

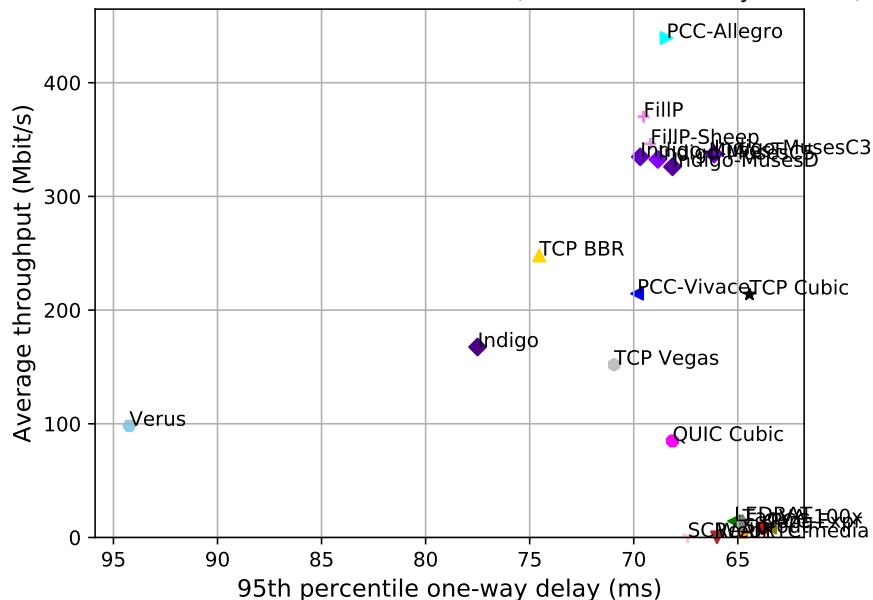
Pantheon Report

Generated at 2019-06-27 11:10:33 (UTC).
Data path: AWS India 2 on `ens5` (*local*) → Saudi Arabia on `enp2s0` (*remote*).
Repeated the test of 22 congestion control schemes 5 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

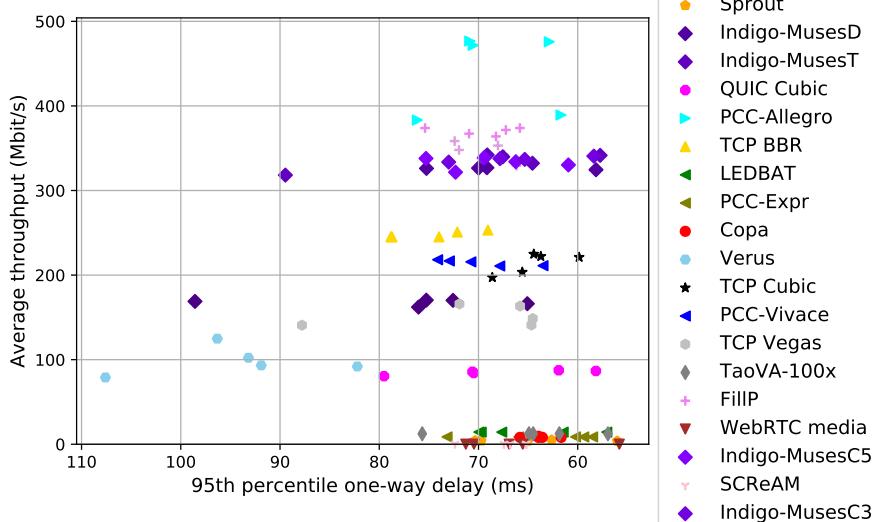
```
System info:  
Linux 4.15.0-1039-aws  
net.core.default_qdisc = fq  
net.core.rmem_default = 16777216  
net.core.rmem_max = 536870912  
net.core.wmem_default = 16777216  
net.core.wmem_max = 536870912  
net.ipv4.tcp_rmem = 4096 16777216 536870912  
net.ipv4.tcp_wmem = 4096 16777216 536870912  
  
Git summary:  
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef  
third_party/fillp @ d6da1459332fceef56963885d7eba17e6a32d4519  
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9  
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4  
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d  
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf  
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966  
third_party/muses_dtree @ 11c9498ecb1596b02cc896791a02d03172af7ed  
M helpers/__init__.pyc  
M helpers/context.pyc  
M helpers/utils.pyc  
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd  
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1  
M receiver/src/buffer.h  
M receiver/src/core.cpp  
M sender/src/buffer.h  
M sender/src/core.cpp  
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab  
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42  
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2  
M src/ScreamClient  
M src/ScreamServer  
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26  
M src/examples/cellsim.cc  
M src/examples/sproutbt2.cc
```

```
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from AWS India 2 to Saudi Arabia, 5 runs of 30s each per scheme
3 flows with 10s interval between flows



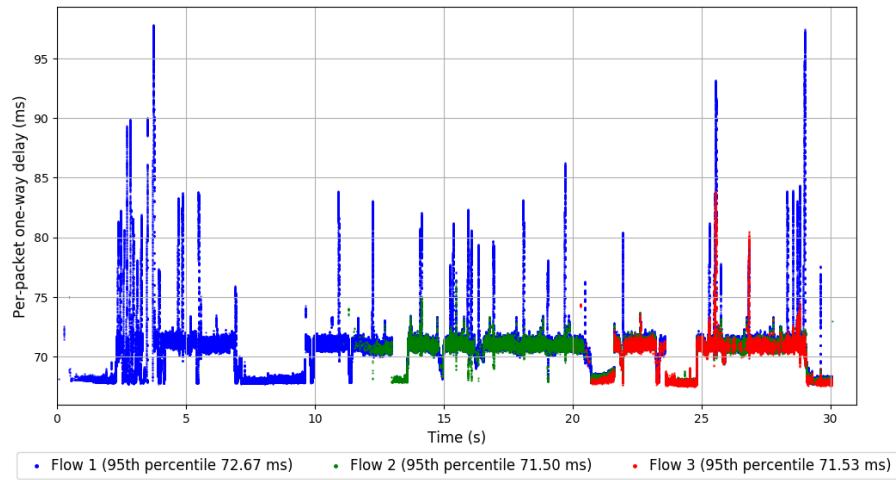
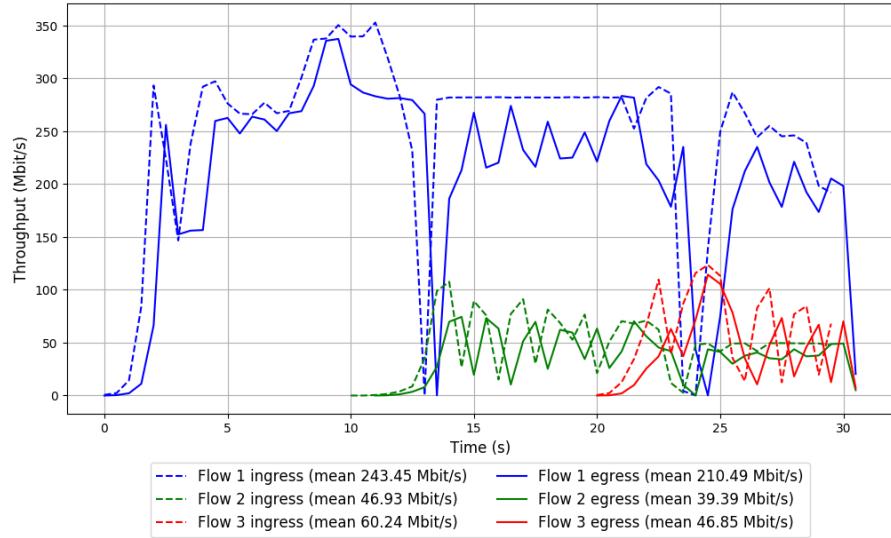
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	208.30	39.61	41.42	75.14	68.67	71.44	12.69	20.37	21.17
Copa	5	2.48	10.48	3.44	65.43	63.91	62.64	60.58	63.73	71.69
TCP Cubic	5	126.60	95.10	71.50	64.71	63.51	63.77	1.56	1.35	1.65
FillP	5	248.41	135.32	96.21	69.19	69.71	69.49	21.91	24.95	21.92
FillP-Sheep	5	233.67	116.13	106.77	69.10	69.20	69.24	14.35	12.21	14.78
Indigo	5	83.19	93.76	69.82	74.64	83.07	68.37	10.62	18.42	23.92
Indigo-MusesC3	4	306.39	37.71	21.73	66.32	65.61	65.39	14.22	10.09	10.86
Indigo-MusesC5	5	331.23	0.89	2.31	68.86	67.49	67.71	26.34	30.14	30.28
Indigo-MusesD	4	296.17	35.89	21.93	68.26	67.78	67.80	12.93	9.61	12.12
Indigo-MusesT	5	301.13	34.91	37.24	69.57	70.71	71.56	10.94	9.52	9.74
LEDBAT	5	9.27	6.14	2.97	65.22	65.25	64.50	0.00	0.00	0.00
Muses.DecisionTree	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCC-Allegro	5	393.61	39.51	59.11	68.43	68.22	68.49	4.37	1.86	3.01
PCC-Expr	5	0.01	11.44	3.17	63.24	63.43	63.49	83.43	35.61	48.21
QUIC Cubic	5	51.31	37.87	26.17	67.15	68.83	70.40	0.02	0.01	0.01
SCReAM	5	0.22	0.22	0.22	67.45	67.10	67.32	0.00	0.00	0.00
Sprout	5	2.40	1.96	1.49	64.77	64.60	64.27	0.00	0.00	0.00
TaoVA-100x	5	7.43	4.45	6.06	68.61	62.45	63.39	34.14	44.32	63.97
TCP Vegas	5	79.66	57.70	101.74	70.71	70.87	73.60	1.77	2.07	2.37
Verus	5	65.83	39.76	39.02	96.17	87.68	77.88	53.43	42.21	34.41
PCC-Vivace	5	187.51	34.78	11.62	69.84	69.67	69.78	1.26	0.68	1.06
WebRTC media	5	0.05	0.05	0.05	66.17	66.01	65.98	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-06-27 07:48:47
End at: 2019-06-27 07:49:17
Local clock offset: -0.282 ms
Remote clock offset: -33.91 ms

# Below is generated by plot.py at 2019-06-27 10:44:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 250.92 Mbit/s
95th percentile per-packet one-way delay: 72.131 ms
Loss rate: 14.85%
-- Flow 1:
Average throughput: 210.49 Mbit/s
95th percentile per-packet one-way delay: 72.675 ms
Loss rate: 13.54%
-- Flow 2:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 71.502 ms
Loss rate: 20.32%
-- Flow 3:
Average throughput: 46.85 Mbit/s
95th percentile per-packet one-way delay: 71.530 ms
Loss rate: 22.26%
```

Run 1: Report of TCP BBR — Data Link

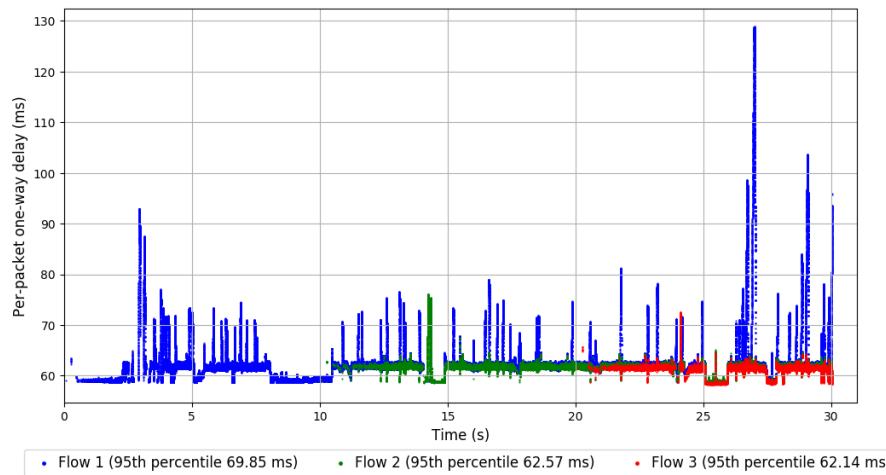
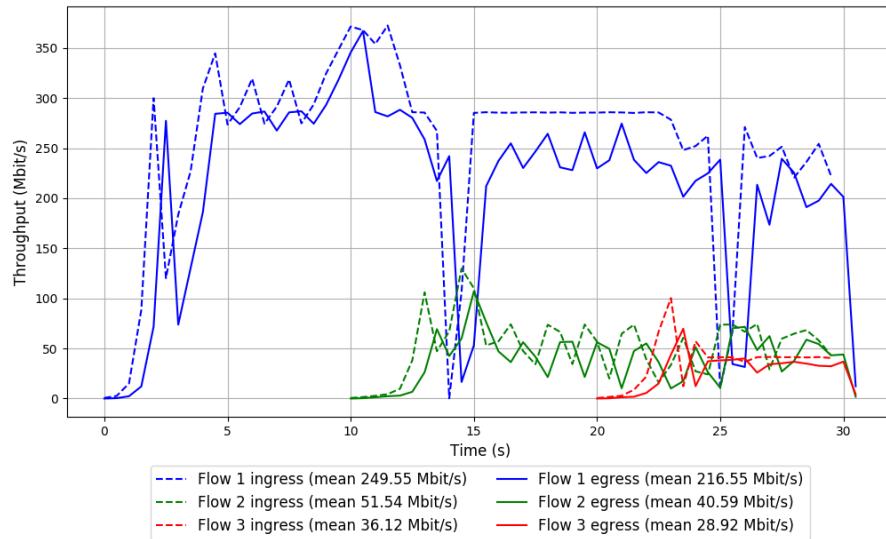


Run 2: Statistics of TCP BBR

```
Start at: 2019-06-27 08:20:35
End at: 2019-06-27 08:21:05
Local clock offset: 0.674 ms
Remote clock offset: -42.022 ms

# Below is generated by plot.py at 2019-06-27 10:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.19 Mbit/s
95th percentile per-packet one-way delay: 69.055 ms
Loss rate: 14.42%
-- Flow 1:
Average throughput: 216.55 Mbit/s
95th percentile per-packet one-way delay: 69.850 ms
Loss rate: 13.22%
-- Flow 2:
Average throughput: 40.59 Mbit/s
95th percentile per-packet one-way delay: 62.568 ms
Loss rate: 21.25%
-- Flow 3:
Average throughput: 28.92 Mbit/s
95th percentile per-packet one-way delay: 62.139 ms
Loss rate: 19.95%
```

Run 2: Report of TCP BBR — Data Link

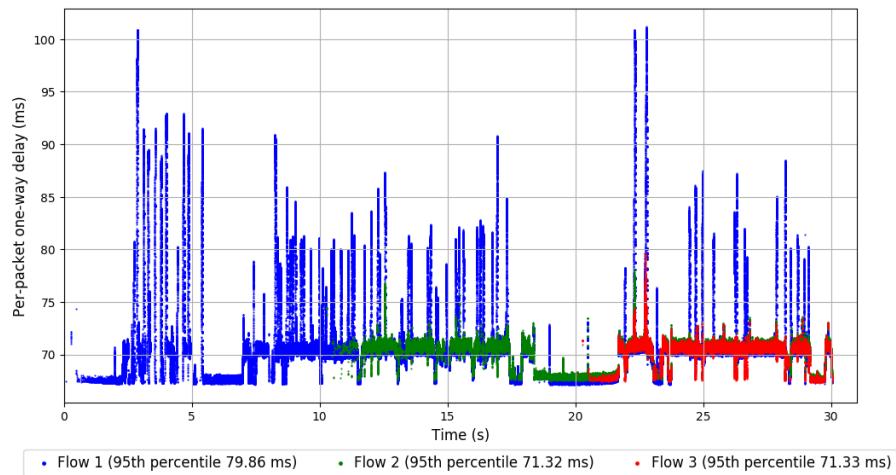
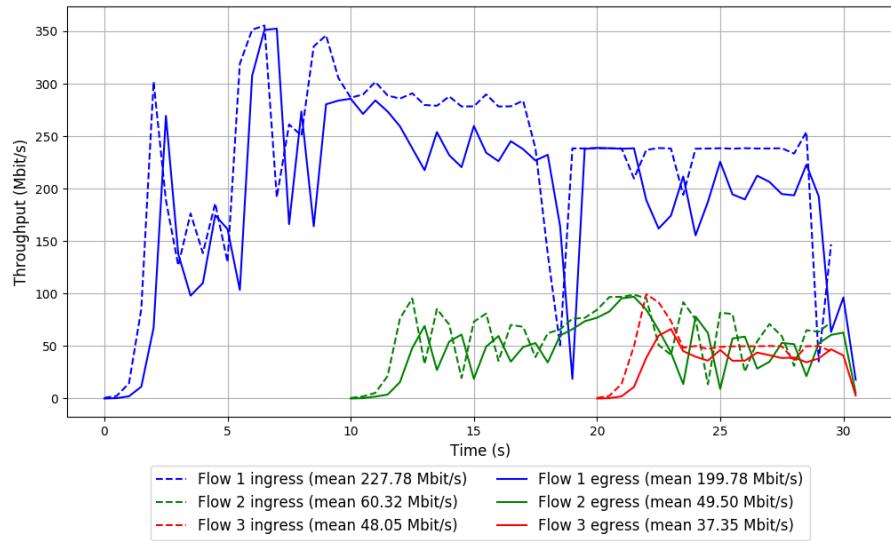


Run 3: Statistics of TCP BBR

```
Start at: 2019-06-27 09:01:52
End at: 2019-06-27 09:02:22
Local clock offset: -0.42 ms
Remote clock offset: -34.611 ms

# Below is generated by plot.py at 2019-06-27 10:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.17 Mbit/s
95th percentile per-packet one-way delay: 78.718 ms
Loss rate: 13.66%
-- Flow 1:
Average throughput: 199.78 Mbit/s
95th percentile per-packet one-way delay: 79.855 ms
Loss rate: 12.30%
-- Flow 2:
Average throughput: 49.50 Mbit/s
95th percentile per-packet one-way delay: 71.320 ms
Loss rate: 17.94%
-- Flow 3:
Average throughput: 37.35 Mbit/s
95th percentile per-packet one-way delay: 71.331 ms
Loss rate: 22.27%
```

Run 3: Report of TCP BBR — Data Link

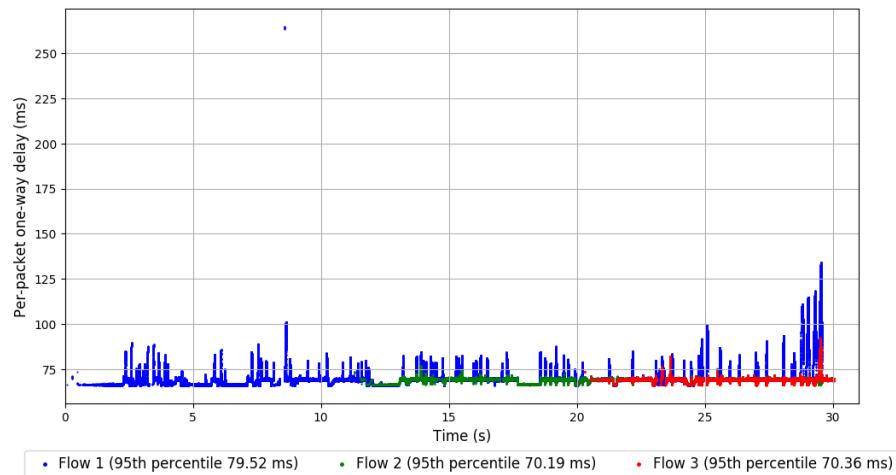
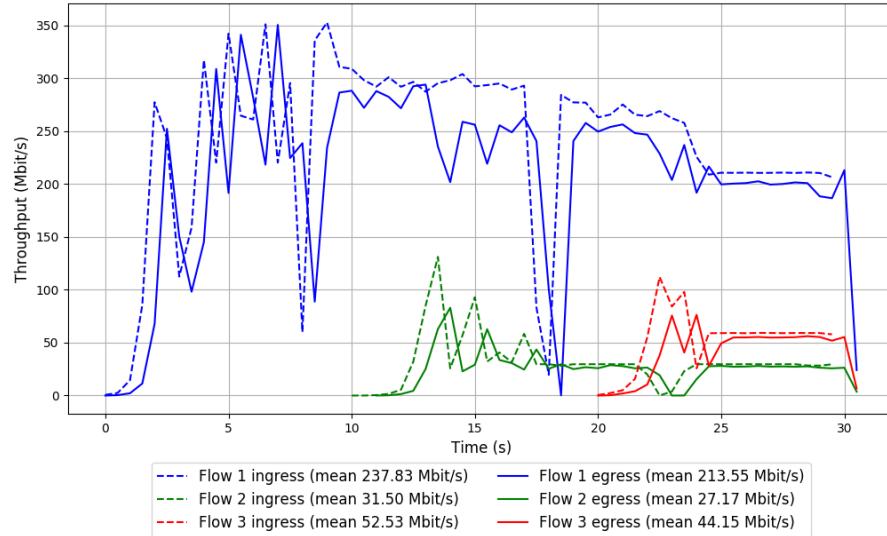


Run 4: Statistics of TCP BBR

```
Start at: 2019-06-27 09:33:51
End at: 2019-06-27 09:34:21
Local clock offset: -1.197 ms
Remote clock offset: -35.796 ms

# Below is generated by plot.py at 2019-06-27 10:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.40 Mbit/s
95th percentile per-packet one-way delay: 78.824 ms
Loss rate: 11.17%
-- Flow 1:
Average throughput: 213.55 Mbit/s
95th percentile per-packet one-way delay: 79.521 ms
Loss rate: 10.20%
-- Flow 2:
Average throughput: 27.17 Mbit/s
95th percentile per-packet one-way delay: 70.190 ms
Loss rate: 18.18%
-- Flow 3:
Average throughput: 44.15 Mbit/s
95th percentile per-packet one-way delay: 70.363 ms
Loss rate: 15.95%
```

Run 4: Report of TCP BBR — Data Link

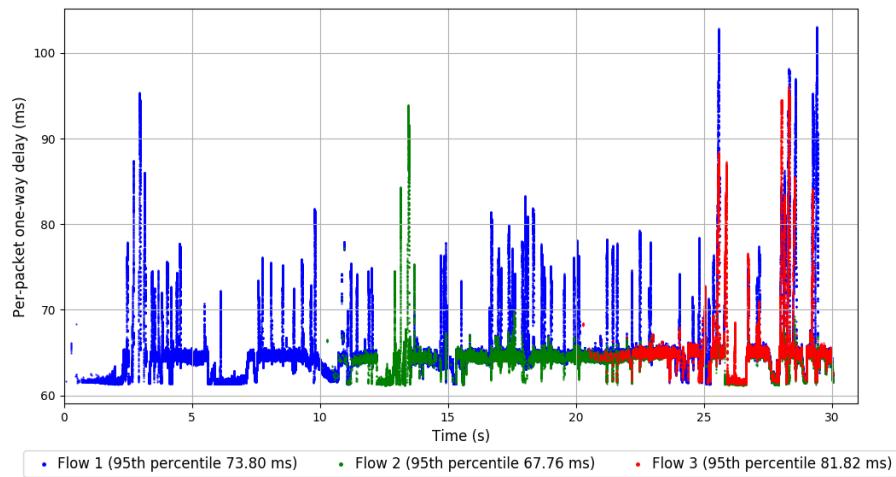
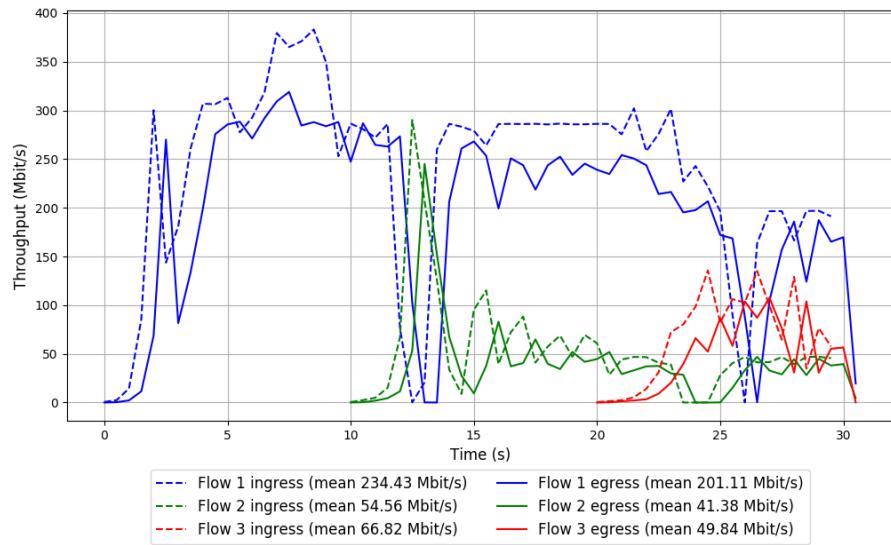


Run 5: Statistics of TCP BBR

```
Start at: 2019-06-27 10:05:42
End at: 2019-06-27 10:06:12
Local clock offset: -0.538 ms
Remote clock offset: -40.376 ms

# Below is generated by plot.py at 2019-06-27 10:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.19 Mbit/s
95th percentile per-packet one-way delay: 73.975 ms
Loss rate: 16.30%
-- Flow 1:
Average throughput: 201.11 Mbit/s
95th percentile per-packet one-way delay: 73.796 ms
Loss rate: 14.21%
-- Flow 2:
Average throughput: 41.38 Mbit/s
95th percentile per-packet one-way delay: 67.761 ms
Loss rate: 24.15%
-- Flow 3:
Average throughput: 49.84 Mbit/s
95th percentile per-packet one-way delay: 81.823 ms
Loss rate: 25.43%
```

Run 5: Report of TCP BBR — Data Link

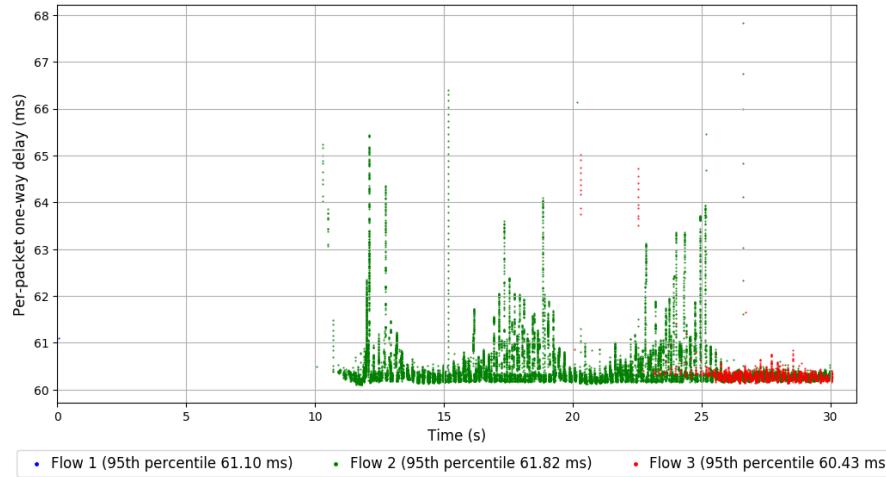
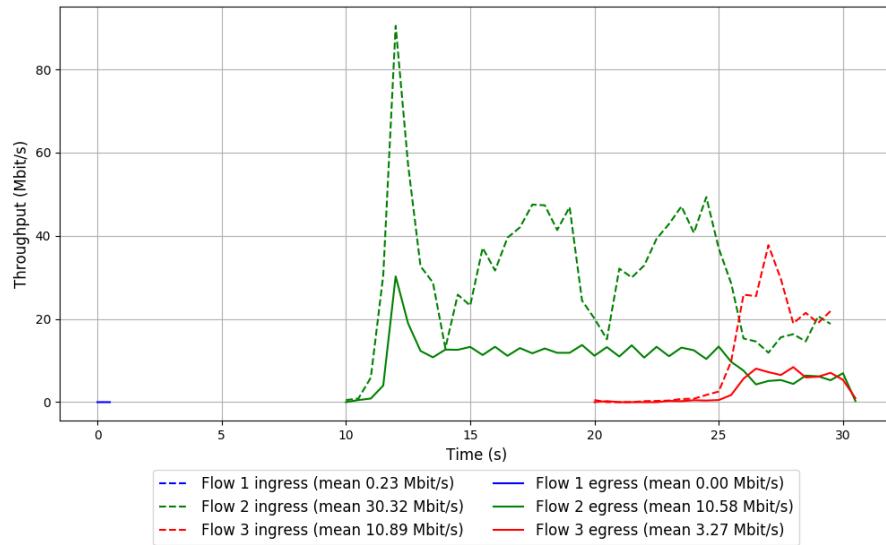


Run 1: Statistics of Copa

```
Start at: 2019-06-27 07:47:29
End at: 2019-06-27 07:47:59
Local clock offset: -0.928 ms
Remote clock offset: -41.804 ms

# Below is generated by plot.py at 2019-06-27 10:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 61.672 ms
Loss rate: 65.86%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 61.098 ms
Loss rate: 97.92%
-- Flow 2:
Average throughput: 10.58 Mbit/s
95th percentile per-packet one-way delay: 61.819 ms
Loss rate: 65.11%
-- Flow 3:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 60.430 ms
Loss rate: 70.00%
```

Run 1: Report of Copa — Data Link

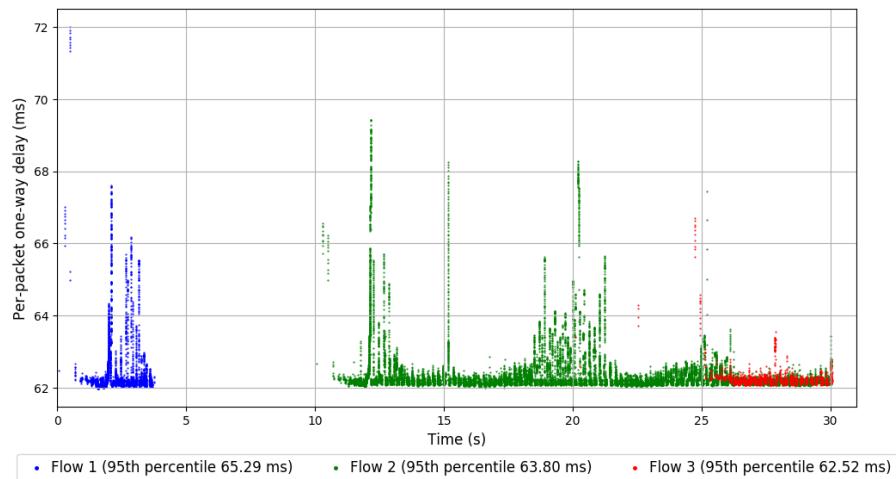
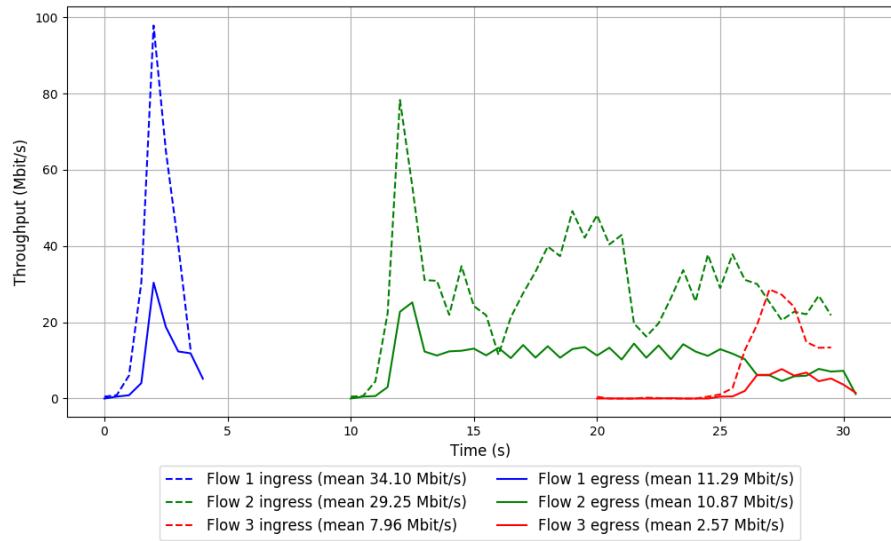


Run 2: Statistics of Copa

```
Start at: 2019-06-27 08:19:15
End at: 2019-06-27 08:19:45
Local clock offset: -1.237 ms
Remote clock offset: -40.293 ms

# Below is generated by plot.py at 2019-06-27 10:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.48 Mbit/s
95th percentile per-packet one-way delay: 63.970 ms
Loss rate: 63.99%
-- Flow 1:
Average throughput: 11.29 Mbit/s
95th percentile per-packet one-way delay: 65.291 ms
Loss rate: 66.89%
-- Flow 2:
Average throughput: 10.87 Mbit/s
95th percentile per-packet one-way delay: 63.803 ms
Loss rate: 62.84%
-- Flow 3:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 62.525 ms
Loss rate: 67.76%
```

Run 2: Report of Copa — Data Link

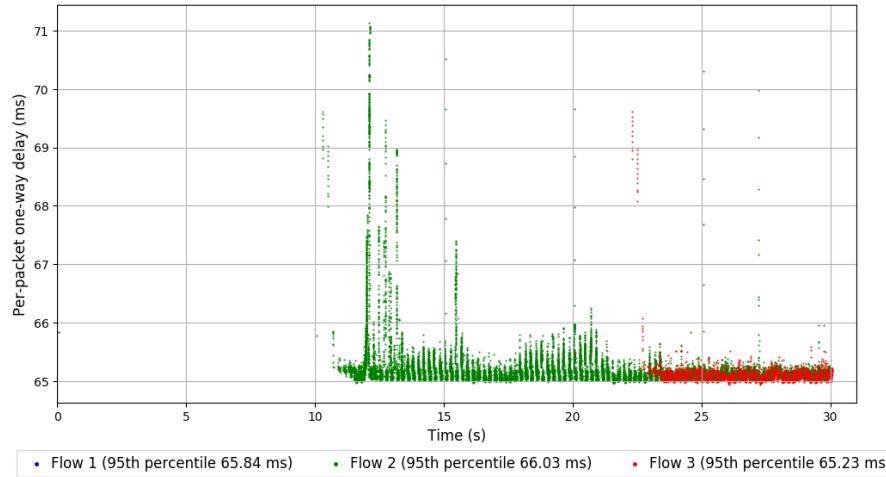
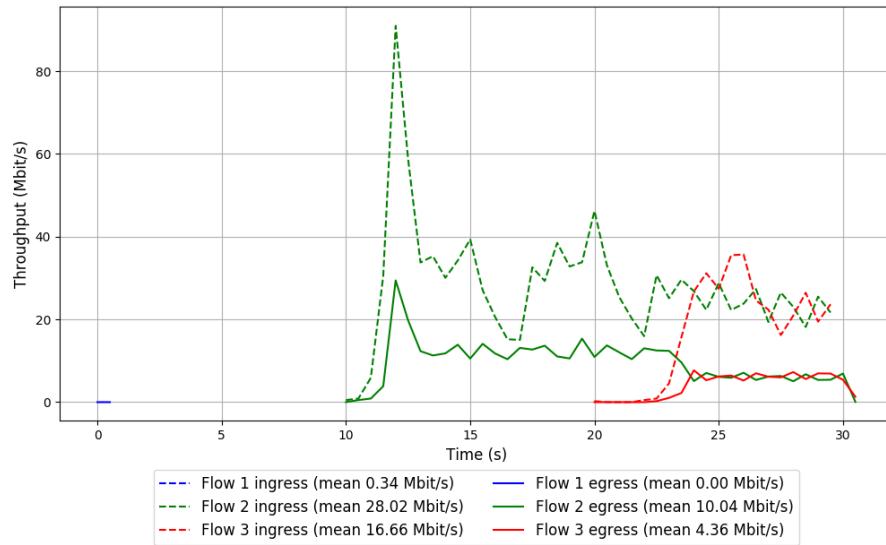


