

Pantheon Report

Generated at 2019-12-11 17:43:47 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

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

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

System info:

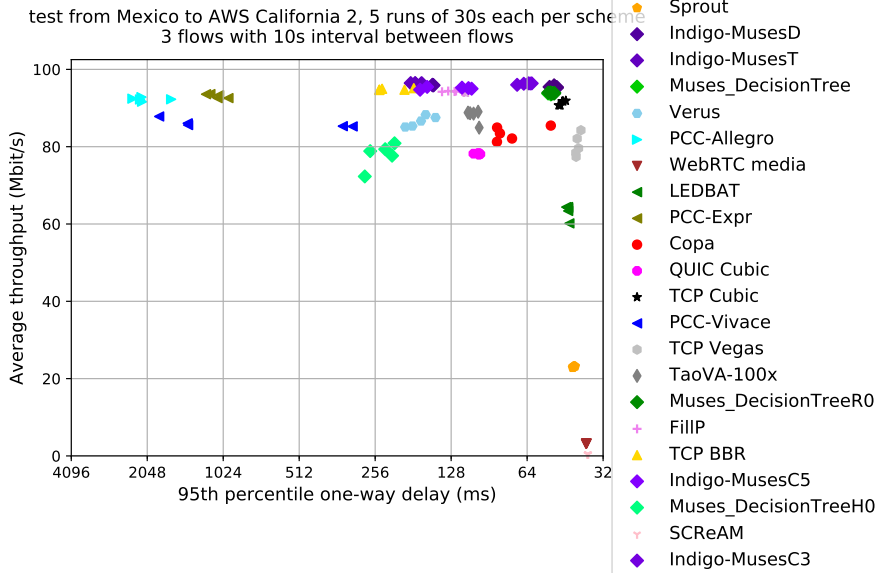
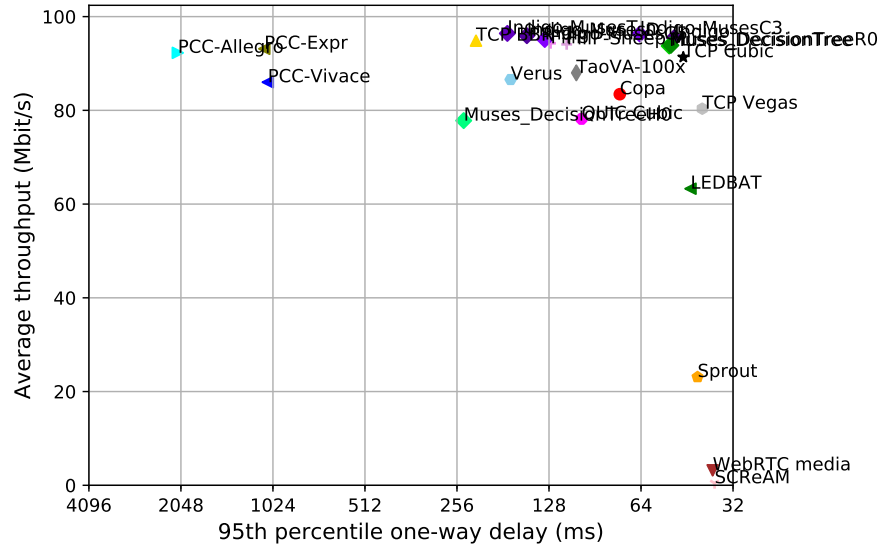
```
Linux 4.15.0-1054-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
```

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

test from Mexico to AWS California 2, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	58.09	41.83	27.05	222.94	148.35	334.74	1.14	1.31	3.04
Copa	5	48.45	37.07	31.20	95.28	56.93	51.62	0.16	0.32	0.69
TCP Cubic	5	56.87	36.49	30.81	46.67	47.17	52.27	0.17	0.38	0.78
FillP	5	56.92	41.12	30.30	97.06	141.31	117.80	0.35	4.25	3.75
FillP-Sheep	5	57.03	41.44	28.66	106.28	110.30	131.84	0.27	0.54	1.79
Indigo	5	57.37	42.10	31.19	52.63	48.05	47.55	0.22	0.37	0.84
Indigo-MusesC3	5	62.64	37.41	32.97	56.10	74.66	65.12	0.25	0.49	1.19
Indigo-MusesC5	5	60.13	39.84	31.78	111.29	146.52	129.53	1.20	3.91	5.31
Indigo-MusesD	5	59.61	42.71	30.06	152.95	126.79	93.53	5.71	9.62	5.53
Indigo-MusesT	5	61.87	40.17	29.63	124.37	191.00	271.58	2.74	6.27	8.32
LEDBAT	5	37.05	30.03	18.89	43.88	44.46	44.25	0.20	0.32	1.19
Muses_DecisionTree	5	55.74	40.77	34.02	49.59	53.31	57.34	0.21	0.32	0.86
Muses_DecisionTreeH0	5	47.01	31.89	29.95	234.14	272.83	193.52	0.80	1.10	2.41
Muses_DecisionTreeR0	5	56.28	42.46	29.35	49.98	50.49	70.54	0.15	0.35	0.81
PCC-Allegro	5	58.07	40.79	21.58	2126.25	1043.06	611.67	11.28	6.95	7.32
PCC-Expr	5	59.36	38.07	25.80	848.12	1144.77	256.25	39.57	29.07	4.92
QUIC Cubic	5	44.17	38.09	26.41	94.85	104.76	132.08	0.21	0.45	1.04
SCReAM	5	0.22	0.22	0.22	36.77	36.72	36.76	0.26	0.39	0.63
Sprout	5	11.72	11.60	11.19	41.80	41.75	41.90	0.24	0.36	0.80
TaoVA-100x	5	40.98	33.47	83.48	104.47	123.75	53.28	0.06	0.10	0.83
TCP Vegas	5	46.97	32.94	34.65	40.37	39.07	41.20	0.20	0.33	0.88
Verus	5	53.20	37.17	26.26	159.37	154.33	409.83	0.37	0.87	1.65
PCC-Vivace	5	53.48	36.24	25.65	944.25	478.92	192.60	2.94	3.46	2.54
WebRTC media	5	1.78	1.00	0.43	37.26	37.29	37.49	0.13	0.24	0.75

Run 1: Statistics of TCP BBR

Start at: 2019-12-11 15:06:23

End at: 2019-12-11 15:06:53

Local clock offset: 1.398 ms

Remote clock offset: 3.28 ms

Below is generated by plot.py at 2019-12-11 17:26:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 179.919 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 58.43 Mbit/s

95th percentile per-packet one-way delay: 180.185 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 39.51 Mbit/s

95th percentile per-packet one-way delay: 173.637 ms

Loss rate: 0.86%

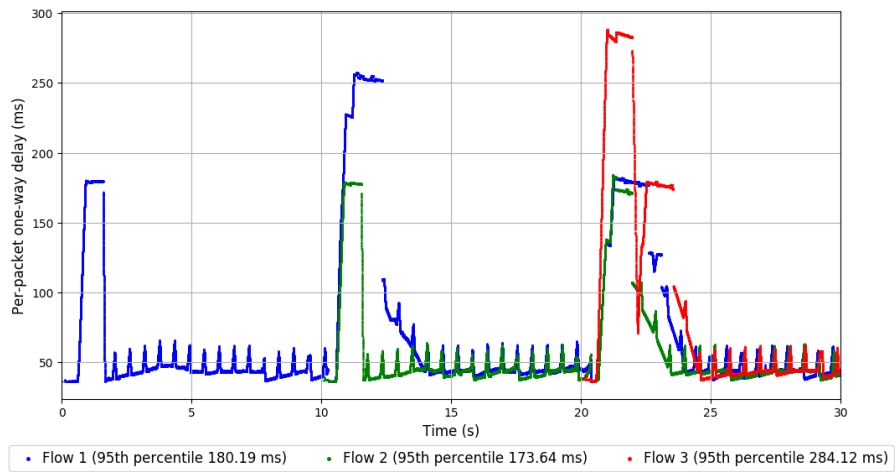
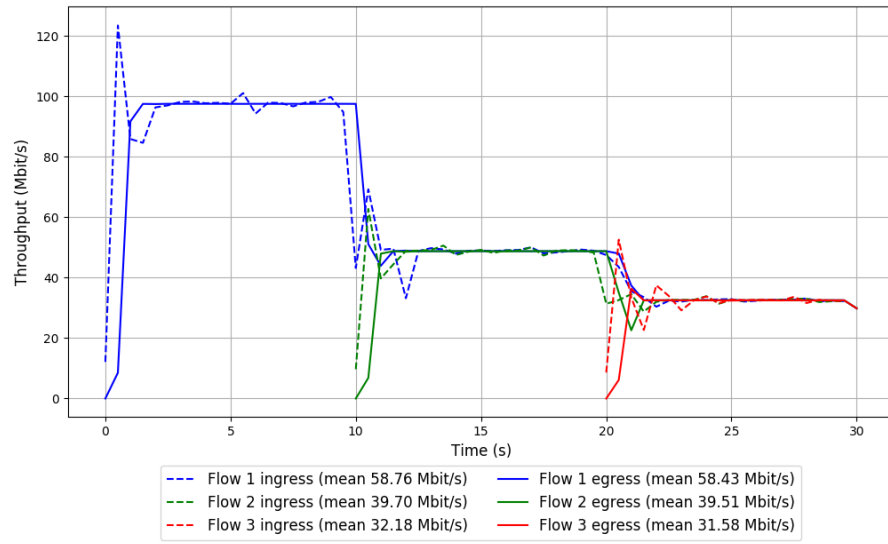
-- Flow 3:

Average throughput: 31.58 Mbit/s

95th percentile per-packet one-way delay: 284.117 ms

Loss rate: 2.56%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-12-11 15:36:17

End at: 2019-12-11 15:36:47

Local clock offset: 2.004 ms

Remote clock offset: 3.67 ms

Below is generated by plot.py at 2019-12-11 17:26:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.99 Mbit/s

95th percentile per-packet one-way delay: 240.309 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 55.77 Mbit/s

95th percentile per-packet one-way delay: 308.719 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 47.14 Mbit/s

95th percentile per-packet one-way delay: 73.811 ms

Loss rate: 0.96%

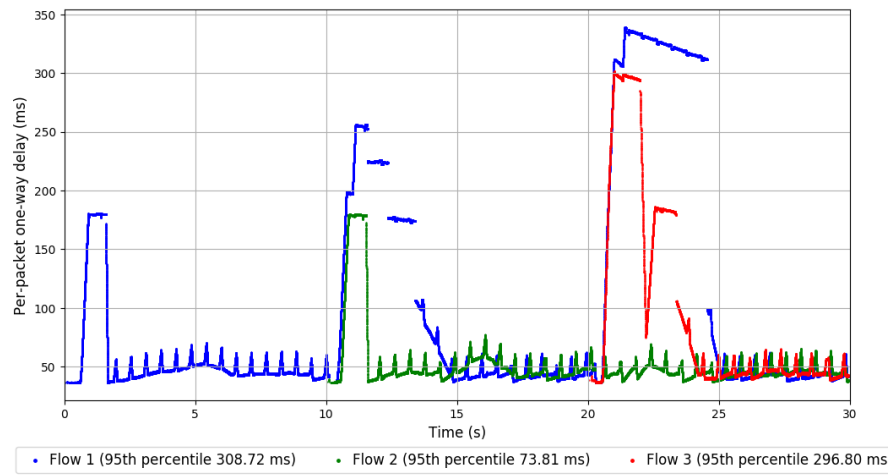
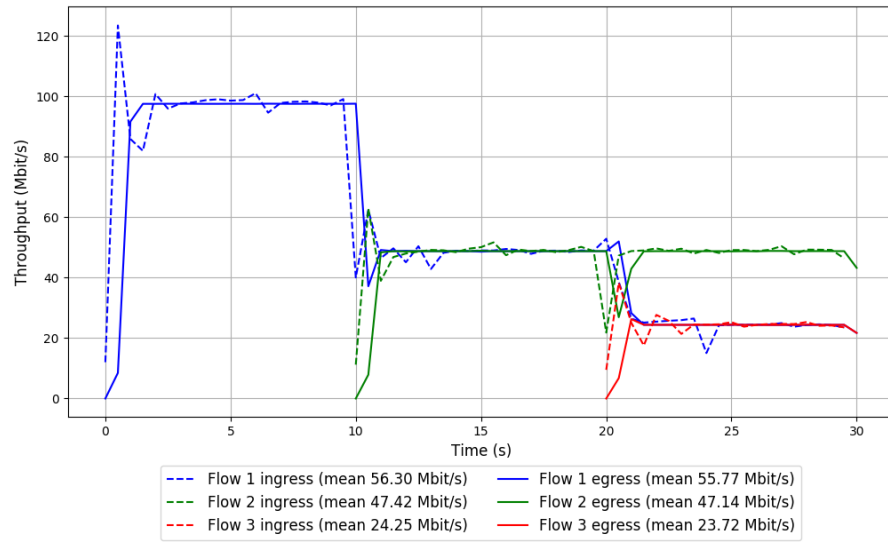
-- Flow 3:

Average throughput: 23.72 Mbit/s

95th percentile per-packet one-way delay: 296.799 ms

Loss rate: 2.89%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-12-11 16:06:40

End at: 2019-12-11 16:07:10

Local clock offset: 0.945 ms

Remote clock offset: 3.867 ms

Below is generated by plot.py at 2019-12-11 17:26:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 195.902 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 57.91 Mbit/s

95th percentile per-packet one-way delay: 197.849 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 39.58 Mbit/s

95th percentile per-packet one-way delay: 171.700 ms

Loss rate: 1.84%

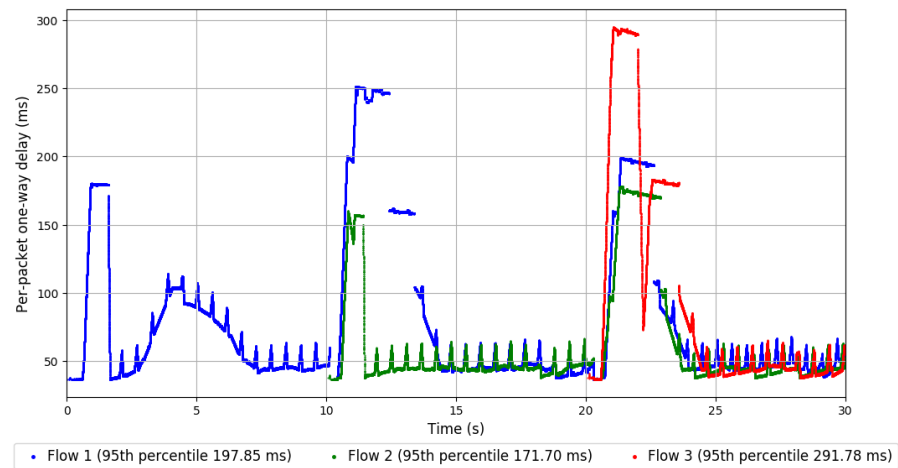
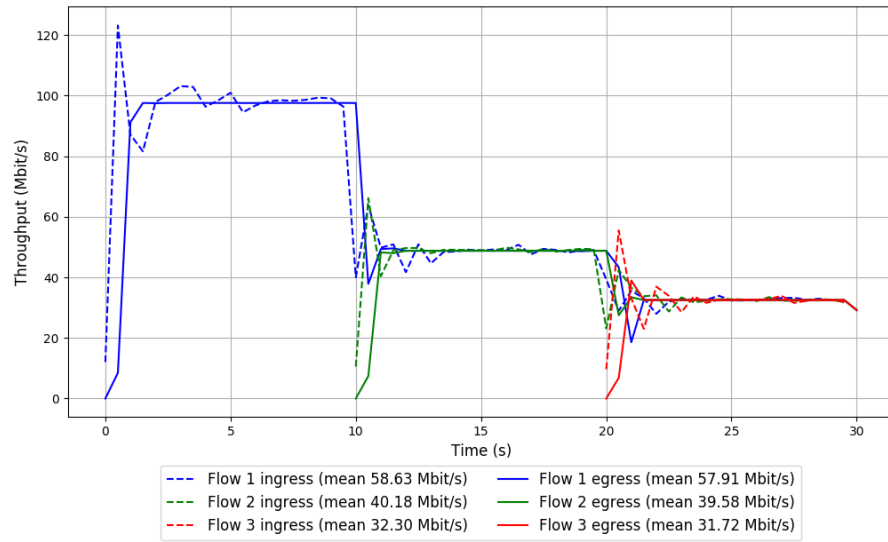
-- Flow 3:

Average throughput: 31.72 Mbit/s

95th percentile per-packet one-way delay: 291.777 ms

Loss rate: 2.50%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-12-11 16:37:33

End at: 2019-12-11 16:38:03

Local clock offset: -2.167 ms

Remote clock offset: 3.629 ms

Below is generated by plot.py at 2019-12-11 17:26:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.67 Mbit/s

95th percentile per-packet one-way delay: 246.583 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 62.90 Mbit/s

95th percentile per-packet one-way delay: 181.291 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 35.79 Mbit/s

95th percentile per-packet one-way delay: 241.983 ms

Loss rate: 1.36%

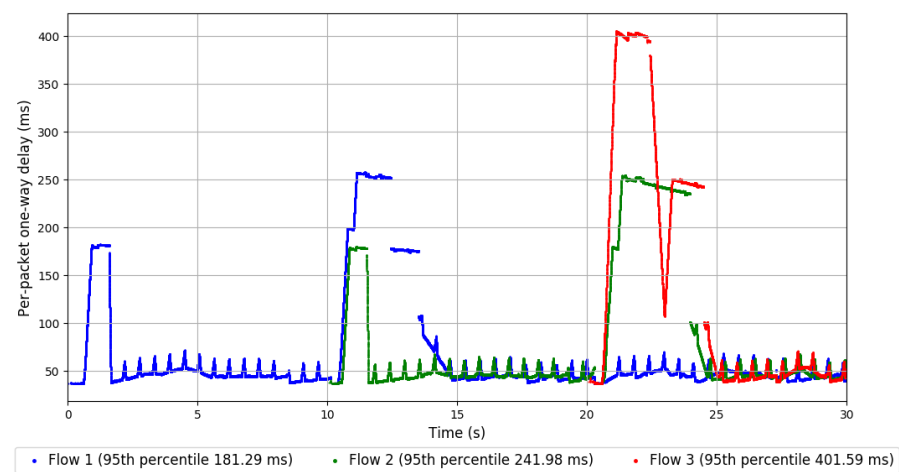
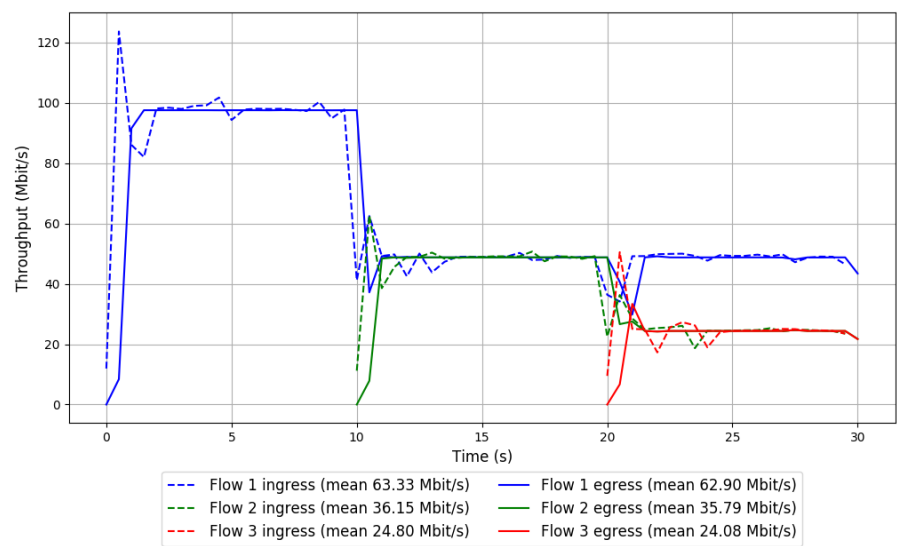
-- Flow 3:

Average throughput: 24.08 Mbit/s

95th percentile per-packet one-way delay: 401.588 ms

Loss rate: 3.61%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-12-11 17:09:39

End at: 2019-12-11 17:10:09

Local clock offset: 1.209 ms

Remote clock offset: 1.991 ms

Below is generated by plot.py at 2019-12-11 17:26:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.78 Mbit/s

95th percentile per-packet one-way delay: 246.394 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 55.42 Mbit/s

95th percentile per-packet one-way delay: 246.662 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 47.15 Mbit/s

95th percentile per-packet one-way delay: 80.631 ms

Loss rate: 1.55%

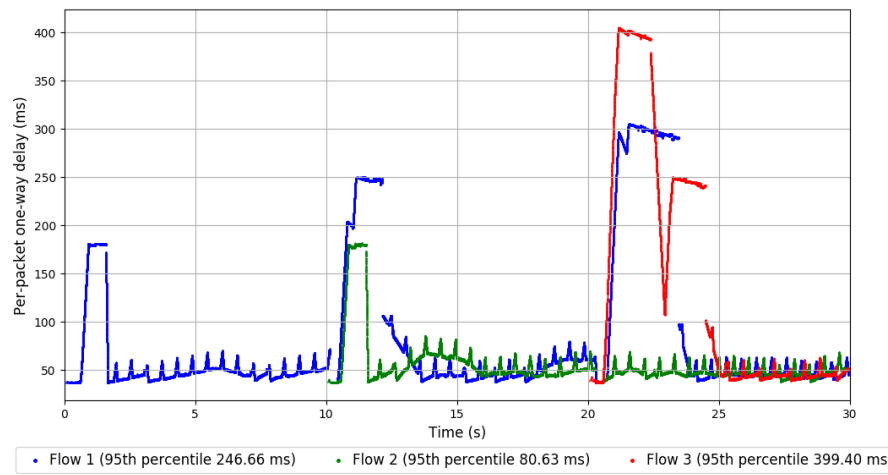
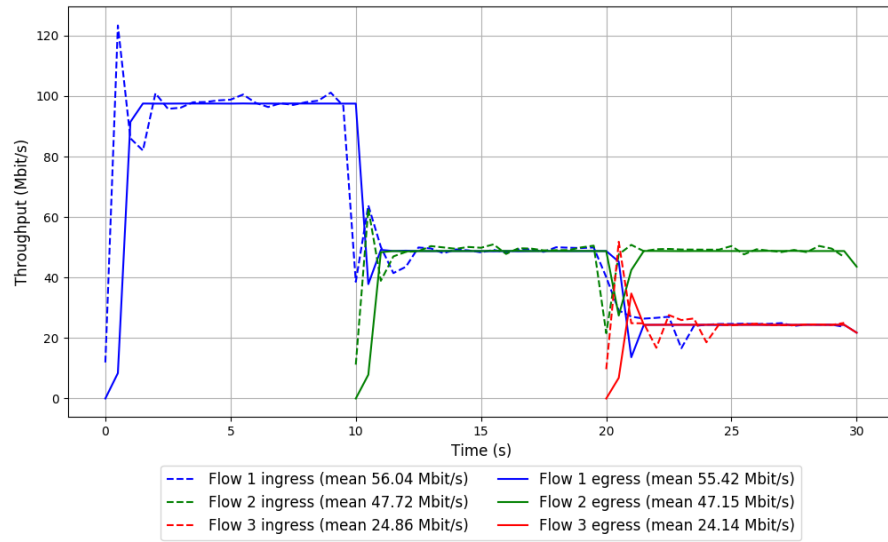
-- Flow 3:

Average throughput: 24.14 Mbit/s

95th percentile per-packet one-way delay: 399.405 ms

Loss rate: 3.63%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-12-11 14:51:34

End at: 2019-12-11 14:52:04

Local clock offset: 0.397 ms

Remote clock offset: 2.941 ms

Below is generated by plot.py at 2019-12-11 17:27:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.46 Mbit/s

95th percentile per-packet one-way delay: 51.565 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 50.33 Mbit/s

95th percentile per-packet one-way delay: 57.379 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 32.06 Mbit/s

95th percentile per-packet one-way delay: 45.147 ms

Loss rate: 0.18%

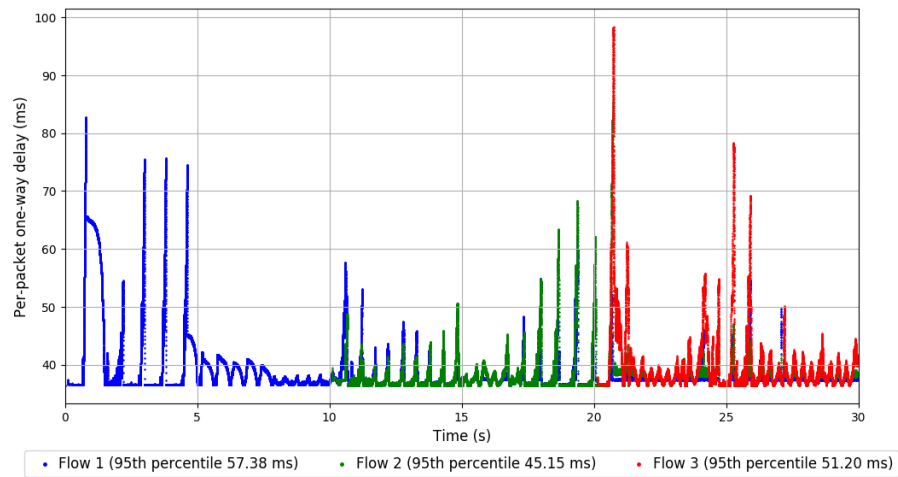
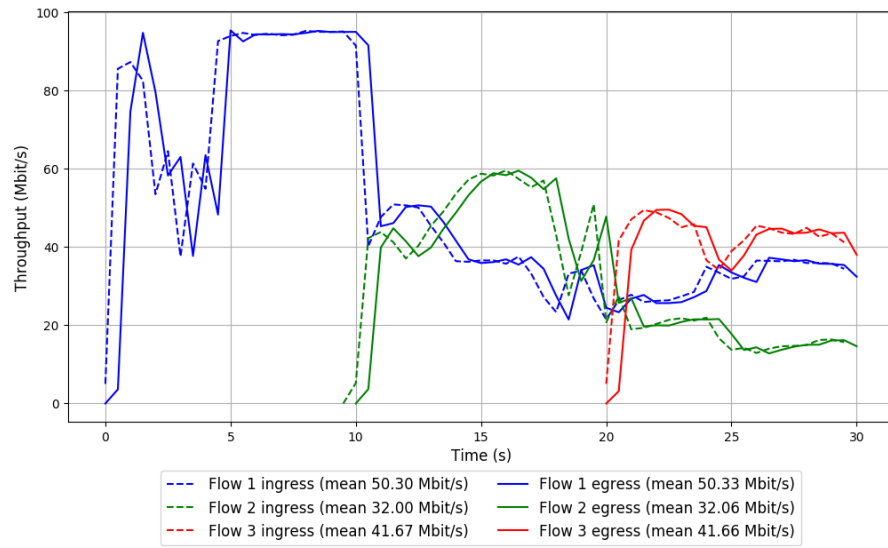
-- Flow 3:

Average throughput: 41.66 Mbit/s

95th percentile per-packet one-way delay: 51.196 ms

Loss rate: 0.75%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-12-11 15:21:09

End at: 2019-12-11 15:21:39

Local clock offset: 1.678 ms

Remote clock offset: 3.577 ms

Below is generated by plot.py at 2019-12-11 17:27:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.95 Mbit/s

95th percentile per-packet one-way delay: 84.174 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 44.44 Mbit/s

95th percentile per-packet one-way delay: 105.424 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 45.25 Mbit/s

95th percentile per-packet one-way delay: 64.854 ms

Loss rate: 0.31%

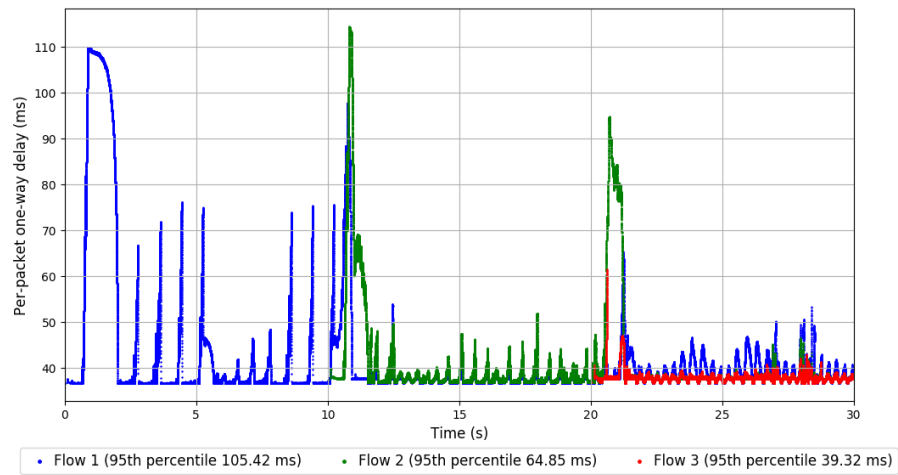
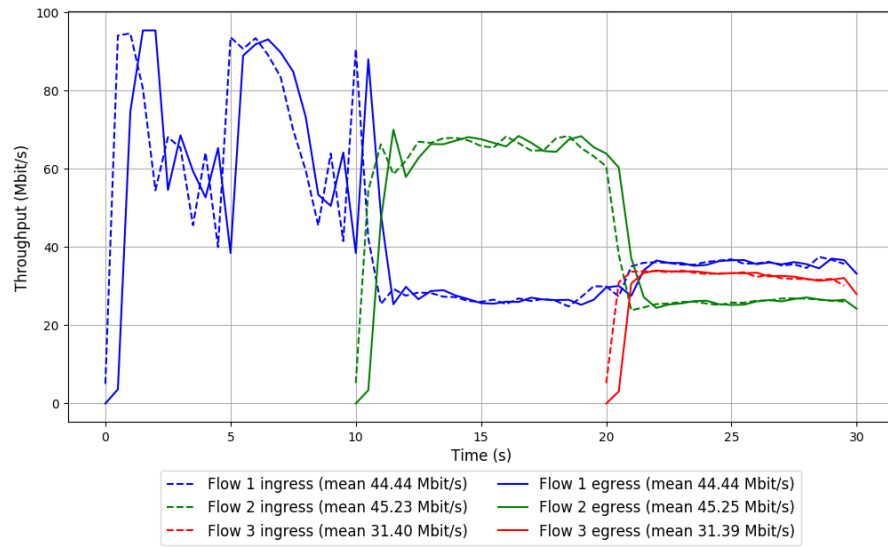
-- Flow 3:

Average throughput: 31.39 Mbit/s

95th percentile per-packet one-way delay: 39.323 ms

Loss rate: 0.75%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-12-11 15:51:43

End at: 2019-12-11 15:52:13

Local clock offset: 1.129 ms

Remote clock offset: 3.677 ms

Below is generated by plot.py at 2019-12-11 17:27:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.44 Mbit/s

95th percentile per-packet one-way delay: 82.018 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 49.31 Mbit/s

95th percentile per-packet one-way delay: 104.579 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 35.89 Mbit/s

95th percentile per-packet one-way delay: 61.370 ms

Loss rate: 0.35%

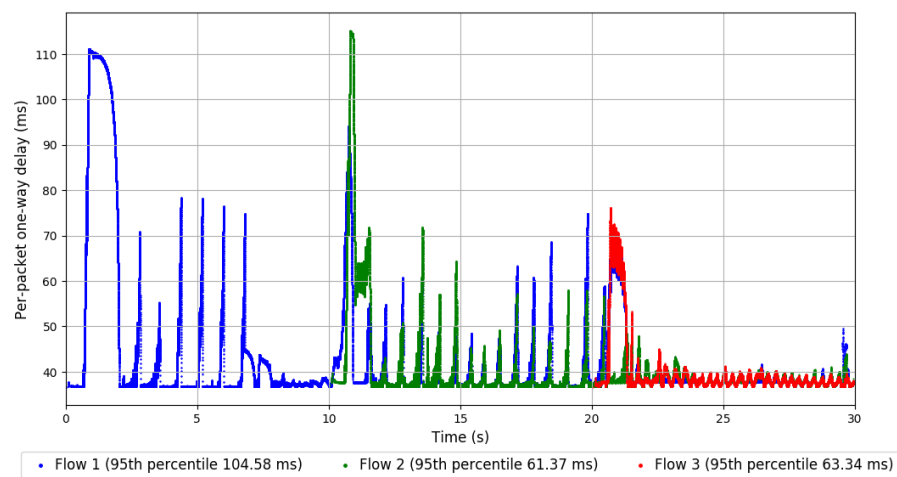
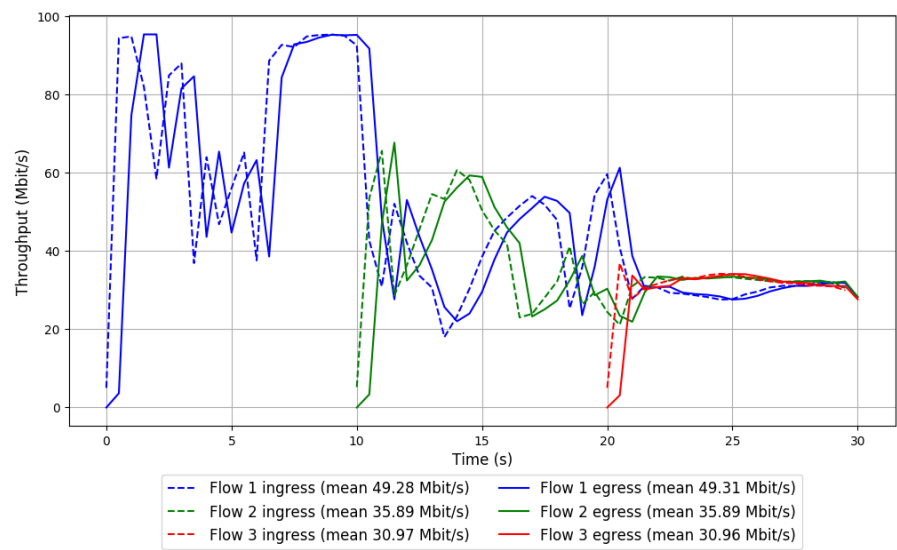
-- Flow 3:

Average throughput: 30.96 Mbit/s

95th percentile per-packet one-way delay: 63.344 ms

Loss rate: 0.78%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-12-11 16:21:49

End at: 2019-12-11 16:22:19

Local clock offset: -1.266 ms

Remote clock offset: 3.466 ms

Below is generated by plot.py at 2019-12-11 17:28:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.25 Mbit/s

95th percentile per-packet one-way delay: 84.280 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 46.81 Mbit/s

95th percentile per-packet one-way delay: 105.429 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 37.17 Mbit/s

95th percentile per-packet one-way delay: 66.388 ms

Loss rate: 0.33%

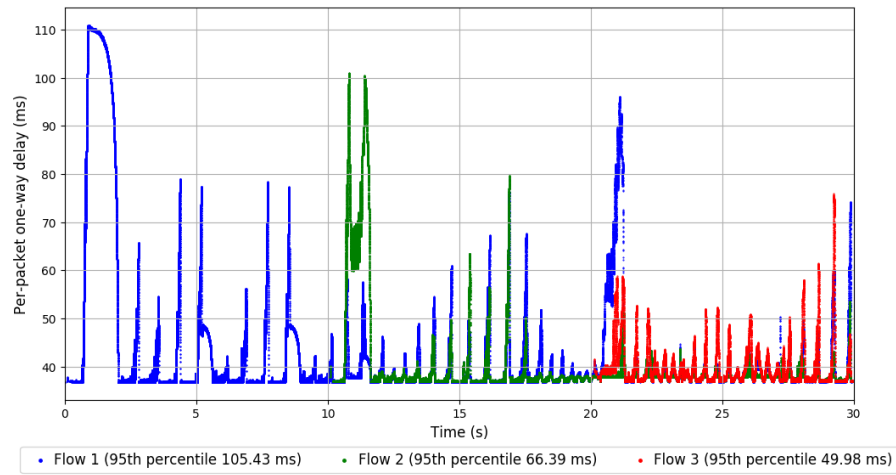
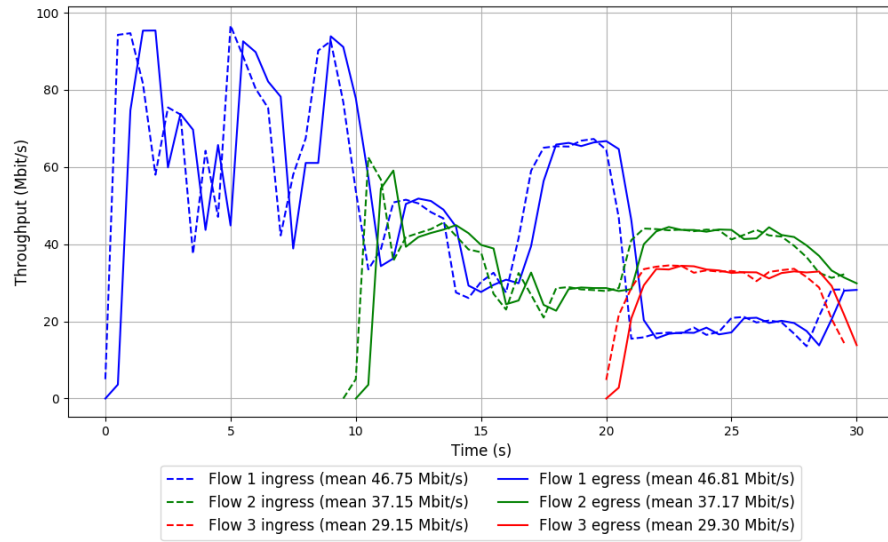
-- Flow 3:

Average throughput: 29.30 Mbit/s

95th percentile per-packet one-way delay: 49.979 ms

Loss rate: 0.22%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-12-11 16:53:00

End at: 2019-12-11 16:53:30

Local clock offset: 0.554 ms

Remote clock offset: 2.265 ms

Below is generated by plot.py at 2019-12-11 17:28:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.12 Mbit/s

95th percentile per-packet one-way delay: 73.458 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 51.34 Mbit/s

95th percentile per-packet one-way delay: 103.580 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 34.96 Mbit/s

95th percentile per-packet one-way delay: 46.915 ms

Loss rate: 0.41%

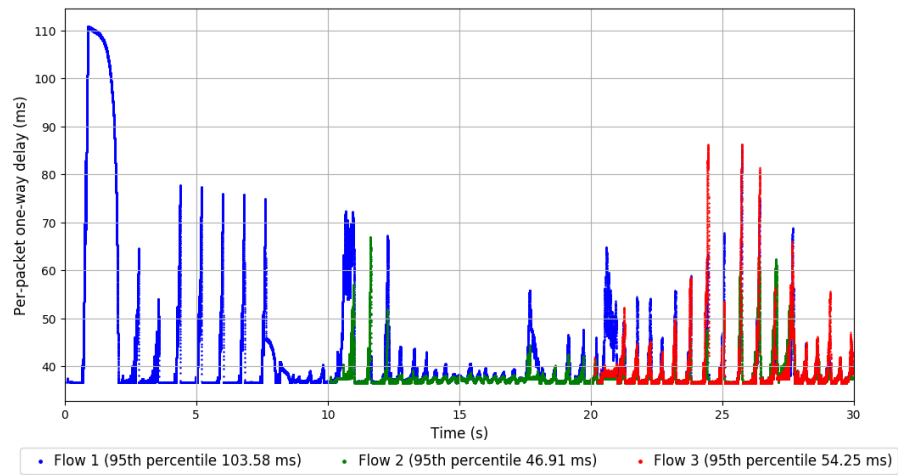
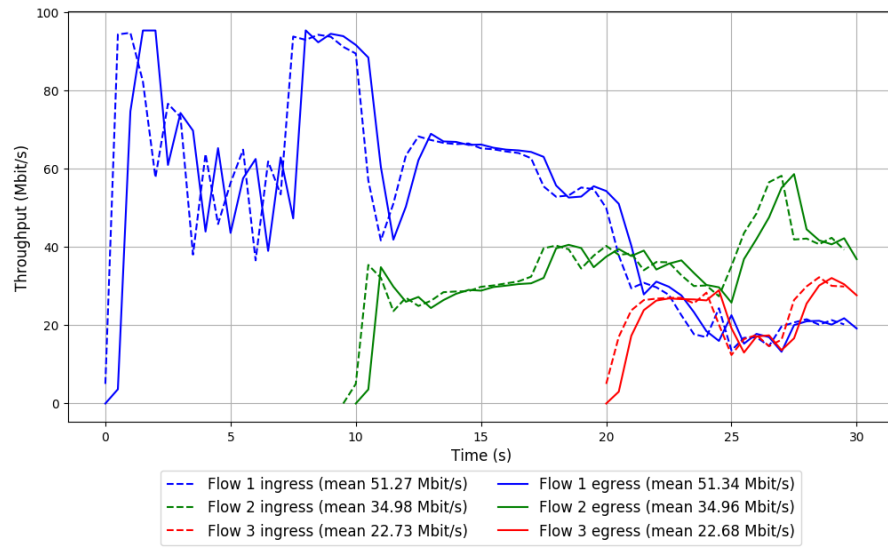
-- Flow 3:

Average throughput: 22.68 Mbit/s

95th percentile per-packet one-way delay: 54.246 ms

Loss rate: 0.94%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-12-11 15:05:08

End at: 2019-12-11 15:05:38

Local clock offset: 1.324 ms

Remote clock offset: 3.142 ms

Below is generated by plot.py at 2019-12-11 17:28:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.69 Mbit/s

95th percentile per-packet one-way delay: 48.021 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 54.91 Mbit/s

95th percentile per-packet one-way delay: 49.850 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 41.12 Mbit/s

95th percentile per-packet one-way delay: 44.974 ms

Loss rate: 0.47%

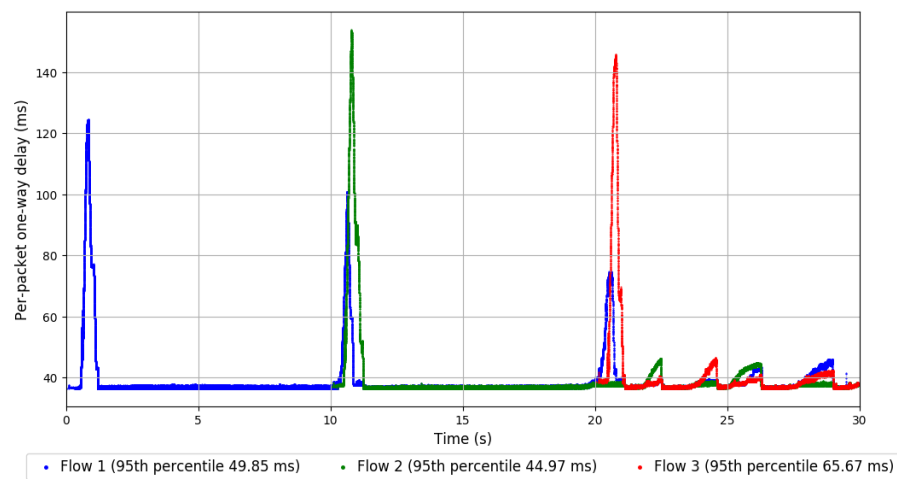
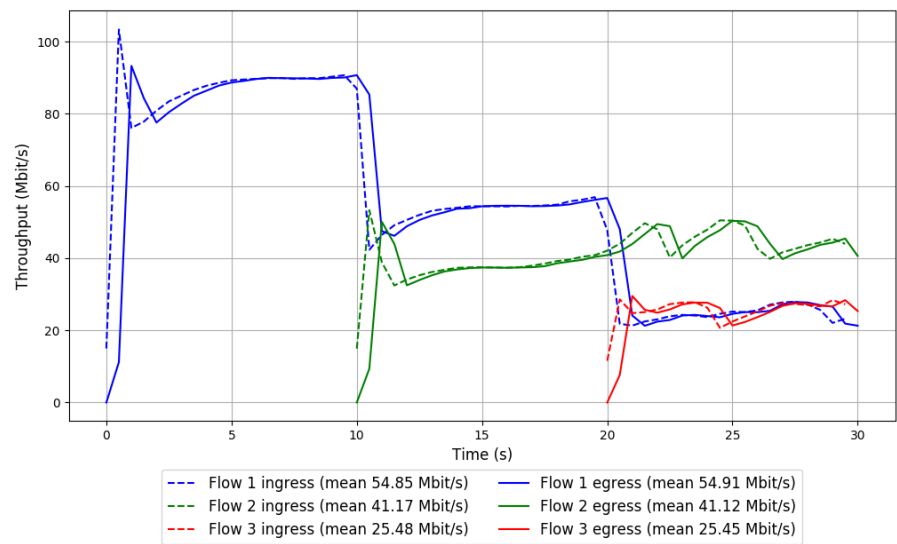
-- Flow 3:

Average throughput: 25.45 Mbit/s

95th percentile per-packet one-way delay: 65.669 ms

Loss rate: 0.85%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-12-11 15:35:03

End at: 2019-12-11 15:35:33

Local clock offset: 1.973 ms

Remote clock offset: 3.715 ms

Below is generated by plot.py at 2019-12-11 17:28:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.67 Mbit/s

95th percentile per-packet one-way delay: 47.258 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 46.027 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 32.57 Mbit/s

95th percentile per-packet one-way delay: 53.665 ms

Loss rate: 0.41%

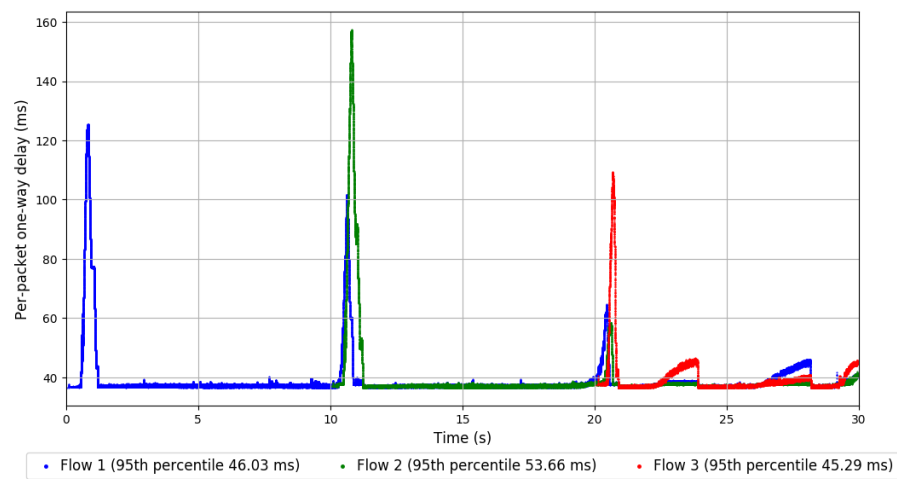
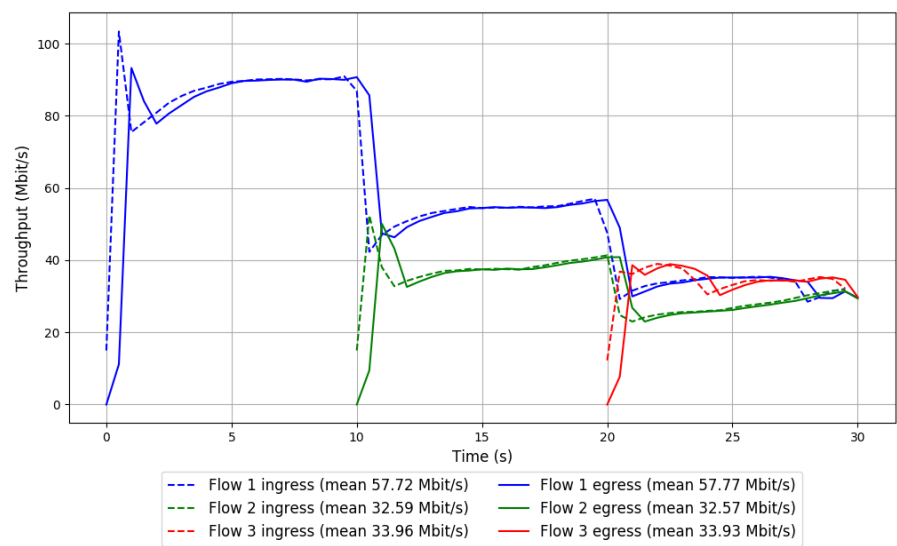
-- Flow 3:

Average throughput: 33.93 Mbit/s

95th percentile per-packet one-way delay: 45.287 ms

Loss rate: 0.80%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-12-11 16:05:26

End at: 2019-12-11 16:05:56

Local clock offset: 0.961 ms

Remote clock offset: 3.944 ms

Below is generated by plot.py at 2019-12-11 17:28:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 46.049 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 55.40 Mbit/s

95th percentile per-packet one-way delay: 46.647 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 37.35 Mbit/s

95th percentile per-packet one-way delay: 45.962 ms

Loss rate: 0.38%

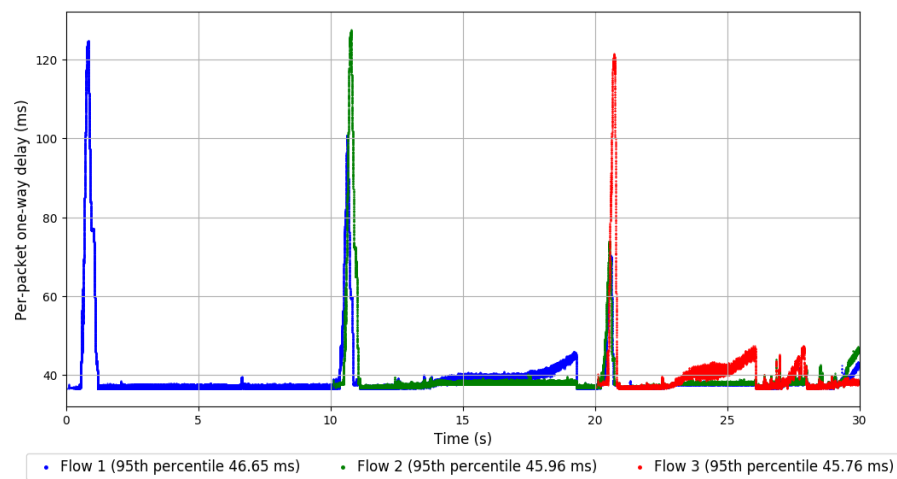
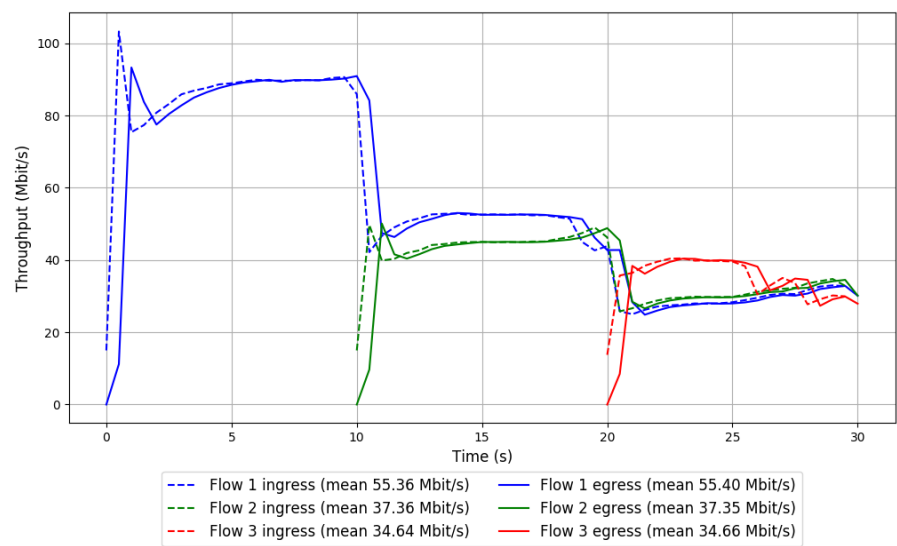
-- Flow 3:

Average throughput: 34.66 Mbit/s

95th percentile per-packet one-way delay: 45.757 ms

Loss rate: 0.68%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-12-11 16:36:16

End at: 2019-12-11 16:36:46

Local clock offset: -2.135 ms

Remote clock offset: 3.711 ms

Below is generated by plot.py at 2019-12-11 17:28:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.75 Mbit/s

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

Loss rate: 0.29%

-- Flow 1:

Average throughput: 55.35 Mbit/s

95th percentile per-packet one-way delay: 46.200 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 37.41 Mbit/s

