

## Pantheon Report

Generated at 2019-10-03 02:42:27 (UTC).

Data path: AWS California 1 on `ens5` (*local*) → Stanford on `eno1` (*remote*).

Repeated the test of 24 congestion control schemes 5 times.

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

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

### System info:

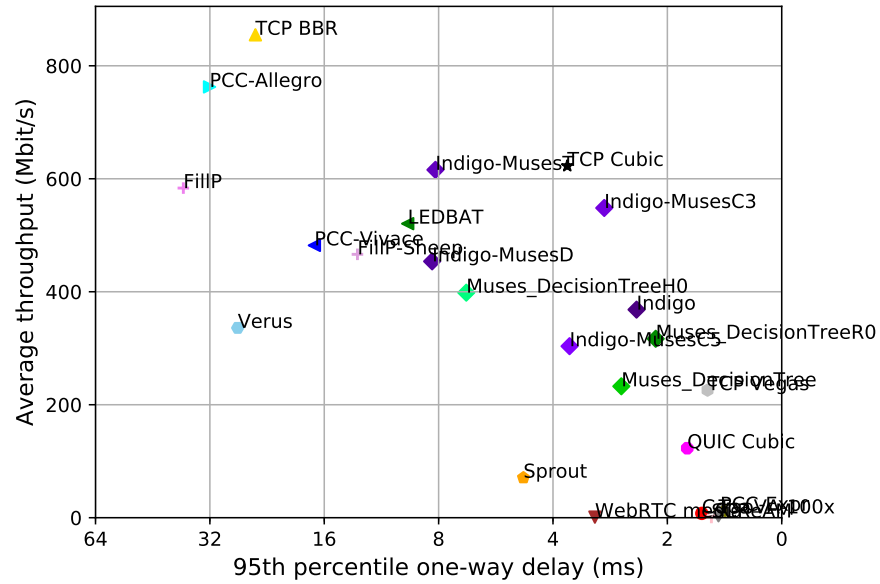
```
Linux 4.15.0-1050-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

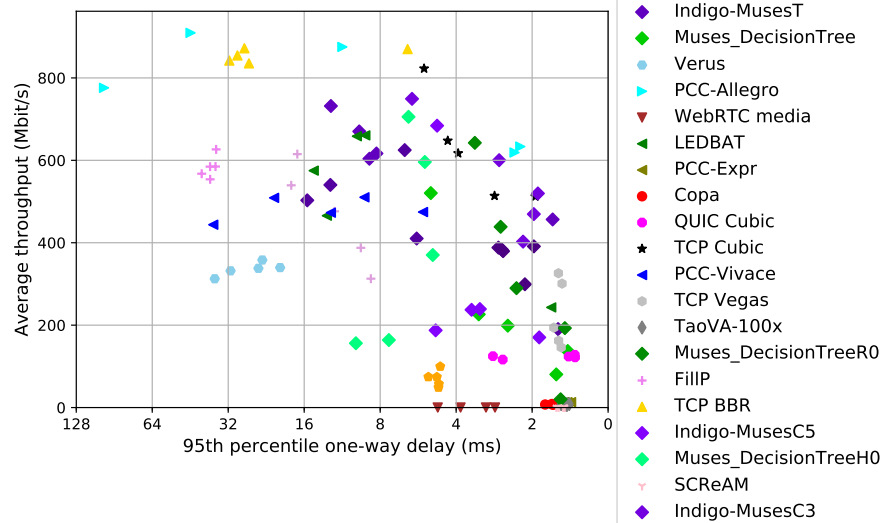
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d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

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

test from AWS California 1 to Stanford, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	453.75	418.92	367.19	21.13	18.90	7.17	5.08	7.11	10.15
Copa	5	0.00	7.98	7.67	1.12	1.62	1.51	98.00	51.81	63.24
TCP Cubic	5	264.00	397.98	281.46	3.62	3.12	2.05	0.04	0.06	0.06
FillP	5	369.44	238.28	167.37	32.94	34.20	33.40	6.82	8.99	14.02
FillP-Sheep	5	319.53	154.61	132.38	14.51	8.44	6.94	2.30	7.81	11.40
Indigo	5	182.21	190.98	184.17	1.79	2.46	3.18	0.02	0.01	0.03
Indigo-MusesC3	5	293.42	289.55	237.87	3.11	2.53	2.41	0.22	0.36	0.17
Indigo-MusesC5	5	144.60	168.31	163.44	2.29	3.47	4.17	0.33	0.38	0.49
Indigo-MusesD	5	222.78	273.72	188.20	4.69	6.45	2.08	0.08	0.20	0.37
Indigo-MusesT	5	303.53	397.87	192.02	3.97	6.90	2.41	0.26	0.63	1.72
LEDBAT	5	293.54	271.94	145.32	7.93	5.83	3.36	0.08	0.13	0.13
Muses_DecisionTree	5	167.77	24.85	148.76	2.56	1.04	1.83	0.02	0.01	0.03
Muses_DecisionTreeH0	5	224.63	119.51	291.00	4.32	2.09	5.16	0.12	0.18	0.10
Muses_DecisionTreeR0	5	163.62	148.62	167.95	2.10	1.30	1.60	0.03	0.04	0.04
PCC-Allegro	5	511.42	328.85	98.65	34.35	2.19	2.19	0.72	0.43	0.47
PCC-Expr	5	7.10	6.15	3.42	1.09	1.06	1.05	56.55	42.05	50.75
QUIC Cubic	5	65.32	62.26	49.79	1.51	2.11	1.83	0.01	0.01	0.01
SCReAM	5	0.22	0.21	0.22	1.25	1.21	1.20	0.00	0.05	0.00
Sprout	5	34.79	34.55	39.50	4.77	4.52	4.86	0.08	0.09	0.13
TaoVA-100x	5	0.00	7.05	8.90	1.09	1.13	1.09	95.92	65.07	68.25
TCP Vegas	5	100.74	127.34	121.07	1.30	1.25	1.50	0.03	0.02	0.12
Verus	5	186.93	133.67	186.38	32.58	24.58	28.33	14.50	11.17	15.90
PCC-Vivace	5	267.36	239.37	168.22	11.58	28.89	23.00	0.09	0.20	0.28
WebRTC media	5	0.50	0.42	0.18	2.36	3.19	3.84	0.01	0.00	0.01

Run 1: Statistics of TCP BBR

Start at: 2019-10-02 23:06:47

End at: 2019-10-02 23:07:17

Local clock offset: 2.802 ms

Remote clock offset: 0.775 ms

# Below is generated by plot.py at 2019-10-03 01:50:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 871.96 Mbit/s

95th percentile per-packet one-way delay: 27.607 ms

Loss rate: 6.09%

-- Flow 1:

Average throughput: 417.11 Mbit/s

95th percentile per-packet one-way delay: 29.617 ms

Loss rate: 5.46%

-- Flow 2:

Average throughput: 480.84 Mbit/s

95th percentile per-packet one-way delay: 5.920 ms

Loss rate: 6.06%

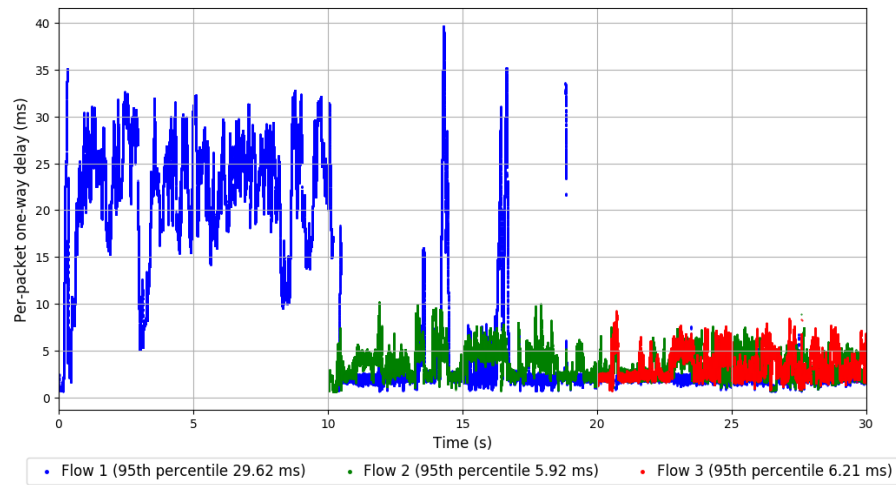
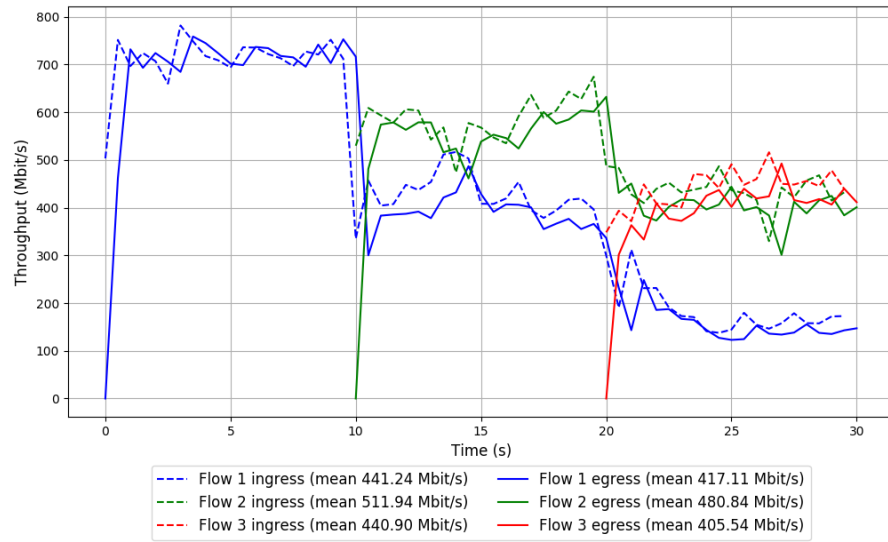
-- Flow 3:

Average throughput: 405.54 Mbit/s

95th percentile per-packet one-way delay: 6.209 ms

Loss rate: 8.02%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-10-02 23:41:30

End at: 2019-10-02 23:42:00

Local clock offset: 4.053 ms

Remote clock offset: 0.284 ms

# Below is generated by plot.py at 2019-10-03 01:50:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 870.04 Mbit/s

95th percentile per-packet one-way delay: 6.228 ms

Loss rate: 5.91%

-- Flow 1:

Average throughput: 469.51 Mbit/s

95th percentile per-packet one-way delay: 6.055 ms

Loss rate: 4.76%

-- Flow 2:

Average throughput: 417.92 Mbit/s

95th percentile per-packet one-way delay: 6.484 ms

Loss rate: 5.99%

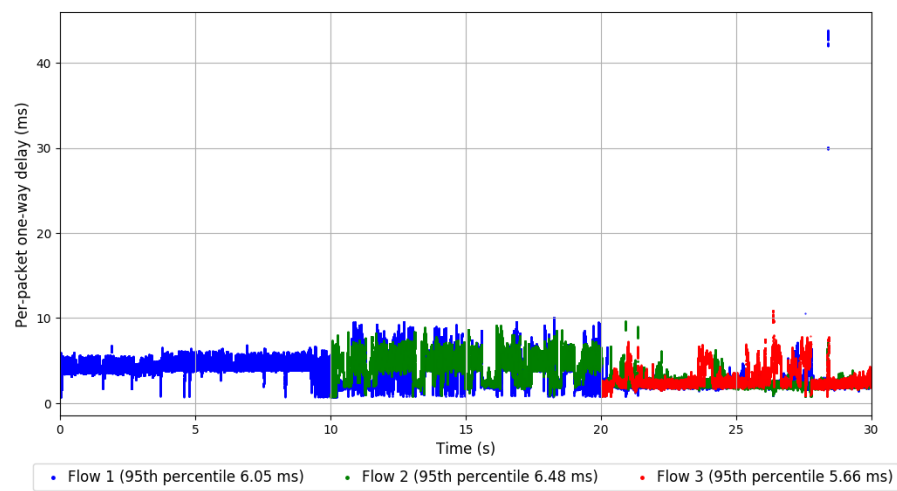
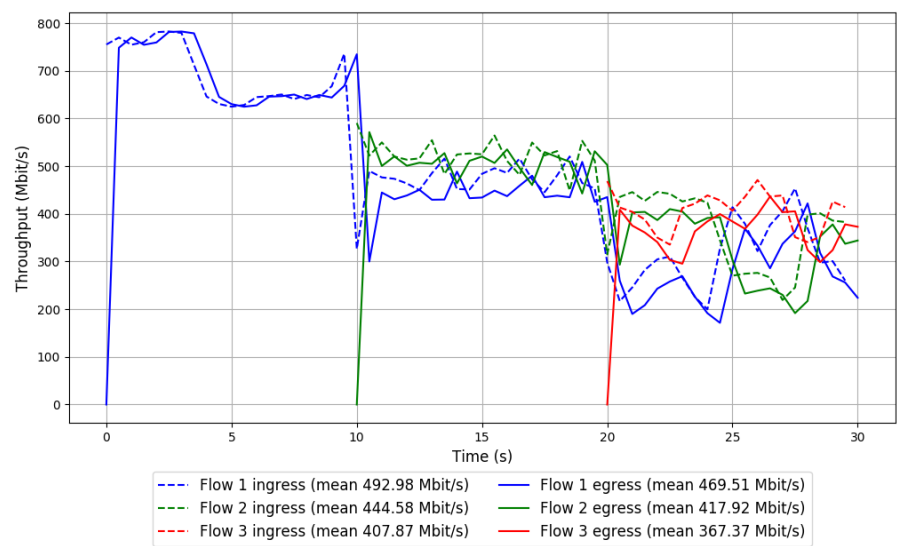
-- Flow 3:

Average throughput: 367.37 Mbit/s

95th percentile per-packet one-way delay: 5.659 ms

Loss rate: 9.92%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-10-03 00:16:29

End at: 2019-10-03 00:16:59

Local clock offset: 4.209 ms

Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2019-10-03 01:50:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 854.59 Mbit/s

95th percentile per-packet one-way delay: 29.419 ms

Loss rate: 7.14%

-- Flow 1:

Average throughput: 432.09 Mbit/s

95th percentile per-packet one-way delay: 32.640 ms

Loss rate: 5.69%

-- Flow 2:

Average throughput: 462.27 Mbit/s

95th percentile per-packet one-way delay: 6.246 ms

Loss rate: 6.61%

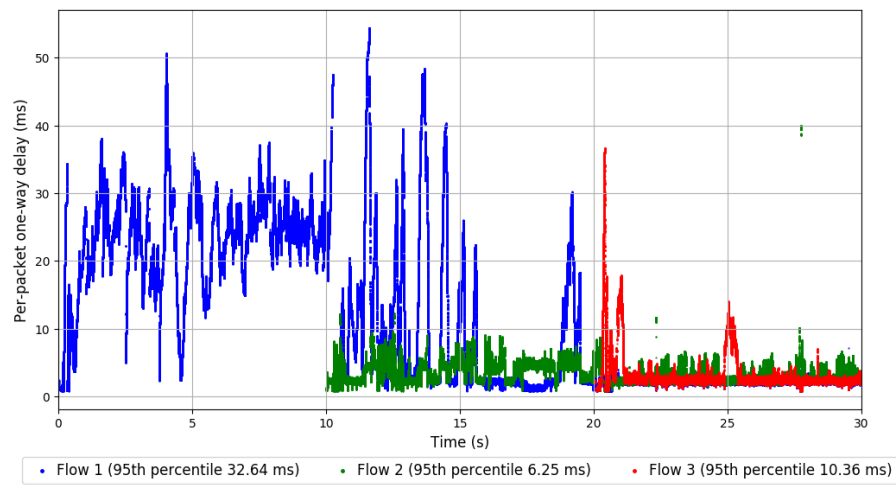
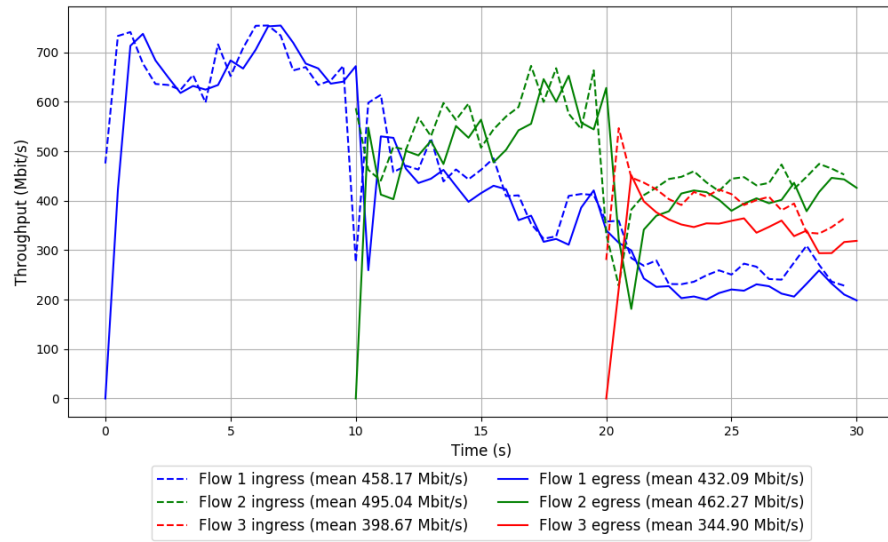
-- Flow 3:

Average throughput: 344.90 Mbit/s

95th percentile per-packet one-way delay: 10.364 ms

Loss rate: 13.48%

### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-10-03 00:51:58

End at: 2019-10-03 00:52:28

Local clock offset: 3.998 ms

Remote clock offset: 0.283 ms

# Below is generated by plot.py at 2019-10-03 01:50:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 842.15 Mbit/s

95th percentile per-packet one-way delay: 31.679 ms

Loss rate: 5.92%

-- Flow 1:

Average throughput: 489.09 Mbit/s

95th percentile per-packet one-way delay: 31.192 ms

Loss rate: 4.13%

-- Flow 2:

Average throughput: 331.61 Mbit/s

95th percentile per-packet one-way delay: 36.647 ms

Loss rate: 9.08%

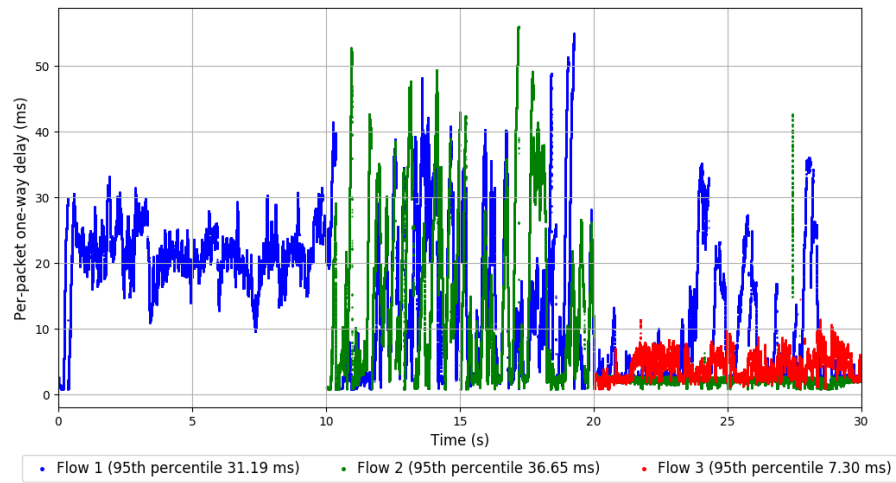
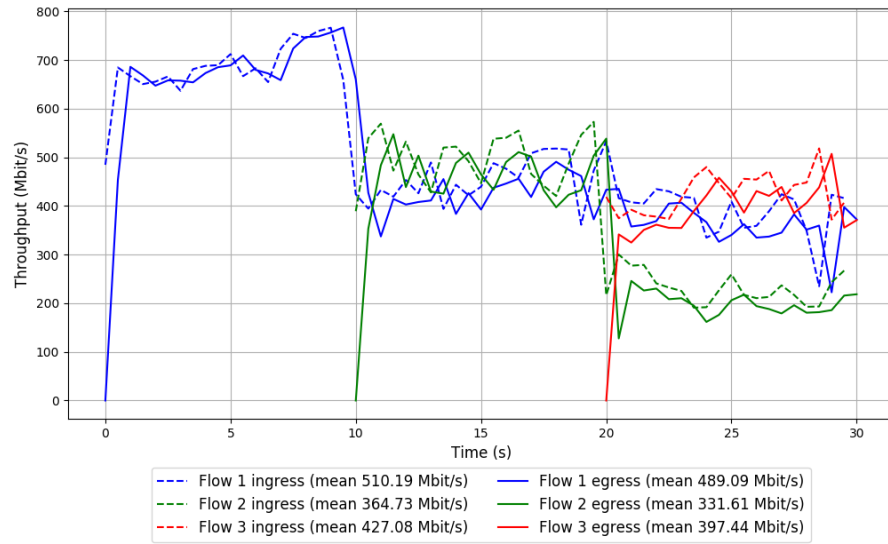
-- Flow 3:

Average throughput: 397.44 Mbit/s

95th percentile per-packet one-way delay: 7.298 ms

Loss rate: 6.92%

#### Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-10-03 01:26:50

End at: 2019-10-03 01:27:20

Local clock offset: 3.43 ms

Remote clock offset: 0.139 ms

# Below is generated by plot.py at 2019-10-03 01:50:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 835.35 Mbit/s

95th percentile per-packet one-way delay: 26.488 ms

Loss rate: 7.12%

-- Flow 1:

Average throughput: 460.93 Mbit/s

95th percentile per-packet one-way delay: 6.126 ms

Loss rate: 5.38%

-- Flow 2:

Average throughput: 401.95 Mbit/s

95th percentile per-packet one-way delay: 39.223 ms

Loss rate: 7.83%

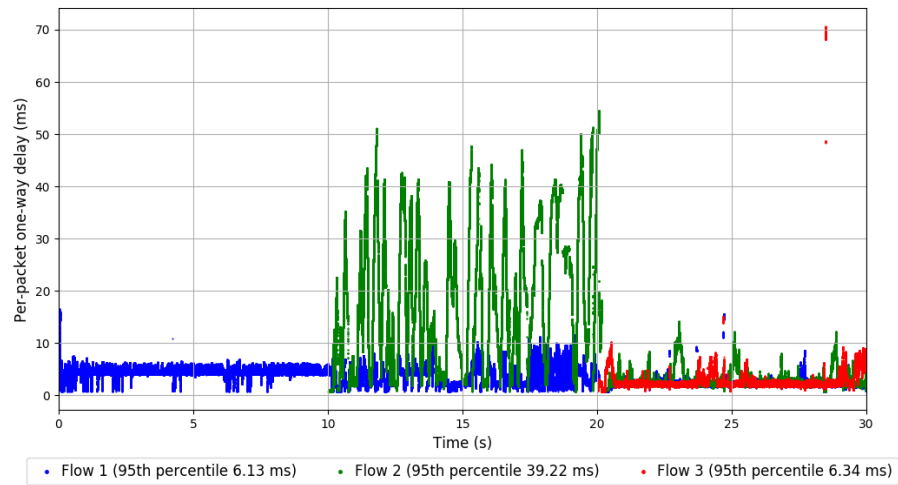
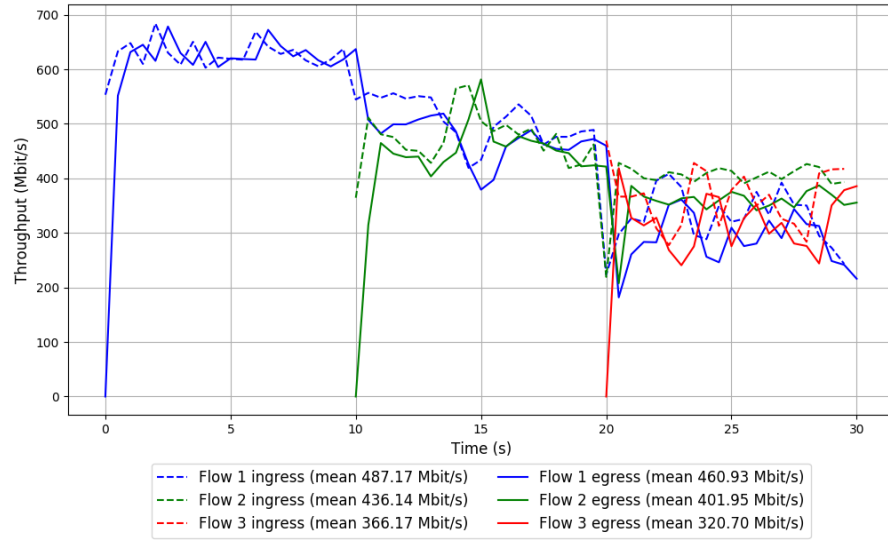
-- Flow 3:

Average throughput: 320.70 Mbit/s

95th percentile per-packet one-way delay: 6.338 ms

Loss rate: 12.40%

## Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-10-02 23:05:32

End at: 2019-10-02 23:06:02

Local clock offset: 2.859 ms

Remote clock offset: 0.754 ms

# Below is generated by plot.py at 2019-10-03 01:50:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.60 Mbit/s

95th percentile per-packet one-way delay: 1.197 ms

Loss rate: 62.91%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.060 ms

Loss rate: 98.60%

-- Flow 2:

Average throughput: 12.88 Mbit/s

95th percentile per-packet one-way delay: 1.195 ms

Loss rate: 62.89%

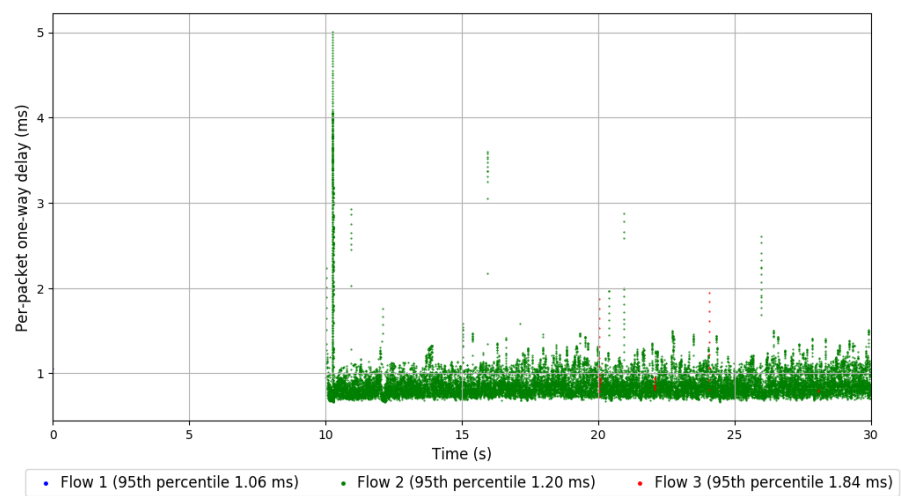
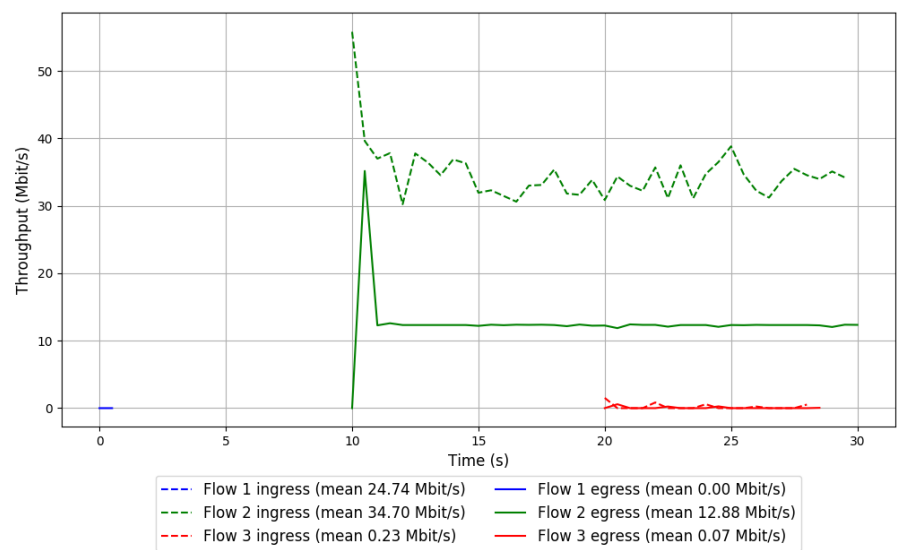
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 1.839 ms

Loss rate: 69.44%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-10-02 23:40:15

End at: 2019-10-02 23:40:45

Local clock offset: 3.995 ms

Remote clock offset: 0.26 ms

# Below is generated by plot.py at 2019-10-03 01:50:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.97 Mbit/s

95th percentile per-packet one-way delay: 1.205 ms

Loss rate: 58.72%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.083 ms

Loss rate: 97.24%

-- Flow 2:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 1.558 ms

Loss rate: 35.04%

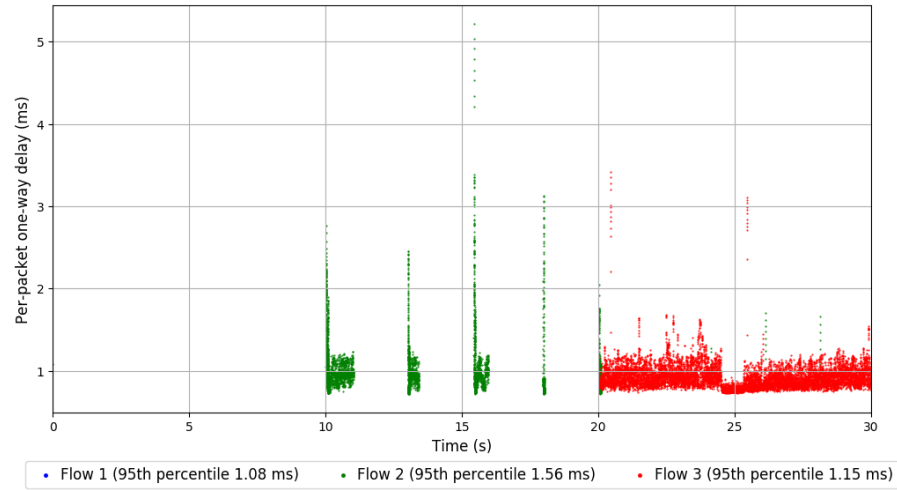
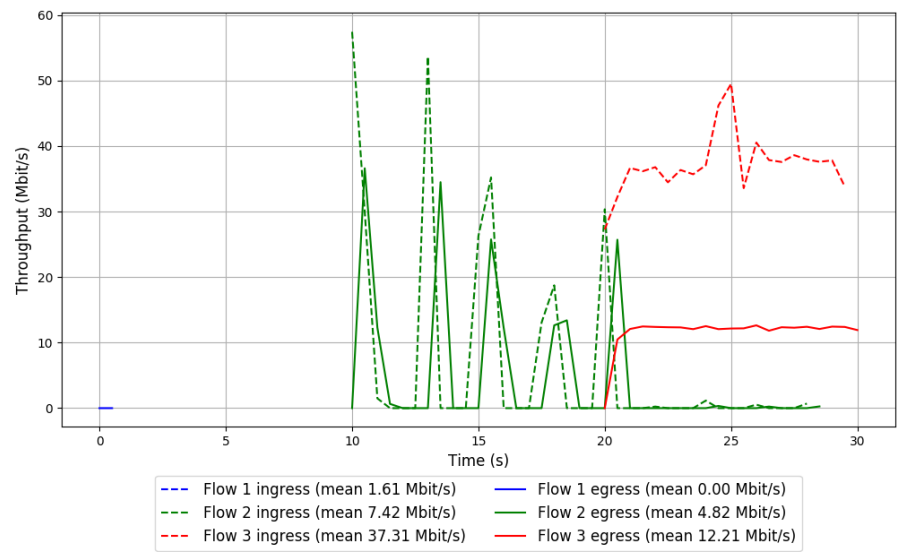
-- Flow 3:

Average throughput: 12.21 Mbit/s

95th percentile per-packet one-way delay: 1.146 ms

Loss rate: 67.27%

Run 2: Report of Copa — Data Link

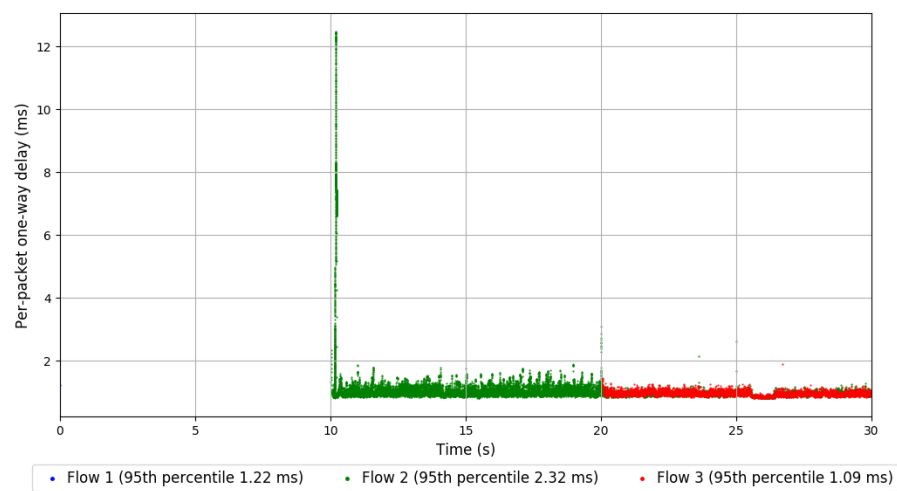
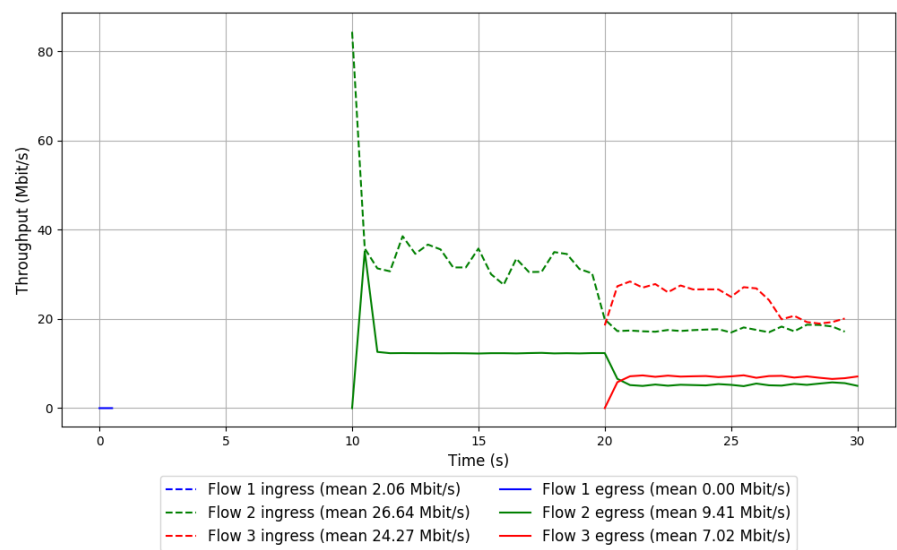


Run 3: Statistics of Copa

Start at: 2019-10-03 00:15:14  
End at: 2019-10-03 00:15:44  
Local clock offset: 4.178 ms  
Remote clock offset: 0.2 ms

# Below is generated by plot.py at 2019-10-03 01:50:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.60 Mbit/s  
95th percentile per-packet one-way delay: 1.481 ms  
Loss rate: 66.69%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1.223 ms  
Loss rate: 97.92%  
-- Flow 2:  
Average throughput: 9.41 Mbit/s  
95th percentile per-packet one-way delay: 2.318 ms  
Loss rate: 64.69%  
-- Flow 3:  
Average throughput: 7.02 Mbit/s  
95th percentile per-packet one-way delay: 1.090 ms  
Loss rate: 71.09%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-10-03 00:50:43

End at: 2019-10-03 00:51:13

Local clock offset: 4.017 ms

Remote clock offset: 0.285 ms

# Below is generated by plot.py at 2019-10-03 01:50:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 7.41 Mbit/s

95th percentile per-packet one-way delay: 1.657 ms

Loss rate: 56.15%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.165 ms

Loss rate: 97.92%

-- Flow 2:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 1.613 ms

Loss rate: 47.05%

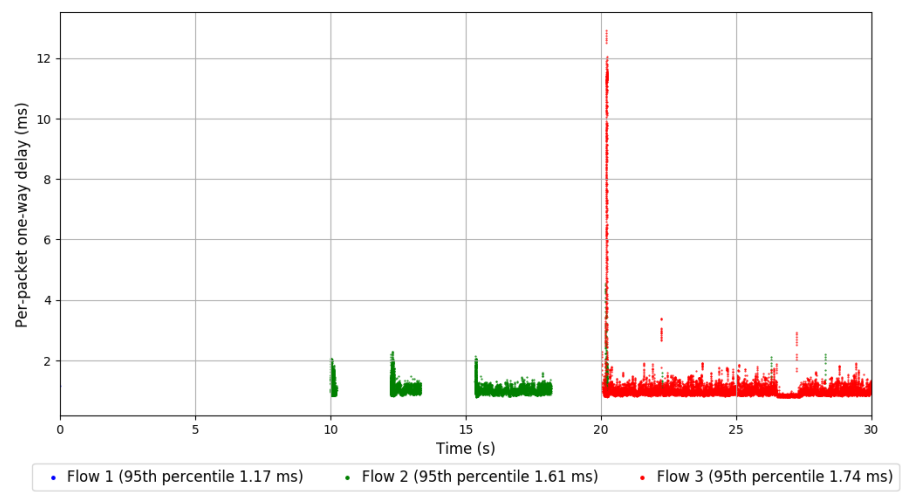
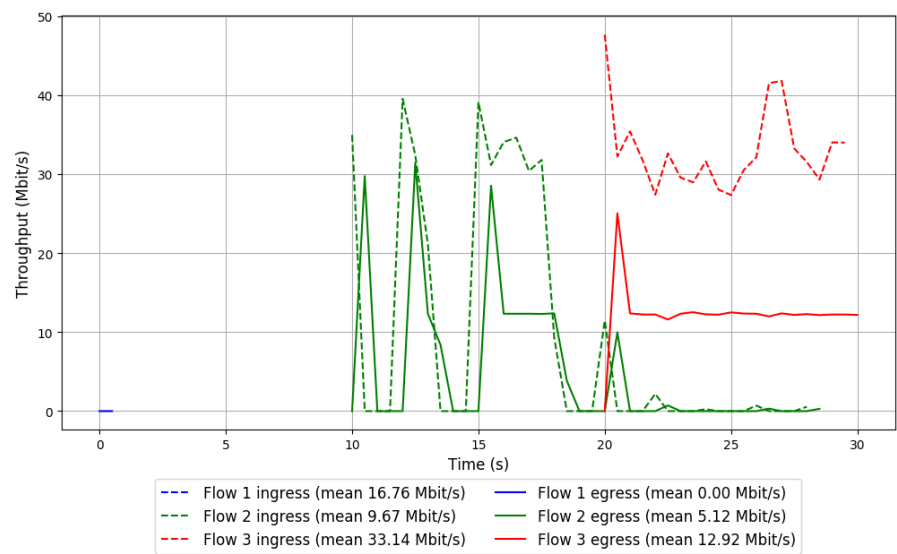
-- Flow 3:

Average throughput: 12.92 Mbit/s

95th percentile per-packet one-way delay: 1.739 ms

Loss rate: 61.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-10-03 01:25:35

End at: 2019-10-03 01:26:05

Local clock offset: 3.47 ms

Remote clock offset: 0.087 ms

# Below is generated by plot.py at 2019-10-03 01:50:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.76 Mbit/s

95th percentile per-packet one-way delay: 1.448 ms

Loss rate: 48.91%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.064 ms

Loss rate: 98.33%

-- Flow 2:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 1.426 ms

Loss rate: 49.40%

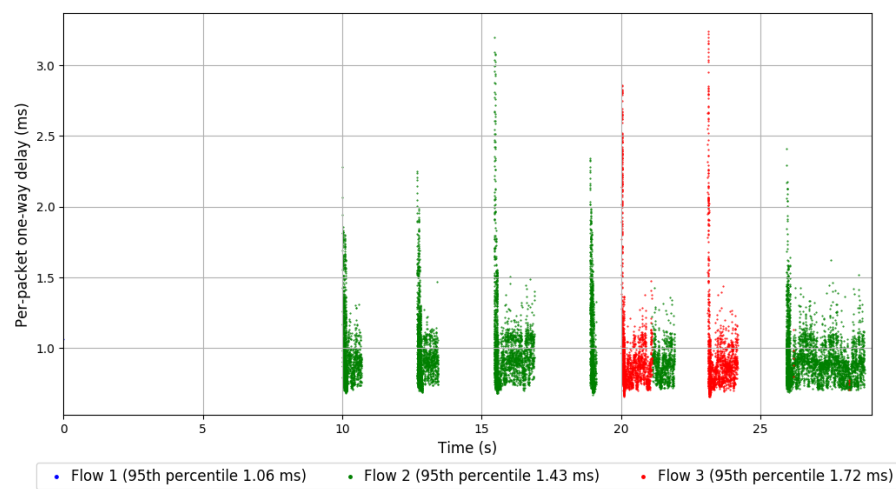
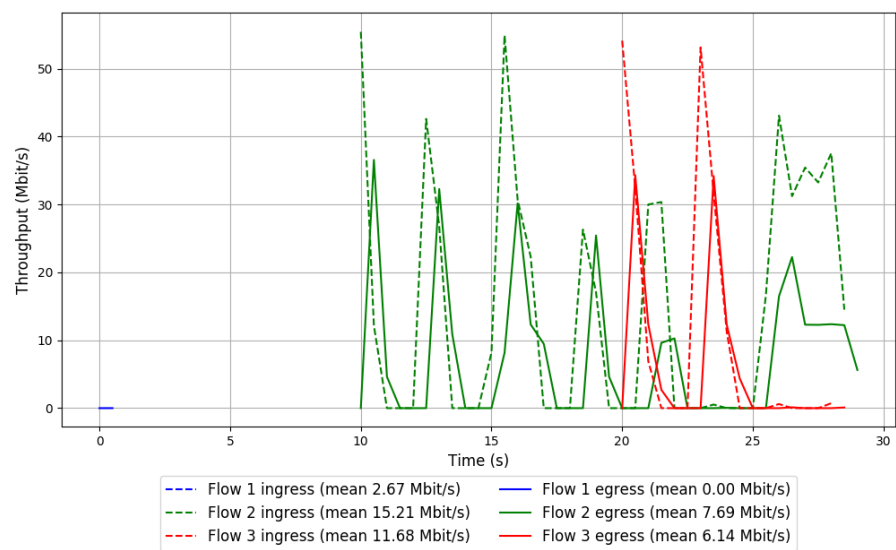
-- Flow 3:

Average throughput: 6.14 Mbit/s

95th percentile per-packet one-way delay: 1.722 ms

Loss rate: 47.41%

Run 5: Report of Copa — Data Link

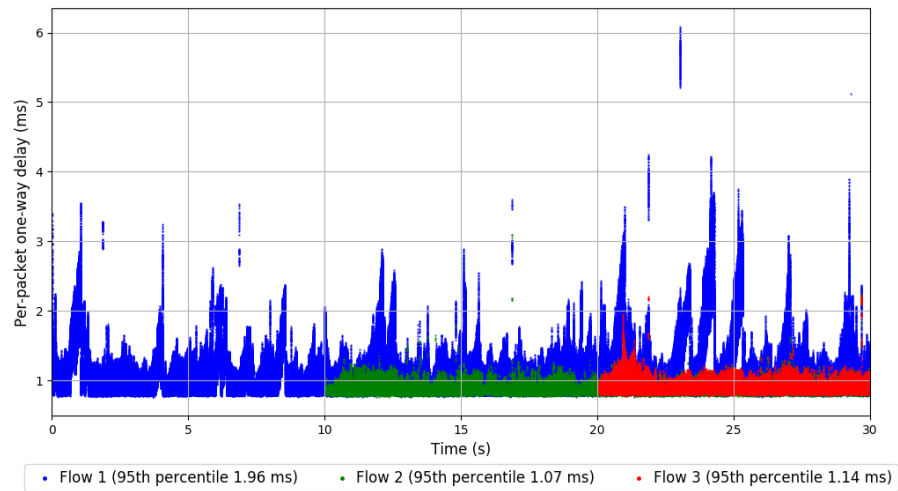
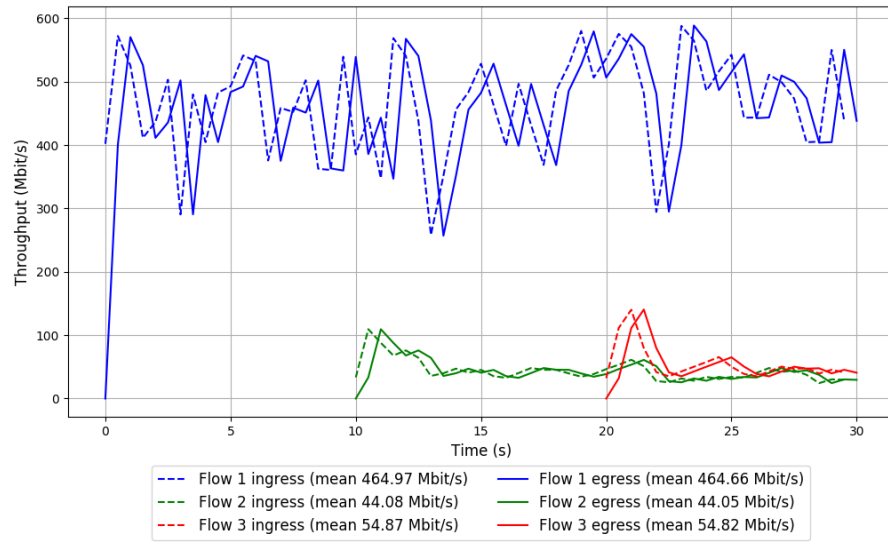


Run 1: Statistics of TCP Cubic

Start at: 2019-10-02 22:40:47  
End at: 2019-10-02 22:41:17  
Local clock offset: 2.632 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-10-03 01:50:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 512.23 Mbit/s  
95th percentile per-packet one-way delay: 1.917 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 464.66 Mbit/s  
95th percentile per-packet one-way delay: 1.959 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 44.05 Mbit/s  
95th percentile per-packet one-way delay: 1.075 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 54.82 Mbit/s  
95th percentile per-packet one-way delay: 1.139 ms  
Loss rate: 0.08%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-10-02 23:15:47

End at: 2019-10-02 23:16:17

Local clock offset: 2.775 ms

Remote clock offset: 1.107 ms

# Below is generated by plot.py at 2019-10-03 01:50:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 513.81 Mbit/s

95th percentile per-packet one-way delay: 2.818 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 53.87 Mbit/s

95th percentile per-packet one-way delay: 1.301 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 485.29 Mbit/s

95th percentile per-packet one-way delay: 3.024 ms

Loss rate: 0.05%

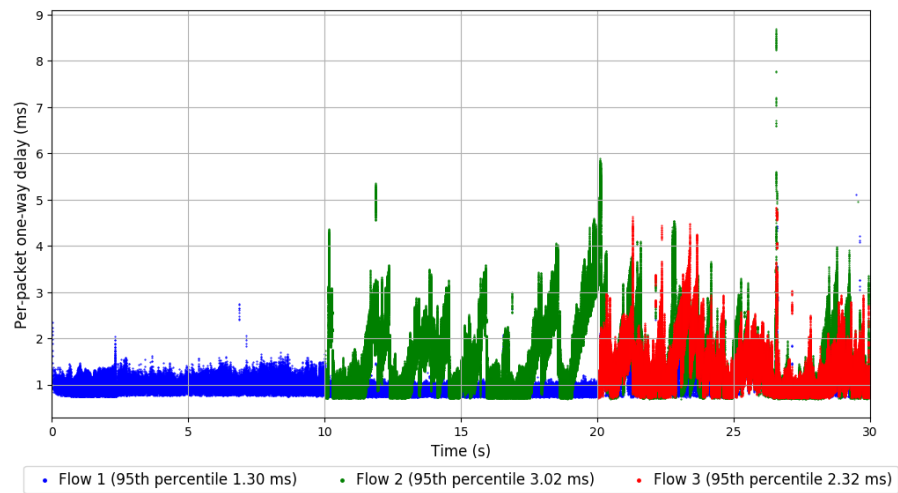
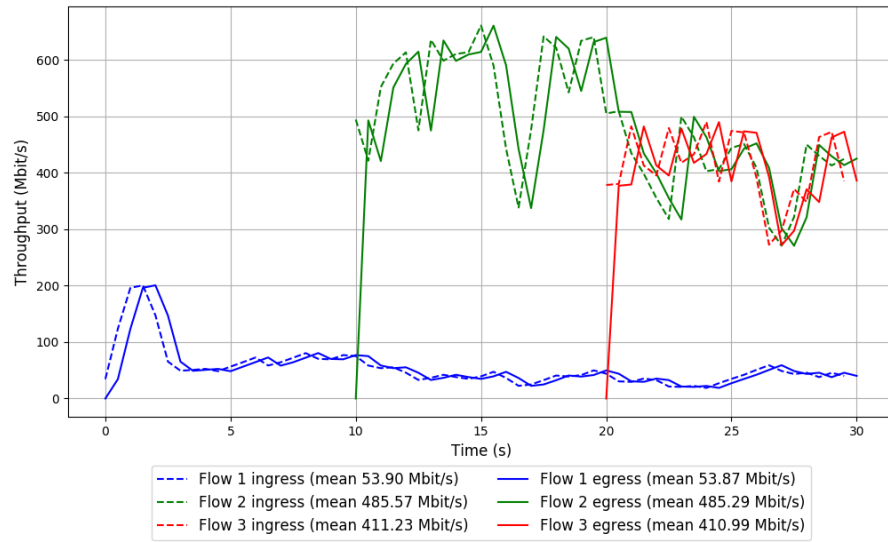
-- Flow 3:

Average throughput: 410.99 Mbit/s

95th percentile per-packet one-way delay: 2.316 ms

Loss rate: 0.06%

## Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-10-02 23:50:18

End at: 2019-10-02 23:50:49

Local clock offset: 4.383 ms

Remote clock offset: 0.333 ms

# Below is generated by plot.py at 2019-10-03 01:50:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 647.67 Mbit/s

95th percentile per-packet one-way delay: 4.319 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 149.94 Mbit/s

95th percentile per-packet one-way delay: 7.268 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 530.99 Mbit/s

95th percentile per-packet one-way delay: 4.466 ms

Loss rate: 0.03%

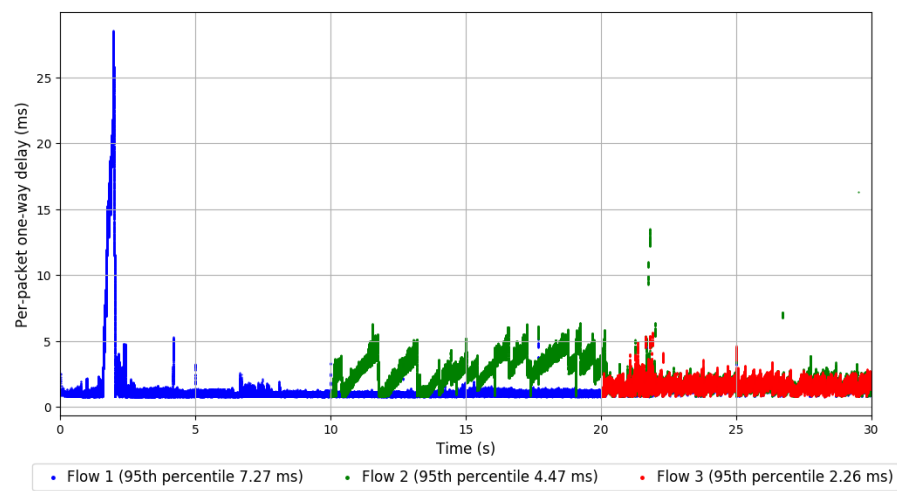
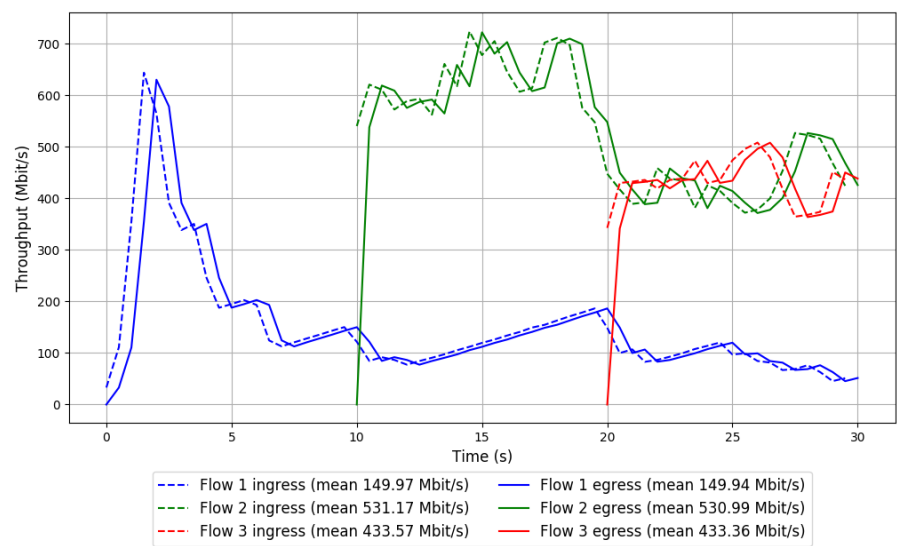
-- Flow 3:

Average throughput: 433.36 Mbit/s