Run 3: Statistics of Copa

```
Start at: 2019-06-27 09:00:33
End at: 2019-06-27 09:01:03
Local clock offset: -0.743 ms
Remote clock offset: -37.013 ms

# Below is generated by plot.py at 2019-06-27 10:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 65.828 ms
Loss rate: 66.39%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 65.845 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 10.04 Mbit/s
95th percentile per-packet one-way delay: 66.032 ms
Loss rate: 64.17%
-- Flow 3:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 65.226 ms
Loss rate: 73.83%
```

Run 3: Report of Copa — Data Link

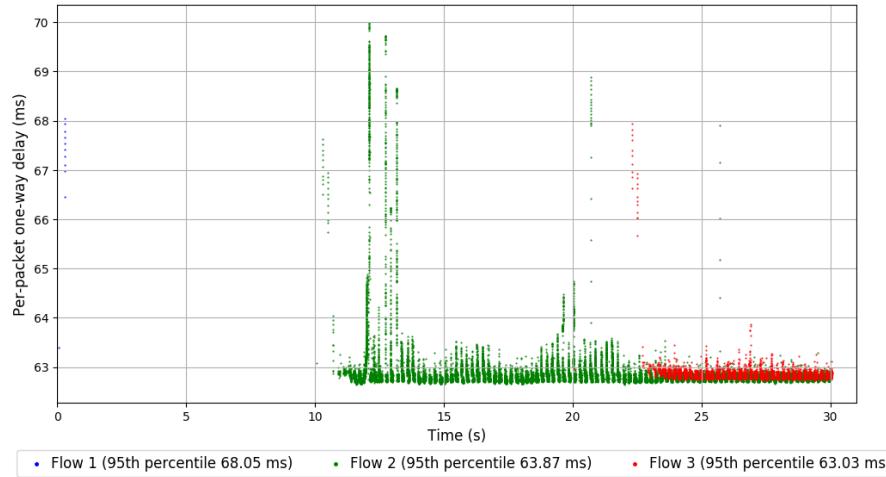
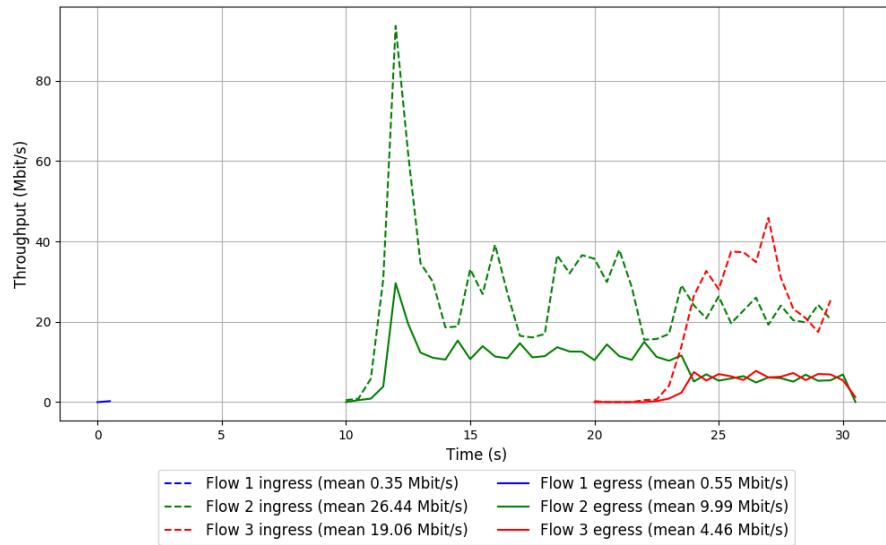


Run 4: Statistics of Copa

```
Start at: 2019-06-27 09:32:32
End at: 2019-06-27 09:33:02
Local clock offset: -1.4 ms
Remote clock offset: -39.489 ms

# Below is generated by plot.py at 2019-06-27 10:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 63.565 ms
Loss rate: 66.03%
-- Flow 1:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 68.047 ms
Loss rate: 16.55%
-- Flow 2:
Average throughput: 9.99 Mbit/s
95th percentile per-packet one-way delay: 63.868 ms
Loss rate: 62.23%
-- Flow 3:
Average throughput: 4.46 Mbit/s
95th percentile per-packet one-way delay: 63.026 ms
Loss rate: 76.62%
```

Run 4: Report of Copa — Data Link

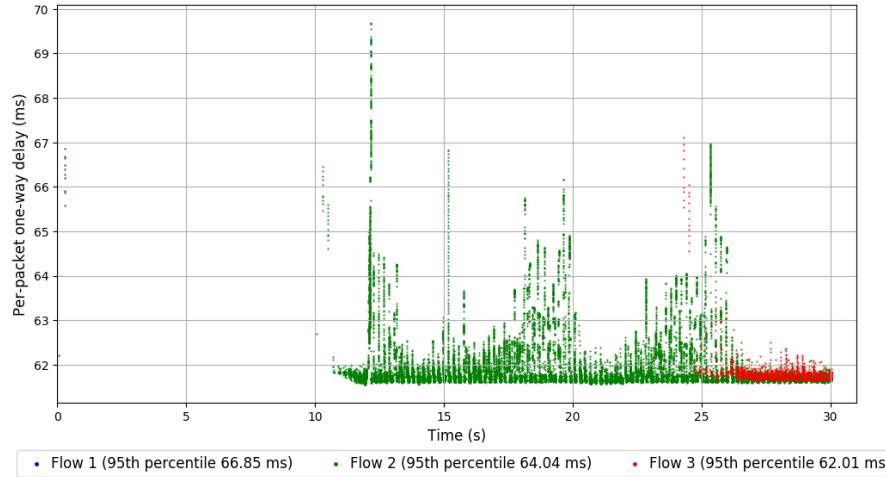
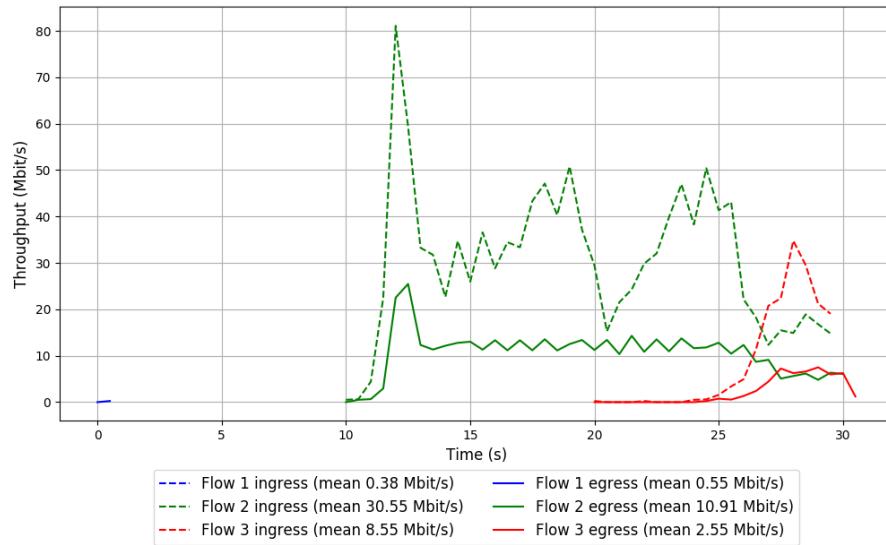


Run 5: Statistics of Copa

```
Start at: 2019-06-27 10:04:23
End at: 2019-06-27 10:04:53
Local clock offset: -0.212 ms
Remote clock offset: -39.601 ms

# Below is generated by plot.py at 2019-06-27 10:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.08 Mbit/s
95th percentile per-packet one-way delay: 63.956 ms
Loss rate: 65.00%
-- Flow 1:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 66.849 ms
Loss rate: 22.93%
-- Flow 2:
Average throughput: 10.91 Mbit/s
95th percentile per-packet one-way delay: 64.040 ms
Loss rate: 64.28%
-- Flow 3:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 62.005 ms
Loss rate: 70.24%
```

Run 5: Report of Copa — Data Link

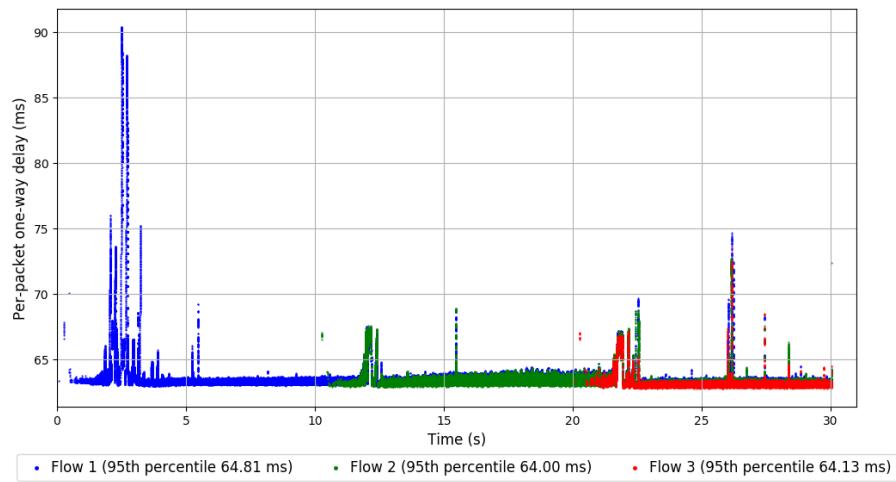
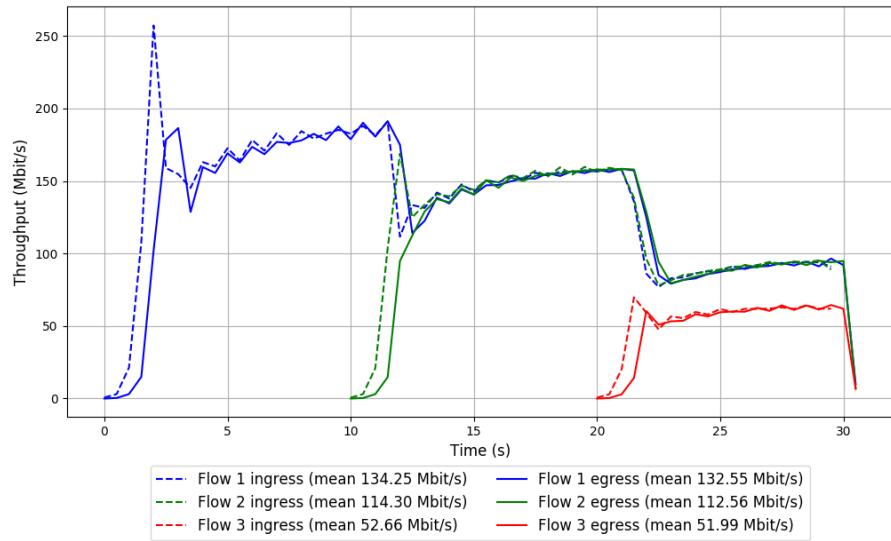


```
Run 1: Statistics of TCP Cubic

Start at: 2019-06-27 07:40:03
End at: 2019-06-27 07:40:33
Local clock offset: -0.513 ms
Remote clock offset: -38.826 ms

# Below is generated by plot.py at 2019-06-27 10:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 224.82 Mbit/s
95th percentile per-packet one-way delay: 64.430 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 132.55 Mbit/s
95th percentile per-packet one-way delay: 64.807 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 112.56 Mbit/s
95th percentile per-packet one-way delay: 63.999 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 51.99 Mbit/s
95th percentile per-packet one-way delay: 64.129 ms
Loss rate: 1.28%
```

Run 1: Report of TCP Cubic — Data Link

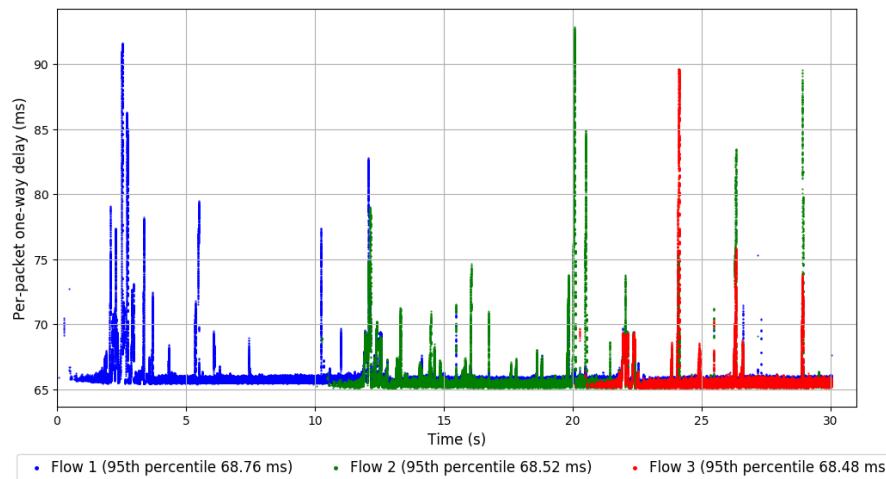
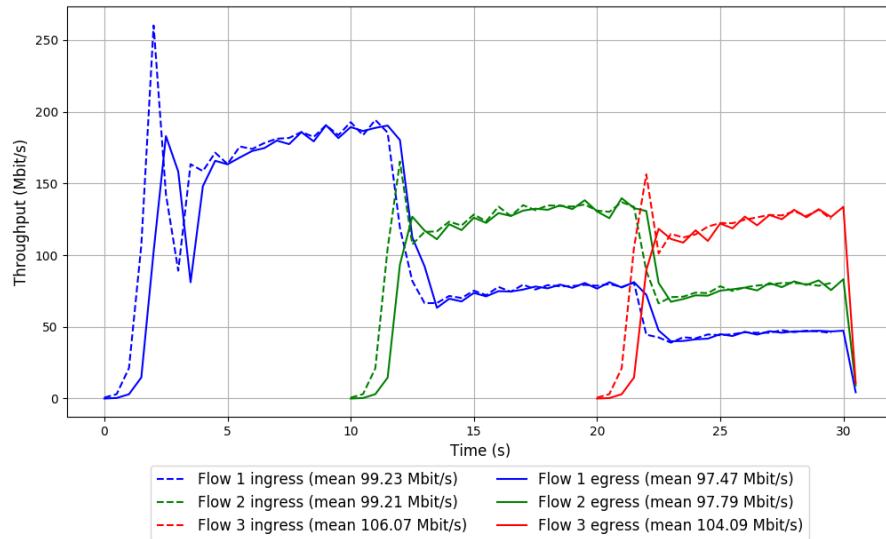


Run 2: Statistics of TCP Cubic

```
Start at: 2019-06-27 08:11:55
End at: 2019-06-27 08:12:25
Local clock offset: -0.259 ms
Remote clock offset: -36.258 ms

# Below is generated by plot.py at 2019-06-27 10:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 197.22 Mbit/s
95th percentile per-packet one-way delay: 68.606 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 68.757 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 97.79 Mbit/s
95th percentile per-packet one-way delay: 68.518 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 104.09 Mbit/s
95th percentile per-packet one-way delay: 68.481 ms
Loss rate: 1.87%
```

Run 2: Report of TCP Cubic — Data Link

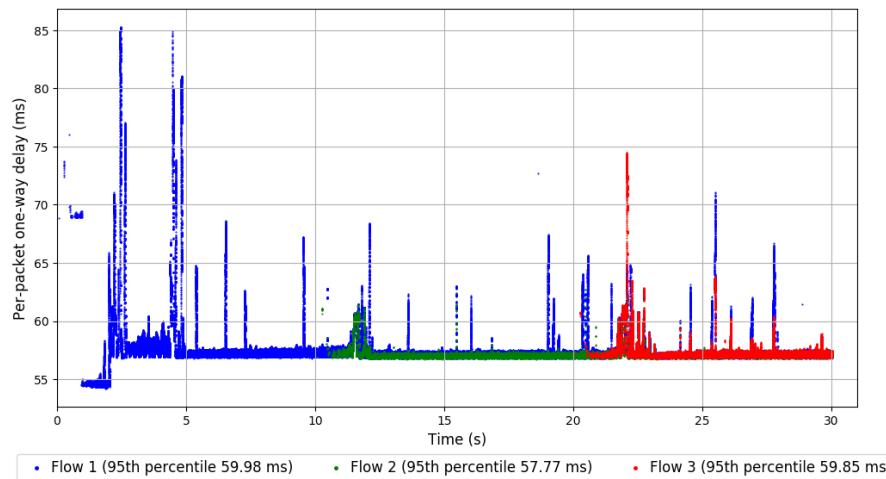
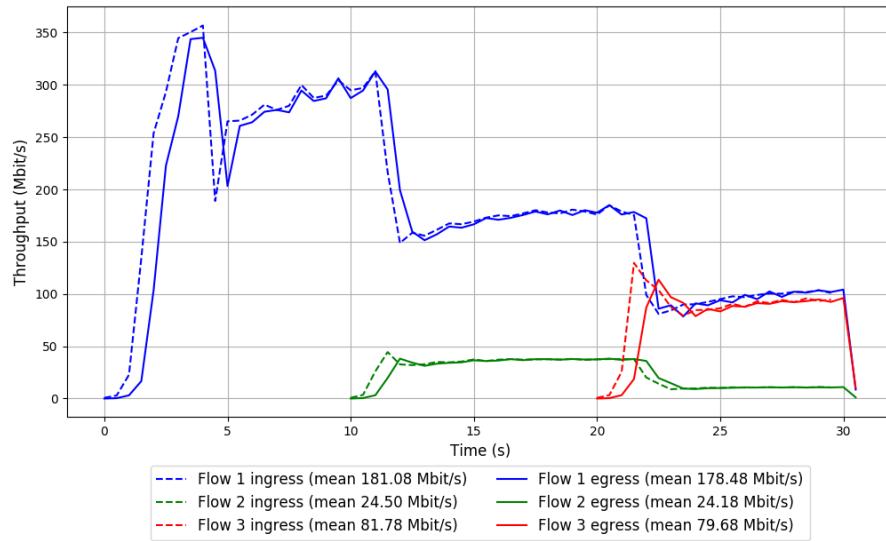


Run 3: Statistics of TCP Cubic

```
Start at: 2019-06-27 08:43:52
End at: 2019-06-27 08:44:22
Local clock offset: 0.566 ms
Remote clock offset: -43.921 ms

# Below is generated by plot.py at 2019-06-27 10:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 221.10 Mbit/s
95th percentile per-packet one-way delay: 59.856 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 178.48 Mbit/s
95th percentile per-packet one-way delay: 59.983 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 24.18 Mbit/s
95th percentile per-packet one-way delay: 57.771 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 79.68 Mbit/s
95th percentile per-packet one-way delay: 59.849 ms
Loss rate: 2.57%
```

Run 3: Report of TCP Cubic — Data Link

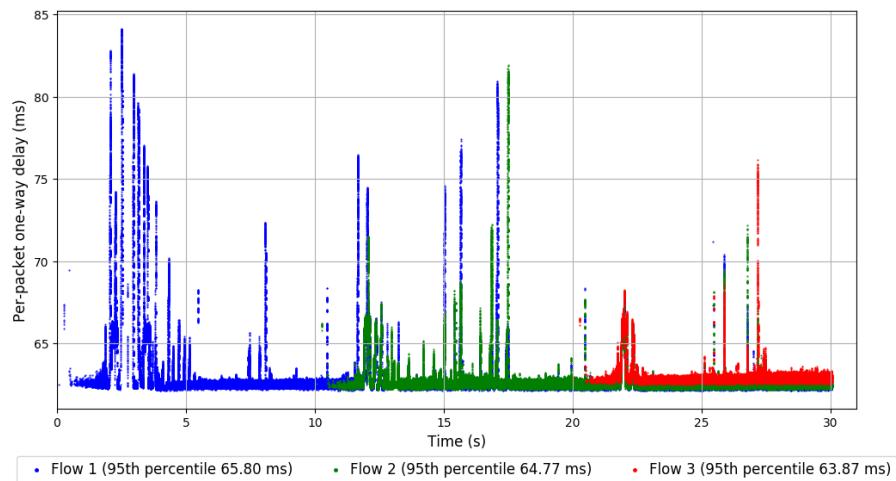
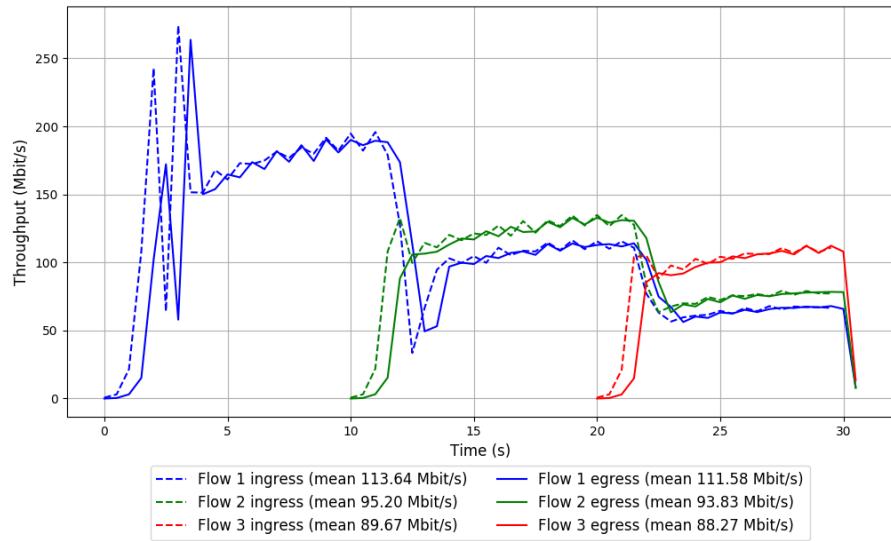


Run 4: Statistics of TCP Cubic

```
Start at: 2019-06-27 09:25:08
End at: 2019-06-27 09:25:38
Local clock offset: -0.652 ms
Remote clock offset: -39.327 ms

# Below is generated by plot.py at 2019-06-27 10:46:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 203.50 Mbit/s
95th percentile per-packet one-way delay: 65.587 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 111.58 Mbit/s
95th percentile per-packet one-way delay: 65.801 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 93.83 Mbit/s
95th percentile per-packet one-way delay: 64.768 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 88.27 Mbit/s
95th percentile per-packet one-way delay: 63.871 ms
Loss rate: 1.56%
```

Run 4: Report of TCP Cubic — Data Link

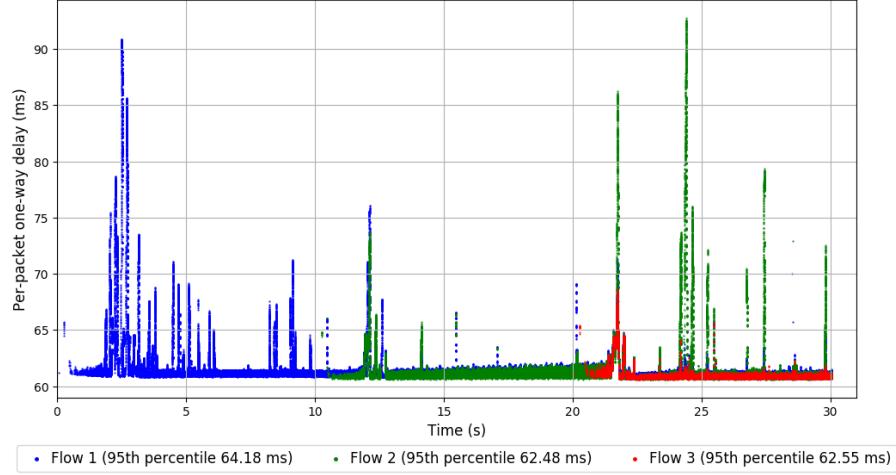
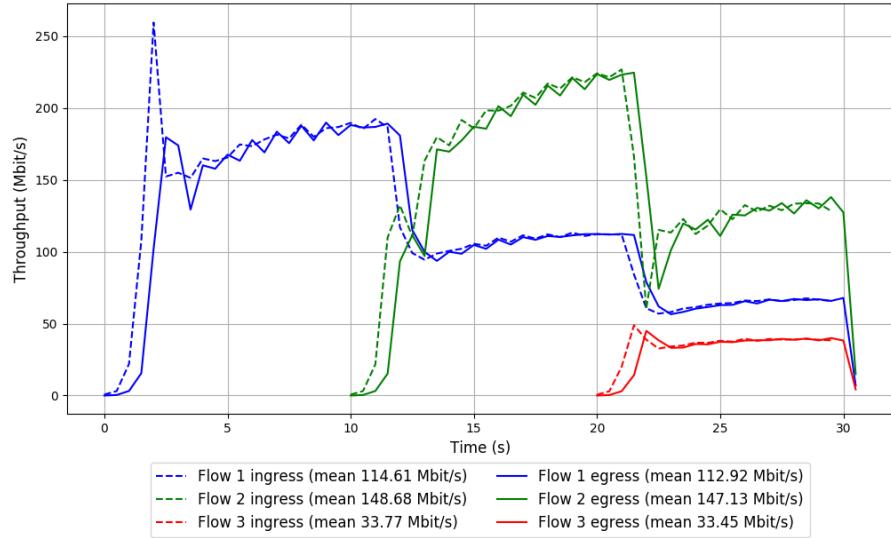


Run 5: Statistics of TCP Cubic

```
Start at: 2019-06-27 09:56:59
End at: 2019-06-27 09:57:29
Local clock offset: 0.315 ms
Remote clock offset: -39.839 ms

# Below is generated by plot.py at 2019-06-27 10:46:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 222.10 Mbit/s
95th percentile per-packet one-way delay: 63.717 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 112.92 Mbit/s
95th percentile per-packet one-way delay: 64.184 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 147.13 Mbit/s
95th percentile per-packet one-way delay: 62.482 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 33.45 Mbit/s
95th percentile per-packet one-way delay: 62.545 ms
Loss rate: 0.95%
```

Run 5: Report of TCP Cubic — Data Link

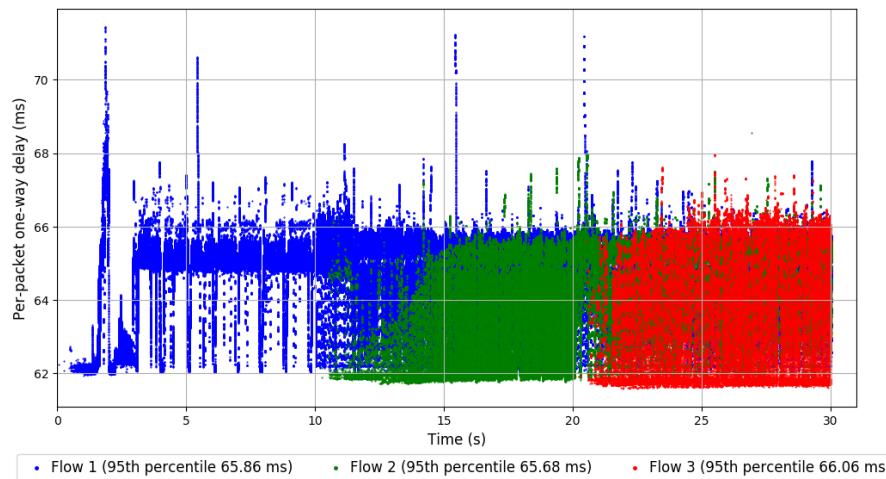
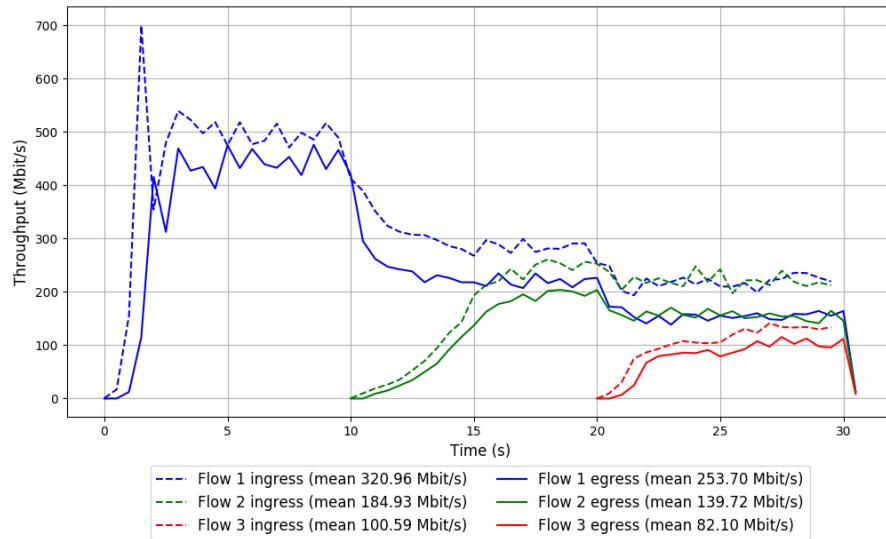


```
Run 1: Statistics of FillP
```

```
Start at: 2019-06-27 07:50:22
End at: 2019-06-27 07:50:52
Local clock offset: -0.774 ms
Remote clock offset: -39.966 ms

# Below is generated by plot.py at 2019-06-27 10:49:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 373.87 Mbit/s
95th percentile per-packet one-way delay: 65.832 ms
Loss rate: 21.67%
-- Flow 1:
Average throughput: 253.70 Mbit/s
95th percentile per-packet one-way delay: 65.856 ms
Loss rate: 20.95%
-- Flow 2:
Average throughput: 139.72 Mbit/s
95th percentile per-packet one-way delay: 65.676 ms
Loss rate: 24.45%
-- Flow 3:
Average throughput: 82.10 Mbit/s
95th percentile per-packet one-way delay: 66.064 ms
Loss rate: 18.38%
```

Run 1: Report of FillP — Data Link

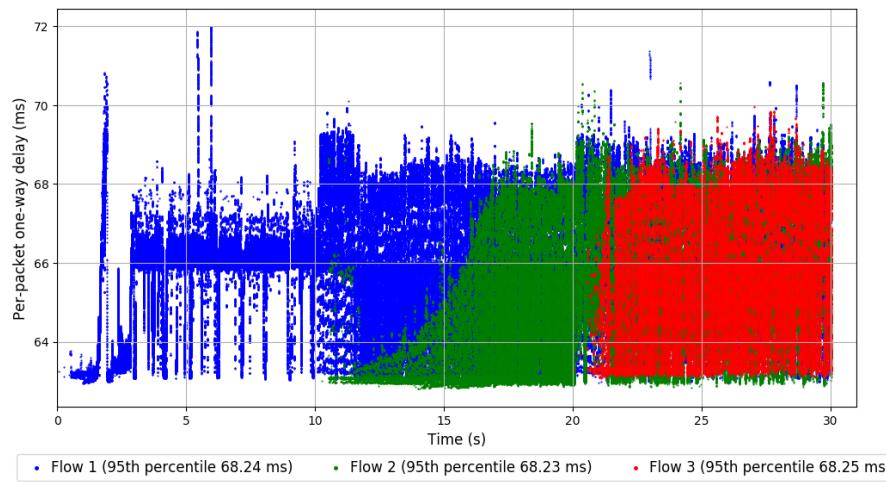
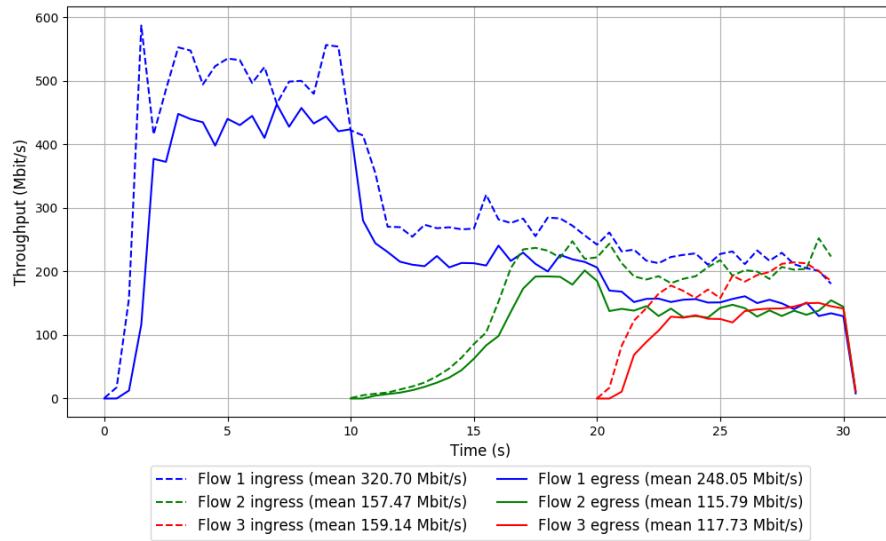


Run 2: Statistics of FillP

```
Start at: 2019-06-27 08:22:11
End at: 2019-06-27 08:22:41
Local clock offset: -1.022 ms
Remote clock offset: -38.966 ms

# Below is generated by plot.py at 2019-06-27 10:49:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 363.97 Mbit/s
95th percentile per-packet one-way delay: 68.238 ms
Loss rate: 23.86%
-- Flow 1:
Average throughput: 248.05 Mbit/s
95th percentile per-packet one-way delay: 68.238 ms
Loss rate: 22.65%
-- Flow 2:
Average throughput: 115.79 Mbit/s
95th percentile per-packet one-way delay: 68.228 ms
Loss rate: 26.46%
-- Flow 3:
Average throughput: 117.73 Mbit/s
95th percentile per-packet one-way delay: 68.253 ms
Loss rate: 26.02%
```

