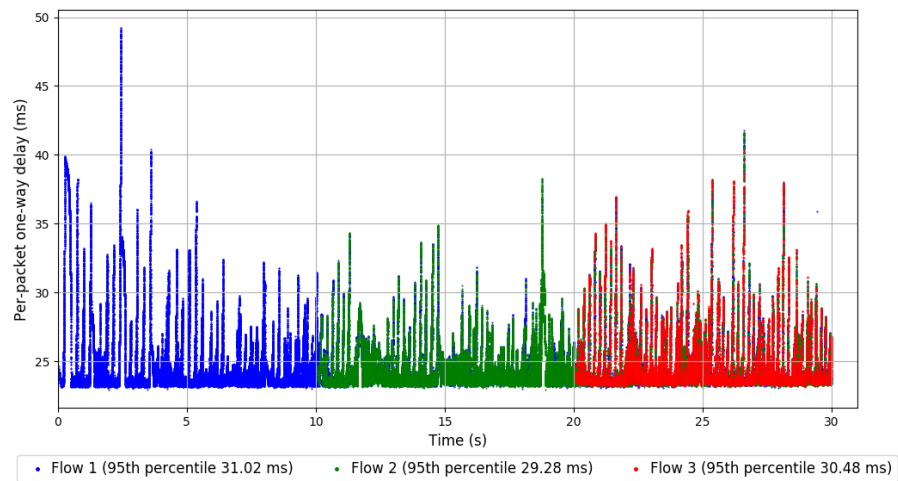
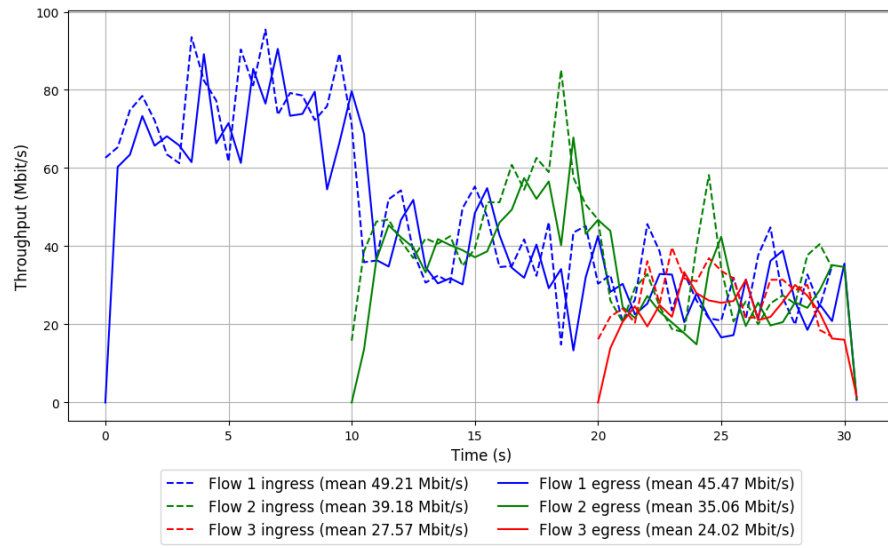
-- Flow 3:

Average throughput: 24.02 Mbit/s

95th percentile per-packet one-way delay: 30.475 ms

Loss rate: 12.84%

Run 9: Report of Copa — Data Link

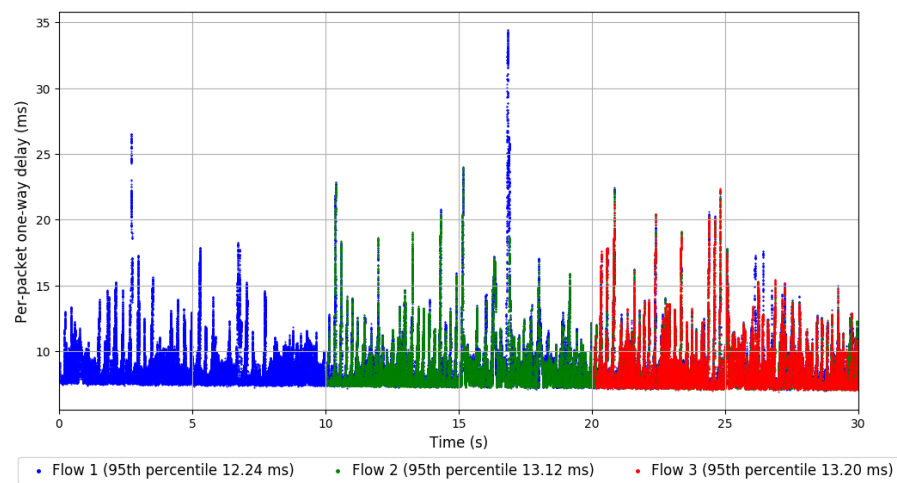
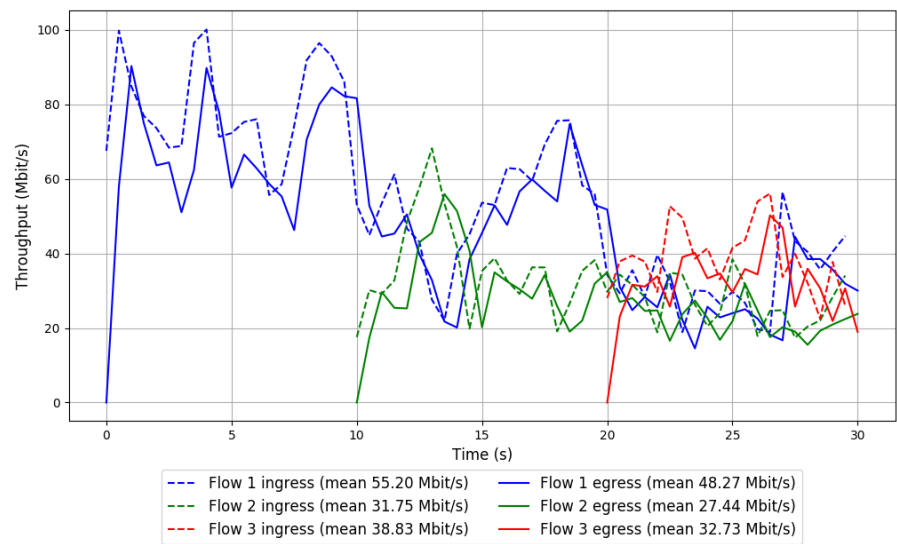


Run 10: Statistics of Copa

Start at: 2018-07-24 17:38:40
End at: 2018-07-24 17:39:10
Local clock offset: 1.409 ms
Remote clock offset: -9.557 ms

Below is generated by plot.py at 2018-07-24 17:49:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.44 Mbit/s
95th percentile per-packet one-way delay: 12.627 ms
Loss rate: 13.25%
-- Flow 1:
Average throughput: 48.27 Mbit/s
95th percentile per-packet one-way delay: 12.245 ms
Loss rate: 12.55%
-- Flow 2:
Average throughput: 27.44 Mbit/s
95th percentile per-packet one-way delay: 13.119 ms
Loss rate: 13.58%
-- Flow 3:
Average throughput: 32.73 Mbit/s
95th percentile per-packet one-way delay: 13.202 ms
Loss rate: 15.70%

Run 10: Report of Copa — Data Link

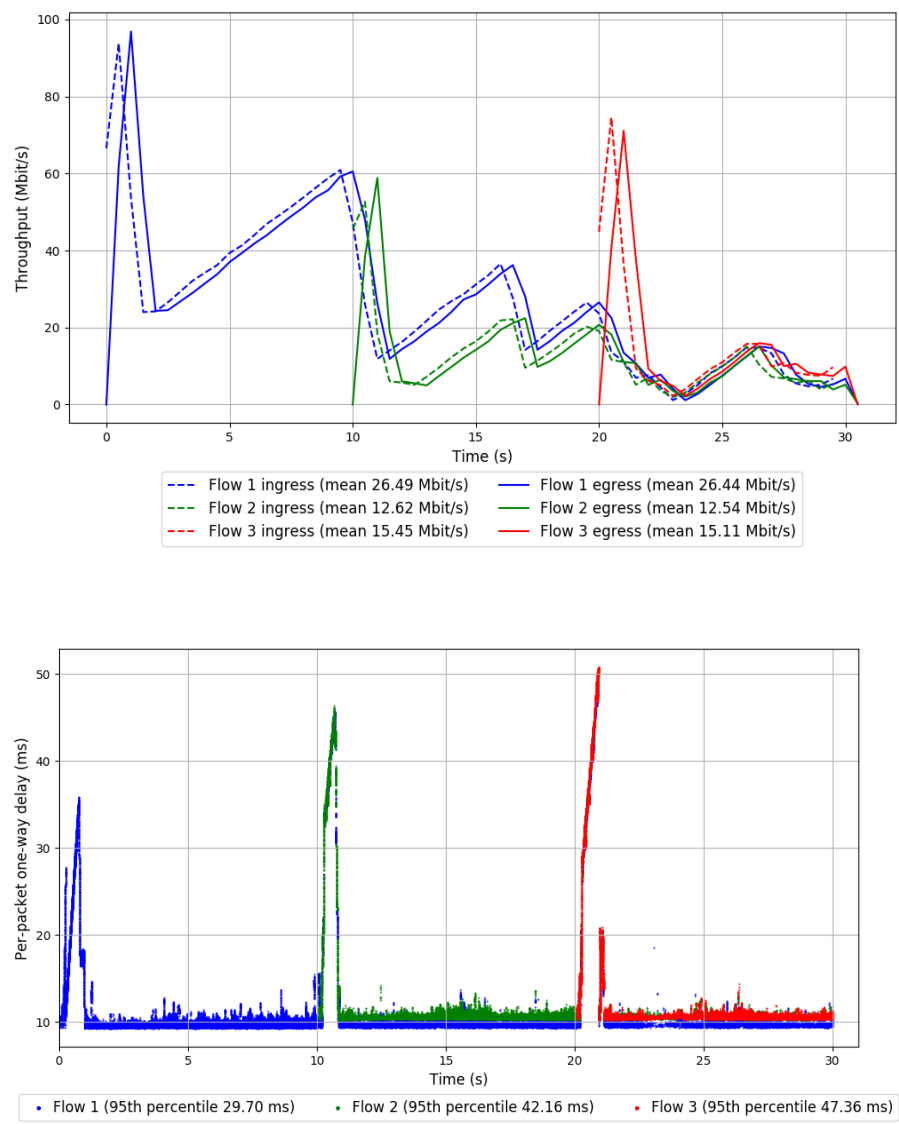


Run 1: Statistics of TCP Cubic

Start at: 2018-07-24 14:24:30
End at: 2018-07-24 14:25:00
Local clock offset: 2.083 ms
Remote clock offset: -8.485 ms

Below is generated by plot.py at 2018-07-24 17:49:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.81 Mbit/s
95th percentile per-packet one-way delay: 38.461 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 26.44 Mbit/s
95th percentile per-packet one-way delay: 29.695 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 42.155 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 15.11 Mbit/s
95th percentile per-packet one-way delay: 47.357 ms
Loss rate: 2.17%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-24 14:44:12

End at: 2018-07-24 14:44:42

Local clock offset: 2.398 ms

Remote clock offset: 8.785 ms

Below is generated by plot.py at 2018-07-24 17:49:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.72 Mbit/s

95th percentile per-packet one-way delay: 32.482 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 14.56 Mbit/s

95th percentile per-packet one-way delay: 31.085 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 12.84 Mbit/s

95th percentile per-packet one-way delay: 39.594 ms

Loss rate: 0.19%

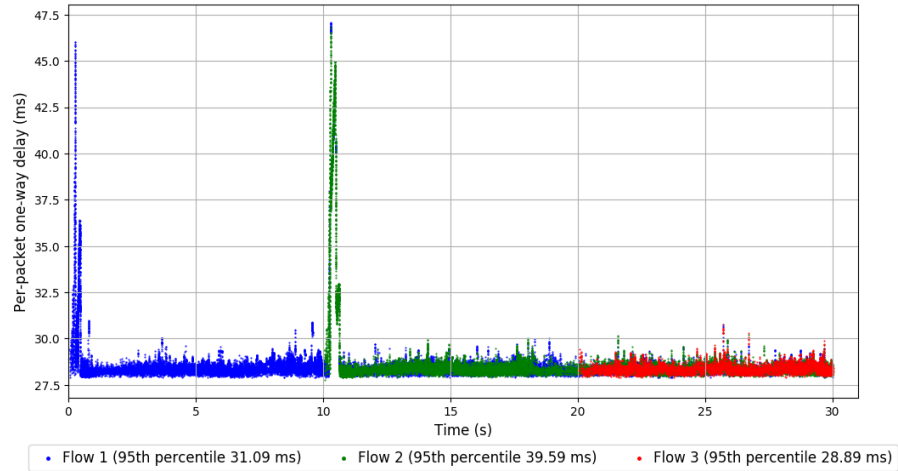
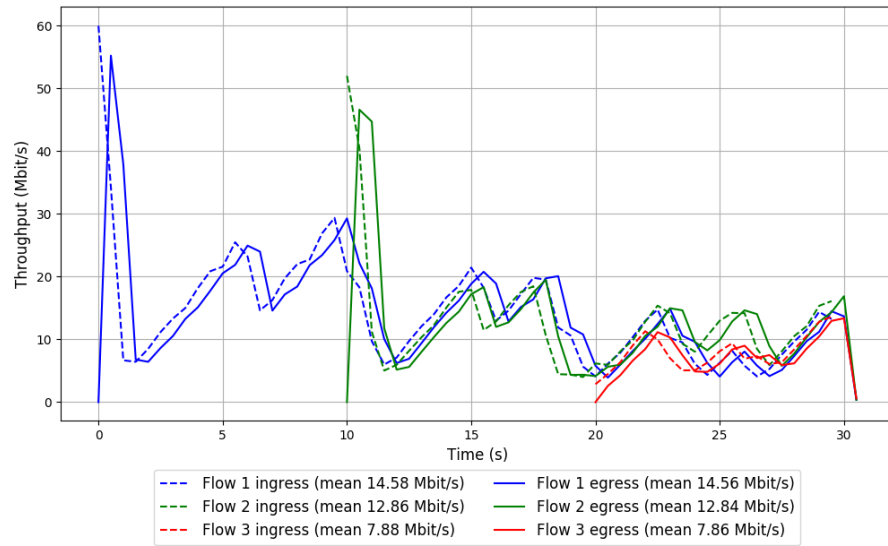
-- Flow 3:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 28.887 ms

Loss rate: 0.23%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-24 15:04:10

End at: 2018-07-24 15:04:40

Local clock offset: 2.056 ms

Remote clock offset: 0.737 ms

Below is generated by plot.py at 2018-07-24 17:49:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.96 Mbit/s

95th percentile per-packet one-way delay: 46.715 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 23.38 Mbit/s

95th percentile per-packet one-way delay: 45.275 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 43.745 ms

Loss rate: 0.74%

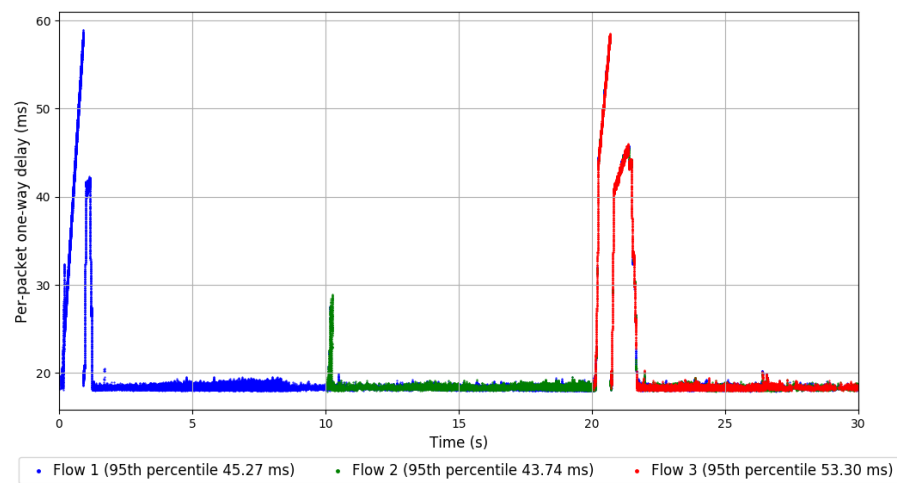
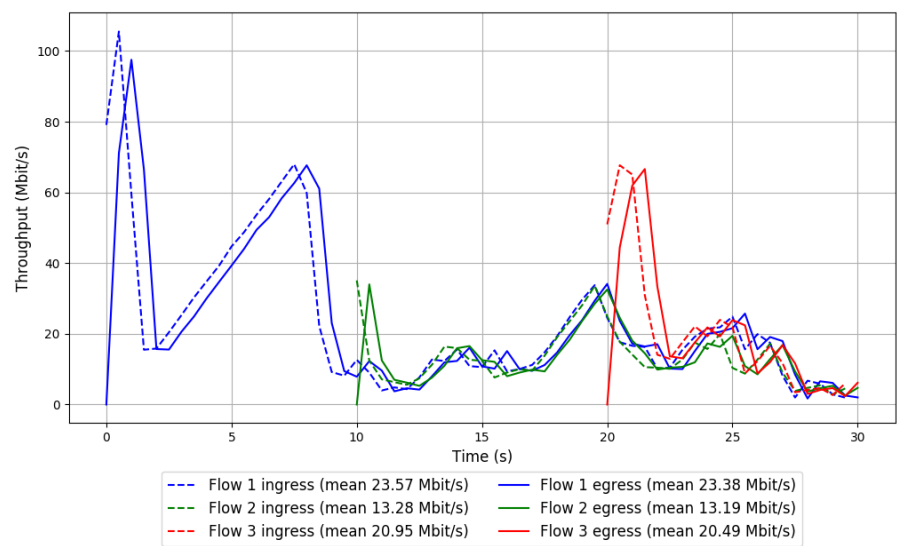
-- Flow 3:

Average throughput: 20.49 Mbit/s

95th percentile per-packet one-way delay: 53.302 ms

Loss rate: 2.20%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-24 15:24:26

End at: 2018-07-24 15:24:56

Local clock offset: 0.002 ms

Remote clock offset: 2.099 ms

Below is generated by plot.py at 2018-07-24 17:49:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.17 Mbit/s

95th percentile per-packet one-way delay: 46.345 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 18.55 Mbit/s

95th percentile per-packet one-way delay: 45.777 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 18.576 ms

Loss rate: 0.43%

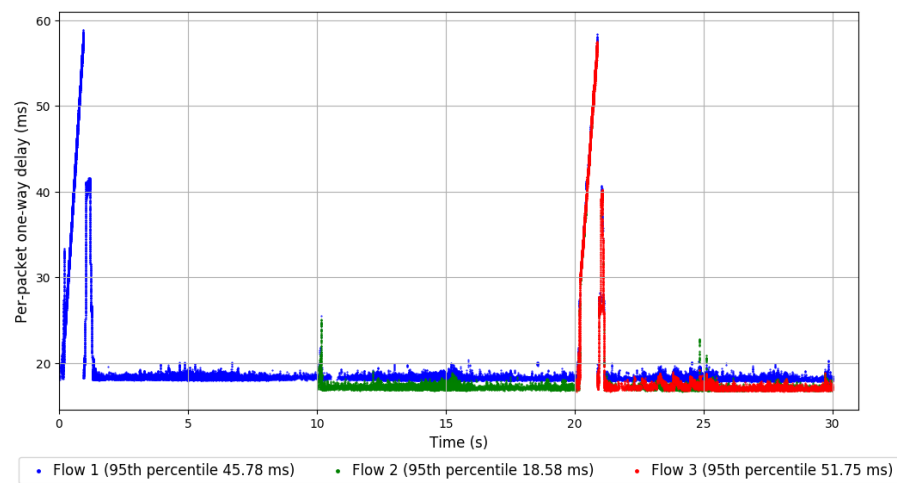
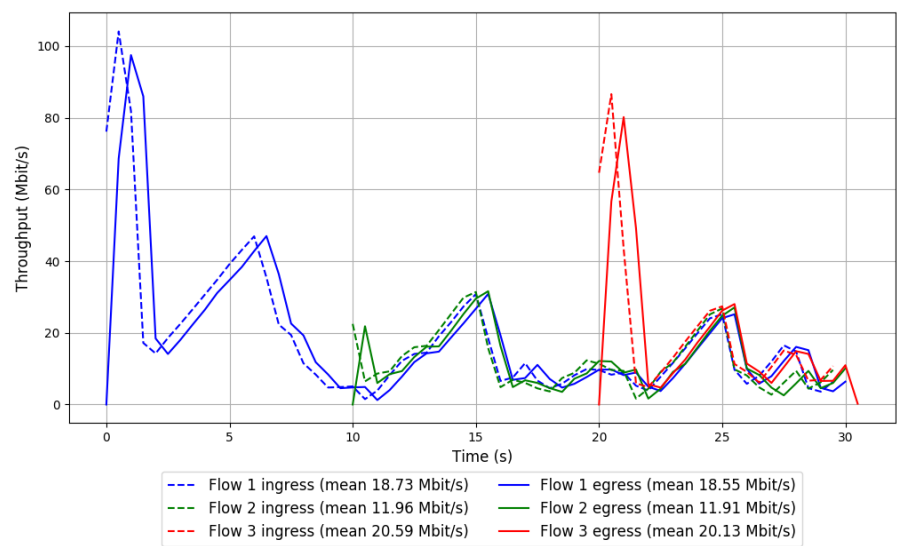
-- Flow 3:

Average throughput: 20.13 Mbit/s

95th percentile per-packet one-way delay: 51.751 ms

Loss rate: 2.23%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-24 15:44:42

End at: 2018-07-24 15:45:12

Local clock offset: 0.287 ms

Remote clock offset: 7.936 ms

Below is generated by plot.py at 2018-07-24 17:49:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.92 Mbit/s

95th percentile per-packet one-way delay: 21.558 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 9.29 Mbit/s

95th percentile per-packet one-way delay: 21.327 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 9.71 Mbit/s

95th percentile per-packet one-way delay: 27.283 ms

Loss rate: 1.01%

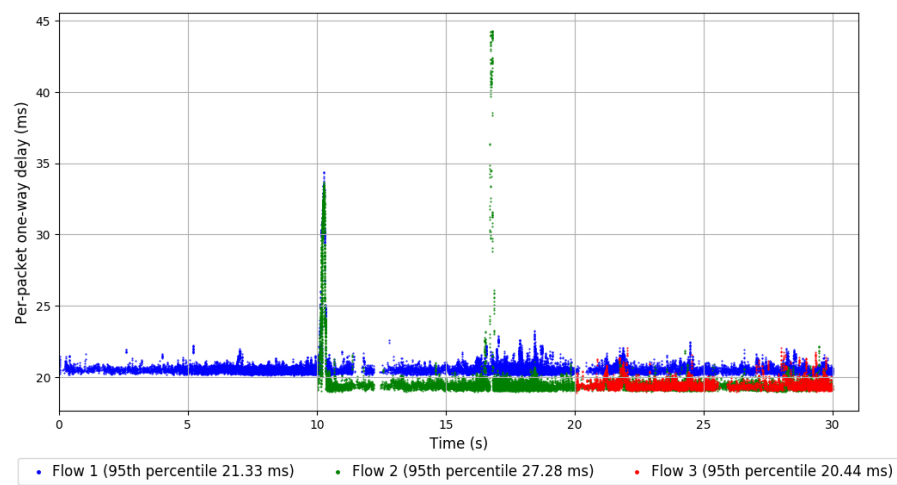
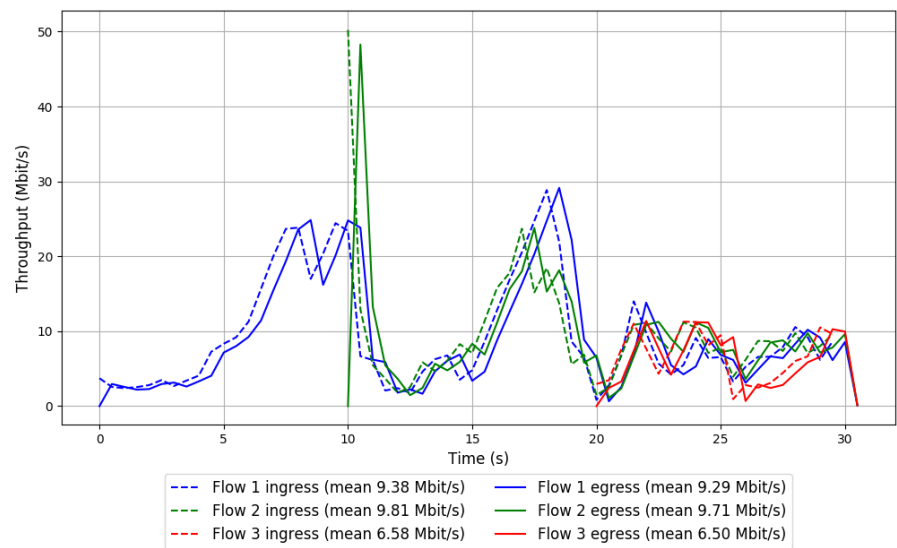
-- Flow 3:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 20.436 ms

Loss rate: 1.26%

Run 5: Report of TCP Cubic — Data Link

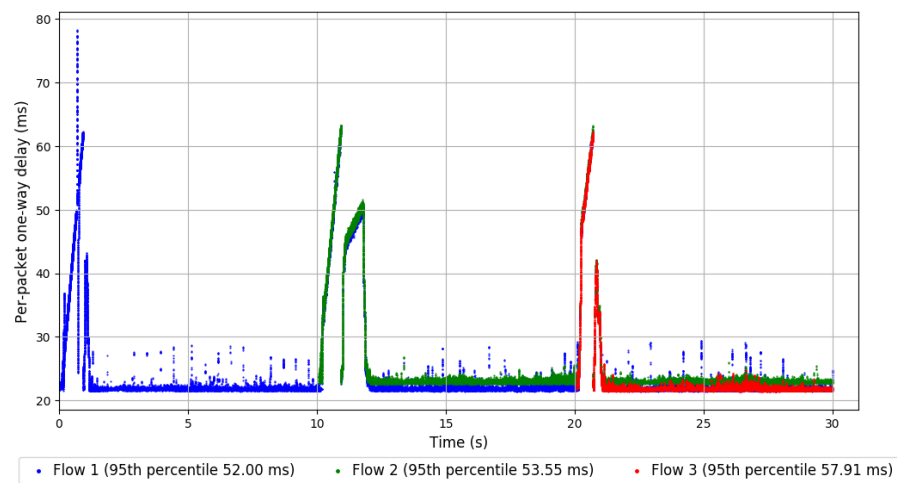
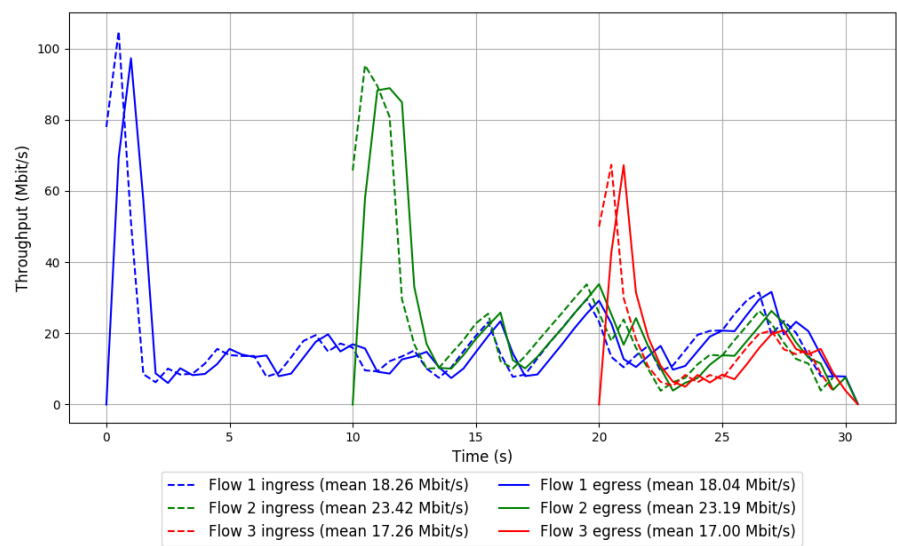


Run 6: Statistics of TCP Cubic

Start at: 2018-07-24 16:04:58
End at: 2018-07-24 16:05:28
Local clock offset: 1.92 ms
Remote clock offset: 13.501 ms

Below is generated by plot.py at 2018-07-24 17:49:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.13 Mbit/s
95th percentile per-packet one-way delay: 54.552 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 18.04 Mbit/s
95th percentile per-packet one-way delay: 52.000 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 23.19 Mbit/s
95th percentile per-packet one-way delay: 53.554 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 17.00 Mbit/s
95th percentile per-packet one-way delay: 57.906 ms
Loss rate: 1.52%

Run 6: Report of TCP Cubic — Data Link

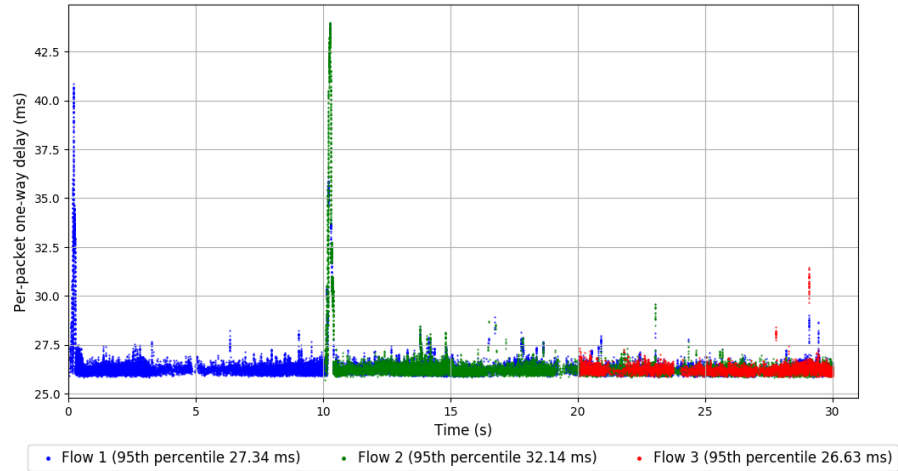
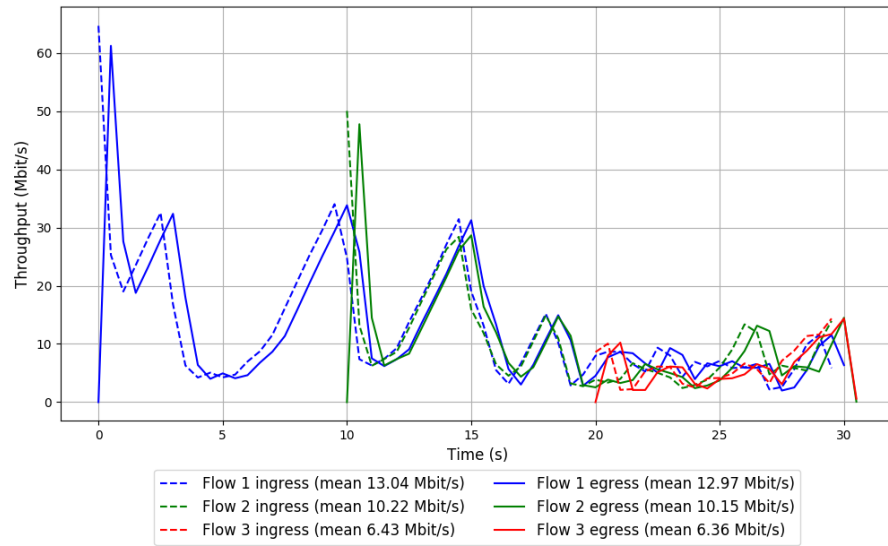


Run 7: Statistics of TCP Cubic

Start at: 2018-07-24 16:24:58
End at: 2018-07-24 16:25:28
Local clock offset: -0.274 ms
Remote clock offset: 17.736 ms

Below is generated by plot.py at 2018-07-24 17:49:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.83 Mbit/s
95th percentile per-packet one-way delay: 28.515 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 27.338 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 10.15 Mbit/s
95th percentile per-packet one-way delay: 32.139 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 6.36 Mbit/s
95th percentile per-packet one-way delay: 26.627 ms
Loss rate: 1.07%

Run 7: Report of TCP Cubic — Data Link

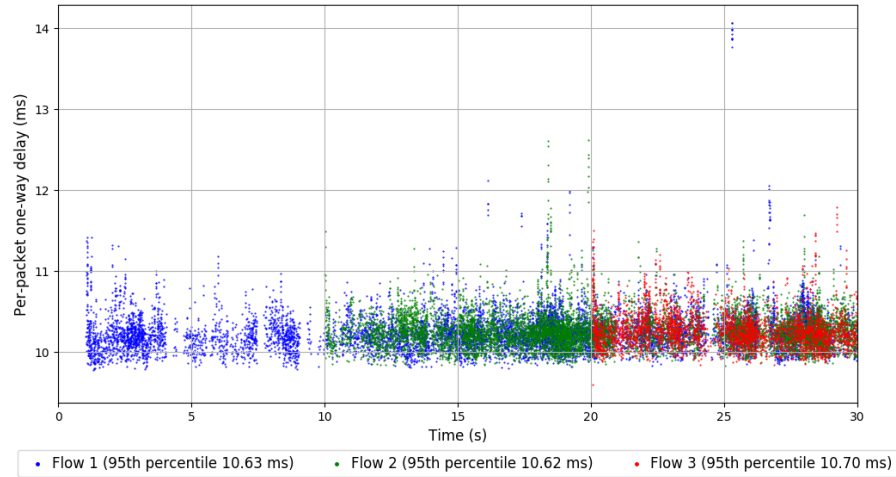
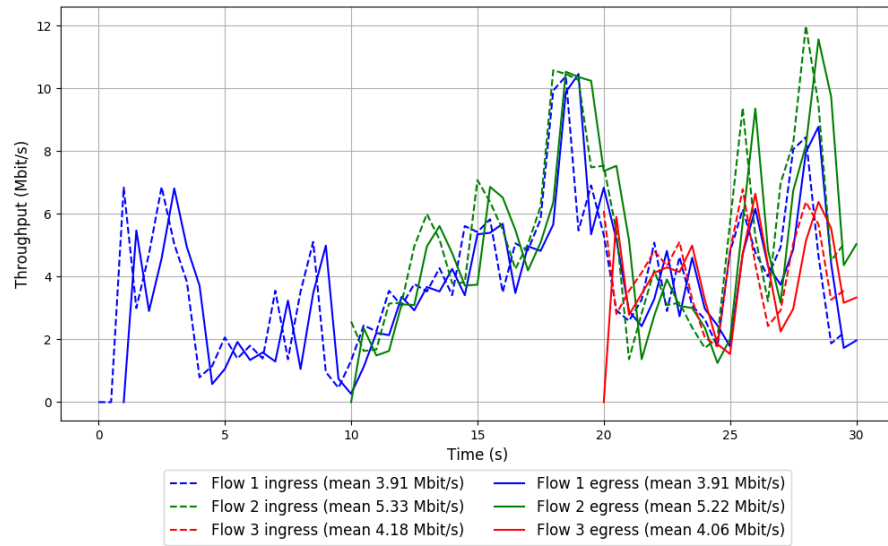


Run 8: Statistics of TCP Cubic

Start at: 2018-07-24 16:45:11
End at: 2018-07-24 16:45:41
Local clock offset: -1.041 ms
Remote clock offset: -4.198 ms

Below is generated by plot.py at 2018-07-24 17:49:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 10.639 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 10.635 ms
Loss rate: 3.44%
-- Flow 2:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 10.616 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 10.700 ms
Loss rate: 2.82%

Run 8: Report of TCP Cubic — Data Link

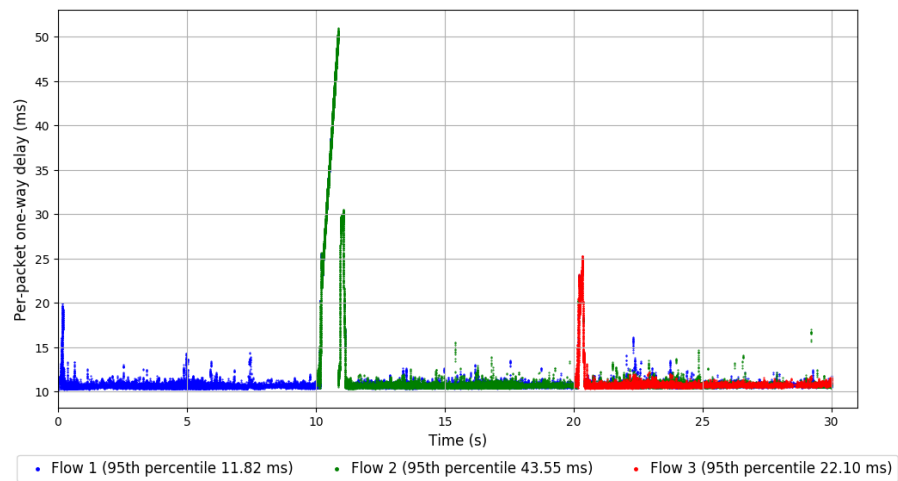
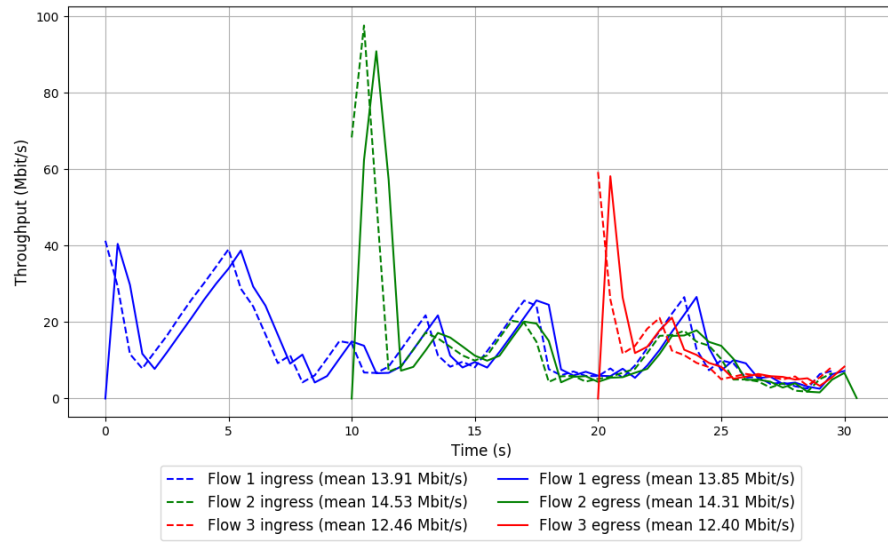


Run 9: Statistics of TCP Cubic

Start at: 2018-07-24 17:05:08
End at: 2018-07-24 17:05:38
Local clock offset: 0.748 ms
Remote clock offset: -3.866 ms

Below is generated by plot.py at 2018-07-24 17:49:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.51 Mbit/s
95th percentile per-packet one-way delay: 32.251 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 13.85 Mbit/s
95th percentile per-packet one-way delay: 11.817 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 14.31 Mbit/s
95th percentile per-packet one-way delay: 43.550 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 22.099 ms
Loss rate: 0.48%

Run 9: Report of TCP Cubic — Data Link

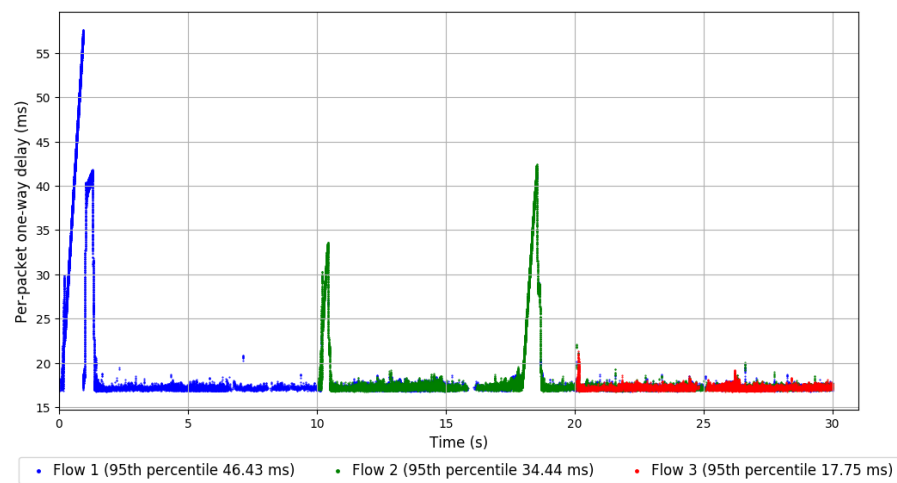
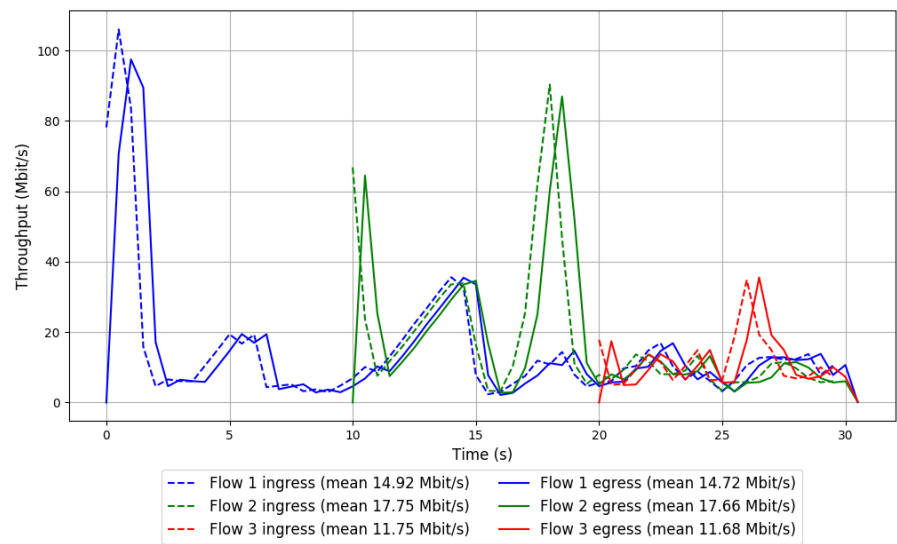


Run 10: Statistics of TCP Cubic

Start at: 2018-07-24 17:24:46
End at: 2018-07-24 17:25:16
Local clock offset: -0.618 ms
Remote clock offset: -2.158 ms

Below is generated by plot.py at 2018-07-24 17:49:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.36 Mbit/s
95th percentile per-packet one-way delay: 40.721 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 14.72 Mbit/s
95th percentile per-packet one-way delay: 46.431 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 17.66 Mbit/s
95th percentile per-packet one-way delay: 34.442 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 17.754 ms
Loss rate: 0.66%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-24 14:37:06

End at: 2018-07-24 14:37:36

Local clock offset: 3.073 ms

Remote clock offset: 7.476 ms

Below is generated by plot.py at 2018-07-24 17:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.07 Mbit/s

95th percentile per-packet one-way delay: 61.470 ms

Loss rate: 26.63%

-- Flow 1:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 60.057 ms

Loss rate: 24.51%

-- Flow 2:

Average throughput: 36.36 Mbit/s

95th percentile per-packet one-way delay: 63.175 ms

Loss rate: 29.51%

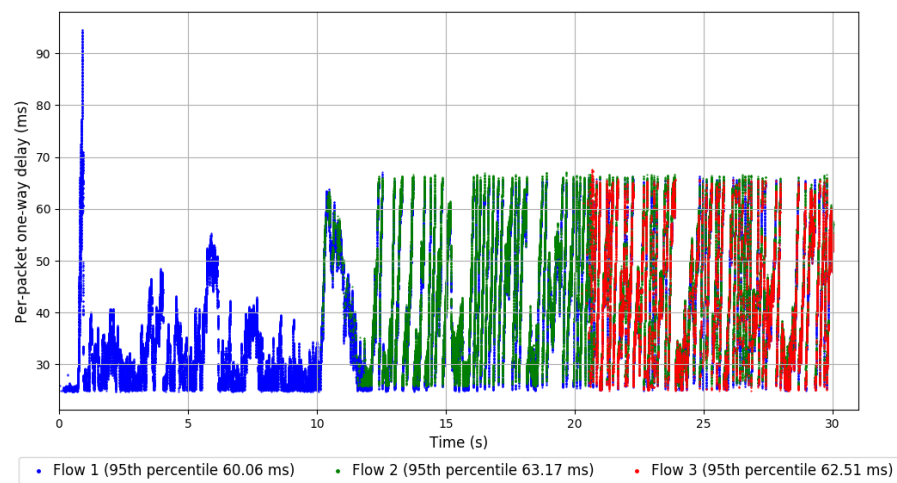
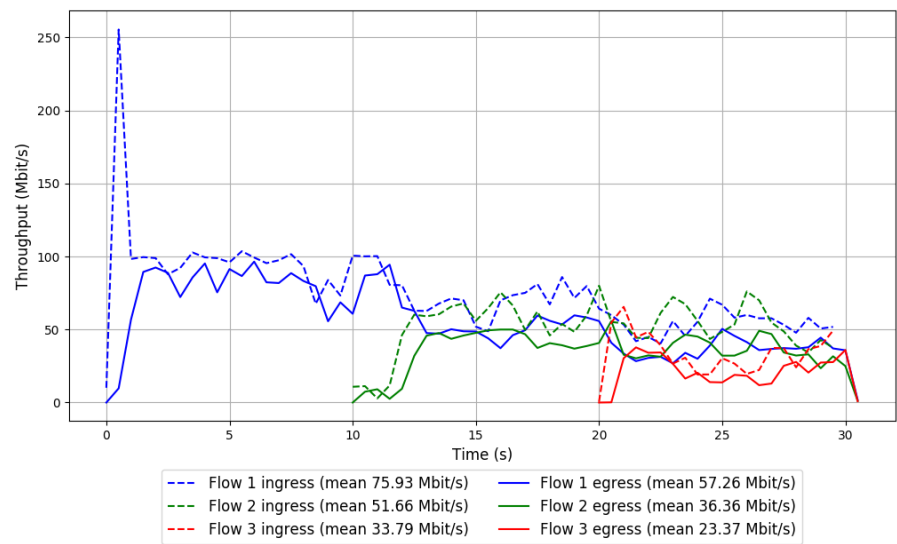
-- Flow 3:

Average throughput: 23.37 Mbit/s

95th percentile per-packet one-way delay: 62.506 ms

Loss rate: 32.17%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-24 14:56:52

End at: 2018-07-24 14:57:22

Local clock offset: 2.173 ms

Remote clock offset: -7.16 ms

Below is generated by plot.py at 2018-07-24 17:50:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.60 Mbit/s

95th percentile per-packet one-way delay: 46.260 ms

Loss rate: 25.66%

-- Flow 1:

Average throughput: 60.13 Mbit/s

95th percentile per-packet one-way delay: 45.265 ms

Loss rate: 21.14%

-- Flow 2:

Average throughput: 37.59 Mbit/s

95th percentile per-packet one-way delay: 47.112 ms

Loss rate: 33.22%

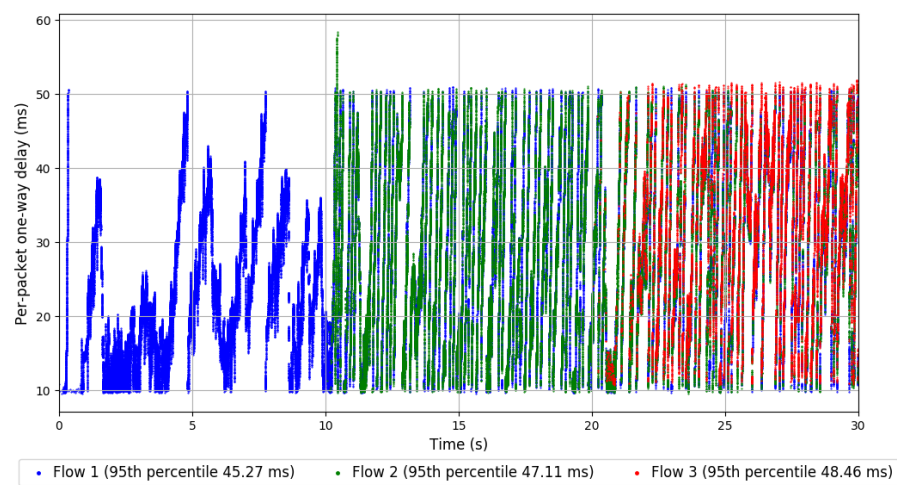
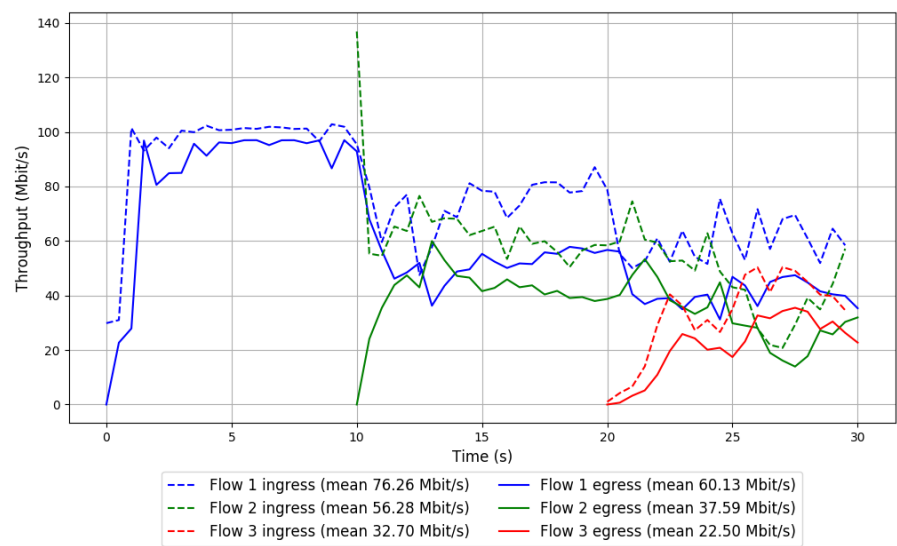
-- Flow 3:

Average throughput: 22.50 Mbit/s

95th percentile per-packet one-way delay: 48.459 ms

Loss rate: 31.26%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-24 15:17:03

End at: 2018-07-24 15:17:33

Local clock offset: -1.175 ms

Remote clock offset: 5.609 ms

Below is generated by plot.py at 2018-07-24 17:50:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.51 Mbit/s

95th percentile per-packet one-way delay: 58.658 ms

Loss rate: 28.20%

-- Flow 1:

Average throughput: 49.28 Mbit/s

95th percentile per-packet one-way delay: 57.060 ms

Loss rate: 25.83%

-- Flow 2:

Average throughput: 41.12 Mbit/s

95th percentile per-packet one-way delay: 59.827 ms

Loss rate: 30.13%

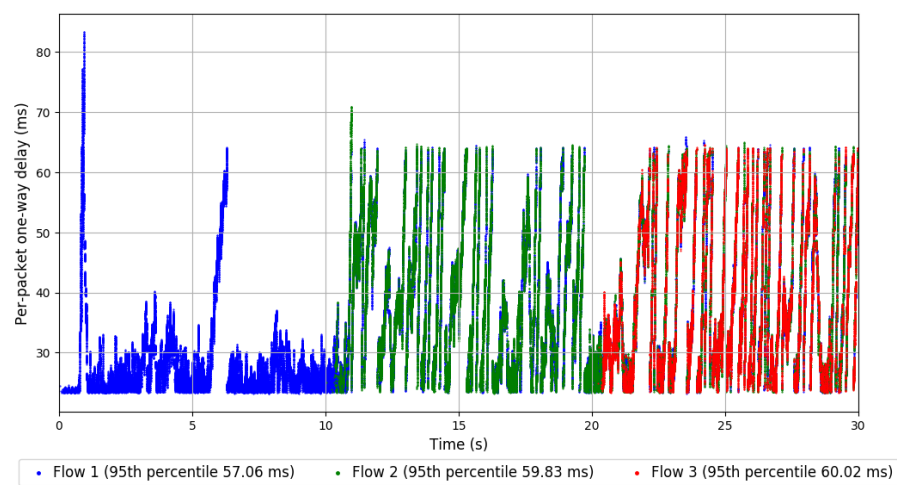
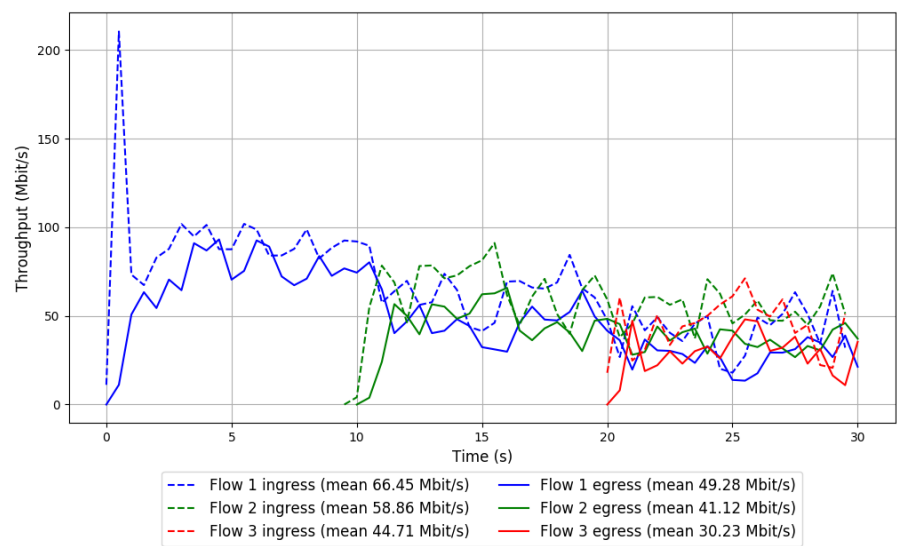
-- Flow 3:

Average throughput: 30.23 Mbit/s

95th percentile per-packet one-way delay: 60.021 ms

Loss rate: 33.72%

Run 3: Report of FillP — Data Link

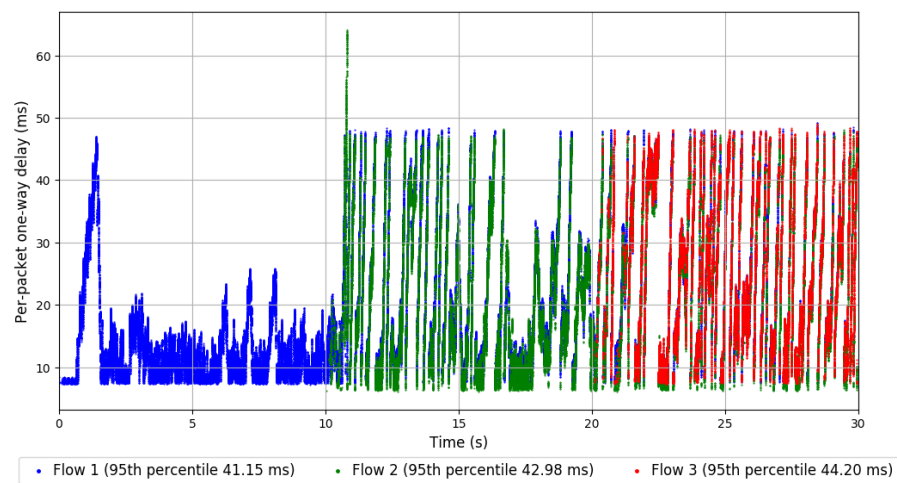
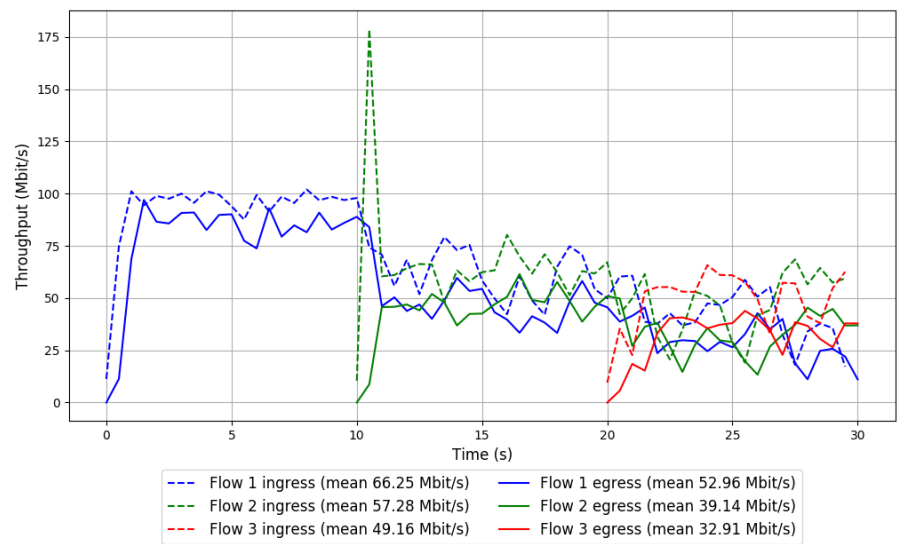


Run 4: Statistics of FillP

Start at: 2018-07-24 15:37:09
End at: 2018-07-24 15:37:39
Local clock offset: 2.905 ms
Remote clock offset: -2.792 ms

Below is generated by plot.py at 2018-07-24 17:50:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.90 Mbit/s
95th percentile per-packet one-way delay: 42.340 ms
Loss rate: 25.49%
-- Flow 1:
Average throughput: 52.96 Mbit/s
95th percentile per-packet one-way delay: 41.152 ms
Loss rate: 20.06%
-- Flow 2:
Average throughput: 39.14 Mbit/s
95th percentile per-packet one-way delay: 42.978 ms
Loss rate: 31.67%
-- Flow 3:
Average throughput: 32.91 Mbit/s
95th percentile per-packet one-way delay: 44.201 ms
Loss rate: 33.07%

Run 4: Report of FillP — Data Link

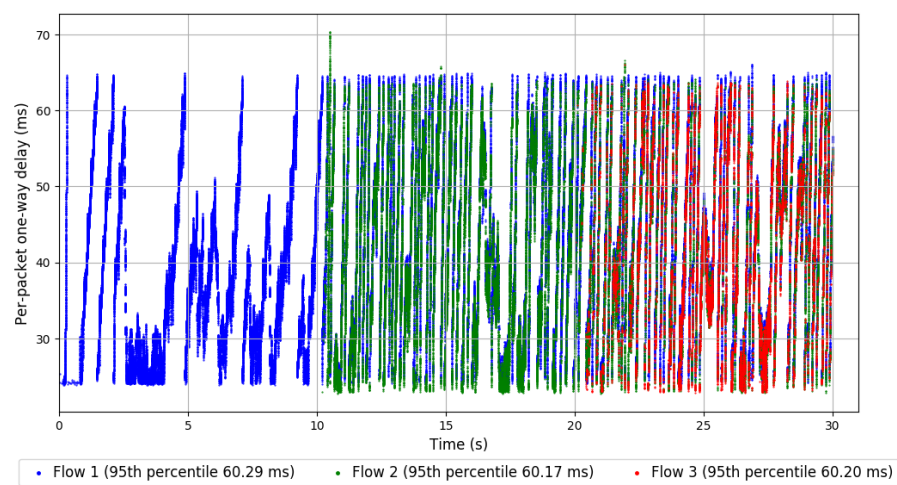
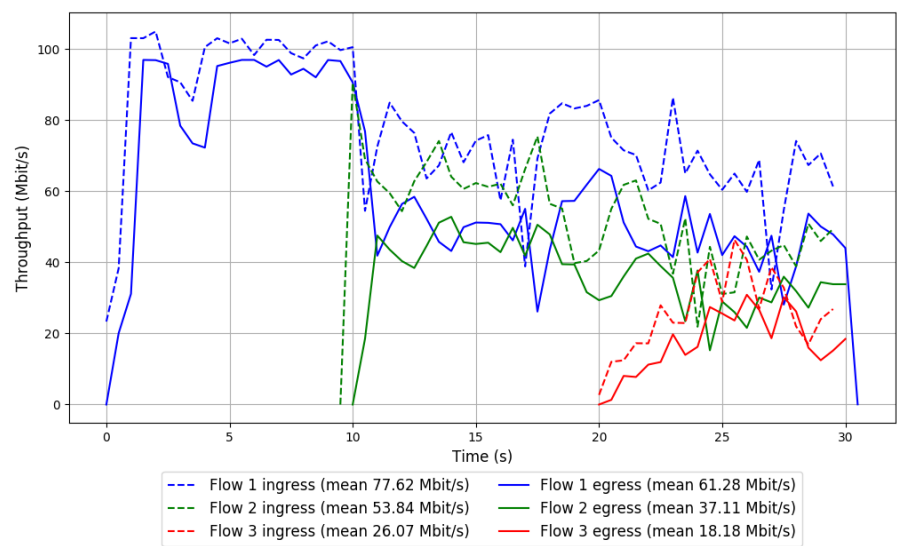


Run 5: Statistics of FillP

Start at: 2018-07-24 15:57:41
End at: 2018-07-24 15:58:11
Local clock offset: 3.497 ms
Remote clock offset: 16.051 ms

Below is generated by plot.py at 2018-07-24 17:50:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.01 Mbit/s
95th percentile per-packet one-way delay: 60.252 ms
Loss rate: 24.59%
-- Flow 1:
Average throughput: 61.28 Mbit/s
95th percentile per-packet one-way delay: 60.293 ms
Loss rate: 20.97%
-- Flow 2:
Average throughput: 37.11 Mbit/s
95th percentile per-packet one-way delay: 60.169 ms
Loss rate: 31.07%
-- Flow 3:
Average throughput: 18.18 Mbit/s
95th percentile per-packet one-way delay: 60.196 ms
Loss rate: 30.16%

Run 5: Report of FillP — Data Link

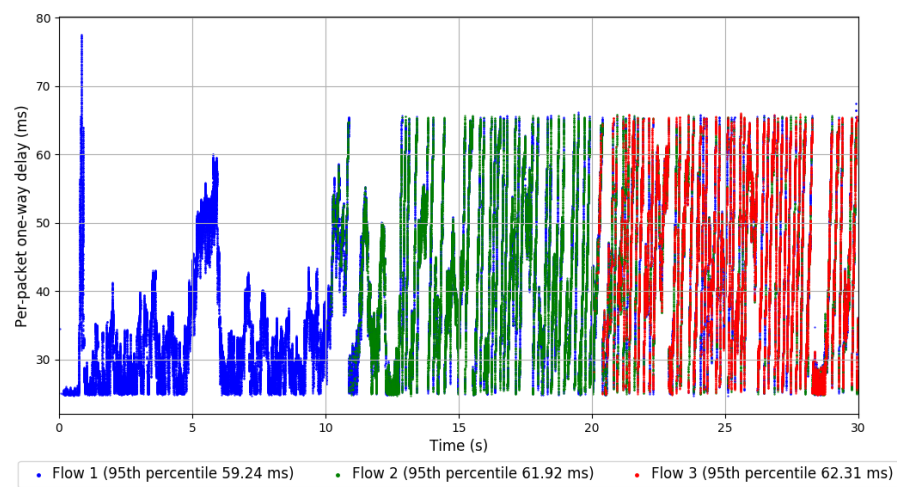
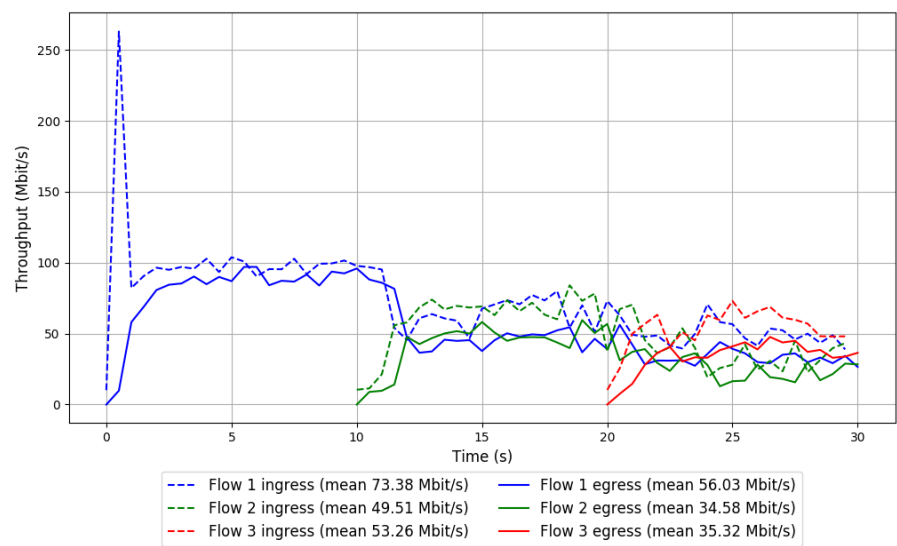


Run 6: Statistics of FillP

Start at: 2018-07-24 16:17:44
End at: 2018-07-24 16:18:14
Local clock offset: 2.211 ms
Remote clock offset: 17.508 ms

Below is generated by plot.py at 2018-07-24 17:50:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.75 Mbit/s
95th percentile per-packet one-way delay: 60.982 ms
Loss rate: 26.79%
-- Flow 1:
Average throughput: 56.03 Mbit/s
95th percentile per-packet one-way delay: 59.244 ms
Loss rate: 23.64%
-- Flow 2:
Average throughput: 34.58 Mbit/s
95th percentile per-packet one-way delay: 61.919 ms
Loss rate: 30.14%
-- Flow 3:
Average throughput: 35.32 Mbit/s
95th percentile per-packet one-way delay: 62.315 ms
Loss rate: 33.63%

Run 6: Report of FillP — Data Link

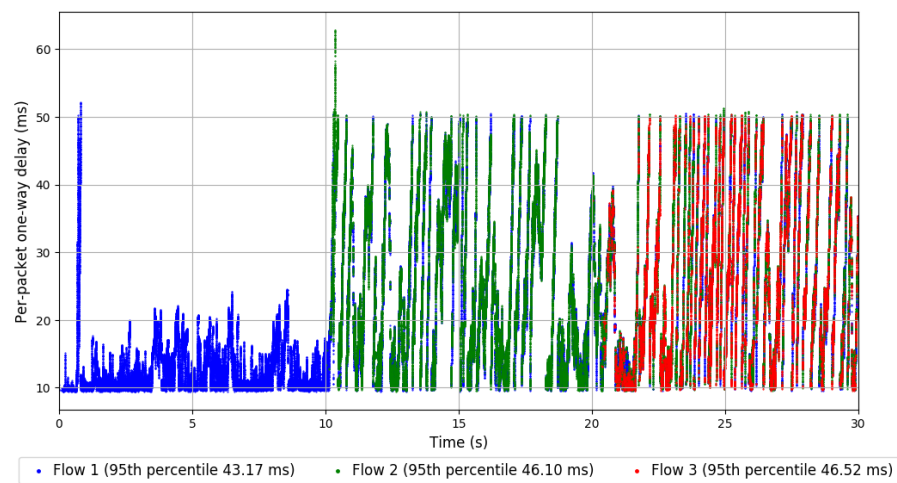
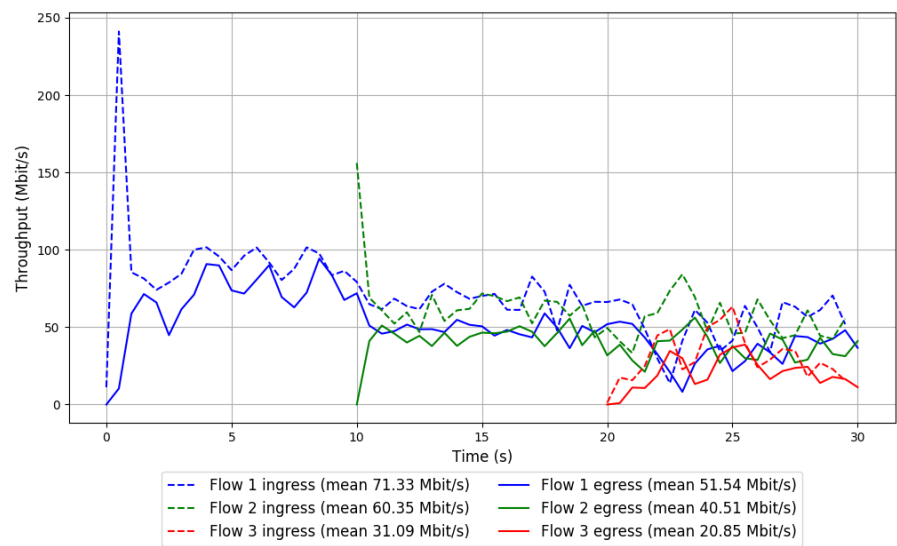


Run 7: Statistics of FillP

Start at: 2018-07-24 16:37:35
End at: 2018-07-24 16:38:05
Local clock offset: -2.211 ms
Remote clock offset: -4.118 ms

Below is generated by plot.py at 2018-07-24 17:50:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.43 Mbit/s
95th percentile per-packet one-way delay: 44.893 ms
Loss rate: 29.83%
-- Flow 1:
Average throughput: 51.54 Mbit/s
95th percentile per-packet one-way delay: 43.171 ms
Loss rate: 27.69%
-- Flow 2:
Average throughput: 40.51 Mbit/s
95th percentile per-packet one-way delay: 46.102 ms
Loss rate: 32.80%
-- Flow 3:
Average throughput: 20.85 Mbit/s
95th percentile per-packet one-way delay: 46.516 ms
Loss rate: 32.96%

