

## Pantheon Report

Generated at 2018-10-02 18:32:51 (UTC).

Data path: Brazil on **p4p1** (*remote*) → AWS Brazil 1 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 **gps.ntp.br** and have been applied to correct the timestamps in logs.

### System info:

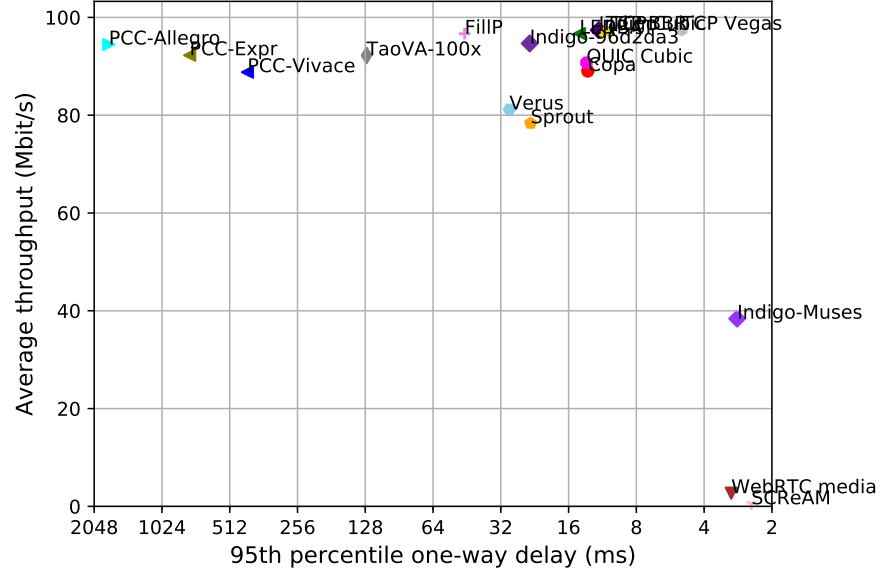
```
Linux 4.15.0-1021-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

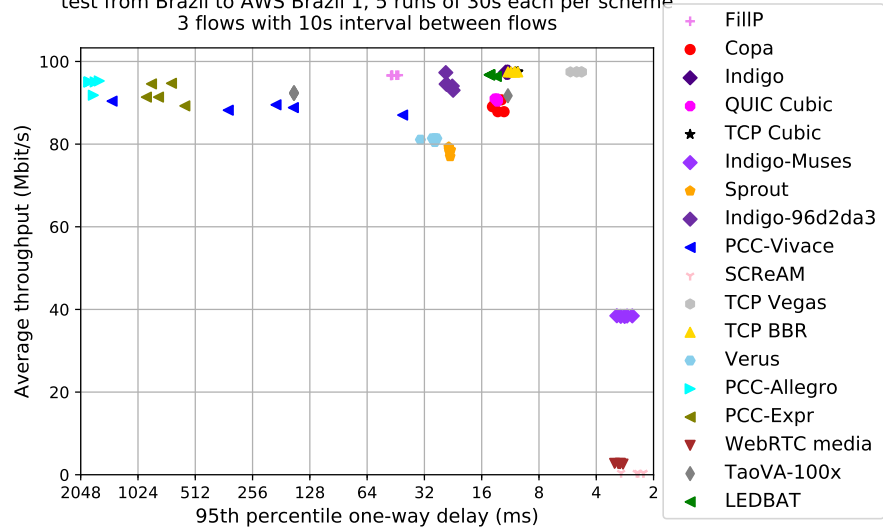
```
branch: muses @ 2e19c0464530faa92c63f8217c9971438a26a3be
third_party/fillp @ 5332fc9127c63565e13f4933b336c02d1aabdac6
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

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

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	59.26	40.93	33.00	10.66	11.19	12.97	0.39	0.69	1.38
Copa	5	52.77	38.95	31.10	12.19	13.91	15.02	0.04	0.07	0.15
TCP Cubic	5	59.60	40.64	32.48	10.46	10.33	10.64	0.07	0.14	0.23
FillP	5	58.88	40.62	32.45	34.37	53.83	48.07	1.59	1.64	1.06
Indigo	5	59.68	40.68	32.44	9.75	12.16	9.90	0.03	2.14	0.67
Indigo-96d2da3	5	55.46	42.46	33.08	14.13	20.36	25.26	0.16	0.98	3.17
LEDBAT	5	58.97	40.50	32.37	14.06	14.59	13.57	0.12	0.22	0.36
Indigo-Muses	5	19.40	19.07	19.00	2.76	2.86	3.13	0.02	0.02	0.05
PCC-Allegro	5	61.71	36.86	25.04	1812.45	793.53	30.42	16.09	7.59	0.37
PCC-Expr	5	57.88	36.71	30.22	662.77	422.81	394.74	24.67	4.21	4.04
QUIC Cubic	5	53.79	40.10	31.09	13.11	13.27	13.86	0.16	0.30	0.48
SCReAM	5	0.22	0.22	0.22	2.47	2.46	2.45	0.00	0.04	0.07
Sprout	5	42.42	38.02	32.23	22.23	23.66	24.88	0.05	0.07	0.16
TaoVA-100x	5	56.26	40.46	27.14	125.73	126.70	132.06	0.42	0.90	2.27
TCP Vegas	5	53.98	48.72	33.25	4.56	4.83	5.39	0.01	0.02	0.06
Verus	5	47.35	35.31	31.02	25.86	27.96	113.20	0.05	0.09	0.18
PCC-Vivace	5	54.92	37.55	26.99	405.00	215.58	10.47	1.20	0.88	0.14
WebRTC media	5	1.52	0.80	0.39	3.00	2.97	3.15	0.00	0.00	0.00

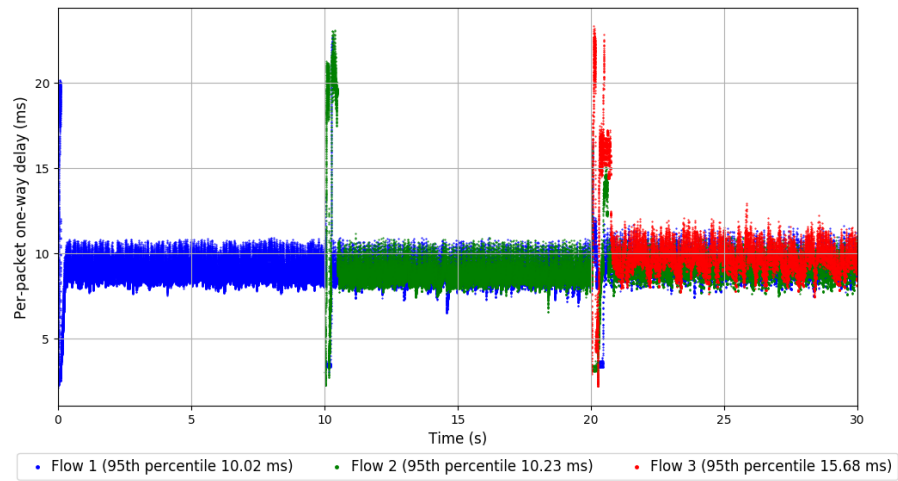
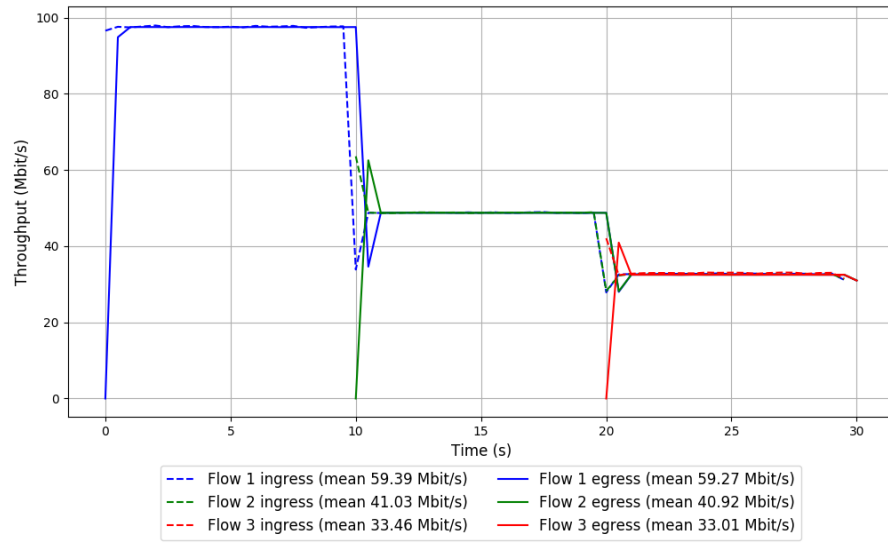


Run 1: Statistics of TCP BBR

Start at: 2018-10-02 16:36:32  
End at: 2018-10-02 16:37:02  
Local clock offset: -3.107 ms  
Remote clock offset: -0.865 ms

# Below is generated by plot.py at 2018-10-02 18:20:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 10.344 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 59.27 Mbit/s  
95th percentile per-packet one-way delay: 10.018 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 40.92 Mbit/s  
95th percentile per-packet one-way delay: 10.230 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 33.01 Mbit/s  
95th percentile per-packet one-way delay: 15.676 ms  
Loss rate: 1.39%

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

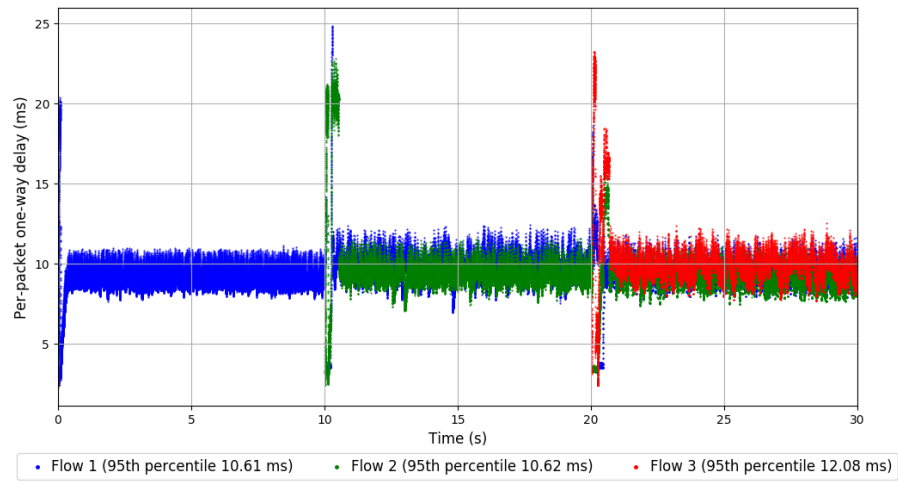
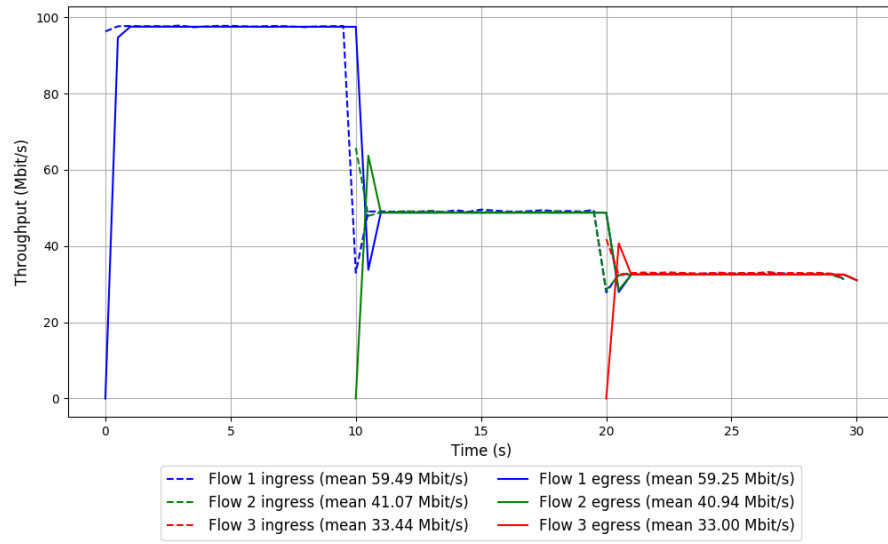


Run 2: Statistics of TCP BBR

Start at: 2018-10-02 16:57:22  
End at: 2018-10-02 16:57:52  
Local clock offset: -2.072 ms  
Remote clock offset: -0.954 ms

# Below is generated by plot.py at 2018-10-02 18:20:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 10.744 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 59.25 Mbit/s  
95th percentile per-packet one-way delay: 10.609 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 40.94 Mbit/s  
95th percentile per-packet one-way delay: 10.623 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 33.00 Mbit/s  
95th percentile per-packet one-way delay: 12.079 ms  
Loss rate: 1.36%

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

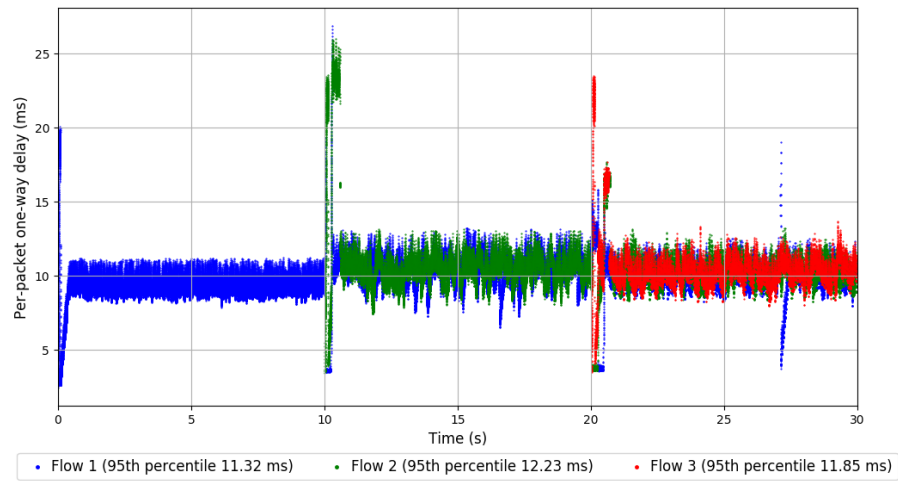
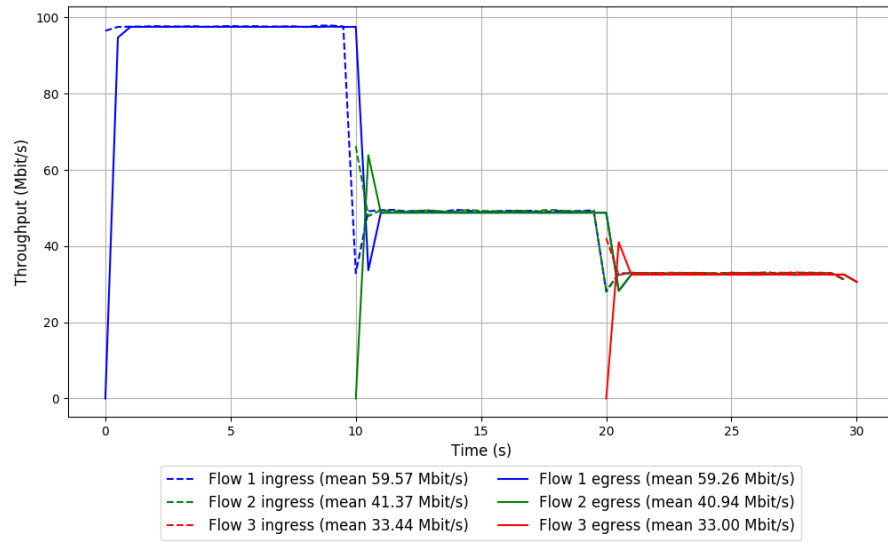


Run 3: Statistics of TCP BBR

Start at: 2018-10-02 17:18:11  
End at: 2018-10-02 17:18:41  
Local clock offset: -2.815 ms  
Remote clock offset: -0.855 ms

# Below is generated by plot.py at 2018-10-02 18:20:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 11.636 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 59.26 Mbit/s  
95th percentile per-packet one-way delay: 11.320 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 40.94 Mbit/s  
95th percentile per-packet one-way delay: 12.227 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 33.00 Mbit/s  
95th percentile per-packet one-way delay: 11.849 ms  
Loss rate: 1.37%

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



Run 4: Statistics of TCP BBR

Start at: 2018-10-02 17:39:01

End at: 2018-10-02 17:39:31

Local clock offset: -6.893 ms

Remote clock offset: -0.8 ms

# Below is generated by plot.py at 2018-10-02 18:20:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 10.760 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 59.25 Mbit/s

95th percentile per-packet one-way delay: 10.357 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 40.93 Mbit/s

95th percentile per-packet one-way delay: 11.089 ms

Loss rate: 0.59%

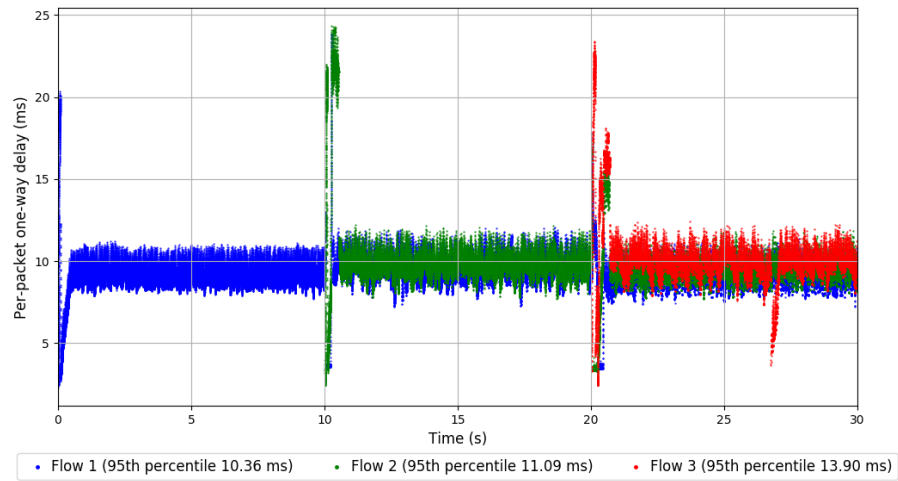
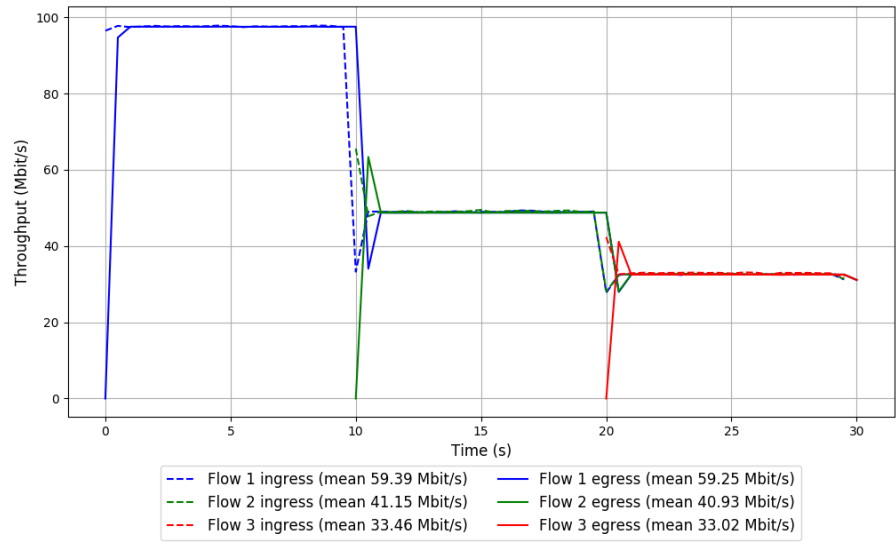
-- Flow 3:

Average throughput: 33.02 Mbit/s

95th percentile per-packet one-way delay: 13.900 ms

Loss rate: 1.40%

# Run 4: Report of TCP BBR — Data Link



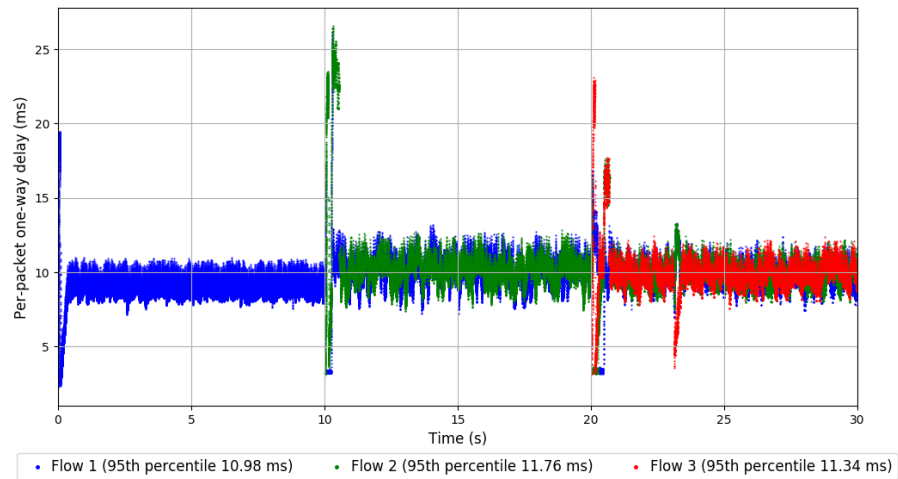
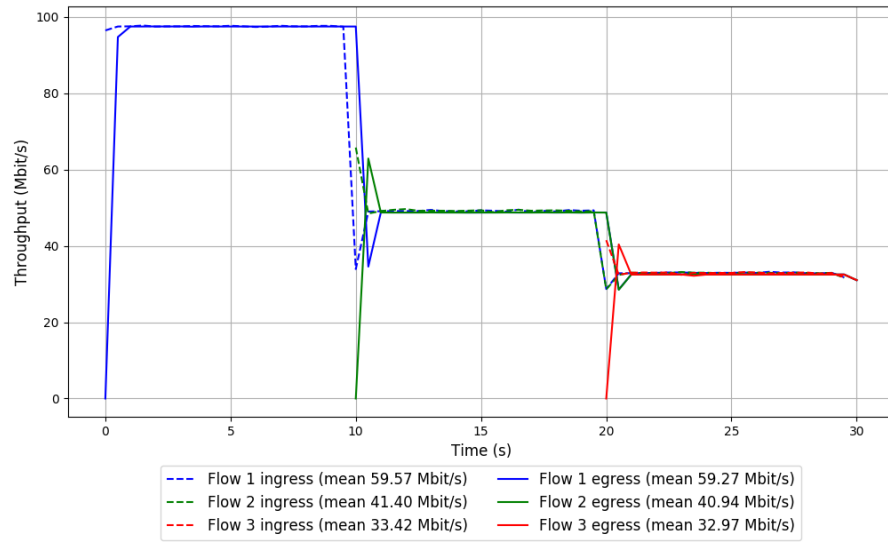


Run 5: Statistics of TCP BBR

Start at: 2018-10-02 17:59:50  
End at: 2018-10-02 18:00:20  
Local clock offset: -3.624 ms  
Remote clock offset: -0.811 ms

# Below is generated by plot.py at 2018-10-02 18:20:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 11.235 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 59.27 Mbit/s  
95th percentile per-packet one-way delay: 10.984 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 40.94 Mbit/s  
95th percentile per-packet one-way delay: 11.763 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 32.97 Mbit/s  
95th percentile per-packet one-way delay: 11.342 ms  
Loss rate: 1.40%

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

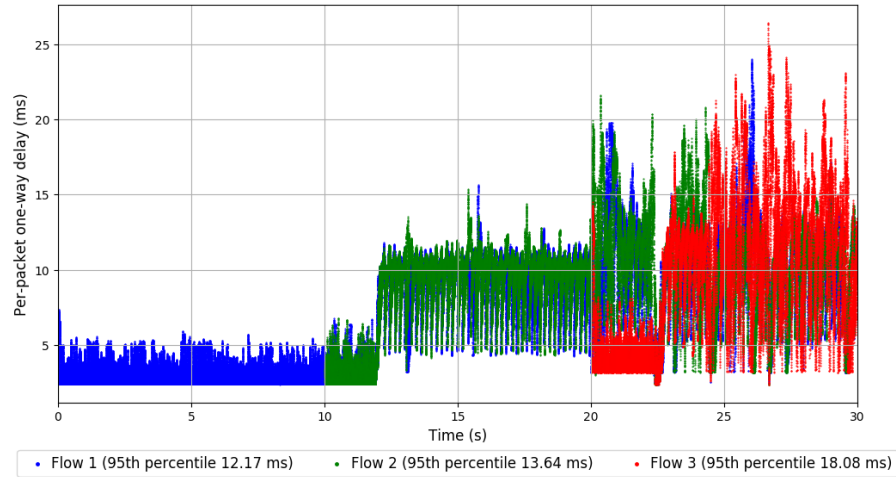
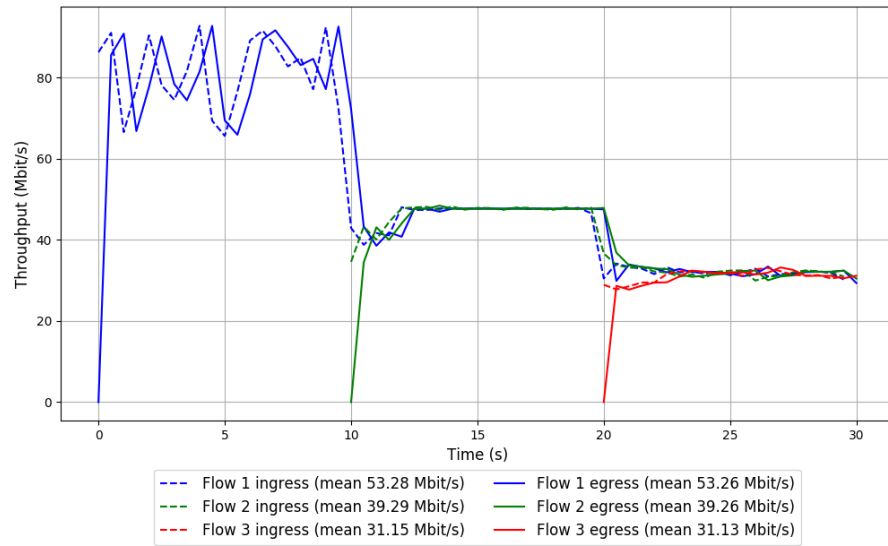


Run 1: Statistics of Copa

Start at: 2018-10-02 16:35:19  
End at: 2018-10-02 16:35:49  
Local clock offset: -3.165 ms  
Remote clock offset: -0.975 ms

# Below is generated by plot.py at 2018-10-02 18:21:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.74 Mbit/s  
95th percentile per-packet one-way delay: 13.670 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 53.26 Mbit/s  
95th percentile per-packet one-way delay: 12.173 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 39.26 Mbit/s  
95th percentile per-packet one-way delay: 13.637 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 31.13 Mbit/s  
95th percentile per-packet one-way delay: 18.082 ms  
Loss rate: 0.13%

## Run 1: Report of Copa — Data Link

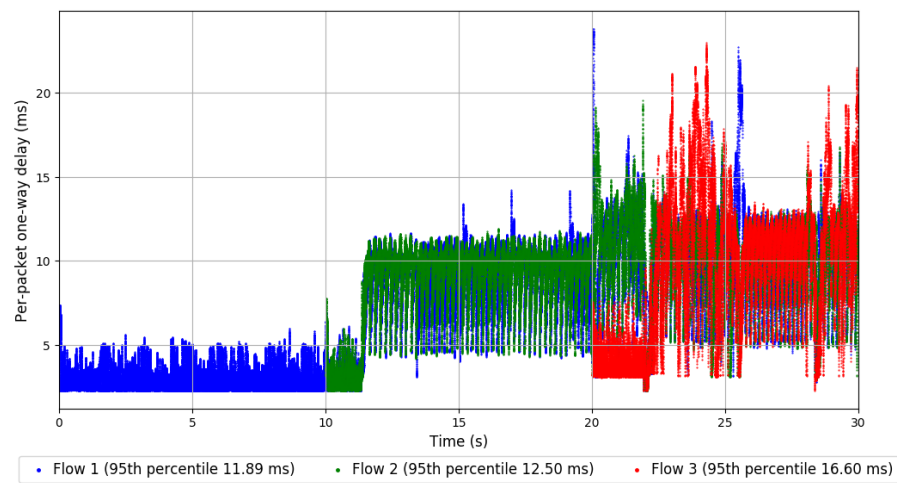
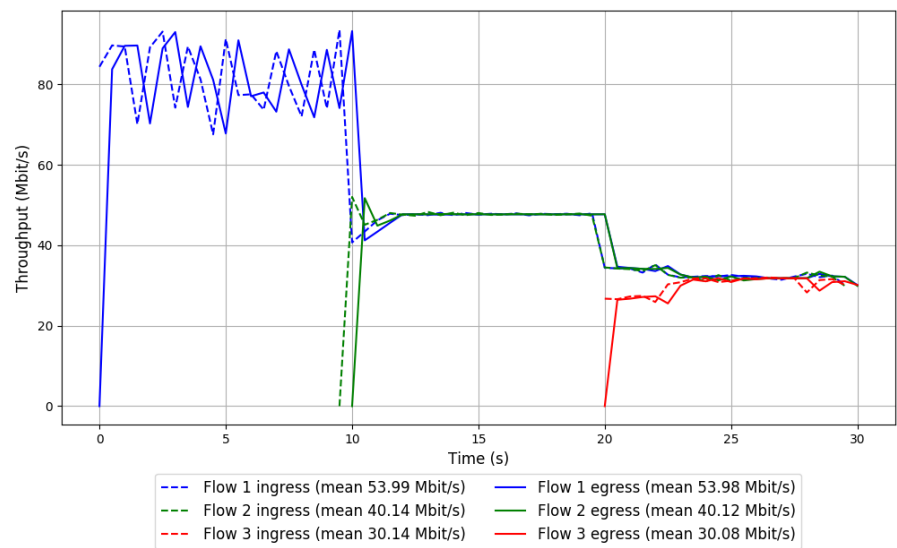


Run 2: Statistics of Copa

Start at: 2018-10-02 16:56:10  
End at: 2018-10-02 16:56:40  
Local clock offset: -2.181 ms  
Remote clock offset: -0.964 ms

# Below is generated by plot.py at 2018-10-02 18:21:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.71 Mbit/s  
95th percentile per-packet one-way delay: 12.617 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 53.98 Mbit/s  
95th percentile per-packet one-way delay: 11.893 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 40.12 Mbit/s  
95th percentile per-packet one-way delay: 12.498 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 30.08 Mbit/s  
95th percentile per-packet one-way delay: 16.600 ms  
Loss rate: 0.25%

Run 2: Report of Copa — Data Link

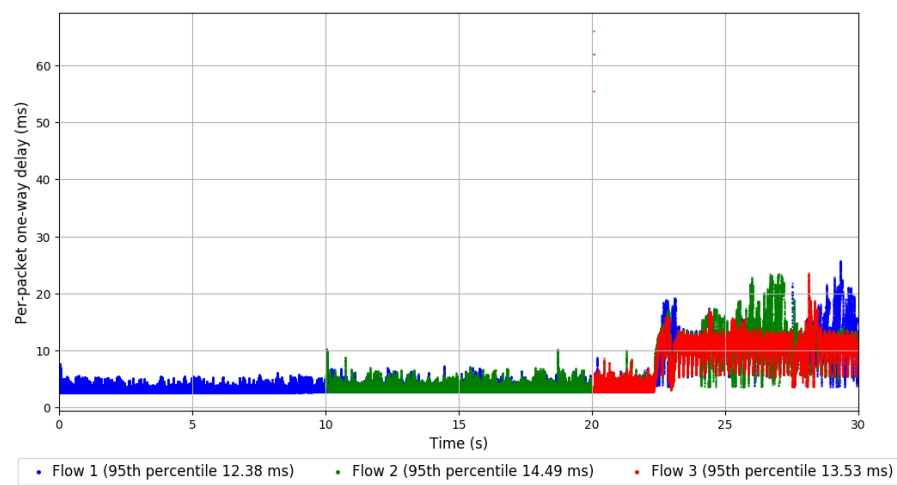
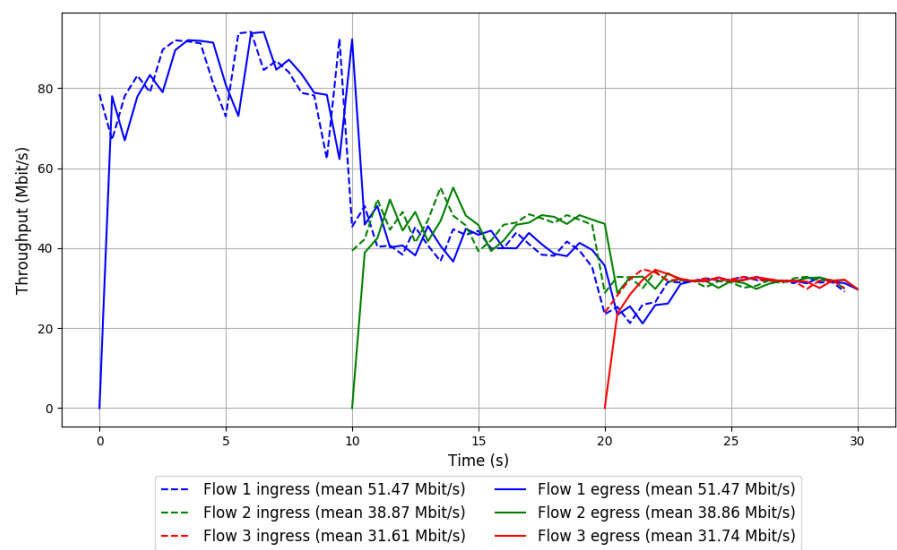


Run 3: Statistics of Copa

Start at: 2018-10-02 17:16:59  
End at: 2018-10-02 17:17:29  
Local clock offset: -2.126 ms  
Remote clock offset: -0.814 ms

# Below is generated by plot.py at 2018-10-02 18:21:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.85 Mbit/s  
95th percentile per-packet one-way delay: 13.171 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 51.47 Mbit/s  
95th percentile per-packet one-way delay: 12.385 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 38.86 Mbit/s  
95th percentile per-packet one-way delay: 14.487 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 31.74 Mbit/s  
95th percentile per-packet one-way delay: 13.533 ms  
Loss rate: 0.17%

Run 3: Report of Copa — Data Link



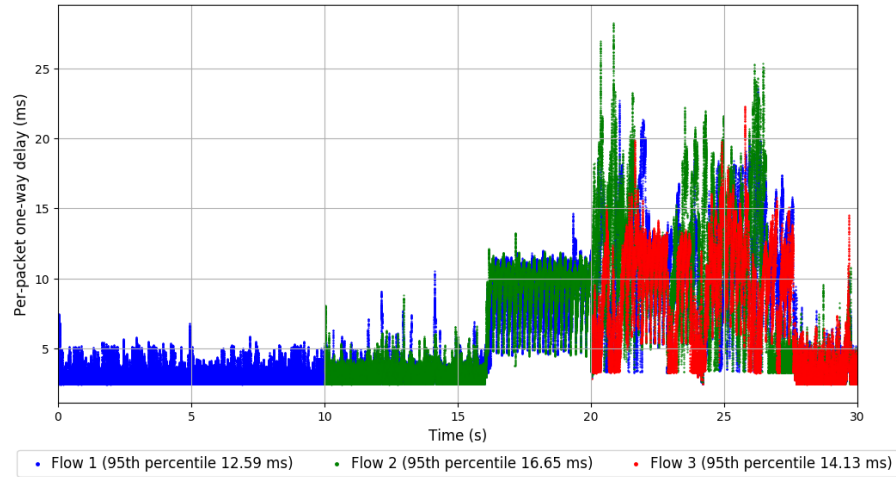
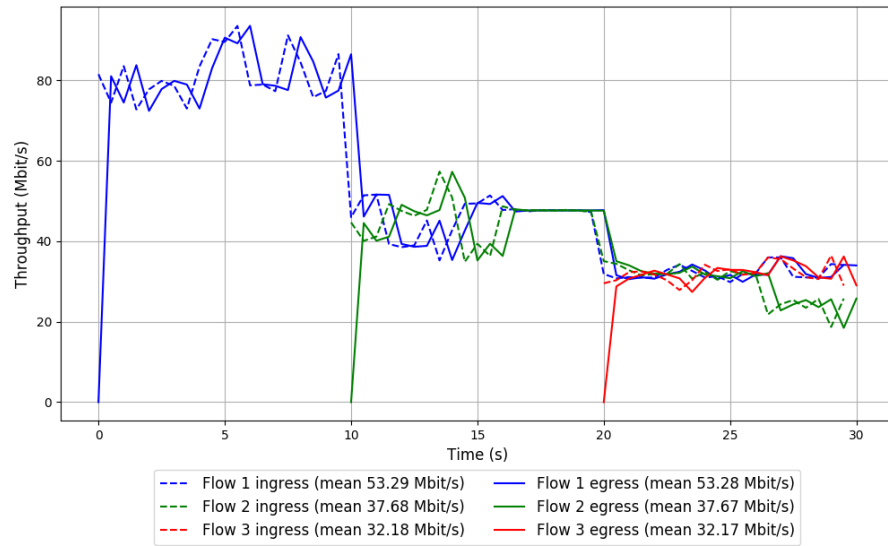


Run 4: Statistics of Copa

Start at: 2018-10-02 17:37:49  
End at: 2018-10-02 17:38:19  
Local clock offset: -6.788 ms  
Remote clock offset: -0.872 ms

```
# Below is generated by plot.py at 2018-10-02 18:22:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.06 Mbit/s
95th percentile per-packet one-way delay: 14.049 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 53.28 Mbit/s
95th percentile per-packet one-way delay: 12.592 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 37.67 Mbit/s
95th percentile per-packet one-way delay: 16.654 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 32.17 Mbit/s
95th percentile per-packet one-way delay: 14.133 ms
Loss rate: 0.06%
```

# Run 4: Report of Copa — Data Link

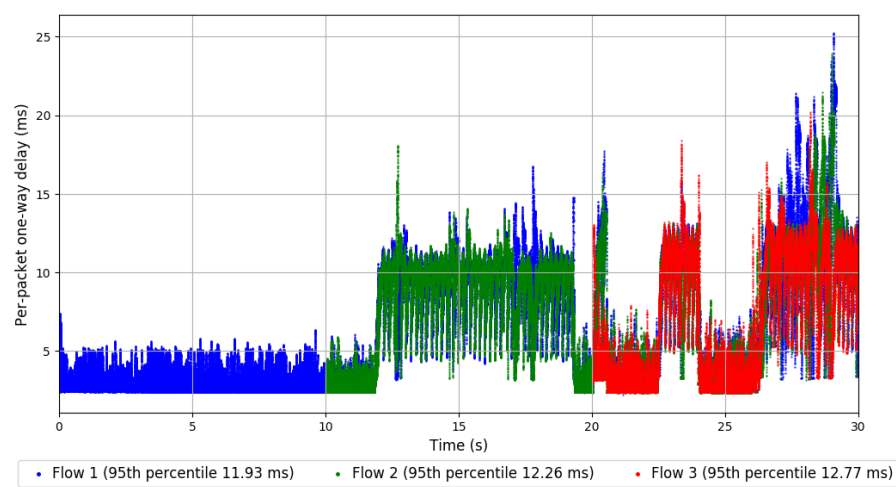
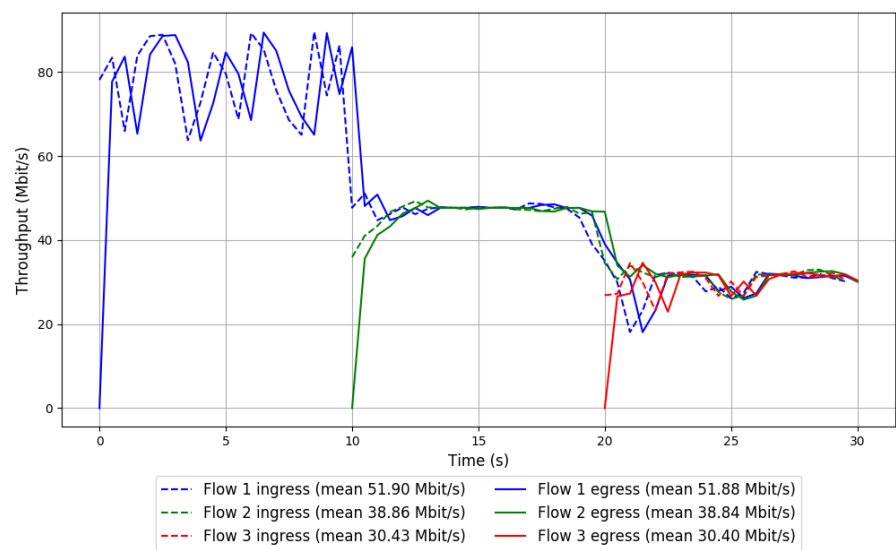


Run 5: Statistics of Copa

Start at: 2018-10-02 17:58:38  
End at: 2018-10-02 17:59:08  
Local clock offset: -3.715 ms  
Remote clock offset: -0.843 ms

# Below is generated by plot.py at 2018-10-02 18:22:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.85 Mbit/s  
95th percentile per-packet one-way delay: 12.207 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 51.88 Mbit/s  
95th percentile per-packet one-way delay: 11.931 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 38.84 Mbit/s  
95th percentile per-packet one-way delay: 12.264 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 30.40 Mbit/s  
95th percentile per-packet one-way delay: 12.772 ms  
Loss rate: 0.16%

