

## Pantheon Report

Generated at 2018-10-10 06:26:18 (UTC).

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

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 **time.stanford.edu** and have been applied to correct the timestamps in logs.

### System info:

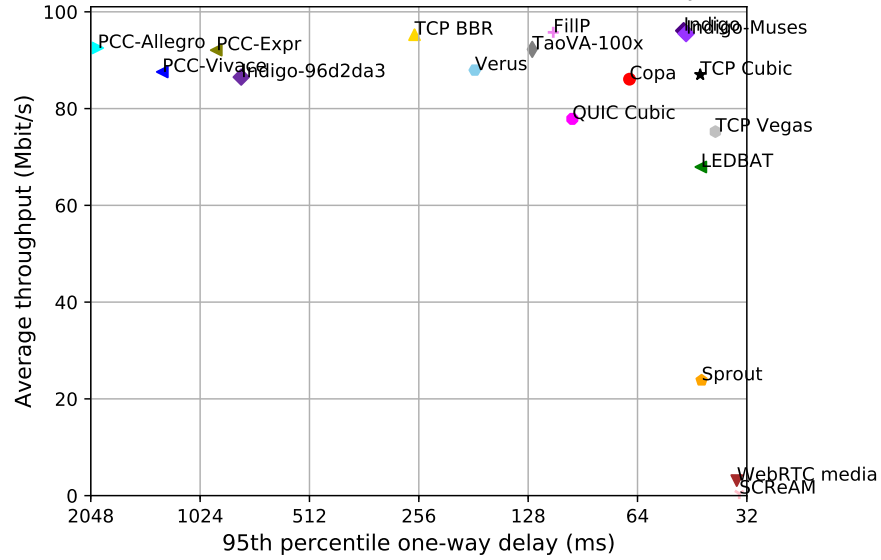
```
Linux 4.15.0-1023-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

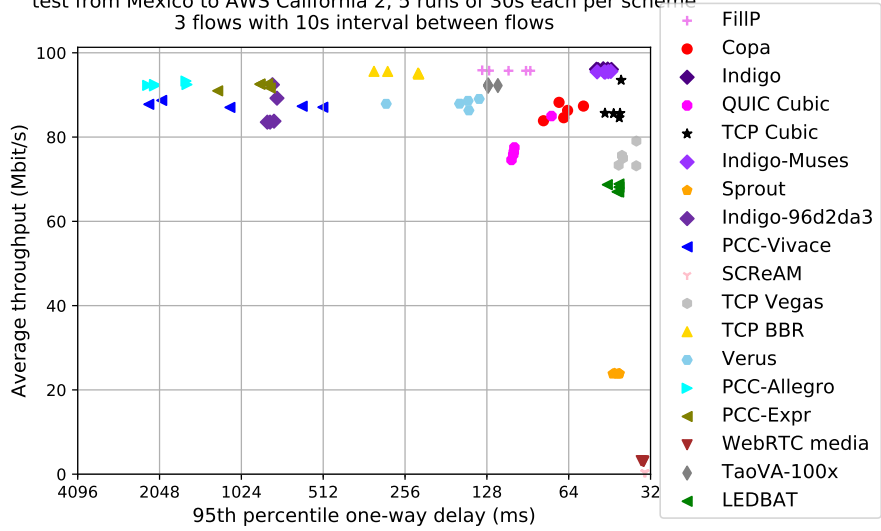
```
branch: muses @ 2e19c0464530faa92c63f8217c9971438a26a3be
third_party/fillp @ 5332fc9127c63565e13f4933b336c02d1aabdac6
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third\_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4  
third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



test from Mexico to AWS California 2, 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	58.01	37.46	37.27	189.63	247.81	467.66	0.79	1.41	3.10
Copa	5	52.69	36.23	27.98	94.39	44.71	47.50	0.18	0.26	0.79
TCP Cubic	5	49.91	39.00	33.65	45.57	41.29	47.12	0.16	0.29	0.69
FillP	5	57.65	38.57	37.76	91.52	115.16	144.72	0.80	0.81	1.12
Indigo	5	57.53	40.19	36.26	48.70	48.53	45.25	0.21	0.41	0.75
Indigo-96d2da3	5	51.98	35.77	32.59	754.09	817.27	756.88	3.21	4.27	7.10
LEDBAT	5	40.15	30.23	23.17	42.57	44.49	40.40	0.16	0.29	1.08
Indigo-Muses	5	59.33	36.18	36.71	46.51	47.58	48.34	0.14	0.29	0.73
PCC-Allegro	5	57.20	39.46	27.76	2002.64	957.37	413.03	17.23	10.29	4.43
PCC-Expr	5	57.16	39.77	25.82	868.06	698.17	102.32	31.58	8.17	1.29
QUIC Cubic	5	44.50	37.21	26.25	84.25	109.06	135.71	0.26	0.48	1.03
SCReAM	5	0.21	0.21	0.22	33.57	33.56	33.54	0.16	0.32	0.71
Sprout	5	12.07	11.95	11.69	42.48	42.80	42.65	0.20	0.30	0.72
TaoVA-100x	5	55.22	40.65	29.94	122.57	123.71	136.62	0.65	1.60	3.92
TCP Vegas	5	38.98	38.38	32.39	45.77	36.19	46.84	0.21	0.31	0.71
Verus	5	54.62	36.36	27.73	141.22	325.51	251.67	0.32	0.61	1.68
PCC-Vivace	5	57.27	33.08	25.32	1185.55	553.06	207.13	3.96	3.15	2.10
WebRTC media	5	1.74	0.98	0.39	34.08	34.14	34.09	0.09	0.21	0.93

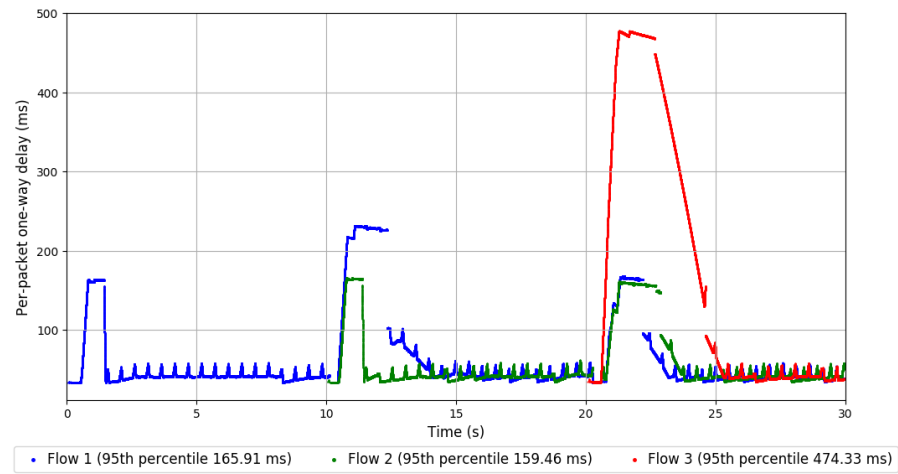
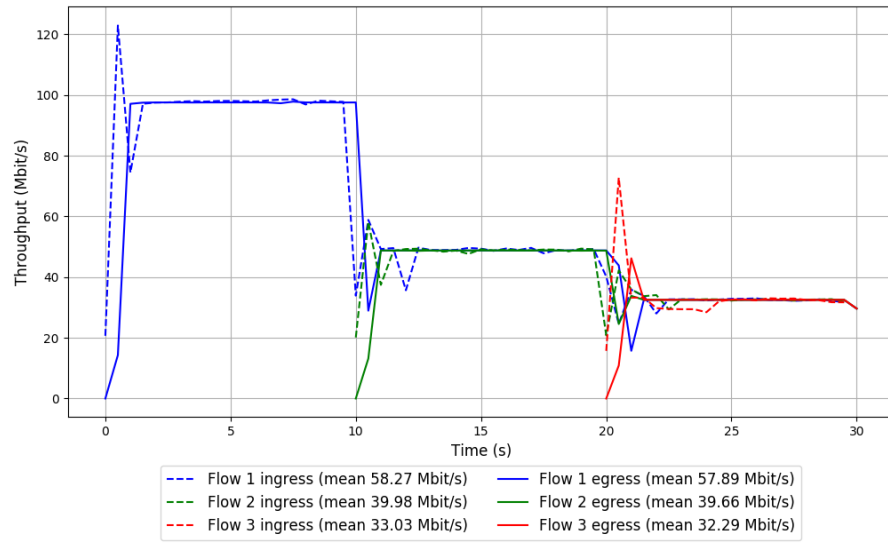


Run 1: Statistics of TCP BBR

Start at: 2018-10-10 04:24:47  
End at: 2018-10-10 04:25:17  
Local clock offset: 6.598 ms  
Remote clock offset: -4.375 ms

# Below is generated by plot.py at 2018-10-10 06:15:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.98 Mbit/s  
95th percentile per-packet one-way delay: 228.510 ms  
Loss rate: 1.17%  
-- Flow 1:  
Average throughput: 57.89 Mbit/s  
95th percentile per-packet one-way delay: 165.912 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 39.66 Mbit/s  
95th percentile per-packet one-way delay: 159.461 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 32.29 Mbit/s  
95th percentile per-packet one-way delay: 474.330 ms  
Loss rate: 2.86%

# Run 1: Report of TCP BBR — Data Link

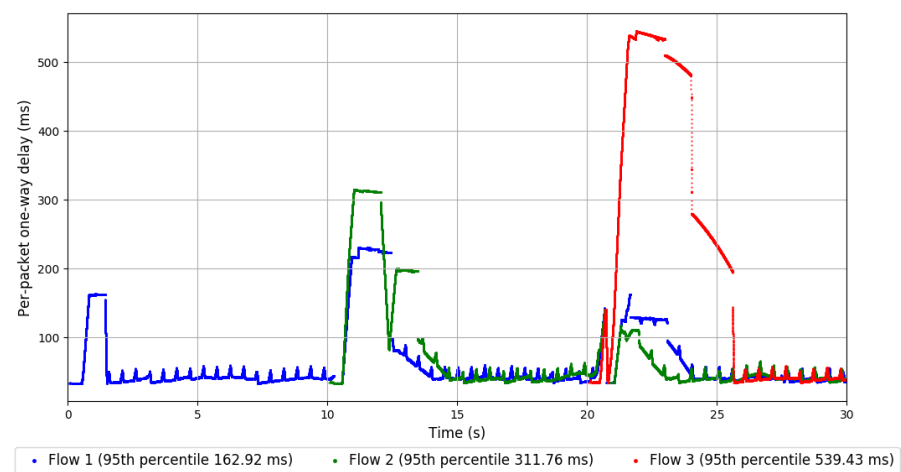
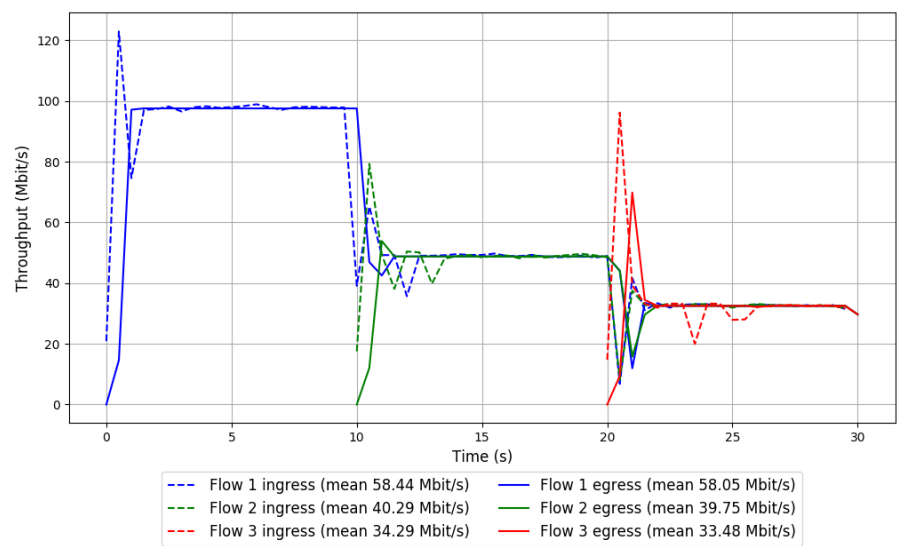


Run 2: Statistics of TCP BBR

Start at: 2018-10-10 04:49:43  
End at: 2018-10-10 04:50:13  
Local clock offset: 2.324 ms  
Remote clock offset: -3.609 ms

# Below is generated by plot.py at 2018-10-10 06:15:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.58 Mbit/s  
95th percentile per-packet one-way delay: 296.602 ms  
Loss rate: 1.34%  
-- Flow 1:  
Average throughput: 58.05 Mbit/s  
95th percentile per-packet one-way delay: 162.918 ms  
Loss rate: 0.87%  
-- Flow 2:  
Average throughput: 39.75 Mbit/s  
95th percentile per-packet one-way delay: 311.757 ms  
Loss rate: 1.65%  
-- Flow 3:  
Average throughput: 33.48 Mbit/s  
95th percentile per-packet one-way delay: 539.426 ms  
Loss rate: 2.99%

Run 2: Report of TCP BBR — Data Link

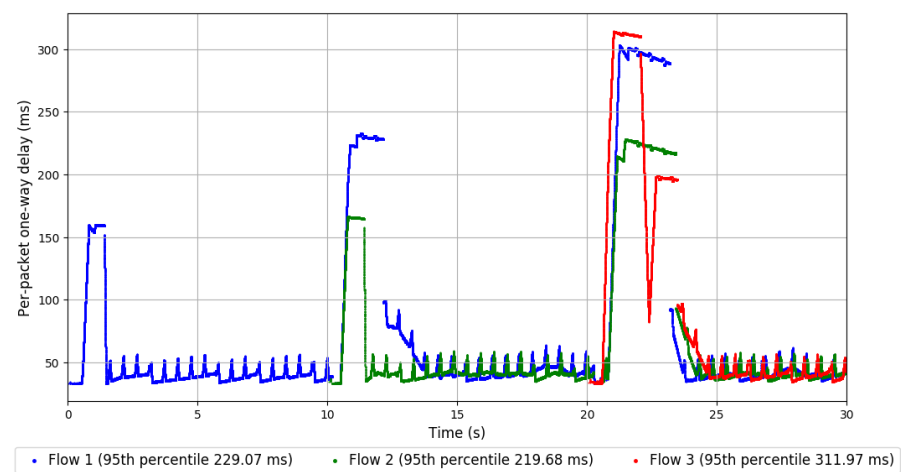
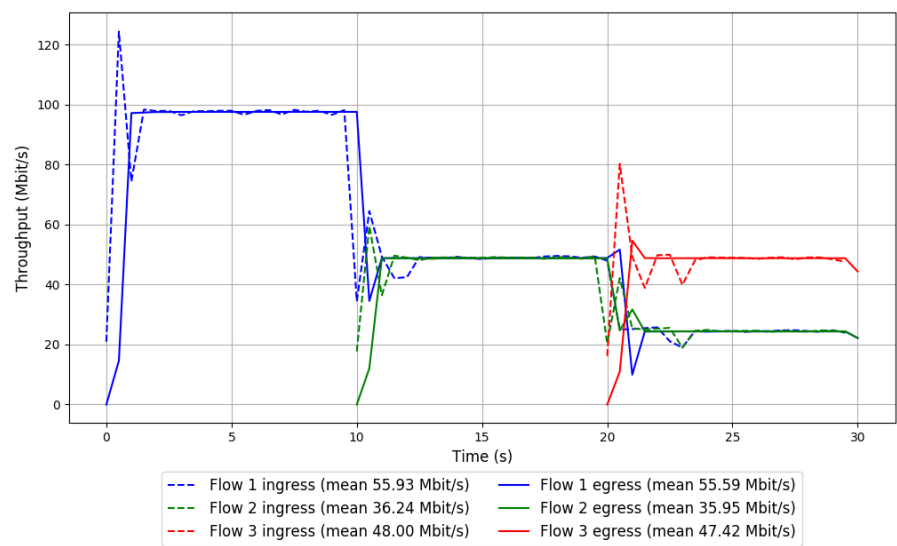


Run 3: Statistics of TCP BBR

Start at: 2018-10-10 05:14:34  
End at: 2018-10-10 05:15:04  
Local clock offset: 1.876 ms  
Remote clock offset: -2.974 ms

# Below is generated by plot.py at 2018-10-10 06:15:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.20 Mbit/s  
95th percentile per-packet one-way delay: 229.249 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 55.59 Mbit/s  
95th percentile per-packet one-way delay: 229.075 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 35.95 Mbit/s  
95th percentile per-packet one-way delay: 219.676 ms  
Loss rate: 1.12%  
-- Flow 3:  
Average throughput: 47.42 Mbit/s  
95th percentile per-packet one-way delay: 311.966 ms  
Loss rate: 1.88%

Run 3: Report of TCP BBR — Data Link

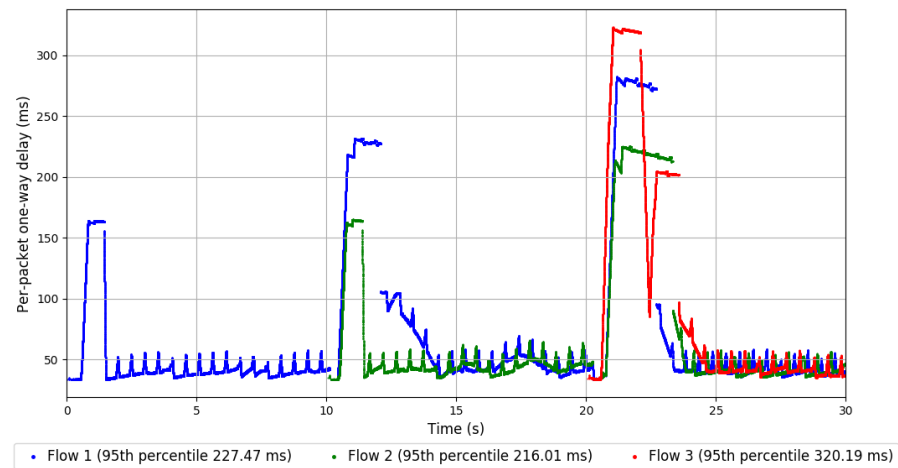
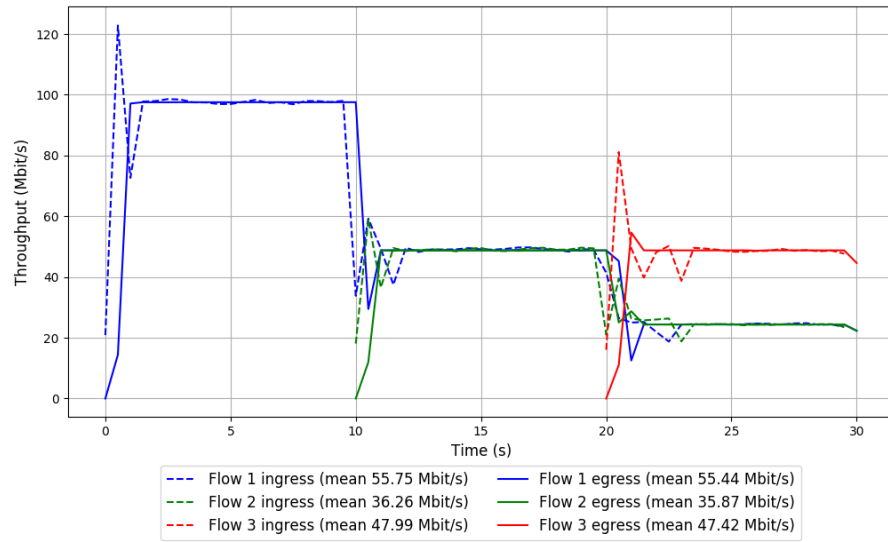


Run 4: Statistics of TCP BBR

Start at: 2018-10-10 05:39:20  
End at: 2018-10-10 05:39:50  
Local clock offset: 3.463 ms  
Remote clock offset: -2.769 ms

# Below is generated by plot.py at 2018-10-10 06:15:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.00 Mbit/s  
95th percentile per-packet one-way delay: 227.835 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 55.44 Mbit/s  
95th percentile per-packet one-way delay: 227.472 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 35.87 Mbit/s  
95th percentile per-packet one-way delay: 216.015 ms  
Loss rate: 1.41%  
-- Flow 3:  
Average throughput: 47.42 Mbit/s  
95th percentile per-packet one-way delay: 320.188 ms  
Loss rate: 1.83%

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



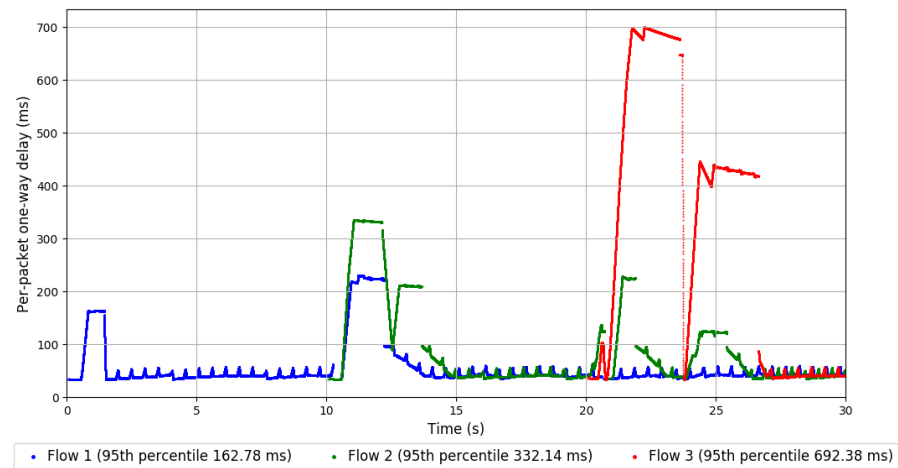
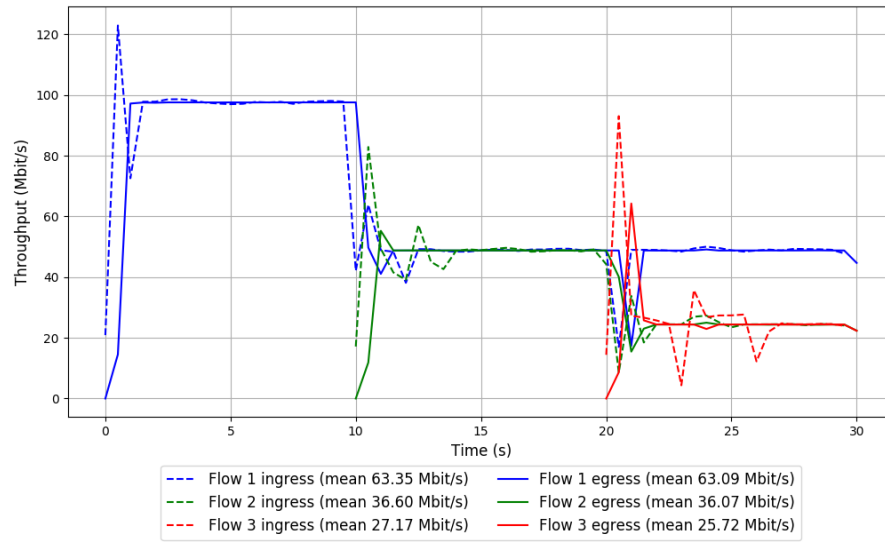


Run 5: Statistics of TCP BBR

Start at: 2018-10-10 06:04:26  
End at: 2018-10-10 06:04:57  
Local clock offset: 3.465 ms  
Remote clock offset: -2.276 ms

# Below is generated by plot.py at 2018-10-10 06:15:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.60 Mbit/s  
95th percentile per-packet one-way delay: 333.028 ms  
Loss rate: 1.40%  
-- Flow 1:  
Average throughput: 63.09 Mbit/s  
95th percentile per-packet one-way delay: 162.785 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 36.07 Mbit/s  
95th percentile per-packet one-way delay: 332.140 ms  
Loss rate: 1.75%  
-- Flow 3:  
Average throughput: 25.72 Mbit/s  
95th percentile per-packet one-way delay: 692.382 ms  
Loss rate: 5.95%

# Run 5: Report of TCP BBR — Data Link

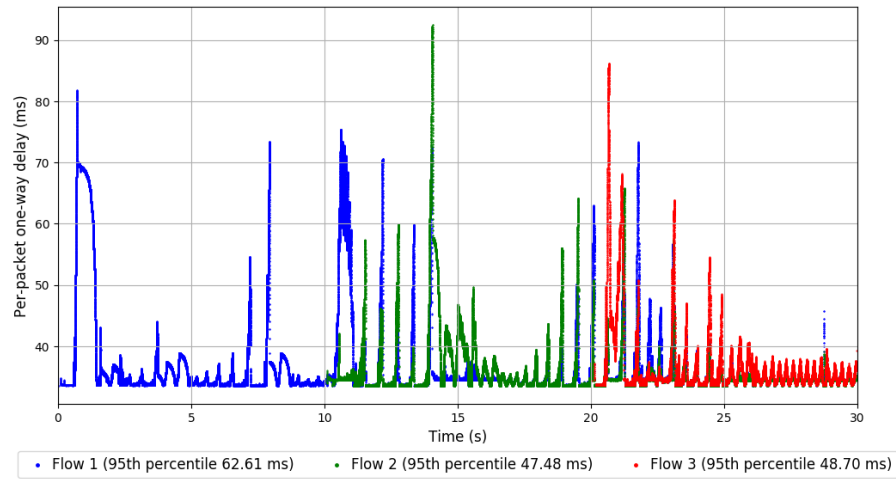
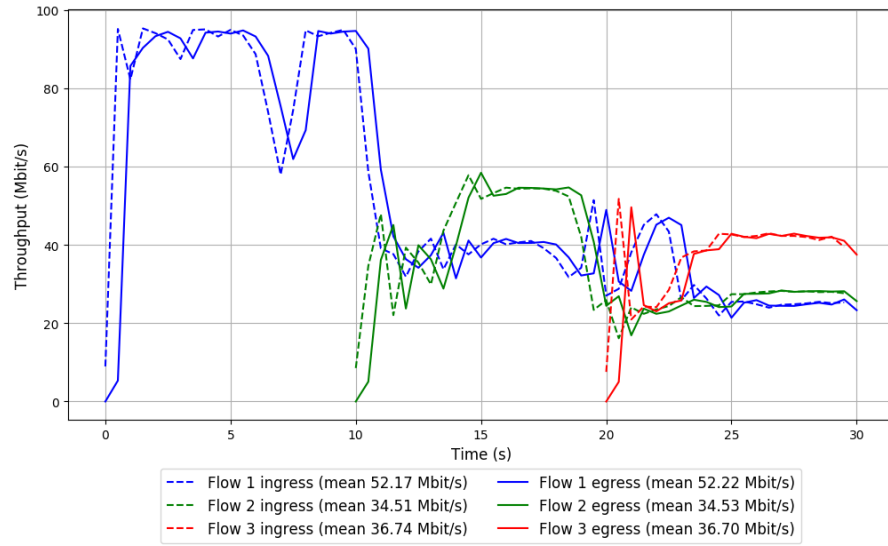


Run 1: Statistics of Copa

Start at: 2018-10-10 04:17:27  
End at: 2018-10-10 04:17:57  
Local clock offset: 6.108 ms  
Remote clock offset: -4.594 ms

# Below is generated by plot.py at 2018-10-10 06:16:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.36 Mbit/s  
95th percentile per-packet one-way delay: 56.487 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 52.22 Mbit/s  
95th percentile per-packet one-way delay: 62.611 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 34.53 Mbit/s  
95th percentile per-packet one-way delay: 47.485 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 36.70 Mbit/s  
95th percentile per-packet one-way delay: 48.704 ms  
Loss rate: 0.74%

## Run 1: Report of Copa — Data Link

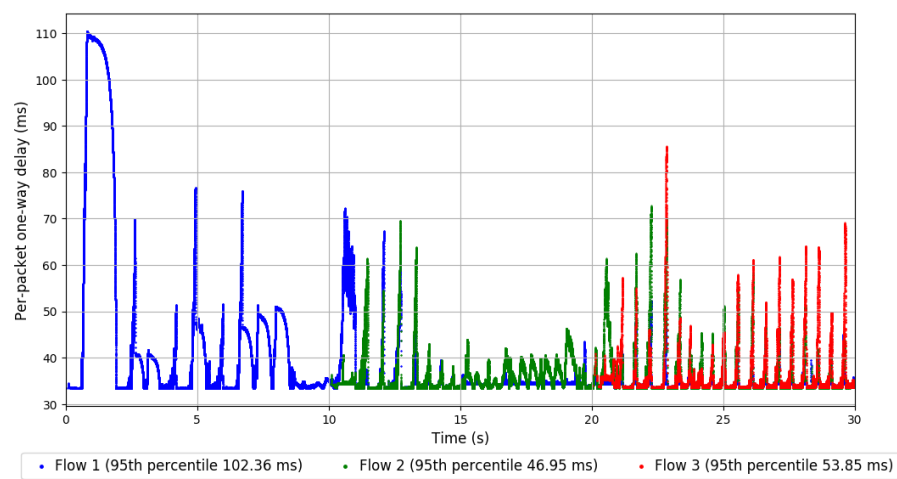
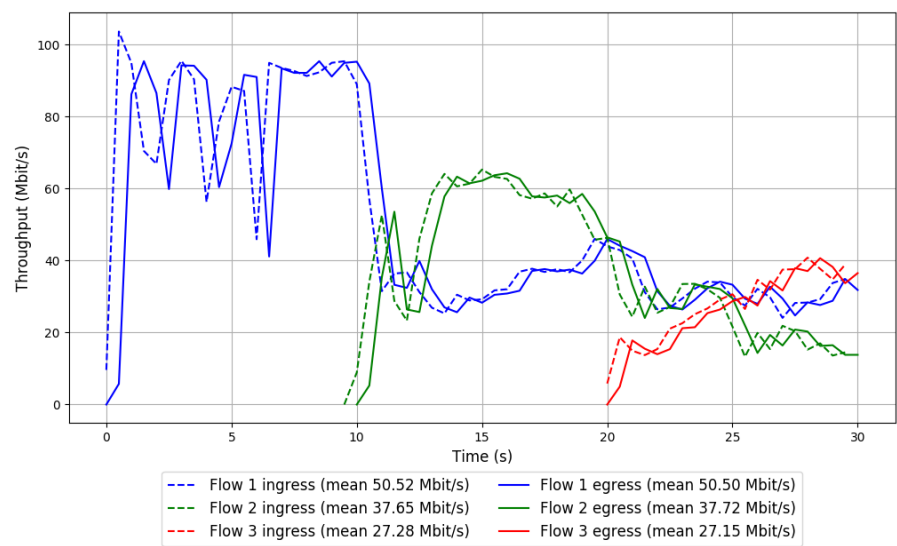


Run 2: Statistics of Copa

Start at: 2018-10-10 04:42:38  
End at: 2018-10-10 04:43:08  
Local clock offset: 2.767 ms  
Remote clock offset: -3.825 ms

# Below is generated by plot.py at 2018-10-10 06:16:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.59 Mbit/s  
95th percentile per-packet one-way delay: 66.774 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 50.50 Mbit/s  
95th percentile per-packet one-way delay: 102.365 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 37.72 Mbit/s  
95th percentile per-packet one-way delay: 46.951 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 27.15 Mbit/s  
95th percentile per-packet one-way delay: 53.851 ms  
Loss rate: 1.11%

Run 2: Report of Copa — Data Link

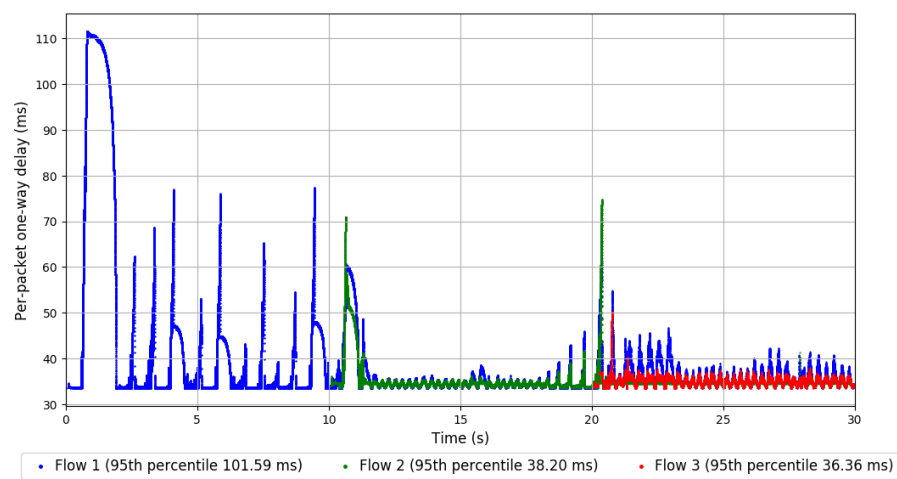
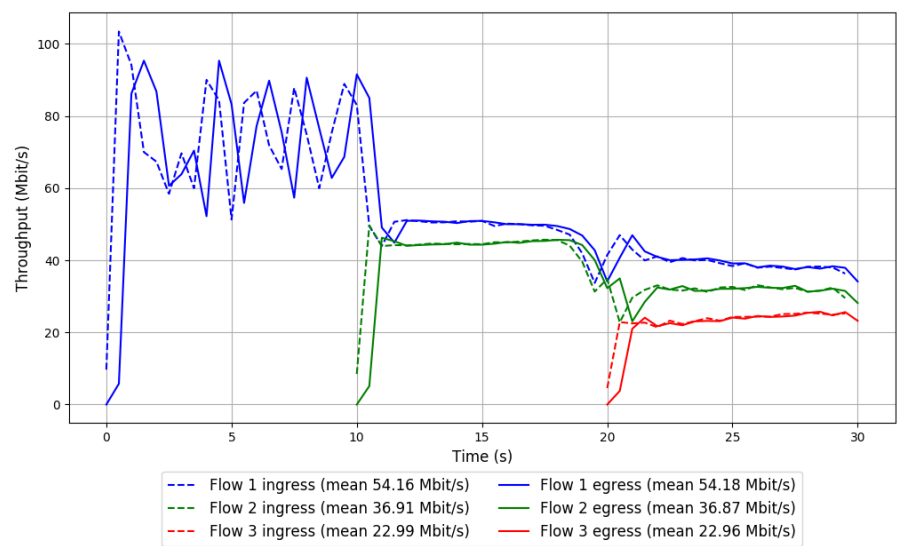


Run 3: Statistics of Copa

Start at: 2018-10-10 05:07:33  
End at: 2018-10-10 05:08:03  
Local clock offset: 1.953 ms  
Remote clock offset: -3.374 ms

# Below is generated by plot.py at 2018-10-10 06:16:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.32 Mbit/s  
95th percentile per-packet one-way delay: 64.619 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 54.18 Mbit/s  
95th percentile per-packet one-way delay: 101.593 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 36.87 Mbit/s  
95th percentile per-packet one-way delay: 38.197 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 22.96 Mbit/s  
95th percentile per-packet one-way delay: 36.363 ms  
Loss rate: 0.74%

Run 3: Report of Copa — Data Link



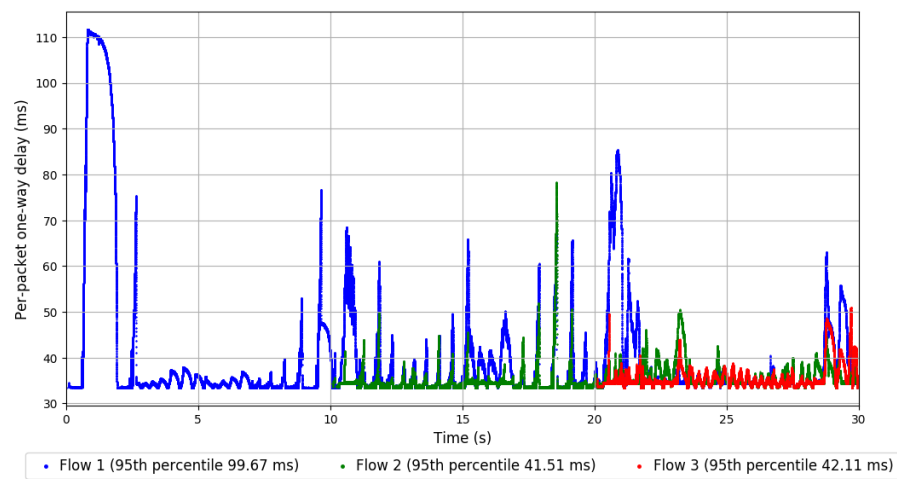
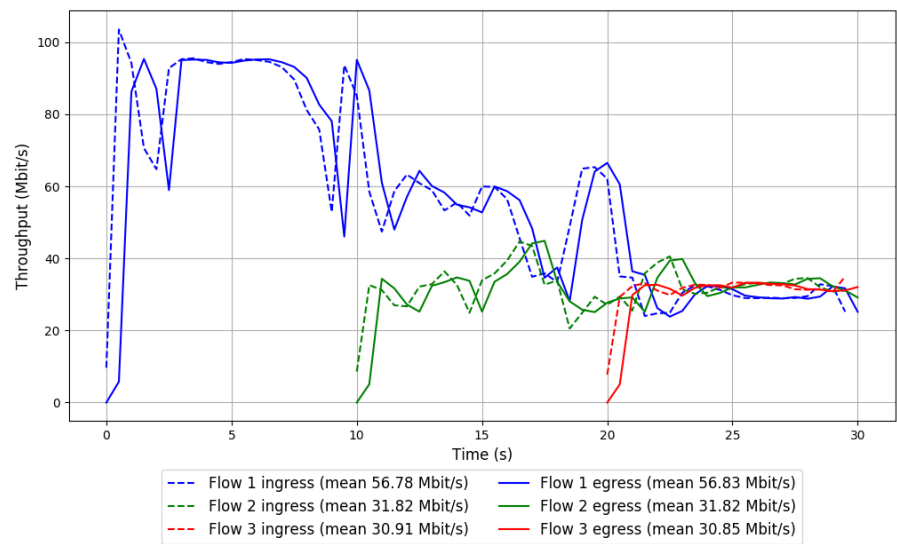


Run 4: Statistics of Copa

Start at: 2018-10-10 05:32:20  
End at: 2018-10-10 05:32:50  
Local clock offset: 2.9 ms  
Remote clock offset: -2.865 ms

# Below is generated by plot.py at 2018-10-10 06:17:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.24 Mbit/s  
95th percentile per-packet one-way delay: 69.475 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 56.83 Mbit/s  
95th percentile per-packet one-way delay: 99.672 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 31.82 Mbit/s  
95th percentile per-packet one-way delay: 41.506 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 30.85 Mbit/s  
95th percentile per-packet one-way delay: 42.110 ms  
Loss rate: 0.83%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-10-10 05:57:27

End at: 2018-10-10 05:57:57

Local clock offset: 3.829 ms

Remote clock offset: -2.36 ms

# Below is generated by plot.py at 2018-10-10 06:17:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.87 Mbit/s

95th percentile per-packet one-way delay: 79.262 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 49.74 Mbit/s

95th percentile per-packet one-way delay: 105.695 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 40.23 Mbit/s

95th percentile per-packet one-way delay: 49.405 ms

Loss rate: 0.12%

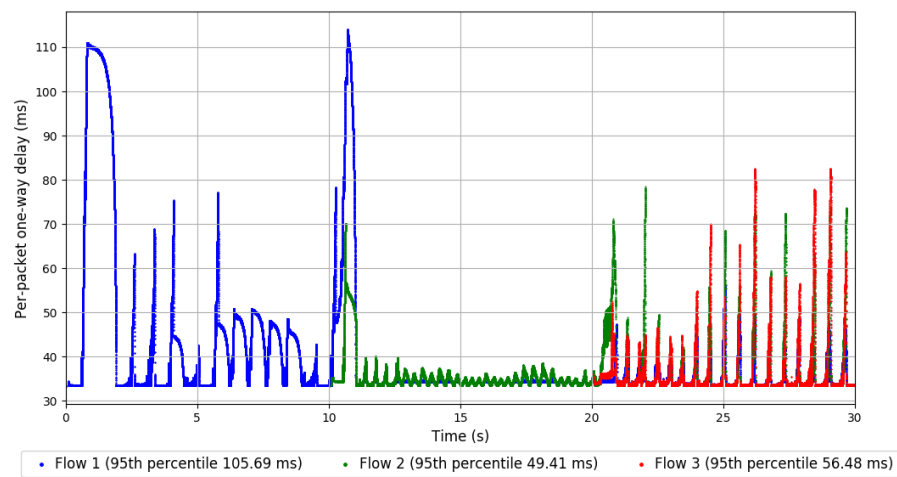
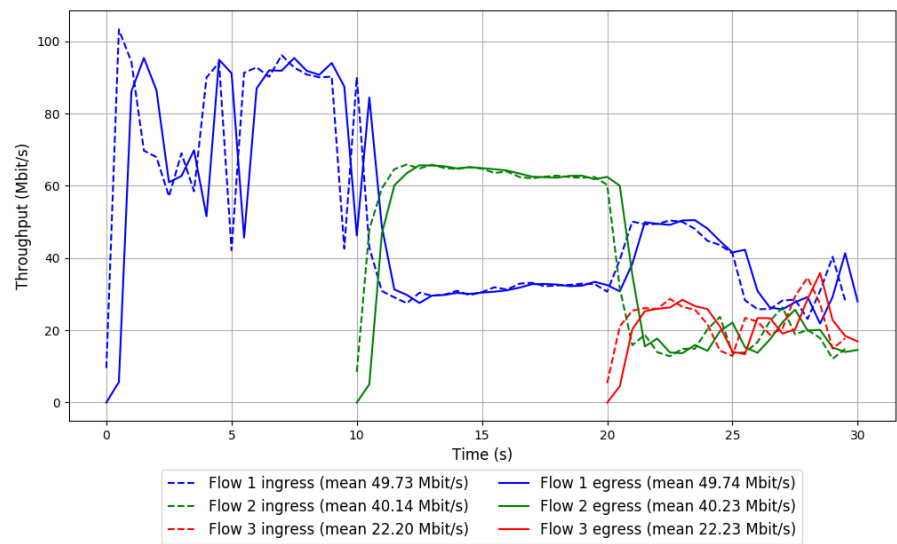
-- Flow 3:

Average throughput: 22.23 Mbit/s

95th percentile per-packet one-way delay: 56.484 ms

Loss rate: 0.54%

Run 5: Report of Copa — Data Link

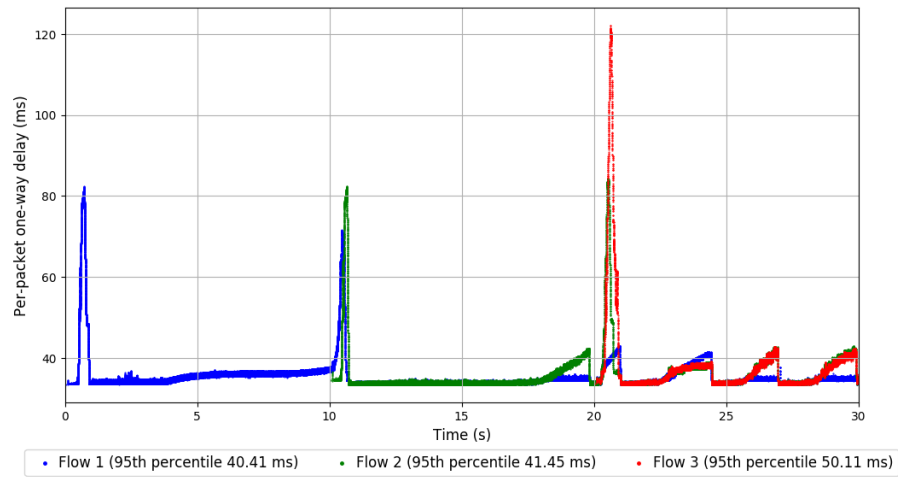
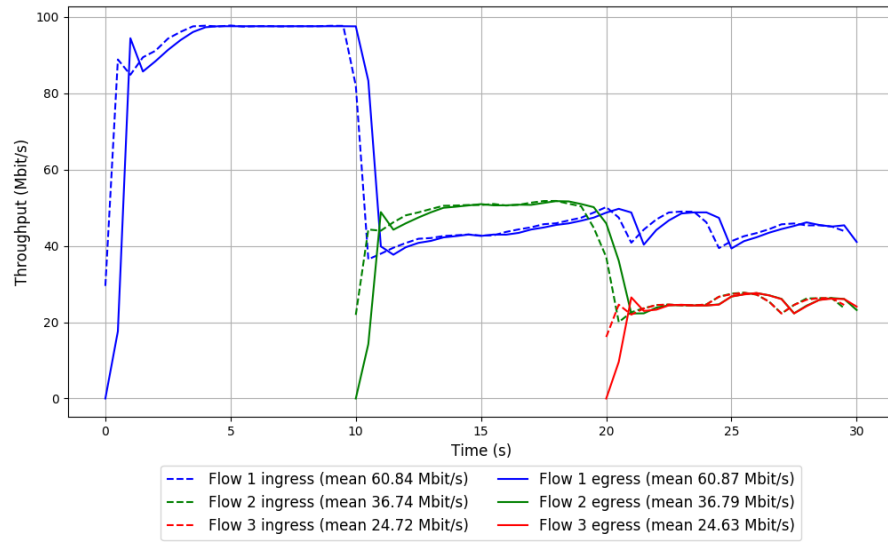


Run 1: Statistics of TCP Cubic

Start at: 2018-10-10 04:09:13  
End at: 2018-10-10 04:09:43  
Local clock offset: 5.351 ms  
Remote clock offset: -4.761 ms

# Below is generated by plot.py at 2018-10-10 06:17:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.51 Mbit/s  
95th percentile per-packet one-way delay: 41.055 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 60.87 Mbit/s  
95th percentile per-packet one-way delay: 40.409 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 36.79 Mbit/s  
95th percentile per-packet one-way delay: 41.453 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 24.63 Mbit/s  
95th percentile per-packet one-way delay: 50.113 ms  
Loss rate: 1.00%

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



Run 2: Statistics of TCP Cubic

Start at: 2018-10-10 04:34:28

End at: 2018-10-10 04:34:58

Local clock offset: 3.776 ms

Remote clock offset: -4.23 ms

# Below is generated by plot.py at 2018-10-10 06:17:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.59 Mbit/s

95th percentile per-packet one-way delay: 43.739 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 48.46 Mbit/s

95th percentile per-packet one-way delay: 47.552 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 37.95 Mbit/s

95th percentile per-packet one-way delay: 41.754 ms

Loss rate: 0.32%

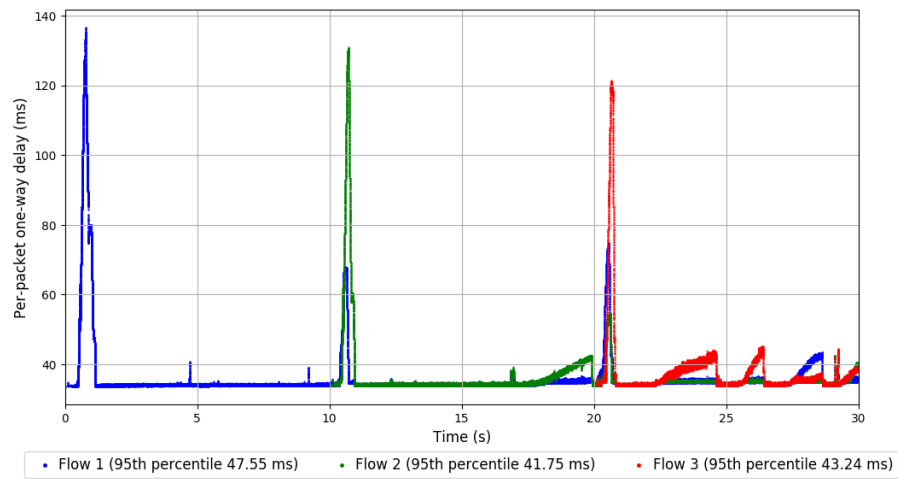
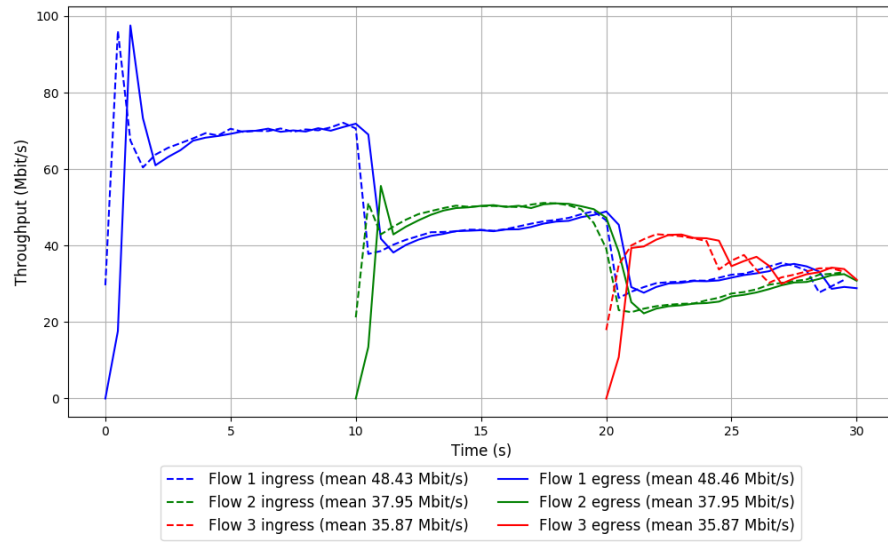
-- Flow 3:

Average throughput: 35.87 Mbit/s

95th percentile per-packet one-way delay: 43.236 ms

Loss rate: 0.65%

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



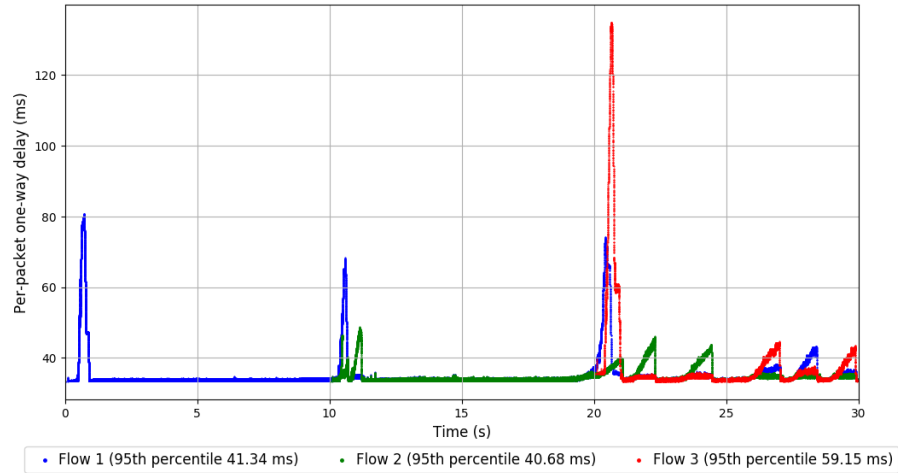
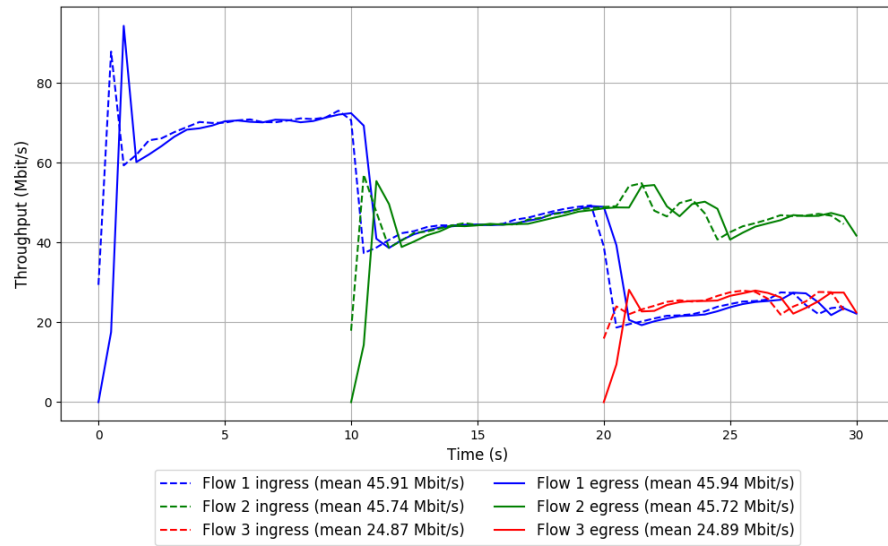


Run 3: Statistics of TCP Cubic

Start at: 2018-10-10 04:59:24  
End at: 2018-10-10 04:59:54  
Local clock offset: 2.068 ms  
Remote clock offset: -3.449 ms

# Below is generated by plot.py at 2018-10-10 06:17:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.61 Mbit/s  
95th percentile per-packet one-way delay: 41.715 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 45.94 Mbit/s  
95th percentile per-packet one-way delay: 41.341 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 45.72 Mbit/s  
95th percentile per-packet one-way delay: 40.682 ms  
Loss rate: 0.37%  
-- Flow 3:  
Average throughput: 24.89 Mbit/s  
95th percentile per-packet one-way delay: 59.154 ms  
Loss rate: 0.60%

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

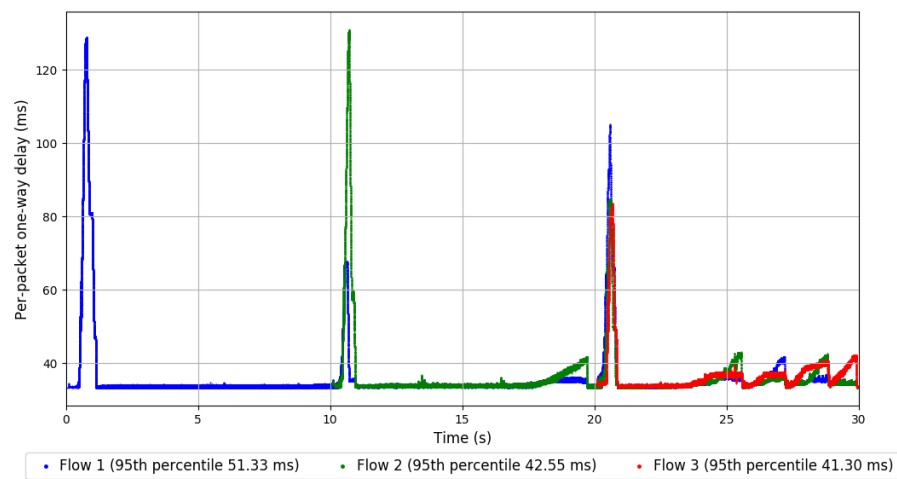
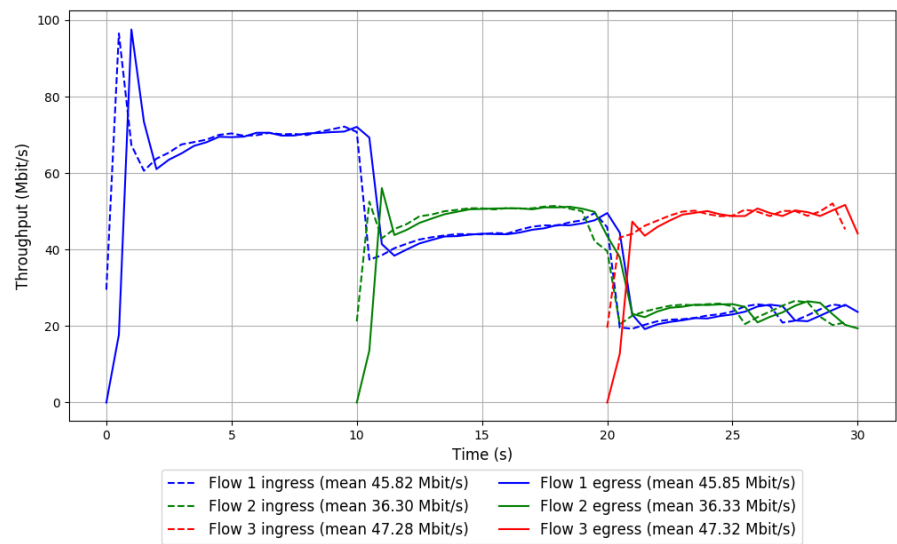


Run 4: Statistics of TCP Cubic

Start at: 2018-10-10 05:24:13  
End at: 2018-10-10 05:24:43  
Local clock offset: 1.725 ms  
Remote clock offset: -2.835 ms

# Below is generated by plot.py at 2018-10-10 06:17:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.67 Mbit/s  
95th percentile per-packet one-way delay: 47.071 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 45.85 Mbit/s  
95th percentile per-packet one-way delay: 51.326 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 36.33 Mbit/s  
95th percentile per-packet one-way delay: 42.555 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 47.32 Mbit/s  
95th percentile per-packet one-way delay: 41.301 ms  
Loss rate: 0.55%

Run 4: Report of TCP Cubic — Data Link

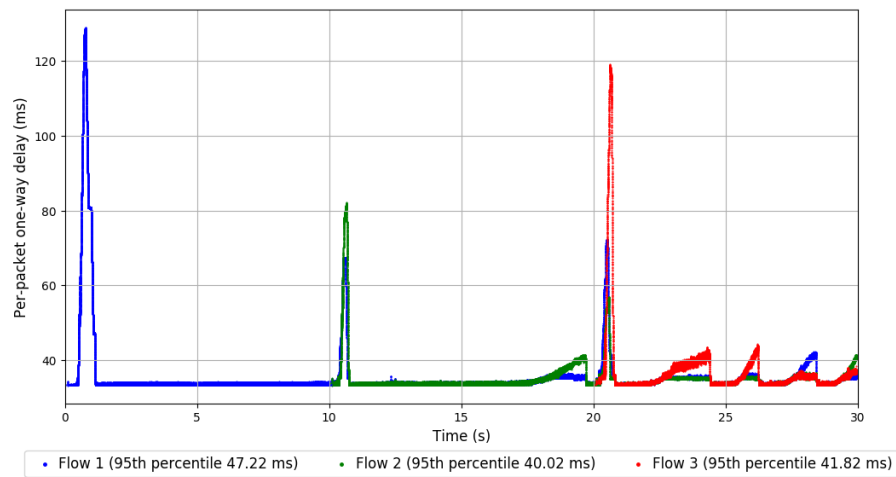
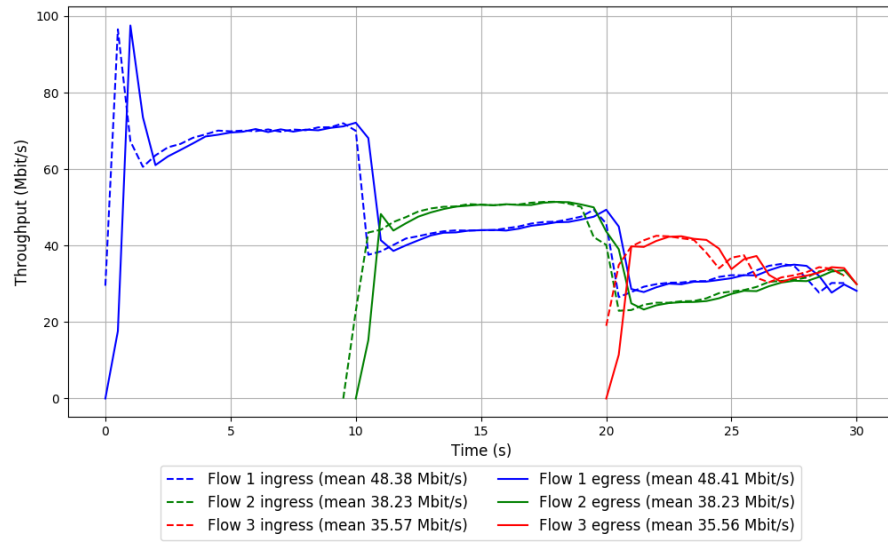


Run 5: Statistics of TCP Cubic

Start at: 2018-10-10 05:49:12  
End at: 2018-10-10 05:49:42  
Local clock offset: 3.891 ms  
Remote clock offset: -2.482 ms

# Below is generated by plot.py at 2018-10-10 06:17:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.64 Mbit/s  
95th percentile per-packet one-way delay: 41.444 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 48.41 Mbit/s  
95th percentile per-packet one-way delay: 47.223 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 38.23 Mbit/s  
95th percentile per-packet one-way delay: 40.015 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 35.56 Mbit/s  
95th percentile per-packet one-way delay: 41.820 ms  
Loss rate: 0.65%

# Run 5: Report of TCP Cubic — Data Link

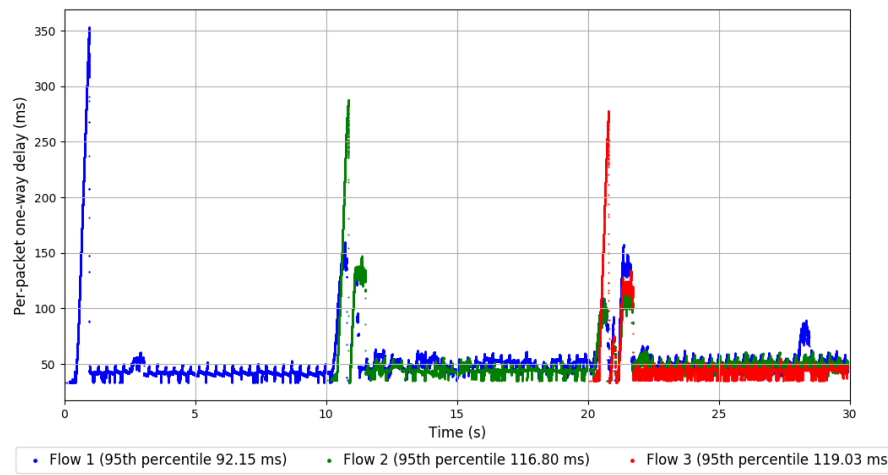
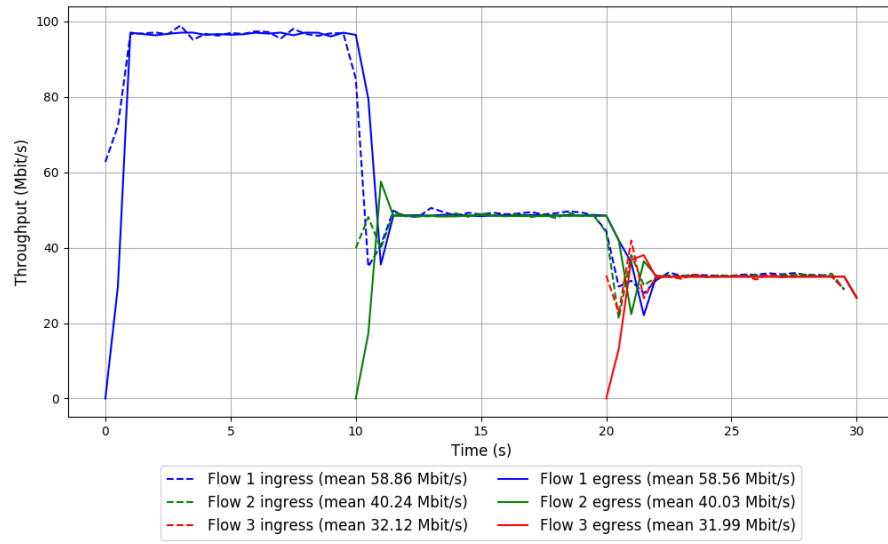


Run 1: Statistics of FillP

Start at: 2018-10-10 04:21:54  
End at: 2018-10-10 04:22:24  
Local clock offset: 6.408 ms  
Remote clock offset: -4.384 ms

# Below is generated by plot.py at 2018-10-10 06:17:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.74 Mbit/s  
95th percentile per-packet one-way delay: 106.535 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 58.56 Mbit/s  
95th percentile per-packet one-way delay: 92.148 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 40.03 Mbit/s  
95th percentile per-packet one-way delay: 116.797 ms  
Loss rate: 0.83%  
-- Flow 3:  
Average throughput: 31.99 Mbit/s  
95th percentile per-packet one-way delay: 119.026 ms  
Loss rate: 1.04%

# Run 1: Report of FillP — Data Link



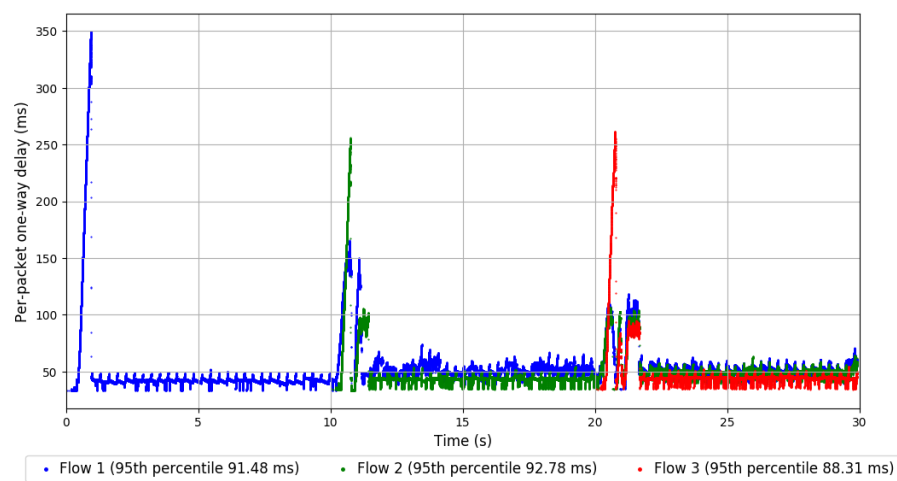
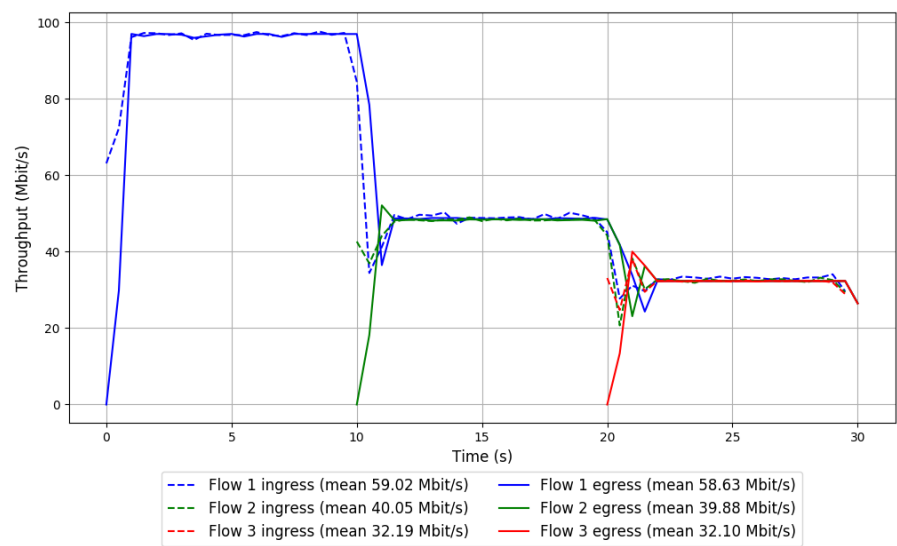


Run 2: Statistics of FillP

Start at: 2018-10-10 04:46:53  
End at: 2018-10-10 04:47:23  
Local clock offset: 2.478 ms  
Remote clock offset: -3.824 ms

# Below is generated by plot.py at 2018-10-10 06:17:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.74 Mbit/s  
95th percentile per-packet one-way delay: 91.890 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 58.63 Mbit/s  
95th percentile per-packet one-way delay: 91.478 ms  
Loss rate: 0.87%  
-- Flow 2:  
Average throughput: 39.88 Mbit/s  
95th percentile per-packet one-way delay: 92.785 ms  
Loss rate: 0.71%  
-- Flow 3:  
Average throughput: 32.10 Mbit/s  
95th percentile per-packet one-way delay: 88.311 ms  
Loss rate: 0.94%

Run 2: Report of FillP — Data Link

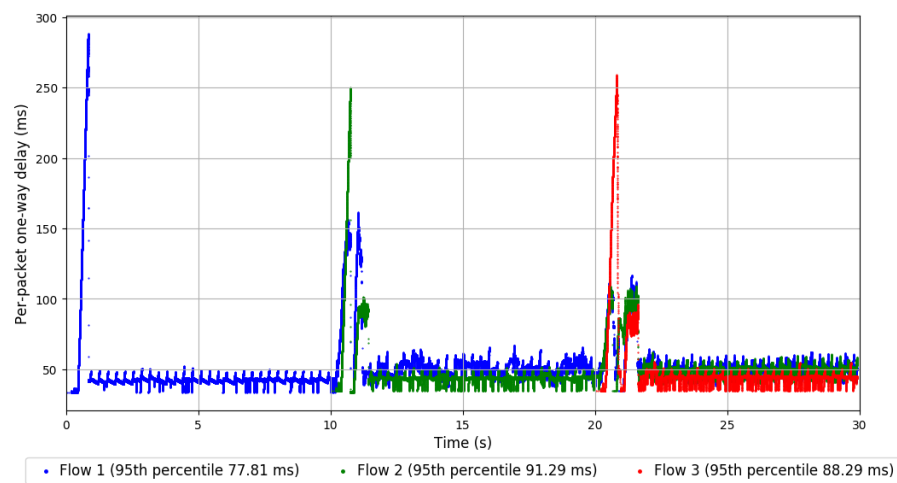
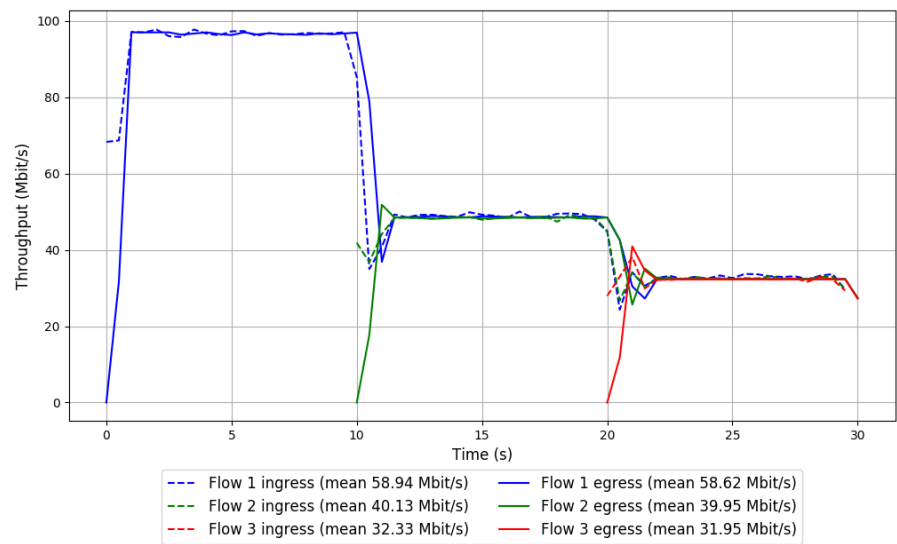


Run 3: Statistics of FillP

Start at: 2018-10-10 05:11:46  
End at: 2018-10-10 05:12:16  
Local clock offset: 1.893 ms  
Remote clock offset: -3.301 ms

# Below is generated by plot.py at 2018-10-10 06:17:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.74 Mbit/s  
95th percentile per-packet one-way delay: 88.605 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 58.62 Mbit/s  
95th percentile per-packet one-way delay: 77.806 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 39.95 Mbit/s  
95th percentile per-packet one-way delay: 91.288 ms  
Loss rate: 0.77%  
-- Flow 3:  
Average throughput: 31.95 Mbit/s  
95th percentile per-packet one-way delay: 88.293 ms  
Loss rate: 1.80%

Run 3: Report of FillP — Data Link

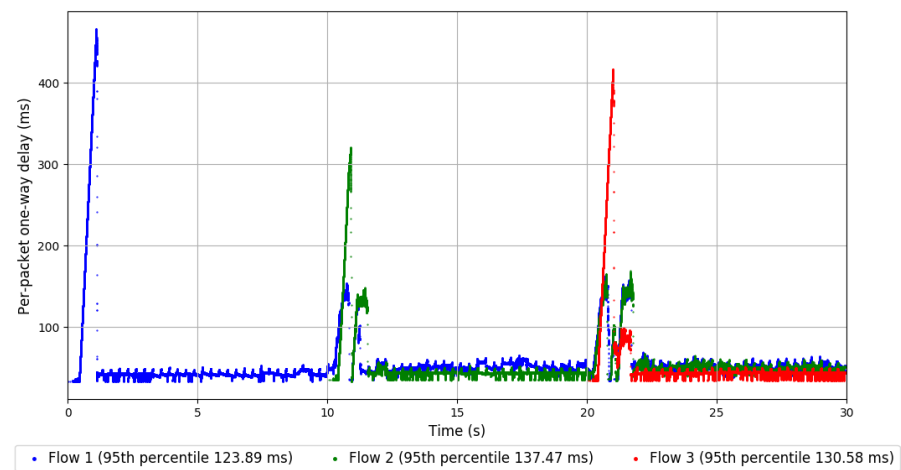
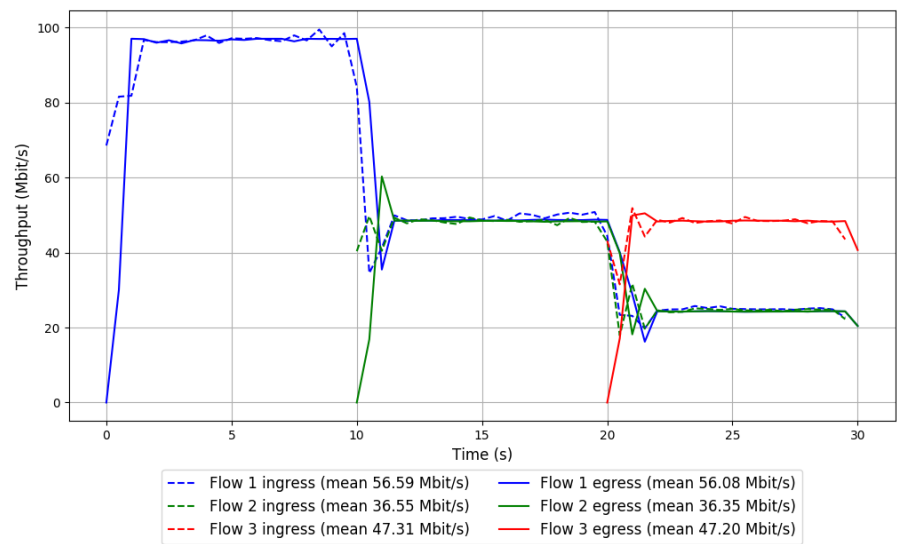


Run 4: Statistics of FillP

Start at: 2018-10-10 05:36:32  
End at: 2018-10-10 05:37:02  
Local clock offset: 3.288 ms  
Remote clock offset: -2.663 ms

# Below is generated by plot.py at 2018-10-10 06:17:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.85 Mbit/s  
95th percentile per-packet one-way delay: 133.193 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 56.08 Mbit/s  
95th percentile per-packet one-way delay: 123.886 ms  
Loss rate: 1.08%  
-- Flow 2:  
Average throughput: 36.35 Mbit/s  
95th percentile per-packet one-way delay: 137.466 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 47.20 Mbit/s  
95th percentile per-packet one-way delay: 130.579 ms  
Loss rate: 0.89%

Run 4: Report of FillP — Data Link

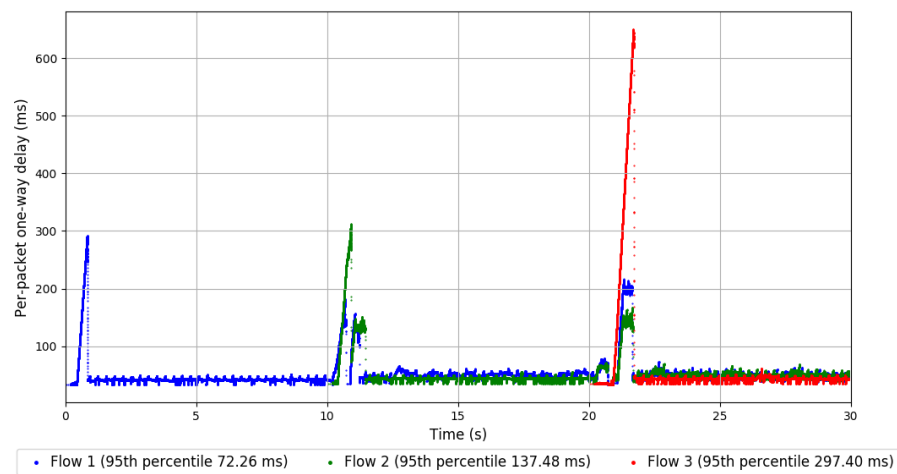
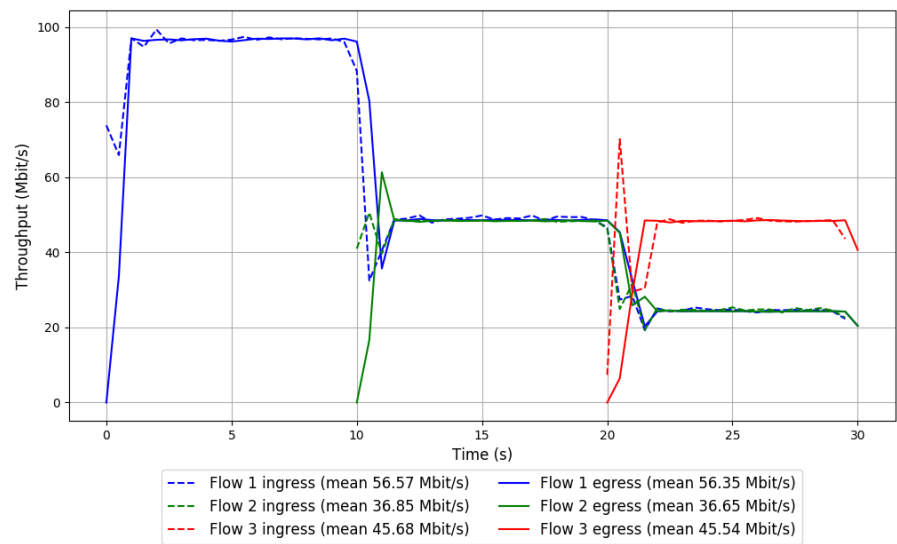


Run 5: Statistics of FillP

Start at: 2018-10-10 06:01:38  
End at: 2018-10-10 06:02:08  
Local clock offset: 3.58 ms  
Remote clock offset: -2.404 ms

# Below is generated by plot.py at 2018-10-10 06:18:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.76 Mbit/s  
95th percentile per-packet one-way delay: 125.617 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 56.35 Mbit/s  
95th percentile per-packet one-way delay: 72.257 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 36.65 Mbit/s  
95th percentile per-packet one-way delay: 137.484 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 45.54 Mbit/s  
95th percentile per-packet one-way delay: 297.397 ms  
Loss rate: 0.95%

Run 5: Report of FillP — Data Link



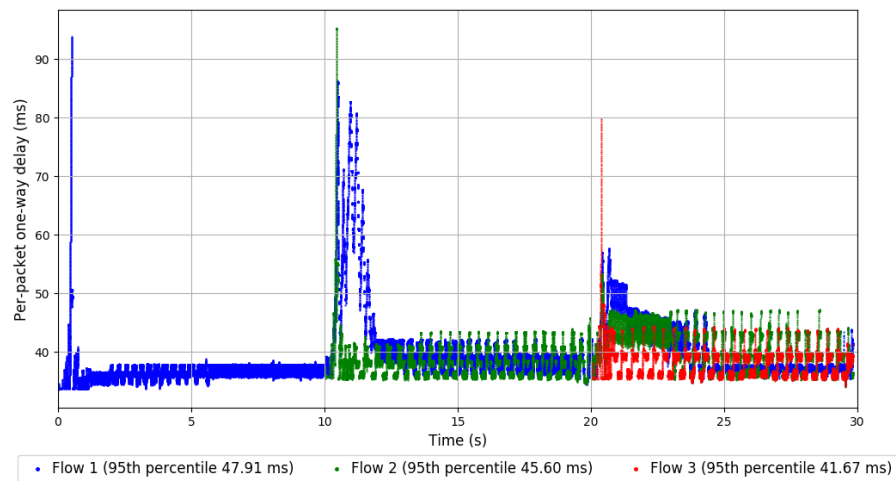
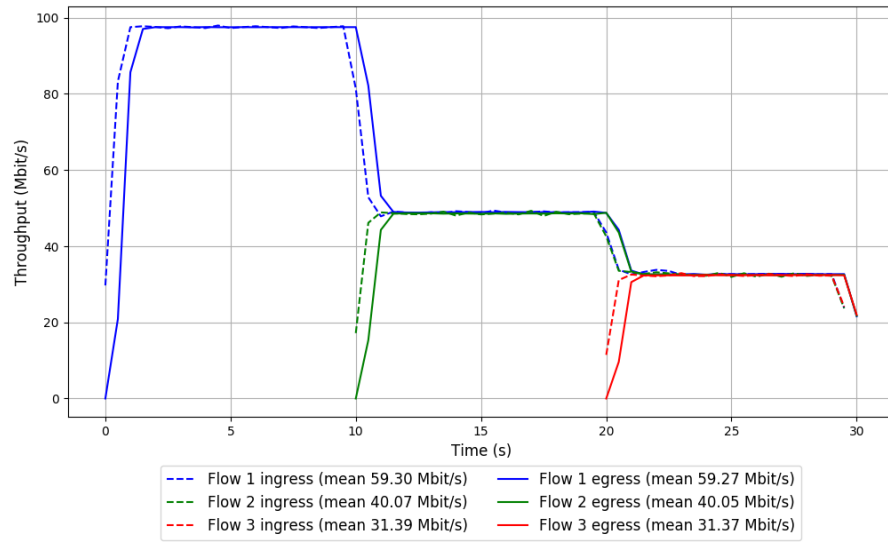


Run 1: Statistics of Indigo

Start at: 2018-10-10 04:31:41  
End at: 2018-10-10 04:32:11  
Local clock offset: 4.3 ms  
Remote clock offset: -4.203 ms

# Below is generated by plot.py at 2018-10-10 06:18:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.14 Mbit/s  
95th percentile per-packet one-way delay: 46.020 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 59.27 Mbit/s  
95th percentile per-packet one-way delay: 47.913 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 40.05 Mbit/s  
95th percentile per-packet one-way delay: 45.603 ms  
Loss rate: 0.39%  
-- Flow 3:  
Average throughput: 31.37 Mbit/s  
95th percentile per-packet one-way delay: 41.668 ms  
Loss rate: 0.73%

## Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-10-10 04:56:38

End at: 2018-10-10 04:57:08

Local clock offset: 2.101 ms

Remote clock offset: -3.59 ms

# Below is generated by plot.py at 2018-10-10 06:18:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 49.908 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 56.41 Mbit/s

95th percentile per-packet one-way delay: 51.233 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 36.29 Mbit/s