Run 2: Report of FillP — Data Link

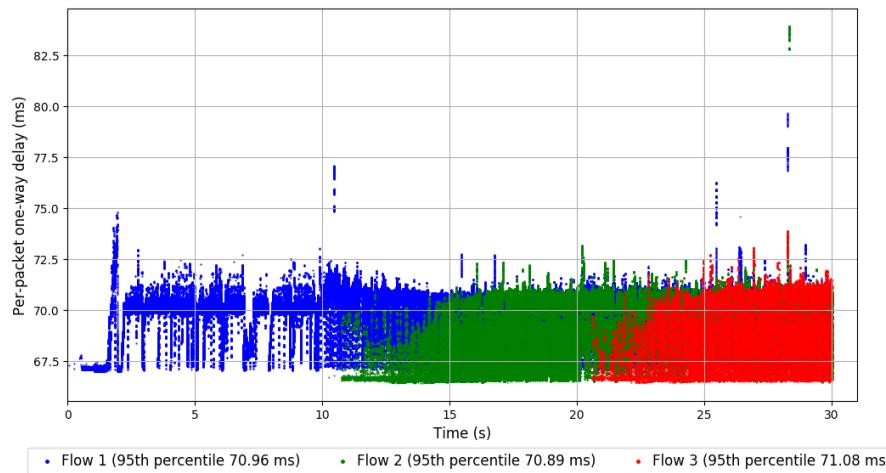
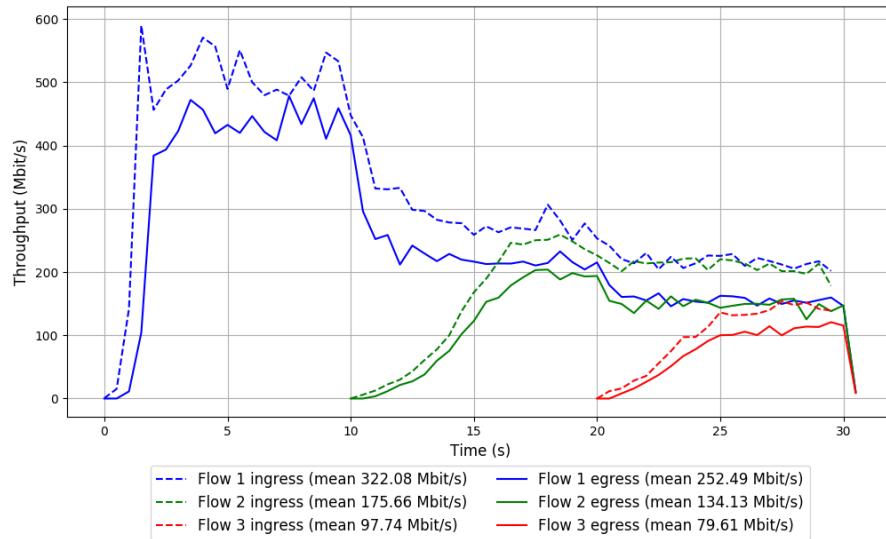


Run 3: Statistics of FillP

```
Start at: 2019-06-27 09:03:27
End at: 2019-06-27 09:03:57
Local clock offset: -0.327 ms
Remote clock offset: -34.889 ms

# Below is generated by plot.py at 2019-06-27 10:49:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 367.22 Mbit/s
95th percentile per-packet one-way delay: 70.948 ms
Loss rate: 22.09%
-- Flow 1:
Average throughput: 252.49 Mbit/s
95th percentile per-packet one-way delay: 70.957 ms
Loss rate: 21.60%
-- Flow 2:
Average throughput: 134.13 Mbit/s
95th percentile per-packet one-way delay: 70.890 ms
Loss rate: 24.41%
-- Flow 3:
Average throughput: 79.61 Mbit/s
95th percentile per-packet one-way delay: 71.077 ms
Loss rate: 18.56%
```

Run 3: Report of FillP — Data Link

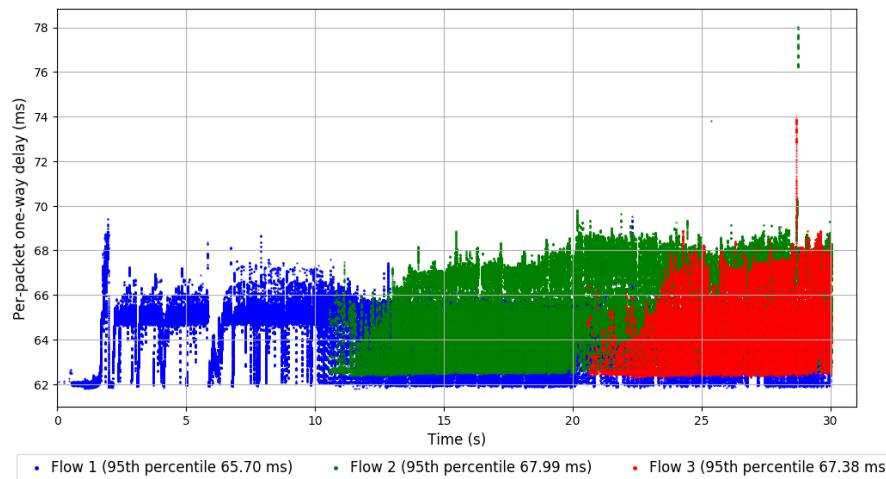
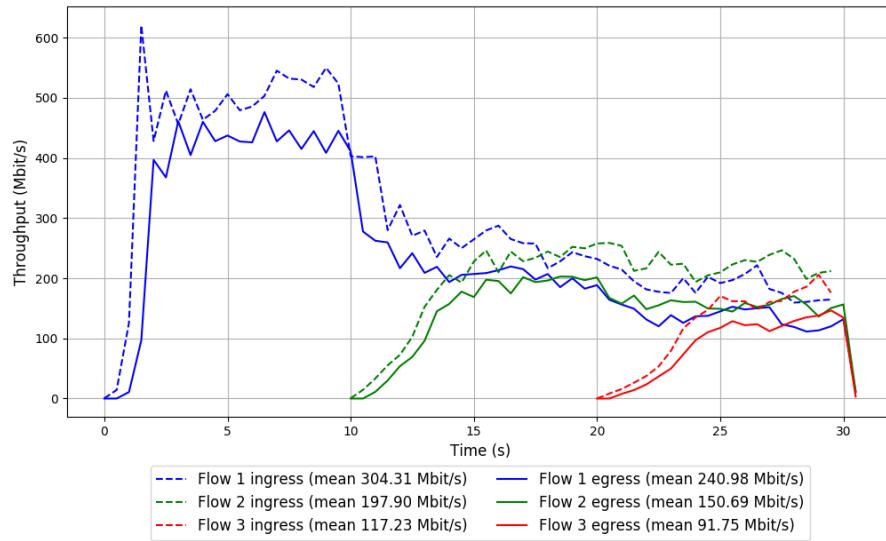


Run 4: Statistics of FillP

```
Start at: 2019-06-27 09:35:25
End at: 2019-06-27 09:35:55
Local clock offset: -1.225 ms
Remote clock offset: -39.735 ms

# Below is generated by plot.py at 2019-06-27 10:49:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 371.60 Mbit/s
95th percentile per-packet one-way delay: 67.243 ms
Loss rate: 21.73%
-- Flow 1:
Average throughput: 240.98 Mbit/s
95th percentile per-packet one-way delay: 65.704 ms
Loss rate: 20.81%
-- Flow 2:
Average throughput: 150.69 Mbit/s
95th percentile per-packet one-way delay: 67.989 ms
Loss rate: 23.86%
-- Flow 3:
Average throughput: 91.75 Mbit/s
95th percentile per-packet one-way delay: 67.375 ms
Loss rate: 21.72%
```

Run 4: Report of FillP — Data Link

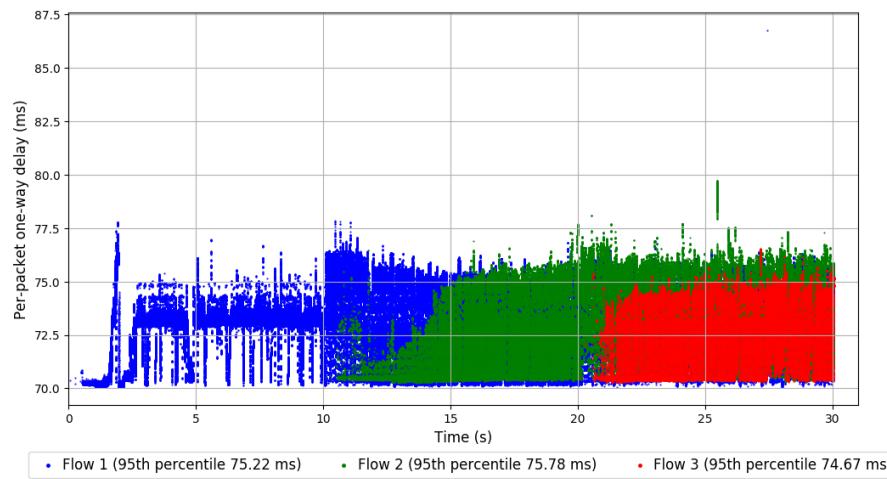
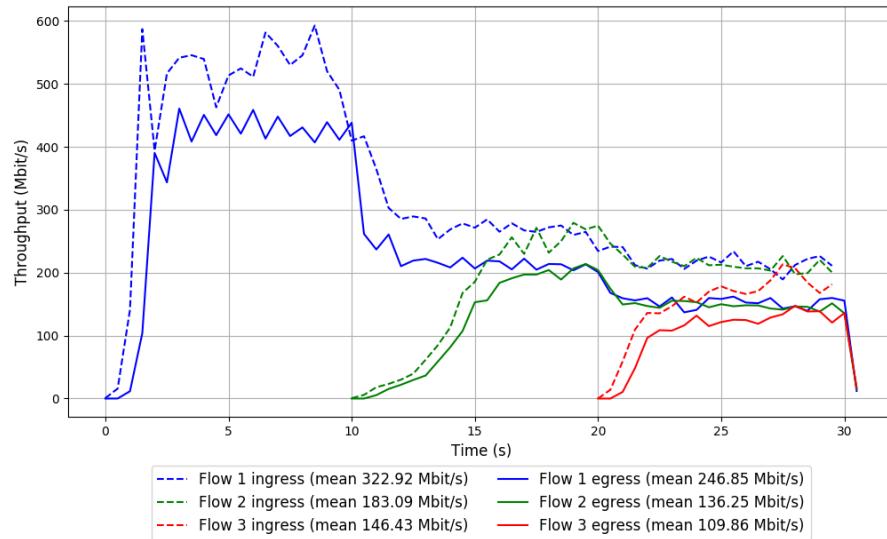


Run 5: Statistics of FillP

```
Start at: 2019-06-27 10:07:17
End at: 2019-06-27 10:07:47
Local clock offset: -0.722 ms
Remote clock offset: -31.495 ms

# Below is generated by plot.py at 2019-06-27 10:49:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 373.86 Mbit/s
95th percentile per-packet one-way delay: 75.383 ms
Loss rate: 24.19%
-- Flow 1:
Average throughput: 246.85 Mbit/s
95th percentile per-packet one-way delay: 75.215 ms
Loss rate: 23.55%
-- Flow 2:
Average throughput: 136.25 Mbit/s
95th percentile per-packet one-way delay: 75.784 ms
Loss rate: 25.58%
-- Flow 3:
Average throughput: 109.86 Mbit/s
95th percentile per-packet one-way delay: 74.668 ms
Loss rate: 24.94%
```

Run 5: Report of FillP — Data Link

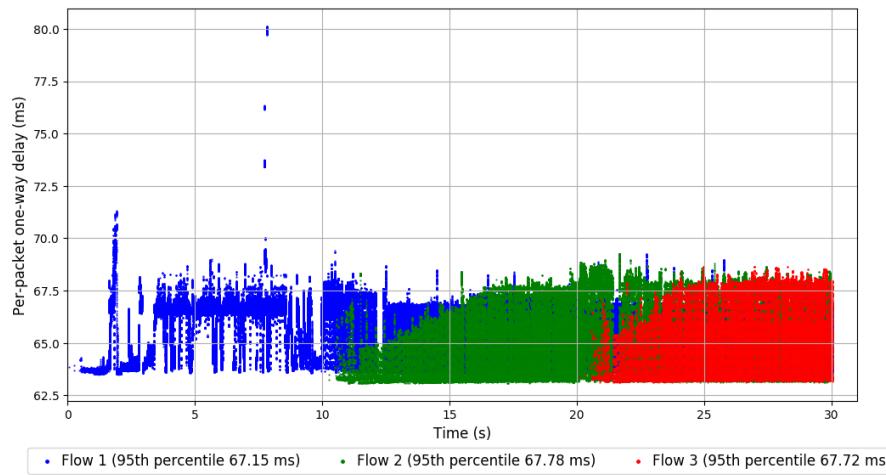
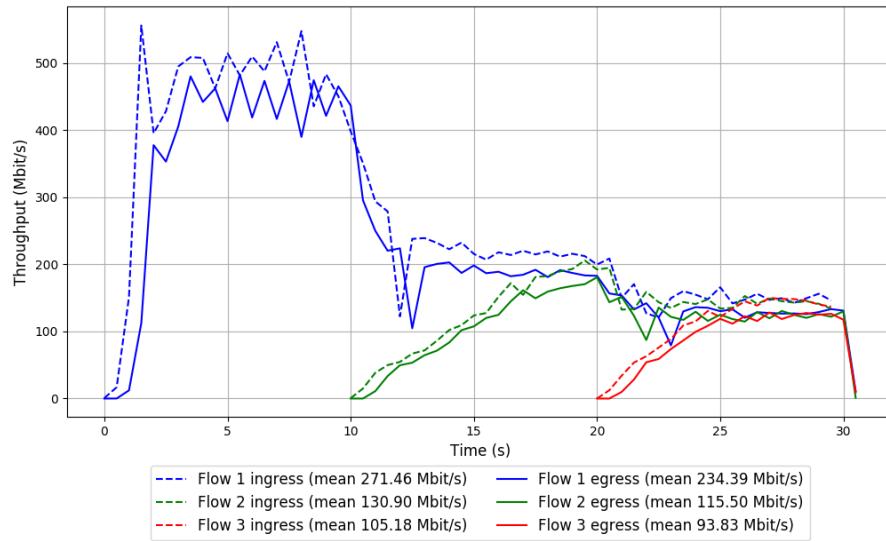


Run 1: Statistics of FillP-Sheep

```
Start at: 2019-06-27 07:55:50
End at: 2019-06-27 07:56:21
Local clock offset: 0.249 ms
Remote clock offset: -37.462 ms

# Below is generated by plot.py at 2019-06-27 10:49:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 342.26 Mbit/s
95th percentile per-packet one-way delay: 67.438 ms
Loss rate: 12.99%
-- Flow 1:
Average throughput: 234.39 Mbit/s
95th percentile per-packet one-way delay: 67.150 ms
Loss rate: 13.66%
-- Flow 2:
Average throughput: 115.50 Mbit/s
95th percentile per-packet one-way delay: 67.779 ms
Loss rate: 11.77%
-- Flow 3:
Average throughput: 93.83 Mbit/s
95th percentile per-packet one-way delay: 67.718 ms
Loss rate: 10.80%
```

Run 1: Report of FillP-Sheep — Data Link

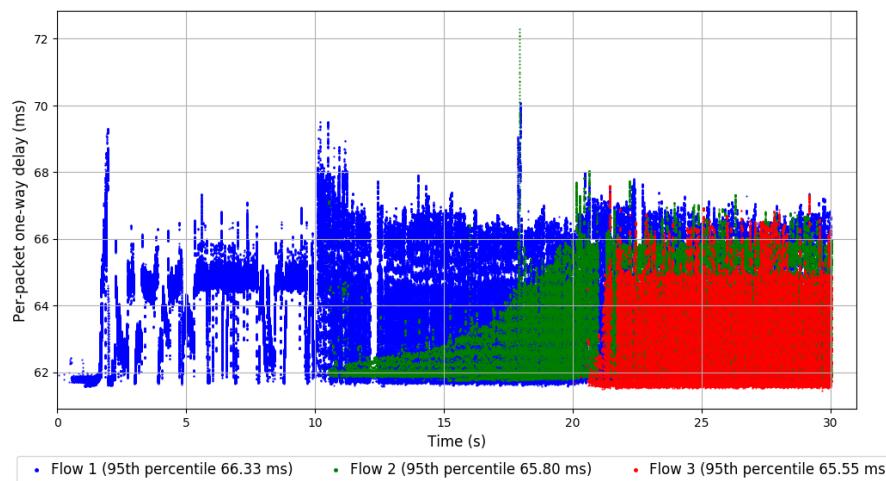
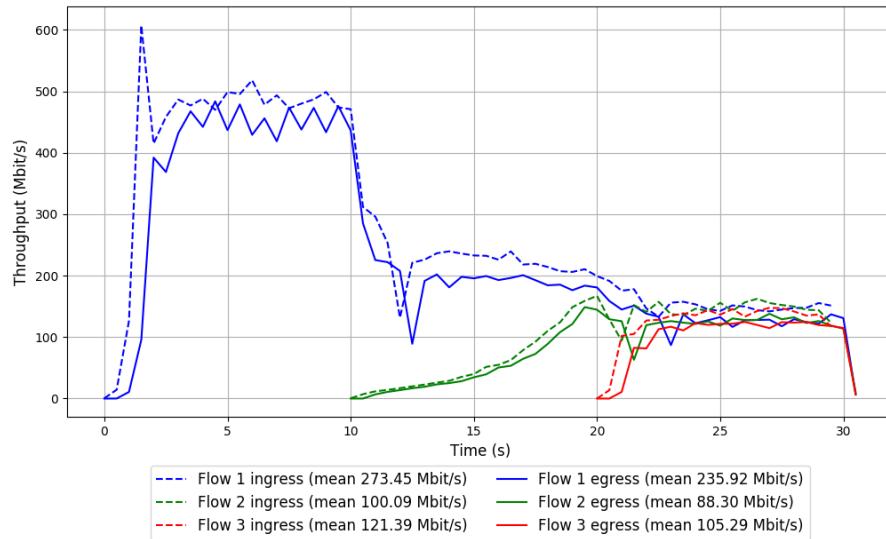


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-06-27 08:27:39
End at: 2019-06-27 08:28:09
Local clock offset: 0.083 ms
Remote clock offset: -39.202 ms

# Below is generated by plot.py at 2019-06-27 10:50:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 329.45 Mbit/s
95th percentile per-packet one-way delay: 66.178 ms
Loss rate: 13.34%
-- Flow 1:
Average throughput: 235.92 Mbit/s
95th percentile per-packet one-way delay: 66.330 ms
Loss rate: 13.73%
-- Flow 2:
Average throughput: 88.30 Mbit/s
95th percentile per-packet one-way delay: 65.801 ms
Loss rate: 11.79%
-- Flow 3:
Average throughput: 105.29 Mbit/s
95th percentile per-packet one-way delay: 65.549 ms
Loss rate: 13.24%
```

Run 2: Report of FillP-Sheep — Data Link

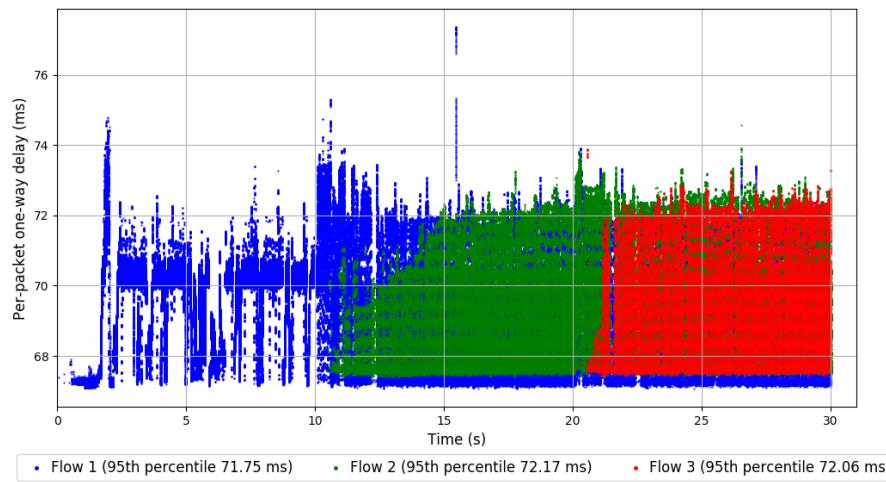
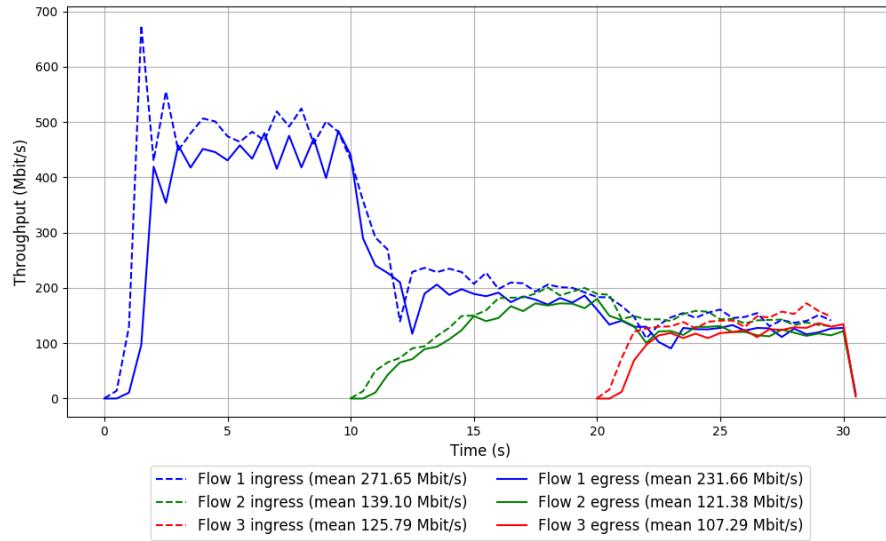


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-06-27 09:08:55
End at: 2019-06-27 09:09:25
Local clock offset: -1.342 ms
Remote clock offset: -35.134 ms

# Below is generated by plot.py at 2019-06-27 10:51:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 347.96 Mbit/s
95th percentile per-packet one-way delay: 71.958 ms
Loss rate: 14.27%
-- Flow 1:
Average throughput: 231.66 Mbit/s
95th percentile per-packet one-way delay: 71.754 ms
Loss rate: 14.72%
-- Flow 2:
Average throughput: 121.38 Mbit/s
95th percentile per-packet one-way delay: 72.174 ms
Loss rate: 12.74%
-- Flow 3:
Average throughput: 107.29 Mbit/s
95th percentile per-packet one-way delay: 72.065 ms
Loss rate: 14.70%
```

Run 3: Report of FillP-Sheep — Data Link

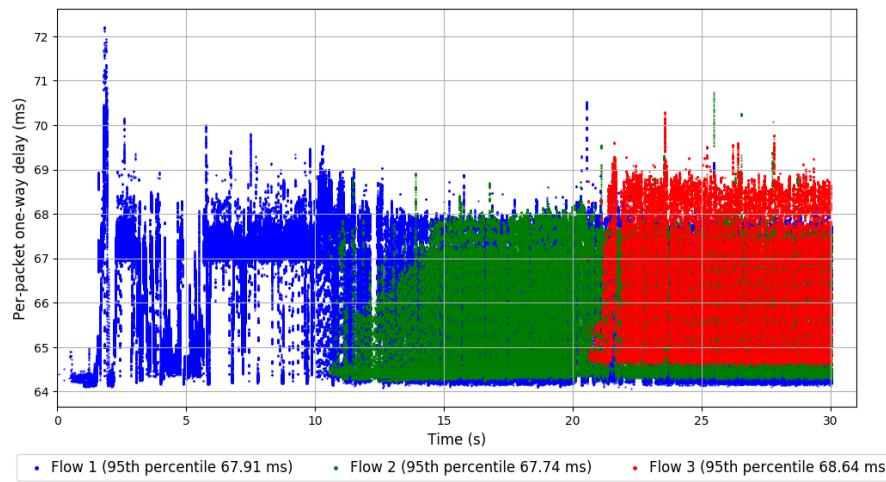
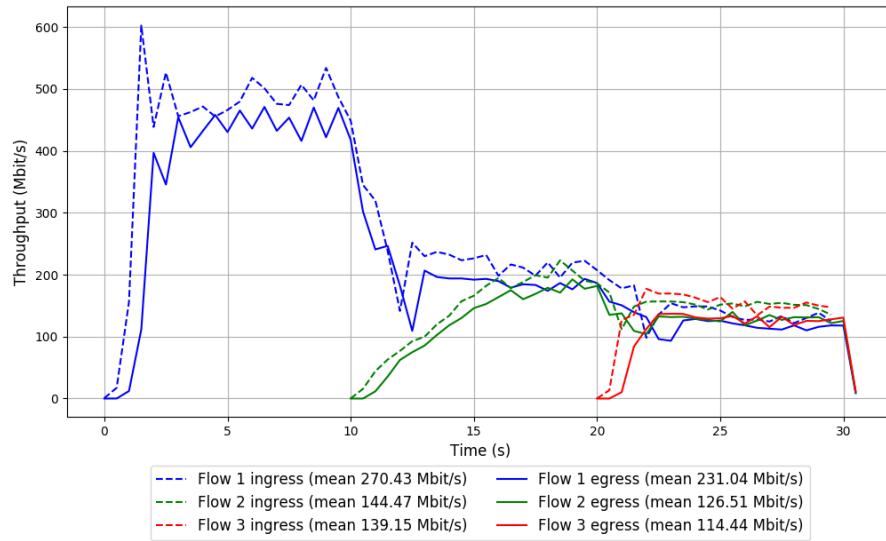


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-06-27 09:40:56
End at: 2019-06-27 09:41:26
Local clock offset: -1.856 ms
Remote clock offset: -38.296 ms

# Below is generated by plot.py at 2019-06-27 10:54:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 353.12 Mbit/s
95th percentile per-packet one-way delay: 68.035 ms
Loss rate: 14.43%
-- Flow 1:
Average throughput: 231.04 Mbit/s
95th percentile per-packet one-way delay: 67.910 ms
Loss rate: 14.56%
-- Flow 2:
Average throughput: 126.51 Mbit/s
95th percentile per-packet one-way delay: 67.736 ms
Loss rate: 12.44%
-- Flow 3:
Average throughput: 114.44 Mbit/s
95th percentile per-packet one-way delay: 68.643 ms
Loss rate: 17.75%
```

Run 4: Report of FillP-Sheep — Data Link

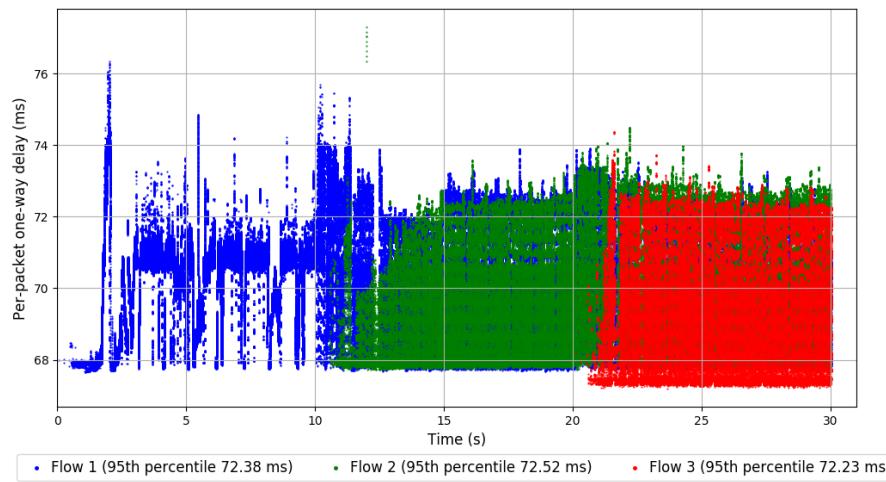
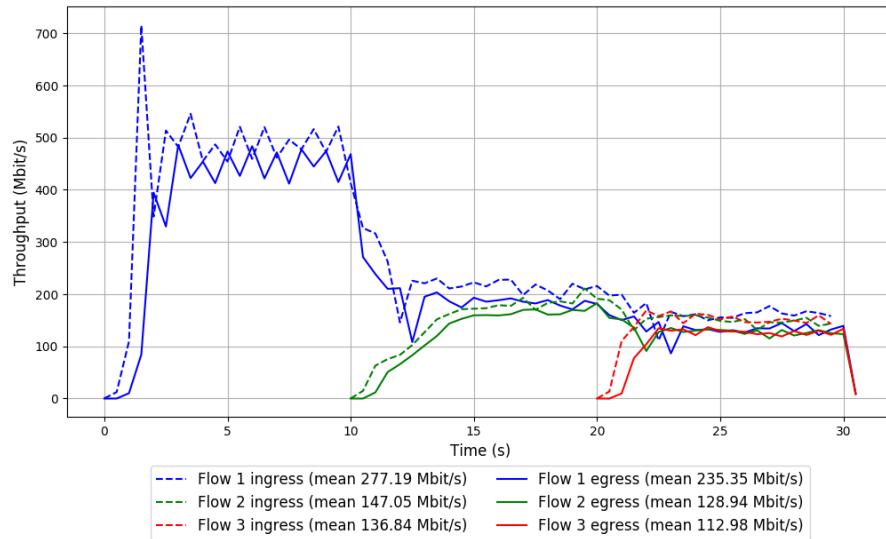


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-06-27 10:12:47
End at: 2019-06-27 10:13:17
Local clock offset: -0.732 ms
Remote clock offset: -34.233 ms

# Below is generated by plot.py at 2019-06-27 10:54:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 358.45 Mbit/s
95th percentile per-packet one-way delay: 72.402 ms
Loss rate: 14.70%
-- Flow 1:
Average throughput: 235.35 Mbit/s
95th percentile per-packet one-way delay: 72.379 ms
Loss rate: 15.09%
-- Flow 2:
Average throughput: 128.94 Mbit/s
95th percentile per-packet one-way delay: 72.520 ms
Loss rate: 12.33%
-- Flow 3:
Average throughput: 112.98 Mbit/s
95th percentile per-packet one-way delay: 72.231 ms
Loss rate: 17.43%
```

Run 5: Report of FillP-Sheep — Data Link

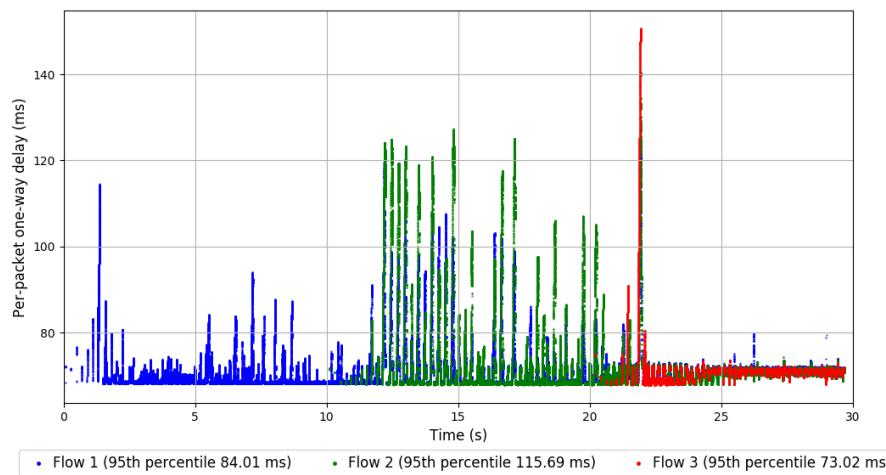
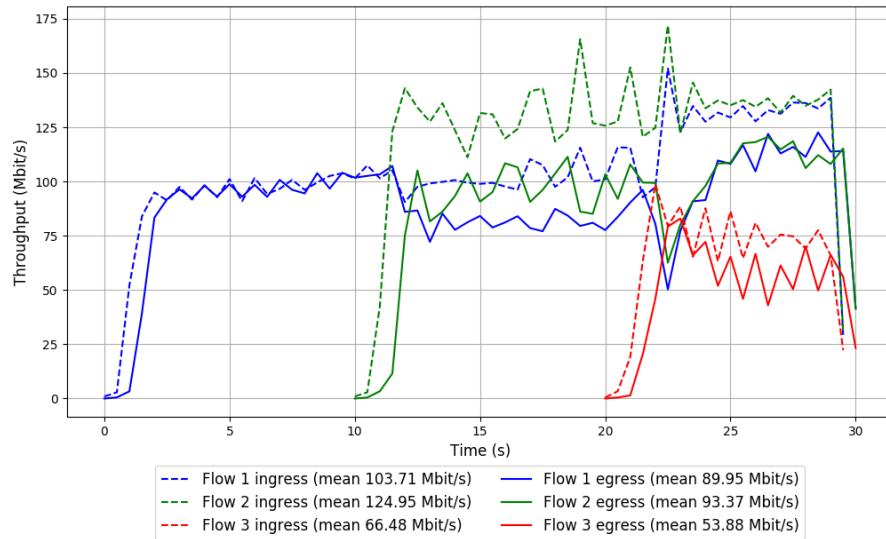


Run 1: Statistics of Indigo

```
Start at: 2019-06-27 07:57:24
End at: 2019-06-27 07:57:54
Local clock offset: -0.464 ms
Remote clock offset: -33.826 ms

# Below is generated by plot.py at 2019-06-27 10:54:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 168.89 Mbit/s
95th percentile per-packet one-way delay: 98.569 ms
Loss rate: 18.62%
-- Flow 1:
Average throughput: 89.95 Mbit/s
95th percentile per-packet one-way delay: 84.008 ms
Loss rate: 13.26%
-- Flow 2:
Average throughput: 93.37 Mbit/s
95th percentile per-packet one-way delay: 115.695 ms
Loss rate: 25.27%
-- Flow 3:
Average throughput: 53.88 Mbit/s
95th percentile per-packet one-way delay: 73.015 ms
Loss rate: 18.93%
```