95th percentile per-packet one-way delay: 2.263 ms

Loss rate: 0.04%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-10-03 00:25:25

End at: 2019-10-03 00:25:55

Local clock offset: 4.26 ms

Remote clock offset: 0.223 ms

# Below is generated by plot.py at 2019-10-03 01:55:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 822.70 Mbit/s

95th percentile per-packet one-way delay: 5.359 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 533.42 Mbit/s

95th percentile per-packet one-way delay: 5.976 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 409.00 Mbit/s

95th percentile per-packet one-way delay: 2.798 ms

Loss rate: 0.08%

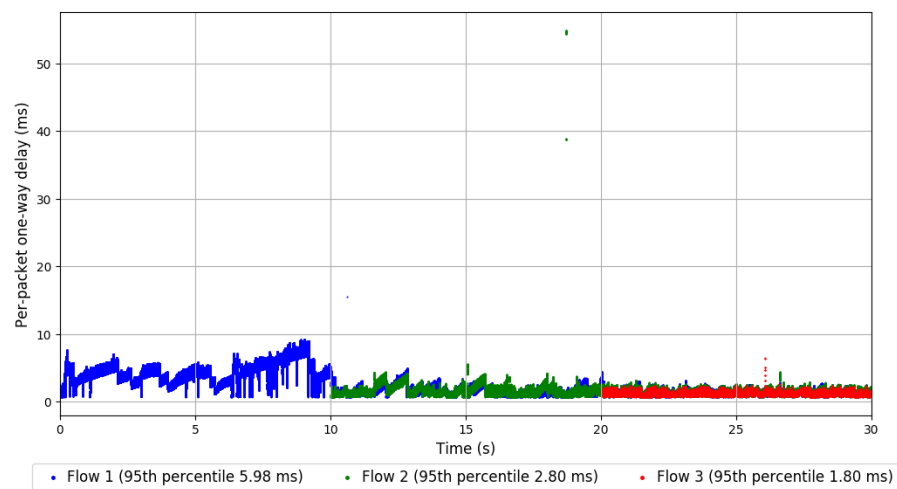
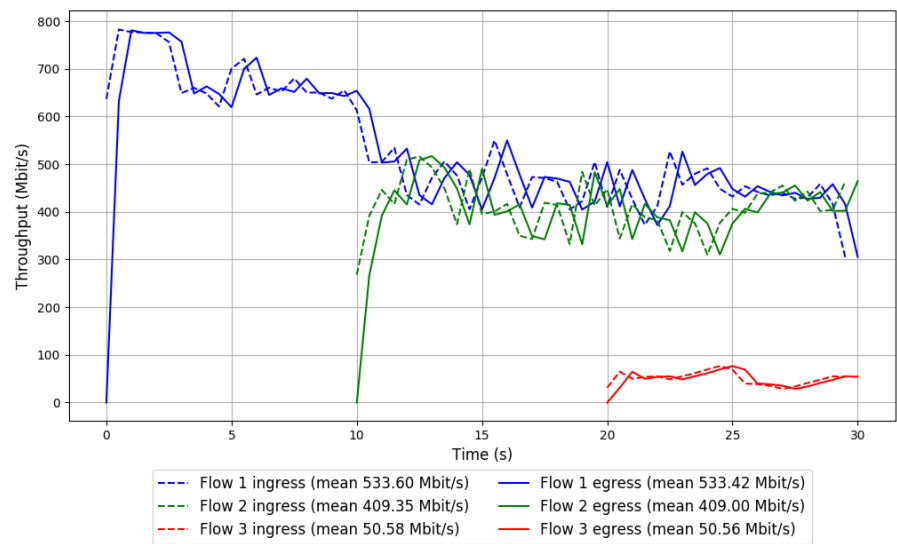
-- Flow 3:

Average throughput: 50.56 Mbit/s

95th percentile per-packet one-way delay: 1.805 ms

Loss rate: 0.03%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-10-03 01:00:46

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

Local clock offset: 3.92 ms

Remote clock offset: 0.257 ms

# Below is generated by plot.py at 2019-10-03 01:55:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 617.08 Mbit/s

95th percentile per-packet one-way delay: 3.928 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 118.09 Mbit/s

95th percentile per-packet one-way delay: 1.574 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 520.58 Mbit/s

95th percentile per-packet one-way delay: 4.234 ms

Loss rate: 0.07%

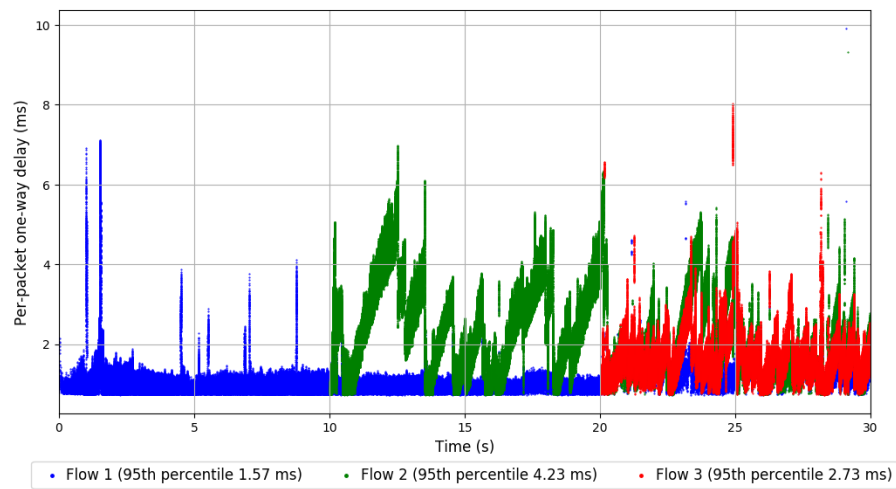
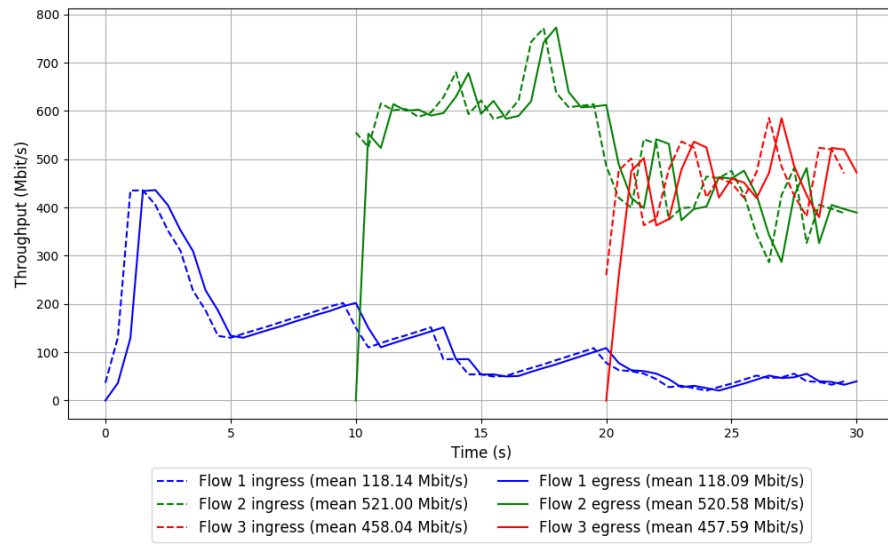
-- Flow 3:

Average throughput: 457.59 Mbit/s

95th percentile per-packet one-way delay: 2.730 ms

Loss rate: 0.08%

## Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-10-02 23:08:38

End at: 2019-10-02 23:09:08

Local clock offset: 2.819 ms

Remote clock offset: 0.884 ms

# Below is generated by plot.py at 2019-10-03 01:57:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 626.55 Mbit/s

95th percentile per-packet one-way delay: 35.724 ms

Loss rate: 9.46%

-- Flow 1:

Average throughput: 348.85 Mbit/s

95th percentile per-packet one-way delay: 34.608 ms

Loss rate: 7.29%

-- Flow 2:

Average throughput: 300.79 Mbit/s

95th percentile per-packet one-way delay: 34.276 ms

Loss rate: 8.64%

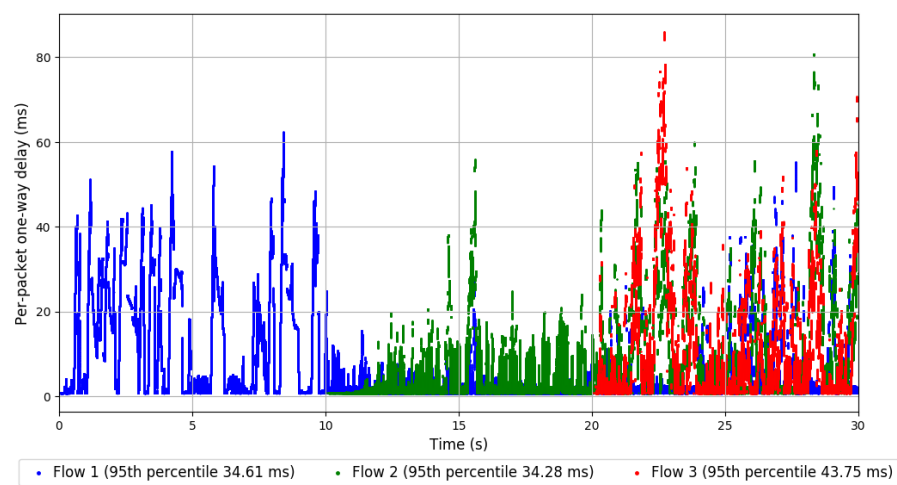
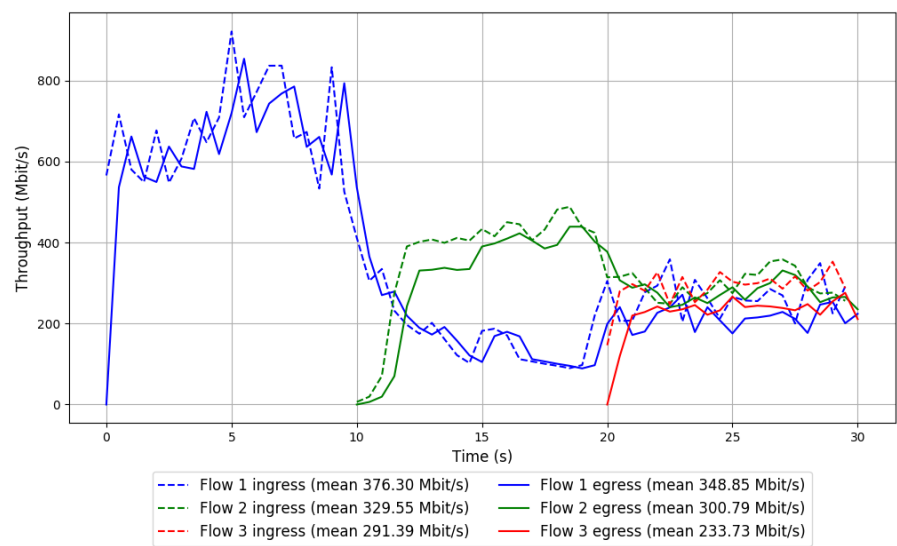
-- Flow 3:

Average throughput: 233.73 Mbit/s

95th percentile per-packet one-way delay: 43.753 ms

Loss rate: 19.73%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-10-02 23:43:20

End at: 2019-10-02 23:43:50

Local clock offset: 4.109 ms

Remote clock offset: 0.269 ms

# Below is generated by plot.py at 2019-10-03 01:58:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 567.52 Mbit/s

95th percentile per-packet one-way delay: 40.761 ms

Loss rate: 10.92%

-- Flow 1:

Average throughput: 387.07 Mbit/s

95th percentile per-packet one-way delay: 43.406 ms

Loss rate: 9.48%

-- Flow 2:

Average throughput: 243.73 Mbit/s

95th percentile per-packet one-way delay: 35.735 ms

Loss rate: 14.78%

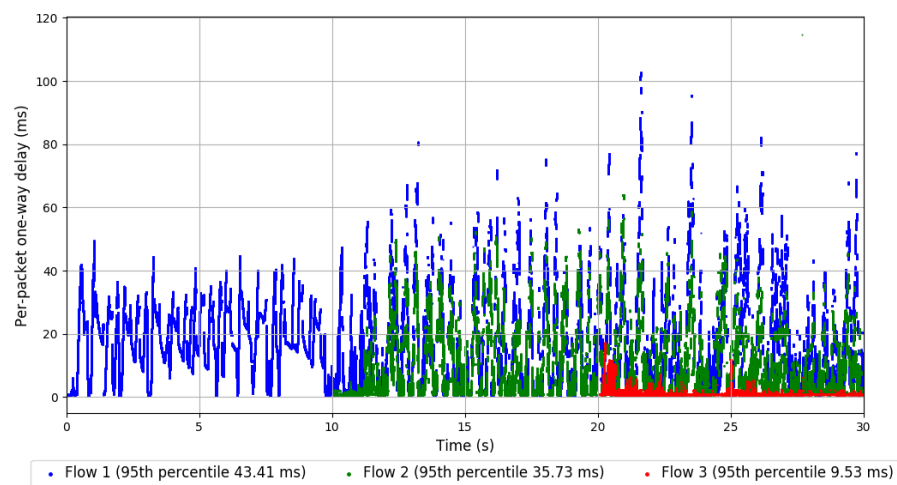
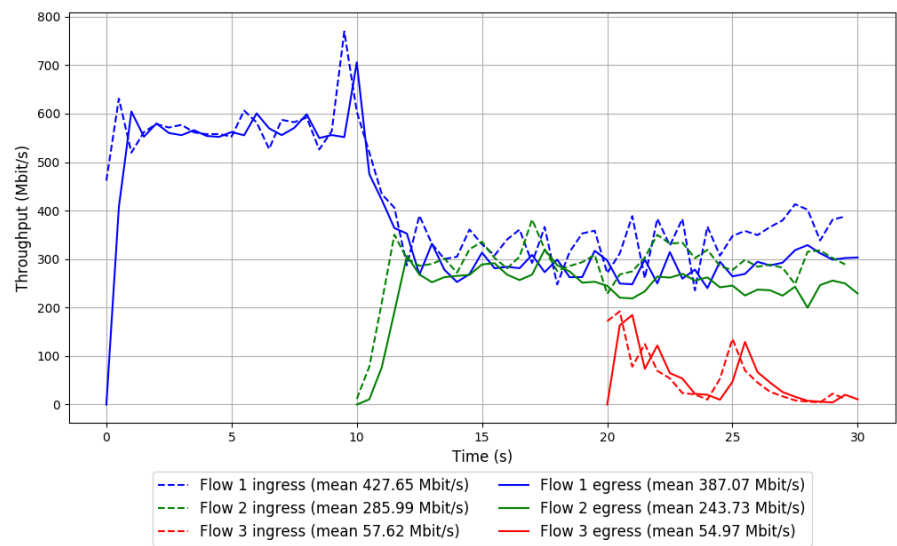
-- Flow 3:

Average throughput: 54.97 Mbit/s

95th percentile per-packet one-way delay: 9.530 ms

Loss rate: 4.60%

Run 2: Report of FillP — Data Link

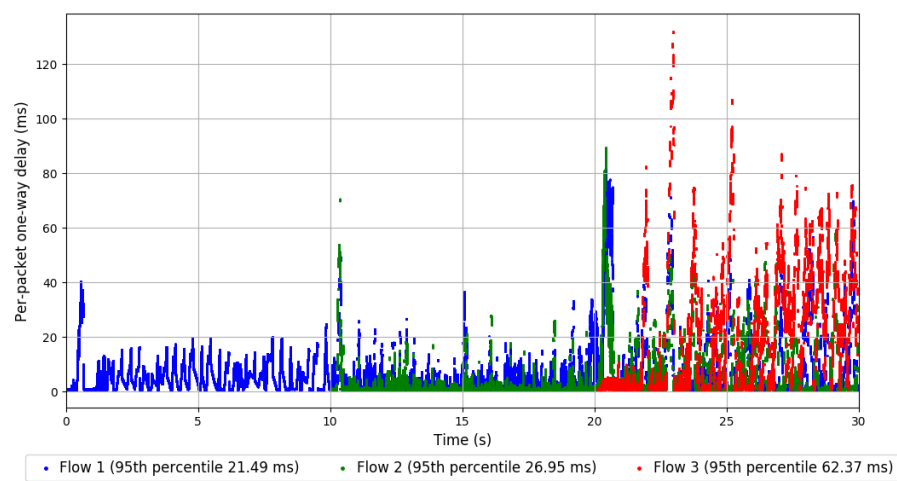
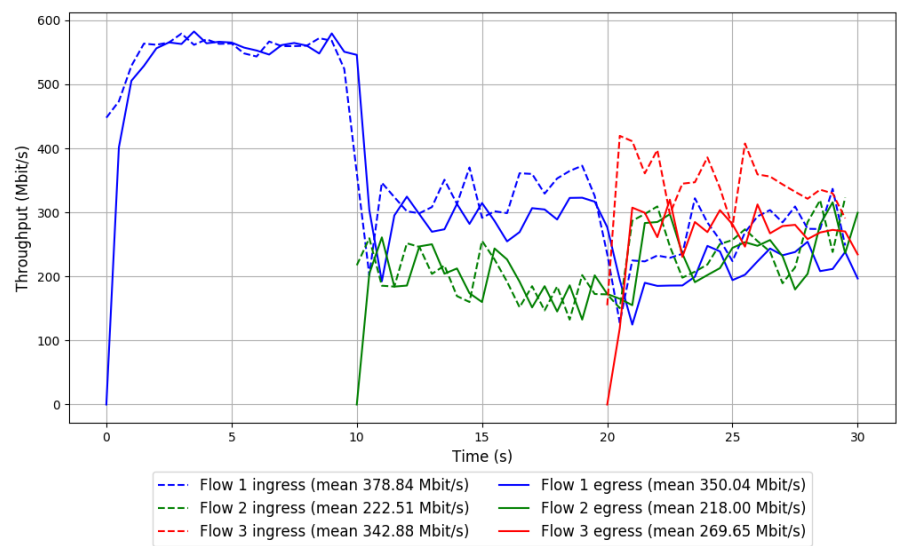


Run 3: Statistics of FillP

Start at: 2019-10-03 00:18:20  
End at: 2019-10-03 00:18:50  
Local clock offset: 4.246 ms  
Remote clock offset: 0.159 ms

# Below is generated by plot.py at 2019-10-03 01:58:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 584.69 Mbit/s  
95th percentile per-packet one-way delay: 37.763 ms  
Loss rate: 8.72%  
-- Flow 1:  
Average throughput: 350.04 Mbit/s  
95th percentile per-packet one-way delay: 21.493 ms  
Loss rate: 7.60%  
-- Flow 2:  
Average throughput: 218.00 Mbit/s  
95th percentile per-packet one-way delay: 26.955 ms  
Loss rate: 1.99%  
-- Flow 3:  
Average throughput: 269.65 Mbit/s  
95th percentile per-packet one-way delay: 62.367 ms  
Loss rate: 21.20%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-10-03 00:53:48

End at: 2019-10-03 00:54:18

Local clock offset: 4.006 ms

Remote clock offset: 0.262 ms

# Below is generated by plot.py at 2019-10-03 01:58:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 584.98 Mbit/s

95th percentile per-packet one-way delay: 35.934 ms

Loss rate: 3.21%

-- Flow 1:

Average throughput: 369.66 Mbit/s

95th percentile per-packet one-way delay: 27.594 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 305.07 Mbit/s

95th percentile per-packet one-way delay: 45.704 ms

Loss rate: 6.95%

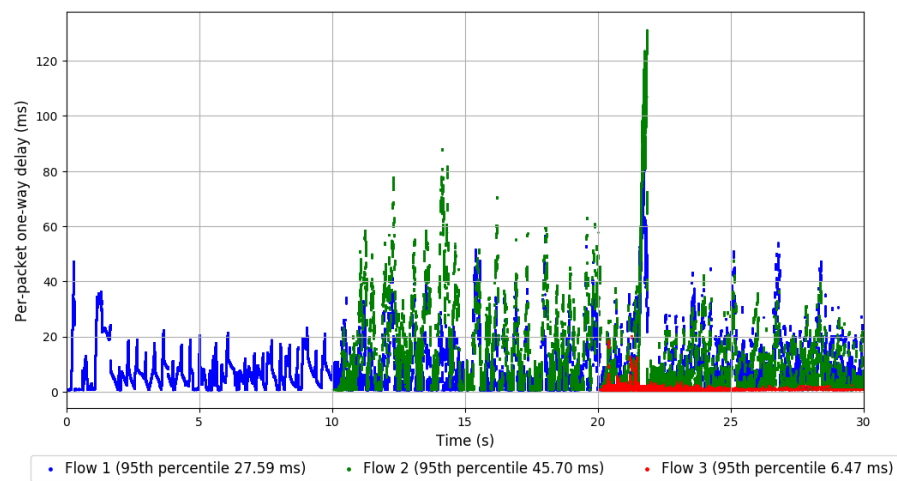
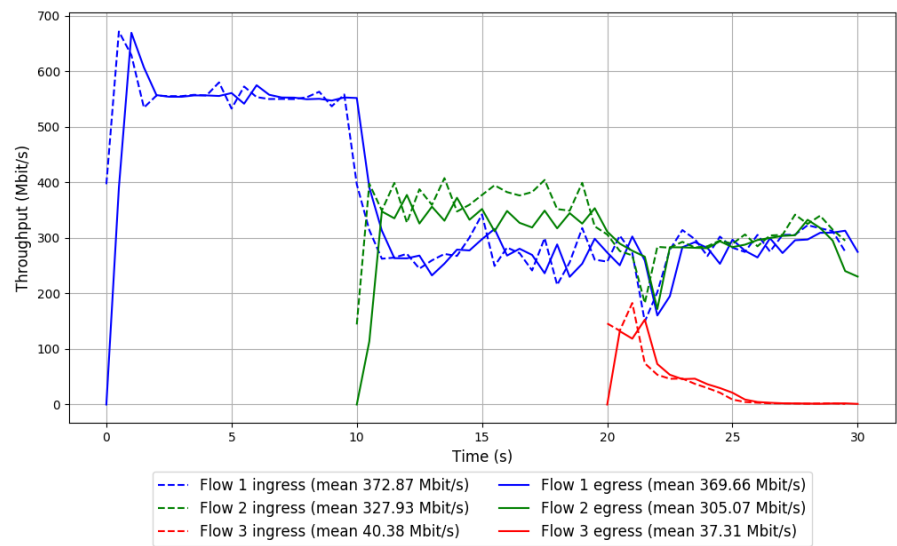
-- Flow 3:

Average throughput: 37.31 Mbit/s

95th percentile per-packet one-way delay: 6.471 ms

Loss rate: 7.60%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-10-03 01:28:40

End at: 2019-10-03 01:29:10

Local clock offset: 3.382 ms

Remote clock offset: 0.158 ms

# Below is generated by plot.py at 2019-10-03 01:58:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 553.91 Mbit/s

95th percentile per-packet one-way delay: 37.734 ms

Loss rate: 10.71%

-- Flow 1:

Average throughput: 391.58 Mbit/s

95th percentile per-packet one-way delay: 37.617 ms

Loss rate: 8.89%

-- Flow 2:

Average throughput: 123.82 Mbit/s

95th percentile per-packet one-way delay: 28.337 ms

Loss rate: 12.57%

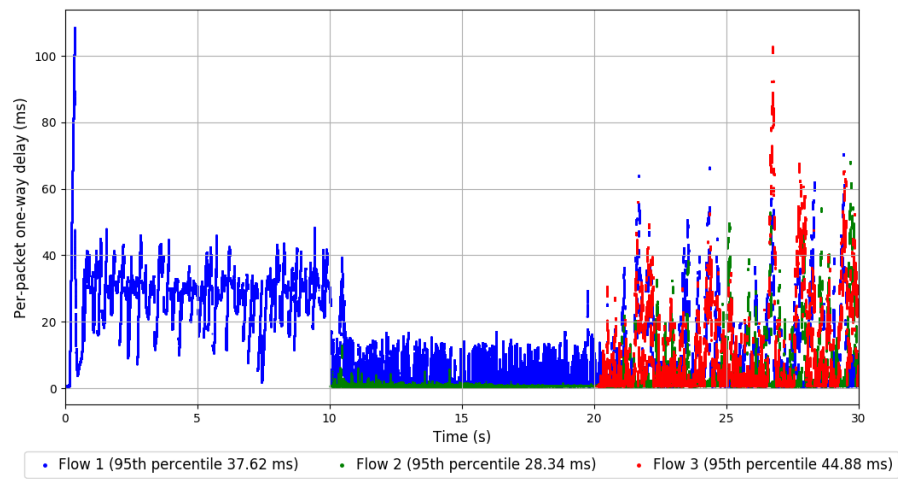
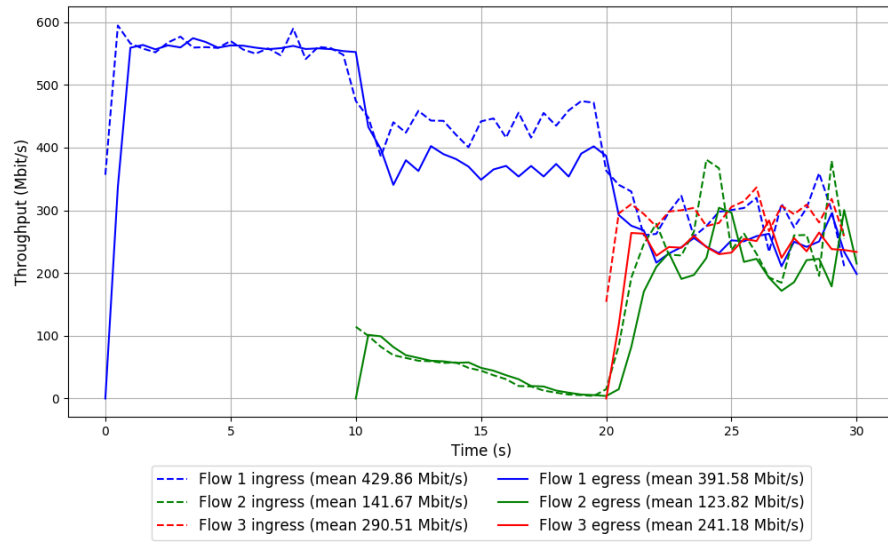
-- Flow 3:

Average throughput: 241.18 Mbit/s

95th percentile per-packet one-way delay: 44.878 ms

Loss rate: 16.98%

## Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-10-02 22:48:16

End at: 2019-10-02 22:48:46

Local clock offset: 2.733 ms

Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2019-10-03 01:59:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 615.10 Mbit/s

95th percentile per-packet one-way delay: 17.037 ms

Loss rate: 9.39%

-- Flow 1:

Average throughput: 406.91 Mbit/s

95th percentile per-packet one-way delay: 20.958 ms

Loss rate: 7.15%

-- Flow 2:

Average throughput: 221.01 Mbit/s

95th percentile per-packet one-way delay: 10.151 ms

Loss rate: 12.04%

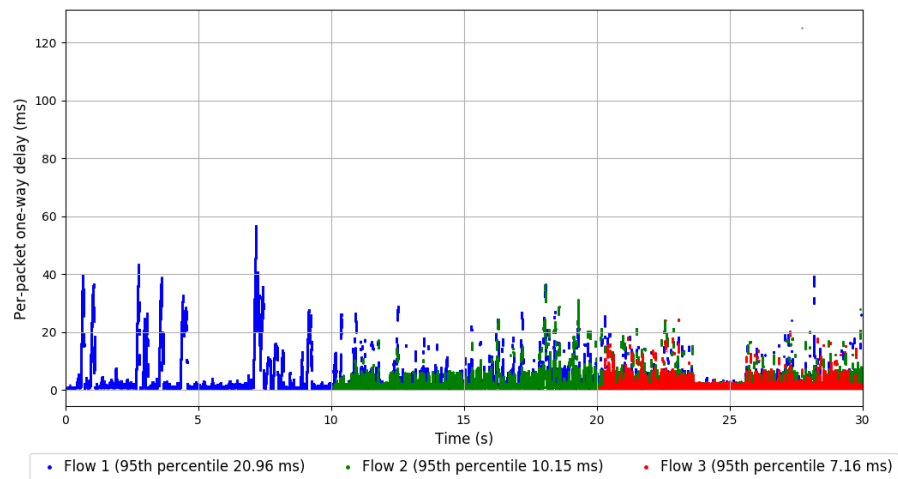
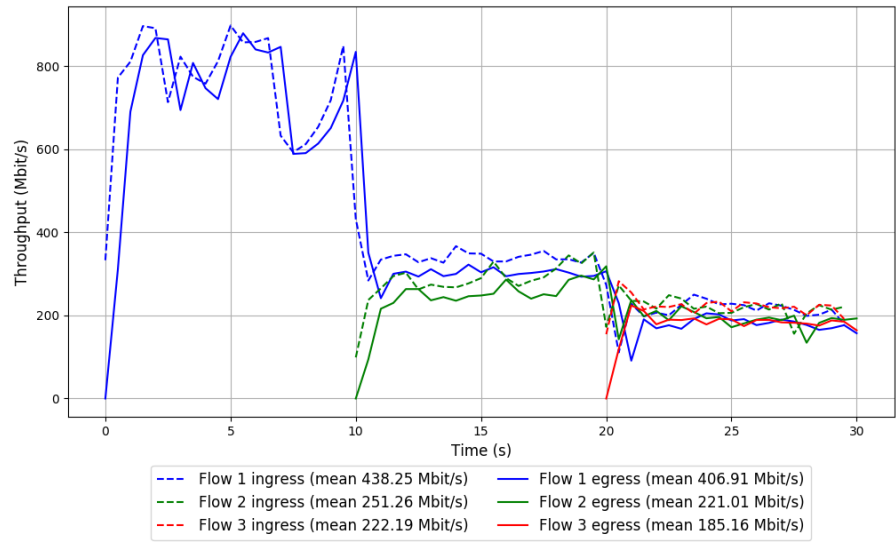
-- Flow 3:

Average throughput: 185.16 Mbit/s

95th percentile per-packet one-way delay: 7.156 ms

Loss rate: 16.70%

## Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-10-02 23:22:56

End at: 2019-10-02 23:23:26

Local clock offset: 2.714 ms

Remote clock offset: 0.921 ms

# Below is generated by plot.py at 2019-10-03 02:00:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 539.39 Mbit/s

95th percentile per-packet one-way delay: 18.011 ms

Loss rate: 4.84%

-- Flow 1:

Average throughput: 375.23 Mbit/s

95th percentile per-packet one-way delay: 19.117 ms

Loss rate: 2.06%

-- Flow 2:

Average throughput: 237.54 Mbit/s

95th percentile per-packet one-way delay: 14.906 ms

Loss rate: 10.92%

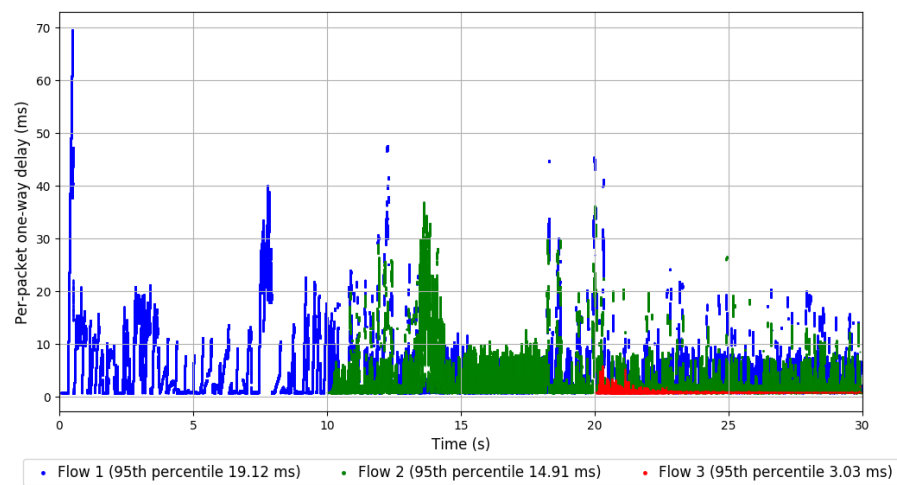
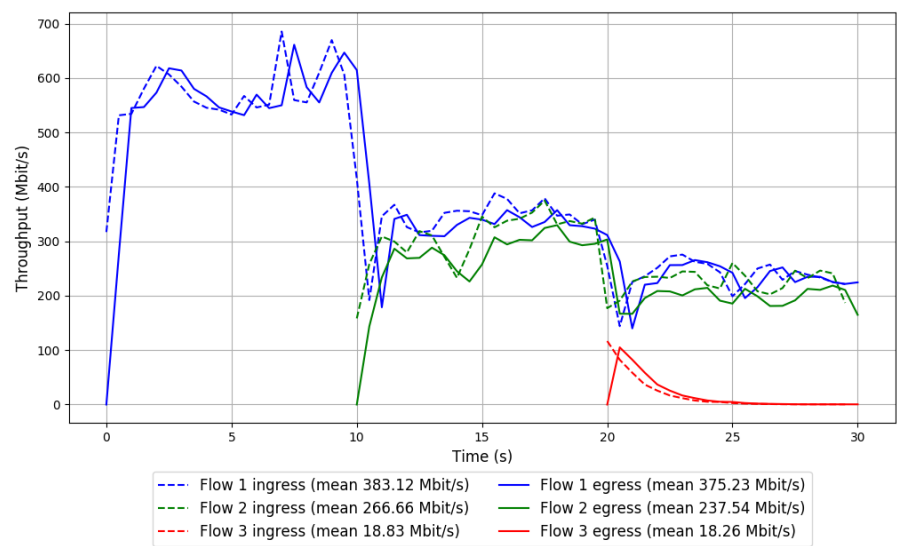
-- Flow 3:

Average throughput: 18.26 Mbit/s

95th percentile per-packet one-way delay: 3.026 ms

Loss rate: 3.03%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-10-02 23:57:54

End at: 2019-10-02 23:58:24

Local clock offset: 4.36 ms

Remote clock offset: 0.285 ms

# Below is generated by plot.py at 2019-10-03 02:01:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 387.69 Mbit/s

95th percentile per-packet one-way delay: 9.543 ms

Loss rate: 6.67%

-- Flow 1:

Average throughput: 227.90 Mbit/s

95th percentile per-packet one-way delay: 10.220 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 228.17 Mbit/s

95th percentile per-packet one-way delay: 8.338 ms

Loss rate: 14.81%

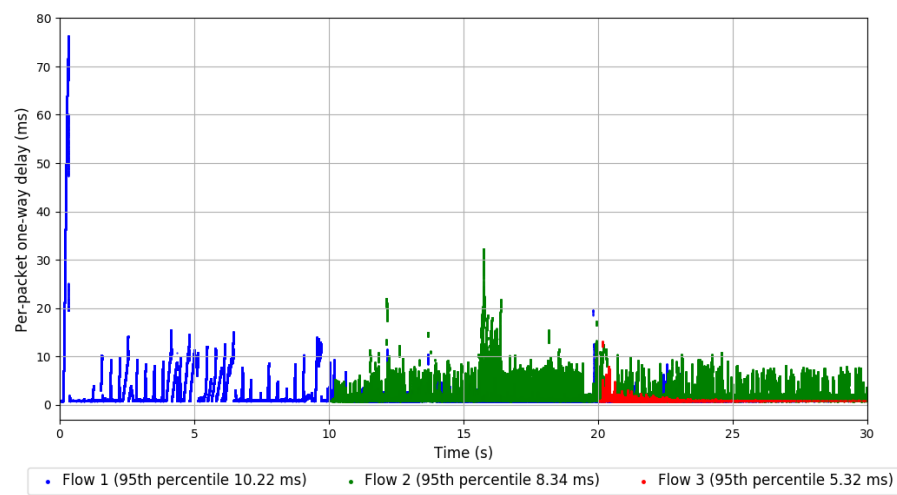
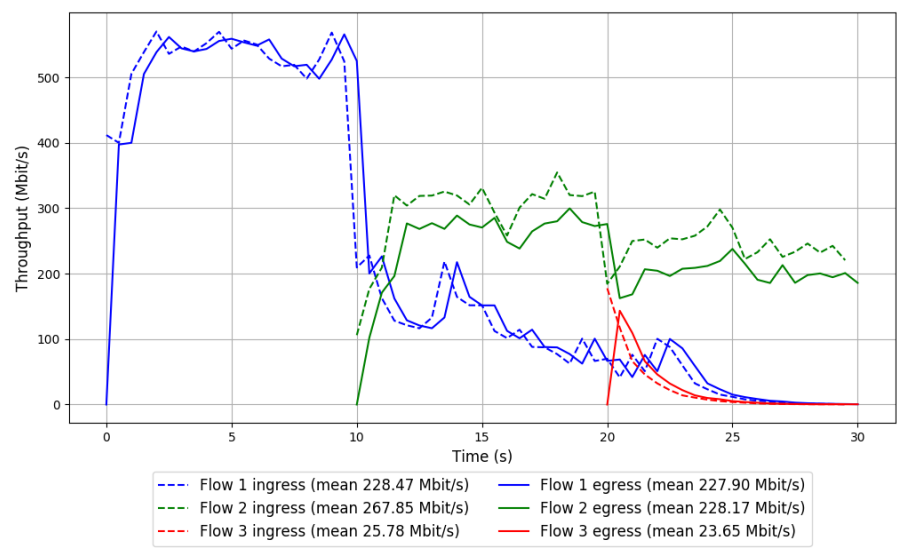
-- Flow 3:

Average throughput: 23.65 Mbit/s

95th percentile per-packet one-way delay: 5.322 ms

Loss rate: 8.28%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-10-03 00:33:10

End at: 2019-10-03 00:33:40

Local clock offset: 4.087 ms

Remote clock offset: 0.193 ms

# Below is generated by plot.py at 2019-10-03 02:03:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 476.24 Mbit/s

95th percentile per-packet one-way delay: 12.126 ms

Loss rate: 2.98%

-- Flow 1:

Average throughput: 370.74 Mbit/s

95th percentile per-packet one-way delay: 13.087 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 57.74 Mbit/s

95th percentile per-packet one-way delay: 4.325 ms

Loss rate: 0.98%

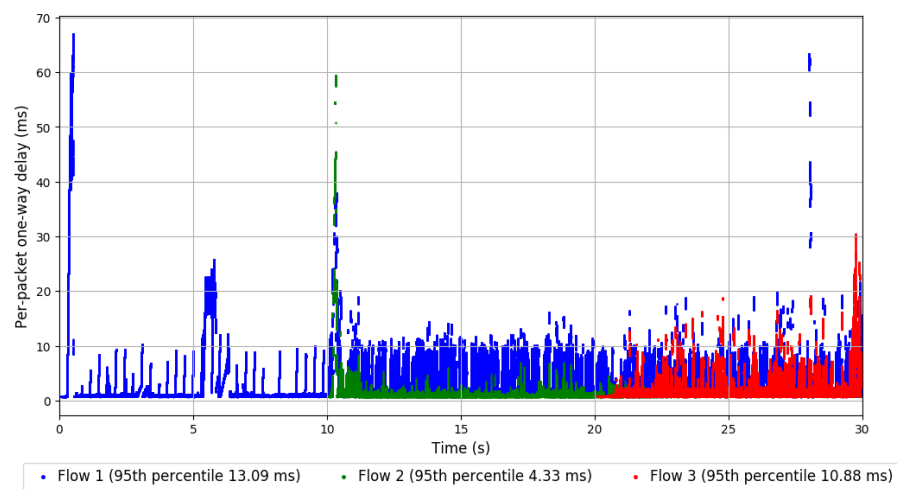
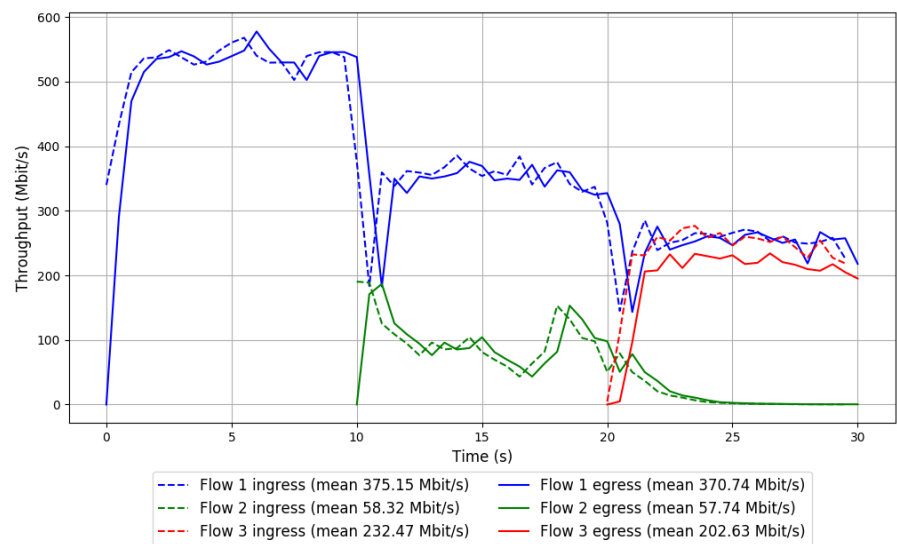
-- Flow 3:

Average throughput: 202.63 Mbit/s

95th percentile per-packet one-way delay: 10.882 ms

Loss rate: 12.79%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-10-03 01:08:31

End at: 2019-10-03 01:09:01

Local clock offset: 3.829 ms

Remote clock offset: 0.217 ms

# Below is generated by plot.py at 2019-10-03 02:03:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 312.75 Mbit/s

95th percentile per-packet one-way delay: 8.707 ms

Loss rate: 5.11%

-- Flow 1:

Average throughput: 216.86 Mbit/s

95th percentile per-packet one-way delay: 9.187 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 28.60 Mbit/s

95th percentile per-packet one-way delay: 4.498 ms

Loss rate: 0.30%

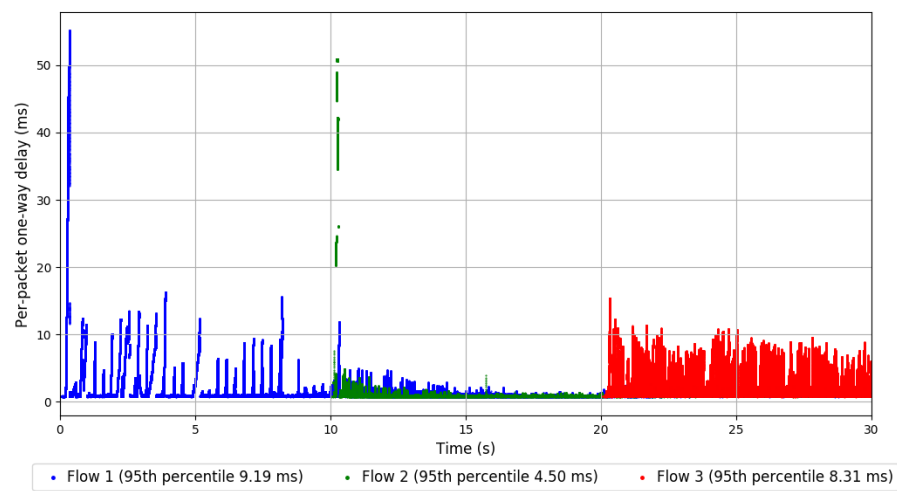
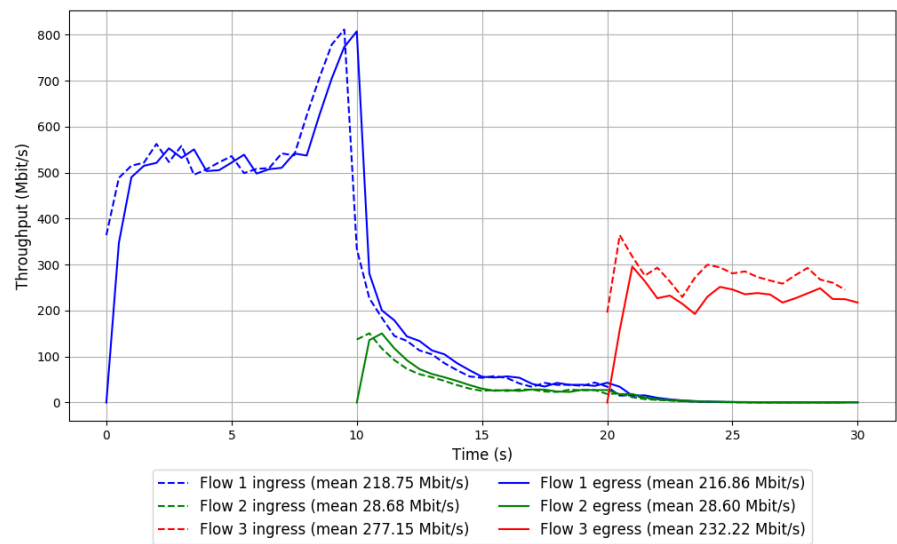
-- Flow 3:

Average throughput: 232.22 Mbit/s

95th percentile per-packet one-way delay: 8.307 ms

Loss rate: 16.19%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-10-02 22:53:35

End at: 2019-10-02 22:54:05

Local clock offset: 2.812 ms

Remote clock offset: 0.369 ms

# Below is generated by plot.py at 2019-10-03 02:03:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 391.21 Mbit/s

95th percentile per-packet one-way delay: 1.954 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 208.29 Mbit/s

95th percentile per-packet one-way delay: 1.348 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 182.40 Mbit/s

95th percentile per-packet one-way delay: 1.644 ms

Loss rate: 0.03%

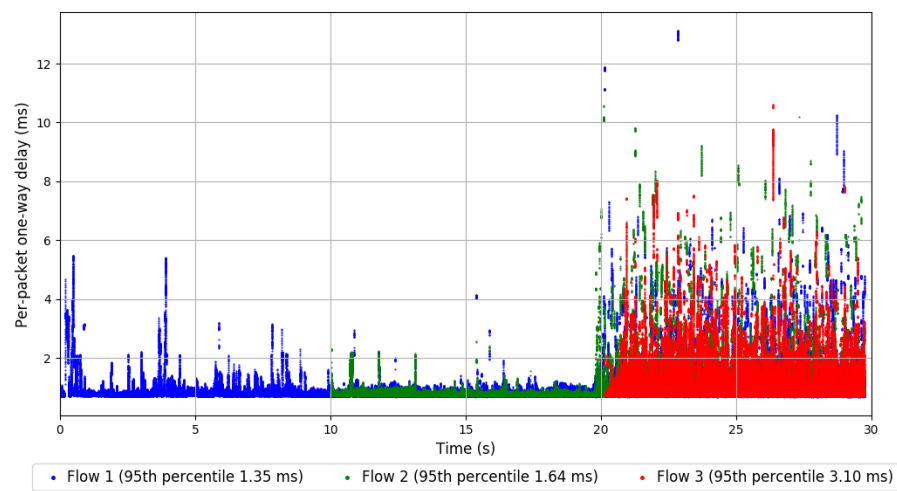
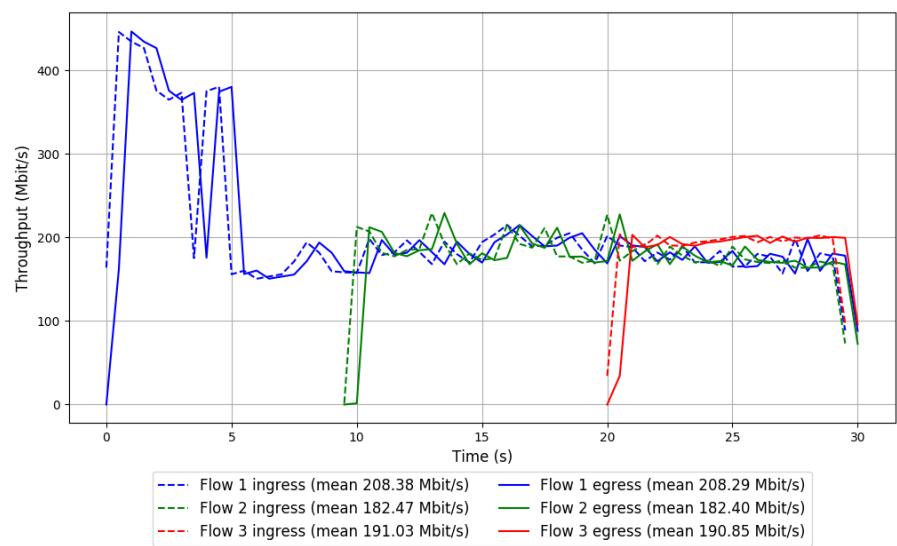
-- Flow 3:

Average throughput: 190.85 Mbit/s

95th percentile per-packet one-way delay: 3.105 ms

Loss rate: 0.08%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-10-02 23:28:25

End at: 2019-10-02 23:28:55

Local clock offset: 3.197 ms

Remote clock offset: 0.569 ms

# Below is generated by plot.py at 2019-10-03 02:03:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 383.43 Mbit/s

95th percentile per-packet one-way delay: 2.637 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 196.86 Mbit/s

95th percentile per-packet one-way delay: 1.741 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 189.73 Mbit/s

95th percentile per-packet one-way delay: 2.982 ms

Loss rate: 0.00%

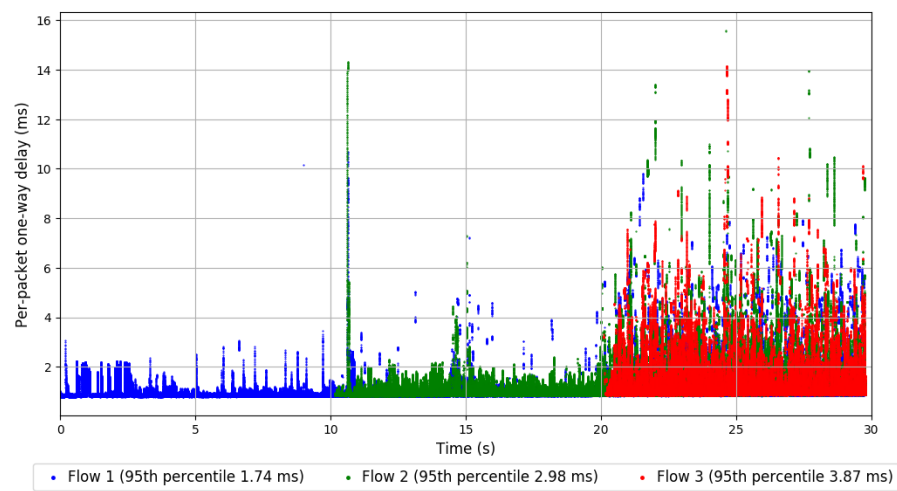
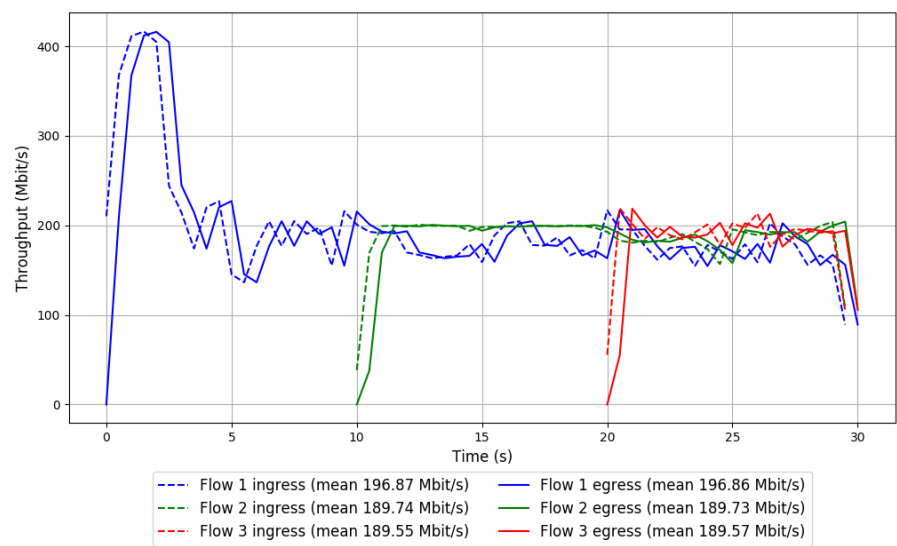
-- Flow 3:

Average throughput: 189.57 Mbit/s

95th percentile per-packet one-way delay: 3.868 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-10-03 00:03:17

End at: 2019-10-03 00:03:47

Local clock offset: 4.219 ms

Remote clock offset: 0.184 ms

# Below is generated by plot.py at 2019-10-03 02:03:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 388.21 Mbit/s

95th percentile per-packet one-way delay: 2.720 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 198.36 Mbit/s

95th percentile per-packet one-way delay: 1.419 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 197.90 Mbit/s

95th percentile per-packet one-way delay: 3.274 ms

Loss rate: 0.01%

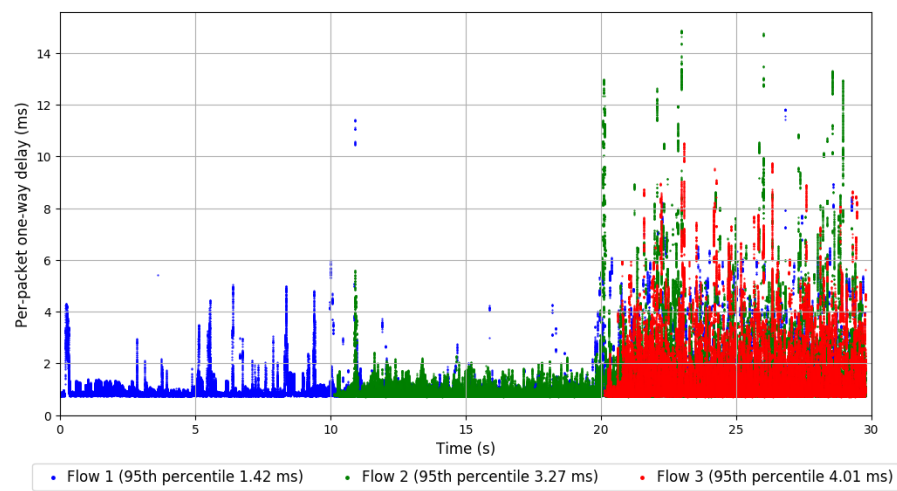
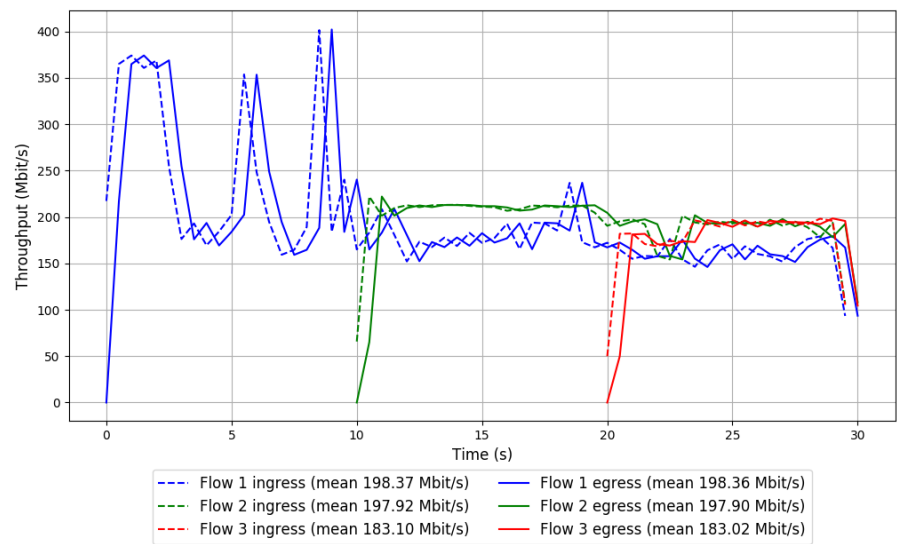
-- Flow 3:

Average throughput: 183.02 Mbit/s

95th percentile per-packet one-way delay: 4.014 ms

Loss rate: 0.04%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-10-03 00:38:32

End at: 2019-10-03 00:39:02

Local clock offset: 4.059 ms

Remote clock offset: 0.251 ms