95th percentile per-packet one-way delay: 48.122 ms

Loss rate: 0.32%

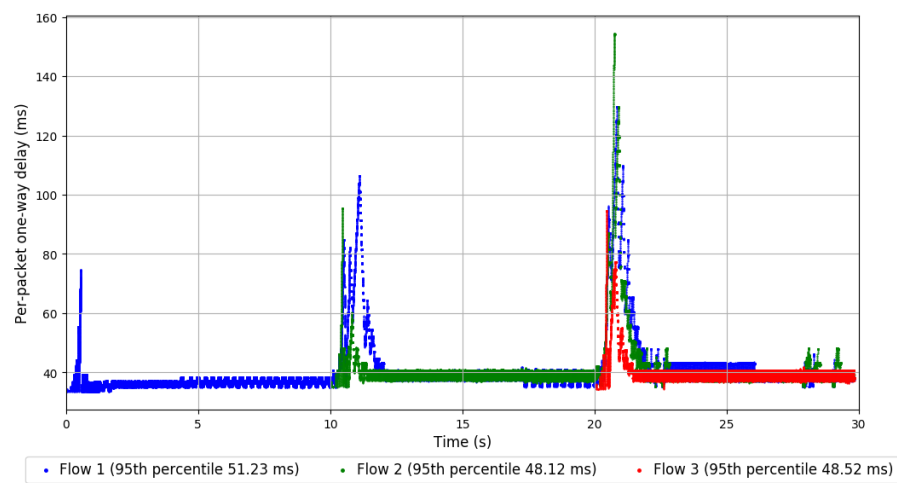
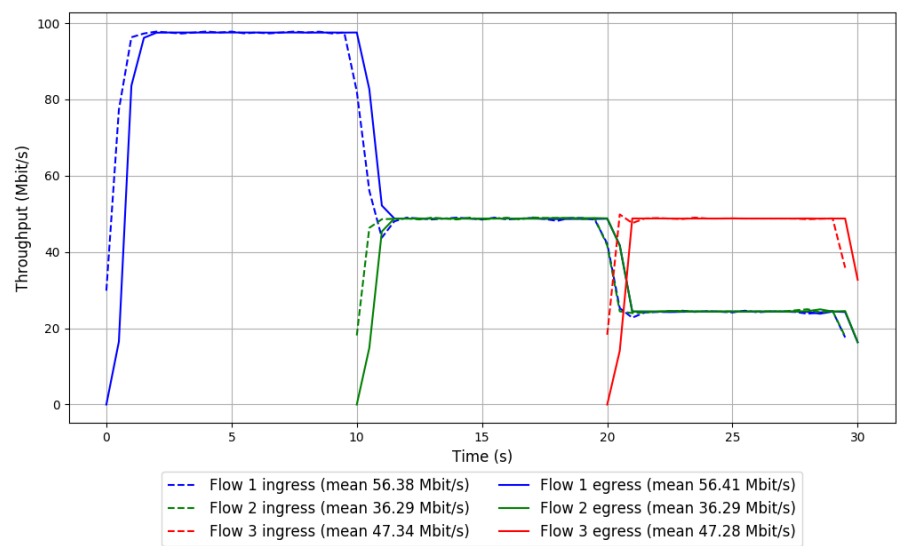
-- Flow 3:

Average throughput: 47.28 Mbit/s

95th percentile per-packet one-way delay: 48.515 ms

Loss rate: 0.77%

Run 2: Report of Indigo — Data Link

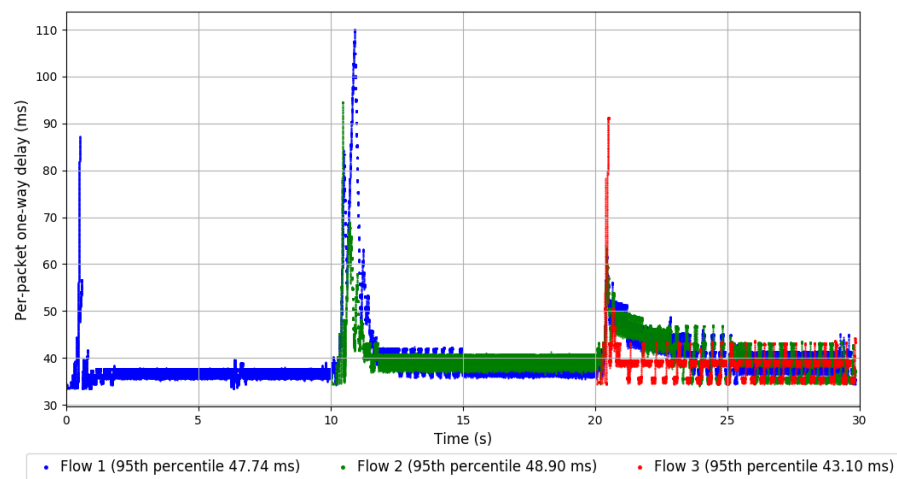
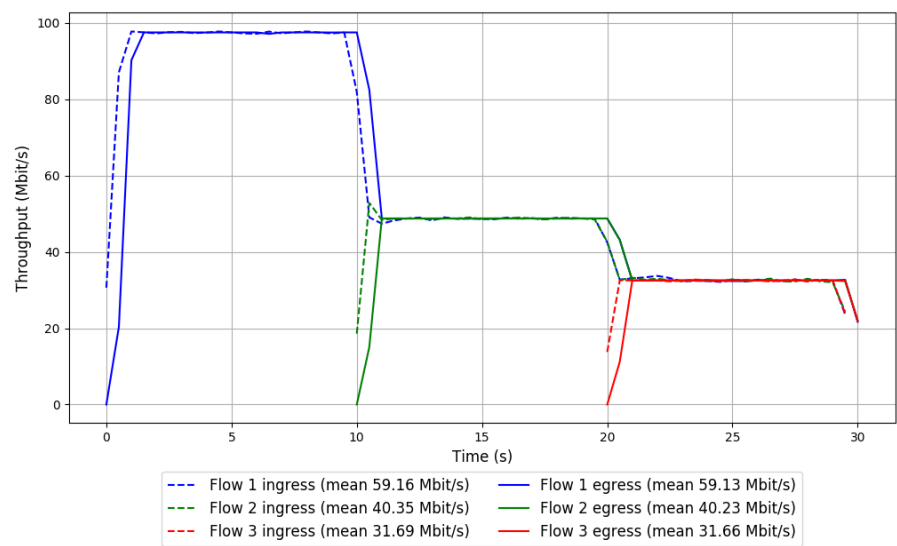


Run 3: Statistics of Indigo

Start at: 2018-10-10 05:21:26  
End at: 2018-10-10 05:21:56  
Local clock offset: 1.774 ms  
Remote clock offset: -3.008 ms

# Below is generated by plot.py at 2018-10-10 06:18:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.21 Mbit/s  
95th percentile per-packet one-way delay: 47.766 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 59.13 Mbit/s  
95th percentile per-packet one-way delay: 47.739 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 40.23 Mbit/s  
95th percentile per-packet one-way delay: 48.902 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 31.66 Mbit/s  
95th percentile per-packet one-way delay: 43.105 ms  
Loss rate: 0.73%

Run 3: Report of Indigo — Data Link

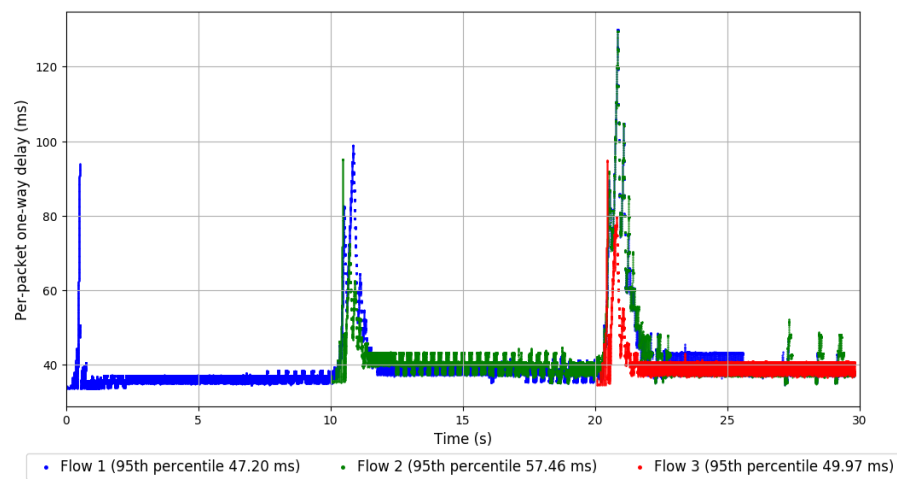
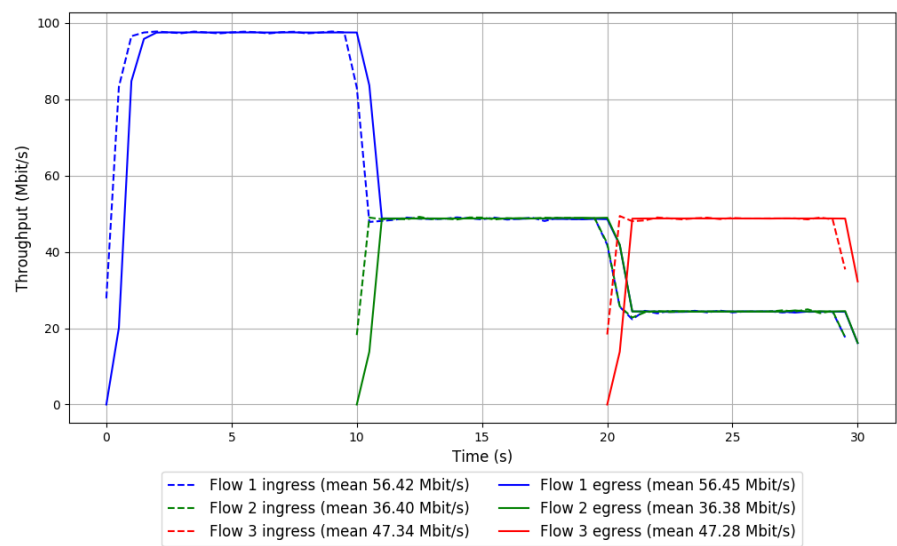


Run 4: Statistics of Indigo

Start at: 2018-10-10 05:46:15  
End at: 2018-10-10 05:46:45  
Local clock offset: 3.77 ms  
Remote clock offset: -2.799 ms

# Below is generated by plot.py at 2018-10-10 06:18:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.10 Mbit/s  
95th percentile per-packet one-way delay: 50.598 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 56.45 Mbit/s  
95th percentile per-packet one-way delay: 47.202 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 36.38 Mbit/s  
95th percentile per-packet one-way delay: 57.461 ms  
Loss rate: 0.37%  
-- Flow 3:  
Average throughput: 47.28 Mbit/s  
95th percentile per-packet one-way delay: 49.974 ms  
Loss rate: 0.77%

Run 4: Report of Indigo — Data Link



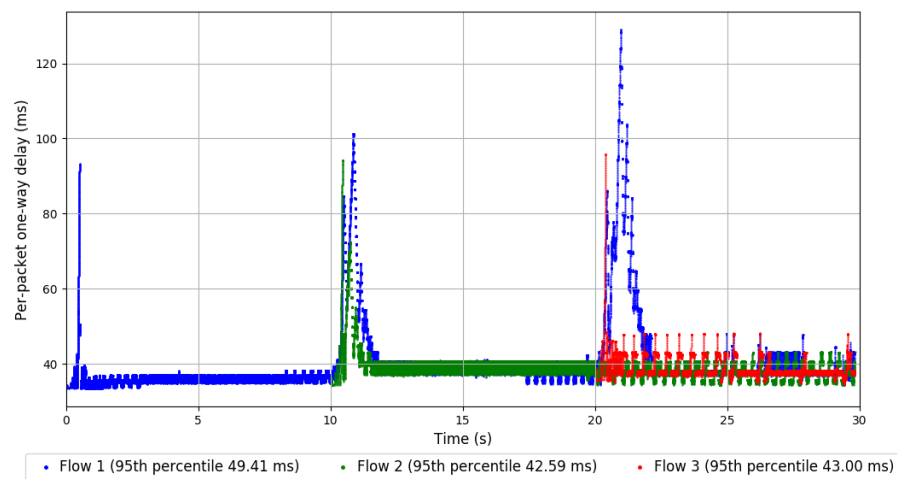
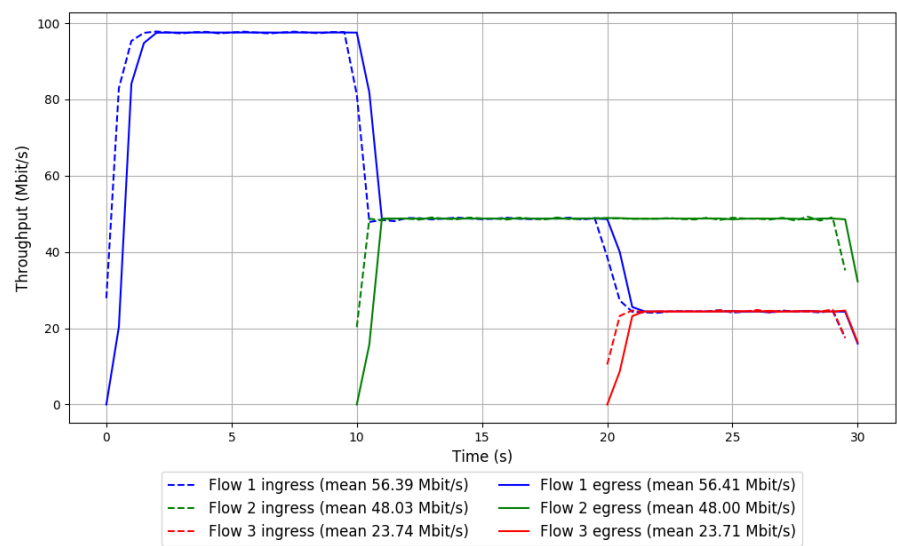


Run 5: Statistics of Indigo

Start at: 2018-10-10 06:11:34  
End at: 2018-10-10 06:12:04  
Local clock offset: 3.305 ms  
Remote clock offset: -2.363 ms

# Below is generated by plot.py at 2018-10-10 06:18:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.06 Mbit/s  
95th percentile per-packet one-way delay: 44.567 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 56.41 Mbit/s  
95th percentile per-packet one-way delay: 49.413 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 48.00 Mbit/s  
95th percentile per-packet one-way delay: 42.585 ms  
Loss rate: 0.37%  
-- Flow 3:  
Average throughput: 23.71 Mbit/s  
95th percentile per-packet one-way delay: 42.999 ms  
Loss rate: 0.77%

Run 5: Report of Indigo — Data Link

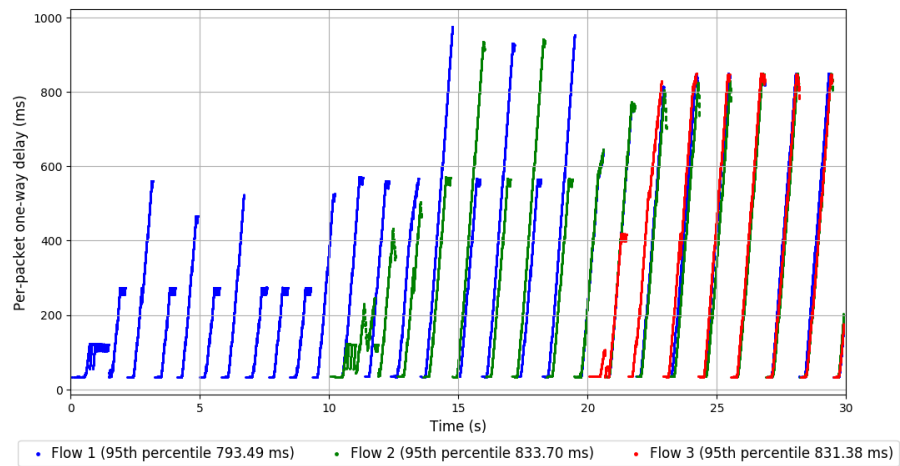
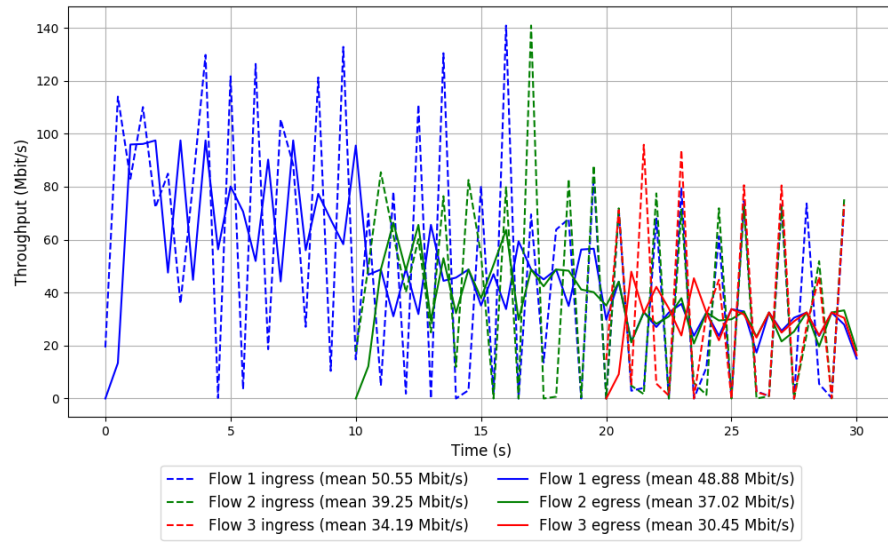


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-10-10 04:19:01  
End at: 2018-10-10 04:19:31  
Local clock offset: 6.22 ms  
Remote clock offset: -4.659 ms

# Below is generated by plot.py at 2018-10-10 06:18:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.54 Mbit/s  
95th percentile per-packet one-way delay: 821.939 ms  
Loss rate: 5.10%  
-- Flow 1:  
Average throughput: 48.88 Mbit/s  
95th percentile per-packet one-way delay: 793.489 ms  
Loss rate: 3.39%  
-- Flow 2:  
Average throughput: 37.02 Mbit/s  
95th percentile per-packet one-way delay: 833.701 ms  
Loss rate: 5.78%  
-- Flow 3:  
Average throughput: 30.45 Mbit/s  
95th percentile per-packet one-way delay: 831.385 ms  
Loss rate: 11.14%

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

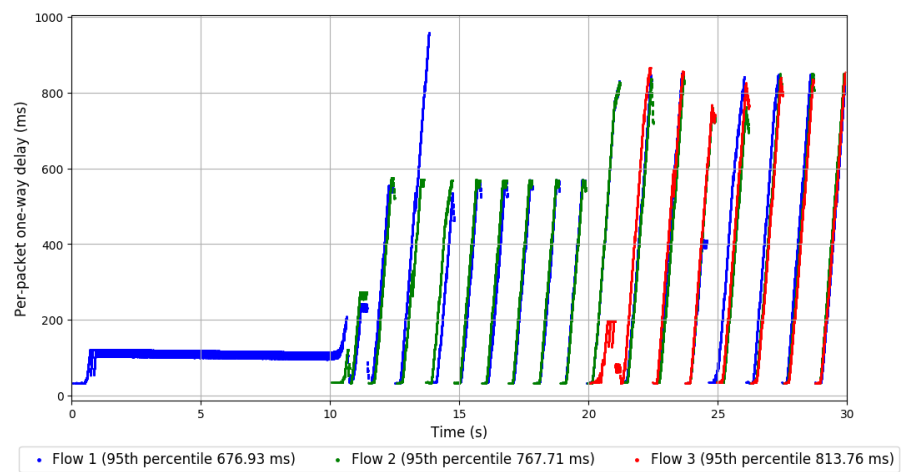
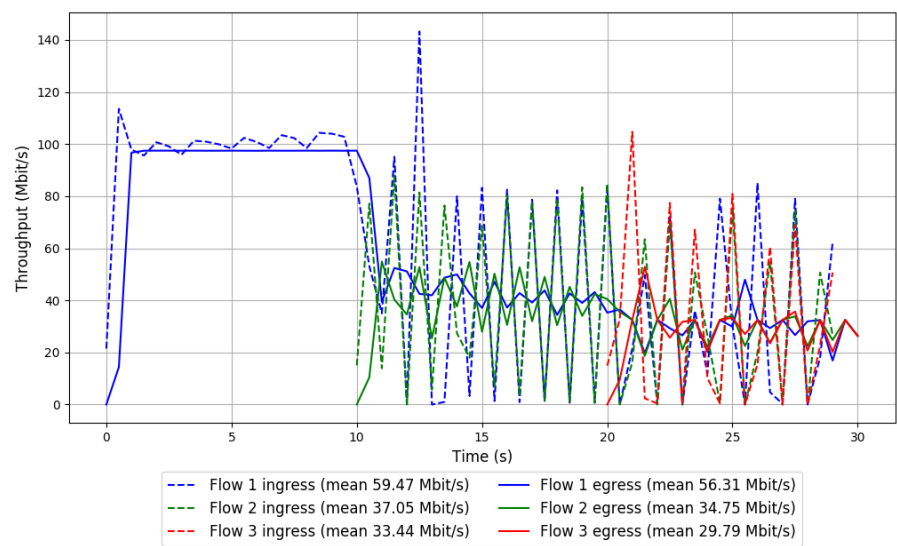


Run 2: Statistics of Indigo-96d2da3

Start at: 2018-10-10 04:44:05  
End at: 2018-10-10 04:44:35  
Local clock offset: 2.652 ms  
Remote clock offset: -3.993 ms

# Below is generated by plot.py at 2018-10-10 06:18:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.23 Mbit/s  
95th percentile per-packet one-way delay: 757.482 ms  
Loss rate: 3.25%  
-- Flow 1:  
Average throughput: 56.31 Mbit/s  
95th percentile per-packet one-way delay: 676.931 ms  
Loss rate: 3.36%  
-- Flow 2:  
Average throughput: 34.75 Mbit/s  
95th percentile per-packet one-way delay: 767.706 ms  
Loss rate: 2.80%  
-- Flow 3:  
Average throughput: 29.79 Mbit/s  
95th percentile per-packet one-way delay: 813.764 ms  
Loss rate: 3.65%

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

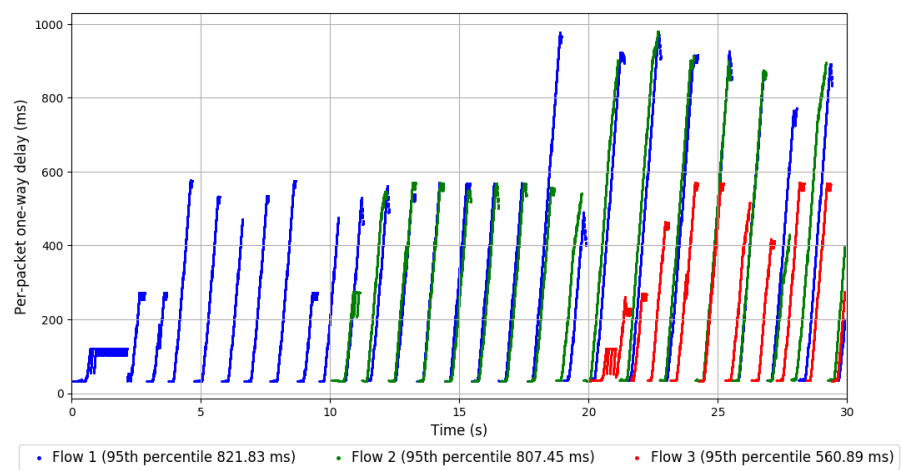
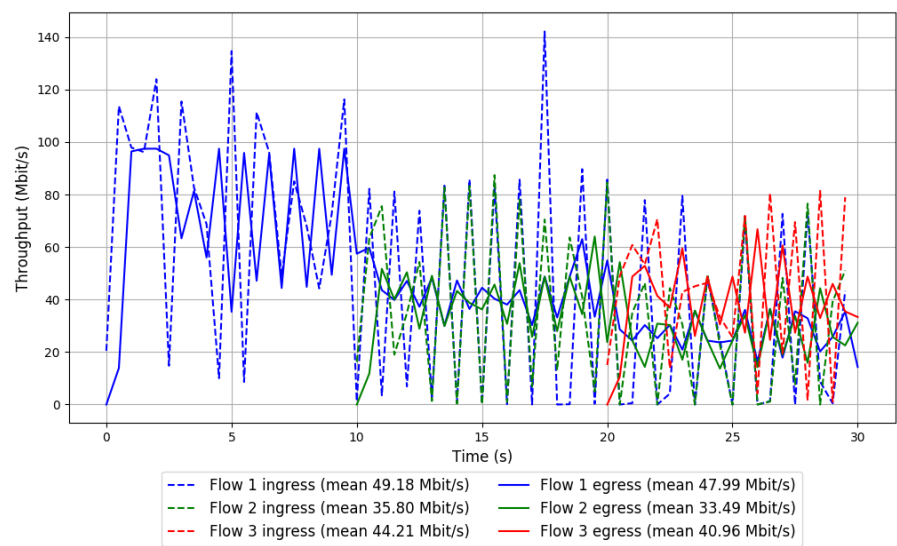


Run 3: Statistics of Indigo-96d2da3

Start at: 2018-10-10 05:09:00  
End at: 2018-10-10 05:09:30  
Local clock offset: 1.939 ms  
Remote clock offset: -3.079 ms

# Below is generated by plot.py at 2018-10-10 06:19:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.77 Mbit/s  
95th percentile per-packet one-way delay: 776.803 ms  
Loss rate: 4.01%  
-- Flow 1:  
Average throughput: 47.99 Mbit/s  
95th percentile per-packet one-way delay: 821.827 ms  
Loss rate: 2.55%  
-- Flow 2:  
Average throughput: 33.49 Mbit/s  
95th percentile per-packet one-way delay: 807.448 ms  
Loss rate: 5.44%  
-- Flow 3:  
Average throughput: 40.96 Mbit/s  
95th percentile per-packet one-way delay: 560.890 ms  
Loss rate: 6.65%

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



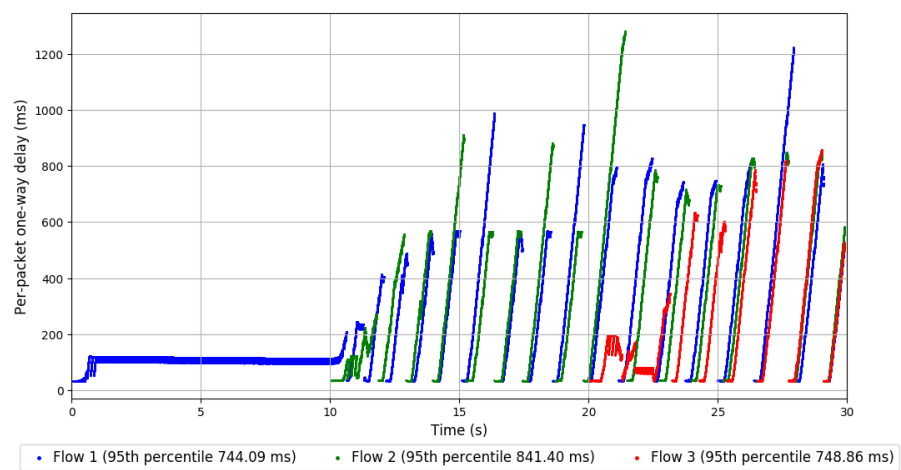
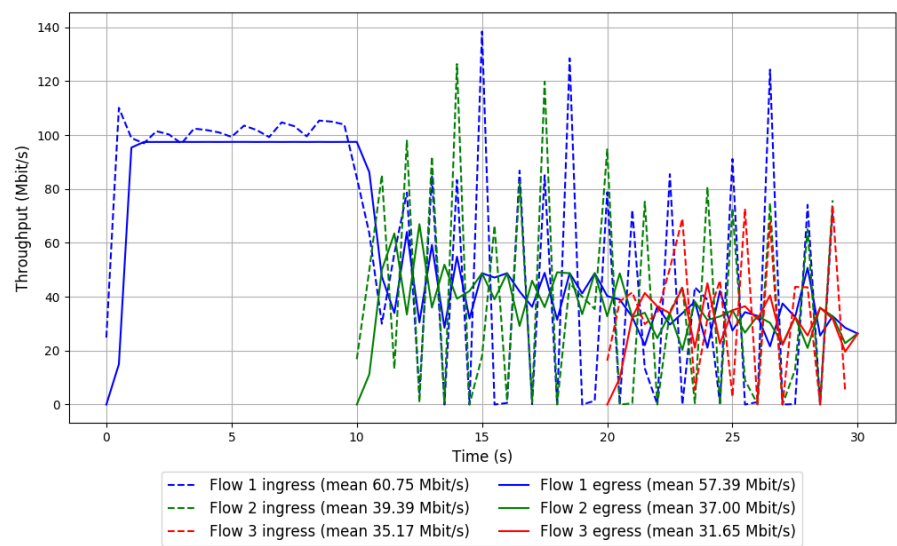


Run 4: Statistics of Indigo-96d2da3

Start at: 2018-10-10 05:33:45  
End at: 2018-10-10 05:34:15  
Local clock offset: 3.045 ms  
Remote clock offset: -2.898 ms

# Below is generated by plot.py at 2018-10-10 06:19:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.43 Mbit/s  
95th percentile per-packet one-way delay: 786.936 ms  
Loss rate: 4.56%  
-- Flow 1:  
Average throughput: 57.39 Mbit/s  
95th percentile per-packet one-way delay: 744.092 ms  
Loss rate: 4.27%  
-- Flow 2:  
Average throughput: 37.00 Mbit/s  
95th percentile per-packet one-way delay: 841.402 ms  
Loss rate: 4.10%  
-- Flow 3:  
Average throughput: 31.65 Mbit/s  
95th percentile per-packet one-way delay: 748.860 ms  
Loss rate: 7.16%

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

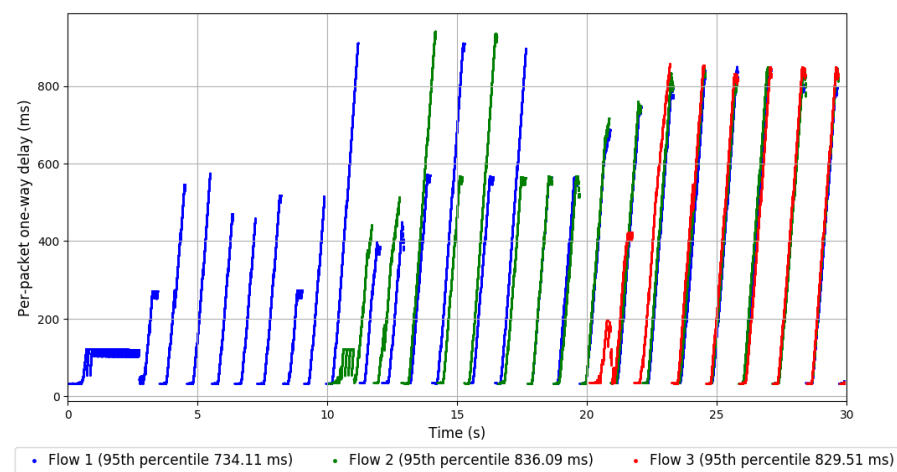
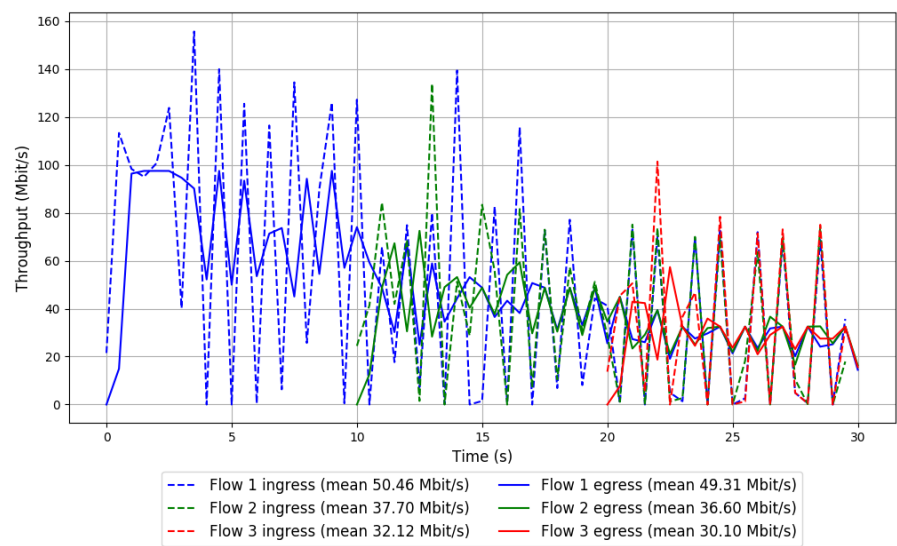


Run 5: Statistics of Indigo-96d2da3

Start at: 2018-10-10 05:58:53  
End at: 2018-10-10 05:59:23  
Local clock offset: 3.732 ms  
Remote clock offset: -2.346 ms

# Below is generated by plot.py at 2018-10-10 06:19:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.55 Mbit/s  
95th percentile per-packet one-way delay: 803.153 ms  
Loss rate: 3.25%  
-- Flow 1:  
Average throughput: 49.31 Mbit/s  
95th percentile per-packet one-way delay: 734.112 ms  
Loss rate: 2.49%  
-- Flow 2:  
Average throughput: 36.60 Mbit/s  
95th percentile per-packet one-way delay: 836.092 ms  
Loss rate: 3.24%  
-- Flow 3:  
Average throughput: 30.10 Mbit/s  
95th percentile per-packet one-way delay: 829.506 ms  
Loss rate: 6.92%

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

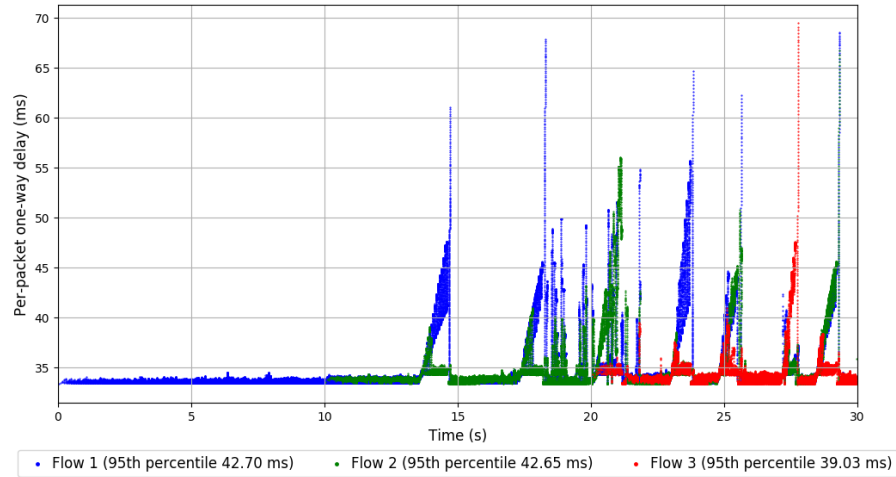
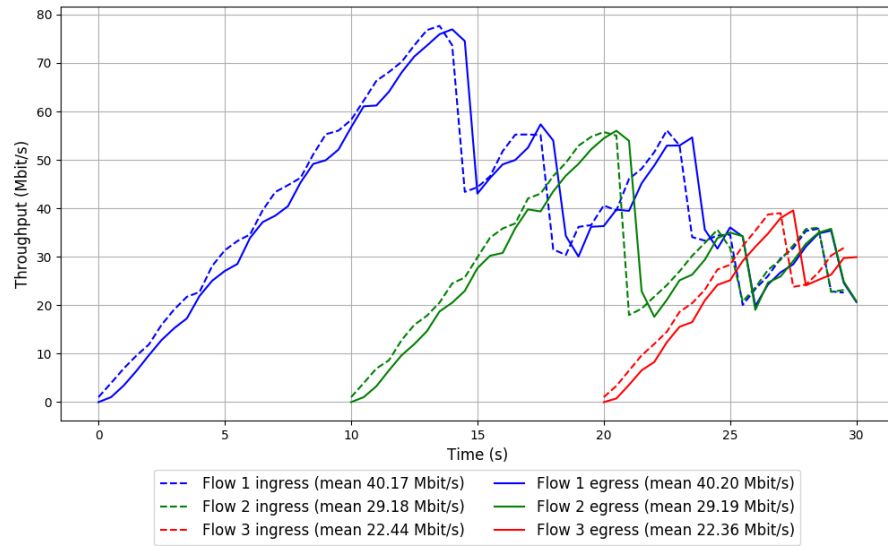


Run 1: Statistics of LEDBAT

Start at: 2018-10-10 04:14:39  
End at: 2018-10-10 04:15:09  
Local clock offset: 5.876 ms  
Remote clock offset: -4.521 ms

# Below is generated by plot.py at 2018-10-10 06:19:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.02 Mbit/s  
95th percentile per-packet one-way delay: 42.501 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 40.20 Mbit/s  
95th percentile per-packet one-way delay: 42.697 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 29.19 Mbit/s  
95th percentile per-packet one-way delay: 42.648 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 22.36 Mbit/s  
95th percentile per-packet one-way delay: 39.028 ms  
Loss rate: 1.00%

## Run 1: Report of LEDBAT — Data Link

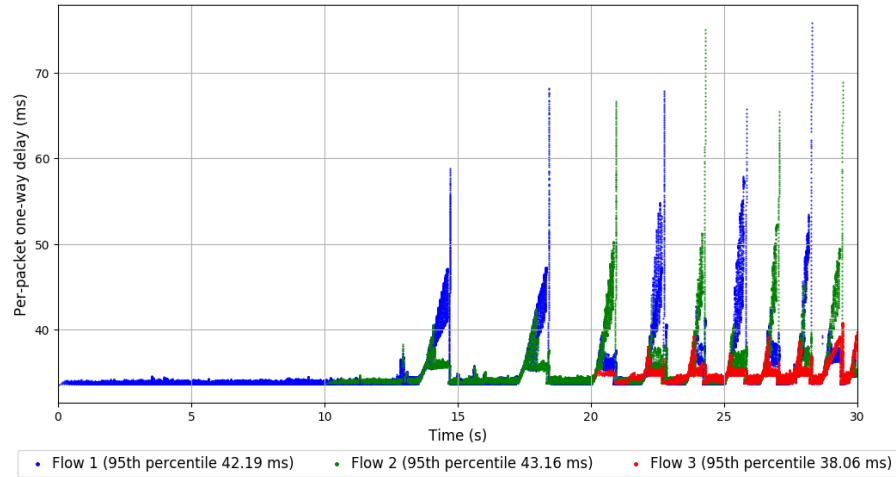
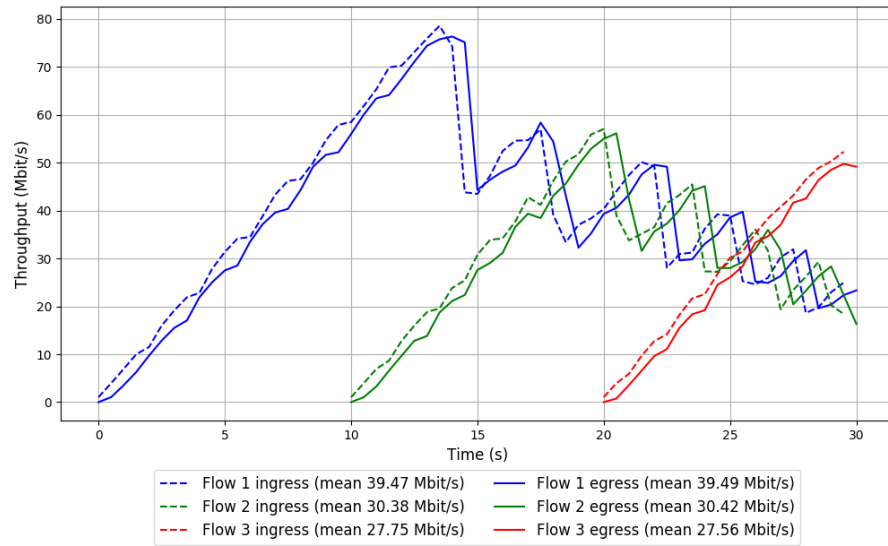


Run 2: Statistics of LEDBAT

Start at: 2018-10-10 04:39:53  
End at: 2018-10-10 04:40:23  
Local clock offset: 3.018 ms  
Remote clock offset: -4.082 ms

# Below is generated by plot.py at 2018-10-10 06:19:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.87 Mbit/s  
95th percentile per-packet one-way delay: 41.821 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 39.49 Mbit/s  
95th percentile per-packet one-way delay: 42.187 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 30.42 Mbit/s  
95th percentile per-packet one-way delay: 43.162 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 27.56 Mbit/s  
95th percentile per-packet one-way delay: 38.063 ms  
Loss rate: 1.30%

## Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2018-10-10 05:04:48

End at: 2018-10-10 05:05:18

Local clock offset: 1.99 ms

Remote clock offset: -3.25 ms

# Below is generated by plot.py at 2018-10-10 06:19:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.96 Mbit/s

95th percentile per-packet one-way delay: 41.905 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 40.48 Mbit/s

95th percentile per-packet one-way delay: 41.728 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 28.76 Mbit/s