Run 1: Report of Indigo — Data Link

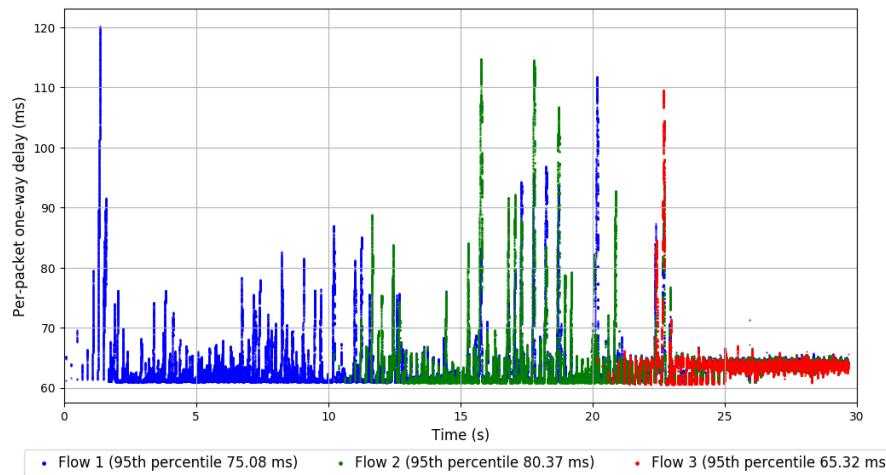
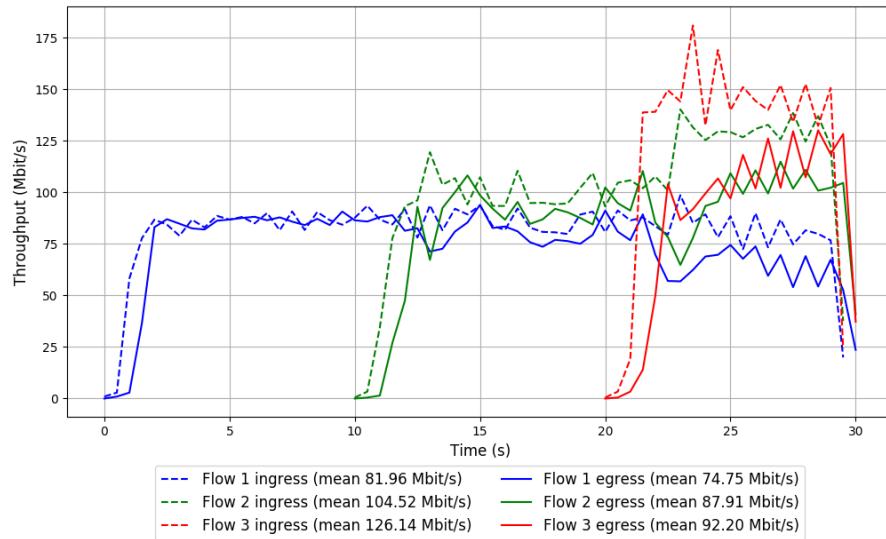


Run 2: Statistics of Indigo

```
Start at: 2019-06-27 08:29:12
End at: 2019-06-27 08:29:42
Local clock offset: 0.202 ms
Remote clock offset: -39.901 ms

# Below is generated by plot.py at 2019-06-27 10:54:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 162.15 Mbit/s
95th percentile per-packet one-way delay: 76.045 ms
Loss rate: 15.18%
-- Flow 1:
Average throughput: 74.75 Mbit/s
95th percentile per-packet one-way delay: 75.080 ms
Loss rate: 8.79%
-- Flow 2:
Average throughput: 87.91 Mbit/s
95th percentile per-packet one-way delay: 80.369 ms
Loss rate: 15.88%
-- Flow 3:
Average throughput: 92.20 Mbit/s
95th percentile per-packet one-way delay: 65.318 ms
Loss rate: 26.90%
```

Run 2: Report of Indigo — Data Link

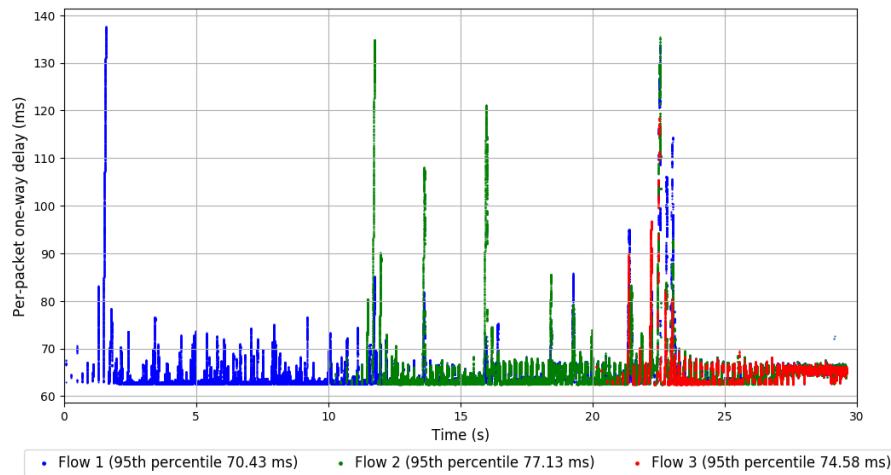
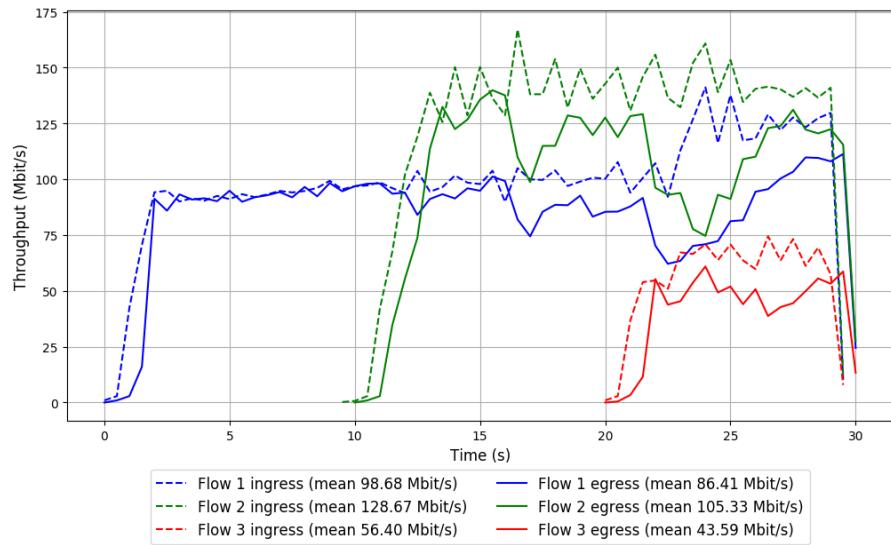


Run 3: Statistics of Indigo

```
Start at: 2019-06-27 09:10:29
End at: 2019-06-27 09:10:59
Local clock offset: -1.02 ms
Remote clock offset: -39.889 ms

# Below is generated by plot.py at 2019-06-27 10:54:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 170.13 Mbit/s
95th percentile per-packet one-way delay: 72.566 ms
Loss rate: 15.75%
-- Flow 1:
Average throughput: 86.41 Mbit/s
95th percentile per-packet one-way delay: 70.432 ms
Loss rate: 12.42%
-- Flow 2:
Average throughput: 105.33 Mbit/s
95th percentile per-packet one-way delay: 77.134 ms
Loss rate: 18.13%
-- Flow 3:
Average throughput: 43.59 Mbit/s
95th percentile per-packet one-way delay: 74.579 ms
Loss rate: 22.70%
```

Run 3: Report of Indigo — Data Link

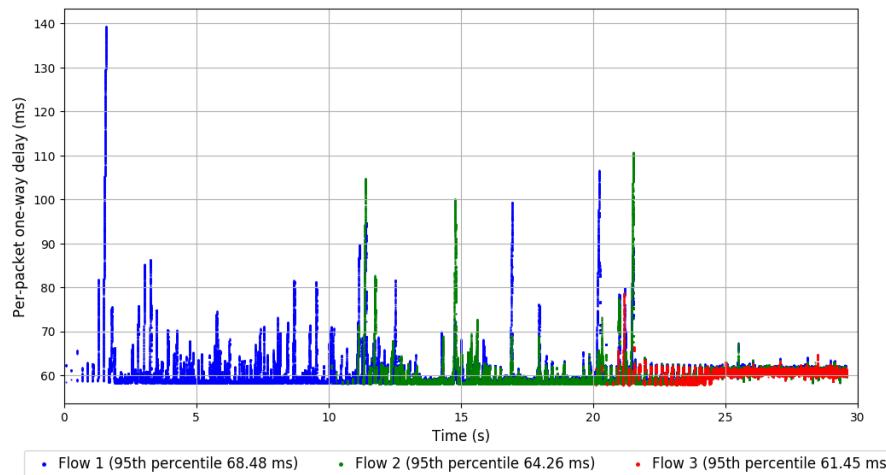
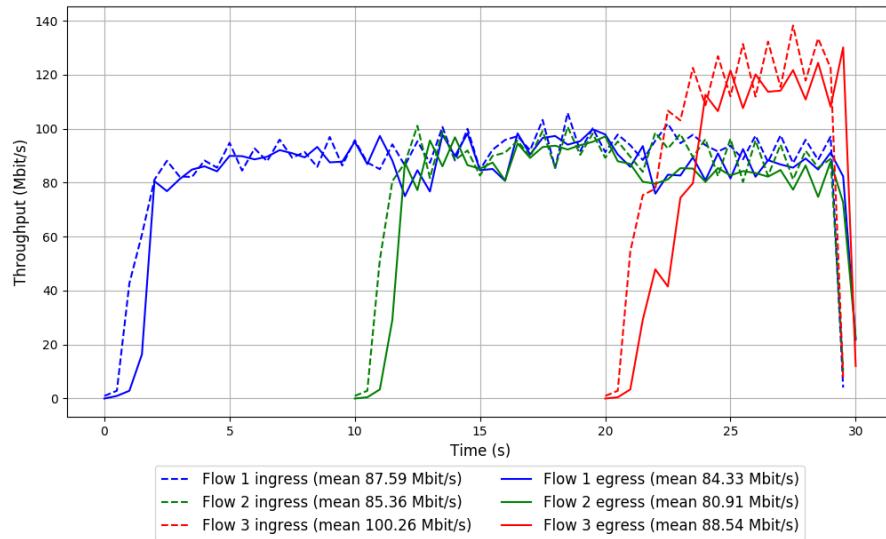


Run 4: Statistics of Indigo

```
Start at: 2019-06-27 09:42:30
End at: 2019-06-27 09:43:00
Local clock offset: -1.356 ms
Remote clock offset: -44.227 ms

# Below is generated by plot.py at 2019-06-27 10:54:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 166.17 Mbit/s
95th percentile per-packet one-way delay: 65.078 ms
Loss rate: 5.64%
-- Flow 1:
Average throughput: 84.33 Mbit/s
95th percentile per-packet one-way delay: 68.480 ms
Loss rate: 3.71%
-- Flow 2:
Average throughput: 80.91 Mbit/s
95th percentile per-packet one-way delay: 64.261 ms
Loss rate: 5.20%
-- Flow 3:
Average throughput: 88.54 Mbit/s
95th percentile per-packet one-way delay: 61.455 ms
Loss rate: 11.66%
```

Run 4: Report of Indigo — Data Link

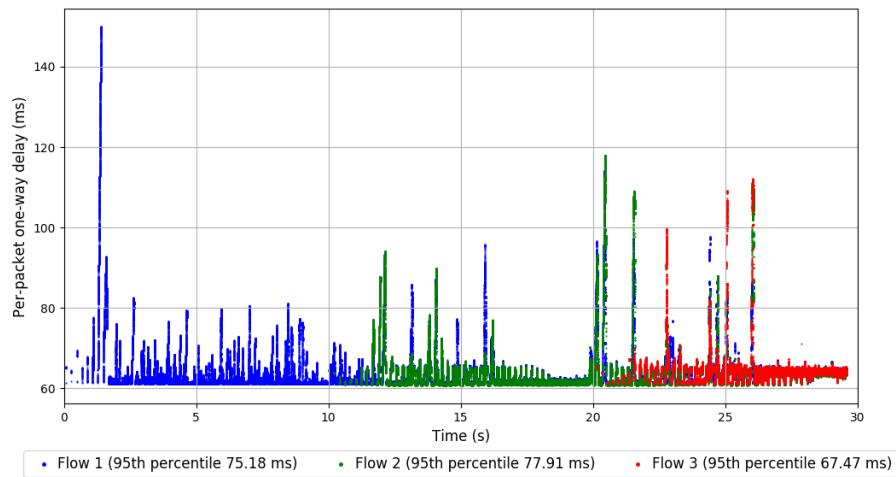
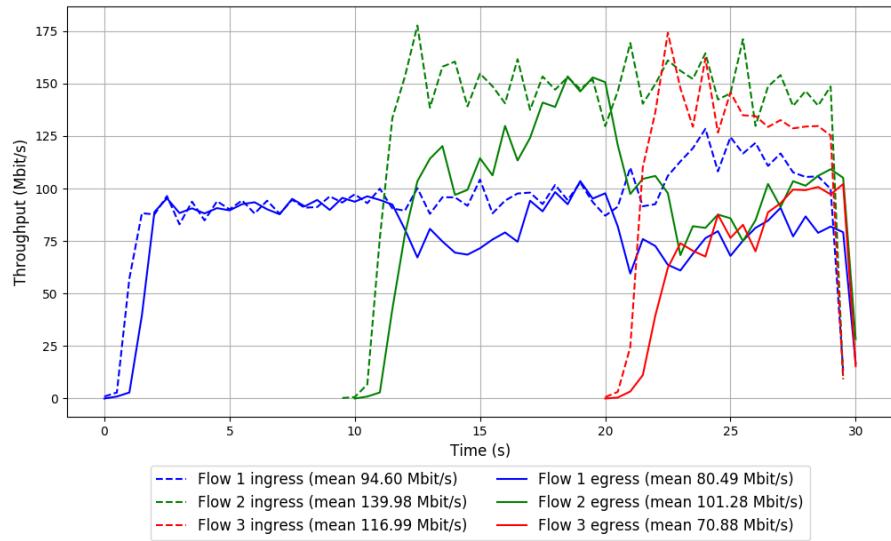


Run 5: Statistics of Indigo

```
Start at: 2019-06-27 10:14:22
End at: 2019-06-27 10:14:52
Local clock offset: 0.087 ms
Remote clock offset: -40.092 ms

# Below is generated by plot.py at 2019-06-27 10:54:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 170.34 Mbit/s
95th percentile per-packet one-way delay: 75.260 ms
Loss rate: 24.25%
-- Flow 1:
Average throughput: 80.49 Mbit/s
95th percentile per-packet one-way delay: 75.180 ms
Loss rate: 14.91%
-- Flow 2:
Average throughput: 101.28 Mbit/s
95th percentile per-packet one-way delay: 77.909 ms
Loss rate: 27.64%
-- Flow 3:
Average throughput: 70.88 Mbit/s
95th percentile per-packet one-way delay: 67.475 ms
Loss rate: 39.42%
```

Run 5: Report of Indigo — Data Link

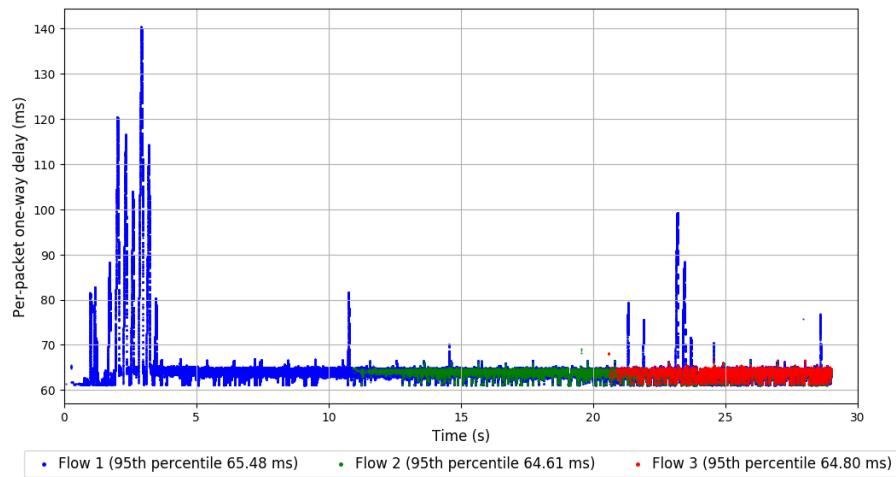
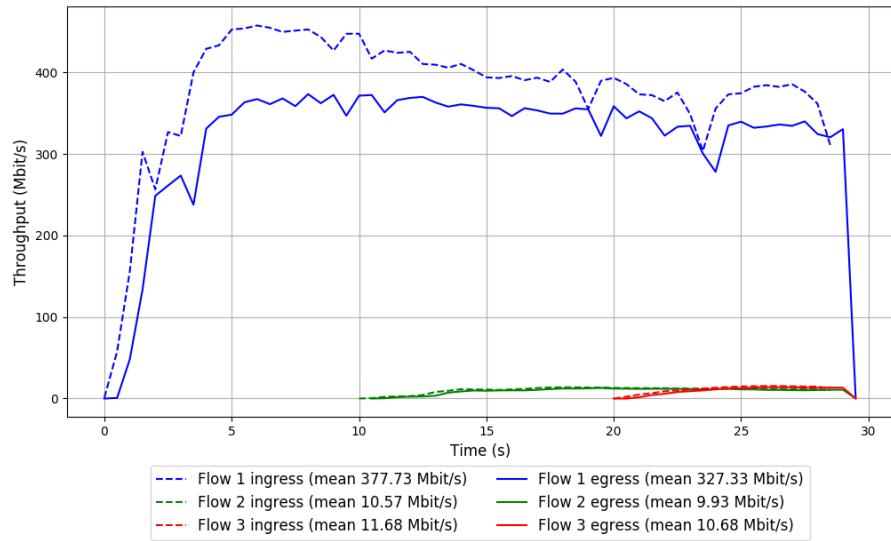


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 08:06:20
End at: 2019-06-27 08:06:50
Local clock offset: -0.078 ms
Remote clock offset: -40.117 ms

# Below is generated by plot.py at 2019-06-27 10:55:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 336.77 Mbit/s
95th percentile per-packet one-way delay: 65.339 ms
Loss rate: 13.21%
-- Flow 1:
Average throughput: 327.33 Mbit/s
95th percentile per-packet one-way delay: 65.482 ms
Loss rate: 13.33%
-- Flow 2:
Average throughput: 9.93 Mbit/s
95th percentile per-packet one-way delay: 64.605 ms
Loss rate: 8.54%
-- Flow 3:
Average throughput: 10.68 Mbit/s
95th percentile per-packet one-way delay: 64.801 ms
Loss rate: 8.56%
```

Run 1: Report of Indigo-MusesC3 — Data Link

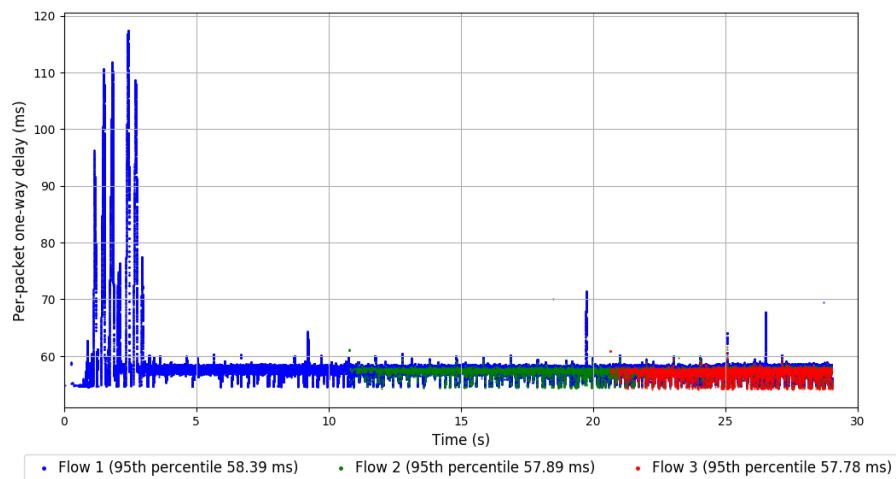
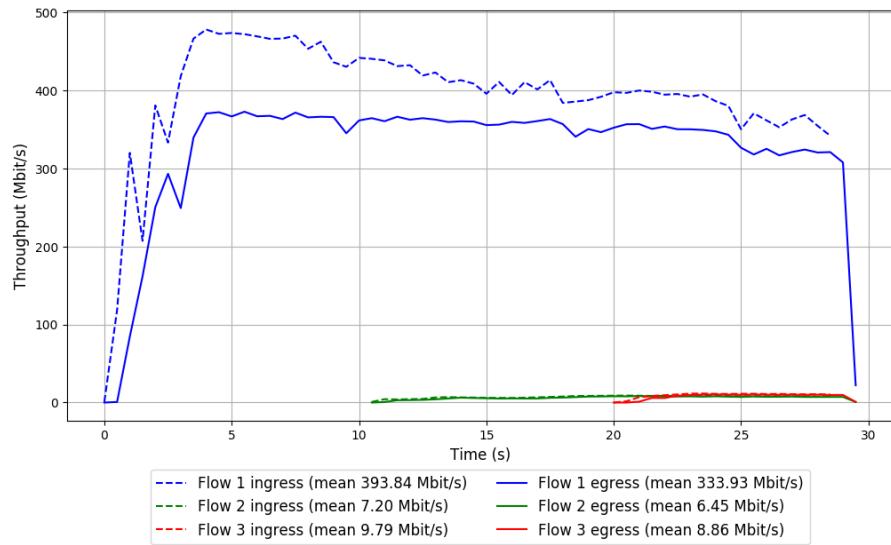


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 08:38:12
End at: 2019-06-27 08:38:42
Local clock offset: -0.848 ms
Remote clock offset: -47.504 ms

# Below is generated by plot.py at 2019-06-27 10:55:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.67 Mbit/s
95th percentile per-packet one-way delay: 58.376 ms
Loss rate: 15.11%
-- Flow 1:
Average throughput: 333.93 Mbit/s
95th percentile per-packet one-way delay: 58.387 ms
Loss rate: 15.21%
-- Flow 2:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 57.892 ms
Loss rate: 10.36%
-- Flow 3:
Average throughput: 8.86 Mbit/s
95th percentile per-packet one-way delay: 57.779 ms
Loss rate: 9.57%
```

Run 2: Report of Indigo-MusesC3 — Data Link

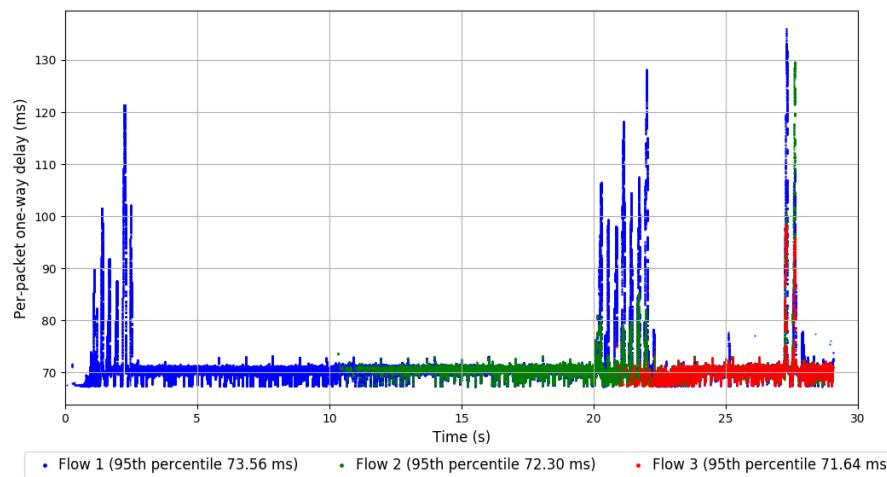
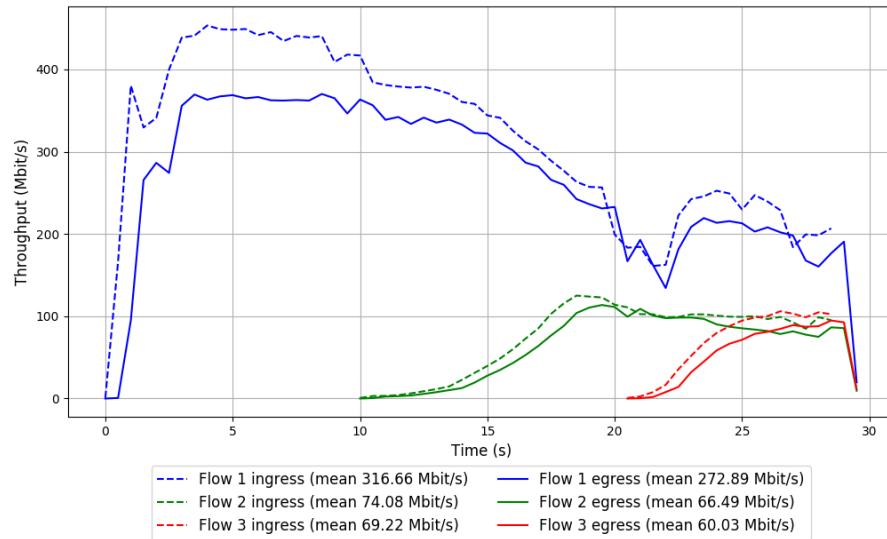


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 09:19:33
End at: 2019-06-27 09:20:03
Local clock offset: -0.681 ms
Remote clock offset: -34.632 ms

# Below is generated by plot.py at 2019-06-27 10:55:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 333.62 Mbit/s
95th percentile per-packet one-way delay: 73.002 ms
Loss rate: 13.33%
-- Flow 1:
Average throughput: 272.89 Mbit/s
95th percentile per-packet one-way delay: 73.555 ms
Loss rate: 13.81%
-- Flow 2:
Average throughput: 66.49 Mbit/s
95th percentile per-packet one-way delay: 72.304 ms
Loss rate: 10.24%
-- Flow 3:
Average throughput: 60.03 Mbit/s
95th percentile per-packet one-way delay: 71.639 ms
Loss rate: 13.27%
```

Run 3: Report of Indigo-MusesC3 — Data Link

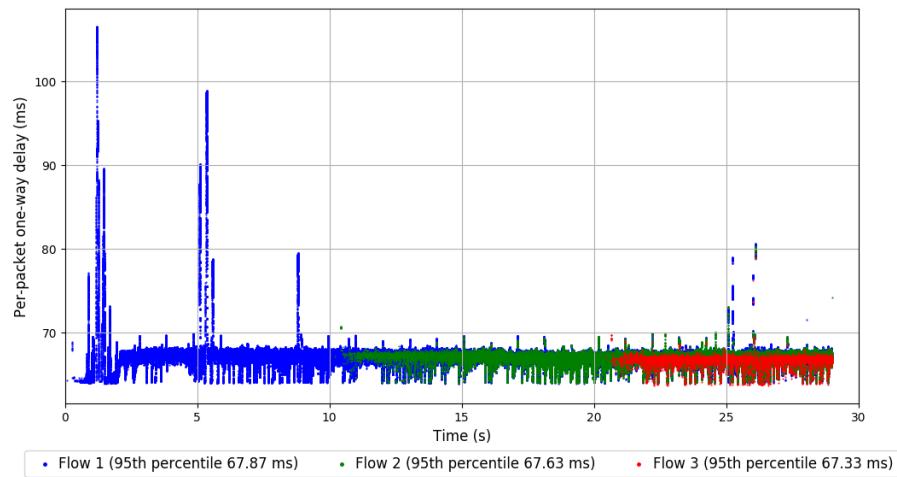
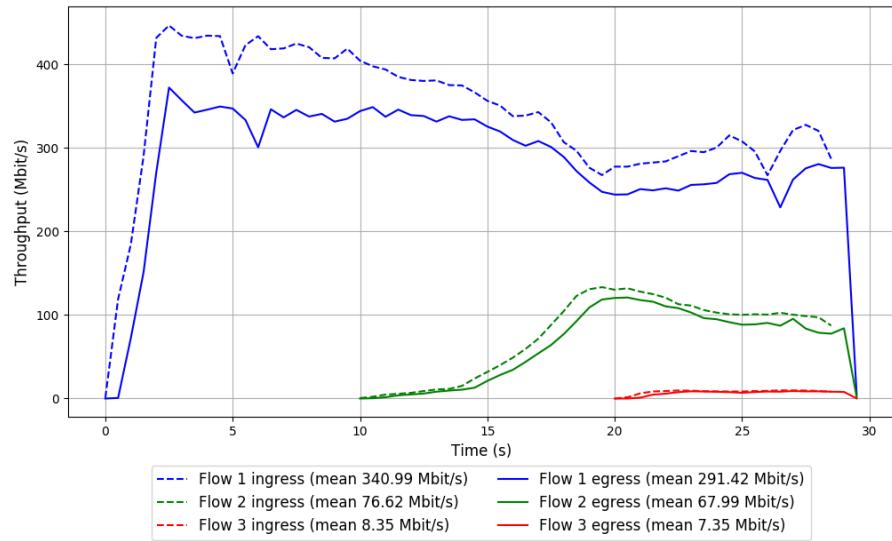


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 09:51:26
End at: 2019-06-27 09:51:56
Local clock offset: 0.221 ms
Remote clock offset: -36.77 ms

# Below is generated by plot.py at 2019-06-27 10:55:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.67 Mbit/s
95th percentile per-packet one-way delay: 67.840 ms
Loss rate: 14.10%
-- Flow 1:
Average throughput: 291.42 Mbit/s
95th percentile per-packet one-way delay: 67.870 ms
Loss rate: 14.53%
-- Flow 2:
Average throughput: 67.99 Mbit/s
95th percentile per-packet one-way delay: 67.632 ms
Loss rate: 11.23%
-- Flow 3:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 67.328 ms
Loss rate: 12.05%
```

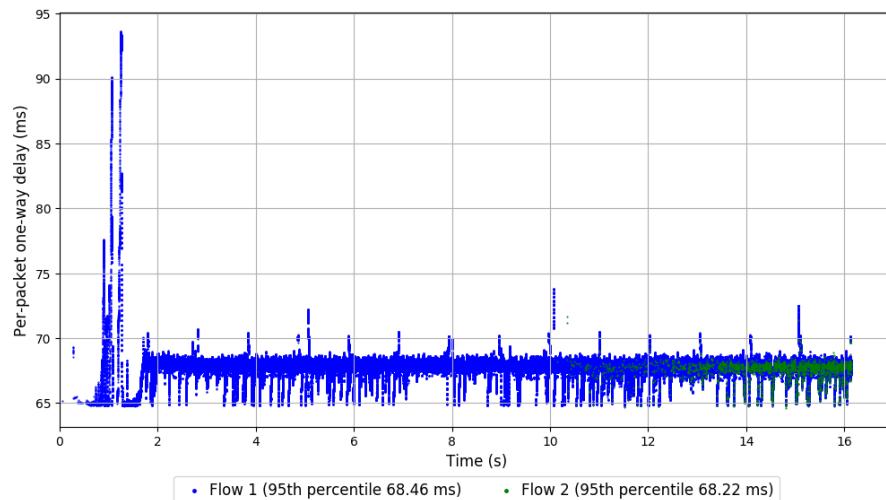
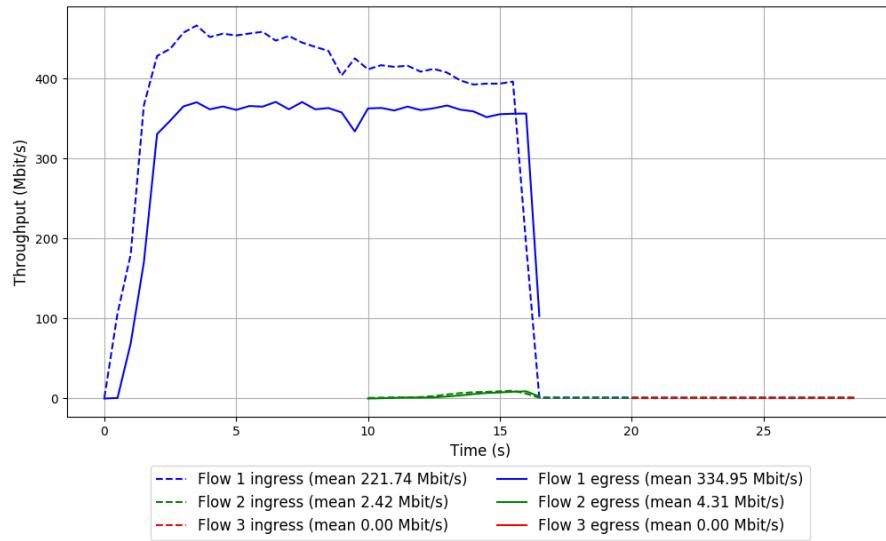
Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-06-27 10:33:09
End at: 2019-06-27 10:33:39
Local clock offset: -1.03 ms
Remote clock offset: -37.935 ms

Run 5: Report of Indigo-MusesC3 — Data Link

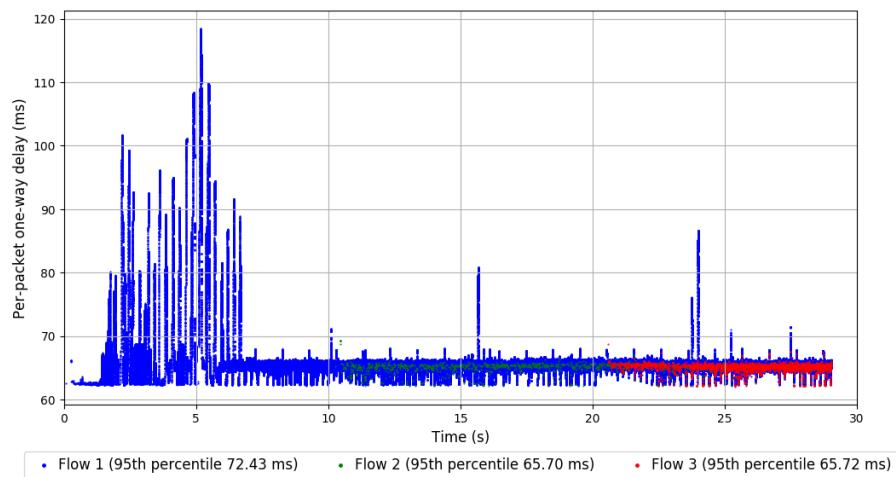
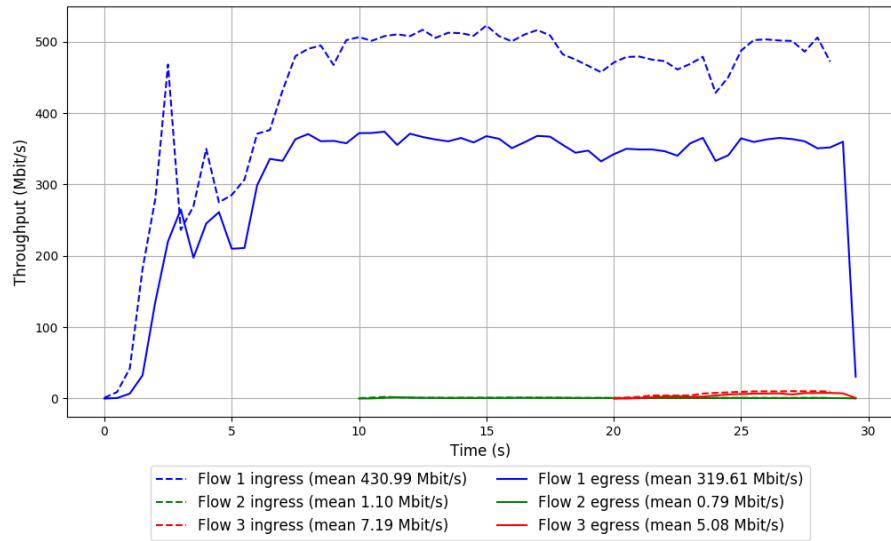


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 08:00:27
End at: 2019-06-27 08:00:57
Local clock offset: -0.756 ms
Remote clock offset: -39.663 ms

