

Pantheon Report

Generated at 2019-09-19 01:31:03 (UTC).

Data path: India on em1 (*remote*) → AWS India 1 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 `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

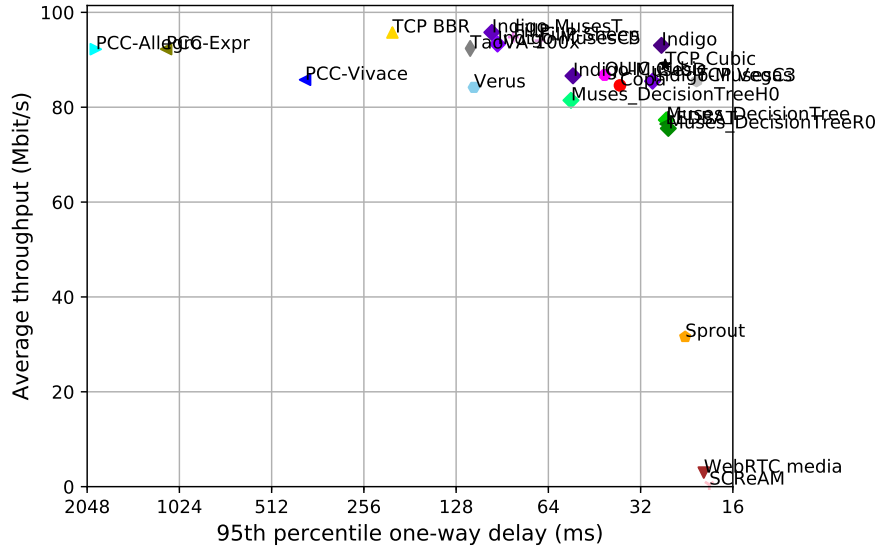
```
Linux 4.15.0-1045-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

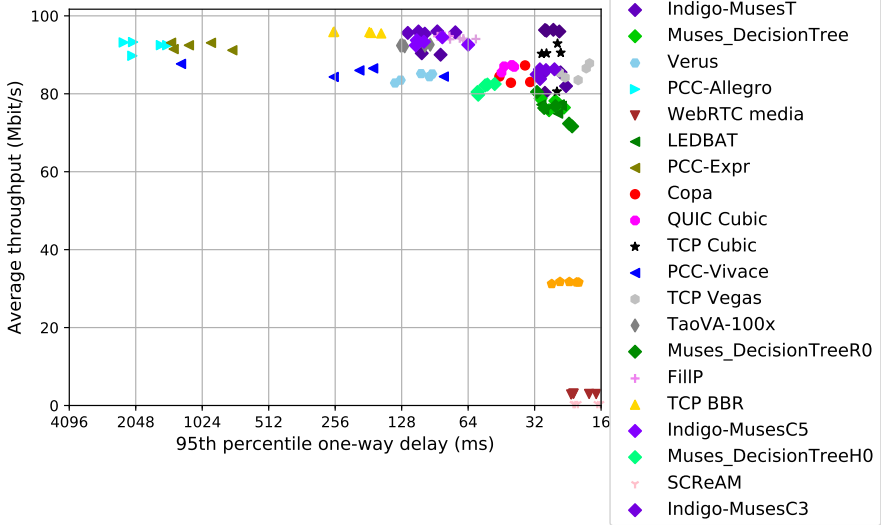
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 India to AWS India 1, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from India to AWS India 1, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	59.83	40.04	28.01	119.53	204.98	398.58	1.07	1.66	3.02
Copa	5	49.60	38.55	28.16	42.85	36.32	27.31	0.11	0.23	0.59
TCP Cubic	5	52.98	39.02	30.13	28.03	25.79	27.29	0.16	0.28	0.53
FillP	5	56.89	39.30	35.46	71.31	91.23	67.06	0.32	2.49	2.05
FillP-Sheep	5	57.25	41.23	28.23	72.25	54.31	93.10	0.19	0.35	1.23
Indigo	5	59.07	37.86	26.94	28.15	28.61	27.61	0.14	0.27	0.60
Indigo-MusesC3	5	57.79	32.90	25.30	30.21	27.86	28.67	0.12	0.19	0.89
Indigo-MusesC5	5	58.49	39.39	36.17	83.83	103.52	78.08	1.34	2.98	4.56
Indigo-MusesD	5	51.76	46.57	20.12	25.52	61.99	32.01	0.10	0.66	0.85
Indigo-MusesT	5	61.24	43.56	26.57	85.40	110.67	112.72	0.84	1.38	2.76
LEDBAT	5	46.39	32.92	24.60	25.92	27.61	28.52	0.14	0.27	0.61
Muses_DecisionTree	5	51.66	29.16	20.15	25.03	26.81	47.13	0.05	0.11	0.25
Muses_DecisionTreeH0	5	51.17	32.70	27.45	60.54	50.56	44.44	0.12	0.21	0.54
Muses_DecisionTreeR0	5	52.59	27.53	15.03	24.57	28.19	42.02	0.06	0.13	0.42
PCC-Allegro	5	58.23	36.73	29.20	1950.90	1572.01	327.91	13.74	13.04	3.65
PCC-Expr	5	57.00	37.14	32.11	901.07	1343.67	174.61	29.71	12.45	2.43
QUIC Cubic	5	52.98	39.22	23.35	40.82	37.85	54.66	0.16	0.31	0.75
SReAM	5	0.22	0.22	0.22	19.08	19.08	19.08	0.16	0.19	0.64
Sprout	5	15.96	15.84	15.49	22.59	23.05	23.17	0.18	0.28	0.57
TaoVA-100x	5	54.82	42.17	28.69	113.79	106.70	146.13	0.61	1.37	3.17
TCP Vegas	5	49.00	39.50	30.86	23.35	20.47	29.20	0.15	0.21	0.53
Verus	5	49.69	35.26	33.36	129.57	115.13	211.36	0.32	0.43	0.97
PCC-Vivace	5	55.95	33.46	23.07	227.16	628.45	53.90	0.52	3.13	0.96
WebRTC media	5	1.62	0.94	0.40	19.83	19.95	19.89	0.07	0.08	0.42

Run 1: Statistics of TCP BBR

Start at: 2019-09-18 22:42:44

End at: 2019-09-18 22:43:14

Local clock offset: 0.062 ms

Remote clock offset: 0.251 ms

Below is generated by plot.py at 2019-09-19 01:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 258.753 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 58.41 Mbit/s

95th percentile per-packet one-way delay: 119.046 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 40.08 Mbit/s

95th percentile per-packet one-way delay: 258.393 ms

Loss rate: 1.74%

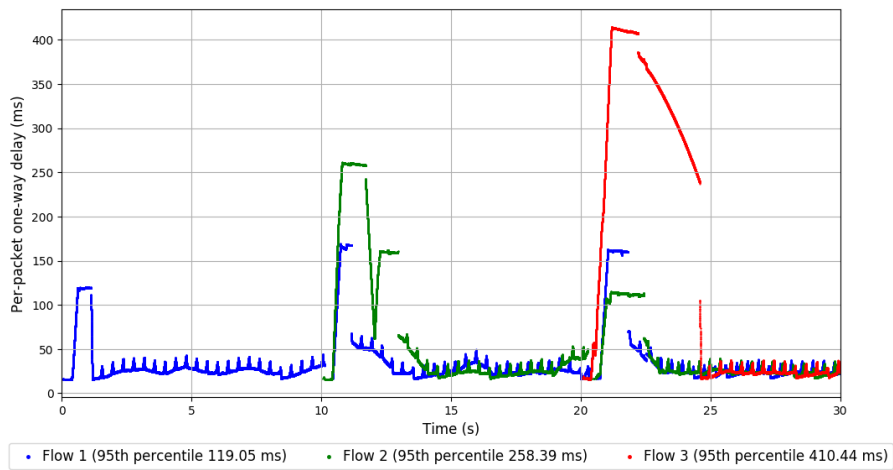
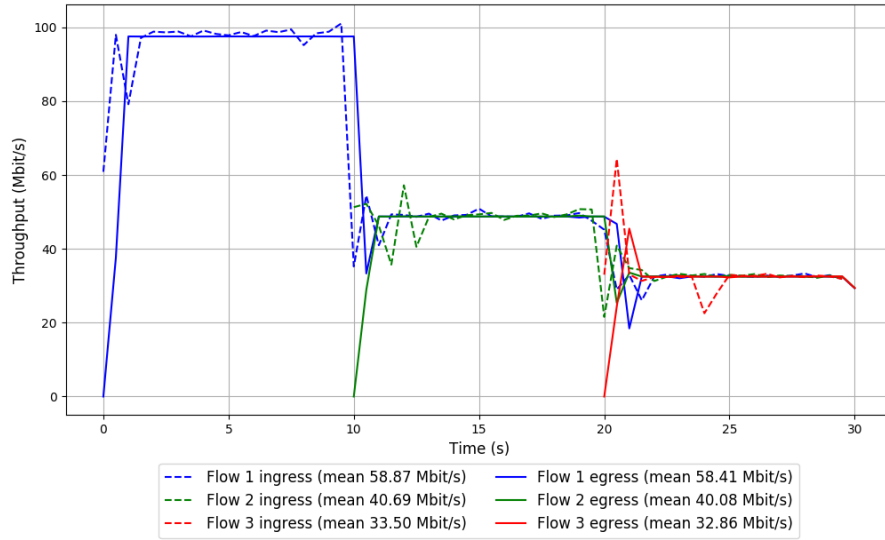
-- Flow 3:

Average throughput: 32.86 Mbit/s

95th percentile per-packet one-way delay: 410.438 ms

Loss rate: 2.44%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-09-18 23:12:55

End at: 2019-09-18 23:13:25

Local clock offset: 2.307 ms

Remote clock offset: 0.379 ms

Below is generated by plot.py at 2019-09-19 01:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.50 Mbit/s

95th percentile per-packet one-way delay: 158.463 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 63.34 Mbit/s

95th percentile per-packet one-way delay: 123.382 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 36.09 Mbit/s

95th percentile per-packet one-way delay: 156.262 ms

Loss rate: 1.71%

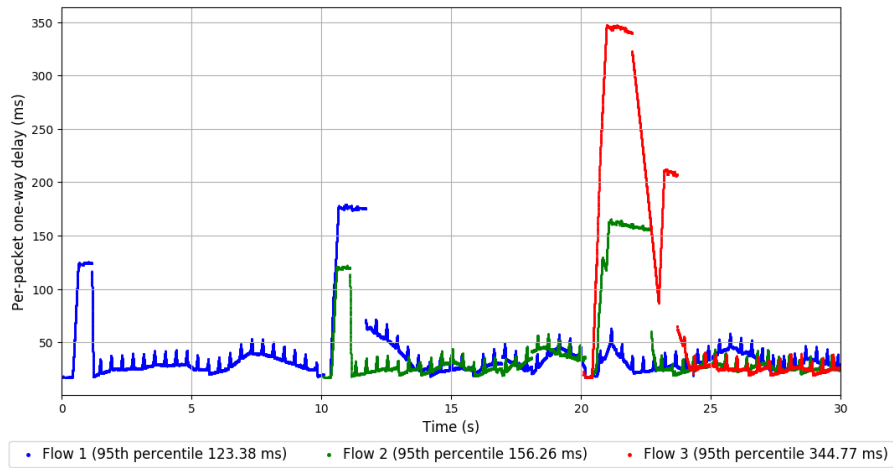
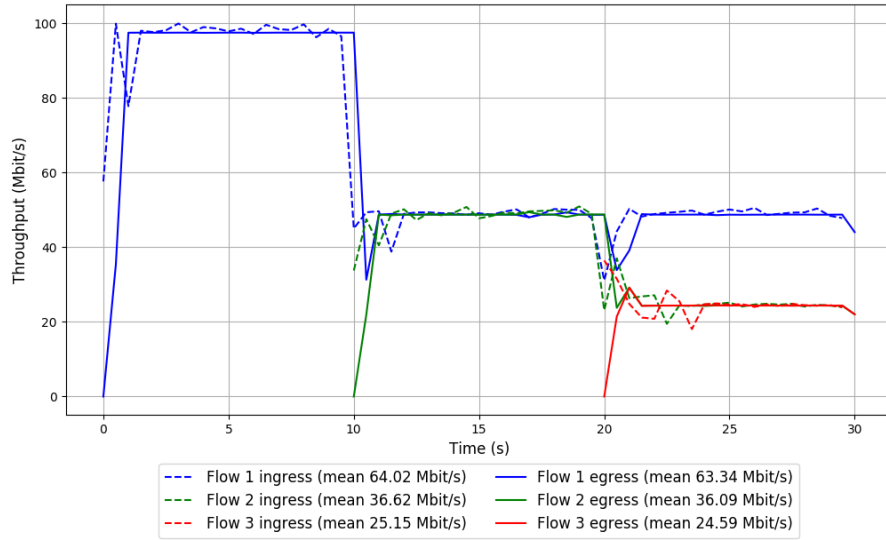
-- Flow 3:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 344.766 ms

Loss rate: 2.74%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-09-18 23:42:52

End at: 2019-09-18 23:43:22

Local clock offset: 0.41 ms

Remote clock offset: 1.863 ms

Below is generated by plot.py at 2019-09-19 01:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.84 Mbit/s

95th percentile per-packet one-way delay: 260.833 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 63.33 Mbit/s

95th percentile per-packet one-way delay: 121.221 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 36.36 Mbit/s

95th percentile per-packet one-way delay: 259.878 ms

Loss rate: 1.77%

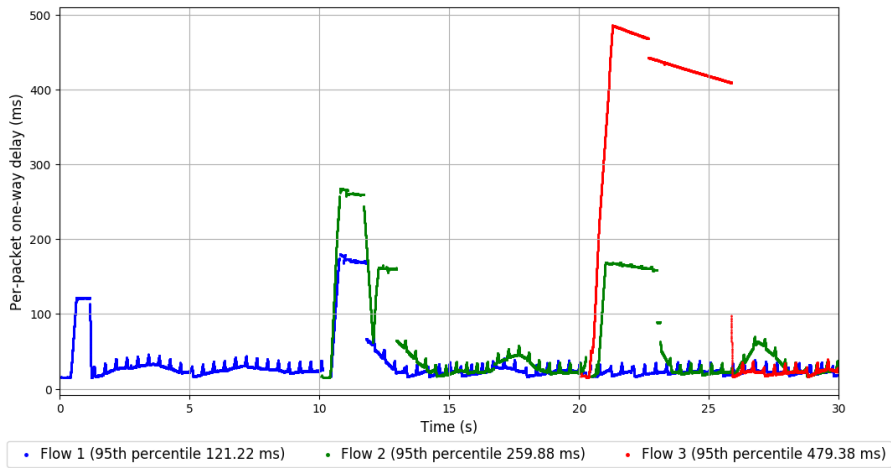
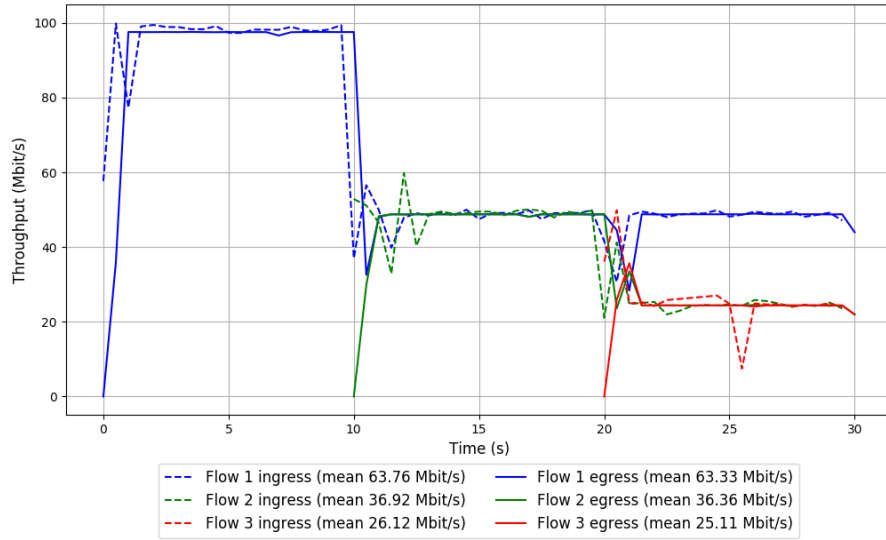
-- Flow 3:

Average throughput: 25.11 Mbit/s

95th percentile per-packet one-way delay: 479.380 ms

Loss rate: 4.39%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-09-19 00:12:29

End at: 2019-09-19 00:12:59

Local clock offset: 6.326 ms

Remote clock offset: 0.575 ms

Below is generated by plot.py at 2019-09-19 01:15:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.84 Mbit/s

95th percentile per-packet one-way delay: 179.195 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 55.86 Mbit/s

95th percentile per-packet one-way delay: 124.382 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 47.71 Mbit/s

95th percentile per-packet one-way delay: 224.656 ms

Loss rate: 1.83%

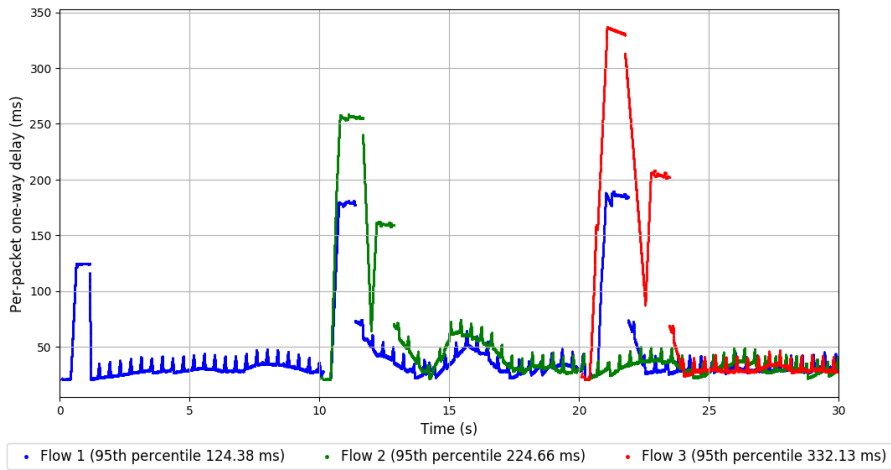
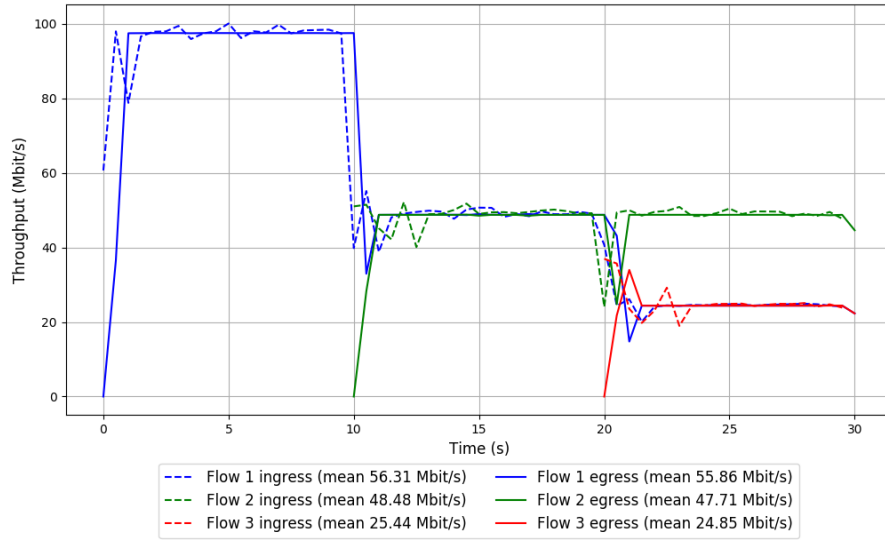
-- Flow 3:

Average throughput: 24.85 Mbit/s

95th percentile per-packet one-way delay: 332.130 ms

Loss rate: 2.86%

Run 4: Report of TCP BBR — Data Link

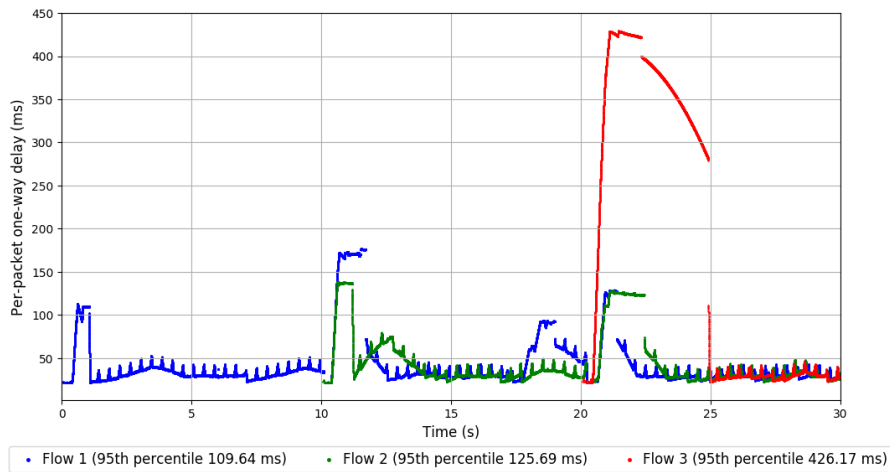
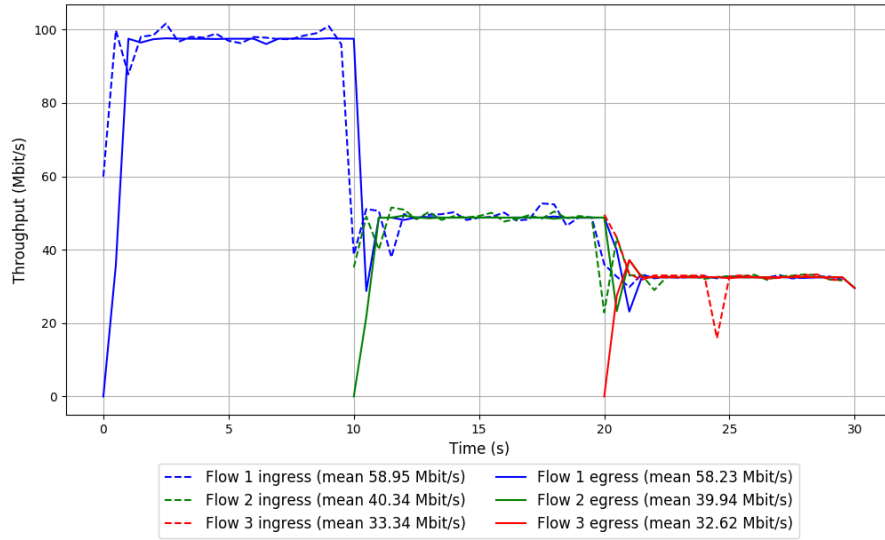


Run 5: Statistics of TCP BBR

Start at: 2019-09-19 00:42:17
End at: 2019-09-19 00:42:47
Local clock offset: 5.032 ms
Remote clock offset: -1.639 ms