# Below is generated by plot.py at 2019-10-03 02:03:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 379.58 Mbit/s

95th percentile per-packet one-way delay: 2.607 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 200.32 Mbit/s

95th percentile per-packet one-way delay: 2.933 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 183.43 Mbit/s

95th percentile per-packet one-way delay: 1.975 ms

Loss rate: 0.01%

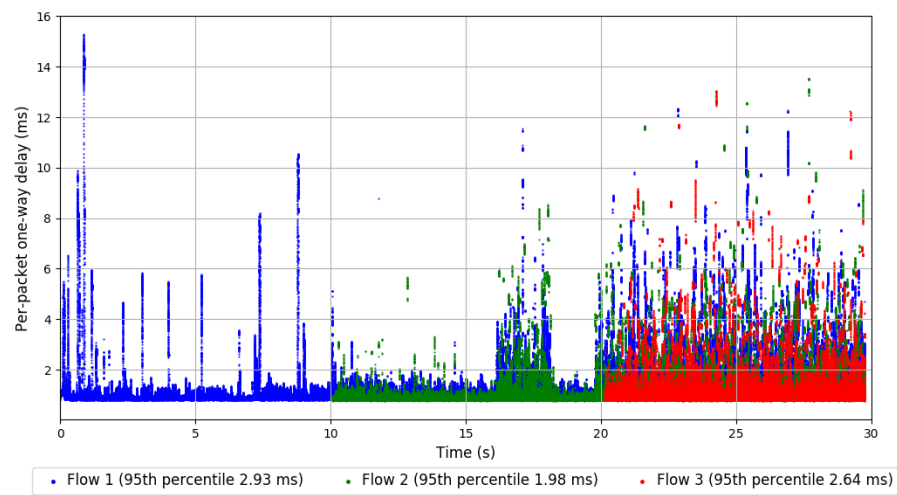
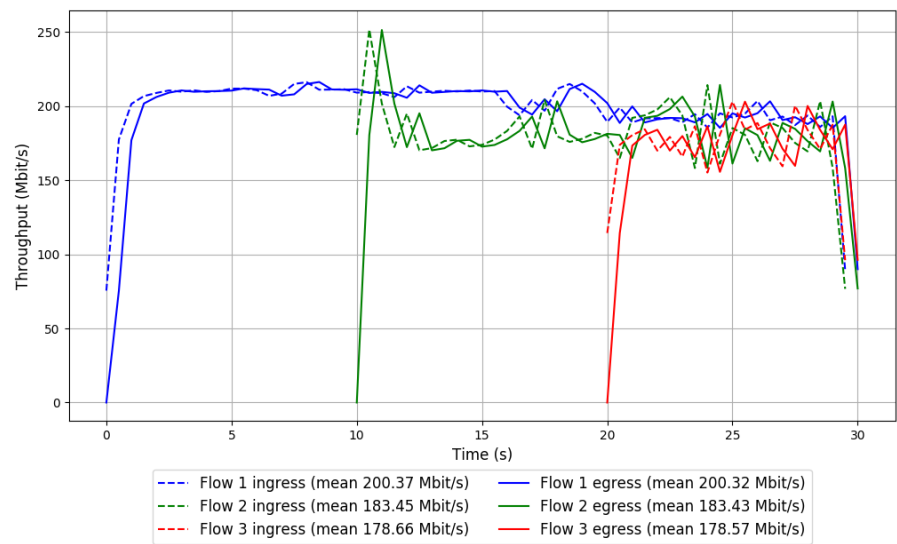
-- Flow 3:

Average throughput: 178.57 Mbit/s

95th percentile per-packet one-way delay: 2.637 ms

Loss rate: 0.02%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-10-03 01:13:47

End at: 2019-10-03 01:14:17

Local clock offset: 3.754 ms

Remote clock offset: 0.135 ms

# Below is generated by plot.py at 2019-10-03 02:04:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 299.25 Mbit/s

95th percentile per-packet one-way delay: 2.136 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 107.20 Mbit/s

95th percentile per-packet one-way delay: 1.506 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 201.43 Mbit/s

95th percentile per-packet one-way delay: 2.422 ms

Loss rate: 0.02%

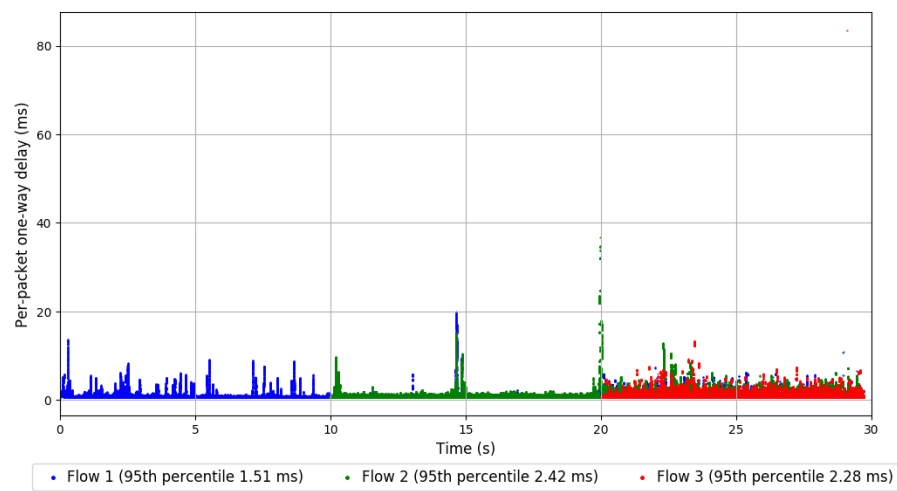
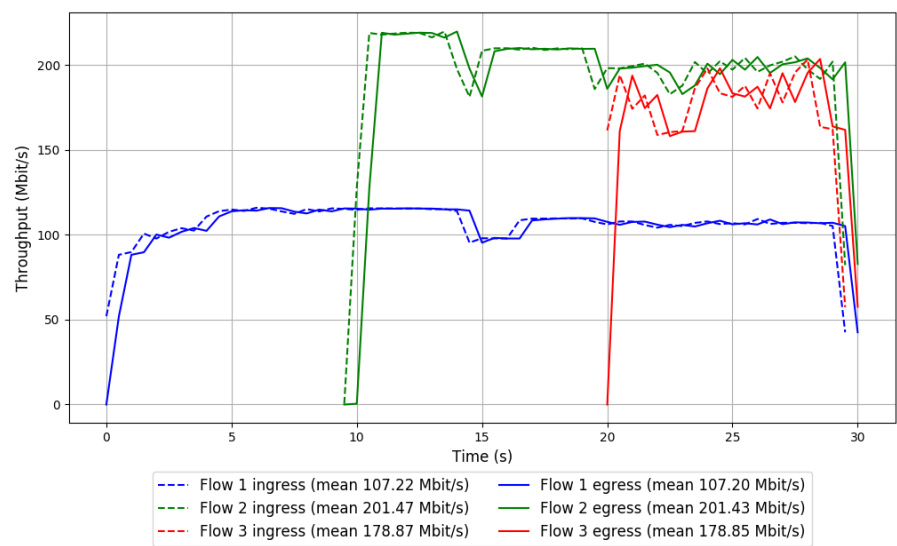
-- Flow 3:

Average throughput: 178.85 Mbit/s

95th percentile per-packet one-way delay: 2.276 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-02 23:02:36

End at: 2019-10-02 23:03:06

Local clock offset: 2.82 ms

Remote clock offset: 0.702 ms

# Below is generated by plot.py at 2019-10-03 02:07:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 600.39 Mbit/s

95th percentile per-packet one-way delay: 2.702 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 332.92 Mbit/s

95th percentile per-packet one-way delay: 2.026 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 223.23 Mbit/s

95th percentile per-packet one-way delay: 1.902 ms

Loss rate: 0.22%

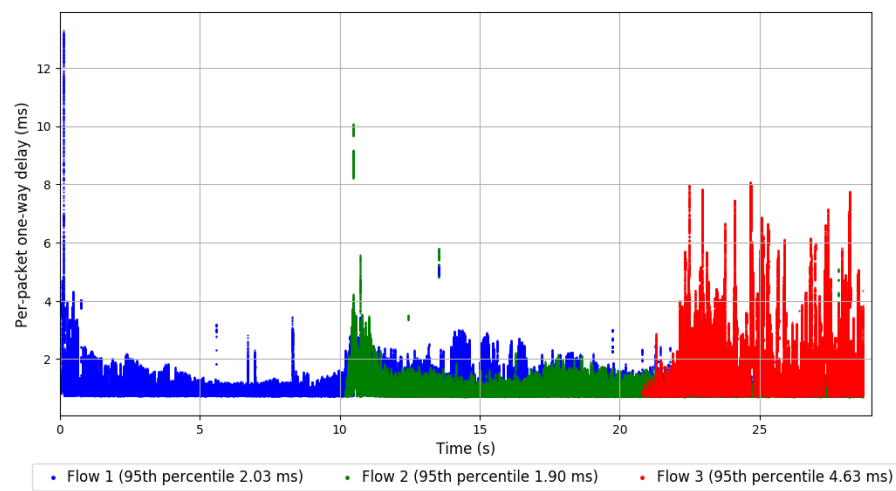
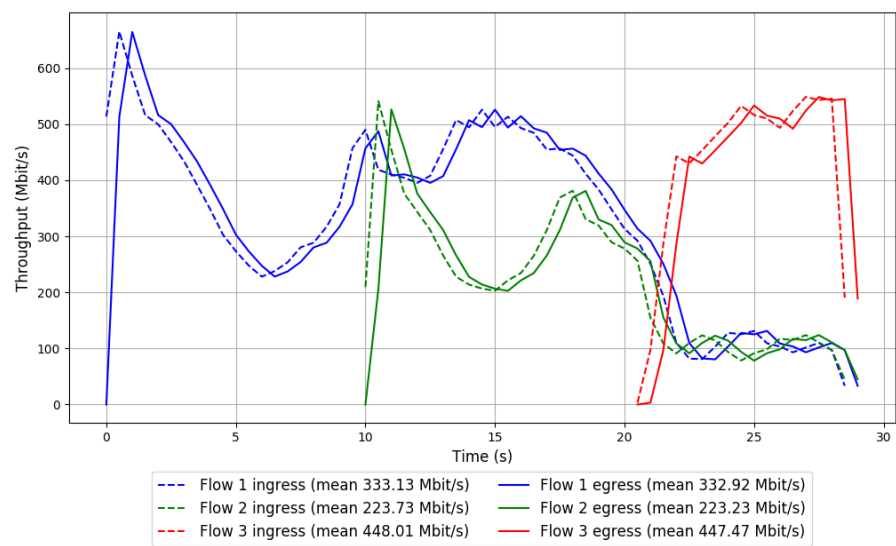
-- Flow 3:

Average throughput: 447.47 Mbit/s

95th percentile per-packet one-way delay: 4.632 ms

Loss rate: 0.11%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-02 23:37:13

End at: 2019-10-02 23:37:43

Local clock offset: 3.808 ms

Remote clock offset: 0.324 ms

# Below is generated by plot.py at 2019-10-03 02:10:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 749.22 Mbit/s

95th percentile per-packet one-way delay: 5.983 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 446.59 Mbit/s

95th percentile per-packet one-way delay: 7.540 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 416.53 Mbit/s

95th percentile per-packet one-way delay: 4.151 ms

Loss rate: 1.28%

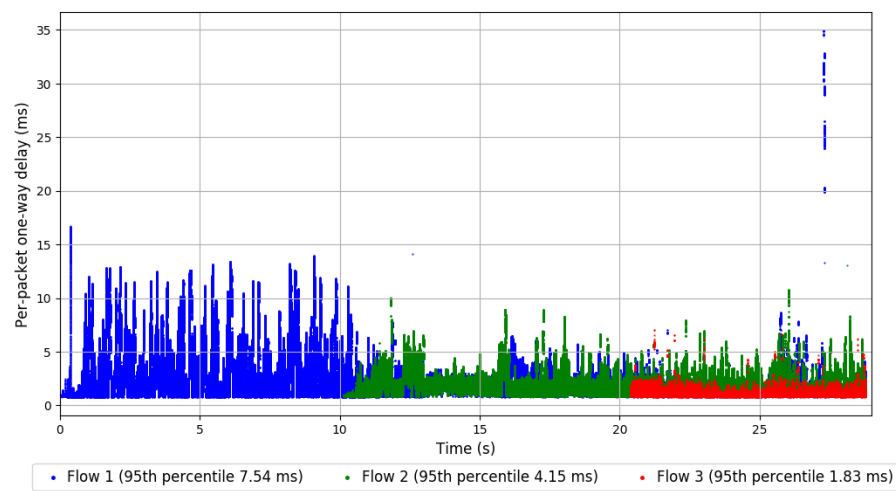
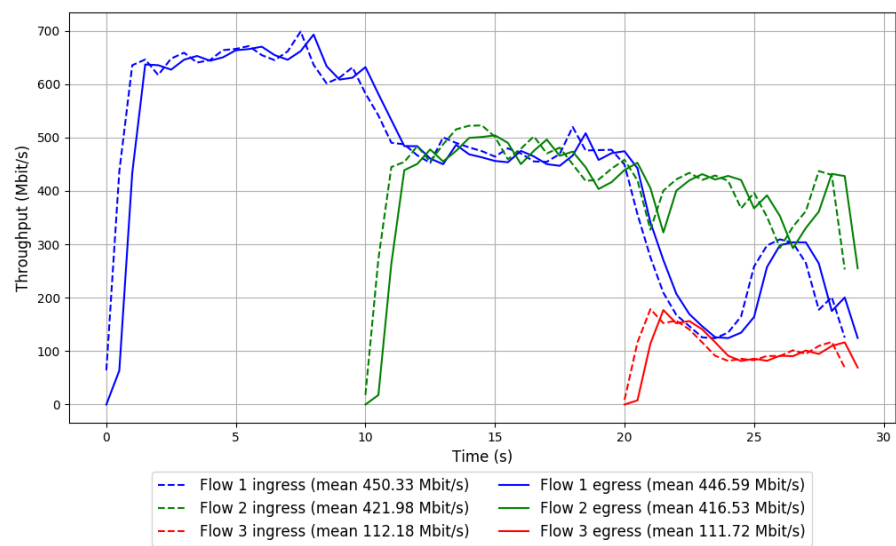
-- Flow 3:

Average throughput: 111.72 Mbit/s

95th percentile per-packet one-way delay: 1.834 ms

Loss rate: 0.41%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-03 00:12:23

End at: 2019-10-03 00:12:53

Local clock offset: 4.192 ms

Remote clock offset: 0.184 ms

# Below is generated by plot.py at 2019-10-03 02:10:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 402.73 Mbit/s

95th percentile per-packet one-way delay: 2.172 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 137.34 Mbit/s

95th percentile per-packet one-way delay: 1.851 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 308.36 Mbit/s

95th percentile per-packet one-way delay: 2.679 ms

Loss rate: 0.11%

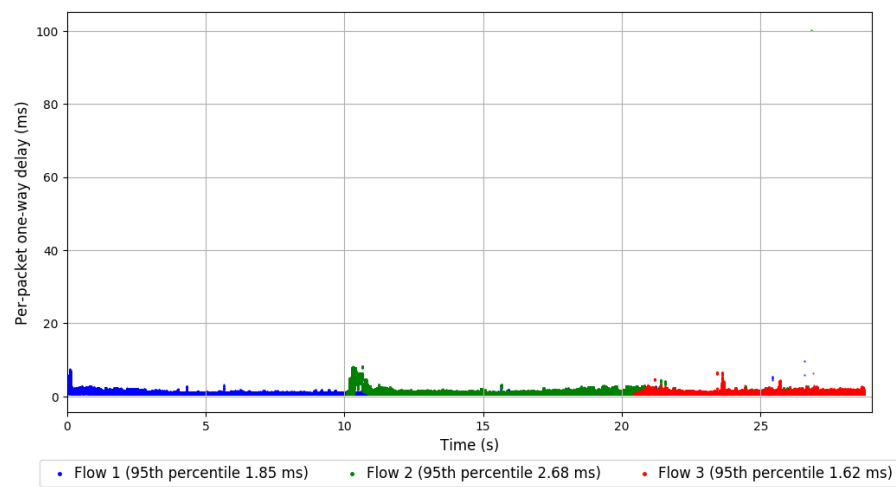
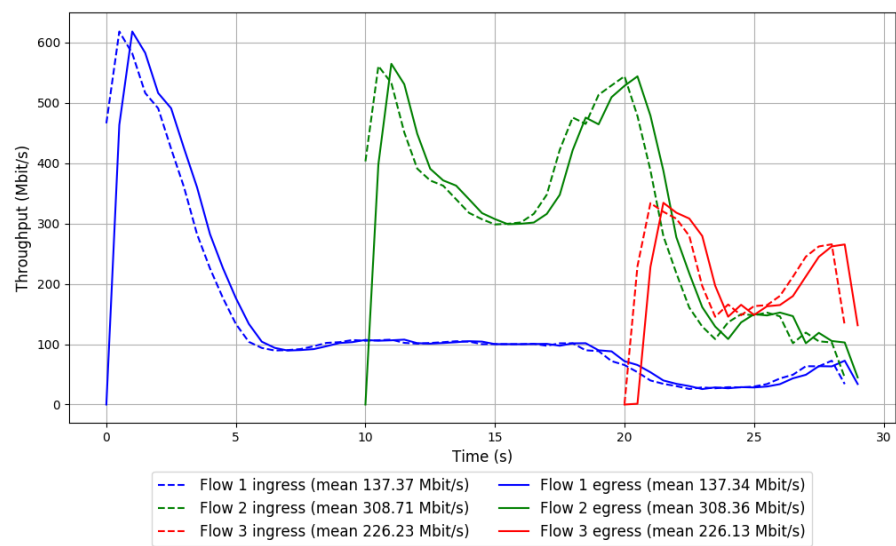
-- Flow 3:

Average throughput: 226.13 Mbit/s

95th percentile per-packet one-way delay: 1.620 ms

Loss rate: 0.03%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-03 00:47:40

End at: 2019-10-03 00:48:10

Local clock offset: 4.009 ms

Remote clock offset: 0.125 ms

# Below is generated by plot.py at 2019-10-03 02:10:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 469.49 Mbit/s

95th percentile per-packet one-way delay: 1.955 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 245.08 Mbit/s

95th percentile per-packet one-way delay: 2.334 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 251.18 Mbit/s

95th percentile per-packet one-way delay: 1.868 ms

Loss rate: 0.06%

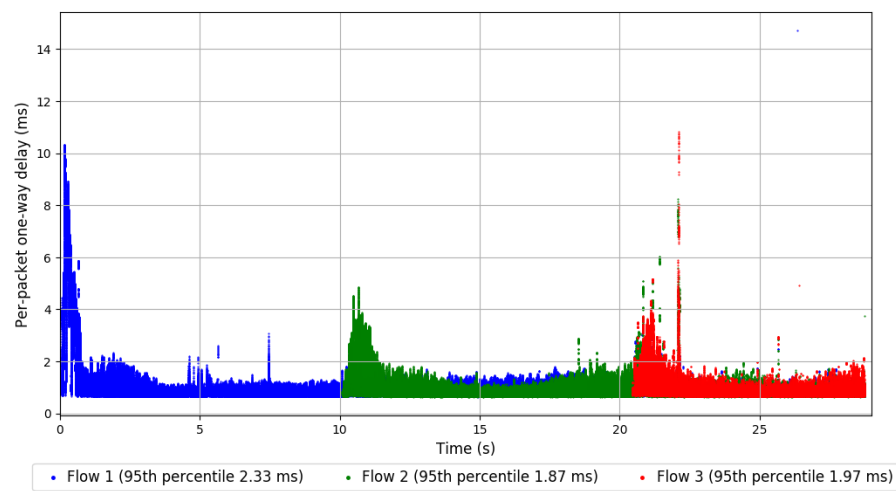
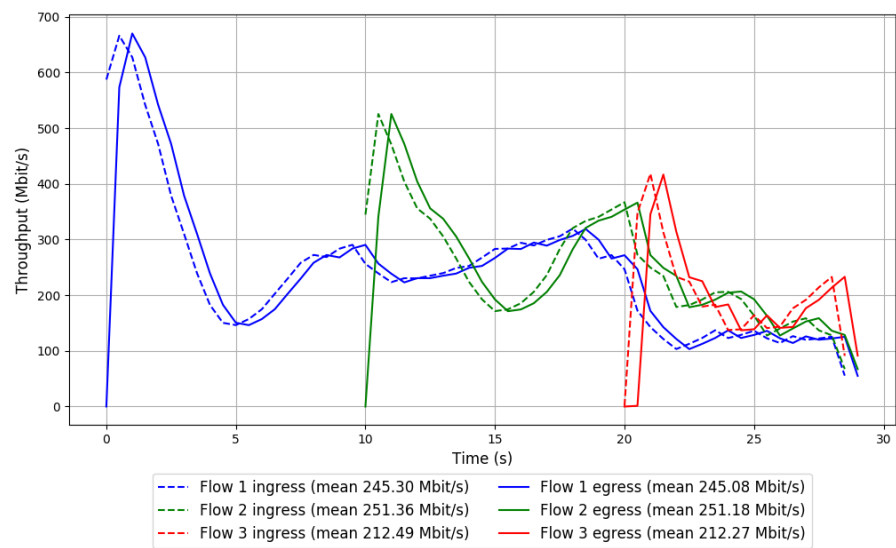
-- Flow 3:

Average throughput: 212.27 Mbit/s

95th percentile per-packet one-way delay: 1.966 ms

Loss rate: 0.10%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-03 01:22:45

End at: 2019-10-03 01:23:15

Local clock offset: 3.524 ms

Remote clock offset: 0.102 ms

# Below is generated by plot.py at 2019-10-03 02:10:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 519.67 Mbit/s

95th percentile per-packet one-way delay: 1.848 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 305.19 Mbit/s

95th percentile per-packet one-way delay: 1.797 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 248.47 Mbit/s

95th percentile per-packet one-way delay: 2.053 ms

Loss rate: 0.12%

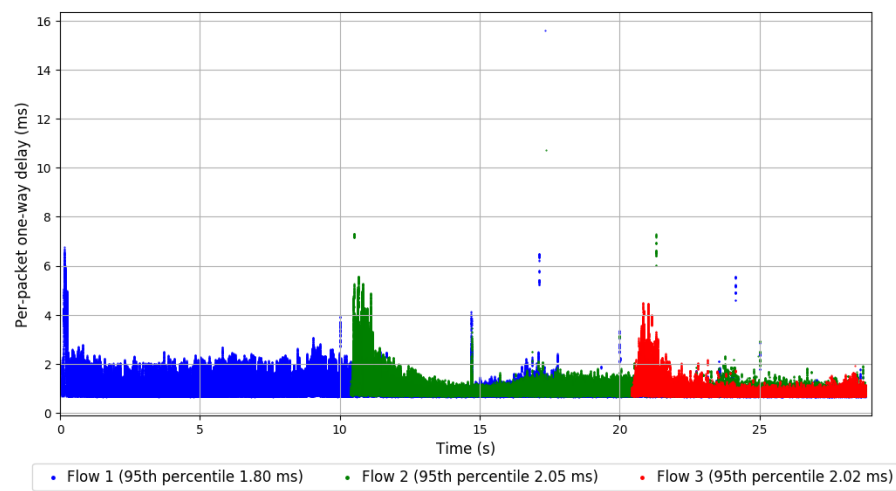
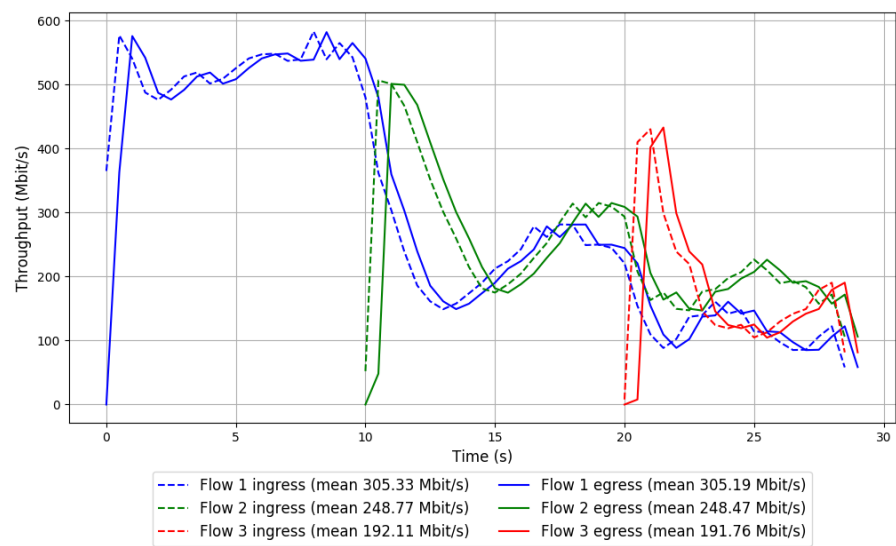
-- Flow 3:

Average throughput: 191.76 Mbit/s

95th percentile per-packet one-way delay: 2.020 ms

Loss rate: 0.18%

Run 5: Report of Indigo-MusesC3 — Data Link

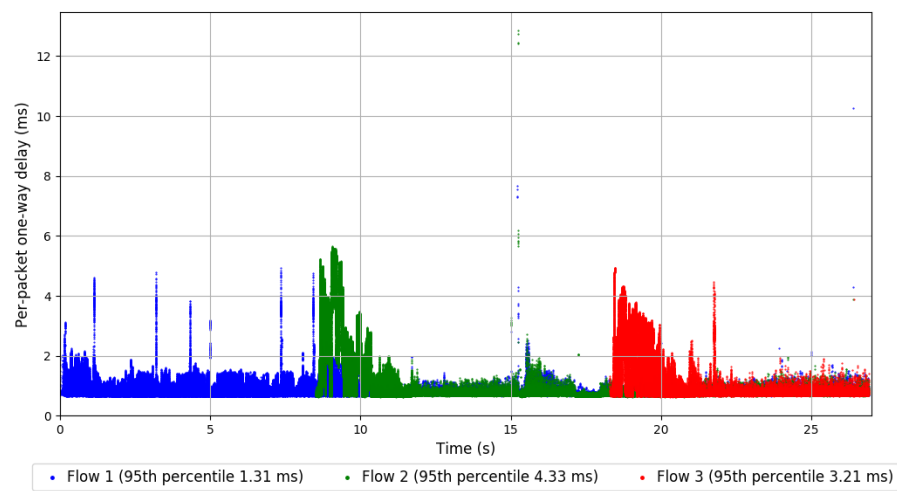
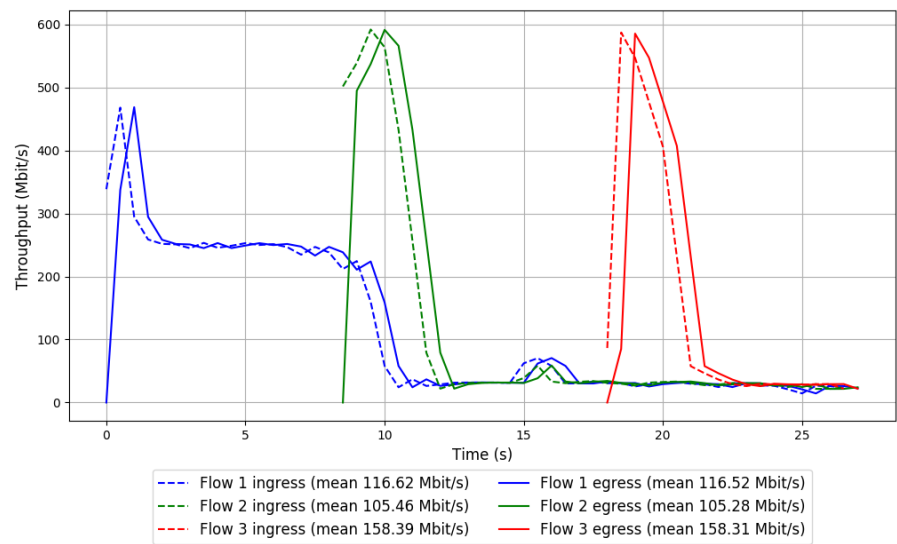


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-02 22:42:19  
End at: 2019-10-02 22:42:49  
Local clock offset: 2.692 ms  
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2019-10-03 02:10:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 239.12 Mbit/s  
95th percentile per-packet one-way delay: 3.222 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 116.52 Mbit/s  
95th percentile per-packet one-way delay: 1.314 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 105.28 Mbit/s  
95th percentile per-packet one-way delay: 4.327 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 158.31 Mbit/s  
95th percentile per-packet one-way delay: 3.215 ms  
Loss rate: 0.04%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-02 23:17:20

End at: 2019-10-02 23:17:50

Local clock offset: 2.765 ms

Remote clock offset: 1.177 ms

# Below is generated by plot.py at 2019-10-03 02:10:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 187.42 Mbit/s

95th percentile per-packet one-way delay: 4.823 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 61.73 Mbit/s

95th percentile per-packet one-way delay: 1.539 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 77.58 Mbit/s

95th percentile per-packet one-way delay: 3.194 ms

Loss rate: 0.04%

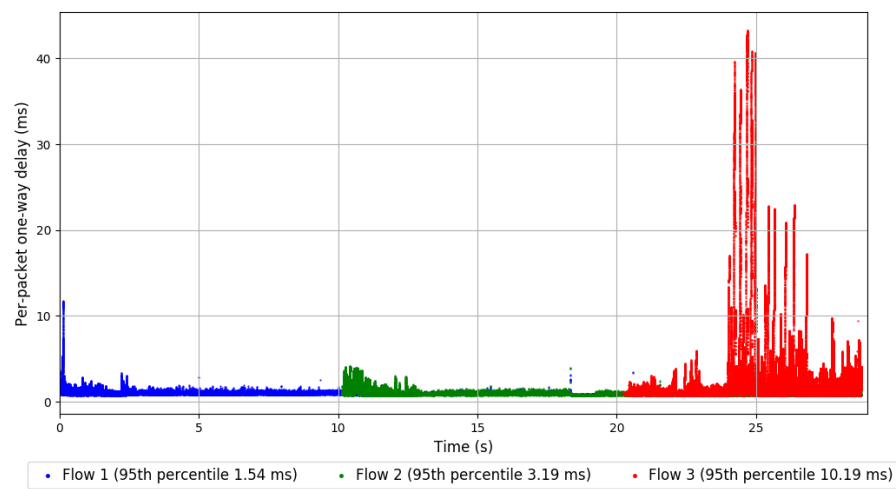
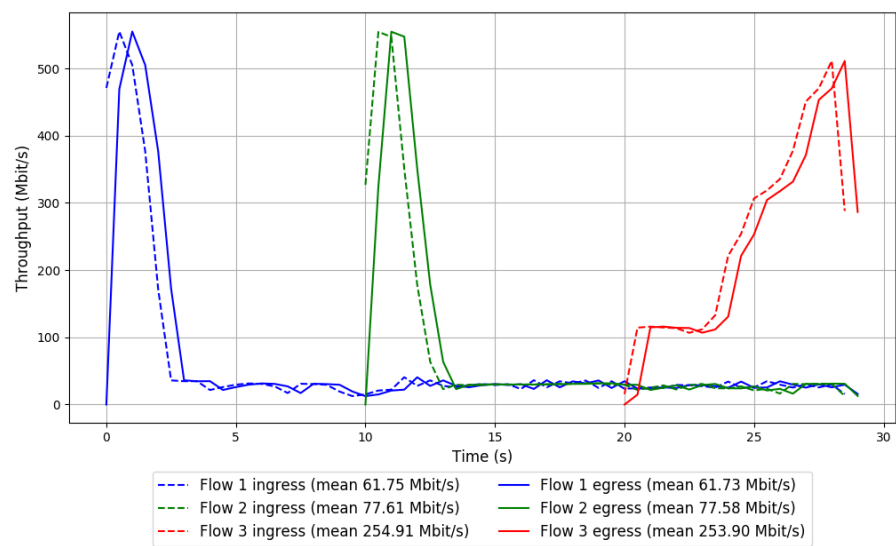
-- Flow 3:

Average throughput: 253.90 Mbit/s

95th percentile per-packet one-way delay: 10.188 ms

Loss rate: 0.38%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-02 23:51:55

End at: 2019-10-02 23:52:25

Local clock offset: 4.429 ms

Remote clock offset: 0.236 ms

# Below is generated by plot.py at 2019-10-03 02:10:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 237.30 Mbit/s

95th percentile per-packet one-way delay: 3.475 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 111.24 Mbit/s

95th percentile per-packet one-way delay: 0.974 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 103.43 Mbit/s

95th percentile per-packet one-way delay: 4.286 ms

Loss rate: 0.10%

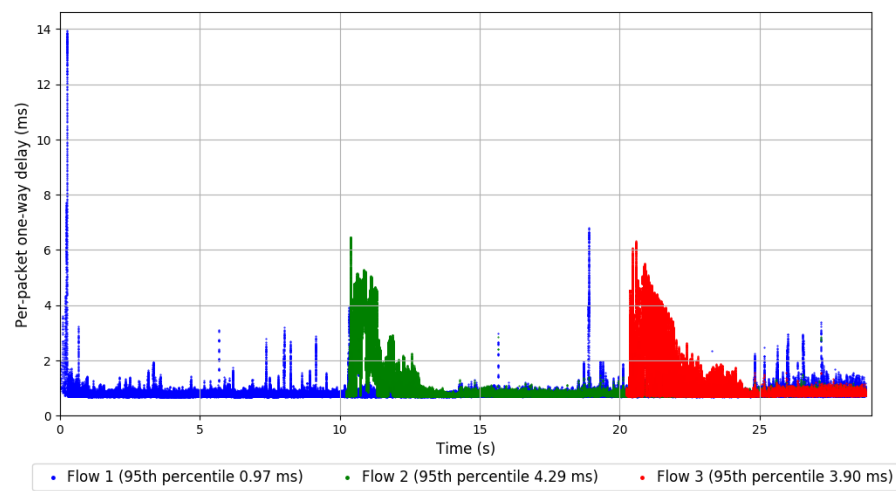
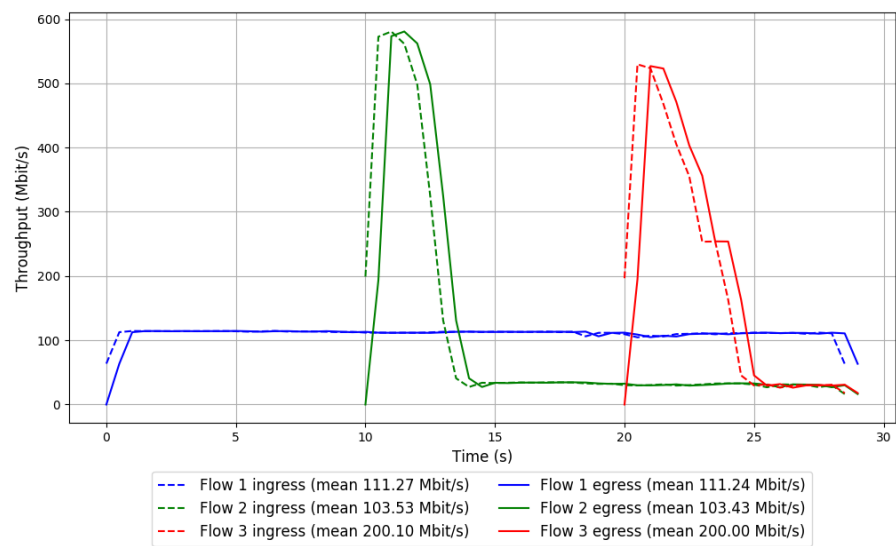
-- Flow 3:

Average throughput: 200.00 Mbit/s

95th percentile per-packet one-way delay: 3.899 ms

Loss rate: 0.06%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-03 00:27:08

End at: 2019-10-03 00:27:38

Local clock offset: 4.238 ms

Remote clock offset: 0.224 ms

# Below is generated by plot.py at 2019-10-03 02:10:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 170.30 Mbit/s

95th percentile per-packet one-way delay: 1.813 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 69.38 Mbit/s

95th percentile per-packet one-way delay: 2.226 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 93.98 Mbit/s

95th percentile per-packet one-way delay: 1.384 ms

Loss rate: 0.01%

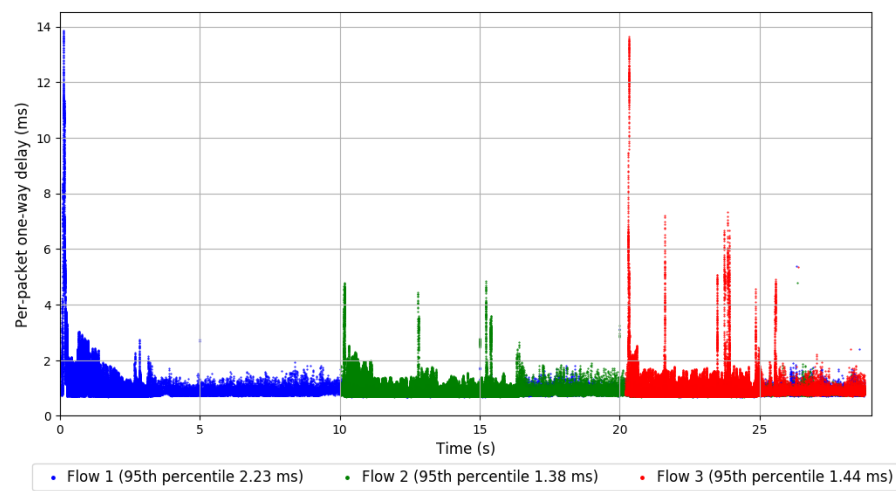
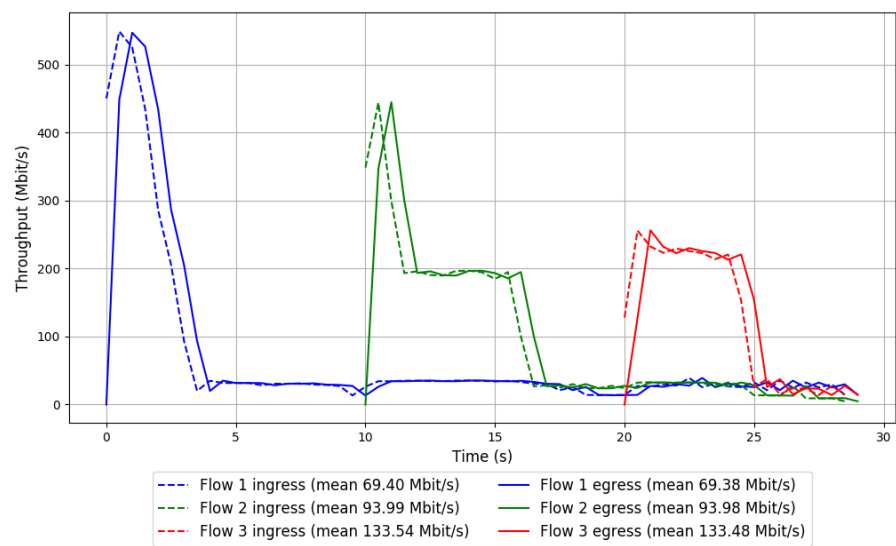
-- Flow 3:

Average throughput: 133.48 Mbit/s

95th percentile per-packet one-way delay: 1.439 ms

Loss rate: 0.04%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-03 01:02:22

End at: 2019-10-03 01:02:52

Local clock offset: 3.9 ms

Remote clock offset: 0.235 ms

# Below is generated by plot.py at 2019-10-03 02:13:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 684.08 Mbit/s

95th percentile per-packet one-way delay: 4.759 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 364.12 Mbit/s

95th percentile per-packet one-way delay: 5.394 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 461.29 Mbit/s

95th percentile per-packet one-way delay: 4.156 ms

Loss rate: 1.59%

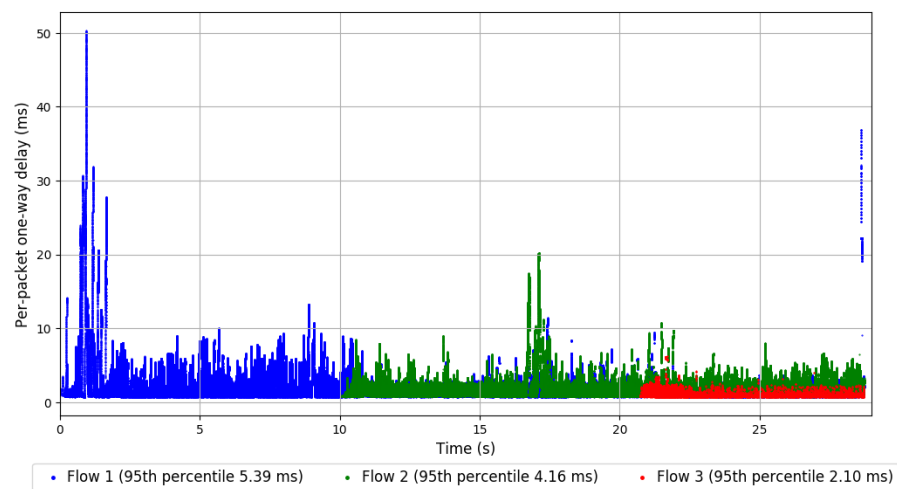
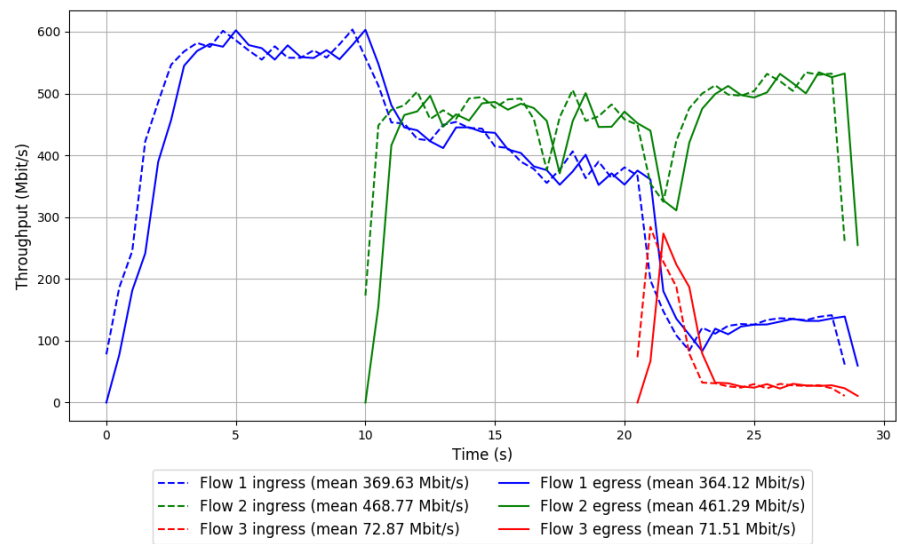
-- Flow 3:

Average throughput: 71.51 Mbit/s

95th percentile per-packet one-way delay: 2.096 ms

Loss rate: 1.93%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-02 22:46:43

End at: 2019-10-02 22:47:13

Local clock offset: 2.735 ms

Remote clock offset: 0.052 ms

# Below is generated by plot.py at 2019-10-03 02:13:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 540.34 Mbit/s

95th percentile per-packet one-way delay: 12.602 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 468.09 Mbit/s

95th percentile per-packet one-way delay: 13.208 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 80.84 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.08%

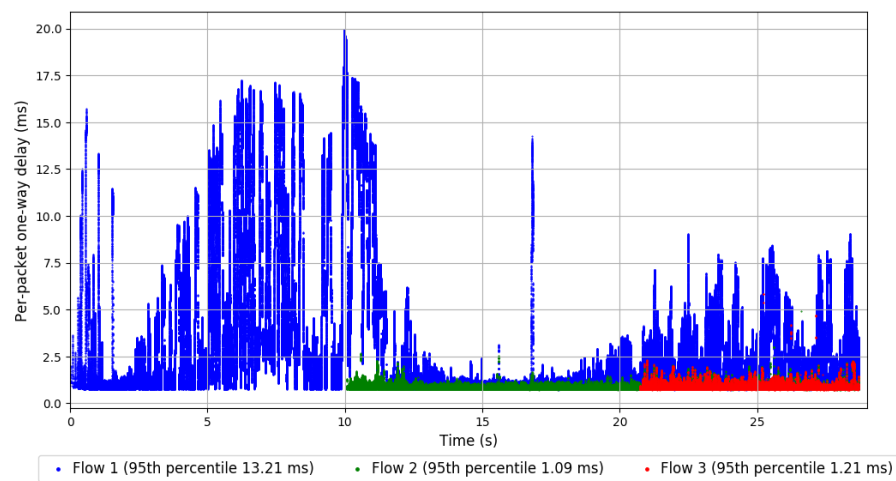
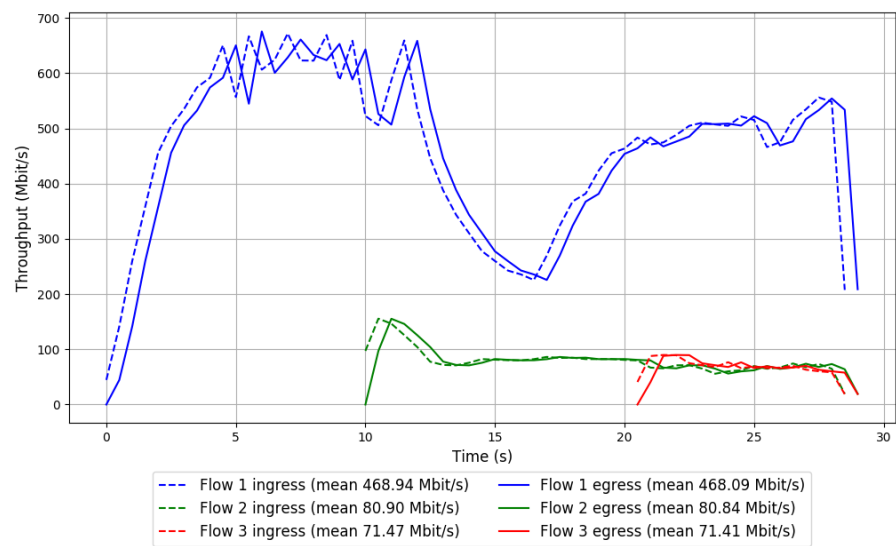
-- Flow 3:

Average throughput: 71.41 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.09%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-02 23:21:35

End at: 2019-10-02 23:22:05

Local clock offset: 2.736 ms

Remote clock offset: 1.004 ms

# Below is generated by plot.py at 2019-10-03 02:13:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 190.51 Mbit/s

95th percentile per-packet one-way delay: 1.317 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 104.60 Mbit/s

95th percentile per-packet one-way delay: 1.279 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 93.38 Mbit/s

95th percentile per-packet one-way delay: 1.299 ms

Loss rate: 0.03%

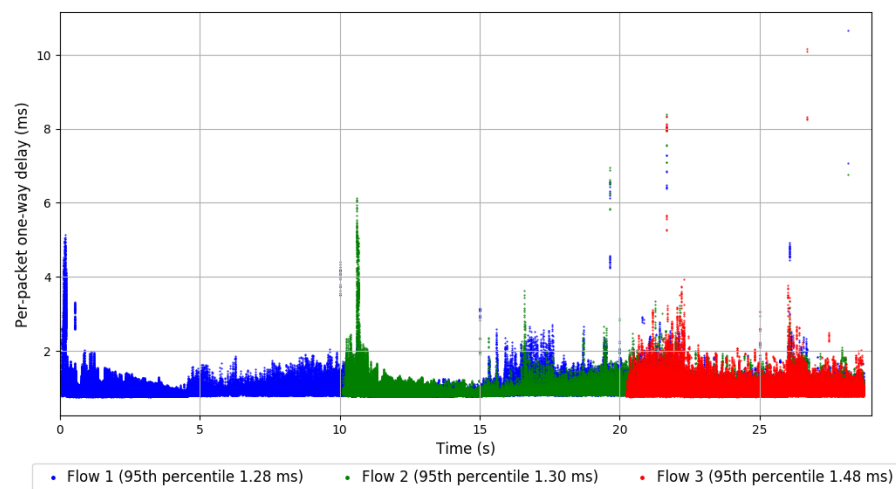
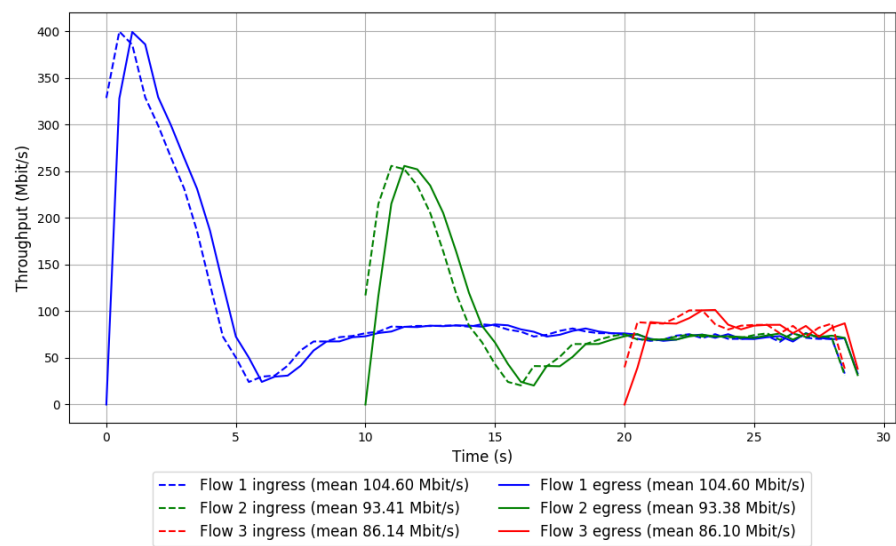
-- Flow 3:

Average throughput: 86.10 Mbit/s

95th percentile per-packet one-way delay: 1.476 ms

Loss rate: 0.04%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-02 23:56:18

End at: 2019-10-02 23:56:48

Local clock offset: 4.463 ms

Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2019-10-03 02:14:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 624.86 Mbit/s

95th percentile per-packet one-way delay: 6.395 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 392.24 Mbit/s

95th percentile per-packet one-way delay: 6.400 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 291.09 Mbit/s

95th percentile per-packet one-way delay: 6.893 ms

Loss rate: 0.28%

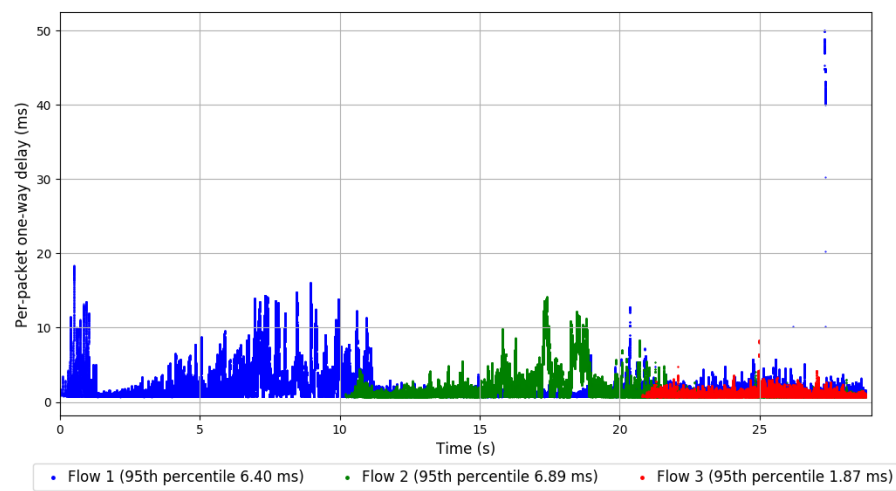
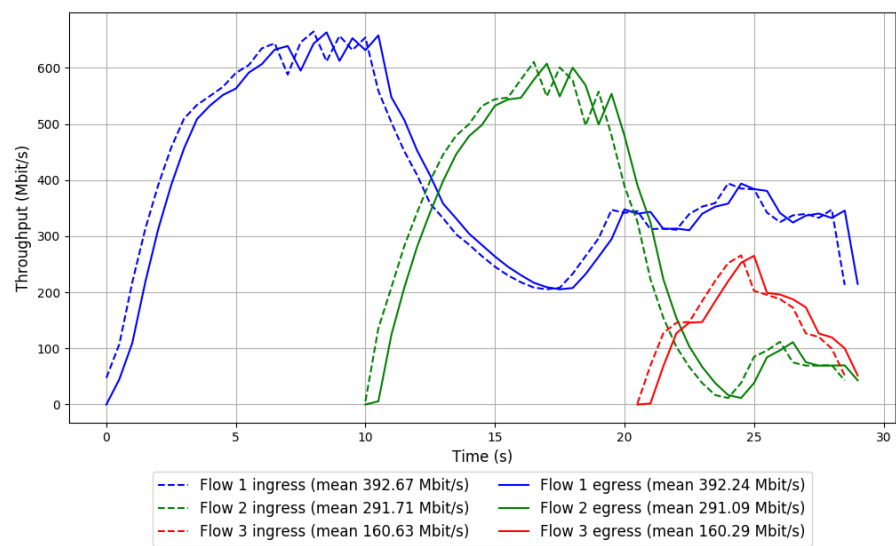
-- Flow 3:

Average throughput: 160.29 Mbit/s

95th percentile per-packet one-way delay: 1.872 ms

Loss rate: 0.21%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-03 00:31:41

End at: 2019-10-03 00:32:11

Local clock offset: 4.102 ms

Remote clock offset: 0.233 ms

# Below is generated by plot.py at 2019-10-03 02:14:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 410.26 Mbit/s

95th percentile per-packet one-way delay: 5.735 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 78.64 Mbit/s

95th percentile per-packet one-way delay: 1.334 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 349.88 Mbit/s

95th percentile per-packet one-way delay: 6.880 ms

Loss rate: 0.07%

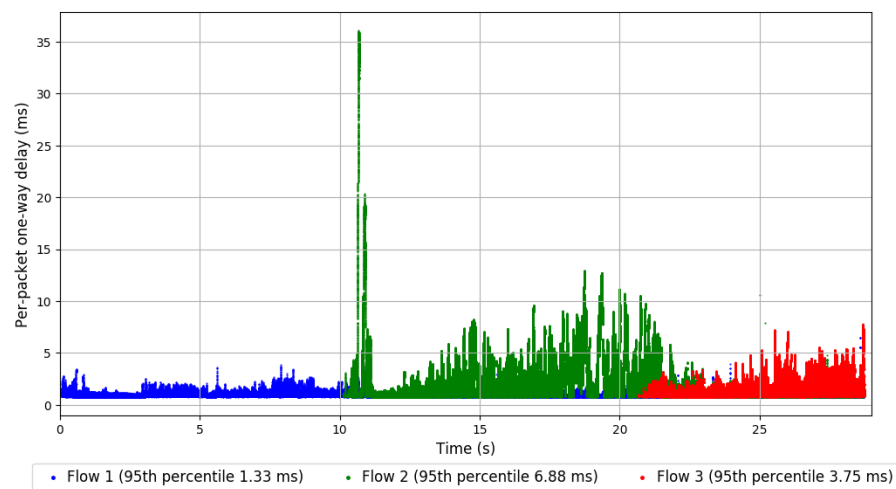
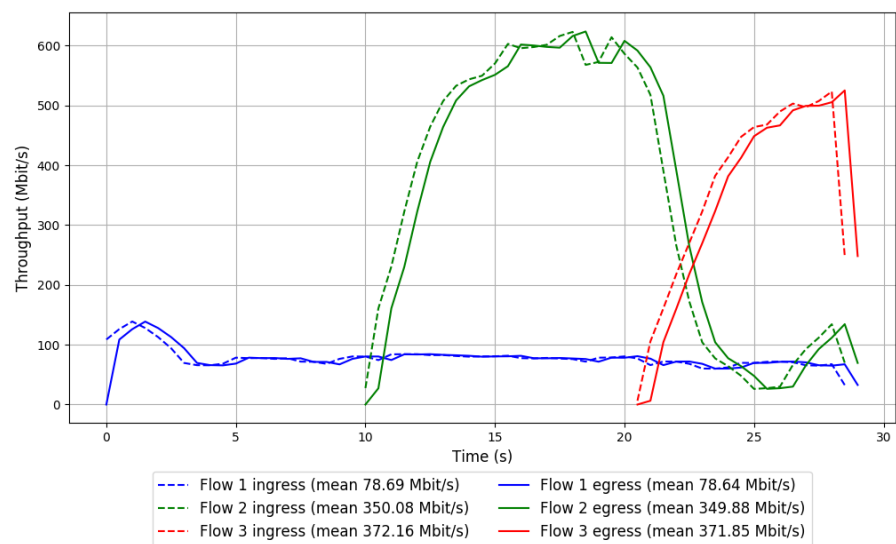
-- Flow 3:

Average throughput: 371.85 Mbit/s

95th percentile per-packet one-way delay: 3.750 ms

Loss rate: 0.07%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-03 01:07:00

End at: 2019-10-03 01:07:30

Local clock offset: 3.881 ms

Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2019-10-03 02:14:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 502.95 Mbit/s

95th percentile per-packet one-way delay: 15.559 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 70.35 Mbit/s

95th percentile per-packet one-way delay: 1.250 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 553.43 Mbit/s

95th percentile per-packet one-way delay: 16.085 ms

Loss rate: 0.53%

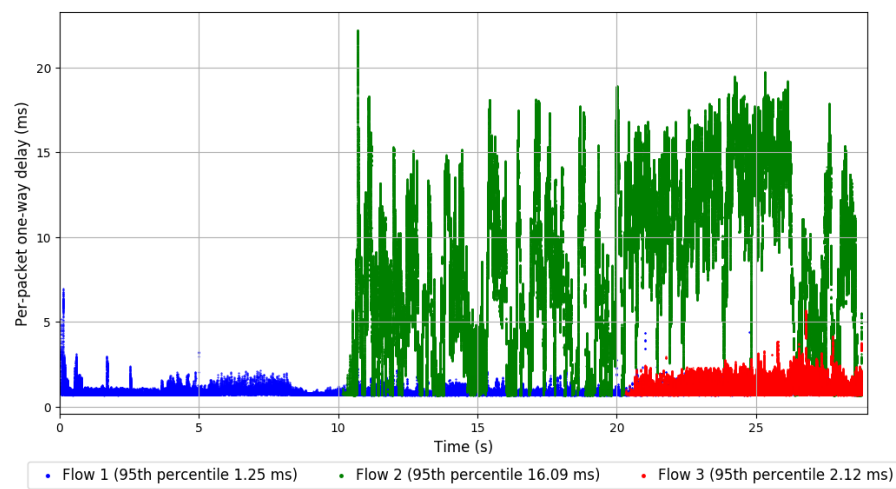
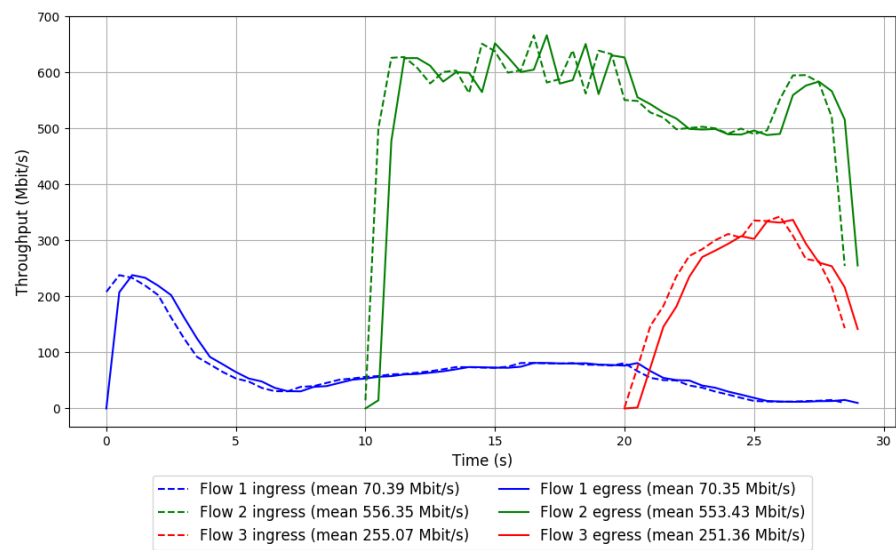
-- Flow 3:

Average throughput: 251.36 Mbit/s

95th percentile per-packet one-way delay: 2.115 ms

Loss rate: 1.44%

Run 5: Report of Indigo-MusesD — Data Link

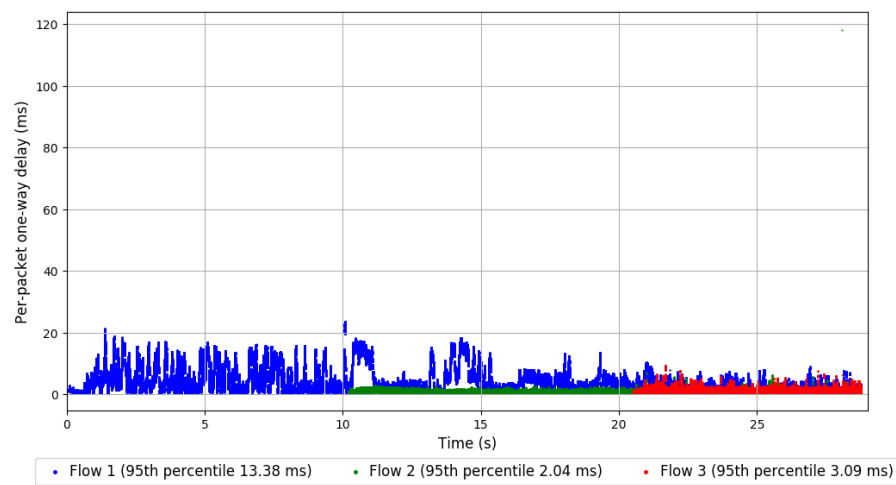
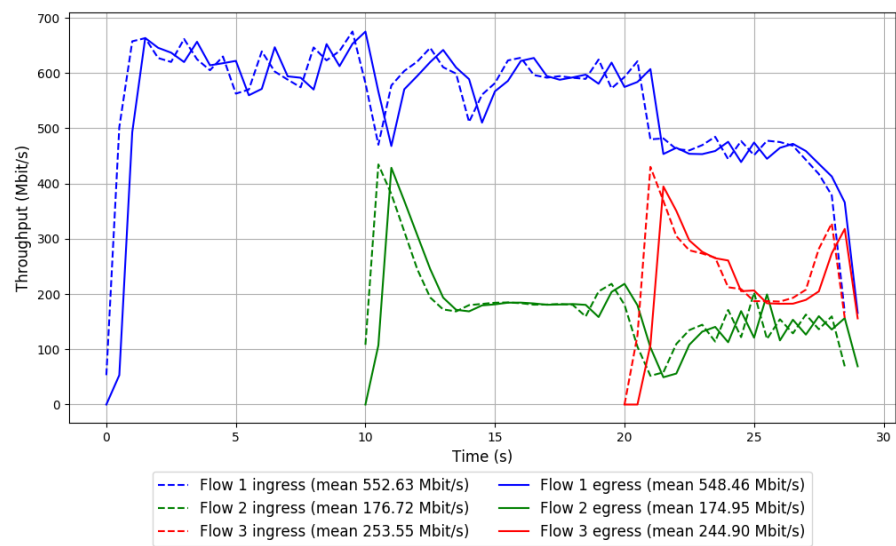


Run 1: Statistics of Indigo-MusesT

Start at: 2019-10-02 22:45:04  
End at: 2019-10-02 22:45:34  
Local clock offset: 2.709 ms  
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-10-03 02:16:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 731.86 Mbit/s  
95th percentile per-packet one-way delay: 12.541 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 548.46 Mbit/s  
95th percentile per-packet one-way delay: 13.384 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 174.95 Mbit/s  
95th percentile per-packet one-way delay: 2.036 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 244.90 Mbit/s  
95th percentile per-packet one-way delay: 3.091 ms  
Loss rate: 3.40%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-10-02 23:19:57

End at: 2019-10-02 23:20:27

Local clock offset: 2.769 ms

Remote clock offset: 1.199 ms

# Below is generated by plot.py at 2019-10-03 02:16:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 670.21 Mbit/s

95th percentile per-packet one-way delay: 9.680 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 280.19 Mbit/s

95th percentile per-packet one-way delay: 1.756 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 546.17 Mbit/s

95th percentile per-packet one-way delay: 11.377 ms

Loss rate: 0.51%

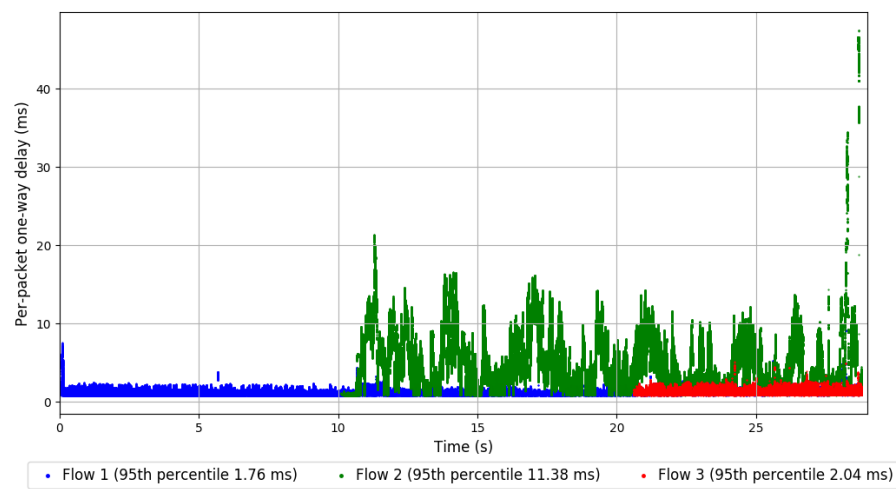
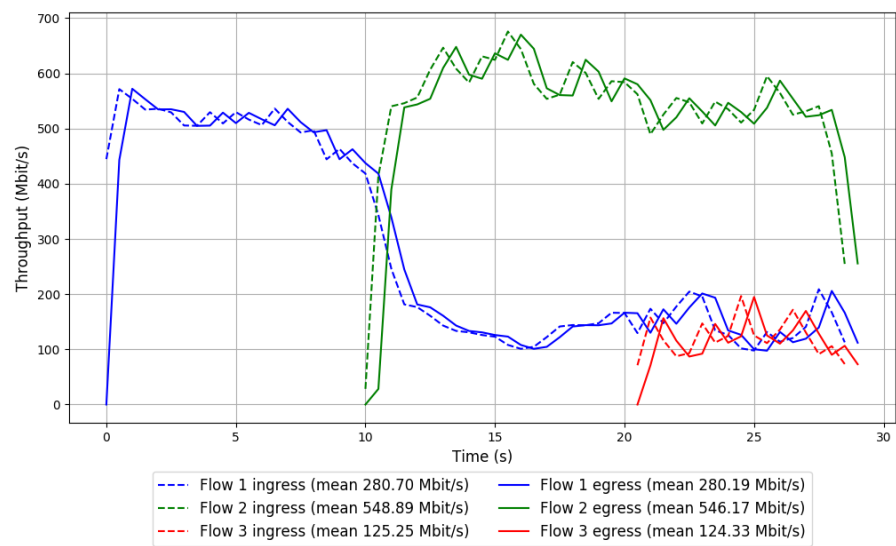
-- Flow 3:

Average throughput: 124.33 Mbit/s

95th percentile per-packet one-way delay: 2.045 ms

Loss rate: 0.73%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-10-02 23:54:48

End at: 2019-10-02 23:55:18

Local clock offset: 4.526 ms

Remote clock offset: 0.315 ms

# Below is generated by plot.py at 2019-10-03 02:16:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 456.52 Mbit/s

95th percentile per-packet one-way delay: 1.460 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 251.89 Mbit/s

95th percentile per-packet one-way delay: 1.396 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 237.74 Mbit/s

95th percentile per-packet one-way delay: 1.427 ms

Loss rate: 0.02%

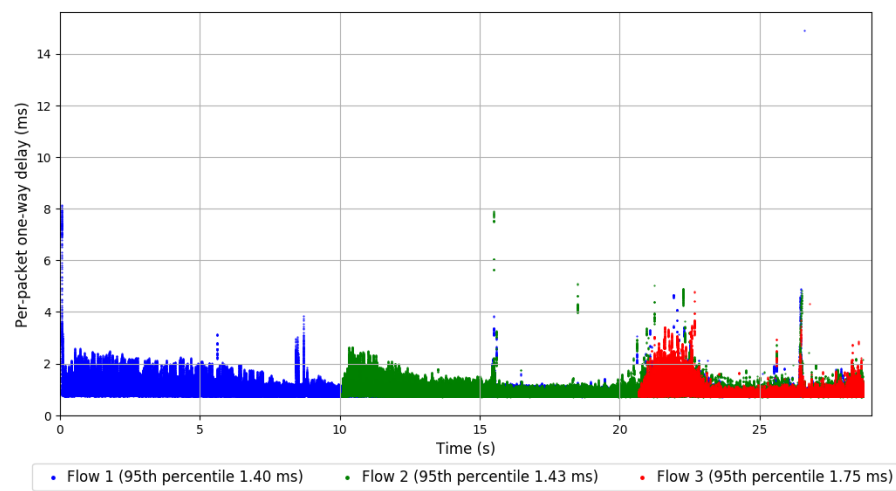
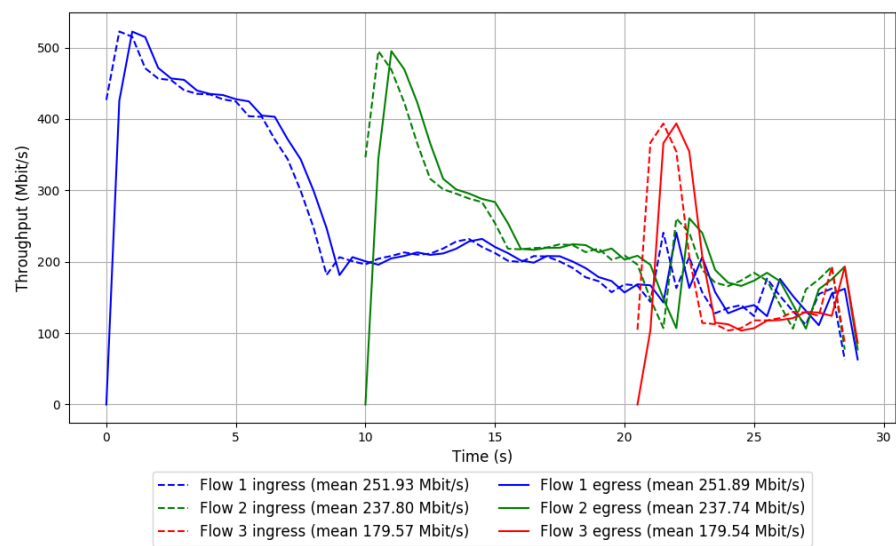
-- Flow 3:

Average throughput: 179.54 Mbit/s

95th percentile per-packet one-way delay: 1.749 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-10-03 00:30:06

End at: 2019-10-03 00:30:36

Local clock offset: 4.129 ms

Remote clock offset: 0.197 ms

# Below is generated by plot.py at 2019-10-03 02:19:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 603.79 Mbit/s

95th percentile per-packet one-way delay: 8.827 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 211.37 Mbit/s

95th percentile per-packet one-way delay: 1.737 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 490.88 Mbit/s

95th percentile per-packet one-way delay: 10.377 ms

Loss rate: 1.02%

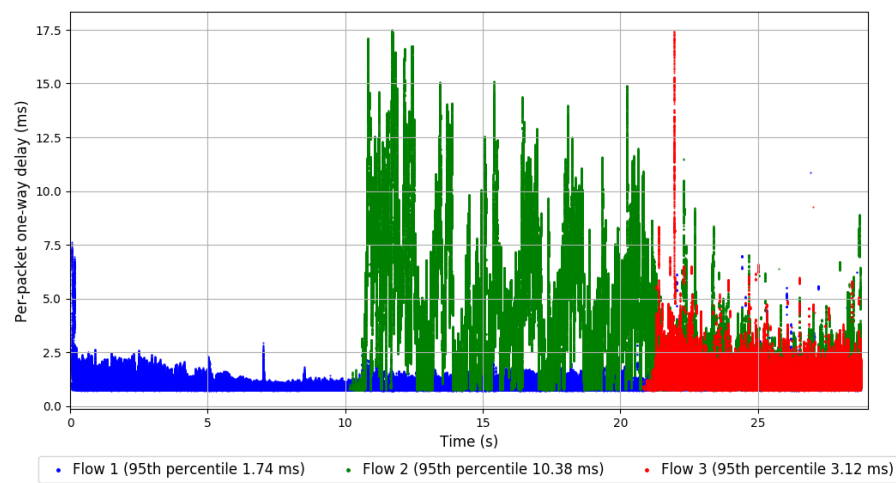
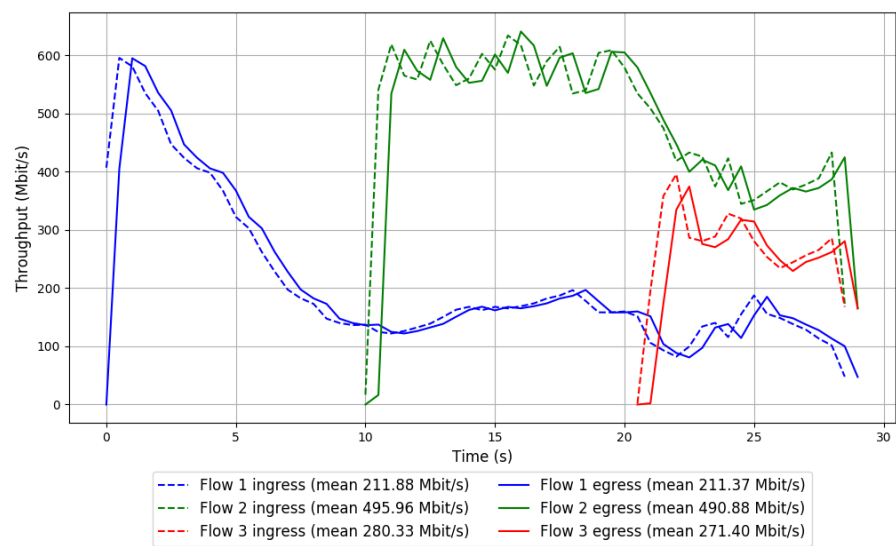
-- Flow 3:

Average throughput: 271.40 Mbit/s

95th percentile per-packet one-way delay: 3.121 ms

Loss rate: 3.18%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-10-03 01:05:24

End at: 2019-10-03 01:05:54

Local clock offset: 3.873 ms

Remote clock offset: 0.153 ms

# Below is generated by plot.py at 2019-10-03 02:19:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 616.66 Mbit/s

95th percentile per-packet one-way delay: 8.276 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 225.76 Mbit/s

95th percentile per-packet one-way delay: 1.587 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 539.59 Mbit/s

95th percentile per-packet one-way delay: 9.305 ms

Loss rate: 0.59%

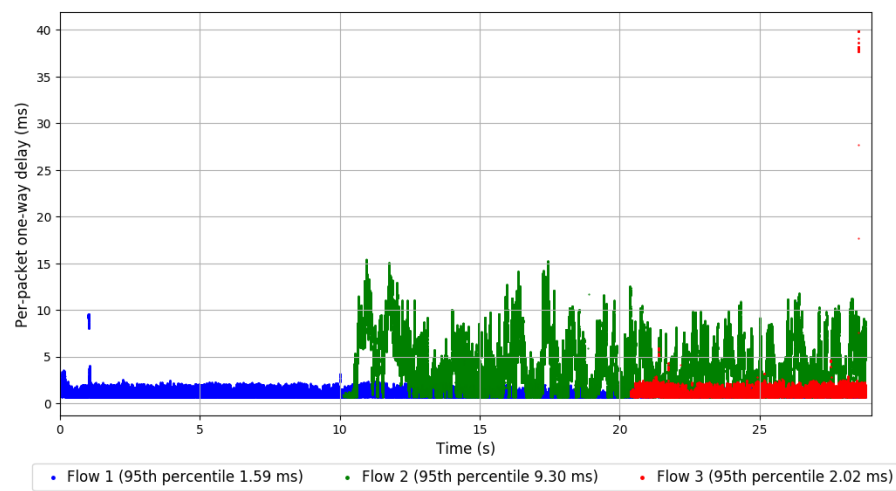
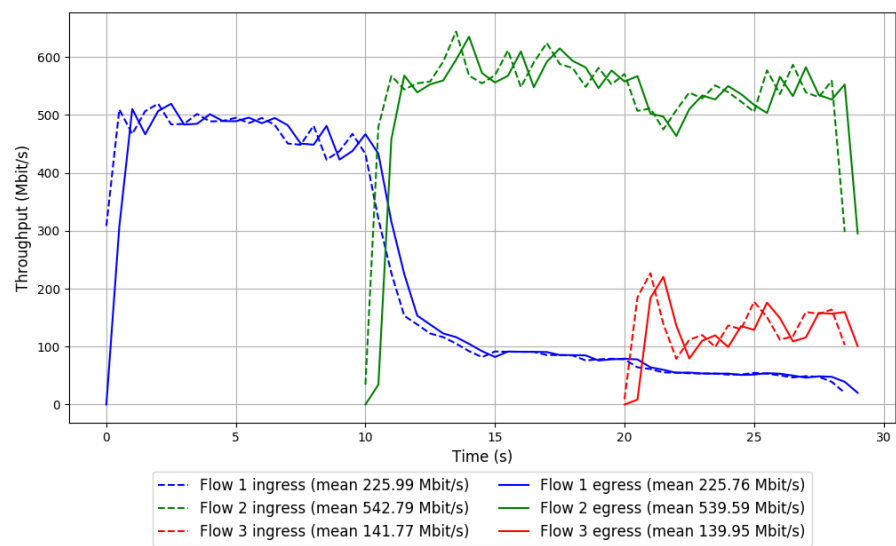
-- Flow 3:

Average throughput: 139.95 Mbit/s

95th percentile per-packet one-way delay: 2.024 ms

Loss rate: 1.29%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-10-02 23:10:14

End at: 2019-10-02 23:10:44

Local clock offset: 2.784 ms

Remote clock offset: 0.976 ms

# Below is generated by plot.py at 2019-10-03 02:20:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 660.54 Mbit/s

95th percentile per-packet one-way delay: 9.163 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 388.86 Mbit/s

95th percentile per-packet one-way delay: 9.915 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 311.71 Mbit/s

95th percentile per-packet one-way delay: 6.716 ms

Loss rate: 0.20%

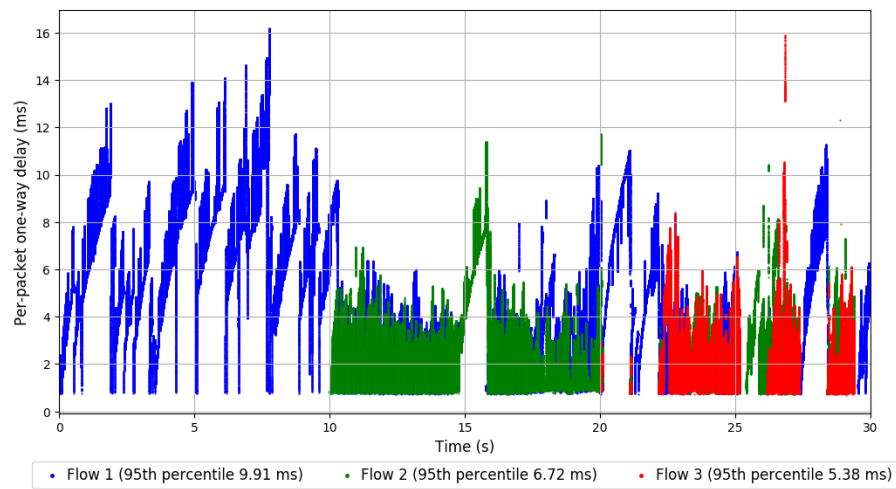
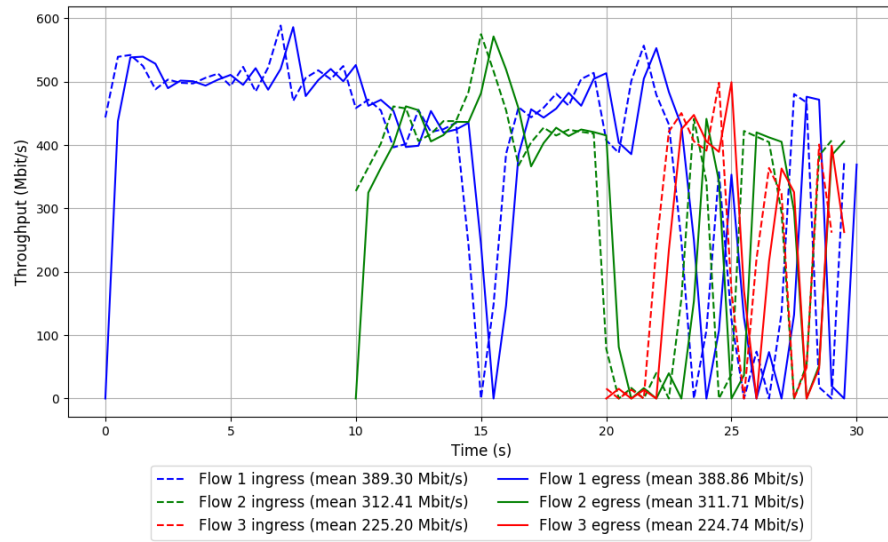
-- Flow 3:

Average throughput: 224.74 Mbit/s

95th percentile per-packet one-way delay: 5.381 ms

Loss rate: 0.21%

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-10-02 23:44:53

End at: 2019-10-02 23:45:23

Local clock offset: 4.175 ms

Remote clock offset: 0.327 ms

# Below is generated by plot.py at 2019-10-03 02:20:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 465.66 Mbit/s

95th percentile per-packet one-way delay: 13.013 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 127.16 Mbit/s

95th percentile per-packet one-way delay: 1.474 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 454.78 Mbit/s

95th percentile per-packet one-way delay: 13.726 ms

Loss rate: 0.04%

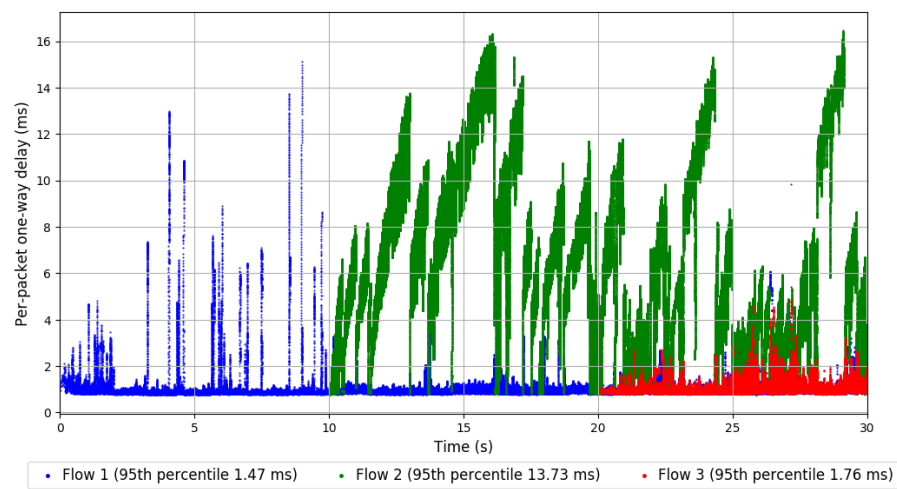
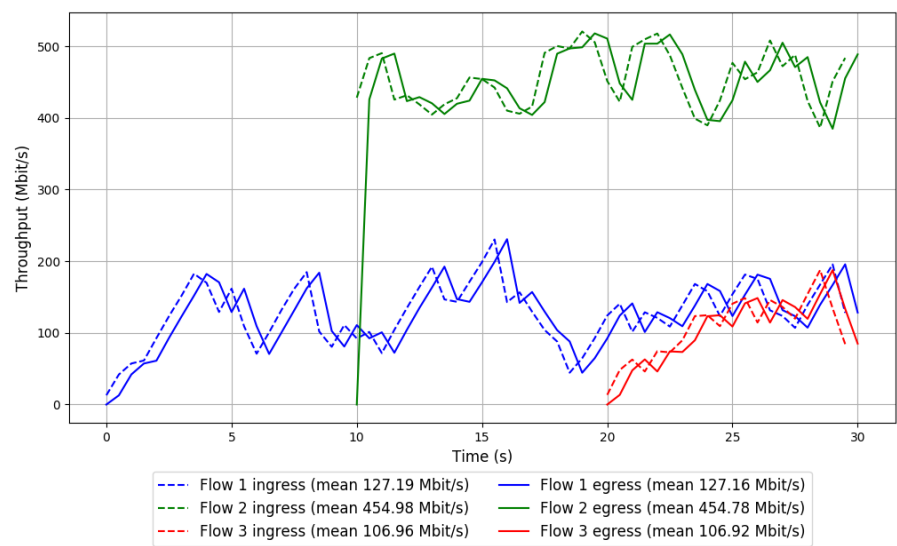
-- Flow 3:

Average throughput: 106.92 Mbit/s

95th percentile per-packet one-way delay: 1.764 ms

Loss rate: 0.04%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-10-03 00:19:53

End at: 2019-10-03 00:20:23

Local clock offset: 4.241 ms

Remote clock offset: 0.221 ms

# Below is generated by plot.py at 2019-10-03 02:22:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 658.44 Mbit/s

95th percentile per-packet one-way delay: 9.897 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 353.33 Mbit/s

95th percentile per-packet one-way delay: 11.570 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 360.20 Mbit/s

95th percentile per-packet one-way delay: 5.409 ms

Loss rate: 0.22%

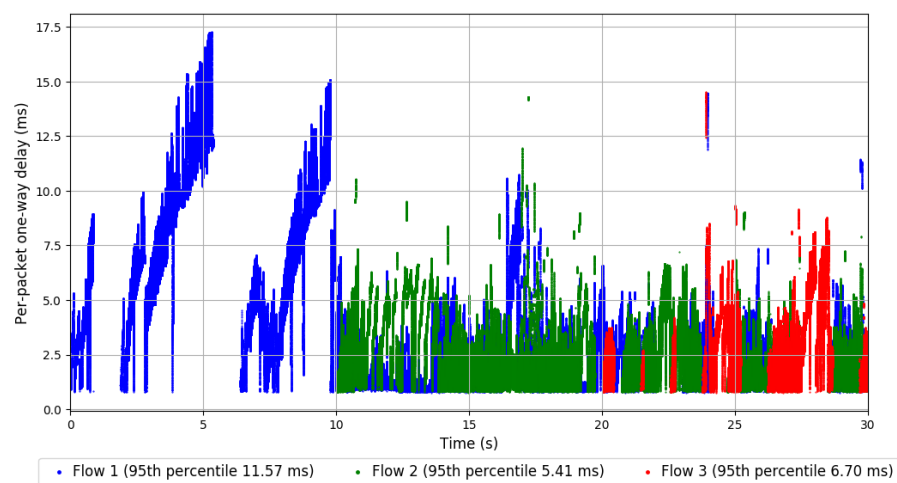
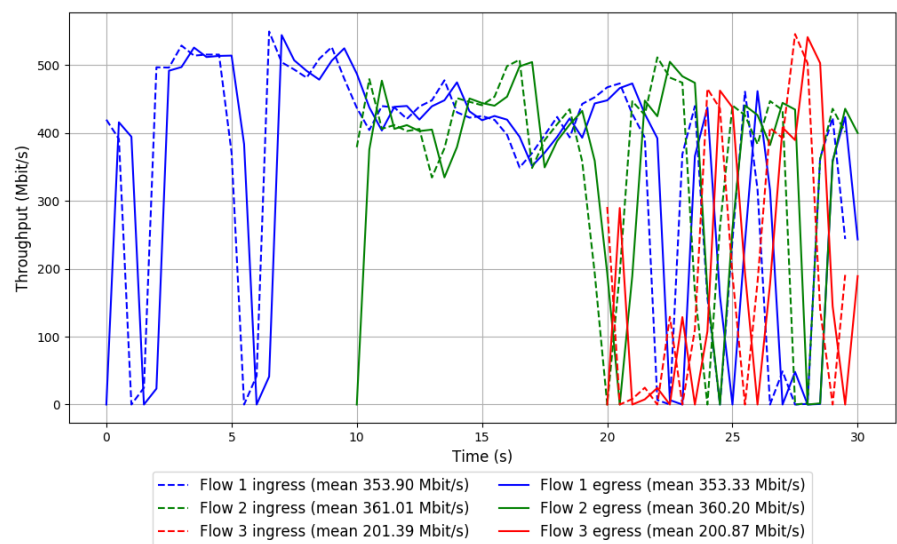
-- Flow 3:

Average throughput: 200.87 Mbit/s

95th percentile per-packet one-way delay: 6.695 ms

Loss rate: 0.25%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-10-03 00:55:20

End at: 2019-10-03 00:55:50

Local clock offset: 3.943 ms

Remote clock offset: 0.168 ms

# Below is generated by plot.py at 2019-10-03 02:22:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 243.03 Mbit/s

95th percentile per-packet one-way delay: 1.498 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 122.67 Mbit/s

95th percentile per-packet one-way delay: 1.401 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 135.38 Mbit/s

95th percentile per-packet one-way delay: 1.654 ms

Loss rate: 0.02%

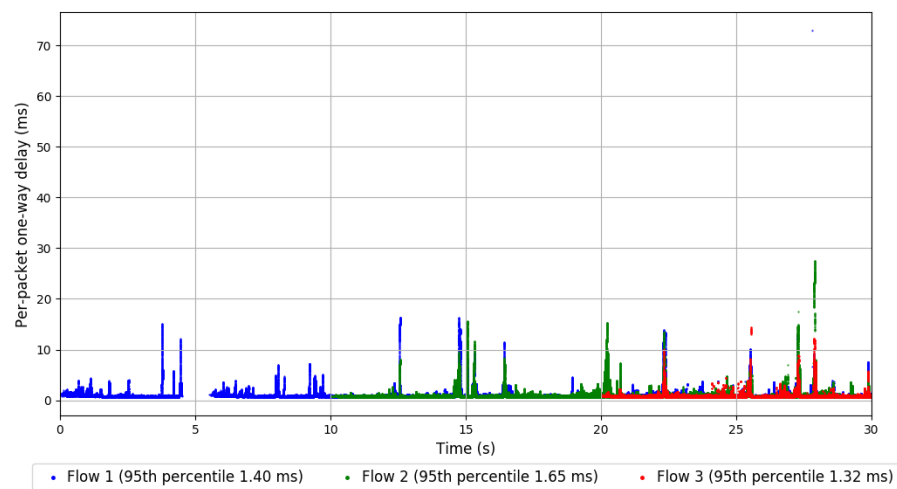
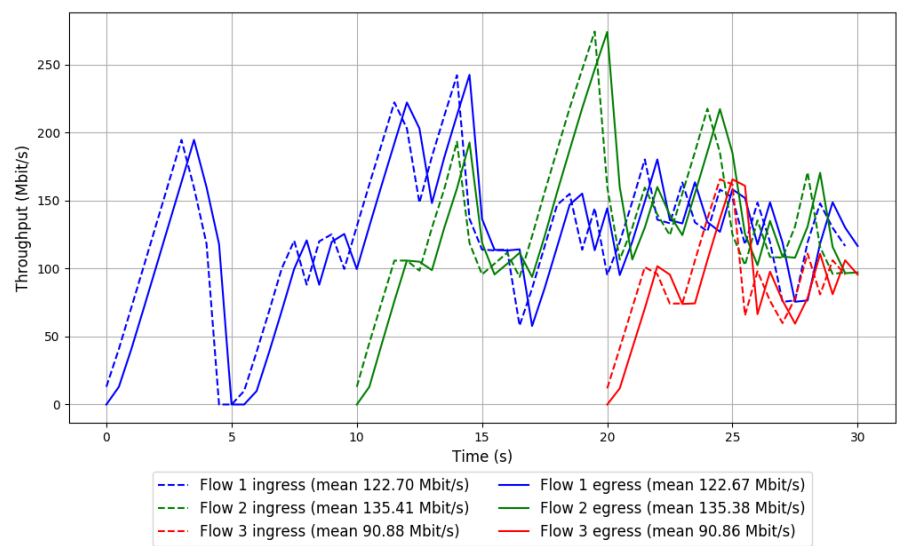
-- Flow 3:

Average throughput: 90.86 Mbit/s

95th percentile per-packet one-way delay: 1.319 ms

Loss rate: 0.03%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-10-03 01:30:13

End at: 2019-10-03 01:30:43

Local clock offset: 3.328 ms

Remote clock offset: 0.23 ms

# Below is generated by plot.py at 2019-10-03 02:23:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 574.99 Mbit/s

95th percentile per-packet one-way delay: 14.675 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 475.66 Mbit/s

95th percentile per-packet one-way delay: 15.289 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 97.64 Mbit/s

95th percentile per-packet one-way delay: 1.644 ms

Loss rate: 0.16%

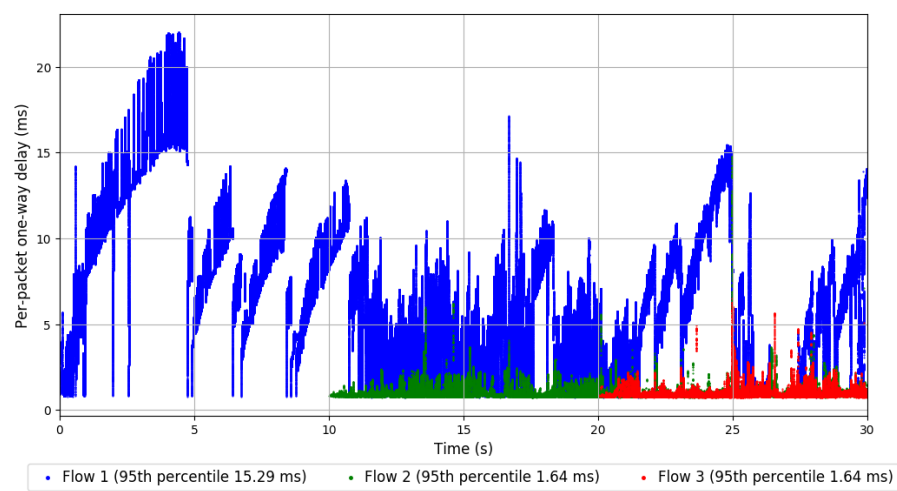
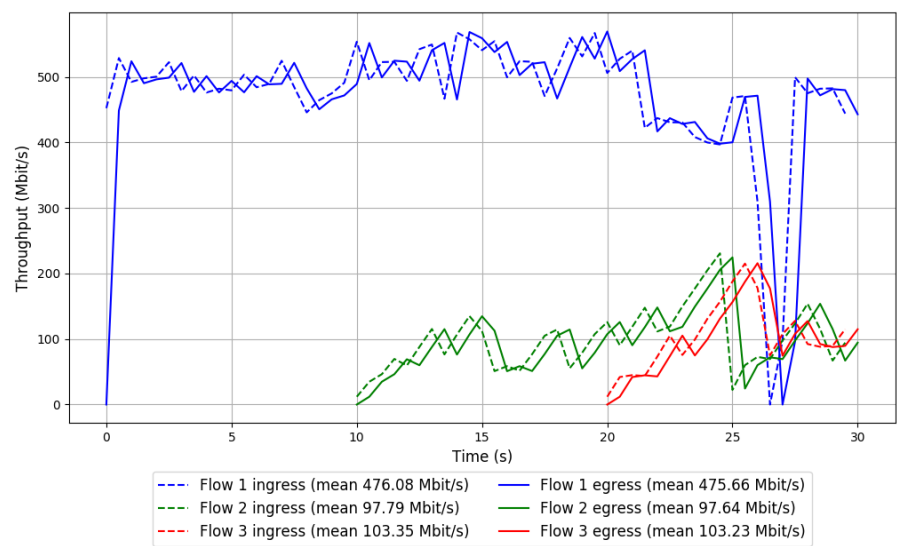
-- Flow 3:

Average throughput: 103.23 Mbit/s

95th percentile per-packet one-way delay: 1.644 ms

Loss rate: 0.11%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 23:04:12

End at: 2019-10-02 23:04:42

Local clock offset: 2.823 ms

Remote clock offset: 0.739 ms

# Below is generated by plot.py at 2019-10-03 02:23:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 137.21 Mbit/s

95th percentile per-packet one-way delay: 1.062 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 122.03 Mbit/s

95th percentile per-packet one-way delay: 1.171 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 16.08 Mbit/s

95th percentile per-packet one-way delay: 0.900 ms

Loss rate: 0.01%

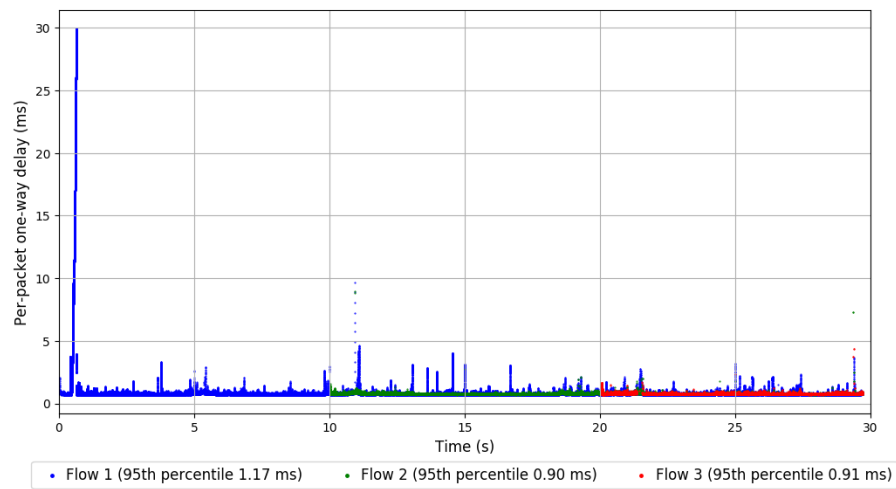
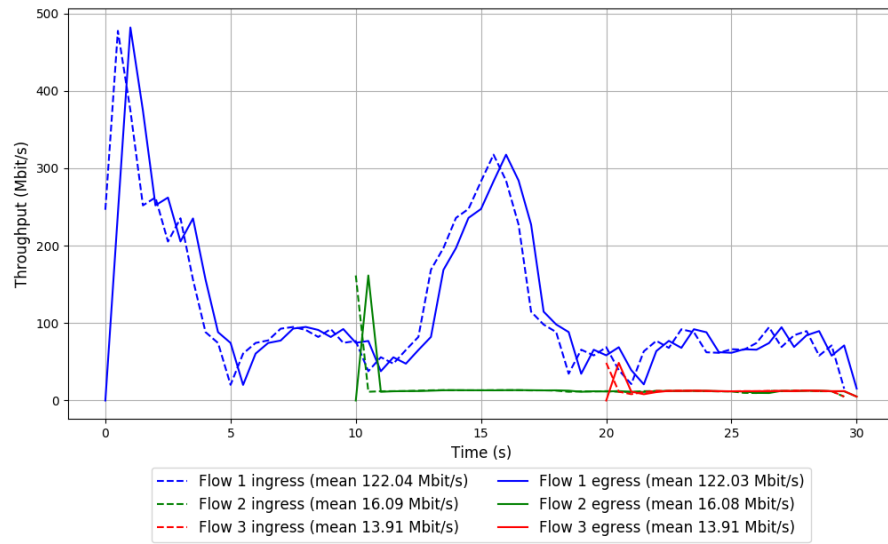
-- Flow 3:

Average throughput: 13.91 Mbit/s

95th percentile per-packet one-way delay: 0.909 ms

Loss rate: 0.02%

# Run 1: Report of Muses\_DecisionTree — Data Link



Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 23:38:52

End at: 2019-10-02 23:39:22

Local clock offset: 3.924 ms

Remote clock offset: 0.308 ms

# Below is generated by plot.py at 2019-10-03 02:23:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 226.21 Mbit/s

95th percentile per-packet one-way delay: 3.255 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 65.31 Mbit/s

95th percentile per-packet one-way delay: 2.705 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.27 Mbit/s

95th percentile per-packet one-way delay: 1.017 ms

Loss rate: 0.00%

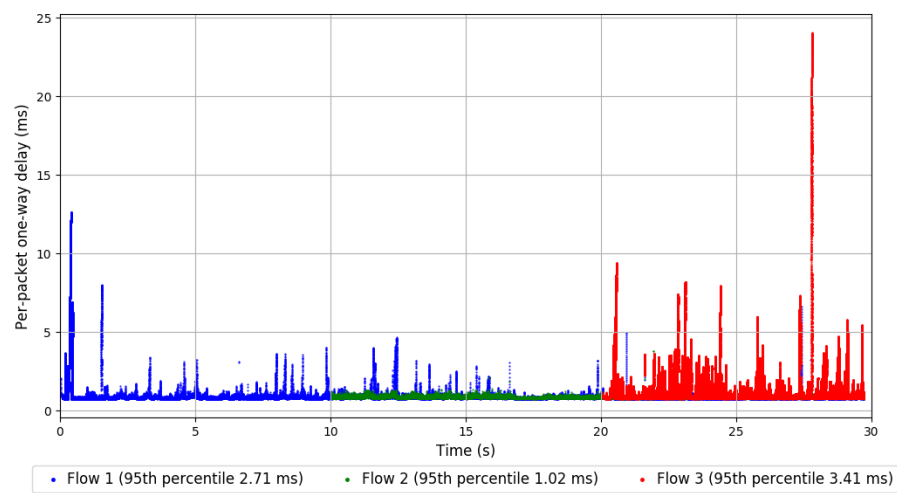
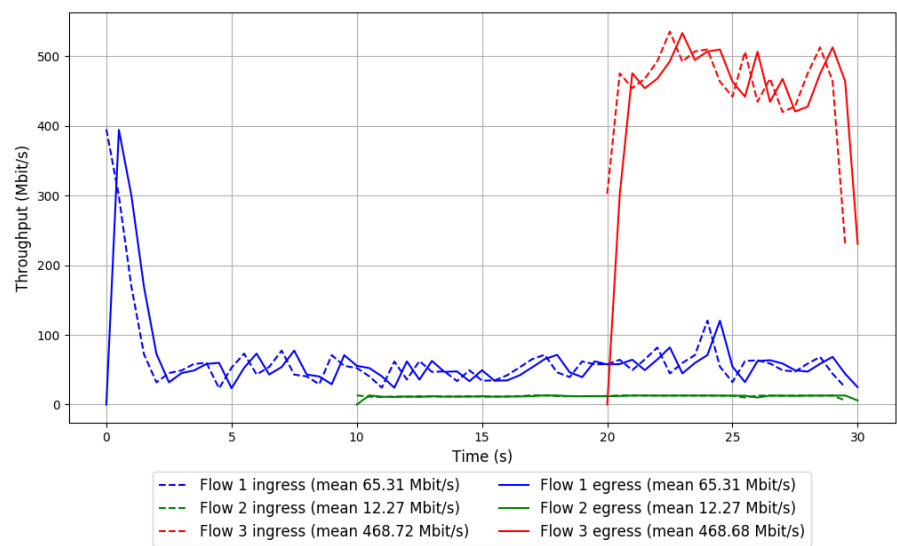
-- Flow 3:

Average throughput: 468.68 Mbit/s

95th percentile per-packet one-way delay: 3.406 ms

Loss rate: 0.01%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 00:13:52

End at: 2019-10-03 00:14:22

Local clock offset: 4.203 ms

Remote clock offset: 0.106 ms

# Below is generated by plot.py at 2019-10-03 02:23:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 198.74 Mbit/s

95th percentile per-packet one-way delay: 2.497 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 78.74 Mbit/s

95th percentile per-packet one-way delay: 2.163 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 66.73 Mbit/s

95th percentile per-packet one-way delay: 1.386 ms

Loss rate: 0.04%

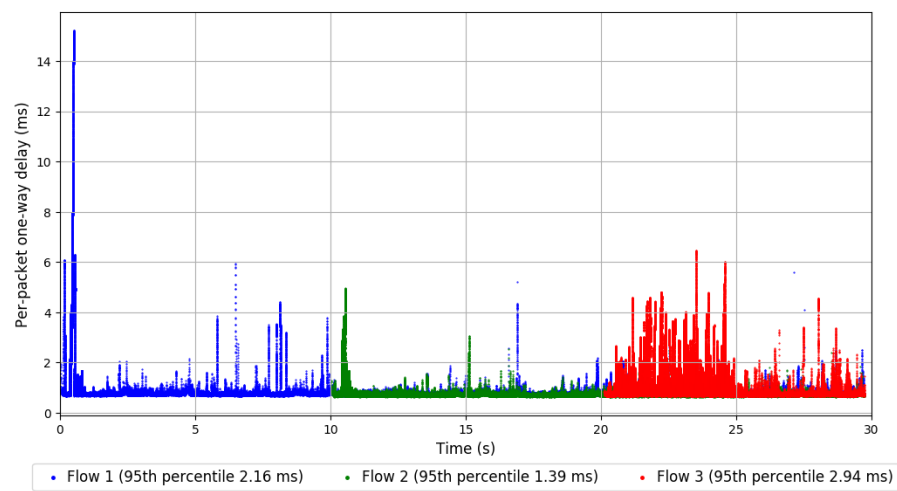
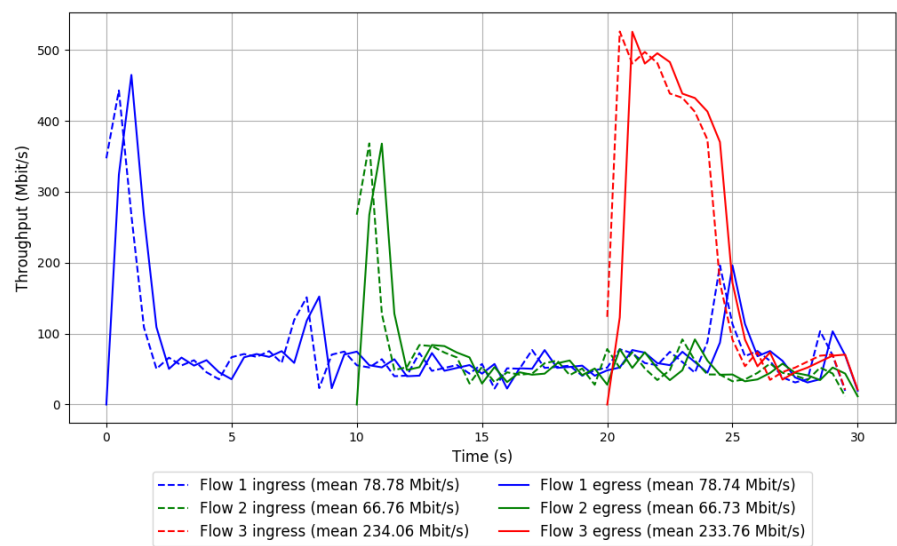
-- Flow 3:

Average throughput: 233.76 Mbit/s

95th percentile per-packet one-way delay: 2.942 ms

Loss rate: 0.12%

Run 3: Report of Muses\_DecisionTree — Data Link



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 00:49:10

End at: 2019-10-03 00:49:40

Local clock offset: 4.029 ms

Remote clock offset: 0.254 ms

# Below is generated by plot.py at 2019-10-03 02:24:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 520.50 Mbit/s

95th percentile per-packet one-way delay: 5.040 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 506.86 Mbit/s

95th percentile per-packet one-way delay: 5.101 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 13.97 Mbit/s

95th percentile per-packet one-way delay: 0.909 ms

Loss rate: 0.02%

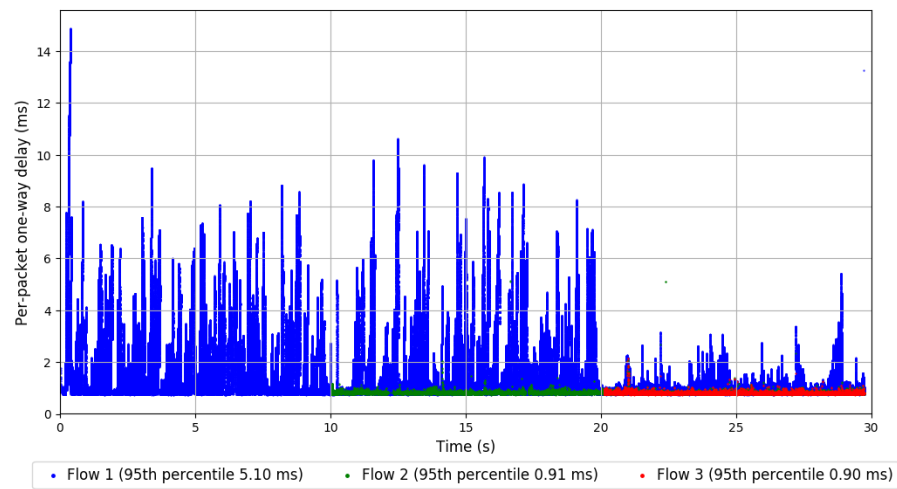
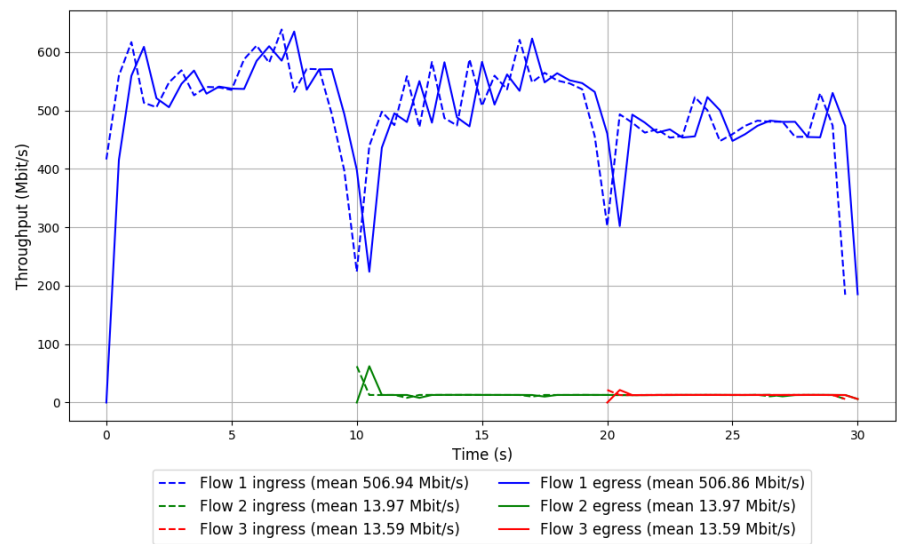
-- Flow 3:

Average throughput: 13.59 Mbit/s

95th percentile per-packet one-way delay: 0.899 ms

Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 01:24:17

End at: 2019-10-03 01:24:47

Local clock offset: 3.466 ms

Remote clock offset: 0.137 ms