95th percentile per-packet one-way delay: 42.278 ms

Loss rate: 0.30%

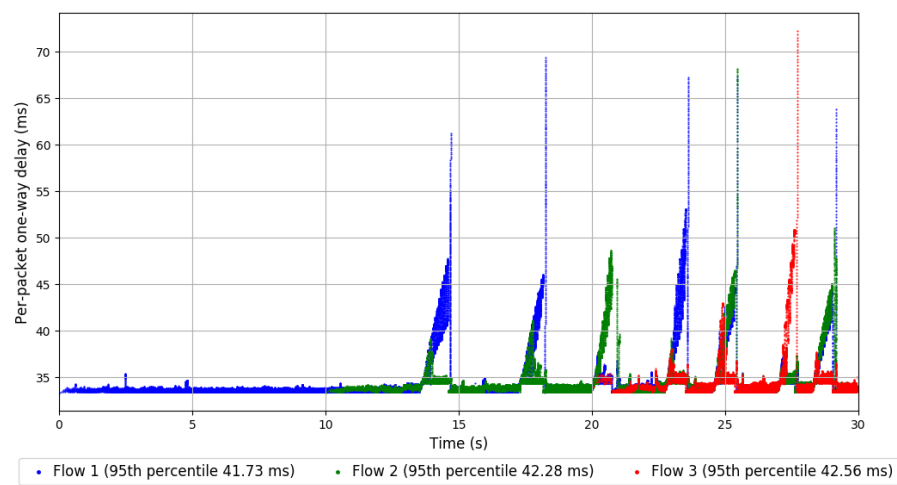
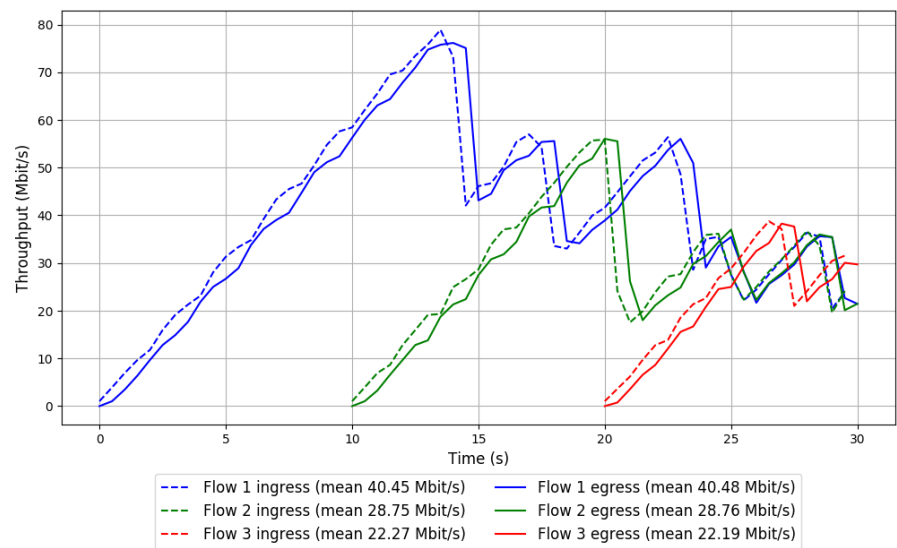
-- Flow 3:

Average throughput: 22.19 Mbit/s

95th percentile per-packet one-way delay: 42.564 ms

Loss rate: 1.00%

Run 3: Report of LEDBAT — Data Link

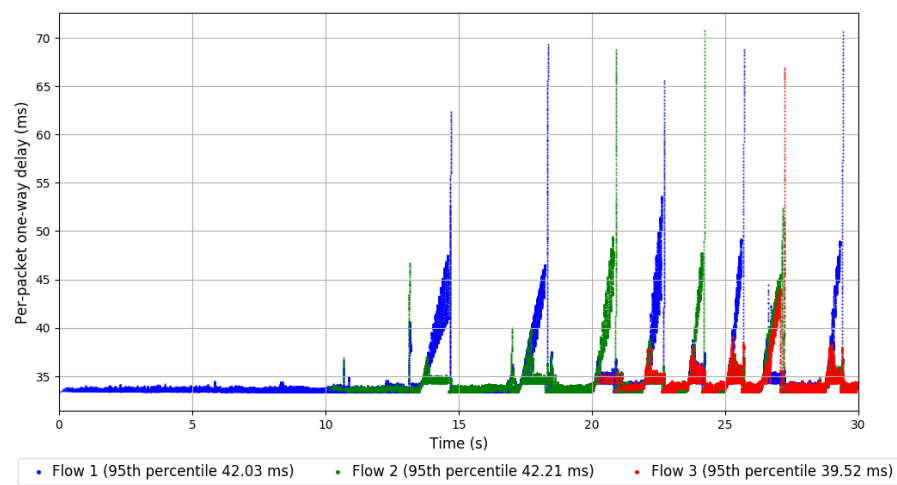
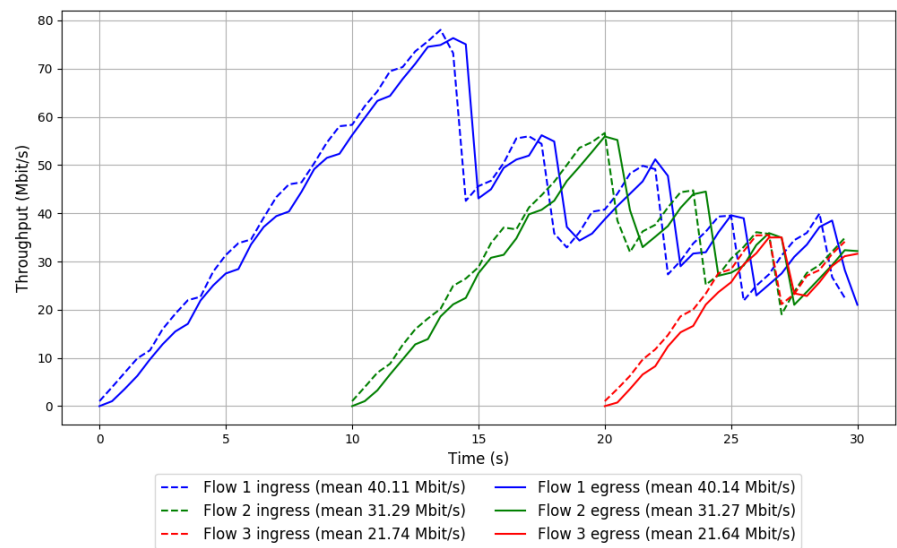


Run 4: Statistics of LEDBAT

Start at: 2018-10-10 05:29:36  
End at: 2018-10-10 05:30:06  
Local clock offset: 2.55 ms  
Remote clock offset: -2.789 ms

# Below is generated by plot.py at 2018-10-10 06:19:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.10 Mbit/s  
95th percentile per-packet one-way delay: 41.828 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 40.14 Mbit/s  
95th percentile per-packet one-way delay: 42.031 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 31.27 Mbit/s  
95th percentile per-packet one-way delay: 42.214 ms  
Loss rate: 0.38%  
-- Flow 3:  
Average throughput: 21.64 Mbit/s  
95th percentile per-packet one-way delay: 39.518 ms  
Loss rate: 1.08%

Run 4: Report of LEDBAT — Data Link

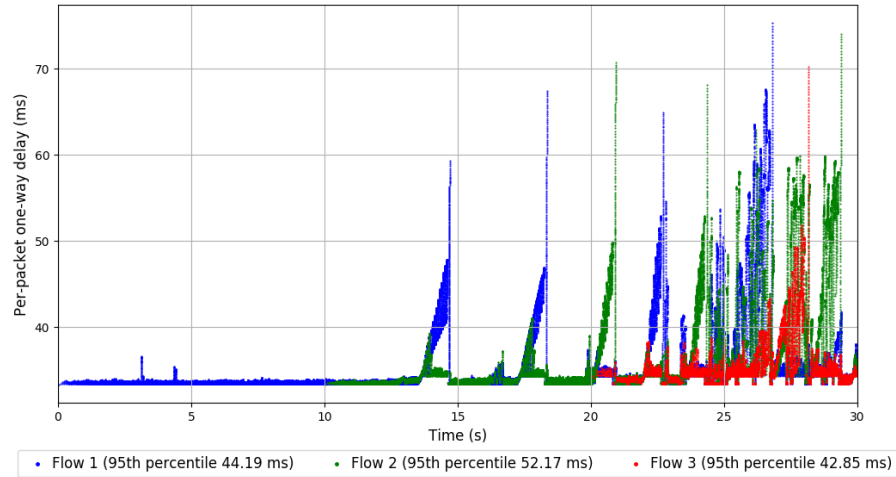
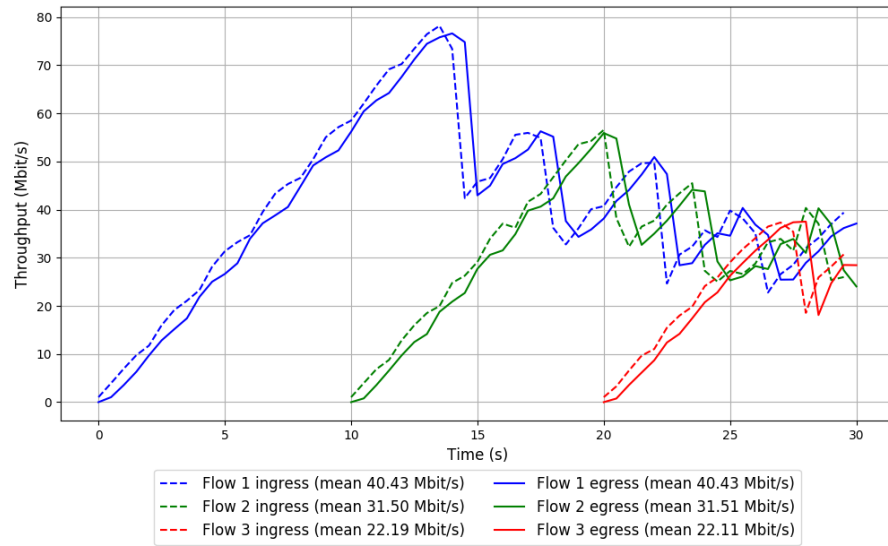


Run 5: Statistics of LEDBAT

Start at: 2018-10-10 05:54:43  
End at: 2018-10-10 05:55:13  
Local clock offset: 4.029 ms  
Remote clock offset: -2.355 ms

# Below is generated by plot.py at 2018-10-10 06:19:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.70 Mbit/s  
95th percentile per-packet one-way delay: 46.165 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 40.43 Mbit/s  
95th percentile per-packet one-way delay: 44.194 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 31.51 Mbit/s  
95th percentile per-packet one-way delay: 52.167 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 22.11 Mbit/s  
95th percentile per-packet one-way delay: 42.847 ms  
Loss rate: 1.00%

## Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Indigo-Muses

Start at: 2018-10-10 04:07:50

End at: 2018-10-10 04:08:20

Local clock offset: 5.21 ms

Remote clock offset: -4.57 ms

# Below is generated by plot.py at 2018-10-10 06:20:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 45.760 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 64.17 Mbit/s

95th percentile per-packet one-way delay: 43.710 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 35.73 Mbit/s

95th percentile per-packet one-way delay: 48.541 ms

Loss rate: 0.25%

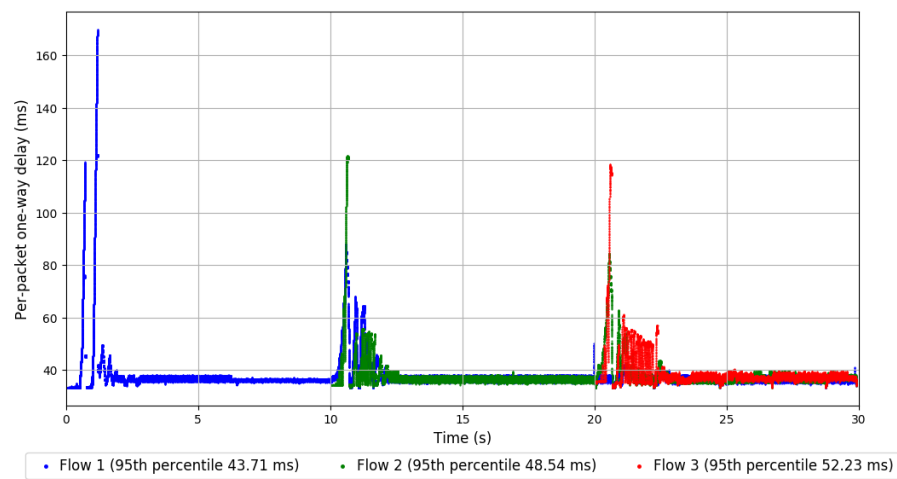
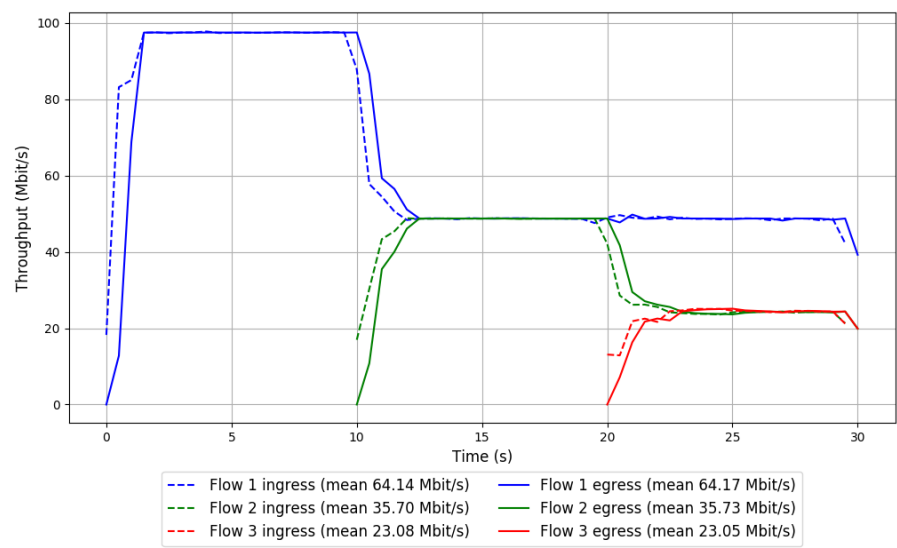
-- Flow 3:

Average throughput: 23.05 Mbit/s

95th percentile per-packet one-way delay: 52.235 ms

Loss rate: 0.77%

Run 1: Report of Indigo-Muses — Data Link



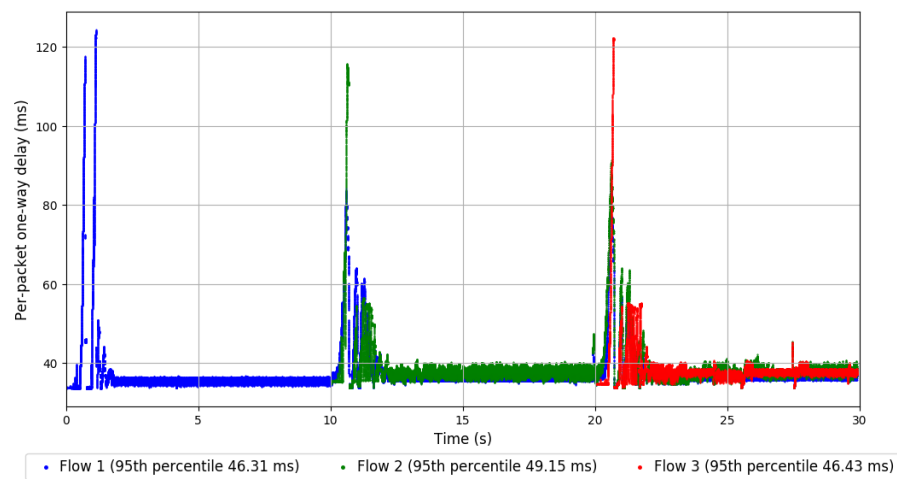
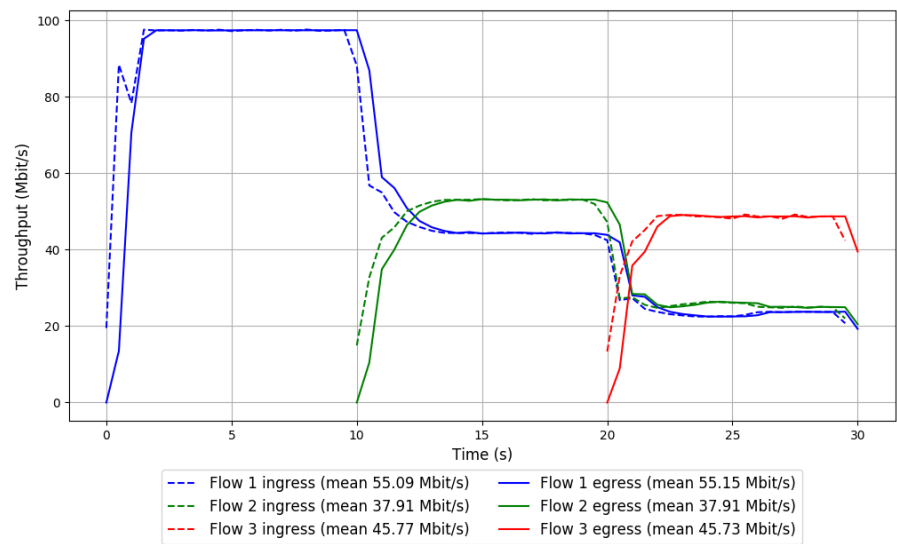


Run 2: Statistics of Indigo-Muses

Start at: 2018-10-10 04:33:05  
End at: 2018-10-10 04:33:35  
Local clock offset: 4.026 ms  
Remote clock offset: -4.247 ms

# Below is generated by plot.py at 2018-10-10 06:20:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.43 Mbit/s  
95th percentile per-packet one-way delay: 46.978 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 55.15 Mbit/s  
95th percentile per-packet one-way delay: 46.306 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 37.91 Mbit/s  
95th percentile per-packet one-way delay: 49.145 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 45.73 Mbit/s  
95th percentile per-packet one-way delay: 46.431 ms  
Loss rate: 0.72%

Run 2: Report of Indigo-Muses — Data Link

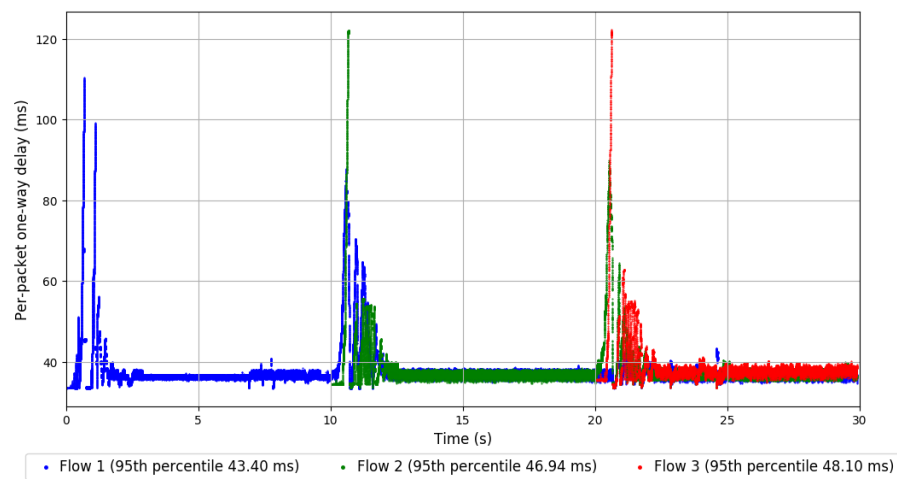
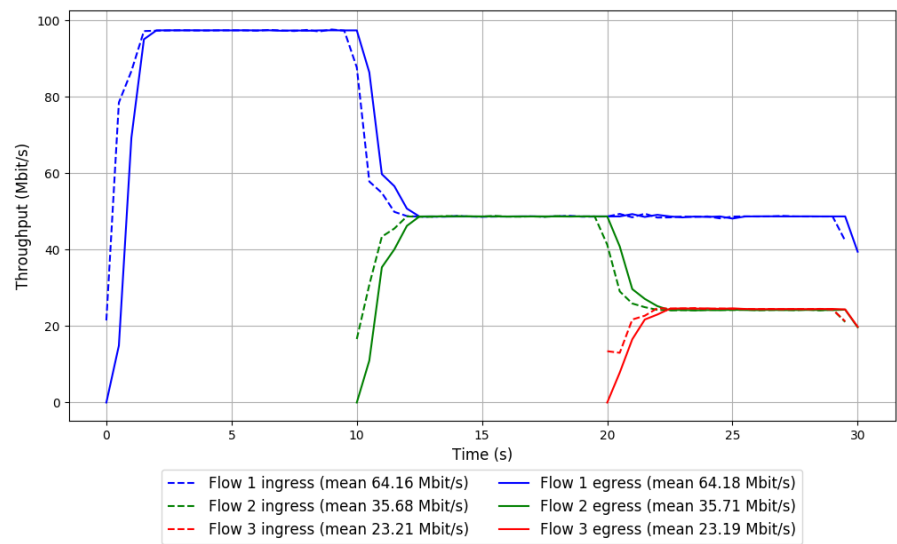


Run 3: Statistics of Indigo-Muses

Start at: 2018-10-10 04:58:02  
End at: 2018-10-10 04:58:32  
Local clock offset: 2.096 ms  
Remote clock offset: -3.533 ms

# Below is generated by plot.py at 2018-10-10 06:20:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.58 Mbit/s  
95th percentile per-packet one-way delay: 44.811 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 64.18 Mbit/s  
95th percentile per-packet one-way delay: 43.403 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 35.71 Mbit/s  
95th percentile per-packet one-way delay: 46.939 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 23.19 Mbit/s  
95th percentile per-packet one-way delay: 48.096 ms  
Loss rate: 0.71%

Run 3: Report of Indigo-Muses — Data Link

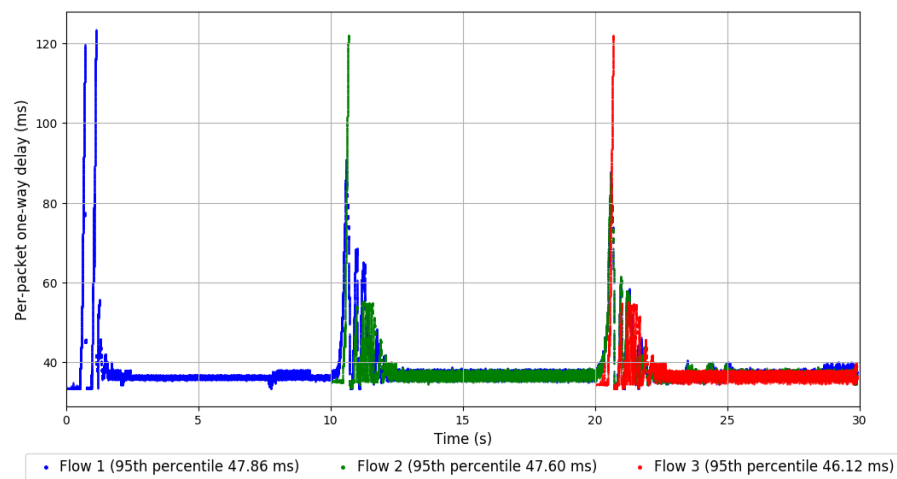
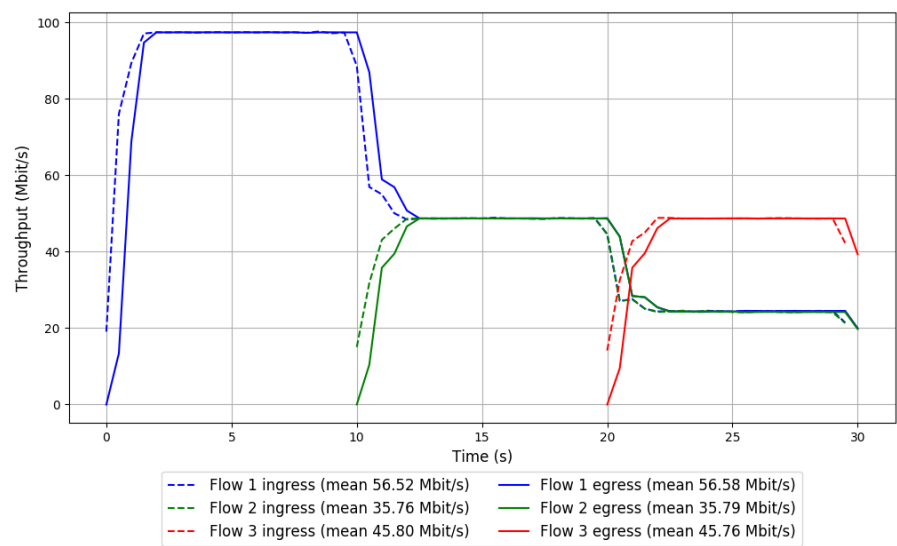


#### Run 4: Statistics of Indigo-Muses

Start at: 2018-10-10 05:22:50  
End at: 2018-10-10 05:23:20  
Local clock offset: 1.76 ms  
Remote clock offset: -2.875 ms

```
# Below is generated by plot.py at 2018-10-10 06:20:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 47.324 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 56.58 Mbit/s
95th percentile per-packet one-way delay: 47.857 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 35.79 Mbit/s
95th percentile per-packet one-way delay: 47.597 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 45.76 Mbit/s
95th percentile per-packet one-way delay: 46.123 ms
Loss rate: 0.72%
```

Run 4: Report of Indigo-Muses — Data Link

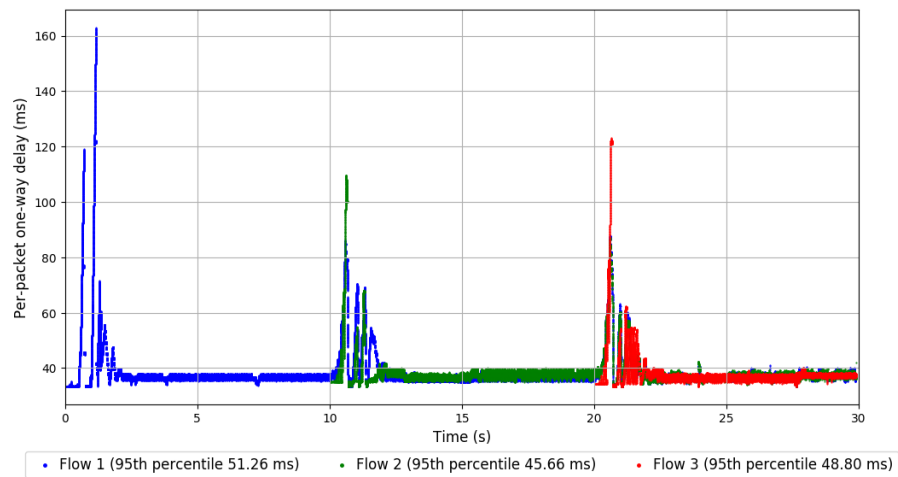
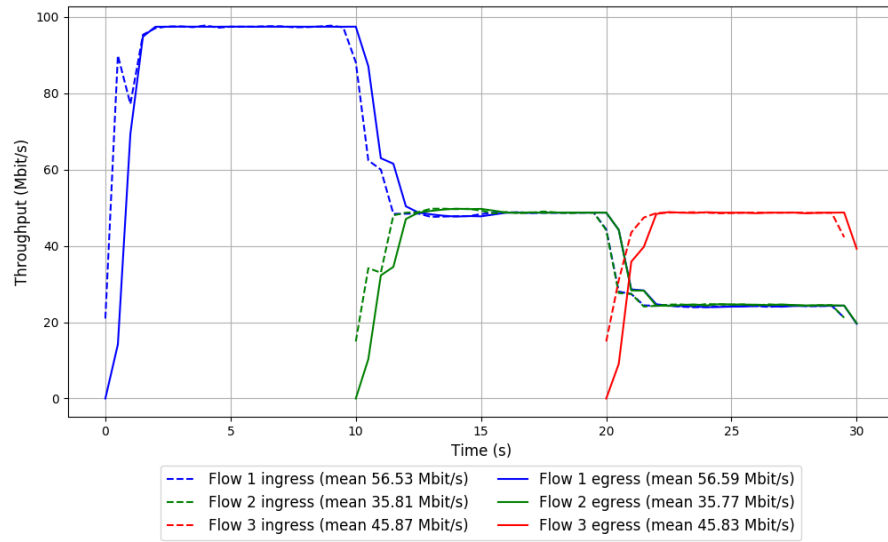


Run 5: Statistics of Indigo-Muses

Start at: 2018-10-10 05:47:40  
End at: 2018-10-10 05:48:10  
Local clock offset: 3.851 ms  
Remote clock offset: -2.519 ms

# Below is generated by plot.py at 2018-10-10 06:20:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.47 Mbit/s  
95th percentile per-packet one-way delay: 50.308 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 56.59 Mbit/s  
95th percentile per-packet one-way delay: 51.256 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 35.77 Mbit/s  
95th percentile per-packet one-way delay: 45.657 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 45.83 Mbit/s  
95th percentile per-packet one-way delay: 48.801 ms  
Loss rate: 0.73%

## Run 5: Report of Indigo-Muses — Data Link



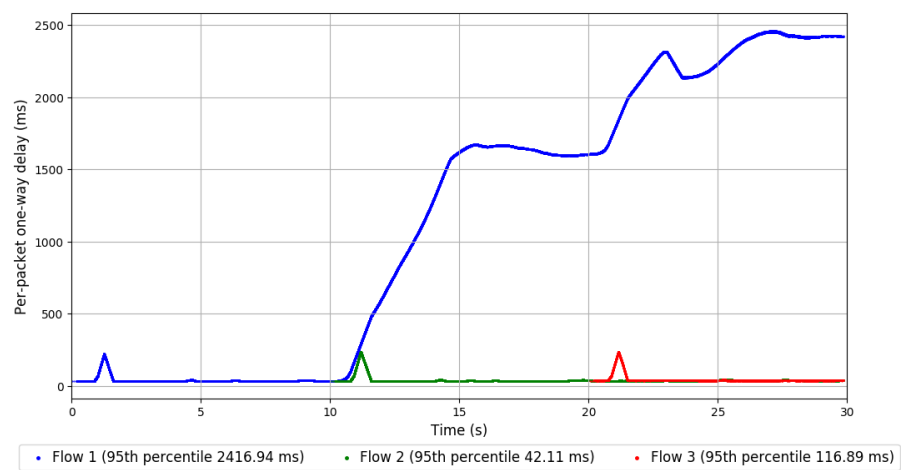
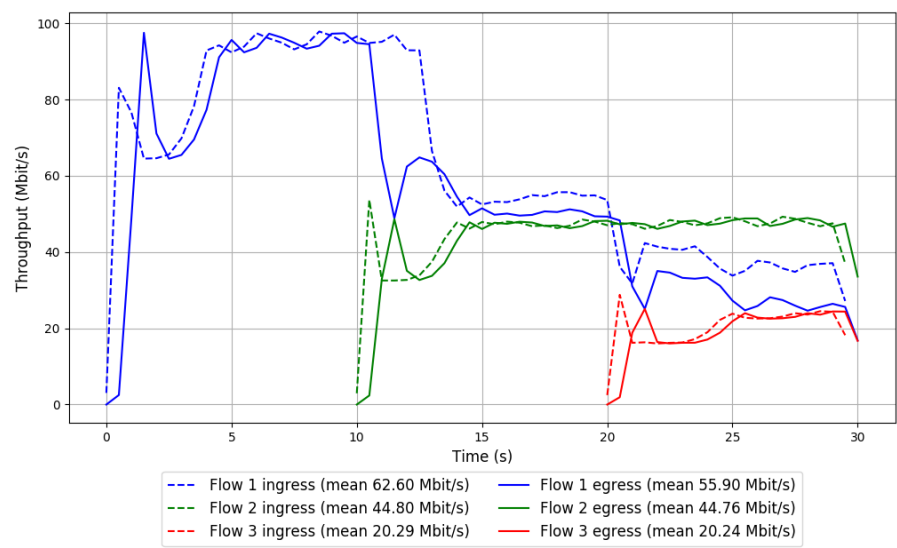


Run 1: Statistics of PCC-Allegro

Start at: 2018-10-10 04:27:34  
End at: 2018-10-10 04:28:04  
Local clock offset: 5.574 ms  
Remote clock offset: -4.262 ms

# Below is generated by plot.py at 2018-10-10 06:20:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.27 Mbit/s  
95th percentile per-packet one-way delay: 2263.887 ms  
Loss rate: 7.06%  
-- Flow 1:  
Average throughput: 55.90 Mbit/s  
95th percentile per-packet one-way delay: 2416.944 ms  
Loss rate: 10.88%  
-- Flow 2:  
Average throughput: 44.76 Mbit/s  
95th percentile per-packet one-way delay: 42.110 ms  
Loss rate: 0.42%  
-- Flow 3:  
Average throughput: 20.24 Mbit/s  
95th percentile per-packet one-way delay: 116.895 ms  
Loss rate: 0.91%

Run 1: Report of PCC-Allegro — Data Link

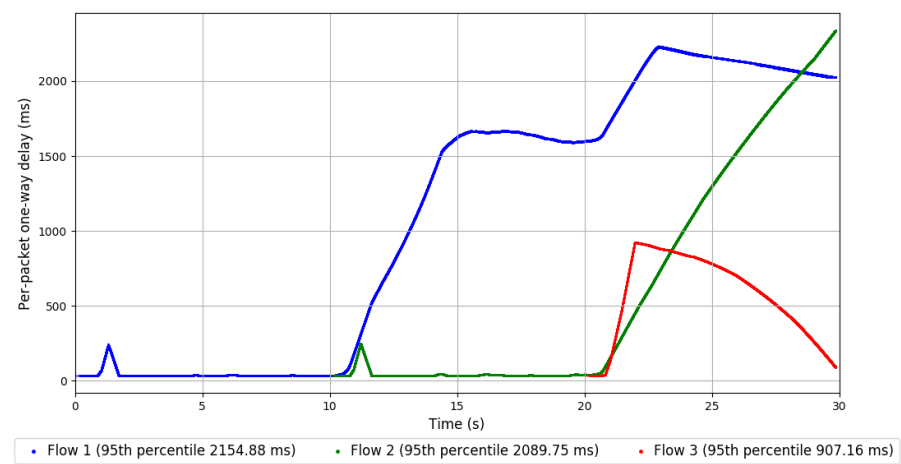
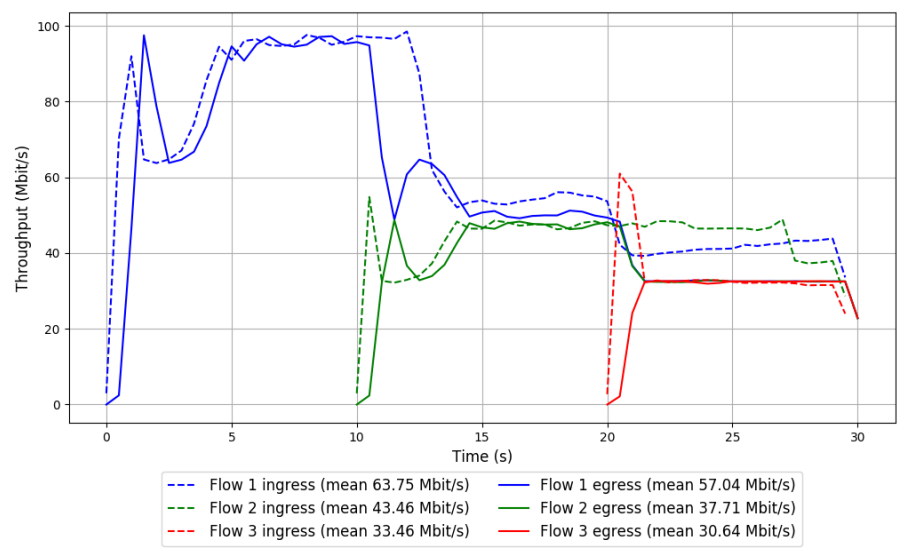


Run 2: Statistics of PCC-Allegro

Start at: 2018-10-10 04:52:30  
End at: 2018-10-10 04:53:00  
Local clock offset: 2.382 ms  
Remote clock offset: -3.625 ms

# Below is generated by plot.py at 2018-10-10 06:20:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.15 Mbit/s  
95th percentile per-packet one-way delay: 2138.134 ms  
Loss rate: 11.30%  
-- Flow 1:  
Average throughput: 57.04 Mbit/s  
95th percentile per-packet one-way delay: 2154.878 ms  
Loss rate: 10.70%  
-- Flow 2:  
Average throughput: 37.71 Mbit/s  
95th percentile per-packet one-way delay: 2089.748 ms  
Loss rate: 13.50%  
-- Flow 3:  
Average throughput: 30.64 Mbit/s  
95th percentile per-packet one-way delay: 907.161 ms  
Loss rate: 8.99%

Run 2: Report of PCC-Allegro — Data Link

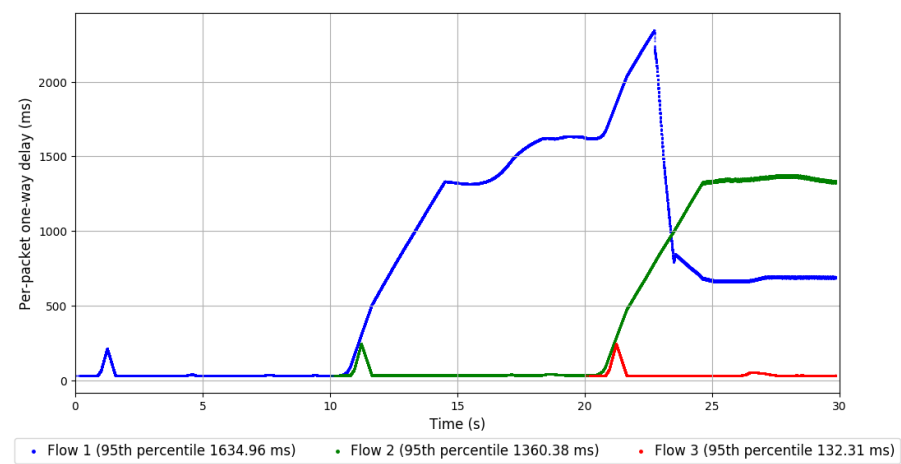
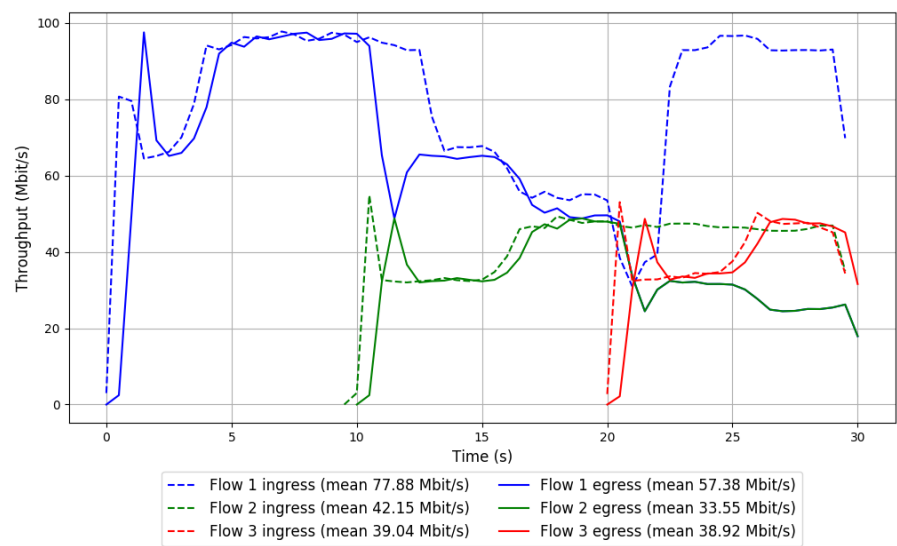


Run 3: Statistics of PCC-Allegro

Start at: 2018-10-10 05:17:19  
End at: 2018-10-10 05:17:49  
Local clock offset: 1.847 ms  
Remote clock offset: -2.912 ms

# Below is generated by plot.py at 2018-10-10 06:20:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.47 Mbit/s  
95th percentile per-packet one-way delay: 1623.336 ms  
Loss rate: 22.33%  
-- Flow 1:  
Average throughput: 57.38 Mbit/s  
95th percentile per-packet one-way delay: 1634.964 ms  
Loss rate: 26.48%  
-- Flow 2:  
Average throughput: 33.55 Mbit/s  
95th percentile per-packet one-way delay: 1360.382 ms  
Loss rate: 20.65%  
-- Flow 3:  
Average throughput: 38.92 Mbit/s  
95th percentile per-packet one-way delay: 132.314 ms  
Loss rate: 0.91%

Run 3: Report of PCC-Allegro — Data Link

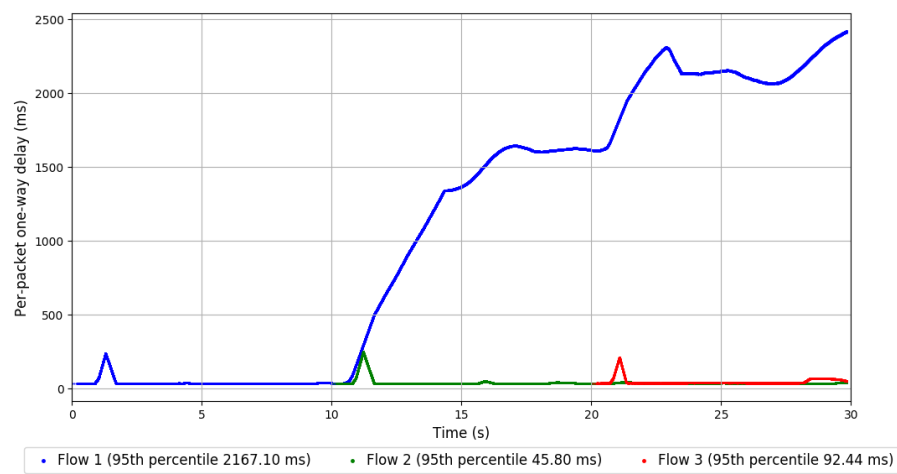
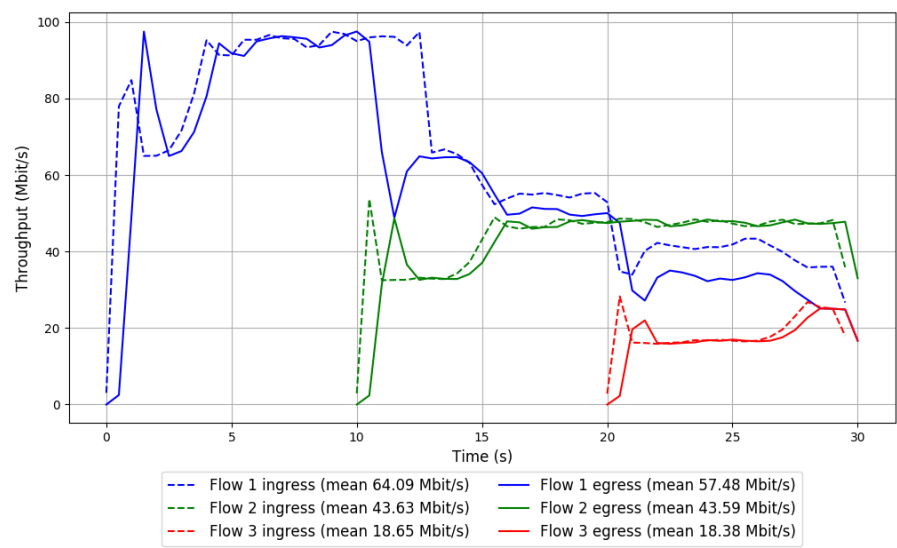