Run 5: Report of Copa — Data Link

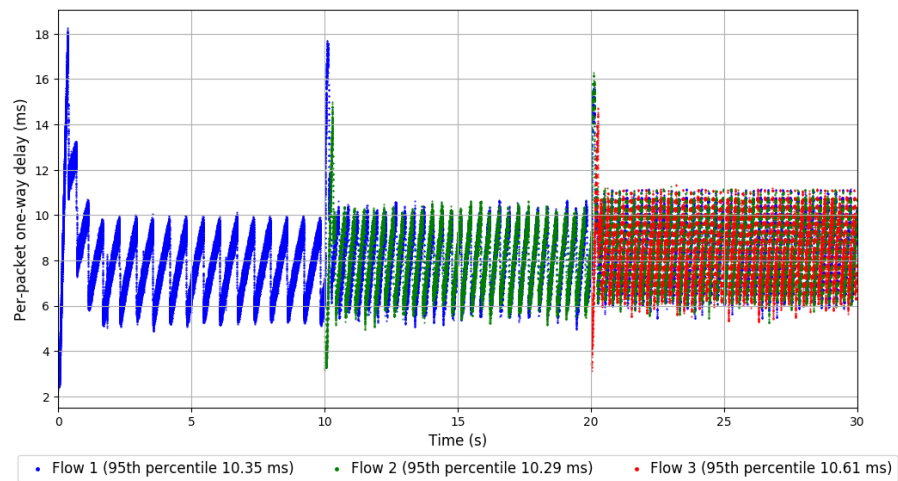
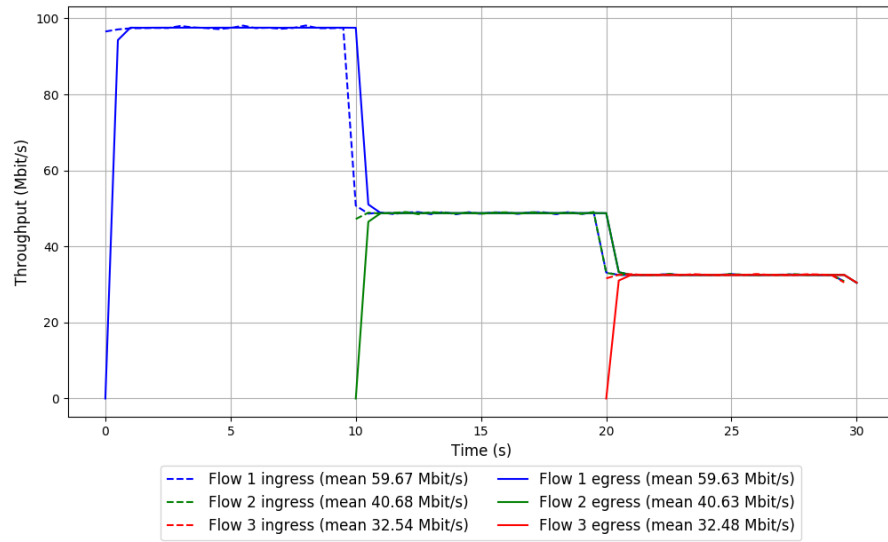


Run 1: Statistics of TCP Cubic

Start at: 2018-10-02 16:42:20  
End at: 2018-10-02 16:42:50  
Local clock offset: -2.587 ms  
Remote clock offset: -1.019 ms

# Below is generated by plot.py at 2018-10-02 18:22:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 10.360 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 59.63 Mbit/s  
95th percentile per-packet one-way delay: 10.349 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 40.63 Mbit/s  
95th percentile per-packet one-way delay: 10.286 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 32.48 Mbit/s  
95th percentile per-packet one-way delay: 10.606 ms  
Loss rate: 0.22%

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

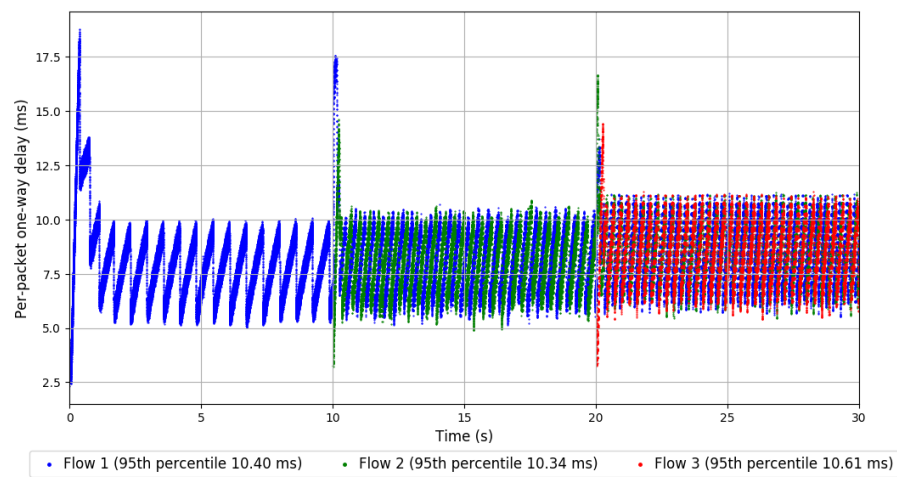
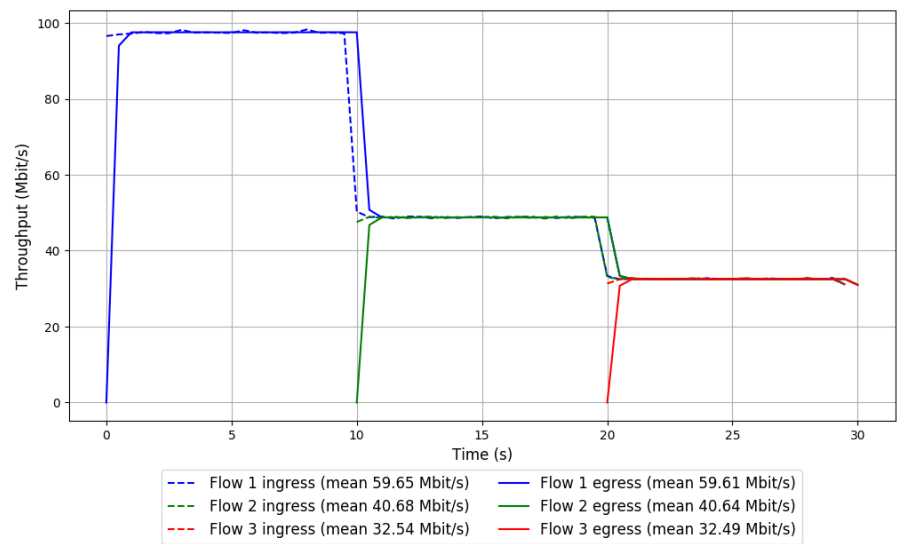


Run 2: Statistics of TCP Cubic

Start at: 2018-10-02 17:03:10  
End at: 2018-10-02 17:03:40  
Local clock offset: -1.862 ms  
Remote clock offset: -0.964 ms

# Below is generated by plot.py at 2018-10-02 18:22:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 10.391 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 59.61 Mbit/s  
95th percentile per-packet one-way delay: 10.403 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 40.64 Mbit/s  
95th percentile per-packet one-way delay: 10.337 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 32.49 Mbit/s  
95th percentile per-packet one-way delay: 10.608 ms  
Loss rate: 0.22%

Run 2: Report of TCP Cubic — Data Link



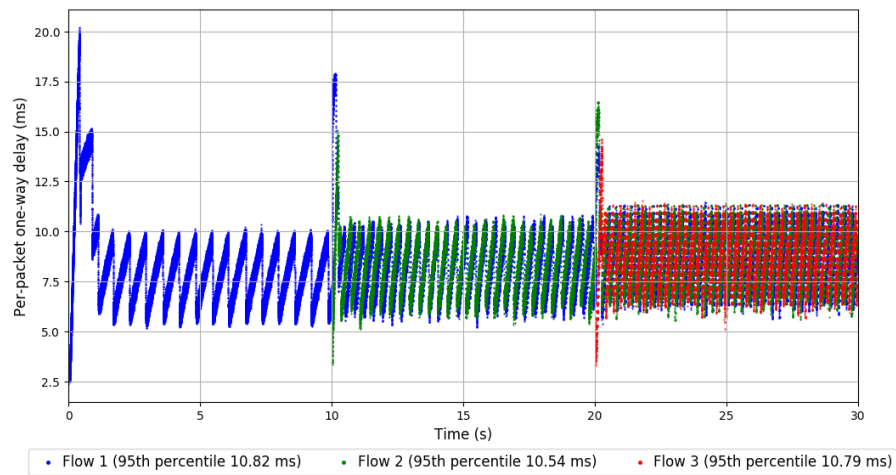
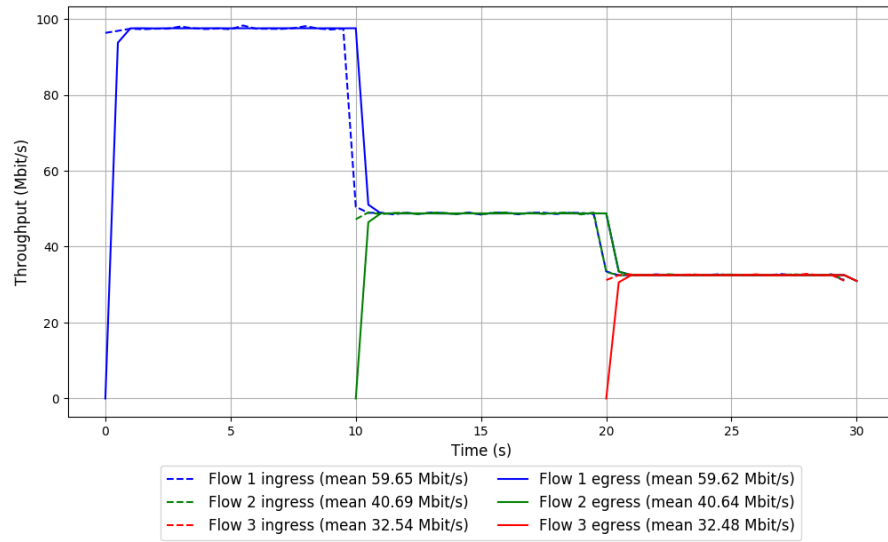


Run 3: Statistics of TCP Cubic

Start at: 2018-10-02 17:24:00  
End at: 2018-10-02 17:24:30  
Local clock offset: -4.848 ms  
Remote clock offset: -0.868 ms

# Below is generated by plot.py at 2018-10-02 18:22:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 10.642 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 59.62 Mbit/s  
95th percentile per-packet one-way delay: 10.816 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 40.64 Mbit/s  
95th percentile per-packet one-way delay: 10.538 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 32.48 Mbit/s  
95th percentile per-packet one-way delay: 10.795 ms  
Loss rate: 0.22%

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

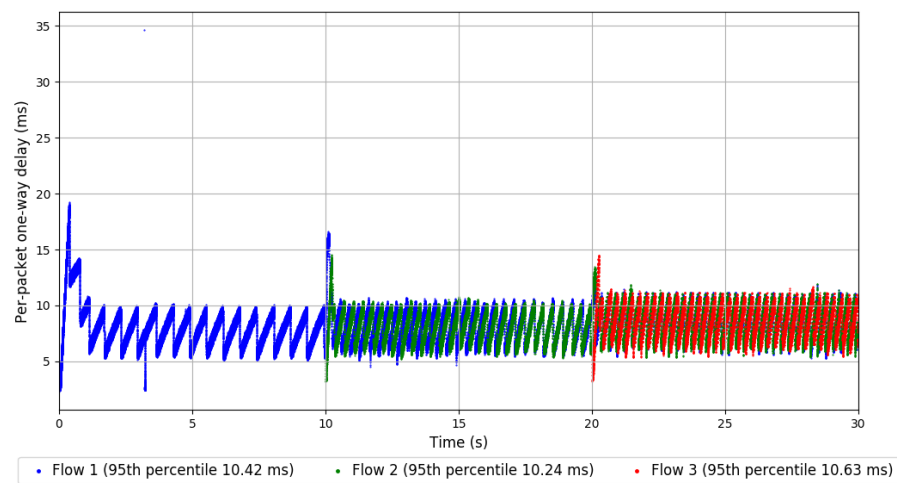
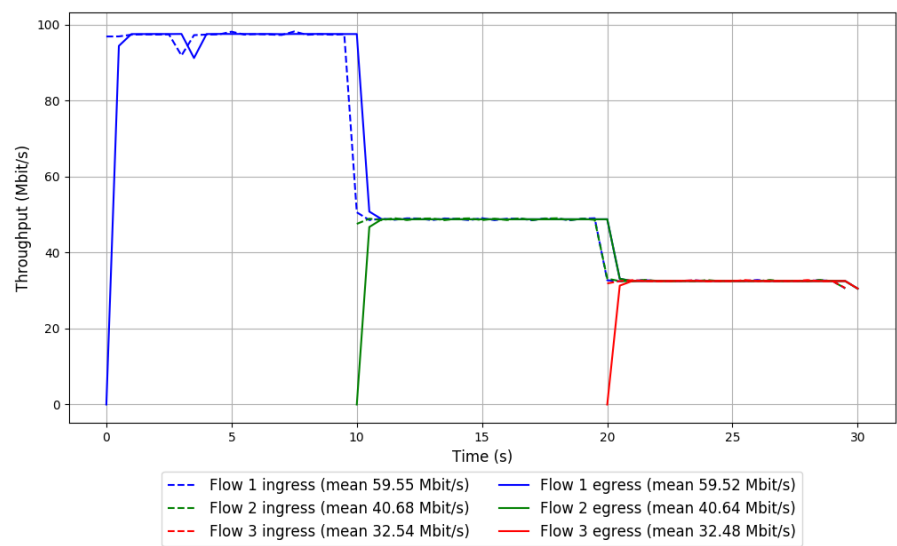


Run 4: Statistics of TCP Cubic

Start at: 2018-10-02 17:44:50  
End at: 2018-10-02 17:45:20  
Local clock offset: -7.242 ms  
Remote clock offset: -0.815 ms

# Below is generated by plot.py at 2018-10-02 18:22:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.37 Mbit/s  
95th percentile per-packet one-way delay: 10.377 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 59.52 Mbit/s  
95th percentile per-packet one-way delay: 10.416 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 40.64 Mbit/s  
95th percentile per-packet one-way delay: 10.245 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 32.48 Mbit/s  
95th percentile per-packet one-way delay: 10.626 ms  
Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link

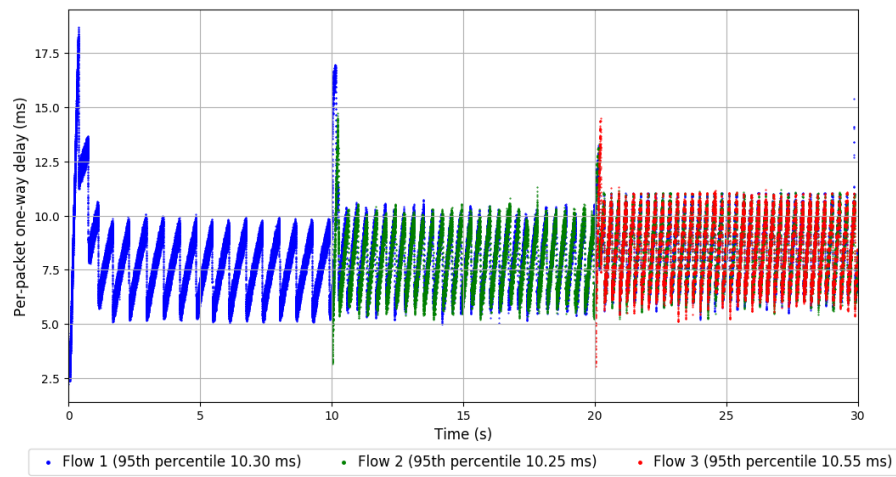
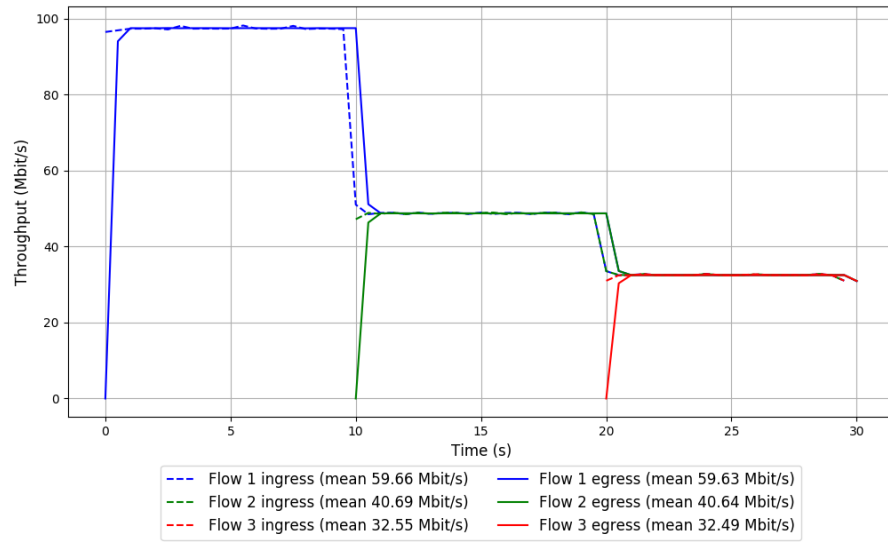


Run 5: Statistics of TCP Cubic

Start at: 2018-10-02 18:05:39  
End at: 2018-10-02 18:06:09  
Local clock offset: -3.047 ms  
Remote clock offset: -0.759 ms

# Below is generated by plot.py at 2018-10-02 18:22:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 10.301 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 59.63 Mbit/s  
95th percentile per-packet one-way delay: 10.304 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 40.64 Mbit/s  
95th percentile per-packet one-way delay: 10.249 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 32.49 Mbit/s  
95th percentile per-packet one-way delay: 10.546 ms  
Loss rate: 0.24%

# Run 5: Report of TCP Cubic — Data Link

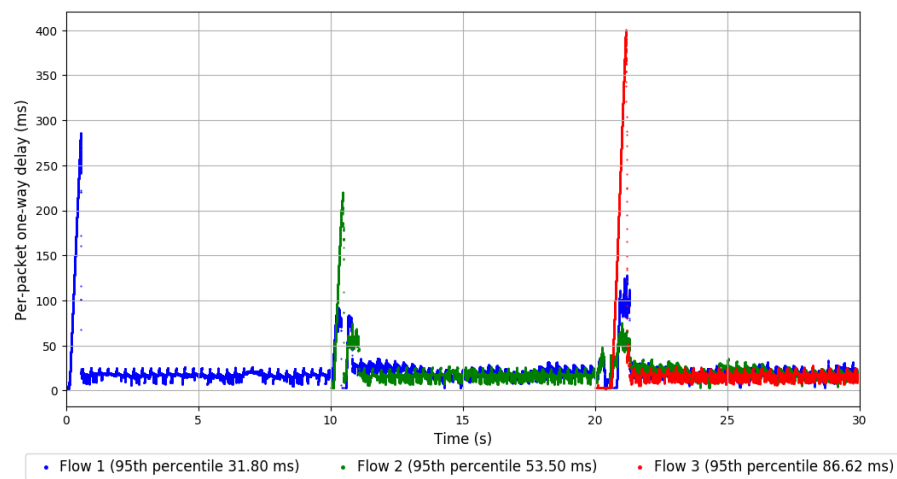
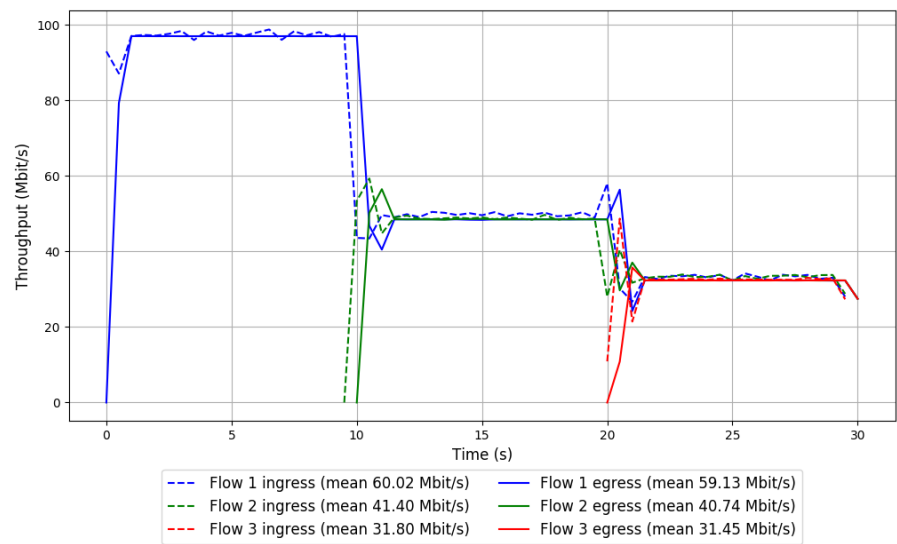


Run 1: Statistics of FillP

Start at: 2018-10-02 16:44:41  
End at: 2018-10-02 16:45:11  
Local clock offset: -2.513 ms  
Remote clock offset: -1.008 ms

# Below is generated by plot.py at 2018-10-02 18:23:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.67 Mbit/s  
95th percentile per-packet one-way delay: 47.245 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 59.13 Mbit/s  
95th percentile per-packet one-way delay: 31.802 ms  
Loss rate: 1.48%  
-- Flow 2:  
Average throughput: 40.74 Mbit/s  
95th percentile per-packet one-way delay: 53.496 ms  
Loss rate: 1.62%  
-- Flow 3:  
Average throughput: 31.45 Mbit/s  
95th percentile per-packet one-way delay: 86.617 ms  
Loss rate: 1.08%

Run 1: Report of FillP — Data Link



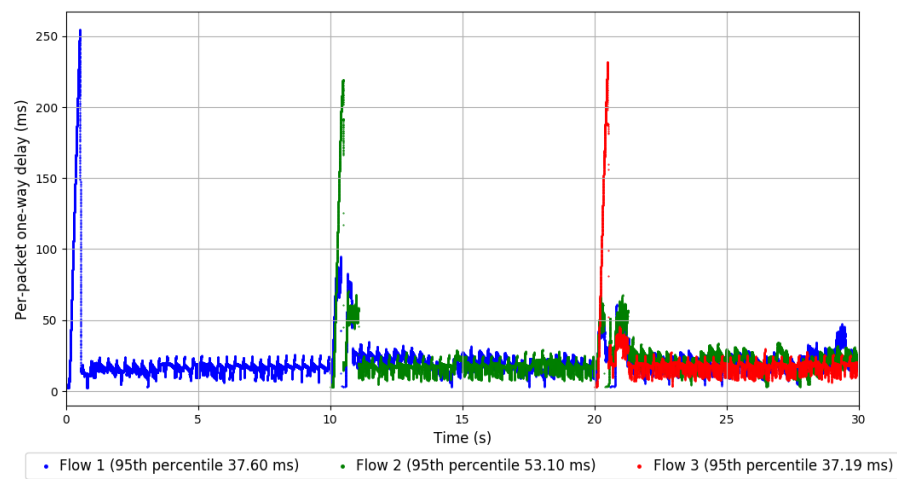
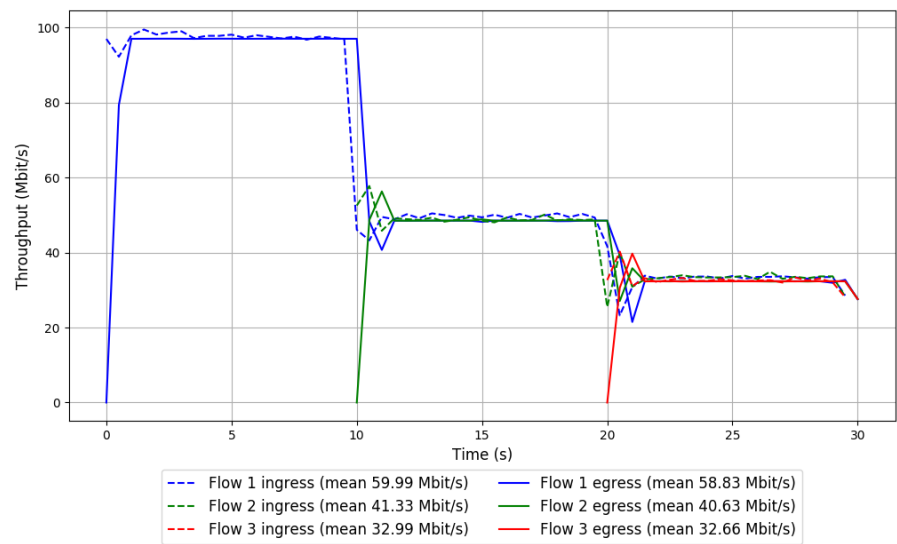


Run 2: Statistics of FillP

Start at: 2018-10-02 17:05:30  
End at: 2018-10-02 17:06:00  
Local clock offset: -1.832 ms  
Remote clock offset: -0.892 ms

# Below is generated by plot.py at 2018-10-02 18:23:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.67 Mbit/s  
95th percentile per-packet one-way delay: 44.966 ms  
Loss rate: 1.78%  
-- Flow 1:  
Average throughput: 58.83 Mbit/s  
95th percentile per-packet one-way delay: 37.600 ms  
Loss rate: 1.95%  
-- Flow 2:  
Average throughput: 40.63 Mbit/s  
95th percentile per-packet one-way delay: 53.096 ms  
Loss rate: 1.72%  
-- Flow 3:  
Average throughput: 32.66 Mbit/s  
95th percentile per-packet one-way delay: 37.189 ms  
Loss rate: 1.00%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-10-02 17:26:20

End at: 2018-10-02 17:26:50

Local clock offset: -5.326 ms

Remote clock offset: -0.84 ms

# Below is generated by plot.py at 2018-10-02 18:23:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.60 Mbit/s

95th percentile per-packet one-way delay: 47.910 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 58.78 Mbit/s

95th percentile per-packet one-way delay: 34.826 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 40.56 Mbit/s

95th percentile per-packet one-way delay: 53.658 ms

Loss rate: 1.56%

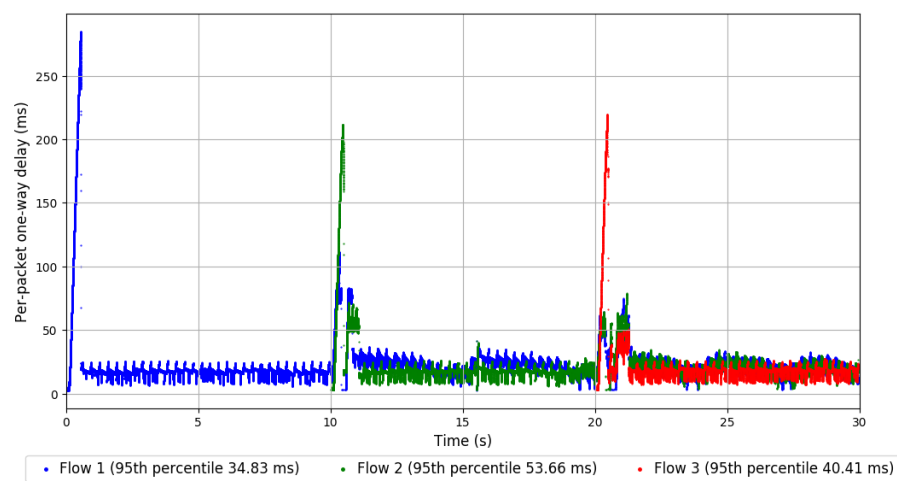
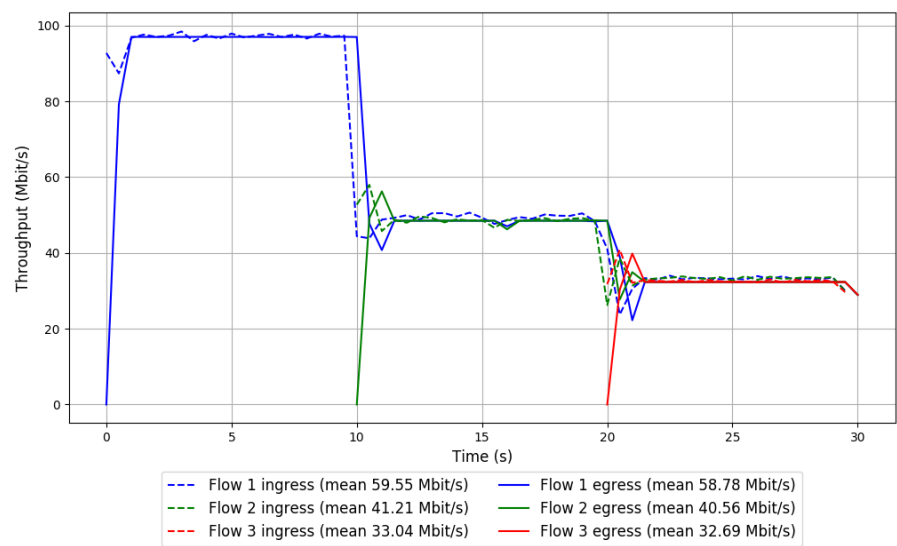
-- Flow 3:

Average throughput: 32.69 Mbit/s

95th percentile per-packet one-way delay: 40.408 ms

Loss rate: 1.09%

Run 3: Report of FillP — Data Link

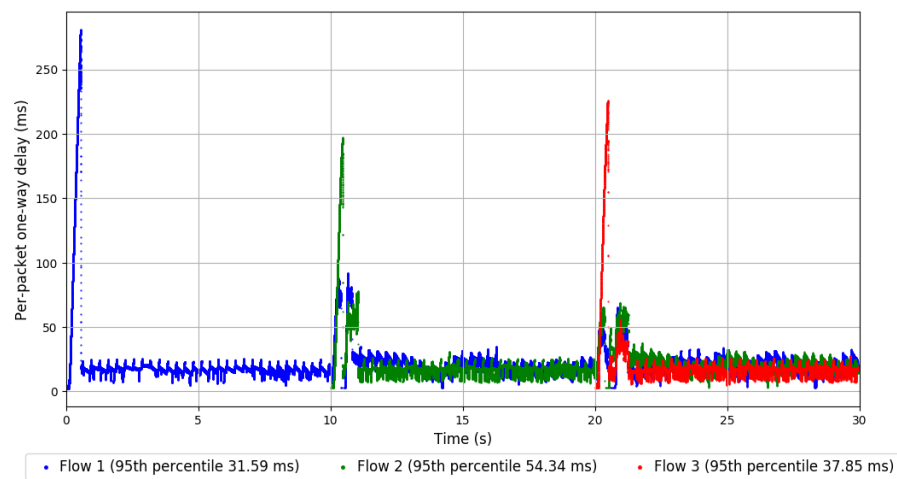
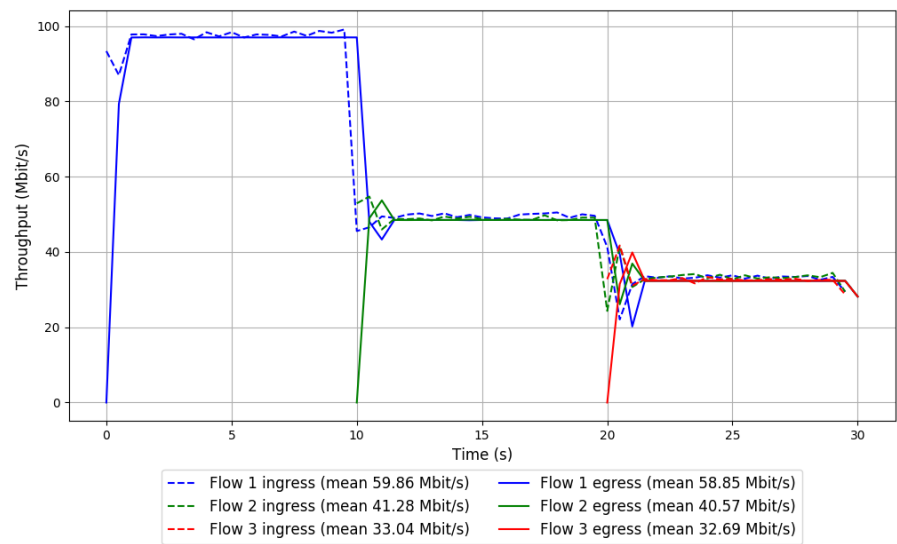


Run 4: Statistics of FillP

Start at: 2018-10-02 17:47:09  
End at: 2018-10-02 17:47:39  
Local clock offset: -6.553 ms  
Remote clock offset: -0.848 ms

# Below is generated by plot.py at 2018-10-02 18:23:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.68 Mbit/s  
95th percentile per-packet one-way delay: 43.917 ms  
Loss rate: 1.64%  
-- Flow 1:  
Average throughput: 58.85 Mbit/s  
95th percentile per-packet one-way delay: 31.590 ms  
Loss rate: 1.70%  
-- Flow 2:  
Average throughput: 40.57 Mbit/s  
95th percentile per-packet one-way delay: 54.336 ms  
Loss rate: 1.74%  
-- Flow 3:  
Average throughput: 32.69 Mbit/s  
95th percentile per-packet one-way delay: 37.855 ms  
Loss rate: 1.10%

Run 4: Report of FillP — Data Link

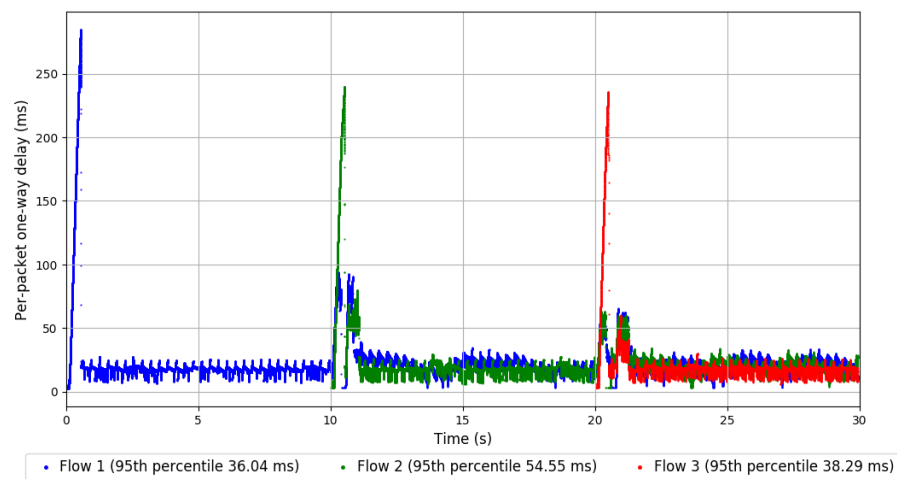
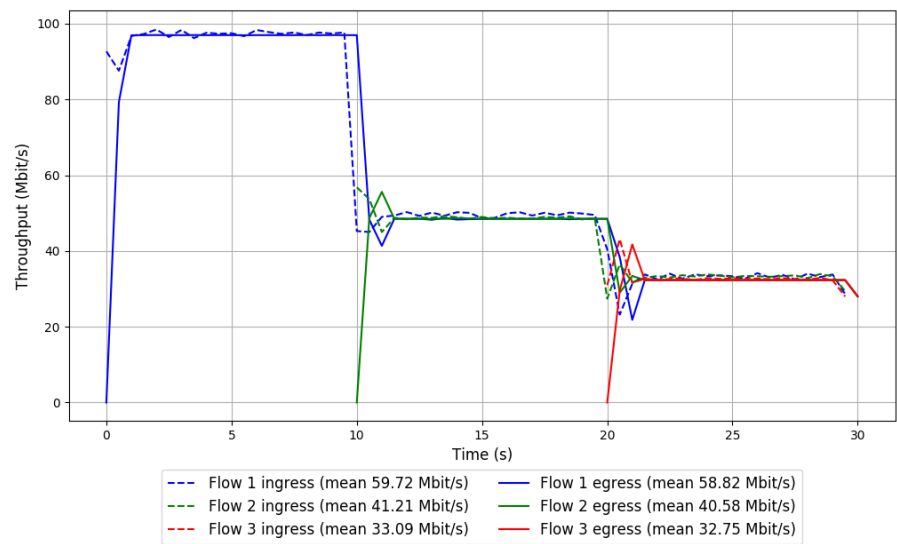


Run 5: Statistics of FillP

Start at: 2018-10-02 18:07:58  
End at: 2018-10-02 18:08:28  
Local clock offset: -2.863 ms  
Remote clock offset: -0.764 ms

# Below is generated by plot.py at 2018-10-02 18:24:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.68 Mbit/s  
95th percentile per-packet one-way delay: 47.547 ms  
Loss rate: 1.46%  
-- Flow 1:  
Average throughput: 58.82 Mbit/s  
95th percentile per-packet one-way delay: 36.043 ms  
Loss rate: 1.50%  
-- Flow 2:  
Average throughput: 40.58 Mbit/s  
95th percentile per-packet one-way delay: 54.551 ms  
Loss rate: 1.55%  
-- Flow 3:  
Average throughput: 32.75 Mbit/s  
95th percentile per-packet one-way delay: 38.287 ms  
Loss rate: 1.02%

Run 5: Report of FillP — Data Link



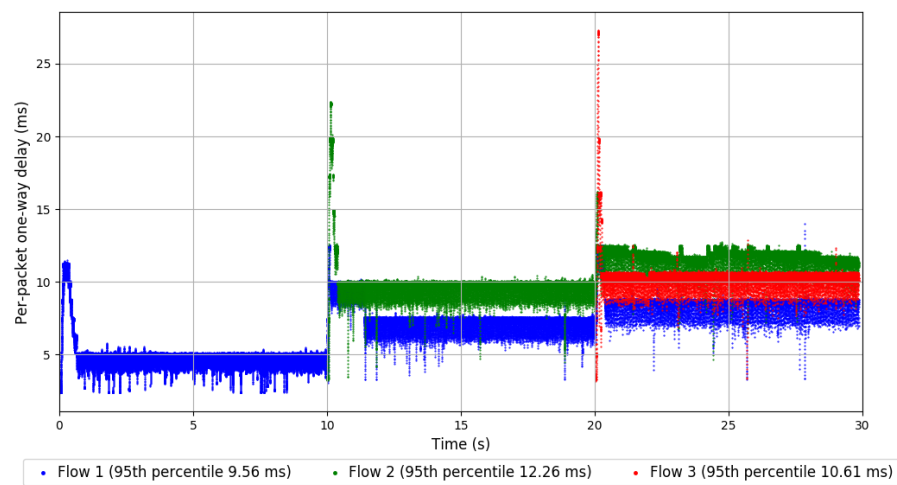
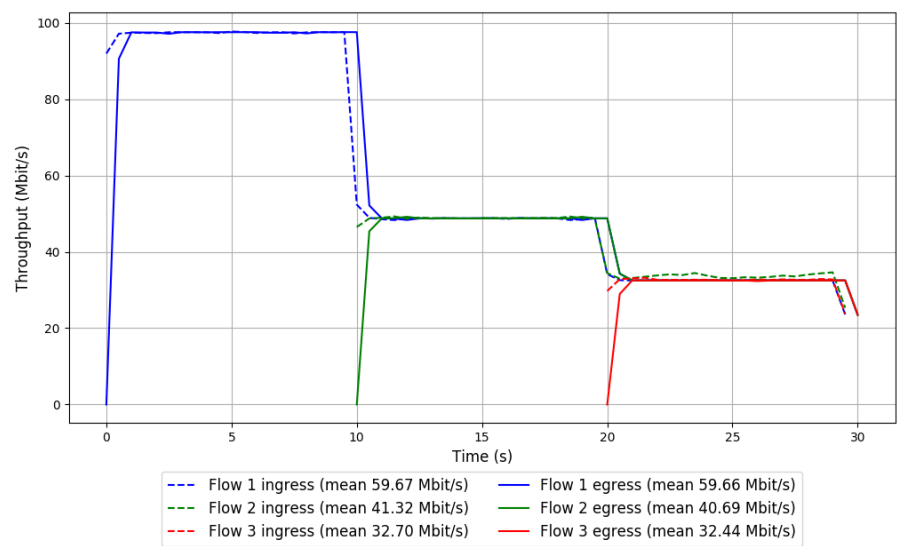


Run 1: Statistics of Indigo

Start at: 2018-10-02 16:49:13  
End at: 2018-10-02 16:49:43  
Local clock offset: -2.307 ms  
Remote clock offset: -1.002 ms

# Below is generated by plot.py at 2018-10-02 18:24:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.39 Mbit/s  
95th percentile per-packet one-way delay: 11.877 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 59.66 Mbit/s  
95th percentile per-packet one-way delay: 9.560 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 40.69 Mbit/s  
95th percentile per-packet one-way delay: 12.257 ms  
Loss rate: 1.53%  
-- Flow 3:  
Average throughput: 32.44 Mbit/s  
95th percentile per-packet one-way delay: 10.611 ms  
Loss rate: 0.84%