95th percentile per-packet one-way delay: 45.824 ms

Loss rate: 0.38%

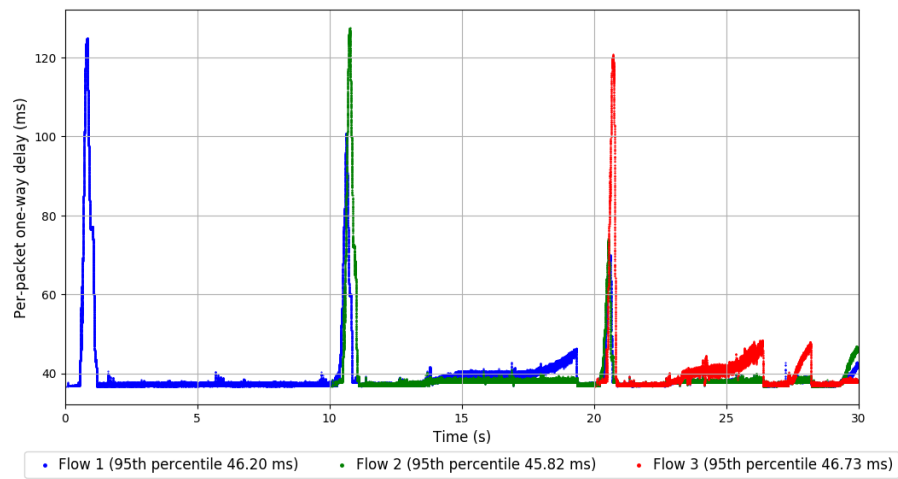
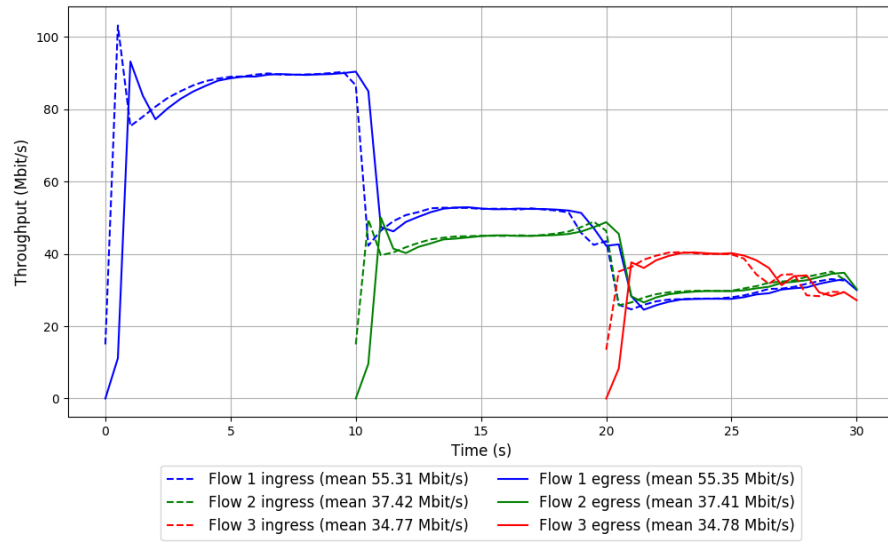
-- Flow 3:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 46.727 ms

Loss rate: 0.66%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-12-11 17:08:13

End at: 2019-12-11 17:08:43

Local clock offset: 1.276 ms

Remote clock offset: 2.028 ms

Below is generated by plot.py at 2019-12-11 17:28:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.90 Mbit/s

95th percentile per-packet one-way delay: 44.971 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 60.93 Mbit/s

95th percentile per-packet one-way delay: 44.641 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 33.99 Mbit/s

95th percentile per-packet one-way delay: 45.427 ms

Loss rate: 0.25%

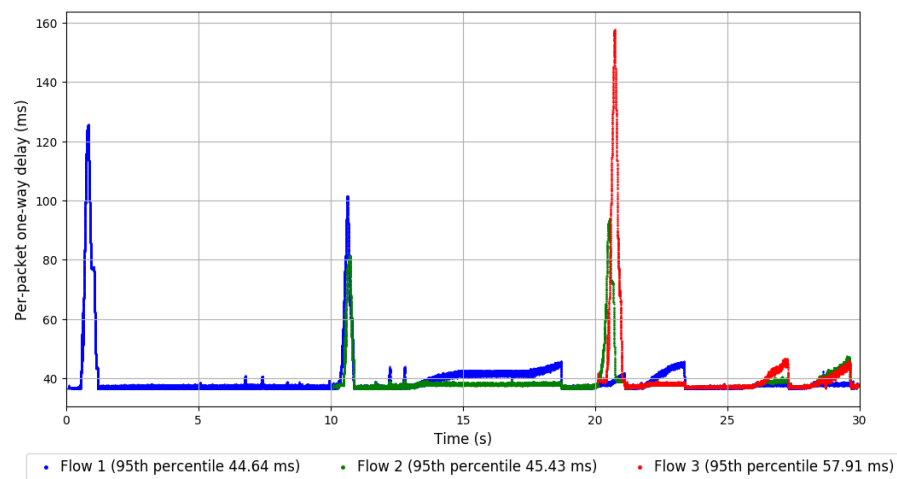
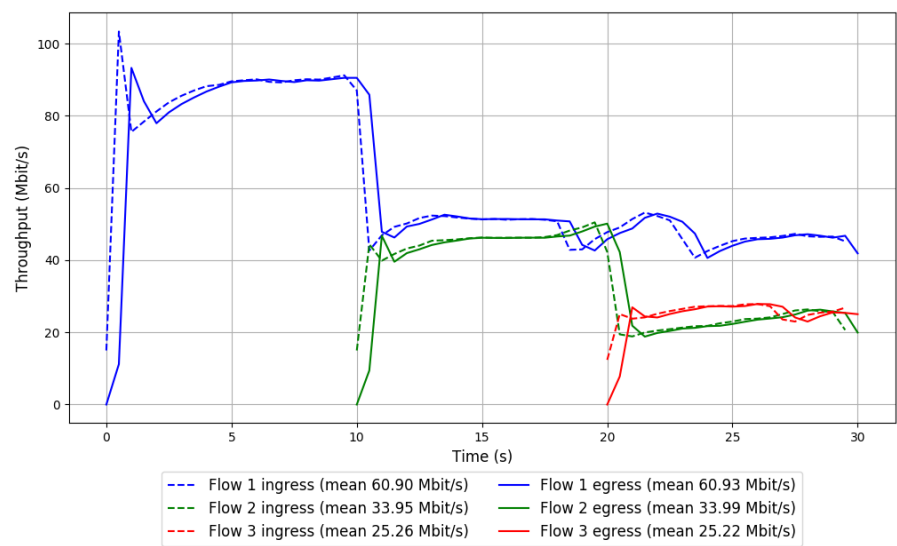
-- Flow 3:

Average throughput: 25.22 Mbit/s

95th percentile per-packet one-way delay: 57.908 ms

Loss rate: 0.89%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-12-11 15:03:54

End at: 2019-12-11 15:04:24

Local clock offset: 1.264 ms

Remote clock offset: 3.116 ms

Below is generated by plot.py at 2019-12-11 17:29:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.41 Mbit/s

95th percentile per-packet one-way delay: 122.470 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 54.40 Mbit/s

95th percentile per-packet one-way delay: 124.415 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 48.10 Mbit/s

95th percentile per-packet one-way delay: 120.586 ms

Loss rate: 1.01%

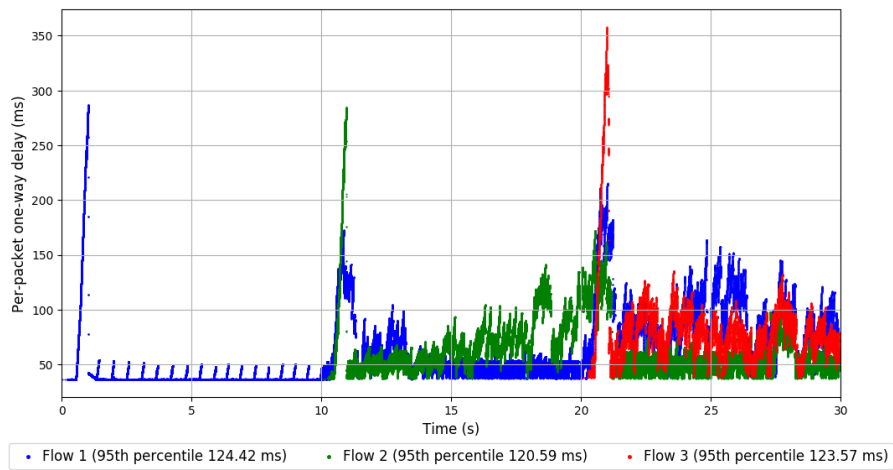
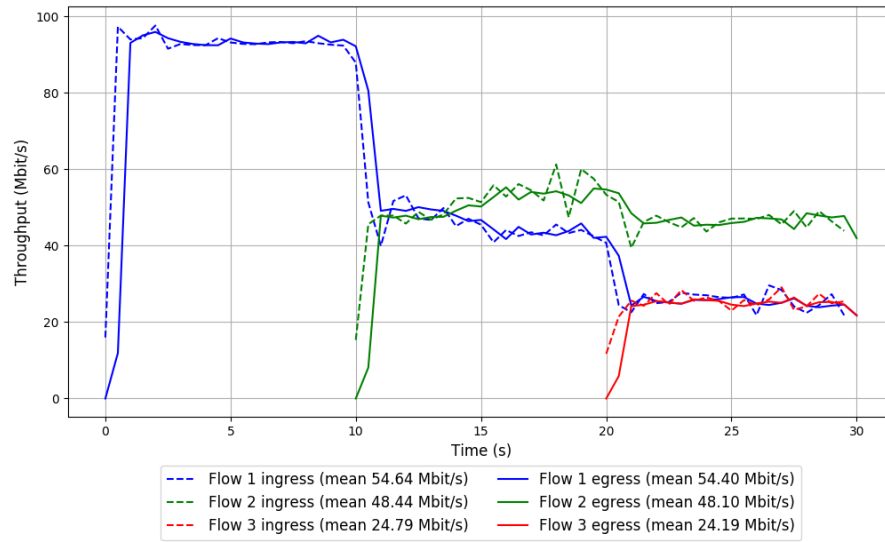
-- Flow 3:

Average throughput: 24.19 Mbit/s

95th percentile per-packet one-way delay: 123.569 ms

Loss rate: 3.16%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-12-11 15:33:49

End at: 2019-12-11 15:34:19

Local clock offset: 1.956 ms

Remote clock offset: 3.66 ms

Below is generated by plot.py at 2019-12-11 17:29:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 131.483 ms

Loss rate: 2.37%

-- Flow 1:

Average throughput: 55.67 Mbit/s

95th percentile per-packet one-way delay: 95.998 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 42.17 Mbit/s

95th percentile per-packet one-way delay: 147.932 ms

Loss rate: 6.10%

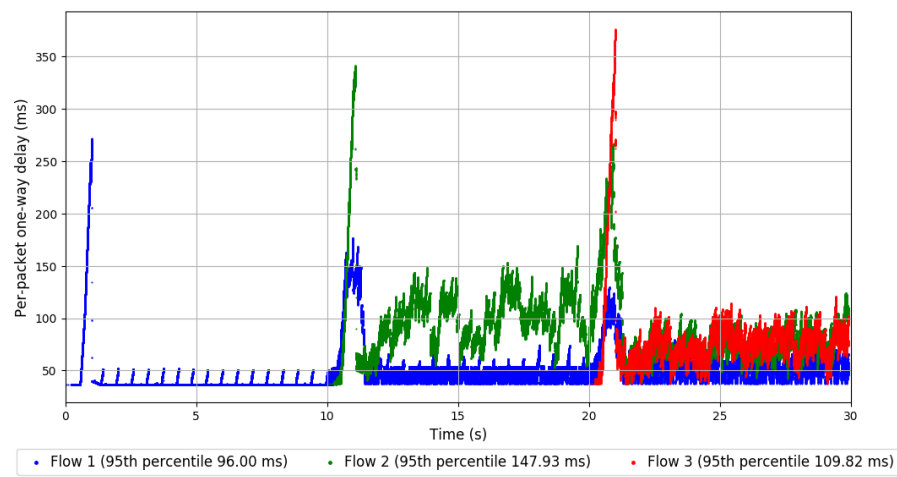
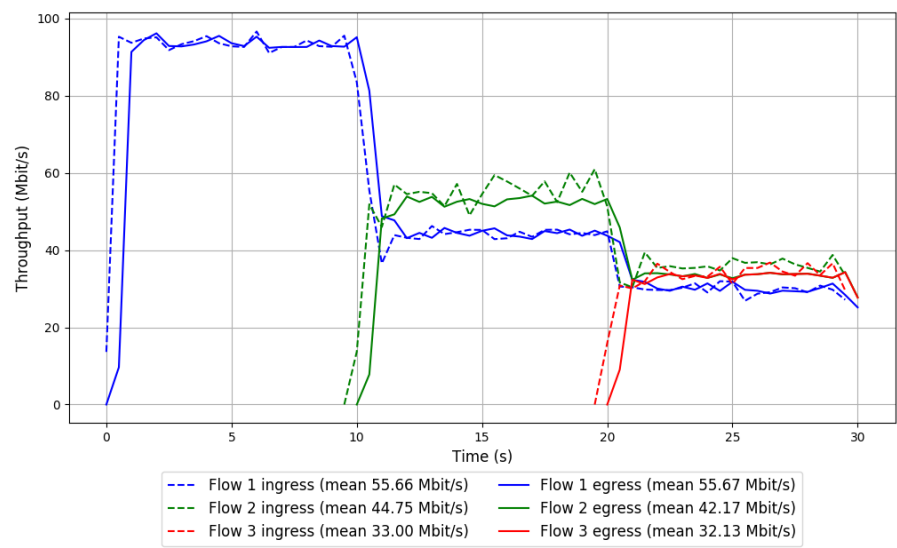
-- Flow 3:

Average throughput: 32.13 Mbit/s

95th percentile per-packet one-way delay: 109.823 ms

Loss rate: 3.18%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-12-11 16:04:12

End at: 2019-12-11 16:04:42

Local clock offset: 0.992 ms

Remote clock offset: 3.97 ms

Below is generated by plot.py at 2019-12-11 17:29:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.27 Mbit/s

95th percentile per-packet one-way delay: 115.569 ms

Loss rate: 2.15%

-- Flow 1:

Average throughput: 60.13 Mbit/s

95th percentile per-packet one-way delay: 68.891 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 38.92 Mbit/s

95th percentile per-packet one-way delay: 136.354 ms

Loss rate: 5.48%

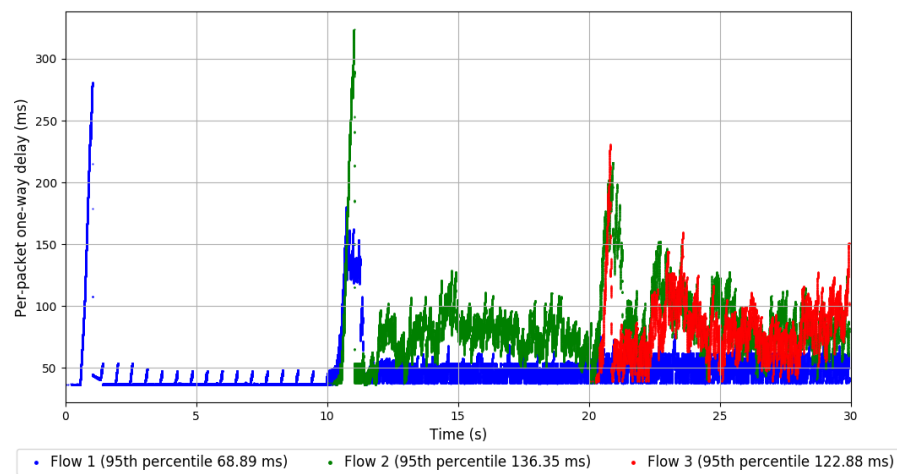
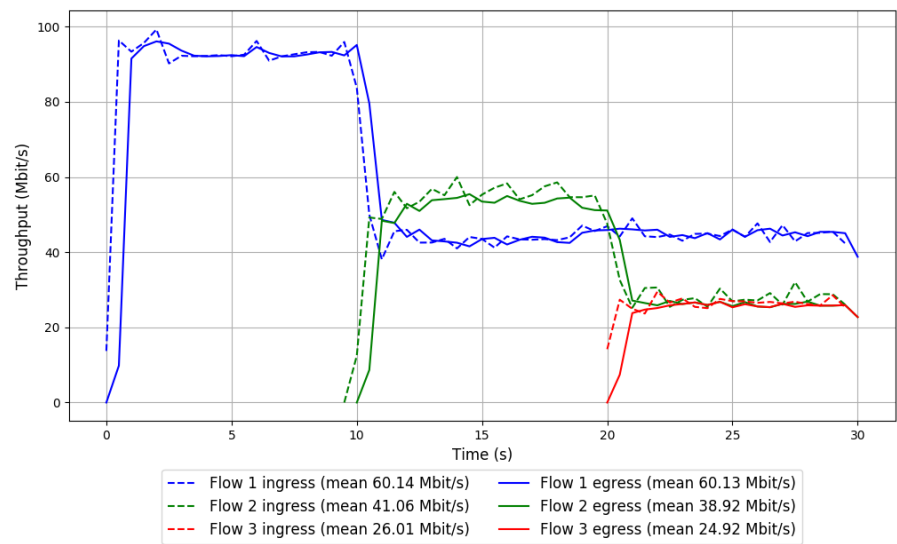
-- Flow 3:

Average throughput: 24.92 Mbit/s

95th percentile per-packet one-way delay: 122.877 ms

Loss rate: 4.93%

Run 3: Report of FillP — Data Link

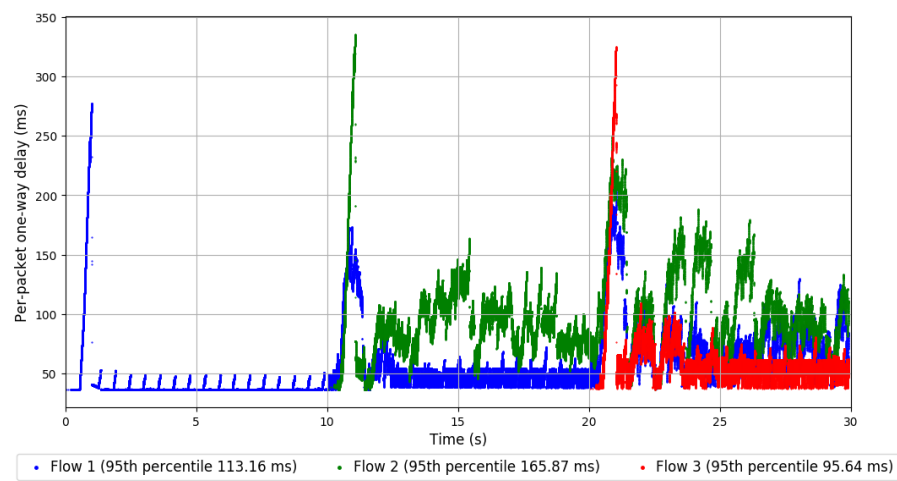
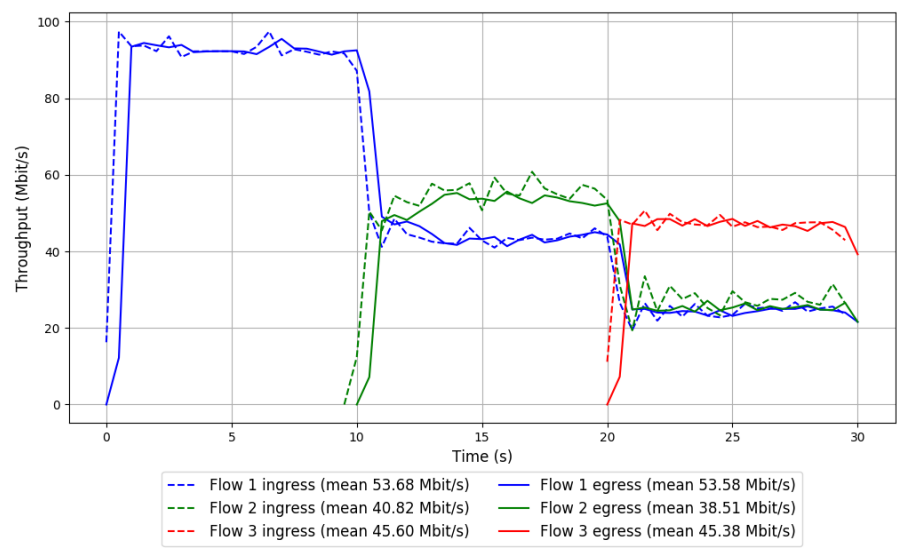


Run 4: Statistics of FillP

Start at: 2019-12-11 16:34:54
End at: 2019-12-11 16:35:24
Local clock offset: -2.081 ms
Remote clock offset: 3.649 ms

Below is generated by plot.py at 2019-12-11 17:29:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.21 Mbit/s
95th percentile per-packet one-way delay: 139.089 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 53.58 Mbit/s
95th percentile per-packet one-way delay: 113.164 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 38.51 Mbit/s
95th percentile per-packet one-way delay: 165.871 ms
Loss rate: 5.98%
-- Flow 3:
Average throughput: 45.38 Mbit/s
95th percentile per-packet one-way delay: 95.638 ms
Loss rate: 1.16%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-12-11 17:06:43

End at: 2019-12-11 17:07:13

Local clock offset: 1.216 ms

Remote clock offset: 1.961 ms

Below is generated by plot.py at 2019-12-11 17:30:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.26 Mbit/s

95th percentile per-packet one-way delay: 124.040 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 60.80 Mbit/s

95th percentile per-packet one-way delay: 82.811 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 37.91 Mbit/s

95th percentile per-packet one-way delay: 135.807 ms

Loss rate: 2.70%

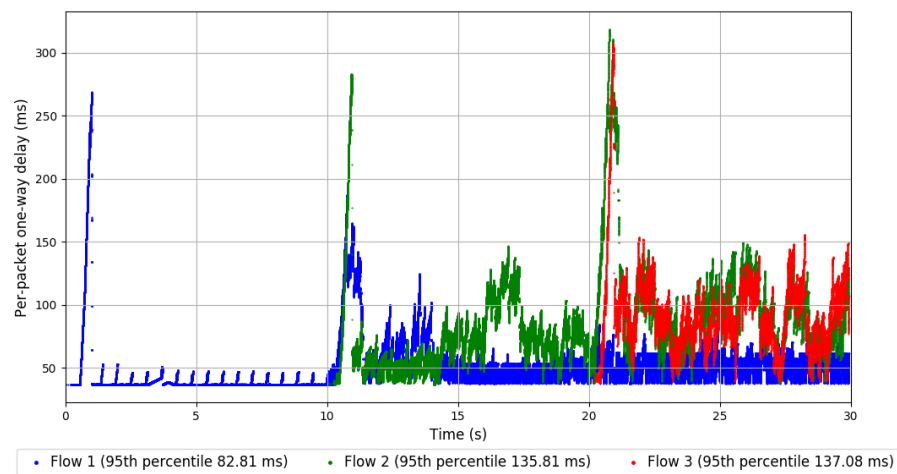
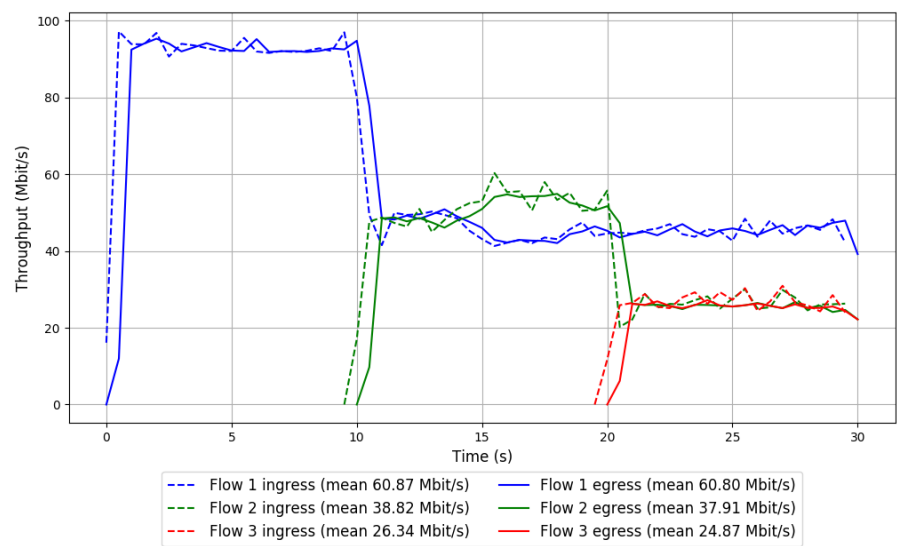
-- Flow 3:

Average throughput: 24.87 Mbit/s

95th percentile per-packet one-way delay: 137.077 ms

Loss rate: 6.31%

Run 5: Report of FillP — Data Link

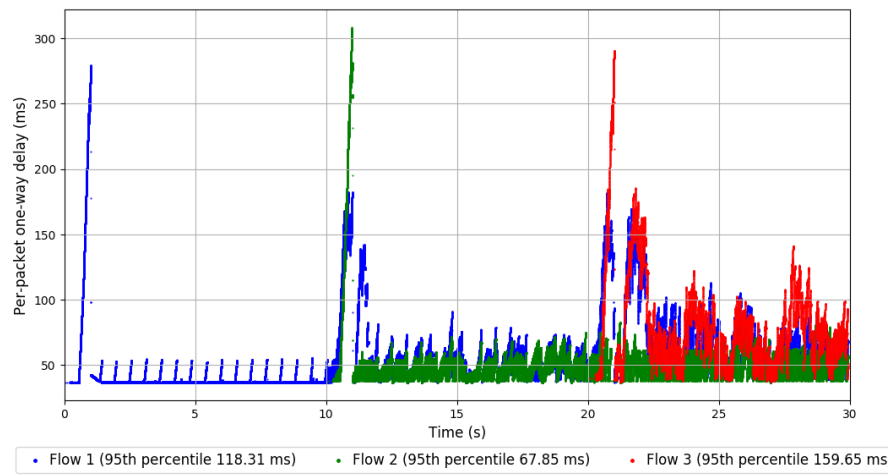
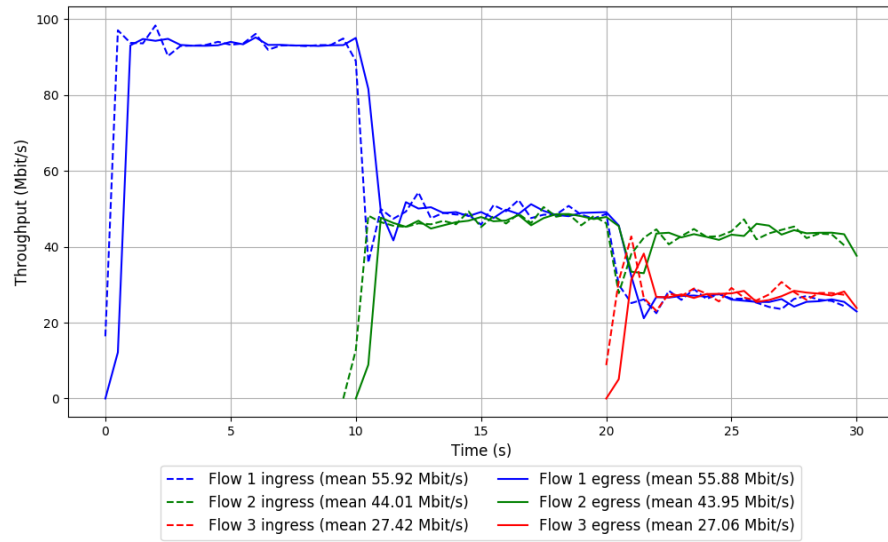



```
Run 1: Statistics of FillP-Sheep

Start at: 2019-12-11 14:52:51
End at: 2019-12-11 14:53:21
Local clock offset: 0.521 ms
Remote clock offset: 2.836 ms

# Below is generated by plot.py at 2019-12-11 17:30:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 114.428 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 55.88 Mbit/s
95th percentile per-packet one-way delay: 118.313 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 43.95 Mbit/s
95th percentile per-packet one-way delay: 67.850 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 27.06 Mbit/s
95th percentile per-packet one-way delay: 159.651 ms
Loss rate: 2.04%
```

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-12-11 15:22:26

End at: 2019-12-11 15:22:56

Local clock offset: 1.711 ms

Remote clock offset: 3.696 ms

Below is generated by plot.py at 2019-12-11 17:30:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.03 Mbit/s

95th percentile per-packet one-way delay: 113.650 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 56.21 Mbit/s

95th percentile per-packet one-way delay: 100.261 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 40.50 Mbit/s

95th percentile per-packet one-way delay: 119.225 ms

Loss rate: 0.52%

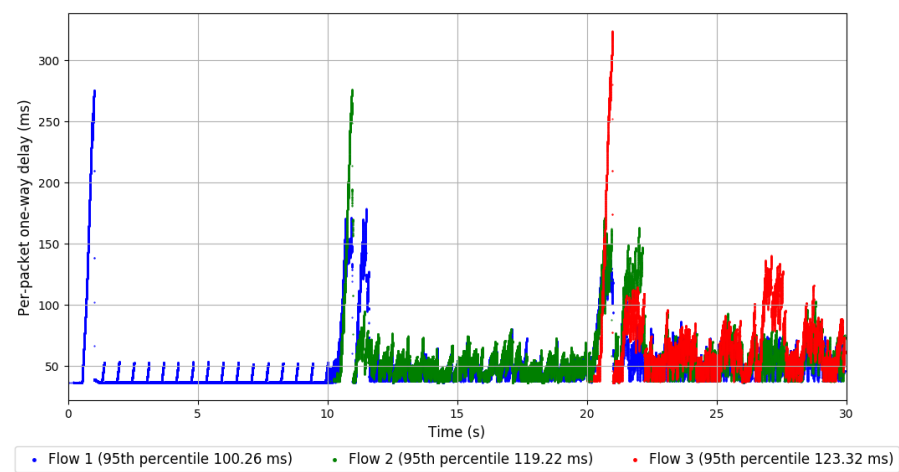
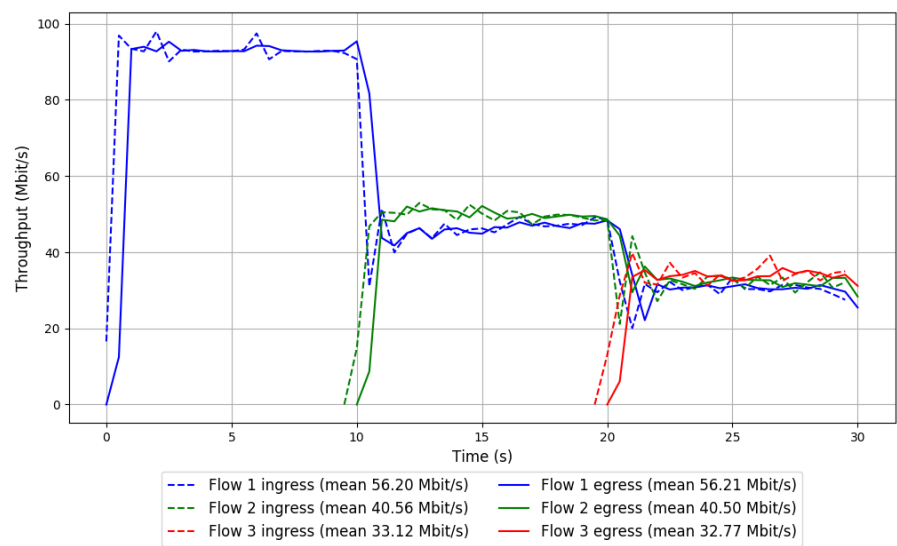
-- Flow 3:

Average throughput: 32.77 Mbit/s

95th percentile per-packet one-way delay: 123.317 ms

Loss rate: 1.66%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-12-11 15:53:01

End at: 2019-12-11 15:53:31

Local clock offset: 1.081 ms

Remote clock offset: 3.757 ms

Below is generated by plot.py at 2019-12-11 17:30:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 110.052 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 55.25 Mbit/s

95th percentile per-packet one-way delay: 121.414 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 45.48 Mbit/s

95th percentile per-packet one-way delay: 78.386 ms

Loss rate: 0.56%

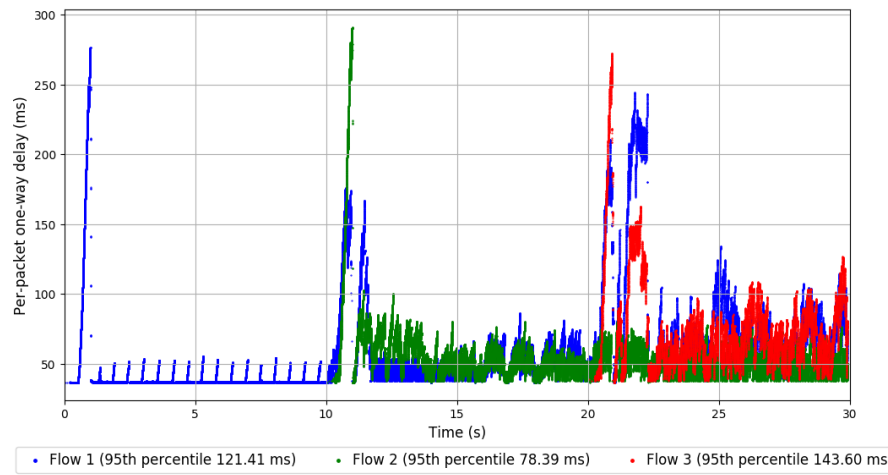
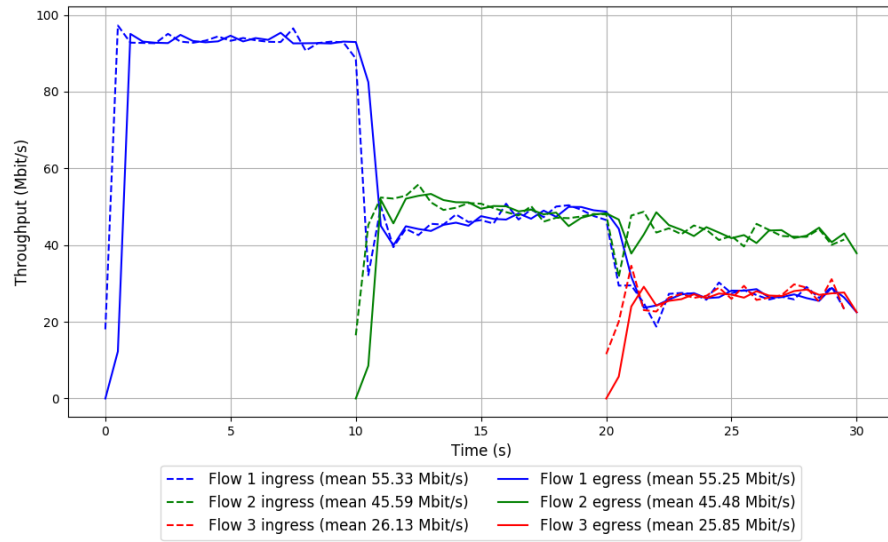
-- Flow 3:

Average throughput: 25.85 Mbit/s

95th percentile per-packet one-way delay: 143.600 ms

Loss rate: 1.72%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-12-11 16:23:20

End at: 2019-12-11 16:23:50

Local clock offset: -1.41 ms

Remote clock offset: 3.495 ms

Below is generated by plot.py at 2019-12-11 17:30:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.22 Mbit/s

95th percentile per-packet one-way delay: 112.293 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 61.75 Mbit/s

95th percentile per-packet one-way delay: 88.307 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 35.82 Mbit/s

95th percentile per-packet one-way delay: 159.897 ms

Loss rate: 0.50%

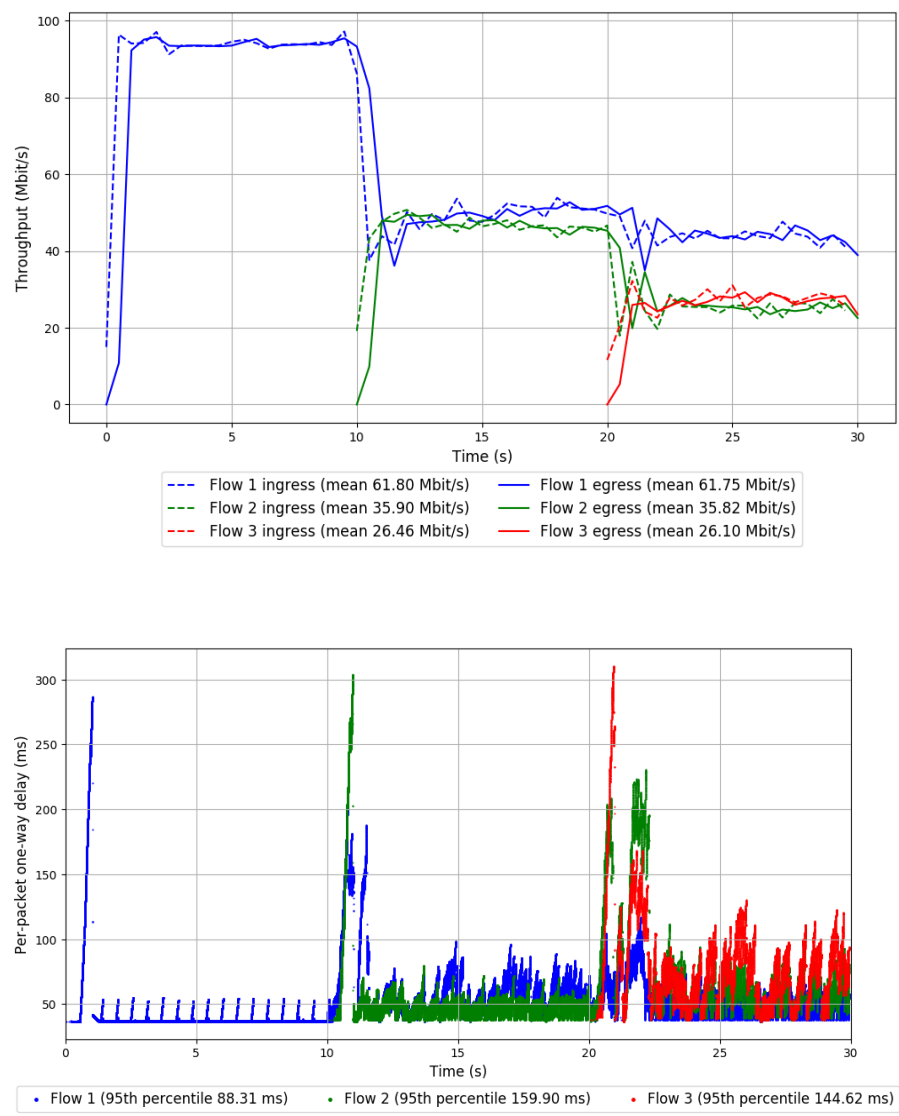
-- Flow 3:

Average throughput: 26.10 Mbit/s

95th percentile per-packet one-way delay: 144.625 ms

Loss rate: 2.05%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-12-11 16:54:35

End at: 2019-12-11 16:55:05

Local clock offset: 0.67 ms

Remote clock offset: 2.14 ms

Below is generated by plot.py at 2019-12-11 17:31:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 109.751 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 56.06 Mbit/s

95th percentile per-packet one-way delay: 103.115 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 41.43 Mbit/s

95th percentile per-packet one-way delay: 126.139 ms

Loss rate: 0.71%

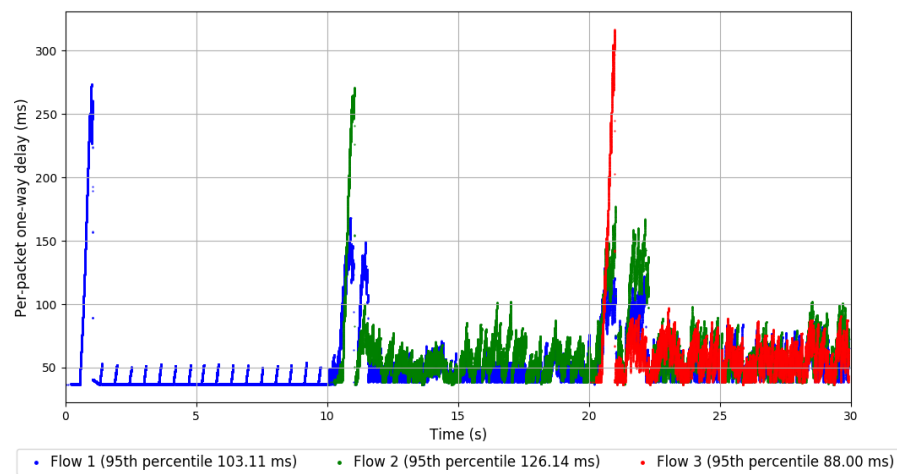
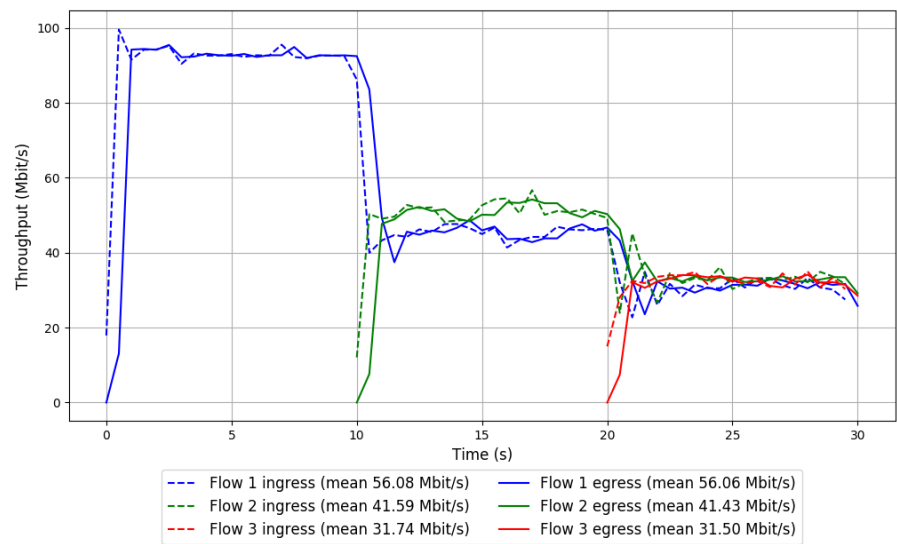
-- Flow 3:

Average throughput: 31.50 Mbit/s

95th percentile per-packet one-way delay: 88.005 ms

Loss rate: 1.50%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-12-11 15:18:41

End at: 2019-12-11 15:19:11

Local clock offset: 1.653 ms

Remote clock offset: 3.467 ms

Below is generated by plot.py at 2019-12-11 17:31:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.50 Mbit/s

95th percentile per-packet one-way delay: 49.411 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 58.86 Mbit/s

95th percentile per-packet one-way delay: 50.692 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 49.328 ms

Loss rate: 0.37%

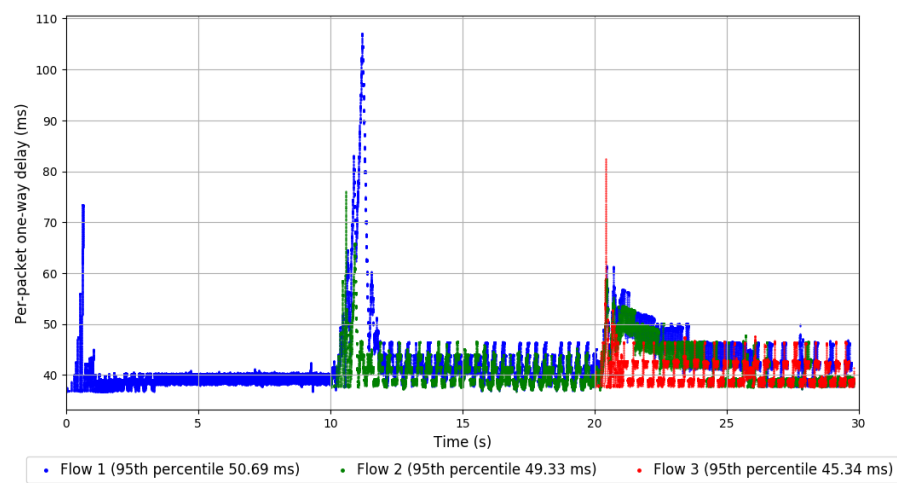
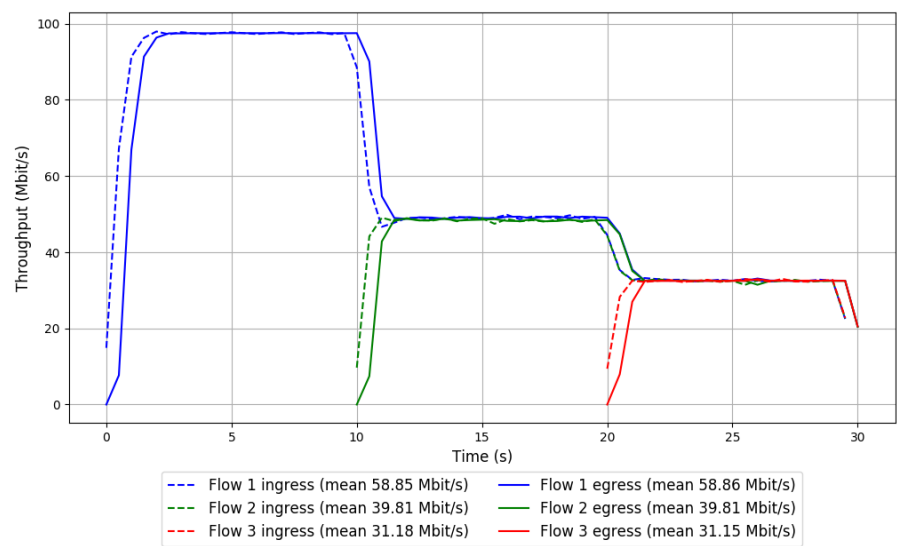
-- Flow 3:

Average throughput: 31.15 Mbit/s

95th percentile per-packet one-way delay: 45.342 ms

Loss rate: 0.82%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-12-11 15:49:10

End at: 2019-12-11 15:49:40

Local clock offset: 1.185 ms

Remote clock offset: 3.655 ms

Below is generated by plot.py at 2019-12-11 17:31:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.43 Mbit/s

95th percentile per-packet one-way delay: 48.779 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 56.11 Mbit/s

95th percentile per-packet one-way delay: 55.028 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 47.62 Mbit/s

95th percentile per-packet one-way delay: 41.554 ms

Loss rate: 0.37%

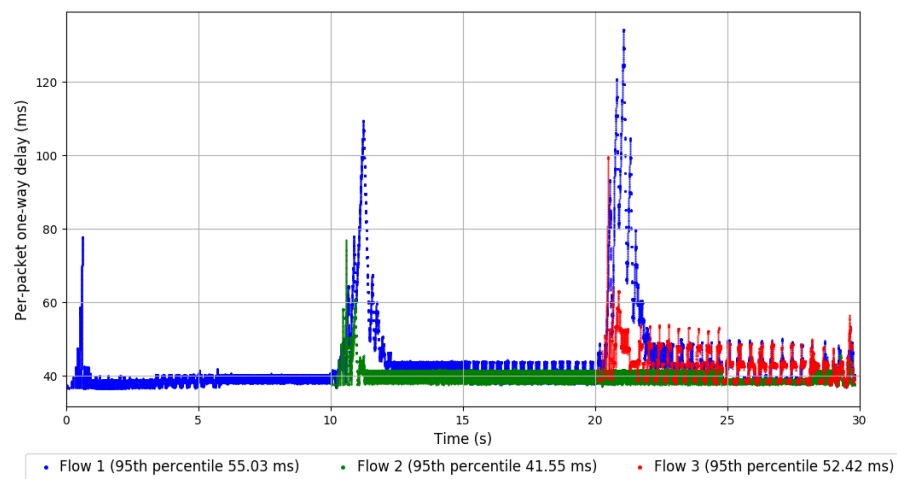
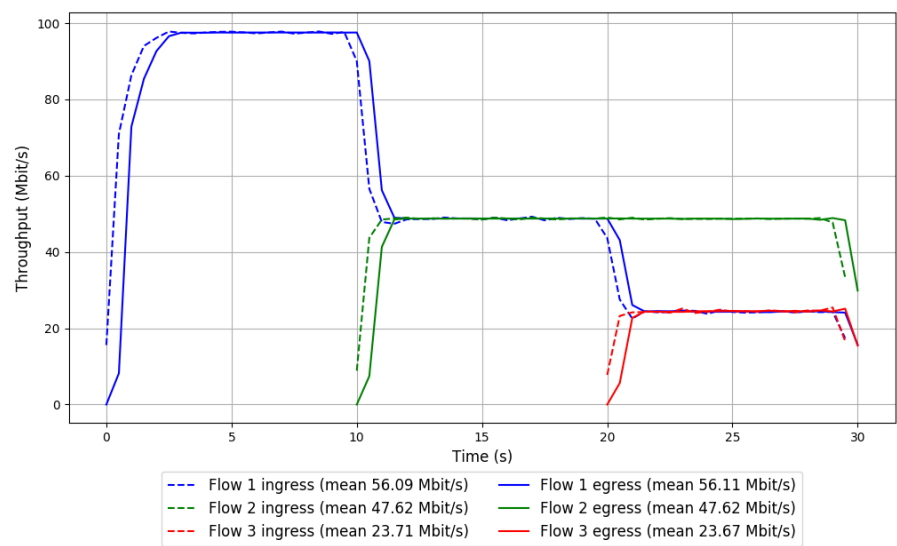
-- Flow 3:

Average throughput: 23.67 Mbit/s

95th percentile per-packet one-way delay: 52.420 ms

Loss rate: 0.88%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-12-11 16:19:13

End at: 2019-12-11 16:19:43

Local clock offset: -1.052 ms

Remote clock offset: 3.577 ms

Below is generated by plot.py at 2019-12-11 17:31:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 50.032 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 59.24 Mbit/s

95th percentile per-packet one-way delay: 52.533 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 39.88 Mbit/s

95th percentile per-packet one-way delay: 49.285 ms

Loss rate: 0.36%

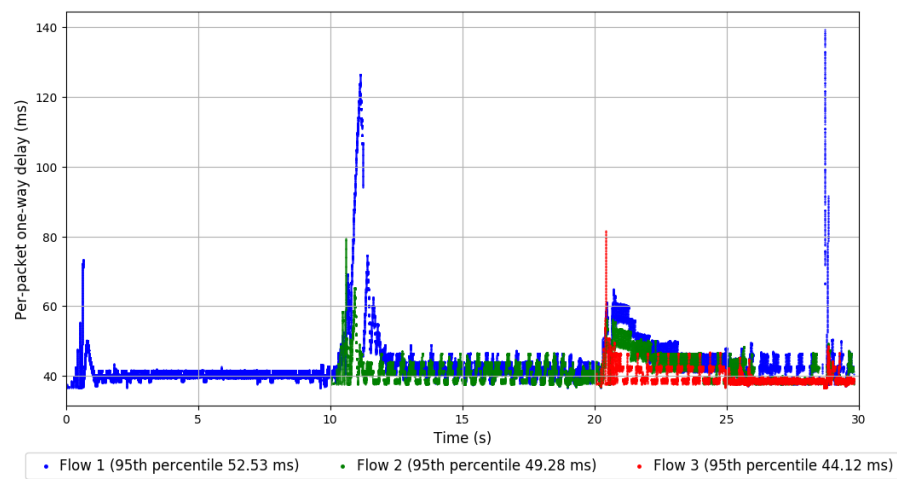
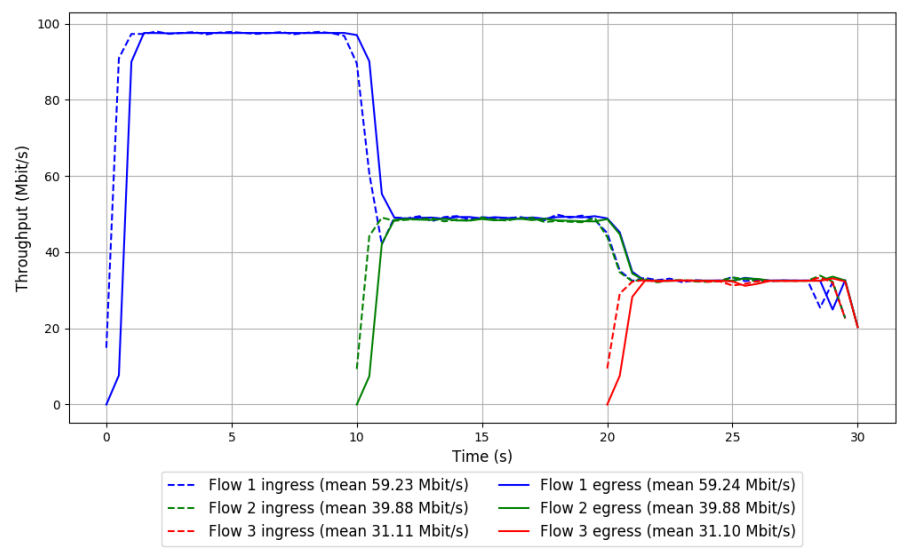
-- Flow 3:

Average throughput: 31.10 Mbit/s

95th percentile per-packet one-way delay: 44.125 ms

Loss rate: 0.78%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-12-11 16:50:12

End at: 2019-12-11 16:50:42

Local clock offset: 0.308 ms

Remote clock offset: 2.407 ms

Below is generated by plot.py at 2019-12-11 17:31:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.47 Mbit/s

95th percentile per-packet one-way delay: 52.159 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 56.57 Mbit/s

95th percentile per-packet one-way delay: 53.224 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 35.97 Mbit/s