Run 4: Statistics of PCC-Allegro

Start at: 2018-10-10 05:42:06  
End at: 2018-10-10 05:42:36  
Local clock offset: 3.587 ms  
Remote clock offset: -2.471 ms

# Below is generated by plot.py at 2018-10-10 06:21:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.48 Mbit/s  
95th percentile per-packet one-way delay: 2137.370 ms  
Loss rate: 7.03%  
-- Flow 1:  
Average throughput: 57.48 Mbit/s  
95th percentile per-packet one-way delay: 2167.102 ms  
Loss rate: 10.50%  
-- Flow 2:  
Average throughput: 43.59 Mbit/s  
95th percentile per-packet one-way delay: 45.800 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 18.38 Mbit/s  
95th percentile per-packet one-way delay: 92.438 ms  
Loss rate: 2.09%

Run 4: Report of PCC-Allegro — Data Link



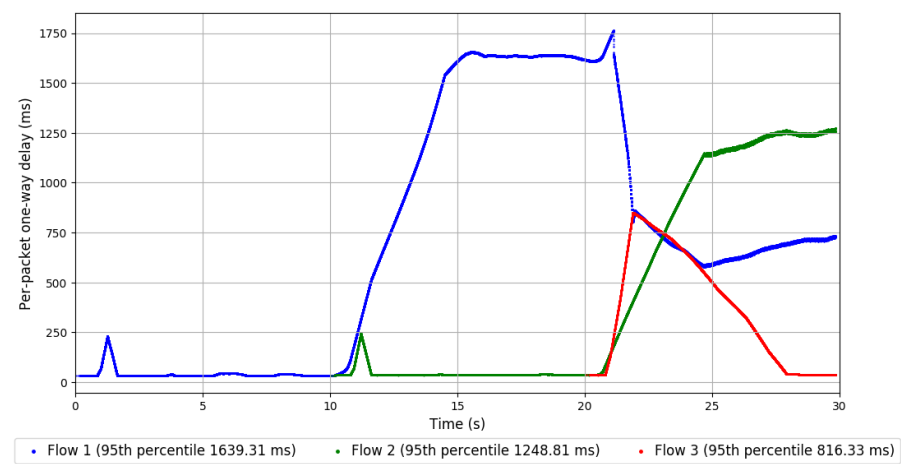
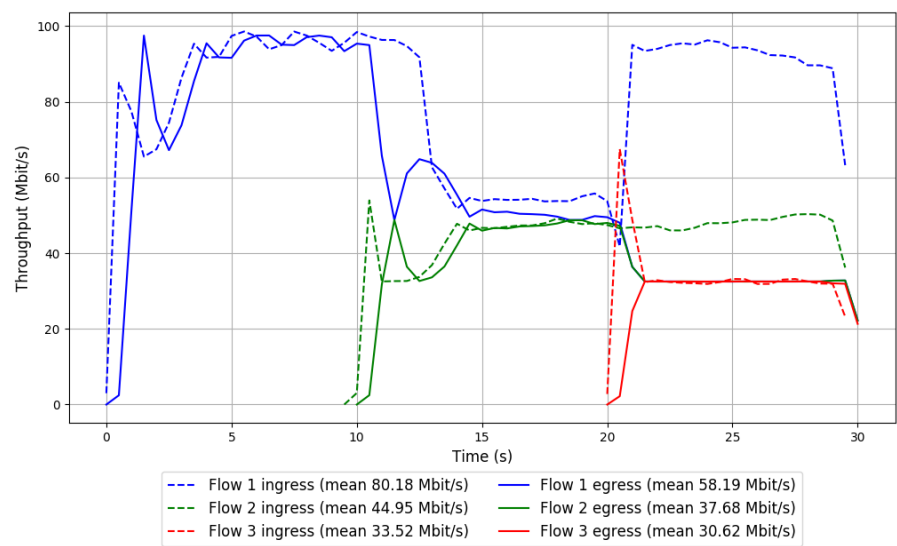


Run 5: Statistics of PCC-Allegro

Start at: 2018-10-10 06:07:16  
End at: 2018-10-10 06:07:46  
Local clock offset: 3.378 ms  
Remote clock offset: -2.429 ms

# Below is generated by plot.py at 2018-10-10 06:21:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.29 Mbit/s  
95th percentile per-packet one-way delay: 1637.051 ms  
Loss rate: 23.16%  
-- Flow 1:  
Average throughput: 58.19 Mbit/s  
95th percentile per-packet one-way delay: 1639.309 ms  
Loss rate: 27.58%  
-- Flow 2:  
Average throughput: 37.68 Mbit/s  
95th percentile per-packet one-way delay: 1248.811 ms  
Loss rate: 16.45%  
-- Flow 3:  
Average throughput: 30.62 Mbit/s  
95th percentile per-packet one-way delay: 816.325 ms  
Loss rate: 9.26%

Run 5: Report of PCC-Allegro — Data Link

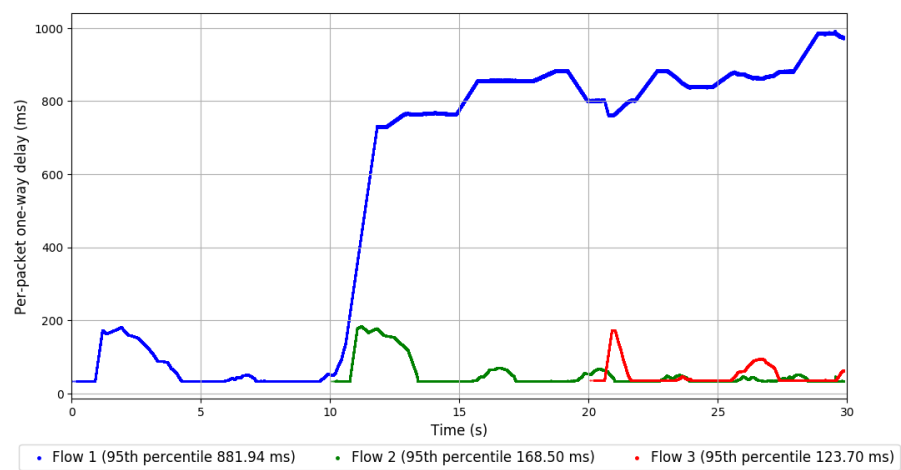
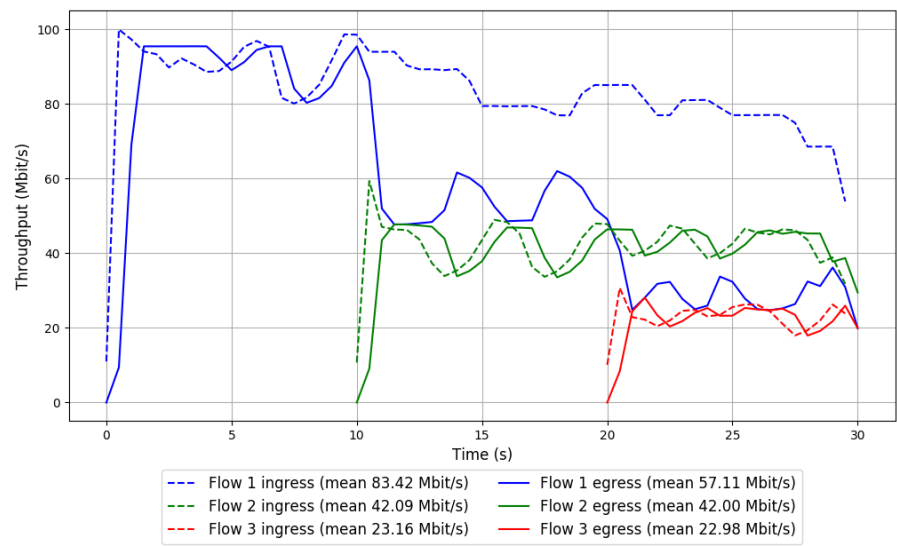


Run 1: Statistics of PCC-Expr

Start at: 2018-10-10 04:30:14  
End at: 2018-10-10 04:30:44  
Local clock offset: 4.709 ms  
Remote clock offset: -4.148 ms

# Below is generated by plot.py at 2018-10-10 06:22:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.57 Mbit/s  
95th percentile per-packet one-way delay: 874.685 ms  
Loss rate: 22.42%  
-- Flow 1:  
Average throughput: 57.11 Mbit/s  
95th percentile per-packet one-way delay: 881.937 ms  
Loss rate: 31.69%  
-- Flow 2:  
Average throughput: 42.00 Mbit/s  
95th percentile per-packet one-way delay: 168.500 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 22.98 Mbit/s  
95th percentile per-packet one-way delay: 123.699 ms  
Loss rate: 1.41%

Run 1: Report of PCC-Expr — Data Link

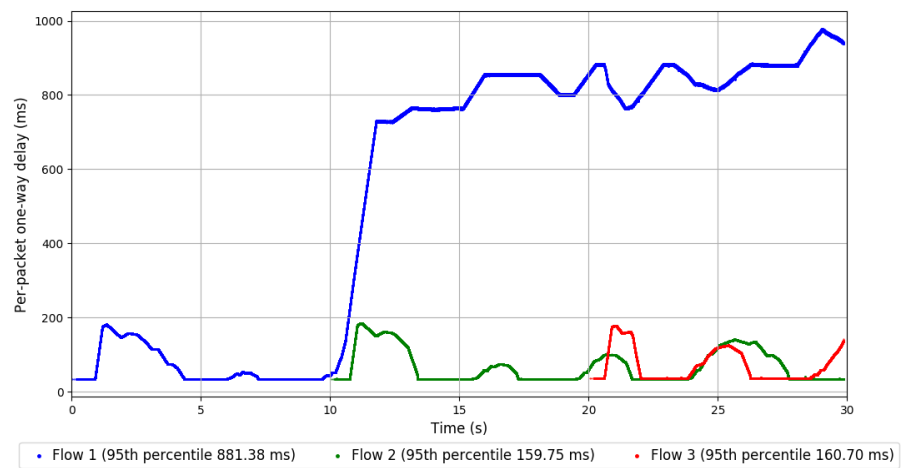
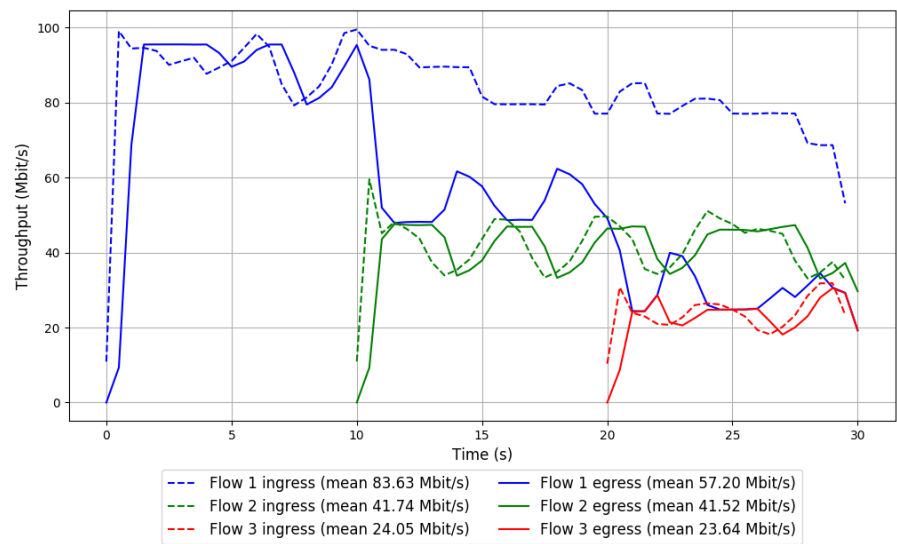


Run 2: Statistics of PCC-Expr

Start at: 2018-10-10 04:55:10  
End at: 2018-10-10 04:55:40  
Local clock offset: 2.131 ms  
Remote clock offset: -3.574 ms

# Below is generated by plot.py at 2018-10-10 06:22:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.55 Mbit/s  
95th percentile per-packet one-way delay: 875.010 ms  
Loss rate: 22.61%  
-- Flow 1:  
Average throughput: 57.20 Mbit/s  
95th percentile per-packet one-way delay: 881.378 ms  
Loss rate: 31.76%  
-- Flow 2:  
Average throughput: 41.52 Mbit/s  
95th percentile per-packet one-way delay: 159.754 ms  
Loss rate: 0.86%  
-- Flow 3:  
Average throughput: 23.64 Mbit/s  
95th percentile per-packet one-way delay: 160.698 ms  
Loss rate: 2.34%

Run 2: Report of PCC-Expr — Data Link

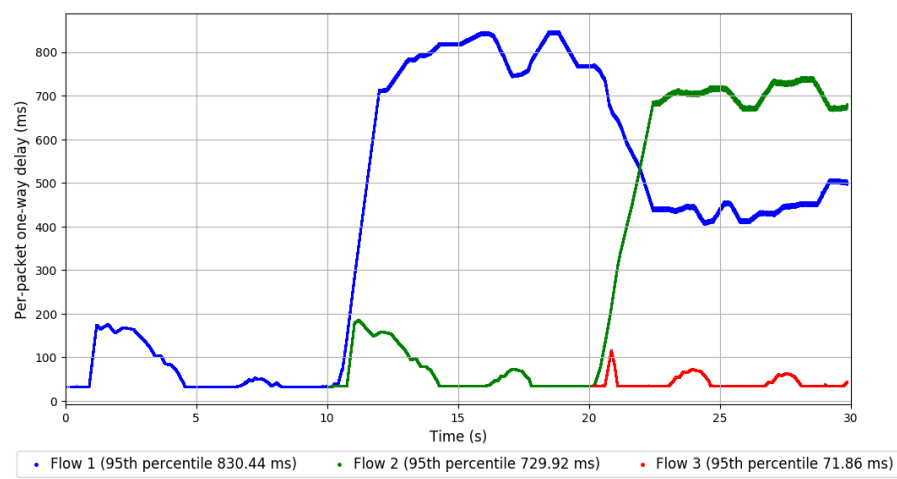
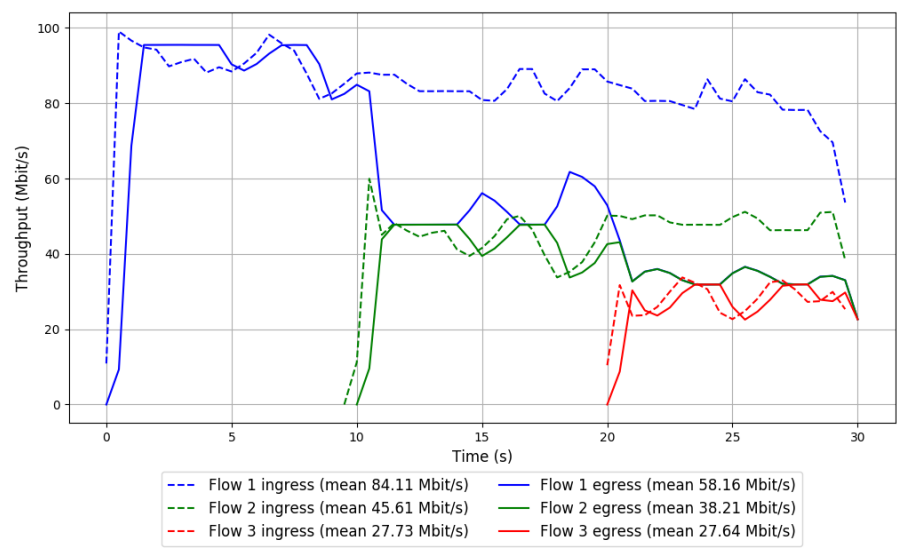


Run 3: Statistics of PCC-Expr

Start at: 2018-10-10 05:20:00  
End at: 2018-10-10 05:20:30  
Local clock offset: 1.785 ms  
Remote clock offset: -3.001 ms

# Below is generated by plot.py at 2018-10-10 06:22:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.65 Mbit/s  
95th percentile per-packet one-way delay: 819.465 ms  
Loss rate: 25.22%  
-- Flow 1:  
Average throughput: 58.16 Mbit/s  
95th percentile per-packet one-way delay: 830.437 ms  
Loss rate: 31.00%  
-- Flow 2:  
Average throughput: 38.21 Mbit/s  
95th percentile per-packet one-way delay: 729.923 ms  
Loss rate: 16.49%  
-- Flow 3:  
Average throughput: 27.64 Mbit/s  
95th percentile per-packet one-way delay: 71.858 ms  
Loss rate: 0.99%

Run 3: Report of PCC-Expr — Data Link



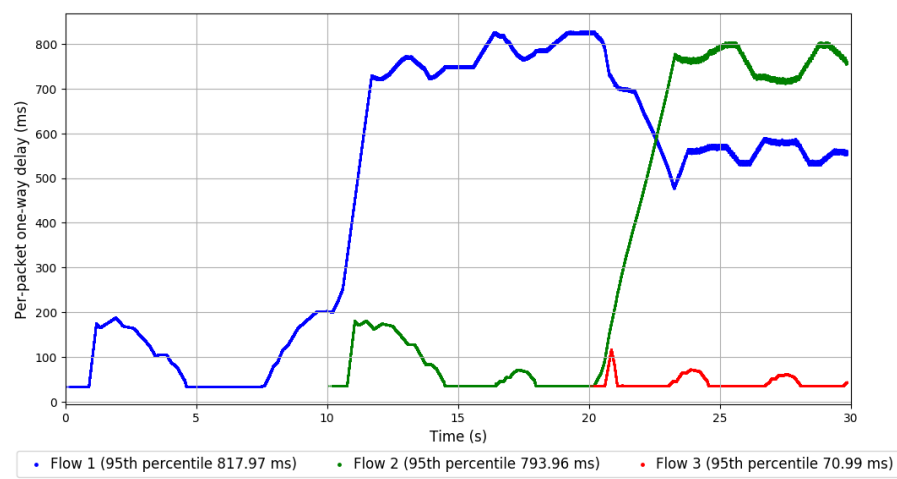
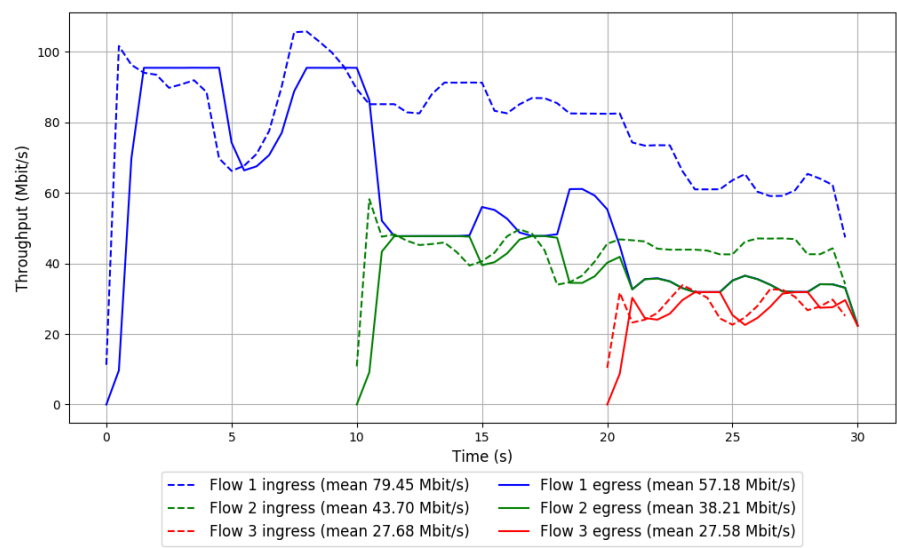


Run 4: Statistics of PCC-Expr

Start at: 2018-10-10 05:44:46  
End at: 2018-10-10 05:45:16  
Local clock offset: 3.716 ms  
Remote clock offset: -2.729 ms

# Below is generated by plot.py at 2018-10-10 06:22:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.65 Mbit/s  
95th percentile per-packet one-way delay: 802.209 ms  
Loss rate: 22.28%  
-- Flow 1:  
Average throughput: 57.18 Mbit/s  
95th percentile per-packet one-way delay: 817.968 ms  
Loss rate: 28.17%  
-- Flow 2:  
Average throughput: 38.21 Mbit/s  
95th percentile per-packet one-way delay: 793.955 ms  
Loss rate: 12.85%  
-- Flow 3:  
Average throughput: 27.58 Mbit/s  
95th percentile per-packet one-way delay: 70.992 ms  
Loss rate: 1.04%

Run 4: Report of PCC-Expr — Data Link

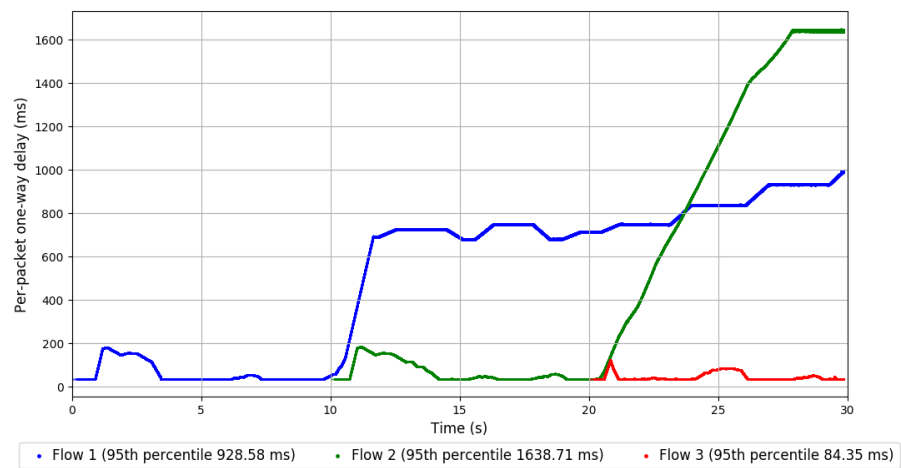
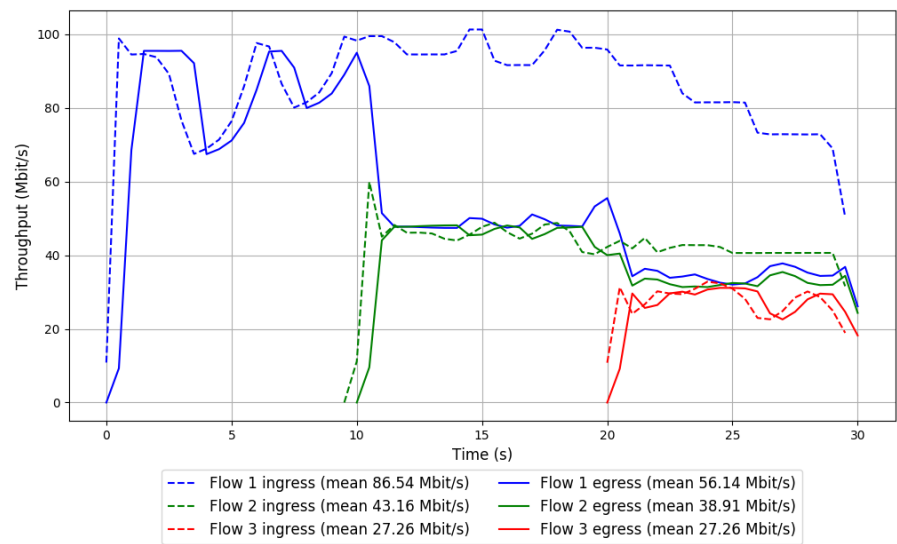


Run 5: Statistics of PCC-Expr

Start at: 2018-10-10 06:10:02  
End at: 2018-10-10 06:10:32  
Local clock offset: 3.329 ms  
Remote clock offset: -2.608 ms

# Below is generated by plot.py at 2018-10-10 06:22:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.97 Mbit/s  
95th percentile per-packet one-way delay: 1251.481 ms  
Loss rate: 26.95%  
-- Flow 1:  
Average throughput: 56.14 Mbit/s  
95th percentile per-packet one-way delay: 928.575 ms  
Loss rate: 35.27%  
-- Flow 2:  
Average throughput: 38.91 Mbit/s  
95th percentile per-packet one-way delay: 1638.706 ms  
Loss rate: 10.14%  
-- Flow 3:  
Average throughput: 27.26 Mbit/s  
95th percentile per-packet one-way delay: 84.348 ms  
Loss rate: 0.65%

Run 5: Report of PCC-Expr — Data Link

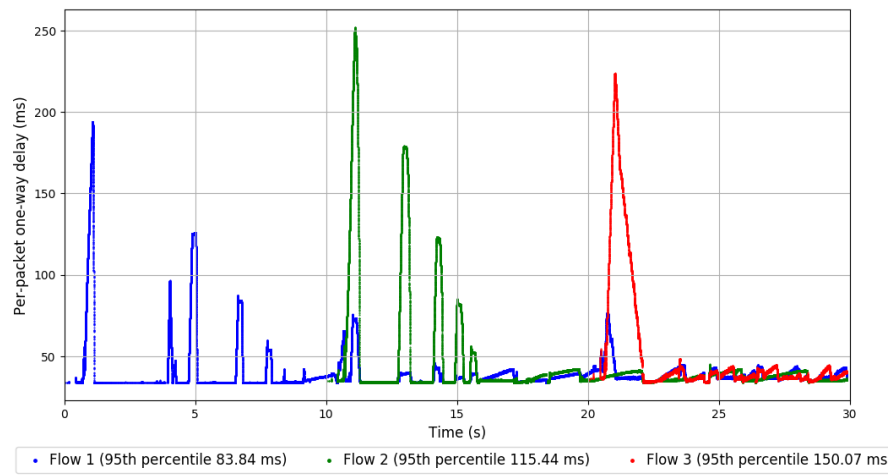
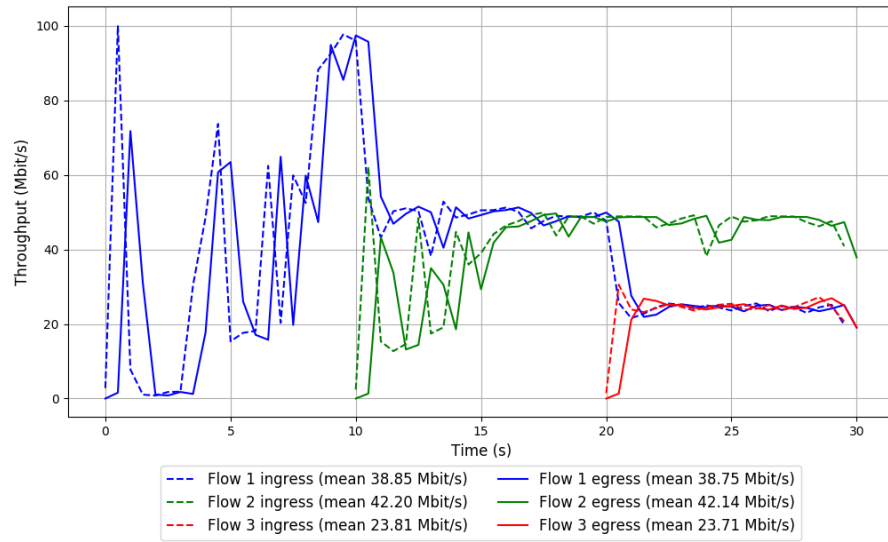


Run 1: Statistics of QUIC Cubic

Start at: 2018-10-10 04:26:11  
End at: 2018-10-10 04:26:41  
Local clock offset: 6.137 ms  
Remote clock offset: -4.284 ms

# Below is generated by plot.py at 2018-10-10 06:22:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.58 Mbit/s  
95th percentile per-packet one-way delay: 103.907 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 38.75 Mbit/s  
95th percentile per-packet one-way delay: 83.843 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 42.14 Mbit/s  
95th percentile per-packet one-way delay: 115.442 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 23.71 Mbit/s  
95th percentile per-packet one-way delay: 150.068 ms  
Loss rate: 1.03%

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

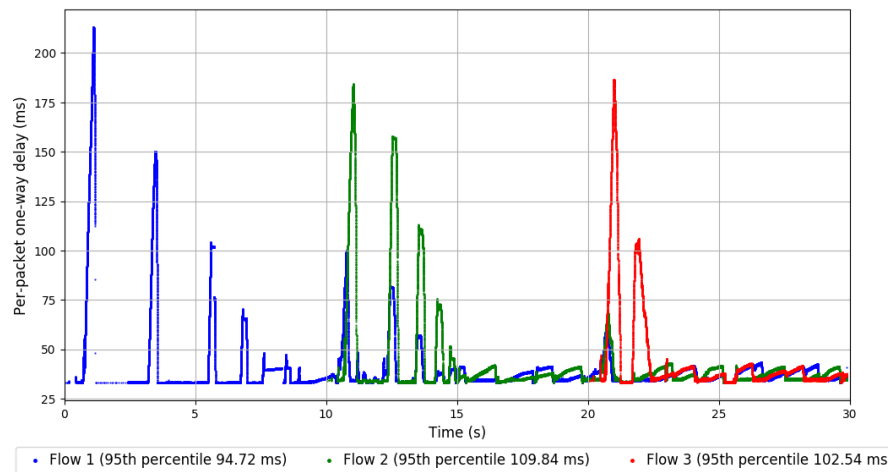
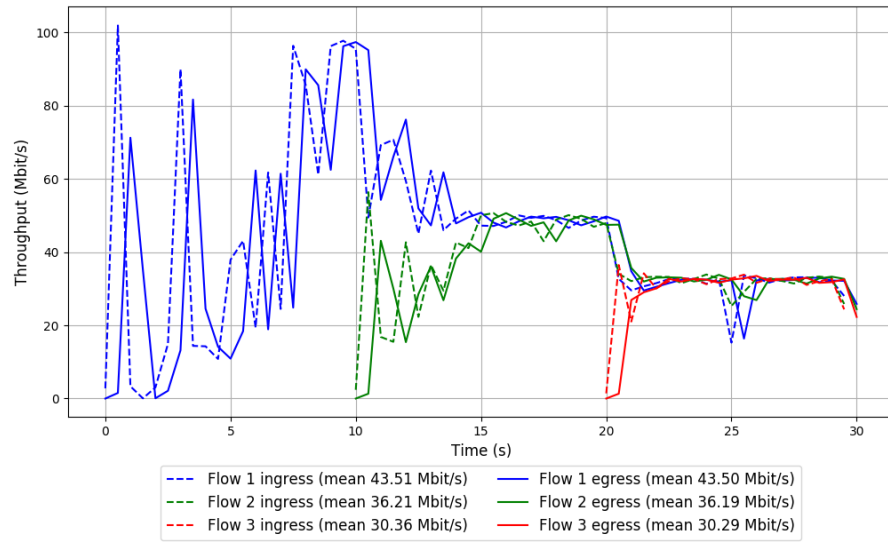


Run 2: Statistics of QUIC Cubic

Start at: 2018-10-10 04:51:08  
End at: 2018-10-10 04:51:38  
Local clock offset: 2.121 ms  
Remote clock offset: -3.632 ms

# Below is generated by plot.py at 2018-10-10 06:22:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.54 Mbit/s  
95th percentile per-packet one-way delay: 101.405 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 43.50 Mbit/s  
95th percentile per-packet one-way delay: 94.724 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 36.19 Mbit/s  
95th percentile per-packet one-way delay: 109.837 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 30.29 Mbit/s  
95th percentile per-packet one-way delay: 102.537 ms  
Loss rate: 0.90%

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



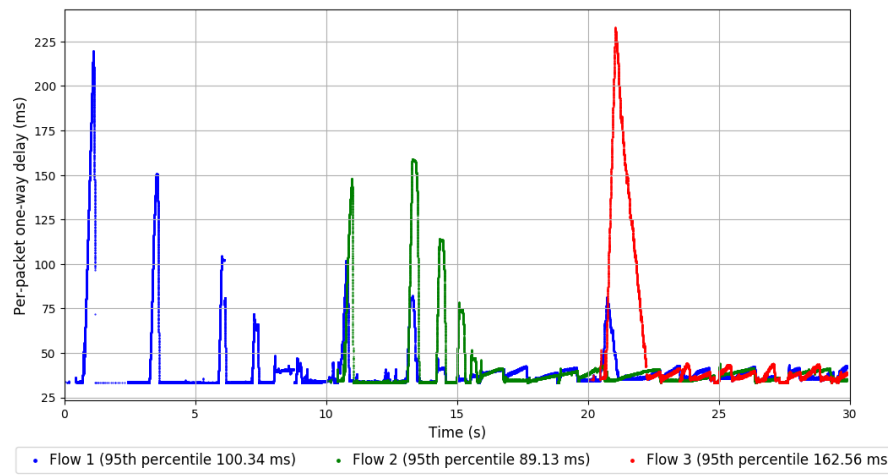
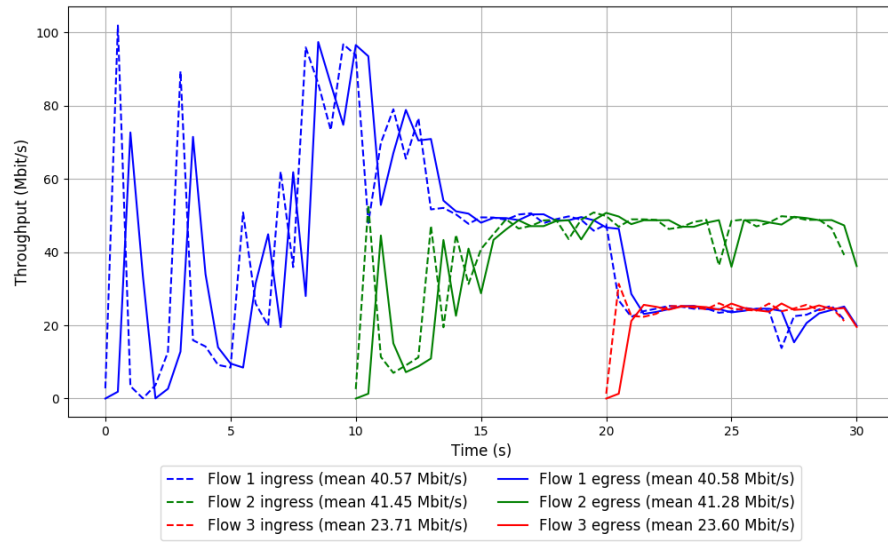


Run 3: Statistics of QUIC Cubic

Start at: 2018-10-10 05:15:57  
End at: 2018-10-10 05:16:27  
Local clock offset: 1.836 ms  
Remote clock offset: -3.102 ms

# Below is generated by plot.py at 2018-10-10 06:22:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.79 Mbit/s  
95th percentile per-packet one-way delay: 102.424 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 40.58 Mbit/s  
95th percentile per-packet one-way delay: 100.344 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 41.28 Mbit/s  
95th percentile per-packet one-way delay: 89.132 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 23.60 Mbit/s  
95th percentile per-packet one-way delay: 162.555 ms  
Loss rate: 1.12%

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

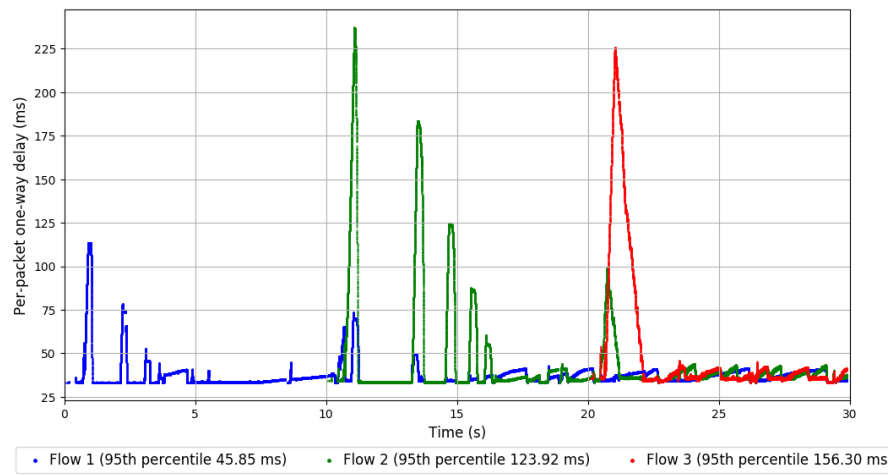
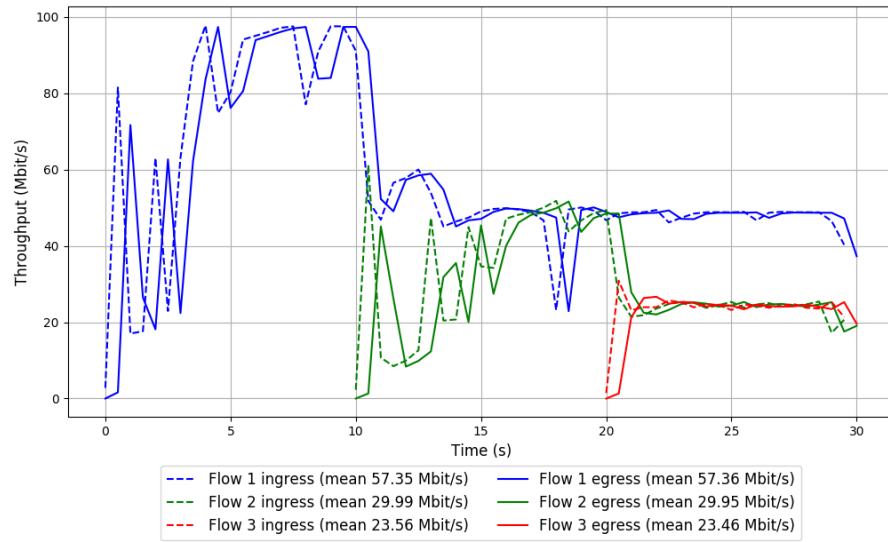


Run 4: Statistics of QUIC Cubic

Start at: 2018-10-10 05:40:44  
End at: 2018-10-10 05:41:14  
Local clock offset: 3.533 ms  
Remote clock offset: -2.563 ms

# Below is generated by plot.py at 2018-10-10 06:23:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.99 Mbit/s  
95th percentile per-packet one-way delay: 74.040 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 57.36 Mbit/s  
95th percentile per-packet one-way delay: 45.852 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 29.95 Mbit/s  
95th percentile per-packet one-way delay: 123.925 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 23.46 Mbit/s  
95th percentile per-packet one-way delay: 156.304 ms  
Loss rate: 1.07%

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

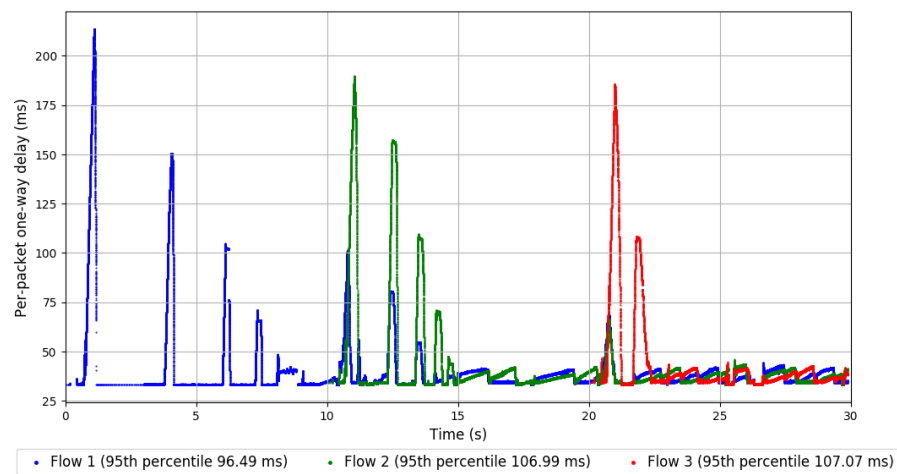
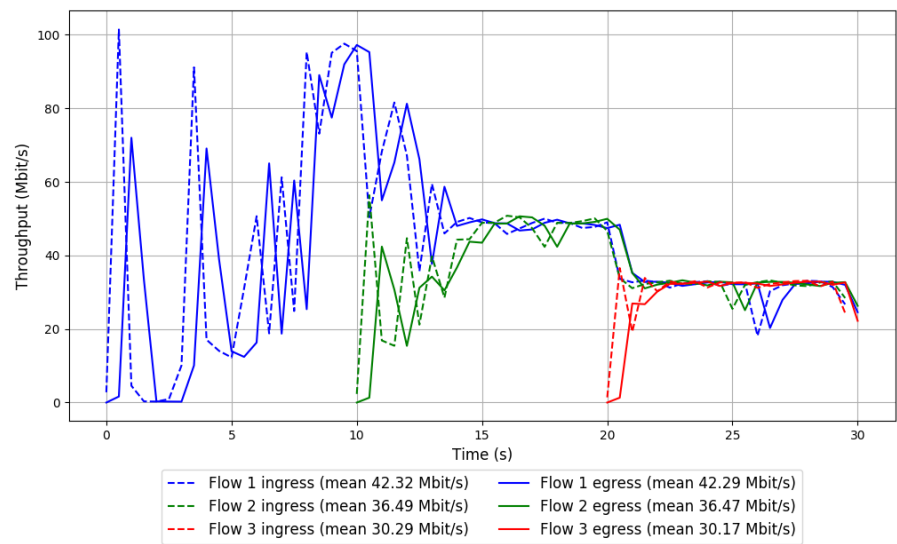