Run 7: Report of FillP — Data Link

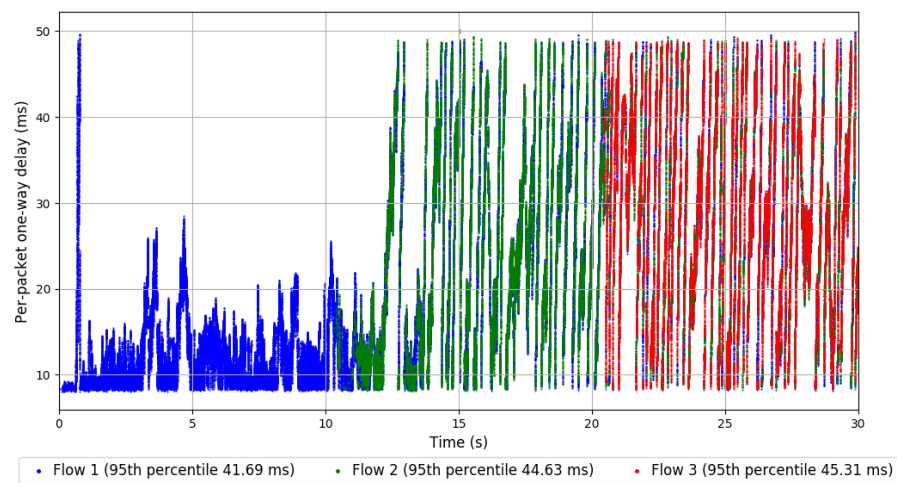
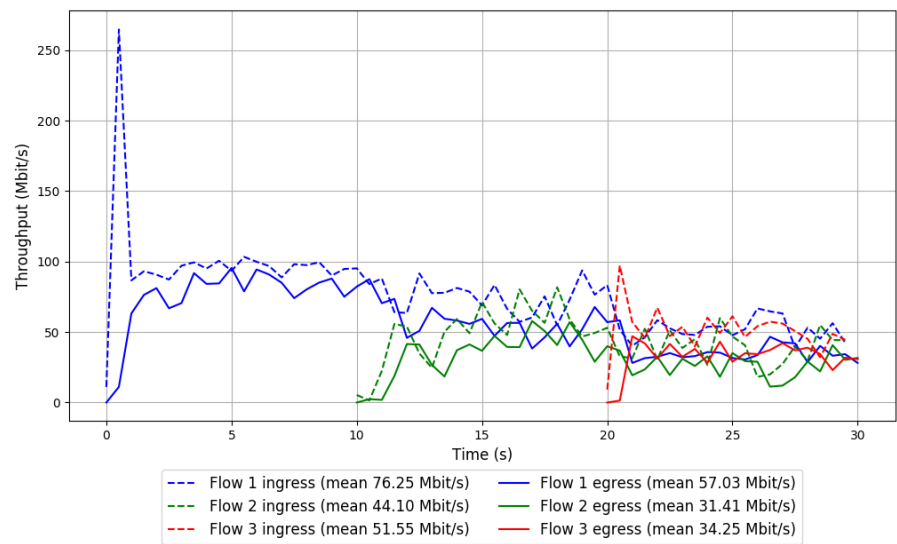


Run 8: Statistics of FillP

Start at: 2018-07-24 16:57:55
End at: 2018-07-24 16:58:25
Local clock offset: 0.579 ms
Remote clock offset: -4.985 ms

Below is generated by plot.py at 2018-07-24 17:50:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.04 Mbit/s
95th percentile per-packet one-way delay: 43.333 ms
Loss rate: 27.39%
-- Flow 1:
Average throughput: 57.03 Mbit/s
95th percentile per-packet one-way delay: 41.691 ms
Loss rate: 25.17%
-- Flow 2:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 44.629 ms
Loss rate: 29.49%
-- Flow 3:
Average throughput: 34.25 Mbit/s
95th percentile per-packet one-way delay: 45.308 ms
Loss rate: 33.69%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-24 17:17:42

End at: 2018-07-24 17:18:12

Local clock offset: 0.062 ms

Remote clock offset: 8.711 ms

Below is generated by plot.py at 2018-07-24 17:51:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.05 Mbit/s

95th percentile per-packet one-way delay: 62.447 ms

Loss rate: 29.45%

-- Flow 1:

Average throughput: 55.81 Mbit/s

95th percentile per-packet one-way delay: 61.092 ms

Loss rate: 24.76%

-- Flow 2:

Average throughput: 39.03 Mbit/s

95th percentile per-packet one-way delay: 63.516 ms

Loss rate: 34.26%

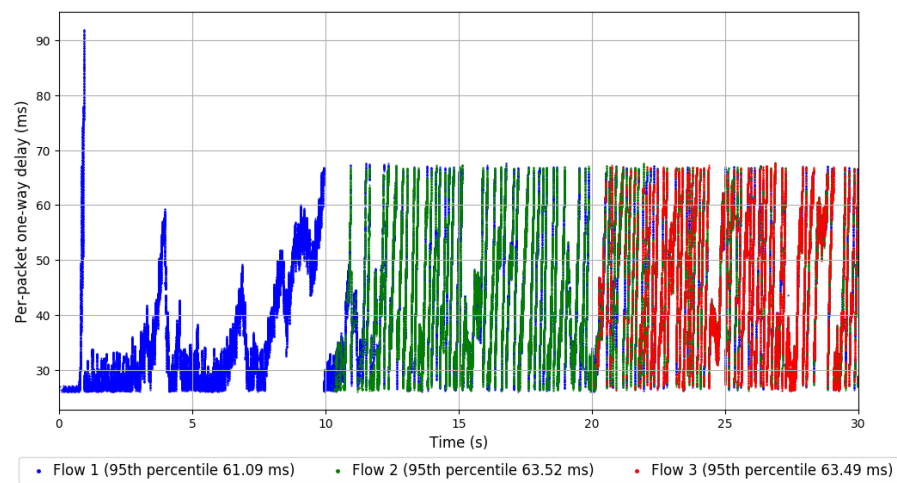
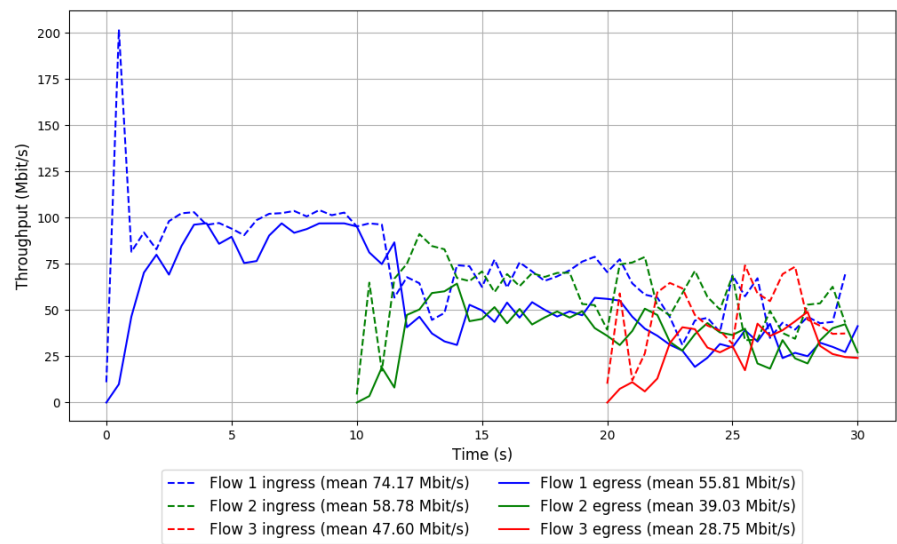
-- Flow 3:

Average throughput: 28.75 Mbit/s

95th percentile per-packet one-way delay: 63.491 ms

Loss rate: 39.57%

Run 9: Report of FillP — Data Link

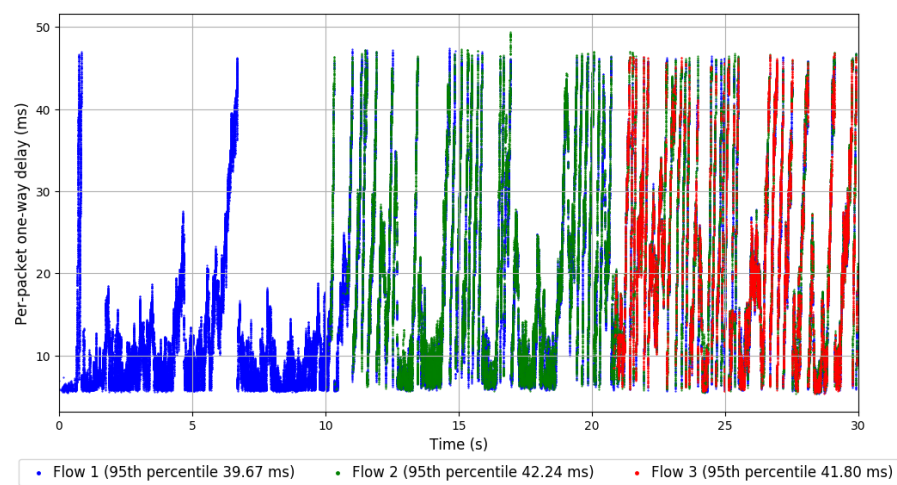
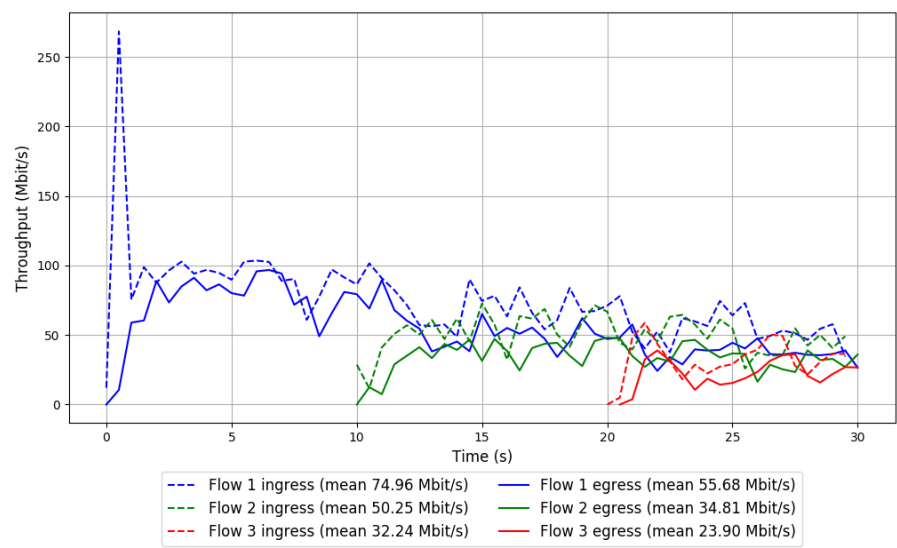


Run 10: Statistics of FillP

Start at: 2018-07-24 17:37:29
End at: 2018-07-24 17:37:59
Local clock offset: 0.989 ms
Remote clock offset: -12.607 ms

Below is generated by plot.py at 2018-07-24 17:51:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.29 Mbit/s
95th percentile per-packet one-way delay: 40.870 ms
Loss rate: 27.52%
-- Flow 1:
Average throughput: 55.68 Mbit/s
95th percentile per-packet one-way delay: 39.670 ms
Loss rate: 25.69%
-- Flow 2:
Average throughput: 34.81 Mbit/s
95th percentile per-packet one-way delay: 42.239 ms
Loss rate: 30.70%
-- Flow 3:
Average throughput: 23.90 Mbit/s
95th percentile per-packet one-way delay: 41.804 ms
Loss rate: 30.37%

Run 10: Report of FillP — Data Link

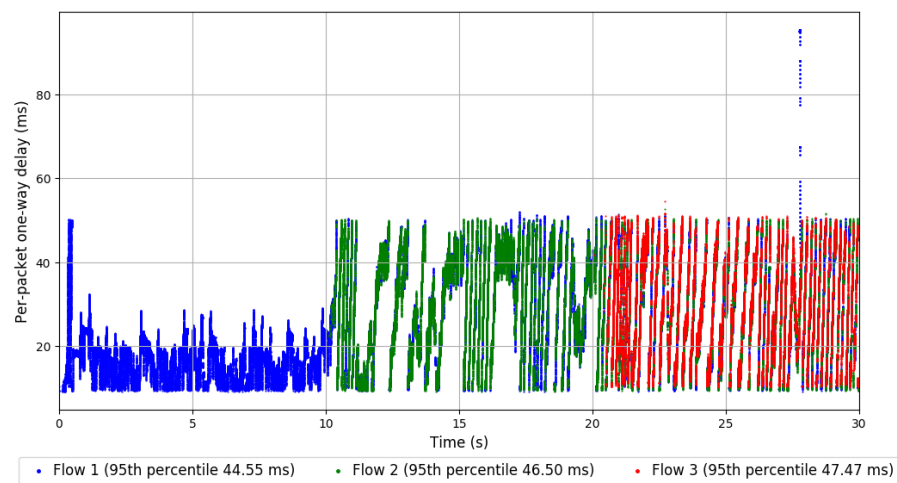
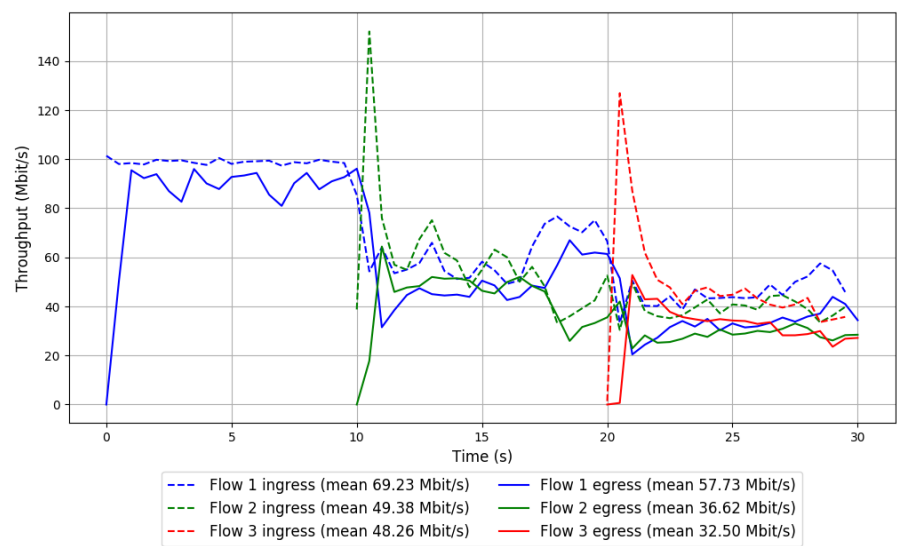


Run 1: Statistics of FillP-Sheep

Start at: 2018-07-24 14:32:30
End at: 2018-07-24 14:33:00
Local clock offset: 1.479 ms
Remote clock offset: -9.325 ms

Below is generated by plot.py at 2018-07-24 17:51:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.83 Mbit/s
95th percentile per-packet one-way delay: 45.692 ms
Loss rate: 21.39%
-- Flow 1:
Average throughput: 57.73 Mbit/s
95th percentile per-packet one-way delay: 44.552 ms
Loss rate: 16.61%
-- Flow 2:
Average throughput: 36.62 Mbit/s
95th percentile per-packet one-way delay: 46.502 ms
Loss rate: 25.89%
-- Flow 3:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 47.469 ms
Loss rate: 32.86%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-24 14:52:16

End at: 2018-07-24 14:52:46

Local clock offset: 3.085 ms

Remote clock offset: 5.493 ms

Below is generated by plot.py at 2018-07-24 17:51:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.41 Mbit/s

95th percentile per-packet one-way delay: 58.633 ms

Loss rate: 21.67%

-- Flow 1:

Average throughput: 55.63 Mbit/s

95th percentile per-packet one-way delay: 57.310 ms

Loss rate: 16.99%

-- Flow 2:

Average throughput: 40.72 Mbit/s

95th percentile per-packet one-way delay: 59.300 ms

Loss rate: 25.16%

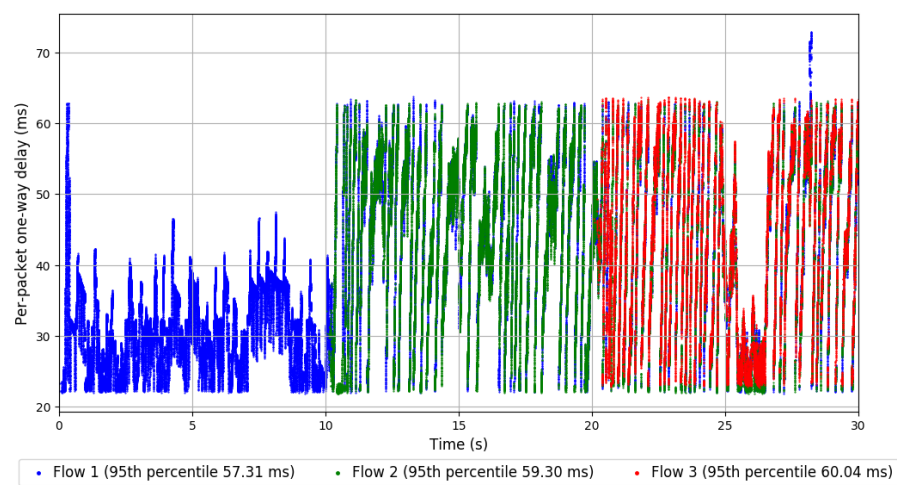
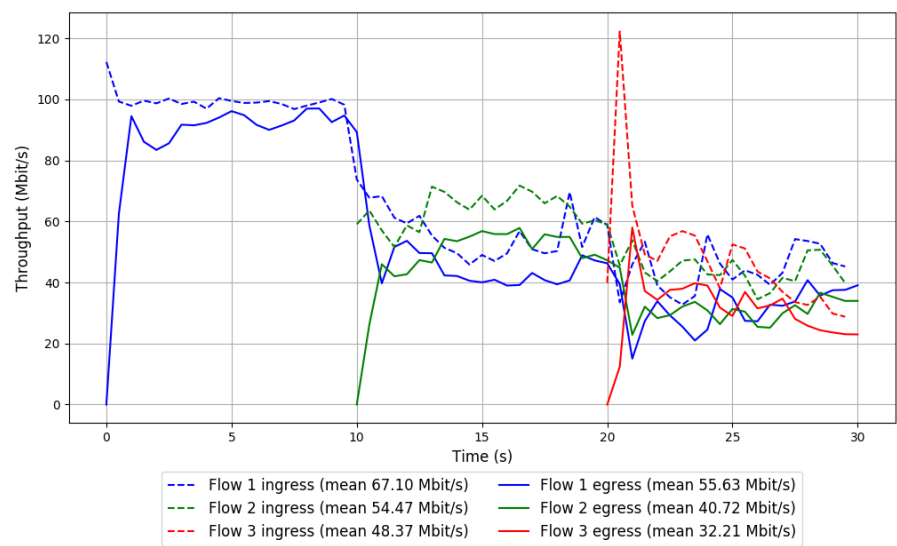
-- Flow 3:

Average throughput: 32.21 Mbit/s

95th percentile per-packet one-way delay: 60.040 ms

Loss rate: 33.38%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-24 15:12:11

End at: 2018-07-24 15:12:41

Local clock offset: 2.733 ms

Remote clock offset: 8.637 ms

Below is generated by plot.py at 2018-07-24 17:51:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.66 Mbit/s

95th percentile per-packet one-way delay: 59.596 ms

Loss rate: 21.28%

-- Flow 1:

Average throughput: 55.25 Mbit/s

95th percentile per-packet one-way delay: 57.354 ms

Loss rate: 17.80%

-- Flow 2:

Average throughput: 37.19 Mbit/s

95th percentile per-packet one-way delay: 60.920 ms

Loss rate: 24.57%

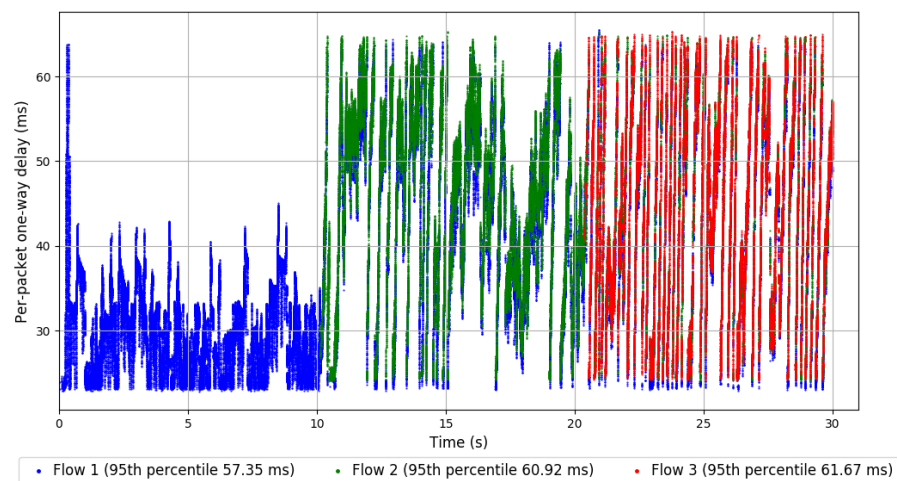
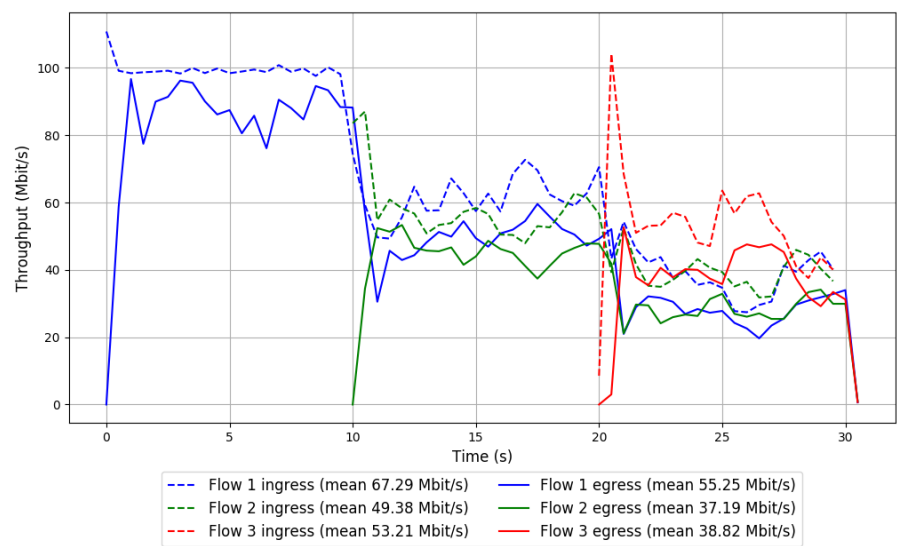
-- Flow 3:

Average throughput: 38.82 Mbit/s

95th percentile per-packet one-way delay: 61.669 ms

Loss rate: 28.40%

Run 3: Report of FillP-Sheep — Data Link

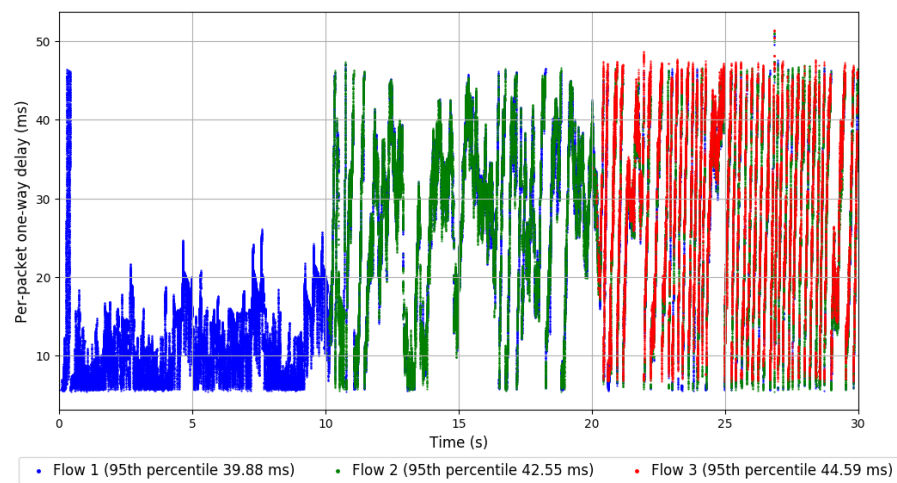
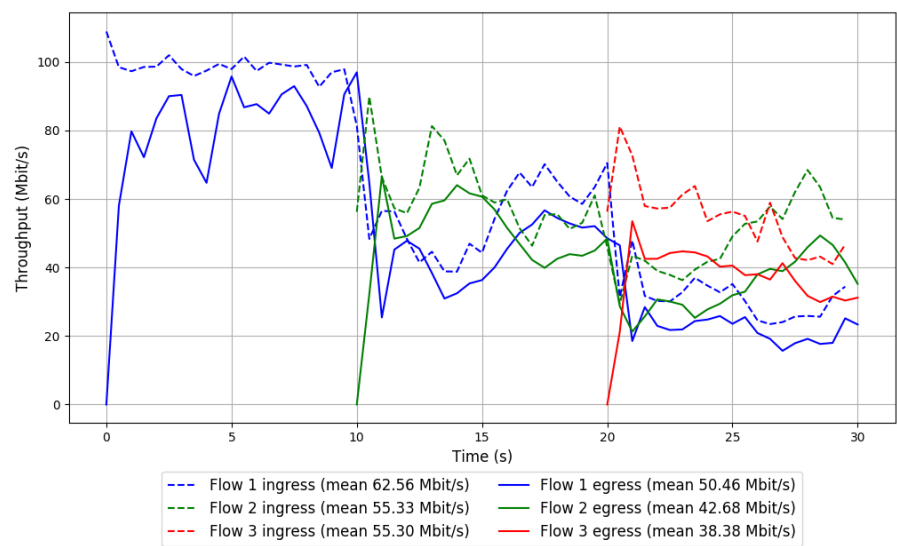


Run 4: Statistics of FillP-Sheep

Start at: 2018-07-24 15:32:25
End at: 2018-07-24 15:32:55
Local clock offset: 0.582 ms
Remote clock offset: -6.181 ms

Below is generated by plot.py at 2018-07-24 17:51:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.58 Mbit/s
95th percentile per-packet one-way delay: 42.100 ms
Loss rate: 22.19%
-- Flow 1:
Average throughput: 50.46 Mbit/s
95th percentile per-packet one-way delay: 39.881 ms
Loss rate: 19.29%
-- Flow 2:
Average throughput: 42.68 Mbit/s
95th percentile per-packet one-way delay: 42.549 ms
Loss rate: 22.85%
-- Flow 3:
Average throughput: 38.38 Mbit/s
95th percentile per-packet one-way delay: 44.594 ms
Loss rate: 30.74%

Run 4: Report of FillP-Sheep — Data Link

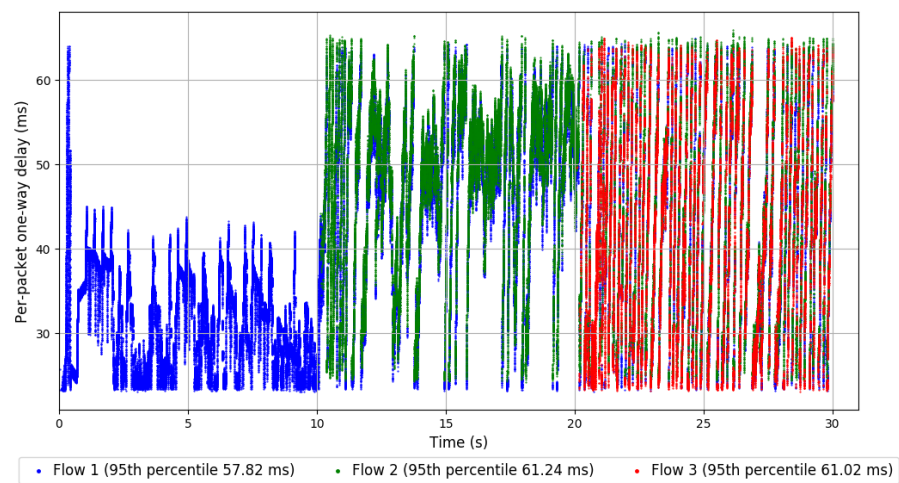
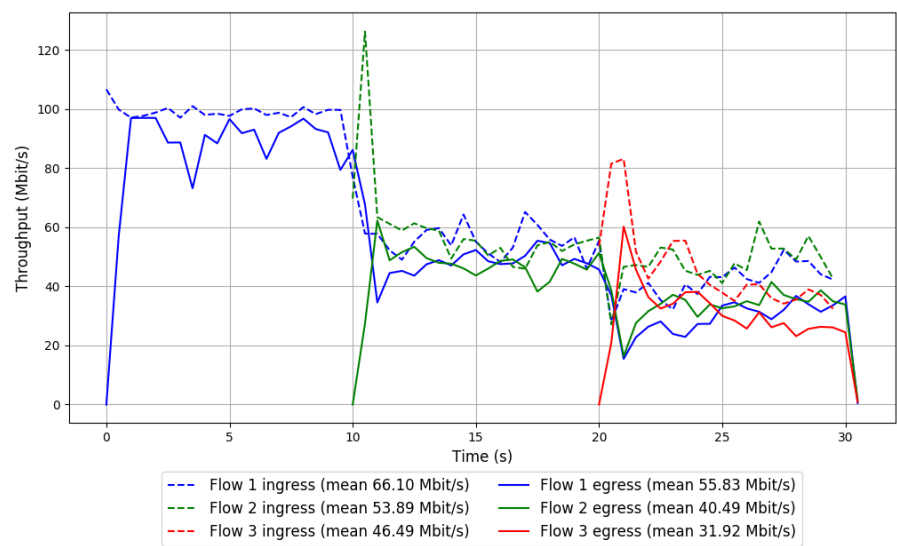


Run 5: Statistics of FillP-Sheep

Start at: 2018-07-24 15:52:55
End at: 2018-07-24 15:53:25
Local clock offset: 1.626 ms
Remote clock offset: 14.286 ms

Below is generated by plot.py at 2018-07-24 17:51:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.41 Mbit/s
95th percentile per-packet one-way delay: 59.708 ms
Loss rate: 20.36%
-- Flow 1:
Average throughput: 55.83 Mbit/s
95th percentile per-packet one-way delay: 57.821 ms
Loss rate: 15.44%
-- Flow 2:
Average throughput: 40.49 Mbit/s
95th percentile per-packet one-way delay: 61.240 ms
Loss rate: 24.73%
-- Flow 3:
Average throughput: 31.92 Mbit/s
95th percentile per-packet one-way delay: 61.020 ms
Loss rate: 31.27%

Run 5: Report of FillP-Sheep — Data Link

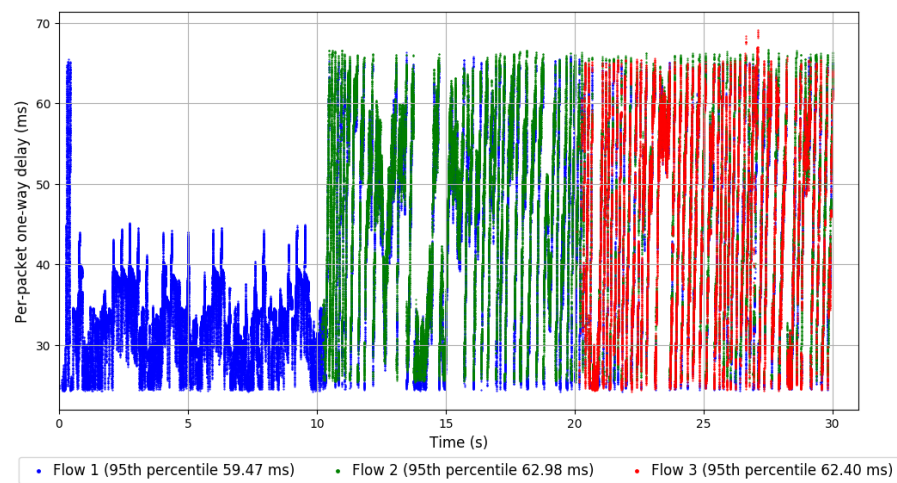
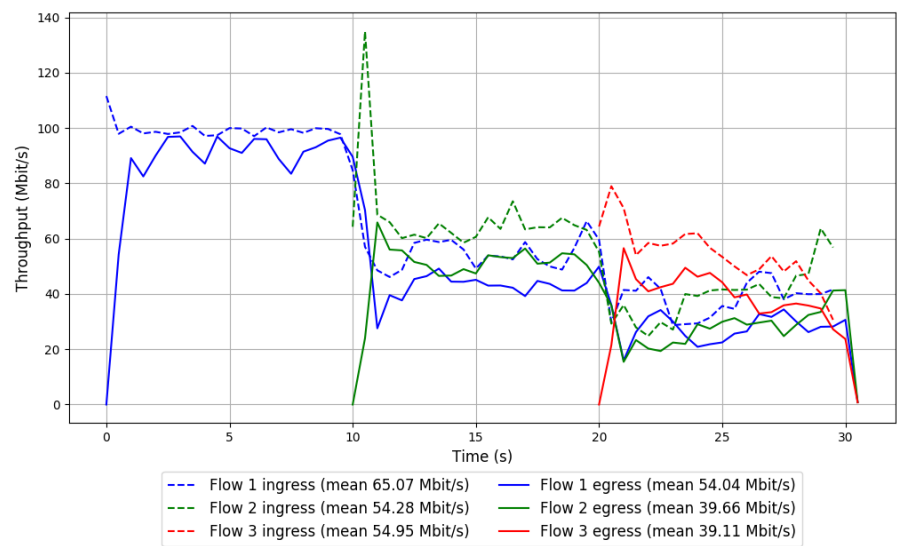


Run 6: Statistics of FillP-Sheep

Start at: 2018-07-24 16:13:05
End at: 2018-07-24 16:13:35
Local clock offset: 1.364 ms
Remote clock offset: 16.801 ms

Below is generated by plot.py at 2018-07-24 17:52:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.41 Mbit/s
95th percentile per-packet one-way delay: 61.456 ms
Loss rate: 21.68%
-- Flow 1:
Average throughput: 54.04 Mbit/s
95th percentile per-packet one-way delay: 59.466 ms
Loss rate: 16.84%
-- Flow 2:
Average throughput: 39.66 Mbit/s
95th percentile per-packet one-way delay: 62.980 ms
Loss rate: 26.83%
-- Flow 3:
Average throughput: 39.11 Mbit/s
95th percentile per-packet one-way delay: 62.397 ms
Loss rate: 28.75%

Run 6: Report of FillP-Sheep — Data Link

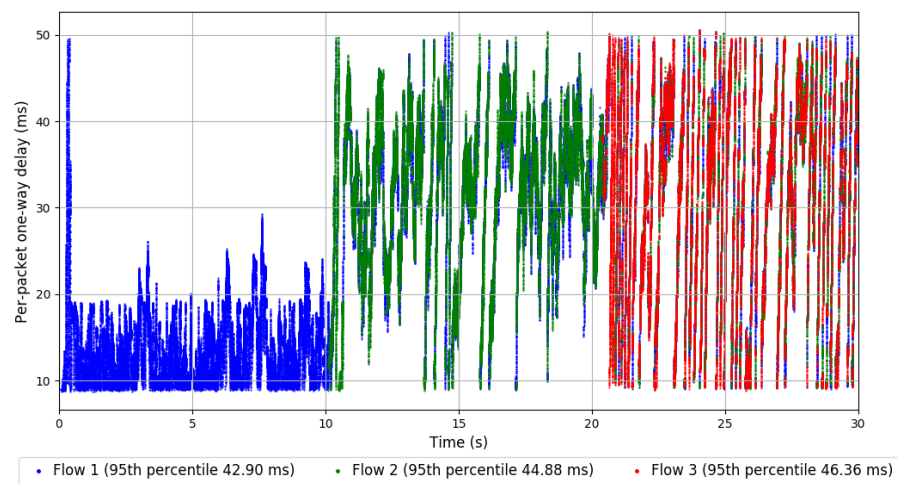
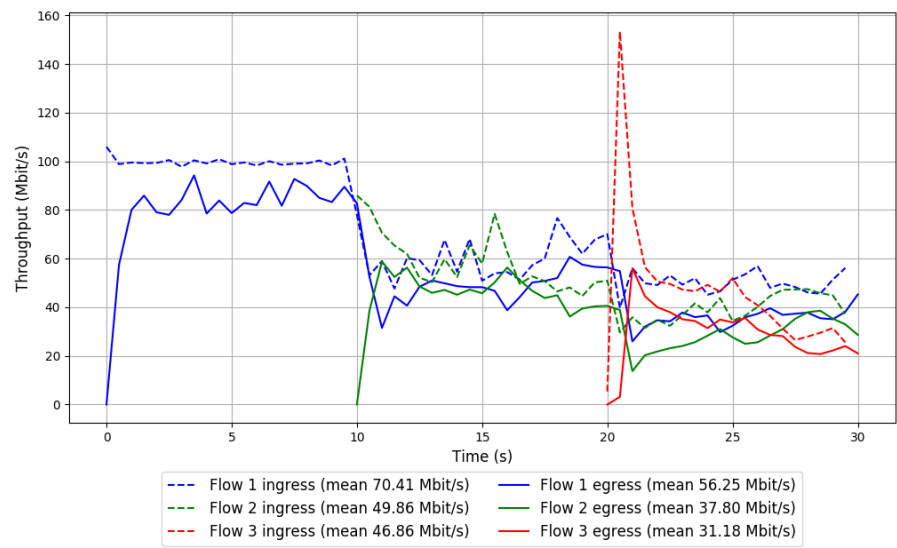


Run 7: Statistics of FillP-Sheep

Start at: 2018-07-24 16:32:57
End at: 2018-07-24 16:33:27
Local clock offset: 0.351 ms
Remote clock offset: -0.602 ms

Below is generated by plot.py at 2018-07-24 17:52:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.55 Mbit/s
95th percentile per-packet one-way delay: 44.179 ms
Loss rate: 23.09%
-- Flow 1:
Average throughput: 56.25 Mbit/s
95th percentile per-packet one-way delay: 42.902 ms
Loss rate: 20.04%
-- Flow 2:
Average throughput: 37.80 Mbit/s
95th percentile per-packet one-way delay: 44.879 ms
Loss rate: 24.09%
-- Flow 3:
Average throughput: 31.18 Mbit/s
95th percentile per-packet one-way delay: 46.358 ms
Loss rate: 34.78%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-24 16:53:15

End at: 2018-07-24 16:53:45

Local clock offset: -2.283 ms

Remote clock offset: -5.9 ms

Below is generated by plot.py at 2018-07-24 17:52:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.01 Mbit/s

95th percentile per-packet one-way delay: 45.708 ms

Loss rate: 24.58%

-- Flow 1:

Average throughput: 54.85 Mbit/s

95th percentile per-packet one-way delay: 44.421 ms

Loss rate: 21.69%

-- Flow 2:

Average throughput: 37.45 Mbit/s

95th percentile per-packet one-way delay: 46.297 ms

Loss rate: 25.55%

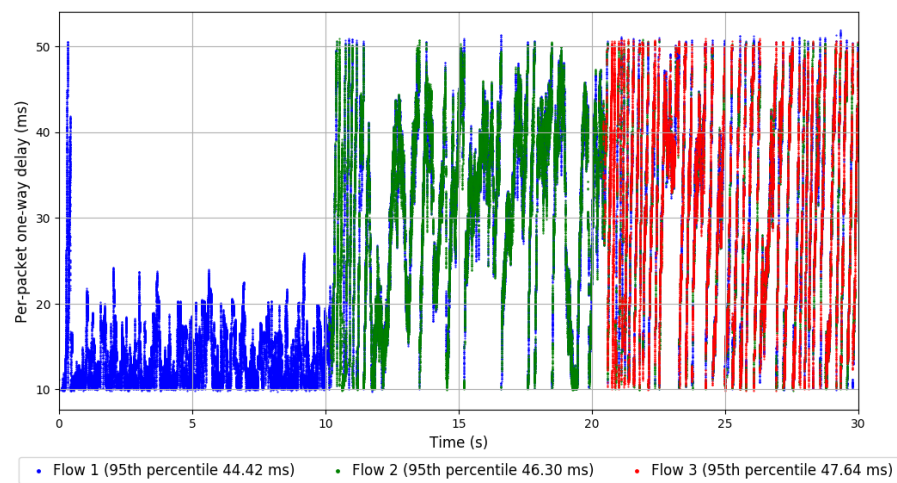
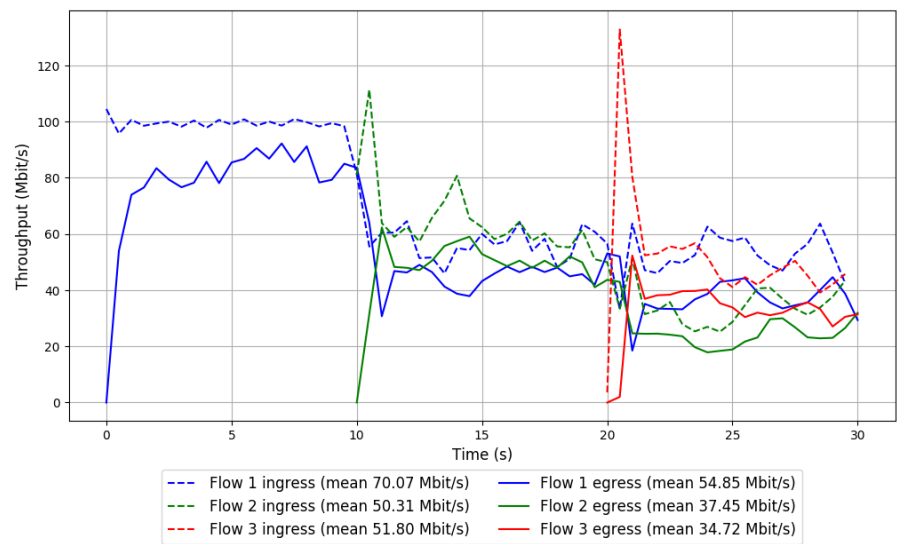
-- Flow 3:

Average throughput: 34.72 Mbit/s

95th percentile per-packet one-way delay: 47.642 ms

Loss rate: 34.46%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-24 17:13:08

End at: 2018-07-24 17:13:38

Local clock offset: -0.409 ms

Remote clock offset: 8.482 ms

Below is generated by plot.py at 2018-07-24 17:52:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.66 Mbit/s

95th percentile per-packet one-way delay: 60.497 ms

Loss rate: 21.81%

-- Flow 1:

Average throughput: 52.82 Mbit/s

95th percentile per-packet one-way delay: 58.694 ms

Loss rate: 17.40%

-- Flow 2:

Average throughput: 40.78 Mbit/s

95th percentile per-packet one-way delay: 61.283 ms

Loss rate: 25.55%

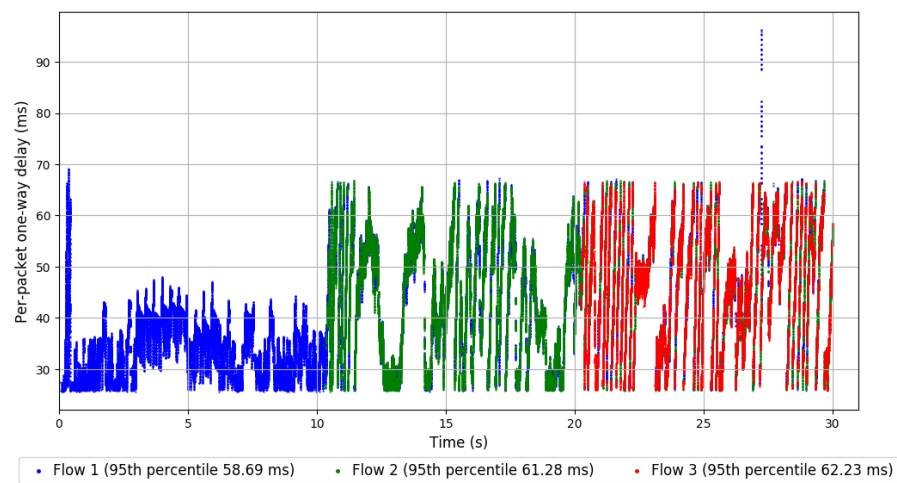
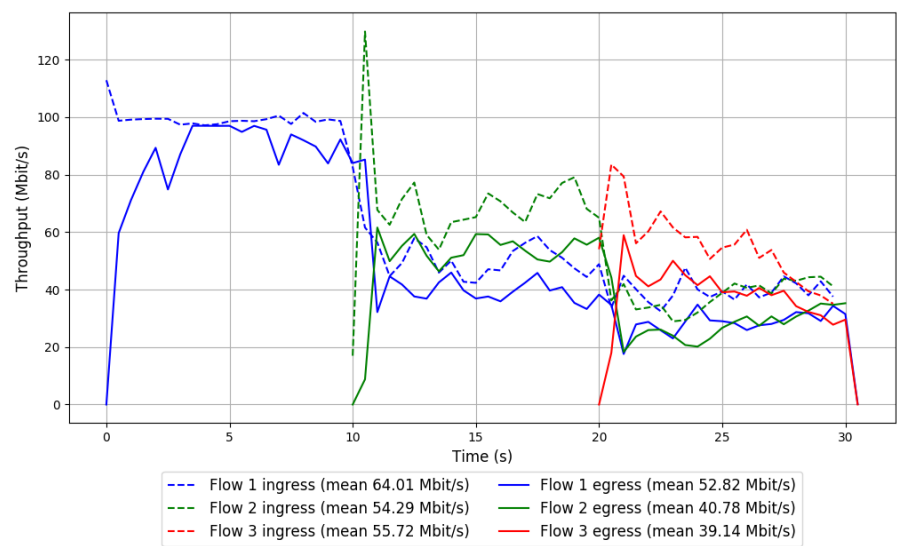
-- Flow 3:

Average throughput: 39.14 Mbit/s

95th percentile per-packet one-way delay: 62.232 ms

Loss rate: 29.77%

Run 9: Report of FillP-Sheep — Data Link

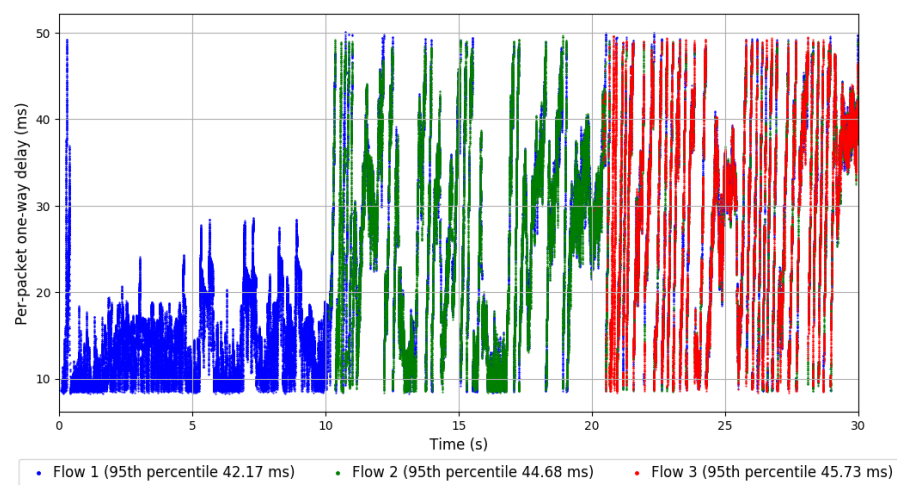
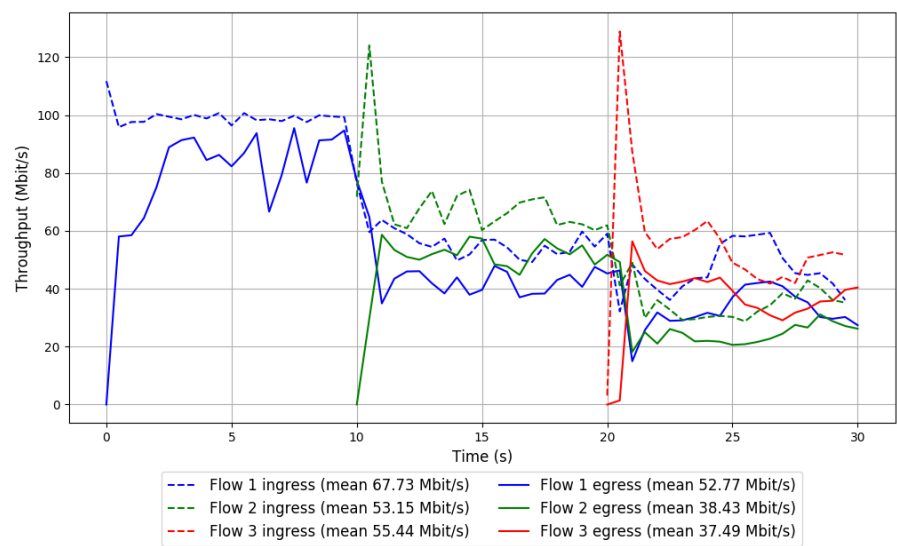


Run 10: Statistics of FillP-Sheep

Start at: 2018-07-24 17:32:50
End at: 2018-07-24 17:33:20
Local clock offset: 0.857 ms
Remote clock offset: -9.636 ms

Below is generated by plot.py at 2018-07-24 17:52:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.76 Mbit/s
95th percentile per-packet one-way delay: 43.862 ms
Loss rate: 25.28%
-- Flow 1:
Average throughput: 52.77 Mbit/s
95th percentile per-packet one-way delay: 42.174 ms
Loss rate: 22.07%
-- Flow 2:
Average throughput: 38.43 Mbit/s
95th percentile per-packet one-way delay: 44.683 ms
Loss rate: 27.68%
-- Flow 3:
Average throughput: 37.49 Mbit/s
95th percentile per-packet one-way delay: 45.728 ms
Loss rate: 32.48%

Run 10: Report of FillP-Sheep — Data Link

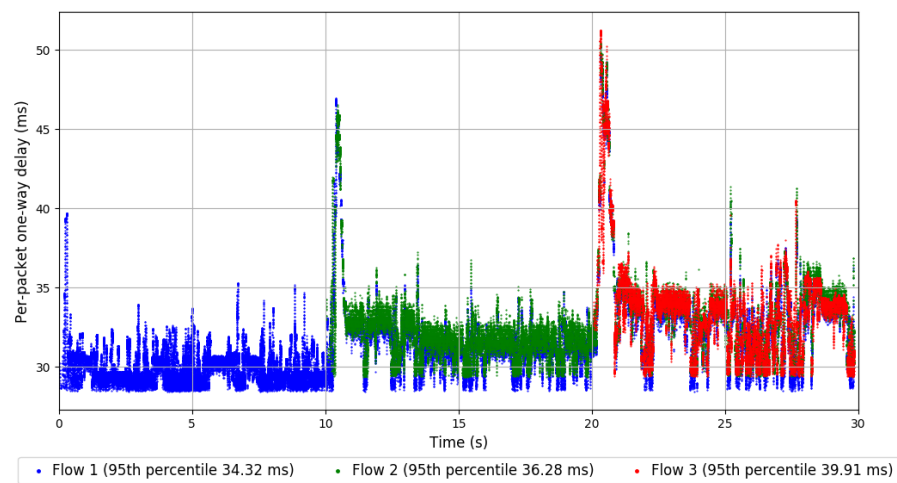
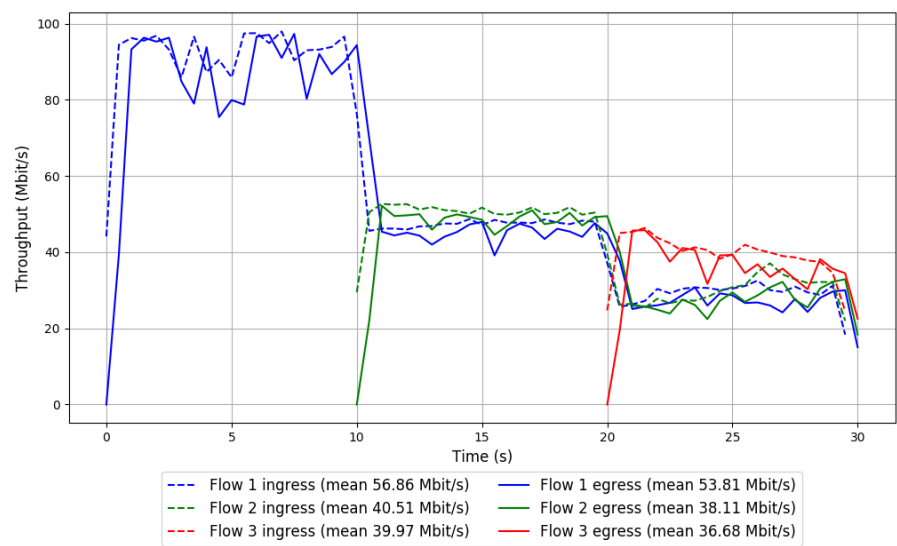


```
Run 1: Statistics of Indigo

Start at: 2018-07-24 14:39:30
End at: 2018-07-24 14:40:00
Local clock offset: 2.299 ms
Remote clock offset: 10.183 ms

# Below is generated by plot.py at 2018-07-24 17:52:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 35.498 ms
Loss rate: 5.90%
-- Flow 1:
Average throughput: 53.81 Mbit/s
95th percentile per-packet one-way delay: 34.316 ms
Loss rate: 5.35%
-- Flow 2:
Average throughput: 38.11 Mbit/s
95th percentile per-packet one-way delay: 36.283 ms
Loss rate: 5.92%
-- Flow 3:
Average throughput: 36.68 Mbit/s
95th percentile per-packet one-way delay: 39.905 ms
Loss rate: 8.26%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-24 14:59:20

End at: 2018-07-24 14:59:50

Local clock offset: 2.752 ms

Remote clock offset: 6.51 ms

Below is generated by plot.py at 2018-07-24 17:52:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.73 Mbit/s

95th percentile per-packet one-way delay: 28.545 ms

Loss rate: 6.09%

-- Flow 1:

Average throughput: 52.23 Mbit/s

95th percentile per-packet one-way delay: 27.815 ms

Loss rate: 5.77%

-- Flow 2:

Average throughput: 34.82 Mbit/s

95th percentile per-packet one-way delay: 30.199 ms

Loss rate: 6.30%

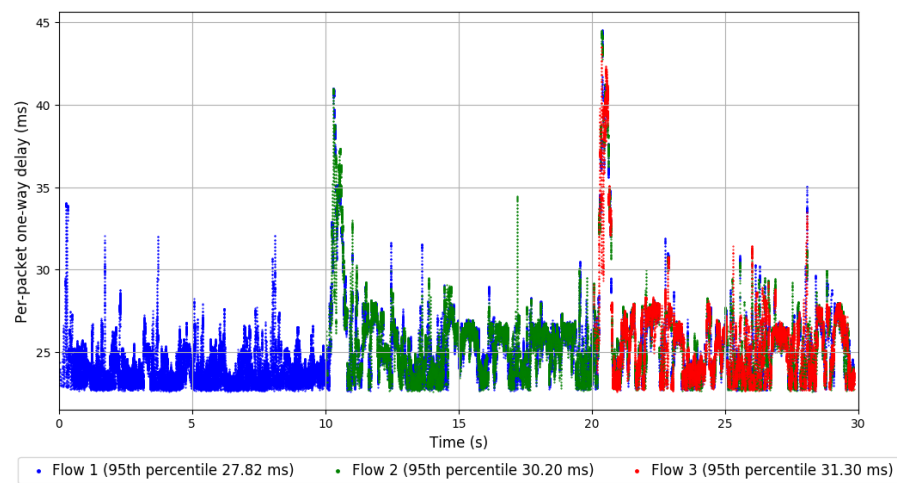
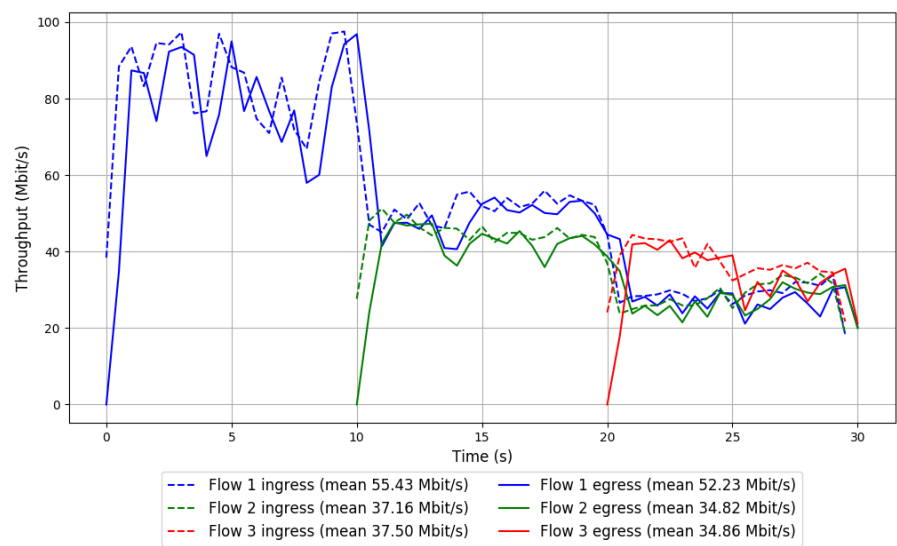
-- Flow 3:

Average throughput: 34.86 Mbit/s

95th percentile per-packet one-way delay: 31.301 ms

Loss rate: 7.10%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-24 15:19:33

End at: 2018-07-24 15:20:03

Local clock offset: -0.771 ms

Remote clock offset: 5.543 ms

Below is generated by plot.py at 2018-07-24 17:52:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.51 Mbit/s

95th percentile per-packet one-way delay: 29.950 ms

Loss rate: 14.84%

-- Flow 1:

Average throughput: 46.94 Mbit/s

95th percentile per-packet one-way delay: 29.026 ms

Loss rate: 14.05%

-- Flow 2:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 30.502 ms

Loss rate: 15.80%

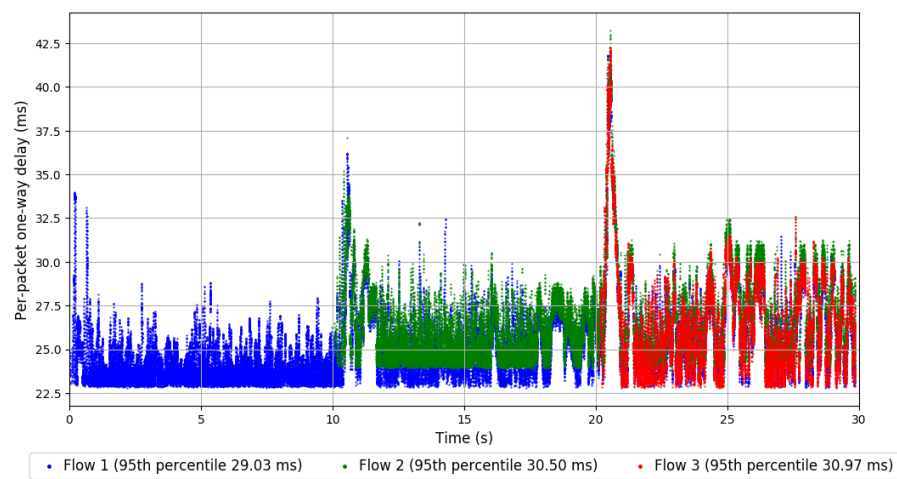
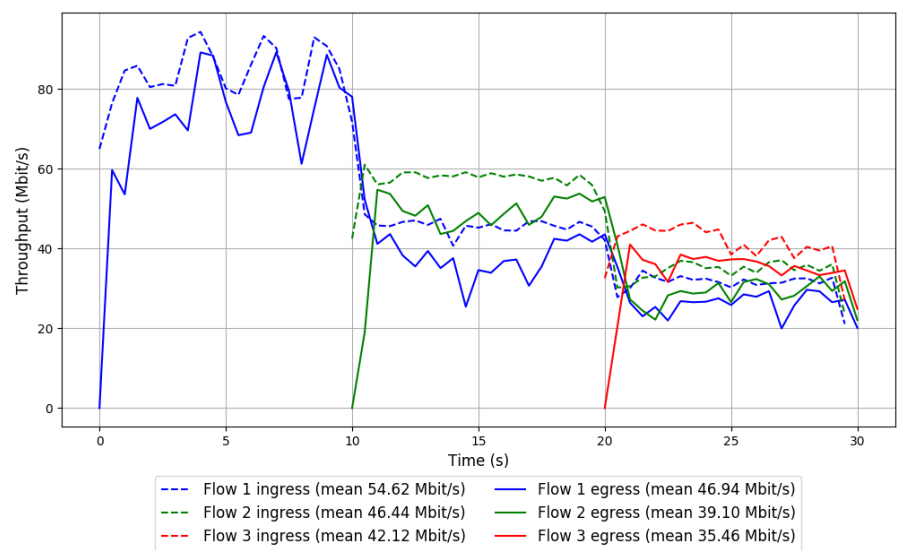
-- Flow 3:

Average throughput: 35.46 Mbit/s

95th percentile per-packet one-way delay: 30.974 ms

Loss rate: 15.79%

Run 3: Report of Indigo — Data Link

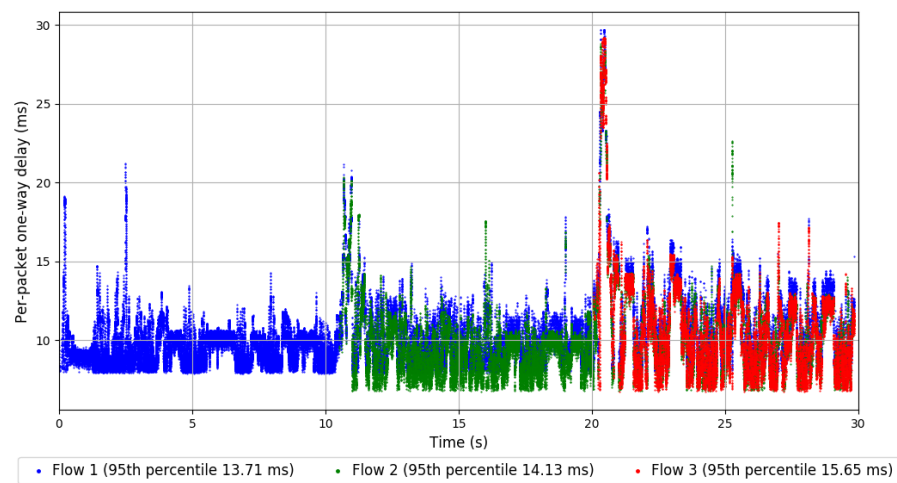
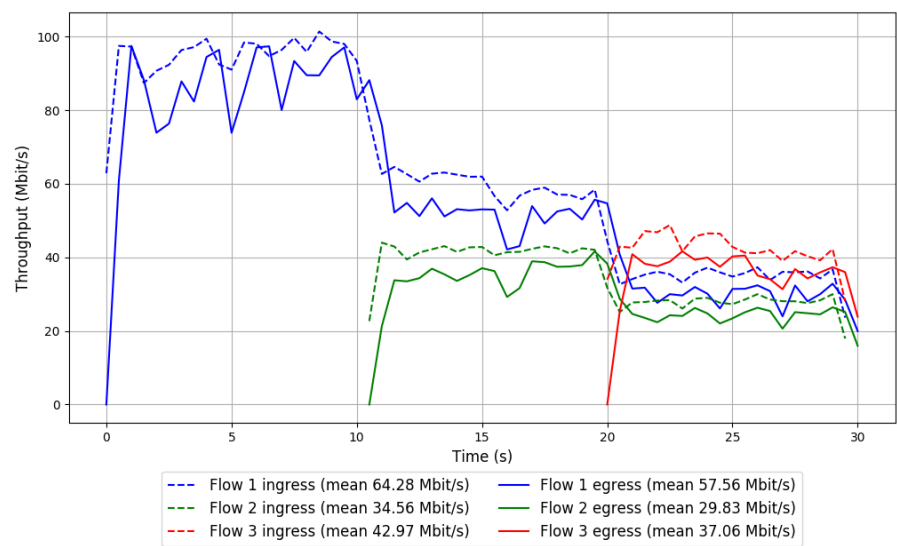


Run 4: Statistics of Indigo

Start at: 2018-07-24 15:39:48
End at: 2018-07-24 15:40:18
Local clock offset: 1.256 ms
Remote clock offset: -3.803 ms

Below is generated by plot.py at 2018-07-24 17:53:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.01 Mbit/s
95th percentile per-packet one-way delay: 14.131 ms
Loss rate: 11.62%
-- Flow 1:
Average throughput: 57.56 Mbit/s
95th percentile per-packet one-way delay: 13.711 ms
Loss rate: 10.43%
-- Flow 2:
Average throughput: 29.83 Mbit/s
95th percentile per-packet one-way delay: 14.129 ms
Loss rate: 13.68%
-- Flow 3:
Average throughput: 37.06 Mbit/s
95th percentile per-packet one-way delay: 15.650 ms
Loss rate: 13.76%

Run 4: Report of Indigo — Data Link

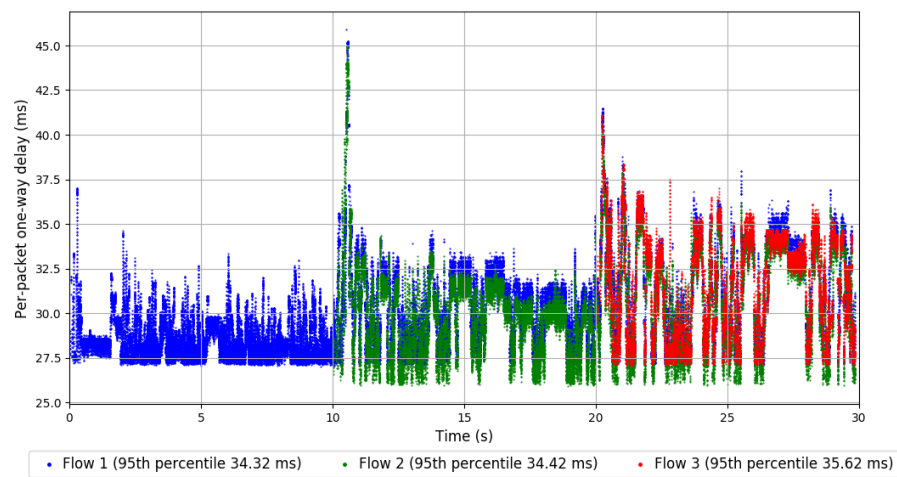
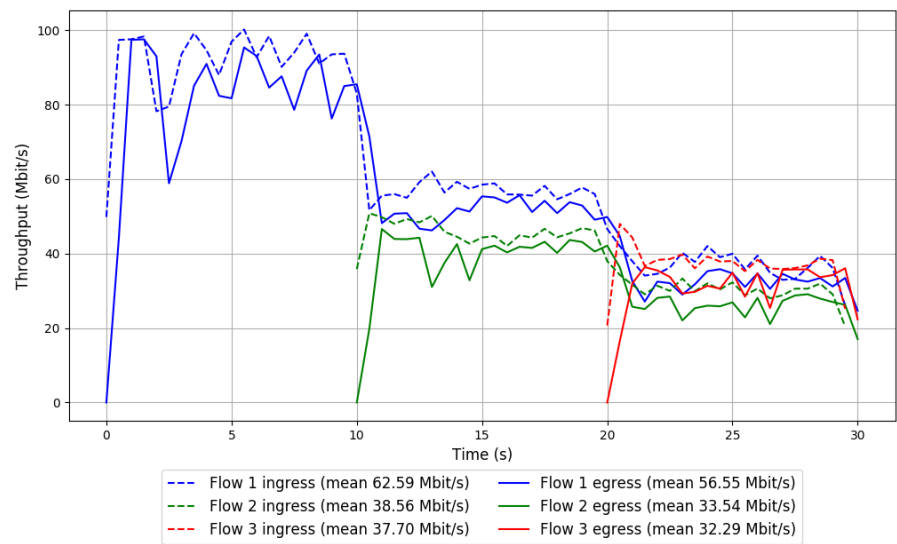


Run 5: Statistics of Indigo

Start at: 2018-07-24 16:00:11
End at: 2018-07-24 16:00:41
Local clock offset: 0.782 ms
Remote clock offset: 16.403 ms

Below is generated by plot.py at 2018-07-24 17:53:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.38 Mbit/s
95th percentile per-packet one-way delay: 34.577 ms
Loss rate: 11.08%
-- Flow 1:
Average throughput: 56.55 Mbit/s
95th percentile per-packet one-way delay: 34.317 ms
Loss rate: 9.65%
-- Flow 2:
Average throughput: 33.54 Mbit/s
95th percentile per-packet one-way delay: 34.416 ms
Loss rate: 13.01%
-- Flow 3:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 35.621 ms
Loss rate: 14.37%

Run 5: Report of Indigo — Data Link

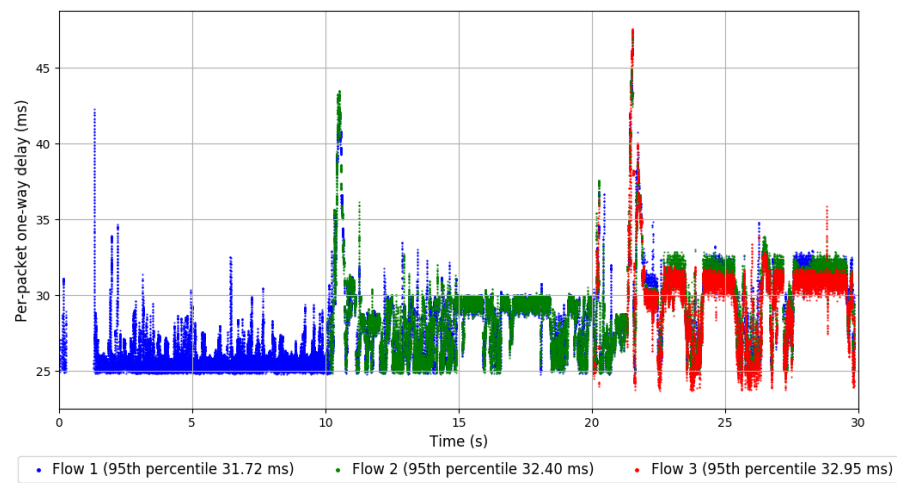
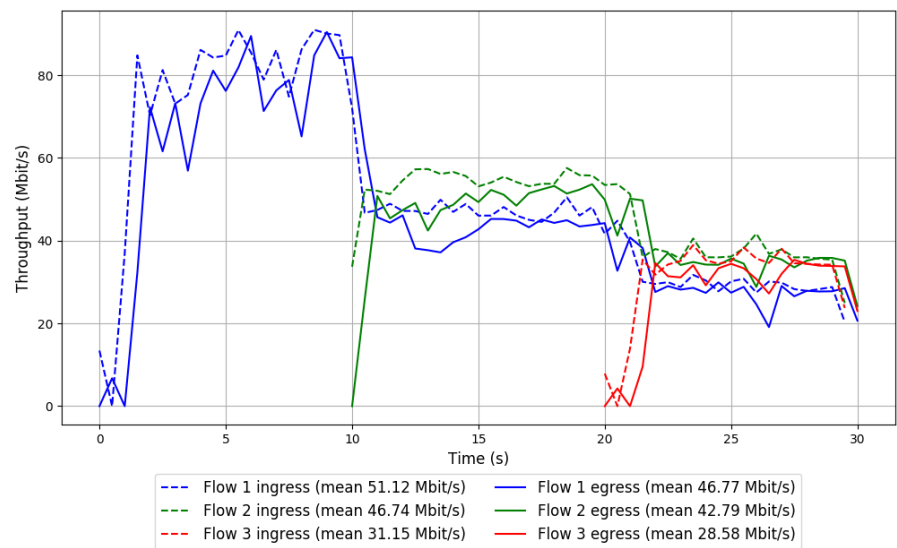


Run 6: Statistics of Indigo

Start at: 2018-07-24 16:20:10
End at: 2018-07-24 16:20:40
Local clock offset: 1.818 ms
Remote clock offset: 17.214 ms

Below is generated by plot.py at 2018-07-24 17:53:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.55 Mbit/s
95th percentile per-packet one-way delay: 32.106 ms
Loss rate: 8.45%
-- Flow 1:
Average throughput: 46.77 Mbit/s
95th percentile per-packet one-way delay: 31.719 ms
Loss rate: 8.50%
-- Flow 2:
Average throughput: 42.79 Mbit/s
95th percentile per-packet one-way delay: 32.400 ms
Loss rate: 8.44%
-- Flow 3:
Average throughput: 28.58 Mbit/s
95th percentile per-packet one-way delay: 32.954 ms
Loss rate: 8.24%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-24 16:40:07

End at: 2018-07-24 16:40:37

Local clock offset: 0.793 ms

Remote clock offset: -3.3 ms

Below is generated by plot.py at 2018-07-24 17:53:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.56 Mbit/s

95th percentile per-packet one-way delay: 15.319 ms

Loss rate: 11.27%

-- Flow 1:

Average throughput: 51.64 Mbit/s

95th percentile per-packet one-way delay: 14.275 ms

Loss rate: 9.94%

-- Flow 2:

Average throughput: 36.05 Mbit/s

95th percentile per-packet one-way delay: 16.283 ms

Loss rate: 13.05%

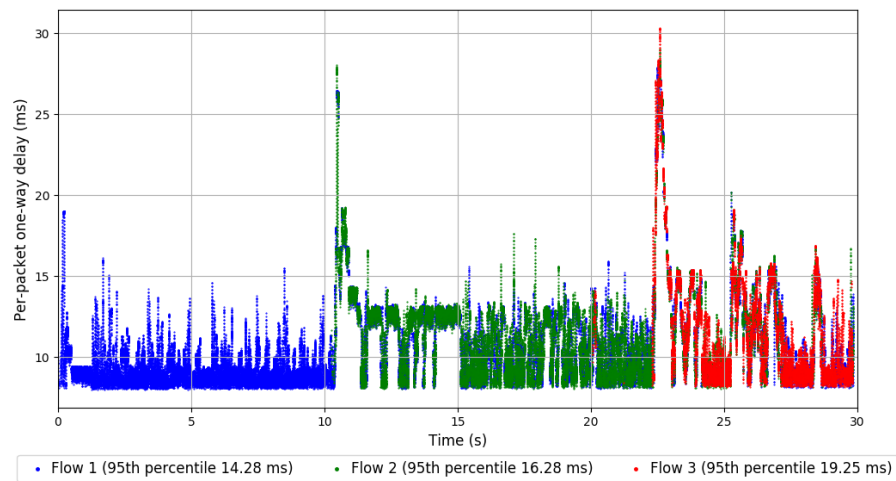
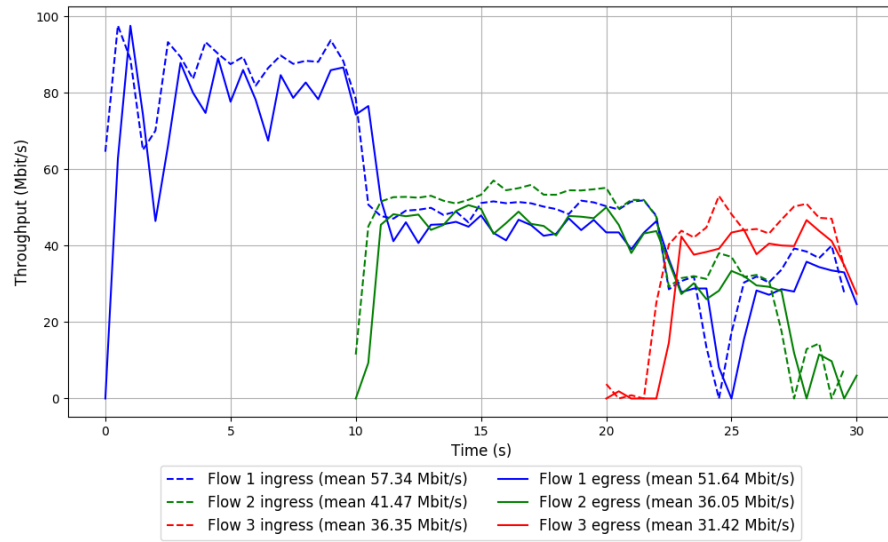
-- Flow 3:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: 19.251 ms

Loss rate: 13.58%

Run 7: Report of Indigo — Data Link

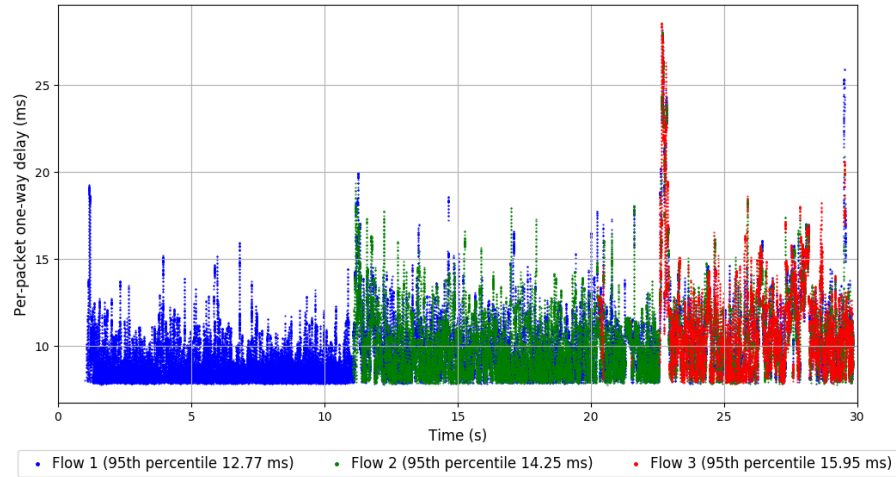
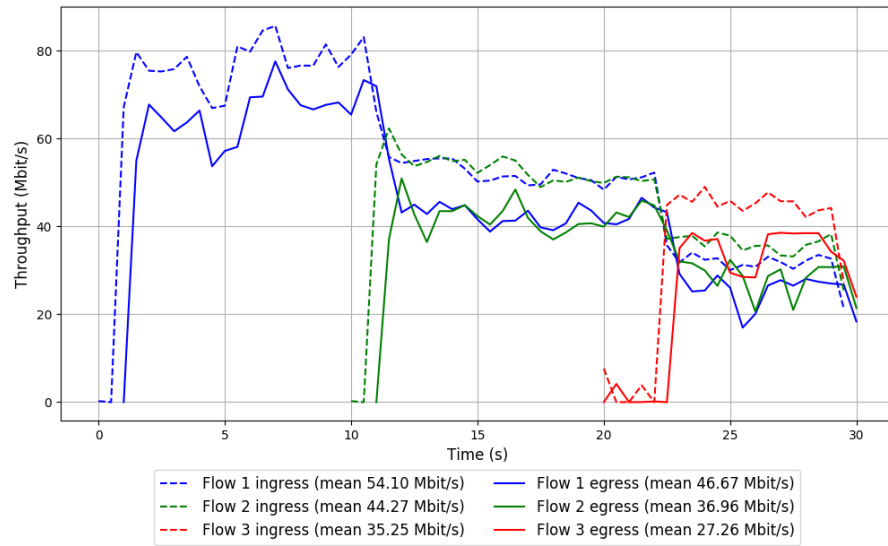


Run 8: Statistics of Indigo

Start at: 2018-07-24 17:00:19
End at: 2018-07-24 17:00:49
Local clock offset: -0.297 ms
Remote clock offset: -6.379 ms