# Below is generated by plot.py at 2019-10-03 02:24:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.50 Mbit/s

95th percentile per-packet one-way delay: 1.364 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.91 Mbit/s

95th percentile per-packet one-way delay: 1.652 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 15.22 Mbit/s

95th percentile per-packet one-way delay: 0.990 ms

Loss rate: 0.00%

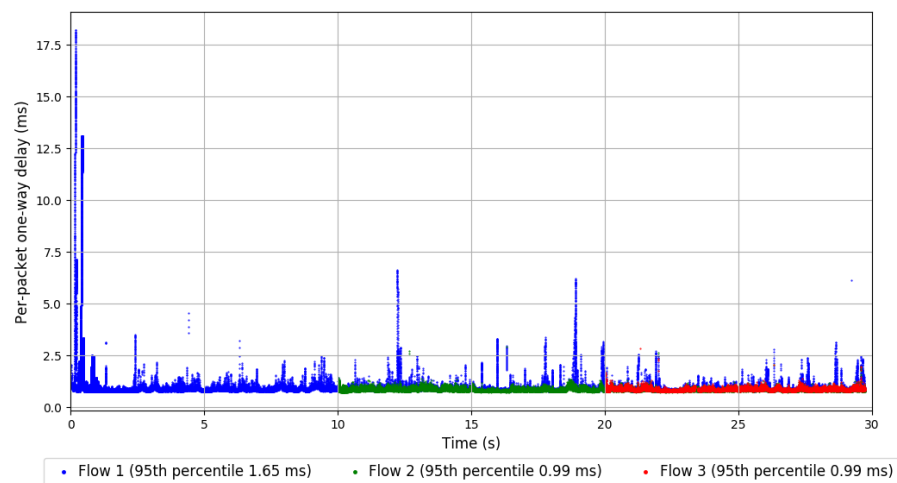
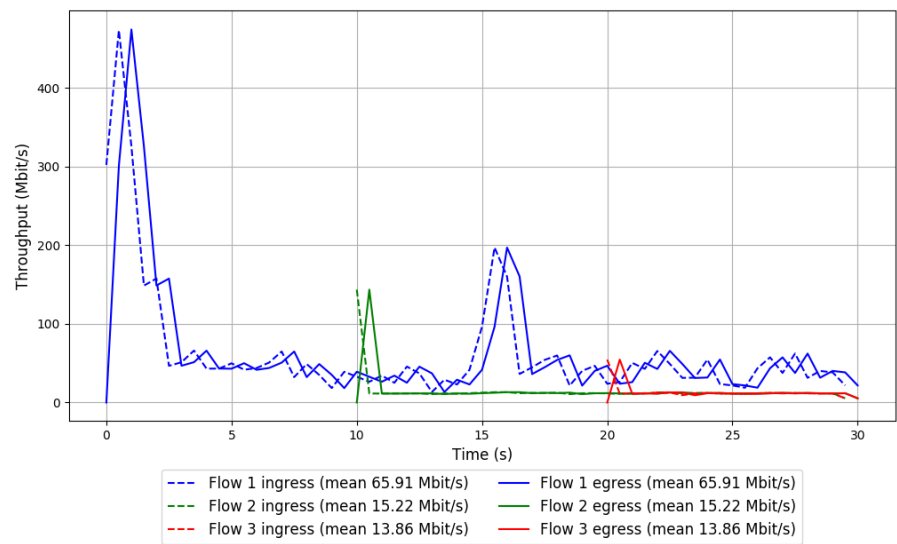
-- Flow 3:

Average throughput: 13.86 Mbit/s

95th percentile per-packet one-way delay: 0.990 ms

Loss rate: 0.01%

Run 5: Report of Muses\_DecisionTree — Data Link



Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 22:56:22

End at: 2019-10-02 22:56:52

Local clock offset: 2.803 ms

Remote clock offset: 0.478 ms

# Below is generated by plot.py at 2019-10-03 02:24:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 156.13 Mbit/s

95th percentile per-packet one-way delay: 9.985 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 1.213 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 11.71 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.02%

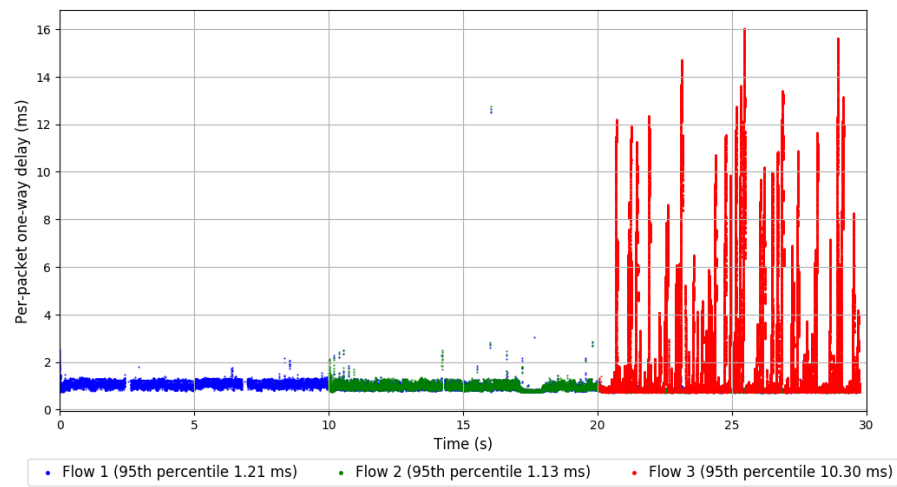
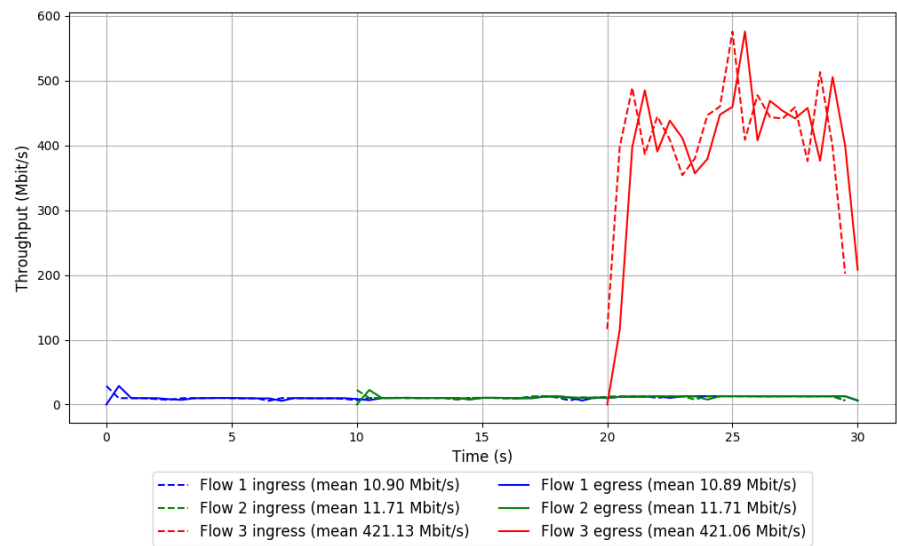
-- Flow 3:

Average throughput: 421.06 Mbit/s

95th percentile per-packet one-way delay: 10.299 ms

Loss rate: 0.02%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 23:31:13

End at: 2019-10-02 23:31:43

Local clock offset: 3.428 ms

Remote clock offset: 0.516 ms

# Below is generated by plot.py at 2019-10-03 02:24:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 163.86 Mbit/s

95th percentile per-packet one-way delay: 7.390 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 1.379 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 1.322 ms

Loss rate: 0.00%

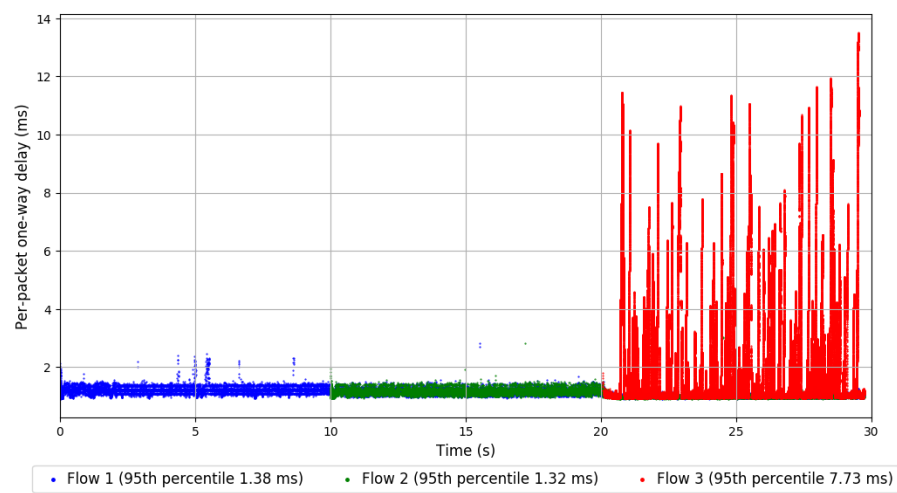
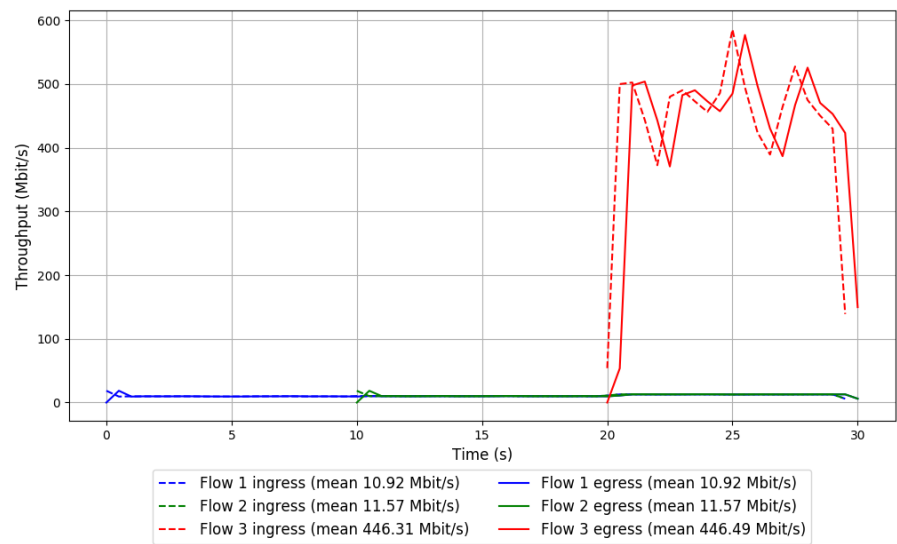
-- Flow 3:

Average throughput: 446.49 Mbit/s

95th percentile per-packet one-way delay: 7.734 ms

Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 00:06:05

End at: 2019-10-03 00:06:35

Local clock offset: 4.239 ms

Remote clock offset: 0.193 ms

# Below is generated by plot.py at 2019-10-03 02:27:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 596.01 Mbit/s

95th percentile per-packet one-way delay: 5.323 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 360.74 Mbit/s

95th percentile per-packet one-way delay: 6.304 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 270.34 Mbit/s

95th percentile per-packet one-way delay: 3.895 ms

Loss rate: 0.32%

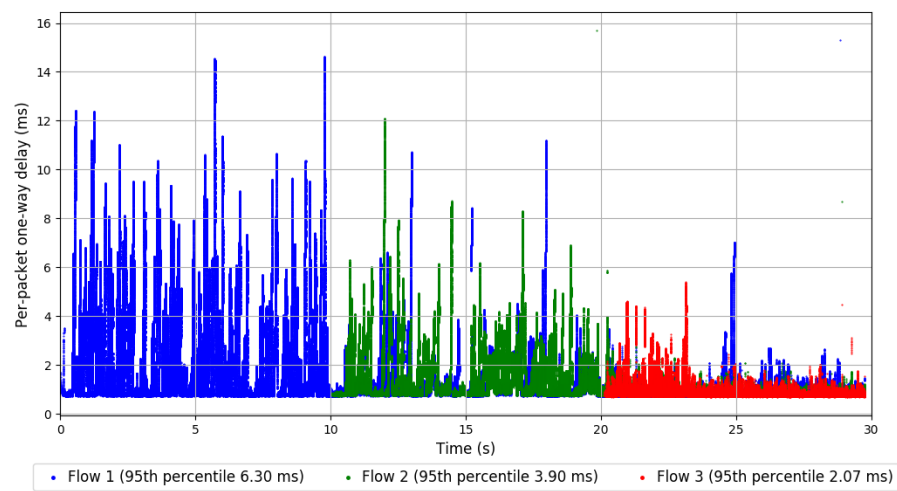
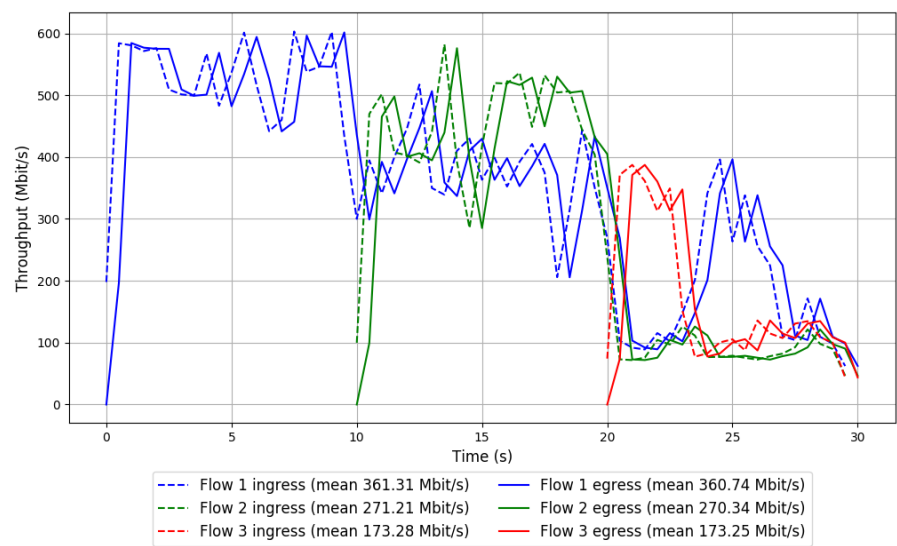
-- Flow 3:

Average throughput: 173.25 Mbit/s

95th percentile per-packet one-way delay: 2.071 ms

Loss rate: 0.01%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 00:41:19

End at: 2019-10-03 00:41:49

Local clock offset: 4.049 ms

Remote clock offset: 0.156 ms

# Below is generated by plot.py at 2019-10-03 02:28:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 705.63 Mbit/s

95th percentile per-packet one-way delay: 6.177 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 384.98 Mbit/s

95th percentile per-packet one-way delay: 7.685 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 288.14 Mbit/s

95th percentile per-packet one-way delay: 3.319 ms

Loss rate: 0.56%

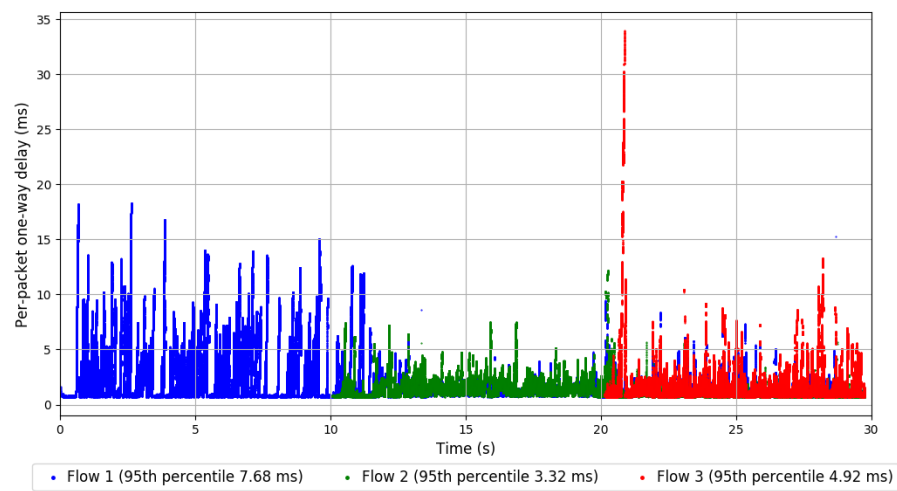
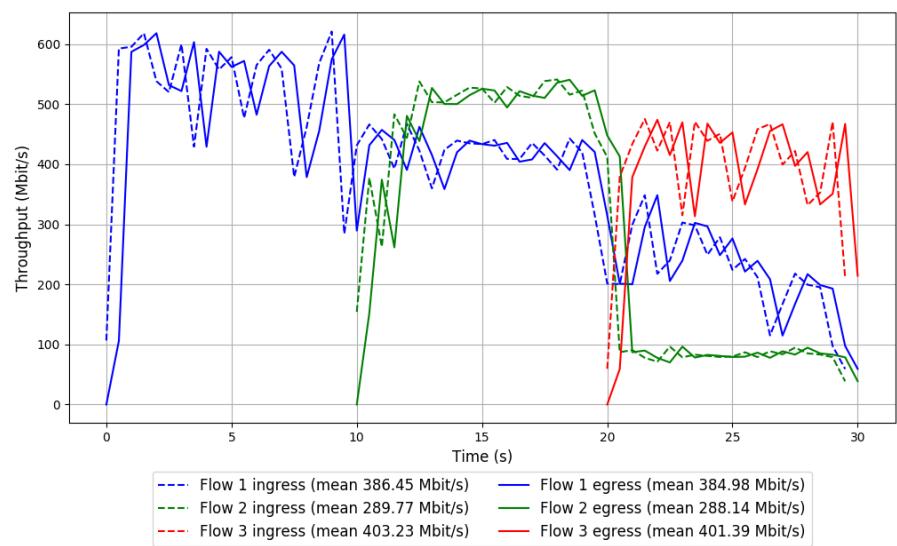
-- Flow 3:

Average throughput: 401.39 Mbit/s

95th percentile per-packet one-way delay: 4.925 ms

Loss rate: 0.45%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 01:16:31

End at: 2019-10-03 01:17:01

Local clock offset: 3.679 ms

Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2019-10-03 02:28:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 370.23 Mbit/s

95th percentile per-packet one-way delay: 4.951 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 355.61 Mbit/s

95th percentile per-packet one-way delay: 5.042 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 15.81 Mbit/s

95th percentile per-packet one-way delay: 0.808 ms

Loss rate: 0.01%

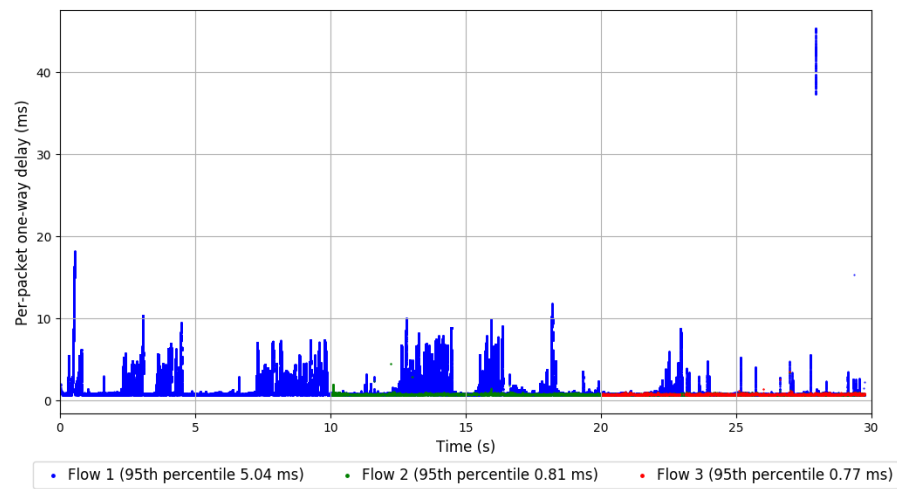
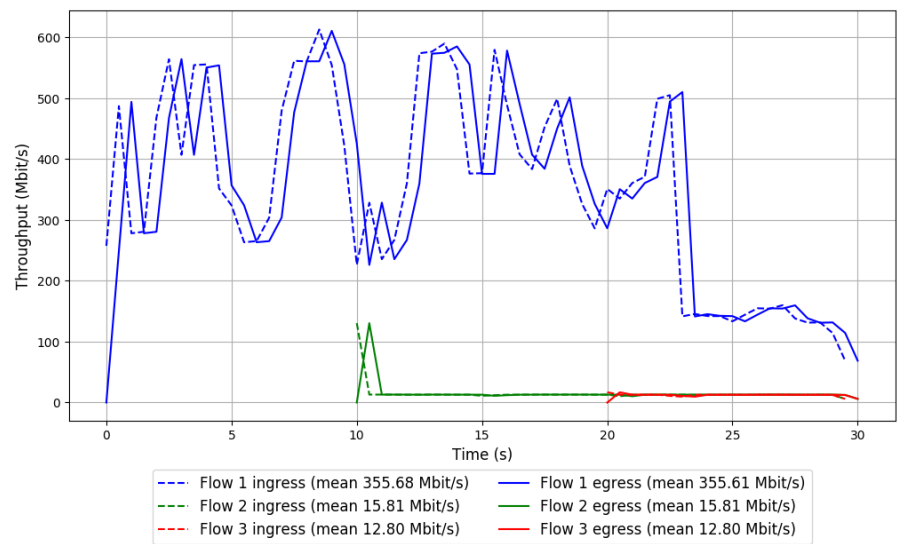
-- Flow 3:

Average throughput: 12.80 Mbit/s

95th percentile per-packet one-way delay: 0.773 ms

Loss rate: 0.02%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

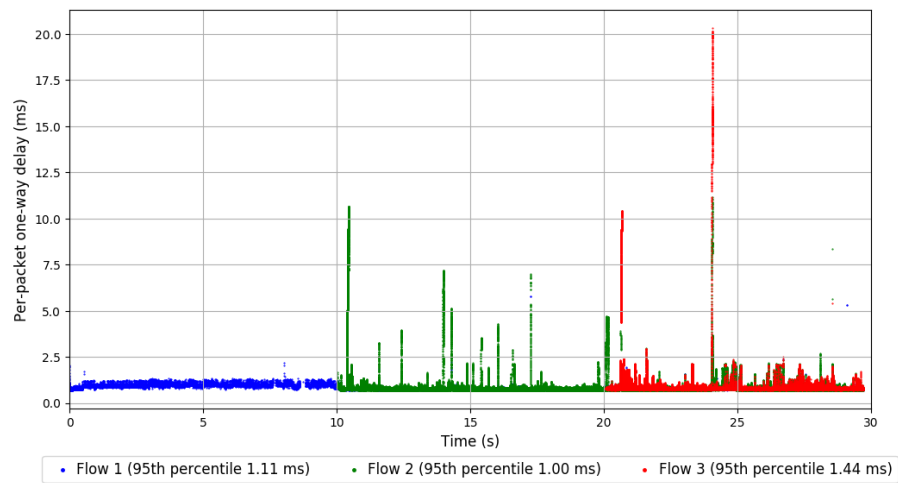
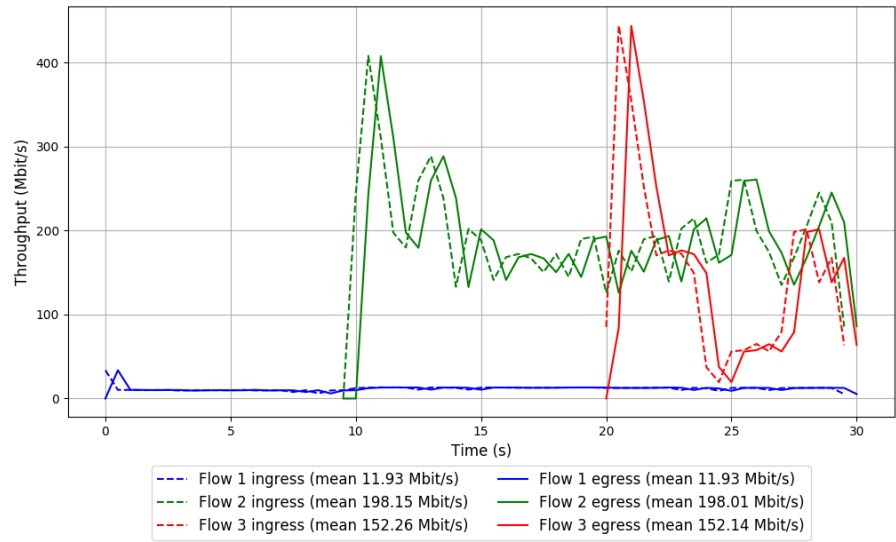


Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 22:43:42  
End at: 2019-10-02 22:44:12  
Local clock offset: 2.698 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-10-03 02:28:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 192.82 Mbit/s  
95th percentile per-packet one-way delay: 1.138 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 11.93 Mbit/s  
95th percentile per-packet one-way delay: 1.110 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 198.01 Mbit/s  
95th percentile per-packet one-way delay: 1.002 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 152.14 Mbit/s  
95th percentile per-packet one-way delay: 1.437 ms  
Loss rate: 0.08%

# Run 1: Report of Muses\_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 23:18:41

End at: 2019-10-02 23:19:11

Local clock offset: 2.731 ms

Remote clock offset: 1.191 ms

# Below is generated by plot.py at 2019-10-03 02:28:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.09 Mbit/s

95th percentile per-packet one-way delay: 1.250 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 10.03 Mbit/s

95th percentile per-packet one-way delay: 1.255 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.97 Mbit/s

95th percentile per-packet one-way delay: 1.248 ms

Loss rate: 0.02%

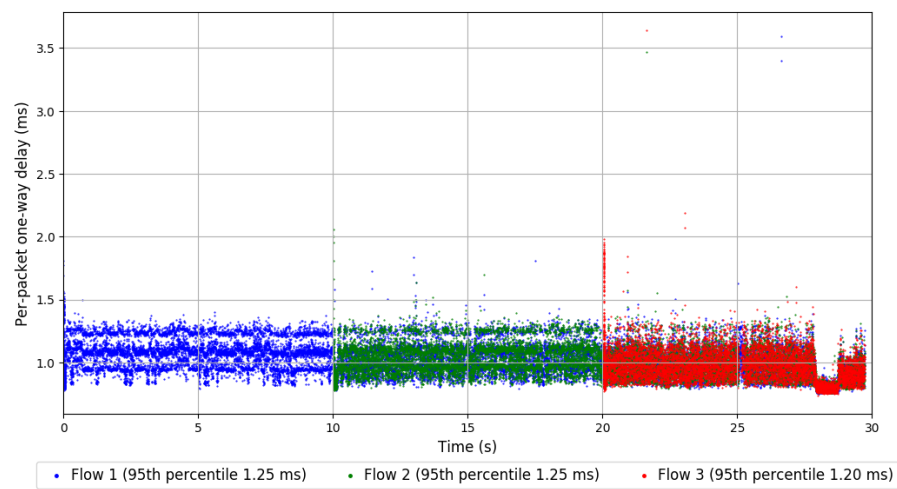
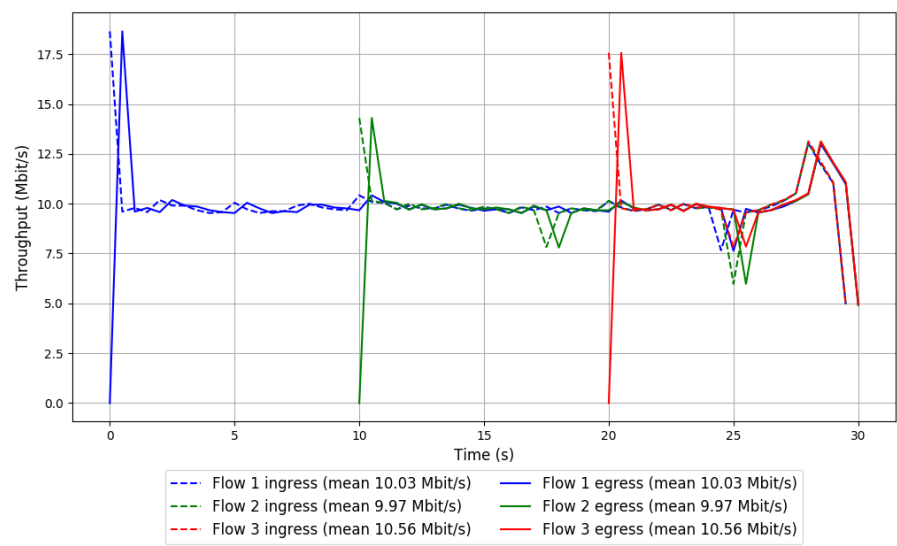
-- Flow 3:

Average throughput: 10.56 Mbit/s

95th percentile per-packet one-way delay: 1.198 ms

Loss rate: 0.01%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 23:53:18

End at: 2019-10-02 23:53:48

Local clock offset: 4.484 ms

Remote clock offset: 0.36 ms

# Below is generated by plot.py at 2019-10-03 02:28:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 438.66 Mbit/s

95th percentile per-packet one-way delay: 2.666 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 423.73 Mbit/s

95th percentile per-packet one-way delay: 2.719 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 16.18 Mbit/s

95th percentile per-packet one-way delay: 0.926 ms

Loss rate: 0.00%

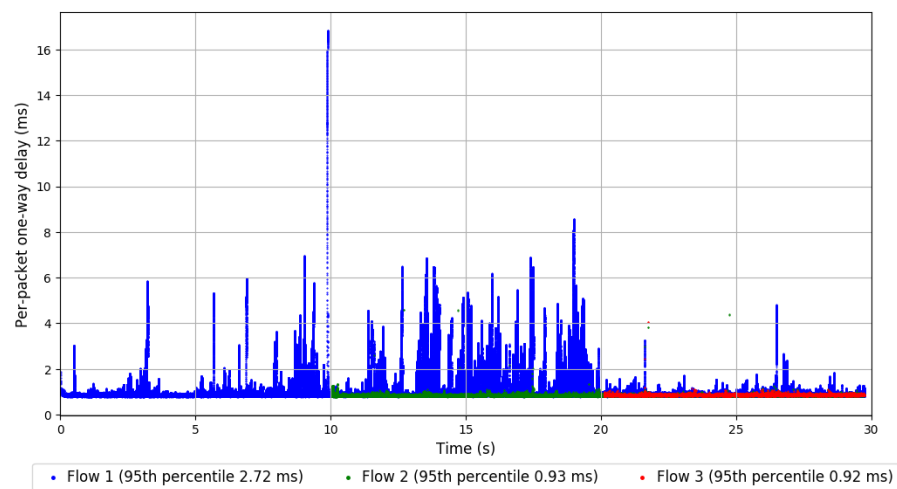
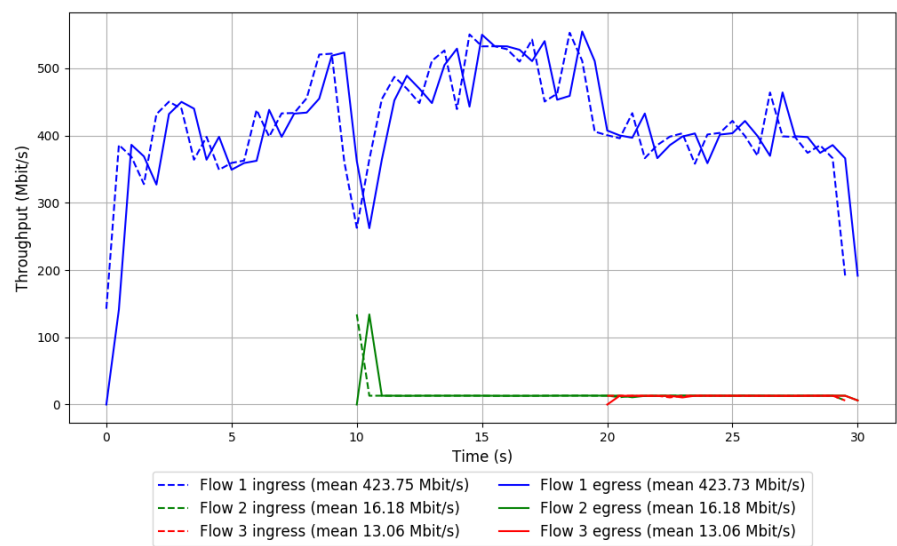
-- Flow 3:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 0.915 ms

Loss rate: 0.01%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 00:28:28

End at: 2019-10-03 00:28:58

Local clock offset: 4.186 ms

Remote clock offset: 0.27 ms

# Below is generated by plot.py at 2019-10-03 02:29:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 642.40 Mbit/s

95th percentile per-packet one-way delay: 3.373 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 360.68 Mbit/s

95th percentile per-packet one-way delay: 4.210 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 319.93 Mbit/s

95th percentile per-packet one-way delay: 2.324 ms

Loss rate: 0.08%

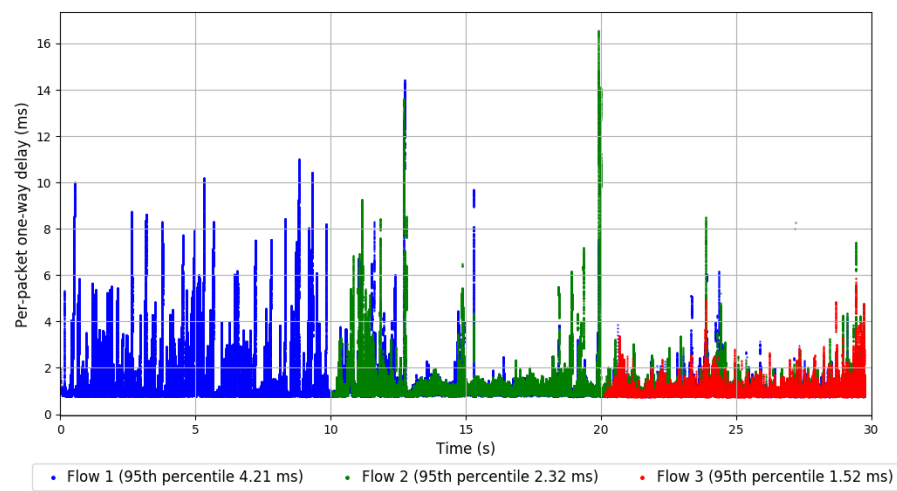
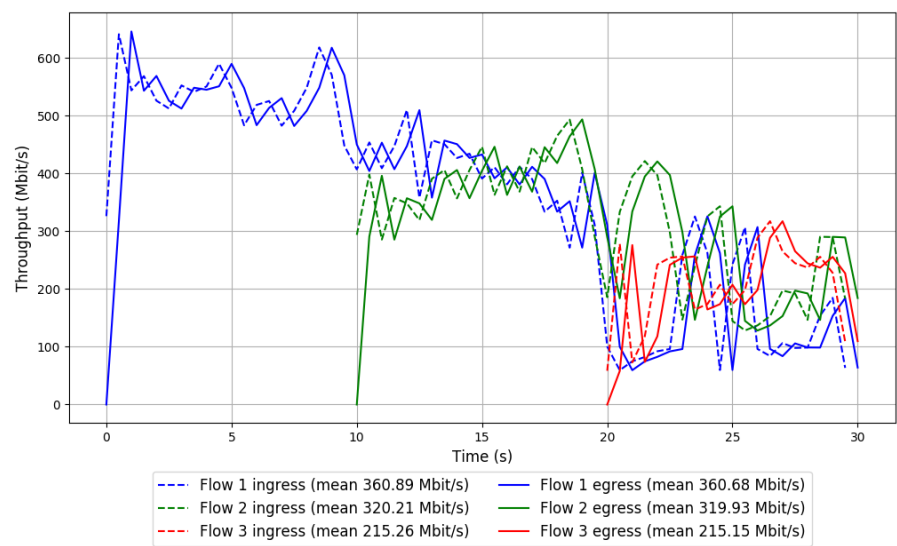
-- Flow 3:

Average throughput: 215.15 Mbit/s

95th percentile per-packet one-way delay: 1.521 ms

Loss rate: 0.05%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

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

End at: 2019-10-03 01:04:29

Local clock offset: 3.876 ms

Remote clock offset: 0.23 ms

# Below is generated by plot.py at 2019-10-03 02:29:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 289.80 Mbit/s

95th percentile per-packet one-way delay: 2.307 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 1.201 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 199.02 Mbit/s

95th percentile per-packet one-way delay: 1.007 ms

Loss rate: 0.04%

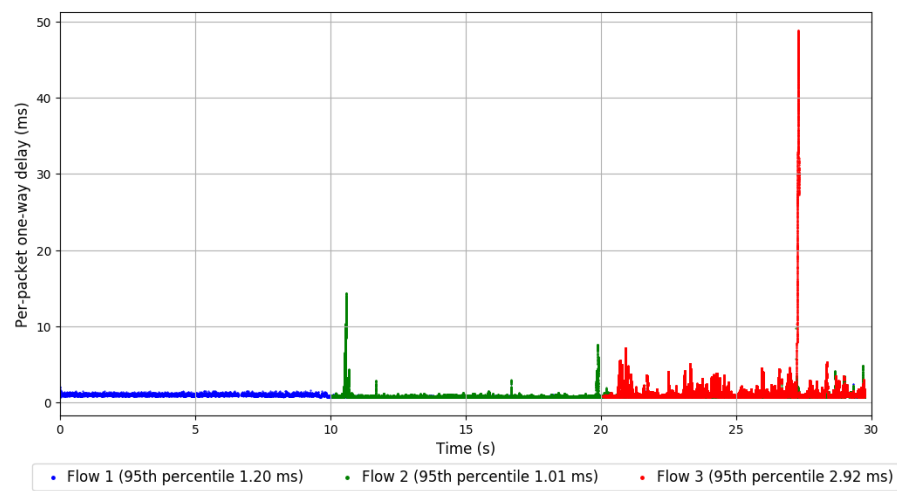
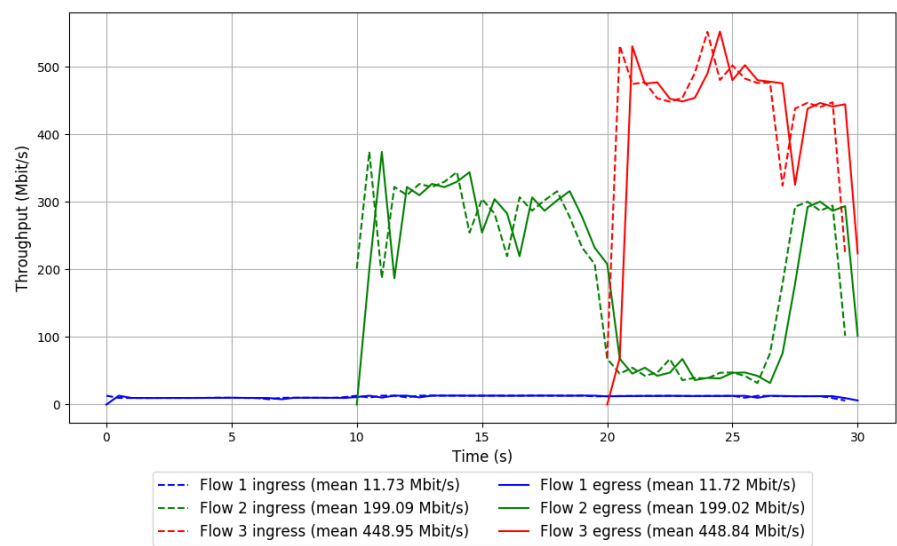
-- Flow 3:

Average throughput: 448.84 Mbit/s

95th percentile per-packet one-way delay: 2.919 ms

Loss rate: 0.04%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-10-02 22:59:23

End at: 2019-10-02 22:59:53

Local clock offset: 2.824 ms

Remote clock offset: 0.562 ms

# Below is generated by plot.py at 2019-10-03 02:34:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 909.41 Mbit/s

95th percentile per-packet one-way delay: 45.117 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 742.06 Mbit/s

95th percentile per-packet one-way delay: 49.789 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 228.36 Mbit/s

95th percentile per-packet one-way delay: 2.069 ms

Loss rate: 0.38%

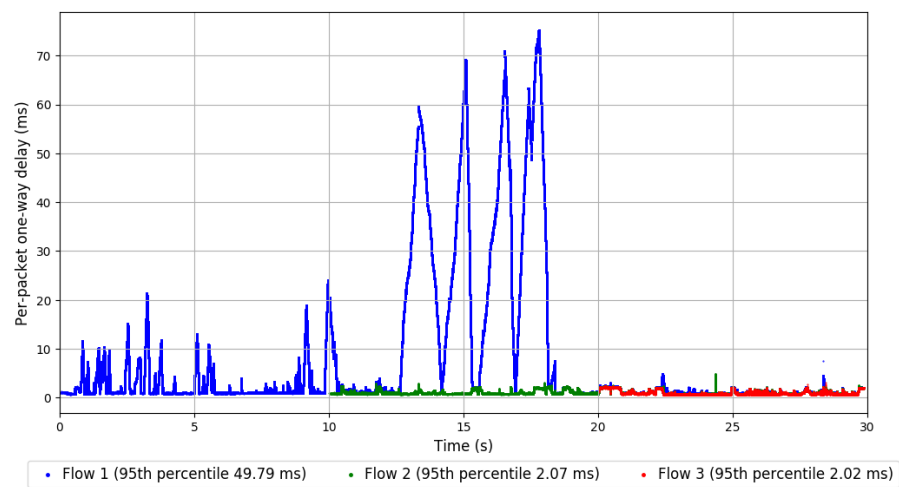
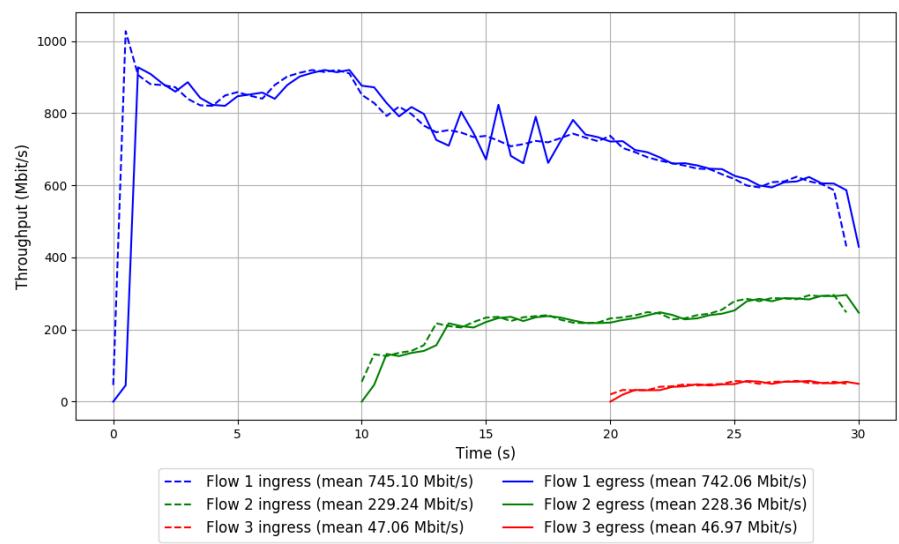
-- Flow 3:

Average throughput: 46.97 Mbit/s

95th percentile per-packet one-way delay: 2.022 ms

Loss rate: 0.19%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-10-02 23:34:11

End at: 2019-10-02 23:34:41

Local clock offset: 3.682 ms

Remote clock offset: 0.441 ms

# Below is generated by plot.py at 2019-10-03 02:34:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 618.97 Mbit/s

95th percentile per-packet one-way delay: 2.347 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 169.91 Mbit/s

95th percentile per-packet one-way delay: 2.276 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 591.13 Mbit/s

95th percentile per-packet one-way delay: 2.372 ms

Loss rate: 0.55%

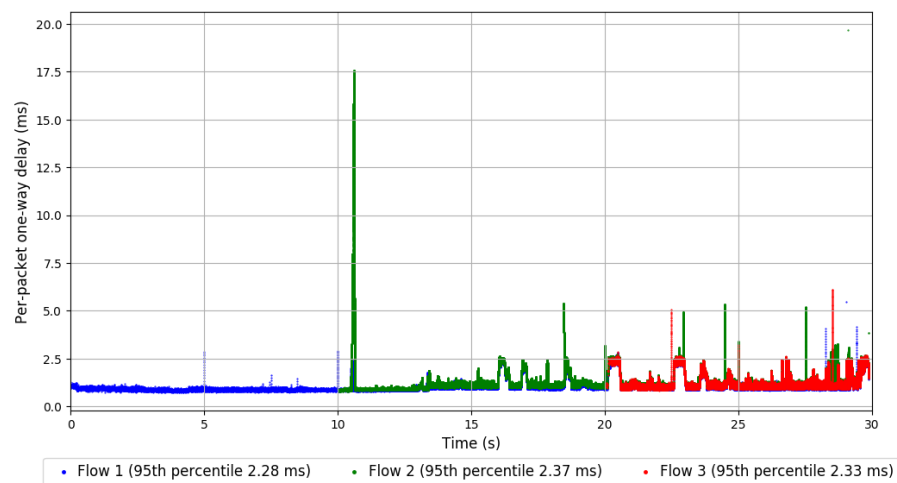
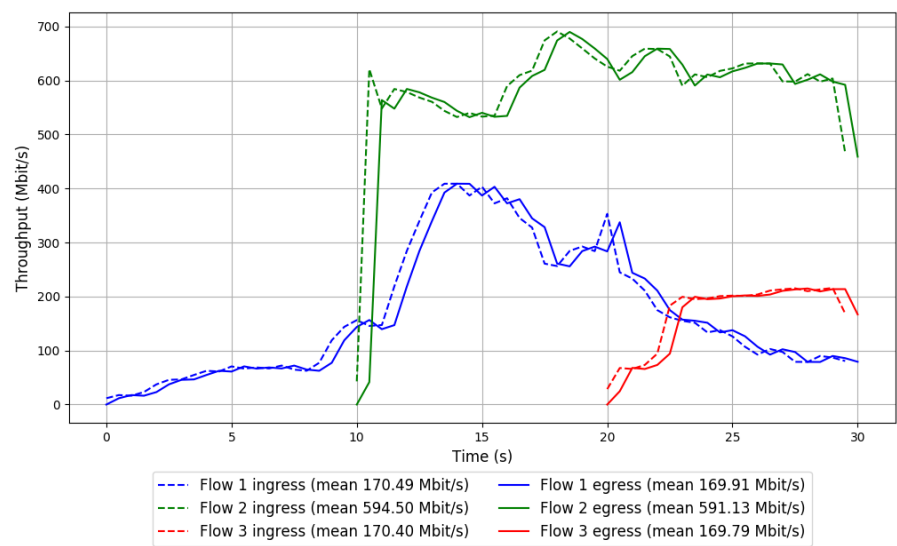
-- Flow 3:

Average throughput: 169.79 Mbit/s

95th percentile per-packet one-way delay: 2.330 ms

Loss rate: 0.35%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-10-03 00:09:18

End at: 2019-10-03 00:09:48

Local clock offset: 4.189 ms

Remote clock offset: 0.186 ms

# Below is generated by plot.py at 2019-10-03 02:34:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 775.95 Mbit/s

95th percentile per-packet one-way delay: 99.350 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 539.95 Mbit/s

95th percentile per-packet one-way delay: 101.749 ms

Loss rate: 2.12%

-- Flow 2:

Average throughput: 267.62 Mbit/s

95th percentile per-packet one-way delay: 2.253 ms

Loss rate: 0.35%

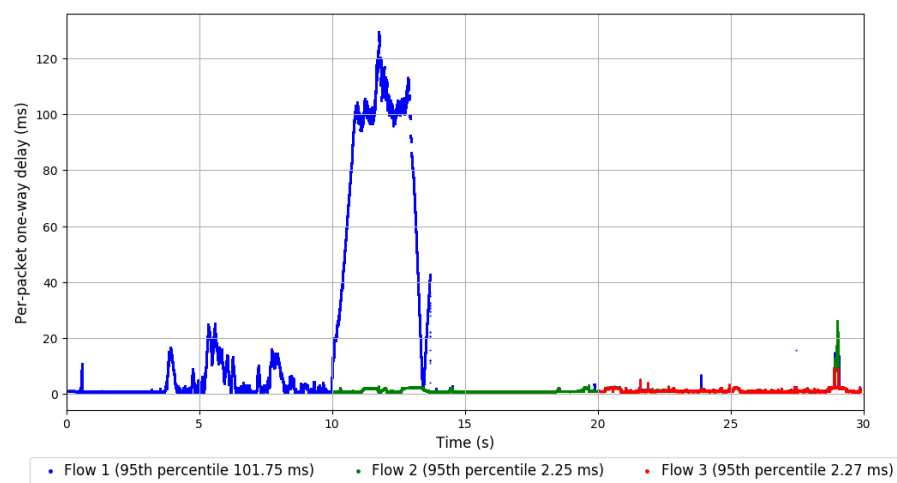
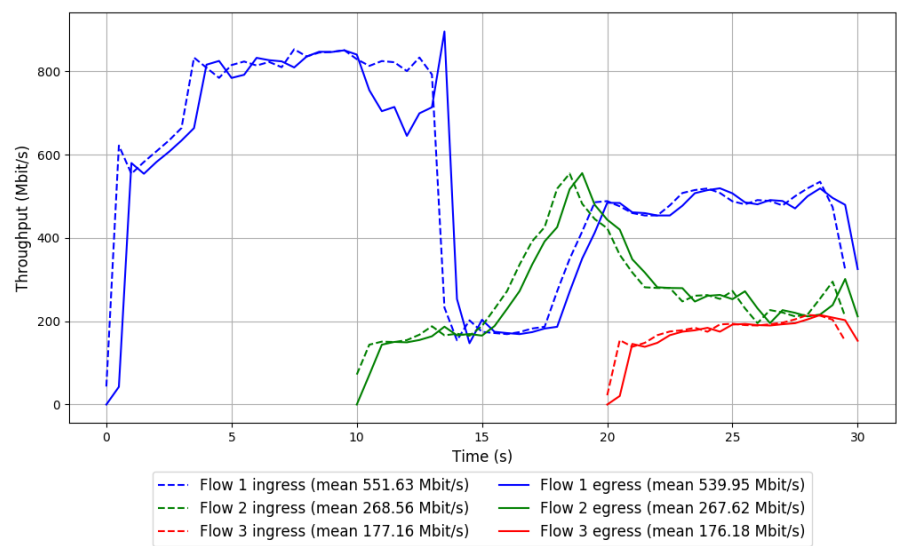
-- Flow 3:

Average throughput: 176.18 Mbit/s

95th percentile per-packet one-way delay: 2.269 ms

Loss rate: 0.55%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-10-03 00:44:38

End at: 2019-10-03 00:45:08

Local clock offset: 4.046 ms

Remote clock offset: 0.197 ms

# Below is generated by plot.py at 2019-10-03 02:34:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 633.38 Mbit/s

95th percentile per-packet one-way delay: 2.227 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 321.62 Mbit/s

95th percentile per-packet one-way delay: 2.192 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 440.92 Mbit/s

95th percentile per-packet one-way delay: 2.247 ms

Loss rate: 0.54%

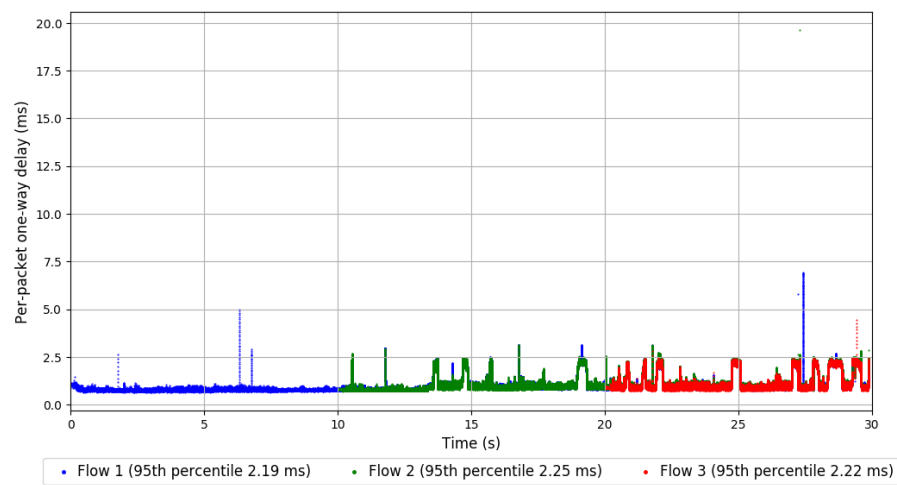
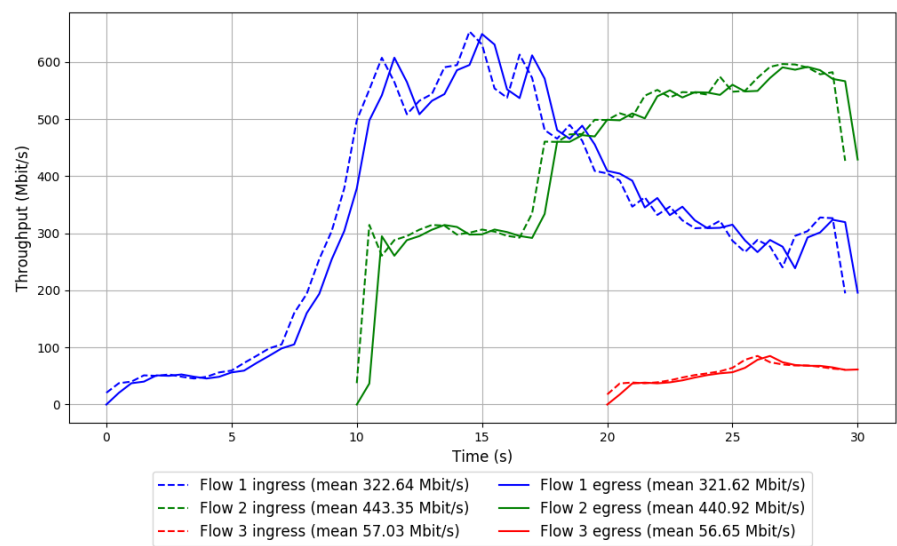
-- Flow 3:

Average throughput: 56.65 Mbit/s

95th percentile per-packet one-way delay: 2.216 ms

Loss rate: 0.66%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-10-03 01:19:39

End at: 2019-10-03 01:20:09

Local clock offset: 3.605 ms

Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 875.23 Mbit/s

95th percentile per-packet one-way delay: 11.290 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 783.54 Mbit/s

95th percentile per-packet one-way delay: 15.755 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 116.23 Mbit/s

95th percentile per-packet one-way delay: 1.986 ms

Loss rate: 0.35%

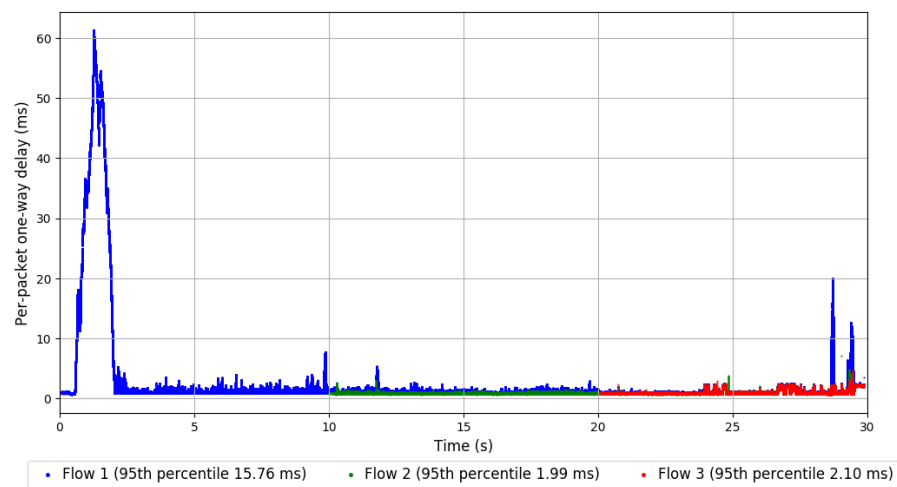
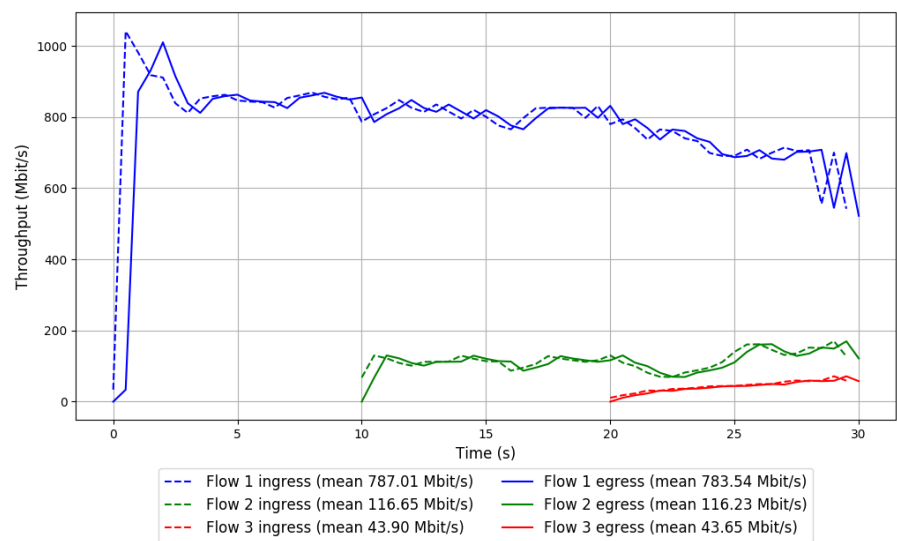
-- Flow 3:

Average throughput: 43.65 Mbit/s

95th percentile per-packet one-way delay: 2.097 ms

Loss rate: 0.58%

Run 5: Report of PCC-Allegro — Data Link

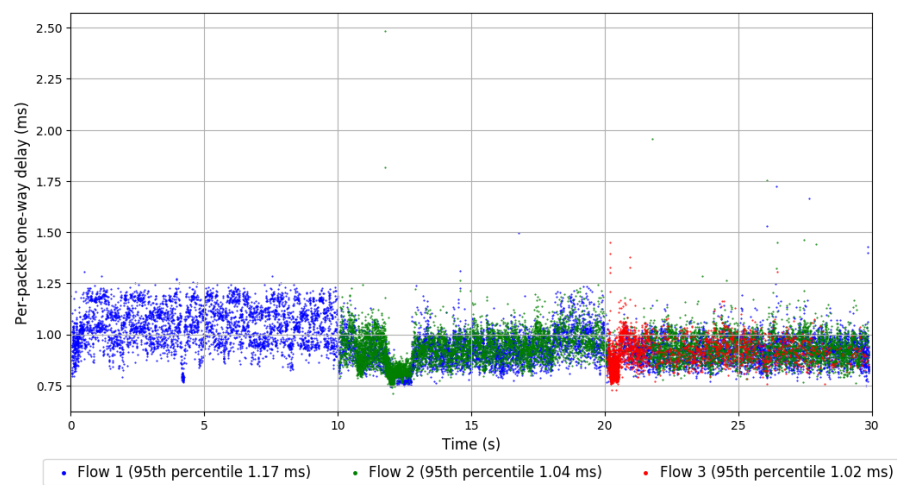
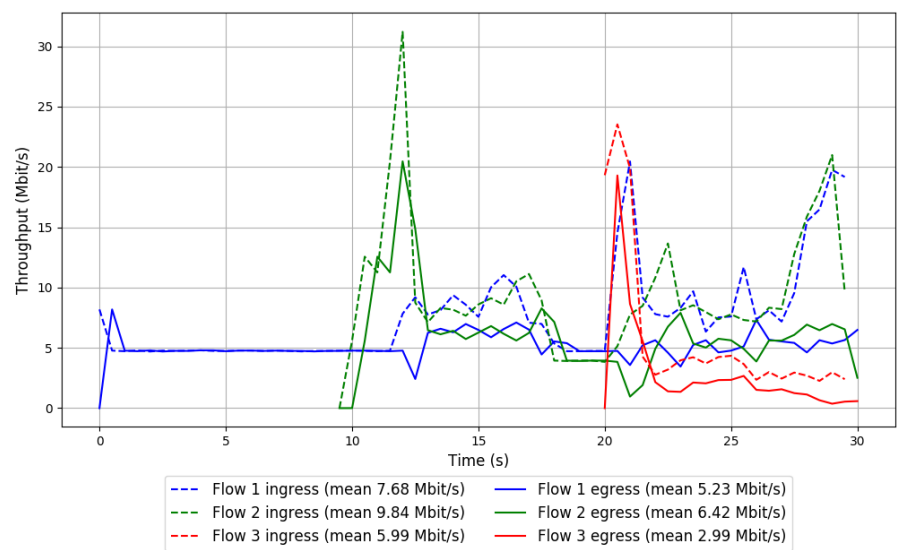