```
# Below is generated by plot.py at 2019-09-19 01:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 175.873 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 58.23 Mbit/s
95th percentile per-packet one-way delay: 109.643 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 39.94 Mbit/s
95th percentile per-packet one-way delay: 125.695 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 32.62 Mbit/s
95th percentile per-packet one-way delay: 426.168 ms
Loss rate: 2.67%
```

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-09-18 22:52:30

End at: 2019-09-18 22:53:00

Local clock offset: 5.092 ms

Remote clock offset: 0.358 ms

Below is generated by plot.py at 2019-09-19 01:16:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.28 Mbit/s

95th percentile per-packet one-way delay: 35.355 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 51.41 Mbit/s

95th percentile per-packet one-way delay: 39.492 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 43.23 Mbit/s

95th percentile per-packet one-way delay: 33.524 ms

Loss rate: 0.21%

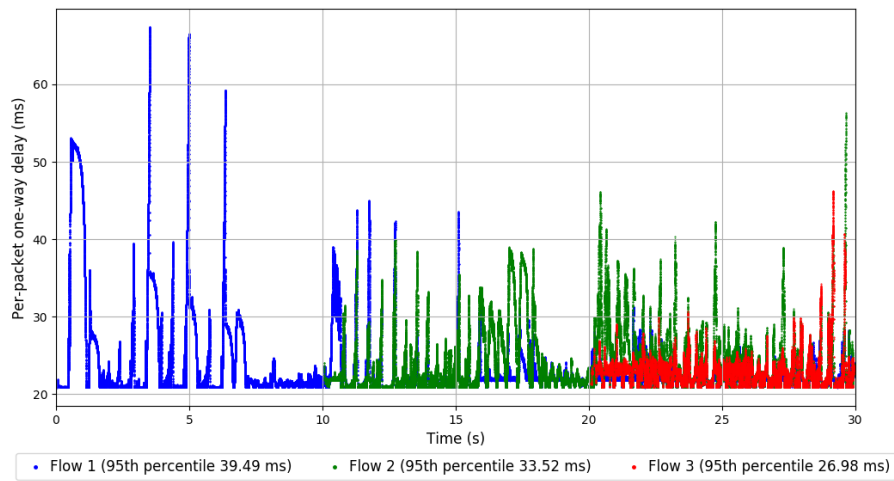
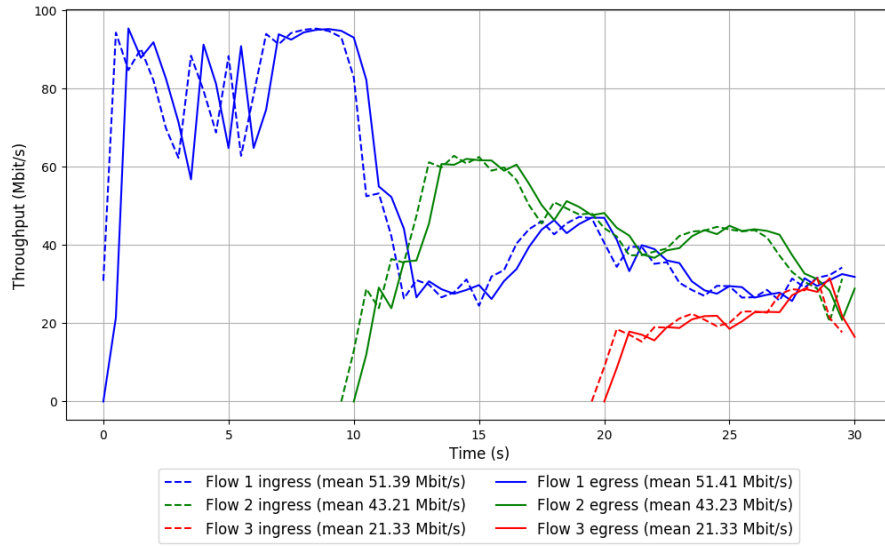
-- Flow 3:

Average throughput: 21.33 Mbit/s

95th percentile per-packet one-way delay: 26.976 ms

Loss rate: 0.53%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-09-18 23:22:43

End at: 2019-09-18 23:23:13

Local clock offset: 2.491 ms

Remote clock offset: 1.32 ms

Below is generated by plot.py at 2019-09-19 01:16:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.41 Mbit/s

95th percentile per-packet one-way delay: 30.826 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 47.41 Mbit/s

95th percentile per-packet one-way delay: 40.721 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 43.29 Mbit/s

95th percentile per-packet one-way delay: 24.545 ms

Loss rate: 0.21%

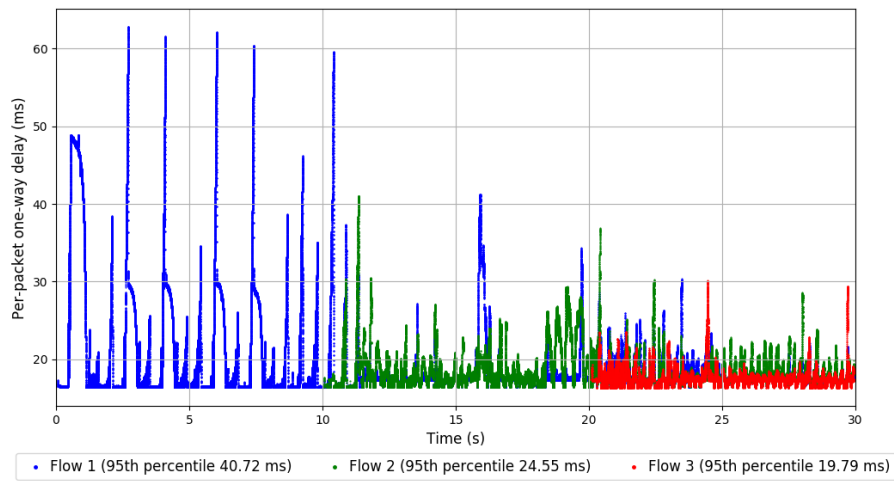
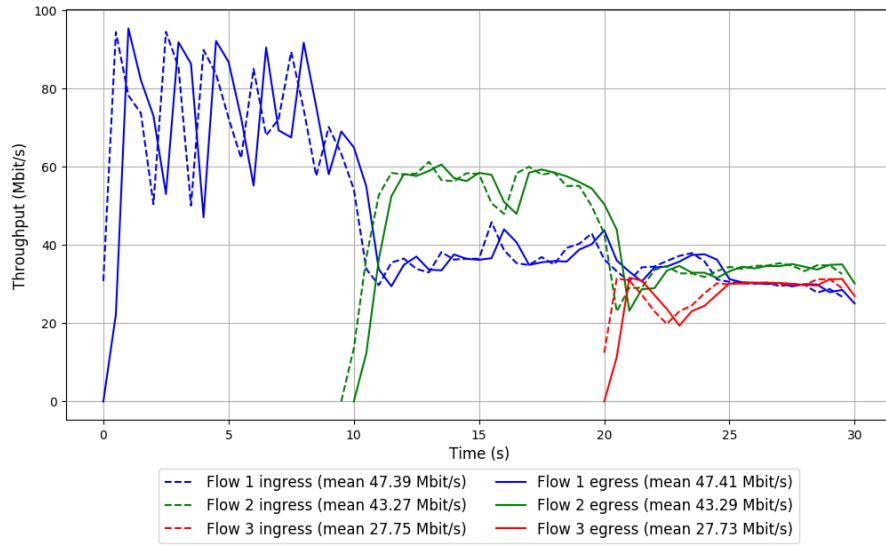
-- Flow 3:

Average throughput: 27.73 Mbit/s

95th percentile per-packet one-way delay: 19.789 ms

Loss rate: 0.58%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-09-18 23:52:33

End at: 2019-09-18 23:53:03

Local clock offset: 0.81 ms

Remote clock offset: 1.226 ms

Below is generated by plot.py at 2019-09-19 01:16:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.02 Mbit/s

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

Loss rate: 0.18%

-- Flow 1:

Average throughput: 50.92 Mbit/s

95th percentile per-packet one-way delay: 38.733 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 33.82 Mbit/s

95th percentile per-packet one-way delay: 26.445 ms

Loss rate: 0.25%

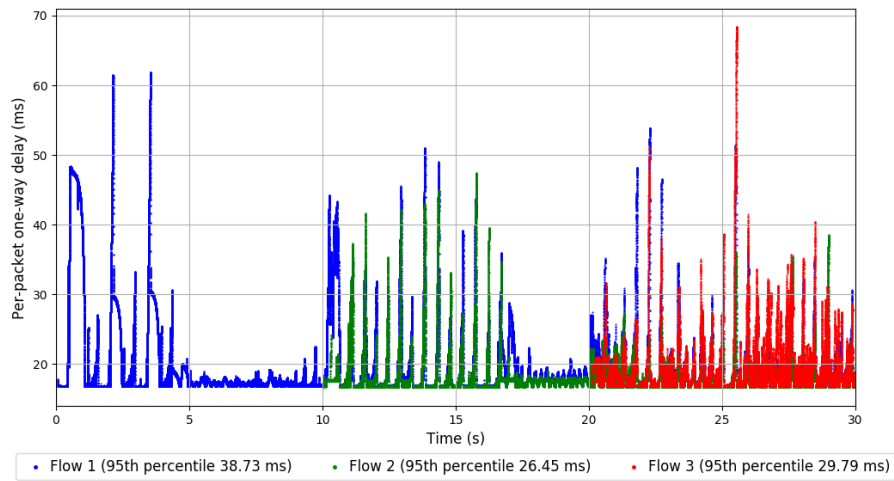
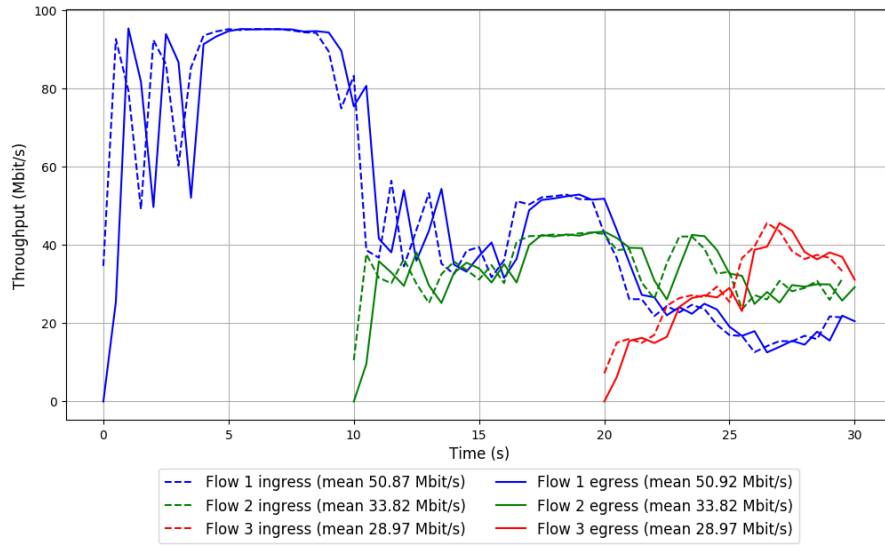
-- Flow 3:

Average throughput: 28.97 Mbit/s

95th percentile per-packet one-way delay: 29.790 ms

Loss rate: 0.58%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-09-19 00:22:25
End at: 2019-09-19 00:22:55
Local clock offset: 1.712 ms
Remote clock offset: -0.417 ms

Below is generated by plot.py at 2019-09-19 01:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.83 Mbit/s
95th percentile per-packet one-way delay: 40.973 ms
Loss rate: 0.19%

-- Flow 1:

Average throughput: 46.95 Mbit/s
95th percentile per-packet one-way delay: 50.201 ms
Loss rate: 0.08%

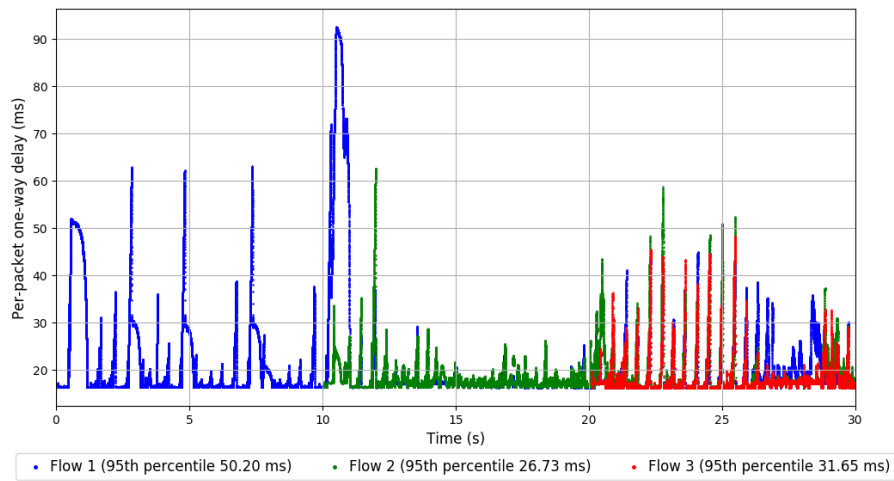
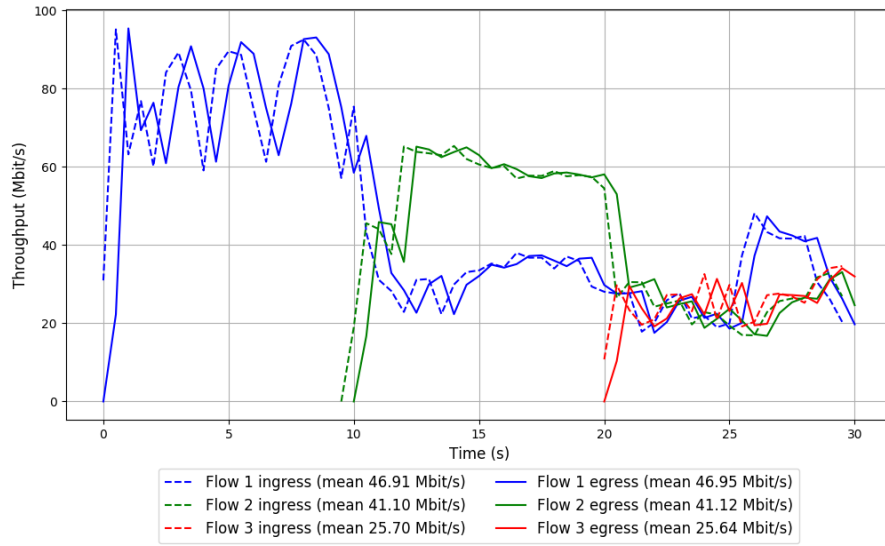
-- Flow 2:

Average throughput: 41.12 Mbit/s
95th percentile per-packet one-way delay: 26.725 ms
Loss rate: 0.21%

-- Flow 3:

Average throughput: 25.64 Mbit/s
95th percentile per-packet one-way delay: 31.647 ms
Loss rate: 0.77%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-09-19 00:52:21
End at: 2019-09-19 00:52:51
Local clock offset: 3.833 ms
Remote clock offset: -0.863 ms

Below is generated by plot.py at 2019-09-19 01:17:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.43 Mbit/s
95th percentile per-packet one-way delay: 46.202 ms
Loss rate: 0.21%

-- Flow 1:

Average throughput: 51.30 Mbit/s
95th percentile per-packet one-way delay: 45.107 ms
Loss rate: 0.11%

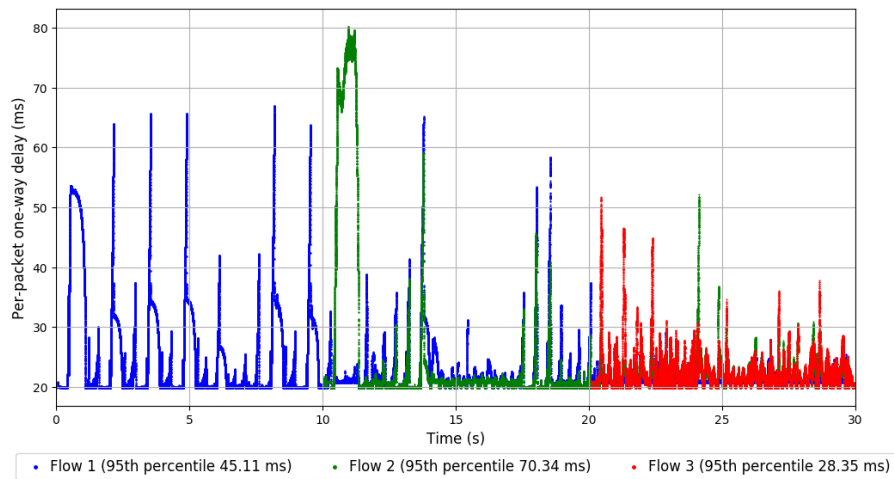
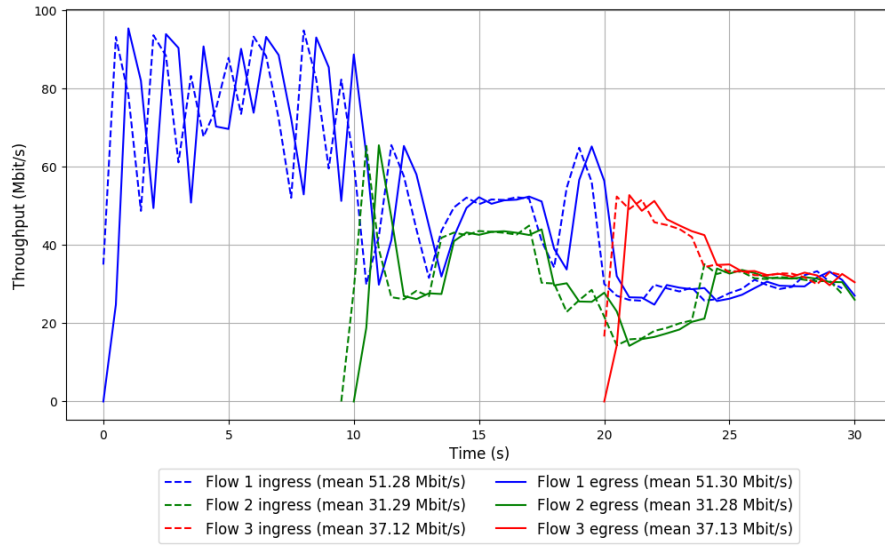
-- Flow 2:

Average throughput: 31.28 Mbit/s
95th percentile per-packet one-way delay: 70.341 ms
Loss rate: 0.27%

-- Flow 3:

Average throughput: 37.13 Mbit/s
95th percentile per-packet one-way delay: 28.348 ms
Loss rate: 0.48%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-09-18 22:47:27

End at: 2019-09-18 22:47:57

Local clock offset: 0.629 ms

Remote clock offset: 0.657 ms

Below is generated by plot.py at 2019-09-19 01:17:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.90 Mbit/s

95th percentile per-packet one-way delay: 25.206 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 56.78 Mbit/s

95th percentile per-packet one-way delay: 26.168 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 38.55 Mbit/s

95th percentile per-packet one-way delay: 24.118 ms

Loss rate: 0.22%

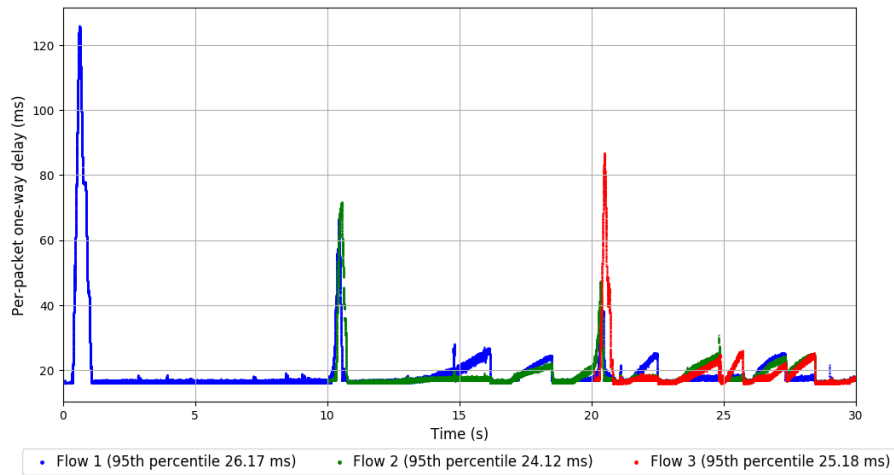
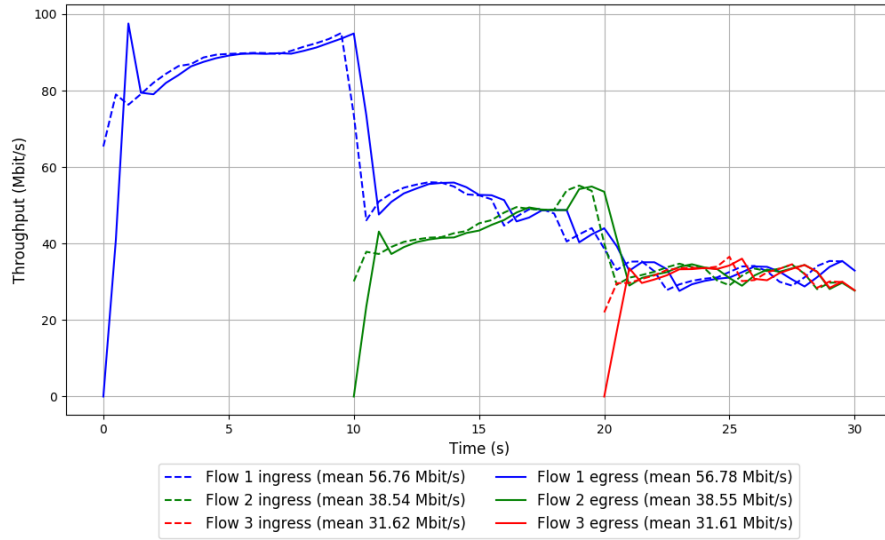
-- Flow 3:

Average throughput: 31.61 Mbit/s

95th percentile per-packet one-way delay: 25.181 ms

Loss rate: 0.53%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-09-18 23:17:45

End at: 2019-09-18 23:18:15

Local clock offset: 6.245 ms

Remote clock offset: 1.727 ms

Below is generated by plot.py at 2019-09-19 01:17:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.37 Mbit/s

95th percentile per-packet one-way delay: 28.278 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 54.80 Mbit/s

95th percentile per-packet one-way delay: 28.204 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 37.52 Mbit/s

95th percentile per-packet one-way delay: 27.760 ms

Loss rate: 0.20%

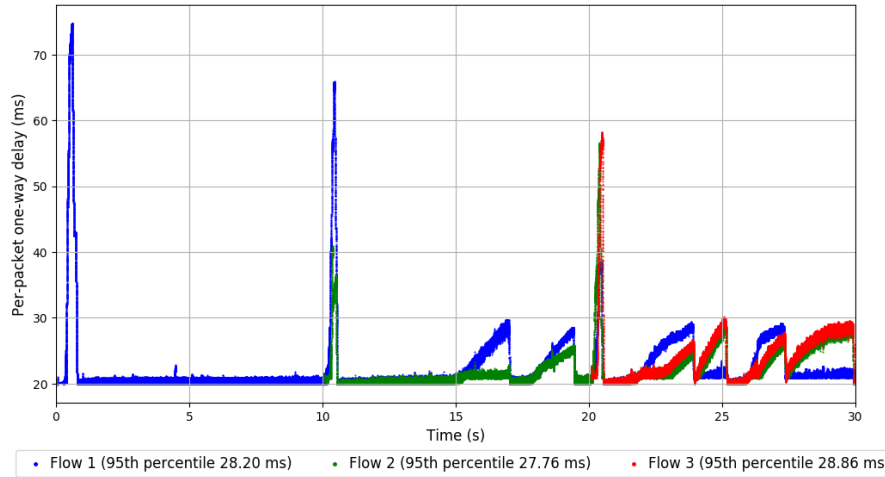
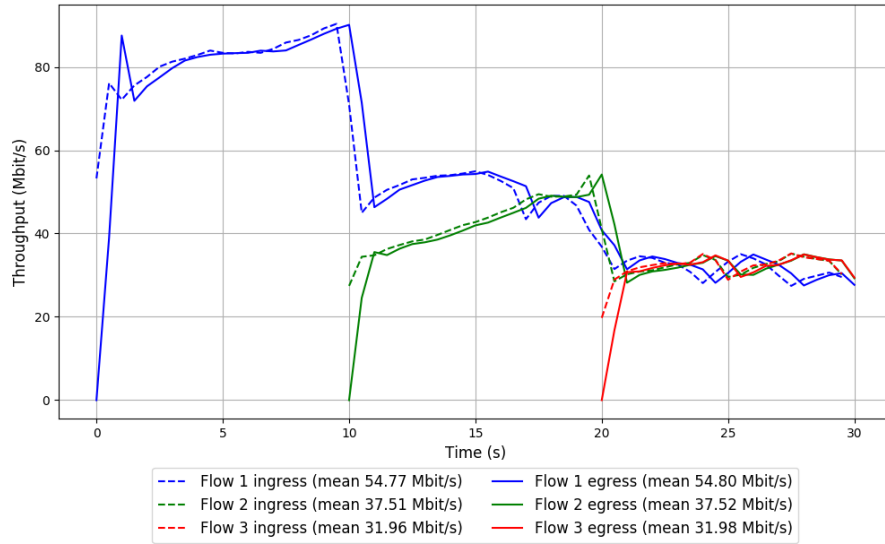
-- Flow 3:

Average throughput: 31.98 Mbit/s

95th percentile per-packet one-way delay: 28.856 ms

Loss rate: 0.44%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-09-18 23:47:41

End at: 2019-09-18 23:48:11

Local clock offset: 0.874 ms

Remote clock offset: 1.301 ms

Below is generated by plot.py at 2019-09-19 01:17:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.53 Mbit/s

95th percentile per-packet one-way delay: 24.378 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 51.44 Mbit/s

95th percentile per-packet one-way delay: 24.153 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 46.77 Mbit/s

95th percentile per-packet one-way delay: 24.226 ms

Loss rate: 0.29%

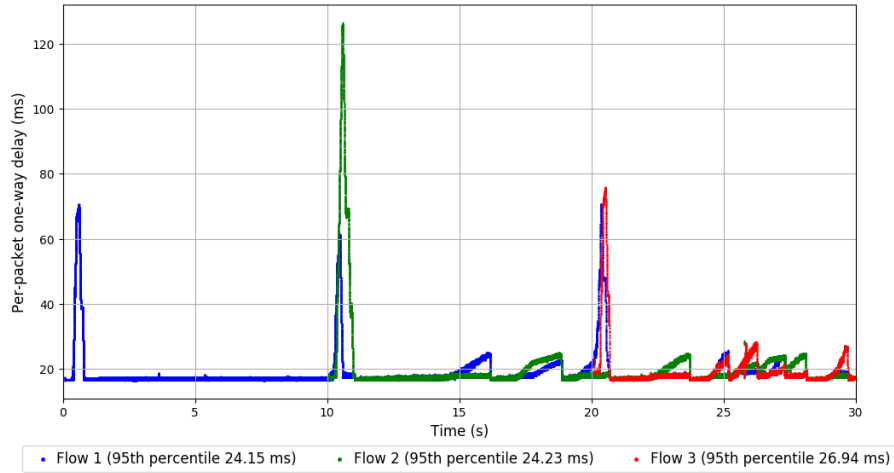
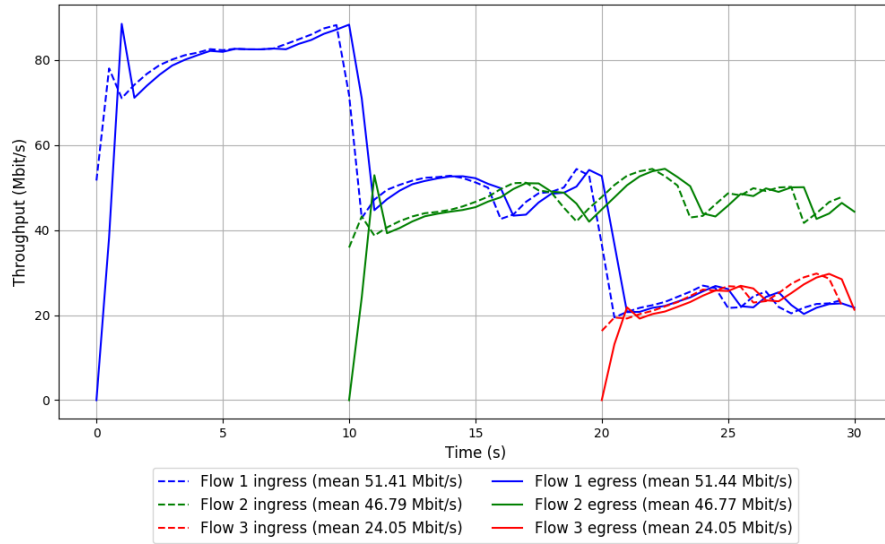
-- Flow 3:

Average throughput: 24.05 Mbit/s

95th percentile per-packet one-way delay: 26.942 ms

Loss rate: 0.51%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-09-19 00:17:27

End at: 2019-09-19 00:17:57

Local clock offset: 2.642 ms

Remote clock offset: 0.495 ms

Below is generated by plot.py at 2019-09-19 01:17:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.57 Mbit/s

95th percentile per-packet one-way delay: 25.352 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 47.74 Mbit/s

95th percentile per-packet one-way delay: 32.015 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 34.54 Mbit/s

95th percentile per-packet one-way delay: 23.706 ms

Loss rate: 0.42%

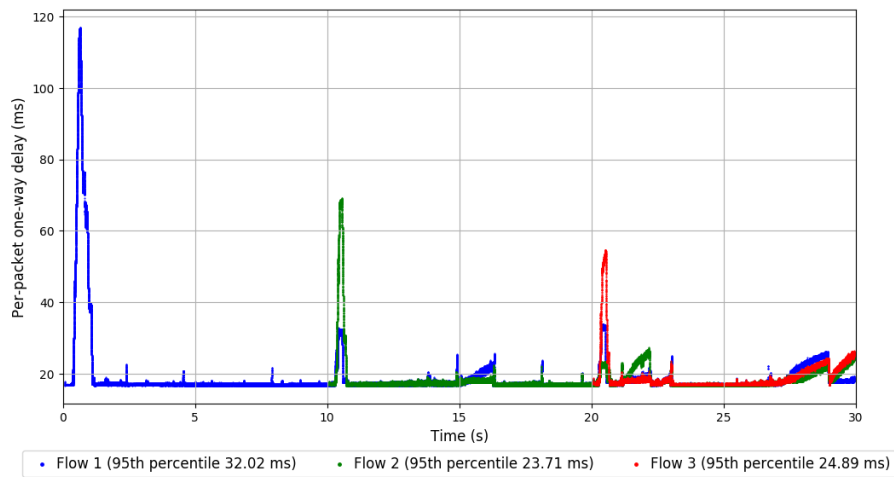
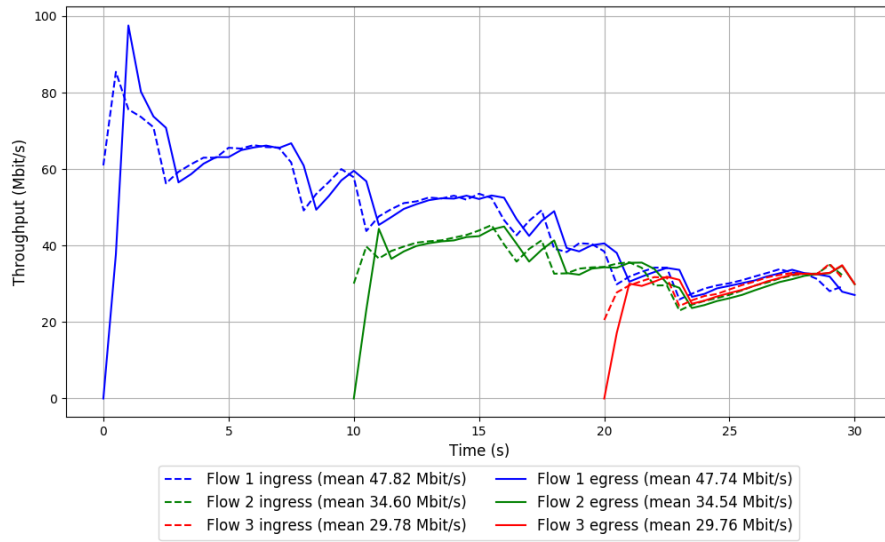
-- Flow 3:

Average throughput: 29.76 Mbit/s

95th percentile per-packet one-way delay: 24.888 ms

Loss rate: 0.59%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-09-19 00:47:08
End at: 2019-09-19 00:47:38
Local clock offset: 5.044 ms
Remote clock offset: -1.329 ms

Below is generated by plot.py at 2019-09-19 01:17:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.26 Mbit/s
95th percentile per-packet one-way delay: 29.729 ms
Loss rate: 0.21%

-- Flow 1:

Average throughput: 54.16 Mbit/s
95th percentile per-packet one-way delay: 29.628 ms
Loss rate: 0.11%

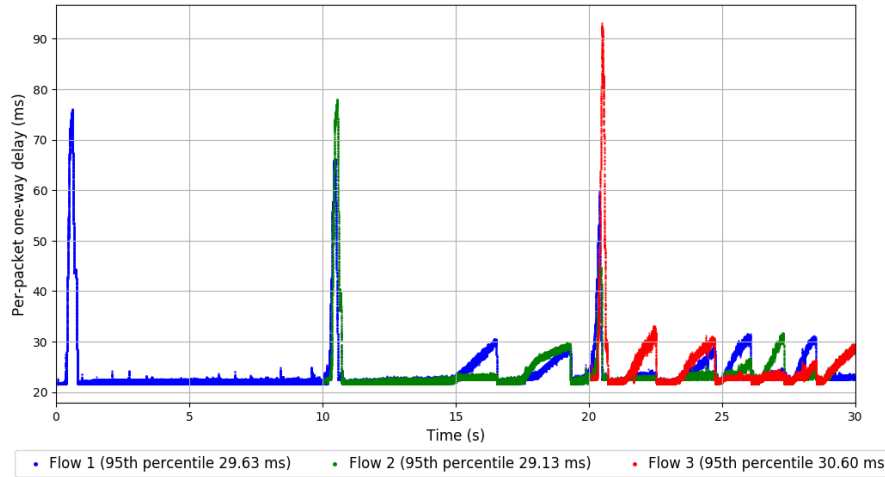
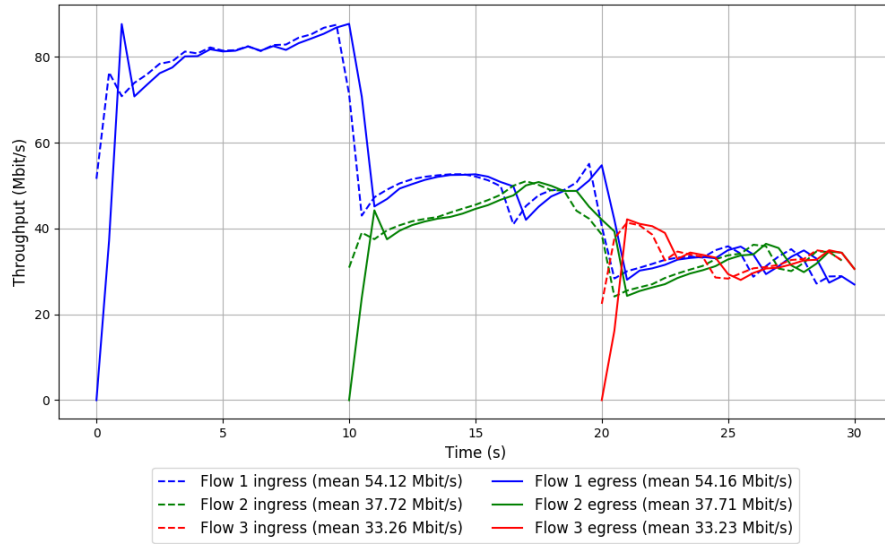
-- Flow 2:

Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 29.132 ms
Loss rate: 0.27%

-- Flow 3:

Average throughput: 33.23 Mbit/s
95th percentile per-packet one-way delay: 30.596 ms
Loss rate: 0.60%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-09-18 23:02:44

End at: 2019-09-18 23:03:14

Local clock offset: 5.503 ms

Remote clock offset: 0.757 ms

Below is generated by plot.py at 2019-09-19 01:17:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.81 Mbit/s

95th percentile per-packet one-way delay: 77.822 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 57.02 Mbit/s

95th percentile per-packet one-way delay: 75.821 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 41.09 Mbit/s

95th percentile per-packet one-way delay: 82.060 ms

Loss rate: 1.56%

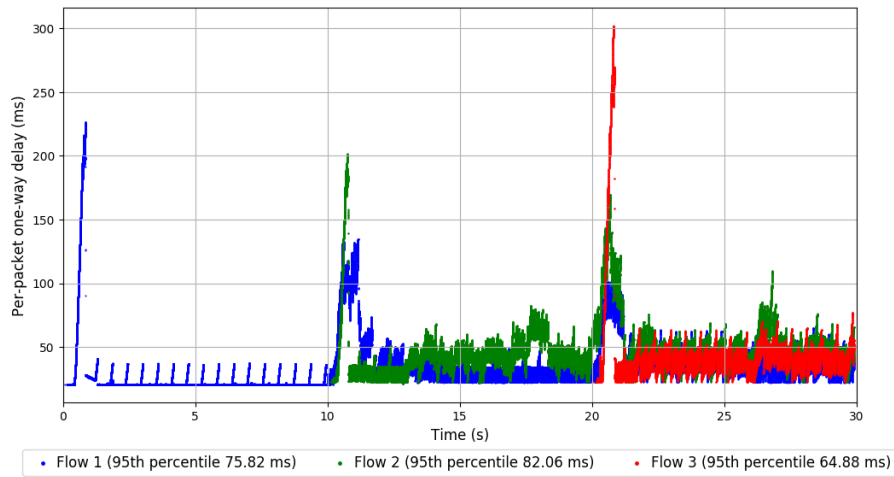
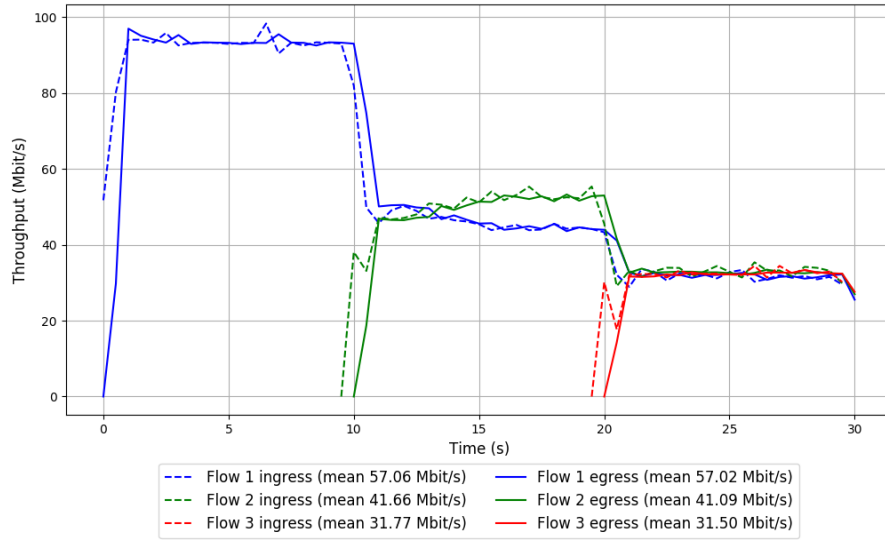
-- Flow 3:

Average throughput: 31.50 Mbit/s

95th percentile per-packet one-way delay: 64.880 ms

Loss rate: 1.35%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-09-18 23:32:59

End at: 2019-09-18 23:33:29

Local clock offset: 6.976 ms

Remote clock offset: 0.66 ms

Below is generated by plot.py at 2019-09-19 01:18:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 83.744 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 57.17 Mbit/s

95th percentile per-packet one-way delay: 78.809 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 41.73 Mbit/s

95th percentile per-packet one-way delay: 97.435 ms

Loss rate: 1.67%

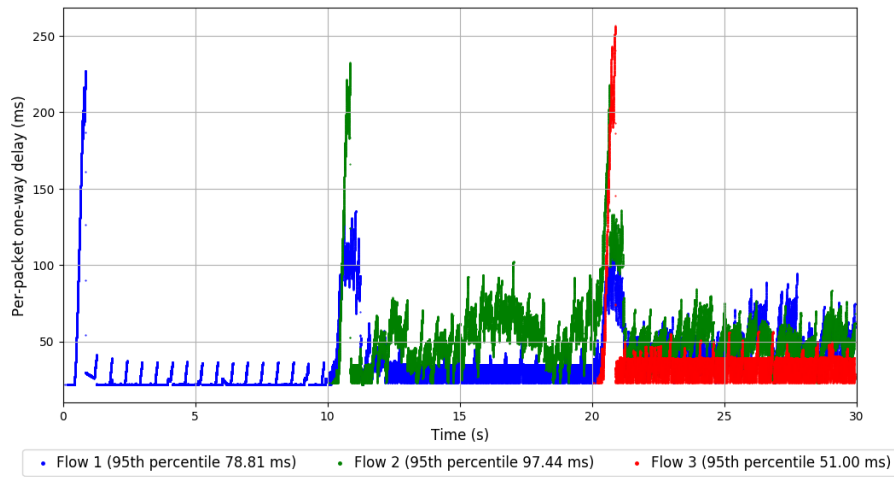
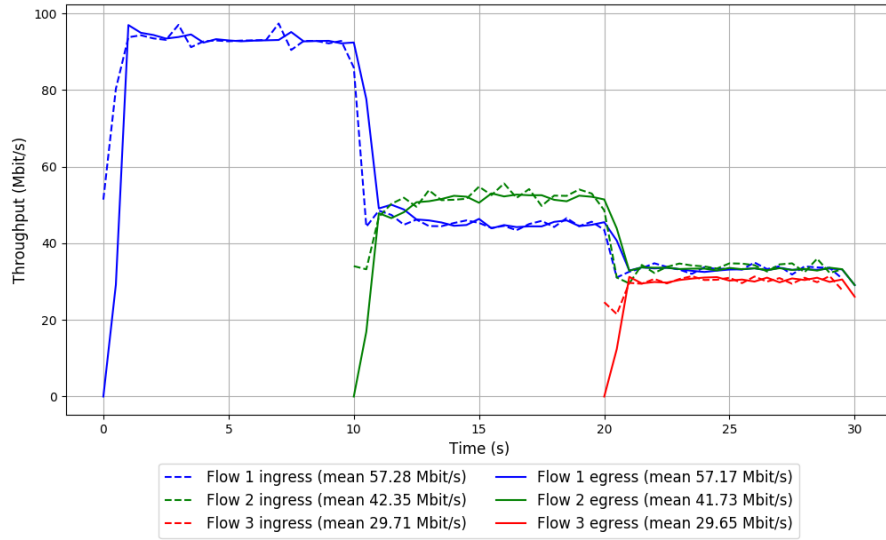
-- Flow 3:

Average throughput: 29.65 Mbit/s

95th percentile per-packet one-way delay: 51.002 ms

Loss rate: 0.72%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-09-19 00:02:35

End at: 2019-09-19 00:03:05

Local clock offset: 1.009 ms

Remote clock offset: 0.22 ms

Below is generated by plot.py at 2019-09-19 01:18:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.80 Mbit/s

95th percentile per-packet one-way delay: 85.183 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 54.60 Mbit/s

95th percentile per-packet one-way delay: 79.222 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 37.65 Mbit/s

95th percentile per-packet one-way delay: 95.842 ms

Loss rate: 2.35%

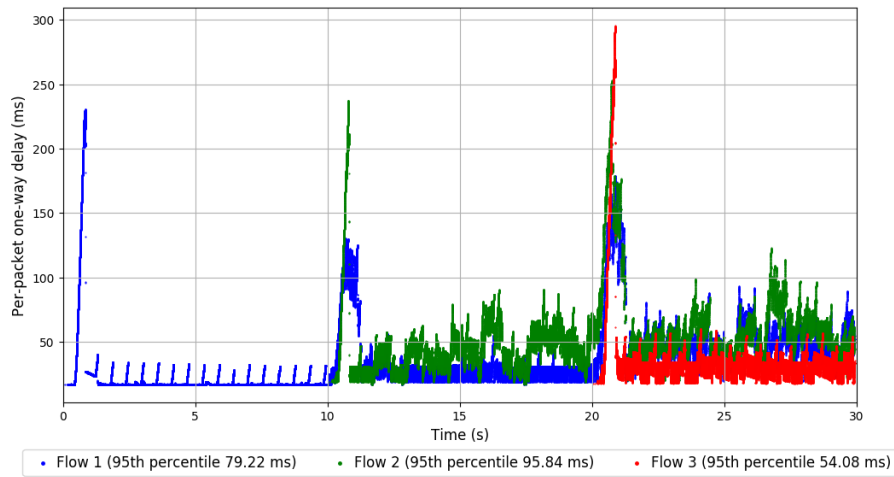
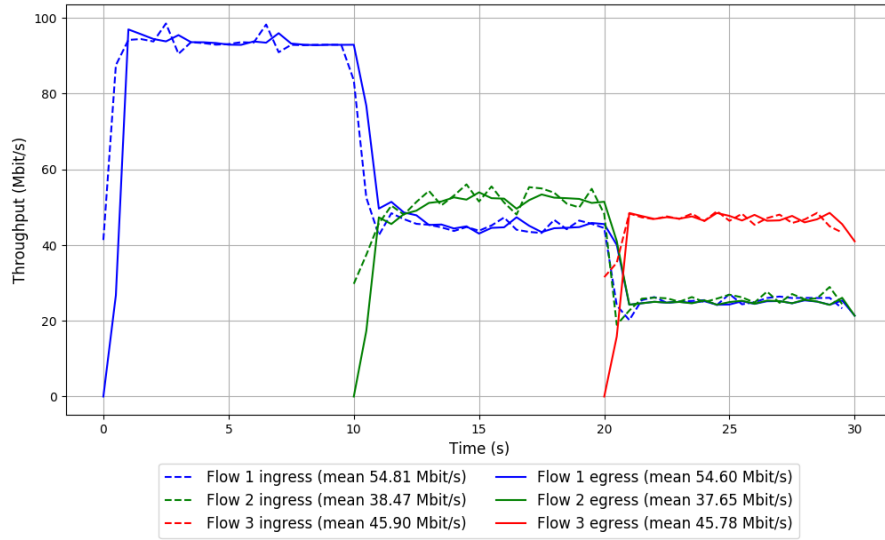
-- Flow 3:

Average throughput: 45.78 Mbit/s

95th percentile per-packet one-way delay: 54.081 ms

Loss rate: 0.63%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-09-19 00:32:21

End at: 2019-09-19 00:32:51

Local clock offset: 2.425 ms

Remote clock offset: -1.04 ms

Below is generated by plot.py at 2019-09-19 01:18:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 87.995 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 53.99 Mbit/s

95th percentile per-packet one-way delay: 76.079 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 38.32 Mbit/s

95th percentile per-packet one-way delay: 95.602 ms

Loss rate: 3.53%

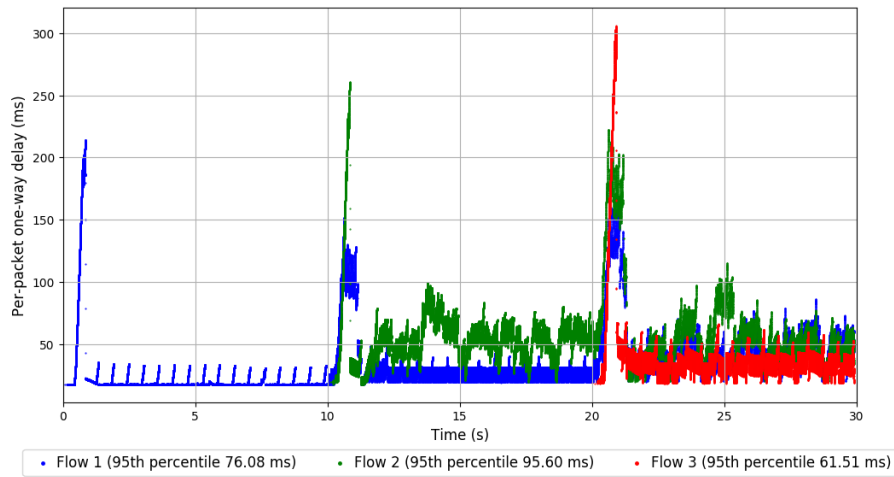
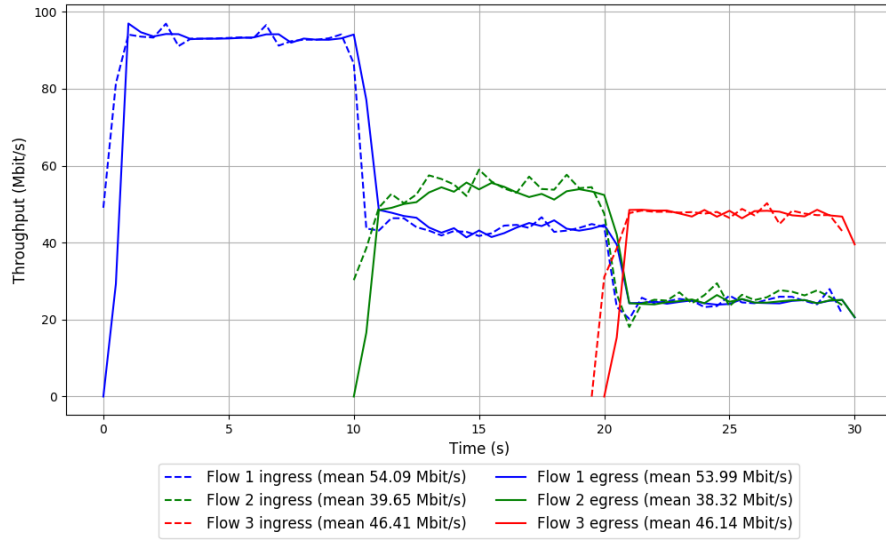
-- Flow 3:

Average throughput: 46.14 Mbit/s

95th percentile per-packet one-way delay: 61.505 ms

Loss rate: 1.06%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-09-19 01:02:34
End at: 2019-09-19 01:03:04
Local clock offset: 0.682 ms
Remote clock offset: -1.586 ms

Below is generated by plot.py at 2019-09-19 01:18:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.80 Mbit/s
95th percentile per-packet one-way delay: 81.669 ms
Loss rate: 1.60%

-- Flow 1:

Average throughput: 61.67 Mbit/s
95th percentile per-packet one-way delay: 46.614 ms
Loss rate: 0.18%

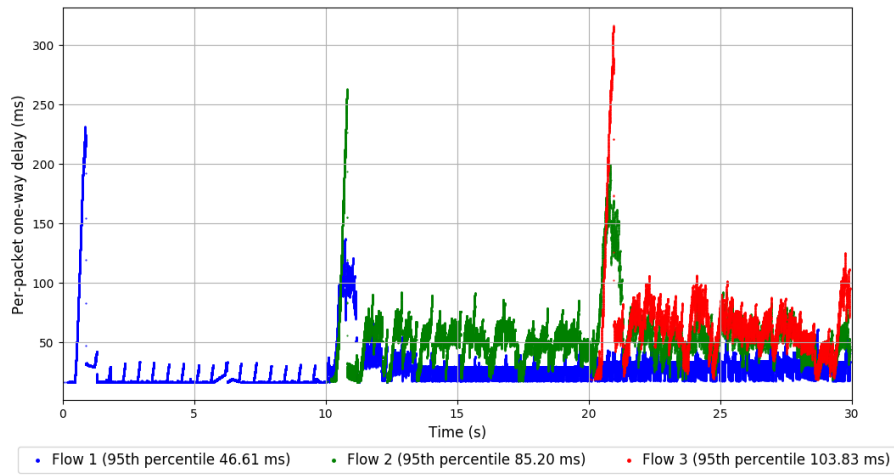
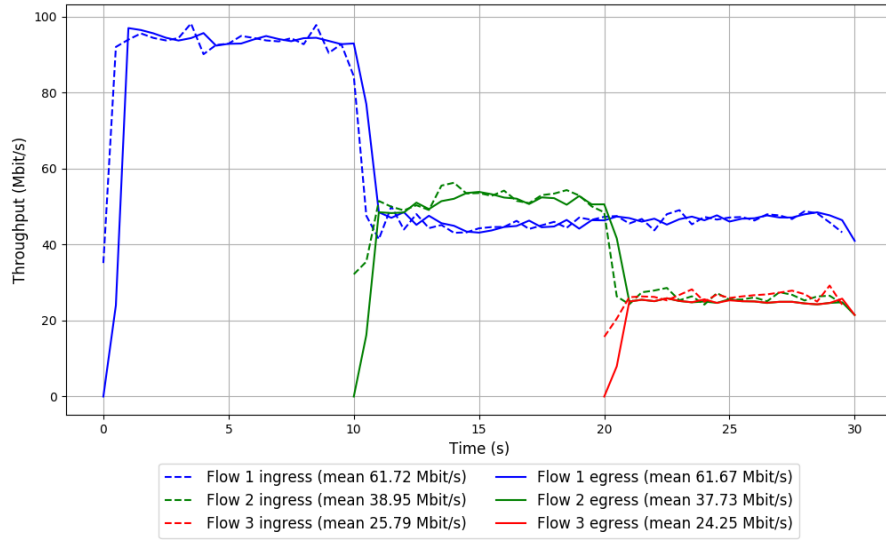
-- Flow 2:

Average throughput: 37.73 Mbit/s
95th percentile per-packet one-way delay: 85.199 ms
Loss rate: 3.34%

-- Flow 3:

Average throughput: 24.25 Mbit/s
95th percentile per-packet one-way delay: 103.835 ms
Loss rate: 6.48%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-09-18 22:43:57
End at: 2019-09-18 22:44:27
Local clock offset: 0.575 ms
Remote clock offset: -0.546 ms

Below is generated by plot.py at 2019-09-19 01:18:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 59.037 ms
Loss rate: 0.32%

-- Flow 1:

Average throughput: 61.82 Mbit/s
95th percentile per-packet one-way delay: 48.416 ms
Loss rate: 0.20%

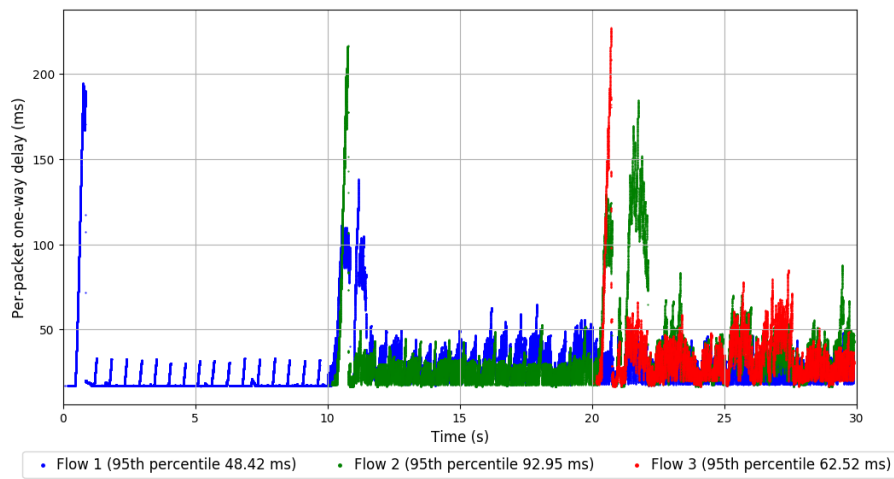
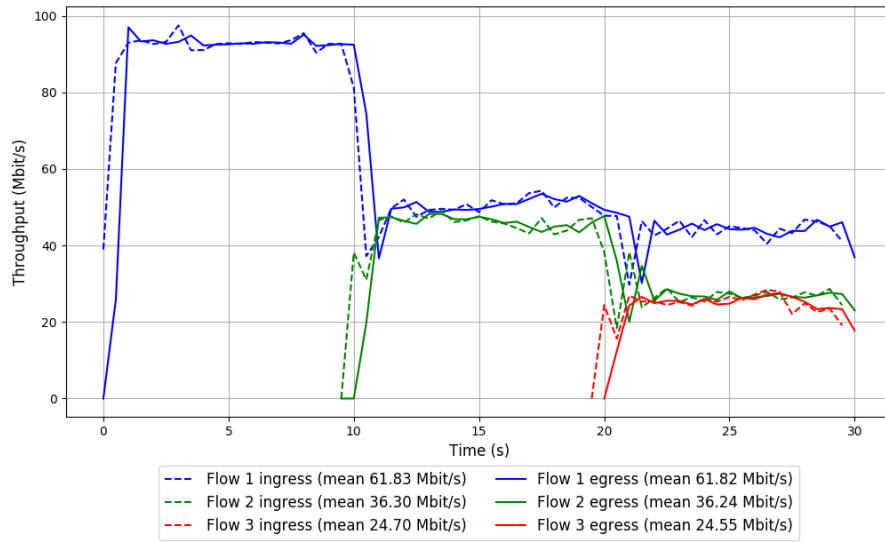
-- Flow 2:

Average throughput: 36.24 Mbit/s
95th percentile per-packet one-way delay: 92.950 ms
Loss rate: 0.39%

-- Flow 3:

Average throughput: 24.55 Mbit/s
95th percentile per-packet one-way delay: 62.523 ms
Loss rate: 1.02%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-09-18 23:14:12

End at: 2019-09-18 23:14:42

Local clock offset: 2.553 ms

Remote clock offset: 1.817 ms

Below is generated by plot.py at 2019-09-19 01:18:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.75 Mbit/s

95th percentile per-packet one-way delay: 67.077 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 54.86 Mbit/s

95th percentile per-packet one-way delay: 78.071 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 44.02 Mbit/s

95th percentile per-packet one-way delay: 39.515 ms

Loss rate: 0.34%

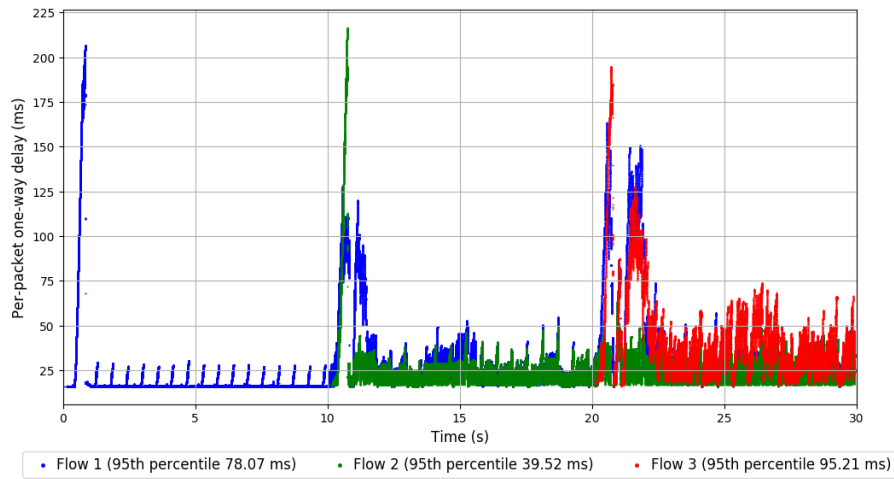
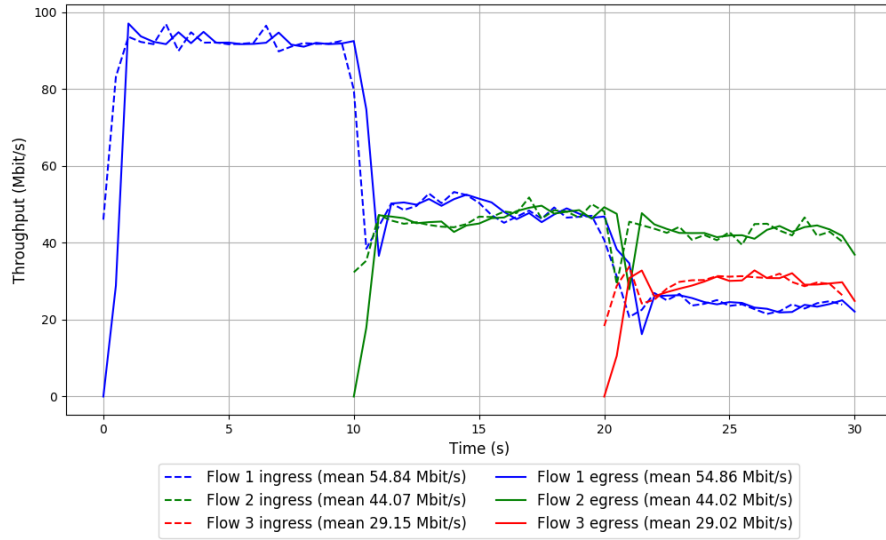
-- Flow 3:

Average throughput: 29.02 Mbit/s

95th percentile per-packet one-way delay: 95.206 ms

Loss rate: 0.99%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-09-18 23:44:07

End at: 2019-09-18 23:44:37

Local clock offset: 0.99 ms

Remote clock offset: 1.496 ms

Below is generated by plot.py at 2019-09-19 01:18:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 69.842 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 55.73 Mbit/s

95th percentile per-packet one-way delay: 75.945 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 44.34 Mbit/s

95th percentile per-packet one-way delay: 41.988 ms

Loss rate: 0.33%

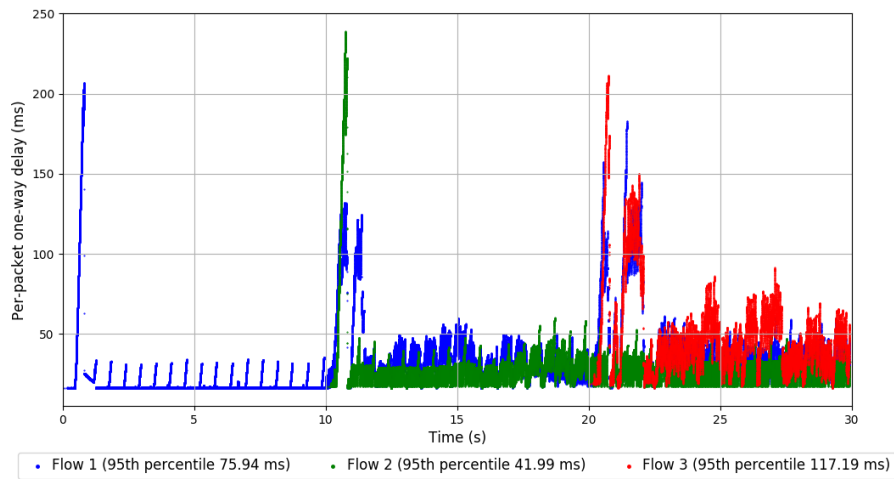
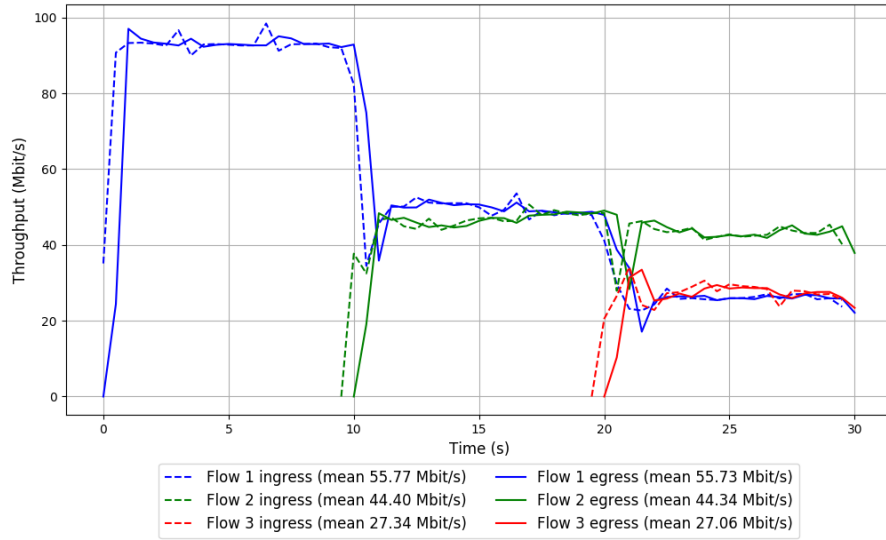
-- Flow 3:

Average throughput: 27.06 Mbit/s

95th percentile per-packet one-way delay: 117.195 ms

Loss rate: 1.55%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-09-19 00:13:47

End at: 2019-09-19 00:14:17

Local clock offset: 2.229 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2019-09-19 01:19:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.16 Mbit/s

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

Loss rate: 0.33%

-- Flow 1:

Average throughput: 57.81 Mbit/s

95th percentile per-packet one-way delay: 67.422 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 53.231 ms

Loss rate: 0.38%

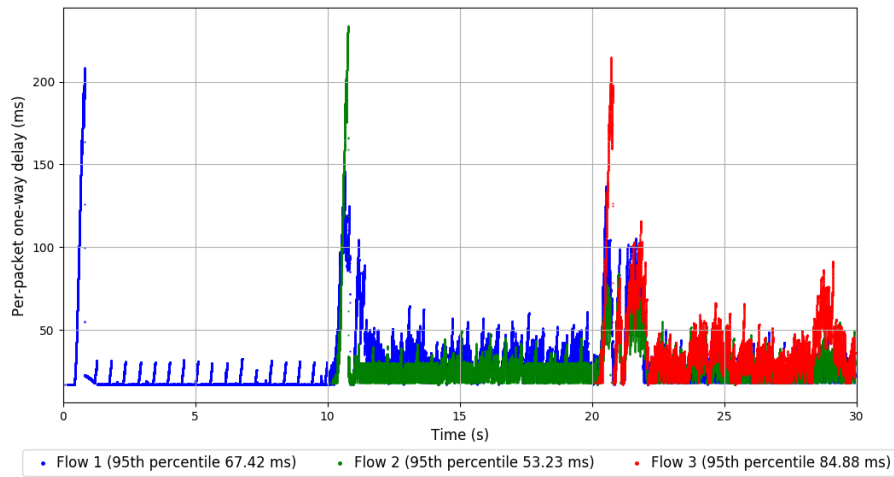
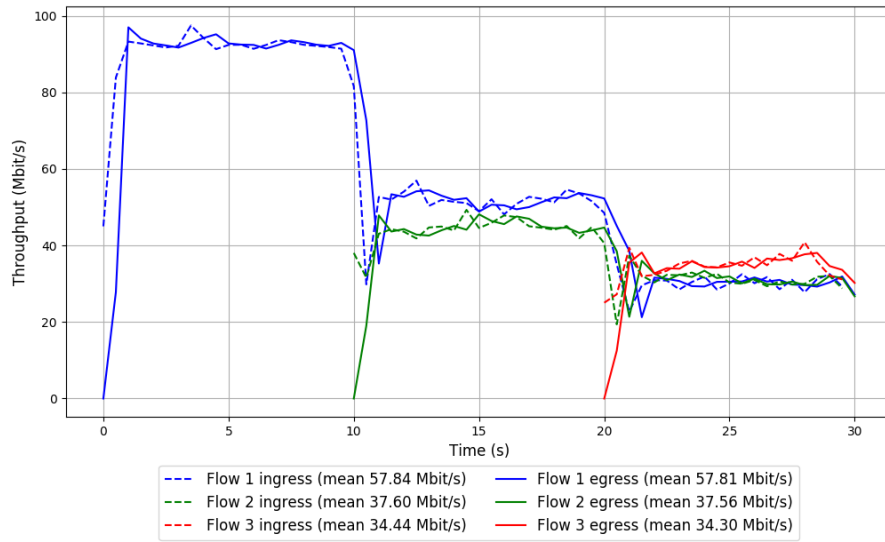
-- Flow 3:

Average throughput: 34.30 Mbit/s

95th percentile per-packet one-way delay: 84.880 ms

Loss rate: 0.82%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-09-19 00:43:34
End at: 2019-09-19 00:44:04
Local clock offset: 5.765 ms
Remote clock offset: -1.559 ms

Below is generated by plot.py at 2019-09-19 01:19:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.00 Mbit/s
95th percentile per-packet one-way delay: 77.277 ms
Loss rate: 0.36%

-- Flow 1:

Average throughput: 56.04 Mbit/s
95th percentile per-packet one-way delay: 91.372 ms
Loss rate: 0.16%

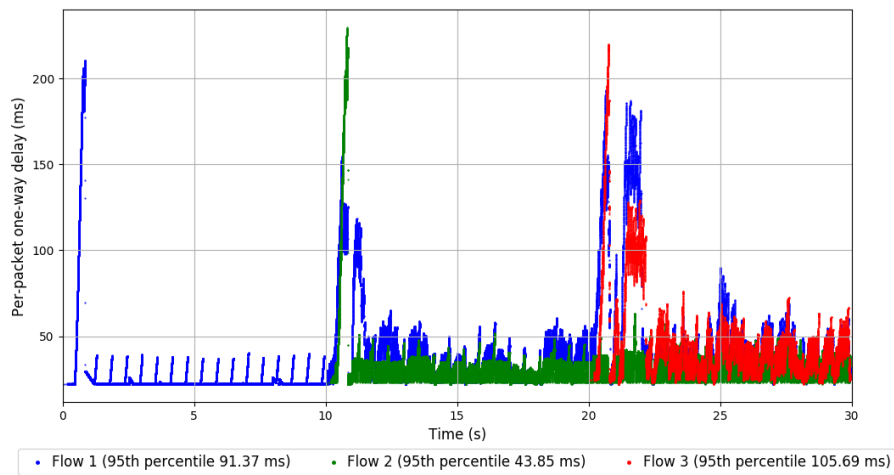
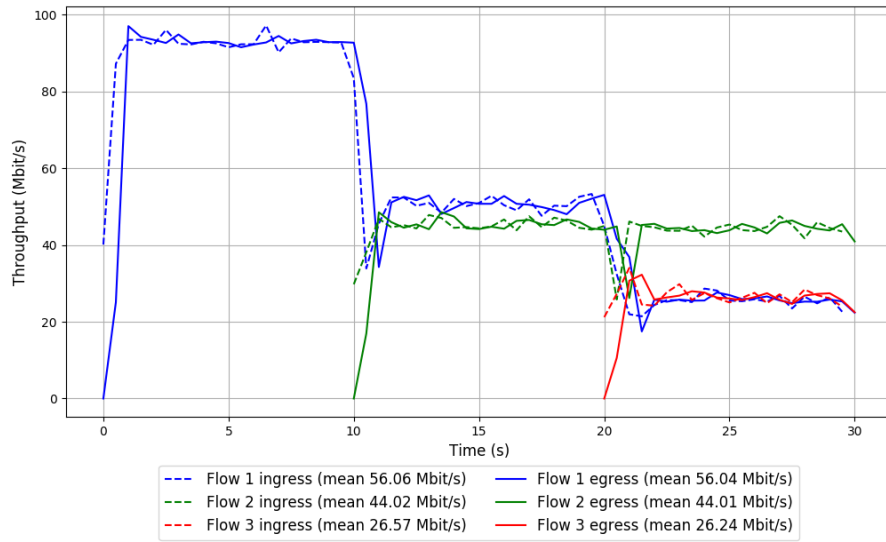
-- Flow 2:

Average throughput: 44.01 Mbit/s
95th percentile per-packet one-way delay: 43.855 ms
Loss rate: 0.31%

-- Flow 3:

Average throughput: 26.24 Mbit/s
95th percentile per-packet one-way delay: 105.685 ms
Loss rate: 1.78%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-09-18 23:07:53

End at: 2019-09-18 23:08:23

Local clock offset: 1.95 ms

Remote clock offset: 1.603 ms

Below is generated by plot.py at 2019-09-19 01:19:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 24.731 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 58.87 Mbit/s

95th percentile per-packet one-way delay: 25.842 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 40.26 Mbit/s

95th percentile per-packet one-way delay: 24.521 ms

Loss rate: 0.23%

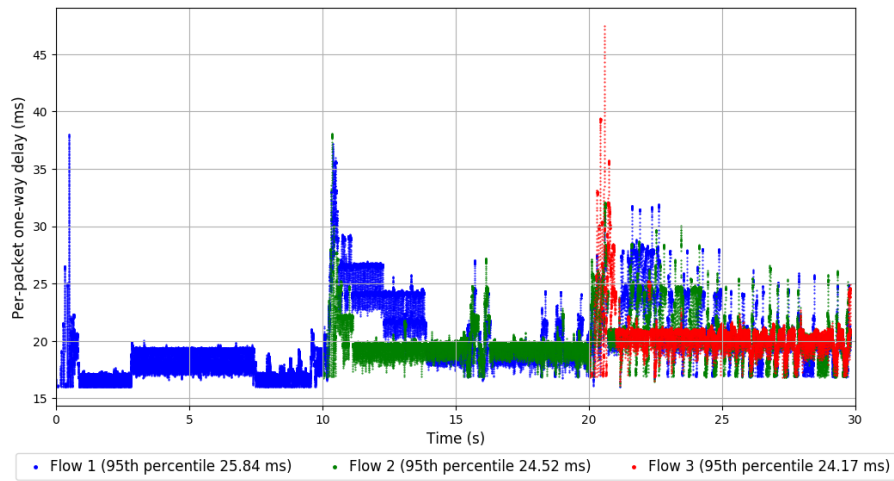
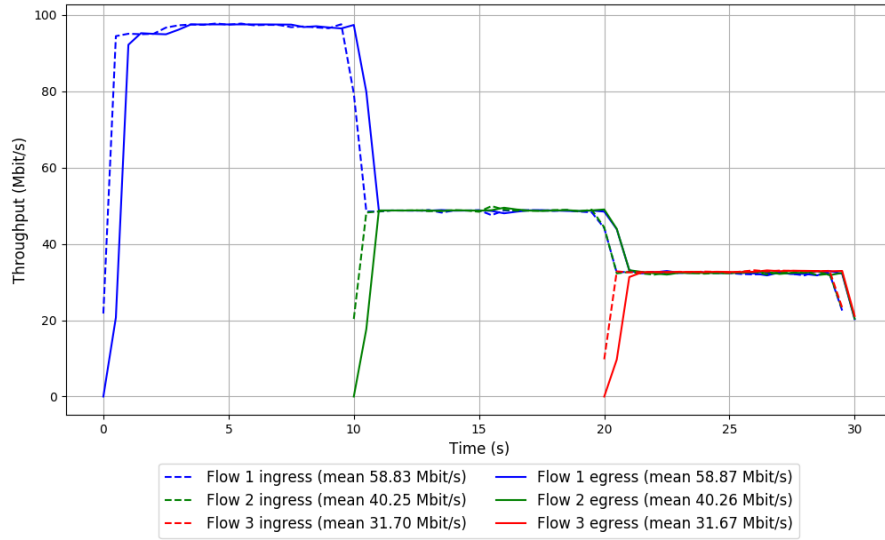
-- Flow 3:

Average throughput: 31.67 Mbit/s

95th percentile per-packet one-way delay: 24.170 ms

Loss rate: 0.60%

Run 1: Report of Indigo — Data Link

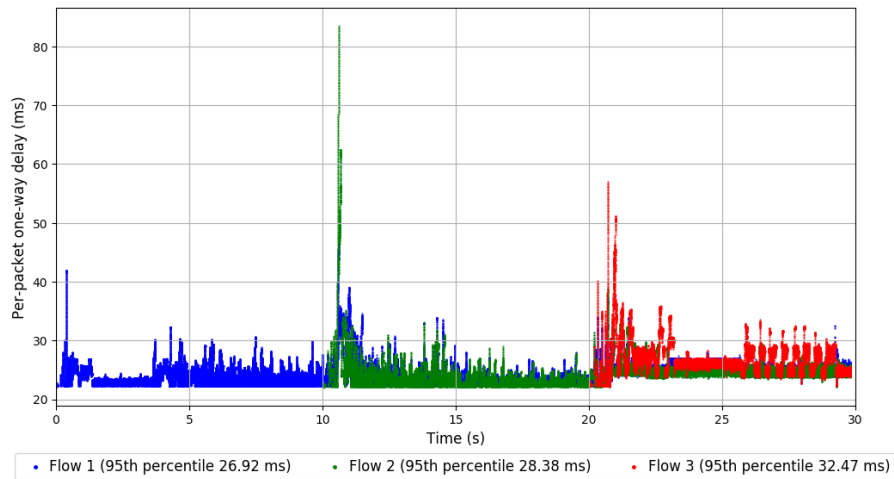
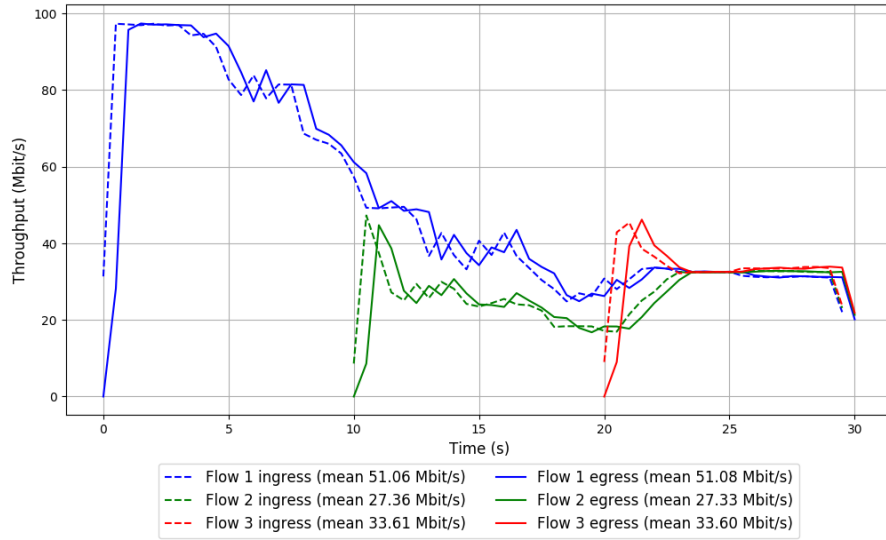


Run 2: Statistics of Indigo

Start at: 2019-09-18 23:38:07
End at: 2019-09-18 23:38:37
Local clock offset: 5.707 ms
Remote clock offset: -0.202 ms

```
# Below is generated by plot.py at 2019-09-19 01:19:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.25 Mbit/s
95th percentile per-packet one-way delay: 28.748 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 51.08 Mbit/s
95th percentile per-packet one-way delay: 26.921 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 27.33 Mbit/s
95th percentile per-packet one-way delay: 28.384 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 33.60 Mbit/s
95th percentile per-packet one-way delay: 32.472 ms
Loss rate: 0.56%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-09-19 00:07:36

End at: 2019-09-19 00:08:06

Local clock offset: 5.115 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2019-09-19 01:19:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 28.715 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 64.31 Mbit/s

95th percentile per-packet one-way delay: 28.433 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 33.493 ms

Loss rate: 0.28%

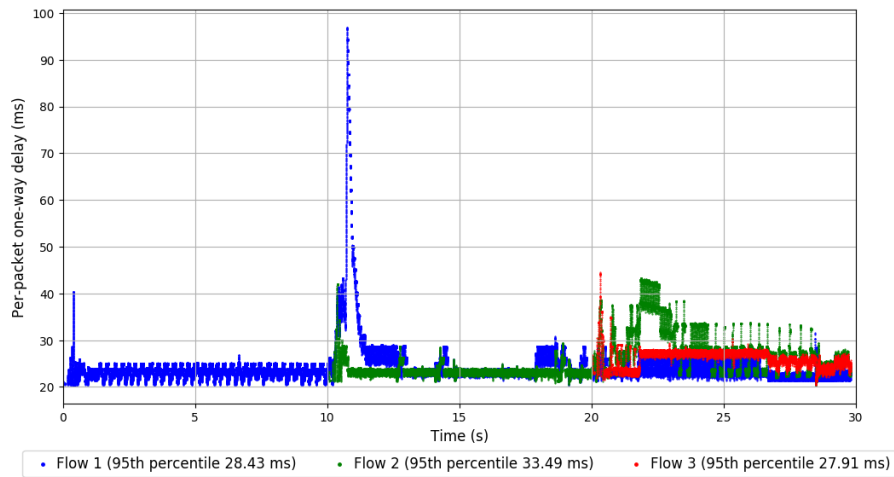
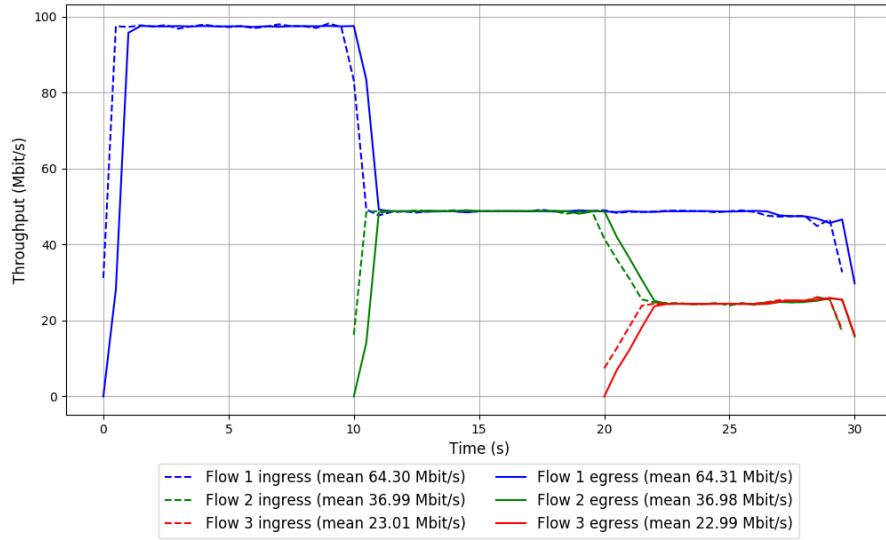
-- Flow 3:

Average throughput: 22.99 Mbit/s

95th percentile per-packet one-way delay: 27.914 ms

Loss rate: 0.62%

Run 3: Report of Indigo — Data Link

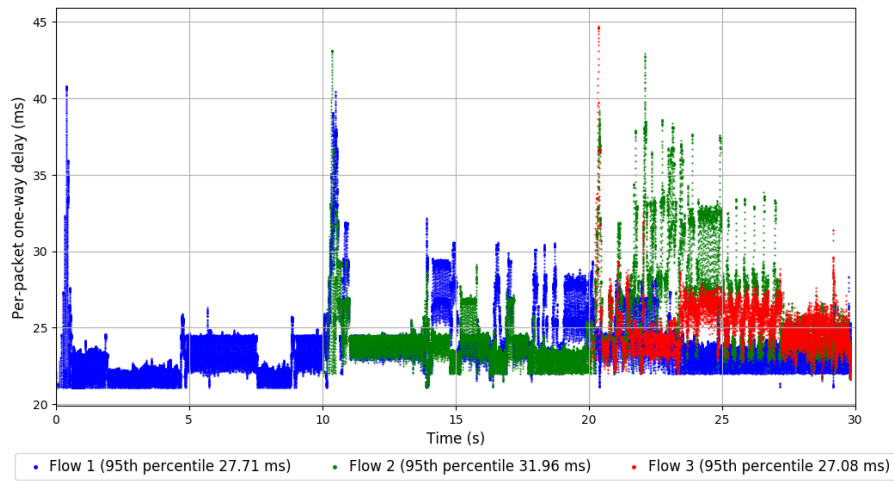
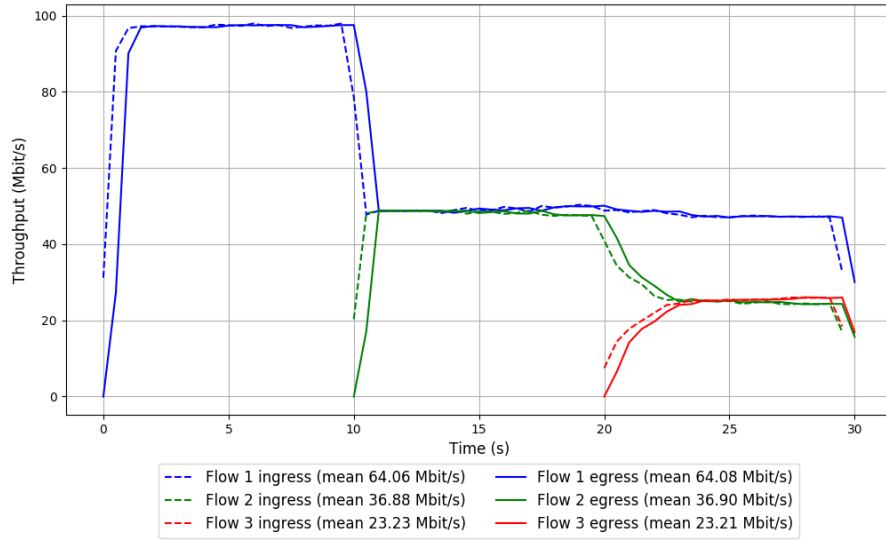


Run 4: Statistics of Indigo

Start at: 2019-09-19 00:37:27
End at: 2019-09-19 00:37:57
Local clock offset: 5.62 ms
Remote clock offset: -0.734 ms

```
# Below is generated by plot.py at 2019-09-19 01:19:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.19 Mbit/s
95th percentile per-packet one-way delay: 28.292 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 64.08 Mbit/s
95th percentile per-packet one-way delay: 27.706 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 36.90 Mbit/s
95th percentile per-packet one-way delay: 31.965 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 23.21 Mbit/s
95th percentile per-packet one-way delay: 27.079 ms
Loss rate: 0.61%
```

Run 4: Report of Indigo — Data Link

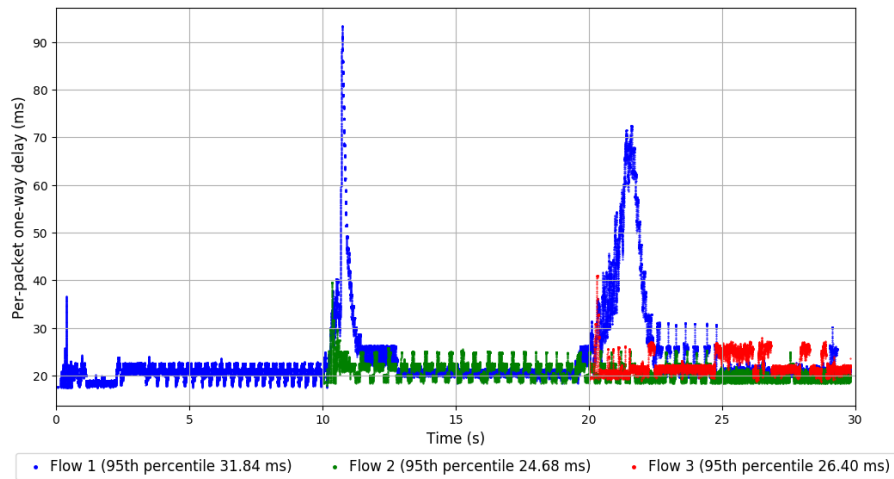
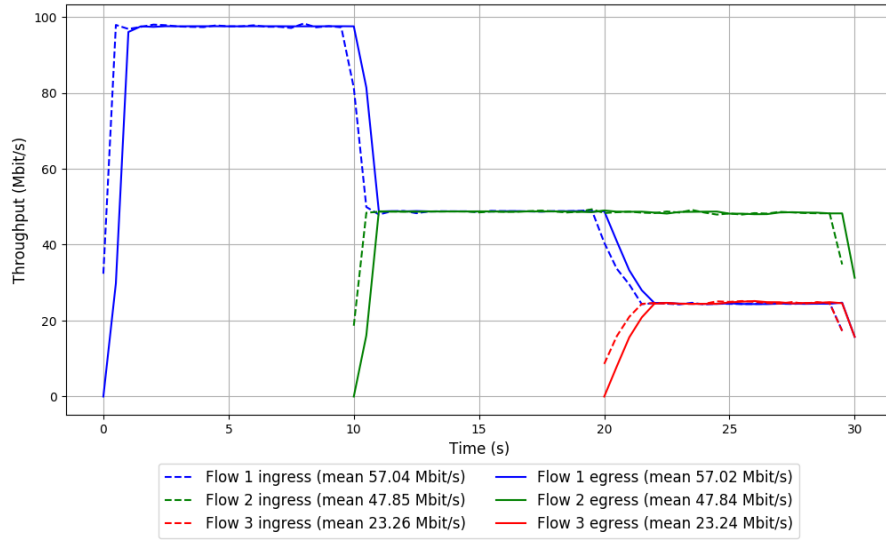


Run 5: Statistics of Indigo

Start at: 2019-09-19 01:07:42
End at: 2019-09-19 01:08:12
Local clock offset: 0.554 ms
Remote clock offset: -3.038 ms

```
# Below is generated by plot.py at 2019-09-19 01:19:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.41 Mbit/s
95th percentile per-packet one-way delay: 26.321 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 57.02 Mbit/s
95th percentile per-packet one-way delay: 31.844 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 47.84 Mbit/s
95th percentile per-packet one-way delay: 24.683 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 23.24 Mbit/s
95th percentile per-packet one-way delay: 26.403 ms
Loss rate: 0.60%
```

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-09-18 23:11:38

End at: 2019-09-18 23:12:08

Local clock offset: 6.466 ms

Remote clock offset: 1.583 ms

Below is generated by plot.py at 2019-09-19 01:19:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.08 Mbit/s

95th percentile per-packet one-way delay: 28.427 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 57.82 Mbit/s

95th percentile per-packet one-way delay: 29.342 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 26.893 ms

Loss rate: 0.06%

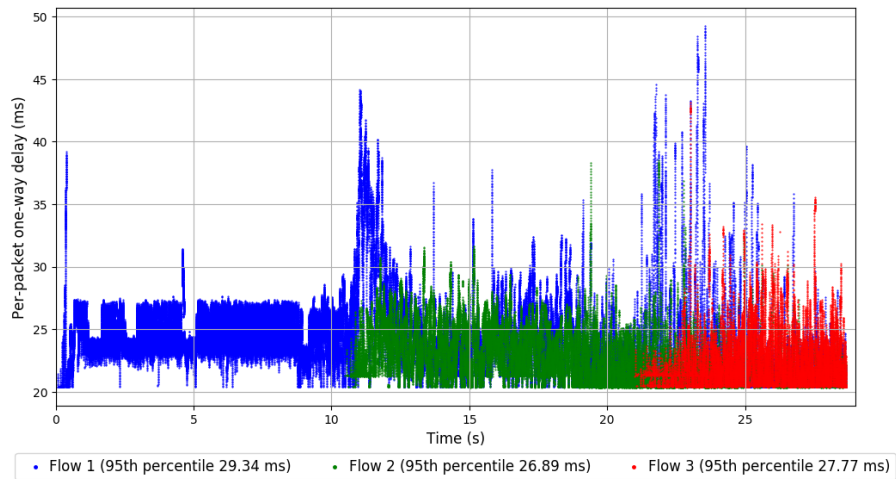
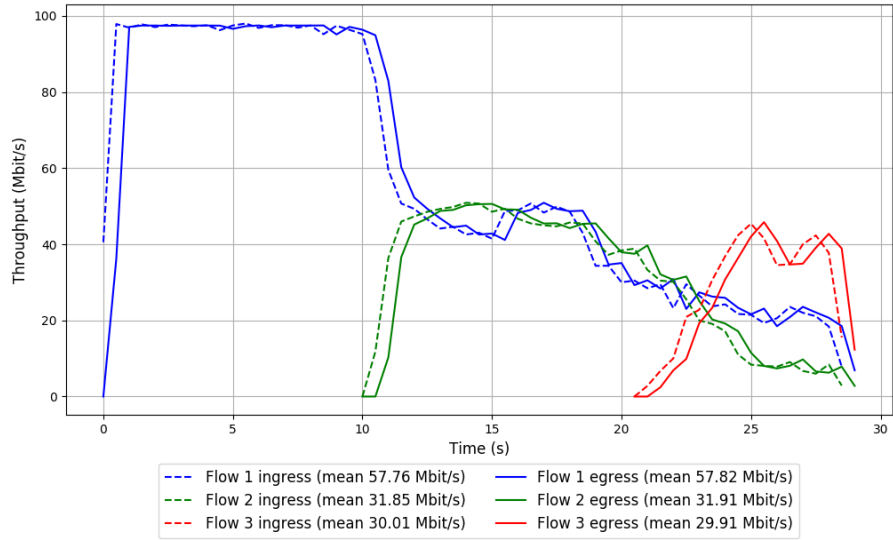
-- Flow 3:

Average throughput: 29.91 Mbit/s

95th percentile per-packet one-way delay: 27.770 ms

Loss rate: 0.99%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-09-18 23:41:40

End at: 2019-09-18 23:42:10

Local clock offset: 1.031 ms

Remote clock offset: 1.807 ms

Below is generated by plot.py at 2019-09-19 01:20:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.29 Mbit/s

95th percentile per-packet one-way delay: 26.018 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 57.59 Mbit/s

95th percentile per-packet one-way delay: 27.092 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 31.44 Mbit/s

95th percentile per-packet one-way delay: 24.695 ms

Loss rate: 0.22%

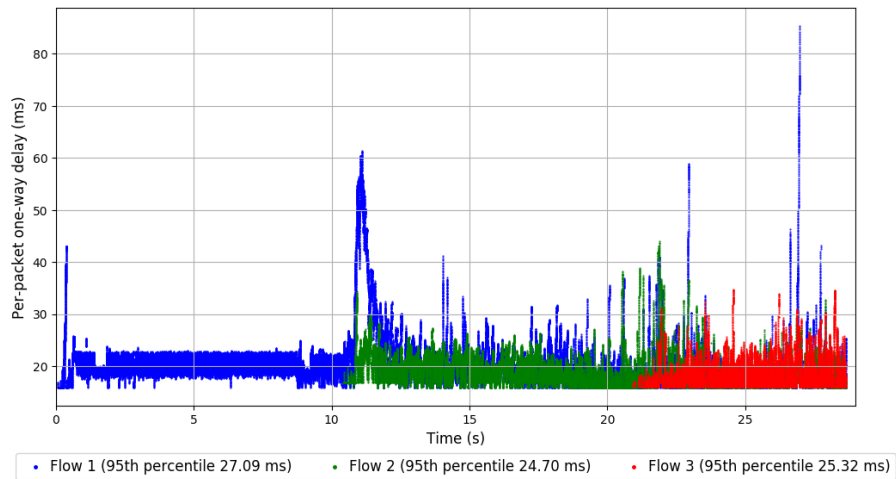
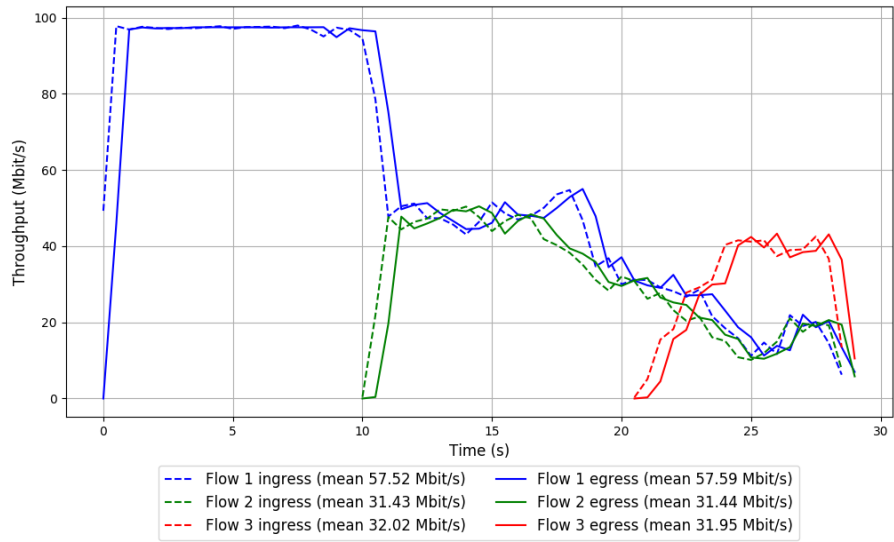
-- Flow 3:

Average throughput: 31.95 Mbit/s

95th percentile per-packet one-way delay: 25.316 ms

Loss rate: 0.87%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-09-19 00:11:13

End at: 2019-09-19 00:11:43

Local clock offset: 6.797 ms

Remote clock offset: 0.226 ms

Below is generated by plot.py at 2019-09-19 01:20:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.81 Mbit/s

95th percentile per-packet one-way delay: 30.232 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 58.44 Mbit/s

95th percentile per-packet one-way delay: 30.921 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 28.947 ms

Loss rate: 0.17%

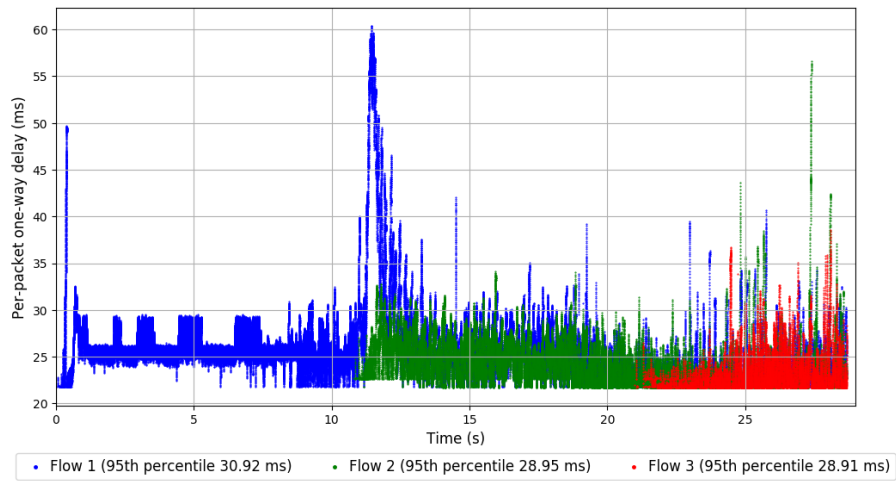
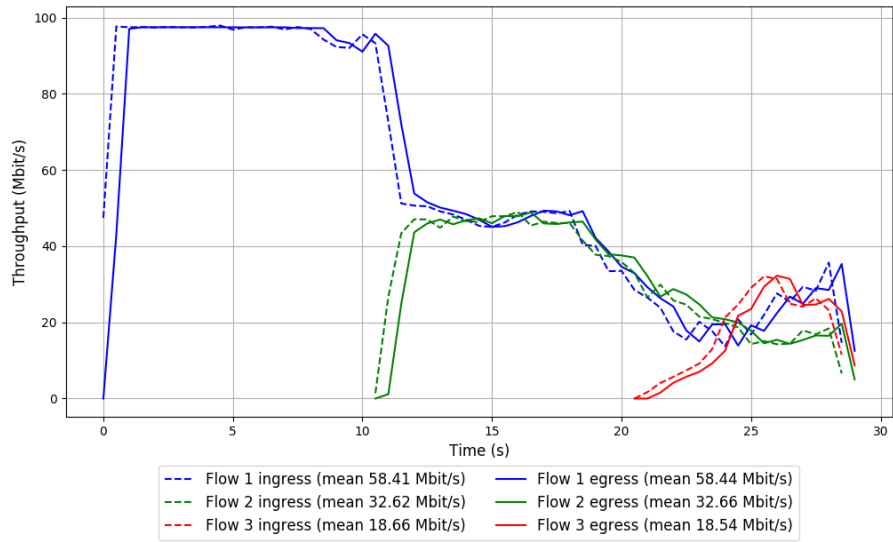
-- Flow 3:

Average throughput: 18.54 Mbit/s

95th percentile per-packet one-way delay: 28.907 ms

Loss rate: 1.39%

Run 3: Report of Indigo-MusesC3 — Data Link

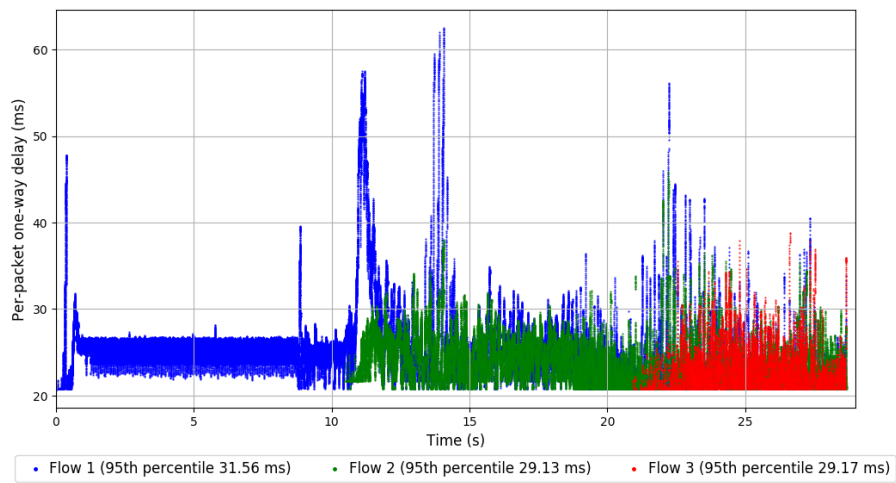
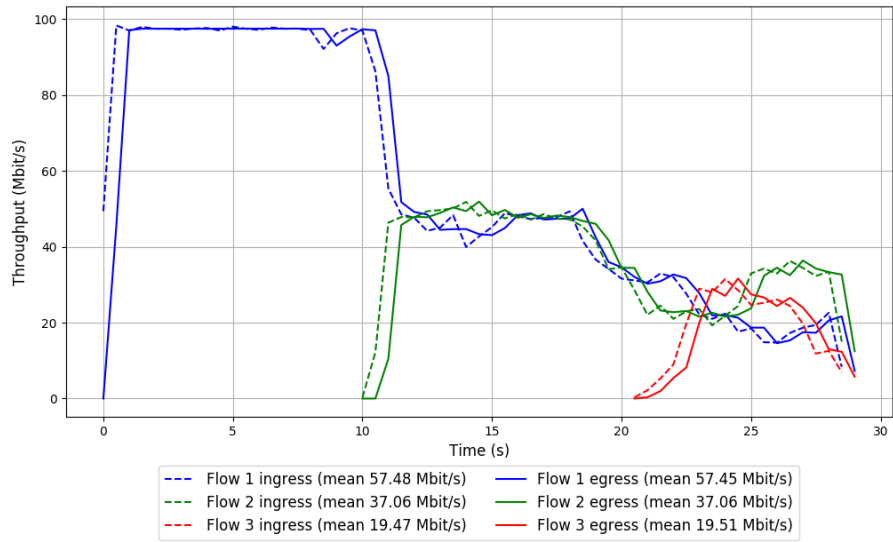


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-09-19 00:41:03
End at: 2019-09-19 00:41:33
Local clock offset: 5.574 ms
Remote clock offset: -0.222 ms

```
# Below is generated by plot.py at 2019-09-19 01:20:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.28 Mbit/s
95th percentile per-packet one-way delay: 30.289 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 57.45 Mbit/s
95th percentile per-packet one-way delay: 31.559 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 37.06 Mbit/s
95th percentile per-packet one-way delay: 29.130 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 19.51 Mbit/s
95th percentile per-packet one-way delay: 29.167 ms
Loss rate: 0.56%
```

Run 4: Report of Indigo-MusesC3 — Data Link

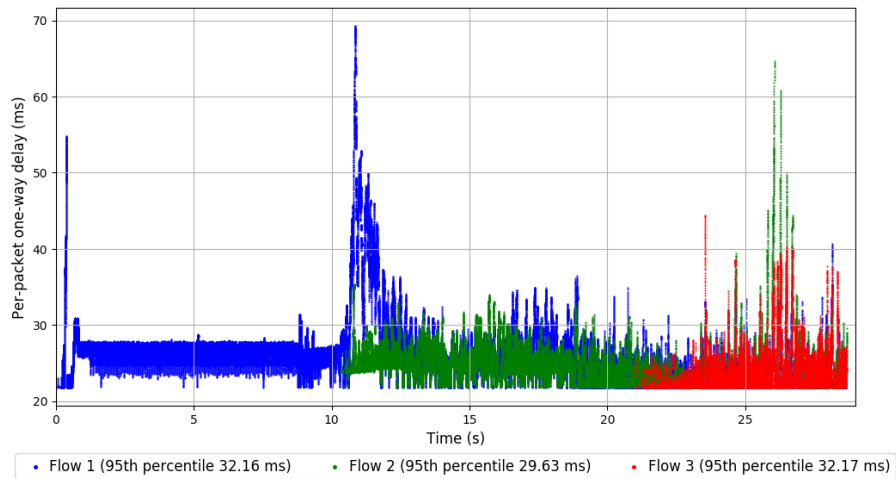
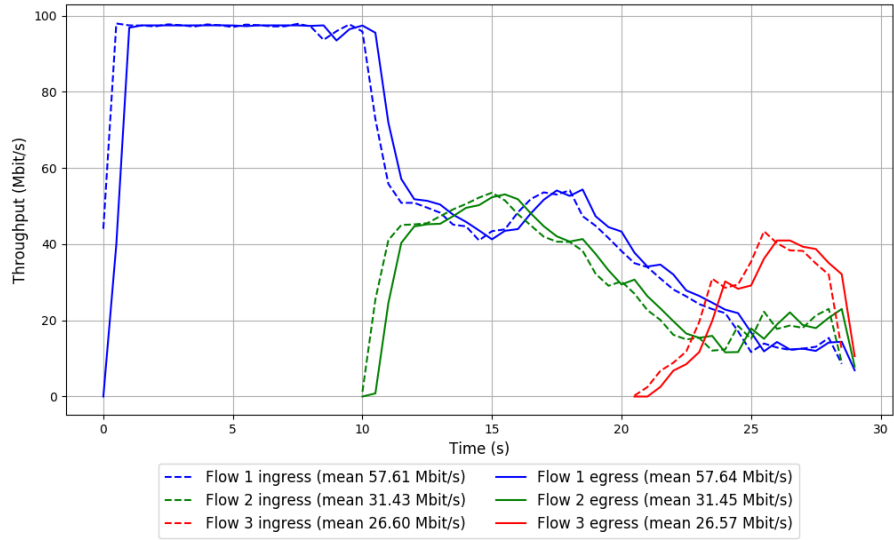


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-09-19 01:11:19
End at: 2019-09-19 01:11:49
Local clock offset: 5.865 ms
Remote clock offset: -2.385 ms

```
# Below is generated by plot.py at 2019-09-19 01:20:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.96 Mbit/s
95th percentile per-packet one-way delay: 31.327 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 57.64 Mbit/s
95th percentile per-packet one-way delay: 32.160 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 31.45 Mbit/s
95th percentile per-packet one-way delay: 29.630 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 26.57 Mbit/s
95th percentile per-packet one-way delay: 32.172 ms
Loss rate: 0.64%
```

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-09-18 23:00:19

End at: 2019-09-18 23:00:49

Local clock offset: 0.483 ms

Remote clock offset: 0.924 ms

Below is generated by plot.py at 2019-09-19 01:20:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.59 Mbit/s

95th percentile per-packet one-way delay: 63.938 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 57.07 Mbit/s

95th percentile per-packet one-way delay: 64.923 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 38.24 Mbit/s

95th percentile per-packet one-way delay: 62.299 ms

Loss rate: 1.37%

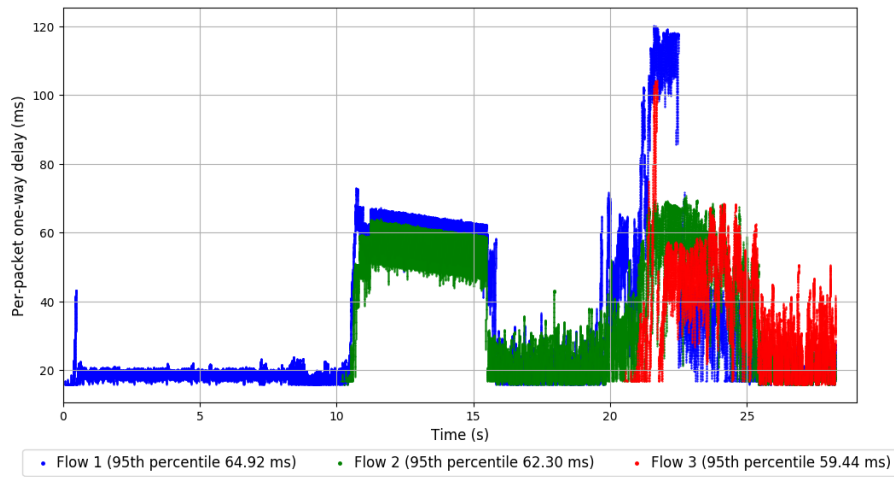
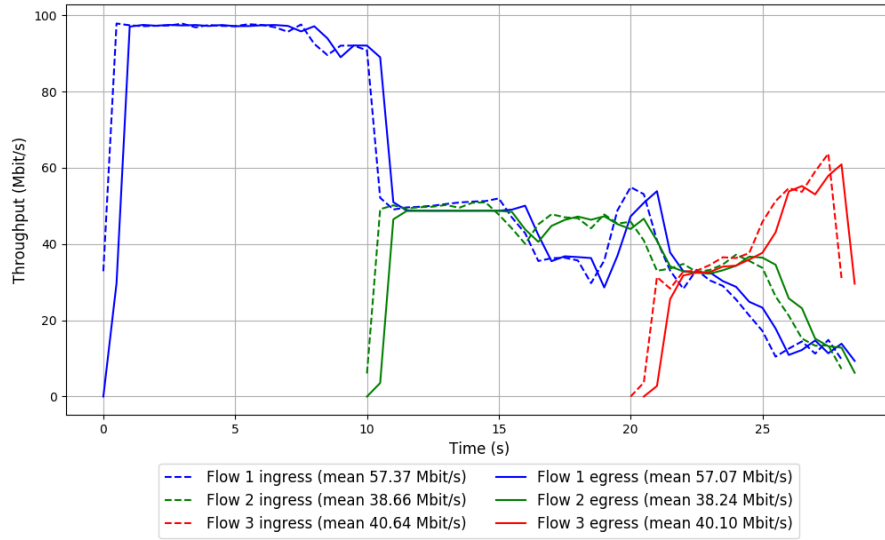
-- Flow 3:

Average throughput: 40.10 Mbit/s

95th percentile per-packet one-way delay: 59.435 ms

Loss rate: 1.98%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-09-18 23:30:32

End at: 2019-09-18 23:31:02

Local clock offset: 3.503 ms

Remote clock offset: 0.541 ms

Below is generated by plot.py at 2019-09-19 01:20:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 83.746 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 61.91 Mbit/s

95th percentile per-packet one-way delay: 86.220 ms

Loss rate: 1.52%

-- Flow 2:

Average throughput: 35.61 Mbit/s

95th percentile per-packet one-way delay: 65.308 ms

Loss rate: 1.93%

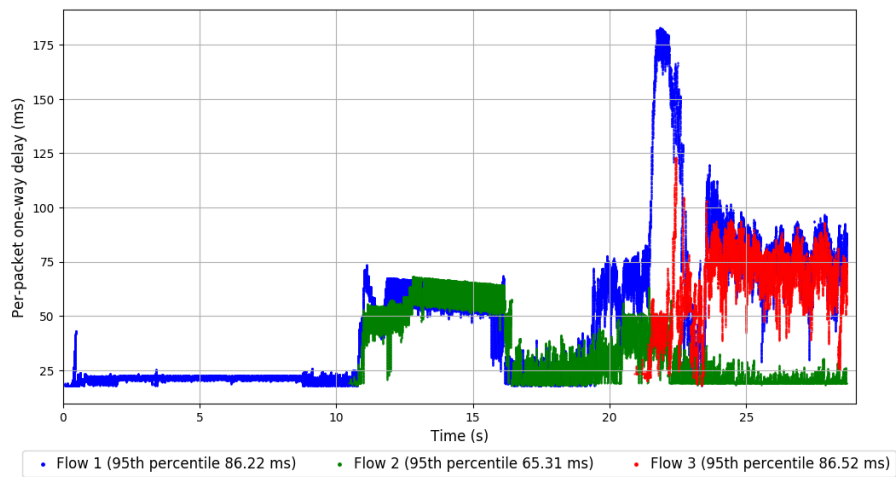
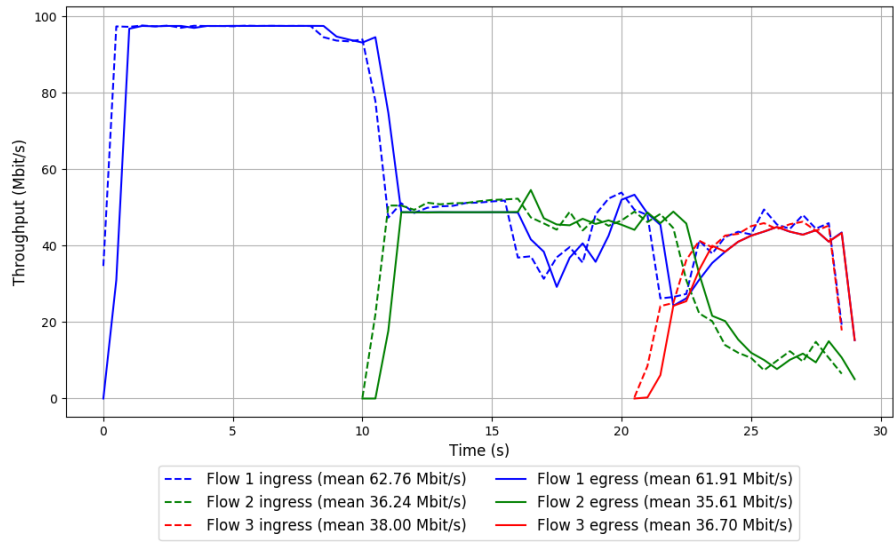
-- Flow 3:

Average throughput: 36.70 Mbit/s

95th percentile per-packet one-way delay: 86.522 ms

Loss rate: 4.10%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-09-19 00:00:09

End at: 2019-09-19 00:00:39

Local clock offset: -0.147 ms

Remote clock offset: 1.488 ms

Below is generated by plot.py at 2019-09-19 01:21:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.43 Mbit/s

95th percentile per-packet one-way delay: 110.489 ms

Loss rate: 2.46%

-- Flow 1:

Average throughput: 54.69 Mbit/s

95th percentile per-packet one-way delay: 97.591 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 41.51 Mbit/s

95th percentile per-packet one-way delay: 126.769 ms

Loss rate: 3.27%

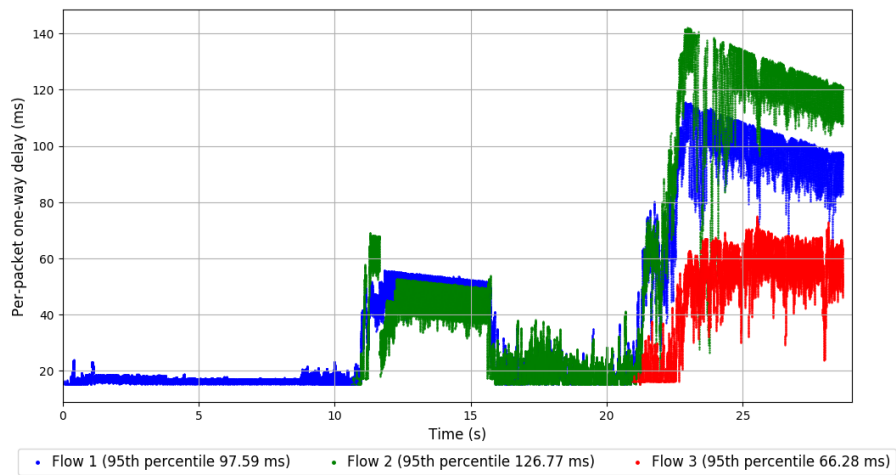
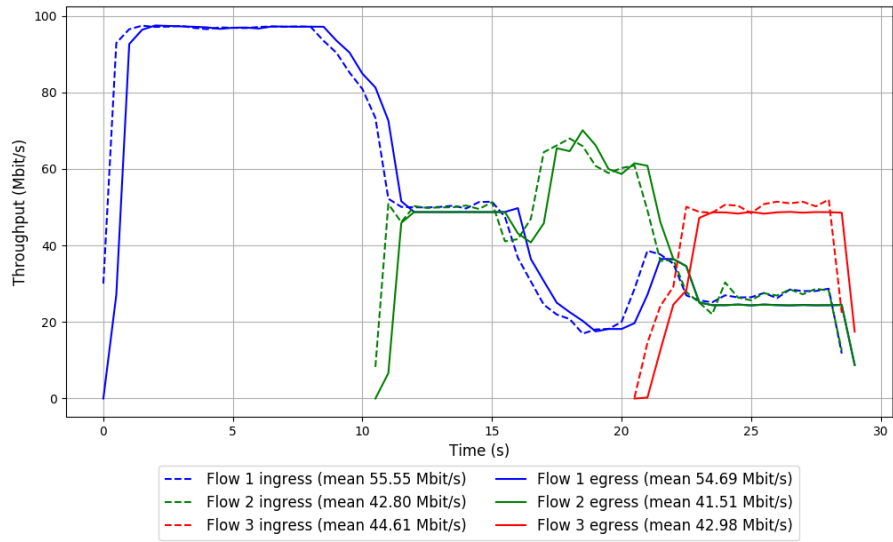
-- Flow 3:

Average throughput: 42.98 Mbit/s

95th percentile per-packet one-way delay: 66.276 ms

Loss rate: 4.22%

Run 3: Report of Indigo-MusesC5 — Data Link

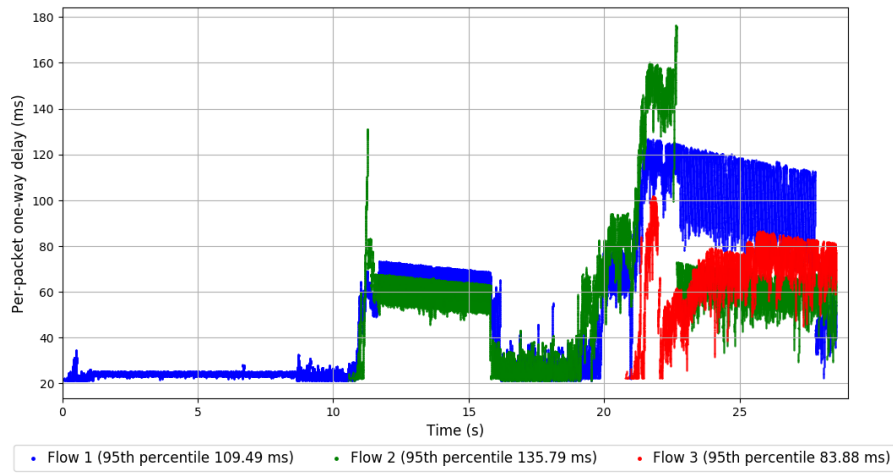
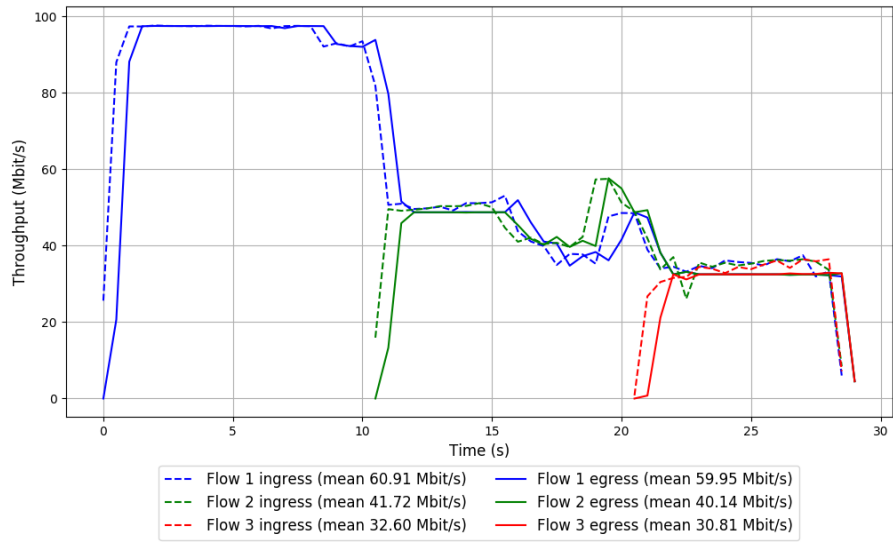


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-09-19 00:29:53
End at: 2019-09-19 00:30:23
Local clock offset: 7.198 ms
Remote clock offset: -0.279 ms

```
# Below is generated by plot.py at 2019-09-19 01:21:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 109.345 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 59.95 Mbit/s
95th percentile per-packet one-way delay: 109.492 ms
Loss rate: 1.69%
-- Flow 2:
Average throughput: 40.14 Mbit/s
95th percentile per-packet one-way delay: 135.789 ms
Loss rate: 4.03%
-- Flow 3:
Average throughput: 30.81 Mbit/s
95th percentile per-packet one-way delay: 83.878 ms
Loss rate: 6.10%
```

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-09-19 01:00:04

End at: 2019-09-19 01:00:34

Local clock offset: 0.365 ms

Remote clock offset: -2.52 ms

Below is generated by plot.py at 2019-09-19 01:21:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.35 Mbit/s

95th percentile per-packet one-way delay: 101.507 ms

Loss rate: 2.56%

-- Flow 1:

Average throughput: 58.81 Mbit/s

95th percentile per-packet one-way delay: 60.903 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 41.47 Mbit/s

95th percentile per-packet one-way delay: 127.411 ms

Loss rate: 4.32%

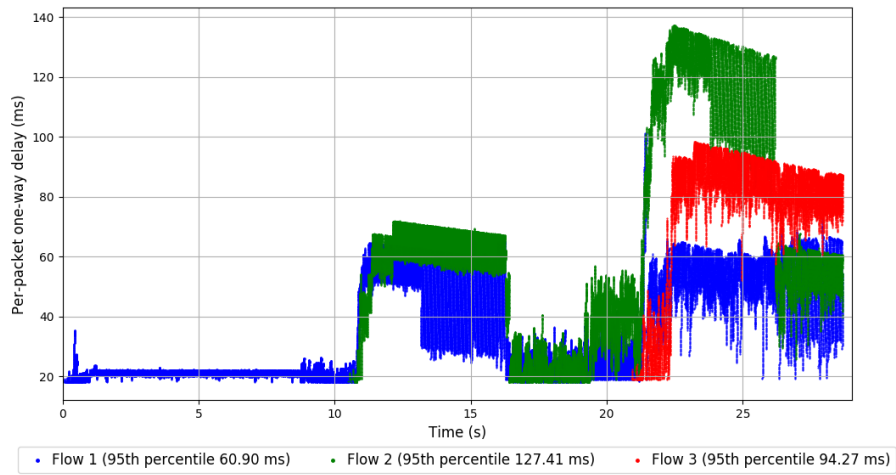
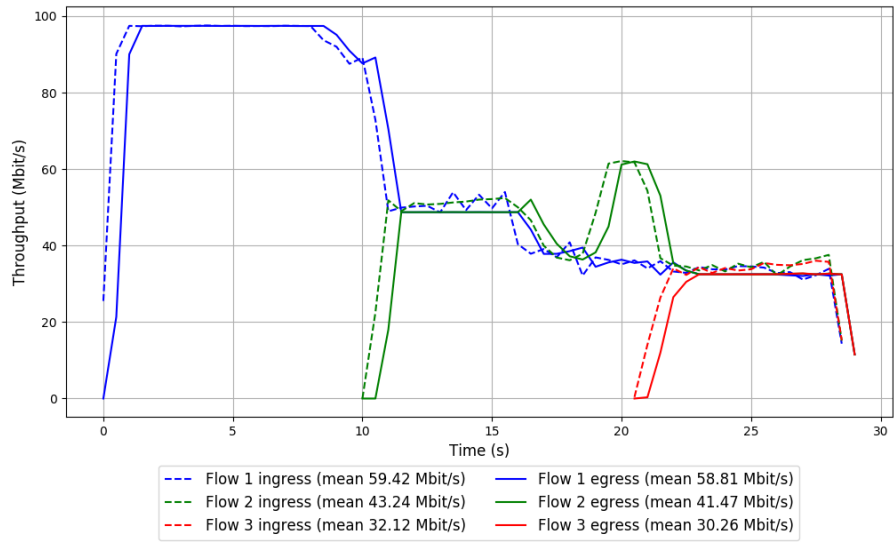
-- Flow 3:

Average throughput: 30.26 Mbit/s

95th percentile per-packet one-way delay: 94.270 ms

Loss rate: 6.38%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-09-18 22:51:10

End at: 2019-09-18 22:51:40

Local clock offset: 0.68 ms

Remote clock offset: 0.521 ms

Below is generated by plot.py at 2019-09-19 01:21:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.50 Mbit/s

95th percentile per-packet one-way delay: 24.426 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 52.96 Mbit/s

95th percentile per-packet one-way delay: 23.836 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 42.47 Mbit/s

95th percentile per-packet one-way delay: 24.814 ms

Loss rate: 0.02%

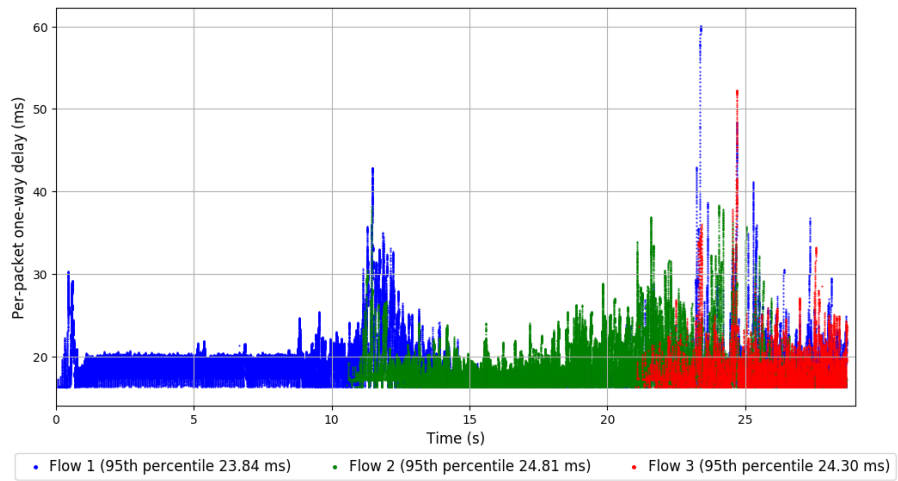
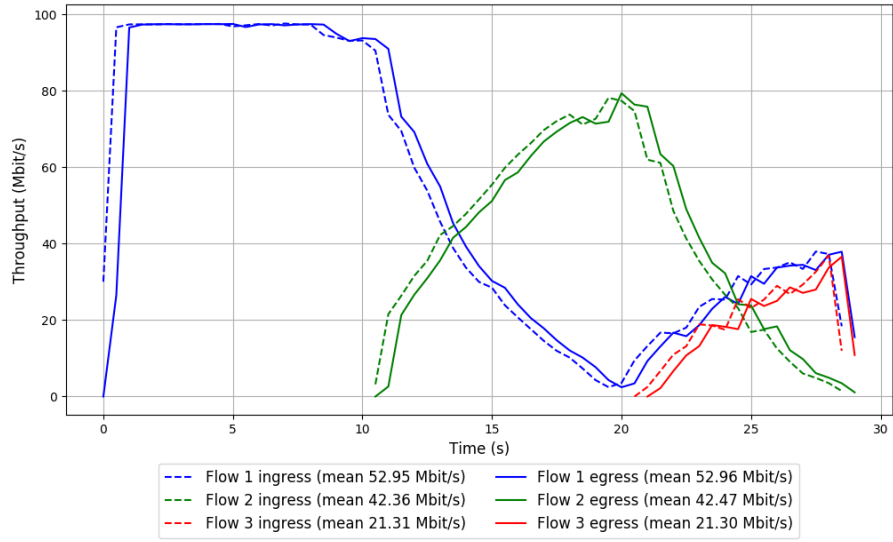
-- Flow 3:

Average throughput: 21.30 Mbit/s

95th percentile per-packet one-way delay: 24.305 ms

Loss rate: 0.71%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-09-18 23:21:28

End at: 2019-09-18 23:21:58

Local clock offset: 2.577 ms

Remote clock offset: 1.92 ms

Below is generated by plot.py at 2019-09-19 01:21:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.03 Mbit/s

95th percentile per-packet one-way delay: 85.310 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 51.26 Mbit/s

95th percentile per-packet one-way delay: 22.117 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 56.51 Mbit/s

95th percentile per-packet one-way delay: 100.954 ms

Loss rate: 1.52%

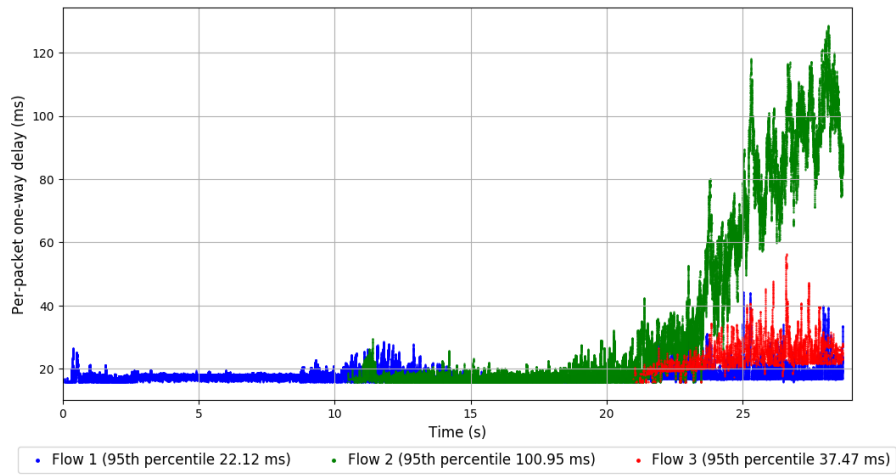
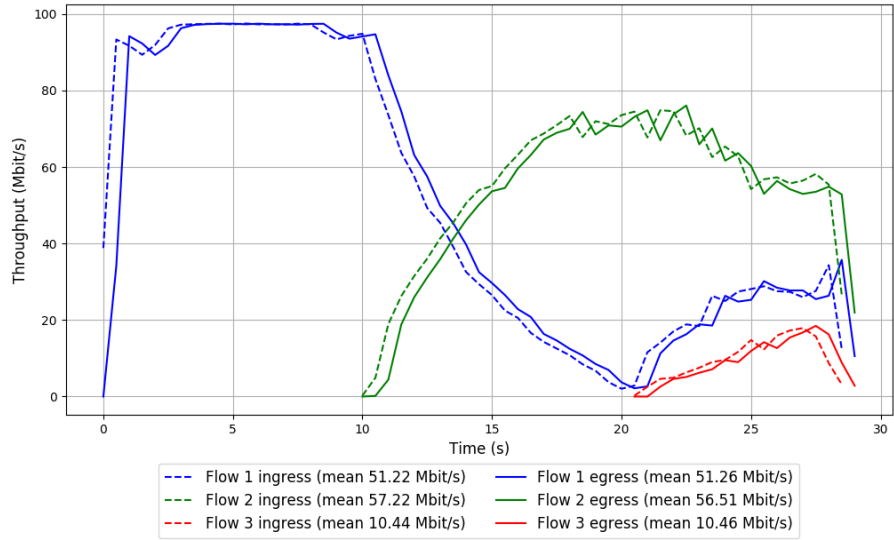
-- Flow 3:

Average throughput: 10.46 Mbit/s

95th percentile per-packet one-way delay: 37.470 ms

Loss rate: 0.45%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-09-18 23:51:21

End at: 2019-09-18 23:51:51

Local clock offset: 5.347 ms

Remote clock offset: 0.212 ms

Below is generated by plot.py at 2019-09-19 01:21:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.39 Mbit/s

95th percentile per-packet one-way delay: 103.812 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 52.05 Mbit/s

95th percentile per-packet one-way delay: 29.986 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 51.82 Mbit/s

95th percentile per-packet one-way delay: 130.693 ms

Loss rate: 1.58%

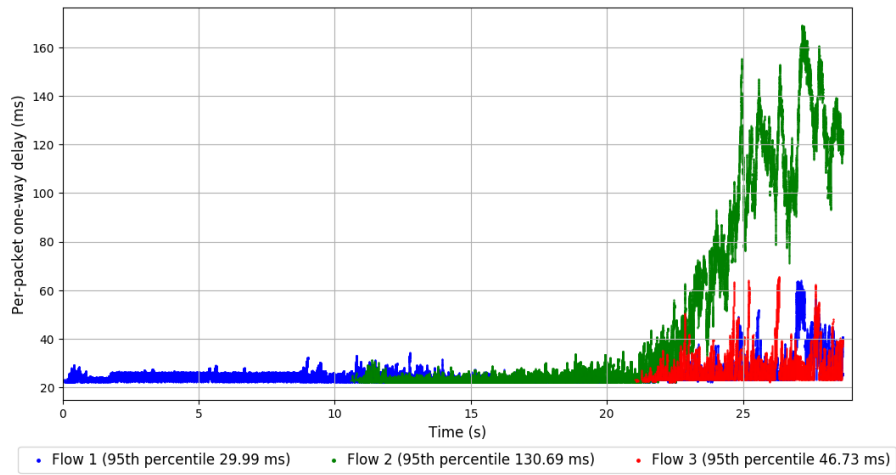
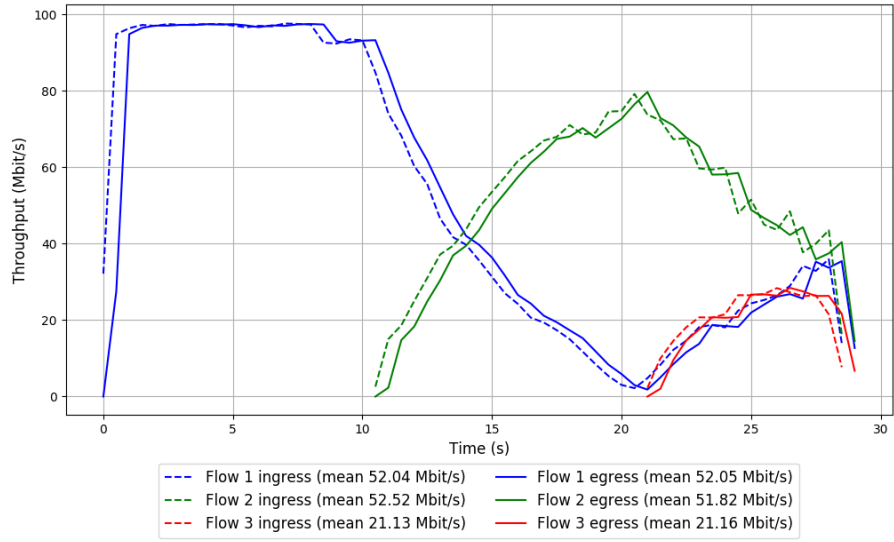
-- Flow 3:

Average throughput: 21.16 Mbit/s

95th percentile per-packet one-way delay: 46.734 ms

Loss rate: 0.75%

Run 3: Report of Indigo-MusesD — Data Link

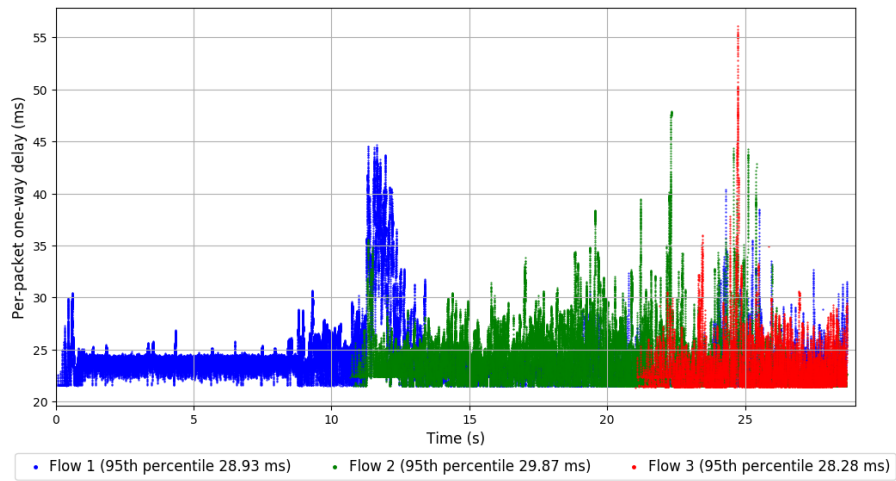
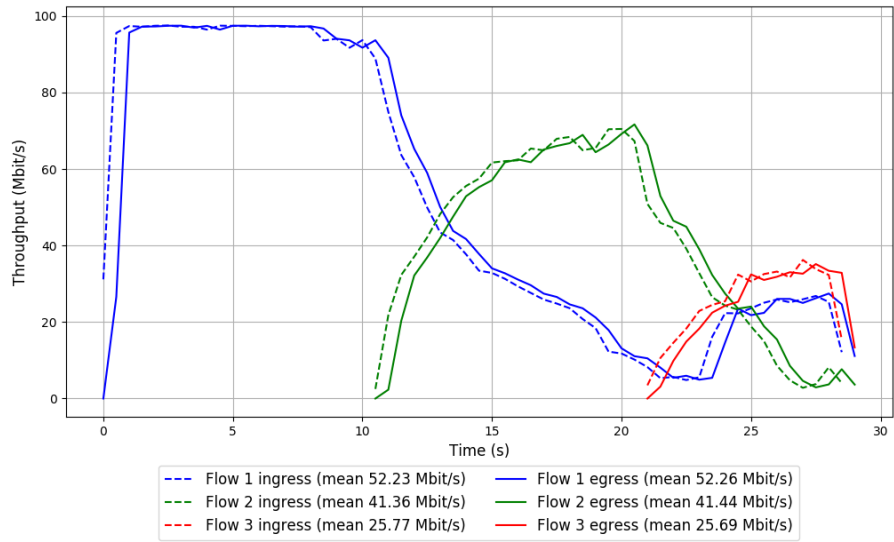


Run 4: Statistics of Indigo-MusesD

Start at: 2019-09-19 00:21:11
End at: 2019-09-19 00:21:41
Local clock offset: 6.952 ms
Remote clock offset: -0.303 ms

```
# Below is generated by plot.py at 2019-09-19 01:21:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.17 Mbit/s
95th percentile per-packet one-way delay: 29.369 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 52.26 Mbit/s
95th percentile per-packet one-way delay: 28.934 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 41.44 Mbit/s
95th percentile per-packet one-way delay: 29.867 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 25.69 Mbit/s
95th percentile per-packet one-way delay: 28.282 ms
Loss rate: 1.04%
```

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-09-19 00:51:07
End at: 2019-09-19 00:51:37
Local clock offset: 0.356 ms
Remote clock offset: -0.878 ms

Below is generated by plot.py at 2019-09-19 01:21:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.98 Mbit/s
95th percentile per-packet one-way delay: 23.066 ms
Loss rate: 0.17%

-- Flow 1:

Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 22.745 ms
Loss rate: 0.07%

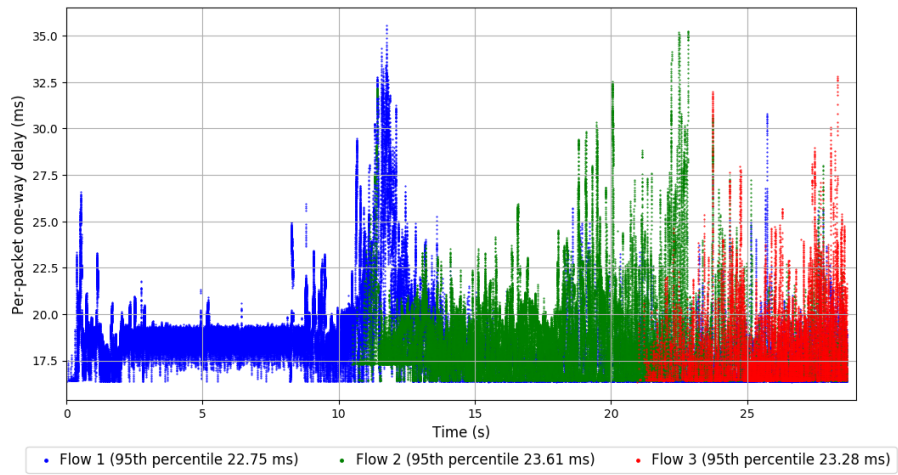
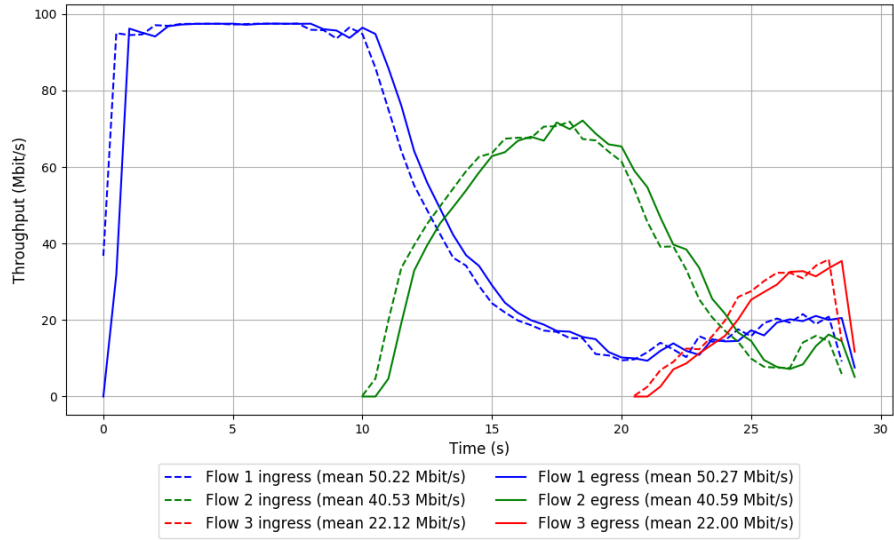
-- Flow 2:

Average throughput: 40.59 Mbit/s
95th percentile per-packet one-way delay: 23.612 ms
Loss rate: 0.10%

-- Flow 3:

Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 23.281 ms
Loss rate: 1.31%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2019-09-18 23:05:15

End at: 2019-09-18 23:05:45

Local clock offset: 5.783 ms

Remote clock offset: 0.866 ms

Below is generated by plot.py at 2019-09-19 01:22:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 107.386 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 60.10 Mbit/s

95th percentile per-packet one-way delay: 100.405 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 46.69 Mbit/s

95th percentile per-packet one-way delay: 44.812 ms

Loss rate: 0.50%

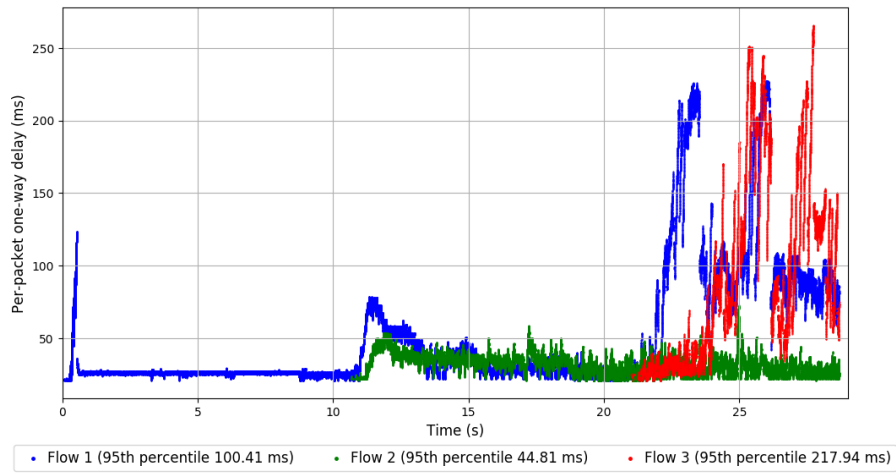
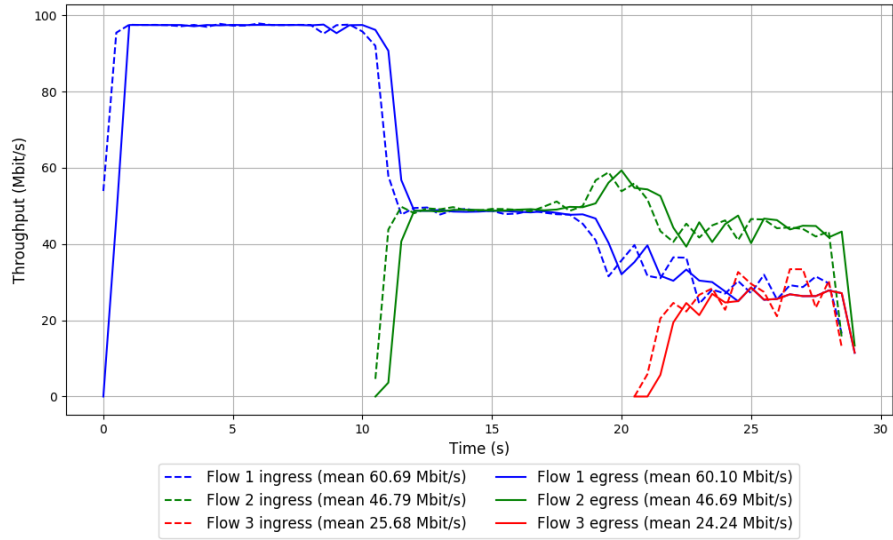
-- Flow 3:

Average throughput: 24.24 Mbit/s

95th percentile per-packet one-way delay: 217.941 ms

Loss rate: 5.56%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MuseST

Start at: 2019-09-18 23:35:29

End at: 2019-09-18 23:35:59

Local clock offset: 6.14 ms

Remote clock offset: 1.342 ms

Below is generated by plot.py at 2019-09-19 01:22:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 73.118 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 62.13 Mbit/s

95th percentile per-packet one-way delay: 70.322 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 43.19 Mbit/s

95th percentile per-packet one-way delay: 148.329 ms

Loss rate: 1.51%

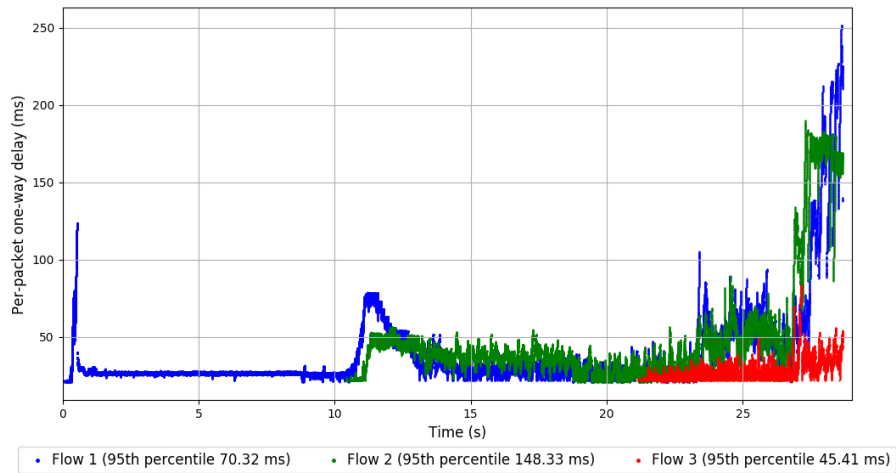
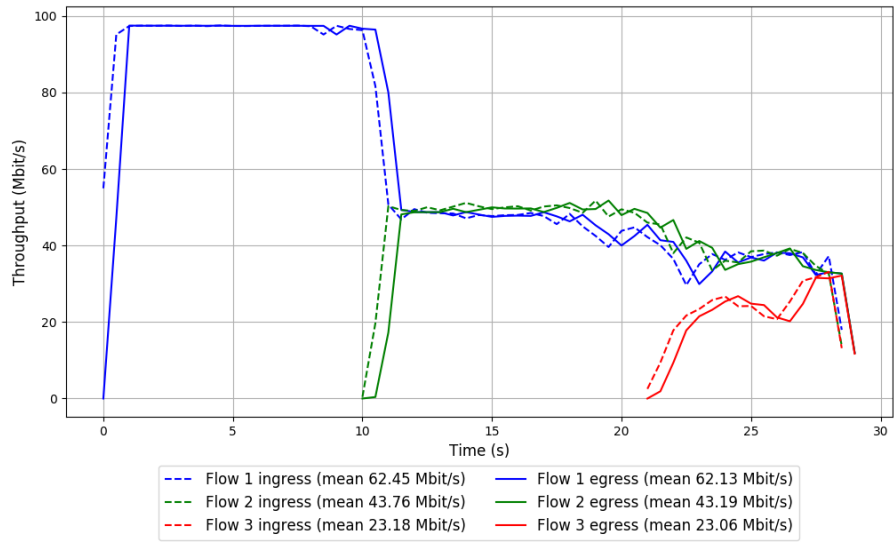
-- Flow 3:

Average throughput: 23.06 Mbit/s

95th percentile per-packet one-way delay: 45.409 ms

Loss rate: 1.11%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2019-09-19 00:05:04

End at: 2019-09-19 00:05:34

Local clock offset: 5.35 ms

Remote clock offset: 1.489 ms

Below is generated by plot.py at 2019-09-19 01:22:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.43 Mbit/s

95th percentile per-packet one-way delay: 100.577 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 60.65 Mbit/s

95th percentile per-packet one-way delay: 89.706 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 46.59 Mbit/s

95th percentile per-packet one-way delay: 42.894 ms

Loss rate: 0.79%

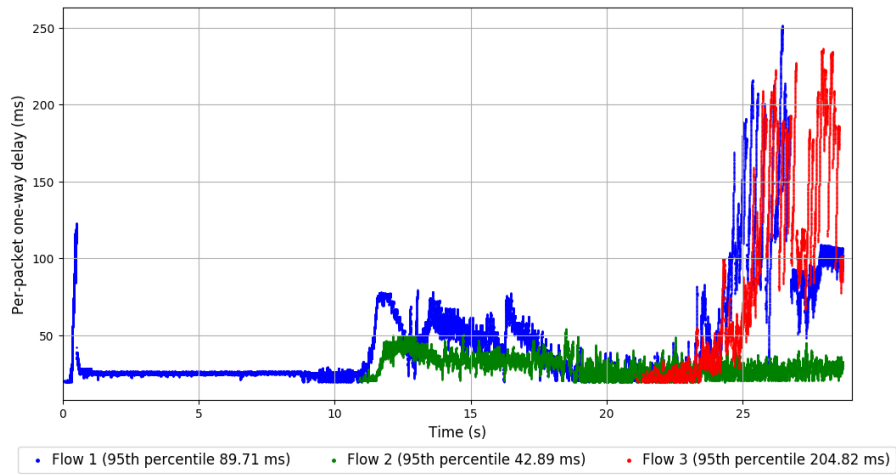
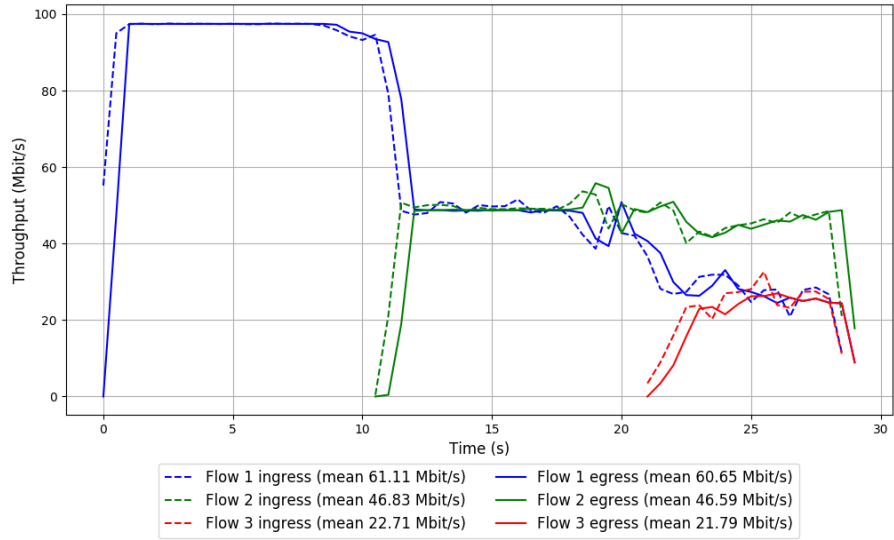
-- Flow 3:

Average throughput: 21.79 Mbit/s

95th percentile per-packet one-way delay: 204.820 ms

Loss rate: 4.70%

Run 3: Report of Indigo-MusesT — Data Link

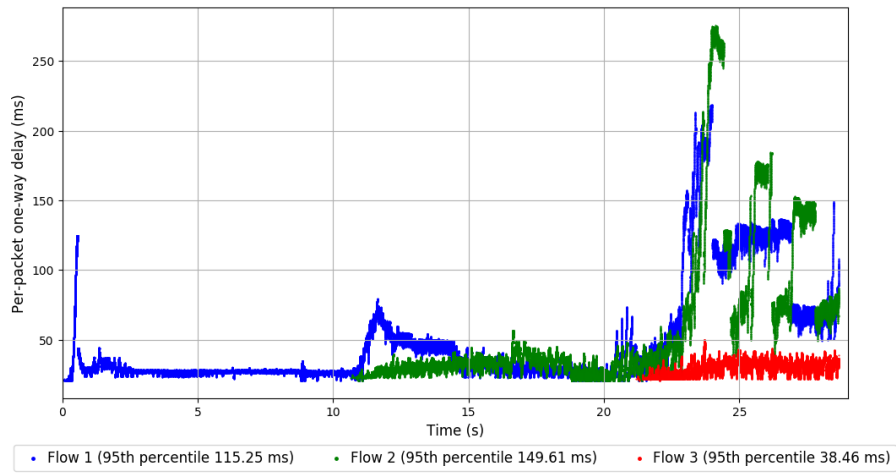
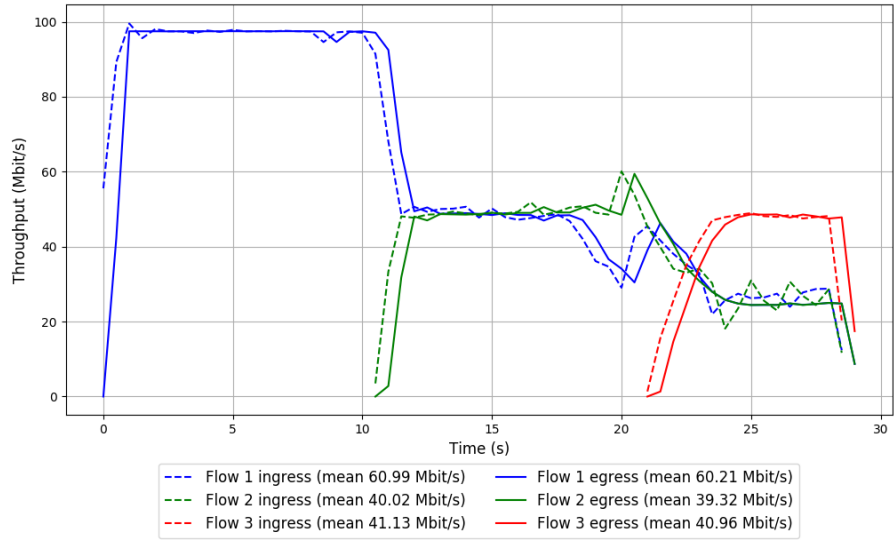


Run 4: Statistics of Indigo-MuseST

Start at: 2019-09-19 00:34:52
End at: 2019-09-19 00:35:22
Local clock offset: 5.818 ms
Remote clock offset: -0.479 ms

```
# Below is generated by plot.py at 2019-09-19 01:22:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 120.057 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 60.21 Mbit/s
95th percentile per-packet one-way delay: 115.249 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 39.32 Mbit/s
95th percentile per-packet one-way delay: 149.606 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 40.96 Mbit/s
95th percentile per-packet one-way delay: 38.464 ms
Loss rate: 1.02%
```

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MuseST

Start at: 2019-09-19 01:05:04

End at: 2019-09-19 01:05:35

Local clock offset: 1.533 ms

Remote clock offset: -2.72 ms

Below is generated by plot.py at 2019-09-19 01:22:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 88.267 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 63.11 Mbit/s

95th percentile per-packet one-way delay: 51.297 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 42.00 Mbit/s

95th percentile per-packet one-way delay: 167.722 ms

Loss rate: 2.11%

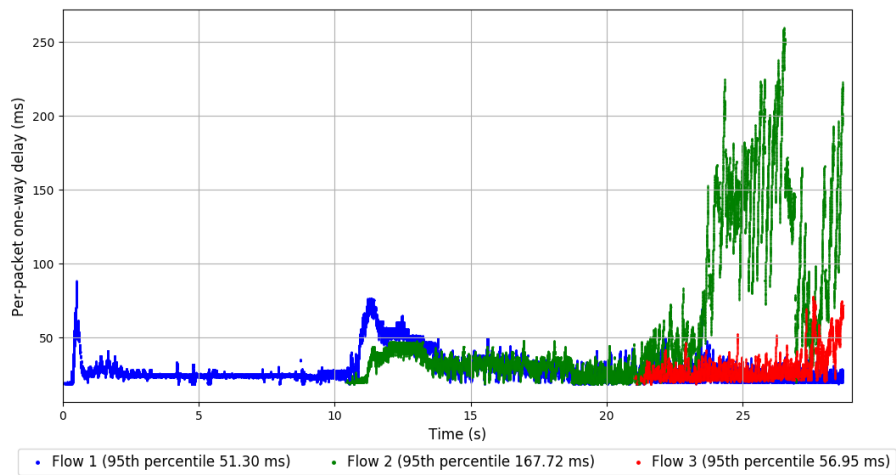
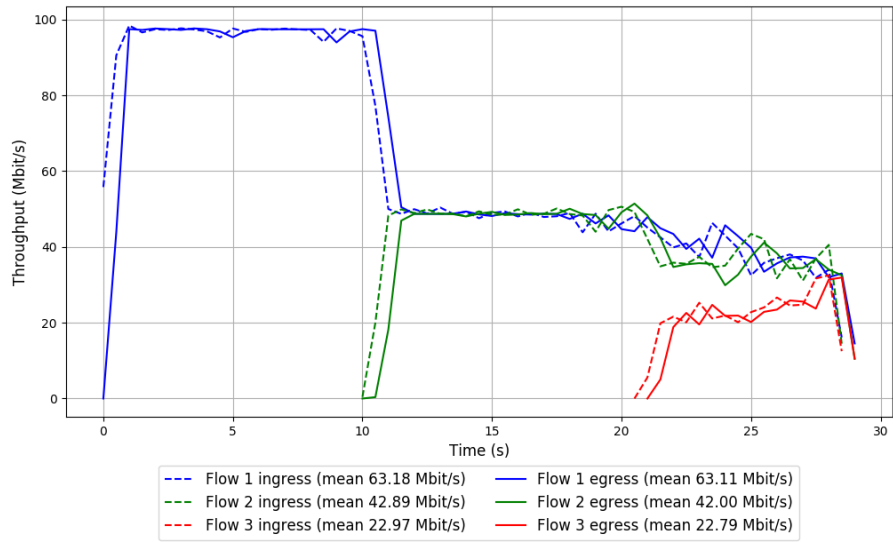
-- Flow 3:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 56.954 ms

Loss rate: 1.43%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-09-18 22:49:53

End at: 2019-09-18 22:50:23

Local clock offset: 0.032 ms

Remote clock offset: 0.56 ms

Below is generated by plot.py at 2019-09-19 01:22:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.28 Mbit/s

95th percentile per-packet one-way delay: 24.643 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 43.55 Mbit/s

95th percentile per-packet one-way delay: 24.583 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 39.58 Mbit/s

95th percentile per-packet one-way delay: 24.303 ms

Loss rate: 0.20%

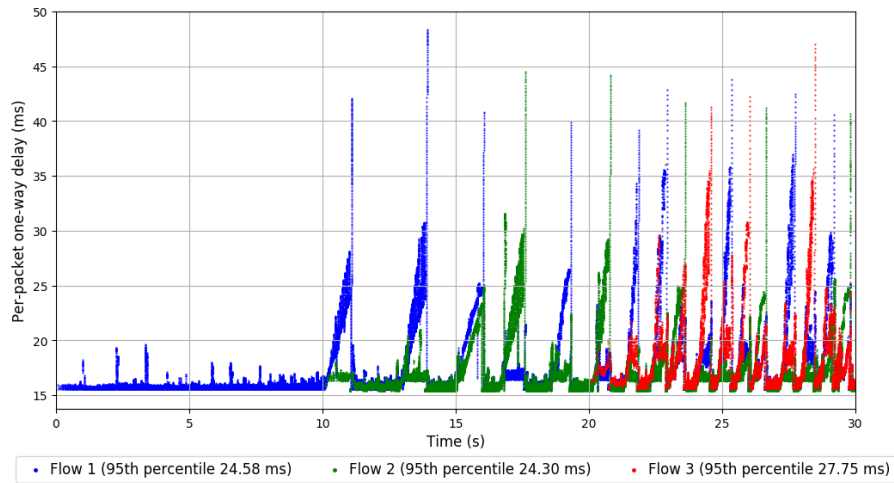
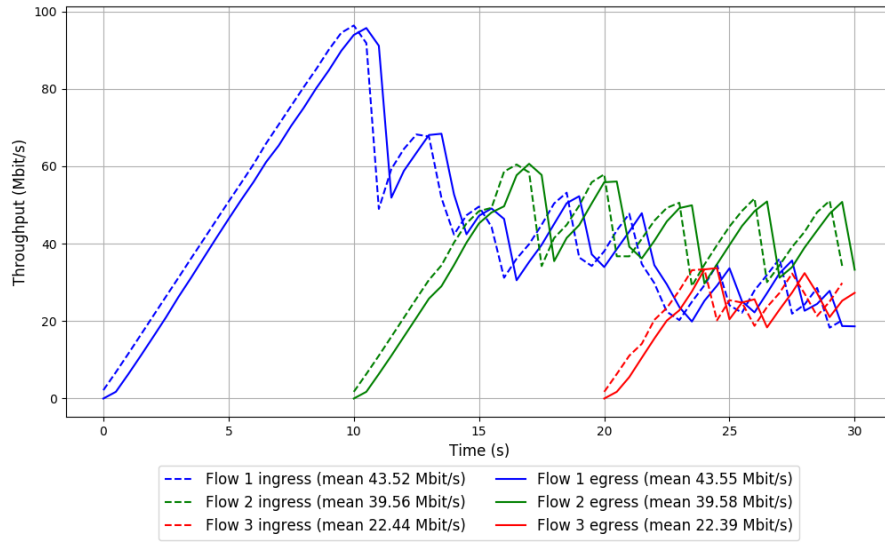
-- Flow 3:

Average throughput: 22.39 Mbit/s

95th percentile per-packet one-way delay: 27.750 ms

Loss rate: 0.76%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-09-18 23:20:13

End at: 2019-09-18 23:20:43

Local clock offset: 6.636 ms

Remote clock offset: 1.629 ms

Below is generated by plot.py at 2019-09-19 01:22:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.91 Mbit/s

95th percentile per-packet one-way delay: 29.014 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 47.80 Mbit/s

95th percentile per-packet one-way delay: 27.843 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 32.04 Mbit/s

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

Loss rate: 0.20%

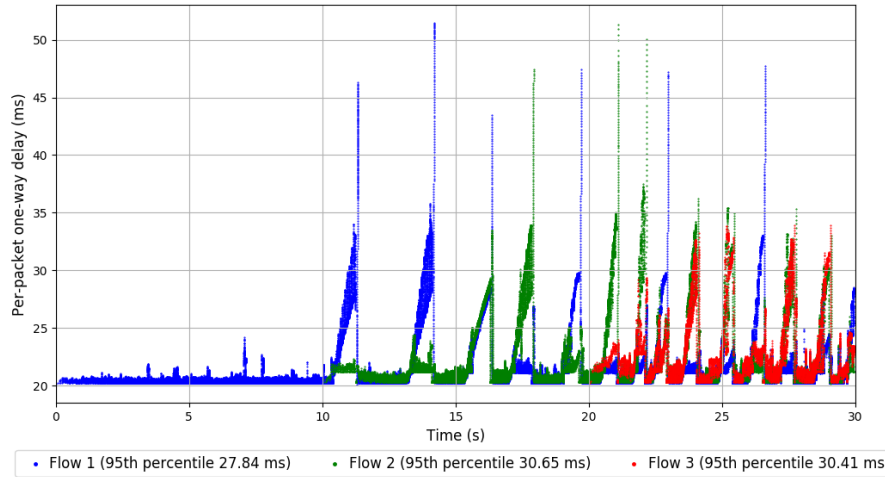
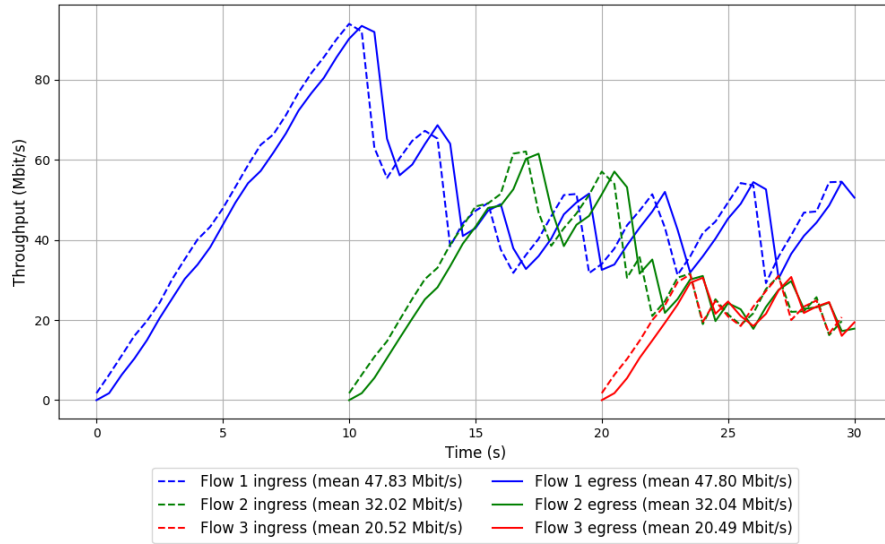
-- Flow 3:

Average throughput: 20.49 Mbit/s

95th percentile per-packet one-way delay: 30.413 ms

Loss rate: 0.61%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-09-18 23:50:09

End at: 2019-09-18 23:50:39

Local clock offset: 0.665 ms

Remote clock offset: 1.416 ms

Below is generated by plot.py at 2019-09-19 01:22:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.91 Mbit/s

95th percentile per-packet one-way delay: 25.060 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 47.40 Mbit/s

95th percentile per-packet one-way delay: 24.689 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 24.73 Mbit/s

95th percentile per-packet one-way delay: 26.311 ms

Loss rate: 0.36%

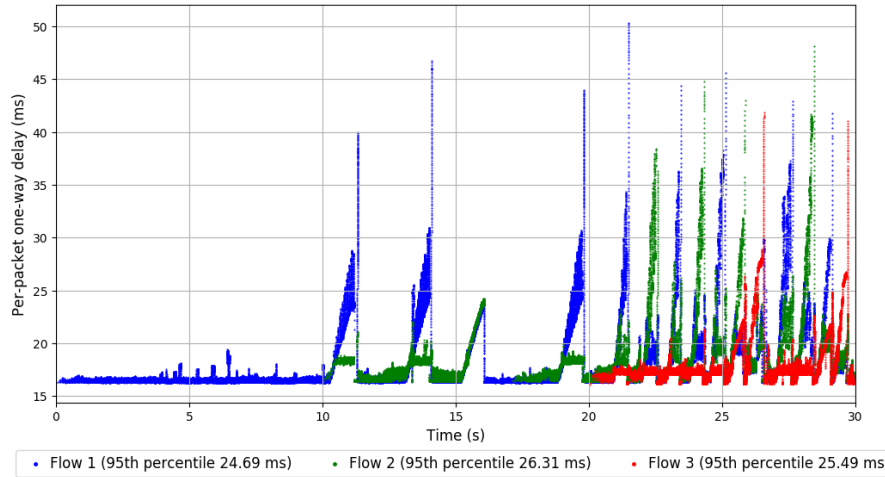
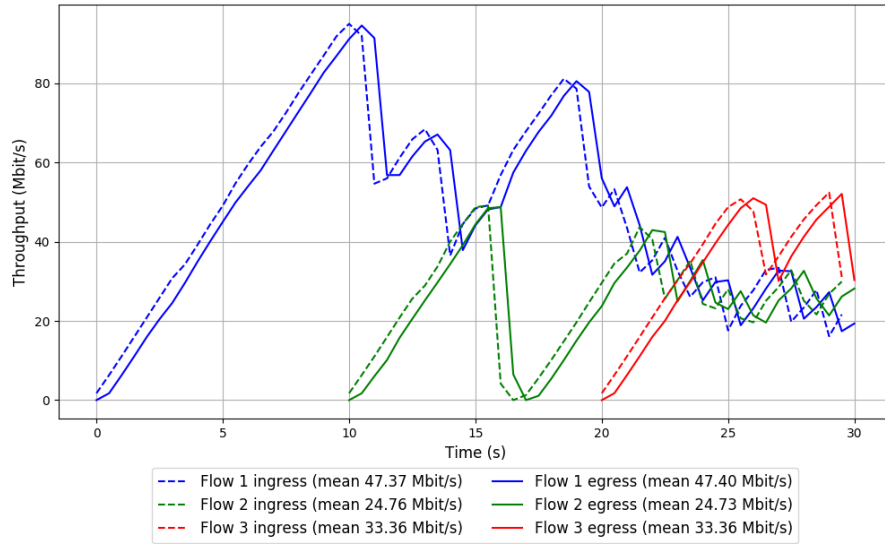
-- Flow 3:

Average throughput: 33.36 Mbit/s

95th percentile per-packet one-way delay: 25.492 ms

Loss rate: 0.49%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-09-19 00:19:57

End at: 2019-09-19 00:20:27

Local clock offset: 6.934 ms

Remote clock offset: 0.4 ms

Below is generated by plot.py at 2019-09-19 01:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.22 Mbit/s

95th percentile per-packet one-way delay: 29.858 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 48.12 Mbit/s

95th percentile per-packet one-way delay: 29.186 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 33.01 Mbit/s

95th percentile per-packet one-way delay: 31.331 ms

Loss rate: 0.31%

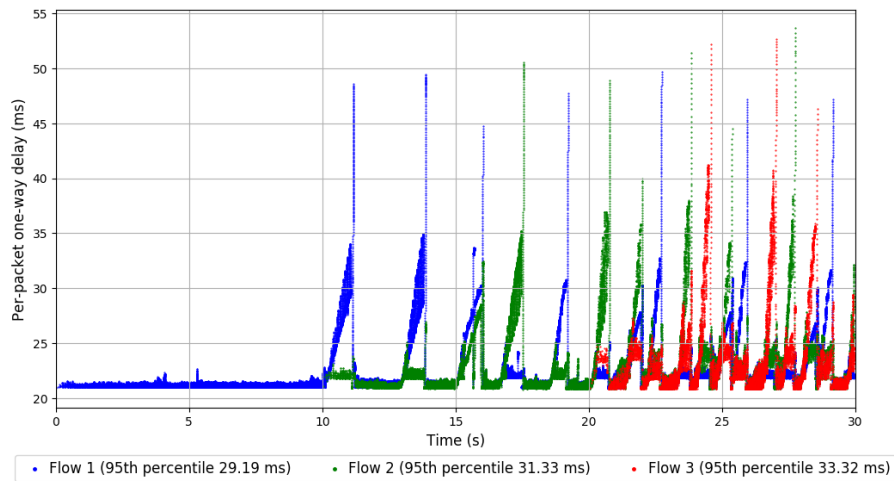
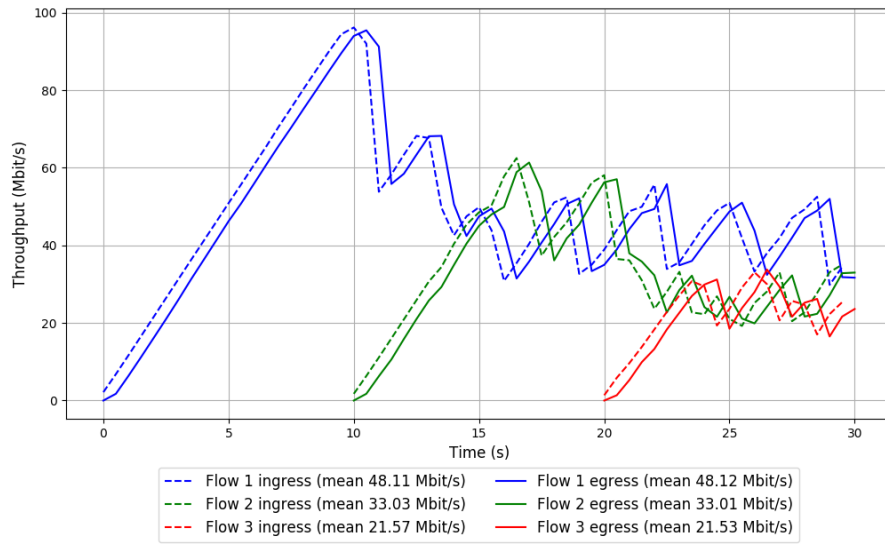
-- Flow 3:

Average throughput: 21.53 Mbit/s

95th percentile per-packet one-way delay: 33.318 ms

Loss rate: 0.69%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-09-19 00:49:49
End at: 2019-09-19 00:50:19
Local clock offset: -0.212 ms
Remote clock offset: -0.305 ms

Below is generated by plot.py at 2019-09-19 01:23:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.90 Mbit/s
95th percentile per-packet one-way delay: 24.108 ms
Loss rate: 0.22%

-- Flow 1:

Average throughput: 45.09 Mbit/s
95th percentile per-packet one-way delay: 23.310 ms
Loss rate: 0.13%

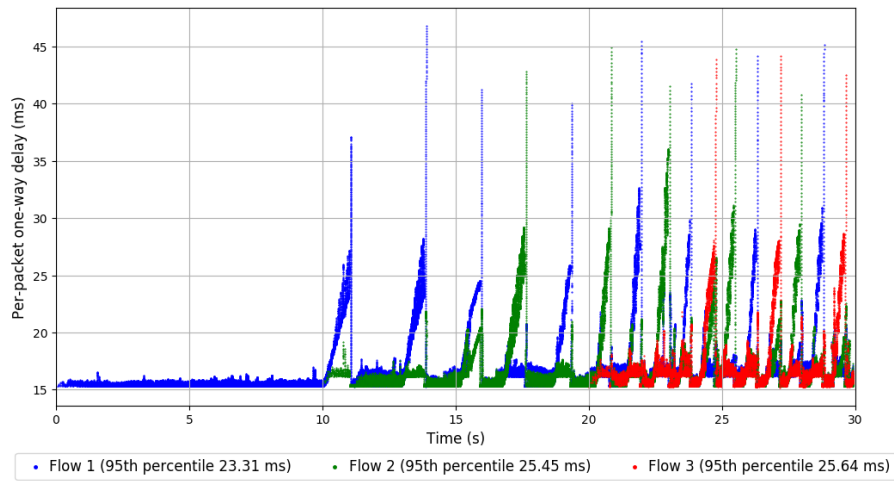
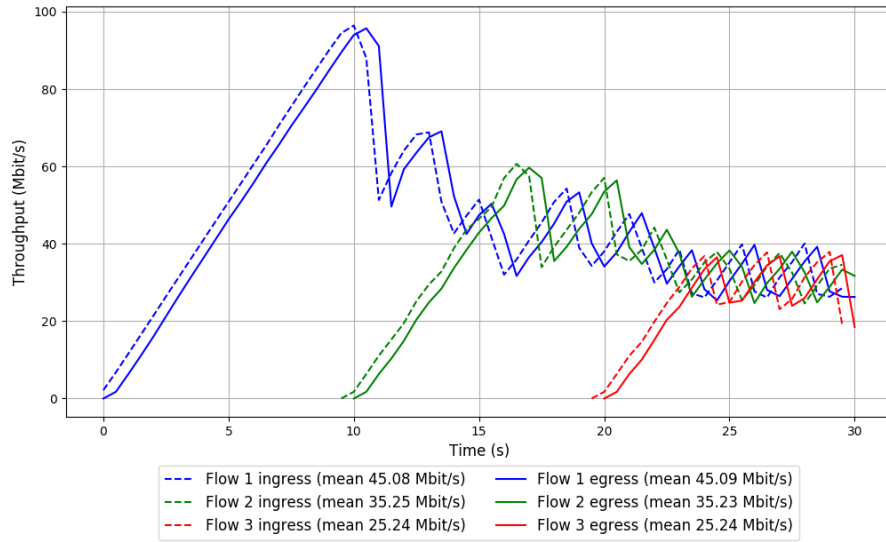
-- Flow 2:

Average throughput: 35.23 Mbit/s
95th percentile per-packet one-way delay: 25.455 ms
Loss rate: 0.30%

-- Flow 3:

Average throughput: 25.24 Mbit/s
95th percentile per-packet one-way delay: 25.641 ms
Loss rate: 0.51%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-09-18 23:09:12

End at: 2019-09-18 23:09:42

Local clock offset: 2.146 ms

Remote clock offset: 0.88 ms

Below is generated by plot.py at 2019-09-19 01:23:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.18 Mbit/s

95th percentile per-packet one-way delay: 25.787 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 50.67 Mbit/s

95th percentile per-packet one-way delay: 23.380 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 30.94 Mbit/s

95th percentile per-packet one-way delay: 25.350 ms

Loss rate: 0.09%

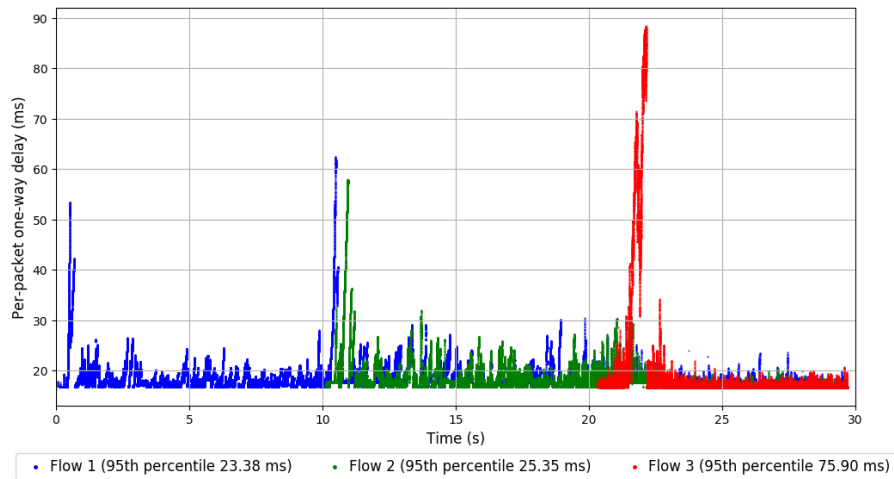
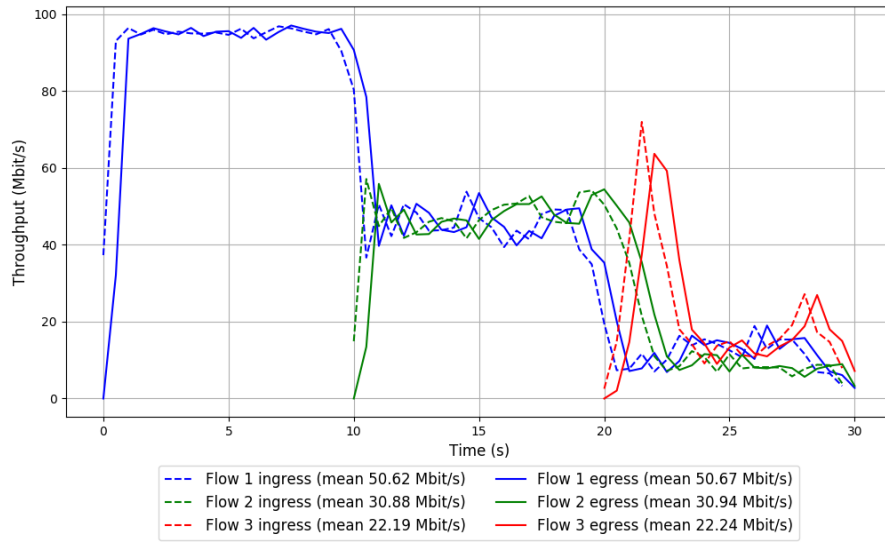
-- Flow 3:

Average throughput: 22.24 Mbit/s

95th percentile per-packet one-way delay: 75.901 ms

Loss rate: 0.27%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-09-18 23:39:21

End at: 2019-09-18 23:39:51

Local clock offset: 5.978 ms

Remote clock offset: 1.326 ms

Below is generated by plot.py at 2019-09-19 01:23:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.79 Mbit/s

95th percentile per-packet one-way delay: 30.072 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 53.24 Mbit/s

95th percentile per-packet one-way delay: 28.182 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 29.53 Mbit/s

95th percentile per-packet one-way delay: 30.012 ms

Loss rate: 0.17%

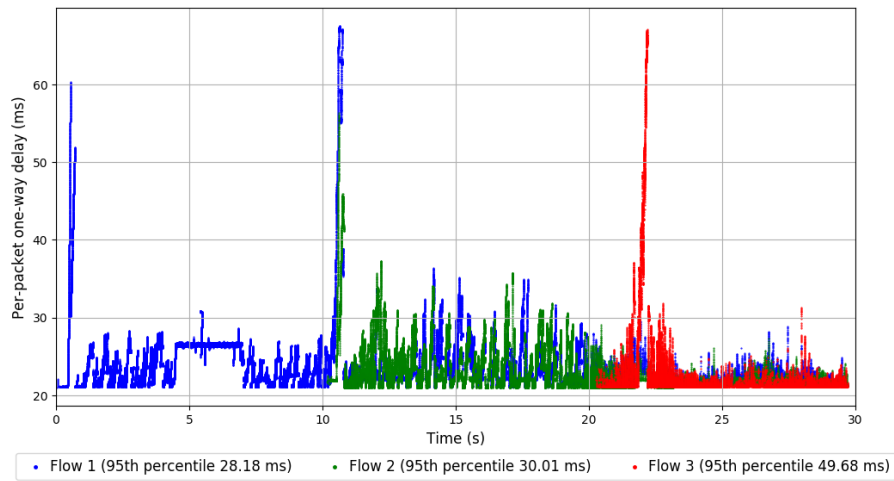
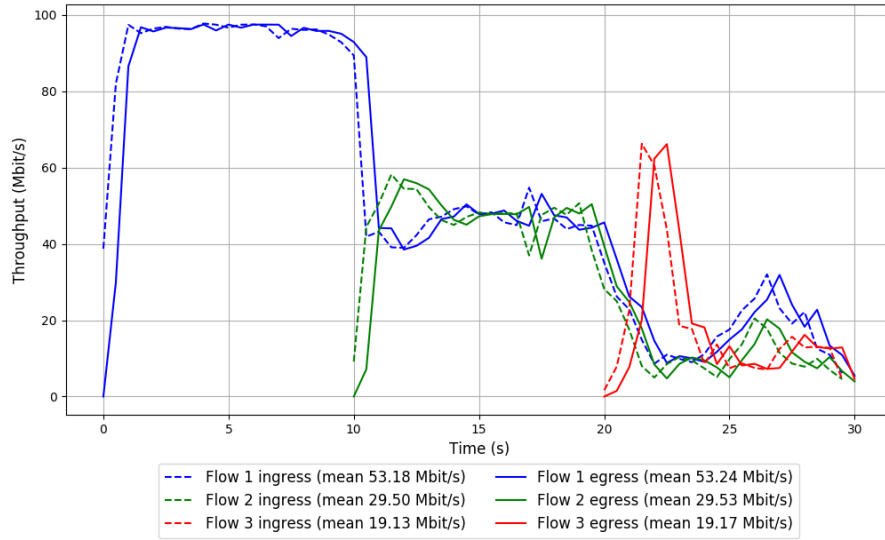
-- Flow 3:

Average throughput: 19.17 Mbit/s

95th percentile per-packet one-way delay: 49.681 ms

Loss rate: 0.17%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-09-19 00:08:52

End at: 2019-09-19 00:09:22

Local clock offset: 0.912 ms

Remote clock offset: 0.704 ms

Below is generated by plot.py at 2019-09-19 01:23:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.46 Mbit/s

95th percentile per-packet one-way delay: 23.572 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 51.38 Mbit/s

95th percentile per-packet one-way delay: 22.758 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 28.57 Mbit/s

95th percentile per-packet one-way delay: 22.646 ms

Loss rate: 0.10%

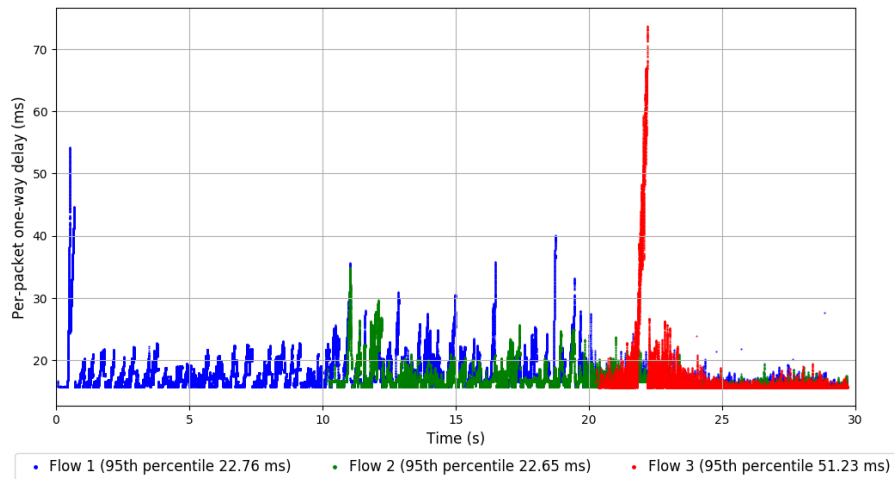
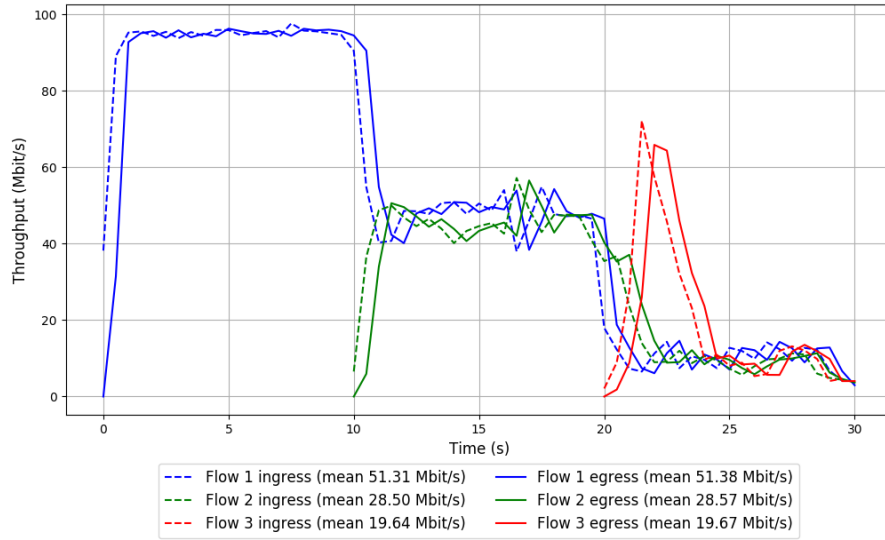
-- Flow 3:

Average throughput: 19.67 Mbit/s

95th percentile per-packet one-way delay: 51.230 ms

Loss rate: 0.27%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-09-19 00:38:43

End at: 2019-09-19 00:39:13

Local clock offset: 5.423 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2019-09-19 01:23:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.78 Mbit/s

95th percentile per-packet one-way delay: 27.529 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 51.87 Mbit/s

95th percentile per-packet one-way delay: 27.280 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 28.25 Mbit/s