```
# Below is generated by plot.py at 2018-07-24 17:53:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.82 Mbit/s
95th percentile per-packet one-way delay: 13.924 ms
Loss rate: 18.62%
-- Flow 1:
Average throughput: 46.67 Mbit/s
95th percentile per-packet one-way delay: 12.767 ms
Loss rate: 16.62%
-- Flow 2:
Average throughput: 36.96 Mbit/s
95th percentile per-packet one-way delay: 14.247 ms
Loss rate: 20.71%
-- Flow 3:
Average throughput: 27.26 Mbit/s
95th percentile per-packet one-way delay: 15.951 ms
Loss rate: 22.72%
```

Run 8: Report of Indigo — Data Link

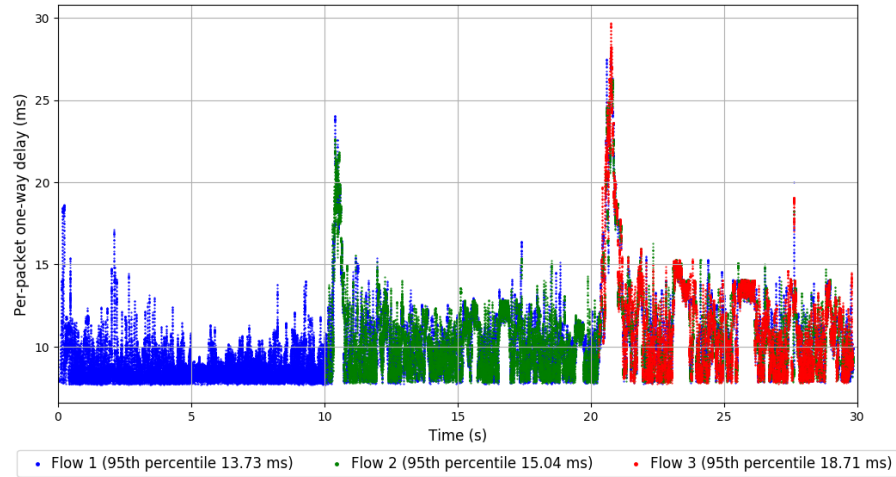
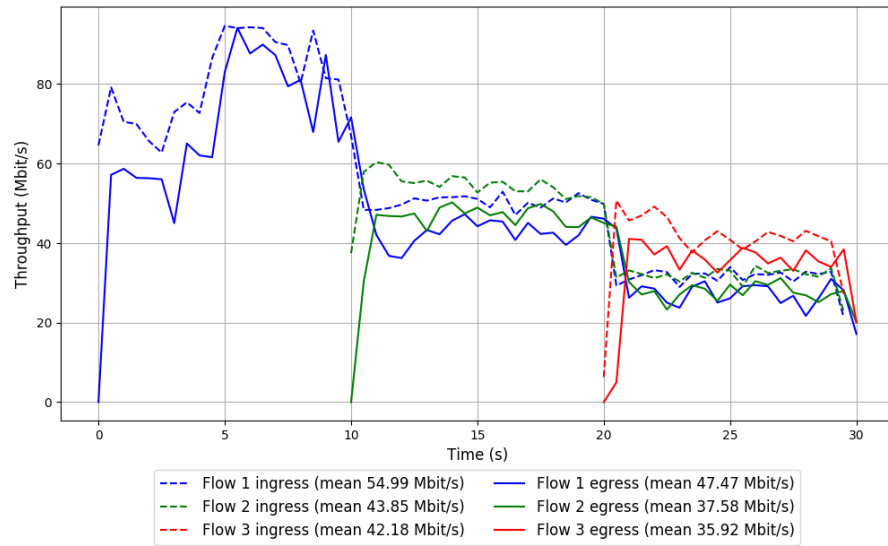


Run 9: Statistics of Indigo

Start at: 2018-07-24 17:20:05
End at: 2018-07-24 17:20:35
Local clock offset: -3.906 ms
Remote clock offset: -14.059 ms

Below is generated by plot.py at 2018-07-24 17:53:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.91 Mbit/s
95th percentile per-packet one-way delay: 14.576 ms
Loss rate: 14.02%
-- Flow 1:
Average throughput: 47.47 Mbit/s
95th percentile per-packet one-way delay: 13.727 ms
Loss rate: 13.67%
-- Flow 2:
Average throughput: 37.58 Mbit/s
95th percentile per-packet one-way delay: 15.041 ms
Loss rate: 14.29%
-- Flow 3:
Average throughput: 35.92 Mbit/s
95th percentile per-packet one-way delay: 18.709 ms
Loss rate: 14.84%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-24 17:39:55

End at: 2018-07-24 17:40:25

Local clock offset: 0.215 ms

Remote clock offset: -9.83 ms

Below is generated by plot.py at 2018-07-24 17:54:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.56 Mbit/s

95th percentile per-packet one-way delay: 14.493 ms

Loss rate: 12.78%

-- Flow 1:

Average throughput: 50.55 Mbit/s

95th percentile per-packet one-way delay: 14.105 ms

Loss rate: 11.30%

-- Flow 2:

Average throughput: 39.98 Mbit/s

95th percentile per-packet one-way delay: 15.152 ms

Loss rate: 14.32%

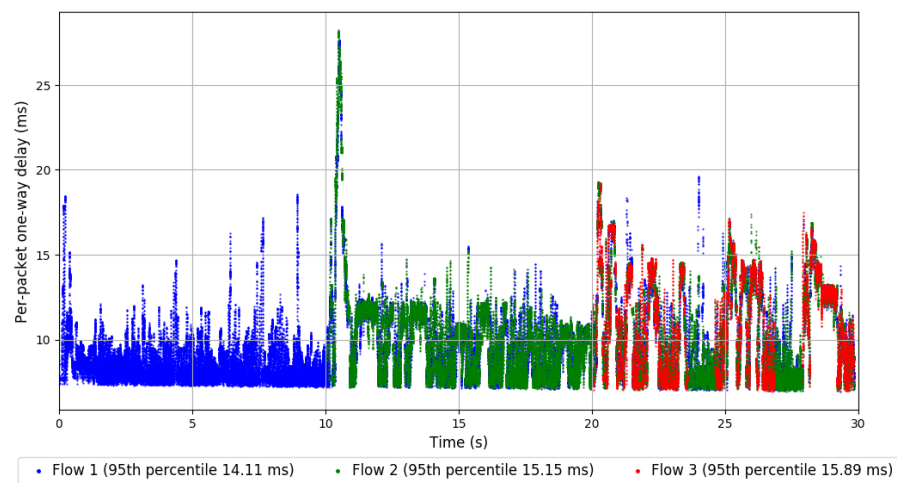
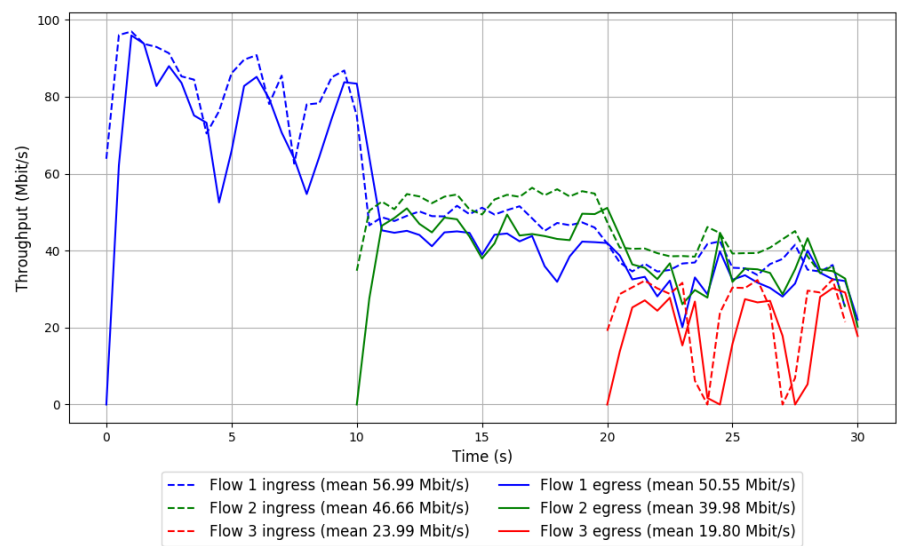
-- Flow 3:

Average throughput: 19.80 Mbit/s

95th percentile per-packet one-way delay: 15.892 ms

Loss rate: 17.47%

Run 10: Report of Indigo — Data Link

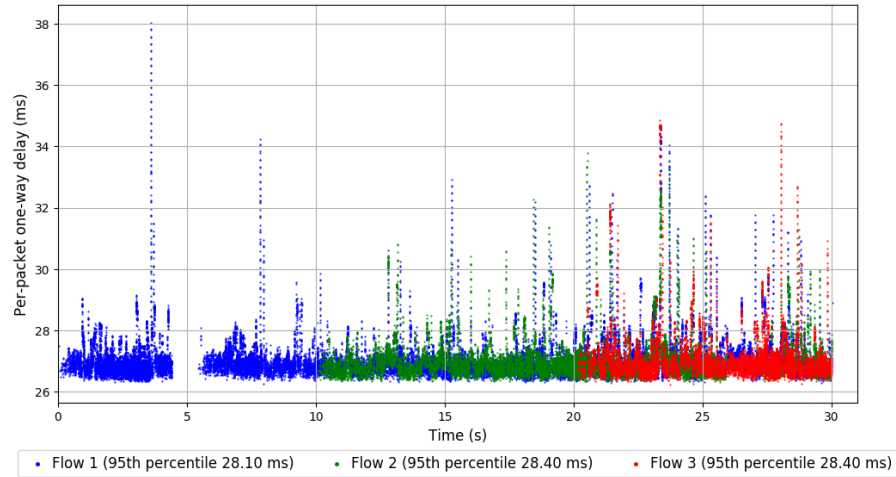
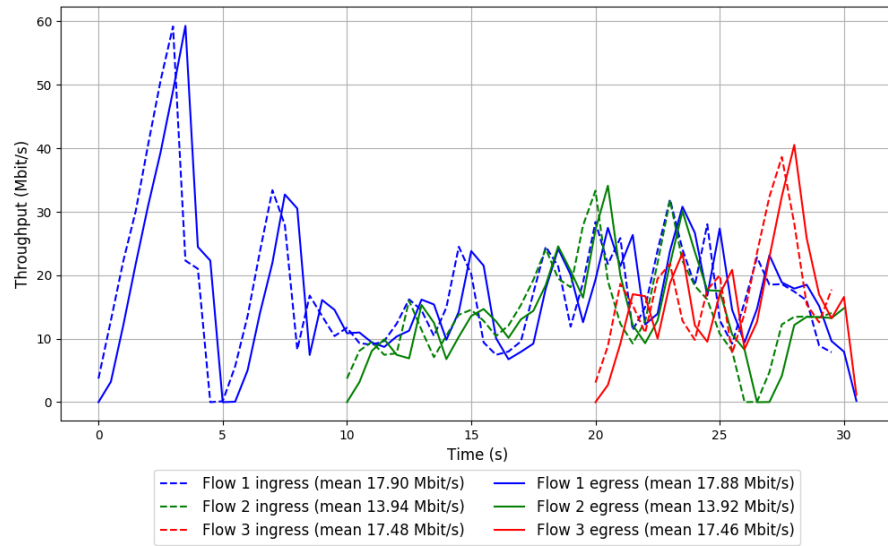


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-24 14:35:57
End at: 2018-07-24 14:36:27
Local clock offset: 2.161 ms
Remote clock offset: 7.148 ms

# Below is generated by plot.py at 2018-07-24 17:54:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.94 Mbit/s
95th percentile per-packet one-way delay: 28.228 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 17.88 Mbit/s
95th percentile per-packet one-way delay: 28.101 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 13.92 Mbit/s
95th percentile per-packet one-way delay: 28.399 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 17.46 Mbit/s
95th percentile per-packet one-way delay: 28.400 ms
Loss rate: 0.13%
```

Run 1: Report of LEDBAT — Data Link

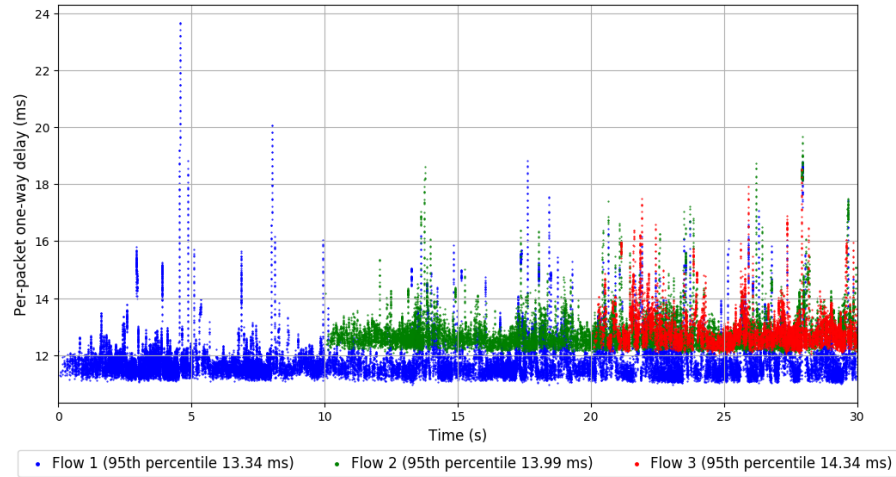
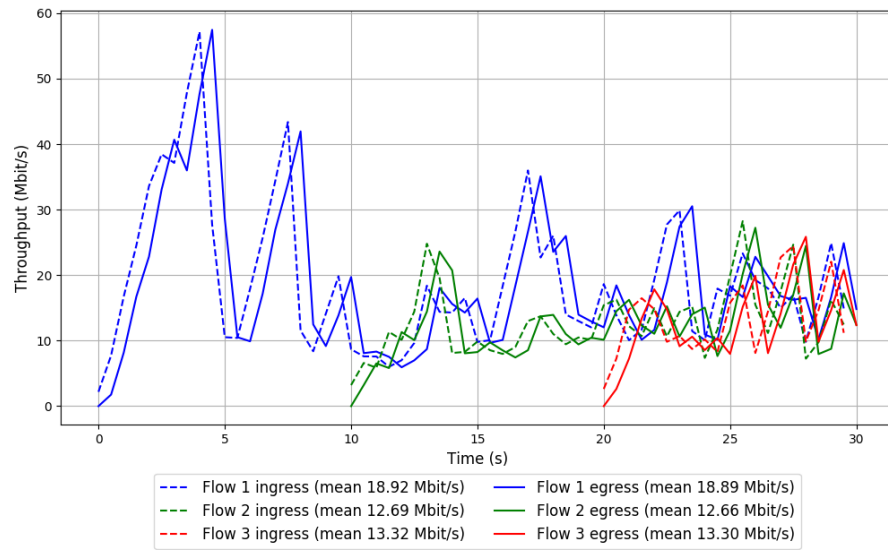


Run 2: Statistics of LEDBAT

Start at: 2018-07-24 14:55:43
End at: 2018-07-24 14:56:13
Local clock offset: 3.112 ms
Remote clock offset: -5.135 ms

Below is generated by plot.py at 2018-07-24 17:54:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.73 Mbit/s
95th percentile per-packet one-way delay: 13.806 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 18.89 Mbit/s
95th percentile per-packet one-way delay: 13.343 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 12.66 Mbit/s
95th percentile per-packet one-way delay: 13.987 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 13.30 Mbit/s
95th percentile per-packet one-way delay: 14.339 ms
Loss rate: 0.18%

Run 2: Report of LEDBAT — Data Link

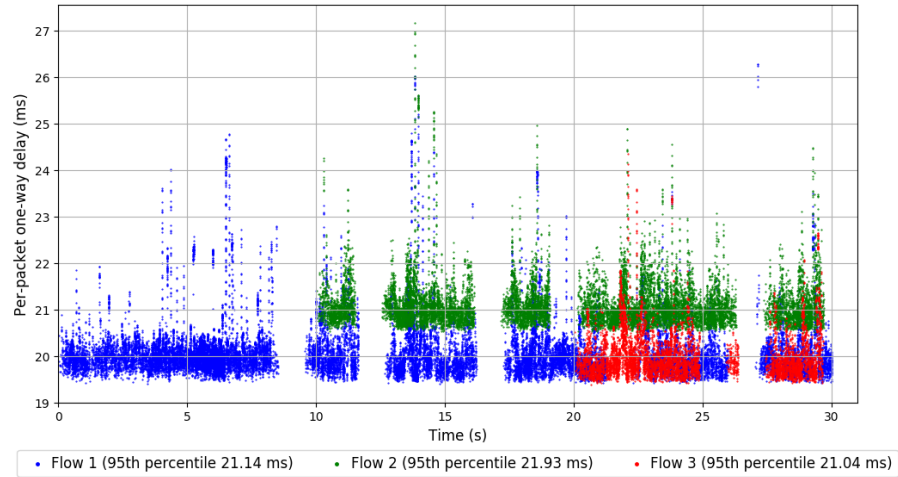
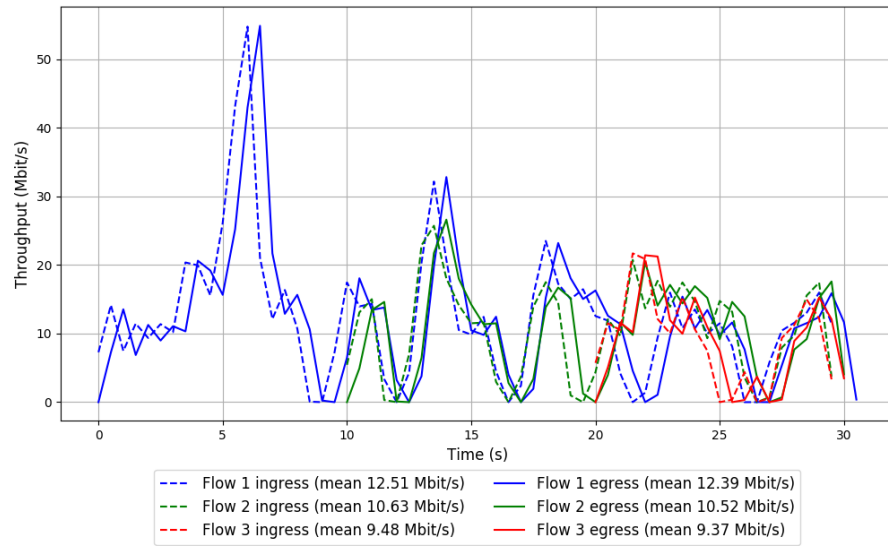


Run 3: Statistics of LEDBAT

Start at: 2018-07-24 15:15:54
End at: 2018-07-24 15:16:24
Local clock offset: 1.852 ms
Remote clock offset: 4.479 ms

```
# Below is generated by plot.py at 2018-07-24 17:54:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.29 Mbit/s
95th percentile per-packet one-way delay: 21.614 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 21.141 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 21.934 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 9.37 Mbit/s
95th percentile per-packet one-way delay: 21.038 ms
Loss rate: 1.22%
```

Run 3: Report of LEDBAT — Data Link

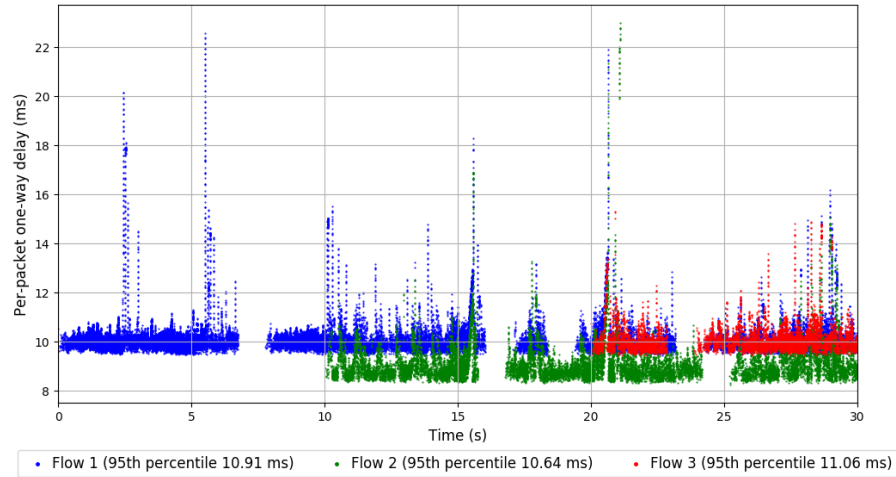
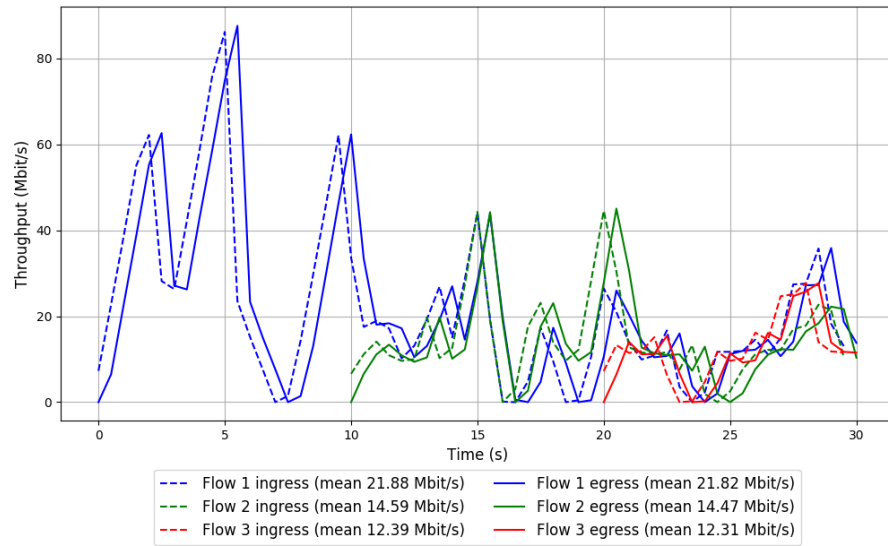


Run 4: Statistics of LEDBAT

Start at: 2018-07-24 15:36:01
End at: 2018-07-24 15:36:31
Local clock offset: 2.205 ms
Remote clock offset: -1.592 ms

Below is generated by plot.py at 2018-07-24 17:54:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 35.55 Mbit/s
95th percentile per-packet one-way delay: 10.895 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 21.82 Mbit/s
95th percentile per-packet one-way delay: 10.907 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 14.47 Mbit/s
95th percentile per-packet one-way delay: 10.645 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 11.062 ms
Loss rate: 0.62%

Run 4: Report of LEDBAT — Data Link

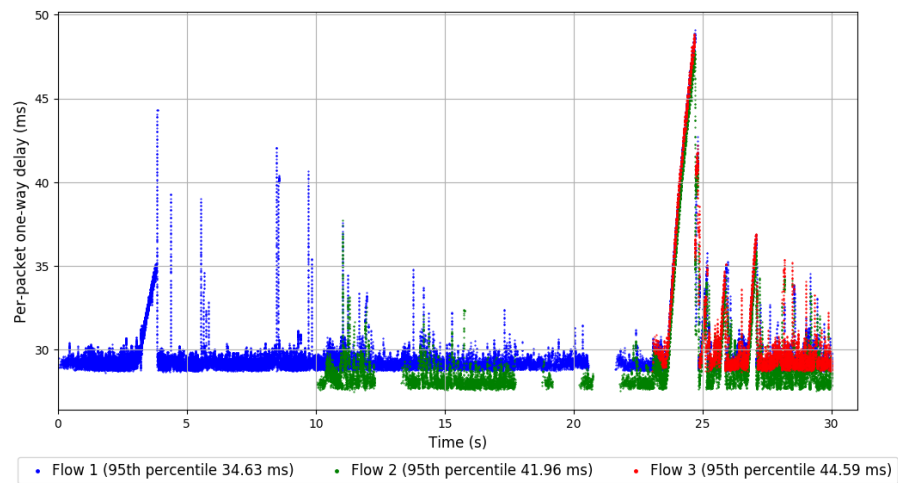
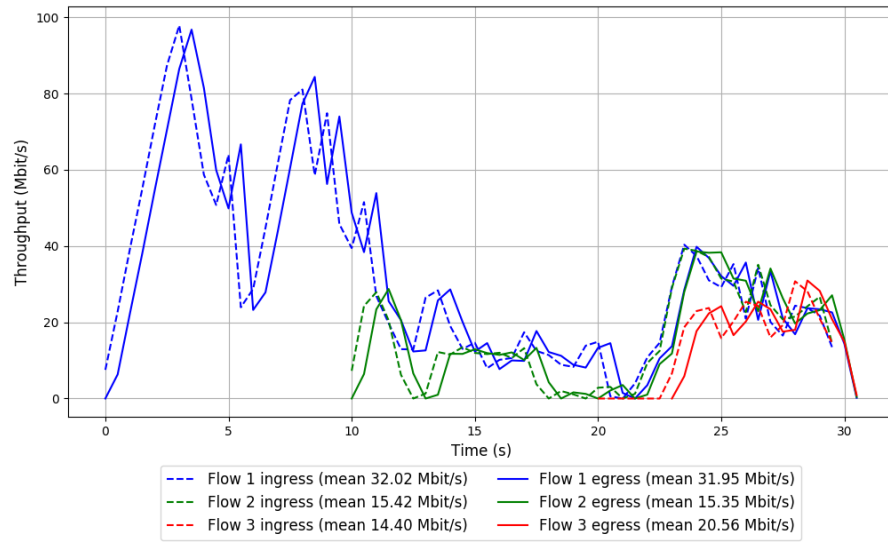


Run 5: Statistics of LEDBAT

Start at: 2018-07-24 15:56:32
End at: 2018-07-24 15:57:02
Local clock offset: -0.136 ms
Remote clock offset: 17.085 ms

Below is generated by plot.py at 2018-07-24 17:54:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.95 Mbit/s
95th percentile per-packet one-way delay: 39.052 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 31.95 Mbit/s
95th percentile per-packet one-way delay: 34.634 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 15.35 Mbit/s
95th percentile per-packet one-way delay: 41.956 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 20.56 Mbit/s
95th percentile per-packet one-way delay: 44.588 ms
Loss rate: 0.16%

Run 5: Report of LEDBAT — Data Link

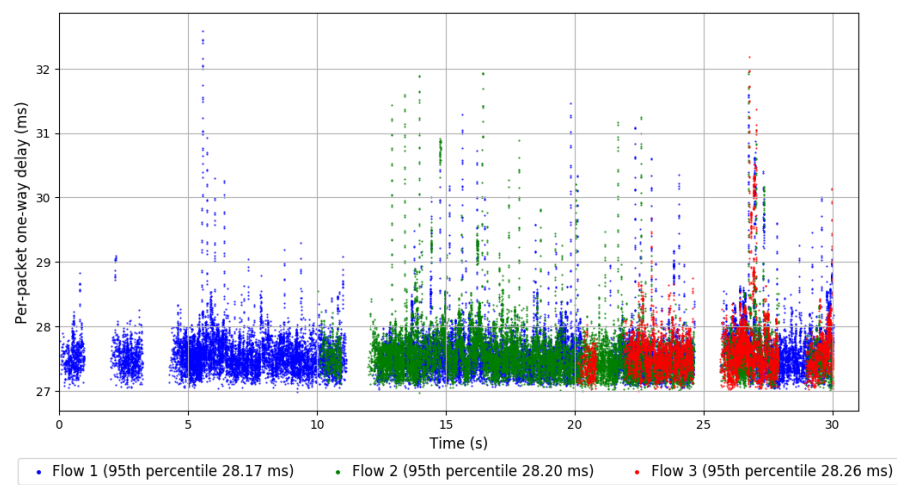
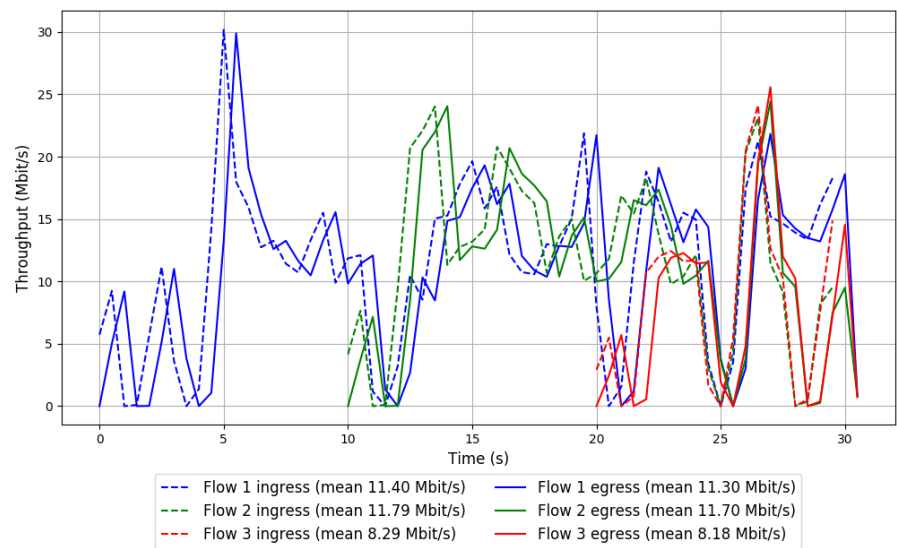


Run 6: Statistics of LEDBAT

Start at: 2018-07-24 16:16:36
End at: 2018-07-24 16:17:06
Local clock offset: -0.479 ms
Remote clock offset: 16.794 ms

Below is generated by plot.py at 2018-07-24 17:54:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.81 Mbit/s
95th percentile per-packet one-way delay: 28.200 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 28.172 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 28.205 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 8.18 Mbit/s
95th percentile per-packet one-way delay: 28.258 ms
Loss rate: 1.29%

Run 6: Report of LEDBAT — Data Link

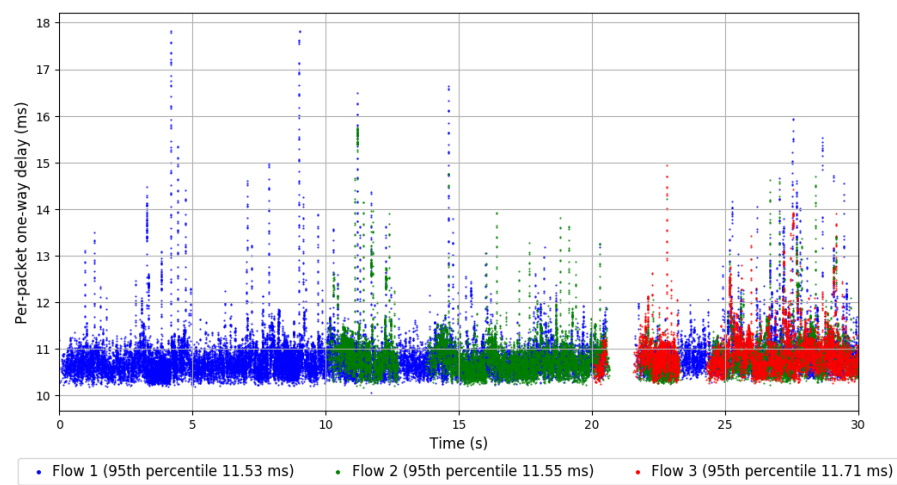
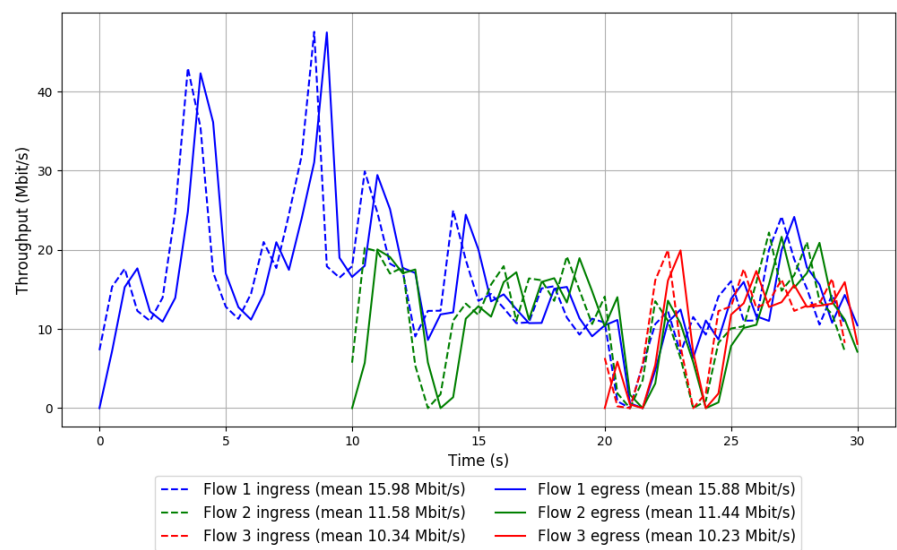


Run 7: Statistics of LEDBAT

Start at: 2018-07-24 16:36:27
End at: 2018-07-24 16:36:57
Local clock offset: -0.276 ms
Remote clock offset: -1.262 ms

Below is generated by plot.py at 2018-07-24 17:54:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.90 Mbit/s
95th percentile per-packet one-way delay: 11.564 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 15.88 Mbit/s
95th percentile per-packet one-way delay: 11.526 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 11.44 Mbit/s
95th percentile per-packet one-way delay: 11.553 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 10.23 Mbit/s
95th percentile per-packet one-way delay: 11.712 ms
Loss rate: 1.01%

Run 7: Report of LEDBAT — Data Link

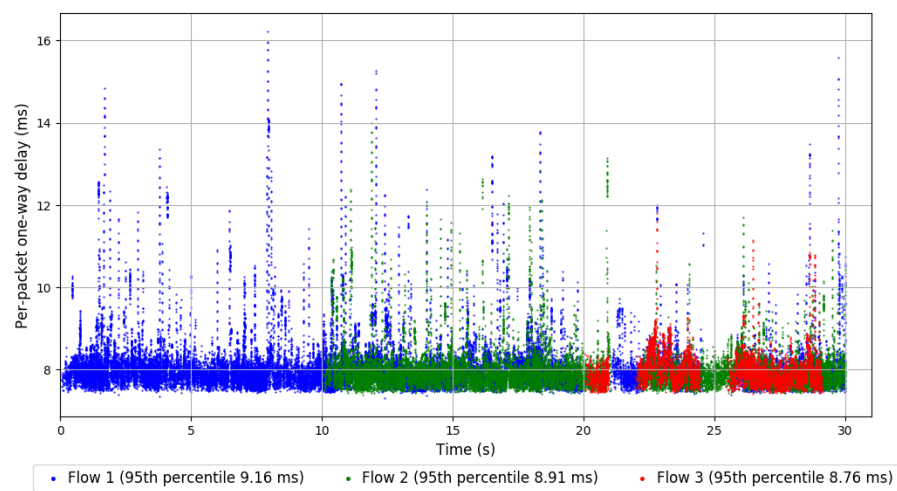
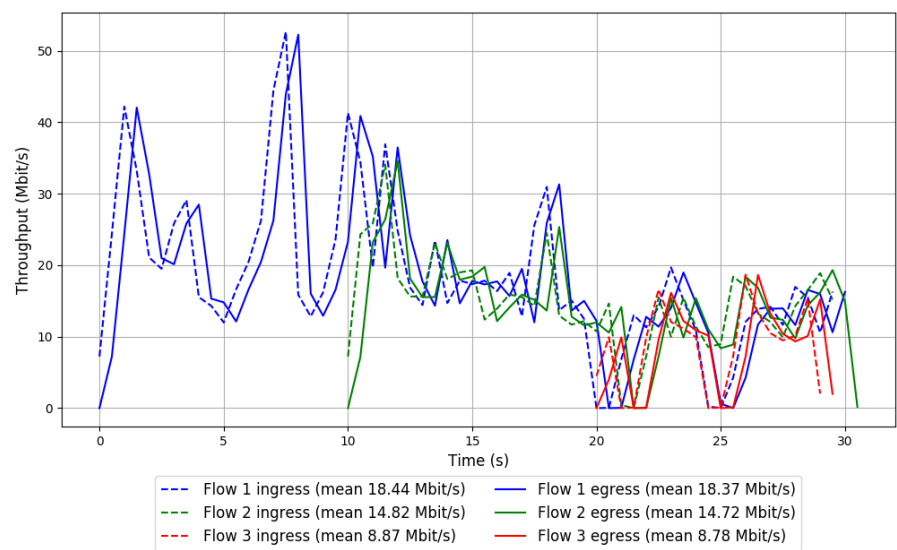


Run 8: Statistics of LEDBAT

Start at: 2018-07-24 16:56:47
End at: 2018-07-24 16:57:17
Local clock offset: -0.82 ms
Remote clock offset: -7.178 ms

Below is generated by plot.py at 2018-07-24 17:54:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.83 Mbit/s
95th percentile per-packet one-way delay: 9.032 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 18.37 Mbit/s
95th percentile per-packet one-way delay: 9.157 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 14.72 Mbit/s
95th percentile per-packet one-way delay: 8.912 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 8.78 Mbit/s
95th percentile per-packet one-way delay: 8.755 ms
Loss rate: 1.06%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-24 17:16:34

End at: 2018-07-24 17:17:04

Local clock offset: -0.939 ms

Remote clock offset: 7.222 ms

Below is generated by plot.py at 2018-07-24 17:54:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.24 Mbit/s

95th percentile per-packet one-way delay: 30.761 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 21.75 Mbit/s

95th percentile per-packet one-way delay: 30.736 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 17.57 Mbit/s

95th percentile per-packet one-way delay: 32.698 ms

Loss rate: 0.47%

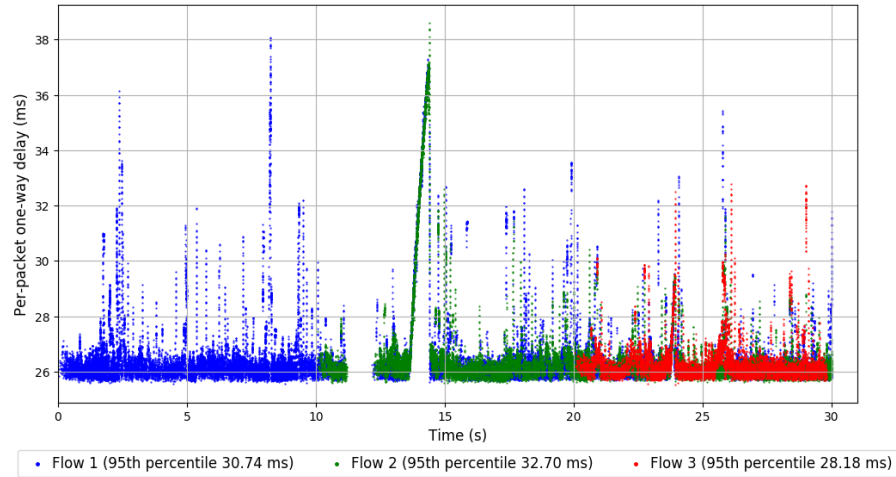
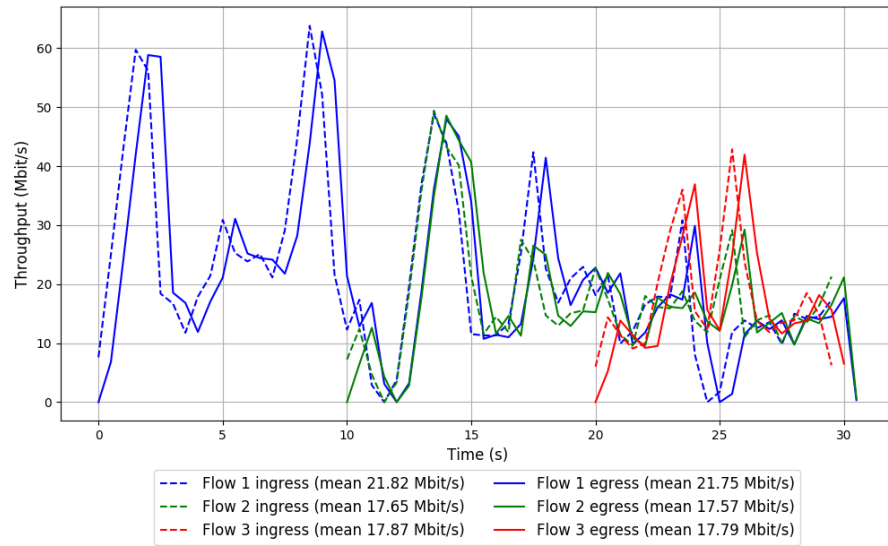
-- Flow 3:

Average throughput: 17.79 Mbit/s

95th percentile per-packet one-way delay: 28.179 ms

Loss rate: 0.46%

Run 9: Report of LEDBAT — Data Link

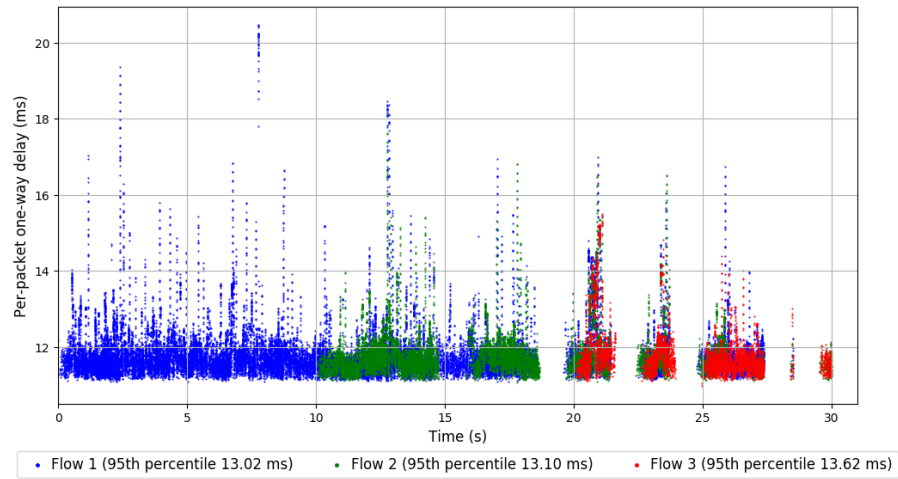
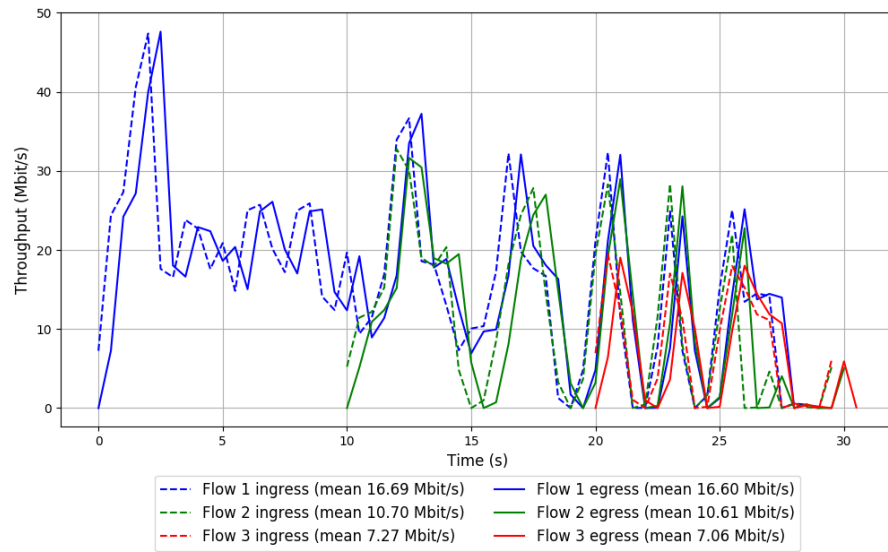


Run 10: Statistics of LEDBAT

Start at: 2018-07-24 17:36:21
End at: 2018-07-24 17:36:51
Local clock offset: -1.331 ms
Remote clock offset: -9.502 ms

Below is generated by plot.py at 2018-07-24 17:54:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.17 Mbit/s
95th percentile per-packet one-way delay: 13.106 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 16.60 Mbit/s
95th percentile per-packet one-way delay: 13.020 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 10.61 Mbit/s
95th percentile per-packet one-way delay: 13.103 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 13.620 ms
Loss rate: 2.78%

Run 10: Report of LEDBAT — Data Link

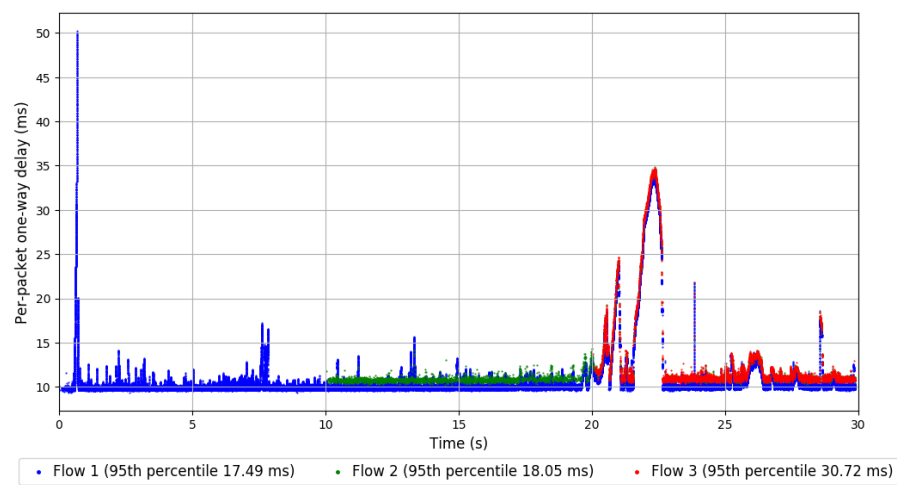
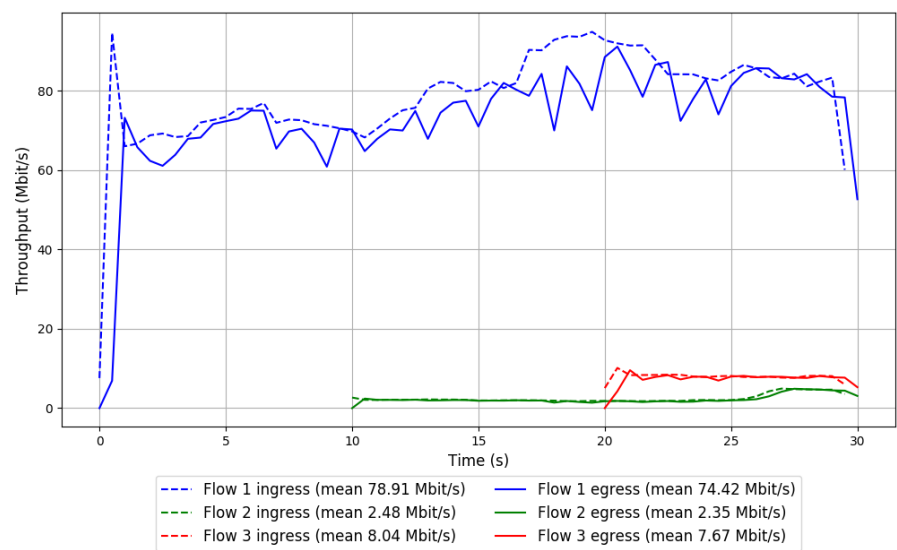


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-24 14:23:21
End at: 2018-07-24 14:23:51
Local clock offset: 1.043 ms
Remote clock offset: -9.133 ms

# Below is generated by plot.py at 2018-07-24 17:55:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.51 Mbit/s
95th percentile per-packet one-way delay: 18.213 ms
Loss rate: 5.65%
-- Flow 1:
Average throughput: 74.42 Mbit/s
95th percentile per-packet one-way delay: 17.492 ms
Loss rate: 5.69%
-- Flow 2:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 18.051 ms
Loss rate: 5.34%
-- Flow 3:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 30.722 ms
Loss rate: 4.63%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-24 14:43:04

End at: 2018-07-24 14:43:34

Local clock offset: 1.749 ms

Remote clock offset: 8.246 ms

Below is generated by plot.py at 2018-07-24 17:55:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.39 Mbit/s

95th percentile per-packet one-way delay: 60.623 ms

Loss rate: 7.51%

-- Flow 1:

Average throughput: 59.05 Mbit/s

95th percentile per-packet one-way delay: 59.434 ms

Loss rate: 7.01%

-- Flow 2:

Average throughput: 28.47 Mbit/s

95th percentile per-packet one-way delay: 61.083 ms

Loss rate: 8.07%

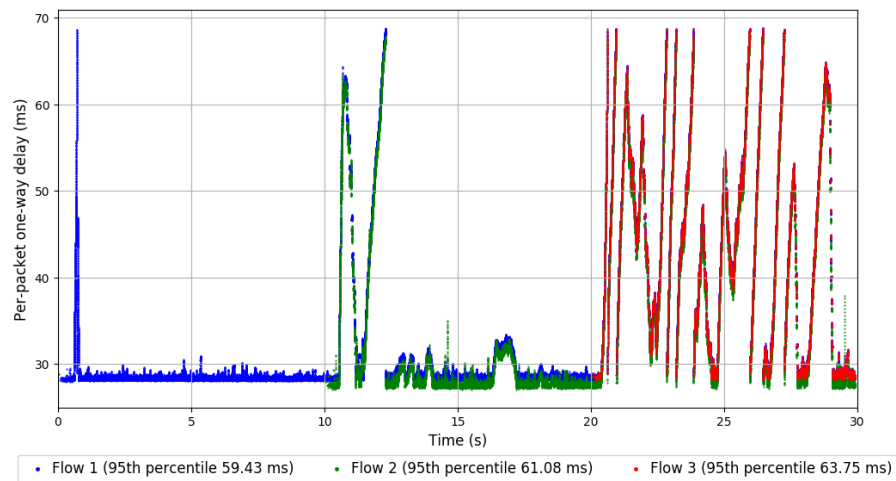
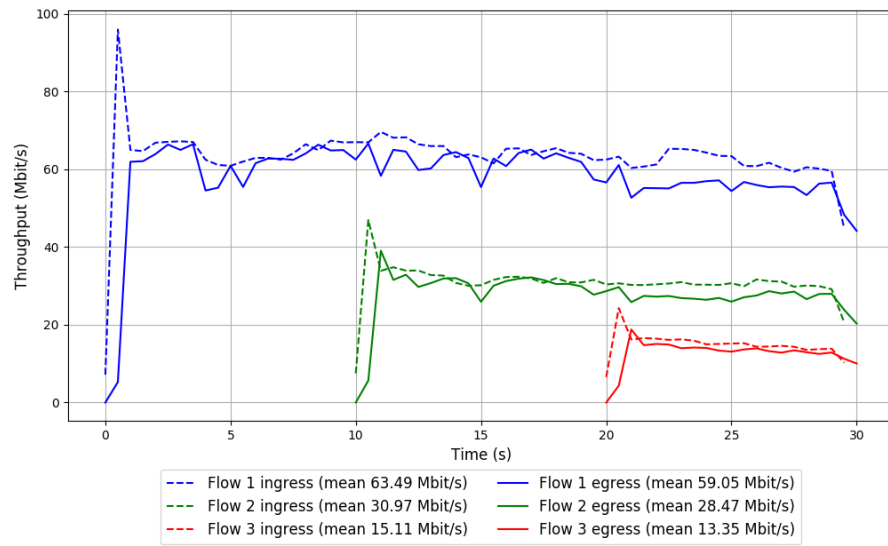
-- Flow 3:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 63.749 ms

Loss rate: 11.66%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-24 15:03:01

End at: 2018-07-24 15:03:31

Local clock offset: 3.503 ms

Remote clock offset: 0.611 ms

Below is generated by plot.py at 2018-07-24 17:55:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.13 Mbit/s

95th percentile per-packet one-way delay: 21.034 ms

Loss rate: 6.11%

-- Flow 1:

Average throughput: 72.77 Mbit/s

95th percentile per-packet one-way delay: 20.714 ms

Loss rate: 6.28%

-- Flow 2:

Average throughput: 17.81 Mbit/s

95th percentile per-packet one-way delay: 23.837 ms

Loss rate: 5.48%

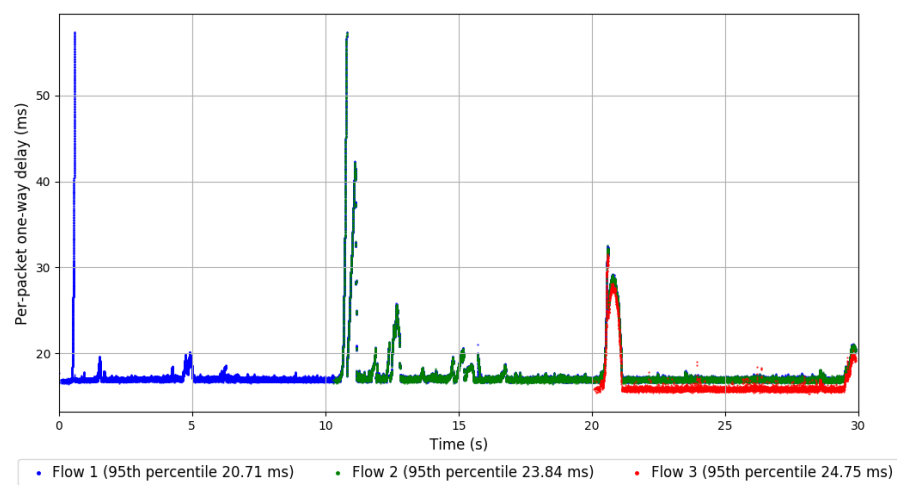
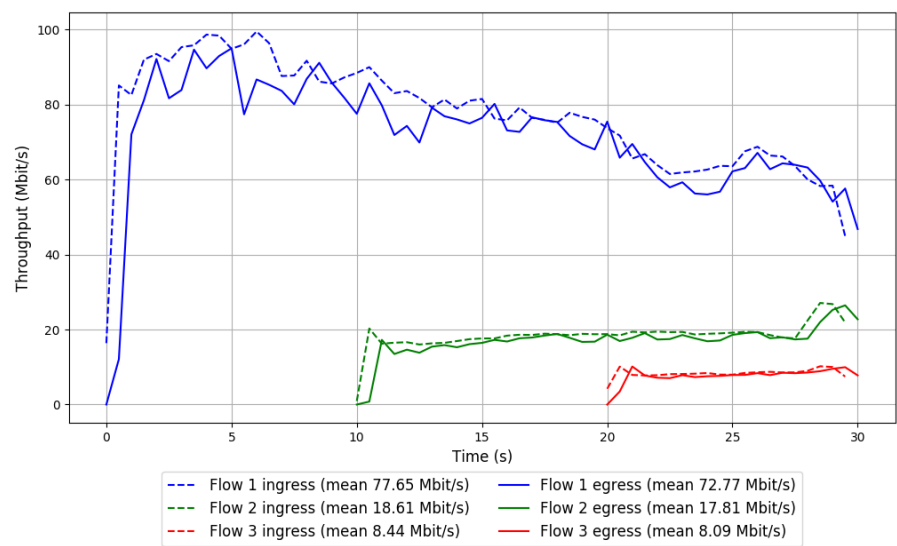
-- Flow 3:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 24.754 ms

Loss rate: 4.09%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-24 15:23:16

End at: 2018-07-24 15:23:46

Local clock offset: 2.578 ms

Remote clock offset: 5.779 ms

Below is generated by plot.py at 2018-07-24 17:55:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.35 Mbit/s

95th percentile per-packet one-way delay: 20.415 ms

Loss rate: 6.51%

-- Flow 1:

Average throughput: 73.46 Mbit/s

95th percentile per-packet one-way delay: 20.365 ms

Loss rate: 6.51%

-- Flow 2:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 21.326 ms

Loss rate: 6.84%

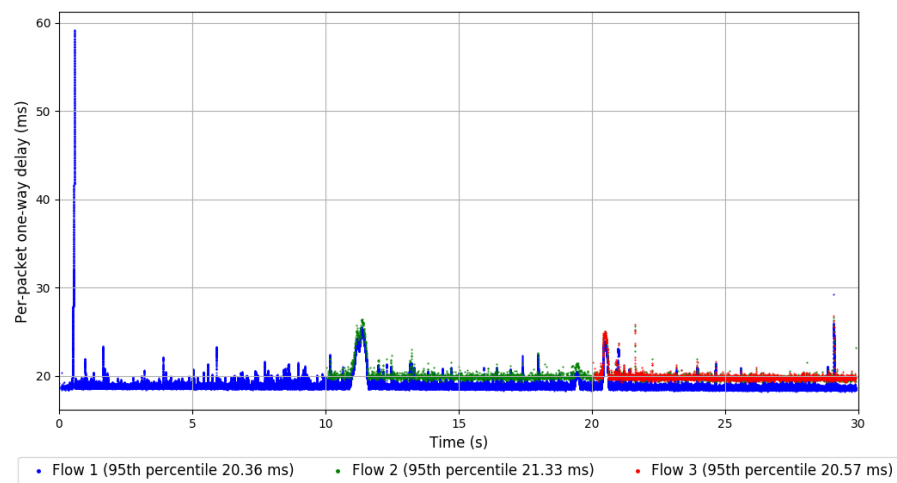
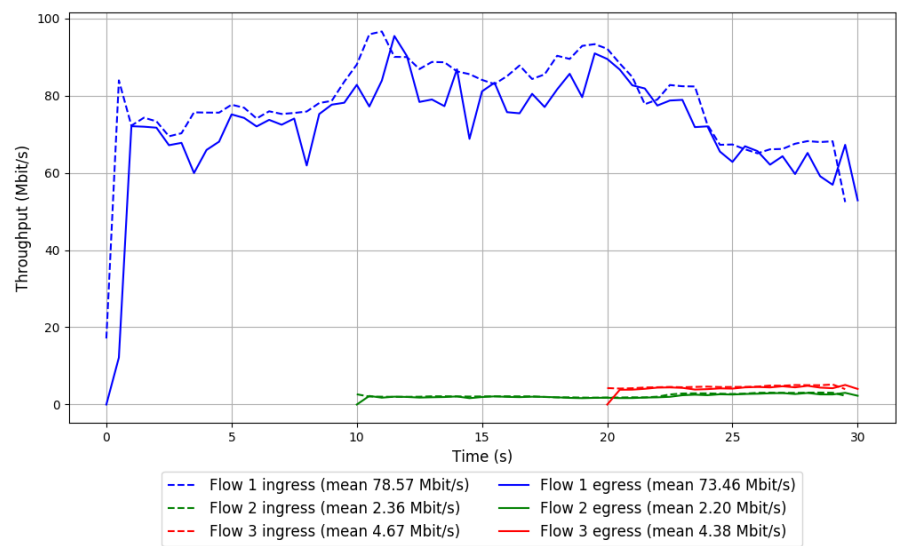
-- Flow 3:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 20.569 ms

Loss rate: 6.31%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-24 15:43:33

End at: 2018-07-24 15:44:03

Local clock offset: 1.808 ms

Remote clock offset: 9.419 ms

Below is generated by plot.py at 2018-07-24 17:55:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.59 Mbit/s

95th percentile per-packet one-way delay: 25.010 ms

Loss rate: 8.02%

-- Flow 1:

Average throughput: 76.31 Mbit/s

95th percentile per-packet one-way delay: 25.073 ms

Loss rate: 8.00%

-- Flow 2:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 26.007 ms

Loss rate: 9.20%

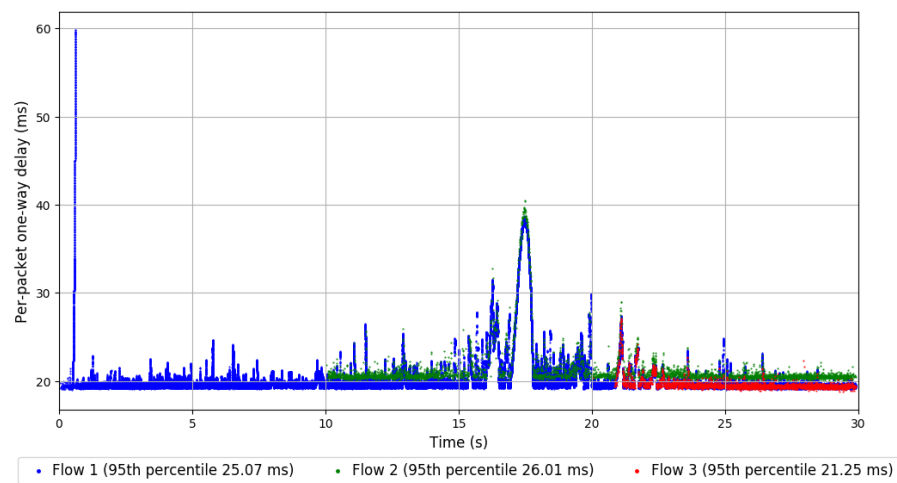
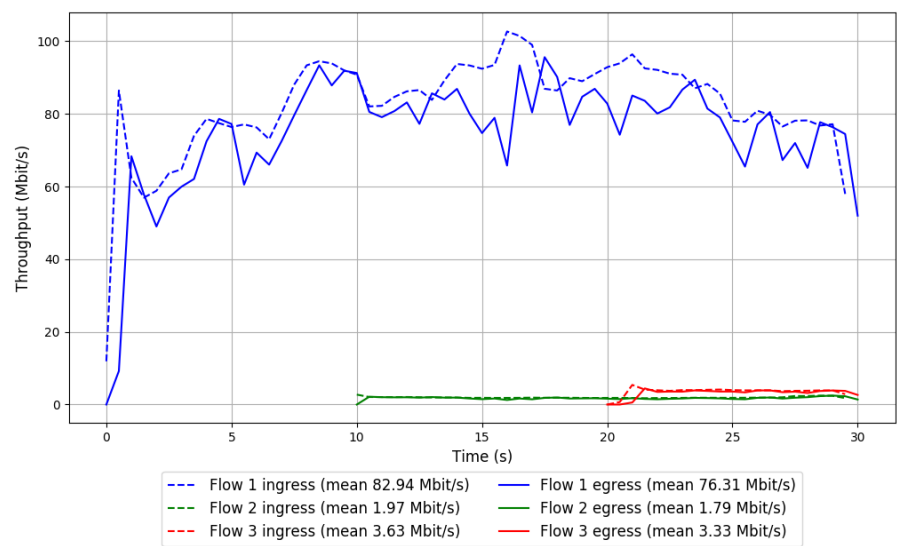
-- Flow 3:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 21.252 ms

Loss rate: 8.42%

Run 5: Report of PCC-Allegro — Data Link

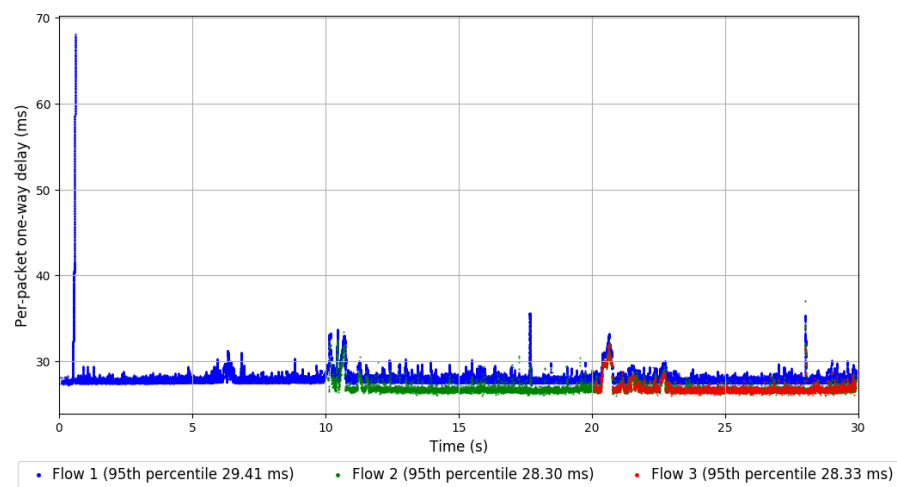
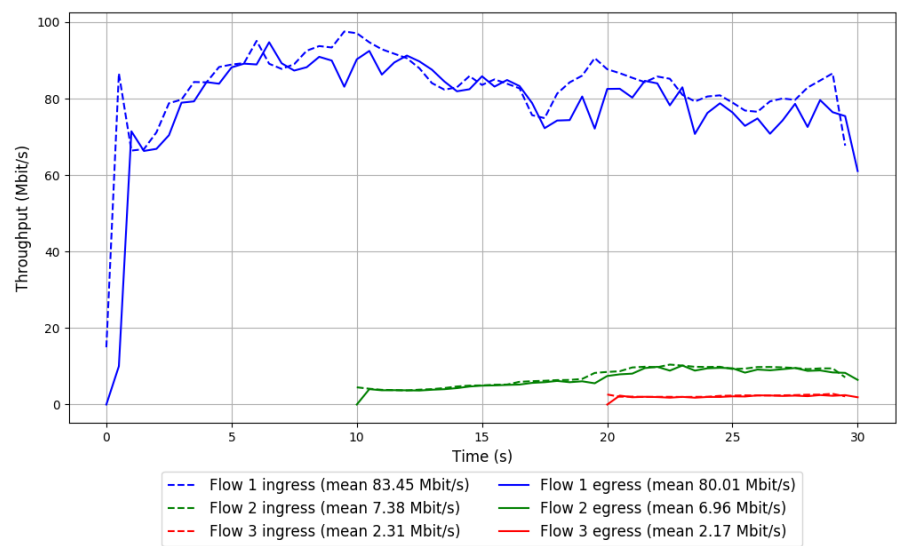


Run 6: Statistics of PCC-Allegro

Start at: 2018-07-24 16:03:49
End at: 2018-07-24 16:04:19
Local clock offset: 0.189 ms
Remote clock offset: 16.443 ms

Below is generated by plot.py at 2018-07-24 17:55:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.36 Mbit/s
95th percentile per-packet one-way delay: 29.382 ms
Loss rate: 4.21%
-- Flow 1:
Average throughput: 80.01 Mbit/s
95th percentile per-packet one-way delay: 29.406 ms
Loss rate: 4.12%
-- Flow 2:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 28.299 ms
Loss rate: 5.58%
-- Flow 3:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 28.326 ms
Loss rate: 6.22%

Run 6: Report of PCC-Allegro — Data Link

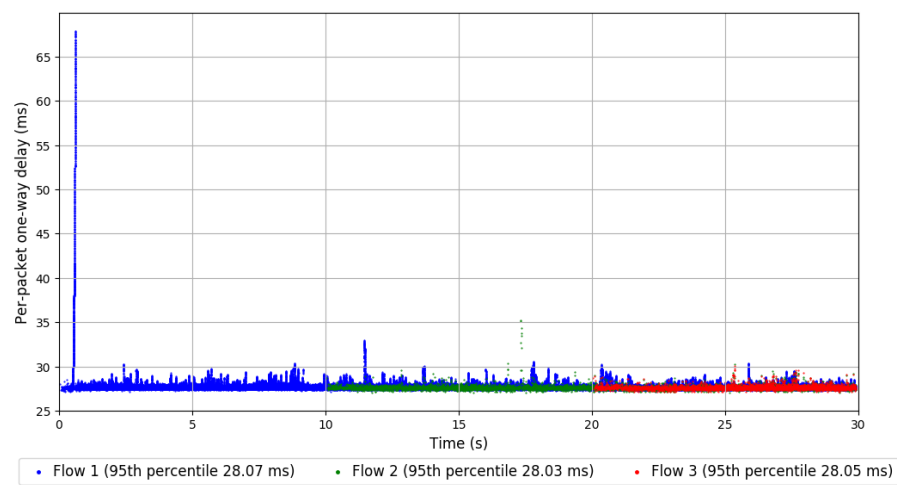
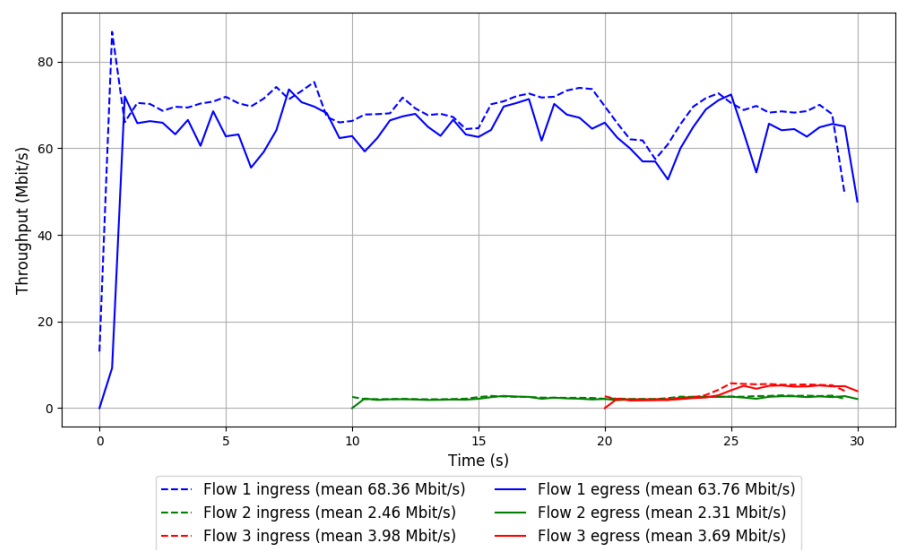


Run 7: Statistics of PCC-Allegro

Start at: 2018-07-24 16:23:50
End at: 2018-07-24 16:24:20
Local clock offset: 0.203 ms
Remote clock offset: 19.546 ms

Below is generated by plot.py at 2018-07-24 17:55:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.52 Mbit/s
95th percentile per-packet one-way delay: 28.071 ms
Loss rate: 6.72%
-- Flow 1:
Average throughput: 63.76 Mbit/s
95th percentile per-packet one-way delay: 28.072 ms
Loss rate: 6.73%
-- Flow 2:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 28.028 ms
Loss rate: 5.98%
-- Flow 3:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 28.050 ms
Loss rate: 7.21%

Run 7: Report of PCC-Allegro — Data Link

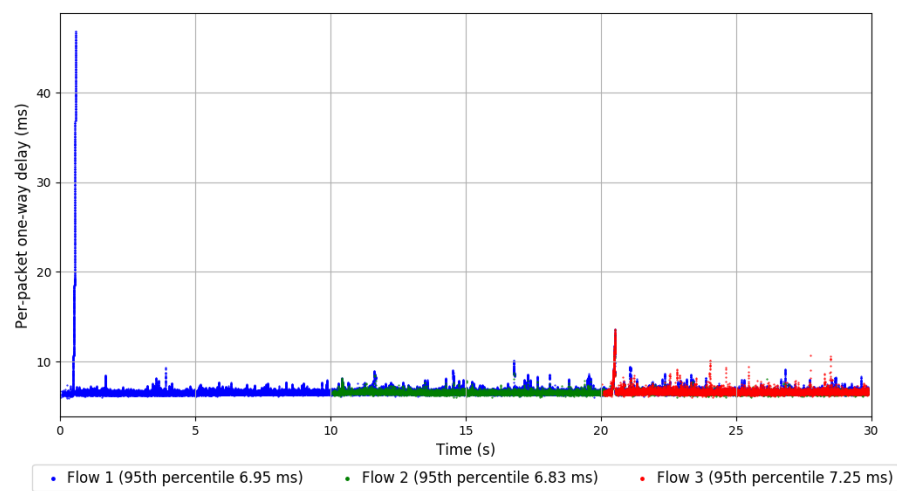
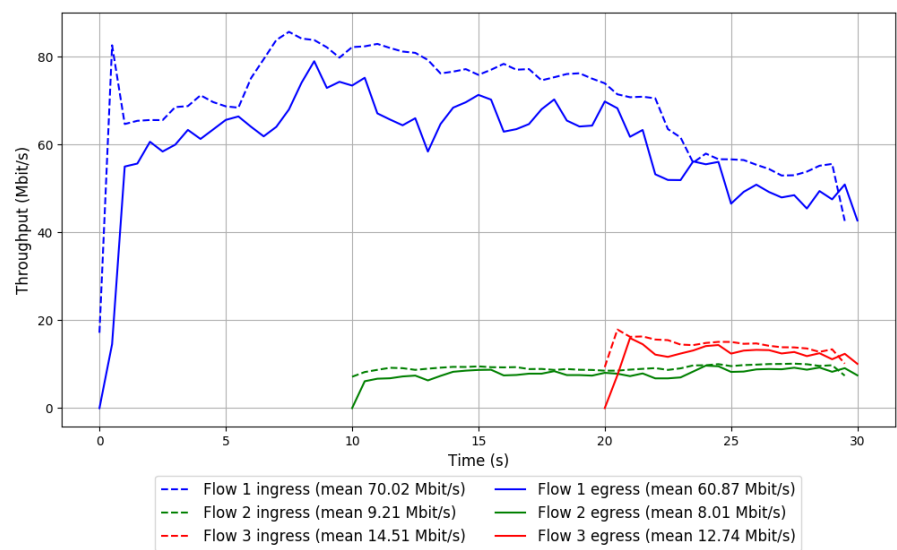


Run 8: Statistics of PCC-Allegro

Start at: 2018-07-24 16:43:53
End at: 2018-07-24 16:44:23
Local clock offset: 0.028 ms
Remote clock offset: -6.611 ms

Below is generated by plot.py at 2018-07-24 17:55:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.40 Mbit/s
95th percentile per-packet one-way delay: 6.953 ms
Loss rate: 13.01%
-- Flow 1:
Average throughput: 60.87 Mbit/s
95th percentile per-packet one-way delay: 6.950 ms
Loss rate: 13.06%
-- Flow 2:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 6.832 ms
Loss rate: 13.04%
-- Flow 3:
Average throughput: 12.74 Mbit/s
95th percentile per-packet one-way delay: 7.255 ms
Loss rate: 12.19%

Run 8: Report of PCC-Allegro — Data Link

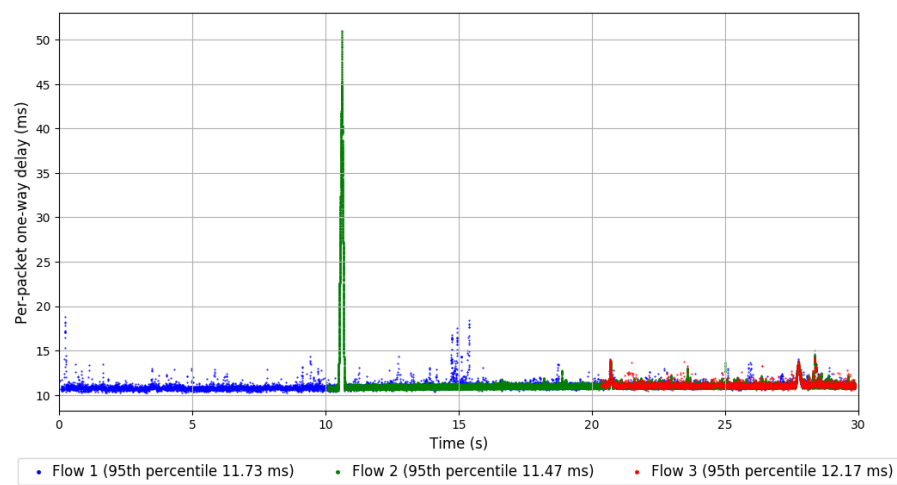
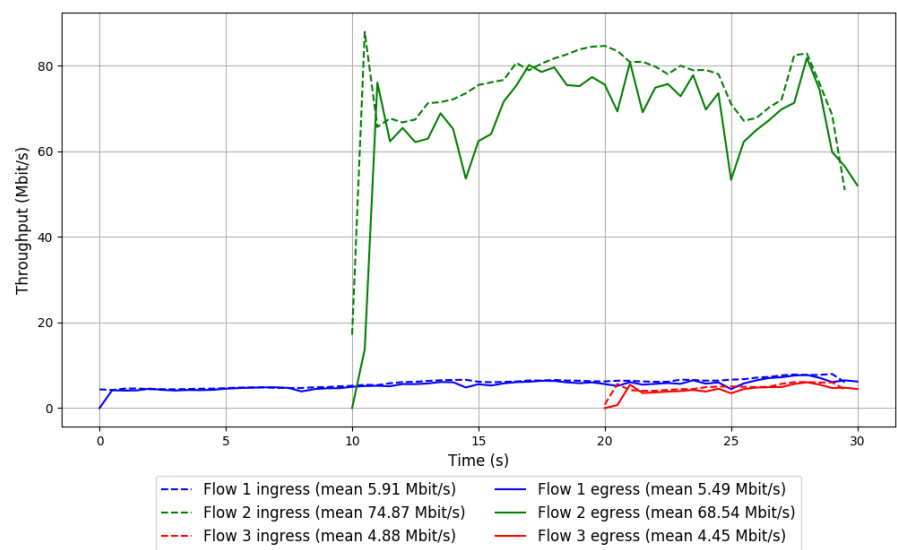


Run 9: Statistics of PCC-Allegro

Start at: 2018-07-24 17:03:59
End at: 2018-07-24 17:04:29
Local clock offset: -1.871 ms
Remote clock offset: -5.782 ms

Below is generated by plot.py at 2018-07-24 17:55:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.54 Mbit/s
95th percentile per-packet one-way delay: 11.534 ms
Loss rate: 8.32%
-- Flow 1:
Average throughput: 5.49 Mbit/s
95th percentile per-packet one-way delay: 11.726 ms
Loss rate: 7.01%
-- Flow 2:
Average throughput: 68.54 Mbit/s
95th percentile per-packet one-way delay: 11.472 ms
Loss rate: 8.46%
-- Flow 3:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 12.168 ms
Loss rate: 8.85%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-24 17:23:39

End at: 2018-07-24 17:24:09

Local clock offset: -0.913 ms

Remote clock offset: 4.654 ms

Below is generated by plot.py at 2018-07-24 17:55:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.56 Mbit/s

95th percentile per-packet one-way delay: 27.238 ms

Loss rate: 7.05%

-- Flow 1:

Average throughput: 15.48 Mbit/s

95th percentile per-packet one-way delay: 24.849 ms

Loss rate: 5.87%

-- Flow 2:

Average throughput: 33.50 Mbit/s

95th percentile per-packet one-way delay: 27.116 ms

Loss rate: 6.42%

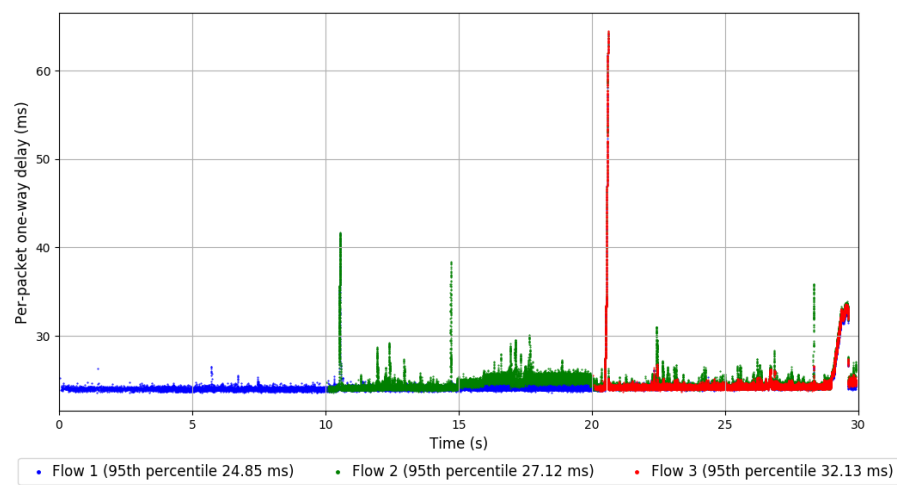
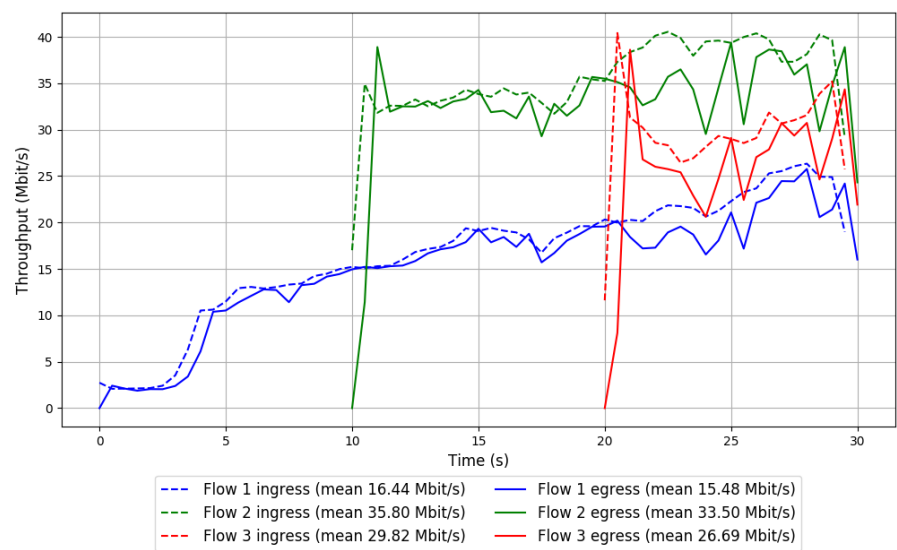
-- Flow 3:

Average throughput: 26.69 Mbit/s

95th percentile per-packet one-way delay: 32.135 ms

Loss rate: 10.52%

Run 10: Report of PCC-Allegro — Data Link

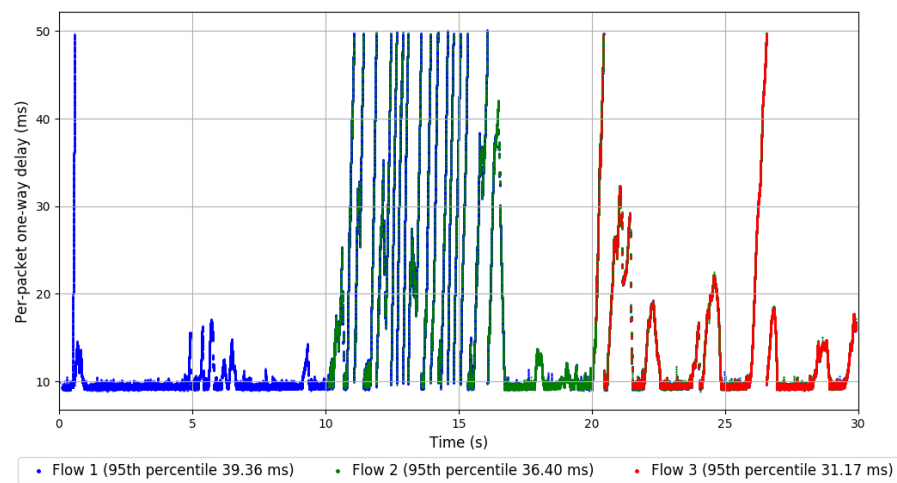
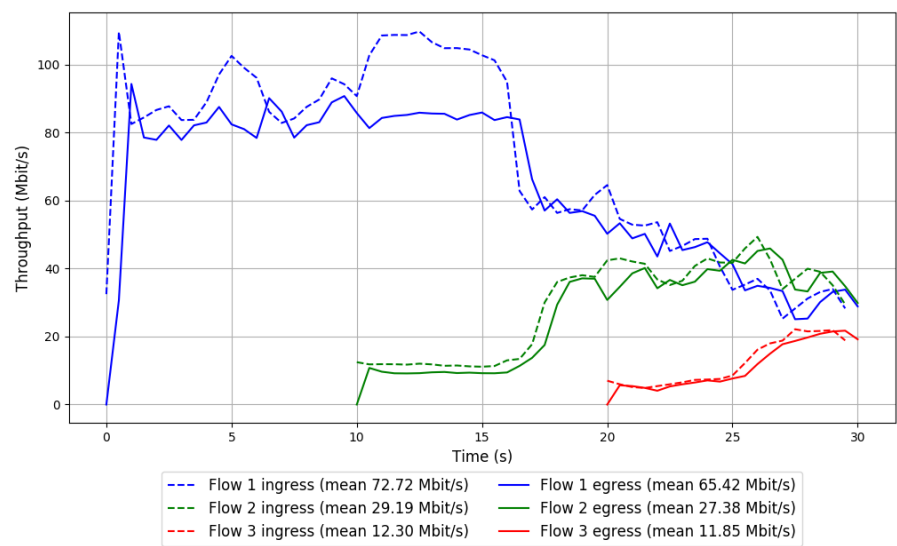


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-24 14:25:37
End at: 2018-07-24 14:26:07
Local clock offset: 2.287 ms
Remote clock offset: -9.527 ms

# Below is generated by plot.py at 2018-07-24 17:57:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.54 Mbit/s
95th percentile per-packet one-way delay: 38.629 ms
Loss rate: 8.97%
-- Flow 1:
Average throughput: 65.42 Mbit/s
95th percentile per-packet one-way delay: 39.363 ms
Loss rate: 10.01%
-- Flow 2:
Average throughput: 27.38 Mbit/s
95th percentile per-packet one-way delay: 36.401 ms
Loss rate: 6.19%
-- Flow 3:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 31.174 ms
Loss rate: 3.63%
```

Run 1: Report of PCC-Expr — Data Link

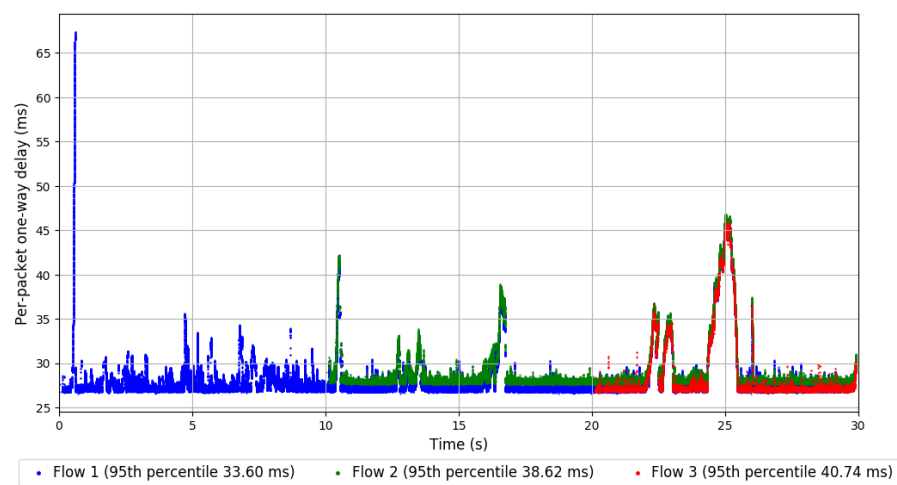
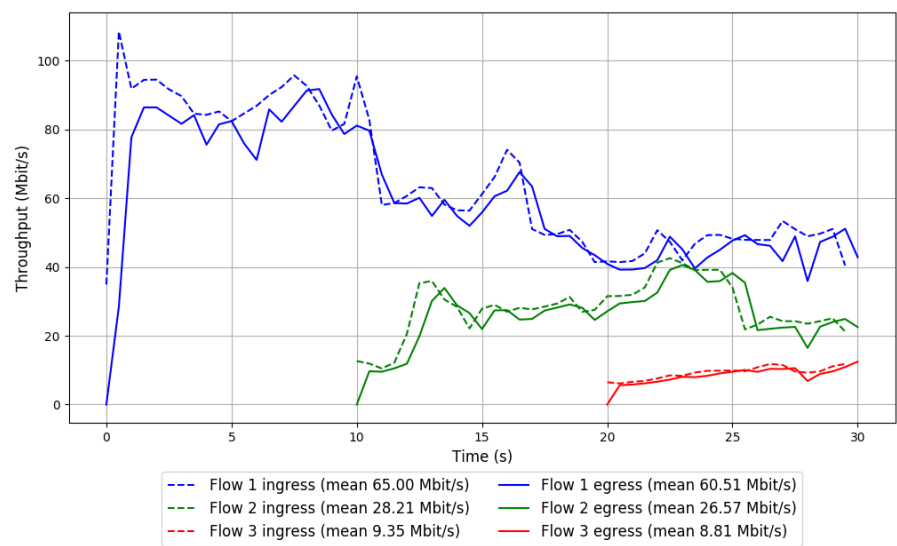


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-24 14:45:18
End at: 2018-07-24 14:45:48
Local clock offset: 3.402 ms
Remote clock offset: 9.411 ms

# Below is generated by plot.py at 2018-07-24 17:57:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.09 Mbit/s
95th percentile per-packet one-way delay: 35.147 ms
Loss rate: 6.62%
-- Flow 1:
Average throughput: 60.51 Mbit/s
95th percentile per-packet one-way delay: 33.600 ms
Loss rate: 6.90%
-- Flow 2:
Average throughput: 26.57 Mbit/s
95th percentile per-packet one-way delay: 38.623 ms
Loss rate: 5.81%
-- Flow 3:
Average throughput: 8.81 Mbit/s
95th percentile per-packet one-way delay: 40.745 ms
Loss rate: 5.71%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-24 15:05:17

End at: 2018-07-24 15:05:47

Local clock offset: -0.064 ms

Remote clock offset: 1.051 ms

Below is generated by plot.py at 2018-07-24 17:57:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.89 Mbit/s

95th percentile per-packet one-way delay: 33.950 ms

Loss rate: 9.59%

-- Flow 1:

Average throughput: 56.40 Mbit/s

95th percentile per-packet one-way delay: 34.029 ms

Loss rate: 10.04%

-- Flow 2:

Average throughput: 11.29 Mbit/s

95th percentile per-packet one-way delay: 36.352 ms

Loss rate: 8.05%

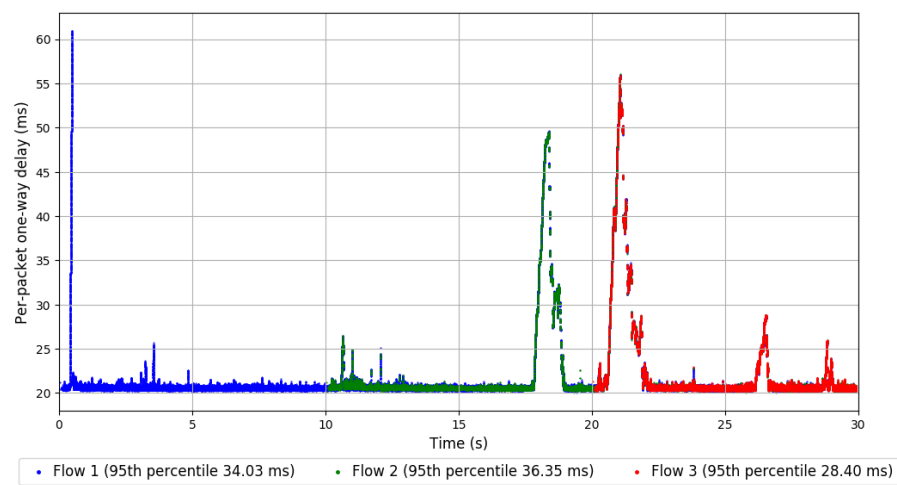
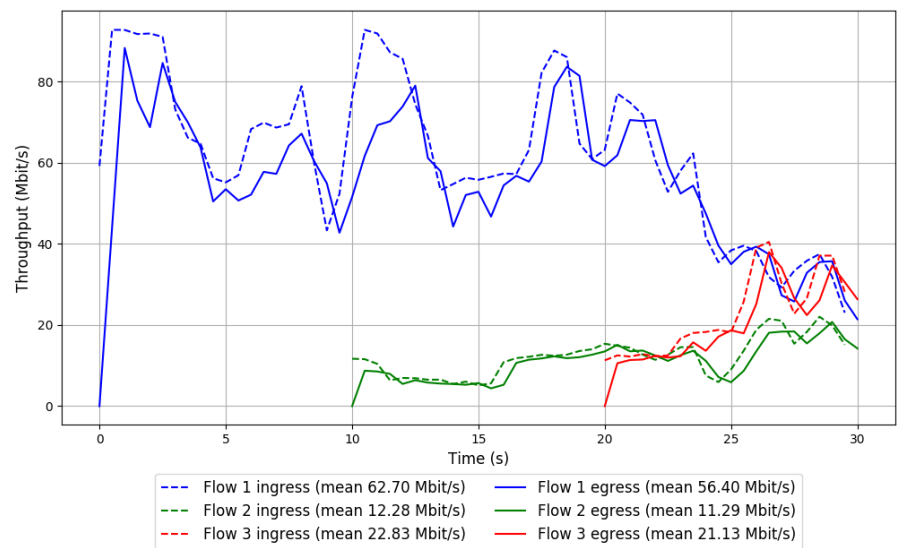
-- Flow 3:

Average throughput: 21.13 Mbit/s

95th percentile per-packet one-way delay: 28.397 ms

Loss rate: 7.46%

Run 3: Report of PCC-Expr — Data Link

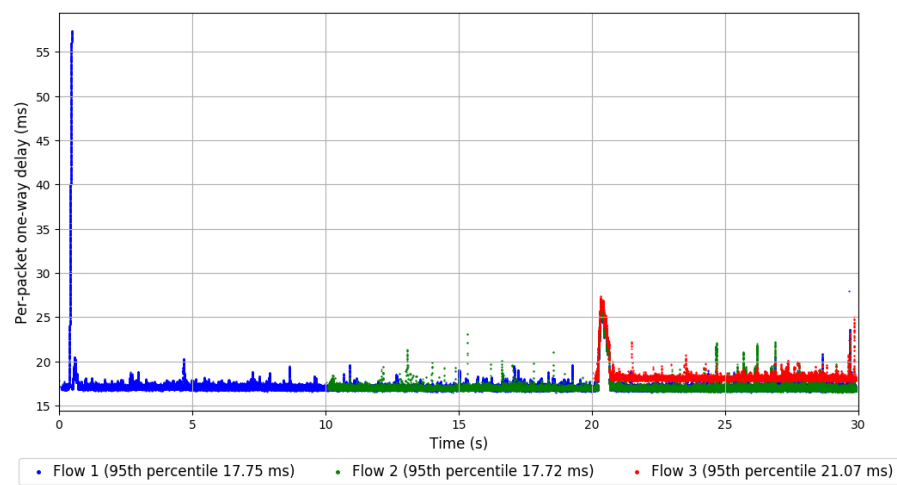
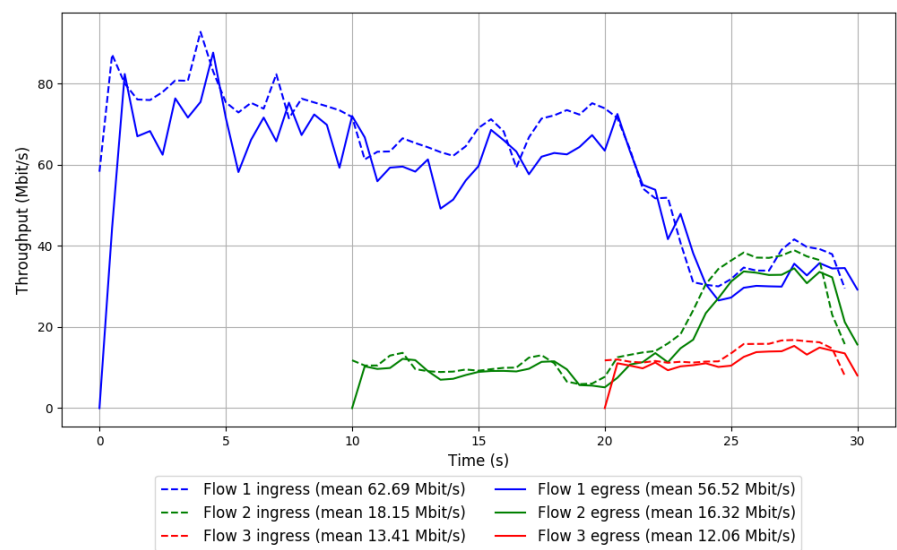


```
Run 4: Statistics of PCC-Expr

Start at: 2018-07-24 15:25:33
End at: 2018-07-24 15:26:03
Local clock offset: -0.839 ms
Remote clock offset: 1.598 ms

# Below is generated by plot.py at 2018-07-24 17:57:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.35 Mbit/s
95th percentile per-packet one-way delay: 18.241 ms
Loss rate: 9.90%
-- Flow 1:
Average throughput: 56.52 Mbit/s
95th percentile per-packet one-way delay: 17.750 ms
Loss rate: 9.85%
-- Flow 2:
Average throughput: 16.32 Mbit/s
95th percentile per-packet one-way delay: 17.718 ms
Loss rate: 10.13%
-- Flow 3:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 21.075 ms
Loss rate: 10.09%
```


Run 4: Report of PCC-Expr — Data Link

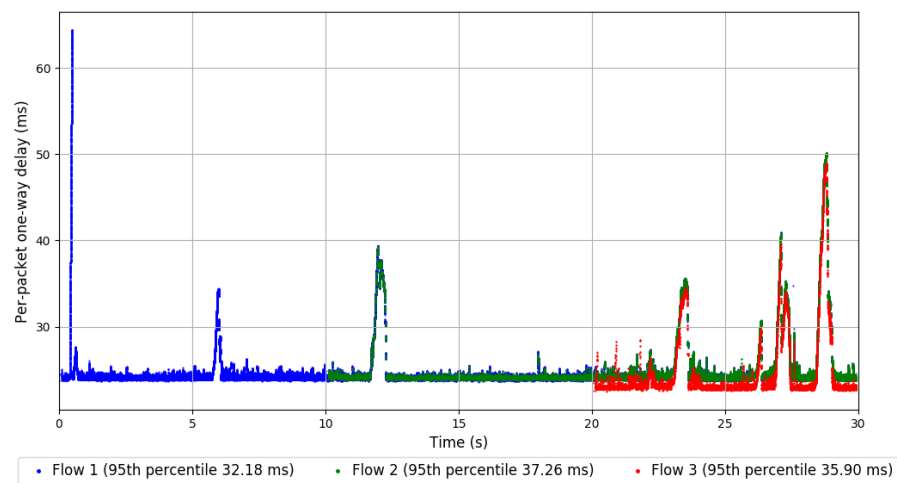
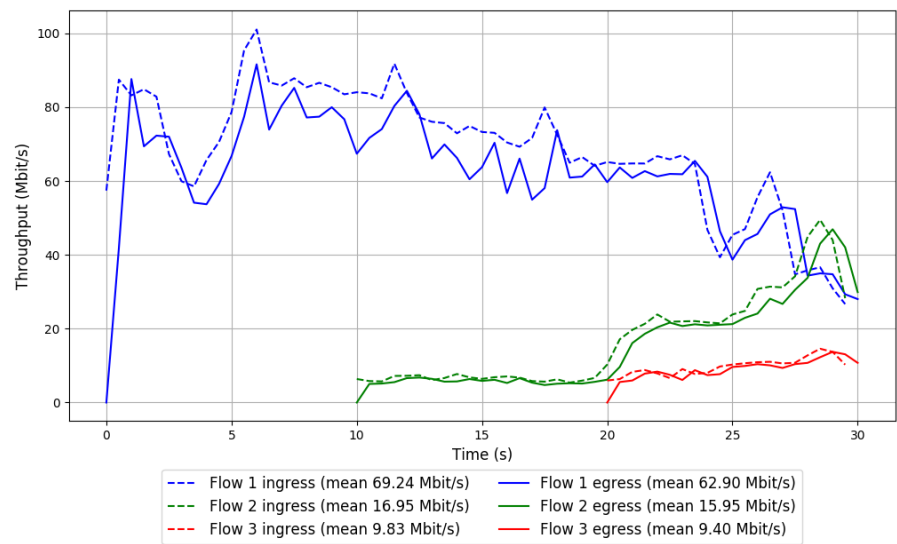


Run 5: Statistics of PCC-Expr

Start at: 2018-07-24 15:45:50
End at: 2018-07-24 15:46:20
Local clock offset: 1.712 ms
Remote clock offset: 13.068 ms

Below is generated by plot.py at 2018-07-24 17:57:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.61 Mbit/s
95th percentile per-packet one-way delay: 33.517 ms
Loss rate: 8.54%
-- Flow 1:
Average throughput: 62.90 Mbit/s
95th percentile per-packet one-way delay: 32.178 ms
Loss rate: 9.16%
-- Flow 2:
Average throughput: 15.95 Mbit/s
95th percentile per-packet one-way delay: 37.263 ms
Loss rate: 5.93%
-- Flow 3:
Average throughput: 9.40 Mbit/s
95th percentile per-packet one-way delay: 35.900 ms
Loss rate: 4.40%

Run 5: Report of PCC-Expr — Data Link

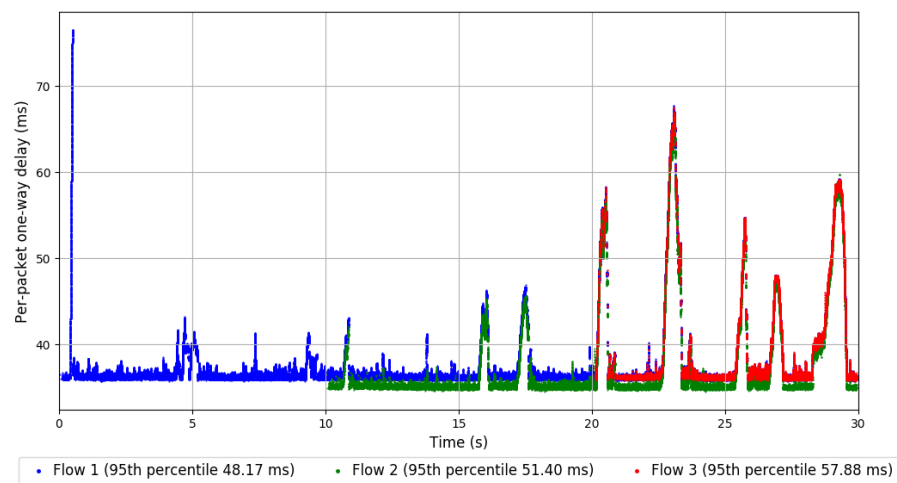
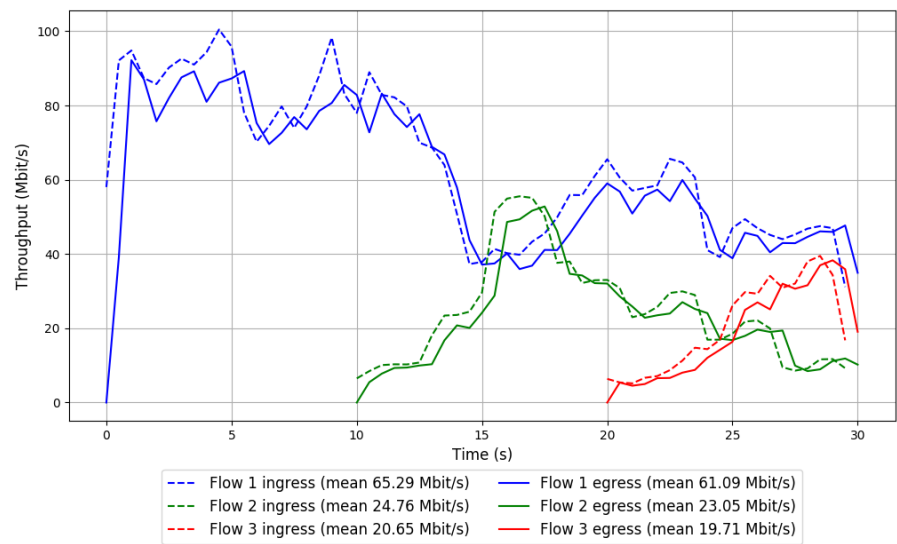


Run 6: Statistics of PCC-Expr

Start at: 2018-07-24 16:06:05
End at: 2018-07-24 16:06:35
Local clock offset: -6.049 ms
Remote clock offset: 18.929 ms

Below is generated by plot.py at 2018-07-24 17:57:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.92 Mbit/s
95th percentile per-packet one-way delay: 50.902 ms
Loss rate: 6.39%
-- Flow 1:
Average throughput: 61.09 Mbit/s
95th percentile per-packet one-way delay: 48.175 ms
Loss rate: 6.44%
-- Flow 2:
Average throughput: 23.05 Mbit/s
95th percentile per-packet one-way delay: 51.397 ms
Loss rate: 6.93%
-- Flow 3:
Average throughput: 19.71 Mbit/s
95th percentile per-packet one-way delay: 57.875 ms
Loss rate: 4.56%

Run 6: Report of PCC-Expr — Data Link

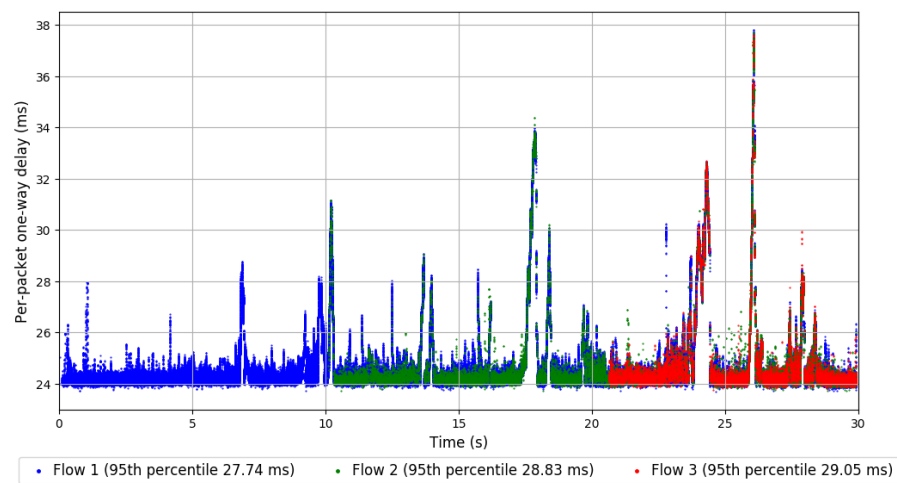
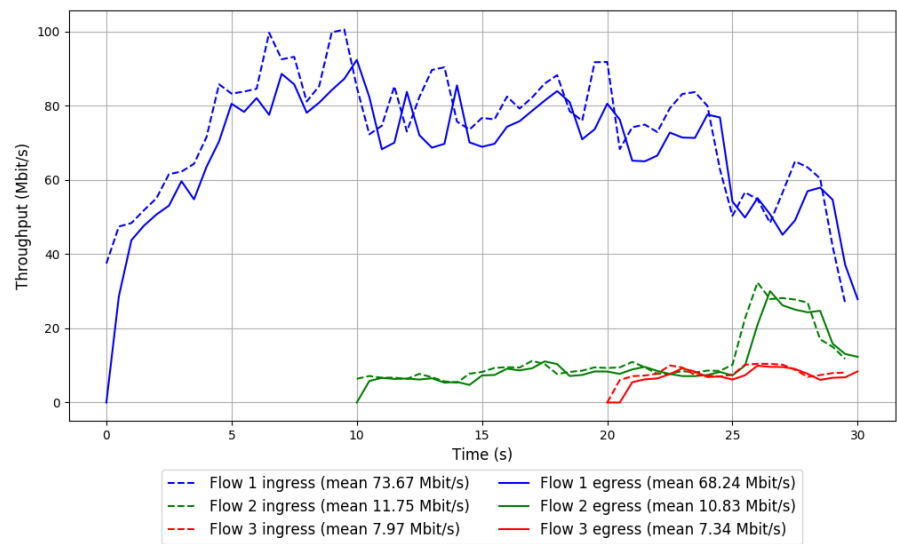


Run 7: Statistics of PCC-Expr

Start at: 2018-07-24 16:26:04
End at: 2018-07-24 16:26:34
Local clock offset: -0.776 ms
Remote clock offset: 15.315 ms

Below is generated by plot.py at 2018-07-24 17:57:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.86 Mbit/s
95th percentile per-packet one-way delay: 27.821 ms
Loss rate: 7.45%
-- Flow 1:
Average throughput: 68.24 Mbit/s
95th percentile per-packet one-way delay: 27.737 ms
Loss rate: 7.39%
-- Flow 2:
Average throughput: 10.83 Mbit/s
95th percentile per-packet one-way delay: 28.834 ms
Loss rate: 7.84%
-- Flow 3:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 29.045 ms
Loss rate: 7.99%

Run 7: Report of PCC-Expr — Data Link

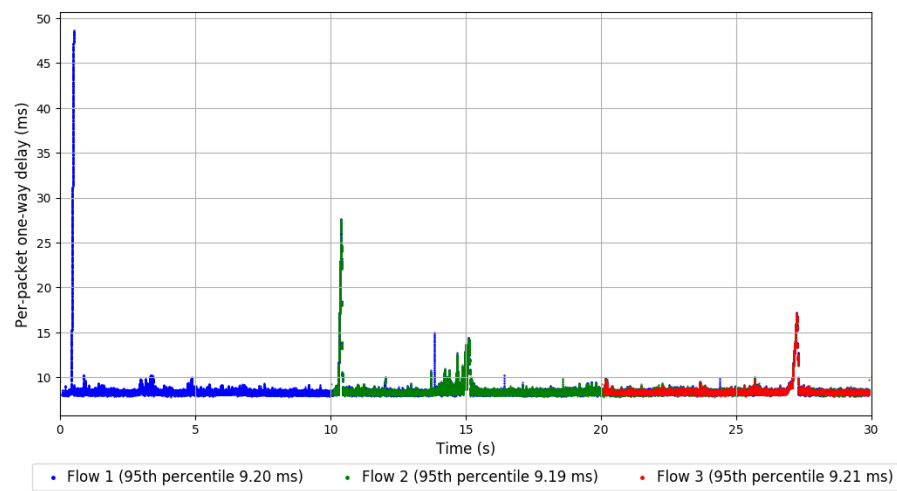
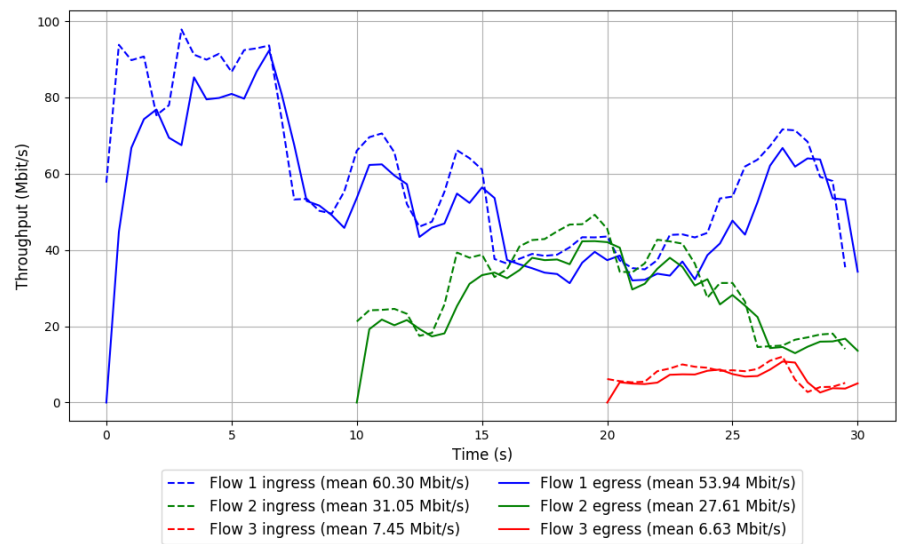


Run 8: Statistics of PCC-Expr

Start at: 2018-07-24 16:46:17
End at: 2018-07-24 16:46:47
Local clock offset: 0.924 ms
Remote clock offset: -4.166 ms

Below is generated by plot.py at 2018-07-24 17:57:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.49 Mbit/s
95th percentile per-packet one-way delay: 9.194 ms
Loss rate: 10.69%
-- Flow 1:
Average throughput: 53.94 Mbit/s
95th percentile per-packet one-way delay: 9.197 ms
Loss rate: 10.55%
-- Flow 2:
Average throughput: 27.61 Mbit/s
95th percentile per-packet one-way delay: 9.185 ms
Loss rate: 11.07%
-- Flow 3:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 9.210 ms
Loss rate: 11.04%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-24 17:06:15

End at: 2018-07-24 17:06:45

Local clock offset: -2.364 ms

Remote clock offset: 8.688 ms

Below is generated by plot.py at 2018-07-24 17:58:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.32 Mbit/s

95th percentile per-packet one-way delay: 34.255 ms

Loss rate: 6.47%

-- Flow 1:

Average throughput: 49.99 Mbit/s

95th percentile per-packet one-way delay: 33.901 ms

Loss rate: 6.57%

-- Flow 2:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 35.369 ms

Loss rate: 5.98%

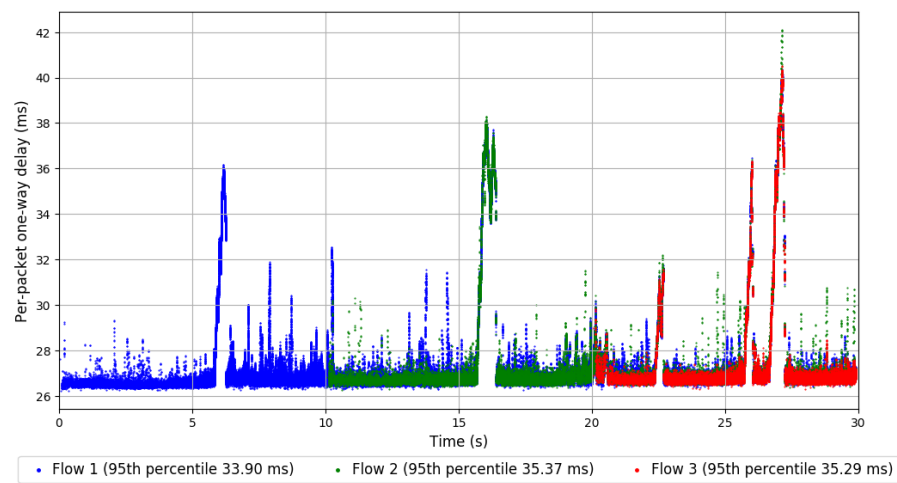
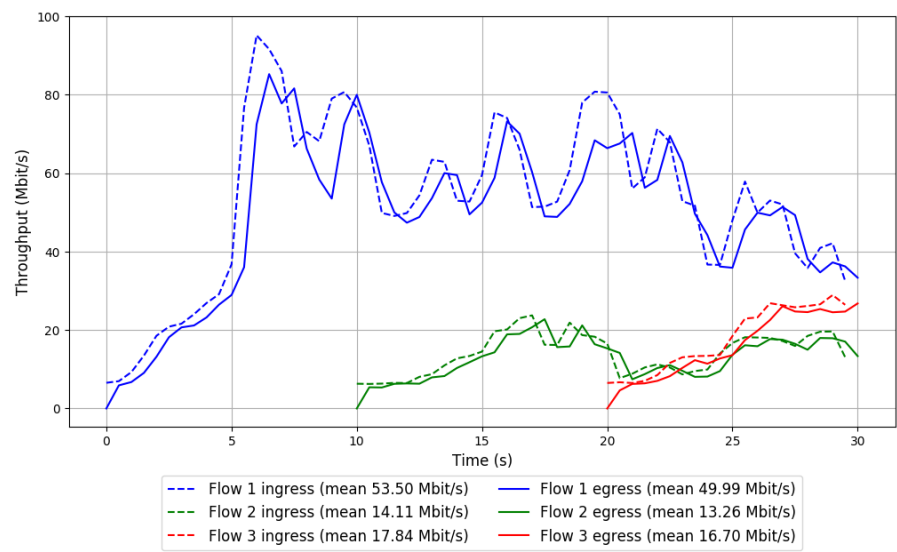
-- Flow 3:

Average throughput: 16.70 Mbit/s

95th percentile per-packet one-way delay: 35.291 ms

Loss rate: 6.37%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-24 17:25:52

End at: 2018-07-24 17:26:22

Local clock offset: 0.767 ms

Remote clock offset: 2.745 ms

Below is generated by plot.py at 2018-07-24 17:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.68 Mbit/s

95th percentile per-packet one-way delay: 40.790 ms

Loss rate: 8.99%

-- Flow 1:

Average throughput: 68.44 Mbit/s

95th percentile per-packet one-way delay: 40.774 ms

Loss rate: 9.15%

-- Flow 2:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 40.671 ms

Loss rate: 7.53%

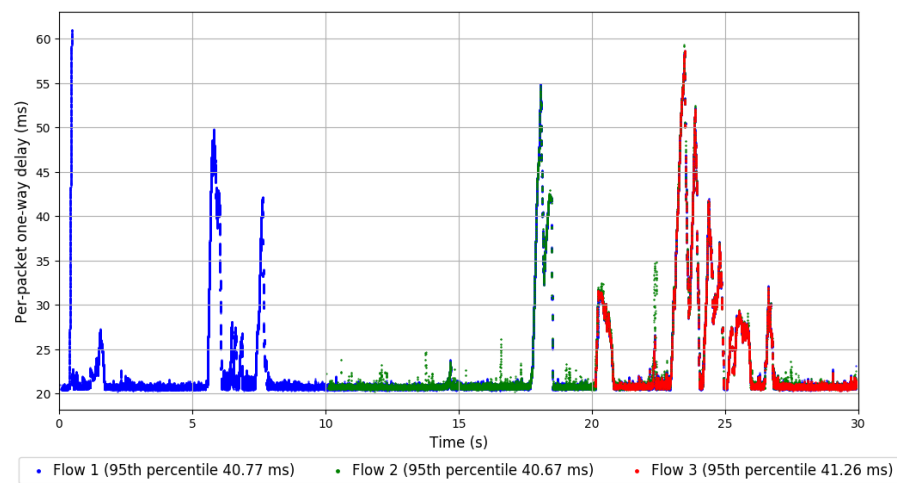
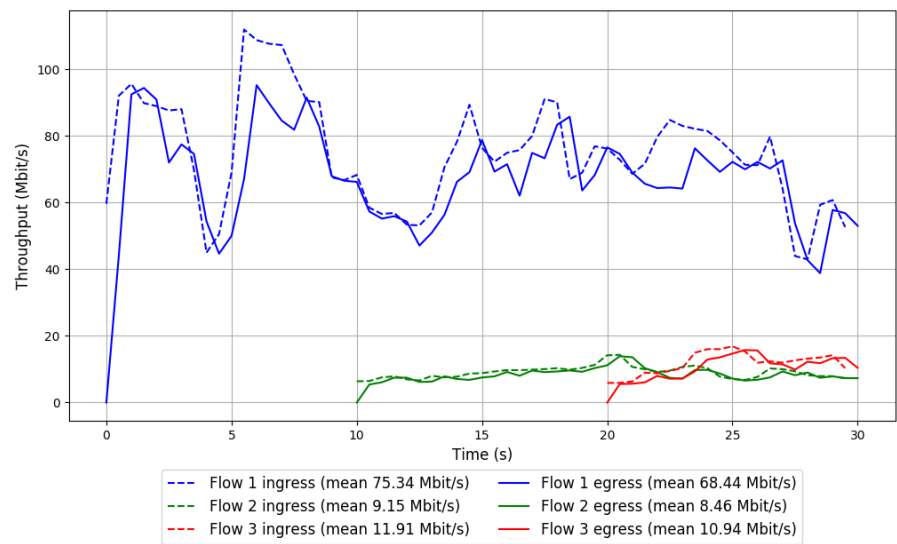
-- Flow 3:

Average throughput: 10.94 Mbit/s

95th percentile per-packet one-way delay: 41.257 ms

Loss rate: 8.22%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-24 14:30:14

End at: 2018-07-24 14:30:44

Local clock offset: 2.145 ms

Remote clock offset: 1.319 ms

Below is generated by plot.py at 2018-07-24 17:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.56 Mbit/s

95th percentile per-packet one-way delay: 41.862 ms

Loss rate: 2.72%

-- Flow 1:

Average throughput: 16.32 Mbit/s

95th percentile per-packet one-way delay: 55.382 ms

Loss rate: 3.64%

-- Flow 2:

Average throughput: 12.94 Mbit/s

95th percentile per-packet one-way delay: 22.089 ms

Loss rate: 1.38%

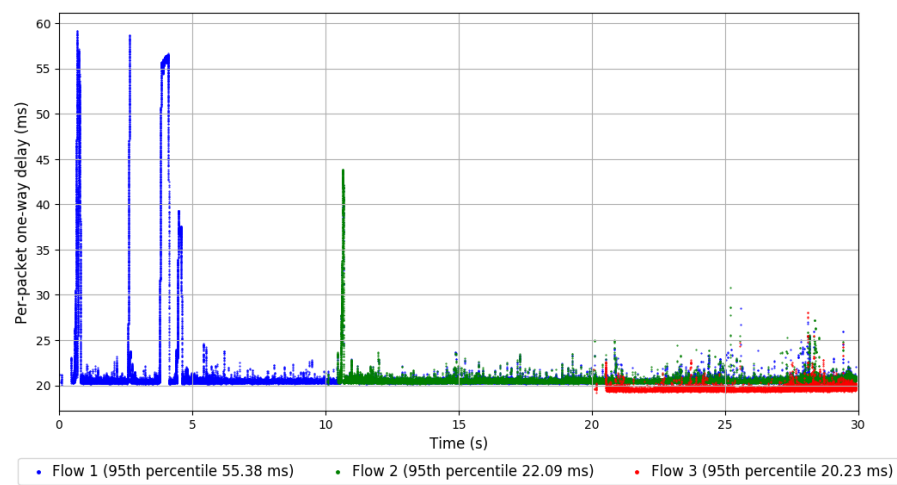
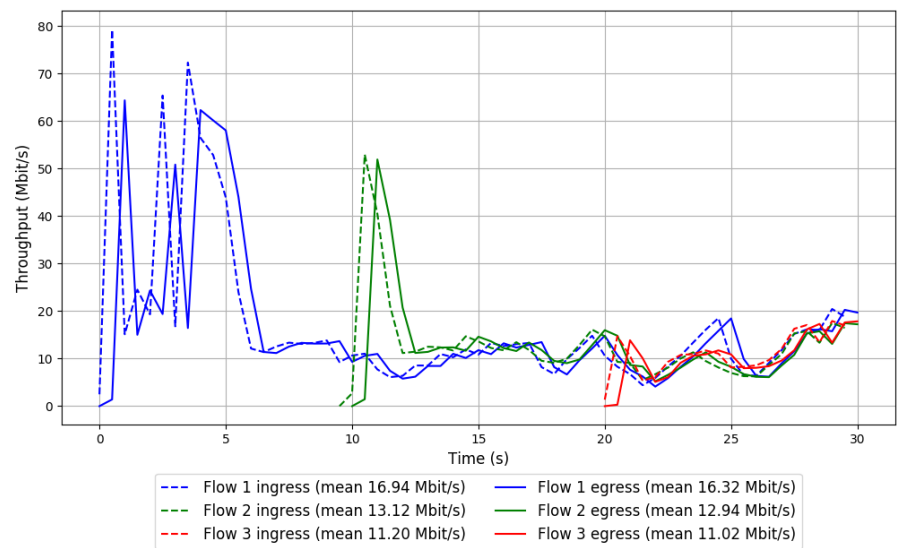
-- Flow 3:

Average throughput: 11.02 Mbit/s

95th percentile per-packet one-way delay: 20.229 ms

Loss rate: 1.64%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-24 14:50:00

End at: 2018-07-24 14:50:30

Local clock offset: 0.918 ms

Remote clock offset: 9.38 ms

Below is generated by plot.py at 2018-07-24 17:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.92 Mbit/s

95th percentile per-packet one-way delay: 57.102 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 27.95 Mbit/s

95th percentile per-packet one-way delay: 65.829 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 25.84 Mbit/s

95th percentile per-packet one-way delay: 51.805 ms

Loss rate: 1.74%

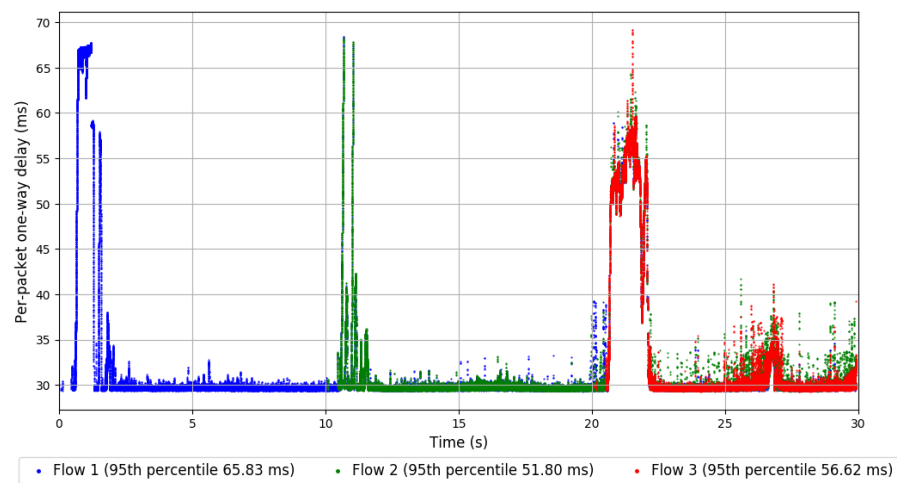
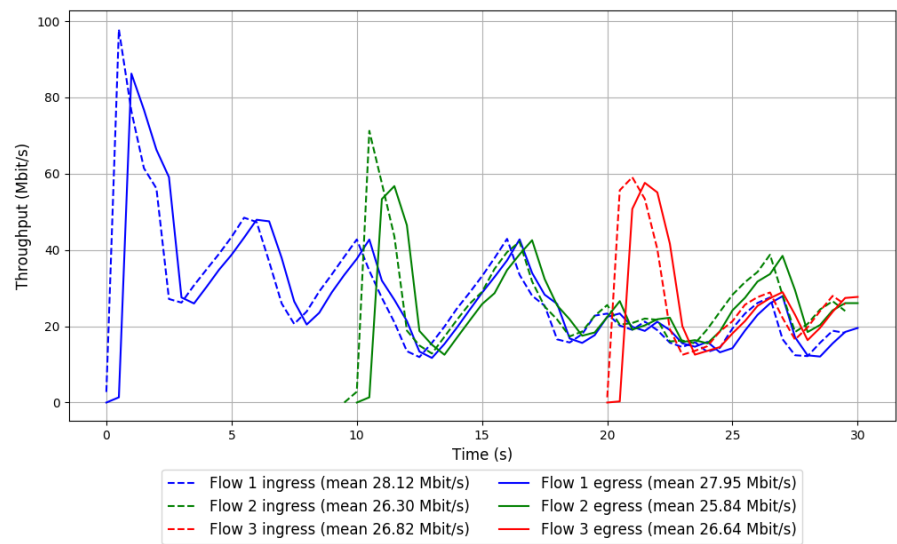
-- Flow 3:

Average throughput: 26.64 Mbit/s

95th percentile per-packet one-way delay: 56.620 ms

Loss rate: 0.57%

Run 2: Report of QUIC Cubic — Data Link

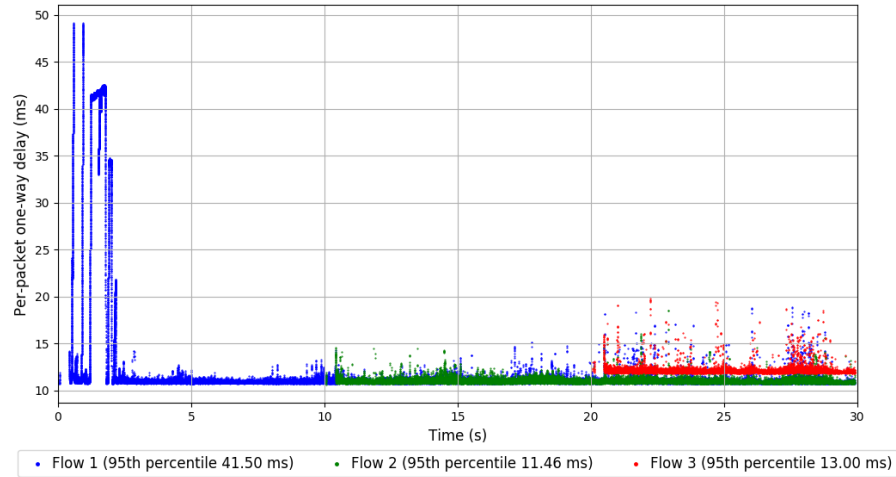
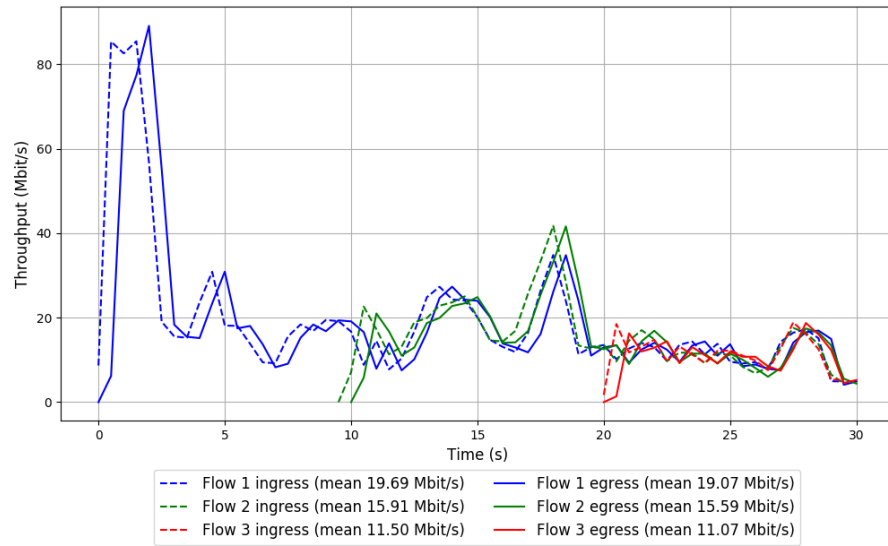


Run 3: Statistics of QUIC Cubic

Start at: 2018-07-24 15:09:56
End at: 2018-07-24 15:10:26
Local clock offset: 1.871 ms
Remote clock offset: -4.778 ms

Below is generated by plot.py at 2018-07-24 17:58:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.10 Mbit/s
95th percentile per-packet one-way delay: 40.349 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 19.07 Mbit/s
95th percentile per-packet one-way delay: 41.496 ms
Loss rate: 3.14%
-- Flow 2:
Average throughput: 15.59 Mbit/s
95th percentile per-packet one-way delay: 11.460 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 11.07 Mbit/s
95th percentile per-packet one-way delay: 13.003 ms
Loss rate: 3.69%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-24 15:30:12

End at: 2018-07-24 15:30:42

Local clock offset: 0.513 ms

Remote clock offset: 9.025 ms

Below is generated by plot.py at 2018-07-24 17:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.06 Mbit/s

95th percentile per-packet one-way delay: 22.935 ms

Loss rate: 3.58%

-- Flow 1:

Average throughput: 10.18 Mbit/s

95th percentile per-packet one-way delay: 23.038 ms

Loss rate: 2.93%

-- Flow 2:

Average throughput: 10.54 Mbit/s

95th percentile per-packet one-way delay: 21.949 ms

Loss rate: 4.14%

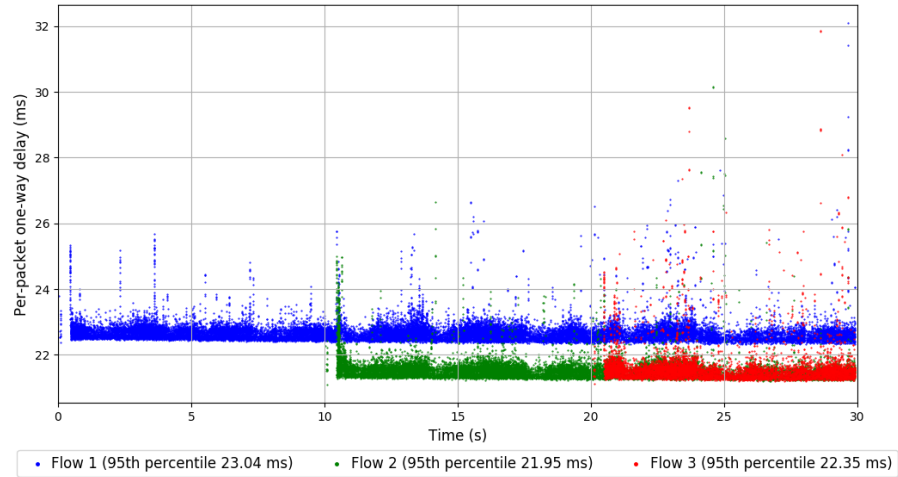
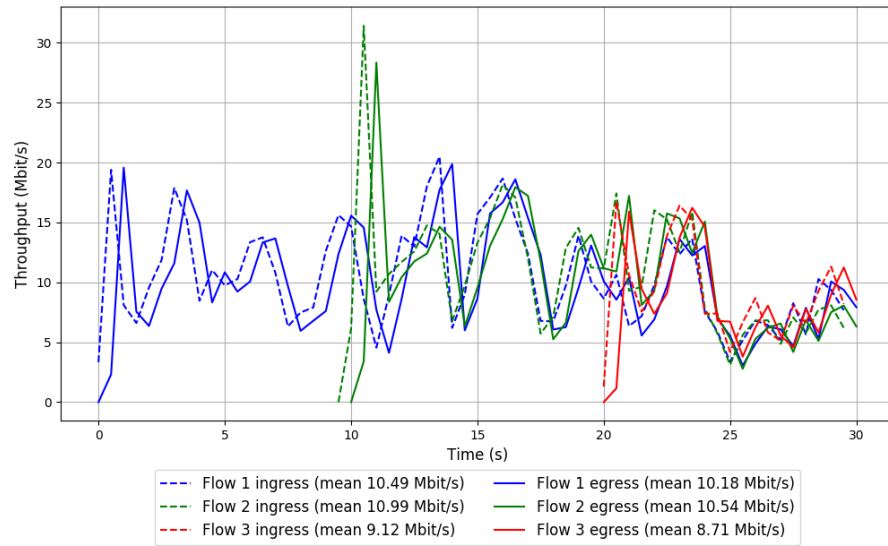
-- Flow 3:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 22.352 ms

Loss rate: 4.46%

Run 4: Report of QUIC Cubic — Data Link

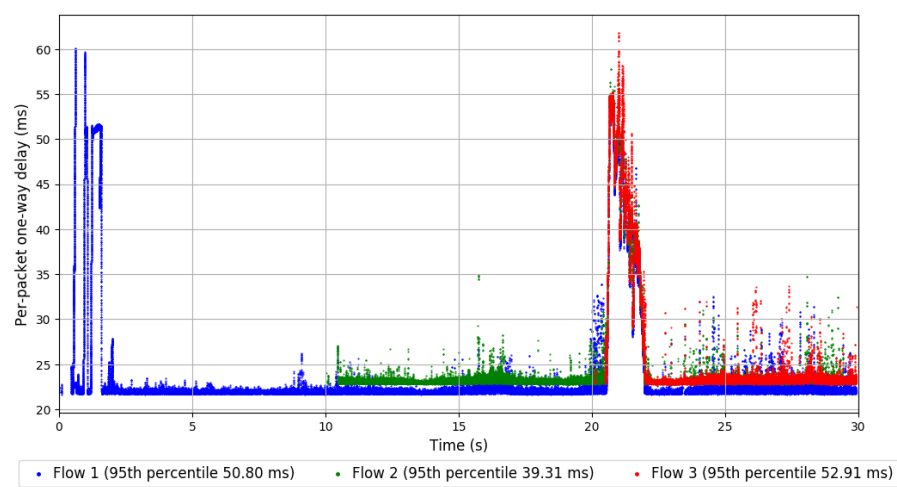
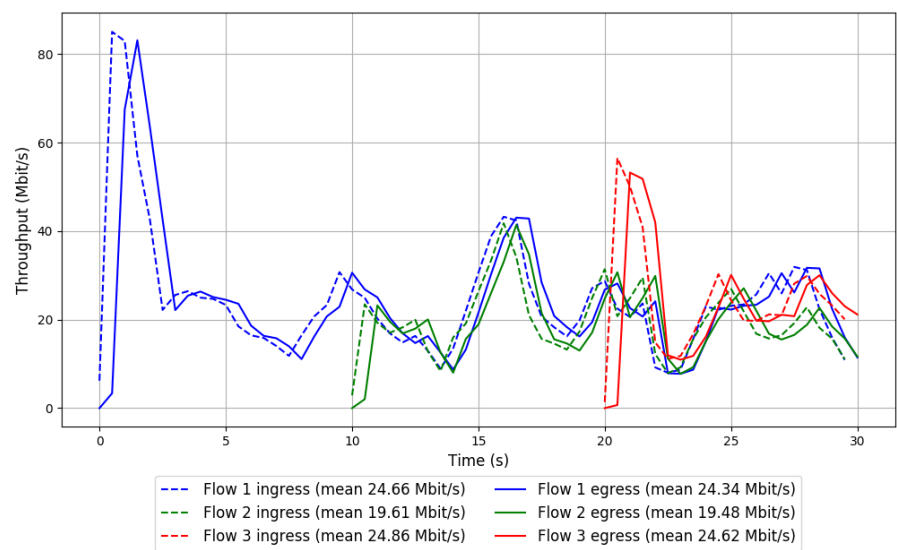


Run 5: Statistics of QUIC Cubic

Start at: 2018-07-24 15:50:37
End at: 2018-07-24 15:51:07
Local clock offset: 2.639 ms
Remote clock offset: 13.575 ms

Below is generated by plot.py at 2018-07-24 17:58:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 45.40 Mbit/s
95th percentile per-packet one-way delay: 49.337 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 24.34 Mbit/s
95th percentile per-packet one-way delay: 50.798 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 19.48 Mbit/s
95th percentile per-packet one-way delay: 39.309 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 52.909 ms
Loss rate: 0.88%

Run 5: Report of QUIC Cubic — Data Link

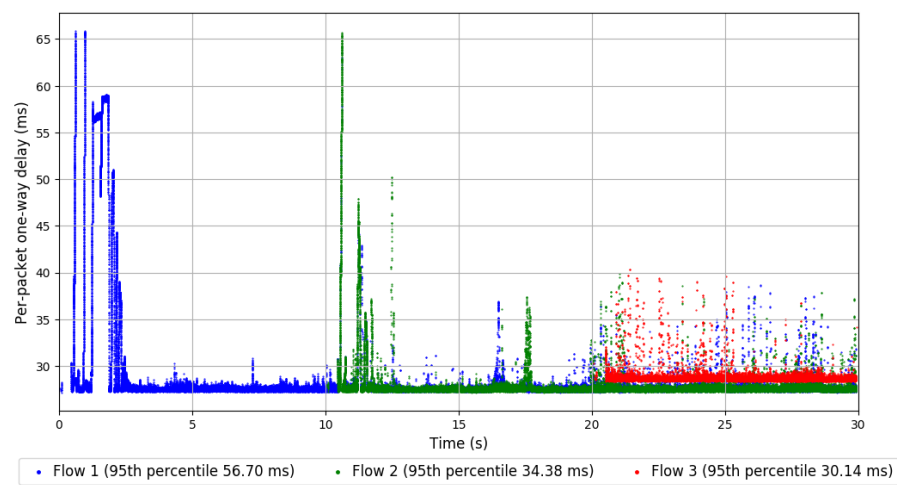
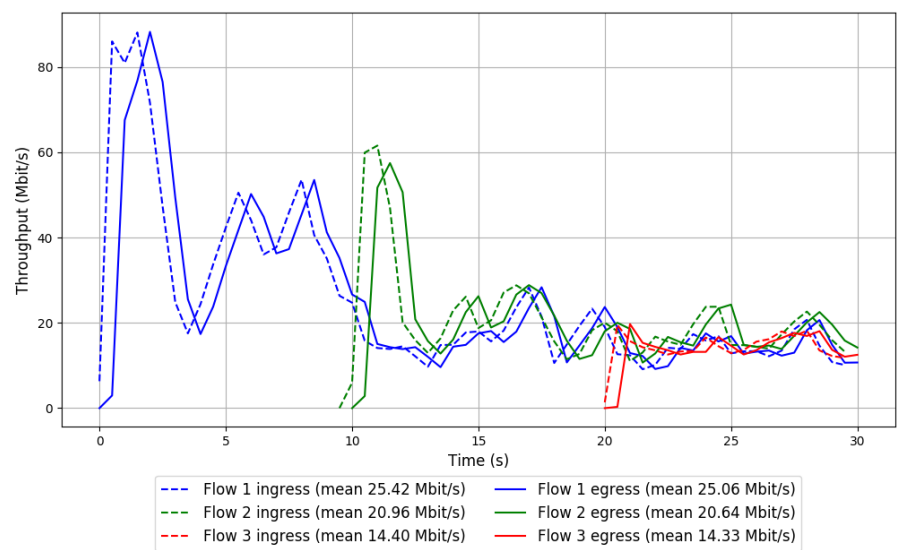


Run 6: Statistics of QUIC Cubic

Start at: 2018-07-24 16:10:44
End at: 2018-07-24 16:11:14
Local clock offset: 0.298 ms
Remote clock offset: 18.323 ms

Below is generated by plot.py at 2018-07-24 17:58:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 43.51 Mbit/s
95th percentile per-packet one-way delay: 50.734 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 25.06 Mbit/s
95th percentile per-packet one-way delay: 56.701 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 20.64 Mbit/s
95th percentile per-packet one-way delay: 34.378 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 14.33 Mbit/s
95th percentile per-packet one-way delay: 30.145 ms
Loss rate: 0.44%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-24 16:30:45

End at: 2018-07-24 16:31:15

Local clock offset: 1.39 ms

Remote clock offset: 14.54 ms

Below is generated by plot.py at 2018-07-24 17:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.96 Mbit/s

95th percentile per-packet one-way delay: 22.659 ms

Loss rate: 2.87%

-- Flow 1:

Average throughput: 13.87 Mbit/s

95th percentile per-packet one-way delay: 22.564 ms

Loss rate: 3.57%

-- Flow 2:

Average throughput: 11.90 Mbit/s

95th percentile per-packet one-way delay: 22.679 ms

Loss rate: 2.28%

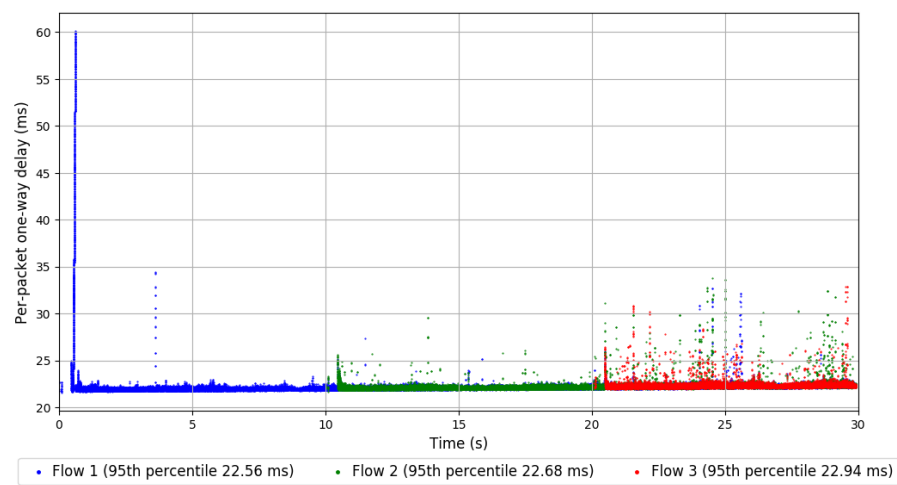
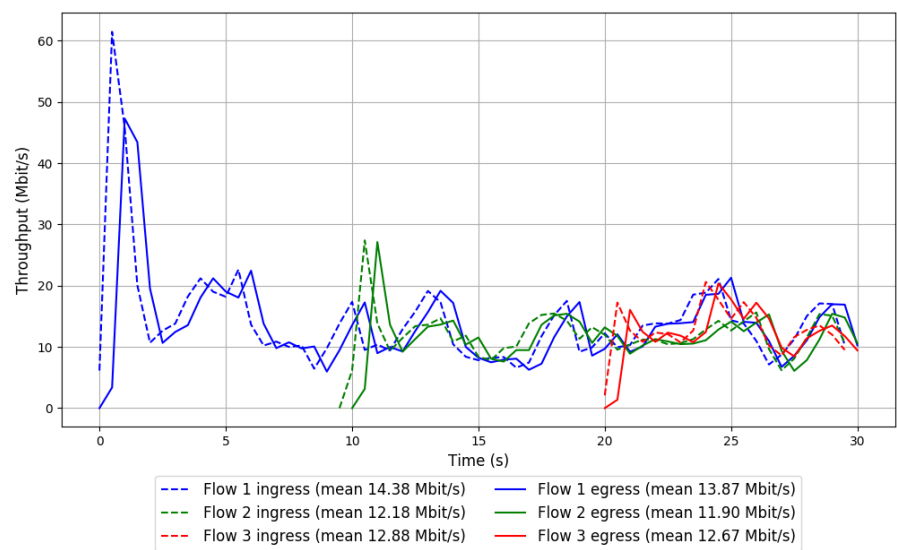
-- Flow 3:

Average throughput: 12.67 Mbit/s

95th percentile per-packet one-way delay: 22.937 ms

Loss rate: 1.63%

Run 7: Report of QUIC Cubic — Data Link

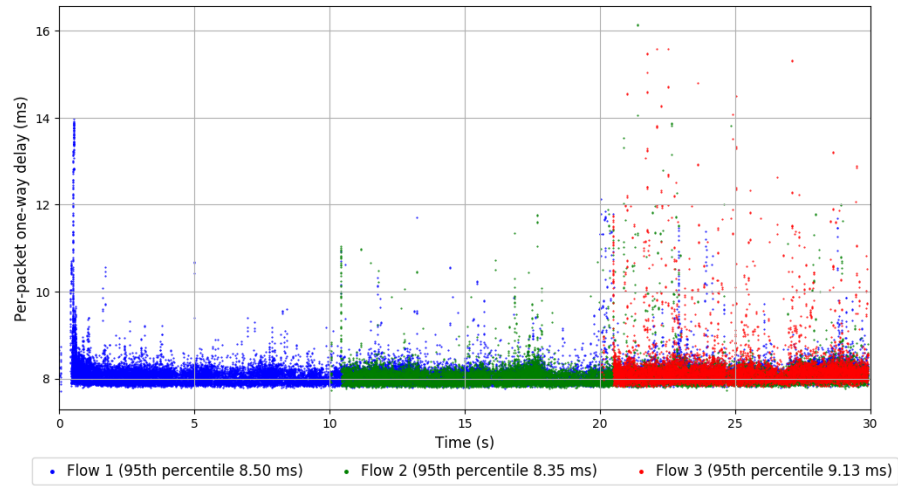
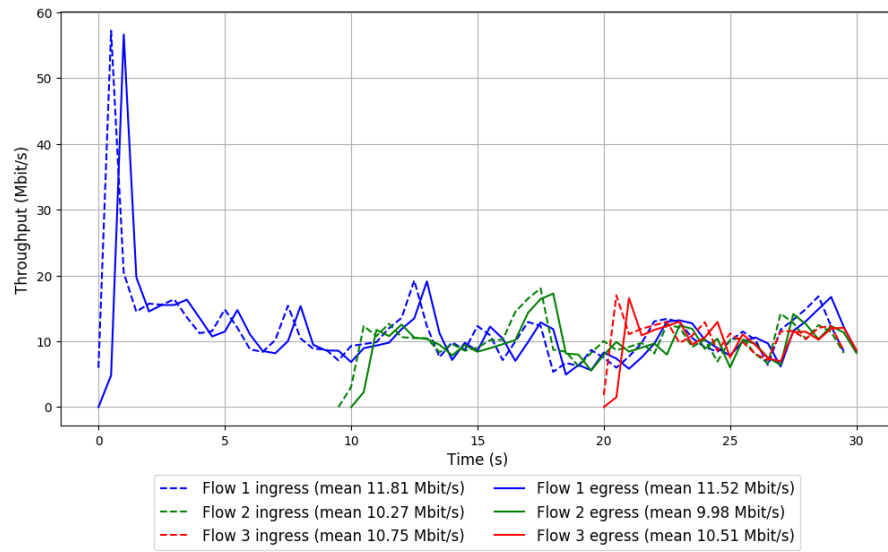


Run 8: Statistics of QUIC Cubic

Start at: 2018-07-24 16:51:02
End at: 2018-07-24 16:51:32
Local clock offset: 0.542 ms
Remote clock offset: -5.115 ms

Below is generated by plot.py at 2018-07-24 17:58:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.64 Mbit/s
95th percentile per-packet one-way delay: 8.497 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 11.52 Mbit/s
95th percentile per-packet one-way delay: 8.496 ms
Loss rate: 2.39%
-- Flow 2:
Average throughput: 9.98 Mbit/s
95th percentile per-packet one-way delay: 8.352 ms
Loss rate: 2.81%
-- Flow 3:
Average throughput: 10.51 Mbit/s
95th percentile per-packet one-way delay: 9.129 ms
Loss rate: 2.21%

Run 8: Report of QUIC Cubic — Data Link

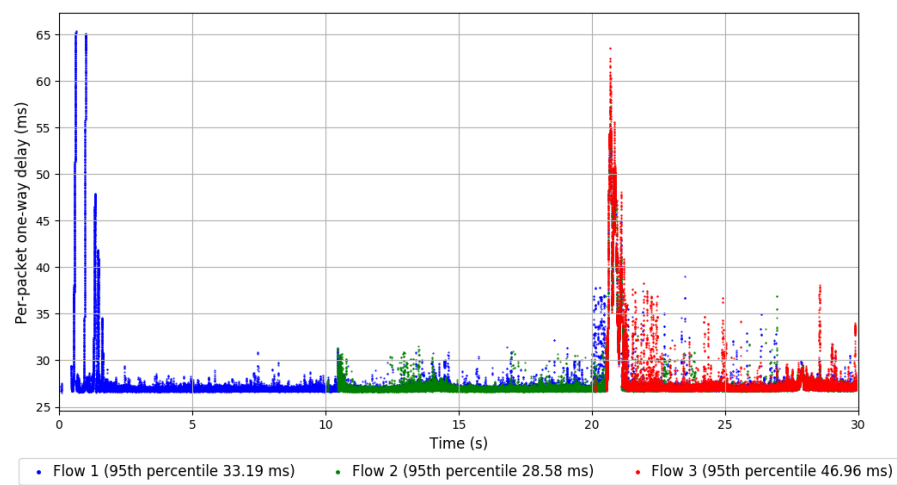
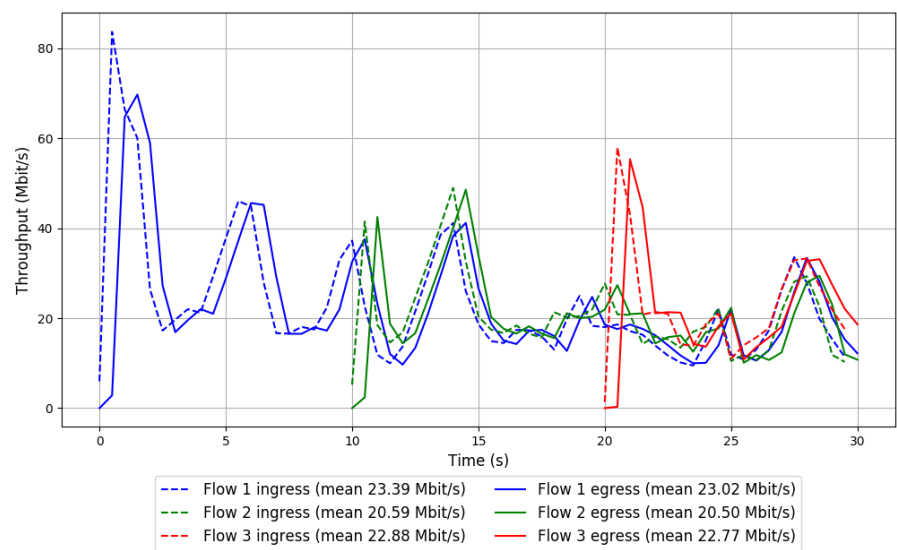


Run 9: Statistics of QUIC Cubic

Start at: 2018-07-24 17:10:53
End at: 2018-07-24 17:11:23
Local clock offset: 0.021 ms
Remote clock offset: 10.182 ms

Below is generated by plot.py at 2018-07-24 17:58:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.15 Mbit/s
95th percentile per-packet one-way delay: 34.762 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 23.02 Mbit/s
95th percentile per-packet one-way delay: 33.186 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 20.50 Mbit/s
95th percentile per-packet one-way delay: 28.580 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 22.77 Mbit/s
95th percentile per-packet one-way delay: 46.959 ms
Loss rate: 0.48%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-24 17:30:35

End at: 2018-07-24 17:31:05

Local clock offset: -0.384 ms

Remote clock offset: 3.362 ms

Below is generated by plot.py at 2018-07-24 17:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.72 Mbit/s

95th percentile per-packet one-way delay: 27.778 ms

Loss rate: 2.69%

-- Flow 1:

Average throughput: 16.67 Mbit/s

95th percentile per-packet one-way delay: 24.522 ms

Loss rate: 1.47%

-- Flow 2:

Average throughput: 16.56 Mbit/s

95th percentile per-packet one-way delay: 27.734 ms

Loss rate: 3.81%

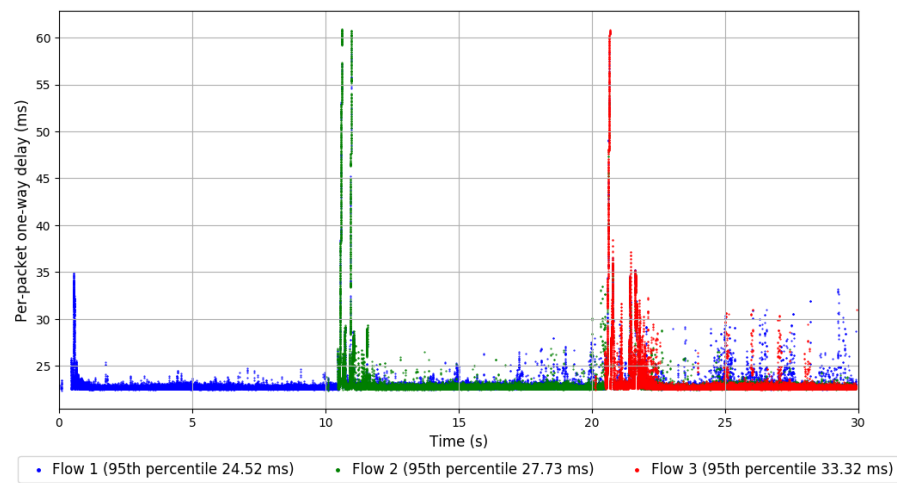
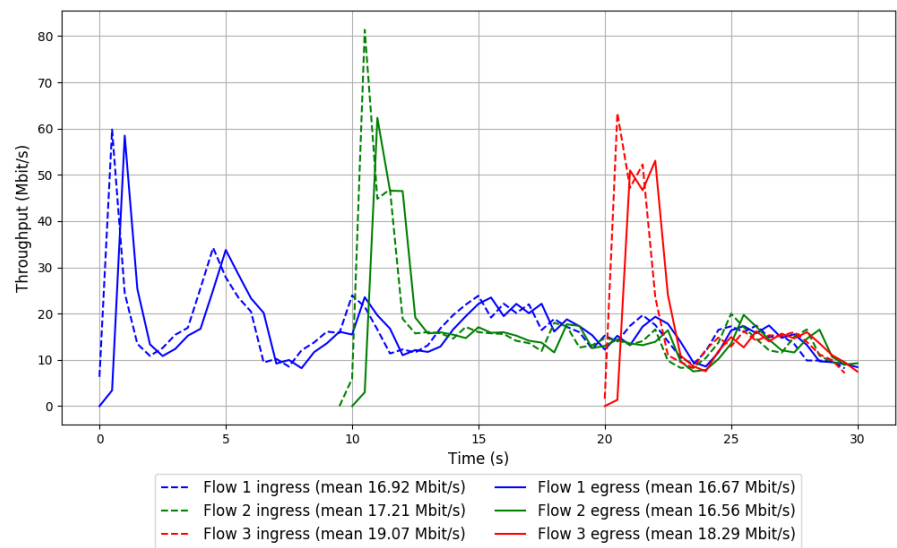
-- Flow 3:

Average throughput: 18.29 Mbit/s

95th percentile per-packet one-way delay: 33.321 ms

Loss rate: 3.97%

Run 10: Report of QUIC Cubic — Data Link

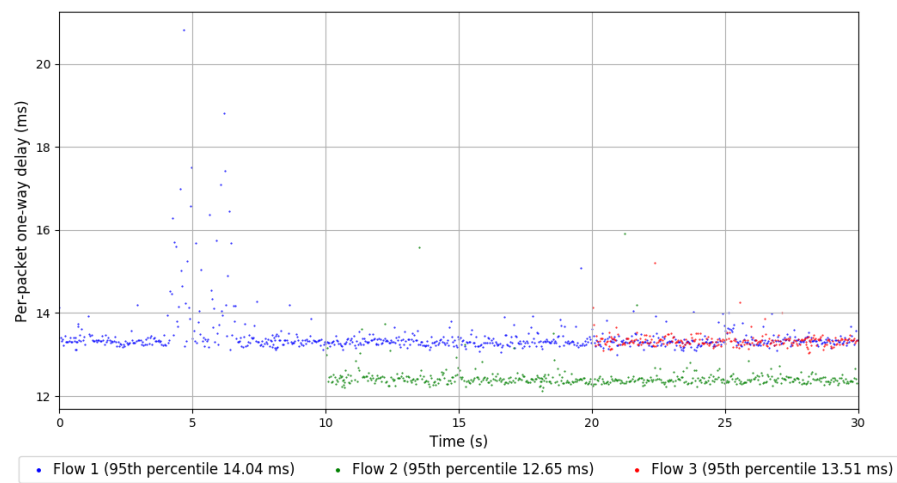
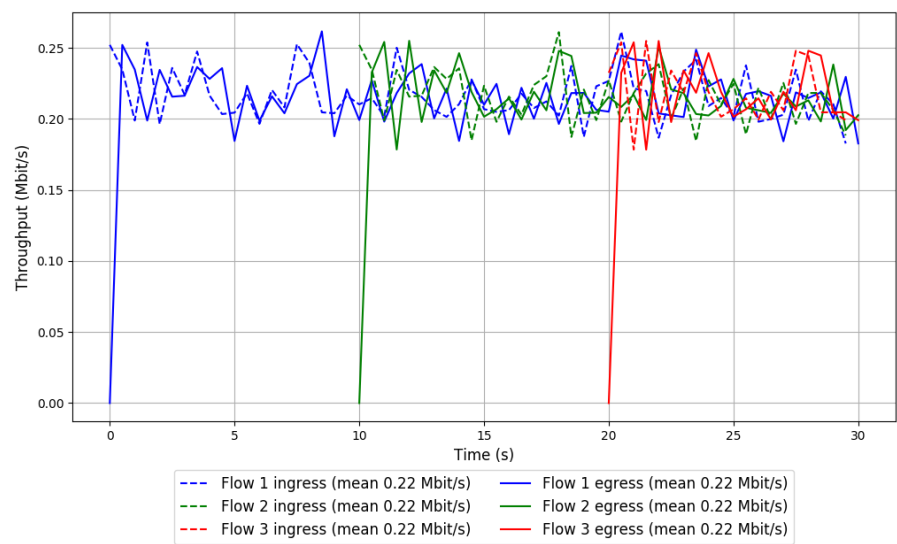


