

## Pantheon Report

Generated at 2018-10-09 22:48:02 (UTC).

Data path: AWS India 1 on `ens5` (*local*) → India on `em1` (*remote*).

Repeated the test of 18 congestion control schemes 5 times.

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

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

### System info:

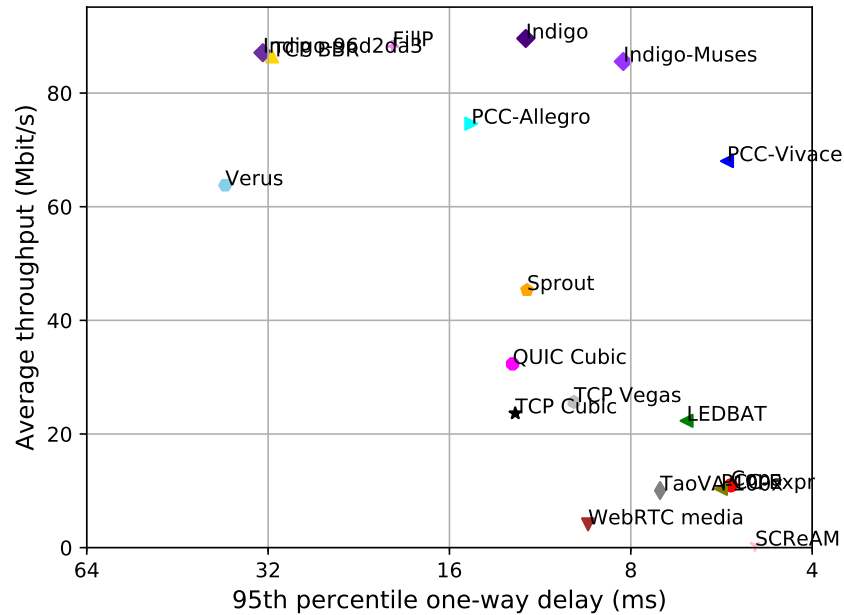
```
Linux 4.15.0-1023-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

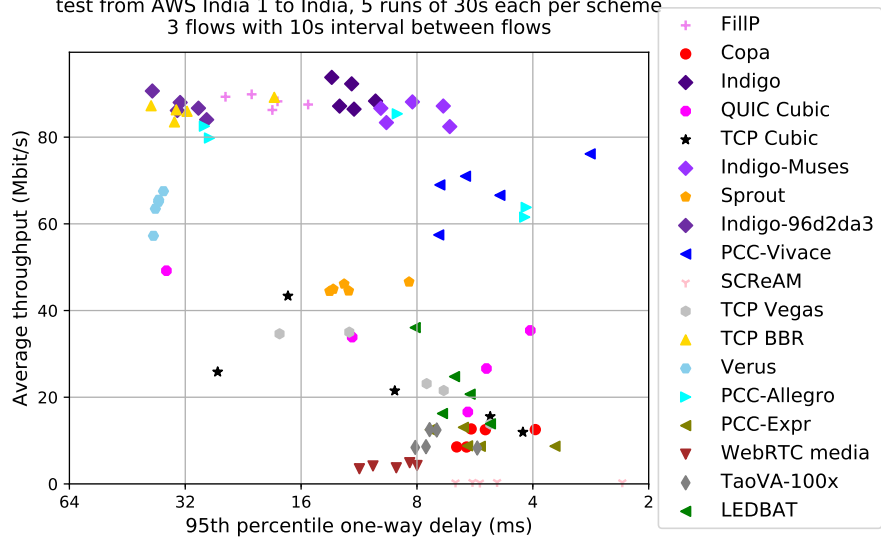
```
branch: muses @ 2e19c0464530faa92c63f8217c9971438a26a3be
third_party/fillp @ 5332fc9127c63565e13f4933b336c02d1aabdac6
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
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 India 1 to India, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



```
test from AWS India 1 to India, 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	54.85	31.90	31.59	28.09	34.02	23.99	11.05	13.22	15.75
Copa	5	5.23	7.46	2.37	5.88	6.77	5.31	81.19	71.73	86.51
TCP Cubic	5	12.89	10.20	11.88	14.97	7.49	9.97	0.68	0.74	1.01
FillP	5	54.10	36.42	30.10	19.90	19.14	20.54	21.74	32.03	35.32
Indigo	5	52.41	38.53	36.51	11.37	12.66	13.59	8.24	9.37	12.49
Indigo-96d2da3	5	59.43	28.51	28.39	33.83	30.18	28.92	47.20	51.82	55.24
LEDBAT	5	12.55	10.19	9.64	6.29	6.57	6.38	1.07	1.15	1.22
Indigo-Muses	5	47.18	38.69	38.73	8.20	8.11	8.37	8.21	6.62	10.74
PCC-Allegro	5	68.80	7.23	3.04	14.43	16.06	15.43	7.89	7.80	8.19
PCC-Expr	5	3.19	8.18	5.28	6.12	5.68	5.66	69.79	32.81	34.88
QUIC Cubic	5	17.33	15.05	15.16	11.92	9.94	16.49	1.99	2.03	2.44
SCReAM	5	0.17	0.19	0.21	4.75	4.80	4.82	0.25	0.30	0.16
Sprout	5	23.15	22.76	21.33	11.32	12.00	12.81	2.32	2.54	4.26
TaoVA-100x	5	2.15	8.74	7.48	6.60	6.93	10.89	91.32	87.89	79.42
TCP Vegas	5	13.27	12.15	12.82	9.12	15.28	9.86	1.36	1.54	1.44
Verus	5	40.63	24.06	22.19	35.23	39.03	39.37	31.20	51.39	45.51
PCC-Vivace	5	48.38	20.48	18.09	5.02	6.59	8.70	6.88	6.99	6.86
WebRTC media	5	2.27	1.42	0.43	9.32	9.39	9.23	0.54	0.45	0.80

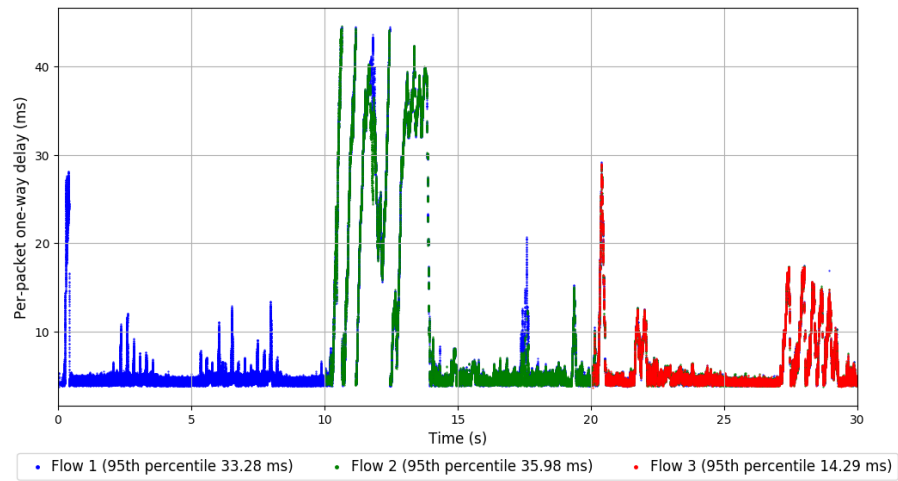
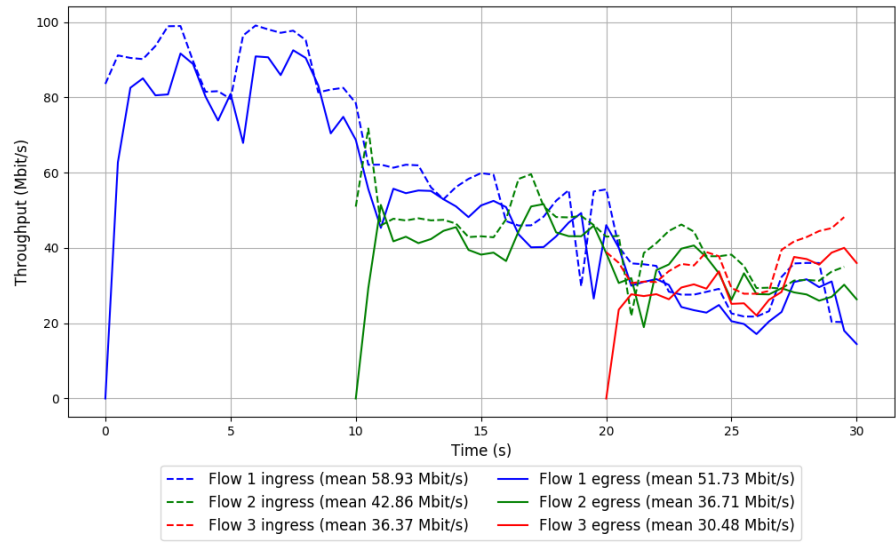


Run 1: Statistics of TCP BBR

Start at: 2018-10-09 21:10:30  
End at: 2018-10-09 21:11:00  
Local clock offset: 3.34 ms  
Remote clock offset: -3.704 ms

# Below is generated by plot.py at 2018-10-09 22:41:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.31 Mbit/s  
95th percentile per-packet one-way delay: 33.771 ms  
Loss rate: 13.32%  
-- Flow 1:  
Average throughput: 51.73 Mbit/s  
95th percentile per-packet one-way delay: 33.279 ms  
Loss rate: 12.22%  
-- Flow 2:  
Average throughput: 36.71 Mbit/s  
95th percentile per-packet one-way delay: 35.980 ms  
Loss rate: 14.36%  
-- Flow 3:  
Average throughput: 30.48 Mbit/s  
95th percentile per-packet one-way delay: 14.289 ms  
Loss rate: 16.20%

# Run 1: Report of TCP BBR — Data Link

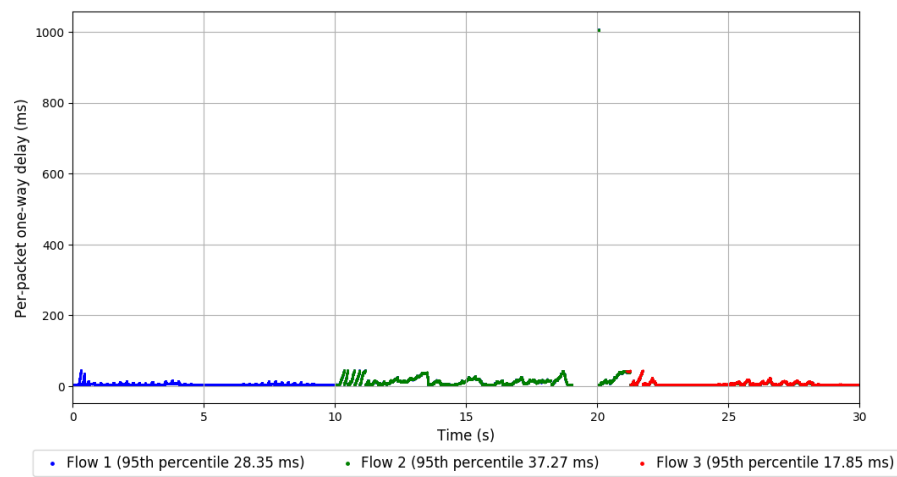
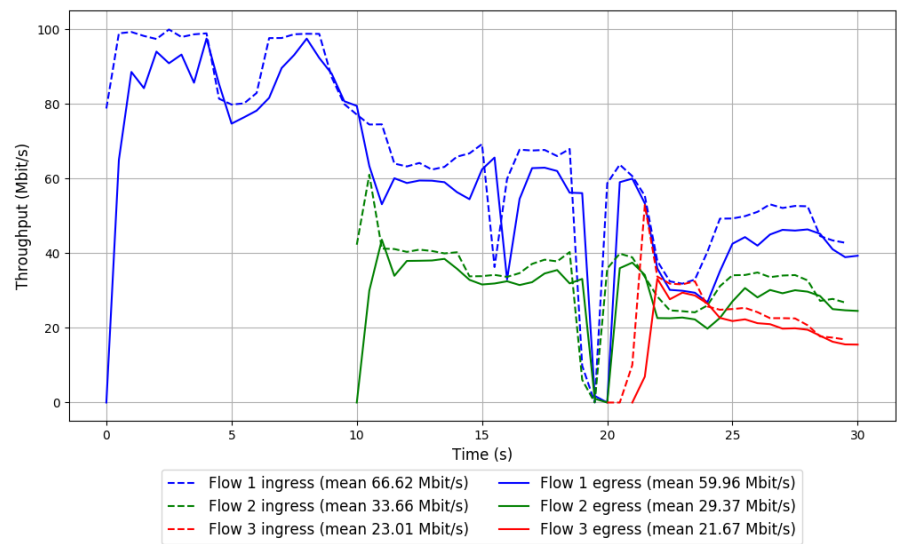


Run 2: Statistics of TCP BBR

Start at: 2018-10-09 21:31:40  
End at: 2018-10-09 21:32:10  
Local clock offset: 3.176 ms  
Remote clock offset: -5.093 ms

# Below is generated by plot.py at 2018-10-09 22:41:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.97 Mbit/s  
95th percentile per-packet one-way delay: 31.660 ms  
Loss rate: 11.09%  
-- Flow 1:  
Average throughput: 59.96 Mbit/s  
95th percentile per-packet one-way delay: 28.346 ms  
Loss rate: 9.99%  
-- Flow 2:  
Average throughput: 29.37 Mbit/s  
95th percentile per-packet one-way delay: 37.273 ms  
Loss rate: 12.75%  
-- Flow 3:  
Average throughput: 21.67 Mbit/s  
95th percentile per-packet one-way delay: 17.849 ms  
Loss rate: 15.80%

Run 2: Report of TCP BBR — Data Link

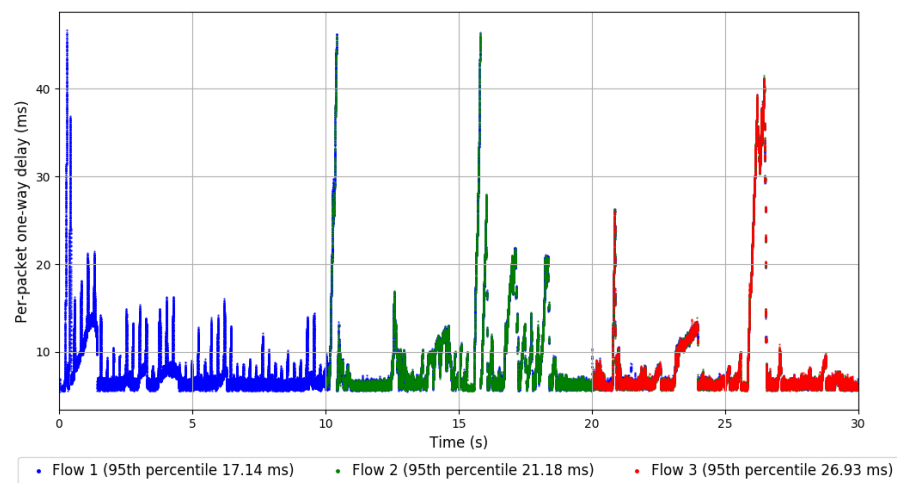
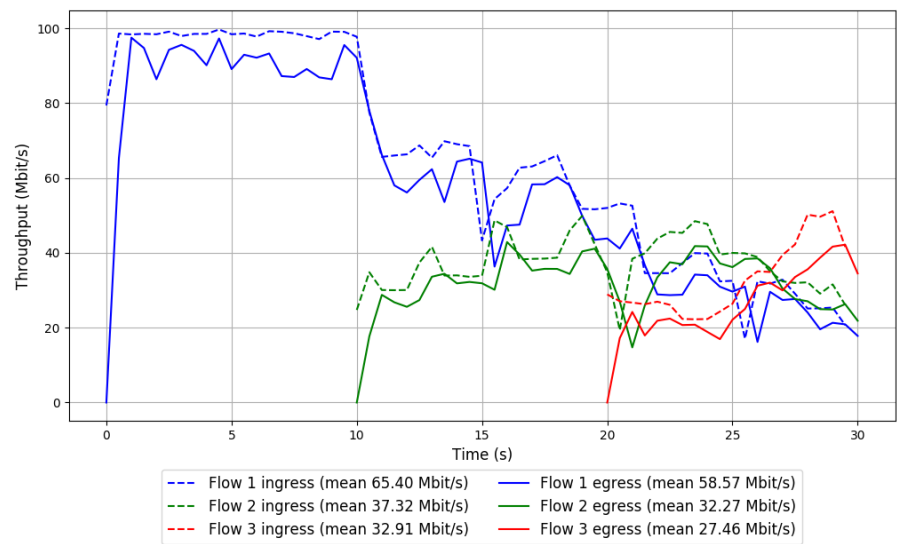


Run 3: Statistics of TCP BBR

Start at: 2018-10-09 21:52:40  
End at: 2018-10-09 21:53:10  
Local clock offset: 0.747 ms  
Remote clock offset: -5.541 ms

# Below is generated by plot.py at 2018-10-09 22:41:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.20 Mbit/s  
95th percentile per-packet one-way delay: 18.787 ms  
Loss rate: 11.88%  
-- Flow 1:  
Average throughput: 58.57 Mbit/s  
95th percentile per-packet one-way delay: 17.142 ms  
Loss rate: 10.45%  
-- Flow 2:  
Average throughput: 32.27 Mbit/s  
95th percentile per-packet one-way delay: 21.185 ms  
Loss rate: 13.56%  
-- Flow 3:  
Average throughput: 27.46 Mbit/s  
95th percentile per-packet one-way delay: 26.929 ms  
Loss rate: 16.59%

Run 3: Report of TCP BBR — Data Link

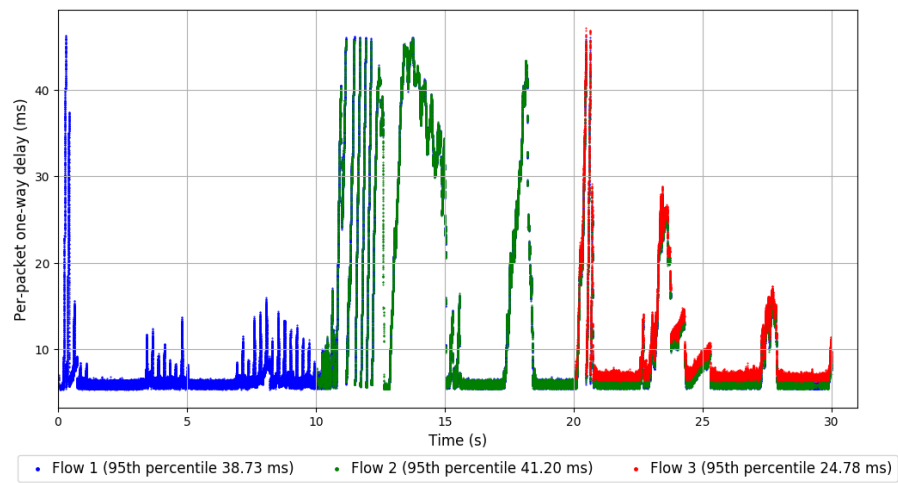
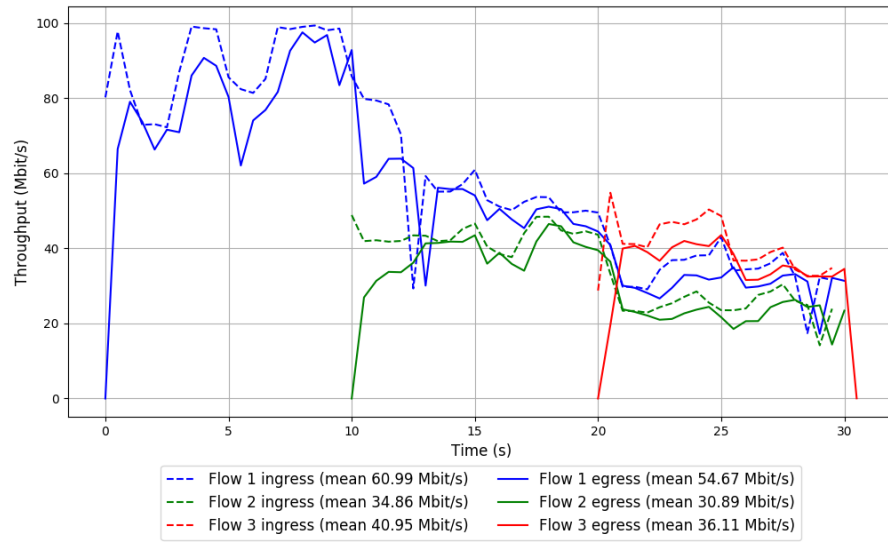


Run 4: Statistics of TCP BBR

Start at: 2018-10-09 22:13:54  
End at: 2018-10-09 22:14:24  
Local clock offset: 0.226 ms  
Remote clock offset: -4.191 ms

# Below is generated by plot.py at 2018-10-09 22:41:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.25 Mbit/s  
95th percentile per-packet one-way delay: 39.255 ms  
Loss rate: 10.81%  
-- Flow 1:  
Average throughput: 54.67 Mbit/s  
95th percentile per-packet one-way delay: 38.728 ms  
Loss rate: 10.35%  
-- Flow 2:  
Average throughput: 30.89 Mbit/s  
95th percentile per-packet one-way delay: 41.199 ms  
Loss rate: 11.40%  
-- Flow 3:  
Average throughput: 36.11 Mbit/s  
95th percentile per-packet one-way delay: 24.783 ms  
Loss rate: 11.82%

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





Run 5: Statistics of TCP BBR

Start at: 2018-10-09 22:35:09

End at: 2018-10-09 22:35:39

Local clock offset: 0.18 ms

Remote clock offset: -4.96 ms

# Below is generated by plot.py at 2018-10-09 22:41:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.52 Mbit/s

95th percentile per-packet one-way delay: 34.136 ms

Loss rate: 13.77%

-- Flow 1:

Average throughput: 49.31 Mbit/s

95th percentile per-packet one-way delay: 22.959 ms

Loss rate: 12.26%

-- Flow 2:

Average throughput: 30.27 Mbit/s

95th percentile per-packet one-way delay: 34.475 ms

Loss rate: 14.05%

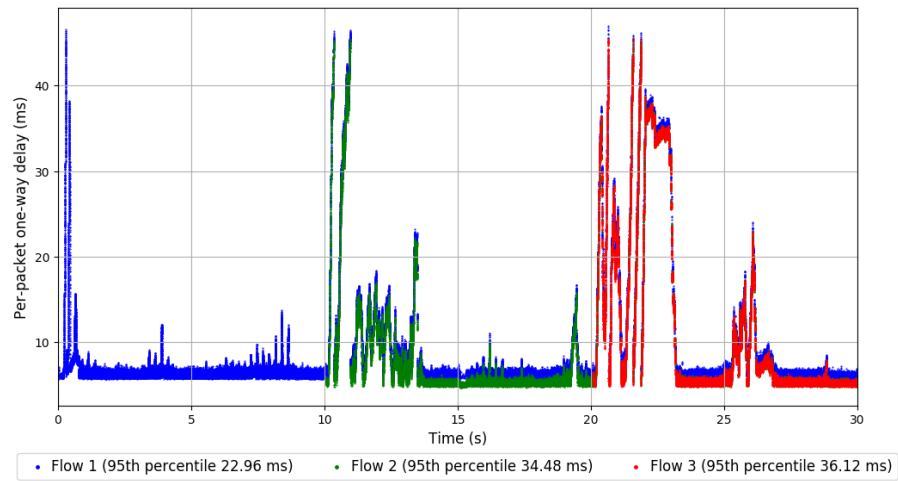
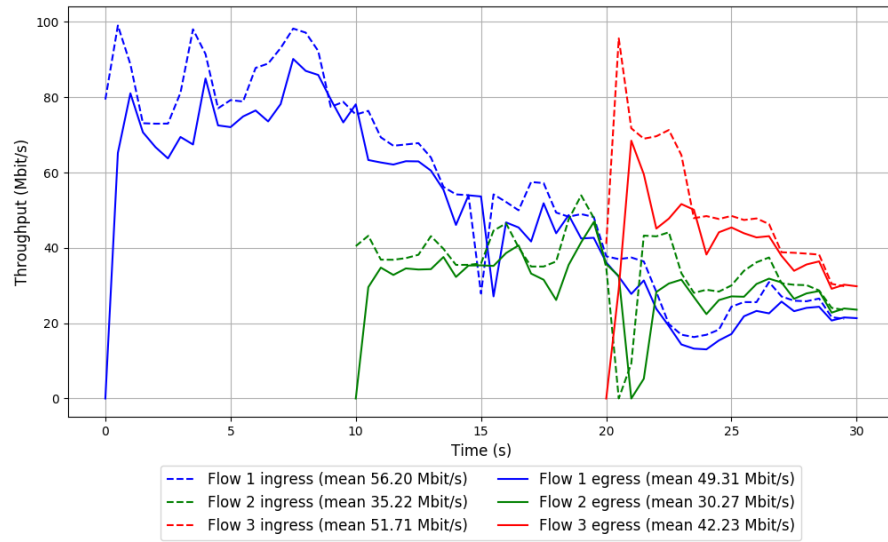
-- Flow 3:

Average throughput: 42.23 Mbit/s

95th percentile per-packet one-way delay: 36.121 ms

Loss rate: 18.34%

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

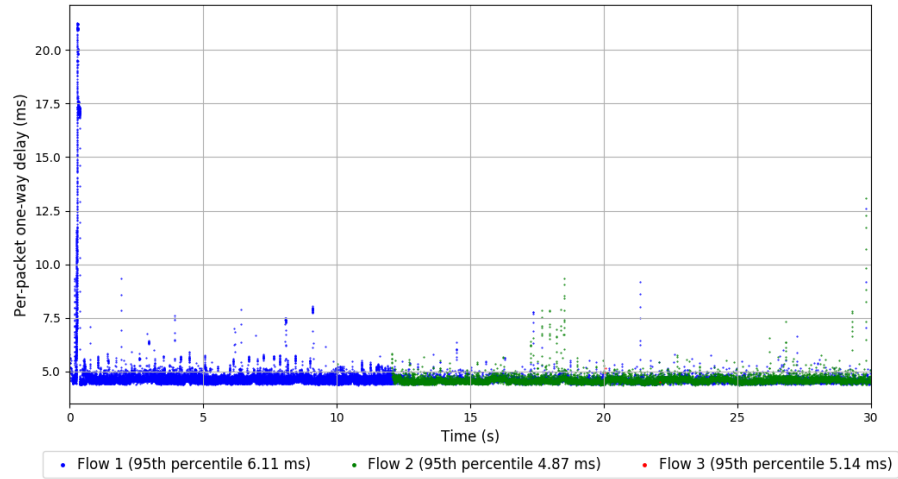
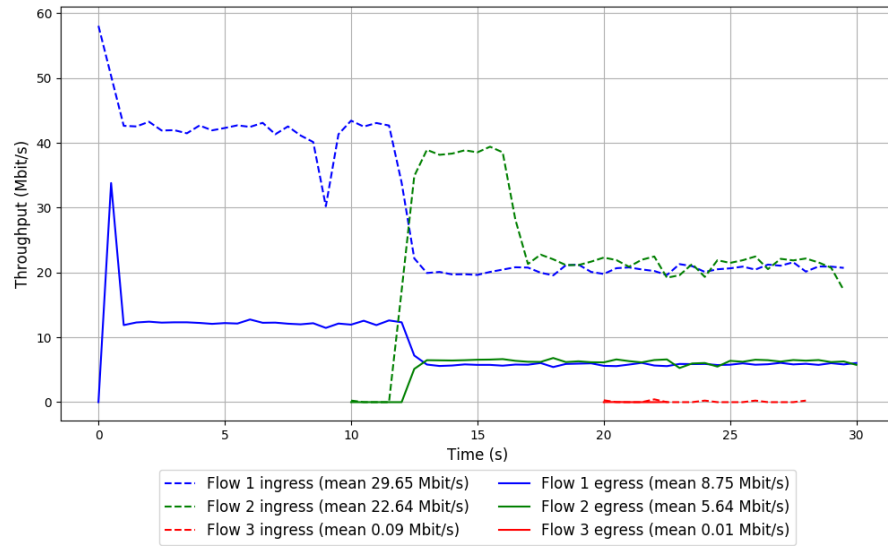


Run 1: Statistics of Copa

Start at: 2018-10-09 21:02:24  
End at: 2018-10-09 21:02:54  
Local clock offset: 1.384 ms  
Remote clock offset: -4.942 ms

# Below is generated by plot.py at 2018-10-09 22:41:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.51 Mbit/s  
95th percentile per-packet one-way delay: 5.313 ms  
Loss rate: 72.04%  
-- Flow 1:  
Average throughput: 8.75 Mbit/s  
95th percentile per-packet one-way delay: 6.109 ms  
Loss rate: 70.48%  
-- Flow 2:  
Average throughput: 5.64 Mbit/s  
95th percentile per-packet one-way delay: 4.870 ms  
Loss rate: 75.07%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 5.145 ms  
Loss rate: 96.53%

## Run 1: Report of Copa — Data Link

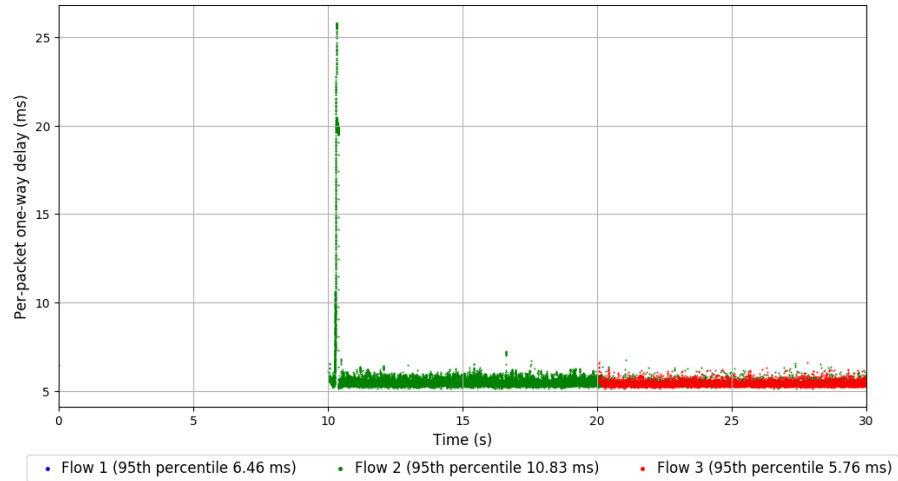
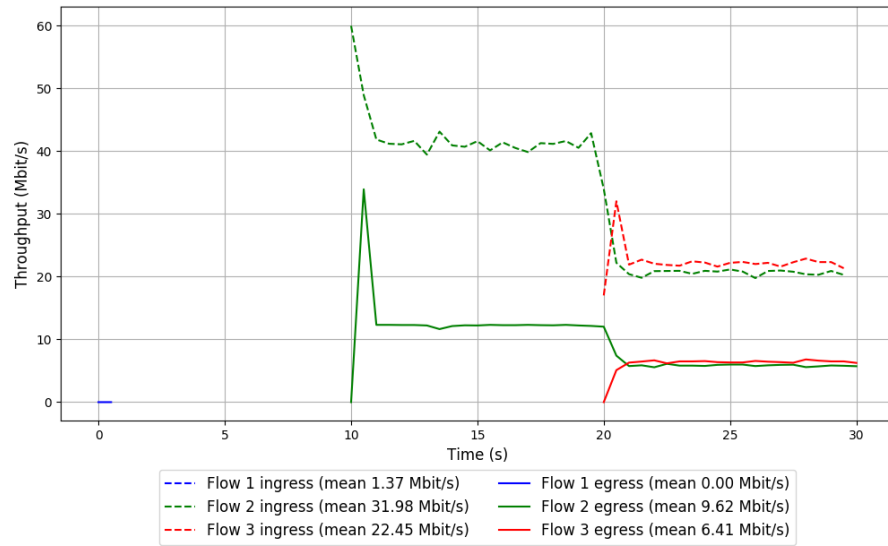


Run 2: Statistics of Copa

Start at: 2018-10-09 21:23:35  
End at: 2018-10-09 21:24:05  
Local clock offset: 1.024 ms  
Remote clock offset: -4.857 ms

# Below is generated by plot.py at 2018-10-09 22:41:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.54 Mbit/s  
95th percentile per-packet one-way delay: 6.307 ms  
Loss rate: 70.32%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 6.463 ms  
Loss rate: 97.92%  
-- Flow 2:  
Average throughput: 9.62 Mbit/s  
95th percentile per-packet one-way delay: 10.827 ms  
Loss rate: 69.92%  
-- Flow 3:  
Average throughput: 6.41 Mbit/s  
95th percentile per-packet one-way delay: 5.756 ms  
Loss rate: 71.46%

## Run 2: Report of Copa — Data Link

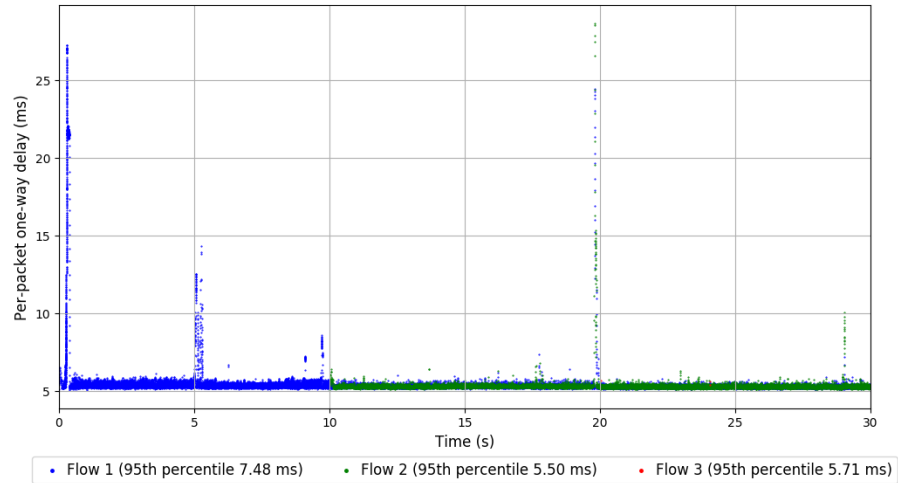
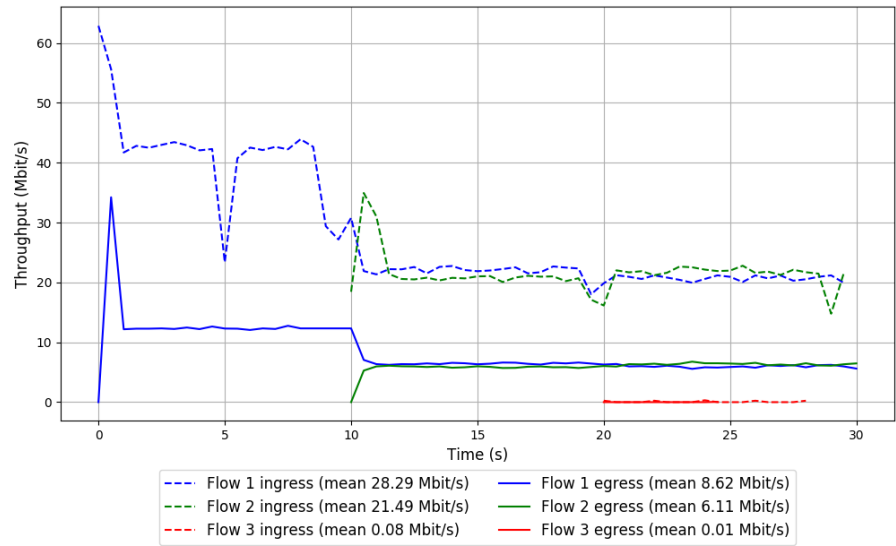


Run 3: Statistics of Copa

Start at: 2018-10-09 21:44:35  
End at: 2018-10-09 21:45:05  
Local clock offset: 1.937 ms  
Remote clock offset: -4.683 ms

# Below is generated by plot.py at 2018-10-09 22:41:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.69 Mbit/s  
95th percentile per-packet one-way delay: 5.785 ms  
Loss rate: 70.23%  
-- Flow 1:  
Average throughput: 8.62 Mbit/s  
95th percentile per-packet one-way delay: 7.481 ms  
Loss rate: 69.54%  
-- Flow 2:  
Average throughput: 6.11 Mbit/s  
95th percentile per-packet one-way delay: 5.500 ms  
Loss rate: 71.56%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 5.712 ms  
Loss rate: 96.07%

### Run 3: Report of Copa — Data Link



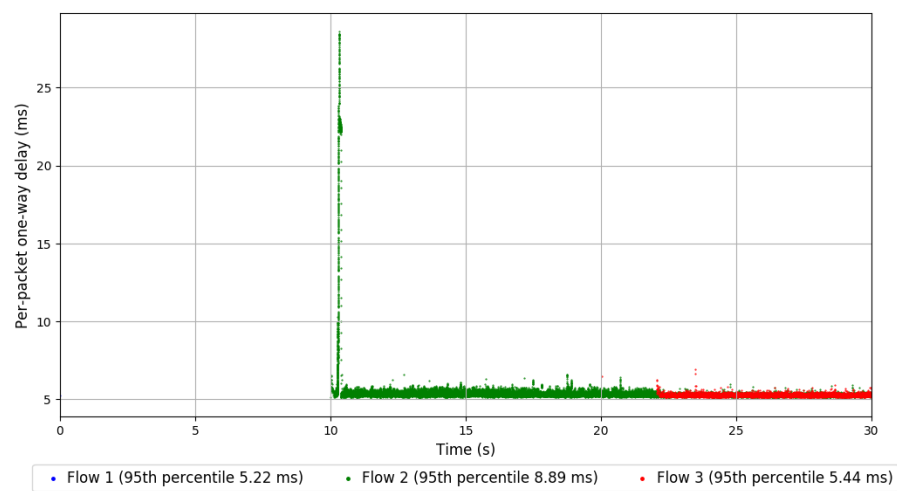
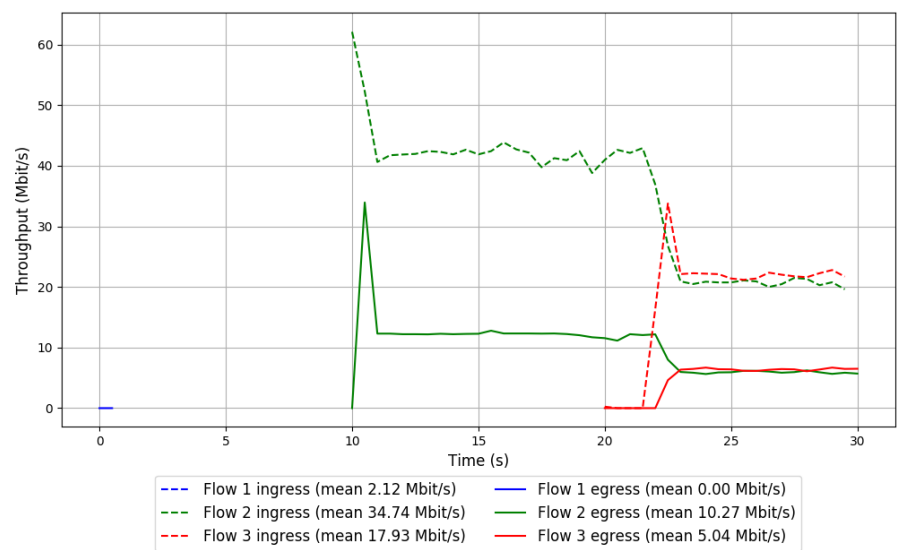


Run 4: Statistics of Copa

Start at: 2018-10-09 22:05:50  
End at: 2018-10-09 22:06:20  
Local clock offset: 1.017 ms  
Remote clock offset: -4.888 ms

```
# Below is generated by plot.py at 2018-10-09 22:41:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.52 Mbit/s
95th percentile per-packet one-way delay: 5.947 ms
Loss rate: 70.73%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 5.225 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 10.27 Mbit/s
95th percentile per-packet one-way delay: 8.893 ms
Loss rate: 70.43%
-- Flow 3:
Average throughput: 5.04 Mbit/s
95th percentile per-packet one-way delay: 5.439 ms
Loss rate: 71.87%
```

Run 4: Report of Copa — Data Link

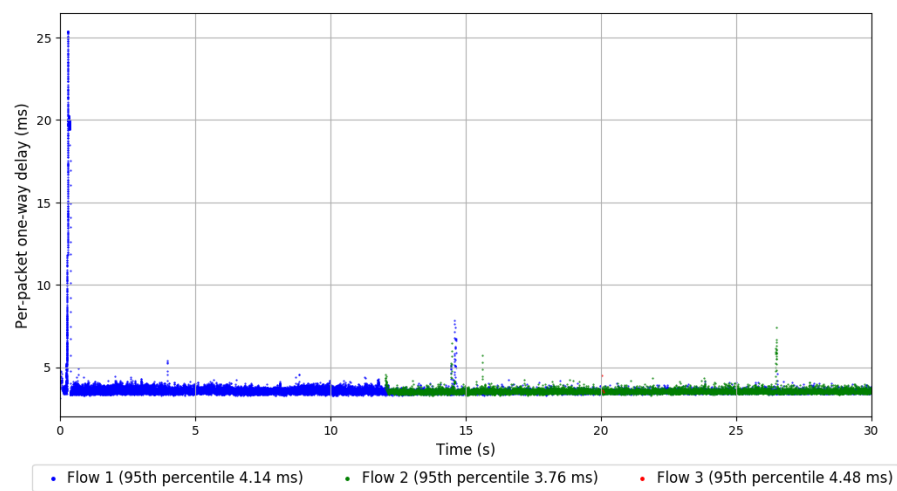
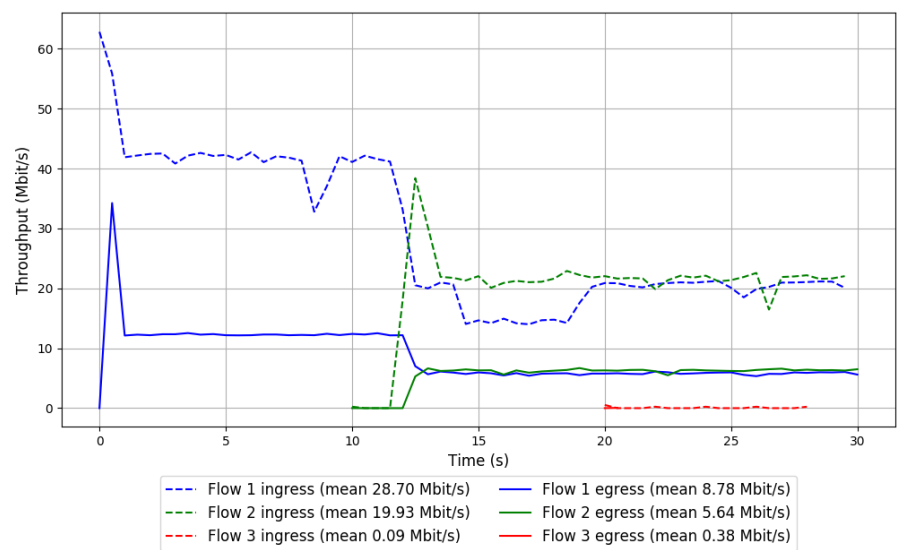


Run 5: Statistics of Copa

Start at: 2018-10-09 22:27:02  
End at: 2018-10-09 22:27:32  
Local clock offset: 2.276 ms  
Remote clock offset: -5.108 ms