# Below is generated by plot.py at 2019-06-27 10:57:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 321.64 Mbit/s
95th percentile per-packet one-way delay: 72.313 ms
Loss rate: 25.85%
-- Flow 1:
Average throughput: 319.61 Mbit/s
95th percentile per-packet one-way delay: 72.429 ms
Loss rate: 25.83%
-- Flow 2:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 65.705 ms
Loss rate: 28.23%
-- Flow 3:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 65.719 ms
Loss rate: 29.35%
```

Run 1: Report of Indigo-MusesC5 — Data Link

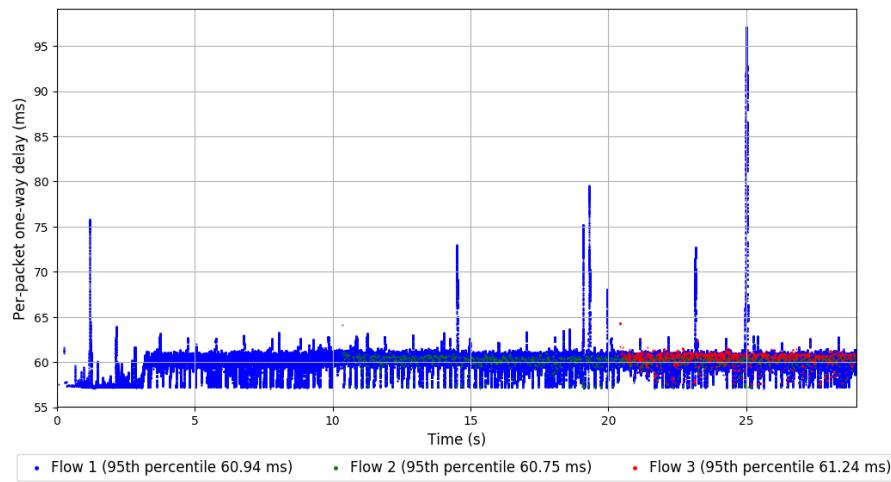
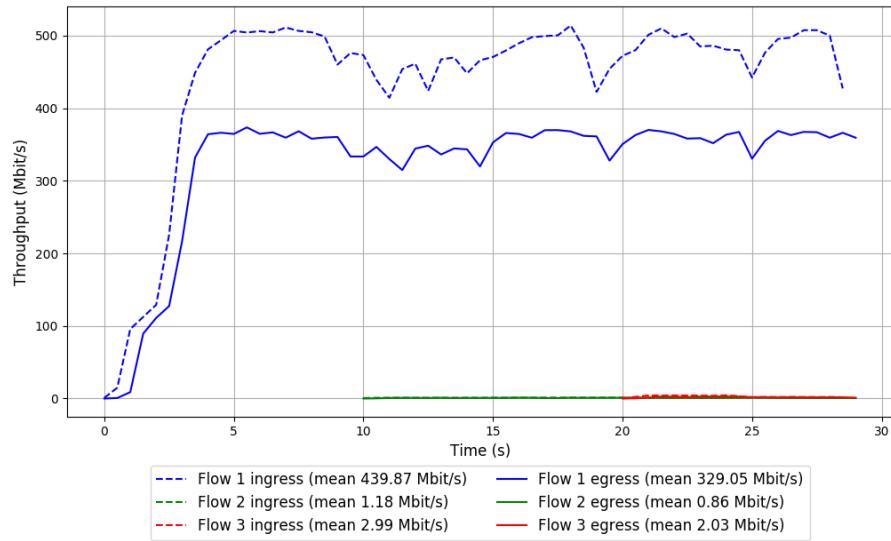


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 08:32:15
End at: 2019-06-27 08:32:45
Local clock offset: -0.771 ms
Remote clock offset: -44.507 ms

# Below is generated by plot.py at 2019-06-27 10:58:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 330.23 Mbit/s
95th percentile per-packet one-way delay: 60.939 ms
Loss rate: 25.20%
-- Flow 1:
Average throughput: 329.05 Mbit/s
95th percentile per-packet one-way delay: 60.938 ms
Loss rate: 25.19%
-- Flow 2:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 60.749 ms
Loss rate: 27.13%
-- Flow 3:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 61.244 ms
Loss rate: 31.98%
```

Run 2: Report of Indigo-MusesC5 — Data Link

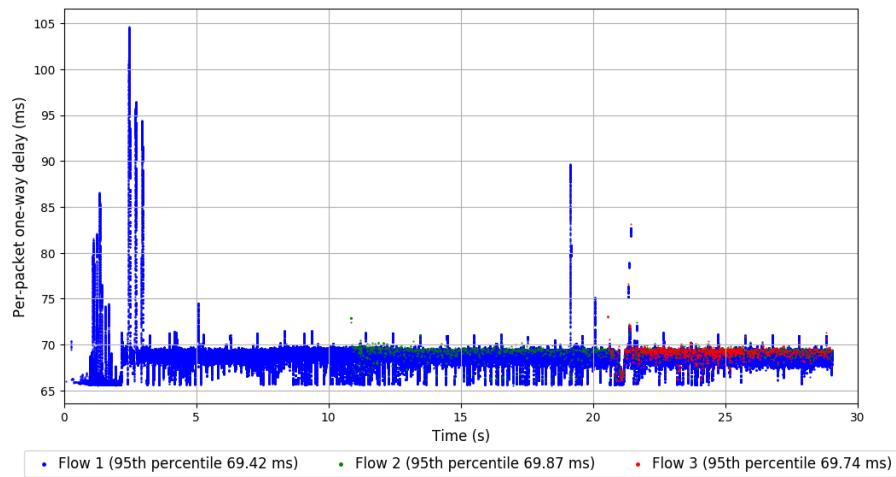
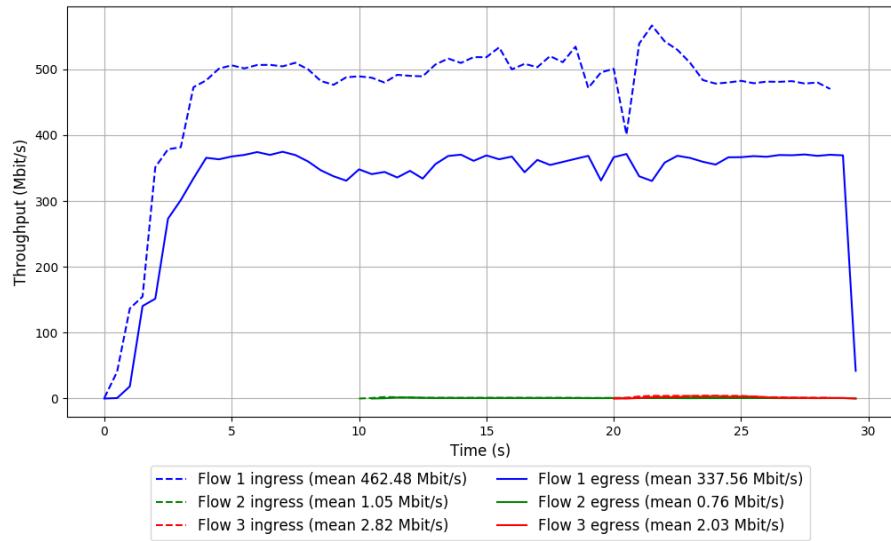


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 09:13:32
End at: 2019-06-27 09:14:03
Local clock offset: 0.128 ms
Remote clock offset: -35.272 ms

# Below is generated by plot.py at 2019-06-27 10:58:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.65 Mbit/s
95th percentile per-packet one-way delay: 69.428 ms
Loss rate: 27.01%
-- Flow 1:
Average throughput: 337.56 Mbit/s
95th percentile per-packet one-way delay: 69.423 ms
Loss rate: 27.00%
-- Flow 2:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 69.867 ms
Loss rate: 29.18%
-- Flow 3:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 69.739 ms
Loss rate: 28.33%
```

Run 3: Report of Indigo-MusesC5 — Data Link

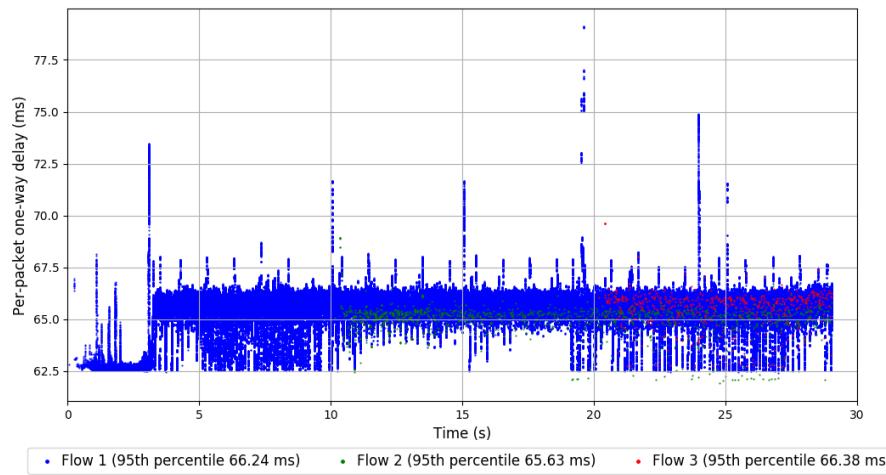
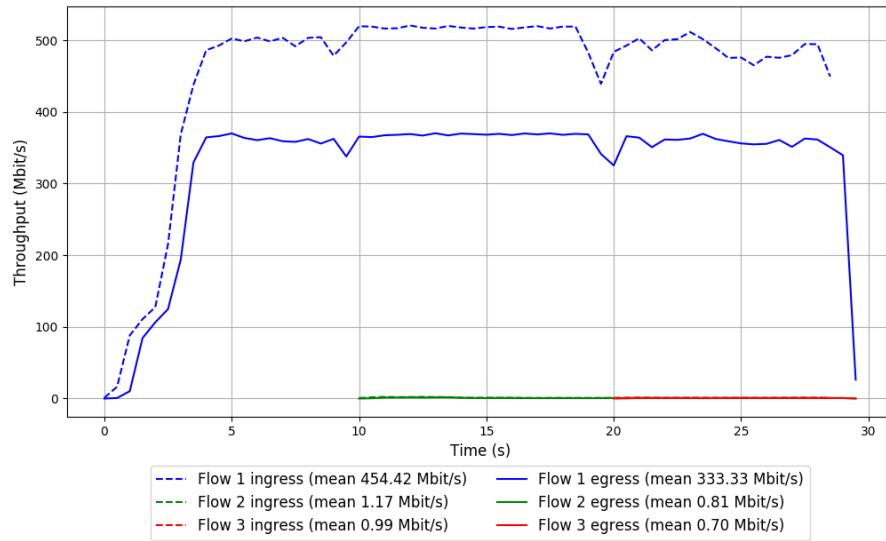


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 09:45:33
End at: 2019-06-27 09:46:03
Local clock offset: -0.586 ms
Remote clock offset: -39.035 ms

# Below is generated by plot.py at 2019-06-27 10:59:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 334.07 Mbit/s
95th percentile per-packet one-way delay: 66.240 ms
Loss rate: 26.65%
-- Flow 1:
Average throughput: 333.33 Mbit/s
95th percentile per-packet one-way delay: 66.240 ms
Loss rate: 26.64%
-- Flow 2:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 65.632 ms
Loss rate: 30.90%
-- Flow 3:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 66.377 ms
Loss rate: 29.68%
```

Run 4: Report of Indigo-MusesC5 — Data Link

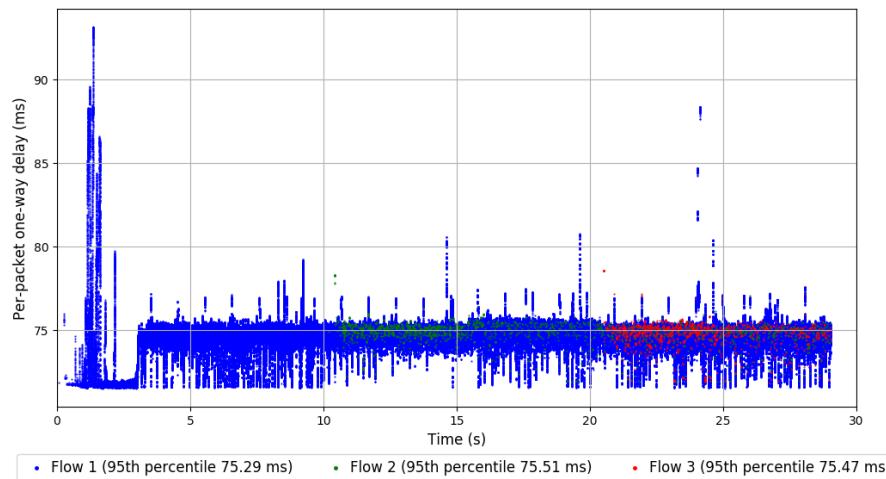
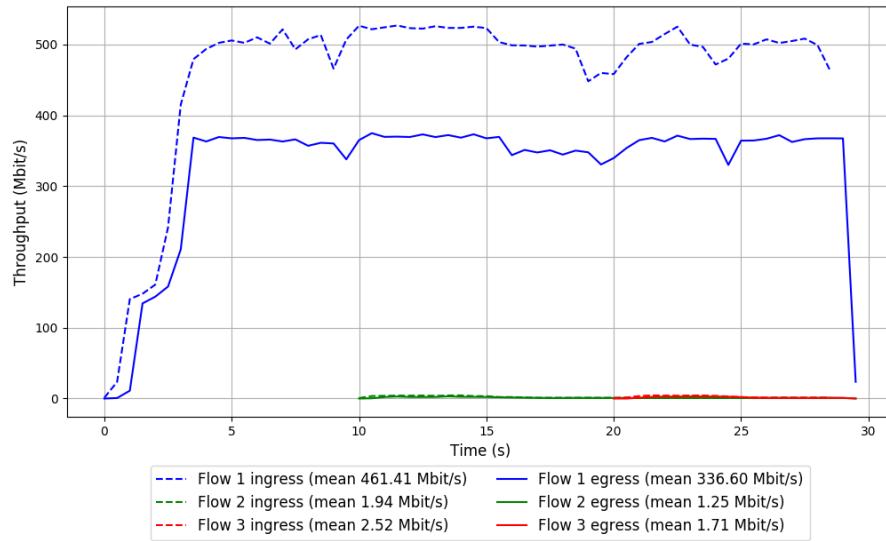


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 10:17:27
End at: 2019-06-27 10:17:57
Local clock offset: -0.635 ms
Remote clock offset: -30.15 ms

# Below is generated by plot.py at 2019-06-27 10:59:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.93 Mbit/s
95th percentile per-packet one-way delay: 75.290 ms
Loss rate: 27.07%
-- Flow 1:
Average throughput: 336.60 Mbit/s
95th percentile per-packet one-way delay: 75.288 ms
Loss rate: 27.04%
-- Flow 2:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 75.513 ms
Loss rate: 35.27%
-- Flow 3:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 75.469 ms
Loss rate: 32.06%
```

Run 5: Report of Indigo-MusesC5 — Data Link

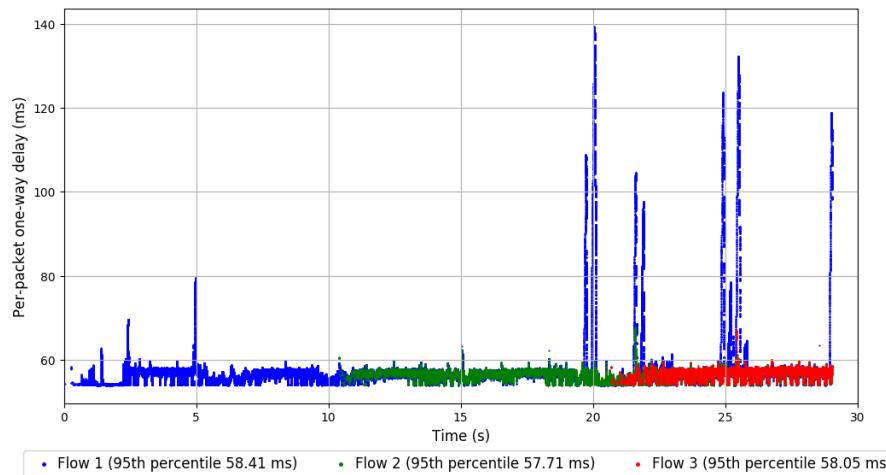
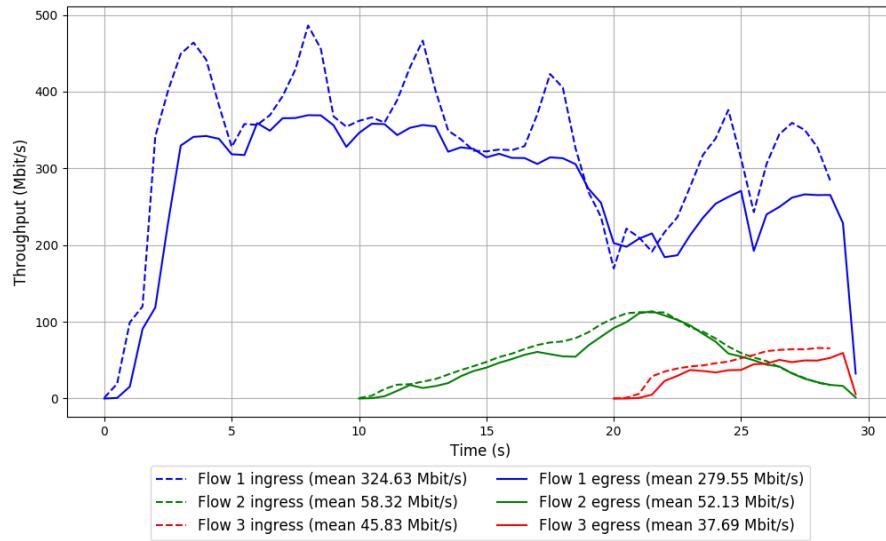


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-06-27 07:45:53
End at: 2019-06-27 07:46:23
Local clock offset: -0.192 ms
Remote clock offset: -47.048 ms

# Below is generated by plot.py at 2019-06-27 10:59:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.56 Mbit/s
95th percentile per-packet one-way delay: 58.159 ms
Loss rate: 13.67%
-- Flow 1:
Average throughput: 279.55 Mbit/s
95th percentile per-packet one-way delay: 58.415 ms
Loss rate: 13.86%
-- Flow 2:
Average throughput: 52.13 Mbit/s
95th percentile per-packet one-way delay: 57.708 ms
Loss rate: 10.59%
-- Flow 3:
Average throughput: 37.69 Mbit/s
95th percentile per-packet one-way delay: 58.046 ms
Loss rate: 17.77%
```

Run 1: Report of Indigo-MusesD — Data Link

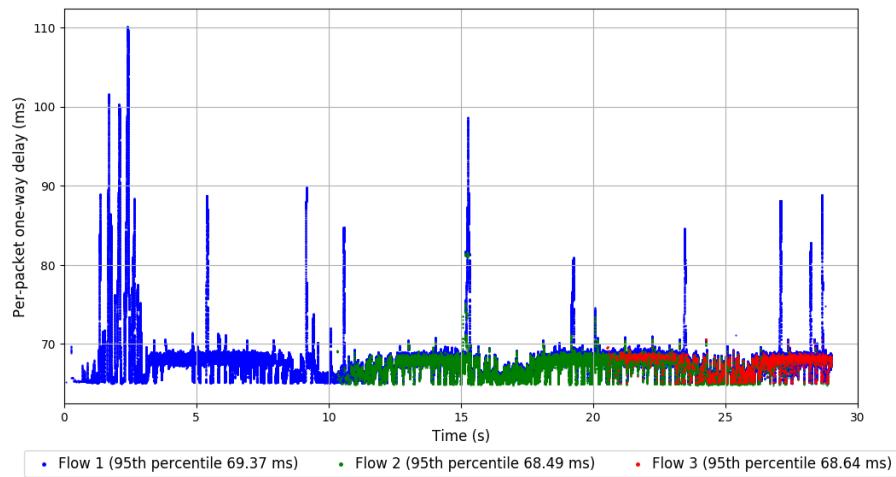
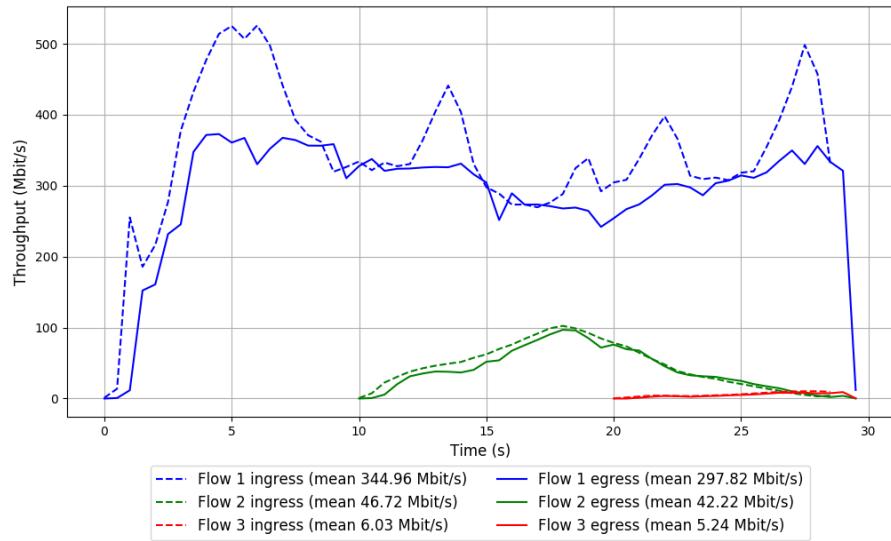


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 08:17:41
End at: 2019-06-27 08:18:11
Local clock offset: 0.146 ms
Remote clock offset: -36.115 ms

# Below is generated by plot.py at 2019-06-27 10:59:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.93 Mbit/s
95th percentile per-packet one-way delay: 69.151 ms
Loss rate: 13.33%
-- Flow 1:
Average throughput: 297.82 Mbit/s
95th percentile per-packet one-way delay: 69.371 ms
Loss rate: 13.66%
-- Flow 2:
Average throughput: 42.22 Mbit/s
95th percentile per-packet one-way delay: 68.489 ms
Loss rate: 9.62%
-- Flow 3:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 68.644 ms
Loss rate: 13.08%
```

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

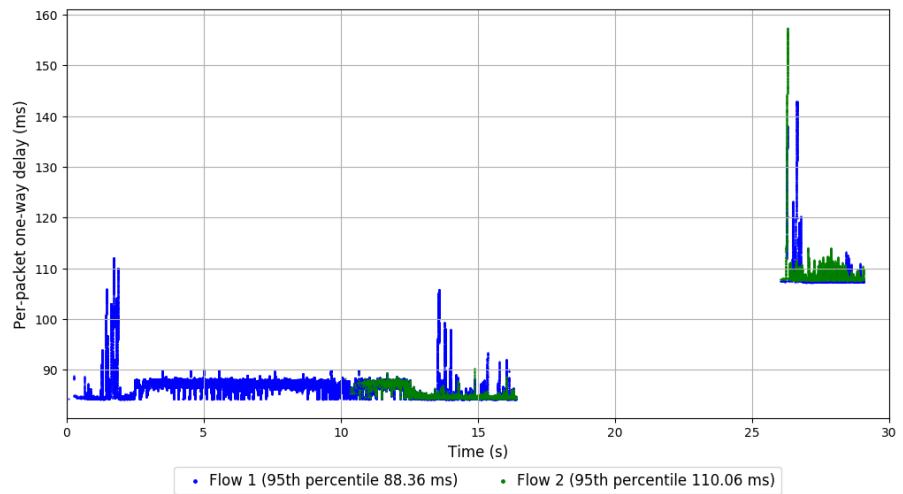
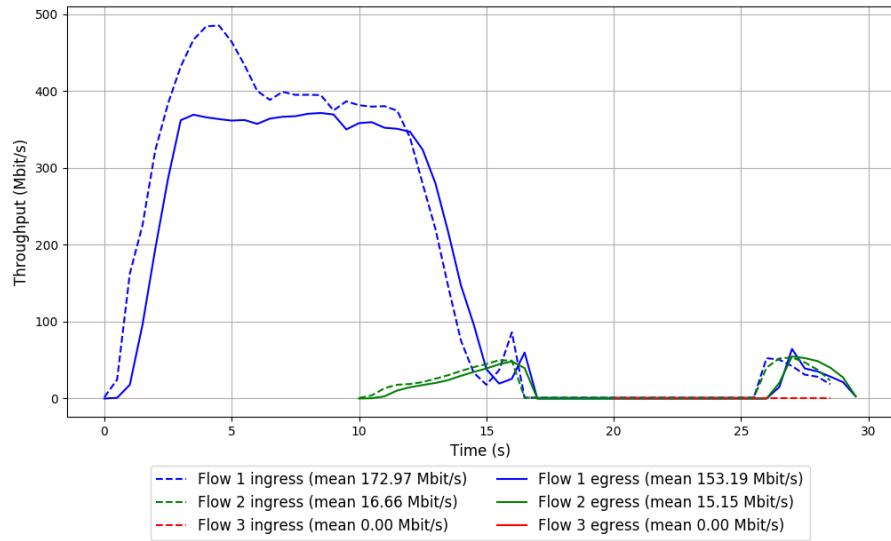
Start at: 2019-06-27 08:58:59

End at: 2019-06-27 08:59:29

Local clock offset: 0.478 ms

Remote clock offset: 9.241 ms

Run 3: Report of Indigo-MusesD — Data Link

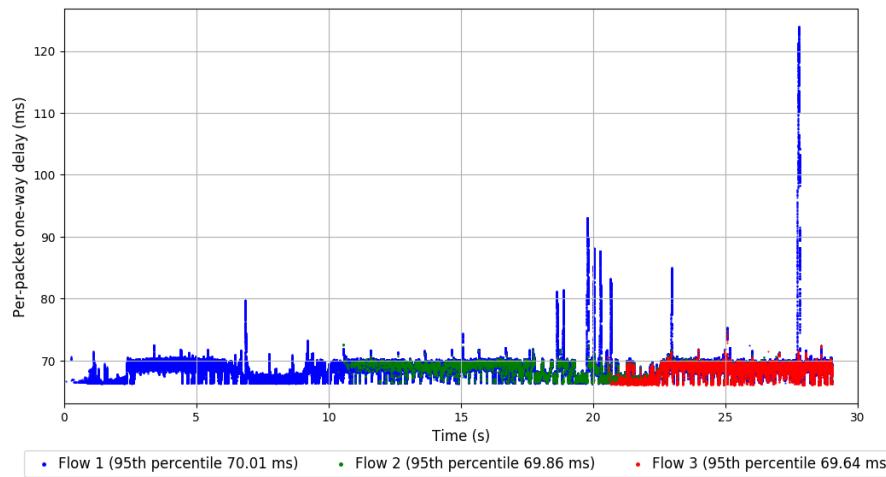
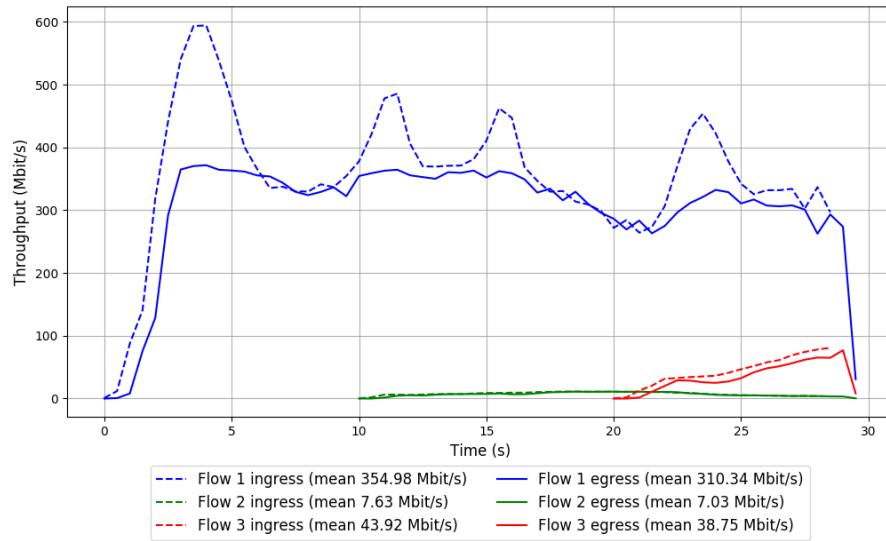


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 09:30:56
End at: 2019-06-27 09:31:26
Local clock offset: -0.23 ms
Remote clock offset: -34.913 ms

# Below is generated by plot.py at 2019-06-27 11:01:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.52 Mbit/s
95th percentile per-packet one-way delay: 69.996 ms
Loss rate: 12.49%
-- Flow 1:
Average throughput: 310.34 Mbit/s
95th percentile per-packet one-way delay: 70.007 ms
Loss rate: 12.58%
-- Flow 2:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 69.858 ms
Loss rate: 7.89%
-- Flow 3:
Average throughput: 38.75 Mbit/s
95th percentile per-packet one-way delay: 69.639 ms
Loss rate: 11.79%
```

Run 4: Report of Indigo-MusesD — Data Link

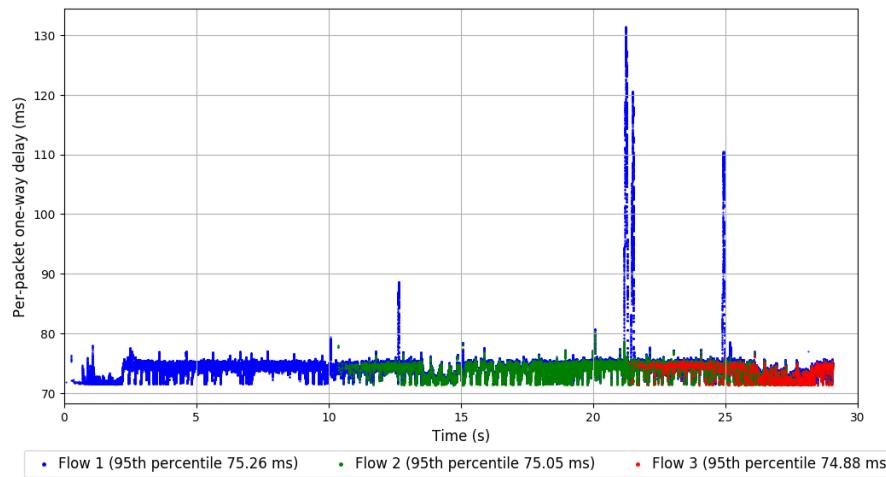
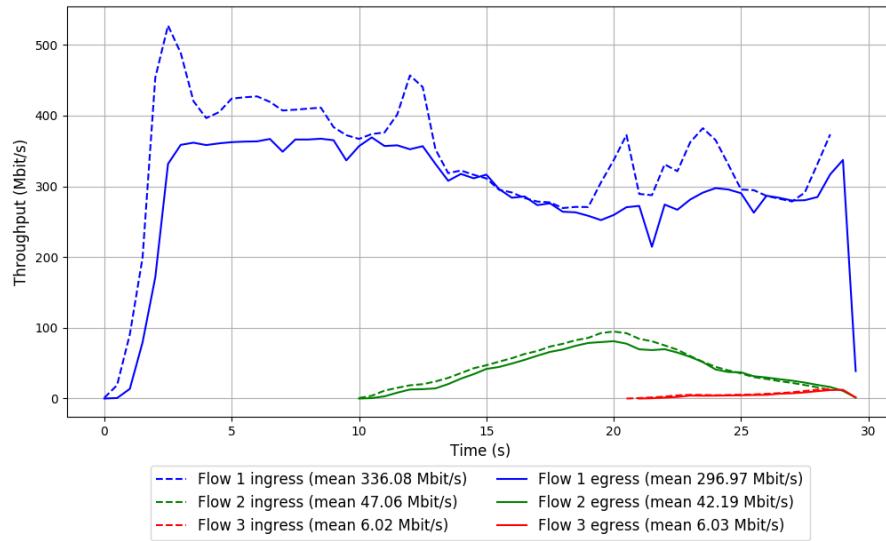


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 10:02:48
End at: 2019-06-27 10:03:18
Local clock offset: -0.537 ms
Remote clock offset: -30.187 ms

# Below is generated by plot.py at 2019-06-27 11:01:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.14 Mbit/s
95th percentile per-packet one-way delay: 75.243 ms
Loss rate: 11.49%
-- Flow 1:
Average throughput: 296.97 Mbit/s
95th percentile per-packet one-way delay: 75.256 ms
Loss rate: 11.63%
-- Flow 2:
Average throughput: 42.19 Mbit/s
95th percentile per-packet one-way delay: 75.053 ms
Loss rate: 10.34%
-- Flow 3:
Average throughput: 6.03 Mbit/s
95th percentile per-packet one-way delay: 74.876 ms
Loss rate: 5.83%
```

Run 5: Report of Indigo-MusesD — Data Link

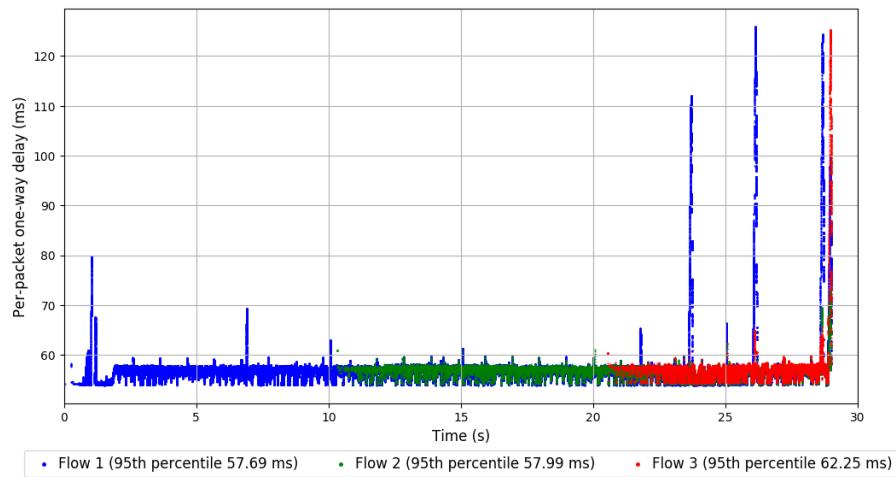
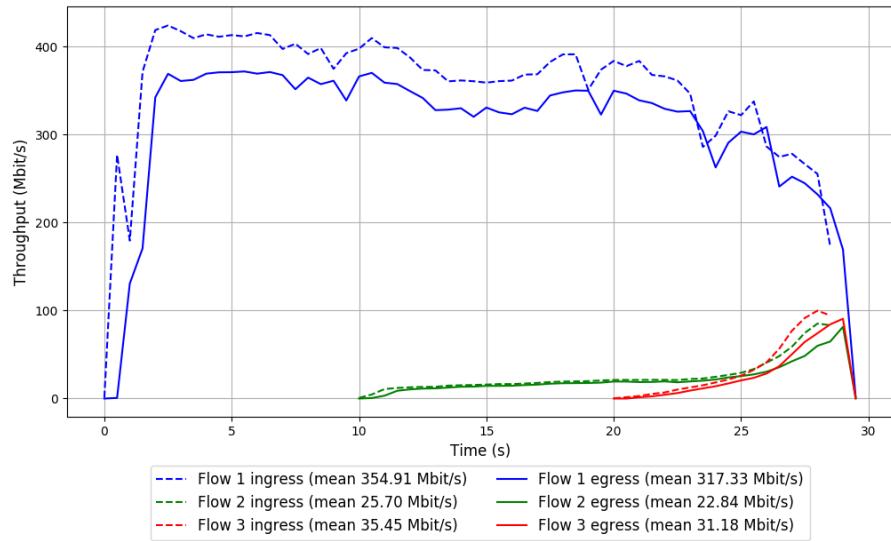


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 07:44:17
End at: 2019-06-27 07:44:47
Local clock offset: 0.361 ms
Remote clock offset: -46.726 ms

# Below is generated by plot.py at 2019-06-27 11:02:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 341.55 Mbit/s
95th percentile per-packet one-way delay: 57.740 ms
Loss rate: 10.64%
-- Flow 1:
Average throughput: 317.33 Mbit/s
95th percentile per-packet one-way delay: 57.690 ms
Loss rate: 10.58%
-- Flow 2:
Average throughput: 22.84 Mbit/s
95th percentile per-packet one-way delay: 57.990 ms
Loss rate: 11.16%
-- Flow 3:
Average throughput: 31.18 Mbit/s
95th percentile per-packet one-way delay: 62.246 ms
Loss rate: 12.07%
```