95th percentile per-packet one-way delay: 55.878 ms

Loss rate: 0.34%

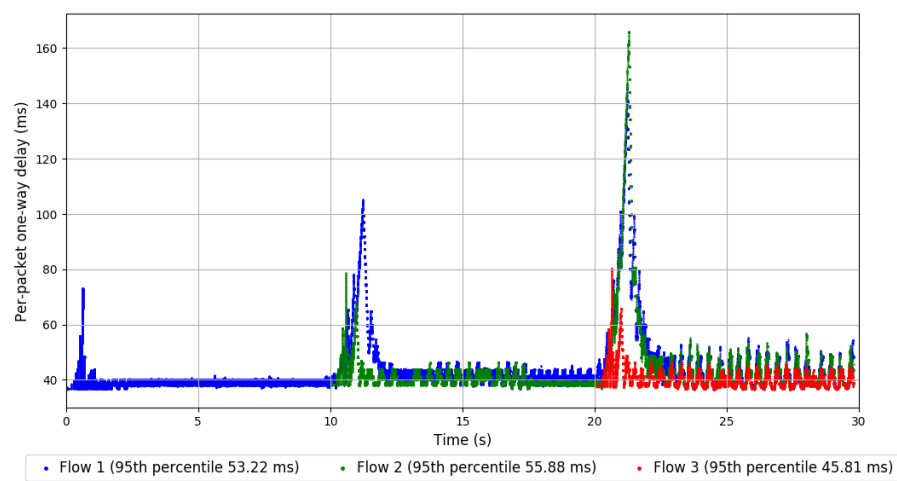
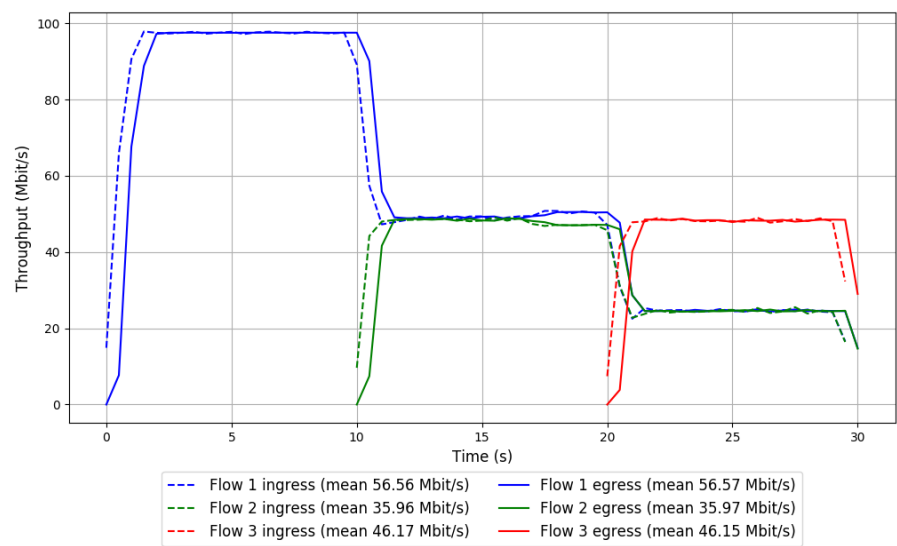
-- Flow 3:

Average throughput: 46.15 Mbit/s

95th percentile per-packet one-way delay: 45.811 ms

Loss rate: 0.77%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-12-11 17:22:33

End at: 2019-12-11 17:23:03

Local clock offset: 1.049 ms

Remote clock offset: 2.945 ms

Below is generated by plot.py at 2019-12-11 17:31:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.23 Mbit/s

95th percentile per-packet one-way delay: 48.732 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 51.668 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 47.24 Mbit/s

95th percentile per-packet one-way delay: 44.220 ms

Loss rate: 0.40%

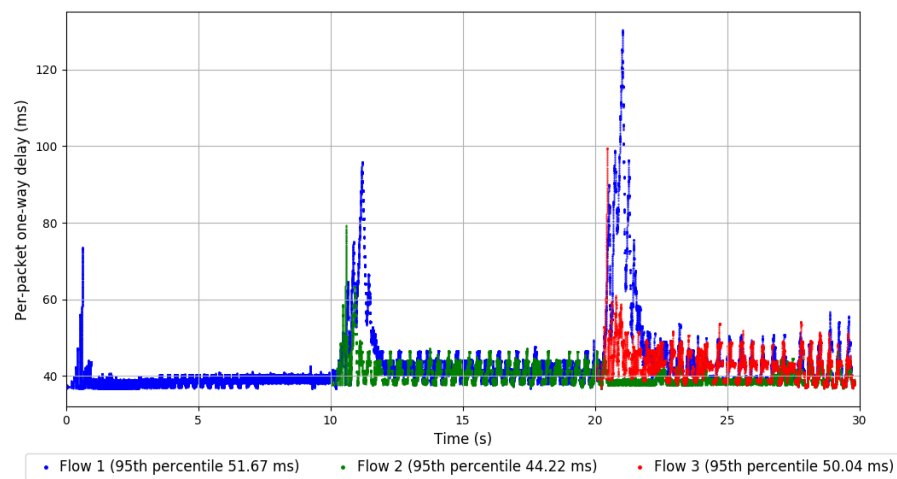
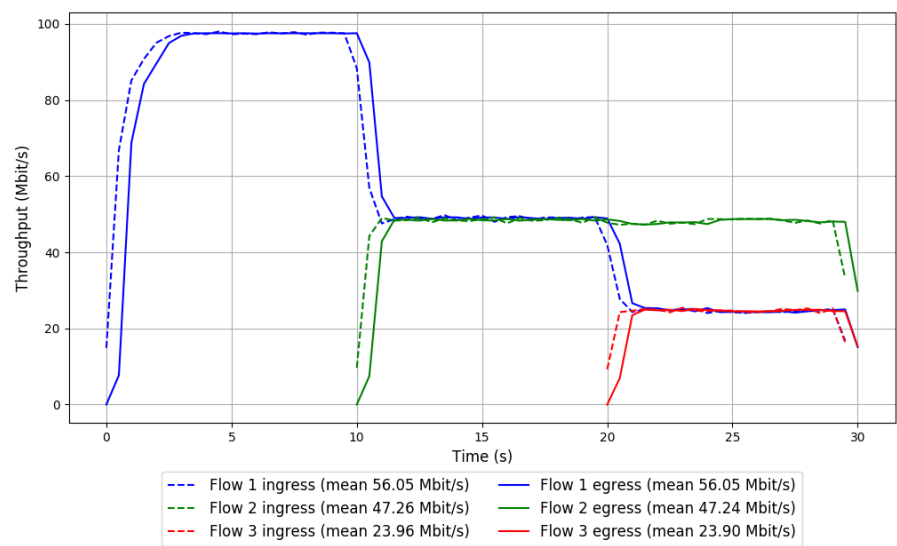
-- Flow 3:

Average throughput: 23.90 Mbit/s

95th percentile per-packet one-way delay: 50.039 ms

Loss rate: 0.95%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-12-11 14:54:04

End at: 2019-12-11 14:54:34

Local clock offset: 0.662 ms

Remote clock offset: 2.881 ms

Below is generated by plot.py at 2019-12-11 17:31:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 70.116 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 58.32 Mbit/s

95th percentile per-packet one-way delay: 66.741 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 37.35 Mbit/s

95th percentile per-packet one-way delay: 77.684 ms

Loss rate: 0.57%

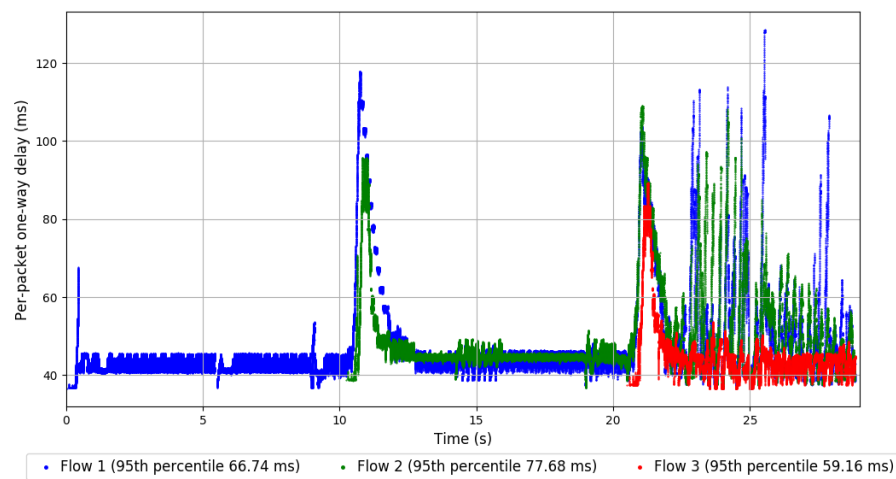
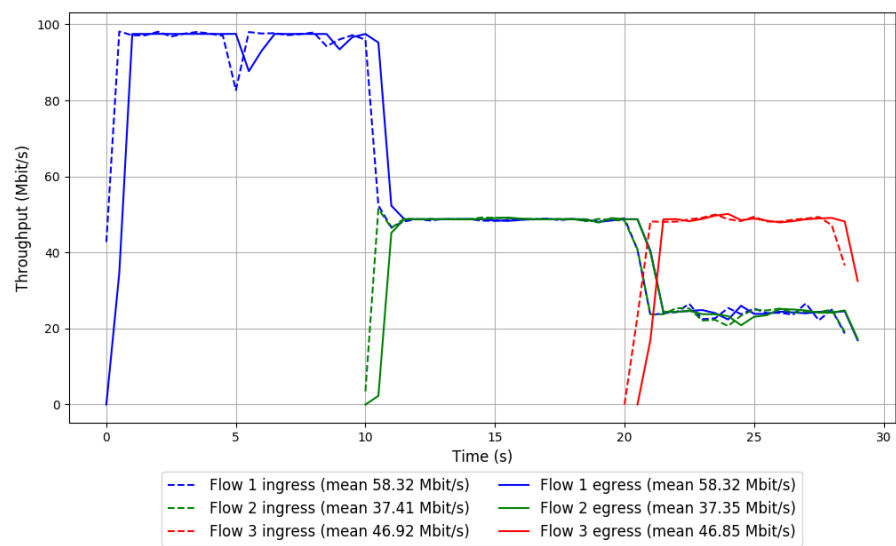
-- Flow 3:

Average throughput: 46.85 Mbit/s

95th percentile per-packet one-way delay: 59.158 ms

Loss rate: 1.00%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-12-11 15:23:39

End at: 2019-12-11 15:24:09

Local clock offset: 1.724 ms

Remote clock offset: 3.696 ms

Below is generated by plot.py at 2019-12-11 17:32:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 63.201 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 65.41 Mbit/s

95th percentile per-packet one-way delay: 50.426 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 72.957 ms

Loss rate: 0.49%

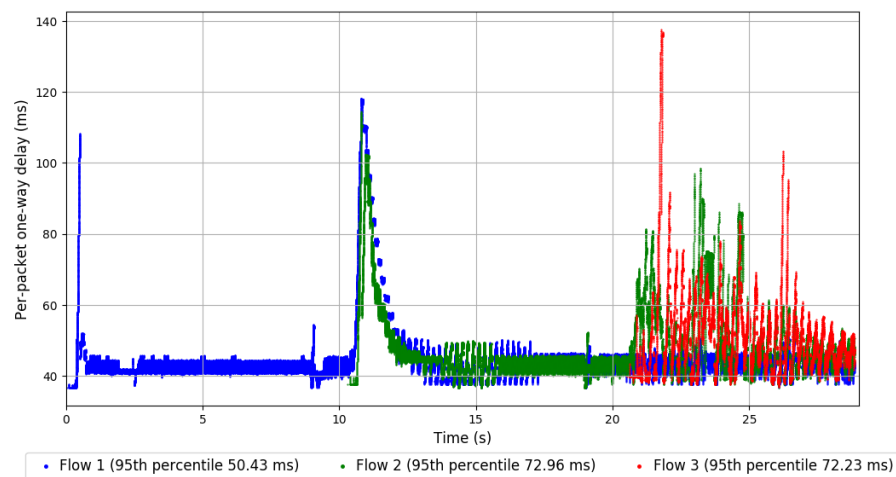
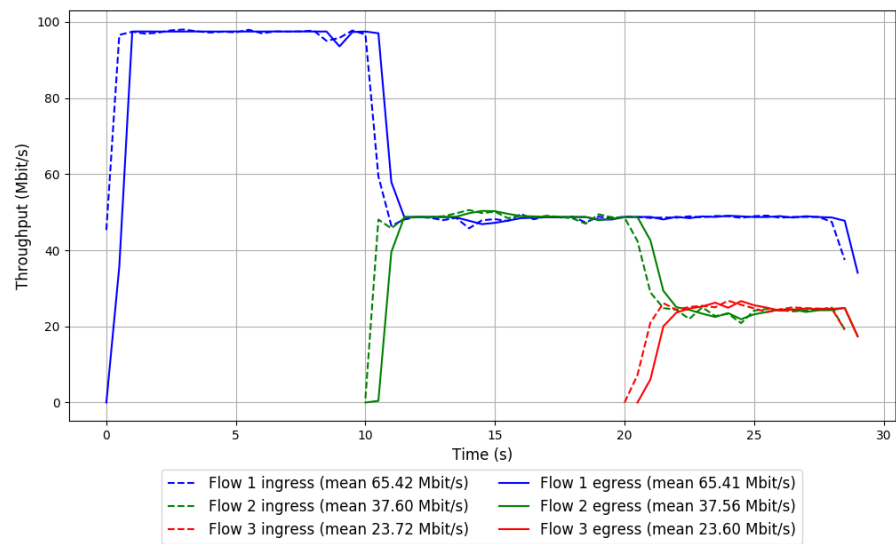
-- Flow 3:

Average throughput: 23.60 Mbit/s

95th percentile per-packet one-way delay: 72.232 ms

Loss rate: 1.40%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-12-11 15:54:14

End at: 2019-12-11 15:54:44

Local clock offset: 1.057 ms

Remote clock offset: 3.8 ms

Below is generated by plot.py at 2019-12-11 17:32:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 62.245 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 65.45 Mbit/s

95th percentile per-packet one-way delay: 49.016 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 37.53 Mbit/s

95th percentile per-packet one-way delay: 80.550 ms

Loss rate: 0.48%

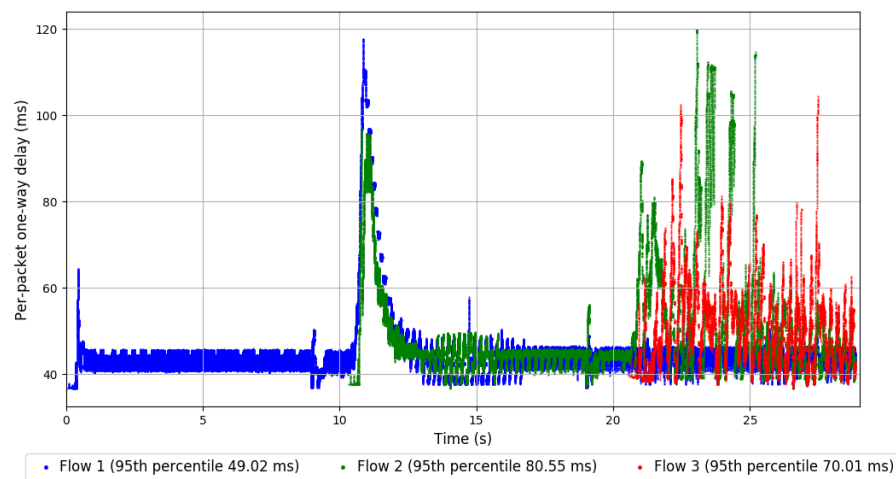
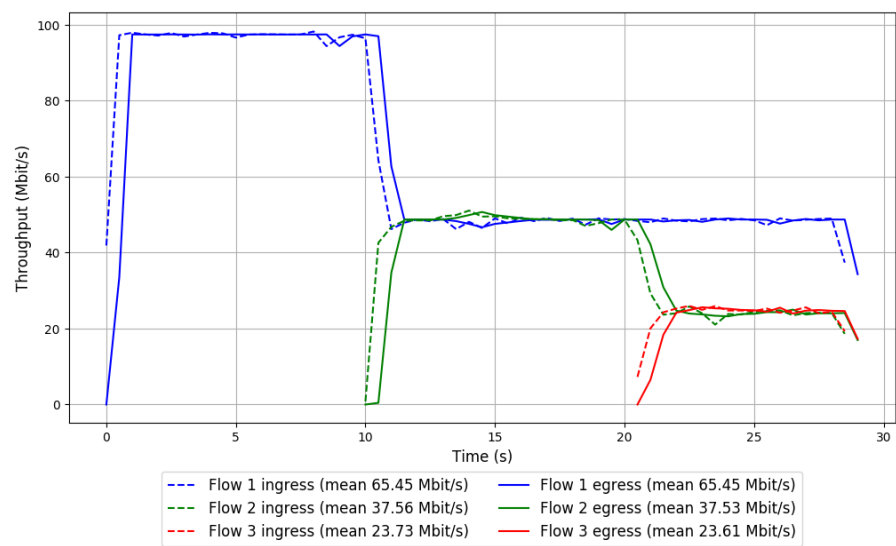
-- Flow 3:

Average throughput: 23.61 Mbit/s

95th percentile per-packet one-way delay: 70.010 ms

Loss rate: 1.39%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-12-11 16:24:39

End at: 2019-12-11 16:25:09

Local clock offset: -1.528 ms

Remote clock offset: 3.532 ms

Below is generated by plot.py at 2019-12-11 17:32:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 66.000 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 58.63 Mbit/s

95th percentile per-packet one-way delay: 65.379 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 37.21 Mbit/s

95th percentile per-packet one-way delay: 69.474 ms

Loss rate: 0.44%

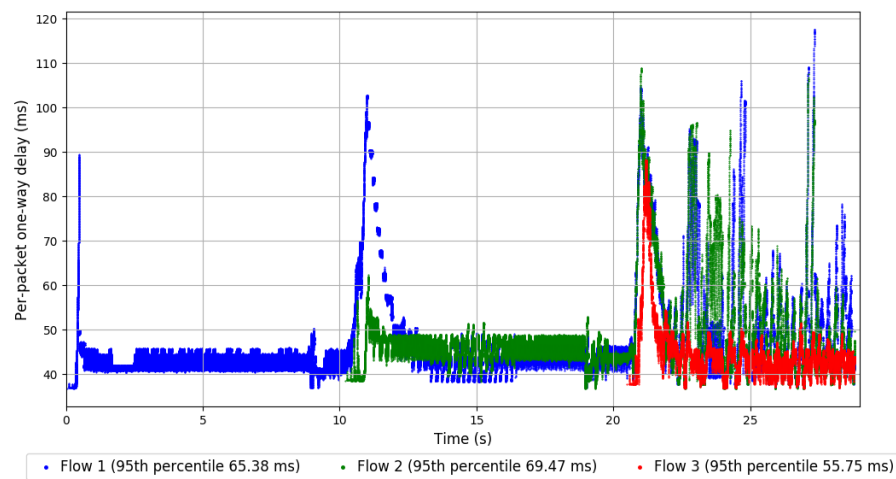
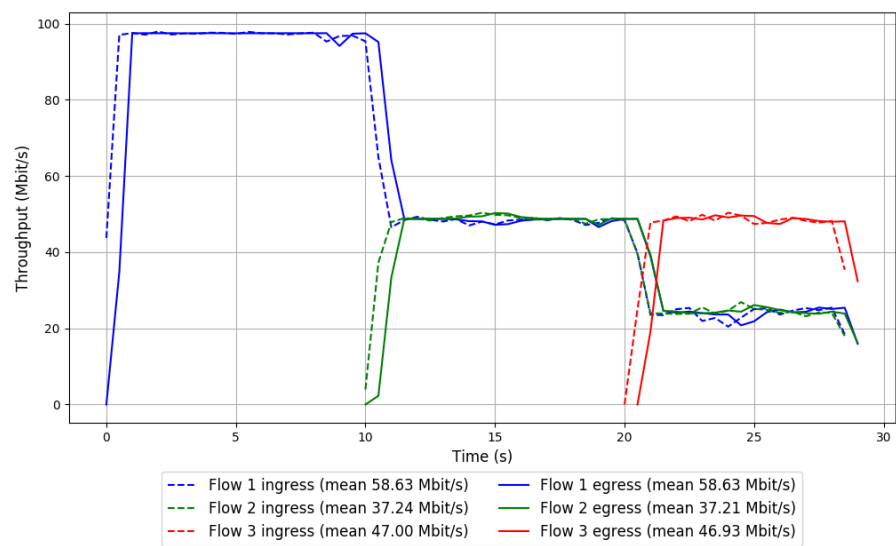
-- Flow 3:

Average throughput: 46.93 Mbit/s

95th percentile per-packet one-way delay: 55.750 ms

Loss rate: 0.97%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-12-11 16:55:58

End at: 2019-12-11 16:56:28

Local clock offset: 0.771 ms

Remote clock offset: 2.133 ms

Below is generated by plot.py at 2019-12-11 17:32:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.38 Mbit/s

95th percentile per-packet one-way delay: 61.365 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 65.40 Mbit/s

95th percentile per-packet one-way delay: 48.918 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 37.39 Mbit/s

95th percentile per-packet one-way delay: 72.658 ms

Loss rate: 0.45%

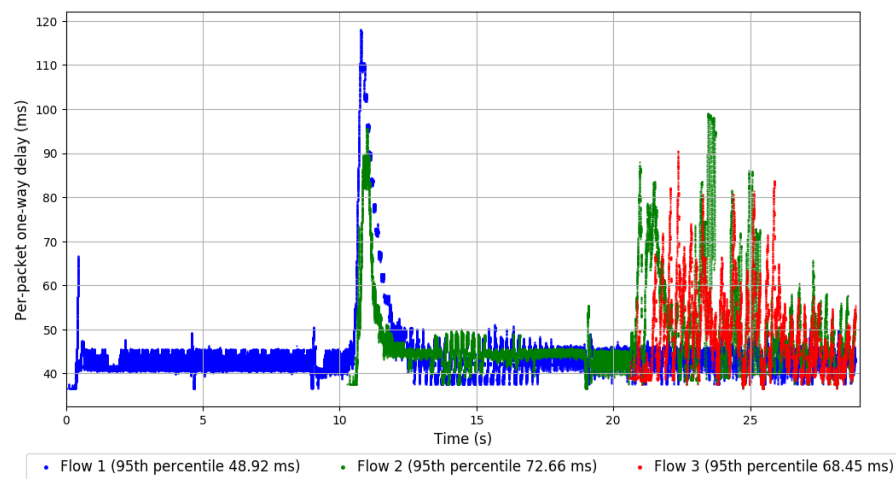
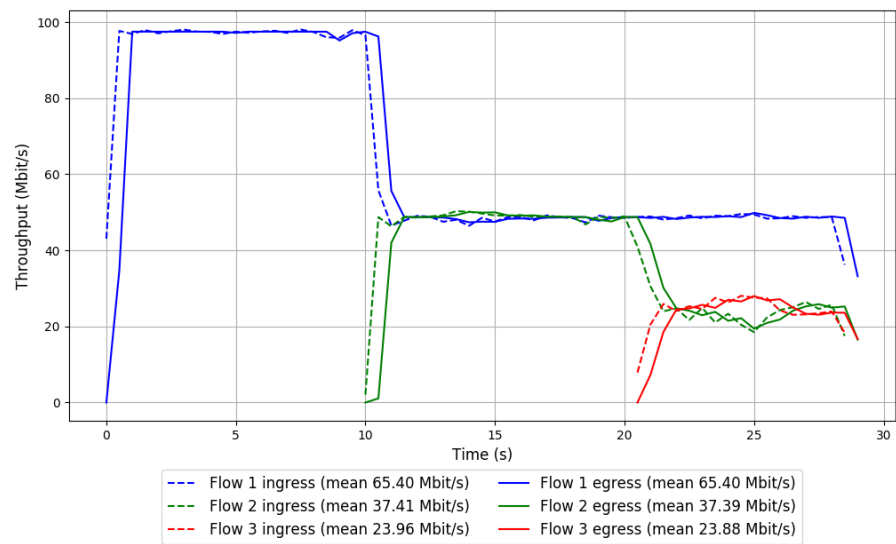
-- Flow 3:

Average throughput: 23.88 Mbit/s

95th percentile per-packet one-way delay: 68.450 ms

Loss rate: 1.21%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-12-11 14:56:31

End at: 2019-12-11 14:57:01

Local clock offset: 0.859 ms

Remote clock offset: 2.85 ms

Below is generated by plot.py at 2019-12-11 17:32:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.73 Mbit/s

95th percentile per-packet one-way delay: 169.945 ms

Loss rate: 3.58%

-- Flow 1:

Average throughput: 57.54 Mbit/s

95th percentile per-packet one-way delay: 184.947 ms

Loss rate: 2.58%

-- Flow 2:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 156.019 ms

Loss rate: 5.68%

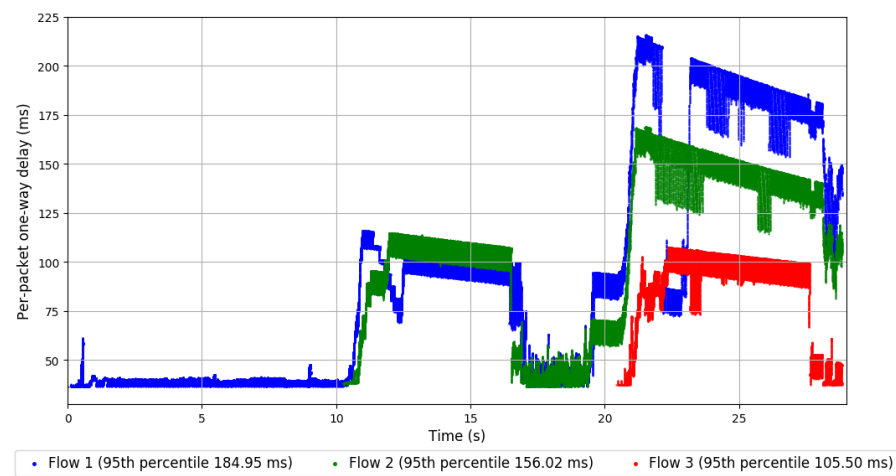
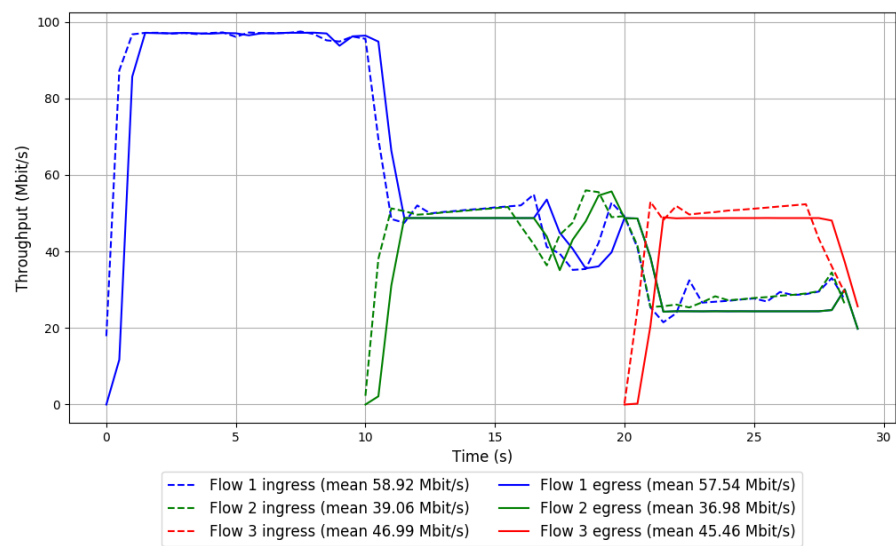
-- Flow 3:

Average throughput: 45.46 Mbit/s

95th percentile per-packet one-way delay: 105.503 ms

Loss rate: 4.01%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-12-11 15:26:06

End at: 2019-12-11 15:26:36

Local clock offset: 1.797 ms

Remote clock offset: 3.864 ms

Below is generated by plot.py at 2019-12-11 17:32:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.27 Mbit/s

95th percentile per-packet one-way delay: 115.943 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 61.00 Mbit/s

95th percentile per-packet one-way delay: 89.934 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 41.40 Mbit/s

95th percentile per-packet one-way delay: 135.458 ms

Loss rate: 3.27%

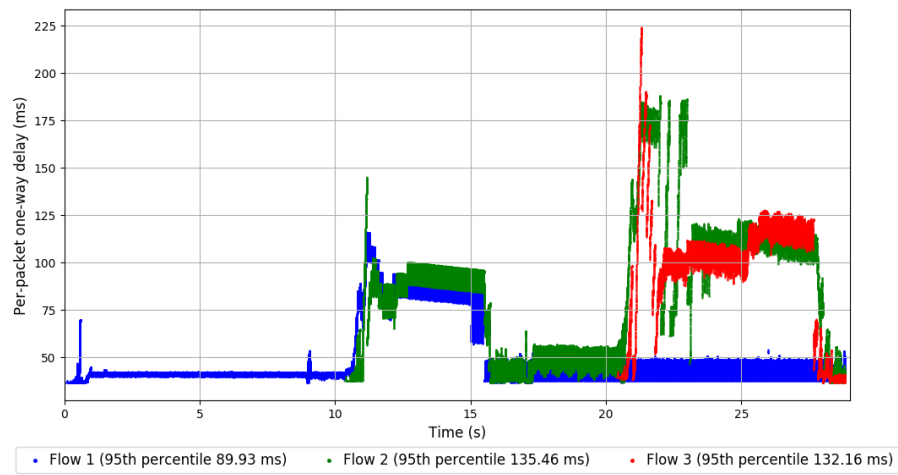
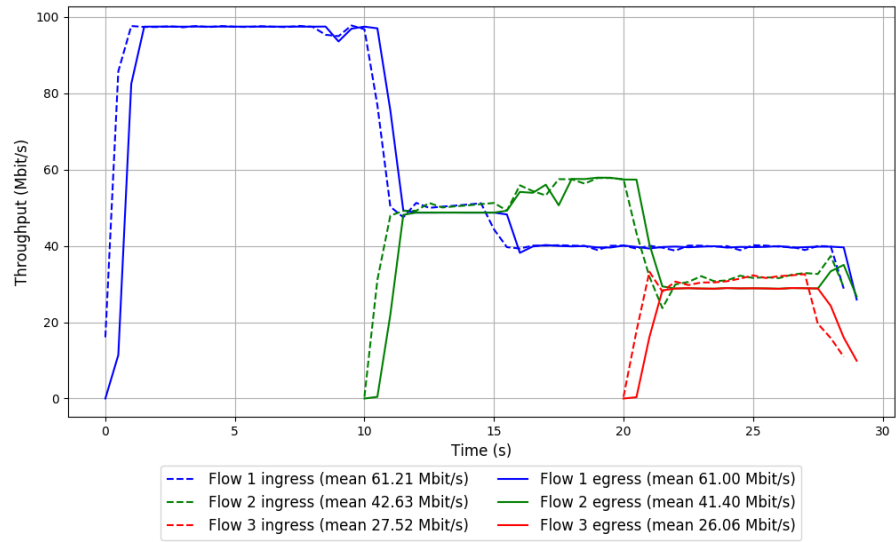
-- Flow 3:

Average throughput: 26.06 Mbit/s

95th percentile per-packet one-way delay: 132.164 ms

Loss rate: 6.10%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-12-11 15:56:42

End at: 2019-12-11 15:57:12

Local clock offset: 1.058 ms

Remote clock offset: 3.843 ms

Below is generated by plot.py at 2019-12-11 17:32:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 106.201 ms

Loss rate: 2.18%

-- Flow 1:

Average throughput: 61.04 Mbit/s

95th percentile per-packet one-way delay: 100.713 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 37.58 Mbit/s

95th percentile per-packet one-way delay: 99.486 ms

Loss rate: 2.85%

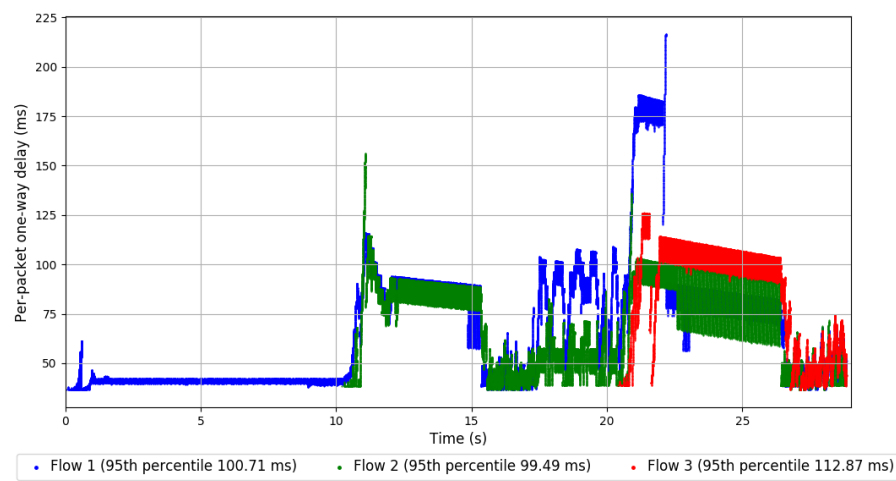
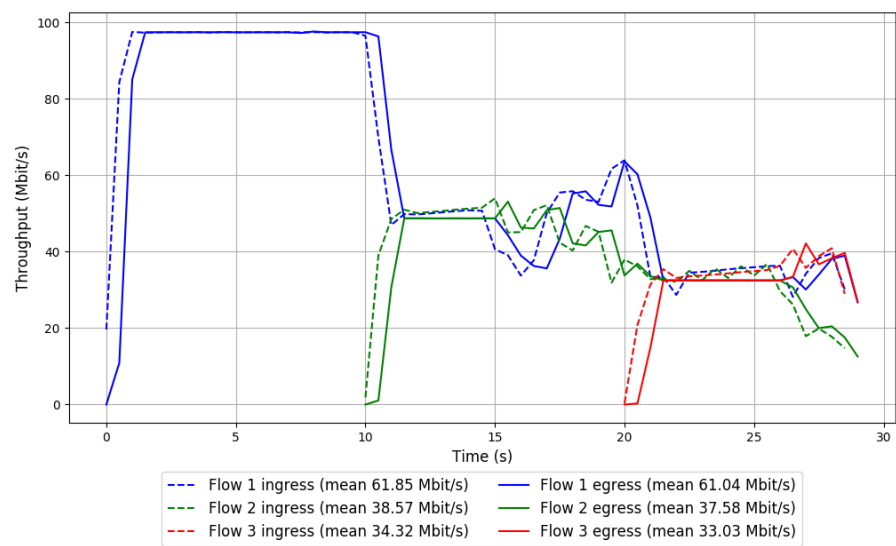
-- Flow 3:

Average throughput: 33.03 Mbit/s

95th percentile per-packet one-way delay: 112.867 ms

Loss rate: 4.46%

Run 3: Report of Indigo-MusesC5 — Data Link

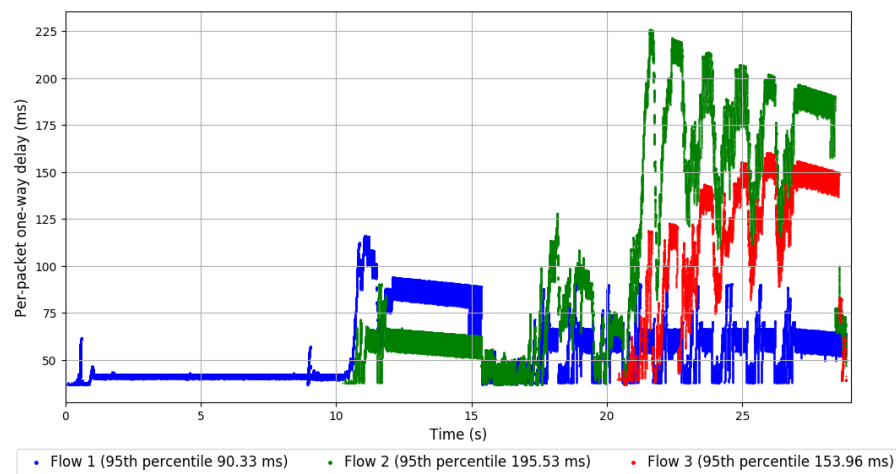
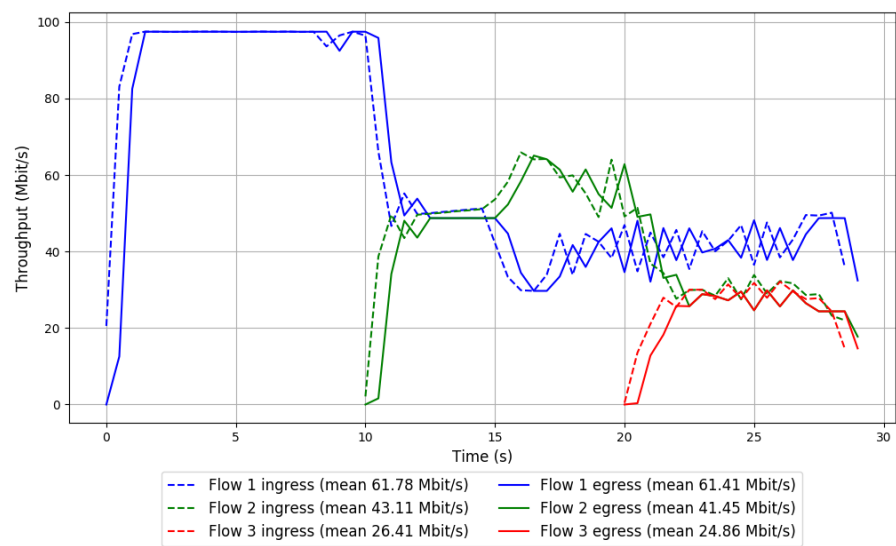


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-12-11 16:27:18
End at: 2019-12-11 16:27:48
Local clock offset: -1.718 ms
Remote clock offset: 3.568 ms

Below is generated by plot.py at 2019-12-11 17:32:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 159.296 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 61.41 Mbit/s
95th percentile per-packet one-way delay: 90.328 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 41.45 Mbit/s
95th percentile per-packet one-way delay: 195.531 ms
Loss rate: 4.20%
-- Flow 3:
Average throughput: 24.86 Mbit/s
95th percentile per-packet one-way delay: 153.964 ms
Loss rate: 6.63%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-12-11 16:58:39

End at: 2019-12-11 16:59:09

Local clock offset: 0.906 ms

Remote clock offset: 2.154 ms

Below is generated by plot.py at 2019-12-11 17:33:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 109.283 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 59.66 Mbit/s

95th percentile per-packet one-way delay: 90.549 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 41.78 Mbit/s

95th percentile per-packet one-way delay: 146.126 ms

Loss rate: 3.57%

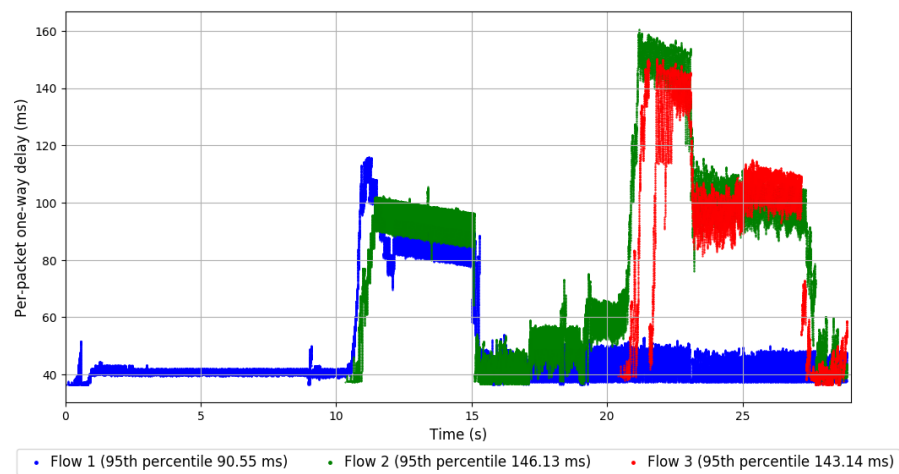
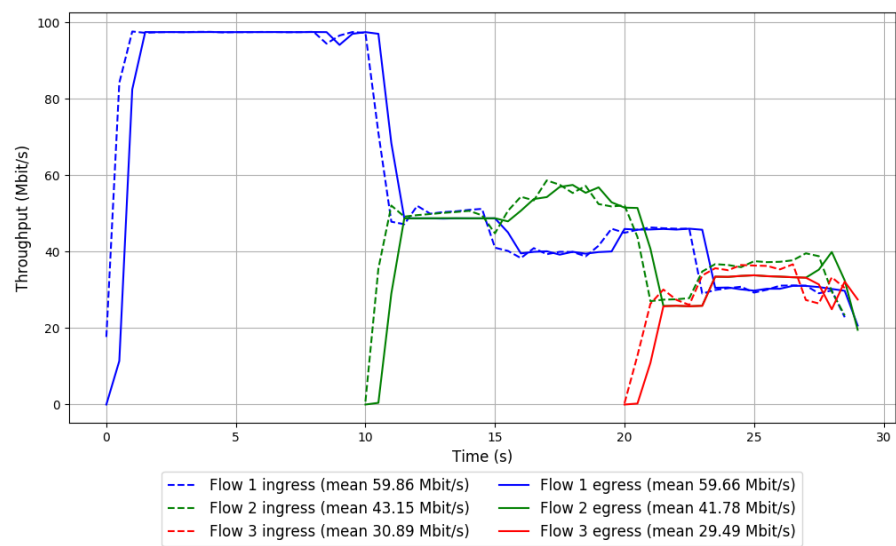
-- Flow 3:

Average throughput: 29.49 Mbit/s

95th percentile per-packet one-way delay: 143.137 ms

Loss rate: 5.37%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-12-11 15:16:13

End at: 2019-12-11 15:16:43

Local clock offset: 1.589 ms

Remote clock offset: 3.391 ms

Below is generated by plot.py at 2019-12-11 17:33:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 151.547 ms

Loss rate: 7.56%

-- Flow 1:

Average throughput: 58.97 Mbit/s

95th percentile per-packet one-way delay: 153.910 ms

Loss rate: 5.82%

-- Flow 2:

Average throughput: 47.65 Mbit/s

95th percentile per-packet one-way delay: 140.780 ms

Loss rate: 10.78%

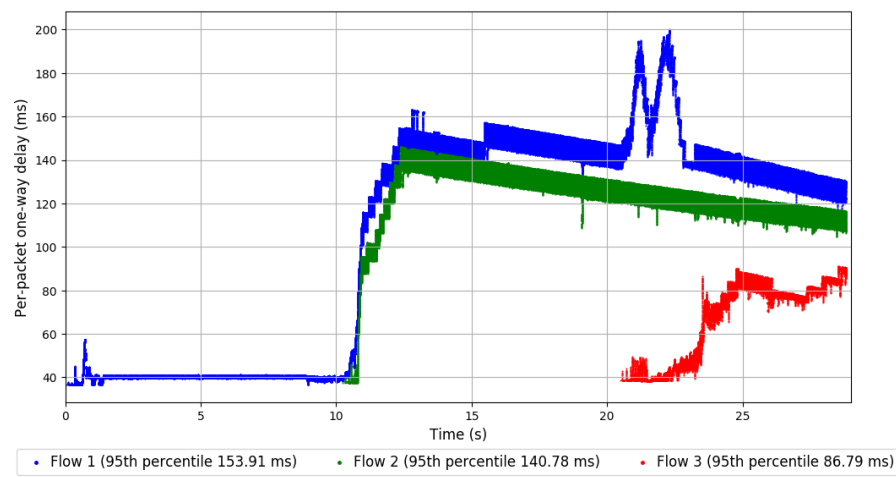
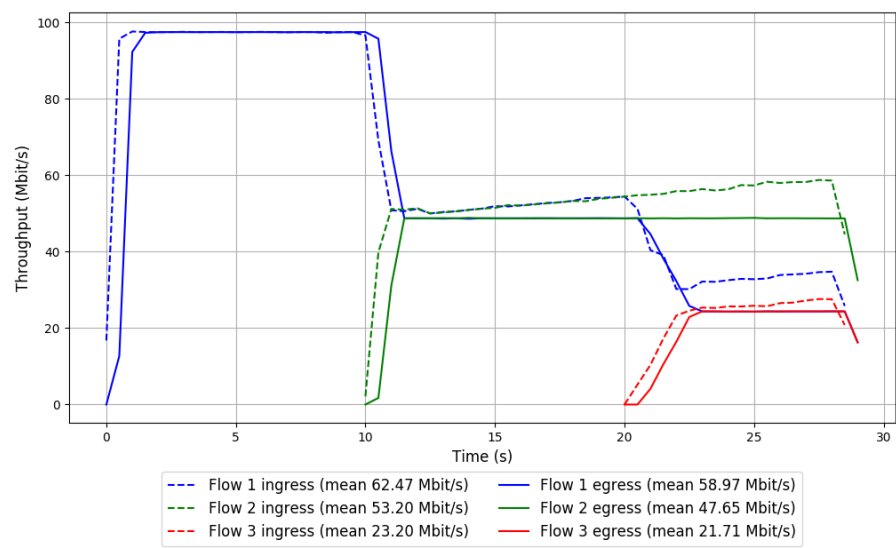
-- Flow 3:

Average throughput: 21.71 Mbit/s

95th percentile per-packet one-way delay: 86.789 ms

Loss rate: 7.19%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-12-11 15:46:36

End at: 2019-12-11 15:47:06

Local clock offset: 1.32 ms

Remote clock offset: 3.644 ms

Below is generated by plot.py at 2019-12-11 17:33:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 151.841 ms

Loss rate: 4.24%

-- Flow 1:

Average throughput: 59.07 Mbit/s

95th percentile per-packet one-way delay: 155.098 ms

Loss rate: 5.82%

-- Flow 2:

Average throughput: 47.29 Mbit/s

95th percentile per-packet one-way delay: 68.341 ms

Loss rate: 0.53%

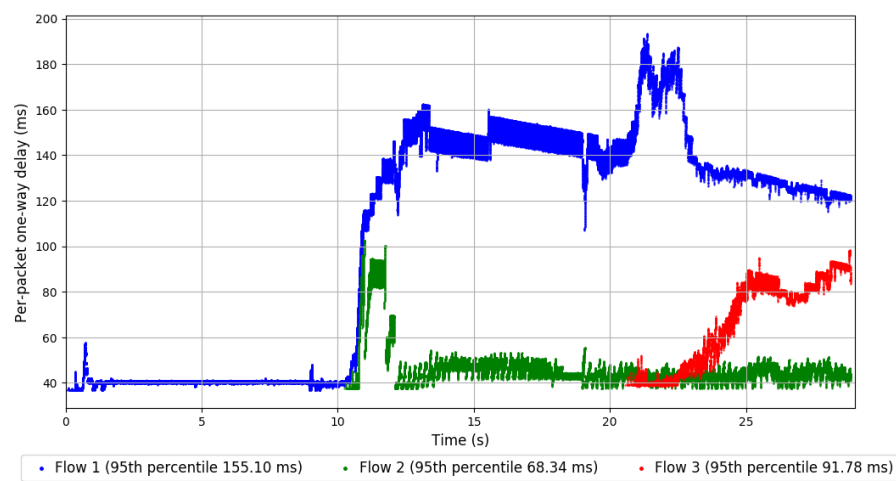
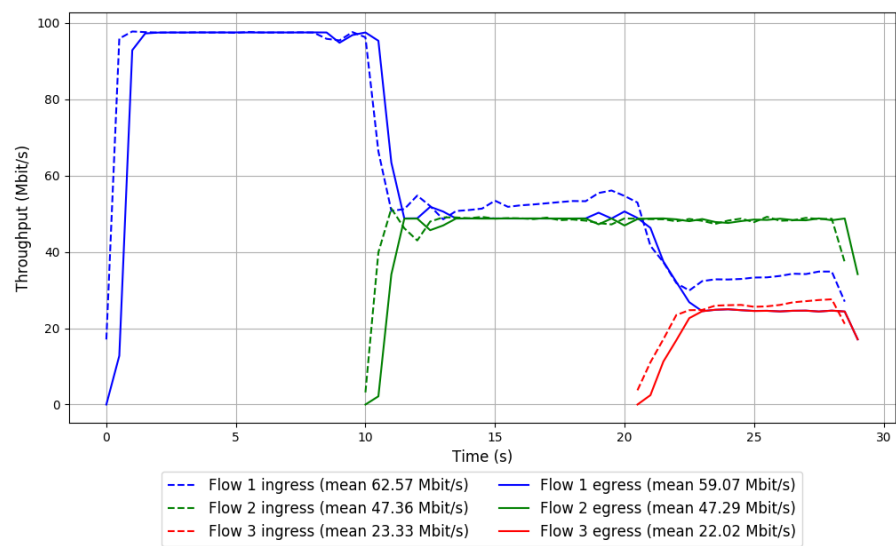
-- Flow 3:

Average throughput: 22.02 Mbit/s

95th percentile per-packet one-way delay: 91.781 ms

Loss rate: 6.43%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-12-11 16:16:42

End at: 2019-12-11 16:17:12

Local clock offset: -0.721 ms

Remote clock offset: 3.588 ms

Below is generated by plot.py at 2019-12-11 17:33:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 151.189 ms

Loss rate: 7.00%

-- Flow 1:

Average throughput: 58.52 Mbit/s

95th percentile per-packet one-way delay: 152.673 ms

Loss rate: 5.68%

-- Flow 2:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 130.944 ms

Loss rate: 12.78%

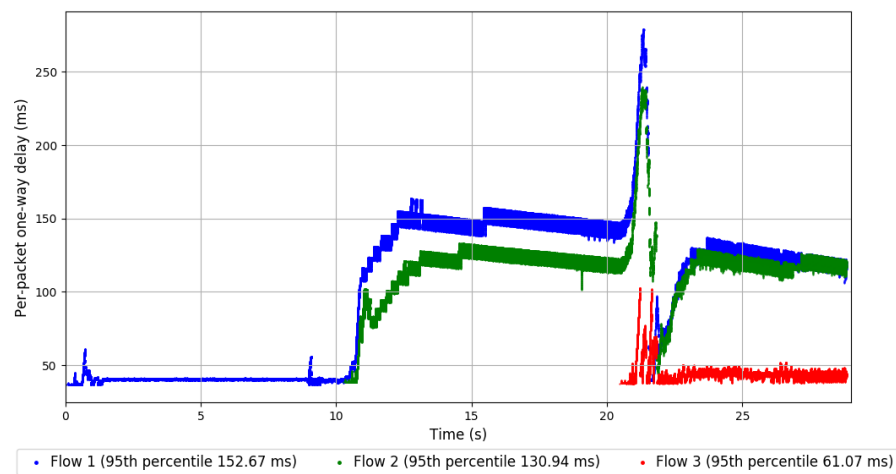
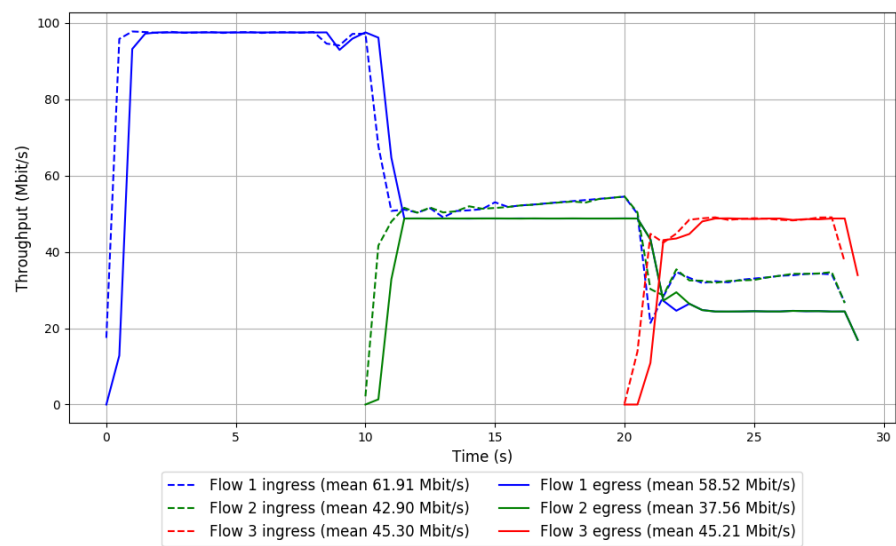
-- Flow 3:

Average throughput: 45.21 Mbit/s

95th percentile per-packet one-way delay: 61.068 ms

Loss rate: 1.06%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-12-11 16:47:34

End at: 2019-12-11 16:48:04

Local clock offset: -0.028 ms

Remote clock offset: 2.441 ms

Below is generated by plot.py at 2019-12-11 17:33:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.86 Mbit/s

95th percentile per-packet one-way delay: 151.297 ms

Loss rate: 7.68%

-- Flow 1:

Average throughput: 60.74 Mbit/s

95th percentile per-packet one-way delay: 152.422 ms

Loss rate: 5.59%

-- Flow 2:

Average throughput: 40.52 Mbit/s

95th percentile per-packet one-way delay: 143.253 ms

Loss rate: 12.06%

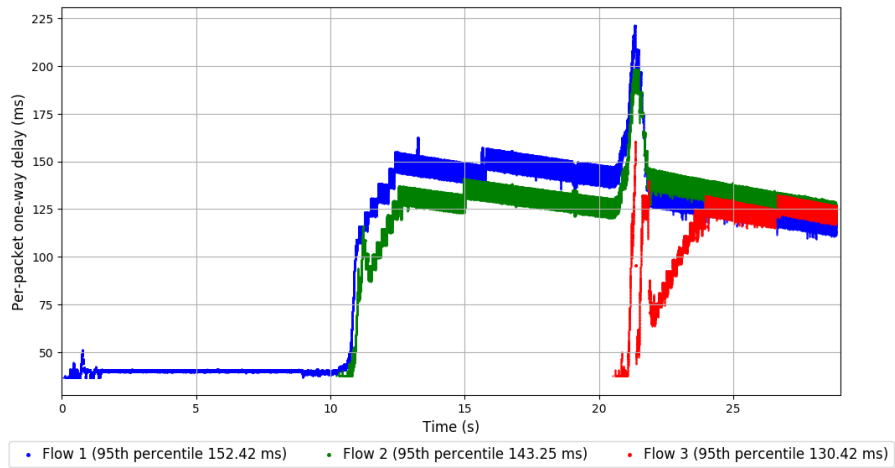
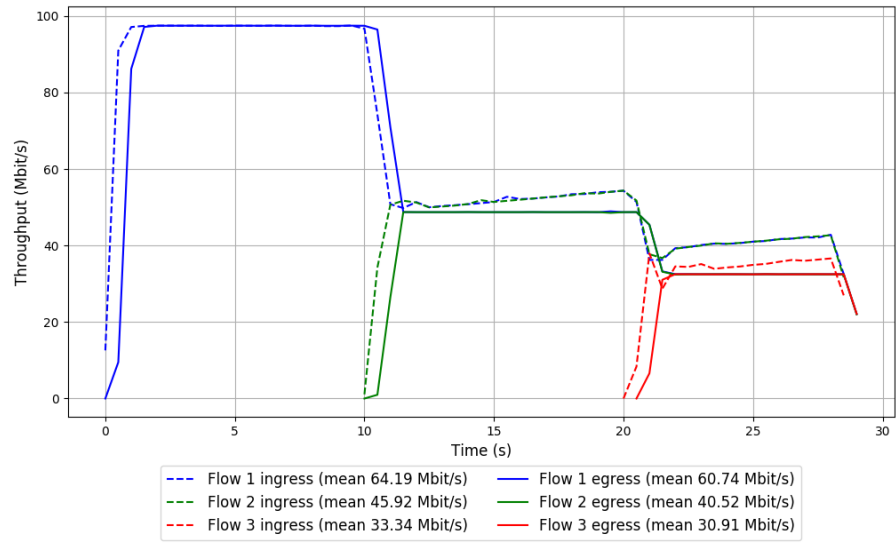
-- Flow 3:

Average throughput: 30.91 Mbit/s

95th percentile per-packet one-way delay: 130.422 ms

Loss rate: 8.08%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-12-11 17:20:02

End at: 2019-12-11 17:20:32

Local clock offset: 1.068 ms

Remote clock offset: 2.92 ms

Below is generated by plot.py at 2019-12-11 17:34:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.88 Mbit/s

95th percentile per-packet one-way delay: 150.217 ms

Loss rate: 7.39%

-- Flow 1:

Average throughput: 60.75 Mbit/s

95th percentile per-packet one-way delay: 150.634 ms

Loss rate: 5.65%

-- Flow 2:

Average throughput: 40.52 Mbit/s

95th percentile per-packet one-way delay: 150.648 ms

Loss rate: 11.95%

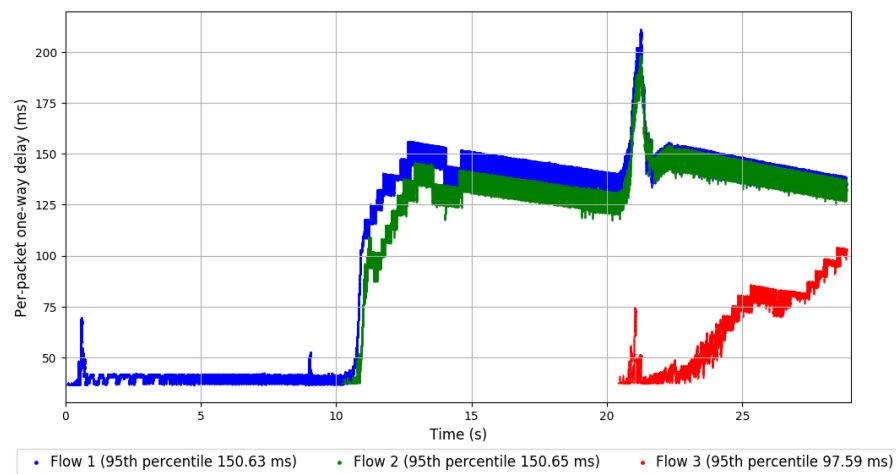
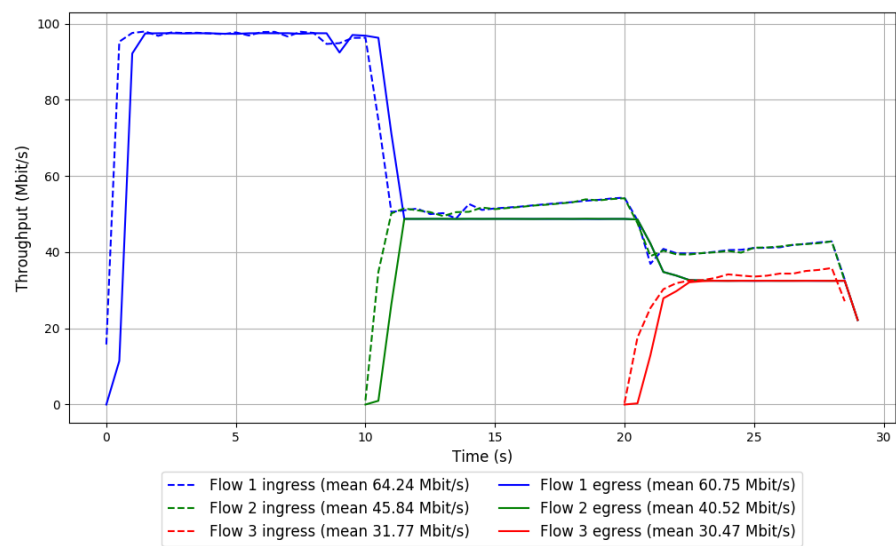
-- Flow 3:

Average throughput: 30.47 Mbit/s

95th percentile per-packet one-way delay: 97.592 ms

Loss rate: 4.90%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-12-11 15:17:27

End at: 2019-12-11 15:17:57

Local clock offset: 1.624 ms

Remote clock offset: 3.414 ms

Below is generated by plot.py at 2019-12-11 17:34:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 177.481 ms

Loss rate: 4.23%

-- Flow 1:

Average throughput: 61.13 Mbit/s

95th percentile per-packet one-way delay: 128.467 ms

Loss rate: 2.95%

-- Flow 2:

Average throughput: 40.99 Mbit/s

95th percentile per-packet one-way delay: 144.689 ms

Loss rate: 6.00%

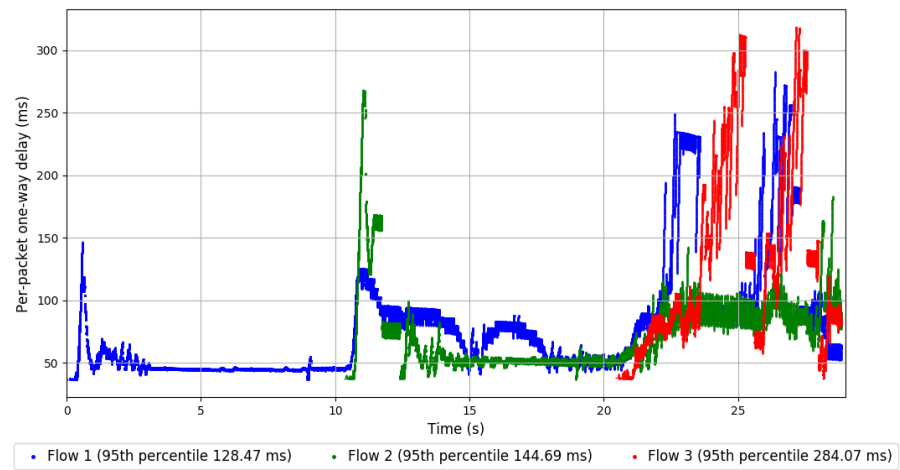
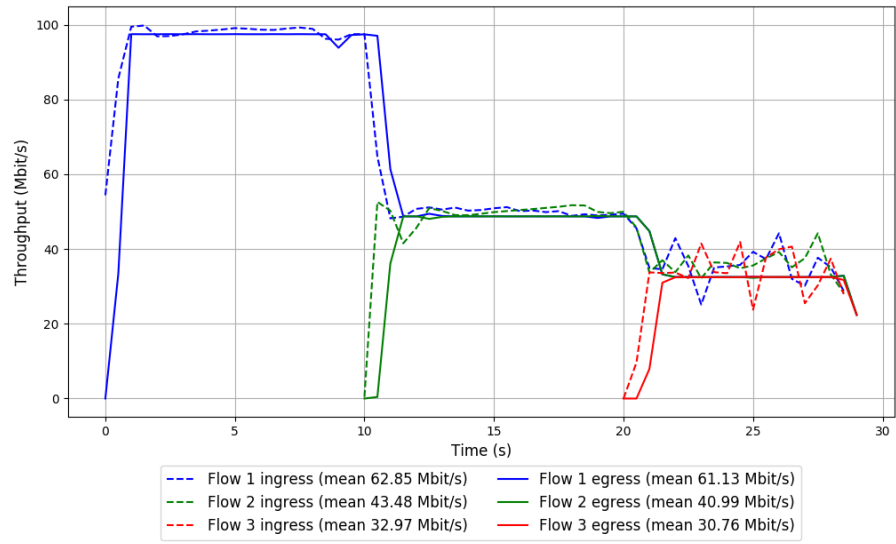
-- Flow 3:

Average throughput: 30.76 Mbit/s

95th percentile per-packet one-way delay: 284.070 ms

Loss rate: 7.47%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-12-11 15:47:52

End at: 2019-12-11 15:48:22

Local clock offset: 1.239 ms

Remote clock offset: 3.719 ms

Below is generated by plot.py at 2019-12-11 17:34:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.39 Mbit/s

95th percentile per-packet one-way delay: 168.099 ms

Loss rate: 4.78%

-- Flow 1:

Average throughput: 60.78 Mbit/s

95th percentile per-packet one-way delay: 117.680 ms

Loss rate: 3.18%

-- Flow 2:

Average throughput: 40.95 Mbit/s

95th percentile per-packet one-way delay: 212.856 ms

Loss rate: 7.32%

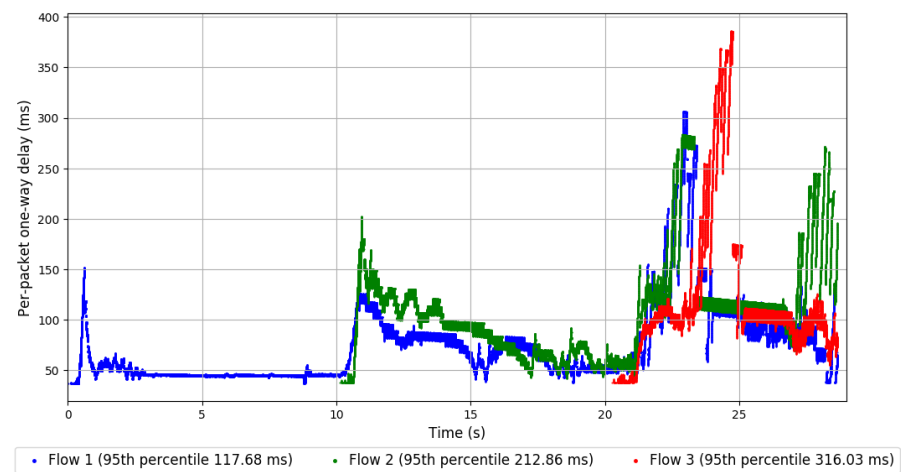
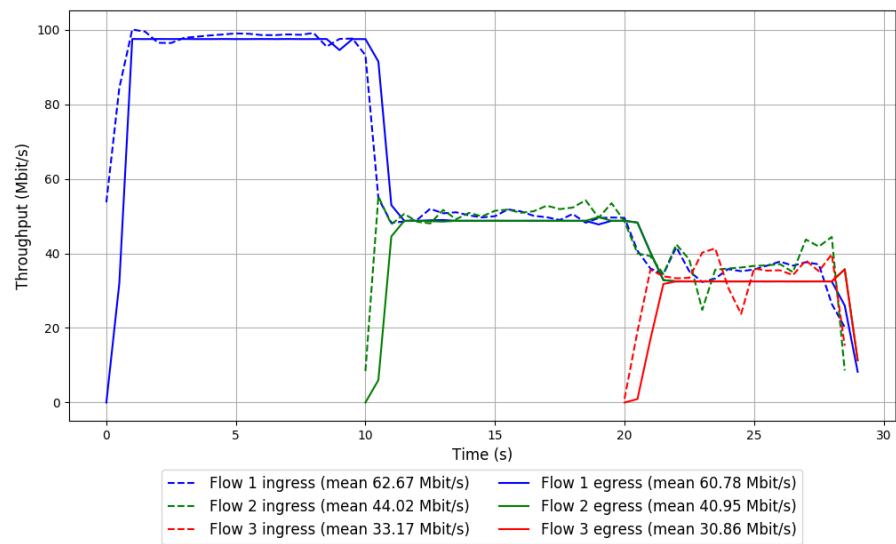
-- Flow 3:

Average throughput: 30.86 Mbit/s

95th percentile per-packet one-way delay: 316.033 ms

Loss rate: 7.57%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-12-11 16:17:58

End at: 2019-12-11 16:18:28

Local clock offset: -0.858 ms

Remote clock offset: 3.528 ms

Below is generated by plot.py at 2019-12-11 17:34:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.46 Mbit/s

95th percentile per-packet one-way delay: 185.124 ms

Loss rate: 4.06%

-- Flow 1:

Average throughput: 61.15 Mbit/s

95th percentile per-packet one-way delay: 111.455 ms

Loss rate: 2.83%

-- Flow 2:

Average throughput: 40.96 Mbit/s

95th percentile per-packet one-way delay: 192.876 ms

Loss rate: 5.94%

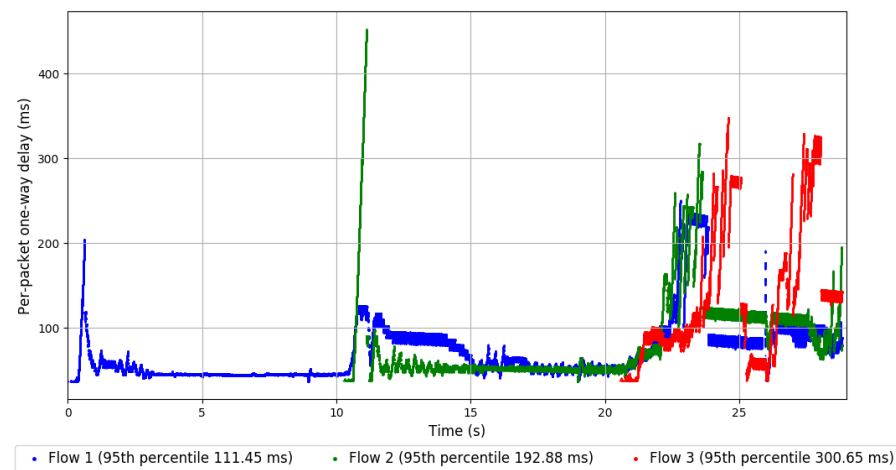
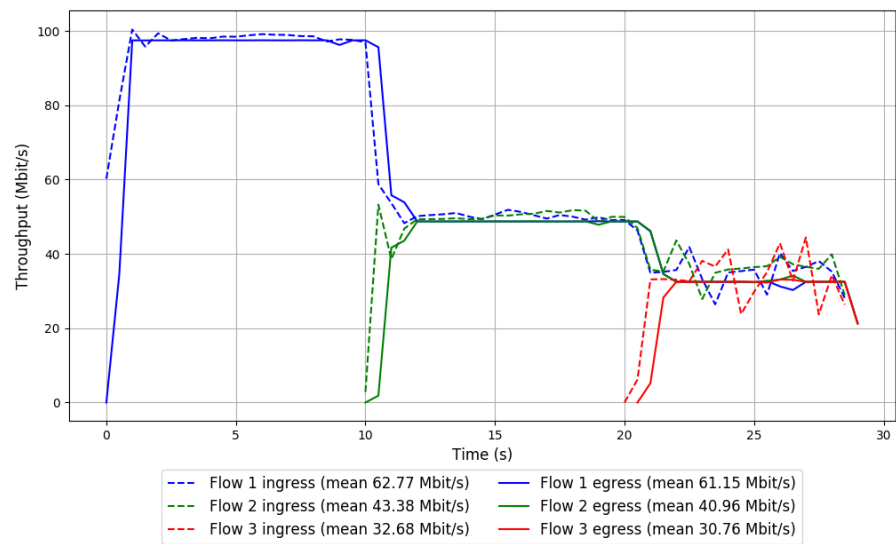
-- Flow 3:

Average throughput: 30.76 Mbit/s

95th percentile per-packet one-way delay: 300.654 ms

Loss rate: 6.69%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-12-11 16:48:51

End at: 2019-12-11 16:49:21

Local clock offset: 0.134 ms

Remote clock offset: 2.405 ms

Below is generated by plot.py at 2019-12-11 17:34:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 177.824 ms

Loss rate: 3.82%

-- Flow 1:

Average throughput: 65.45 Mbit/s

95th percentile per-packet one-way delay: 86.341 ms

Loss rate: 2.24%

-- Flow 2:

Average throughput: 36.91 Mbit/s

95th percentile per-packet one-way delay: 248.749 ms

Loss rate: 5.57%

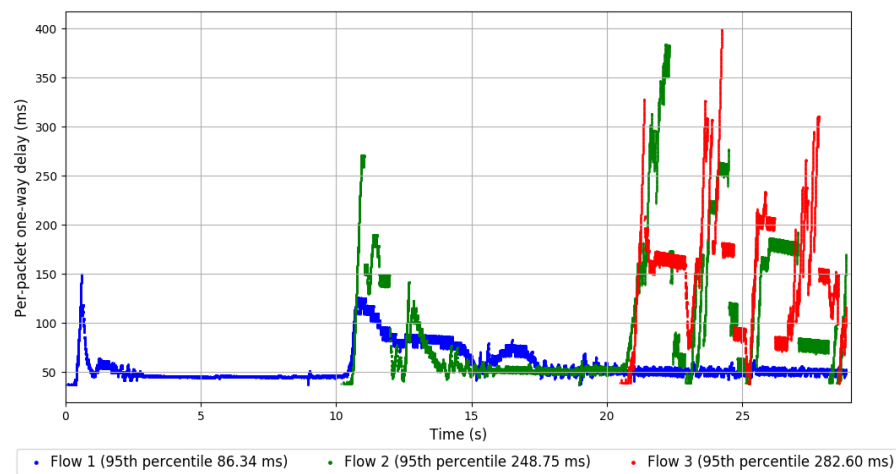
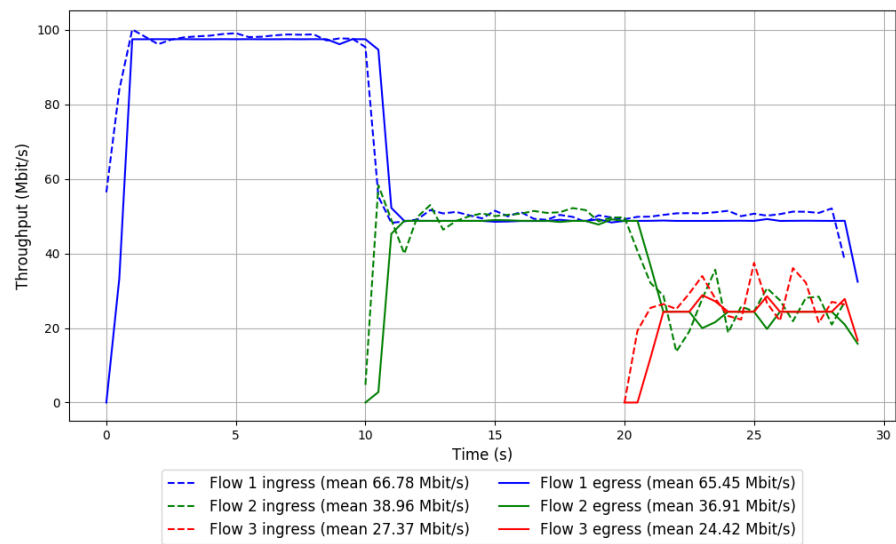
-- Flow 3:

Average throughput: 24.42 Mbit/s

95th percentile per-packet one-way delay: 282.597 ms

Loss rate: 11.50%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-12-11 17:21:18

End at: 2019-12-11 17:21:48

Local clock offset: 1.075 ms

Remote clock offset: 2.893 ms

Below is generated by plot.py at 2019-12-11 17:34:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.40 Mbit/s

95th percentile per-packet one-way delay: 167.210 ms

Loss rate: 4.21%

-- Flow 1:

Average throughput: 60.86 Mbit/s

95th percentile per-packet one-way delay: 177.882 ms

Loss rate: 2.50%

-- Flow 2:

Average throughput: 41.03 Mbit/s

95th percentile per-packet one-way delay: 155.809 ms

Loss rate: 6.53%

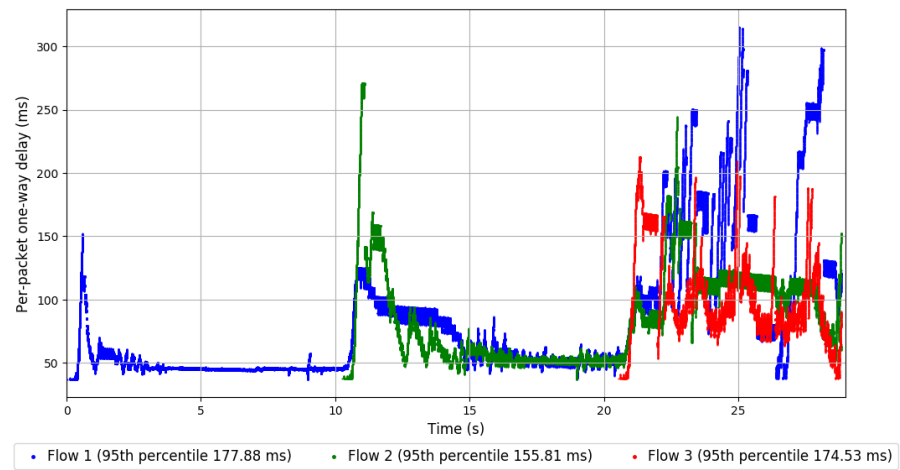
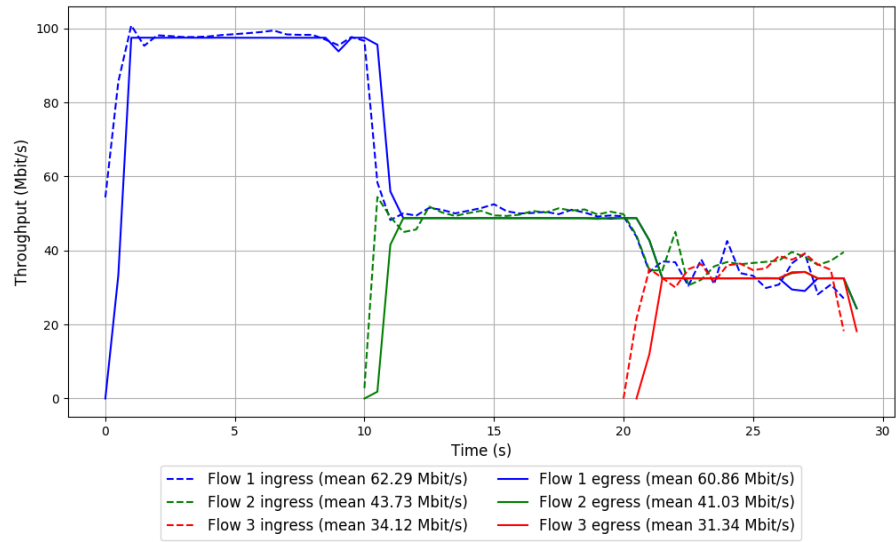
-- Flow 3:

Average throughput: 31.34 Mbit/s

95th percentile per-packet one-way delay: 174.527 ms

Loss rate: 8.38%

Run 5: Report of Indigo-MusesT — Data Link

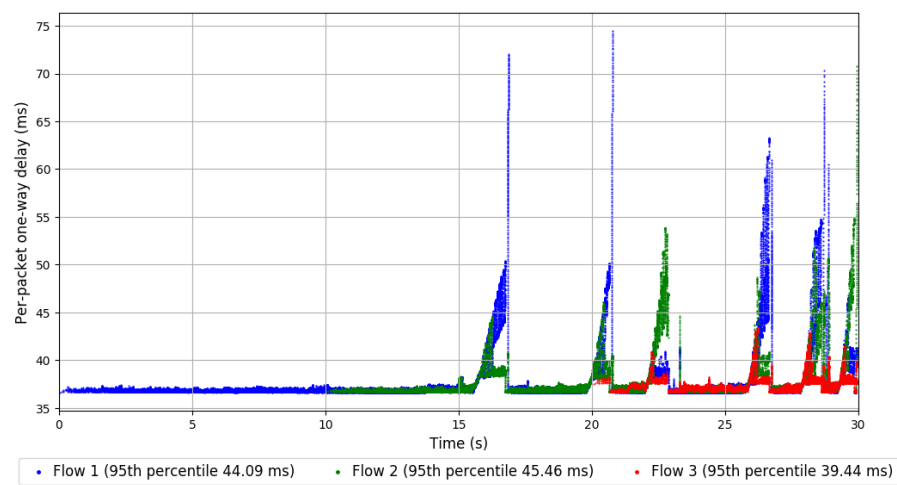
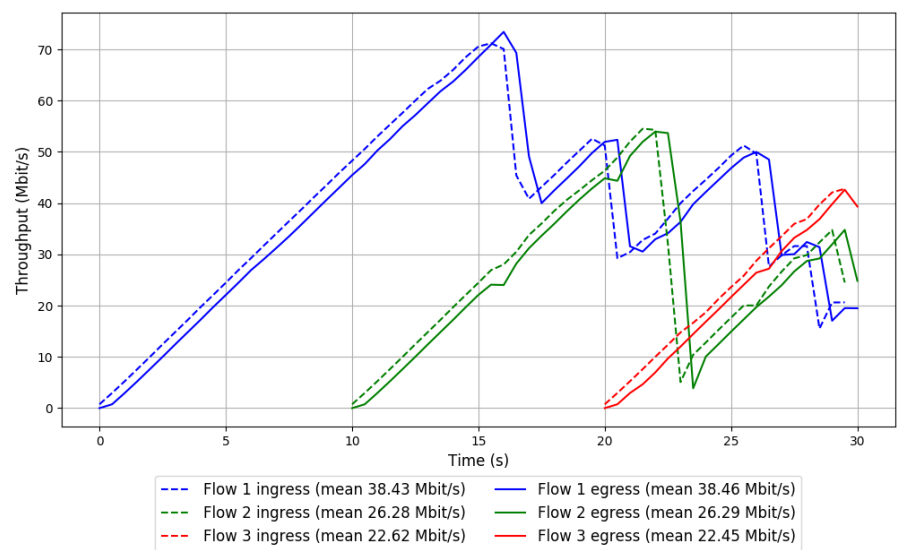


```
Run 1: Statistics of LEDBAT

Start at: 2019-12-11 14:55:18
End at: 2019-12-11 14:55:48
Local clock offset: 0.778 ms
Remote clock offset: 2.767 ms

# Below is generated by plot.py at 2019-12-11 17:34:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.38 Mbit/s
95th percentile per-packet one-way delay: 44.019 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 38.46 Mbit/s
95th percentile per-packet one-way delay: 44.094 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 45.460 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 22.45 Mbit/s
95th percentile per-packet one-way delay: 39.442 ms
Loss rate: 1.45%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-12-11 15:24:53

End at: 2019-12-11 15:25:23

Local clock offset: 1.742 ms

Remote clock offset: 3.752 ms

Below is generated by plot.py at 2019-12-11 17:34:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.16 Mbit/s

95th percentile per-packet one-way delay: 43.536 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 34.02 Mbit/s

95th percentile per-packet one-way delay: 43.364 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 28.93 Mbit/s

95th percentile per-packet one-way delay: 44.070 ms

Loss rate: 0.33%

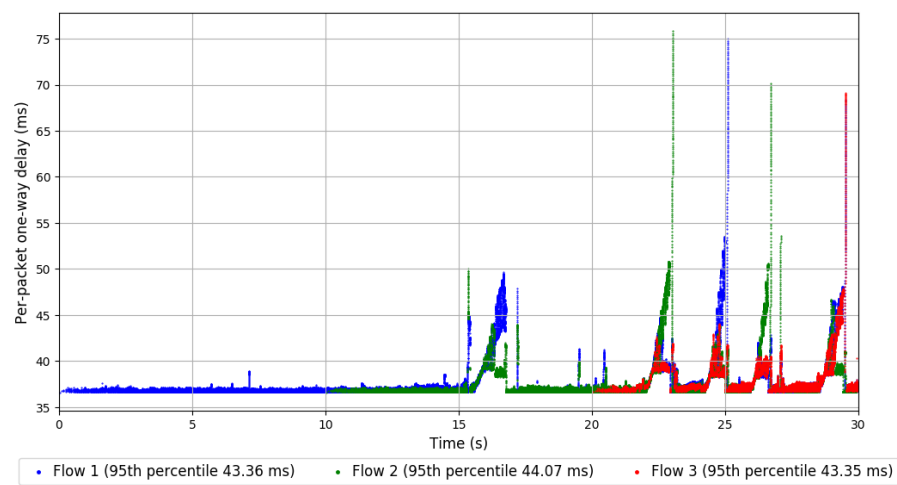
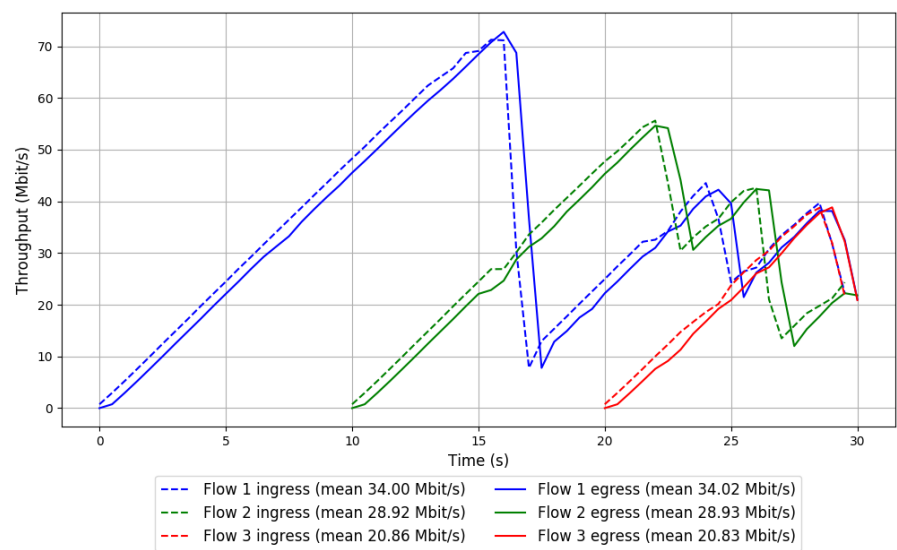
-- Flow 3:

Average throughput: 20.83 Mbit/s

95th percentile per-packet one-way delay: 43.348 ms

Loss rate: 0.82%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-12-11 15:55:28

End at: 2019-12-11 15:55:58

Local clock offset: 1.025 ms

Remote clock offset: 3.813 ms

Below is generated by plot.py at 2019-12-11 17:34:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.11 Mbit/s

95th percentile per-packet one-way delay: 44.044 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 36.58 Mbit/s

95th percentile per-packet one-way delay: 43.840 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 32.91 Mbit/s

95th percentile per-packet one-way delay: 43.969 ms

Loss rate: 0.37%

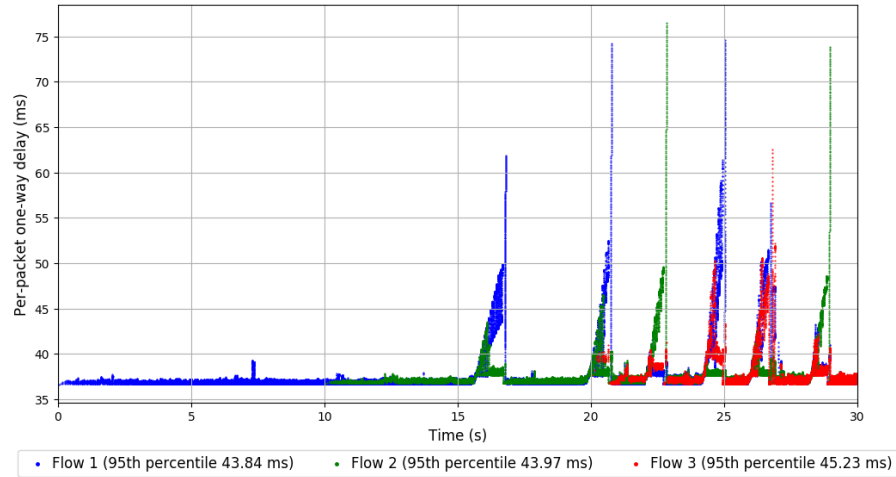
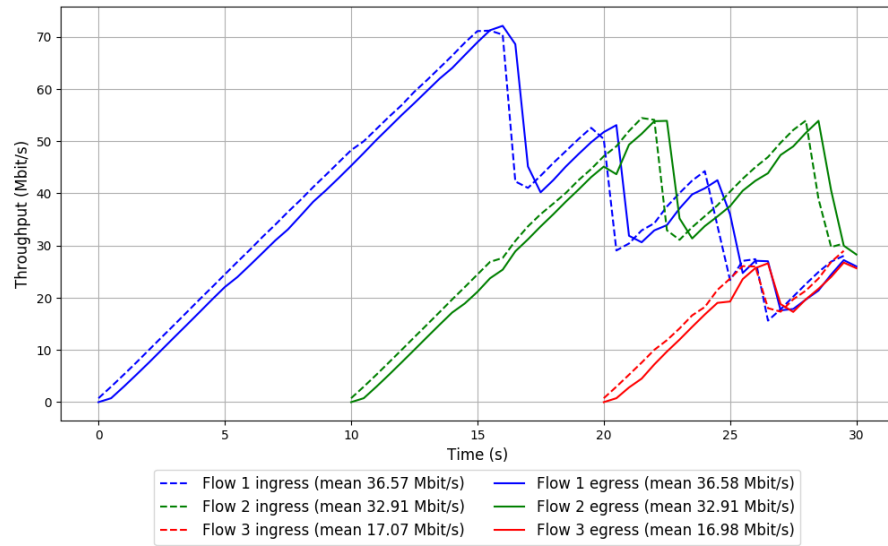
-- Flow 3:

Average throughput: 16.98 Mbit/s

95th percentile per-packet one-way delay: 45.229 ms

Loss rate: 1.27%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-12-11 16:26:00

End at: 2019-12-11 16:26:30

Local clock offset: -1.641 ms

Remote clock offset: 3.693 ms

Below is generated by plot.py at 2019-12-11 17:34:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 44.815 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 36.49 Mbit/s

95th percentile per-packet one-way delay: 44.365 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 33.19 Mbit/s

95th percentile per-packet one-way delay: 43.979 ms

Loss rate: 0.35%

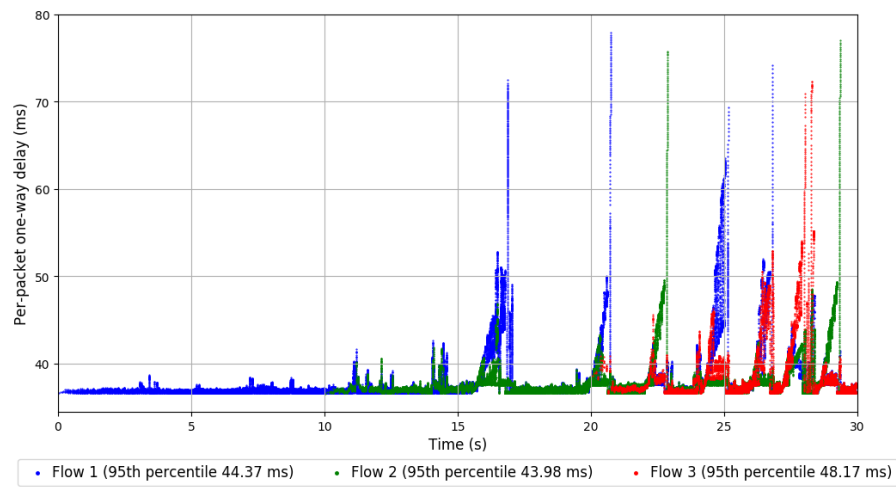
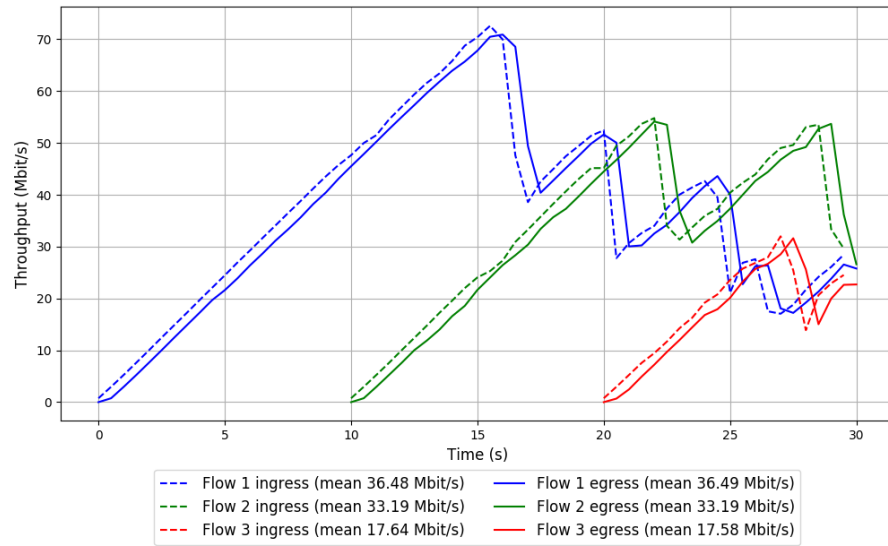
-- Flow 3:

Average throughput: 17.58 Mbit/s

95th percentile per-packet one-way delay: 48.166 ms

Loss rate: 1.07%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-12-11 16:57:20

End at: 2019-12-11 16:57:50

Local clock offset: 0.856 ms

Remote clock offset: 2.087 ms

Below is generated by plot.py at 2019-12-11 17:34:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.39 Mbit/s

95th percentile per-packet one-way delay: 44.056 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 39.70 Mbit/s

95th percentile per-packet one-way delay: 43.722 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 28.83 Mbit/s

95th percentile per-packet one-way delay: 44.813 ms

Loss rate: 0.28%

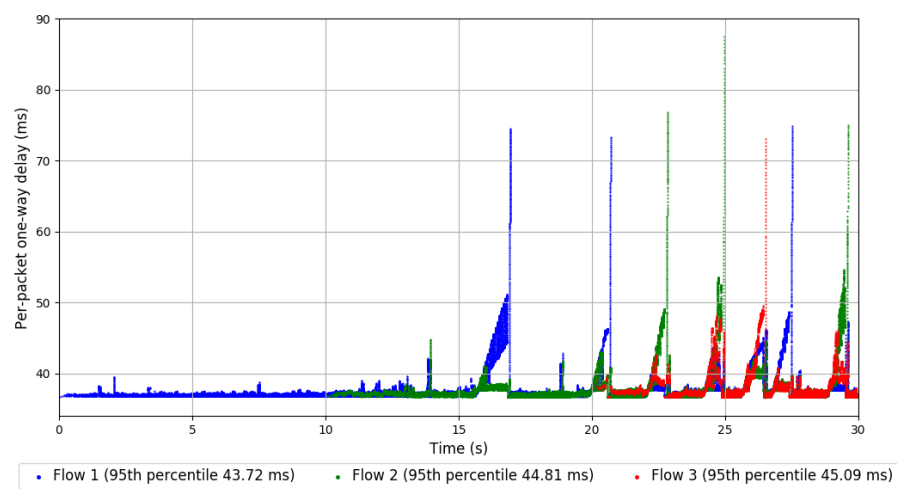
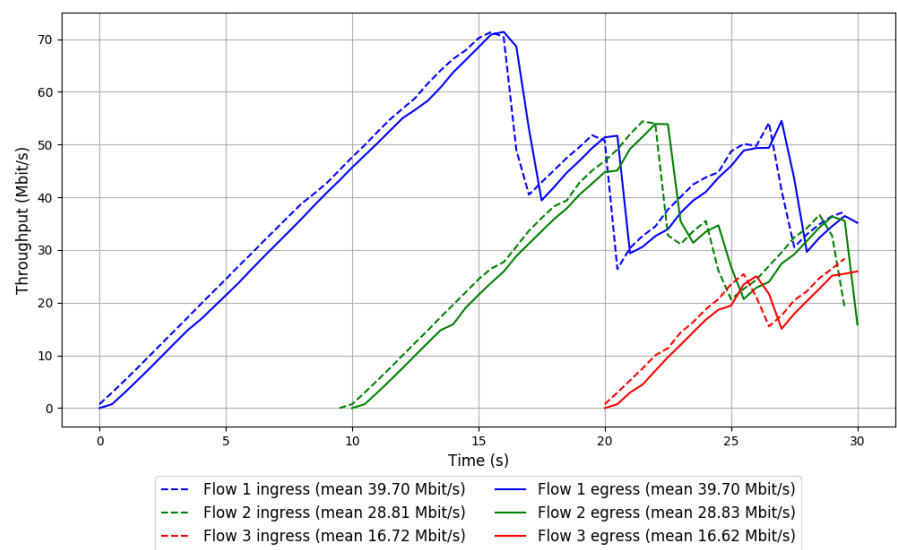
-- Flow 3:

Average throughput: 16.62 Mbit/s

95th percentile per-packet one-way delay: 45.086 ms

Loss rate: 1.32%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-12-11 15:12:33

End at: 2019-12-11 15:13:03

Local clock offset: 1.52 ms

Remote clock offset: 3.424 ms

Below is generated by plot.py at 2019-12-11 17:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 50.707 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 56.54 Mbit/s

95th percentile per-packet one-way delay: 49.752 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 40.54 Mbit/s

95th percentile per-packet one-way delay: 52.771 ms

Loss rate: 0.26%

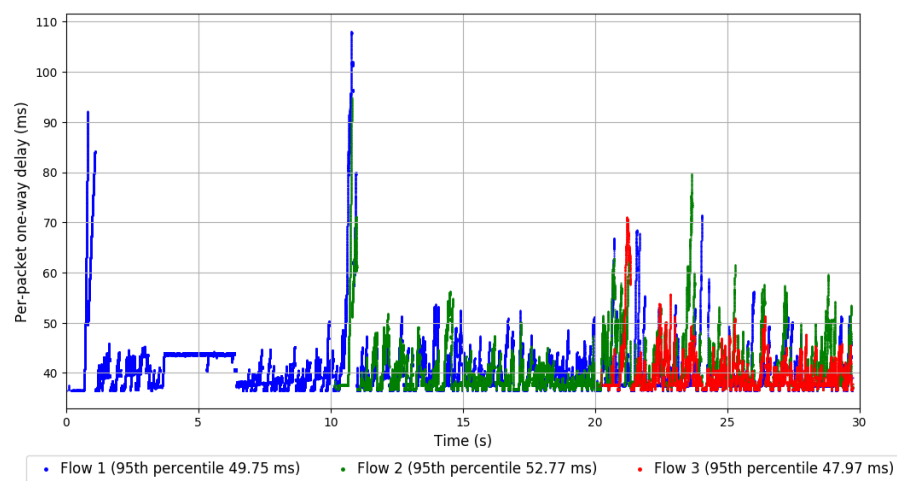
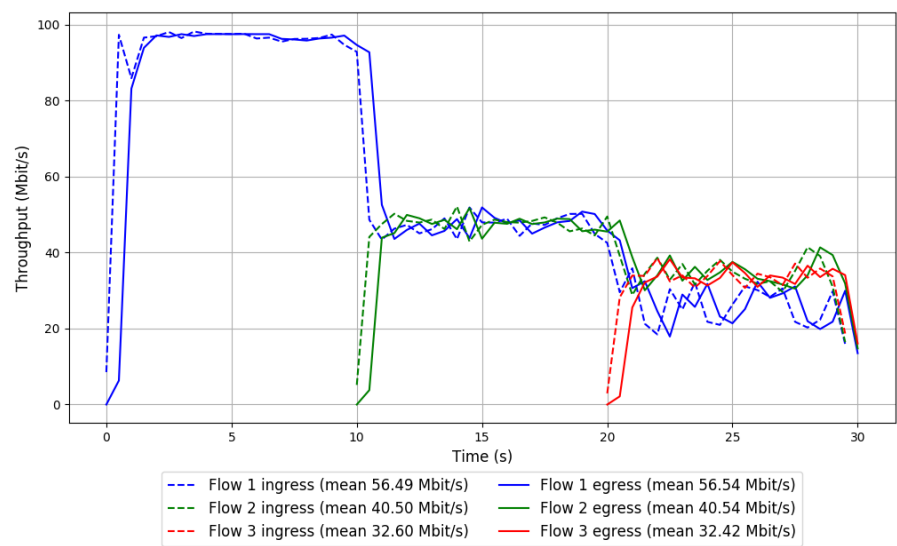
-- Flow 3:

Average throughput: 32.42 Mbit/s

95th percentile per-packet one-way delay: 47.970 ms

Loss rate: 1.28%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2019-12-11 15:42:42

End at: 2019-12-11 15:43:12

Local clock offset: 1.606 ms

Remote clock offset: 3.595 ms

Below is generated by plot.py at 2019-12-11 17:35:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 52.852 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 57.59 Mbit/s

95th percentile per-packet one-way delay: 49.434 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 39.02 Mbit/s

95th percentile per-packet one-way delay: 58.268 ms

Loss rate: 0.32%

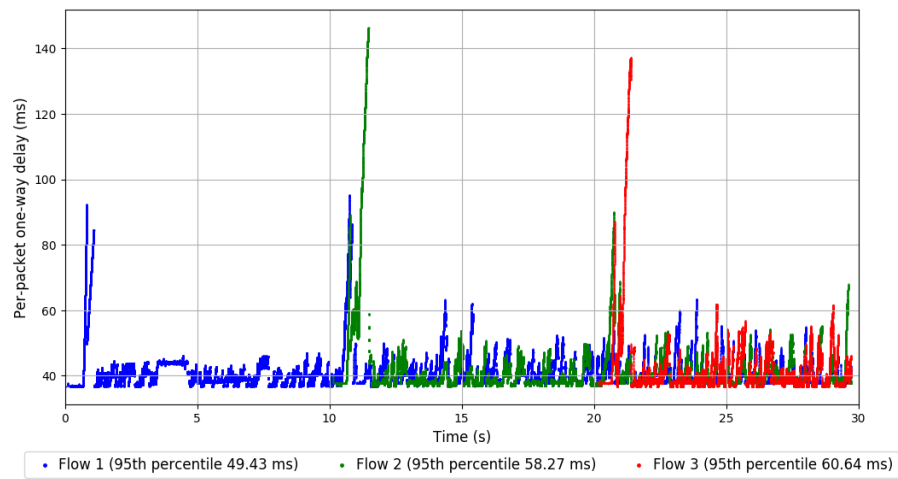
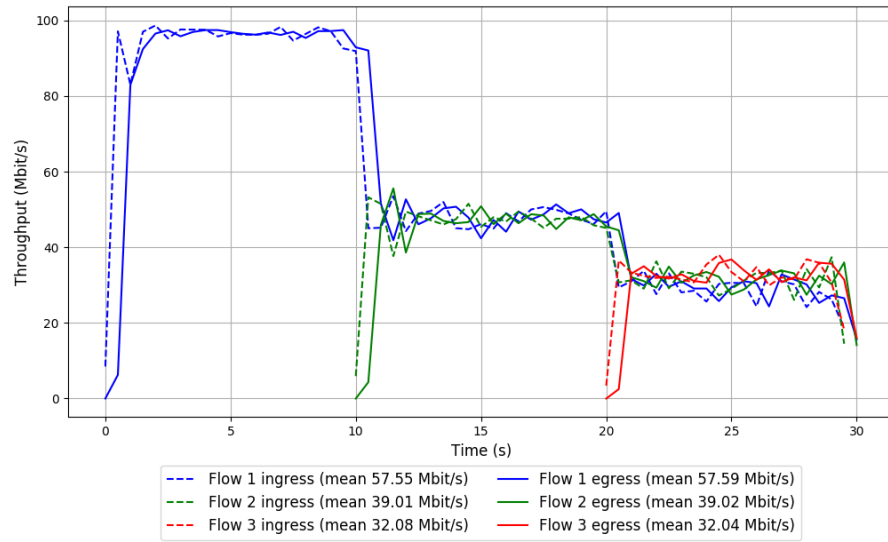
-- Flow 3:

Average throughput: 32.04 Mbit/s

95th percentile per-packet one-way delay: 60.642 ms

Loss rate: 0.85%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2019-12-11 16:12:56

End at: 2019-12-11 16:13:26

Local clock offset: -0.104 ms

Remote clock offset: 3.585 ms

Below is generated by plot.py at 2019-12-11 17:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.79 Mbit/s

95th percentile per-packet one-way delay: 51.454 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 54.12 Mbit/s

95th percentile per-packet one-way delay: 50.379 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 47.09 Mbit/s

95th percentile per-packet one-way delay: 49.941 ms

Loss rate: 0.41%

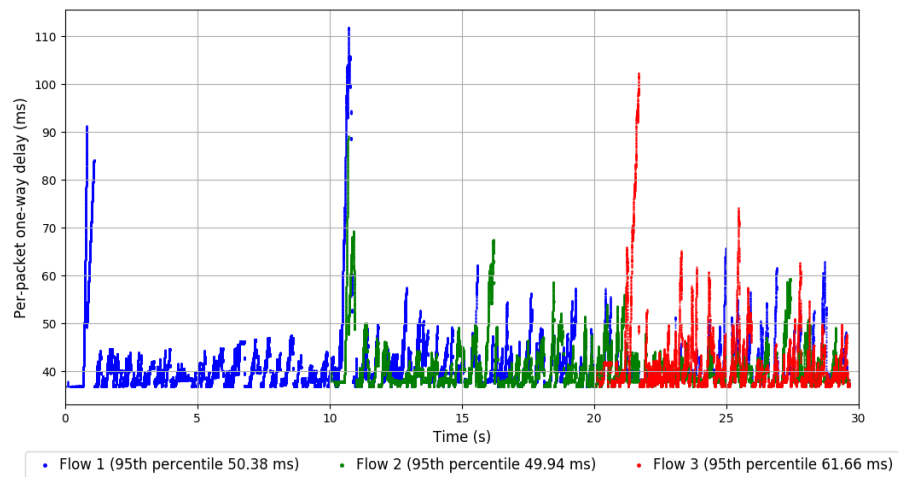
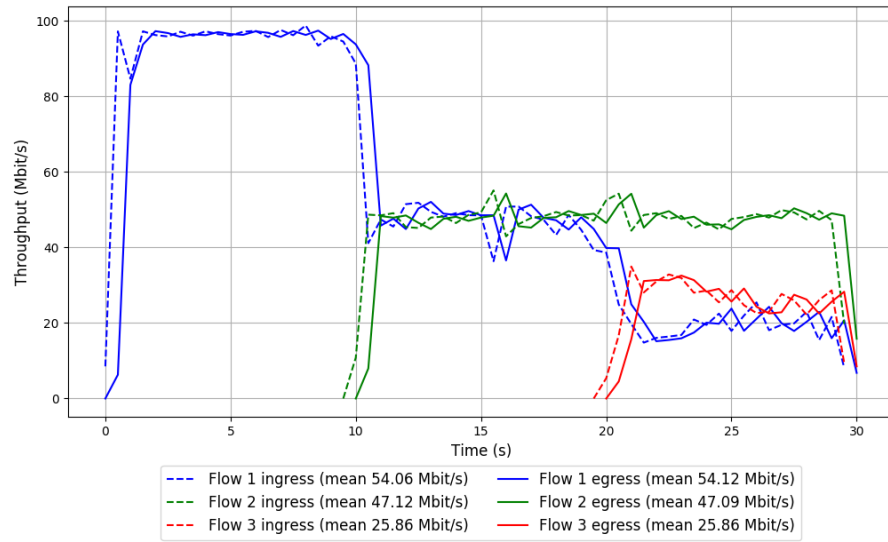
-- Flow 3:

Average throughput: 25.86 Mbit/s

95th percentile per-packet one-way delay: 61.656 ms

Loss rate: 0.73%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-12-11 16:43:44

End at: 2019-12-11 16:44:14

Local clock offset: -0.745 ms

Remote clock offset: 2.74 ms

Below is generated by plot.py at 2019-12-11 17:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.52 Mbit/s

95th percentile per-packet one-way delay: 51.554 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 57.00 Mbit/s

95th percentile per-packet one-way delay: 49.589 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 39.39 Mbit/s

95th percentile per-packet one-way delay: 51.172 ms

Loss rate: 0.28%

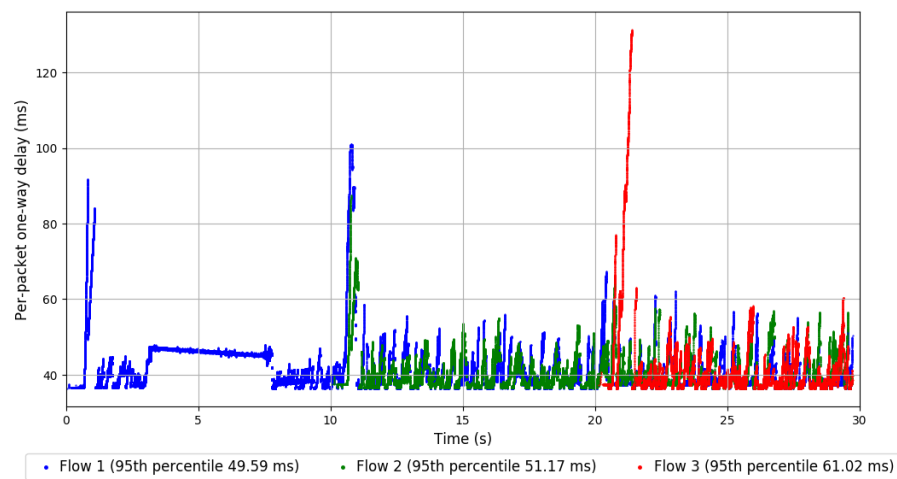
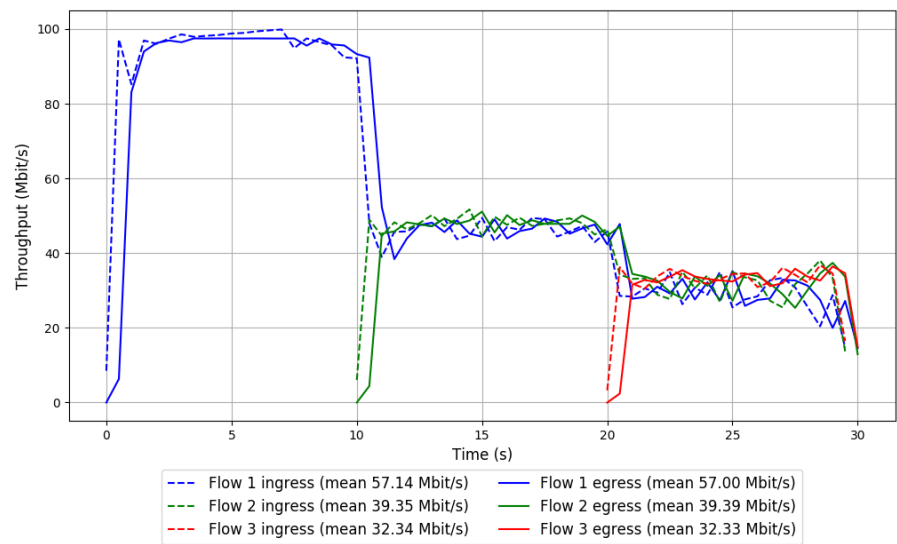
-- Flow 3:

Average throughput: 32.33 Mbit/s

95th percentile per-packet one-way delay: 61.024 ms

Loss rate: 0.76%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-12-11 17:16:12

End at: 2019-12-11 17:16:42

Local clock offset: 1.108 ms

Remote clock offset: 2.537 ms

Below is generated by plot.py at 2019-12-11 17:36:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.85 Mbit/s

95th percentile per-packet one-way delay: 52.227 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 53.43 Mbit/s

95th percentile per-packet one-way delay: 48.791 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 37.82 Mbit/s

95th percentile per-packet one-way delay: 54.407 ms

Loss rate: 0.32%

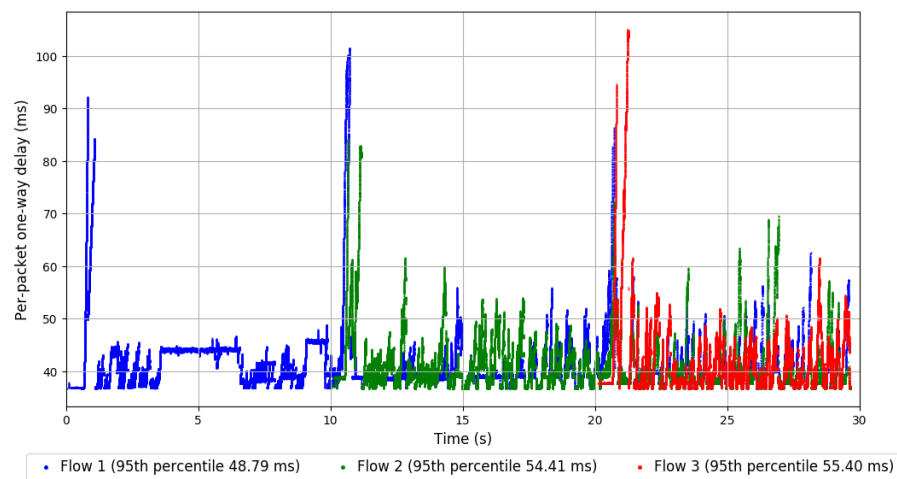
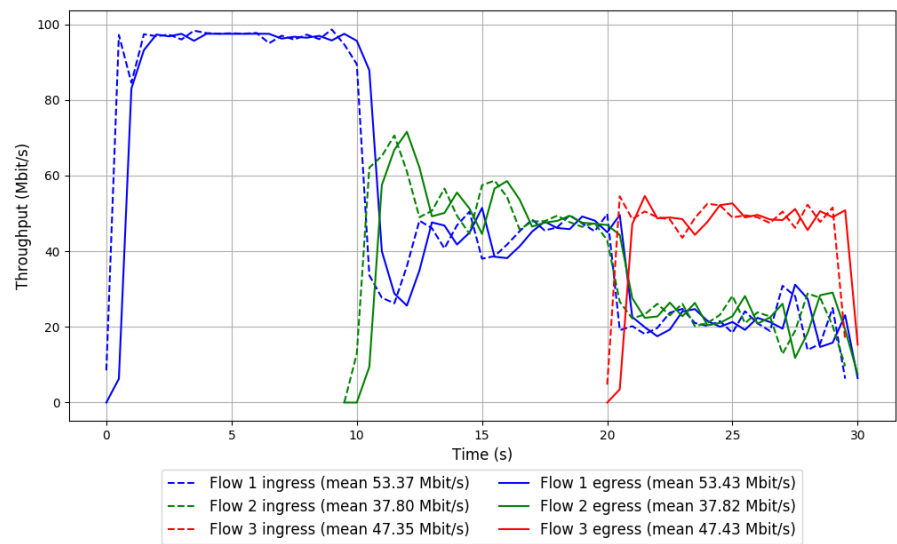
-- Flow 3:

Average throughput: 47.43 Mbit/s

95th percentile per-packet one-way delay: 55.395 ms

Loss rate: 0.69%

Run 5: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 14:50:21

End at: 2019-12-11 14:50:51

Local clock offset: 0.246 ms

Remote clock offset: 2.763 ms

Below is generated by plot.py at 2019-12-11 17:36:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.67 Mbit/s

95th percentile per-packet one-way delay: 219.424 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 46.15 Mbit/s

95th percentile per-packet one-way delay: 220.073 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 33.23 Mbit/s

95th percentile per-packet one-way delay: 254.580 ms

Loss rate: 1.22%

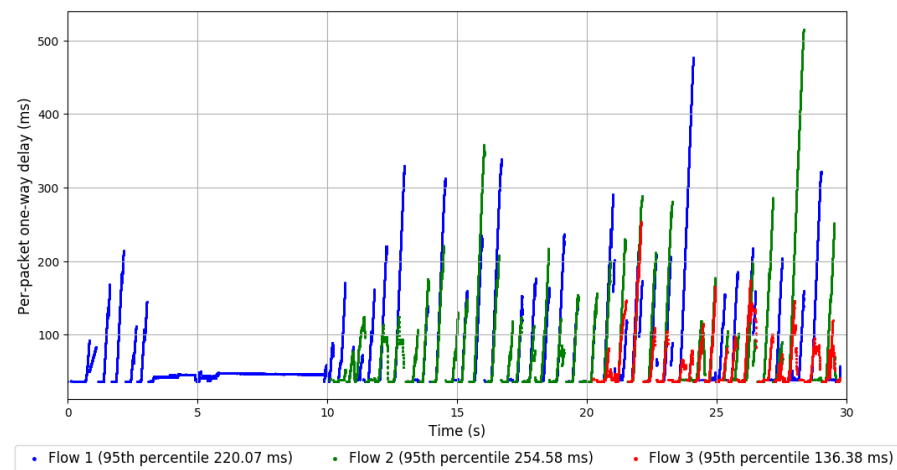
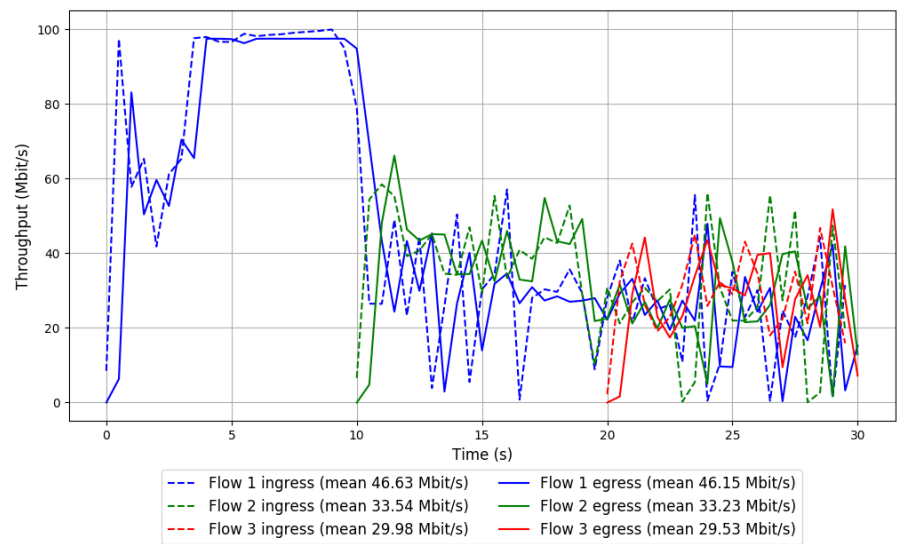
-- Flow 3:

Average throughput: 29.53 Mbit/s

95th percentile per-packet one-way delay: 136.378 ms

Loss rate: 2.26%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 15:19:56

End at: 2019-12-11 15:20:26

Local clock offset: 1.697 ms

Remote clock offset: 3.504 ms

Below is generated by plot.py at 2019-12-11 17:36:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.36 Mbit/s

95th percentile per-packet one-way delay: 233.652 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 48.31 Mbit/s

95th percentile per-packet one-way delay: 192.618 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 33.45 Mbit/s

95th percentile per-packet one-way delay: 267.085 ms

Loss rate: 0.51%

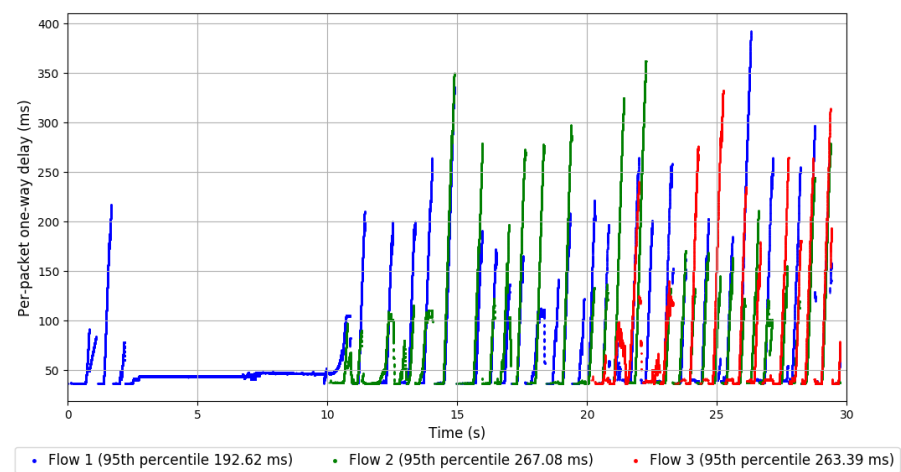
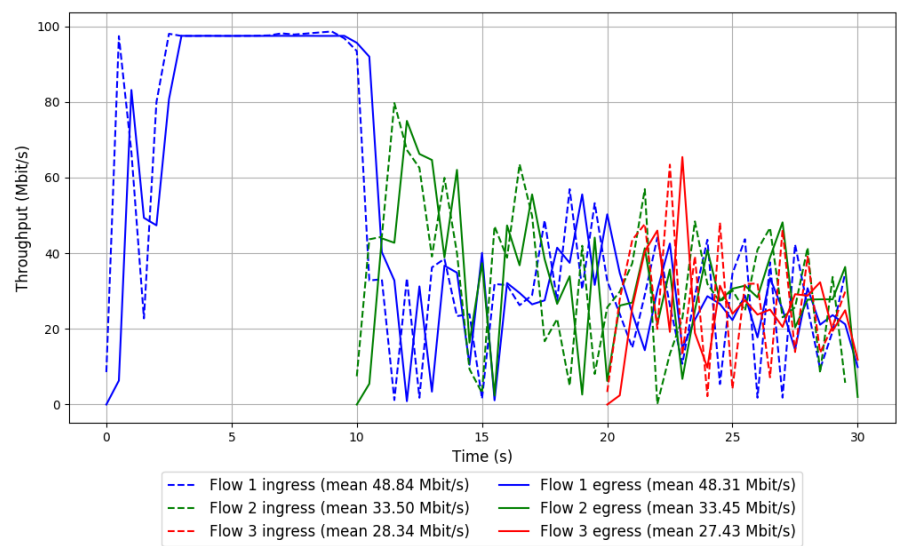
-- Flow 3:

Average throughput: 27.43 Mbit/s

95th percentile per-packet one-way delay: 263.393 ms

Loss rate: 3.68%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 15:50:29

End at: 2019-12-11 15:50:59

Local clock offset: 1.151 ms

Remote clock offset: 3.658 ms

Below is generated by plot.py at 2019-12-11 17:36:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.86 Mbit/s

95th percentile per-packet one-way delay: 267.870 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 49.60 Mbit/s

95th percentile per-packet one-way delay: 259.378 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 30.65 Mbit/s

95th percentile per-packet one-way delay: 297.045 ms

Loss rate: 2.03%

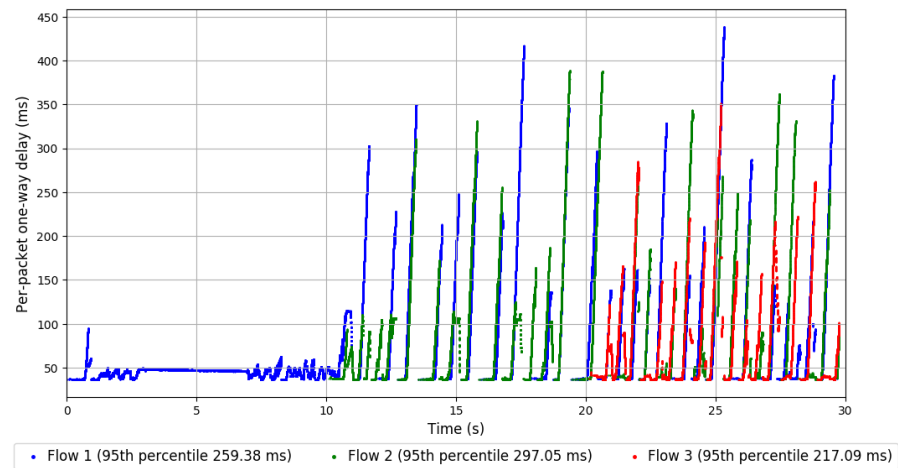
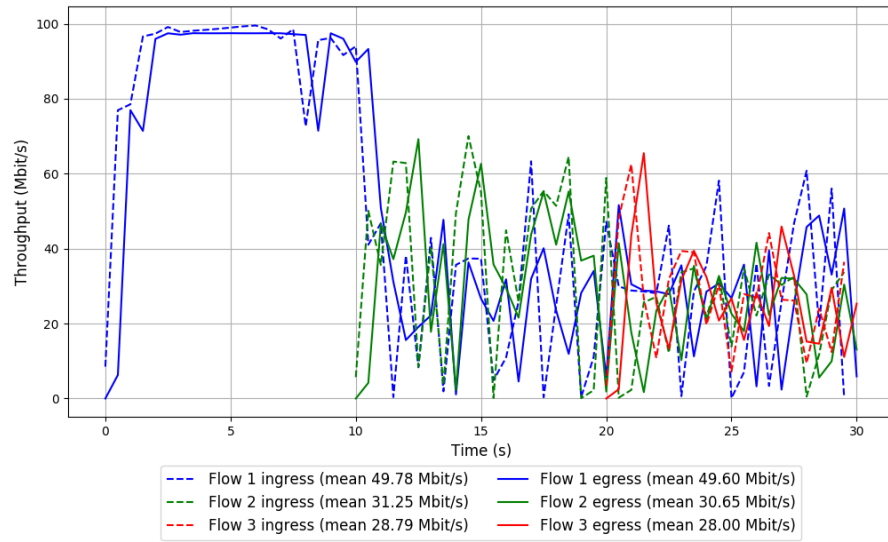
-- Flow 3:

Average throughput: 28.00 Mbit/s

95th percentile per-packet one-way delay: 217.087 ms

Loss rate: 2.55%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 16:20:33

End at: 2019-12-11 16:21:03

Local clock offset: -1.167 ms

Remote clock offset: 3.611 ms

Below is generated by plot.py at 2019-12-11 17:36:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.88 Mbit/s

95th percentile per-packet one-way delay: 214.523 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 47.64 Mbit/s

95th percentile per-packet one-way delay: 220.890 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 34.51 Mbit/s

95th percentile per-packet one-way delay: 254.034 ms

Loss rate: 1.26%

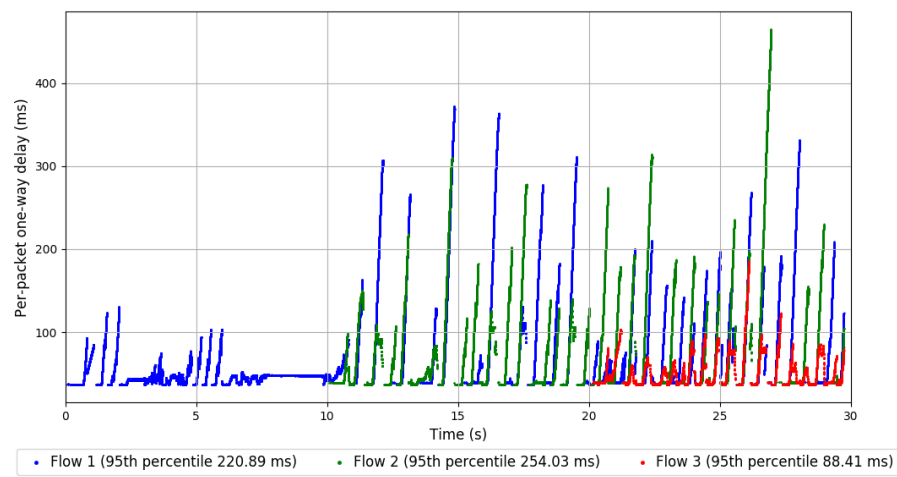
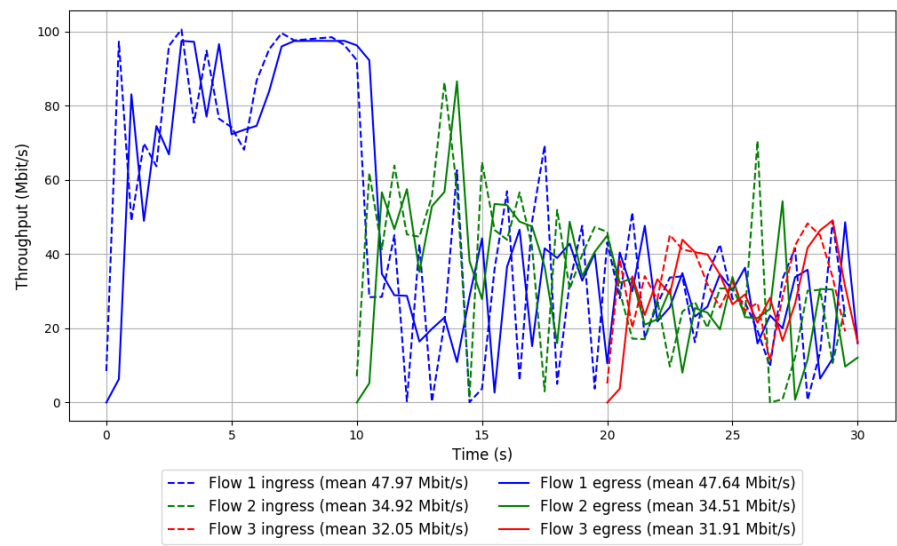
-- Flow 3:

Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 88.409 ms

Loss rate: 1.11%

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-12-11 16:51:37

End at: 2019-12-11 16:52:07

Local clock offset: 0.406 ms

Remote clock offset: 2.261 ms

Below is generated by plot.py at 2019-12-11 17:36:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.30 Mbit/s

95th percentile per-packet one-way delay: 281.456 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 43.37 Mbit/s

95th percentile per-packet one-way delay: 277.754 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 27.61 Mbit/s

95th percentile per-packet one-way delay: 291.419 ms

Loss rate: 0.46%

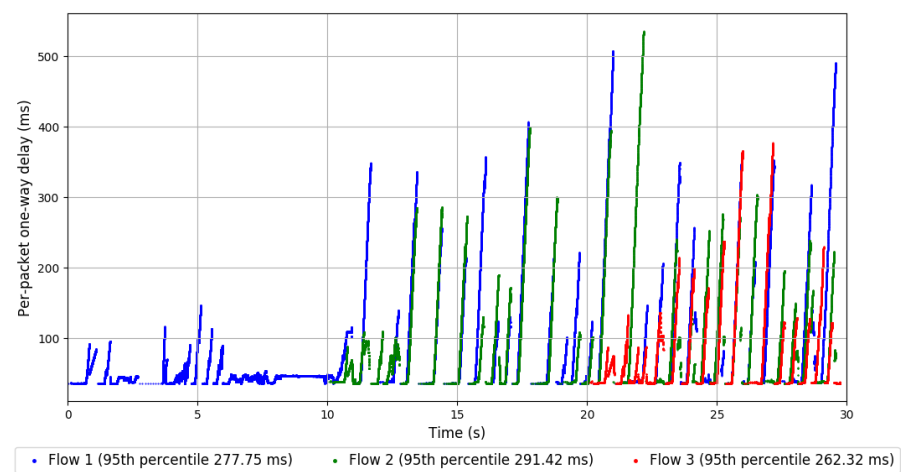
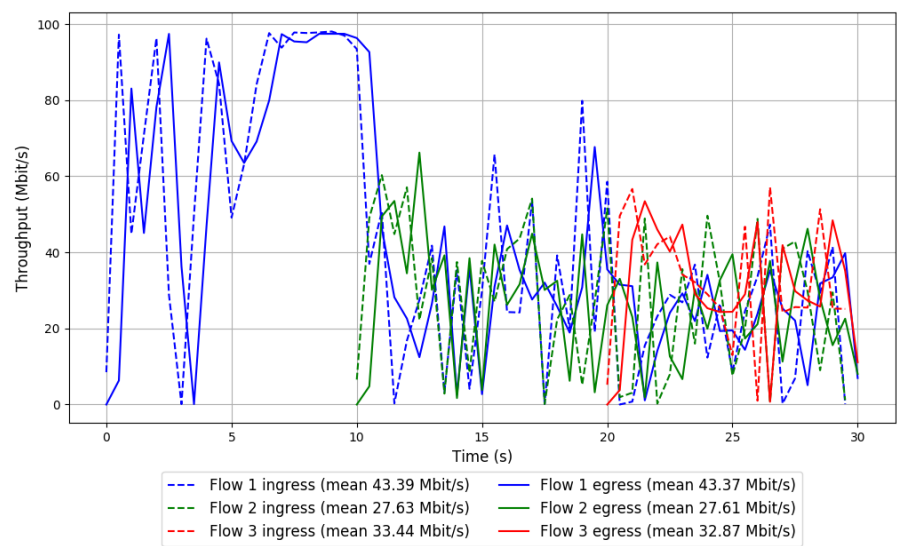
-- Flow 3:

Average throughput: 32.87 Mbit/s

95th percentile per-packet one-way delay: 262.321 ms

Loss rate: 2.44%

Run 5: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 15:14:59

End at: 2019-12-11 15:15:29

Local clock offset: 1.591 ms

Remote clock offset: 3.424 ms

Below is generated by plot.py at 2019-12-11 17:37:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.92 Mbit/s

95th percentile per-packet one-way delay: 49.927 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 55.06 Mbit/s

95th percentile per-packet one-way delay: 50.202 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 47.19 Mbit/s

95th percentile per-packet one-way delay: 49.367 ms

Loss rate: 0.45%

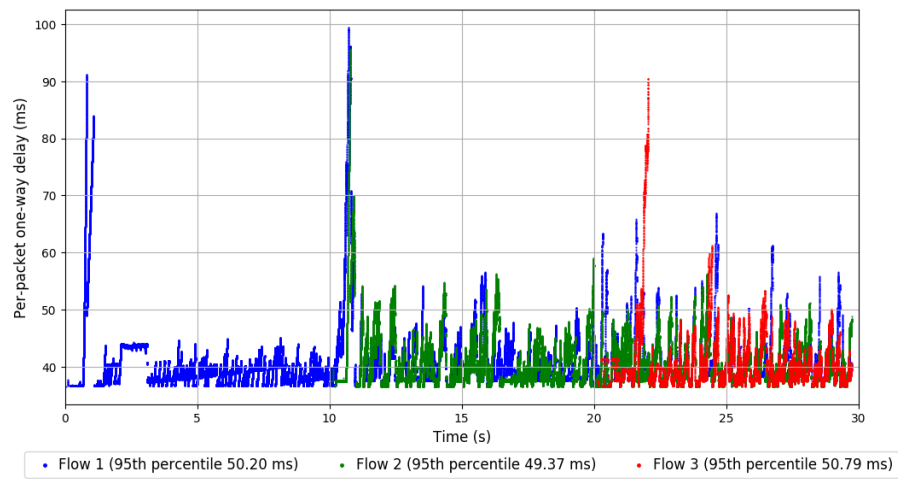
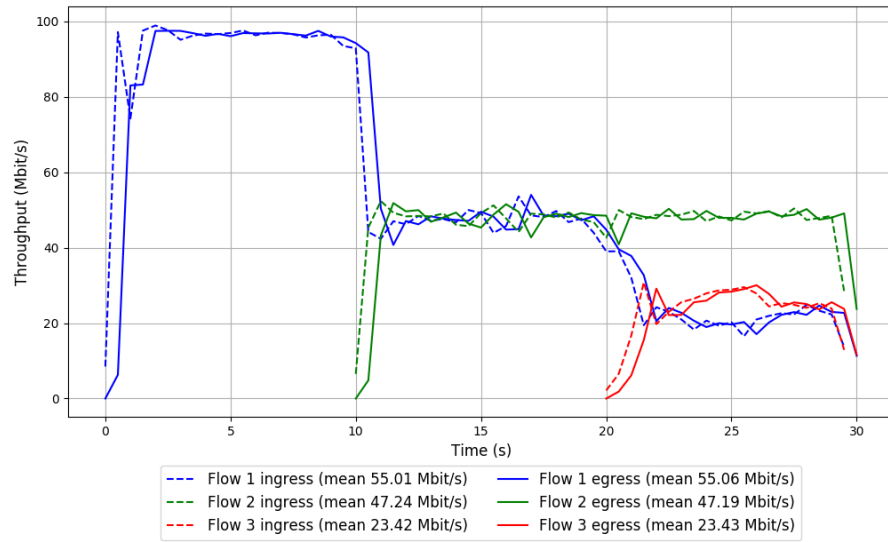
-- Flow 3:

Average throughput: 23.43 Mbit/s

95th percentile per-packet one-way delay: 50.787 ms

Loss rate: 0.75%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 15:45:20

End at: 2019-12-11 15:45:50

Local clock offset: 1.412 ms

Remote clock offset: 3.633 ms

Below is generated by plot.py at 2019-12-11 17:37:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.99 Mbit/s

95th percentile per-packet one-way delay: 52.724 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 62.67 Mbit/s

95th percentile per-packet one-way delay: 51.159 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 35.13 Mbit/s

95th percentile per-packet one-way delay: 52.285 ms

Loss rate: 0.29%

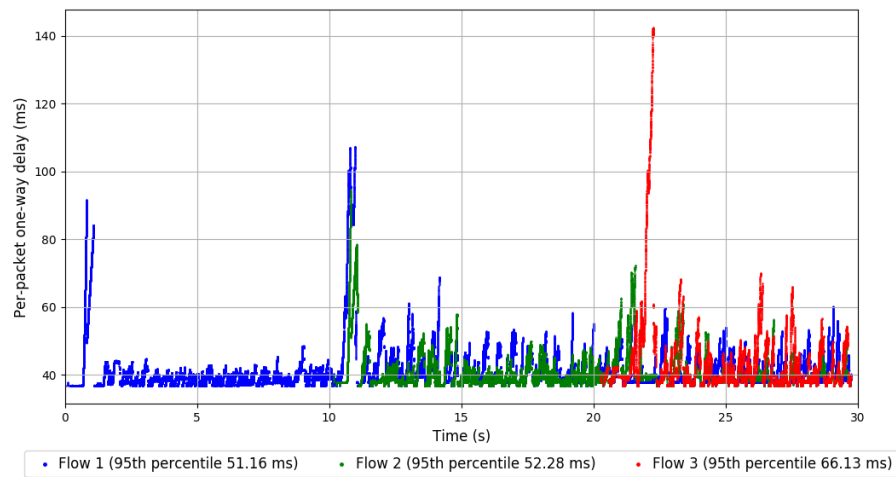
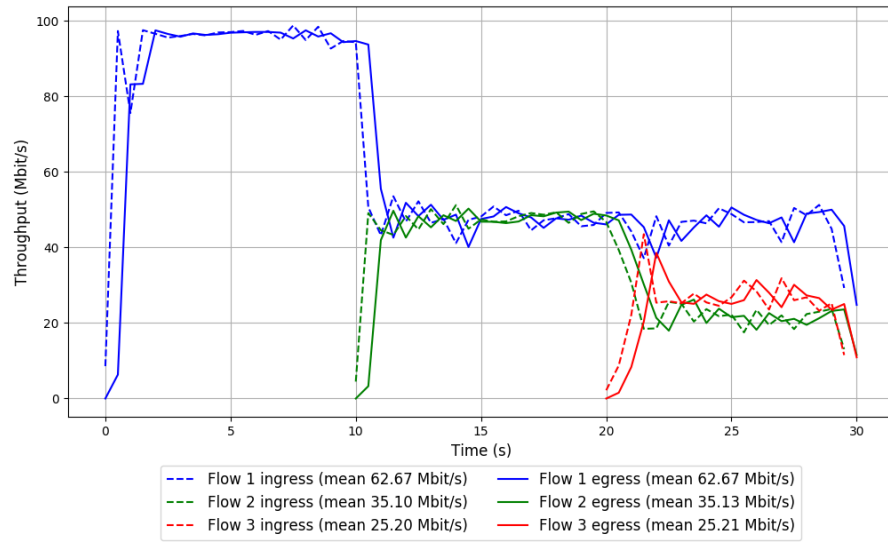
-- Flow 3:

Average throughput: 25.21 Mbit/s

95th percentile per-packet one-way delay: 66.128 ms

Loss rate: 0.73%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 16:15:26

End at: 2019-12-11 16:15:56

Local clock offset: -0.548 ms

Remote clock offset: 3.613 ms

Below is generated by plot.py at 2019-12-11 17:37:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.73 Mbit/s

95th percentile per-packet one-way delay: 50.040 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 54.54 Mbit/s

95th percentile per-packet one-way delay: 50.087 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 46.56 Mbit/s

95th percentile per-packet one-way delay: 46.560 ms

Loss rate: 0.36%

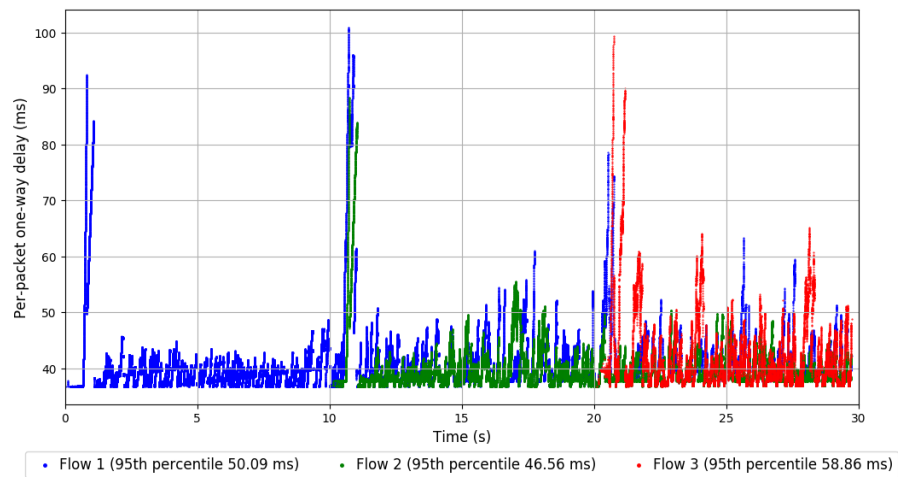
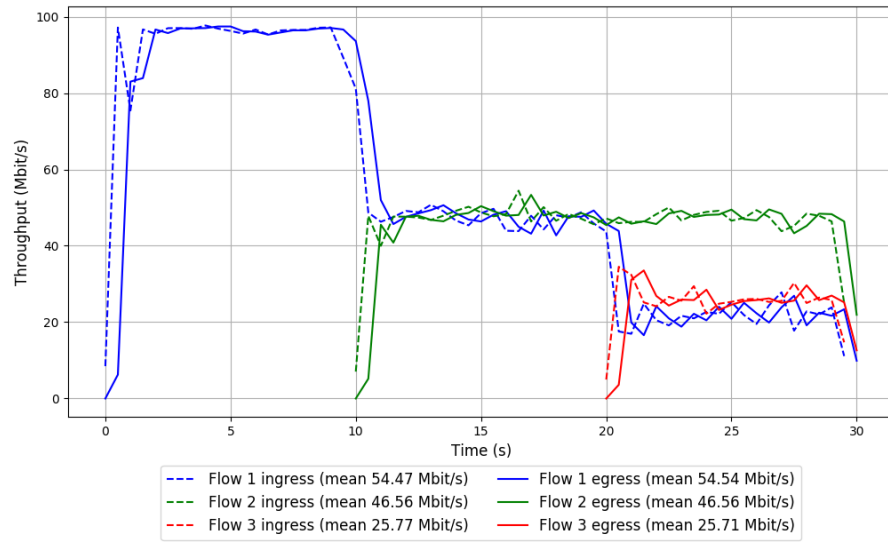
-- Flow 3:

Average throughput: 25.71 Mbit/s

95th percentile per-packet one-way delay: 58.860 ms

Loss rate: 0.92%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 16:46:13

End at: 2019-12-11 16:46:43

Local clock offset: -0.208 ms

Remote clock offset: 2.549 ms

Below is generated by plot.py at 2019-12-11 17:37:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.03 Mbit/s

95th percentile per-packet one-way delay: 51.664 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 54.78 Mbit/s

95th percentile per-packet one-way delay: 48.943 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 46.31 Mbit/s

95th percentile per-packet one-way delay: 46.010 ms

Loss rate: 0.42%

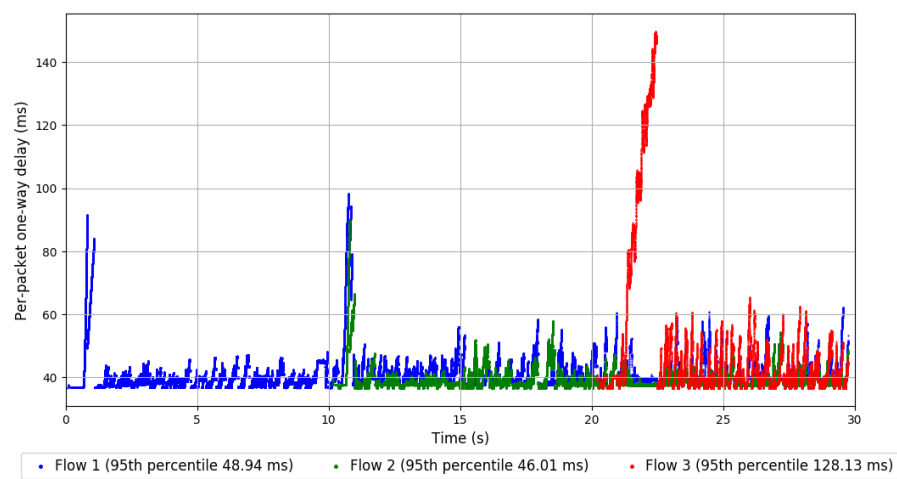
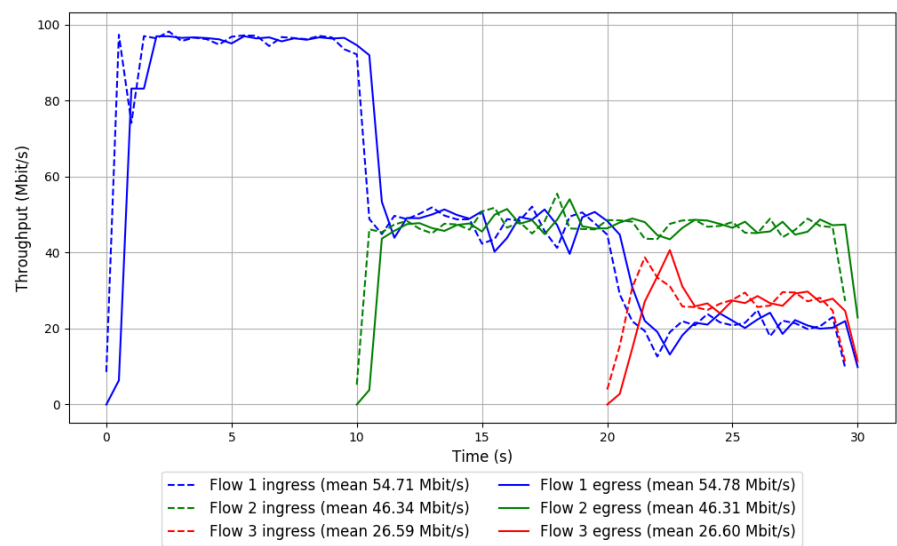
-- Flow 3:

Average throughput: 26.60 Mbit/s

95th percentile per-packet one-way delay: 128.135 ms

Loss rate: 0.69%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-12-11 17:18:45

End at: 2019-12-11 17:19:15

Local clock offset: 1.093 ms

Remote clock offset: 2.725 ms

Below is generated by plot.py at 2019-12-11 17:37:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.71 Mbit/s

95th percentile per-packet one-way delay: 51.154 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 54.34 Mbit/s

95th percentile per-packet one-way delay: 49.491 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 37.12 Mbit/s

95th percentile per-packet one-way delay: 58.243 ms

Loss rate: 0.24%

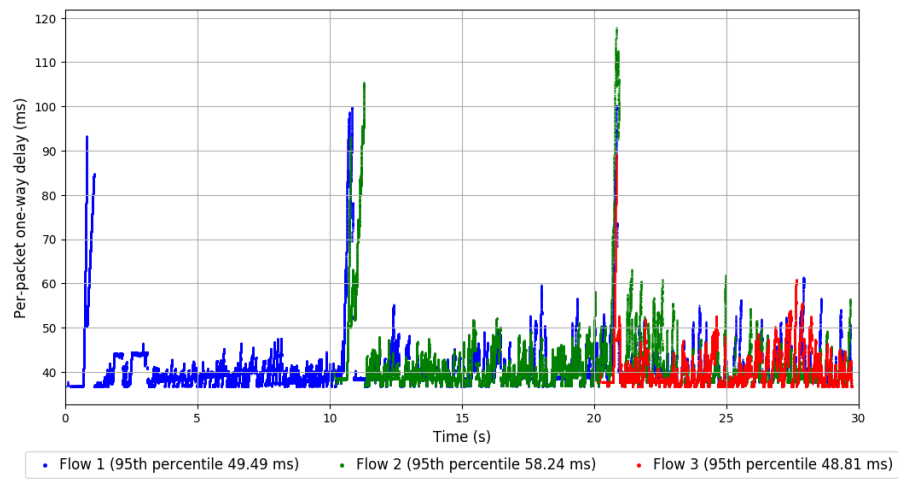
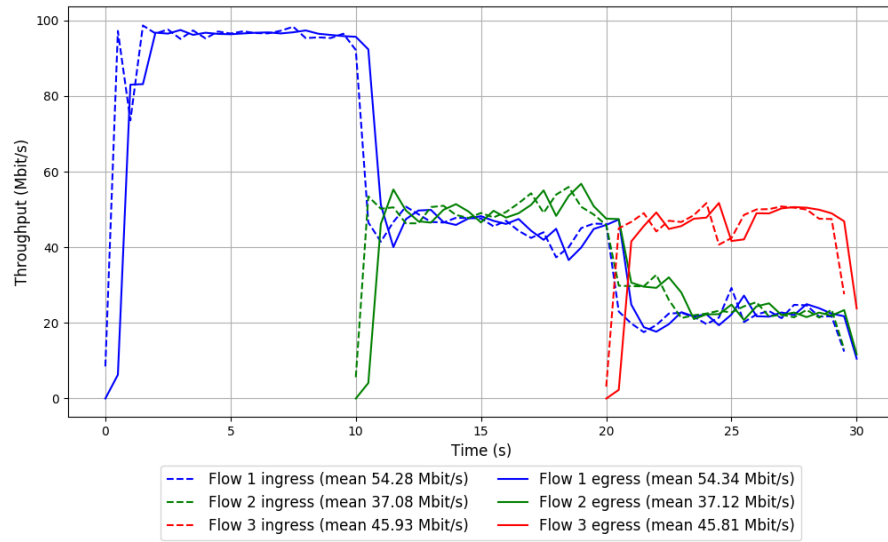
-- Flow 3:

Average throughput: 45.81 Mbit/s

95th percentile per-packet one-way delay: 48.806 ms

Loss rate: 0.98%

Run 5: Report of Muses_DecisionTreeR0 — Data Link

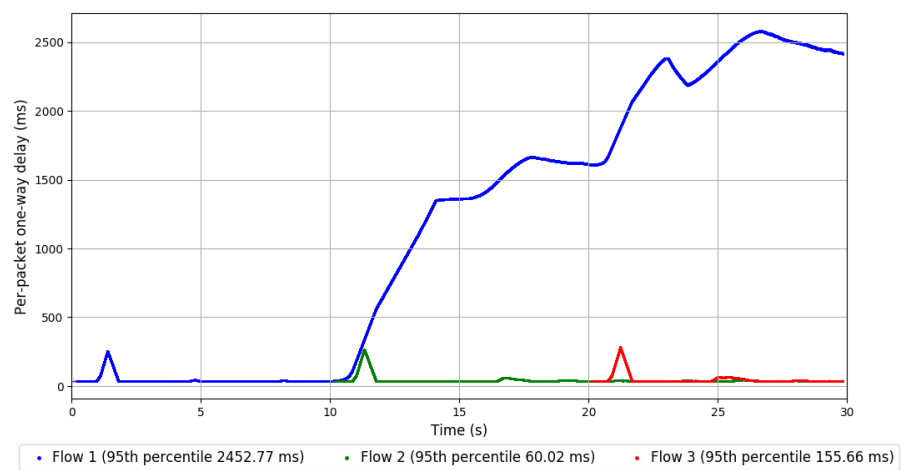
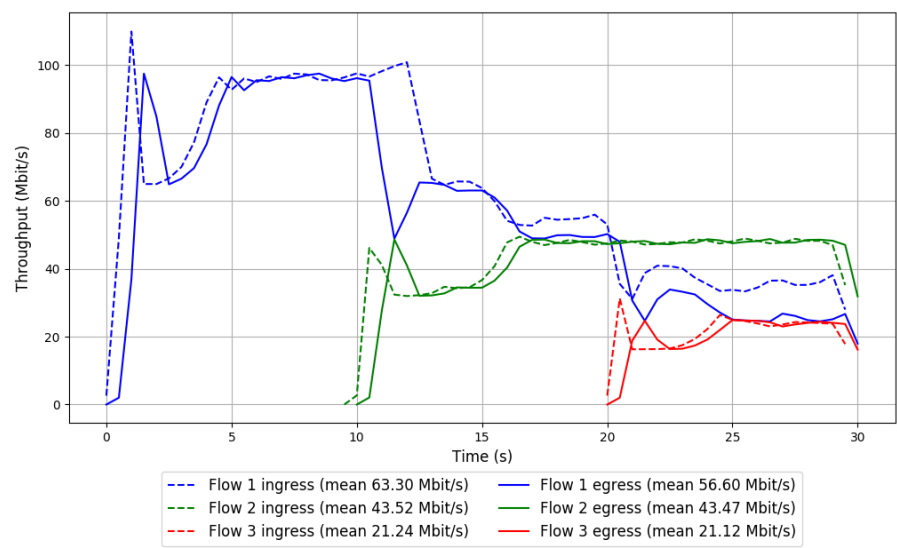


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-12-11 14:59:06
End at: 2019-12-11 14:59:36
Local clock offset: 1.038 ms
Remote clock offset: 2.892 ms

# Below is generated by plot.py at 2019-12-11 17:37:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 2343.906 ms
Loss rate: 7.09%
-- Flow 1:
Average throughput: 56.60 Mbit/s
95th percentile per-packet one-way delay: 2452.770 ms
Loss rate: 10.76%
-- Flow 2:
Average throughput: 43.47 Mbit/s
95th percentile per-packet one-way delay: 60.018 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 21.12 Mbit/s
95th percentile per-packet one-way delay: 155.661 ms
Loss rate: 1.29%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-12-11 15:28:41

End at: 2019-12-11 15:29:11

Local clock offset: 1.845 ms

Remote clock offset: 3.859 ms

Below is generated by plot.py at 2019-12-11 17:37:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.81 Mbit/s

95th percentile per-packet one-way delay: 2157.878 ms

Loss rate: 11.43%

-- Flow 1:

Average throughput: 57.78 Mbit/s

95th percentile per-packet one-way delay: 2160.022 ms

Loss rate: 10.59%

-- Flow 2:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 2250.600 ms

Loss rate: 13.61%

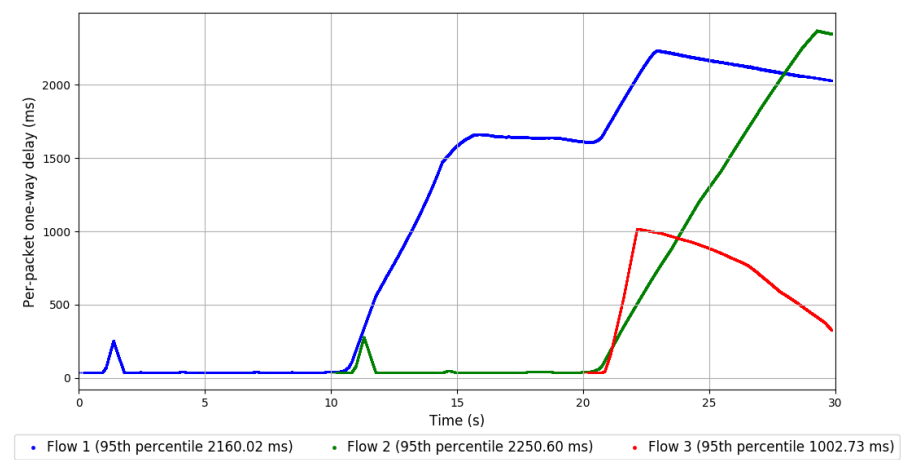
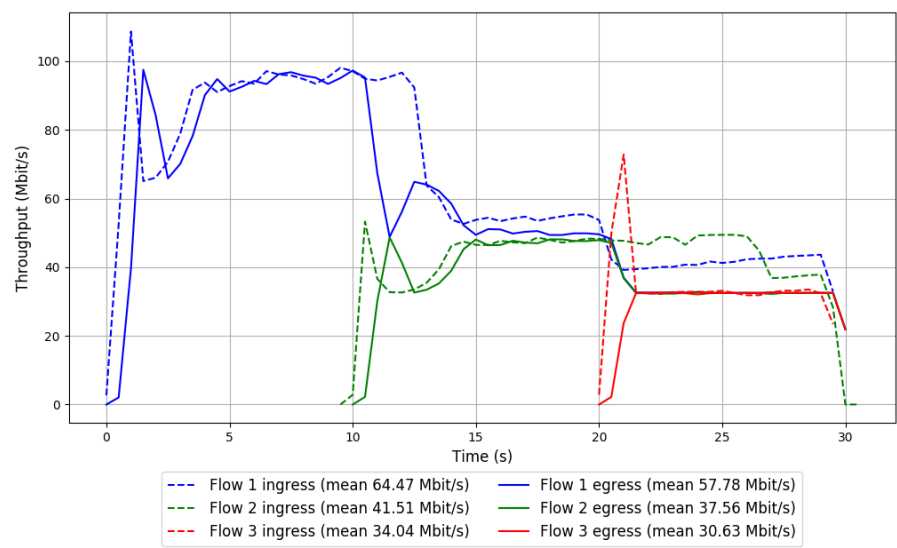
-- Flow 3:

Average throughput: 30.63 Mbit/s

95th percentile per-packet one-way delay: 1002.728 ms

Loss rate: 10.68%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-12-11 15:59:20

End at: 2019-12-11 15:59:50

Local clock offset: 0.977 ms

Remote clock offset: 3.922 ms

Below is generated by plot.py at 2019-12-11 17:38:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.64 Mbit/s

95th percentile per-packet one-way delay: 2146.151 ms

Loss rate: 11.57%

-- Flow 1:

Average throughput: 56.68 Mbit/s

95th percentile per-packet one-way delay: 2158.474 ms

Loss rate: 10.83%

-- Flow 2:

Average throughput: 37.47 Mbit/s

95th percentile per-packet one-way delay: 2135.507 ms

Loss rate: 13.52%

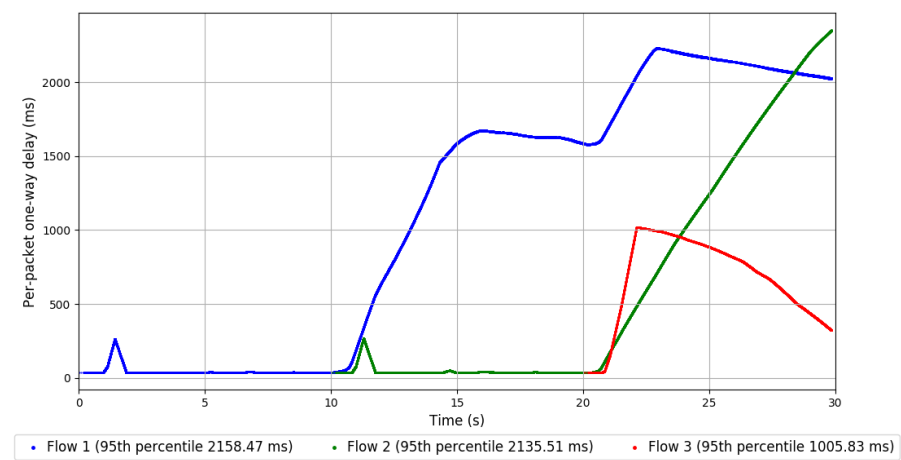
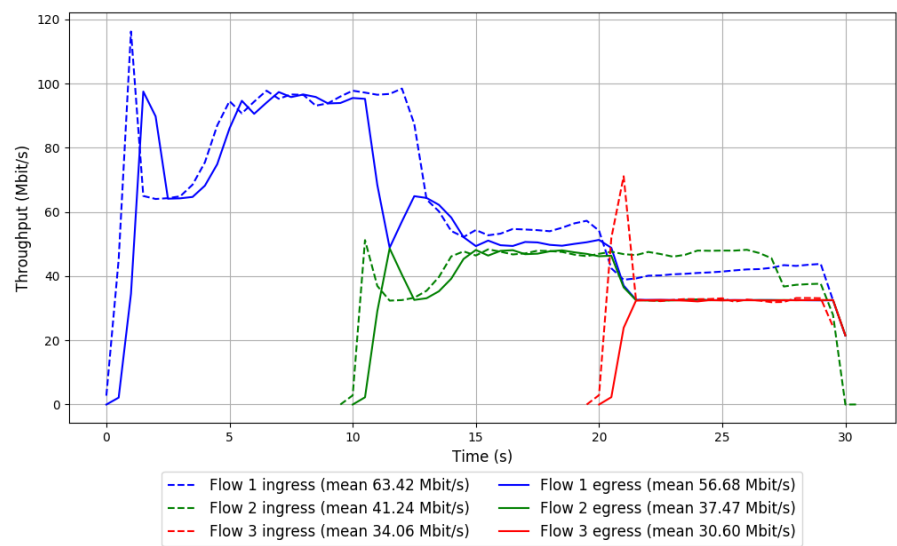
-- Flow 3:

Average throughput: 30.60 Mbit/s

95th percentile per-packet one-way delay: 1005.829 ms

Loss rate: 10.80%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-12-11 16:29:59

End at: 2019-12-11 16:30:29

Local clock offset: -1.853 ms

Remote clock offset: 3.655 ms

Below is generated by plot.py at 2019-12-11 17:38:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.22 Mbit/s

95th percentile per-packet one-way delay: 2187.252 ms

Loss rate: 7.06%

-- Flow 1:

Average throughput: 56.74 Mbit/s

95th percentile per-packet one-way delay: 2204.985 ms

Loss rate: 10.72%

-- Flow 2:

Average throughput: 44.48 Mbit/s

95th percentile per-packet one-way delay: 46.024 ms

Loss rate: 0.42%

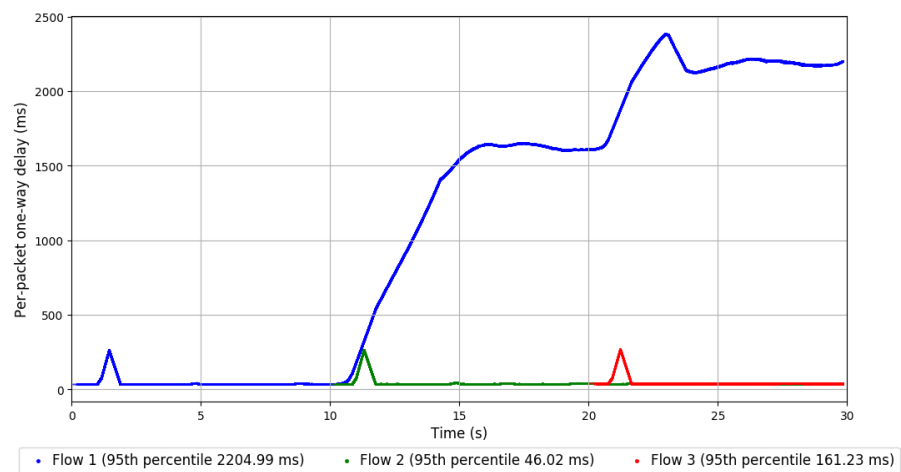
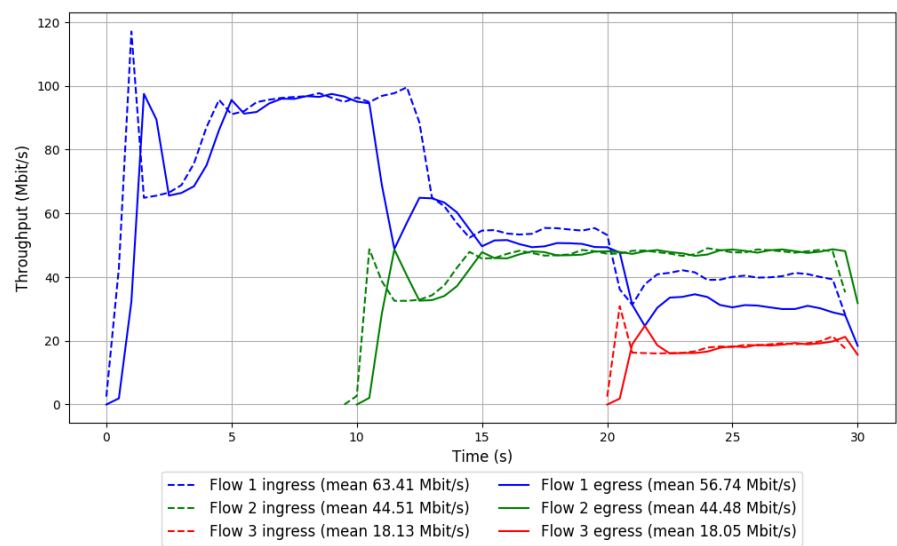
-- Flow 3:

Average throughput: 18.05 Mbit/s

95th percentile per-packet one-way delay: 161.230 ms

Loss rate: 1.18%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-12-11 17:01:40

End at: 2019-12-11 17:02:10

Local clock offset: 1.057 ms

Remote clock offset: 2.096 ms

Below is generated by plot.py at 2019-12-11 17:38:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.26 Mbit/s

95th percentile per-packet one-way delay: 1646.500 ms

Loss rate: 11.57%

-- Flow 1:

Average throughput: 62.56 Mbit/s

95th percentile per-packet one-way delay: 1654.980 ms

Loss rate: 13.48%

-- Flow 2:

Average throughput: 40.97 Mbit/s

95th percentile per-packet one-way delay: 723.153 ms

Loss rate: 6.75%

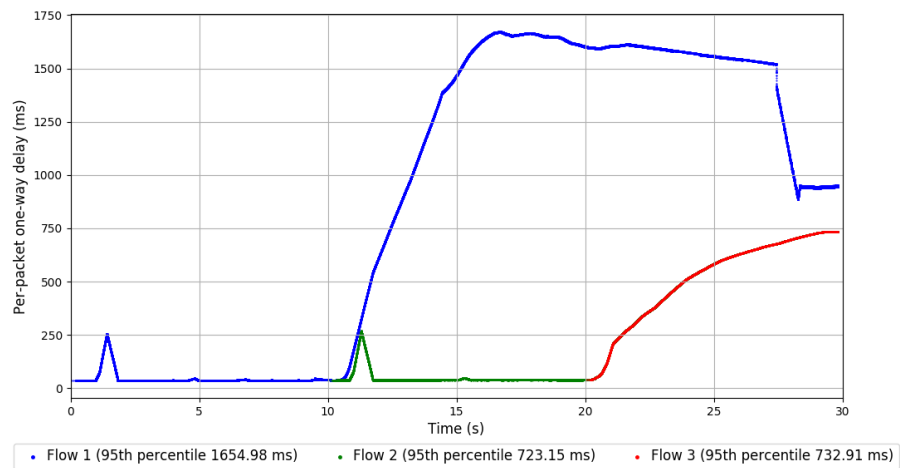
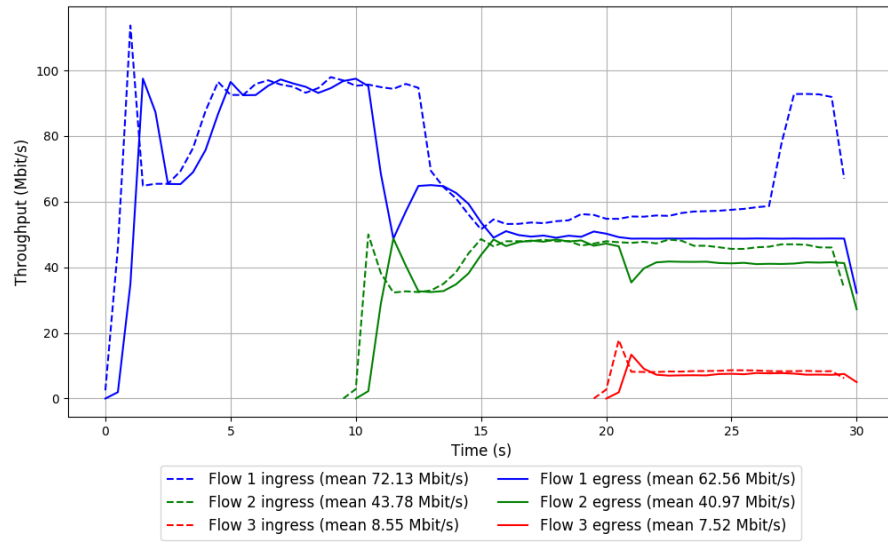
-- Flow 3:

Average throughput: 7.52 Mbit/s

95th percentile per-packet one-way delay: 732.912 ms

Loss rate: 12.64%

Run 5: Report of PCC-Allegro — Data Link

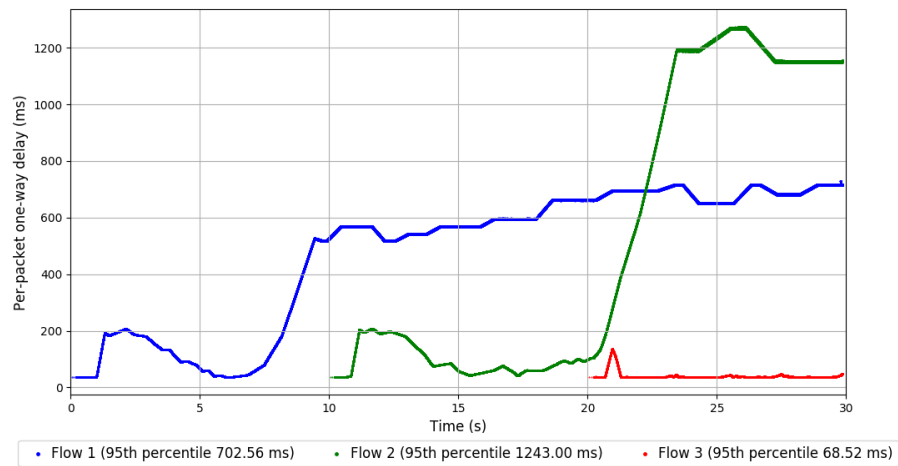
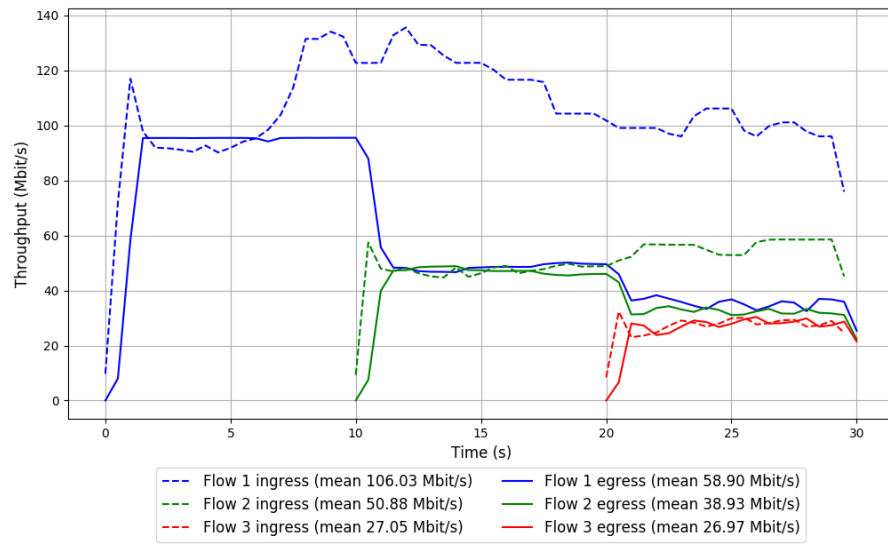