Run 1: Report of Indigo — Data Link

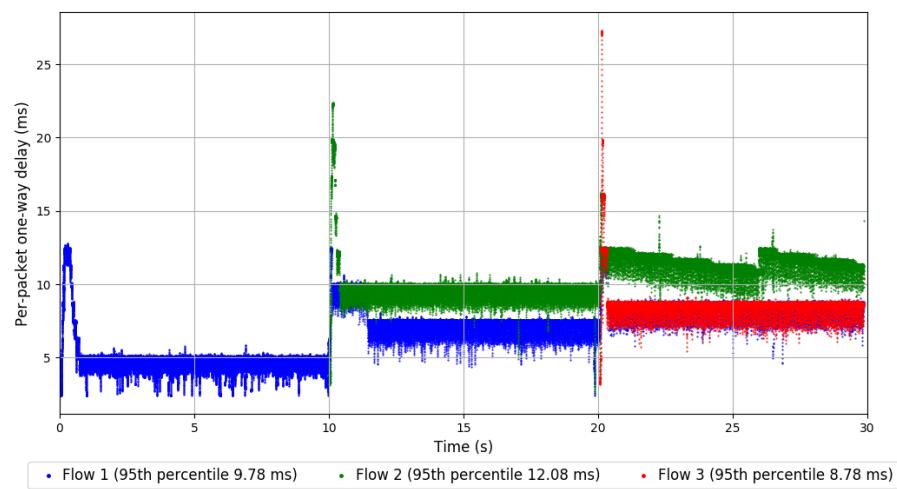
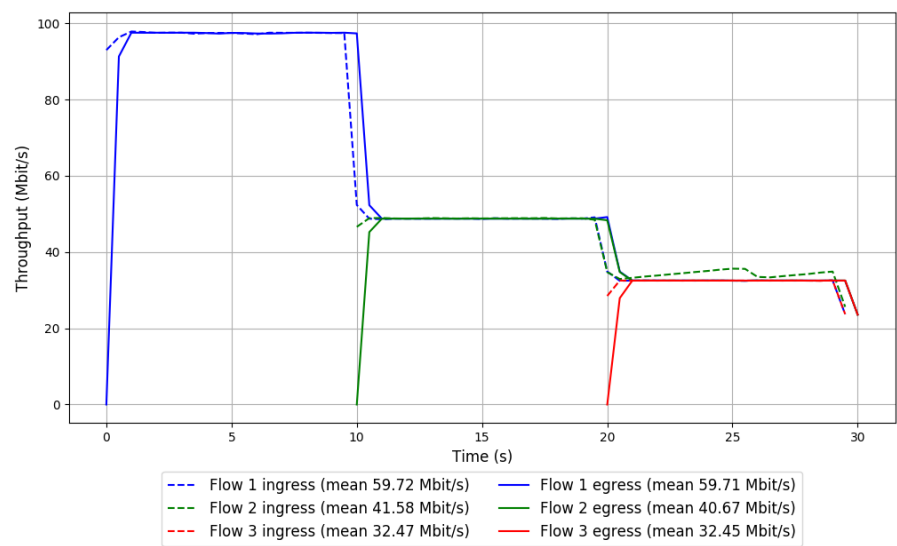


Run 2: Statistics of Indigo

Start at: 2018-10-02 17:10:03  
End at: 2018-10-02 17:10:33  
Local clock offset: -1.59 ms  
Remote clock offset: -0.878 ms

# Below is generated by plot.py at 2018-10-02 18:24:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.40 Mbit/s  
95th percentile per-packet one-way delay: 11.715 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 59.71 Mbit/s  
95th percentile per-packet one-way delay: 9.777 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 40.67 Mbit/s  
95th percentile per-packet one-way delay: 12.076 ms  
Loss rate: 2.23%  
-- Flow 3:  
Average throughput: 32.45 Mbit/s  
95th percentile per-packet one-way delay: 8.781 ms  
Loss rate: 0.11%

Run 2: Report of Indigo — Data Link

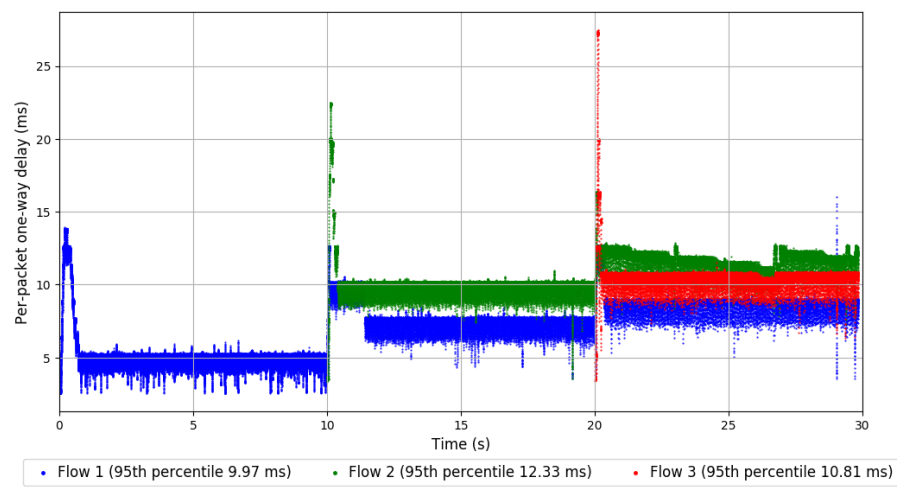
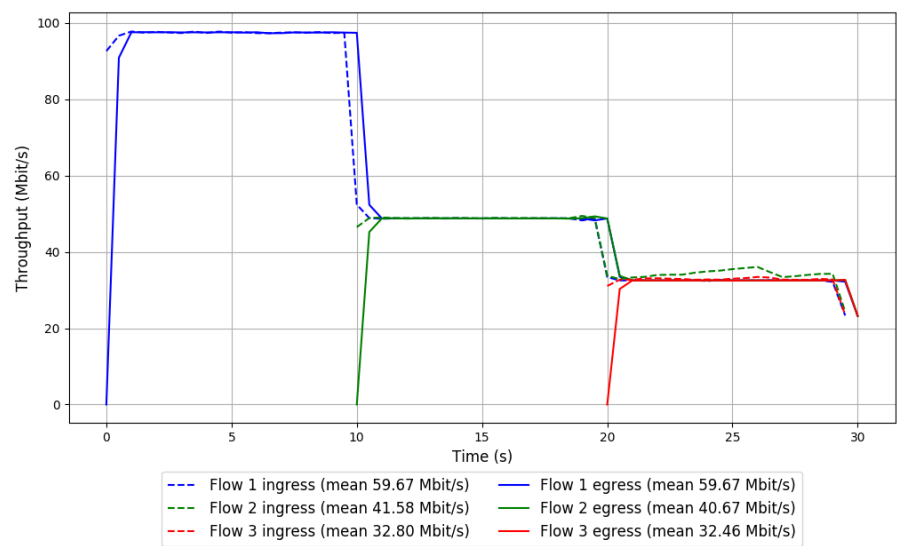


Run 3: Statistics of Indigo

Start at: 2018-10-02 17:30:52  
End at: 2018-10-02 17:31:22  
Local clock offset: -6.133 ms  
Remote clock offset: -0.955 ms

# Below is generated by plot.py at 2018-10-02 18:24:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.40 Mbit/s  
95th percentile per-packet one-way delay: 11.981 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 59.67 Mbit/s  
95th percentile per-packet one-way delay: 9.967 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 40.67 Mbit/s  
95th percentile per-packet one-way delay: 12.329 ms  
Loss rate: 2.20%  
-- Flow 3:  
Average throughput: 32.46 Mbit/s  
95th percentile per-packet one-way delay: 10.812 ms  
Loss rate: 1.22%

Run 3: Report of Indigo — Data Link

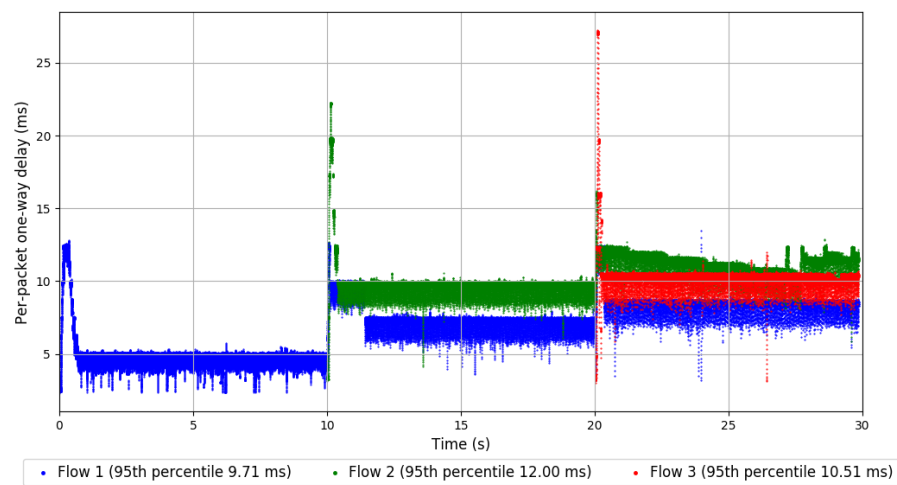
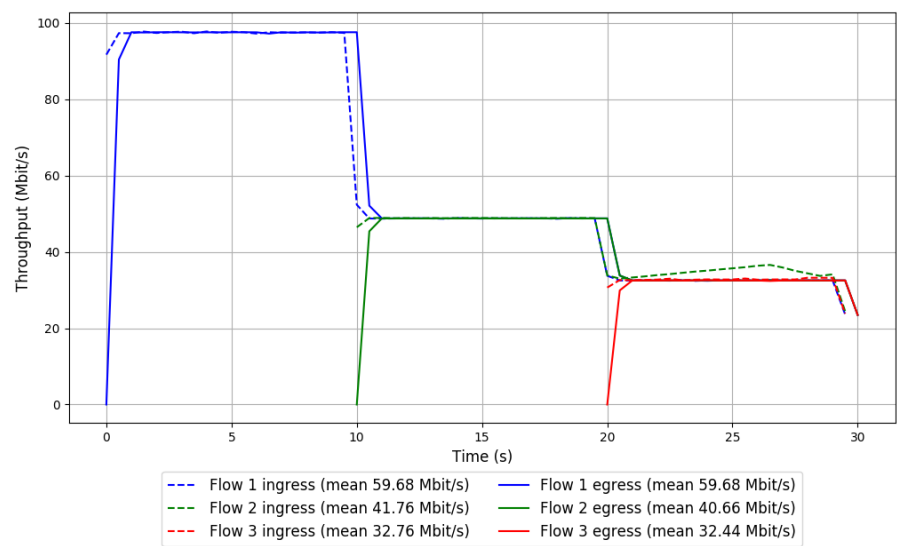


Run 4: Statistics of Indigo

Start at: 2018-10-02 17:51:42  
End at: 2018-10-02 17:52:12  
Local clock offset: -5.005 ms  
Remote clock offset: -0.887 ms

# Below is generated by plot.py at 2018-10-02 18:24:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.40 Mbit/s  
95th percentile per-packet one-way delay: 11.524 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 59.68 Mbit/s  
95th percentile per-packet one-way delay: 9.709 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 40.66 Mbit/s  
95th percentile per-packet one-way delay: 11.999 ms  
Loss rate: 2.64%  
-- Flow 3:  
Average throughput: 32.44 Mbit/s  
95th percentile per-packet one-way delay: 10.514 ms  
Loss rate: 1.05%

Run 4: Report of Indigo — Data Link





Run 5: Statistics of Indigo

Start at: 2018-10-02 18:12:31

End at: 2018-10-02 18:13:01

Local clock offset: -2.618 ms

Remote clock offset: -0.74 ms

# Below is generated by plot.py at 2018-10-02 18:24:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 11.696 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 59.67 Mbit/s

95th percentile per-packet one-way delay: 9.760 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 40.70 Mbit/s

95th percentile per-packet one-way delay: 12.158 ms

Loss rate: 2.08%

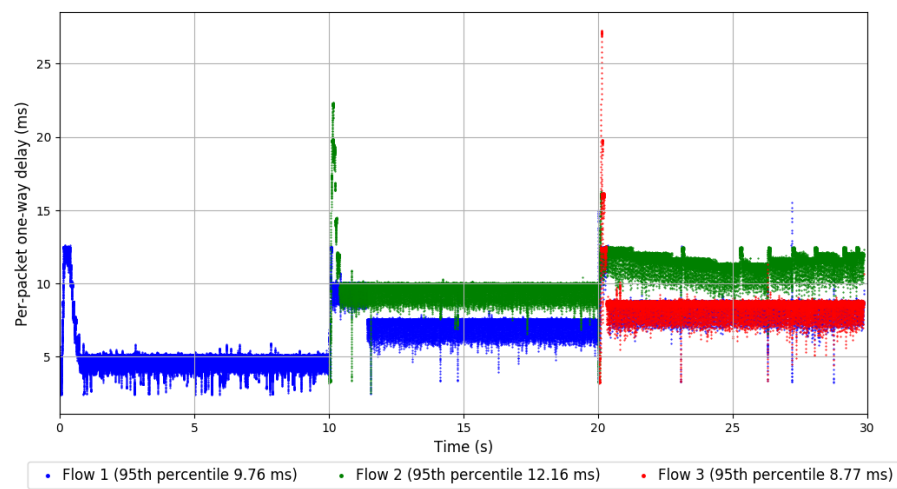
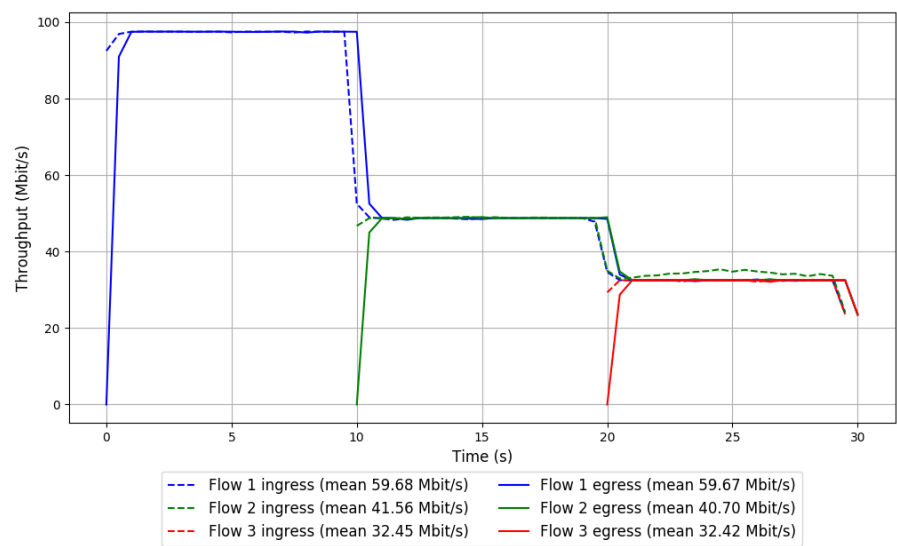
-- Flow 3:

Average throughput: 32.42 Mbit/s

95th percentile per-packet one-way delay: 8.766 ms

Loss rate: 0.11%

Run 5: Report of Indigo — Data Link

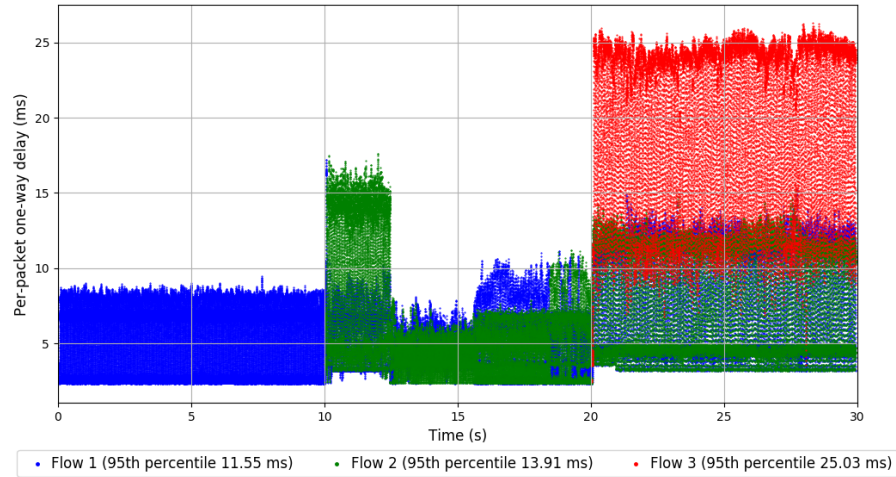
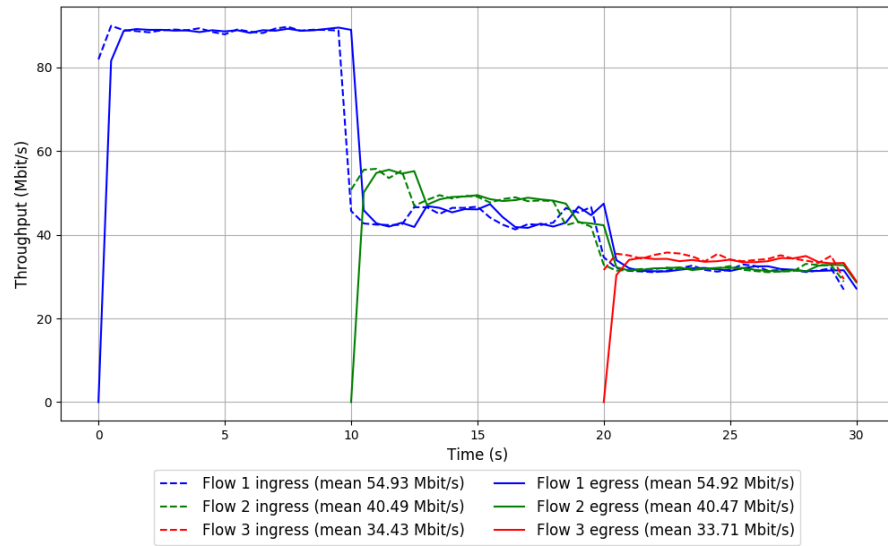


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-10-02 16:48:04  
End at: 2018-10-02 16:48:34  
Local clock offset: -2.399 ms  
Remote clock offset: -0.996 ms

# Below is generated by plot.py at 2018-10-02 18:24:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.02 Mbit/s  
95th percentile per-packet one-way delay: 22.608 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 54.92 Mbit/s  
95th percentile per-packet one-way delay: 11.548 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 40.47 Mbit/s  
95th percentile per-packet one-way delay: 13.908 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 33.71 Mbit/s  
95th percentile per-packet one-way delay: 25.030 ms  
Loss rate: 2.07%

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

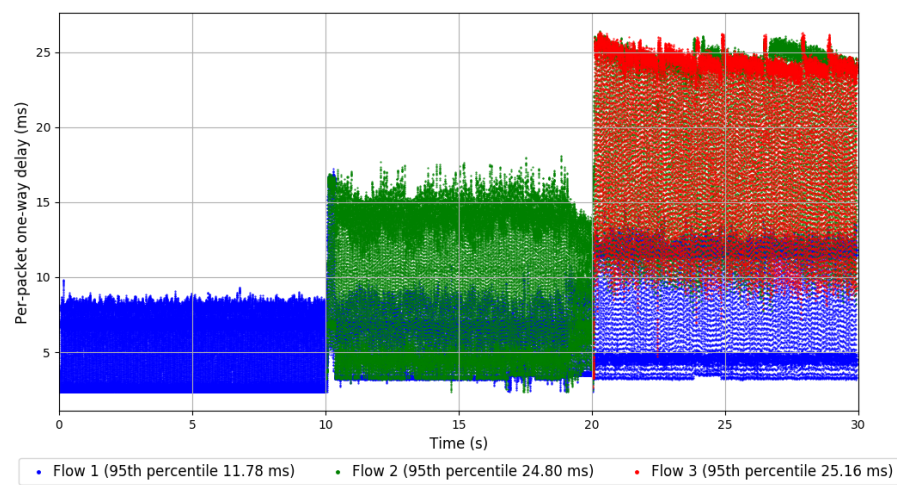
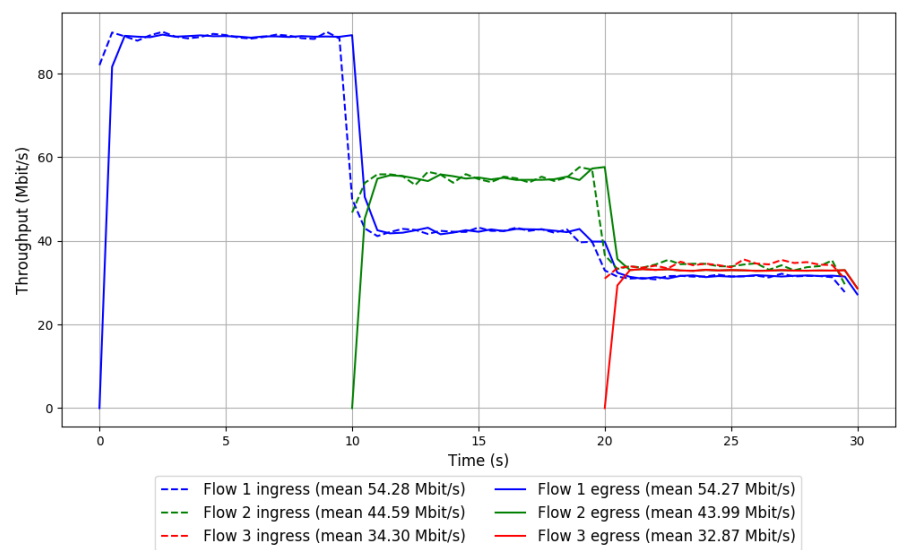


Run 2: Statistics of Indigo-96d2da3

Start at: 2018-10-02 17:08:53  
End at: 2018-10-02 17:09:23  
Local clock offset: -1.64 ms  
Remote clock offset: -0.842 ms

# Below is generated by plot.py at 2018-10-02 18:24:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.44 Mbit/s  
95th percentile per-packet one-way delay: 24.341 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 54.27 Mbit/s  
95th percentile per-packet one-way delay: 11.777 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 43.99 Mbit/s  
95th percentile per-packet one-way delay: 24.798 ms  
Loss rate: 1.31%  
-- Flow 3:  
Average throughput: 32.87 Mbit/s  
95th percentile per-packet one-way delay: 25.160 ms  
Loss rate: 4.21%

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

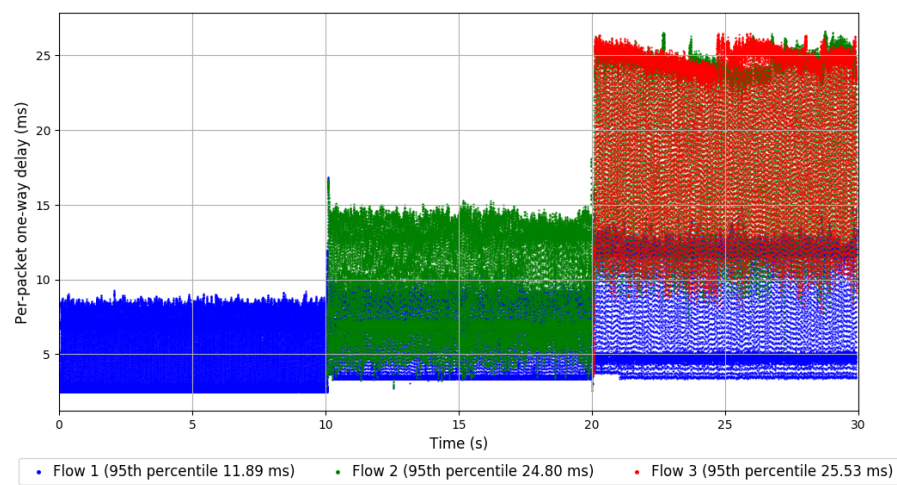
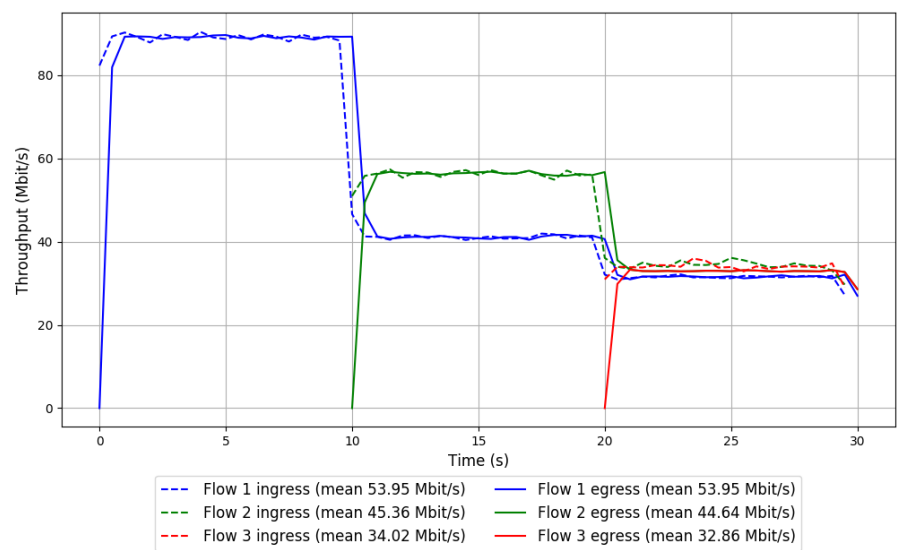


Run 3: Statistics of Indigo-96d2da3

Start at: 2018-10-02 17:29:43  
End at: 2018-10-02 17:30:13  
Local clock offset: -5.91 ms  
Remote clock offset: -0.826 ms

# Below is generated by plot.py at 2018-10-02 18:25:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.53 Mbit/s  
95th percentile per-packet one-way delay: 24.608 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 53.95 Mbit/s  
95th percentile per-packet one-way delay: 11.893 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 44.64 Mbit/s  
95th percentile per-packet one-way delay: 24.804 ms  
Loss rate: 1.62%  
-- Flow 3:  
Average throughput: 32.86 Mbit/s  
95th percentile per-packet one-way delay: 25.531 ms  
Loss rate: 3.35%

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



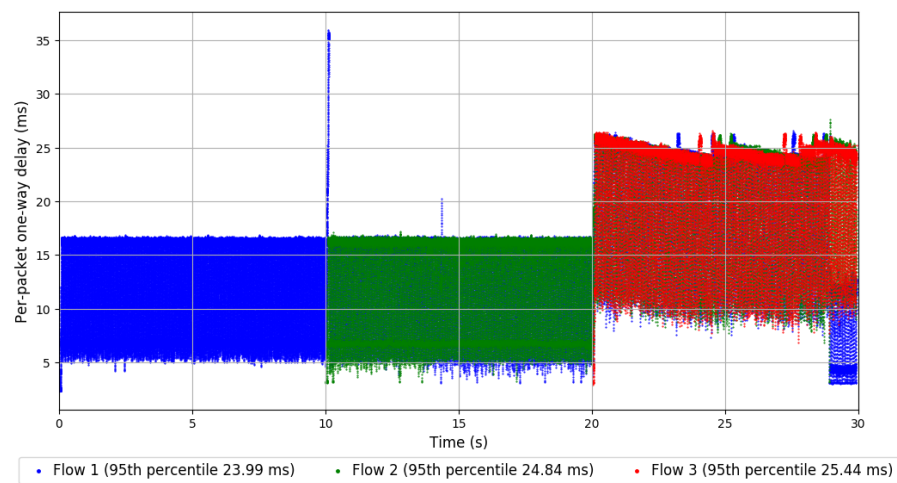
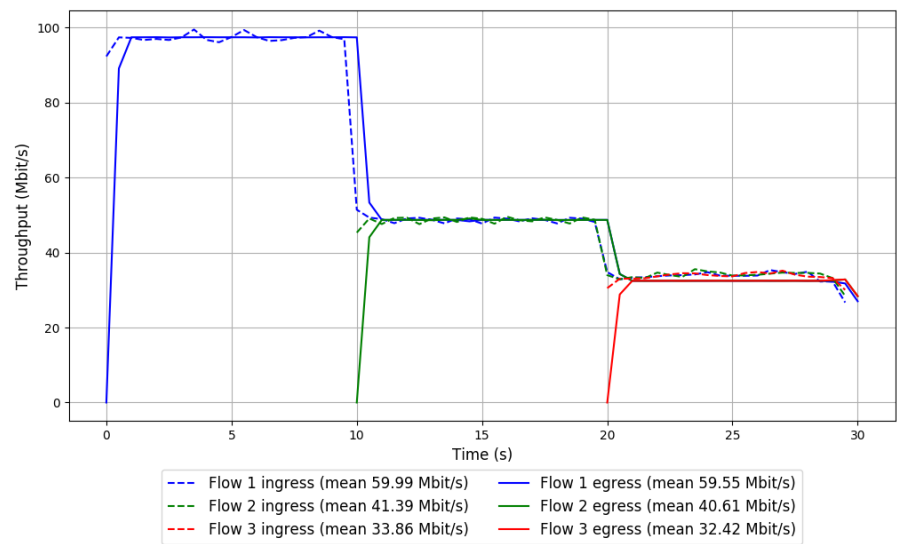


Run 4: Statistics of Indigo-96d2da3

Start at: 2018-10-02 17:50:32  
End at: 2018-10-02 17:51:03  
Local clock offset: -5.339 ms  
Remote clock offset: -0.863 ms

# Below is generated by plot.py at 2018-10-02 18:25:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.31 Mbit/s  
95th percentile per-packet one-way delay: 24.702 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 59.55 Mbit/s  
95th percentile per-packet one-way delay: 23.986 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 40.61 Mbit/s  
95th percentile per-packet one-way delay: 24.843 ms  
Loss rate: 1.87%  
-- Flow 3:  
Average throughput: 32.42 Mbit/s  
95th percentile per-packet one-way delay: 25.437 ms  
Loss rate: 4.31%

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

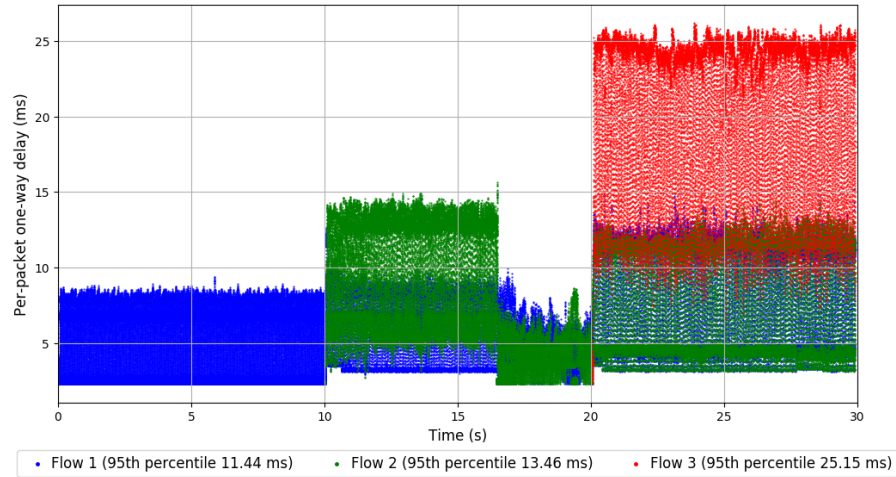
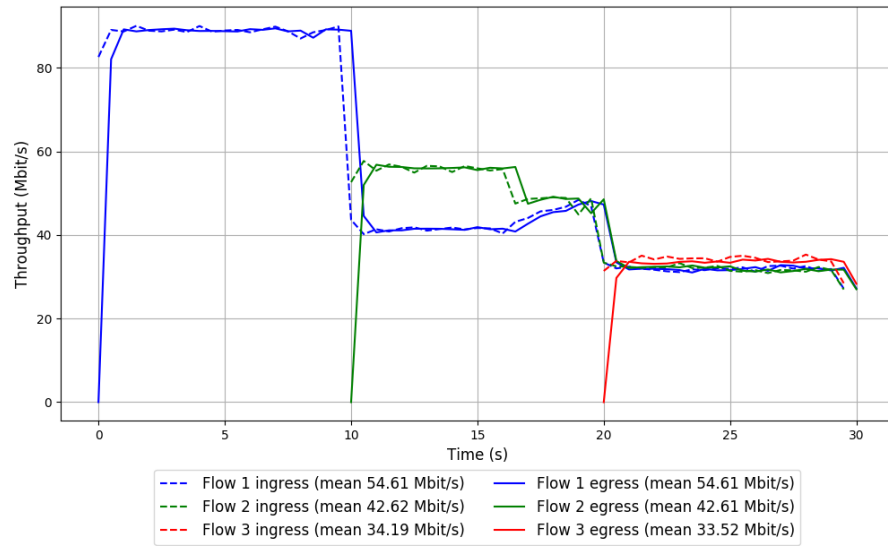


Run 5: Statistics of Indigo-96d2da3

Start at: 2018-10-02 18:11:22  
End at: 2018-10-02 18:11:52  
Local clock offset: -2.681 ms  
Remote clock offset: -0.692 ms

# Below is generated by plot.py at 2018-10-02 18:25:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.05 Mbit/s  
95th percentile per-packet one-way delay: 22.836 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 54.61 Mbit/s  
95th percentile per-packet one-way delay: 11.439 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 42.61 Mbit/s  
95th percentile per-packet one-way delay: 13.457 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 33.52 Mbit/s  
95th percentile per-packet one-way delay: 25.148 ms  
Loss rate: 1.90%

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

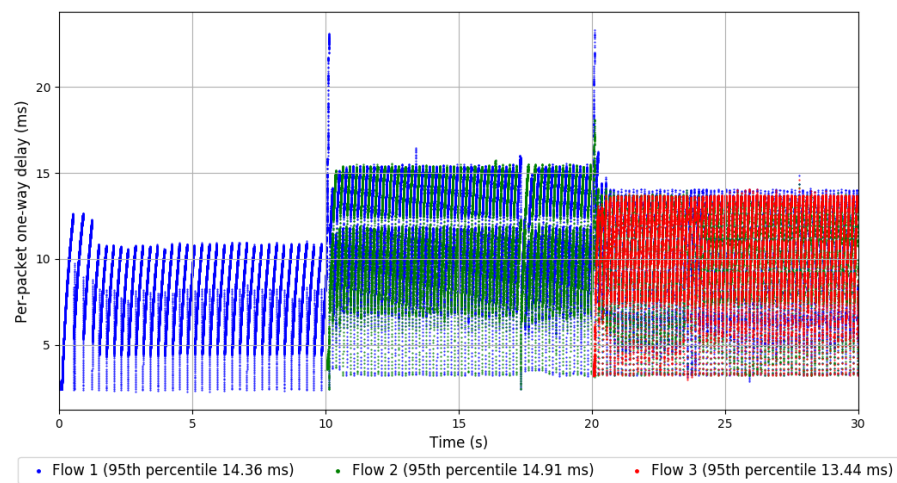
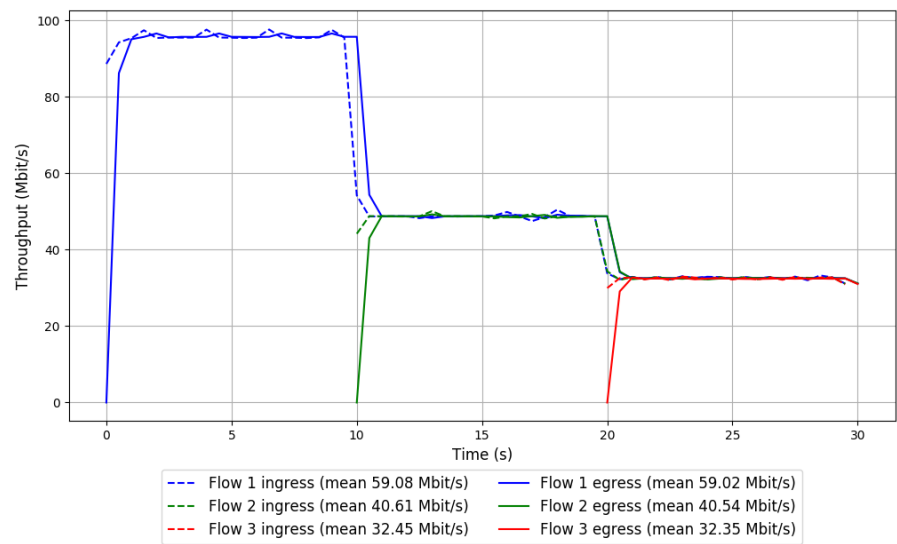


```
Run 1: Statistics of LEDBAT

Start at: 2018-10-02 16:41:09
End at: 2018-10-02 16:41:39
Local clock offset: -2.674 ms
Remote clock offset: -1.0 ms

# Below is generated by plot.py at 2018-10-02 18:25:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 14.579 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 59.02 Mbit/s
95th percentile per-packet one-way delay: 14.360 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 40.54 Mbit/s
95th percentile per-packet one-way delay: 14.913 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 32.35 Mbit/s
95th percentile per-packet one-way delay: 13.438 ms
Loss rate: 0.36%
```

Run 1: Report of LEDBAT — Data Link

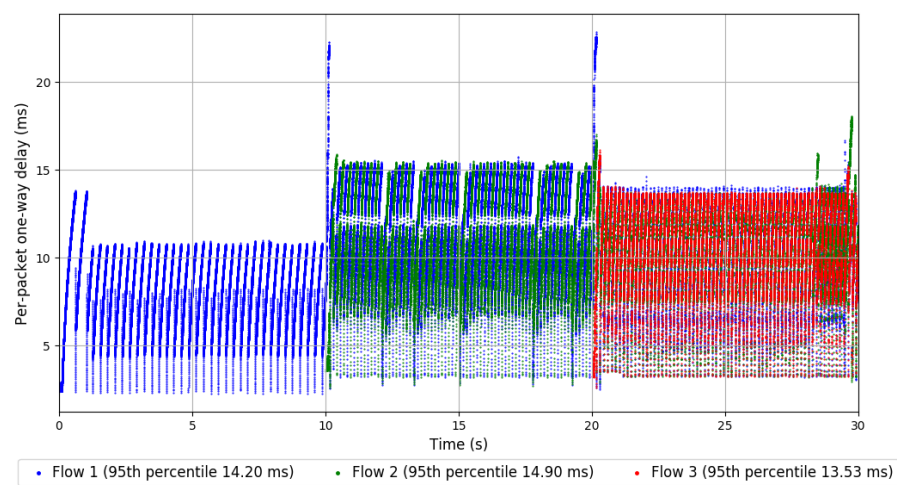
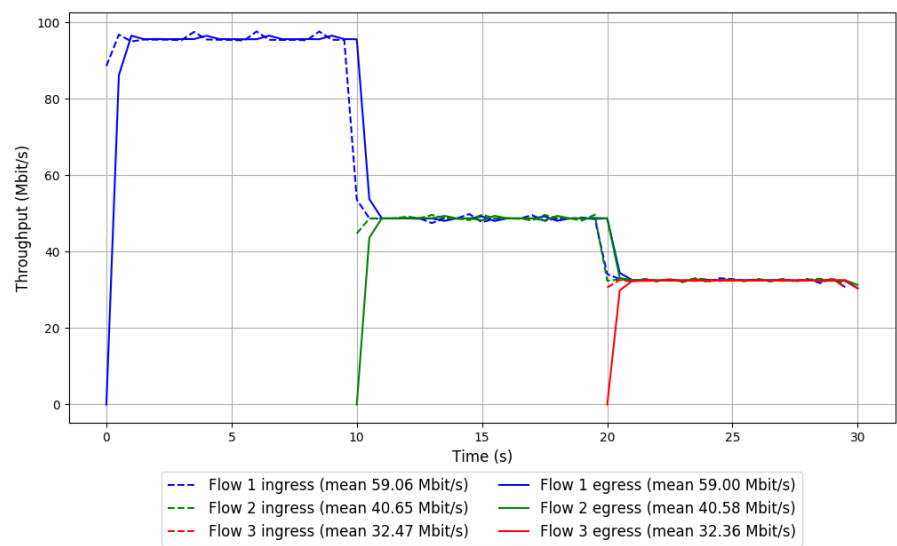


Run 2: Statistics of LEDBAT

Start at: 2018-10-02 17:02:00  
End at: 2018-10-02 17:02:30  
Local clock offset: -1.908 ms  
Remote clock offset: -0.922 ms

# Below is generated by plot.py at 2018-10-02 18:25:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.78 Mbit/s  
95th percentile per-packet one-way delay: 14.482 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 59.00 Mbit/s  
95th percentile per-packet one-way delay: 14.195 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 40.58 Mbit/s  
95th percentile per-packet one-way delay: 14.901 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 32.36 Mbit/s  
95th percentile per-packet one-way delay: 13.526 ms  
Loss rate: 0.38%