Run 1: Report of Indigo-MusesT — Data Link

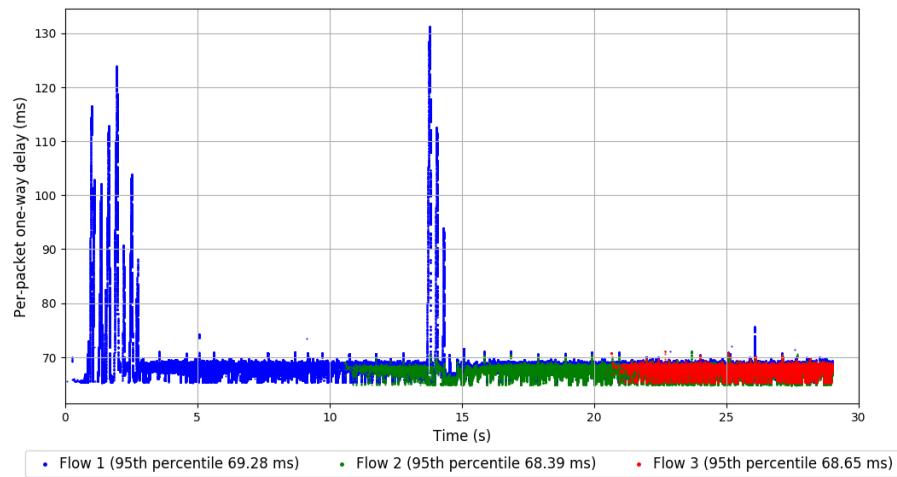
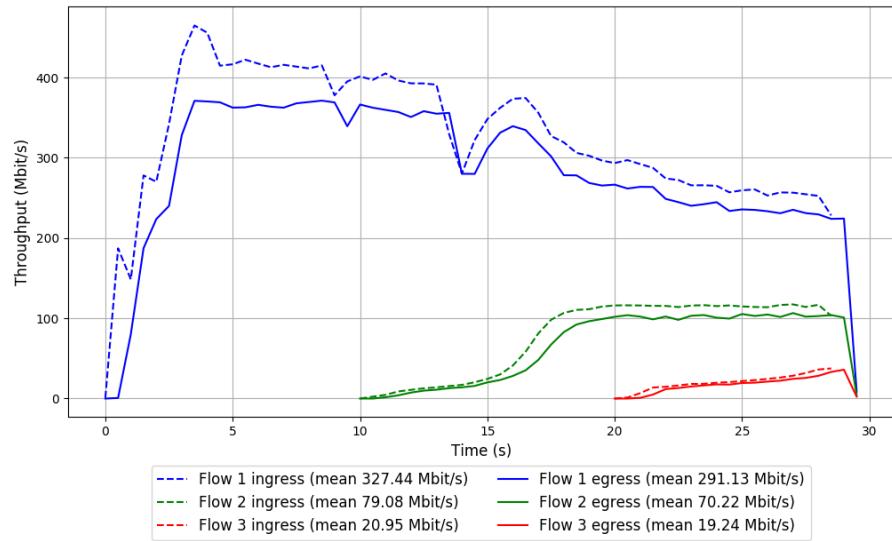


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 08:16:05
End at: 2019-06-27 08:16:35
Local clock offset: -0.664 ms
Remote clock offset: -36.742 ms

# Below is generated by plot.py at 2019-06-27 11:02:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 342.05 Mbit/s
95th percentile per-packet one-way delay: 69.115 ms
Loss rate: 11.05%
-- Flow 1:
Average throughput: 291.13 Mbit/s
95th percentile per-packet one-way delay: 69.280 ms
Loss rate: 11.08%
-- Flow 2:
Average throughput: 70.22 Mbit/s
95th percentile per-packet one-way delay: 68.388 ms
Loss rate: 11.23%
-- Flow 3:
Average throughput: 19.24 Mbit/s
95th percentile per-packet one-way delay: 68.647 ms
Loss rate: 8.12%
```

Run 2: Report of Indigo-MusesT — Data Link

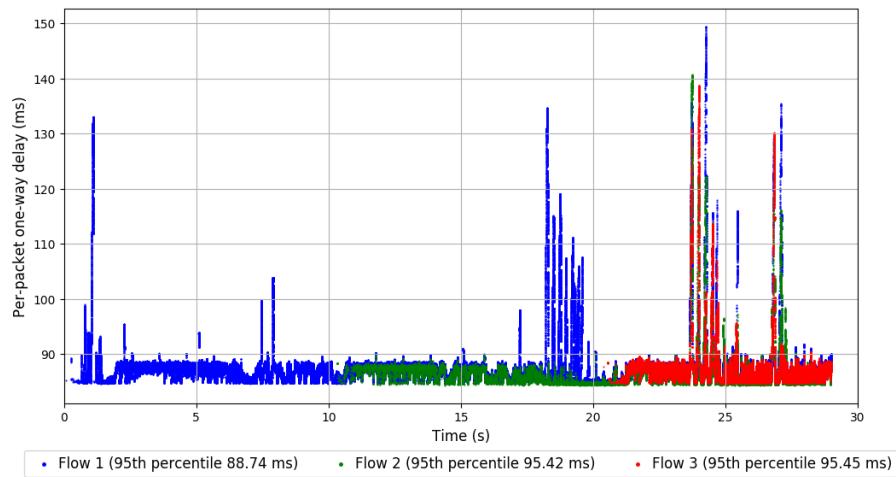
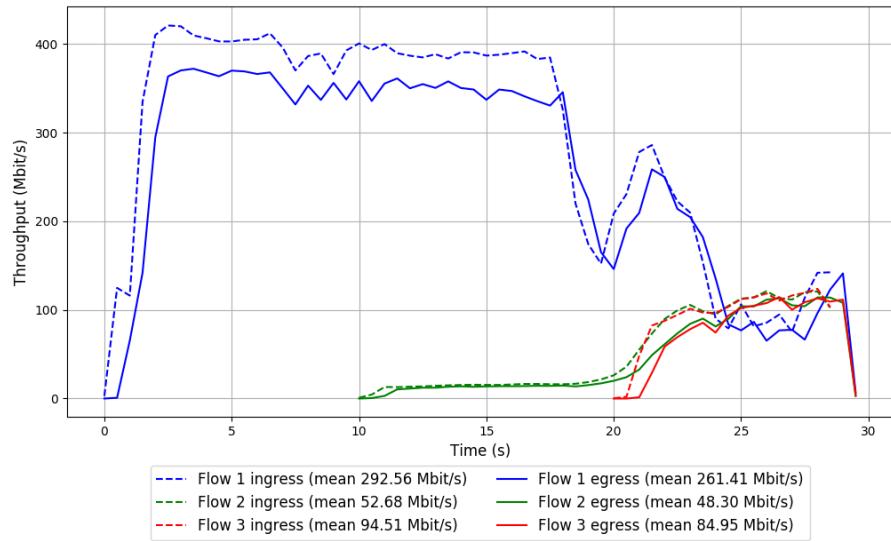


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 08:57:28
End at: 2019-06-27 08:57:58
Local clock offset: 0.189 ms
Remote clock offset: 9.168 ms

# Below is generated by plot.py at 2019-06-27 11:02:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.22 Mbit/s
95th percentile per-packet one-way delay: 89.459 ms
Loss rate: 10.38%
-- Flow 1:
Average throughput: 261.41 Mbit/s
95th percentile per-packet one-way delay: 88.743 ms
Loss rate: 10.64%
-- Flow 2:
Average throughput: 48.30 Mbit/s
95th percentile per-packet one-way delay: 95.424 ms
Loss rate: 8.31%
-- Flow 3:
Average throughput: 84.95 Mbit/s
95th percentile per-packet one-way delay: 95.451 ms
Loss rate: 10.12%
```

Run 3: Report of Indigo-MusesT — Data Link

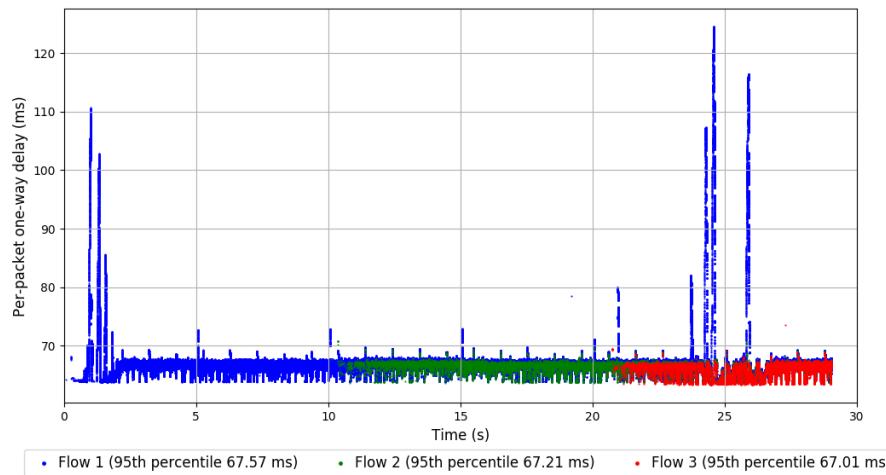
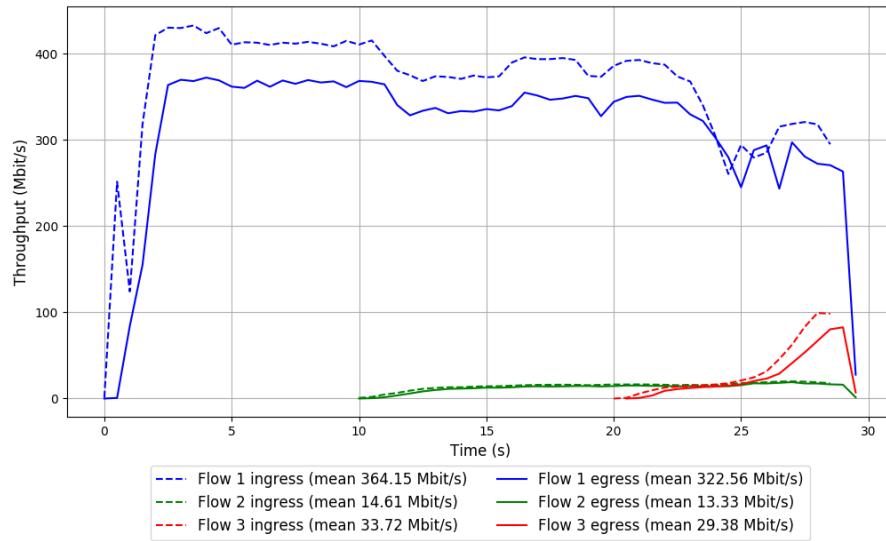


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 09:29:20
End at: 2019-06-27 09:29:50
Local clock offset: -1.802 ms
Remote clock offset: -39.184 ms

# Below is generated by plot.py at 2019-06-27 11:03:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 339.86 Mbit/s
95th percentile per-packet one-way delay: 67.552 ms
Loss rate: 11.39%
-- Flow 1:
Average throughput: 322.56 Mbit/s
95th percentile per-packet one-way delay: 67.568 ms
Loss rate: 11.42%
-- Flow 2:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 67.211 ms
Loss rate: 8.81%
-- Flow 3:
Average throughput: 29.38 Mbit/s
95th percentile per-packet one-way delay: 67.011 ms
Loss rate: 12.88%
```

Run 4: Report of Indigo-MusesT — Data Link

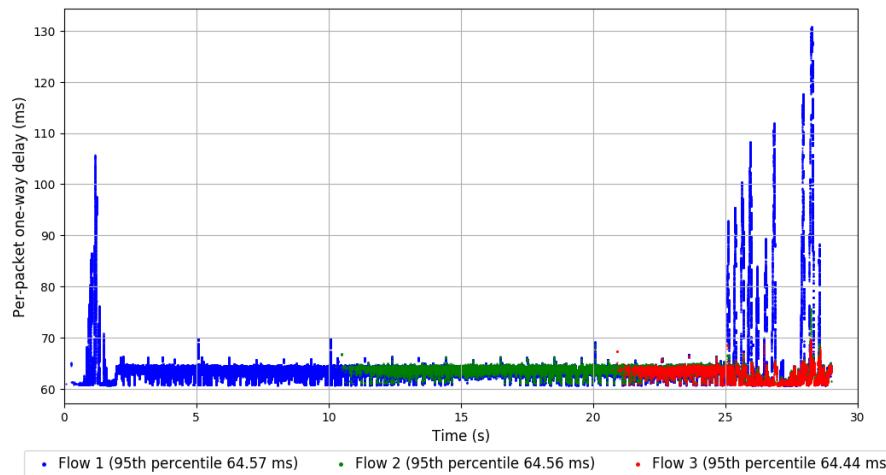
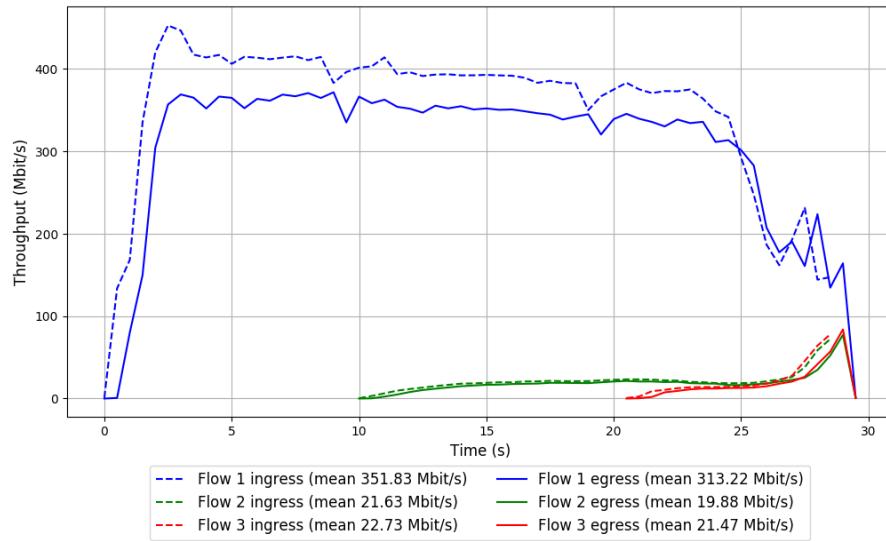


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 10:01:12
End at: 2019-06-27 10:01:42
Local clock offset: 0.417 ms
Remote clock offset: -39.677 ms

# Below is generated by plot.py at 2019-06-27 11:03:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 332.23 Mbit/s
95th percentile per-packet one-way delay: 64.565 ms
Loss rate: 10.76%
-- Flow 1:
Average throughput: 313.22 Mbit/s
95th percentile per-packet one-way delay: 64.571 ms
Loss rate: 10.97%
-- Flow 2:
Average throughput: 19.88 Mbit/s
95th percentile per-packet one-way delay: 64.559 ms
Loss rate: 8.09%
-- Flow 3:
Average throughput: 21.47 Mbit/s
95th percentile per-packet one-way delay: 64.436 ms
Loss rate: 5.52%
```

Run 5: Report of Indigo-MusesT — Data Link

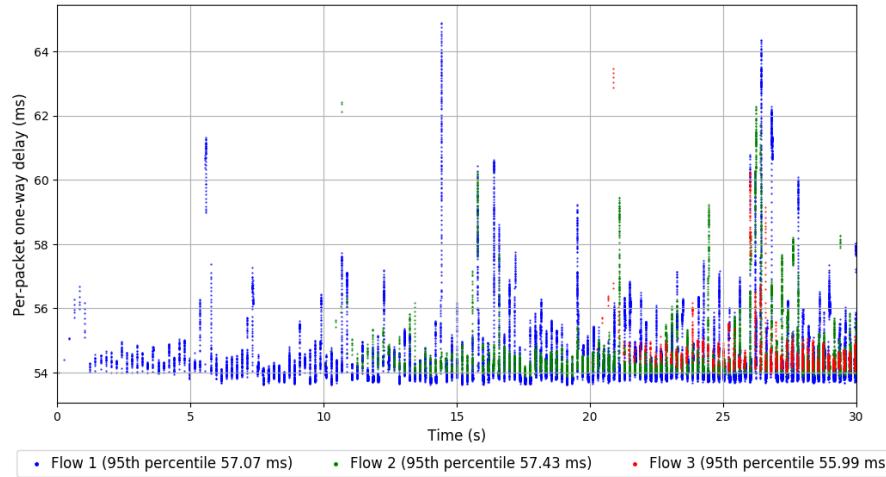
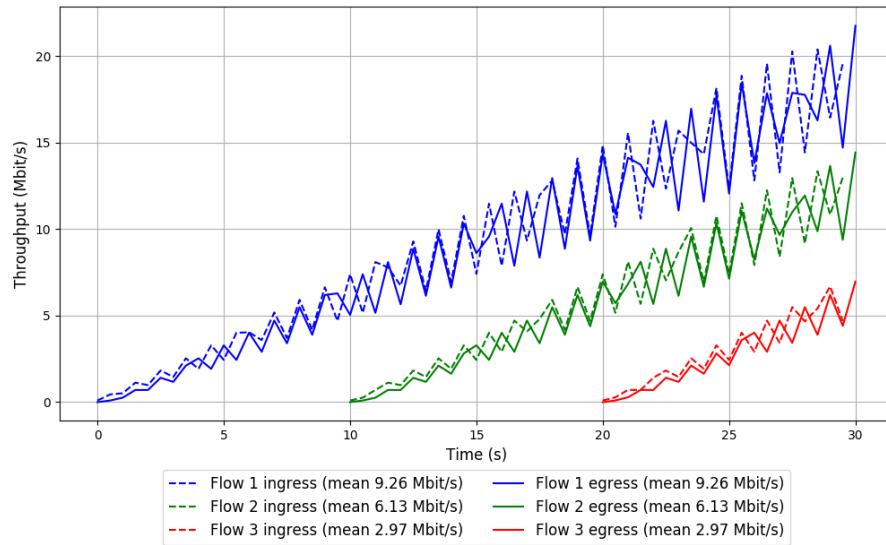


Run 1: Statistics of LEDBAT

```
Start at: 2019-06-27 08:02:01
End at: 2019-06-27 08:02:31
Local clock offset: -0.302 ms
Remote clock offset: -47.529 ms

# Below is generated by plot.py at 2019-06-27 11:03:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 57.072 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.26 Mbit/s
95th percentile per-packet one-way delay: 57.072 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 57.430 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 55.993 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

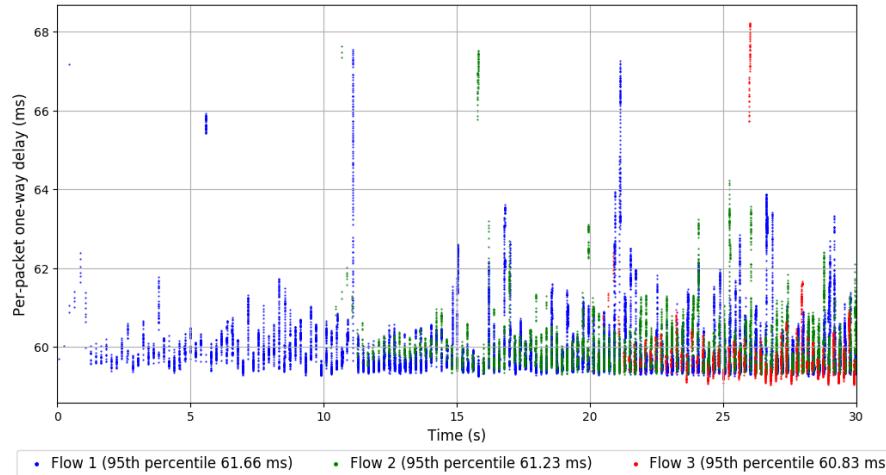
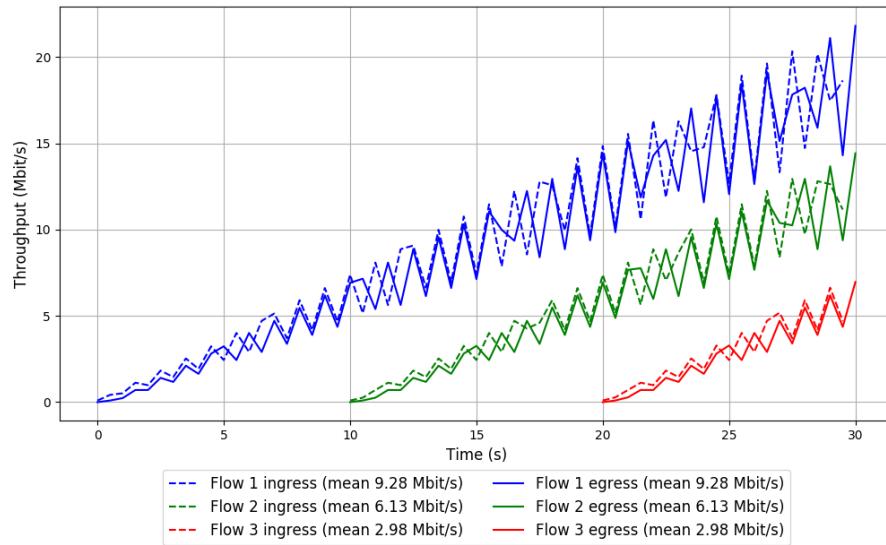


Run 2: Statistics of LEDBAT

```
Start at: 2019-06-27 08:33:50
End at: 2019-06-27 08:34:20
Local clock offset: 0.177 ms
Remote clock offset: -41.452 ms

# Below is generated by plot.py at 2019-06-27 11:03:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.33 Mbit/s
95th percentile per-packet one-way delay: 61.468 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.28 Mbit/s
95th percentile per-packet one-way delay: 61.664 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 61.229 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.98 Mbit/s
95th percentile per-packet one-way delay: 60.828 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

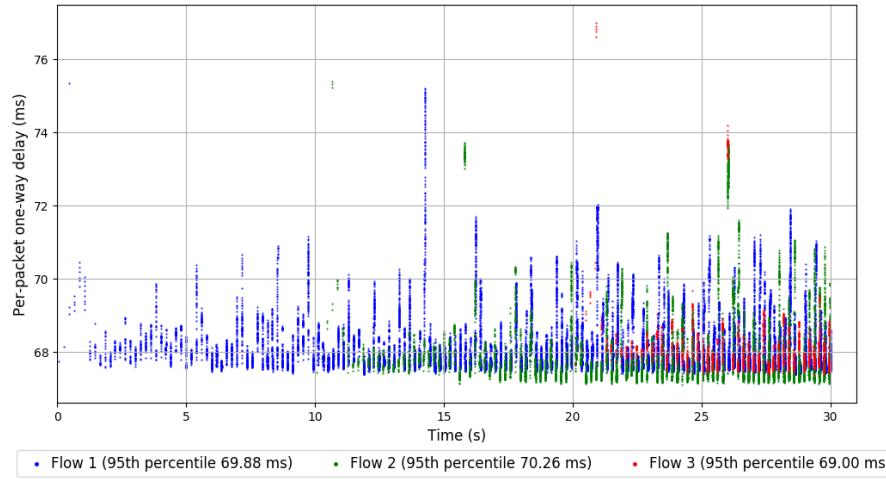
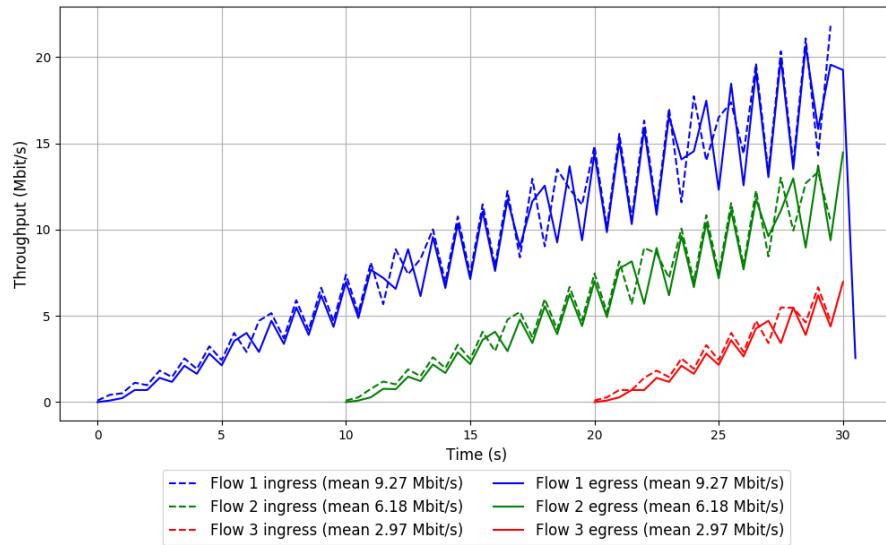


Run 3: Statistics of LEDBAT

```
Start at: 2019-06-27 09:15:07
End at: 2019-06-27 09:15:37
Local clock offset: -1.322 ms
Remote clock offset: -35.352 ms

# Below is generated by plot.py at 2019-06-27 11:03:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.36 Mbit/s
95th percentile per-packet one-way delay: 69.961 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.27 Mbit/s
95th percentile per-packet one-way delay: 69.883 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.18 Mbit/s
95th percentile per-packet one-way delay: 70.261 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 68.995 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

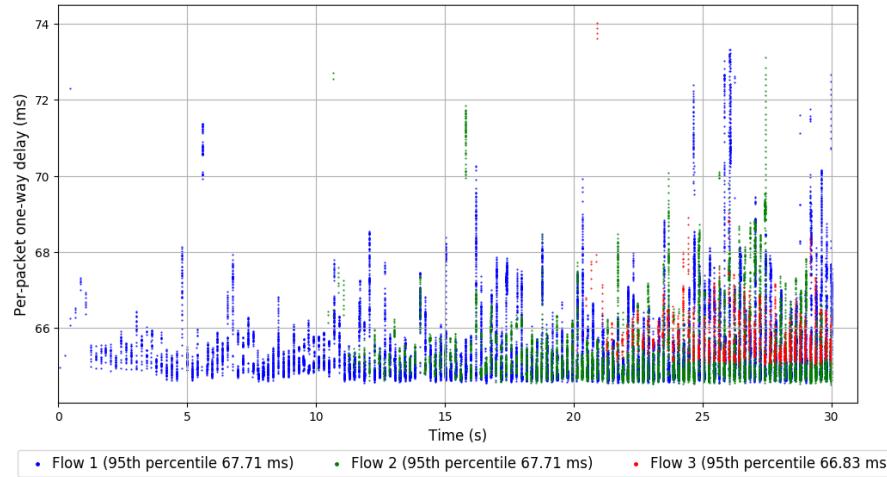
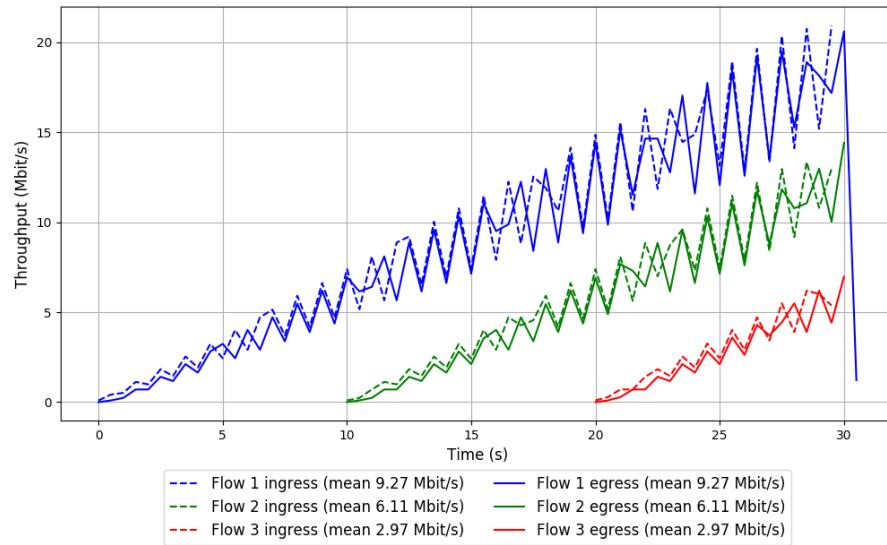


Run 4: Statistics of LEDBAT

```
Start at: 2019-06-27 09:47:08
End at: 2019-06-27 09:47:38
Local clock offset: -0.09 ms
Remote clock offset: -36.151 ms

# Below is generated by plot.py at 2019-06-27 11:03:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.31 Mbit/s
95th percentile per-packet one-way delay: 67.659 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.27 Mbit/s
95th percentile per-packet one-way delay: 67.713 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.11 Mbit/s
95th percentile per-packet one-way delay: 67.710 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 66.832 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

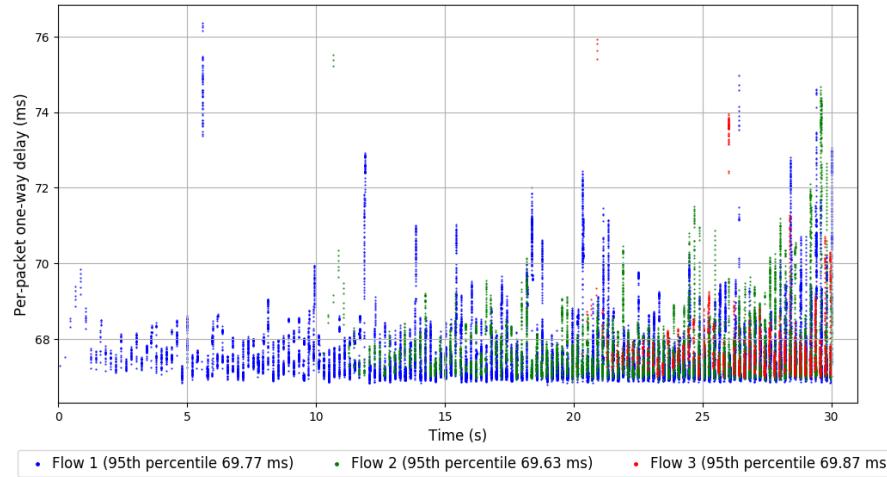
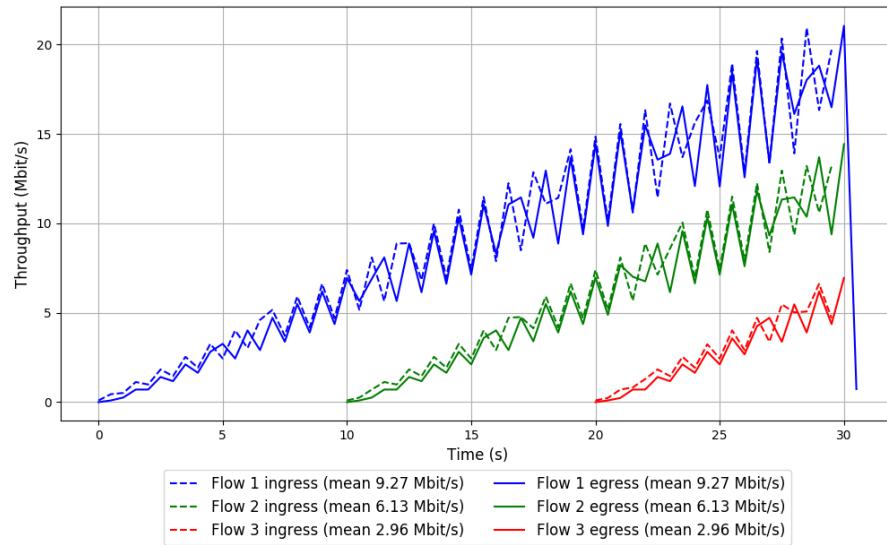