```
Run 1: Statistics of SReAM

Start at: 2018-07-24 14:33:41
End at: 2018-07-24 14:34:11
Local clock offset: 1.256 ms
Remote clock offset: -6.921 ms

# Below is generated by plot.py at 2018-07-24 17:58:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 13.686 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 14.037 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 12.655 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 13.510 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

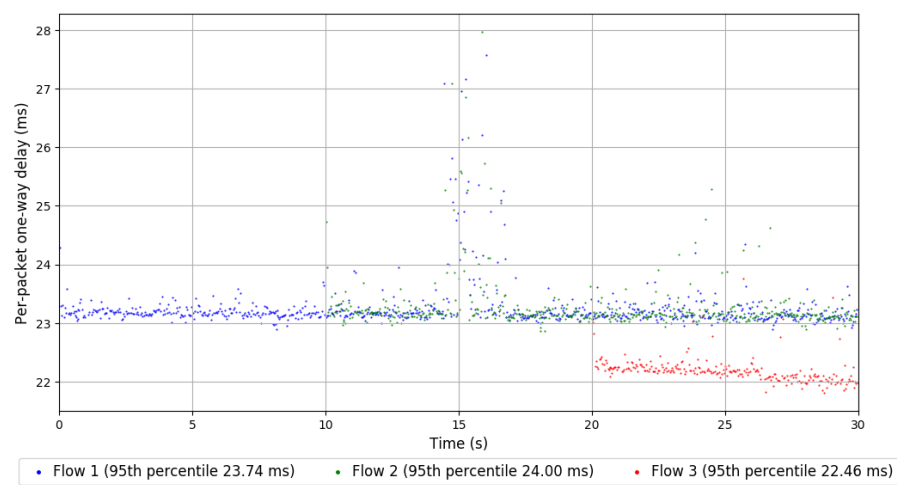
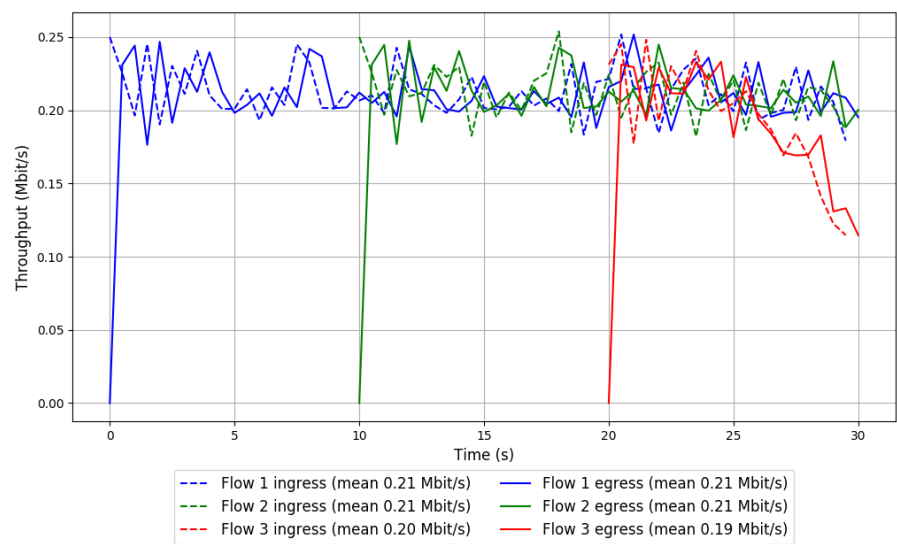


```
Run 2: Statistics of SReAM

Start at: 2018-07-24 14:53:26
End at: 2018-07-24 14:53:56
Local clock offset: 1.529 ms
Remote clock offset: 4.019 ms

# Below is generated by plot.py at 2018-07-24 17:58:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 23.703 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 23.742 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 23.996 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 22.460 ms
Loss rate: 1.24%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-24 15:13:25

End at: 2018-07-24 15:13:55

Local clock offset: 3.204 ms

Remote clock offset: 3.762 ms

Below is generated by plot.py at 2018-07-24 17:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.088 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 19.107 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 19.098 ms

Loss rate: 0.00%

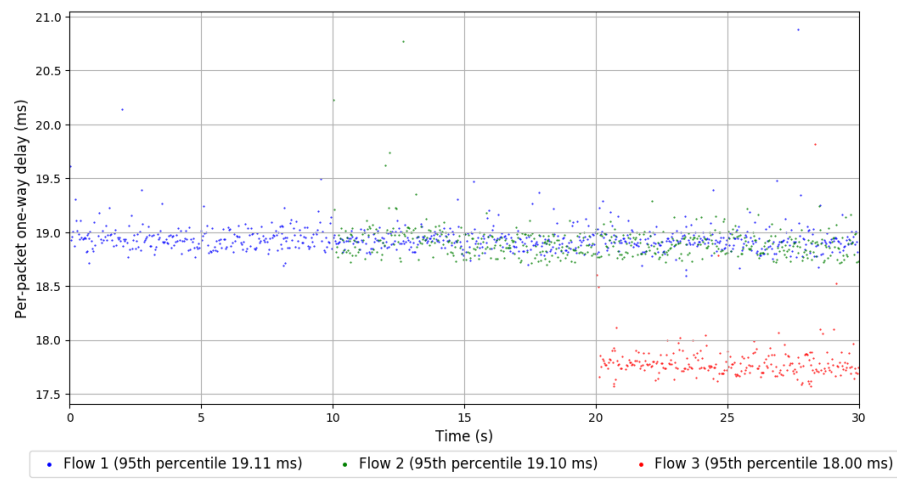
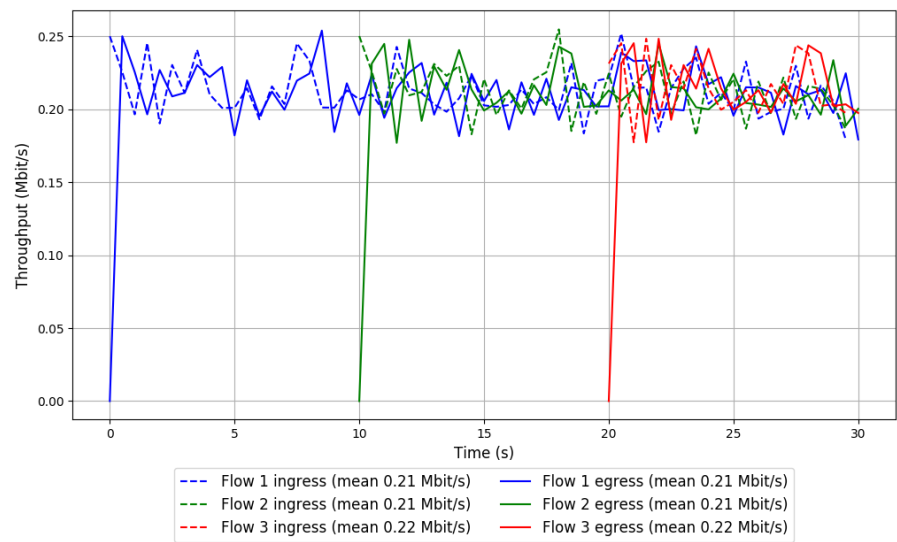
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.998 ms

Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link

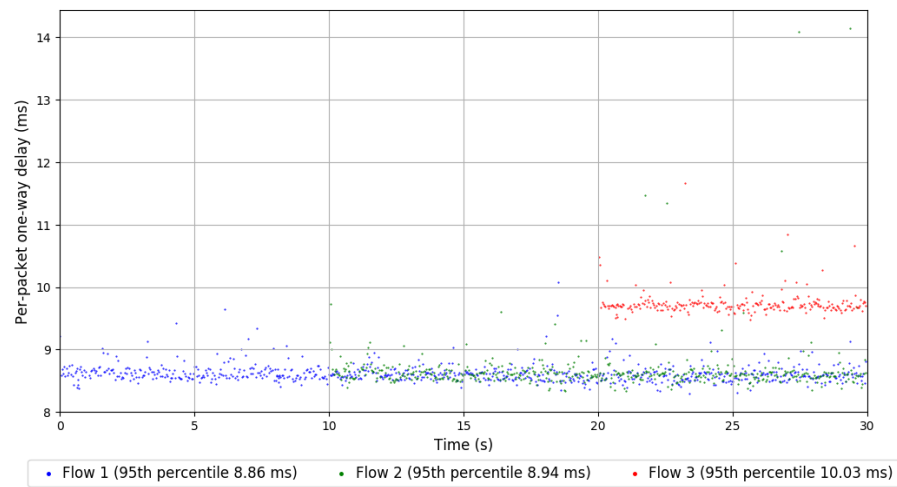
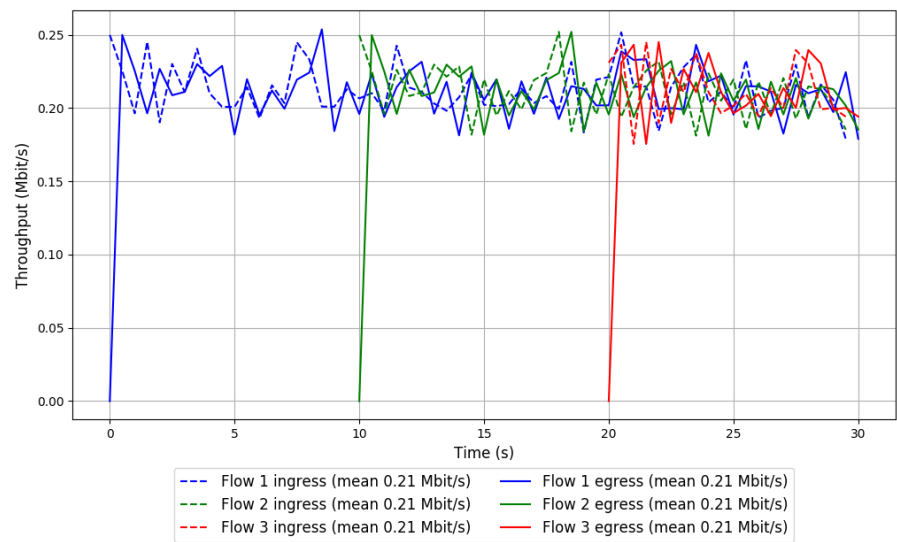


Run 4: Statistics of SReAM

Start at: 2018-07-24 15:33:37
End at: 2018-07-24 15:34:07
Local clock offset: 1.878 ms
Remote clock offset: -2.087 ms

Below is generated by plot.py at 2018-07-24 17:58:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 9.741 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 8.864 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 8.939 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 10.031 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-24 15:54:07

End at: 2018-07-24 15:54:37

Local clock offset: -0.054 ms

Remote clock offset: 15.91 ms

Below is generated by plot.py at 2018-07-24 17:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 27.991 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 28.065 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 27.050 ms

Loss rate: 0.00%

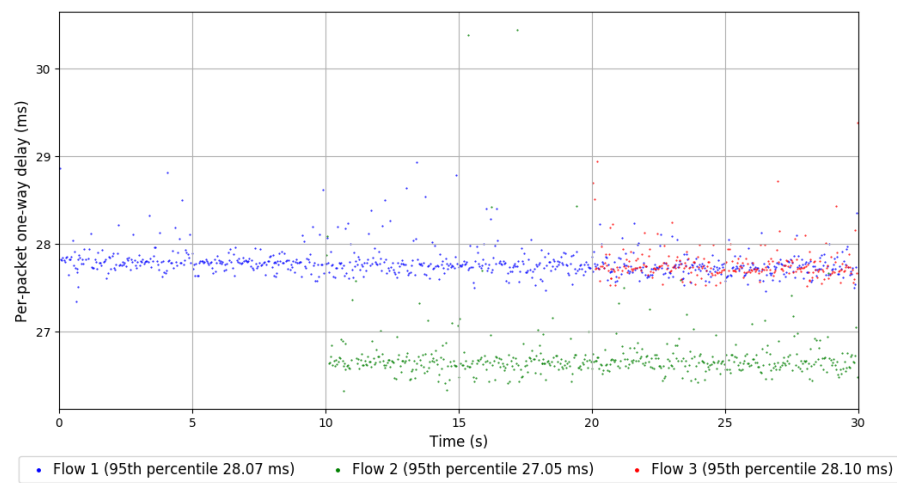
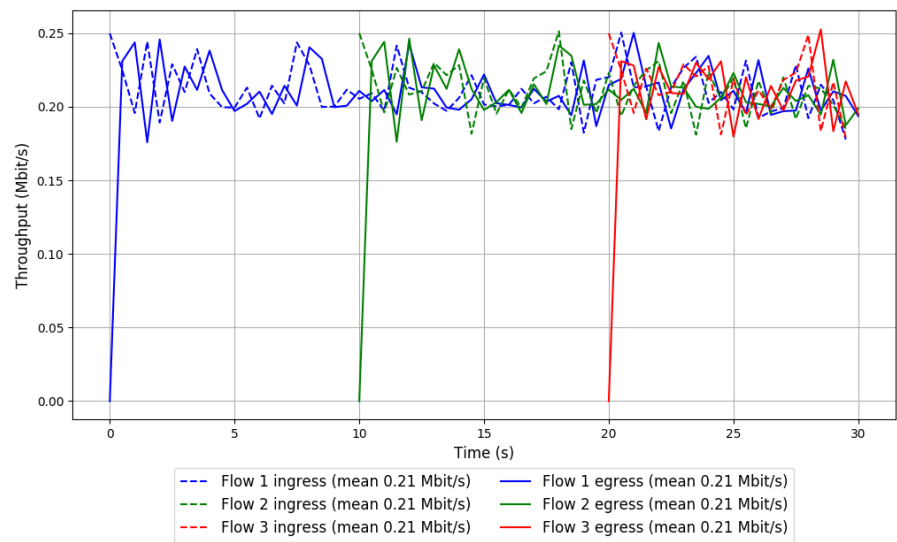
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 28.101 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

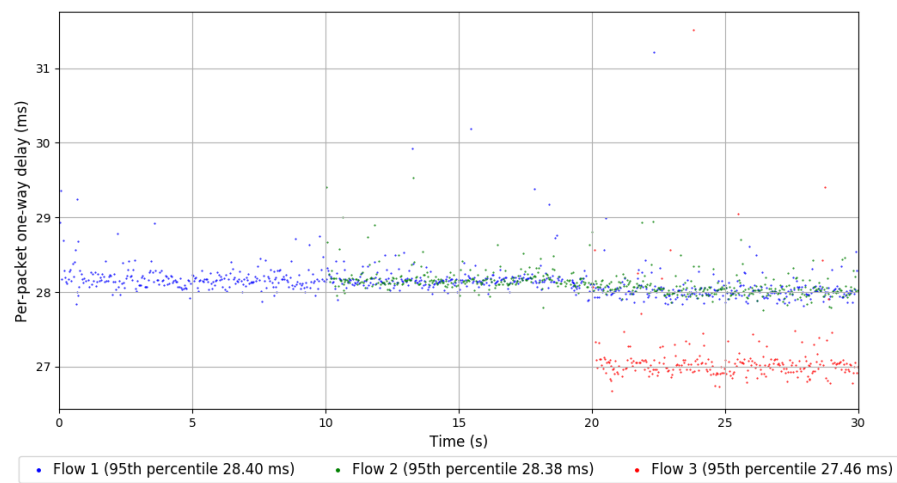
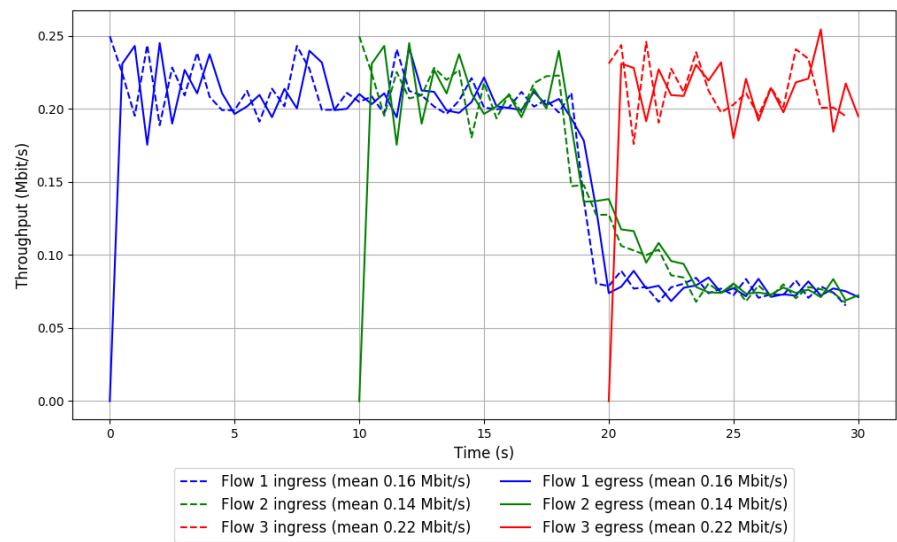


Run 6: Statistics of SReAM

Start at: 2018-07-24 16:14:17
End at: 2018-07-24 16:14:47
Local clock offset: -0.933 ms
Remote clock offset: 17.002 ms

Below is generated by plot.py at 2018-07-24 17:58:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 28.378 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 28.404 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 28.381 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.457 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

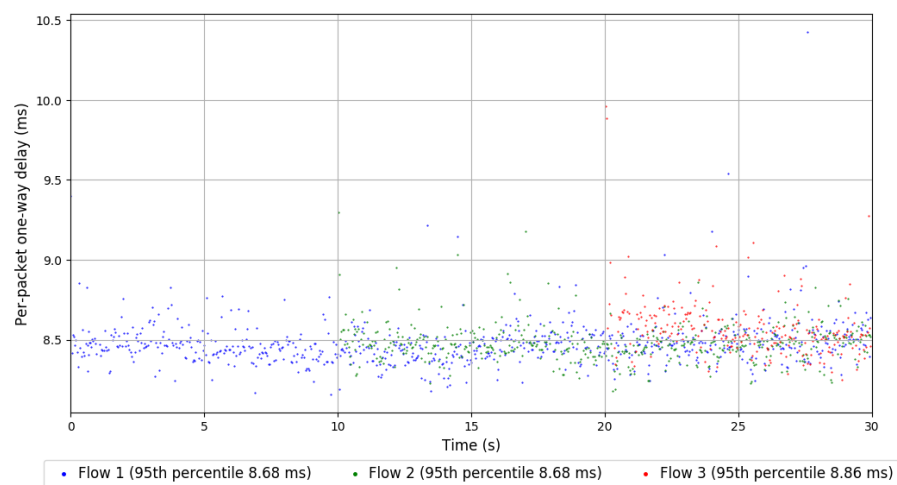
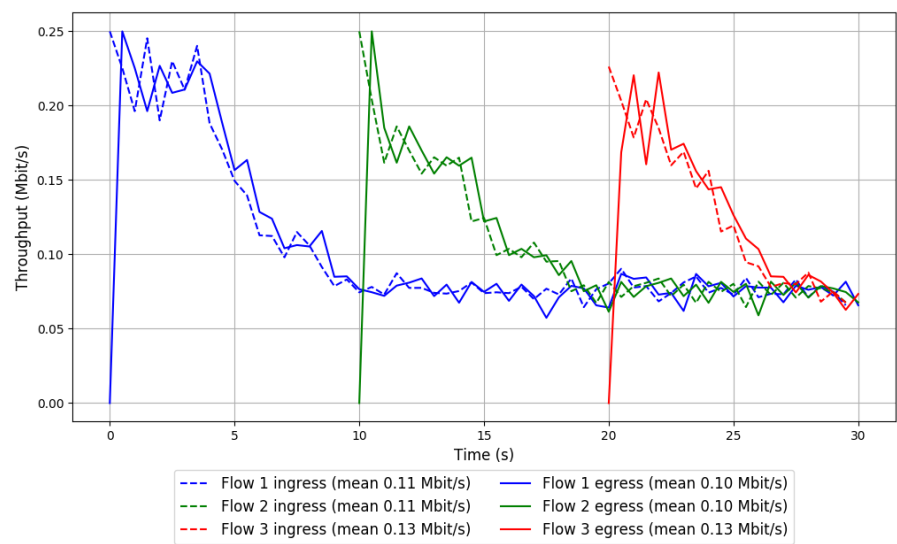


Run 7: Statistics of SCReAM

Start at: 2018-07-24 16:34:08
End at: 2018-07-24 16:34:38
Local clock offset: -0.791 ms
Remote clock offset: -2.891 ms

Below is generated by plot.py at 2018-07-24 17:58:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 8.711 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 8.680 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 8.676 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 8.858 ms
Loss rate: 2.34%

Run 7: Report of SReAM — Data Link

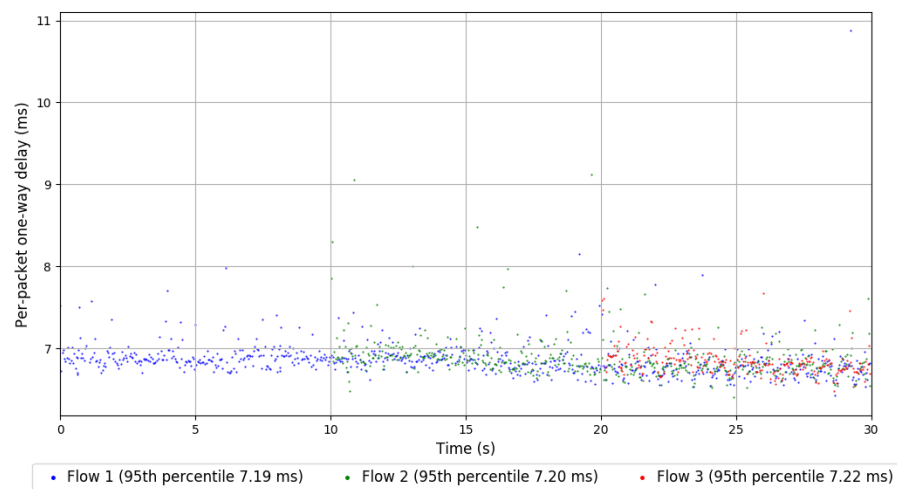
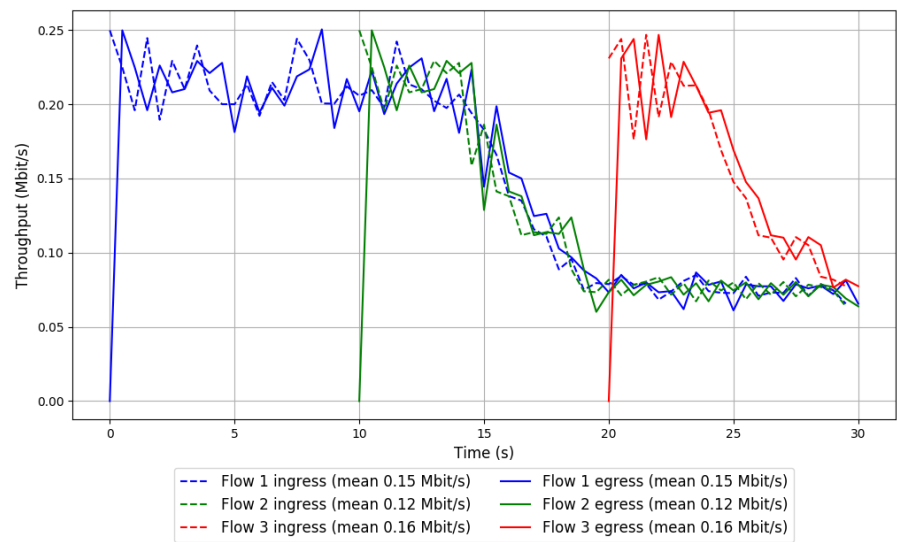


Run 8: Statistics of SCReAM

Start at: 2018-07-24 16:54:27
End at: 2018-07-24 16:54:57
Local clock offset: 1.113 ms
Remote clock offset: -5.919 ms

Below is generated by plot.py at 2018-07-24 17:58:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 7.205 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 7.189 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 7.199 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 7.222 ms
Loss rate: 0.81%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-24 17:14:18

End at: 2018-07-24 17:14:48

Local clock offset: -1.416 ms

Remote clock offset: 8.381 ms

Below is generated by plot.py at 2018-07-24 17:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 27.407 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 27.375 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 27.372 ms

Loss rate: 0.43%

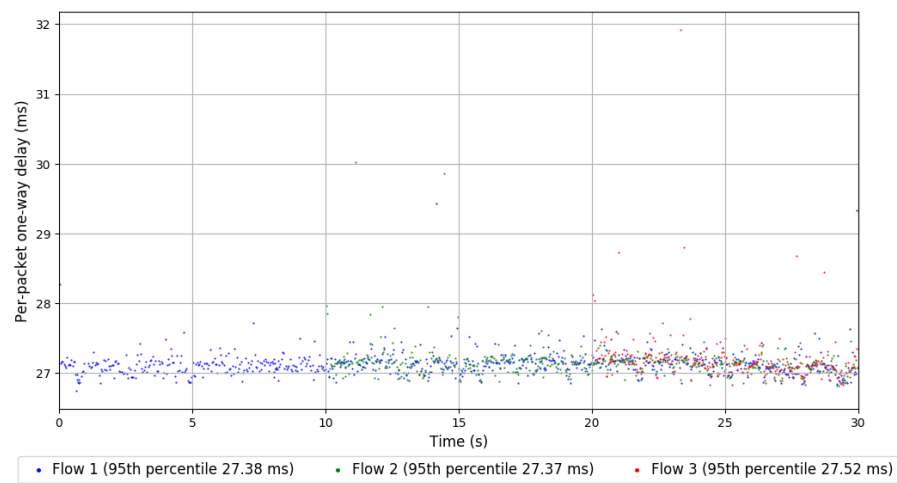
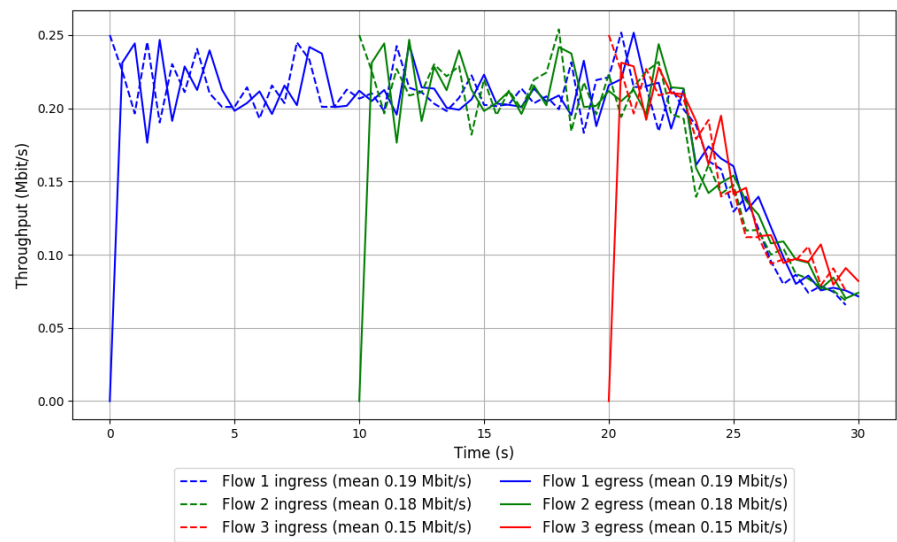
-- Flow 3:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 27.525 ms

Loss rate: 1.14%

Run 9: Report of SReAM — Data Link

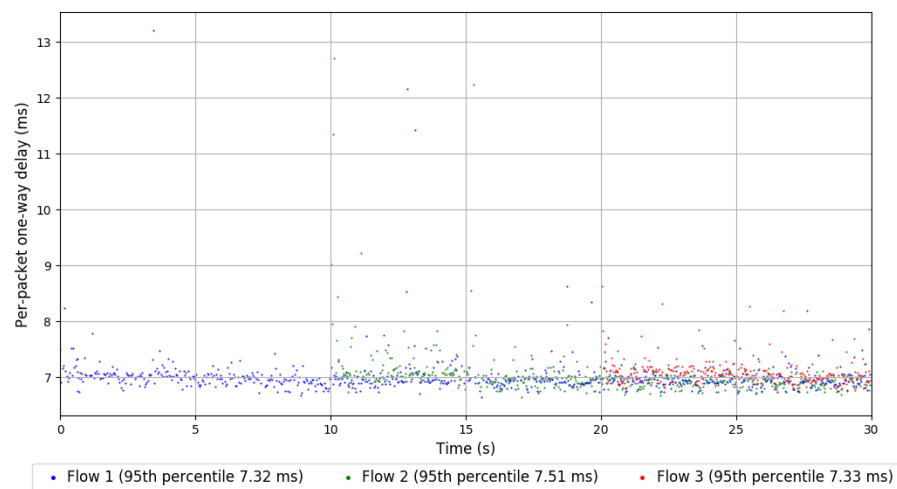
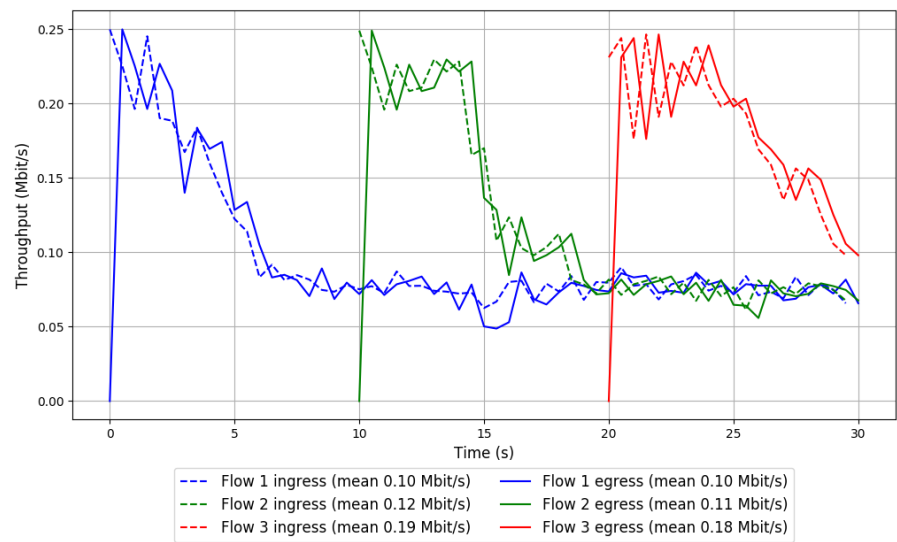


Run 10: Statistics of SCReAM

Start at: 2018-07-24 17:34:01
End at: 2018-07-24 17:34:31
Local clock offset: 0.527 ms
Remote clock offset: -11.723 ms

Below is generated by plot.py at 2018-07-24 17:58:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 7.387 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 7.324 ms
Loss rate: 2.13%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 7.513 ms
Loss rate: 2.94%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 7.334 ms
Loss rate: 0.44%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-24 14:26:51

End at: 2018-07-24 14:27:21

Local clock offset: 1.249 ms

Remote clock offset: -5.99 ms

Below is generated by plot.py at 2018-07-24 17:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.71 Mbit/s

95th percentile per-packet one-way delay: 22.093 ms

Loss rate: 2.59%

-- Flow 1:

Average throughput: 16.13 Mbit/s

95th percentile per-packet one-way delay: 21.891 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 15.94 Mbit/s

95th percentile per-packet one-way delay: 22.251 ms

Loss rate: 2.22%

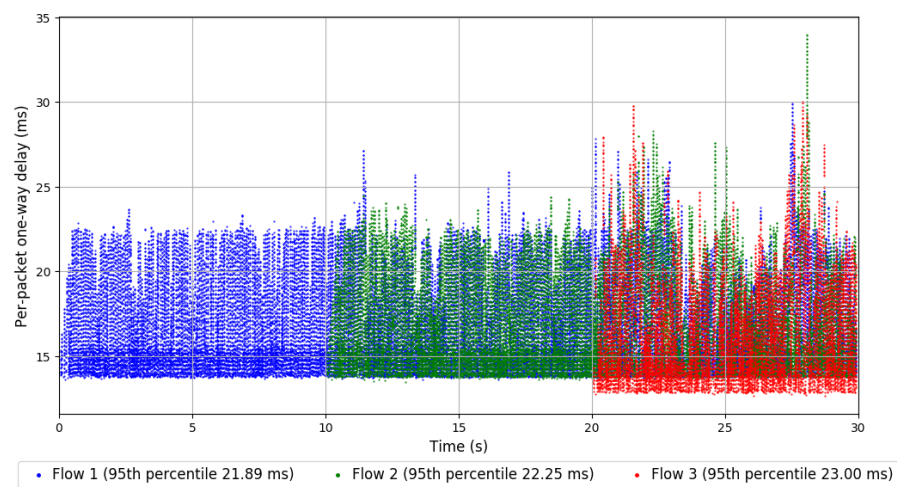
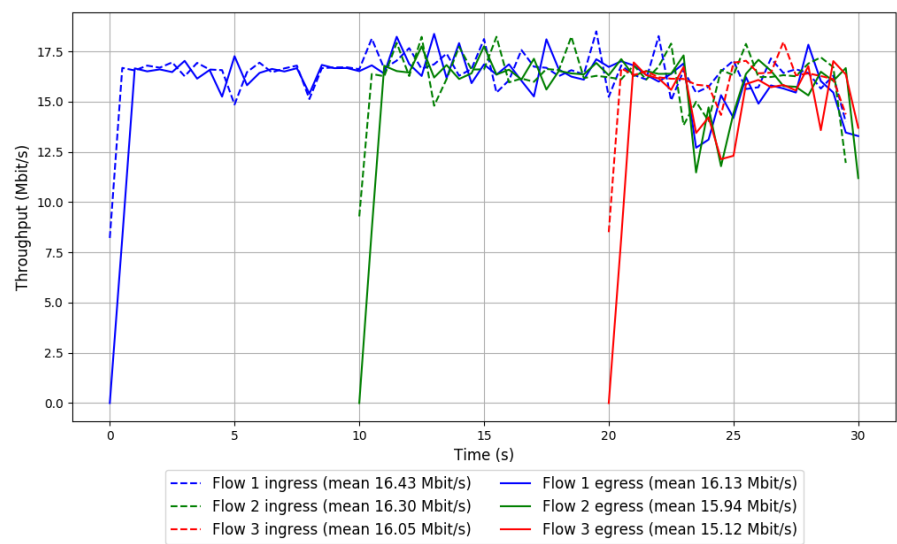
-- Flow 3:

Average throughput: 15.12 Mbit/s

95th percentile per-packet one-way delay: 23.003 ms

Loss rate: 5.74%

Run 1: Report of Sprout — Data Link

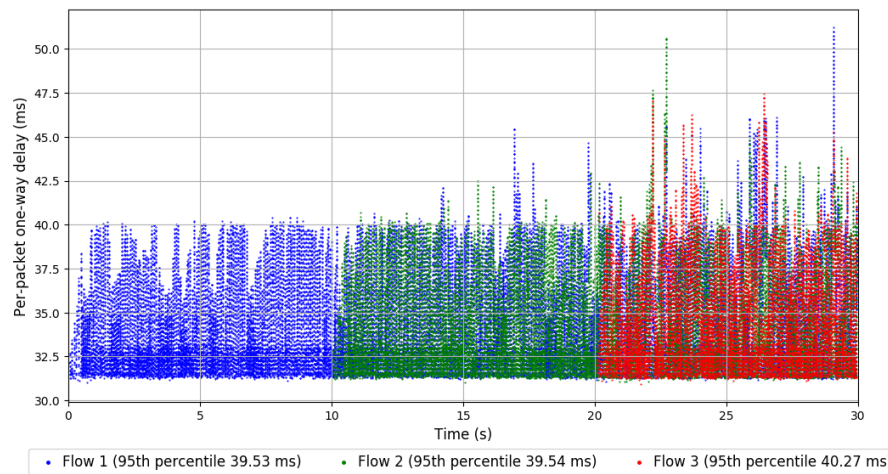
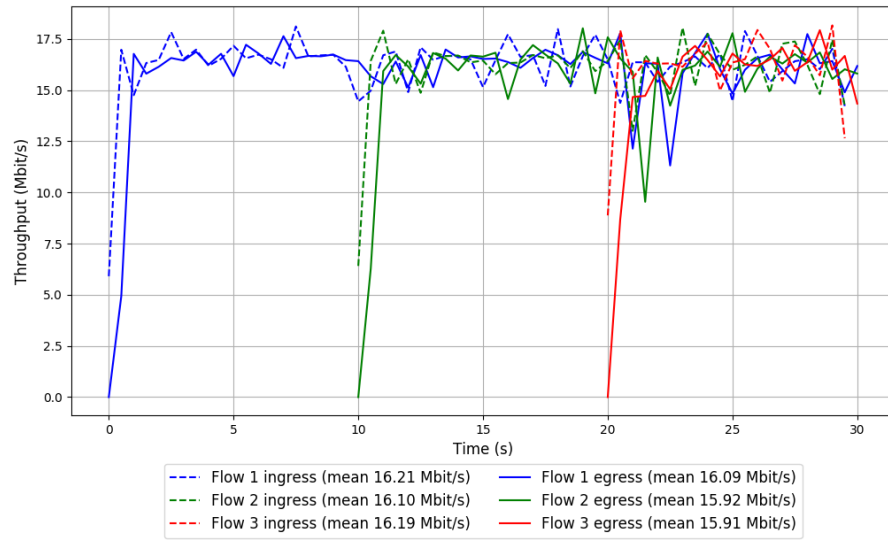


Run 2: Statistics of Sprout

Start at: 2018-07-24 14:46:30
End at: 2018-07-24 14:47:00
Local clock offset: 0.476 ms
Remote clock offset: 10.068 ms