```
Run 1: Statistics of PCC-Expr

Start at: 2019-10-02 23:11:57
End at: 2019-10-02 23:12:27
Local clock offset: 2.769 ms
Remote clock offset: 0.977 ms

# Below is generated by plot.py at 2019-10-03 02:37:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.48 Mbit/s
95th percentile per-packet one-way delay: 1.115 ms
Loss rate: 35.34%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 31.98%
-- Flow 2:
Average throughput: 6.42 Mbit/s
95th percentile per-packet one-way delay: 1.044 ms
Loss rate: 34.81%
-- Flow 3:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 1.021 ms
Loss rate: 50.11%
```

Run 1: Report of PCC-Expr — Data Link

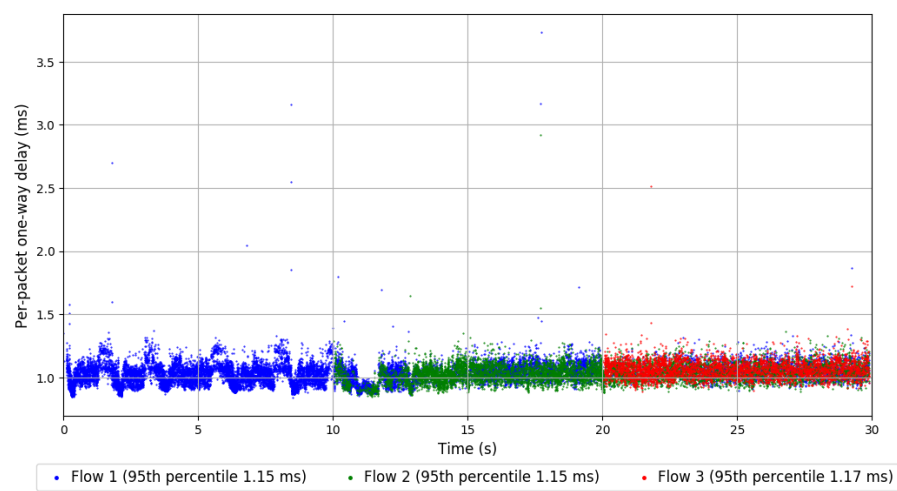
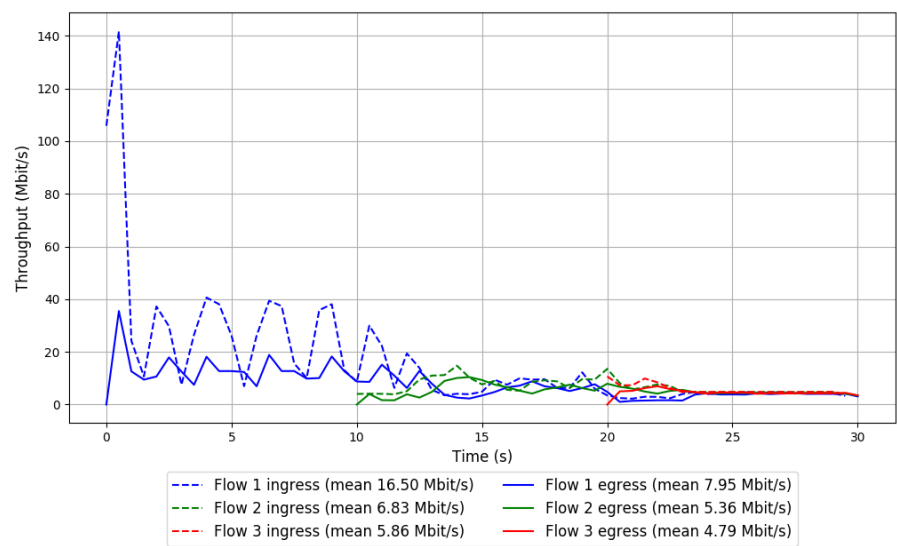


```
Run 2: Statistics of PCC-Expr

Start at: 2019-10-02 23:46:29
End at: 2019-10-02 23:46:59
Local clock offset: 4.242 ms
Remote clock offset: 0.369 ms

# Below is generated by plot.py at 2019-10-03 02:37:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.09 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 43.03%
-- Flow 1:
Average throughput: 7.95 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 51.83%
-- Flow 2:
Average throughput: 5.36 Mbit/s
95th percentile per-packet one-way delay: 1.146 ms
Loss rate: 21.62%
-- Flow 3:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 1.173 ms
Loss rate: 18.26%
```

Run 2: Report of PCC-Expr — Data Link

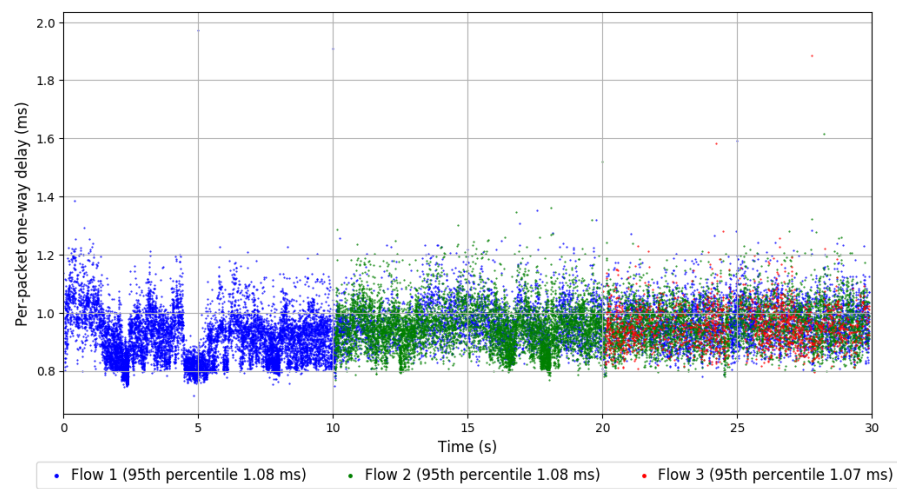
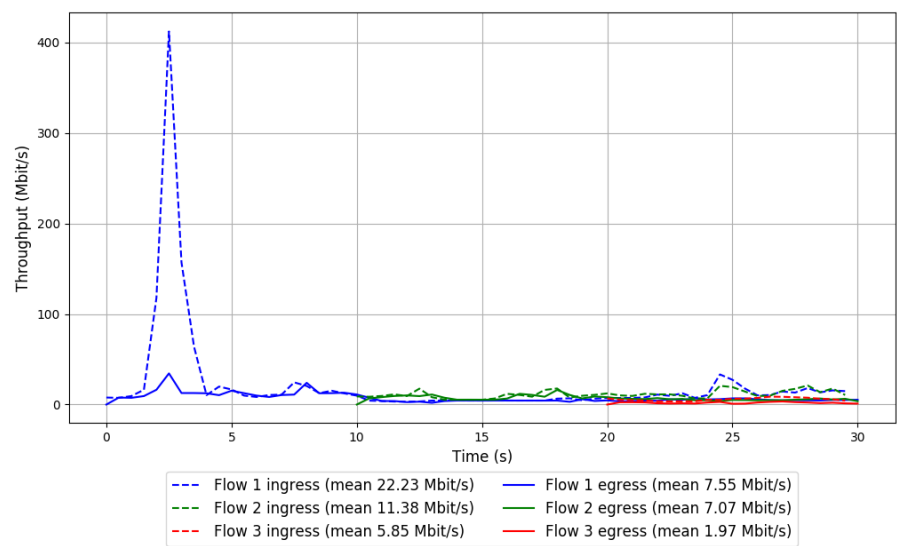


```
Run 3: Statistics of PCC-Expr

Start at: 2019-10-03 00:21:35
End at: 2019-10-03 00:22:05
Local clock offset: 4.264 ms
Remote clock offset: 0.192 ms

# Below is generated by plot.py at 2019-10-03 02:37:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.91 Mbit/s
95th percentile per-packet one-way delay: 1.077 ms
Loss rate: 59.33%
-- Flow 1:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 66.03%
-- Flow 2:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 1.080 ms
Loss rate: 37.87%
-- Flow 3:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 1.073 ms
Loss rate: 66.32%
```

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-10-03 00:56:46

End at: 2019-10-03 00:57:16

Local clock offset: 3.952 ms

Remote clock offset: 0.247 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.01 Mbit/s

95th percentile per-packet one-way delay: 1.069 ms

Loss rate: 98.53%

-- Flow 1:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 1.088 ms

Loss rate: 97.82%

-- Flow 2:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 98.68%

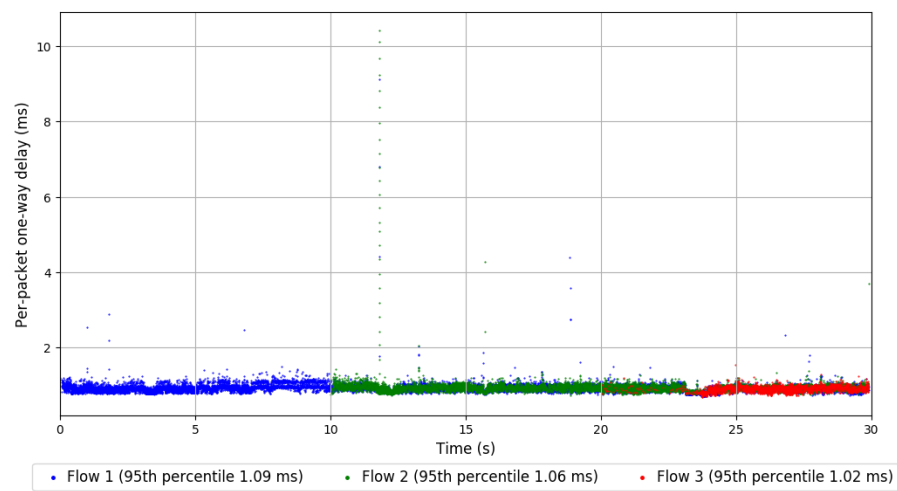
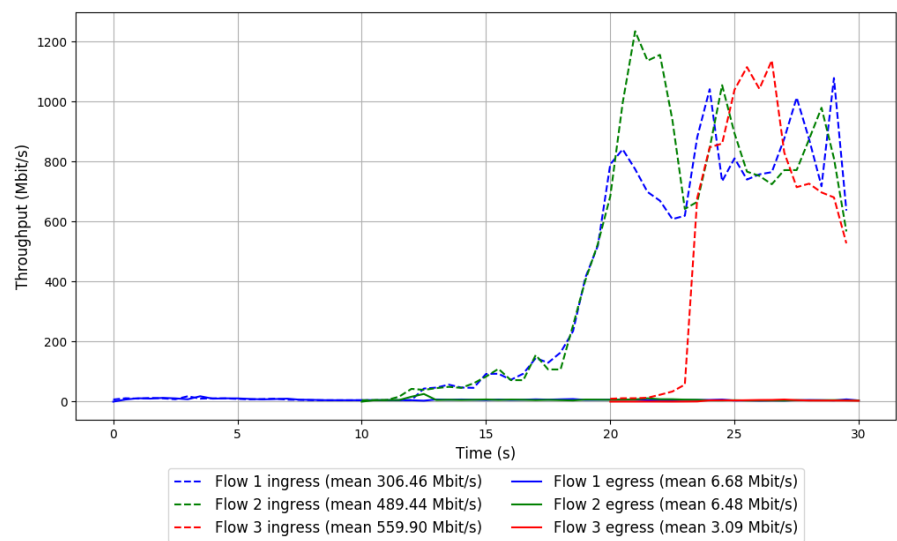
-- Flow 3:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 1.017 ms

Loss rate: 99.45%

Run 4: Report of PCC-Expr — Data Link

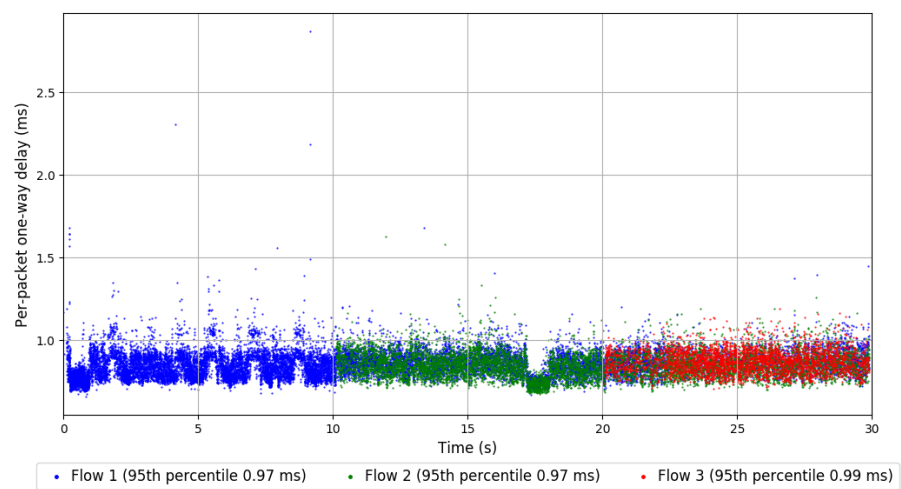
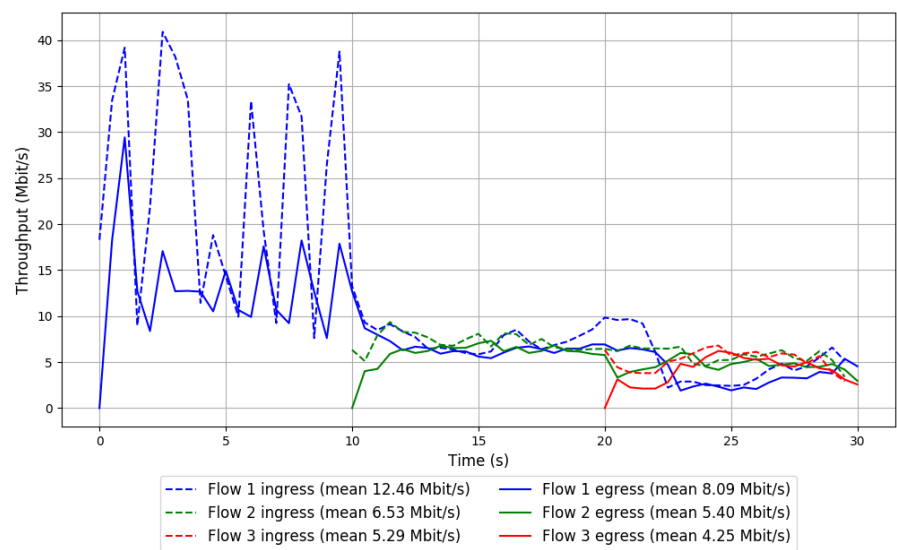


```
Run 5: Statistics of PCC-Expr

Start at: 2019-10-03 01:31:52
End at: 2019-10-03 01:32:22
Local clock offset: 3.265 ms
Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2019-10-03 02:37:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.09 Mbit/s
95th percentile per-packet one-way delay: 0.975 ms
Loss rate: 29.47%
-- Flow 1:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 0.973 ms
Loss rate: 35.10%
-- Flow 2:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 0.971 ms
Loss rate: 17.27%
-- Flow 3:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 0.988 ms
Loss rate: 19.62%
```

Run 5: Report of PCC-Expr — Data Link

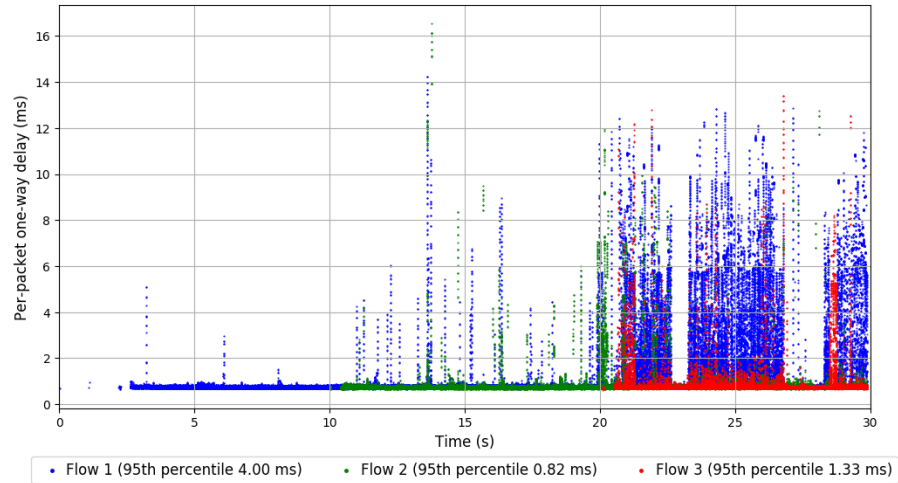
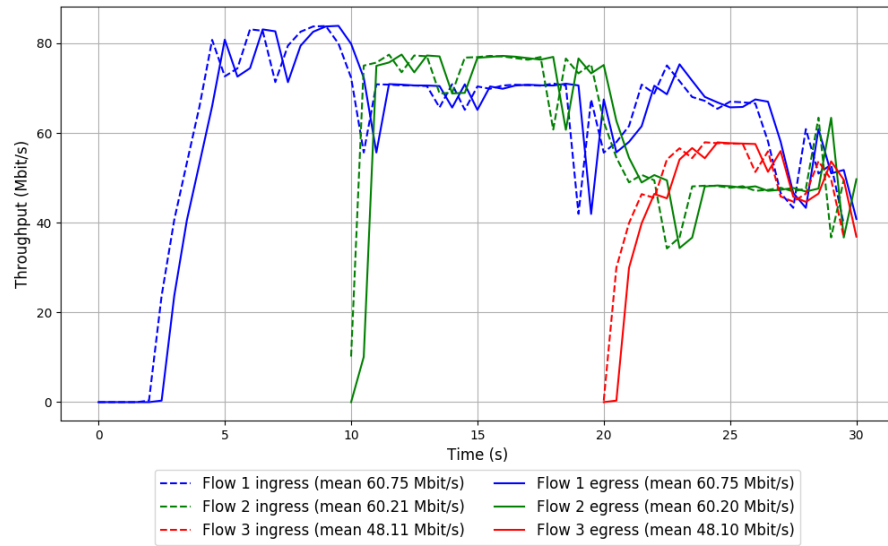


Run 1: Statistics of QUIC Cubic

Start at: 2019-10-02 22:38:13  
End at: 2019-10-02 22:38:43  
Local clock offset: 2.592 ms  
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2019-10-03 02:37:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 116.51 Mbit/s  
95th percentile per-packet one-way delay: 2.615 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 60.75 Mbit/s  
95th percentile per-packet one-way delay: 4.004 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 60.20 Mbit/s  
95th percentile per-packet one-way delay: 0.825 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 48.10 Mbit/s  
95th percentile per-packet one-way delay: 1.329 ms  
Loss rate: 0.03%

## Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-10-02 23:13:13

End at: 2019-10-02 23:13:43

Local clock offset: 2.8 ms

Remote clock offset: 1.073 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 128.12 Mbit/s

95th percentile per-packet one-way delay: 0.878 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 68.39 Mbit/s

95th percentile per-packet one-way delay: 0.878 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 65.32 Mbit/s

95th percentile per-packet one-way delay: 0.863 ms

Loss rate: 0.02%

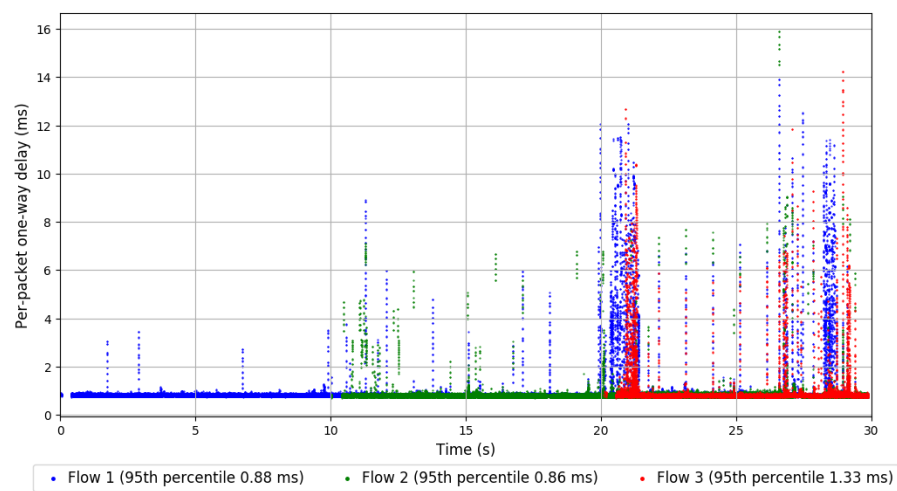
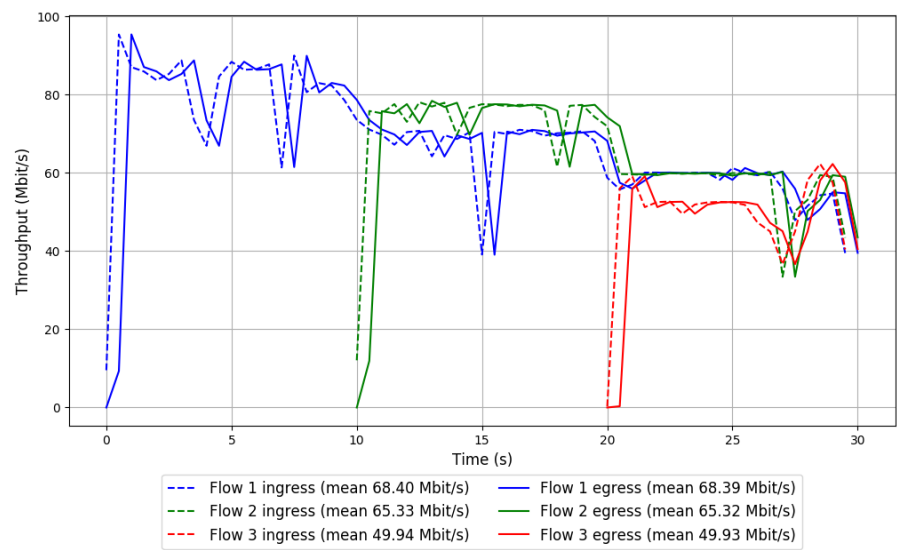
-- Flow 3:

Average throughput: 49.93 Mbit/s

95th percentile per-packet one-way delay: 1.330 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-10-02 23:47:44

End at: 2019-10-02 23:48:14

Local clock offset: 4.311 ms

Remote clock offset: 0.266 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 121.87 Mbit/s

95th percentile per-packet one-way delay: 0.870 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 61.96 Mbit/s

95th percentile per-packet one-way delay: 0.818 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 66.79 Mbit/s

95th percentile per-packet one-way delay: 2.264 ms

Loss rate: 0.01%

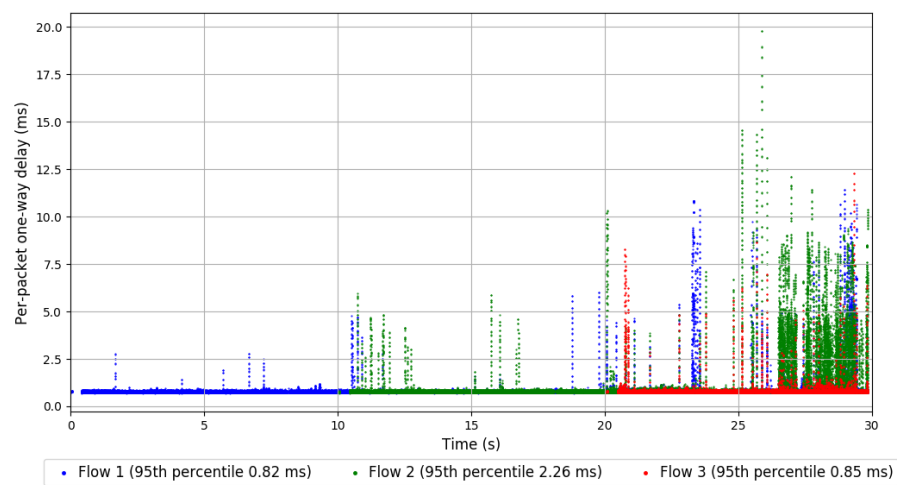
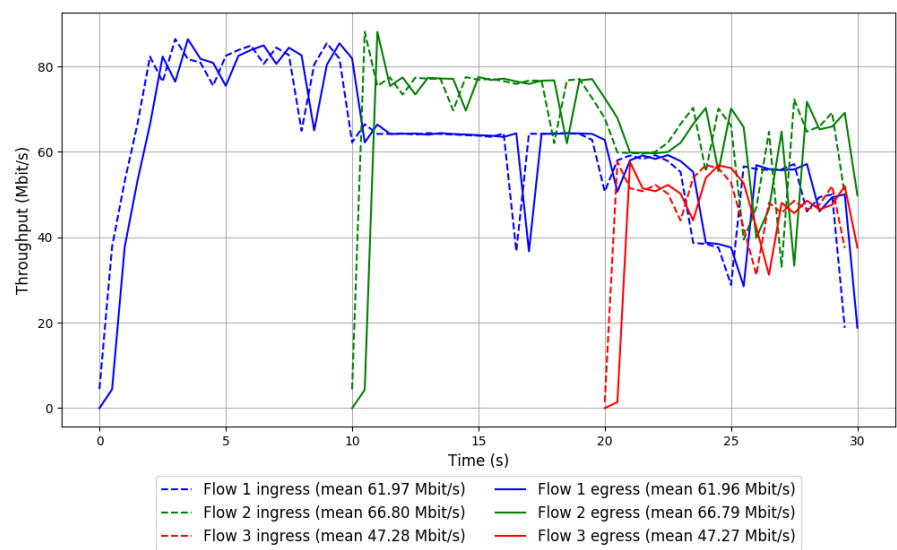
-- Flow 3:

Average throughput: 47.27 Mbit/s

95th percentile per-packet one-way delay: 0.851 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-10-03 00:22:51

End at: 2019-10-03 00:23:21

Local clock offset: 4.276 ms

Remote clock offset: 0.228 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 123.85 Mbit/s

95th percentile per-packet one-way delay: 1.040 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.29 Mbit/s

95th percentile per-packet one-way delay: 0.932 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.89 Mbit/s

95th percentile per-packet one-way delay: 3.044 ms

Loss rate: 0.00%

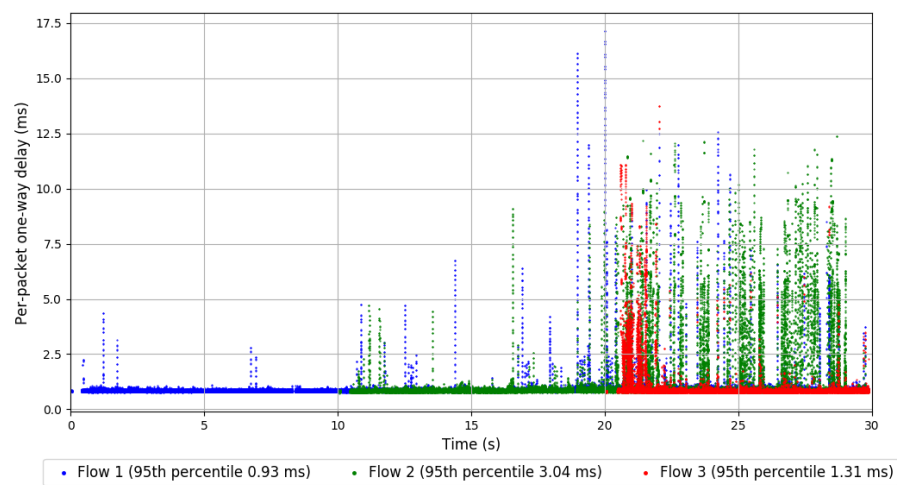
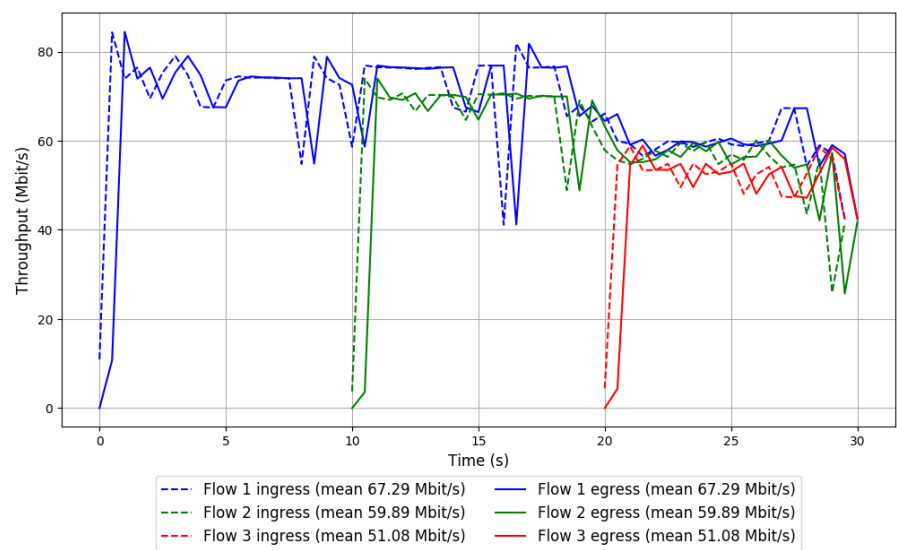
-- Flow 3:

Average throughput: 51.08 Mbit/s

95th percentile per-packet one-way delay: 1.308 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-10-03 00:58:11

End at: 2019-10-03 00:58:41

Local clock offset: 3.946 ms

Remote clock offset: 0.228 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 124.75 Mbit/s

95th percentile per-packet one-way delay: 2.859 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 68.20 Mbit/s

95th percentile per-packet one-way delay: 0.921 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 59.11 Mbit/s

95th percentile per-packet one-way delay: 3.550 ms

Loss rate: 0.02%

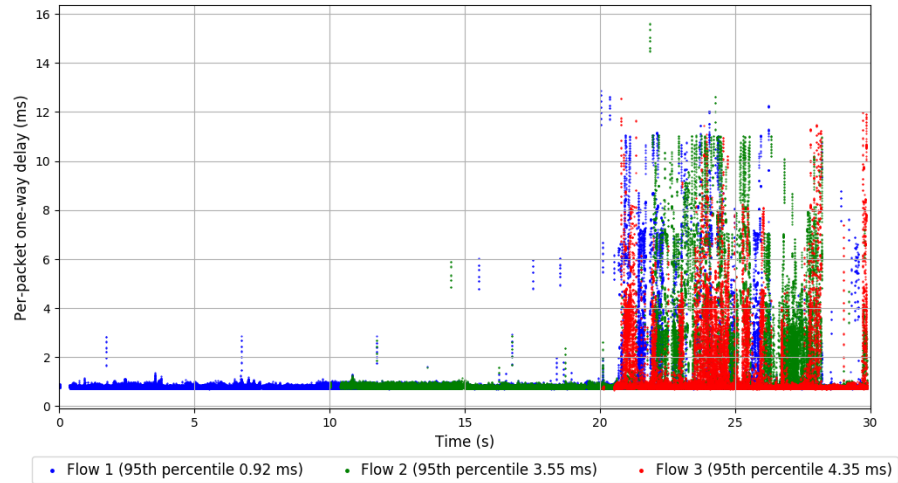
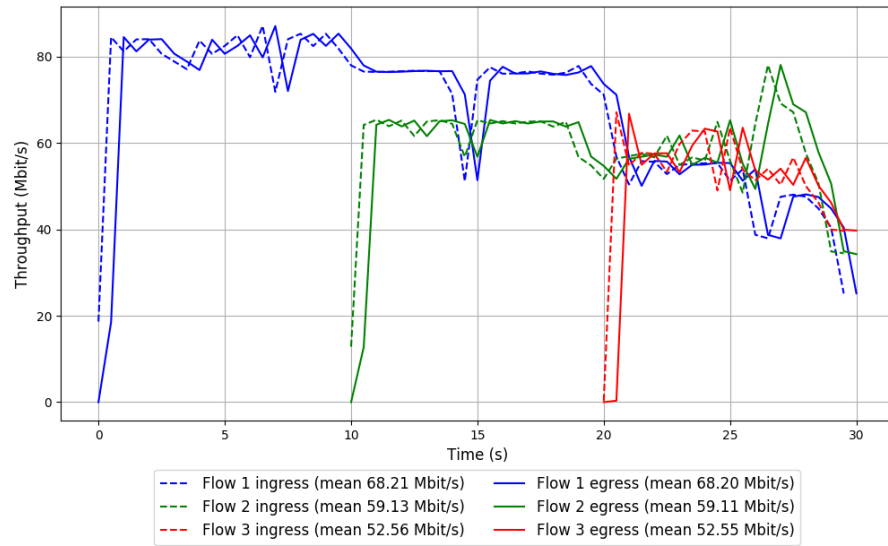
-- Flow 3:

Average throughput: 52.55 Mbit/s

95th percentile per-packet one-way delay: 4.354 ms

Loss rate: 0.01%

## Run 5: Report of QUIC Cubic — Data Link

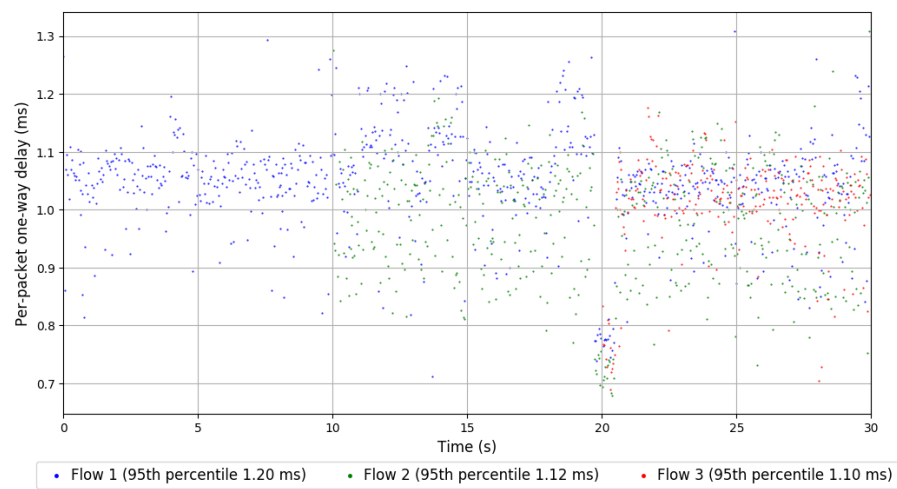
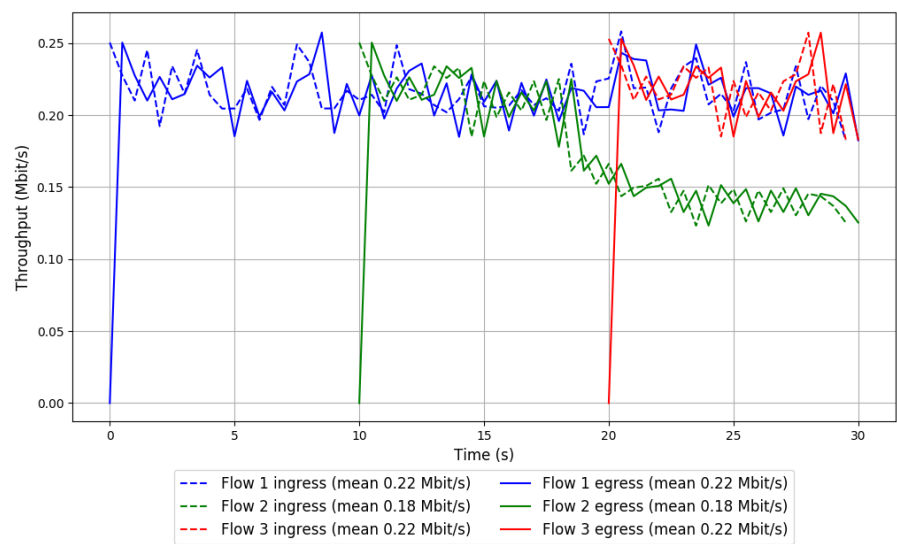


```
Run 1: Statistics of SCReAM

Start at: 2019-10-02 22:52:20
End at: 2019-10-02 22:52:50
Local clock offset: 2.779 ms
Remote clock offset: 0.304 ms

# Below is generated by plot.py at 2019-10-03 02:37:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 1.146 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.200 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 1.125 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

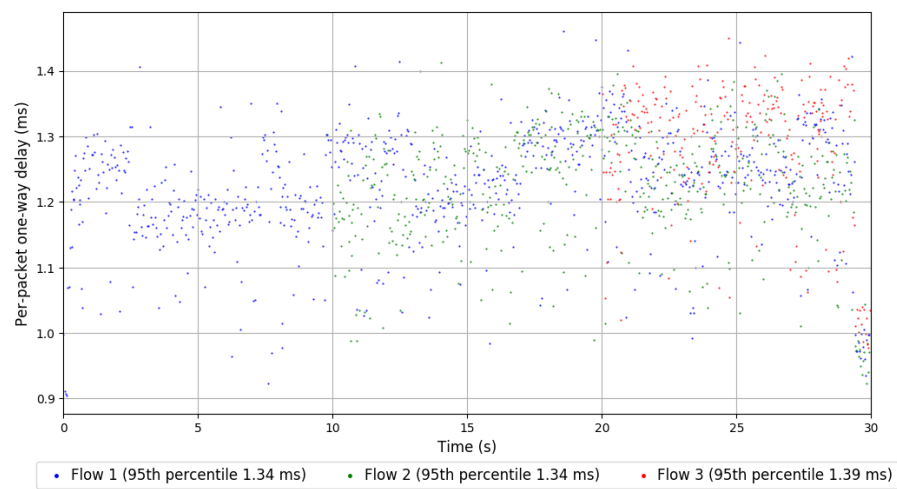
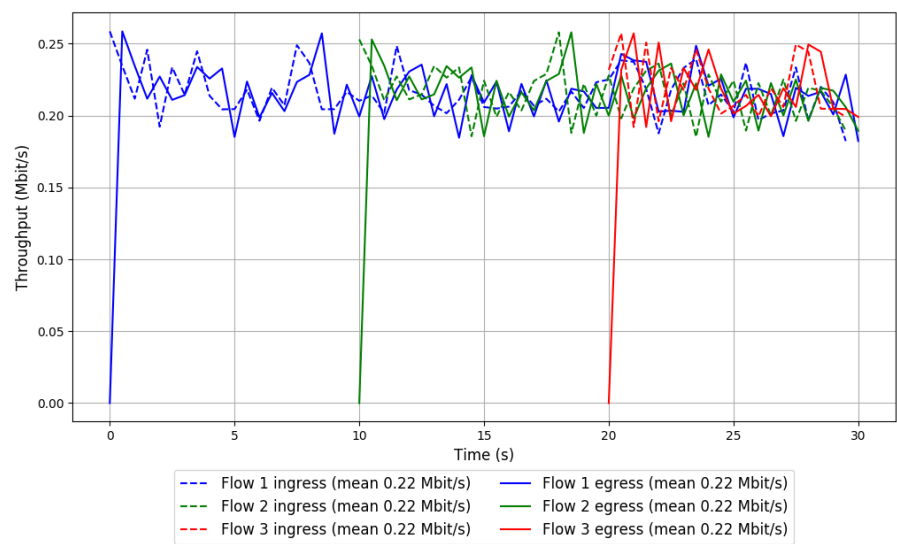


Run 2: Statistics of SReAM

Start at: 2019-10-02 23:27:10  
End at: 2019-10-02 23:27:40  
Local clock offset: 3.016 ms  
Remote clock offset: 0.633 ms

# Below is generated by plot.py at 2019-10-03 02:37:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.361 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.337 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.337 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.390 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2019-10-03 00:02:03

End at: 2019-10-03 00:02:33

Local clock offset: 4.279 ms

Remote clock offset: 0.198 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.165 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.152 ms

Loss rate: 0.00%

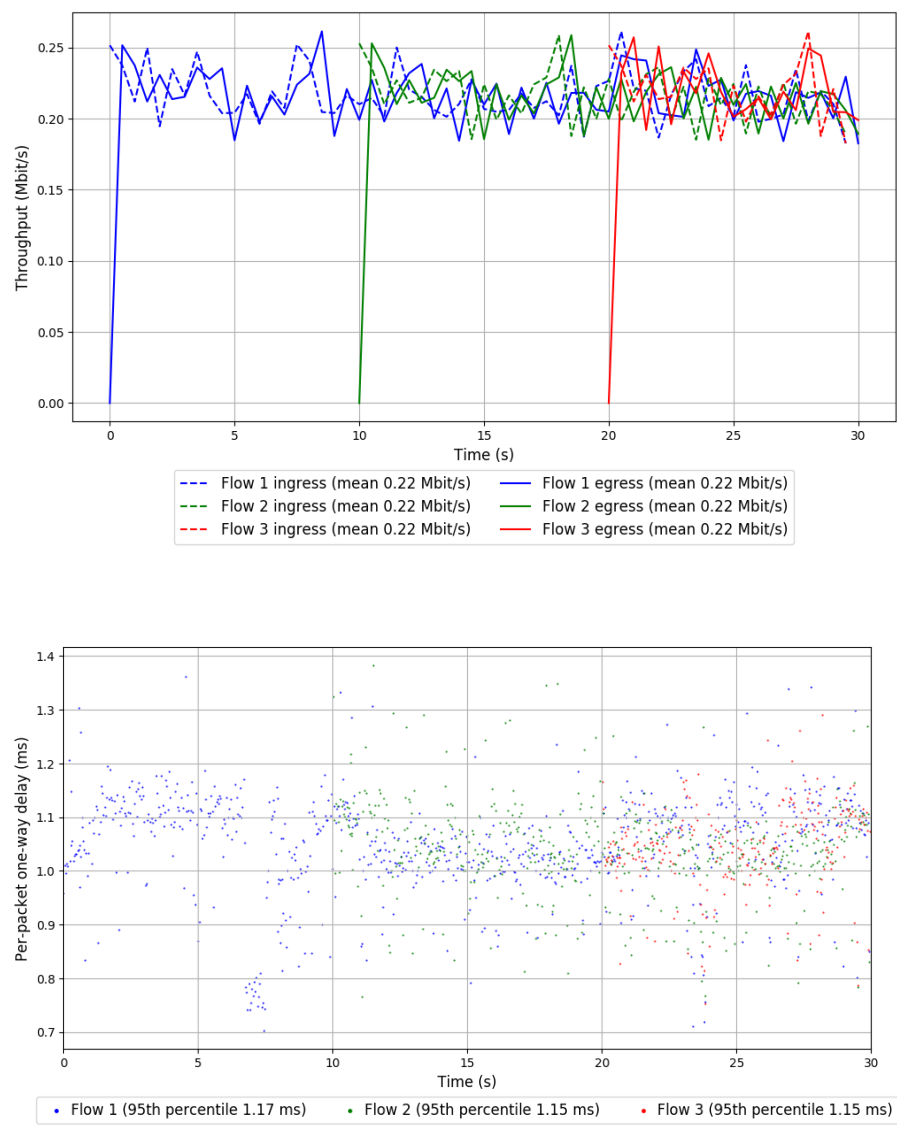
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2019-10-03 00:37:17

End at: 2019-10-03 00:37:47

Local clock offset: 4.054 ms

Remote clock offset: 0.177 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.180 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.193 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.00%

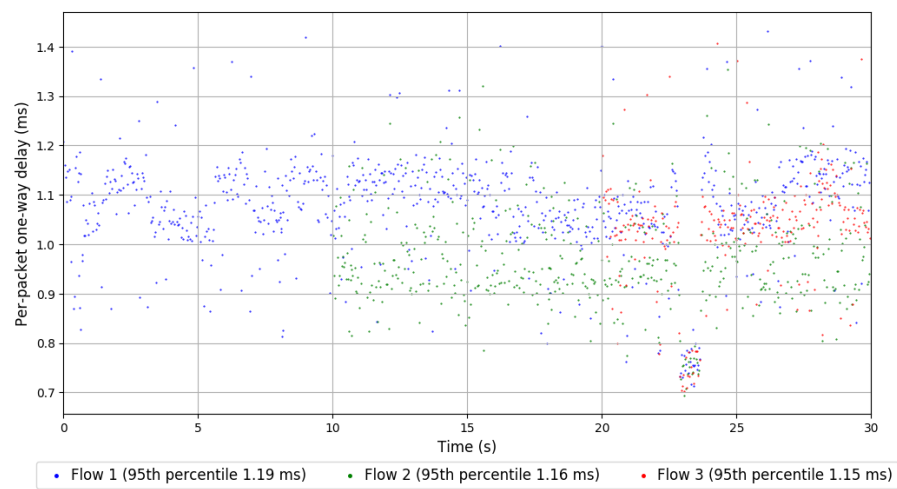
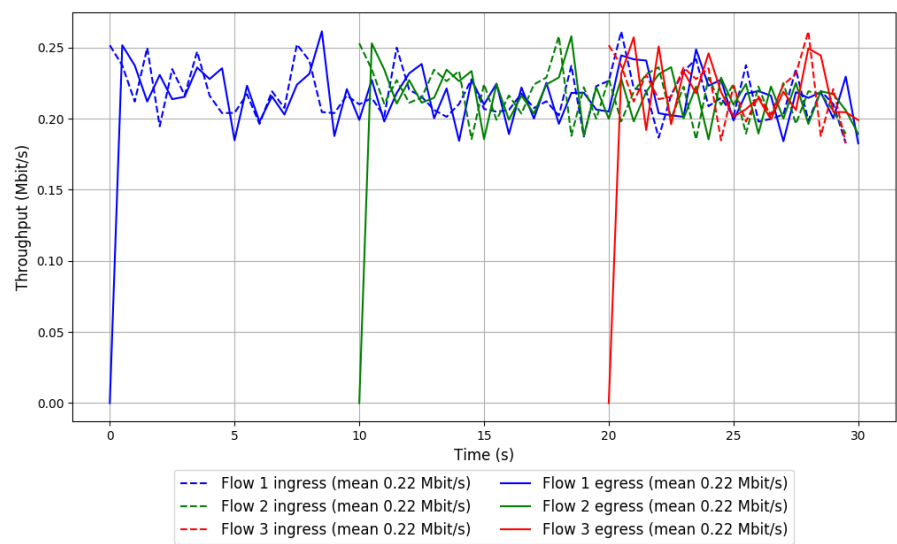
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2019-10-03 01:12:32