Run 5: Statistics of QUIC Cubic

Start at: 2018-10-10 06:05:51  
End at: 2018-10-10 06:06:21  
Local clock offset: 3.43 ms  
Remote clock offset: -2.351 ms

# Below is generated by plot.py at 2018-10-10 06:23:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.46 Mbit/s  
95th percentile per-packet one-way delay: 101.929 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 42.29 Mbit/s  
95th percentile per-packet one-way delay: 96.487 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 36.47 Mbit/s  
95th percentile per-packet one-way delay: 106.988 ms  
Loss rate: 0.39%  
-- Flow 3:  
Average throughput: 30.17 Mbit/s  
95th percentile per-packet one-way delay: 107.071 ms  
Loss rate: 1.05%

Run 5: Report of QUIC Cubic — Data Link

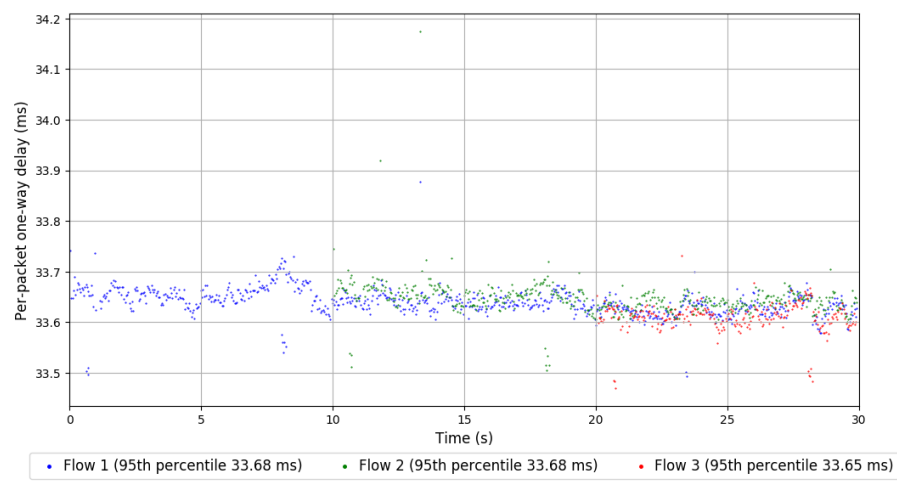
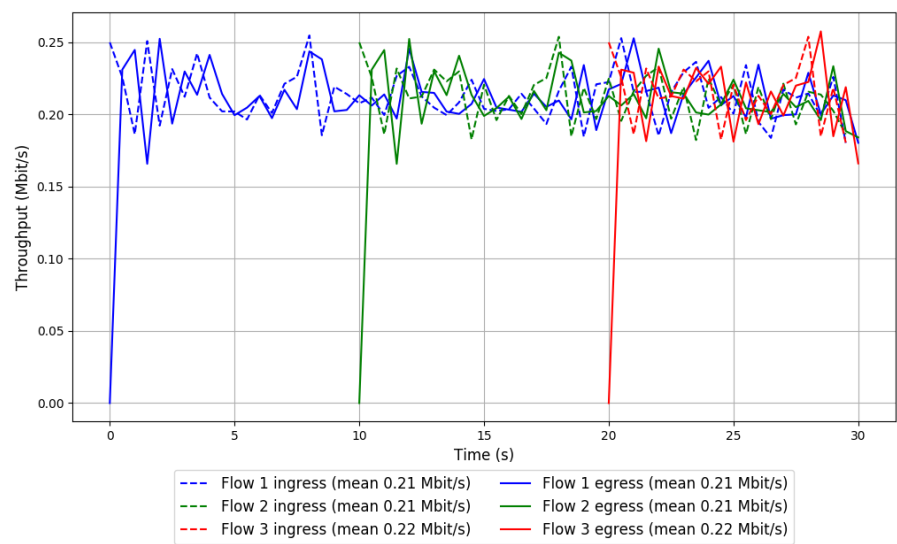


```
Run 1: Statistics of SReAM

Start at: 2018-10-10 04:13:21
End at: 2018-10-10 04:13:51
Local clock offset: 5.762 ms
Remote clock offset: -4.712 ms

# Below is generated by plot.py at 2018-10-10 06:23:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 33.677 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.678 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 33.680 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 33.647 ms
Loss rate: 0.71%
```

Run 1: Report of SReAM — Data Link



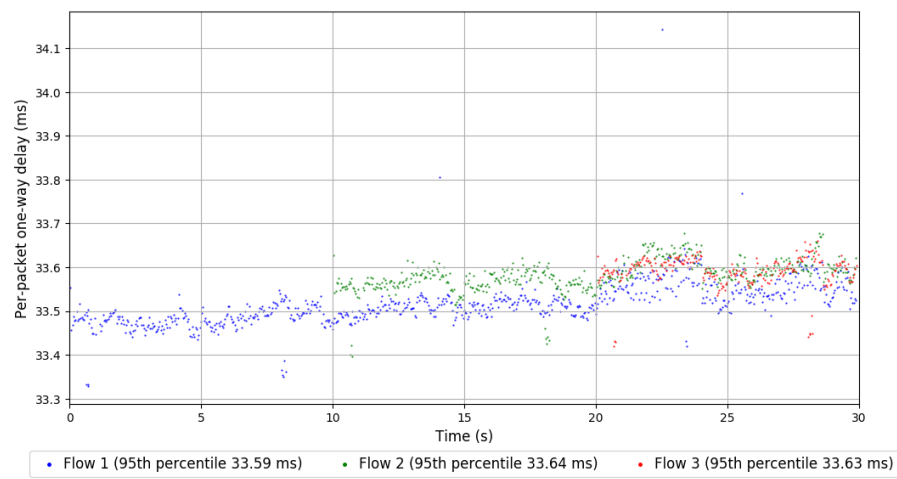
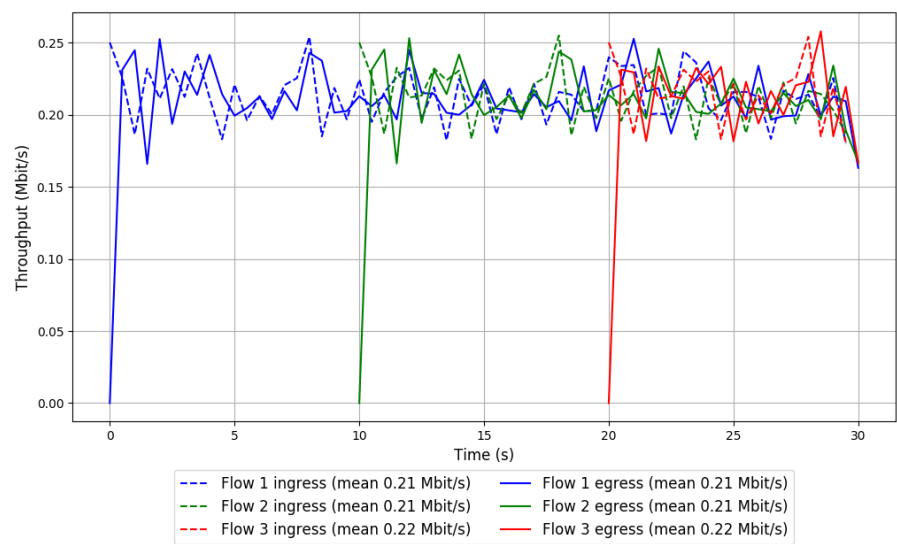


Run 2: Statistics of SReAM

Start at: 2018-10-10 04:38:35  
End at: 2018-10-10 04:39:05  
Local clock offset: 3.13 ms  
Remote clock offset: -3.906 ms

# Below is generated by plot.py at 2018-10-10 06:23:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 33.626 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.593 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.644 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 33.628 ms  
Loss rate: 0.71%

Run 2: Report of SReAM — Data Link

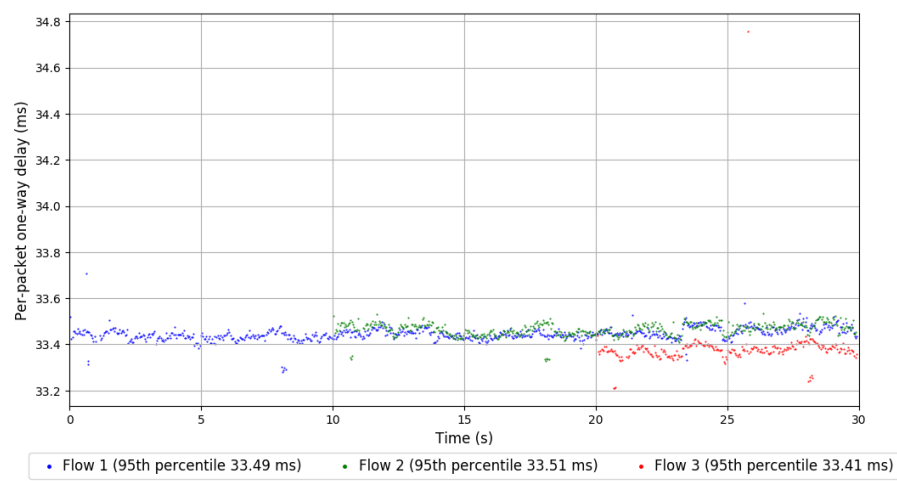
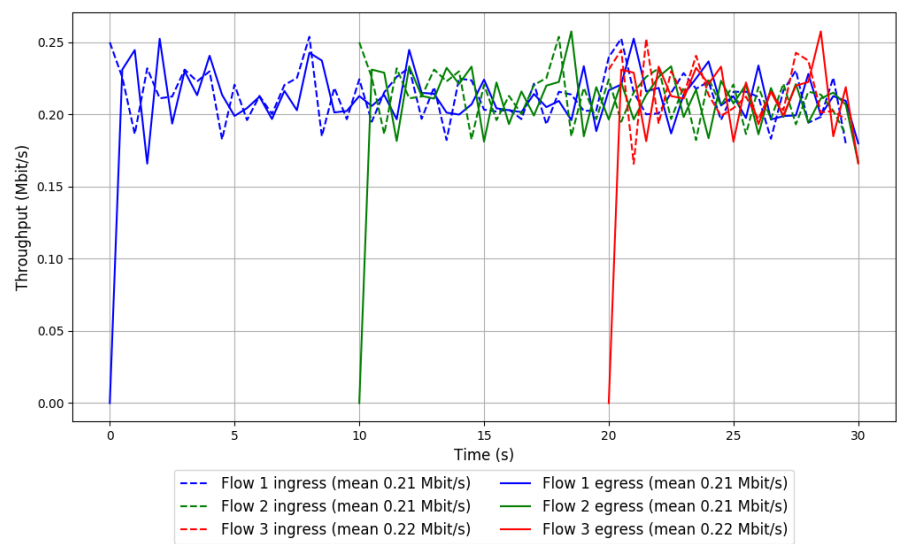


Run 3: Statistics of SReAM

Start at: 2018-10-10 05:03:30  
End at: 2018-10-10 05:04:00  
Local clock offset: 2.023 ms  
Remote clock offset: -3.187 ms

# Below is generated by plot.py at 2018-10-10 06:23:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 33.497 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.488 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.506 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 33.413 ms  
Loss rate: 0.71%

Run 3: Report of SCRaM — Data Link

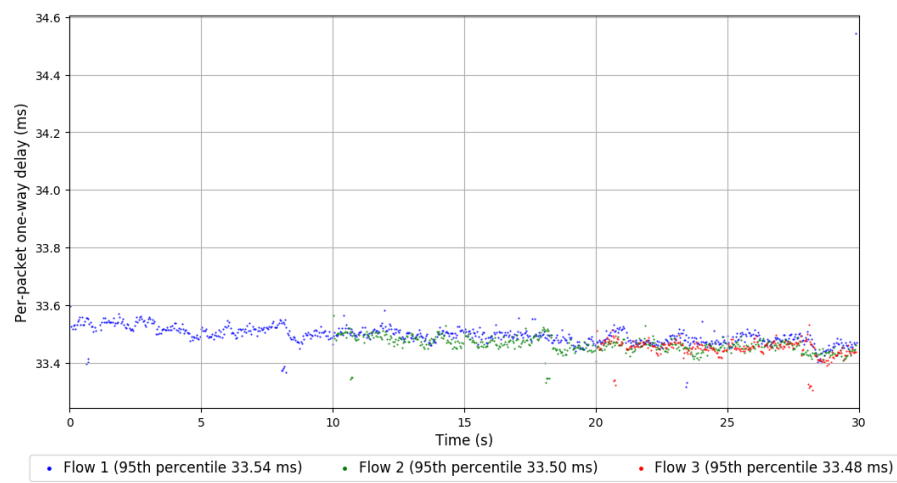
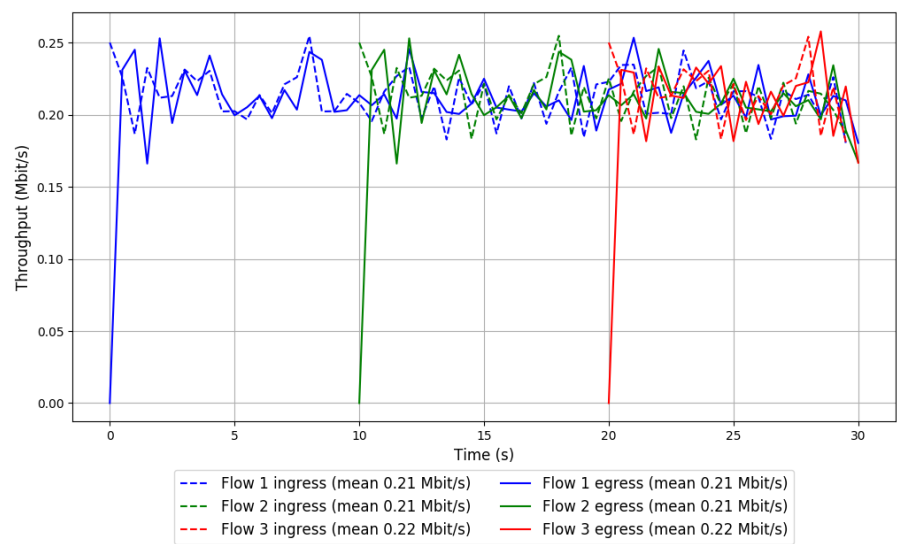


Run 4: Statistics of SReAM

Start at: 2018-10-10 05:28:18  
End at: 2018-10-10 05:28:48  
Local clock offset: 2.346 ms  
Remote clock offset: -2.934 ms

# Below is generated by plot.py at 2018-10-10 06:23:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 33.533 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.543 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.504 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 33.485 ms  
Loss rate: 0.71%

Run 4: Report of SReAM — Data Link

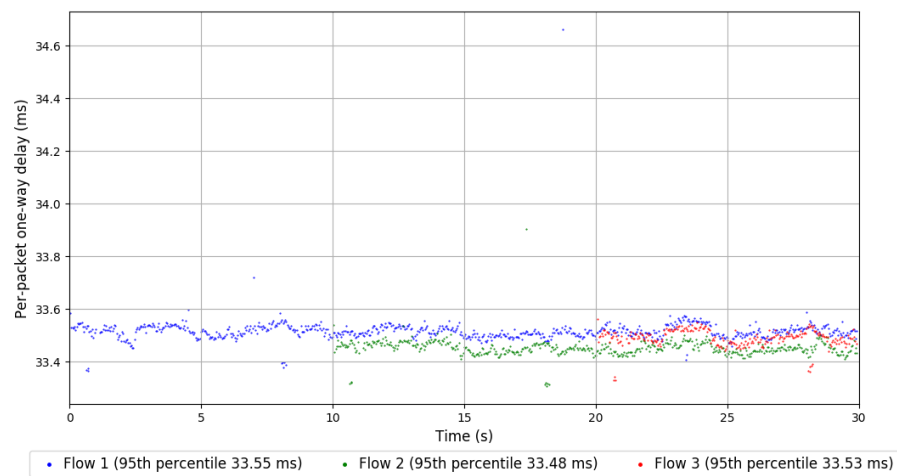
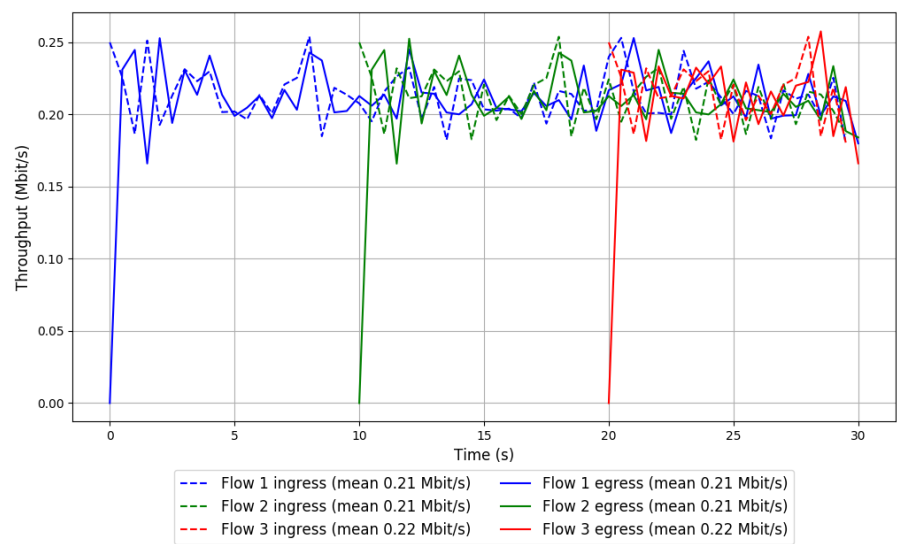


Run 5: Statistics of SCReAM

Start at: 2018-10-10 05:53:25  
End at: 2018-10-10 05:53:55  
Local clock offset: 3.997 ms  
Remote clock offset: -2.493 ms

# Below is generated by plot.py at 2018-10-10 06:23:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 33.545 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.552 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.484 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 33.534 ms  
Loss rate: 0.71%

Run 5: Report of SReAM — Data Link





Run 1: Statistics of Sprout

Start at: 2018-10-10 04:12:02

End at: 2018-10-10 04:12:32

Local clock offset: 5.643 ms

Remote clock offset: -4.53 ms

# Below is generated by plot.py at 2018-10-10 06:23:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 23.86 Mbit/s

95th percentile per-packet one-way delay: 41.706 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 12.07 Mbit/s

95th percentile per-packet one-way delay: 41.697 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 41.550 ms

Loss rate: 0.40%

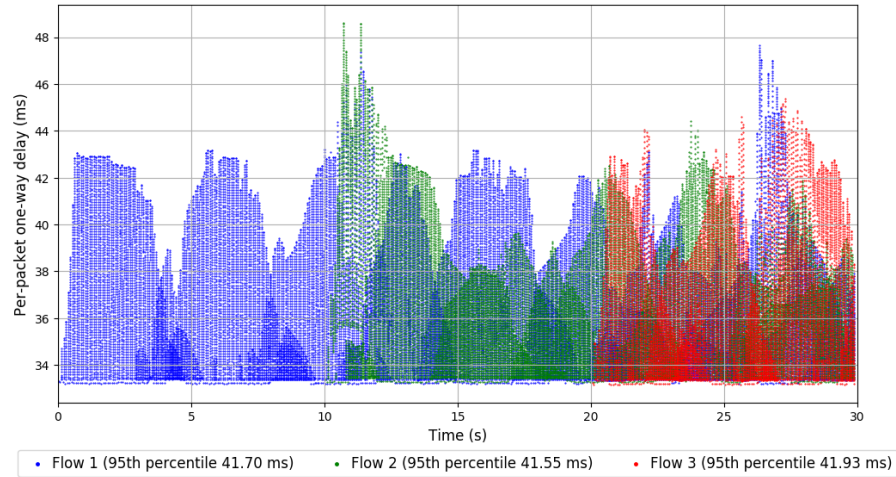
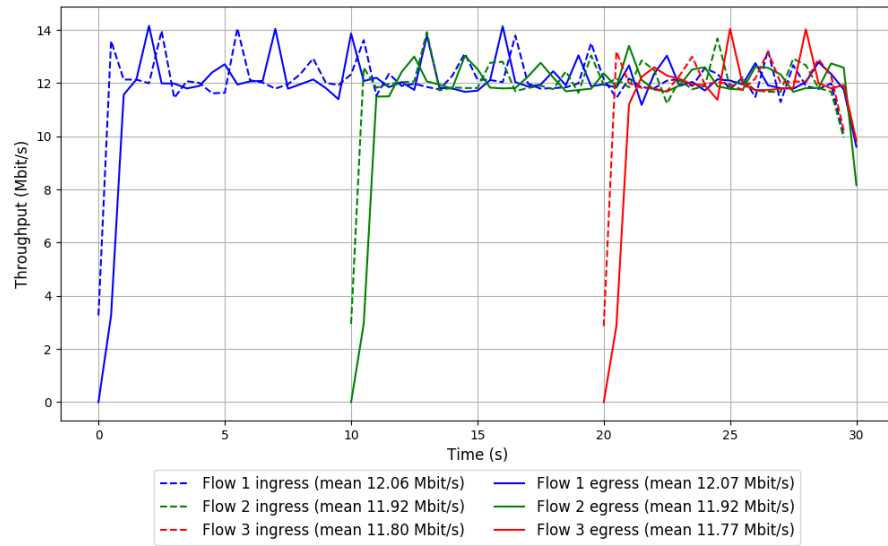
-- Flow 3:

Average throughput: 11.77 Mbit/s

95th percentile per-packet one-way delay: 41.929 ms

Loss rate: 0.83%

## Run 1: Report of Sprout — Data Link

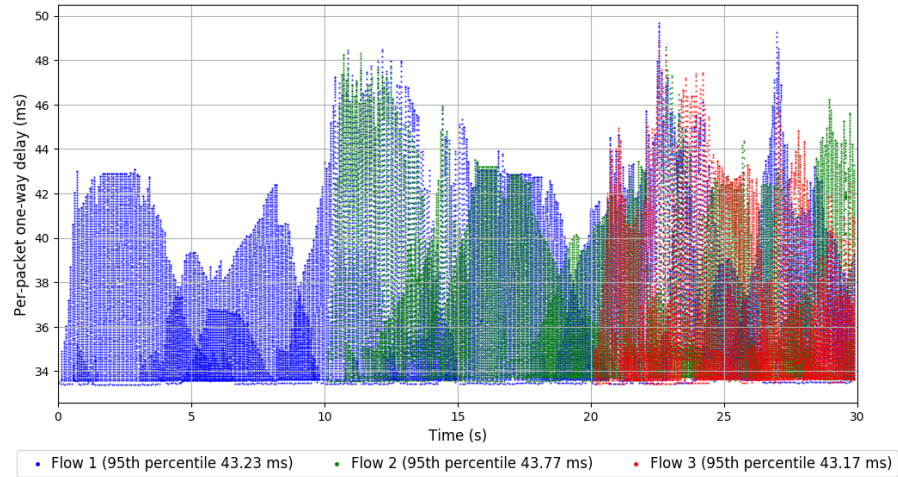
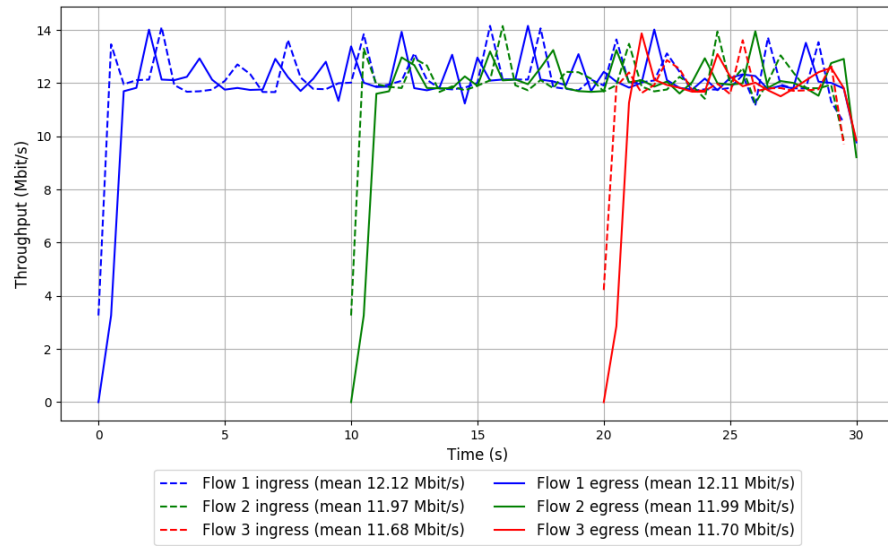


Run 2: Statistics of Sprout

Start at: 2018-10-10 04:37:16  
End at: 2018-10-10 04:37:46  
Local clock offset: 3.322 ms  
Remote clock offset: -4.009 ms

# Below is generated by plot.py at 2018-10-10 06:23:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.94 Mbit/s  
95th percentile per-packet one-way delay: 43.407 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 12.11 Mbit/s  
95th percentile per-packet one-way delay: 43.225 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 11.99 Mbit/s  
95th percentile per-packet one-way delay: 43.769 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 11.70 Mbit/s  
95th percentile per-packet one-way delay: 43.168 ms  
Loss rate: 0.32%

## Run 2: Report of Sprout — Data Link

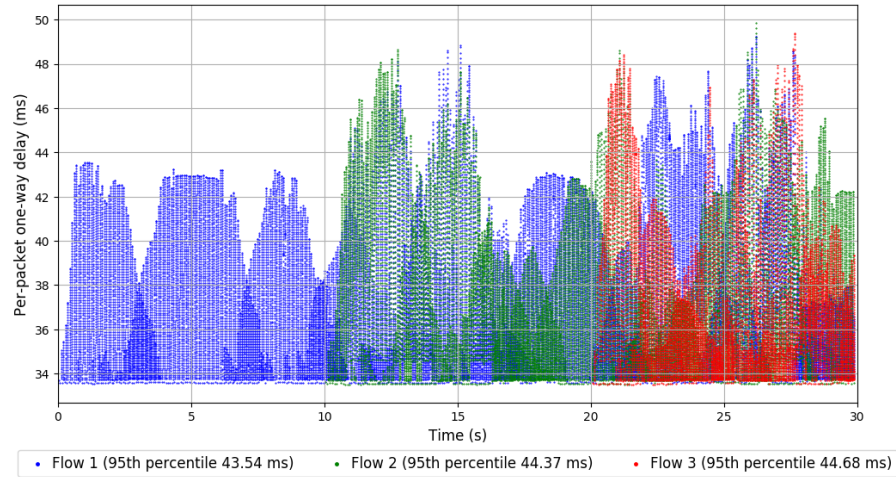
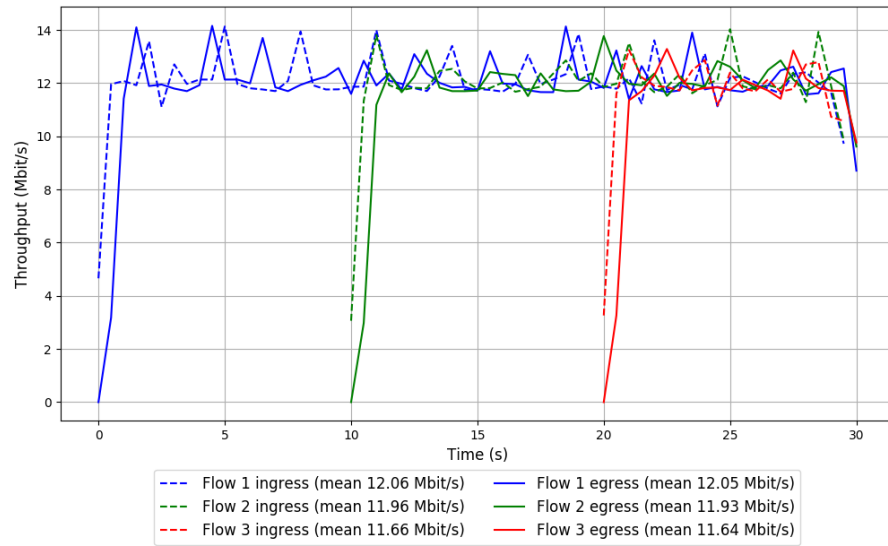


Run 3: Statistics of Sprout

Start at: 2018-10-10 05:02:11  
End at: 2018-10-10 05:02:41  
Local clock offset: 2.031 ms  
Remote clock offset: -3.578 ms

# Below is generated by plot.py at 2018-10-10 06:23:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.81 Mbit/s  
95th percentile per-packet one-way delay: 44.037 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 12.05 Mbit/s  
95th percentile per-packet one-way delay: 43.536 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 11.93 Mbit/s  
95th percentile per-packet one-way delay: 44.368 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 11.64 Mbit/s  
95th percentile per-packet one-way delay: 44.679 ms  
Loss rate: 0.78%

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

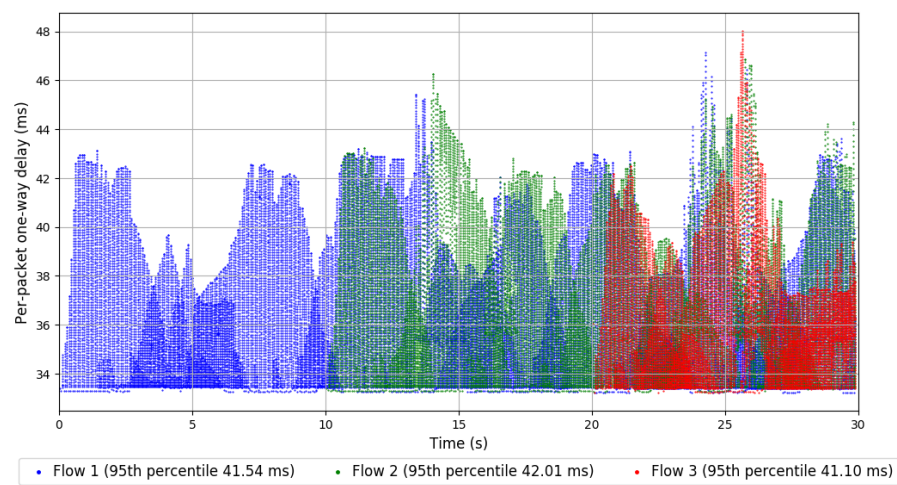
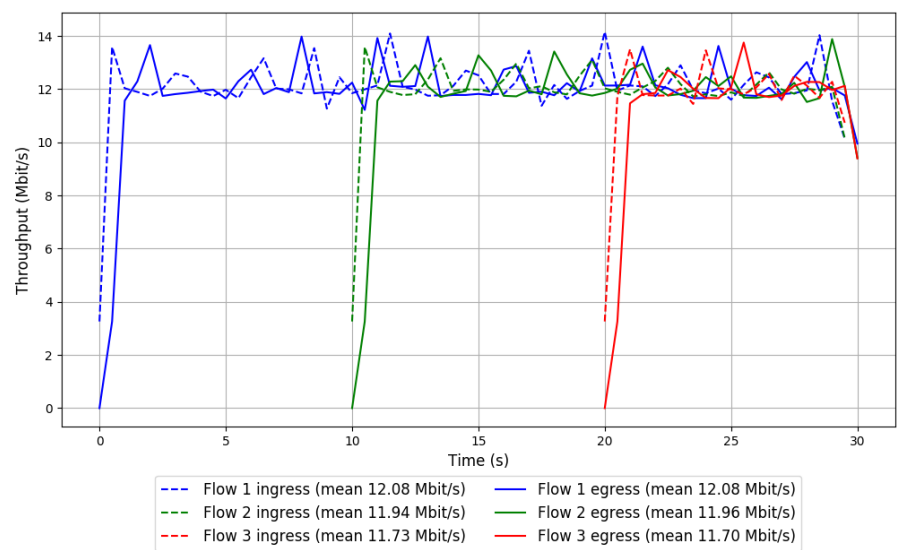


#### Run 4: Statistics of Sprout

Start at: 2018-10-10 05:26:59  
End at: 2018-10-10 05:27:29  
Local clock offset: 2.137 ms  
Remote clock offset: -2.831 ms

```
# Below is generated by plot.py at 2018-10-10 06:23:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.87 Mbit/s
95th percentile per-packet one-way delay: 41.664 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 41.536 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 11.96 Mbit/s
95th percentile per-packet one-way delay: 42.007 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 41.105 ms
Loss rate: 0.84%
```

Run 4: Report of Sprout — Data Link



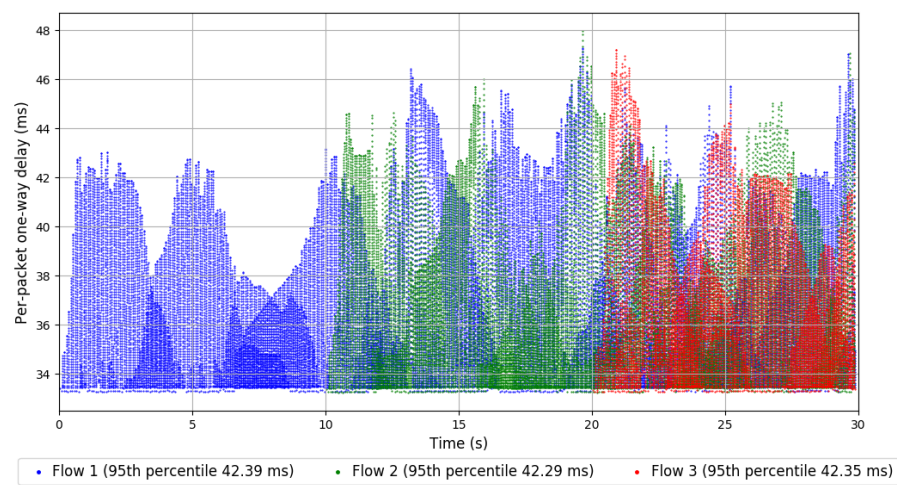
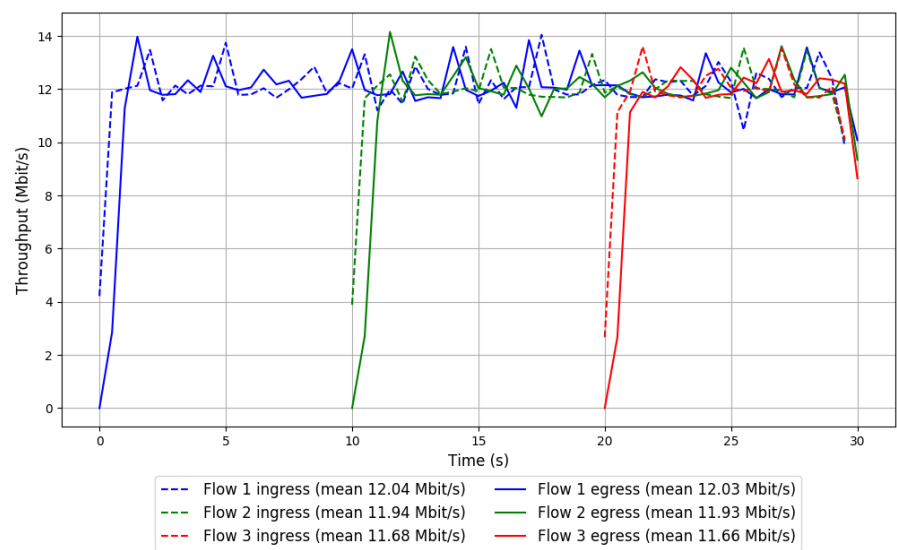


Run 5: Statistics of Sprout

Start at: 2018-10-10 05:52:06  
End at: 2018-10-10 05:52:36  
Local clock offset: 3.953 ms  
Remote clock offset: -2.446 ms

# Below is generated by plot.py at 2018-10-10 06:23:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.79 Mbit/s  
95th percentile per-packet one-way delay: 42.344 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 12.03 Mbit/s  
95th percentile per-packet one-way delay: 42.386 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 11.93 Mbit/s  
95th percentile per-packet one-way delay: 42.288 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 11.66 Mbit/s  
95th percentile per-packet one-way delay: 42.353 ms  
Loss rate: 0.84%

Run 5: Report of Sprout — Data Link

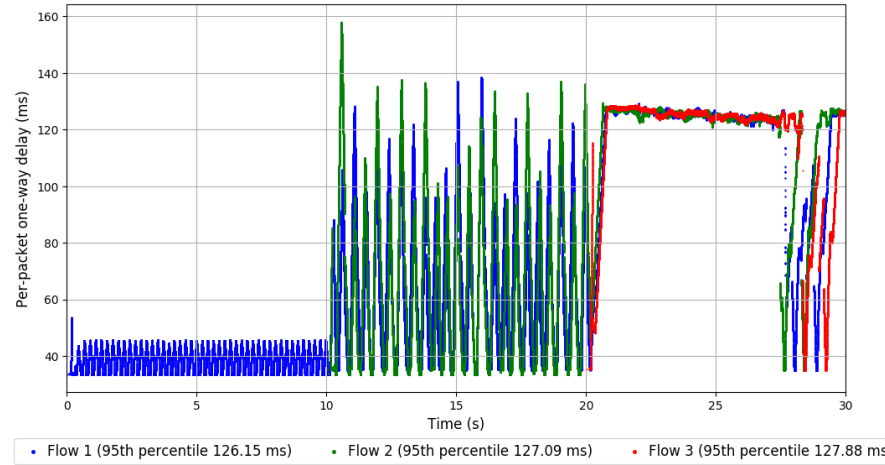
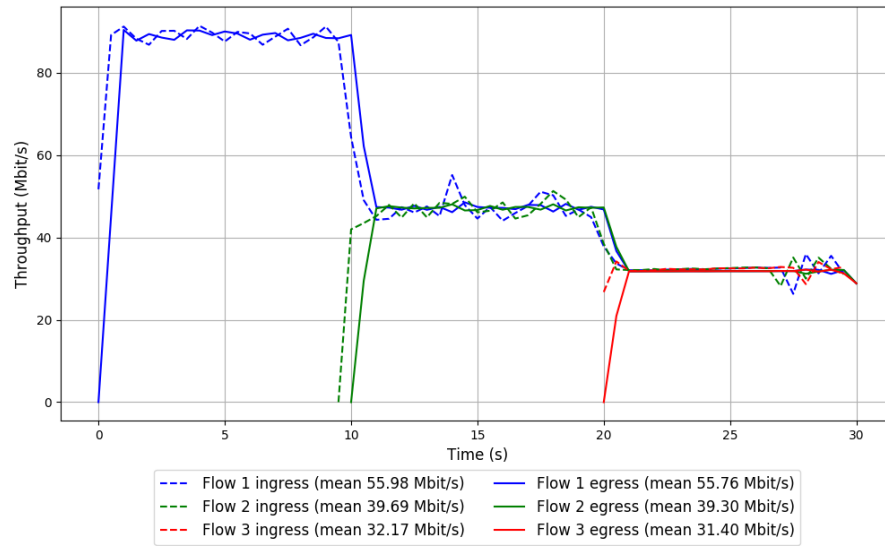


Run 1: Statistics of TaoVA-100x

Start at: 2018-10-10 04:23:18  
End at: 2018-10-10 04:23:48  
Local clock offset: 6.509 ms  
Remote clock offset: -4.508 ms

# Below is generated by plot.py at 2018-10-10 06:24:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.34 Mbit/s  
95th percentile per-packet one-way delay: 126.970 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 55.76 Mbit/s  
95th percentile per-packet one-way delay: 126.146 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 39.30 Mbit/s  
95th percentile per-packet one-way delay: 127.094 ms  
Loss rate: 1.30%  
-- Flow 3:  
Average throughput: 31.40 Mbit/s  
95th percentile per-packet one-way delay: 127.878 ms  
Loss rate: 3.01%

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

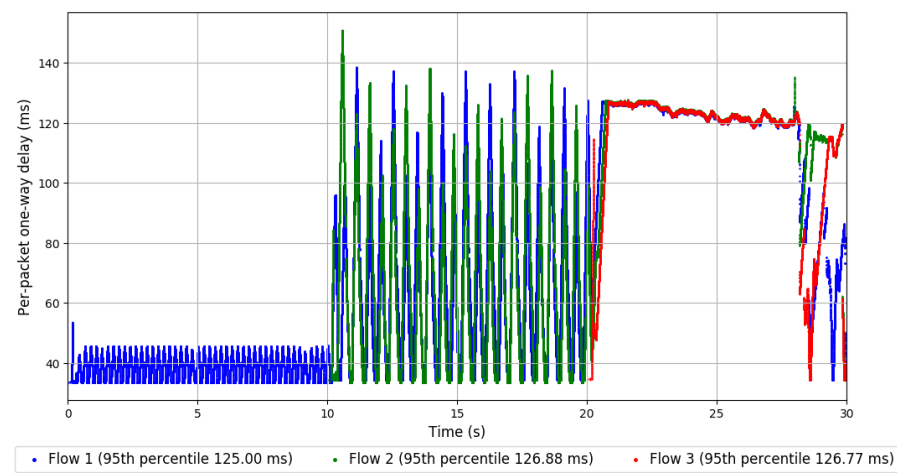
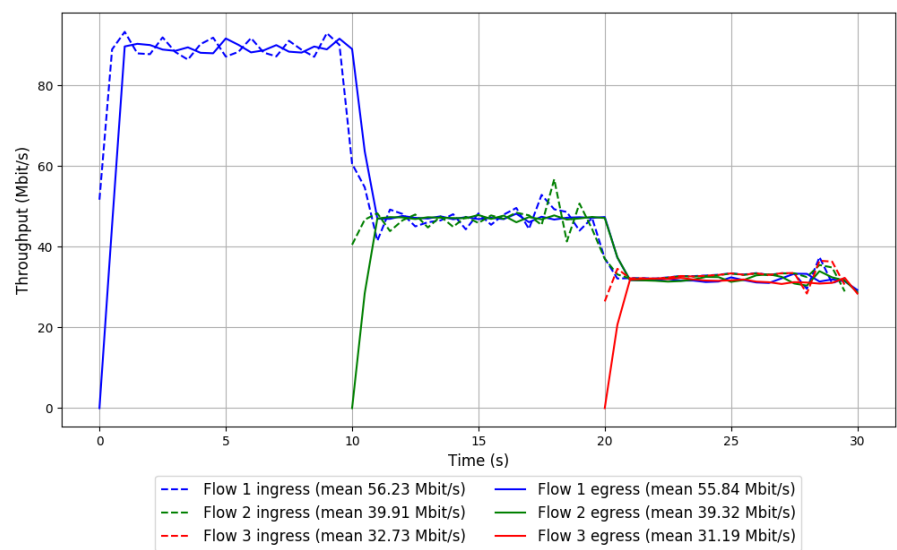