```
Run 1: Statistics of PCC-Expr

Start at: 2019-12-11 14:57:47
End at: 2019-12-11 14:58:17
Local clock offset: 0.957 ms
Remote clock offset: 2.974 ms

# Below is generated by plot.py at 2019-12-11 17:39:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.61 Mbit/s
95th percentile per-packet one-way delay: 1151.620 ms
Loss rate: 37.23%
-- Flow 1:
Average throughput: 58.90 Mbit/s
95th percentile per-packet one-way delay: 702.564 ms
Loss rate: 44.58%
-- Flow 2:
Average throughput: 38.93 Mbit/s
95th percentile per-packet one-way delay: 1242.998 ms
Loss rate: 23.76%
-- Flow 3:
Average throughput: 26.97 Mbit/s
95th percentile per-packet one-way delay: 68.522 ms
Loss rate: 1.02%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-12-11 15:27:19

End at: 2019-12-11 15:27:49

Local clock offset: 1.82 ms

Remote clock offset: 3.797 ms

Below is generated by plot.py at 2019-12-11 17:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 1197.820 ms

Loss rate: 37.77%

-- Flow 1:

Average throughput: 58.93 Mbit/s

95th percentile per-packet one-way delay: 694.525 ms

Loss rate: 44.70%

-- Flow 2:

Average throughput: 38.62 Mbit/s

95th percentile per-packet one-way delay: 1240.272 ms

Loss rate: 25.98%

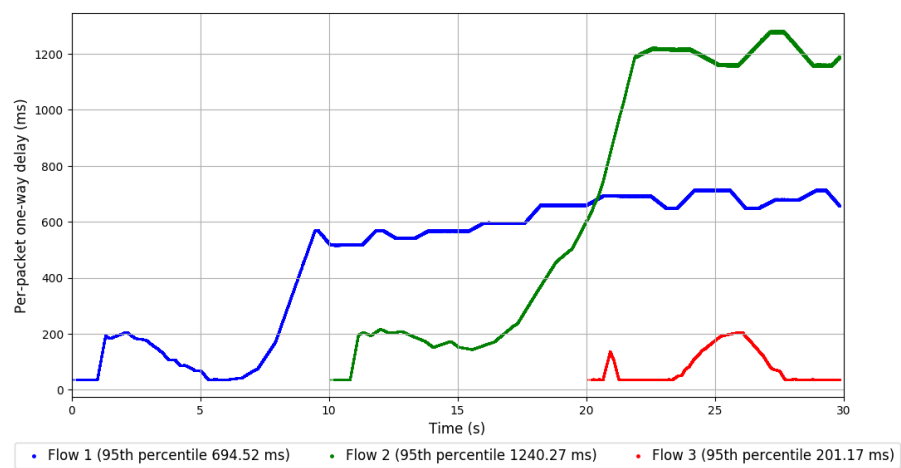
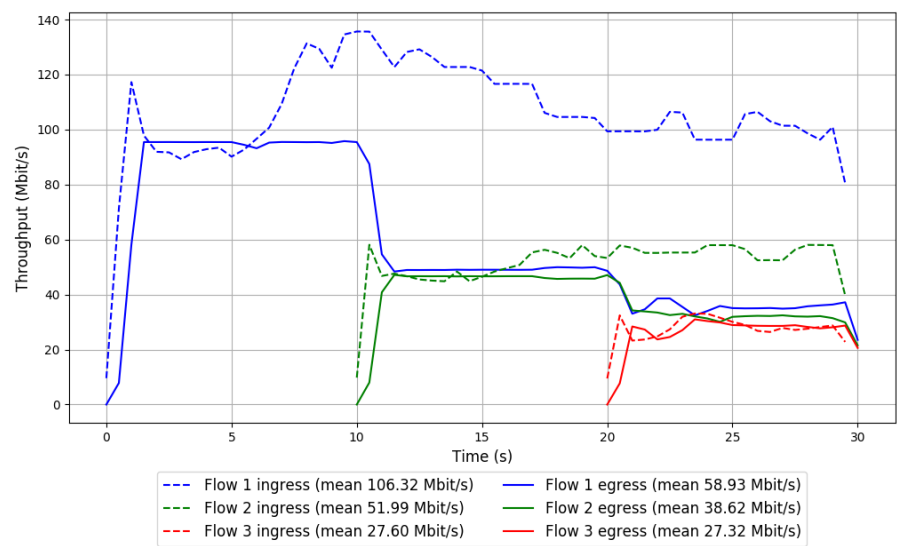
-- Flow 3:

Average throughput: 27.32 Mbit/s

95th percentile per-packet one-way delay: 201.172 ms

Loss rate: 1.75%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-12-11 15:57:56

End at: 2019-12-11 15:58:26

Local clock offset: 1.021 ms

Remote clock offset: 4.038 ms

Below is generated by plot.py at 2019-12-11 17:39:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.55 Mbit/s

95th percentile per-packet one-way delay: 1076.562 ms

Loss rate: 32.49%

-- Flow 1:

Average throughput: 58.81 Mbit/s

95th percentile per-packet one-way delay: 871.004 ms

Loss rate: 38.21%

-- Flow 2:

Average throughput: 38.20 Mbit/s

95th percentile per-packet one-way delay: 1156.693 ms

Loss rate: 24.24%

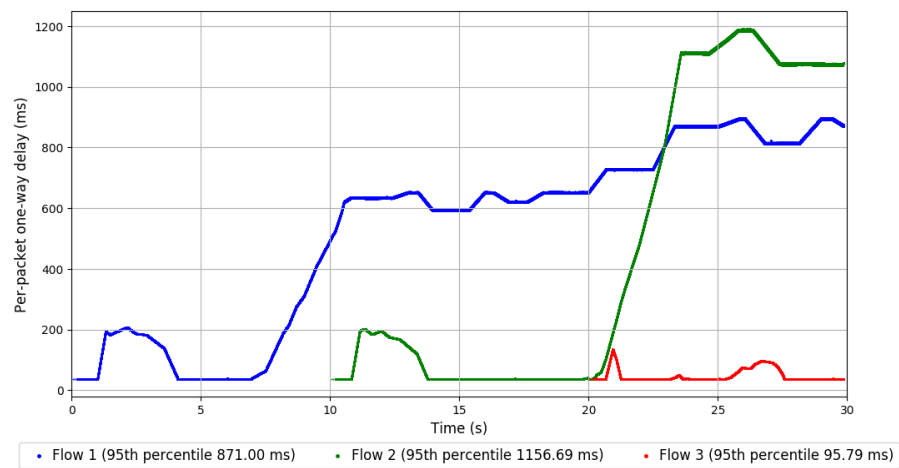
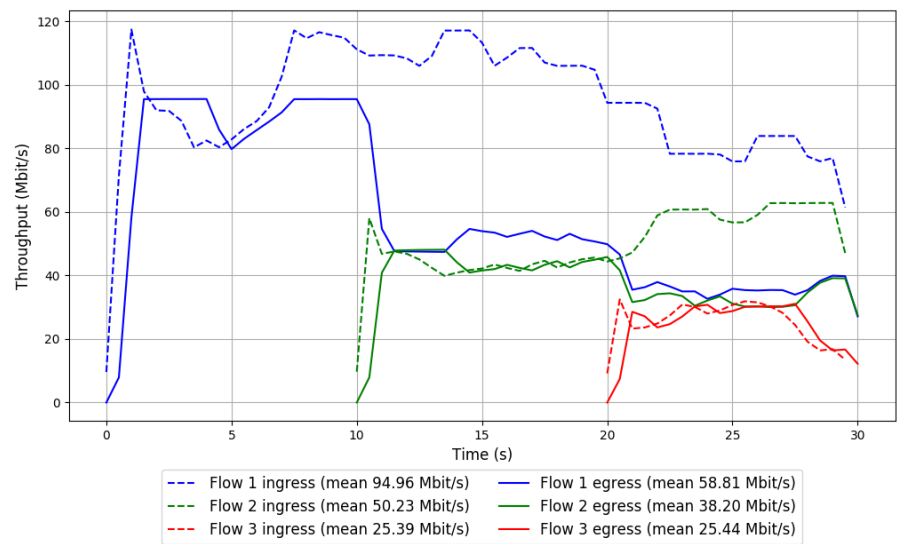
-- Flow 3:

Average throughput: 25.44 Mbit/s

95th percentile per-packet one-way delay: 95.790 ms

Loss rate: 0.56%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-12-11 16:28:36

End at: 2019-12-11 16:29:06

Local clock offset: -1.785 ms

Remote clock offset: 3.632 ms

Below is generated by plot.py at 2019-12-11 17:39:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 1063.510 ms

Loss rate: 31.33%

-- Flow 1:

Average throughput: 62.20 Mbit/s

95th percentile per-packet one-way delay: 1104.704 ms

Loss rate: 30.97%

-- Flow 2:

Average throughput: 36.47 Mbit/s

95th percentile per-packet one-way delay: 1063.037 ms

Loss rate: 36.60%

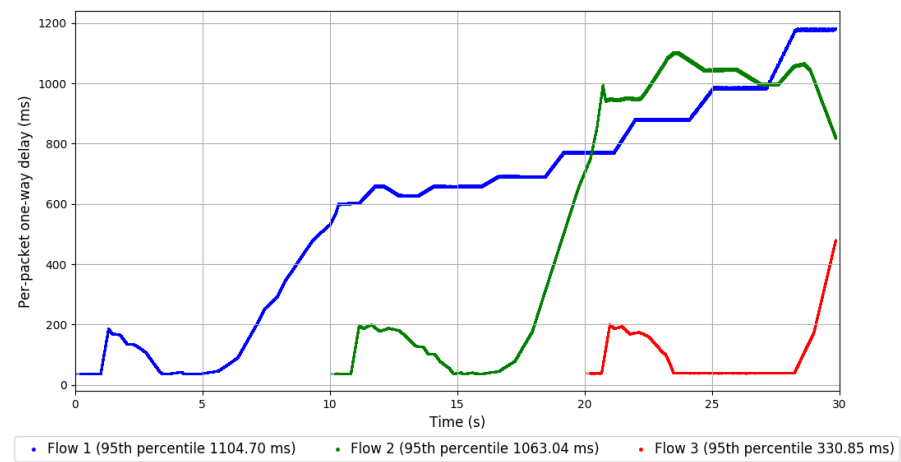
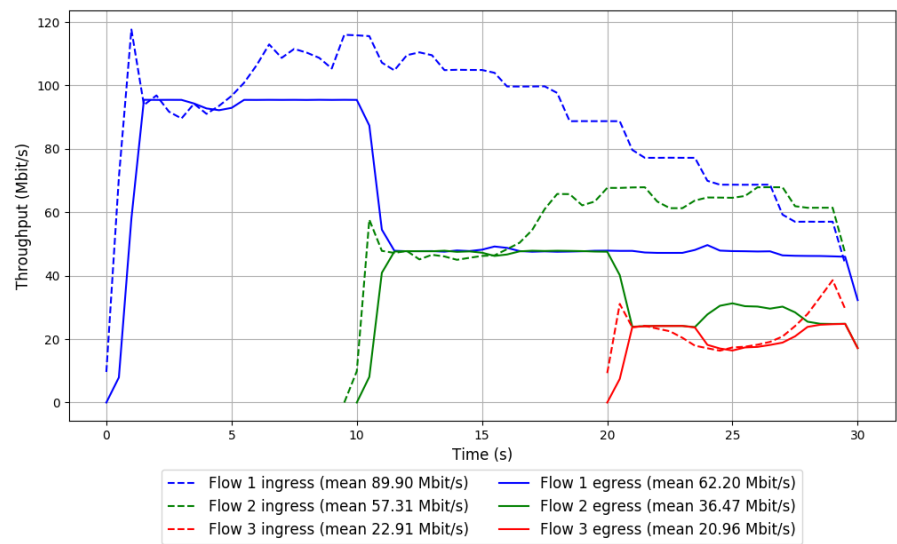
-- Flow 3:

Average throughput: 20.96 Mbit/s

95th percentile per-packet one-way delay: 330.849 ms

Loss rate: 9.16%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-12-11 17:00:00

End at: 2019-12-11 17:00:30

Local clock offset: 0.976 ms

Remote clock offset: 2.131 ms

Below is generated by plot.py at 2019-12-11 17:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.57 Mbit/s

95th percentile per-packet one-way delay: 976.591 ms

Loss rate: 36.14%

-- Flow 1:

Average throughput: 57.94 Mbit/s

95th percentile per-packet one-way delay: 867.781 ms

Loss rate: 39.37%

-- Flow 2:

Average throughput: 38.11 Mbit/s

95th percentile per-packet one-way delay: 1020.844 ms

Loss rate: 34.76%

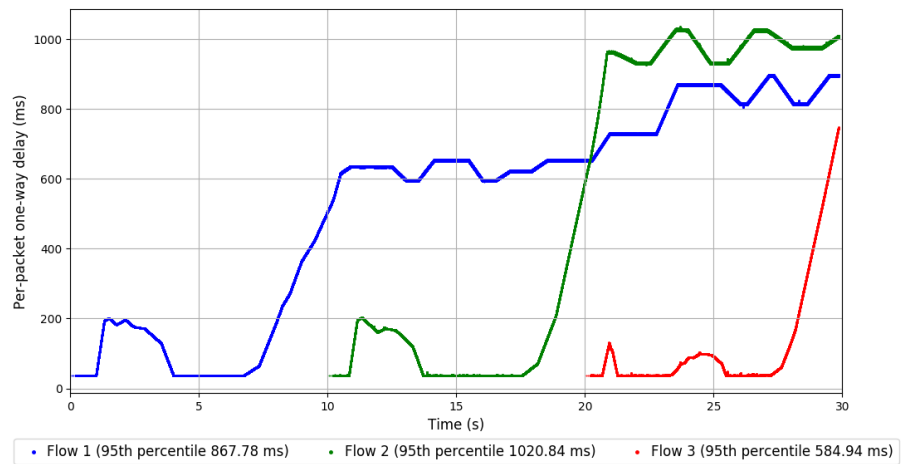
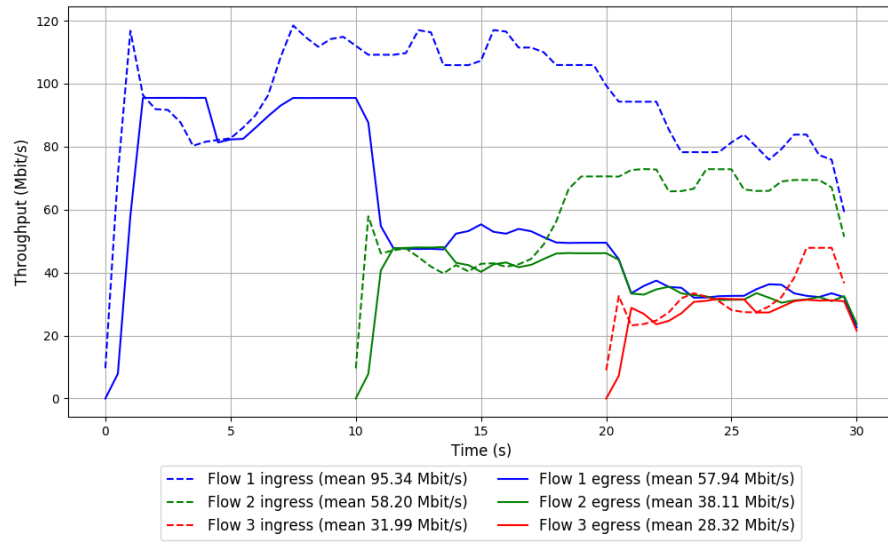
-- Flow 3:

Average throughput: 28.32 Mbit/s

95th percentile per-packet one-way delay: 584.939 ms

Loss rate: 12.09%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-12-11 15:11:20

End at: 2019-12-11 15:11:50

Local clock offset: 1.483 ms

Remote clock offset: 3.339 ms

Below is generated by plot.py at 2019-12-11 17:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.19 Mbit/s

95th percentile per-packet one-way delay: 104.468 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 48.98 Mbit/s

95th percentile per-packet one-way delay: 90.881 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 32.47 Mbit/s

95th percentile per-packet one-way delay: 117.975 ms

Loss rate: 0.38%

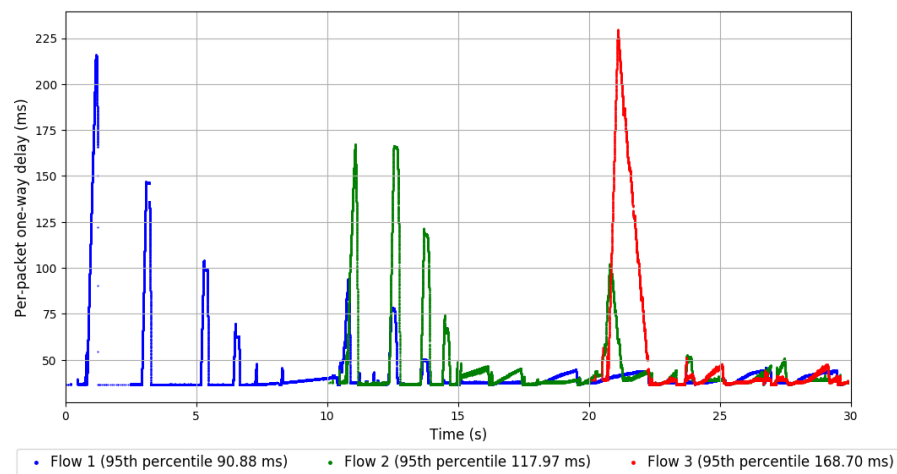
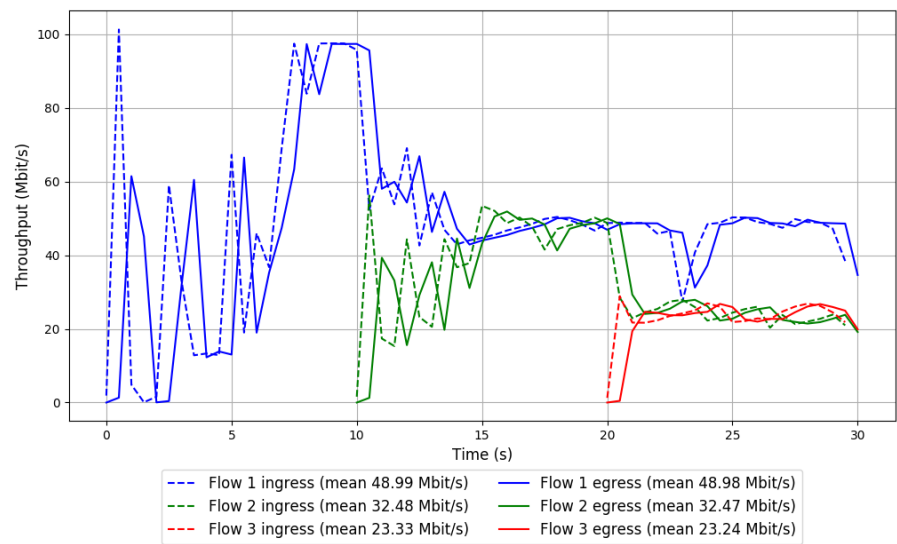
-- Flow 3:

Average throughput: 23.24 Mbit/s

95th percentile per-packet one-way delay: 168.697 ms

Loss rate: 1.15%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-12-11 15:41:28

End at: 2019-12-11 15:41:58

Local clock offset: 1.724 ms

Remote clock offset: 3.597 ms

Below is generated by plot.py at 2019-12-11 17:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.27 Mbit/s

95th percentile per-packet one-way delay: 98.988 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 41.49 Mbit/s

95th percentile per-packet one-way delay: 98.278 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 43.66 Mbit/s

95th percentile per-packet one-way delay: 96.708 ms

Loss rate: 0.46%

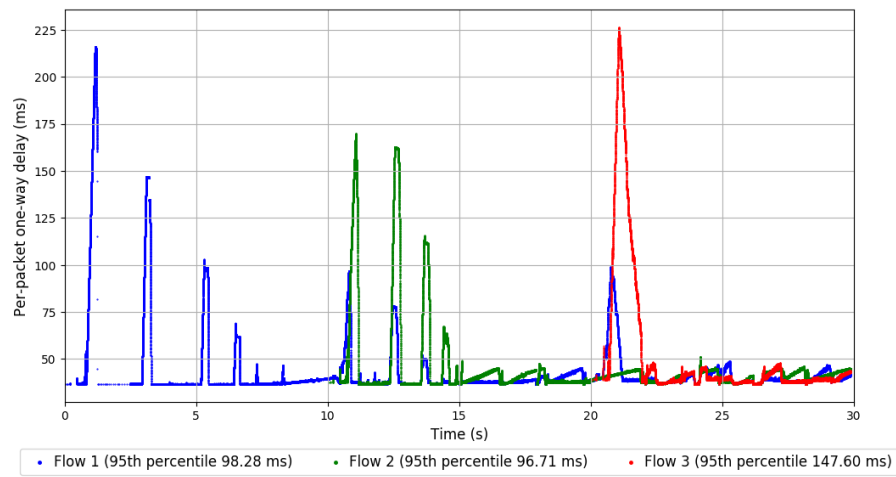
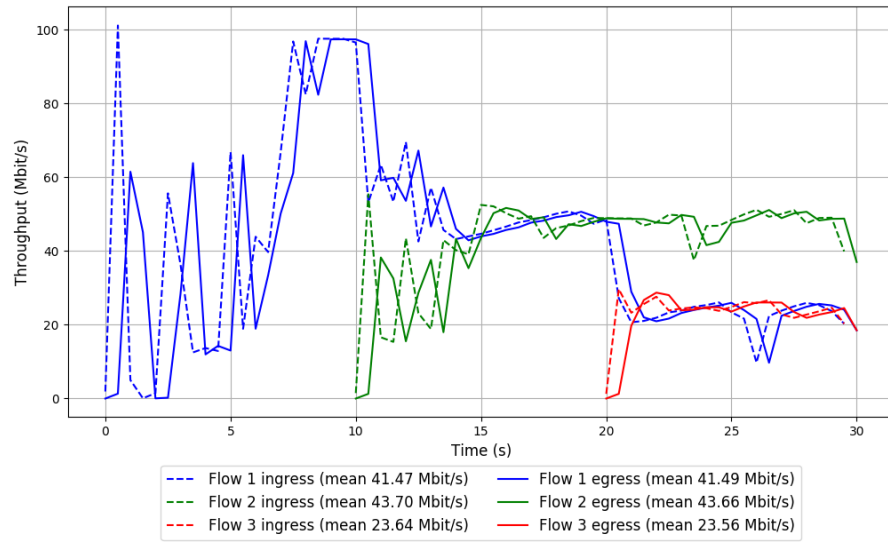
-- Flow 3:

Average throughput: 23.56 Mbit/s

95th percentile per-packet one-way delay: 147.600 ms

Loss rate: 1.06%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-12-11 16:11:41

End at: 2019-12-11 16:12:11

Local clock offset: 0.149 ms

Remote clock offset: 3.59 ms

Below is generated by plot.py at 2019-12-11 17:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.92 Mbit/s

95th percentile per-packet one-way delay: 99.358 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 44.59 Mbit/s

95th percentile per-packet one-way delay: 92.176 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 35.22 Mbit/s

95th percentile per-packet one-way delay: 103.084 ms

Loss rate: 0.53%

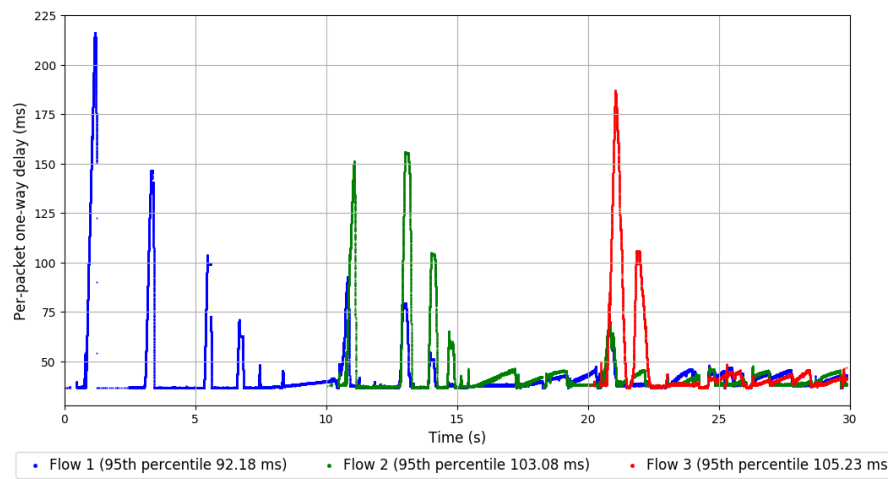
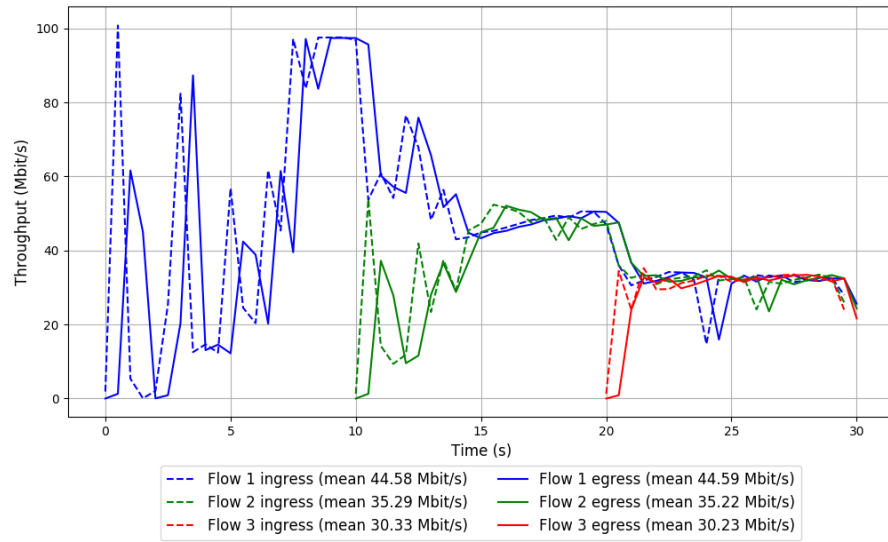
-- Flow 3:

Average throughput: 30.23 Mbit/s

95th percentile per-packet one-way delay: 105.231 ms

Loss rate: 1.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-12-11 16:42:30

End at: 2019-12-11 16:43:00

Local clock offset: -1.019 ms

Remote clock offset: 2.861 ms

Below is generated by plot.py at 2019-12-11 17:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.35 Mbit/s

95th percentile per-packet one-way delay: 99.949 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 41.87 Mbit/s

95th percentile per-packet one-way delay: 97.889 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 43.06 Mbit/s

95th percentile per-packet one-way delay: 93.938 ms

Loss rate: 0.45%

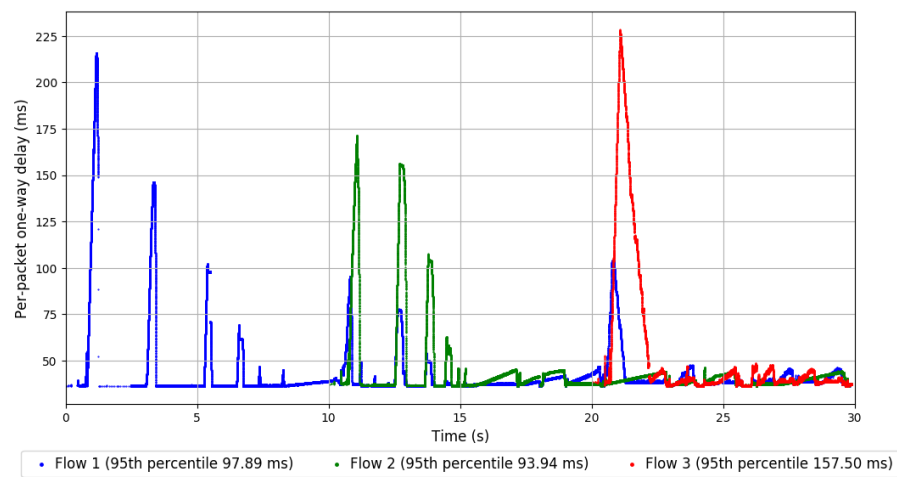
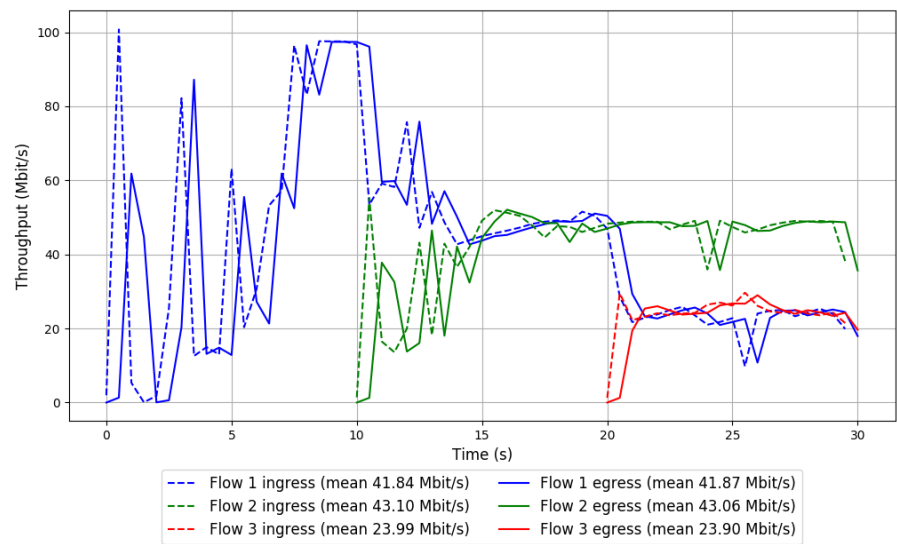
-- Flow 3:

Average throughput: 23.90 Mbit/s

95th percentile per-packet one-way delay: 157.501 ms

Loss rate: 1.11%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-12-11 17:14:56

End at: 2019-12-11 17:15:26

Local clock offset: 1.134 ms

Remote clock offset: 2.423 ms

Below is generated by plot.py at 2019-12-11 17:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.08 Mbit/s

95th percentile per-packet one-way delay: 98.072 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 43.92 Mbit/s

95th percentile per-packet one-way delay: 95.047 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 36.02 Mbit/s

95th percentile per-packet one-way delay: 112.074 ms

Loss rate: 0.42%

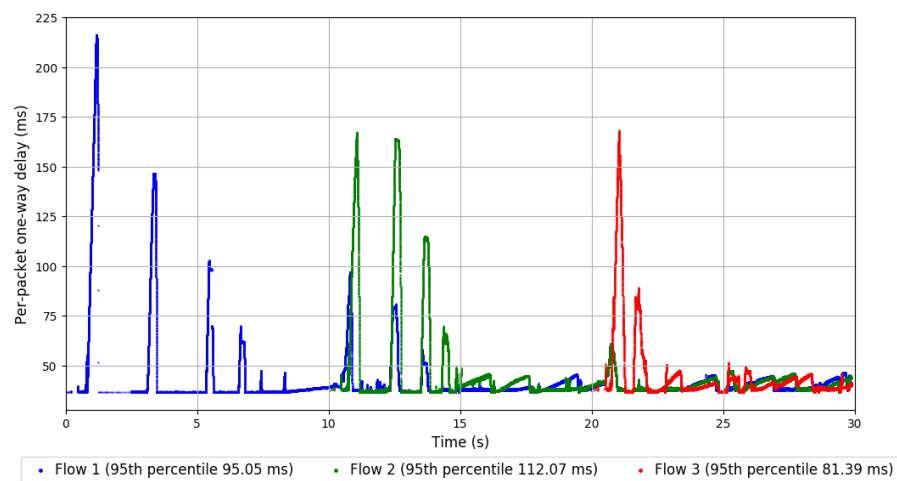
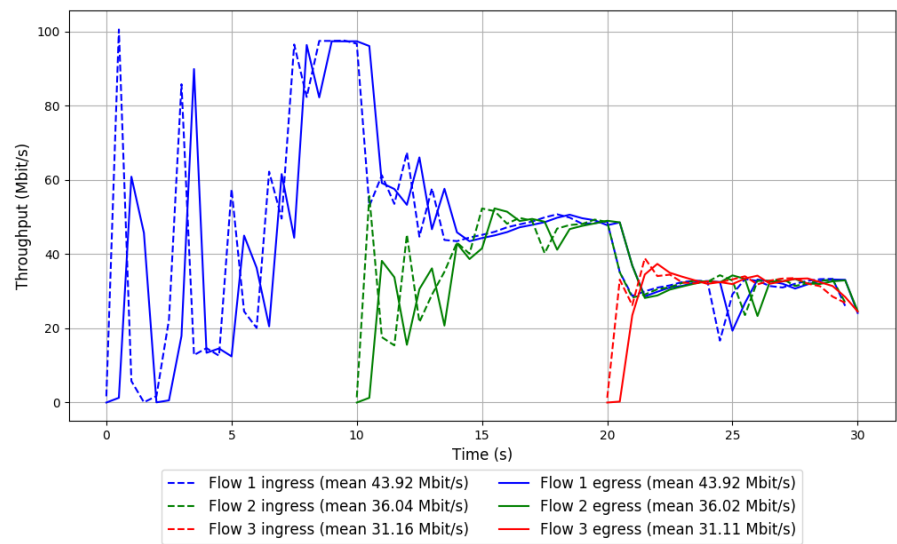
-- Flow 3:

Average throughput: 31.11 Mbit/s

95th percentile per-packet one-way delay: 81.388 ms

Loss rate: 0.89%

Run 5: Report of QUIC Cubic — Data Link

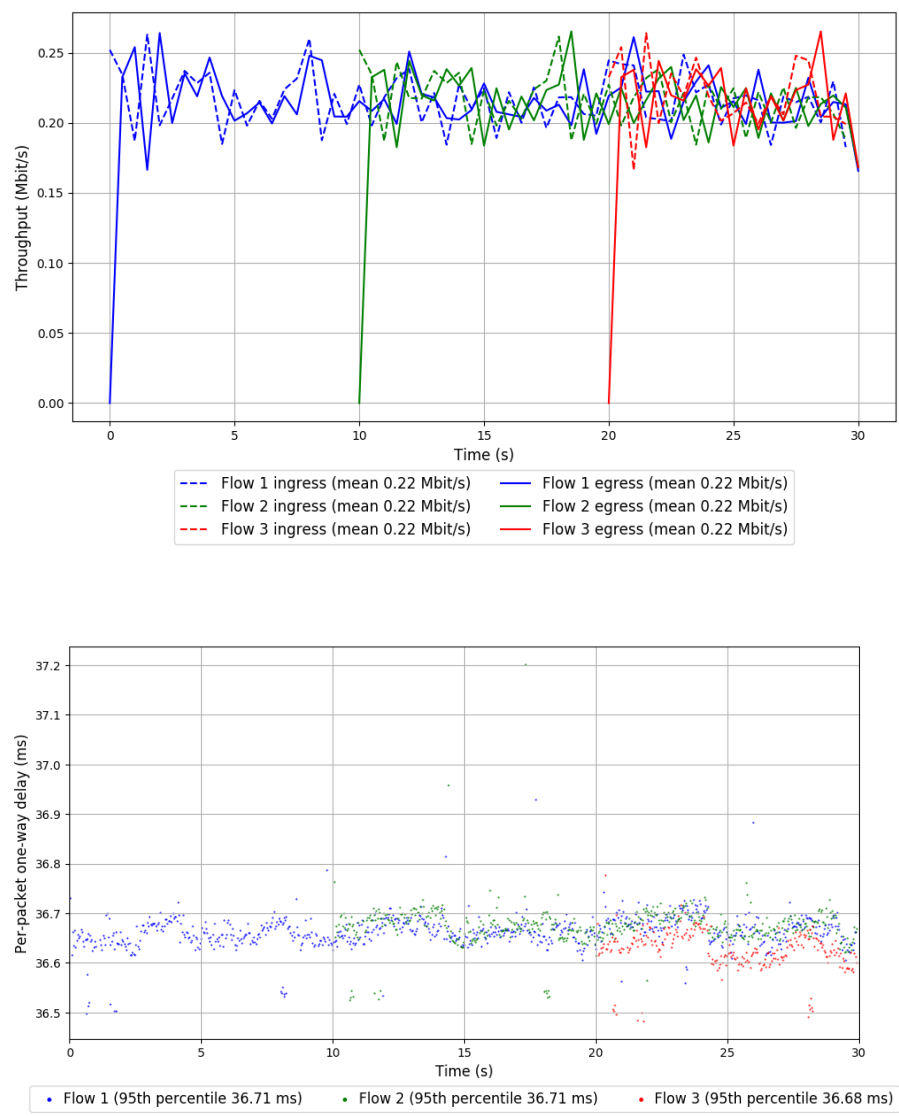


```
Run 1: Statistics of SReAM

Start at: 2019-12-11 15:02:45
End at: 2019-12-11 15:03:15
Local clock offset: 1.266 ms
Remote clock offset: 3.095 ms

# Below is generated by plot.py at 2019-12-11 17:40:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 36.709 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.706 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.713 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.677 ms
Loss rate: 0.70%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2019-12-11 15:32:40

End at: 2019-12-11 15:33:10

Local clock offset: 1.933 ms

Remote clock offset: 3.793 ms

Below is generated by plot.py at 2019-12-11 17:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 36.714 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.679 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.658 ms

Loss rate: 0.39%

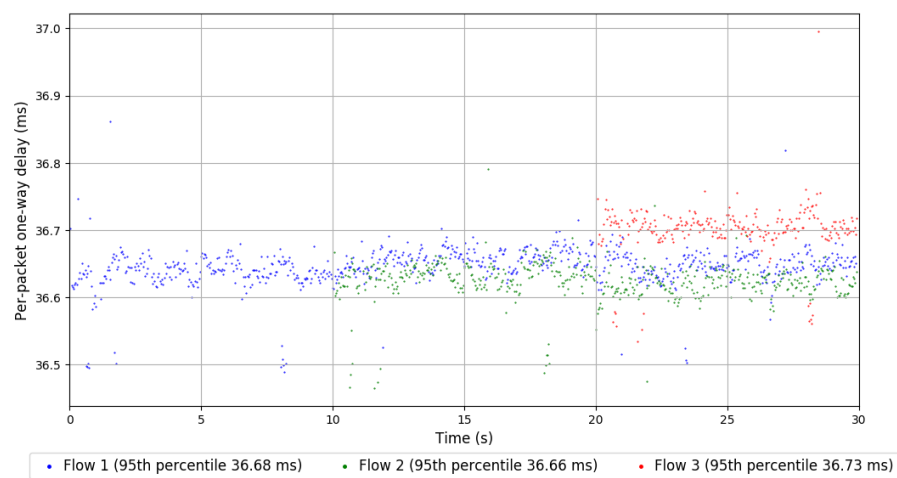
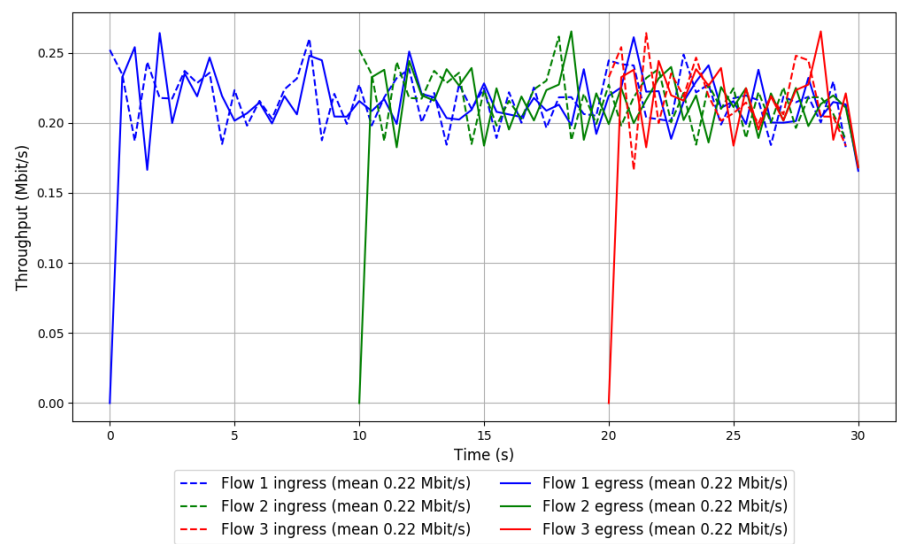
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.734 ms

Loss rate: 0.35%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2019-12-11 16:03:03

End at: 2019-12-11 16:03:33

Local clock offset: 0.985 ms

Remote clock offset: 3.977 ms

Below is generated by plot.py at 2019-12-11 17:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 36.836 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.844 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.729 ms

Loss rate: 0.39%

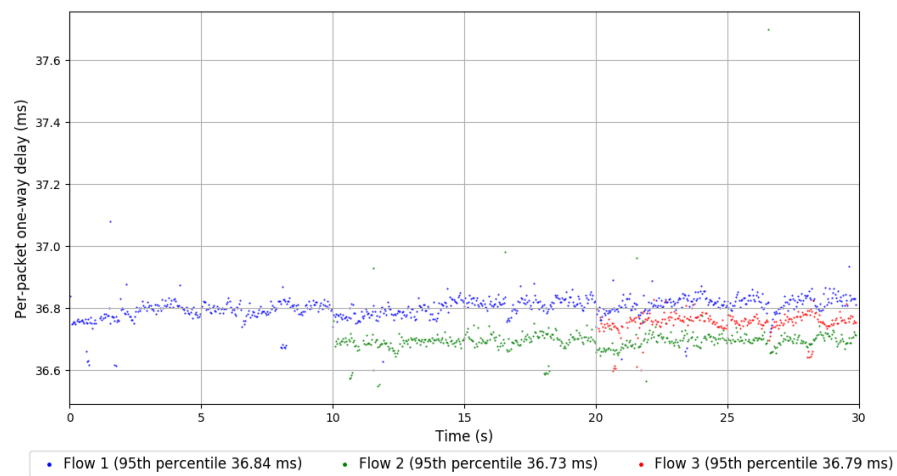
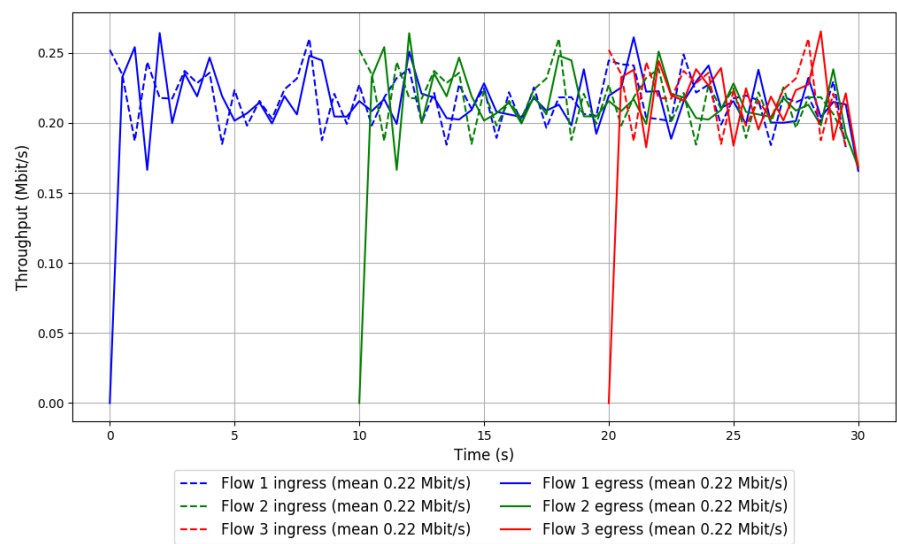
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.789 ms

Loss rate: 0.70%

Run 3: Report of SReAM — Data Link

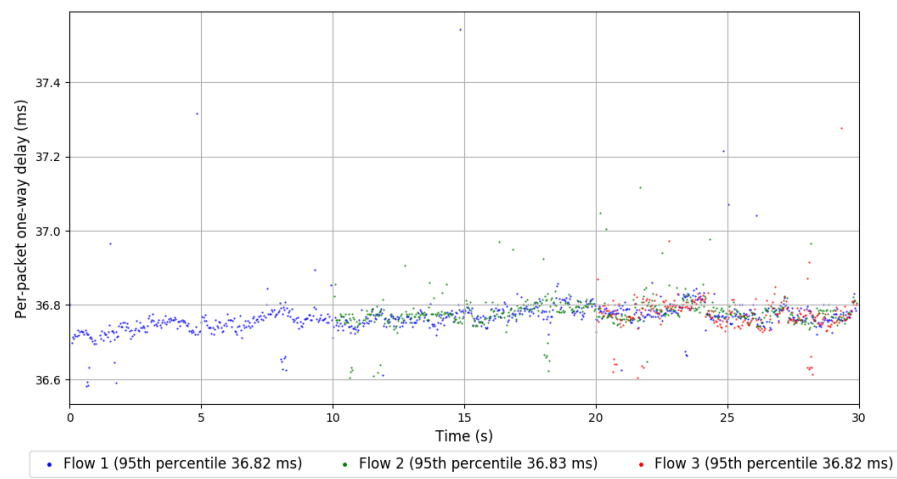
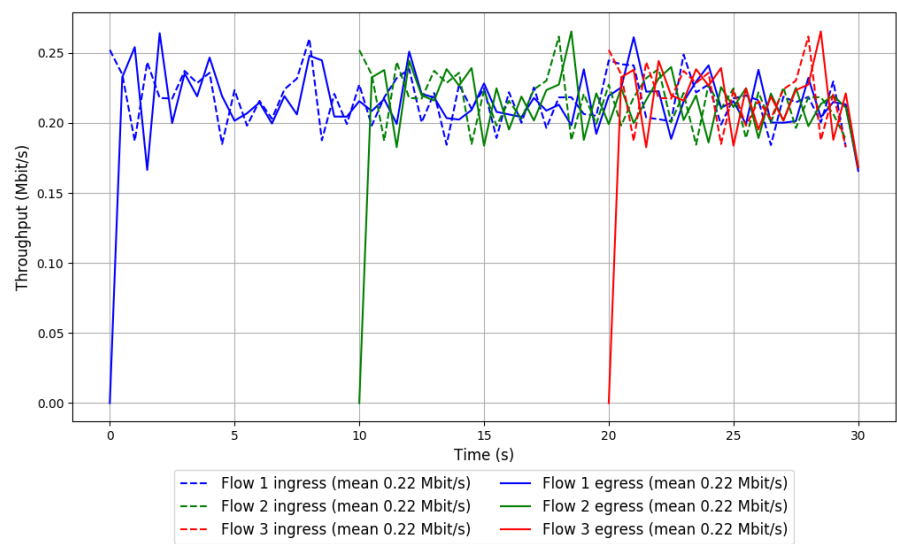


Run 4: Statistics of SReAM

Start at: 2019-12-11 16:33:45
End at: 2019-12-11 16:34:15
Local clock offset: -2.018 ms
Remote clock offset: 3.663 ms

Below is generated by plot.py at 2019-12-11 17:40:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 36.821 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.817 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.826 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.822 ms
Loss rate: 0.70%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2019-12-11 17:05:34

End at: 2019-12-11 17:06:04

Local clock offset: 1.171 ms

Remote clock offset: 2.032 ms

Below is generated by plot.py at 2019-12-11 17:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 36.771 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.797 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.693 ms

Loss rate: 0.39%

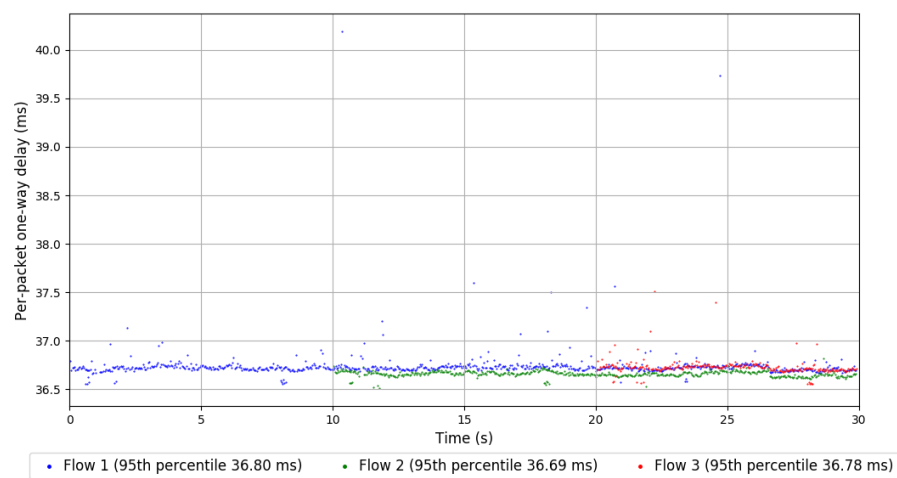
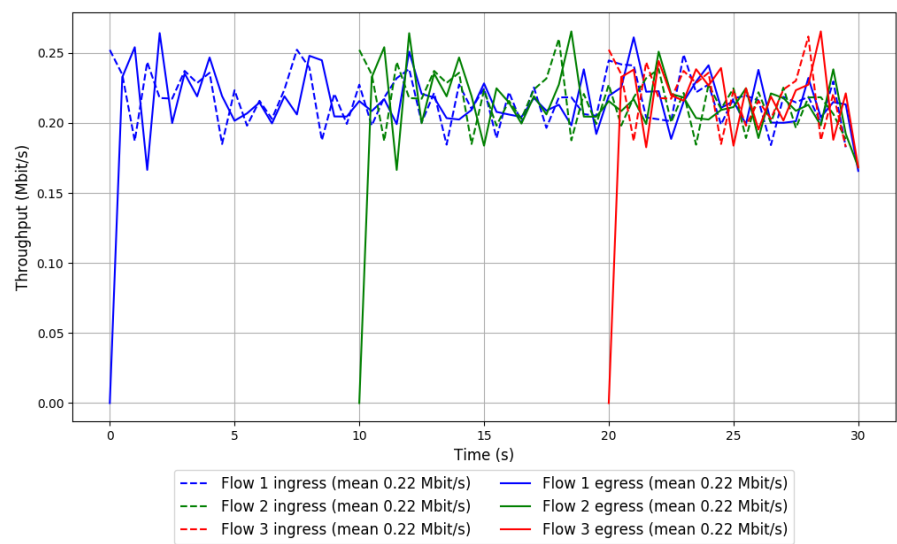
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.785 ms

Loss rate: 0.70%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-12-11 15:07:37

End at: 2019-12-11 15:08:07

Local clock offset: 1.413 ms

Remote clock offset: 3.222 ms

Below is generated by plot.py at 2019-12-11 17:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.15 Mbit/s

95th percentile per-packet one-way delay: 42.040 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 42.101 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 11.75 Mbit/s

95th percentile per-packet one-way delay: 41.679 ms

Loss rate: 0.41%

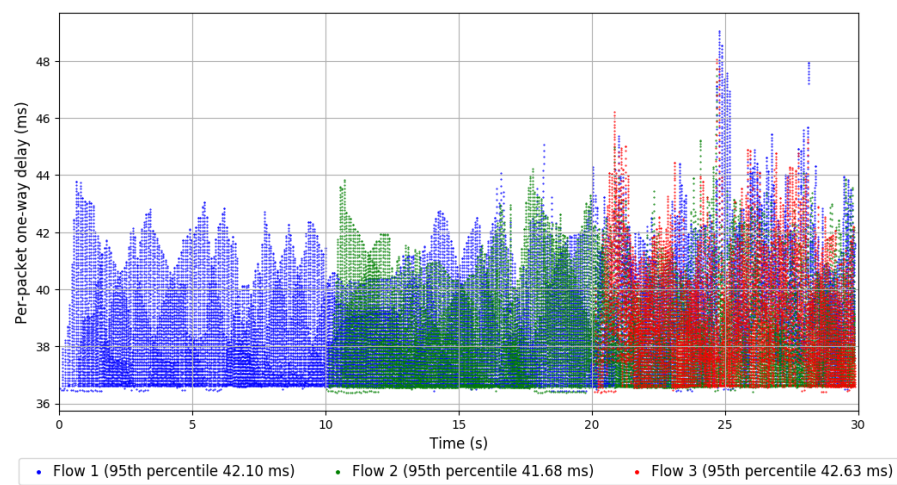
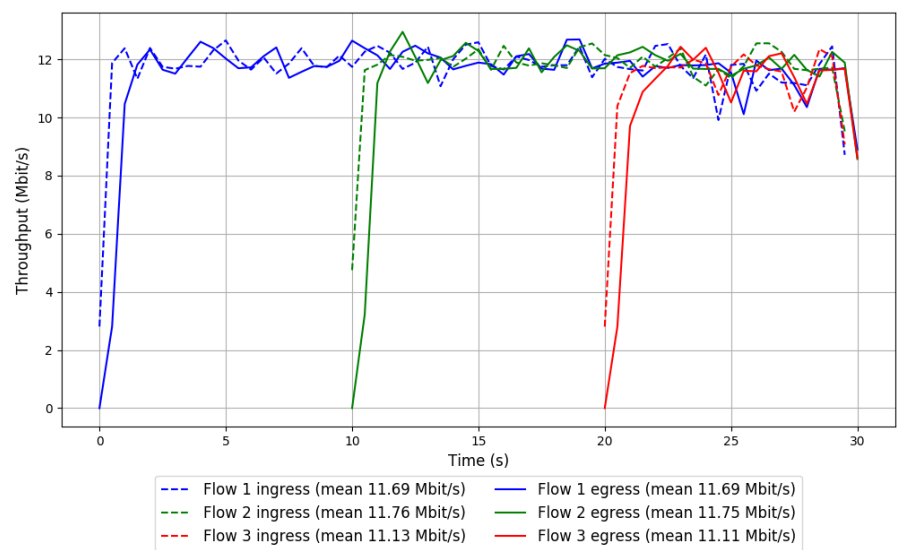
-- Flow 3:

Average throughput: 11.11 Mbit/s

95th percentile per-packet one-way delay: 42.635 ms

Loss rate: 0.77%

Run 1: Report of Sprout — Data Link

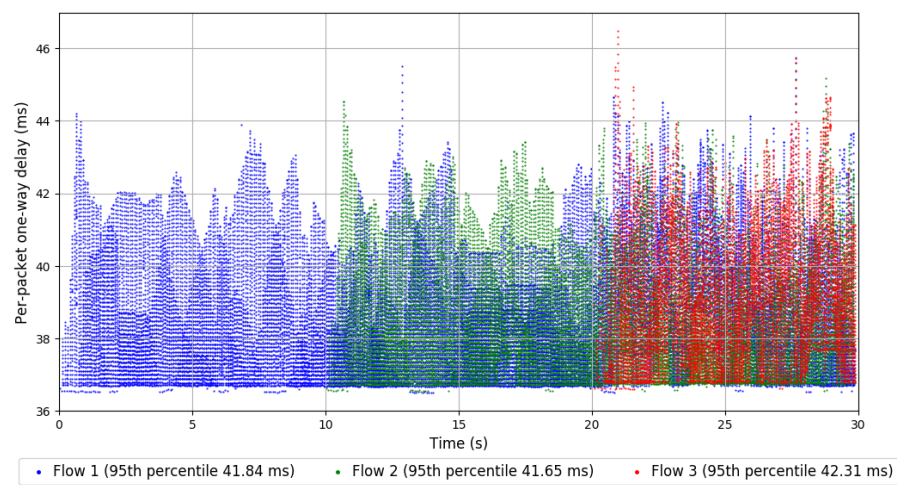
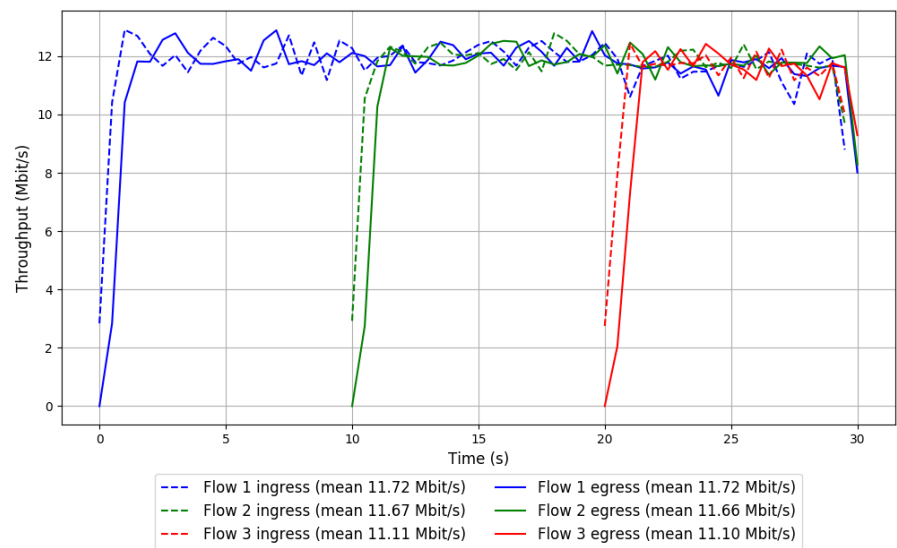


Run 2: Statistics of Sprout

Start at: 2019-12-11 15:37:32
End at: 2019-12-11 15:38:02
Local clock offset: 2.061 ms
Remote clock offset: 3.652 ms

Below is generated by plot.py at 2019-12-11 17:40:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.12 Mbit/s
95th percentile per-packet one-way delay: 41.870 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 41.835 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 41.649 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 11.10 Mbit/s
95th percentile per-packet one-way delay: 42.310 ms
Loss rate: 0.87%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-12-11 16:07:55

End at: 2019-12-11 16:08:25

Local clock offset: 0.969 ms

Remote clock offset: 3.796 ms

Below is generated by plot.py at 2019-12-11 17:40:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.24 Mbit/s

95th percentile per-packet one-way delay: 41.599 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 11.83 Mbit/s

95th percentile per-packet one-way delay: 41.501 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 11.56 Mbit/s

95th percentile per-packet one-way delay: 41.796 ms

Loss rate: 0.39%

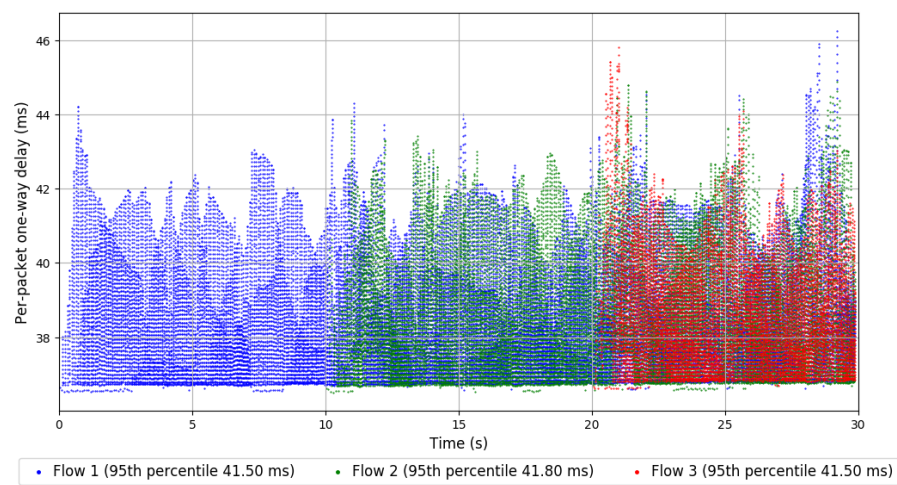
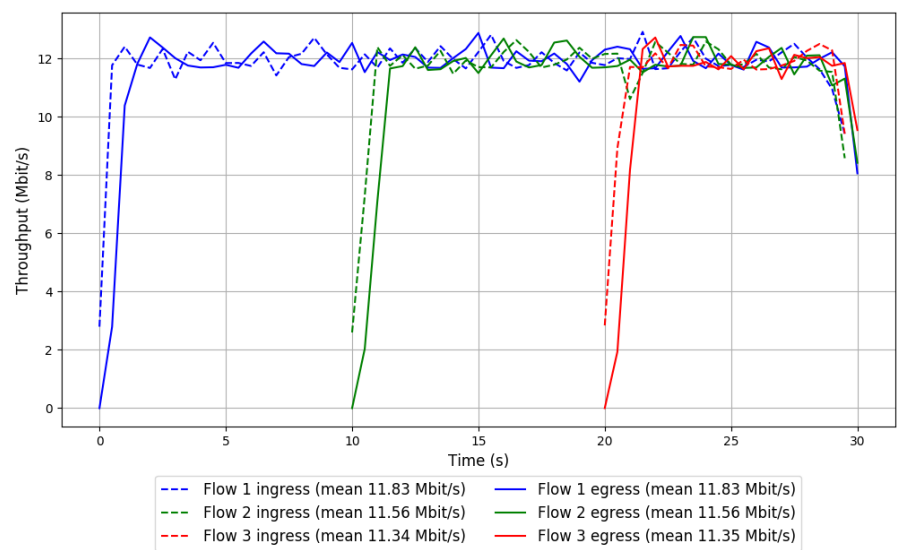
-- Flow 3:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 41.501 ms

Loss rate: 0.67%

Run 3: Report of Sprout — Data Link

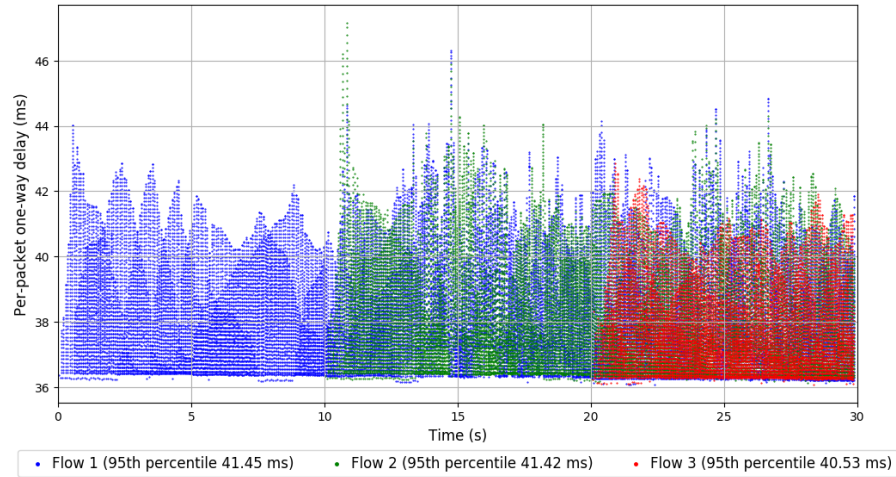
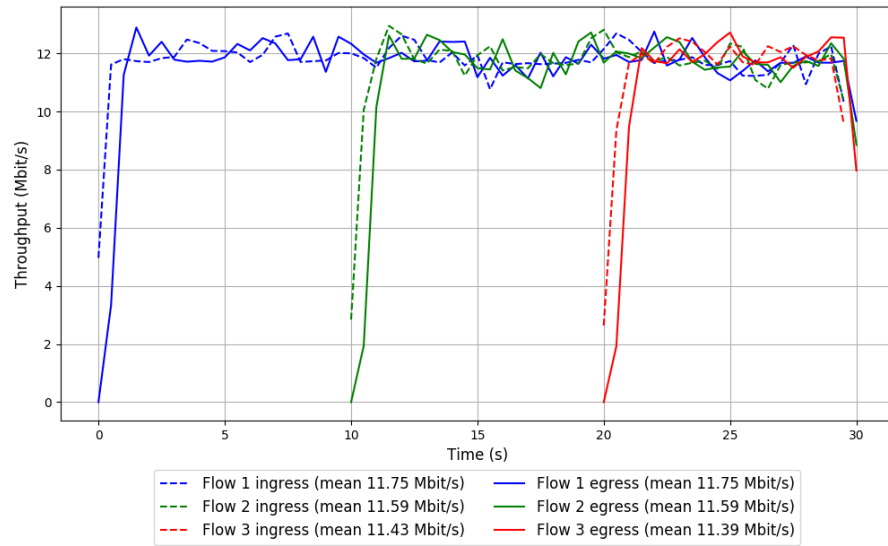


Run 4: Statistics of Sprout

Start at: 2019-12-11 16:38:48
End at: 2019-12-11 16:39:18
Local clock offset: -2.128 ms
Remote clock offset: 3.431 ms

```
# Below is generated by plot.py at 2019-12-11 17:40:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 41.321 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 41.449 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 41.417 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 40.528 ms
Loss rate: 0.78%
```

Run 4: Report of Sprout — Data Link

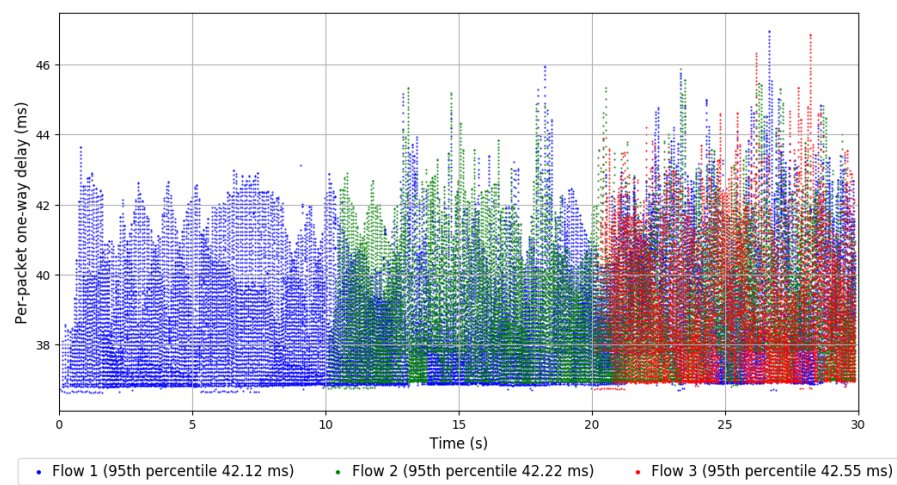
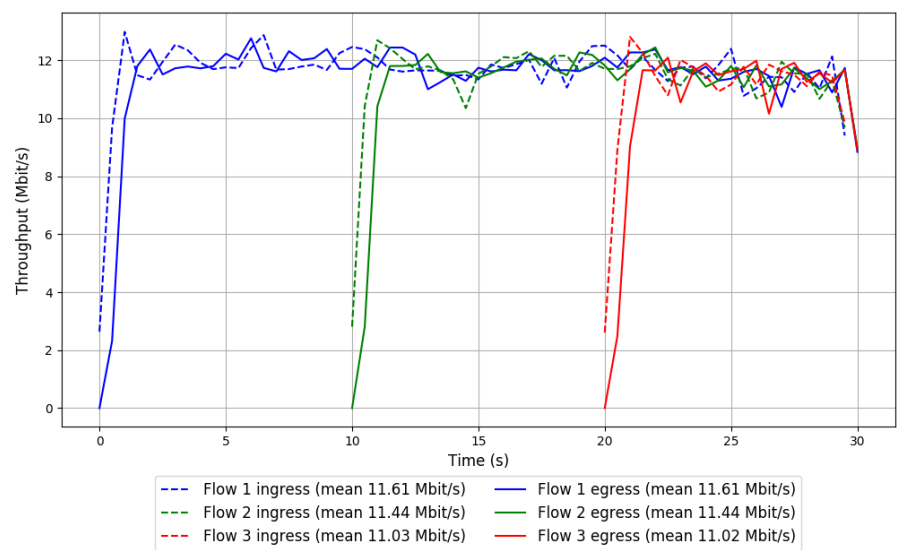


Run 5: Statistics of Sprout

Start at: 2019-12-11 17:11:01
End at: 2019-12-11 17:11:31
Local clock offset: 1.186 ms
Remote clock offset: 1.998 ms

Below is generated by plot.py at 2019-12-11 17:40:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.83 Mbit/s
95th percentile per-packet one-way delay: 42.218 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 42.122 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 11.44 Mbit/s
95th percentile per-packet one-way delay: 42.215 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 42.546 ms
Loss rate: 0.89%

Run 5: Report of Sprout — Data Link

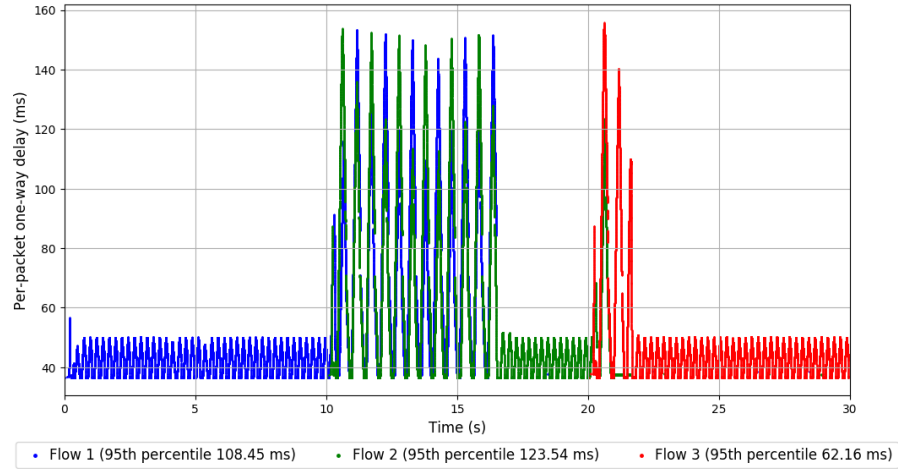
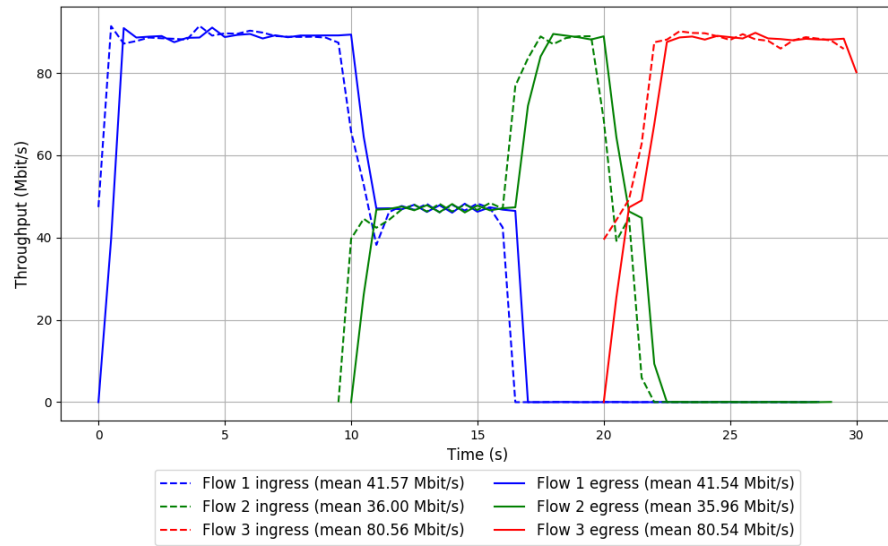


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-12-11 15:10:03
End at: 2019-12-11 15:10:33
Local clock offset: 1.475 ms
Remote clock offset: 3.274 ms

# Below is generated by plot.py at 2019-12-11 17:42:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.81 Mbit/s
95th percentile per-packet one-way delay: 109.755 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 41.54 Mbit/s
95th percentile per-packet one-way delay: 108.450 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 35.96 Mbit/s
95th percentile per-packet one-way delay: 123.544 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 80.54 Mbit/s
95th percentile per-packet one-way delay: 62.159 ms
Loss rate: 0.75%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-12-11 15:40:09

End at: 2019-12-11 15:40:39

Local clock offset: 1.844 ms

Remote clock offset: 3.617 ms

Below is generated by plot.py at 2019-12-11 17:42:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.93 Mbit/s

95th percentile per-packet one-way delay: 99.110 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 38.61 Mbit/s

95th percentile per-packet one-way delay: 101.726 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 28.20 Mbit/s

95th percentile per-packet one-way delay: 124.121 ms

Loss rate: 0.04%

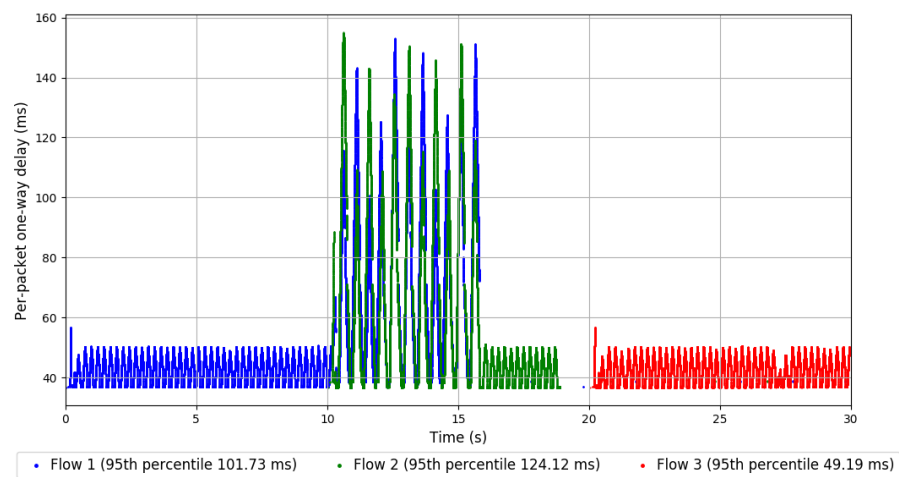
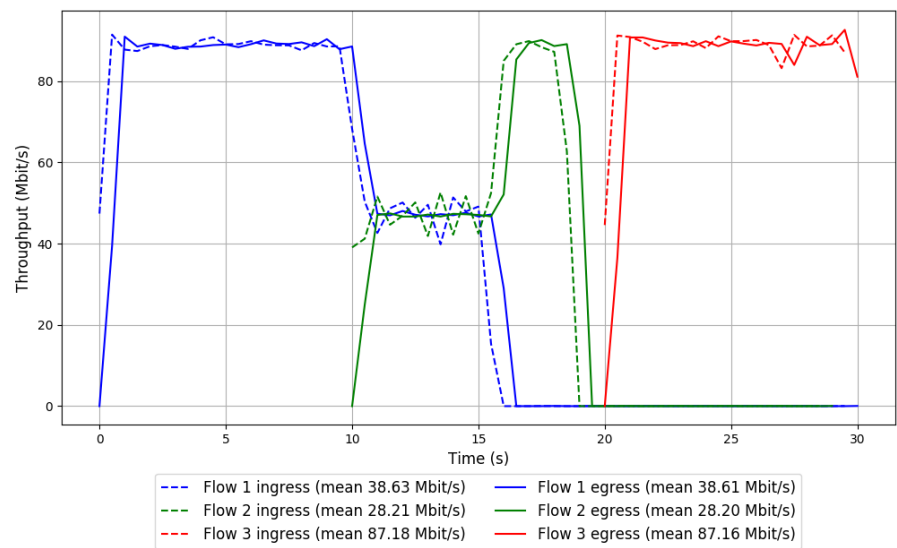
-- Flow 3:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 49.194 ms

Loss rate: 0.74%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-12-11 16:10:22

End at: 2019-12-11 16:10:52

Local clock offset: 0.445 ms

Remote clock offset: 3.614 ms

Below is generated by plot.py at 2019-12-11 17:42:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.05 Mbit/s

95th percentile per-packet one-way delay: 100.041 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 41.61 Mbit/s

95th percentile per-packet one-way delay: 100.569 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 35.31 Mbit/s

95th percentile per-packet one-way delay: 119.260 ms

Loss rate: 0.07%

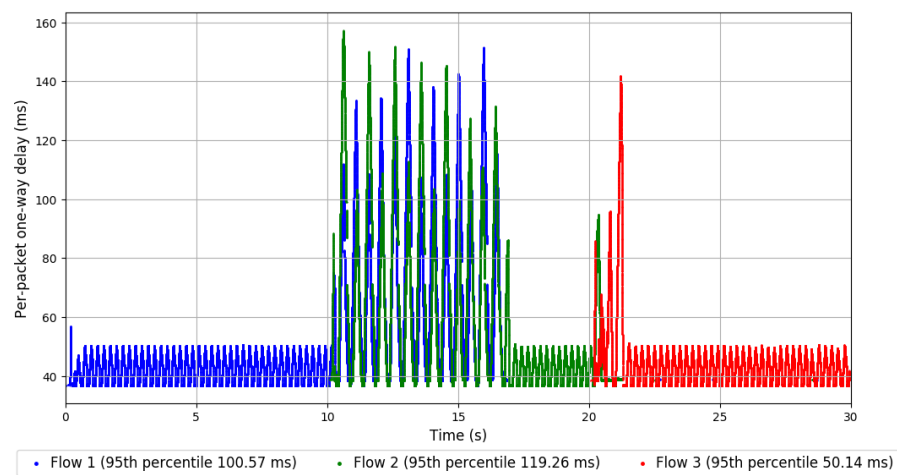
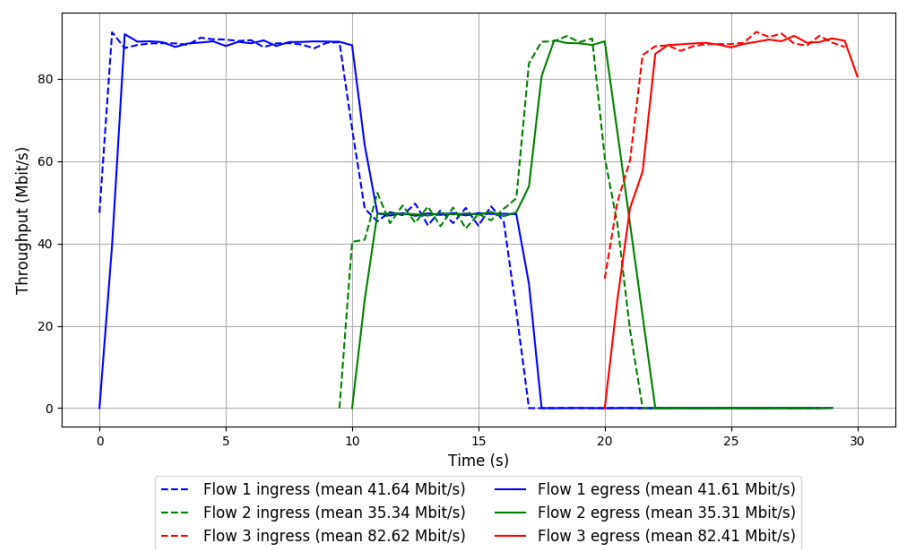
-- Flow 3:

Average throughput: 82.41 Mbit/s

95th percentile per-packet one-way delay: 50.142 ms

Loss rate: 0.98%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-12-11 16:41:13

End at: 2019-12-11 16:41:43

Local clock offset: -1.36 ms

Remote clock offset: 3.029 ms

Below is generated by plot.py at 2019-12-11 17:42:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.66 Mbit/s

95th percentile per-packet one-way delay: 107.693 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 41.52 Mbit/s

95th percentile per-packet one-way delay: 105.738 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 34.47 Mbit/s

95th percentile per-packet one-way delay: 126.581 ms

Loss rate: 0.12%

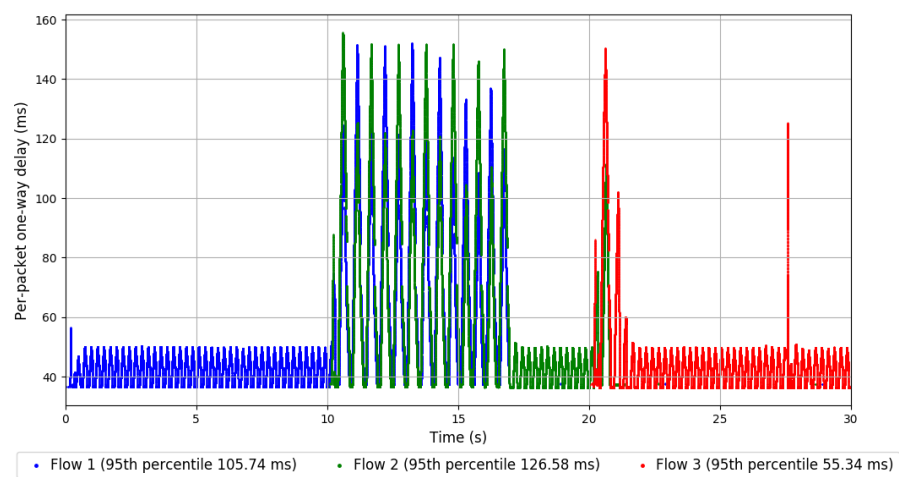
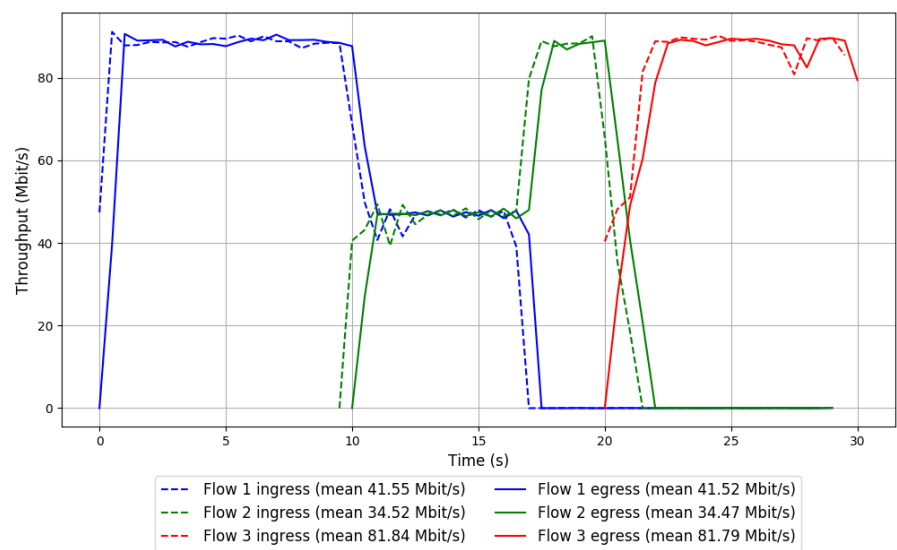
-- Flow 3:

Average throughput: 81.79 Mbit/s

95th percentile per-packet one-way delay: 55.343 ms

Loss rate: 0.78%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-12-11 17:13:34

End at: 2019-12-11 17:14:04

Local clock offset: 1.144 ms

Remote clock offset: 2.365 ms

Below is generated by plot.py at 2019-12-11 17:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.55 Mbit/s

95th percentile per-packet one-way delay: 104.328 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 41.61 Mbit/s

95th percentile per-packet one-way delay: 105.848 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 33.41 Mbit/s

95th percentile per-packet one-way delay: 125.259 ms

Loss rate: 0.14%

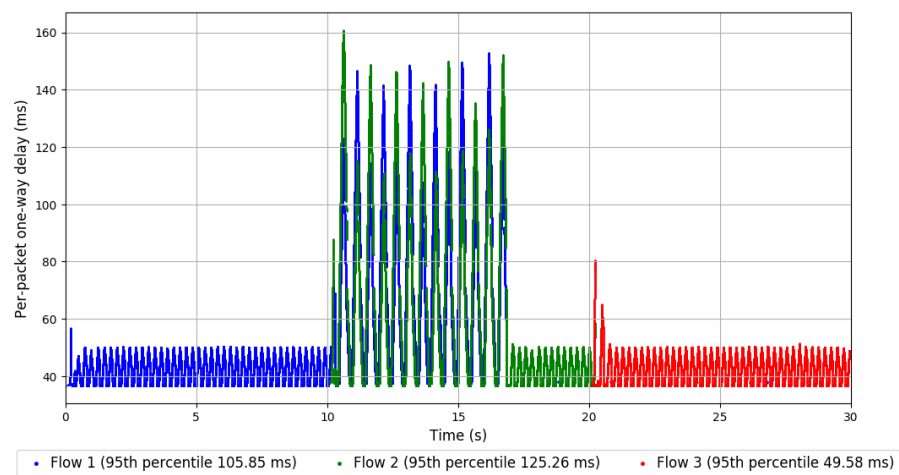
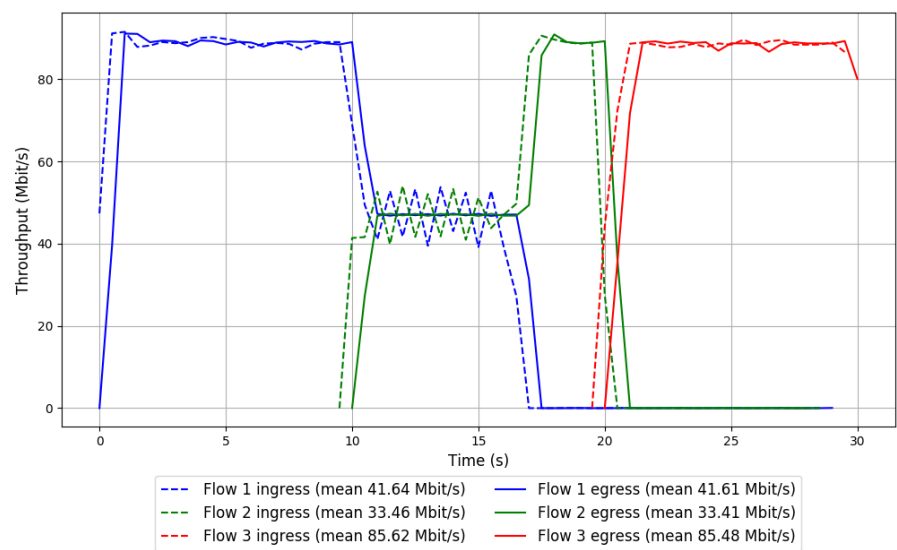
-- Flow 3:

Average throughput: 85.48 Mbit/s

95th percentile per-packet one-way delay: 49.581 ms

Loss rate: 0.89%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-12-11 15:13:47

End at: 2019-12-11 15:14:17

Local clock offset: 1.531 ms

Remote clock offset: 3.45 ms

Below is generated by plot.py at 2019-12-11 17:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.37 Mbit/s

95th percentile per-packet one-way delay: 40.930 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 44.50 Mbit/s

95th percentile per-packet one-way delay: 42.104 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 27.87 Mbit/s

95th percentile per-packet one-way delay: 39.502 ms

Loss rate: 0.32%

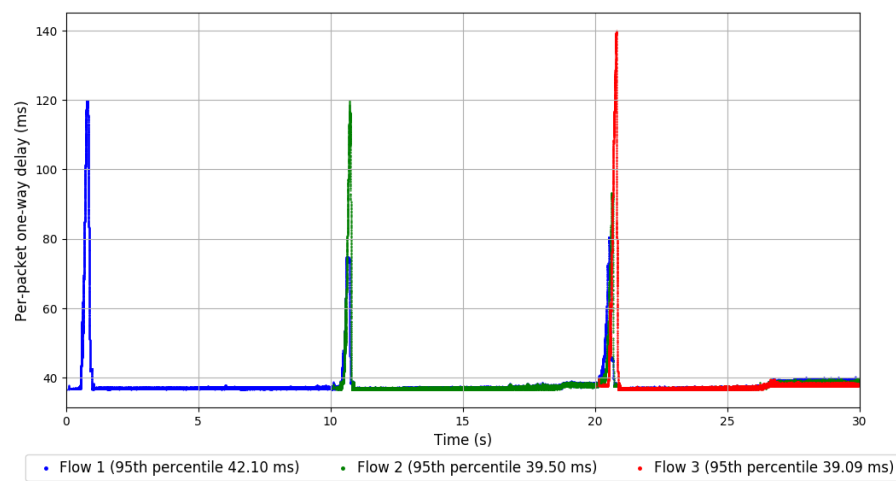
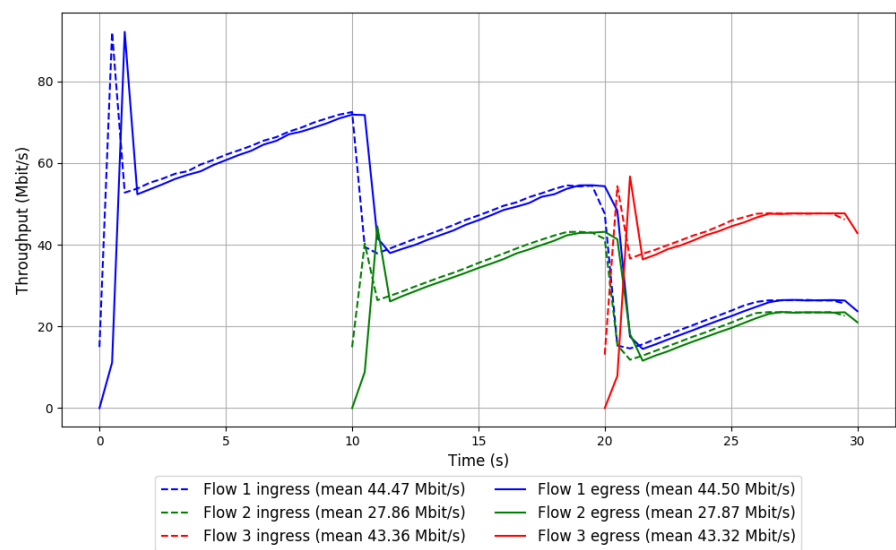
-- Flow 3:

Average throughput: 43.32 Mbit/s

95th percentile per-packet one-way delay: 39.090 ms

Loss rate: 0.81%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-12-11 15:44:05

End at: 2019-12-11 15:44:35

Local clock offset: 1.46 ms

Remote clock offset: 3.63 ms

Below is generated by plot.py at 2019-12-11 17:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.59 Mbit/s

95th percentile per-packet one-way delay: 40.038 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 47.75 Mbit/s

95th percentile per-packet one-way delay: 40.295 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 32.10 Mbit/s

95th percentile per-packet one-way delay: 38.570 ms

Loss rate: 0.34%

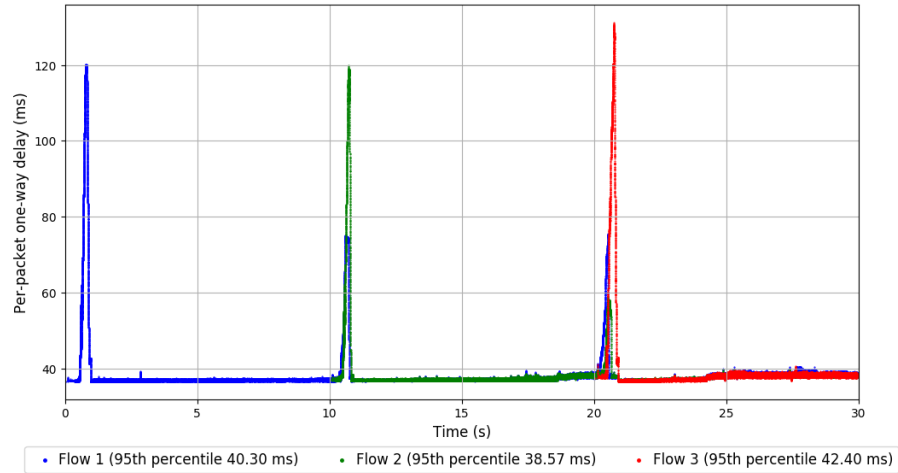
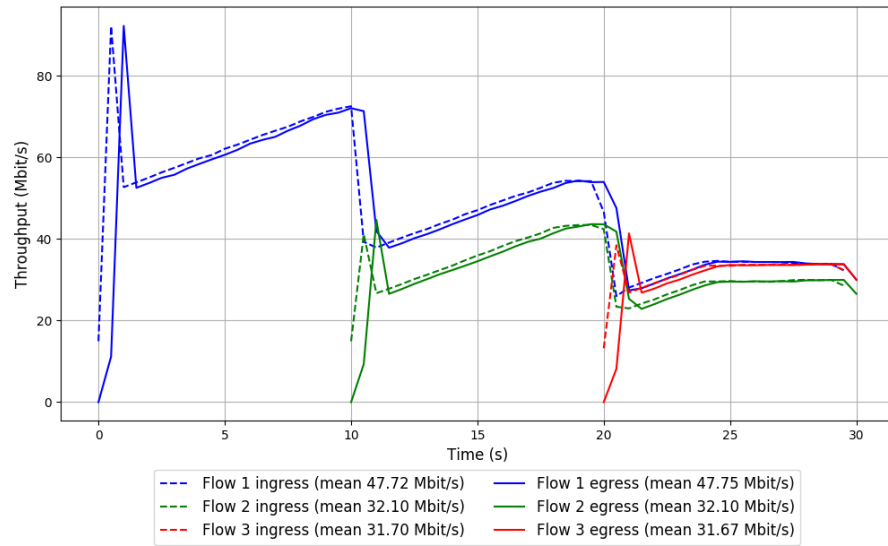
-- Flow 3:

Average throughput: 31.67 Mbit/s

95th percentile per-packet one-way delay: 42.404 ms

Loss rate: 0.79%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-12-11 16:14:11

End at: 2019-12-11 16:14:41

Local clock offset: -0.383 ms

Remote clock offset: 3.554 ms

Below is generated by plot.py at 2019-12-11 17:42:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.44 Mbit/s

95th percentile per-packet one-way delay: 41.053 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 48.38 Mbit/s

95th percentile per-packet one-way delay: 41.268 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 28.19 Mbit/s

95th percentile per-packet one-way delay: 39.188 ms

Loss rate: 0.34%

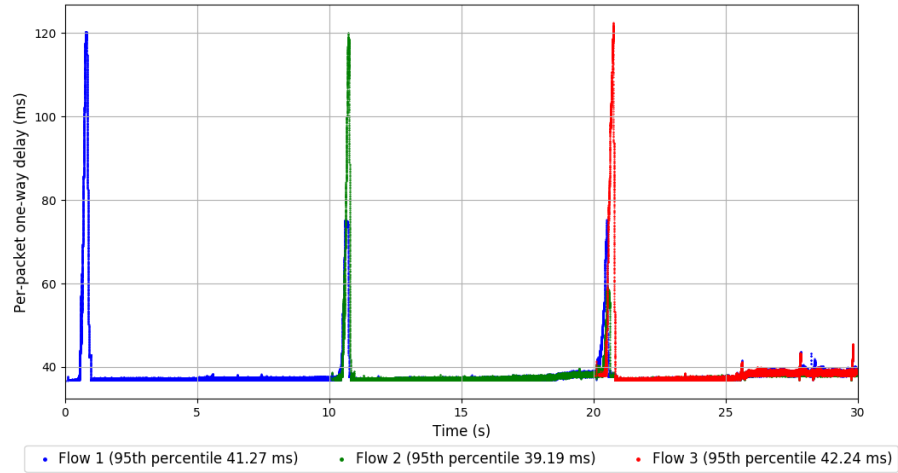
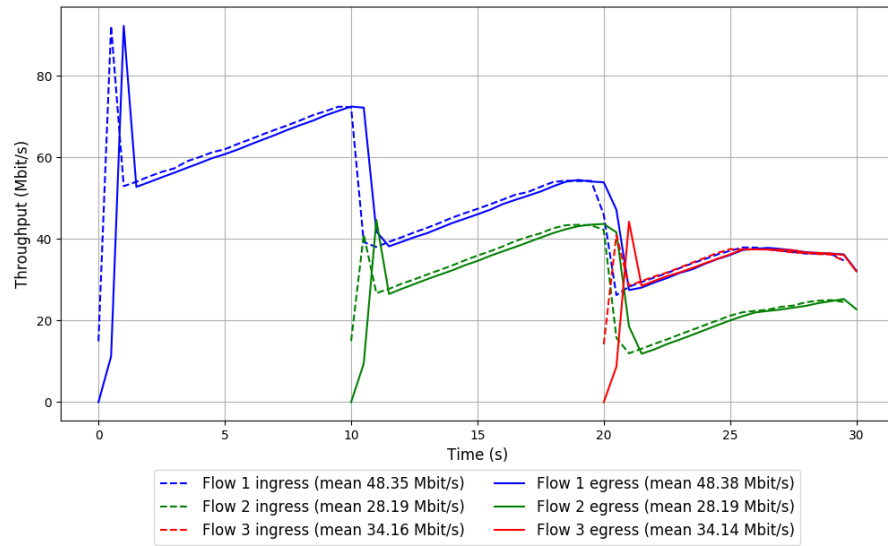
-- Flow 3:

Average throughput: 34.14 Mbit/s

95th percentile per-packet one-way delay: 42.239 ms

Loss rate: 0.79%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-12-11 16:44:59

End at: 2019-12-11 16:45:29

Local clock offset: -0.461 ms

Remote clock offset: 2.593 ms

Below is generated by plot.py at 2019-12-11 17:42:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.27 Mbit/s

95th percentile per-packet one-way delay: 39.177 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 49.10 Mbit/s

95th percentile per-packet one-way delay: 38.280 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 37.91 Mbit/s

95th percentile per-packet one-way delay: 39.089 ms

Loss rate: 0.41%

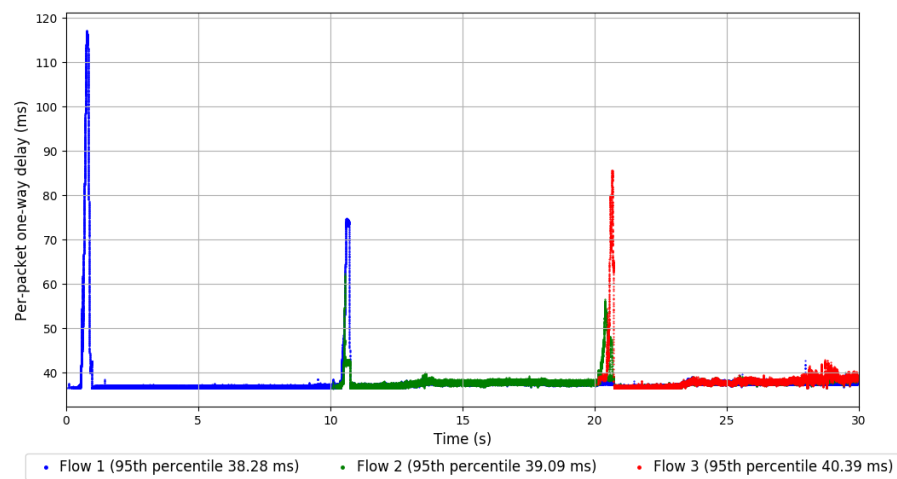
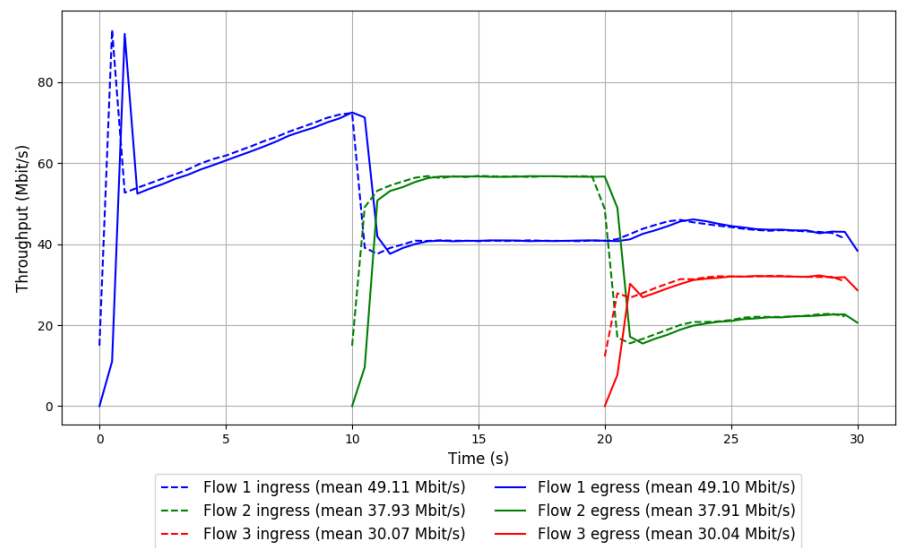
-- Flow 3:

Average throughput: 30.04 Mbit/s

95th percentile per-packet one-way delay: 40.386 ms

Loss rate: 0.79%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-12-11 17:17:29

End at: 2019-12-11 17:17:59

Local clock offset: 1.089 ms

Remote clock offset: 2.705 ms

Below is generated by plot.py at 2019-12-11 17:42:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.09 Mbit/s

95th percentile per-packet one-way delay: 40.543 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 45.10 Mbit/s

95th percentile per-packet one-way delay: 39.881 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 38.65 Mbit/s

95th percentile per-packet one-way delay: 39.023 ms

Loss rate: 0.26%

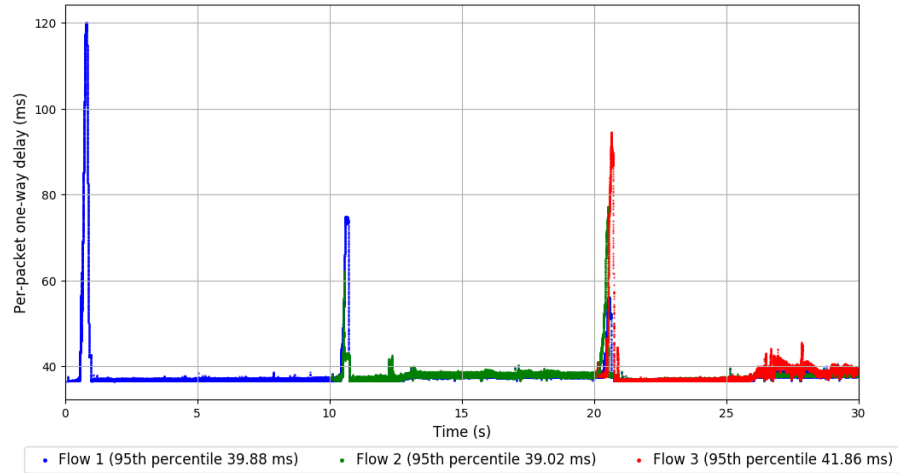
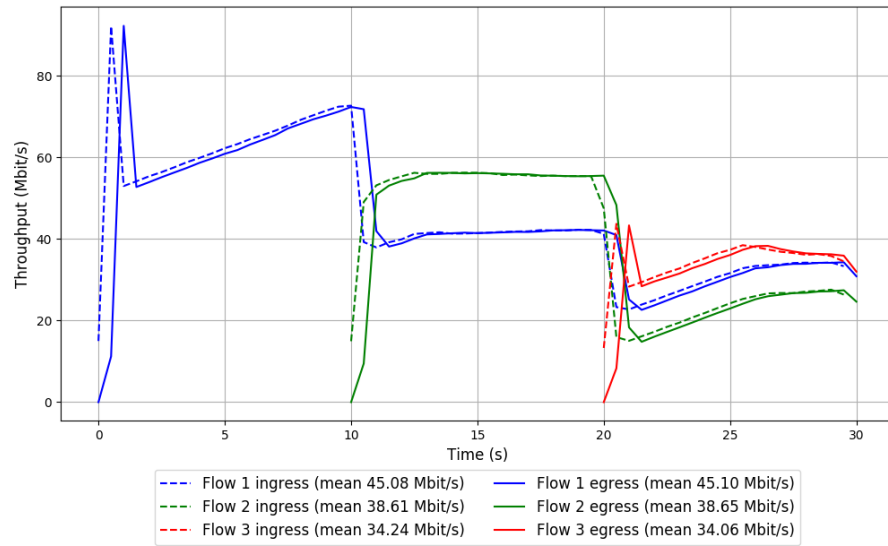
-- Flow 3:

Average throughput: 34.06 Mbit/s

95th percentile per-packet one-way delay: 41.860 ms

Loss rate: 1.23%

Run 5: Report of TCP Vegas — Data Link

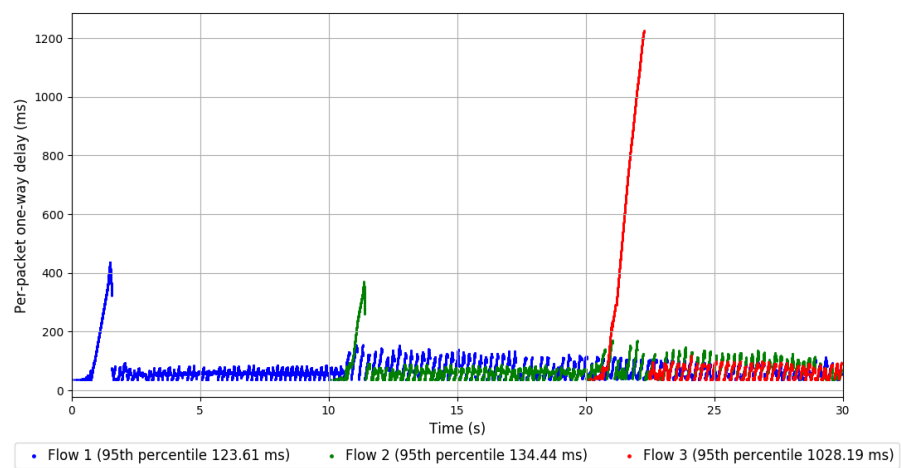
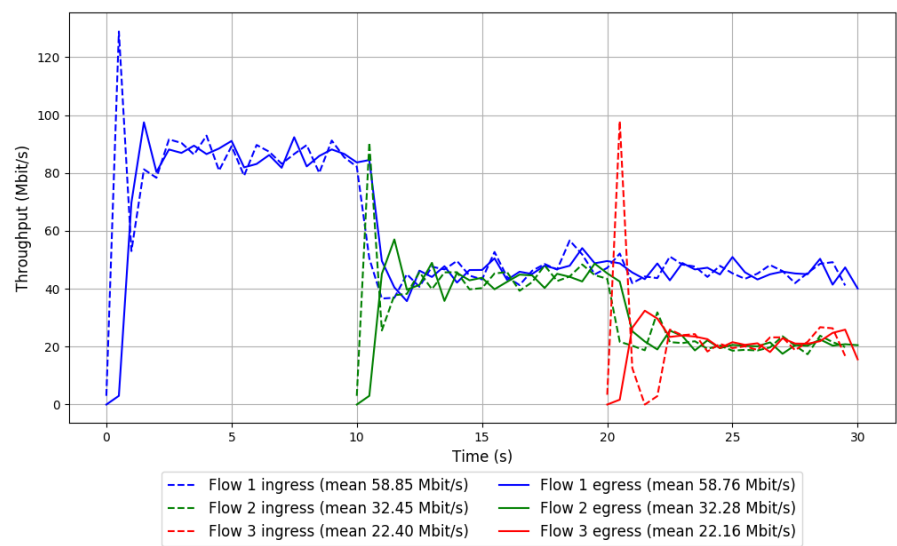