End at: 2019-10-03 01:13:02

Local clock offset: 3.769 ms

Remote clock offset: 0.213 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.305 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.334 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.262 ms

Loss rate: 0.00%

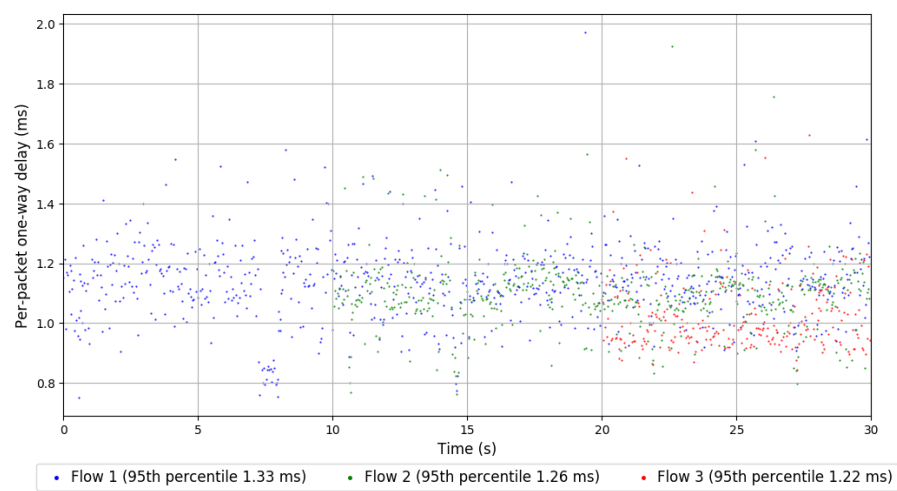
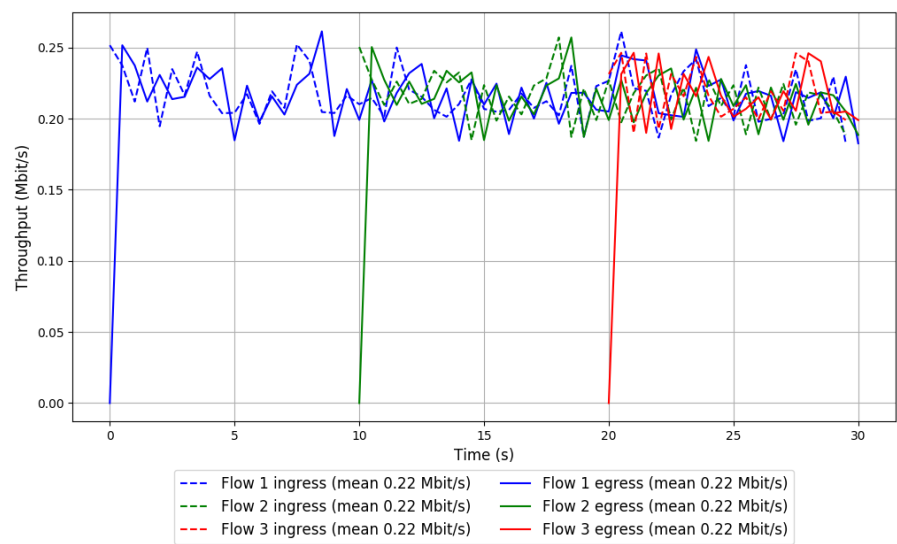
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.221 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-10-02 22:51:03

End at: 2019-10-02 22:51:33

Local clock offset: 2.782 ms

Remote clock offset: 0.308 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.19 Mbit/s

95th percentile per-packet one-way delay: 4.769 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 24.67 Mbit/s

95th percentile per-packet one-way delay: 4.389 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 49.78 Mbit/s

95th percentile per-packet one-way delay: 4.907 ms

Loss rate: 0.12%

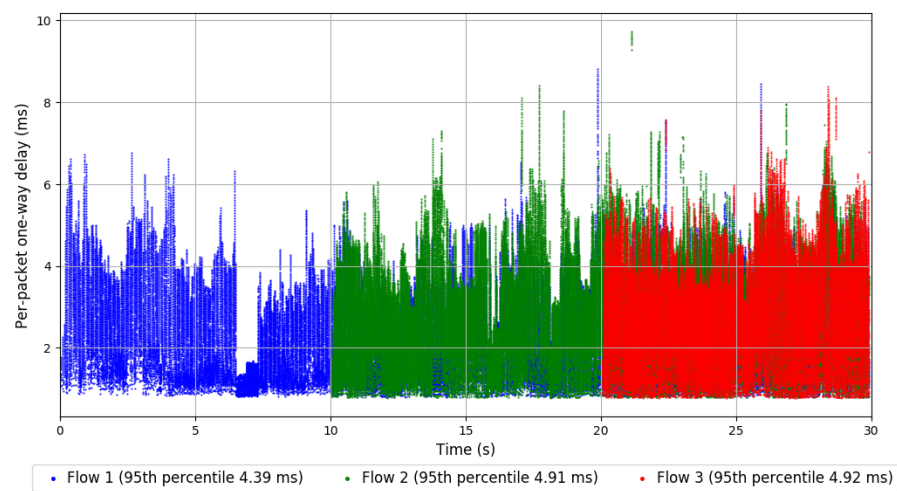
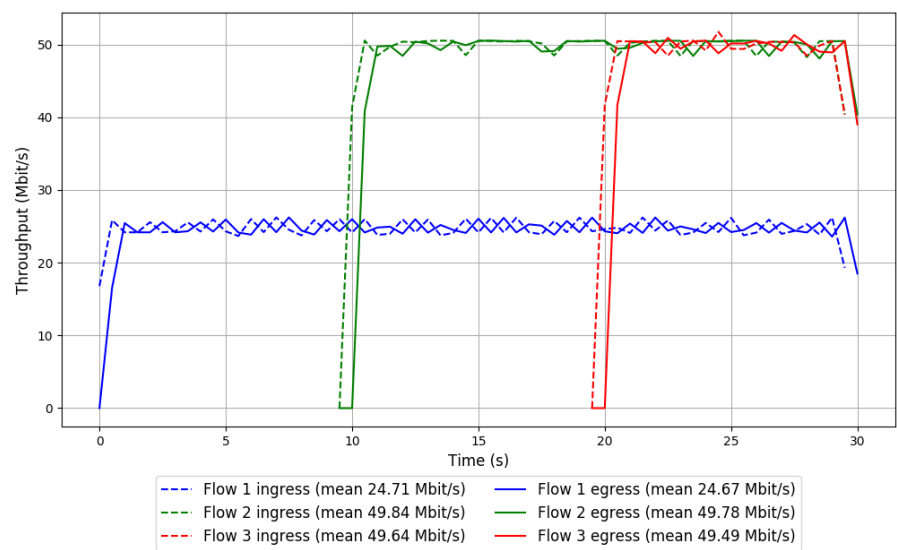
-- Flow 3:

Average throughput: 49.49 Mbit/s

95th percentile per-packet one-way delay: 4.915 ms

Loss rate: 0.25%

Run 1: Report of Sprout — Data Link

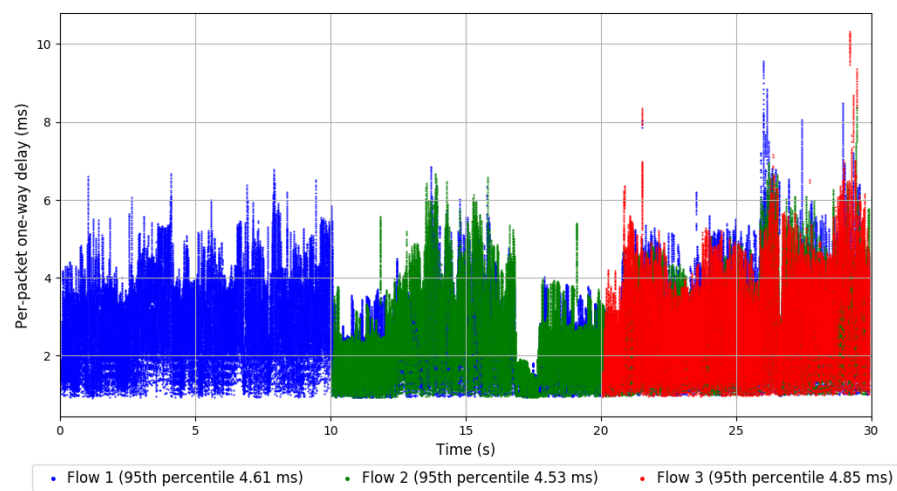
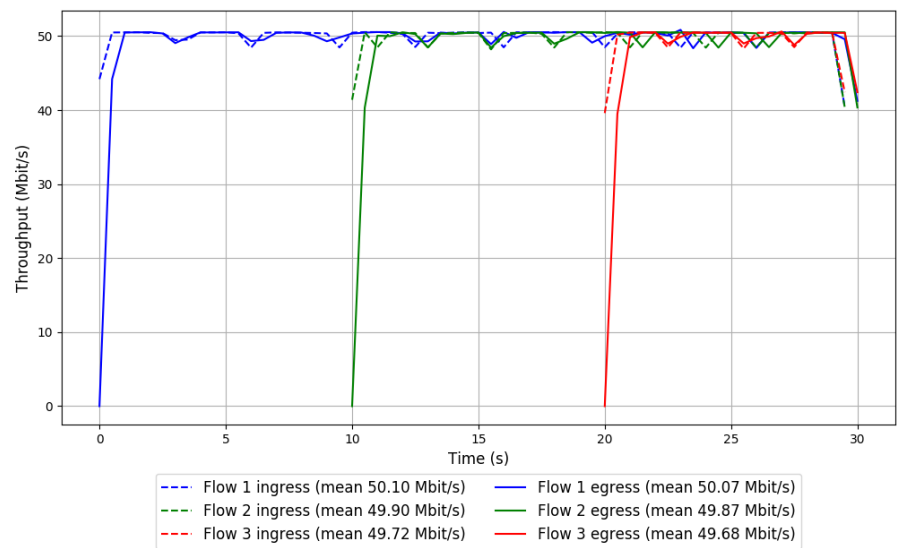


Run 2: Statistics of Sprout

Start at: 2019-10-02 23:25:53  
End at: 2019-10-02 23:26:23  
Local clock offset: 2.865 ms  
Remote clock offset: 0.733 ms

# Below is generated by plot.py at 2019-10-03 02:37:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 99.66 Mbit/s  
95th percentile per-packet one-way delay: 4.625 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 50.07 Mbit/s  
95th percentile per-packet one-way delay: 4.606 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 49.87 Mbit/s  
95th percentile per-packet one-way delay: 4.527 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 49.68 Mbit/s  
95th percentile per-packet one-way delay: 4.854 ms  
Loss rate: 0.06%

Run 2: Report of Sprout — Data Link

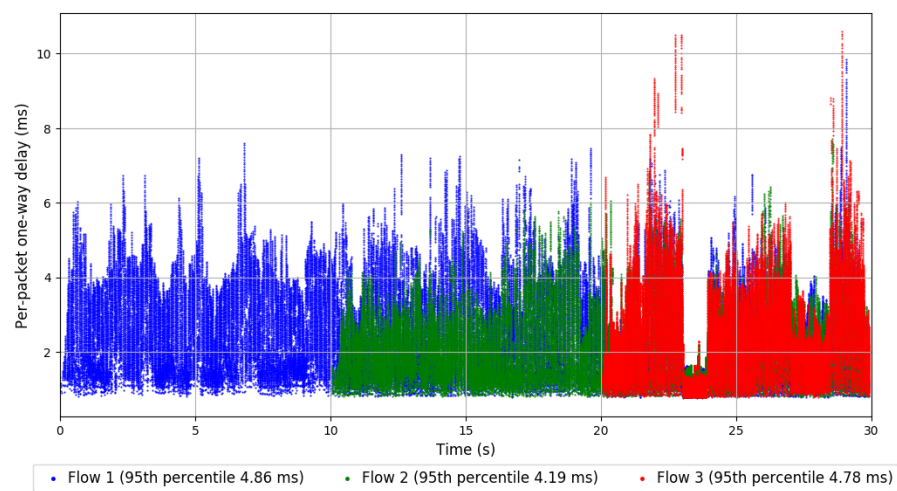
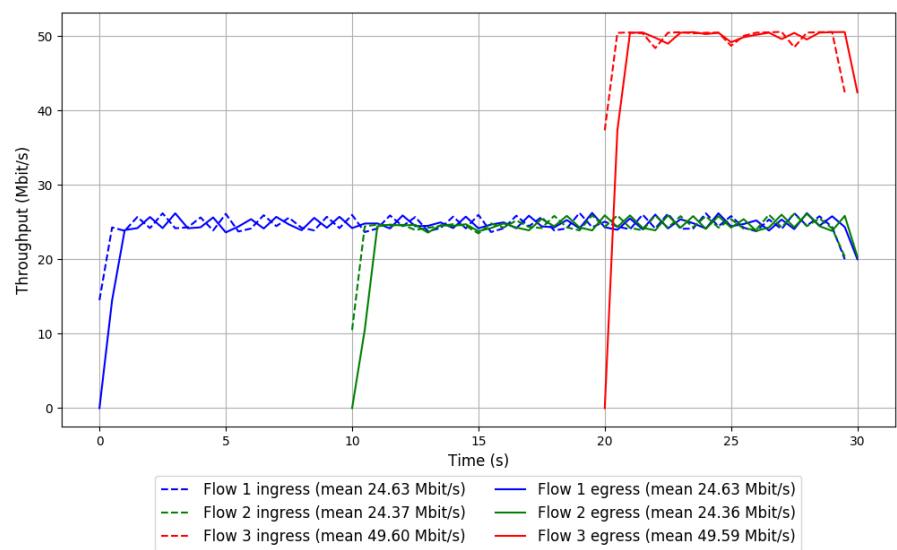


Run 3: Statistics of Sprout

Start at: 2019-10-03 00:00:46  
End at: 2019-10-03 00:01:16  
Local clock offset: 4.294 ms  
Remote clock offset: 0.266 ms

# Below is generated by plot.py at 2019-10-03 02:37:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.22 Mbit/s  
95th percentile per-packet one-way delay: 4.681 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 24.63 Mbit/s  
95th percentile per-packet one-way delay: 4.855 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 24.36 Mbit/s  
95th percentile per-packet one-way delay: 4.188 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 49.59 Mbit/s  
95th percentile per-packet one-way delay: 4.777 ms  
Loss rate: 0.01%

Run 3: Report of Sprout — Data Link

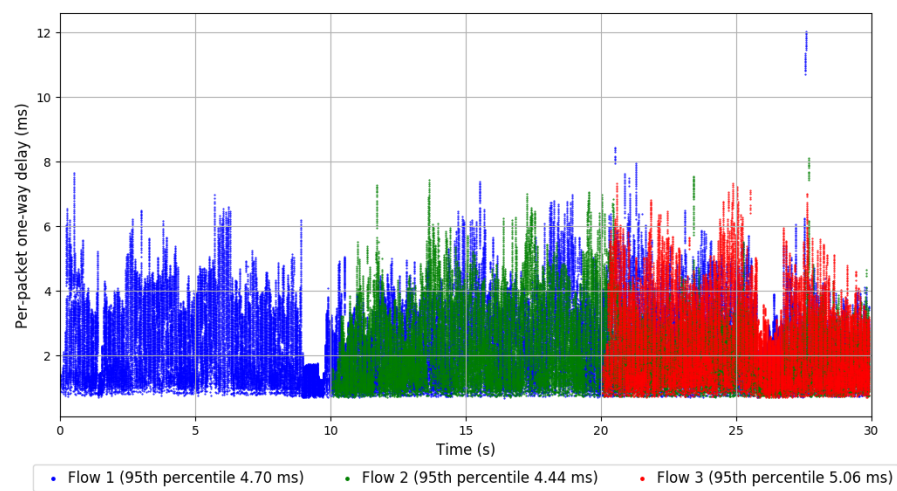
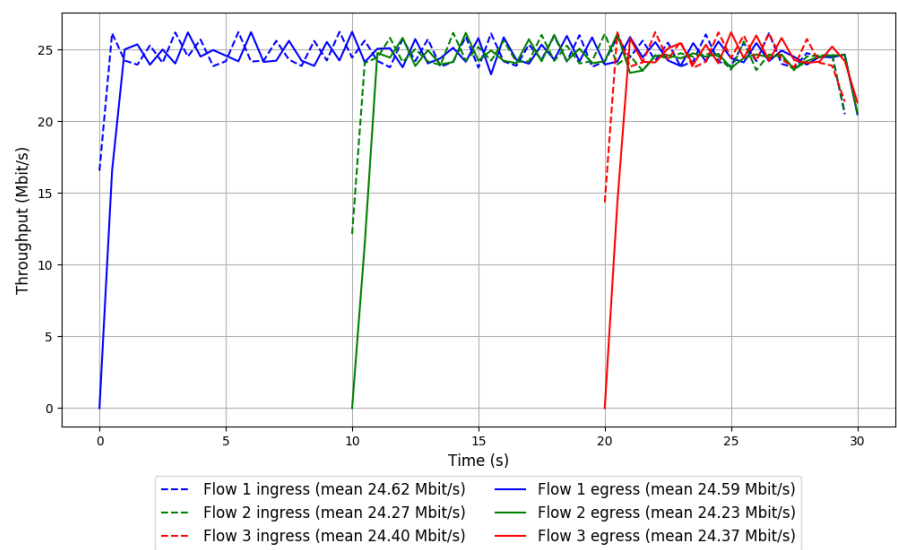


Run 4: Statistics of Sprout

Start at: 2019-10-03 00:36:00  
End at: 2019-10-03 00:36:30  
Local clock offset: 4.076 ms  
Remote clock offset: 0.161 ms

```
# Below is generated by plot.py at 2019-10-03 02:37:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.76 Mbit/s
95th percentile per-packet one-way delay: 4.699 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 4.699 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 24.23 Mbit/s
95th percentile per-packet one-way delay: 4.436 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 5.062 ms
Loss rate: 0.09%
```

Run 4: Report of Sprout — Data Link

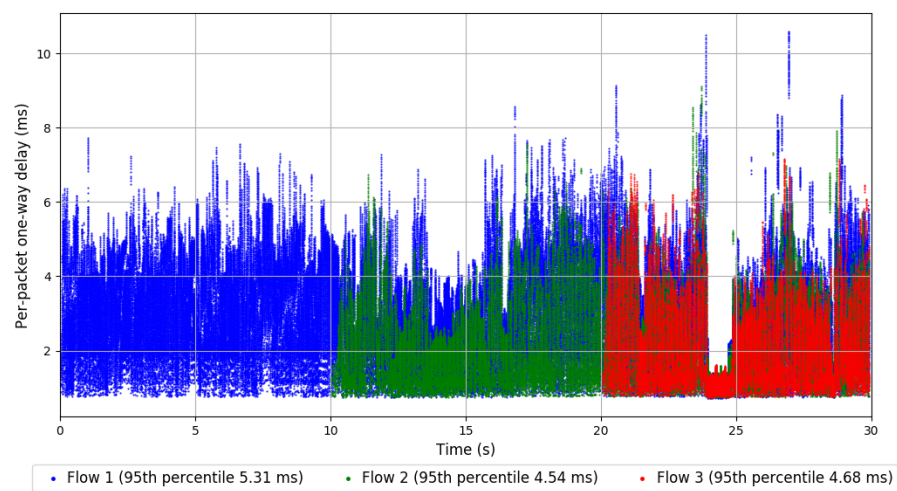
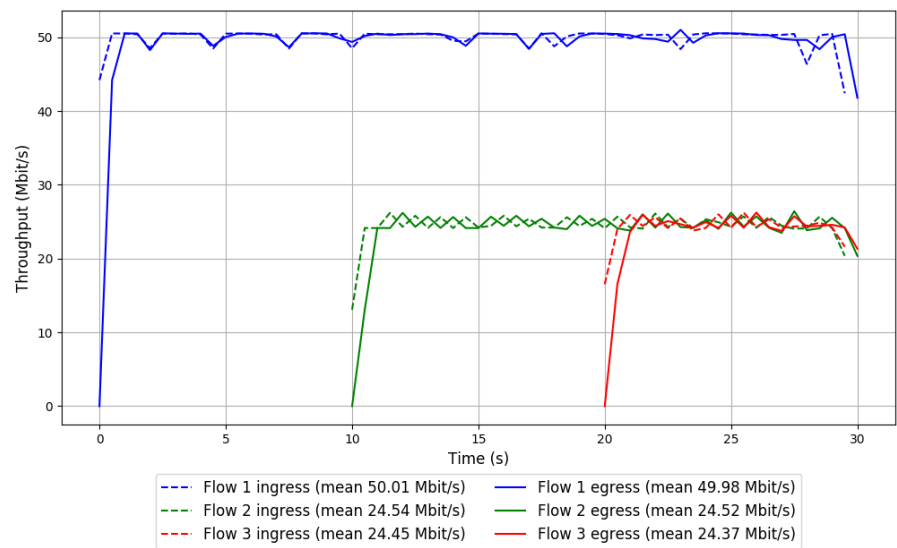


Run 5: Statistics of Sprout

Start at: 2019-10-03 01:11:15  
End at: 2019-10-03 01:11:45  
Local clock offset: 3.797 ms  
Remote clock offset: 0.214 ms

```
# Below is generated by plot.py at 2019-10-03 02:37:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.35 Mbit/s
95th percentile per-packet one-way delay: 5.154 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 49.98 Mbit/s
95th percentile per-packet one-way delay: 5.313 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 4.544 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 4.684 ms
Loss rate: 0.26%
```

Run 5: Report of Sprout — Data Link

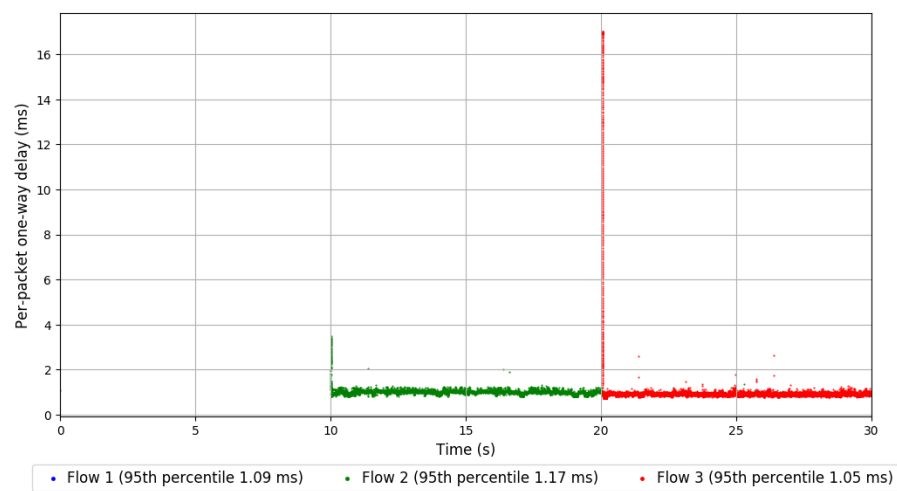
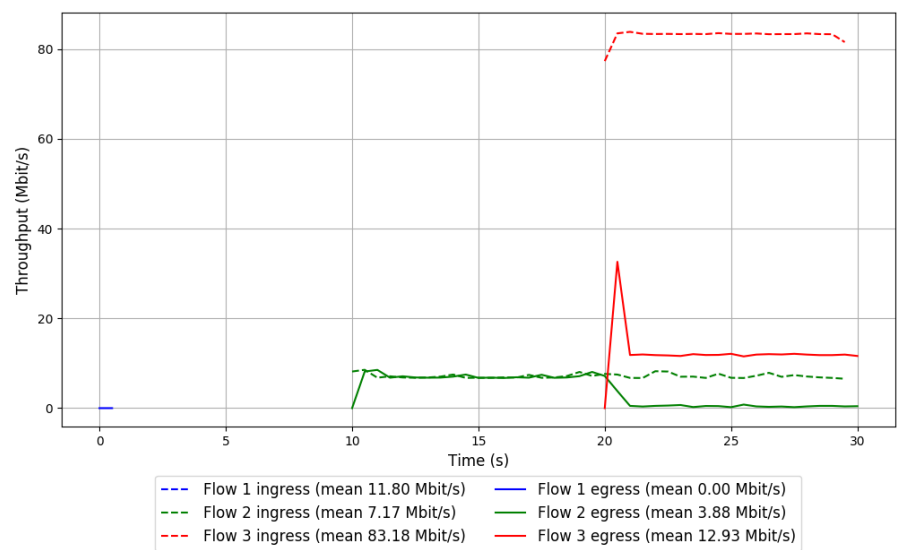


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-10-02 22:55:07
End at: 2019-10-02 22:55:37
Local clock offset: 2.809 ms
Remote clock offset: 0.464 ms

# Below is generated by plot.py at 2019-10-03 02:37:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 1.109 ms
Loss rate: 78.78%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.090 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 1.171 ms
Loss rate: 45.89%
-- Flow 3:
Average throughput: 12.93 Mbit/s
95th percentile per-packet one-way delay: 1.051 ms
Loss rate: 84.45%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-10-02 23:29:57

End at: 2019-10-02 23:30:27

Local clock offset: 3.339 ms

Remote clock offset: 0.53 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.21 Mbit/s

95th percentile per-packet one-way delay: 1.236 ms

Loss rate: 89.29%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.043 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 5.83 Mbit/s

95th percentile per-packet one-way delay: 1.292 ms

Loss rate: 92.07%

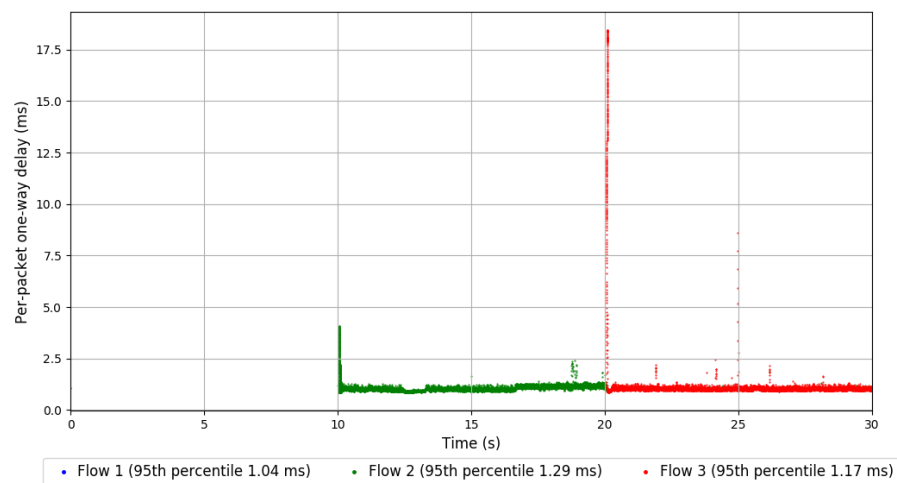
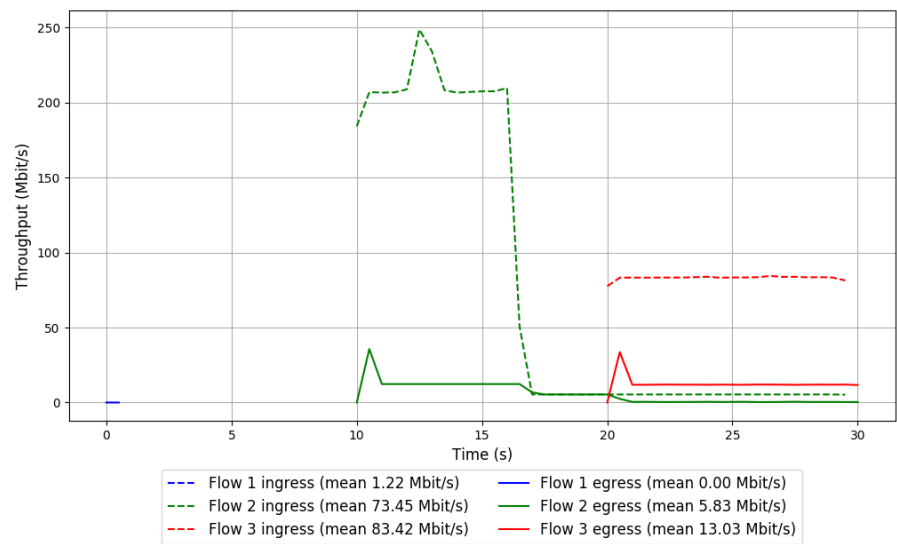
-- Flow 3:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 1.169 ms

Loss rate: 84.38%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-10-03 00:04:50

End at: 2019-10-03 00:05:20

Local clock offset: 4.23 ms

Remote clock offset: 0.138 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.13 Mbit/s

95th percentile per-packet one-way delay: 1.083 ms

Loss rate: 78.25%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.195 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 1.097 ms

Loss rate: 14.57%

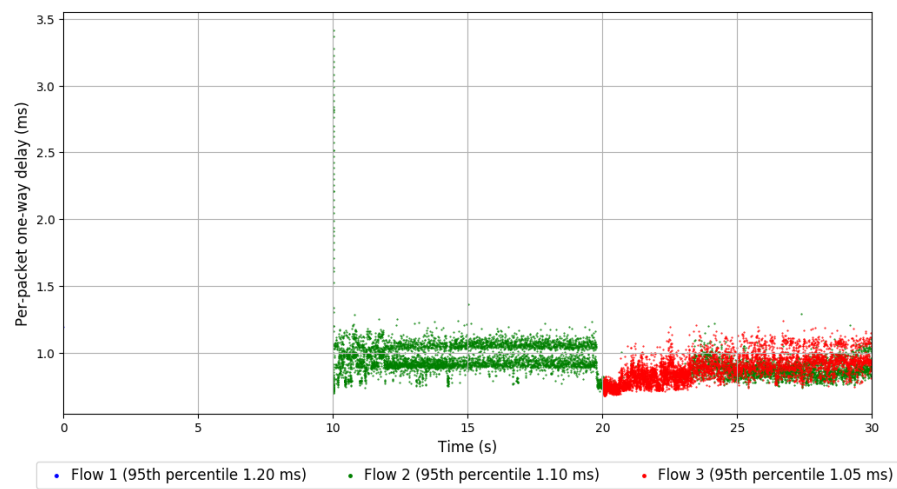
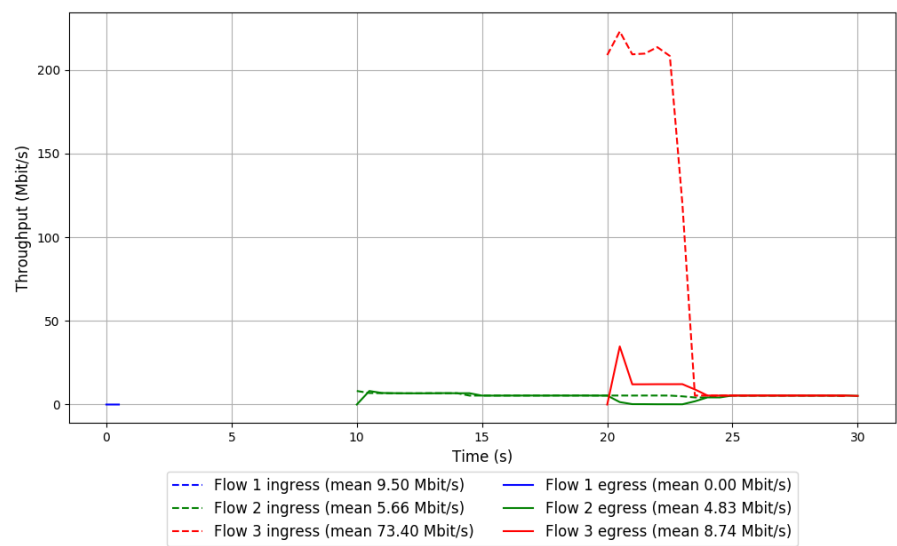
-- Flow 3:

Average throughput: 8.74 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 88.09%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-10-03 00:40:03

End at: 2019-10-03 00:40:33

Local clock offset: 4.064 ms

Remote clock offset: 0.211 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.60 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 87.13%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 8.86 Mbit/s

95th percentile per-packet one-way delay: 1.066 ms

Loss rate: 88.26%

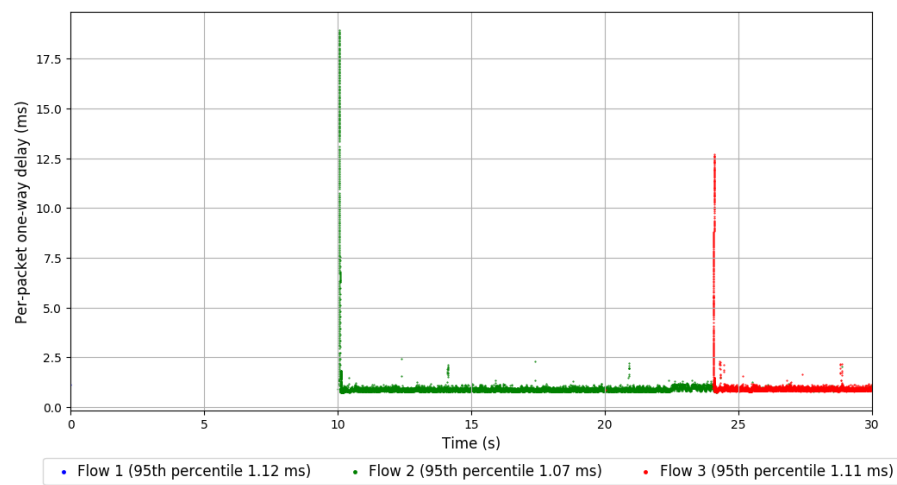
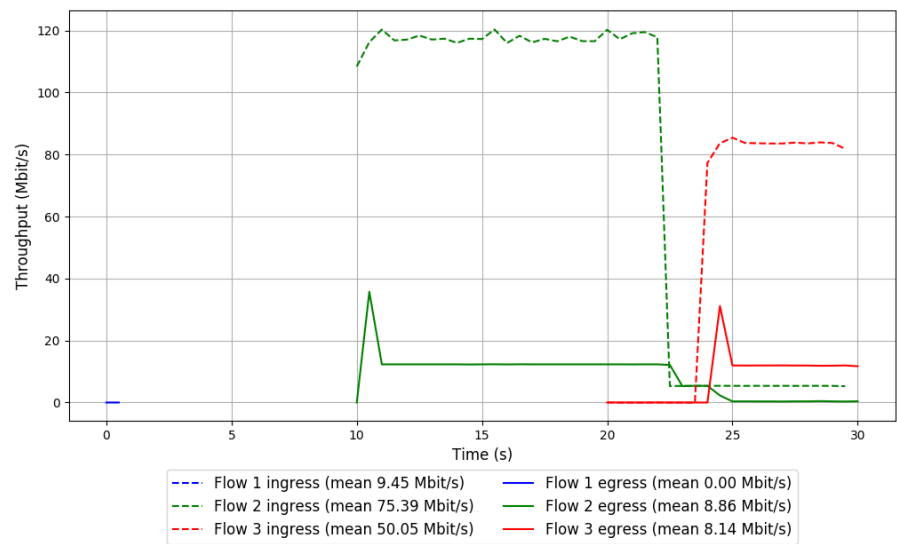
-- Flow 3:

Average throughput: 8.14 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 83.74%

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



Run 5: Statistics of TaoVA-100x

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

End at: 2019-10-03 01:15:45

Local clock offset: 3.684 ms

Remote clock offset: 0.148 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 83.67%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.004 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 11.87 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 84.57%

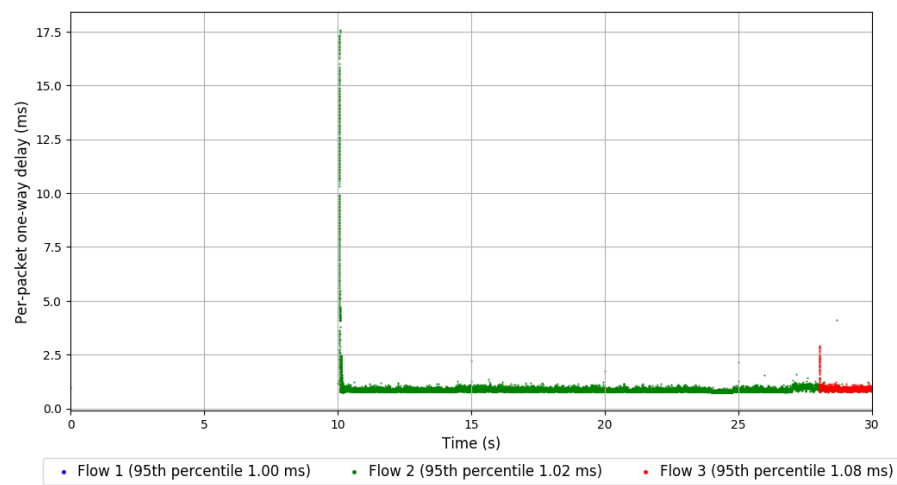
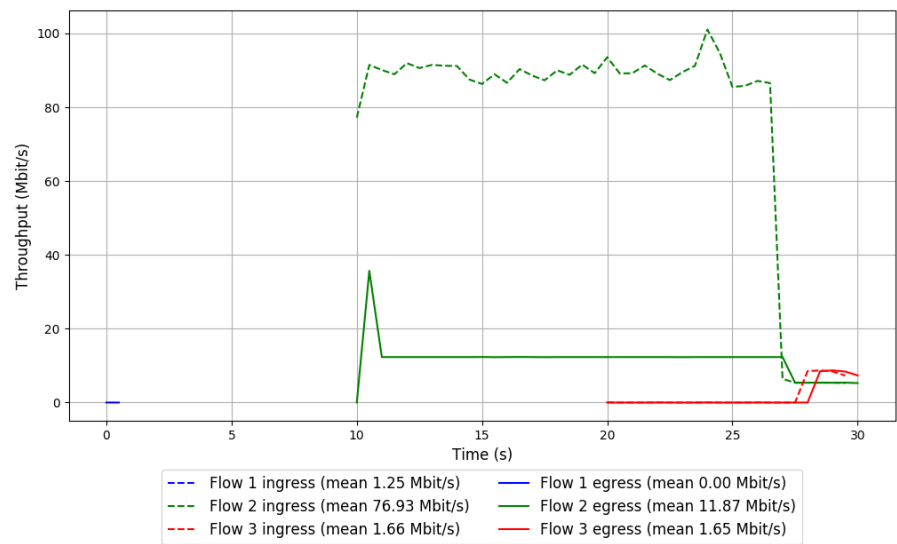
-- Flow 3:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 1.077 ms

Loss rate: 0.58%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-10-02 22:49:50

End at: 2019-10-02 22:50:20

Local clock offset: 2.792 ms

Remote clock offset: 0.222 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 162.34 Mbit/s

95th percentile per-packet one-way delay: 1.303 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 89.21 Mbit/s

95th percentile per-packet one-way delay: 1.308 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 82.02 Mbit/s

95th percentile per-packet one-way delay: 1.289 ms

Loss rate: 0.02%

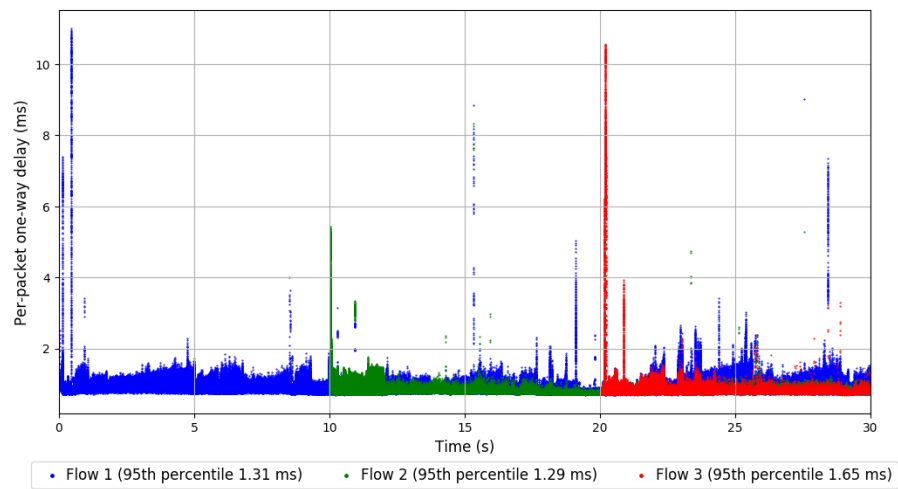
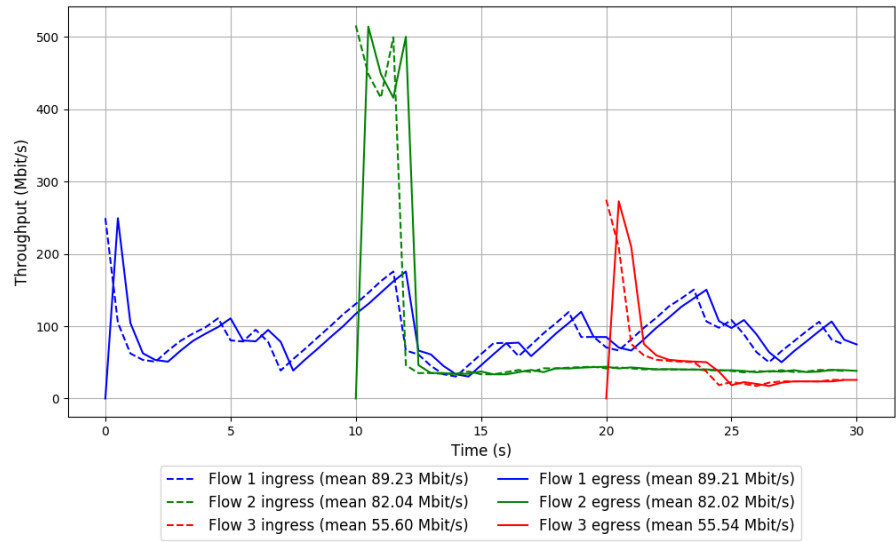
-- Flow 3:

Average throughput: 55.54 Mbit/s

95th percentile per-packet one-way delay: 1.645 ms

Loss rate: 0.11%

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-10-02 23:24:27

End at: 2019-10-02 23:24:57

Local clock offset: 2.728 ms

Remote clock offset: 0.716 ms

# Below is generated by plot.py at 2019-10-03 02:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 300.88 Mbit/s

95th percentile per-packet one-way delay: 1.212 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 185.38 Mbit/s

95th percentile per-packet one-way delay: 1.222 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 98.34 Mbit/s

95th percentile per-packet one-way delay: 1.169 ms

Loss rate: 0.02%

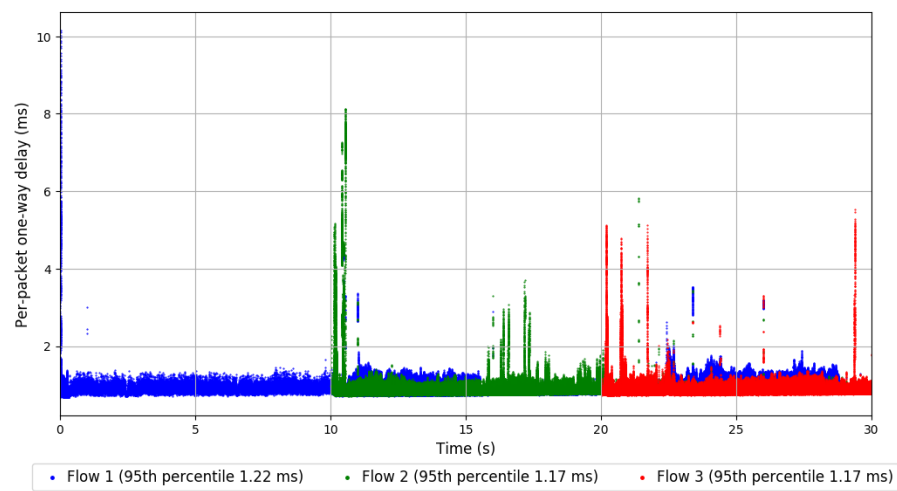
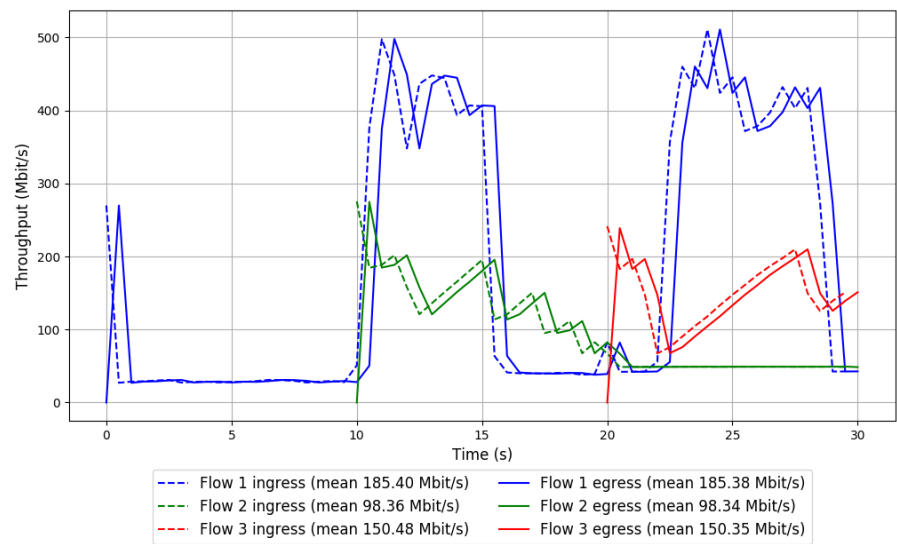
-- Flow 3:

Average throughput: 150.35 Mbit/s

95th percentile per-packet one-way delay: 1.168 ms

Loss rate: 0.08%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-10-02 23:59:20

End at: 2019-10-02 23:59:50

Local clock offset: 4.31 ms

Remote clock offset: 0.277 ms

# Below is generated by plot.py at 2019-10-03 02:37:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 326.00 Mbit/s

95th percentile per-packet one-way delay: 1.308 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 68.40 Mbit/s

95th percentile per-packet one-way delay: 1.210 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 280.20 Mbit/s

95th percentile per-packet one-way delay: 1.325 ms

Loss rate: 0.01%

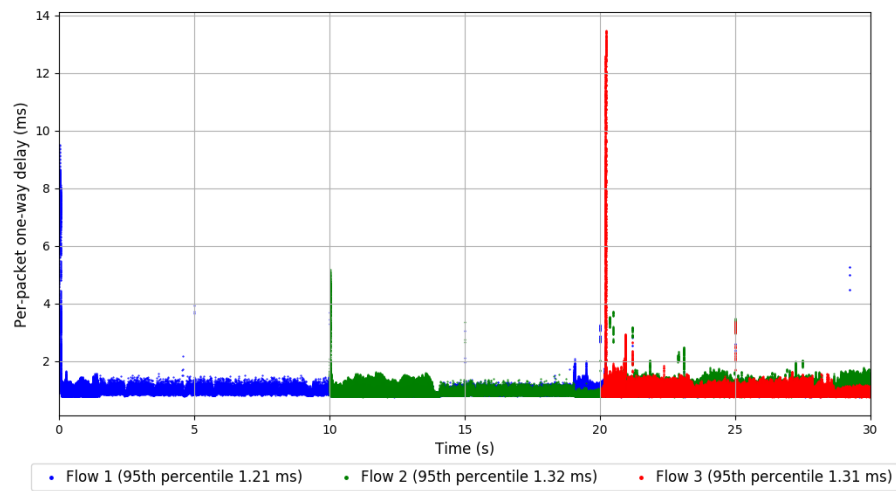
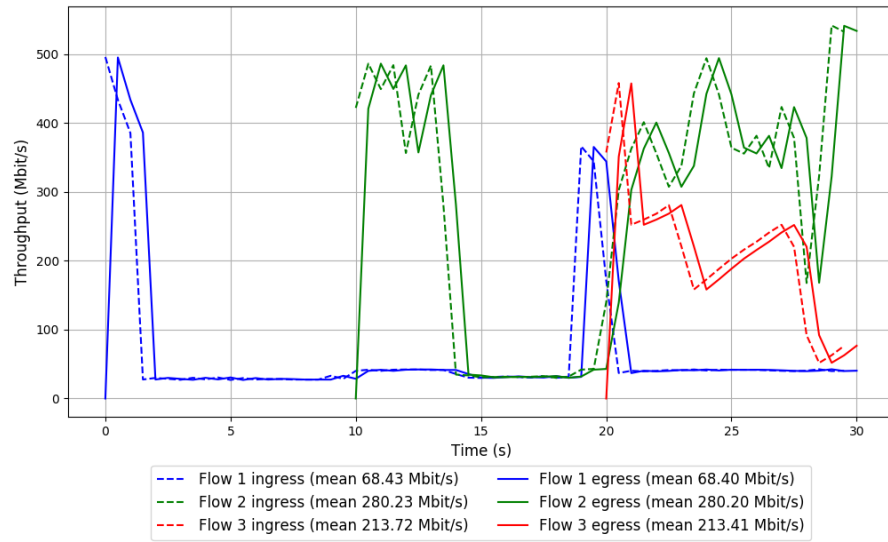
-- Flow 3:

Average throughput: 213.41 Mbit/s

95th percentile per-packet one-way delay: 1.315 ms

Loss rate: 0.14%

### Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-10-03 00:34:39

End at: 2019-10-03 00:35:09

Local clock offset: 4.08 ms

Remote clock offset: 0.233 ms

# Below is generated by plot.py at 2019-10-03 02:37:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 193.95 Mbit/s

95th percentile per-packet one-way delay: 1.430 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 108.01 Mbit/s

95th percentile per-packet one-way delay: 1.527 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 69.60 Mbit/s

95th percentile per-packet one-way delay: 1.239 ms

Loss rate: 0.06%

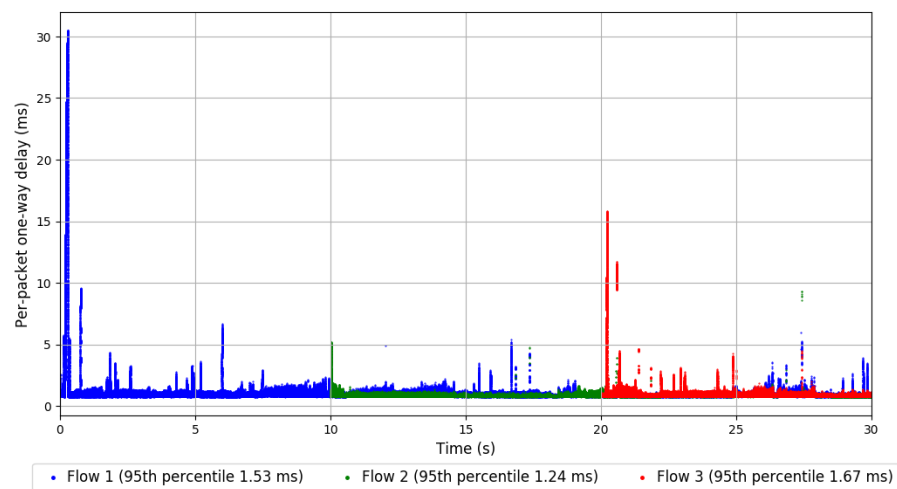
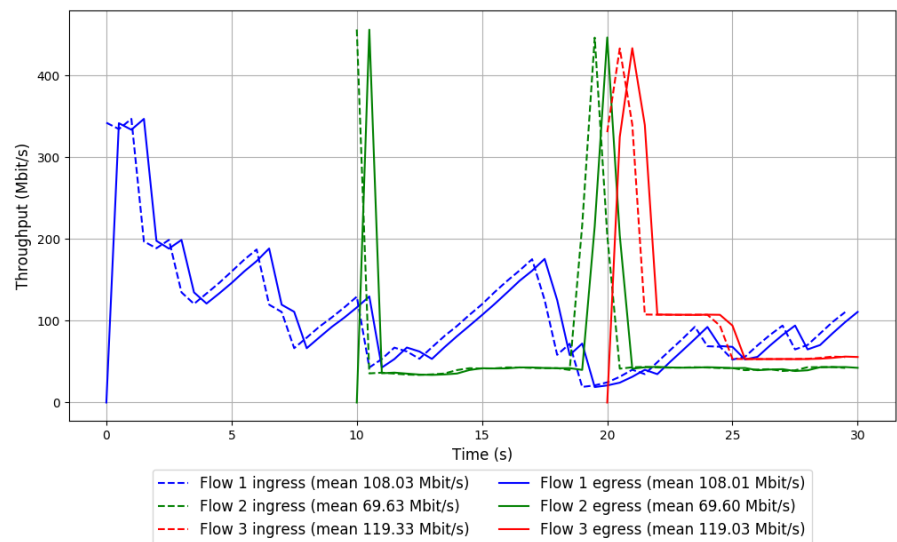
-- Flow 3:

Average throughput: 119.03 Mbit/s

95th percentile per-packet one-way delay: 1.665 ms

Loss rate: 0.25%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-10-03 01:09:55

