

Pantheon Report

Generated at 2019-10-03 16:47:16 (UTC).

Data path: Mexico on **em1** (*remote*) → AWS California 2 on **ens5** (*local*).

Repeated the test of 24 congestion control schemes 5 times.

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

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

System info:

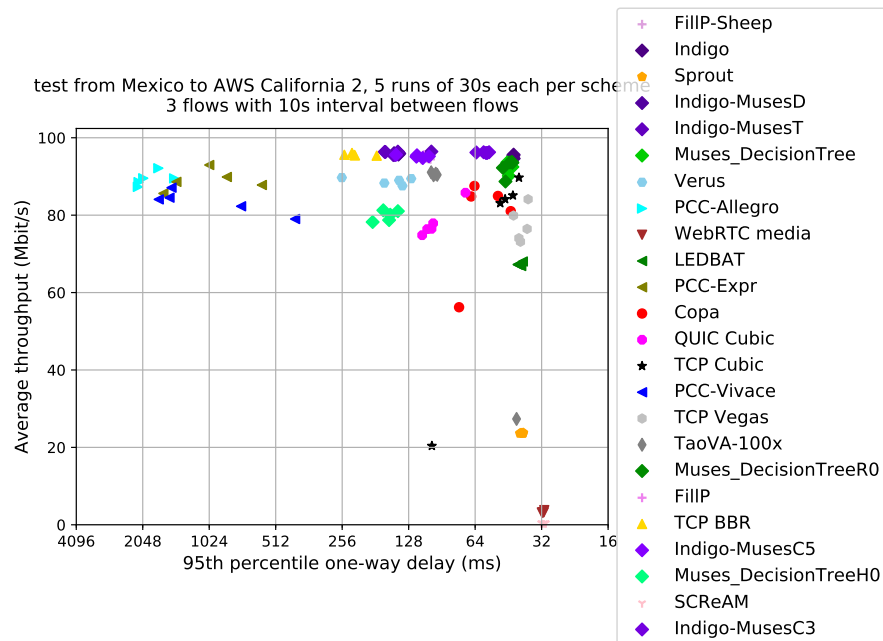
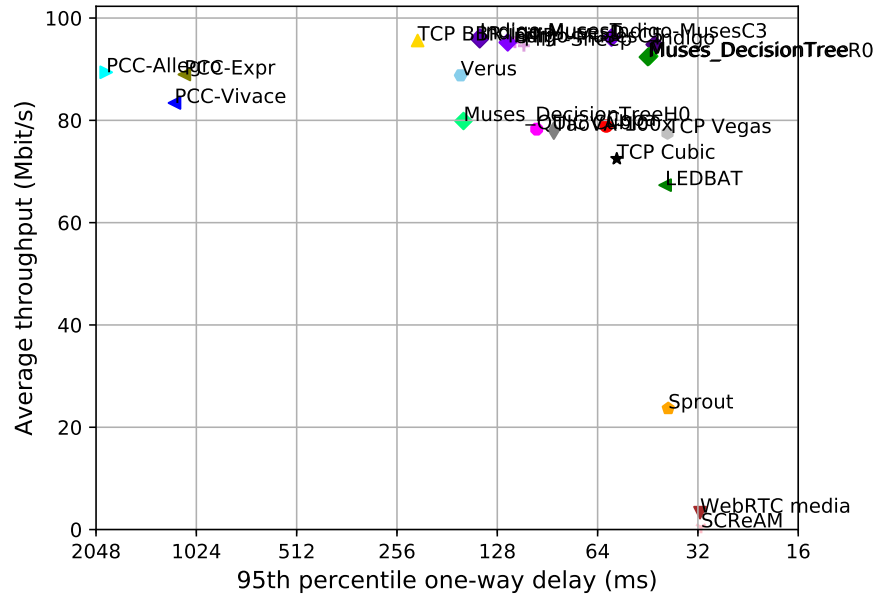
```
Linux 4.15.0-1050-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
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
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
```

```
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Mexico to AWS California 2, 5 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	5	56.81	39.98	36.80	202.55	295.43	274.31	2.68	3.48	3.59
Copa	5	41.22	39.89	33.66	76.13	46.09	55.01	0.27	0.20	0.73
TCP Cubic	5	41.70	29.91	32.88	57.58	56.90	53.29	0.23	0.39	0.69
FillP	5	58.94	37.63	34.07	99.86	121.67	112.45	0.62	2.71	2.55
FillP-Sheep	5	57.71	41.77	27.41	105.68	91.81	174.29	0.26	0.56	1.48
Indigo	5	60.37	39.45	25.30	43.26	43.71	42.34	0.19	0.30	0.72
Indigo-MusesC3	5	59.01	42.52	33.58	58.29	56.77	67.21	0.20	0.51	1.01
Indigo-MusesC5	5	58.75	41.07	33.85	112.75	112.73	120.90	1.46	3.29	5.91
Indigo-MusesD	5	60.61	41.79	28.47	145.64	121.92	77.75	5.70	8.34	4.01
Indigo-MusesT	5	60.28	42.14	29.66	107.08	162.89	214.17	1.95	4.06	6.93
LEDBAT	5	39.31	30.63	23.09	40.29	40.76	38.29	0.16	0.30	1.12
Muses_DecisionTree	5	53.75	43.67	29.90	43.49	44.76	53.46	0.11	0.31	0.79
Muses_DecisionTreeH0	5	49.26	32.18	28.80	170.49	159.42	116.64	0.31	0.35	0.89
Muses_DecisionTreeR0	5	55.87	39.12	32.82	43.19	50.62	51.69	0.15	0.30	0.75
PCC-Allegro	5	56.20	36.84	26.53	2023.94	1234.78	429.75	13.62	10.01	4.66
PCC-Expr	5	55.75	35.01	30.28	786.80	1070.78	367.53	43.10	27.53	8.93
QUIC Cubic	5	44.12	38.35	26.33	85.34	109.41	156.32	0.19	0.42	1.01
SCReAM	5	0.21	0.21	0.22	31.44	31.24	31.17	0.21	0.40	0.71
Sprout	5	11.95	11.91	11.60	39.15	39.21	39.72	0.24	0.35	0.67
TaoVA-100x	5	41.18	26.36	64.59	82.41	102.15	66.85	0.13	0.23	0.83
TCP Vegas	5	44.58	34.70	29.73	43.99	36.40	40.56	0.20	0.31	0.72
Verus	5	53.38	40.92	24.82	141.75	114.28	548.37	0.35	0.55	1.52
PCC-Vivace	5	53.91	33.77	21.39	1243.89	187.47	62.38	4.03	0.81	1.38
WebRTC media	5	1.85	1.04	0.43	31.50	31.65	31.59	0.24	0.40	0.59

Run 1: Statistics of TCP BBR

Start at: 2019-10-03 11:26:41

End at: 2019-10-03 11:27:11

Local clock offset: 0.39 ms

Remote clock offset: 7.293 ms

Below is generated by plot.py at 2019-10-03 16:32:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.37 Mbit/s

95th percentile per-packet one-way delay: 178.621 ms

Loss rate: 2.79%

-- Flow 1:

Average throughput: 58.52 Mbit/s

95th percentile per-packet one-way delay: 220.428 ms

Loss rate: 2.73%

-- Flow 2:

Average throughput: 39.53 Mbit/s

95th percentile per-packet one-way delay: 140.409 ms

Loss rate: 2.93%

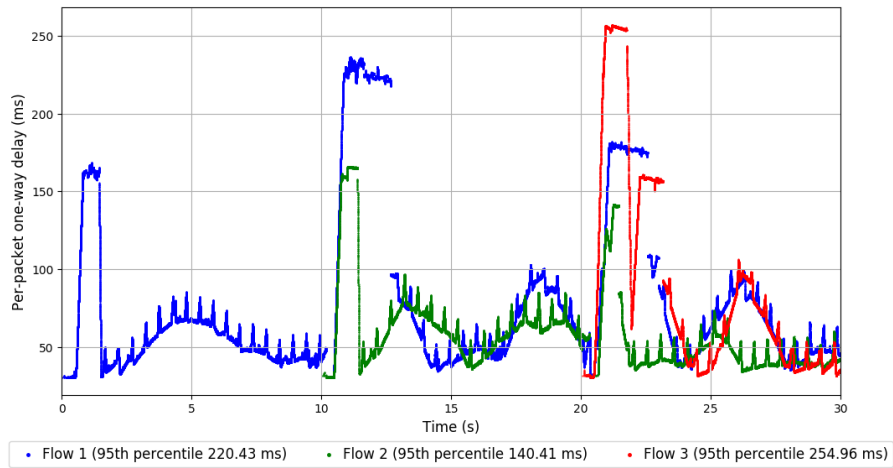
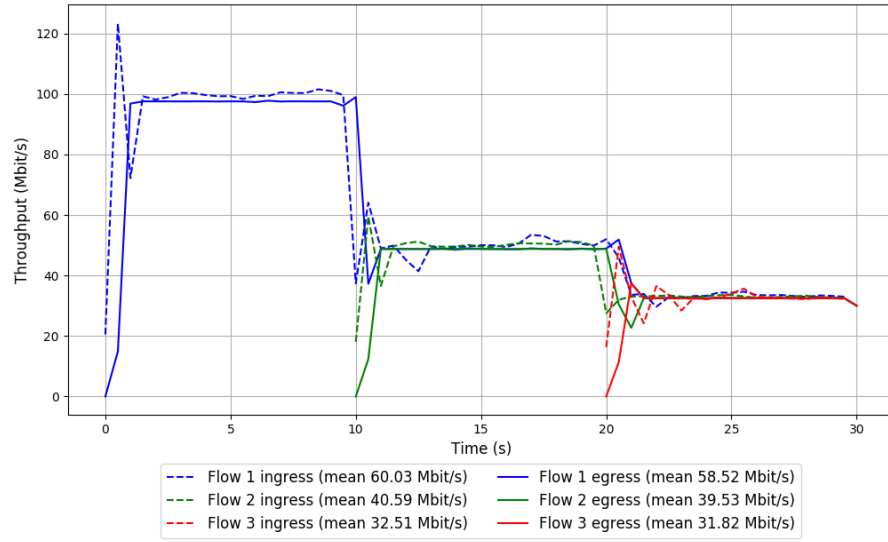
-- Flow 3:

Average throughput: 31.82 Mbit/s

95th percentile per-packet one-way delay: 254.961 ms

Loss rate: 2.77%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-10-03 12:17:51

End at: 2019-10-03 12:18:21

Local clock offset: 0.26 ms

Remote clock offset: 7.859 ms

Below is generated by plot.py at 2019-10-03 16:32:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.07 Mbit/s

95th percentile per-packet one-way delay: 231.090 ms

Loss rate: 3.02%

-- Flow 1:

Average throughput: 56.01 Mbit/s

95th percentile per-packet one-way delay: 221.447 ms

Loss rate: 2.85%

-- Flow 2:

Average throughput: 47.92 Mbit/s

95th percentile per-packet one-way delay: 352.614 ms

Loss rate: 2.95%

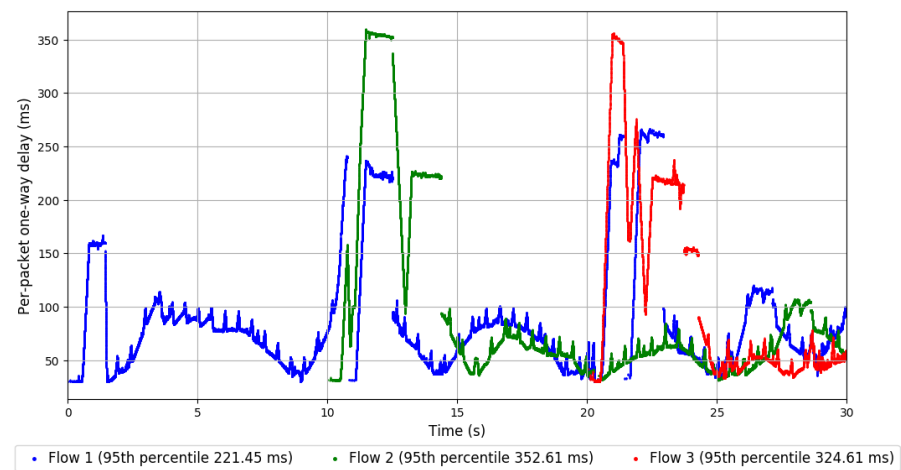
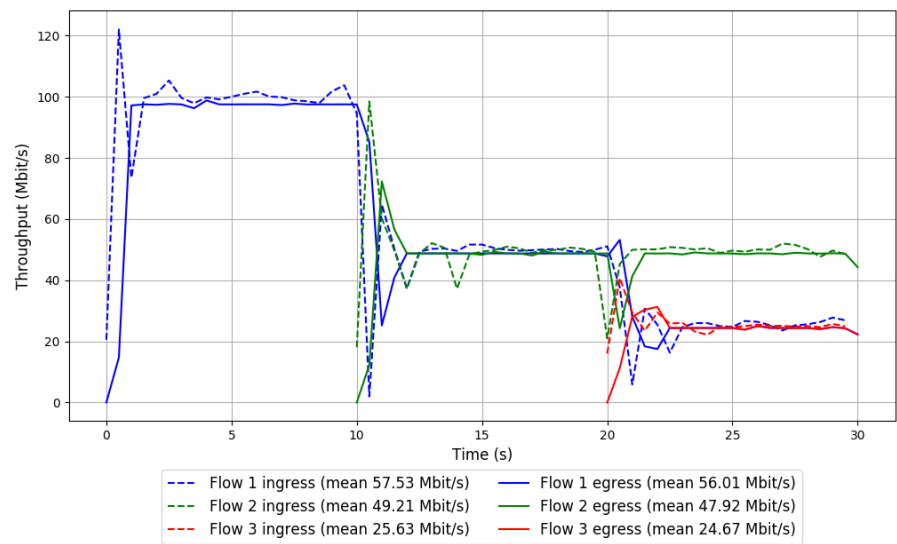
-- Flow 3:

Average throughput: 24.67 Mbit/s

95th percentile per-packet one-way delay: 324.606 ms

Loss rate: 4.45%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-10-03 13:16:46

End at: 2019-10-03 13:17:16

Local clock offset: 0.09 ms

Remote clock offset: 7.465 ms

Below is generated by plot.py at 2019-10-03 16:32:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.56 Mbit/s

95th percentile per-packet one-way delay: 225.618 ms

Loss rate: 3.25%

-- Flow 1:

Average throughput: 55.82 Mbit/s

95th percentile per-packet one-way delay: 215.668 ms

Loss rate: 3.13%

-- Flow 2:

Average throughput: 36.25 Mbit/s

95th percentile per-packet one-way delay: 292.600 ms

Loss rate: 3.35%

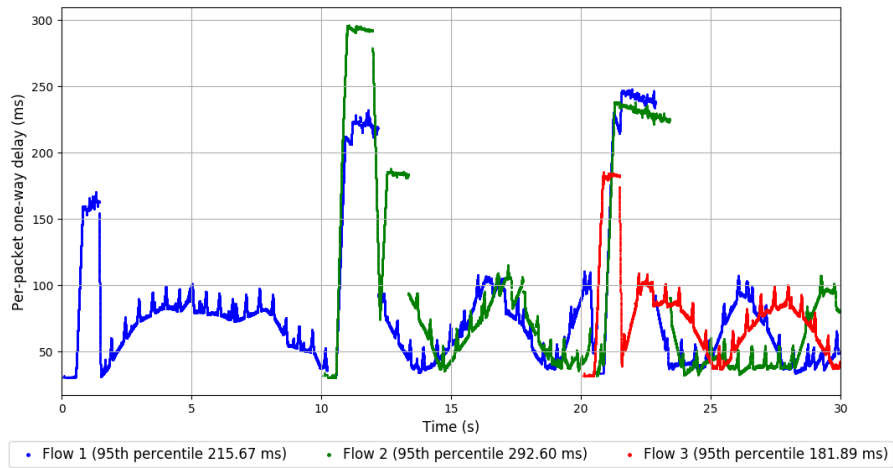
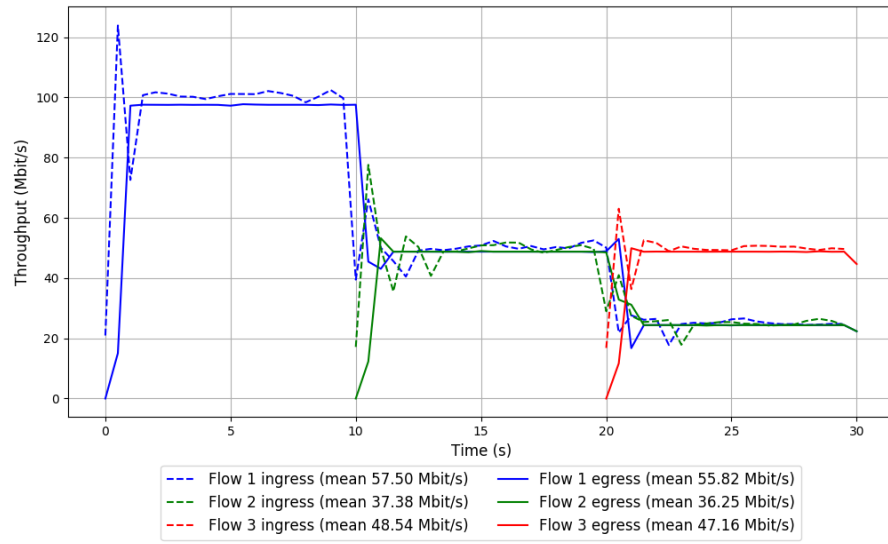
-- Flow 3:

Average throughput: 47.16 Mbit/s

95th percentile per-packet one-way delay: 181.892 ms

Loss rate: 3.48%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-10-03 14:32:18

End at: 2019-10-03 14:32:48

Local clock offset: 0.005 ms

Remote clock offset: 7.565 ms

Below is generated by plot.py at 2019-10-03 16:32:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.60 Mbit/s

95th percentile per-packet one-way delay: 250.272 ms

Loss rate: 3.03%

-- Flow 1:

Average throughput: 55.49 Mbit/s

95th percentile per-packet one-way delay: 168.052 ms

Loss rate: 2.33%

-- Flow 2:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 337.458 ms

Loss rate: 4.31%

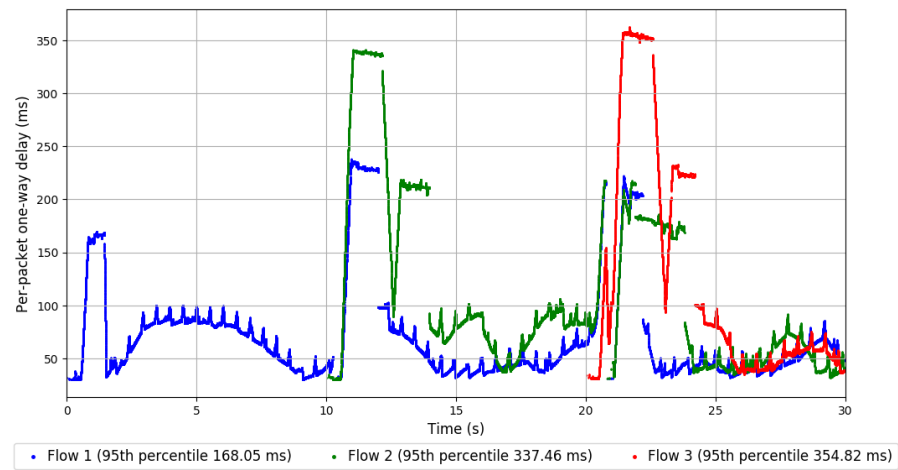
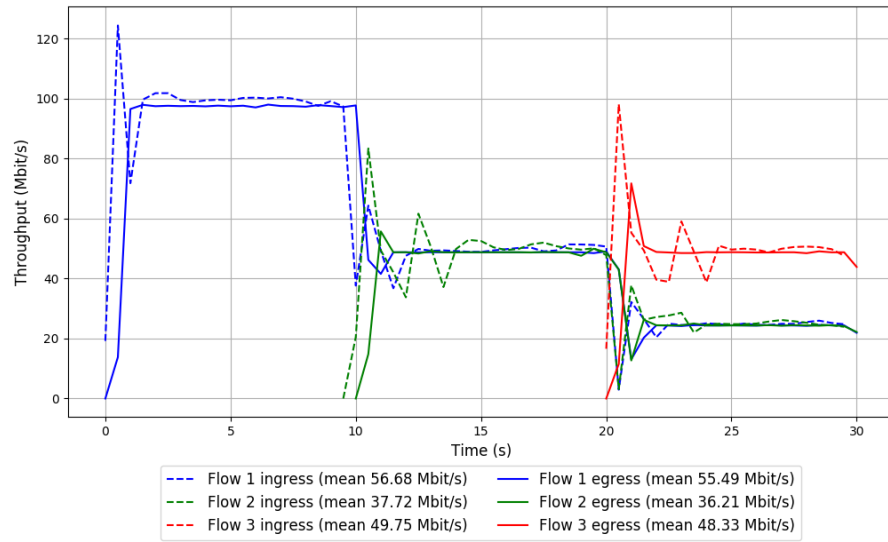
-- Flow 3:

Average throughput: 48.33 Mbit/s

95th percentile per-packet one-way delay: 354.820 ms

Loss rate: 3.53%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-10-03 15:55:28

End at: 2019-10-03 15:55:58

Local clock offset: -0.113 ms

Remote clock offset: 6.776 ms

Below is generated by plot.py at 2019-10-03 16:32:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.43 Mbit/s

95th percentile per-packet one-way delay: 224.077 ms

Loss rate: 2.93%

-- Flow 1:

Average throughput: 58.21 Mbit/s

95th percentile per-packet one-way delay: 187.149 ms

Loss rate: 2.34%

-- Flow 2:

Average throughput: 39.97 Mbit/s

95th percentile per-packet one-way delay: 354.093 ms

Loss rate: 3.88%

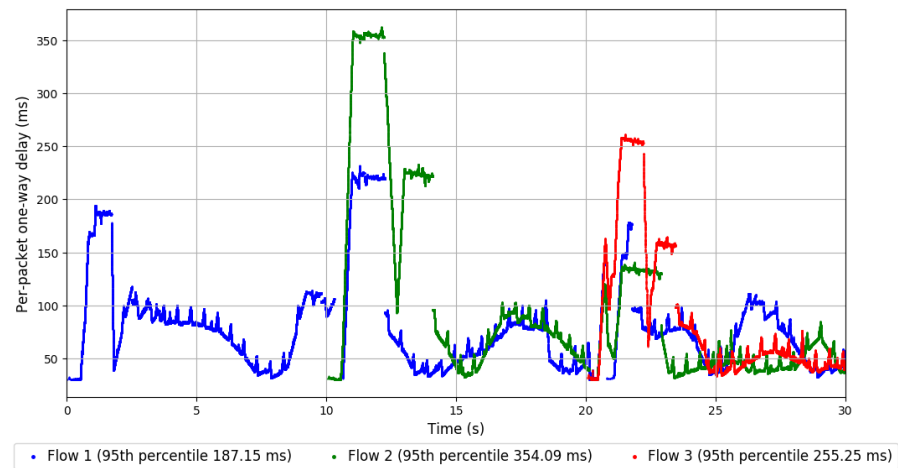
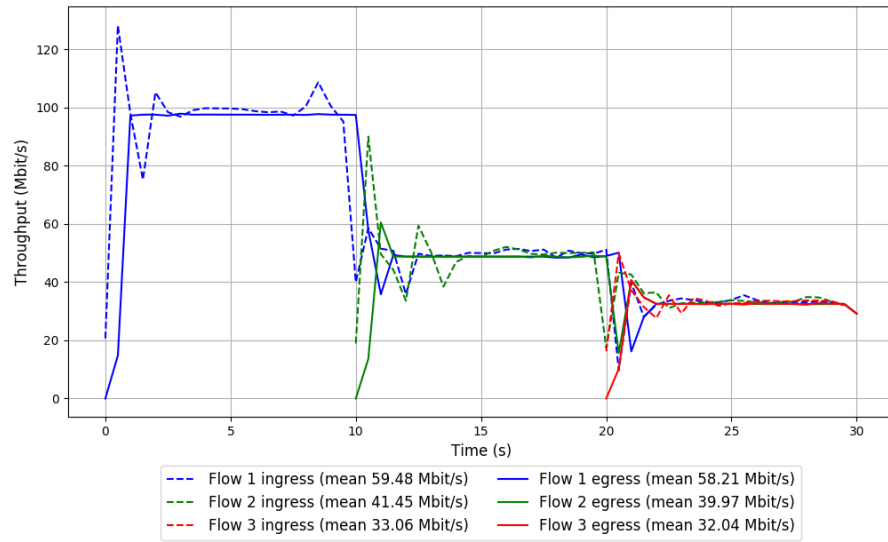
-- Flow 3:

Average throughput: 32.04 Mbit/s

95th percentile per-packet one-way delay: 255.254 ms

Loss rate: 3.72%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-10-03 11:47:40

End at: 2019-10-03 11:48:10

Local clock offset: 0.349 ms

Remote clock offset: 8.045 ms

Below is generated by plot.py at 2019-10-03 16:33:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.83 Mbit/s

95th percentile per-packet one-way delay: 66.724 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 47.12 Mbit/s

95th percentile per-packet one-way delay: 102.995 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 41.84 Mbit/s

95th percentile per-packet one-way delay: 46.582 ms

Loss rate: 0.21%

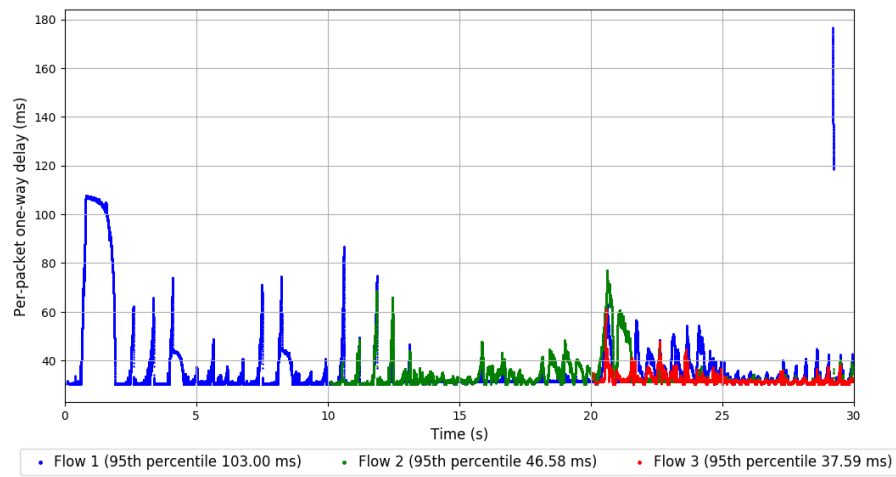
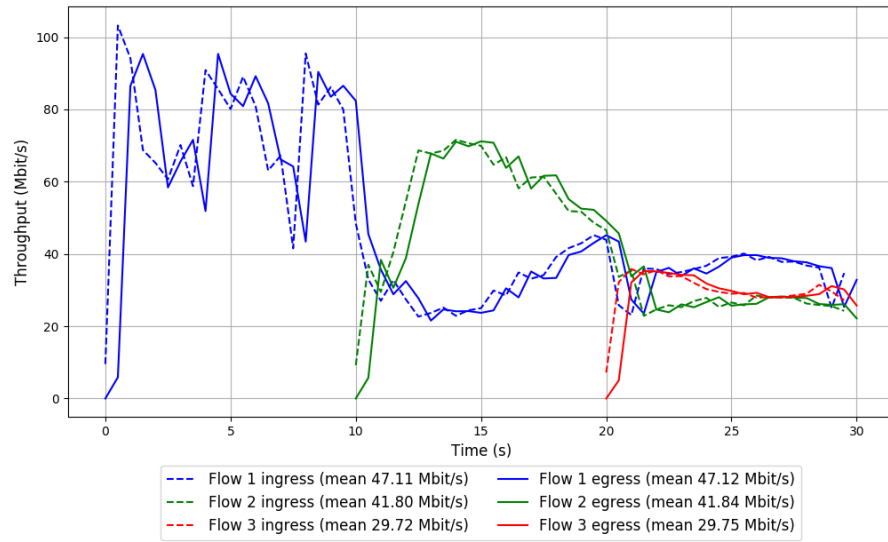
-- Flow 3:

Average throughput: 29.75 Mbit/s

95th percentile per-packet one-way delay: 37.594 ms

Loss rate: 0.53%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-10-03 12:41:40

End at: 2019-10-03 12:42:10

Local clock offset: 0.243 ms

Remote clock offset: 7.659 ms

Below is generated by plot.py at 2019-10-03 16:33:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.54 Mbit/s

95th percentile per-packet one-way delay: 64.467 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 52.35 Mbit/s

95th percentile per-packet one-way delay: 98.073 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 33.69 Mbit/s

95th percentile per-packet one-way delay: 42.210 ms

Loss rate: 0.10%

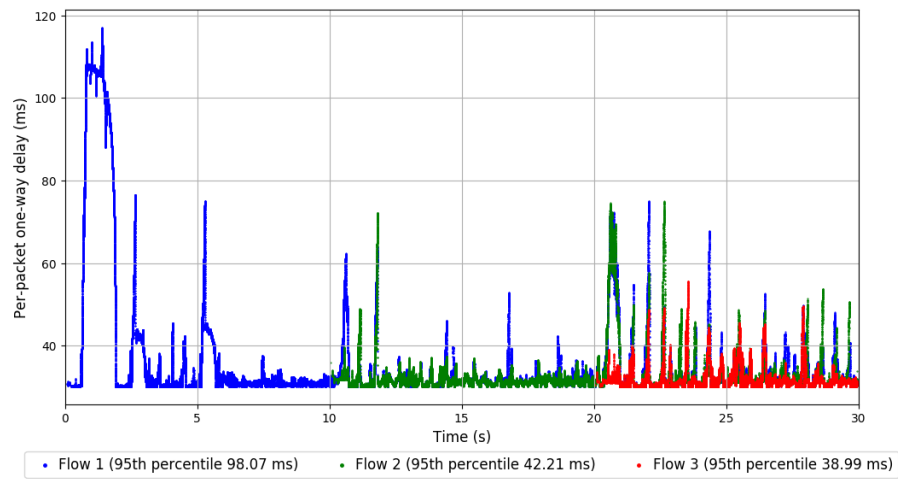
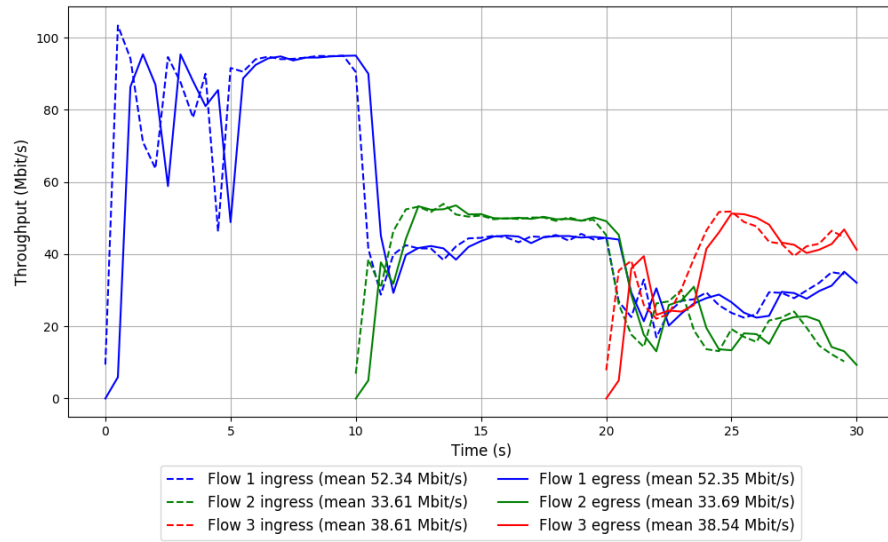
-- Flow 3:

Average throughput: 38.54 Mbit/s

95th percentile per-packet one-way delay: 38.994 ms

Loss rate: 0.82%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-10-03 13:47:17

End at: 2019-10-03 13:47:47

Local clock offset: -0.096 ms

Remote clock offset: 7.558 ms

Below is generated by plot.py at 2019-10-03 16:33:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.21 Mbit/s

95th percentile per-packet one-way delay: 75.672 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 89.983 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 58.82 Mbit/s

95th percentile per-packet one-way delay: 53.160 ms

Loss rate: 0.28%

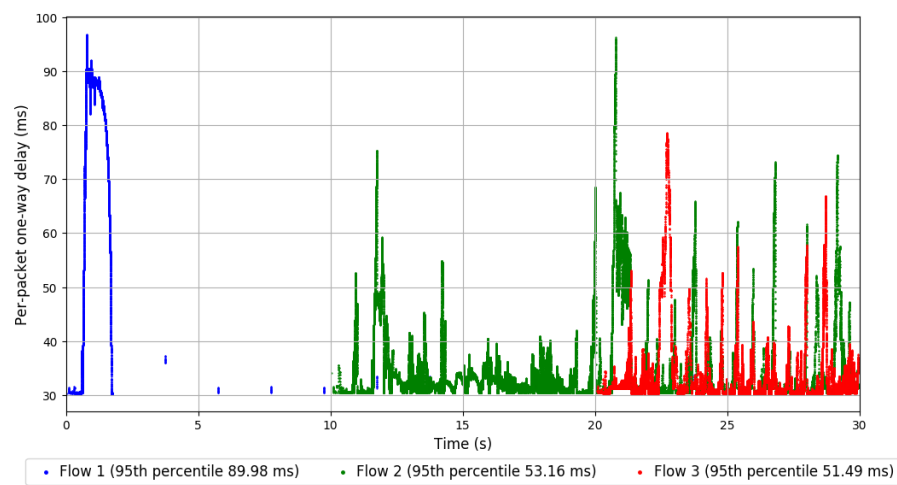
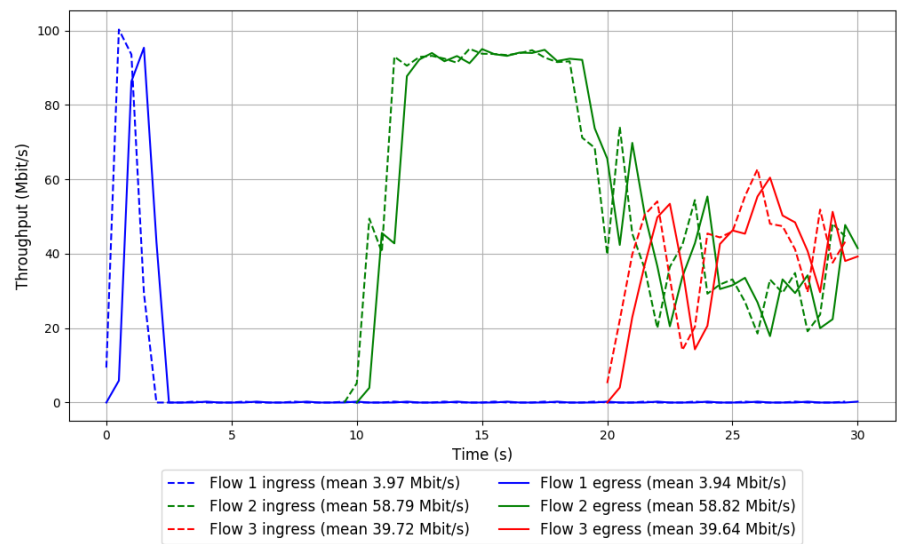
-- Flow 3:

Average throughput: 39.64 Mbit/s

95th percentile per-packet one-way delay: 51.493 ms

Loss rate: 0.82%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-10-03 15:11:03

End at: 2019-10-03 15:11:33

Local clock offset: -0.013 ms

Remote clock offset: 7.374 ms

Below is generated by plot.py at 2019-10-03 16:34:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.96 Mbit/s

95th percentile per-packet one-way delay: 50.441 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 53.47 Mbit/s

95th percentile per-packet one-way delay: 44.907 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 32.32 Mbit/s

95th percentile per-packet one-way delay: 43.542 ms

Loss rate: 0.22%

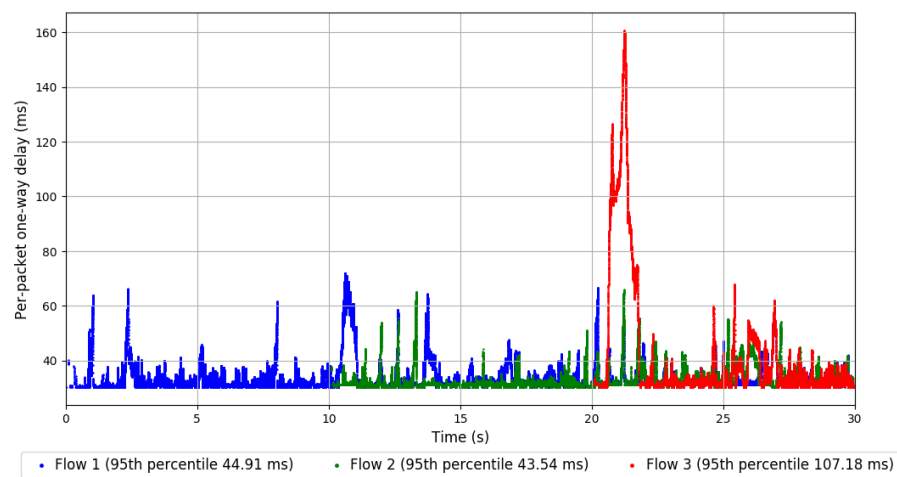
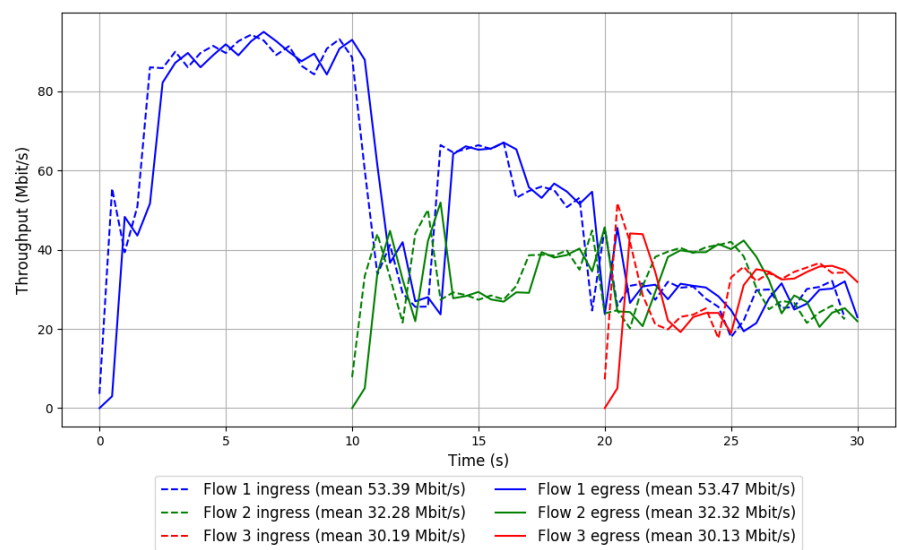
-- Flow 3:

Average throughput: 30.13 Mbit/s

95th percentile per-packet one-way delay: 107.182 ms

Loss rate: 0.83%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-10-03 16:24:01

End at: 2019-10-03 16:24:31

Local clock offset: 0.056 ms

Remote clock offset: 6.56 ms

Below is generated by plot.py at 2019-10-03 16:34:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.03 Mbit/s

95th percentile per-packet one-way delay: 44.159 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 49.20 Mbit/s

95th percentile per-packet one-way delay: 44.671 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 32.76 Mbit/s

95th percentile per-packet one-way delay: 44.969 ms

Loss rate: 0.18%

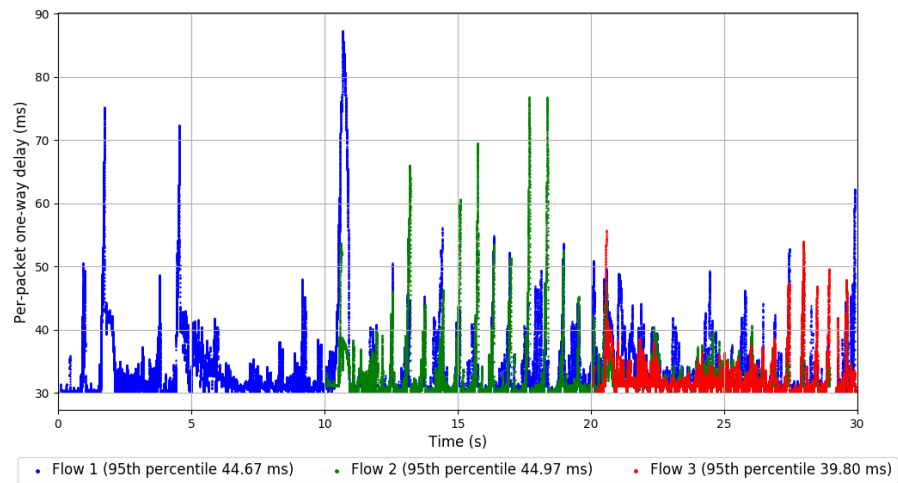
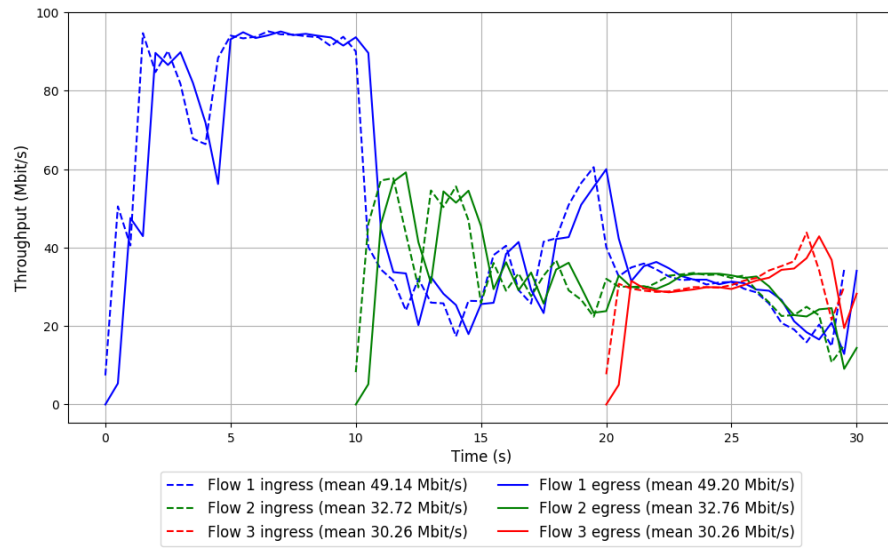
-- Flow 3:

Average throughput: 30.26 Mbit/s

95th percentile per-packet one-way delay: 39.805 ms

Loss rate: 0.64%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-10-03 11:15:38

End at: 2019-10-03 11:16:08

Local clock offset: 0.377 ms

Remote clock offset: 6.927 ms

Below is generated by plot.py at 2019-10-03 16:34:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.11 Mbit/s

95th percentile per-packet one-way delay: 49.267 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 45.67 Mbit/s

95th percentile per-packet one-way delay: 49.462 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 32.95 Mbit/s

95th percentile per-packet one-way delay: 47.590 ms

Loss rate: 0.26%

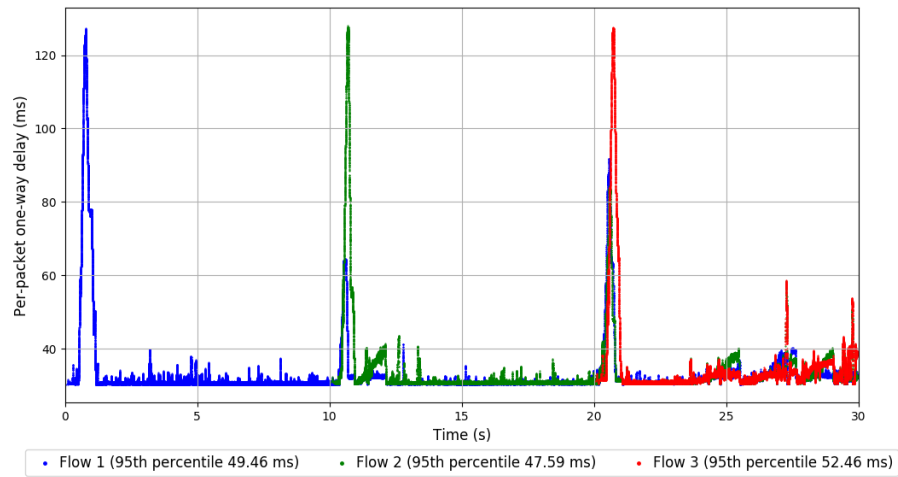
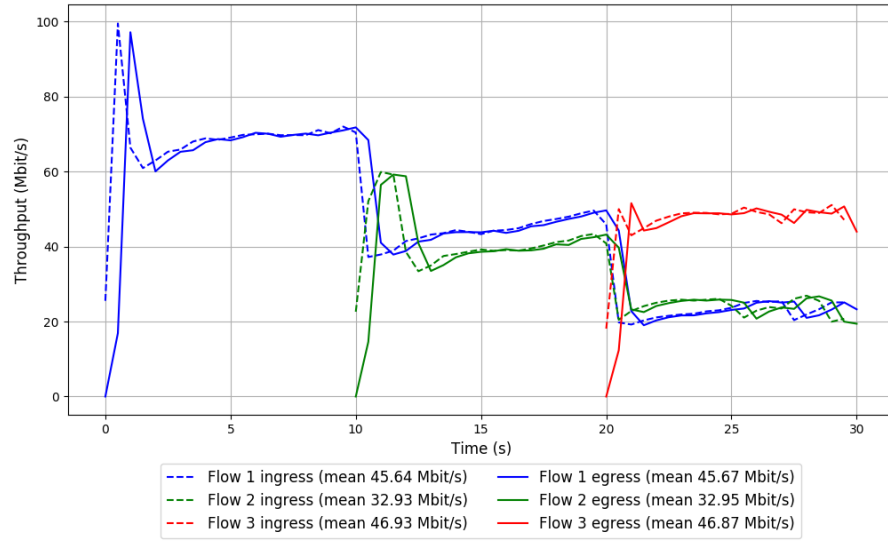
-- Flow 3:

Average throughput: 46.87 Mbit/s

95th percentile per-packet one-way delay: 52.458 ms

Loss rate: 0.78%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-10-03 12:06:20

End at: 2019-10-03 12:06:50

Local clock offset: 0.306 ms

Remote clock offset: 7.797 ms

Below is generated by plot.py at 2019-10-03 16:34:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.10 Mbit/s

95th percentile per-packet one-way delay: 43.180 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 48.35 Mbit/s

95th percentile per-packet one-way delay: 44.200 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 37.52 Mbit/s

95th percentile per-packet one-way delay: 41.731 ms

Loss rate: 0.32%

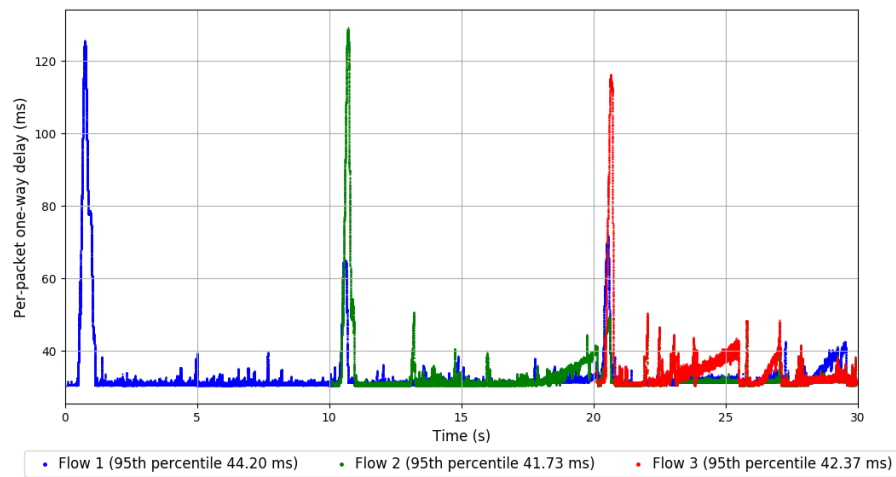
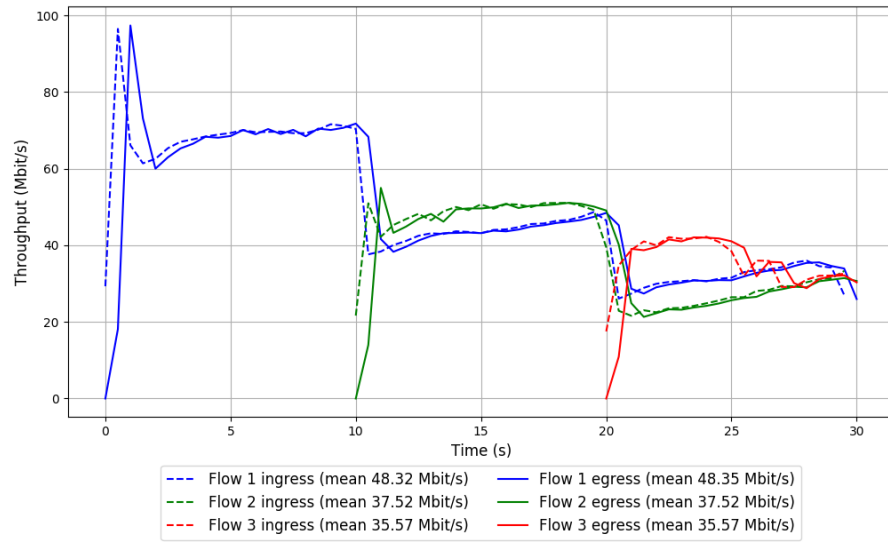
-- Flow 3:

Average throughput: 35.57 Mbit/s

95th percentile per-packet one-way delay: 42.373 ms

Loss rate: 0.63%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-10-03 13:04:06

End at: 2019-10-03 13:04:36

Local clock offset: 0.149 ms

Remote clock offset: 7.511 ms

Below is generated by plot.py at 2019-10-03 16:34:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.70 Mbit/s

95th percentile per-packet one-way delay: 40.534 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 58.14 Mbit/s

95th percentile per-packet one-way delay: 40.114 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 30.76 Mbit/s

95th percentile per-packet one-way delay: 38.555 ms

Loss rate: 0.38%

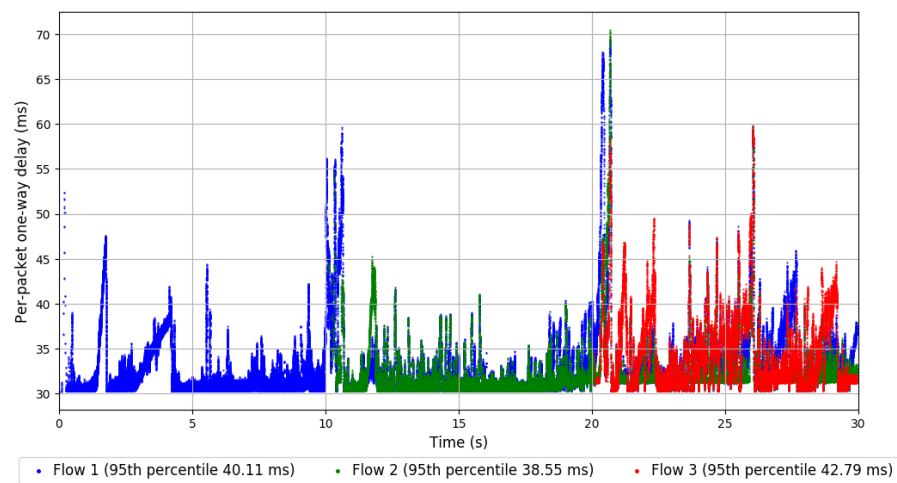
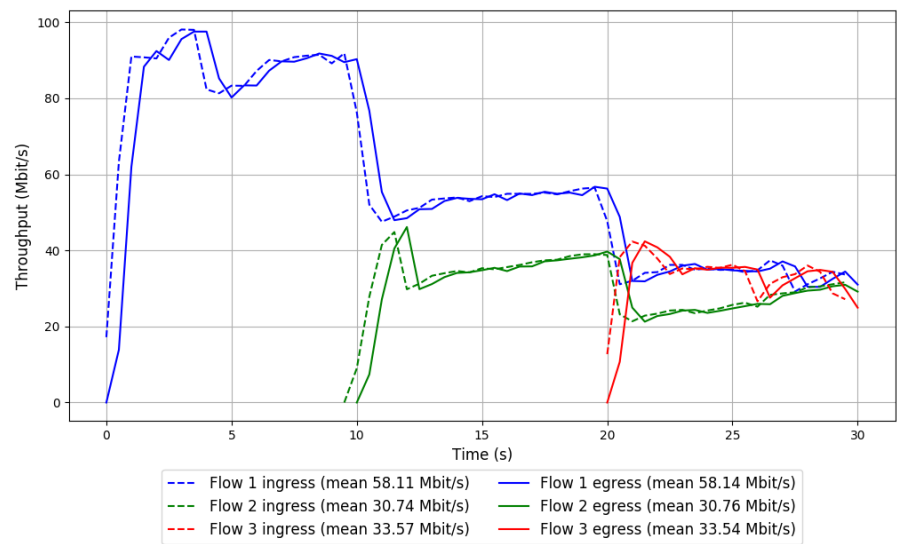
-- Flow 3:

Average throughput: 33.54 Mbit/s

95th percentile per-packet one-way delay: 42.793 ms

Loss rate: 0.75%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-10-03 14:16:58

End at: 2019-10-03 14:17:28

Local clock offset: 0.067 ms

Remote clock offset: 7.456 ms

Below is generated by plot.py at 2019-10-03 16:34:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.15 Mbit/s

95th percentile per-packet one-way delay: 46.828 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 47.69 Mbit/s

95th percentile per-packet one-way delay: 47.929 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 37.15 Mbit/s

95th percentile per-packet one-way delay: 45.837 ms

Loss rate: 0.33%

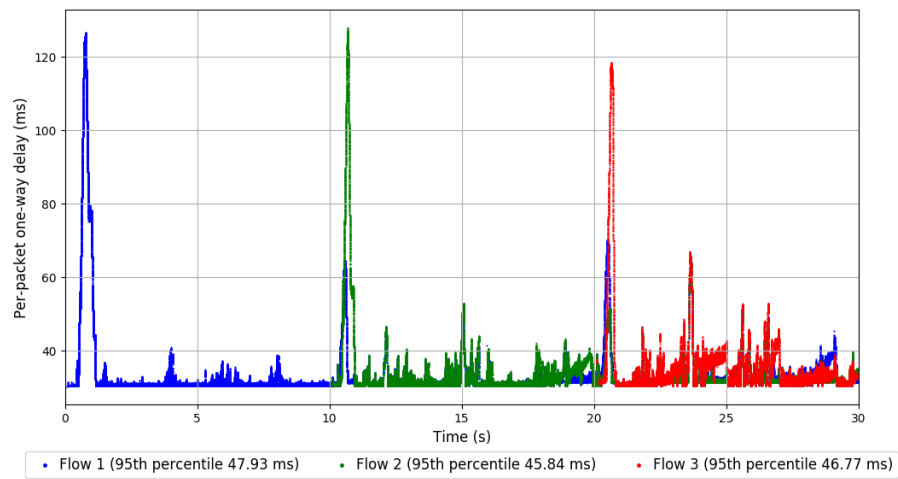
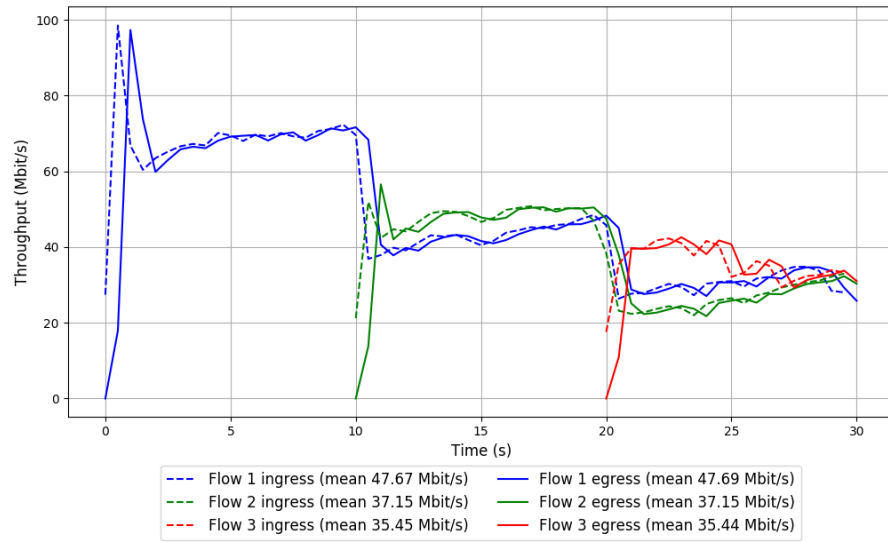
-- Flow 3:

Average throughput: 35.44 Mbit/s

95th percentile per-packet one-way delay: 46.765 ms

Loss rate: 0.66%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-10-03 15:46:26

End at: 2019-10-03 15:46:56

Local clock offset: -0.067 ms

Remote clock offset: 7.016 ms

Below is generated by plot.py at 2019-10-03 16:34:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.39 Mbit/s

95th percentile per-packet one-way delay: 100.485 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 8.67 Mbit/s

95th percentile per-packet one-way delay: 106.182 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 11.18 Mbit/s

95th percentile per-packet one-way delay: 110.811 ms

Loss rate: 0.68%

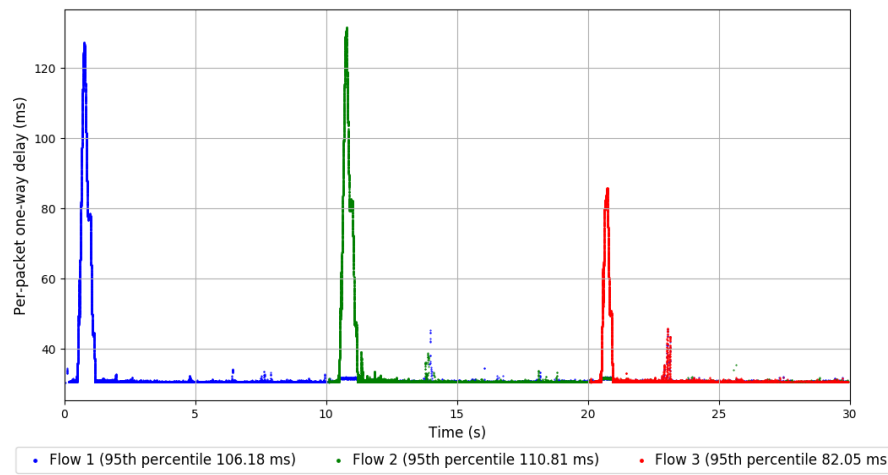
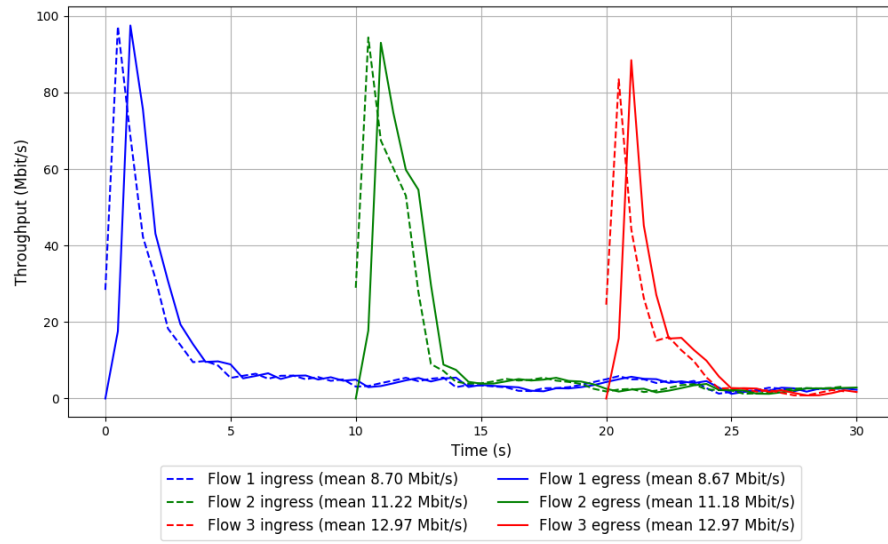
-- Flow 3:

Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 82.052 ms

Loss rate: 0.63%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-10-03 11:03:10

End at: 2019-10-03 11:03:40

Local clock offset: 0.444 ms

Remote clock offset: 6.899 ms

Below is generated by plot.py at 2019-10-03 16:34:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.85 Mbit/s

95th percentile per-packet one-way delay: 113.254 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 61.87 Mbit/s

95th percentile per-packet one-way delay: 76.280 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 37.57 Mbit/s

95th percentile per-packet one-way delay: 121.575 ms

Loss rate: 1.63%

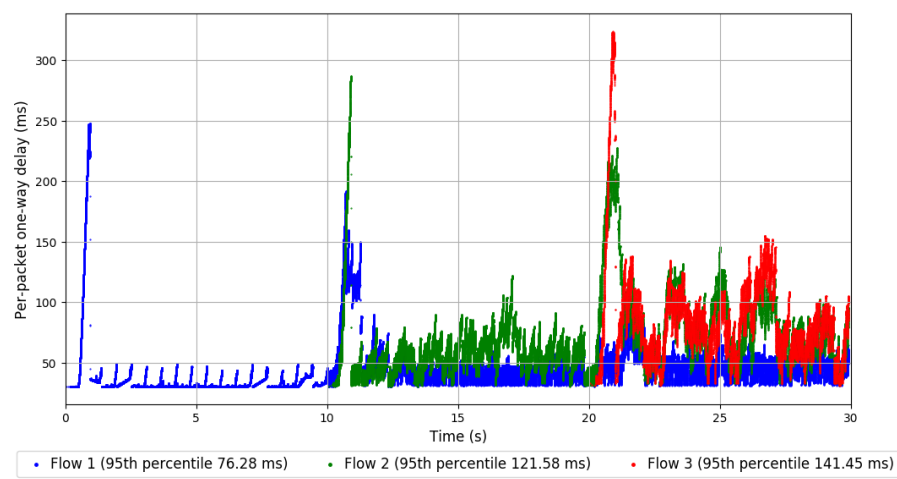
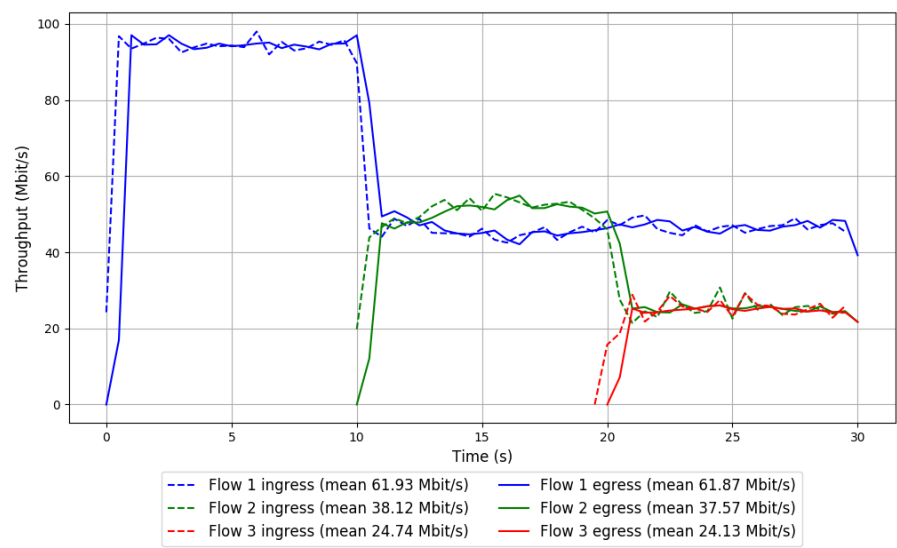
-- Flow 3:

Average throughput: 24.13 Mbit/s

95th percentile per-packet one-way delay: 141.450 ms

Loss rate: 3.08%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-10-03 11:53:54

End at: 2019-10-03 11:54:24

Local clock offset: 0.374 ms

Remote clock offset: 7.947 ms

Below is generated by plot.py at 2019-10-03 16:34:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.33 Mbit/s

95th percentile per-packet one-way delay: 110.539 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 63.19 Mbit/s

95th percentile per-packet one-way delay: 84.418 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 36.41 Mbit/s

95th percentile per-packet one-way delay: 124.911 ms

Loss rate: 2.39%

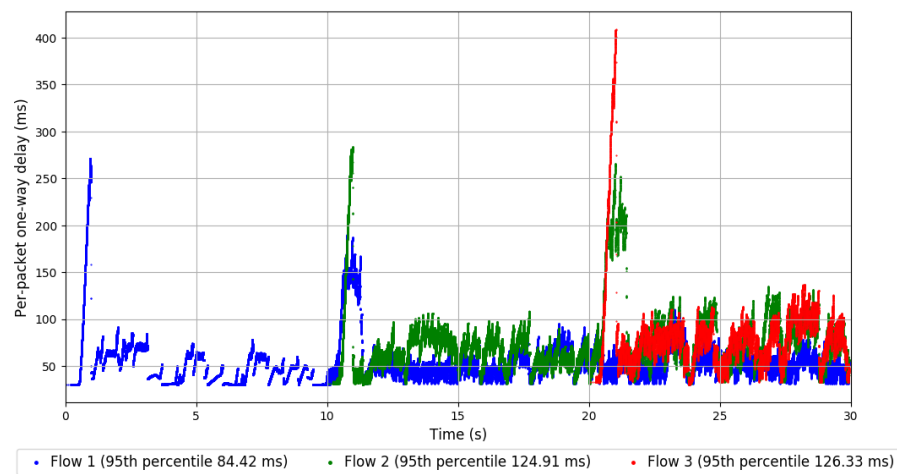
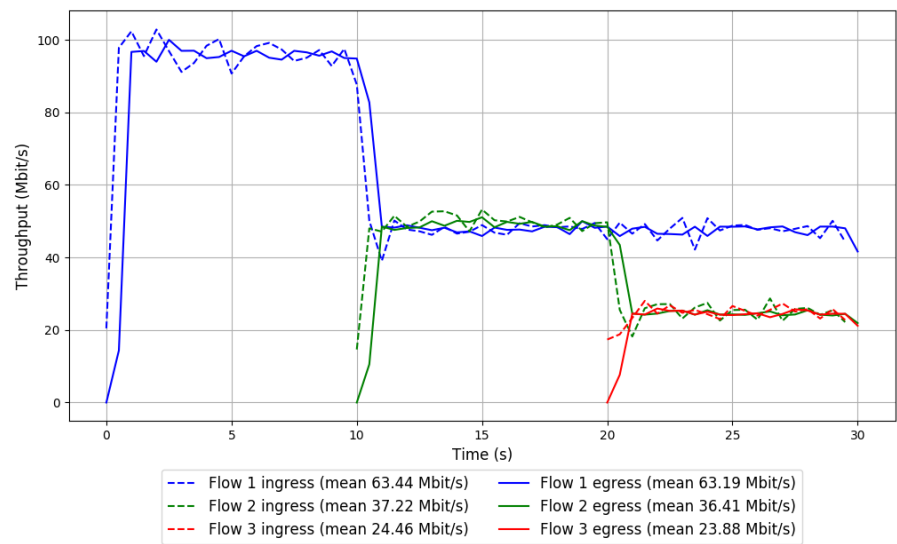
-- Flow 3:

Average throughput: 23.88 Mbit/s

95th percentile per-packet one-way delay: 126.332 ms

Loss rate: 3.02%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-10-03 12:50:21

End at: 2019-10-03 12:50:51

Local clock offset: 0.202 ms

Remote clock offset: 7.529 ms

Below is generated by plot.py at 2019-10-03 16:34:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.18 Mbit/s

95th percentile per-packet one-way delay: 114.530 ms

Loss rate: 2.16%

-- Flow 1:

Average throughput: 55.18 Mbit/s

95th percentile per-packet one-way delay: 109.928 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 38.02 Mbit/s

95th percentile per-packet one-way delay: 125.052 ms

Loss rate: 5.96%

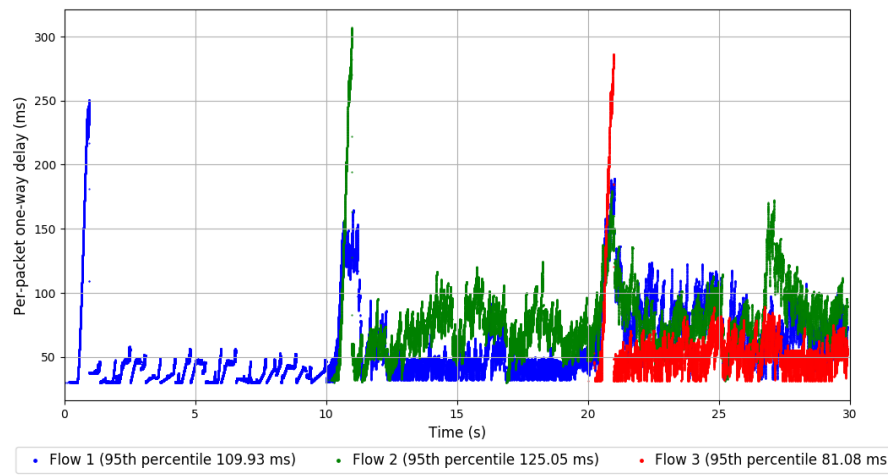
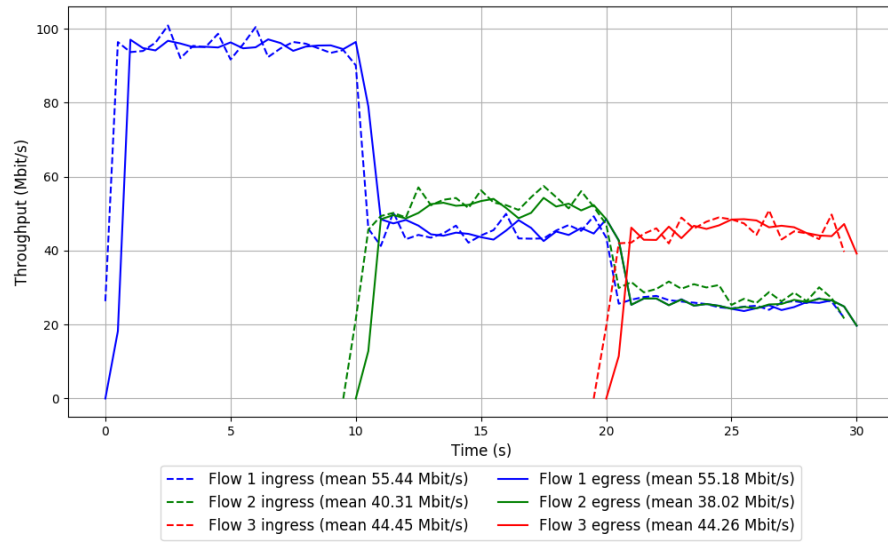
-- Flow 3:

Average throughput: 44.26 Mbit/s

95th percentile per-packet one-way delay: 81.080 ms

Loss rate: 0.91%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-10-03 13:57:24

End at: 2019-10-03 13:57:54

Local clock offset: -0.076 ms

Remote clock offset: 7.491 ms

Below is generated by plot.py at 2019-10-03 16:34:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.36 Mbit/s

95th percentile per-packet one-way delay: 118.956 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 55.80 Mbit/s

95th percentile per-packet one-way delay: 119.684 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 36.22 Mbit/s

95th percentile per-packet one-way delay: 123.032 ms

Loss rate: 2.18%

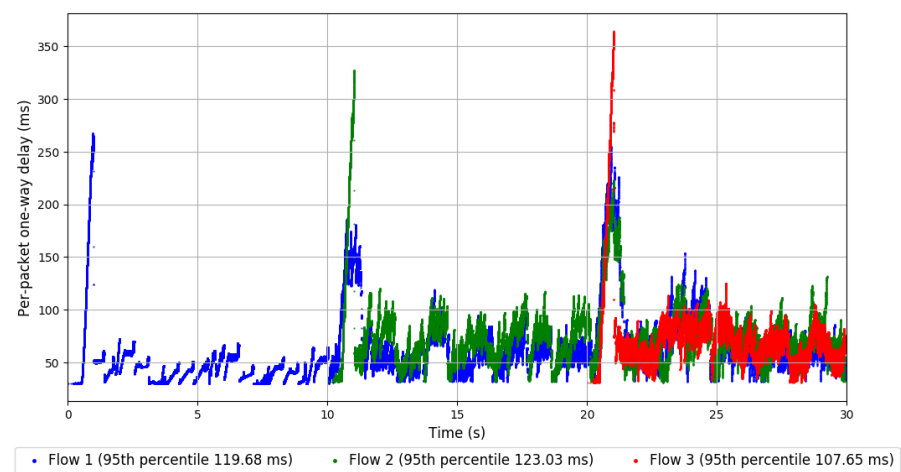
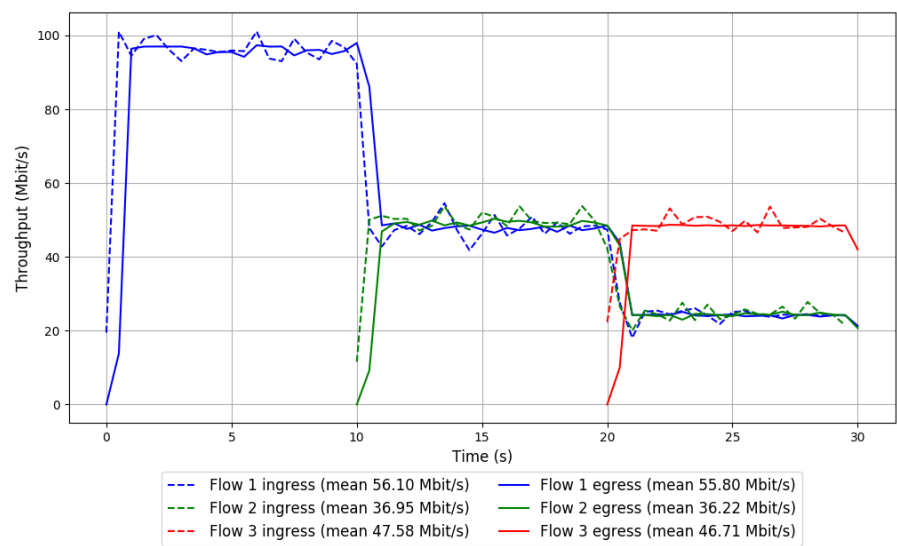
-- Flow 3:

Average throughput: 46.71 Mbit/s

95th percentile per-packet one-way delay: 107.650 ms

Loss rate: 2.46%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-10-03 15:21:56

End at: 2019-10-03 15:22:26

Local clock offset: -0.041 ms

Remote clock offset: 7.246 ms

Below is generated by plot.py at 2019-10-03 16:34:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 109.298 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 58.64 Mbit/s

95th percentile per-packet one-way delay: 108.984 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 39.94 Mbit/s

95th percentile per-packet one-way delay: 113.798 ms

Loss rate: 1.37%

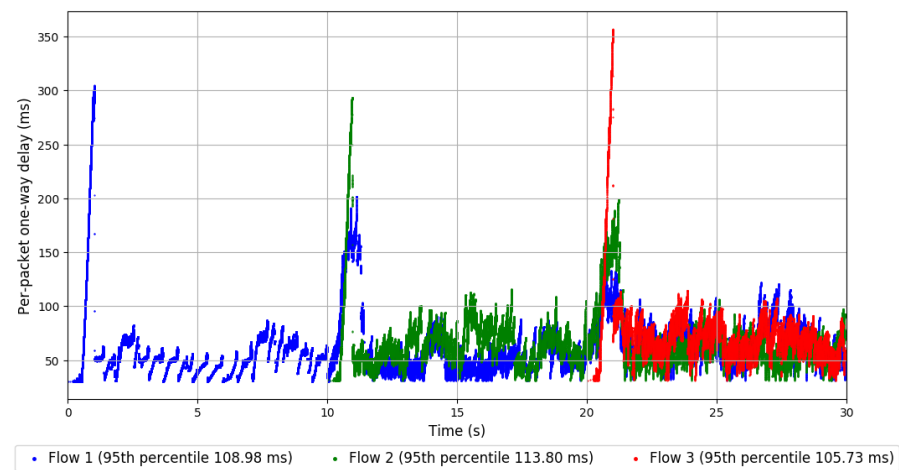
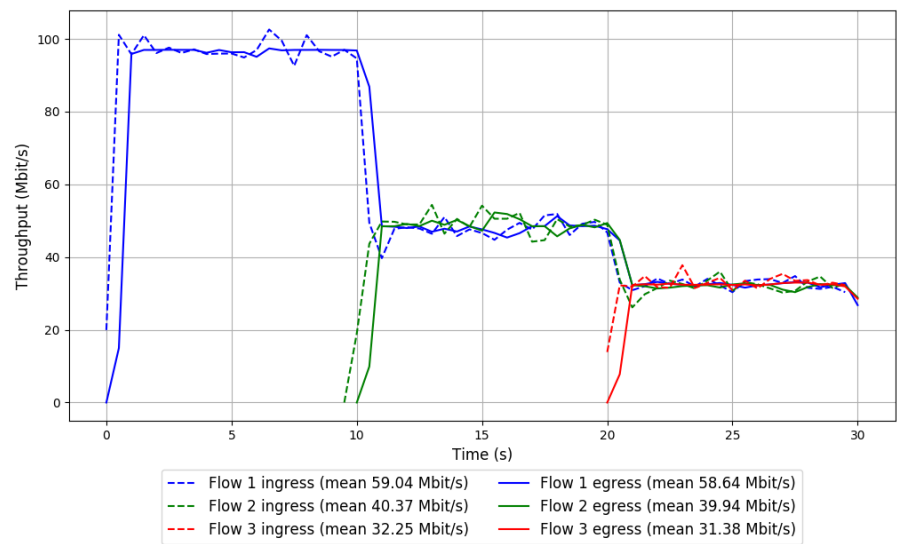
-- Flow 3:

Average throughput: 31.38 Mbit/s

95th percentile per-packet one-way delay: 105.726 ms

Loss rate: 3.29%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-10-03 11:50:23

End at: 2019-10-03 11:50:53

Local clock offset: 0.339 ms

Remote clock offset: 8.063 ms

Below is generated by plot.py at 2019-10-03 16:34:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.67 Mbit/s

95th percentile per-packet one-way delay: 105.345 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 57.72 Mbit/s

95th percentile per-packet one-way delay: 113.361 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 39.99 Mbit/s

95th percentile per-packet one-way delay: 90.777 ms

Loss rate: 0.59%

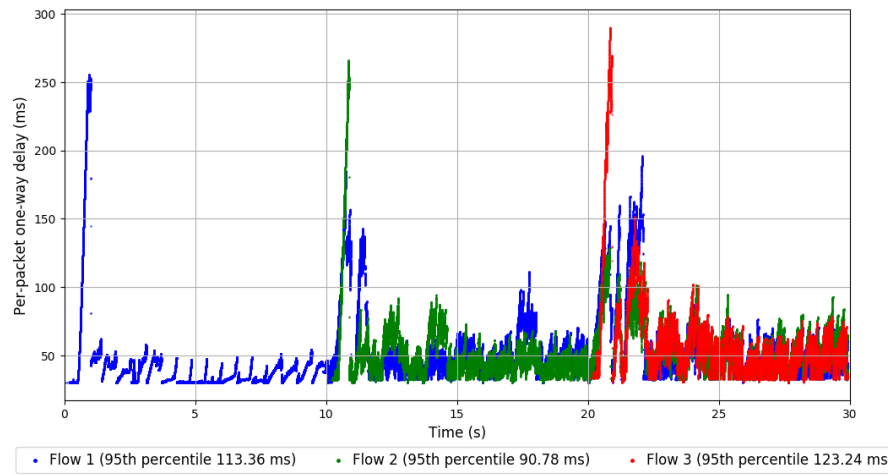
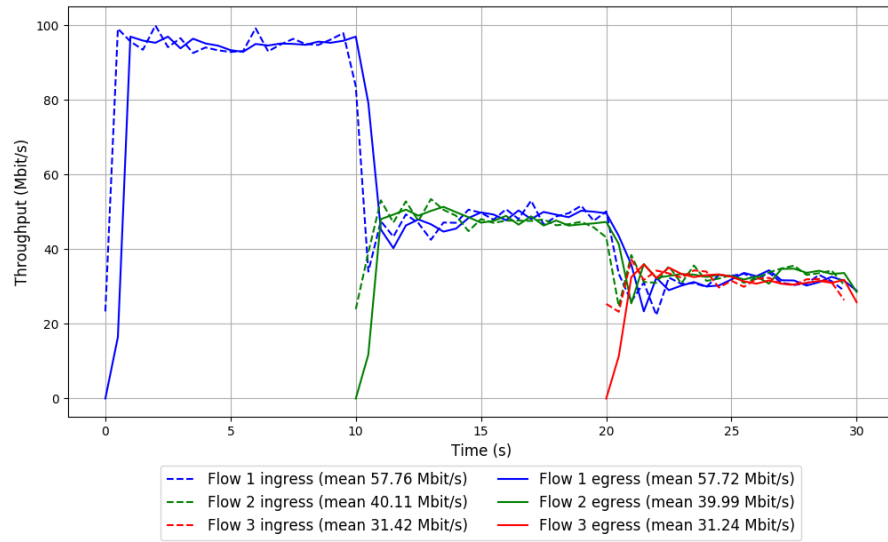
-- Flow 3:

Average throughput: 31.24 Mbit/s

95th percentile per-packet one-way delay: 123.242 ms

Loss rate: 1.00%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-10-03 12:45:50

End at: 2019-10-03 12:46:20

Local clock offset: 0.261 ms

Remote clock offset: 7.531 ms

Below is generated by plot.py at 2019-10-03 16:35:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 101.993 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 58.12 Mbit/s

95th percentile per-packet one-way delay: 103.370 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 39.95 Mbit/s

95th percentile per-packet one-way delay: 102.750 ms

Loss rate: 0.58%

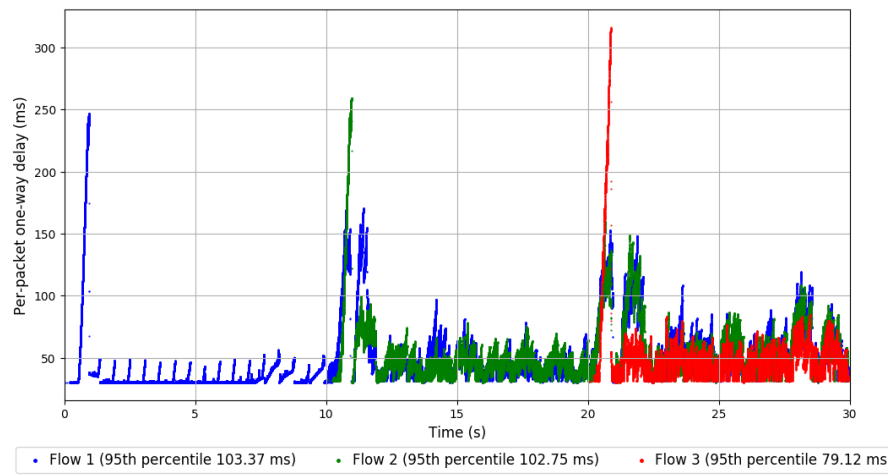
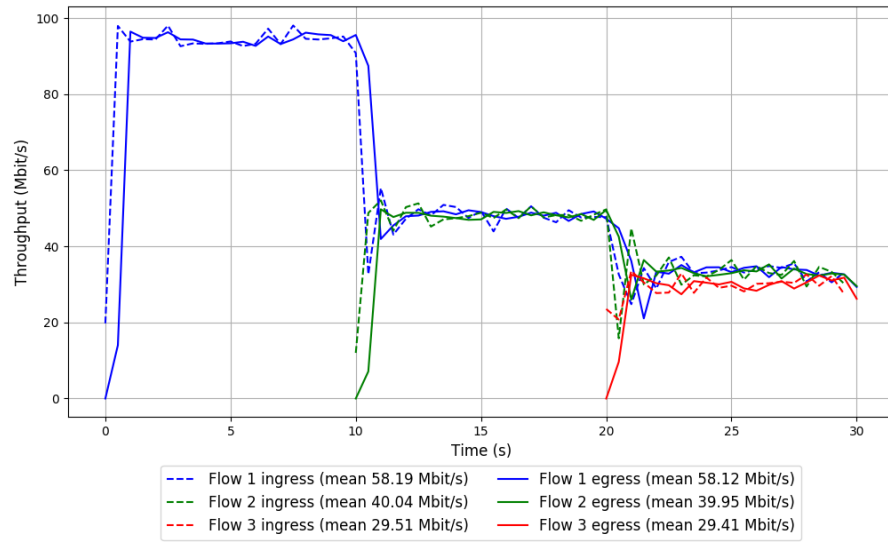
-- Flow 3:

Average throughput: 29.41 Mbit/s

95th percentile per-packet one-way delay: 79.124 ms

Loss rate: 0.78%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-10-03 13:51:16

End at: 2019-10-03 13:51:46

Local clock offset: -0.073 ms

Remote clock offset: 7.409 ms

Below is generated by plot.py at 2019-10-03 16:35:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 111.825 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 86.531 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 36.66 Mbit/s

95th percentile per-packet one-way delay: 126.595 ms

Loss rate: 0.71%

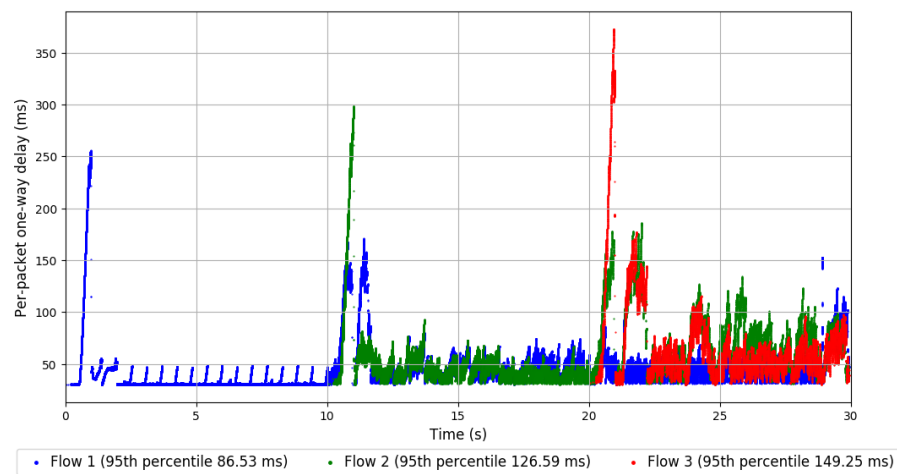
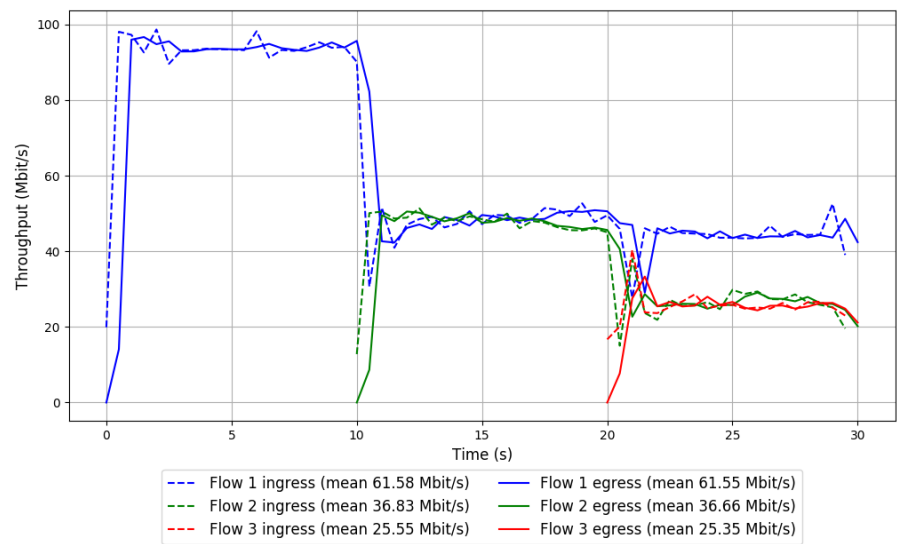
-- Flow 3:

Average throughput: 25.35 Mbit/s

95th percentile per-packet one-way delay: 149.245 ms

Loss rate: 1.39%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-10-03 15:16:13

End at: 2019-10-03 15:16:43

Local clock offset: -0.035 ms

Remote clock offset: 7.119 ms

Below is generated by plot.py at 2019-10-03 16:35:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.57 Mbit/s

95th percentile per-packet one-way delay: 104.222 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 55.02 Mbit/s

95th percentile per-packet one-way delay: 101.529 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 75.073 ms

Loss rate: 0.55%

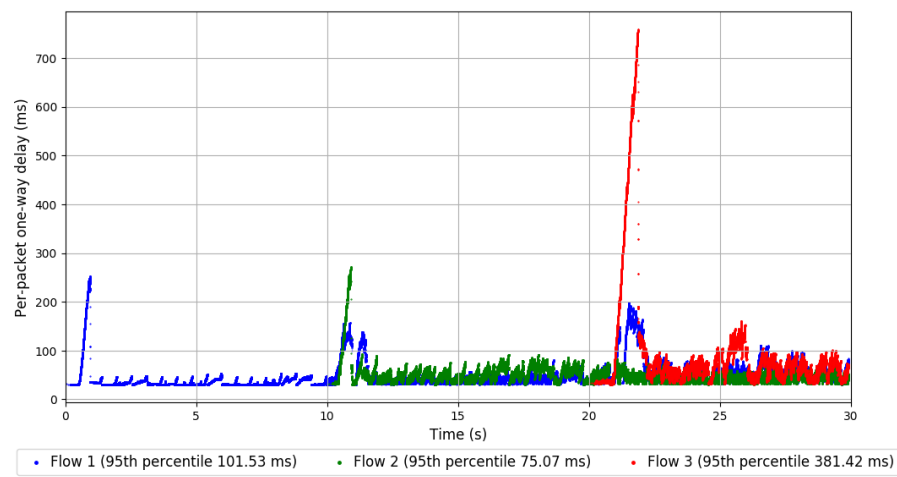
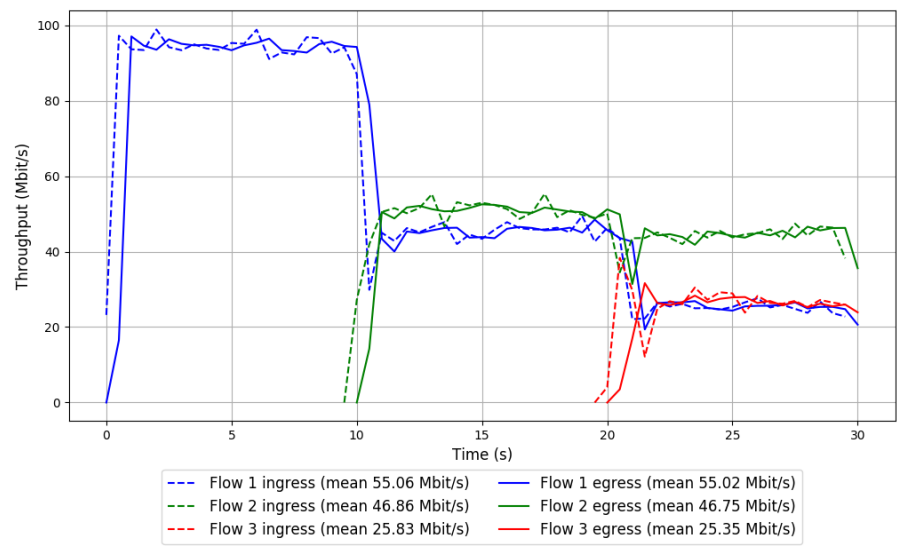
-- Flow 3:

Average throughput: 25.35 Mbit/s

95th percentile per-packet one-way delay: 381.420 ms

Loss rate: 2.50%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-10-03 16:27:11

End at: 2019-10-03 16:27:41

Local clock offset: 0.123 ms

Remote clock offset: 6.522 ms

Below is generated by plot.py at 2019-10-03 16:35:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.96 Mbit/s

95th percentile per-packet one-way delay: 109.110 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 56.15 Mbit/s

95th percentile per-packet one-way delay: 123.625 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 45.52 Mbit/s

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

Loss rate: 0.39%

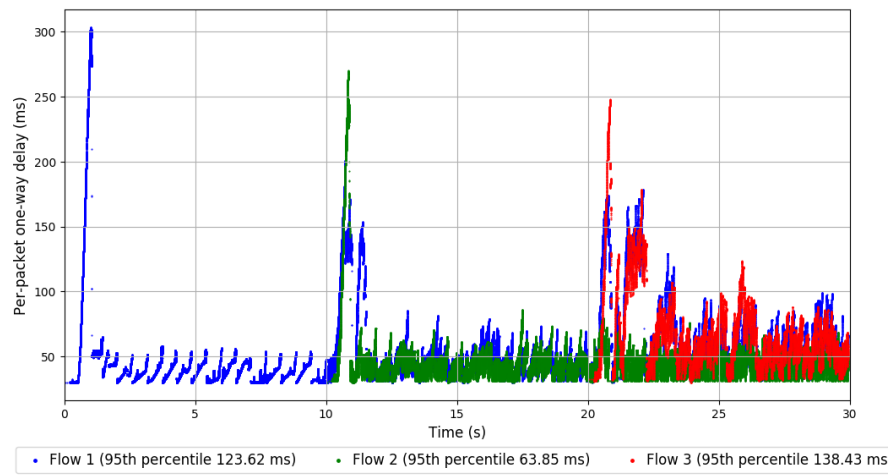
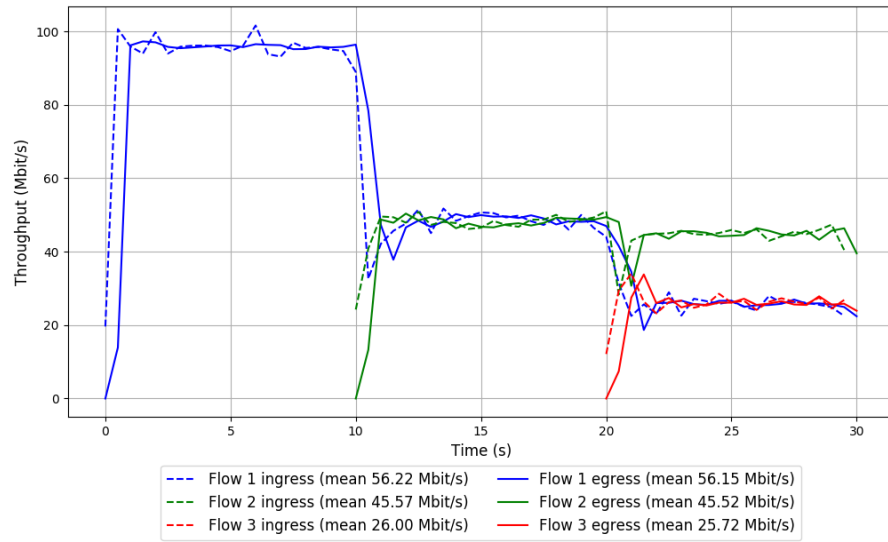
-- Flow 3:

Average throughput: 25.72 Mbit/s

95th percentile per-packet one-way delay: 138.428 ms

Loss rate: 1.74%

Run 5: Report of FillP-Sheep — Data Link

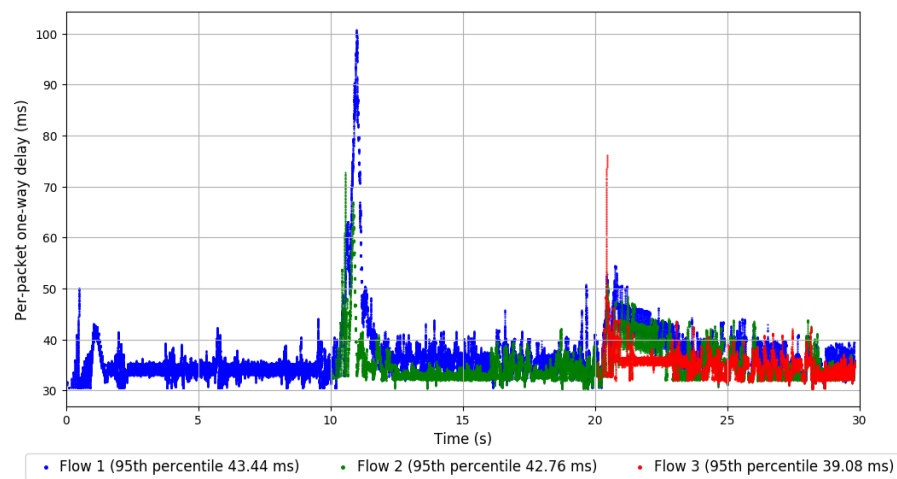
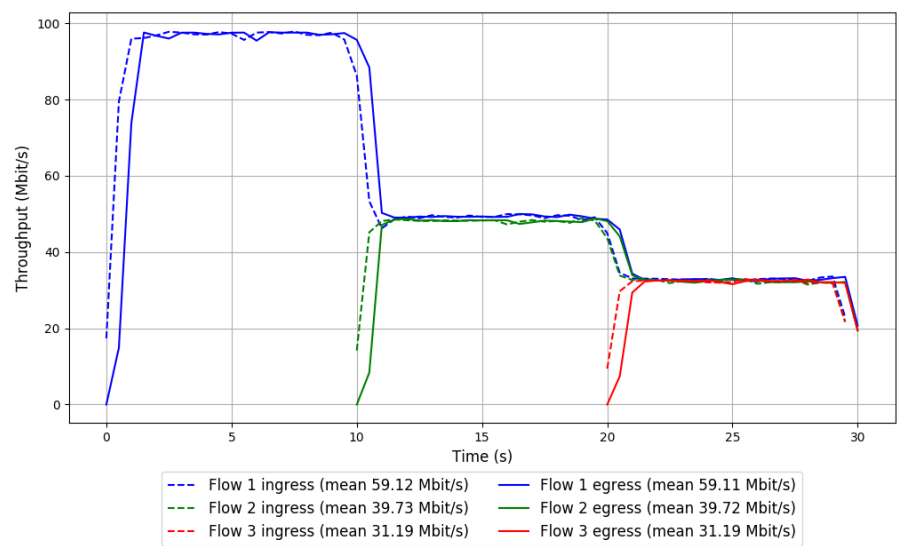