Run 2: Report of LEDBAT — Data Link



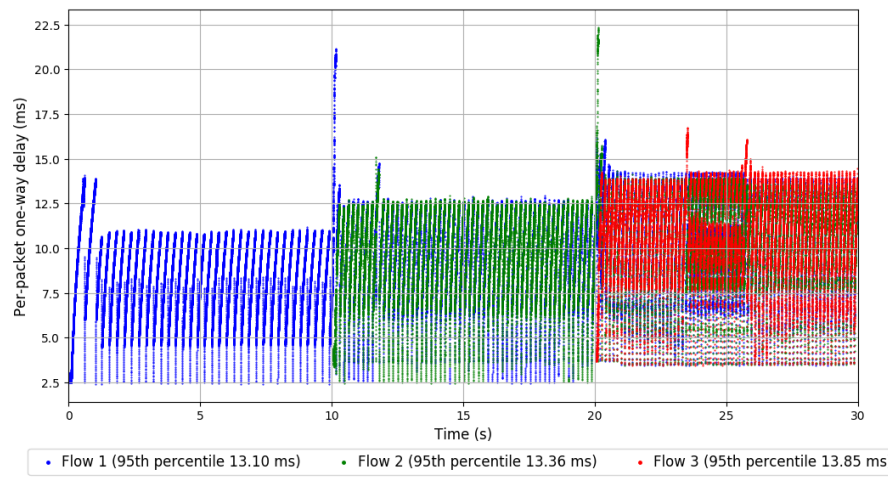
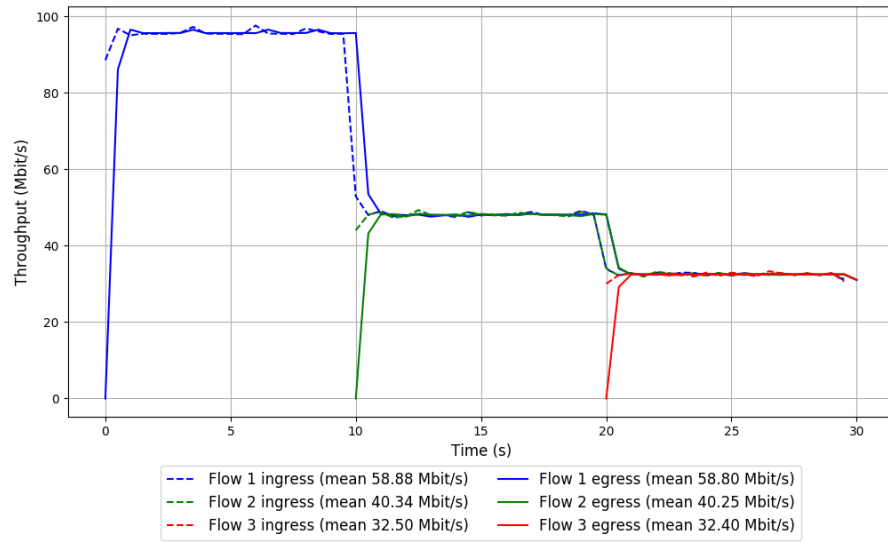


Run 3: Statistics of LEDBAT

Start at: 2018-10-02 17:22:49  
End at: 2018-10-02 17:23:19  
Local clock offset: -4.473 ms  
Remote clock offset: -0.792 ms

# Below is generated by plot.py at 2018-10-02 18:25:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.37 Mbit/s  
95th percentile per-packet one-way delay: 13.407 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 58.80 Mbit/s  
95th percentile per-packet one-way delay: 13.099 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 40.25 Mbit/s  
95th percentile per-packet one-way delay: 13.364 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 32.40 Mbit/s  
95th percentile per-packet one-way delay: 13.854 ms  
Loss rate: 0.29%

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

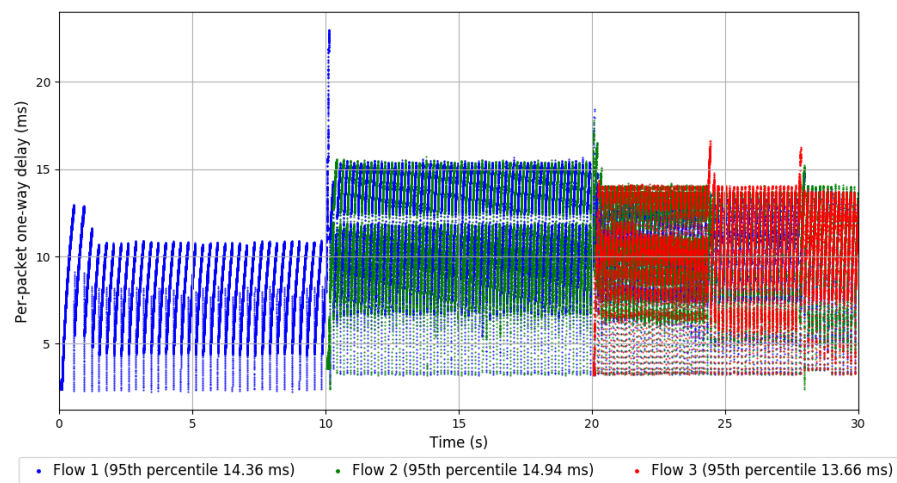
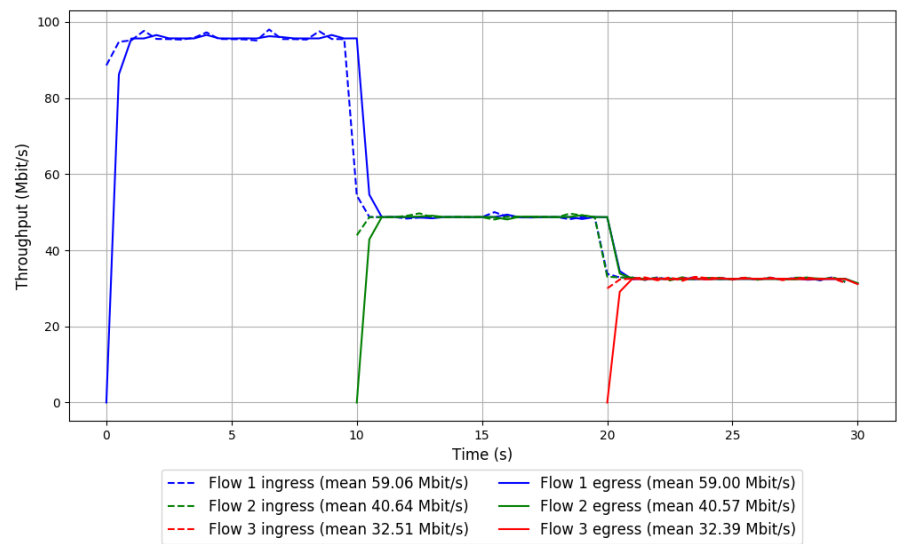


Run 4: Statistics of LEDBAT

Start at: 2018-10-02 17:43:39  
End at: 2018-10-02 17:44:09  
Local clock offset: -7.182 ms  
Remote clock offset: -0.805 ms

# Below is generated by plot.py at 2018-10-02 18:25:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.77 Mbit/s  
95th percentile per-packet one-way delay: 14.618 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 59.00 Mbit/s  
95th percentile per-packet one-way delay: 14.358 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 40.57 Mbit/s  
95th percentile per-packet one-way delay: 14.940 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 32.39 Mbit/s  
95th percentile per-packet one-way delay: 13.665 ms  
Loss rate: 0.39%

Run 4: Report of LEDBAT — Data Link

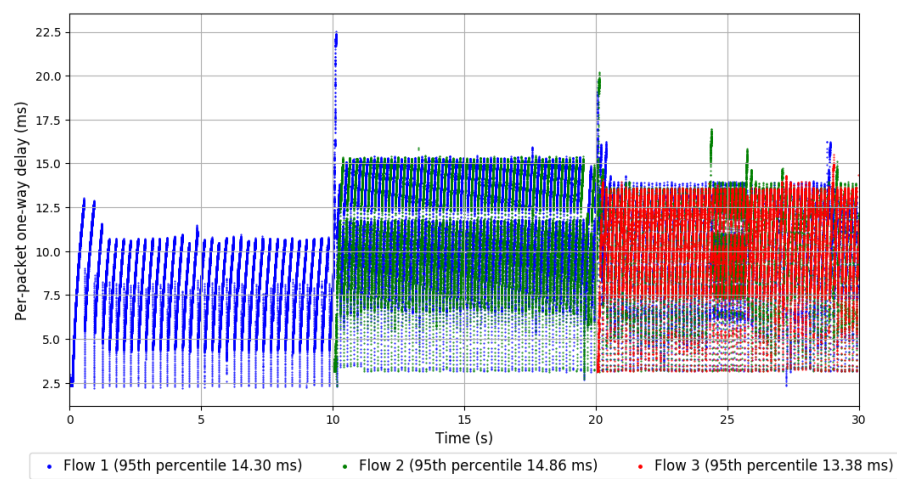
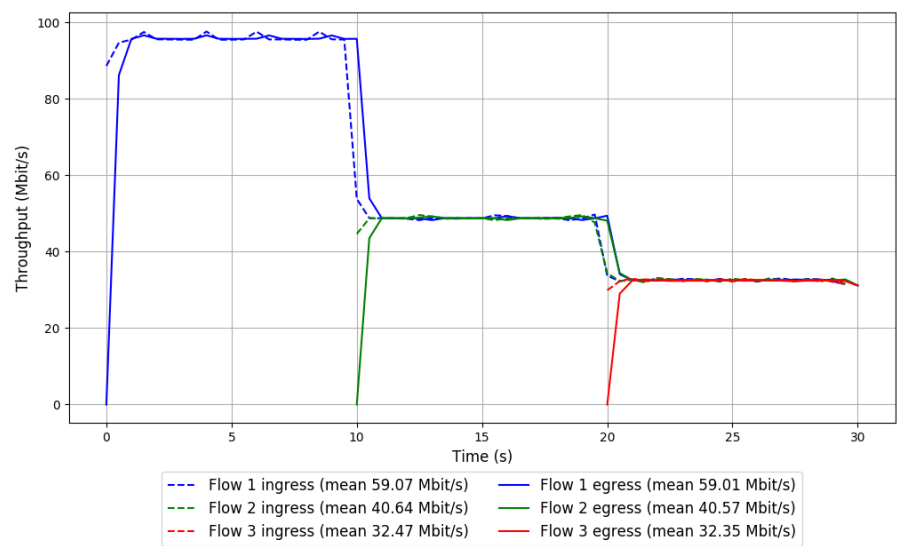


Run 5: Statistics of LEDBAT

Start at: 2018-10-02 18:04:28  
End at: 2018-10-02 18:04:58  
Local clock offset: -3.134 ms  
Remote clock offset: -0.728 ms

# Below is generated by plot.py at 2018-10-02 18:25:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.76 Mbit/s  
95th percentile per-packet one-way delay: 14.527 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 59.01 Mbit/s  
95th percentile per-packet one-way delay: 14.300 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 40.57 Mbit/s  
95th percentile per-packet one-way delay: 14.857 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 32.35 Mbit/s  
95th percentile per-packet one-way delay: 13.377 ms  
Loss rate: 0.39%

Run 5: Report of LEDBAT — Data Link

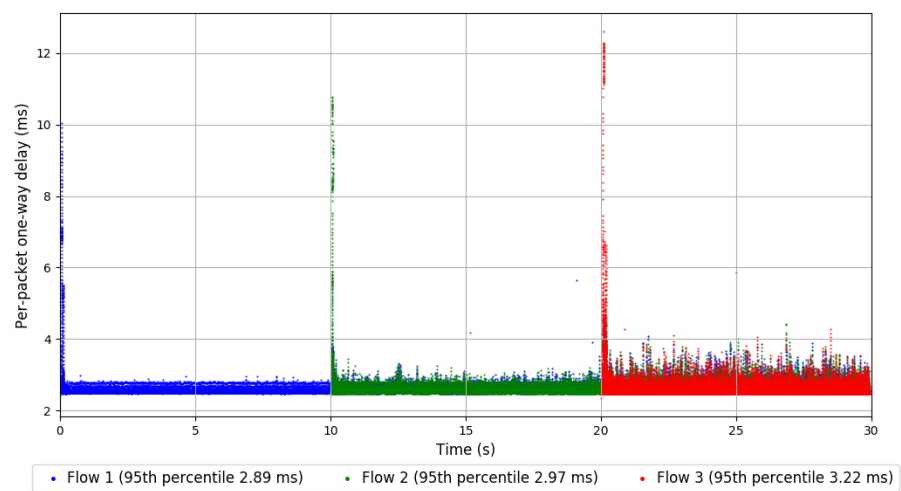
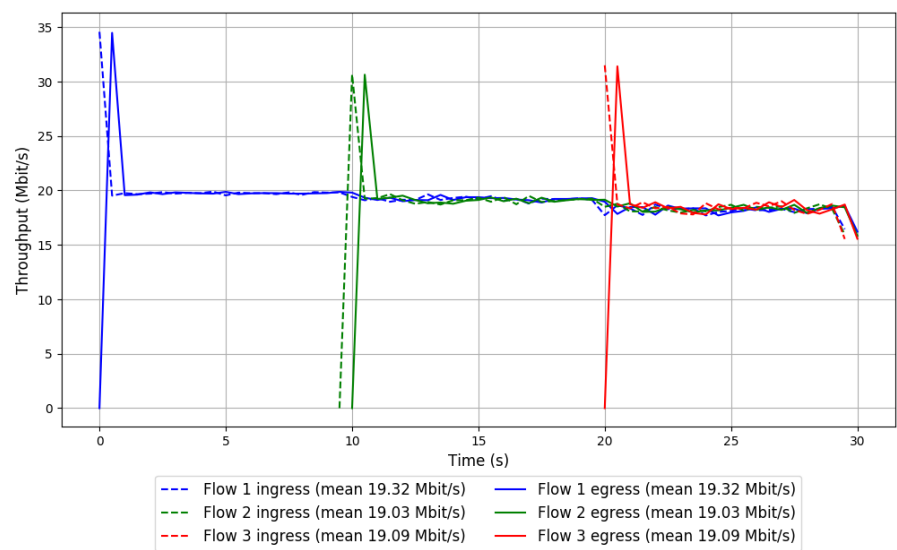


Run 1: Statistics of Indigo-Muses

Start at: 2018-10-02 16:45:49  
End at: 2018-10-02 16:46:19  
Local clock offset: -2.384 ms  
Remote clock offset: -1.075 ms

# Below is generated by plot.py at 2018-10-02 18:25:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 38.32 Mbit/s  
95th percentile per-packet one-way delay: 2.973 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 19.32 Mbit/s  
95th percentile per-packet one-way delay: 2.886 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 19.03 Mbit/s  
95th percentile per-packet one-way delay: 2.974 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 19.09 Mbit/s  
95th percentile per-packet one-way delay: 3.221 ms  
Loss rate: 0.02%

Run 1: Report of Indigo-Muses — Data Link



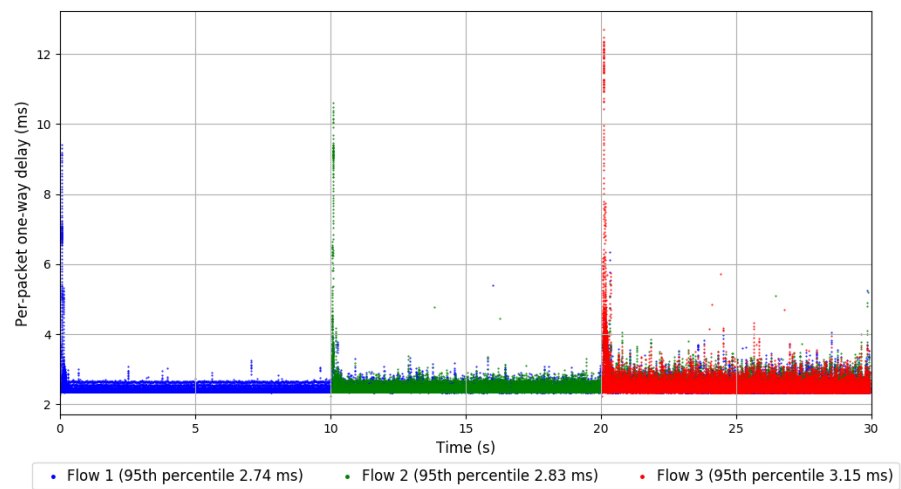
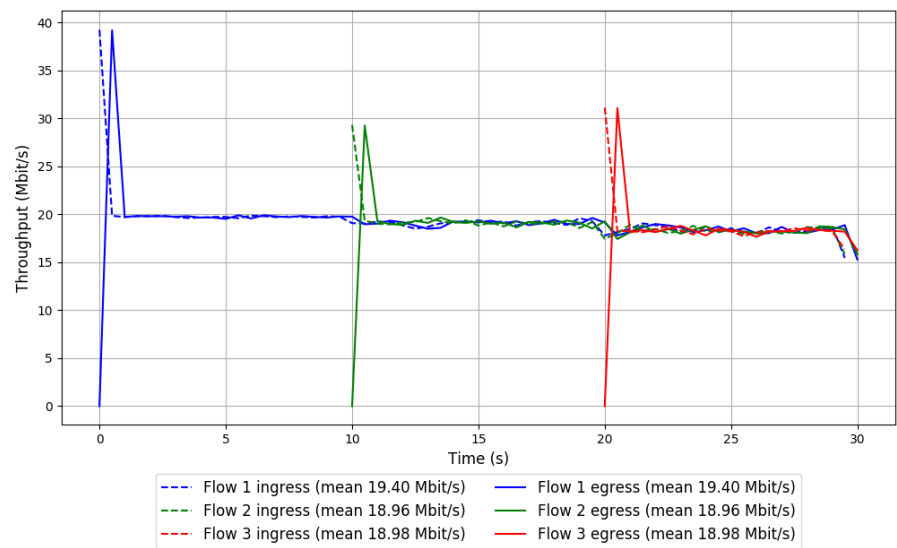


Run 2: Statistics of Indigo-Muses

Start at: 2018-10-02 17:06:39  
End at: 2018-10-02 17:07:09  
Local clock offset: -1.715 ms  
Remote clock offset: -0.832 ms

# Below is generated by plot.py at 2018-10-02 18:25:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 38.30 Mbit/s  
95th percentile per-packet one-way delay: 2.838 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 19.40 Mbit/s  
95th percentile per-packet one-way delay: 2.741 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 18.96 Mbit/s  
95th percentile per-packet one-way delay: 2.833 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 18.98 Mbit/s  
95th percentile per-packet one-way delay: 3.146 ms  
Loss rate: 0.06%

Run 2: Report of Indigo-Muses — Data Link

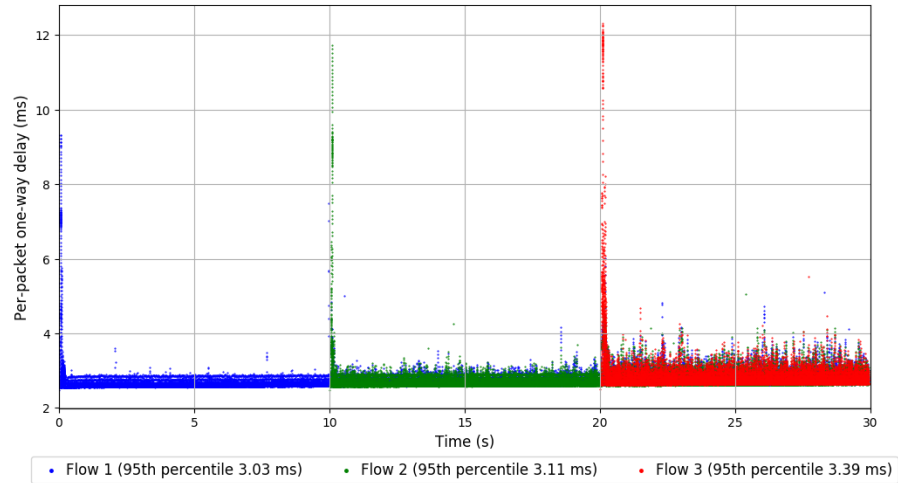
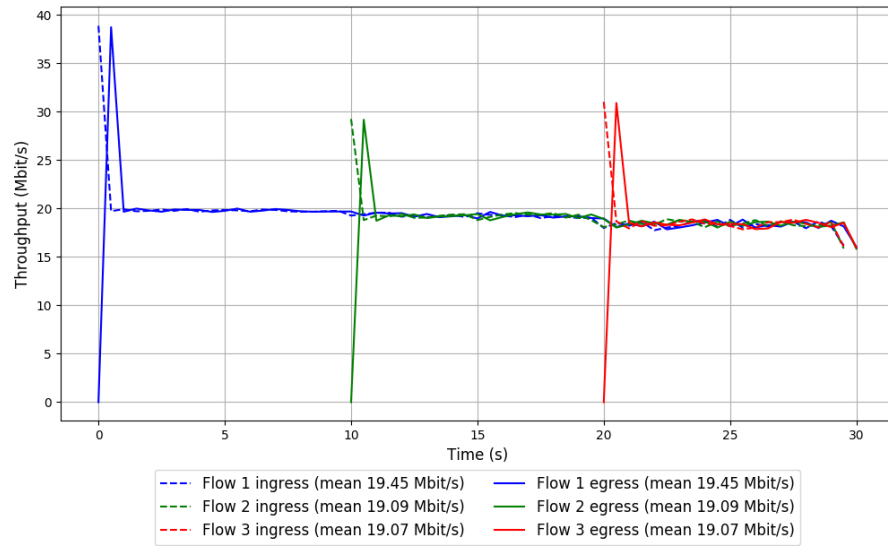


Run 3: Statistics of Indigo-Muses

Start at: 2018-10-02 17:27:28  
End at: 2018-10-02 17:27:58  
Local clock offset: -5.544 ms  
Remote clock offset: -0.889 ms

# Below is generated by plot.py at 2018-10-02 18:25:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 38.47 Mbit/s  
95th percentile per-packet one-way delay: 3.119 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 19.45 Mbit/s  
95th percentile per-packet one-way delay: 3.027 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 19.09 Mbit/s  
95th percentile per-packet one-way delay: 3.106 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 19.07 Mbit/s  
95th percentile per-packet one-way delay: 3.394 ms  
Loss rate: 0.06%

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

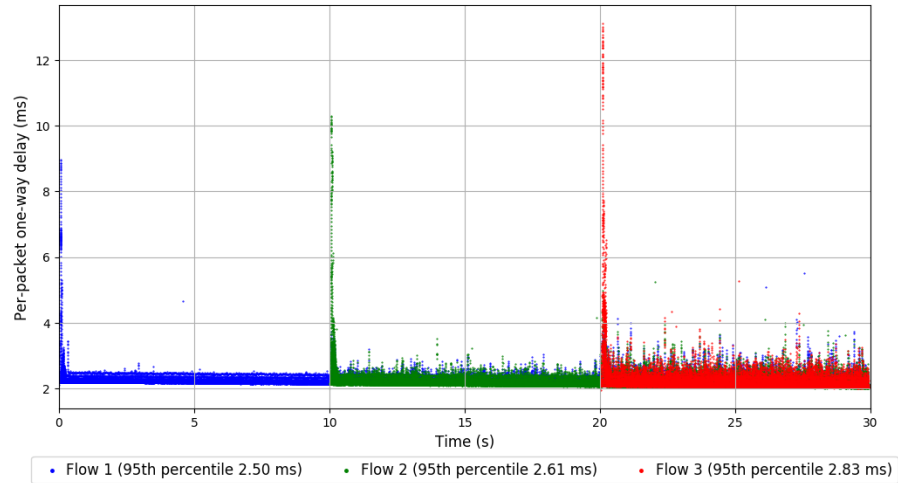
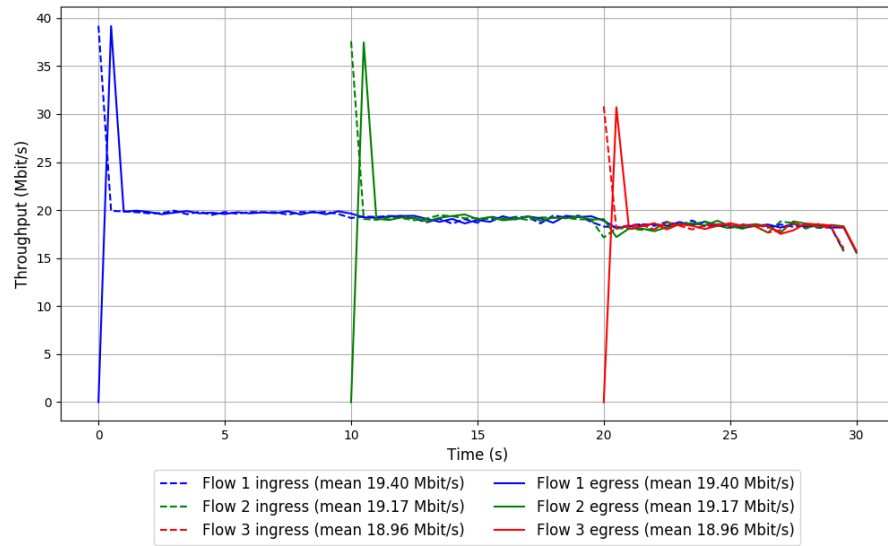


Run 4: Statistics of Indigo-Muses

Start at: 2018-10-02 17:48:18  
End at: 2018-10-02 17:48:48  
Local clock offset: -6.131 ms  
Remote clock offset: -0.777 ms

# Below is generated by plot.py at 2018-10-02 18:26:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 38.44 Mbit/s  
95th percentile per-packet one-way delay: 2.587 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 19.40 Mbit/s  
95th percentile per-packet one-way delay: 2.497 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 19.17 Mbit/s  
95th percentile per-packet one-way delay: 2.608 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 18.96 Mbit/s  
95th percentile per-packet one-way delay: 2.832 ms  
Loss rate: 0.06%

#### Run 4: Report of Indigo-Muses — Data Link



Run 5: Statistics of Indigo-Muses

Start at: 2018-10-02 18:09:07

End at: 2018-10-02 18:09:37

Local clock offset: -2.856 ms

Remote clock offset: -0.69 ms

# Below is generated by plot.py at 2018-10-02 18:26:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 38.41 Mbit/s

95th percentile per-packet one-way delay: 2.755 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 19.45 Mbit/s

95th percentile per-packet one-way delay: 2.662 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.08 Mbit/s

95th percentile per-packet one-way delay: 2.755 ms

Loss rate: 0.03%

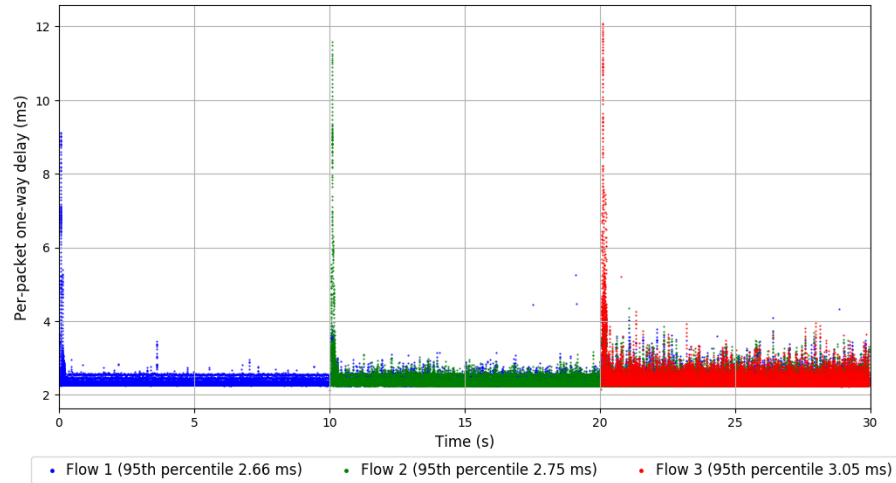
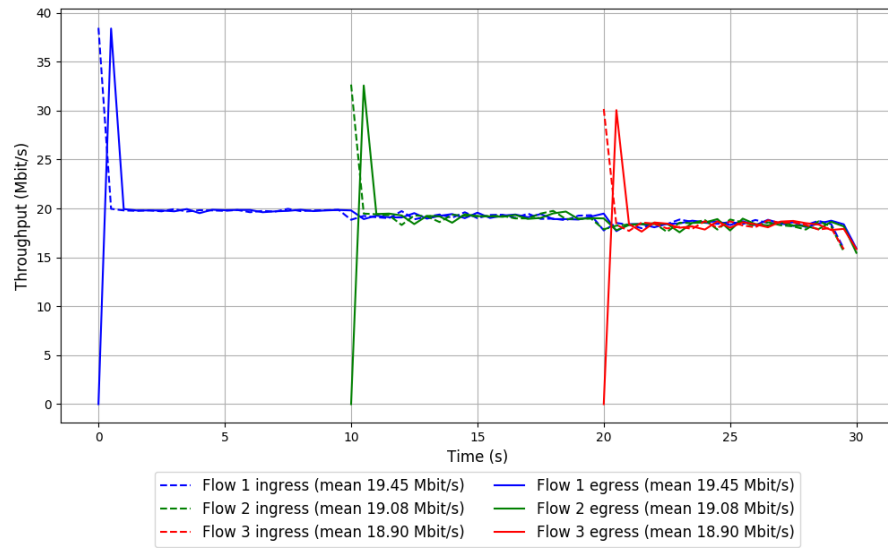
-- Flow 3:

Average throughput: 18.90 Mbit/s

95th percentile per-packet one-way delay: 3.049 ms

Loss rate: 0.04%

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



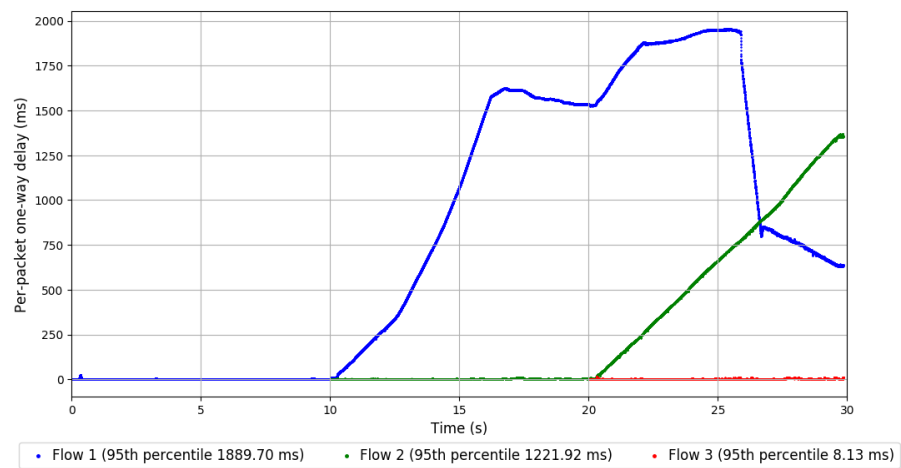
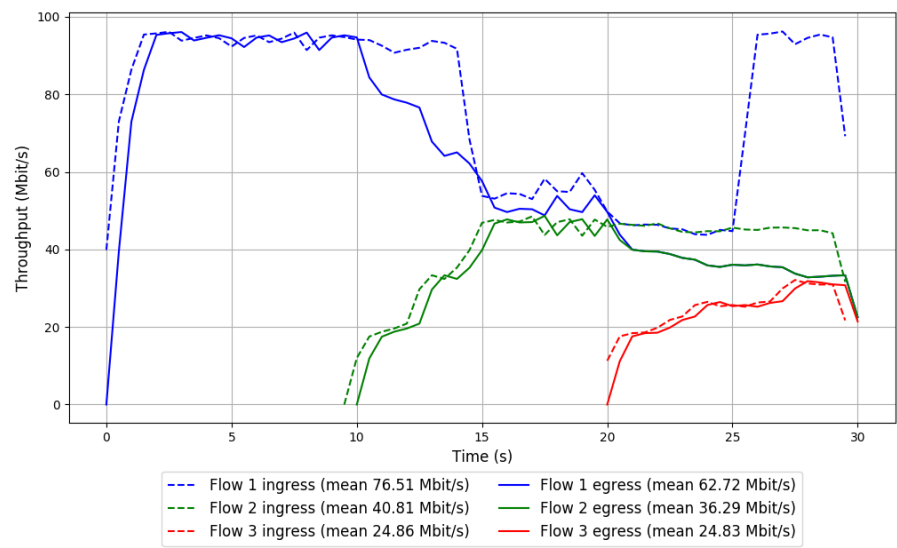


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-10-02 16:50:23
End at: 2018-10-02 16:50:53
Local clock offset: -2.285 ms
Remote clock offset: -1.03 ms

# Below is generated by plot.py at 2018-10-02 18:26:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.02 Mbit/s
95th percentile per-packet one-way delay: 1858.877 ms
Loss rate: 15.05%
-- Flow 1:
Average throughput: 62.72 Mbit/s
95th percentile per-packet one-way delay: 1889.699 ms
Loss rate: 18.04%
-- Flow 2:
Average throughput: 36.29 Mbit/s
95th percentile per-packet one-way delay: 1221.921 ms
Loss rate: 11.08%
-- Flow 3:
Average throughput: 24.83 Mbit/s
95th percentile per-packet one-way delay: 8.134 ms
Loss rate: 0.14%
```

Run 1: Report of PCC-Allegro — Data Link

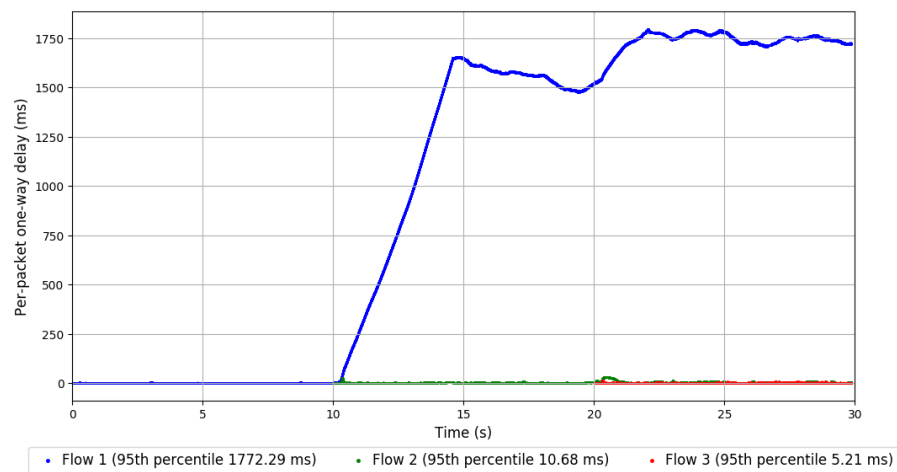
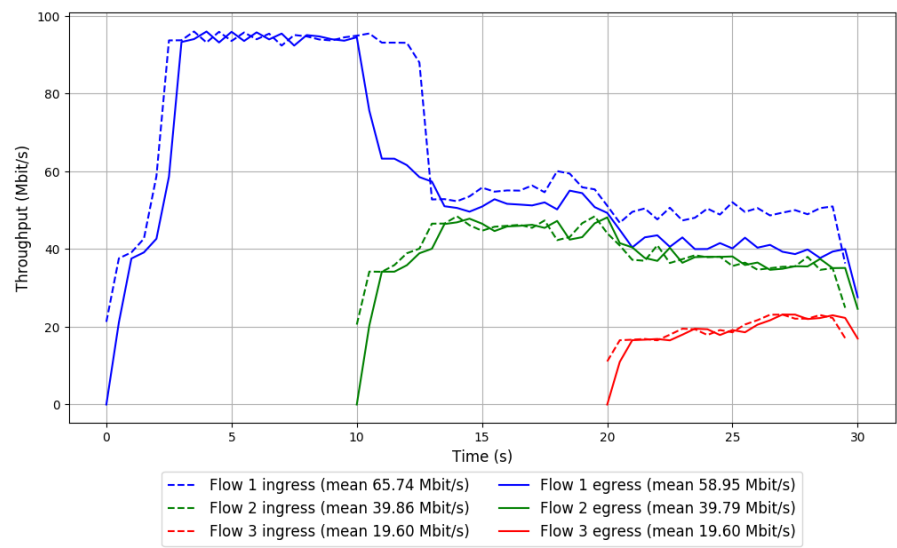


Run 2: Statistics of PCC-Allegro

Start at: 2018-10-02 17:11:13  
End at: 2018-10-02 17:11:43  
Local clock offset: -1.563 ms  
Remote clock offset: -0.828 ms

# Below is generated by plot.py at 2018-10-02 18:26:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.83 Mbit/s  
95th percentile per-packet one-way delay: 1757.572 ms  
Loss rate: 6.94%  
-- Flow 1:  
Average throughput: 58.95 Mbit/s  
95th percentile per-packet one-way delay: 1772.288 ms  
Loss rate: 10.32%  
-- Flow 2:  
Average throughput: 39.79 Mbit/s  
95th percentile per-packet one-way delay: 10.682 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 19.60 Mbit/s  
95th percentile per-packet one-way delay: 5.211 ms  
Loss rate: 0.06%

Run 2: Report of PCC-Allegro — Data Link

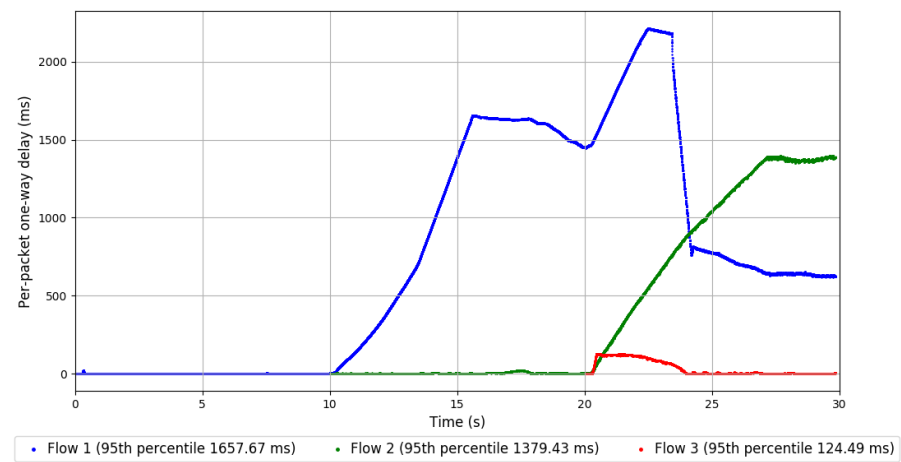
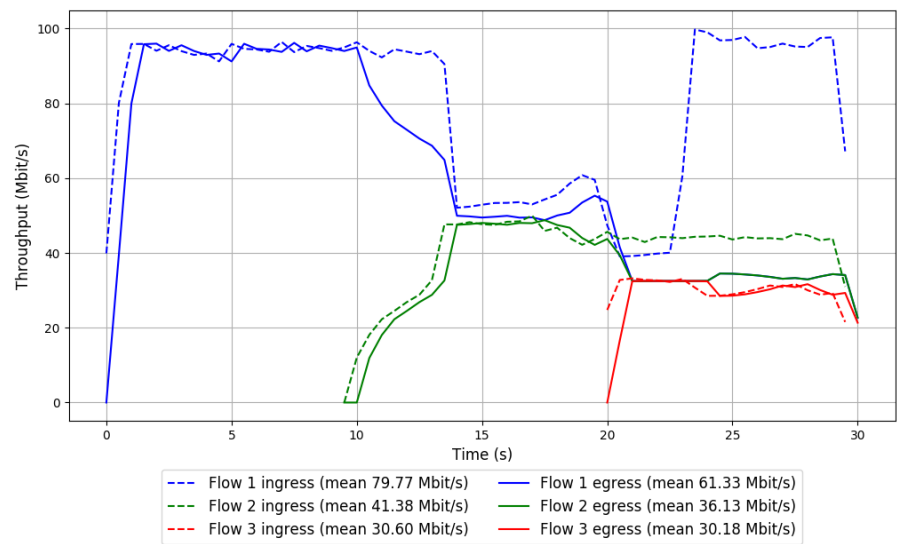


Run 3: Statistics of PCC-Allegro

Start at: 2018-10-02 17:32:02  
End at: 2018-10-02 17:32:32  
Local clock offset: -6.238 ms  
Remote clock offset: -0.793 ms

# Below is generated by plot.py at 2018-10-02 18:26:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.29 Mbit/s  
95th percentile per-packet one-way delay: 1636.043 ms  
Loss rate: 18.83%  
-- Flow 1:  
Average throughput: 61.33 Mbit/s  
95th percentile per-packet one-way delay: 1657.670 ms  
Loss rate: 23.15%  
-- Flow 2:  
Average throughput: 36.13 Mbit/s  
95th percentile per-packet one-way delay: 1379.435 ms  
Loss rate: 12.68%  
-- Flow 3:  
Average throughput: 30.18 Mbit/s  
95th percentile per-packet one-way delay: 124.486 ms  
Loss rate: 1.41%

Run 3: Report of PCC-Allegro — Data Link

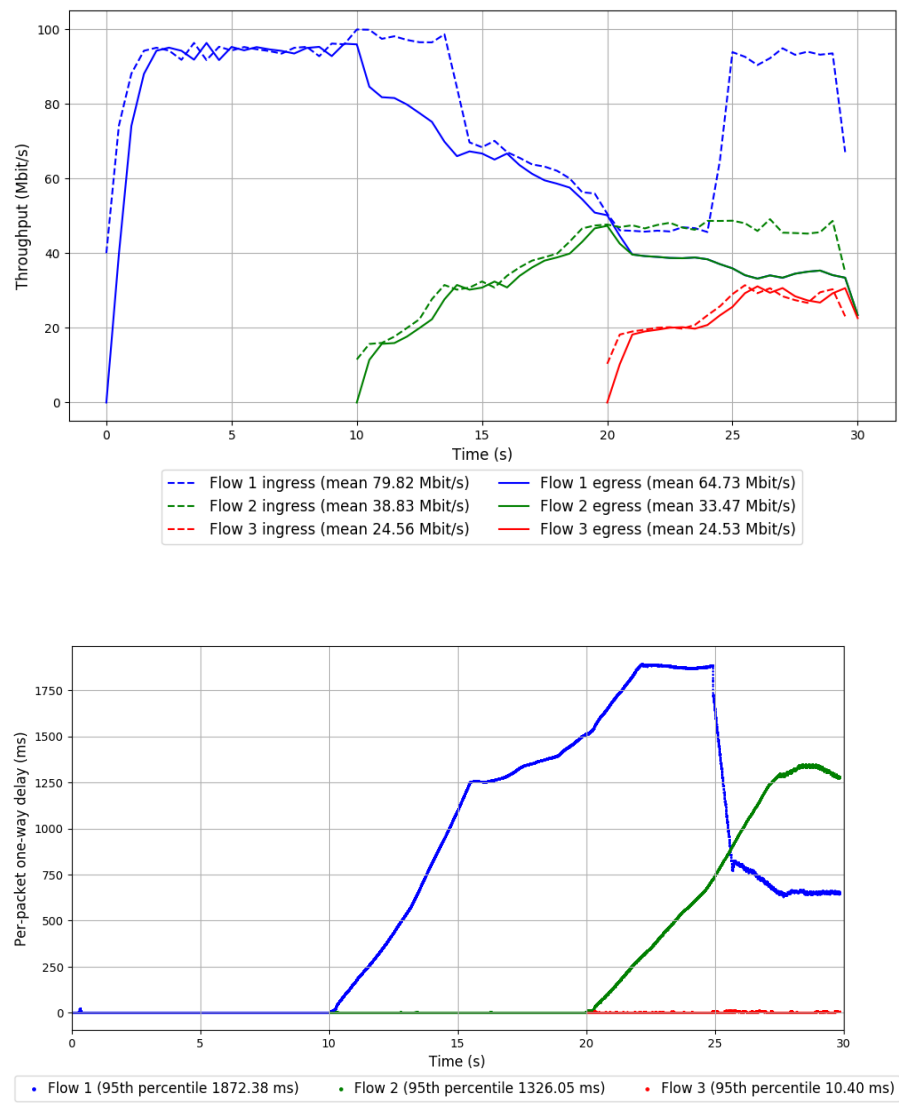


Run 4: Statistics of PCC-Allegro

Start at: 2018-10-02 17:52:52  
End at: 2018-10-02 17:53:22  
Local clock offset: -4.725 ms  
Remote clock offset: -0.767 ms