95th percentile per-packet one-way delay: 28.971 ms

Loss rate: 0.10%

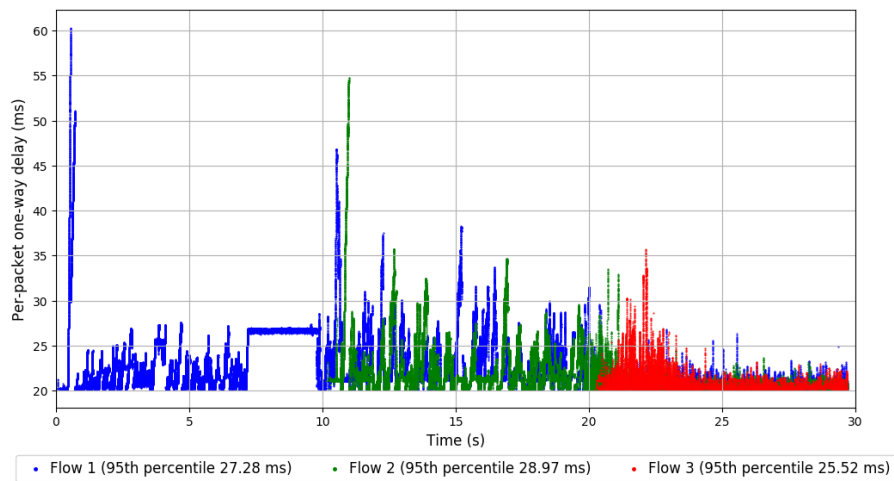
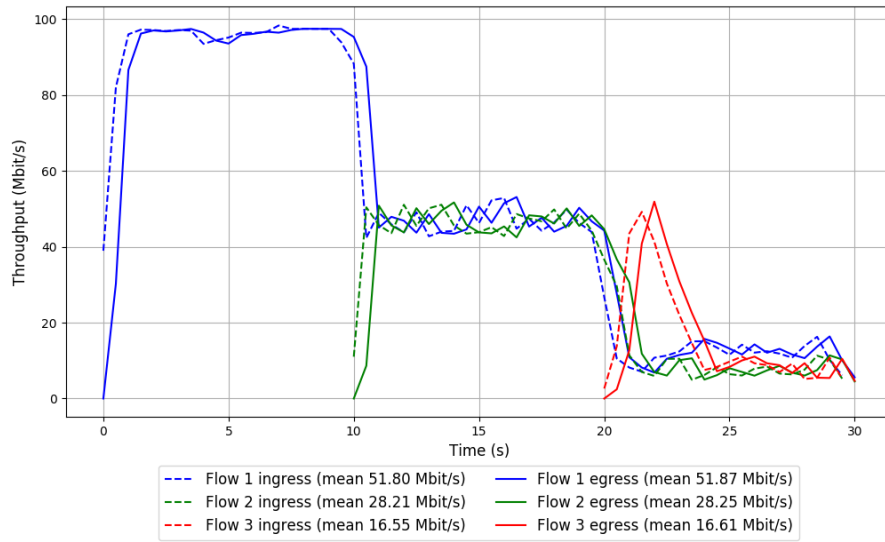
-- Flow 3:

Average throughput: 16.61 Mbit/s

95th percentile per-packet one-way delay: 25.522 ms

Loss rate: 0.31%

Run 4: Report of Muses_DecisionTree — Data Link

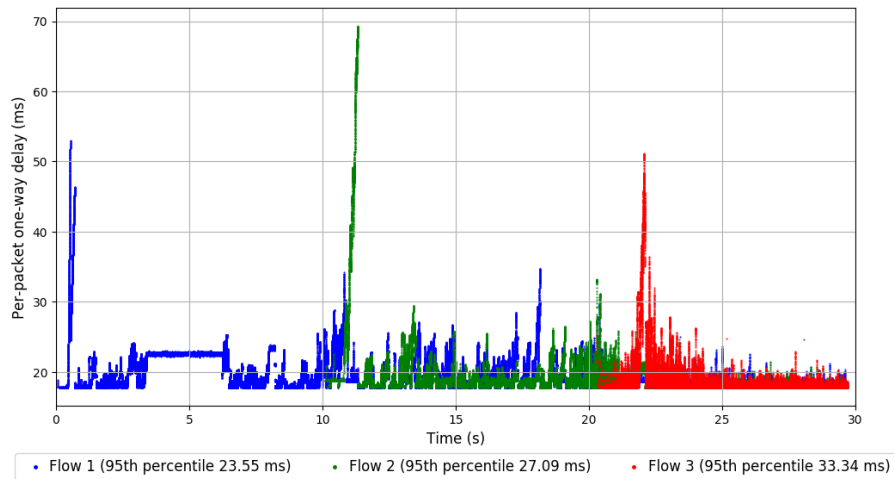
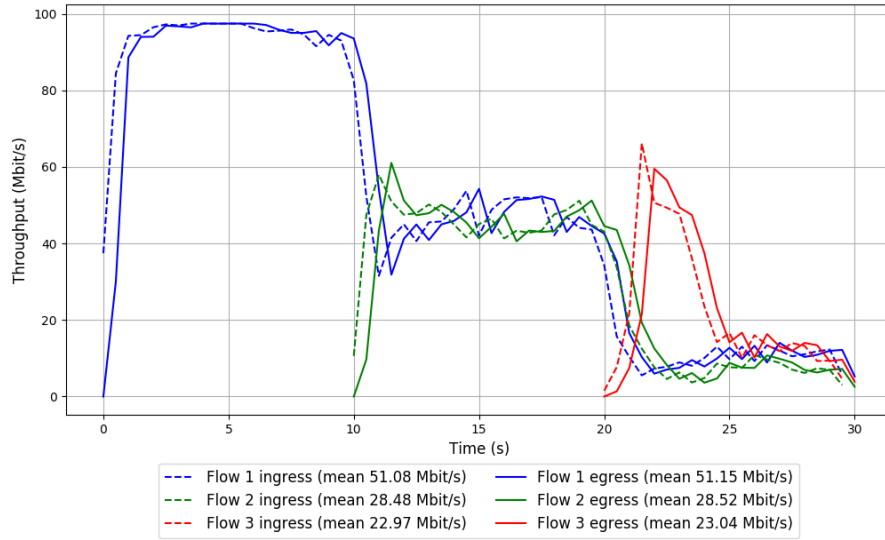


Run 5: Statistics of Muses_DecisionTree

Start at: 2019-09-19 01:08:58
End at: 2019-09-19 01:09:28
Local clock offset: -8.403 ms
Remote clock offset: -12.372 ms

Below is generated by plot.py at 2019-09-19 01:23:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.36 Mbit/s
95th percentile per-packet one-way delay: 24.911 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 51.15 Mbit/s
95th percentile per-packet one-way delay: 23.555 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 28.52 Mbit/s
95th percentile per-packet one-way delay: 27.088 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 23.04 Mbit/s
95th percentile per-packet one-way delay: 33.336 ms
Loss rate: 0.21%

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 23:01:32

End at: 2019-09-18 23:02:02

Local clock offset: 5.099 ms

Remote clock offset: 0.284 ms

Below is generated by plot.py at 2019-09-19 01:23:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 58.050 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 48.76 Mbit/s

95th percentile per-packet one-way delay: 70.379 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 33.76 Mbit/s

95th percentile per-packet one-way delay: 52.954 ms

Loss rate: 0.26%

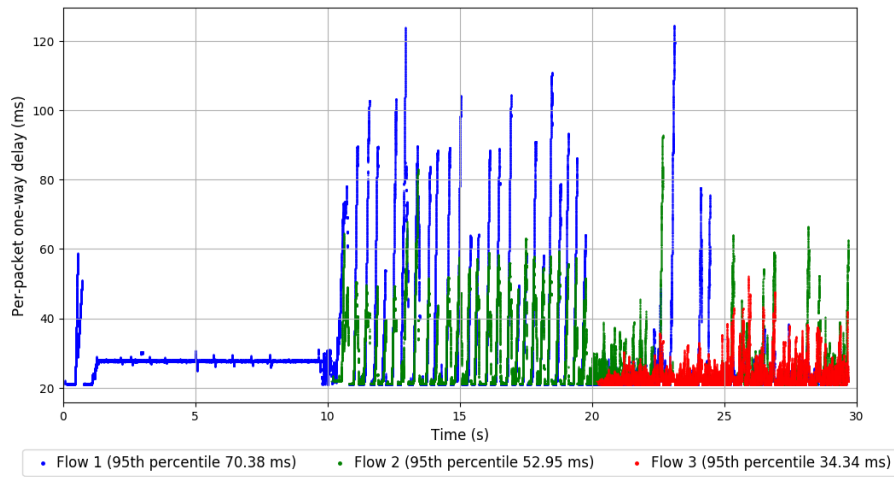
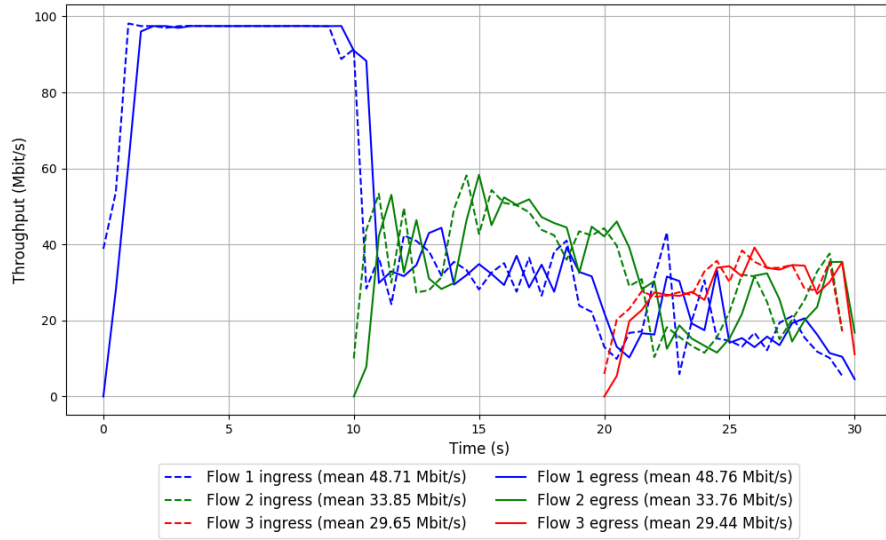
-- Flow 3:

Average throughput: 29.44 Mbit/s

95th percentile per-packet one-way delay: 34.342 ms

Loss rate: 1.25%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-18 23:31:46

End at: 2019-09-18 23:32:16

Local clock offset: 6.723 ms

Remote clock offset: 2.625 ms

Below is generated by plot.py at 2019-09-19 01:24:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.37 Mbit/s

95th percentile per-packet one-way delay: 52.332 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 48.95 Mbit/s

95th percentile per-packet one-way delay: 52.347 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 31.43 Mbit/s

95th percentile per-packet one-way delay: 57.032 ms

Loss rate: 0.10%

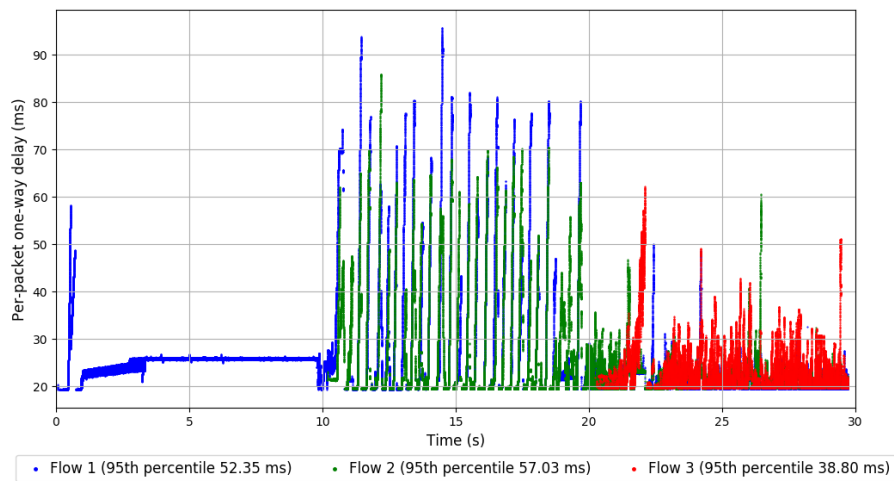
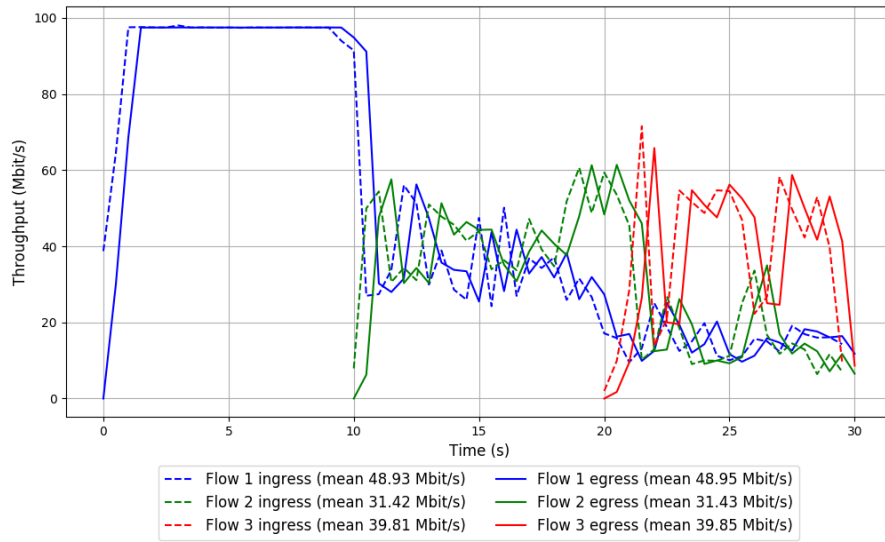
-- Flow 3:

Average throughput: 39.85 Mbit/s

95th percentile per-packet one-way delay: 38.797 ms

Loss rate: 0.44%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-19 00:01:22

End at: 2019-09-19 00:01:52

Local clock offset: 5.321 ms

Remote clock offset: 0.492 ms

Below is generated by plot.py at 2019-09-19 01:24:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.75 Mbit/s

95th percentile per-packet one-way delay: 57.607 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 51.77 Mbit/s

95th percentile per-packet one-way delay: 64.788 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 31.72 Mbit/s

95th percentile per-packet one-way delay: 48.262 ms

Loss rate: 0.12%

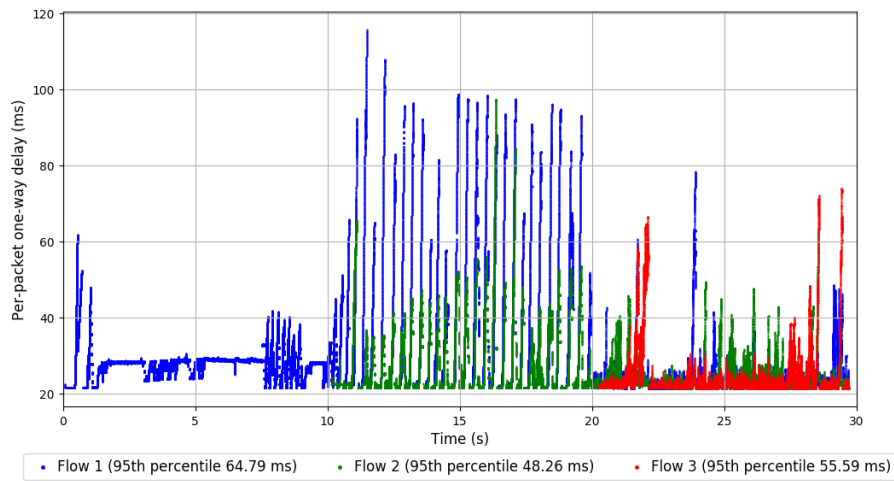
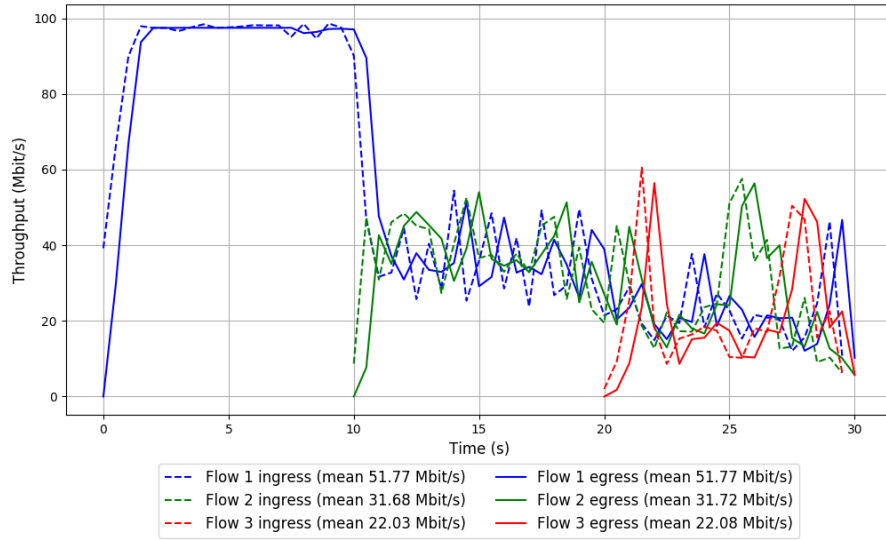
-- Flow 3:

Average throughput: 22.08 Mbit/s

95th percentile per-packet one-way delay: 55.589 ms

Loss rate: 0.33%

Run 3: Report of Muses_DecisionTreeH0 — Data Link

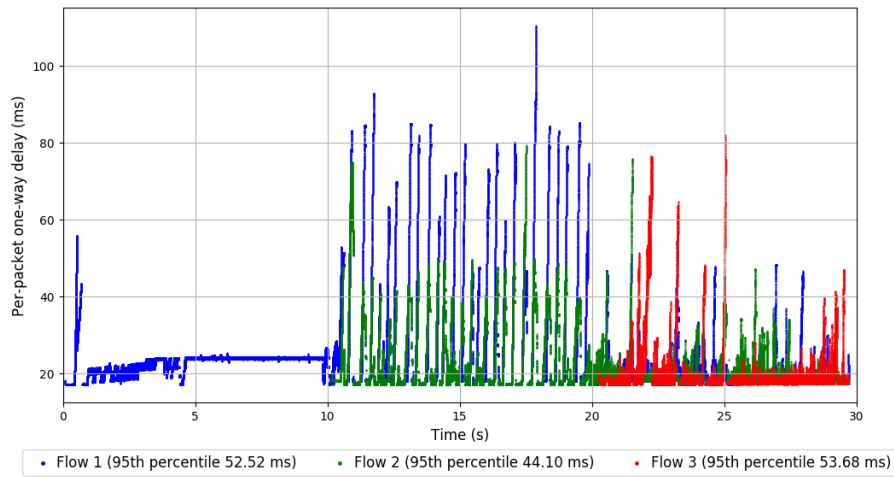
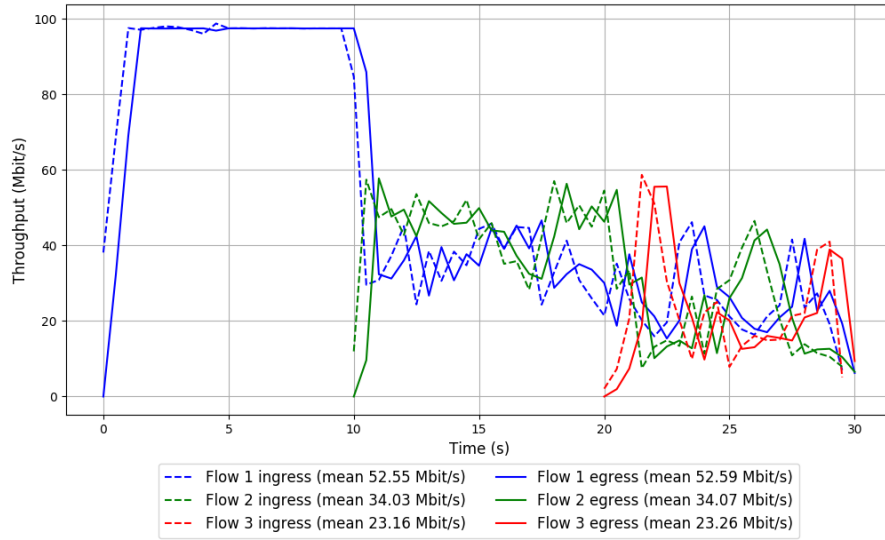


Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-19 00:31:07
End at: 2019-09-19 00:31:37
Local clock offset: 3.013 ms
Remote clock offset: -0.216 ms

Below is generated by plot.py at 2019-09-19 01:24:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.50 Mbit/s
95th percentile per-packet one-way delay: 48.517 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 52.59 Mbit/s
95th percentile per-packet one-way delay: 52.520 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 34.07 Mbit/s
95th percentile per-packet one-way delay: 44.102 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 23.26 Mbit/s
95th percentile per-packet one-way delay: 53.677 ms
Loss rate: 0.24%

Run 4: Report of Muses_DecisionTreeH0 — Data Link

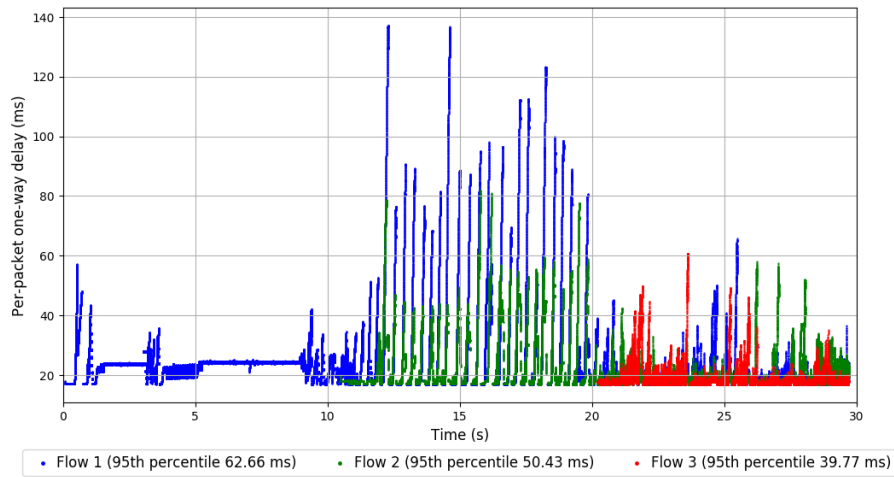
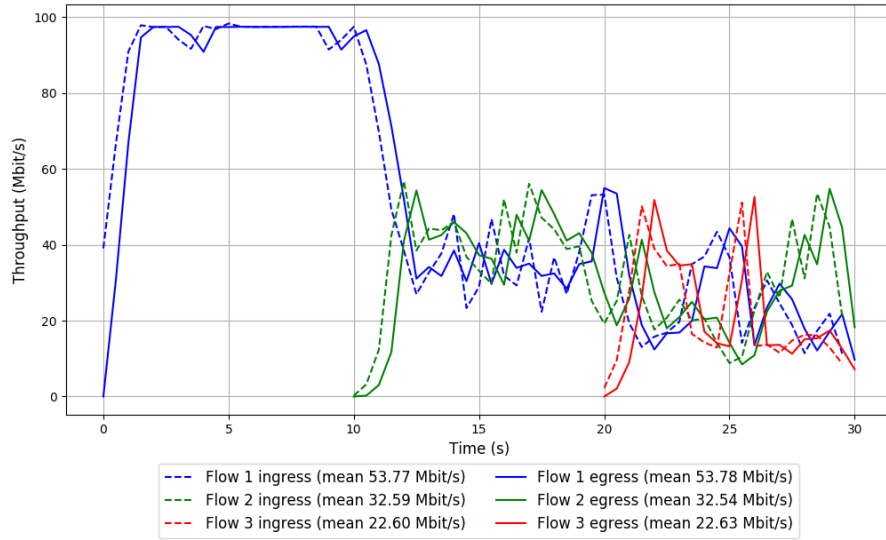


Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-09-19 01:01:18
End at: 2019-09-19 01:01:48
Local clock offset: 0.516 ms
Remote clock offset: -1.605 ms

```
# Below is generated by plot.py at 2019-09-19 01:24:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.16 Mbit/s
95th percentile per-packet one-way delay: 53.534 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 53.78 Mbit/s
95th percentile per-packet one-way delay: 62.662 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 32.54 Mbit/s
95th percentile per-packet one-way delay: 50.432 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 22.63 Mbit/s
95th percentile per-packet one-way delay: 39.774 ms
Loss rate: 0.43%
```

Run 5: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 22:45:08

End at: 2019-09-18 22:45:38

Local clock offset: 0.018 ms

Remote clock offset: 0.163 ms

Below is generated by plot.py at 2019-09-19 01:24:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.63 Mbit/s

95th percentile per-packet one-way delay: 21.637 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 56.86 Mbit/s

95th percentile per-packet one-way delay: 21.868 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 20.07 Mbit/s

95th percentile per-packet one-way delay: 18.891 ms

Loss rate: 0.12%

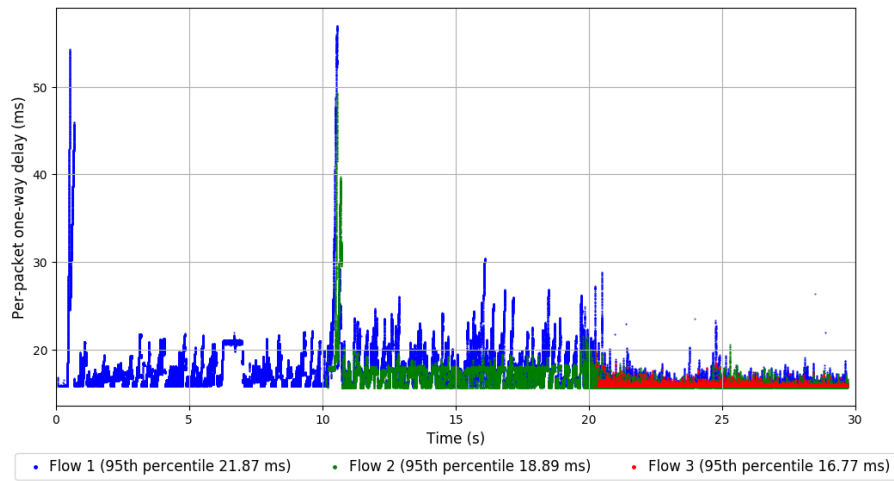
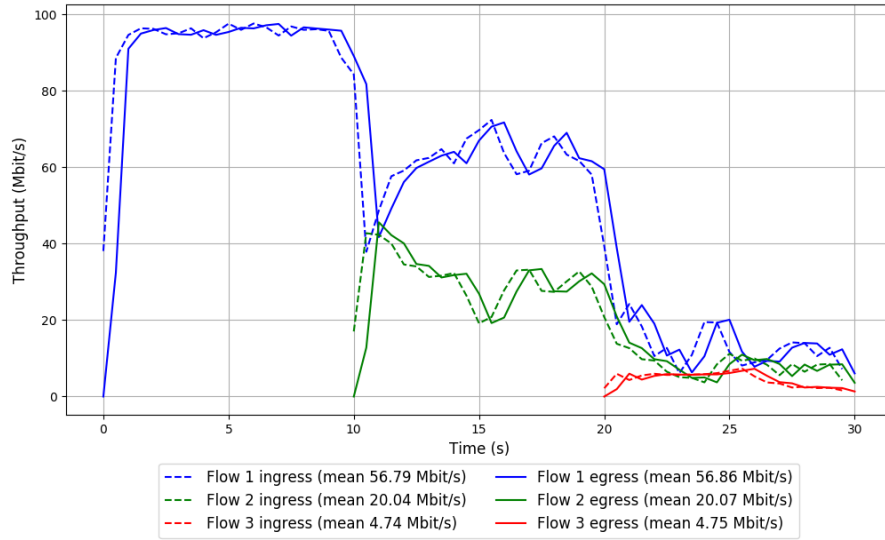
-- Flow 3:

Average throughput: 4.75 Mbit/s

95th percentile per-packet one-way delay: 16.766 ms

Loss rate: 0.41%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 23:15:24

End at: 2019-09-18 23:15:54

Local clock offset: 6.259 ms

Remote clock offset: 1.909 ms

Below is generated by plot.py at 2019-09-19 01:24:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.36 Mbit/s

95th percentile per-packet one-way delay: 28.962 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 26.370 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 28.96 Mbit/s

95th percentile per-packet one-way delay: 41.649 ms

Loss rate: 0.10%

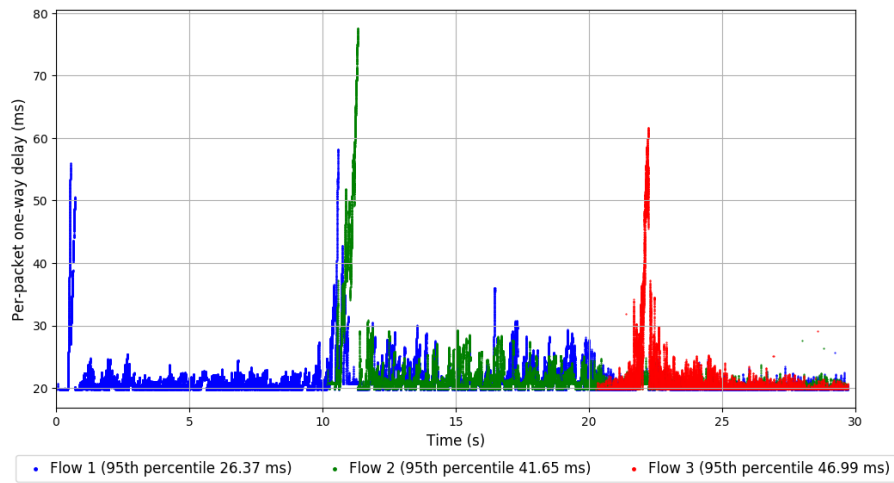
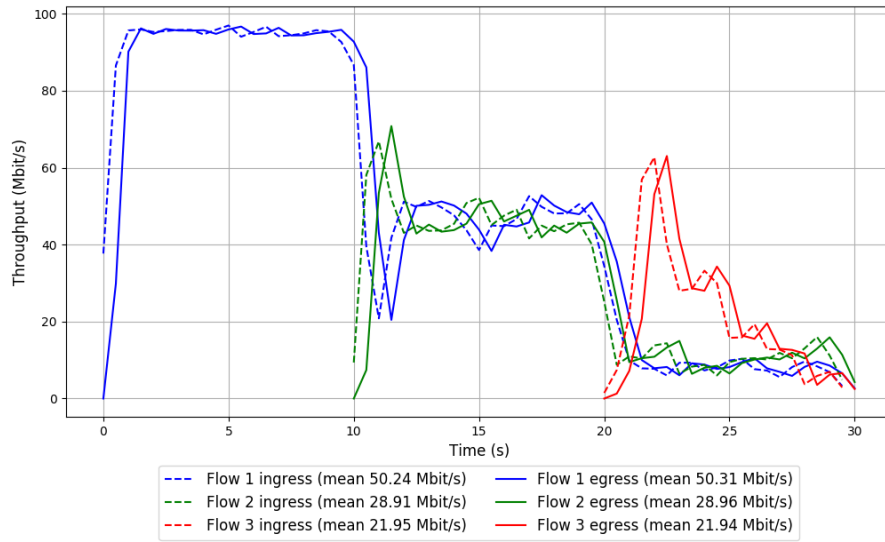
-- Flow 3:

Average throughput: 21.94 Mbit/s

95th percentile per-packet one-way delay: 46.990 ms

Loss rate: 0.58%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-18 23:45:20

End at: 2019-09-18 23:45:50

Local clock offset: 4.733 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2019-09-19 01:24:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.46 Mbit/s

95th percentile per-packet one-way delay: 31.227 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 50.49 Mbit/s

95th percentile per-packet one-way delay: 27.976 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 33.12 Mbit/s

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

Loss rate: 0.21%

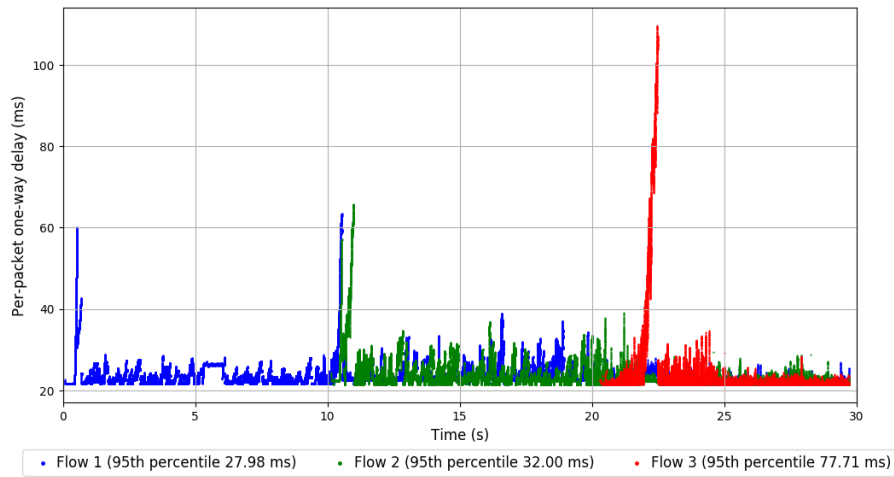
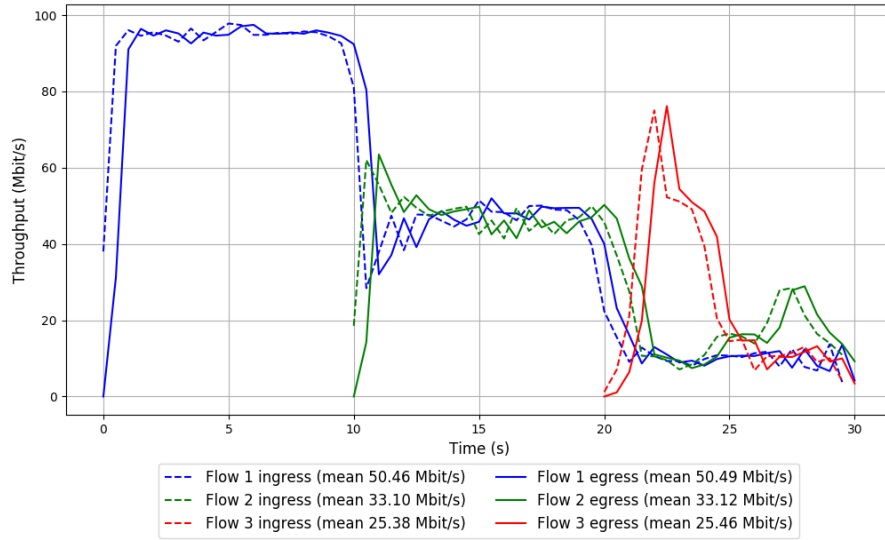
-- Flow 3:

Average throughput: 25.46 Mbit/s

95th percentile per-packet one-way delay: 77.714 ms

Loss rate: 0.24%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-19 00:15:04

End at: 2019-09-19 00:15:34

Local clock offset: 2.243 ms

Remote clock offset: 1.056 ms

Below is generated by plot.py at 2019-09-19 01:24:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.86 Mbit/s

95th percentile per-packet one-way delay: 25.754 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 51.28 Mbit/s

95th percentile per-packet one-way delay: 23.924 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 29.65 Mbit/s

95th percentile per-packet one-way delay: 26.709 ms

Loss rate: 0.17%

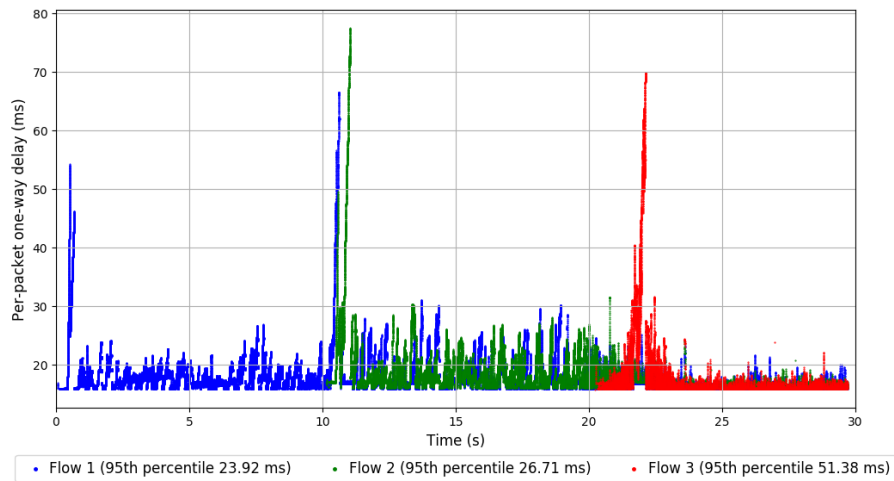
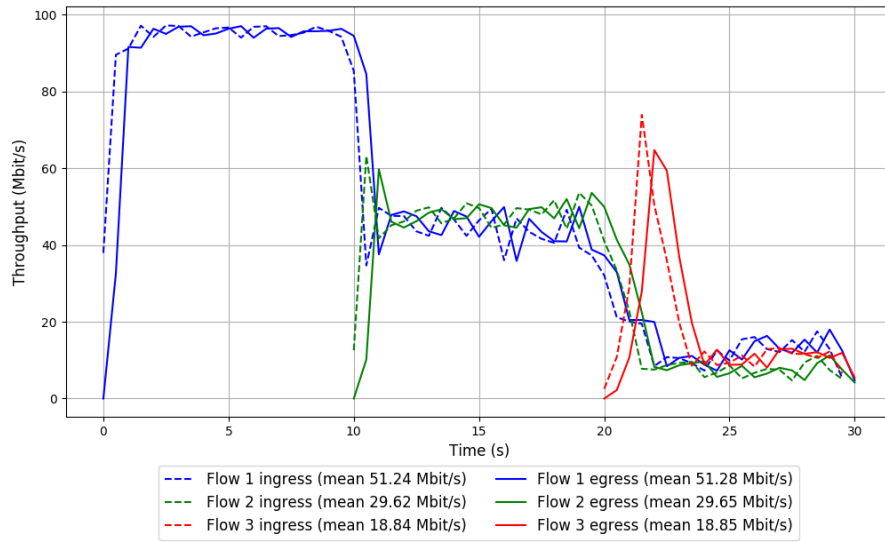
-- Flow 3:

Average throughput: 18.85 Mbit/s

95th percentile per-packet one-way delay: 51.383 ms

Loss rate: 0.45%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-09-19 00:44:47
End at: 2019-09-19 00:45:17
Local clock offset: 0.861 ms
Remote clock offset: -0.307 ms

Below is generated by plot.py at 2019-09-19 01:24:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.35 Mbit/s
95th percentile per-packet one-way delay: 22.350 ms
Loss rate: 0.08%

-- Flow 1:

Average throughput: 54.00 Mbit/s
95th percentile per-packet one-way delay: 22.720 ms
Loss rate: 0.08%

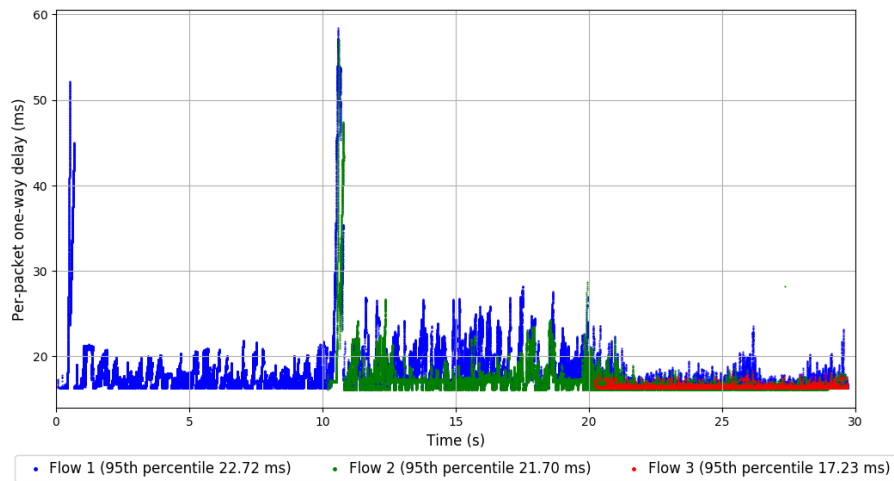
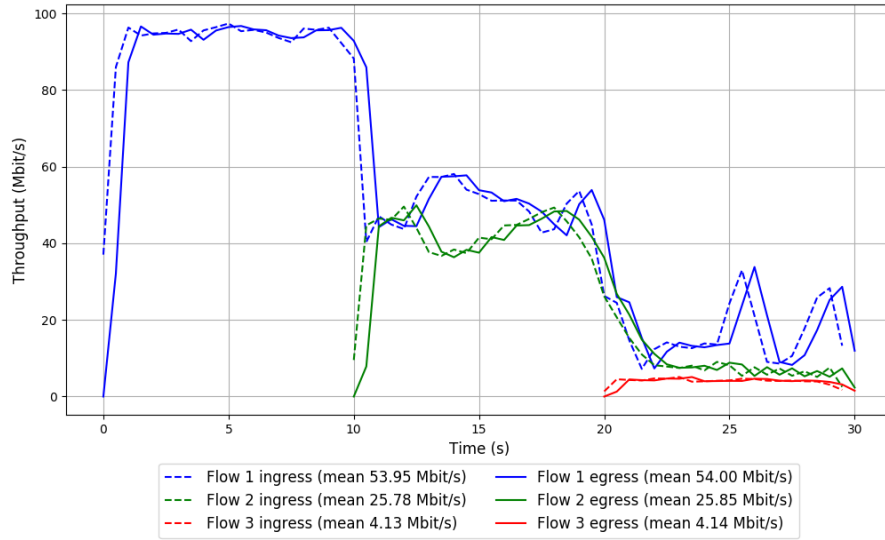
-- Flow 2:

Average throughput: 25.85 Mbit/s
95th percentile per-packet one-way delay: 21.704 ms
Loss rate: 0.06%

-- Flow 3:

Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 17.229 ms
Loss rate: 0.41%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-09-18 22:53:52

End at: 2019-09-18 22:54:22

Local clock offset: 0.623 ms

Remote clock offset: 1.14 ms

Below is generated by plot.py at 2019-09-19 01:25:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.49 Mbit/s

95th percentile per-packet one-way delay: 1575.127 ms

Loss rate: 10.51%

-- Flow 1:

Average throughput: 63.48 Mbit/s

95th percentile per-packet one-way delay: 1567.908 ms

Loss rate: 9.80%

-- Flow 2:

Average throughput: 33.31 Mbit/s

95th percentile per-packet one-way delay: 2929.964 ms

Loss rate: 15.02%

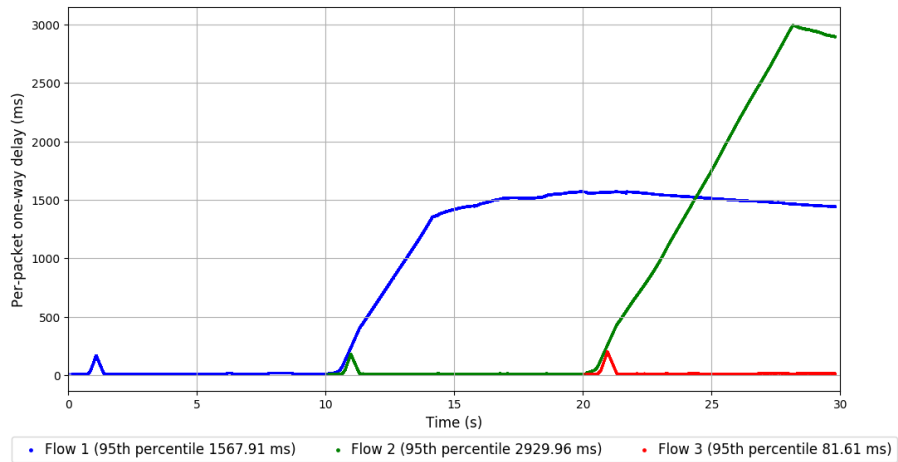
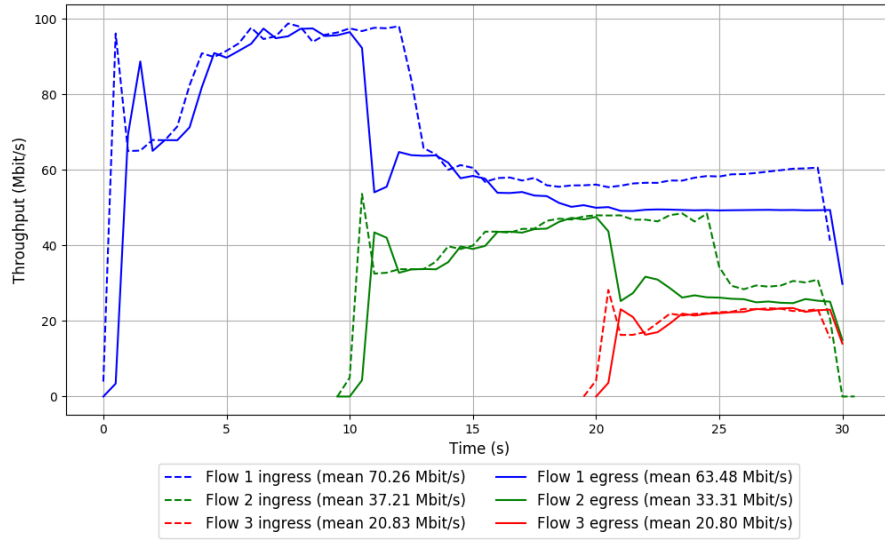
-- Flow 3:

Average throughput: 20.80 Mbit/s

95th percentile per-packet one-way delay: 81.612 ms

Loss rate: 0.68%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-09-18 23:24:06

End at: 2019-09-18 23:24:36

Local clock offset: 2.245 ms

Remote clock offset: 1.489 ms

Below is generated by plot.py at 2019-09-19 01:25:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.76 Mbit/s

95th percentile per-packet one-way delay: 2121.433 ms

Loss rate: 11.47%

-- Flow 1:

Average throughput: 55.17 Mbit/s

95th percentile per-packet one-way delay: 2141.933 ms

Loss rate: 10.97%

-- Flow 2:

Average throughput: 36.80 Mbit/s

95th percentile per-packet one-way delay: 2034.939 ms

Loss rate: 13.73%

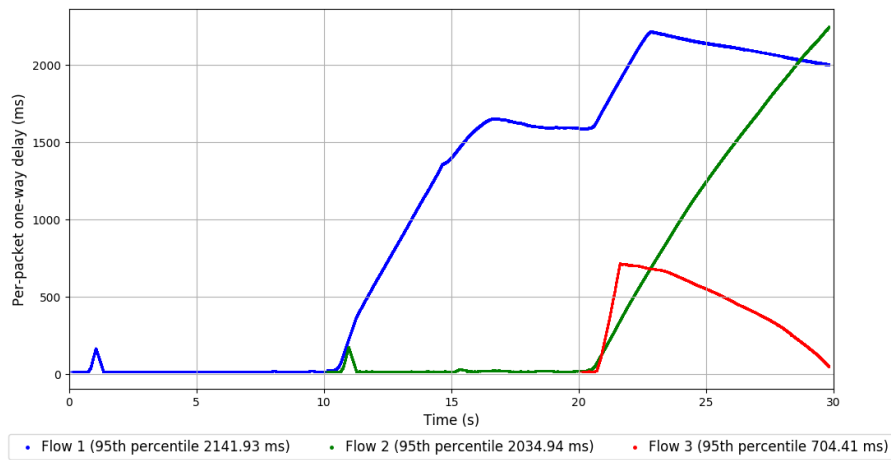
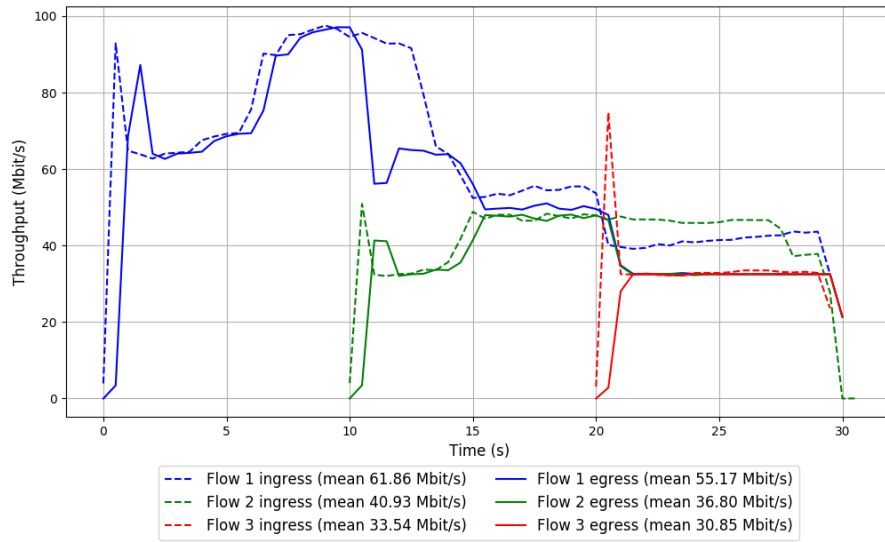
-- Flow 3:

Average throughput: 30.85 Mbit/s

95th percentile per-packet one-way delay: 704.407 ms

Loss rate: 8.47%

Run 2: Report of PCC-Allegro — Data Link

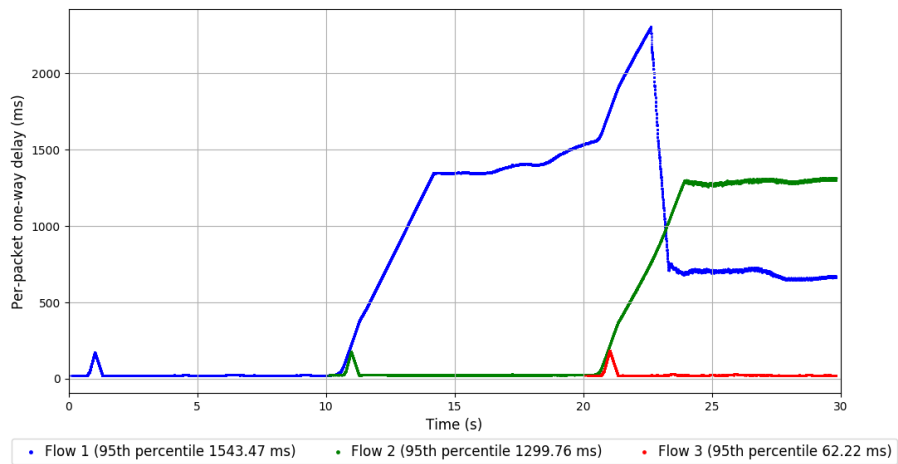
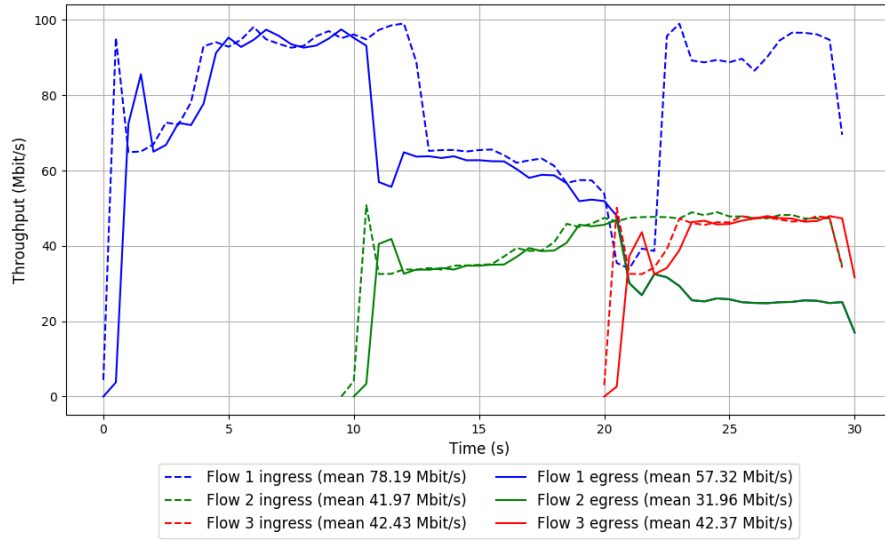


Run 3: Statistics of PCC-Allegro

Start at: 2019-09-18 23:53:49
End at: 2019-09-18 23:54:19
Local clock offset: 0.663 ms
Remote clock offset: -2.608 ms

Below is generated by plot.py at 2019-09-19 01:25:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.47 Mbit/s
95th percentile per-packet one-way delay: 1473.885 ms
Loss rate: 23.13%
-- Flow 1:
Average throughput: 57.32 Mbit/s
95th percentile per-packet one-way delay: 1543.466 ms
Loss rate: 26.83%
-- Flow 2:
Average throughput: 31.96 Mbit/s
95th percentile per-packet one-way delay: 1299.755 ms
Loss rate: 24.02%
-- Flow 3:
Average throughput: 42.37 Mbit/s
95th percentile per-packet one-way delay: 62.219 ms
Loss rate: 0.66%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-09-19 00:23:45

End at: 2019-09-19 00:24:15

Local clock offset: 2.199 ms

Remote clock offset: 0.966 ms

Below is generated by plot.py at 2019-09-19 01:25:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.18 Mbit/s

95th percentile per-packet one-way delay: 2320.927 ms

Loss rate: 6.93%

-- Flow 1:

Average throughput: 56.58 Mbit/s

95th percentile per-packet one-way delay: 2351.316 ms

Loss rate: 10.74%

-- Flow 2:

Average throughput: 44.67 Mbit/s

95th percentile per-packet one-way delay: 24.444 ms

Loss rate: 0.26%

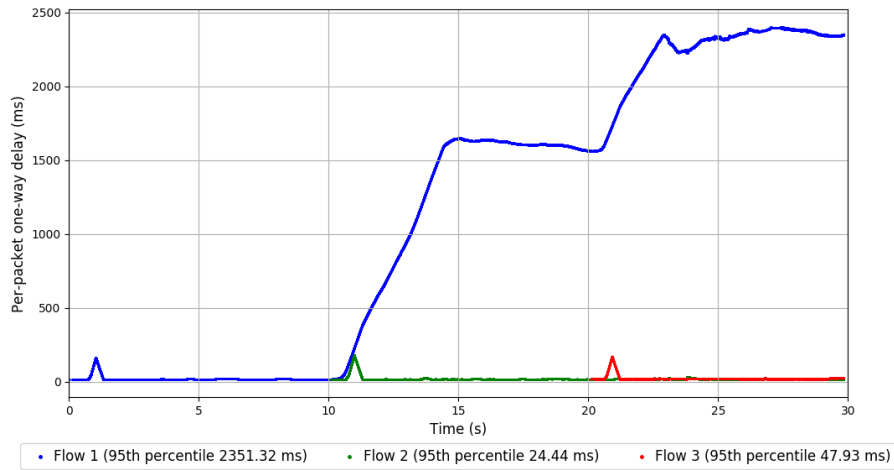
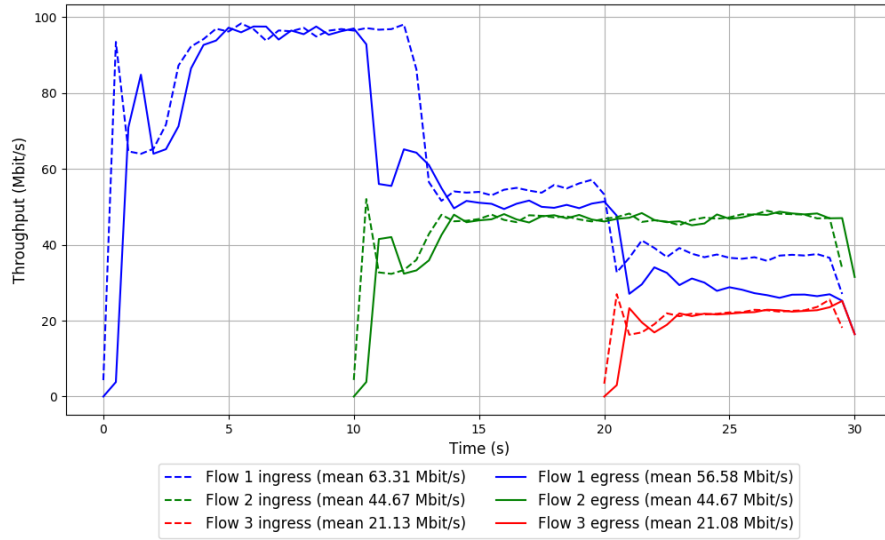
-- Flow 3:

Average throughput: 21.08 Mbit/s

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

Loss rate: 0.75%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-09-19 00:53:41

End at: 2019-09-19 00:54:11

Local clock offset: 4.362 ms

Remote clock offset: -1.134 ms

Below is generated by plot.py at 2019-09-19 01:25:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 2105.467 ms

Loss rate: 10.58%

-- Flow 1:

Average throughput: 58.61 Mbit/s

95th percentile per-packet one-way delay: 2149.876 ms

Loss rate: 10.37%

-- Flow 2:

Average throughput: 36.90 Mbit/s

95th percentile per-packet one-way delay: 1570.926 ms

Loss rate: 12.19%

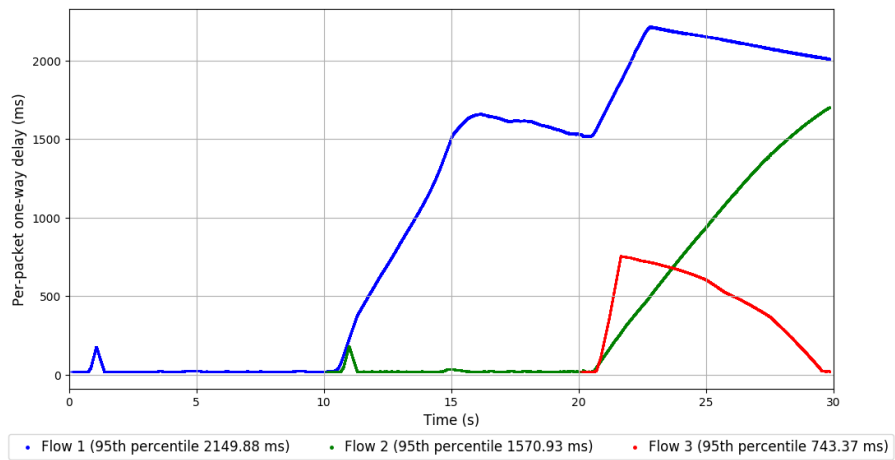
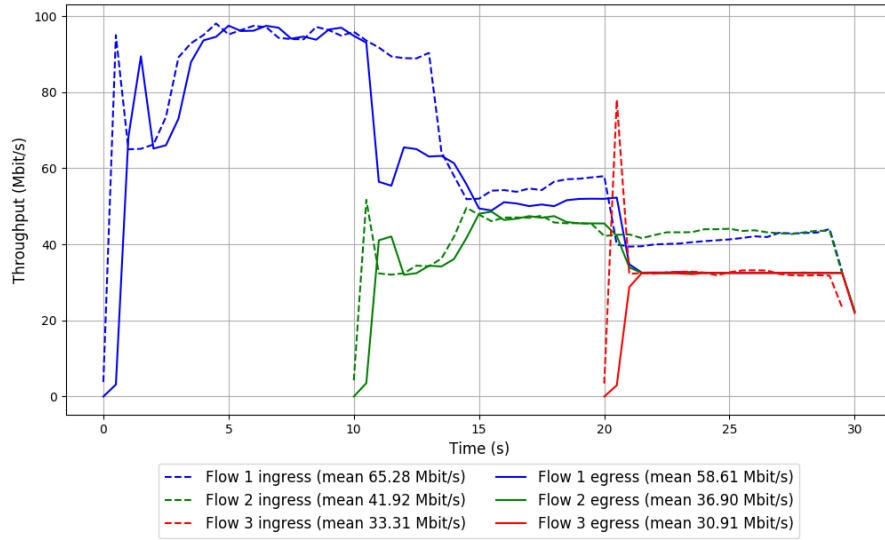
-- Flow 3:

Average throughput: 30.91 Mbit/s

95th percentile per-packet one-way delay: 743.373 ms

Loss rate: 7.70%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-09-18 22:56:22

End at: 2019-09-18 22:56:52

Local clock offset: 0.284 ms

Remote clock offset: 0.867 ms

Below is generated by plot.py at 2019-09-19 01:26:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 1379.817 ms

Loss rate: 21.88%

-- Flow 1:

Average throughput: 57.88 Mbit/s

95th percentile per-packet one-way delay: 922.453 ms

Loss rate: 26.91%

-- Flow 2:

Average throughput: 36.82 Mbit/s

95th percentile per-packet one-way delay: 1503.359 ms

Loss rate: 14.74%

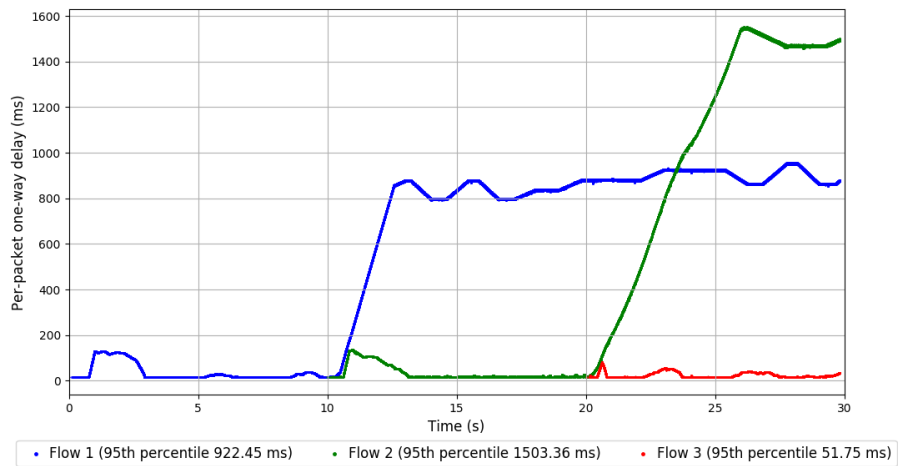
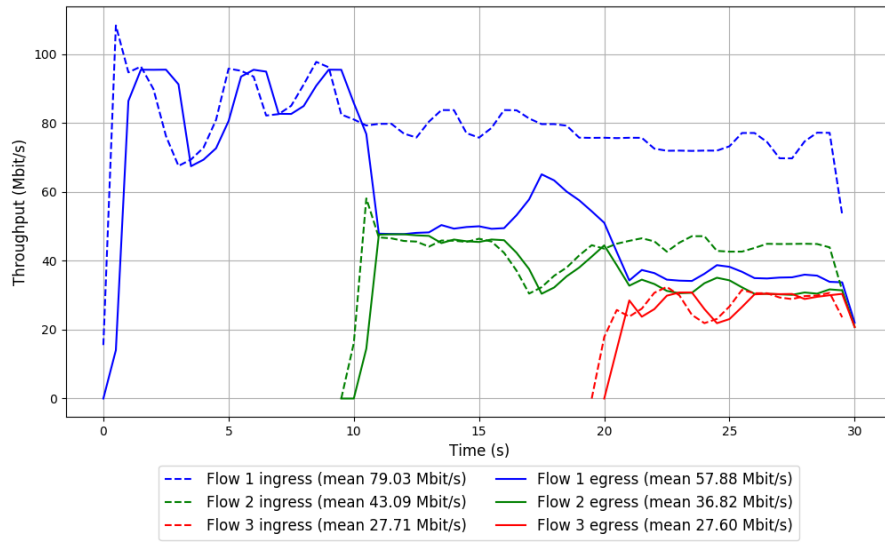
-- Flow 3:

Average throughput: 27.60 Mbit/s

95th percentile per-packet one-way delay: 51.750 ms

Loss rate: 0.92%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-09-18 23:26:43

End at: 2019-09-18 23:27:13

Local clock offset: 7.283 ms

Remote clock offset: 0.792 ms

Below is generated by plot.py at 2019-09-19 01:27:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 748.293 ms

Loss rate: 29.39%

-- Flow 1:

Average throughput: 54.09 Mbit/s

95th percentile per-packet one-way delay: 713.088 ms

Loss rate: 37.88%

-- Flow 2:

Average throughput: 35.26 Mbit/s

95th percentile per-packet one-way delay: 970.268 ms

Loss rate: 17.16%

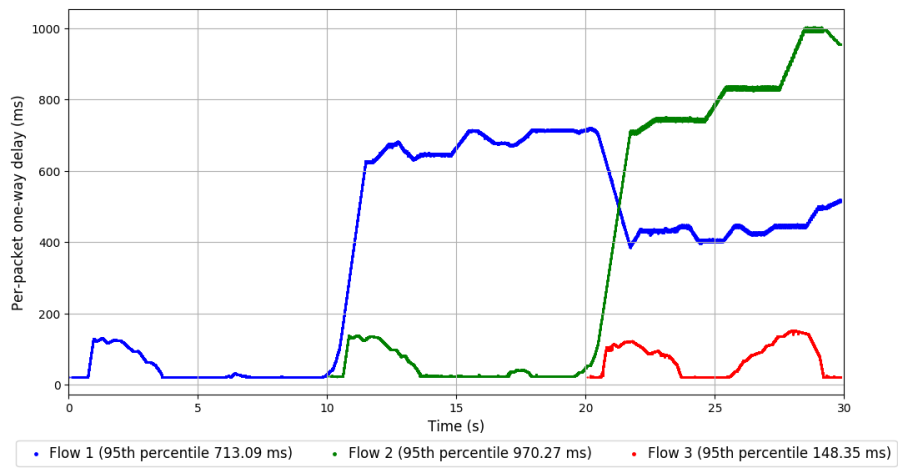
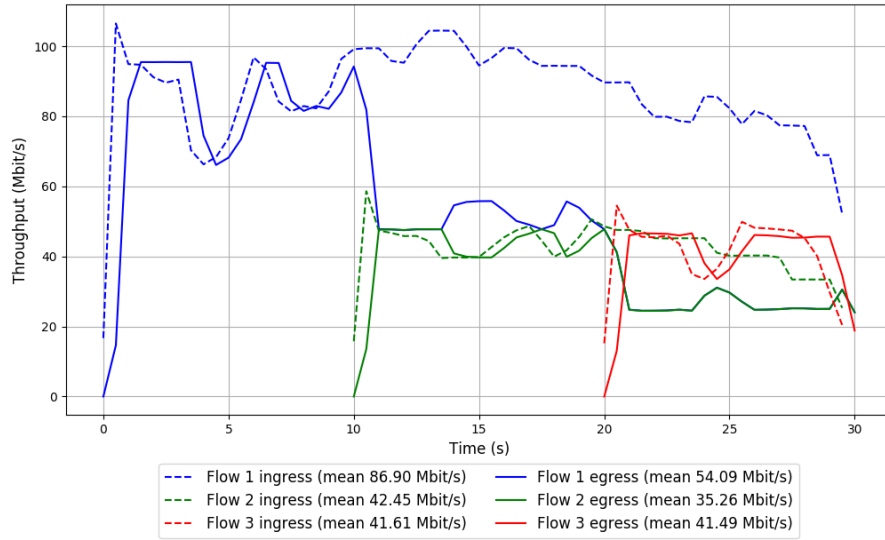
-- Flow 3:

Average throughput: 41.49 Mbit/s

95th percentile per-packet one-way delay: 148.355 ms

Loss rate: 0.90%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-09-18 23:56:23

End at: 2019-09-18 23:56:53

Local clock offset: 0.87 ms

Remote clock offset: 0.807 ms

Below is generated by plot.py at 2019-09-19 01:27:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.45 Mbit/s

95th percentile per-packet one-way delay: 1176.903 ms

Loss rate: 15.66%

-- Flow 1:

Average throughput: 58.44 Mbit/s

95th percentile per-packet one-way delay: 1050.835 ms

Loss rate: 19.46%

-- Flow 2:

Average throughput: 37.95 Mbit/s

95th percentile per-packet one-way delay: 1619.141 ms

Loss rate: 10.63%

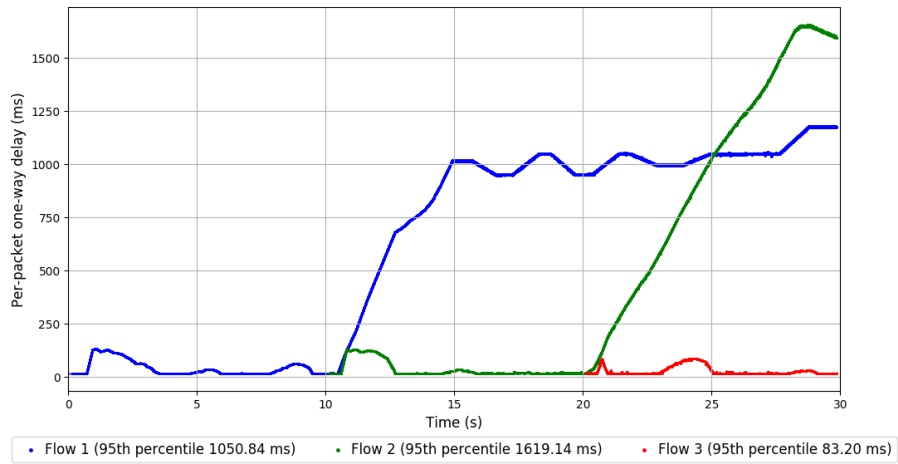
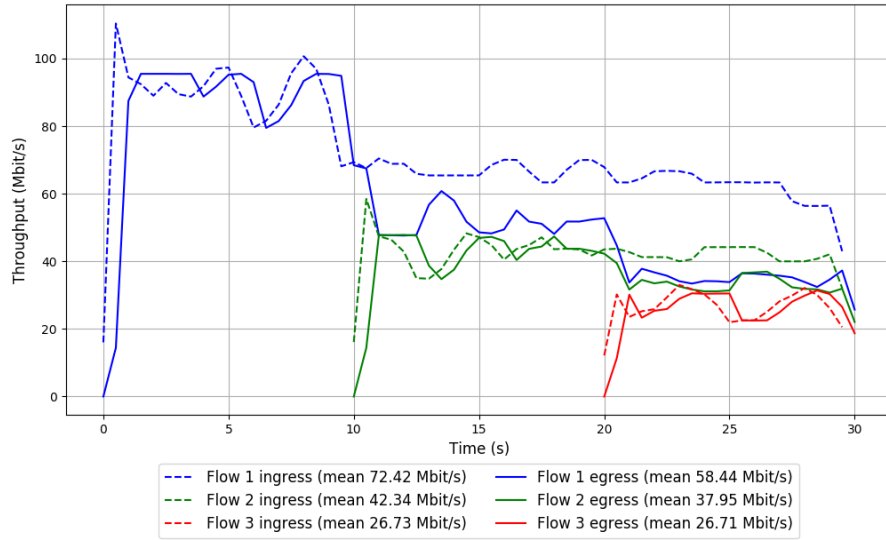
-- Flow 3:

Average throughput: 26.71 Mbit/s

95th percentile per-packet one-way delay: 83.205 ms

Loss rate: 0.61%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-09-19 00:26:10

End at: 2019-09-19 00:26:40

Local clock offset: 2.705 ms

Remote clock offset: 0.689 ms

Below is generated by plot.py at 2019-09-19 01:27:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.10 Mbit/s

95th percentile per-packet one-way delay: 1417.117 ms

Loss rate: 19.82%

-- Flow 1:

Average throughput: 58.61 Mbit/s

95th percentile per-packet one-way delay: 1136.581 ms

Loss rate: 23.41%

-- Flow 2:

Average throughput: 38.49 Mbit/s

95th percentile per-packet one-way delay: 1592.127 ms

Loss rate: 14.18%

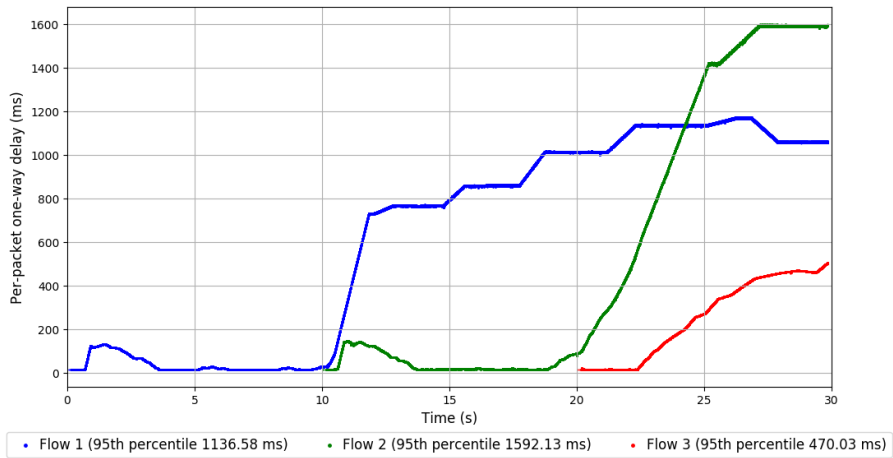
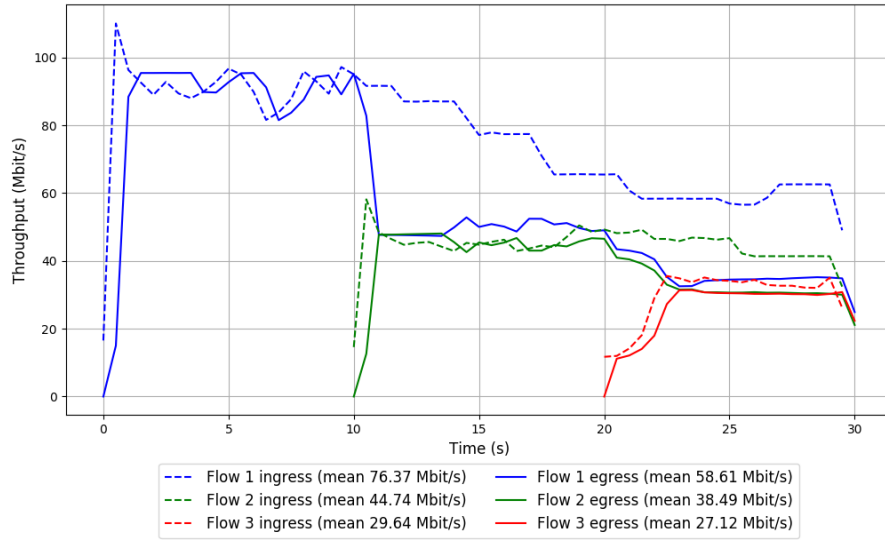
-- Flow 3:

Average throughput: 27.12 Mbit/s

95th percentile per-packet one-way delay: 470.032 ms

Loss rate: 8.96%

Run 4: Report of PCC-Expr — Data Link

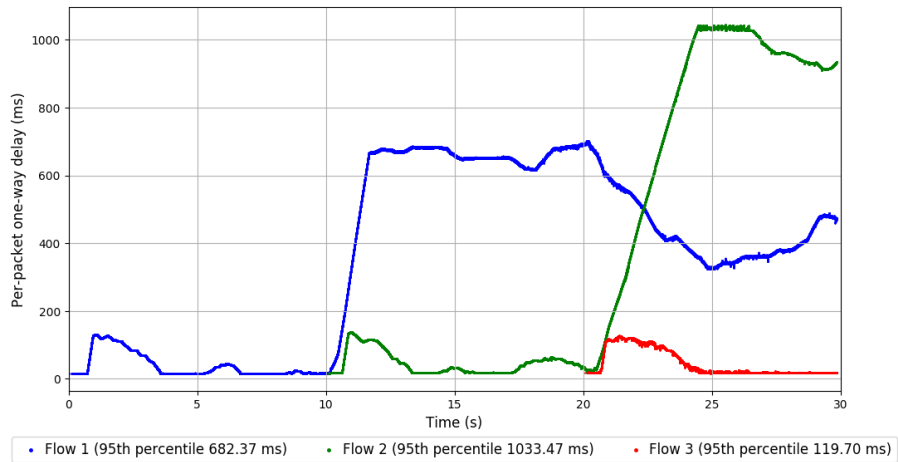
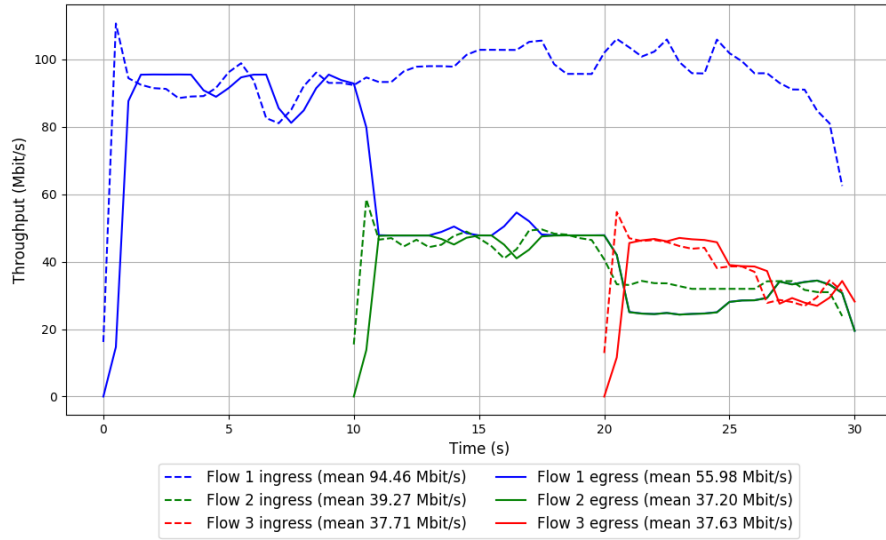