End at: 2019-10-03 01:10:25

Local clock offset: 3.817 ms

Remote clock offset: 0.195 ms

# Below is generated by plot.py at 2019-10-03 02:37:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 145.97 Mbit/s

95th percentile per-packet one-way delay: 1.235 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 52.69 Mbit/s

95th percentile per-packet one-way delay: 1.234 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 106.55 Mbit/s

95th percentile per-packet one-way delay: 1.207 ms

Loss rate: 0.01%

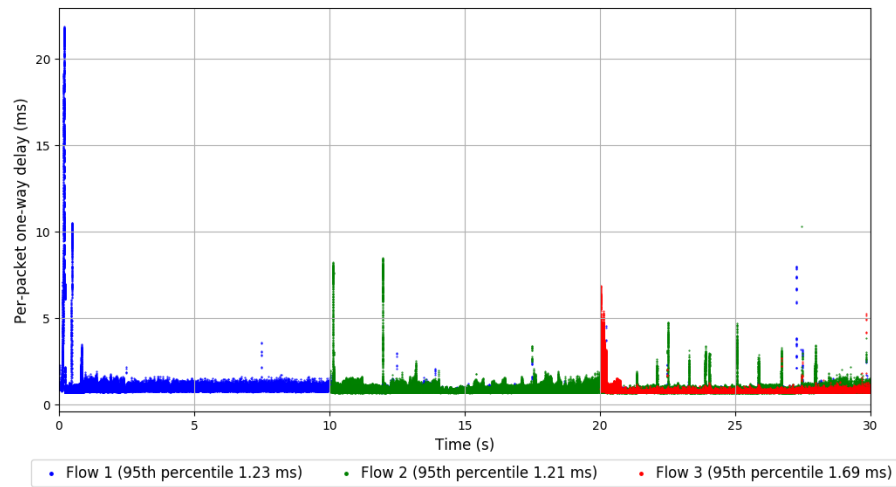
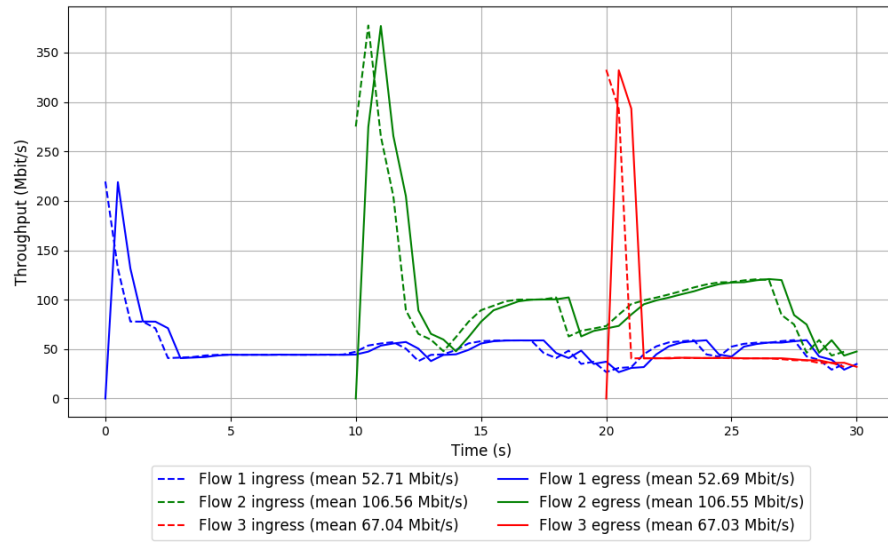
-- Flow 3:

Average throughput: 67.03 Mbit/s

95th percentile per-packet one-way delay: 1.689 ms

Loss rate: 0.01%

# Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-10-02 23:01:03

End at: 2019-10-02 23:01:33

Local clock offset: 2.815 ms

Remote clock offset: 0.666 ms

# Below is generated by plot.py at 2019-10-03 02:38:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 358.11 Mbit/s

95th percentile per-packet one-way delay: 23.439 ms

Loss rate: 14.49%

-- Flow 1:

Average throughput: 213.06 Mbit/s

95th percentile per-packet one-way delay: 28.082 ms

Loss rate: 12.66%

-- Flow 2:

Average throughput: 102.70 Mbit/s

95th percentile per-packet one-way delay: 48.569 ms

Loss rate: 10.85%

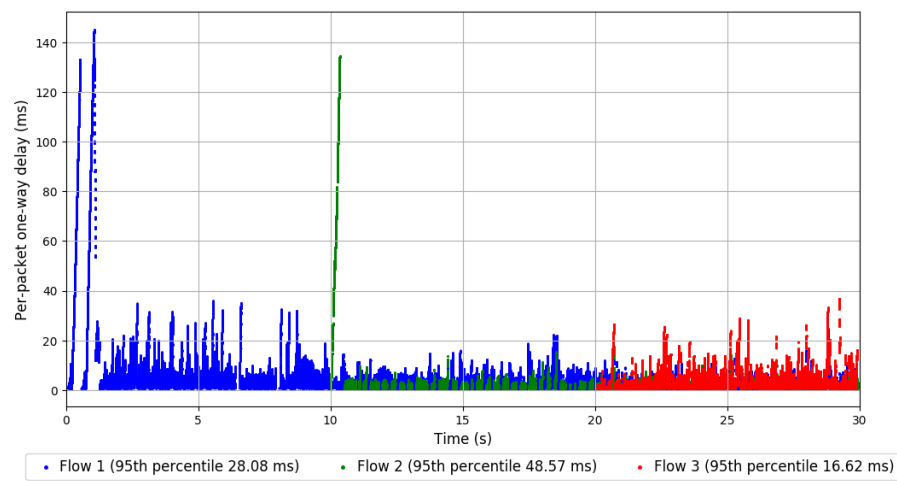
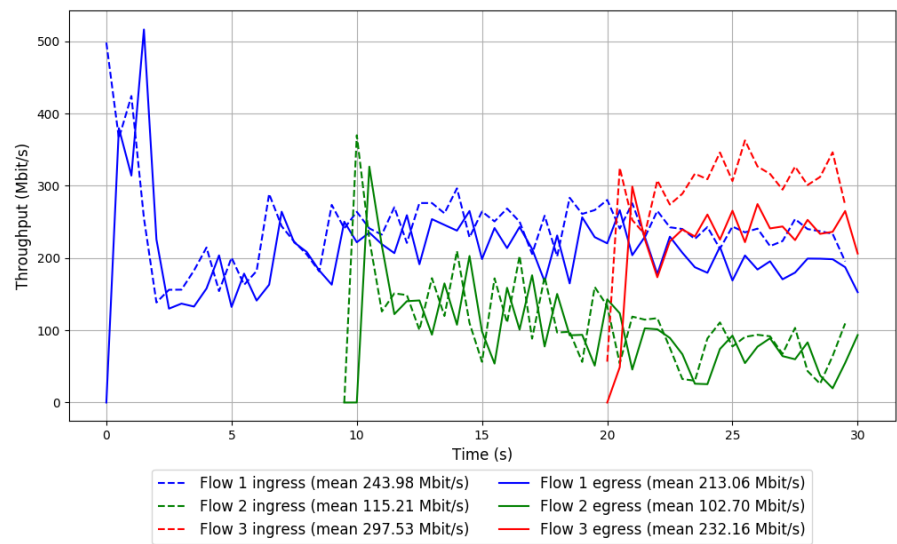
-- Flow 3:

Average throughput: 232.16 Mbit/s

95th percentile per-packet one-way delay: 16.625 ms

Loss rate: 21.86%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-10-02 23:35:42

End at: 2019-10-02 23:36:12

Local clock offset: 3.755 ms

Remote clock offset: 0.397 ms

# Below is generated by plot.py at 2019-10-03 02:38:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 331.84 Mbit/s

95th percentile per-packet one-way delay: 31.321 ms

Loss rate: 15.61%

-- Flow 1:

Average throughput: 196.97 Mbit/s

95th percentile per-packet one-way delay: 28.942 ms

Loss rate: 17.68%

-- Flow 2:

Average throughput: 112.57 Mbit/s

95th percentile per-packet one-way delay: 36.160 ms

Loss rate: 9.46%

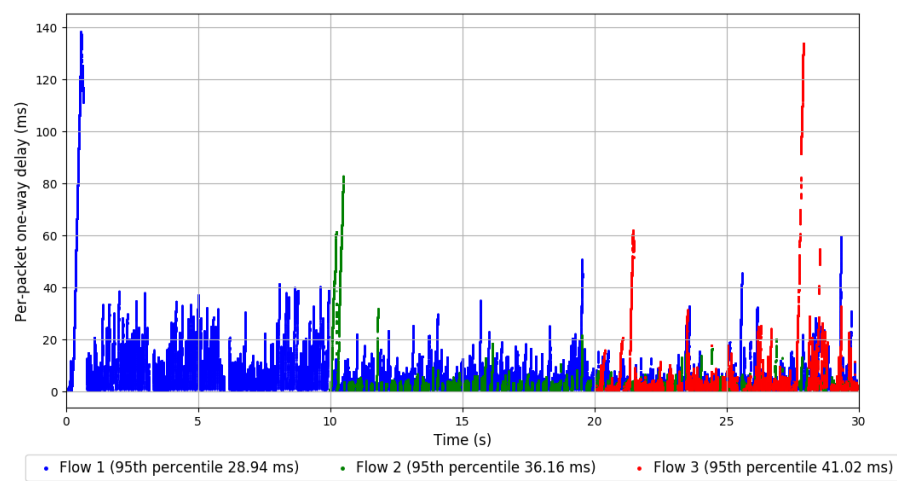
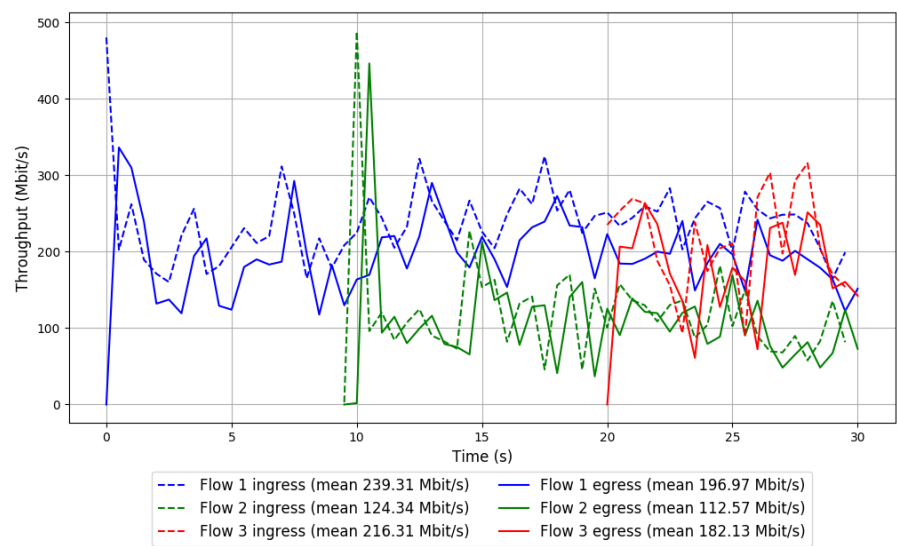
-- Flow 3:

Average throughput: 182.13 Mbit/s

95th percentile per-packet one-way delay: 41.021 ms

Loss rate: 15.79%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-10-03 00:10:52

End at: 2019-10-03 00:11:22

Local clock offset: 4.186 ms

Remote clock offset: 0.211 ms

# Below is generated by plot.py at 2019-10-03 02:39:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 339.69 Mbit/s

95th percentile per-packet one-way delay: 19.930 ms

Loss rate: 16.79%

-- Flow 1:

Average throughput: 112.62 Mbit/s

95th percentile per-packet one-way delay: 32.317 ms

Loss rate: 6.16%

-- Flow 2:

Average throughput: 249.54 Mbit/s

95th percentile per-packet one-way delay: 20.406 ms

Loss rate: 20.06%

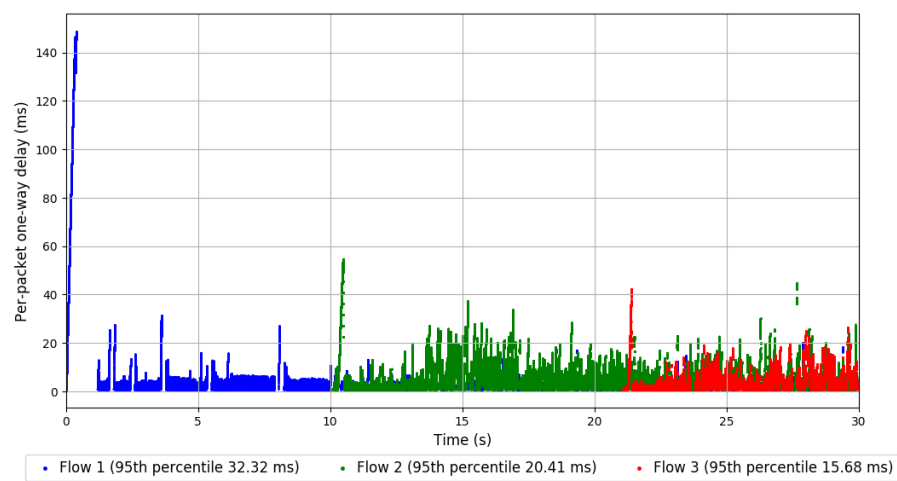
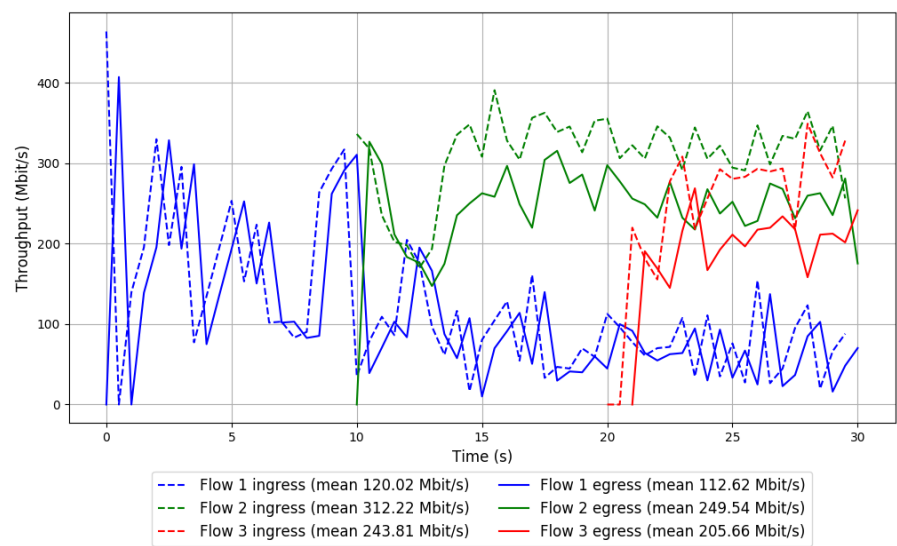
-- Flow 3:

Average throughput: 205.66 Mbit/s

95th percentile per-packet one-way delay: 15.677 ms

Loss rate: 24.13%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-10-03 00:46:09

End at: 2019-10-03 00:46:39

Local clock offset: 4.028 ms

Remote clock offset: 0.205 ms

# Below is generated by plot.py at 2019-10-03 02:39:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 337.94 Mbit/s

95th percentile per-packet one-way delay: 24.290 ms

Loss rate: 15.62%

-- Flow 1:

Average throughput: 205.98 Mbit/s

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

Loss rate: 19.45%

-- Flow 2:

Average throughput: 105.03 Mbit/s

95th percentile per-packet one-way delay: 9.033 ms

Loss rate: 8.56%

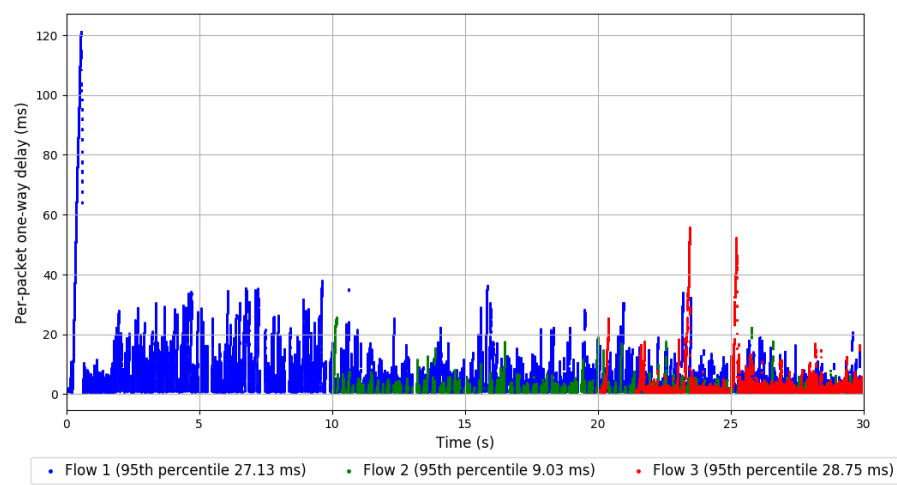
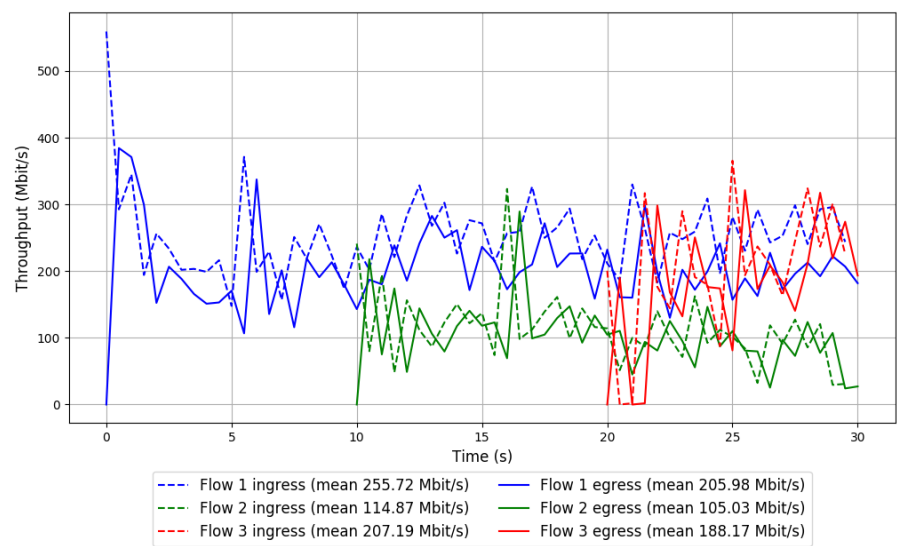
-- Flow 3:

Average throughput: 188.17 Mbit/s

95th percentile per-packet one-way delay: 28.755 ms

Loss rate: 9.18%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-10-03 01:21:15

End at: 2019-10-03 01:21:45

Local clock offset: 3.593 ms

Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2019-10-03 02:39:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 312.61 Mbit/s

95th percentile per-packet one-way delay: 36.192 ms

Loss rate: 13.70%

-- Flow 1:

Average throughput: 206.01 Mbit/s

95th percentile per-packet one-way delay: 46.417 ms

Loss rate: 16.57%

-- Flow 2:

Average throughput: 98.50 Mbit/s

95th percentile per-packet one-way delay: 8.726 ms

Loss rate: 6.94%

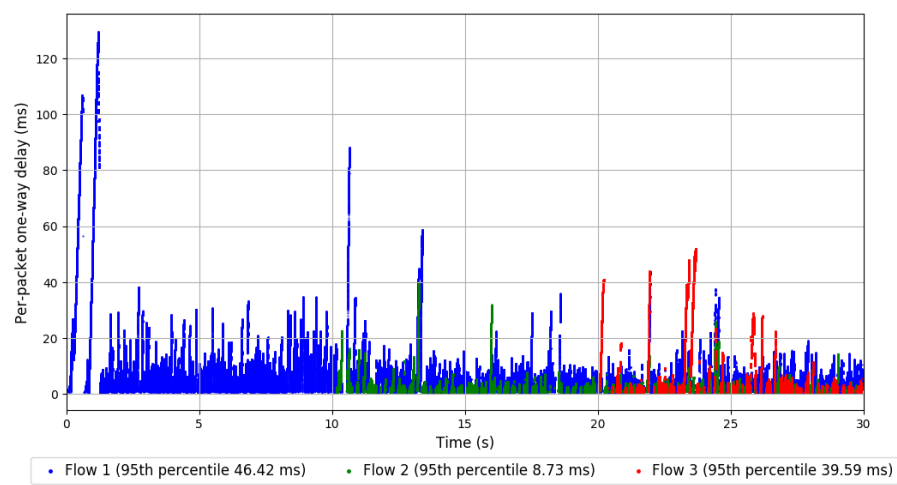
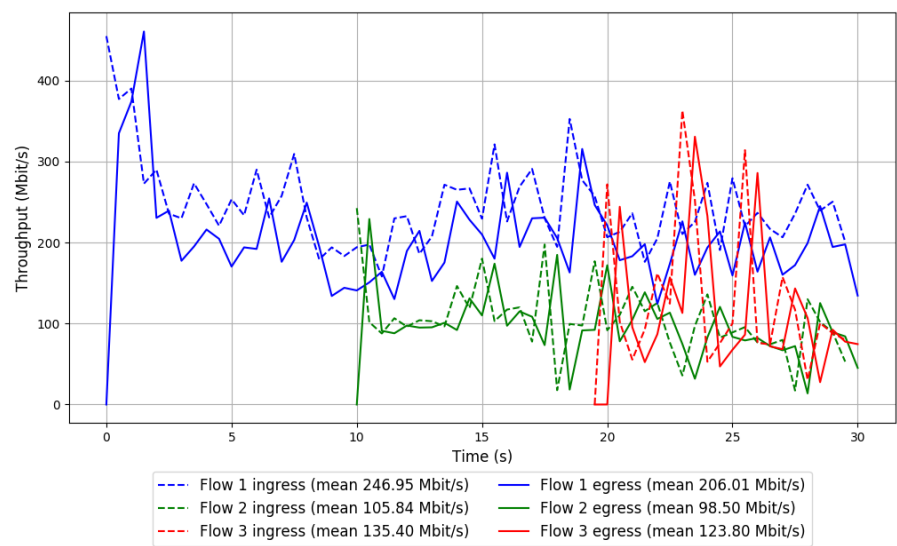
-- Flow 3:

Average throughput: 123.80 Mbit/s

95th percentile per-packet one-way delay: 39.585 ms

Loss rate: 8.52%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-10-02 22:57:44

End at: 2019-10-02 22:58:14

Local clock offset: 2.824 ms

Remote clock offset: 0.562 ms

# Below is generated by plot.py at 2019-10-03 02:41:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 443.78 Mbit/s

95th percentile per-packet one-way delay: 36.684 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 242.99 Mbit/s

95th percentile per-packet one-way delay: 13.777 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 221.43 Mbit/s

95th percentile per-packet one-way delay: 71.377 ms

Loss rate: 0.23%

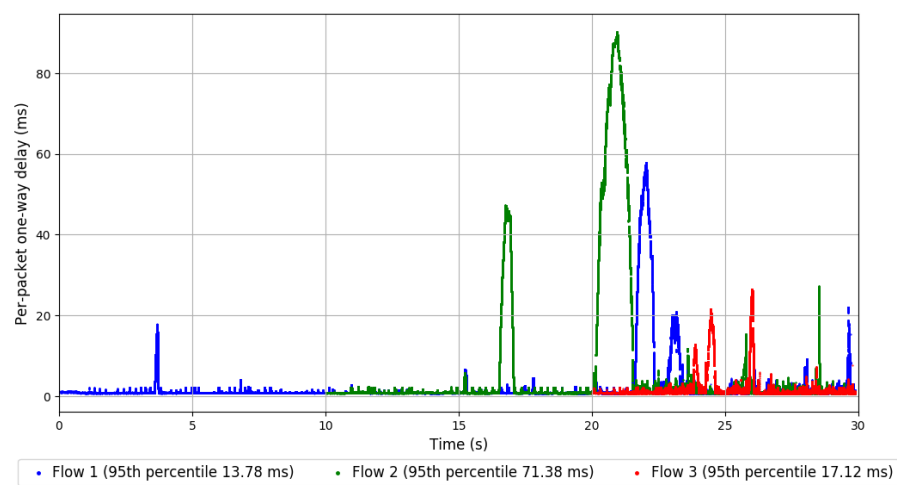
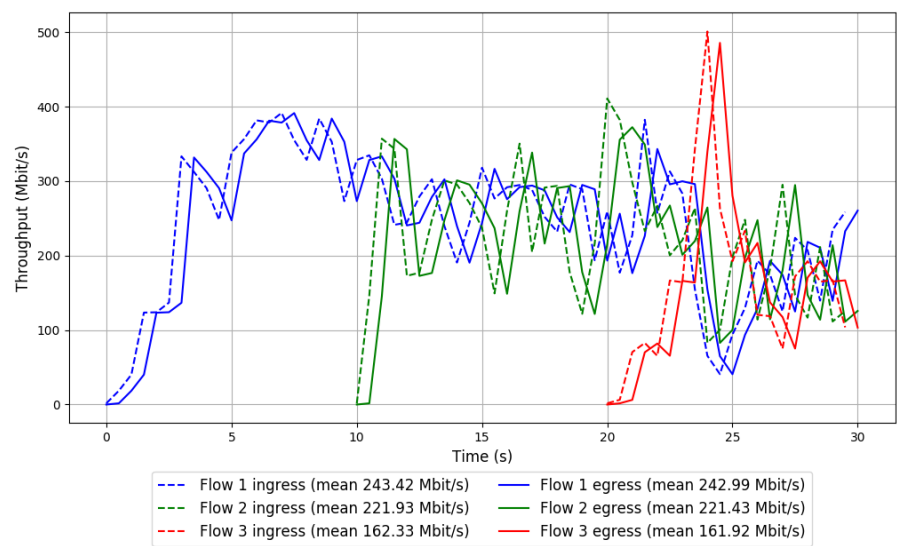
-- Flow 3:

Average throughput: 161.92 Mbit/s

95th percentile per-packet one-way delay: 17.121 ms

Loss rate: 0.25%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-10-02 23:32:34

End at: 2019-10-02 23:33:04

Local clock offset: 3.581 ms

Remote clock offset: 0.438 ms

# Below is generated by plot.py at 2019-10-03 02:41:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 472.94 Mbit/s

95th percentile per-packet one-way delay: 12.547 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 237.84 Mbit/s

95th percentile per-packet one-way delay: 1.812 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 259.76 Mbit/s

95th percentile per-packet one-way delay: 39.824 ms

Loss rate: 0.02%

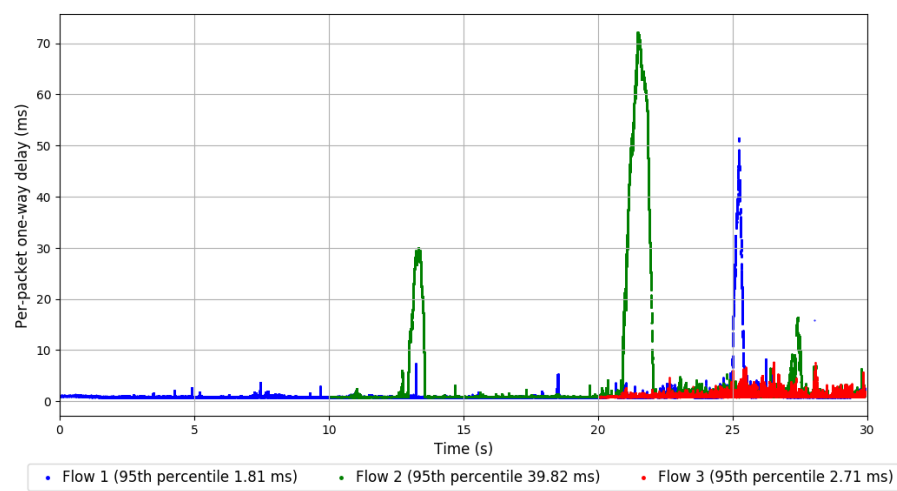
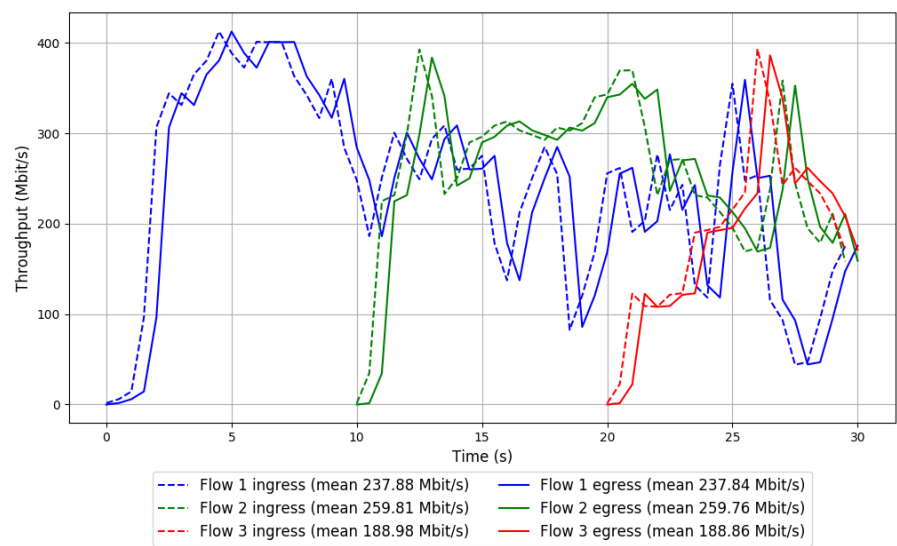
-- Flow 3:

Average throughput: 188.86 Mbit/s

95th percentile per-packet one-way delay: 2.712 ms

Loss rate: 0.06%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-10-03 00:07:40

End at: 2019-10-03 00:08:10

Local clock offset: 4.161 ms

Remote clock offset: 0.13 ms

# Below is generated by plot.py at 2019-10-03 02:42:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 474.54 Mbit/s

95th percentile per-packet one-way delay: 5.412 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 333.07 Mbit/s

95th percentile per-packet one-way delay: 26.283 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 139.81 Mbit/s

95th percentile per-packet one-way delay: 1.533 ms

Loss rate: 0.15%

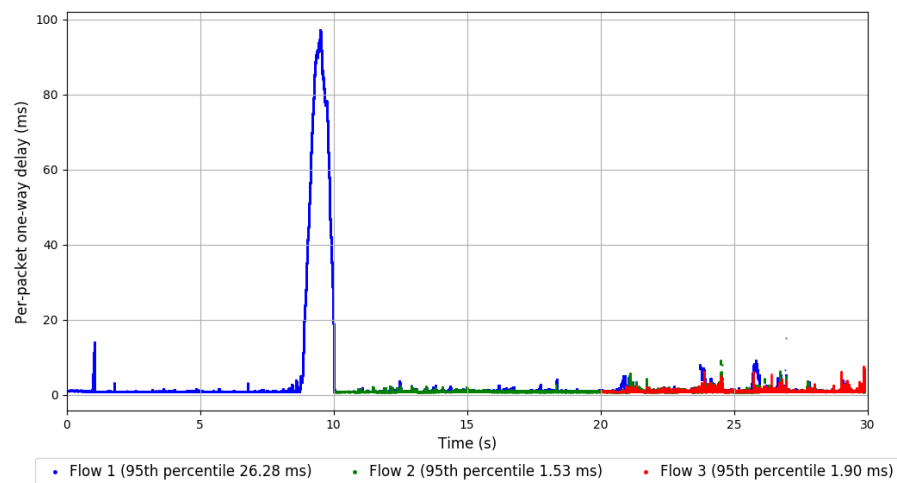
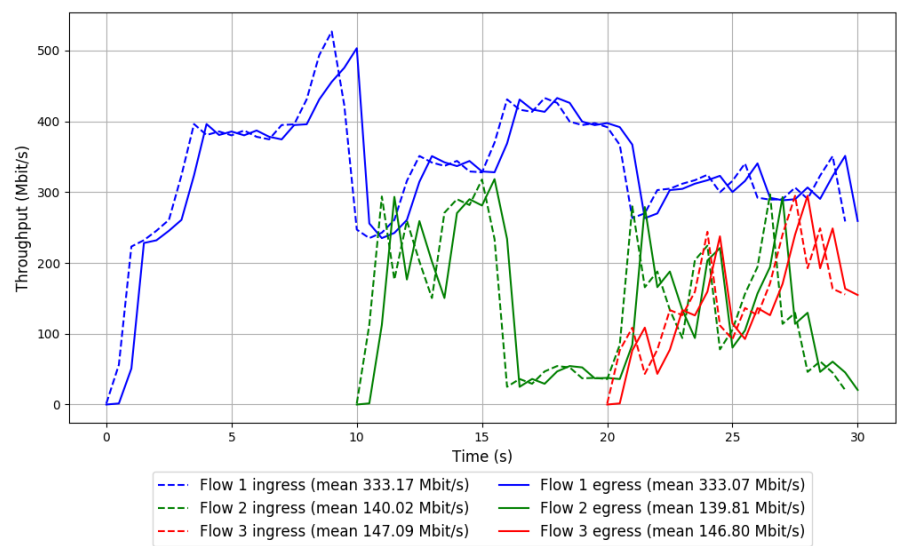
-- Flow 3:

Average throughput: 146.80 Mbit/s

95th percentile per-packet one-way delay: 1.898 ms

Loss rate: 0.19%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-10-03 00:42:59

End at: 2019-10-03 00:43:29

Local clock offset: 4.088 ms

Remote clock offset: 0.243 ms

# Below is generated by plot.py at 2019-10-03 02:42:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 508.93 Mbit/s

95th percentile per-packet one-way delay: 21.059 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 218.56 Mbit/s

95th percentile per-packet one-way delay: 7.927 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 337.67 Mbit/s

95th percentile per-packet one-way delay: 16.939 ms

Loss rate: 0.11%

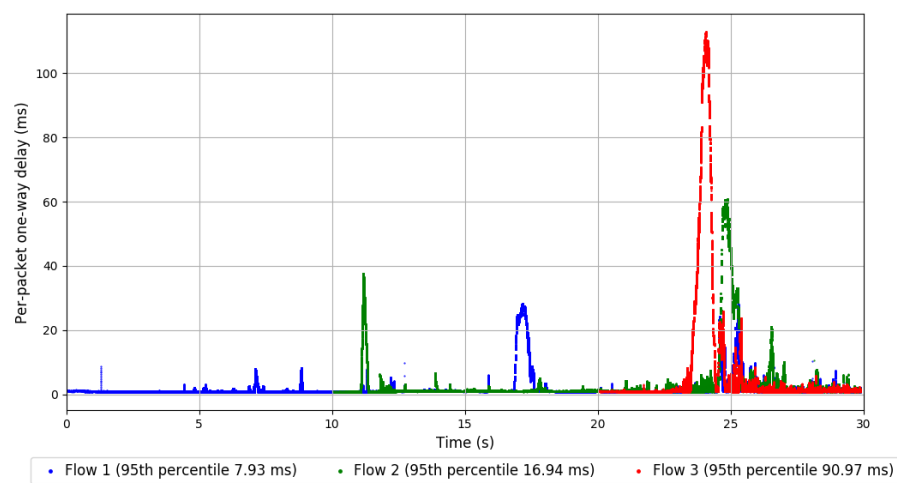
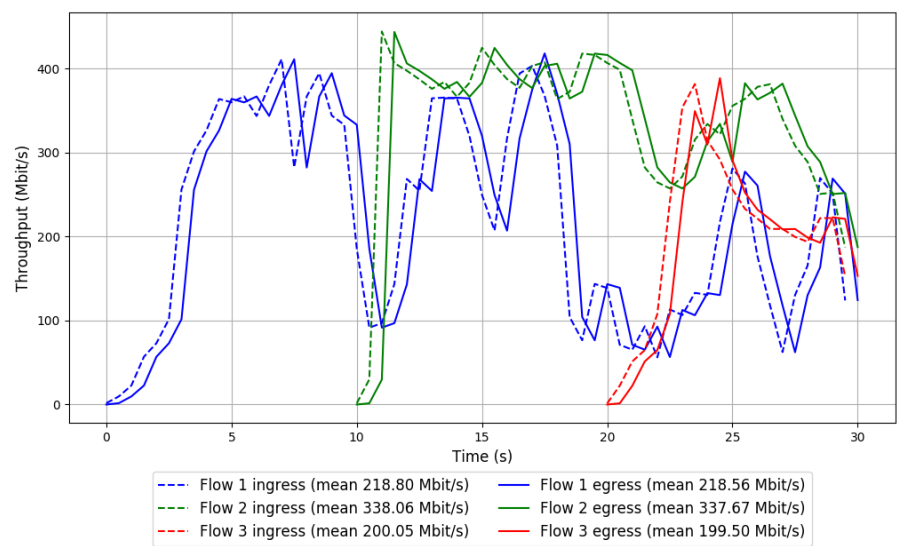
-- Flow 3:

Average throughput: 199.50 Mbit/s

95th percentile per-packet one-way delay: 90.968 ms

Loss rate: 0.27%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-10-03 01:17:59

End at: 2019-10-03 01:18:29

Local clock offset: 3.666 ms

Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2019-10-03 02:42:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 510.26 Mbit/s

95th percentile per-packet one-way delay: 9.238 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 304.36 Mbit/s

95th percentile per-packet one-way delay: 8.099 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 238.16 Mbit/s

95th percentile per-packet one-way delay: 14.802 ms

Loss rate: 0.50%

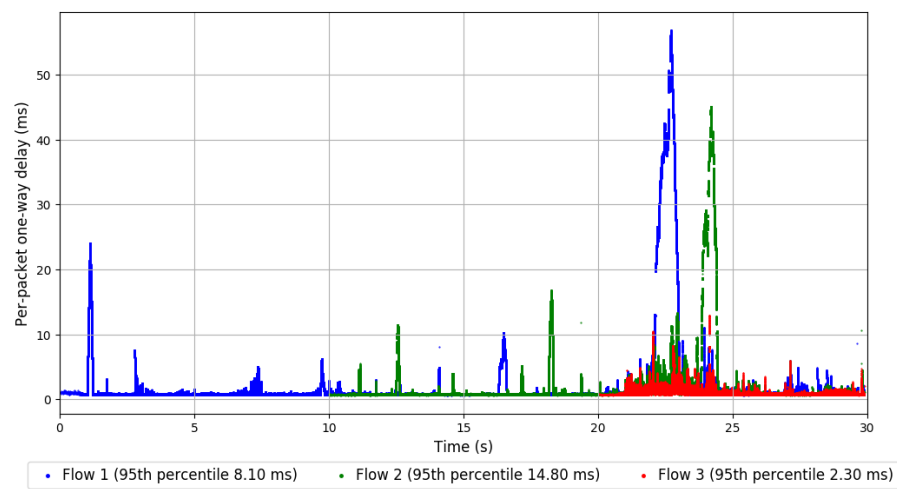
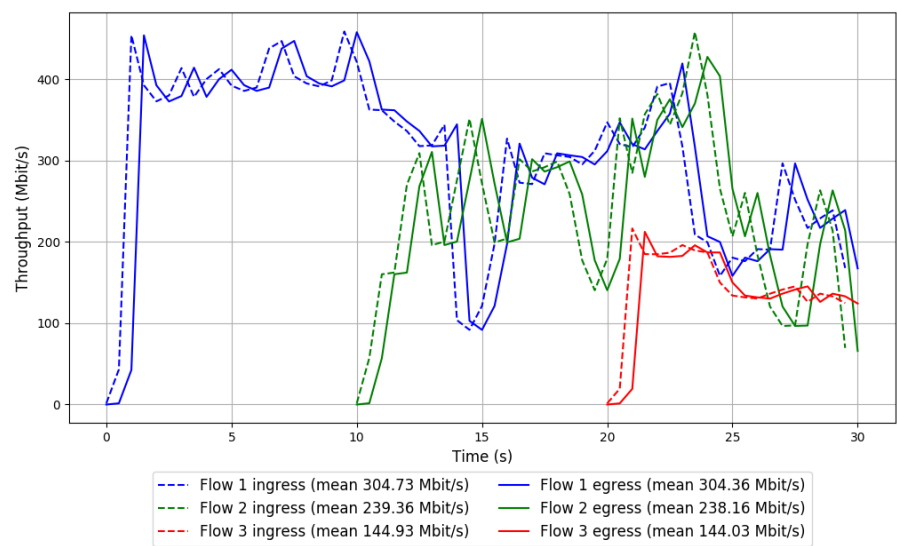
-- Flow 3:

Average throughput: 144.03 Mbit/s

95th percentile per-packet one-way delay: 2.302 ms

Loss rate: 0.61%

Run 5: Report of PCC-Vivace — Data Link

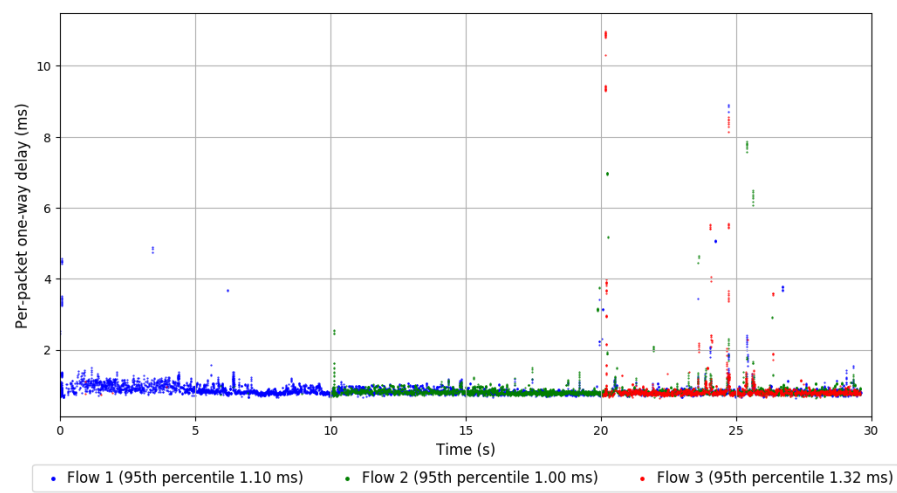
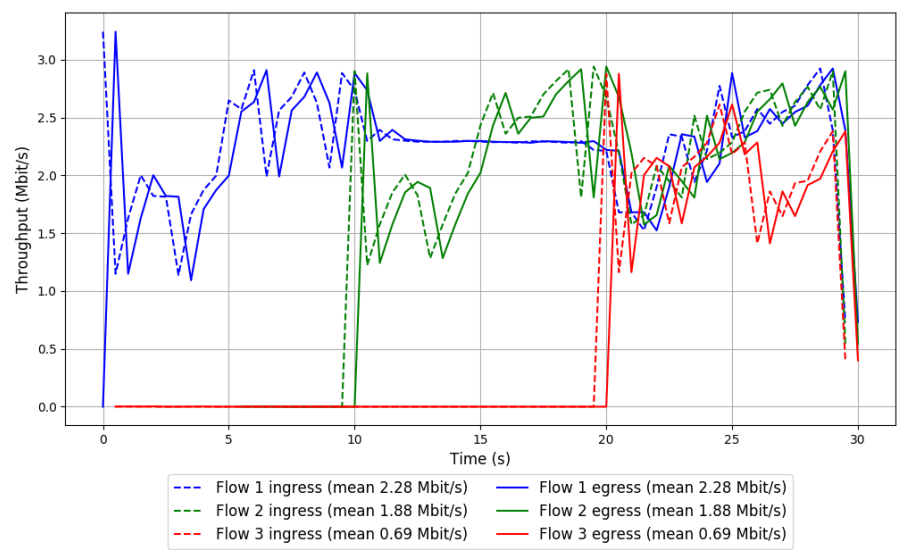


Run 1: Statistics of WebRTC media

Start at: 2019-10-02 22:39:32  
End at: 2019-10-02 22:40:02  
Local clock offset: 2.626 ms  
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2019-10-03 02:42:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.44 Mbit/s  
95th percentile per-packet one-way delay: 1.086 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 2.28 Mbit/s  
95th percentile per-packet one-way delay: 1.100 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 1.88 Mbit/s  
95th percentile per-packet one-way delay: 1.001 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.69 Mbit/s  
95th percentile per-packet one-way delay: 1.325 ms  
Loss rate: 0.04%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-10-02 23:14:33

End at: 2019-10-02 23:15:03

Local clock offset: 2.762 ms

Remote clock offset: 1.034 ms

# Below is generated by plot.py at 2019-10-03 02:42:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 4.732 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 2.542 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.892 ms

Loss rate: 0.00%

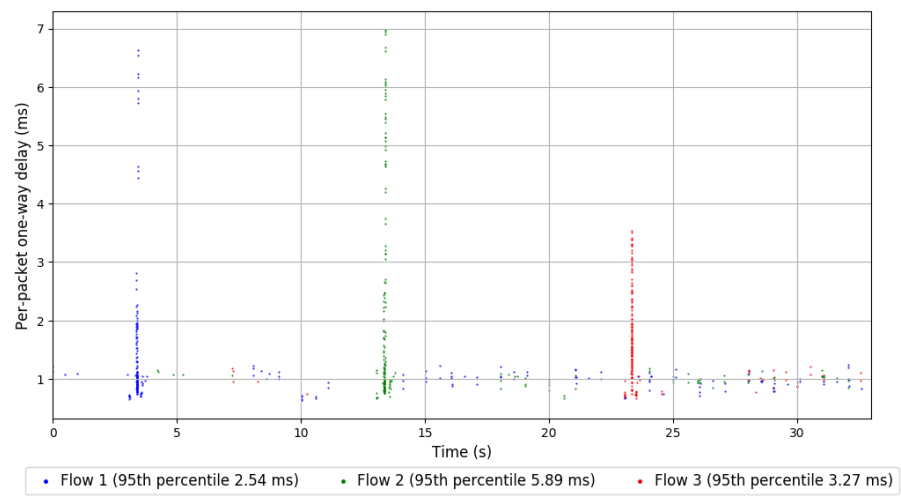
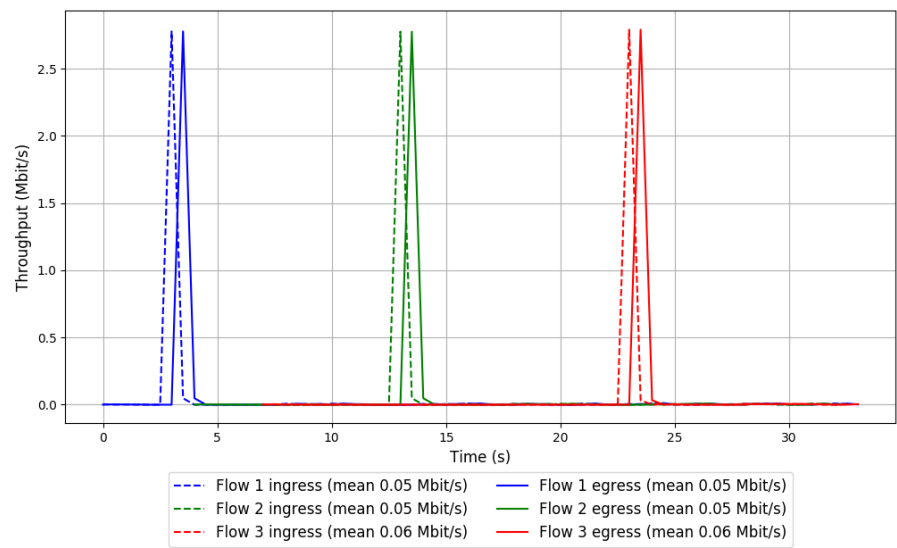
-- Flow 3:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 3.272 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-10-02 23:49:04

End at: 2019-10-02 23:49:34

Local clock offset: 4.337 ms

Remote clock offset: 0.317 ms

# Below is generated by plot.py at 2019-10-03 02:42:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 3.843 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.022 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.612 ms

Loss rate: 0.00%

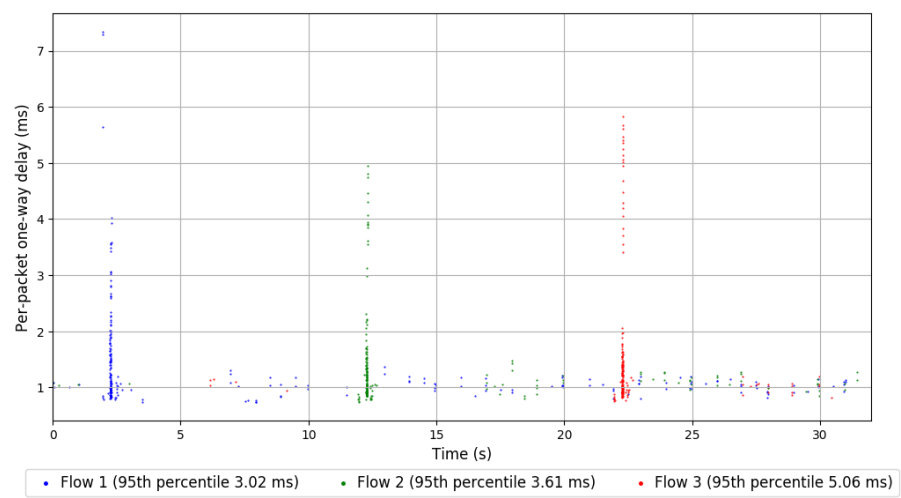
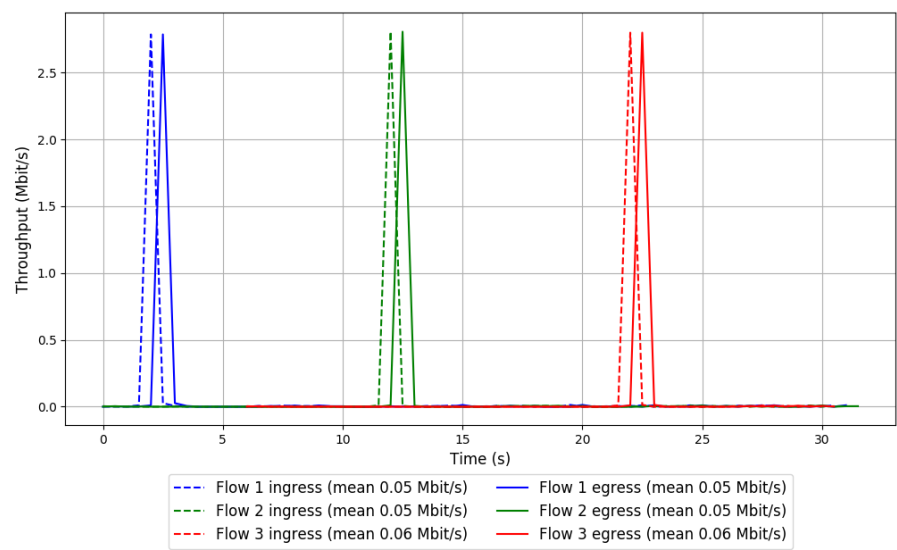
-- Flow 3:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 5.061 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-10-03 00:24:10

End at: 2019-10-03 00:24:40

Local clock offset: 4.32 ms

Remote clock offset: 0.138 ms

# Below is generated by plot.py at 2019-10-03 02:42:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 3.047 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 2.925 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 3.555 ms

Loss rate: 0.00%

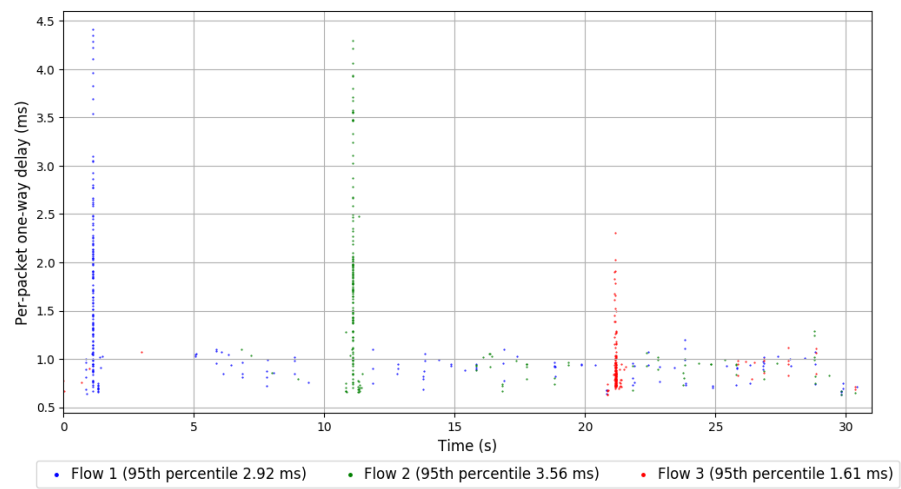
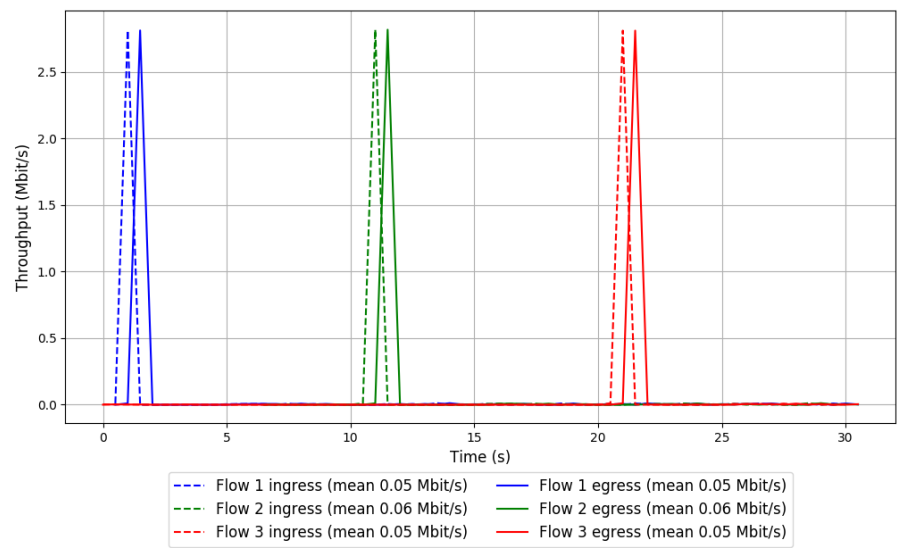
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.609 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-10-03 00:59:31

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

Local clock offset: 3.925 ms

Remote clock offset: 0.229 ms

# Below is generated by plot.py at 2019-10-03 02:42:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 2.806 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 2.234 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.886 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 7.925 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