```
# Below is generated by plot.py at 2018-10-09 22:41:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 3.941 ms
Loss rate: 70.15%
-- Flow 1:
Average throughput: 8.78 Mbit/s
95th percentile per-packet one-way delay: 4.142 ms
Loss rate: 69.42%
-- Flow 2:
Average throughput: 5.64 Mbit/s
95th percentile per-packet one-way delay: 3.758 ms
Loss rate: 71.68%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 4.476 ms
Loss rate: 96.64%
```

Run 5: Report of Copa — Data Link

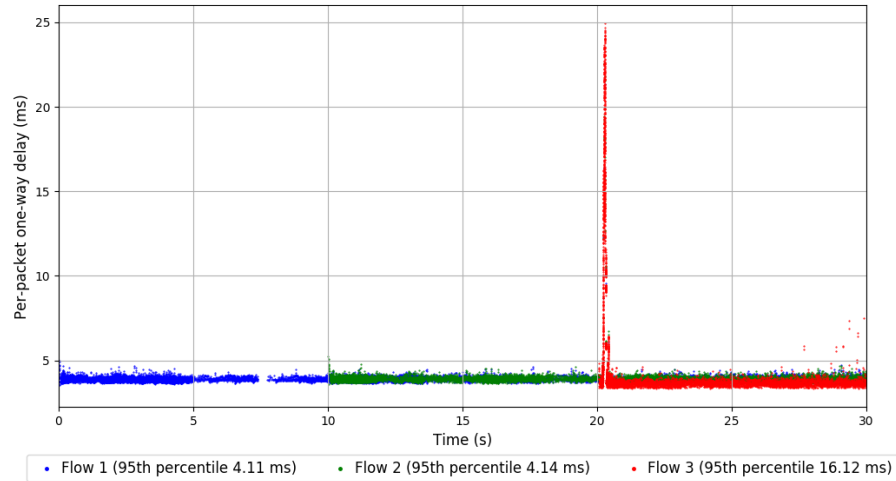
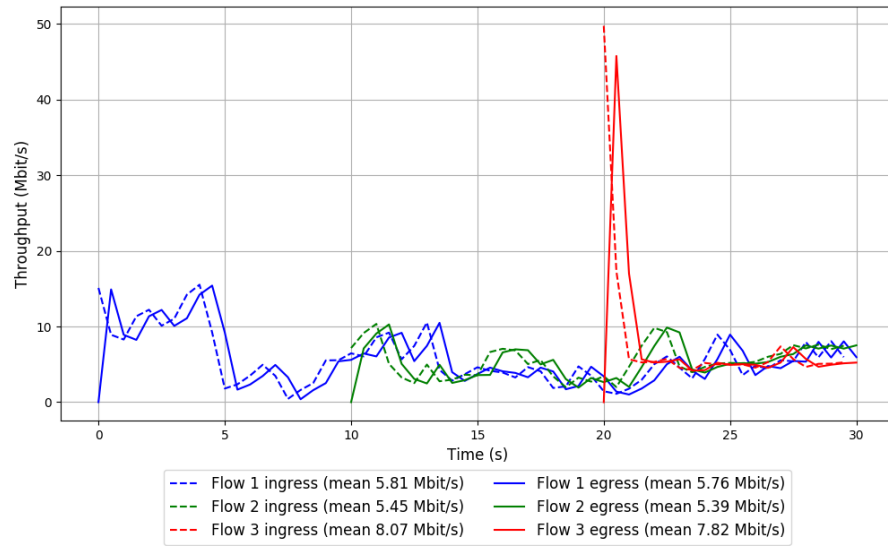


Run 1: Statistics of TCP Cubic

Start at: 2018-10-09 21:03:33  
End at: 2018-10-09 21:04:03  
Local clock offset: 2.737 ms  
Remote clock offset: -4.651 ms

# Below is generated by plot.py at 2018-10-09 22:41:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.95 Mbit/s  
95th percentile per-packet one-way delay: 4.245 ms  
Loss rate: 1.45%  
-- Flow 1:  
Average throughput: 5.76 Mbit/s  
95th percentile per-packet one-way delay: 4.112 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 5.39 Mbit/s  
95th percentile per-packet one-way delay: 4.140 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 7.82 Mbit/s  
95th percentile per-packet one-way delay: 16.121 ms  
Loss rate: 3.15%

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

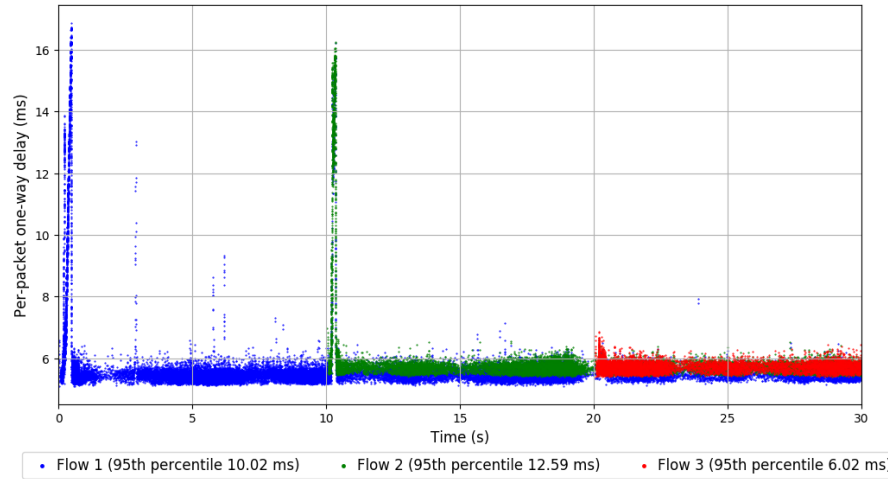
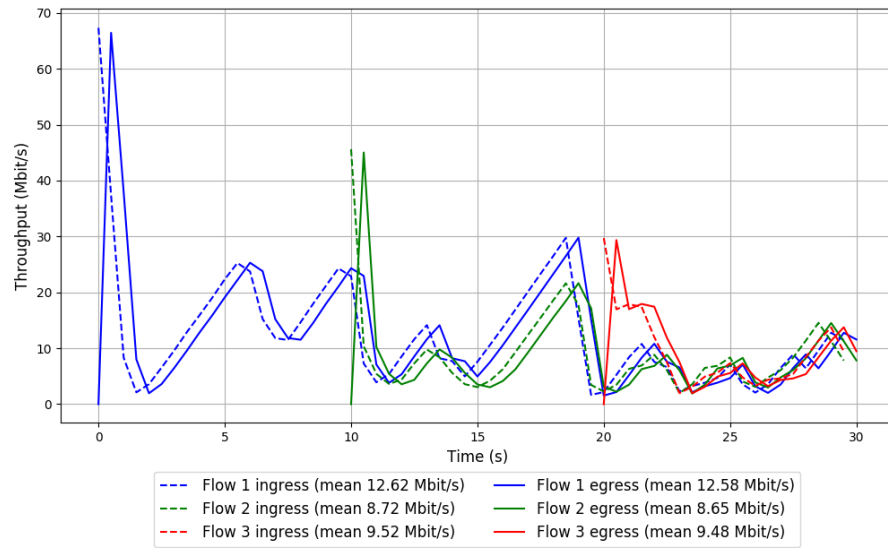


Run 2: Statistics of TCP Cubic

Start at: 2018-10-09 21:24:42  
End at: 2018-10-09 21:25:12  
Local clock offset: 0.945 ms  
Remote clock offset: -4.979 ms

# Below is generated by plot.py at 2018-10-09 22:41:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.49 Mbit/s  
95th percentile per-packet one-way delay: 9.137 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 12.58 Mbit/s  
95th percentile per-packet one-way delay: 10.022 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 8.65 Mbit/s  
95th percentile per-packet one-way delay: 12.594 ms  
Loss rate: 0.83%  
-- Flow 3:  
Average throughput: 9.48 Mbit/s  
95th percentile per-packet one-way delay: 6.019 ms  
Loss rate: 0.35%

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



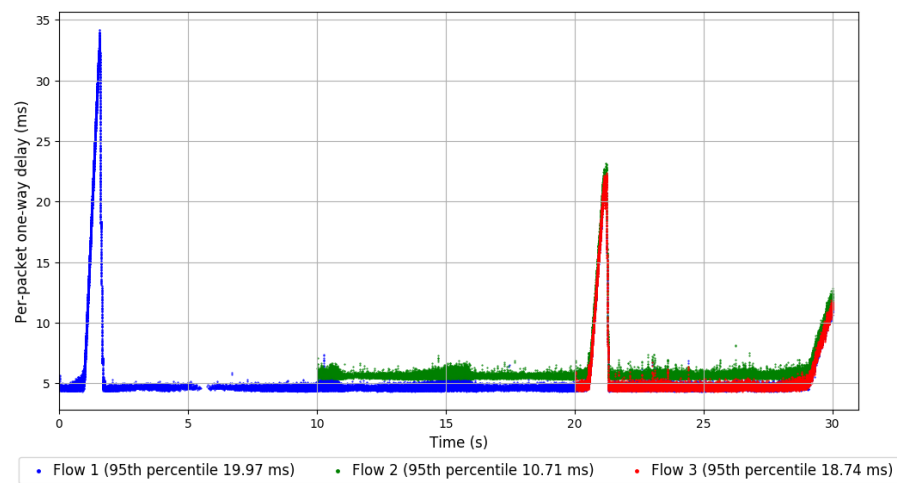
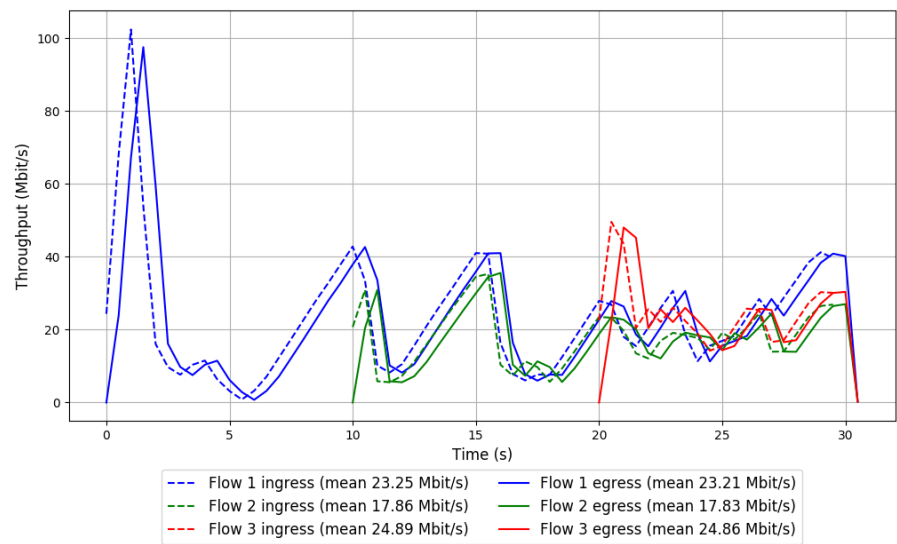


Run 3: Statistics of TCP Cubic

Start at: 2018-10-09 21:45:43  
End at: 2018-10-09 21:46:13  
Local clock offset: 1.492 ms  
Remote clock offset: -4.927 ms

# Below is generated by plot.py at 2018-10-09 22:41:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 43.36 Mbit/s  
95th percentile per-packet one-way delay: 17.311 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 23.21 Mbit/s  
95th percentile per-packet one-way delay: 19.969 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 17.83 Mbit/s  
95th percentile per-packet one-way delay: 10.707 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 24.86 Mbit/s  
95th percentile per-packet one-way delay: 18.739 ms  
Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link

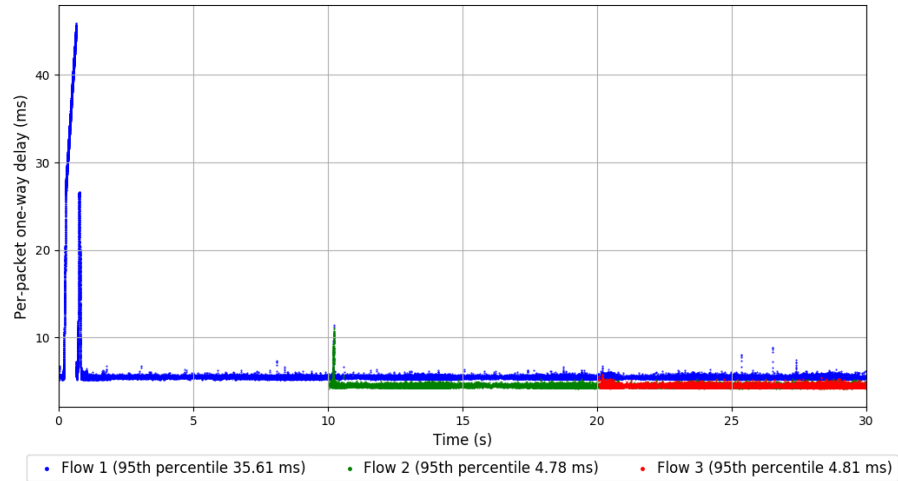
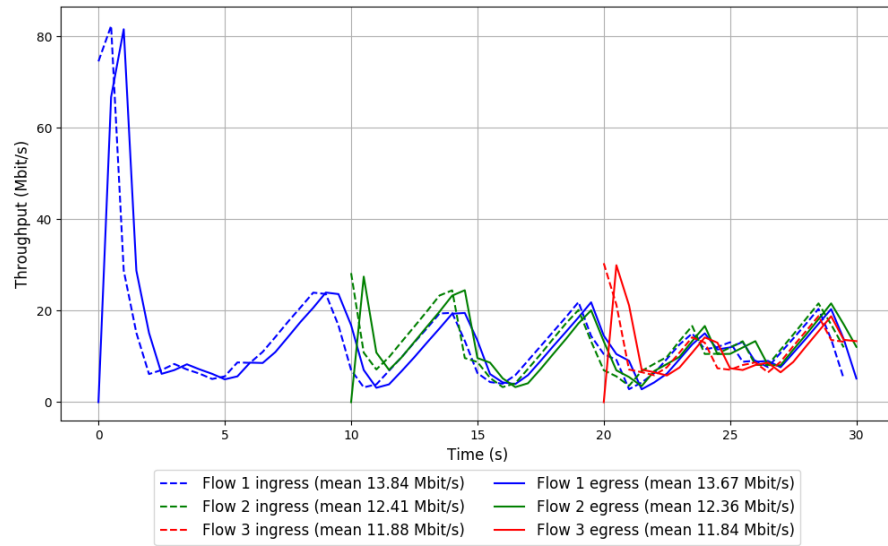


Run 4: Statistics of TCP Cubic

Start at: 2018-10-09 22:06:57  
End at: 2018-10-09 22:07:27  
Local clock offset: 0.968 ms  
Remote clock offset: -4.822 ms

# Below is generated by plot.py at 2018-10-09 22:41:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 25.85 Mbit/s  
95th percentile per-packet one-way delay: 26.361 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 13.67 Mbit/s  
95th percentile per-packet one-way delay: 35.614 ms  
Loss rate: 1.22%  
-- Flow 2:  
Average throughput: 12.36 Mbit/s  
95th percentile per-packet one-way delay: 4.778 ms  
Loss rate: 0.35%  
-- Flow 3:  
Average throughput: 11.84 Mbit/s  
95th percentile per-packet one-way delay: 4.809 ms  
Loss rate: 0.33%

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



Run 5: Statistics of TCP Cubic

Start at: 2018-10-09 22:28:10

End at: 2018-10-09 22:28:40

Local clock offset: 0.574 ms

Remote clock offset: -5.62 ms

# Below is generated by plot.py at 2018-10-09 22:41:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.54 Mbit/s

95th percentile per-packet one-way delay: 5.161 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 9.23 Mbit/s

95th percentile per-packet one-way delay: 5.148 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 6.79 Mbit/s

95th percentile per-packet one-way delay: 5.253 ms

Loss rate: 1.31%

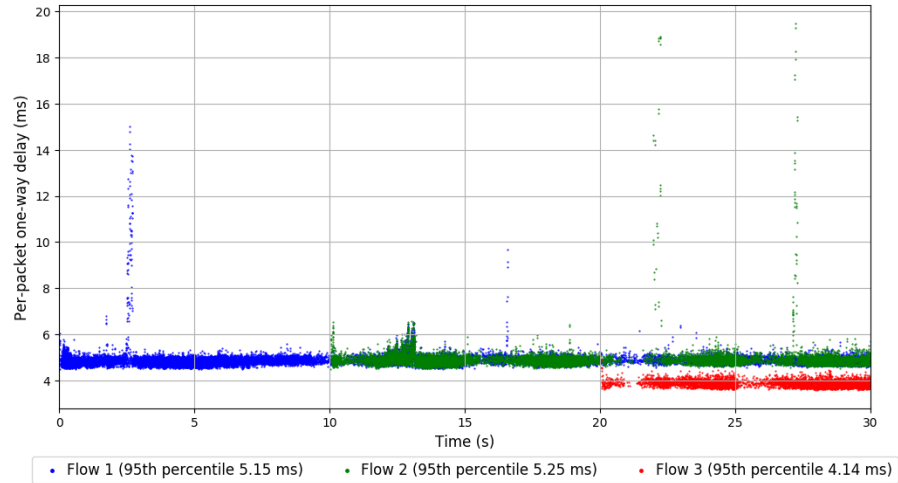
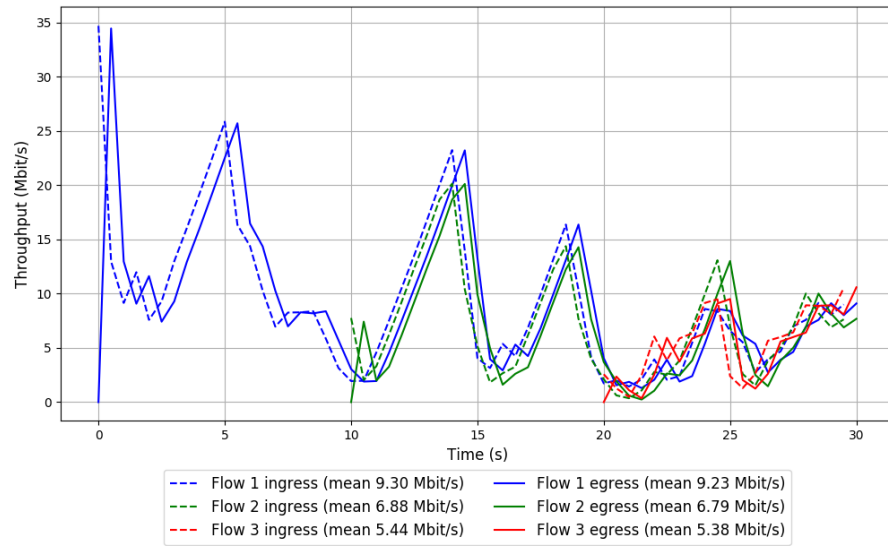
-- Flow 3:

Average throughput: 5.38 Mbit/s

95th percentile per-packet one-way delay: 4.145 ms

Loss rate: 1.15%

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

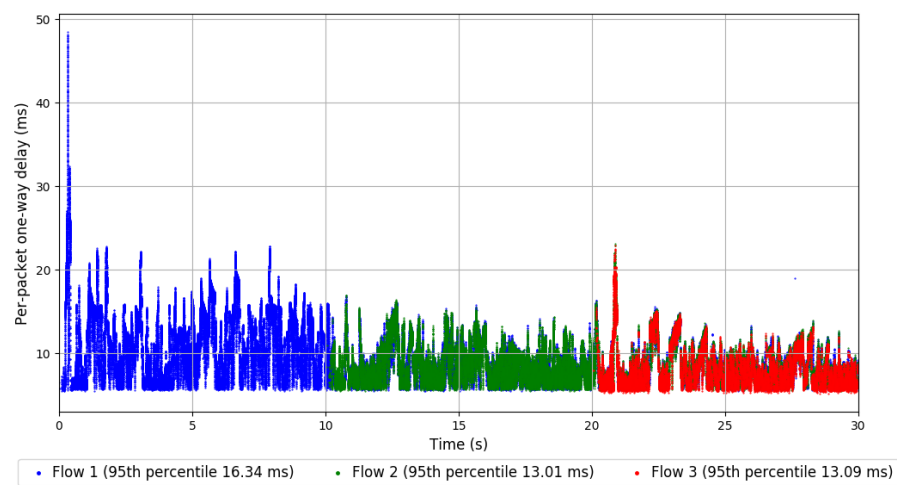
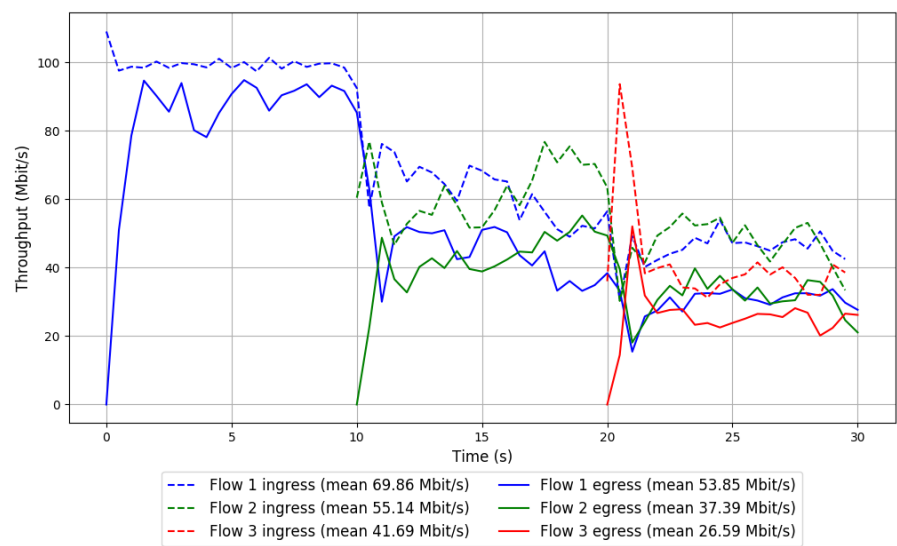


Run 1: Statistics of FillP

Start at: 2018-10-09 20:56:22  
End at: 2018-10-09 20:56:52  
Local clock offset: 1.054 ms  
Remote clock offset: -4.091 ms

# Below is generated by plot.py at 2018-10-09 22:42:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.53 Mbit/s  
95th percentile per-packet one-way delay: 15.341 ms  
Loss rate: 27.27%  
-- Flow 1:  
Average throughput: 53.85 Mbit/s  
95th percentile per-packet one-way delay: 16.338 ms  
Loss rate: 22.92%  
-- Flow 2:  
Average throughput: 37.39 Mbit/s  
95th percentile per-packet one-way delay: 13.012 ms  
Loss rate: 32.19%  
-- Flow 3:  
Average throughput: 26.59 Mbit/s  
95th percentile per-packet one-way delay: 13.086 ms  
Loss rate: 36.22%

Run 1: Report of FillP — Data Link



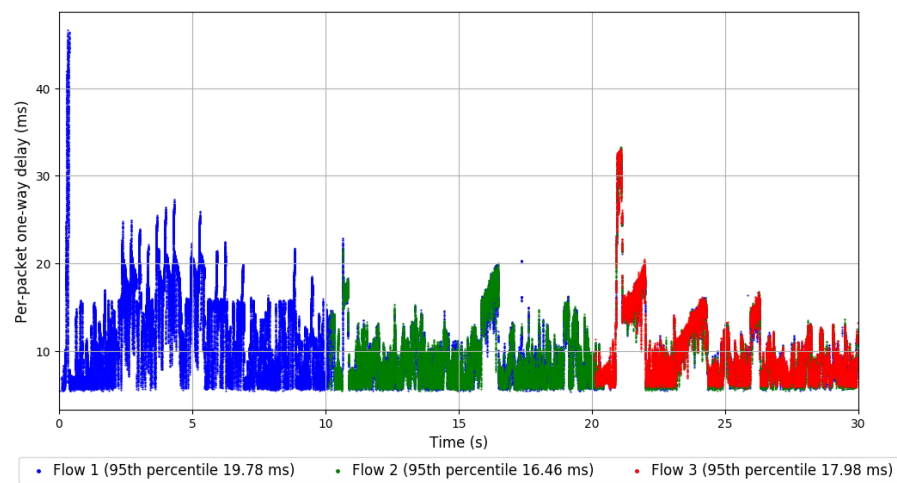
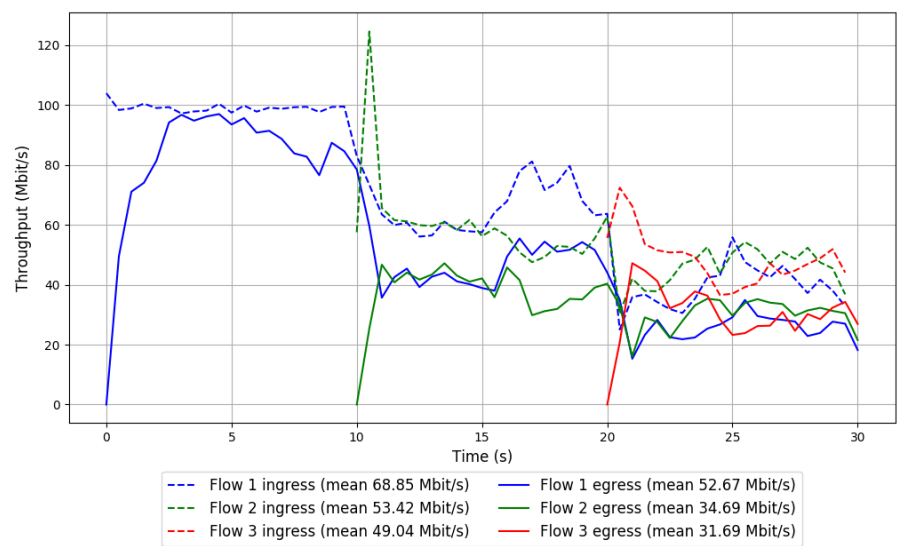


Run 2: Statistics of FillP

Start at: 2018-10-09 21:17:34  
End at: 2018-10-09 21:18:04  
Local clock offset: 1.116 ms  
Remote clock offset: -4.123 ms

# Below is generated by plot.py at 2018-10-09 22:42:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.27 Mbit/s  
95th percentile per-packet one-way delay: 19.003 ms  
Loss rate: 28.50%  
-- Flow 1:  
Average throughput: 52.67 Mbit/s  
95th percentile per-packet one-way delay: 19.781 ms  
Loss rate: 23.48%  
-- Flow 2:  
Average throughput: 34.69 Mbit/s  
95th percentile per-packet one-way delay: 16.459 ms  
Loss rate: 35.07%  
-- Flow 3:  
Average throughput: 31.69 Mbit/s  
95th percentile per-packet one-way delay: 17.979 ms  
Loss rate: 35.35%

Run 2: Report of FillP — Data Link

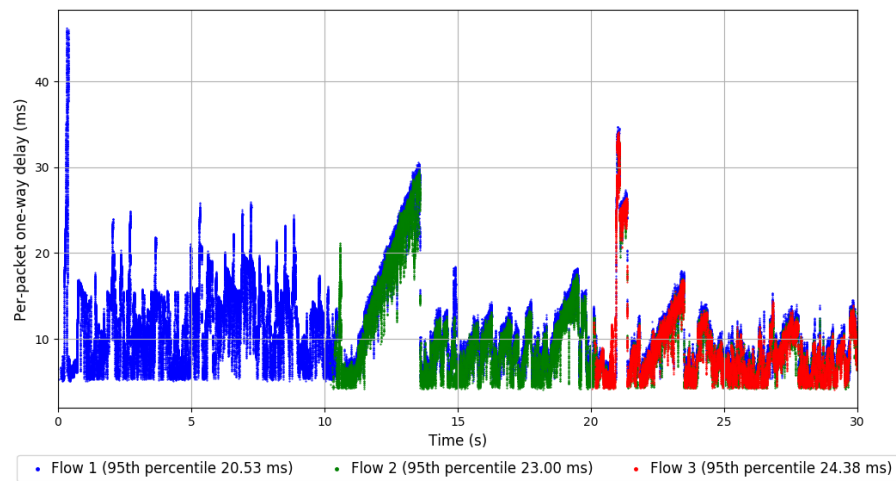
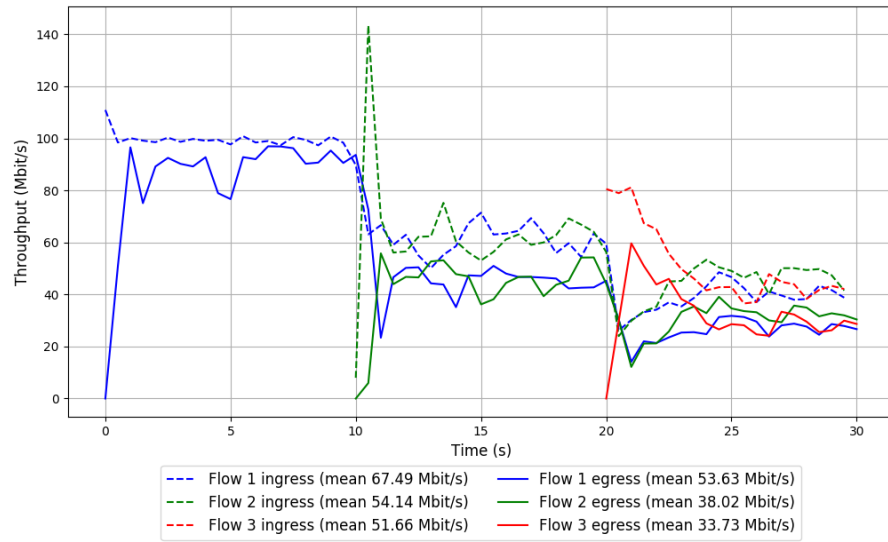


Run 3: Statistics of FillP

Start at: 2018-10-09 21:38:40  
End at: 2018-10-09 21:39:10  
Local clock offset: 1.025 ms  
Remote clock offset: -5.259 ms

# Below is generated by plot.py at 2018-10-09 22:42:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.88 Mbit/s  
95th percentile per-packet one-way delay: 21.507 ms  
Loss rate: 25.52%  
-- Flow 1:  
Average throughput: 53.63 Mbit/s  
95th percentile per-packet one-way delay: 20.526 ms  
Loss rate: 20.53%  
-- Flow 2:  
Average throughput: 38.02 Mbit/s  
95th percentile per-packet one-way delay: 22.997 ms  
Loss rate: 30.47%  
-- Flow 3:  
Average throughput: 33.73 Mbit/s  
95th percentile per-packet one-way delay: 24.375 ms  
Loss rate: 34.72%

### Run 3: Report of FillP — Data Link

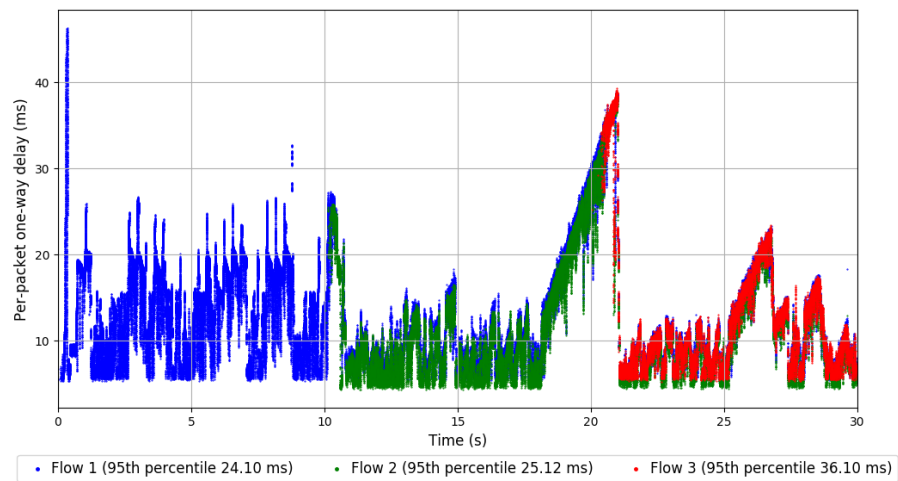
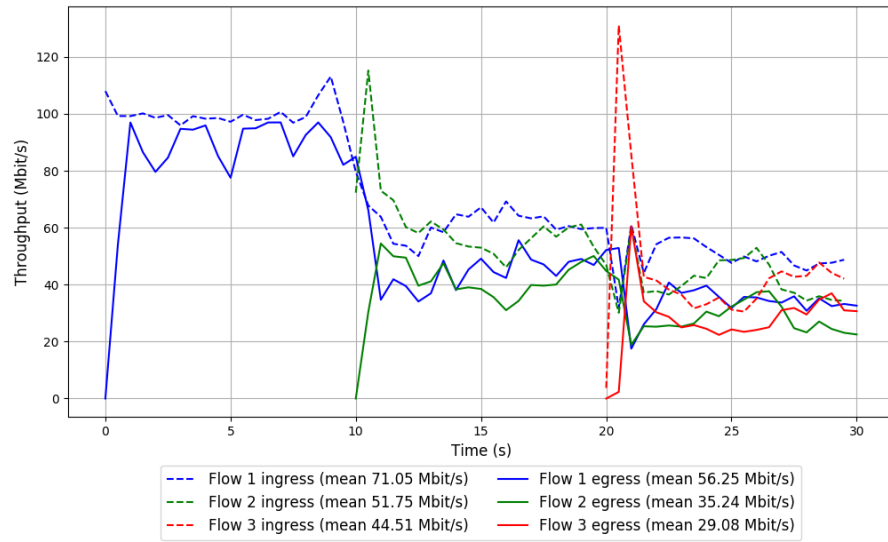


Run 4: Statistics of FillP

Start at: 2018-10-09 21:59:51  
End at: 2018-10-09 22:00:21  
Local clock offset: 0.643 ms  
Remote clock offset: -5.068 ms

# Below is generated by plot.py at 2018-10-09 22:42:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.31 Mbit/s  
95th percentile per-packet one-way delay: 25.154 ms  
Loss rate: 25.72%  
-- Flow 1:  
Average throughput: 56.25 Mbit/s  
95th percentile per-packet one-way delay: 24.102 ms  
Loss rate: 20.83%  
-- Flow 2:  
Average throughput: 35.24 Mbit/s  
95th percentile per-packet one-way delay: 25.124 ms  
Loss rate: 31.93%  
-- Flow 3:  
Average throughput: 29.08 Mbit/s  
95th percentile per-packet one-way delay: 36.099 ms  
Loss rate: 34.76%

# Run 4: Report of FillP — Data Link

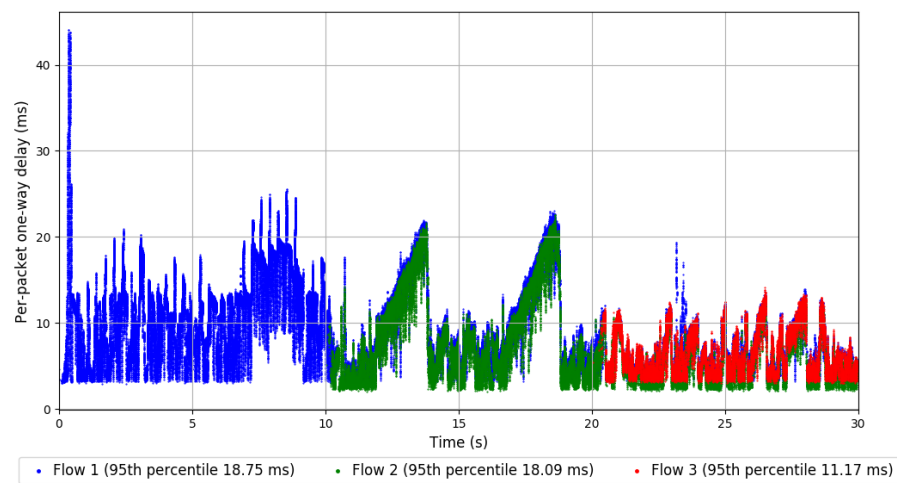
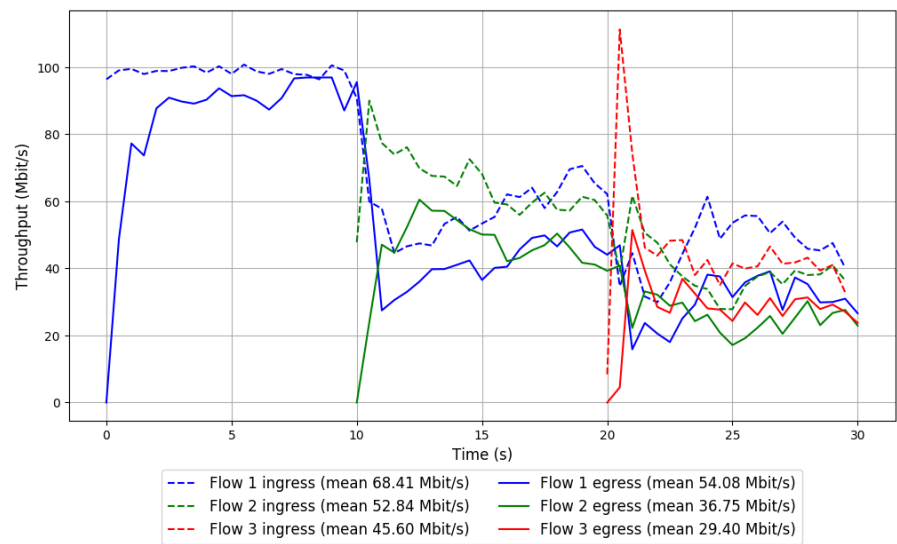


Run 5: Statistics of FillP

Start at: 2018-10-09 22:20:59  
End at: 2018-10-09 22:21:29  
Local clock offset: 1.652 ms  
Remote clock offset: -5.736 ms

# Below is generated by plot.py at 2018-10-09 22:42:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.26 Mbit/s  
95th percentile per-packet one-way delay: 18.427 ms  
Loss rate: 25.63%  
-- Flow 1:  
Average throughput: 54.08 Mbit/s  
95th percentile per-packet one-way delay: 18.752 ms  
Loss rate: 20.95%  
-- Flow 2:  
Average throughput: 36.75 Mbit/s  
95th percentile per-packet one-way delay: 18.093 ms  
Loss rate: 30.47%  
-- Flow 3:  
Average throughput: 29.40 Mbit/s  
95th percentile per-packet one-way delay: 11.171 ms  
Loss rate: 35.53%

Run 5: Report of FillP — Data Link



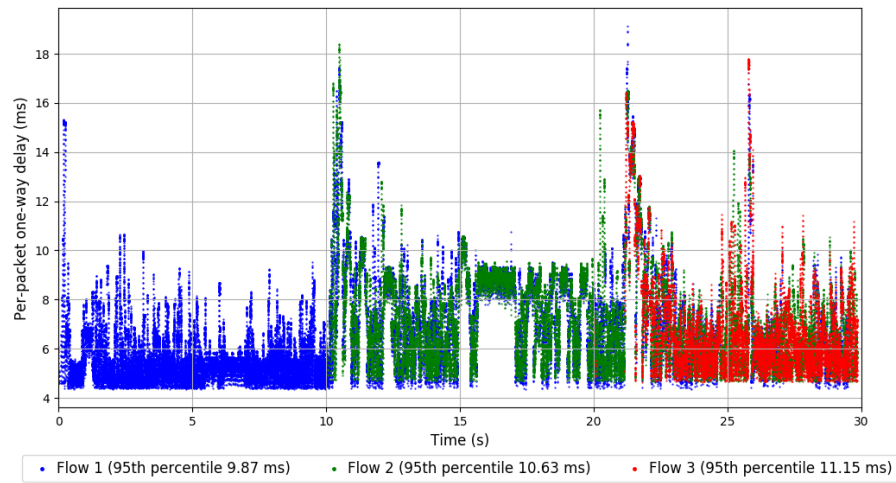
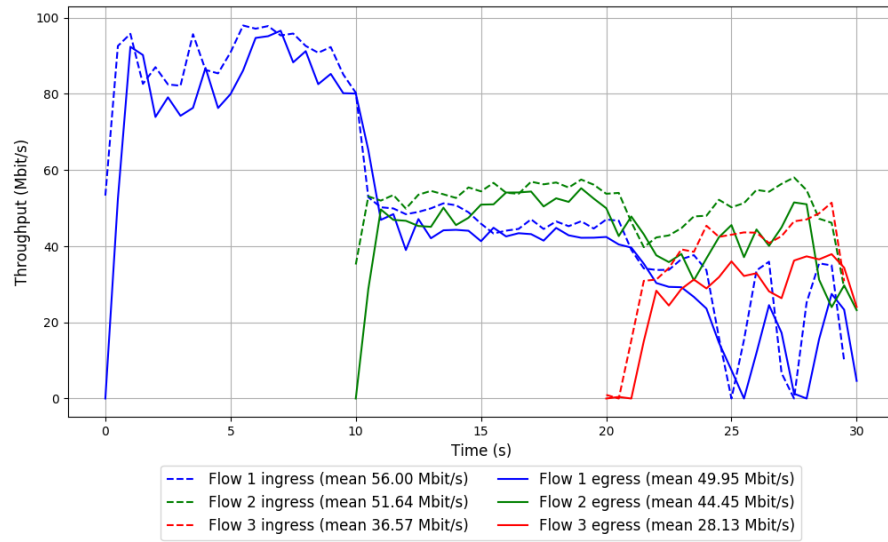


```
Run 1: Statistics of Indigo

Start at: 2018-10-09 21:04:40
End at: 2018-10-09 21:05:10
Local clock offset: 1.729 ms
Remote clock offset: -4.645 ms