```
# Below is generated by plot.py at 2018-10-02 18:27:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.05 Mbit/s
95th percentile per-packet one-way delay: 1719.432 ms
Loss rate: 16.42%
-- Flow 1:
Average throughput: 64.73 Mbit/s
95th percentile per-packet one-way delay: 1872.380 ms
Loss rate: 18.91%
-- Flow 2:
Average throughput: 33.47 Mbit/s
95th percentile per-packet one-way delay: 1326.050 ms
Loss rate: 13.85%
-- Flow 3:
Average throughput: 24.53 Mbit/s
95th percentile per-packet one-way delay: 10.399 ms
Loss rate: 0.14%
```

Run 4: Report of PCC-Allegro — Data Link





Run 5: Statistics of PCC-Allegro

Start at: 2018-10-02 18:13:41

End at: 2018-10-02 18:14:11

Local clock offset: -2.565 ms

Remote clock offset: -0.7 ms

# Below is generated by plot.py at 2018-10-02 18:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.06 Mbit/s

95th percentile per-packet one-way delay: 1843.761 ms

Loss rate: 6.68%

-- Flow 1:

Average throughput: 60.82 Mbit/s

95th percentile per-packet one-way delay: 1870.207 ms

Loss rate: 10.01%

-- Flow 2:

Average throughput: 38.61 Mbit/s

95th percentile per-packet one-way delay: 29.564 ms

Loss rate: 0.11%

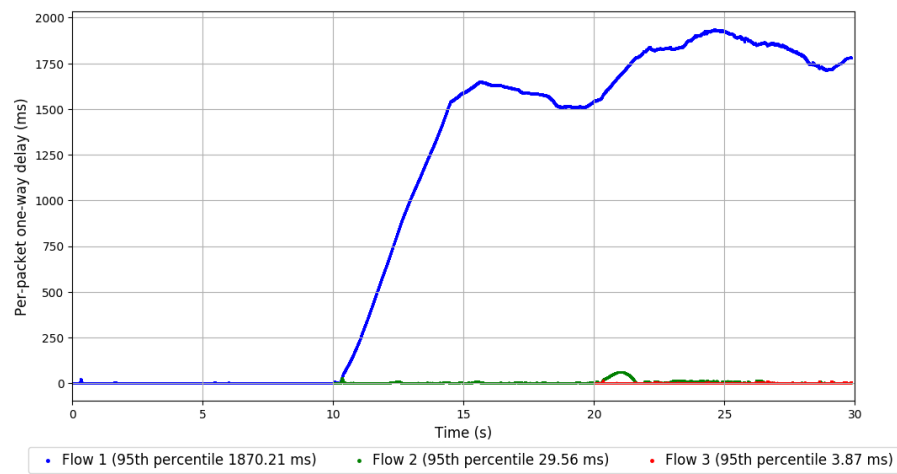
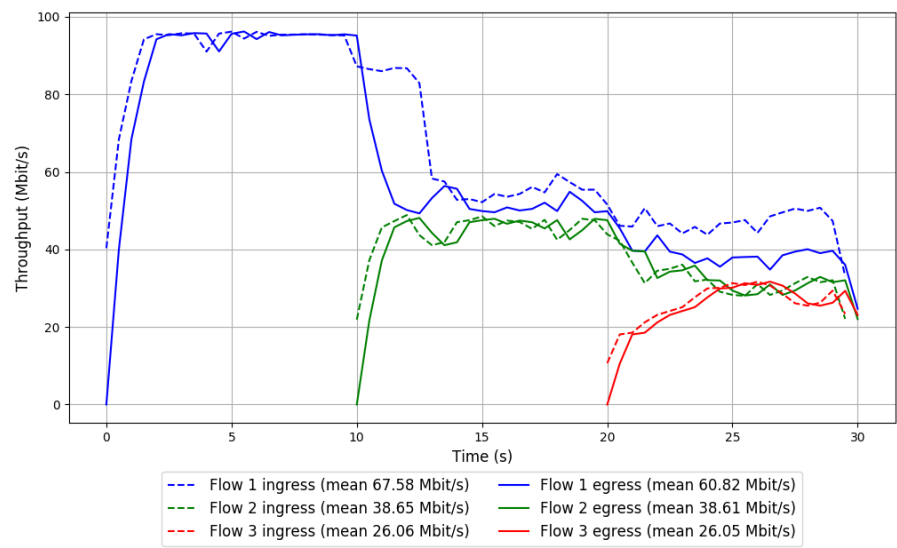
-- Flow 3:

Average throughput: 26.05 Mbit/s

95th percentile per-packet one-way delay: 3.869 ms

Loss rate: 0.10%

Run 5: Report of PCC-Allegro — Data Link

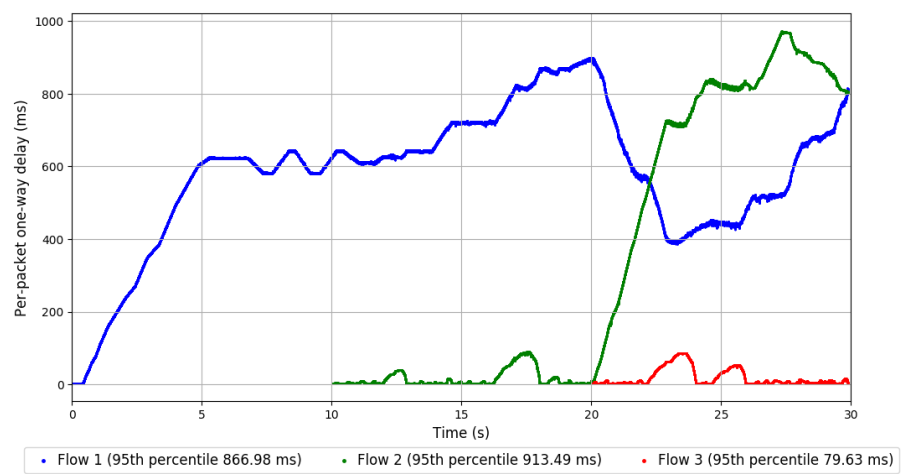
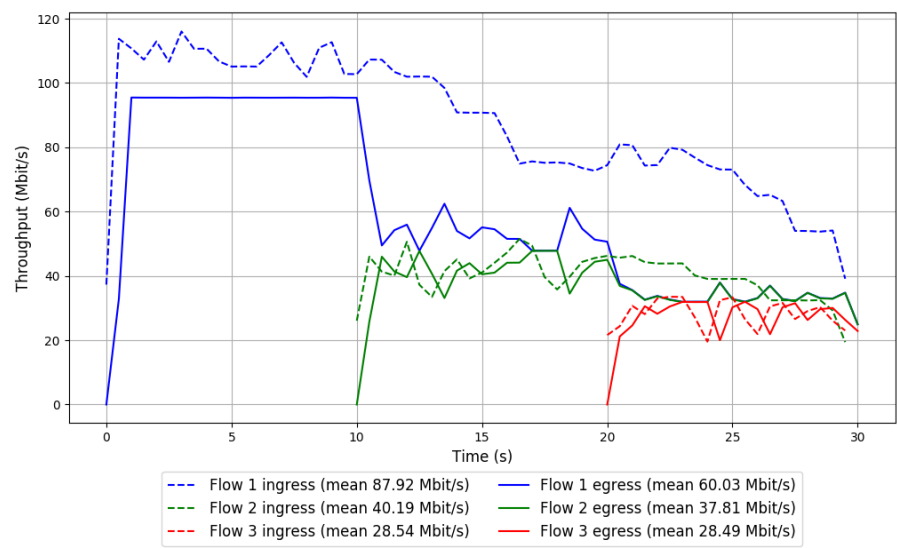


```
Run 1: Statistics of PCC-Expr

Start at: 2018-10-02 16:53:51
End at: 2018-10-02 16:54:21
Local clock offset: -2.166 ms
Remote clock offset: -0.983 ms

# Below is generated by plot.py at 2018-10-02 18:28:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 870.018 ms
Loss rate: 23.80%
-- Flow 1:
Average throughput: 60.03 Mbit/s
95th percentile per-packet one-way delay: 866.976 ms
Loss rate: 31.75%
-- Flow 2:
Average throughput: 37.81 Mbit/s
95th percentile per-packet one-way delay: 913.490 ms
Loss rate: 5.95%
-- Flow 3:
Average throughput: 28.49 Mbit/s
95th percentile per-packet one-way delay: 79.631 ms
Loss rate: 0.25%
```

Run 1: Report of PCC-Expr — Data Link

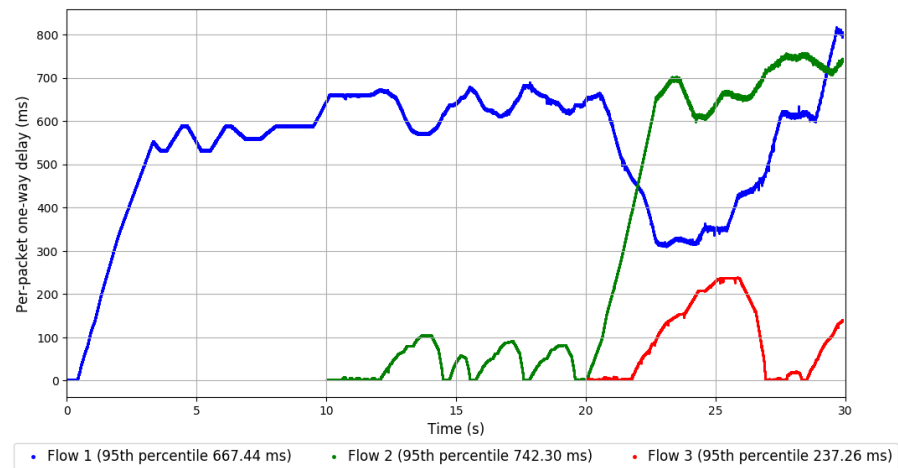
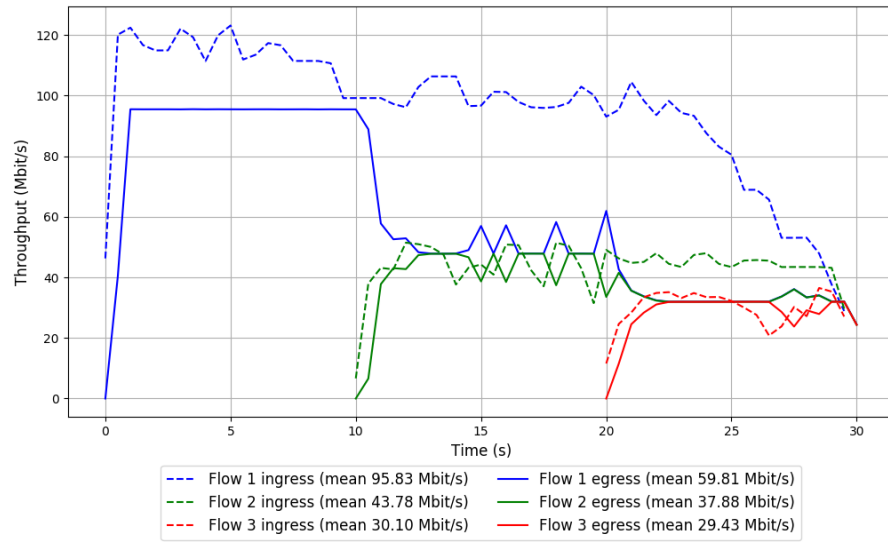


Run 2: Statistics of PCC-Expr

Start at: 2018-10-02 17:14:40  
End at: 2018-10-02 17:15:10  
Local clock offset: -1.426 ms  
Remote clock offset: -0.927 ms

# Below is generated by plot.py at 2018-10-02 18:28:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.71 Mbit/s  
95th percentile per-packet one-way delay: 683.126 ms  
Loss rate: 29.79%  
-- Flow 1:  
Average throughput: 59.81 Mbit/s  
95th percentile per-packet one-way delay: 667.438 ms  
Loss rate: 37.59%  
-- Flow 2:  
Average throughput: 37.88 Mbit/s  
95th percentile per-packet one-way delay: 742.303 ms  
Loss rate: 13.49%  
-- Flow 3:  
Average throughput: 29.43 Mbit/s  
95th percentile per-packet one-way delay: 237.259 ms  
Loss rate: 2.28%

## Run 2: Report of PCC-Expr — Data Link

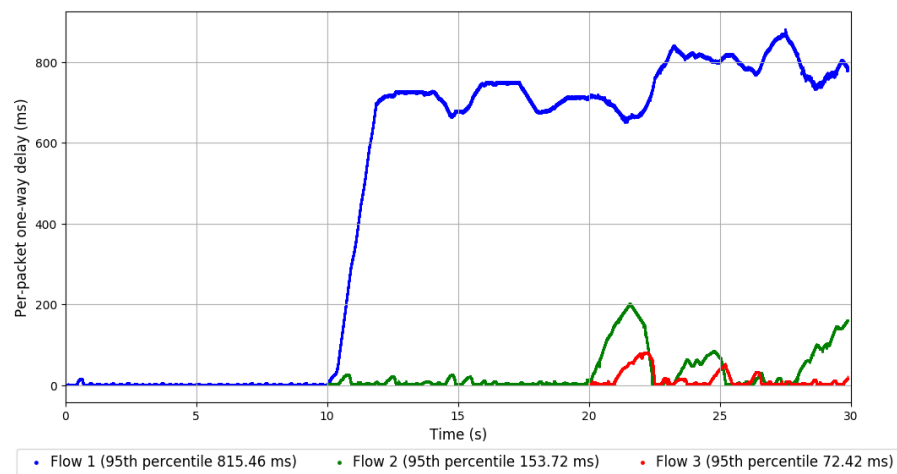
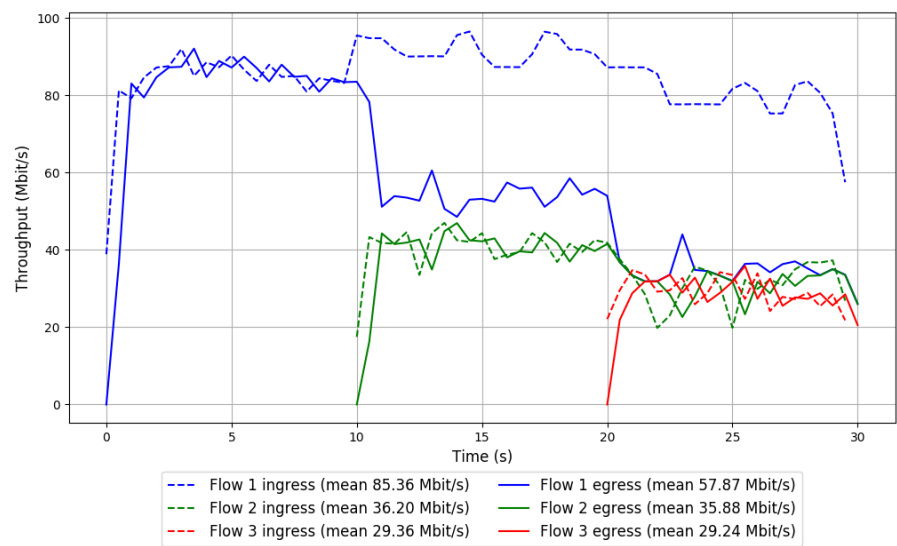


Run 3: Statistics of PCC-Expr

Start at: 2018-10-02 17:35:30  
End at: 2018-10-02 17:36:00  
Local clock offset: -6.621 ms  
Remote clock offset: -0.856 ms

# Below is generated by plot.py at 2018-10-02 18:28:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.38 Mbit/s  
95th percentile per-packet one-way delay: 799.239 ms  
Loss rate: 23.30%  
-- Flow 1:  
Average throughput: 57.87 Mbit/s  
95th percentile per-packet one-way delay: 815.456 ms  
Loss rate: 32.22%  
-- Flow 2:  
Average throughput: 35.88 Mbit/s  
95th percentile per-packet one-way delay: 153.719 ms  
Loss rate: 0.89%  
-- Flow 3:  
Average throughput: 29.24 Mbit/s  
95th percentile per-packet one-way delay: 72.419 ms  
Loss rate: 0.44%

Run 3: Report of PCC-Expr — Data Link



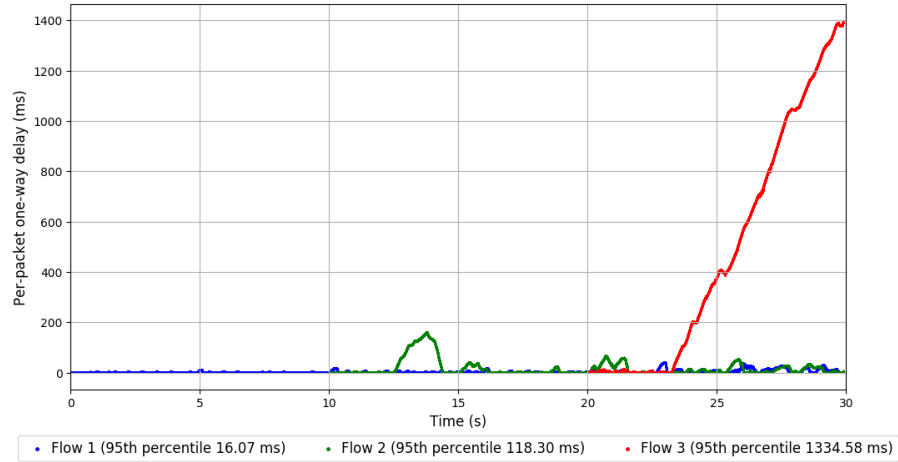
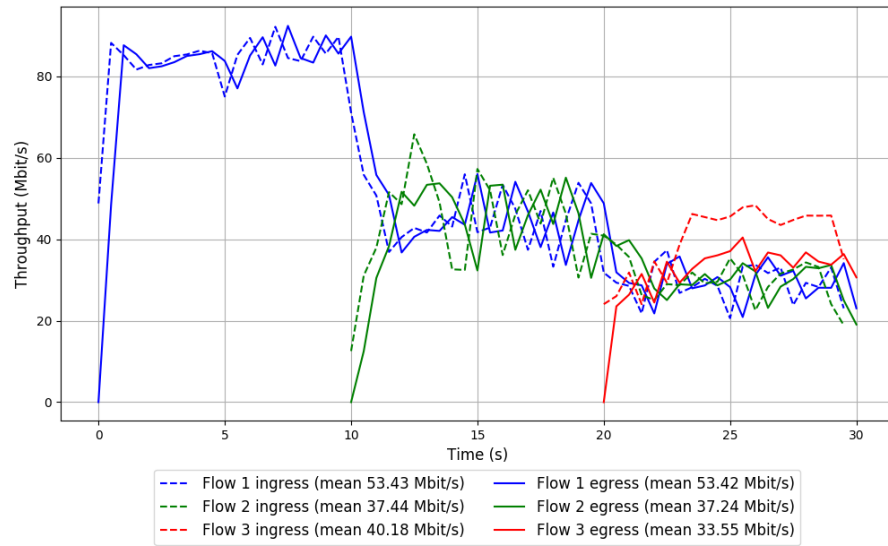


Run 4: Statistics of PCC-Expr

Start at: 2018-10-02 17:56:20  
End at: 2018-10-02 17:56:50  
Local clock offset: -4.058 ms  
Remote clock offset: -0.774 ms

# Below is generated by plot.py at 2018-10-02 18:28:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.25 Mbit/s  
95th percentile per-packet one-way delay: 581.123 ms  
Loss rate: 2.55%  
-- Flow 1:  
Average throughput: 53.42 Mbit/s  
95th percentile per-packet one-way delay: 16.073 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 37.24 Mbit/s  
95th percentile per-packet one-way delay: 118.304 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 33.55 Mbit/s  
95th percentile per-packet one-way delay: 1334.580 ms  
Loss rate: 16.54%

#### Run 4: Report of PCC-Expr — Data Link

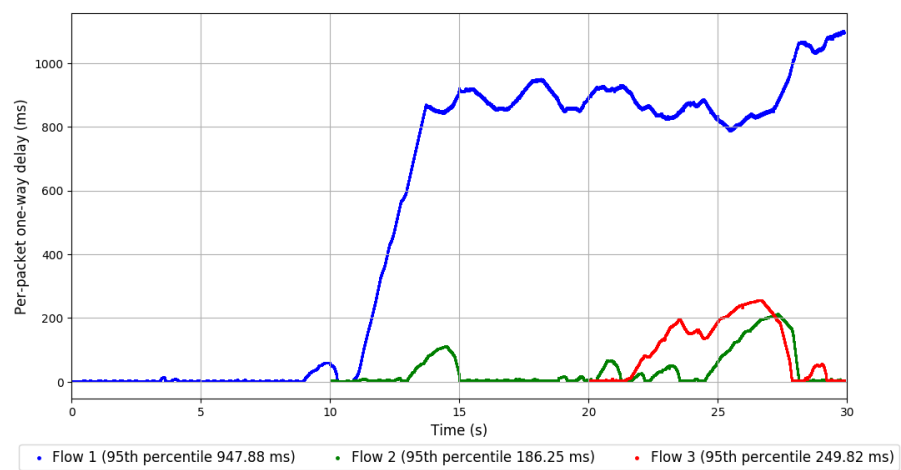
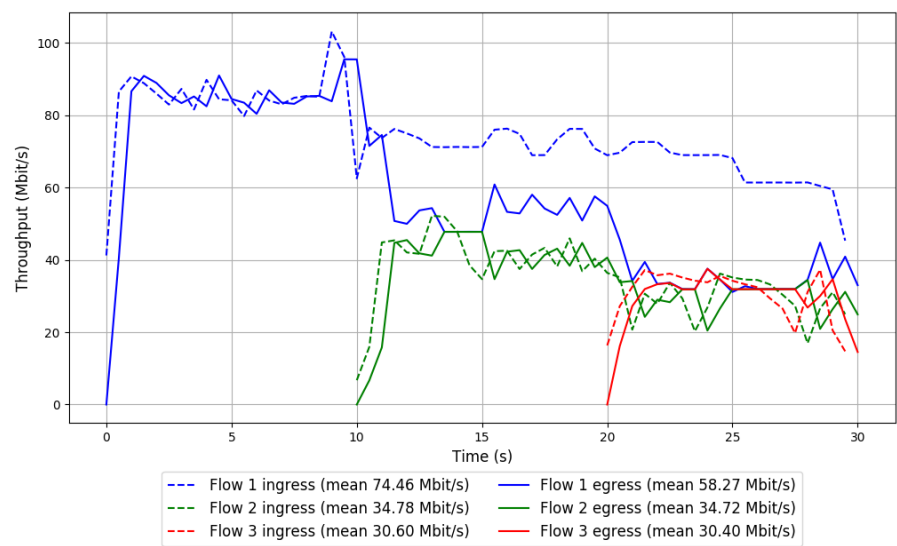


Run 5: Statistics of PCC-Expr

Start at: 2018-10-02 18:17:08  
End at: 2018-10-02 18:17:38  
Local clock offset: -2.36 ms  
Remote clock offset: -0.775 ms

# Below is generated by plot.py at 2018-10-02 18:29:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.37 Mbit/s  
95th percentile per-packet one-way delay: 925.179 ms  
Loss rate: 15.17%  
-- Flow 1:  
Average throughput: 58.27 Mbit/s  
95th percentile per-packet one-way delay: 947.884 ms  
Loss rate: 21.78%  
-- Flow 2:  
Average throughput: 34.72 Mbit/s  
95th percentile per-packet one-way delay: 186.248 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 30.40 Mbit/s  
95th percentile per-packet one-way delay: 249.820 ms  
Loss rate: 0.70%

Run 5: Report of PCC-Expr — Data Link

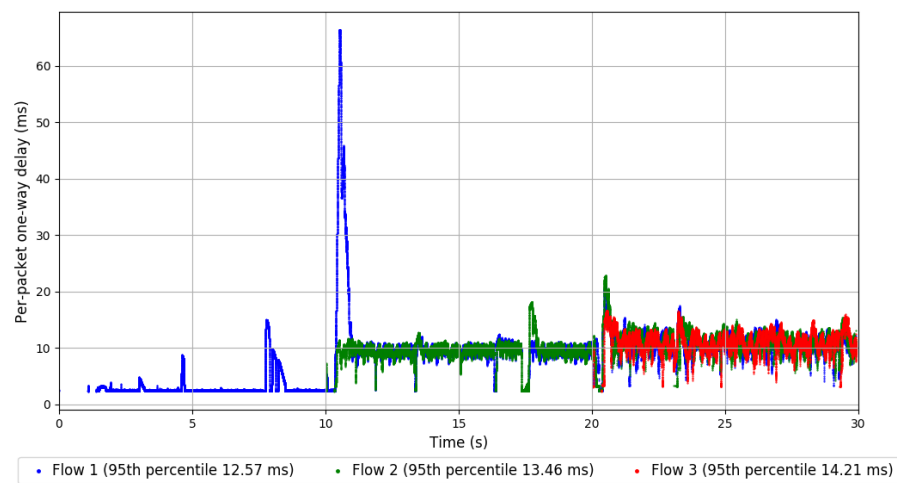
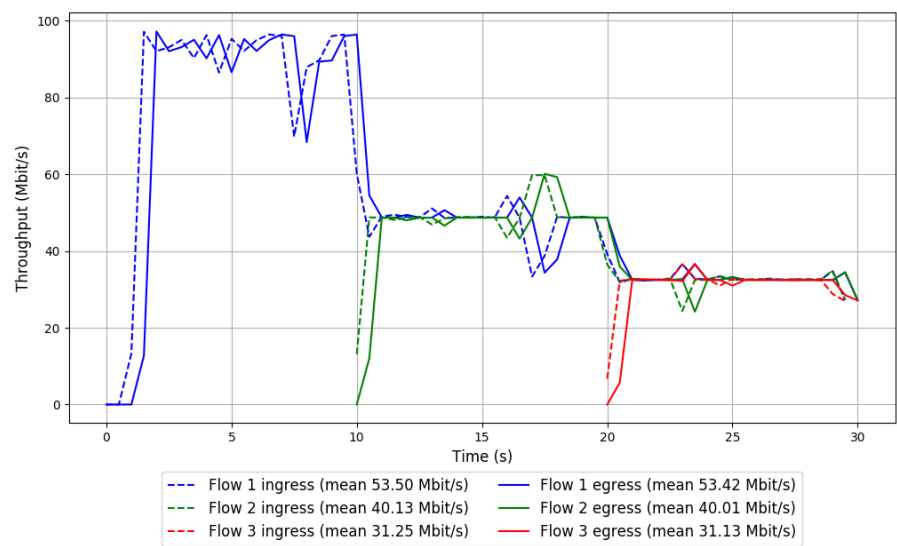


Run 1: Statistics of QUIC Cubic

Start at: 2018-10-02 16:38:51  
End at: 2018-10-02 16:39:21  
Local clock offset: -2.855 ms  
Remote clock offset: -0.994 ms

# Below is generated by plot.py at 2018-10-02 18:29:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.33 Mbit/s  
95th percentile per-packet one-way delay: 13.257 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 53.42 Mbit/s  
95th percentile per-packet one-way delay: 12.574 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 40.01 Mbit/s  
95th percentile per-packet one-way delay: 13.462 ms  
Loss rate: 0.30%  
-- Flow 3:  
Average throughput: 31.13 Mbit/s  
95th percentile per-packet one-way delay: 14.207 ms  
Loss rate: 0.45%

Run 1: Report of QUIC Cubic — Data Link

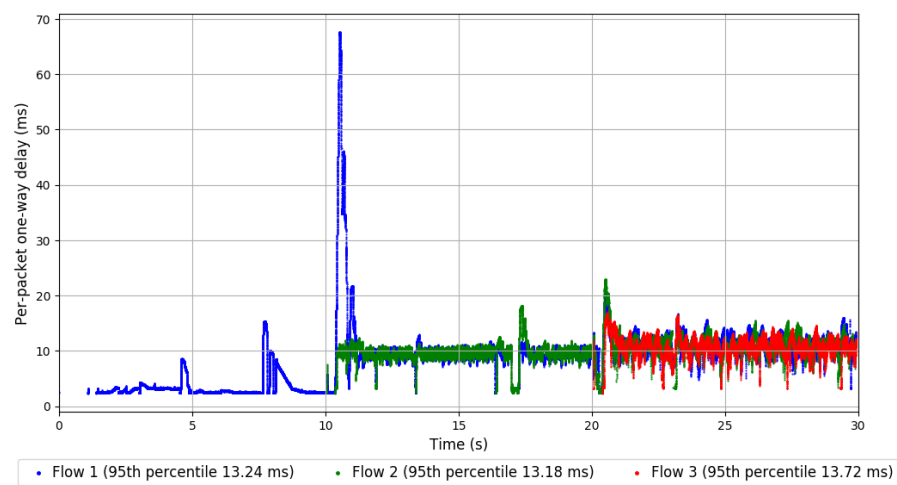
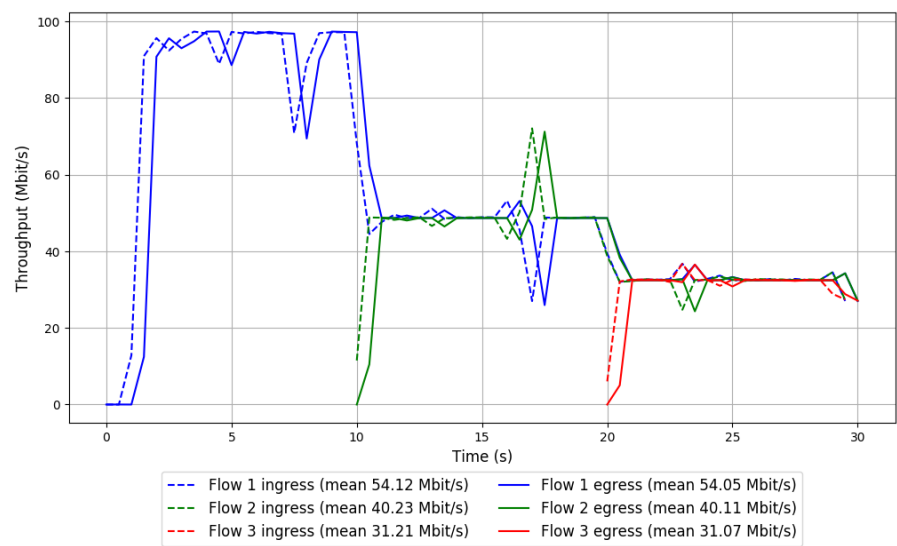


Run 2: Statistics of QUIC Cubic

Start at: 2018-10-02 16:59:41  
End at: 2018-10-02 17:00:11  
Local clock offset: -1.973 ms  
Remote clock offset: -0.983 ms

# Below is generated by plot.py at 2018-10-02 18:29:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.01 Mbit/s  
95th percentile per-packet one-way delay: 13.325 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 54.05 Mbit/s  
95th percentile per-packet one-way delay: 13.243 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 40.11 Mbit/s  
95th percentile per-packet one-way delay: 13.182 ms  
Loss rate: 0.30%  
-- Flow 3:  
Average throughput: 31.07 Mbit/s  
95th percentile per-packet one-way delay: 13.721 ms  
Loss rate: 0.48%

Run 2: Report of QUIC Cubic — Data Link



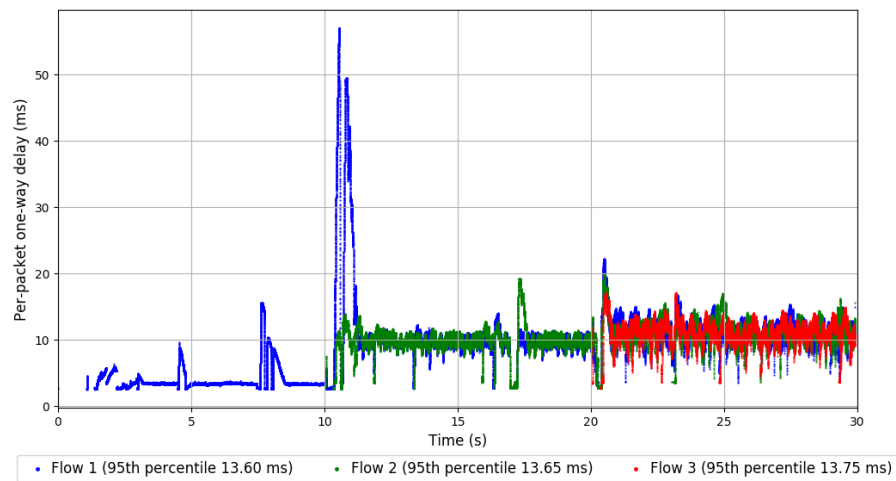
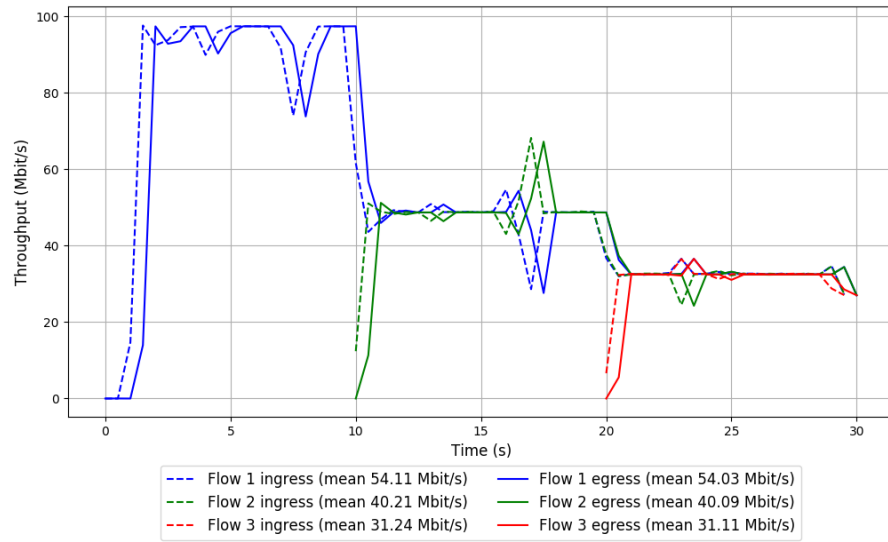


Run 3: Statistics of QUIC Cubic

Start at: 2018-10-02 17:20:31  
End at: 2018-10-02 17:21:01  
Local clock offset: -3.729 ms  
Remote clock offset: -0.851 ms

# Below is generated by plot.py at 2018-10-02 18:29:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.98 Mbit/s  
95th percentile per-packet one-way delay: 13.652 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 54.03 Mbit/s  
95th percentile per-packet one-way delay: 13.599 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 40.09 Mbit/s  
95th percentile per-packet one-way delay: 13.649 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 31.11 Mbit/s  
95th percentile per-packet one-way delay: 13.750 ms  
Loss rate: 0.47%

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

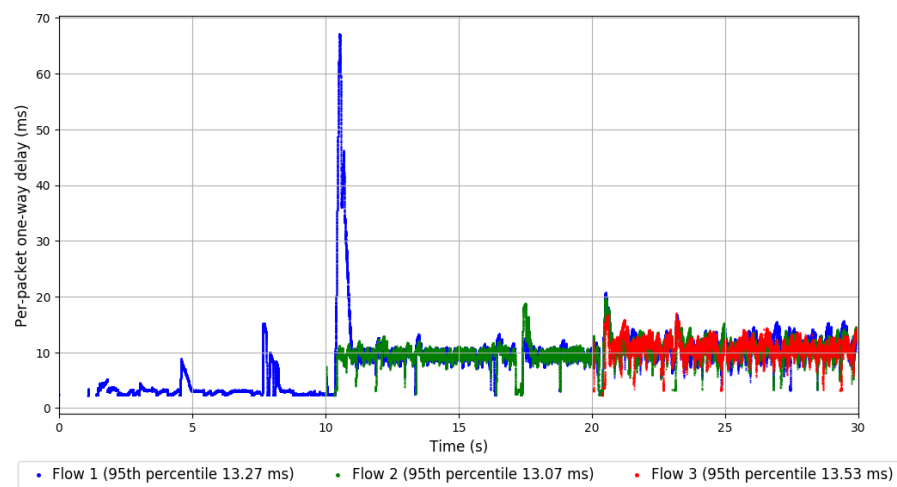
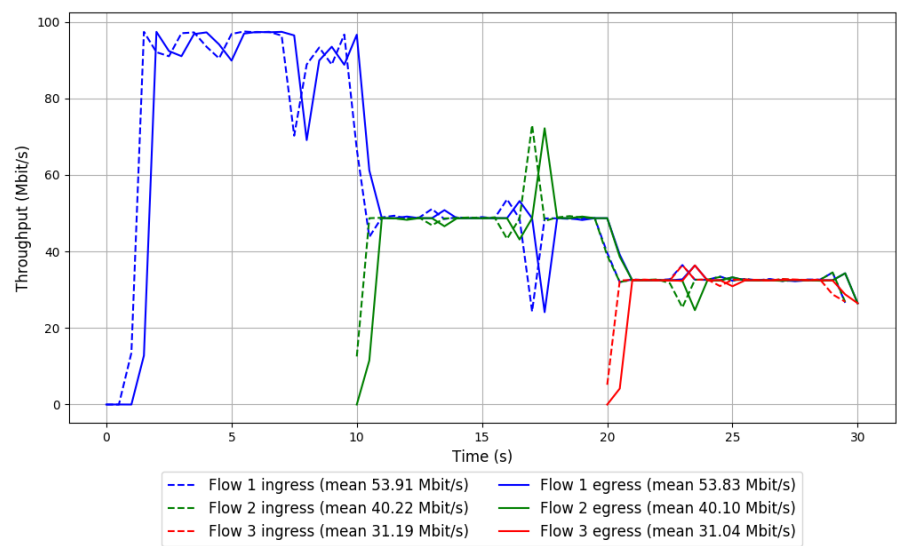


Run 4: Statistics of QUIC Cubic

Start at: 2018-10-02 17:41:20  
End at: 2018-10-02 17:41:50  
Local clock offset: -7.054 ms  
Remote clock offset: -0.806 ms

# Below is generated by plot.py at 2018-10-02 18:29:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.77 Mbit/s  
95th percentile per-packet one-way delay: 13.254 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 53.83 Mbit/s  
95th percentile per-packet one-way delay: 13.266 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 40.10 Mbit/s  
95th percentile per-packet one-way delay: 13.071 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 31.04 Mbit/s  
95th percentile per-packet one-way delay: 13.534 ms  
Loss rate: 0.52%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-10-02 18:02:09

End at: 2018-10-02 18:02:39

Local clock offset: -3.329 ms

Remote clock offset: -0.8 ms

# Below is generated by plot.py at 2018-10-02 18:29:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.61 Mbit/s

95th percentile per-packet one-way delay: 13.163 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 53.60 Mbit/s

95th percentile per-packet one-way delay: 12.882 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 40.21 Mbit/s

95th percentile per-packet one-way delay: 12.983 ms

Loss rate: 0.28%

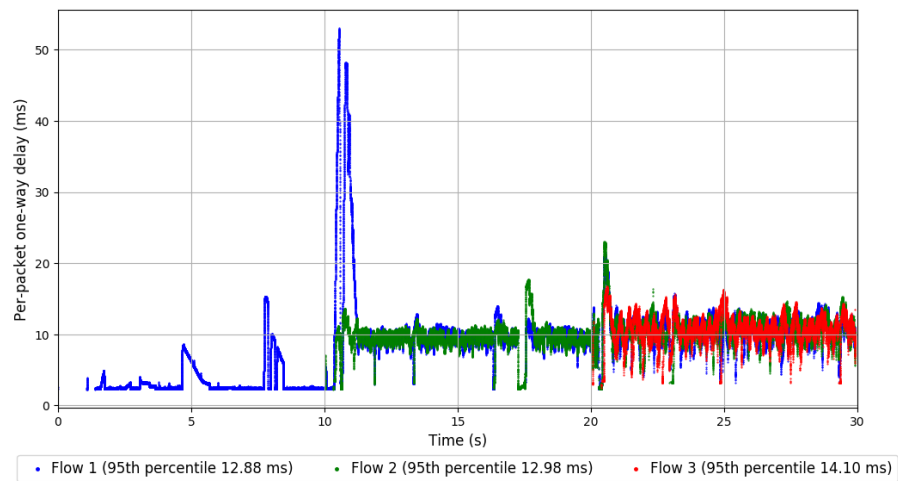
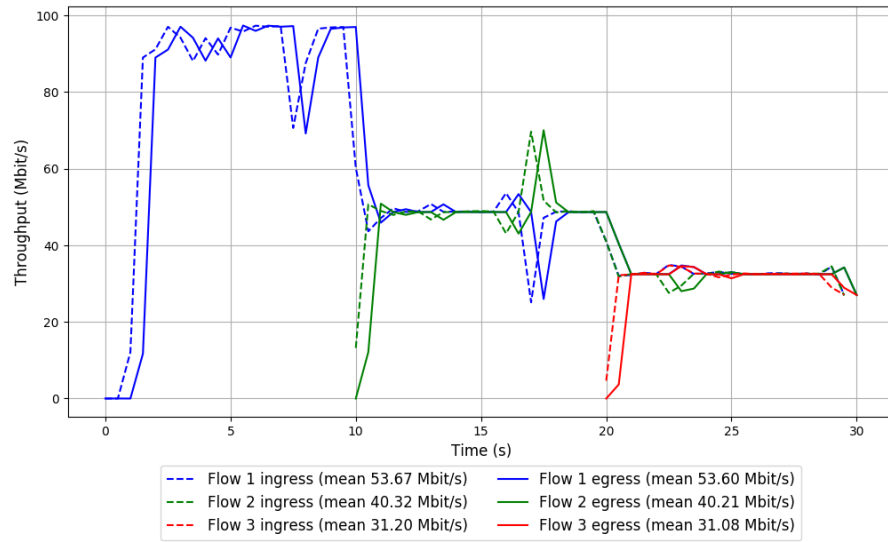
-- Flow 3:

Average throughput: 31.08 Mbit/s

95th percentile per-packet one-way delay: 14.103 ms

Loss rate: 0.46%

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

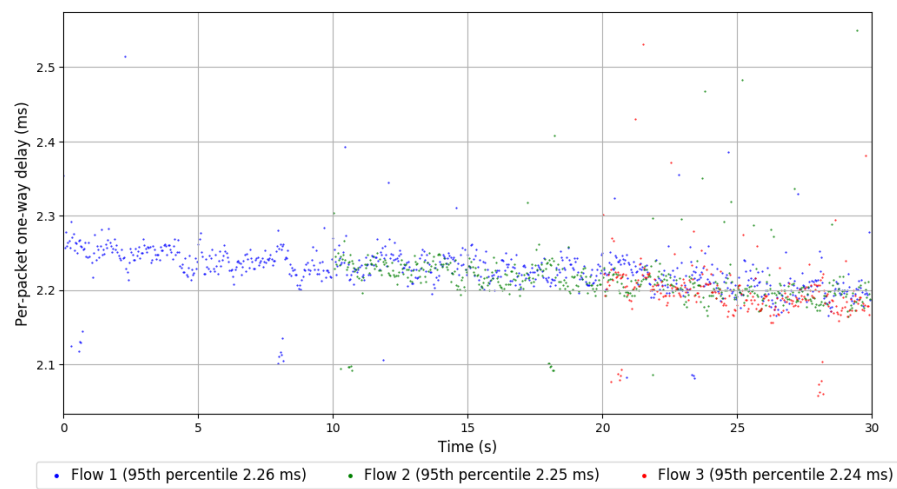
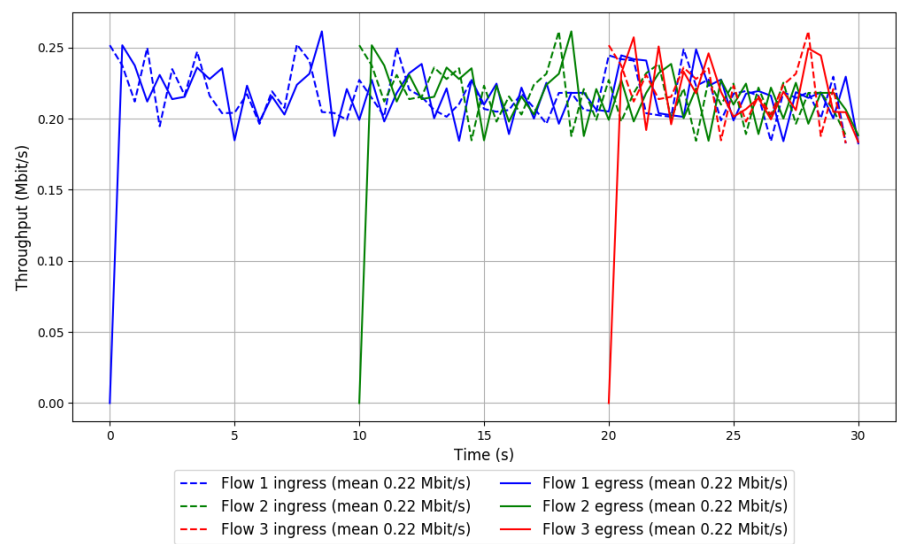


Run 1: Statistics of SReAM

Start at: 2018-10-02 16:34:14  
End at: 2018-10-02 16:34:44  
Local clock offset: -3.342 ms  
Remote clock offset: -0.833 ms

# Below is generated by plot.py at 2018-10-02 18:29:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 2.260 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.264 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.248 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.243 ms  
Loss rate: 0.35%

Run 1: Report of SReAM — Data Link



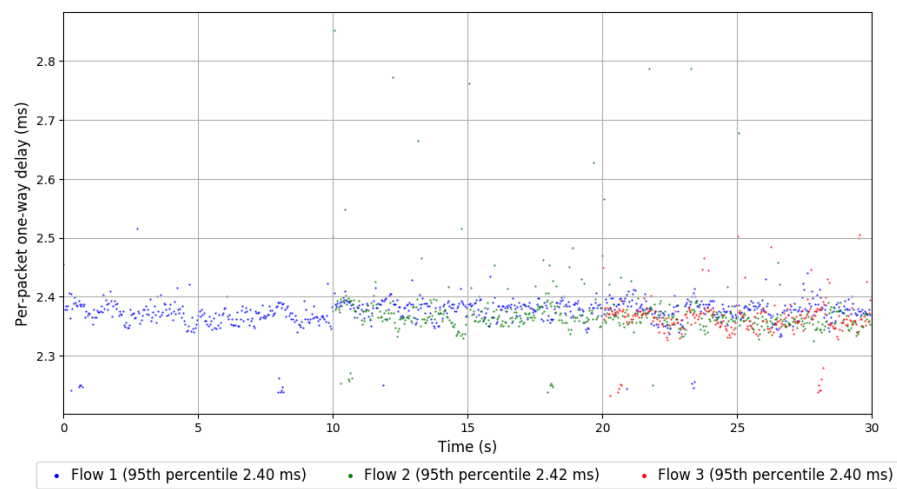
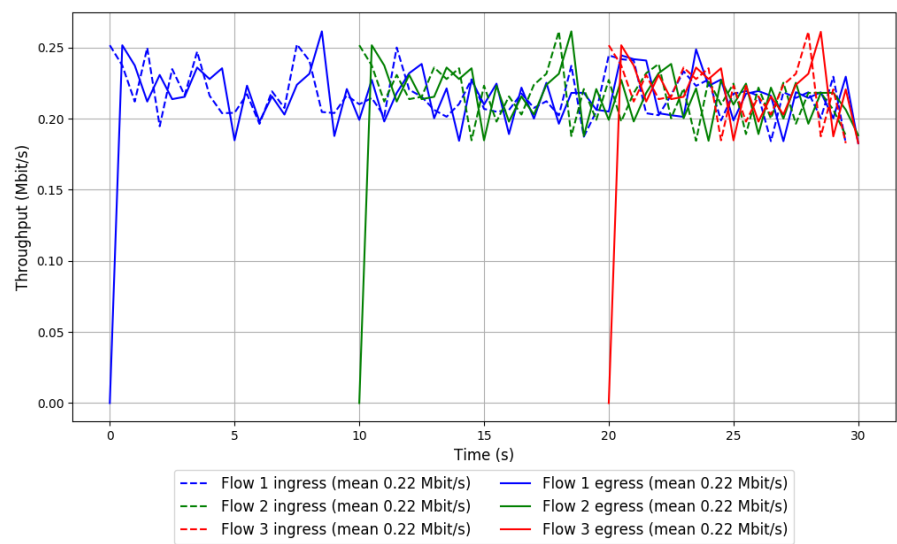


Run 2: Statistics of SReAM

Start at: 2018-10-02 16:55:04  
End at: 2018-10-02 16:55:34  
Local clock offset: -2.206 ms  
Remote clock offset: -1.022 ms

# Below is generated by plot.py at 2018-10-02 18:29:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 2.405 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.402 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.422 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.402 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

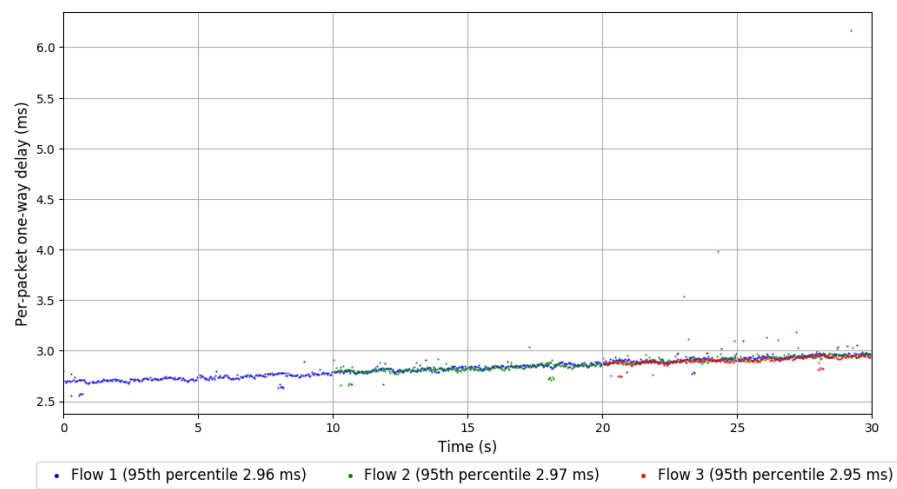
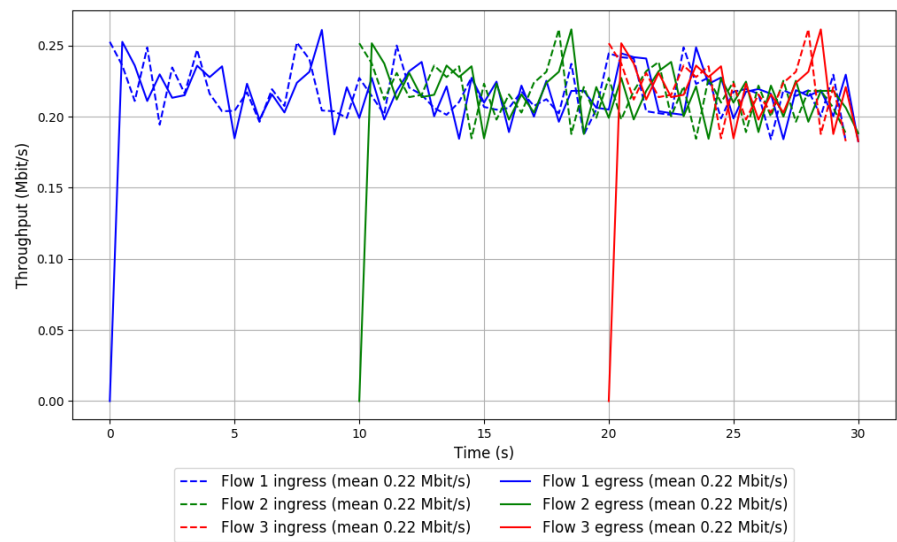


Run 3: Statistics of SReAM

Start at: 2018-10-02 17:15:54  
End at: 2018-10-02 17:16:24  
Local clock offset: -1.538 ms  
Remote clock offset: -0.885 ms

# Below is generated by plot.py at 2018-10-02 18:29:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 2.962 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.961 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.967 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.954 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

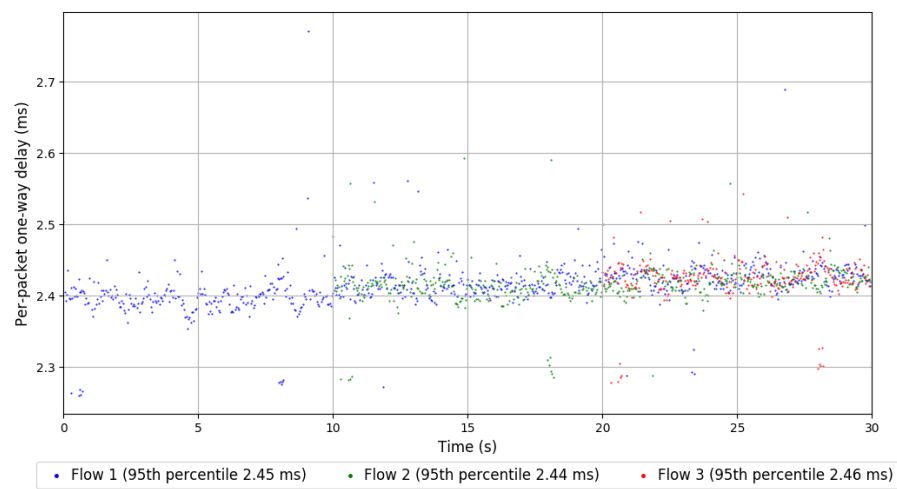
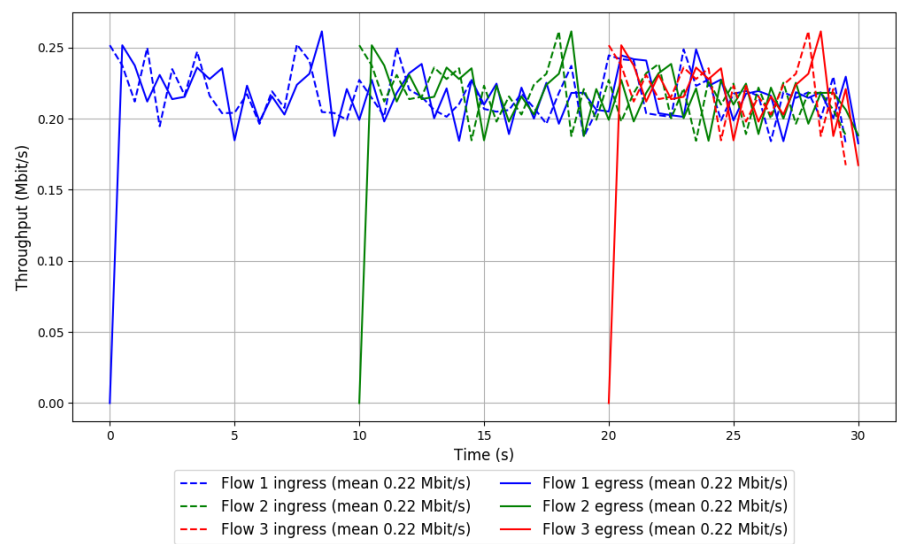


Run 4: Statistics of SReAM

Start at: 2018-10-02 17:36:44  
End at: 2018-10-02 17:37:14  
Local clock offset: -6.719 ms  
Remote clock offset: -0.798 ms

# Below is generated by plot.py at 2018-10-02 18:29:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 2.450 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.448 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.443 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.456 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

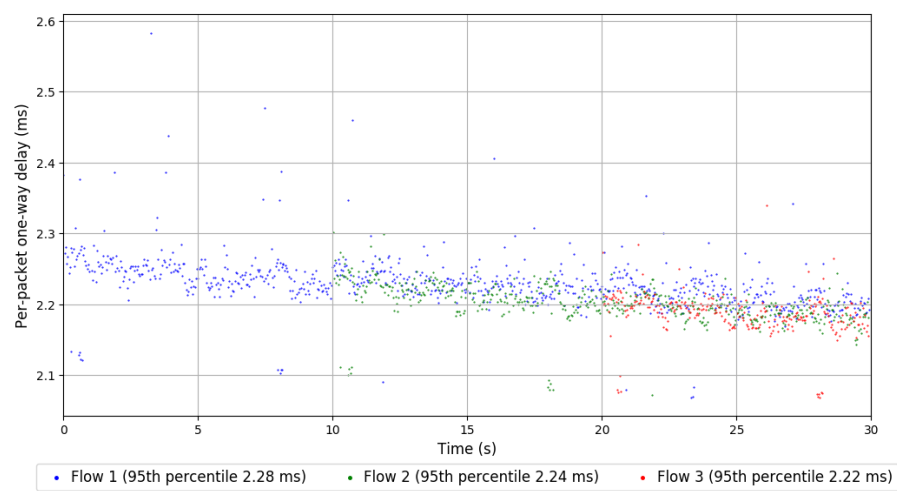
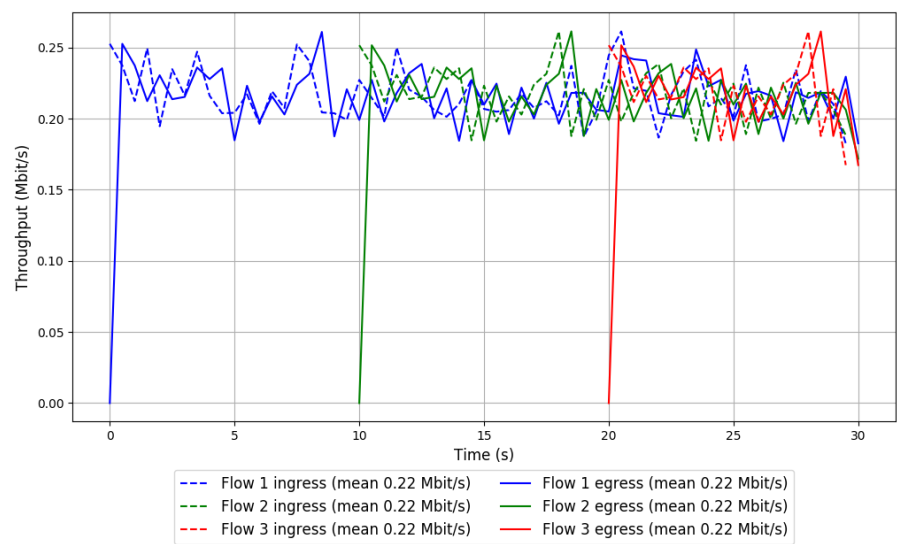


Run 5: Statistics of SReAM

Start at: 2018-10-02 17:57:32  
End at: 2018-10-02 17:58:02  
Local clock offset: -3.922 ms  
Remote clock offset: -0.749 ms

# Below is generated by plot.py at 2018-10-02 18:29:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 2.264 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.277 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.240 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.216 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



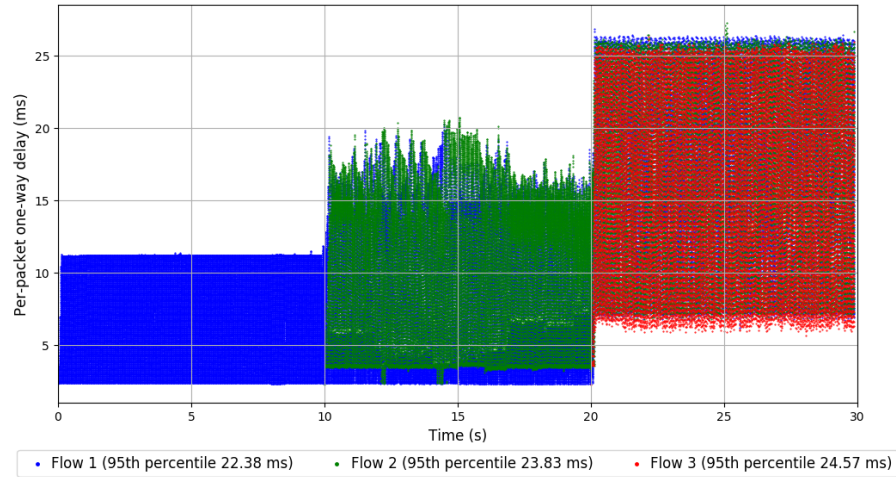
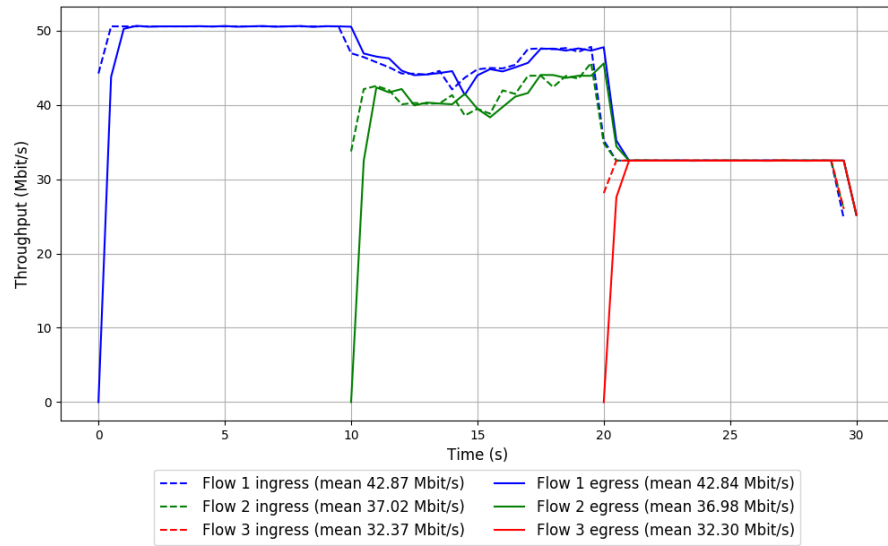


Run 1: Statistics of Sprout

Start at: 2018-10-02 16:46:56  
End at: 2018-10-02 16:47:26  
Local clock offset: -2.359 ms  
Remote clock offset: -0.948 ms

# Below is generated by plot.py at 2018-10-02 18:29:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.10 Mbit/s  
95th percentile per-packet one-way delay: 23.591 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 42.84 Mbit/s  
95th percentile per-packet one-way delay: 22.377 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 36.98 Mbit/s  
95th percentile per-packet one-way delay: 23.830 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 32.30 Mbit/s  
95th percentile per-packet one-way delay: 24.571 ms  
Loss rate: 0.21%

## Run 1: Report of Sprout — Data Link



## Run 2: Statistics of Sprout

Start at: 2018-10-02 17:07:46

End at: 2018-10-02 17:08:16

Local clock offset: -1.703 ms

Remote clock offset: -0.89 ms

# Below is generated by plot.py at 2018-10-02 18:29:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.32 Mbit/s

95th percentile per-packet one-way delay: 23.835 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 42.21 Mbit/s

95th percentile per-packet one-way delay: 22.388 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 39.83 Mbit/s

95th percentile per-packet one-way delay: 23.827 ms

Loss rate: 0.10%

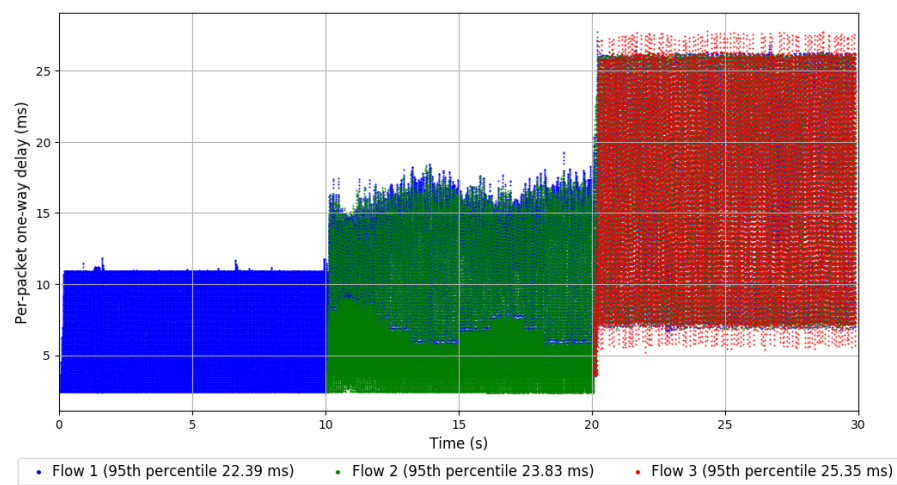
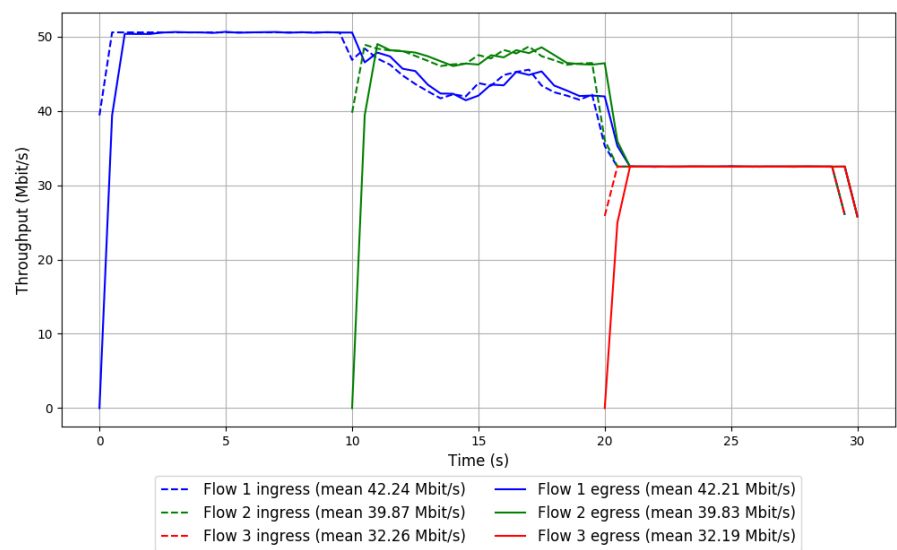
-- Flow 3:

Average throughput: 32.19 Mbit/s

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

Loss rate: 0.18%

Run 2: Report of Sprout — Data Link

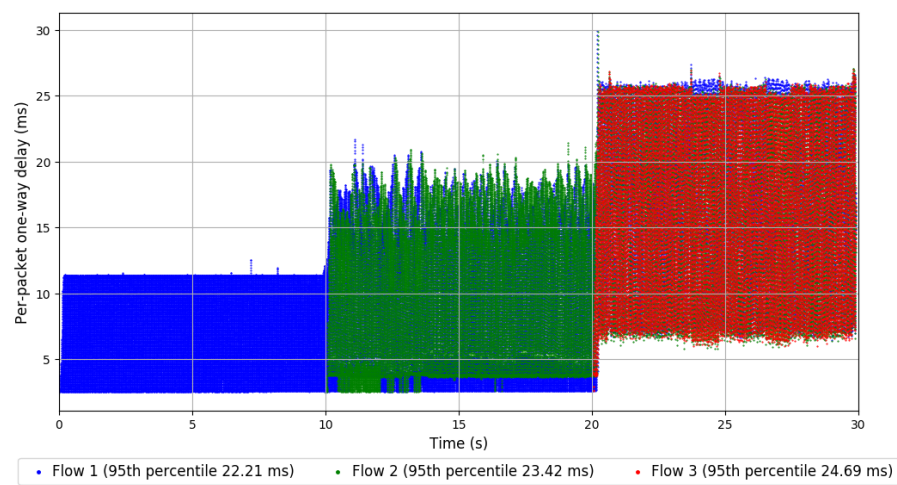
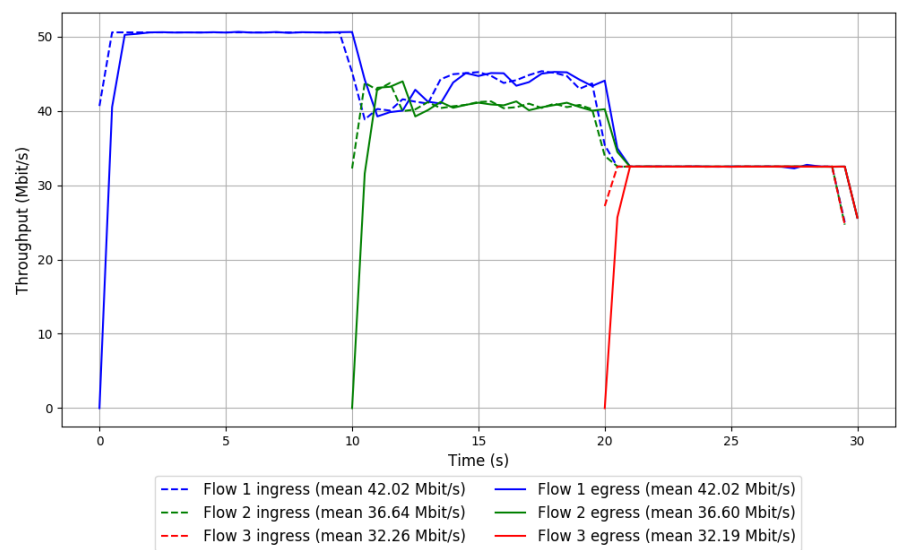


### Run 3: Statistics of Sprout

Start at: 2018-10-02 17:28:35  
End at: 2018-10-02 17:29:05  
Local clock offset: -5.787 ms  
Remote clock offset: -0.886 ms