Run 2: Statistics of TaoVA-100x

Start at: 2018-10-10 04:48:16  
End at: 2018-10-10 04:48:46  
Local clock offset: 2.391 ms  
Remote clock offset: -3.797 ms

# Below is generated by plot.py at 2018-10-10 06:24:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.34 Mbit/s  
95th percentile per-packet one-way delay: 126.469 ms  
Loss rate: 1.68%  
-- Flow 1:  
Average throughput: 55.84 Mbit/s  
95th percentile per-packet one-way delay: 124.995 ms  
Loss rate: 0.91%  
-- Flow 2:  
Average throughput: 39.32 Mbit/s  
95th percentile per-packet one-way delay: 126.877 ms  
Loss rate: 1.80%  
-- Flow 3:  
Average throughput: 31.19 Mbit/s  
95th percentile per-packet one-way delay: 126.769 ms  
Loss rate: 5.31%

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

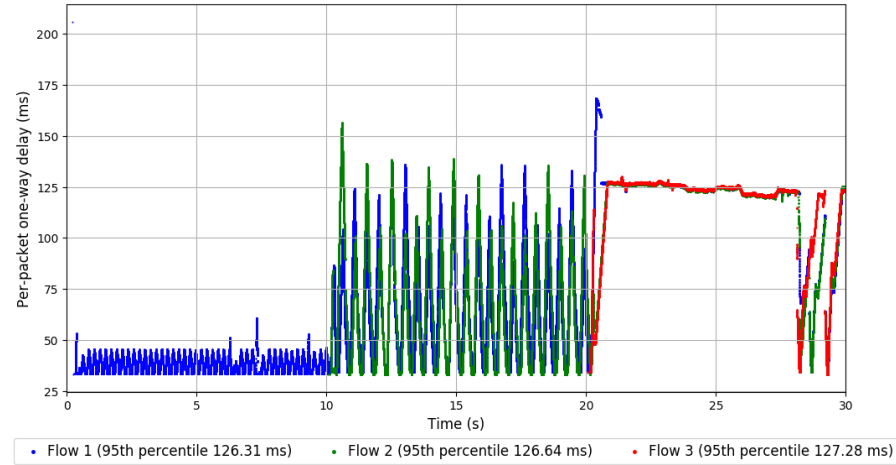
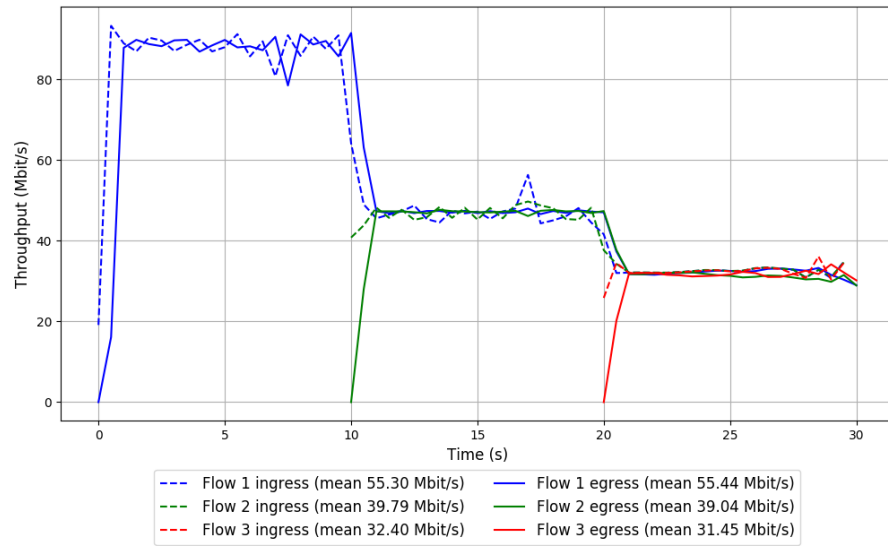


Run 3: Statistics of TaoVA-100x

Start at: 2018-10-10 05:13:08  
End at: 2018-10-10 05:13:38  
Local clock offset: 1.884 ms  
Remote clock offset: -2.994 ms

# Below is generated by plot.py at 2018-10-10 06:24:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.05 Mbit/s  
95th percentile per-packet one-way delay: 126.735 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 55.44 Mbit/s  
95th percentile per-packet one-way delay: 126.310 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 39.04 Mbit/s  
95th percentile per-packet one-way delay: 126.638 ms  
Loss rate: 2.19%  
-- Flow 3:  
Average throughput: 31.45 Mbit/s  
95th percentile per-packet one-way delay: 127.282 ms  
Loss rate: 3.54%

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



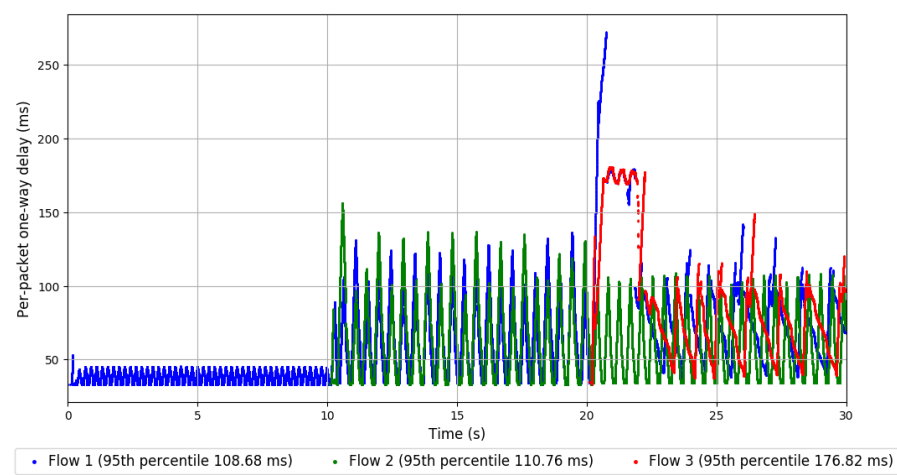
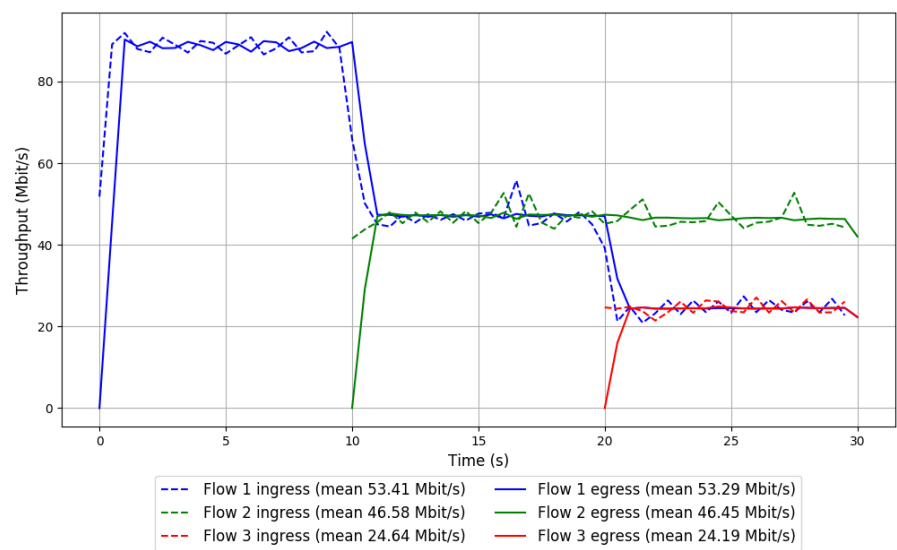


Run 4: Statistics of TaoVA-100x

Start at: 2018-10-10 05:37:54  
End at: 2018-10-10 05:38:24  
Local clock offset: 3.36 ms  
Remote clock offset: -2.578 ms

# Below is generated by plot.py at 2018-10-10 06:25:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.23 Mbit/s  
95th percentile per-packet one-way delay: 116.605 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 53.29 Mbit/s  
95th percentile per-packet one-way delay: 108.684 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 46.45 Mbit/s  
95th percentile per-packet one-way delay: 110.762 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 24.19 Mbit/s  
95th percentile per-packet one-way delay: 176.818 ms  
Loss rate: 2.45%

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

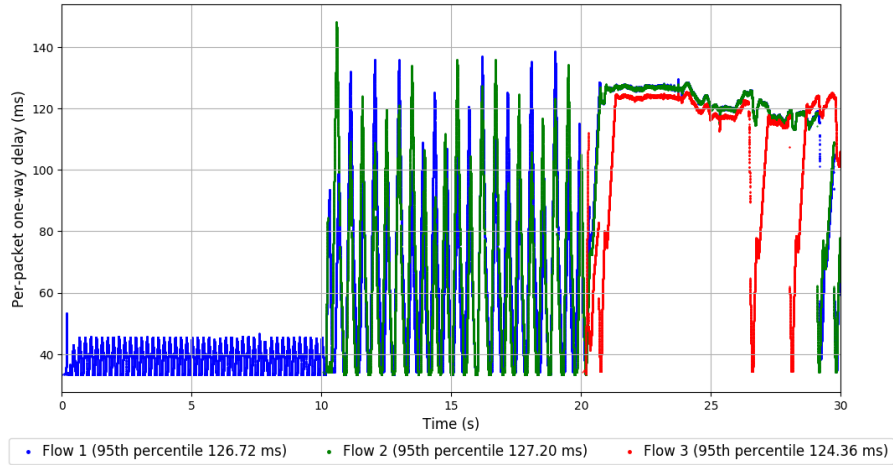
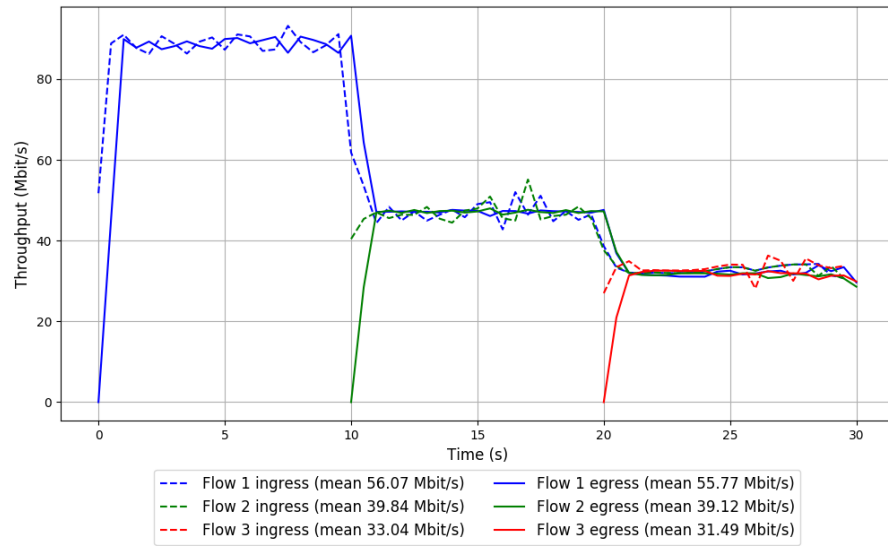


Run 5: Statistics of TaoVA-100x

Start at: 2018-10-10 06:03:00  
End at: 2018-10-10 06:03:30  
Local clock offset: 3.502 ms  
Remote clock offset: -2.415 ms

# Below is generated by plot.py at 2018-10-10 06:25:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.24 Mbit/s  
95th percentile per-packet one-way delay: 126.911 ms  
Loss rate: 1.66%  
-- Flow 1:  
Average throughput: 55.77 Mbit/s  
95th percentile per-packet one-way delay: 126.716 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 39.12 Mbit/s  
95th percentile per-packet one-way delay: 127.199 ms  
Loss rate: 2.11%  
-- Flow 3:  
Average throughput: 31.49 Mbit/s  
95th percentile per-packet one-way delay: 124.365 ms  
Loss rate: 5.28%

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

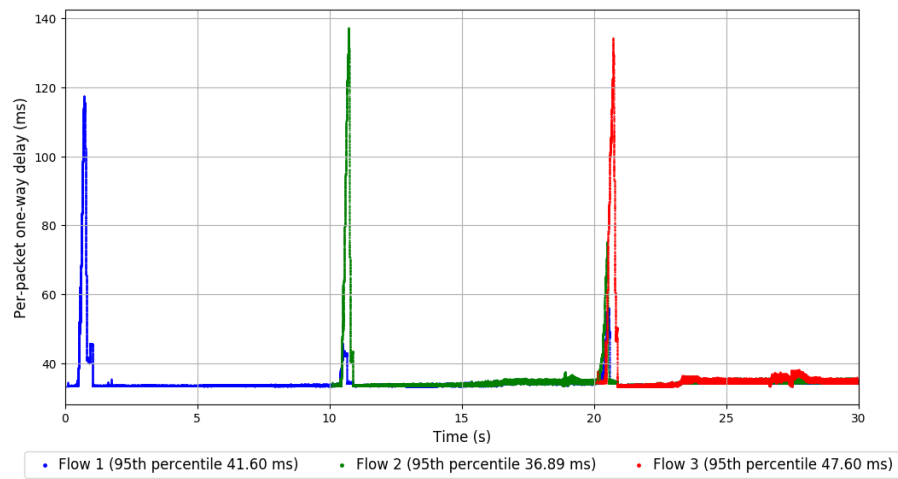
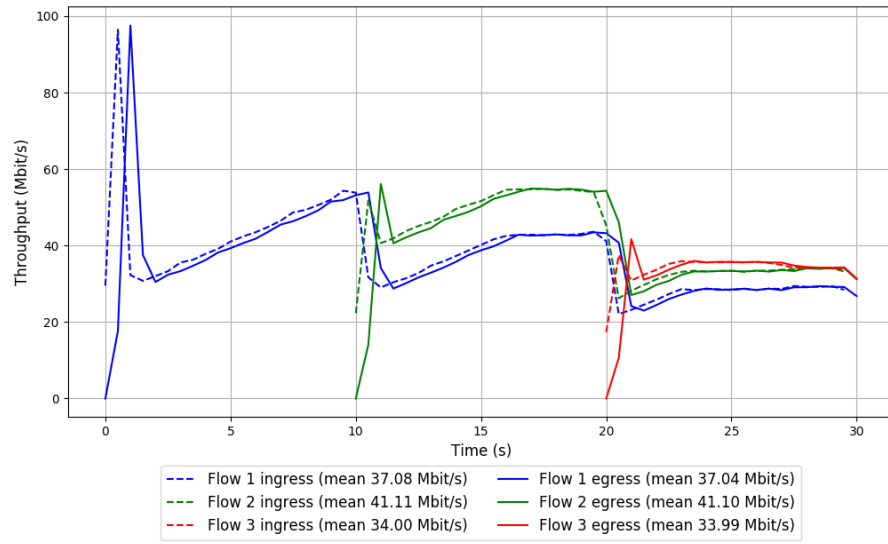


Run 1: Statistics of TCP Vegas

Start at: 2018-10-10 04:16:03  
End at: 2018-10-10 04:16:33  
Local clock offset: 6.002 ms  
Remote clock offset: -4.496 ms

# Below is generated by plot.py at 2018-10-10 06:25:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.64 Mbit/s  
95th percentile per-packet one-way delay: 40.760 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 37.04 Mbit/s  
95th percentile per-packet one-way delay: 41.598 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 41.10 Mbit/s  
95th percentile per-packet one-way delay: 36.894 ms  
Loss rate: 0.34%  
-- Flow 3:  
Average throughput: 33.99 Mbit/s  
95th percentile per-packet one-way delay: 47.604 ms  
Loss rate: 0.69%

# Run 1: Report of TCP Vegas — Data Link

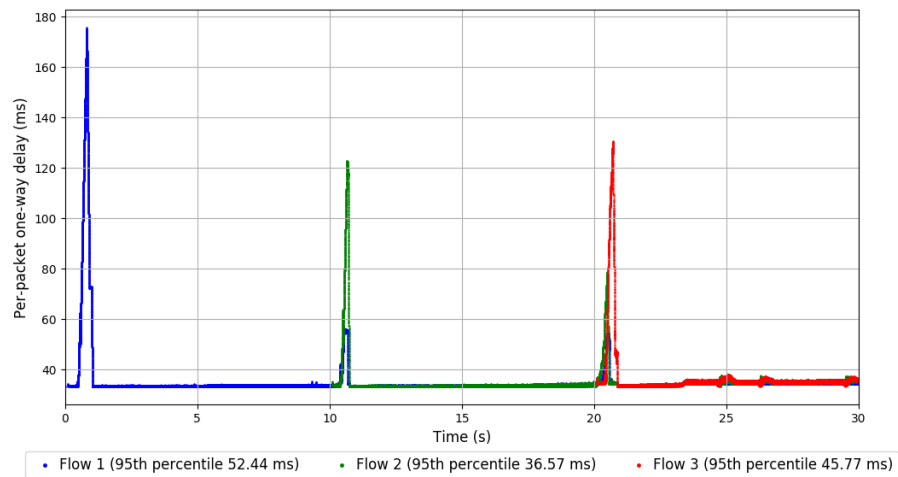
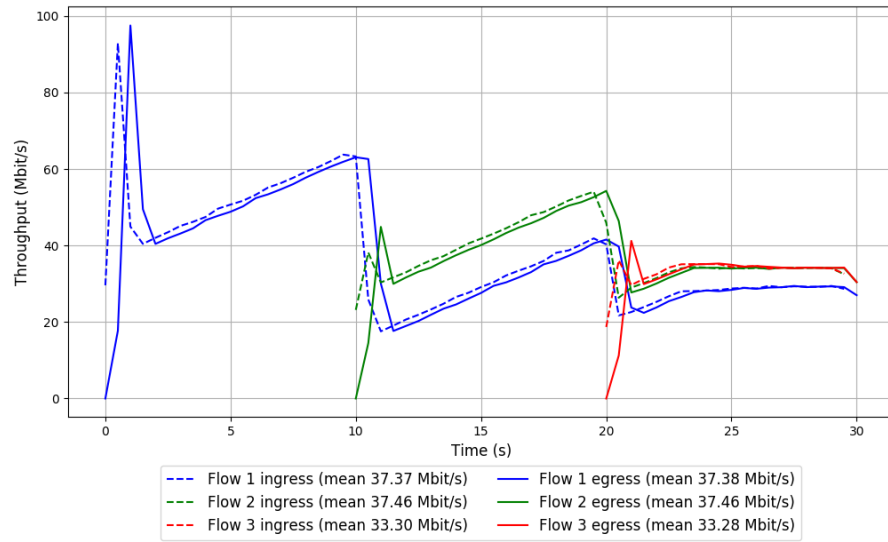


Run 2: Statistics of TCP Vegas

Start at: 2018-10-10 04:41:16  
End at: 2018-10-10 04:41:46  
Local clock offset: 2.857 ms  
Remote clock offset: -3.863 ms

# Below is generated by plot.py at 2018-10-10 06:25:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.33 Mbit/s  
95th percentile per-packet one-way delay: 41.920 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 37.38 Mbit/s  
95th percentile per-packet one-way delay: 52.435 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 37.46 Mbit/s  
95th percentile per-packet one-way delay: 36.571 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 33.28 Mbit/s  
95th percentile per-packet one-way delay: 45.774 ms  
Loss rate: 0.70%

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



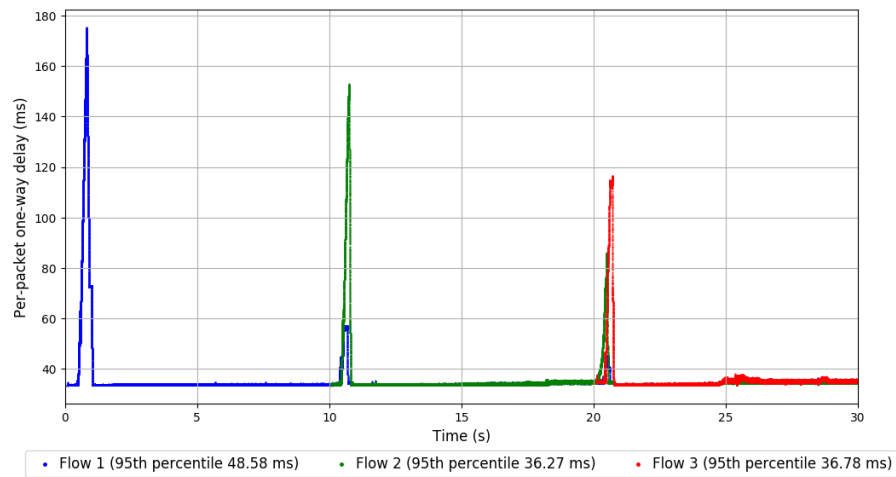
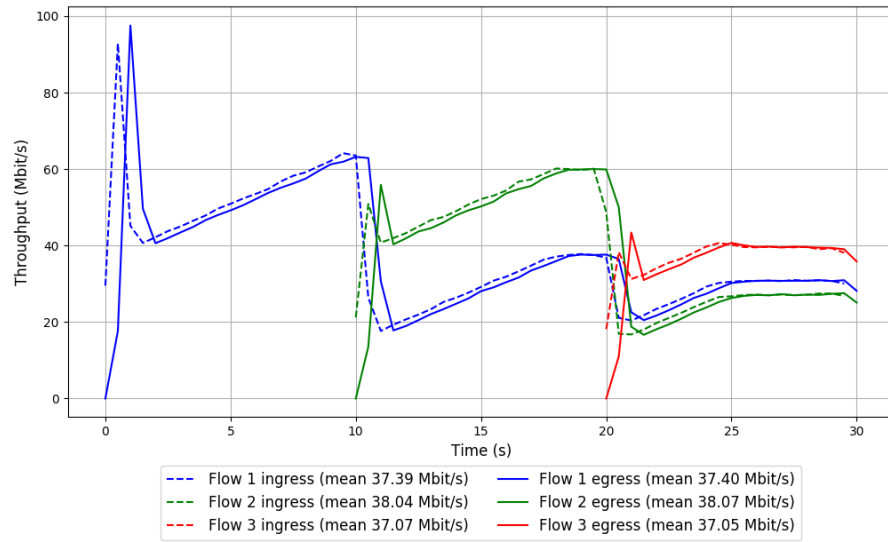


Run 3: Statistics of TCP Vegas

Start at: 2018-10-10 05:06:11  
End at: 2018-10-10 05:06:41  
Local clock offset: 1.969 ms  
Remote clock offset: -3.262 ms

# Below is generated by plot.py at 2018-10-10 06:25:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.98 Mbit/s  
95th percentile per-packet one-way delay: 40.413 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 37.40 Mbit/s  
95th percentile per-packet one-way delay: 48.579 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 38.07 Mbit/s  
95th percentile per-packet one-way delay: 36.266 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 37.05 Mbit/s  
95th percentile per-packet one-way delay: 36.778 ms  
Loss rate: 0.71%

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

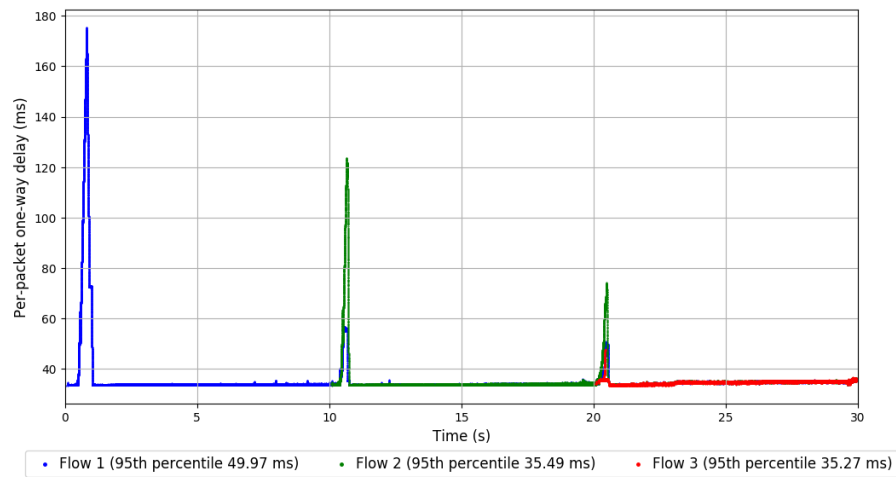
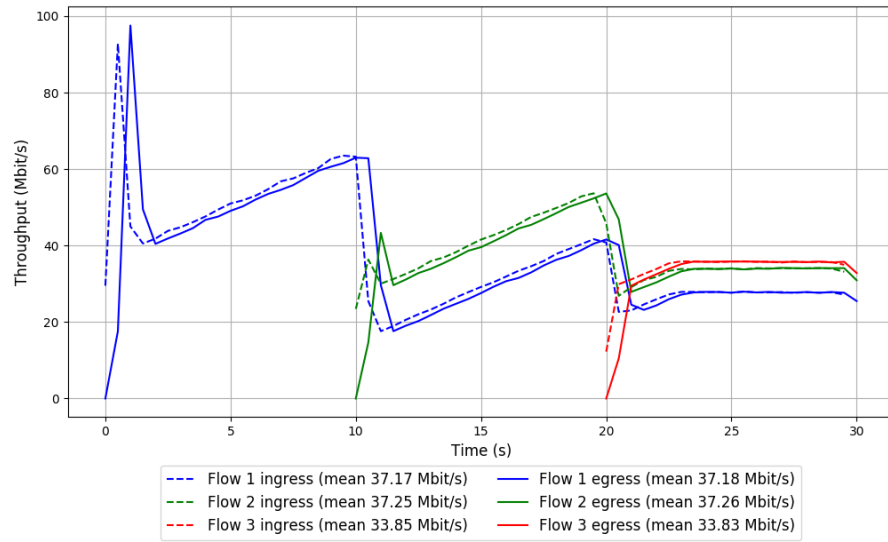


Run 4: Statistics of TCP Vegas

Start at: 2018-10-10 05:30:58  
End at: 2018-10-10 05:31:28  
Local clock offset: 2.753 ms  
Remote clock offset: -2.864 ms

# Below is generated by plot.py at 2018-10-10 06:25:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.18 Mbit/s  
95th percentile per-packet one-way delay: 36.118 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 37.18 Mbit/s  
95th percentile per-packet one-way delay: 49.969 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 37.26 Mbit/s  
95th percentile per-packet one-way delay: 35.494 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 33.83 Mbit/s  
95th percentile per-packet one-way delay: 35.273 ms  
Loss rate: 0.69%

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

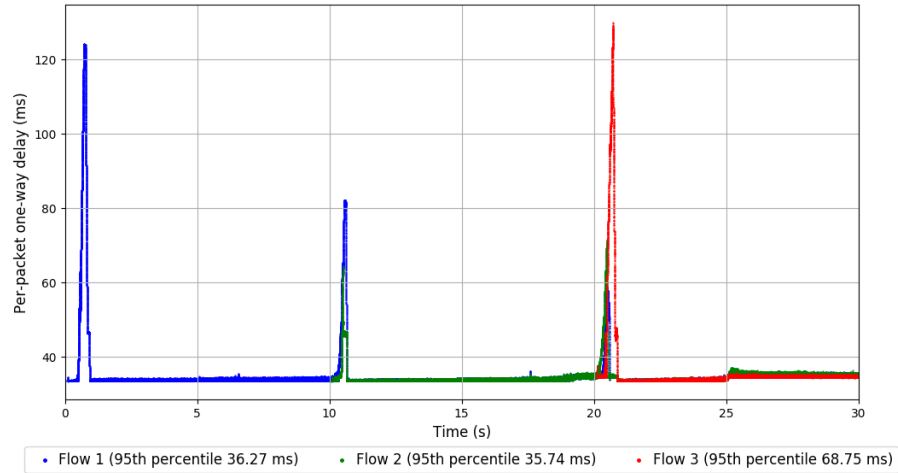
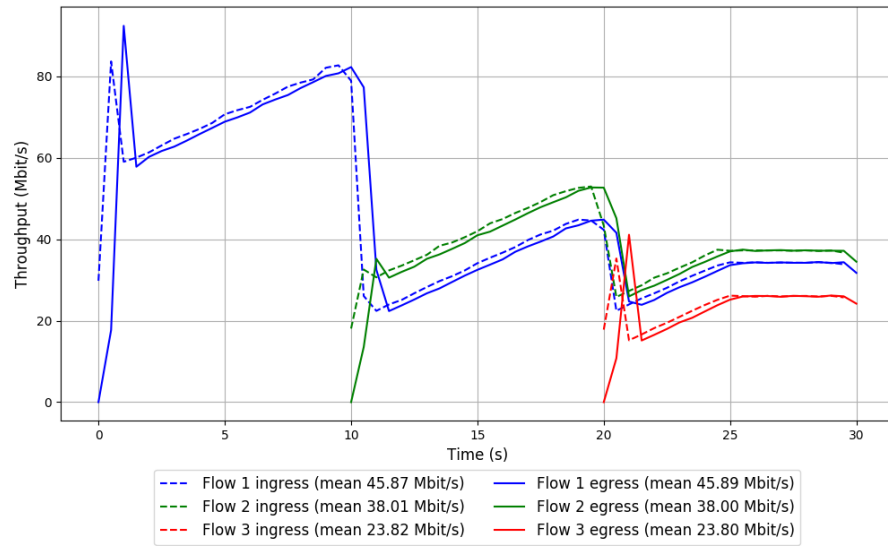


Run 5: Statistics of TCP Vegas

Start at: 2018-10-10 05:56:05  
End at: 2018-10-10 05:56:35  
Local clock offset: 3.943 ms  
Remote clock offset: -2.404 ms

# Below is generated by plot.py at 2018-10-10 06:25:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.05 Mbit/s  
95th percentile per-packet one-way delay: 36.084 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 45.89 Mbit/s  
95th percentile per-packet one-way delay: 36.270 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 38.00 Mbit/s  
95th percentile per-packet one-way delay: 35.740 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 23.80 Mbit/s  
95th percentile per-packet one-way delay: 68.748 ms  
Loss rate: 0.76%

# Run 5: Report of TCP Vegas — Data Link

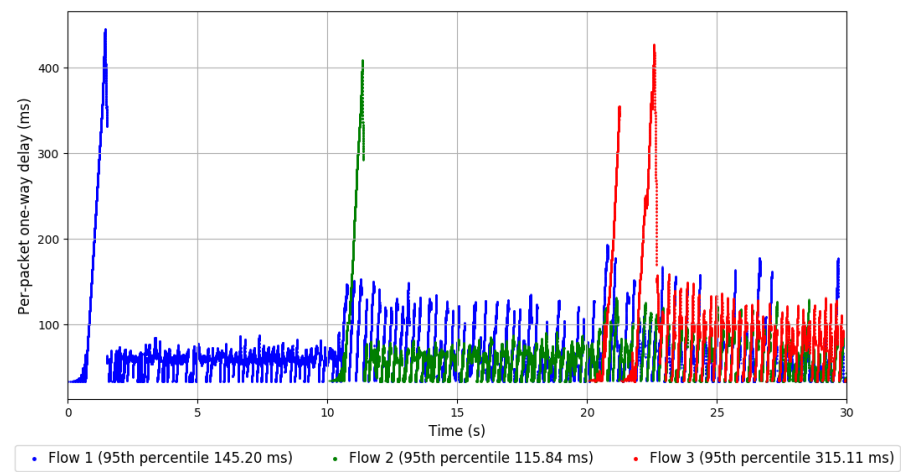
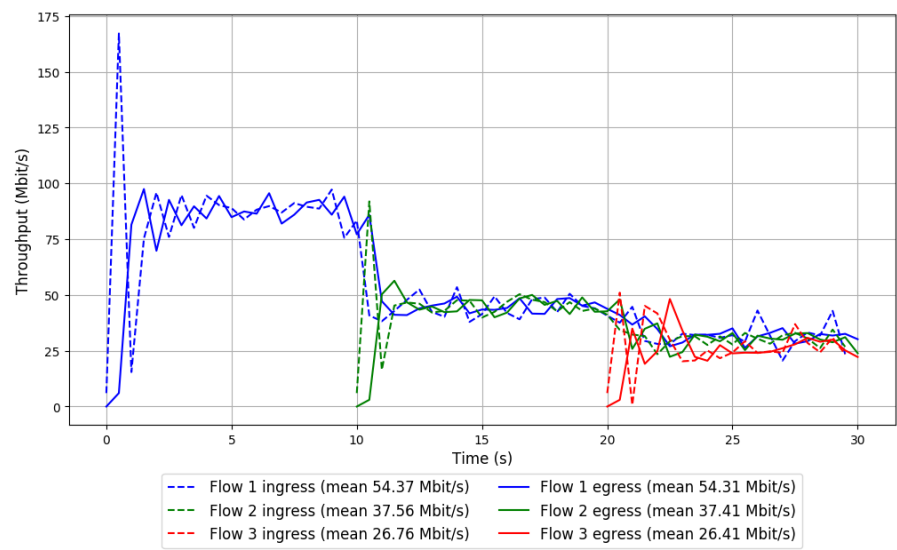


Run 1: Statistics of Verus

Start at: 2018-10-10 04:10:37  
End at: 2018-10-10 04:11:07  
Local clock offset: 5.513 ms  
Remote clock offset: -4.432 ms

# Below is generated by plot.py at 2018-10-10 06:25:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.92 Mbit/s  
95th percentile per-packet one-way delay: 161.334 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 54.31 Mbit/s  
95th percentile per-packet one-way delay: 145.203 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 37.41 Mbit/s  
95th percentile per-packet one-way delay: 115.838 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 26.41 Mbit/s  
95th percentile per-packet one-way delay: 315.111 ms  
Loss rate: 1.96%

Run 1: Report of Verus — Data Link



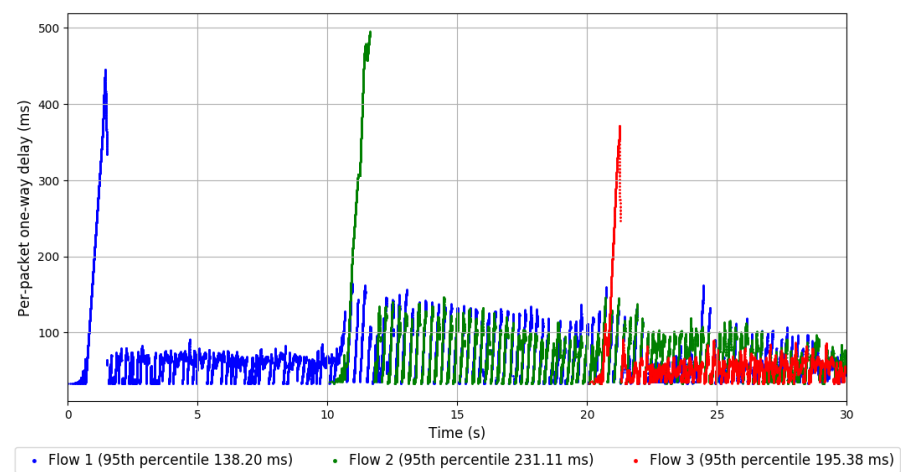
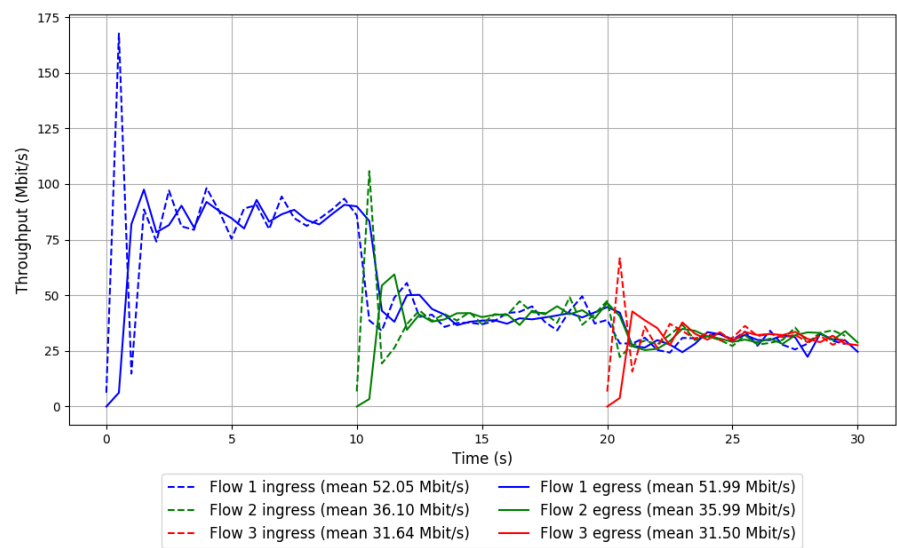


Run 2: Statistics of Verus

Start at: 2018-10-10 04:35:51  
End at: 2018-10-10 04:36:21  
Local clock offset: 3.516 ms  
Remote clock offset: -3.962 ms

# Below is generated by plot.py at 2018-10-10 06:25:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.33 Mbit/s  
95th percentile per-packet one-way delay: 149.123 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 51.99 Mbit/s  
95th percentile per-packet one-way delay: 138.200 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 35.99 Mbit/s  
95th percentile per-packet one-way delay: 231.107 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 31.50 Mbit/s  
95th percentile per-packet one-way delay: 195.381 ms  
Loss rate: 1.06%

Run 2: Report of Verus — Data Link

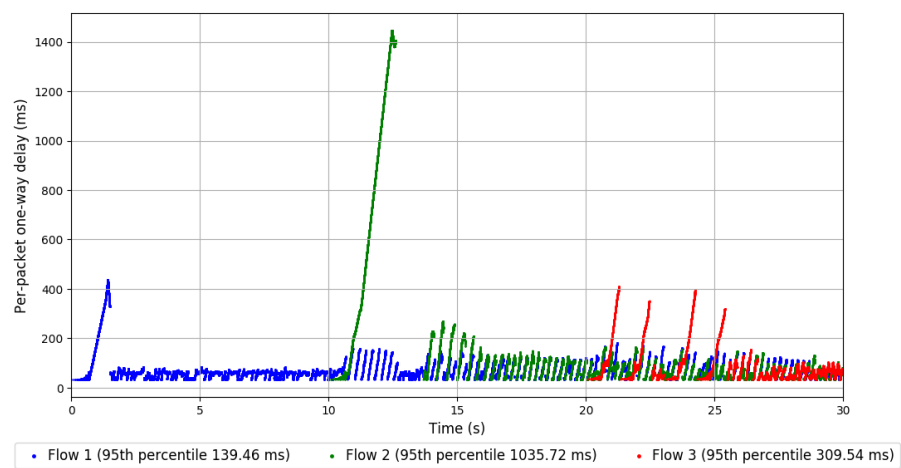
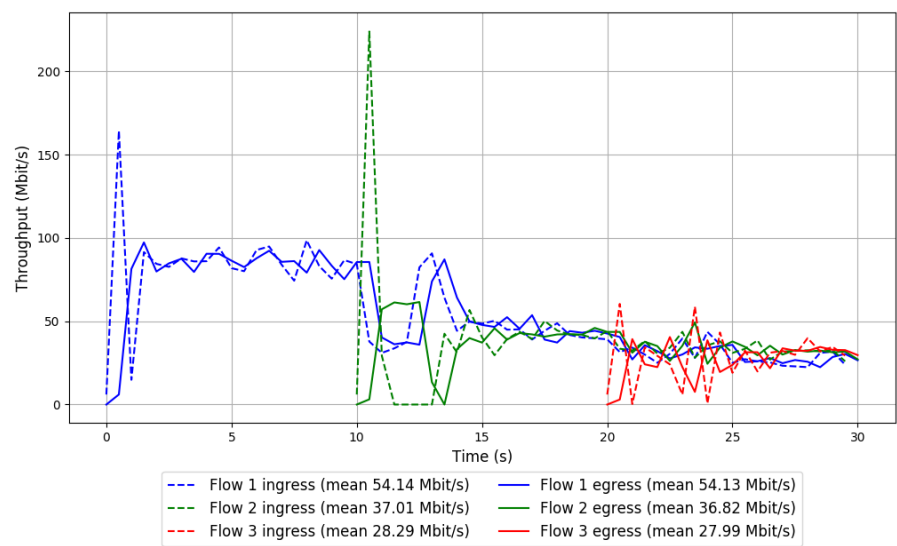


Run 3: Statistics of Verus

Start at: 2018-10-10 05:00:47  
End at: 2018-10-10 05:01:17  
Local clock offset: 2.055 ms  
Remote clock offset: -3.349 ms

# Below is generated by plot.py at 2018-10-10 06:25:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.89 Mbit/s  
95th percentile per-packet one-way delay: 300.260 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 54.13 Mbit/s  
95th percentile per-packet one-way delay: 139.460 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 36.82 Mbit/s  
95th percentile per-packet one-way delay: 1035.718 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 27.99 Mbit/s  
95th percentile per-packet one-way delay: 309.540 ms  
Loss rate: 1.66%