```
Run 1: Statistics of Indigo

Start at: 2019-10-03 11:44:23
End at: 2019-10-03 11:44:53
Local clock offset: 0.356 ms
Remote clock offset: 7.841 ms

# Below is generated by plot.py at 2019-10-03 16:35:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 42.858 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 59.11 Mbit/s
95th percentile per-packet one-way delay: 43.438 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 39.72 Mbit/s
95th percentile per-packet one-way delay: 42.756 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 31.19 Mbit/s
95th percentile per-packet one-way delay: 39.080 ms
Loss rate: 0.70%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-10-03 12:37:53

End at: 2019-10-03 12:38:23

Local clock offset: 0.219 ms

Remote clock offset: 7.715 ms

Below is generated by plot.py at 2019-10-03 16:35:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 42.970 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 59.48 Mbit/s

95th percentile per-packet one-way delay: 43.668 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 39.76 Mbit/s

95th percentile per-packet one-way delay: 42.883 ms

Loss rate: 0.30%

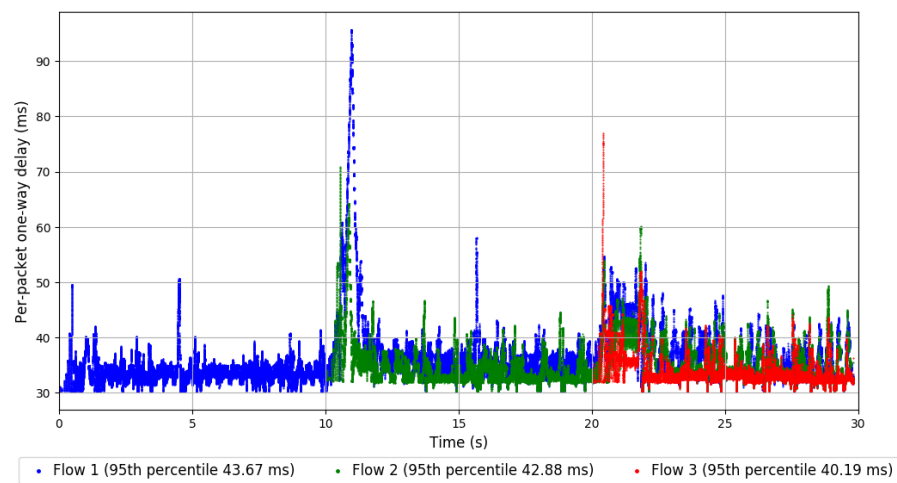
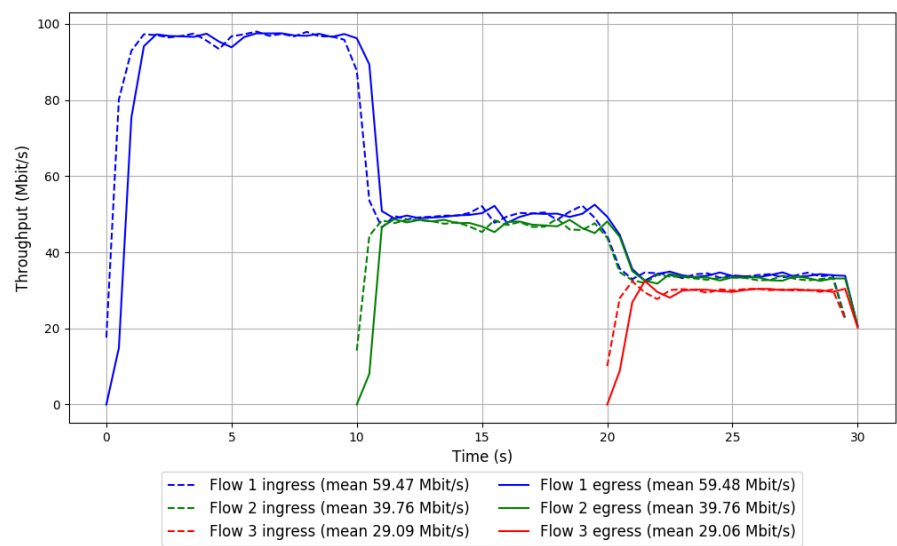
-- Flow 3:

Average throughput: 29.06 Mbit/s

95th percentile per-packet one-way delay: 40.189 ms

Loss rate: 0.74%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-10-03 13:41:44

End at: 2019-10-03 13:42:14

Local clock offset: -0.093 ms

Remote clock offset: 7.592 ms

Below is generated by plot.py at 2019-10-03 16:35:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 42.809 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 63.96 Mbit/s

95th percentile per-packet one-way delay: 41.205 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 36.80 Mbit/s

95th percentile per-packet one-way delay: 45.095 ms

Loss rate: 0.24%

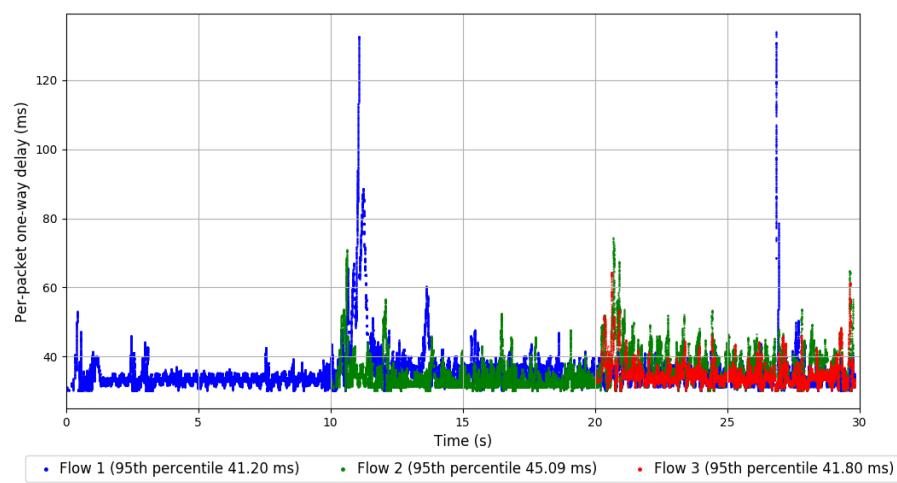
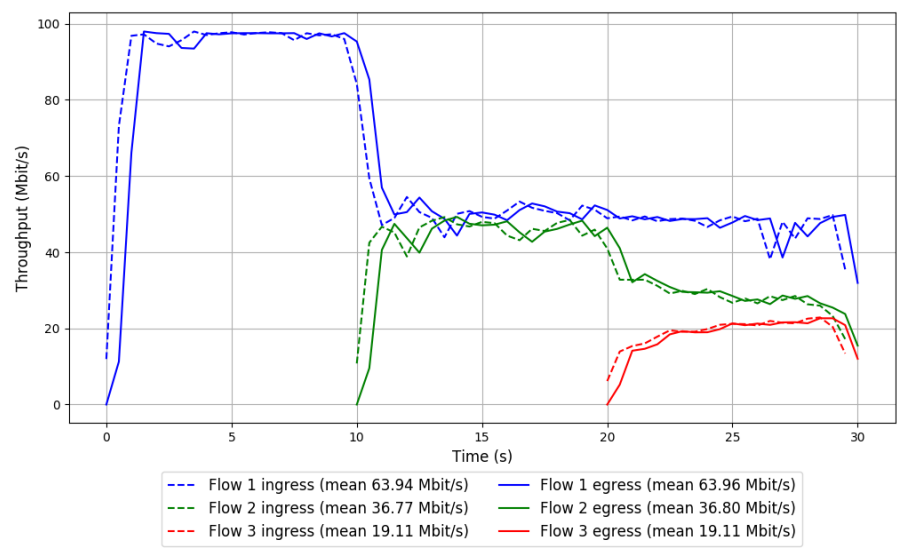
-- Flow 3:

Average throughput: 19.11 Mbit/s

95th percentile per-packet one-way delay: 41.795 ms

Loss rate: 0.70%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-10-03 15:04:01

End at: 2019-10-03 15:04:31

Local clock offset: 0.013 ms

Remote clock offset: 7.297 ms

Below is generated by plot.py at 2019-10-03 16:35:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 43.955 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 56.09 Mbit/s

95th percentile per-packet one-way delay: 46.663 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 45.02 Mbit/s