```
Run 1: Statistics of Verus

Start at: 2019-12-11 15:01:29
End at: 2019-12-11 15:01:59
Local clock offset: 1.17 ms
Remote clock offset: 3.102 ms

# Below is generated by plot.py at 2019-12-11 17:42:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.54 Mbit/s
95th percentile per-packet one-way delay: 147.638 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 123.605 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 32.28 Mbit/s
95th percentile per-packet one-way delay: 134.435 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 22.16 Mbit/s
95th percentile per-packet one-way delay: 1028.190 ms
Loss rate: 1.76%
```

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-12-11 15:31:13

End at: 2019-12-11 15:31:43

Local clock offset: 1.906 ms

Remote clock offset: 3.772 ms

Below is generated by plot.py at 2019-12-11 17:43:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.09 Mbit/s

95th percentile per-packet one-way delay: 194.644 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 50.85 Mbit/s

95th percentile per-packet one-way delay: 176.258 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 30.41 Mbit/s

95th percentile per-packet one-way delay: 217.828 ms

Loss rate: 1.00%

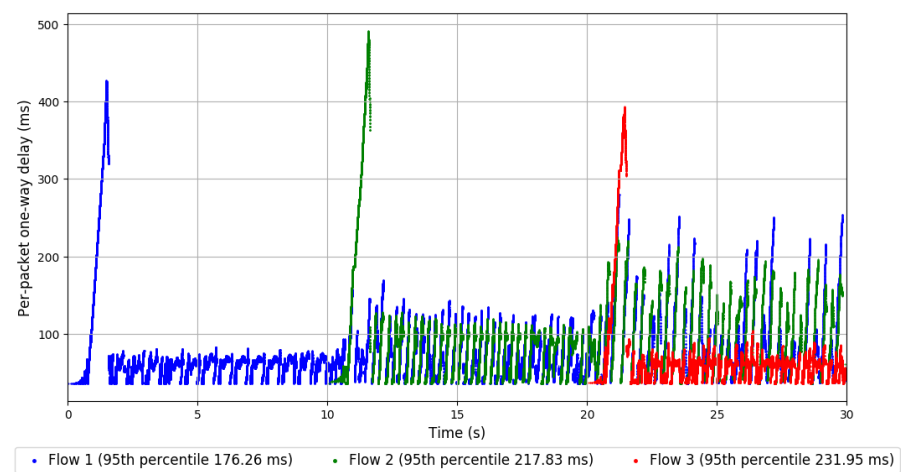
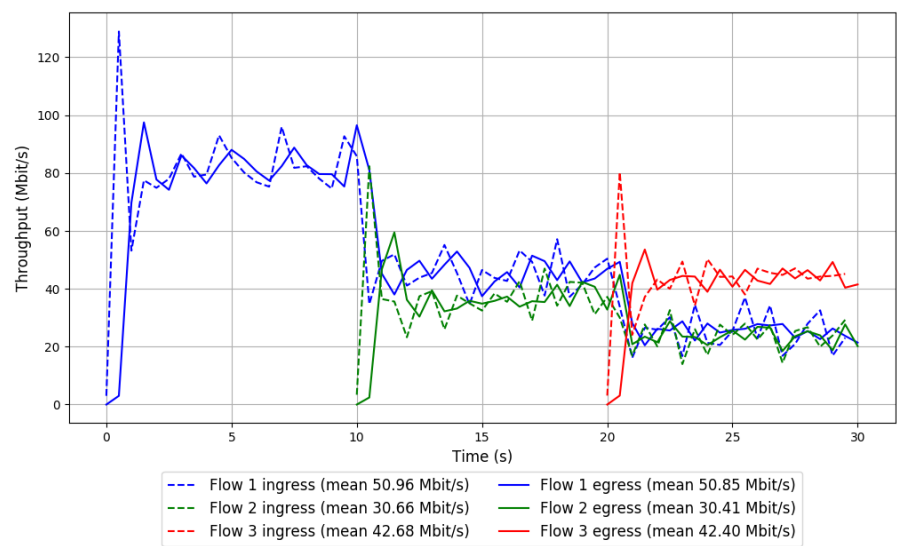
-- Flow 3:

Average throughput: 42.40 Mbit/s

95th percentile per-packet one-way delay: 231.947 ms

Loss rate: 1.34%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-12-11 16:01:46

End at: 2019-12-11 16:02:16

Local clock offset: 0.967 ms

Remote clock offset: 4.058 ms

Below is generated by plot.py at 2019-12-11 17:43:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.27 Mbit/s

95th percentile per-packet one-way delay: 161.481 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 52.73 Mbit/s

95th percentile per-packet one-way delay: 151.466 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 43.11 Mbit/s

95th percentile per-packet one-way delay: 94.018 ms

Loss rate: 0.79%

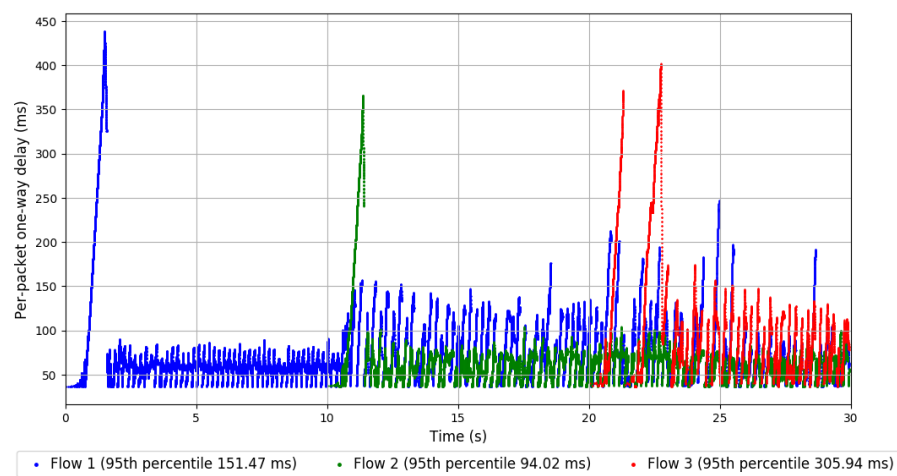
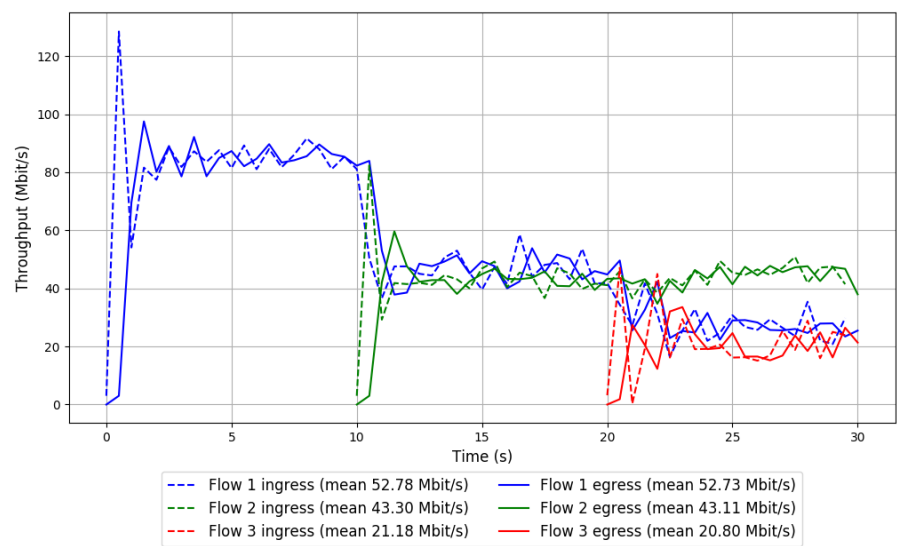
-- Flow 3:

Average throughput: 20.80 Mbit/s

95th percentile per-packet one-way delay: 305.937 ms

Loss rate: 2.47%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-12-11 16:32:23

End at: 2019-12-11 16:32:53

Local clock offset: -1.965 ms

Remote clock offset: 3.602 ms

Below is generated by plot.py at 2019-12-11 17:43:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.64 Mbit/s

95th percentile per-packet one-way delay: 168.494 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 179.619 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 44.32 Mbit/s

95th percentile per-packet one-way delay: 90.961 ms

Loss rate: 0.51%

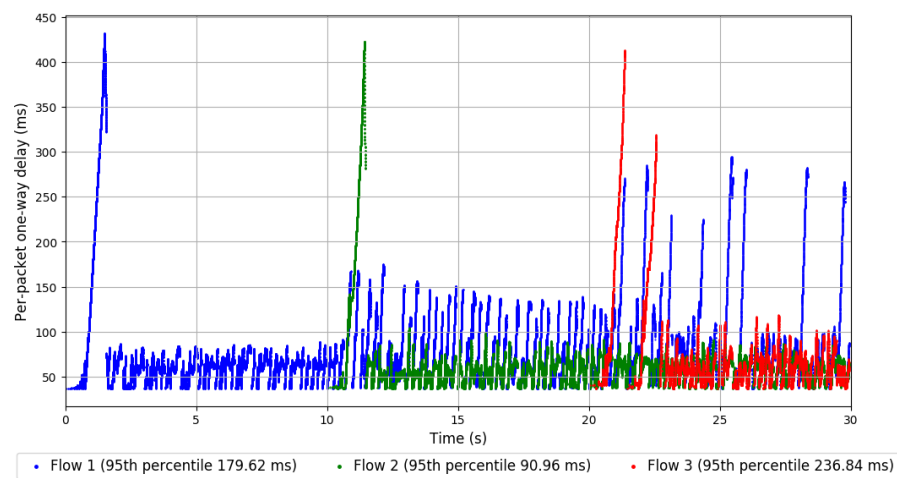
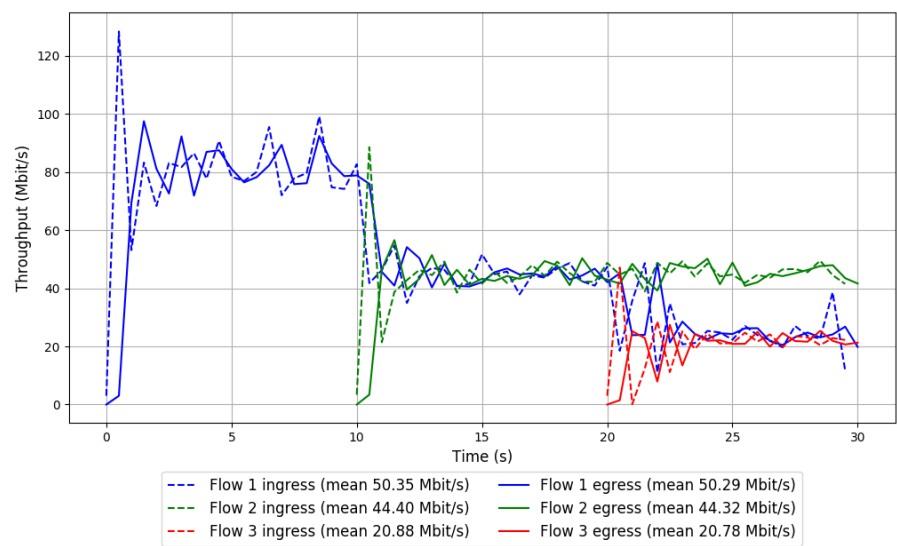
-- Flow 3:

Average throughput: 20.78 Mbit/s

95th percentile per-packet one-way delay: 236.845 ms

Loss rate: 1.23%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-12-11 17:04:09

End at: 2019-12-11 17:04:39

Local clock offset: 1.147 ms

Remote clock offset: 2.066 ms

Below is generated by plot.py at 2019-12-11 17:43:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.34 Mbit/s

95th percentile per-packet one-way delay: 182.272 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 53.39 Mbit/s

95th percentile per-packet one-way delay: 165.910 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 35.71 Mbit/s

95th percentile per-packet one-way delay: 234.425 ms

Loss rate: 1.19%

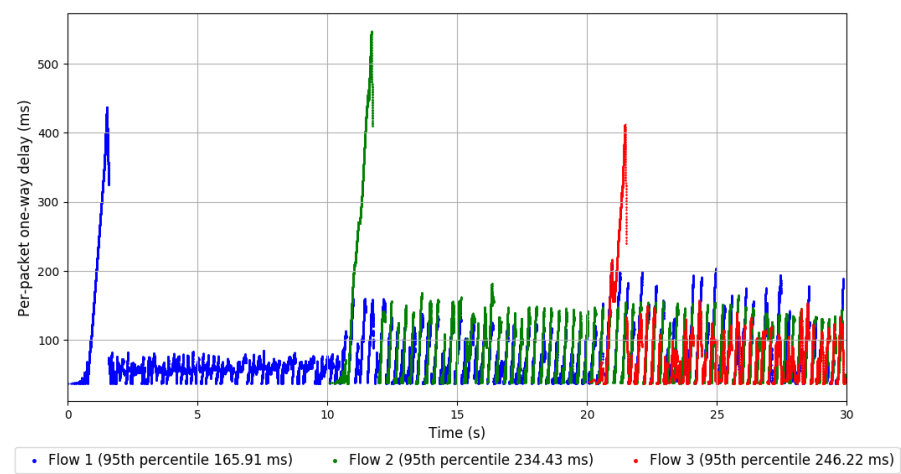
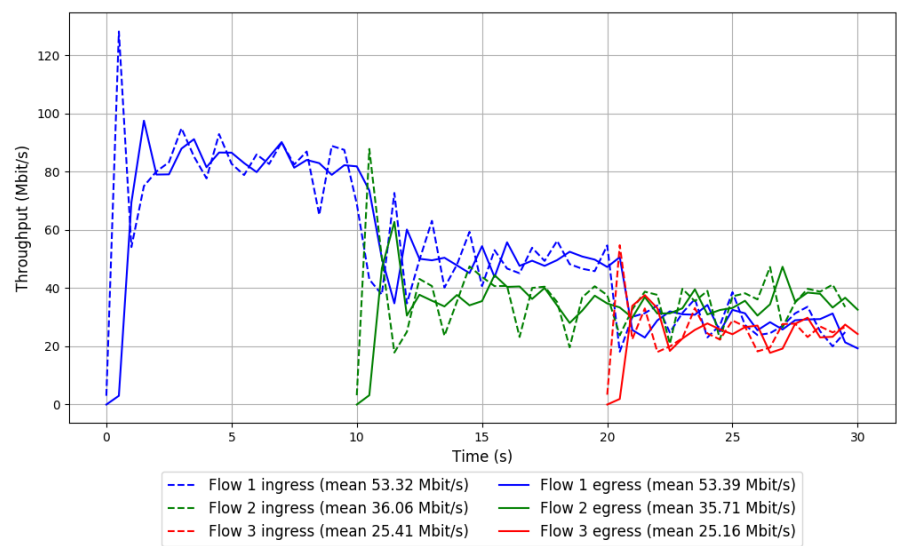
-- Flow 3:

Average throughput: 25.16 Mbit/s

95th percentile per-packet one-way delay: 246.217 ms

Loss rate: 1.45%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-12-11 15:08:48

End at: 2019-12-11 15:09:18

Local clock offset: 1.491 ms

Remote clock offset: 3.29 ms

Below is generated by plot.py at 2019-12-11 17:43:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.05 Mbit/s

95th percentile per-packet one-way delay: 1416.500 ms

Loss rate: 2.81%

-- Flow 1:

Average throughput: 54.79 Mbit/s

95th percentile per-packet one-way delay: 1458.050 ms

Loss rate: 3.36%

-- Flow 2:

Average throughput: 32.86 Mbit/s

95th percentile per-packet one-way delay: 282.932 ms

Loss rate: 1.04%

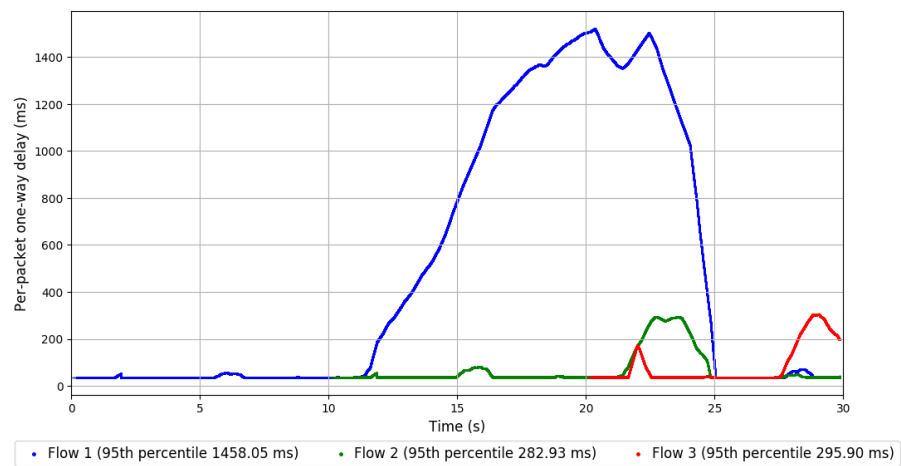
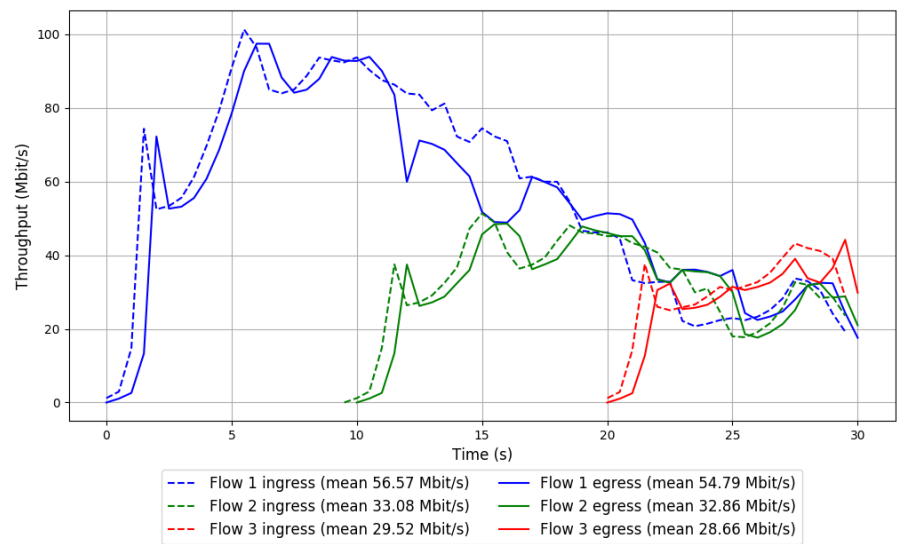
-- Flow 3:

Average throughput: 28.66 Mbit/s

95th percentile per-packet one-way delay: 295.899 ms

Loss rate: 3.60%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-12-11 15:38:46

End at: 2019-12-11 15:39:16

Local clock offset: 2.056 ms

Remote clock offset: 3.625 ms

Below is generated by plot.py at 2019-12-11 17:43:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.24 Mbit/s

95th percentile per-packet one-way delay: 314.515 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 50.75 Mbit/s

95th percentile per-packet one-way delay: 330.628 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 41.98 Mbit/s

95th percentile per-packet one-way delay: 101.454 ms

Loss rate: 0.53%

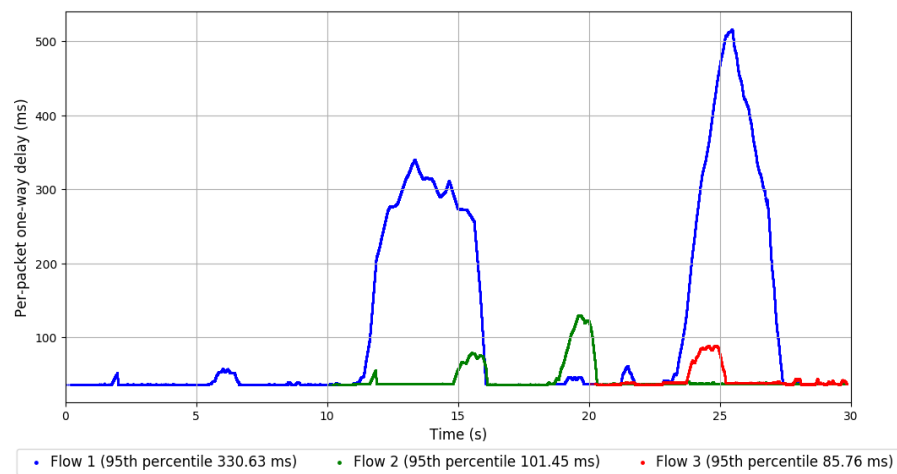
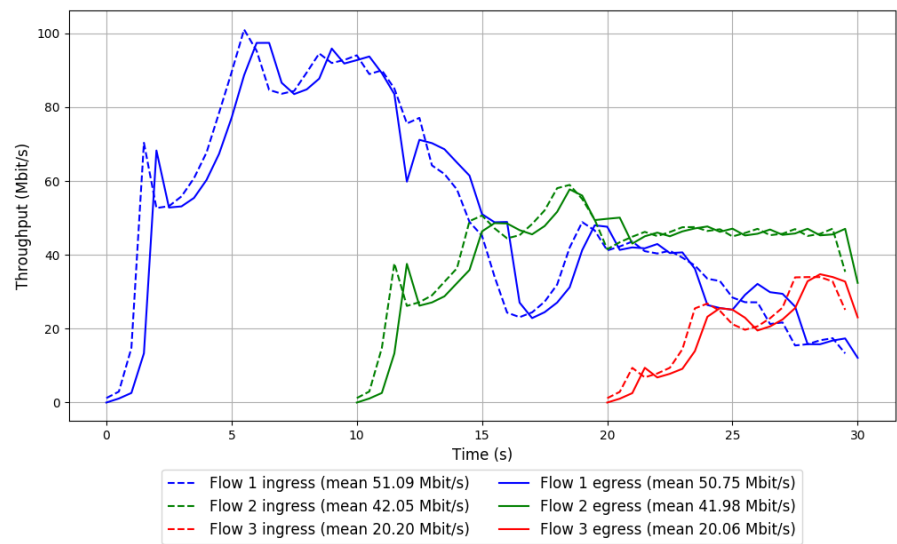
-- Flow 3:

Average throughput: 20.06 Mbit/s

95th percentile per-packet one-way delay: 85.762 ms

Loss rate: 1.45%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-12-11 16:09:06

End at: 2019-12-11 16:09:36

Local clock offset: 0.803 ms

Remote clock offset: 3.792 ms

Below is generated by plot.py at 2019-12-11 17:43:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 1837.194 ms

Loss rate: 5.62%

-- Flow 1:

Average throughput: 56.46 Mbit/s

95th percentile per-packet one-way delay: 1907.464 ms

Loss rate: 8.13%

-- Flow 2:

Average throughput: 34.01 Mbit/s

95th percentile per-packet one-way delay: 146.504 ms

Loss rate: 0.63%

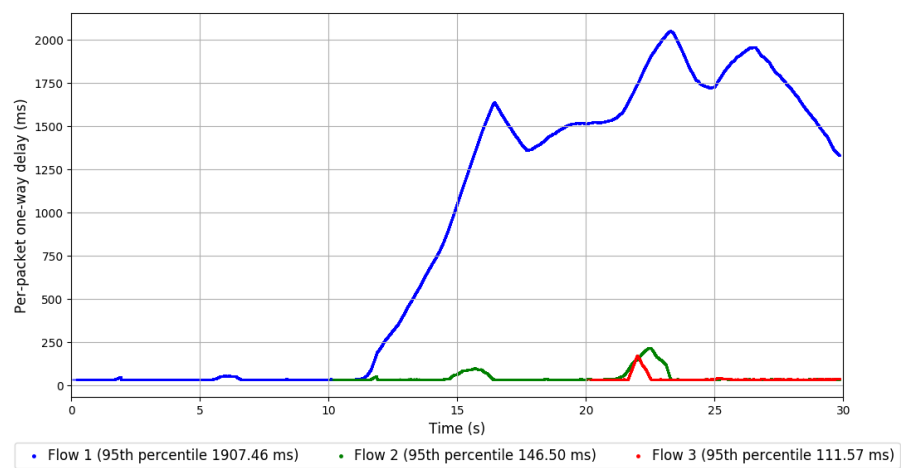
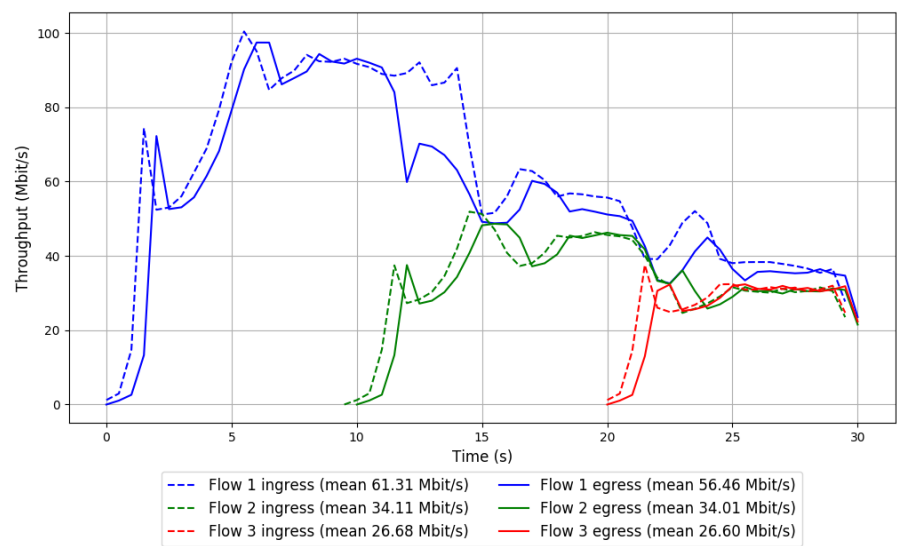
-- Flow 3:

Average throughput: 26.60 Mbit/s

95th percentile per-packet one-way delay: 111.566 ms

Loss rate: 1.01%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-12-11 16:39:58

End at: 2019-12-11 16:40:28

Local clock offset: -1.691 ms

Remote clock offset: 3.245 ms

Below is generated by plot.py at 2019-12-11 17:43:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.31 Mbit/s

95th percentile per-packet one-way delay: 344.078 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 52.93 Mbit/s

95th percentile per-packet one-way delay: 359.652 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 34.86 Mbit/s

95th percentile per-packet one-way delay: 292.441 ms

Loss rate: 2.19%

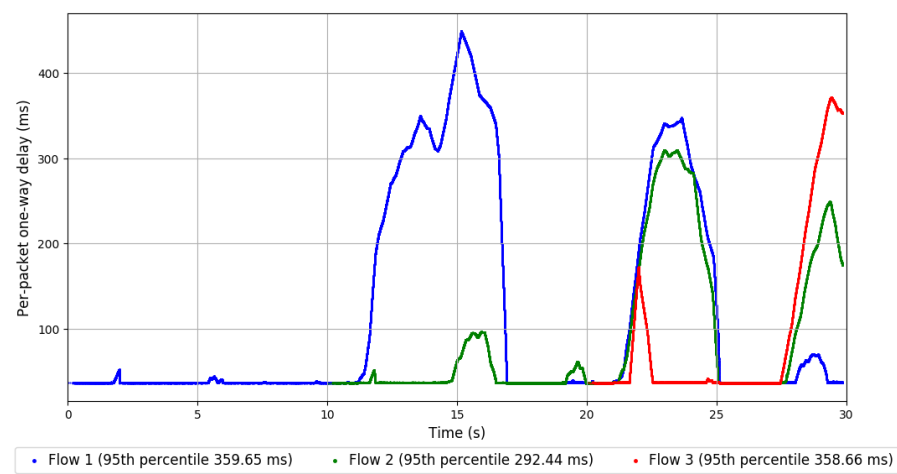
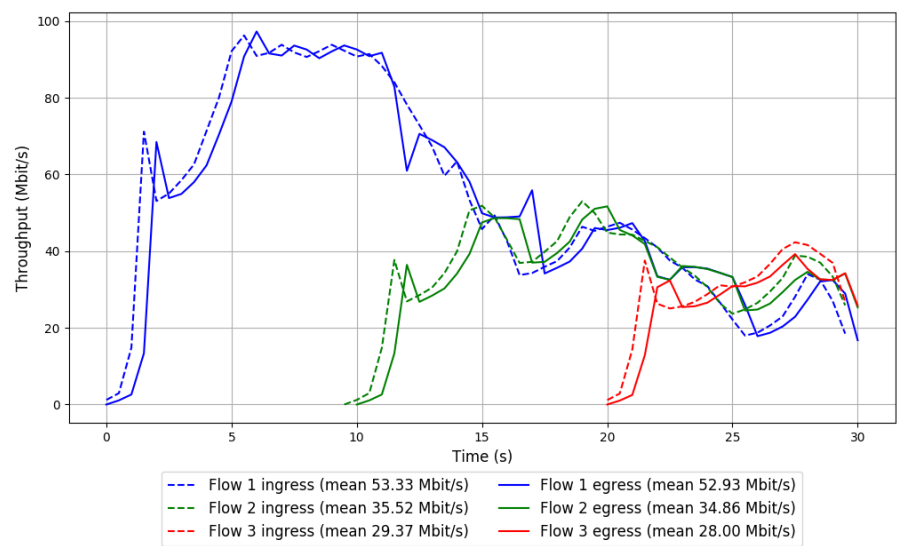
-- Flow 3:

Average throughput: 28.00 Mbit/s

95th percentile per-packet one-way delay: 358.663 ms

Loss rate: 5.36%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-12-11 17:12:12

End at: 2019-12-11 17:12:42

Local clock offset: 1.161 ms

Remote clock offset: 2.198 ms

Below is generated by plot.py at 2019-12-11 17:43:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.60 Mbit/s

95th percentile per-packet one-way delay: 1410.804 ms

Loss rate: 4.99%

-- Flow 1:

Average throughput: 52.49 Mbit/s

95th percentile per-packet one-way delay: 665.480 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 37.48 Mbit/s

95th percentile per-packet one-way delay: 1571.255 ms

Loss rate: 12.89%

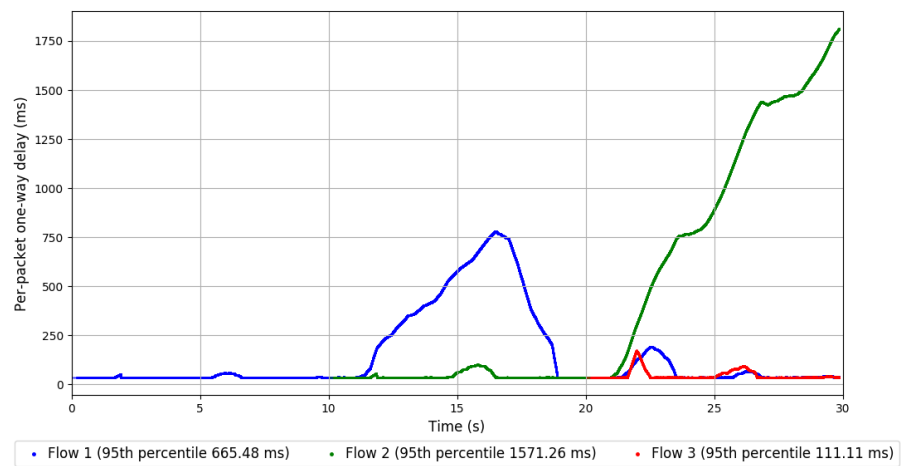
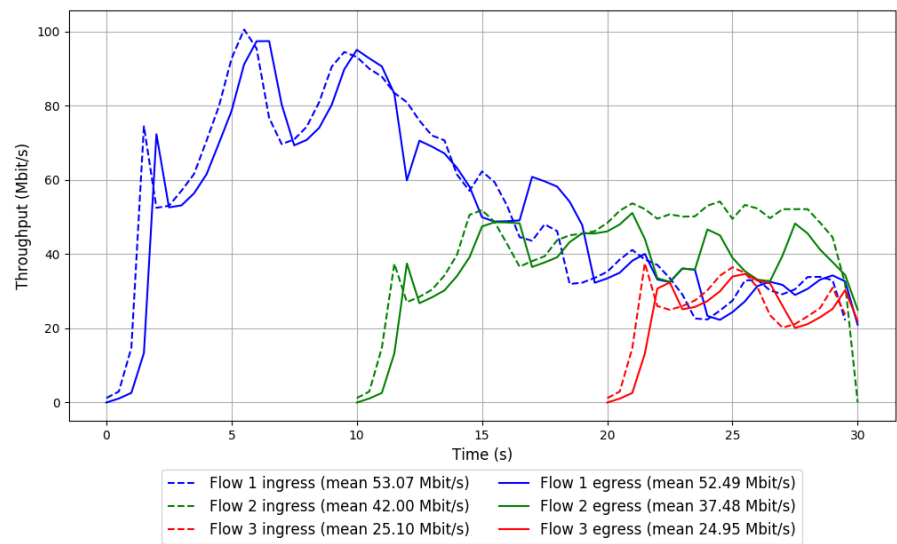
-- Flow 3:

Average throughput: 24.95 Mbit/s

95th percentile per-packet one-way delay: 111.114 ms

Loss rate: 1.30%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-12-11 15:00:19

End at: 2019-12-11 15:00:49

Local clock offset: 1.134 ms

Remote clock offset: 3.067 ms

Below is generated by plot.py at 2019-12-11 17:43:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 37.267 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 37.234 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 37.196 ms

Loss rate: 0.00%

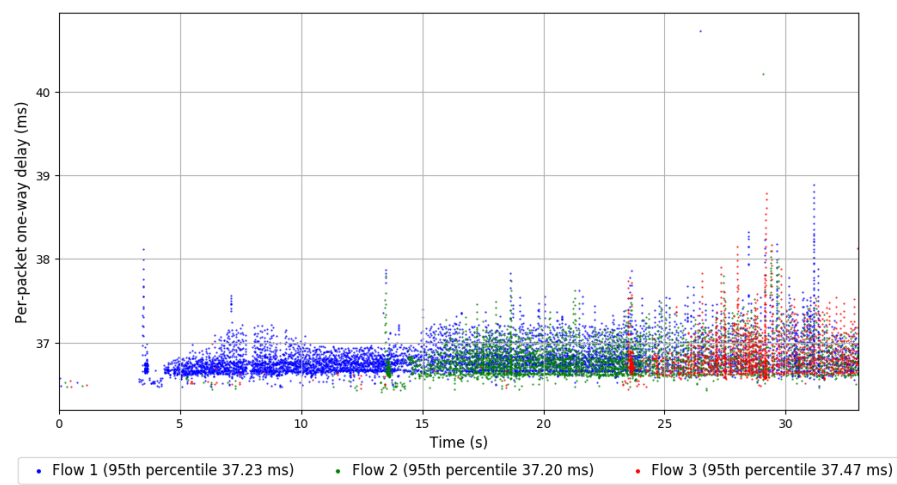
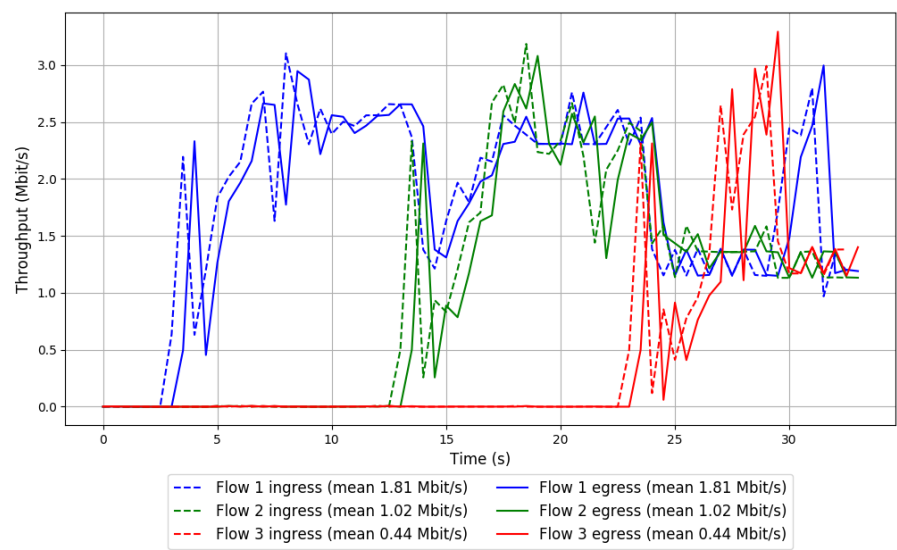
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 37.473 ms

Loss rate: 0.73%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-12-11 15:30:03

End at: 2019-12-11 15:30:33

Local clock offset: 1.892 ms

Remote clock offset: 3.768 ms

Below is generated by plot.py at 2019-12-11 17:43:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.16 Mbit/s

95th percentile per-packet one-way delay: 37.387 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 37.258 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 37.427 ms

Loss rate: 0.35%

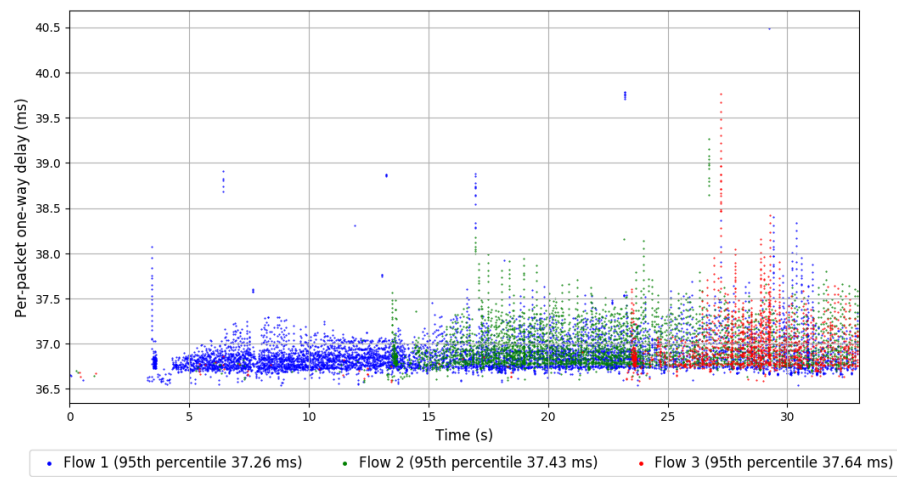
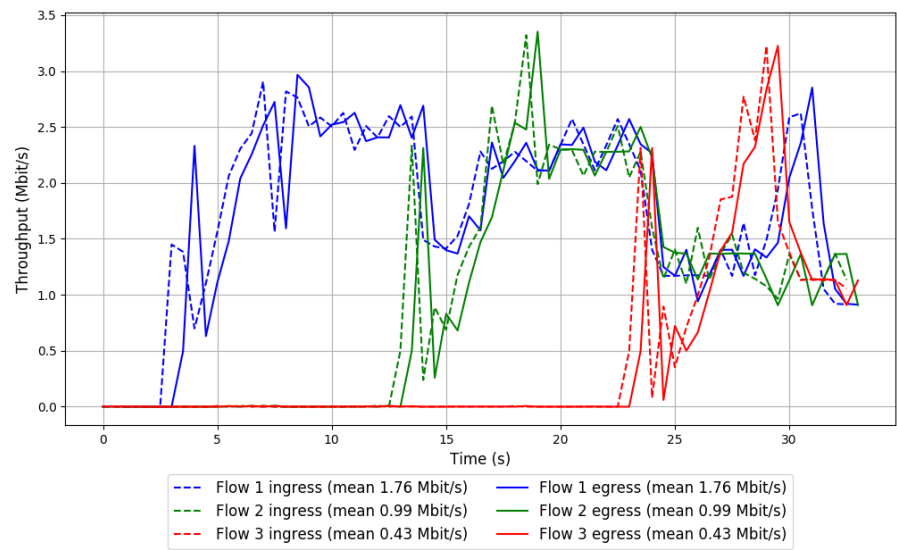
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 37.643 ms

Loss rate: 0.54%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-12-11 16:00:36

End at: 2019-12-11 16:01:06

Local clock offset: 0.974 ms

Remote clock offset: 4.037 ms

Below is generated by plot.py at 2019-12-11 17:43:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 37.209 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 37.187 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 37.165 ms

Loss rate: 0.12%

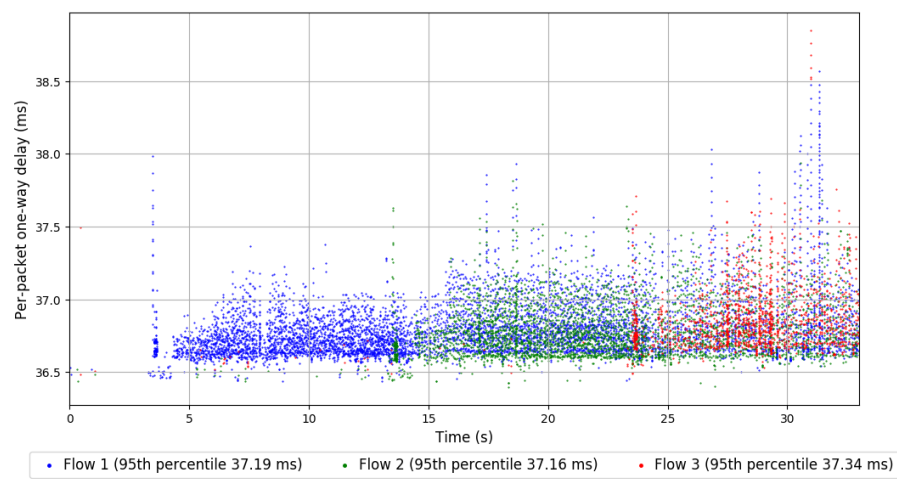
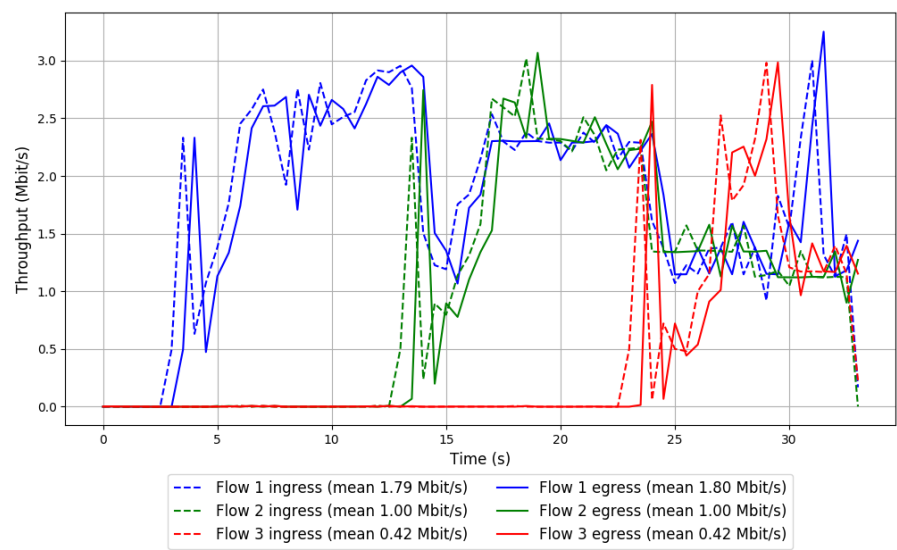
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 37.341 ms

Loss rate: 0.84%

Run 3: Report of WebRTC media — Data Link

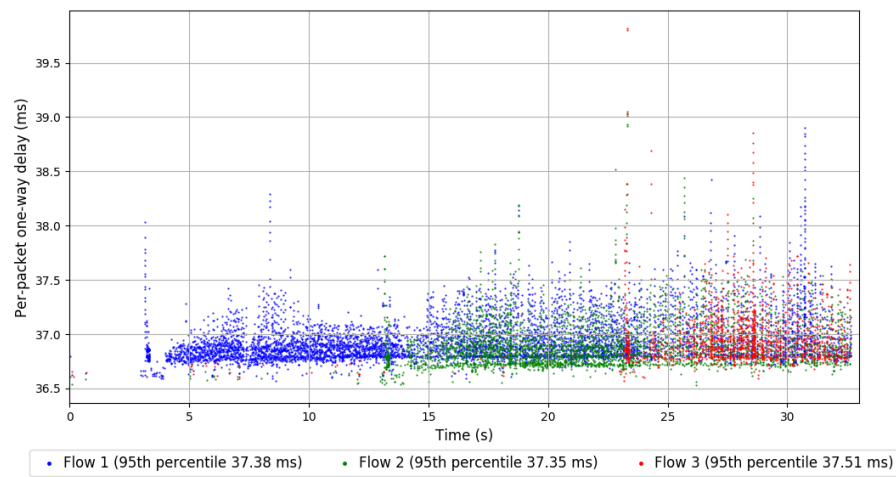
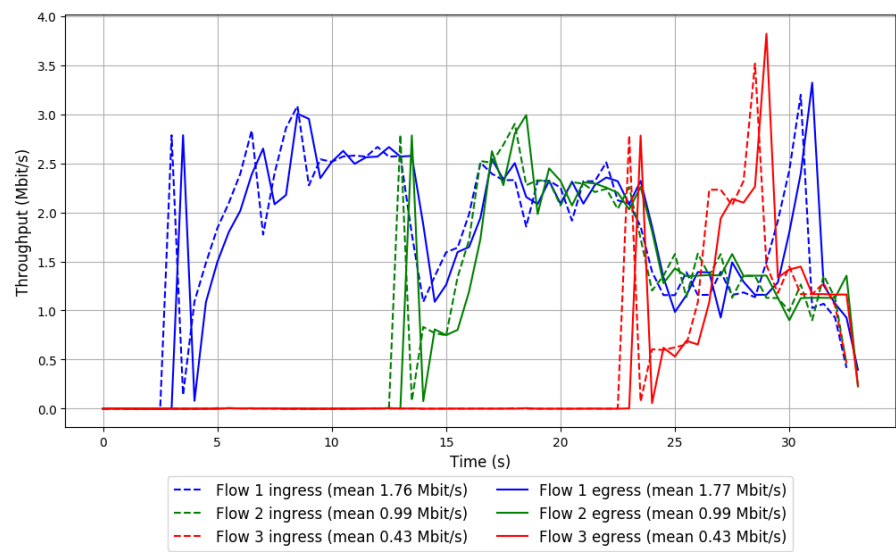


Run 4: Statistics of WebRTC media

Start at: 2019-12-11 16:31:13
End at: 2019-12-11 16:31:43
Local clock offset: -1.893 ms
Remote clock offset: 3.711 ms

Below is generated by plot.py at 2019-12-11 17:43:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 37.385 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 37.378 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 37.348 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 37.505 ms
Loss rate: 0.83%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-12-11 17:02:59

End at: 2019-12-11 17:03:29

Local clock offset: 1.079 ms

Remote clock offset: 2.01 ms

Below is generated by plot.py at 2019-12-11 17:43:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 37.311 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 37.247 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 37.326 ms

Loss rate: 0.36%

-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 37.482 ms

Loss rate: 0.82%

Run 5: Report of WebRTC media — Data Link