Run 5: Statistics of LEDBAT

```
Start at: 2019-06-27 10:19:02
End at: 2019-06-27 10:19:32
Local clock offset: 0.164 ms
Remote clock offset: -34.193 ms

# Below is generated by plot.py at 2019-06-27 11:03:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 69.731 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.27 Mbit/s
95th percentile per-packet one-way delay: 69.774 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 69.626 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.96 Mbit/s
95th percentile per-packet one-way delay: 69.867 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-06-27 07:43:01

End at: 2019-06-27 07:43:31

Local clock offset: 0.426 ms

Remote clock offset: -42.209 ms

Run 1: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses_DecisionTree

Start at: 2019-06-27 08:14:49
End at: 2019-06-27 08:15:19
Local clock offset: -0.281 ms
Remote clock offset: -40.199 ms

Run 2: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses_DecisionTree

Start at: 2019-06-27 08:56:13

End at: 2019-06-27 08:56:43

Local clock offset: 0.021 ms

Remote clock offset: 10.068 ms

Run 3: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses_DecisionTree

Start at: 2019-06-27 09:28:04

End at: 2019-06-27 09:28:34

Local clock offset: -0.462 ms

Remote clock offset: -29.493 ms

Run 4: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses_DecisionTree

Start at: 2019-06-27 09:59:56
End at: 2019-06-27 10:00:26
Local clock offset: -0.858 ms
Remote clock offset: -29.315 ms

Run 5: Report of Muses_DecisionTree — Data Link

Figure is missing

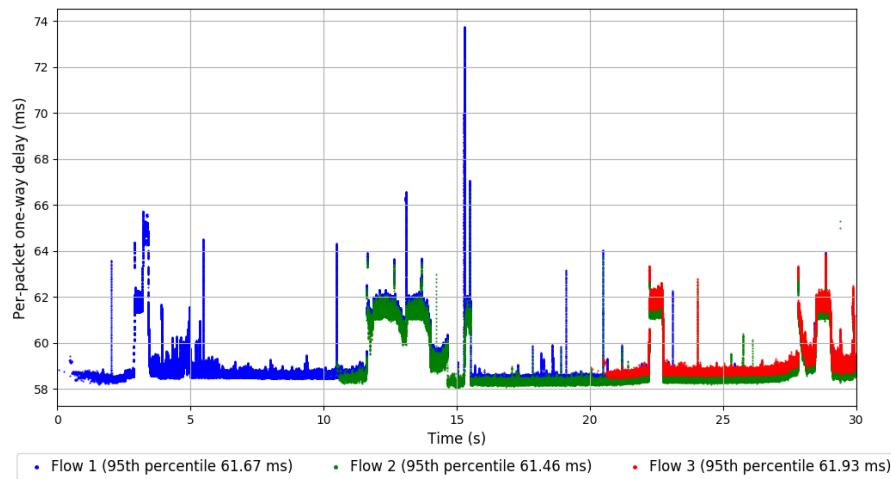
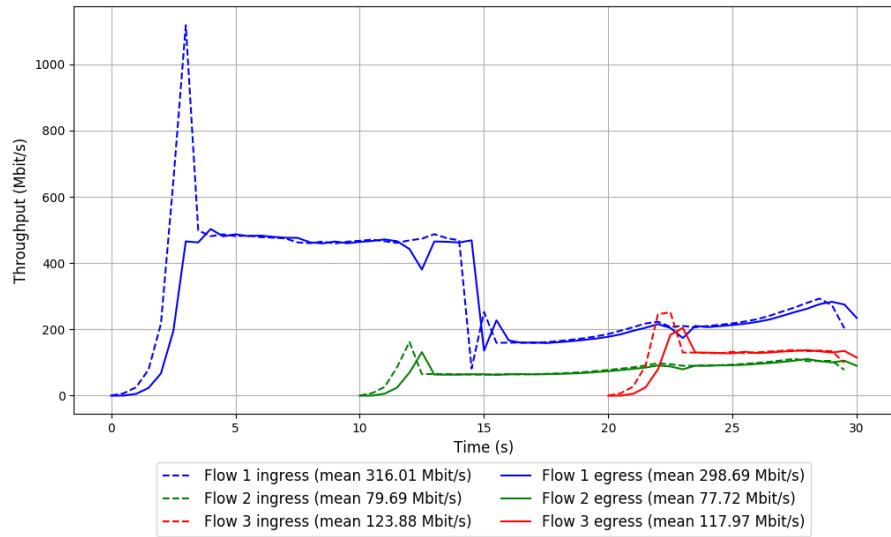
Figure is missing

Run 1: Statistics of PCC-Allegro

```
Start at: 2019-06-27 08:04:47
End at: 2019-06-27 08:05:17
Local clock offset: -1.142 ms
Remote clock offset: -44.095 ms

# Below is generated by plot.py at 2019-06-27 11:05:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 389.26 Mbit/s
95th percentile per-packet one-way delay: 61.685 ms
Loss rate: 5.01%
-- Flow 1:
Average throughput: 298.69 Mbit/s
95th percentile per-packet one-way delay: 61.674 ms
Loss rate: 5.47%
-- Flow 2:
Average throughput: 77.72 Mbit/s
95th percentile per-packet one-way delay: 61.459 ms
Loss rate: 2.46%
-- Flow 3:
Average throughput: 117.97 Mbit/s
95th percentile per-packet one-way delay: 61.926 ms
Loss rate: 4.77%
```

Run 1: Report of PCC-Allegro — Data Link

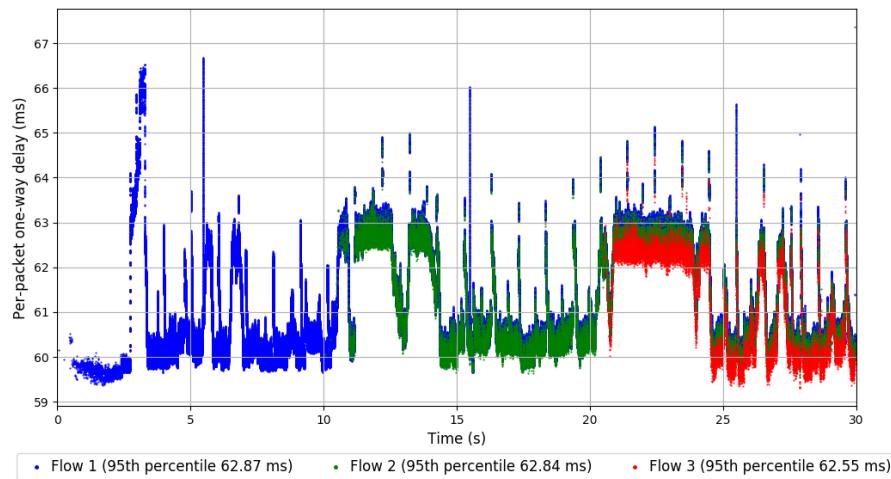
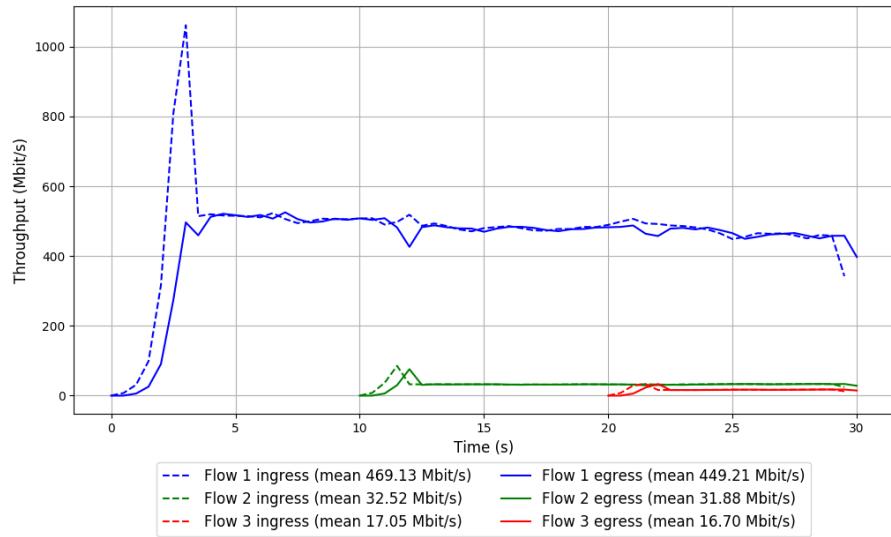


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-06-27 08:36:36
End at: 2019-06-27 08:37:06
Local clock offset: -0.243 ms
Remote clock offset: -41.813 ms

# Below is generated by plot.py at 2019-06-27 11:07:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 475.82 Mbit/s
95th percentile per-packet one-way delay: 62.865 ms
Loss rate: 4.12%
-- Flow 1:
Average throughput: 449.21 Mbit/s
95th percentile per-packet one-way delay: 62.869 ms
Loss rate: 4.24%
-- Flow 2:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 62.843 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 16.70 Mbit/s
95th percentile per-packet one-way delay: 62.554 ms
Loss rate: 2.07%
```

Run 2: Report of PCC-Allegro — Data Link

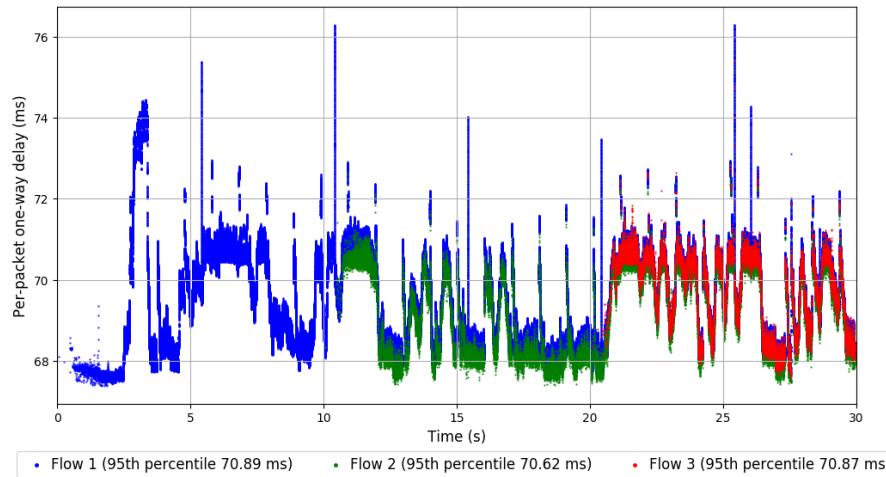
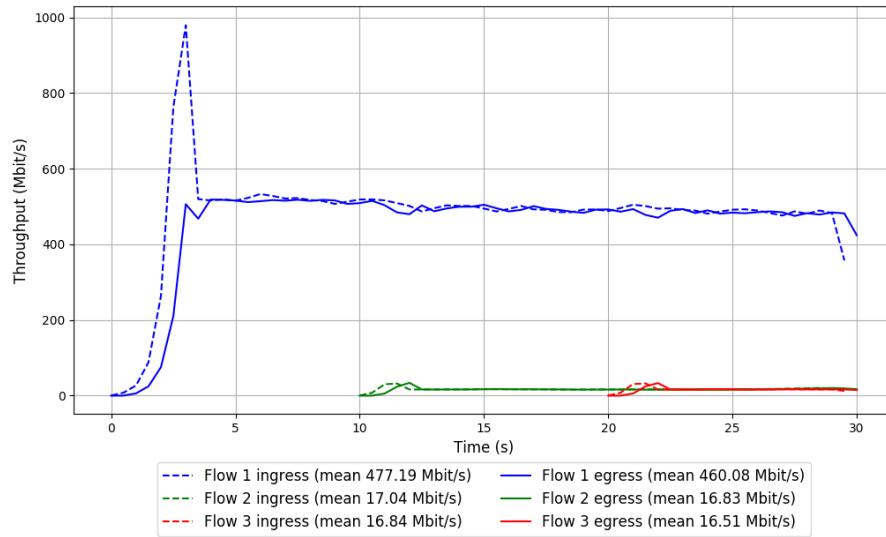


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-06-27 09:17:58
End at: 2019-06-27 09:18:28
Local clock offset: -0.765 ms
Remote clock offset: -34.759 ms

# Below is generated by plot.py at 2019-06-27 11:07:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 476.72 Mbit/s
95th percentile per-packet one-way delay: 70.880 ms
Loss rate: 3.51%
-- Flow 1:
Average throughput: 460.08 Mbit/s
95th percentile per-packet one-way delay: 70.885 ms
Loss rate: 3.59%
-- Flow 2:
Average throughput: 16.83 Mbit/s
95th percentile per-packet one-way delay: 70.623 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 16.51 Mbit/s
95th percentile per-packet one-way delay: 70.870 ms
Loss rate: 1.95%
```

Run 3: Report of PCC-Allegro — Data Link

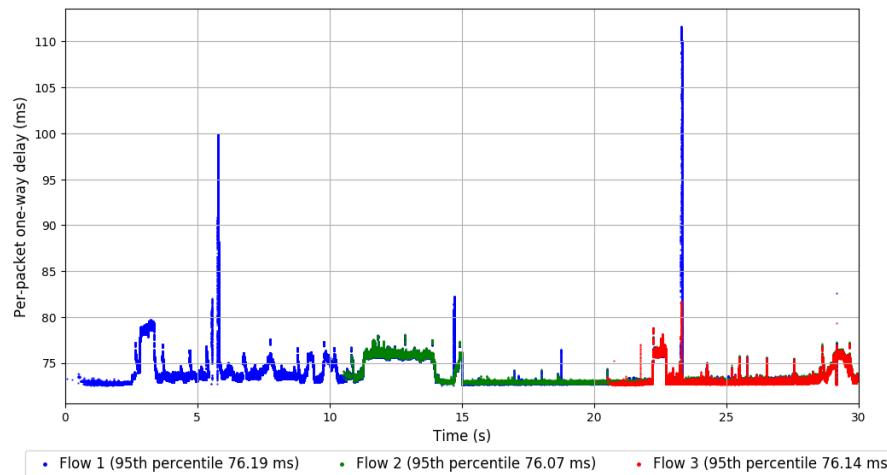
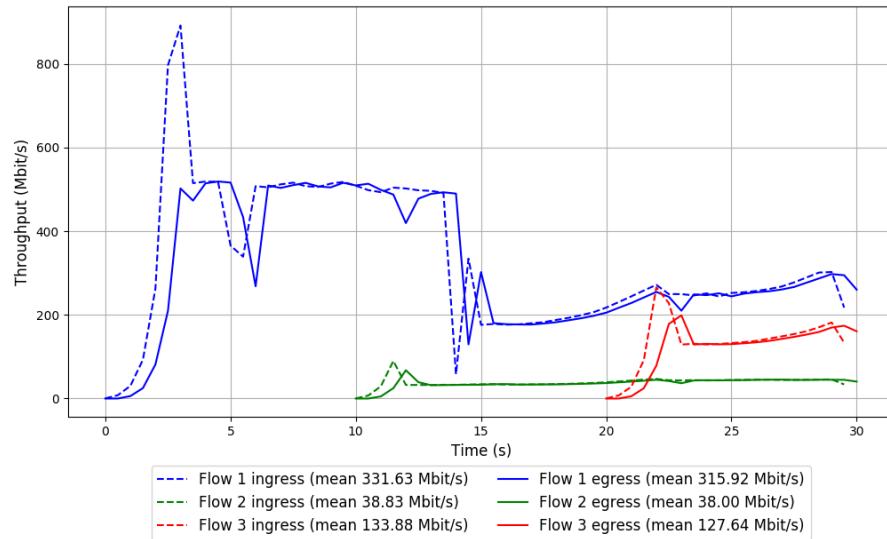


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-06-27 09:49:54
End at: 2019-06-27 09:50:24
Local clock offset: -1.762 ms
Remote clock offset: -29.707 ms

# Below is generated by plot.py at 2019-06-27 11:07:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 383.28 Mbit/s
95th percentile per-packet one-way delay: 76.159 ms
Loss rate: 4.56%
-- Flow 1:
Average throughput: 315.92 Mbit/s
95th percentile per-packet one-way delay: 76.188 ms
Loss rate: 4.74%
-- Flow 2:
Average throughput: 38.00 Mbit/s
95th percentile per-packet one-way delay: 76.074 ms
Loss rate: 2.14%
-- Flow 3:
Average throughput: 127.64 Mbit/s
95th percentile per-packet one-way delay: 76.143 ms
Loss rate: 4.66%
```

Run 4: Report of PCC-Allegro — Data Link

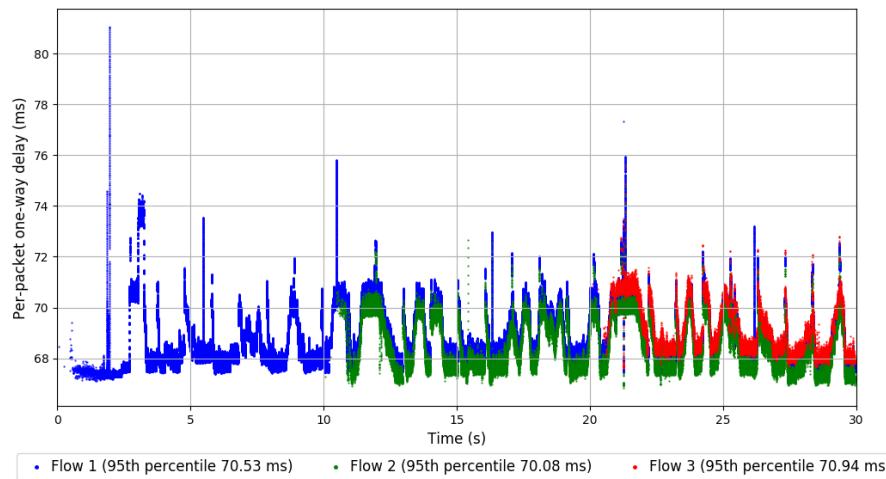
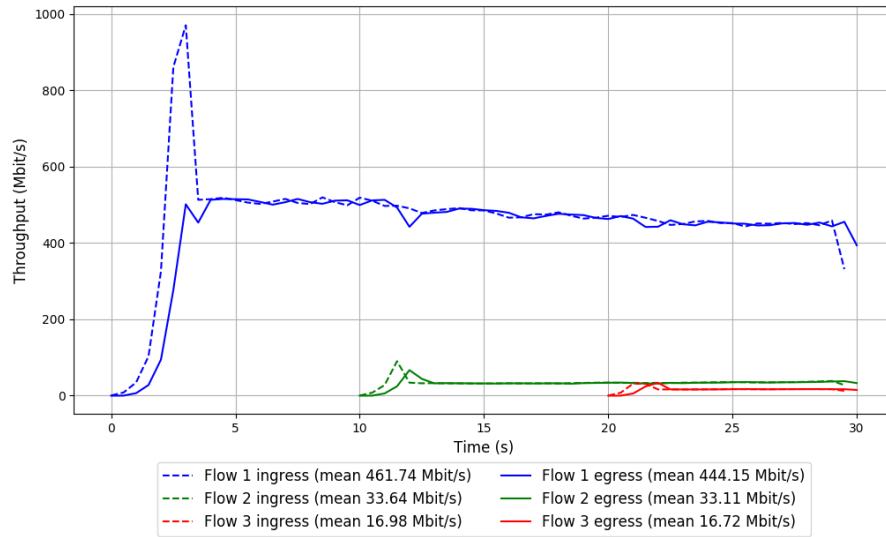


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-06-27 10:21:50
End at: 2019-06-27 10:22:20
Local clock offset: -0.16 ms
Remote clock offset: -34.254 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 471.68 Mbit/s
95th percentile per-packet one-way delay: 70.534 ms
Loss rate: 3.68%
-- Flow 1:
Average throughput: 444.15 Mbit/s
95th percentile per-packet one-way delay: 70.534 ms
Loss rate: 3.81%
-- Flow 2:
Average throughput: 33.11 Mbit/s
95th percentile per-packet one-way delay: 70.085 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 16.72 Mbit/s
95th percentile per-packet one-way delay: 70.939 ms
Loss rate: 1.61%
```

Run 5: Report of PCC-Allegro — Data Link

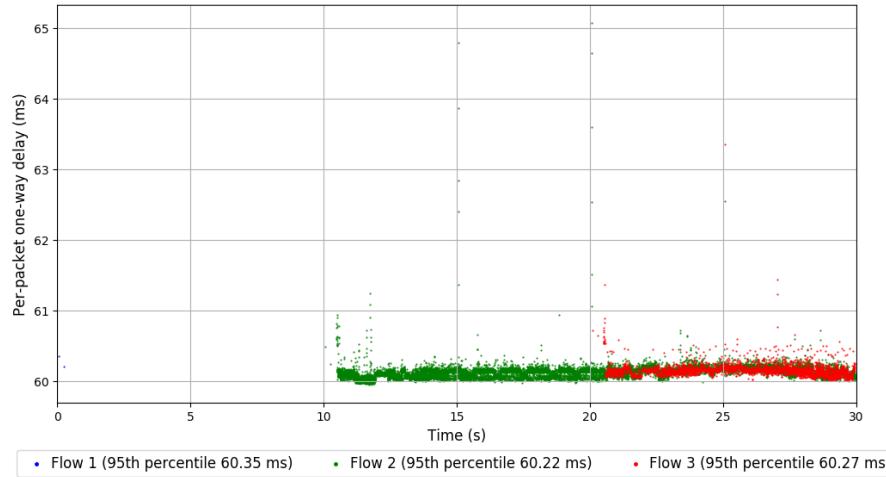
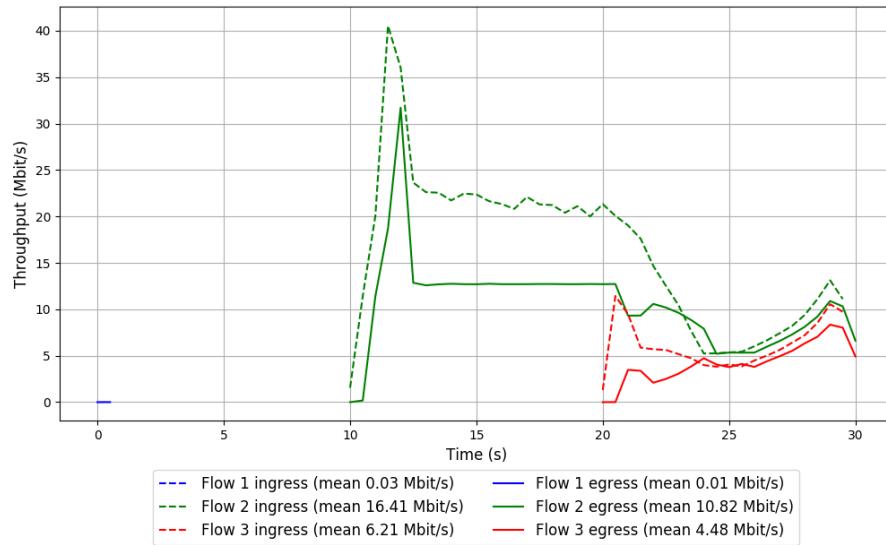


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-06-27 07:37:27
End at: 2019-06-27 07:37:57
Local clock offset: -0.137 ms
Remote clock offset: -41.24 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 60.221 ms
Loss rate: 33.10%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 60.355 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.82 Mbit/s
95th percentile per-packet one-way delay: 60.215 ms
Loss rate: 34.08%
-- Flow 3:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 60.266 ms
Loss rate: 27.91%
```

Run 1: Report of PCC-Expr — Data Link

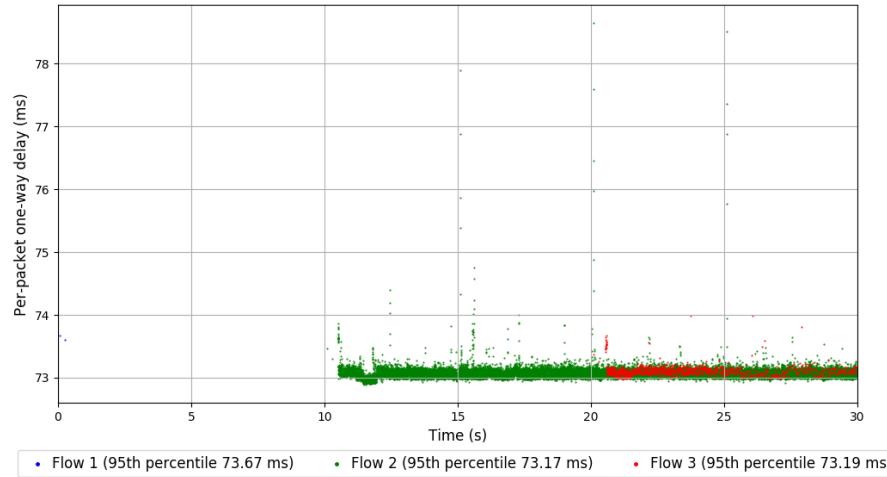
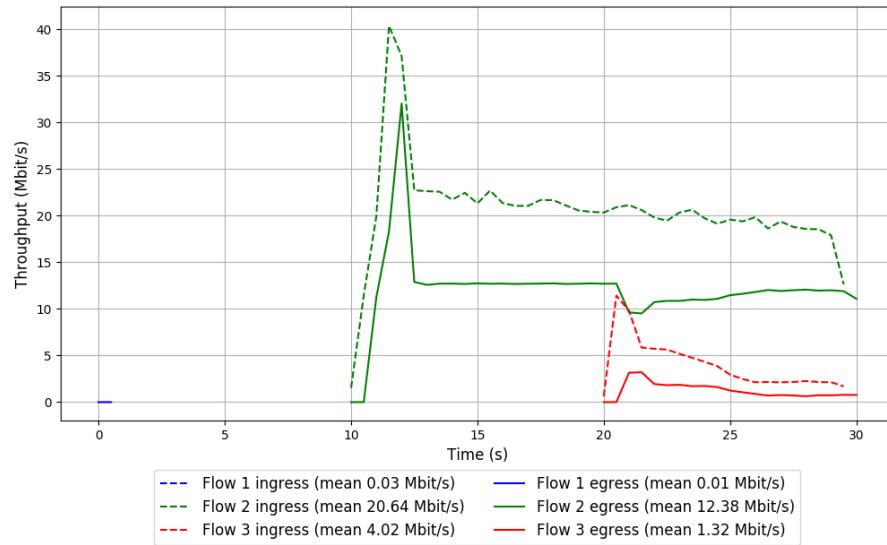


Run 2: Statistics of PCC-Expr

```
Start at: 2019-06-27 08:09:19
End at: 2019-06-27 08:09:49
Local clock offset: -0.469 ms
Remote clock offset: -28.686 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 73.170 ms
Loss rate: 42.42%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 73.668 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 12.38 Mbit/s
95th percentile per-packet one-way delay: 73.169 ms
Loss rate: 40.02%
-- Flow 3:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 73.194 ms
Loss rate: 67.17%
```

Run 2: Report of PCC-Expr — Data Link

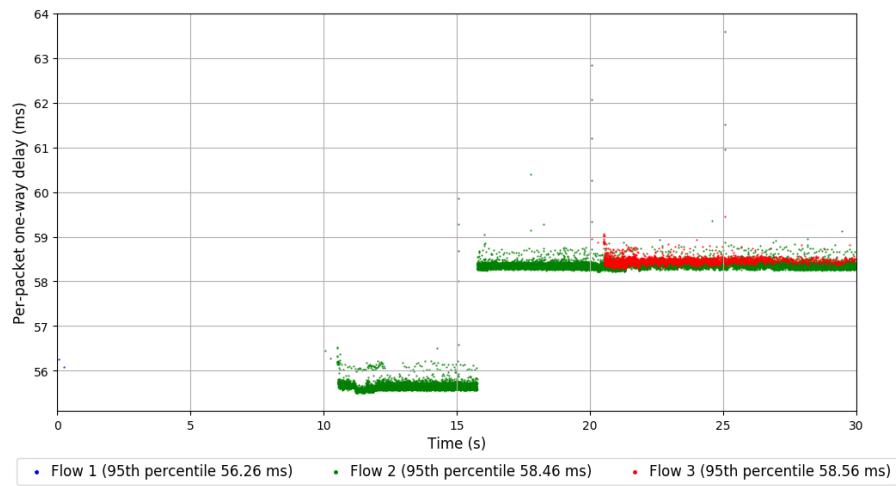
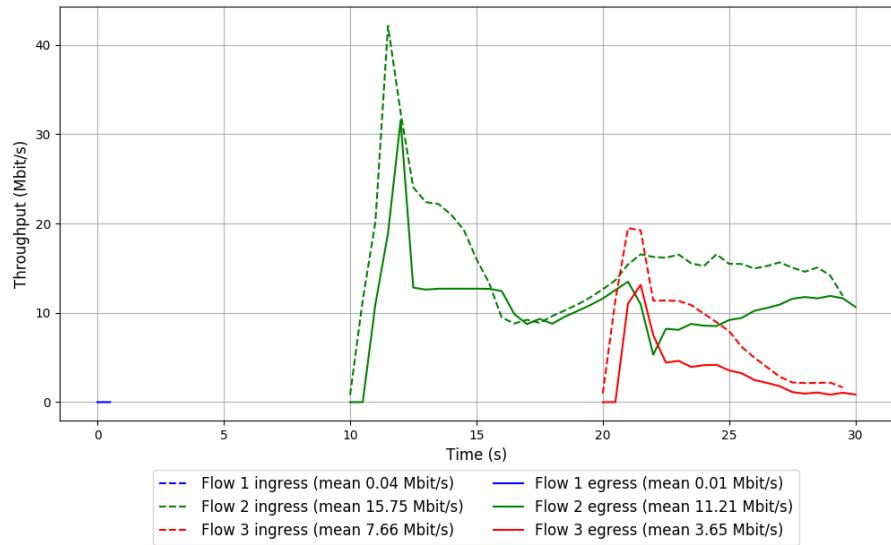


Run 3: Statistics of PCC-Expr

```
Start at: 2019-06-27 08:41:15
End at: 2019-06-27 08:41:45
Local clock offset: -0.204 ms
Remote clock offset: -43.014 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 58.501 ms
Loss rate: 33.41%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 56.256 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 11.21 Mbit/s
95th percentile per-packet one-way delay: 58.456 ms
Loss rate: 28.85%
-- Flow 3:
Average throughput: 3.65 Mbit/s
95th percentile per-packet one-way delay: 58.562 ms
Loss rate: 52.32%
```

Run 3: Report of PCC-Expr — Data Link

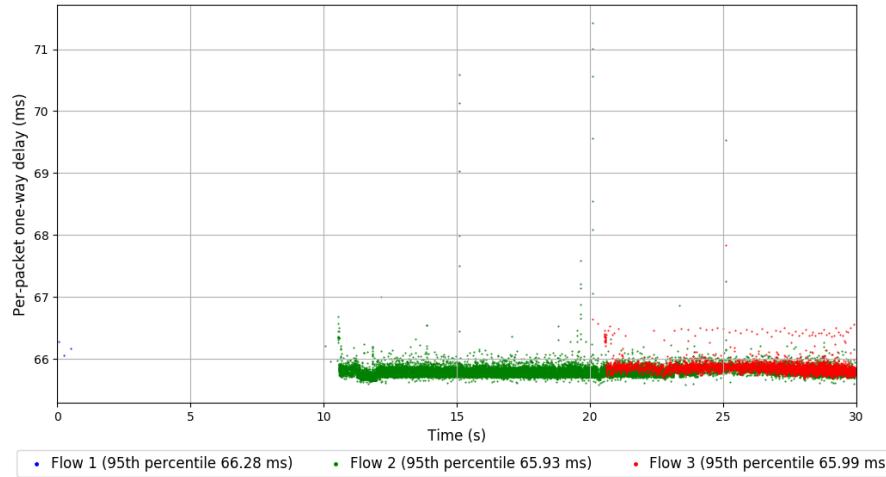
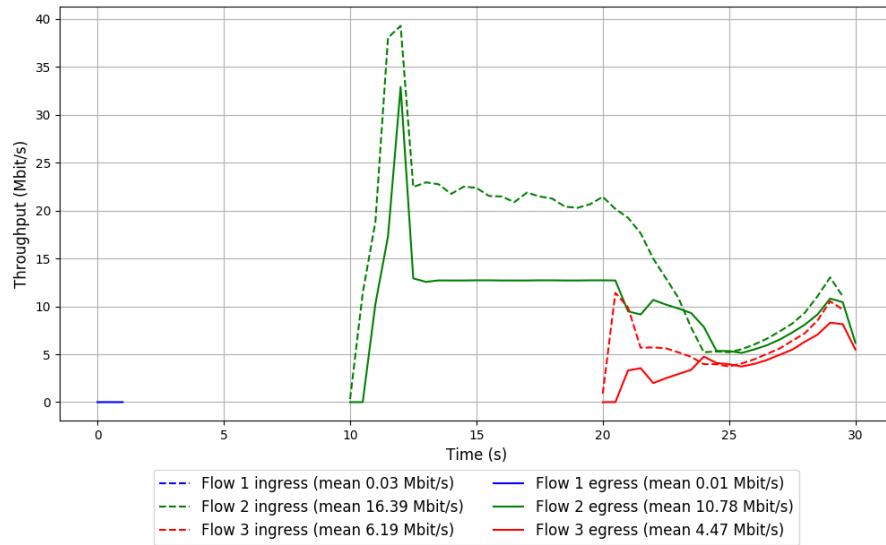


Run 4: Statistics of PCC-Expr

```
Start at: 2019-06-27 09:22:31
End at: 2019-06-27 09:23:01
Local clock offset: -1.023 ms
Remote clock offset: -36.365 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.65 Mbit/s
95th percentile per-packet one-way delay: 65.941 ms
Loss rate: 33.18%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 66.277 ms
Loss rate: 80.00%
-- Flow 2:
Average throughput: 10.78 Mbit/s
95th percentile per-packet one-way delay: 65.926 ms
Loss rate: 34.19%
-- Flow 3:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 65.988 ms
Loss rate: 27.80%
```

Run 4: Report of PCC-Expr — Data Link

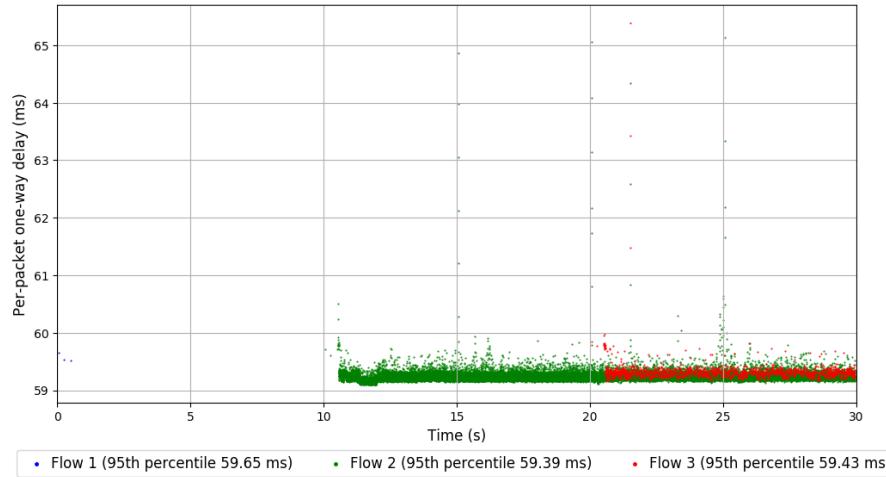
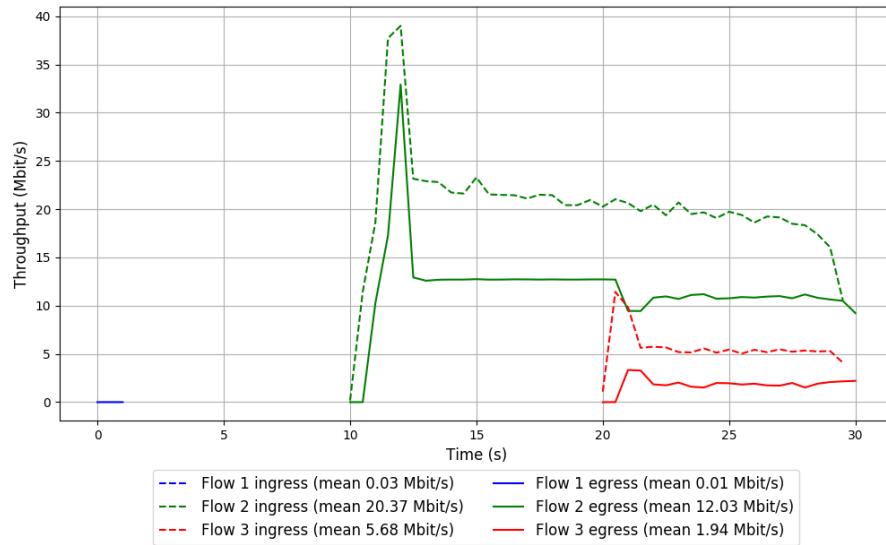