Run 5: Statistics of PCC-Expr

Start at: 2019-09-19 00:56:08
End at: 2019-09-19 00:56:38
Local clock offset: 0.307 ms
Remote clock offset: -0.404 ms

```
# Below is generated by plot.py at 2019-09-19 01:27:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.08 Mbit/s
95th percentile per-packet one-way delay: 934.871 ms
Loss rate: 30.18%
-- Flow 1:
Average throughput: 55.98 Mbit/s
95th percentile per-packet one-way delay: 682.370 ms
Loss rate: 40.87%
-- Flow 2:
Average throughput: 37.20 Mbit/s
95th percentile per-packet one-way delay: 1033.471 ms
Loss rate: 5.55%
-- Flow 3:
Average throughput: 37.63 Mbit/s
95th percentile per-packet one-way delay: 119.701 ms
Loss rate: 0.74%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-09-18 22:57:53

End at: 2019-09-18 22:58:23

Local clock offset: 4.673 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2019-09-19 01:27:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 45.203 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 46.89 Mbit/s

95th percentile per-packet one-way delay: 50.103 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 46.33 Mbit/s

95th percentile per-packet one-way delay: 29.883 ms

Loss rate: 0.32%

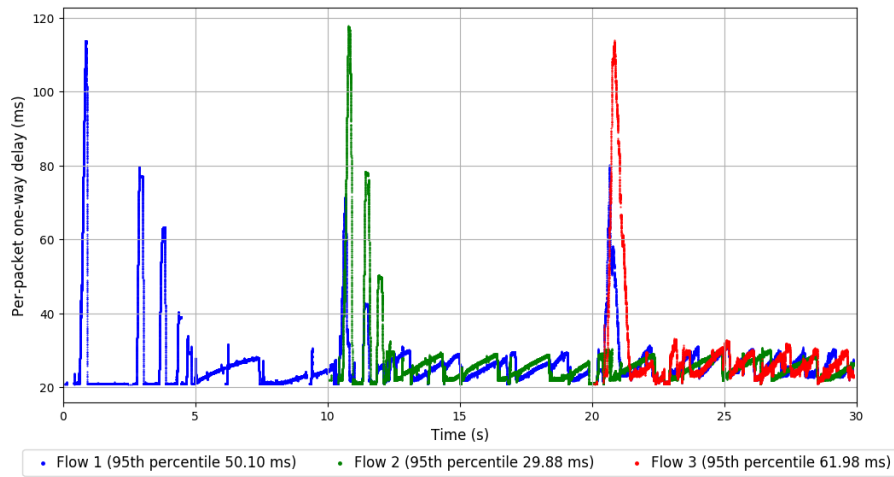
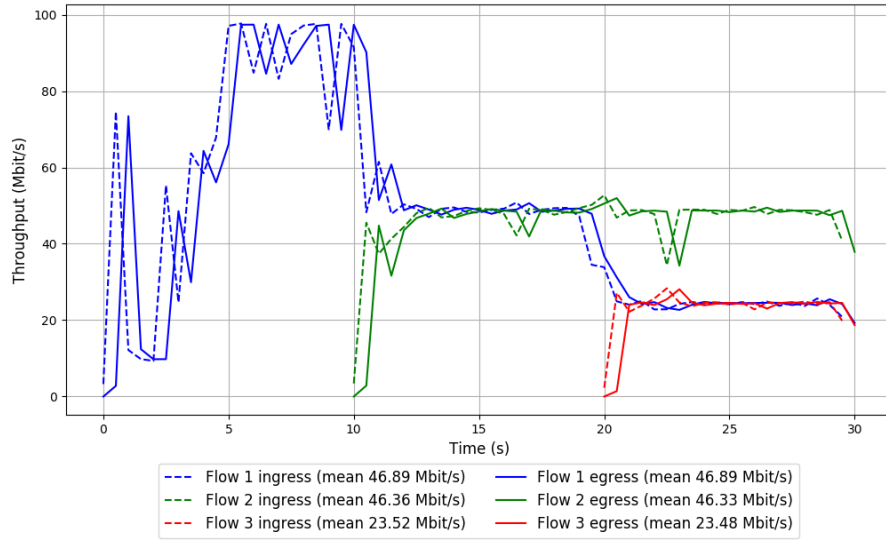
-- Flow 3:

Average throughput: 23.48 Mbit/s

95th percentile per-packet one-way delay: 61.976 ms

Loss rate: 0.67%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-09-18 23:28:09

End at: 2019-09-18 23:28:39

Local clock offset: 3.249 ms

Remote clock offset: 1.444 ms

Below is generated by plot.py at 2019-09-19 01:27:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.18 Mbit/s

95th percentile per-packet one-way delay: 40.227 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 48.58 Mbit/s

95th percentile per-packet one-way delay: 44.283 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 46.21 Mbit/s

95th percentile per-packet one-way delay: 25.344 ms

Loss rate: 0.32%

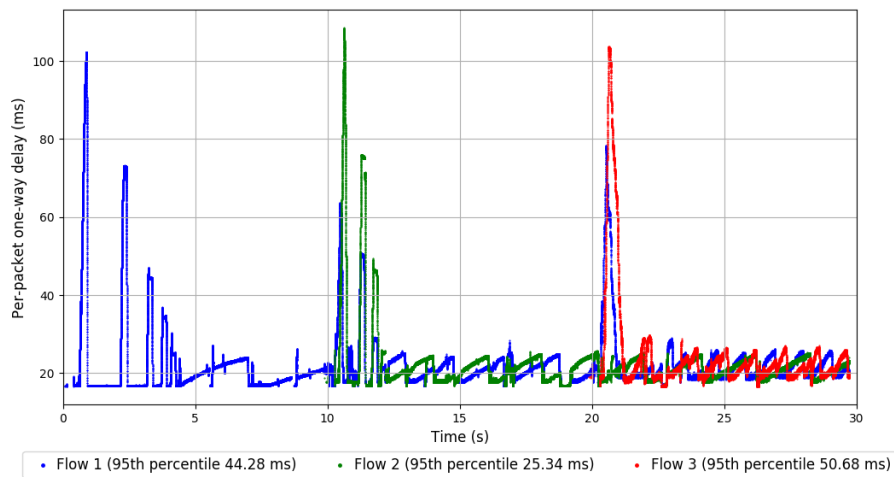
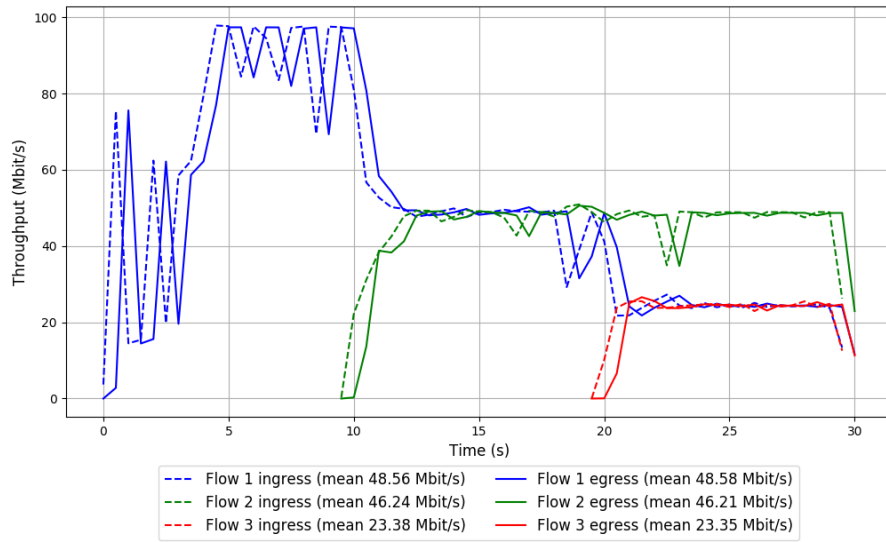
-- Flow 3:

Average throughput: 23.35 Mbit/s

95th percentile per-packet one-way delay: 50.677 ms

Loss rate: 0.66%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-09-18 23:57:45

End at: 2019-09-18 23:58:15

Local clock offset: 1.236 ms

Remote clock offset: 0.444 ms

Below is generated by plot.py at 2019-09-19 01:27:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.90 Mbit/s

95th percentile per-packet one-way delay: 39.592 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 55.79 Mbit/s

95th percentile per-packet one-way delay: 35.967 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 35.27 Mbit/s

95th percentile per-packet one-way delay: 42.694 ms

Loss rate: 0.24%

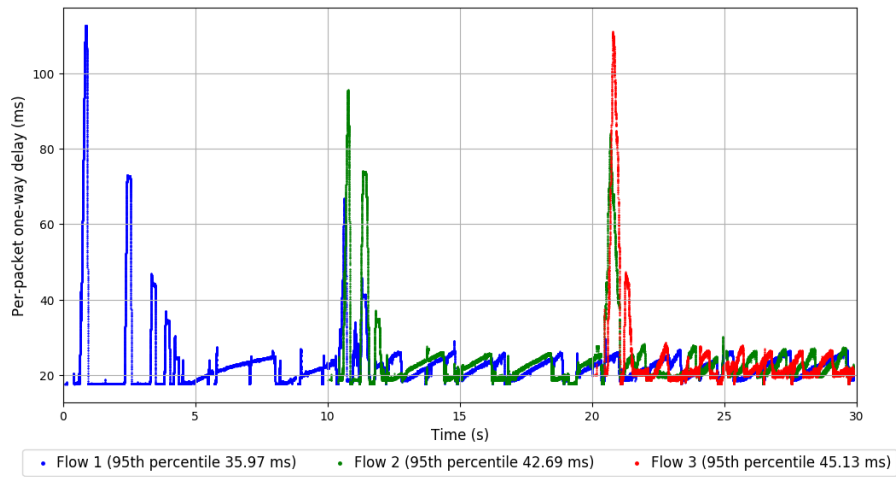
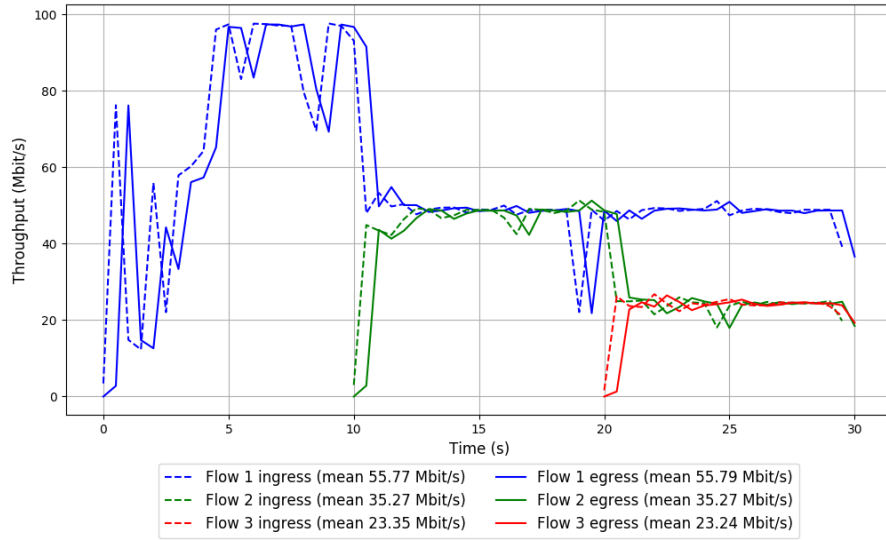
-- Flow 3:

Average throughput: 23.24 Mbit/s

95th percentile per-packet one-way delay: 45.129 ms

Loss rate: 0.99%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-09-19 00:27:30

End at: 2019-09-19 00:28:00

Local clock offset: 1.893 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2019-09-19 01:27:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.39 Mbit/s

95th percentile per-packet one-way delay: 40.609 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 56.94 Mbit/s

95th percentile per-packet one-way delay: 35.355 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 34.26 Mbit/s

95th percentile per-packet one-way delay: 42.885 ms

Loss rate: 0.29%

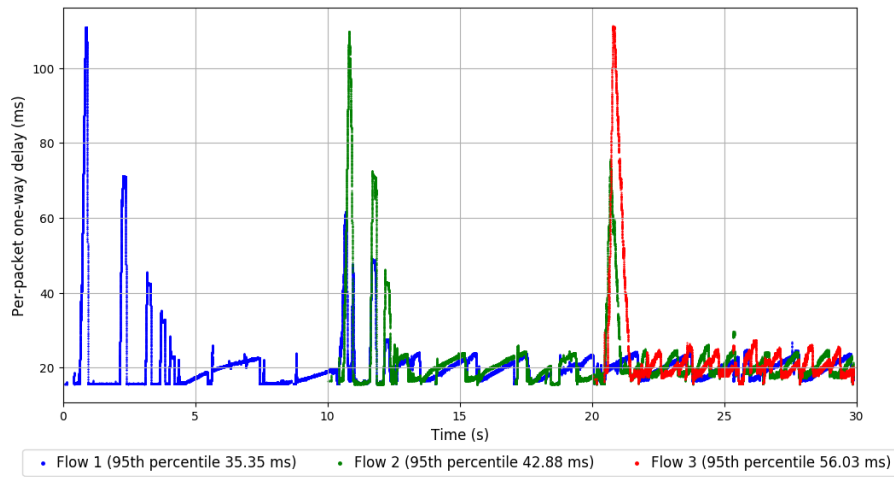
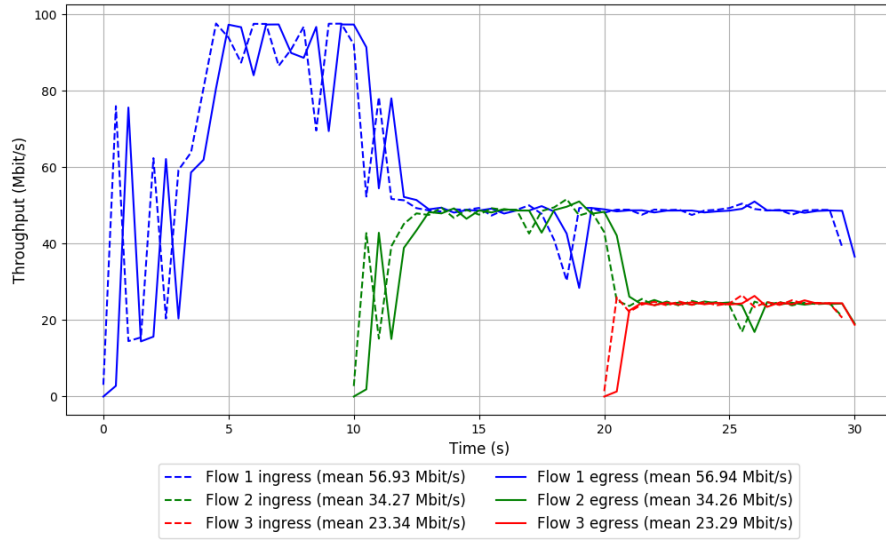
-- Flow 3:

Average throughput: 23.29 Mbit/s

95th percentile per-packet one-way delay: 56.029 ms

Loss rate: 0.73%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-09-19 00:57:35
End at: 2019-09-19 00:58:05
Local clock offset: 3.657 ms
Remote clock offset: -1.437 ms

Below is generated by plot.py at 2019-09-19 01:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.05 Mbit/s
95th percentile per-packet one-way delay: 43.981 ms
Loss rate: 0.28%

-- Flow 1:

Average throughput: 56.71 Mbit/s
95th percentile per-packet one-way delay: 38.404 ms
Loss rate: 0.18%

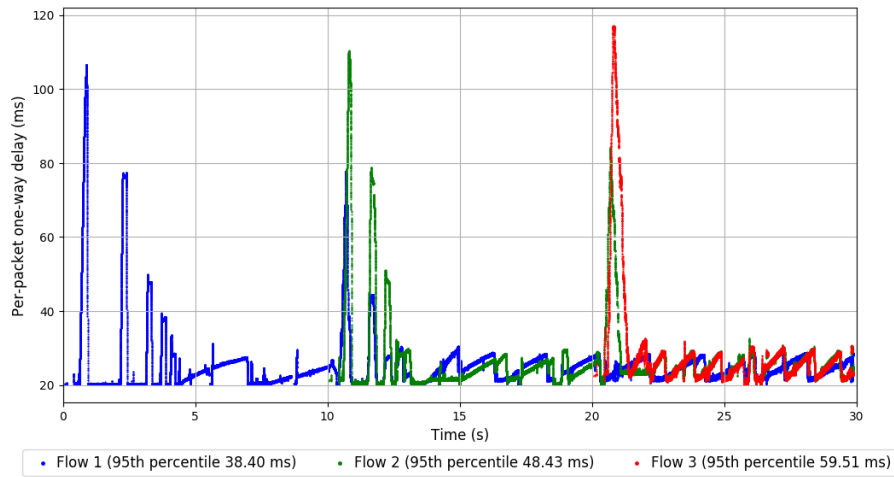
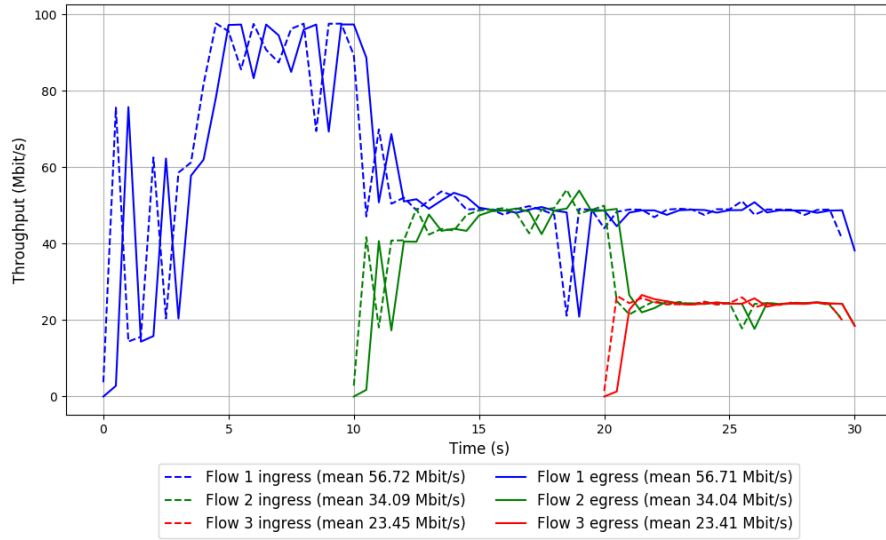
-- Flow 2:

Average throughput: 34.04 Mbit/s
95th percentile per-packet one-way delay: 48.429 ms
Loss rate: 0.39%

-- Flow 3:

Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 59.511 ms
Loss rate: 0.69%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-09-18 23:10:30

End at: 2019-09-18 23:11:00

Local clock offset: 2.444 ms

Remote clock offset: 1.432 ms

Below is generated by plot.py at 2019-09-19 01:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 16.638 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 16.606 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 16.656 ms

Loss rate: 0.19%

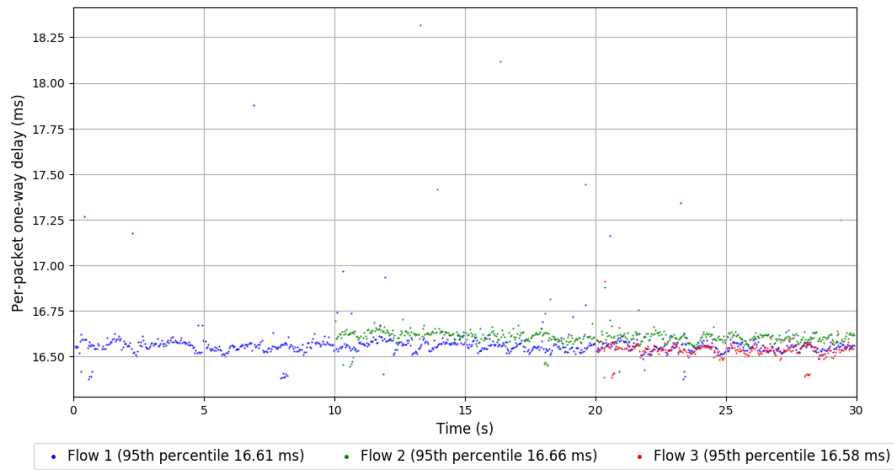
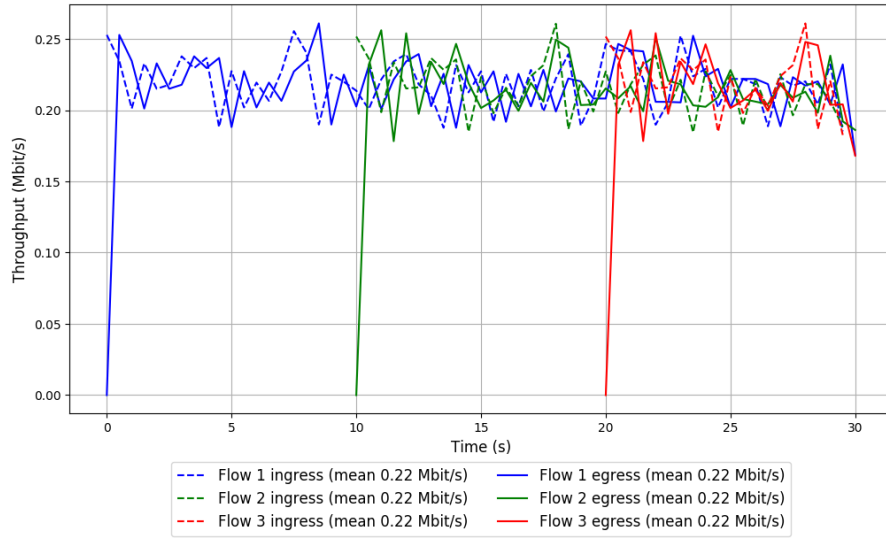
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 16.576 ms

Loss rate: 0.70%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-09-18 23:40:32

End at: 2019-09-18 23:41:02

Local clock offset: 5.946 ms

Remote clock offset: 1.323 ms

Below is generated by plot.py at 2019-09-19 01:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 21.350 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 21.284 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 21.367 ms

Loss rate: 0.19%

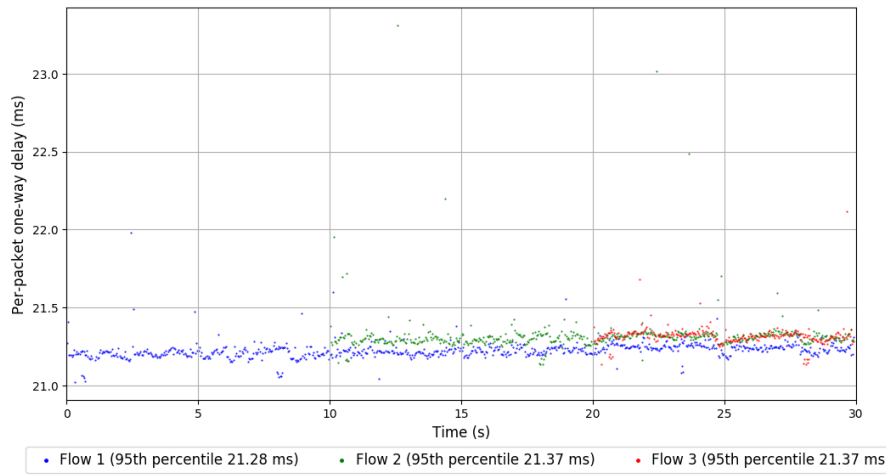
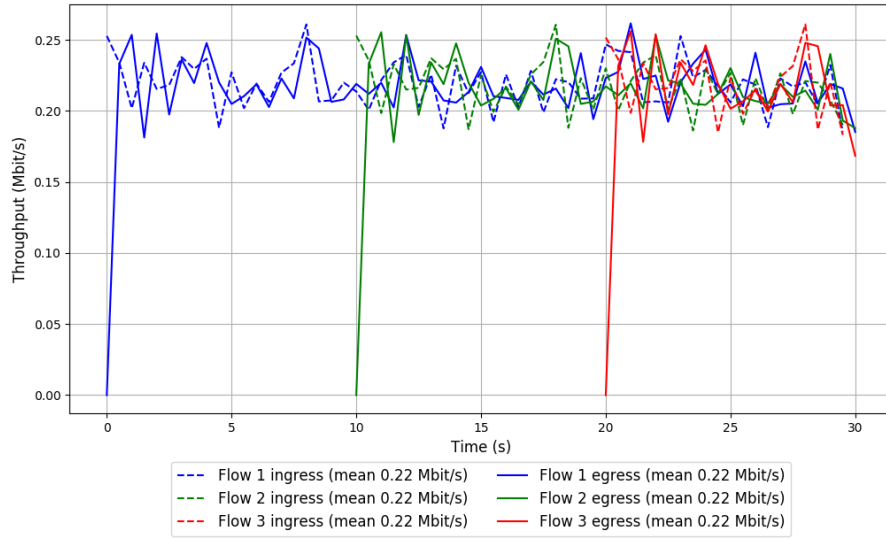
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 21.367 ms

Loss rate: 0.71%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-09-19 00:10:06

End at: 2019-09-19 00:10:36

Local clock offset: 6.146 ms

Remote clock offset: 0.525 ms

Below is generated by plot.py at 2019-09-19 01:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 21.031 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 21.018 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 21.038 ms

Loss rate: 0.19%

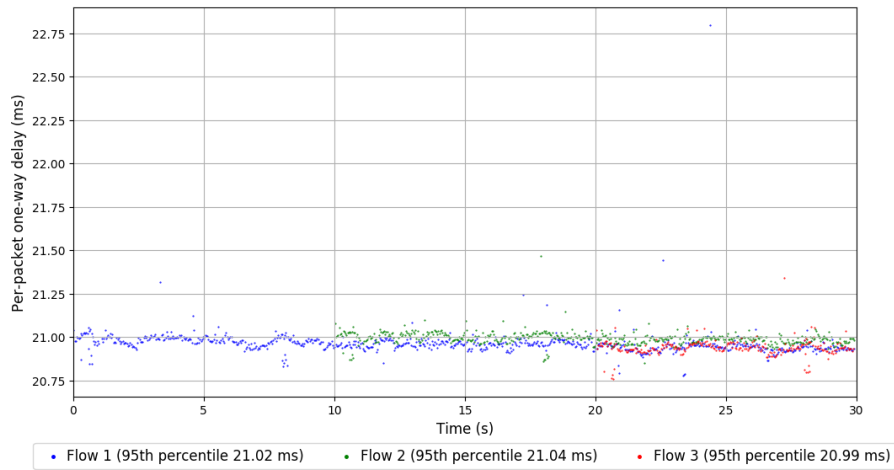
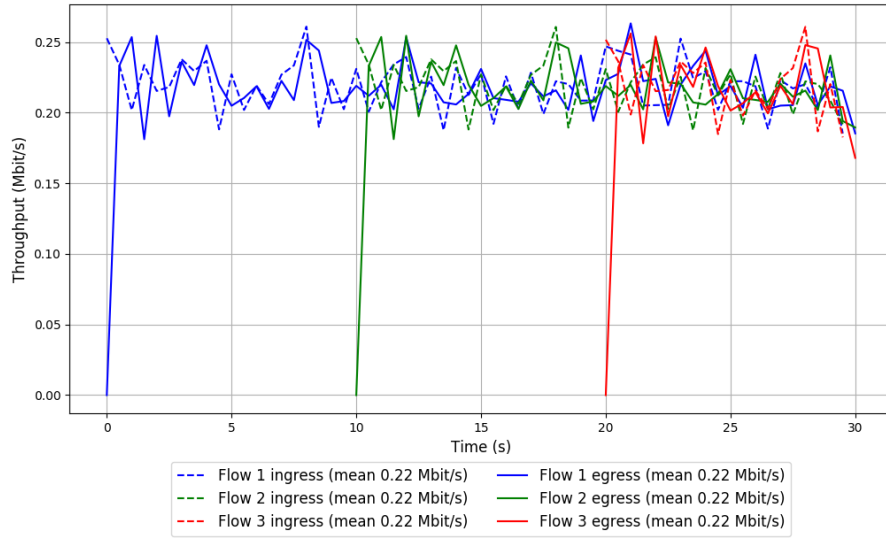
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 20.990 ms

Loss rate: 0.70%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-09-19 00:39:55
End at: 2019-09-19 00:40:25
Local clock offset: 4.321 ms
Remote clock offset: -1.096 ms

Below is generated by plot.py at 2019-09-19 01:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 20.395 ms
Loss rate: 0.31%

-- Flow 1:

Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 20.378 ms
Loss rate: 0.26%

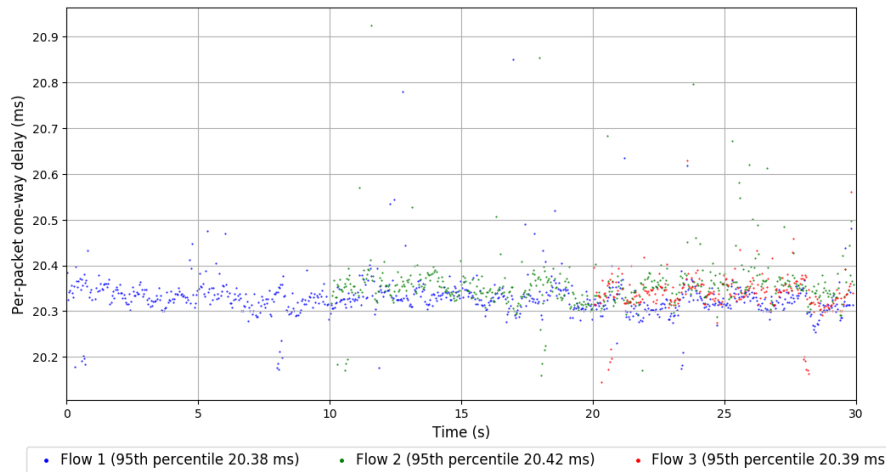
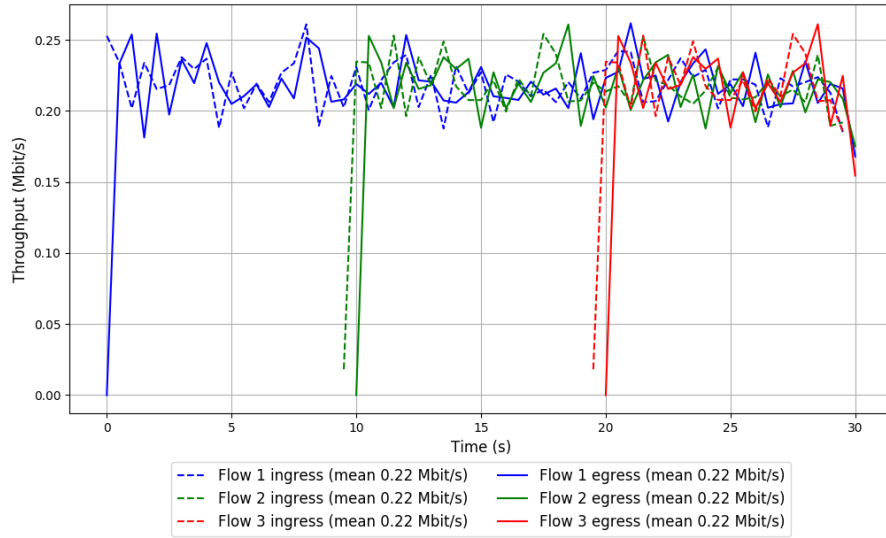
-- Flow 2:

Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 20.416 ms
Loss rate: 0.19%

-- Flow 3:

Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 20.392 ms
Loss rate: 0.71%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-09-19 01:10:11
End at: 2019-09-19 01:10:41
Local clock offset: -7.989 ms
Remote clock offset: -10.305 ms

Below is generated by plot.py at 2019-09-19 01:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 16.103 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 16.115 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 15.904 ms

Loss rate: 0.19%

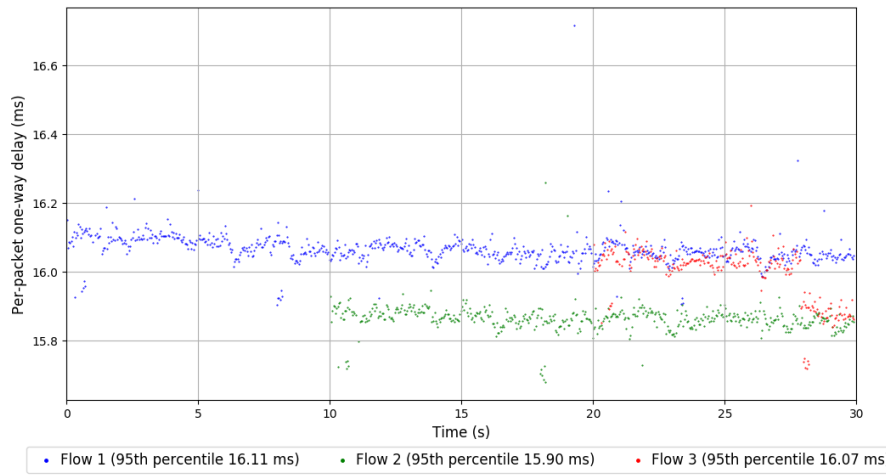
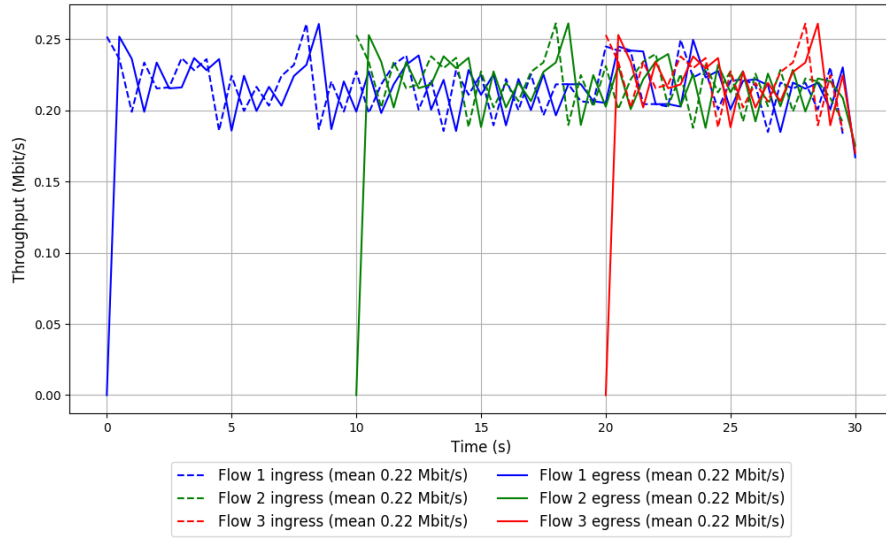
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 16.075 ms

Loss rate: 0.36%

Run 5: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-09-18 22:59:10

End at: 2019-09-18 22:59:40

Local clock offset: 4.689 ms

Remote clock offset: 0.767 ms

Below is generated by plot.py at 2019-09-19 01:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.21 Mbit/s

95th percentile per-packet one-way delay: 26.777 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 15.85 Mbit/s

95th percentile per-packet one-way delay: 26.267 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 15.65 Mbit/s

95th percentile per-packet one-way delay: 27.054 ms

Loss rate: 0.21%

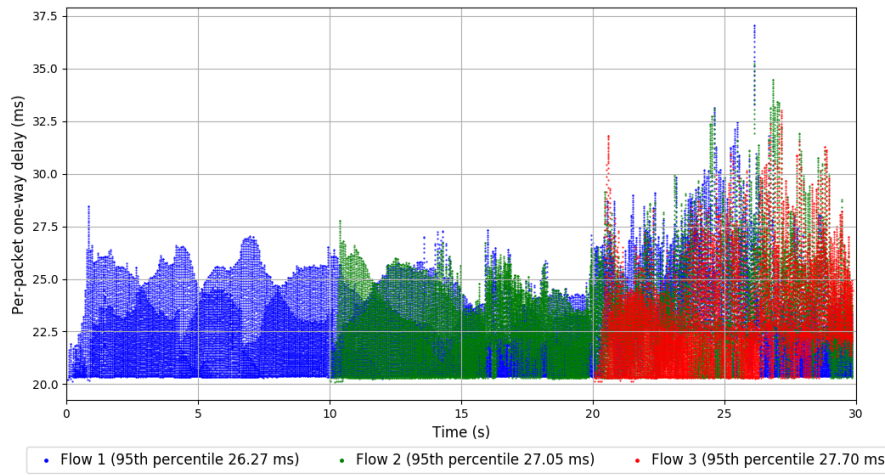
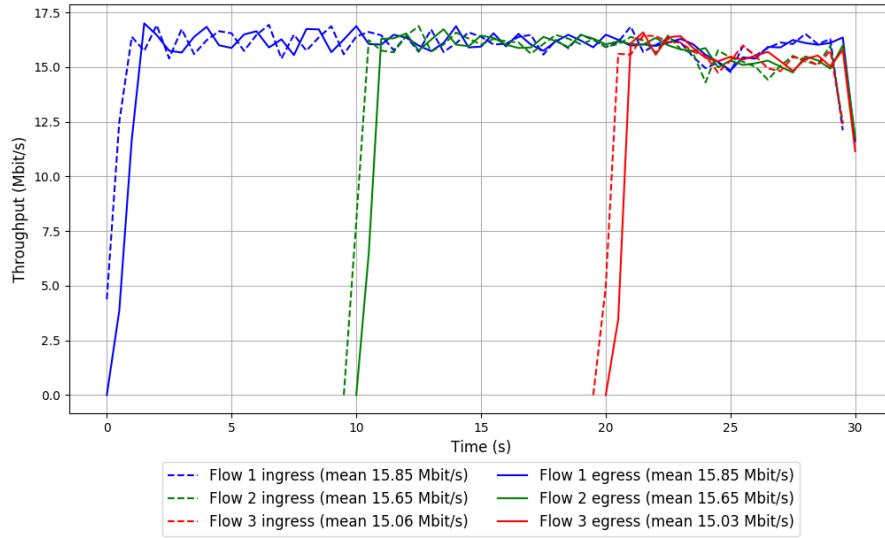
-- Flow 3:

Average throughput: 15.03 Mbit/s

95th percentile per-packet one-way delay: 27.699 ms

Loss rate: 0.60%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-09-18 23:29:23

End at: 2019-09-18 23:29:53

Local clock offset: 2.806 ms

Remote clock offset: 2.162 ms

Below is generated by plot.py at 2019-09-19 01:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.61 Mbit/s

95th percentile per-packet one-way delay: 20.219 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 15.94 Mbit/s

95th percentile per-packet one-way delay: 19.694 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 15.90 Mbit/s

95th percentile per-packet one-way delay: 20.534 ms

Loss rate: 0.31%

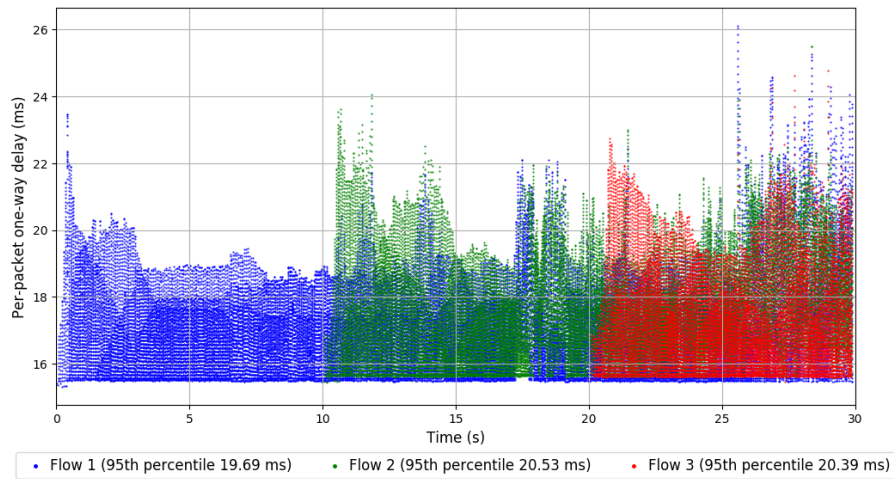
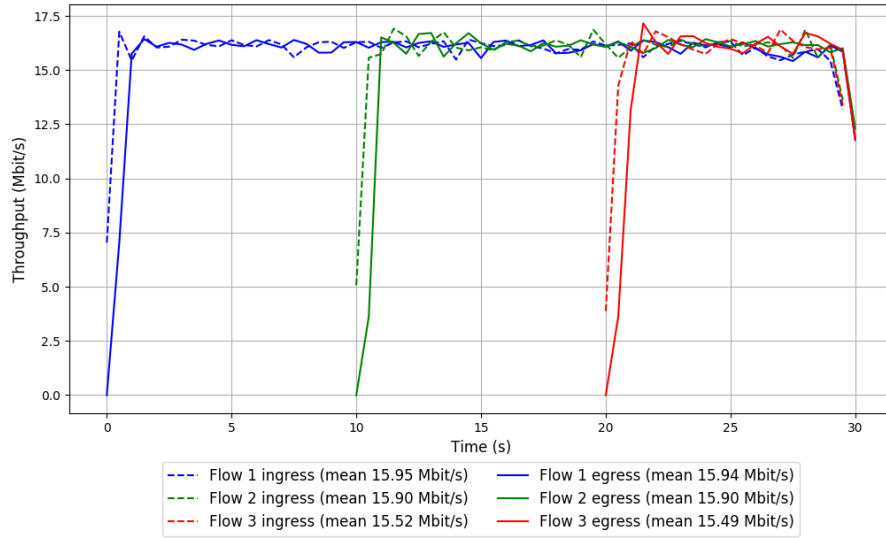
-- Flow 3:

Average throughput: 15.49 Mbit/s

95th percentile per-packet one-way delay: 20.394 ms

Loss rate: 0.63%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-09-18 23:58:59

End at: 2019-09-18 23:59:29

Local clock offset: 0.419 ms

Remote clock offset: 0.5 ms

Below is generated by plot.py at 2019-09-19 01:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.74 Mbit/s

95th percentile per-packet one-way delay: 22.280 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 15.99 Mbit/s

95th percentile per-packet one-way delay: 22.158 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 15.98 Mbit/s

95th percentile per-packet one-way delay: 22.585 ms

Loss rate: 0.31%

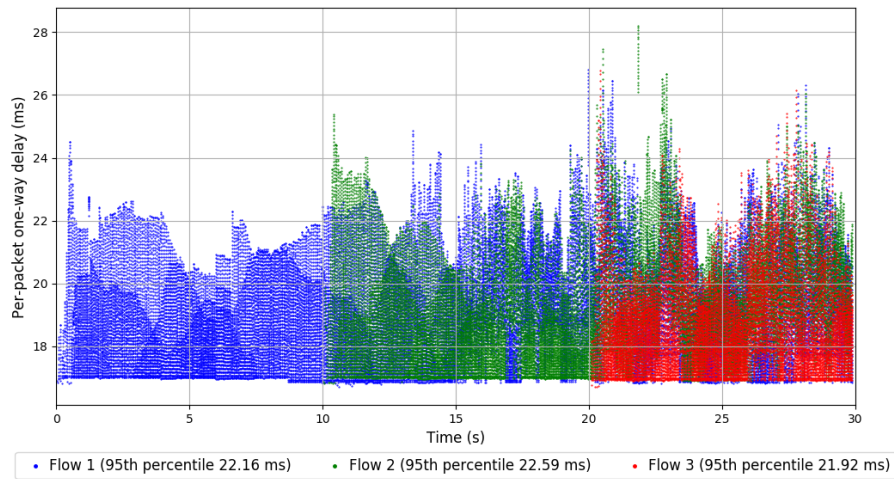
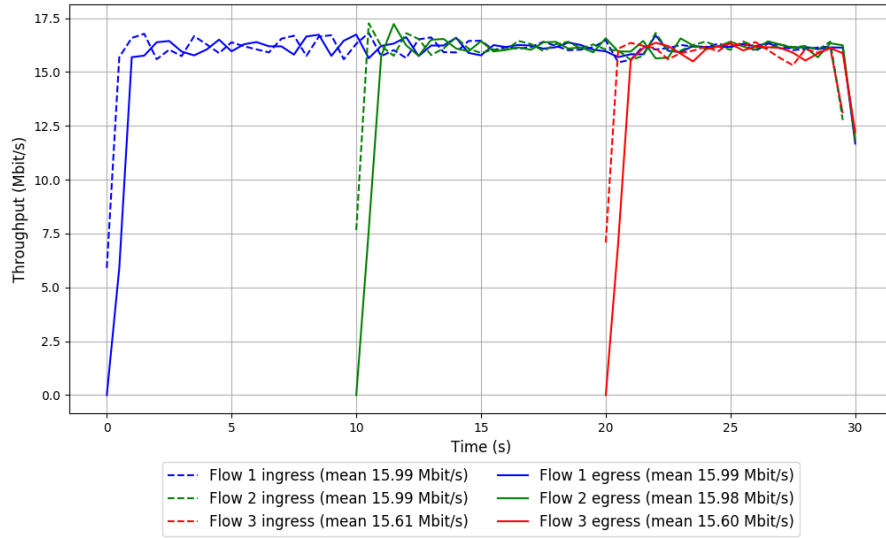
-- Flow 3:

Average throughput: 15.60 Mbit/s

95th percentile per-packet one-way delay: 21.921 ms

Loss rate: 0.46%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-09-19 00:28:44

End at: 2019-09-19 00:29:14

Local clock offset: 6.65 ms

Remote clock offset: 0.303 ms

Below is generated by plot.py at 2019-09-19 01:27:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.76 Mbit/s

95th percentile per-packet one-way delay: 24.556 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 16.05 Mbit/s

95th percentile per-packet one-way delay: 24.699 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 15.89 Mbit/s

95th percentile per-packet one-way delay: 23.994 ms

Loss rate: 0.27%

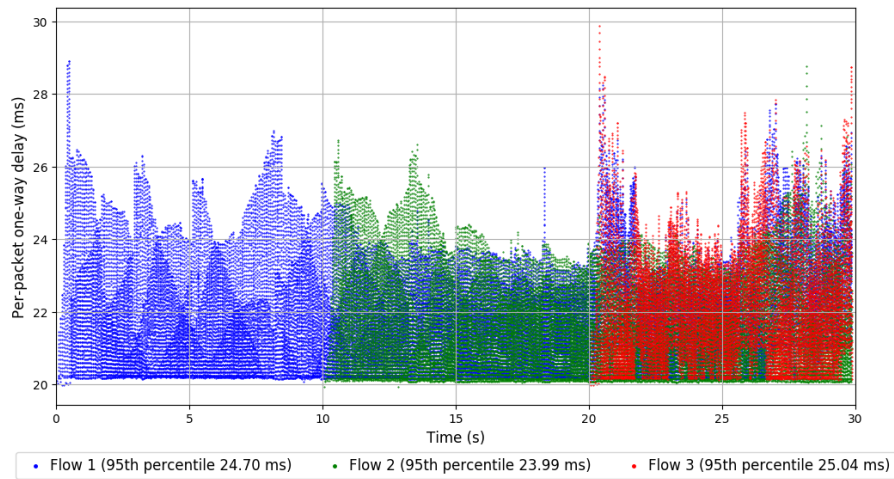
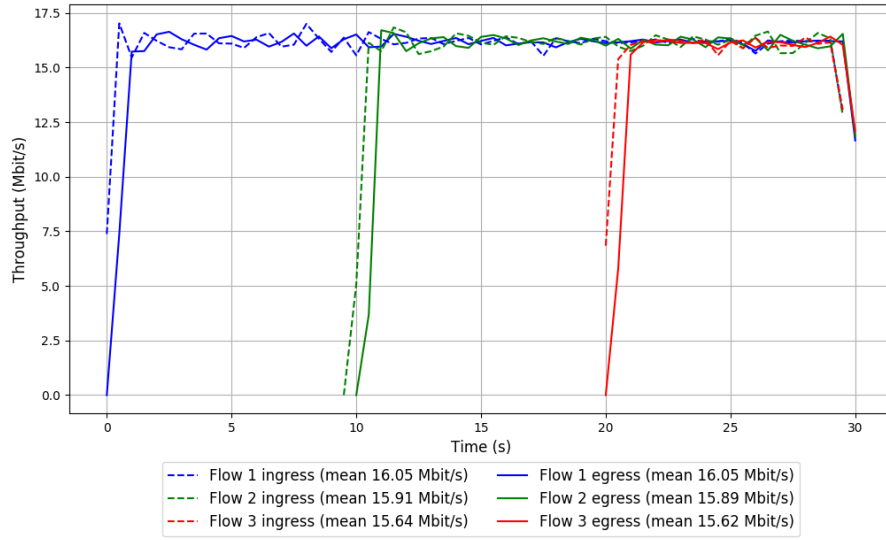
-- Flow 3:

Average throughput: 15.62 Mbit/s

95th percentile per-packet one-way delay: 25.038 ms

Loss rate: 0.51%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-09-19 00:58:54
End at: 2019-09-19 00:59:24
Local clock offset: -0.542 ms
Remote clock offset: -0.563 ms

Below is generated by plot.py at 2019-09-19 01:27:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.64 Mbit/s
95th percentile per-packet one-way delay: 20.634 ms
Loss rate: 0.31%

-- Flow 1:

Average throughput: 15.97 Mbit/s
95th percentile per-packet one-way delay: 20.117 ms
Loss rate: 0.20%

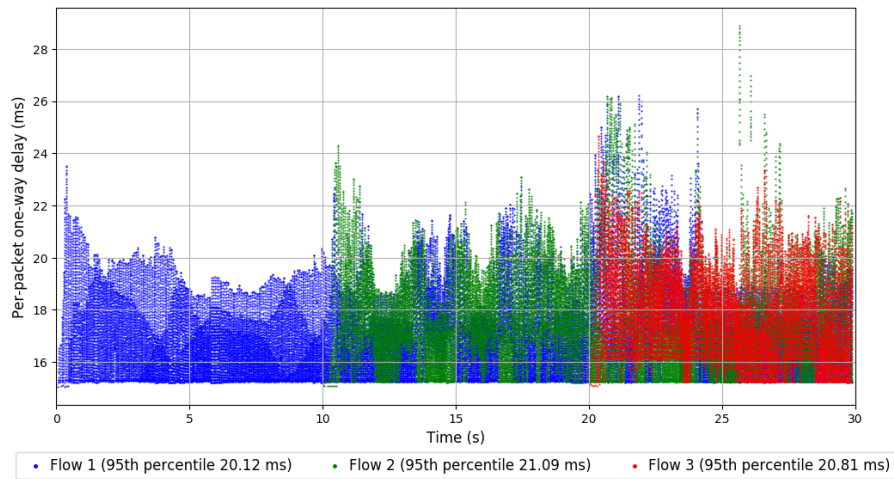
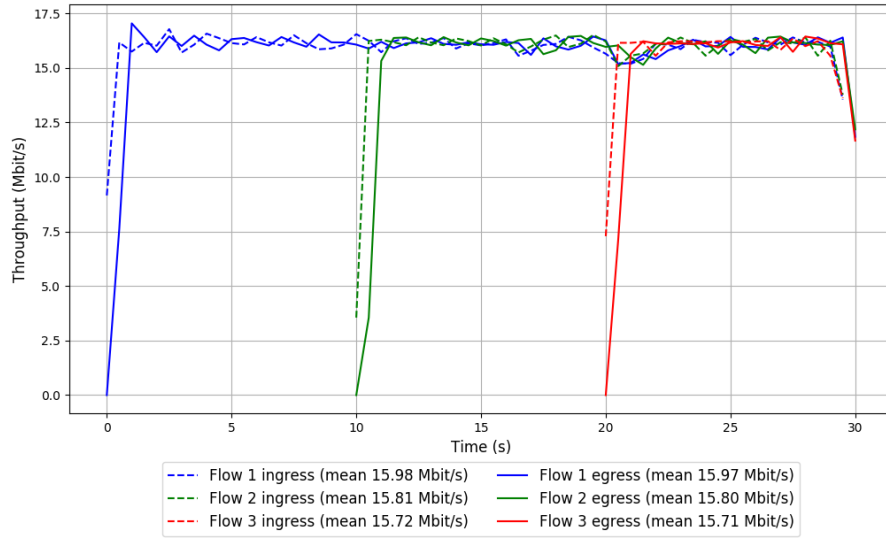
-- Flow 2:

Average throughput: 15.80 Mbit/s
95th percentile per-packet one-way delay: 21.090 ms
Loss rate: 0.31%

-- Flow 3:

Average throughput: 15.71 Mbit/s
95th percentile per-packet one-way delay: 20.807 ms
Loss rate: 0.63%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-09-18 23:06:30

End at: 2019-09-18 23:07:00

Local clock offset: 5.784 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2019-09-19 01:29:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 129.600 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 55.70 Mbit/s

95th percentile per-packet one-way delay: 127.867 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 39.53 Mbit/s

95th percentile per-packet one-way delay: 129.613 ms

Loss rate: 1.62%

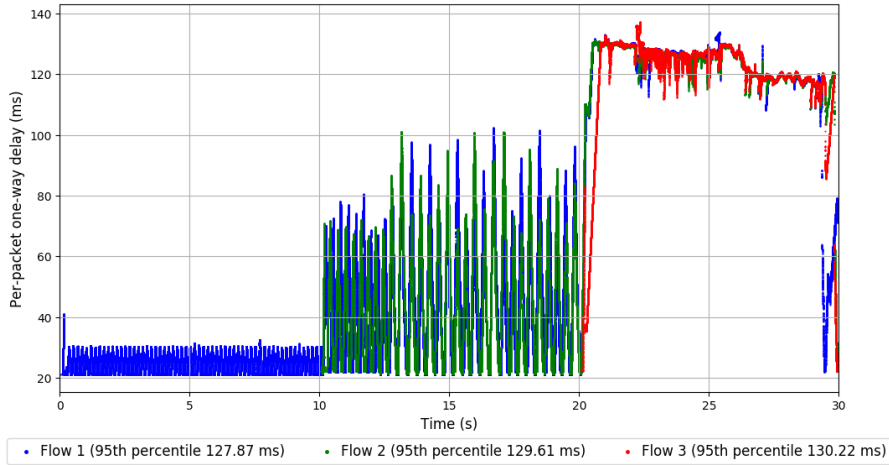
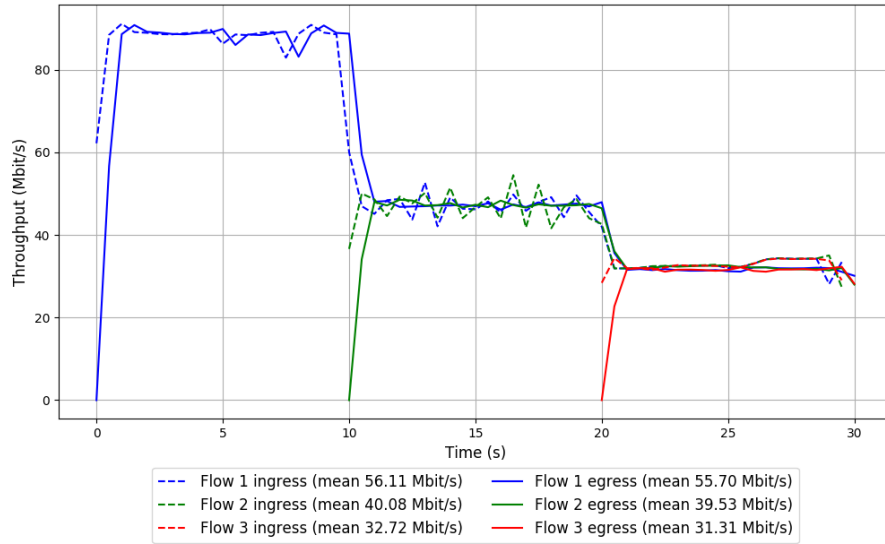
-- Flow 3:

Average throughput: 31.31 Mbit/s

95th percentile per-packet one-way delay: 130.217 ms

Loss rate: 4.84%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-09-18 23:36:48

End at: 2019-09-18 23:37:18

Local clock offset: 1.951 ms

Remote clock offset: 0.161 ms

Below is generated by plot.py at 2019-09-19 01:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.18 Mbit/s

95th percentile per-packet one-way delay: 124.090 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 55.72 Mbit/s

95th percentile per-packet one-way delay: 122.464 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 39.24 Mbit/s

95th percentile per-packet one-way delay: 125.412 ms

Loss rate: 2.19%

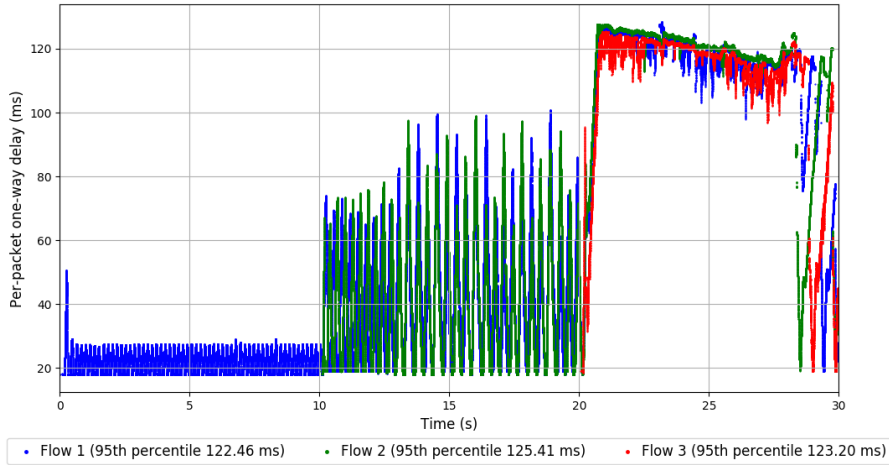
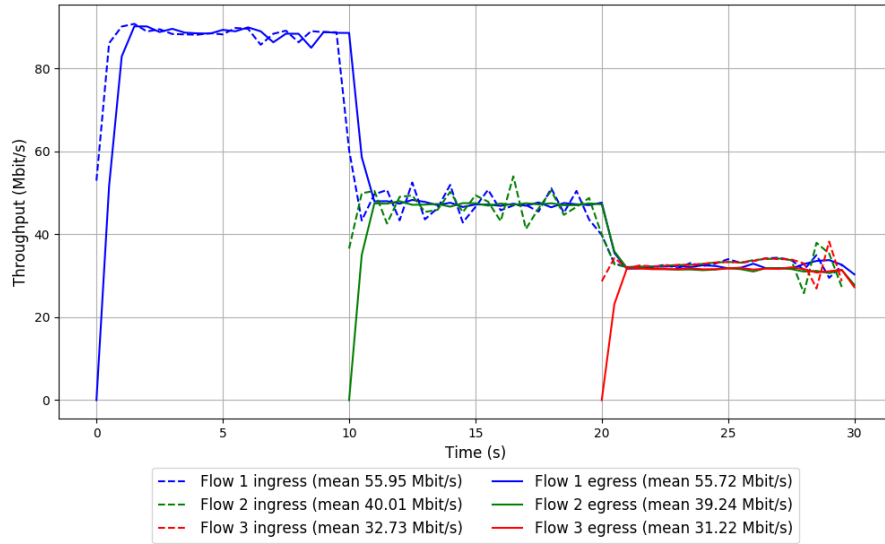
-- Flow 3:

Average throughput: 31.22 Mbit/s

95th percentile per-packet one-way delay: 123.197 ms

Loss rate: 5.09%

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

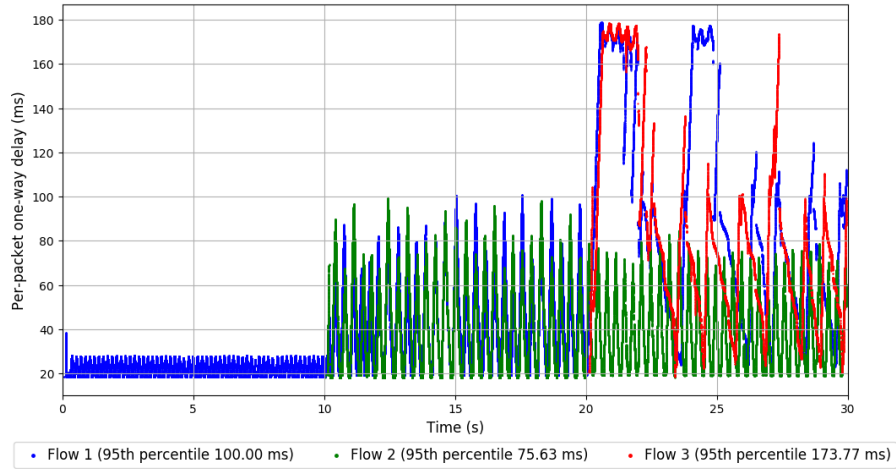
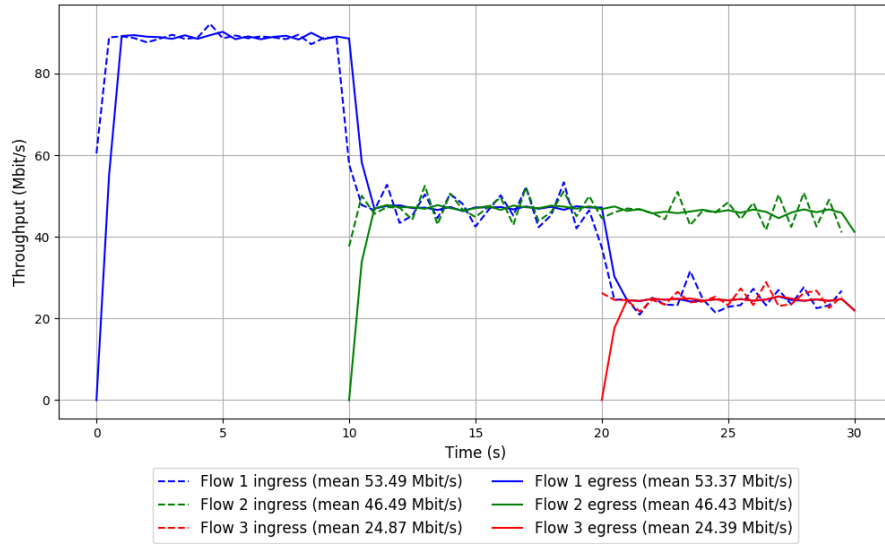


Run 3: Statistics of TaoVA-100x

Start at: 2019-09-19 00:06:18
End at: 2019-09-19 00:06:48
Local clock offset: 1.922 ms
Remote clock offset: -0.703 ms

```
# Below is generated by plot.py at 2019-09-19 01:29:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.35 Mbit/s
95th percentile per-packet one-way delay: 100.309 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 53.37 Mbit/s
95th percentile per-packet one-way delay: 100.000 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 46.43 Mbit/s
95th percentile per-packet one-way delay: 75.626 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 24.39 Mbit/s
95th percentile per-packet one-way delay: 173.772 ms
Loss rate: 2.45%
```

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

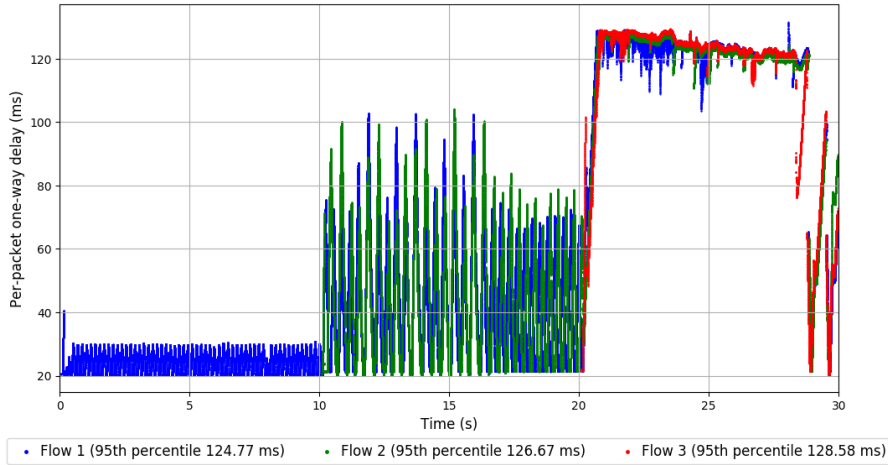
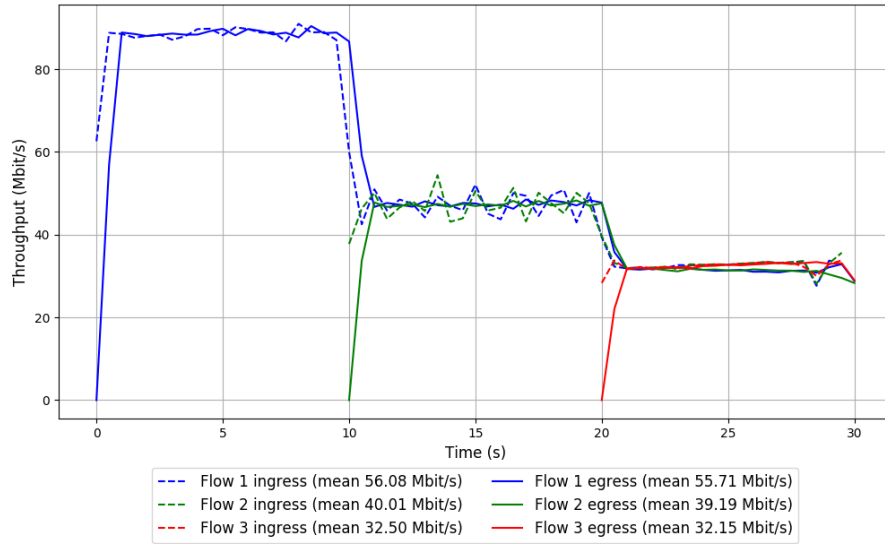


Run 4: Statistics of TaoVA-100x

Start at: 2019-09-19 00:36:07
End at: 2019-09-19 00:36:37
Local clock offset: 5.537 ms
Remote clock offset: -0.332 ms

```
# Below is generated by plot.py at 2019-09-19 01:29:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.44 Mbit/s
95th percentile per-packet one-way delay: 126.835 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 55.71 Mbit/s
95th percentile per-packet one-way delay: 124.765 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 39.19 Mbit/s
95th percentile per-packet one-way delay: 126.668 ms
Loss rate: 2.31%
-- Flow 3:
Average throughput: 32.15 Mbit/s
95th percentile per-packet one-way delay: 128.583 ms
Loss rate: 1.58%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-09-19 01:06:21

End at: 2019-09-19 01:06:51

Local clock offset: 4.742 ms

Remote clock offset: -0.762 ms

Below is generated by plot.py at 2019-09-19 01:29:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.59 Mbit/s

95th percentile per-packet one-way delay: 94.999 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 53.60 Mbit/s

95th percentile per-packet one-way delay: 93.866 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 46.45 Mbit/s

95th percentile per-packet one-way delay: 76.197 ms

Loss rate: 0.31%

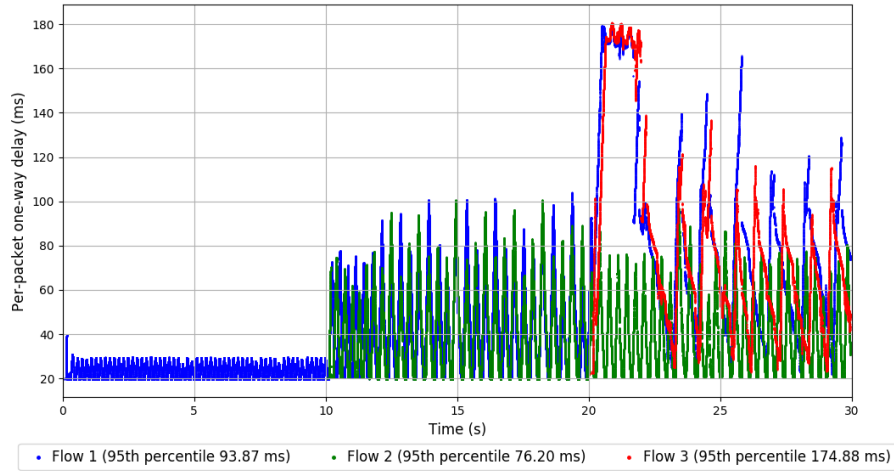
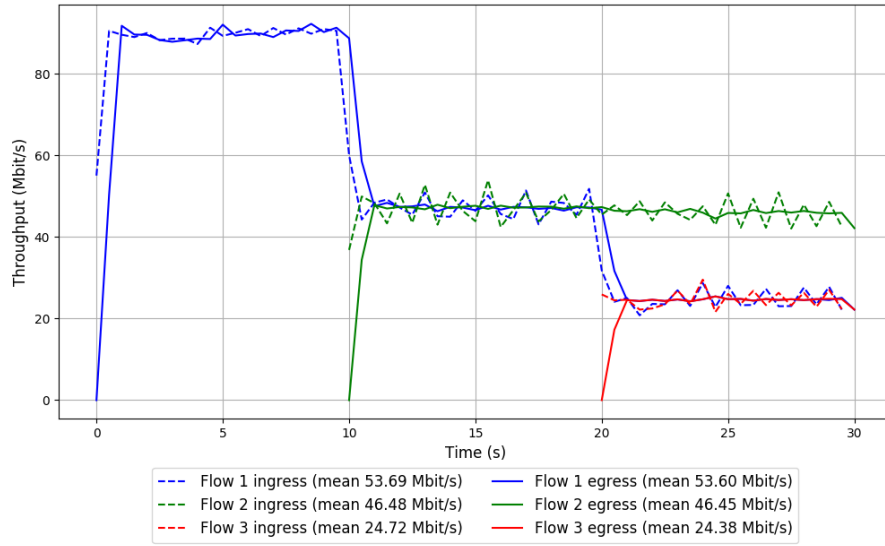
-- Flow 3:

Average throughput: 24.38 Mbit/s

95th percentile per-packet one-way delay: 174.883 ms

Loss rate: 1.88%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-09-18 22:55:06

End at: 2019-09-18 22:55:36

Local clock offset: 0.131 ms

Remote clock offset: 0.167 ms

Below is generated by plot.py at 2019-09-19 01:29:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.53 Mbit/s

95th percentile per-packet one-way delay: 18.686 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 48.73 Mbit/s

95th percentile per-packet one-way delay: 21.356 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 45.52 Mbit/s

95th percentile per-packet one-way delay: 18.068 ms

Loss rate: 0.27%

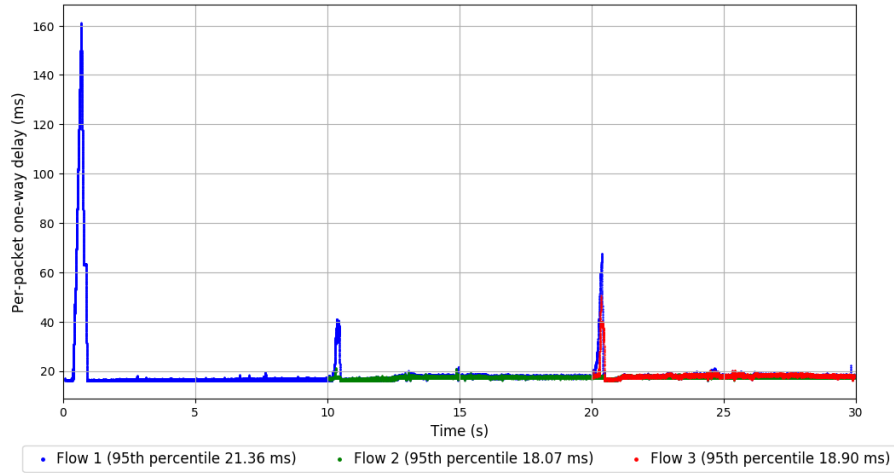
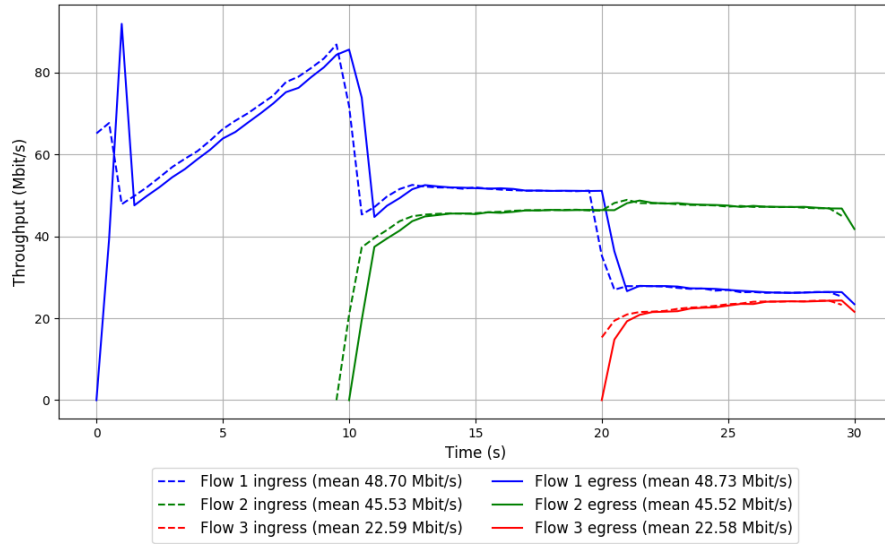
-- Flow 3:

Average throughput: 22.58 Mbit/s

95th percentile per-packet one-way delay: 18.902 ms

Loss rate: 0.56%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-09-18 23:25:26

End at: 2019-09-18 23:25:56

Local clock offset: 2.223 ms

Remote clock offset: 1.683 ms

Below is generated by plot.py at 2019-09-19 01:29:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 18.056 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 55.98 Mbit/s

95th percentile per-packet one-way delay: 17.740 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 38.51 Mbit/s

95th percentile per-packet one-way delay: 18.345 ms

Loss rate: 0.23%

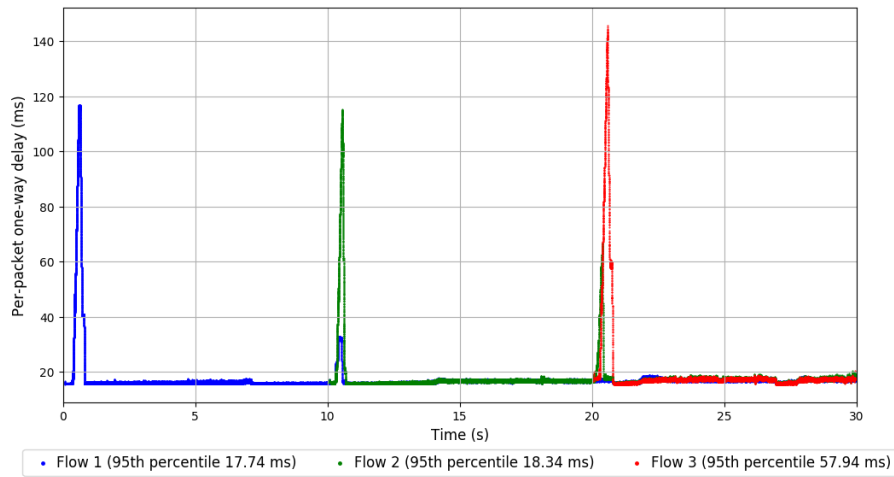
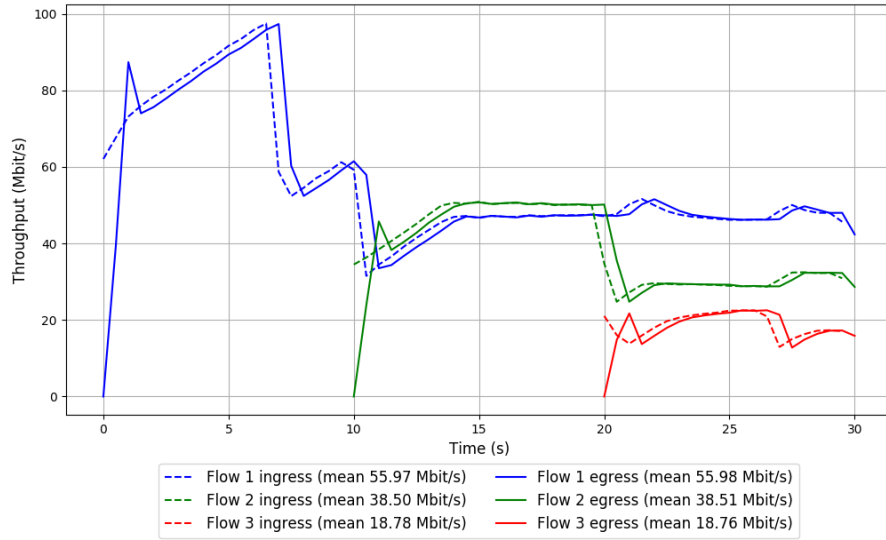
-- Flow 3:

Average throughput: 18.76 Mbit/s

95th percentile per-packet one-way delay: 57.940 ms

Loss rate: 0.55%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-09-18 23:55:07

End at: 2019-09-18 23:55:37

Local clock offset: 0.808 ms

Remote clock offset: 0.702 ms

Below is generated by plot.py at 2019-09-19 01:29:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.50 Mbit/s

95th percentile per-packet one-way delay: 20.328 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 45.02 Mbit/s

95th percentile per-packet one-way delay: 23.717 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 37.41 Mbit/s

95th percentile per-packet one-way delay: 19.036 ms

Loss rate: 0.19%

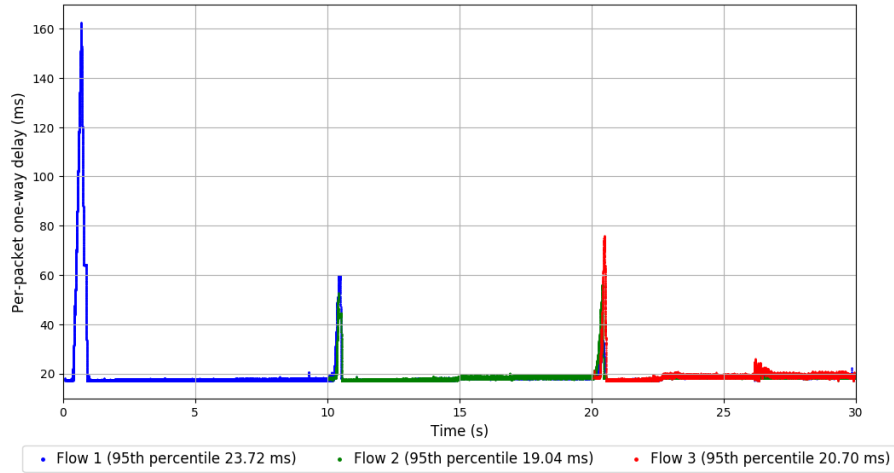
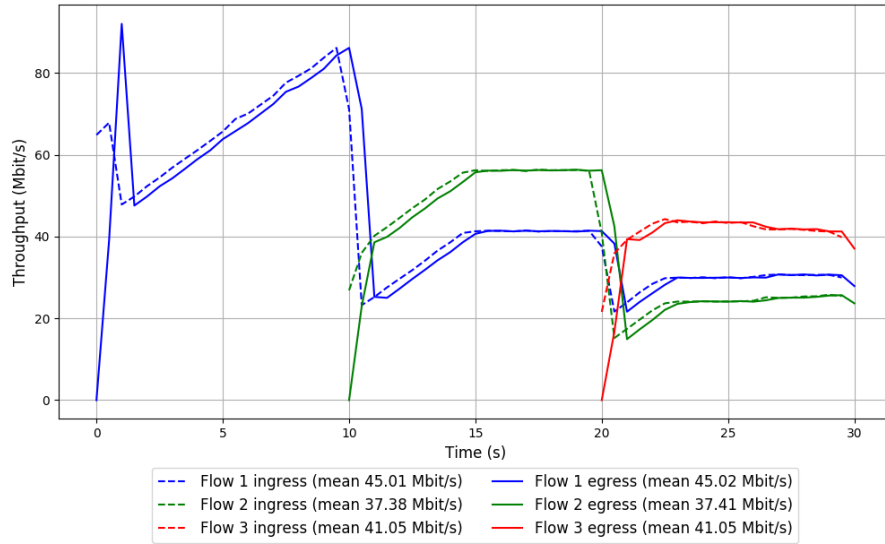
-- Flow 3:

Average throughput: 41.05 Mbit/s

95th percentile per-packet one-way delay: 20.695 ms

Loss rate: 0.53%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-09-19 00:24:57

End at: 2019-09-19 00:25:27

Local clock offset: 6.622 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2019-09-19 01:29:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 23.282 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 50.28 Mbit/s

95th percentile per-packet one-way delay: 24.518 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 39.90 Mbit/s

95th percentile per-packet one-way delay: 23.146 ms

Loss rate: 0.19%

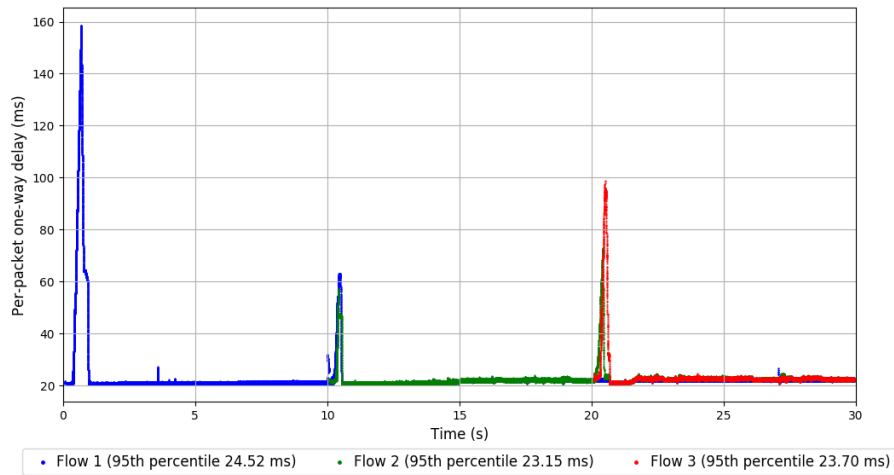
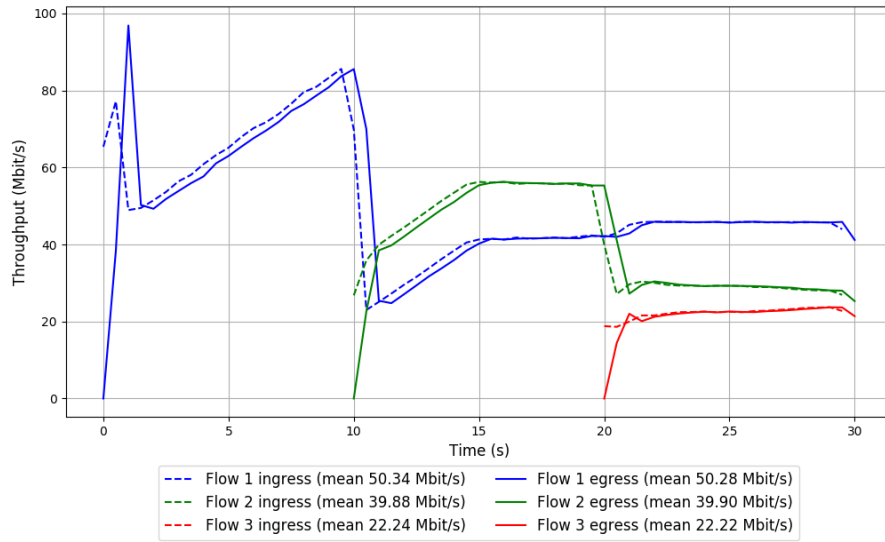
-- Flow 3:

Average throughput: 22.22 Mbit/s

95th percentile per-packet one-way delay: 23.701 ms

Loss rate: 0.57%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-09-19 00:54:54
End at: 2019-09-19 00:55:24
Local clock offset: 4.252 ms
Remote clock offset: -2.337 ms

Below is generated by plot.py at 2019-09-19 01:29:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.49 Mbit/s
95th percentile per-packet one-way delay: 24.737 ms
Loss rate: 0.20%

-- Flow 1:

Average throughput: 44.97 Mbit/s
95th percentile per-packet one-way delay: 29.408 ms
Loss rate: 0.11%

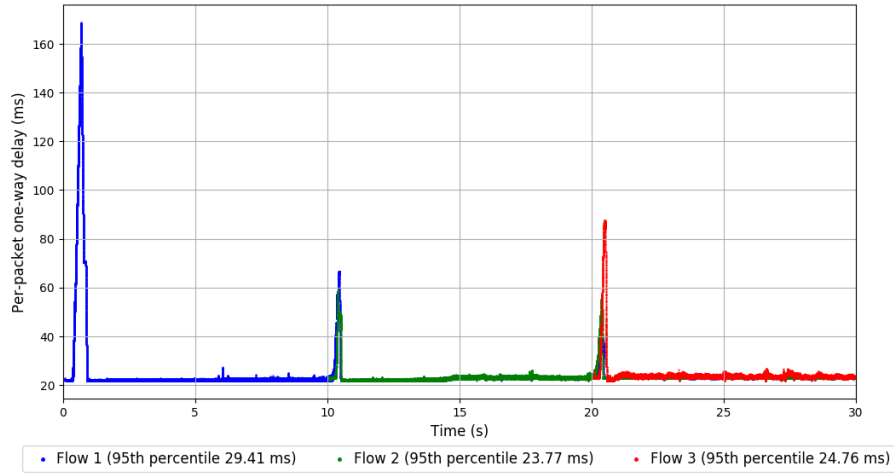
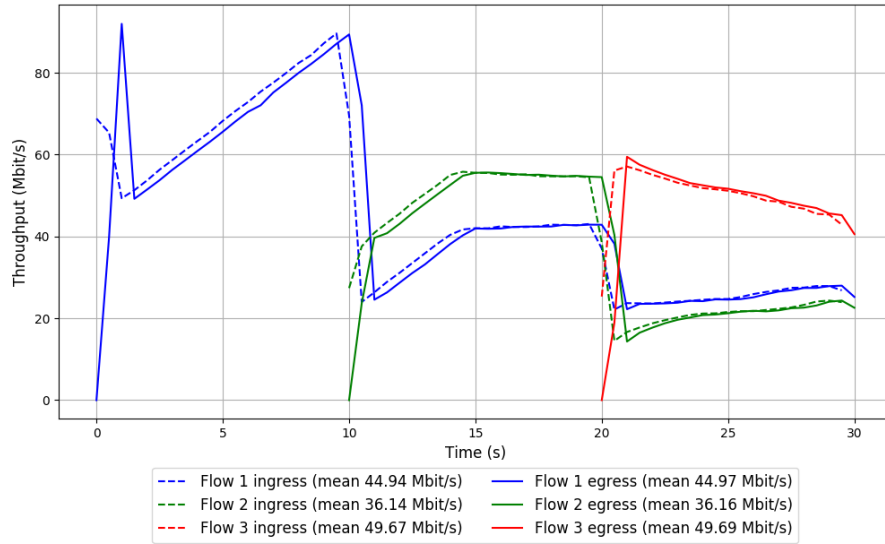
-- Flow 2:

Average throughput: 36.16 Mbit/s
95th percentile per-packet one-way delay: 23.766 ms
Loss rate: 0.18%

-- Flow 3:

Average throughput: 49.69 Mbit/s
95th percentile per-packet one-way delay: 24.762 ms
Loss rate: 0.46%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-09-18 23:03:59

End at: 2019-09-18 23:04:29

Local clock offset: 1.25 ms

Remote clock offset: 1.199 ms

Below is generated by plot.py at 2019-09-19 01:29:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.50 Mbit/s

95th percentile per-packet one-way delay: 129.418 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 54.55 Mbit/s

95th percentile per-packet one-way delay: 250.789 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 31.94 Mbit/s

95th percentile per-packet one-way delay: 77.044 ms

Loss rate: 0.41%

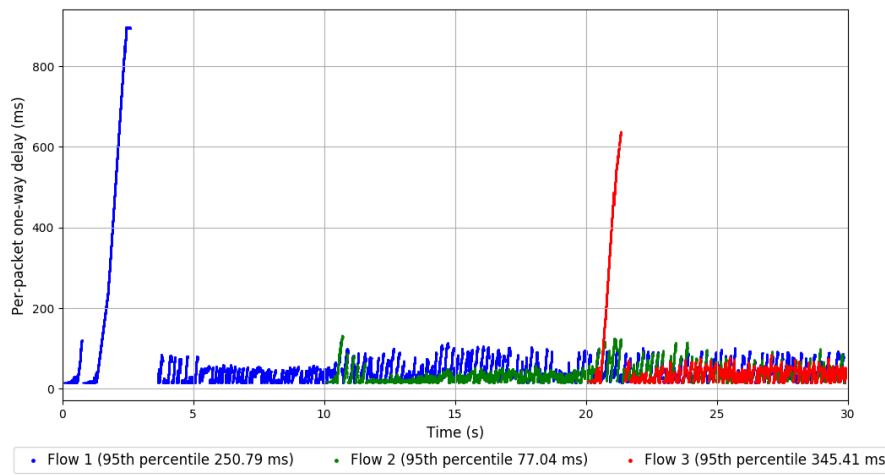
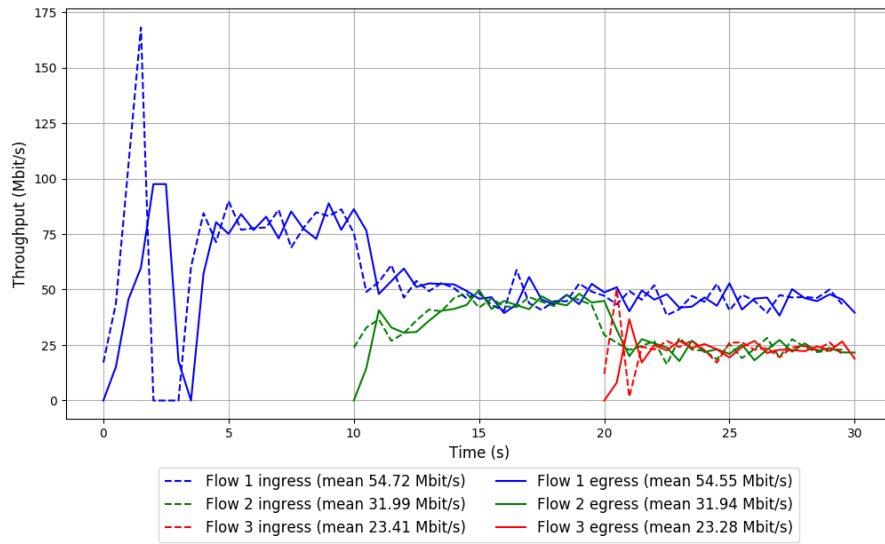
-- Flow 3:

Average throughput: 23.28 Mbit/s

95th percentile per-packet one-way delay: 345.408 ms

Loss rate: 1.09%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-09-18 23:34:12

End at: 2019-09-18 23:34:42

Local clock offset: 1.952 ms

Remote clock offset: 0.354 ms

Below is generated by plot.py at 2019-09-19 01:30:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.09 Mbit/s

95th percentile per-packet one-way delay: 93.102 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 47.75 Mbit/s

95th percentile per-packet one-way delay: 81.917 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 35.38 Mbit/s

95th percentile per-packet one-way delay: 114.858 ms

Loss rate: 0.39%

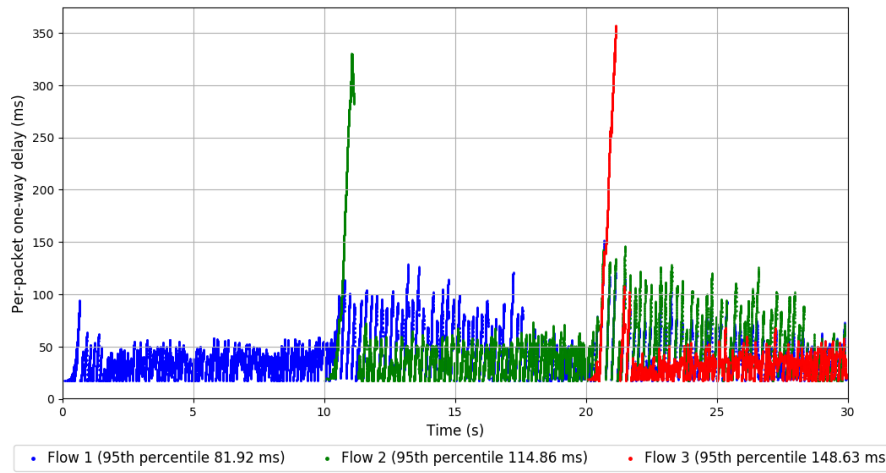
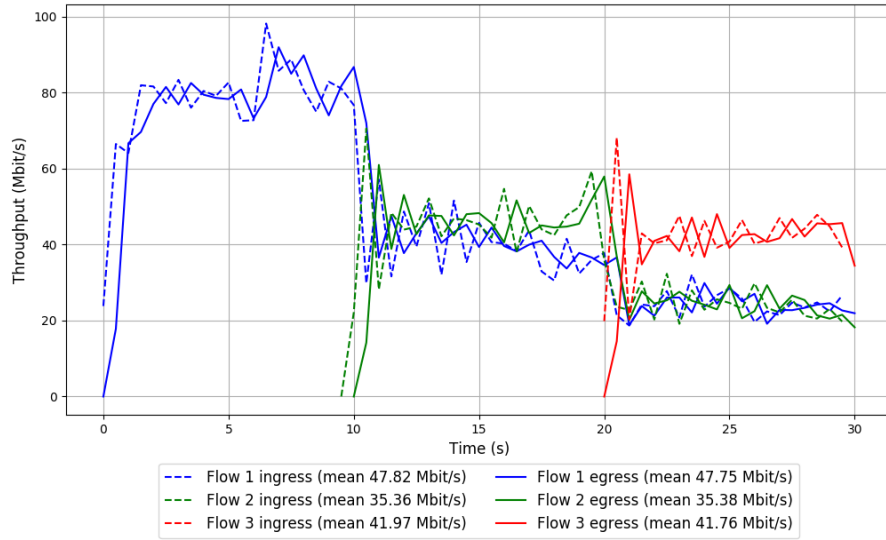
-- Flow 3:

Average throughput: 41.76 Mbit/s

95th percentile per-packet one-way delay: 148.630 ms

Loss rate: 1.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-09-19 00:03:49

End at: 2019-09-19 00:04:19

Local clock offset: 4.735 ms

Remote clock offset: 0.317 ms

Below is generated by plot.py at 2019-09-19 01:30:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.77 Mbit/s

95th percentile per-packet one-way delay: 137.162 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 48.18 Mbit/s

95th percentile per-packet one-way delay: 127.072 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 37.73 Mbit/s

95th percentile per-packet one-way delay: 86.450 ms

Loss rate: 0.37%

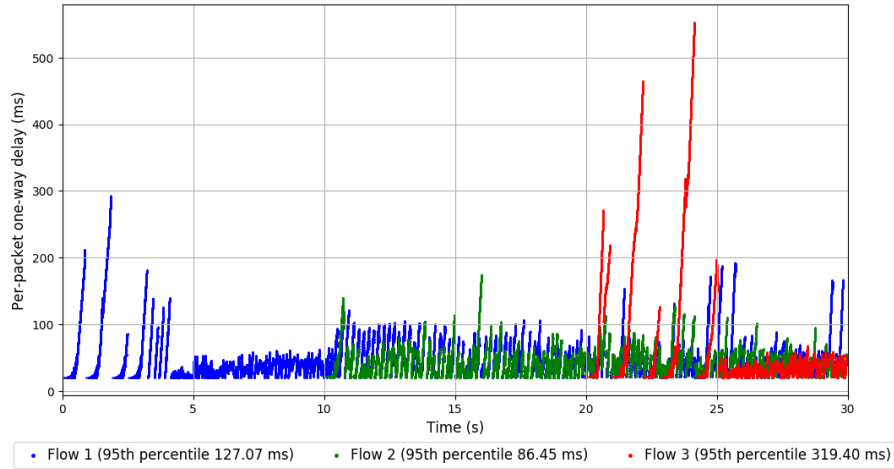
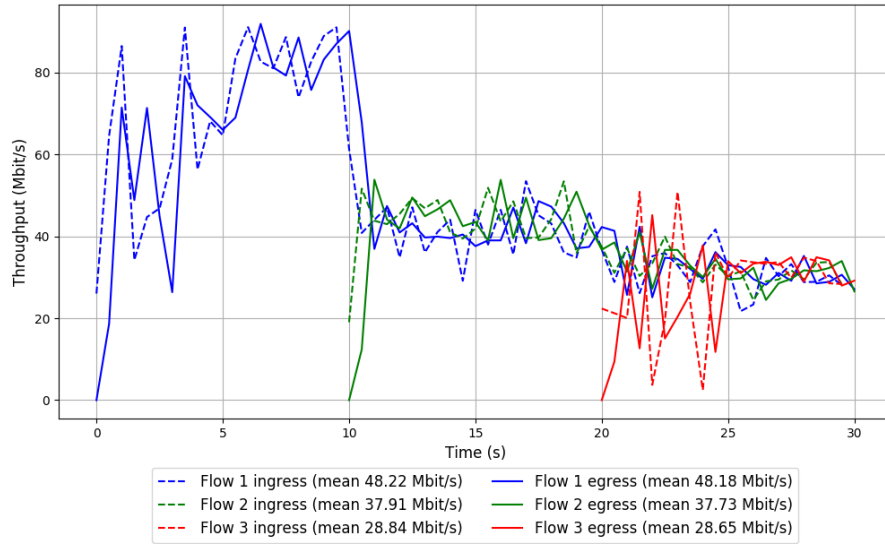
-- Flow 3:

Average throughput: 28.65 Mbit/s

95th percentile per-packet one-way delay: 319.405 ms

Loss rate: 0.69%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-09-19 00:33:35

End at: 2019-09-19 00:34:05

Local clock offset: 5.907 ms

Remote clock offset: 0.176 ms

Below is generated by plot.py at 2019-09-19 01:30:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.18 Mbit/s

95th percentile per-packet one-way delay: 104.548 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 50.40 Mbit/s

95th percentile per-packet one-way delay: 116.926 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 37.37 Mbit/s

95th percentile per-packet one-way delay: 79.221 ms

Loss rate: 0.49%

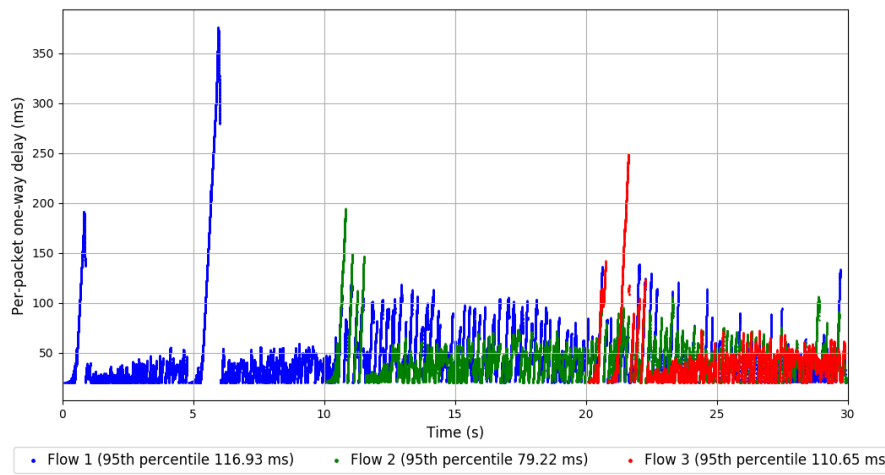
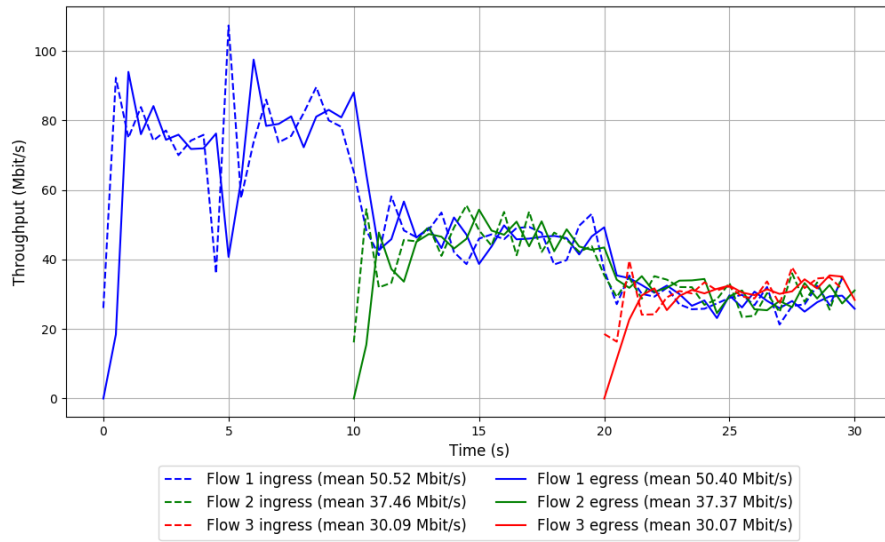
-- Flow 3:

Average throughput: 30.07 Mbit/s

95th percentile per-packet one-way delay: 110.650 ms

Loss rate: 0.99%

Run 4: Report of Verus — Data Link

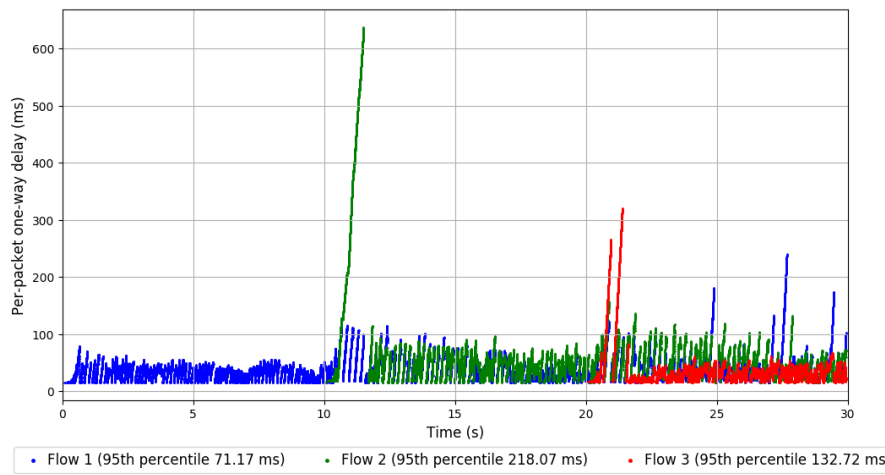
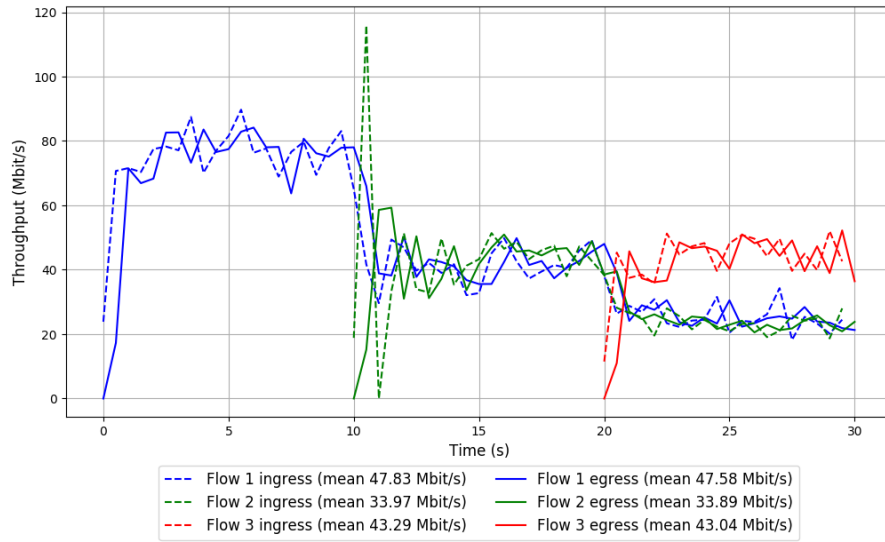


Run 5: Statistics of Verus

Start at: 2019-09-19 01:03:49
End at: 2019-09-19 01:04:19
Local clock offset: 0.268 ms
Remote clock offset: -1.113 ms

```
# Below is generated by plot.py at 2019-09-19 01:30:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.38 Mbit/s
95th percentile per-packet one-way delay: 95.767 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 47.58 Mbit/s
95th percentile per-packet one-way delay: 71.169 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 33.89 Mbit/s
95th percentile per-packet one-way delay: 218.075 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 43.04 Mbit/s
95th percentile per-packet one-way delay: 132.716 ms
Loss rate: 1.07%
```

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-09-18 22:48:40

End at: 2019-09-18 22:49:10

Local clock offset: 0.728 ms

Remote clock offset: 0.641 ms

Below is generated by plot.py at 2019-09-19 01:30:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.52 Mbit/s

95th percentile per-packet one-way delay: 172.350 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 54.15 Mbit/s

95th percentile per-packet one-way delay: 114.003 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 34.62 Mbit/s

95th percentile per-packet one-way delay: 218.134 ms

Loss rate: 0.69%

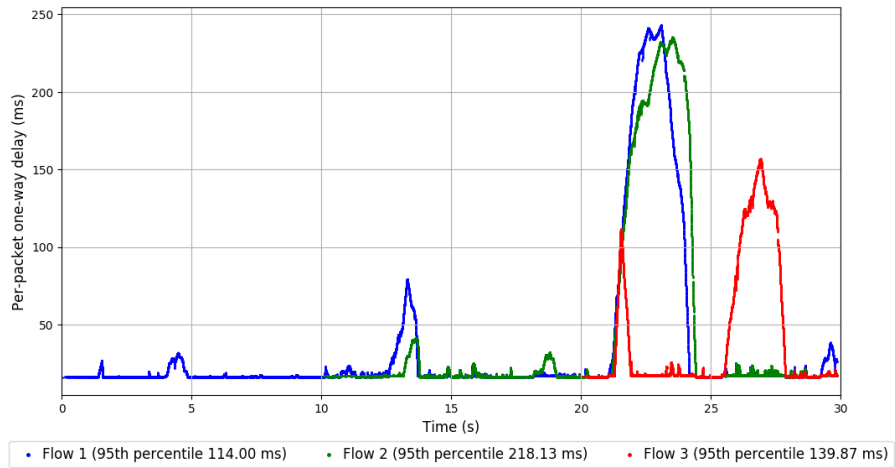
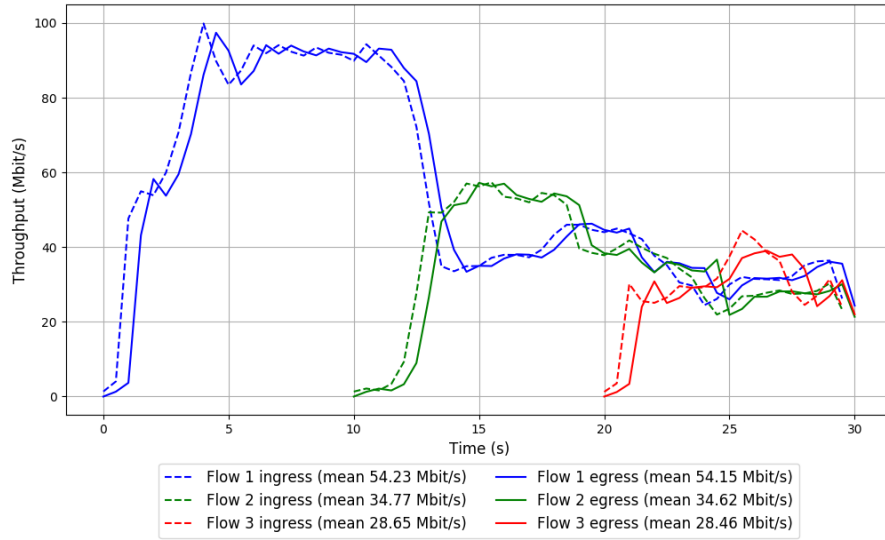
-- Flow 3:

Average throughput: 28.46 Mbit/s

95th percentile per-packet one-way delay: 139.865 ms

Loss rate: 1.20%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-09-18 23:18:58

End at: 2019-09-18 23:19:28

Local clock offset: 2.6 ms

Remote clock offset: 1.383 ms

Below is generated by plot.py at 2019-09-19 01:30:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.00 Mbit/s

95th percentile per-packet one-way delay: 198.959 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 56.33 Mbit/s

95th percentile per-packet one-way delay: 132.652 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 32.59 Mbit/s

95th percentile per-packet one-way delay: 392.535 ms

Loss rate: 0.93%

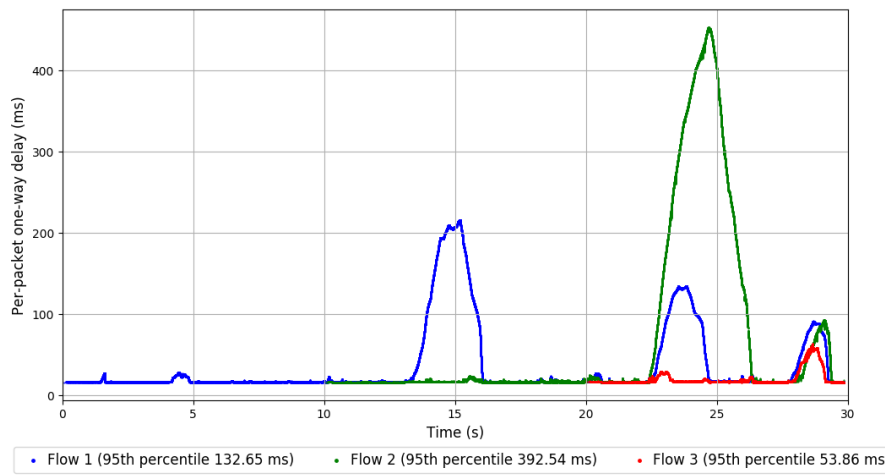
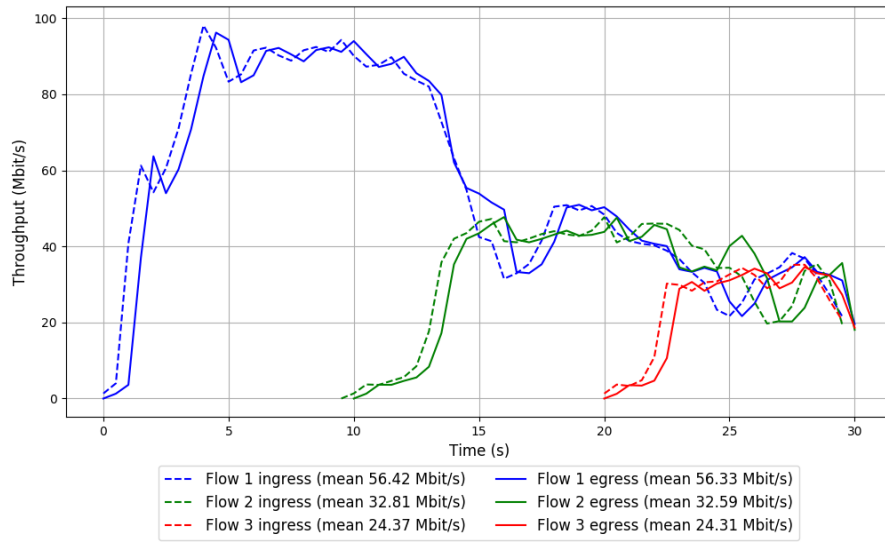
-- Flow 3:

Average throughput: 24.31 Mbit/s

95th percentile per-packet one-way delay: 53.861 ms

Loss rate: 0.75%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-09-18 23:48:54

End at: 2019-09-18 23:49:24

Local clock offset: 0.824 ms

Remote clock offset: 1.536 ms

Below is generated by plot.py at 2019-09-19 01:30:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.42 Mbit/s

95th percentile per-packet one-way delay: 82.493 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 56.23 Mbit/s

95th percentile per-packet one-way delay: 57.683 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 31.80 Mbit/s

95th percentile per-packet one-way delay: 248.390 ms

Loss rate: 0.69%

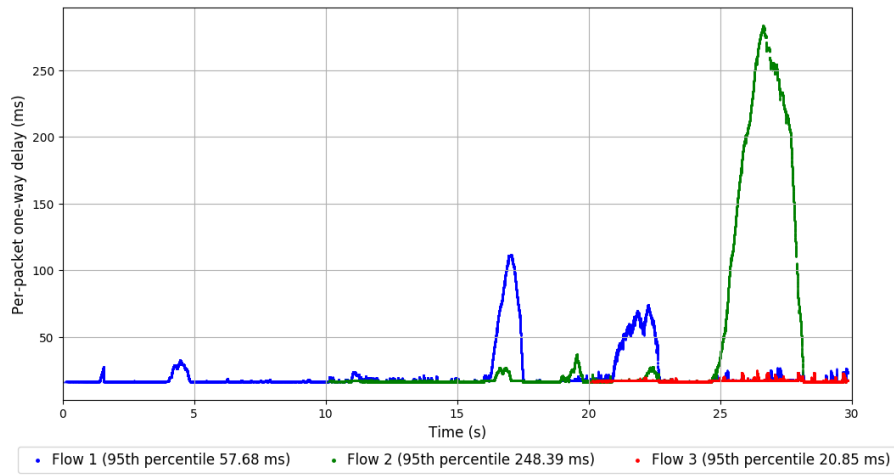
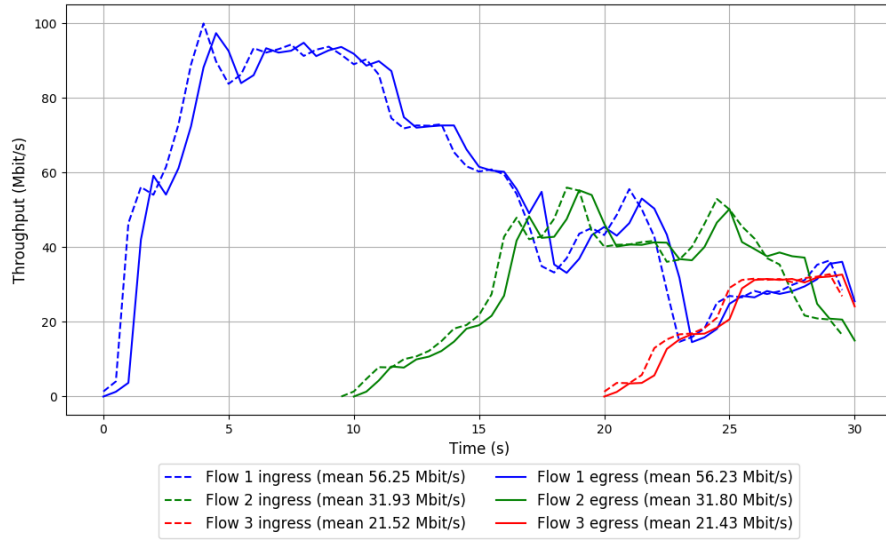
-- Flow 3:

Average throughput: 21.43 Mbit/s

95th percentile per-packet one-way delay: 20.848 ms

Loss rate: 0.90%

Run 3: Report of PCC-Vivace — Data Link

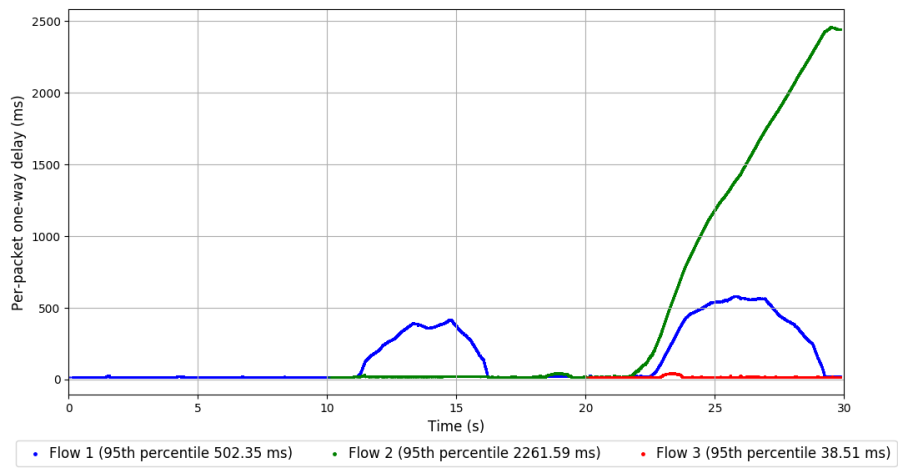
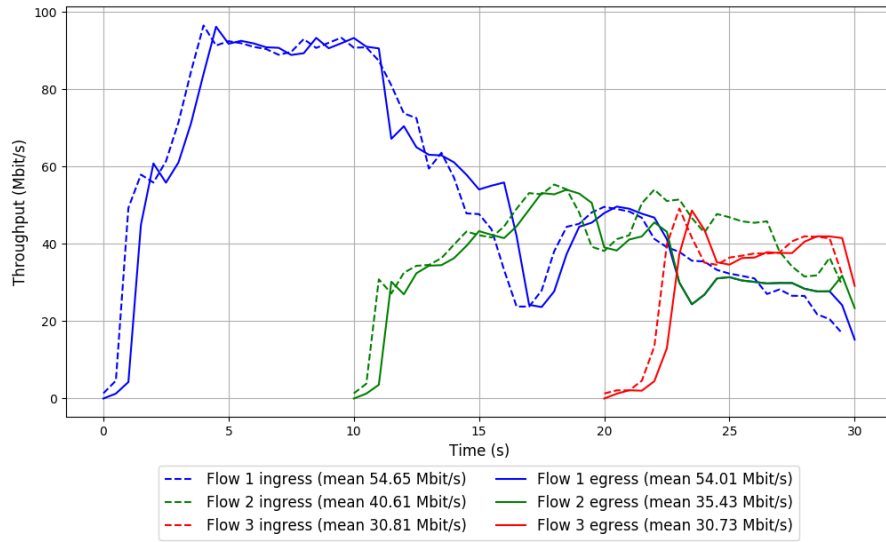


Run 4: Statistics of PCC-Vivace

Start at: 2019-09-19 00:18:41
End at: 2019-09-19 00:19:11
Local clock offset: 1.827 ms
Remote clock offset: -0.033 ms

```
# Below is generated by plot.py at 2019-09-19 01:30:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 1277.713 ms
Loss rate: 4.71%
-- Flow 1:
Average throughput: 54.01 Mbit/s
95th percentile per-packet one-way delay: 502.349 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 35.43 Mbit/s
95th percentile per-packet one-way delay: 2261.590 ms
Loss rate: 13.01%
-- Flow 3:
Average throughput: 30.73 Mbit/s
95th percentile per-packet one-way delay: 38.510 ms
Loss rate: 0.76%
```

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-09-19 00:48:27

End at: 2019-09-19 00:48:57

Local clock offset: -0.161 ms

Remote clock offset: 0.221 ms

Below is generated by plot.py at 2019-09-19 01:31:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.33 Mbit/s

95th percentile per-packet one-way delay: 260.059 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 59.05 Mbit/s

95th percentile per-packet one-way delay: 329.137 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 32.87 Mbit/s

95th percentile per-packet one-way delay: 21.578 ms

Loss rate: 0.34%

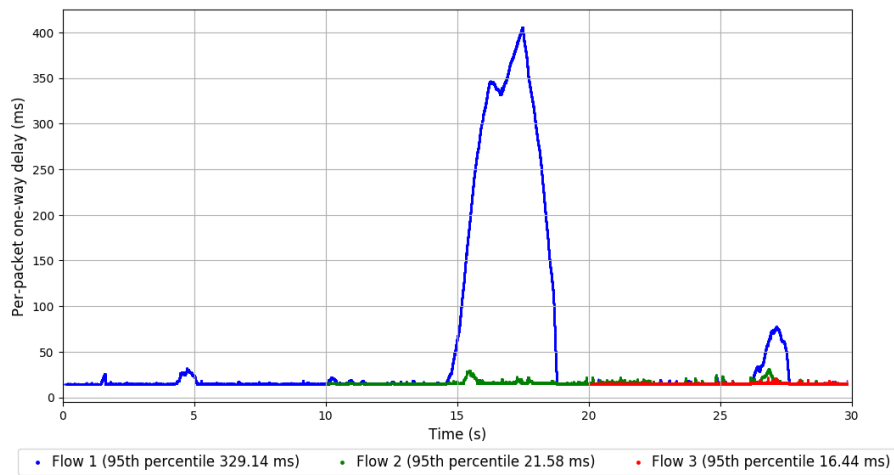
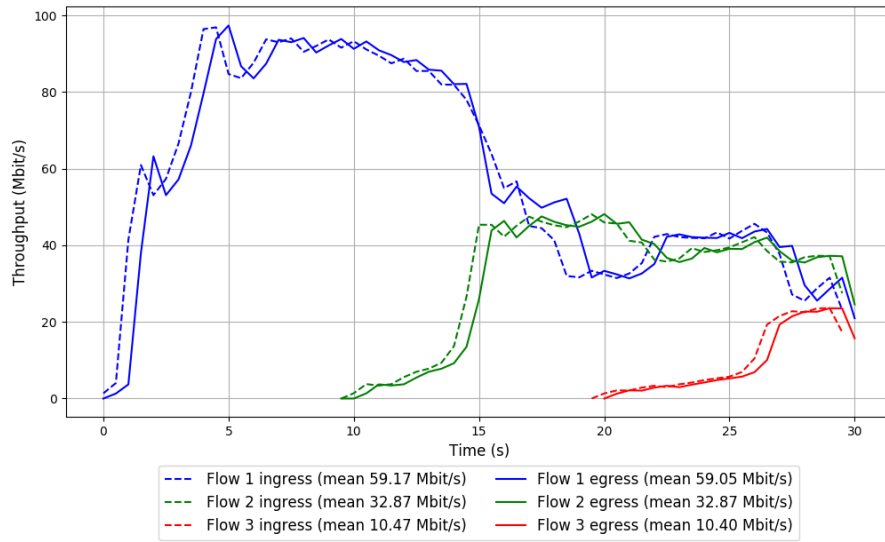
-- Flow 3:

Average throughput: 10.40 Mbit/s

95th percentile per-packet one-way delay: 16.437 ms

Loss rate: 1.17%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-09-18 22:46:20

End at: 2019-09-18 22:46:50

Local clock offset: 4.677 ms

Remote clock offset: 0.142 ms

Below is generated by plot.py at 2019-09-19 01:31:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 21.353 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 21.333 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 21.308 ms

Loss rate: 0.00%

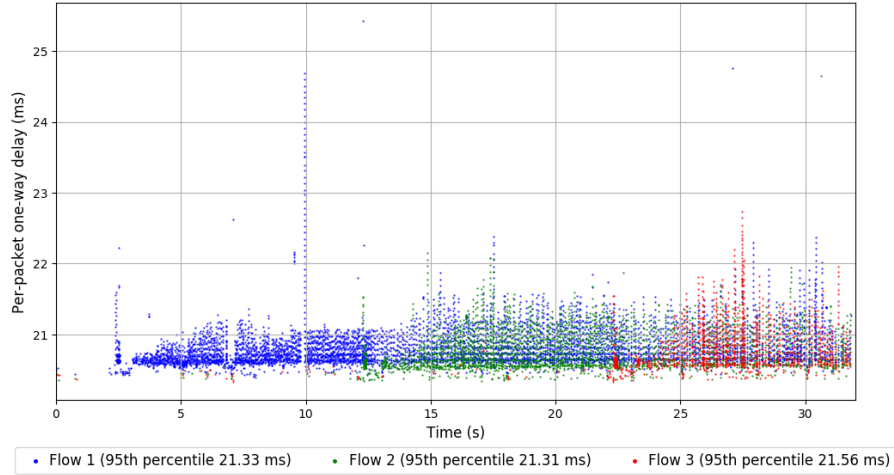
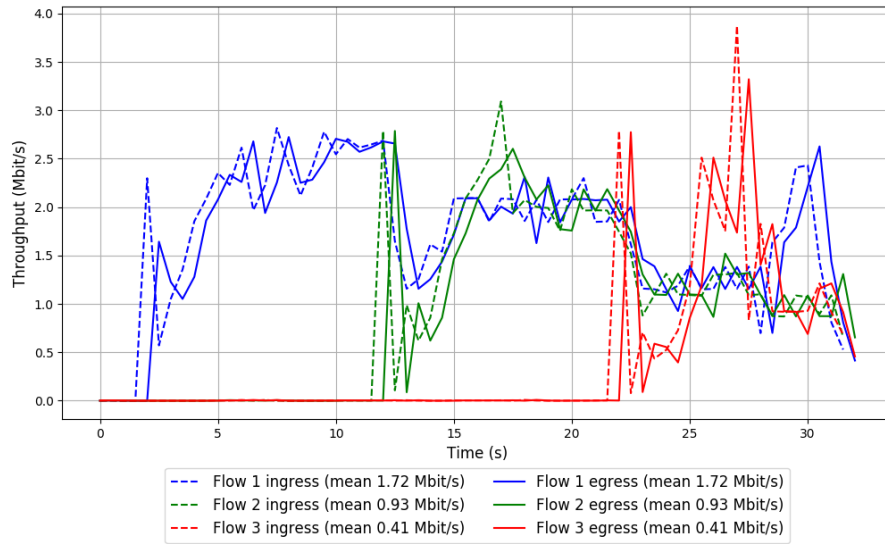
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 21.563 ms

Loss rate: 0.88%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-09-18 23:16:37

End at: 2019-09-18 23:17:07

Local clock offset: 2.333 ms

Remote clock offset: 1.531 ms

Below is generated by plot.py at 2019-09-19 01:31:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 16.844 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 16.853 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 16.863 ms

Loss rate: 0.00%

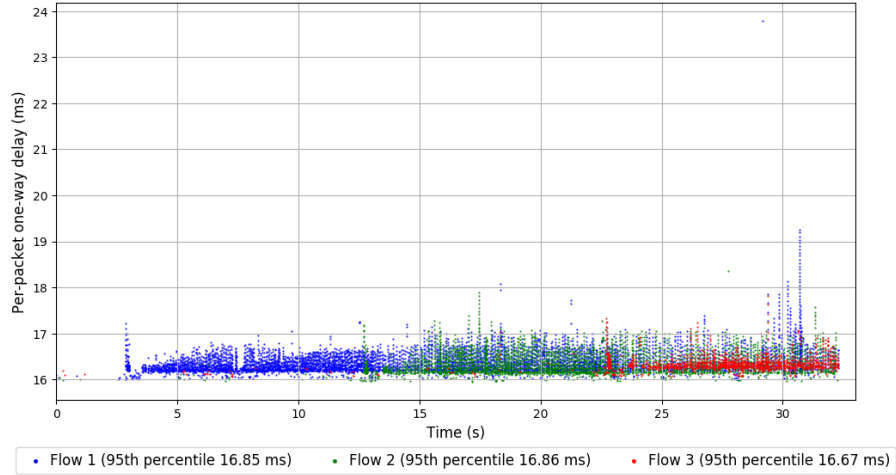
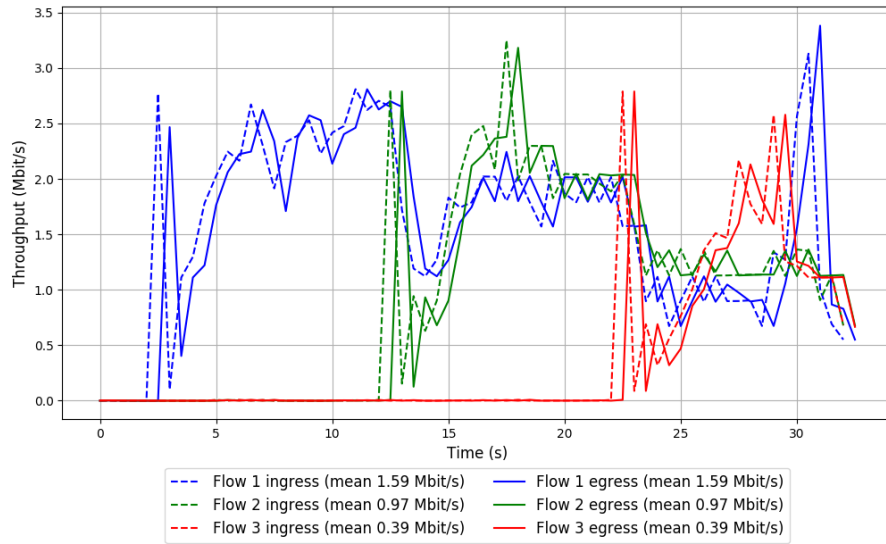
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 16.669 ms

Loss rate: 0.07%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-09-18 23:46:33

End at: 2019-09-18 23:47:03

Local clock offset: 5.417 ms

Remote clock offset: 1.752 ms

Below is generated by plot.py at 2019-09-19 01:31:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 21.357 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 21.273 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 21.383 ms

Loss rate: 0.38%

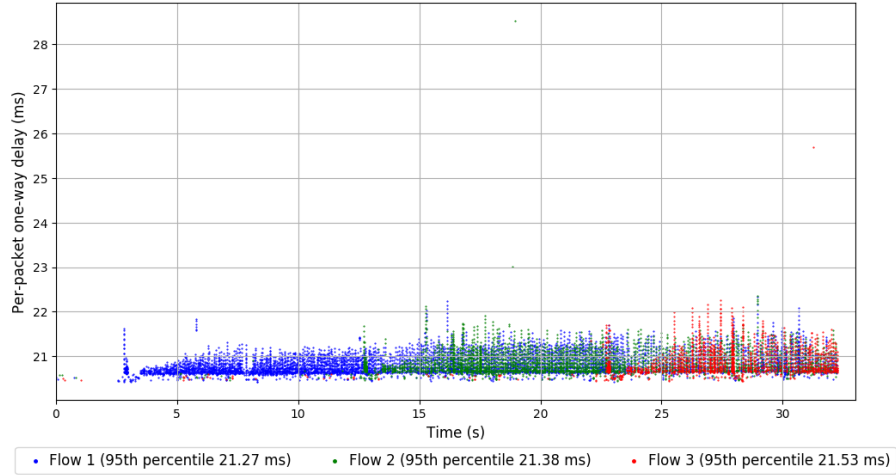
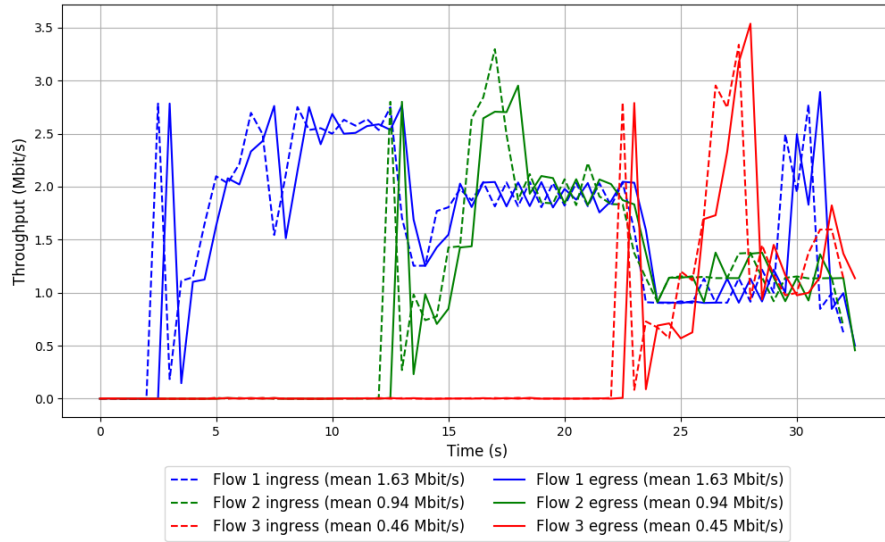
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 21.534 ms

Loss rate: 0.78%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-09-19 00:16:19

End at: 2019-09-19 00:16:49

Local clock offset: 6.443 ms

Remote clock offset: 0.126 ms

Below is generated by plot.py at 2019-09-19 01:31:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.83 Mbit/s

95th percentile per-packet one-way delay: 21.853 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 21.698 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 22.008 ms

Loss rate: 0.01%

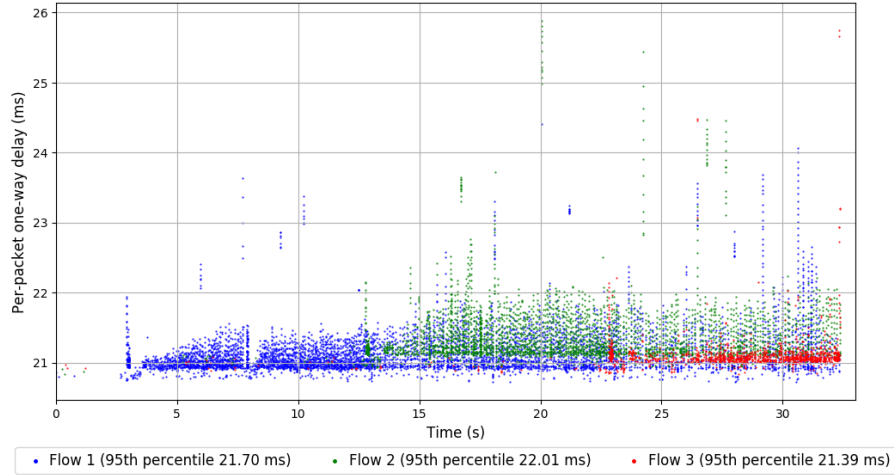
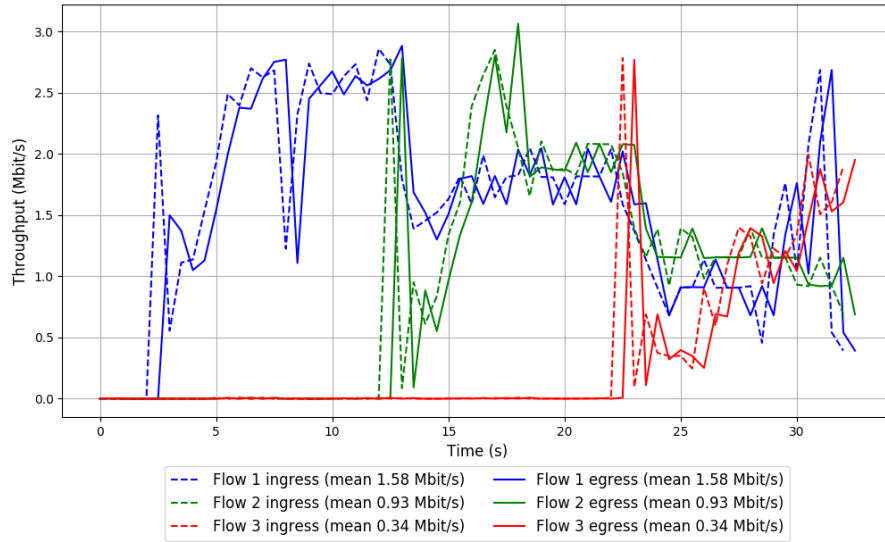
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 21.388 ms

Loss rate: 0.36%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-09-19 00:46:00
End at: 2019-09-19 00:46:30
Local clock offset: 0.055 ms
Remote clock offset: -2.029 ms

```
# Below is generated by plot.py at 2019-09-19 01:31:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.96 Mbit/s
95th percentile per-packet one-way delay: 18.129 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 17.984 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 18.180 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 18.288 ms
Loss rate: 0.01%
```

Run 5: Report of WebRTC media — Data Link