95th percentile per-packet one-way delay: 38.745 ms

Loss rate: 0.32%

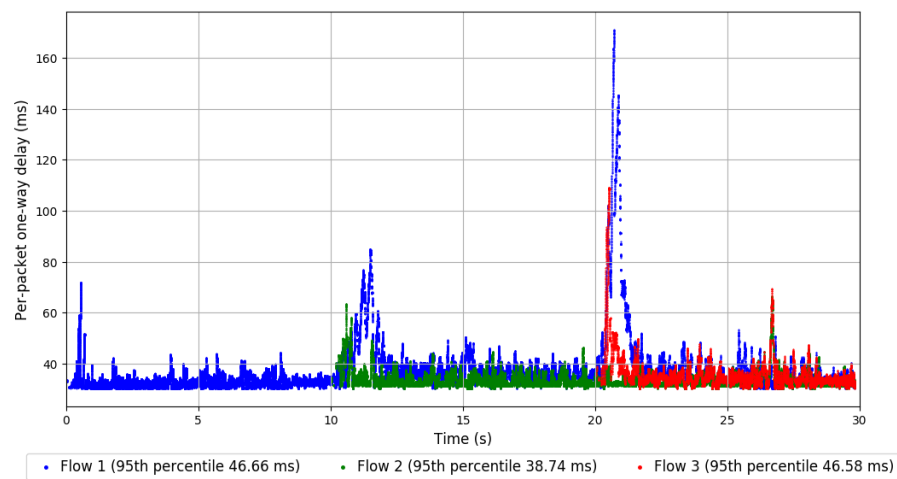
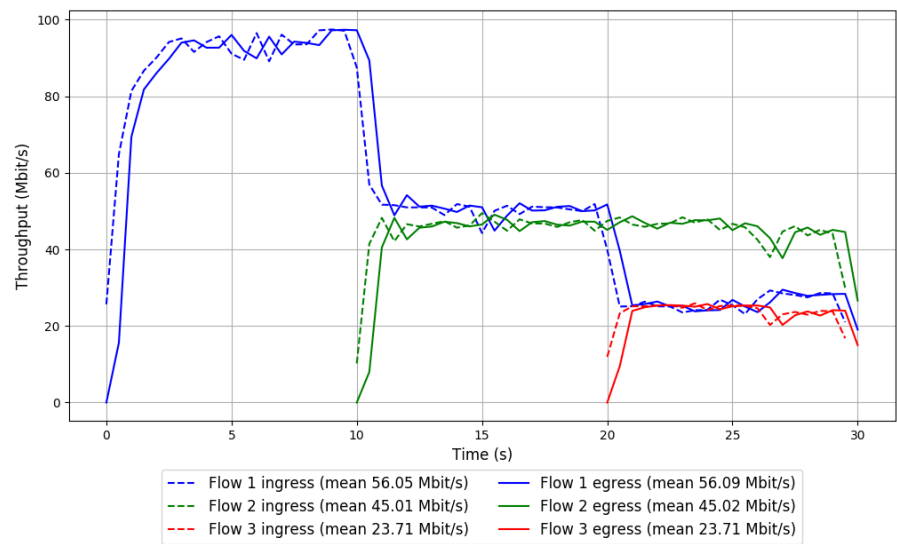
-- Flow 3:

Average throughput: 23.71 Mbit/s

95th percentile per-packet one-way delay: 46.584 ms

Loss rate: 0.70%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-10-03 16:18:59

End at: 2019-10-03 16:19:29

Local clock offset: 0.006 ms

Remote clock offset: 6.616 ms

Below is generated by plot.py at 2019-10-03 16:36:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 43.207 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 63.22 Mbit/s

95th percentile per-packet one-way delay: 41.305 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 35.94 Mbit/s

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

Loss rate: 0.30%

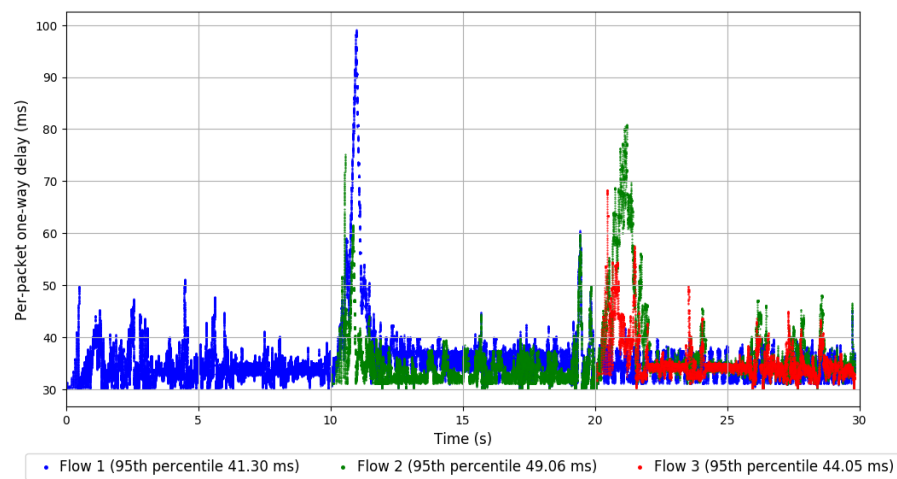
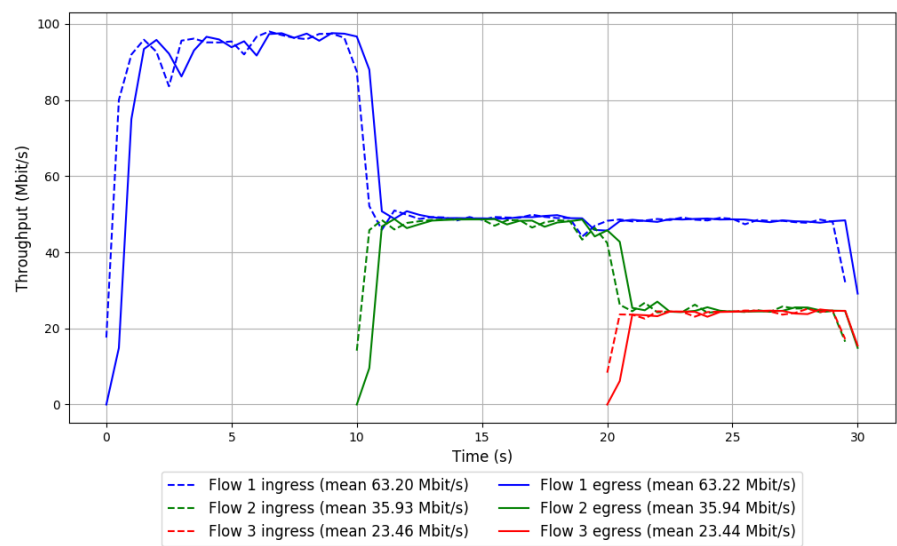
-- Flow 3:

Average throughput: 23.44 Mbit/s

95th percentile per-packet one-way delay: 44.049 ms

Loss rate: 0.75%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-03 11:29:16

End at: 2019-10-03 11:29:46

Local clock offset: 0.377 ms

Remote clock offset: 7.546 ms

Below is generated by plot.py at 2019-10-03 16:36:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 58.584 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 58.12 Mbit/s

95th percentile per-packet one-way delay: 63.131 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 48.45 Mbit/s

95th percentile per-packet one-way delay: 54.218 ms

Loss rate: 0.46%

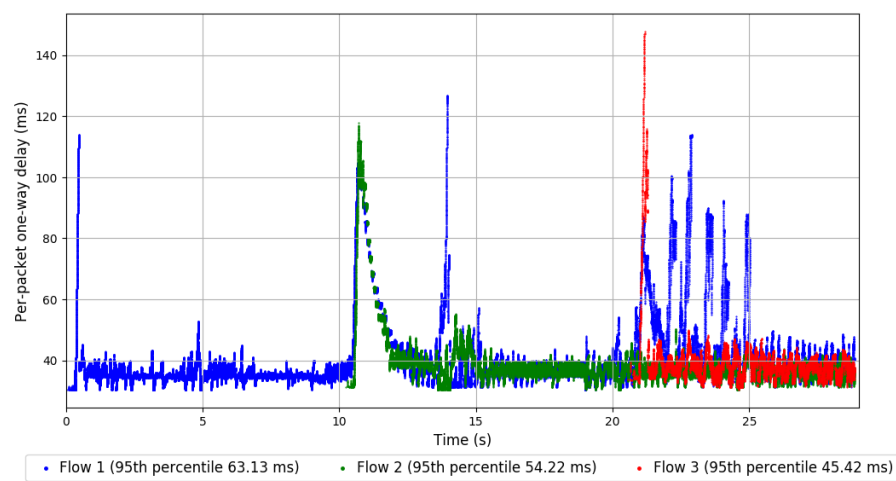
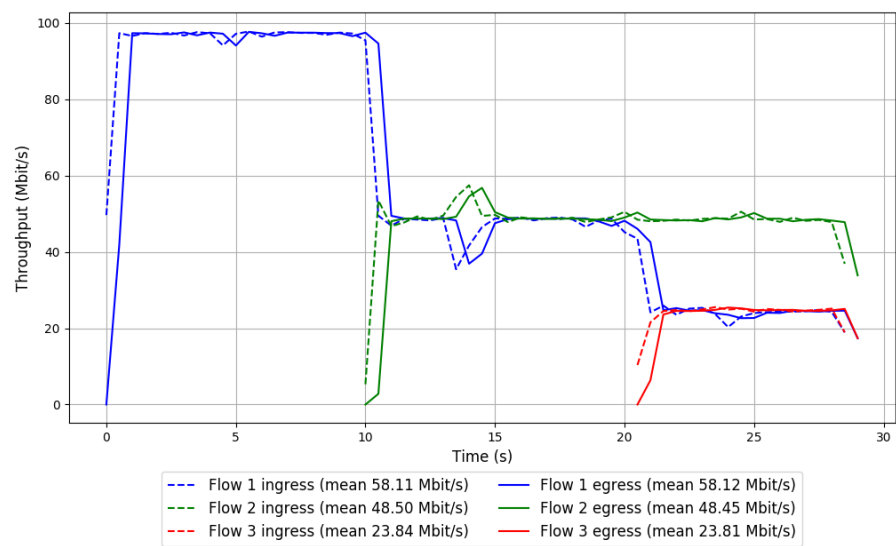
-- Flow 3:

Average throughput: 23.81 Mbit/s

95th percentile per-packet one-way delay: 45.418 ms

Loss rate: 0.96%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-03 12:21:02

End at: 2019-10-03 12:21:32

Local clock offset: 0.264 ms

Remote clock offset: 7.935 ms

Below is generated by plot.py at 2019-10-03 16:36:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 56.439 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 59.21 Mbit/s

95th percentile per-packet one-way delay: 55.407 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 38.21 Mbit/s

95th percentile per-packet one-way delay: 61.874 ms

Loss rate: 0.38%

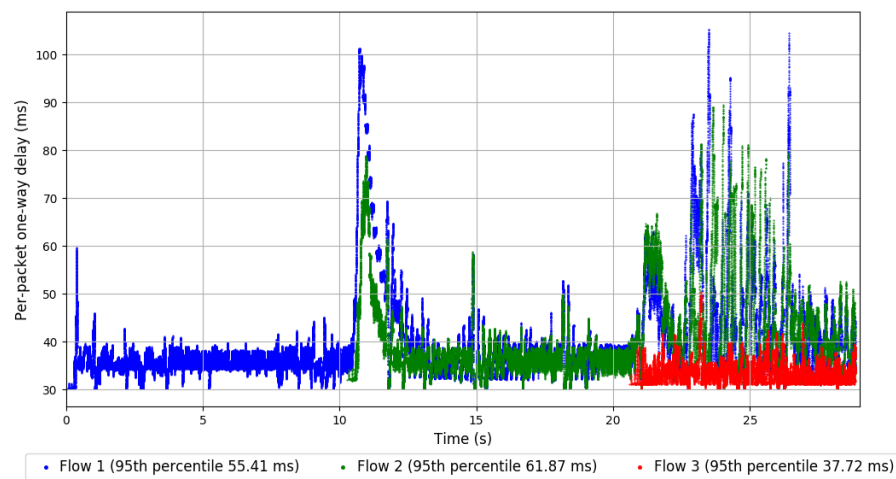
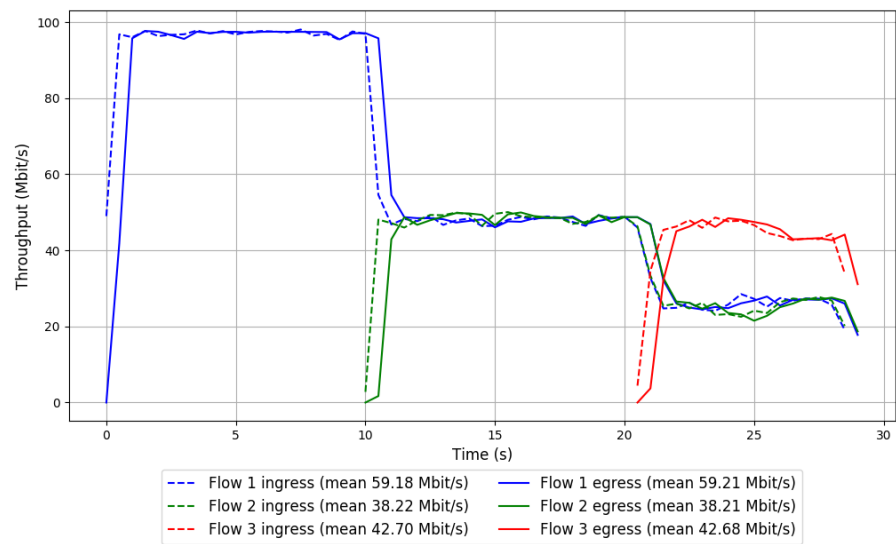
-- Flow 3:

Average throughput: 42.68 Mbit/s

95th percentile per-packet one-way delay: 37.716 ms

Loss rate: 0.82%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-03 13:19:51

End at: 2019-10-03 13:20:21

Local clock offset: 0.063 ms

Remote clock offset: 7.678 ms

Below is generated by plot.py at 2019-10-03 16:36:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 63.183 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 58.45 Mbit/s

95th percentile per-packet one-way delay: 62.166 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 37.53 Mbit/s

95th percentile per-packet one-way delay: 66.751 ms

Loss rate: 0.42%

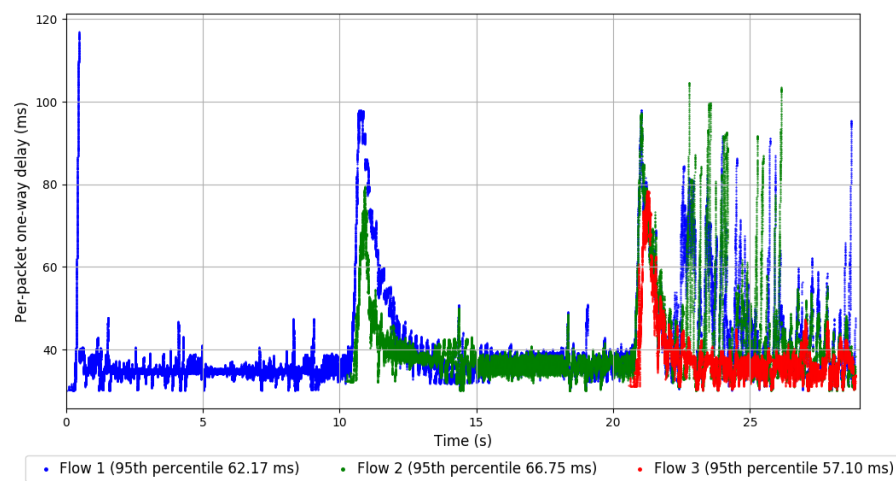
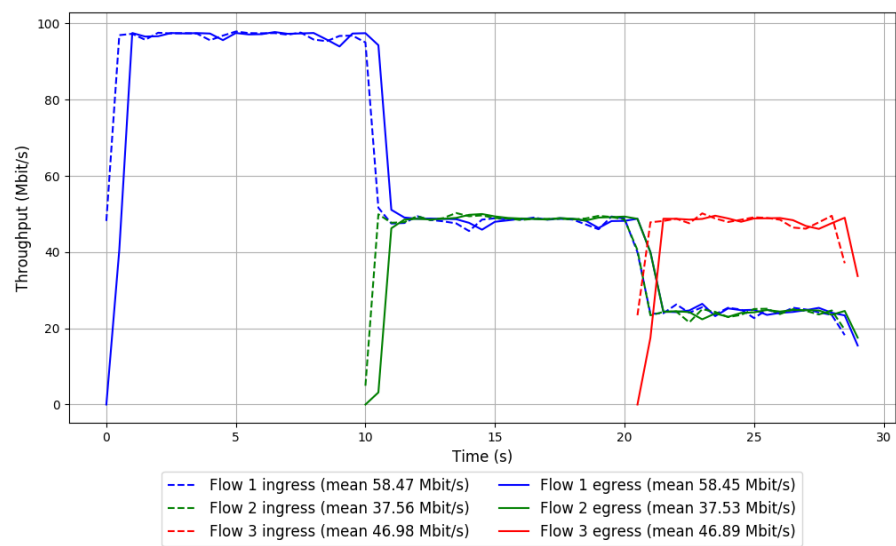
-- Flow 3:

Average throughput: 46.89 Mbit/s

95th percentile per-packet one-way delay: 57.104 ms

Loss rate: 1.00%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-03 14:35:58

End at: 2019-10-03 14:36:28

Local clock offset: 0.037 ms

Remote clock offset: 7.558 ms

Below is generated by plot.py at 2019-10-03 16:36:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 57.176 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 58.54 Mbit/s

95th percentile per-packet one-way delay: 58.827 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 47.55 Mbit/s

95th percentile per-packet one-way delay: 49.534 ms

Loss rate: 0.46%

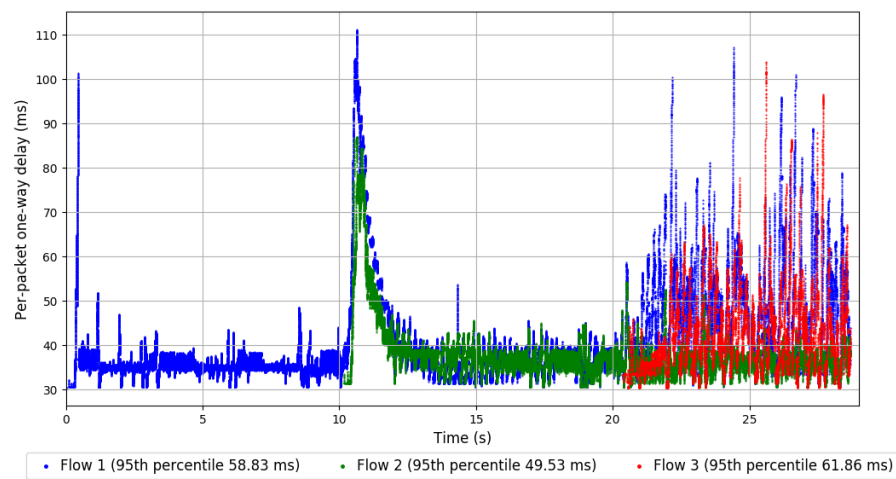
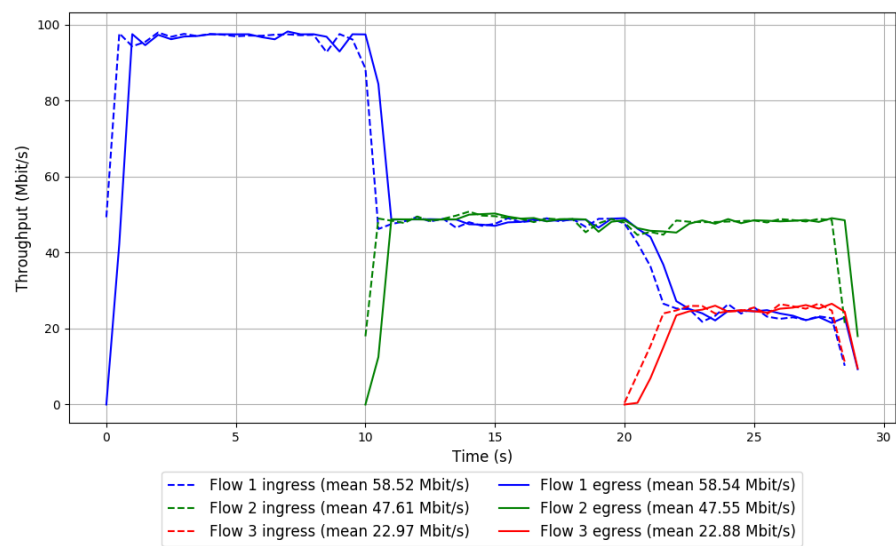
-- Flow 3:

Average throughput: 22.88 Mbit/s

95th percentile per-packet one-way delay: 61.864 ms

Loss rate: 1.20%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-03 15:59:01

End at: 2019-10-03 15:59:31

Local clock offset: -0.039 ms

Remote clock offset: 6.7 ms

Below is generated by plot.py at 2019-10-03 16:36:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 55.339 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 60.72 Mbit/s

95th percentile per-packet one-way delay: 51.941 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 40.84 Mbit/s

95th percentile per-packet one-way delay: 51.474 ms

Loss rate: 0.84%

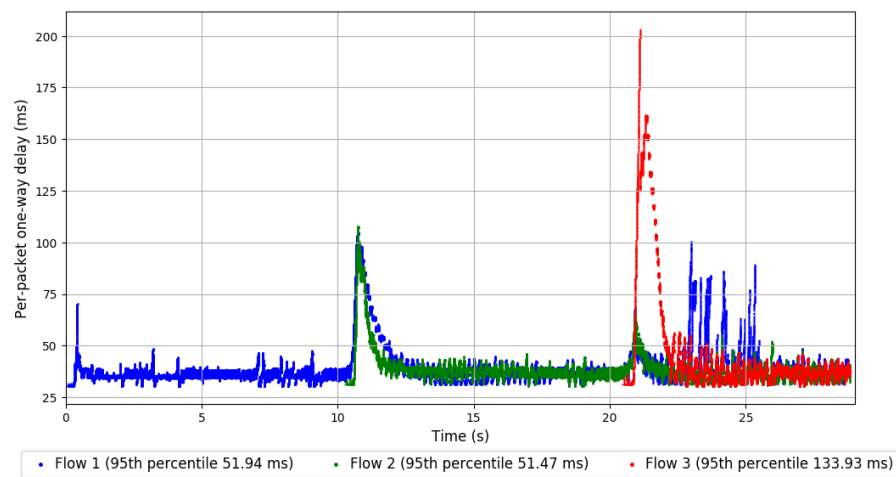
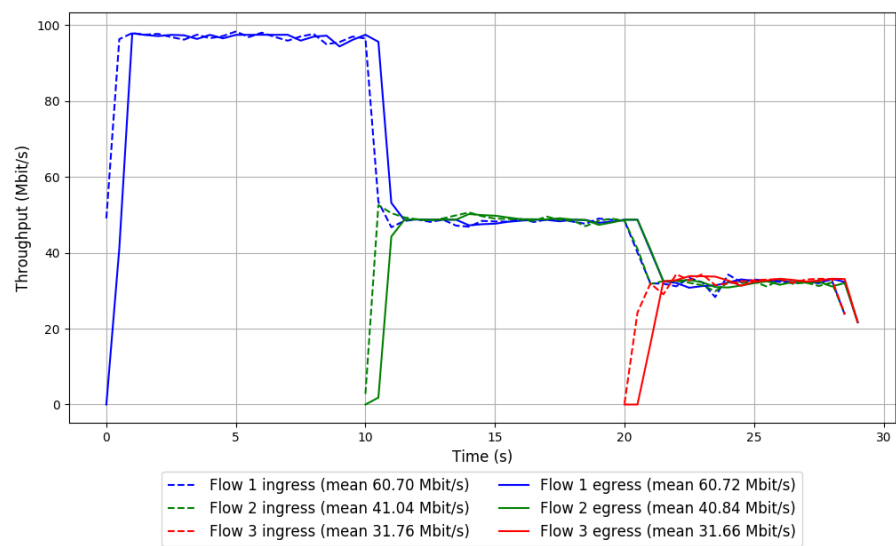
-- Flow 3:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 133.929 ms

Loss rate: 1.08%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-03 11:31:46

End at: 2019-10-03 11:32:16

Local clock offset: 0.354 ms

Remote clock offset: 7.751 ms

Below is generated by plot.py at 2019-10-03 16:36:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.22 Mbit/s

95th percentile per-packet one-way delay: 103.633 ms

Loss rate: 2.53%

-- Flow 1:

Average throughput: 59.72 Mbit/s

95th percentile per-packet one-way delay: 104.165 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 40.60 Mbit/s

95th percentile per-packet one-way delay: 99.602 ms

Loss rate: 3.52%

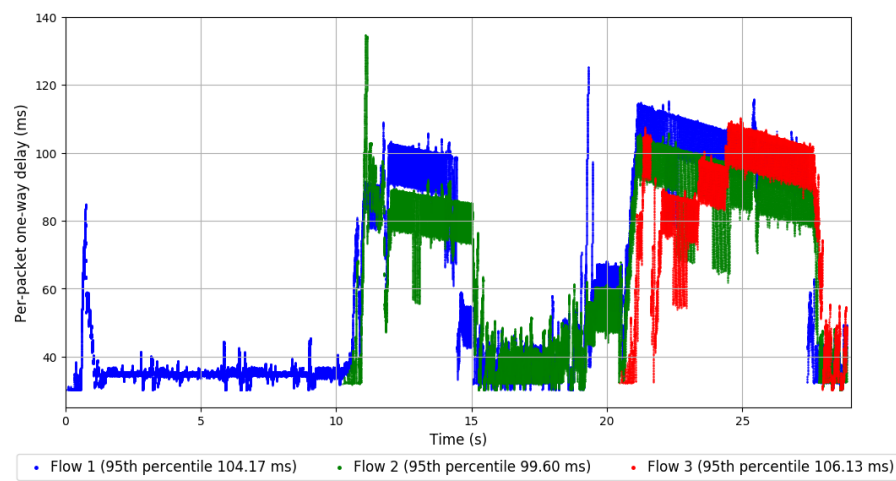
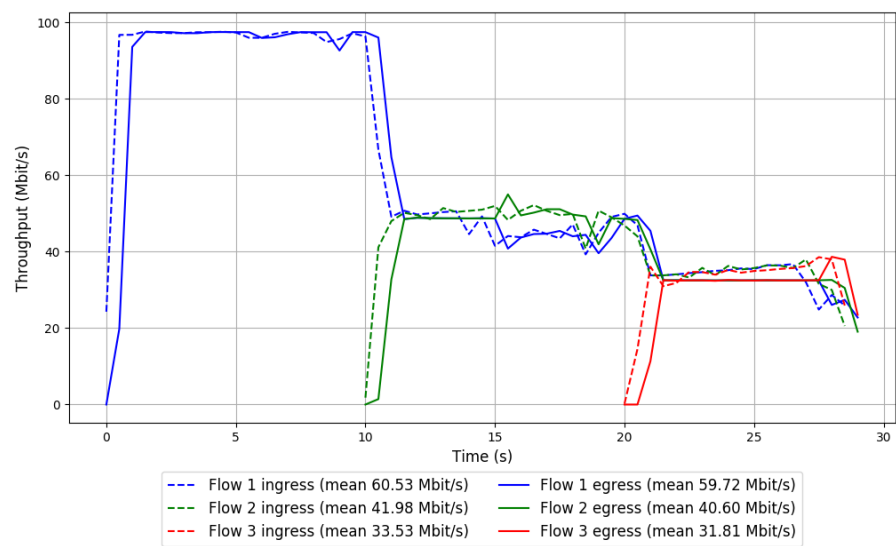
-- Flow 3:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: 106.128 ms

Loss rate: 5.82%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-03 12:23:38

End at: 2019-10-03 12:24:08

Local clock offset: 0.28 ms

Remote clock offset: 8.021 ms

Below is generated by plot.py at 2019-10-03 16:37:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.48 Mbit/s

95th percentile per-packet one-way delay: 117.359 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 61.01 Mbit/s

95th percentile per-packet one-way delay: 82.477 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 39.67 Mbit/s

95th percentile per-packet one-way delay: 135.189 ms

Loss rate: 4.11%

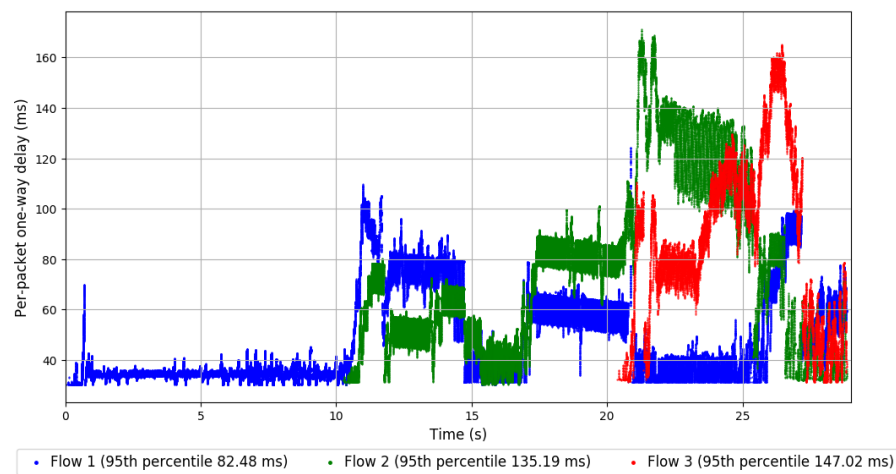
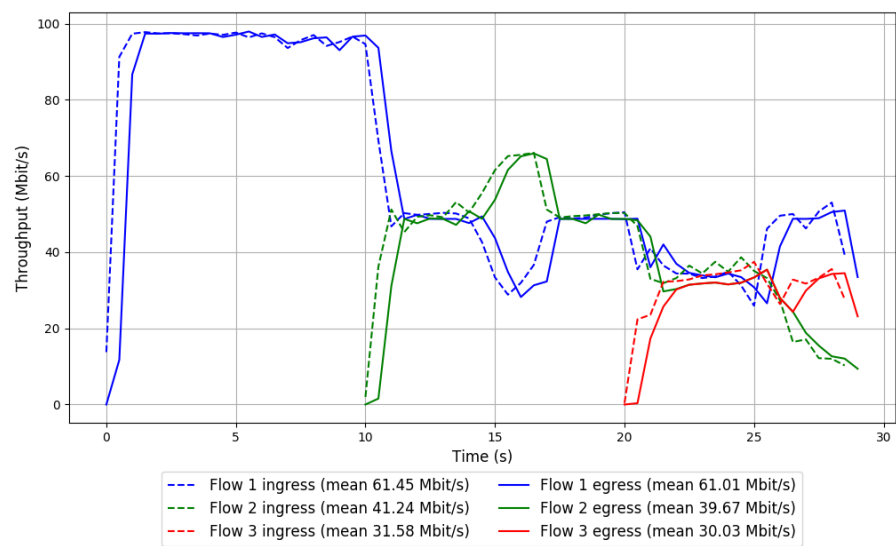
-- Flow 3:

Average throughput: 30.03 Mbit/s

95th percentile per-packet one-way delay: 147.020 ms

Loss rate: 5.58%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-03 13:22:33

End at: 2019-10-03 13:23:03

Local clock offset: 0.068 ms

Remote clock offset: 7.676 ms

Below is generated by plot.py at 2019-10-03 16:37:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 146.088 ms

Loss rate: 2.54%

-- Flow 1:

Average throughput: 56.38 Mbit/s

95th percentile per-packet one-way delay: 151.735 ms

Loss rate: 2.01%

-- Flow 2:

Average throughput: 48.57 Mbit/s

95th percentile per-packet one-way delay: 82.390 ms

Loss rate: 1.94%

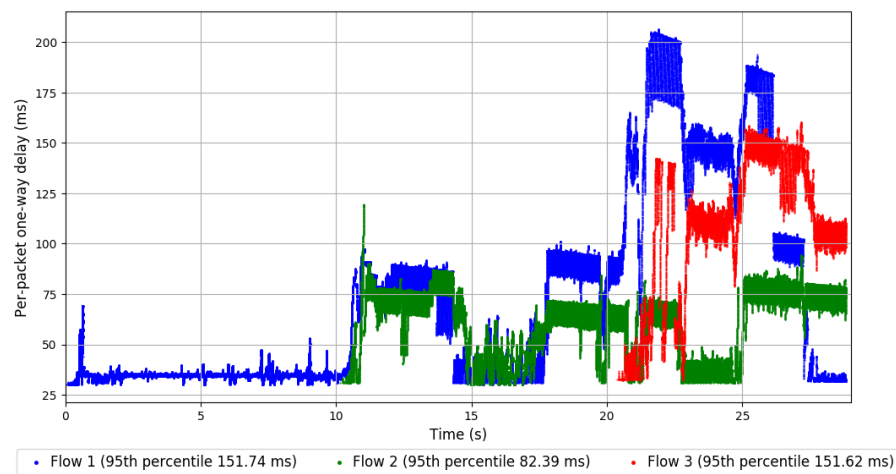
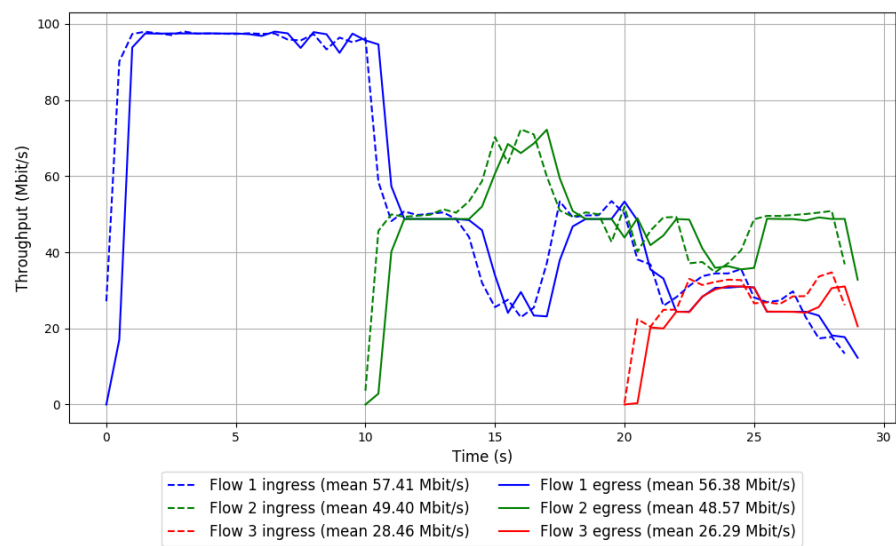
-- Flow 3:

Average throughput: 26.29 Mbit/s

95th percentile per-packet one-way delay: 151.620 ms

Loss rate: 8.35%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-03 14:39:33

End at: 2019-10-03 14:40:03

Local clock offset: 0.026 ms

Remote clock offset: 7.789 ms

Below is generated by plot.py at 2019-10-03 16:37:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.76 Mbit/s

95th percentile per-packet one-way delay: 110.430 ms

Loss rate: 2.03%

-- Flow 1:

Average throughput: 58.24 Mbit/s

95th percentile per-packet one-way delay: 112.253 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 40.27 Mbit/s

95th percentile per-packet one-way delay: 107.896 ms

Loss rate: 2.78%

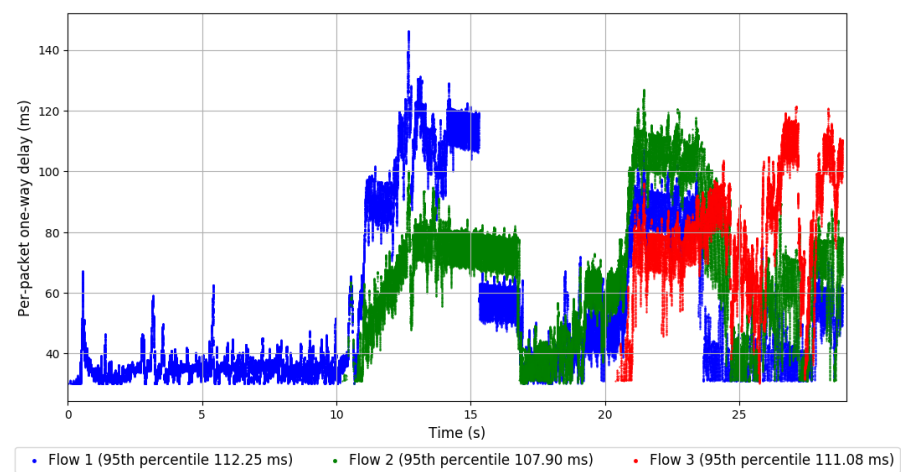
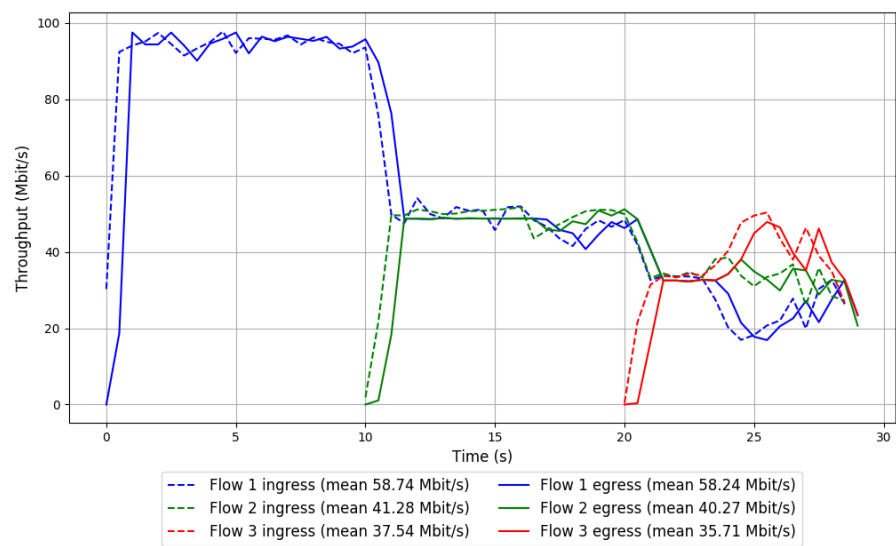
-- Flow 3:

Average throughput: 35.71 Mbit/s

95th percentile per-packet one-way delay: 111.078 ms

Loss rate: 5.60%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-03 16:01:22

End at: 2019-10-03 16:01:52

Local clock offset: 0.008 ms

Remote clock offset: 6.617 ms

Below is generated by plot.py at 2019-10-03 16:37:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 118.039 ms

Loss rate: 2.69%

-- Flow 1:

Average throughput: 58.41 Mbit/s

95th percentile per-packet one-way delay: 113.138 ms

Loss rate: 1.76%

-- Flow 2:

Average throughput: 36.25 Mbit/s

95th percentile per-packet one-way delay: 138.555 ms

Loss rate: 4.10%

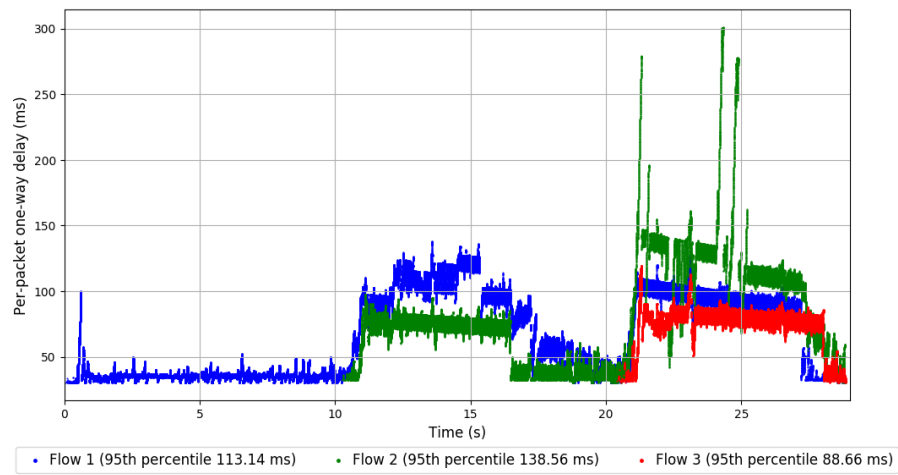
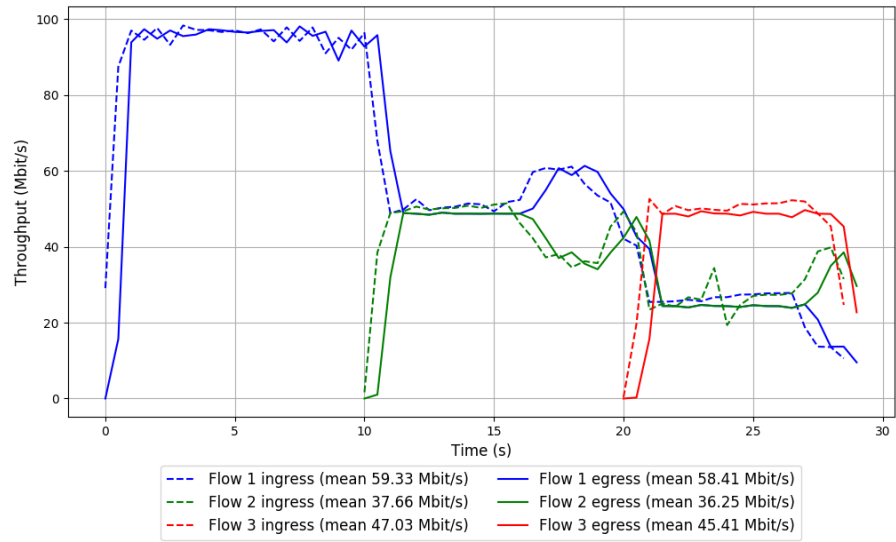
-- Flow 3:

Average throughput: 45.41 Mbit/s

95th percentile per-packet one-way delay: 88.656 ms

Loss rate: 4.18%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-03 11:24:35

End at: 2019-10-03 11:25:05

Local clock offset: 0.407 ms

Remote clock offset: 7.292 ms

Below is generated by plot.py at 2019-10-03 16:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 148.985 ms

Loss rate: 7.82%

-- Flow 1:

Average throughput: 60.56 Mbit/s

95th percentile per-packet one-way delay: 148.251 ms

Loss rate: 5.76%

-- Flow 2:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 151.099 ms

Loss rate: 11.98%

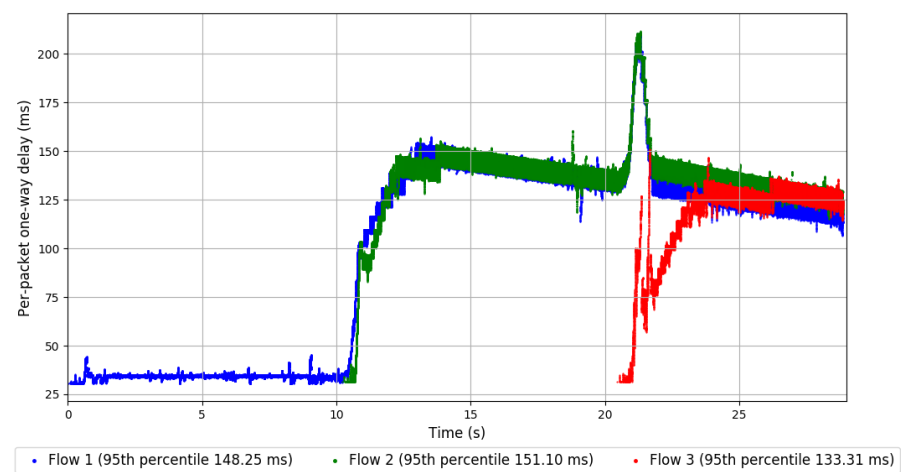
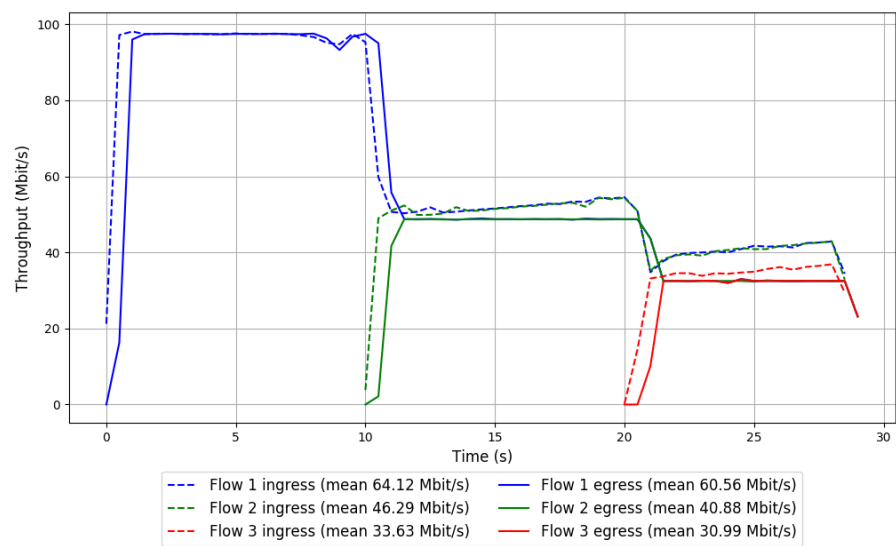
-- Flow 3:

Average throughput: 30.99 Mbit/s

95th percentile per-packet one-way delay: 133.315 ms

Loss rate: 8.54%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-03 12:15:42

End at: 2019-10-03 12:16:12

Local clock offset: 0.297 ms

Remote clock offset: 7.769 ms

Below is generated by plot.py at 2019-10-03 16:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.13 Mbit/s

95th percentile per-packet one-way delay: 142.330 ms

Loss rate: 7.11%

-- Flow 1:

Average throughput: 58.85 Mbit/s

95th percentile per-packet one-way delay: 143.847 ms

Loss rate: 5.72%

-- Flow 2:

Average throughput: 47.78 Mbit/s

95th percentile per-packet one-way delay: 140.330 ms

Loss rate: 10.60%

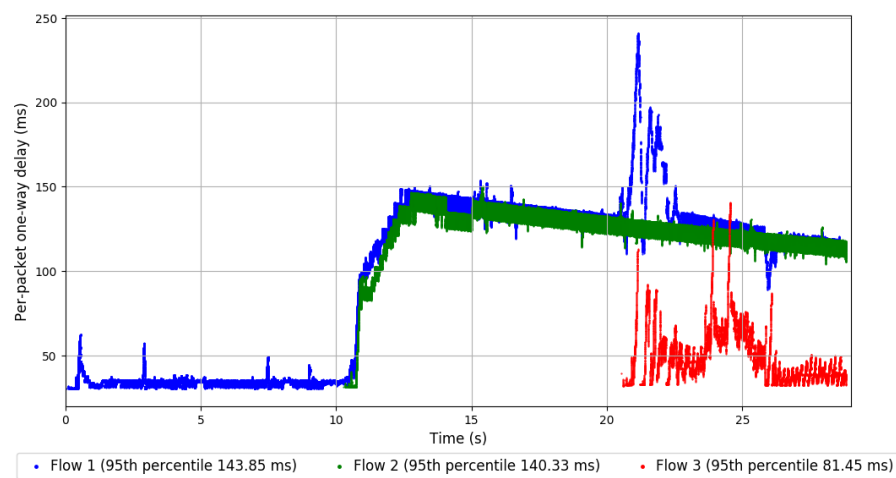
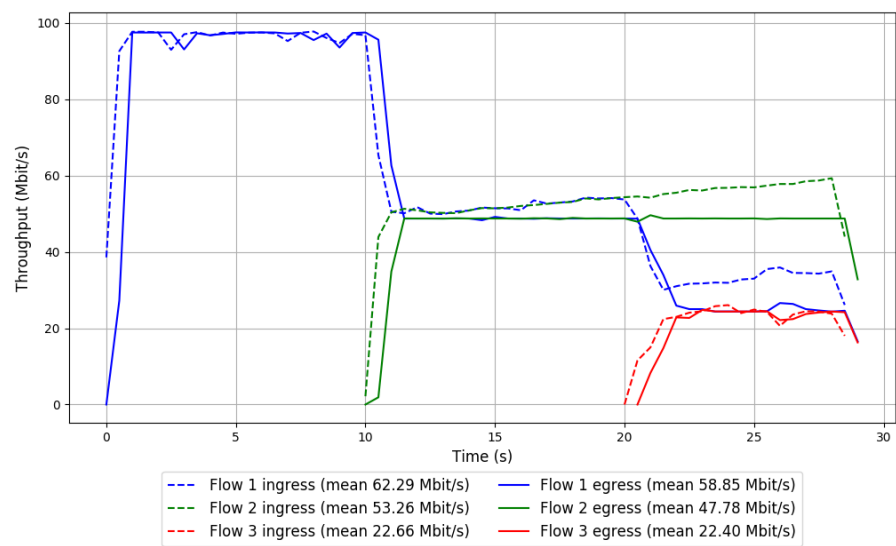
-- Flow 3:

Average throughput: 22.40 Mbit/s

95th percentile per-packet one-way delay: 81.452 ms

Loss rate: 2.02%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-03 13:13:32

End at: 2019-10-03 13:14:02

Local clock offset: 0.121 ms

Remote clock offset: 7.454 ms

Below is generated by plot.py at 2019-10-03 16:38:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 141.240 ms

Loss rate: 5.75%

-- Flow 1:

Average throughput: 61.25 Mbit/s

95th percentile per-packet one-way delay: 143.449 ms

Loss rate: 5.50%

-- Flow 2:

Average throughput: 40.23 Mbit/s

95th percentile per-packet one-way delay: 127.369 ms

Loss rate: 7.74%

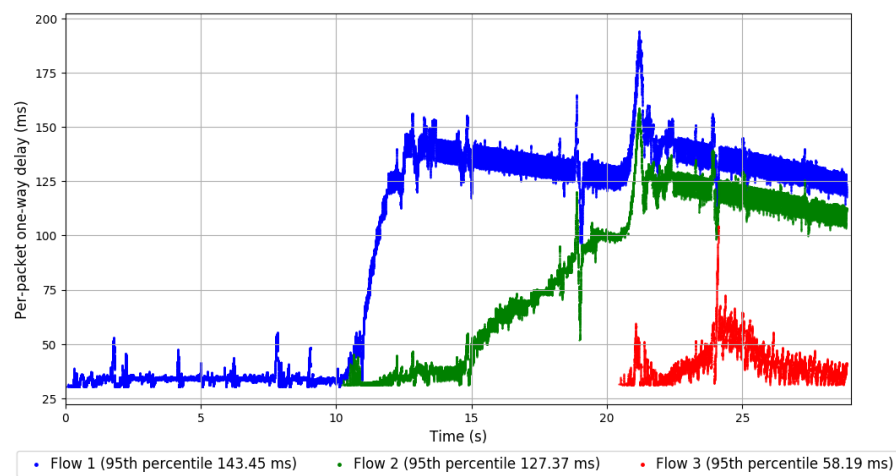
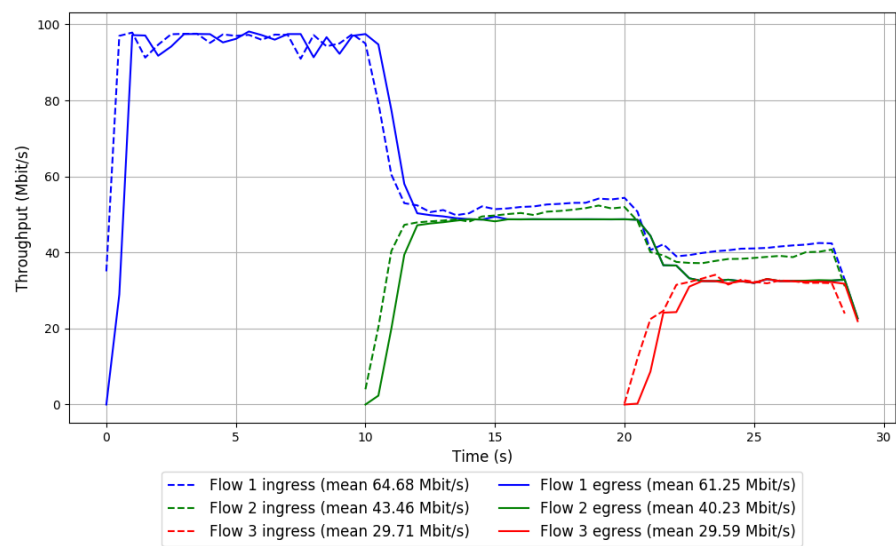
-- Flow 3:

Average throughput: 29.59 Mbit/s

95th percentile per-packet one-way delay: 58.190 ms

Loss rate: 1.17%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-03 14:29:36

End at: 2019-10-03 14:30:06

Local clock offset: 0.013 ms

Remote clock offset: 7.68 ms

Below is generated by plot.py at 2019-10-03 16:38:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 142.445 ms

Loss rate: 3.67%

-- Flow 1:

Average throughput: 64.14 Mbit/s

95th percentile per-packet one-way delay: 144.755 ms

Loss rate: 5.19%

-- Flow 2:

Average throughput: 32.43 Mbit/s

95th percentile per-packet one-way delay: 41.961 ms

Loss rate: 0.10%

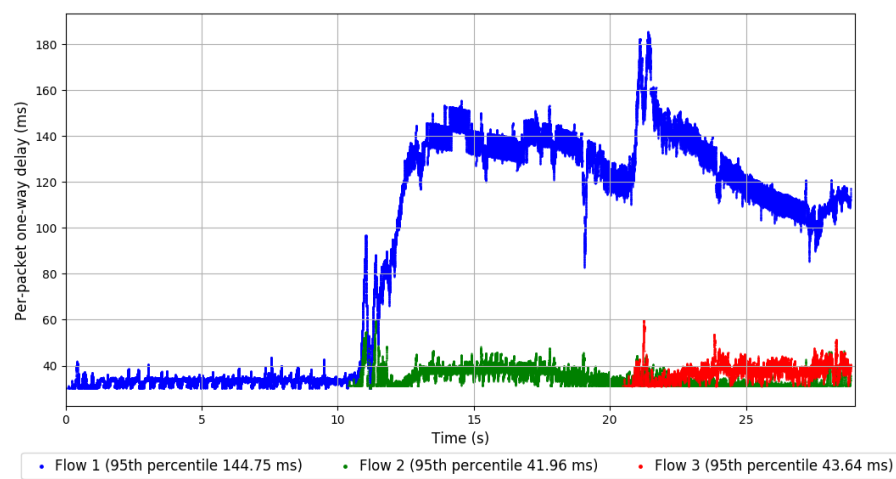
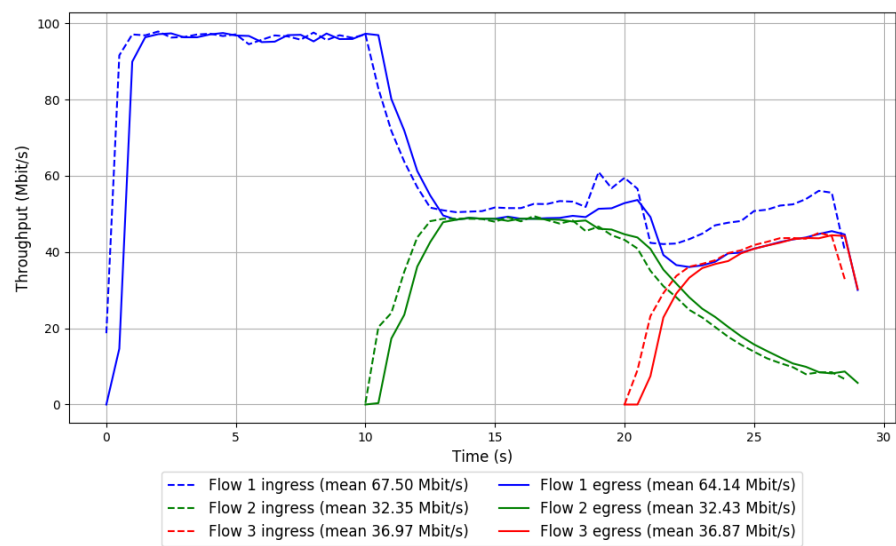
-- Flow 3:

Average throughput: 36.87 Mbit/s

95th percentile per-packet one-way delay: 43.637 ms

Loss rate: 1.03%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-03 15:52:34

End at: 2019-10-03 15:53:04

Local clock offset: -0.109 ms

Remote clock offset: 6.994 ms

Below is generated by plot.py at 2019-10-03 16:38:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.55 Mbit/s

95th percentile per-packet one-way delay: 147.641 ms

Loss rate: 8.05%

-- Flow 1:

Average throughput: 58.25 Mbit/s

95th percentile per-packet one-way delay: 147.902 ms

Loss rate: 6.32%

-- Flow 2:

Average throughput: 47.64 Mbit/s

95th percentile per-packet one-way delay: 148.860 ms

Loss rate: 11.30%

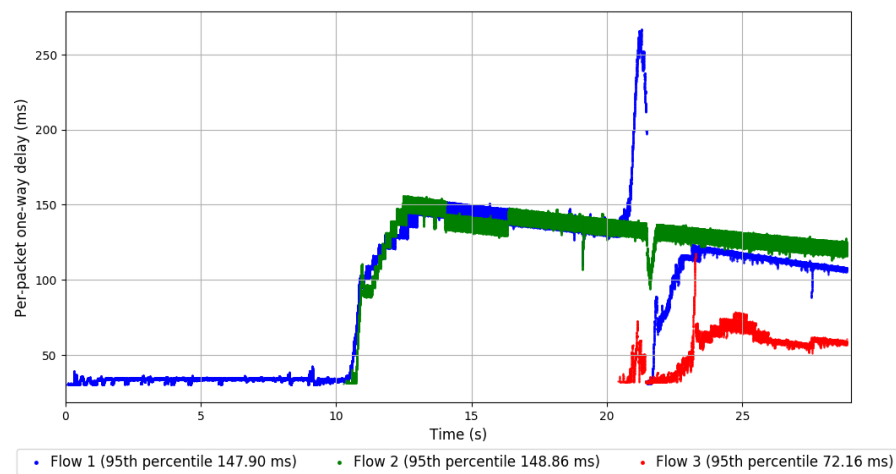
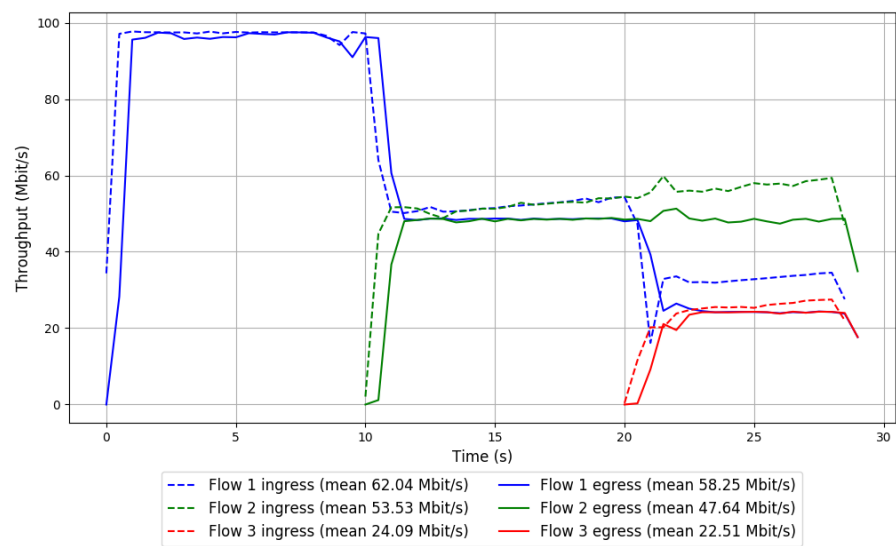
-- Flow 3:

Average throughput: 22.51 Mbit/s

95th percentile per-packet one-way delay: 72.159 ms

Loss rate: 7.28%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-10-03 11:22:27

End at: 2019-10-03 11:22:57

Local clock offset: 0.416 ms

Remote clock offset: 7.266 ms

Below is generated by plot.py at 2019-10-03 16:38:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.42 Mbit/s

95th percentile per-packet one-way delay: 143.293 ms

Loss rate: 2.93%

-- Flow 1:

Average throughput: 58.89 Mbit/s

95th percentile per-packet one-way delay: 110.216 ms

Loss rate: 2.43%

-- Flow 2:

Average throughput: 37.10 Mbit/s

95th percentile per-packet one-way delay: 243.299 ms

Loss rate: 3.14%

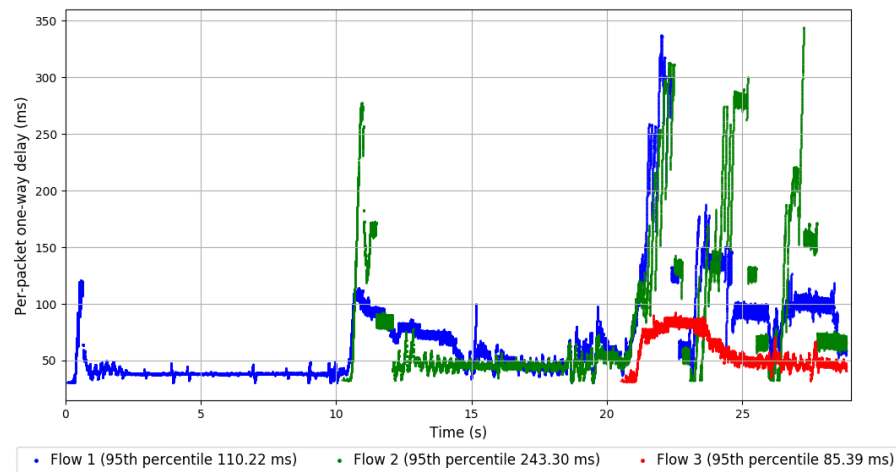
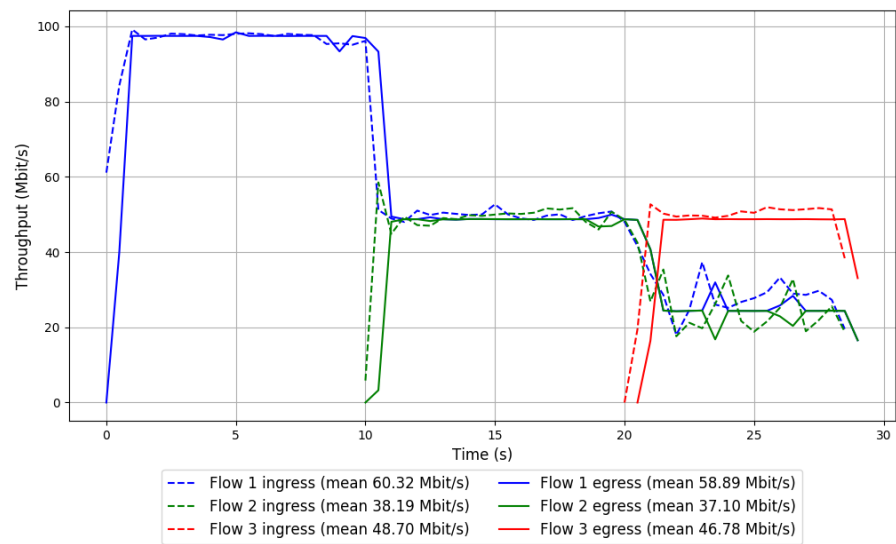
-- Flow 3:

Average throughput: 46.78 Mbit/s

95th percentile per-packet one-way delay: 85.395 ms

Loss rate: 4.66%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-10-03 12:13:23

End at: 2019-10-03 12:13:53

Local clock offset: 0.299 ms

Remote clock offset: 7.766 ms

Below is generated by plot.py at 2019-10-03 16:38:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 164.289 ms

Loss rate: 3.18%

-- Flow 1:

Average throughput: 60.85 Mbit/s

95th percentile per-packet one-way delay: 116.442 ms

Loss rate: 1.88%

-- Flow 2:

Average throughput: 41.12 Mbit/s

95th percentile per-packet one-way delay: 225.687 ms

Loss rate: 4.50%

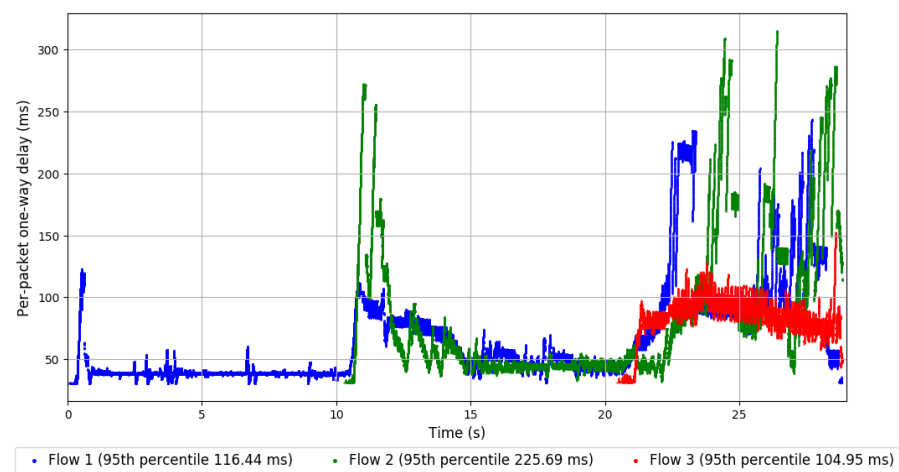
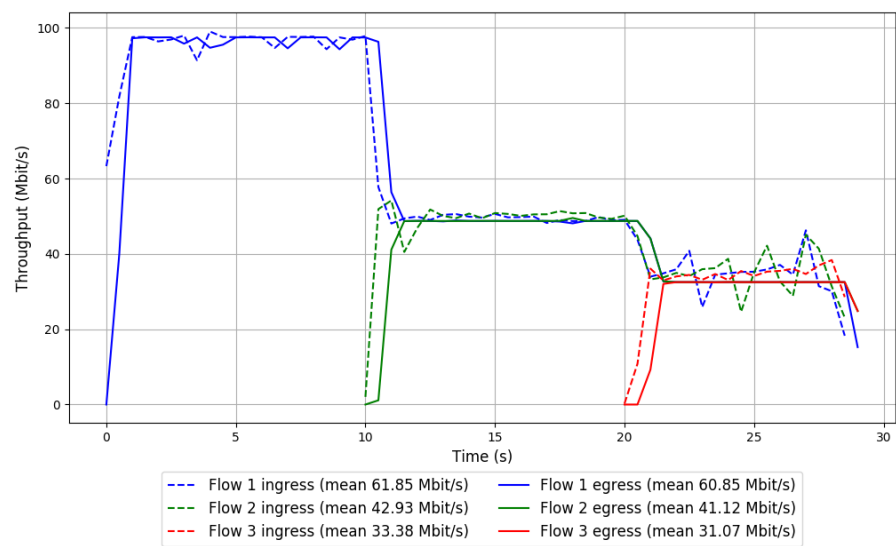
-- Flow 3:

Average throughput: 31.07 Mbit/s

95th percentile per-packet one-way delay: 104.947 ms

Loss rate: 7.65%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-10-03 13:11:05

End at: 2019-10-03 13:11:35

Local clock offset: 0.117 ms

Remote clock offset: 7.392 ms

Below is generated by plot.py at 2019-10-03 16:39:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 163.046 ms

Loss rate: 2.64%

-- Flow 1:

Average throughput: 58.15 Mbit/s

95th percentile per-packet one-way delay: 121.141 ms

Loss rate: 2.10%

-- Flow 2:

Average throughput: 48.01 Mbit/s

95th percentile per-packet one-way delay: 103.705 ms

Loss rate: 2.49%

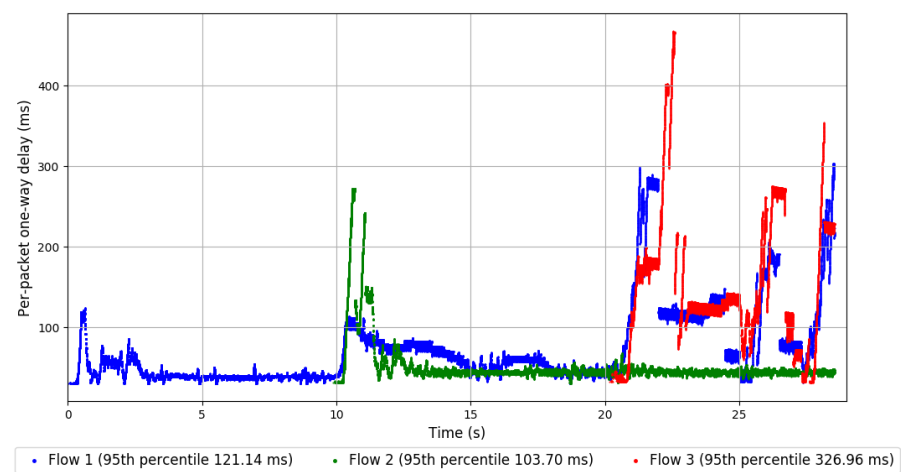
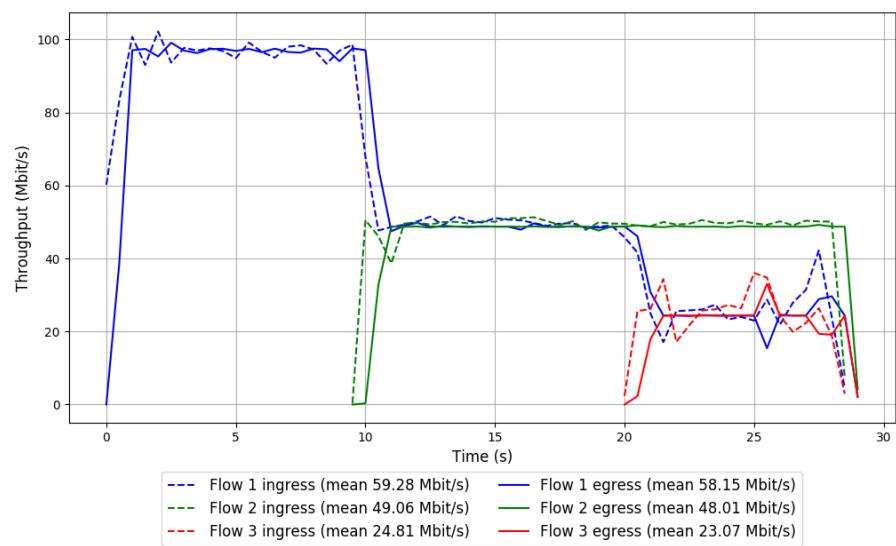
-- Flow 3:

Average throughput: 23.07 Mbit/s

95th percentile per-packet one-way delay: 326.963 ms

Loss rate: 7.66%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-10-03 14:26:23

End at: 2019-10-03 14:26:53

Local clock offset: 0.073 ms

Remote clock offset: 7.605 ms

Below is generated by plot.py at 2019-10-03 16:39:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 101.025 ms

Loss rate: 2.72%

-- Flow 1:

Average throughput: 65.70 Mbit/s

95th percentile per-packet one-way delay: 83.408 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 36.96 Mbit/s

95th percentile per-packet one-way delay: 155.646 ms

Loss rate: 6.63%

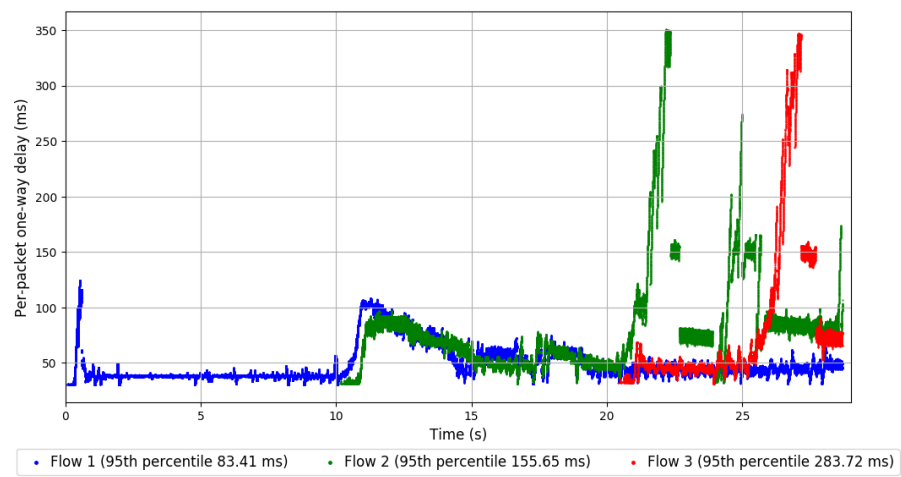
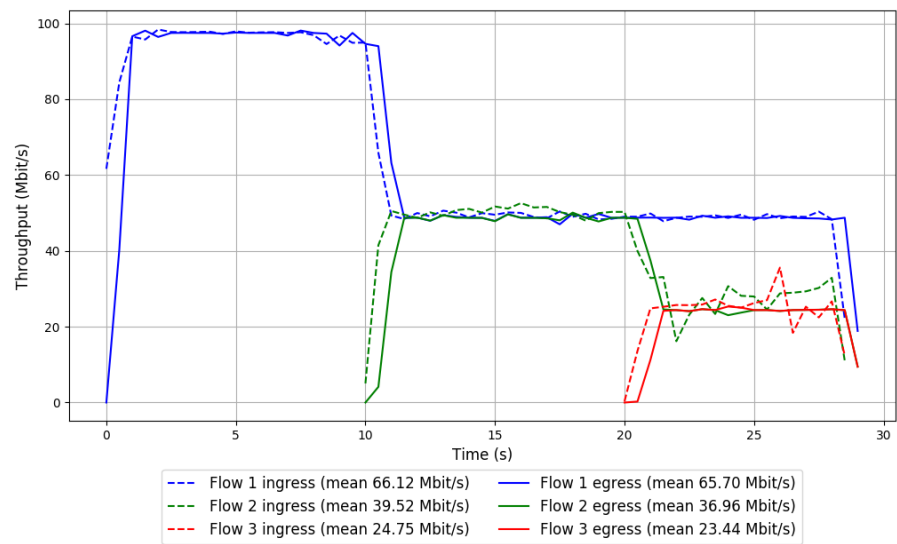
-- Flow 3:

Average throughput: 23.44 Mbit/s

95th percentile per-packet one-way delay: 283.720 ms

Loss rate: 6.03%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-10-03 15:50:39

End at: 2019-10-03 15:51:09

Local clock offset: -0.095 ms

Remote clock offset: 7.052 ms

Below is generated by plot.py at 2019-10-03 16:39:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.53 Mbit/s

95th percentile per-packet one-way delay: 150.211 ms

Loss rate: 3.28%

-- Flow 1:

Average throughput: 57.83 Mbit/s

95th percentile per-packet one-way delay: 104.187 ms

Loss rate: 2.49%

-- Flow 2:

Average throughput: 47.50 Mbit/s

95th percentile per-packet one-way delay: 86.098 ms

Loss rate: 3.53%

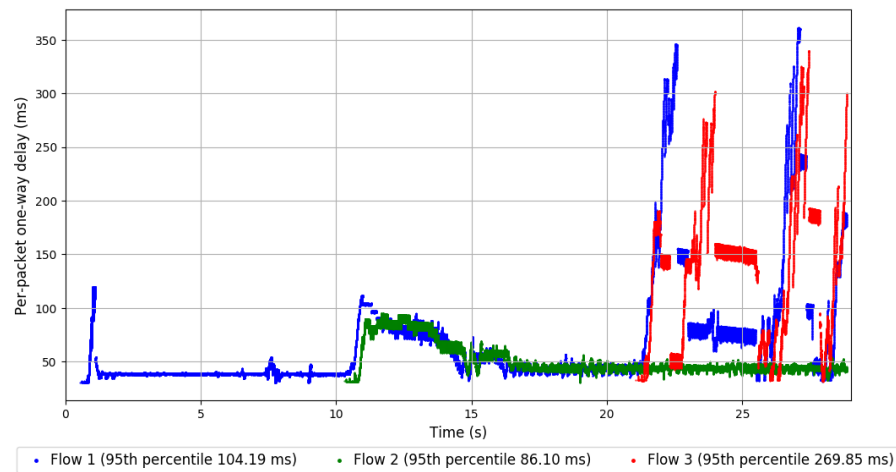
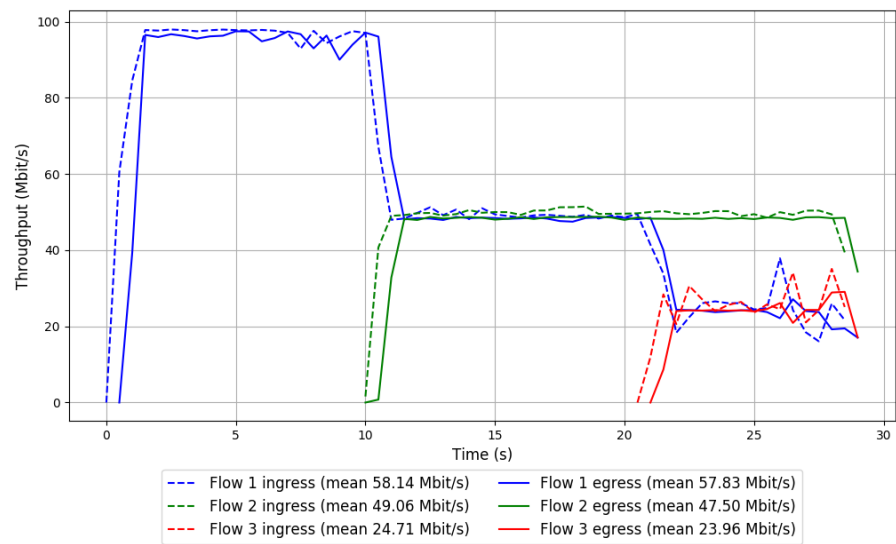
-- Flow 3:

Average throughput: 23.96 Mbit/s

95th percentile per-packet one-way delay: 269.848 ms

Loss rate: 8.65%

Run 5: Report of Indigo-MusesT — Data Link

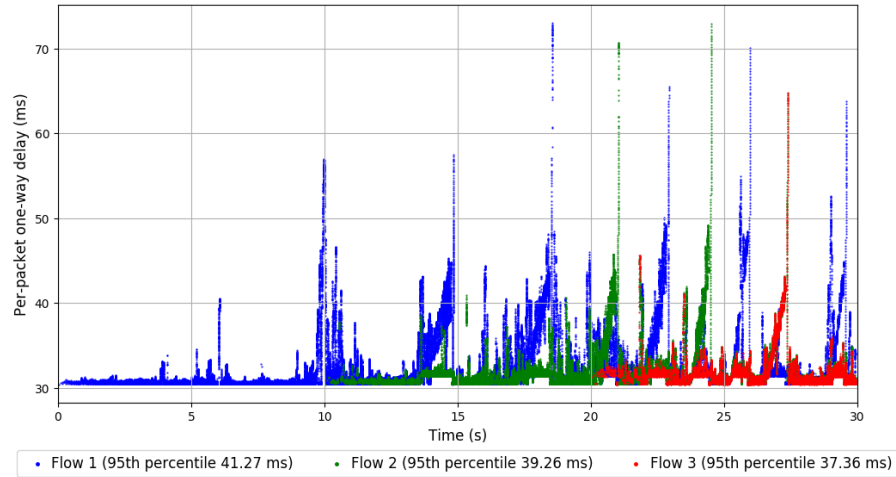
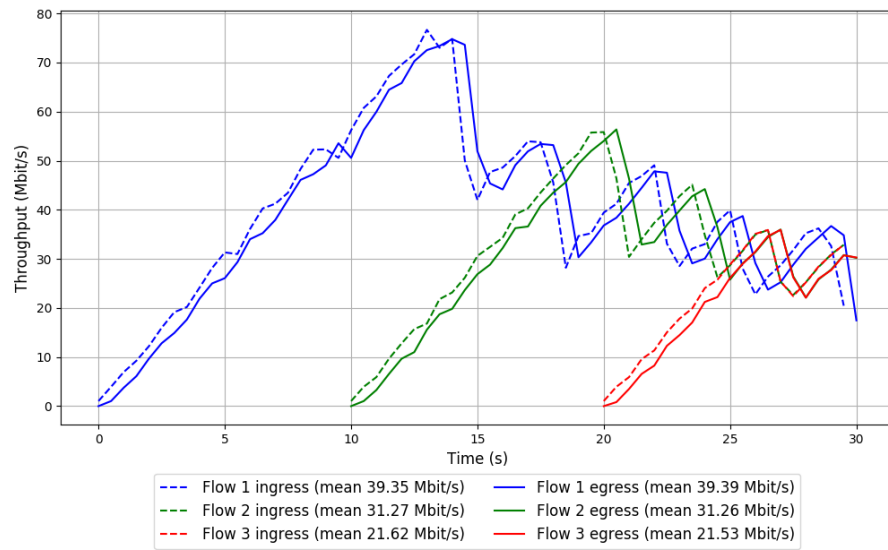


```
Run 1: Statistics of LEDBAT

Start at: 2019-10-03 11:42:19
End at: 2019-10-03 11:42:49
Local clock offset: 0.365 ms
Remote clock offset: 7.793 ms

# Below is generated by plot.py at 2019-10-03 16:39:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.31 Mbit/s
95th percentile per-packet one-way delay: 40.200 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 41.268 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 31.26 Mbit/s
95th percentile per-packet one-way delay: 39.262 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 21.53 Mbit/s
95th percentile per-packet one-way delay: 37.360 ms
Loss rate: 1.06%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-10-03 12:35:52

End at: 2019-10-03 12:36:22

Local clock offset: 0.261 ms

Remote clock offset: 7.741 ms

Below is generated by plot.py at 2019-10-03 16:39:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.03 Mbit/s

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

Loss rate: 0.32%

-- Flow 1:

Average throughput: 38.96 Mbit/s

95th percentile per-packet one-way delay: 38.485 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 30.13 Mbit/s

95th percentile per-packet one-way delay: 40.888 ms

Loss rate: 0.21%

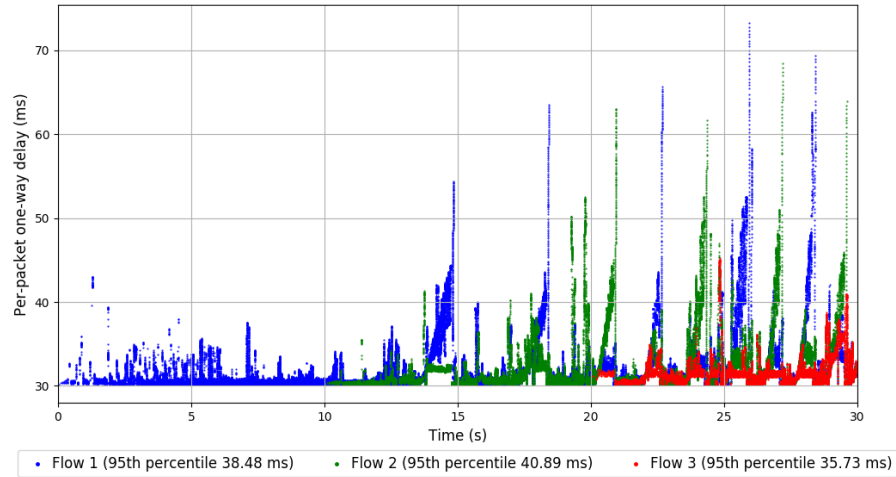
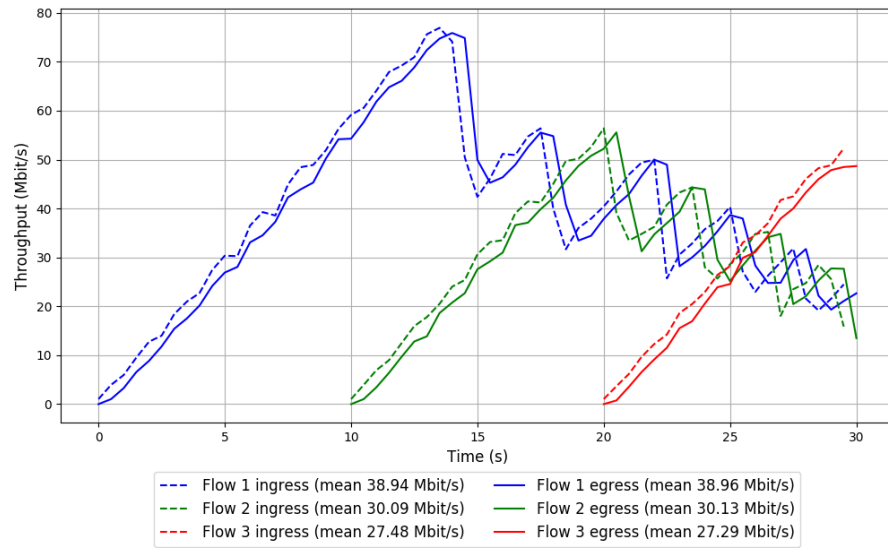
-- Flow 3:

Average throughput: 27.29 Mbit/s

95th percentile per-packet one-way delay: 35.730 ms

Loss rate: 1.31%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-10-03 13:38:44

End at: 2019-10-03 13:39:14

Local clock offset: -0.076 ms

Remote clock offset: 7.659 ms

Below is generated by plot.py at 2019-10-03 16:39:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.86 Mbit/s

95th percentile per-packet one-way delay: 39.601 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 40.13 Mbit/s

95th percentile per-packet one-way delay: 39.303 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 30.86 Mbit/s

95th percentile per-packet one-way delay: 40.196 ms

Loss rate: 0.37%

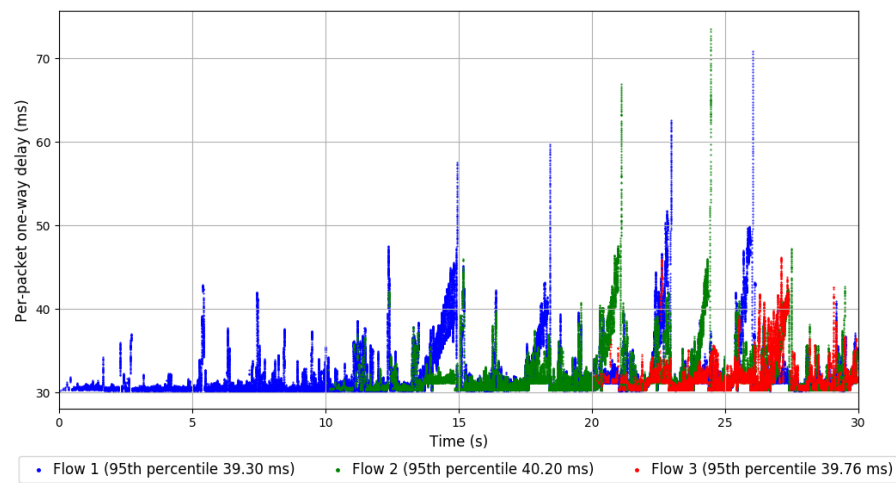
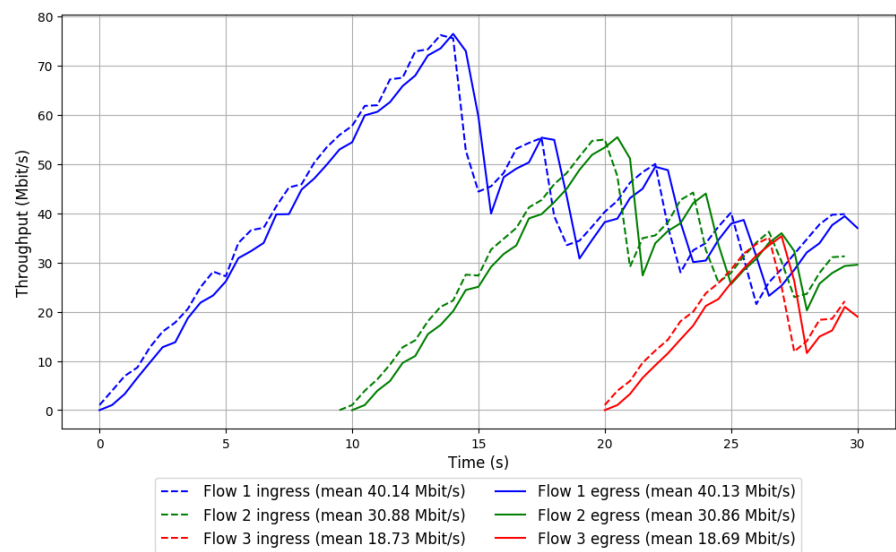
-- Flow 3:

Average throughput: 18.69 Mbit/s

95th percentile per-packet one-way delay: 39.758 ms

Loss rate: 0.86%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-10-03 15:00:05

End at: 2019-10-03 15:00:35

Local clock offset: 0.011 ms

Remote clock offset: 7.492 ms

Below is generated by plot.py at 2019-10-03 16:39:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.25 Mbit/s

95th percentile per-packet one-way delay: 41.096 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 38.46 Mbit/s

95th percentile per-packet one-way delay: 40.332 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 30.13 Mbit/s

95th percentile per-packet one-way delay: 43.615 ms

Loss rate: 0.19%

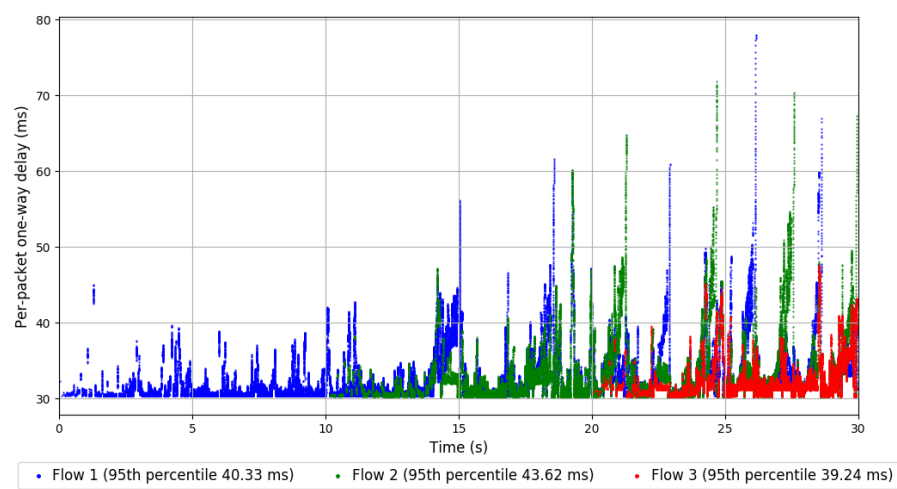
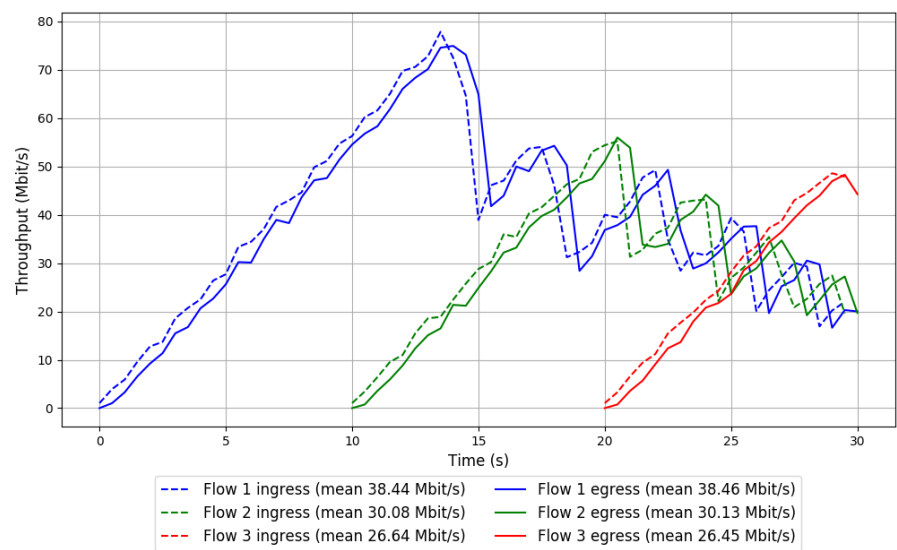
-- Flow 3:

Average throughput: 26.45 Mbit/s

95th percentile per-packet one-way delay: 39.240 ms

Loss rate: 1.33%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-10-03 16:15:42

End at: 2019-10-03 16:16:12

Local clock offset: -0.002 ms

Remote clock offset: 6.771 ms

Below is generated by plot.py at 2019-10-03 16:39:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.21 Mbit/s

95th percentile per-packet one-way delay: 40.896 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 39.63 Mbit/s

95th percentile per-packet one-way delay: 42.038 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 30.76 Mbit/s

95th percentile per-packet one-way delay: 39.851 ms

Loss rate: 0.36%

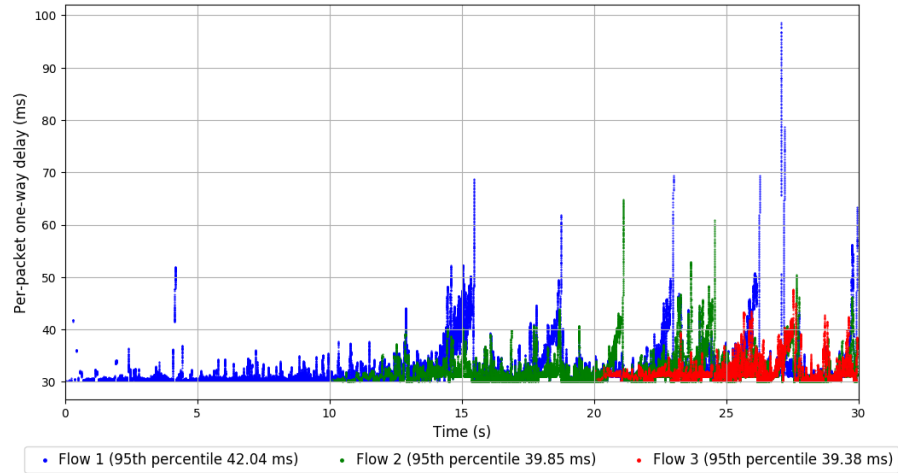
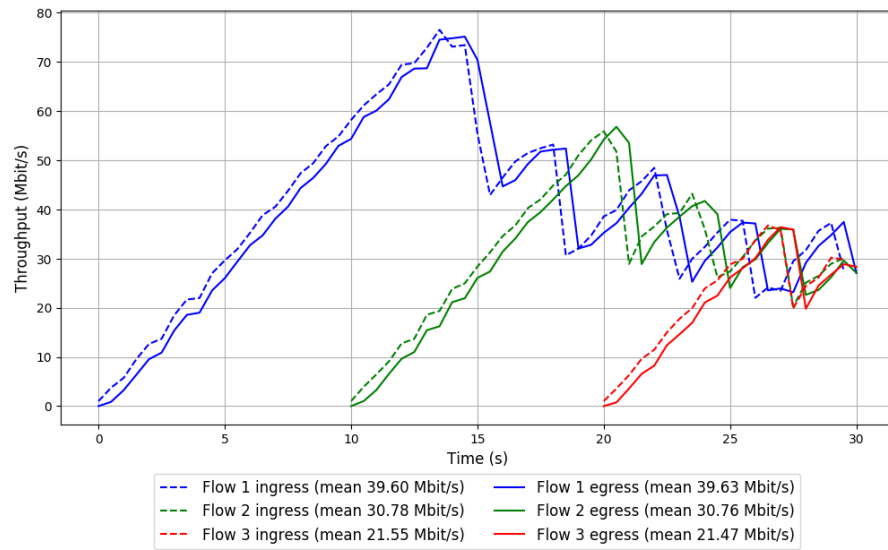
-- Flow 3:

Average throughput: 21.47 Mbit/s

95th percentile per-packet one-way delay: 39.377 ms

Loss rate: 1.03%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-10-03 11:09:10

End at: 2019-10-03 11:09:40

Local clock offset: 0.413 ms

Remote clock offset: 6.98 ms

Below is generated by plot.py at 2019-10-03 16:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.12 Mbit/s

95th percentile per-packet one-way delay: 45.238 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 55.54 Mbit/s

95th percentile per-packet one-way delay: 43.137 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 40.47 Mbit/s

95th percentile per-packet one-way delay: 46.528 ms

Loss rate: 0.31%

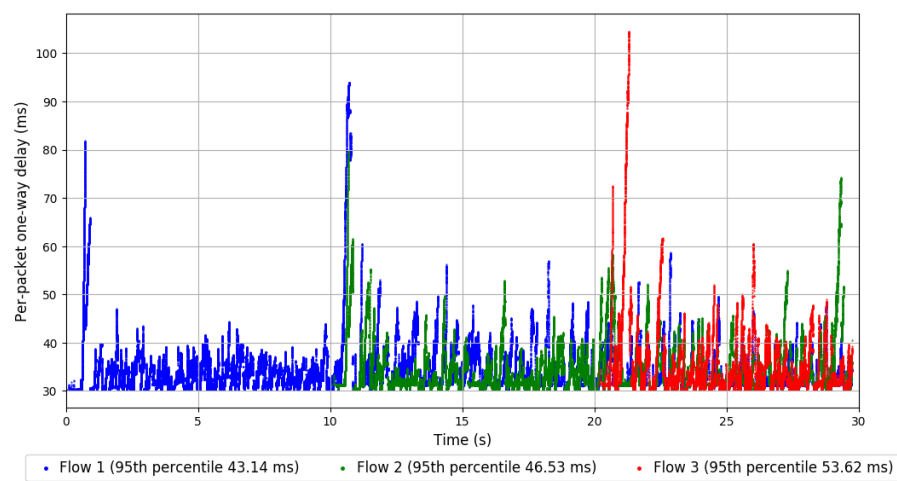
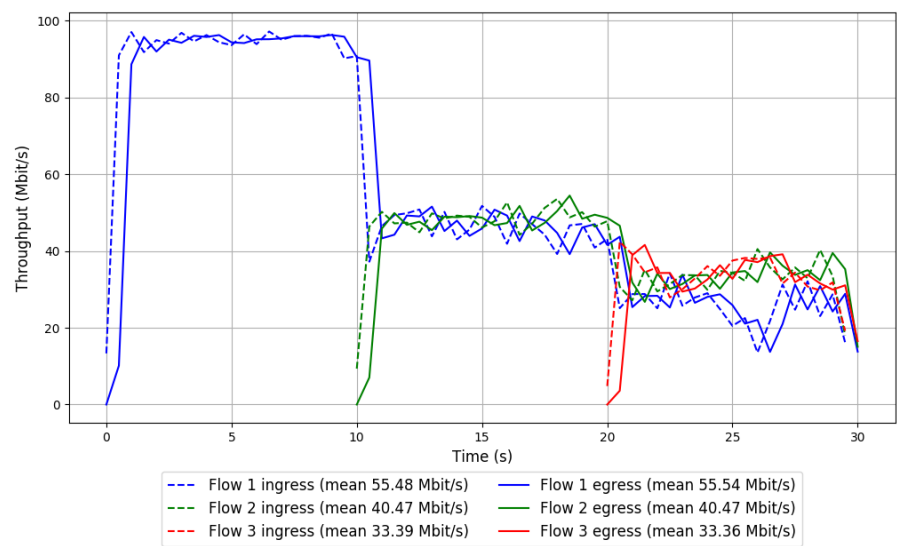
-- Flow 3:

Average throughput: 33.36 Mbit/s

95th percentile per-packet one-way delay: 53.618 ms

Loss rate: 0.77%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-10-03 11:59:31

End at: 2019-10-03 12:00:01

Local clock offset: 0.337 ms

Remote clock offset: 7.797 ms

Below is generated by plot.py at 2019-10-03 16:40:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 45.751 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 52.07 Mbit/s

95th percentile per-packet one-way delay: 44.545 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 47.09 Mbit/s

95th percentile per-packet one-way delay: 44.771 ms

Loss rate: 0.34%

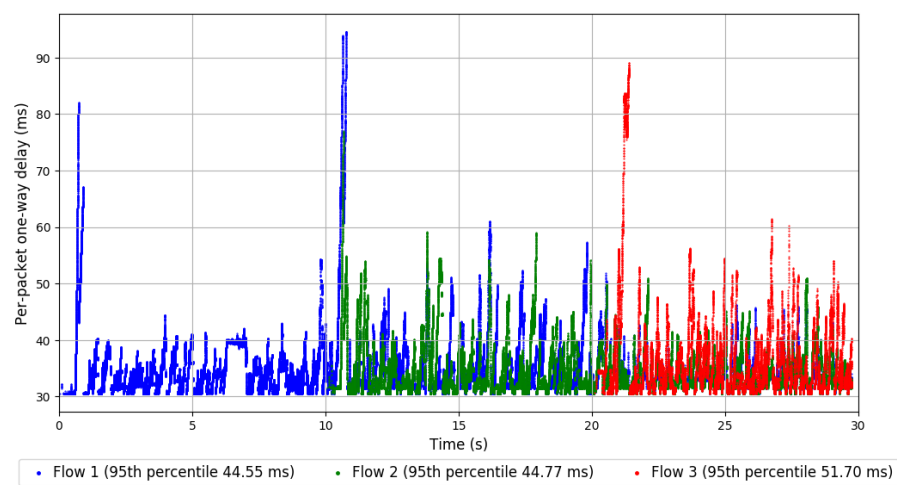
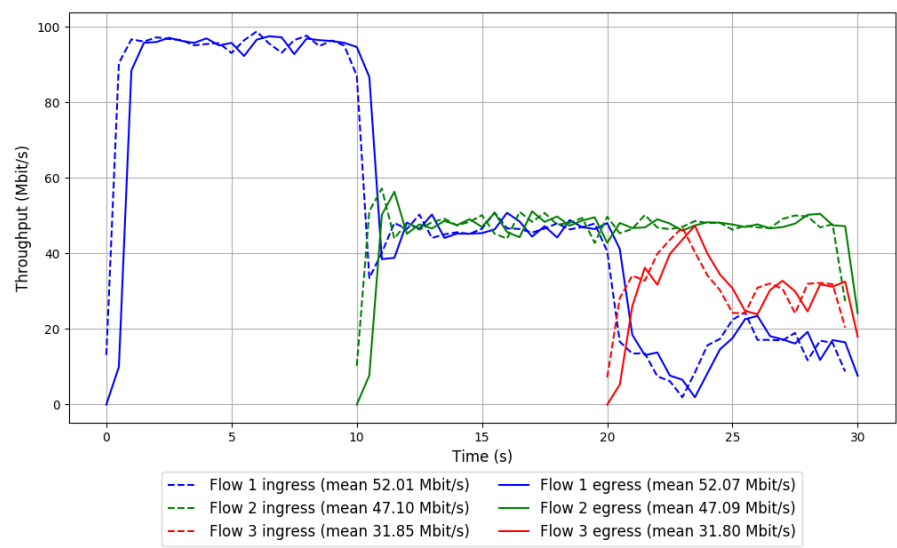
-- Flow 3:

Average throughput: 31.80 Mbit/s

95th percentile per-packet one-way delay: 51.701 ms

Loss rate: 0.80%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-10-03 12:57:00

End at: 2019-10-03 12:57:30

Local clock offset: 0.19 ms

Remote clock offset: 7.321 ms

Below is generated by plot.py at 2019-10-03 16:40:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 44.547 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 52.42 Mbit/s

95th percentile per-packet one-way delay: 44.130 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 47.49 Mbit/s

95th percentile per-packet one-way delay: 43.721 ms

Loss rate: 0.38%

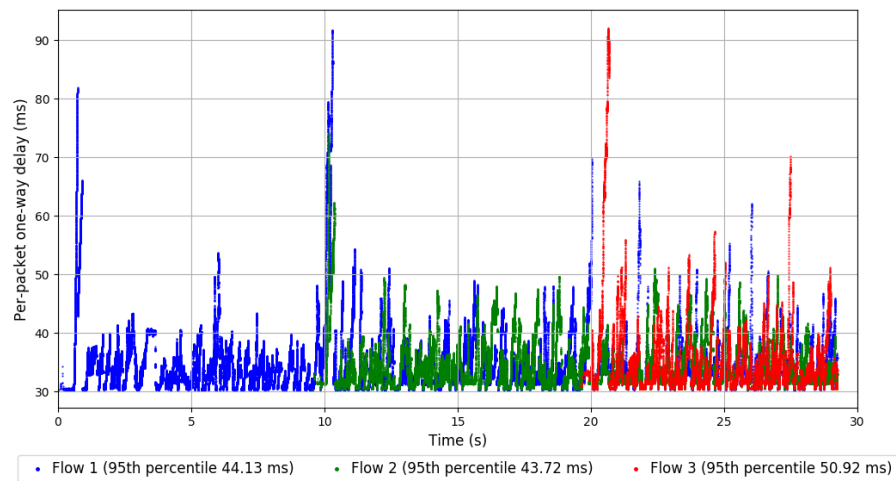
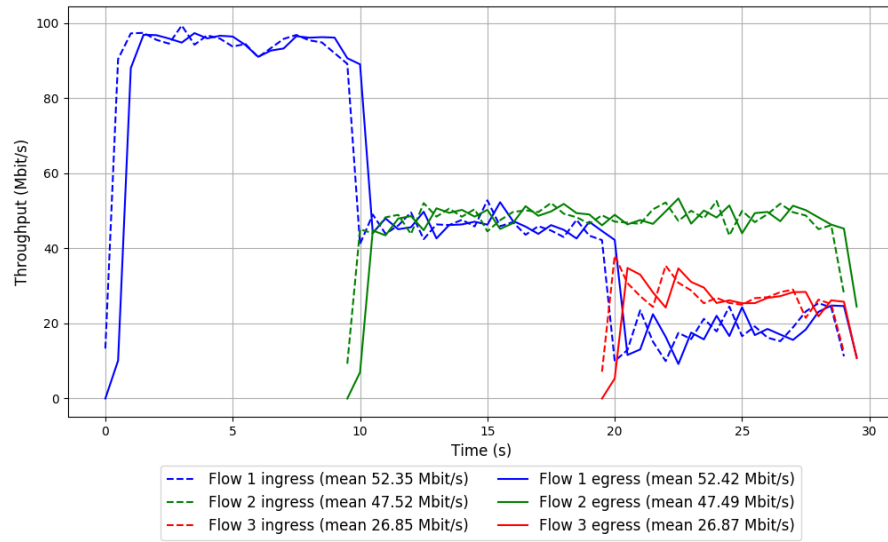
-- Flow 3:

Average throughput: 26.87 Mbit/s

95th percentile per-packet one-way delay: 50.922 ms

Loss rate: 0.57%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-10-03 14:07:28

End at: 2019-10-03 14:07:58

Local clock offset: 0.049 ms

Remote clock offset: 7.447 ms

Below is generated by plot.py at 2019-10-03 16:40:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.16 Mbit/s

95th percentile per-packet one-way delay: 45.059 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 53.75 Mbit/s

95th percentile per-packet one-way delay: 44.072 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 39.19 Mbit/s

95th percentile per-packet one-way delay: 44.867 ms

Loss rate: 0.19%

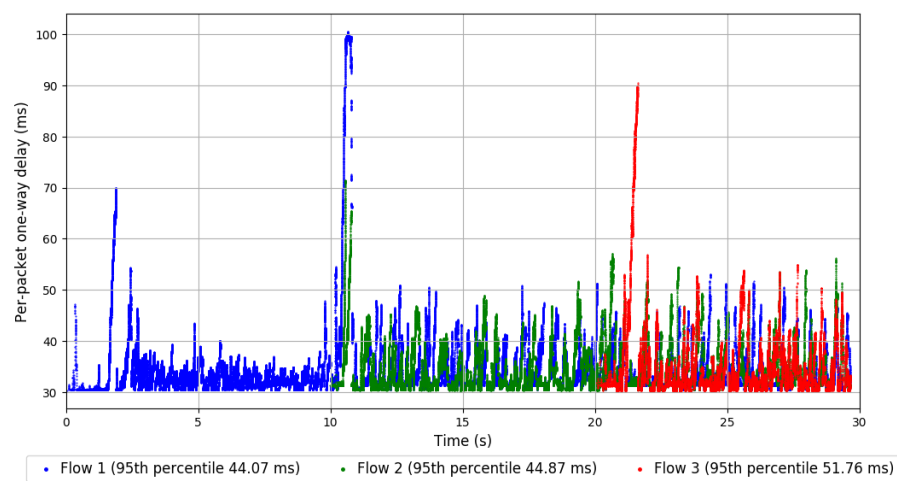
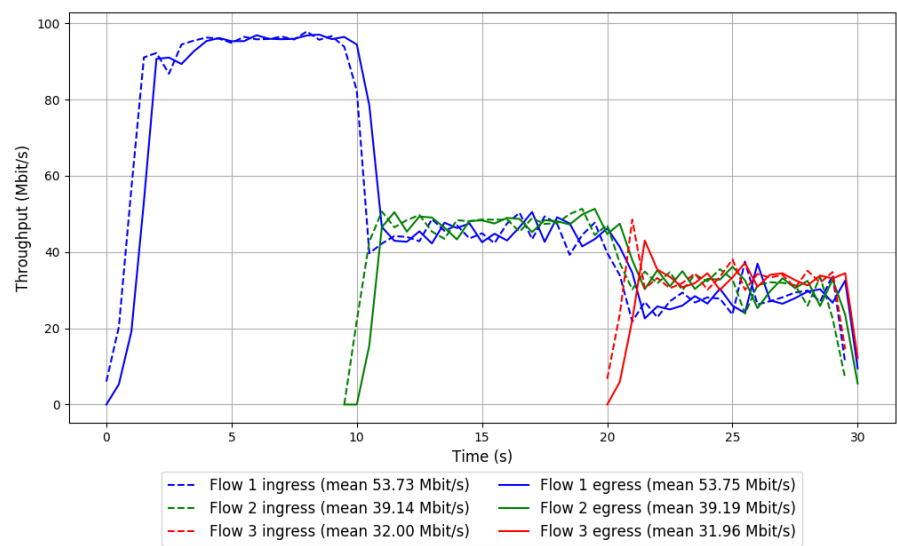
-- Flow 3:

Average throughput: 31.96 Mbit/s

95th percentile per-packet one-way delay: 51.757 ms

Loss rate: 0.82%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-10-03 15:36:15

End at: 2019-10-03 15:36:45

Local clock offset: -0.084 ms

Remote clock offset: 7.24 ms

Below is generated by plot.py at 2019-10-03 16:40:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.47 Mbit/s

95th percentile per-packet one-way delay: 43.415 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 54.96 Mbit/s

95th percentile per-packet one-way delay: 41.580 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 44.10 Mbit/s

95th percentile per-packet one-way delay: 43.888 ms

Loss rate: 0.33%

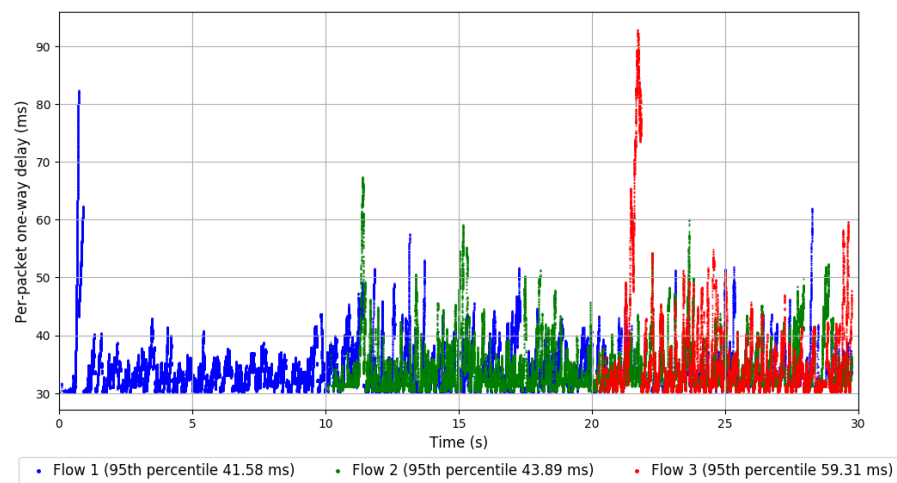
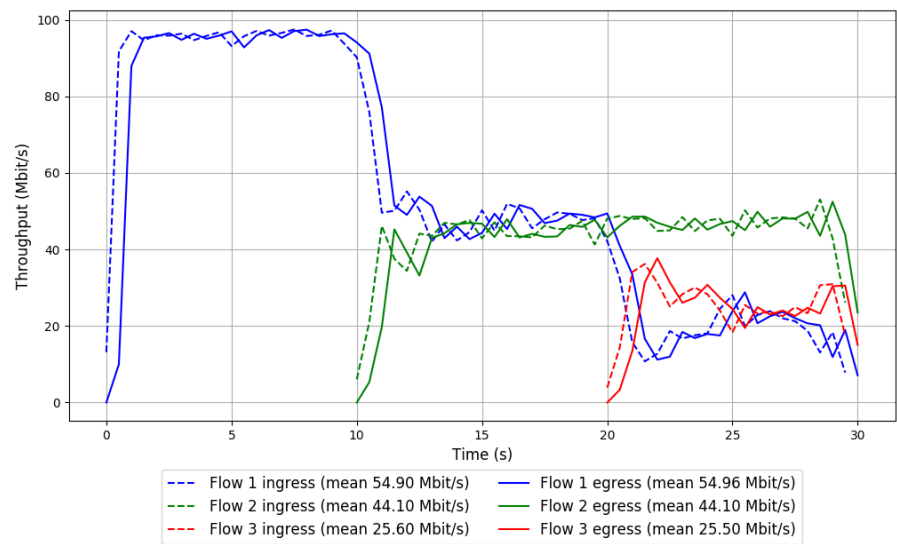
-- Flow 3:

Average throughput: 25.50 Mbit/s

95th percentile per-packet one-way delay: 59.310 ms

Loss rate: 1.01%

Run 5: Report of Muses_DecisionTree — Data Link

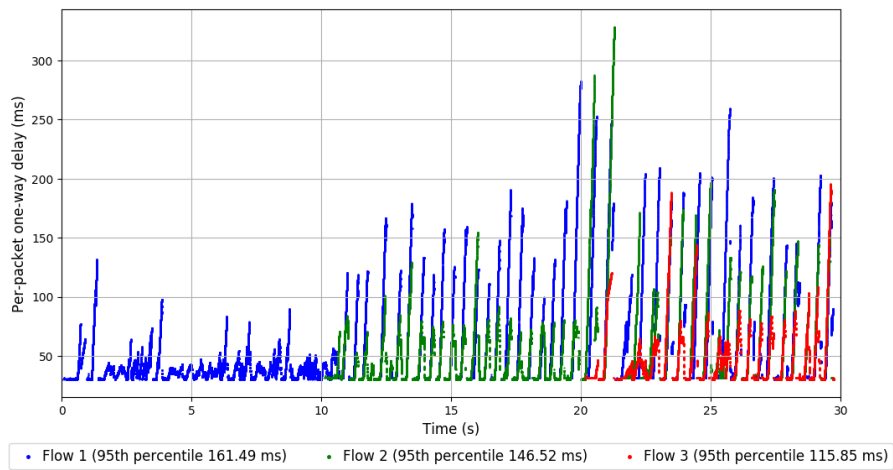
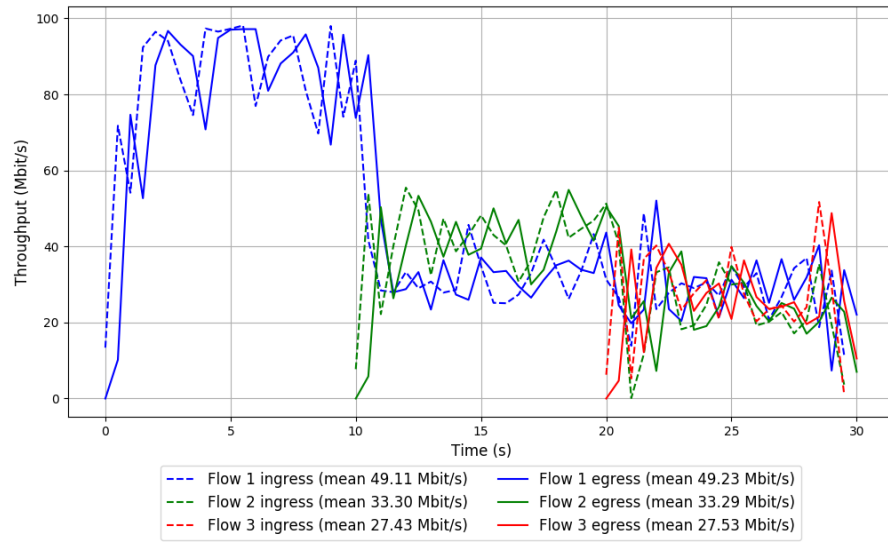