```
# Below is generated by plot.py at 2018-10-02 18:29:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.01 Mbit/s
95th percentile per-packet one-way delay: 23.438 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 42.02 Mbit/s
95th percentile per-packet one-way delay: 22.209 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 36.60 Mbit/s
95th percentile per-packet one-way delay: 23.419 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 24.693 ms
Loss rate: 0.09%
```

Run 3: Report of Sprout — Data Link

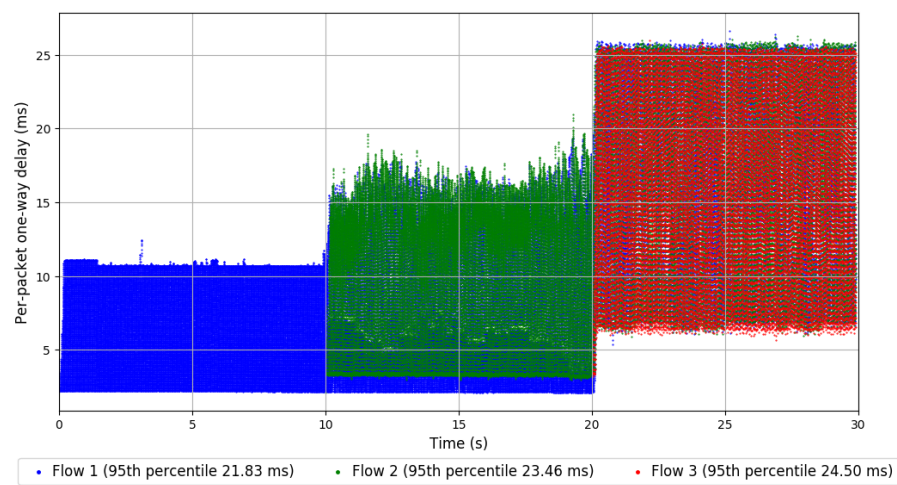
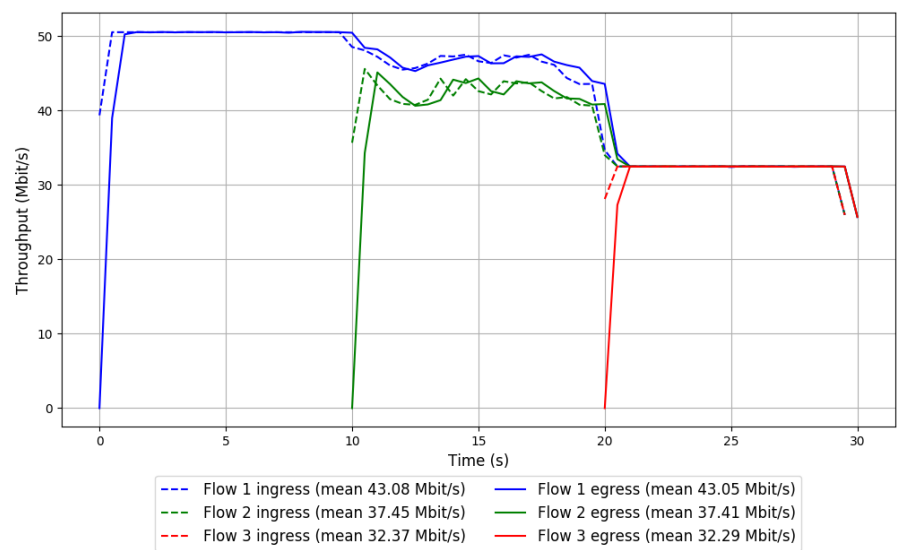


#### Run 4: Statistics of Sprout

Start at: 2018-10-02 17:49:25  
End at: 2018-10-02 17:49:55  
Local clock offset: -5.804 ms  
Remote clock offset: -0.856 ms

```
# Below is generated by plot.py at 2018-10-02 18:29:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.60 Mbit/s
95th percentile per-packet one-way delay: 23.278 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 43.05 Mbit/s
95th percentile per-packet one-way delay: 21.831 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 37.41 Mbit/s
95th percentile per-packet one-way delay: 23.462 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 24.502 ms
Loss rate: 0.17%
```

Run 4: Report of Sprout — Data Link



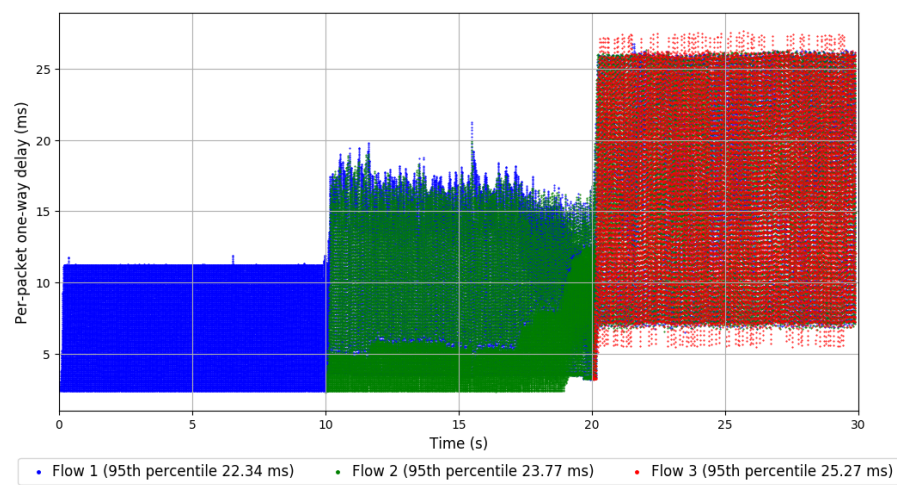
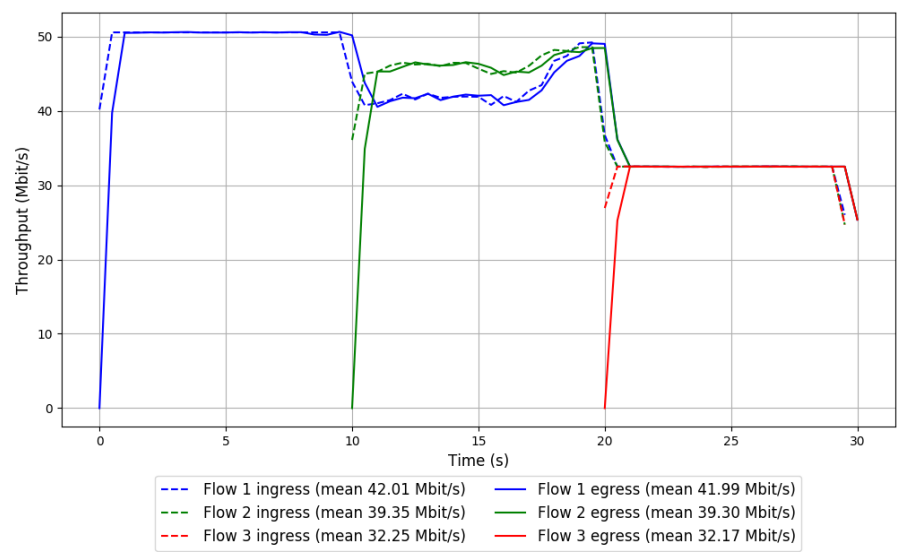


Run 5: Statistics of Sprout

Start at: 2018-10-02 18:10:14  
End at: 2018-10-02 18:10:44  
Local clock offset: -2.716 ms  
Remote clock offset: -0.684 ms

# Below is generated by plot.py at 2018-10-02 18:29:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.76 Mbit/s  
95th percentile per-packet one-way delay: 23.774 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 41.99 Mbit/s  
95th percentile per-packet one-way delay: 22.337 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 39.30 Mbit/s  
95th percentile per-packet one-way delay: 23.769 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 32.17 Mbit/s  
95th percentile per-packet one-way delay: 25.275 ms  
Loss rate: 0.16%

Run 5: Report of Sprout — Data Link

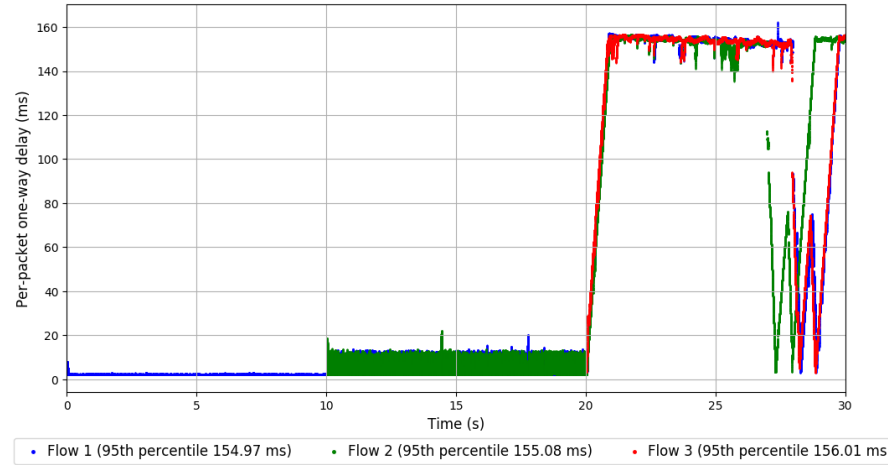
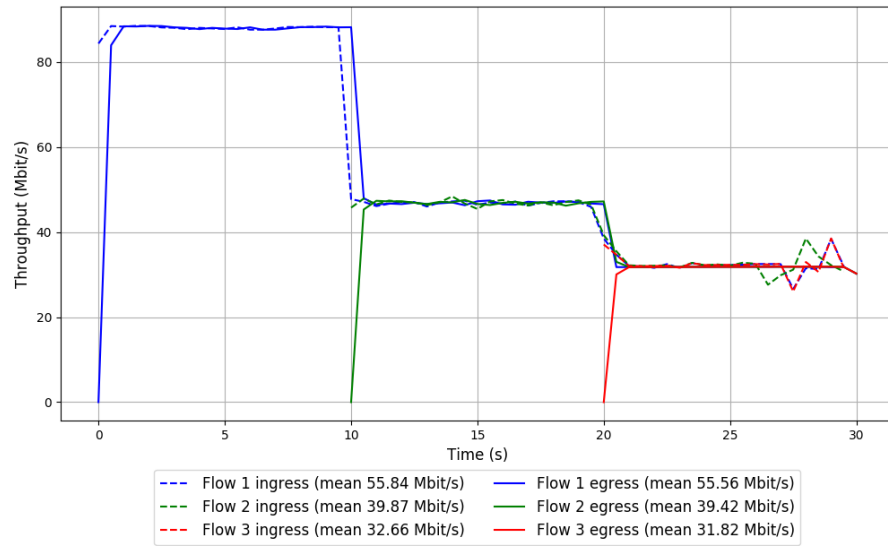


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-10-02 16:52:38
End at: 2018-10-02 16:53:08
Local clock offset: -2.213 ms
Remote clock offset: -0.963 ms

# Below is generated by plot.py at 2018-10-02 18:31:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 155.285 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 55.56 Mbit/s
95th percentile per-packet one-way delay: 154.967 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 39.42 Mbit/s
95th percentile per-packet one-way delay: 155.078 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 31.82 Mbit/s
95th percentile per-packet one-way delay: 156.007 ms
Loss rate: 2.66%
```