# Below is generated by plot.py at 2018-10-09 22:42:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.33 Mbit/s
95th percentile per-packet one-way delay: 10.251 ms
Loss rate: 13.34%
-- Flow 1:
Average throughput: 49.95 Mbit/s
95th percentile per-packet one-way delay: 9.871 ms
Loss rate: 10.89%
-- Flow 2:
Average throughput: 44.45 Mbit/s
95th percentile per-packet one-way delay: 10.630 ms
Loss rate: 13.93%
-- Flow 3:
Average throughput: 28.13 Mbit/s
95th percentile per-packet one-way delay: 11.148 ms
Loss rate: 23.06%
```

## Run 1: Report of Indigo — Data Link

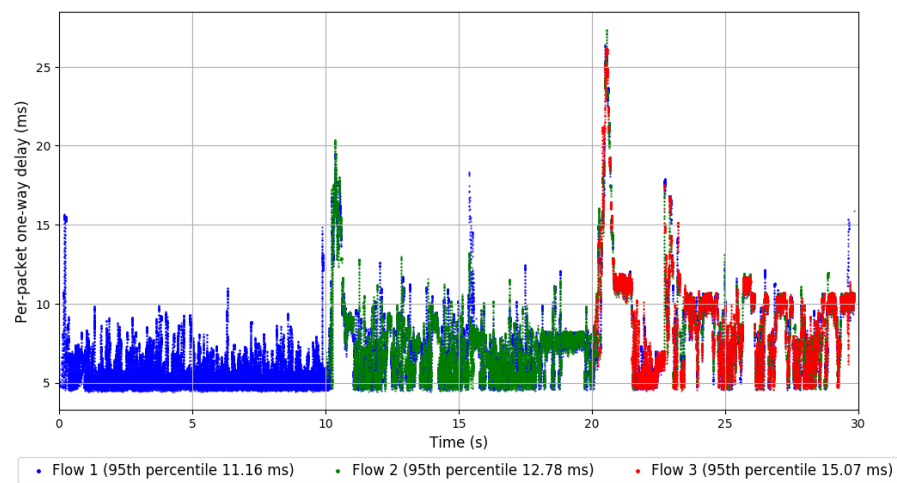
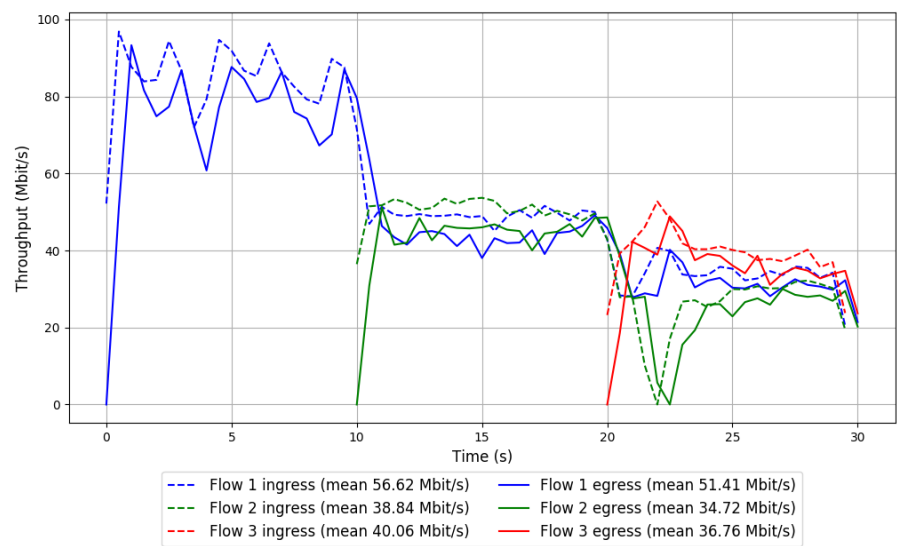


Run 2: Statistics of Indigo

Start at: 2018-10-09 21:25:50  
End at: 2018-10-09 21:26:20  
Local clock offset: 1.43 ms  
Remote clock offset: -5.217 ms

# Below is generated by plot.py at 2018-10-09 22:42:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.46 Mbit/s  
95th percentile per-packet one-way delay: 11.657 ms  
Loss rate: 9.42%  
-- Flow 1:  
Average throughput: 51.41 Mbit/s  
95th percentile per-packet one-way delay: 11.163 ms  
Loss rate: 9.18%  
-- Flow 2:  
Average throughput: 34.72 Mbit/s  
95th percentile per-packet one-way delay: 12.784 ms  
Loss rate: 10.57%  
-- Flow 3:  
Average throughput: 36.76 Mbit/s  
95th percentile per-packet one-way delay: 15.073 ms  
Loss rate: 8.19%

Run 2: Report of Indigo — Data Link

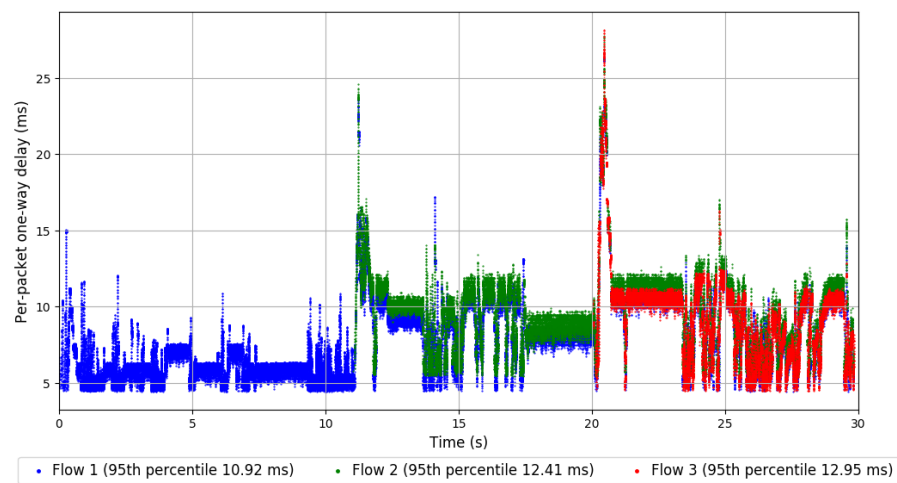
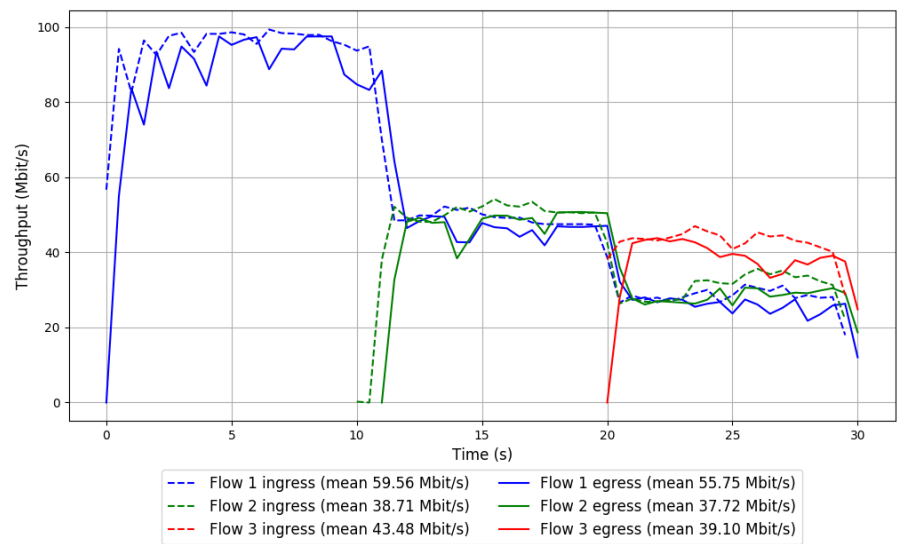


Run 3: Statistics of Indigo

Start at: 2018-10-09 21:46:52  
End at: 2018-10-09 21:47:22  
Local clock offset: 1.769 ms  
Remote clock offset: -4.565 ms

# Below is generated by plot.py at 2018-10-09 22:42:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.30 Mbit/s  
95th percentile per-packet one-way delay: 11.825 ms  
Loss rate: 7.23%  
-- Flow 1:  
Average throughput: 55.75 Mbit/s  
95th percentile per-packet one-way delay: 10.919 ms  
Loss rate: 6.40%  
-- Flow 2:  
Average throughput: 37.72 Mbit/s  
95th percentile per-packet one-way delay: 12.410 ms  
Loss rate: 7.53%  
-- Flow 3:  
Average throughput: 39.10 Mbit/s  
95th percentile per-packet one-way delay: 12.950 ms  
Loss rate: 10.13%

Run 3: Report of Indigo — Data Link

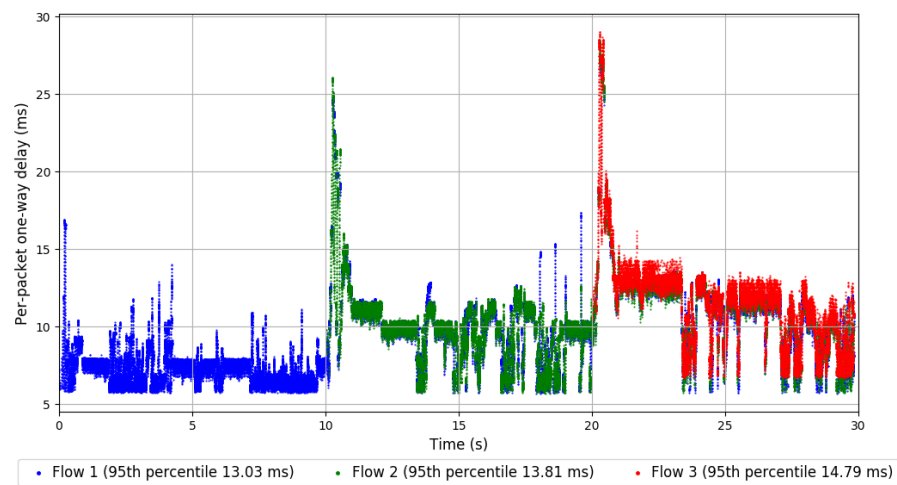
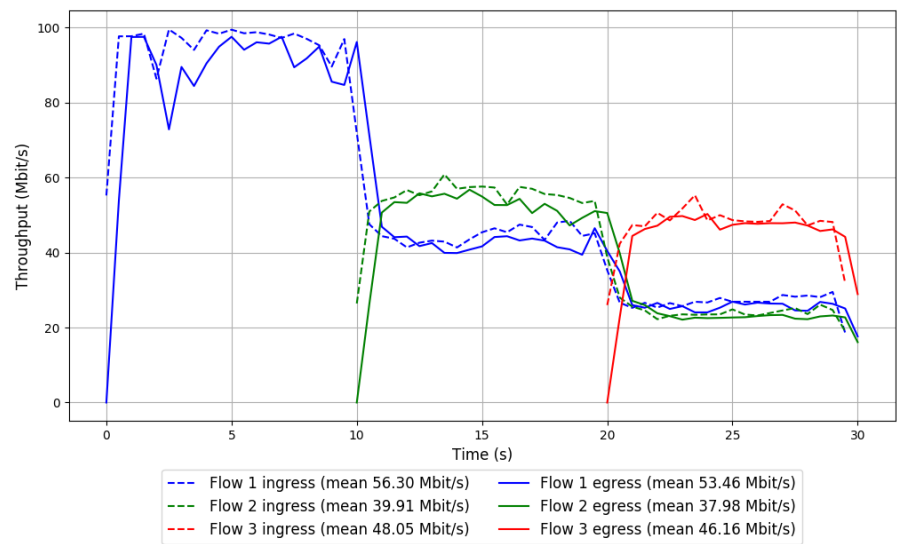


Run 4: Statistics of Indigo

Start at: 2018-10-09 22:08:06  
End at: 2018-10-09 22:08:36  
Local clock offset: -0.291 ms  
Remote clock offset: -4.524 ms

# Below is generated by plot.py at 2018-10-09 22:43:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.79 Mbit/s  
95th percentile per-packet one-way delay: 13.320 ms  
Loss rate: 4.80%  
-- Flow 1:  
Average throughput: 53.46 Mbit/s  
95th percentile per-packet one-way delay: 13.031 ms  
Loss rate: 5.04%  
-- Flow 2:  
Average throughput: 37.98 Mbit/s  
95th percentile per-packet one-way delay: 13.812 ms  
Loss rate: 4.82%  
-- Flow 3:  
Average throughput: 46.16 Mbit/s  
95th percentile per-packet one-way delay: 14.786 ms  
Loss rate: 3.94%

Run 4: Report of Indigo — Data Link





Run 5: Statistics of Indigo

Start at: 2018-10-09 22:29:18

End at: 2018-10-09 22:29:48

Local clock offset: -0.64 ms

Remote clock offset: -4.48 ms

# Below is generated by plot.py at 2018-10-09 22:43:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 12.710 ms

Loss rate: 10.75%

-- Flow 1:

Average throughput: 51.48 Mbit/s

95th percentile per-packet one-way delay: 11.842 ms

Loss rate: 9.69%

-- Flow 2:

Average throughput: 37.79 Mbit/s

95th percentile per-packet one-way delay: 13.661 ms

Loss rate: 9.98%

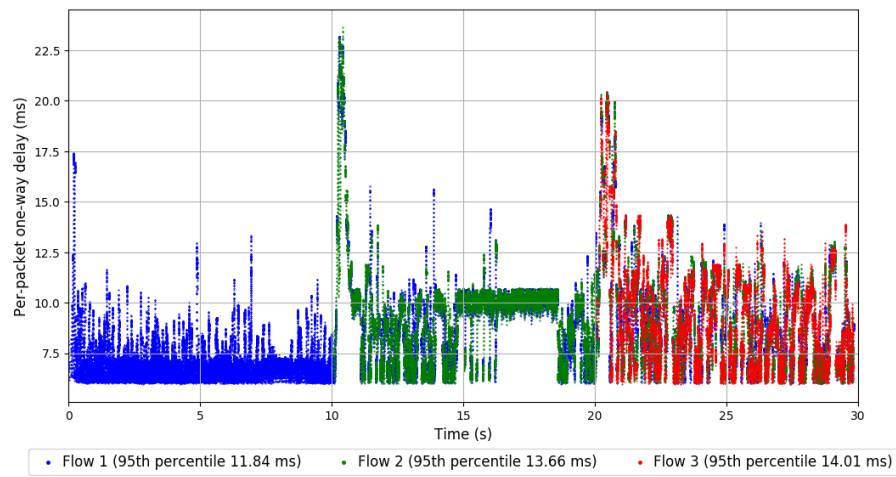
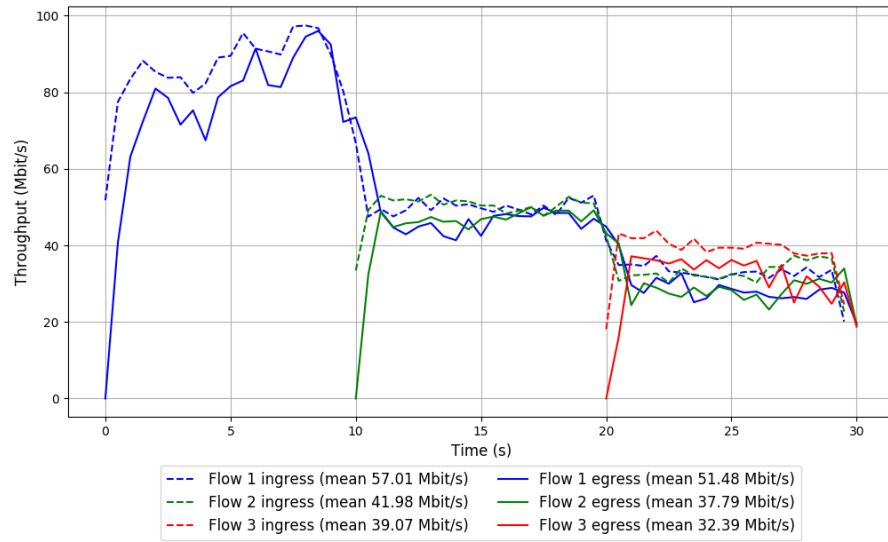
-- Flow 3:

Average throughput: 32.39 Mbit/s

95th percentile per-packet one-way delay: 14.012 ms

Loss rate: 17.11%

## Run 5: Report of Indigo — Data Link

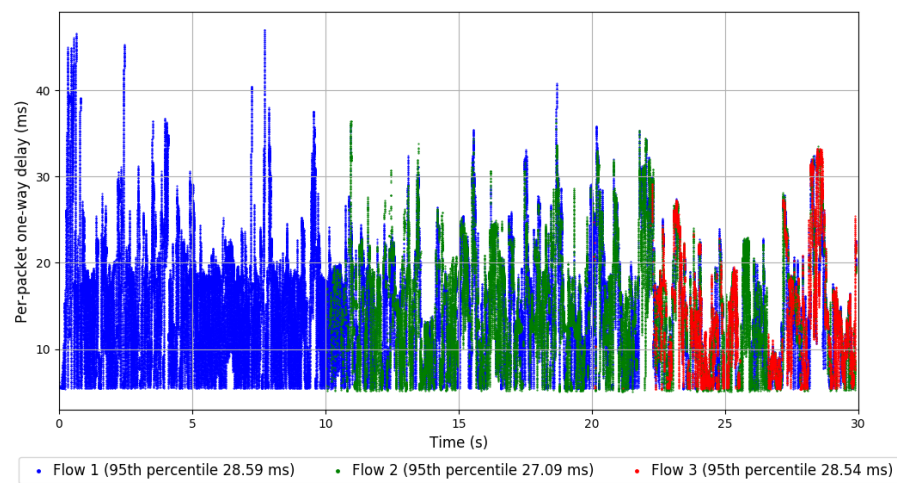
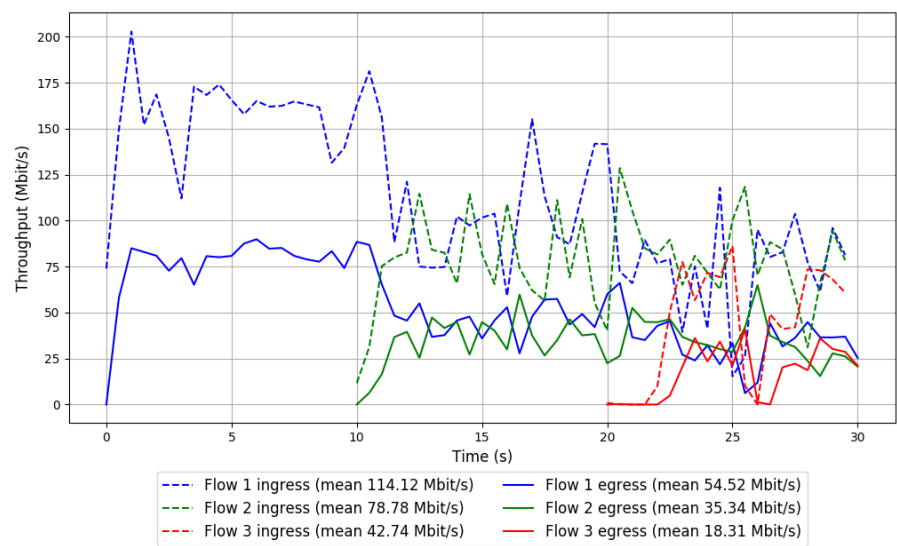


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-10-09 21:01:06  
End at: 2018-10-09 21:01:36  
Local clock offset: 1.013 ms  
Remote clock offset: -4.524 ms

# Below is generated by plot.py at 2018-10-09 22:44:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.03 Mbit/s  
95th percentile per-packet one-way delay: 28.158 ms  
Loss rate: 53.44%  
-- Flow 1:  
Average throughput: 54.52 Mbit/s  
95th percentile per-packet one-way delay: 28.587 ms  
Loss rate: 52.20%  
-- Flow 2:  
Average throughput: 35.34 Mbit/s  
95th percentile per-packet one-way delay: 27.095 ms  
Loss rate: 55.13%  
-- Flow 3:  
Average throughput: 18.31 Mbit/s  
95th percentile per-packet one-way delay: 28.536 ms  
Loss rate: 57.17%

Run 1: Report of Indigo-96d2da3 — Data Link



Run 2: Statistics of Indigo-96d2da3

Start at: 2018-10-09 21:22:22

End at: 2018-10-09 21:22:52

Local clock offset: 0.94 ms

Remote clock offset: -4.69 ms

# Below is generated by plot.py at 2018-10-09 22:44:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.16 Mbit/s

95th percentile per-packet one-way delay: 33.552 ms

Loss rate: 50.59%

-- Flow 1:

Average throughput: 57.92 Mbit/s

95th percentile per-packet one-way delay: 35.149 ms

Loss rate: 47.11%

-- Flow 2:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 31.465 ms

Loss rate: 54.43%

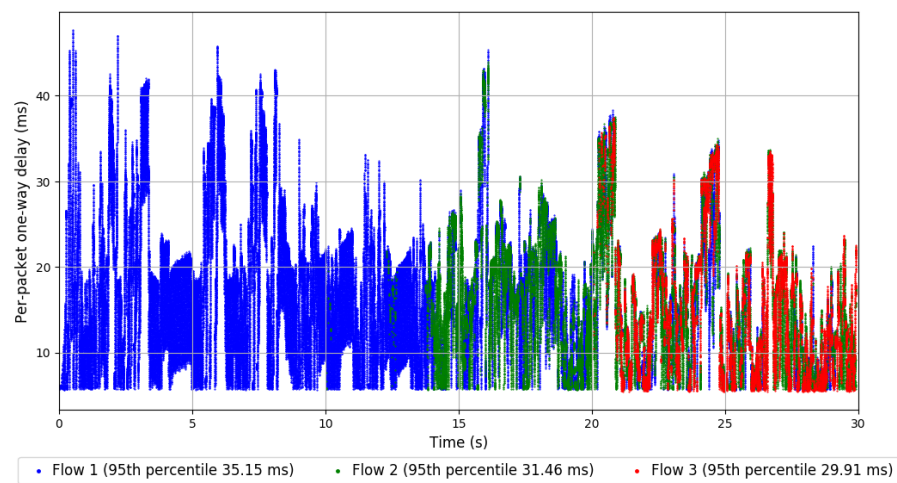
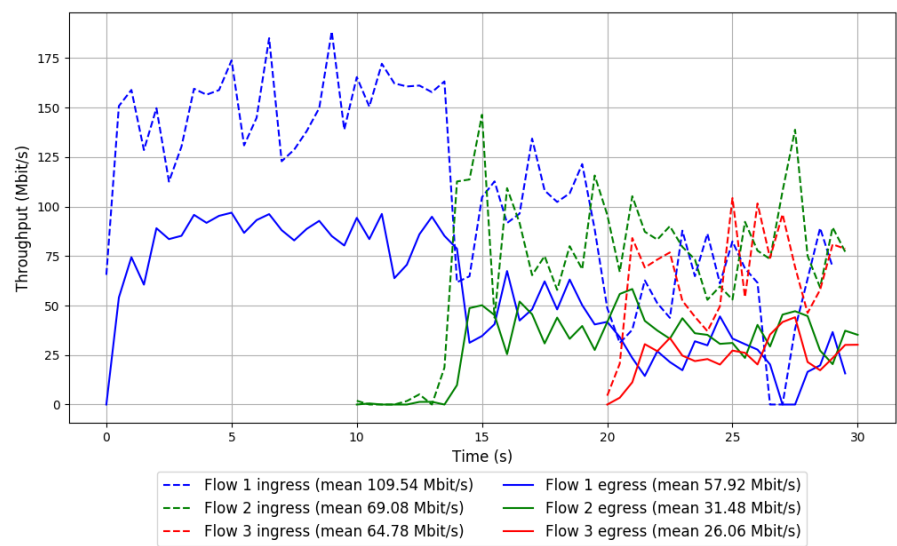
-- Flow 3:

Average throughput: 26.06 Mbit/s

95th percentile per-packet one-way delay: 29.906 ms

Loss rate: 59.79%

Run 2: Report of Indigo-96d2da3 — Data Link

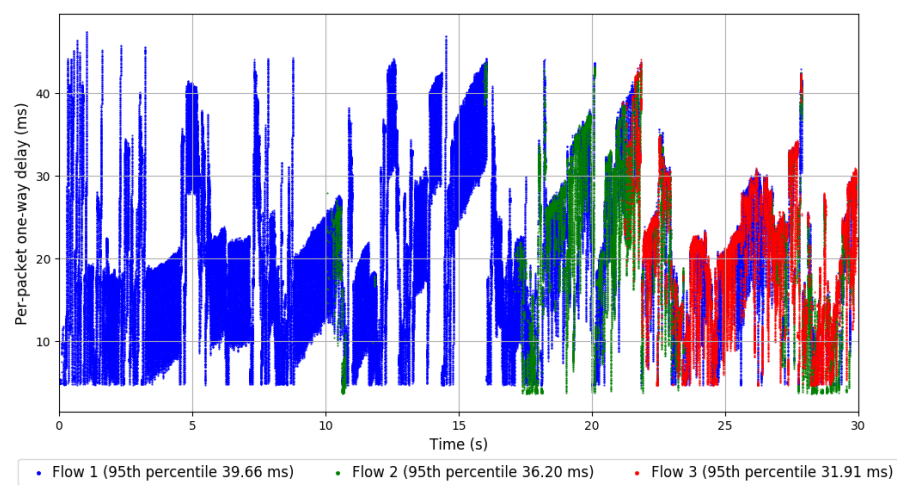
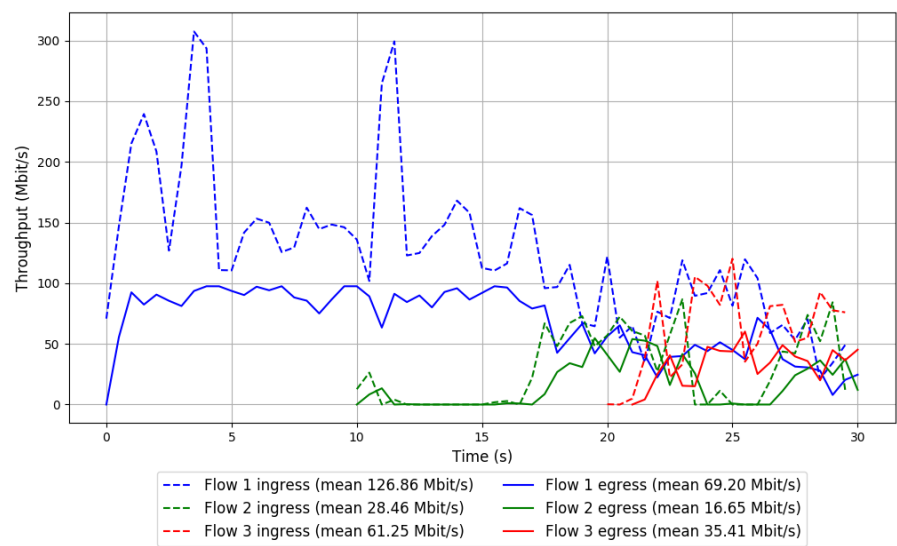


Run 3: Statistics of Indigo-96d2da3

Start at: 2018-10-09 21:43:24  
End at: 2018-10-09 21:43:54  
Local clock offset: 2.381 ms  
Remote clock offset: -4.708 ms

# Below is generated by plot.py at 2018-10-09 22:44:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.65 Mbit/s  
95th percentile per-packet one-way delay: 38.964 ms  
Loss rate: 45.30%  
-- Flow 1:  
Average throughput: 69.20 Mbit/s  
95th percentile per-packet one-way delay: 39.664 ms  
Loss rate: 45.42%  
-- Flow 2:  
Average throughput: 16.65 Mbit/s  
95th percentile per-packet one-way delay: 36.204 ms  
Loss rate: 41.52%  
-- Flow 3:  
Average throughput: 35.41 Mbit/s  
95th percentile per-packet one-way delay: 31.905 ms  
Loss rate: 48.12%

Run 3: Report of Indigo-96d2da3 — Data Link



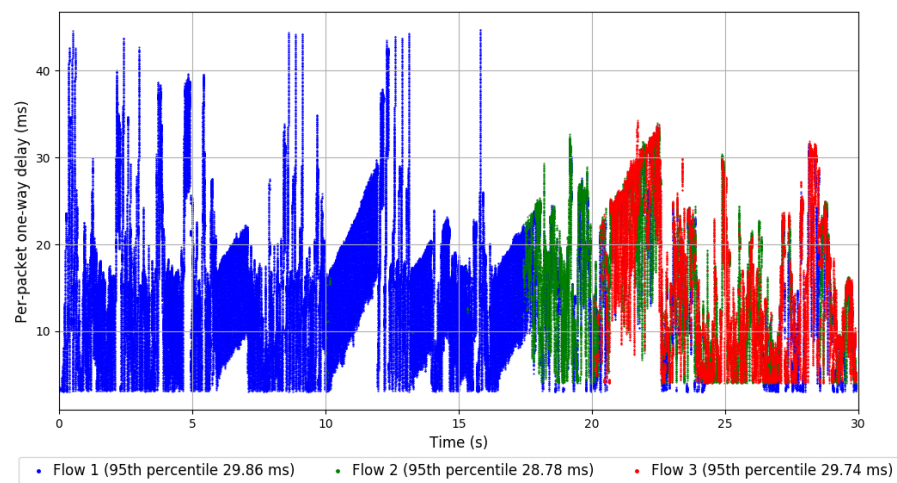
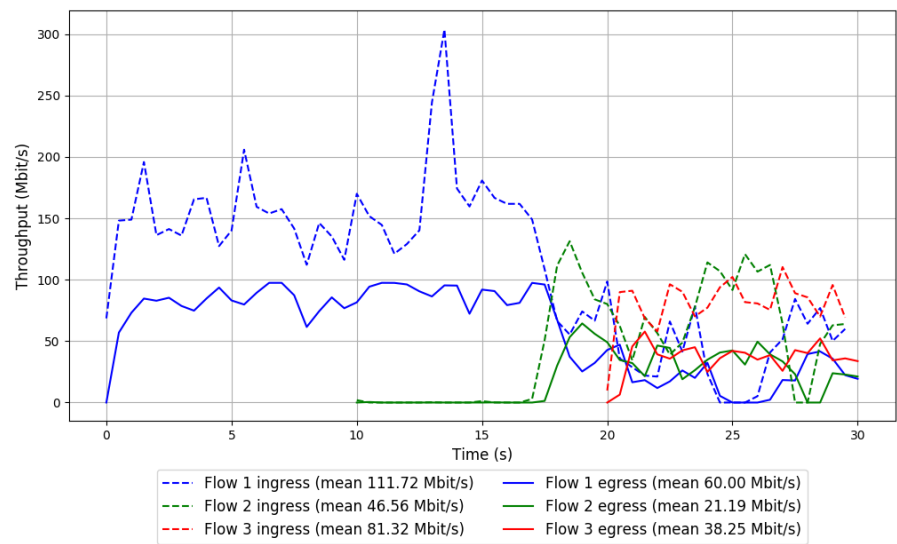


Run 4: Statistics of Indigo-96d2da3

Start at: 2018-10-09 22:04:36  
End at: 2018-10-09 22:05:06  
Local clock offset: 1.951 ms  
Remote clock offset: -5.093 ms

# Below is generated by plot.py at 2018-10-09 22:44:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.69 Mbit/s  
95th percentile per-packet one-way delay: 29.571 ms  
Loss rate: 48.85%  
-- Flow 1:  
Average throughput: 60.00 Mbit/s  
95th percentile per-packet one-way delay: 29.864 ms  
Loss rate: 46.29%  
-- Flow 2:  
Average throughput: 21.19 Mbit/s  
95th percentile per-packet one-way delay: 28.784 ms  
Loss rate: 54.51%  
-- Flow 3:  
Average throughput: 38.25 Mbit/s  
95th percentile per-packet one-way delay: 29.741 ms  
Loss rate: 52.99%

Run 4: Report of Indigo-96d2da3 — Data Link

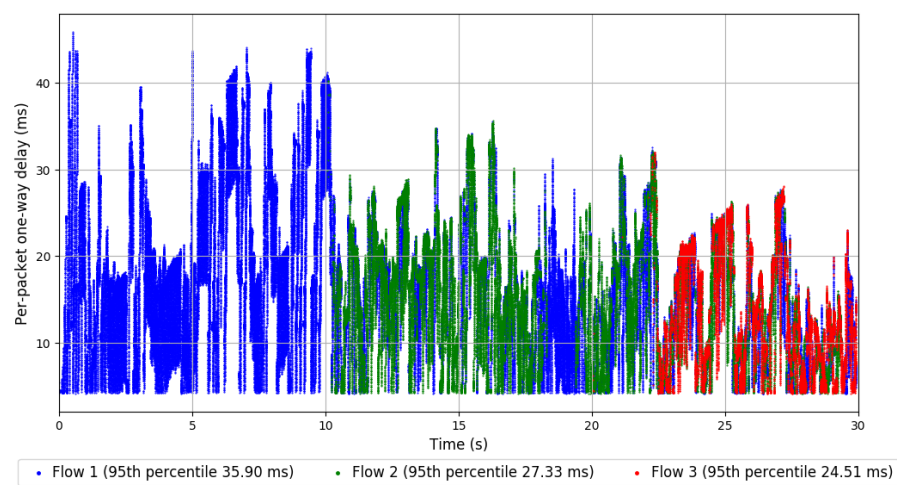
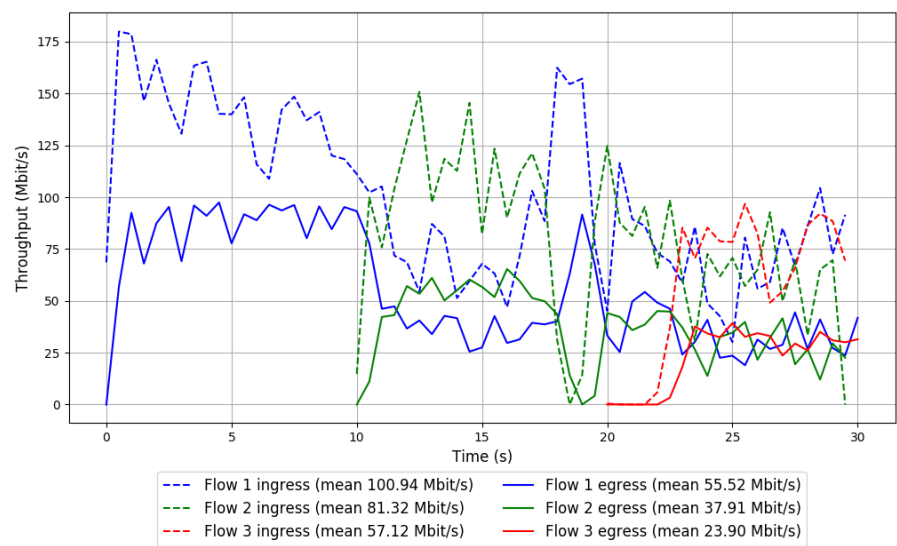


Run 5: Statistics of Indigo-96d2da3

Start at: 2018-10-09 22:25:47  
End at: 2018-10-09 22:26:17  
Local clock offset: 0.29 ms  
Remote clock offset: -5.247 ms

# Below is generated by plot.py at 2018-10-09 22:44:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.00 Mbit/s  
95th percentile per-packet one-way delay: 32.992 ms  
Loss rate: 49.03%  
-- Flow 1:  
Average throughput: 55.52 Mbit/s  
95th percentile per-packet one-way delay: 35.900 ms  
Loss rate: 44.98%  
-- Flow 2:  
Average throughput: 37.91 Mbit/s  
95th percentile per-packet one-way delay: 27.328 ms  
Loss rate: 53.52%  
-- Flow 3:  
Average throughput: 23.90 Mbit/s  
95th percentile per-packet one-way delay: 24.509 ms  
Loss rate: 58.13%

Run 5: Report of Indigo-96d2da3 — Data Link

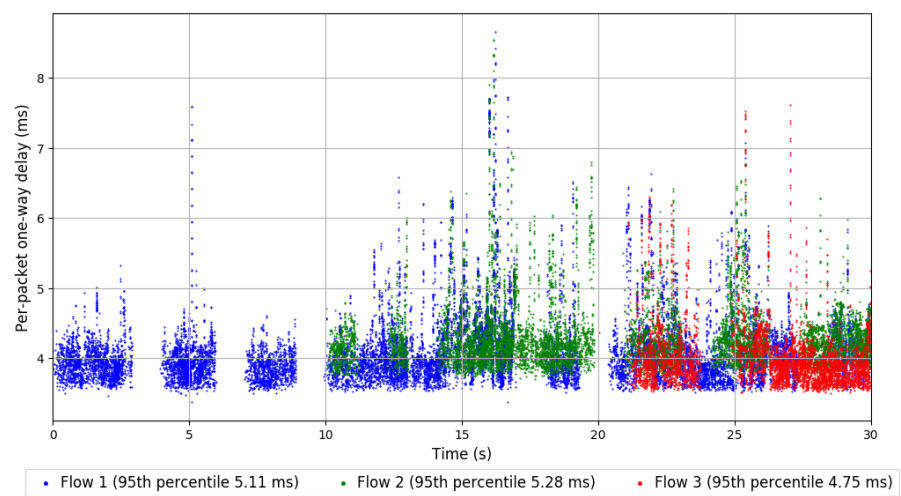
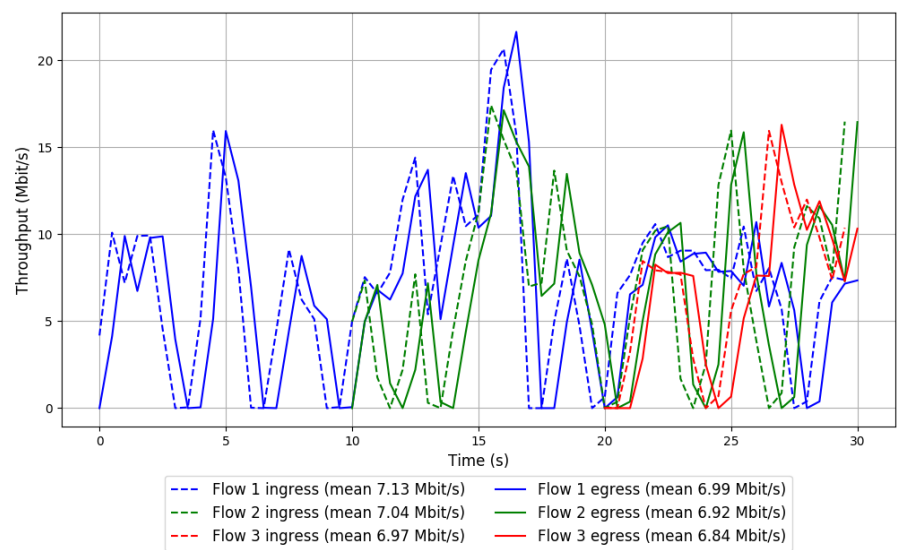


```
Run 1: Statistics of LEDBAT

Start at: 2018-10-09 20:55:14
End at: 2018-10-09 20:55:44
Local clock offset: 0.942 ms
Remote clock offset: -6.098 ms