```
# Below is generated by plot.py at 2018-07-24 17:58:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.95 Mbit/s
95th percentile per-packet one-way delay: 39.643 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 16.09 Mbit/s
95th percentile per-packet one-way delay: 39.527 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 39.537 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 15.91 Mbit/s
95th percentile per-packet one-way delay: 40.270 ms
Loss rate: 1.65%
```


Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-07-24 15:06:30

End at: 2018-07-24 15:07:00

Local clock offset: 3.807 ms

Remote clock offset: 5.793 ms

Below is generated by plot.py at 2018-07-24 17:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.95 Mbit/s

95th percentile per-packet one-way delay: 29.996 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 20.21 Mbit/s

95th percentile per-packet one-way delay: 29.088 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 20.05 Mbit/s

95th percentile per-packet one-way delay: 29.855 ms

Loss rate: 1.11%

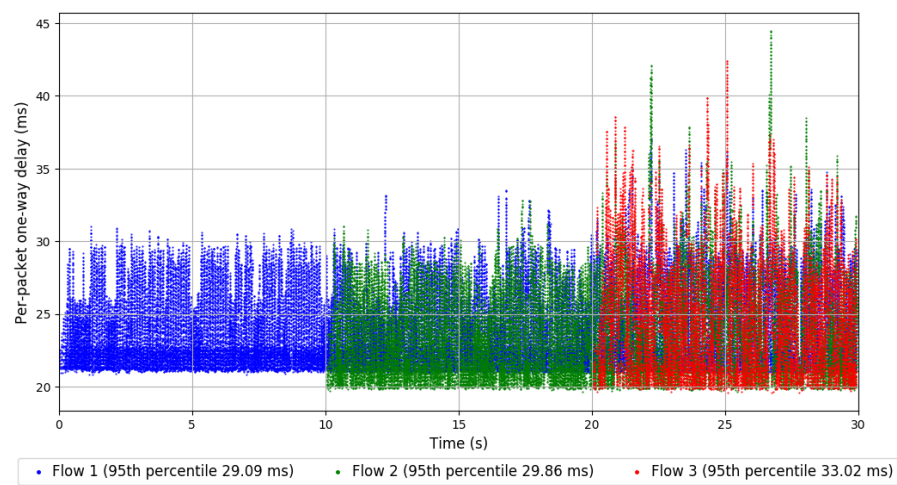
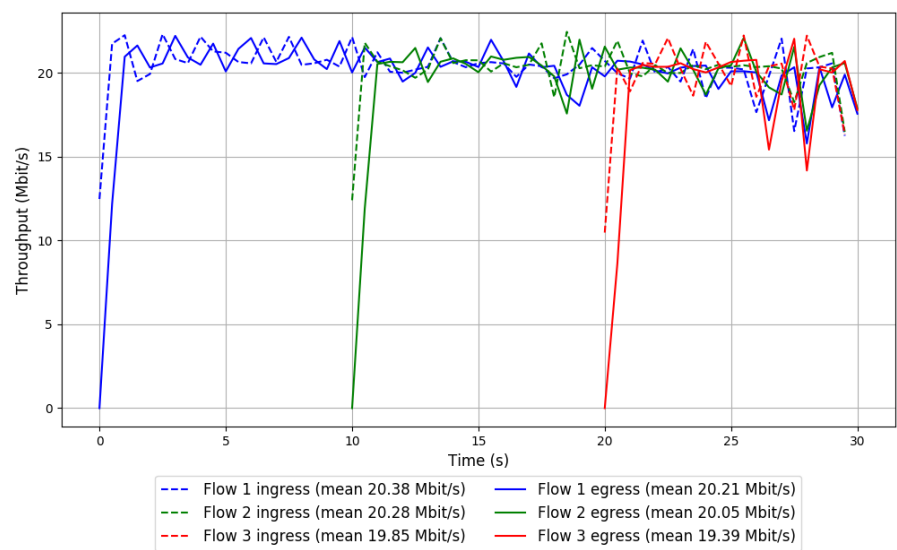
-- Flow 3:

Average throughput: 19.39 Mbit/s

95th percentile per-packet one-way delay: 33.020 ms

Loss rate: 2.30%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-24 15:26:46

End at: 2018-07-24 15:27:16

Local clock offset: 1.738 ms

Remote clock offset: 3.768 ms

Below is generated by plot.py at 2018-07-24 17:58:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.95 Mbit/s

95th percentile per-packet one-way delay: 25.597 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 19.17 Mbit/s

95th percentile per-packet one-way delay: 25.387 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 19.16 Mbit/s

95th percentile per-packet one-way delay: 25.964 ms

Loss rate: 2.19%

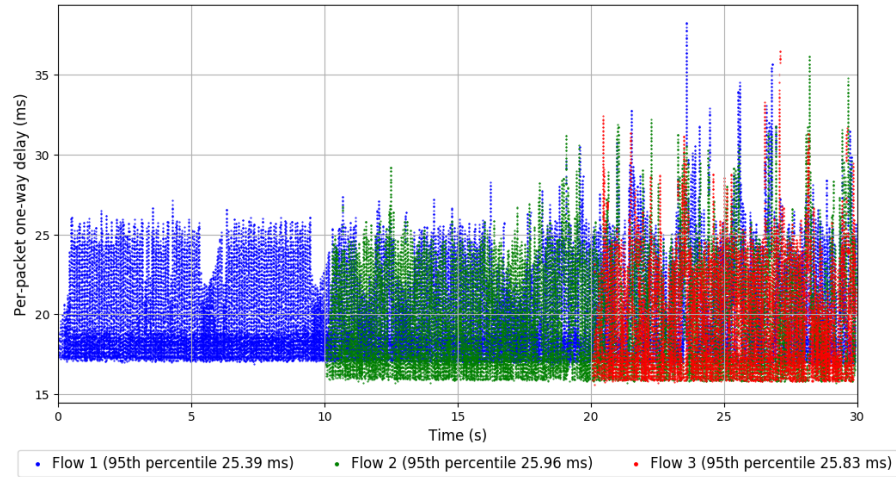
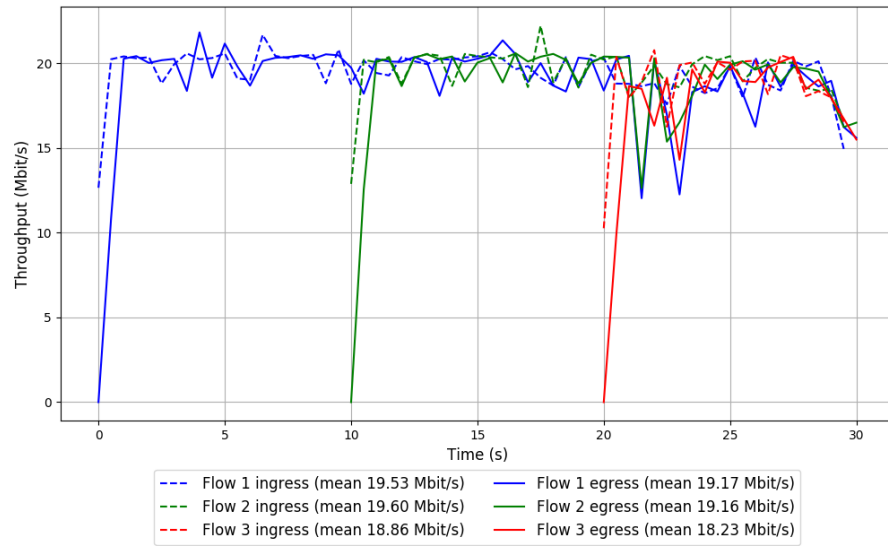
-- Flow 3:

Average throughput: 18.23 Mbit/s

95th percentile per-packet one-way delay: 25.827 ms

Loss rate: 3.33%

Run 4: Report of Sprout — Data Link

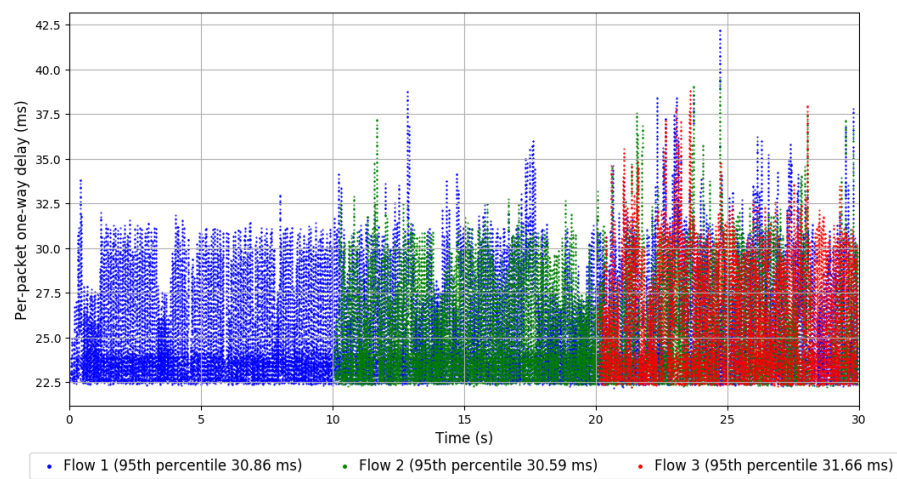
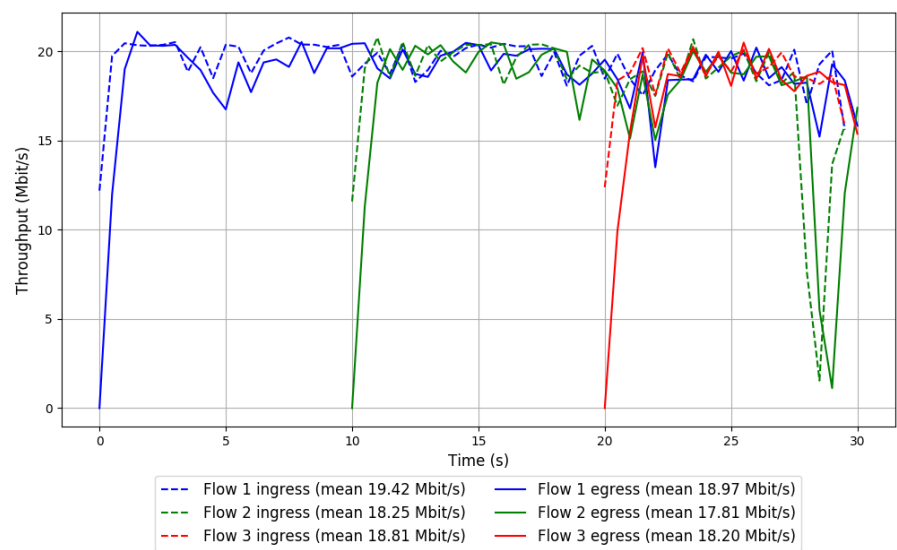


Run 5: Statistics of Sprout

Start at: 2018-07-24 15:47:07
End at: 2018-07-24 15:47:37
Local clock offset: 3.23 ms
Remote clock offset: 13.297 ms

```
# Below is generated by plot.py at 2018-07-24 17:58:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.83 Mbit/s
95th percentile per-packet one-way delay: 30.898 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 18.97 Mbit/s
95th percentile per-packet one-way delay: 30.855 ms
Loss rate: 2.31%
-- Flow 2:
Average throughput: 17.81 Mbit/s
95th percentile per-packet one-way delay: 30.585 ms
Loss rate: 2.37%
-- Flow 3:
Average throughput: 18.20 Mbit/s
95th percentile per-packet one-way delay: 31.656 ms
Loss rate: 3.20%
```

Run 5: Report of Sprout — Data Link

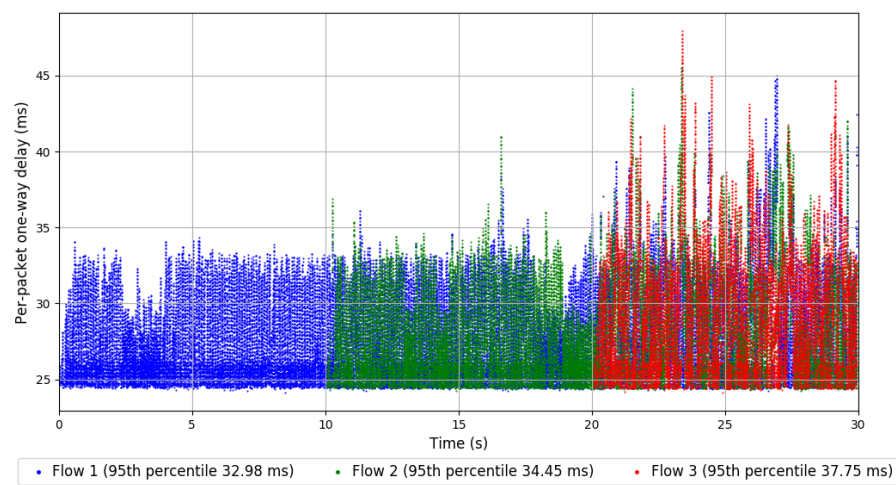
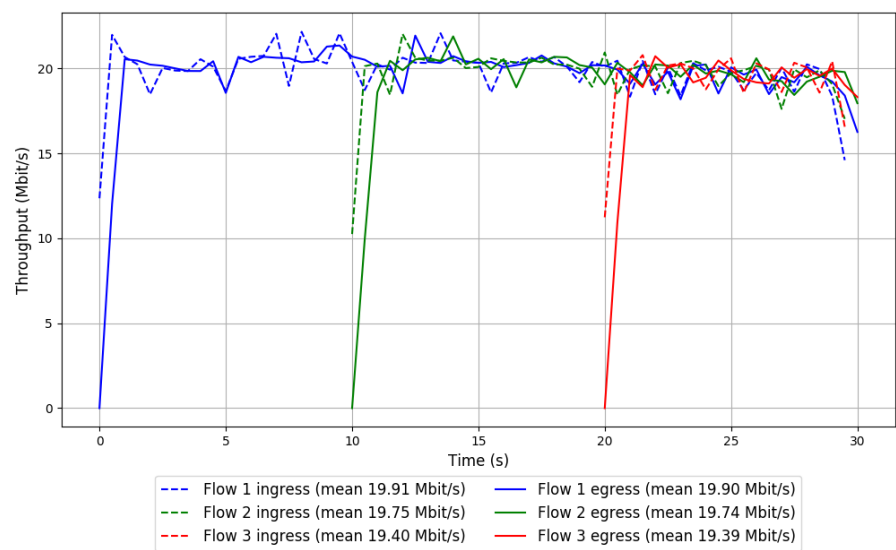


Run 6: Statistics of Sprout

Start at: 2018-07-24 16:07:18
End at: 2018-07-24 16:07:48
Local clock offset: 1.409 ms
Remote clock offset: 16.182 ms

```
# Below is generated by plot.py at 2018-07-24 17:58:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.44 Mbit/s
95th percentile per-packet one-way delay: 34.522 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 19.90 Mbit/s
95th percentile per-packet one-way delay: 32.979 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 19.74 Mbit/s
95th percentile per-packet one-way delay: 34.449 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 19.39 Mbit/s
95th percentile per-packet one-way delay: 37.753 ms
Loss rate: 0.08%
```


Run 6: Report of Sprout — Data Link

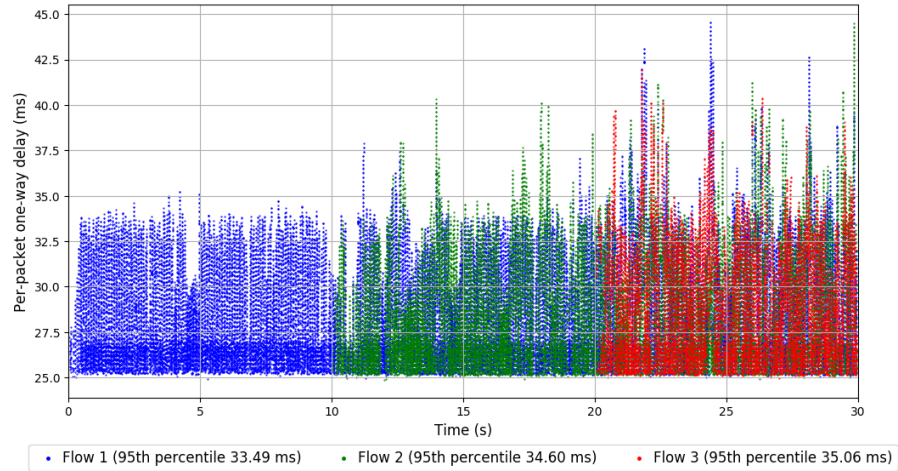
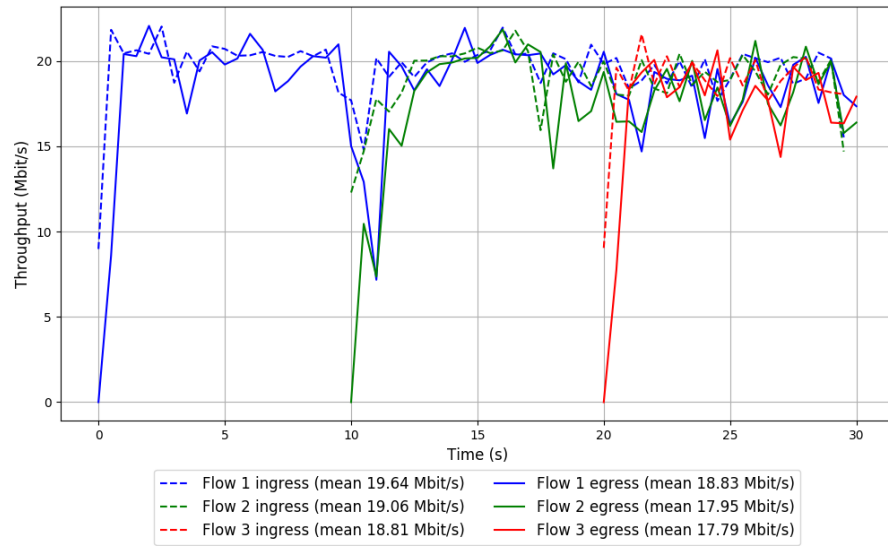


Run 7: Statistics of Sprout

Start at: 2018-07-24 16:27:20
End at: 2018-07-24 16:27:50
Local clock offset: 1.046 ms
Remote clock offset: 18.504 ms

Below is generated by plot.py at 2018-07-24 17:58:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 36.65 Mbit/s
95th percentile per-packet one-way delay: 34.061 ms
Loss rate: 4.90%
-- Flow 1:
Average throughput: 18.83 Mbit/s
95th percentile per-packet one-way delay: 33.490 ms
Loss rate: 4.14%
-- Flow 2:
Average throughput: 17.95 Mbit/s
95th percentile per-packet one-way delay: 34.597 ms
Loss rate: 5.80%
-- Flow 3:
Average throughput: 17.79 Mbit/s
95th percentile per-packet one-way delay: 35.062 ms
Loss rate: 5.44%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-24 16:47:33

End at: 2018-07-24 16:48:03

Local clock offset: -1.248 ms

Remote clock offset: -4.32 ms

Below is generated by plot.py at 2018-07-24 17:58:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.42 Mbit/s

95th percentile per-packet one-way delay: 18.396 ms

Loss rate: 5.28%

-- Flow 1:

Average throughput: 18.67 Mbit/s

95th percentile per-packet one-way delay: 18.223 ms

Loss rate: 4.69%

-- Flow 2:

Average throughput: 18.32 Mbit/s

95th percentile per-packet one-way delay: 18.275 ms

Loss rate: 5.26%

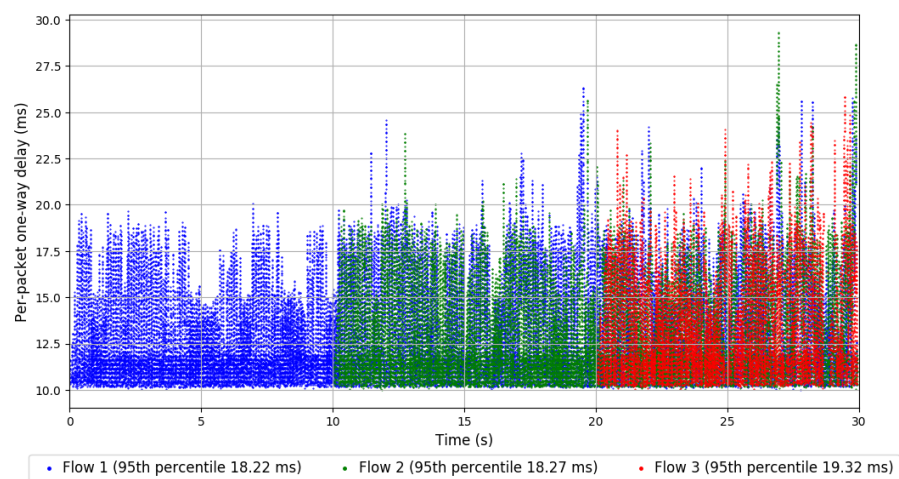
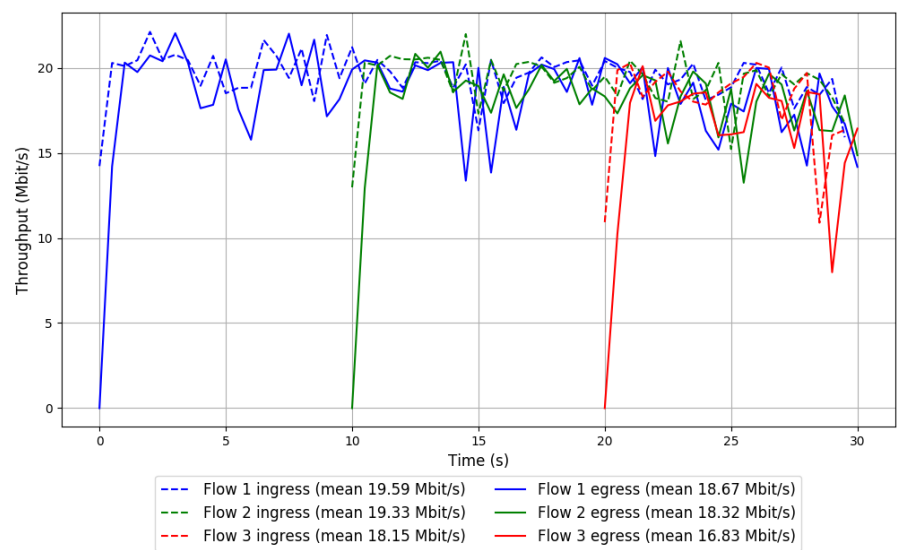
-- Flow 3:

Average throughput: 16.83 Mbit/s

95th percentile per-packet one-way delay: 19.322 ms

Loss rate: 7.25%

Run 8: Report of Sprout — Data Link

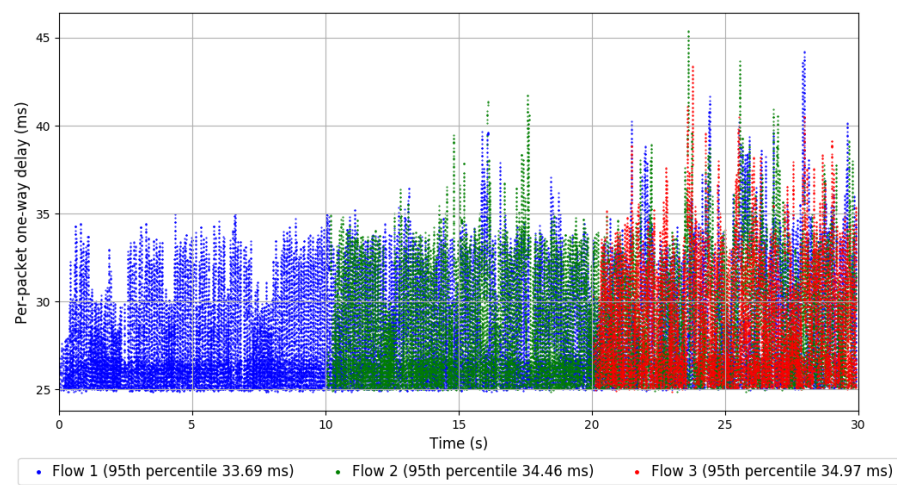
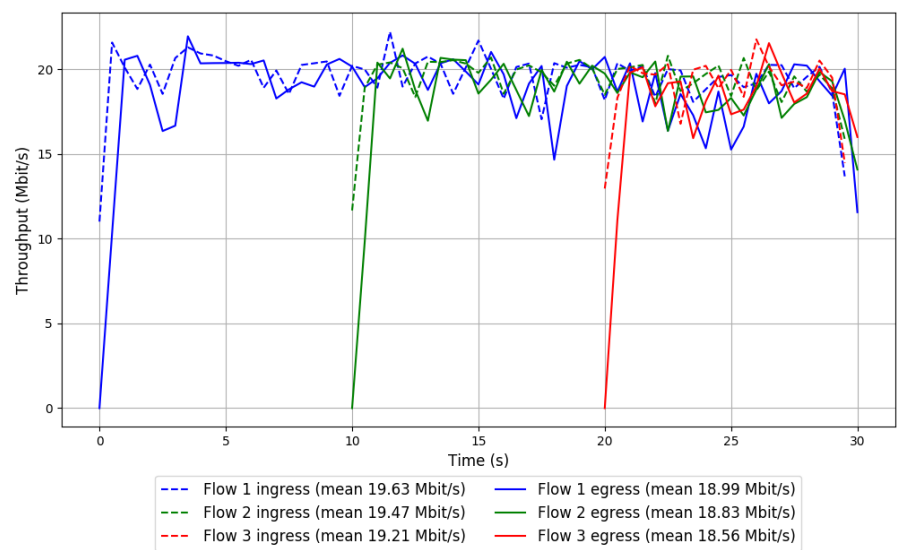


Run 9: Statistics of Sprout

Start at: 2018-07-24 17:07:27
End at: 2018-07-24 17:07:57
Local clock offset: -1.326 ms
Remote clock offset: 7.923 ms

```
# Below is generated by plot.py at 2018-07-24 17:59:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.62 Mbit/s
95th percentile per-packet one-way delay: 34.139 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 18.99 Mbit/s
95th percentile per-packet one-way delay: 33.691 ms
Loss rate: 3.26%
-- Flow 2:
Average throughput: 18.83 Mbit/s
95th percentile per-packet one-way delay: 34.456 ms
Loss rate: 3.38%
-- Flow 3:
Average throughput: 18.56 Mbit/s
95th percentile per-packet one-way delay: 34.966 ms
Loss rate: 3.41%
```

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-24 17:27:06

End at: 2018-07-24 17:27:36

Local clock offset: -1.82 ms

Remote clock offset: 1.575 ms

Below is generated by plot.py at 2018-07-24 17:59:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.42 Mbit/s

95th percentile per-packet one-way delay: 30.943 ms

Loss rate: 3.48%

-- Flow 1:

Average throughput: 19.04 Mbit/s

95th percentile per-packet one-way delay: 30.545 ms

Loss rate: 3.15%

-- Flow 2:

Average throughput: 18.58 Mbit/s

95th percentile per-packet one-way delay: 30.881 ms

Loss rate: 4.17%

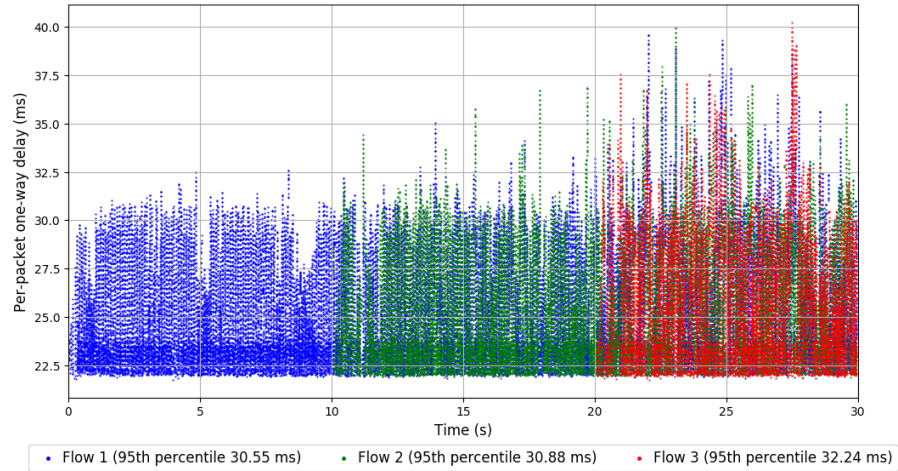
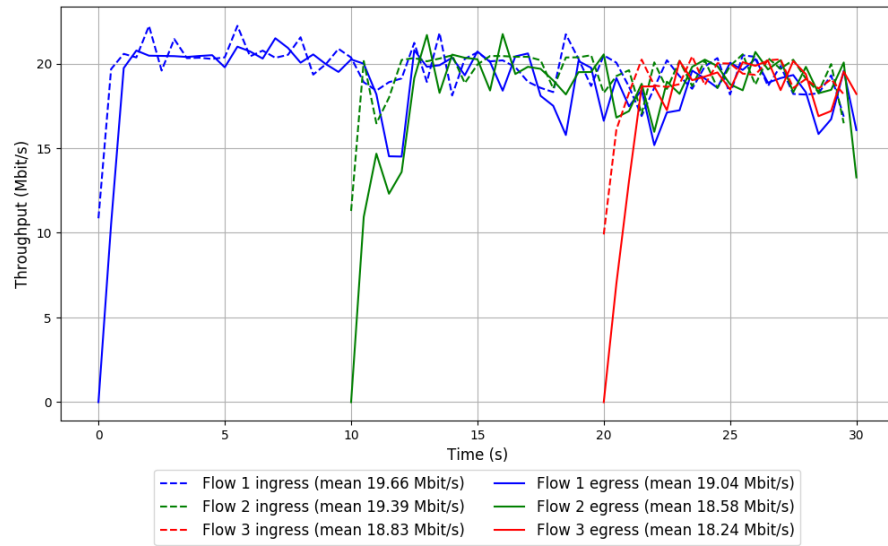
-- Flow 3:

Average throughput: 18.24 Mbit/s

95th percentile per-packet one-way delay: 32.244 ms

Loss rate: 3.10%

Run 10: Report of Sprout — Data Link

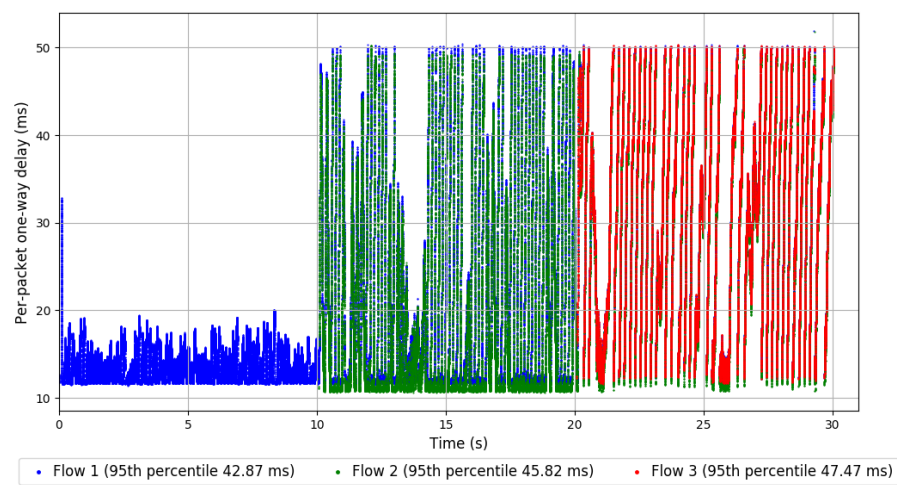
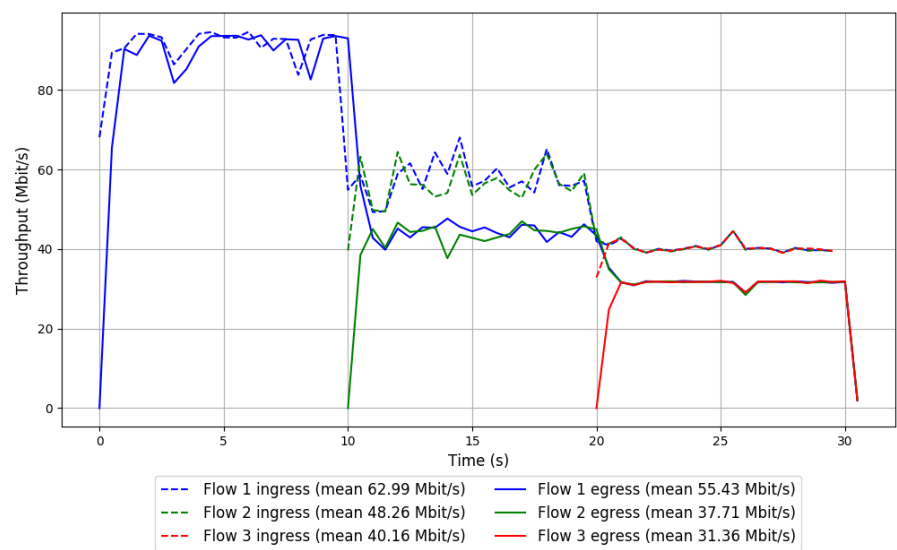


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-24 14:22:04
End at: 2018-07-24 14:22:34
Local clock offset: 2.041 ms
Remote clock offset: -6.837 ms

# Below is generated by plot.py at 2018-07-24 18:00:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 44.980 ms
Loss rate: 16.04%
-- Flow 1:
Average throughput: 55.43 Mbit/s
95th percentile per-packet one-way delay: 42.870 ms
Loss rate: 11.92%
-- Flow 2:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 45.822 ms
Loss rate: 21.75%
-- Flow 3:
Average throughput: 31.36 Mbit/s
95th percentile per-packet one-way delay: 47.473 ms
Loss rate: 21.72%
```

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

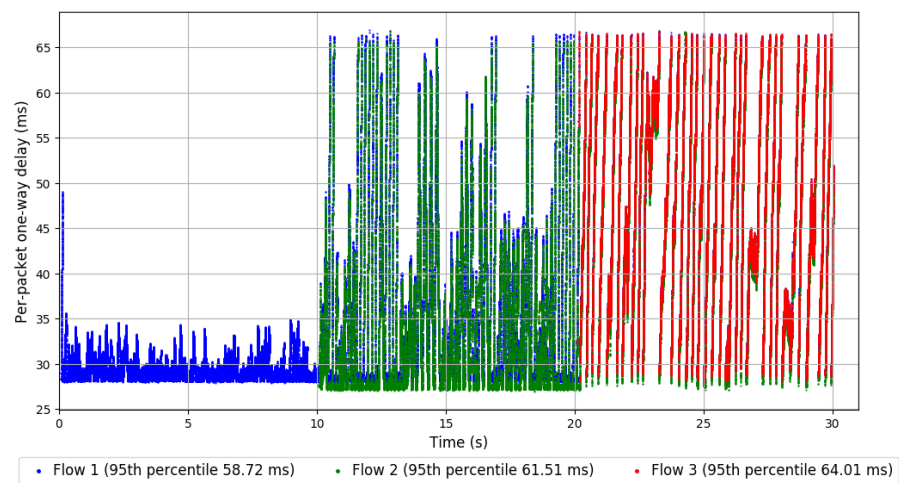
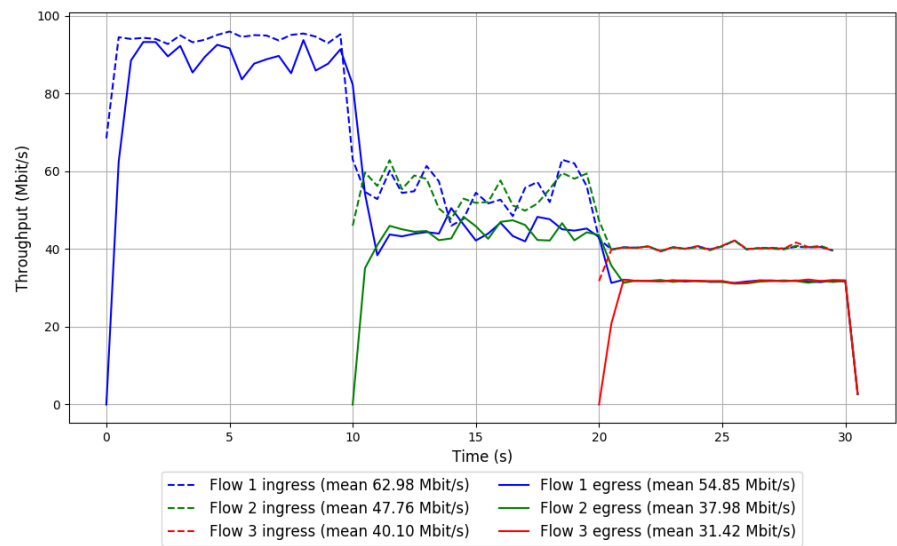


Run 2: Statistics of TaoVA-100x

Start at: 2018-07-24 14:41:51
End at: 2018-07-24 14:42:21
Local clock offset: 3.971 ms
Remote clock offset: 10.448 ms

Below is generated by plot.py at 2018-07-24 18:00:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.62 Mbit/s
95th percentile per-packet one-way delay: 61.066 ms
Loss rate: 16.13%
-- Flow 1:
Average throughput: 54.85 Mbit/s
95th percentile per-packet one-way delay: 58.719 ms
Loss rate: 12.85%
-- Flow 2:
Average throughput: 37.98 Mbit/s
95th percentile per-packet one-way delay: 61.514 ms
Loss rate: 20.39%
-- Flow 3:
Average throughput: 31.42 Mbit/s
95th percentile per-packet one-way delay: 64.014 ms
Loss rate: 21.47%

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

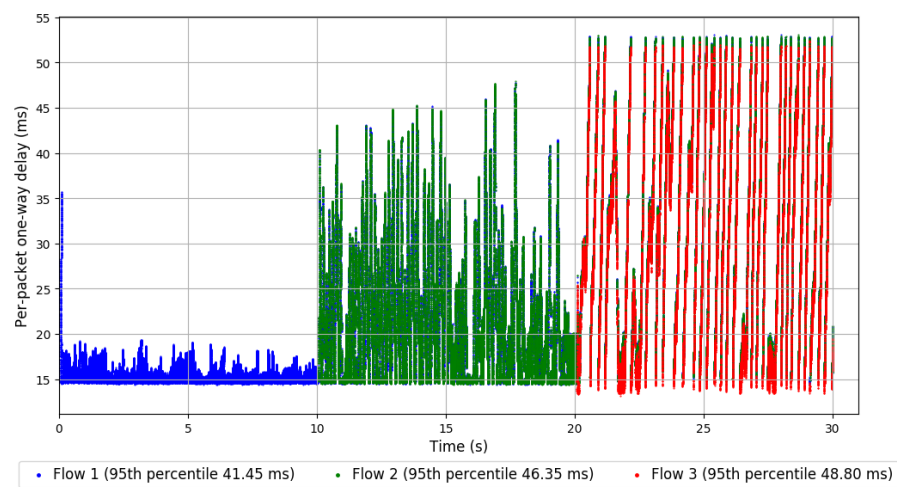
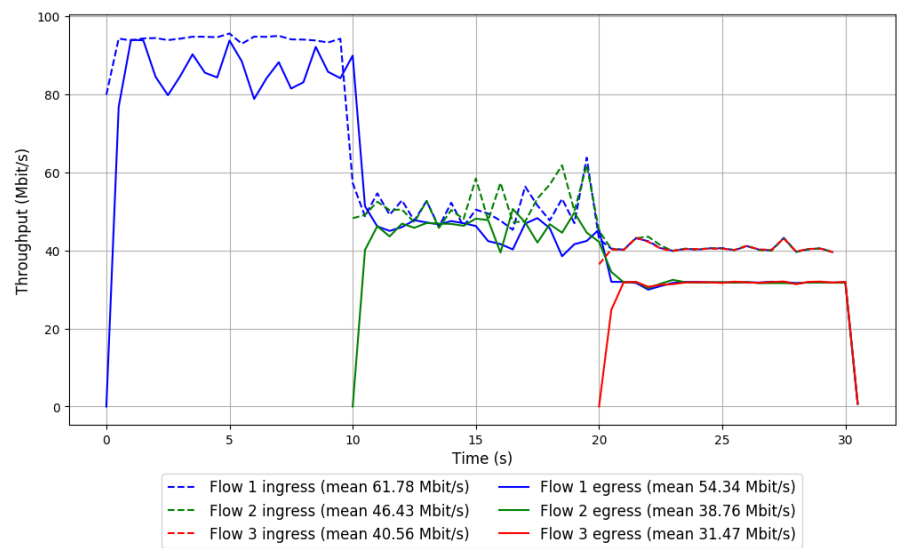


Run 3: Statistics of TaoVA-100x

Start at: 2018-07-24 15:01:42
End at: 2018-07-24 15:02:12
Local clock offset: 0.398 ms
Remote clock offset: -4.851 ms

Below is generated by plot.py at 2018-07-24 18:00:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.64 Mbit/s
95th percentile per-packet one-way delay: 45.161 ms
Loss rate: 14.64%
-- Flow 1:
Average throughput: 54.34 Mbit/s
95th percentile per-packet one-way delay: 41.447 ms
Loss rate: 12.02%
-- Flow 2:
Average throughput: 38.76 Mbit/s
95th percentile per-packet one-way delay: 46.347 ms
Loss rate: 16.50%
-- Flow 3:
Average throughput: 31.47 Mbit/s
95th percentile per-packet one-way delay: 48.805 ms
Loss rate: 22.37%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-24 15:21:59

End at: 2018-07-24 15:22:29

Local clock offset: -1.217 ms

Remote clock offset: 4.14 ms

Below is generated by plot.py at 2018-07-24 18:00:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.38 Mbit/s

95th percentile per-packet one-way delay: 55.253 ms

Loss rate: 14.97%

-- Flow 1:

Average throughput: 54.20 Mbit/s

95th percentile per-packet one-way delay: 52.117 ms

Loss rate: 12.70%

-- Flow 2:

Average throughput: 38.55 Mbit/s

95th percentile per-packet one-way delay: 56.233 ms

Loss rate: 16.72%

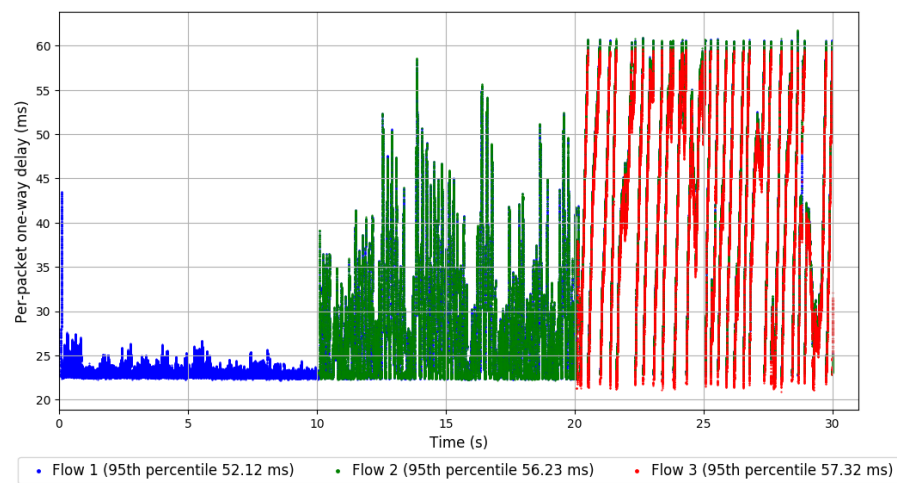
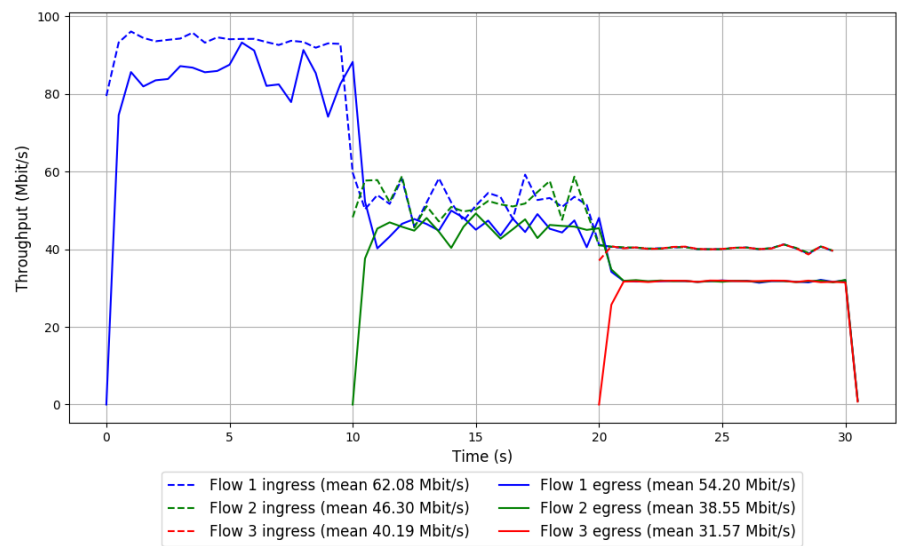
-- Flow 3:

Average throughput: 31.57 Mbit/s

95th percentile per-packet one-way delay: 57.324 ms

Loss rate: 21.46%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-24 15:42:17

End at: 2018-07-24 15:42:47

Local clock offset: 0.045 ms

Remote clock offset: 7.667 ms

Below is generated by plot.py at 2018-07-24 18:01:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.23 Mbit/s

95th percentile per-packet one-way delay: 52.240 ms

Loss rate: 14.87%

-- Flow 1:

Average throughput: 54.18 Mbit/s

95th percentile per-packet one-way delay: 47.888 ms

Loss rate: 12.65%

-- Flow 2:

Average throughput: 38.40 Mbit/s

95th percentile per-packet one-way delay: 53.378 ms

Loss rate: 16.42%

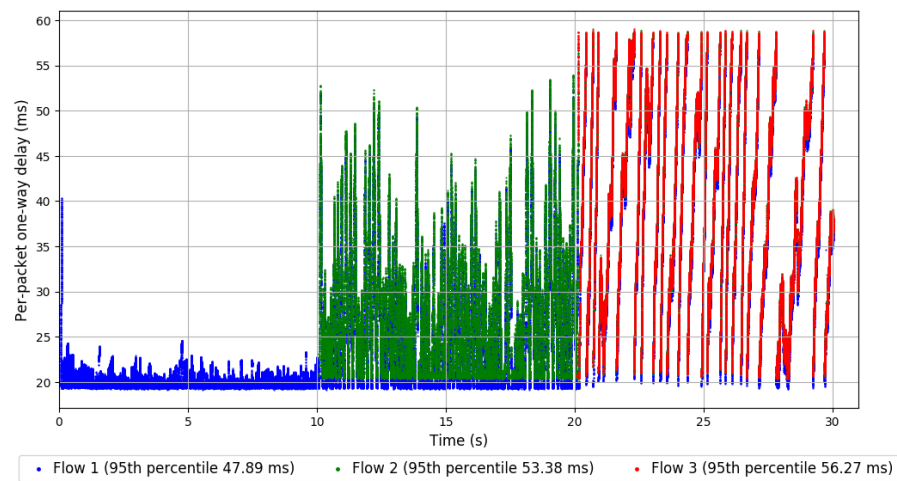
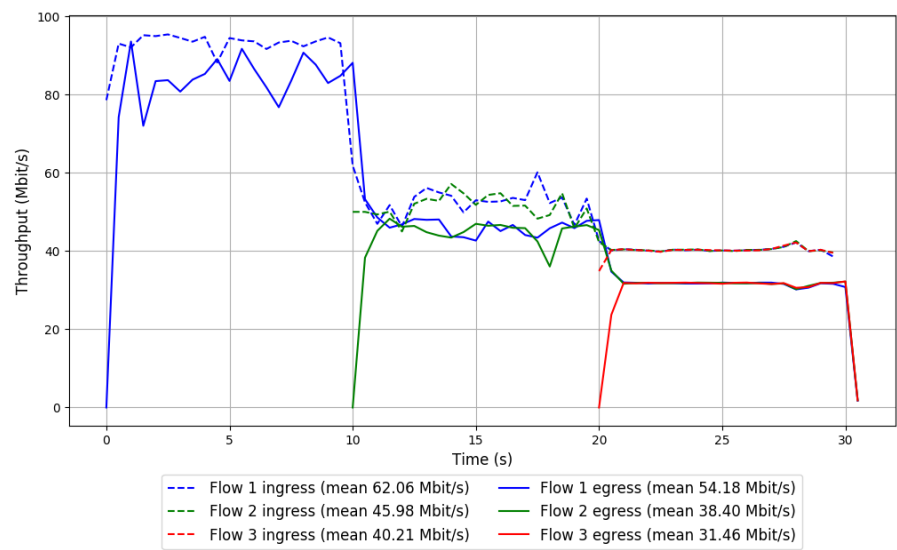
-- Flow 3:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 56.273 ms

Loss rate: 21.63%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-24 16:02:32

End at: 2018-07-24 16:03:02

Local clock offset: 2.137 ms

Remote clock offset: 16.42 ms

Below is generated by plot.py at 2018-07-24 18:01:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.54 Mbit/s

95th percentile per-packet one-way delay: 57.636 ms

Loss rate: 11.76%

-- Flow 1:

Average throughput: 54.90 Mbit/s

95th percentile per-packet one-way delay: 54.740 ms

Loss rate: 9.56%

-- Flow 2:

Average throughput: 39.12 Mbit/s

95th percentile per-packet one-way delay: 57.615 ms

Loss rate: 12.52%

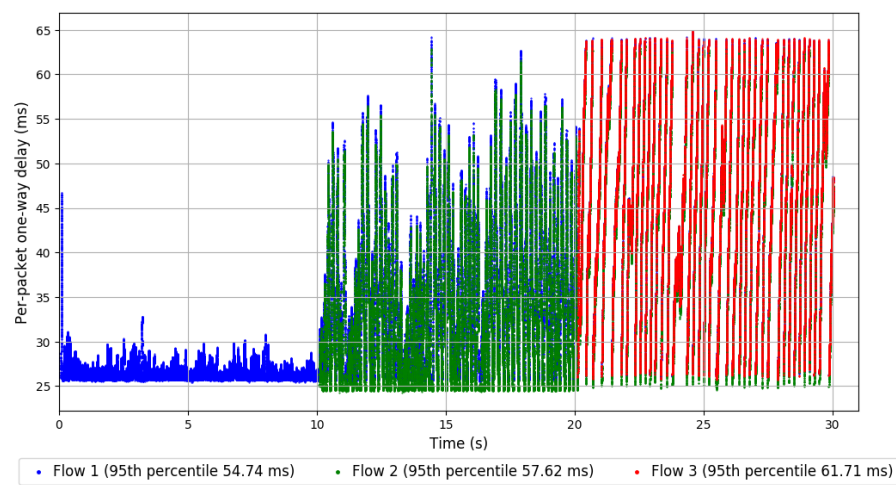
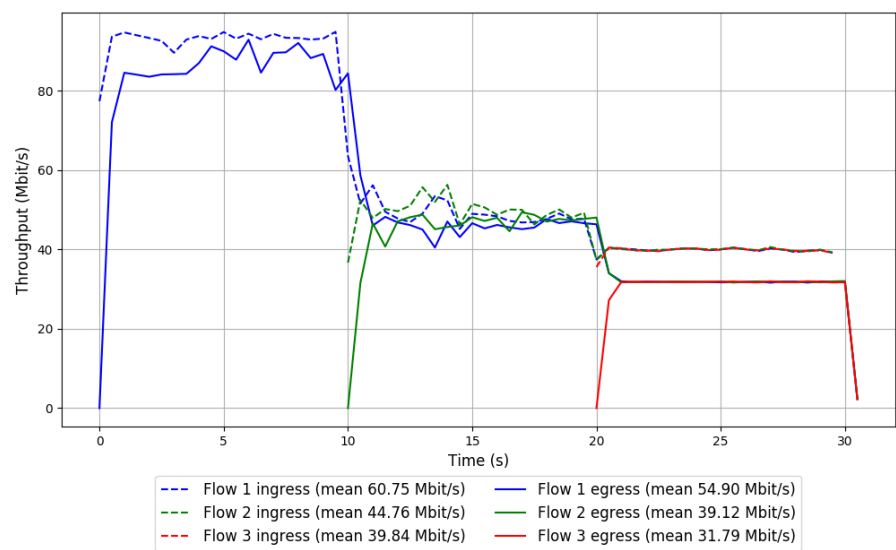
-- Flow 3:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 61.709 ms

Loss rate: 20.16%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-24 16:22:35

End at: 2018-07-24 16:23:05

Local clock offset: 2.417 ms

Remote clock offset: 18.59 ms

Below is generated by plot.py at 2018-07-24 18:01:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.80 Mbit/s

95th percentile per-packet one-way delay: 50.767 ms

Loss rate: 11.25%

-- Flow 1:

Average throughput: 57.28 Mbit/s

95th percentile per-packet one-way delay: 47.637 ms

Loss rate: 9.84%

-- Flow 2:

Average throughput: 31.37 Mbit/s

95th percentile per-packet one-way delay: 53.514 ms

Loss rate: 11.82%

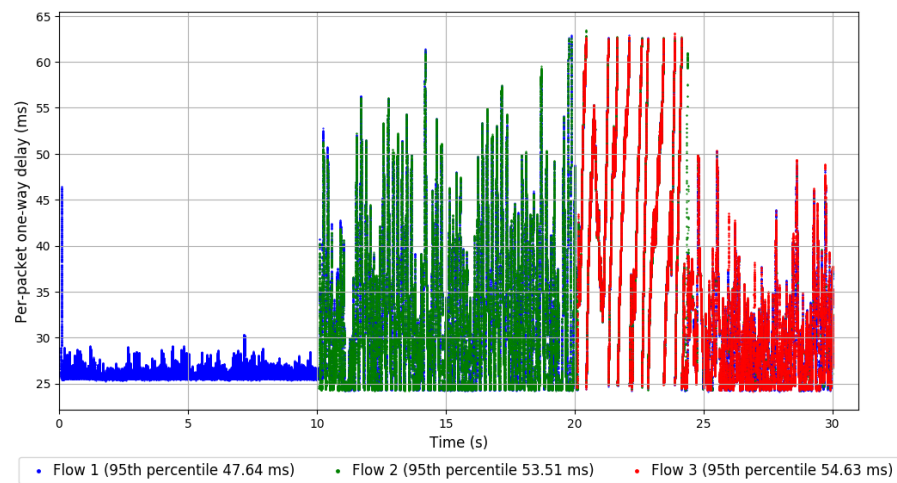
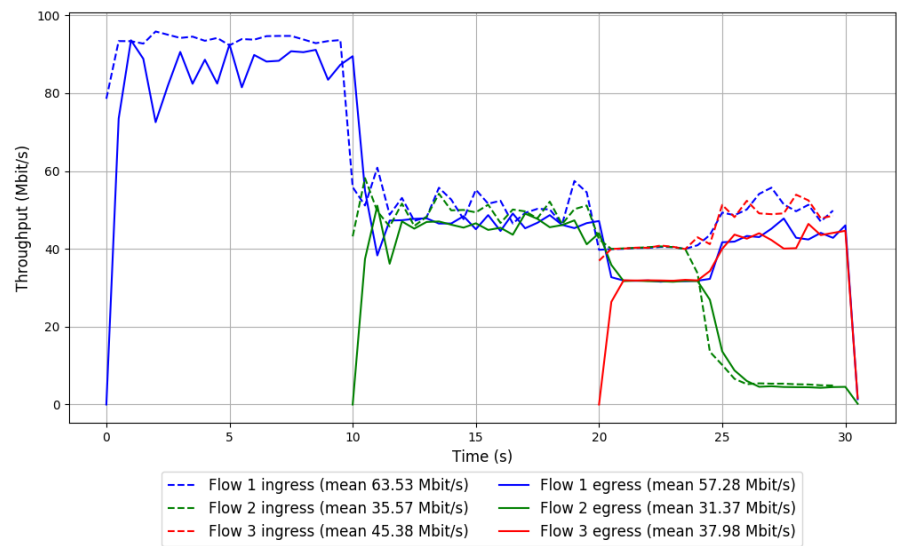
-- Flow 3:

Average throughput: 37.98 Mbit/s

95th percentile per-packet one-way delay: 54.631 ms

Loss rate: 16.33%

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

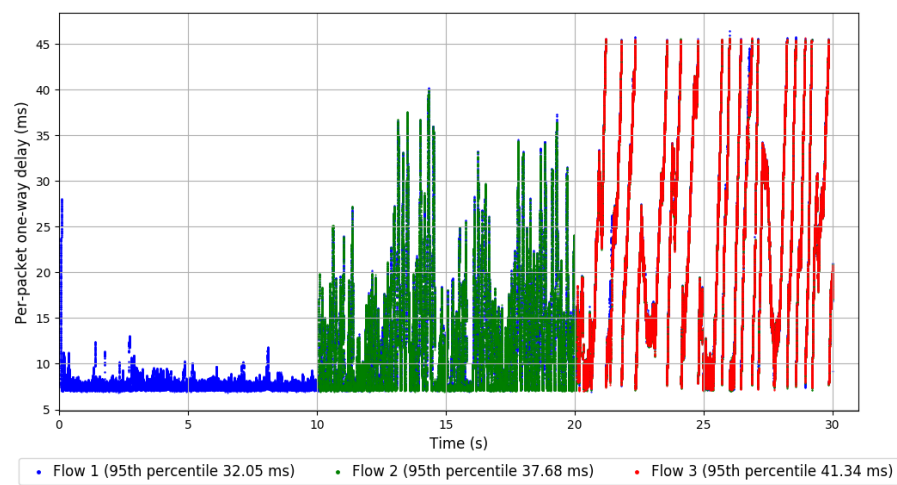
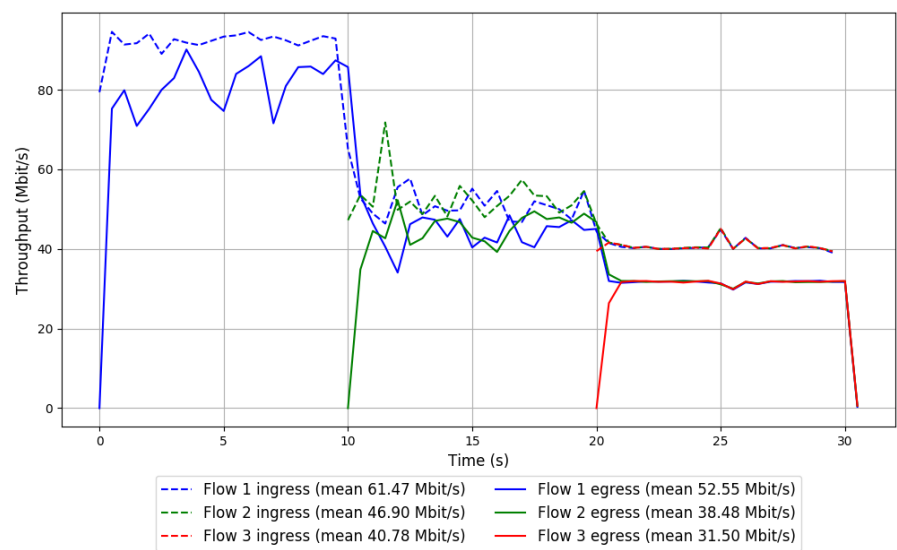


Run 8: Statistics of TaoVA-100x

Start at: 2018-07-24 16:42:38
End at: 2018-07-24 16:43:08
Local clock offset: 1.579 ms
Remote clock offset: -3.998 ms

Below is generated by plot.py at 2018-07-24 18:01:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.67 Mbit/s
95th percentile per-packet one-way delay: 36.599 ms
Loss rate: 16.55%
-- Flow 1:
Average throughput: 52.55 Mbit/s
95th percentile per-packet one-way delay: 32.054 ms
Loss rate: 14.51%
-- Flow 2:
Average throughput: 38.48 Mbit/s
95th percentile per-packet one-way delay: 37.678 ms
Loss rate: 17.91%
-- Flow 3:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 41.337 ms
Loss rate: 22.69%

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

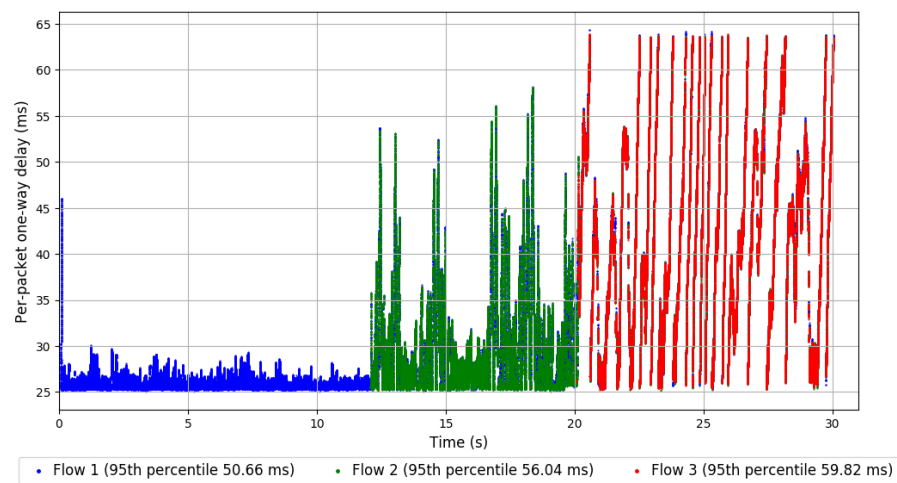
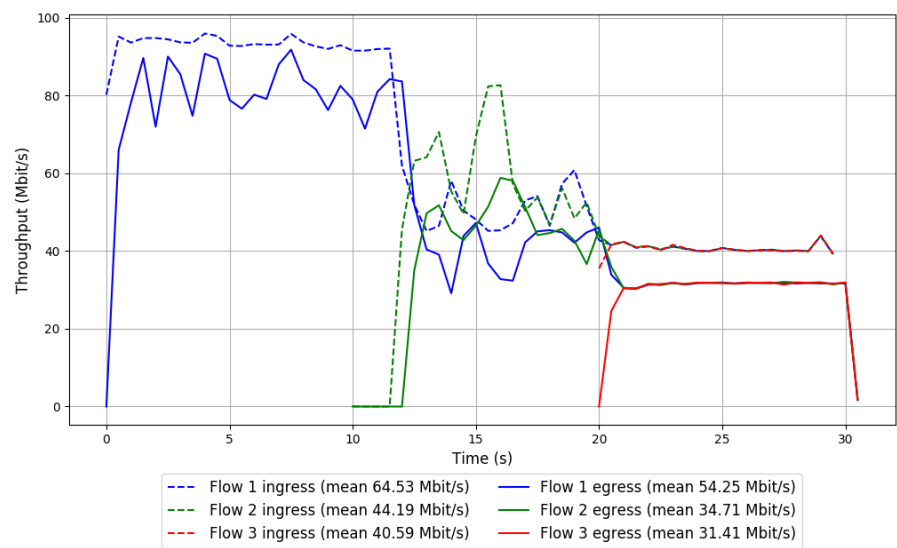


Run 9: Statistics of TaoVA-100x

Start at: 2018-07-24 17:02:43
End at: 2018-07-24 17:03:13
Local clock offset: -0.927 ms
Remote clock offset: 10.109 ms

Below is generated by plot.py at 2018-07-24 18:02:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.82 Mbit/s
95th percentile per-packet one-way delay: 54.170 ms
Loss rate: 18.25%
-- Flow 1:
Average throughput: 54.25 Mbit/s
95th percentile per-packet one-way delay: 50.656 ms
Loss rate: 15.91%
-- Flow 2:
Average throughput: 34.71 Mbit/s
95th percentile per-packet one-way delay: 56.041 ms
Loss rate: 21.41%
-- Flow 3:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 59.824 ms
Loss rate: 22.56%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-24 17:22:26

End at: 2018-07-24 17:22:56

Local clock offset: 2.294 ms

Remote clock offset: 6.489 ms

Below is generated by plot.py at 2018-07-24 18:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.19 Mbit/s

95th percentile per-packet one-way delay: 52.917 ms

Loss rate: 16.72%

-- Flow 1:

Average throughput: 52.99 Mbit/s

95th percentile per-packet one-way delay: 47.813 ms

Loss rate: 14.42%

-- Flow 2:

Average throughput: 38.50 Mbit/s

95th percentile per-packet one-way delay: 53.770 ms

Loss rate: 19.13%

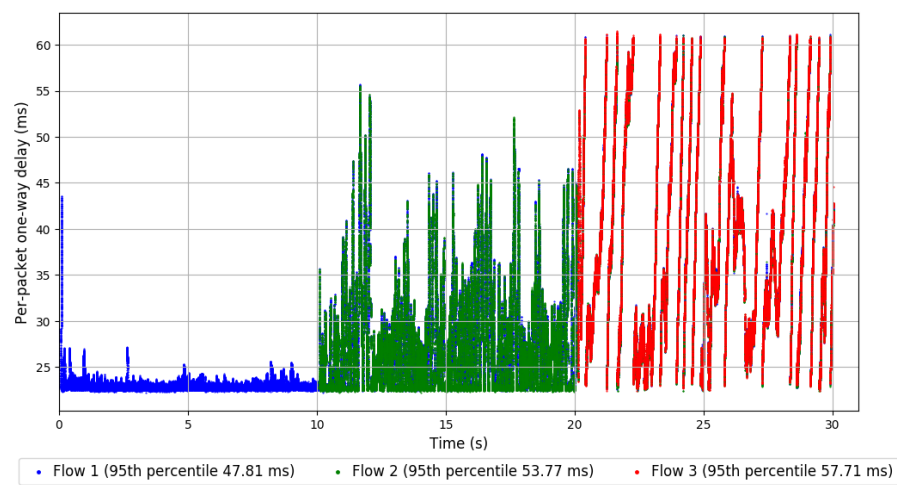
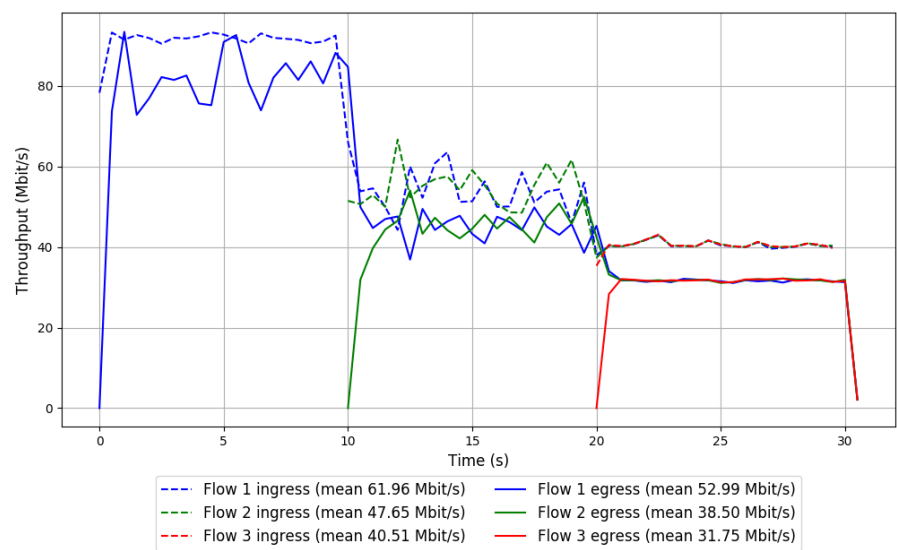
-- Flow 3:

Average throughput: 31.75 Mbit/s

95th percentile per-packet one-way delay: 57.713 ms

Loss rate: 21.62%

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

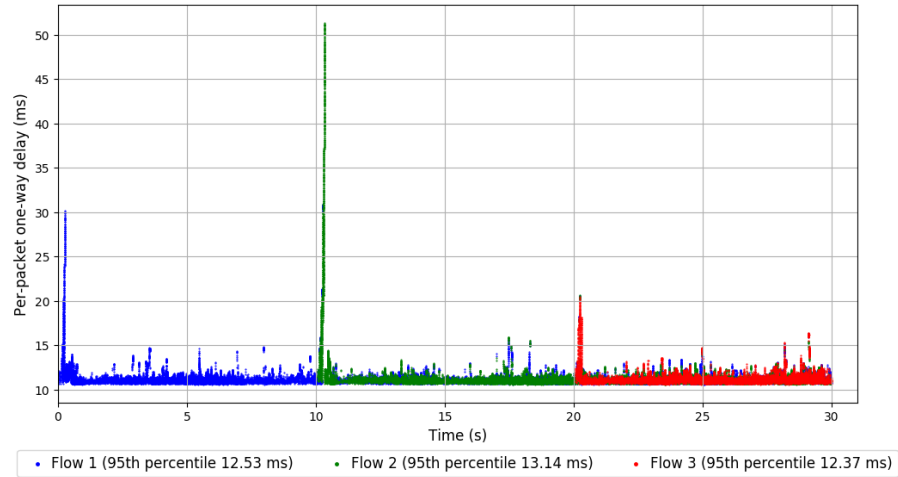
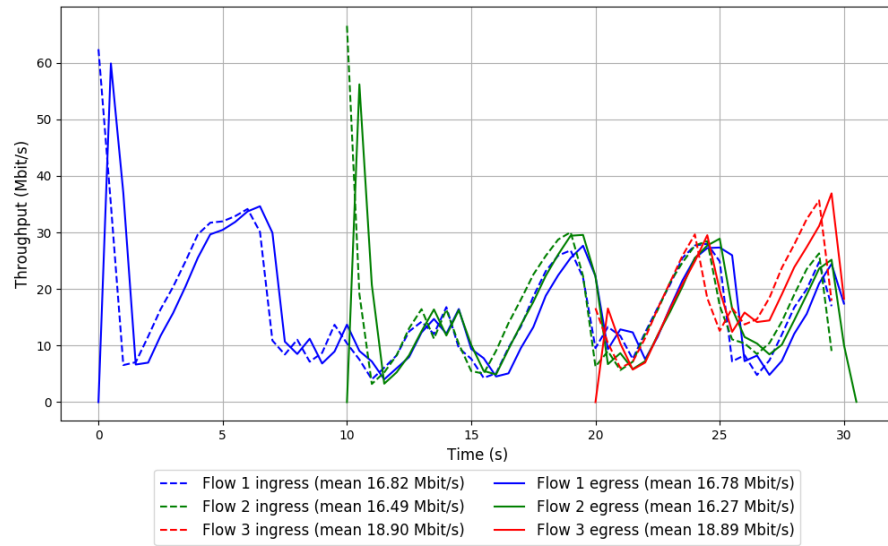


Run 1: Statistics of TCP Vegas

Start at: 2018-07-24 14:31:22
End at: 2018-07-24 14:31:52
Local clock offset: 3.237 ms
Remote clock offset: -7.306 ms

Below is generated by plot.py at 2018-07-24 18:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.89 Mbit/s
95th percentile per-packet one-way delay: 12.644 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 16.78 Mbit/s
95th percentile per-packet one-way delay: 12.529 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 16.27 Mbit/s
95th percentile per-packet one-way delay: 13.141 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 18.89 Mbit/s
95th percentile per-packet one-way delay: 12.366 ms
Loss rate: 0.08%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-24 14:51:09