Run 3: Report of Verus — Data Link

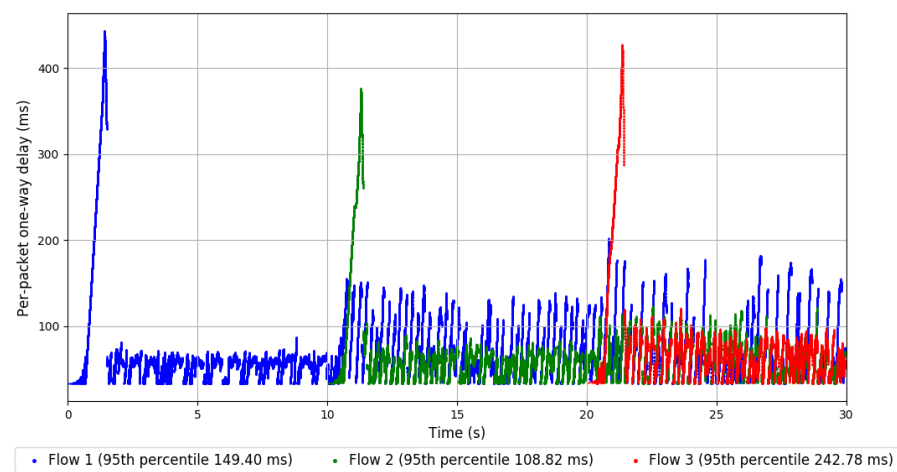
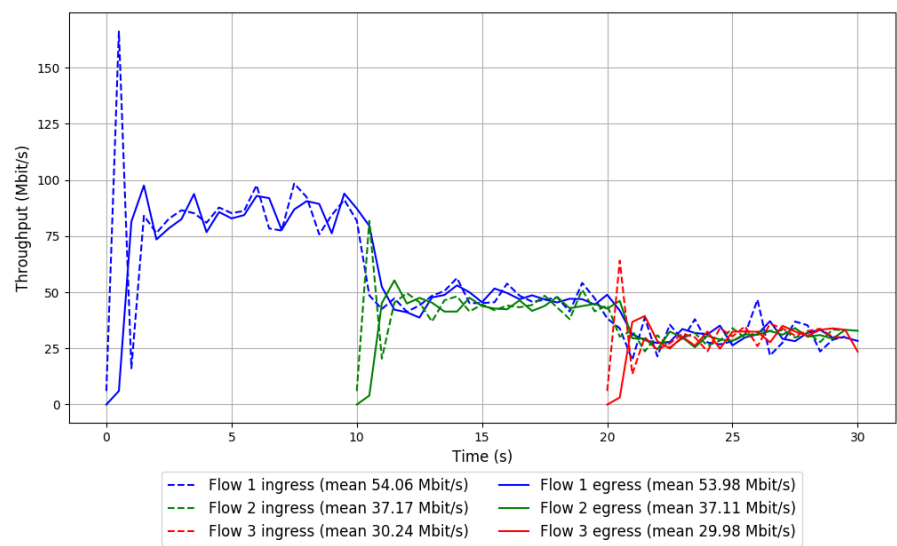


Run 4: Statistics of Verus

Start at: 2018-10-10 05:25:35  
End at: 2018-10-10 05:26:05  
Local clock offset: 1.865 ms  
Remote clock offset: -2.877 ms

# Below is generated by plot.py at 2018-10-10 06:25:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.60 Mbit/s  
95th percentile per-packet one-way delay: 150.127 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 53.98 Mbit/s  
95th percentile per-packet one-way delay: 149.398 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 37.11 Mbit/s  
95th percentile per-packet one-way delay: 108.821 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 29.98 Mbit/s  
95th percentile per-packet one-way delay: 242.781 ms  
Loss rate: 1.49%

Run 4: Report of Verus — Data Link

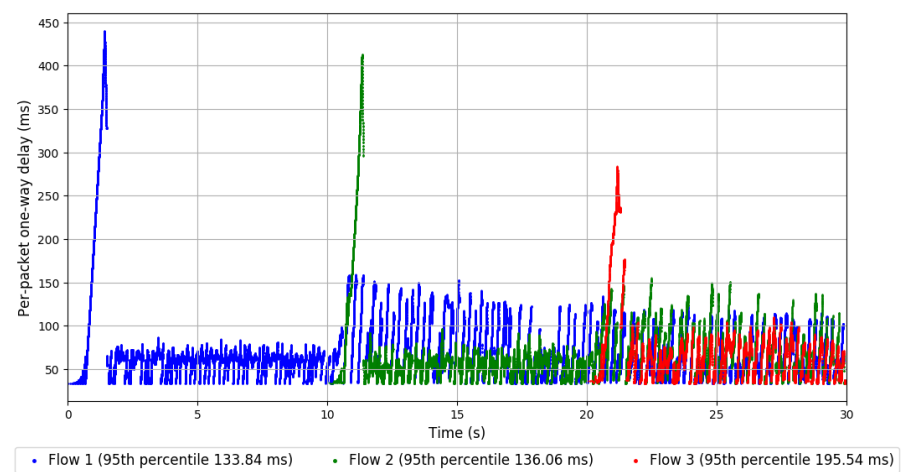
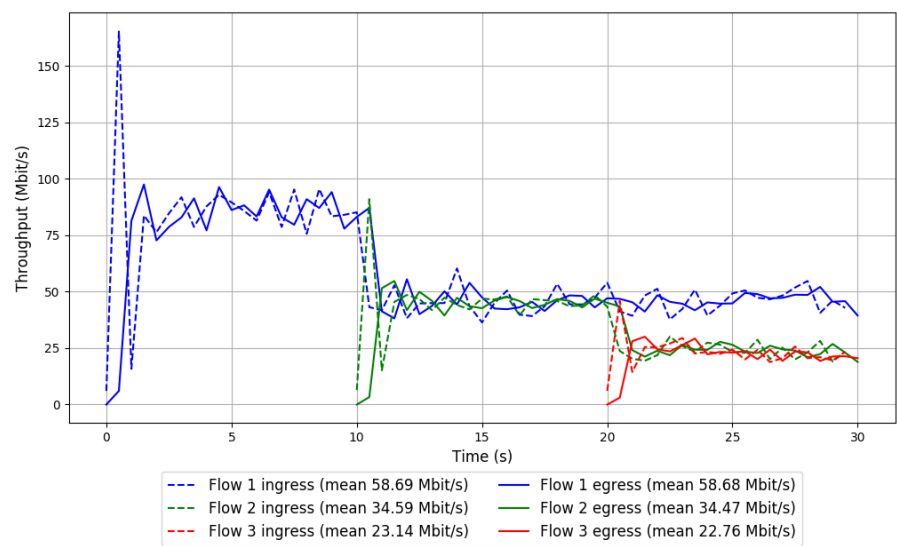


Run 5: Statistics of Verus

Start at: 2018-10-10 05:50:41  
End at: 2018-10-10 05:51:11  
Local clock offset: 3.923 ms  
Remote clock offset: -2.727 ms

# Below is generated by plot.py at 2018-10-10 06:25:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.05 Mbit/s  
95th percentile per-packet one-way delay: 136.610 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 58.68 Mbit/s  
95th percentile per-packet one-way delay: 133.838 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 34.47 Mbit/s  
95th percentile per-packet one-way delay: 136.060 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 22.76 Mbit/s  
95th percentile per-packet one-way delay: 195.544 ms  
Loss rate: 2.25%

Run 5: Report of Verus — Data Link



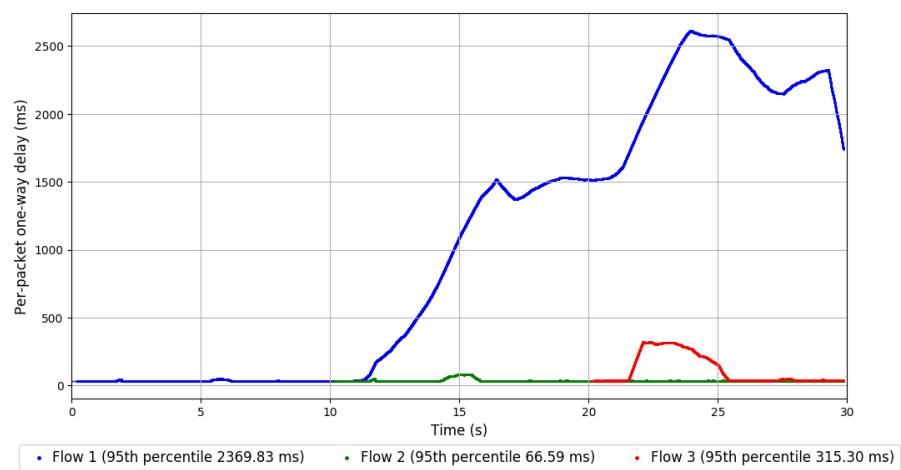
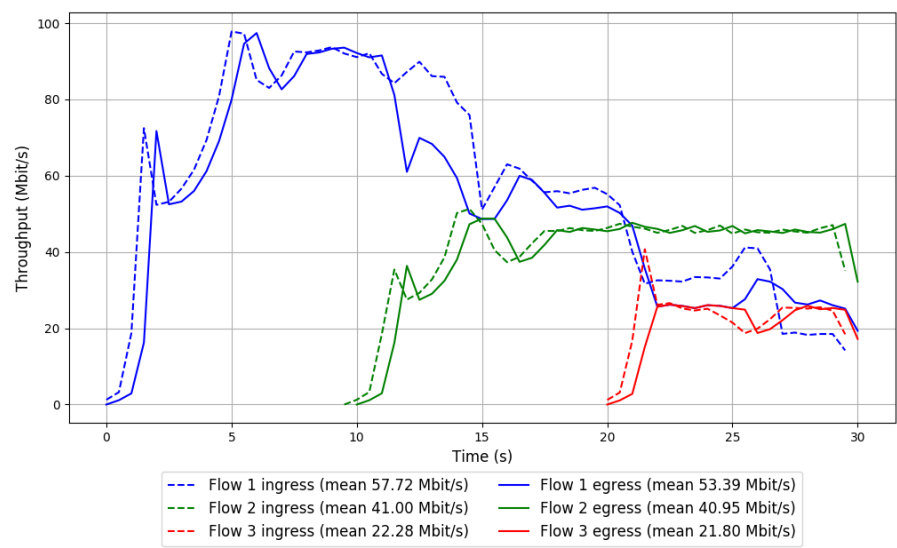


Run 1: Statistics of PCC-Vivace

Start at: 2018-10-10 04:20:26  
End at: 2018-10-10 04:20:56  
Local clock offset: 6.319 ms  
Remote clock offset: -4.386 ms

# Below is generated by plot.py at 2018-10-10 06:26:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.77 Mbit/s  
95th percentile per-packet one-way delay: 2243.390 ms  
Loss rate: 5.17%  
-- Flow 1:  
Average throughput: 53.39 Mbit/s  
95th percentile per-packet one-way delay: 2369.832 ms  
Loss rate: 7.70%  
-- Flow 2:  
Average throughput: 40.95 Mbit/s  
95th percentile per-packet one-way delay: 66.595 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 21.80 Mbit/s  
95th percentile per-packet one-way delay: 315.301 ms  
Loss rate: 2.80%

Run 1: Report of PCC-Vivace — Data Link

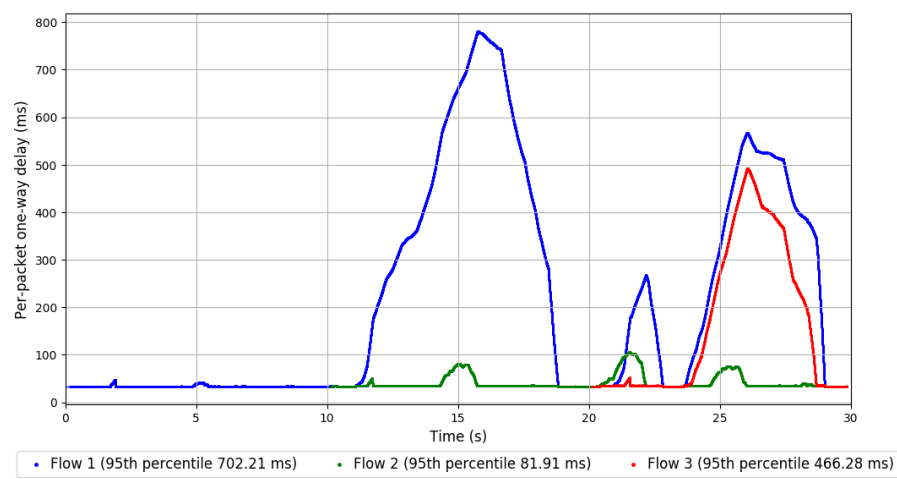
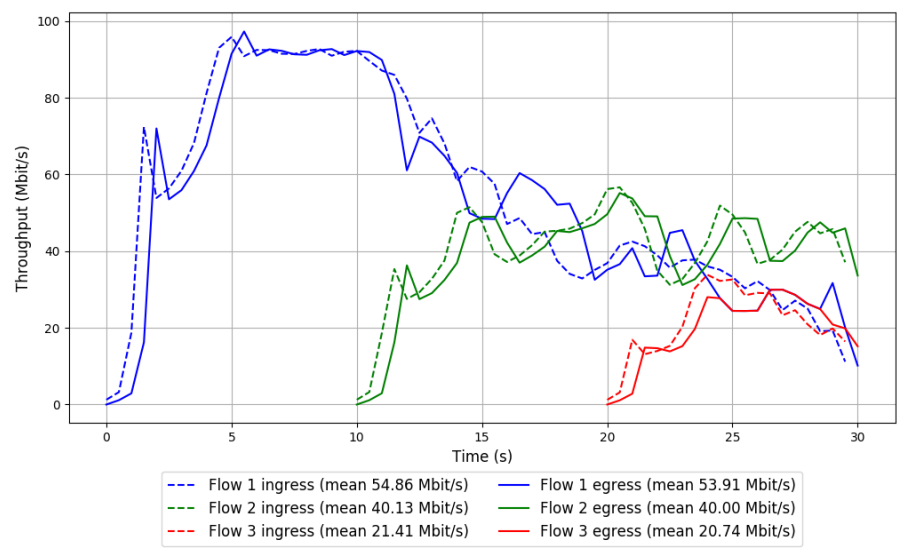


Run 2: Statistics of PCC-Vivace

Start at: 2018-10-10 04:45:28  
End at: 2018-10-10 04:45:58  
Local clock offset: 2.554 ms  
Remote clock offset: -3.801 ms

# Below is generated by plot.py at 2018-10-10 06:26:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.31 Mbit/s  
95th percentile per-packet one-way delay: 611.975 ms  
Loss rate: 1.69%  
-- Flow 1:  
Average throughput: 53.91 Mbit/s  
95th percentile per-packet one-way delay: 702.207 ms  
Loss rate: 1.94%  
-- Flow 2:  
Average throughput: 40.00 Mbit/s  
95th percentile per-packet one-way delay: 81.906 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 20.74 Mbit/s  
95th percentile per-packet one-way delay: 466.277 ms  
Loss rate: 3.76%

Run 2: Report of PCC-Vivace — Data Link

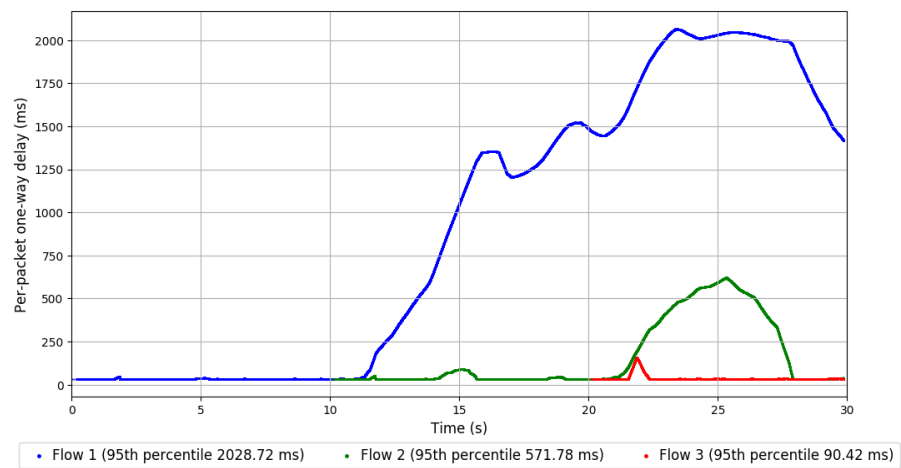
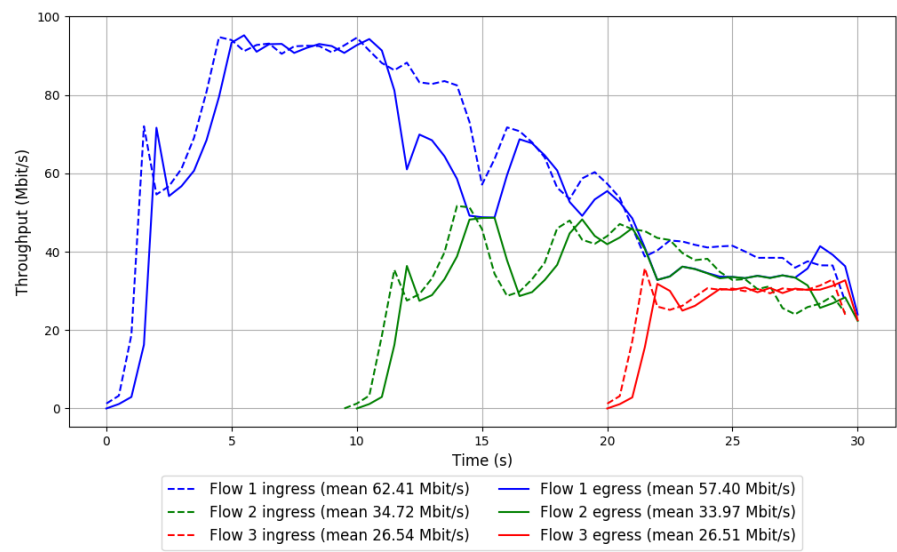


Run 3: Statistics of PCC-Vivace

Start at: 2018-10-10 05:10:22  
End at: 2018-10-10 05:10:52  
Local clock offset: 1.902 ms  
Remote clock offset: -3.221 ms

# Below is generated by plot.py at 2018-10-10 06:26:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.70 Mbit/s  
95th percentile per-packet one-way delay: 2010.793 ms  
Loss rate: 6.11%  
-- Flow 1:  
Average throughput: 57.40 Mbit/s  
95th percentile per-packet one-way delay: 2028.717 ms  
Loss rate: 8.21%  
-- Flow 2:  
Average throughput: 33.97 Mbit/s  
95th percentile per-packet one-way delay: 571.777 ms  
Loss rate: 2.46%  
-- Flow 3:  
Average throughput: 26.51 Mbit/s  
95th percentile per-packet one-way delay: 90.422 ms  
Loss rate: 0.80%

Run 3: Report of PCC-Vivace — Data Link

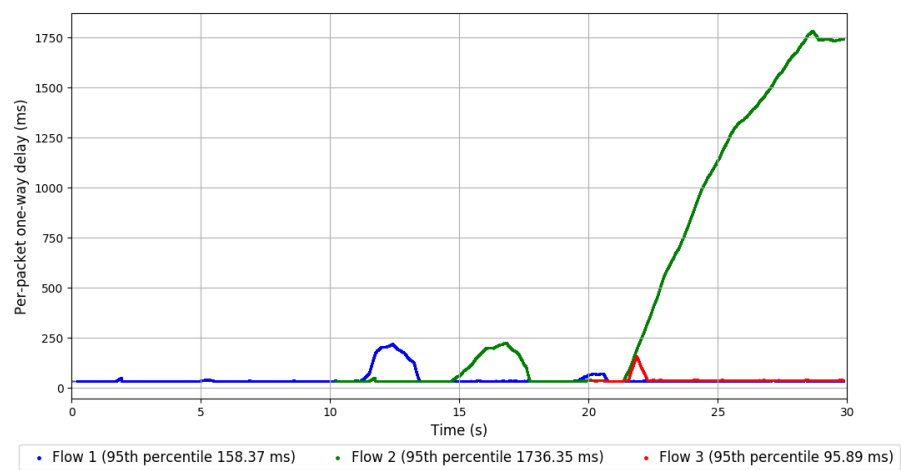
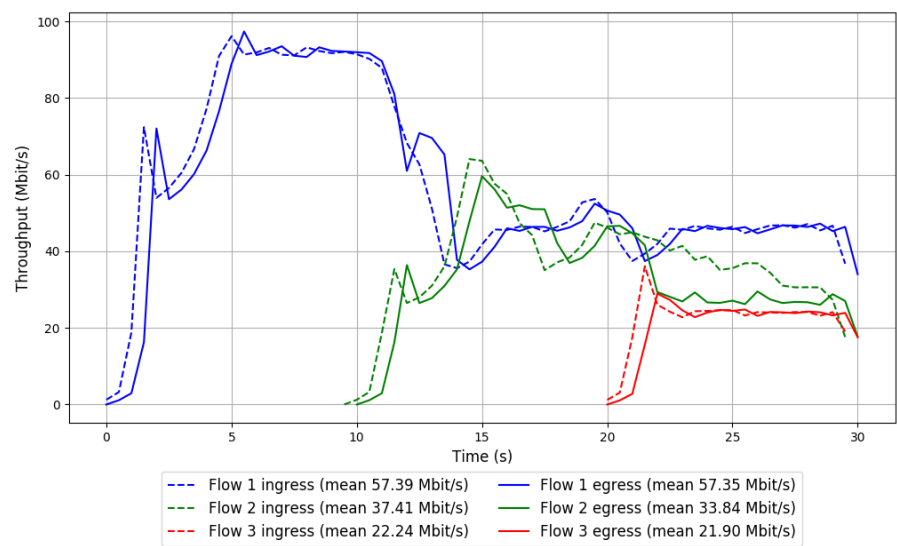


Run 4: Statistics of PCC-Vivace

Start at: 2018-10-10 05:35:08  
End at: 2018-10-10 05:35:38  
Local clock offset: 3.183 ms  
Remote clock offset: -2.845 ms

# Below is generated by plot.py at 2018-10-10 06:26:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.04 Mbit/s  
95th percentile per-packet one-way delay: 1128.562 ms  
Loss rate: 3.10%  
-- Flow 1:  
Average throughput: 57.35 Mbit/s  
95th percentile per-packet one-way delay: 158.369 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 33.84 Mbit/s  
95th percentile per-packet one-way delay: 1736.354 ms  
Loss rate: 9.85%  
-- Flow 3:  
Average throughput: 21.90 Mbit/s  
95th percentile per-packet one-way delay: 95.888 ms  
Loss rate: 2.18%

Run 4: Report of PCC-Vivace — Data Link



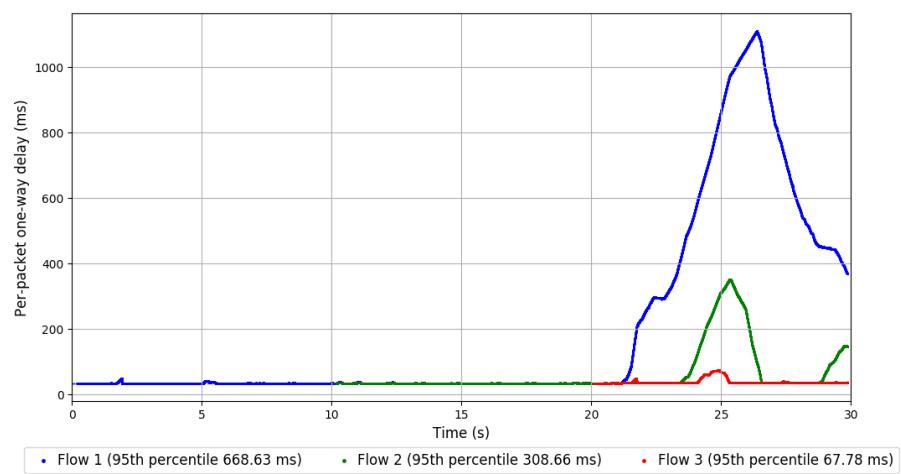
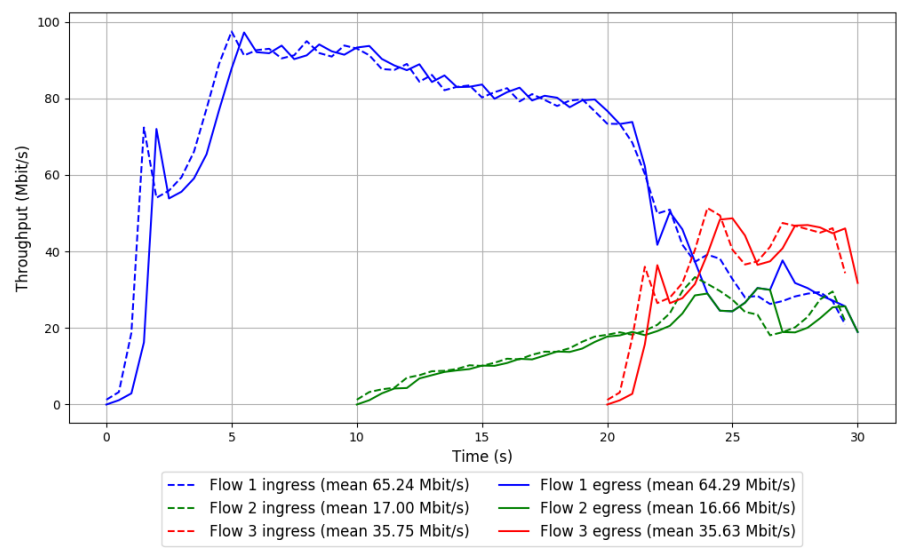


Run 5: Statistics of PCC-Vivace

Start at: 2018-10-10 06:00:15  
End at: 2018-10-10 06:00:45  
Local clock offset: 3.659 ms  
Remote clock offset: -2.413 ms

# Below is generated by plot.py at 2018-10-10 06:26:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.08 Mbit/s  
95th percentile per-packet one-way delay: 513.669 ms  
Loss rate: 1.66%  
-- Flow 1:  
Average throughput: 64.29 Mbit/s  
95th percentile per-packet one-way delay: 668.634 ms  
Loss rate: 1.67%  
-- Flow 2:  
Average throughput: 16.66 Mbit/s  
95th percentile per-packet one-way delay: 308.658 ms  
Loss rate: 2.35%  
-- Flow 3:  
Average throughput: 35.63 Mbit/s  
95th percentile per-packet one-way delay: 67.778 ms  
Loss rate: 0.94%

Run 5: Report of PCC-Vivace — Data Link

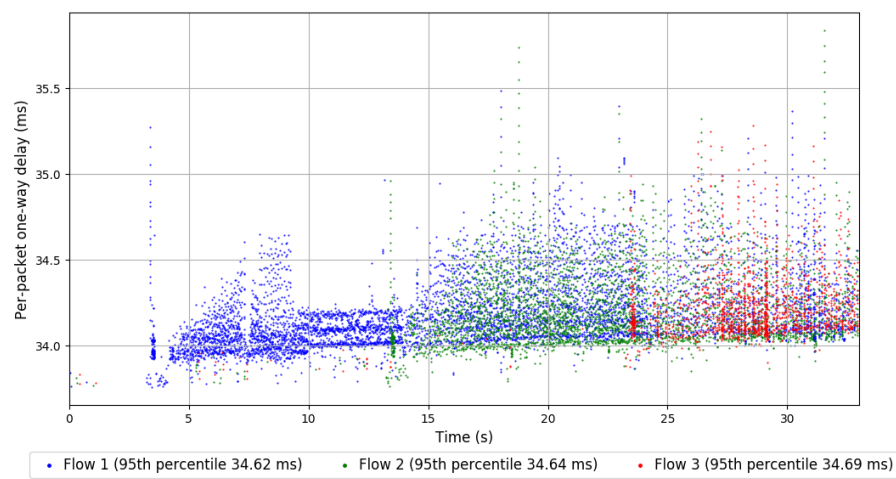
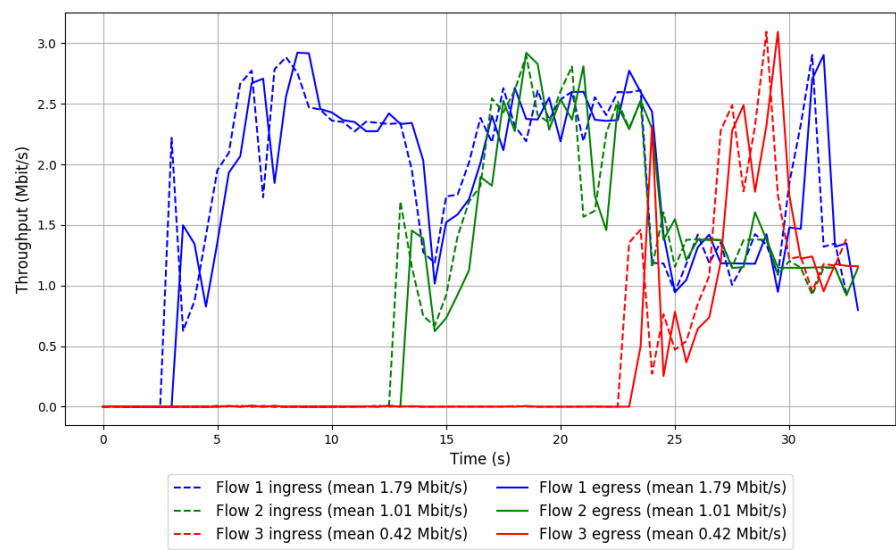


Run 1: Statistics of WebRTC media

Start at: 2018-10-10 04:28:56  
End at: 2018-10-10 04:29:26  
Local clock offset: 5.102 ms  
Remote clock offset: -4.439 ms

# Below is generated by plot.py at 2018-10-10 06:26:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.21 Mbit/s  
95th percentile per-packet one-way delay: 34.631 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 1.79 Mbit/s  
95th percentile per-packet one-way delay: 34.618 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 1.01 Mbit/s  
95th percentile per-packet one-way delay: 34.637 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 34.685 ms  
Loss rate: 0.84%

Run 1: Report of WebRTC media — Data Link

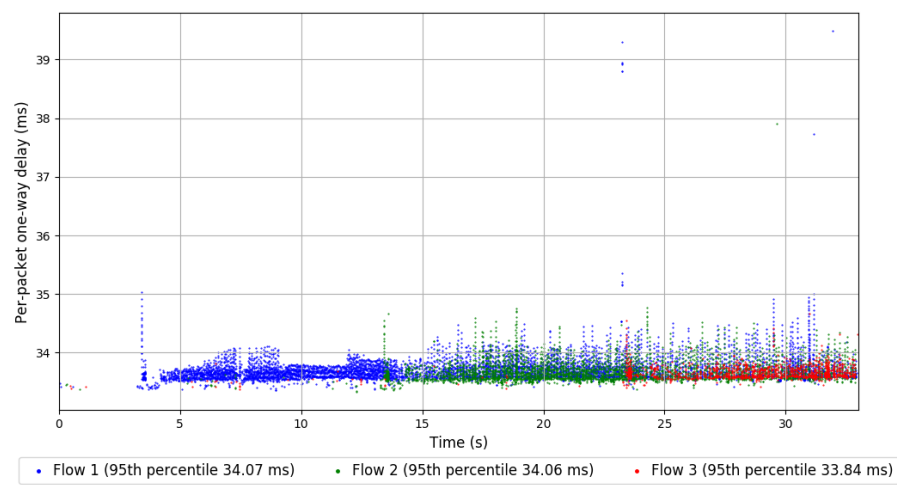
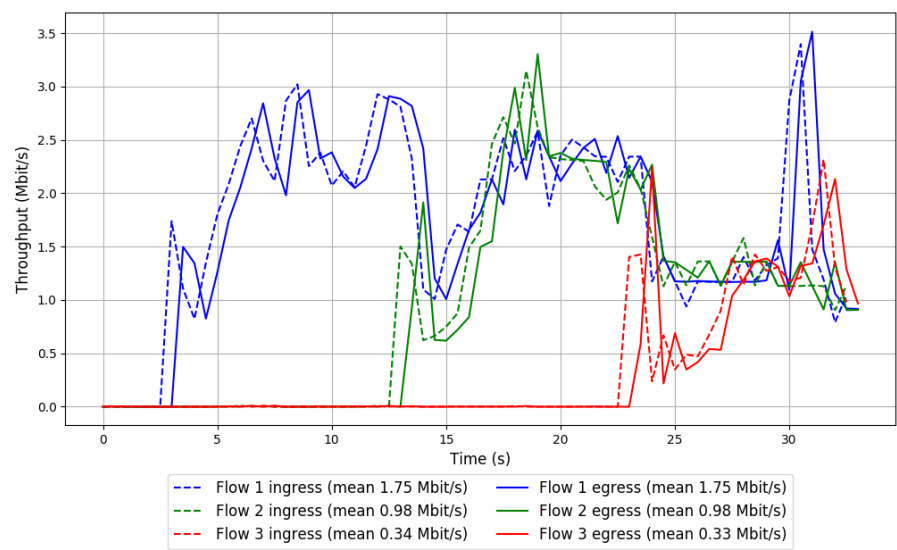


Run 2: Statistics of WebRTC media

Start at: 2018-10-10 04:53:52  
End at: 2018-10-10 04:54:22  
Local clock offset: 2.178 ms  
Remote clock offset: -3.642 ms

# Below is generated by plot.py at 2018-10-10 06:26:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.05 Mbit/s  
95th percentile per-packet one-way delay: 34.054 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 1.75 Mbit/s  
95th percentile per-packet one-way delay: 34.072 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 0.98 Mbit/s  
95th percentile per-packet one-way delay: 34.065 ms  
Loss rate: 0.35%  
-- Flow 3:  
Average throughput: 0.33 Mbit/s  
95th percentile per-packet one-way delay: 33.843 ms  
Loss rate: 0.99%

Run 2: Report of WebRTC media — Data Link

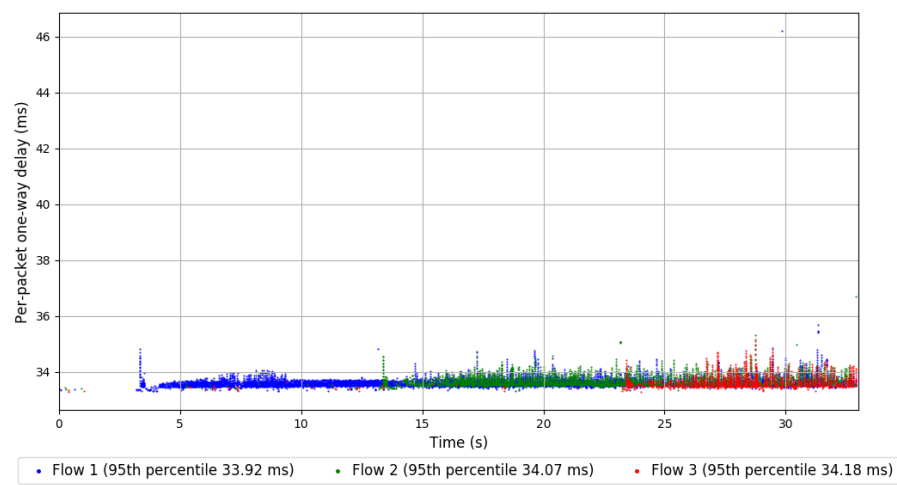
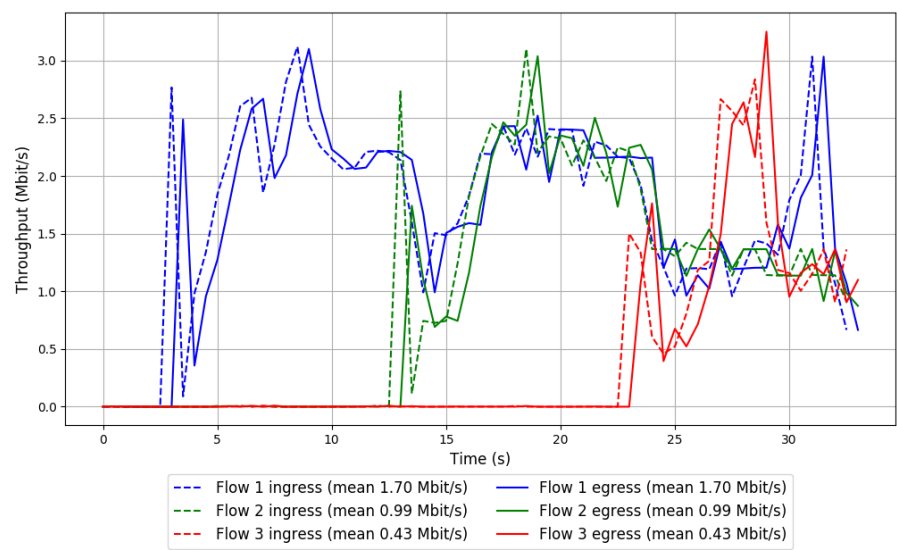


Run 3: Statistics of WebRTC media

Start at: 2018-10-10 05:18:42  
End at: 2018-10-10 05:19:12  
Local clock offset: 1.808 ms  
Remote clock offset: -2.992 ms

# Below is generated by plot.py at 2018-10-10 06:26:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.10 Mbit/s  
95th percentile per-packet one-way delay: 34.021 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 1.70 Mbit/s  
95th percentile per-packet one-way delay: 33.919 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.99 Mbit/s  
95th percentile per-packet one-way delay: 34.067 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 34.183 ms  
Loss rate: 0.95%

Run 3: Report of WebRTC media — Data Link



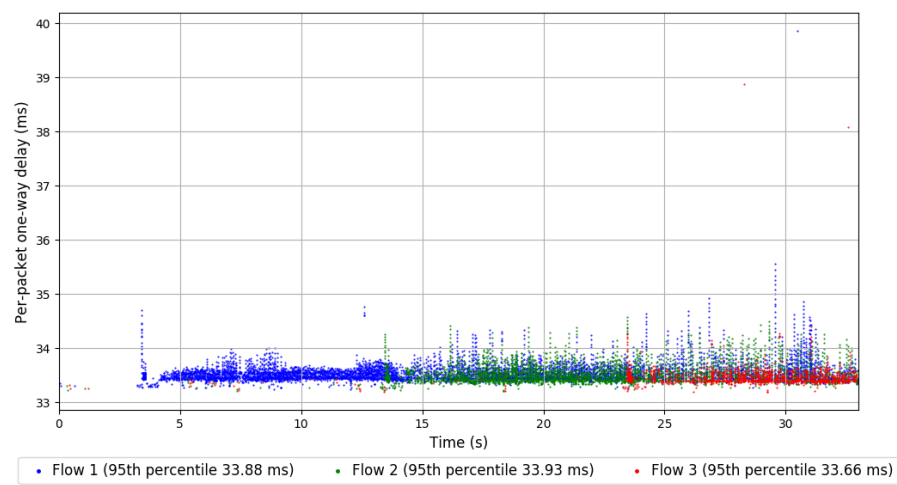
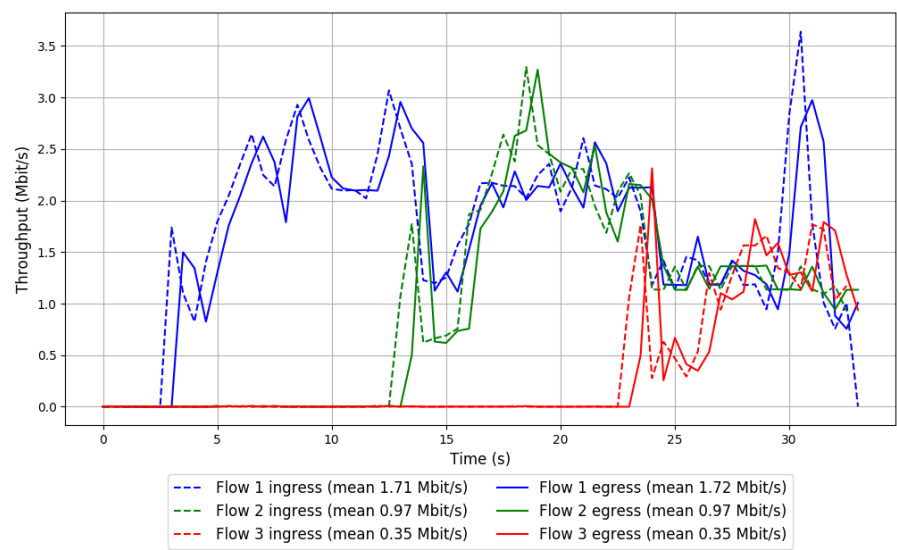


Run 4: Statistics of WebRTC media

Start at: 2018-10-10 05:43:28  
End at: 2018-10-10 05:43:58  
Local clock offset: 3.654 ms  
Remote clock offset: -2.564 ms

# Below is generated by plot.py at 2018-10-10 06:26:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.02 Mbit/s  
95th percentile per-packet one-way delay: 33.884 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 1.72 Mbit/s  
95th percentile per-packet one-way delay: 33.878 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 0.97 Mbit/s  
95th percentile per-packet one-way delay: 33.927 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 0.35 Mbit/s  
95th percentile per-packet one-way delay: 33.655 ms  
Loss rate: 1.02%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-10-10 06:08:43  
End at: 2018-10-10 06:09:13  
Local clock offset: 3.355 ms  
Remote clock offset: -2.419 ms

# Below is generated by plot.py at 2018-10-10 06:26:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.12 Mbit/s  
95th percentile per-packet one-way delay: 33.966 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 1.73 Mbit/s  
95th percentile per-packet one-way delay: 33.890 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 0.97 Mbit/s  
95th percentile per-packet one-way delay: 34.011 ms  
Loss rate: 0.35%  
-- Flow 3:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 34.087 ms  
Loss rate: 0.84%

Run 5: Report of WebRTC media — Data Link