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

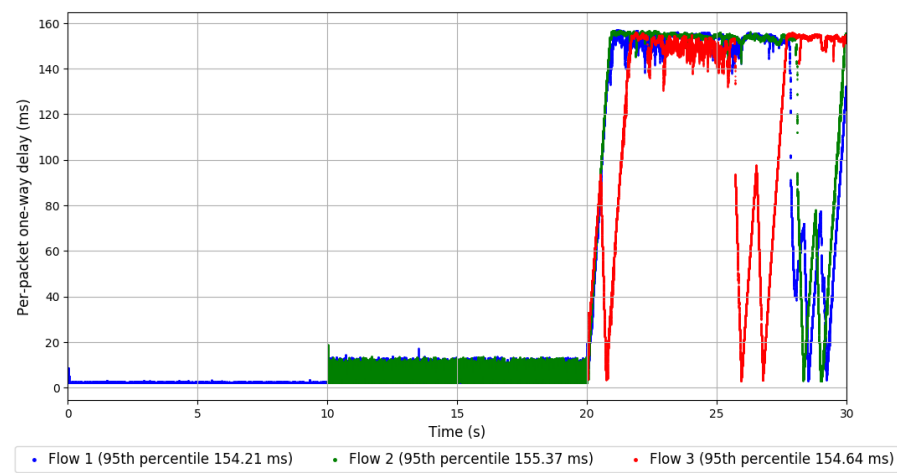
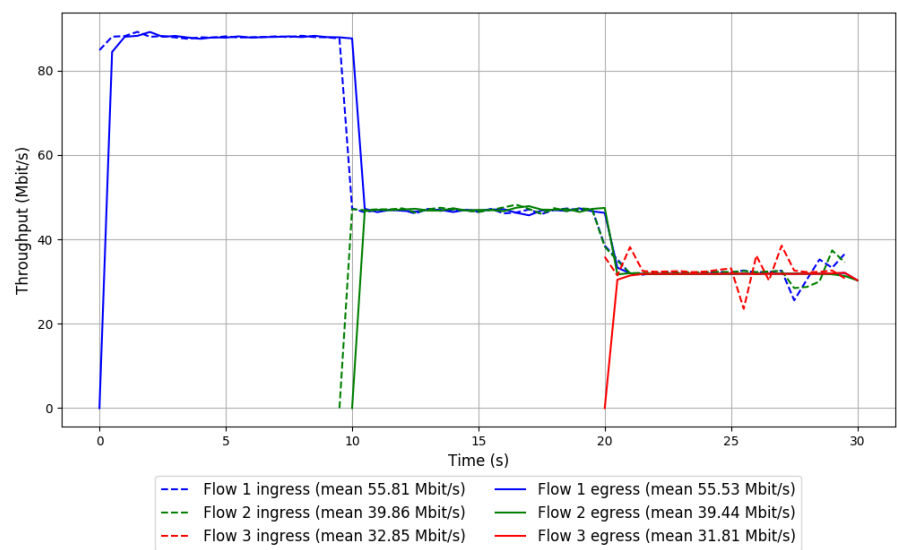


Run 2: Statistics of TaoVA-100x

Start at: 2018-10-02 17:13:27  
End at: 2018-10-02 17:13:57  
Local clock offset: -1.459 ms  
Remote clock offset: -0.826 ms

# Below is generated by plot.py at 2018-10-02 18:31:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.39 Mbit/s  
95th percentile per-packet one-way delay: 154.750 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 55.53 Mbit/s  
95th percentile per-packet one-way delay: 154.211 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 39.44 Mbit/s  
95th percentile per-packet one-way delay: 155.371 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 31.81 Mbit/s  
95th percentile per-packet one-way delay: 154.643 ms  
Loss rate: 3.21%

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

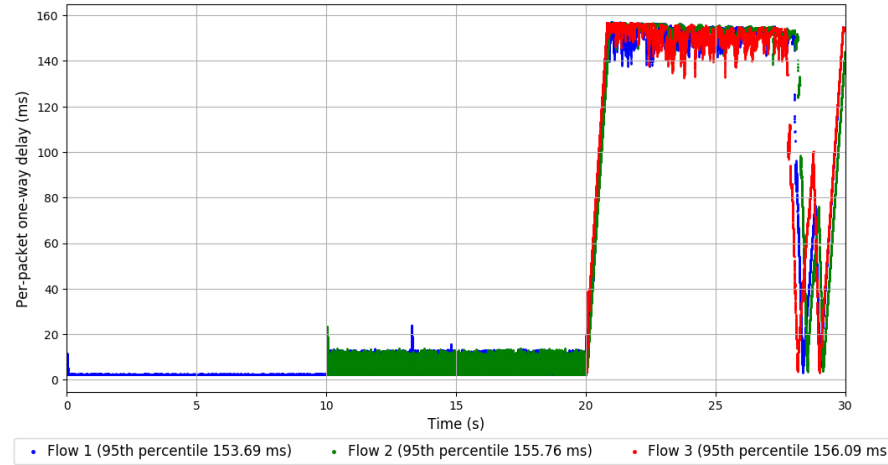
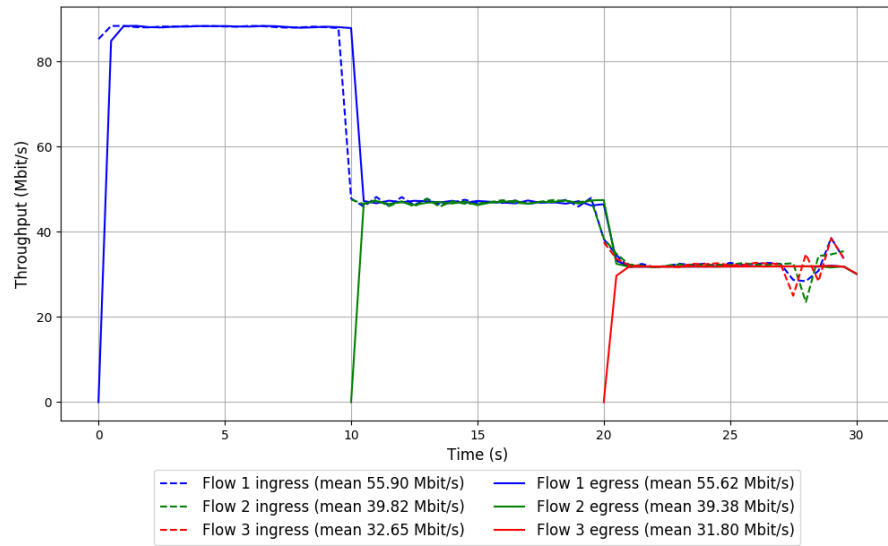


Run 3: Statistics of TaoVA-100x

Start at: 2018-10-02 17:34:18  
End at: 2018-10-02 17:34:48  
Local clock offset: -6.543 ms  
Remote clock offset: -0.865 ms

# Below is generated by plot.py at 2018-10-02 18:31:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.41 Mbit/s  
95th percentile per-packet one-way delay: 155.064 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 55.62 Mbit/s  
95th percentile per-packet one-way delay: 153.689 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 39.38 Mbit/s  
95th percentile per-packet one-way delay: 155.761 ms  
Loss rate: 1.12%  
-- Flow 3:  
Average throughput: 31.80 Mbit/s  
95th percentile per-packet one-way delay: 156.090 ms  
Loss rate: 2.66%

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



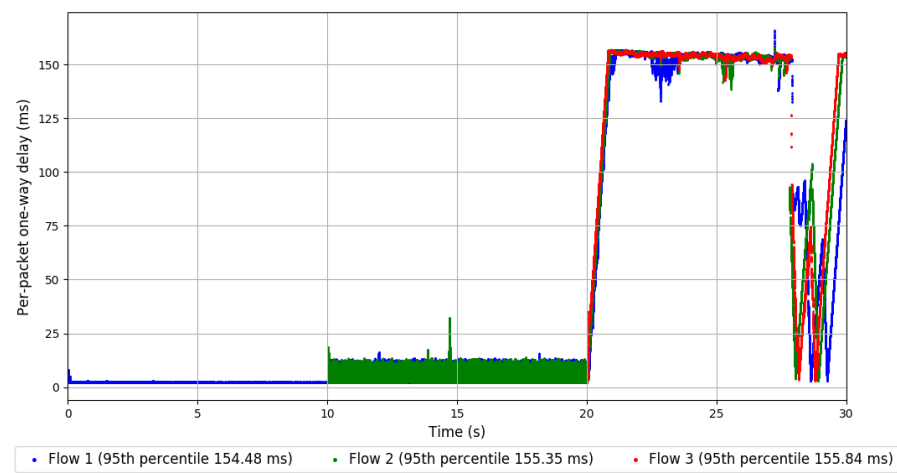
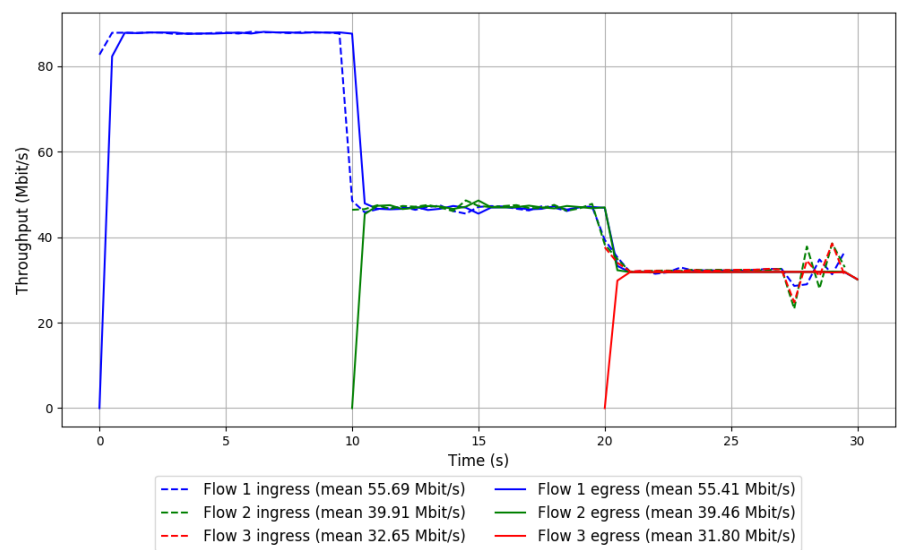


Run 4: Statistics of TaoVA-100x

Start at: 2018-10-02 17:55:07  
End at: 2018-10-02 17:55:37  
Local clock offset: -4.277 ms  
Remote clock offset: -0.814 ms

# Below is generated by plot.py at 2018-10-02 18:31:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.24 Mbit/s  
95th percentile per-packet one-way delay: 155.145 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 55.41 Mbit/s  
95th percentile per-packet one-way delay: 154.484 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 39.46 Mbit/s  
95th percentile per-packet one-way delay: 155.348 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 31.80 Mbit/s  
95th percentile per-packet one-way delay: 155.839 ms  
Loss rate: 2.67%

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

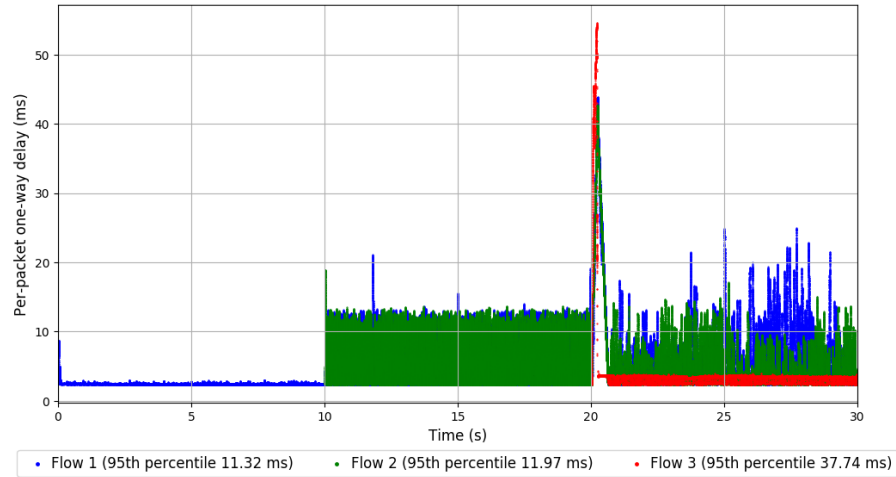
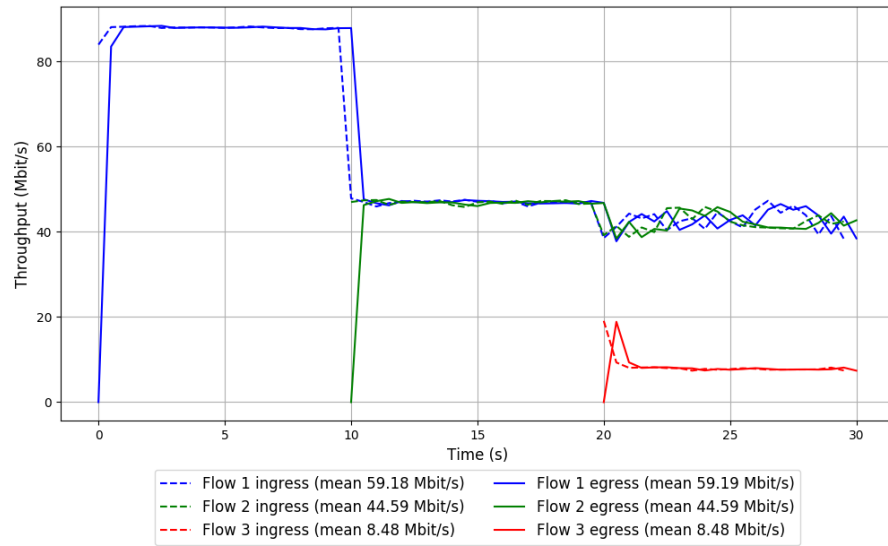


Run 5: Statistics of TaoVA-100x

Start at: 2018-10-02 18:15:56  
End at: 2018-10-02 18:16:26  
Local clock offset: -2.453 ms  
Remote clock offset: -0.768 ms

# Below is generated by plot.py at 2018-10-02 18:31:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.71 Mbit/s  
95th percentile per-packet one-way delay: 11.647 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 59.19 Mbit/s  
95th percentile per-packet one-way delay: 11.324 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 44.59 Mbit/s  
95th percentile per-packet one-way delay: 11.966 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 8.48 Mbit/s  
95th percentile per-packet one-way delay: 37.745 ms  
Loss rate: 0.14%

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

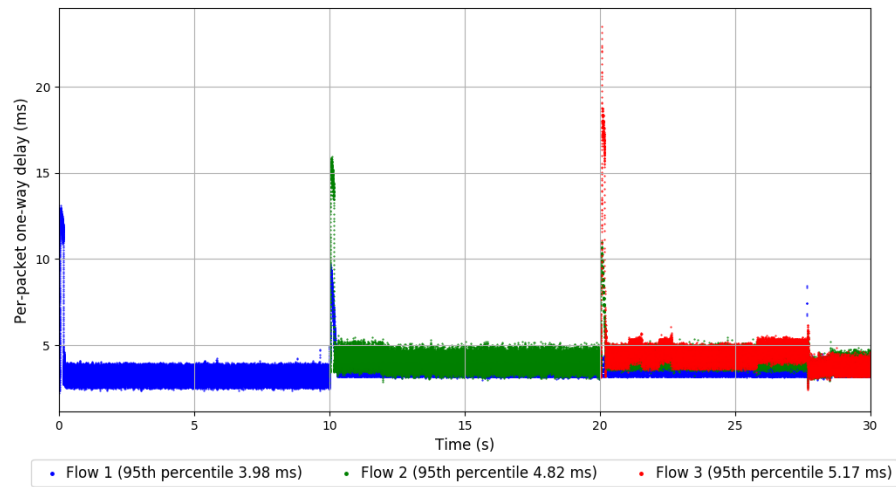
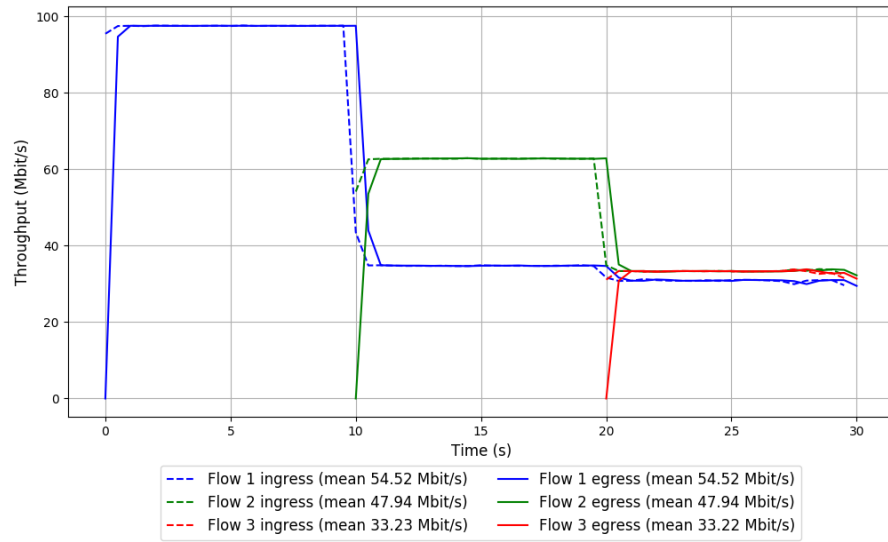


Run 1: Statistics of TCP Vegas

Start at: 2018-10-02 16:40:00  
End at: 2018-10-02 16:40:30  
Local clock offset: -2.755 ms  
Remote clock offset: -0.907 ms

# Below is generated by plot.py at 2018-10-02 18:31:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 4.804 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 54.52 Mbit/s  
95th percentile per-packet one-way delay: 3.976 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 47.94 Mbit/s  
95th percentile per-packet one-way delay: 4.824 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 33.22 Mbit/s  
95th percentile per-packet one-way delay: 5.165 ms  
Loss rate: 0.06%

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



Run 2: Statistics of TCP Vegas

Start at: 2018-10-02 17:00:50

End at: 2018-10-02 17:01:20

Local clock offset: -1.944 ms

Remote clock offset: -0.95 ms

# Below is generated by plot.py at 2018-10-02 18:31:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 5.097 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 52.82 Mbit/s

95th percentile per-packet one-way delay: 4.981 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 49.95 Mbit/s

95th percentile per-packet one-way delay: 4.548 ms

Loss rate: 0.02%

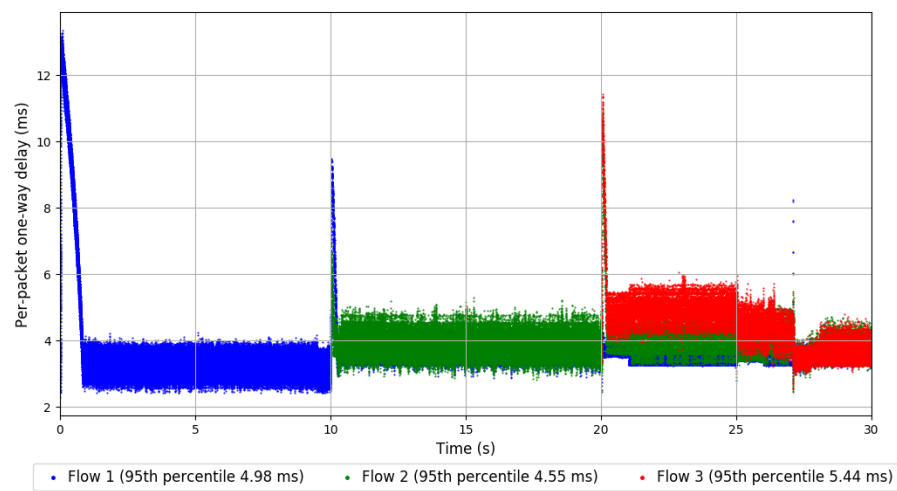
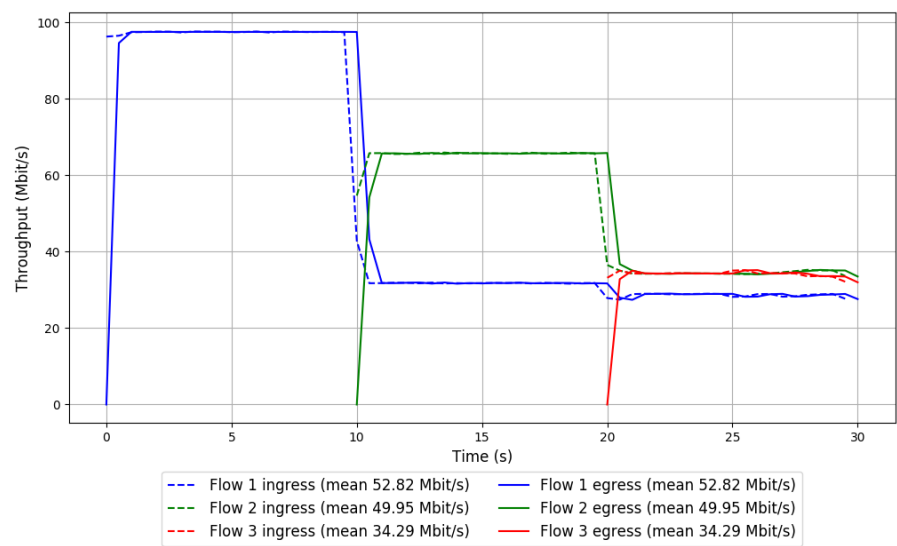
-- Flow 3:

Average throughput: 34.29 Mbit/s

95th percentile per-packet one-way delay: 5.438 ms

Loss rate: 0.06%

Run 2: Report of TCP Vegas — Data Link



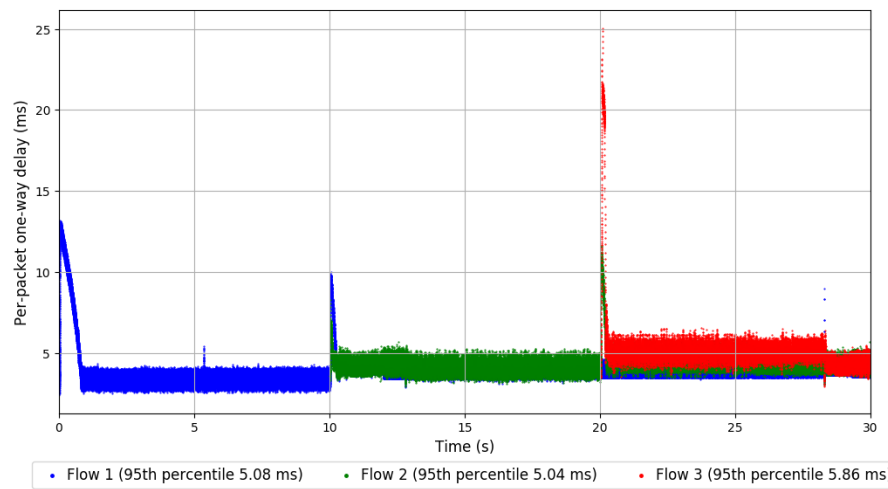
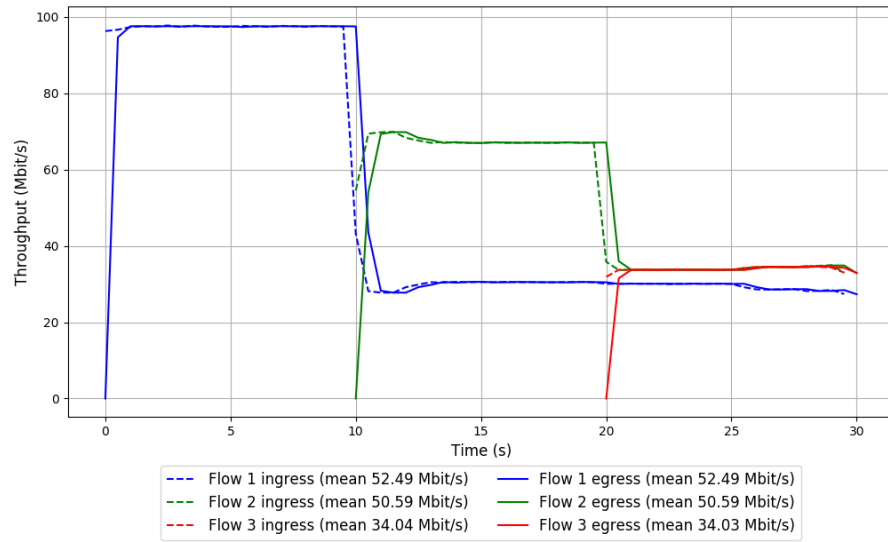


Run 3: Statistics of TCP Vegas

Start at: 2018-10-02 17:21:40  
End at: 2018-10-02 17:22:10  
Local clock offset: -4.169 ms  
Remote clock offset: -0.838 ms

# Below is generated by plot.py at 2018-10-02 18:31:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 5.467 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 52.49 Mbit/s  
95th percentile per-packet one-way delay: 5.081 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 50.59 Mbit/s  
95th percentile per-packet one-way delay: 5.044 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 34.03 Mbit/s  
95th percentile per-packet one-way delay: 5.858 ms  
Loss rate: 0.07%

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

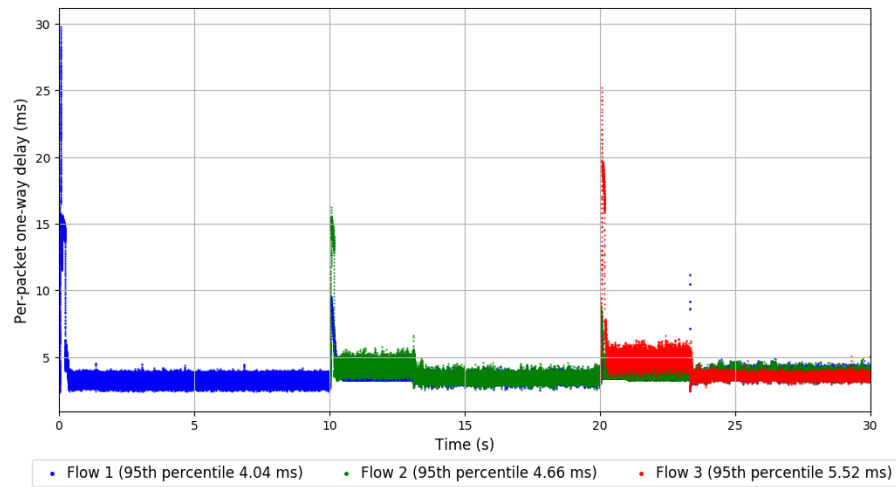
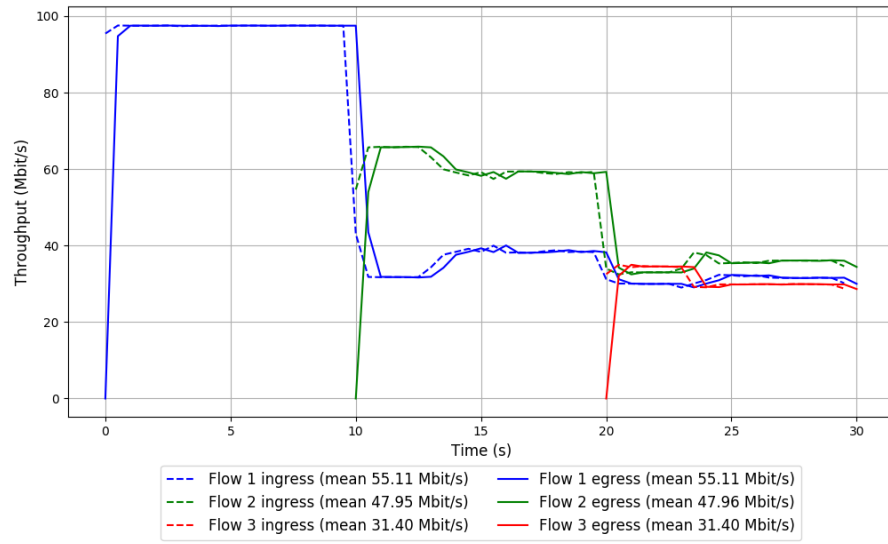


Run 4: Statistics of TCP Vegas

Start at: 2018-10-02 17:42:30  
End at: 2018-10-02 17:43:00  
Local clock offset: -7.121 ms  
Remote clock offset: -0.856 ms

# Below is generated by plot.py at 2018-10-02 18:31:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 4.754 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 55.11 Mbit/s  
95th percentile per-packet one-way delay: 4.036 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 47.96 Mbit/s  
95th percentile per-packet one-way delay: 4.663 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 31.40 Mbit/s  
95th percentile per-packet one-way delay: 5.524 ms  
Loss rate: 0.06%

# Run 4: Report of TCP Vegas — Data Link

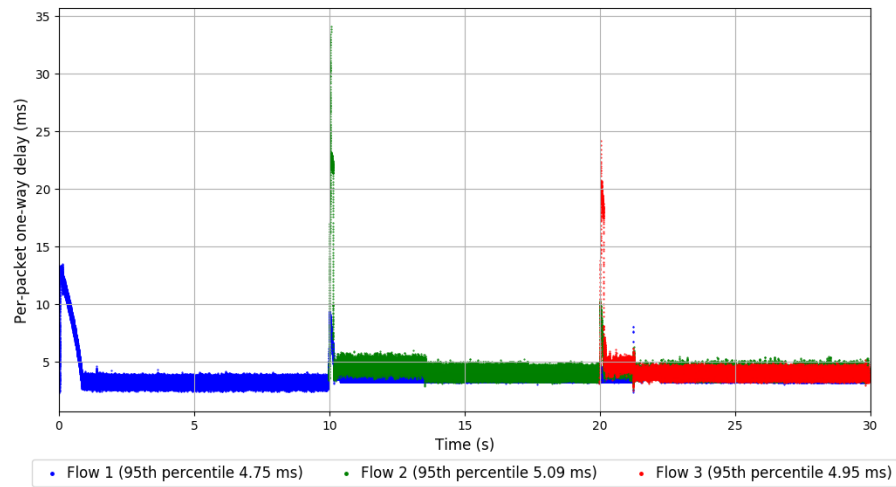
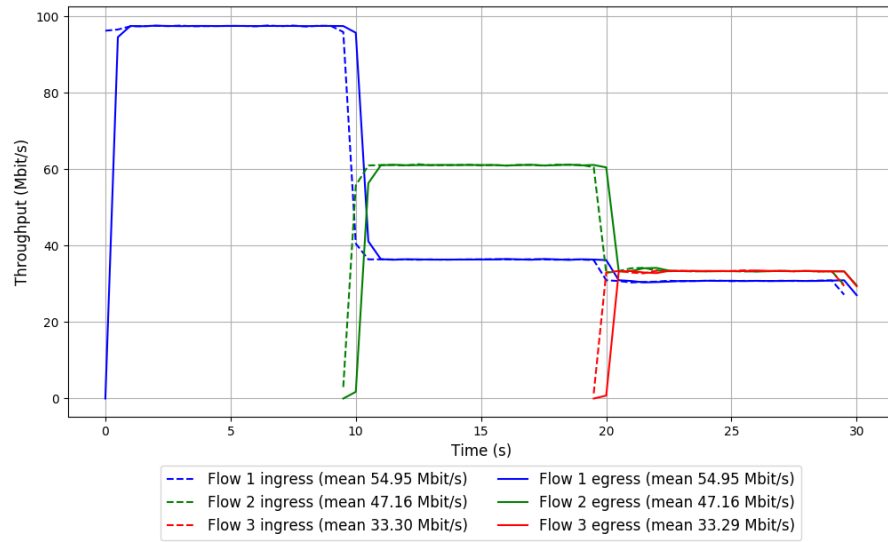


Run 5: Statistics of TCP Vegas

Start at: 2018-10-02 18:03:19  
End at: 2018-10-02 18:03:49  
Local clock offset: -3.211 ms  
Remote clock offset: -0.793 ms

# Below is generated by plot.py at 2018-10-02 18:31:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 5.049 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 54.95 Mbit/s  
95th percentile per-packet one-way delay: 4.749 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 47.16 Mbit/s  
95th percentile per-packet one-way delay: 5.091 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 33.29 Mbit/s  
95th percentile per-packet one-way delay: 4.945 ms  
Loss rate: 0.06%

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

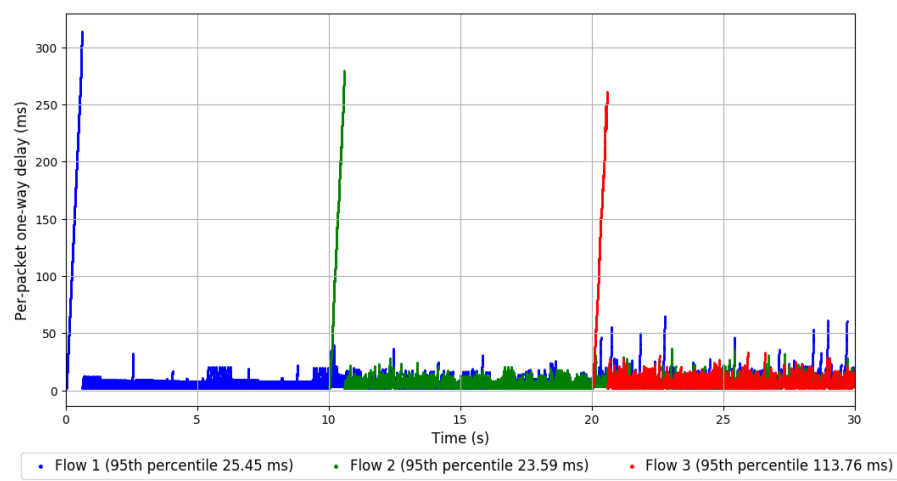
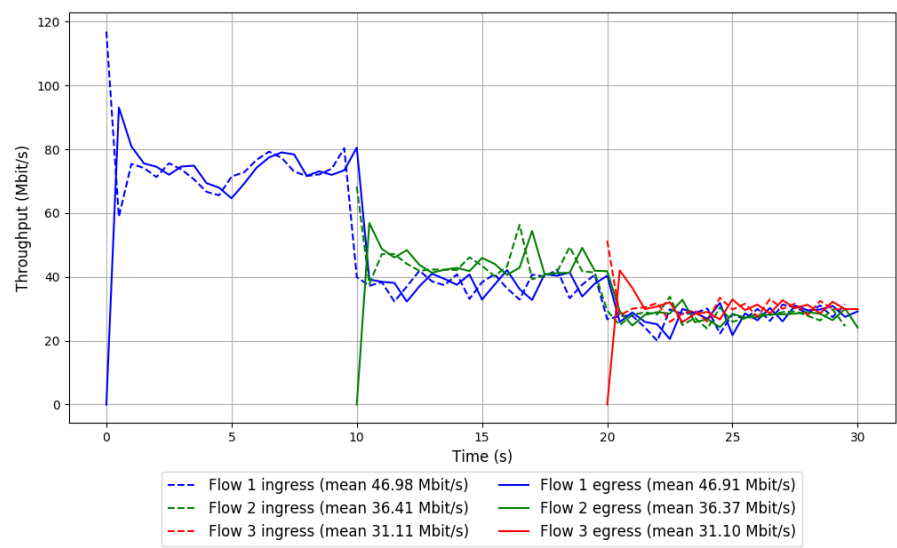


Run 1: Statistics of Verus

Start at: 2018-10-02 16:37:41  
End at: 2018-10-02 16:38:11  
Local clock offset: -2.958 ms  
Remote clock offset: -0.881 ms

# Below is generated by plot.py at 2018-10-02 18:32:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.44 Mbit/s  
95th percentile per-packet one-way delay: 28.185 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 46.91 Mbit/s  
95th percentile per-packet one-way delay: 25.447 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 36.37 Mbit/s  
95th percentile per-packet one-way delay: 23.588 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 31.10 Mbit/s  
95th percentile per-packet one-way delay: 113.759 ms  
Loss rate: 0.05%

Run 1: Report of Verus — Data Link



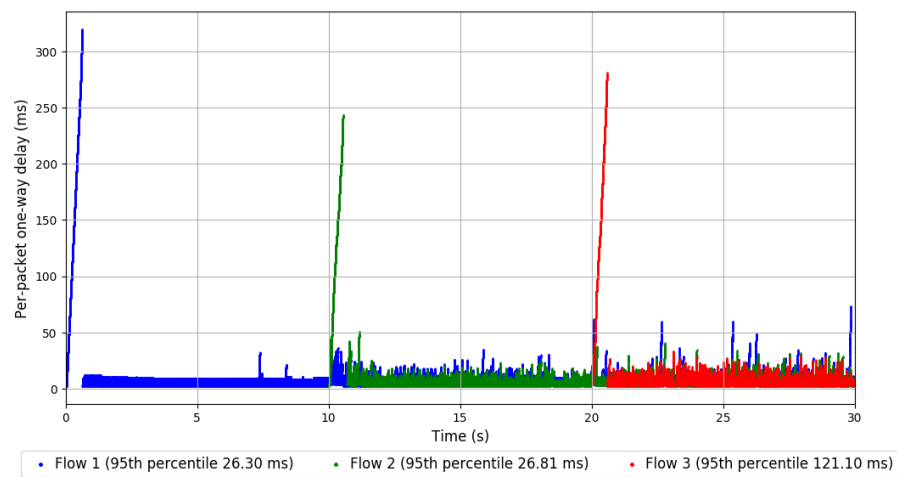
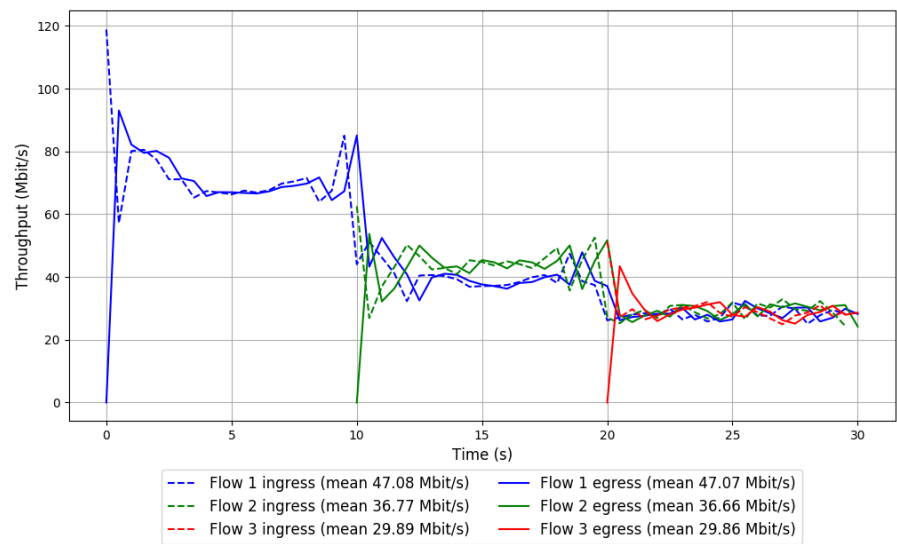


Run 2: Statistics of Verus

Start at: 2018-10-02 16:58:32  
End at: 2018-10-02 16:59:02  
Local clock offset: -2.031 ms  
Remote clock offset: -0.939 ms

# Below is generated by plot.py at 2018-10-02 18:32:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.41 Mbit/s  
95th percentile per-packet one-way delay: 29.056 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 47.07 Mbit/s  
95th percentile per-packet one-way delay: 26.297 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 36.66 Mbit/s  
95th percentile per-packet one-way delay: 26.807 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 29.86 Mbit/s  
95th percentile per-packet one-way delay: 121.100 ms  
Loss rate: 0.12%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-10-02 17:19:21

End at: 2018-10-02 17:19:51

Local clock offset: -3.289 ms

Remote clock offset: -0.8 ms

# Below is generated by plot.py at 2018-10-02 18:32:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.50 Mbit/s

95th percentile per-packet one-way delay: 28.215 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 46.74 Mbit/s

95th percentile per-packet one-way delay: 24.176 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 34.36 Mbit/s

95th percentile per-packet one-way delay: 28.638 ms

Loss rate: 0.01%

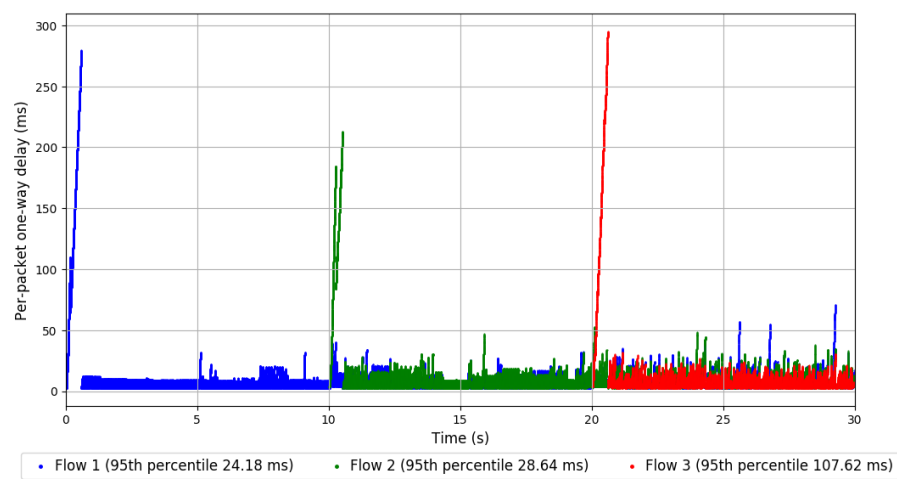
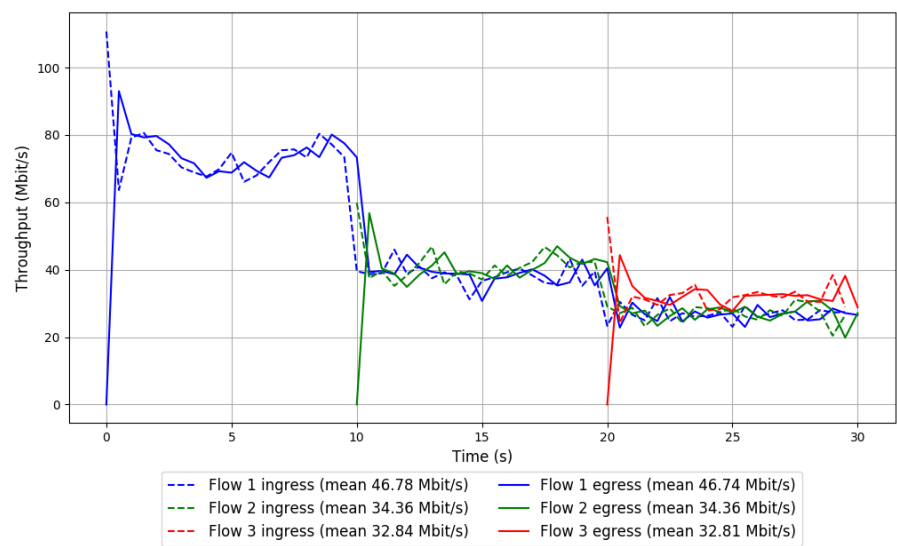
-- Flow 3:

Average throughput: 32.81 Mbit/s

95th percentile per-packet one-way delay: 107.623 ms

Loss rate: 0.12%

Run 3: Report of Verus — Data Link

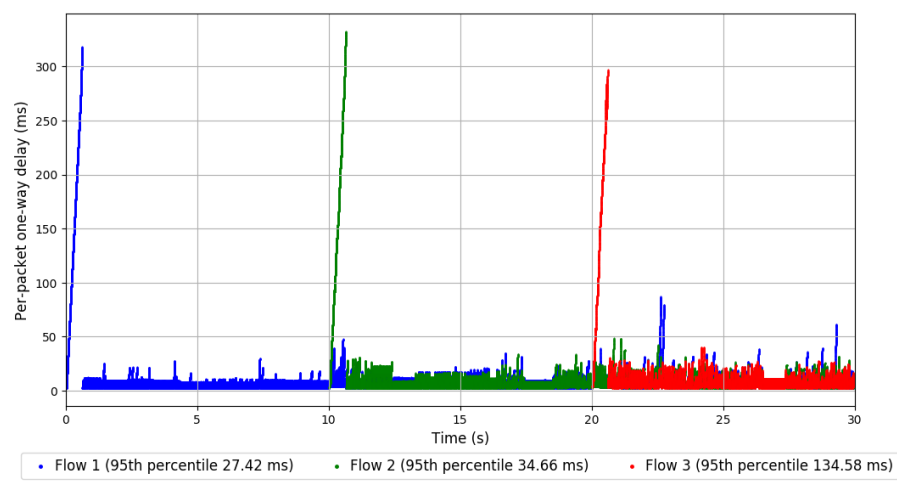
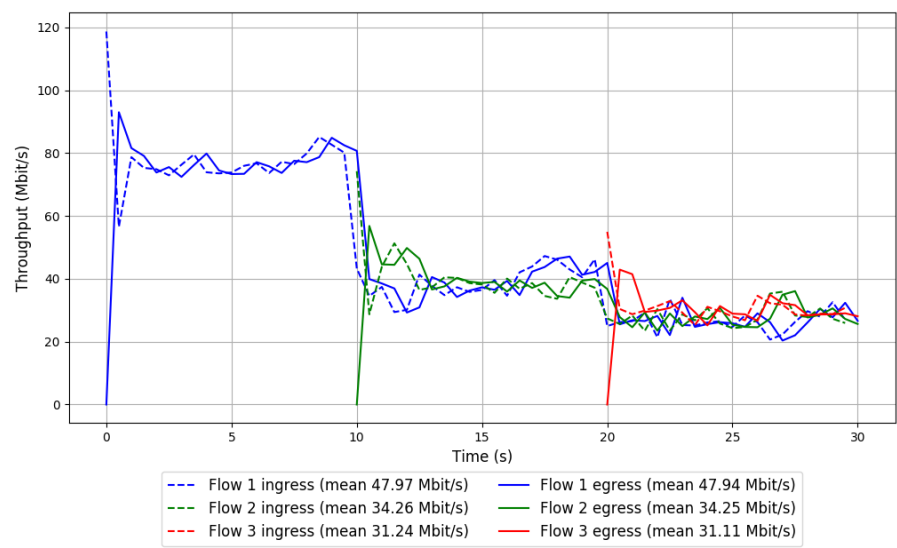


Run 4: Statistics of Verus

Start at: 2018-10-02 17:40:11  
End at: 2018-10-02 17:40:41  
Local clock offset: -7.05 ms  
Remote clock offset: -0.783 ms

# Below is generated by plot.py at 2018-10-02 18:32:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.08 Mbit/s  
95th percentile per-packet one-way delay: 33.581 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 47.94 Mbit/s  
95th percentile per-packet one-way delay: 27.421 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 34.25 Mbit/s  
95th percentile per-packet one-way delay: 34.662 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 31.11 Mbit/s  
95th percentile per-packet one-way delay: 134.582 ms  
Loss rate: 0.47%

Run 4: Report of Verus — Data Link

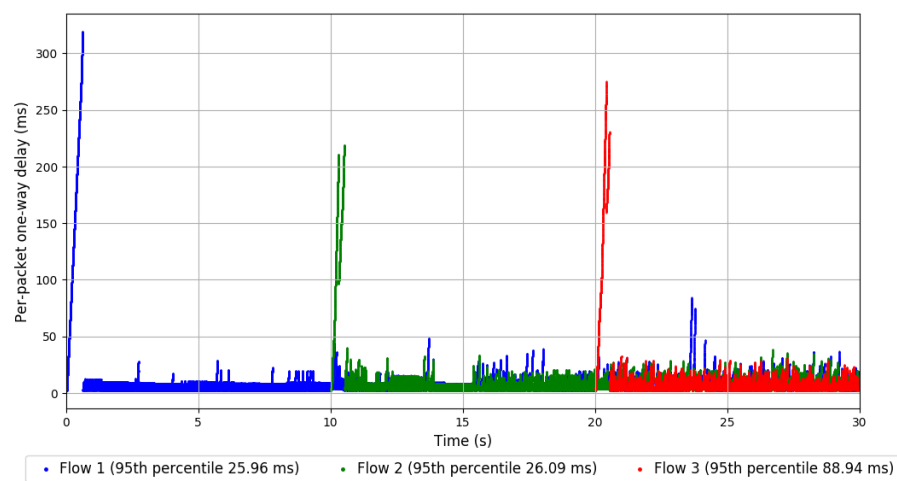
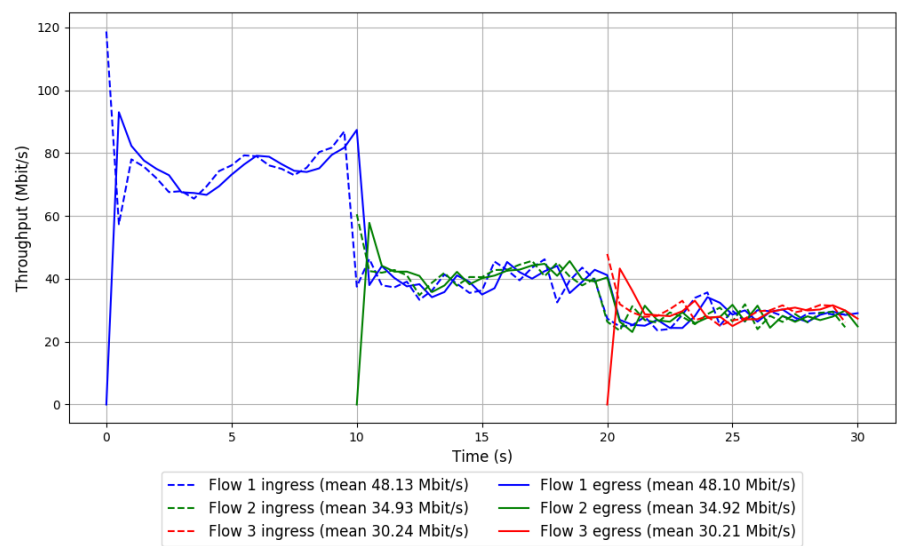


Run 5: Statistics of Verus

Start at: 2018-10-02 18:01:00  
End at: 2018-10-02 18:01:30  
Local clock offset: -3.446 ms  
Remote clock offset: -0.793 ms

# Below is generated by plot.py at 2018-10-02 18:32:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.40 Mbit/s  
95th percentile per-packet one-way delay: 27.551 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 48.10 Mbit/s  
95th percentile per-packet one-way delay: 25.960 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 34.92 Mbit/s  
95th percentile per-packet one-way delay: 26.090 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 30.21 Mbit/s  
95th percentile per-packet one-way delay: 88.939 ms  
Loss rate: 0.13%

Run 5: Report of Verus — Data Link



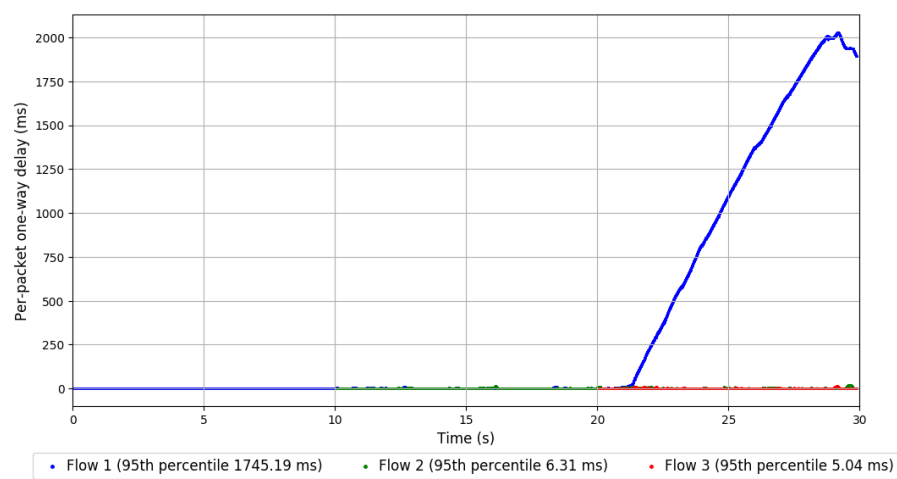
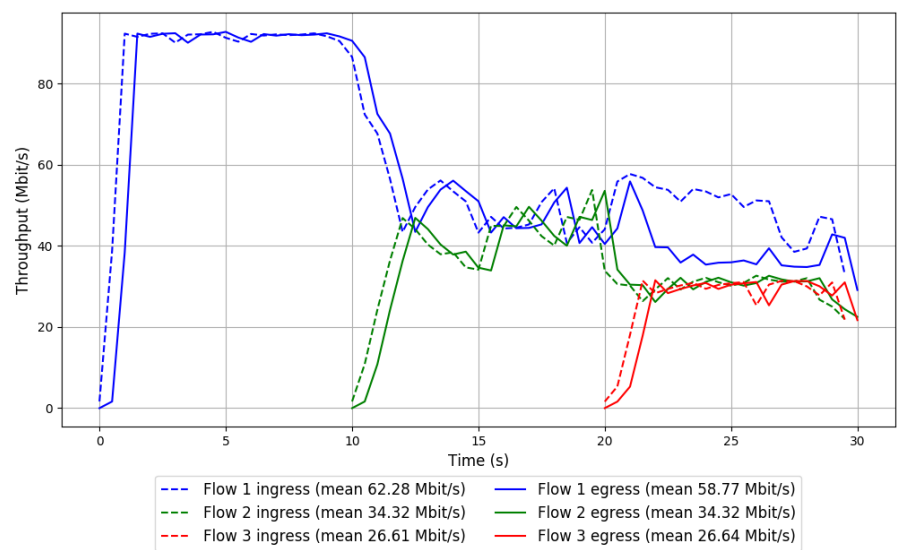


Run 1: Statistics of PCC-Vivace

Start at: 2018-10-02 16:43:29  
End at: 2018-10-02 16:43:59  
Local clock offset: -2.527 ms  
Remote clock offset: -0.925 ms

# Below is generated by plot.py at 2018-10-02 18:32:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.40 Mbit/s  
95th percentile per-packet one-way delay: 1401.706 ms  
Loss rate: 3.76%  
-- Flow 1:  
Average throughput: 58.77 Mbit/s  
95th percentile per-packet one-way delay: 1745.188 ms  
Loss rate: 5.65%  
-- Flow 2:  
Average throughput: 34.32 Mbit/s  
95th percentile per-packet one-way delay: 6.308 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 26.64 Mbit/s  
95th percentile per-packet one-way delay: 5.039 ms  
Loss rate: 0.06%

Run 1: Report of PCC-Vivace — Data Link

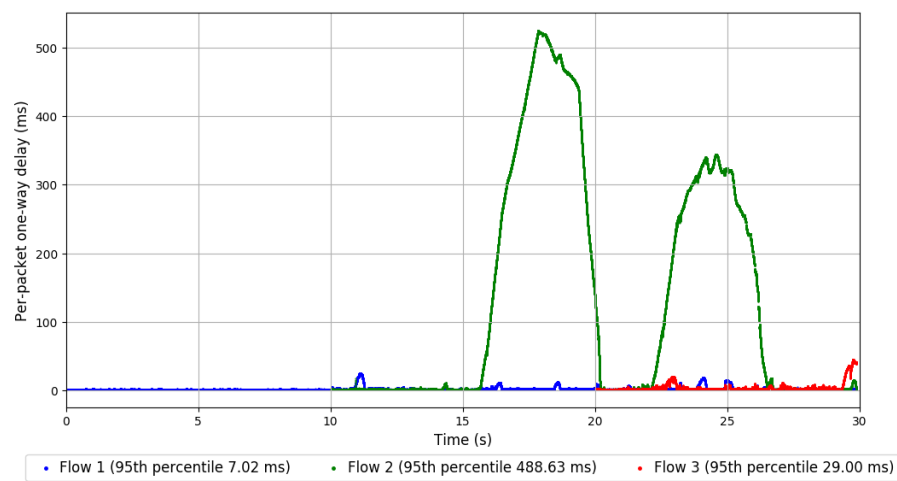
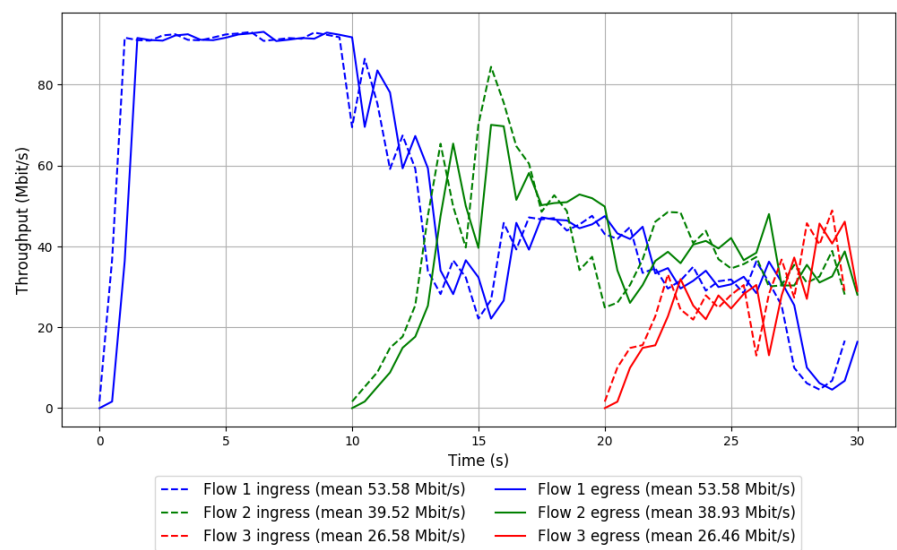


Run 2: Statistics of PCC-Vivace

Start at: 2018-10-02 17:04:20  
End at: 2018-10-02 17:04:50  
Local clock offset: -1.883 ms  
Remote clock offset: -0.845 ms

# Below is generated by plot.py at 2018-10-02 18:32:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.21 Mbit/s  
95th percentile per-packet one-way delay: 343.656 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 53.58 Mbit/s  
95th percentile per-packet one-way delay: 7.022 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 38.93 Mbit/s  
95th percentile per-packet one-way delay: 488.635 ms  
Loss rate: 1.50%  
-- Flow 3:  
Average throughput: 26.46 Mbit/s  
95th percentile per-packet one-way delay: 28.998 ms  
Loss rate: 0.51%

Run 2: Report of PCC-Vivace — Data Link

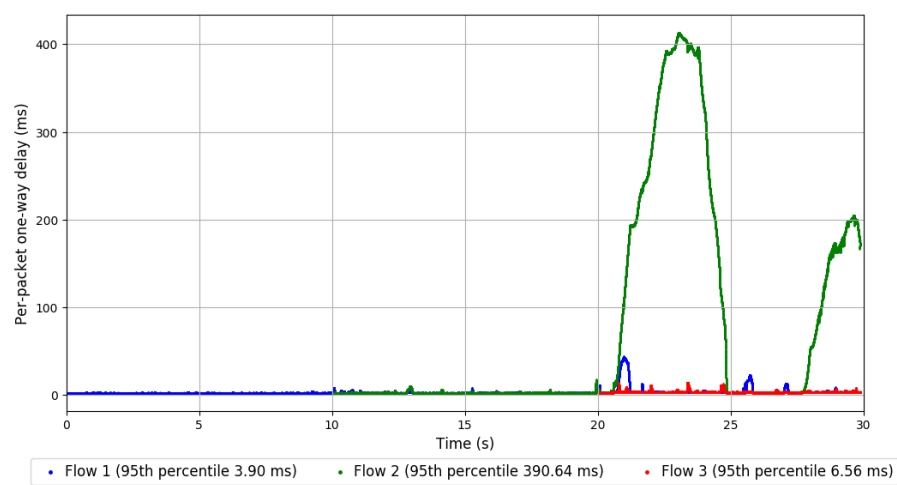
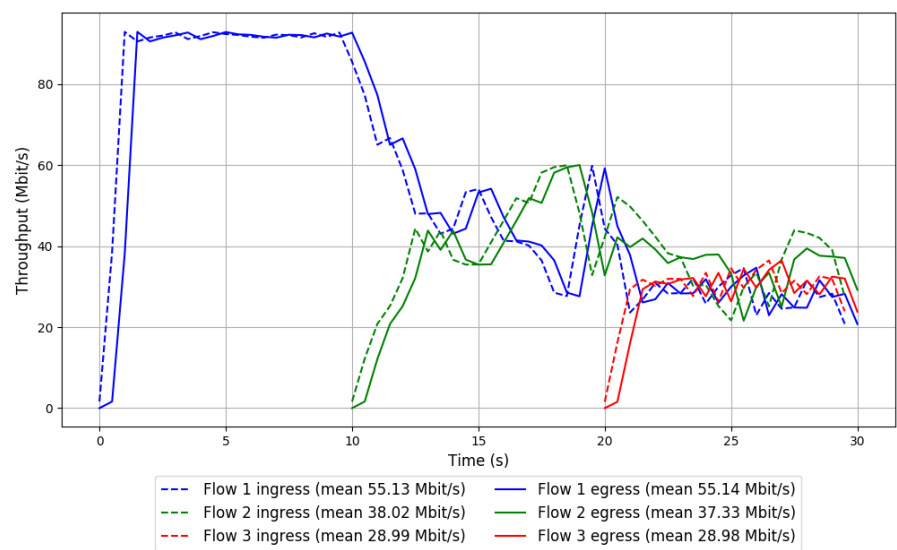


Run 3: Statistics of PCC-Vivace

Start at: 2018-10-02 17:25:09  
End at: 2018-10-02 17:25:39  
Local clock offset: -5.06 ms  
Remote clock offset: -0.784 ms

# Below is generated by plot.py at 2018-10-02 18:32:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.51 Mbit/s  
95th percentile per-packet one-way delay: 192.845 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 55.14 Mbit/s  
95th percentile per-packet one-way delay: 3.905 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 37.33 Mbit/s  
95th percentile per-packet one-way delay: 390.643 ms  
Loss rate: 1.81%  
-- Flow 3:  
Average throughput: 28.98 Mbit/s  
95th percentile per-packet one-way delay: 6.563 ms  
Loss rate: 0.06%

Run 3: Report of PCC-Vivace — Data Link

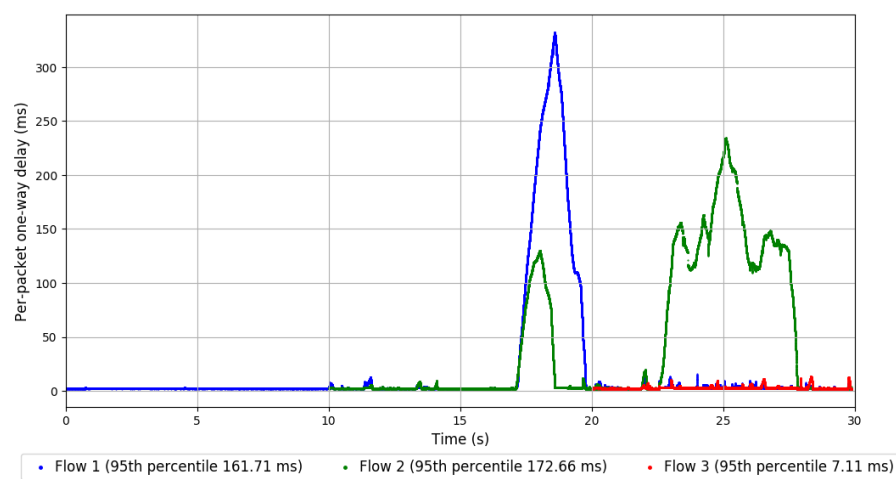
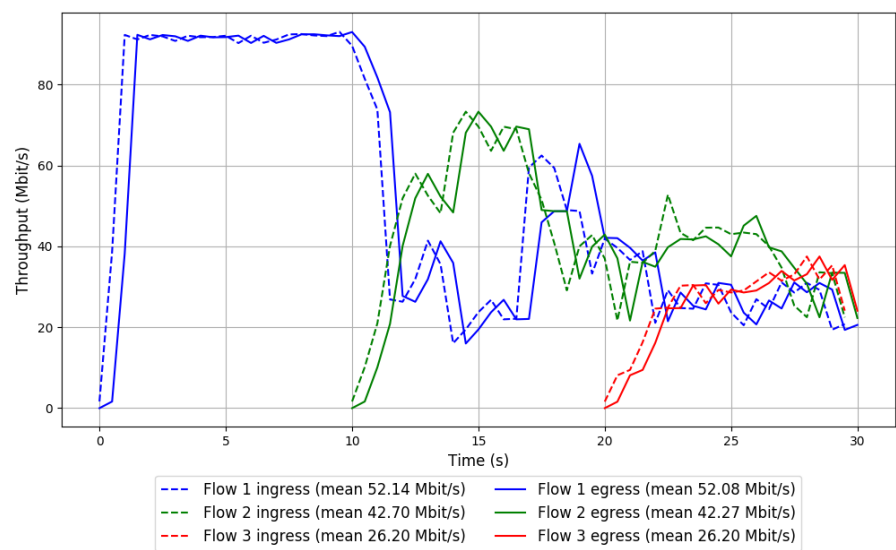


Run 4: Statistics of PCC-Vivace

Start at: 2018-10-02 17:45:59  
End at: 2018-10-02 17:46:29  
Local clock offset: -7.101 ms  
Remote clock offset: -0.804 ms

# Below is generated by plot.py at 2018-10-02 18:32:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.84 Mbit/s  
95th percentile per-packet one-way delay: 156.301 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 52.08 Mbit/s  
95th percentile per-packet one-way delay: 161.710 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 42.27 Mbit/s  
95th percentile per-packet one-way delay: 172.656 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 26.20 Mbit/s  
95th percentile per-packet one-way delay: 7.112 ms  
Loss rate: 0.03%

Run 4: Report of PCC-Vivace — Data Link



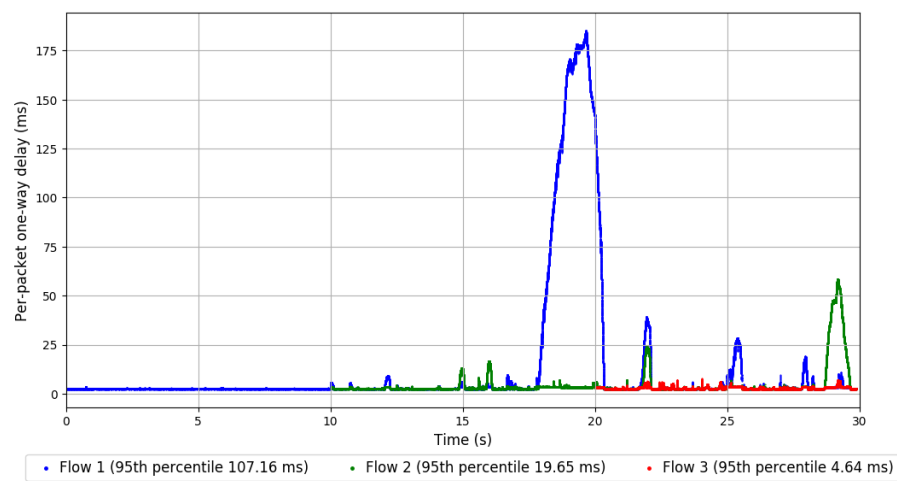
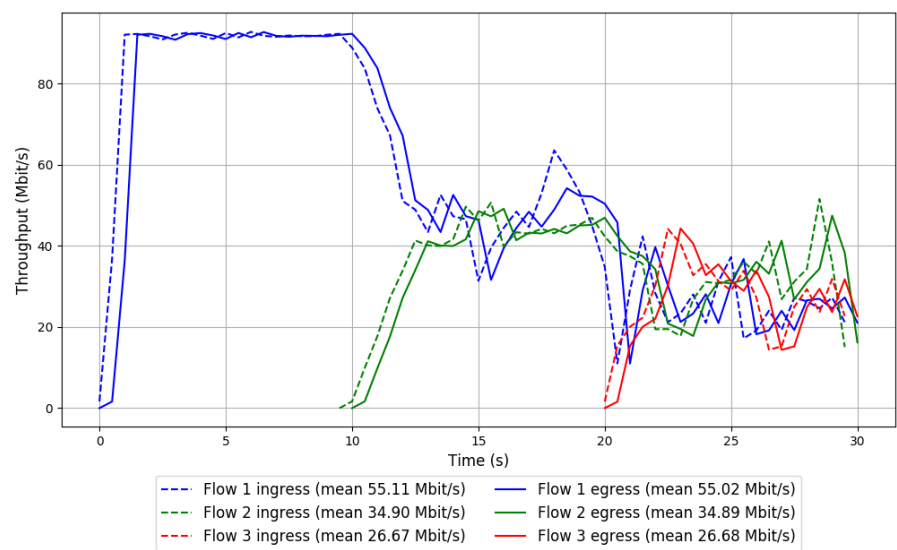


Run 5: Statistics of PCC-Vivace

Start at: 2018-10-02 18:06:48  
End at: 2018-10-02 18:07:18  
Local clock offset: -2.954 ms  
Remote clock offset: -0.845 ms

# Below is generated by plot.py at 2018-10-02 18:32:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.03 Mbit/s  
95th percentile per-packet one-way delay: 41.658 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 55.02 Mbit/s  
95th percentile per-packet one-way delay: 107.155 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 34.89 Mbit/s  
95th percentile per-packet one-way delay: 19.646 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 26.68 Mbit/s  
95th percentile per-packet one-way delay: 4.639 ms  
Loss rate: 0.05%

Run 5: Report of PCC-Vivace — Data Link

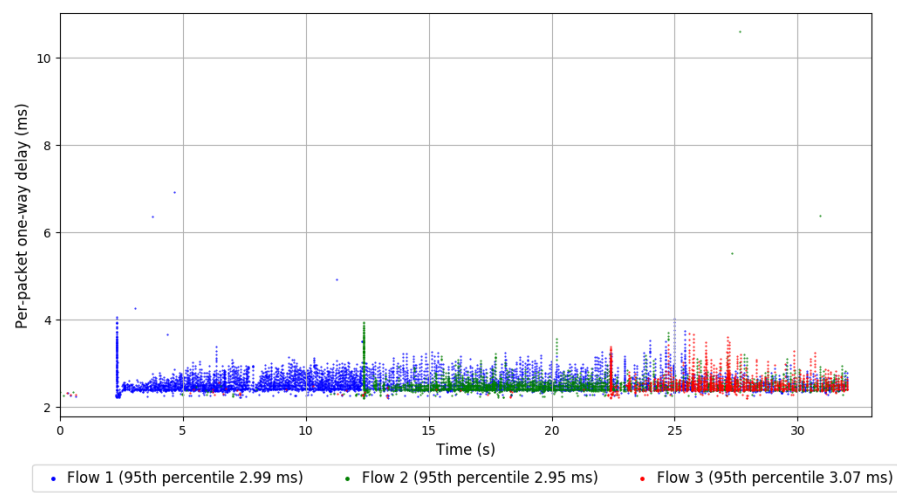
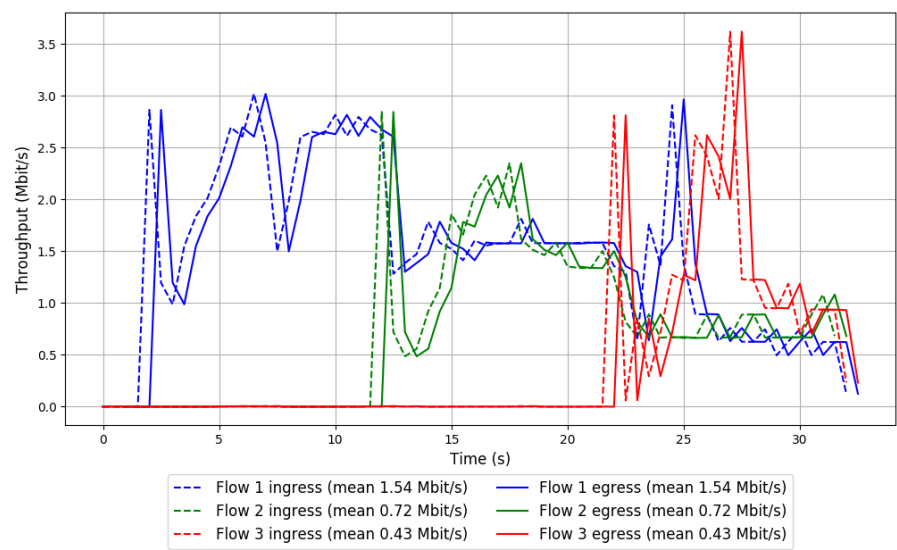


Run 1: Statistics of WebRTC media

Start at: 2018-10-02 16:51:33  
End at: 2018-10-02 16:52:03  
Local clock offset: -2.258 ms  
Remote clock offset: -0.993 ms

# Below is generated by plot.py at 2018-10-02 18:32:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.67 Mbit/s  
95th percentile per-packet one-way delay: 3.001 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.54 Mbit/s  
95th percentile per-packet one-way delay: 2.991 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.72 Mbit/s  
95th percentile per-packet one-way delay: 2.954 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 3.074 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

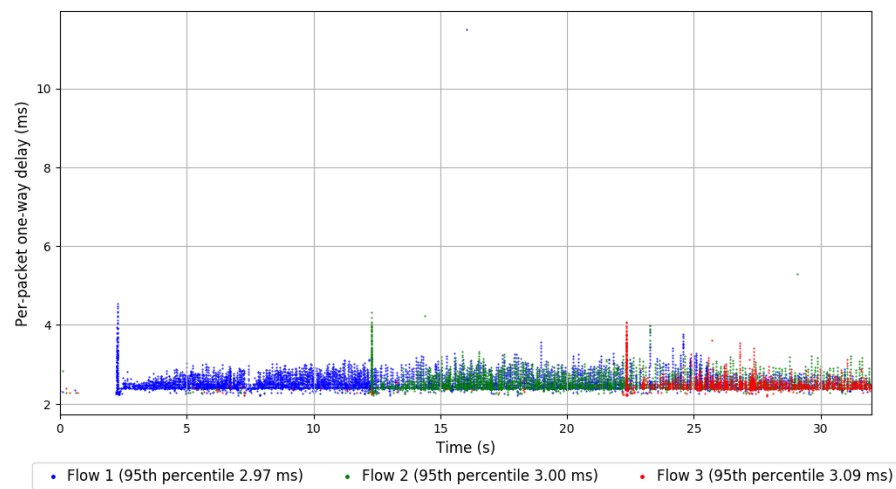
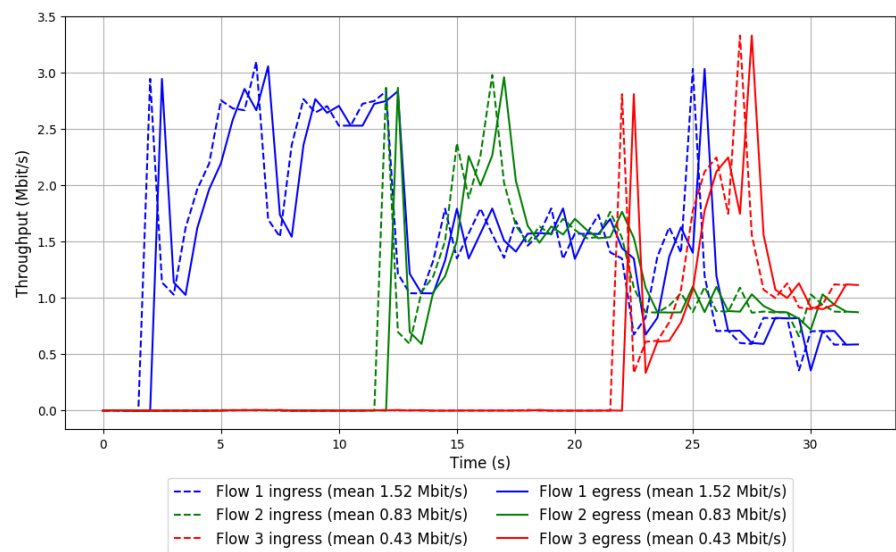


Run 2: Statistics of WebRTC media

Start at: 2018-10-02 17:12:22  
End at: 2018-10-02 17:12:52  
Local clock offset: -1.481 ms  
Remote clock offset: -0.829 ms

# Below is generated by plot.py at 2018-10-02 18:32:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.77 Mbit/s  
95th percentile per-packet one-way delay: 2.990 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.52 Mbit/s  
95th percentile per-packet one-way delay: 2.974 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.83 Mbit/s  
95th percentile per-packet one-way delay: 3.005 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 3.089 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

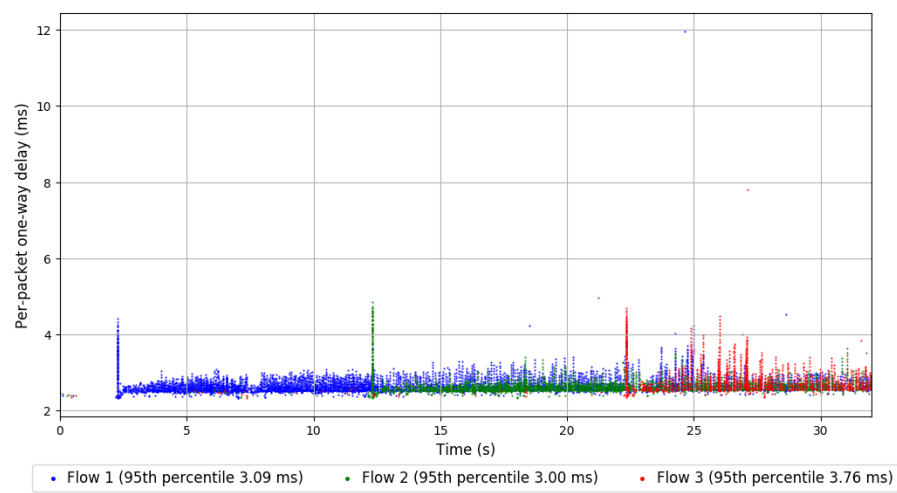
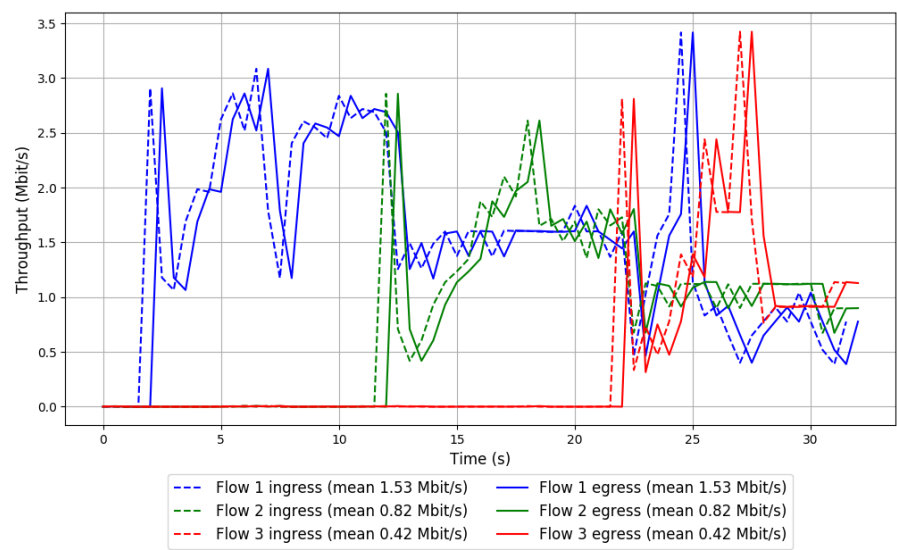


Run 3: Statistics of WebRTC media

Start at: 2018-10-02 17:33:12  
End at: 2018-10-02 17:33:42  
Local clock offset: -6.366 ms  
Remote clock offset: -0.858 ms

# Below is generated by plot.py at 2018-10-02 18:32:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.75 Mbit/s  
95th percentile per-packet one-way delay: 3.203 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.53 Mbit/s  
95th percentile per-packet one-way delay: 3.089 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.82 Mbit/s  
95th percentile per-packet one-way delay: 2.997 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 3.756 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



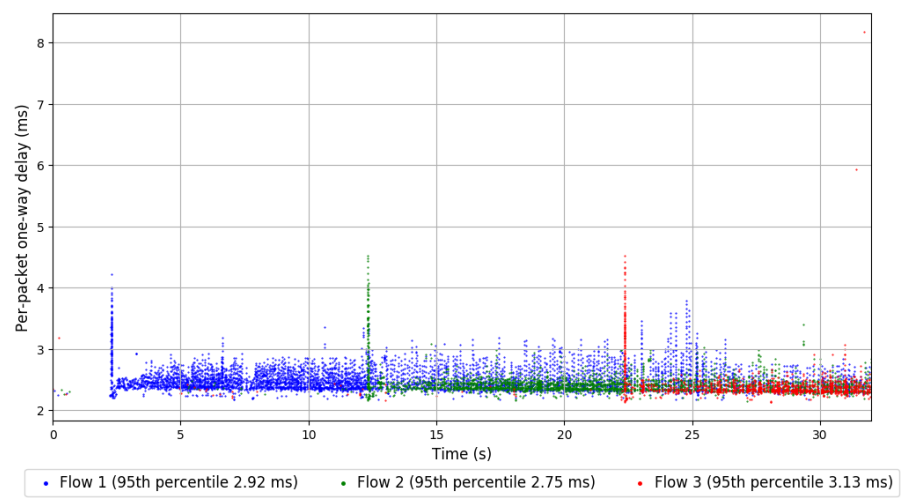
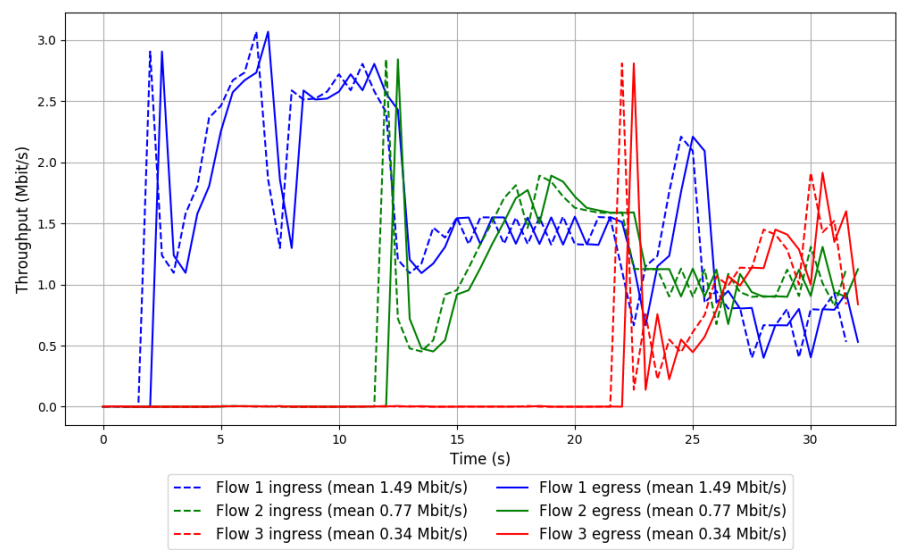


Run 4: Statistics of WebRTC media

Start at: 2018-10-02 17:54:02  
End at: 2018-10-02 17:54:32  
Local clock offset: -4.493 ms  
Remote clock offset: -0.871 ms

# Below is generated by plot.py at 2018-10-02 18:32:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.58 Mbit/s  
95th percentile per-packet one-way delay: 2.894 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.49 Mbit/s  
95th percentile per-packet one-way delay: 2.916 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.77 Mbit/s  
95th percentile per-packet one-way delay: 2.753 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.34 Mbit/s  
95th percentile per-packet one-way delay: 3.130 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-10-02 18:14:50  
End at: 2018-10-02 18:15:20  
Local clock offset: -2.583 ms  
Remote clock offset: -0.775 ms

# Below is generated by plot.py at 2018-10-02 18:32:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.70 Mbit/s  
95th percentile per-packet one-way delay: 3.068 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.52 Mbit/s  
95th percentile per-packet one-way delay: 3.050 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.85 Mbit/s  
95th percentile per-packet one-way delay: 3.151 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.34 Mbit/s  
95th percentile per-packet one-way delay: 2.717 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