End at: 2018-07-24 14:51:39

Local clock offset: -1.525 ms

Remote clock offset: 4.426 ms

Below is generated by plot.py at 2018-07-24 18:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.88 Mbit/s

95th percentile per-packet one-way delay: 28.558 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 27.130 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 31.417 ms

Loss rate: 1.98%

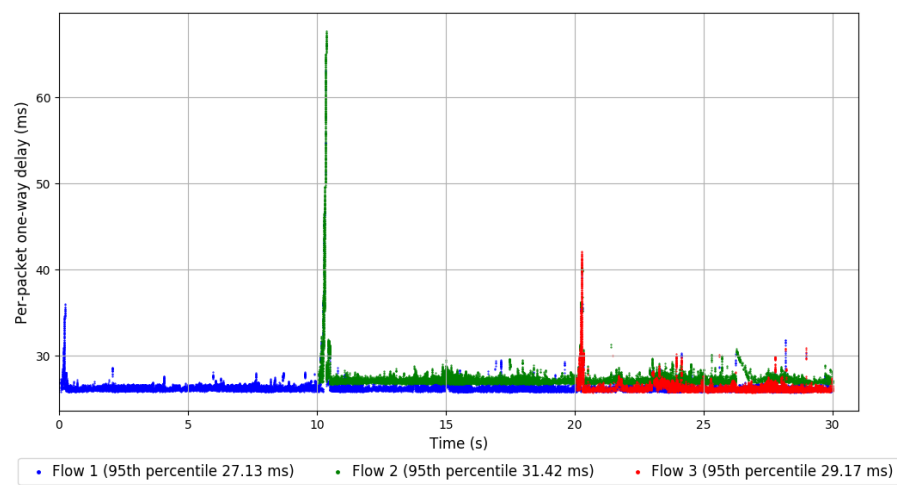
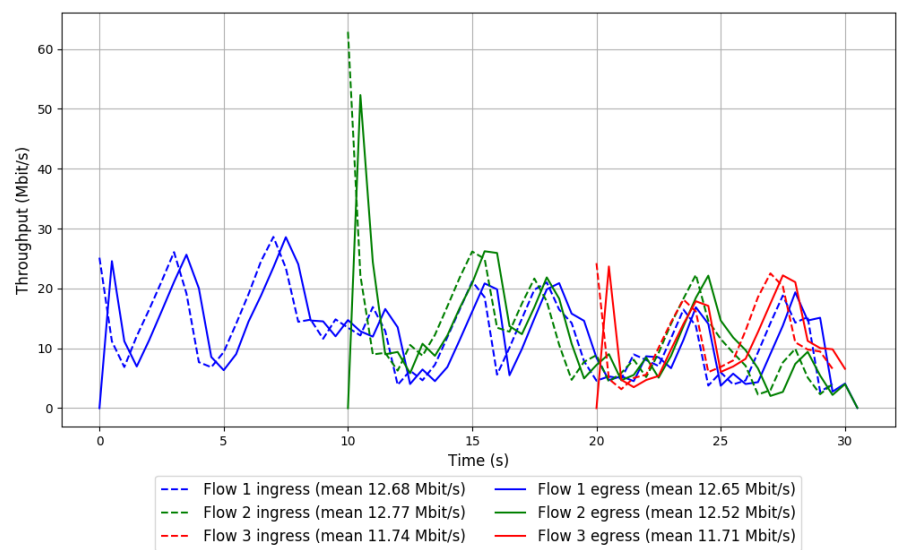
-- Flow 3:

Average throughput: 11.71 Mbit/s

95th percentile per-packet one-way delay: 29.172 ms

Loss rate: 0.26%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-24 15:11:04

End at: 2018-07-24 15:11:34

Local clock offset: -0.412 ms

Remote clock offset: 1.931 ms

Below is generated by plot.py at 2018-07-24 18:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.67 Mbit/s

95th percentile per-packet one-way delay: 32.829 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 18.04 Mbit/s

95th percentile per-packet one-way delay: 32.851 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 13.93 Mbit/s

95th percentile per-packet one-way delay: 26.915 ms

Loss rate: 0.30%

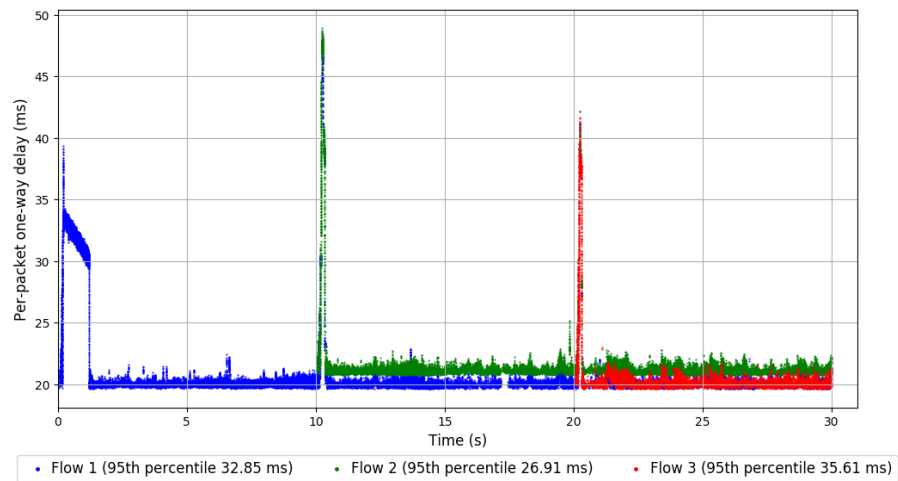
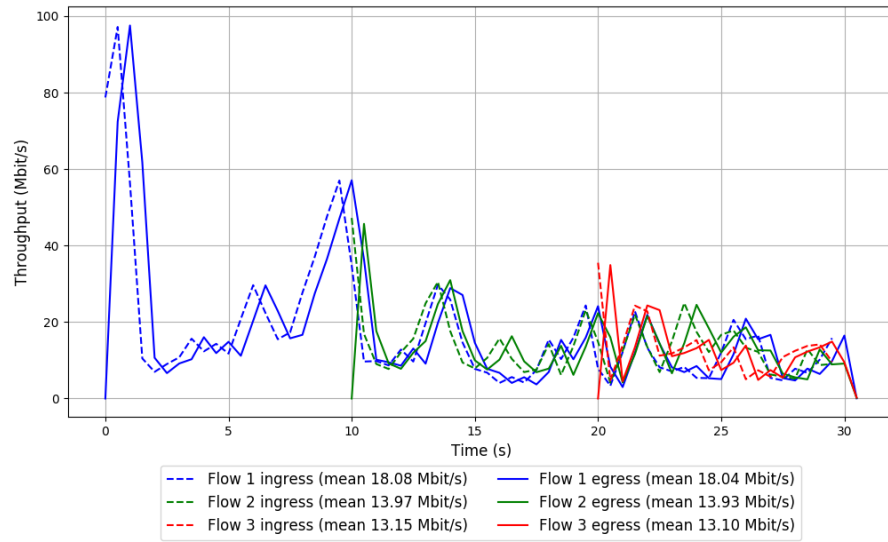
-- Flow 3:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 35.609 ms

Loss rate: 0.39%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-24 15:31:19

End at: 2018-07-24 15:31:49

Local clock offset: 1.323 ms

Remote clock offset: 9.906 ms

Below is generated by plot.py at 2018-07-24 18:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.59 Mbit/s

95th percentile per-packet one-way delay: 31.620 ms

Loss rate: 2.63%

-- Flow 1:

Average throughput: 8.45 Mbit/s

95th percentile per-packet one-way delay: 31.480 ms

Loss rate: 3.11%

-- Flow 2:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 25.534 ms

Loss rate: 1.82%

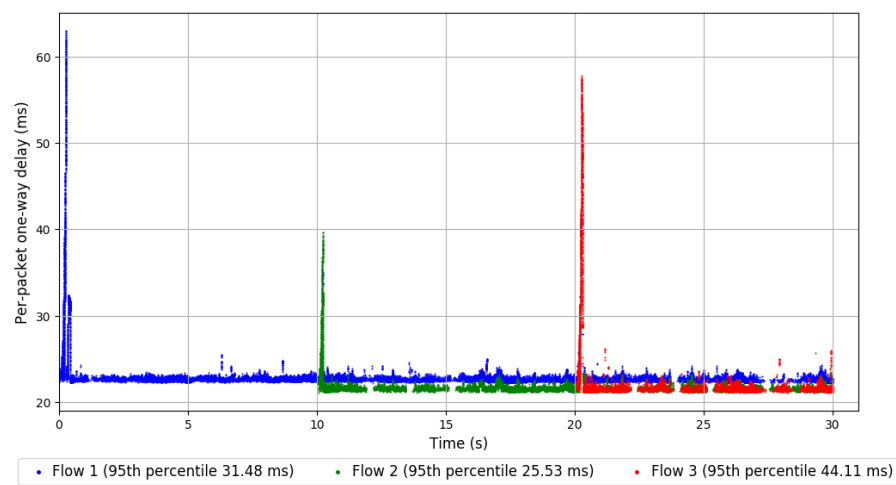
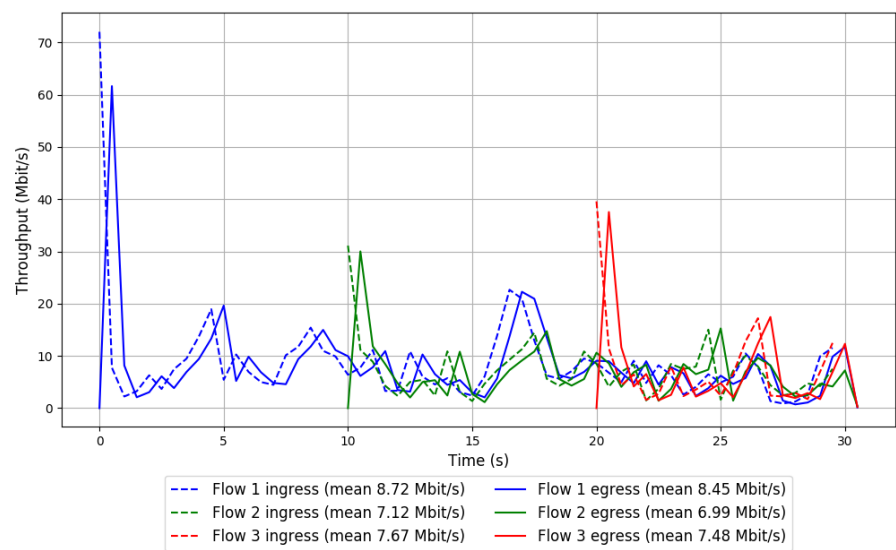
-- Flow 3:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 44.108 ms

Loss rate: 2.51%

Run 4: Report of TCP Vegas — Data Link

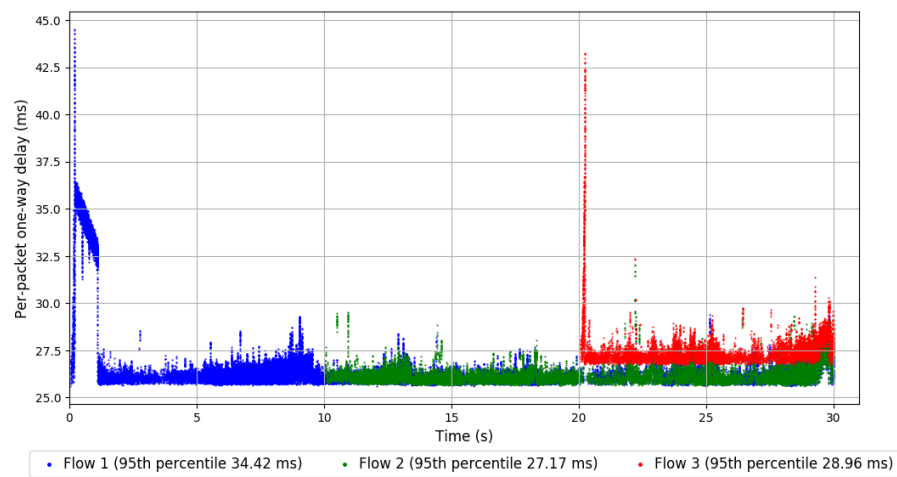
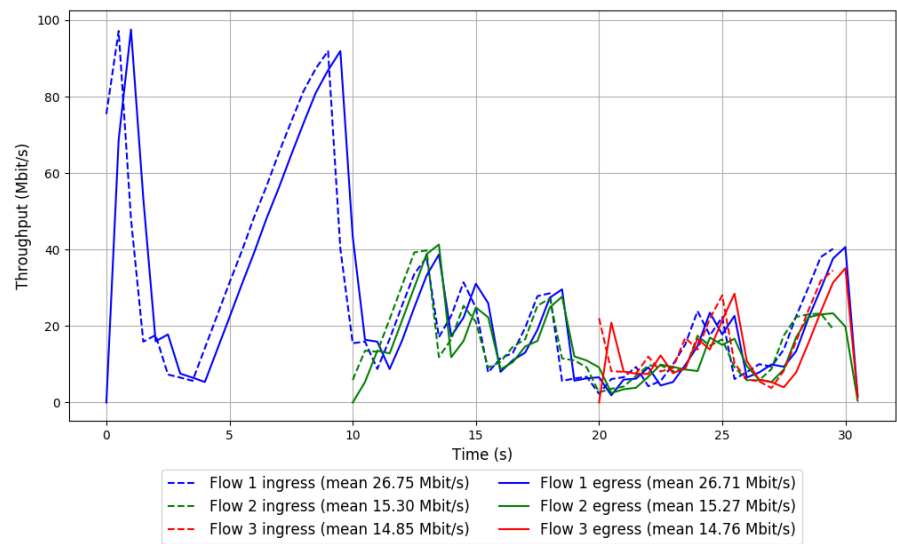


Run 5: Statistics of TCP Vegas

Start at: 2018-07-24 15:51:46
End at: 2018-07-24 15:52:16
Local clock offset: 0.271 ms
Remote clock offset: 15.227 ms

```
# Below is generated by plot.py at 2018-07-24 18:03:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.79 Mbit/s
95th percentile per-packet one-way delay: 33.692 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 26.71 Mbit/s
95th percentile per-packet one-way delay: 34.425 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 15.27 Mbit/s
95th percentile per-packet one-way delay: 27.166 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 14.76 Mbit/s
95th percentile per-packet one-way delay: 28.956 ms
Loss rate: 0.56%
```

Run 5: Report of TCP Vegas — Data Link

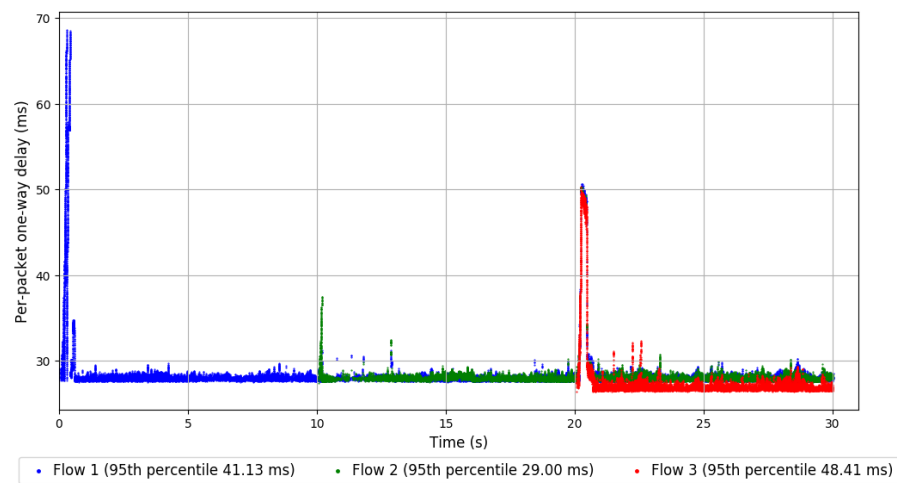
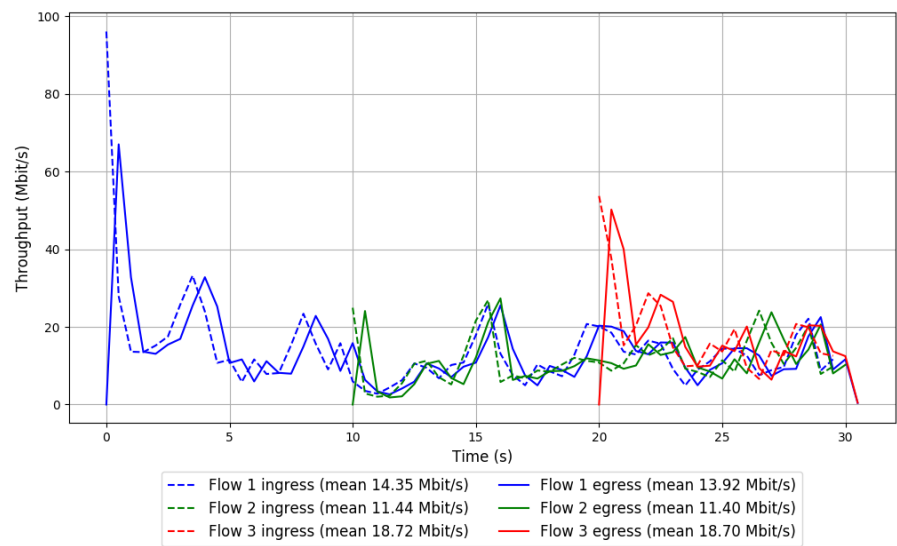


Run 6: Statistics of TCP Vegas

Start at: 2018-07-24 16:11:54
End at: 2018-07-24 16:12:24
Local clock offset: -0.307 ms
Remote clock offset: 17.025 ms

Below is generated by plot.py at 2018-07-24 18:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.74 Mbit/s
95th percentile per-packet one-way delay: 39.632 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 13.92 Mbit/s
95th percentile per-packet one-way delay: 41.134 ms
Loss rate: 2.96%
-- Flow 2:
Average throughput: 11.40 Mbit/s
95th percentile per-packet one-way delay: 29.003 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 18.70 Mbit/s
95th percentile per-packet one-way delay: 48.415 ms
Loss rate: 0.13%

Run 6: Report of TCP Vegas — Data Link

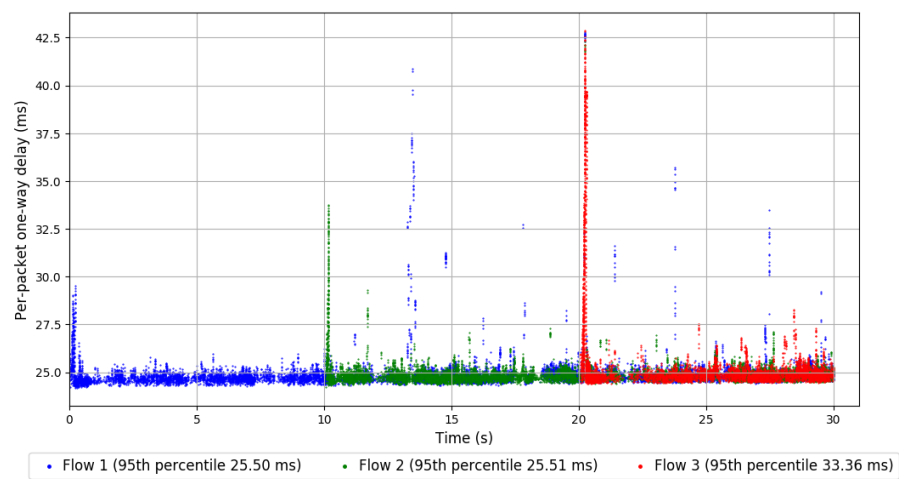
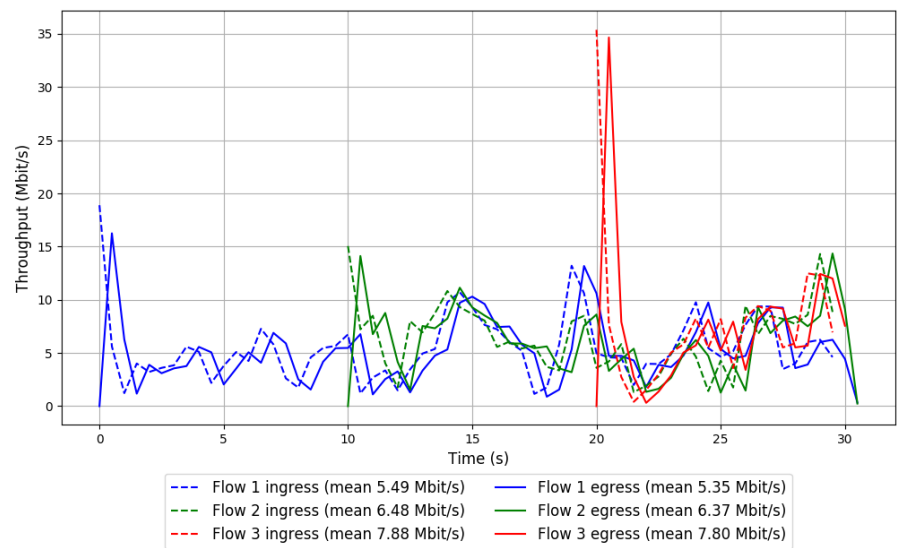


Run 7: Statistics of TCP Vegas

Start at: 2018-07-24 16:31:51
End at: 2018-07-24 16:32:21
Local clock offset: 0.014 ms
Remote clock offset: 14.892 ms

Below is generated by plot.py at 2018-07-24 18:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.18 Mbit/s
95th percentile per-packet one-way delay: 26.038 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 25.499 ms
Loss rate: 2.57%
-- Flow 2:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 25.509 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 33.359 ms
Loss rate: 1.03%

Run 7: Report of TCP Vegas — Data Link

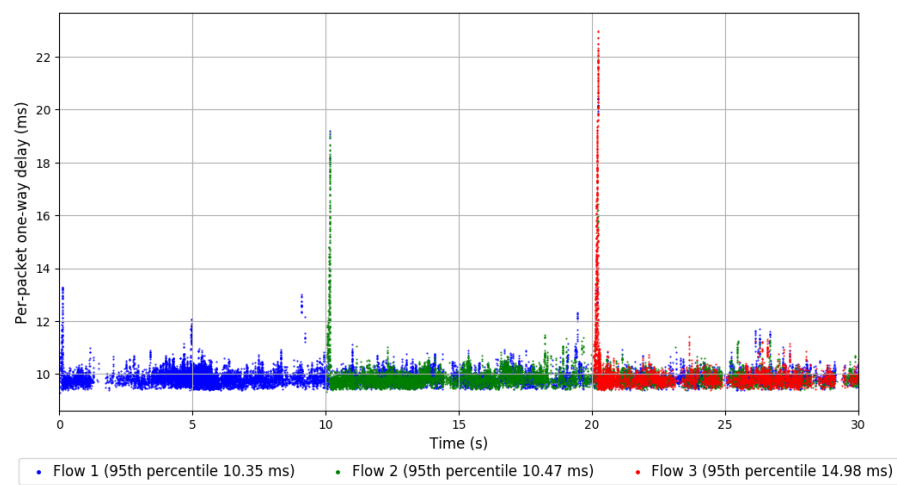
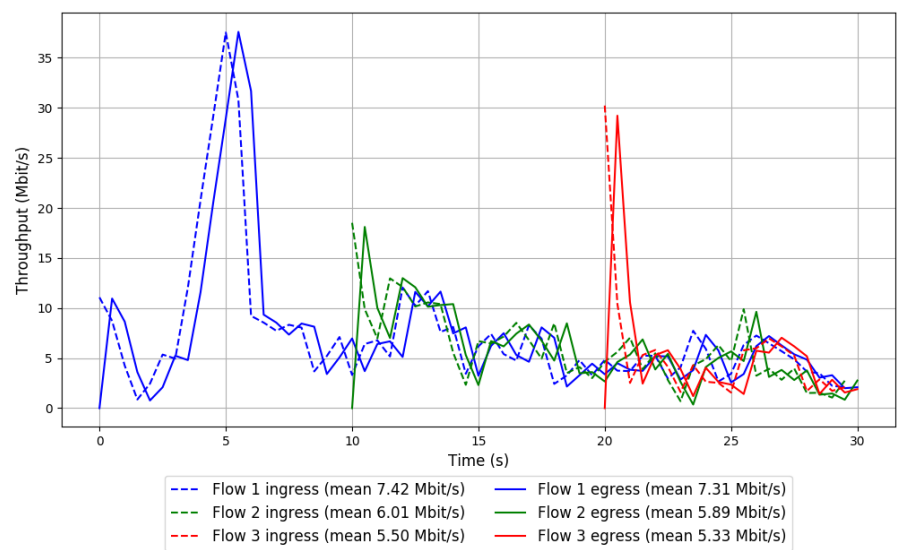


Run 8: Statistics of TCP Vegas

Start at: 2018-07-24 16:52:10
End at: 2018-07-24 16:52:40
Local clock offset: -0.934 ms
Remote clock offset: -5.125 ms

Below is generated by plot.py at 2018-07-24 18:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.00 Mbit/s
95th percentile per-packet one-way delay: 10.502 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 10.353 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 10.475 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 5.33 Mbit/s
95th percentile per-packet one-way delay: 14.980 ms
Loss rate: 3.07%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-24 17:12:01

End at: 2018-07-24 17:12:31

Local clock offset: -0.852 ms

Remote clock offset: 9.061 ms

Below is generated by plot.py at 2018-07-24 18:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.24 Mbit/s

95th percentile per-packet one-way delay: 28.085 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 12.85 Mbit/s

95th percentile per-packet one-way delay: 28.875 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 12.79 Mbit/s

95th percentile per-packet one-way delay: 27.932 ms

Loss rate: 0.55%

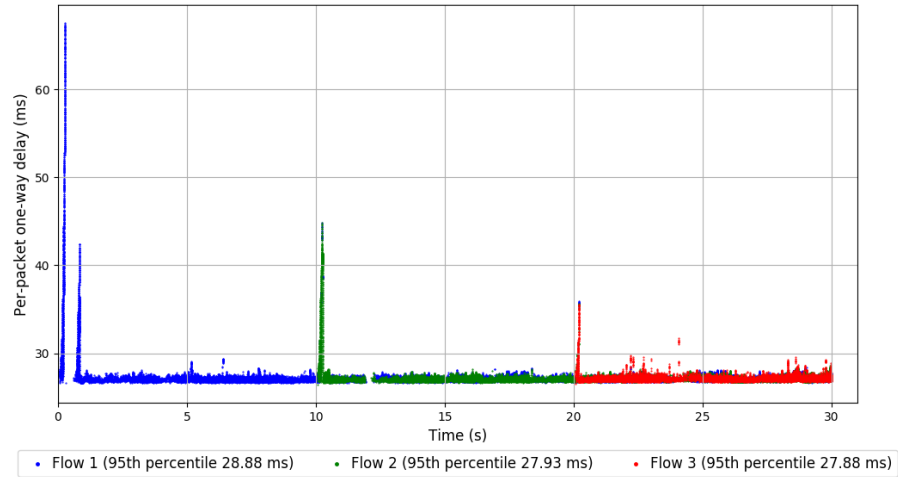
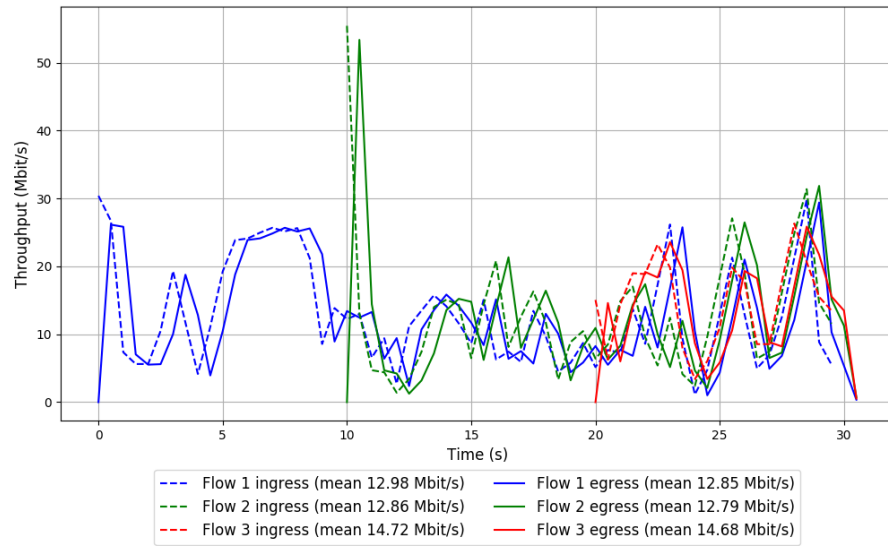
-- Flow 3:

Average throughput: 14.68 Mbit/s

95th percentile per-packet one-way delay: 27.880 ms

Loss rate: 0.29%

Run 9: Report of TCP Vegas — Data Link

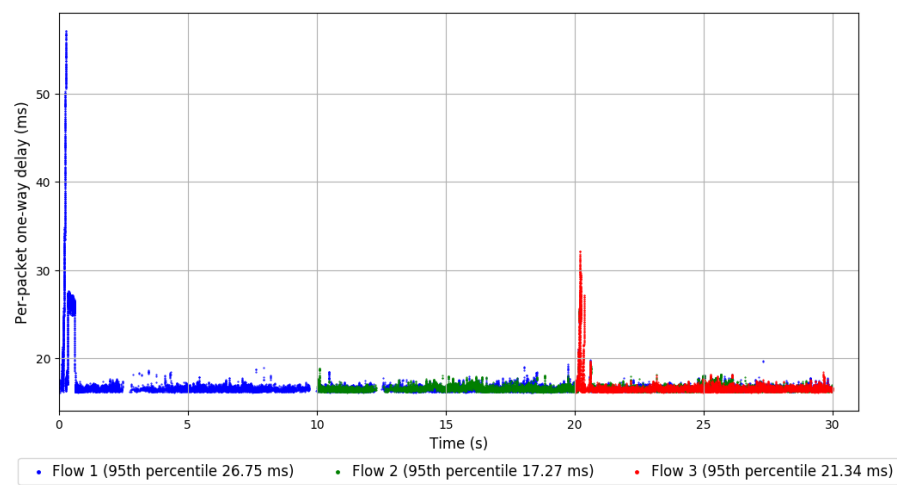
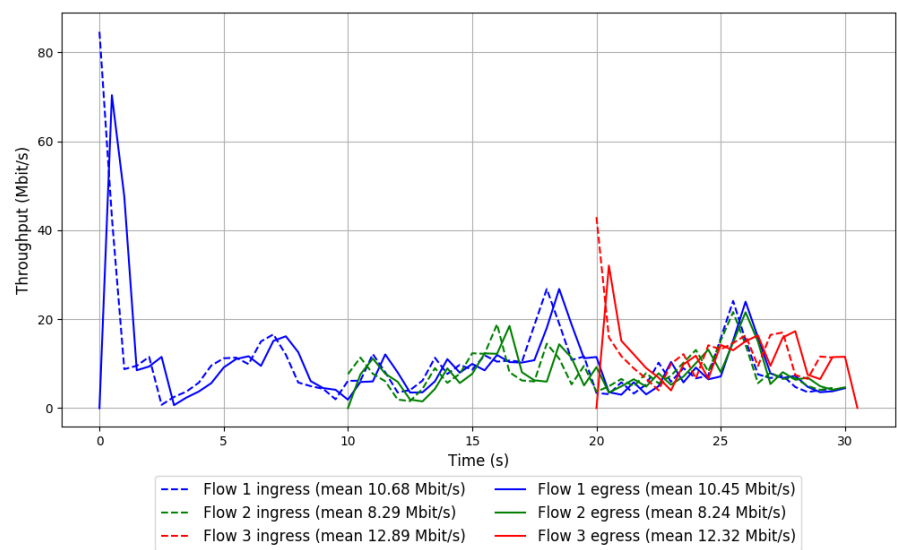


Run 10: Statistics of TCP Vegas

Start at: 2018-07-24 17:31:43
End at: 2018-07-24 17:32:13
Local clock offset: 0.908 ms
Remote clock offset: -1.836 ms

Below is generated by plot.py at 2018-07-24 18:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.03 Mbit/s
95th percentile per-packet one-way delay: 26.077 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 10.45 Mbit/s
95th percentile per-packet one-way delay: 26.754 ms
Loss rate: 2.14%
-- Flow 2:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 17.266 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 12.32 Mbit/s
95th percentile per-packet one-way delay: 21.340 ms
Loss rate: 4.43%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-24 14:40:41

End at: 2018-07-24 14:41:11

Local clock offset: 1.505 ms

Remote clock offset: 9.849 ms

Below is generated by plot.py at 2018-07-24 18:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.60 Mbit/s

95th percentile per-packet one-way delay: 64.095 ms

Loss rate: 35.98%

-- Flow 1:

Average throughput: 41.81 Mbit/s

95th percentile per-packet one-way delay: 60.036 ms

Loss rate: 18.51%

-- Flow 2:

Average throughput: 26.02 Mbit/s

95th percentile per-packet one-way delay: 67.280 ms

Loss rate: 58.13%

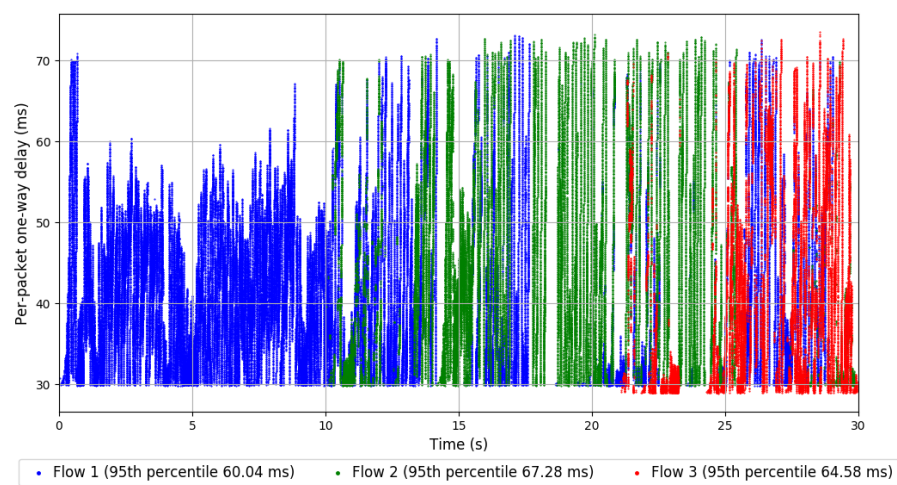
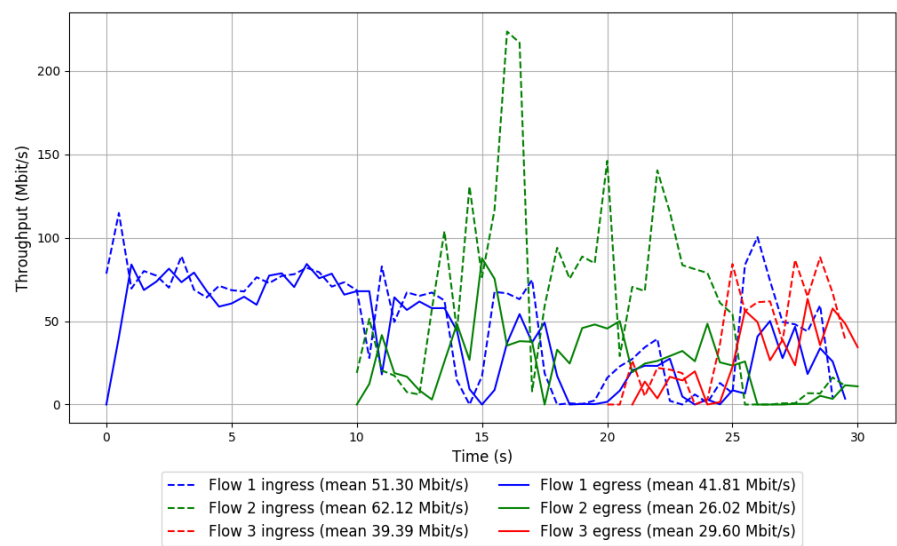
-- Flow 3:

Average throughput: 29.60 Mbit/s

95th percentile per-packet one-way delay: 64.584 ms

Loss rate: 32.45%

Run 1: Report of Verus — Data Link

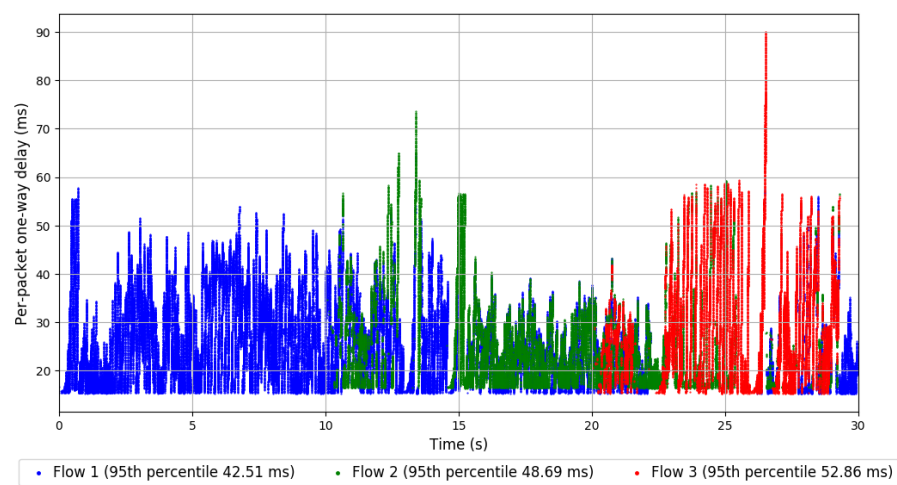
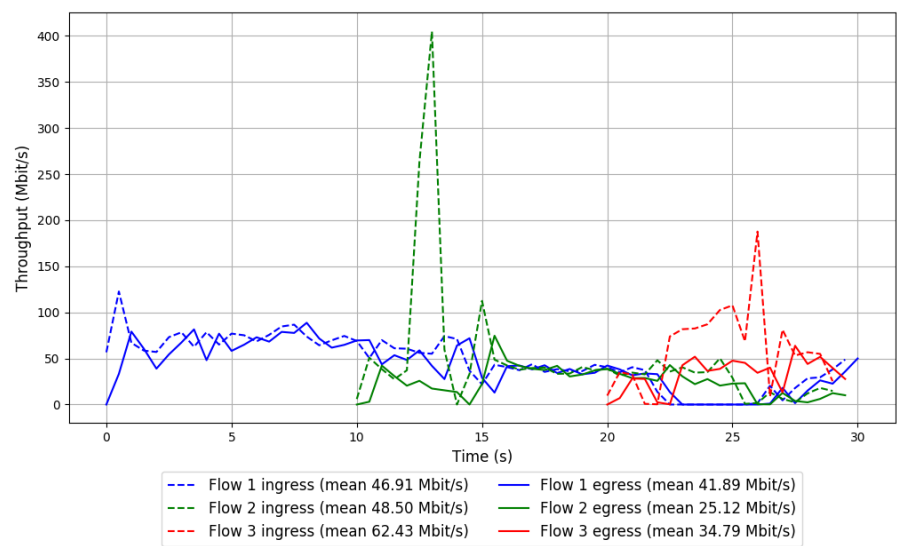


Run 2: Statistics of Verus

Start at: 2018-07-24 15:00:32
End at: 2018-07-24 15:01:02
Local clock offset: 1.832 ms
Remote clock offset: -1.635 ms

Below is generated by plot.py at 2018-07-24 18:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.78 Mbit/s
95th percentile per-packet one-way delay: 45.755 ms
Loss rate: 29.32%
-- Flow 1:
Average throughput: 41.89 Mbit/s
95th percentile per-packet one-way delay: 42.509 ms
Loss rate: 10.67%
-- Flow 2:
Average throughput: 25.12 Mbit/s
95th percentile per-packet one-way delay: 48.685 ms
Loss rate: 48.24%
-- Flow 3:
Average throughput: 34.79 Mbit/s
95th percentile per-packet one-way delay: 52.861 ms
Loss rate: 44.10%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-24 15:20:45

End at: 2018-07-24 15:21:15

Local clock offset: -0.724 ms

Remote clock offset: 2.644 ms

Below is generated by plot.py at 2018-07-24 18:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 60.356 ms

Loss rate: 68.71%

-- Flow 1:

Average throughput: 33.08 Mbit/s

95th percentile per-packet one-way delay: 47.762 ms

Loss rate: 22.06%

-- Flow 2:

Average throughput: 32.61 Mbit/s

95th percentile per-packet one-way delay: 60.048 ms

Loss rate: 80.39%

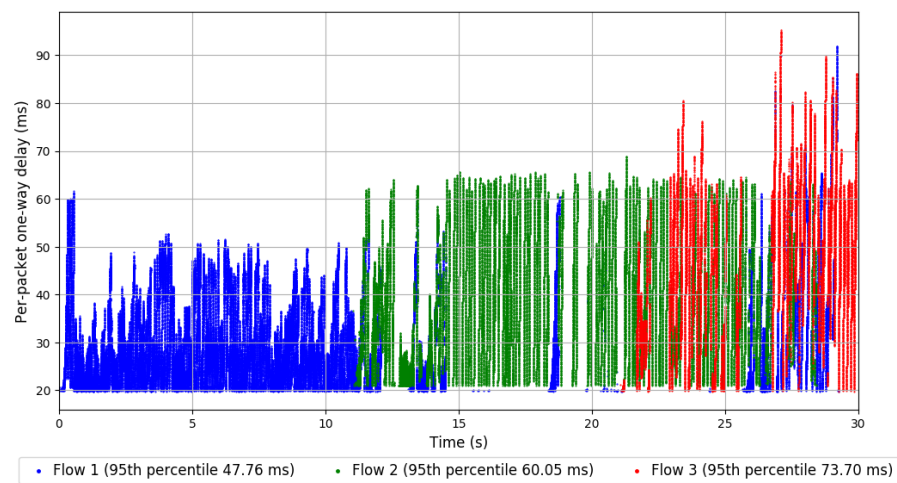
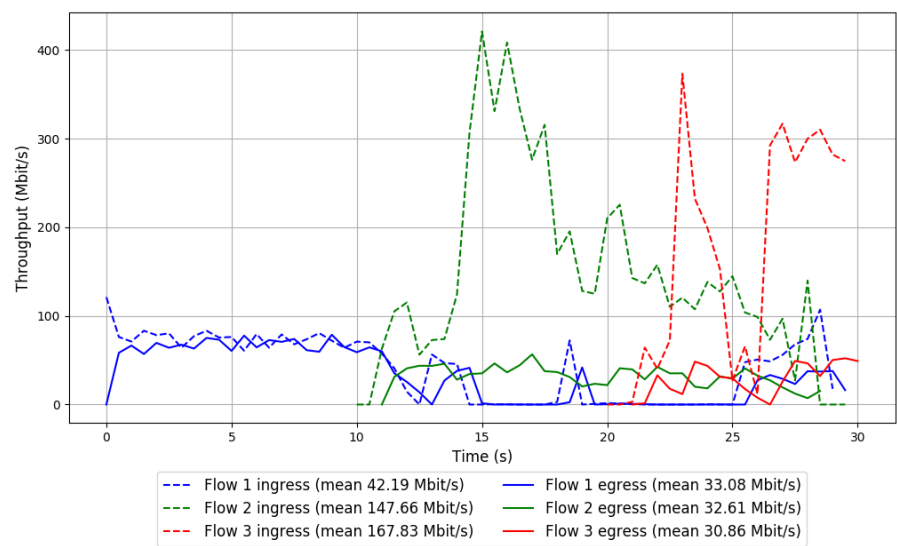
-- Flow 3:

Average throughput: 30.86 Mbit/s

95th percentile per-packet one-way delay: 73.702 ms

Loss rate: 83.37%

Run 3: Report of Verus — Data Link

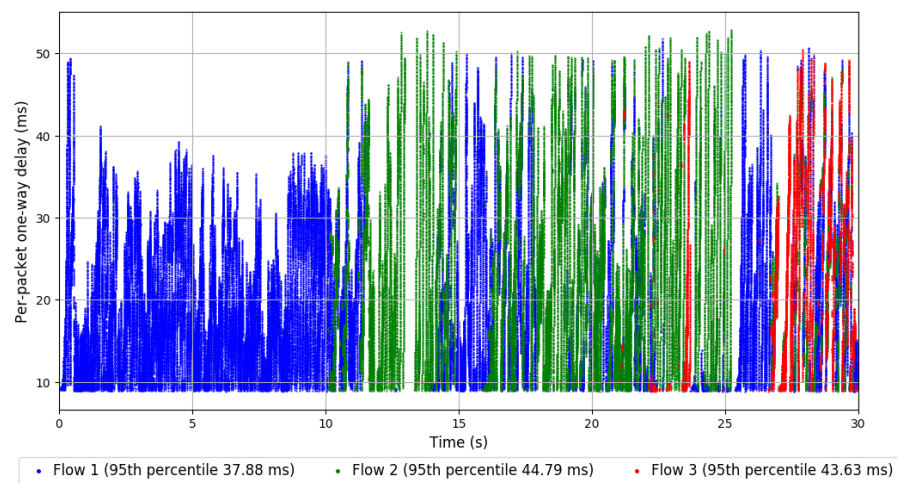
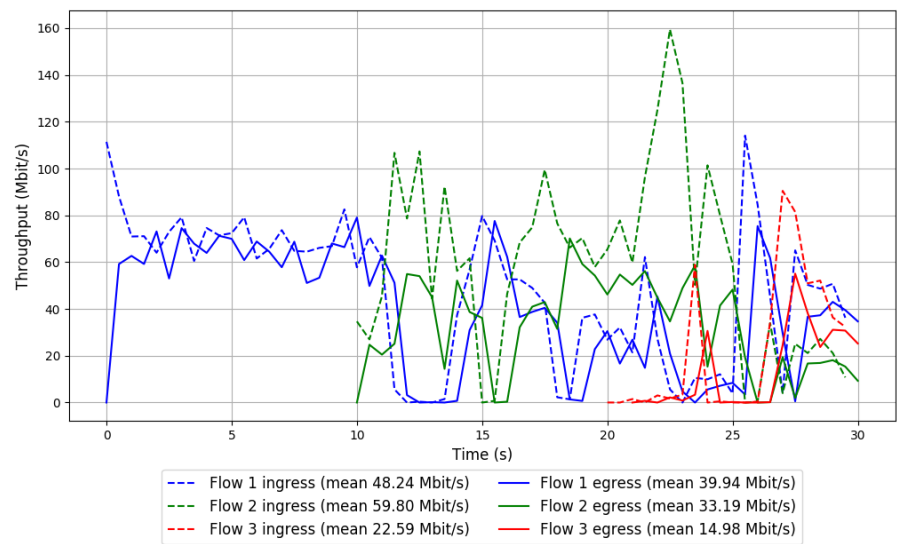


Run 4: Statistics of Verus

Start at: 2018-07-24 15:41:03
End at: 2018-07-24 15:41:33
Local clock offset: 1.721 ms
Remote clock offset: -2.199 ms

```
# Below is generated by plot.py at 2018-07-24 18:03:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.33 Mbit/s
95th percentile per-packet one-way delay: 41.997 ms
Loss rate: 30.39%
-- Flow 1:
Average throughput: 39.94 Mbit/s
95th percentile per-packet one-way delay: 37.877 ms
Loss rate: 17.19%
-- Flow 2:
Average throughput: 33.19 Mbit/s
95th percentile per-packet one-way delay: 44.786 ms
Loss rate: 44.58%
-- Flow 3:
Average throughput: 14.98 Mbit/s
95th percentile per-packet one-way delay: 43.626 ms
Loss rate: 40.38%
```


Run 4: Report of Verus — Data Link

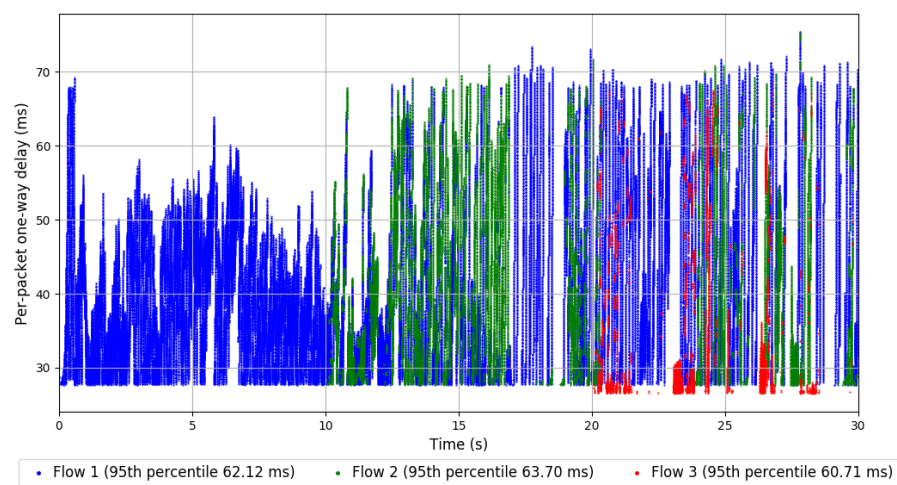
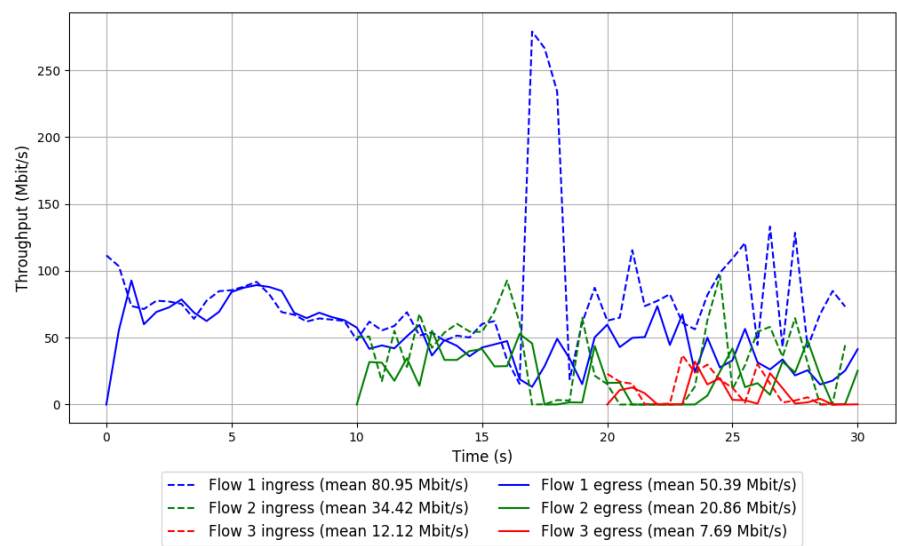


Run 5: Statistics of Verus

Start at: 2018-07-24 16:01:23
End at: 2018-07-24 16:01:53
Local clock offset: 2.52 ms
Remote clock offset: 18.752 ms

Below is generated by plot.py at 2018-07-24 18:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.73 Mbit/s
95th percentile per-packet one-way delay: 62.562 ms
Loss rate: 38.02%
-- Flow 1:
Average throughput: 50.39 Mbit/s
95th percentile per-packet one-way delay: 62.116 ms
Loss rate: 37.68%
-- Flow 2:
Average throughput: 20.86 Mbit/s
95th percentile per-packet one-way delay: 63.697 ms
Loss rate: 39.47%
-- Flow 3:
Average throughput: 7.69 Mbit/s
95th percentile per-packet one-way delay: 60.710 ms
Loss rate: 36.72%

Run 5: Report of Verus — Data Link

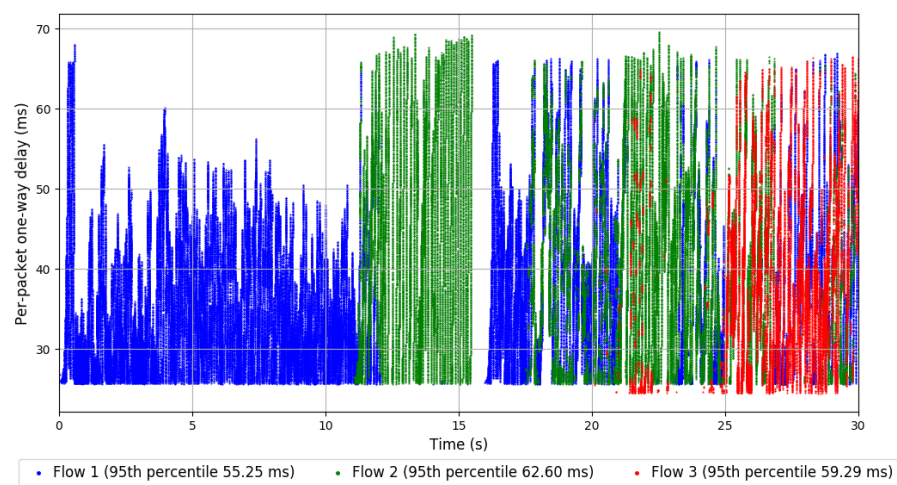
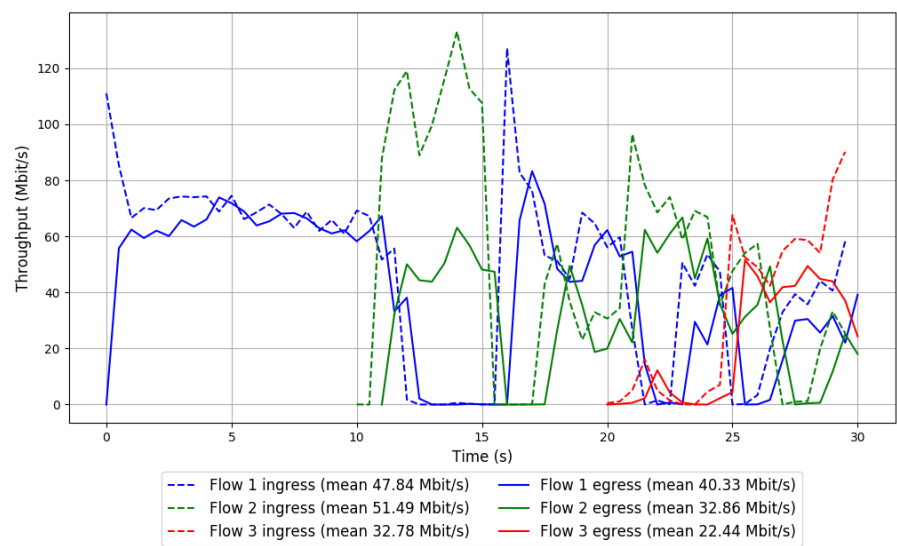


Run 6: Statistics of Verus

Start at: 2018-07-24 16:21:21
End at: 2018-07-24 16:21:51
Local clock offset: 1.768 ms
Remote clock offset: 18.068 ms

Below is generated by plot.py at 2018-07-24 18:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.48 Mbit/s
95th percentile per-packet one-way delay: 59.383 ms
Loss rate: 26.23%
-- Flow 1:
Average throughput: 40.33 Mbit/s
95th percentile per-packet one-way delay: 55.247 ms
Loss rate: 15.65%
-- Flow 2:
Average throughput: 32.86 Mbit/s
95th percentile per-packet one-way delay: 62.598 ms
Loss rate: 39.32%
-- Flow 3:
Average throughput: 22.44 Mbit/s
95th percentile per-packet one-way delay: 59.291 ms
Loss rate: 31.56%

Run 6: Report of Verus — Data Link

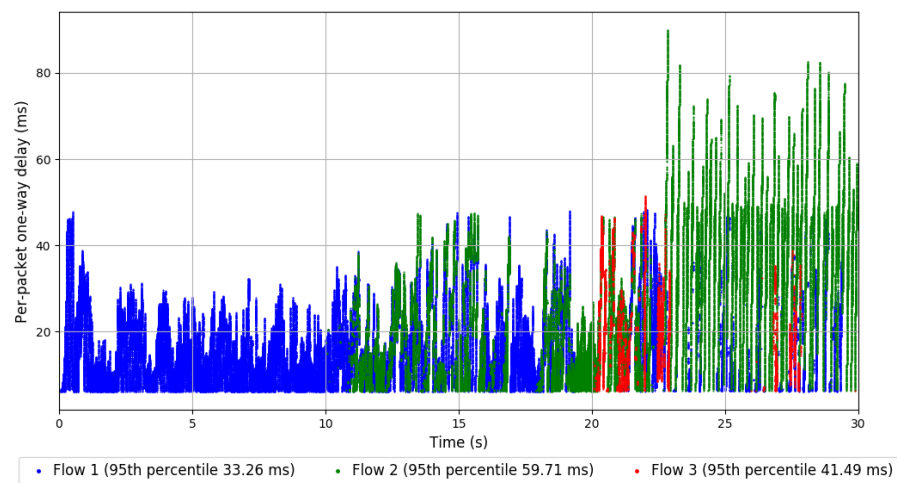
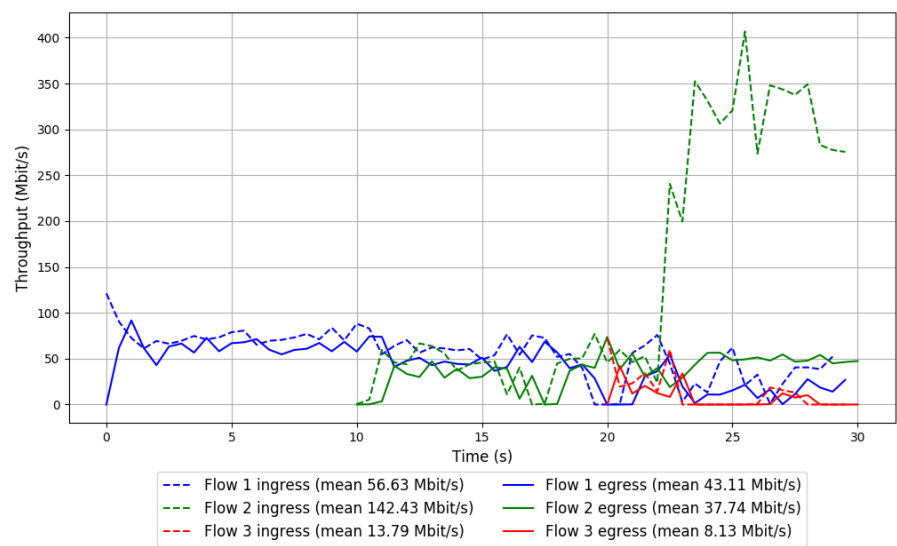


Run 7: Statistics of Verus

Start at: 2018-07-24 16:41:22
End at: 2018-07-24 16:41:52
Local clock offset: 0.429 ms
Remote clock offset: -5.822 ms

Below is generated by plot.py at 2018-07-24 18:03:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.08 Mbit/s
95th percentile per-packet one-way delay: 46.516 ms
Loss rate: 54.75%
-- Flow 1:
Average throughput: 43.11 Mbit/s
95th percentile per-packet one-way delay: 33.260 ms
Loss rate: 24.08%
-- Flow 2:
Average throughput: 37.74 Mbit/s
95th percentile per-packet one-way delay: 59.708 ms
Loss rate: 73.46%
-- Flow 3:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 41.490 ms
Loss rate: 41.26%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-24 17:01:32

End at: 2018-07-24 17:02:02

Local clock offset: -0.744 ms

Remote clock offset: 5.03 ms

Below is generated by plot.py at 2018-07-24 18:03:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.98 Mbit/s

95th percentile per-packet one-way delay: 55.076 ms

Loss rate: 49.79%

-- Flow 1:

Average throughput: 51.30 Mbit/s

95th percentile per-packet one-way delay: 55.322 ms

Loss rate: 49.63%

-- Flow 2:

Average throughput: 13.60 Mbit/s

95th percentile per-packet one-way delay: 54.567 ms

Loss rate: 53.00%

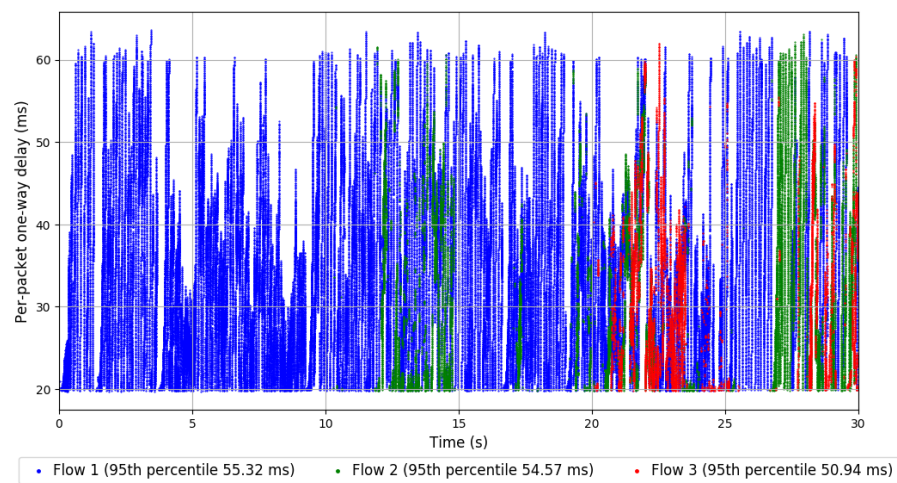
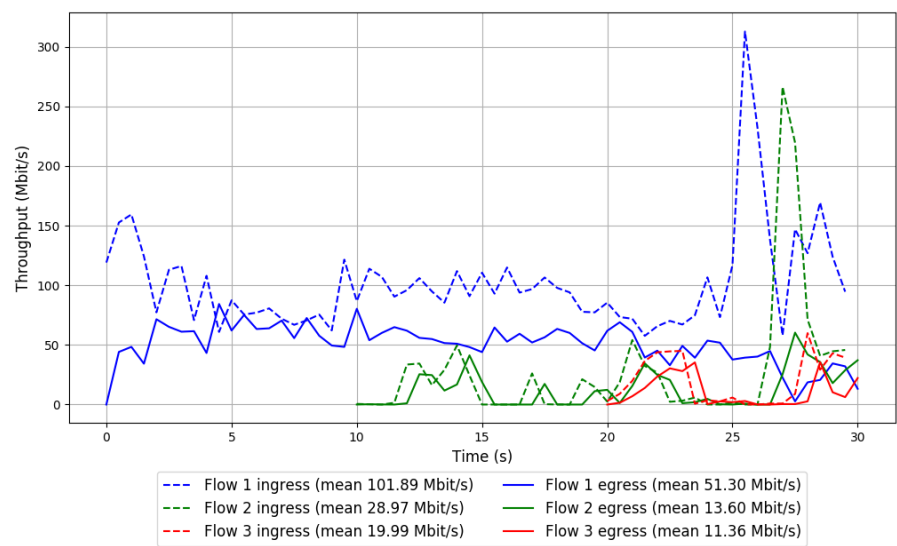
-- Flow 3:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 50.942 ms

Loss rate: 43.19%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-24 17:21:16

End at: 2018-07-24 17:21:46

Local clock offset: 0.003 ms

Remote clock offset: 4.435 ms

Below is generated by plot.py at 2018-07-24 18:03:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.21 Mbit/s

95th percentile per-packet one-way delay: 52.856 ms

Loss rate: 21.51%

-- Flow 1:

Average throughput: 42.43 Mbit/s

95th percentile per-packet one-way delay: 50.619 ms

Loss rate: 15.73%

-- Flow 2:

Average throughput: 37.60 Mbit/s

95th percentile per-packet one-way delay: 55.060 ms

Loss rate: 29.37%

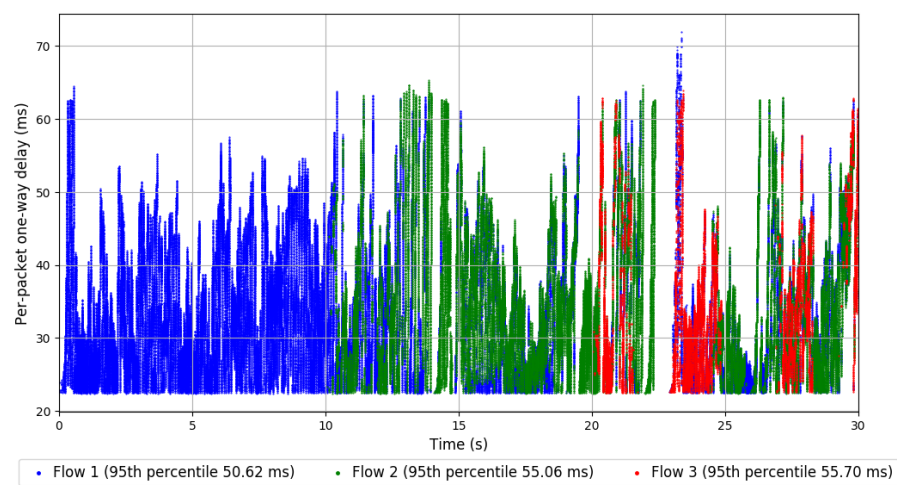
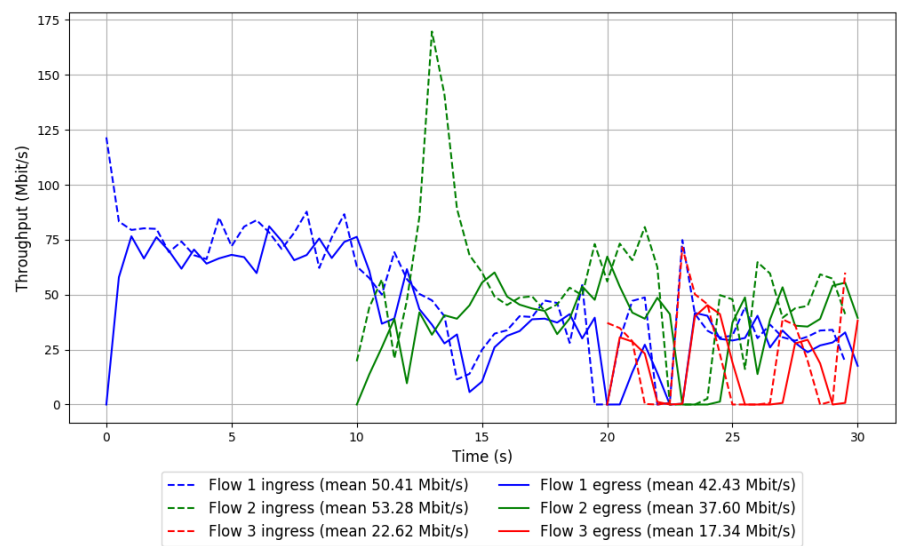
-- Flow 3:

Average throughput: 17.34 Mbit/s

95th percentile per-packet one-way delay: 55.704 ms

Loss rate: 23.13%

Run 9: Report of Verus — Data Link

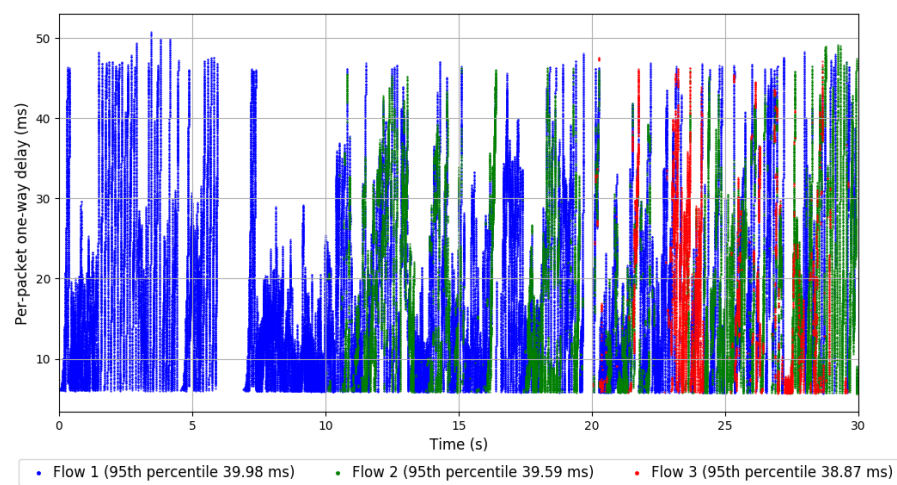
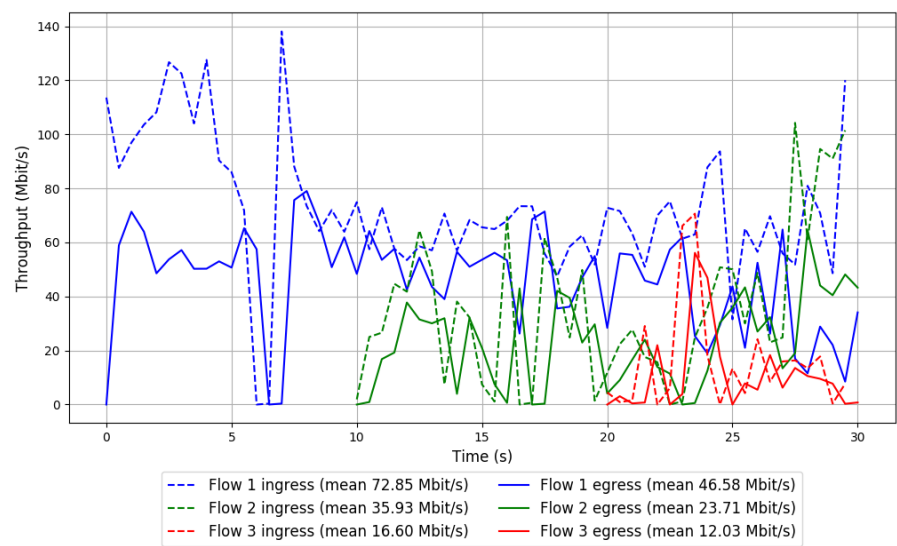