# Below is generated by plot.py at 2018-10-09 22:44:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.87 Mbit/s
95th percentile per-packet one-way delay: 5.156 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 6.99 Mbit/s
95th percentile per-packet one-way delay: 5.107 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 5.284 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 4.754 ms
Loss rate: 1.84%
```

Run 1: Report of LEDBAT — Data Link

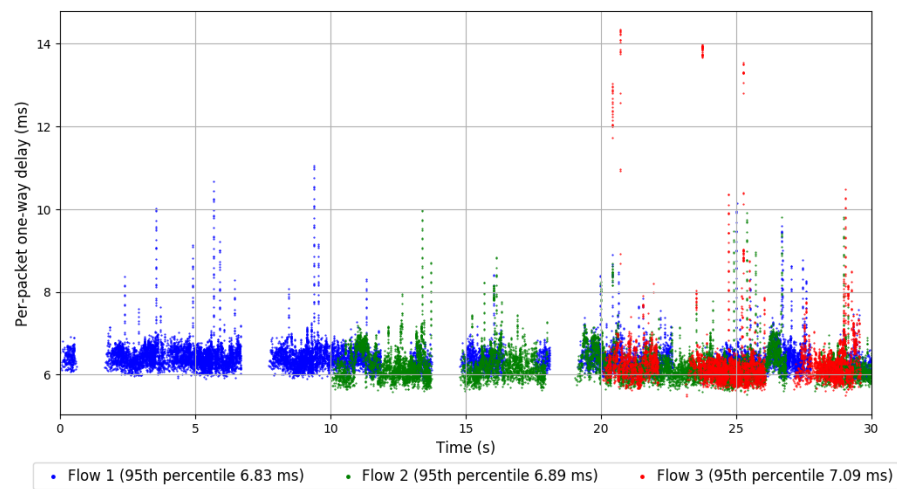
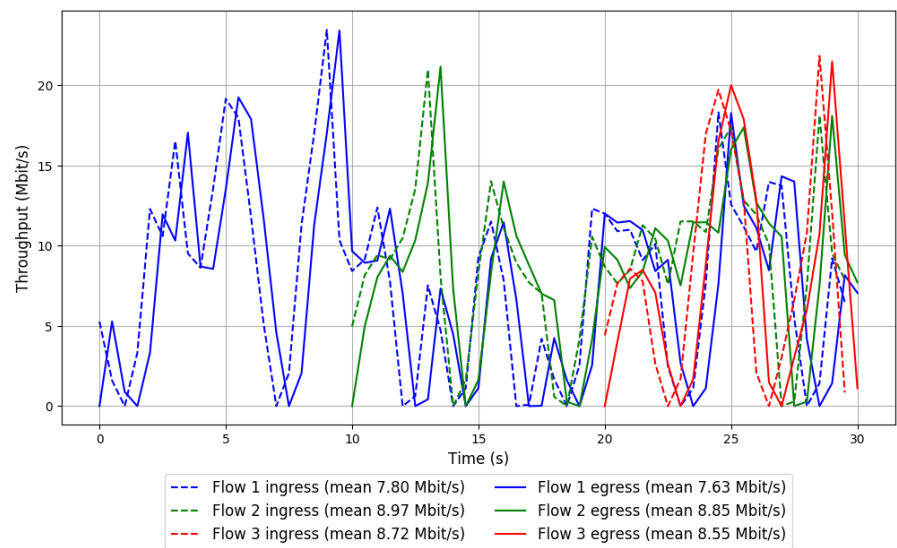


Run 2: Statistics of LEDBAT

Start at: 2018-10-09 21:16:26  
End at: 2018-10-09 21:16:56  
Local clock offset: 1.647 ms  
Remote clock offset: -3.681 ms

# Below is generated by plot.py at 2018-10-09 22:44:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.24 Mbit/s  
95th percentile per-packet one-way delay: 6.869 ms  
Loss rate: 1.83%  
-- Flow 1:  
Average throughput: 7.63 Mbit/s  
95th percentile per-packet one-way delay: 6.826 ms  
Loss rate: 2.10%  
-- Flow 2:  
Average throughput: 8.85 Mbit/s  
95th percentile per-packet one-way delay: 6.886 ms  
Loss rate: 1.42%  
-- Flow 3:  
Average throughput: 8.55 Mbit/s  
95th percentile per-packet one-way delay: 7.090 ms  
Loss rate: 1.93%

Run 2: Report of LEDBAT — Data Link



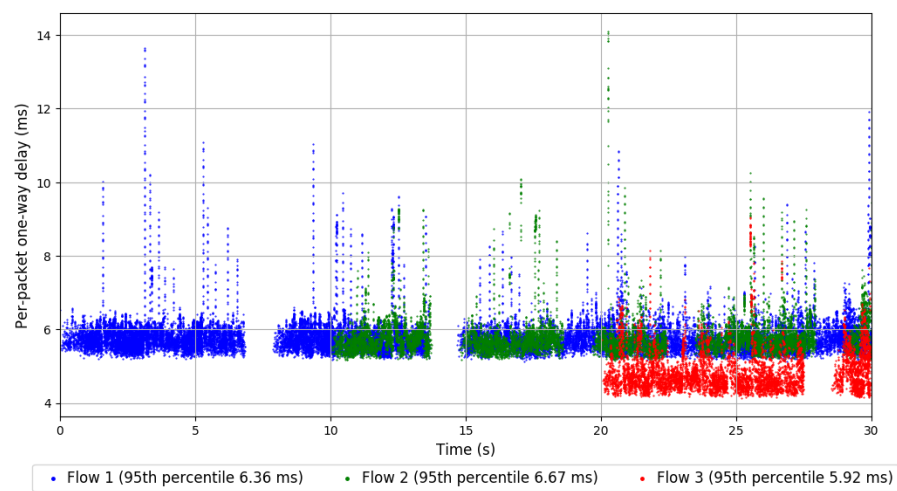
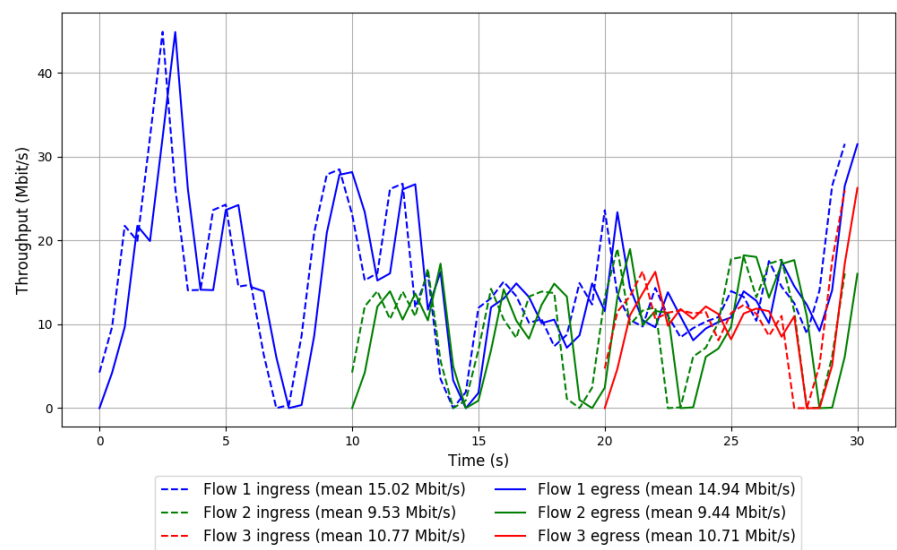


Run 3: Statistics of LEDBAT

Start at: 2018-10-09 21:37:30  
End at: 2018-10-09 21:38:00  
Local clock offset: 1.455 ms  
Remote clock offset: -4.914 ms

# Below is generated by plot.py at 2018-10-09 22:44:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 24.76 Mbit/s  
95th percentile per-packet one-way delay: 6.391 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 14.94 Mbit/s  
95th percentile per-packet one-way delay: 6.356 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 9.44 Mbit/s  
95th percentile per-packet one-way delay: 6.668 ms  
Loss rate: 0.98%  
-- Flow 3:  
Average throughput: 10.71 Mbit/s  
95th percentile per-packet one-way delay: 5.920 ms  
Loss rate: 0.58%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-10-09 21:58:42

End at: 2018-10-09 21:59:12

Local clock offset: 0.029 ms

Remote clock offset: -4.73 ms

# Below is generated by plot.py at 2018-10-09 22:44:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 36.06 Mbit/s

95th percentile per-packet one-way delay: 8.086 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 19.54 Mbit/s

95th percentile per-packet one-way delay: 7.911 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 17.86 Mbit/s

95th percentile per-packet one-way delay: 8.583 ms

Loss rate: 0.27%

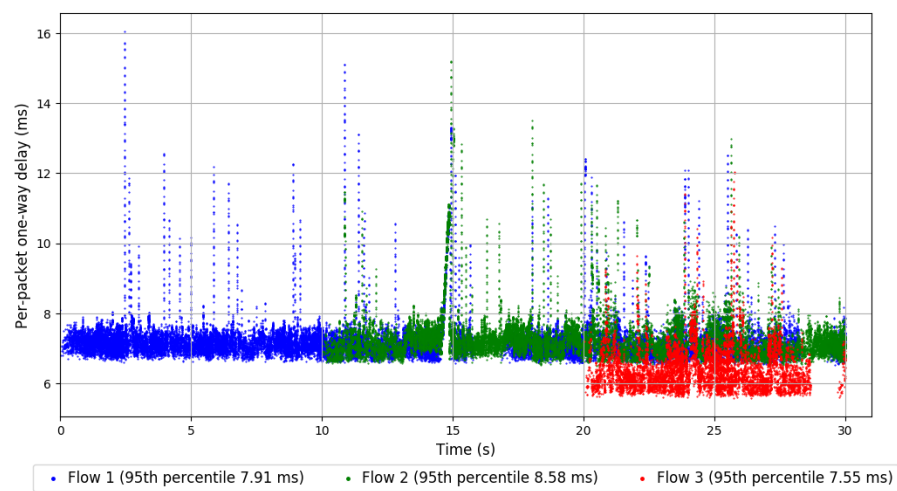
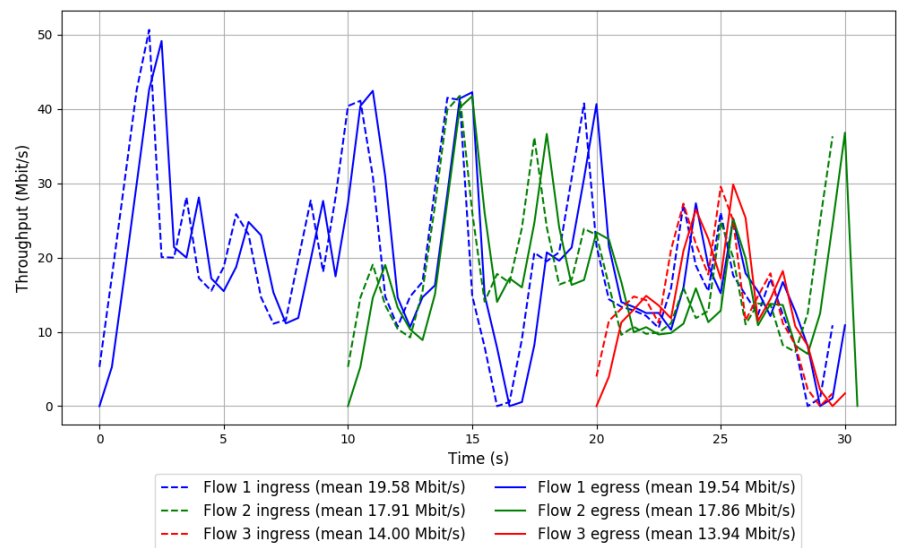
-- Flow 3:

Average throughput: 13.94 Mbit/s

95th percentile per-packet one-way delay: 7.551 ms

Loss rate: 0.45%

Run 4: Report of LEDBAT — Data Link

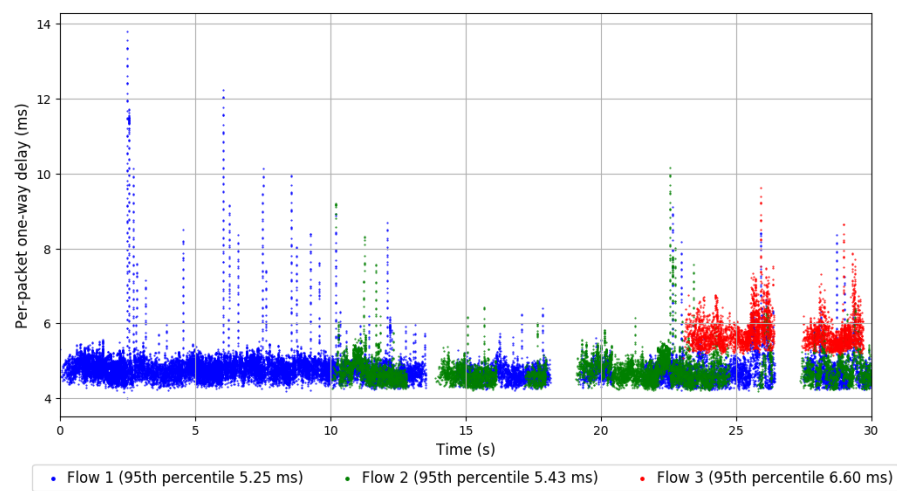
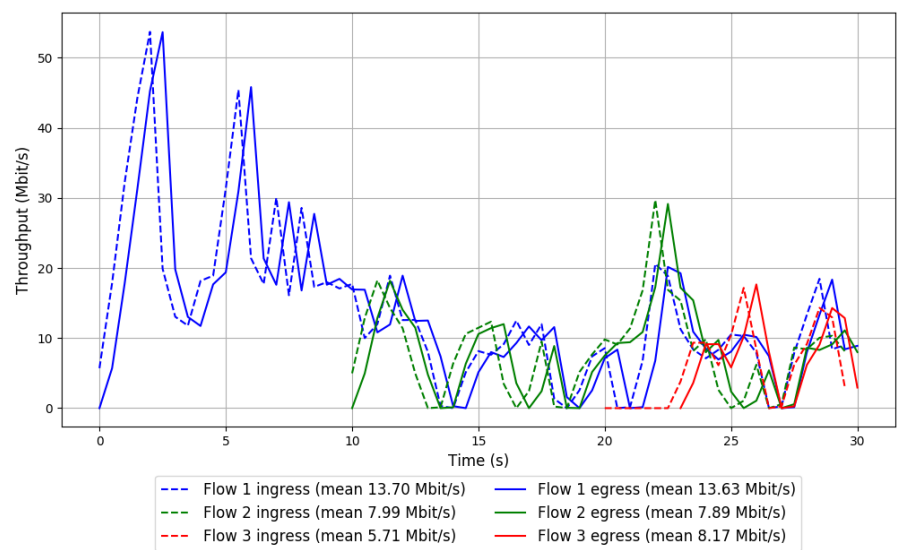


Run 5: Statistics of LEDBAT

Start at: 2018-10-09 22:19:44  
End at: 2018-10-09 22:20:14  
Local clock offset: 0.586 ms  
Remote clock offset: -4.899 ms

# Below is generated by plot.py at 2018-10-09 22:44:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.70 Mbit/s  
95th percentile per-packet one-way delay: 5.822 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 13.63 Mbit/s  
95th percentile per-packet one-way delay: 5.251 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 7.89 Mbit/s  
95th percentile per-packet one-way delay: 5.435 ms  
Loss rate: 1.26%  
-- Flow 3:  
Average throughput: 8.17 Mbit/s  
95th percentile per-packet one-way delay: 6.597 ms  
Loss rate: 1.30%

Run 5: Report of LEDBAT — Data Link

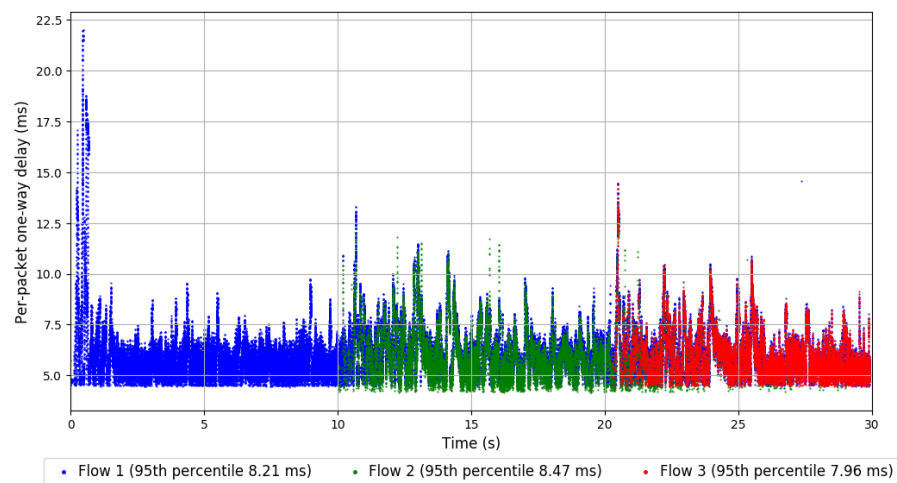
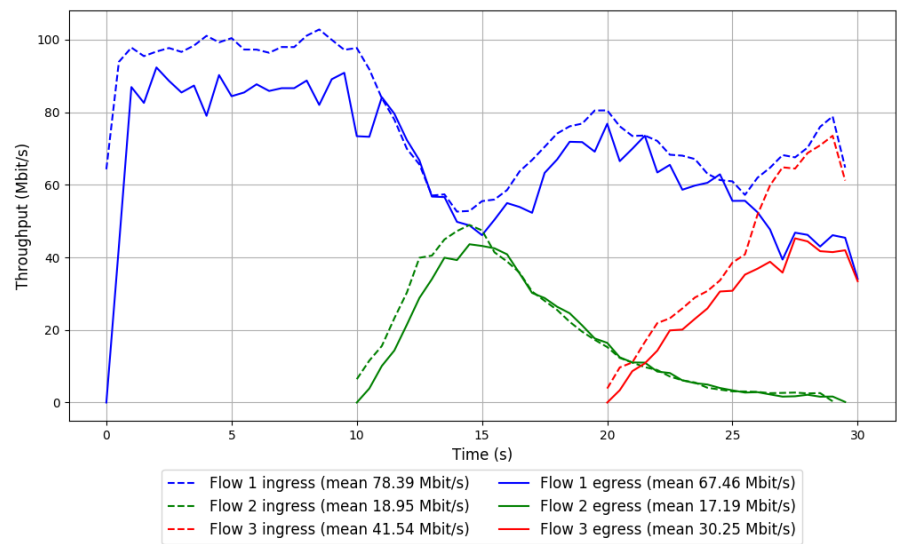


```
Run 1: Statistics of Indigo-Muses

Start at: 2018-10-09 21:14:05
End at: 2018-10-09 21:14:35
Local clock offset: 2.65 ms
Remote clock offset: -4.055 ms

# Below is generated by plot.py at 2018-10-09 22:44:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.13 Mbit/s
95th percentile per-packet one-way delay: 8.221 ms
Loss rate: 15.11%
-- Flow 1:
Average throughput: 67.46 Mbit/s
95th percentile per-packet one-way delay: 8.213 ms
Loss rate: 13.95%
-- Flow 2:
Average throughput: 17.19 Mbit/s
95th percentile per-packet one-way delay: 8.474 ms
Loss rate: 9.29%
-- Flow 3:
Average throughput: 30.25 Mbit/s
95th percentile per-packet one-way delay: 7.964 ms
Loss rate: 27.21%
```

Run 1: Report of Indigo-Muses — Data Link



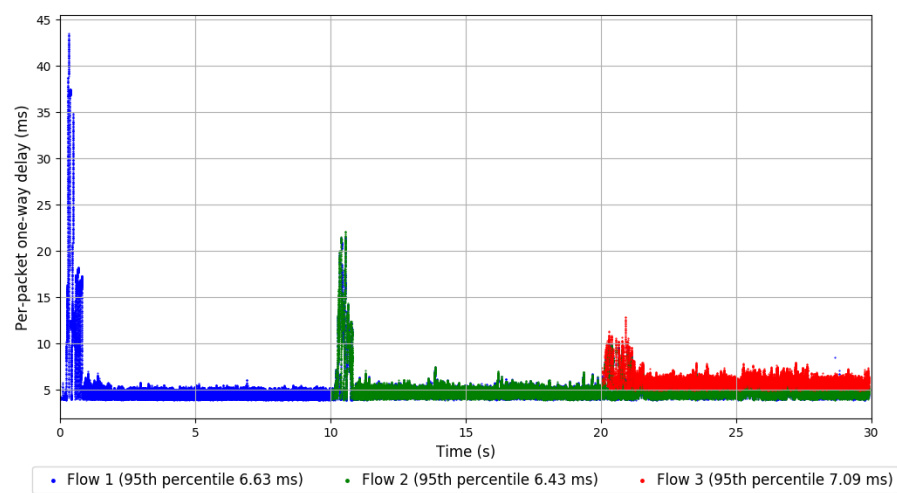
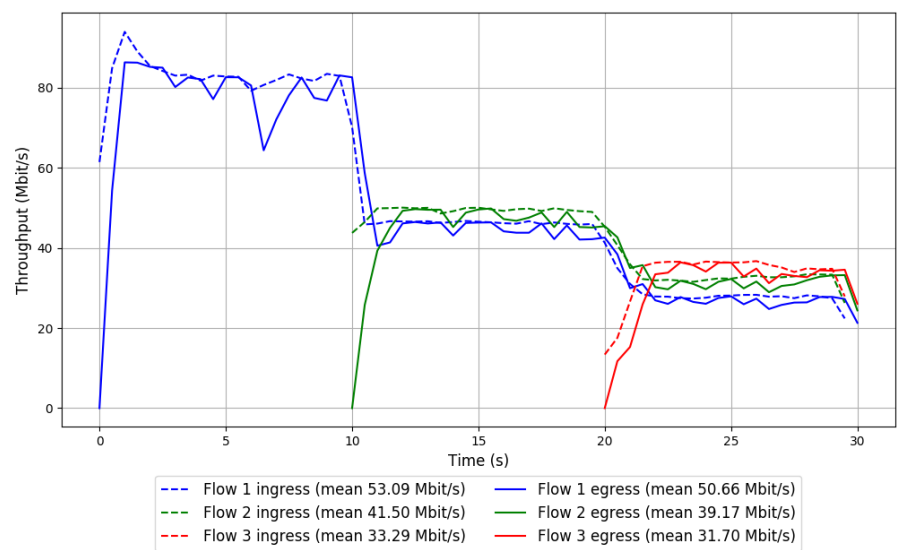


Run 2: Statistics of Indigo-Muses

Start at: 2018-10-09 21:35:10  
End at: 2018-10-09 21:35:40  
Local clock offset: 1.515 ms  
Remote clock offset: -5.038 ms

# Below is generated by plot.py at 2018-10-09 22:45:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.18 Mbit/s  
95th percentile per-packet one-way delay: 6.835 ms  
Loss rate: 4.92%  
-- Flow 1:  
Average throughput: 50.66 Mbit/s  
95th percentile per-packet one-way delay: 6.632 ms  
Loss rate: 4.59%  
-- Flow 2:  
Average throughput: 39.17 Mbit/s  
95th percentile per-packet one-way delay: 6.433 ms  
Loss rate: 5.61%  
-- Flow 3:  
Average throughput: 31.70 Mbit/s  
95th percentile per-packet one-way delay: 7.090 ms  
Loss rate: 4.77%

Run 2: Report of Indigo-Muses — Data Link

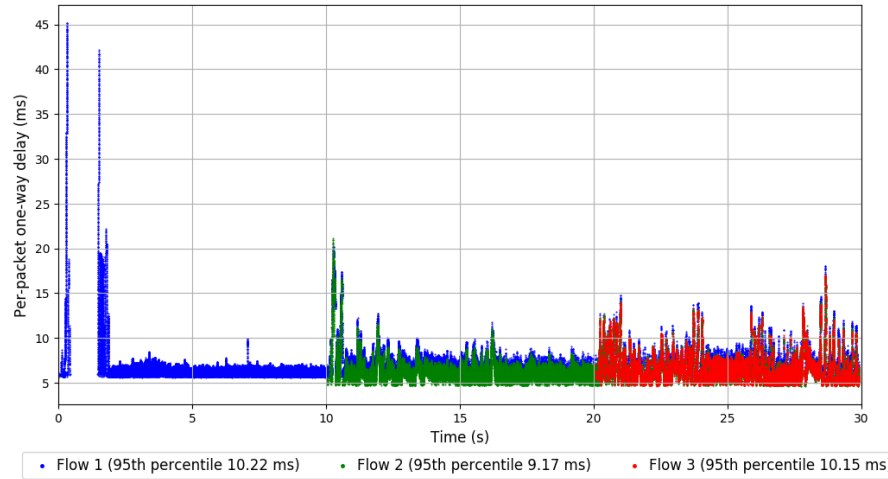
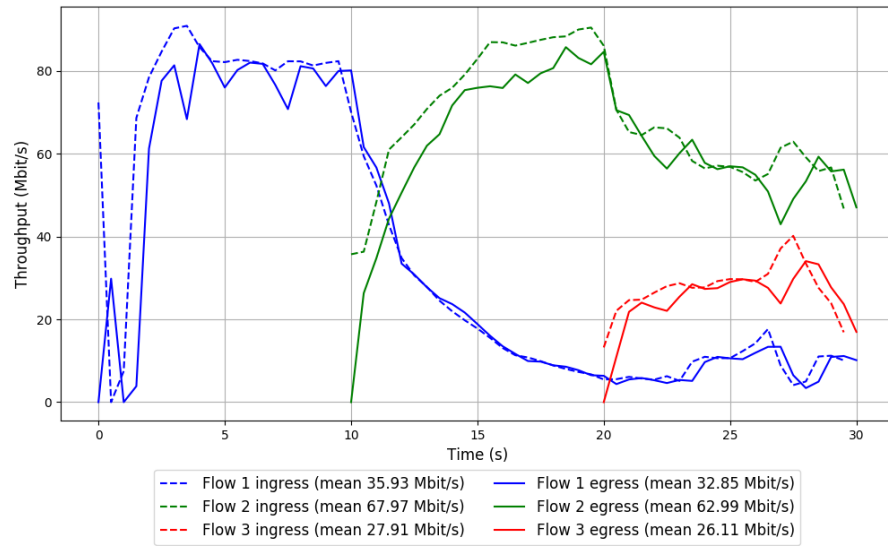


Run 3: Statistics of Indigo-Muses

Start at: 2018-10-09 21:56:22  
End at: 2018-10-09 21:56:52  
Local clock offset: 0.68 ms  
Remote clock offset: -5.292 ms

# Below is generated by plot.py at 2018-10-09 22:45:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.36 Mbit/s  
95th percentile per-packet one-way delay: 9.605 ms  
Loss rate: 7.72%  
-- Flow 1:  
Average throughput: 32.85 Mbit/s  
95th percentile per-packet one-way delay: 10.221 ms  
Loss rate: 8.55%  
-- Flow 2:  
Average throughput: 62.99 Mbit/s  
95th percentile per-packet one-way delay: 9.171 ms  
Loss rate: 7.33%  
-- Flow 3:  
Average throughput: 26.11 Mbit/s  
95th percentile per-packet one-way delay: 10.148 ms  
Loss rate: 6.44%

### Run 3: Report of Indigo-Muses — Data Link

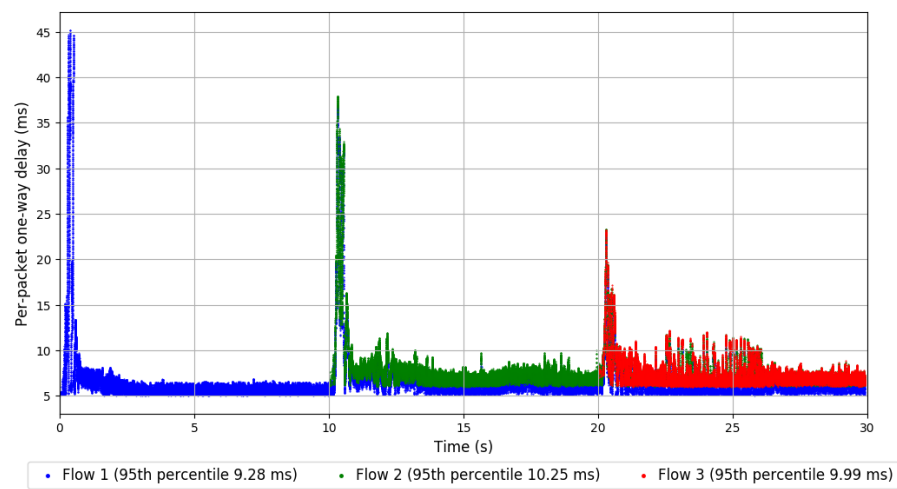
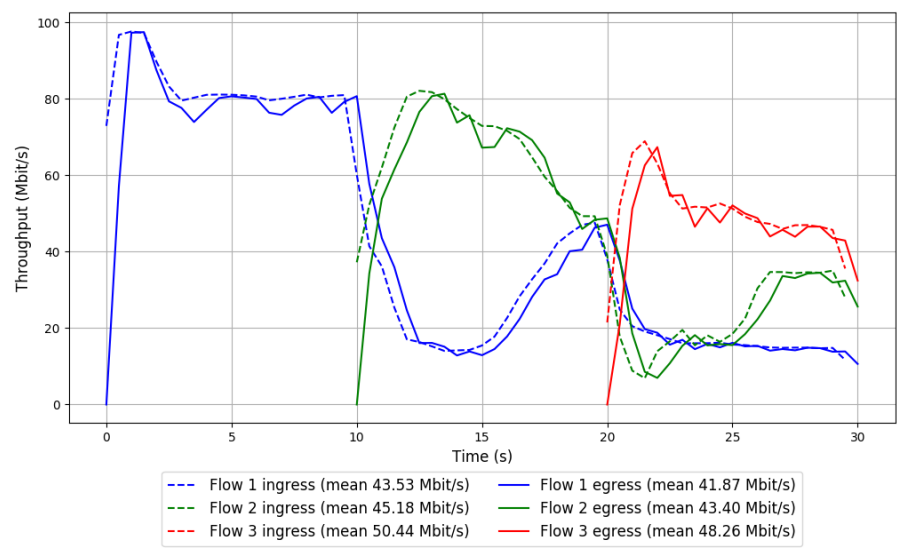


Run 4: Statistics of Indigo-Muses

Start at: 2018-10-09 22:17:25  
End at: 2018-10-09 22:17:55  
Local clock offset: 0.187 ms  
Remote clock offset: -4.465 ms

# Below is generated by plot.py at 2018-10-09 22:45:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.66 Mbit/s  
95th percentile per-packet one-way delay: 9.931 ms  
Loss rate: 3.95%  
-- Flow 1:  
Average throughput: 41.87 Mbit/s  
95th percentile per-packet one-way delay: 9.277 ms  
Loss rate: 3.82%  
-- Flow 2:  
Average throughput: 43.40 Mbit/s  
95th percentile per-packet one-way delay: 10.249 ms  
Loss rate: 3.93%  
-- Flow 3:  
Average throughput: 48.26 Mbit/s  
95th percentile per-packet one-way delay: 9.990 ms  
Loss rate: 4.34%

Run 4: Report of Indigo-Muses — Data Link



Run 5: Statistics of Indigo-Muses

Start at: 2018-10-09 22:38:39

End at: 2018-10-09 22:39:09

Local clock offset: 1.726 ms

Remote clock offset: -5.11 ms

# Below is generated by plot.py at 2018-10-09 22:45:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.43 Mbit/s

95th percentile per-packet one-way delay: 6.575 ms

Loss rate: 9.54%

-- Flow 1:

Average throughput: 43.08 Mbit/s

95th percentile per-packet one-way delay: 6.668 ms

Loss rate: 10.12%

-- Flow 2:

Average throughput: 30.68 Mbit/s

95th percentile per-packet one-way delay: 6.248 ms

Loss rate: 6.92%

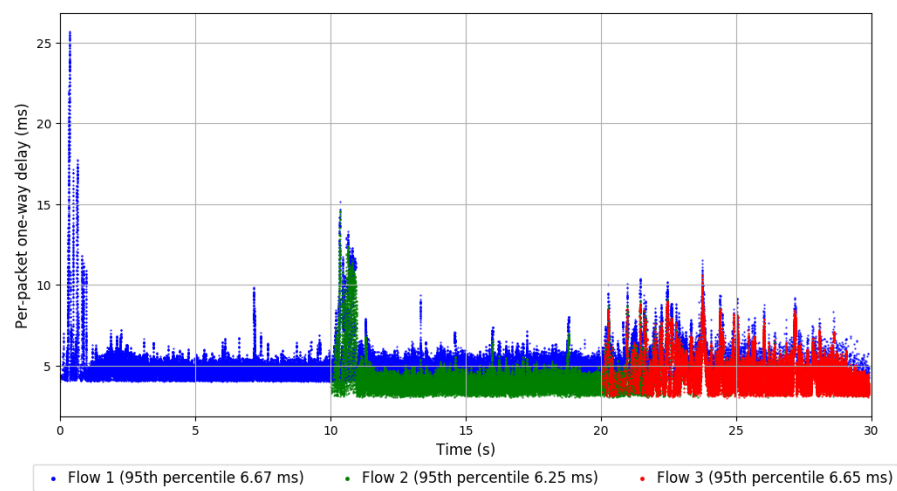
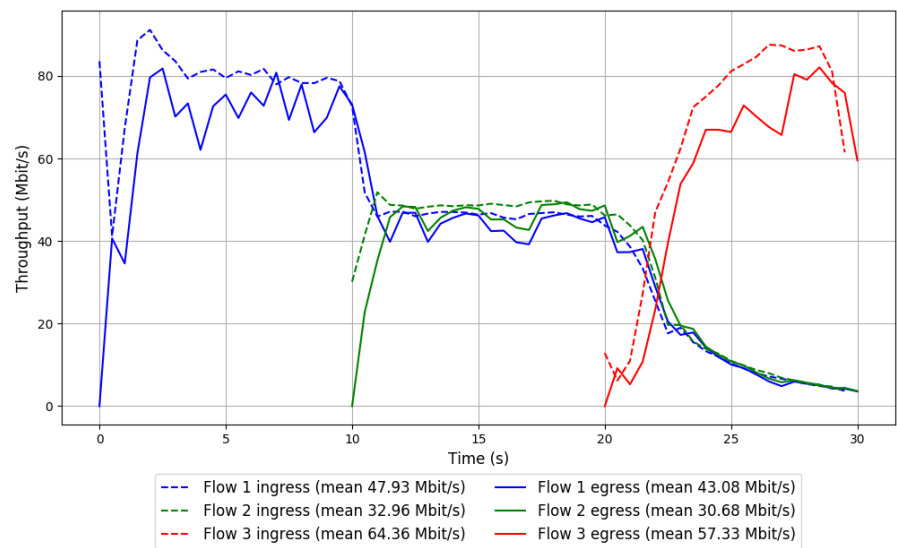
-- Flow 3:

Average throughput: 57.33 Mbit/s

95th percentile per-packet one-way delay: 6.649 ms

Loss rate: 10.92%

Run 5: Report of Indigo-Muses — Data Link



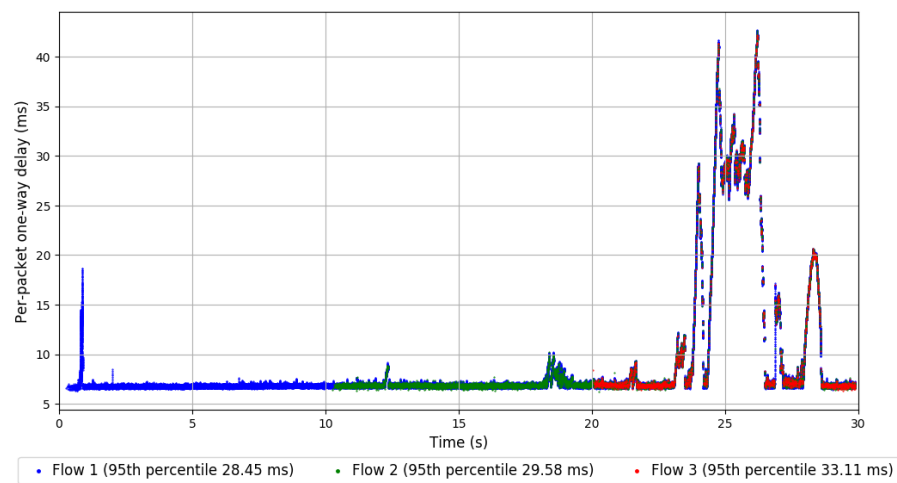
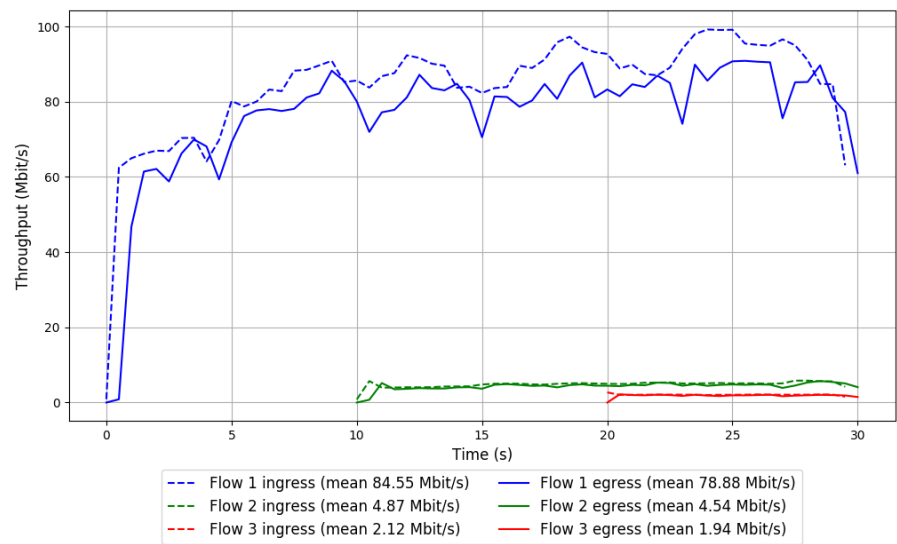


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-10-09 21:12:50
End at: 2018-10-09 21:13:20
Local clock offset: 1.0 ms
Remote clock offset: -3.658 ms

# Below is generated by plot.py at 2018-10-09 22:45:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.53 Mbit/s
95th percentile per-packet one-way delay: 28.538 ms
Loss rate: 7.52%
-- Flow 1:
Average throughput: 78.88 Mbit/s
95th percentile per-packet one-way delay: 28.451 ms
Loss rate: 7.50%
-- Flow 2:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 29.582 ms
Loss rate: 8.00%
-- Flow 3:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 33.114 ms
Loss rate: 8.39%
```

Run 1: Report of PCC-Allegro — Data Link

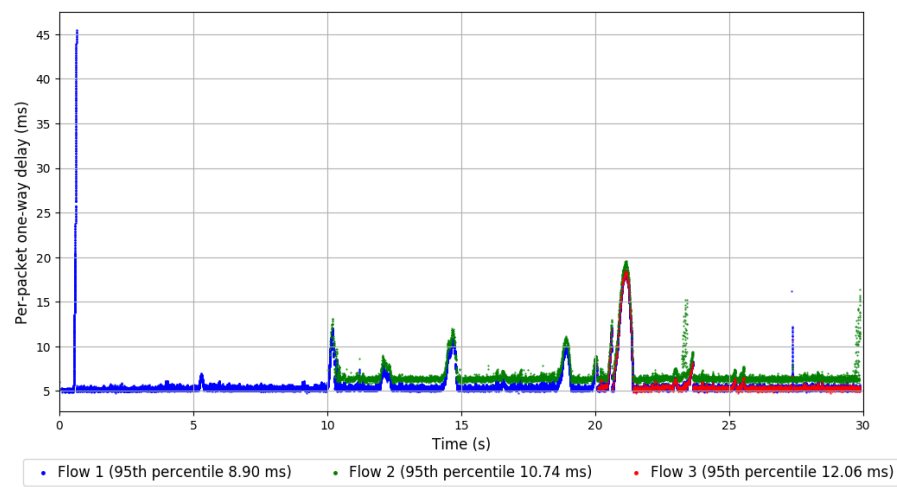
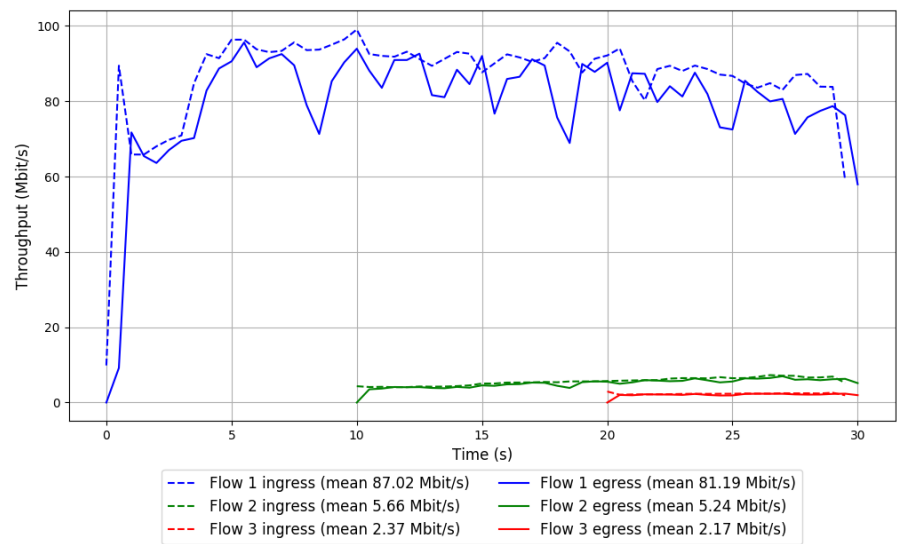


Run 2: Statistics of PCC-Allegro

Start at: 2018-10-09 21:33:59  
End at: 2018-10-09 21:34:29  
Local clock offset: 0.827 ms  
Remote clock offset: -4.708 ms

# Below is generated by plot.py at 2018-10-09 22:45:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.38 Mbit/s  
95th percentile per-packet one-way delay: 8.999 ms  
Loss rate: 6.75%  
-- Flow 1:  
Average throughput: 81.19 Mbit/s  
95th percentile per-packet one-way delay: 8.902 ms  
Loss rate: 6.70%  
-- Flow 2:  
Average throughput: 5.24 Mbit/s  
95th percentile per-packet one-way delay: 10.736 ms  
Loss rate: 7.29%  
-- Flow 3:  
Average throughput: 2.17 Mbit/s  
95th percentile per-packet one-way delay: 12.059 ms  
Loss rate: 8.73%

Run 2: Report of PCC-Allegro — Data Link

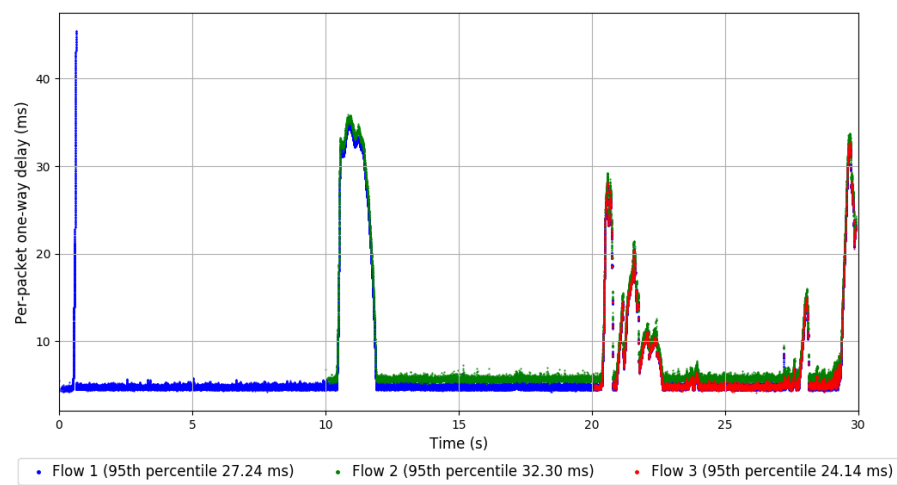
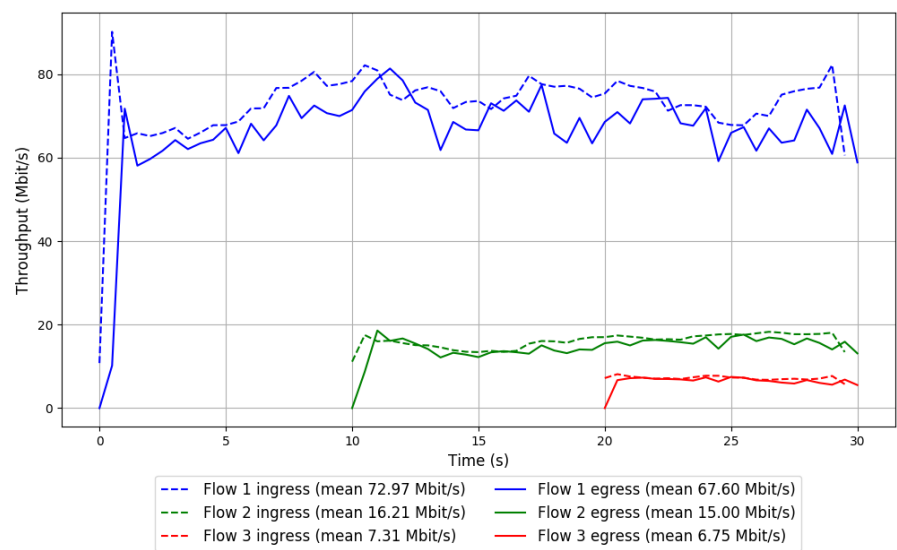


Run 3: Statistics of PCC-Allegro

Start at: 2018-10-09 21:55:11  
End at: 2018-10-09 21:55:41  
Local clock offset: 1.39 ms  
Remote clock offset: -5.005 ms

# Below is generated by plot.py at 2018-10-09 22:45:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.80 Mbit/s  
95th percentile per-packet one-way delay: 27.685 ms  
Loss rate: 7.32%  
-- Flow 1:  
Average throughput: 67.60 Mbit/s  
95th percentile per-packet one-way delay: 27.237 ms  
Loss rate: 7.30%  
-- Flow 2:  
Average throughput: 15.00 Mbit/s  
95th percentile per-packet one-way delay: 32.304 ms  
Loss rate: 7.39%  
-- Flow 3:  
Average throughput: 6.75 Mbit/s  
95th percentile per-packet one-way delay: 24.141 ms  
Loss rate: 7.52%

Run 3: Report of PCC-Allegro — Data Link

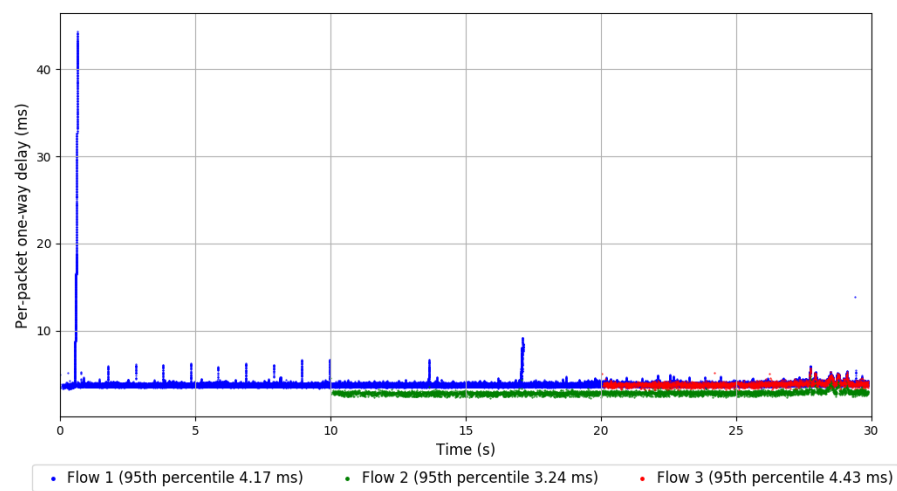
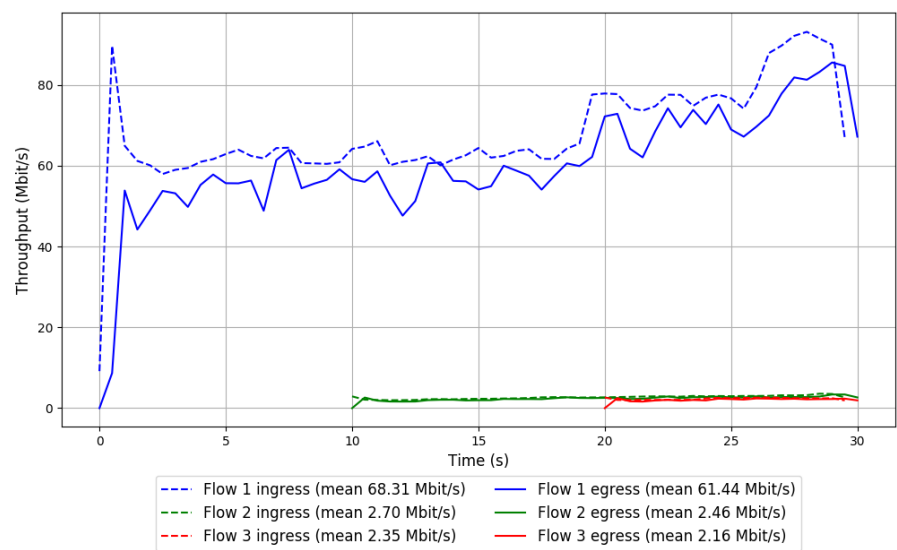