```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 11:36:08
End at: 2019-10-03 11:36:38
Local clock offset: 0.352 ms
Remote clock offset: 7.82 ms

# Below is generated by plot.py at 2019-10-03 16:40:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.11 Mbit/s
95th percentile per-packet one-way delay: 155.098 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 49.23 Mbit/s
95th percentile per-packet one-way delay: 161.490 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 33.29 Mbit/s
95th percentile per-packet one-way delay: 146.520 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 27.53 Mbit/s
95th percentile per-packet one-way delay: 115.850 ms
Loss rate: 0.26%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 12:28:25

End at: 2019-10-03 12:28:55

Local clock offset: 0.237 ms

Remote clock offset: 7.96 ms

Below is generated by plot.py at 2019-10-03 16:40:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.26 Mbit/s

95th percentile per-packet one-way delay: 166.727 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 51.04 Mbit/s

95th percentile per-packet one-way delay: 181.396 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 32.93 Mbit/s

95th percentile per-packet one-way delay: 156.306 ms

Loss rate: 0.65%

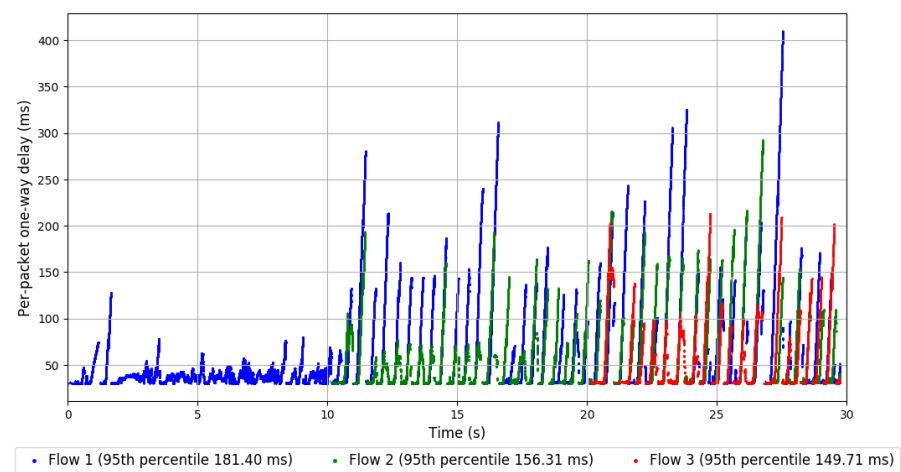
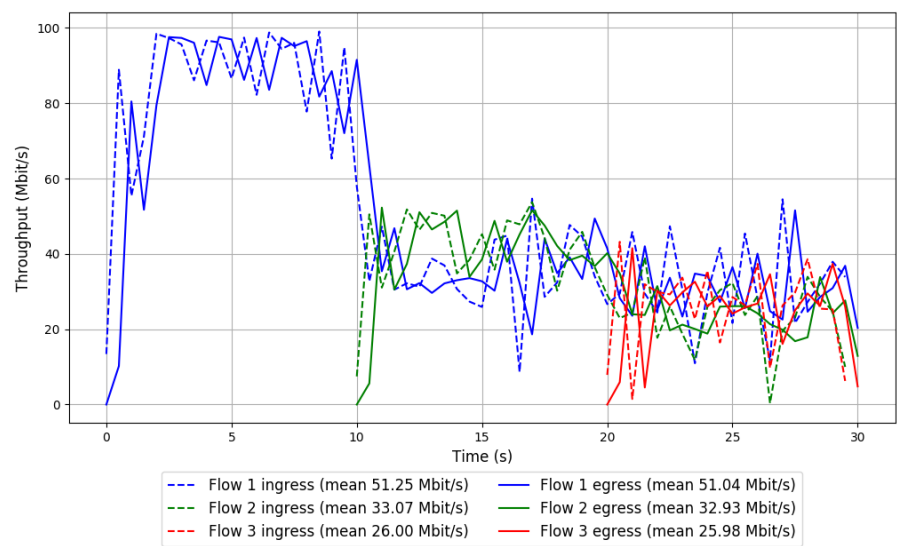
-- Flow 3:

Average throughput: 25.98 Mbit/s

95th percentile per-packet one-way delay: 149.711 ms

Loss rate: 0.72%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 13:29:52

End at: 2019-10-03 13:30:22

Local clock offset: -0.007 ms

Remote clock offset: 7.867 ms

Below is generated by plot.py at 2019-10-03 16:40:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.23 Mbit/s

95th percentile per-packet one-way delay: 186.335 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 48.86 Mbit/s

95th percentile per-packet one-way delay: 189.344 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 31.85 Mbit/s

95th percentile per-packet one-way delay: 194.621 ms

Loss rate: 0.21%

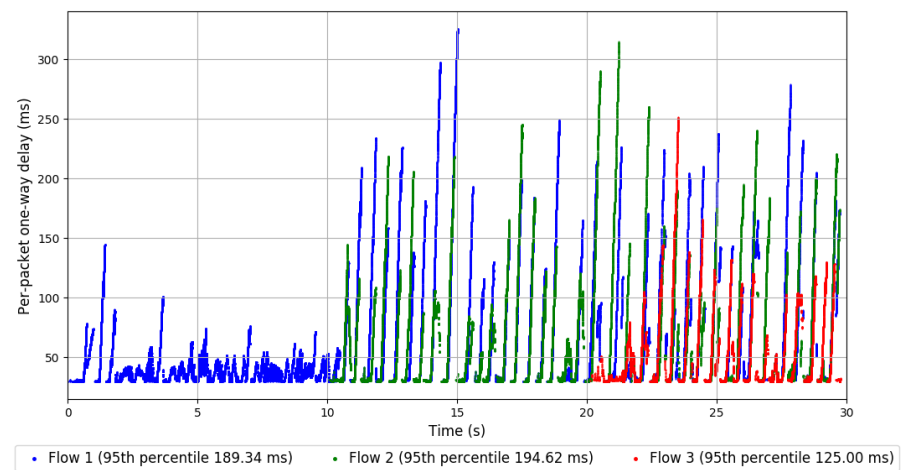
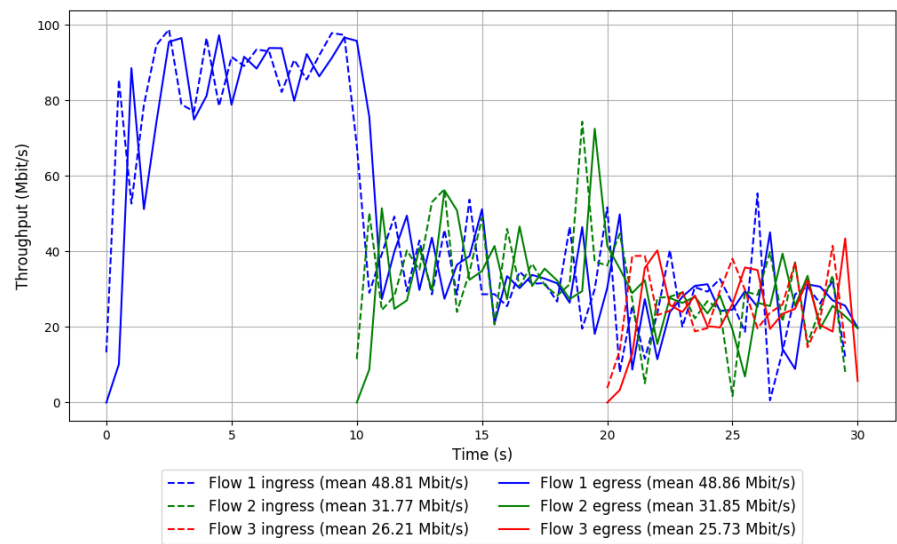
-- Flow 3:

Average throughput: 25.73 Mbit/s

95th percentile per-packet one-way delay: 125.000 ms

Loss rate: 2.45%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 14:47:12

End at: 2019-10-03 14:47:42

Local clock offset: -0.016 ms

Remote clock offset: 7.636 ms

Below is generated by plot.py at 2019-10-03 16:40:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.73 Mbit/s

95th percentile per-packet one-way delay: 156.990 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 46.70 Mbit/s

95th percentile per-packet one-way delay: 175.782 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 30.05 Mbit/s

95th percentile per-packet one-way delay: 151.414 ms

Loss rate: 0.39%

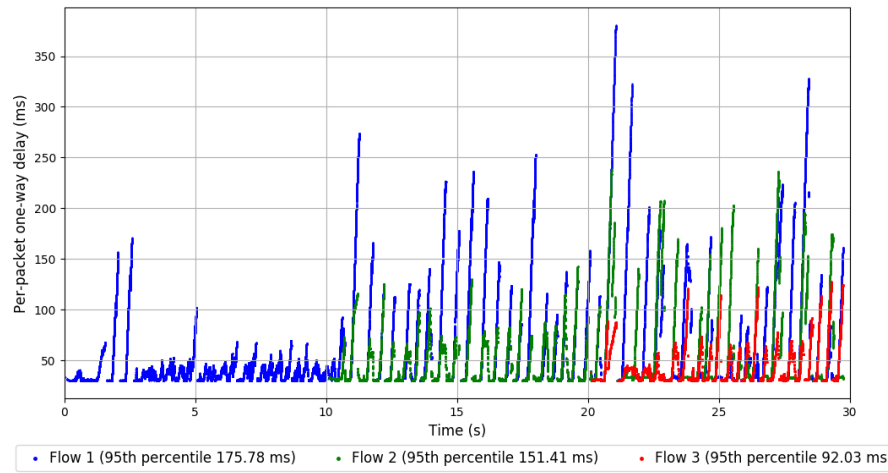
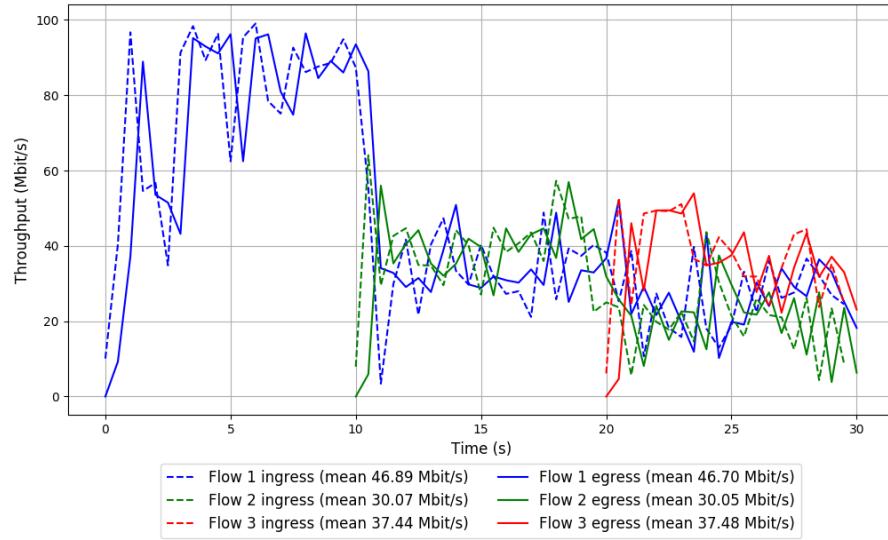
-- Flow 3:

Average throughput: 37.48 Mbit/s

95th percentile per-packet one-way delay: 92.032 ms

Loss rate: 0.69%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-10-03 16:06:50

End at: 2019-10-03 16:07:20

Local clock offset: 0.023 ms

Remote clock offset: 6.622 ms

Below is generated by plot.py at 2019-10-03 16:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.03 Mbit/s

95th percentile per-packet one-way delay: 143.213 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 50.48 Mbit/s

95th percentile per-packet one-way delay: 144.460 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 32.77 Mbit/s

95th percentile per-packet one-way delay: 148.234 ms

Loss rate: 0.16%

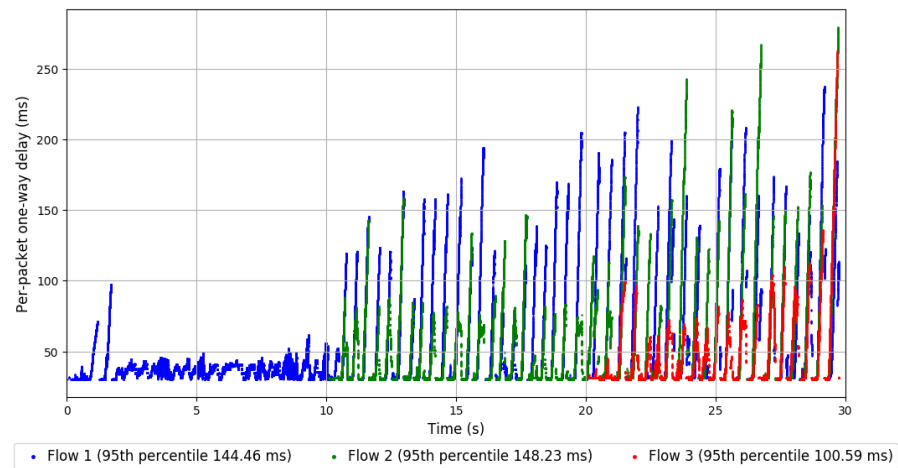
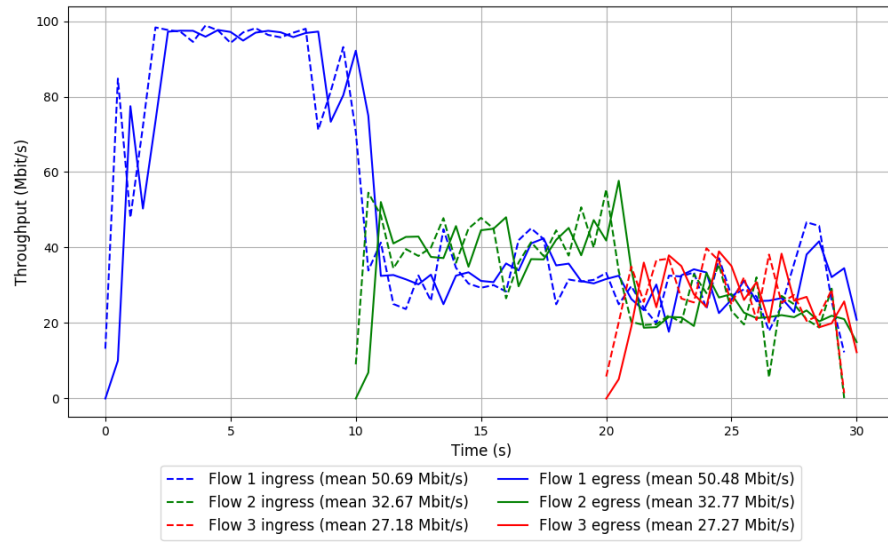
-- Flow 3:

Average throughput: 27.27 Mbit/s

95th percentile per-packet one-way delay: 100.592 ms

Loss rate: 0.33%

Run 5: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 11:37:57

End at: 2019-10-03 11:38:27

Local clock offset: 0.349 ms

Remote clock offset: 7.734 ms

Below is generated by plot.py at 2019-10-03 16:41:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 43.625 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 57.20 Mbit/s

95th percentile per-packet one-way delay: 42.048 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 39.87 Mbit/s

95th percentile per-packet one-way delay: 45.222 ms

Loss rate: 0.34%

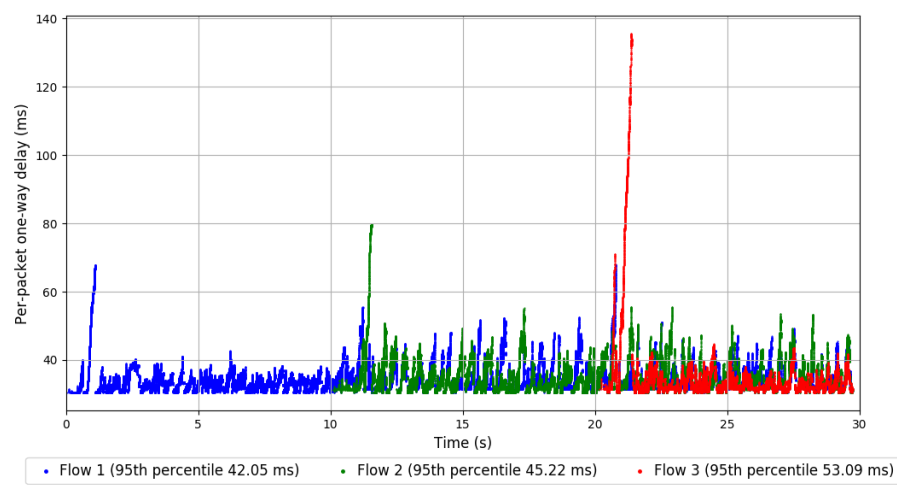
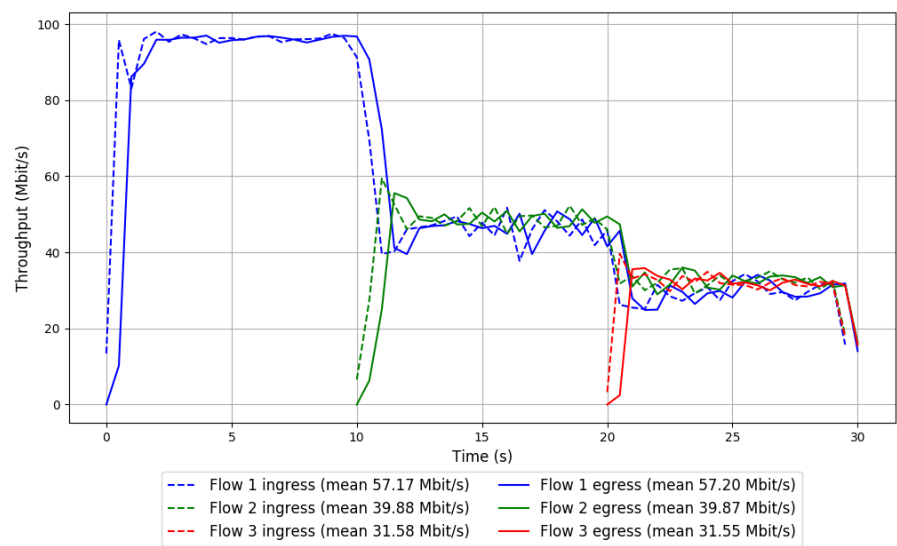
-- Flow 3:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 53.093 ms

Loss rate: 0.76%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 12:31:13

End at: 2019-10-03 12:31:43

Local clock offset: 0.232 ms

Remote clock offset: 7.799 ms

Below is generated by plot.py at 2019-10-03 16:41:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.63 Mbit/s

95th percentile per-packet one-way delay: 44.556 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 54.72 Mbit/s

95th percentile per-packet one-way delay: 44.425 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 47.14 Mbit/s

95th percentile per-packet one-way delay: 43.928 ms

Loss rate: 0.37%

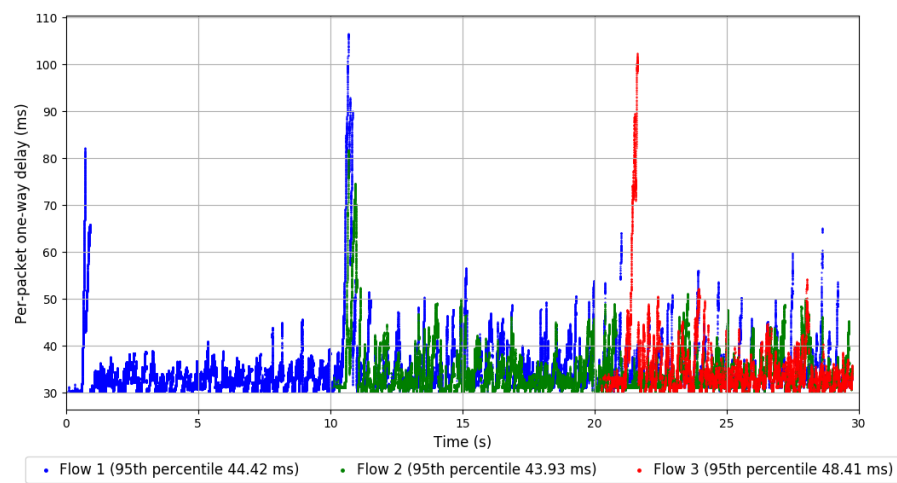
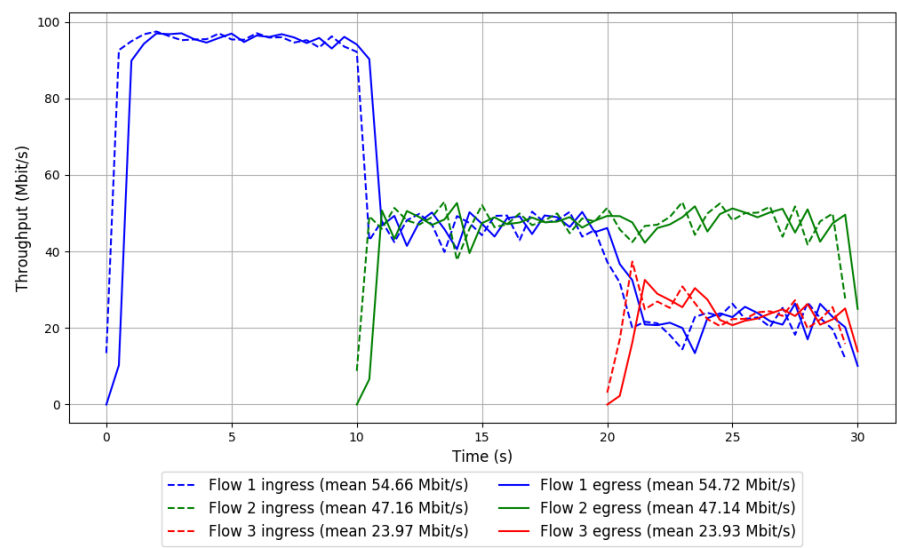
-- Flow 3:

Average throughput: 23.93 Mbit/s

95th percentile per-packet one-way delay: 48.415 ms

Loss rate: 0.85%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 13:32:24

End at: 2019-10-03 13:32:54

Local clock offset: -0.02 ms

Remote clock offset: 7.492 ms

Below is generated by plot.py at 2019-10-03 16:41:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.23 Mbit/s

95th percentile per-packet one-way delay: 47.926 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 54.95 Mbit/s

95th percentile per-packet one-way delay: 43.499 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 39.88 Mbit/s

95th percentile per-packet one-way delay: 68.699 ms

Loss rate: 0.35%

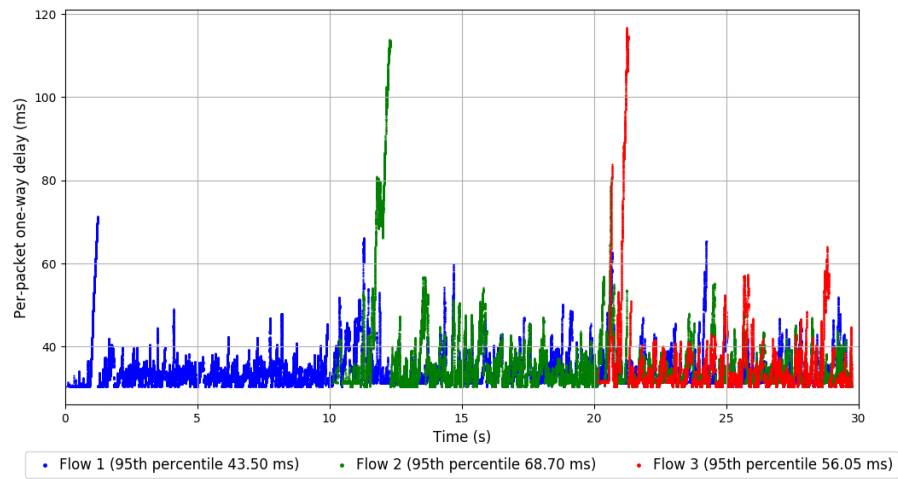
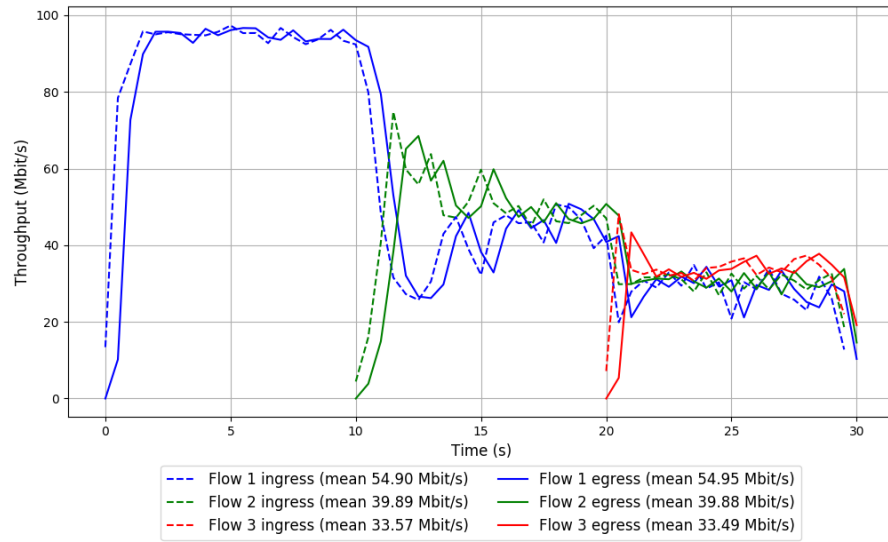
-- Flow 3:

Average throughput: 33.49 Mbit/s

95th percentile per-packet one-way delay: 56.048 ms

Loss rate: 0.95%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 14:49:44

End at: 2019-10-03 14:50:14

Local clock offset: -0.013 ms

Remote clock offset: 7.62 ms

Below is generated by plot.py at 2019-10-03 16:41:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.70 Mbit/s

95th percentile per-packet one-way delay: 46.648 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 44.109 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 33.74 Mbit/s

95th percentile per-packet one-way delay: 52.239 ms

Loss rate: 0.21%

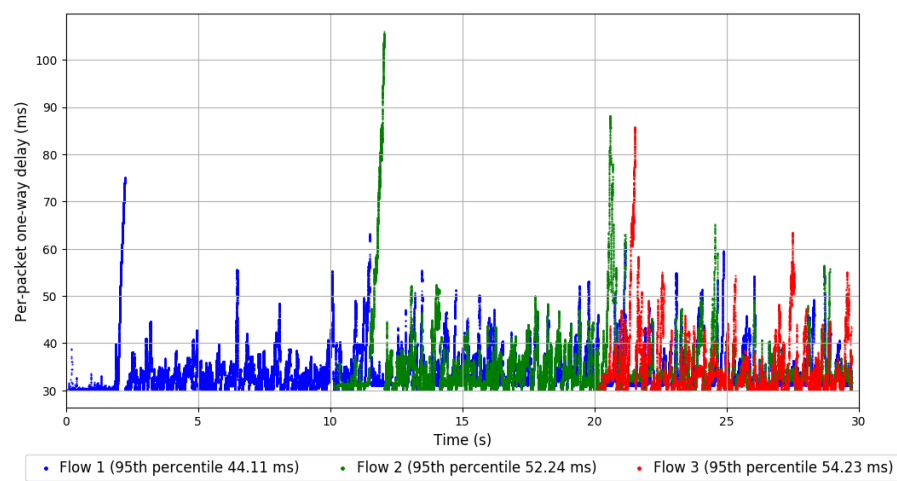
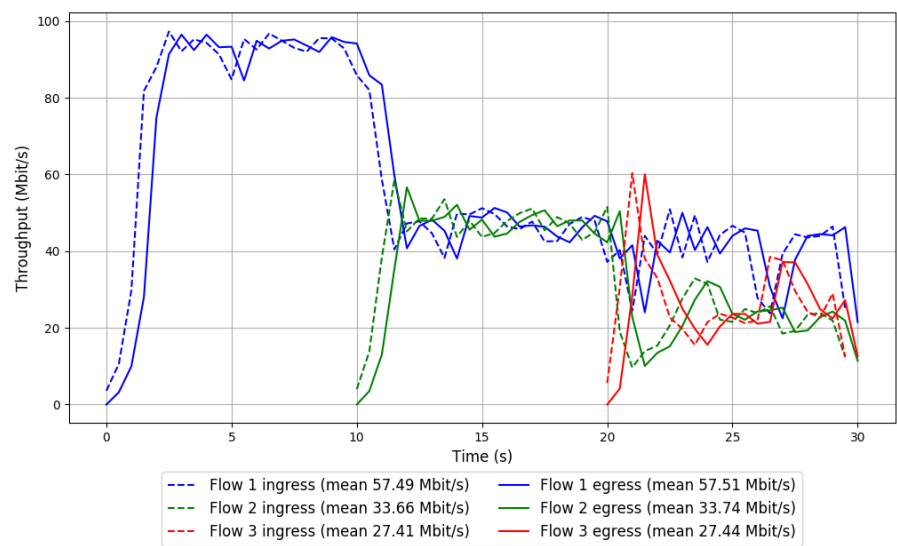
-- Flow 3:

Average throughput: 27.44 Mbit/s

95th percentile per-packet one-way delay: 54.234 ms

Loss rate: 0.57%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-10-03 16:08:53

End at: 2019-10-03 16:09:23

Local clock offset: 0.0 ms

Remote clock offset: 6.581 ms

Below is generated by plot.py at 2019-10-03 16:41:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 43.410 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 54.98 Mbit/s

95th percentile per-packet one-way delay: 41.853 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 34.98 Mbit/s

95th percentile per-packet one-way delay: 43.020 ms

Loss rate: 0.24%

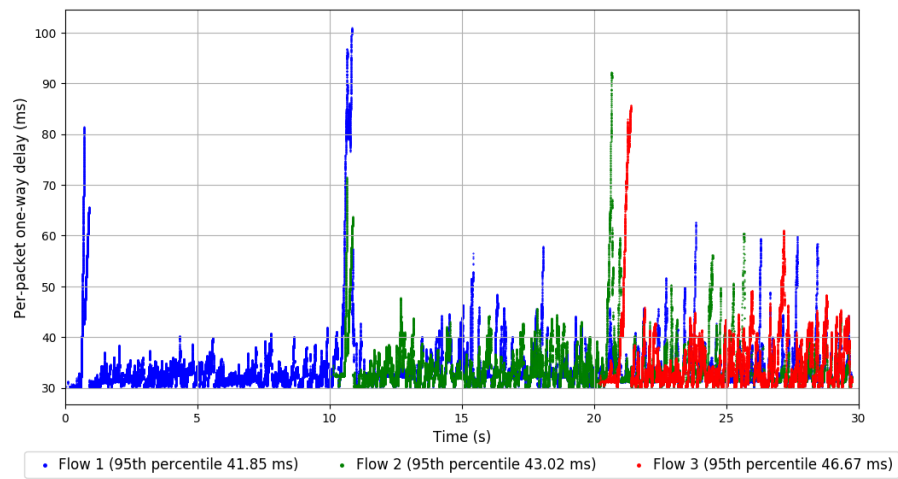
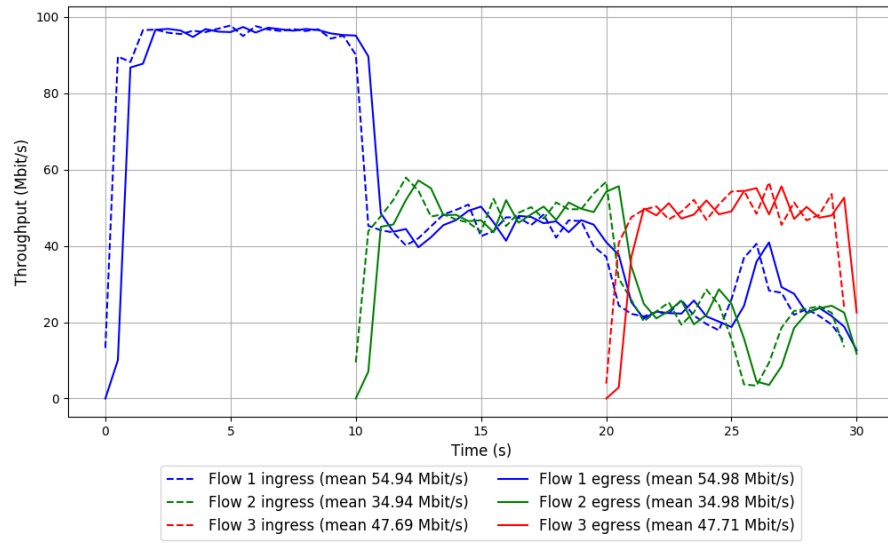
-- Flow 3:

Average throughput: 47.71 Mbit/s

95th percentile per-packet one-way delay: 46.666 ms

Loss rate: 0.63%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-10-03 11:13:57

End at: 2019-10-03 11:14:27

Local clock offset: 0.369 ms

Remote clock offset: 6.735 ms

Below is generated by plot.py at 2019-10-03 16:41:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.53 Mbit/s

95th percentile per-packet one-way delay: 2138.355 ms

Loss rate: 11.77%

-- Flow 1:

Average throughput: 54.81 Mbit/s

95th percentile per-packet one-way delay: 2159.659 ms

Loss rate: 11.08%

-- Flow 2:

Average throughput: 35.60 Mbit/s

95th percentile per-packet one-way delay: 2084.087 ms

Loss rate: 14.27%

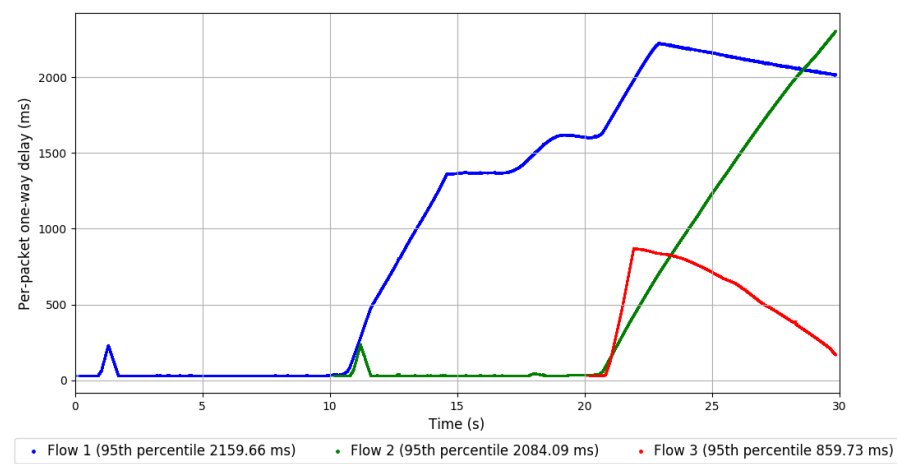
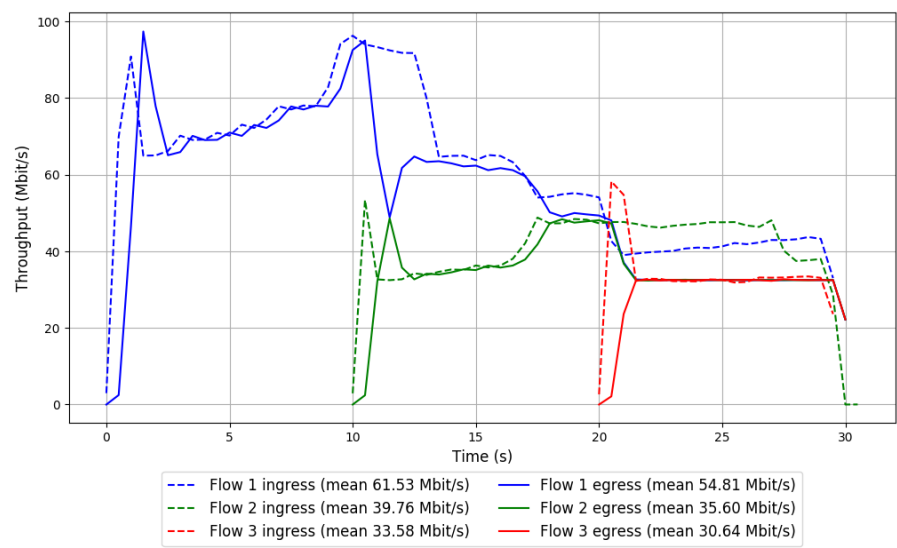
-- Flow 3:

Average throughput: 30.64 Mbit/s

95th percentile per-packet one-way delay: 859.733 ms

Loss rate: 9.34%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-10-03 12:04:06

End at: 2019-10-03 12:04:36

Local clock offset: 0.333 ms

Remote clock offset: 7.854 ms

Below is generated by plot.py at 2019-10-03 16:41:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 2154.566 ms

Loss rate: 11.97%

-- Flow 1:

Average throughput: 53.34 Mbit/s

95th percentile per-packet one-way delay: 2166.519 ms

Loss rate: 11.22%

-- Flow 2:

Average throughput: 35.93 Mbit/s

95th percentile per-packet one-way delay: 2146.785 ms

Loss rate: 14.04%

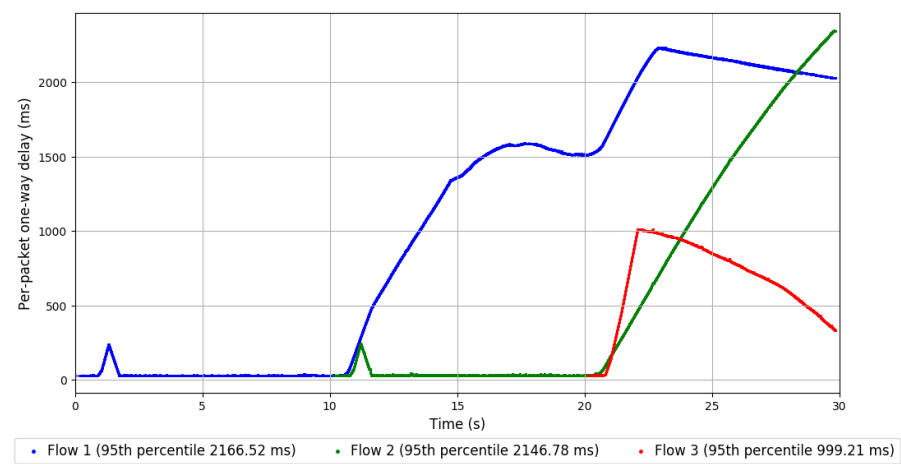
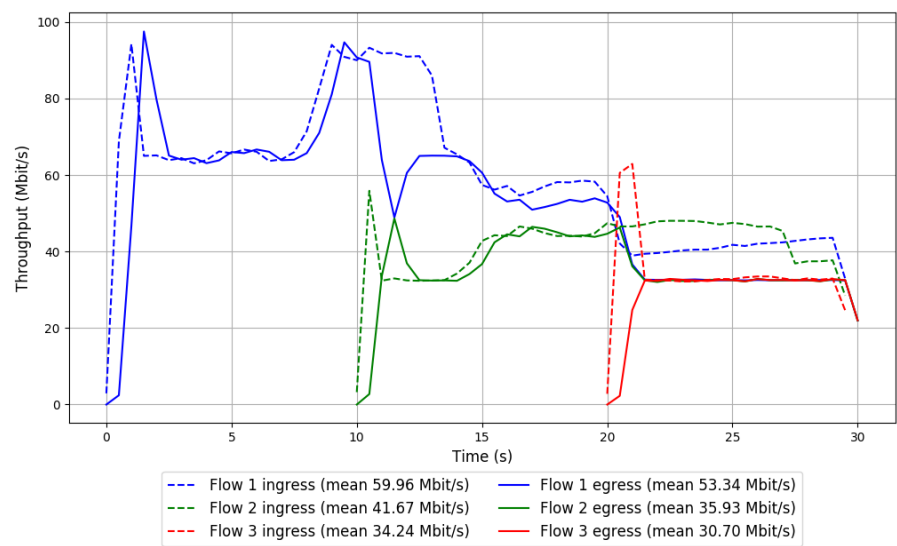
-- Flow 3:

Average throughput: 30.70 Mbit/s

95th percentile per-packet one-way delay: 999.212 ms

Loss rate: 10.90%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-10-03 13:01:36

End at: 2019-10-03 13:02:06

Local clock offset: 0.159 ms

Remote clock offset: 7.352 ms

Below is generated by plot.py at 2019-10-03 16:42:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.13 Mbit/s

95th percentile per-packet one-way delay: 1740.096 ms

Loss rate: 8.05%

-- Flow 1:

Average throughput: 61.45 Mbit/s

95th percentile per-packet one-way delay: 1887.918 ms

Loss rate: 9.97%

-- Flow 2:

Average throughput: 37.51 Mbit/s

95th percentile per-packet one-way delay: 445.192 ms

Loss rate: 4.55%

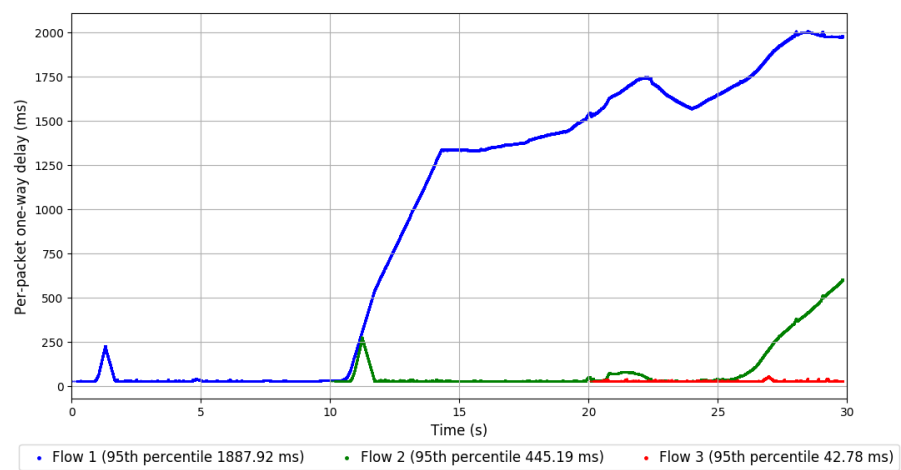
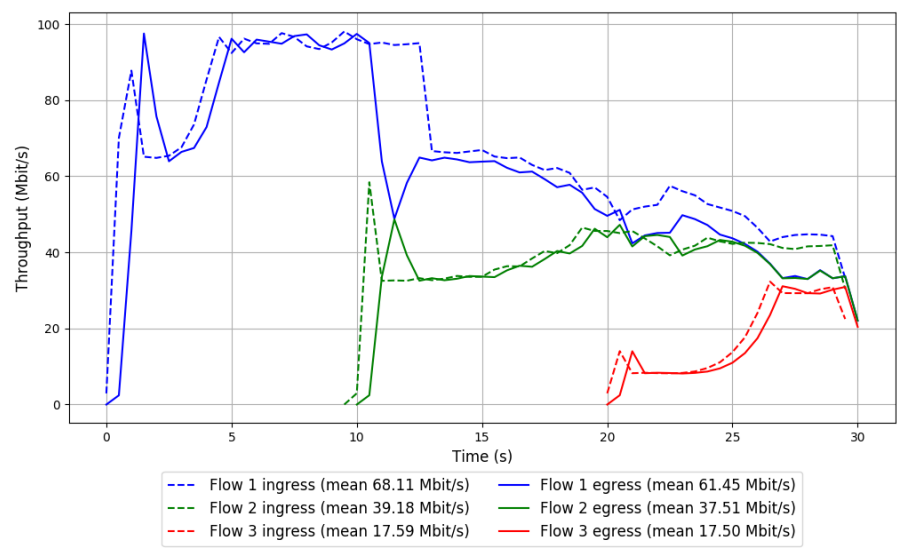
-- Flow 3:

Average throughput: 17.50 Mbit/s

95th percentile per-packet one-way delay: 42.780 ms

Loss rate: 1.19%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-10-03 14:13:16

End at: 2019-10-03 14:13:46

Local clock offset: 0.032 ms

Remote clock offset: 7.466 ms

Below is generated by plot.py at 2019-10-03 16:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.54 Mbit/s

95th percentile per-packet one-way delay: 2036.576 ms

Loss rate: 7.24%

-- Flow 1:

Average throughput: 56.04 Mbit/s

95th percentile per-packet one-way delay: 2127.097 ms

Loss rate: 10.87%

-- Flow 2:

Average throughput: 42.60 Mbit/s

95th percentile per-packet one-way delay: 40.975 ms

Loss rate: 0.39%

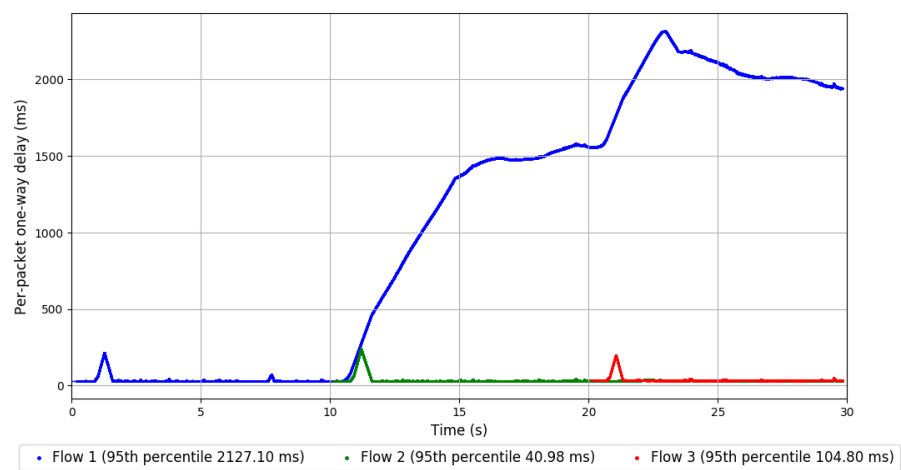
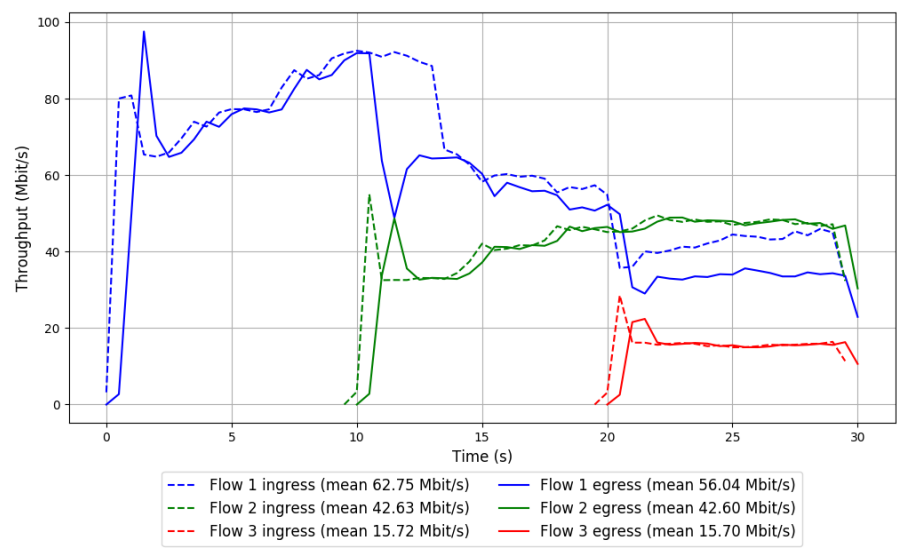
-- Flow 3:

Average throughput: 15.70 Mbit/s

95th percentile per-packet one-way delay: 104.804 ms

Loss rate: 0.78%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-10-03 15:44:18

End at: 2019-10-03 15:44:48

Local clock offset: -0.074 ms

Remote clock offset: 7.066 ms

Below is generated by plot.py at 2019-10-03 16:42:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.50 Mbit/s

95th percentile per-packet one-way delay: 1475.862 ms

Loss rate: 20.37%

-- Flow 1:

Average throughput: 55.36 Mbit/s

95th percentile per-packet one-way delay: 1778.516 ms

Loss rate: 24.94%

-- Flow 2:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 1456.849 ms

Loss rate: 16.81%

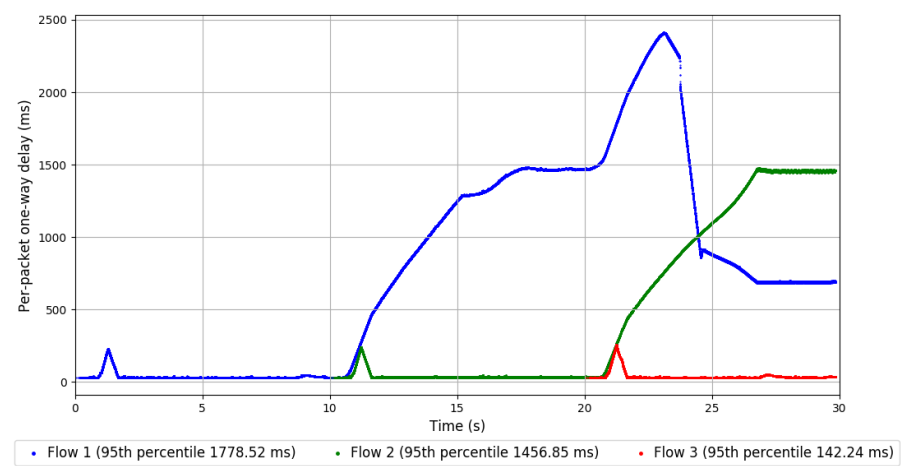
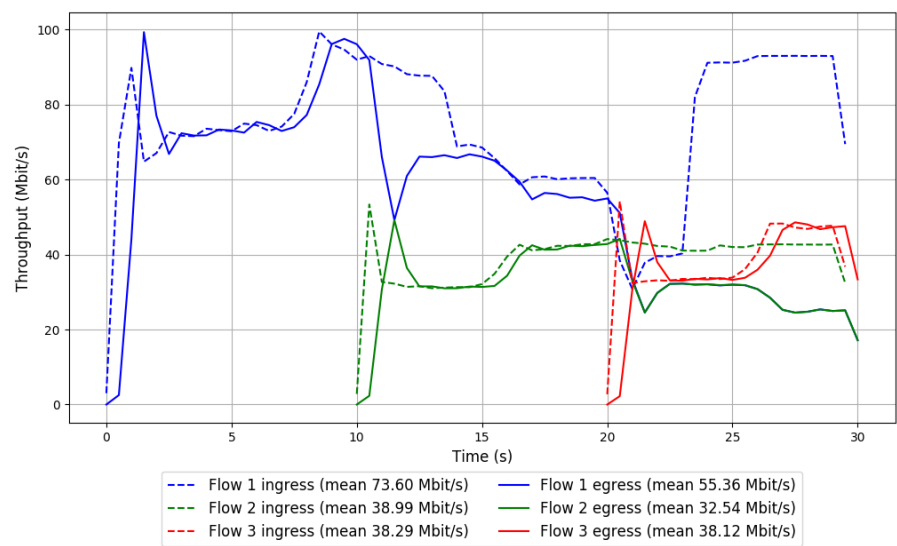
-- Flow 3:

Average throughput: 38.12 Mbit/s

95th percentile per-packet one-way delay: 142.236 ms

Loss rate: 1.09%

Run 5: Report of PCC-Allegro — Data Link

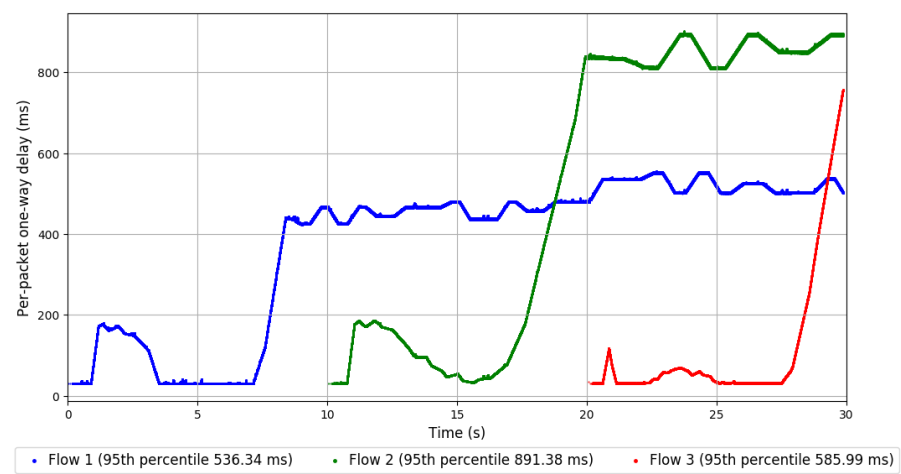
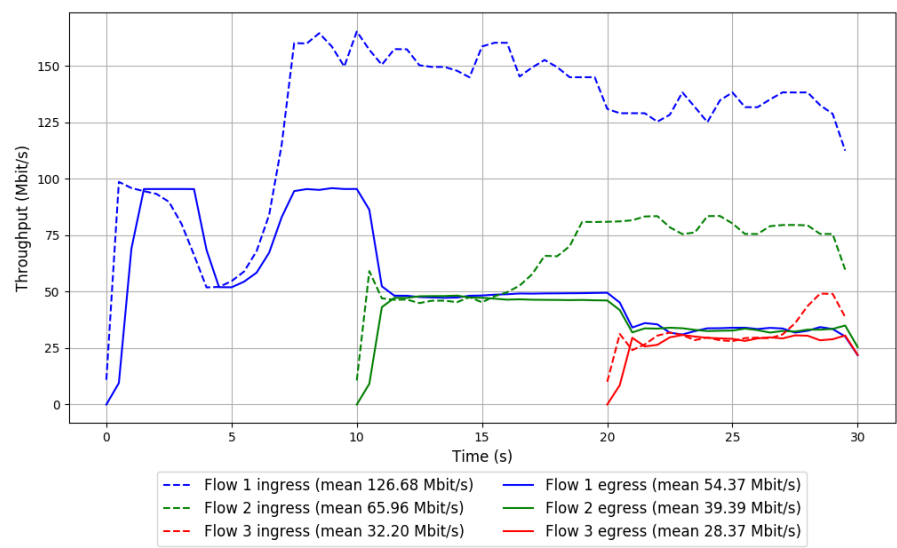


```
Run 1: Statistics of PCC-Expr

Start at: 2019-10-03 11:06:19
End at: 2019-10-03 11:06:49
Local clock offset: 0.402 ms
Remote clock offset: 6.858 ms

# Below is generated by plot.py at 2019-10-03 16:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 852.285 ms
Loss rate: 50.51%
-- Flow 1:
Average throughput: 54.37 Mbit/s
95th percentile per-packet one-way delay: 536.344 ms
Loss rate: 57.18%
-- Flow 2:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 891.385 ms
Loss rate: 40.49%
-- Flow 3:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 585.988 ms
Loss rate: 12.50%
```

Run 1: Report of PCC-Expr — Data Link

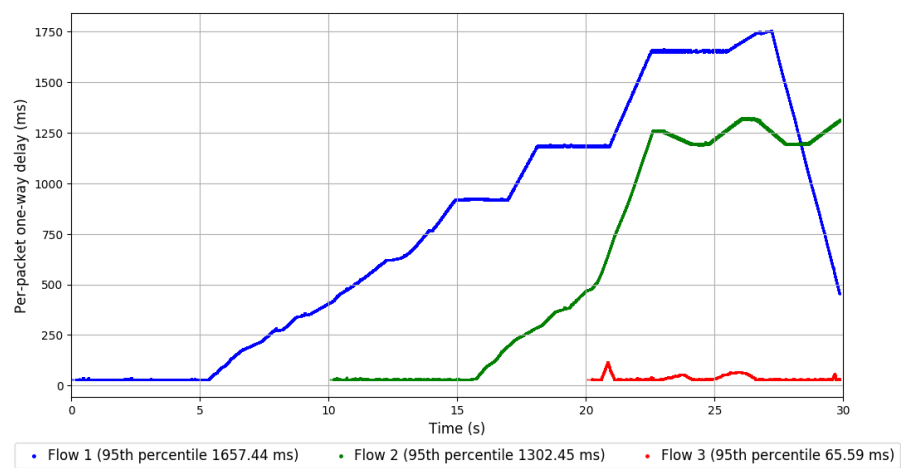
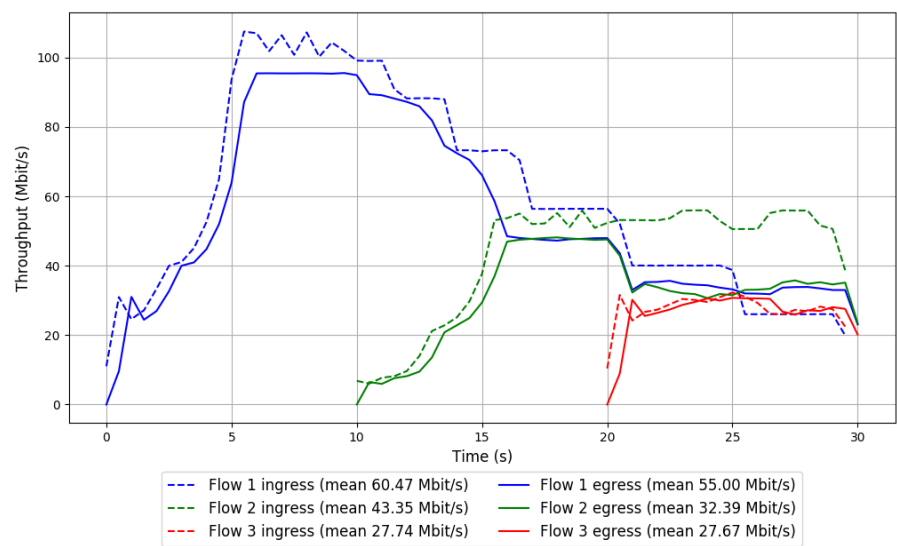



```
Run 2: Statistics of PCC-Expr

Start at: 2019-10-03 11:56:49
End at: 2019-10-03 11:57:19
Local clock offset: 0.349 ms
Remote clock offset: 7.899 ms

# Below is generated by plot.py at 2019-10-03 16:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.61 Mbit/s
95th percentile per-packet one-way delay: 1652.540 ms
Loss rate: 13.24%
-- Flow 1:
Average throughput: 55.00 Mbit/s
95th percentile per-packet one-way delay: 1657.440 ms
Loss rate: 9.25%
-- Flow 2:
Average throughput: 32.39 Mbit/s
95th percentile per-packet one-way delay: 1302.448 ms
Loss rate: 25.52%
-- Flow 3:
Average throughput: 27.67 Mbit/s
95th percentile per-packet one-way delay: 65.588 ms
Loss rate: 0.91%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-10-03 12:53:50

End at: 2019-10-03 12:54:20

Local clock offset: 0.215 ms

Remote clock offset: 7.49 ms

Below is generated by plot.py at 2019-10-03 16:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.96 Mbit/s

95th percentile per-packet one-way delay: 1024.063 ms

Loss rate: 41.04%

-- Flow 1:

Average throughput: 59.76 Mbit/s

95th percentile per-packet one-way delay: 557.554 ms

Loss rate: 49.33%

-- Flow 2:

Average throughput: 38.25 Mbit/s

95th percentile per-packet one-way delay: 1092.907 ms

Loss rate: 14.17%

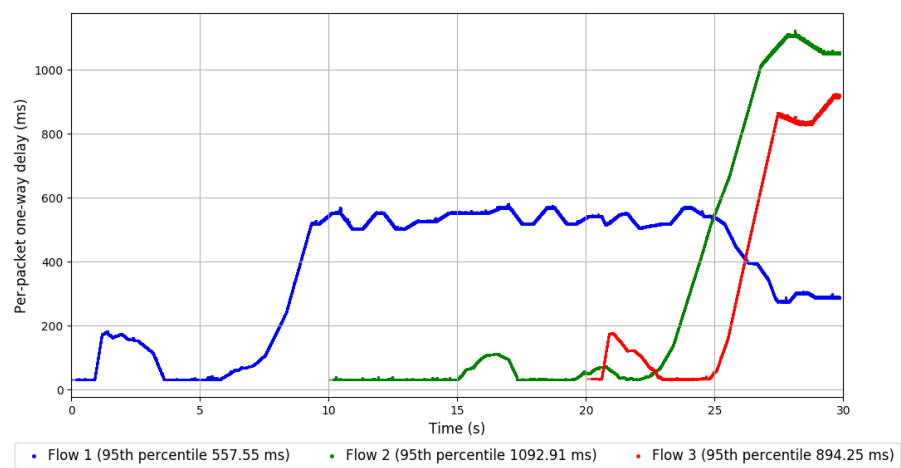
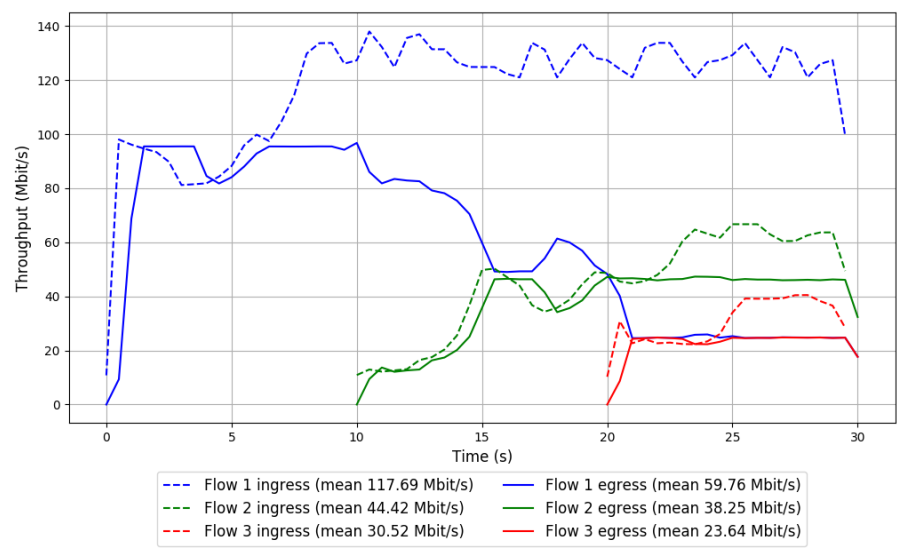
-- Flow 3:

Average throughput: 23.64 Mbit/s

95th percentile per-packet one-way delay: 894.252 ms

Loss rate: 23.06%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-10-03 14:02:27

End at: 2019-10-03 14:02:57

Local clock offset: -0.019 ms

Remote clock offset: 7.429 ms

Below is generated by plot.py at 2019-10-03 16:44:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.60 Mbit/s

95th percentile per-packet one-way delay: 1442.271 ms

Loss rate: 40.73%

-- Flow 1:

Average throughput: 60.04 Mbit/s

95th percentile per-packet one-way delay: 579.070 ms

Loss rate: 48.45%

-- Flow 2:

Average throughput: 28.99 Mbit/s

95th percentile per-packet one-way delay: 1509.193 ms

Loss rate: 18.41%

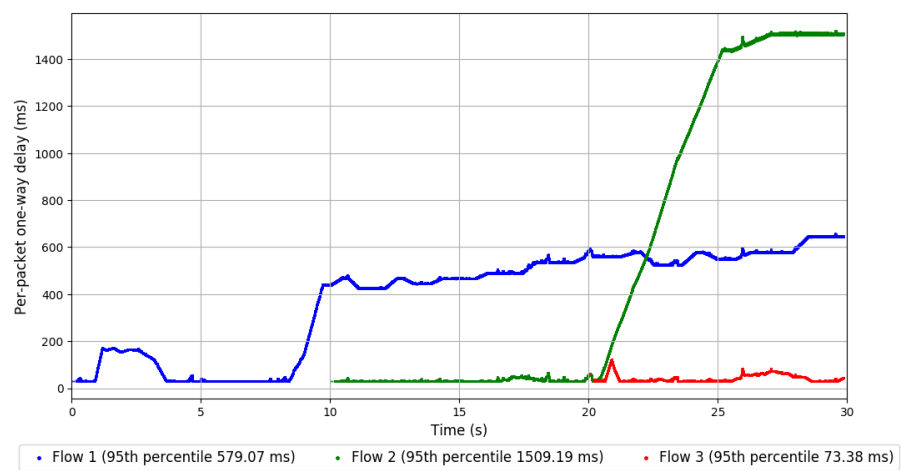
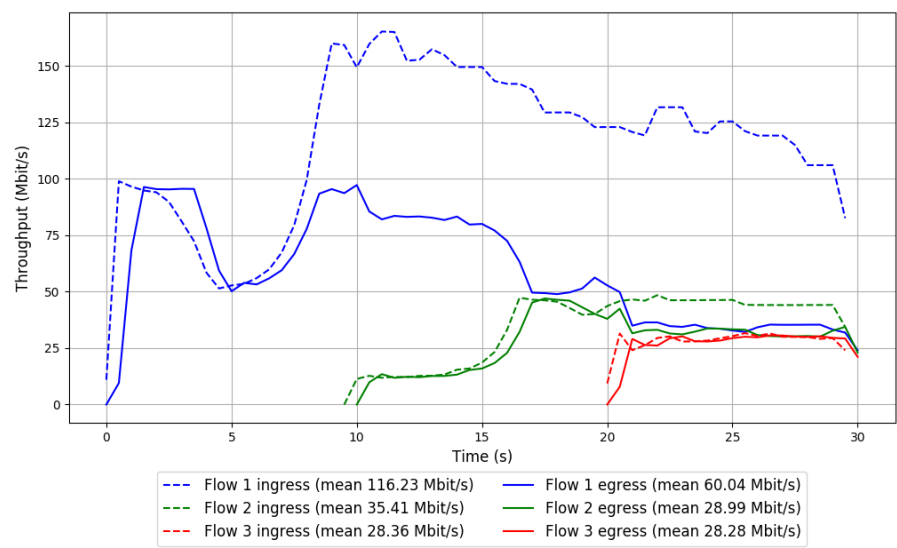
-- Flow 3:

Average throughput: 28.28 Mbit/s

95th percentile per-packet one-way delay: 73.375 ms

Loss rate: 1.19%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-10-03 15:28:09

End at: 2019-10-03 15:28:39

Local clock offset: -0.043 ms

Remote clock offset: 7.312 ms

Below is generated by plot.py at 2019-10-03 16:44:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.79 Mbit/s

95th percentile per-packet one-way delay: 591.465 ms

Loss rate: 43.88%

-- Flow 1:

Average throughput: 49.57 Mbit/s

95th percentile per-packet one-way delay: 603.594 ms

Loss rate: 51.30%

-- Flow 2:

Average throughput: 36.01 Mbit/s

95th percentile per-packet one-way delay: 557.986 ms

Loss rate: 39.08%

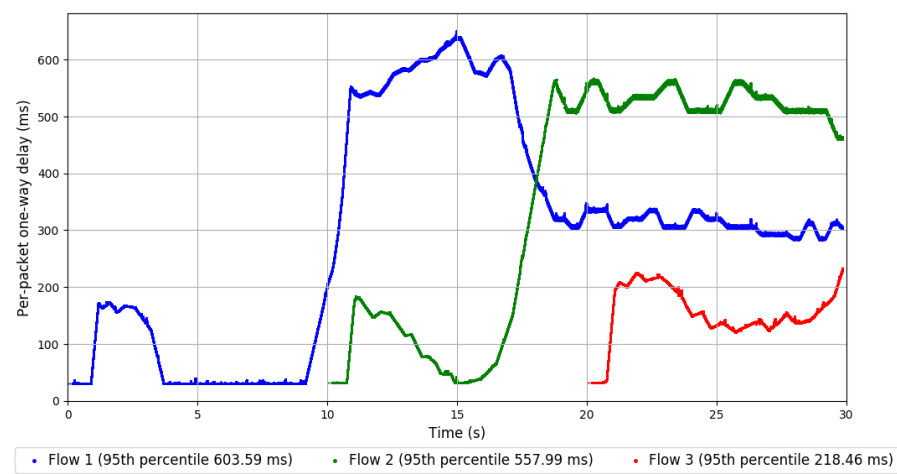
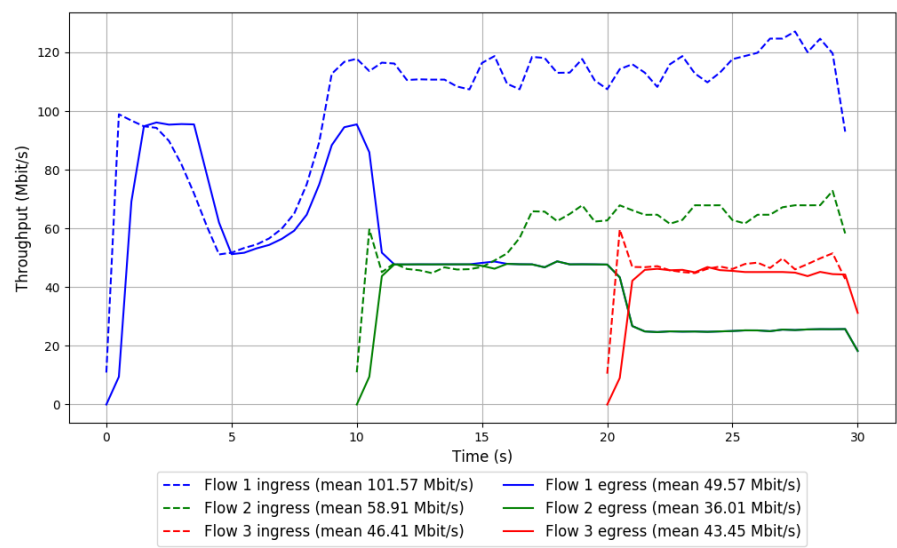
-- Flow 3:

Average throughput: 43.45 Mbit/s

95th percentile per-packet one-way delay: 218.460 ms

Loss rate: 6.98%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-10-03 11:01:17

End at: 2019-10-03 11:01:47

Local clock offset: 0.477 ms

Remote clock offset: 6.958 ms

Below is generated by plot.py at 2019-10-03 16:44:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.83 Mbit/s

95th percentile per-packet one-way delay: 111.193 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 39.18 Mbit/s

95th percentile per-packet one-way delay: 99.001 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 42.30 Mbit/s

95th percentile per-packet one-way delay: 113.413 ms

Loss rate: 0.47%

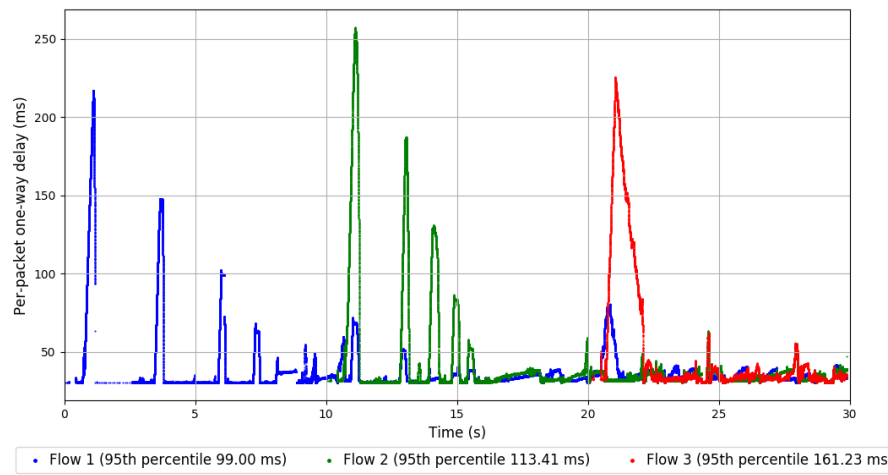
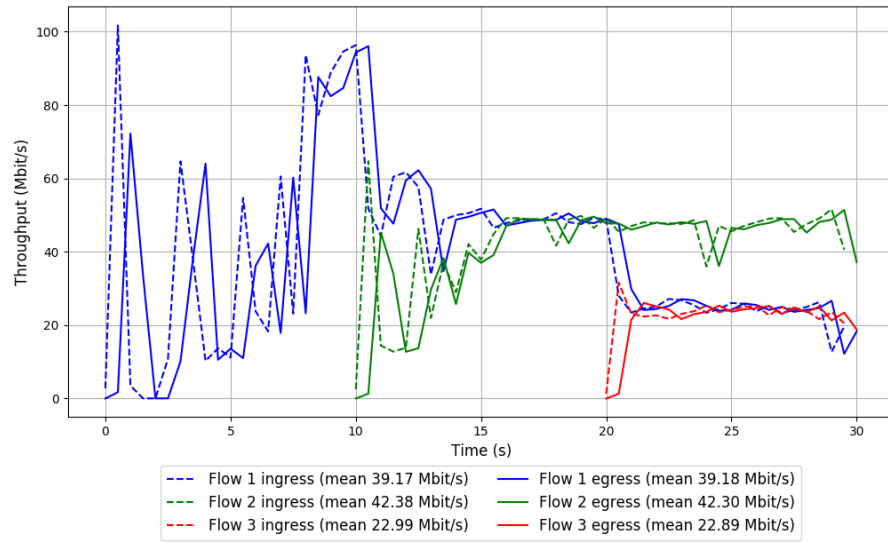
-- Flow 3:

Average throughput: 22.89 Mbit/s

95th percentile per-packet one-way delay: 161.233 ms

Loss rate: 1.08%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-10-03 11:52:06

End at: 2019-10-03 11:52:36

Local clock offset: 0.343 ms

Remote clock offset: 8.053 ms

Below is generated by plot.py at 2019-10-03 16:44:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.90 Mbit/s

95th percentile per-packet one-way delay: 99.179 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 41.52 Mbit/s

95th percentile per-packet one-way delay: 98.376 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 43.08 Mbit/s

95th percentile per-packet one-way delay: 90.465 ms

Loss rate: 0.47%

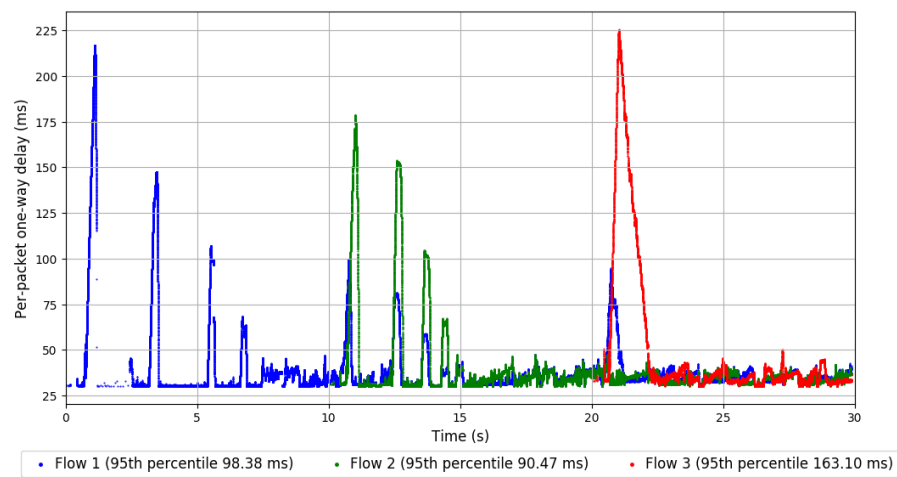
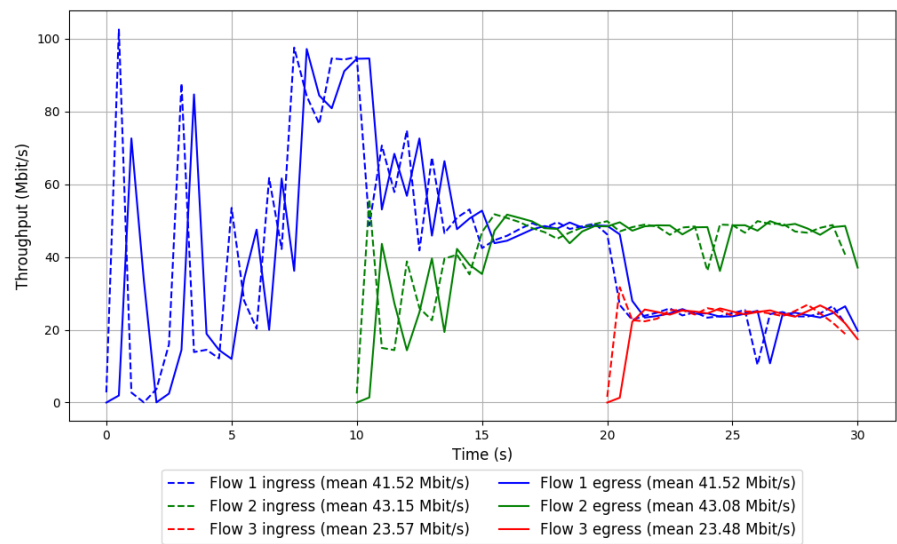
-- Flow 3:

Average throughput: 23.48 Mbit/s

95th percentile per-packet one-way delay: 163.098 ms

Loss rate: 1.02%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-10-03 12:48:00

End at: 2019-10-03 12:48:30

Local clock offset: 0.207 ms

Remote clock offset: 7.501 ms

Below is generated by plot.py at 2019-10-03 16:44:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.40 Mbit/s

95th percentile per-packet one-way delay: 105.506 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 41.96 Mbit/s

95th percentile per-packet one-way delay: 96.037 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 32.96 Mbit/s

95th percentile per-packet one-way delay: 103.093 ms

Loss rate: 0.33%

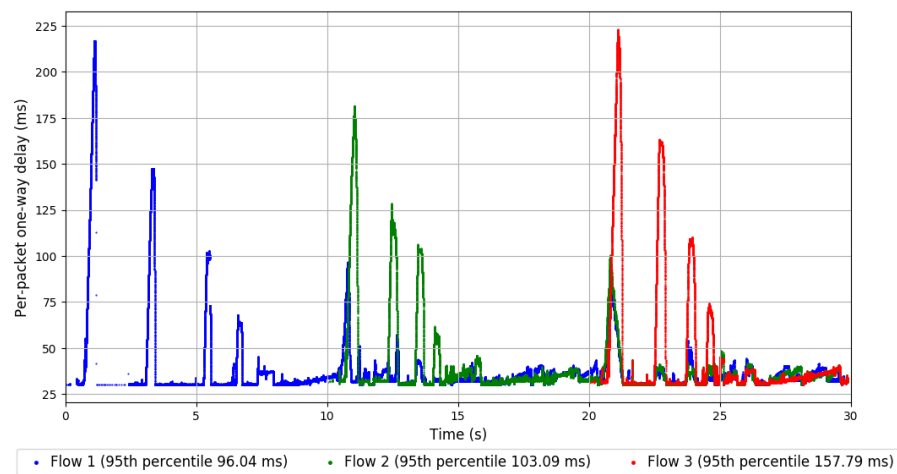
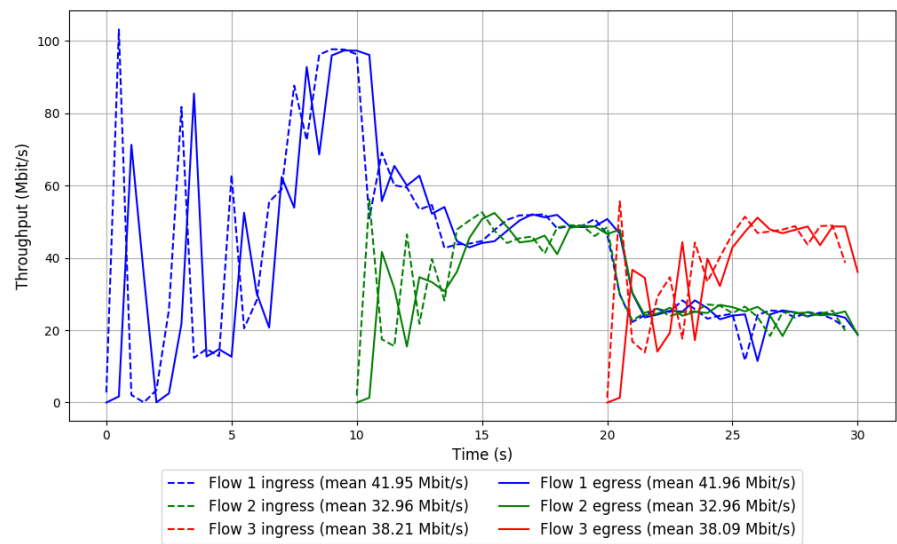
-- Flow 3:

Average throughput: 38.09 Mbit/s

95th percentile per-packet one-way delay: 157.789 ms

Loss rate: 0.96%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-10-03 13:54:24

End at: 2019-10-03 13:54:54

Local clock offset: -0.113 ms

Remote clock offset: 7.566 ms

Below is generated by plot.py at 2019-10-03 16:44:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.47 Mbit/s

95th percentile per-packet one-way delay: 100.862 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 47.96 Mbit/s

95th percentile per-packet one-way delay: 80.145 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 31.18 Mbit/s

95th percentile per-packet one-way delay: 128.142 ms

Loss rate: 0.38%

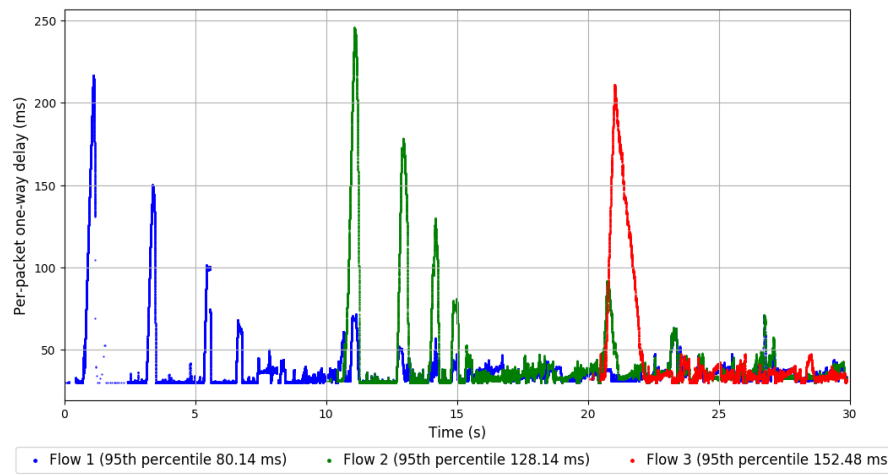
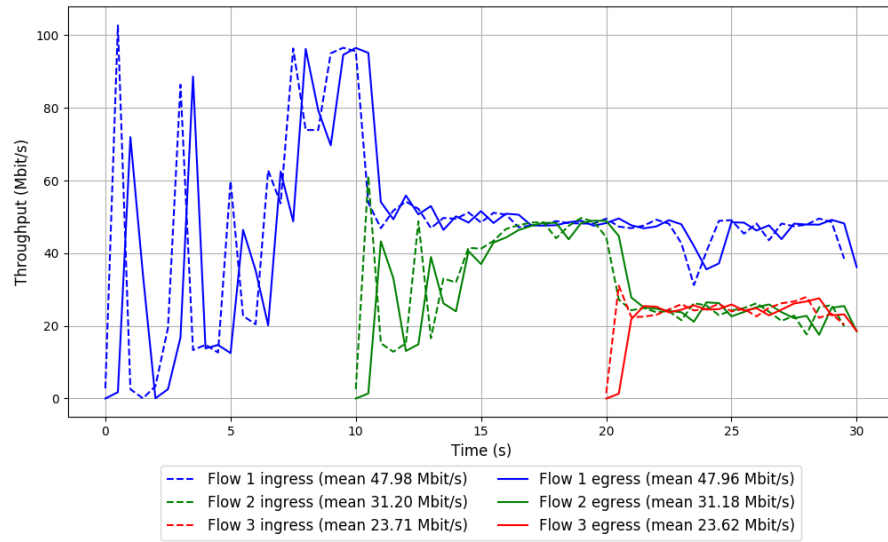
-- Flow 3:

Average throughput: 23.62 Mbit/s

95th percentile per-packet one-way delay: 152.484 ms

Loss rate: 1.02%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-10-03 15:18:45

End at: 2019-10-03 15:19:15

Local clock offset: -0.044 ms

Remote clock offset: 7.183 ms

Below is generated by plot.py at 2019-10-03 16:44:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.80 Mbit/s

95th percentile per-packet one-way delay: 70.791 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 49.99 Mbit/s

95th percentile per-packet one-way delay: 53.132 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 42.22 Mbit/s

95th percentile per-packet one-way delay: 111.950 ms

Loss rate: 0.44%

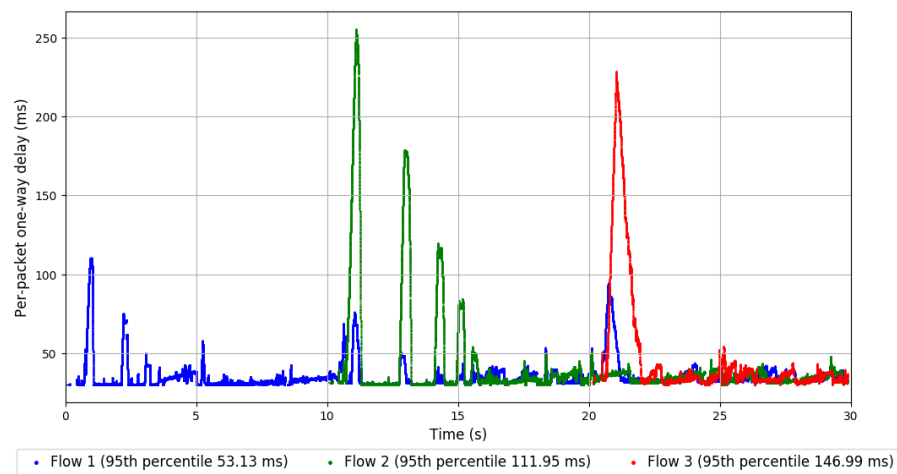
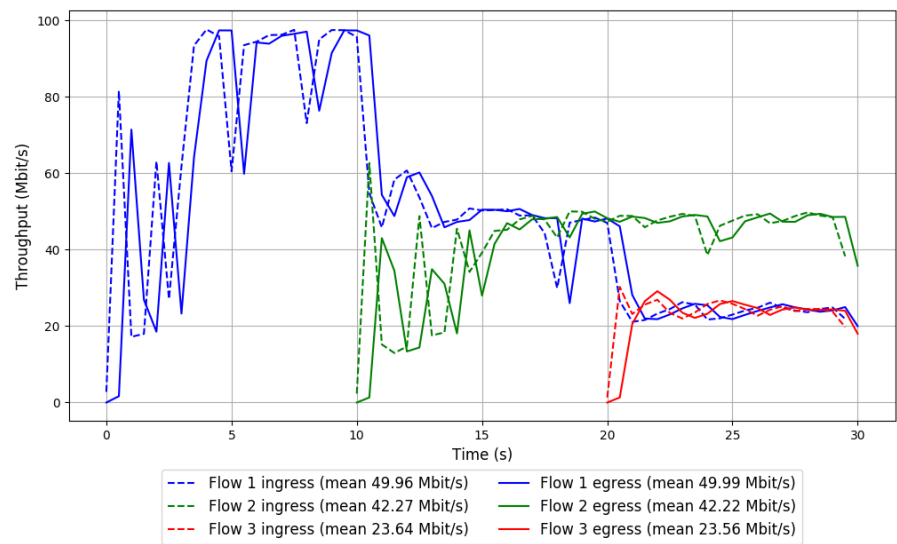
-- Flow 3:

Average throughput: 23.56 Mbit/s

95th percentile per-packet one-way delay: 146.986 ms

Loss rate: 0.98%

Run 5: Report of QUIC Cubic — Data Link

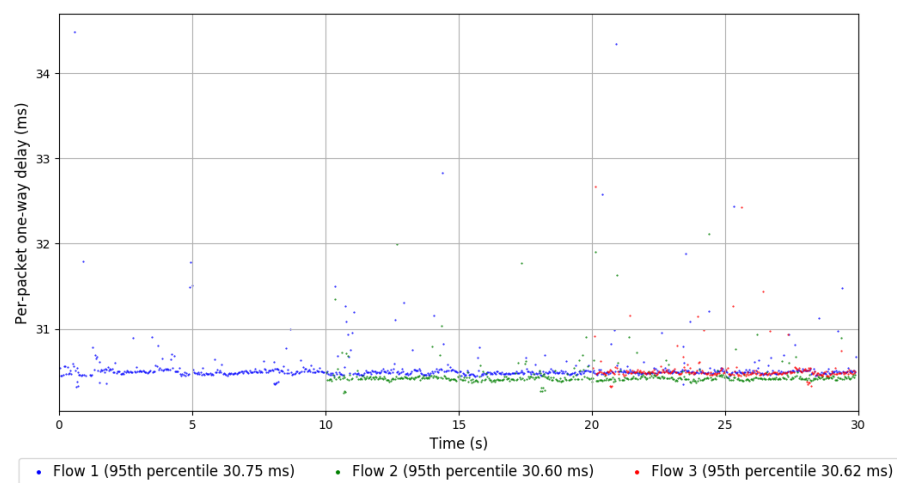
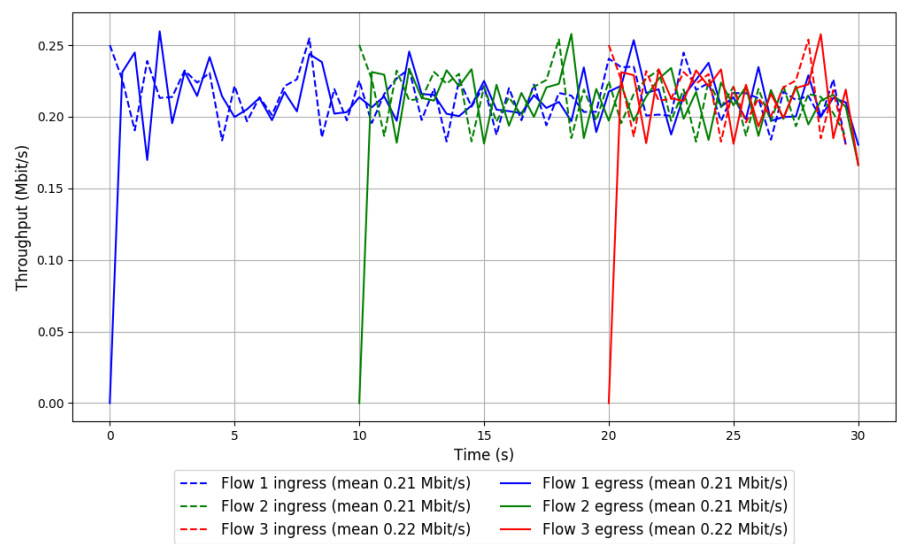


```
Run 1: Statistics of SReAM

Start at: 2019-10-03 11:46:31
End at: 2019-10-03 11:47:01
Local clock offset: 0.357 ms
Remote clock offset: 8.006 ms

# Below is generated by plot.py at 2019-10-03 16:44:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 30.681 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.753 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.602 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.623 ms
Loss rate: 0.71%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2019-10-03 12:40:29

End at: 2019-10-03 12:40:59

Local clock offset: 0.253 ms

Remote clock offset: 7.601 ms

Below is generated by plot.py at 2019-10-03 16:44:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.679 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.554 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.999 ms

Loss rate: 0.40%

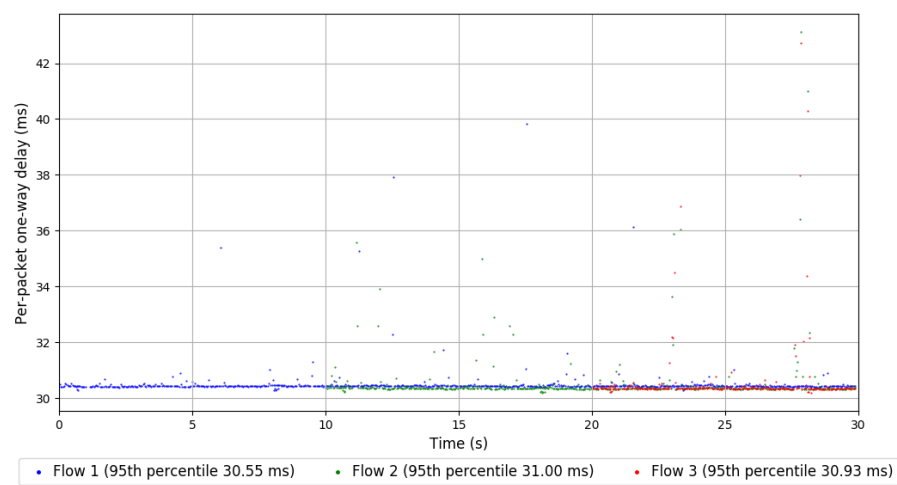
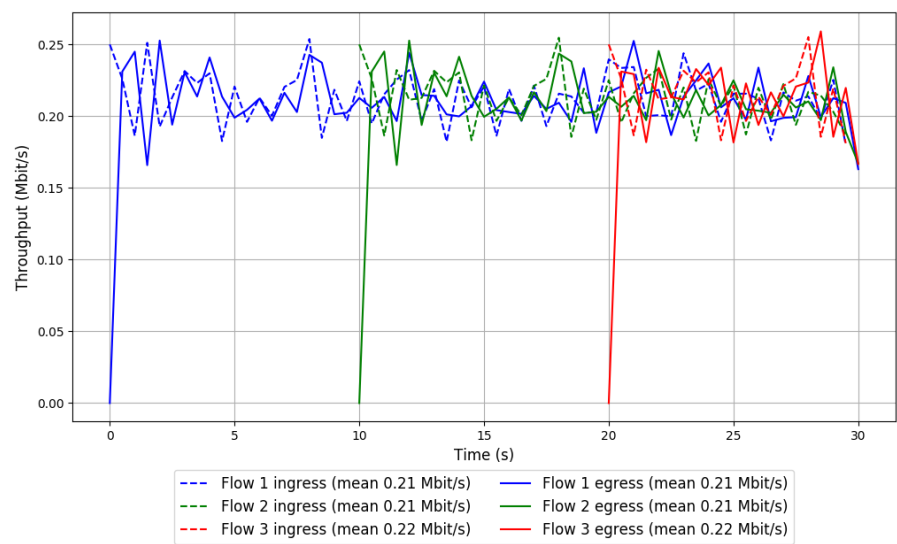
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.926 ms

Loss rate: 0.71%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2019-10-03 13:46:06

End at: 2019-10-03 13:46:36

Local clock offset: -0.09 ms

Remote clock offset: 7.633 ms

Below is generated by plot.py at 2019-10-03 16:44:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 31.939 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.778 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 32.019 ms

Loss rate: 0.40%

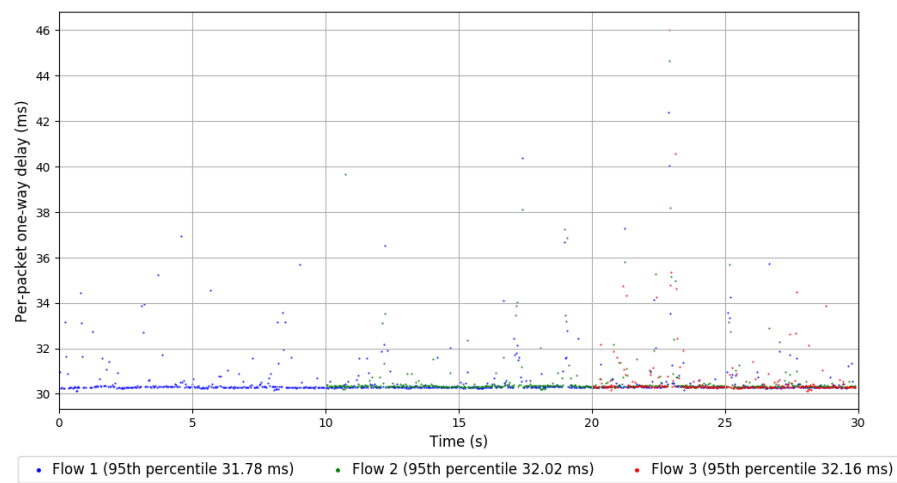
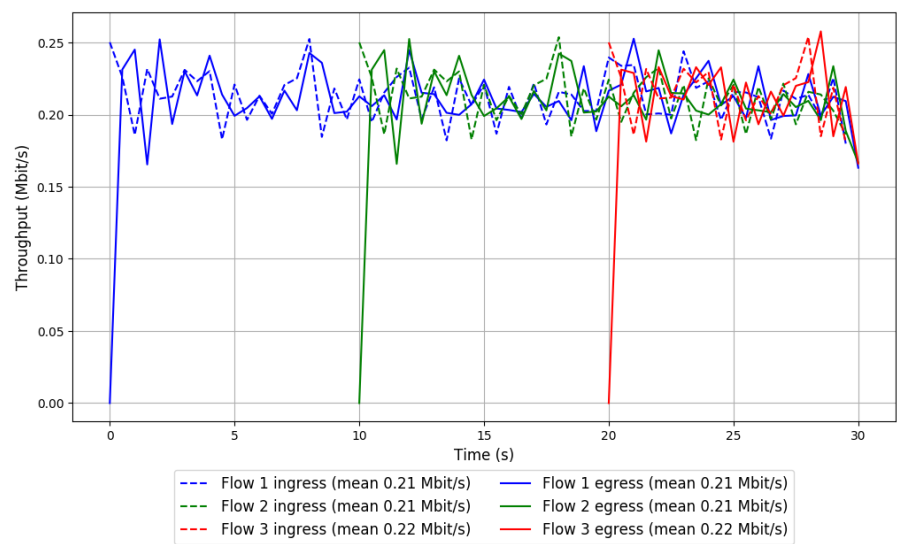
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.165 ms

Loss rate: 0.71%

Run 3: Report of SReAM — Data Link

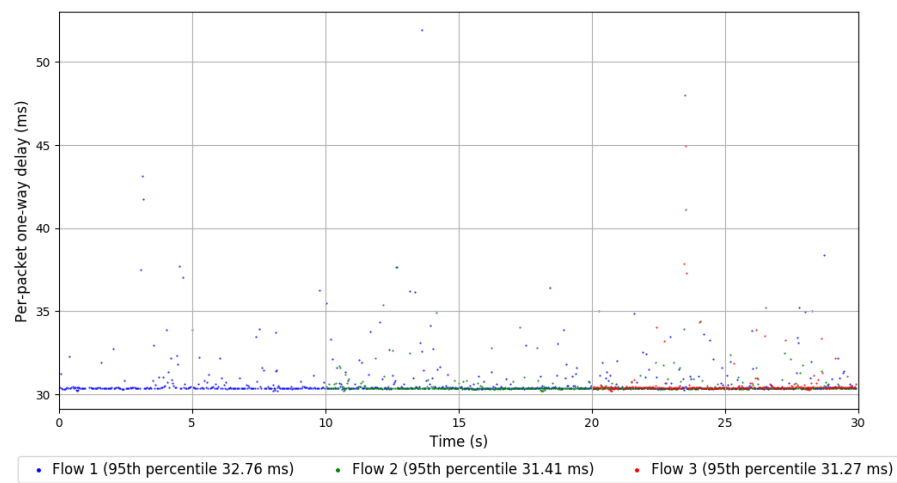
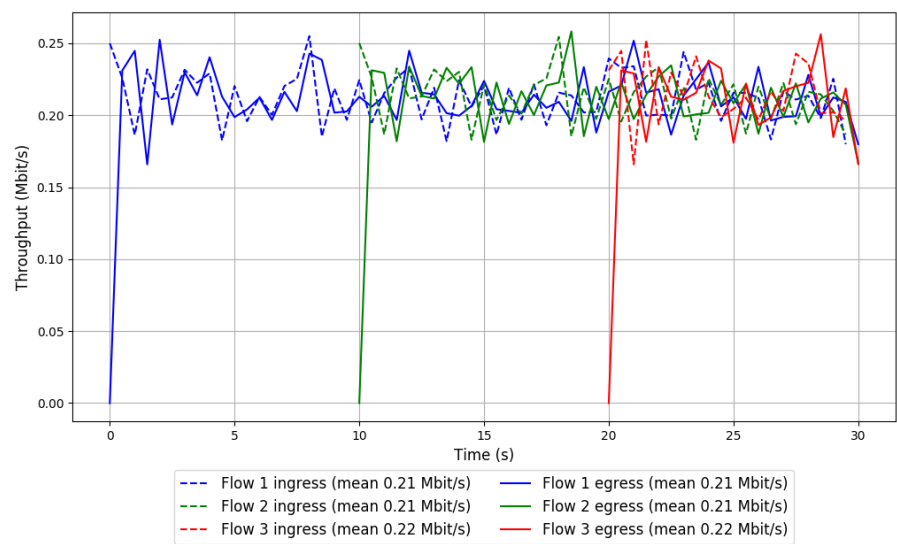