Run 10: Statistics of Verus

Start at: 2018-07-24 17:41:09
End at: 2018-07-24 17:41:39
Local clock offset: 0.901 ms
Remote clock offset: -9.496 ms

Below is generated by plot.py at 2018-07-24 18:03:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.11 Mbit/s
95th percentile per-packet one-way delay: 39.801 ms
Loss rate: 35.11%
-- Flow 1:
Average throughput: 46.58 Mbit/s
95th percentile per-packet one-way delay: 39.976 ms
Loss rate: 36.02%
-- Flow 2:
Average throughput: 23.71 Mbit/s
95th percentile per-packet one-way delay: 39.589 ms
Loss rate: 34.02%
-- Flow 3:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 38.874 ms
Loss rate: 27.49%

Run 10: Report of Verus — Data Link

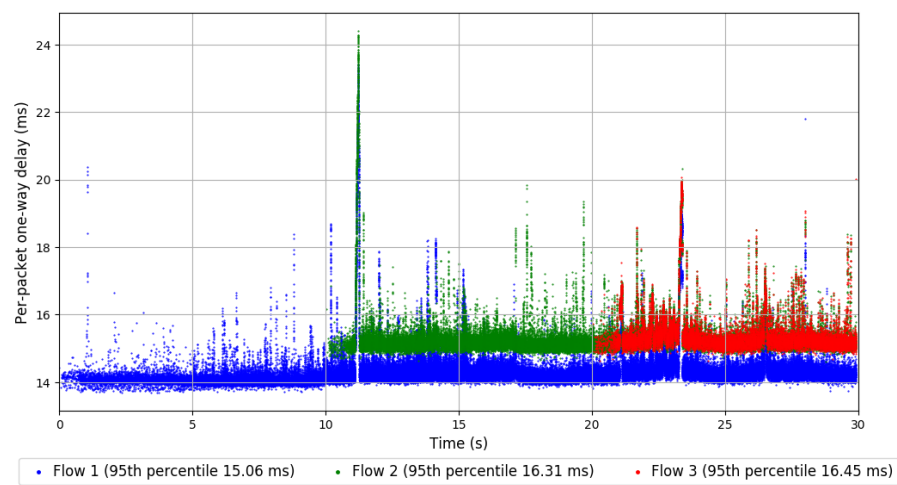
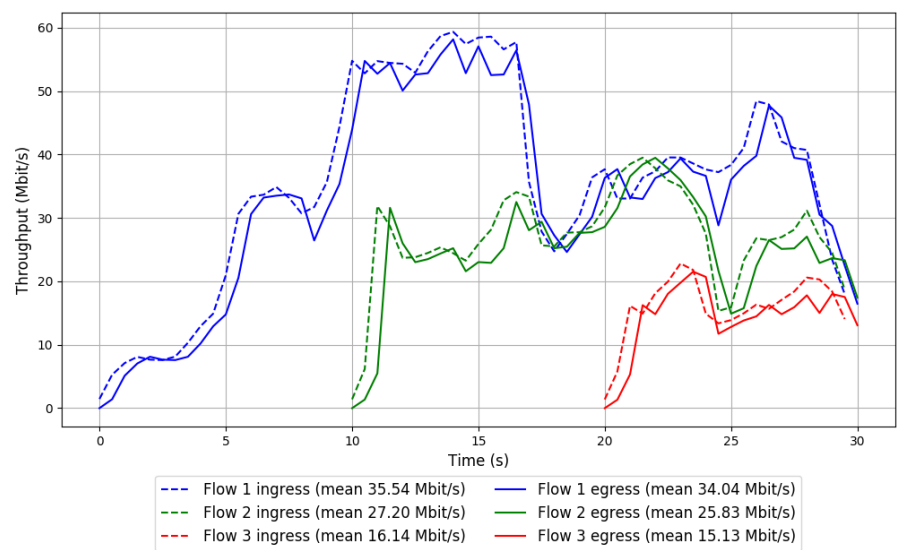


Run 1: Statistics of PCC-Vivace

Start at: 2018-07-24 14:27:58
End at: 2018-07-24 14:28:28
Local clock offset: 0.808 ms
Remote clock offset: -5.349 ms

Below is generated by plot.py at 2018-07-24 18:03:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.21 Mbit/s
95th percentile per-packet one-way delay: 15.867 ms
Loss rate: 4.65%
-- Flow 1:
Average throughput: 34.04 Mbit/s
95th percentile per-packet one-way delay: 15.059 ms
Loss rate: 4.22%
-- Flow 2:
Average throughput: 25.83 Mbit/s
95th percentile per-packet one-way delay: 16.313 ms
Loss rate: 5.04%
-- Flow 3:
Average throughput: 15.13 Mbit/s
95th percentile per-packet one-way delay: 16.454 ms
Loss rate: 6.21%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-24 14:47:41

End at: 2018-07-24 14:48:11

Local clock offset: 0.562 ms

Remote clock offset: 5.954 ms

Below is generated by plot.py at 2018-07-24 18:03:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.88 Mbit/s

95th percentile per-packet one-way delay: 31.683 ms

Loss rate: 3.92%

-- Flow 1:

Average throughput: 57.20 Mbit/s

95th percentile per-packet one-way delay: 30.565 ms

Loss rate: 4.40%

-- Flow 2:

Average throughput: 25.71 Mbit/s

95th percentile per-packet one-way delay: 32.561 ms

Loss rate: 2.72%

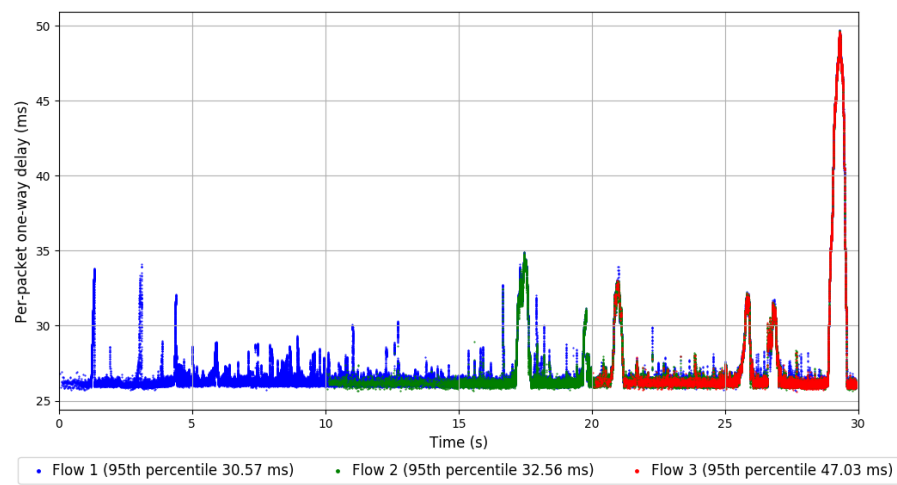
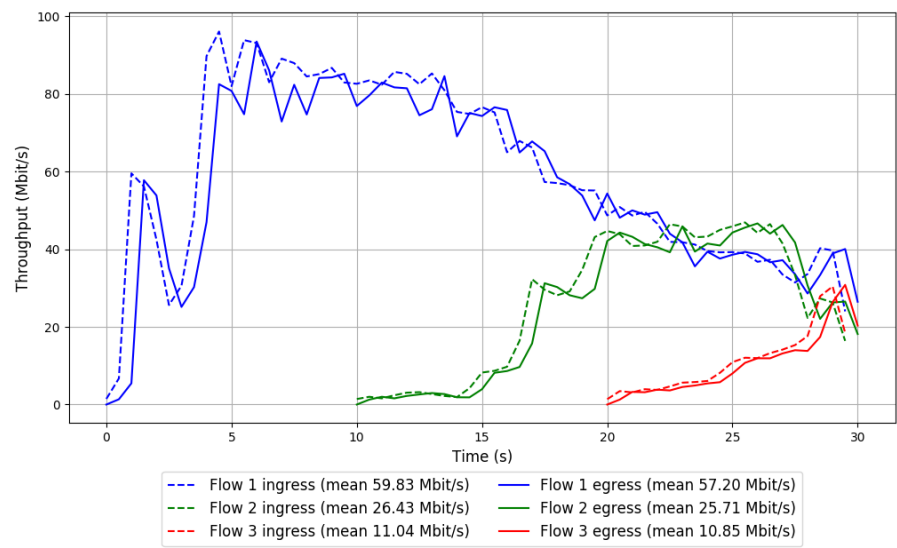
-- Flow 3:

Average throughput: 10.85 Mbit/s

95th percentile per-packet one-way delay: 47.034 ms

Loss rate: 1.74%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

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

End at: 2018-07-24 15:08:09

Local clock offset: 0.642 ms

Remote clock offset: 1.832 ms

Below is generated by plot.py at 2018-07-24 18:03:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.36 Mbit/s

95th percentile per-packet one-way delay: 20.720 ms

Loss rate: 5.93%

-- Flow 1:

Average throughput: 57.44 Mbit/s

95th percentile per-packet one-way delay: 20.806 ms

Loss rate: 5.80%

-- Flow 2:

Average throughput: 22.26 Mbit/s

95th percentile per-packet one-way delay: 19.850 ms

Loss rate: 6.05%

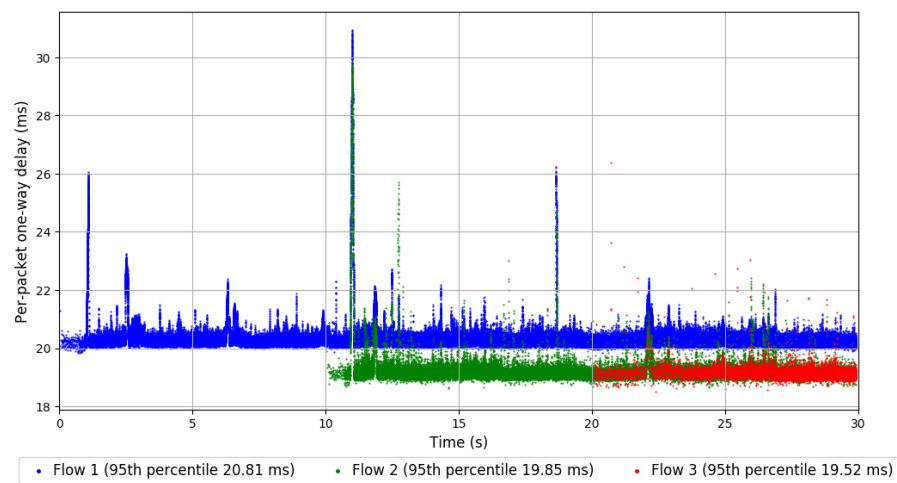
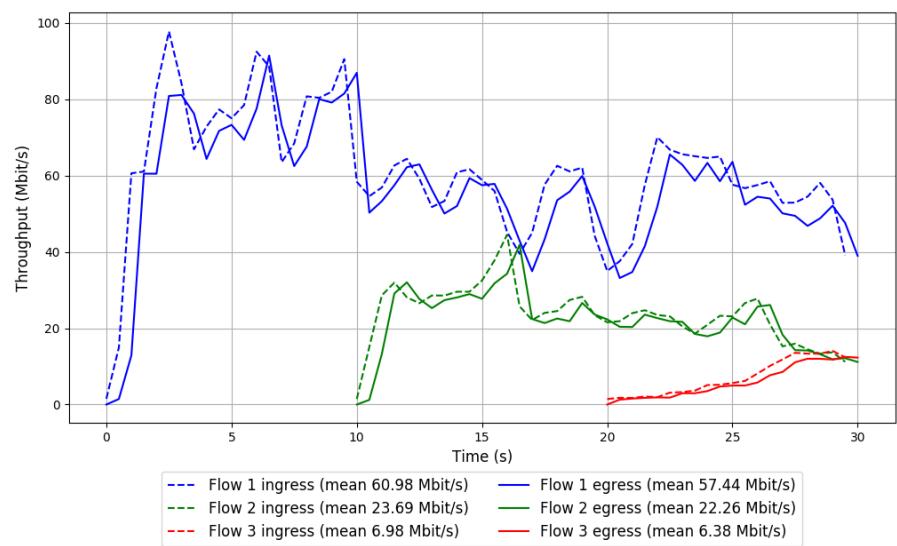
-- Flow 3:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 19.524 ms

Loss rate: 8.58%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-24 15:27:54

End at: 2018-07-24 15:28:24

Local clock offset: 0.318 ms

Remote clock offset: 8.3 ms

Below is generated by plot.py at 2018-07-24 18:03:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.87 Mbit/s

95th percentile per-packet one-way delay: 23.870 ms

Loss rate: 6.68%

-- Flow 1:

Average throughput: 50.95 Mbit/s

95th percentile per-packet one-way delay: 24.023 ms

Loss rate: 6.62%

-- Flow 2:

Average throughput: 20.31 Mbit/s

95th percentile per-packet one-way delay: 23.051 ms

Loss rate: 6.39%

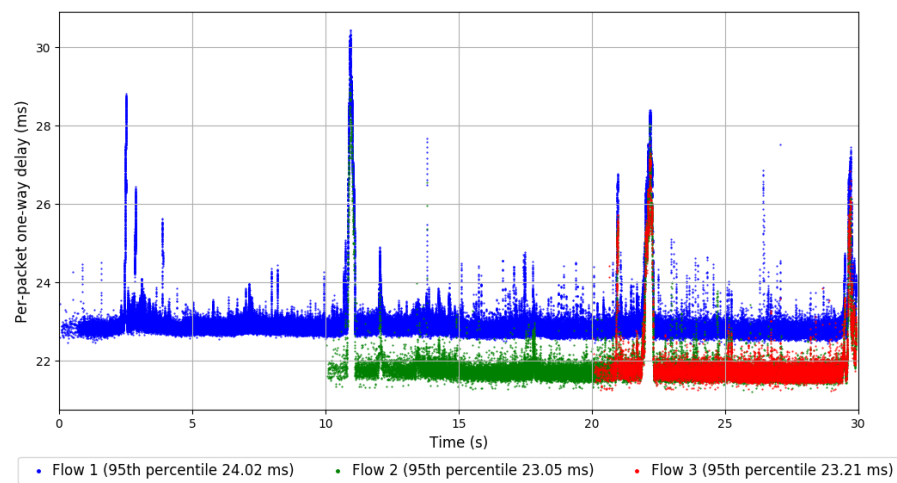
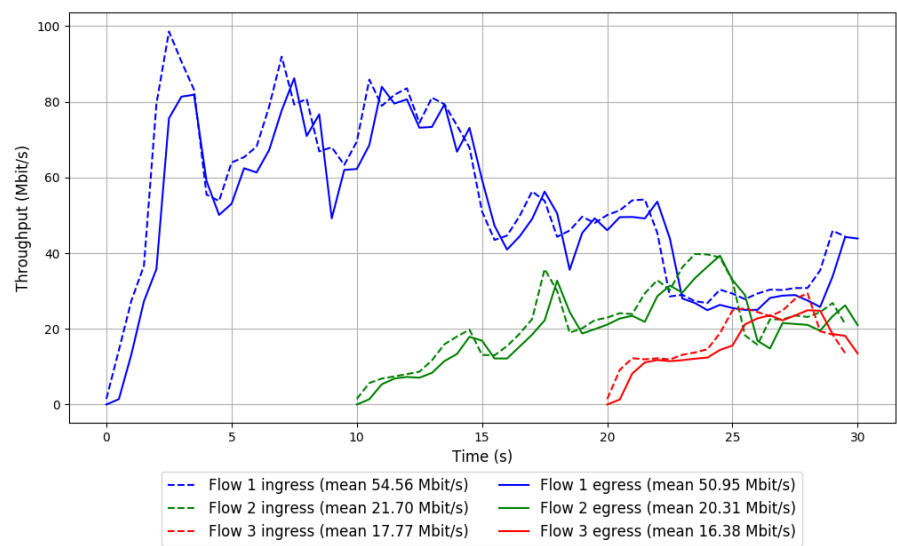
-- Flow 3:

Average throughput: 16.38 Mbit/s

95th percentile per-packet one-way delay: 23.207 ms

Loss rate: 7.85%

Run 4: Report of PCC-Vivace — Data Link

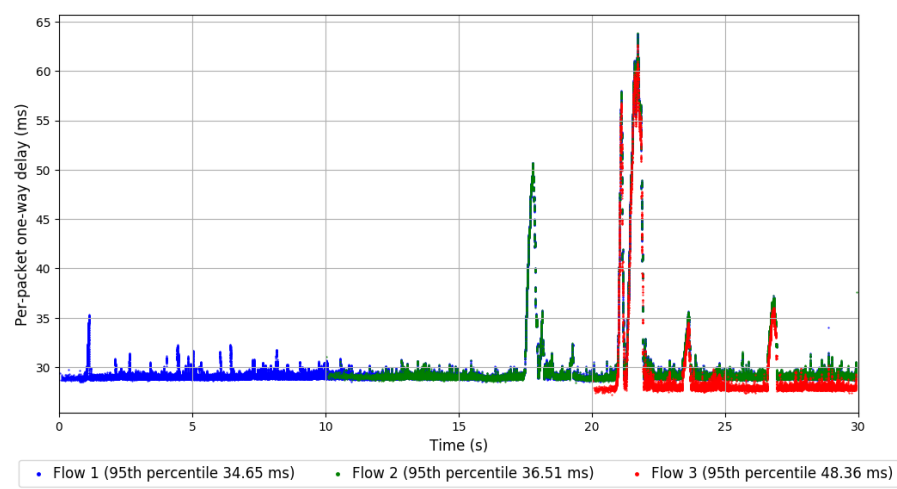
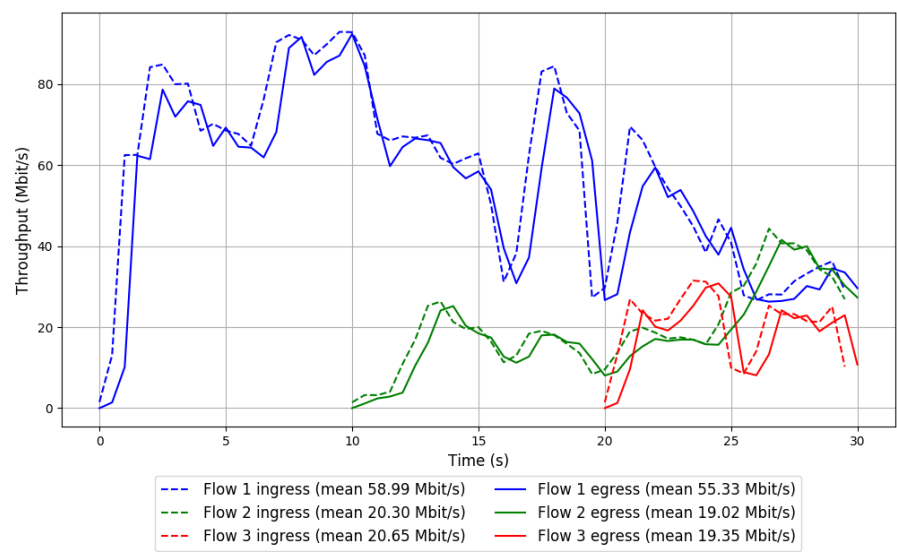


Run 5: Statistics of PCC-Vivace

Start at: 2018-07-24 15:48:17
End at: 2018-07-24 15:48:47
Local clock offset: -0.218 ms
Remote clock offset: 16.329 ms

Below is generated by plot.py at 2018-07-24 18:04:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.36 Mbit/s
95th percentile per-packet one-way delay: 35.871 ms
Loss rate: 6.22%
-- Flow 1:
Average throughput: 55.33 Mbit/s
95th percentile per-packet one-way delay: 34.650 ms
Loss rate: 6.20%
-- Flow 2:
Average throughput: 19.02 Mbit/s
95th percentile per-packet one-way delay: 36.510 ms
Loss rate: 6.28%
-- Flow 3:
Average throughput: 19.35 Mbit/s
95th percentile per-packet one-way delay: 48.356 ms
Loss rate: 6.29%

Run 5: Report of PCC-Vivace — Data Link

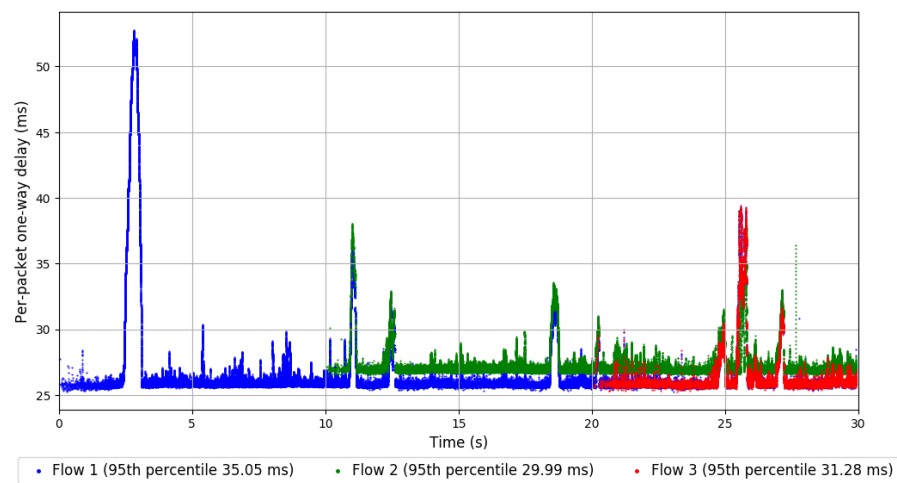
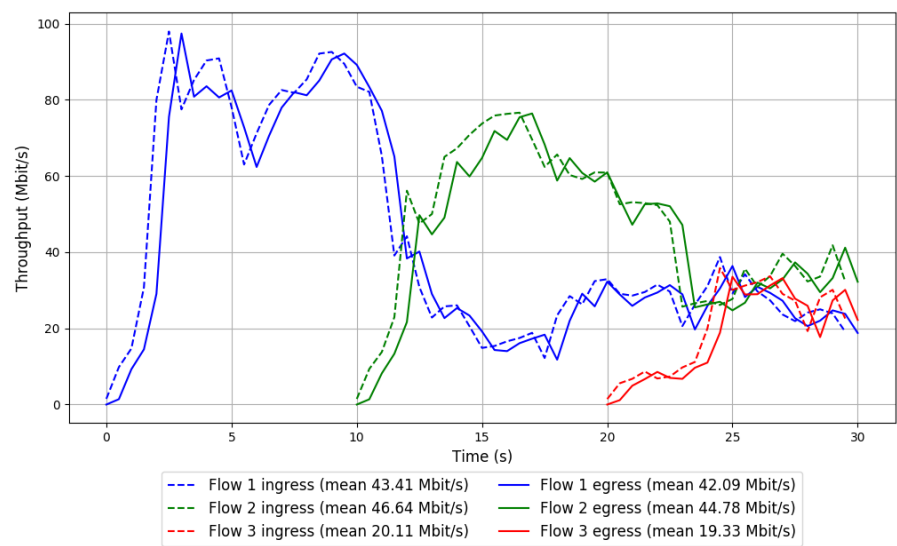


Run 6: Statistics of PCC-Vivace

Start at: 2018-07-24 16:08:26
End at: 2018-07-24 16:08:56
Local clock offset: 2.323 ms
Remote clock offset: 18.345 ms

Below is generated by plot.py at 2018-07-24 18:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.25 Mbit/s
95th percentile per-packet one-way delay: 31.602 ms
Loss rate: 3.47%
-- Flow 1:
Average throughput: 42.09 Mbit/s
95th percentile per-packet one-way delay: 35.051 ms
Loss rate: 3.04%
-- Flow 2:
Average throughput: 44.78 Mbit/s
95th percentile per-packet one-way delay: 29.991 ms
Loss rate: 3.98%
-- Flow 3:
Average throughput: 19.33 Mbit/s
95th percentile per-packet one-way delay: 31.284 ms
Loss rate: 3.89%

Run 6: Report of PCC-Vivace — Data Link

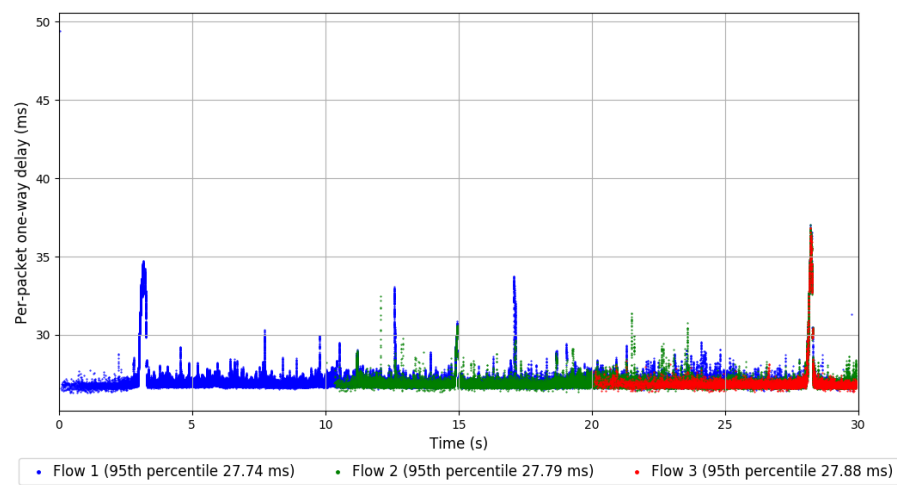
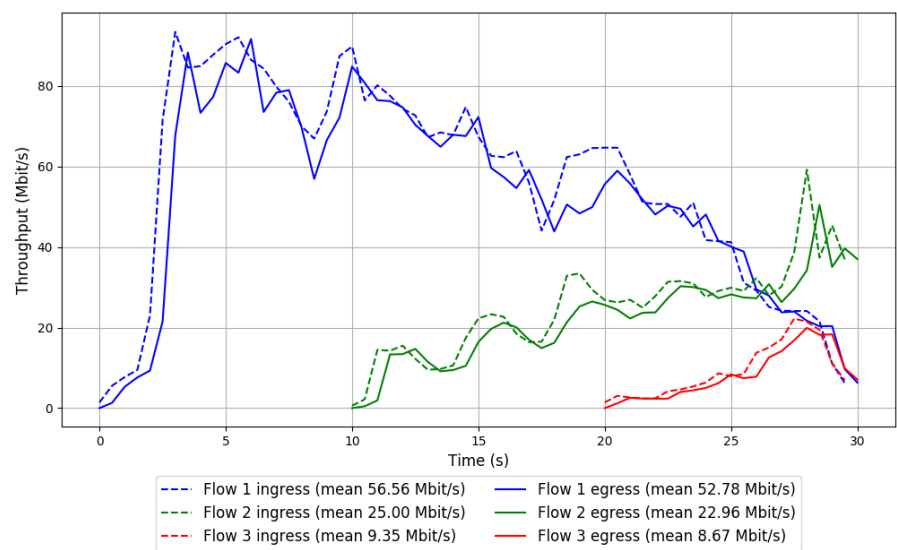


Run 7: Statistics of PCC-Vivace

Start at: 2018-07-24 16:28:28
End at: 2018-07-24 16:28:58
Local clock offset: 1.527 ms
Remote clock offset: 20.492 ms

Below is generated by plot.py at 2018-07-24 18:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.92 Mbit/s
95th percentile per-packet one-way delay: 27.751 ms
Loss rate: 7.09%
-- Flow 1:
Average throughput: 52.78 Mbit/s
95th percentile per-packet one-way delay: 27.737 ms
Loss rate: 6.76%
-- Flow 2:
Average throughput: 22.96 Mbit/s
95th percentile per-packet one-way delay: 27.787 ms
Loss rate: 8.16%
-- Flow 3:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 27.877 ms
Loss rate: 7.30%

Run 7: Report of PCC-Vivace — Data Link

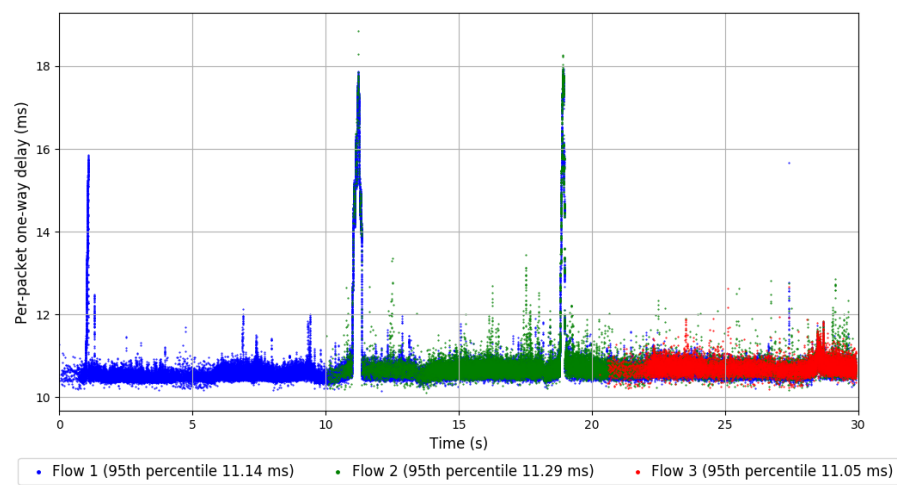
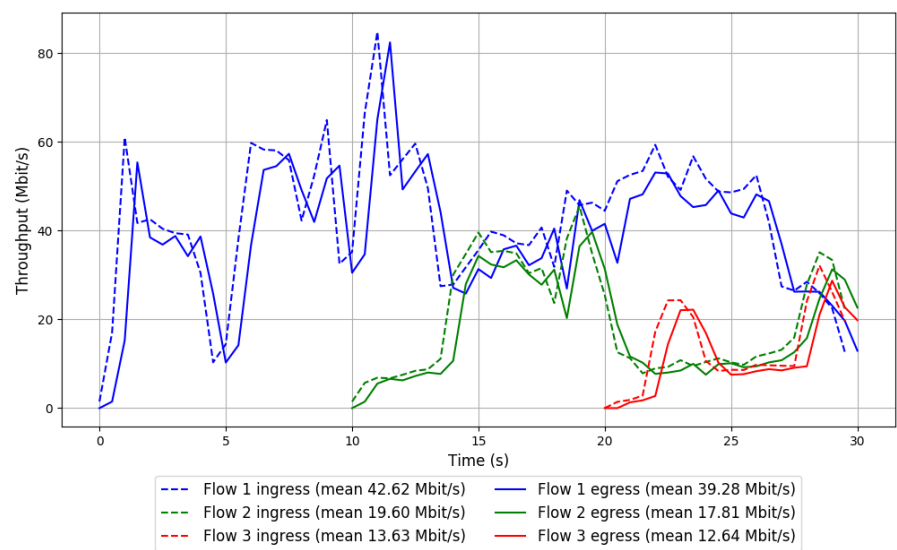


Run 8: Statistics of PCC-Vivace

Start at: 2018-07-24 16:48:44
End at: 2018-07-24 16:49:14
Local clock offset: -0.956 ms
Remote clock offset: -3.893 ms

Below is generated by plot.py at 2018-07-24 18:04:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.19 Mbit/s
95th percentile per-packet one-way delay: 11.161 ms
Loss rate: 8.26%
-- Flow 1:
Average throughput: 39.28 Mbit/s
95th percentile per-packet one-way delay: 11.139 ms
Loss rate: 7.85%
-- Flow 2:
Average throughput: 17.81 Mbit/s
95th percentile per-packet one-way delay: 11.288 ms
Loss rate: 9.15%
-- Flow 3:
Average throughput: 12.64 Mbit/s
95th percentile per-packet one-way delay: 11.051 ms
Loss rate: 9.62%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-24 17:08:35

End at: 2018-07-24 17:09:05

Local clock offset: -1.071 ms

Remote clock offset: 7.372 ms

Below is generated by plot.py at 2018-07-24 18:04:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.64 Mbit/s

95th percentile per-packet one-way delay: 25.573 ms

Loss rate: 6.59%

-- Flow 1:

Average throughput: 54.51 Mbit/s

95th percentile per-packet one-way delay: 25.358 ms

Loss rate: 6.90%

-- Flow 2:

Average throughput: 19.89 Mbit/s

95th percentile per-packet one-way delay: 26.263 ms

Loss rate: 5.62%

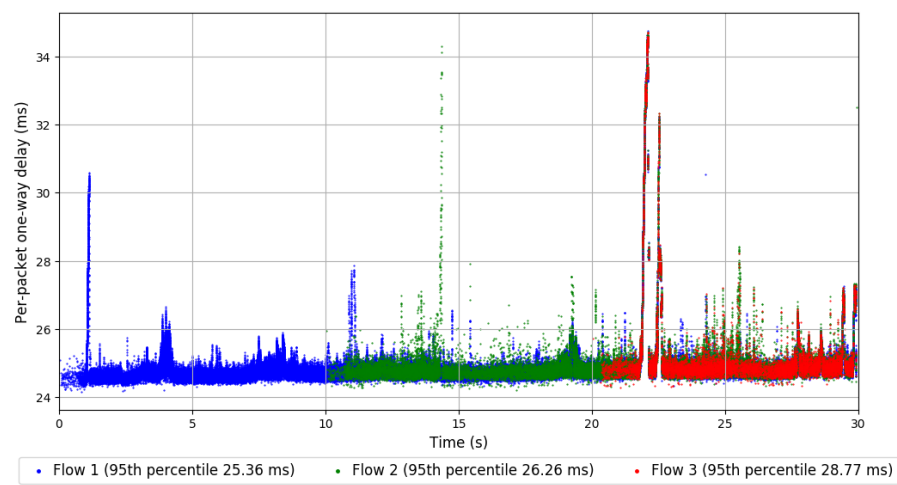
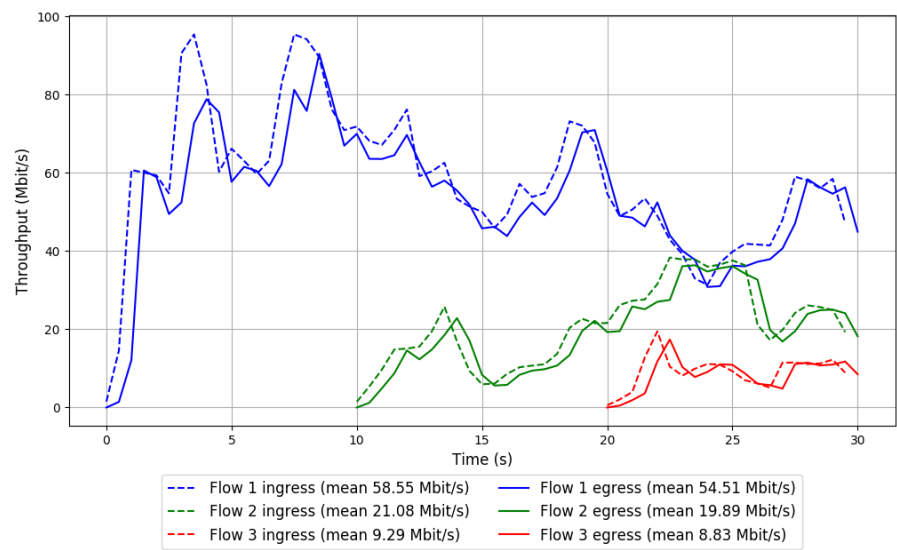
-- Flow 3:

Average throughput: 8.83 Mbit/s

95th percentile per-packet one-way delay: 28.772 ms

Loss rate: 4.98%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-24 17:28:15

End at: 2018-07-24 17:28:45

Local clock offset: -0.74 ms

Remote clock offset: 5.822 ms

Below is generated by plot.py at 2018-07-24 18:04:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.25 Mbit/s

95th percentile per-packet one-way delay: 26.006 ms

Loss rate: 7.18%

-- Flow 1:

Average throughput: 54.32 Mbit/s

95th percentile per-packet one-way delay: 26.058 ms

Loss rate: 6.87%

-- Flow 2:

Average throughput: 16.54 Mbit/s

95th percentile per-packet one-way delay: 25.892 ms

Loss rate: 8.42%

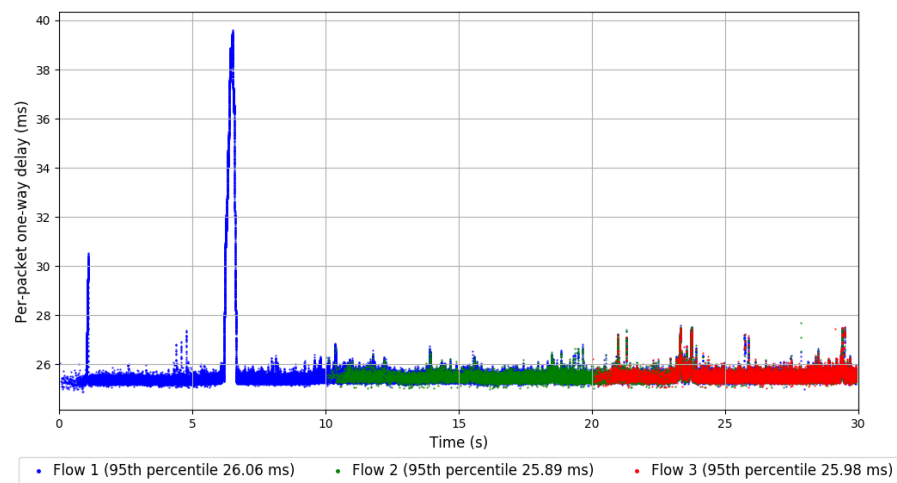
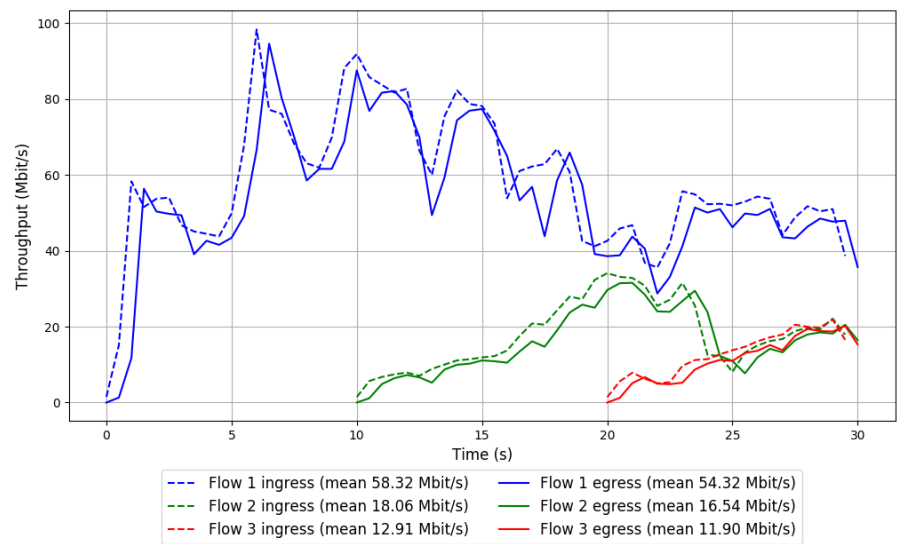
-- Flow 3:

Average throughput: 11.90 Mbit/s

95th percentile per-packet one-way delay: 25.976 ms

Loss rate: 7.83%

Run 10: Report of PCC-Vivace — Data Link

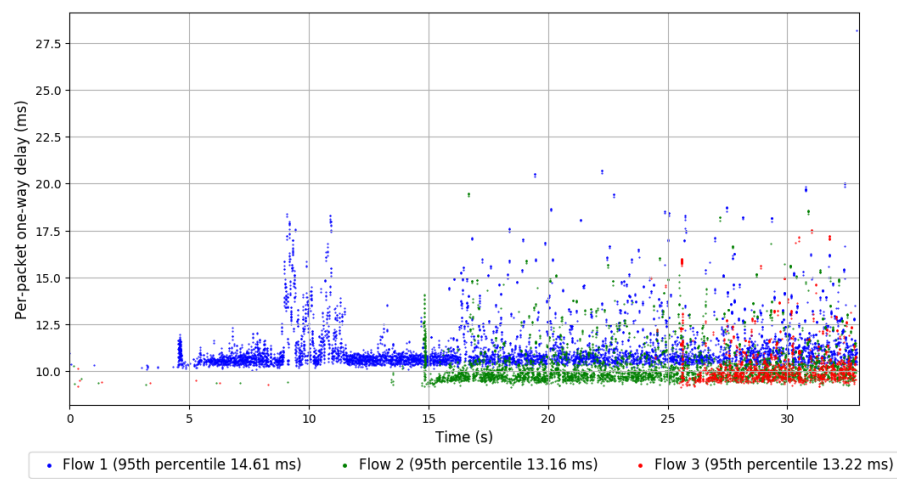
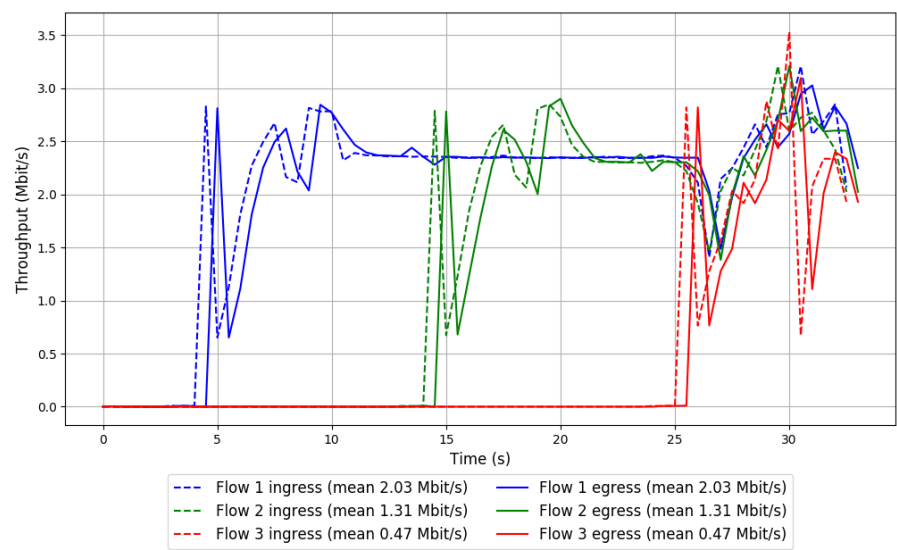


Run 1: Statistics of WebRTC media

Start at: 2018-07-24 14:29:08
End at: 2018-07-24 14:29:38
Local clock offset: 0.76 ms
Remote clock offset: -9.997 ms

Below is generated by plot.py at 2018-07-24 18:04:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 14.043 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 14.613 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 13.156 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 13.220 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

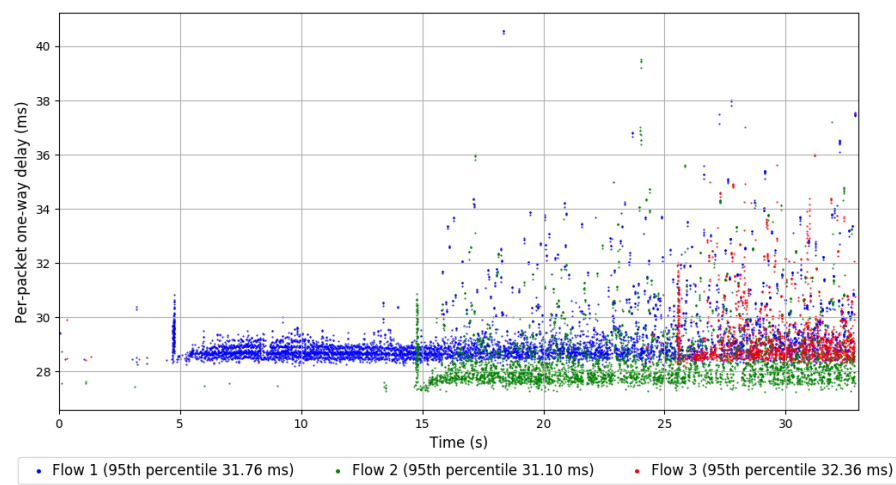
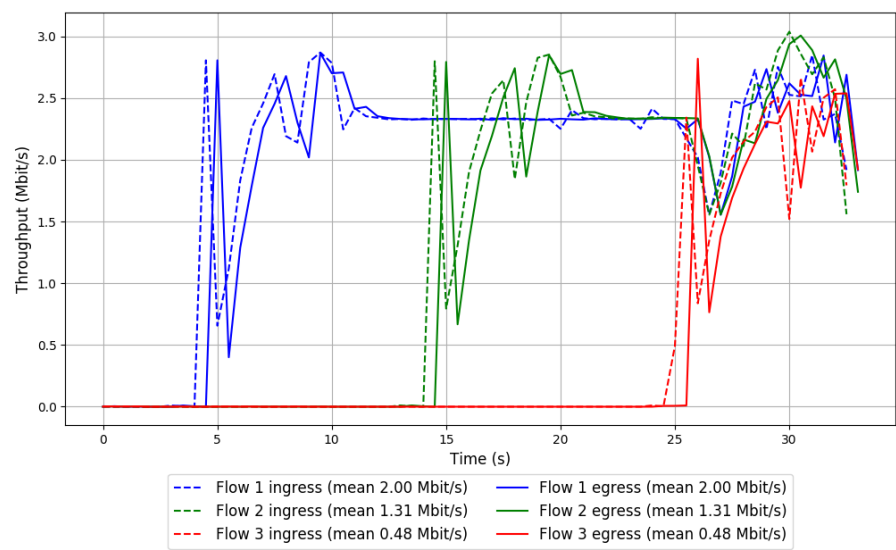


Run 2: Statistics of WebRTC media

Start at: 2018-07-24 14:48:54
End at: 2018-07-24 14:49:24
Local clock offset: 3.763 ms
Remote clock offset: 10.995 ms

Below is generated by plot.py at 2018-07-24 18:04:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 31.616 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 31.763 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 31.102 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 32.363 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-24 15:08:50

End at: 2018-07-24 15:09:20

Local clock offset: 3.659 ms

Remote clock offset: 2.14 ms

Below is generated by plot.py at 2018-07-24 18:04:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 20.719 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 20.757 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 20.621 ms

Loss rate: 0.00%

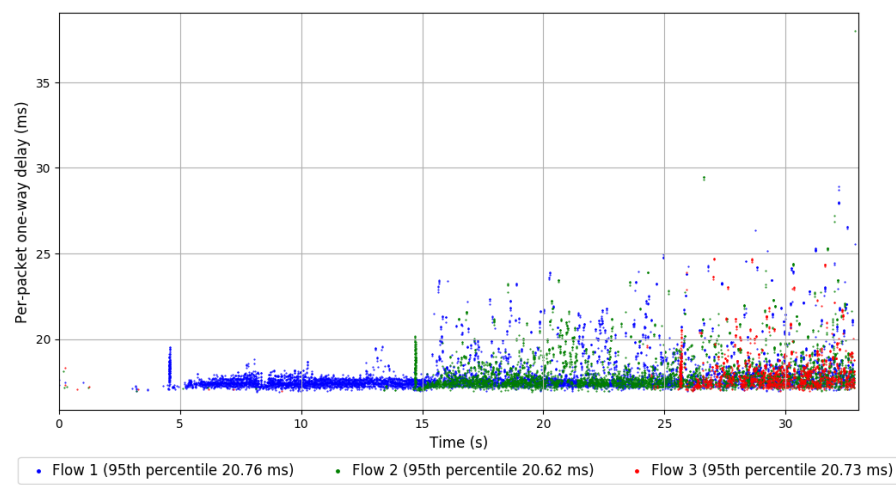
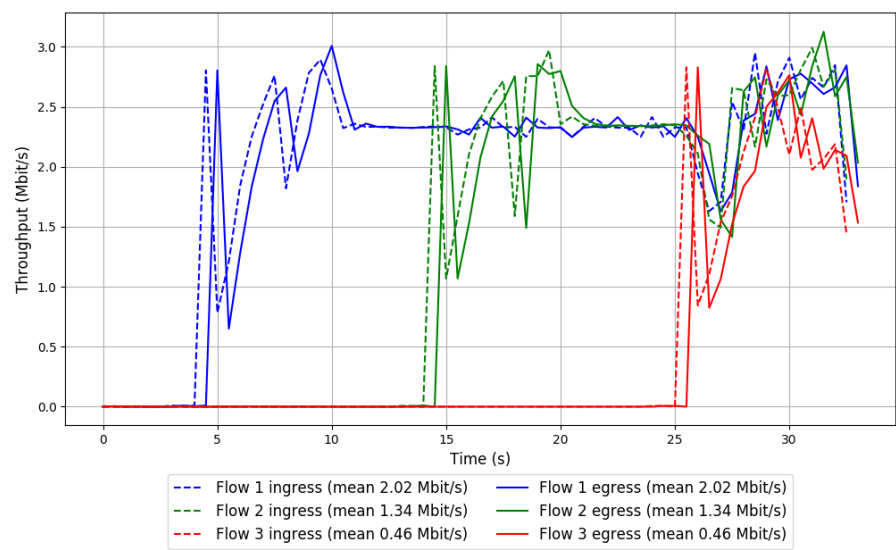
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 20.727 ms

Loss rate: 0.12%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-24 15:29:07

End at: 2018-07-24 15:29:37

Local clock offset: 1.529 ms

Remote clock offset: 5.752 ms

Below is generated by plot.py at 2018-07-24 18:04:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 20.555 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 20.482 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 20.728 ms

Loss rate: 0.00%

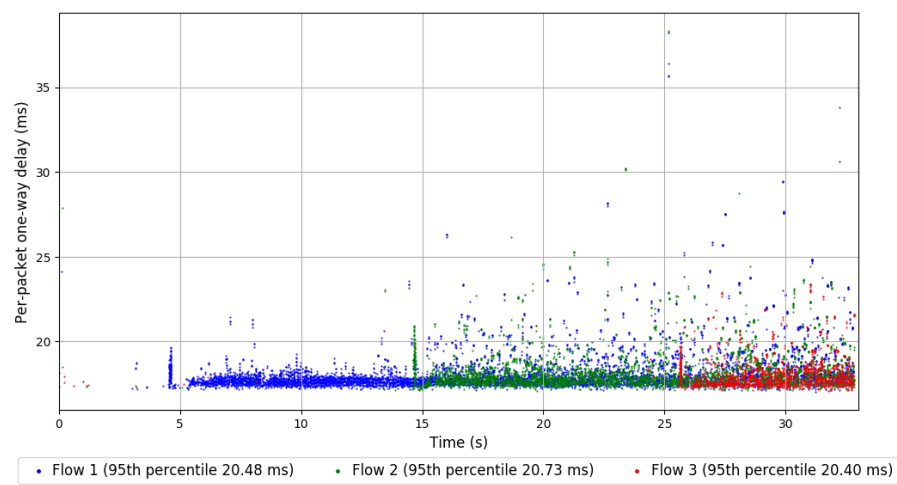
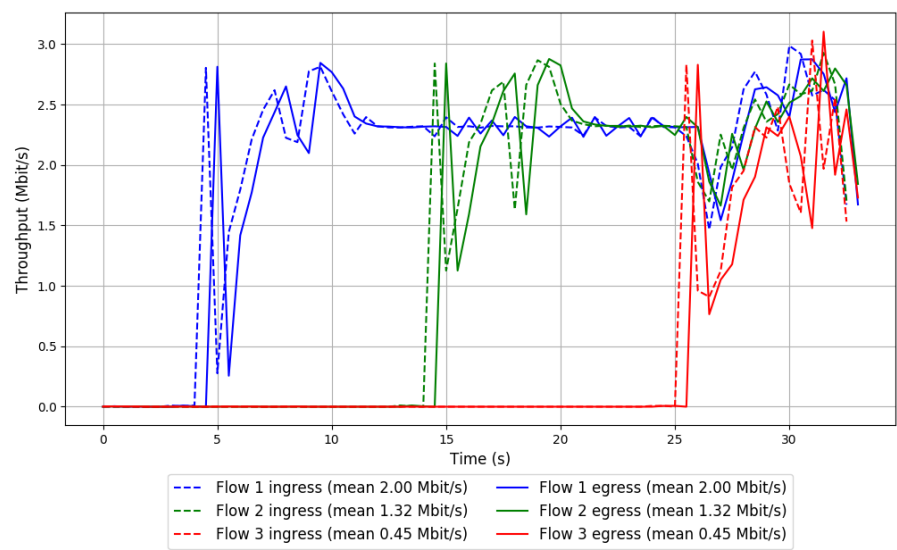
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 20.400 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-24 15:49:32

End at: 2018-07-24 15:50:02

Local clock offset: 2.549 ms

Remote clock offset: 15.16 ms

Below is generated by plot.py at 2018-07-24 18:04:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 26.934 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 26.823 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 26.595 ms

Loss rate: 0.05%

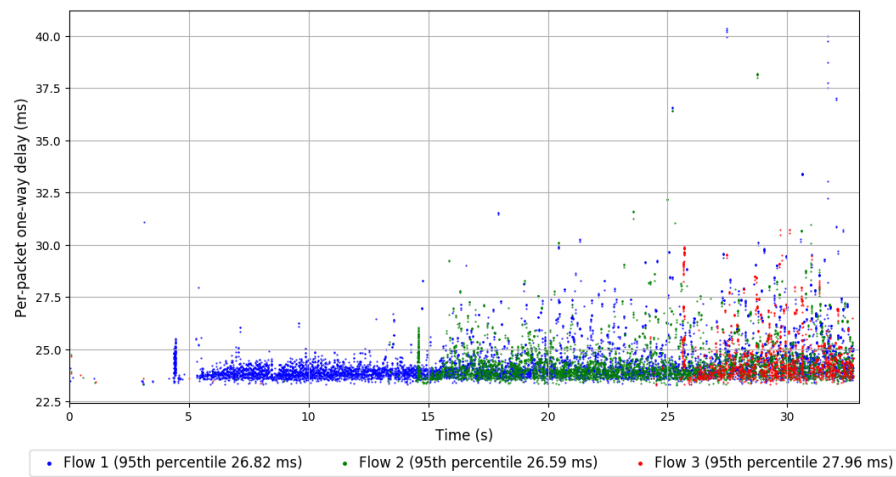
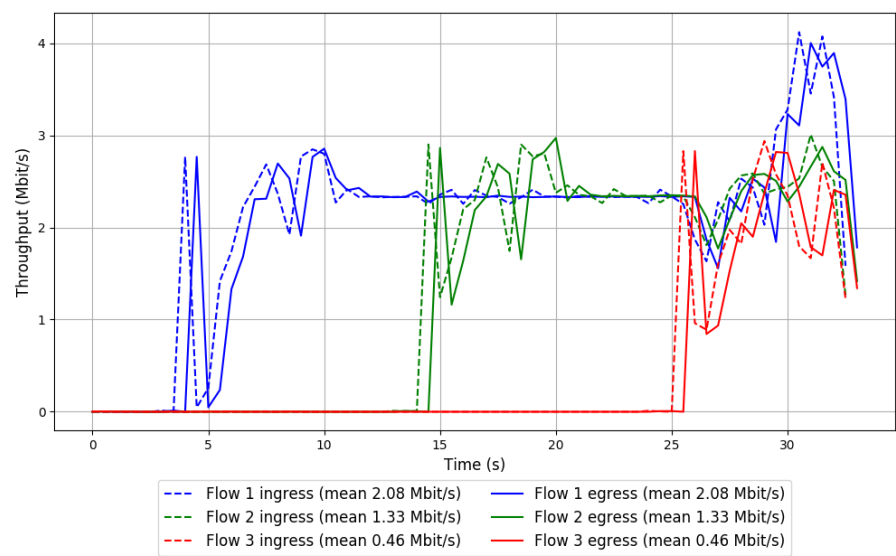
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 27.965 ms

Loss rate: 0.13%

Run 5: Report of WebRTC media — Data Link

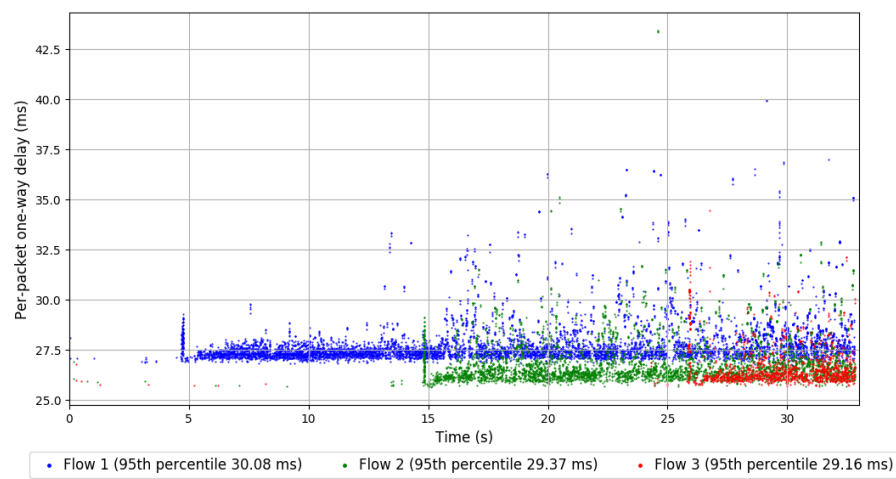
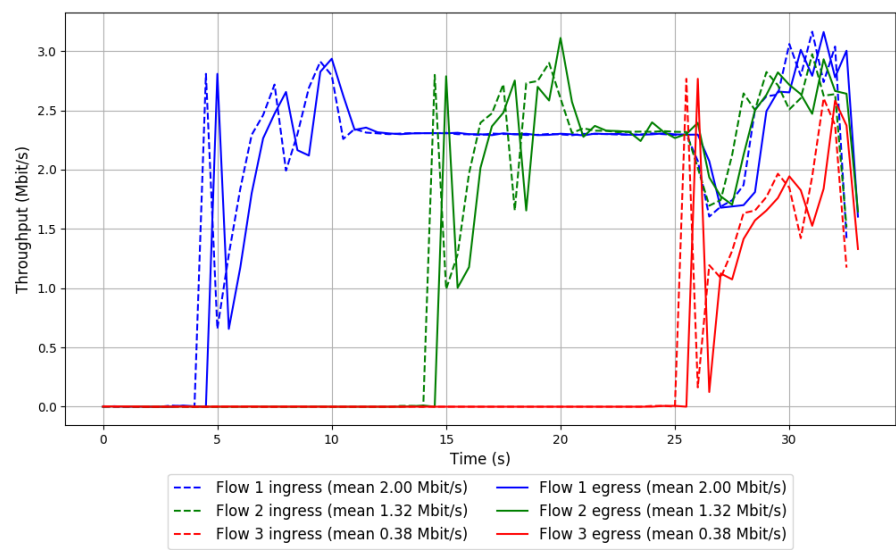


Run 6: Statistics of WebRTC media

Start at: 2018-07-24 16:09:39
End at: 2018-07-24 16:10:09
Local clock offset: 1.692 ms
Remote clock offset: 18.191 ms

Below is generated by plot.py at 2018-07-24 18:04:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 29.643 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 30.084 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 29.372 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 29.156 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

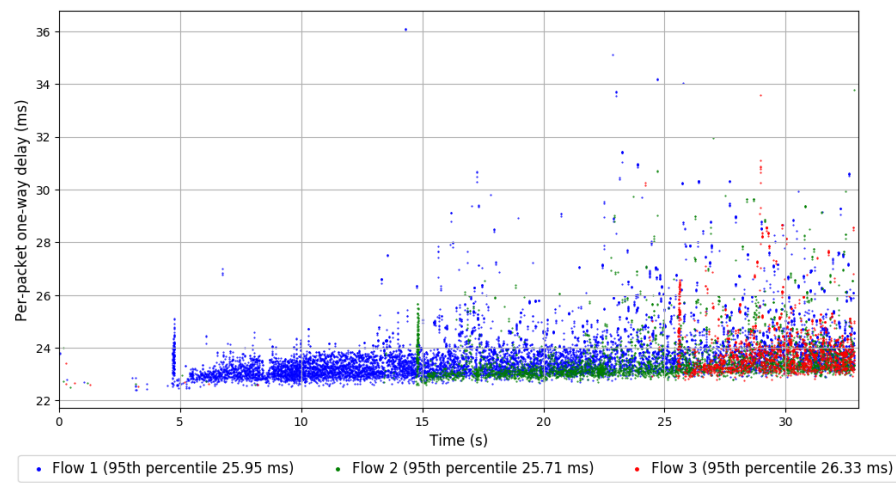
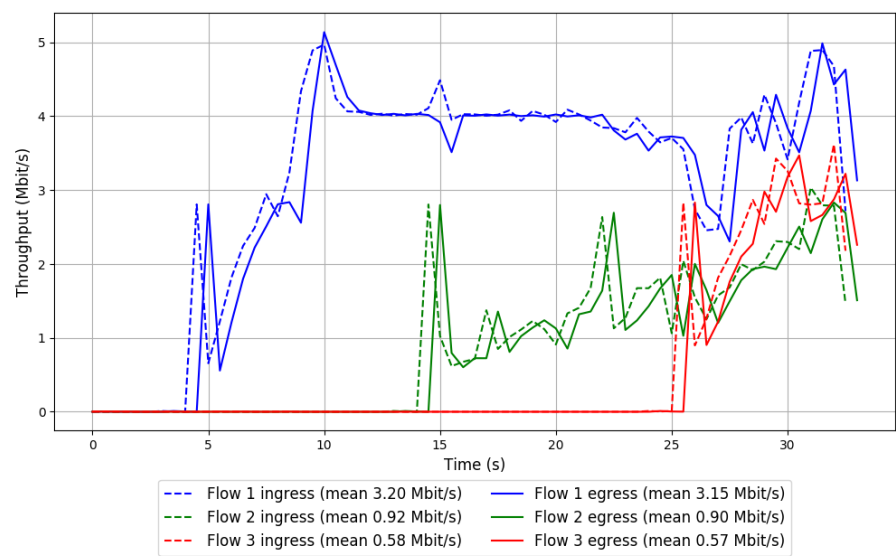


Run 7: Statistics of WebRTC media

Start at: 2018-07-24 16:29:38
End at: 2018-07-24 16:30:08
Local clock offset: 1.535 ms
Remote clock offset: 16.484 ms

Below is generated by plot.py at 2018-07-24 18:04:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.61 Mbit/s
95th percentile per-packet one-way delay: 25.928 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 3.15 Mbit/s
95th percentile per-packet one-way delay: 25.945 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 25.711 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 26.333 ms
Loss rate: 1.85%

Run 7: Report of WebRTC media — Data Link

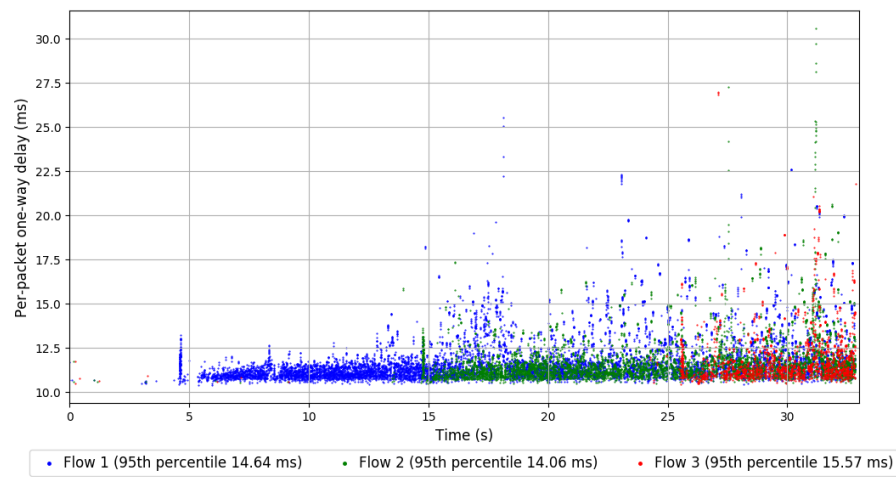
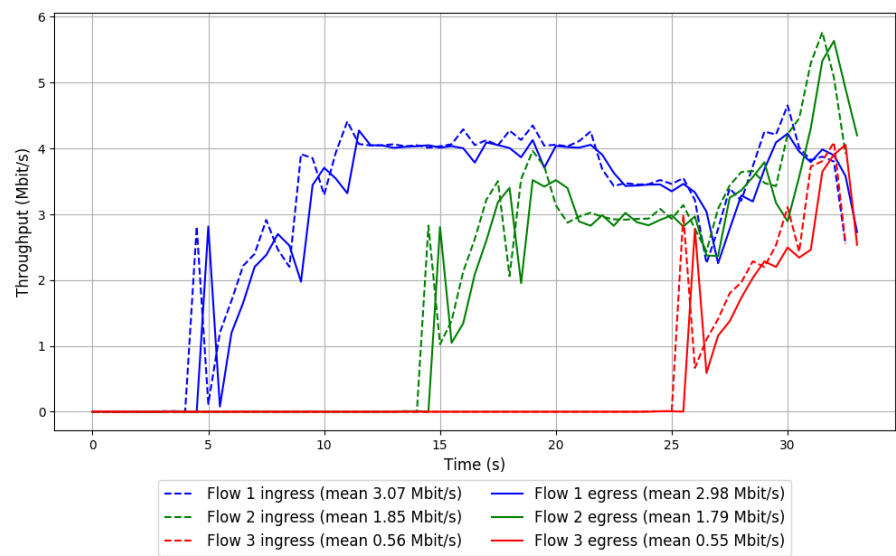


Run 8: Statistics of WebRTC media

Start at: 2018-07-24 16:49:56
End at: 2018-07-24 16:50:27
Local clock offset: -2.063 ms
Remote clock offset: -4.827 ms

Below is generated by plot.py at 2018-07-24 18:04:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 14.553 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 2.98 Mbit/s
95th percentile per-packet one-way delay: 14.644 ms
Loss rate: 2.79%
-- Flow 2:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 14.065 ms
Loss rate: 2.93%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 15.570 ms
Loss rate: 2.96%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-24 17:09:47

End at: 2018-07-24 17:10:17

Local clock offset: -1.44 ms

Remote clock offset: 6.286 ms

Below is generated by plot.py at 2018-07-24 18:04:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.39 Mbit/s

95th percentile per-packet one-way delay: 27.775 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 27.657 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 27.715 ms

Loss rate: 1.46%

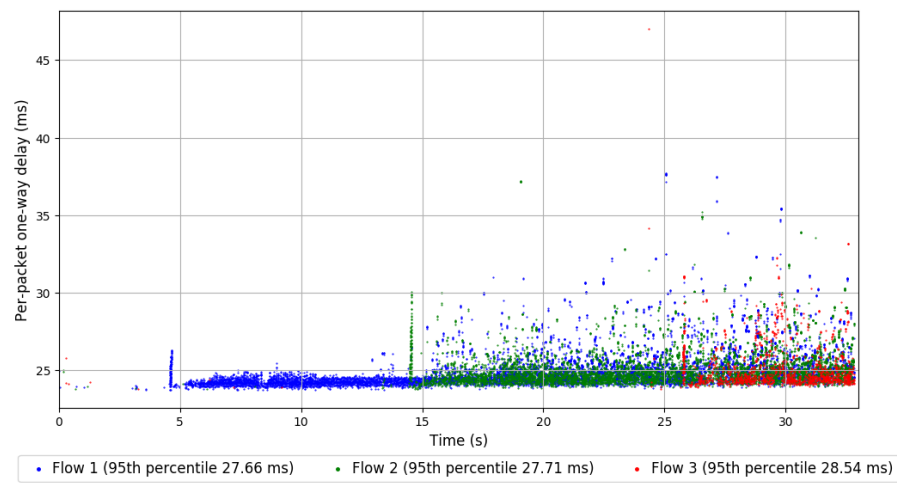
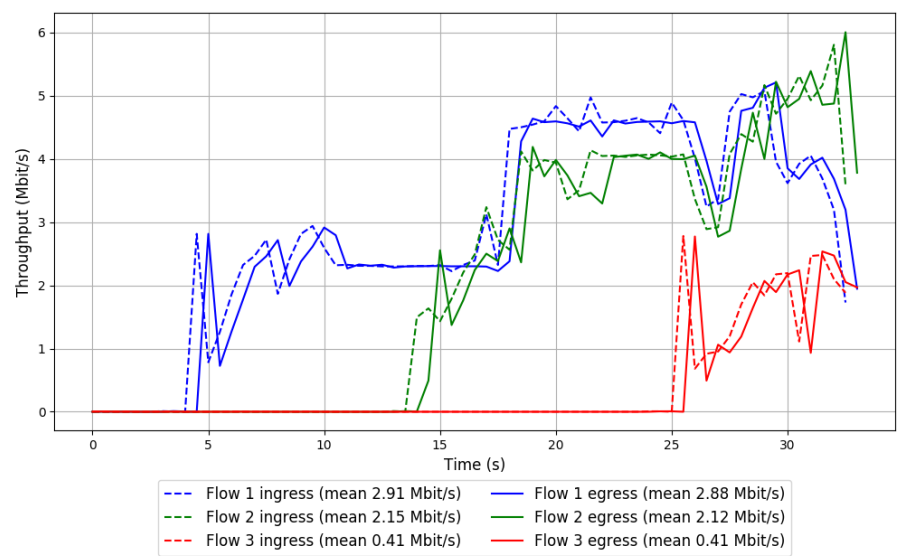
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 28.544 ms

Loss rate: 0.34%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-24 17:29:30

End at: 2018-07-24 17:30:00

Local clock offset: 0.373 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-07-24 18:04:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 21.451 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 21.689 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 21.077 ms

Loss rate: 0.77%

-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 21.780 ms

Loss rate: 0.46%

Run 10: Report of WebRTC media — Data Link