Run 4: Statistics of PCC-Allegro

Start at: 2018-10-09 22:16:14  
End at: 2018-10-09 22:16:44  
Local clock offset: 1.513 ms  
Remote clock offset: -5.734 ms

# Below is generated by plot.py at 2018-10-09 22:45:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.79 Mbit/s  
95th percentile per-packet one-way delay: 4.162 ms  
Loss rate: 10.00%  
-- Flow 1:  
Average throughput: 61.44 Mbit/s  
95th percentile per-packet one-way delay: 4.167 ms  
Loss rate: 10.05%  
-- Flow 2:  
Average throughput: 2.46 Mbit/s  
95th percentile per-packet one-way delay: 3.238 ms  
Loss rate: 8.90%  
-- Flow 3:  
Average throughput: 2.16 Mbit/s  
95th percentile per-packet one-way delay: 4.433 ms  
Loss rate: 8.22%

Run 4: Report of PCC-Allegro — Data Link





Run 5: Statistics of PCC-Allegro

Start at: 2018-10-09 22:37:29

End at: 2018-10-09 22:37:59

Local clock offset: 0.968 ms

Remote clock offset: -6.09 ms

# Below is generated by plot.py at 2018-10-09 22:46:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.54 Mbit/s

95th percentile per-packet one-way delay: 4.199 ms

Loss rate: 7.87%

-- Flow 1:

Average throughput: 54.90 Mbit/s

95th percentile per-packet one-way delay: 3.376 ms

Loss rate: 7.91%

-- Flow 2:

Average throughput: 8.92 Mbit/s

95th percentile per-packet one-way delay: 4.452 ms

Loss rate: 7.41%

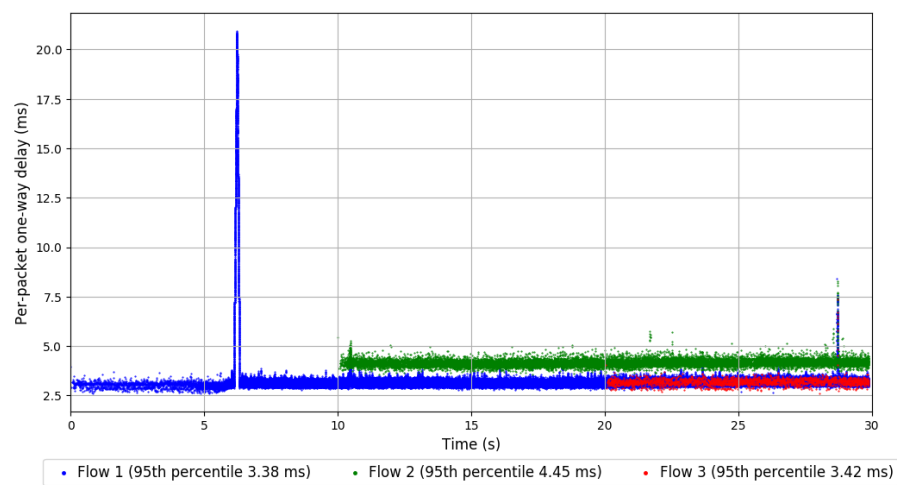
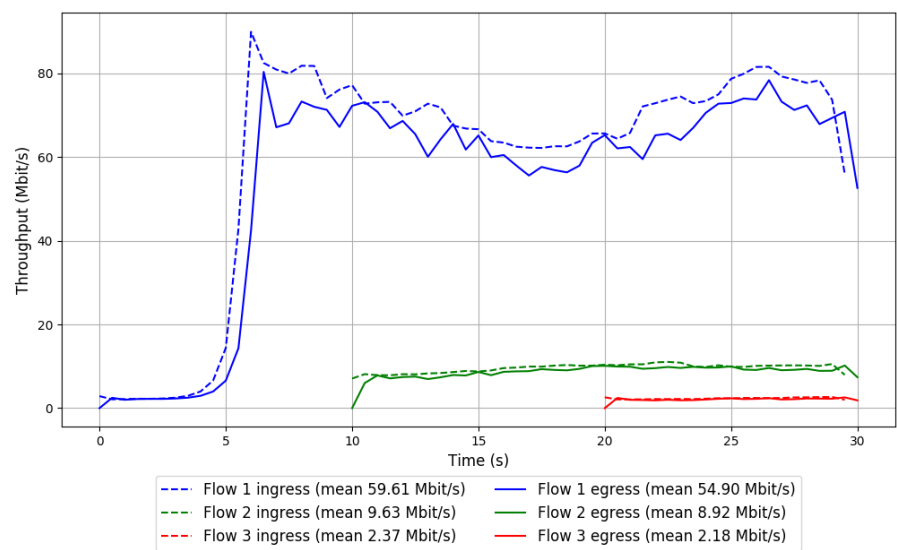
-- Flow 3:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 3.423 ms

Loss rate: 8.07%

Run 5: Report of PCC-Allegro — Data Link

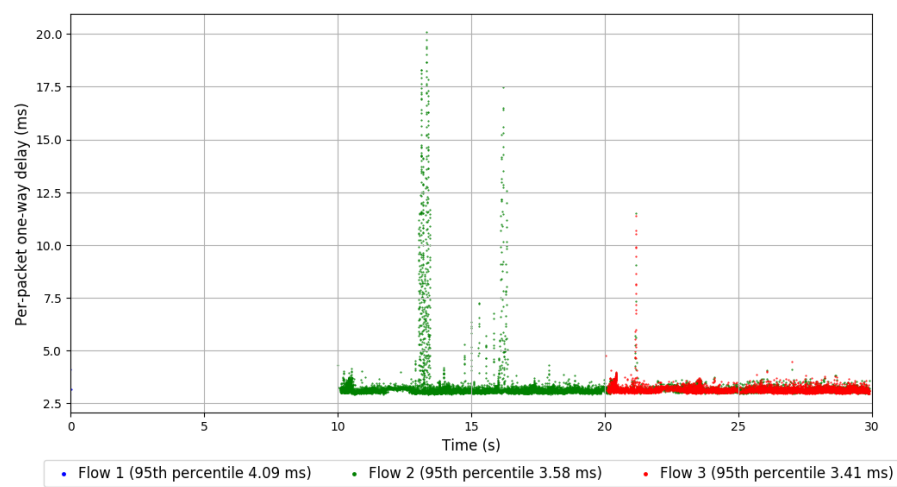
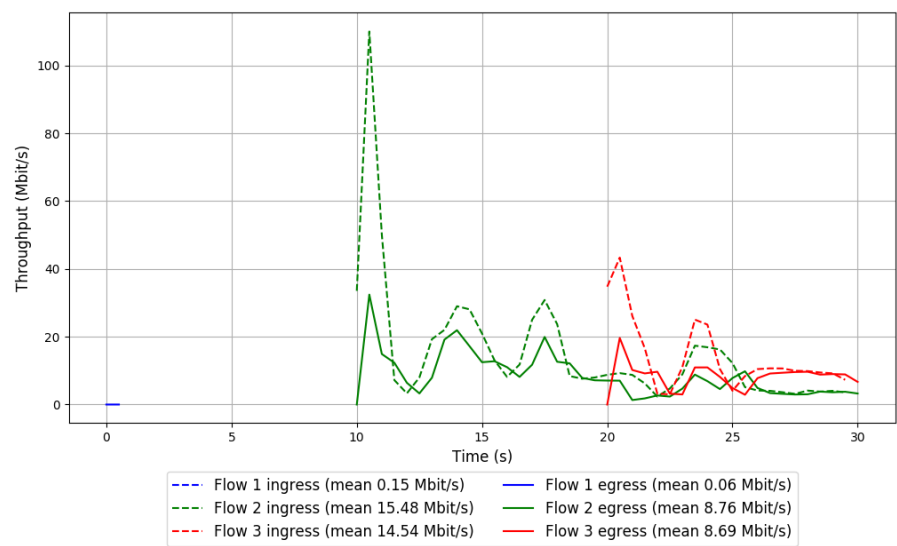


```
Run 1: Statistics of PCC-Expr

Start at: 2018-10-09 20:54:07
End at: 2018-10-09 20:54:37
Local clock offset: 0.986 ms
Remote clock offset: -6.617 ms

# Below is generated by plot.py at 2018-10-09 22:46:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.70 Mbit/s
95th percentile per-packet one-way delay: 3.504 ms
Loss rate: 42.41%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 4.088 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 8.76 Mbit/s
95th percentile per-packet one-way delay: 3.581 ms
Loss rate: 43.42%
-- Flow 3:
Average throughput: 8.69 Mbit/s
95th percentile per-packet one-way delay: 3.407 ms
Loss rate: 40.24%
```

Run 1: Report of PCC-Expr — Data Link

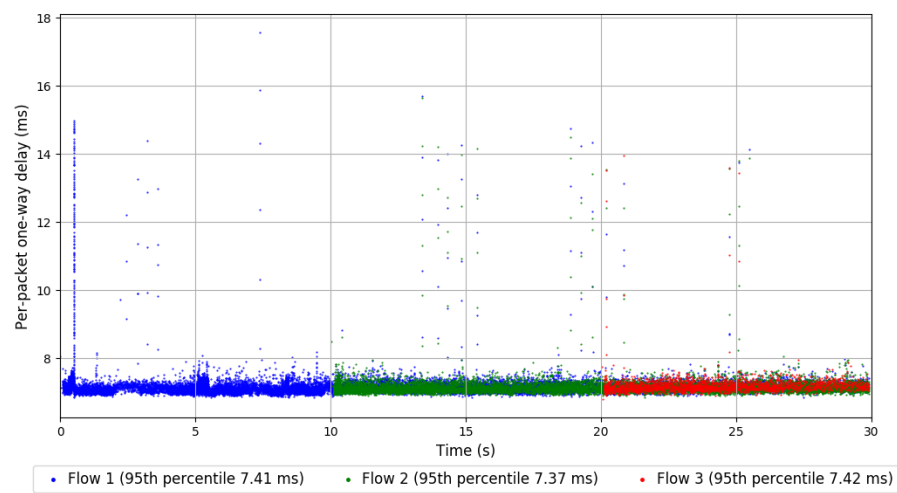
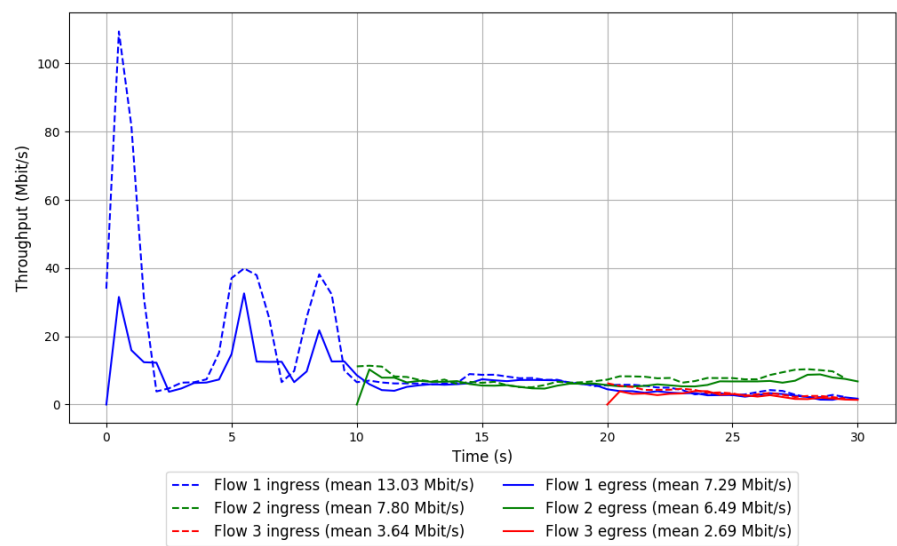


Run 2: Statistics of PCC-Expr

Start at: 2018-10-09 21:15:17  
End at: 2018-10-09 21:15:47  
Local clock offset: 0.34 ms  
Remote clock offset: -3.692 ms

# Below is generated by plot.py at 2018-10-09 22:46:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.50 Mbit/s  
95th percentile per-packet one-way delay: 7.395 ms  
Loss rate: 35.65%  
-- Flow 1:  
Average throughput: 7.29 Mbit/s  
95th percentile per-packet one-way delay: 7.406 ms  
Loss rate: 44.02%  
-- Flow 2:  
Average throughput: 6.49 Mbit/s  
95th percentile per-packet one-way delay: 7.366 ms  
Loss rate: 16.82%  
-- Flow 3:  
Average throughput: 2.69 Mbit/s  
95th percentile per-packet one-way delay: 7.424 ms  
Loss rate: 26.17%

Run 2: Report of PCC-Expr — Data Link

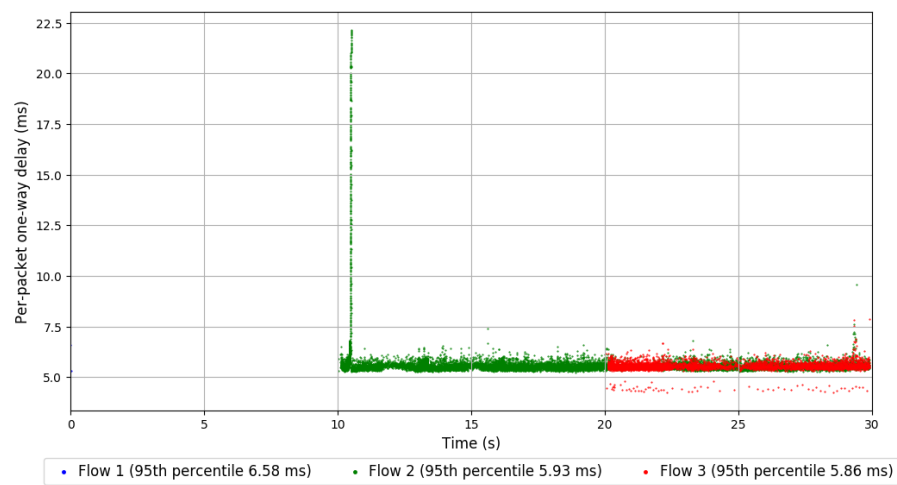
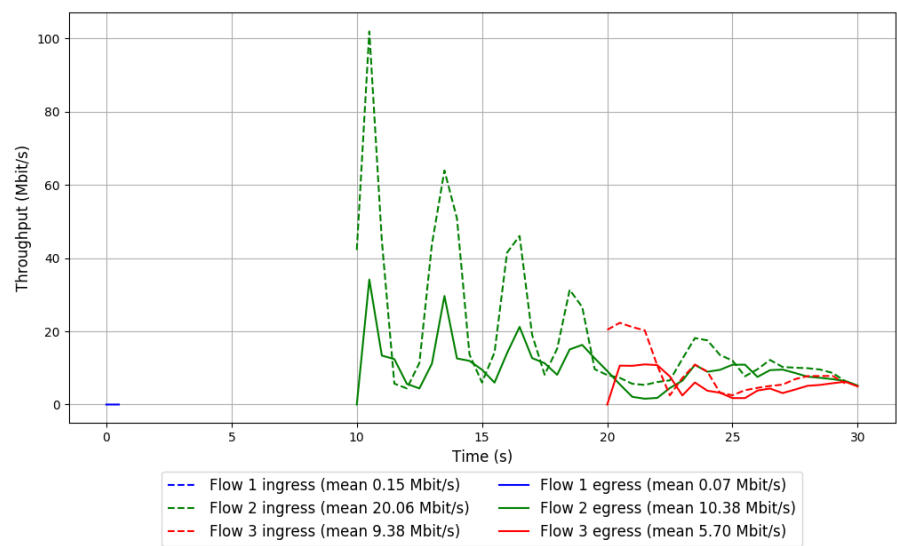


Run 3: Statistics of PCC-Expr

Start at: 2018-10-09 21:36:21  
End at: 2018-10-09 21:36:51  
Local clock offset: 1.246 ms  
Remote clock offset: -4.996 ms

# Below is generated by plot.py at 2018-10-09 22:46:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.79 Mbit/s  
95th percentile per-packet one-way delay: 5.910 ms  
Loss rate: 46.54%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 6.582 ms  
Loss rate: 85.71%  
-- Flow 2:  
Average throughput: 10.38 Mbit/s  
95th percentile per-packet one-way delay: 5.928 ms  
Loss rate: 48.23%  
-- Flow 3:  
Average throughput: 5.70 Mbit/s  
95th percentile per-packet one-way delay: 5.863 ms  
Loss rate: 39.27%

Run 3: Report of PCC-Expr — Data Link



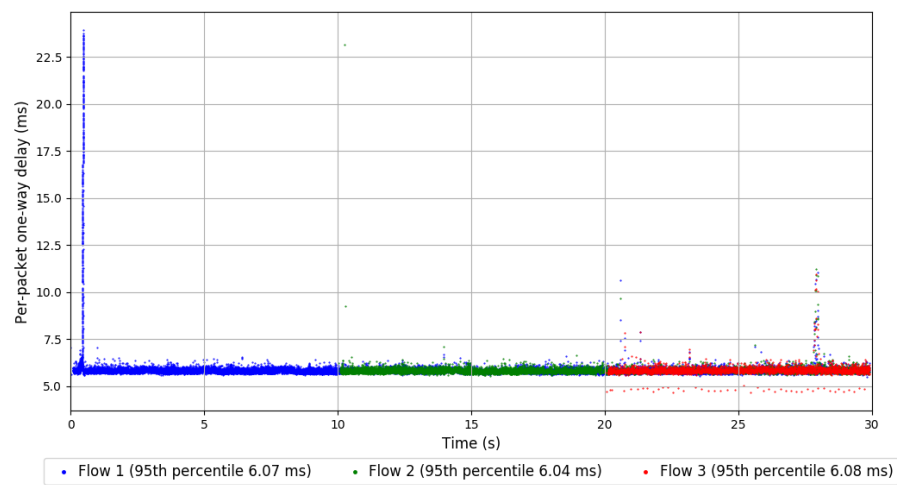
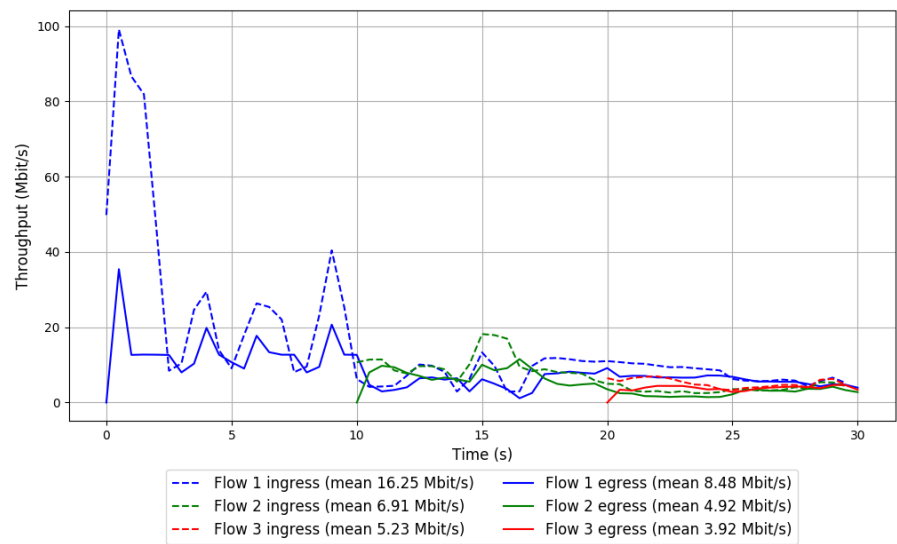


Run 4: Statistics of PCC-Expr

Start at: 2018-10-09 21:57:34  
End at: 2018-10-09 21:58:04  
Local clock offset: 0.581 ms  
Remote clock offset: -5.255 ms

# Below is generated by plot.py at 2018-10-09 22:46:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.05 Mbit/s  
95th percentile per-packet one-way delay: 6.060 ms  
Loss rate: 42.20%  
-- Flow 1:  
Average throughput: 8.48 Mbit/s  
95th percentile per-packet one-way delay: 6.071 ms  
Loss rate: 47.81%  
-- Flow 2:  
Average throughput: 4.92 Mbit/s  
95th percentile per-packet one-way delay: 6.036 ms  
Loss rate: 28.88%  
-- Flow 3:  
Average throughput: 3.92 Mbit/s  
95th percentile per-packet one-way delay: 6.080 ms  
Loss rate: 24.97%

Run 4: Report of PCC-Expr — Data Link

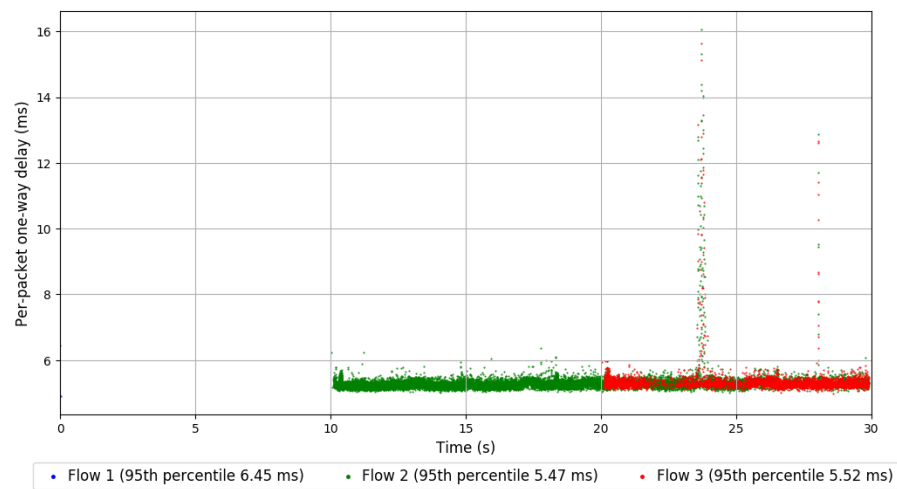
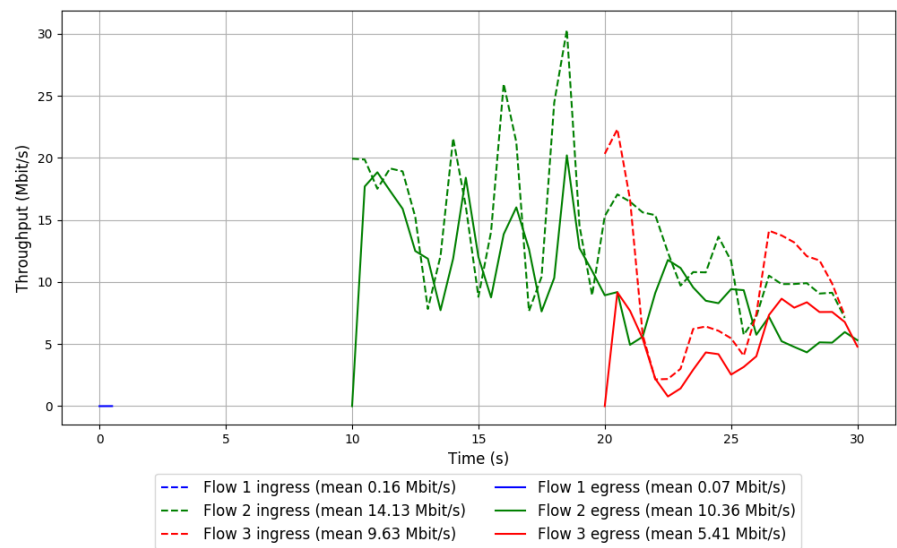


Run 5: Statistics of PCC-Expr

Start at: 2018-10-09 22:18:37  
End at: 2018-10-09 22:19:07  
Local clock offset: 0.186 ms  
Remote clock offset: -5.427 ms

# Below is generated by plot.py at 2018-10-09 22:46:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.68 Mbit/s  
95th percentile per-packet one-way delay: 5.477 ms  
Loss rate: 31.02%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 6.446 ms  
Loss rate: 85.71%  
-- Flow 2:  
Average throughput: 10.36 Mbit/s  
95th percentile per-packet one-way delay: 5.467 ms  
Loss rate: 26.70%  
-- Flow 3:  
Average throughput: 5.41 Mbit/s  
95th percentile per-packet one-way delay: 5.520 ms  
Loss rate: 43.77%

Run 5: Report of PCC-Expr — Data Link

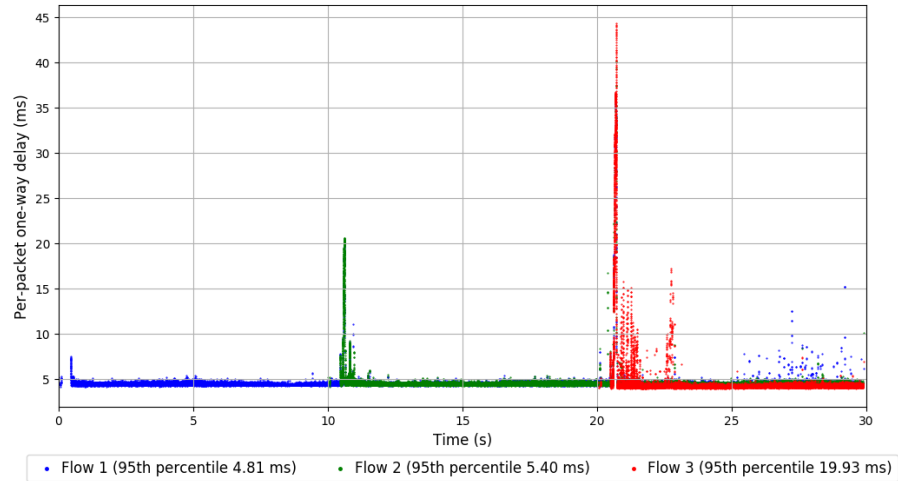
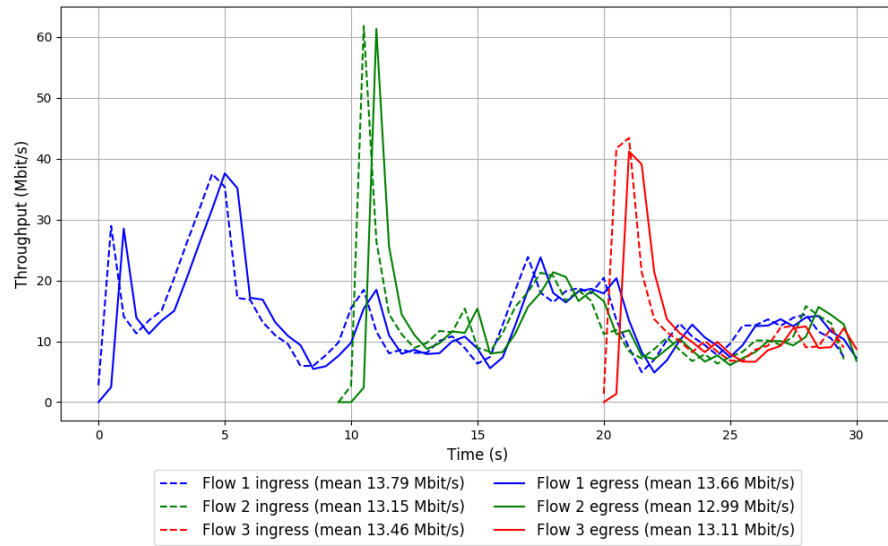


Run 1: Statistics of QUIC Cubic

Start at: 2018-10-09 21:05:54  
End at: 2018-10-09 21:06:24  
Local clock offset: 1.129 ms  
Remote clock offset: -5.608 ms

# Below is generated by plot.py at 2018-10-09 22:46:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 26.63 Mbit/s  
95th percentile per-packet one-way delay: 5.279 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 13.66 Mbit/s  
95th percentile per-packet one-way delay: 4.814 ms  
Loss rate: 0.92%  
-- Flow 2:  
Average throughput: 12.99 Mbit/s  
95th percentile per-packet one-way delay: 5.398 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 13.11 Mbit/s  
95th percentile per-packet one-way delay: 19.935 ms  
Loss rate: 2.54%

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

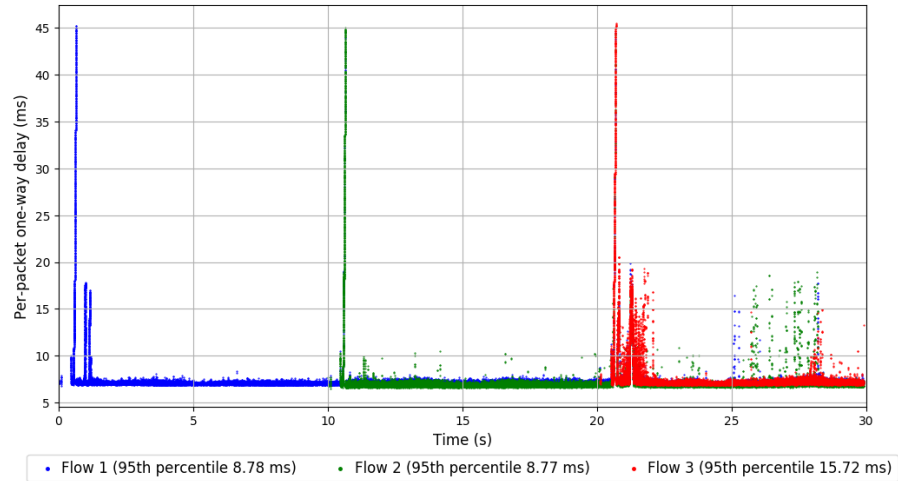
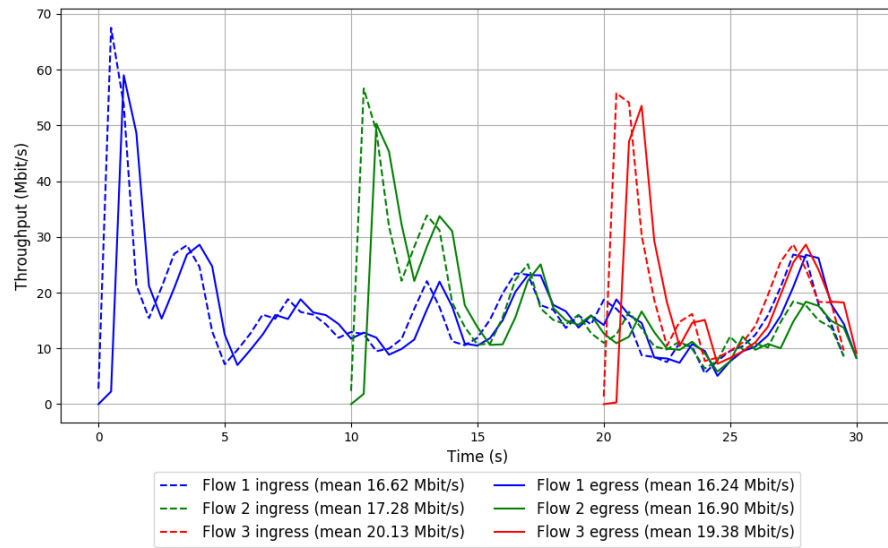


Run 2: Statistics of QUIC Cubic

Start at: 2018-10-09 21:27:05  
End at: 2018-10-09 21:27:35  
Local clock offset: 0.518 ms  
Remote clock offset: -4.057 ms

# Below is generated by plot.py at 2018-10-09 22:46:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 33.87 Mbit/s  
95th percentile per-packet one-way delay: 11.788 ms  
Loss rate: 2.53%  
-- Flow 1:  
Average throughput: 16.24 Mbit/s  
95th percentile per-packet one-way delay: 8.778 ms  
Loss rate: 2.29%  
-- Flow 2:  
Average throughput: 16.90 Mbit/s  
95th percentile per-packet one-way delay: 8.766 ms  
Loss rate: 2.23%  
-- Flow 3:  
Average throughput: 19.38 Mbit/s  
95th percentile per-packet one-way delay: 15.719 ms  
Loss rate: 3.65%

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



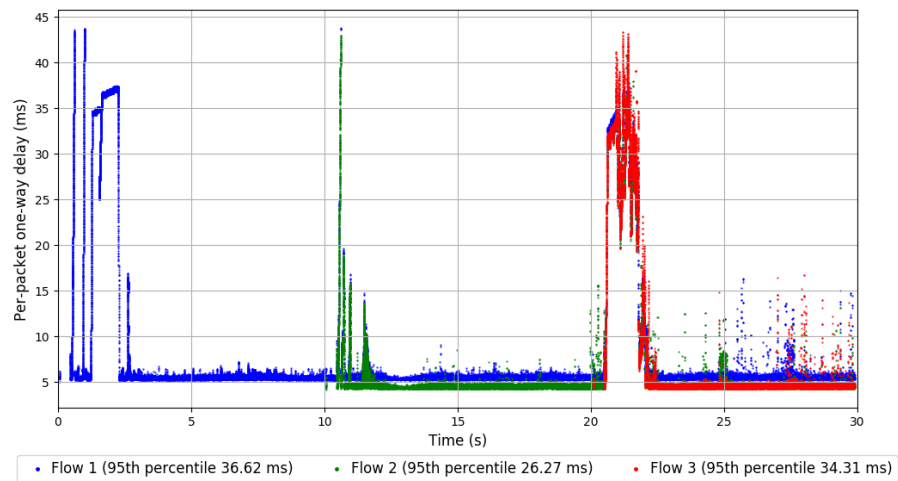
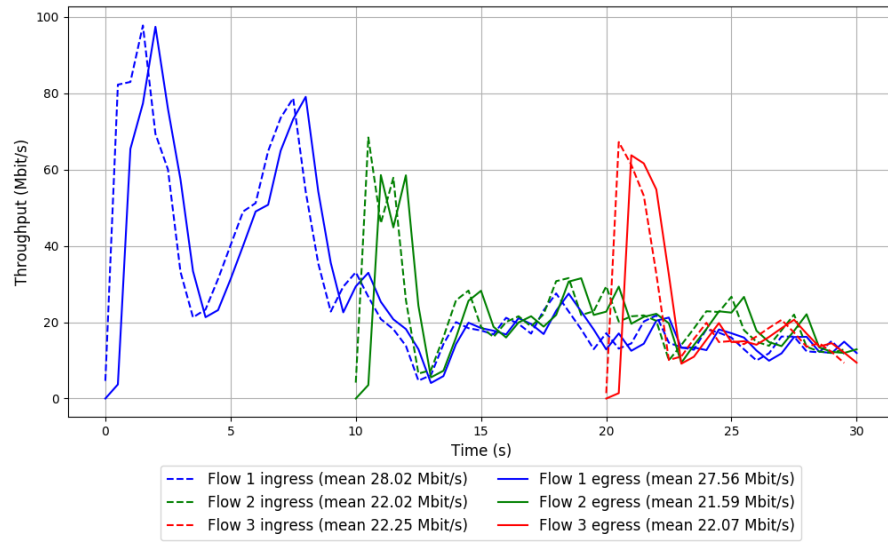


Run 3: Statistics of QUIC Cubic

Start at: 2018-10-09 21:48:05  
End at: 2018-10-09 21:48:35  
Local clock offset: 1.913 ms  
Remote clock offset: -4.634 ms

# Below is generated by plot.py at 2018-10-09 22:46:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.19 Mbit/s  
95th percentile per-packet one-way delay: 35.820 ms  
Loss rate: 1.62%  
-- Flow 1:  
Average throughput: 27.56 Mbit/s  
95th percentile per-packet one-way delay: 36.625 ms  
Loss rate: 1.65%  
-- Flow 2:  
Average throughput: 21.59 Mbit/s  
95th percentile per-packet one-way delay: 26.268 ms  
Loss rate: 1.97%  
-- Flow 3:  
Average throughput: 22.07 Mbit/s  
95th percentile per-packet one-way delay: 34.314 ms  
Loss rate: 0.83%

### Run 3: Report of QUIC Cubic — Data Link

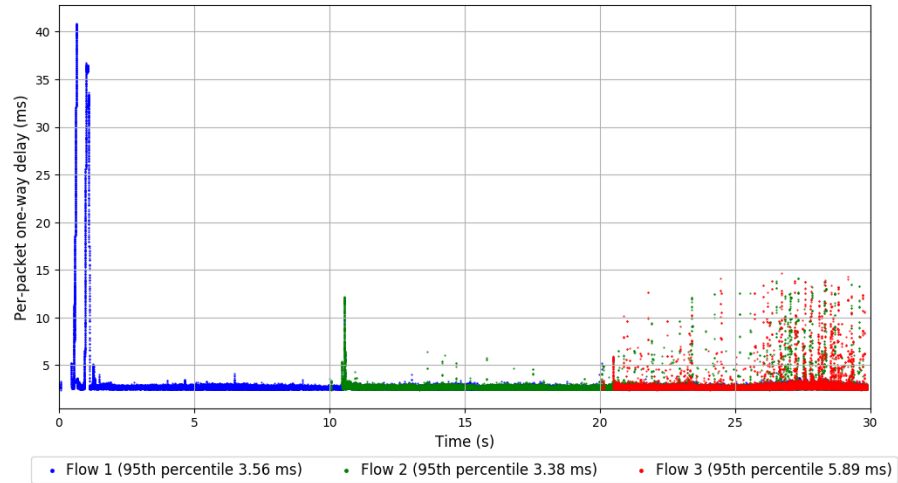
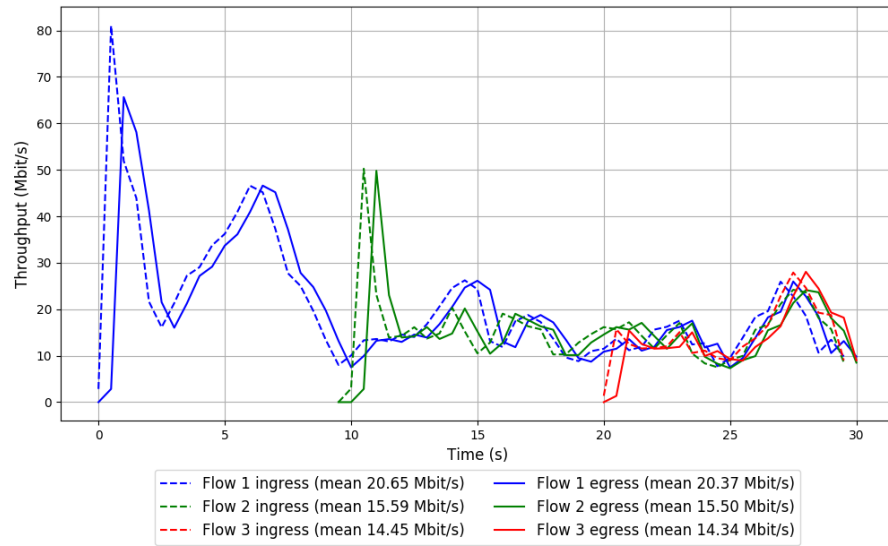


Run 4: Statistics of QUIC Cubic

Start at: 2018-10-09 22:09:20  
End at: 2018-10-09 22:09:50  
Local clock offset: 2.564 ms  
Remote clock offset: -4.845 ms

# Below is generated by plot.py at 2018-10-09 22:46:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 35.41 Mbit/s  
95th percentile per-packet one-way delay: 4.061 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 20.37 Mbit/s  
95th percentile per-packet one-way delay: 3.561 ms  
Loss rate: 1.34%  
-- Flow 2:  
Average throughput: 15.50 Mbit/s  
95th percentile per-packet one-way delay: 3.380 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 14.34 Mbit/s  
95th percentile per-packet one-way delay: 5.891 ms  
Loss rate: 0.82%

#### Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-10-09 22:30:35

End at: 2018-10-09 22:31:05

Local clock offset: 0.179 ms

Remote clock offset: -5.2 ms

# Below is generated by plot.py at 2018-10-09 22:46:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 16.60 Mbit/s

95th percentile per-packet one-way delay: 5.902 ms

Loss rate: 3.95%

-- Flow 1:

Average throughput: 8.84 Mbit/s

95th percentile per-packet one-way delay: 5.845 ms

Loss rate: 3.74%

-- Flow 2:

Average throughput: 8.25 Mbit/s

95th percentile per-packet one-way delay: 5.893 ms

Loss rate: 4.12%

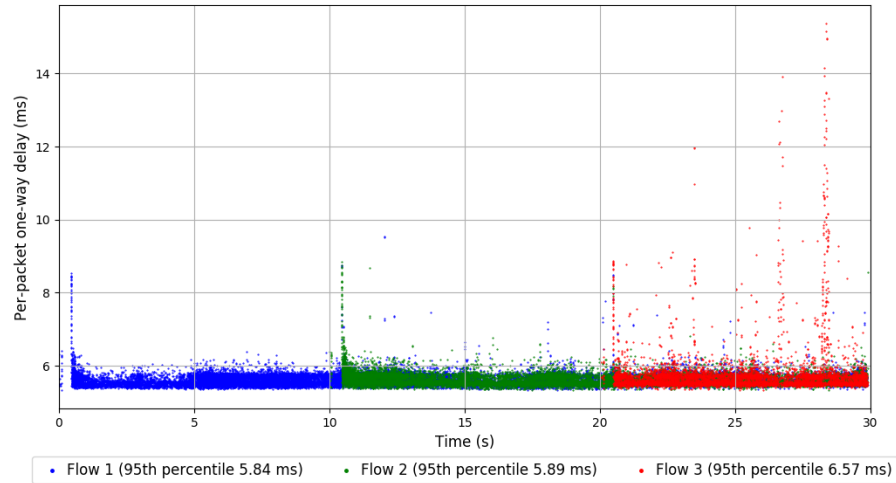
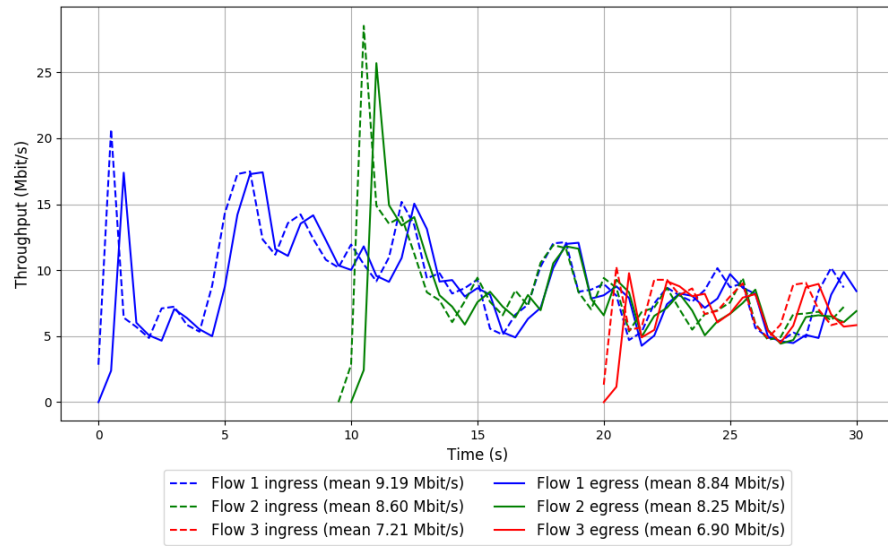
-- Flow 3:

Average throughput: 6.90 Mbit/s

95th percentile per-packet one-way delay: 6.568 ms

Loss rate: 4.35%

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

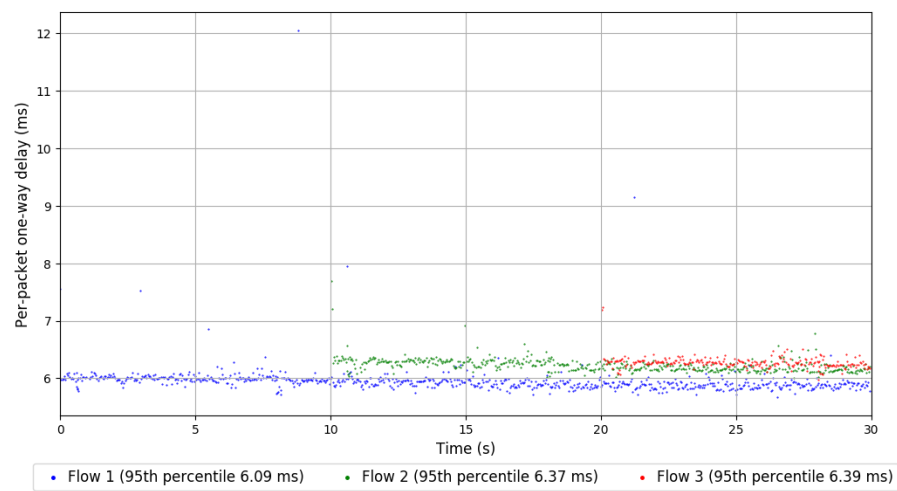
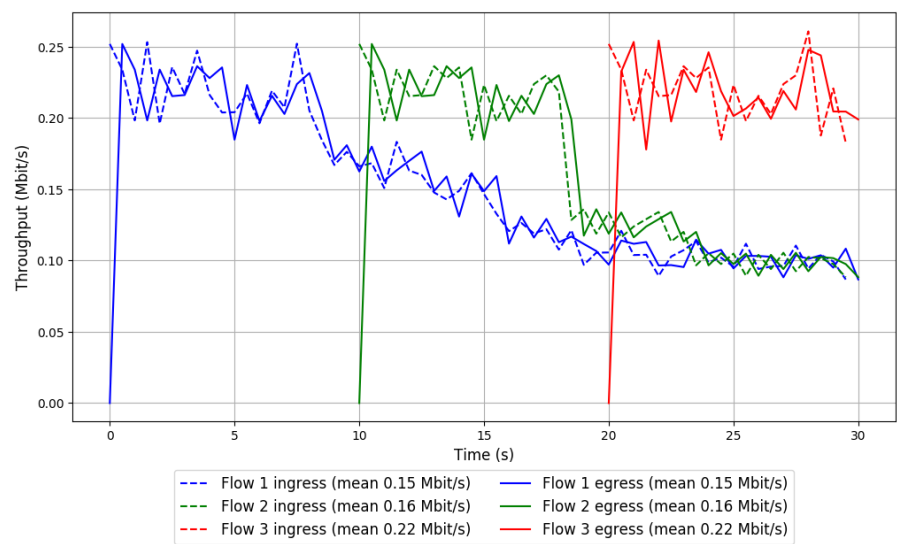


```
Run 1: Statistics of SCReAM

Start at: 2018-10-09 21:11:44
End at: 2018-10-09 21:12:14
Local clock offset: 1.405 ms
Remote clock offset: -3.668 ms

# Below is generated by plot.py at 2018-10-09 22:46:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 6.353 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 6.089 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 6.366 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 6.395 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



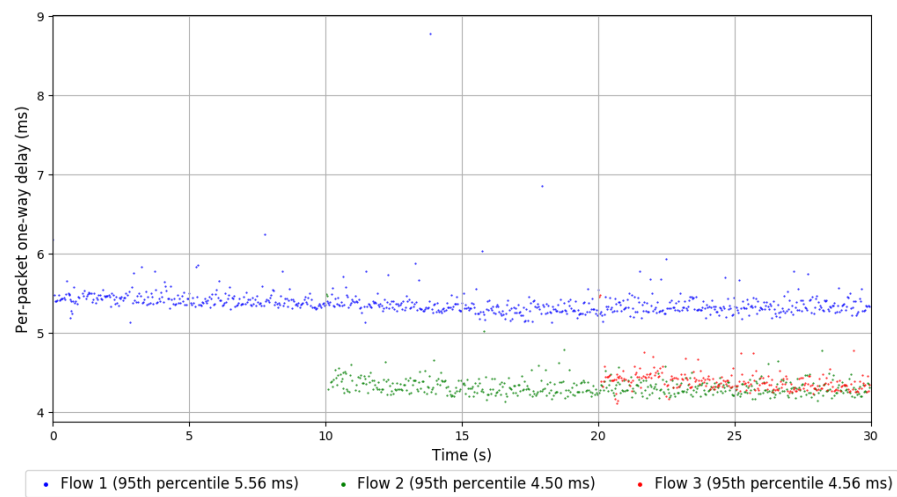
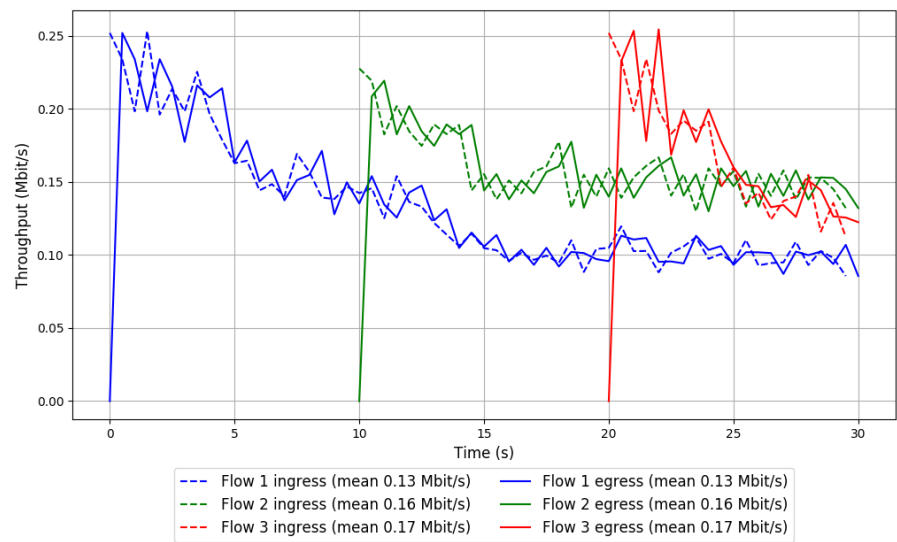


Run 2: Statistics of SCReAM

Start at: 2018-10-09 21:32:53  
End at: 2018-10-09 21:33:23  
Local clock offset: 1.718 ms  
Remote clock offset: -4.513 ms

# Below is generated by plot.py at 2018-10-09 22:46:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.29 Mbit/s  
95th percentile per-packet one-way delay: 5.491 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 5.557 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 4.497 ms  
Loss rate: 0.30%  
-- Flow 3:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 4.563 ms  
Loss rate: 0.42%

Run 2: Report of SReAM — Data Link

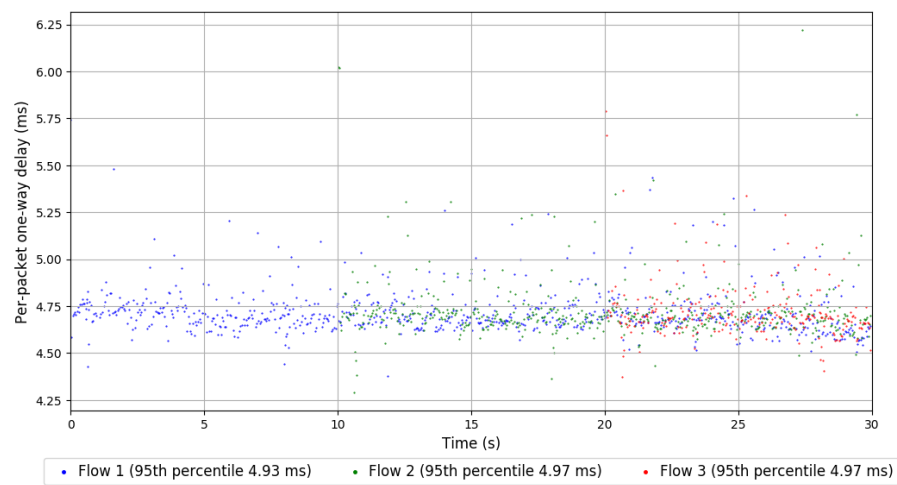
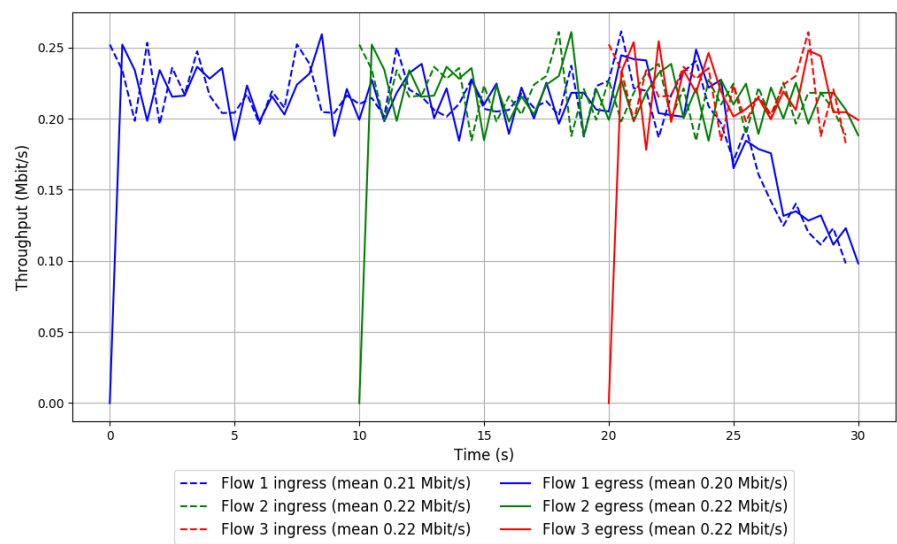


Run 3: Statistics of SReAM

Start at: 2018-10-09 21:54:04  
End at: 2018-10-09 21:54:34  
Local clock offset: 1.461 ms  
Remote clock offset: -4.943 ms

# Below is generated by plot.py at 2018-10-09 22:46:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 4.954 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 4.928 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 4.967 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 4.972 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

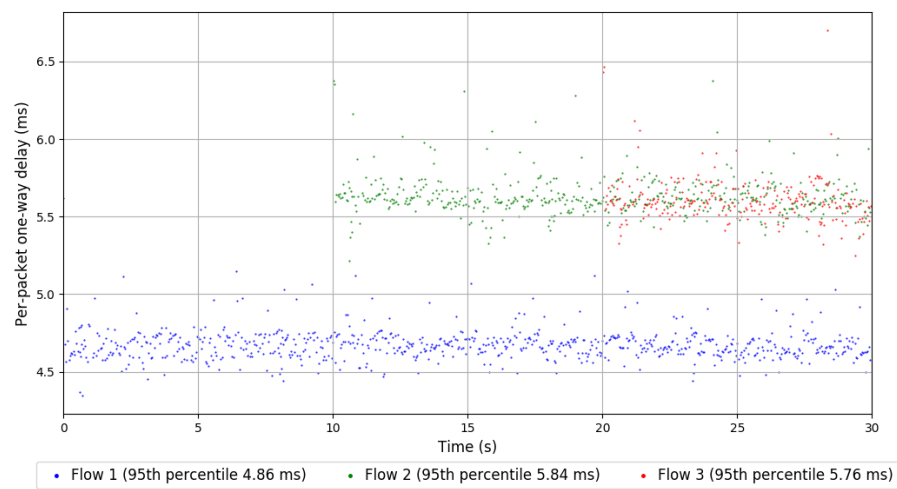
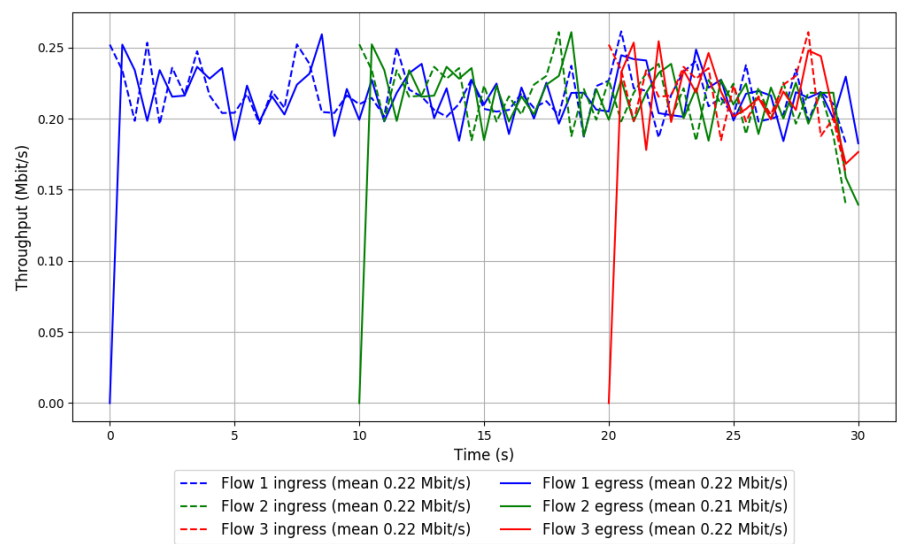


Run 4: Statistics of SReAM

Start at: 2018-10-09 22:15:07  
End at: 2018-10-09 22:15:37  
Local clock offset: -0.04 ms  
Remote clock offset: -5.365 ms

# Below is generated by plot.py at 2018-10-09 22:46:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 5.739 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 4.855 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 5.843 ms  
Loss rate: 0.35%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 5.758 ms  
Loss rate: 0.39%

Run 4: Report of SReAM — Data Link

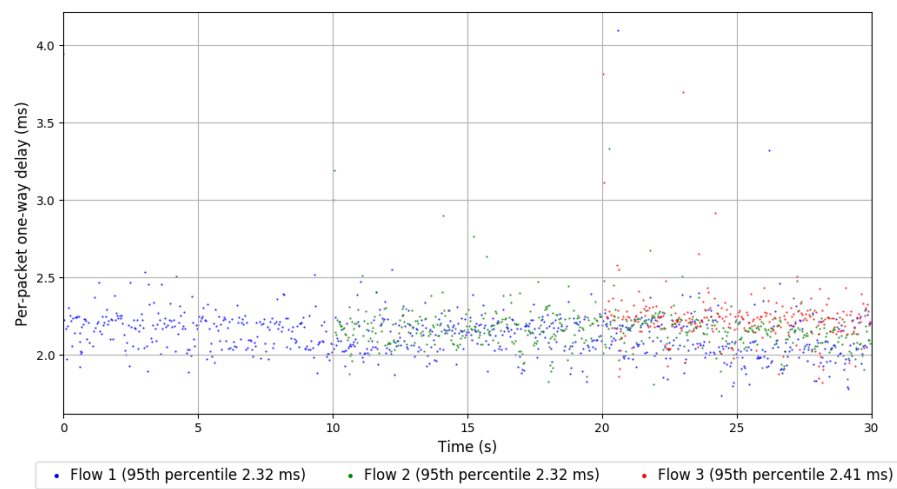
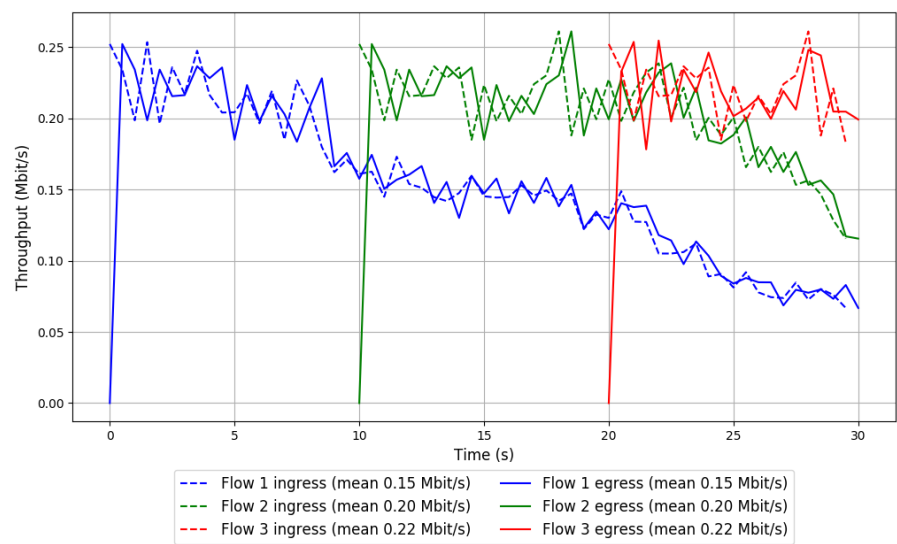


Run 5: Statistics of SReAM

Start at: 2018-10-09 22:36:23  
End at: 2018-10-09 22:36:53  
Local clock offset: 1.926 ms  
Remote clock offset: -6.023 ms

# Below is generated by plot.py at 2018-10-09 22:46:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.36 Mbit/s  
95th percentile per-packet one-way delay: 2.342 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 2.321 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 2.319 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.411 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



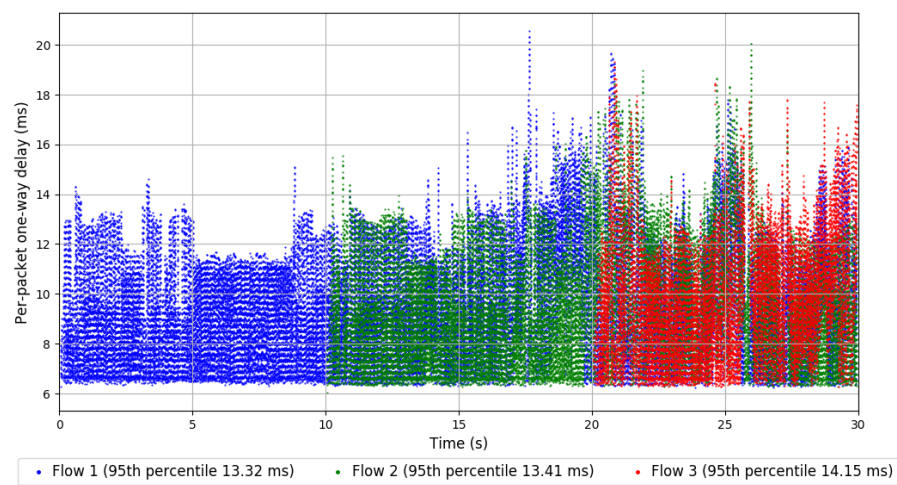
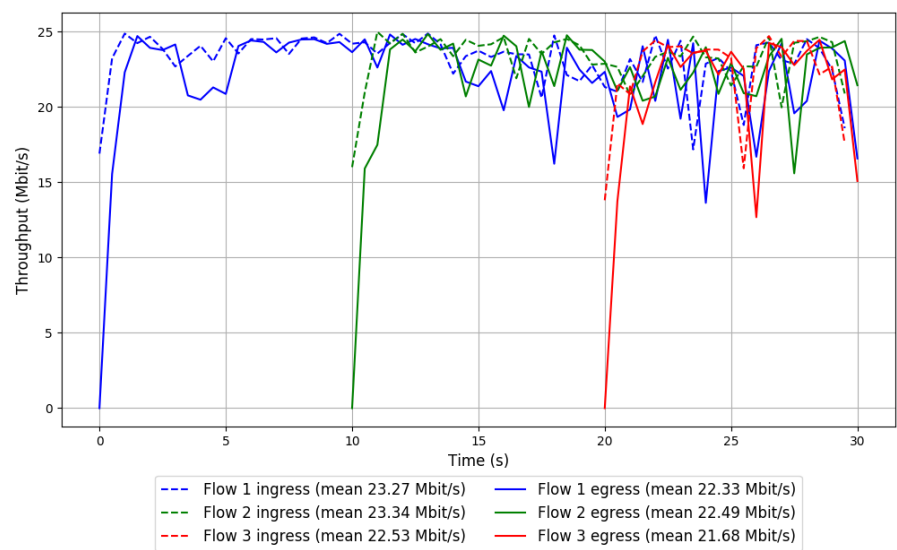


Run 1: Statistics of Sprout

Start at: 2018-10-09 21:09:21  
End at: 2018-10-09 21:09:51  
Local clock offset: 0.154 ms  
Remote clock offset: -4.398 ms

# Below is generated by plot.py at 2018-10-09 22:46:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 44.46 Mbit/s  
95th percentile per-packet one-way delay: 13.488 ms  
Loss rate: 3.82%  
-- Flow 1:  
Average throughput: 22.33 Mbit/s  
95th percentile per-packet one-way delay: 13.325 ms  
Loss rate: 3.99%  
-- Flow 2:  
Average throughput: 22.49 Mbit/s  
95th percentile per-packet one-way delay: 13.413 ms  
Loss rate: 3.63%  
-- Flow 3:  
Average throughput: 21.68 Mbit/s  
95th percentile per-packet one-way delay: 14.154 ms  
Loss rate: 3.69%

Run 1: Report of Sprout — Data Link

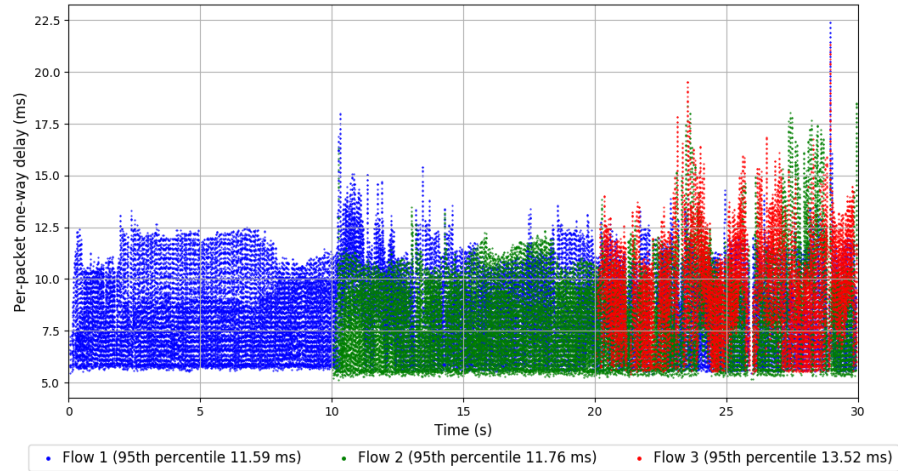
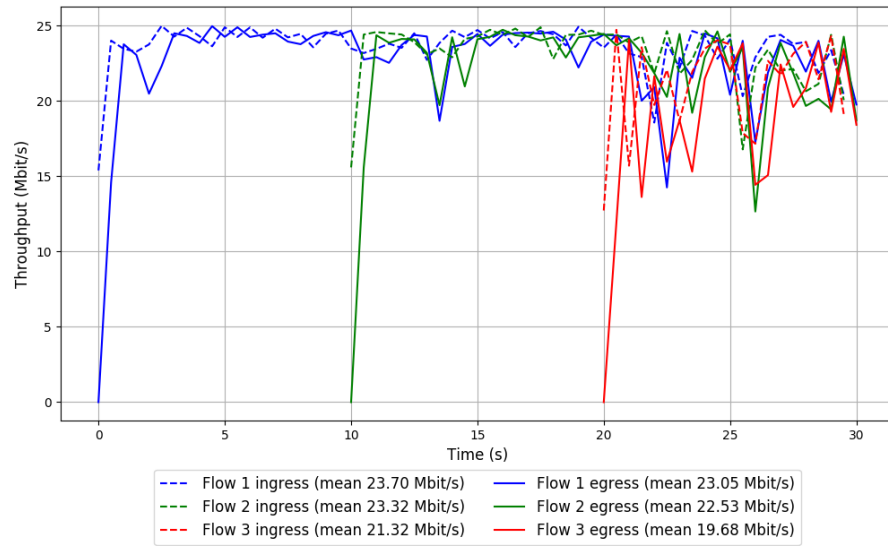


Run 2: Statistics of Sprout

Start at: 2018-10-09 21:30:31  
End at: 2018-10-09 21:31:01  
Local clock offset: 1.302 ms  
Remote clock offset: -4.846 ms

# Below is generated by plot.py at 2018-10-09 22:46:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 44.55 Mbit/s  
95th percentile per-packet one-way delay: 12.037 ms  
Loss rate: 3.67%  
-- Flow 1:  
Average throughput: 23.05 Mbit/s  
95th percentile per-packet one-way delay: 11.593 ms  
Loss rate: 2.71%  
-- Flow 2:  
Average throughput: 22.53 Mbit/s  
95th percentile per-packet one-way delay: 11.756 ms  
Loss rate: 3.33%  
-- Flow 3:  
Average throughput: 19.68 Mbit/s  
95th percentile per-packet one-way delay: 13.516 ms  
Loss rate: 7.63%

## Run 2: Report of Sprout — Data Link

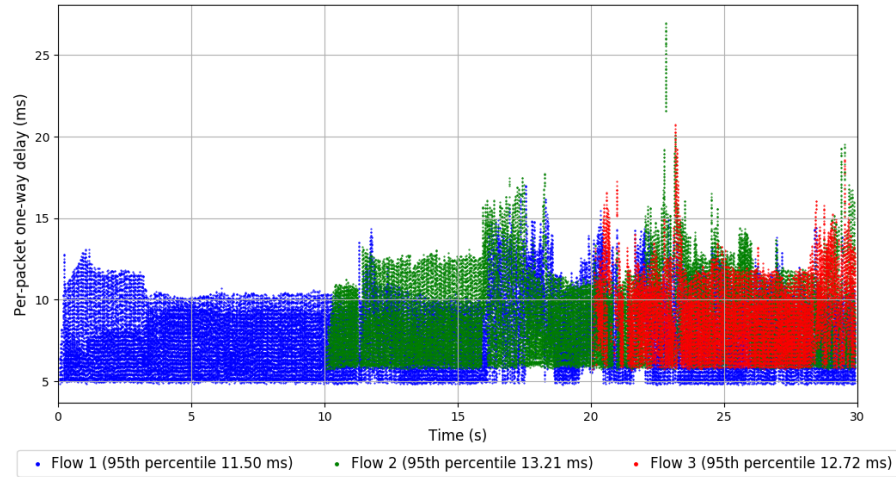
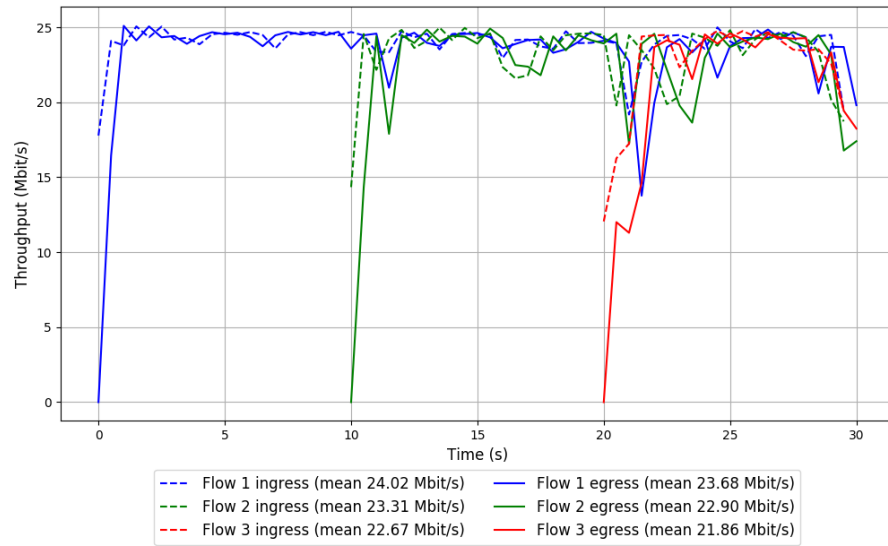


### Run 3: Statistics of Sprout

Start at: 2018-10-09 21:51:31  
End at: 2018-10-09 21:52:01  
Local clock offset: 1.094 ms  
Remote clock offset: -4.956 ms

```
# Below is generated by plot.py at 2018-10-09 22:46:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.13 Mbit/s
95th percentile per-packet one-way delay: 12.368 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 23.68 Mbit/s
95th percentile per-packet one-way delay: 11.501 ms
Loss rate: 1.41%
-- Flow 2:
Average throughput: 22.90 Mbit/s
95th percentile per-packet one-way delay: 13.205 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 21.86 Mbit/s
95th percentile per-packet one-way delay: 12.722 ms
Loss rate: 3.71%
```

### Run 3: Report of Sprout — Data Link

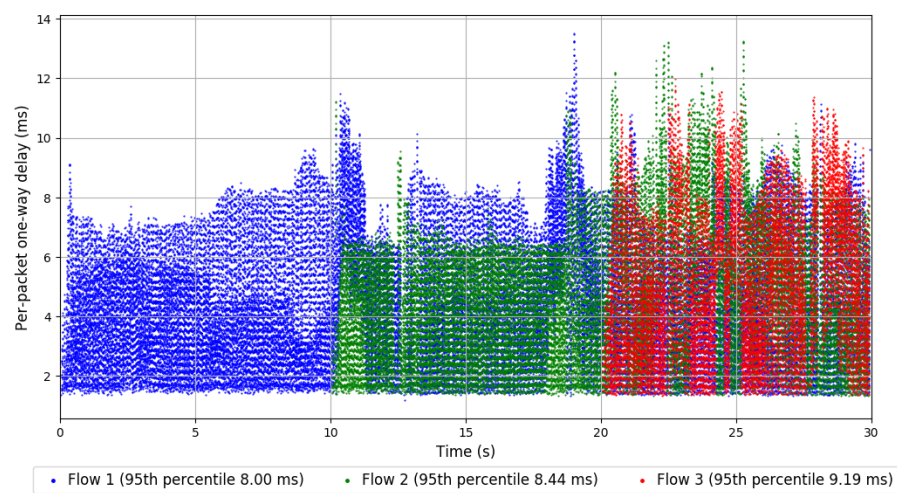
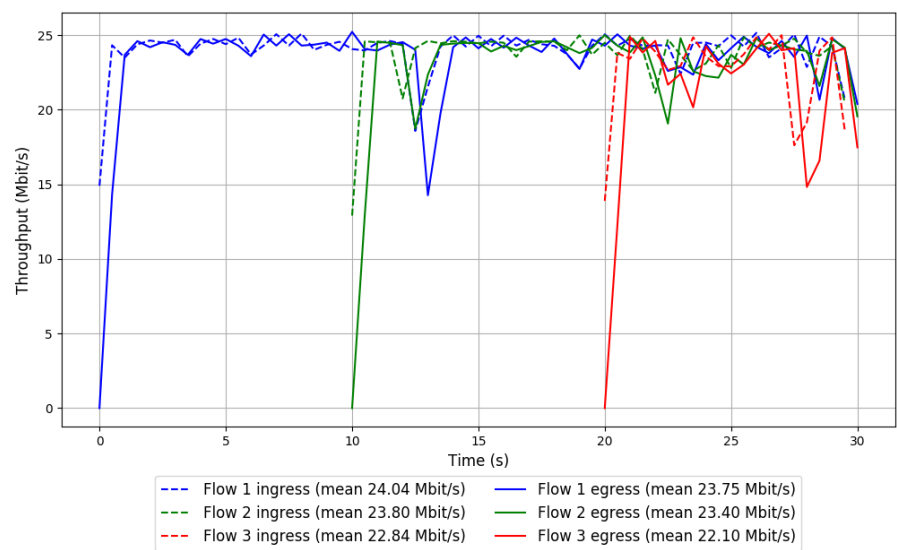


#### Run 4: Statistics of Sprout

Start at: 2018-10-09 22:12:46  
End at: 2018-10-09 22:13:16  
Local clock offset: 2.561 ms  
Remote clock offset: -5.938 ms

```
# Below is generated by plot.py at 2018-10-09 22:46:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.61 Mbit/s
95th percentile per-packet one-way delay: 8.387 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 8.000 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 23.40 Mbit/s
95th percentile per-packet one-way delay: 8.440 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 22.10 Mbit/s
95th percentile per-packet one-way delay: 9.189 ms
Loss rate: 3.25%
```

Run 4: Report of Sprout — Data Link



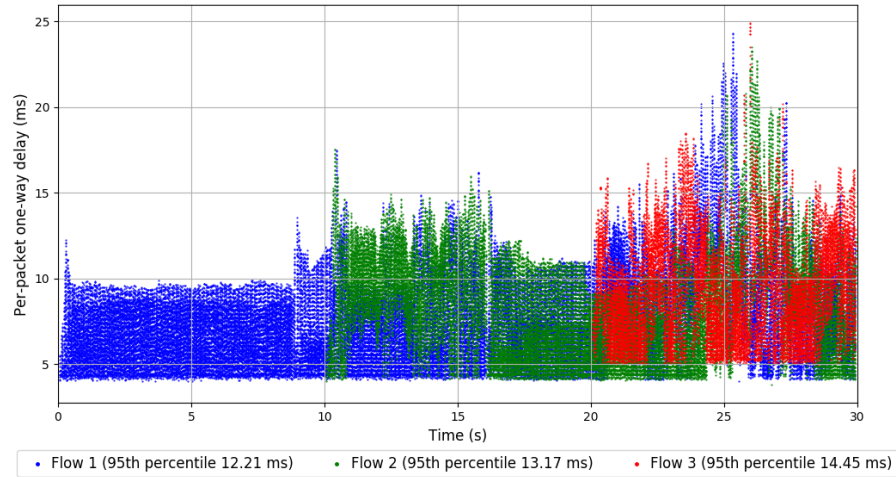
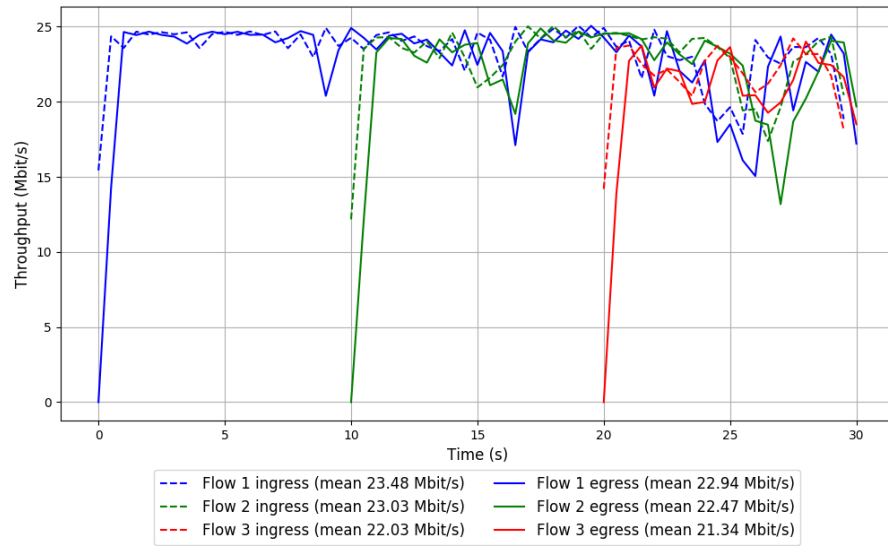


Run 5: Statistics of Sprout

Start at: 2018-10-09 22:34:00  
End at: 2018-10-09 22:34:30  
Local clock offset: -0.175 ms  
Remote clock offset: -6.017 ms