Run 4: Statistics of SReAM

Start at: 2019-10-03 15:09:51
End at: 2019-10-03 15:10:21
Local clock offset: -0.018 ms
Remote clock offset: 7.285 ms

Below is generated by plot.py at 2019-10-03 16:44:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 32.156 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.757 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.407 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.266 ms
Loss rate: 0.71%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2019-10-03 16:22:51

End at: 2019-10-03 16:23:21

Local clock offset: 0.045 ms

Remote clock offset: 6.666 ms

Below is generated by plot.py at 2019-10-03 16:44:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 31.221 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.360 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 31.181 ms

Loss rate: 0.40%

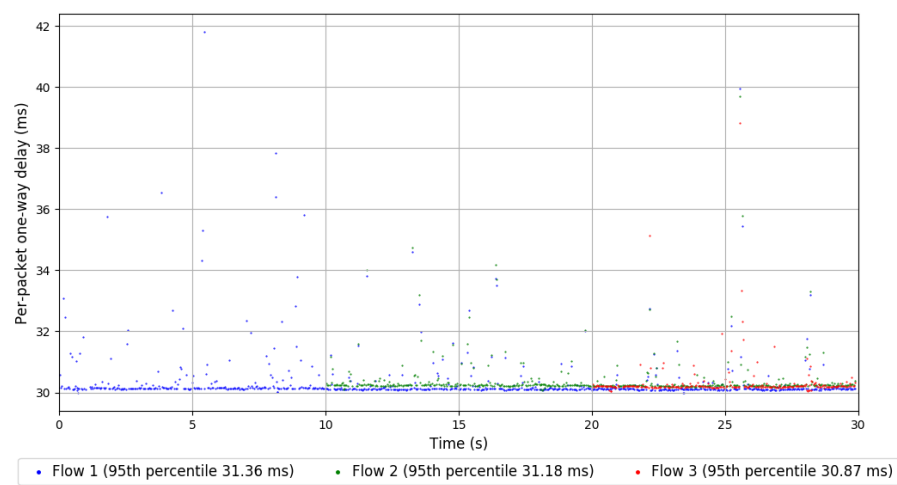
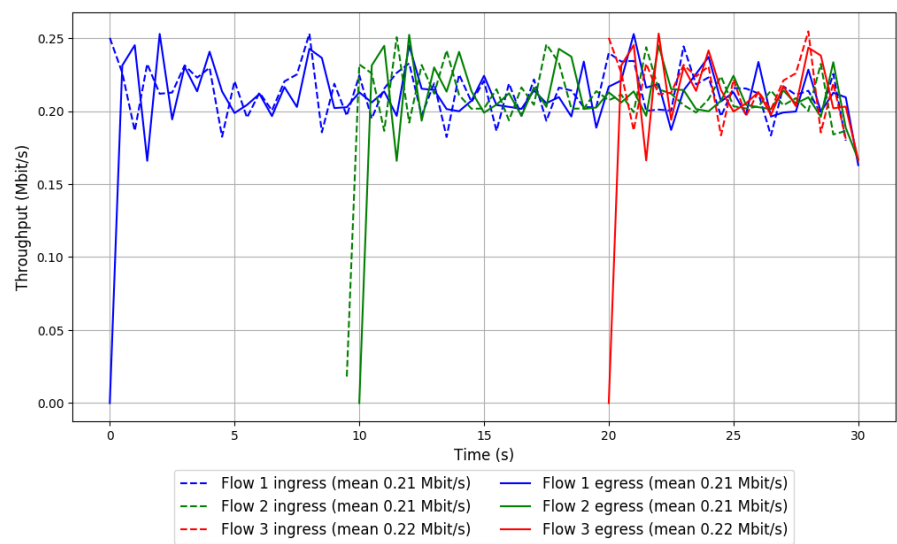
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.869 ms

Loss rate: 0.71%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-10-03 11:04:59

End at: 2019-10-03 11:05:29

Local clock offset: 0.401 ms

Remote clock offset: 6.879 ms

Below is generated by plot.py at 2019-10-03 16:44:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.77 Mbit/s

95th percentile per-packet one-way delay: 38.748 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 38.391 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 11.96 Mbit/s

95th percentile per-packet one-way delay: 39.021 ms

Loss rate: 0.37%

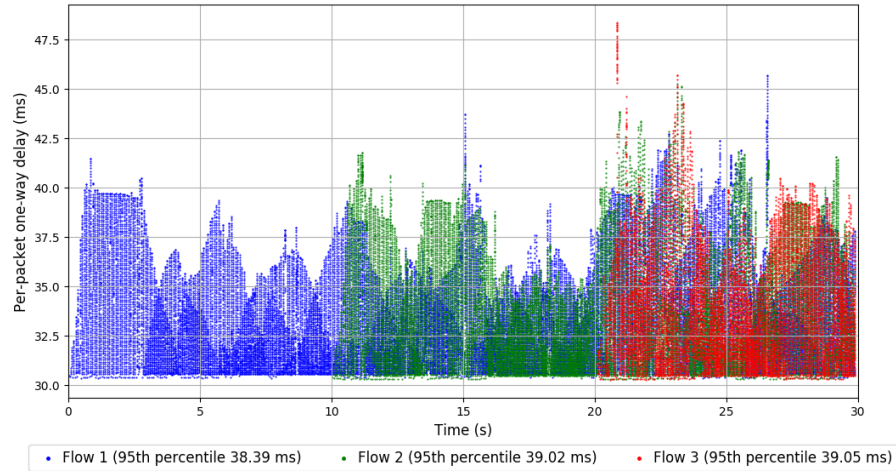
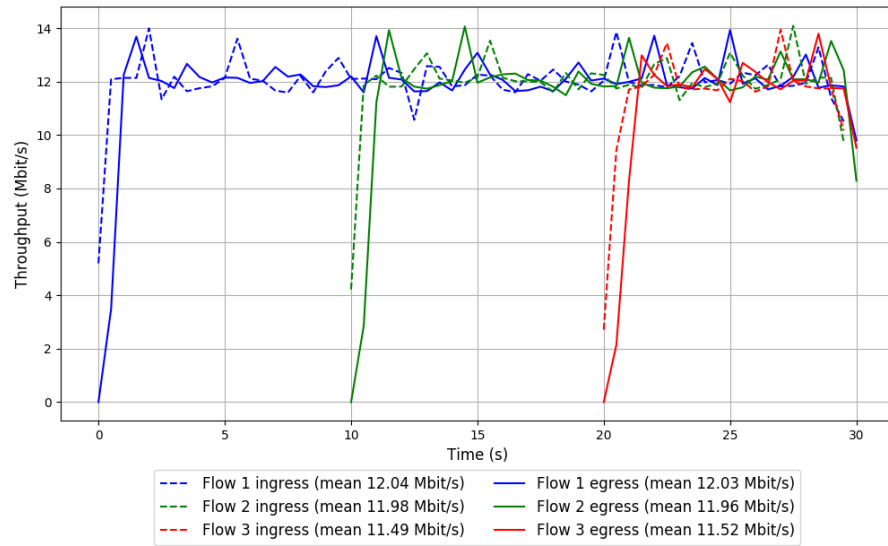
-- Flow 3:

Average throughput: 11.52 Mbit/s

95th percentile per-packet one-way delay: 39.049 ms

Loss rate: 0.29%

Run 1: Report of Sprout — Data Link

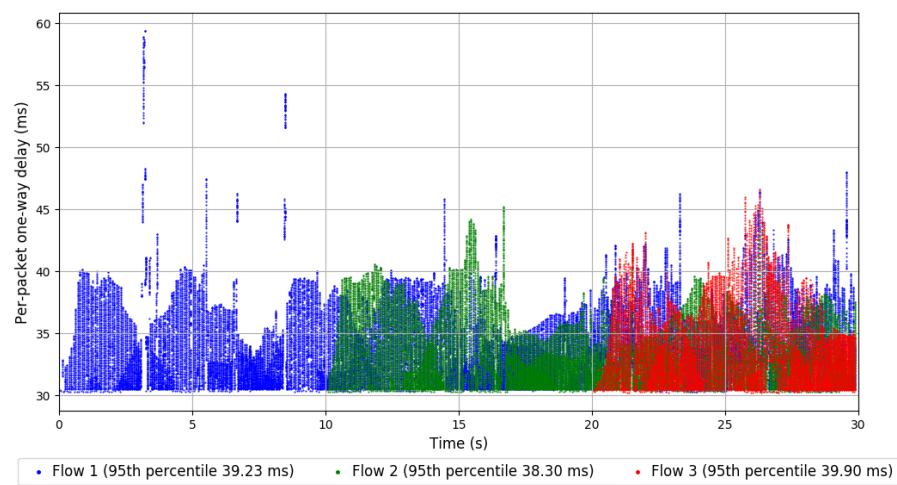
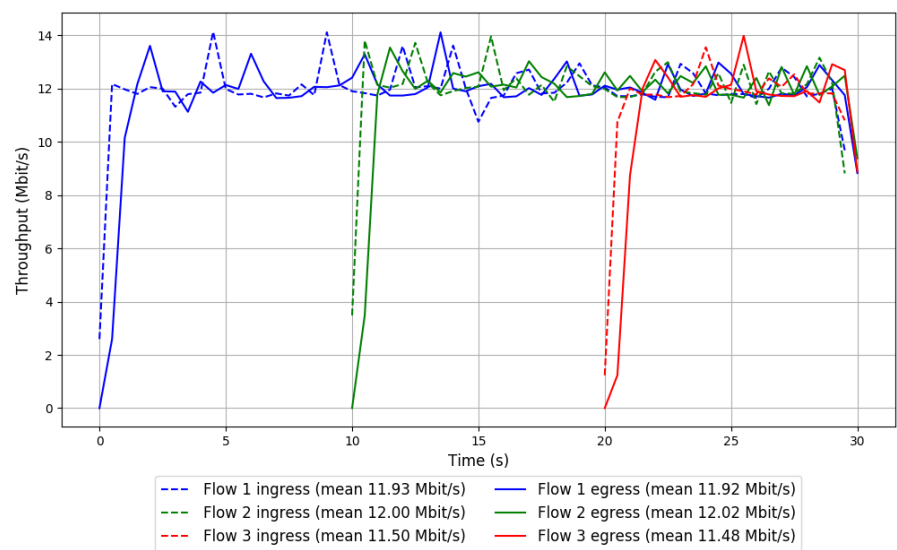


Run 2: Statistics of Sprout

Start at: 2019-10-03 11:55:34
End at: 2019-10-03 11:56:04
Local clock offset: 0.334 ms
Remote clock offset: 7.95 ms

Below is generated by plot.py at 2019-10-03 16:44:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.69 Mbit/s
95th percentile per-packet one-way delay: 39.066 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 39.228 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 12.02 Mbit/s
95th percentile per-packet one-way delay: 38.300 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 39.896 ms
Loss rate: 0.84%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-10-03 12:52:25

End at: 2019-10-03 12:52:55

Local clock offset: 0.203 ms

Remote clock offset: 7.474 ms

Below is generated by plot.py at 2019-10-03 16:44:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.72 Mbit/s

95th percentile per-packet one-way delay: 39.631 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 11.97 Mbit/s

95th percentile per-packet one-way delay: 38.949 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 40.433 ms

Loss rate: 0.42%

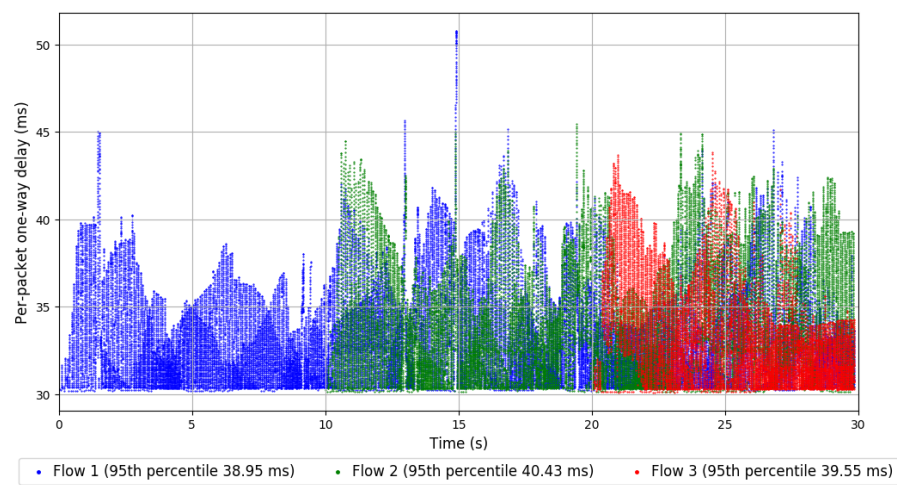
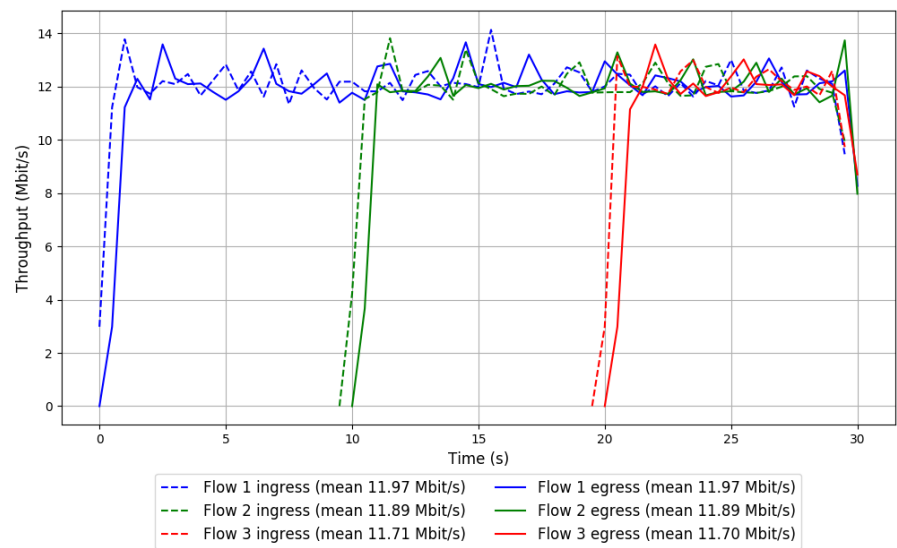
-- Flow 3:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 39.545 ms

Loss rate: 0.84%

Run 3: Report of Sprout — Data Link

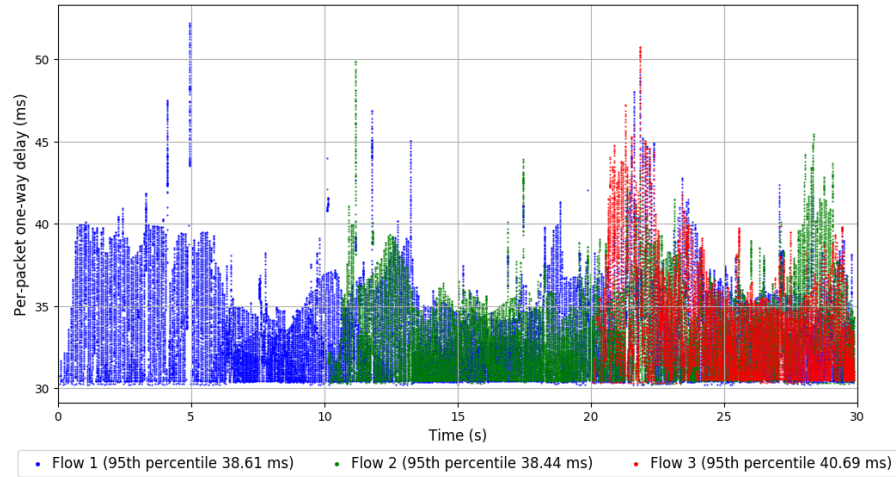
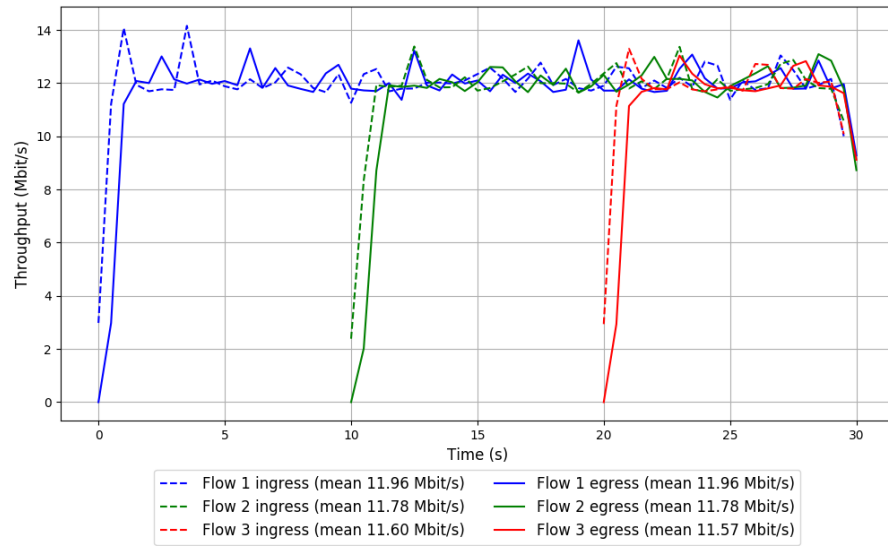


Run 4: Statistics of Sprout

Start at: 2019-10-03 14:00:52
End at: 2019-10-03 14:01:22
Local clock offset: -0.035 ms
Remote clock offset: 7.429 ms

Below is generated by plot.py at 2019-10-03 16:44:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.59 Mbit/s
95th percentile per-packet one-way delay: 38.866 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 11.96 Mbit/s
95th percentile per-packet one-way delay: 38.613 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 38.444 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 40.693 ms
Loss rate: 0.78%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-10-03 15:26:09

End at: 2019-10-03 15:26:39

Local clock offset: -0.064 ms

Remote clock offset: 7.361 ms

Below is generated by plot.py at 2019-10-03 16:44:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.61 Mbit/s

95th percentile per-packet one-way delay: 40.129 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 11.88 Mbit/s

95th percentile per-packet one-way delay: 40.585 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 11.88 Mbit/s

95th percentile per-packet one-way delay: 39.846 ms

Loss rate: 0.42%

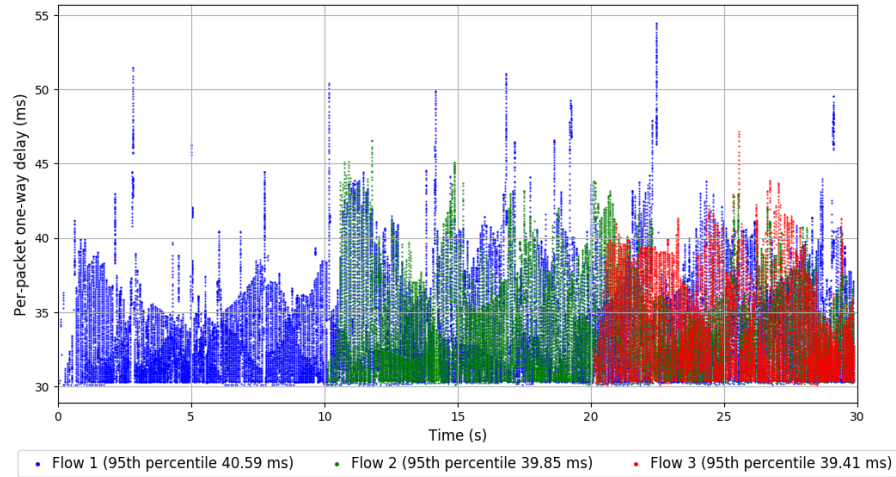
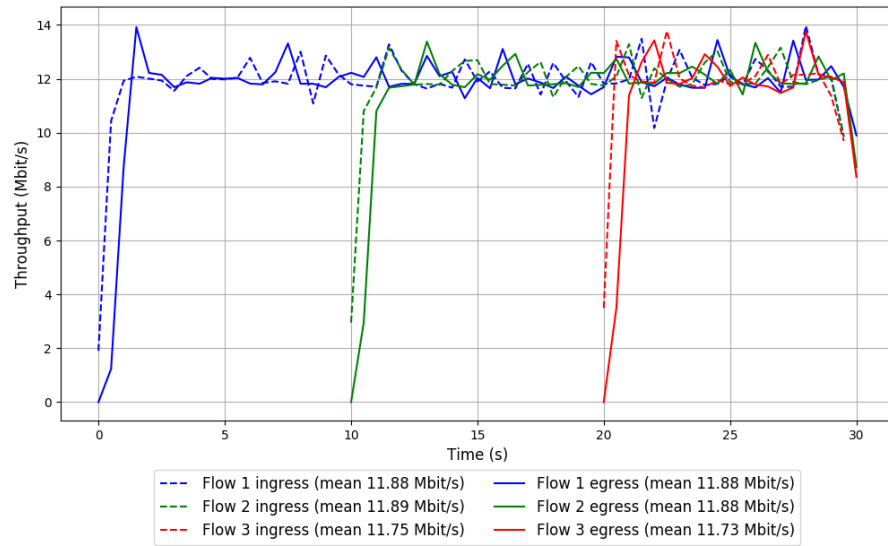
-- Flow 3:

Average throughput: 11.73 Mbit/s

95th percentile per-packet one-way delay: 39.412 ms

Loss rate: 0.58%

Run 5: Report of Sprout — Data Link

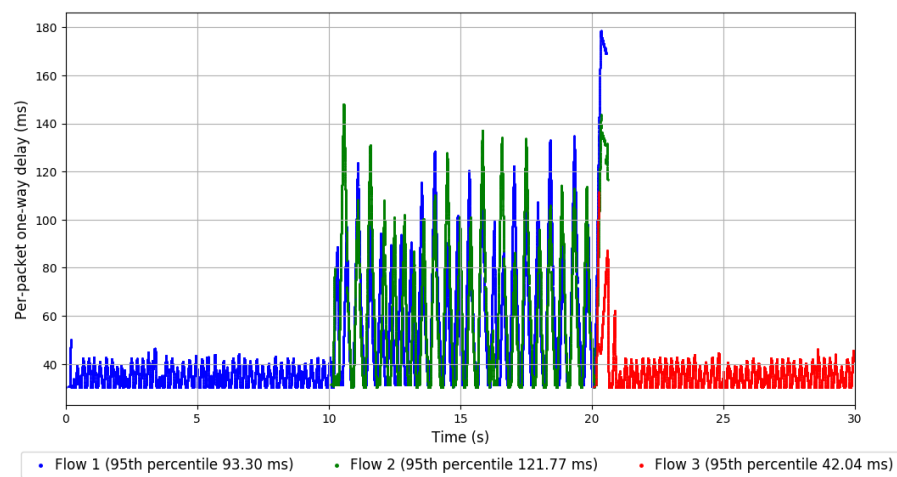
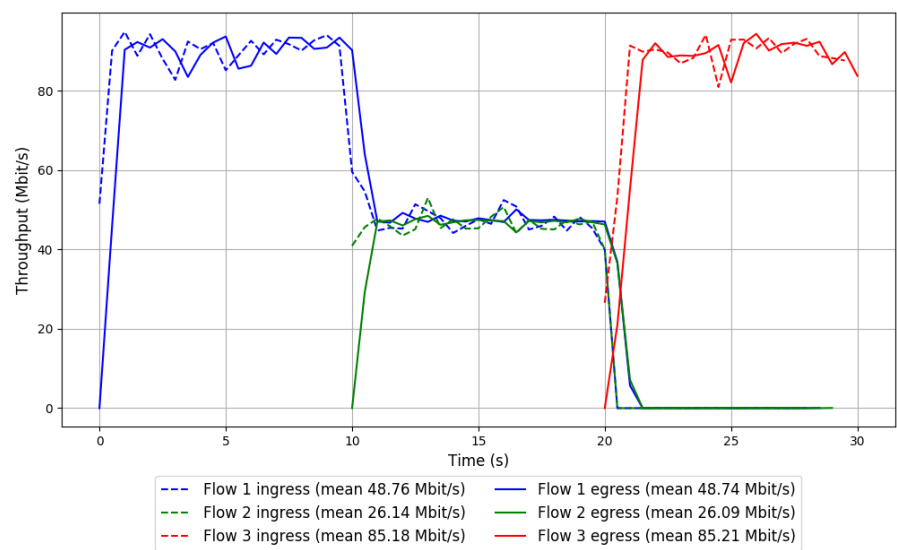


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-10-03 11:19:35
End at: 2019-10-03 11:20:05
Local clock offset: 0.413 ms
Remote clock offset: 7.011 ms

# Below is generated by plot.py at 2019-10-03 16:45:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.71 Mbit/s
95th percentile per-packet one-way delay: 96.522 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 48.74 Mbit/s
95th percentile per-packet one-way delay: 93.296 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 26.09 Mbit/s
95th percentile per-packet one-way delay: 121.773 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 85.21 Mbit/s
95th percentile per-packet one-way delay: 42.037 ms
Loss rate: 0.61%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-10-03 12:09:52

End at: 2019-10-03 12:10:22

Local clock offset: 0.263 ms

Remote clock offset: 7.876 ms

Below is generated by plot.py at 2019-10-03 16:45:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.32 Mbit/s

95th percentile per-packet one-way delay: 98.731 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 48.10 Mbit/s

95th percentile per-packet one-way delay: 95.316 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 26.23 Mbit/s

95th percentile per-packet one-way delay: 123.626 ms

Loss rate: 0.16%

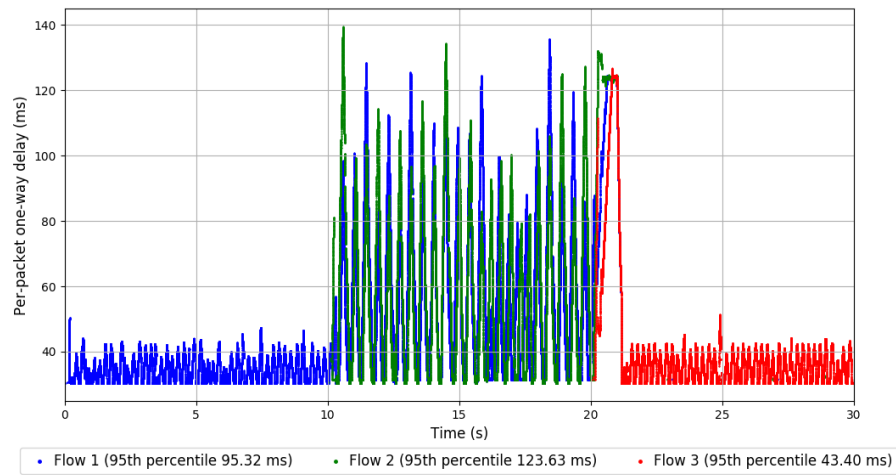
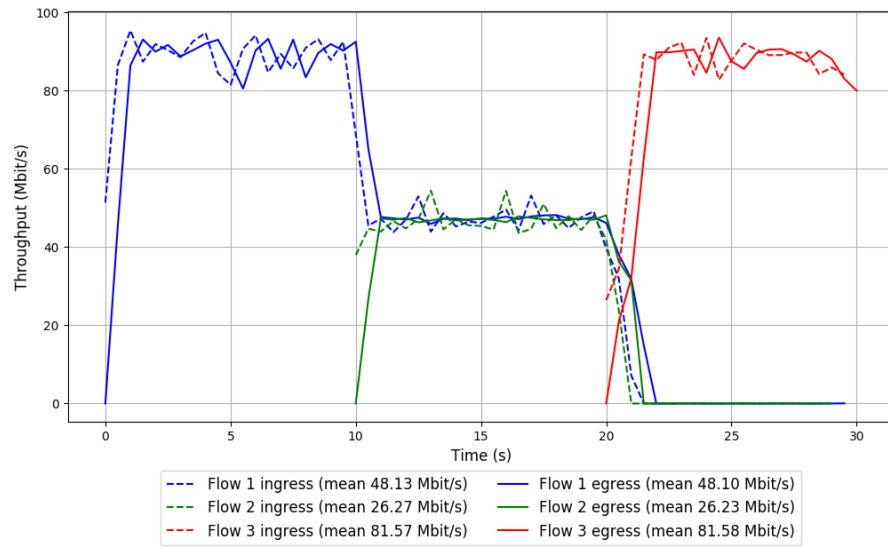
-- Flow 3:

Average throughput: 81.58 Mbit/s

95th percentile per-packet one-way delay: 43.395 ms

Loss rate: 0.63%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-10-03 13:08:04

End at: 2019-10-03 13:08:34

Local clock offset: 0.116 ms

Remote clock offset: 7.704 ms

Below is generated by plot.py at 2019-10-03 16:46:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.42 Mbit/s

95th percentile per-packet one-way delay: 95.042 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 47.66 Mbit/s

95th percentile per-packet one-way delay: 88.675 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 26.06 Mbit/s

95th percentile per-packet one-way delay: 124.269 ms

Loss rate: 0.09%

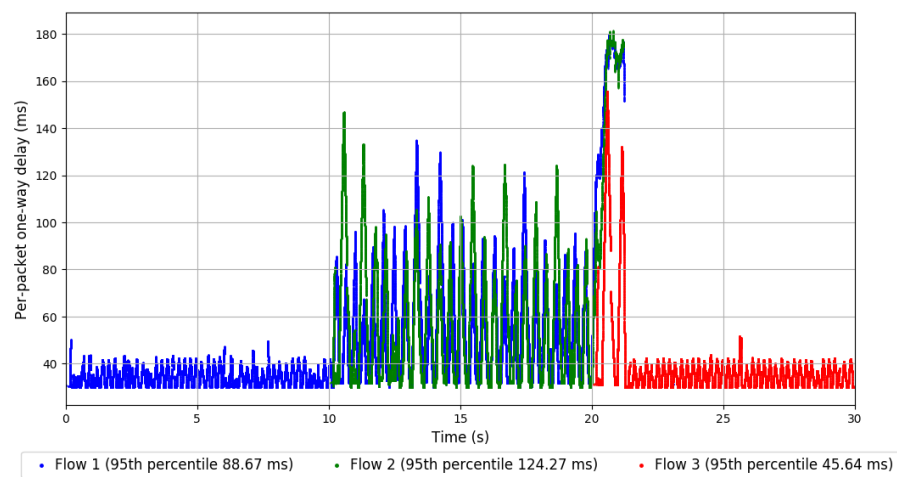
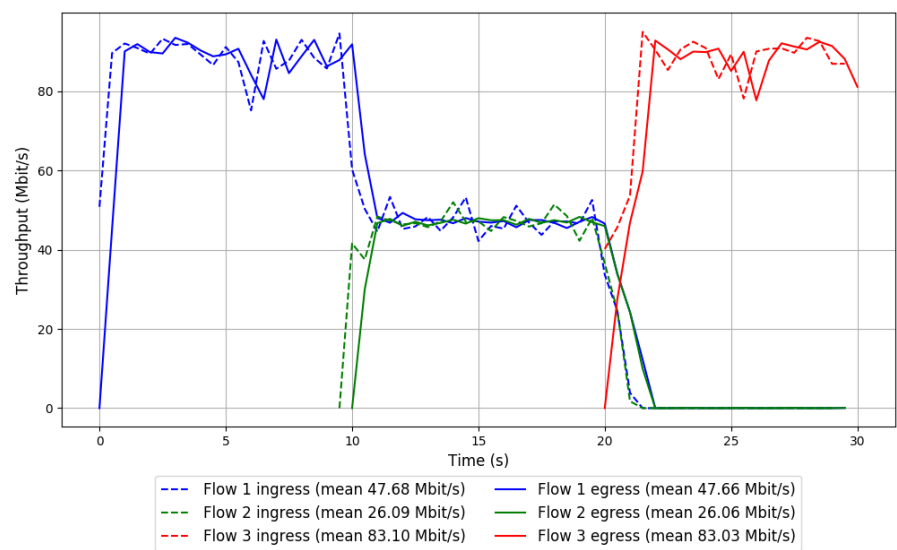
-- Flow 3:

Average throughput: 83.03 Mbit/s

95th percentile per-packet one-way delay: 45.642 ms

Loss rate: 0.74%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-10-03 14:20:48

End at: 2019-10-03 14:21:18

Local clock offset: 0.059 ms

Remote clock offset: 7.604 ms

Below is generated by plot.py at 2019-10-03 16:46:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.07 Mbit/s

95th percentile per-packet one-way delay: 101.162 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 47.13 Mbit/s

95th percentile per-packet one-way delay: 93.140 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 42.95 Mbit/s

95th percentile per-packet one-way delay: 99.778 ms

Loss rate: 0.10%

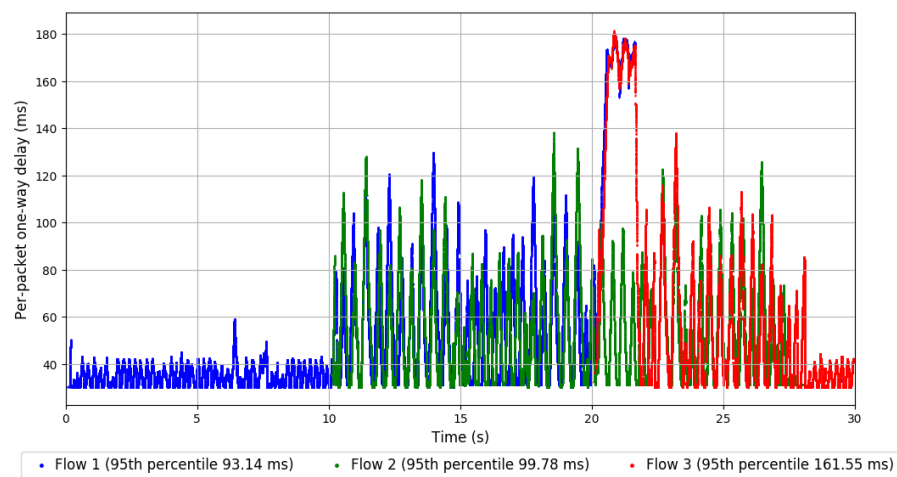
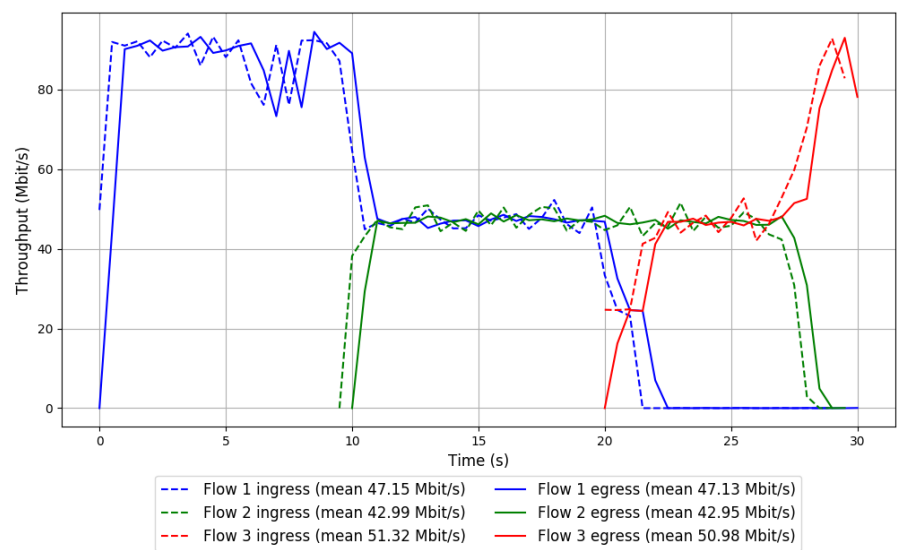
-- Flow 3:

Average throughput: 50.98 Mbit/s

95th percentile per-packet one-way delay: 161.551 ms

Loss rate: 1.31%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-10-03 15:49:01

End at: 2019-10-03 15:49:31

Local clock offset: -0.105 ms

Remote clock offset: 7.058 ms

Below is generated by plot.py at 2019-10-03 16:46:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.35 Mbit/s

95th percentile per-packet one-way delay: 41.552 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 14.27 Mbit/s

95th percentile per-packet one-way delay: 41.612 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 10.46 Mbit/s

95th percentile per-packet one-way delay: 41.292 ms

Loss rate: 0.63%

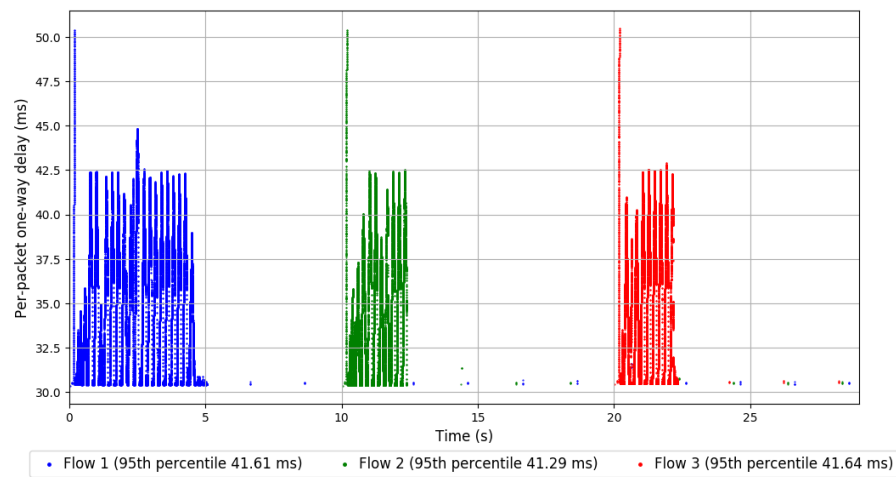
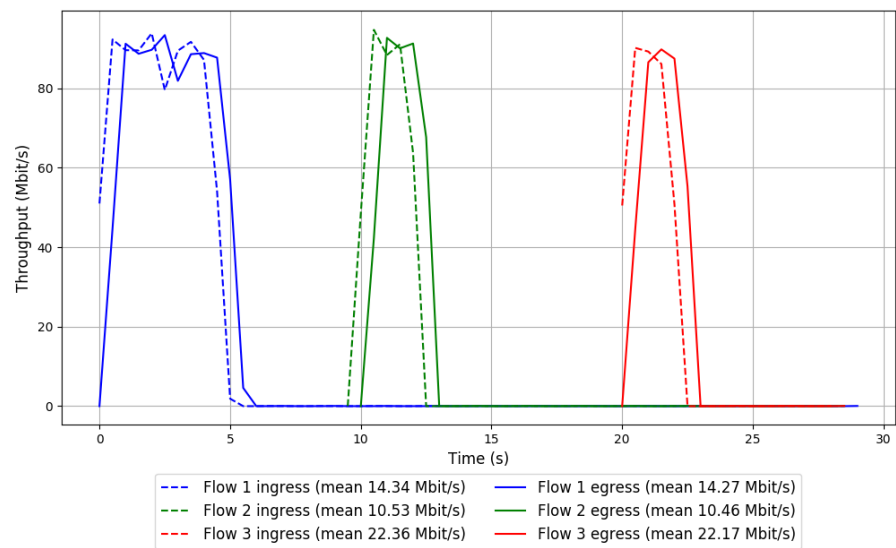
-- Flow 3:

Average throughput: 22.17 Mbit/s

95th percentile per-packet one-way delay: 41.636 ms

Loss rate: 0.87%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-10-03 11:34:14

End at: 2019-10-03 11:34:44

Local clock offset: 0.353 ms

Remote clock offset: 7.719 ms

Below is generated by plot.py at 2019-10-03 16:46:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.13 Mbit/s

95th percentile per-packet one-way delay: 39.907 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 37.62 Mbit/s

95th percentile per-packet one-way delay: 49.560 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 35.781 ms

Loss rate: 0.30%

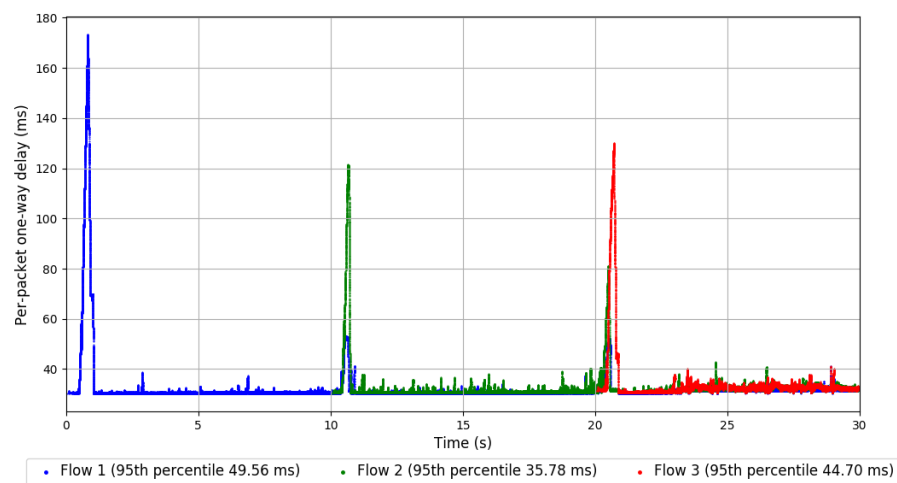
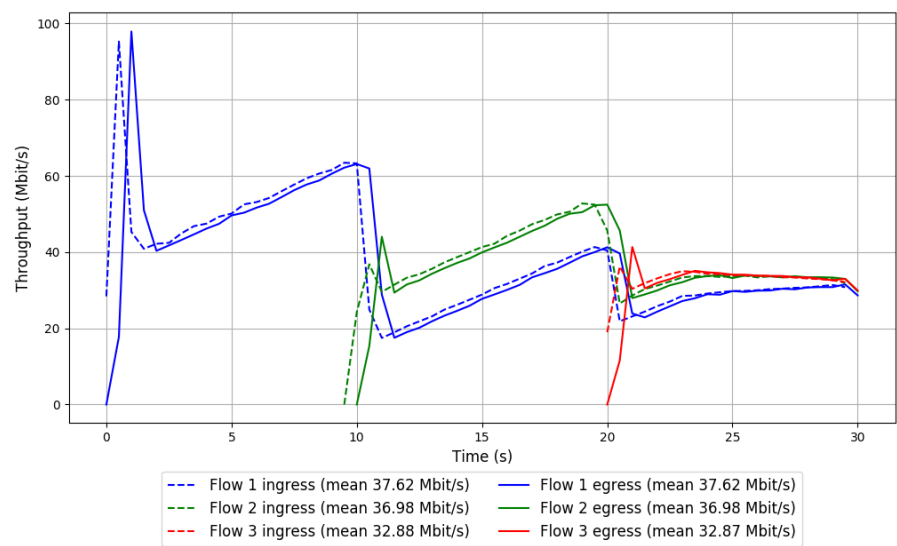
-- Flow 3:

Average throughput: 32.87 Mbit/s

95th percentile per-packet one-way delay: 44.696 ms

Loss rate: 0.68%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-10-03 12:26:27

End at: 2019-10-03 12:26:57

Local clock offset: 0.266 ms

Remote clock offset: 8.026 ms

Below is generated by plot.py at 2019-10-03 16:46:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.45 Mbit/s

95th percentile per-packet one-way delay: 37.225 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 48.82 Mbit/s

95th percentile per-packet one-way delay: 38.745 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 30.73 Mbit/s

95th percentile per-packet one-way delay: 35.714 ms

Loss rate: 0.39%

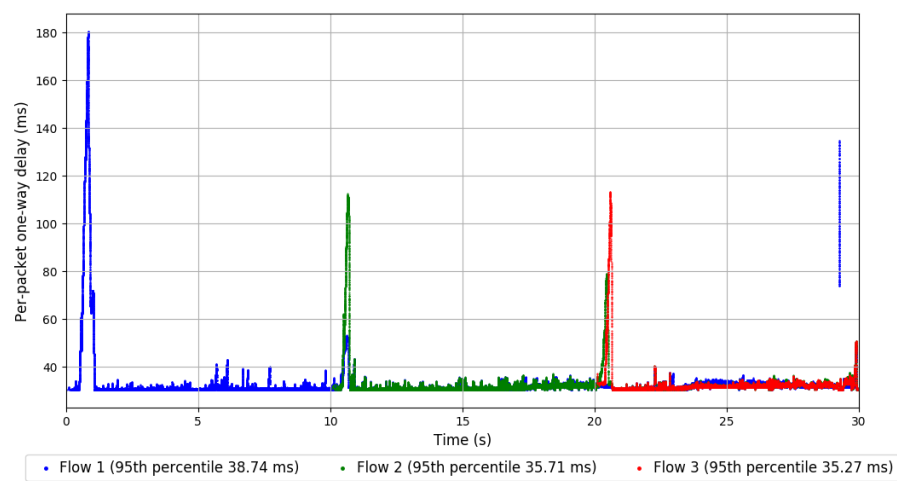
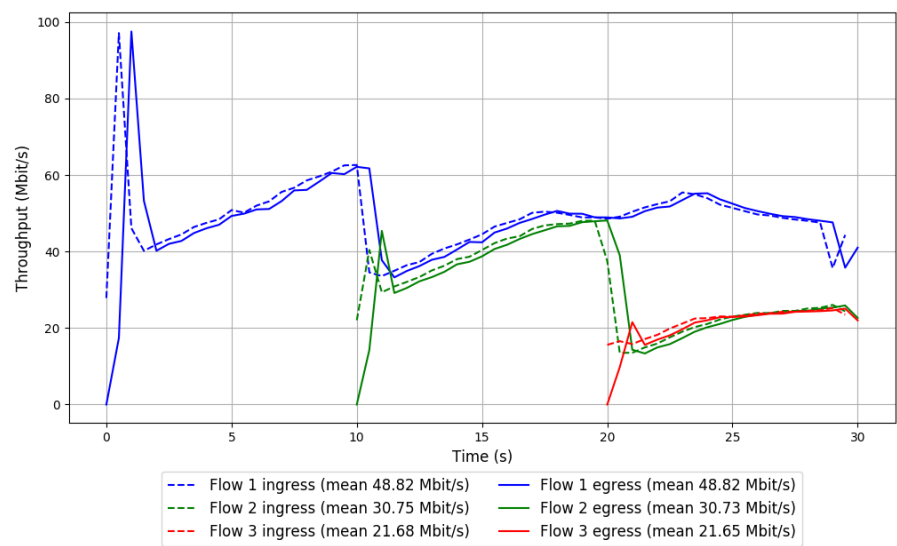
-- Flow 3:

Average throughput: 21.65 Mbit/s

95th percentile per-packet one-way delay: 35.274 ms

Loss rate: 0.78%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-10-03 13:25:41

End at: 2019-10-03 13:26:11

Local clock offset: 0.026 ms

Remote clock offset: 7.571 ms

Below is generated by plot.py at 2019-10-03 16:46:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.11 Mbit/s

95th percentile per-packet one-way delay: 36.837 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 57.09 Mbit/s

95th percentile per-packet one-way delay: 37.286 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 29.41 Mbit/s

95th percentile per-packet one-way delay: 35.428 ms

Loss rate: 0.27%

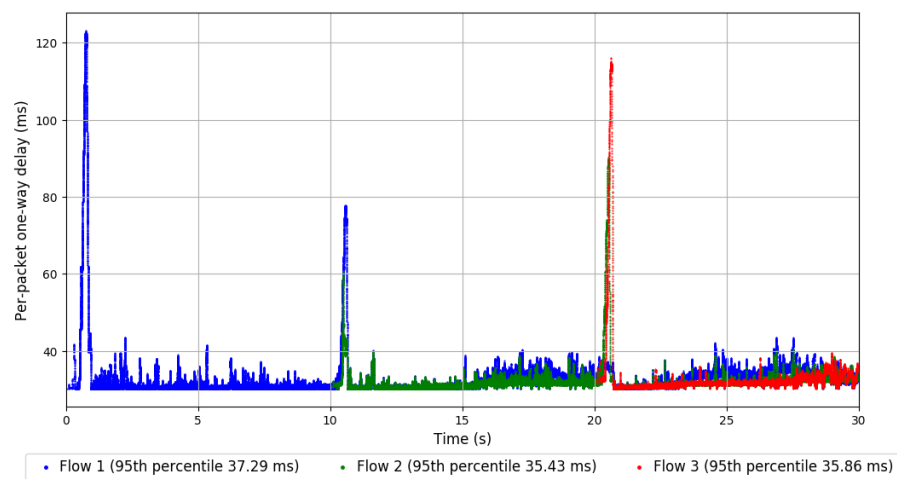
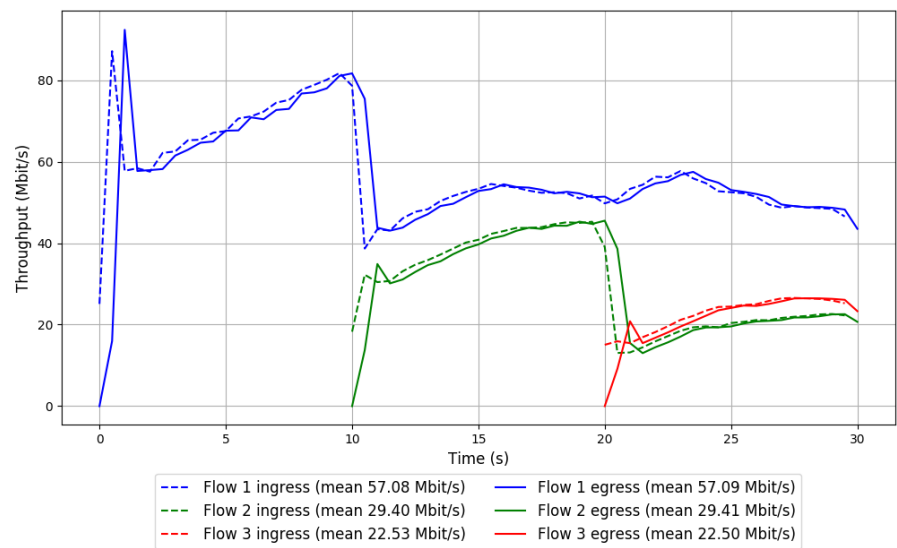
-- Flow 3:

Average throughput: 22.50 Mbit/s

95th percentile per-packet one-way delay: 35.864 ms

Loss rate: 0.80%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-10-03 14:43:55

End at: 2019-10-03 14:44:25

Local clock offset: 0.007 ms

Remote clock offset: 7.744 ms

Below is generated by plot.py at 2019-10-03 16:46:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.90 Mbit/s

95th percentile per-packet one-way delay: 42.916 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 39.39 Mbit/s

95th percentile per-packet one-way delay: 48.308 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 44.56 Mbit/s

95th percentile per-packet one-way delay: 39.628 ms

Loss rate: 0.28%

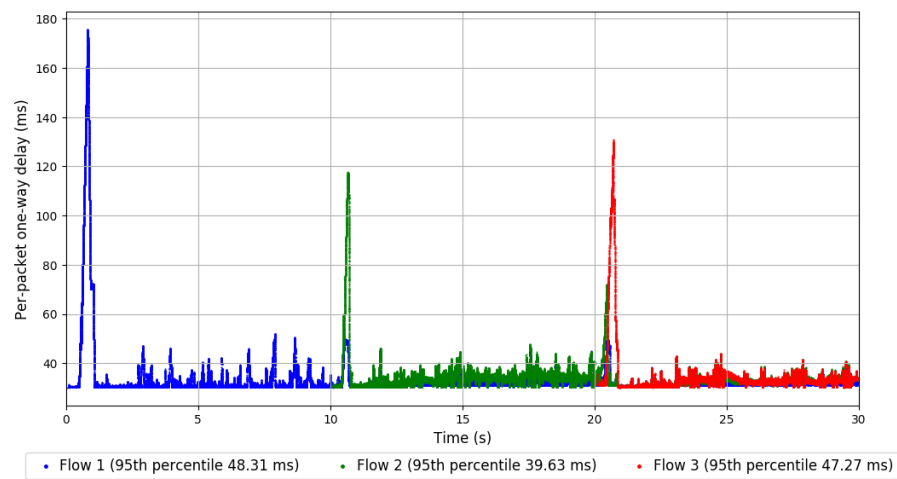
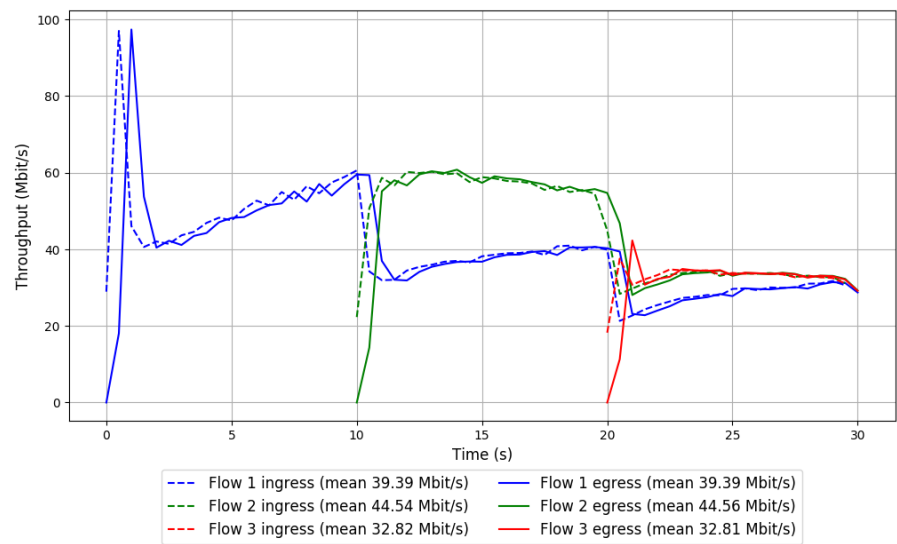
-- Flow 3:

Average throughput: 32.81 Mbit/s

95th percentile per-packet one-way delay: 47.268 ms

Loss rate: 0.69%

Run 4: Report of TCP Vegas — Data Link

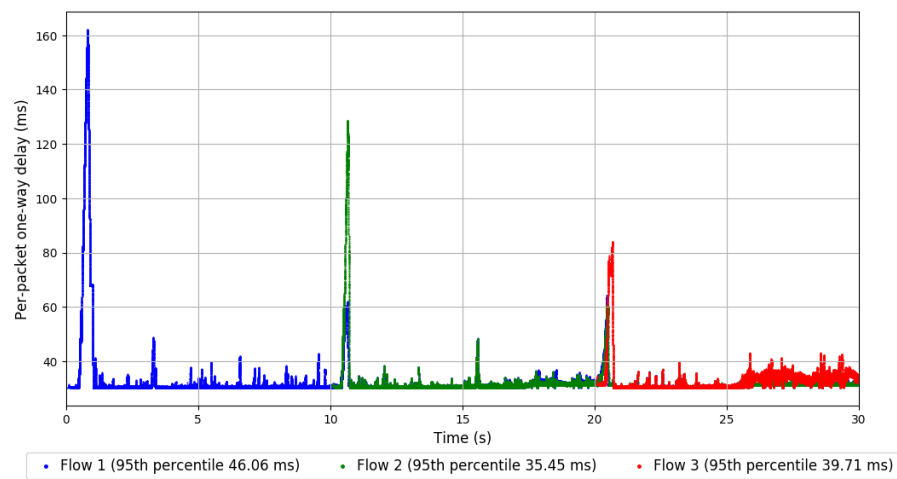
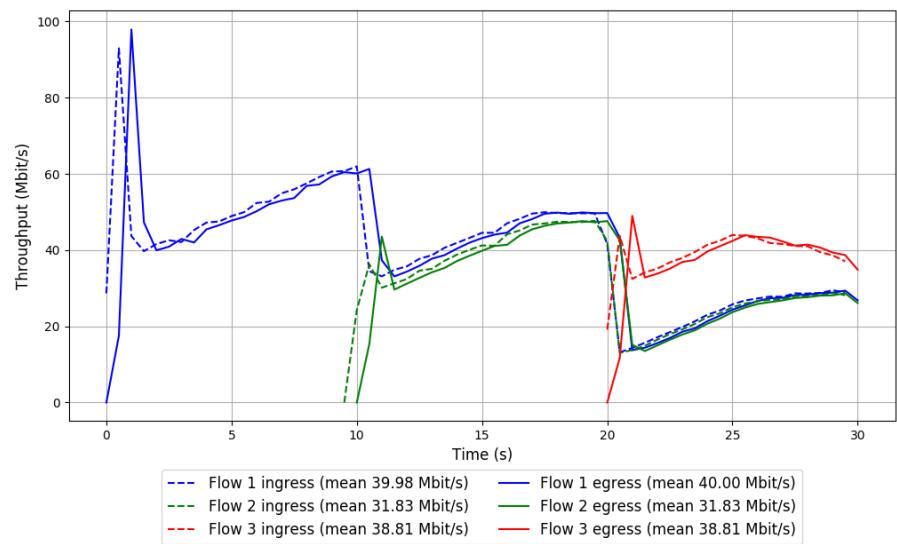


Run 5: Statistics of TCP Vegas

Start at: 2019-10-03 16:04:11
End at: 2019-10-03 16:04:41
Local clock offset: -0.019 ms
Remote clock offset: 6.635 ms

Below is generated by plot.py at 2019-10-03 16:46:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.05 Mbit/s
95th percentile per-packet one-way delay: 40.560 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 40.00 Mbit/s
95th percentile per-packet one-way delay: 46.062 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 35.445 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 39.714 ms
Loss rate: 0.66%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-10-03 11:40:12

End at: 2019-10-03 11:40:42

Local clock offset: 0.346 ms

Remote clock offset: 7.723 ms

Below is generated by plot.py at 2019-10-03 16:46:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 124.656 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 58.61 Mbit/s

95th percentile per-packet one-way delay: 117.615 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 34.40 Mbit/s

95th percentile per-packet one-way delay: 141.018 ms

Loss rate: 0.41%

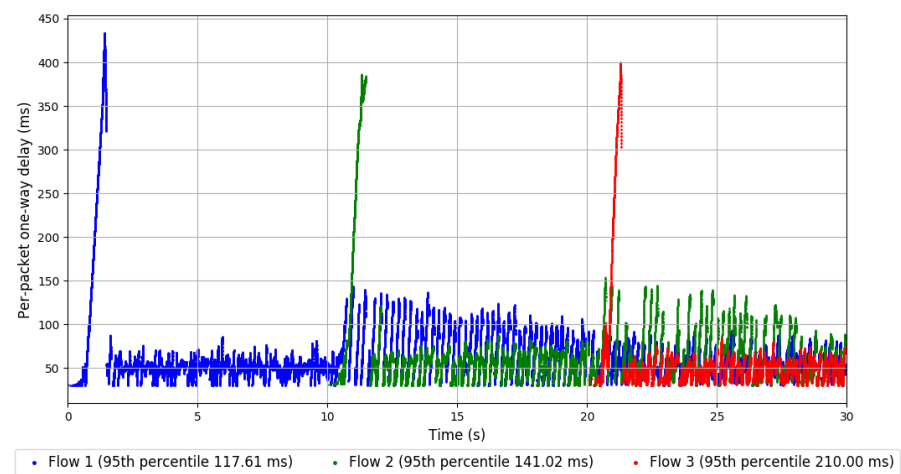
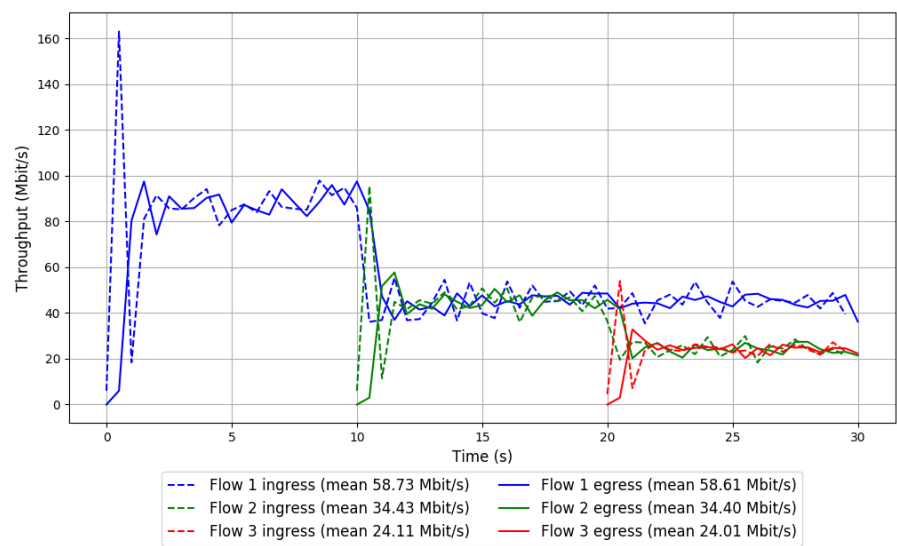
-- Flow 3:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 210.003 ms

Loss rate: 1.07%

Run 1: Report of Verus — Data Link

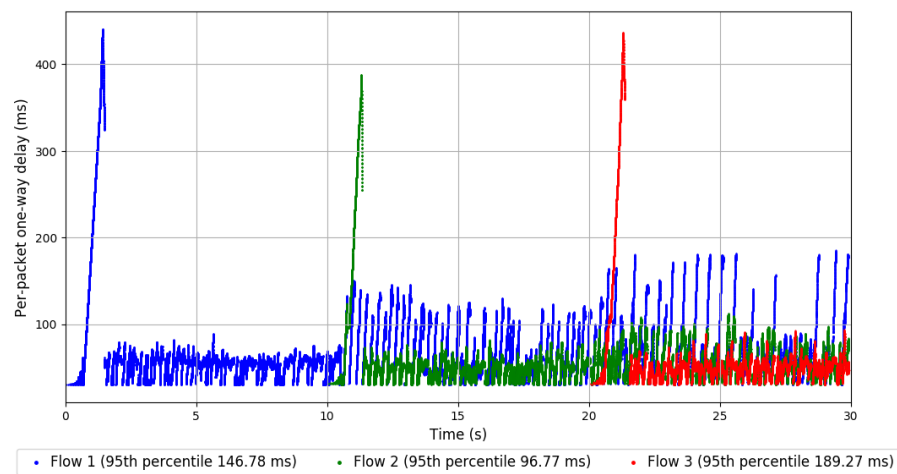
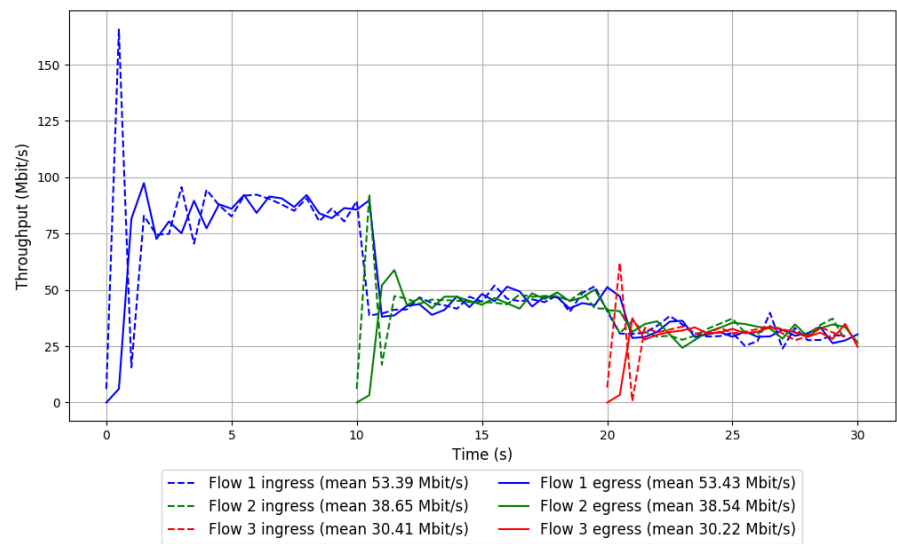


Run 2: Statistics of Verus

Start at: 2019-10-03 12:33:35
End at: 2019-10-03 12:34:05
Local clock offset: 0.265 ms
Remote clock offset: 7.698 ms

Below is generated by plot.py at 2019-10-03 16:46:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.00 Mbit/s
95th percentile per-packet one-way delay: 141.426 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 53.43 Mbit/s
95th percentile per-packet one-way delay: 146.782 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 38.54 Mbit/s
95th percentile per-packet one-way delay: 96.772 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 30.22 Mbit/s
95th percentile per-packet one-way delay: 189.274 ms
Loss rate: 1.23%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-10-03 13:35:56

End at: 2019-10-03 13:36:26

Local clock offset: -0.05 ms

Remote clock offset: 7.709 ms

Below is generated by plot.py at 2019-10-03 16:46:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.71 Mbit/s

95th percentile per-packet one-way delay: 256.909 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 52.30 Mbit/s

95th percentile per-packet one-way delay: 133.263 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 44.20 Mbit/s

95th percentile per-packet one-way delay: 82.735 ms

Loss rate: 0.64%

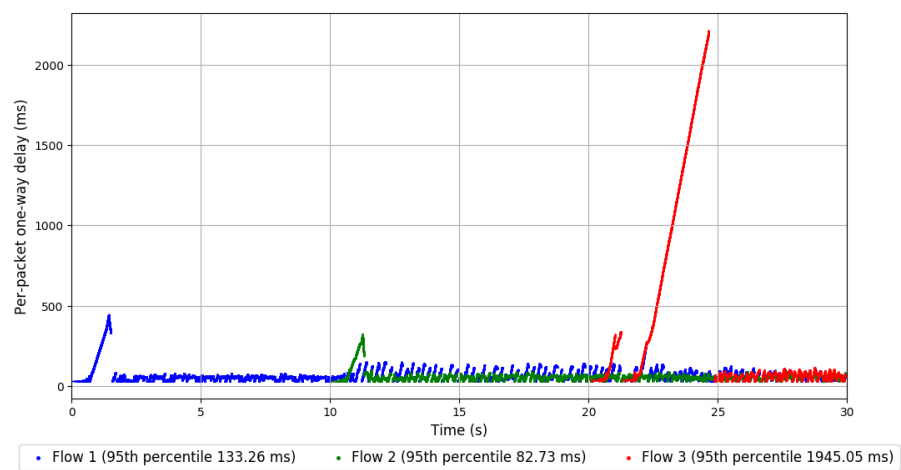
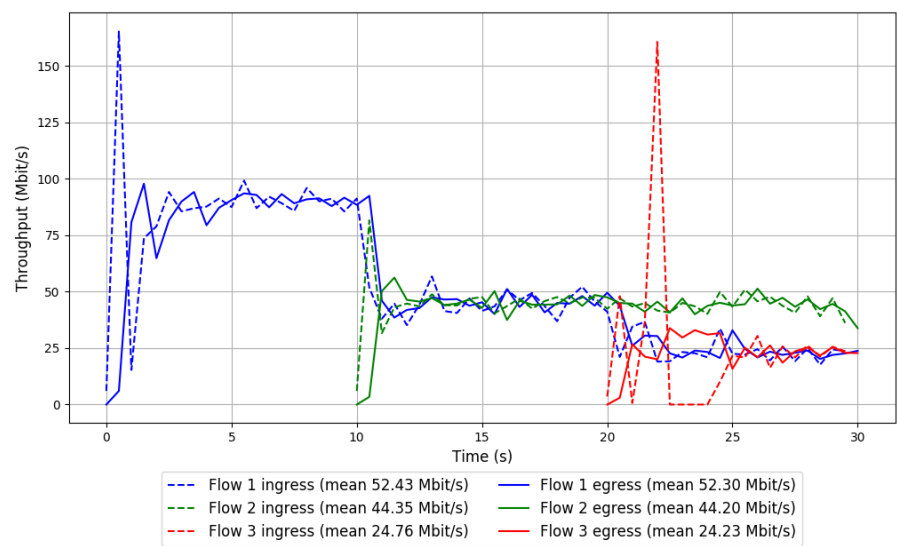
-- Flow 3:

Average throughput: 24.23 Mbit/s

95th percentile per-packet one-way delay: 1945.053 ms

Loss rate: 2.73%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-10-03 14:53:47

End at: 2019-10-03 14:54:17

Local clock offset: -0.016 ms

Remote clock offset: 7.508 ms

Below is generated by plot.py at 2019-10-03 16:46:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.58 Mbit/s

95th percentile per-packet one-way delay: 136.601 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 50.66 Mbit/s

95th percentile per-packet one-way delay: 148.112 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 44.33 Mbit/s

95th percentile per-packet one-way delay: 85.657 ms

Loss rate: 0.45%

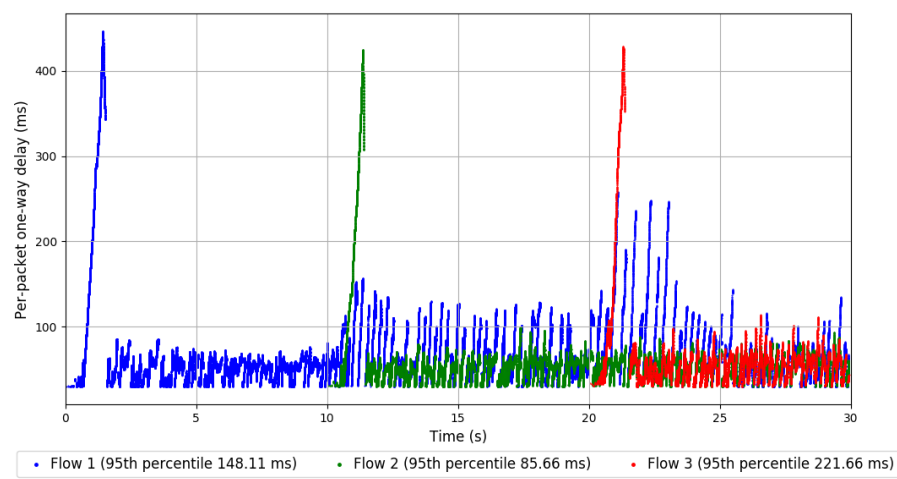
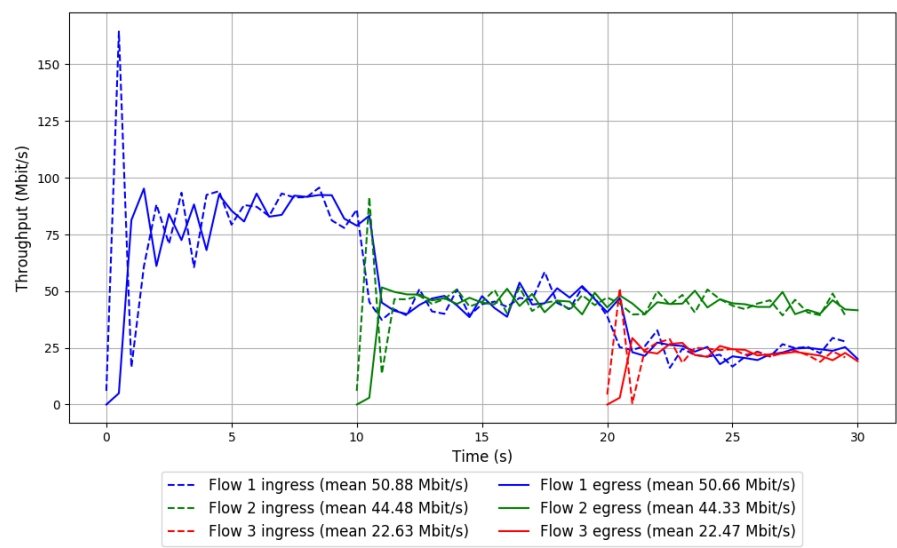
-- Flow 3:

Average throughput: 22.47 Mbit/s

95th percentile per-packet one-way delay: 221.662 ms

Loss rate: 1.35%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-10-03 16:11:38

End at: 2019-10-03 16:12:08

Local clock offset: 0.023 ms

Remote clock offset: 6.52 ms

Below is generated by plot.py at 2019-10-03 16:46:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.29 Mbit/s

95th percentile per-packet one-way delay: 164.949 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 51.92 Mbit/s

95th percentile per-packet one-way delay: 162.997 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 43.15 Mbit/s

95th percentile per-packet one-way delay: 165.201 ms

Loss rate: 0.69%

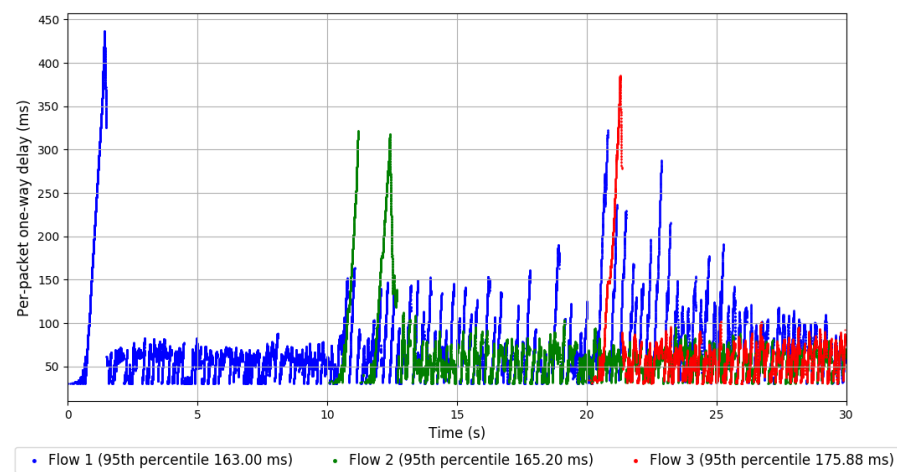
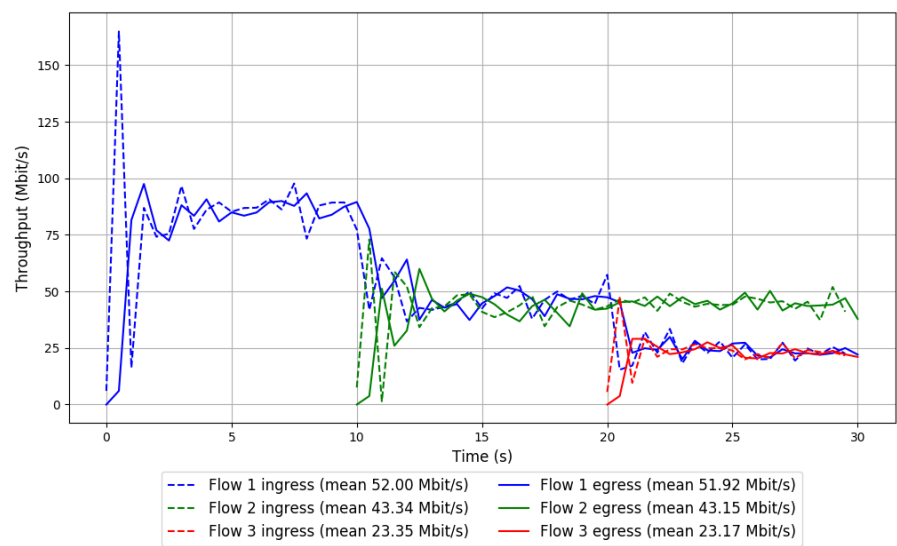
-- Flow 3:

Average throughput: 23.17 Mbit/s

95th percentile per-packet one-way delay: 175.879 ms

Loss rate: 1.23%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-10-03 11:11:29

End at: 2019-10-03 11:11:59

Local clock offset: 0.415 ms

Remote clock offset: 6.82 ms

Below is generated by plot.py at 2019-10-03 16:47:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.10 Mbit/s

95th percentile per-packet one-way delay: 1517.780 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 57.81 Mbit/s

95th percentile per-packet one-way delay: 1521.837 ms

Loss rate: 3.53%

-- Flow 2:

Average throughput: 32.09 Mbit/s

95th percentile per-packet one-way delay: 324.017 ms

Loss rate: 1.44%

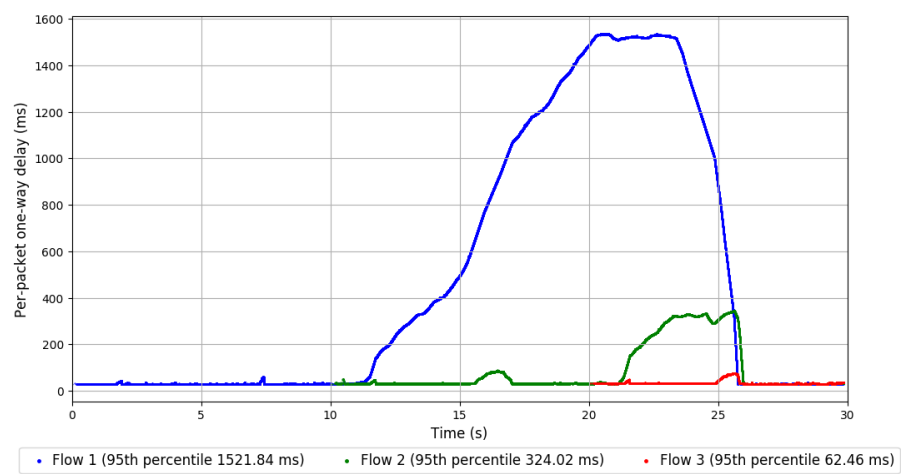
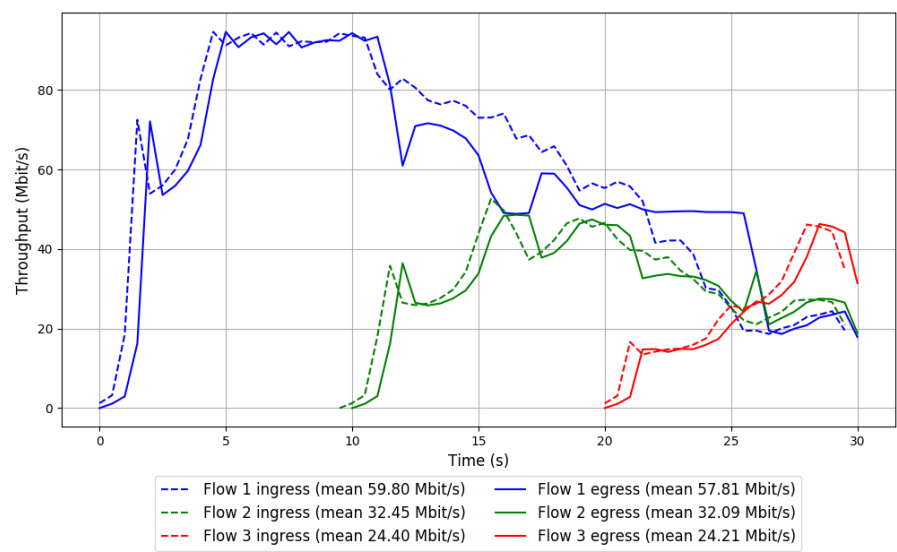
-- Flow 3:

Average throughput: 24.21 Mbit/s

95th percentile per-packet one-way delay: 62.461 ms

Loss rate: 1.43%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-10-03 12:01:37

End at: 2019-10-03 12:02:07

Local clock offset: 0.316 ms

Remote clock offset: 7.791 ms

Below is generated by plot.py at 2019-10-03 16:47:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.07 Mbit/s

95th percentile per-packet one-way delay: 1734.146 ms

Loss rate: 4.04%

-- Flow 1:

Average throughput: 51.20 Mbit/s

95th percentile per-packet one-way delay: 1926.633 ms

Loss rate: 6.17%

-- Flow 2:

Average throughput: 40.91 Mbit/s

95th percentile per-packet one-way delay: 55.871 ms

Loss rate: 0.39%

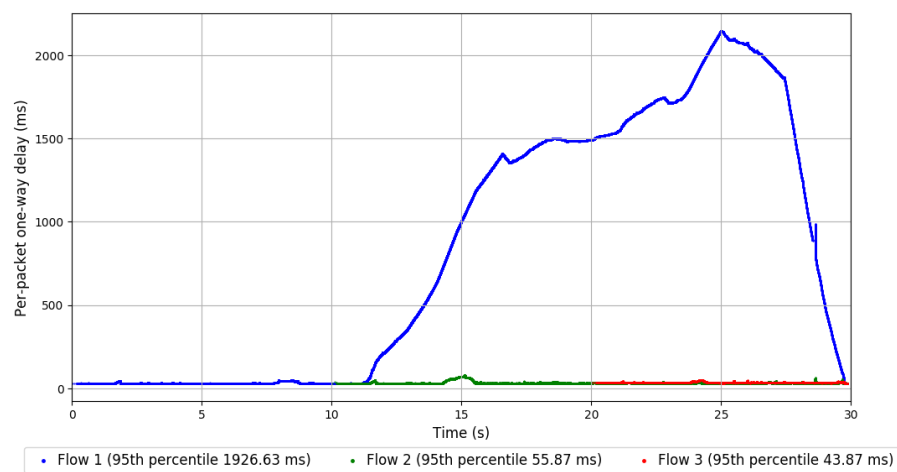
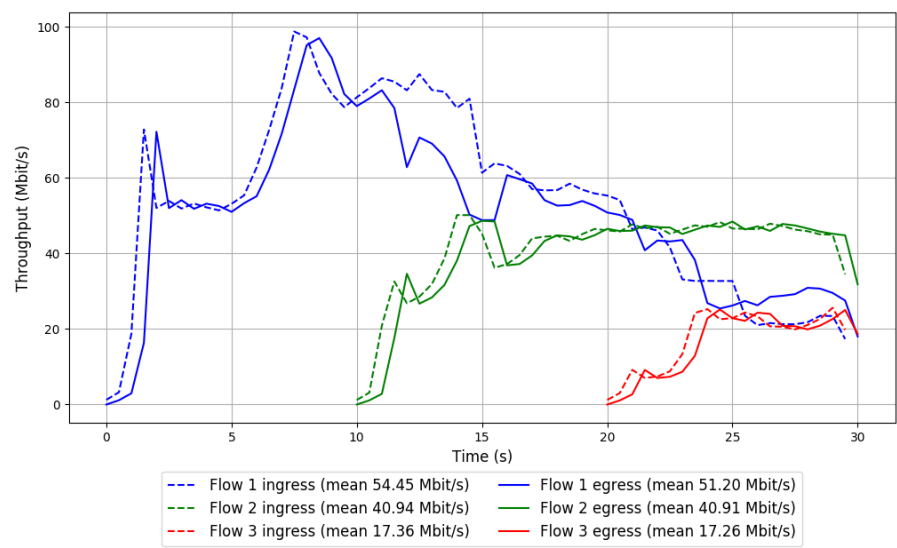
-- Flow 3:

Average throughput: 17.26 Mbit/s

95th percentile per-packet one-way delay: 43.868 ms

Loss rate: 1.20%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-10-03 12:59:26

End at: 2019-10-03 12:59:56

Local clock offset: 0.173 ms

Remote clock offset: 7.36 ms

Below is generated by plot.py at 2019-10-03 16:47:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.52 Mbit/s

95th percentile per-packet one-way delay: 1550.107 ms

Loss rate: 5.88%

-- Flow 1:

Average throughput: 55.48 Mbit/s

95th percentile per-packet one-way delay: 1563.094 ms

Loss rate: 8.48%

-- Flow 2:

Average throughput: 38.61 Mbit/s

95th percentile per-packet one-way delay: 61.990 ms

Loss rate: 0.27%

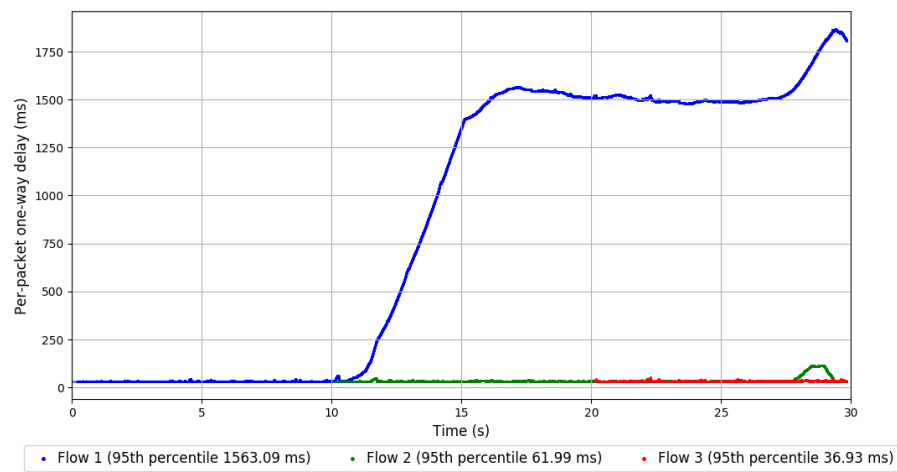
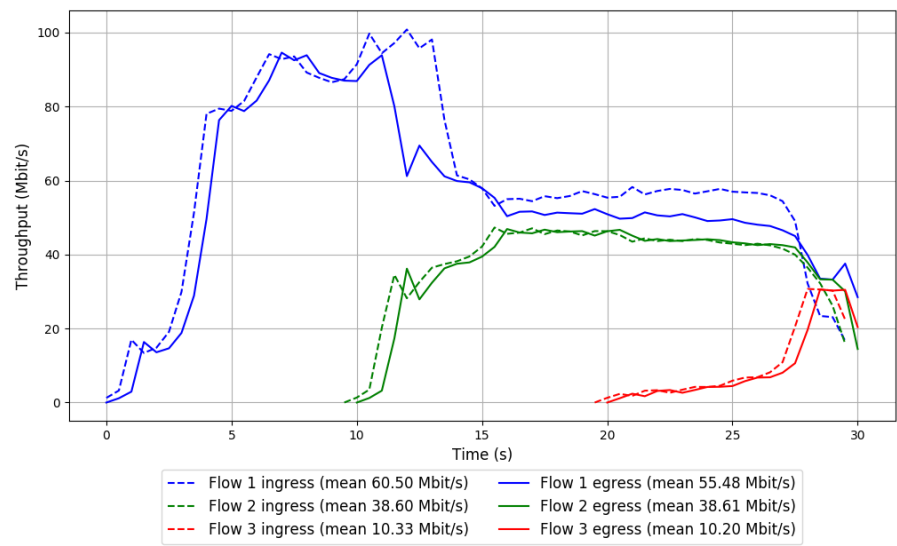
-- Flow 3:

Average throughput: 10.20 Mbit/s

95th percentile per-packet one-way delay: 36.926 ms

Loss rate: 1.95%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-10-03 14:09:56

End at: 2019-10-03 14:10:26

Local clock offset: 0.02 ms

Remote clock offset: 7.425 ms

Below is generated by plot.py at 2019-10-03 16:47:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.01 Mbit/s

95th percentile per-packet one-way delay: 418.269 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 48.07 Mbit/s

95th percentile per-packet one-way delay: 393.629 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 32.59 Mbit/s

95th percentile per-packet one-way delay: 450.597 ms

Loss rate: 1.54%

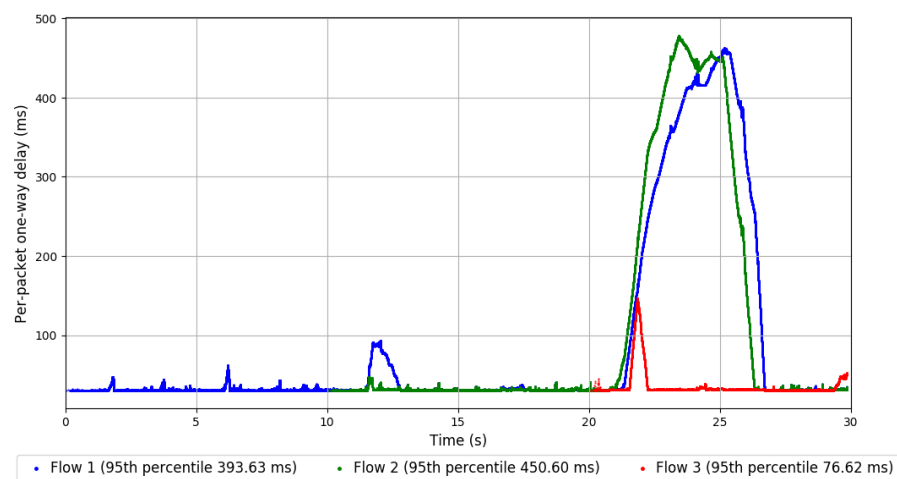
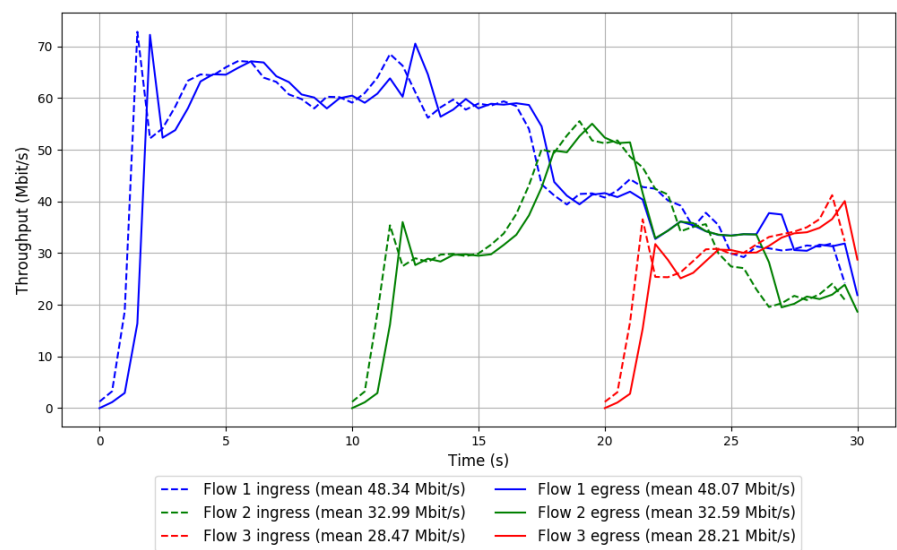
-- Flow 3:

Average throughput: 28.21 Mbit/s

95th percentile per-packet one-way delay: 76.622 ms

Loss rate: 1.53%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-10-03 15:40:41

End at: 2019-10-03 15:41:11

Local clock offset: -0.075 ms

Remote clock offset: 7.131 ms

Below is generated by plot.py at 2019-10-03 16:47:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.30 Mbit/s

95th percentile per-packet one-way delay: 734.636 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 57.00 Mbit/s

95th percentile per-packet one-way delay: 814.262 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 24.65 Mbit/s

95th percentile per-packet one-way delay: 44.892 ms

Loss rate: 0.42%

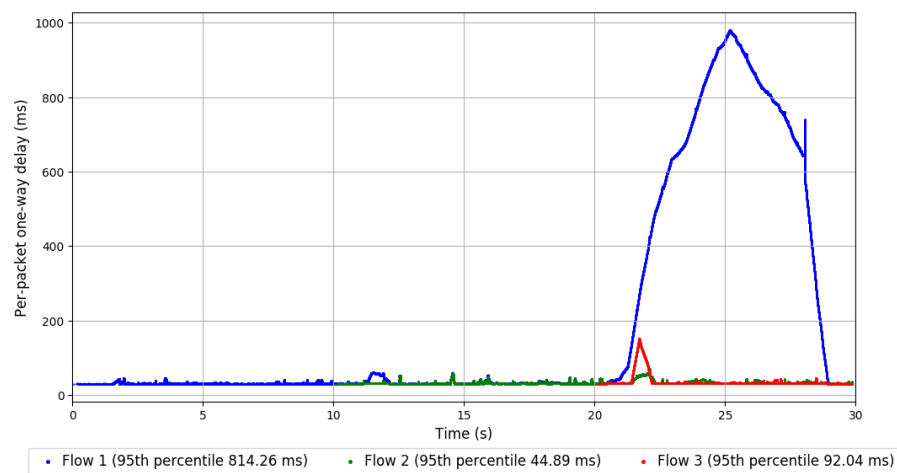
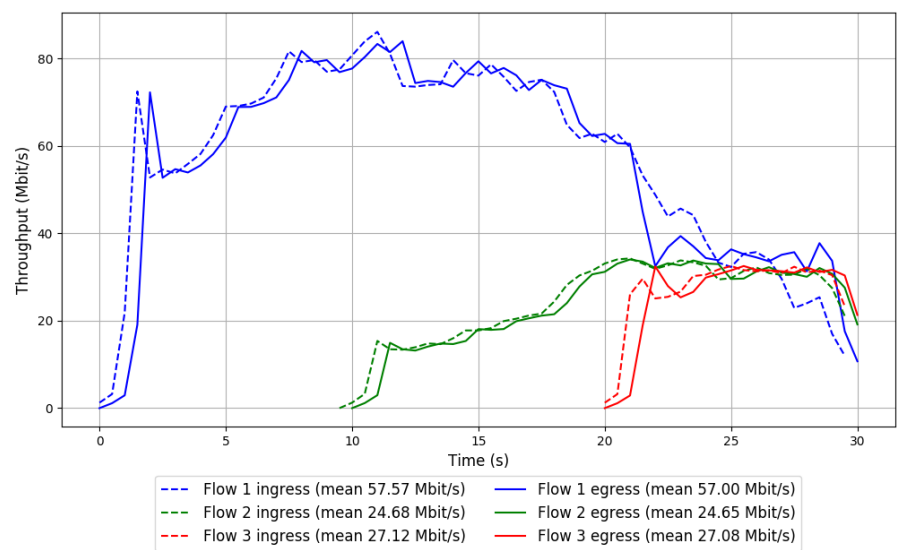
-- Flow 3:

Average throughput: 27.08 Mbit/s

95th percentile per-packet one-way delay: 92.039 ms

Loss rate: 0.80%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-10-03 11:18:19

End at: 2019-10-03 11:18:49

Local clock offset: 0.383 ms

Remote clock offset: 6.909 ms

Below is generated by plot.py at 2019-10-03 16:47:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 31.616 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 31.324 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 32.271 ms

Loss rate: 0.21%

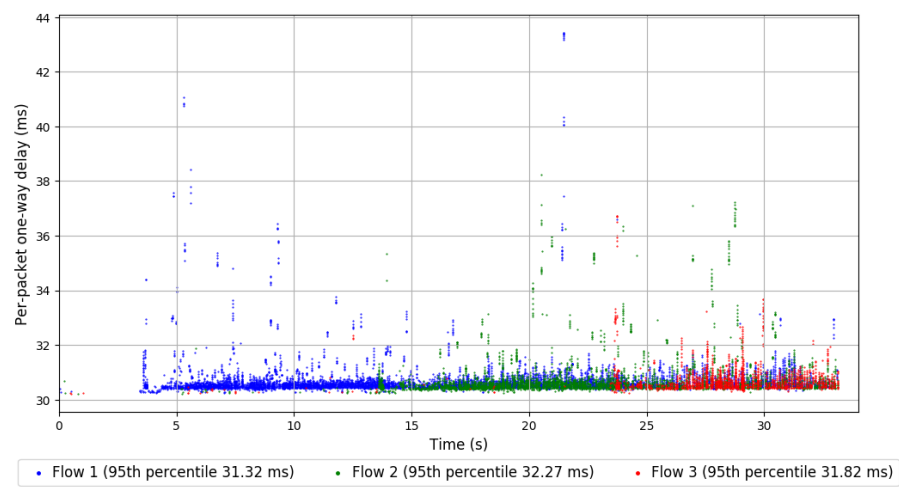
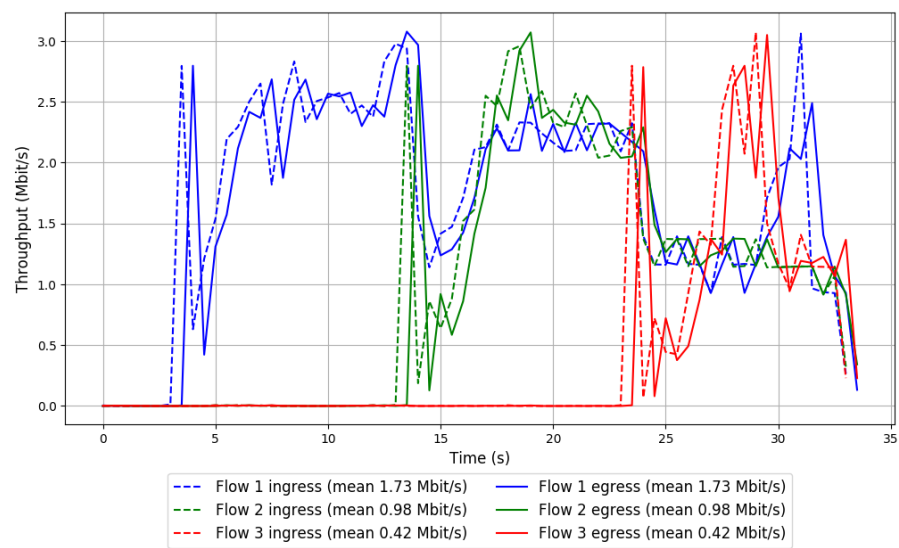
-- Flow 3:

Average throughput: 0.42 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-10-03 12:08:38

End at: 2019-10-03 12:09:08

Local clock offset: 0.268 ms

Remote clock offset: 7.867 ms

Below is generated by plot.py at 2019-10-03 16:47:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.22 Mbit/s

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

Loss rate: 0.28%

-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 31.117 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 31.816 ms

Loss rate: 0.34%

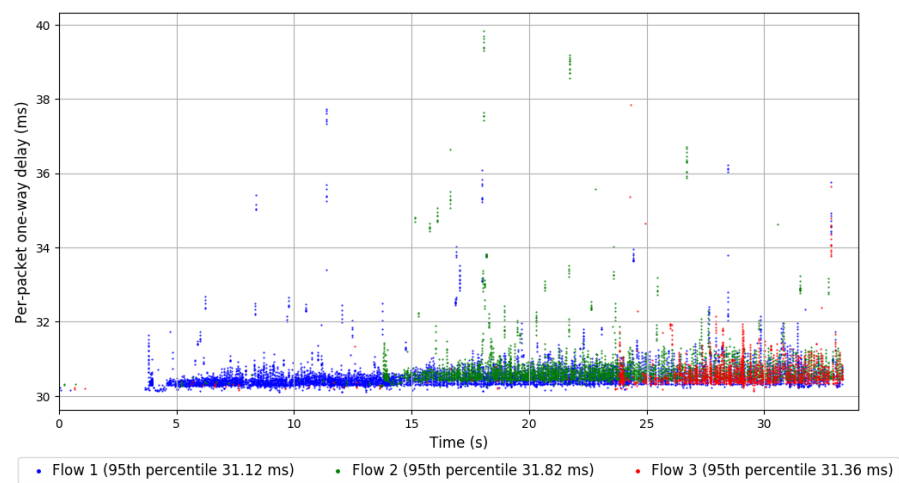
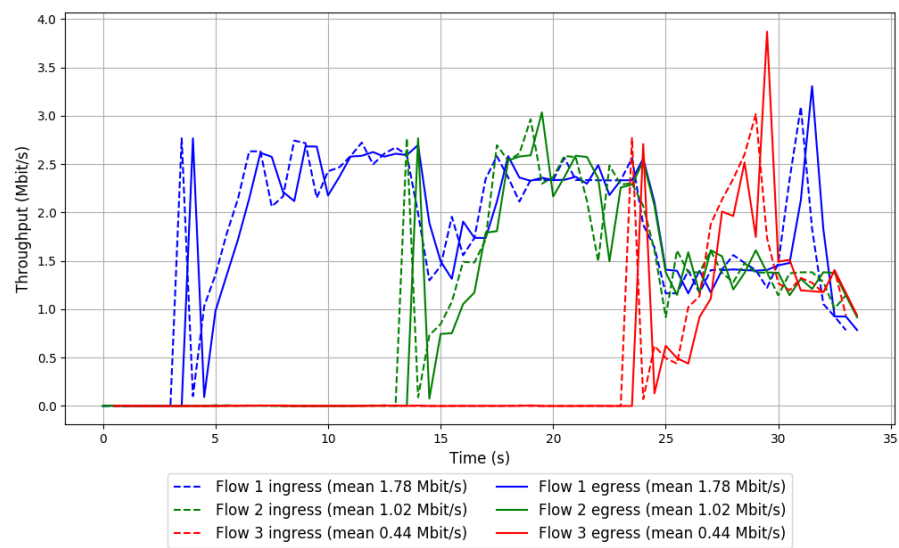
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 31.363 ms

Loss rate: 0.81%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-10-03 13:06:52

End at: 2019-10-03 13:07:22

Local clock offset: 0.153 ms

Remote clock offset: 7.515 ms

Below is generated by plot.py at 2019-10-03 16:47:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 31.728 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 31.919 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 31.526 ms

Loss rate: 0.36%

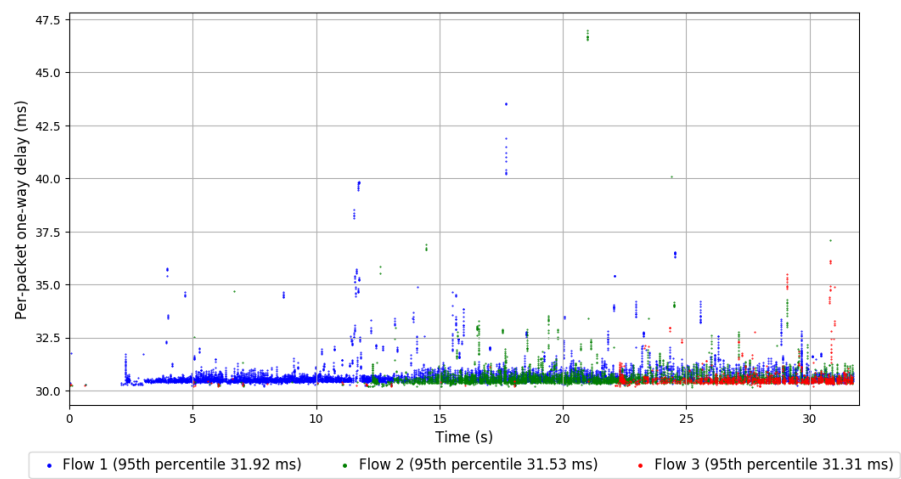
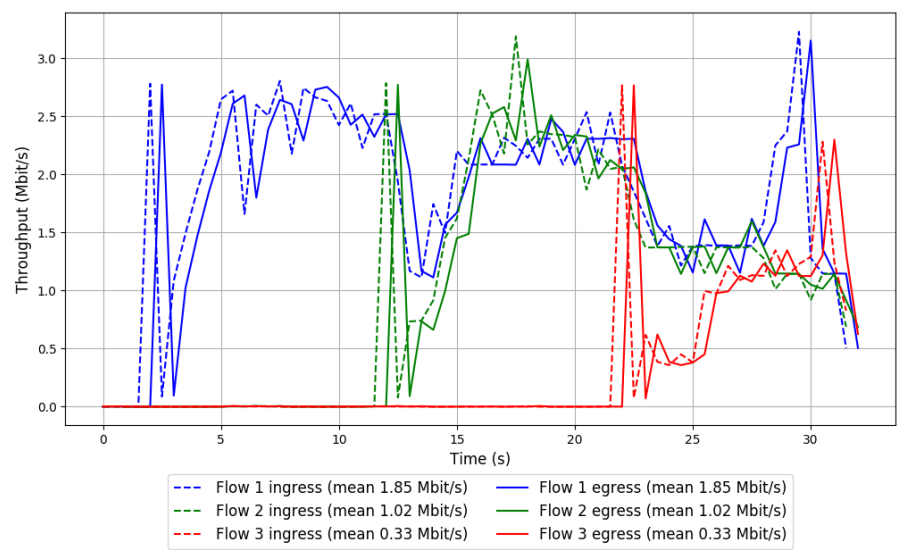
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 31.311 ms

Loss rate: 0.96%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-10-03 14:19:34

End at: 2019-10-03 14:20:04

Local clock offset: 0.088 ms

Remote clock offset: 7.517 ms

Below is generated by plot.py at 2019-10-03 16:47:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 31.918 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 31.985 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 31.587 ms

Loss rate: 0.36%

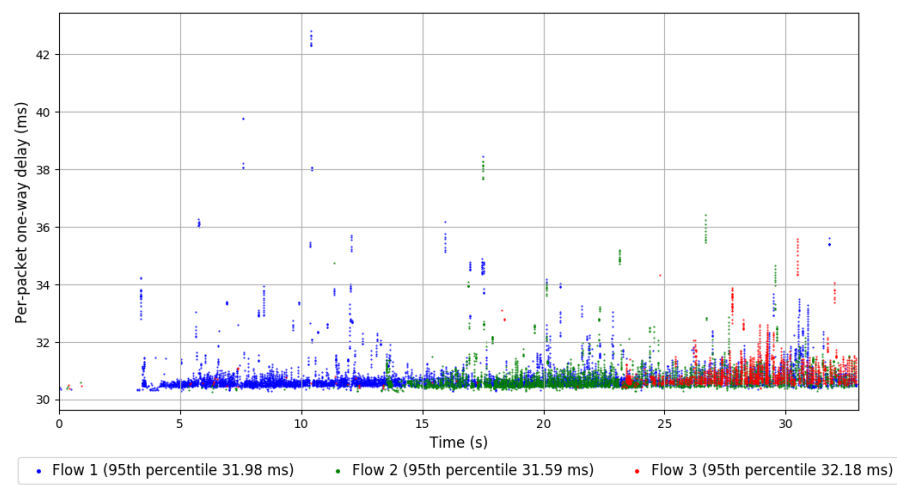
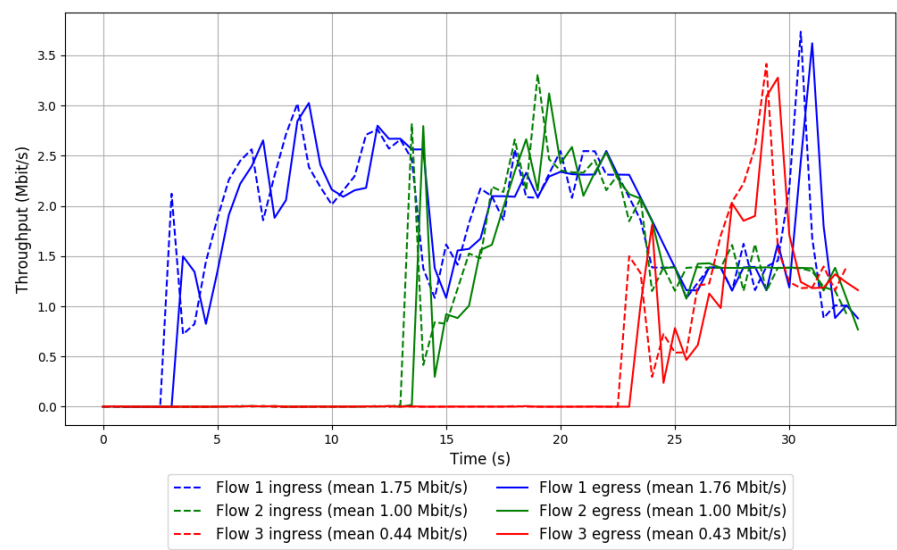
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 32.180 ms

Loss rate: 0.82%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-10-03 15:47:50

End at: 2019-10-03 15:48:20

Local clock offset: -0.099 ms

Remote clock offset: 7.137 ms

Below is generated by plot.py at 2019-10-03 16:47:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 31.139 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 31.160 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 31.026 ms

Loss rate: 0.71%

-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 31.296 ms

Loss rate: 0.35%

Run 5: Report of WebRTC media — Data Link