```
# Below is generated by plot.py at 2018-10-09 22:46:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.94 Mbit/s
95th percentile per-packet one-way delay: 13.204 ms
Loss rate: 2.44%
-- Flow 1:
Average throughput: 22.94 Mbit/s
95th percentile per-packet one-way delay: 12.205 ms
Loss rate: 2.31%
-- Flow 2:
Average throughput: 22.47 Mbit/s
95th percentile per-packet one-way delay: 13.172 ms
Loss rate: 2.37%
-- Flow 3:
Average throughput: 21.34 Mbit/s
95th percentile per-packet one-way delay: 14.449 ms
Loss rate: 3.02%
```

# Run 5: Report of Sprout — Data Link

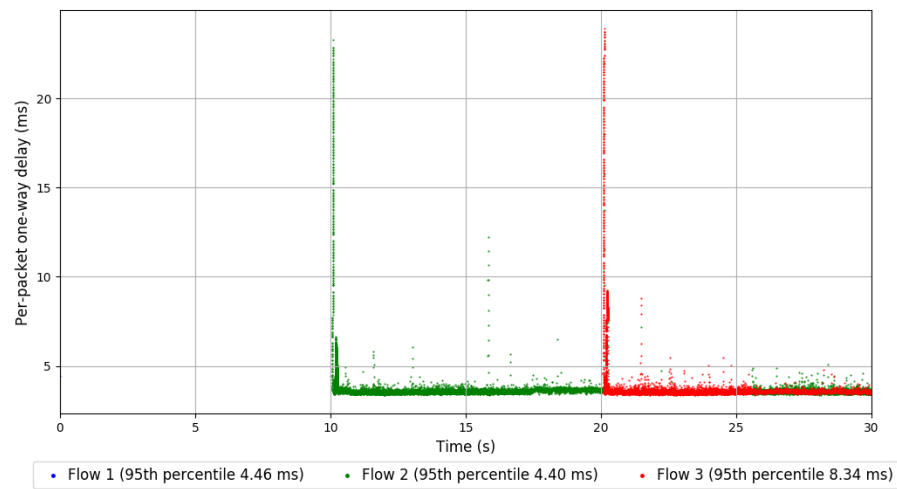
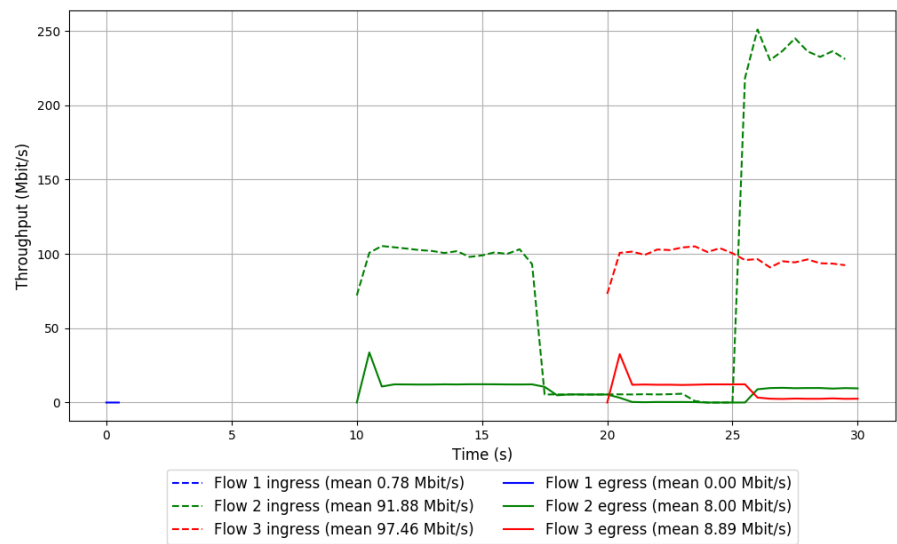


Run 1: Statistics of TaoVA-100x

Start at: 2018-10-09 21:07:04  
End at: 2018-10-09 21:07:34  
Local clock offset: 3.219 ms  
Remote clock offset: -4.209 ms

# Below is generated by plot.py at 2018-10-09 22:46:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.28 Mbit/s  
95th percentile per-packet one-way delay: 5.577 ms  
Loss rate: 91.15%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 4.460 ms  
Loss rate: 95.92%  
-- Flow 2:  
Average throughput: 8.00 Mbit/s  
95th percentile per-packet one-way delay: 4.401 ms  
Loss rate: 91.30%  
-- Flow 3:  
Average throughput: 8.89 Mbit/s  
95th percentile per-packet one-way delay: 8.336 ms  
Loss rate: 90.88%

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

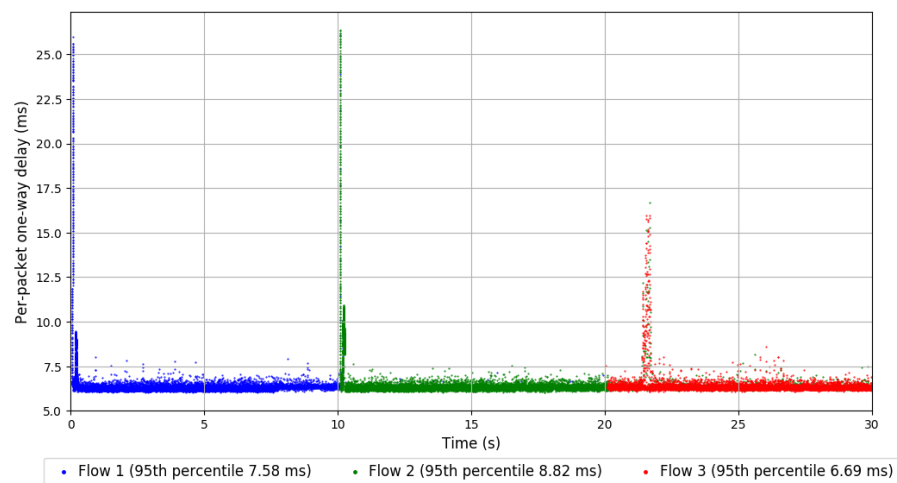
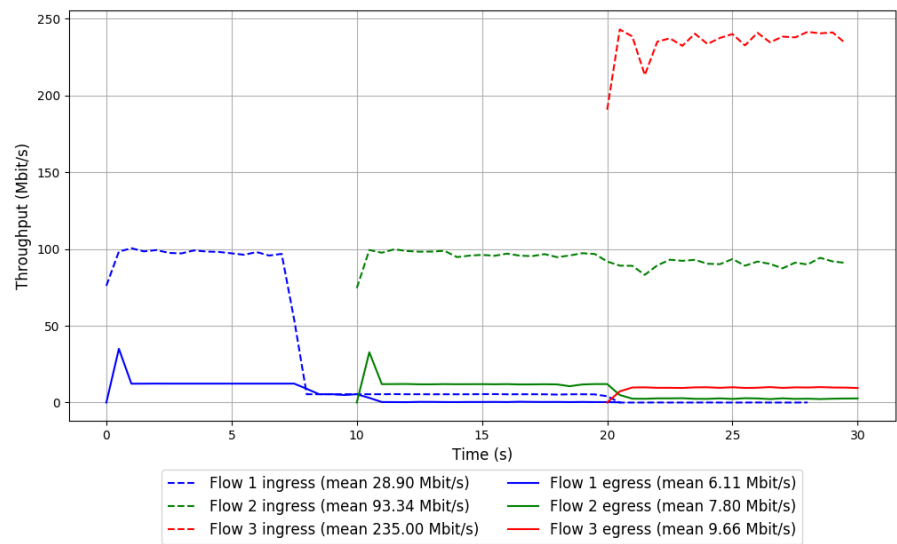


Run 2: Statistics of TaoVA-100x

Start at: 2018-10-09 21:28:14  
End at: 2018-10-09 21:28:44  
Local clock offset: 0.59 ms  
Remote clock offset: -4.632 ms

# Below is generated by plot.py at 2018-10-09 22:46:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.53 Mbit/s  
95th percentile per-packet one-way delay: 7.419 ms  
Loss rate: 92.52%  
-- Flow 1:  
Average throughput: 6.11 Mbit/s  
95th percentile per-packet one-way delay: 7.585 ms  
Loss rate: 84.87%  
-- Flow 2:  
Average throughput: 7.80 Mbit/s  
95th percentile per-packet one-way delay: 8.819 ms  
Loss rate: 91.64%  
-- Flow 3:  
Average throughput: 9.66 Mbit/s  
95th percentile per-packet one-way delay: 6.689 ms  
Loss rate: 95.89%

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

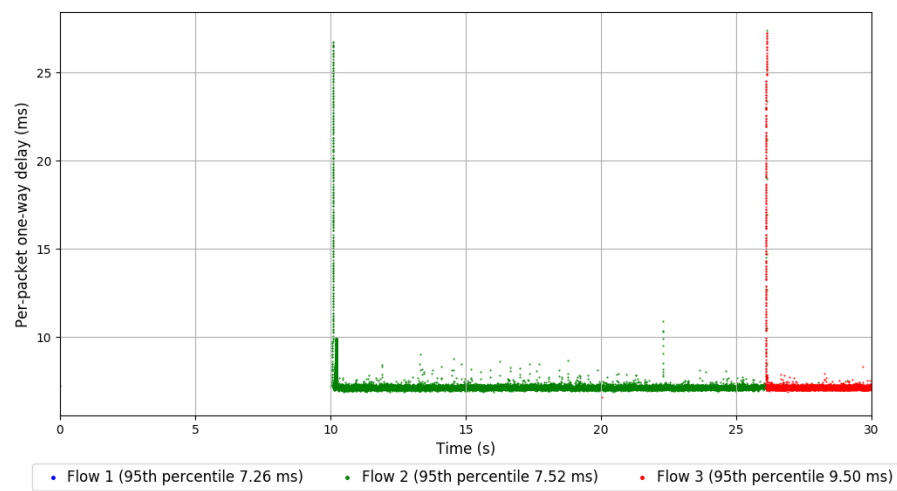
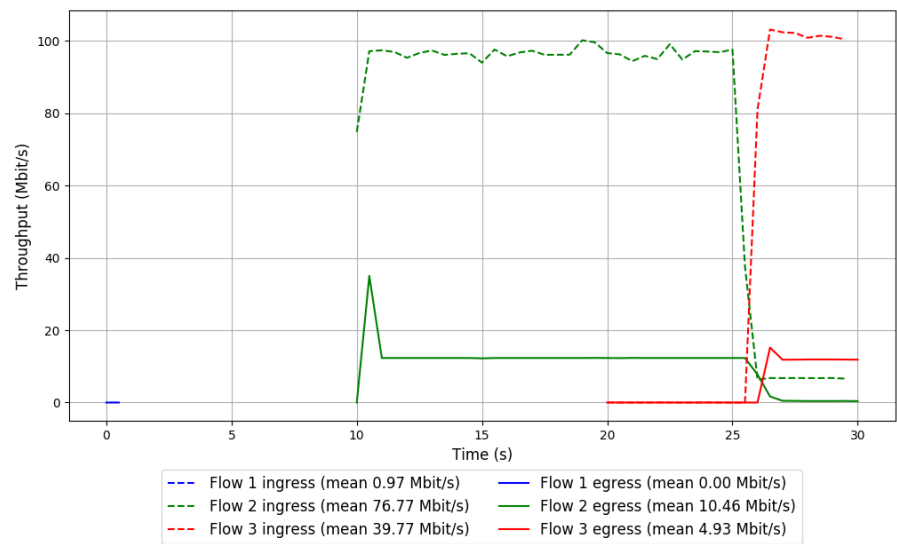


Run 3: Statistics of TaoVA-100x

Start at: 2018-10-09 21:49:14  
End at: 2018-10-09 21:49:44  
Local clock offset: 0.494 ms  
Remote clock offset: -4.337 ms

# Below is generated by plot.py at 2018-10-09 22:46:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.59 Mbit/s  
95th percentile per-packet one-way delay: 7.579 ms  
Loss rate: 86.65%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 7.257 ms  
Loss rate: 95.92%  
-- Flow 2:  
Average throughput: 10.46 Mbit/s  
95th percentile per-packet one-way delay: 7.517 ms  
Loss rate: 86.41%  
-- Flow 3:  
Average throughput: 4.93 Mbit/s  
95th percentile per-packet one-way delay: 9.503 ms  
Loss rate: 87.59%

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



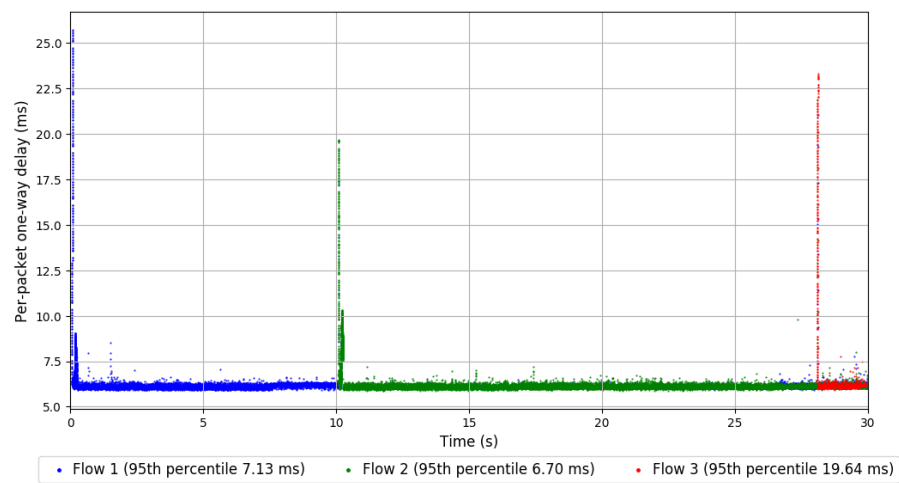
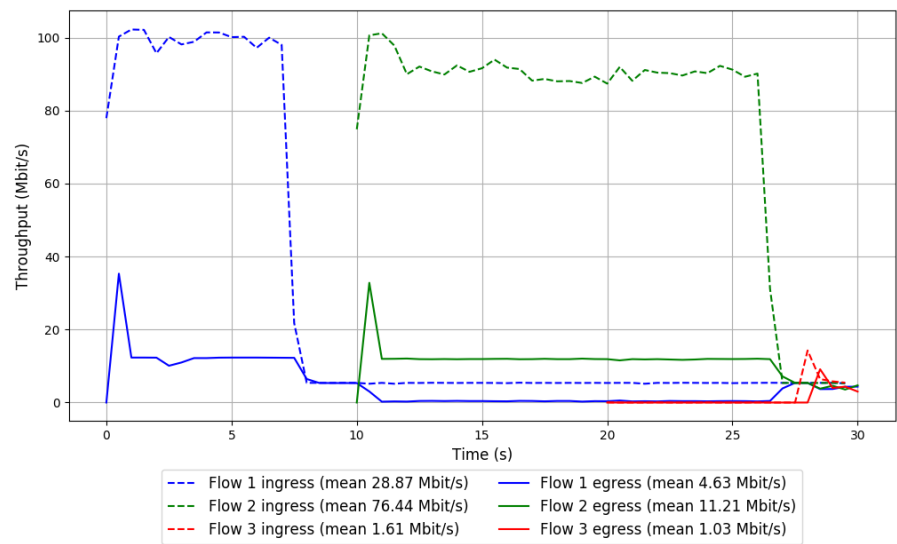


Run 4: Statistics of TaoVA-100x

Start at: 2018-10-09 22:10:29  
End at: 2018-10-09 22:10:59  
Local clock offset: 0.405 ms  
Remote clock offset: -4.492 ms

# Below is generated by plot.py at 2018-10-09 22:46:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.44 Mbit/s  
95th percentile per-packet one-way delay: 7.108 ms  
Loss rate: 84.51%  
-- Flow 1:  
Average throughput: 4.63 Mbit/s  
95th percentile per-packet one-way delay: 7.131 ms  
Loss rate: 83.97%  
-- Flow 2:  
Average throughput: 11.21 Mbit/s  
95th percentile per-packet one-way delay: 6.704 ms  
Loss rate: 85.33%  
-- Flow 3:  
Average throughput: 1.03 Mbit/s  
95th percentile per-packet one-way delay: 19.643 ms  
Loss rate: 36.25%

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

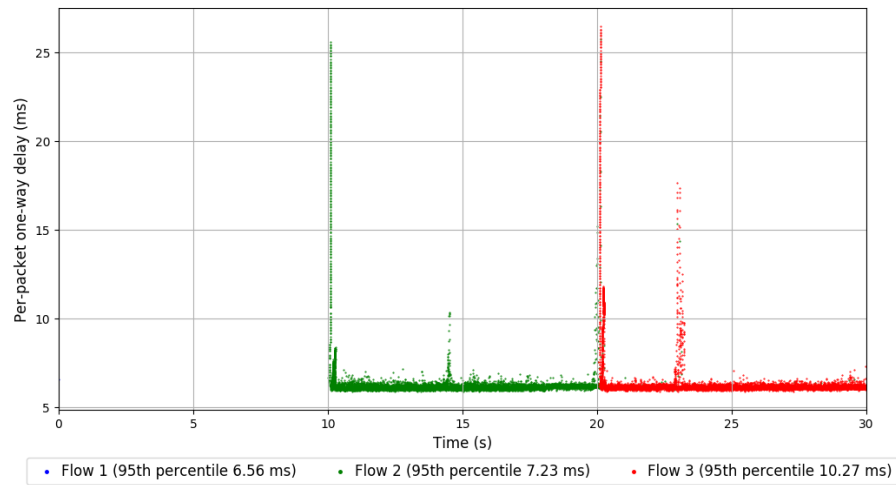
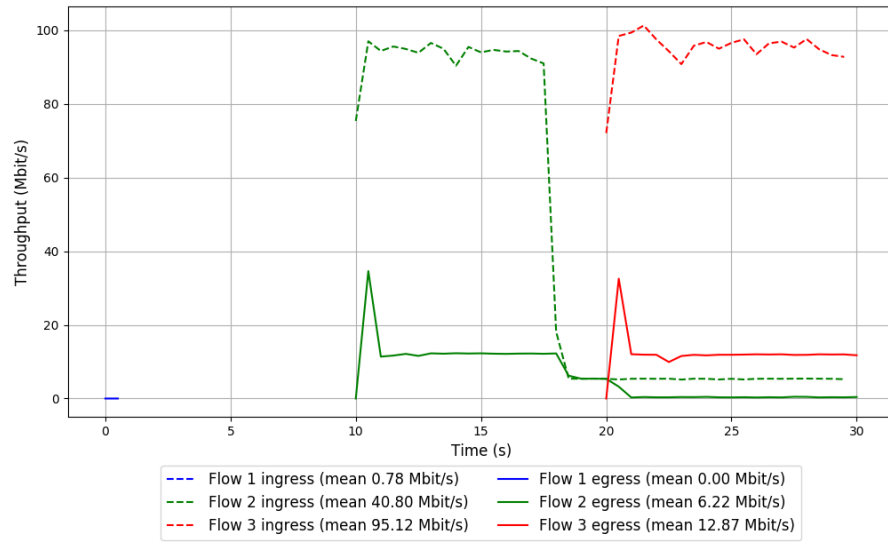


Run 5: Statistics of TaoVA-100x

Start at: 2018-10-09 22:31:44  
End at: 2018-10-09 22:32:14  
Local clock offset: 0.21 ms  
Remote clock offset: -4.689 ms

# Below is generated by plot.py at 2018-10-09 22:46:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.42 Mbit/s  
95th percentile per-packet one-way delay: 8.082 ms  
Loss rate: 85.68%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 6.564 ms  
Loss rate: 95.92%  
-- Flow 2:  
Average throughput: 6.22 Mbit/s  
95th percentile per-packet one-way delay: 7.230 ms  
Loss rate: 84.77%  
-- Flow 3:  
Average throughput: 12.87 Mbit/s  
95th percentile per-packet one-way delay: 10.269 ms  
Loss rate: 86.47%

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

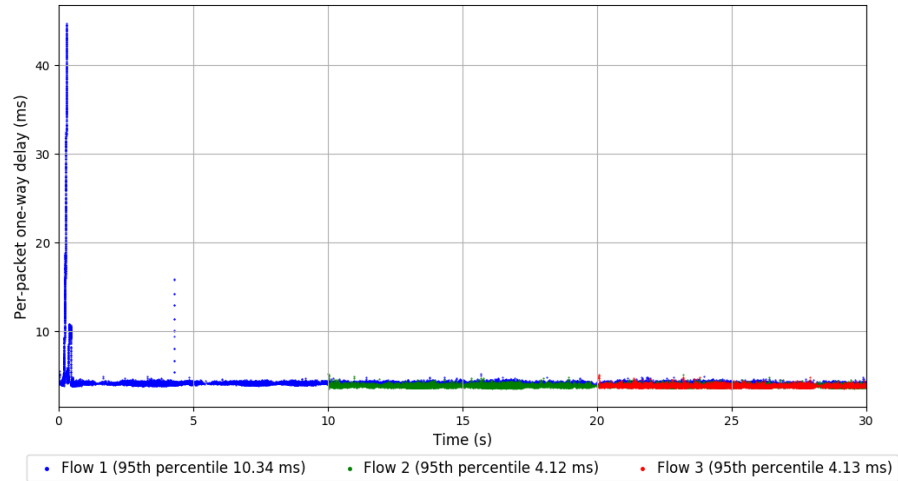
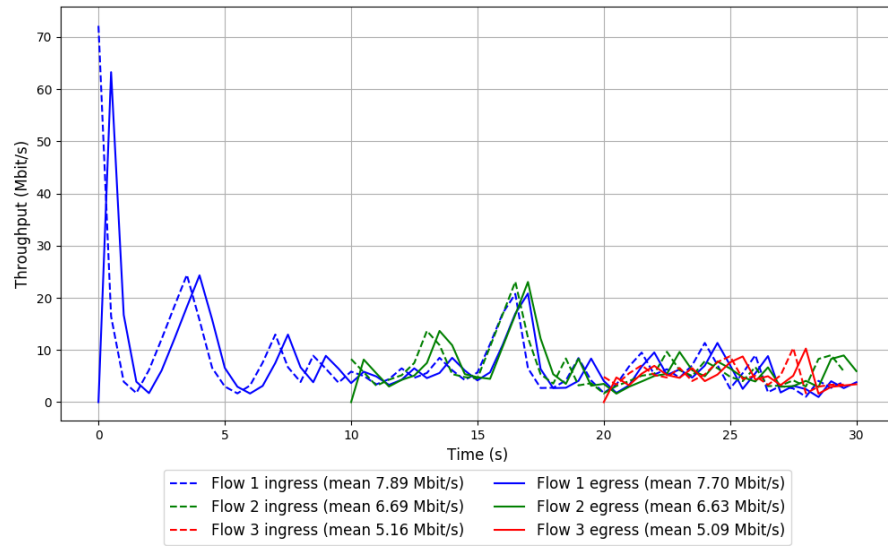


Run 1: Statistics of TCP Vegas

Start at: 2018-10-09 21:08:12  
End at: 2018-10-09 21:08:42  
Local clock offset: 2.181 ms  
Remote clock offset: -5.094 ms

# Below is generated by plot.py at 2018-10-09 22:46:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.81 Mbit/s  
95th percentile per-packet one-way delay: 5.159 ms  
Loss rate: 1.77%  
-- Flow 1:  
Average throughput: 7.70 Mbit/s  
95th percentile per-packet one-way delay: 10.344 ms  
Loss rate: 2.37%  
-- Flow 2:  
Average throughput: 6.63 Mbit/s  
95th percentile per-packet one-way delay: 4.118 ms  
Loss rate: 0.92%  
-- Flow 3:  
Average throughput: 5.09 Mbit/s  
95th percentile per-packet one-way delay: 4.131 ms  
Loss rate: 1.21%

# Run 1: Report of TCP Vegas — Data Link

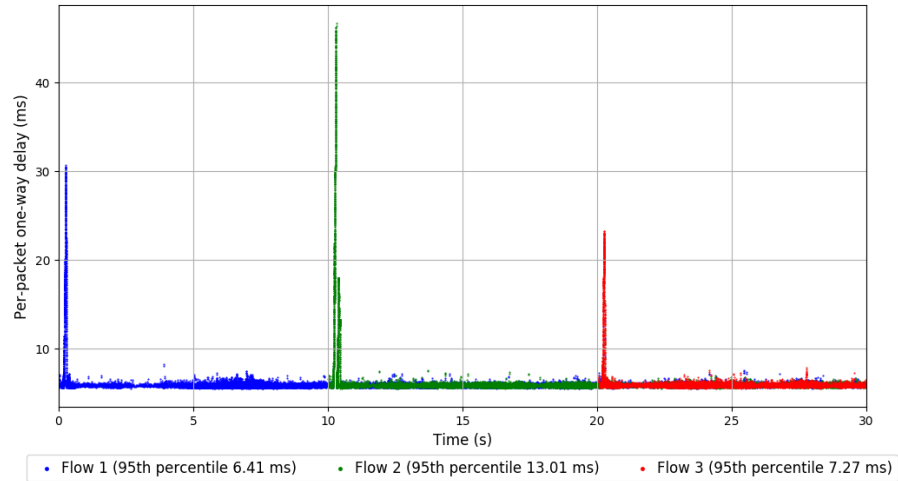
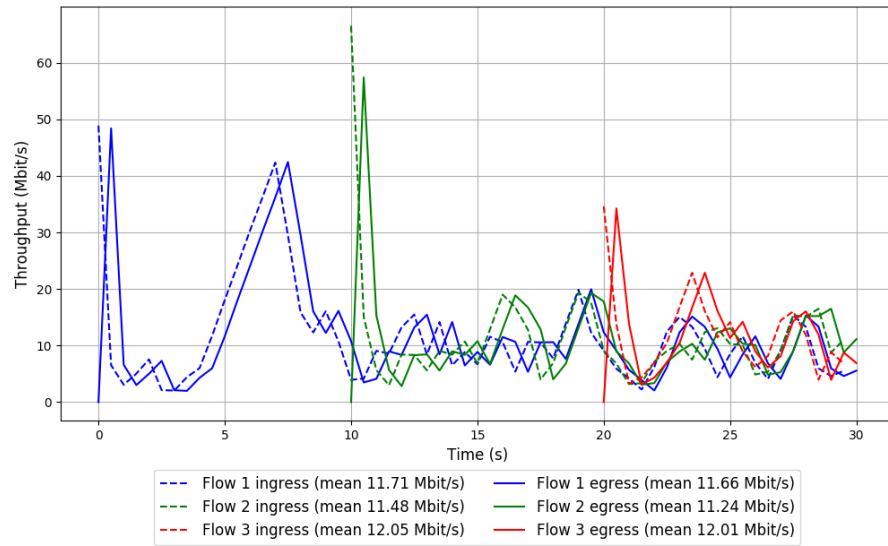


Run 2: Statistics of TCP Vegas

Start at: 2018-10-09 21:29:23  
End at: 2018-10-09 21:29:53  
Local clock offset: 1.351 ms  
Remote clock offset: -4.468 ms

# Below is generated by plot.py at 2018-10-09 22:46:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.14 Mbit/s  
95th percentile per-packet one-way delay: 7.550 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 11.66 Mbit/s  
95th percentile per-packet one-way delay: 6.411 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 11.24 Mbit/s  
95th percentile per-packet one-way delay: 13.013 ms  
Loss rate: 2.13%  
-- Flow 3:  
Average throughput: 12.01 Mbit/s  
95th percentile per-packet one-way delay: 7.269 ms  
Loss rate: 0.32%

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





Run 3: Statistics of TCP Vegas

Start at: 2018-10-09 21:50:22

End at: 2018-10-09 21:50:52

Local clock offset: 0.62 ms

Remote clock offset: -5.52 ms

# Below is generated by plot.py at 2018-10-09 22:46:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 34.64 Mbit/s

95th percentile per-packet one-way delay: 18.204 ms

Loss rate: 2.45%

-- Flow 1:

Average throughput: 17.63 Mbit/s

95th percentile per-packet one-way delay: 11.345 ms

Loss rate: 2.49%

-- Flow 2:

Average throughput: 14.34 Mbit/s

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

Loss rate: 2.63%

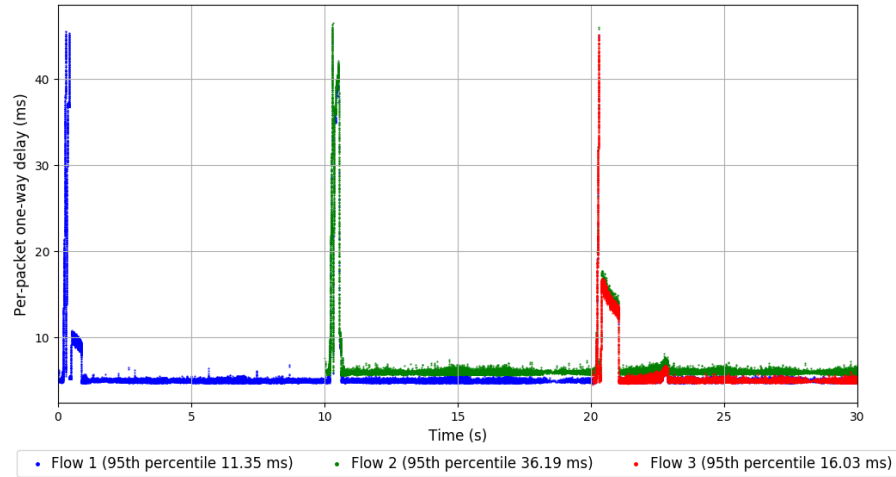
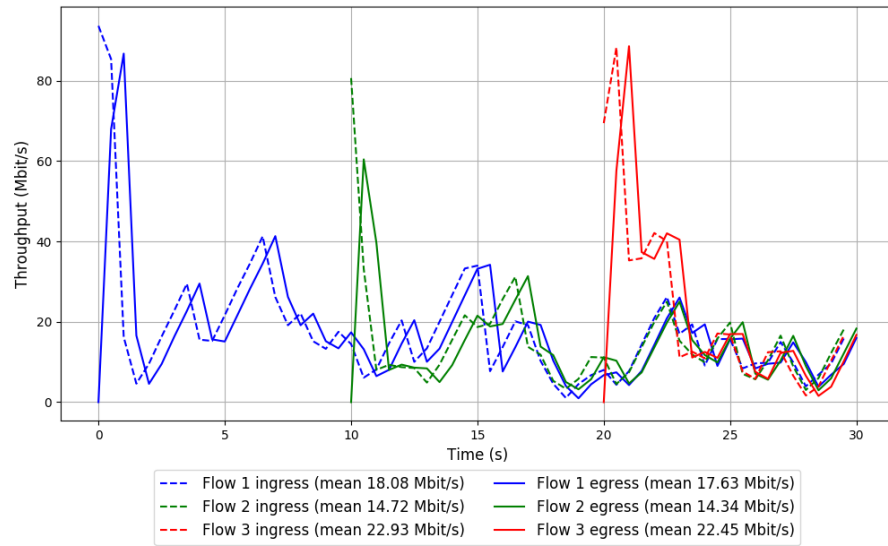
-- Flow 3:

Average throughput: 22.45 Mbit/s

95th percentile per-packet one-way delay: 16.032 ms

Loss rate: 2.10%

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

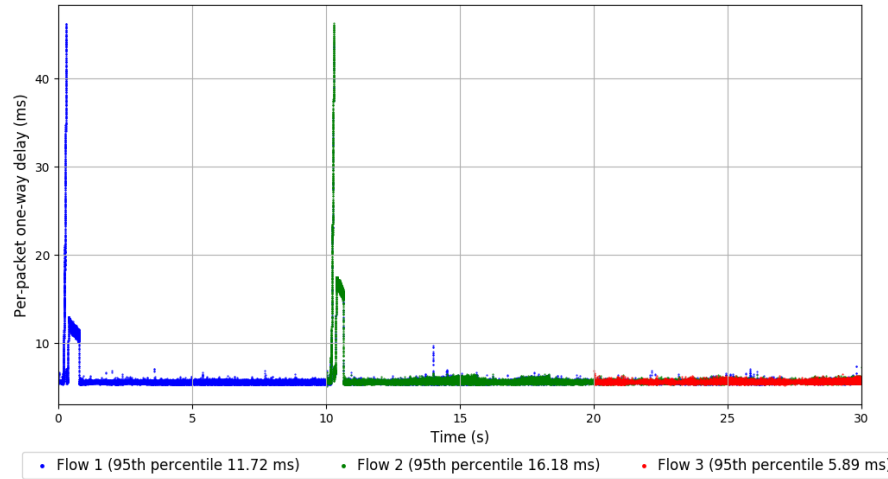
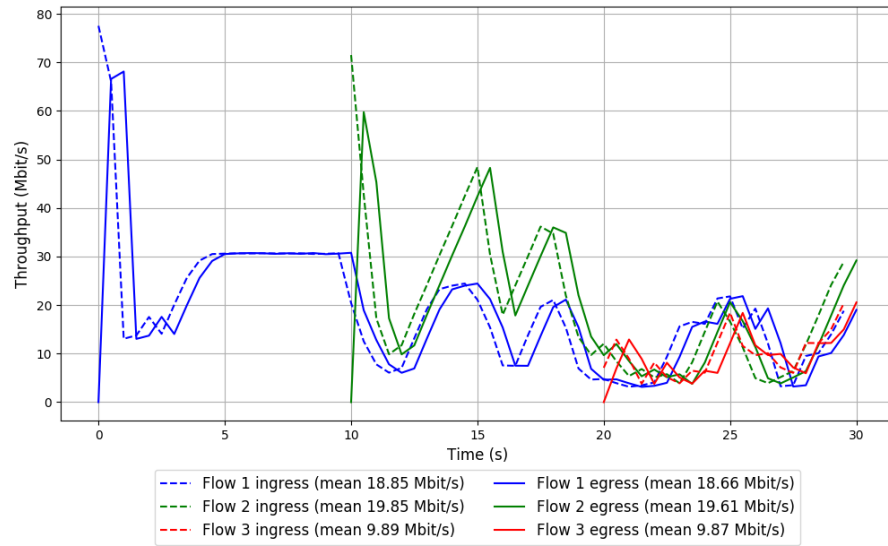


Run 4: Statistics of TCP Vegas

Start at: 2018-10-09 22:11:37  
End at: 2018-10-09 22:12:07  
Local clock offset: 0.541 ms  
Remote clock offset: -4.962 ms

# Below is generated by plot.py at 2018-10-09 22:46:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 35.01 Mbit/s  
95th percentile per-packet one-way delay: 11.993 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 18.66 Mbit/s  
95th percentile per-packet one-way delay: 11.719 ms  
Loss rate: 0.98%  
-- Flow 2:  
Average throughput: 19.61 Mbit/s  
95th percentile per-packet one-way delay: 16.176 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 9.87 Mbit/s  
95th percentile per-packet one-way delay: 5.895 ms  
Loss rate: 0.22%

# Run 4: Report of TCP Vegas — Data Link

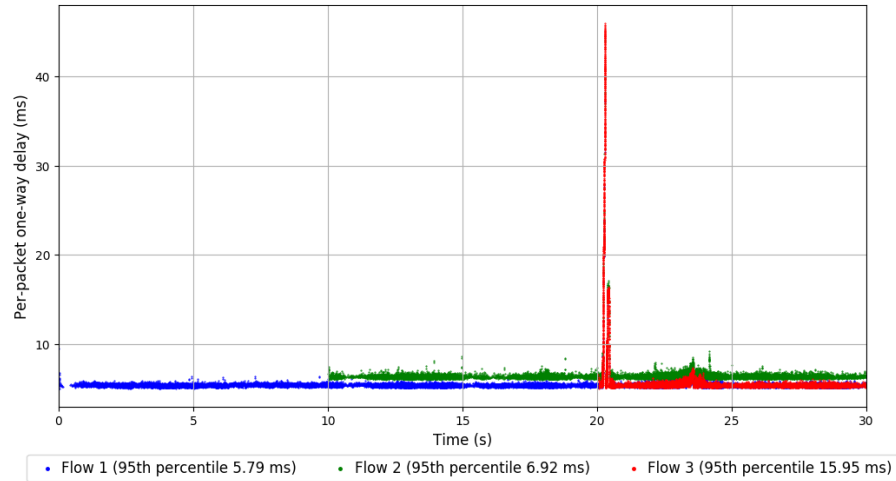
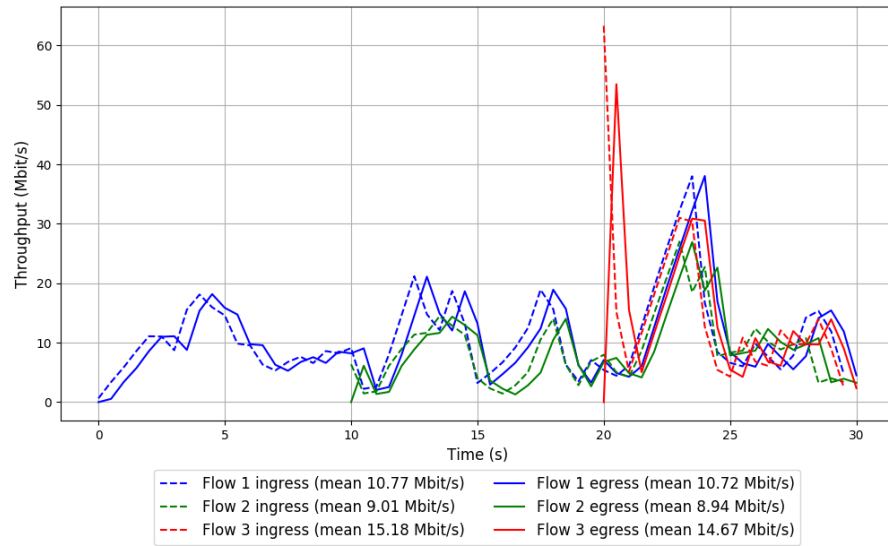


Run 5: Statistics of TCP Vegas

Start at: 2018-10-09 22:32:52  
End at: 2018-10-09 22:33:22  
Local clock offset: -0.53 ms  
Remote clock offset: -5.329 ms

# Below is generated by plot.py at 2018-10-09 22:46:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.55 Mbit/s  
95th percentile per-packet one-way delay: 6.817 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 10.72 Mbit/s  
95th percentile per-packet one-way delay: 5.793 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 8.94 Mbit/s  
95th percentile per-packet one-way delay: 6.915 ms  
Loss rate: 0.77%  
-- Flow 3:  
Average throughput: 14.67 Mbit/s  
95th percentile per-packet one-way delay: 15.954 ms  
Loss rate: 3.33%

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

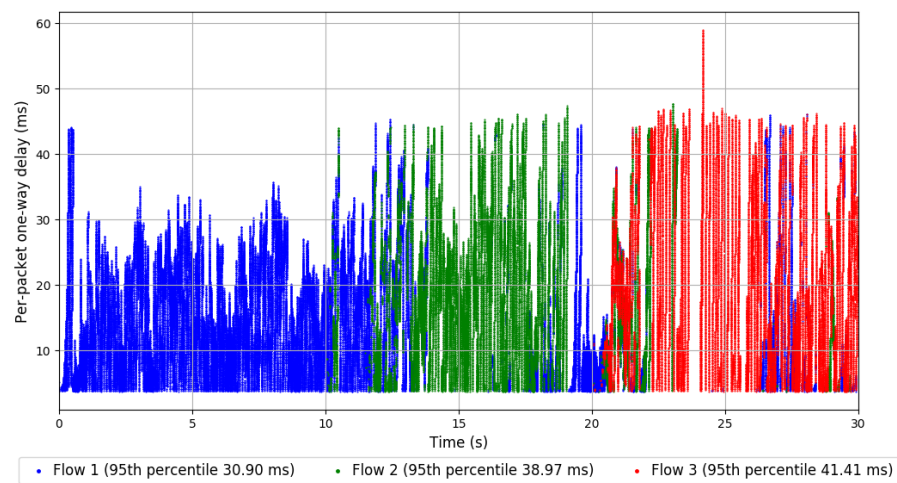
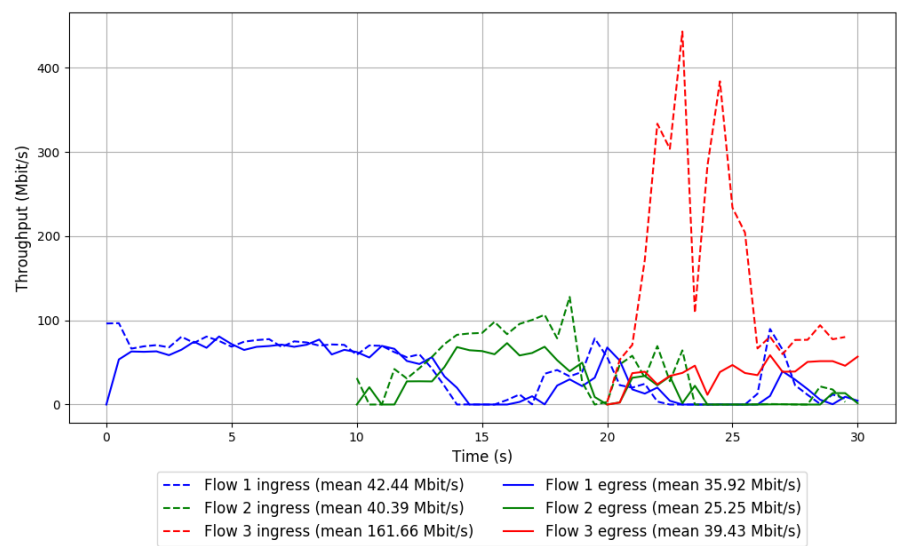


Run 1: Statistics of Verus

Start at: 2018-10-09 20:57:32  
End at: 2018-10-09 20:58:02  
Local clock offset: 1.045 ms  
Remote clock offset: -6.098 ms

# Below is generated by plot.py at 2018-10-09 22:47:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.56 Mbit/s  
95th percentile per-packet one-way delay: 37.509 ms  
Loss rate: 46.47%  
-- Flow 1:  
Average throughput: 35.92 Mbit/s  
95th percentile per-packet one-way delay: 30.896 ms  
Loss rate: 15.33%  
-- Flow 2:  
Average throughput: 25.25 Mbit/s  
95th percentile per-packet one-way delay: 38.967 ms  
Loss rate: 37.60%  
-- Flow 3:  
Average throughput: 39.43 Mbit/s  
95th percentile per-packet one-way delay: 41.413 ms  
Loss rate: 75.57%

Run 1: Report of Verus — Data Link



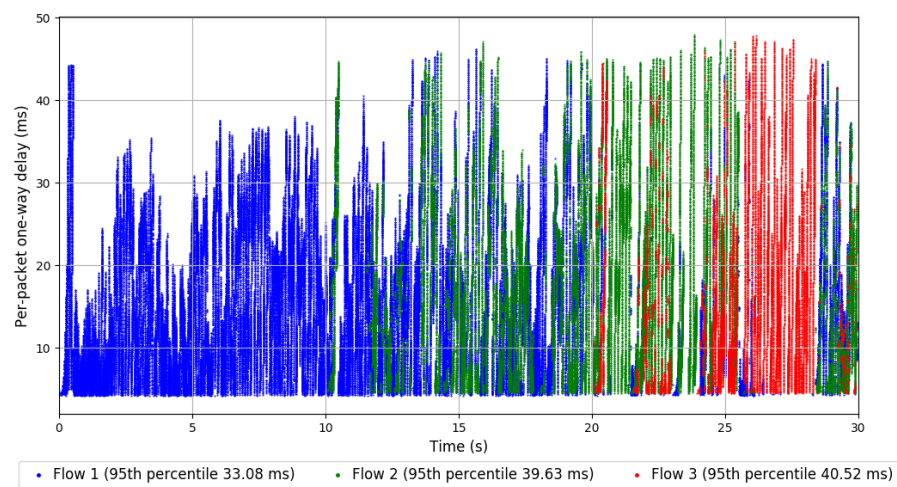
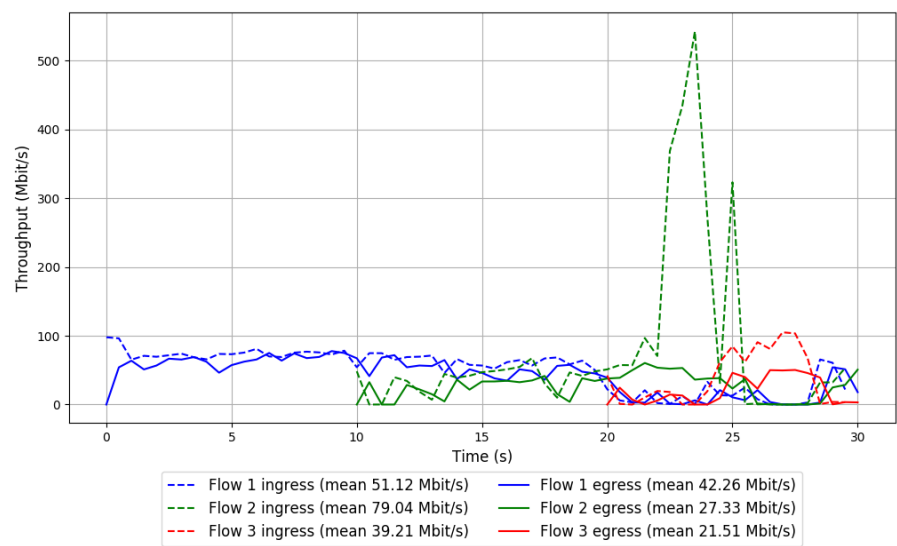


Run 2: Statistics of Verus

Start at: 2018-10-09 21:18:46  
End at: 2018-10-09 21:19:16  
Local clock offset: 2.481 ms  
Remote clock offset: -4.262 ms

# Below is generated by plot.py at 2018-10-09 22:47:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.54 Mbit/s  
95th percentile per-packet one-way delay: 36.459 ms  
Loss rate: 42.07%  
-- Flow 1:  
Average throughput: 42.26 Mbit/s  
95th percentile per-packet one-way delay: 33.077 ms  
Loss rate: 17.33%  
-- Flow 2:  
Average throughput: 27.33 Mbit/s  
95th percentile per-packet one-way delay: 39.631 ms  
Loss rate: 65.40%  
-- Flow 3:  
Average throughput: 21.51 Mbit/s  
95th percentile per-packet one-way delay: 40.521 ms  
Loss rate: 45.12%

Run 2: Report of Verus — Data Link

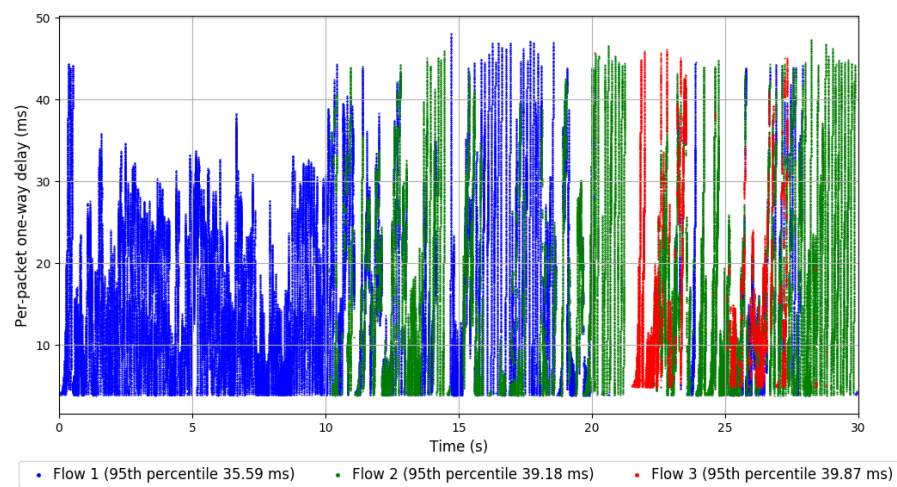
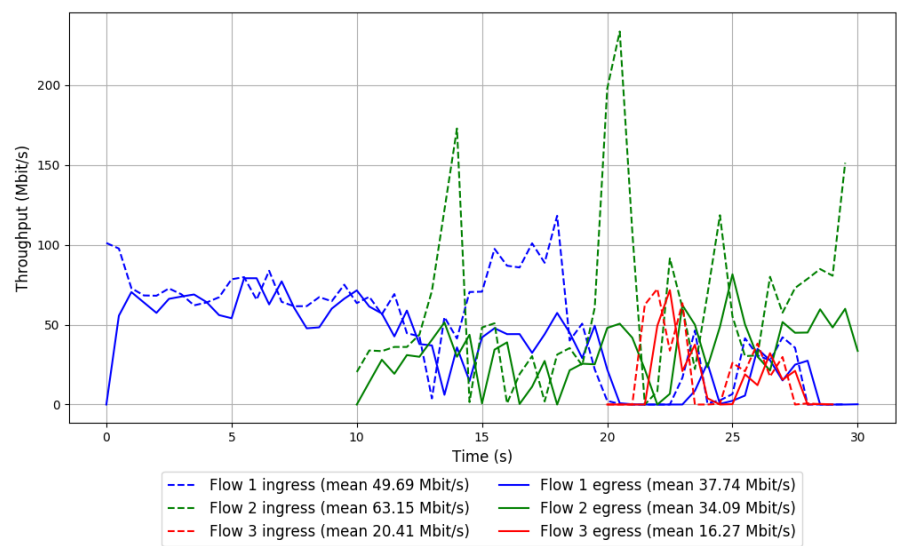


Run 3: Statistics of Verus

Start at: 2018-10-09 21:39:53  
End at: 2018-10-09 21:40:23  
Local clock offset: 2.771 ms  
Remote clock offset: -4.042 ms

# Below is generated by plot.py at 2018-10-09 22:47:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.08 Mbit/s  
95th percentile per-packet one-way delay: 37.548 ms  
Loss rate: 33.37%  
-- Flow 1:  
Average throughput: 37.74 Mbit/s  
95th percentile per-packet one-way delay: 35.587 ms  
Loss rate: 24.05%  
-- Flow 2:  
Average throughput: 34.09 Mbit/s  
95th percentile per-packet one-way delay: 39.183 ms  
Loss rate: 46.03%  
-- Flow 3:  
Average throughput: 16.27 Mbit/s  
95th percentile per-packet one-way delay: 39.872 ms  
Loss rate: 22.46%

Run 3: Report of Verus — Data Link

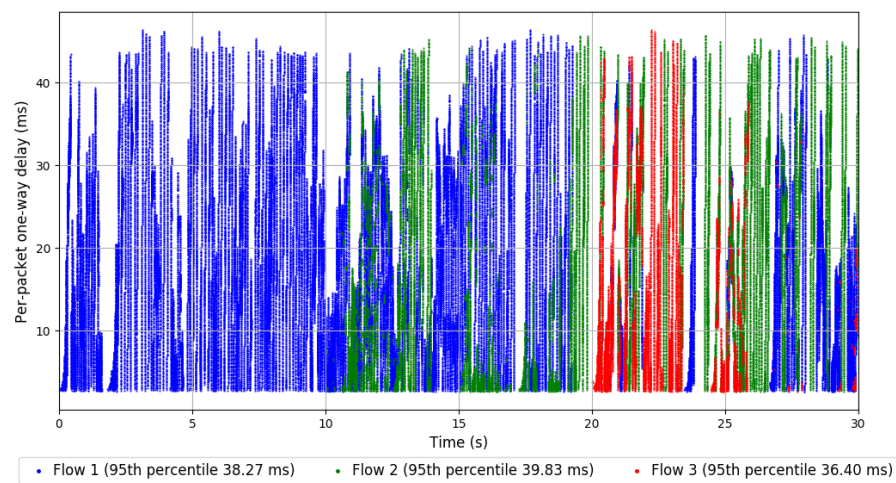
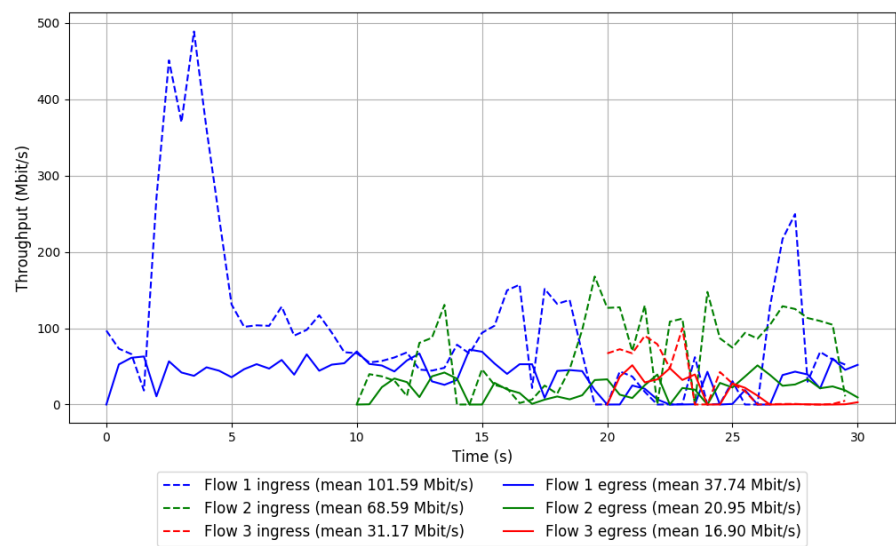


Run 4: Statistics of Verus

Start at: 2018-10-09 22:01:03  
End at: 2018-10-09 22:01:33  
Local clock offset: 2.023 ms  
Remote clock offset: -5.452 ms

# Below is generated by plot.py at 2018-10-09 22:47:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.24 Mbit/s  
95th percentile per-packet one-way delay: 38.709 ms  
Loss rate: 63.62%  
-- Flow 1:  
Average throughput: 37.74 Mbit/s  
95th percentile per-packet one-way delay: 38.275 ms  
Loss rate: 62.83%  
-- Flow 2:  
Average throughput: 20.95 Mbit/s  
95th percentile per-packet one-way delay: 39.833 ms  
Loss rate: 69.39%  
-- Flow 3:  
Average throughput: 16.90 Mbit/s  
95th percentile per-packet one-way delay: 36.401 ms  
Loss rate: 45.93%

Run 4: Report of Verus — Data Link

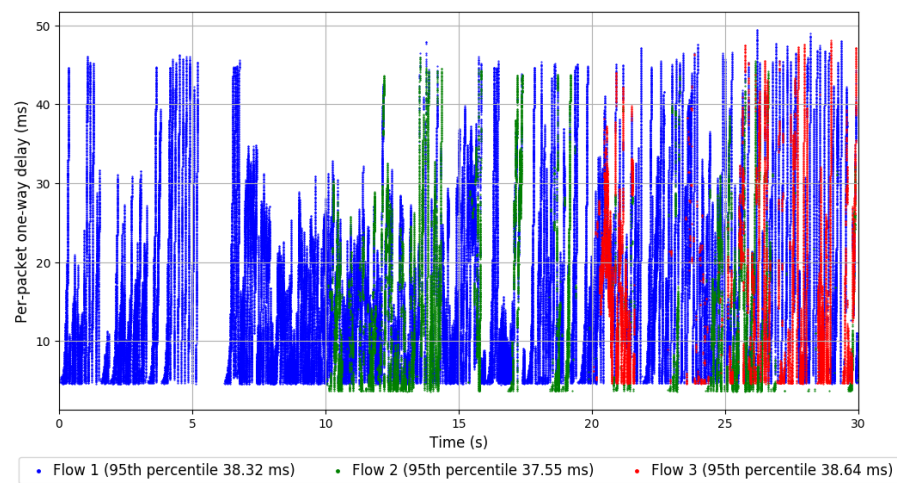
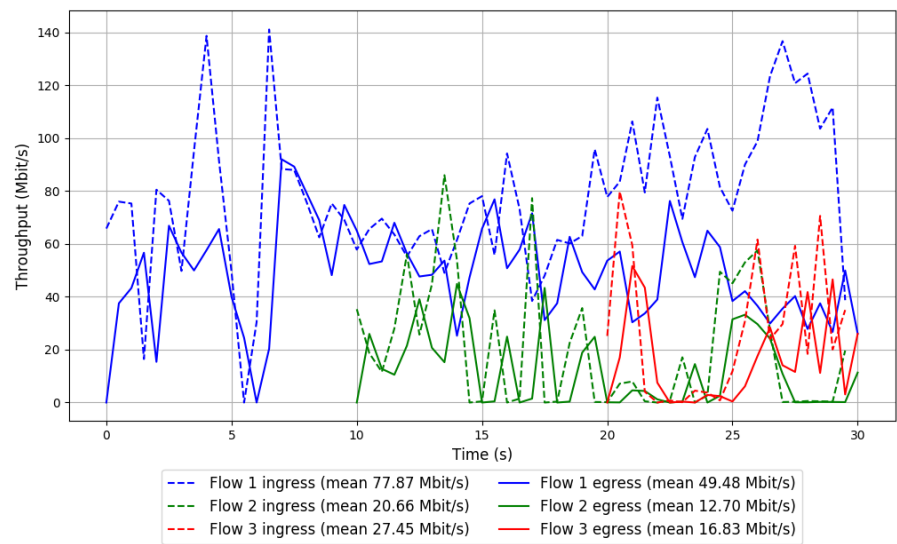


Run 5: Statistics of Verus

Start at: 2018-10-09 22:22:12  
End at: 2018-10-09 22:22:42  
Local clock offset: 1.426 ms  
Remote clock offset: -4.561 ms

# Below is generated by plot.py at 2018-10-09 22:47:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.48 Mbit/s  
95th percentile per-packet one-way delay: 38.267 ms  
Loss rate: 36.91%  
-- Flow 1:  
Average throughput: 49.48 Mbit/s  
95th percentile per-packet one-way delay: 38.319 ms  
Loss rate: 36.45%  
-- Flow 2:  
Average throughput: 12.70 Mbit/s  
95th percentile per-packet one-way delay: 37.552 ms  
Loss rate: 38.51%  
-- Flow 3:  
Average throughput: 16.83 Mbit/s  
95th percentile per-packet one-way delay: 38.642 ms  
Loss rate: 38.46%

Run 5: Report of Verus — Data Link





Run 1: Statistics of PCC-Vivace

Start at: 2018-10-09 20:58:44

End at: 2018-10-09 20:59:14

Local clock offset: 2.402 ms

Remote clock offset: -6.66 ms

# Below is generated by plot.py at 2018-10-09 22:47:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.14 Mbit/s

95th percentile per-packet one-way delay: 2.839 ms

Loss rate: 5.21%

-- Flow 1:

Average throughput: 57.53 Mbit/s

95th percentile per-packet one-way delay: 2.769 ms

Loss rate: 5.30%

-- Flow 2:

Average throughput: 21.98 Mbit/s

95th percentile per-packet one-way delay: 3.013 ms

Loss rate: 5.09%

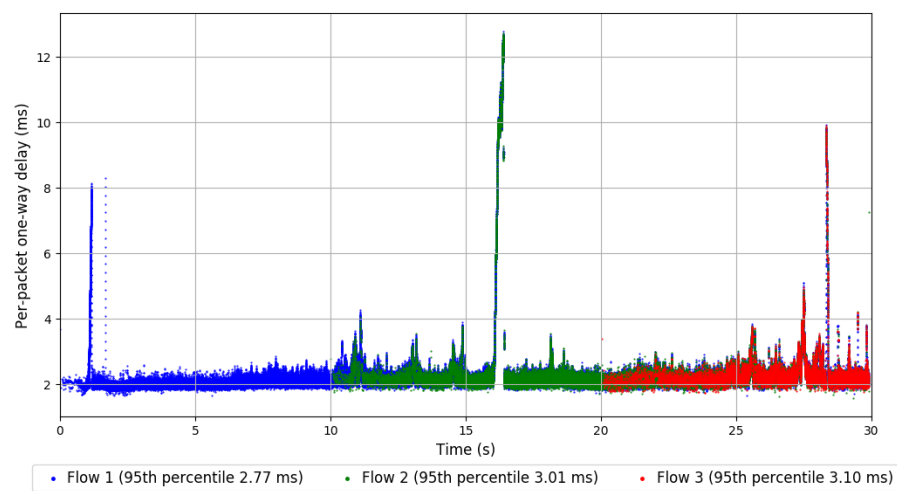
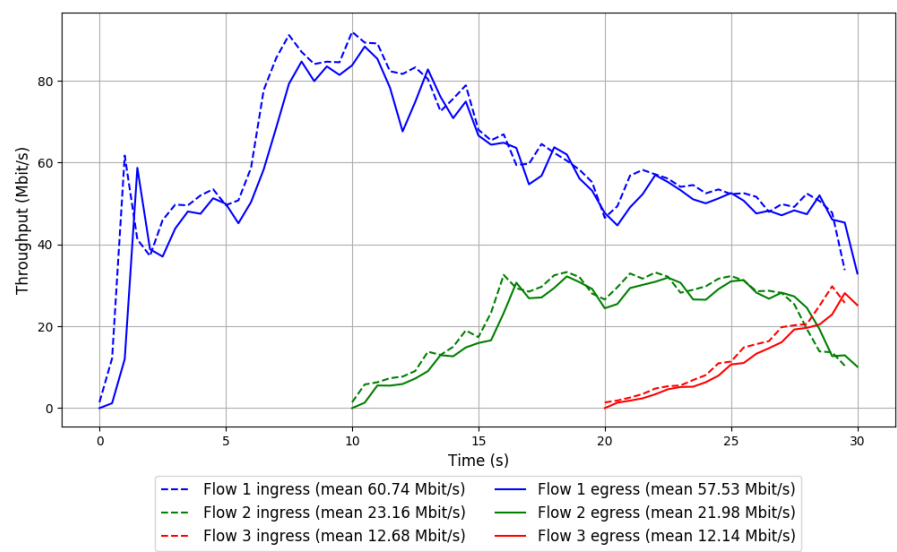
-- Flow 3:

Average throughput: 12.14 Mbit/s

95th percentile per-packet one-way delay: 3.104 ms

Loss rate: 4.29%

Run 1: Report of PCC-Vivace — Data Link

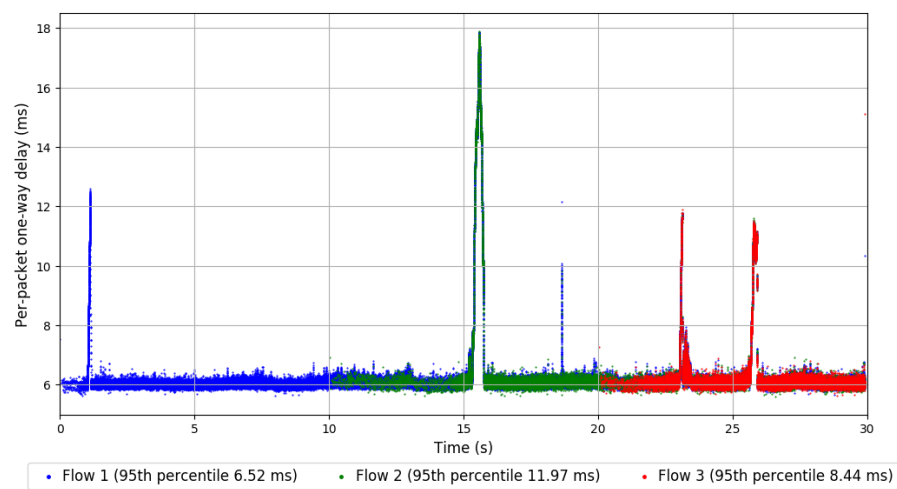
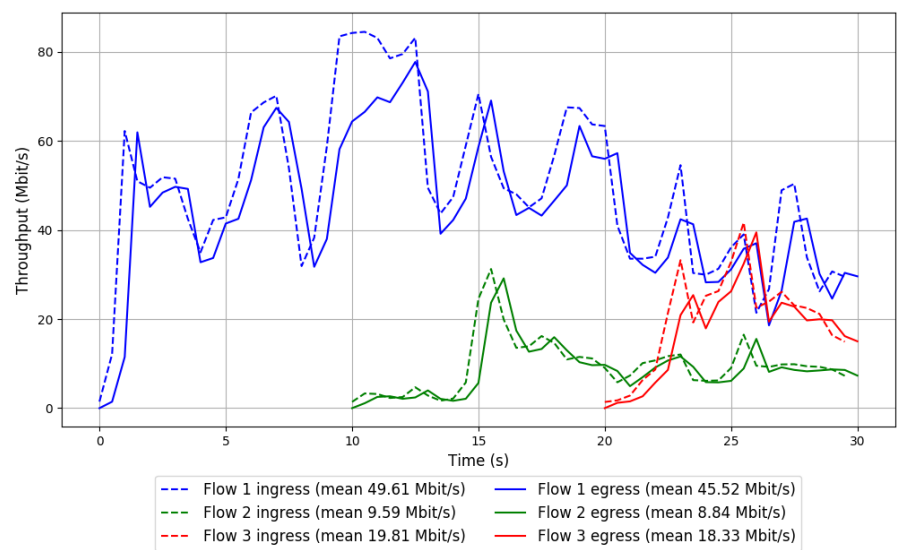


Run 2: Statistics of PCC-Vivace

Start at: 2018-10-09 21:20:04  
End at: 2018-10-09 21:20:34  
Local clock offset: 0.981 ms  
Remote clock offset: -4.461 ms

# Below is generated by plot.py at 2018-10-09 22:47:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.44 Mbit/s  
95th percentile per-packet one-way delay: 7.024 ms  
Loss rate: 8.11%  
-- Flow 1:  
Average throughput: 45.52 Mbit/s  
95th percentile per-packet one-way delay: 6.516 ms  
Loss rate: 8.24%  
-- Flow 2:  
Average throughput: 8.84 Mbit/s  
95th percentile per-packet one-way delay: 11.974 ms  
Loss rate: 7.84%  
-- Flow 3:  
Average throughput: 18.33 Mbit/s  
95th percentile per-packet one-way delay: 8.444 ms  
Loss rate: 7.42%

Run 2: Report of PCC-Vivace — Data Link

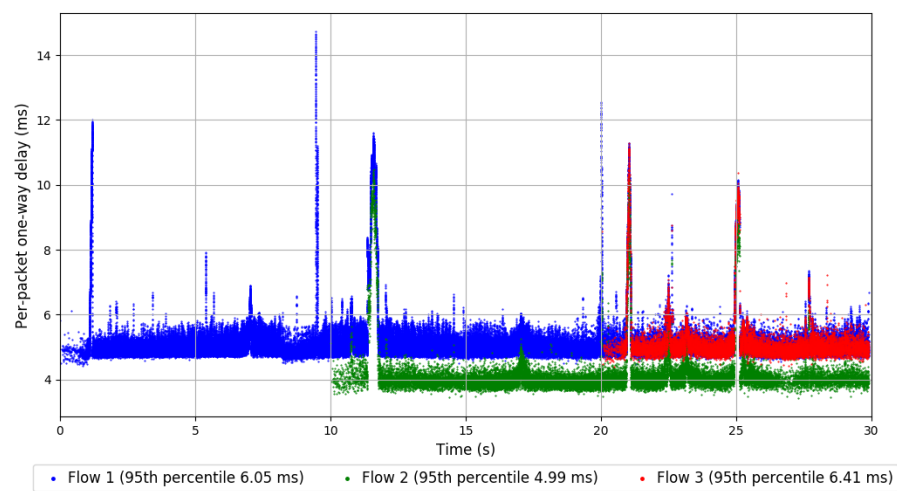
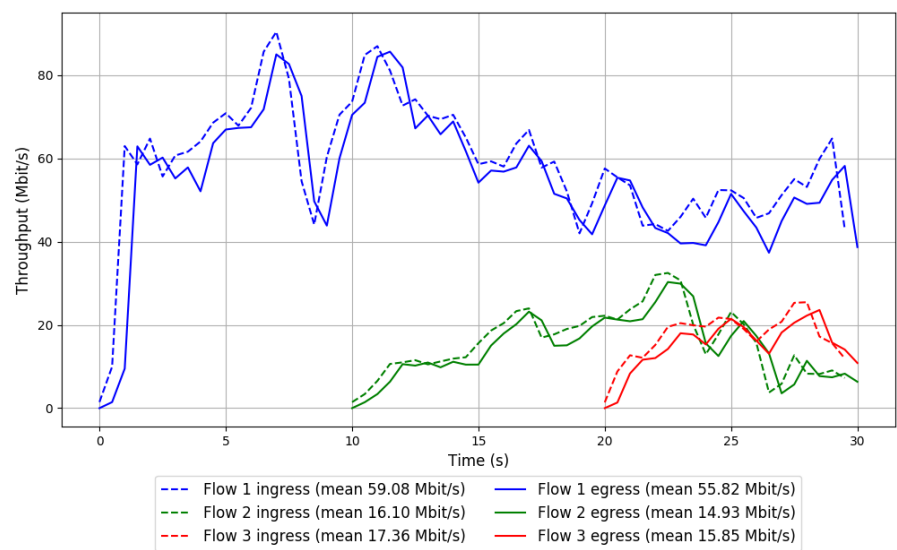


Run 3: Statistics of PCC-Vivace

Start at: 2018-10-09 21:41:05  
End at: 2018-10-09 21:41:35  
Local clock offset: 1.731 ms  
Remote clock offset: -5.309 ms

# Below is generated by plot.py at 2018-10-09 22:47:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.99 Mbit/s  
95th percentile per-packet one-way delay: 5.985 ms  
Loss rate: 6.01%  
-- Flow 1:  
Average throughput: 55.82 Mbit/s  
95th percentile per-packet one-way delay: 6.051 ms  
Loss rate: 5.51%  
-- Flow 2:  
Average throughput: 14.93 Mbit/s  
95th percentile per-packet one-way delay: 4.994 ms  
Loss rate: 7.31%  
-- Flow 3:  
Average throughput: 15.85 Mbit/s  
95th percentile per-packet one-way delay: 6.414 ms  
Loss rate: 8.73%

Run 3: Report of PCC-Vivace — Data Link

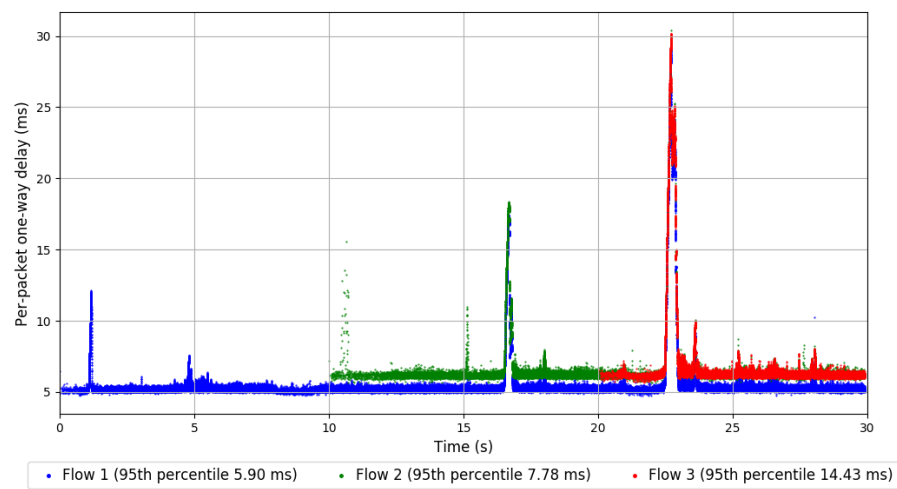
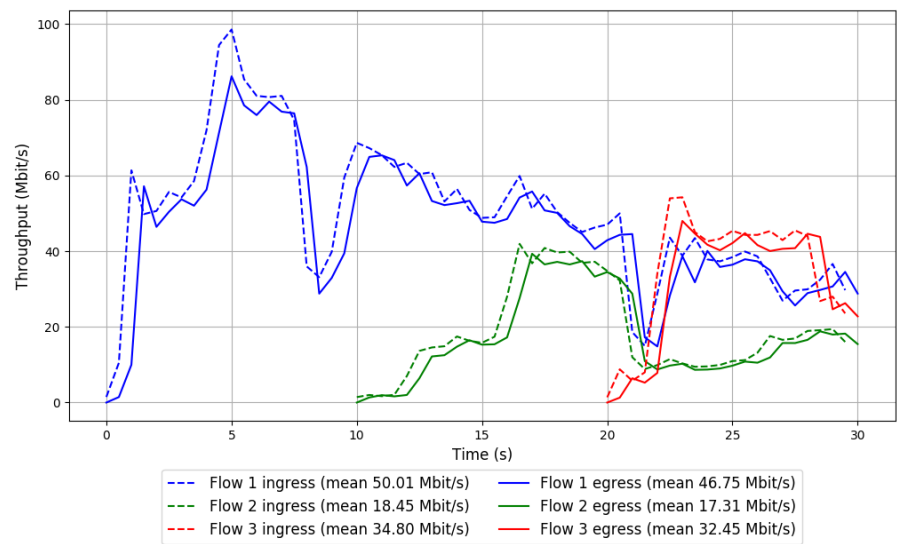


Run 4: Statistics of PCC-Vivace

Start at: 2018-10-09 22:02:16  
End at: 2018-10-09 22:02:46  
Local clock offset: 0.335 ms  
Remote clock offset: -4.892 ms

# Below is generated by plot.py at 2018-10-09 22:48:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.98 Mbit/s  
95th percentile per-packet one-way delay: 6.977 ms  
Loss rate: 6.51%  
-- Flow 1:  
Average throughput: 46.75 Mbit/s  
95th percentile per-packet one-way delay: 5.899 ms  
Loss rate: 6.52%  
-- Flow 2:  
Average throughput: 17.31 Mbit/s  
95th percentile per-packet one-way delay: 7.779 ms  
Loss rate: 6.19%  
-- Flow 3:  
Average throughput: 32.45 Mbit/s  
95th percentile per-packet one-way delay: 14.425 ms  
Loss rate: 6.78%

Run 4: Report of PCC-Vivace — Data Link



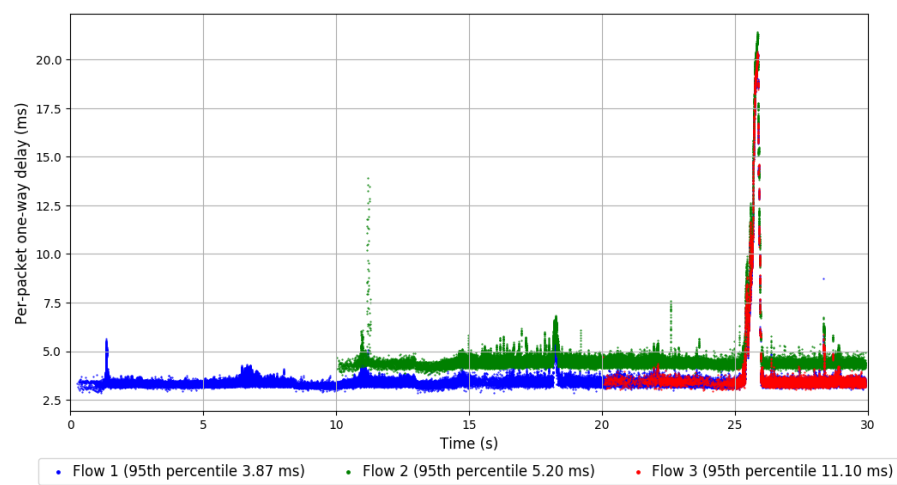
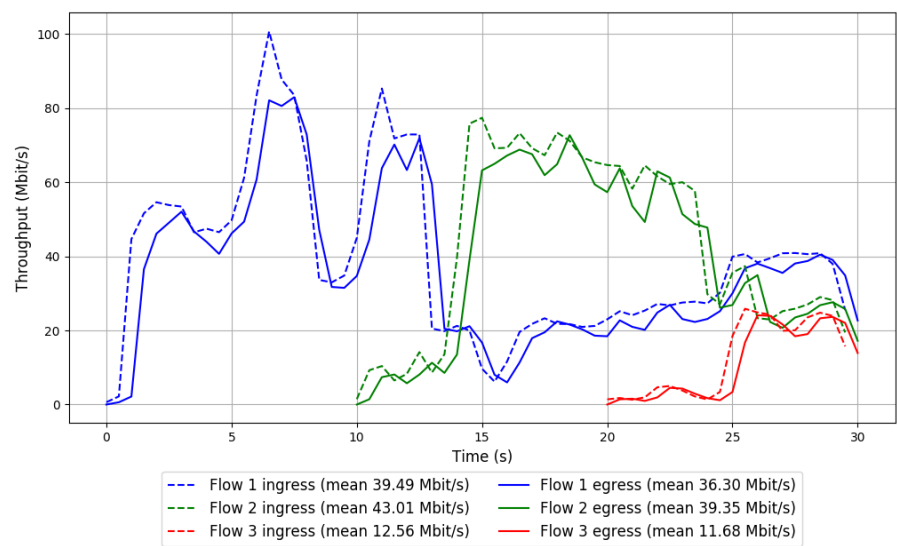


Run 5: Statistics of PCC-Vivace

Start at: 2018-10-09 22:23:25  
End at: 2018-10-09 22:23:55  
Local clock offset: 0.836 ms  
Remote clock offset: -5.672 ms

# Below is generated by plot.py at 2018-10-09 22:48:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.58 Mbit/s  
95th percentile per-packet one-way delay: 4.872 ms  
Loss rate: 8.62%  
-- Flow 1:  
Average throughput: 36.30 Mbit/s  
95th percentile per-packet one-way delay: 3.869 ms  
Loss rate: 8.85%  
-- Flow 2:  
Average throughput: 39.35 Mbit/s  
95th percentile per-packet one-way delay: 5.201 ms  
Loss rate: 8.52%  
-- Flow 3:  
Average throughput: 11.68 Mbit/s  
95th percentile per-packet one-way delay: 11.102 ms  
Loss rate: 7.08%

Run 5: Report of PCC-Vivace — Data Link

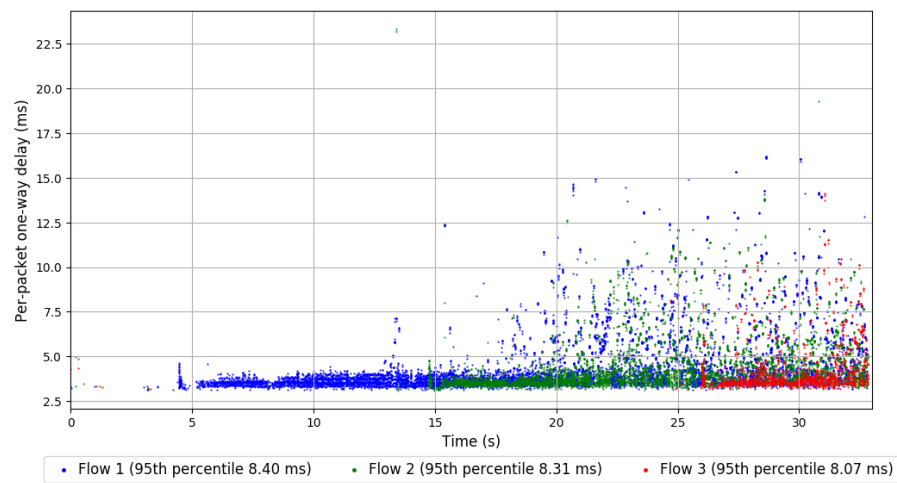
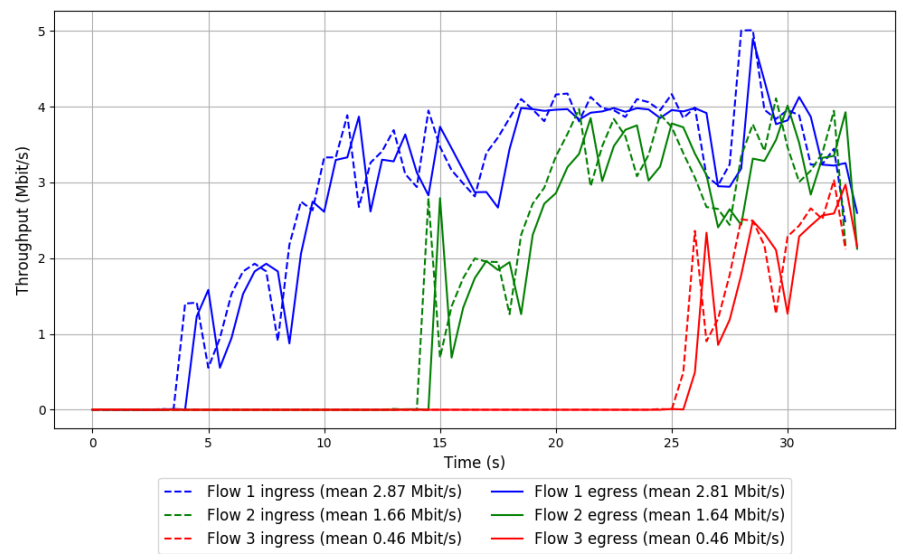


Run 1: Statistics of WebRTC media

Start at: 2018-10-09 20:59:58  
End at: 2018-10-09 21:00:28  
Local clock offset: 1.101 ms  
Remote clock offset: -6.502 ms

# Below is generated by plot.py at 2018-10-09 22:48:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.89 Mbit/s  
95th percentile per-packet one-way delay: 8.355 ms  
Loss rate: 1.78%  
-- Flow 1:  
Average throughput: 2.81 Mbit/s  
95th percentile per-packet one-way delay: 8.402 ms  
Loss rate: 1.96%  
-- Flow 2:  
Average throughput: 1.64 Mbit/s  
95th percentile per-packet one-way delay: 8.314 ms  
Loss rate: 1.63%  
-- Flow 3:  
Average throughput: 0.46 Mbit/s  
95th percentile per-packet one-way delay: 8.074 ms  
Loss rate: 1.24%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-10-09 21:21:15

End at: 2018-10-09 21:21:45

Local clock offset: 0.276 ms

Remote clock offset: -4.28 ms

# Below is generated by plot.py at 2018-10-09 22:48:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 10.408 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 10.310 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 10.459 ms

Loss rate: 0.04%

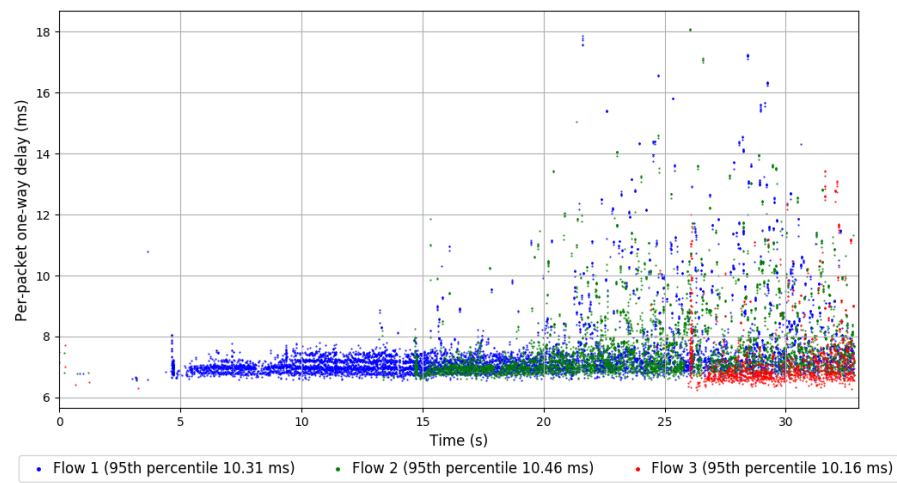
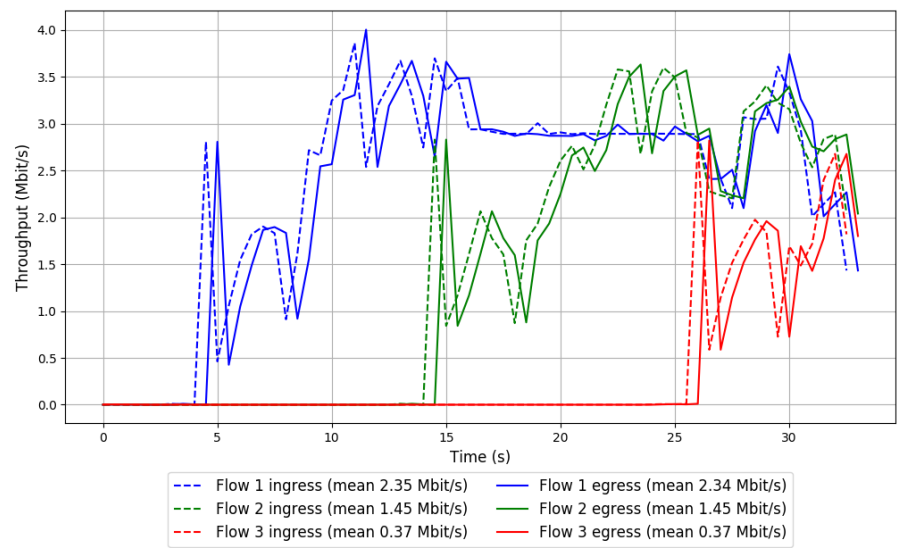
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 10.162 ms

Loss rate: 0.08%

Run 2: Report of WebRTC media — Data Link

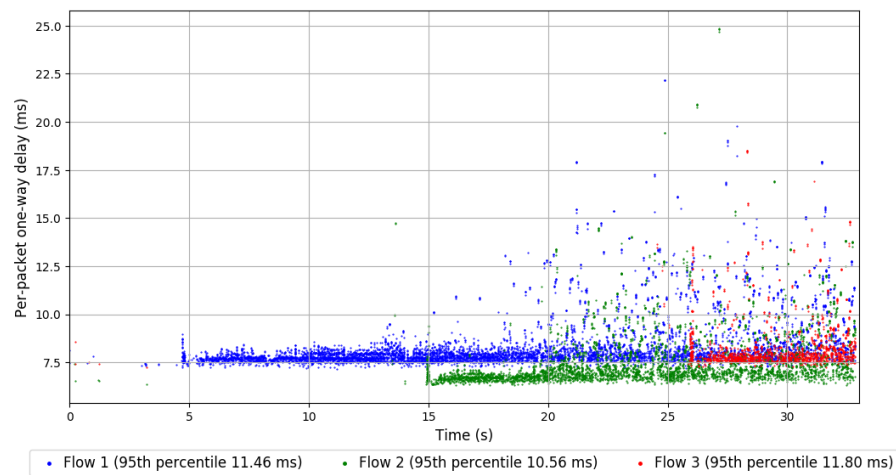
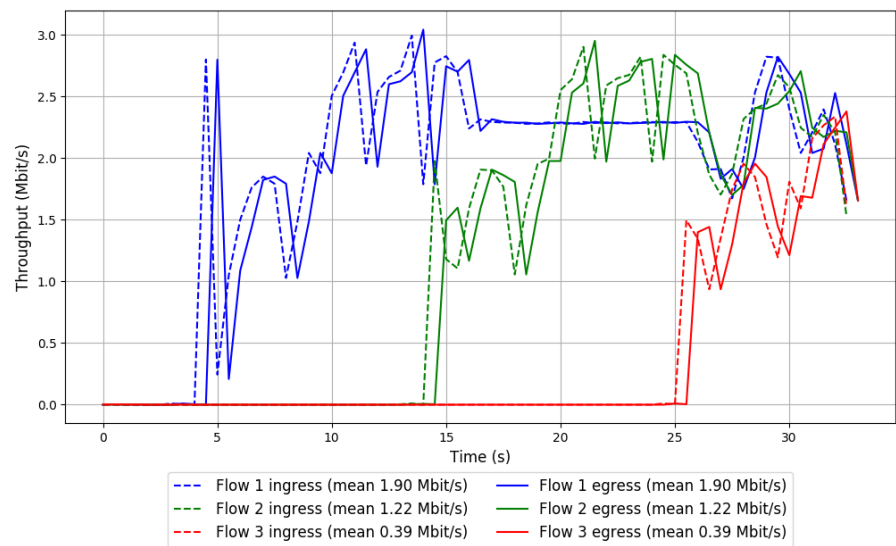


Run 3: Statistics of WebRTC media

Start at: 2018-10-09 21:42:17  
End at: 2018-10-09 21:42:47  
Local clock offset: -5.439 ms  
Remote clock offset: -9.674 ms

# Below is generated by plot.py at 2018-10-09 22:48:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.50 Mbit/s  
95th percentile per-packet one-way delay: 11.289 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.90 Mbit/s  
95th percentile per-packet one-way delay: 11.458 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.22 Mbit/s  
95th percentile per-packet one-way delay: 10.563 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.39 Mbit/s  
95th percentile per-packet one-way delay: 11.797 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



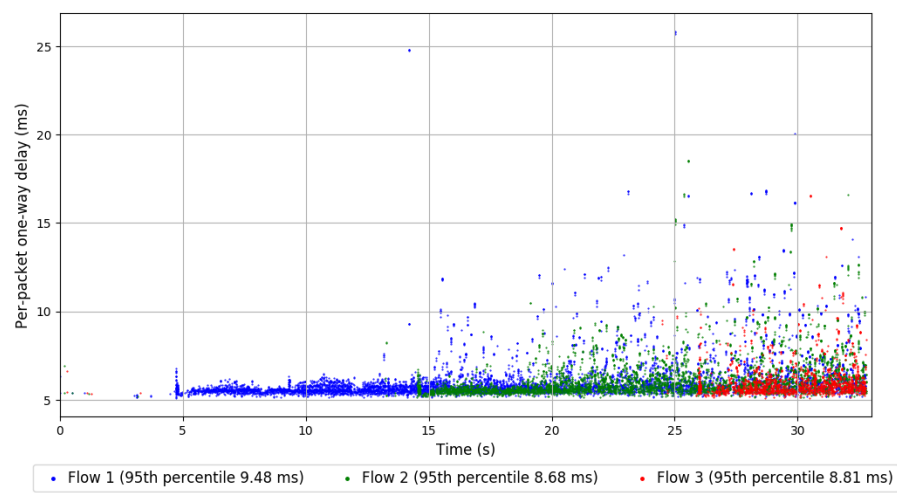
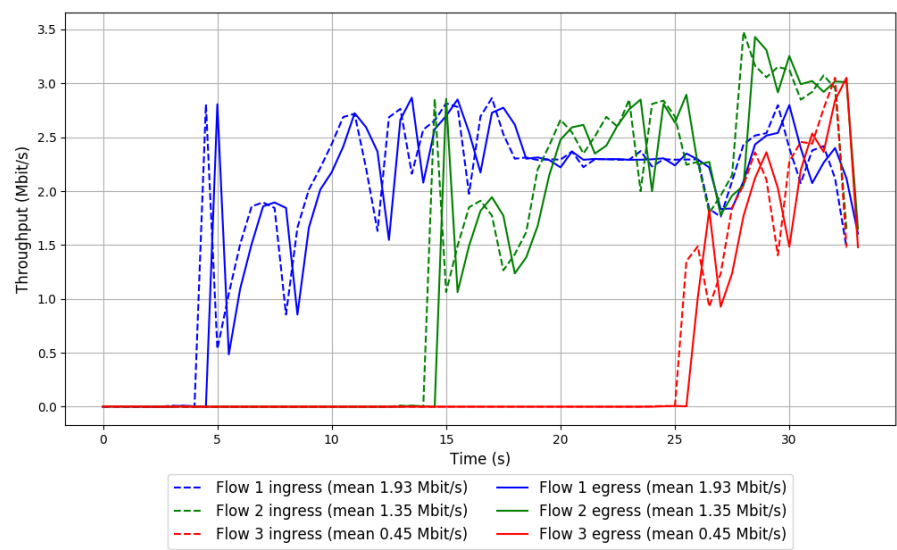


Run 4: Statistics of WebRTC media

Start at: 2018-10-09 22:03:29  
End at: 2018-10-09 22:03:59  
Local clock offset: 0.109 ms  
Remote clock offset: -4.695 ms

# Below is generated by plot.py at 2018-10-09 22:48:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.72 Mbit/s  
95th percentile per-packet one-way delay: 9.053 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 1.93 Mbit/s  
95th percentile per-packet one-way delay: 9.478 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.35 Mbit/s  
95th percentile per-packet one-way delay: 8.683 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 0.45 Mbit/s  
95th percentile per-packet one-way delay: 8.808 ms  
Loss rate: 0.05%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-10-09 22:24:39  
End at: 2018-10-09 22:25:09  
Local clock offset: 1.382 ms  
Remote clock offset: -4.628 ms

# Below is generated by plot.py at 2018-10-09 22:48:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.25 Mbit/s  
95th percentile per-packet one-way delay: 7.997 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 2.37 Mbit/s  
95th percentile per-packet one-way delay: 6.955 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 1.43 Mbit/s  
95th percentile per-packet one-way delay: 8.930 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 0.46 Mbit/s  
95th percentile per-packet one-way delay: 7.294 ms  
Loss rate: 2.64%

Run 5: Report of WebRTC media — Data Link