Run 5: Statistics of PCC-Expr

```
Start at: 2019-06-27 09:54:23
End at: 2019-06-27 09:54:53
Local clock offset: -0.132 ms
Remote clock offset: -41.865 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.65 Mbit/s
95th percentile per-packet one-way delay: 59.392 ms
Loss rate: 43.96%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 59.647 ms
Loss rate: 80.00%
-- Flow 2:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 59.387 ms
Loss rate: 40.93%
-- Flow 3:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 59.426 ms
Loss rate: 65.85%
```

Run 5: Report of PCC-Expr — Data Link

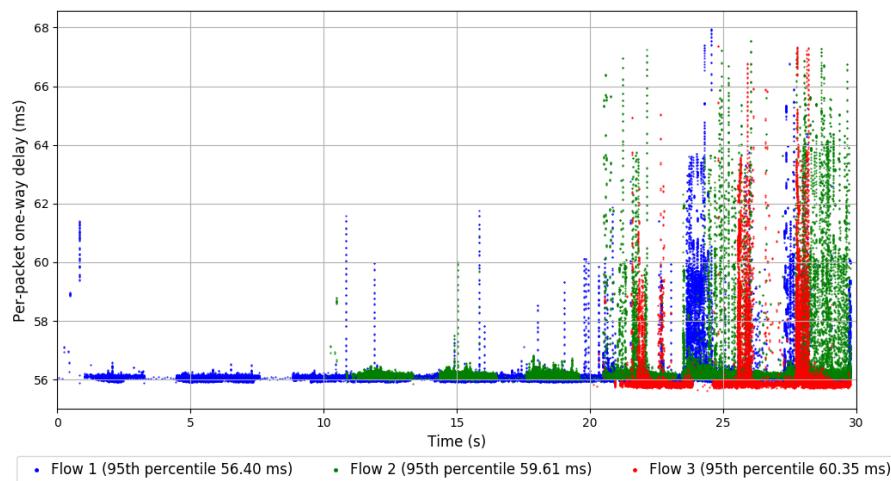
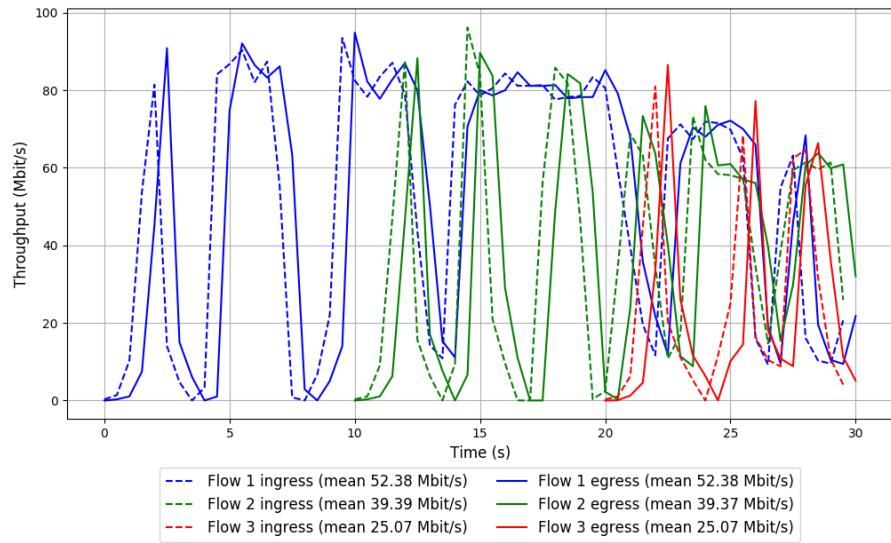


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-06-27 07:36:04
End at: 2019-06-27 07:36:34
Local clock offset: -0.165 ms
Remote clock offset: -45.438 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.64 Mbit/s
95th percentile per-packet one-way delay: 58.170 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 52.38 Mbit/s
95th percentile per-packet one-way delay: 56.403 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.37 Mbit/s
95th percentile per-packet one-way delay: 59.613 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 25.07 Mbit/s
95th percentile per-packet one-way delay: 60.352 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link

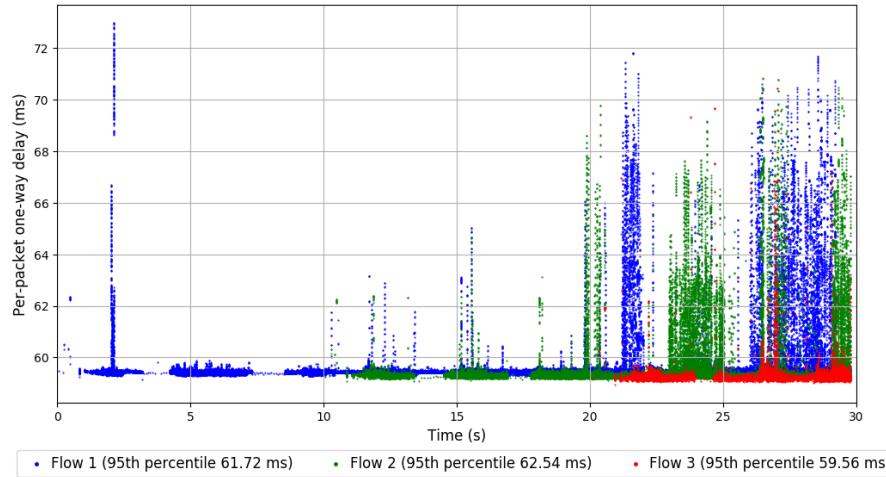
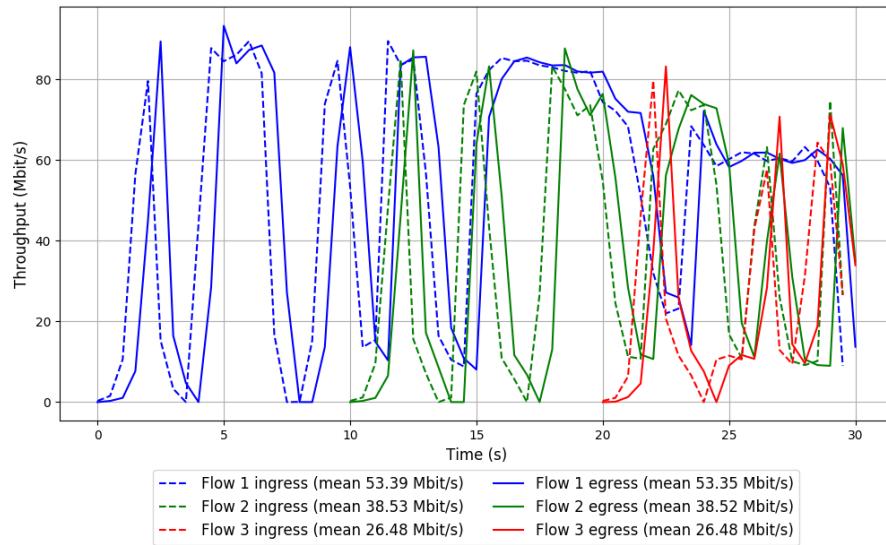


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-06-27 08:07:55
End at: 2019-06-27 08:08:25
Local clock offset: -0.2 ms
Remote clock offset: -42.114 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.47 Mbit/s
95th percentile per-packet one-way delay: 61.912 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 53.35 Mbit/s
95th percentile per-packet one-way delay: 61.716 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 38.52 Mbit/s
95th percentile per-packet one-way delay: 62.537 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 26.48 Mbit/s
95th percentile per-packet one-way delay: 59.563 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

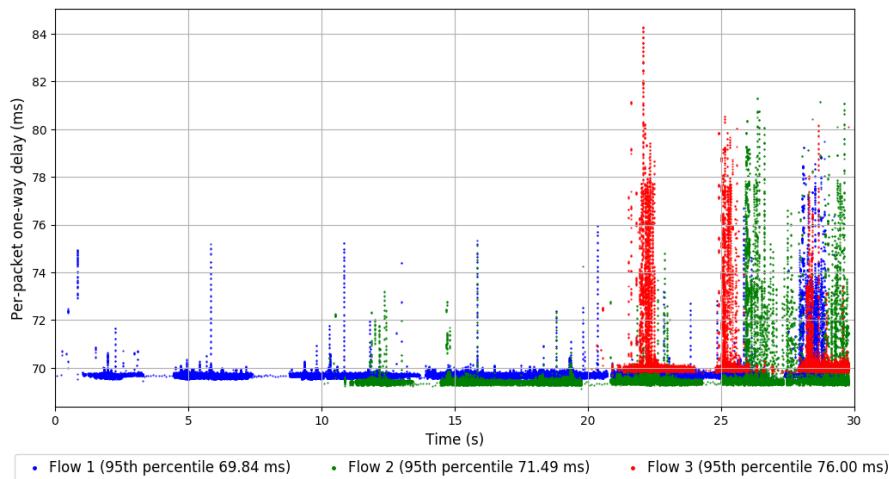
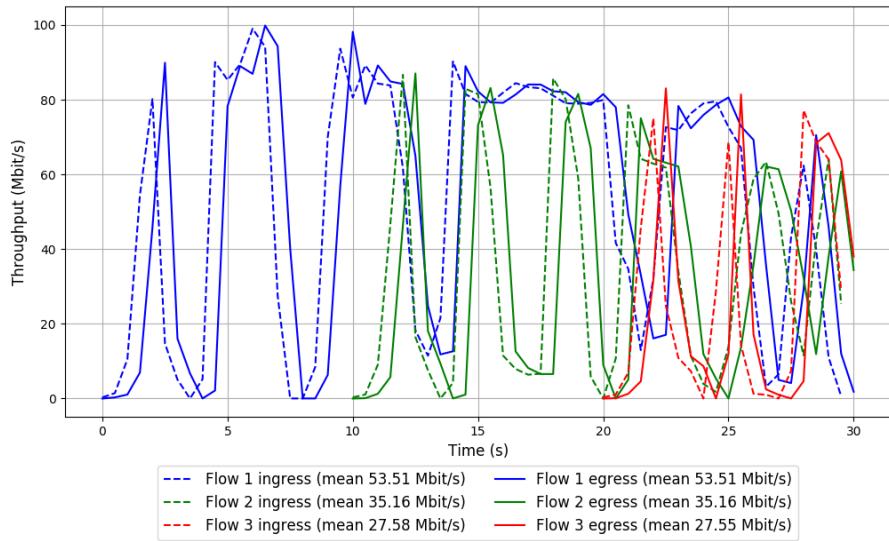


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-06-27 08:39:47
End at: 2019-06-27 08:40:17
Local clock offset: 0.178 ms
Remote clock offset: -31.45 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.71 Mbit/s
95th percentile per-packet one-way delay: 70.608 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.51 Mbit/s
95th percentile per-packet one-way delay: 69.836 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.16 Mbit/s
95th percentile per-packet one-way delay: 71.486 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.55 Mbit/s
95th percentile per-packet one-way delay: 76.002 ms
Loss rate: 0.02%
```

Run 3: Report of QUIC Cubic — Data Link

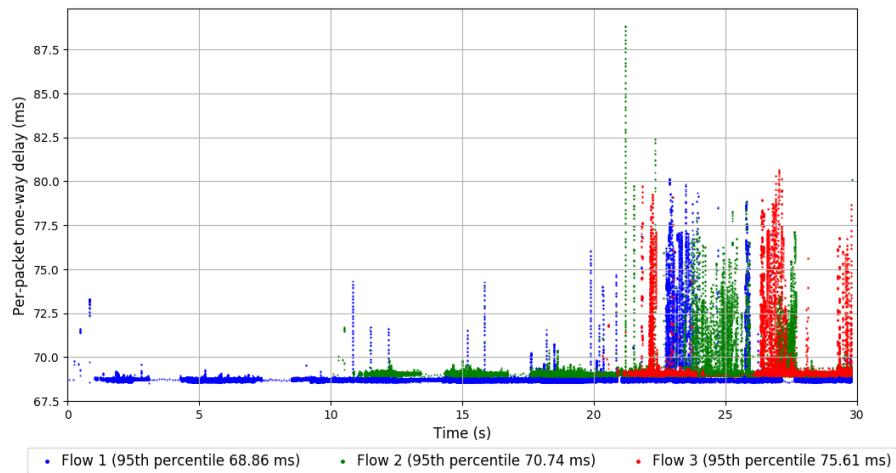
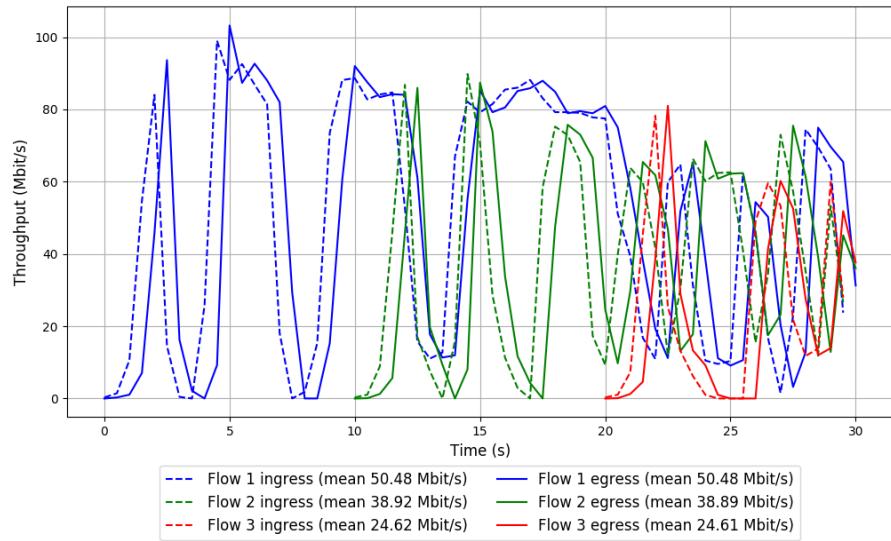


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-06-27 09:21:08
End at: 2019-06-27 09:21:38
Local clock offset: -1.295 ms
Remote clock offset: -33.591 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.24 Mbit/s
95th percentile per-packet one-way delay: 70.469 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.48 Mbit/s
95th percentile per-packet one-way delay: 68.859 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.89 Mbit/s
95th percentile per-packet one-way delay: 70.744 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 75.614 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

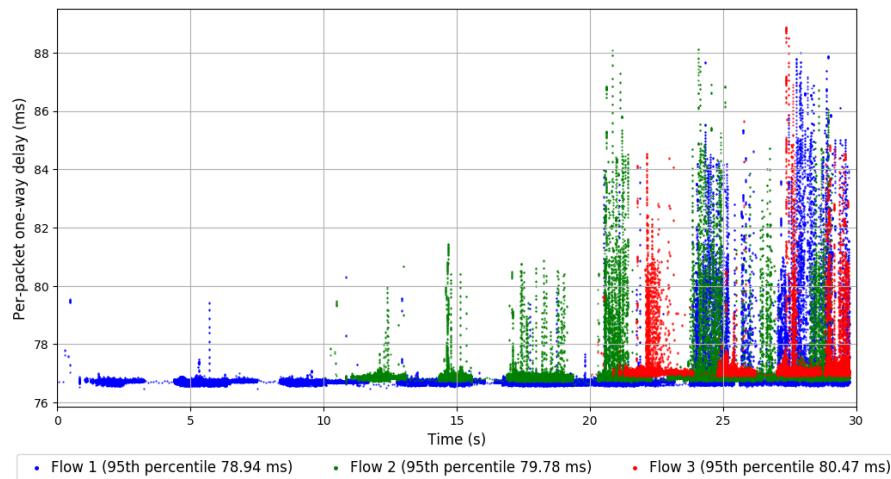
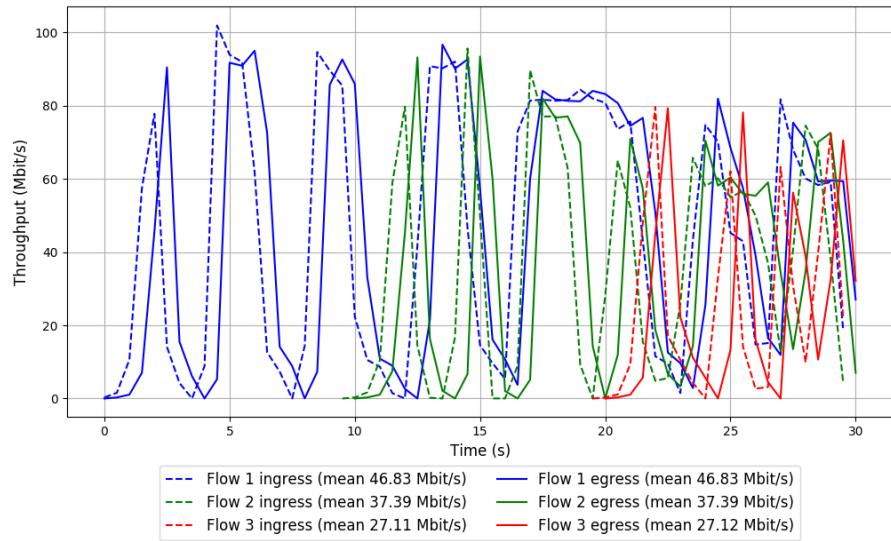


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-06-27 09:53:00
End at: 2019-06-27 09:53:30
Local clock offset: -8.833 ms
Remote clock offset: -33.01 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.48 Mbit/s
95th percentile per-packet one-way delay: 79.521 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.83 Mbit/s
95th percentile per-packet one-way delay: 78.940 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.39 Mbit/s
95th percentile per-packet one-way delay: 79.780 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.12 Mbit/s
95th percentile per-packet one-way delay: 80.471 ms
Loss rate: 0.01%
```

Run 5: Report of QUIC Cubic — Data Link

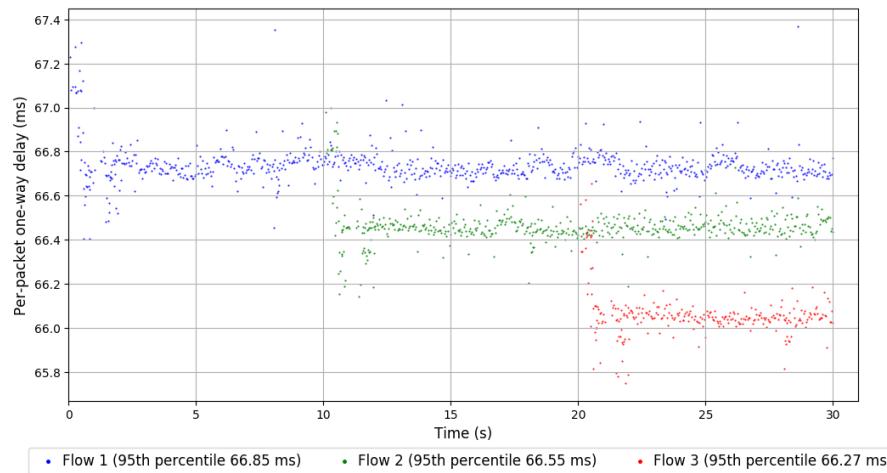
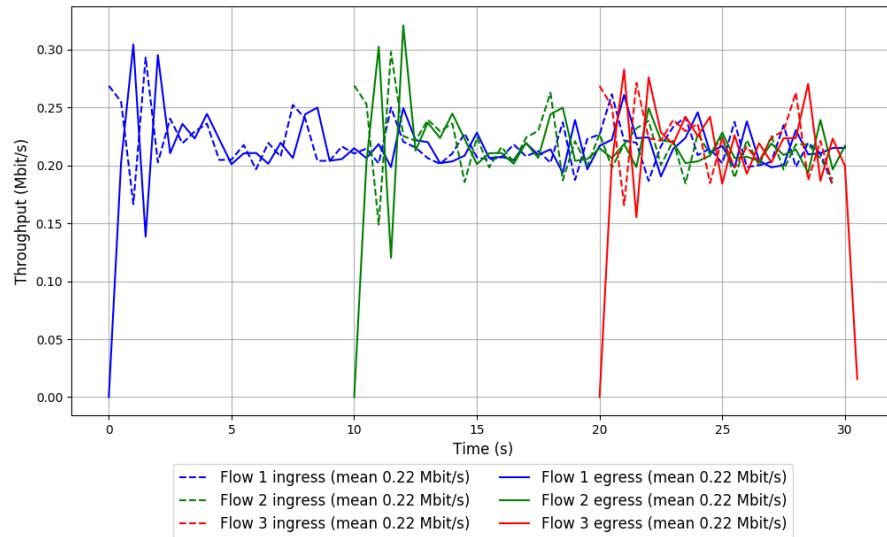


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-06-27 07:53:18
End at: 2019-06-27 07:53:48
Local clock offset: -0.839 ms
Remote clock offset: -35.792 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.805 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.851 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.551 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.270 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

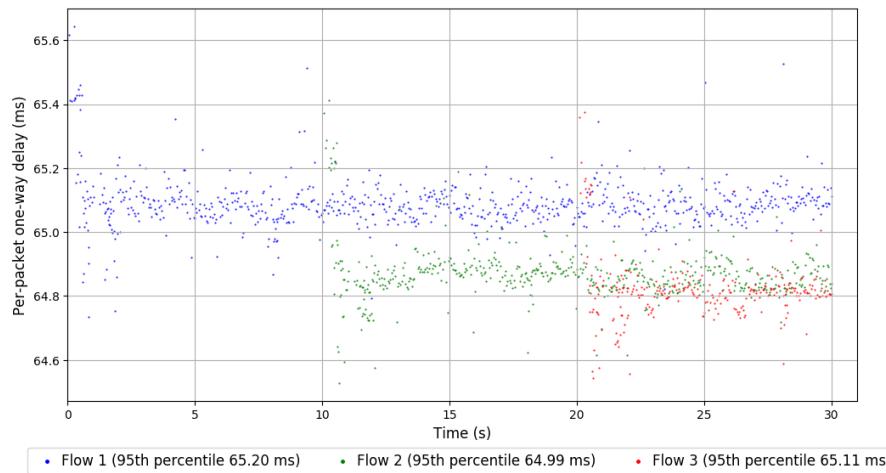
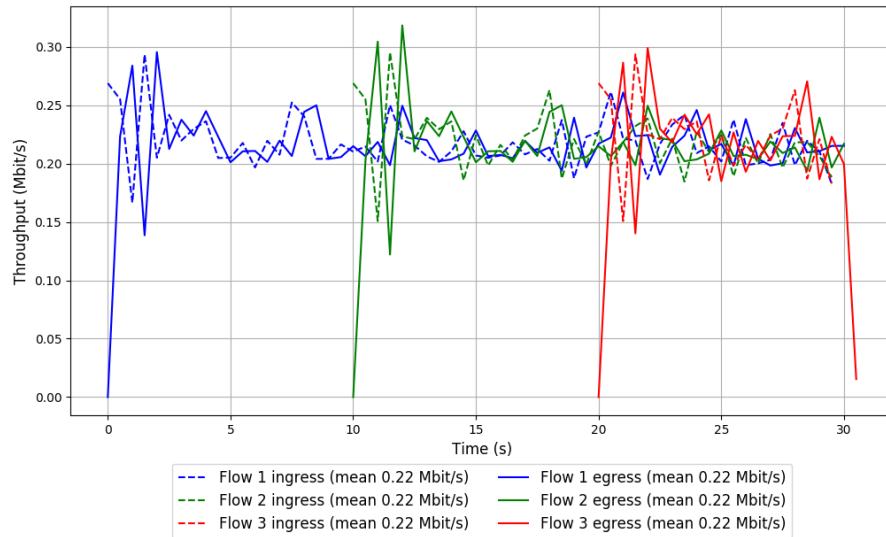


Run 2: Statistics of SCReAM

```
Start at: 2019-06-27 08:25:07
End at: 2019-06-27 08:25:37
Local clock offset: -0.24 ms
Remote clock offset: -36.624 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 65.168 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.199 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.989 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.109 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

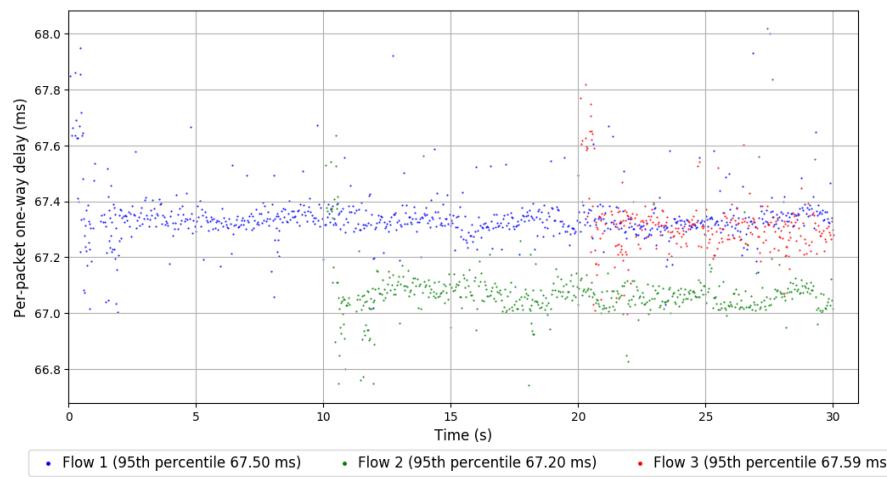
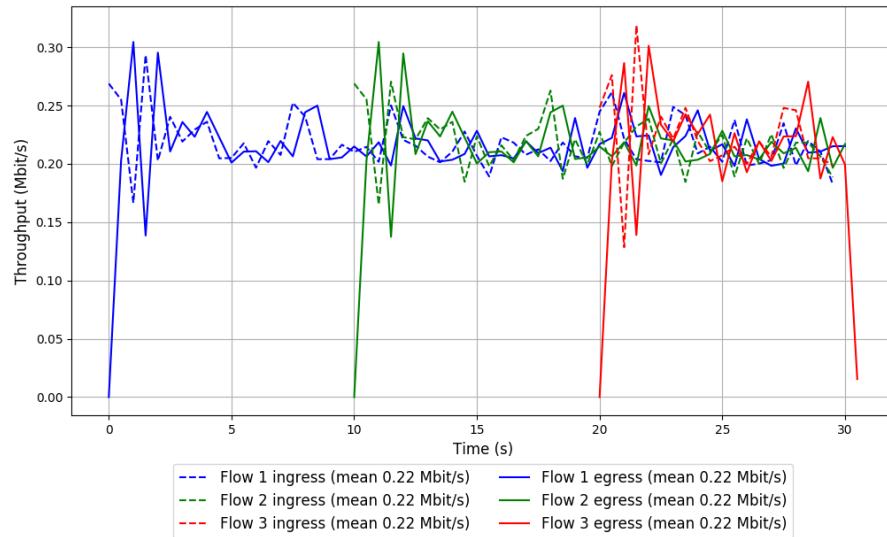


Run 3: Statistics of SCReAM

```
Start at: 2019-06-27 09:06:23
End at: 2019-06-27 09:06:53
Local clock offset: -1.024 ms
Remote clock offset: -35.435 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 67.452 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.501 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.196 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.589 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

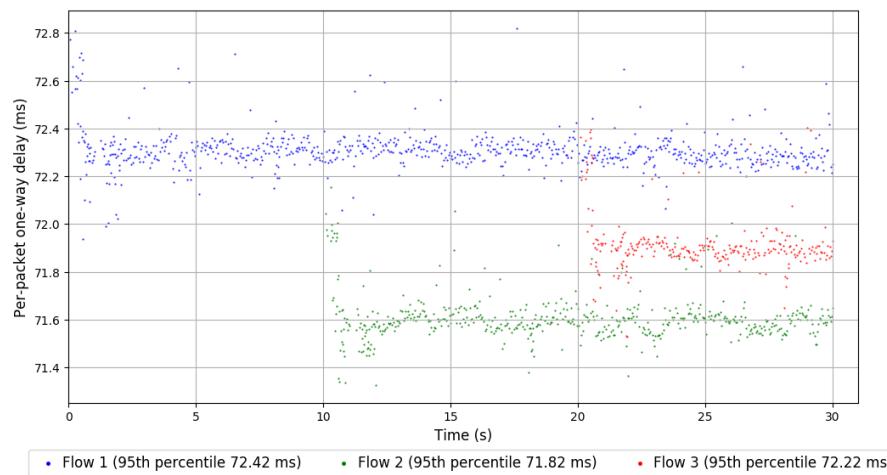
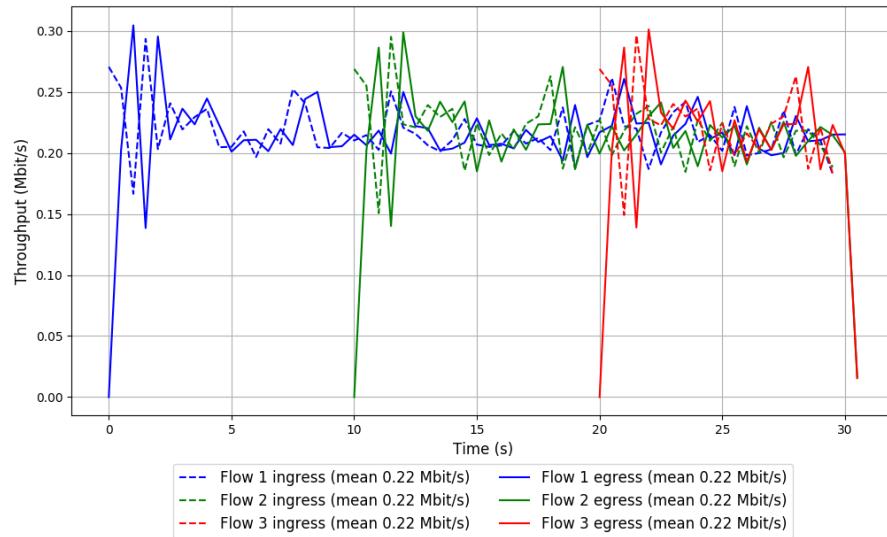


Run 4: Statistics of SCReAM

```
Start at: 2019-06-27 09:38:22
End at: 2019-06-27 09:38:52
Local clock offset: -0.299 ms
Remote clock offset: -29.57 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 72.364 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 72.416 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 71.818 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 72.220 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

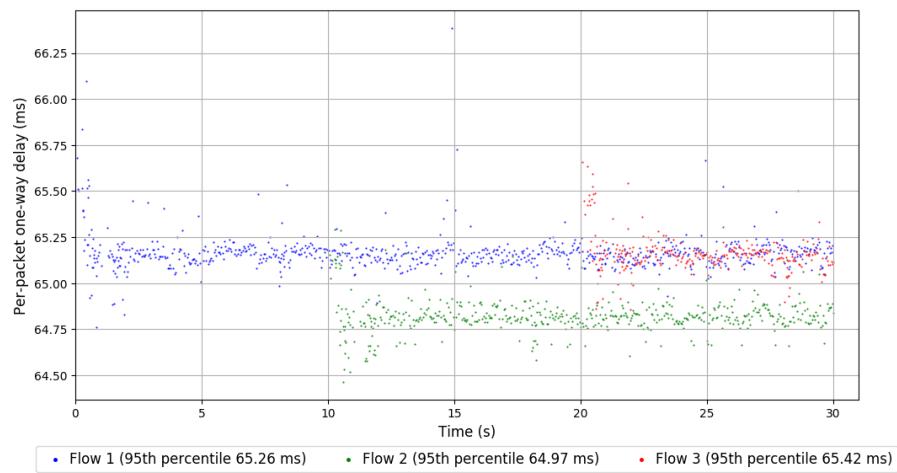
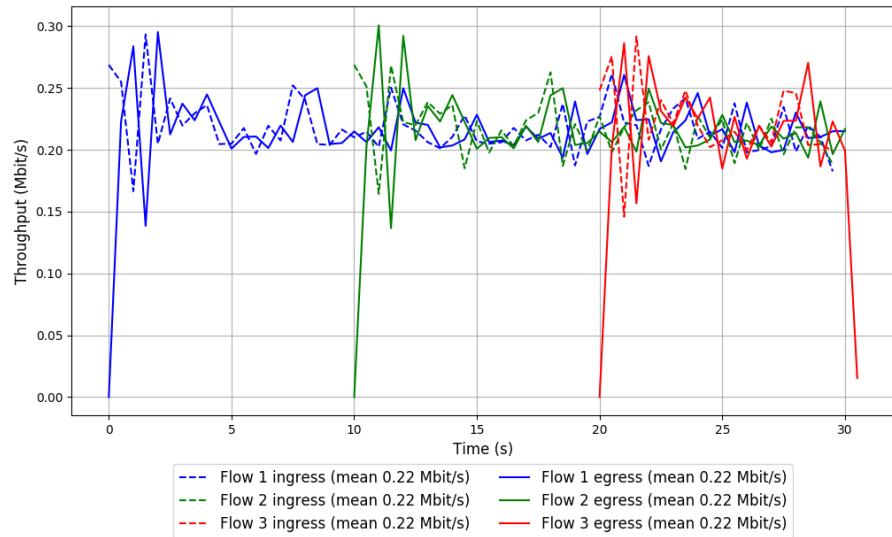


Run 5: Statistics of SCReAM

```
Start at: 2019-06-27 10:10:15
End at: 2019-06-27 10:10:45
Local clock offset: -0.057 ms
Remote clock offset: -36.472 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 65.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.261 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.968 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.424 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

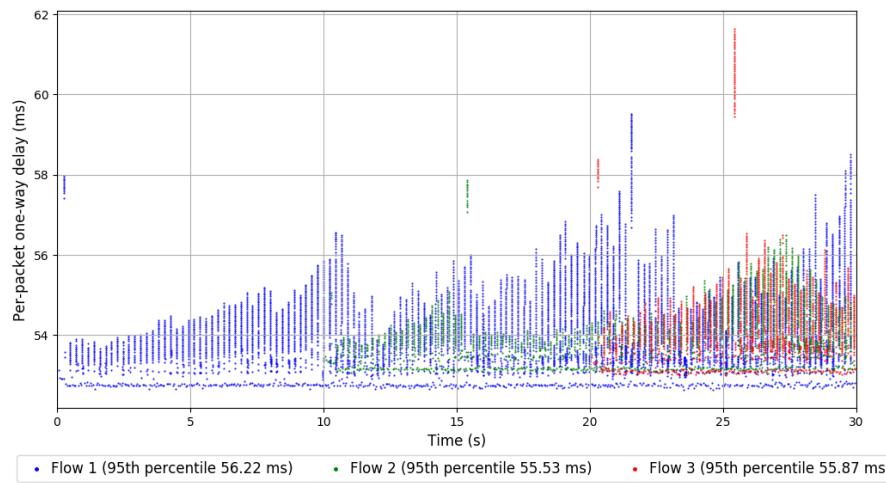
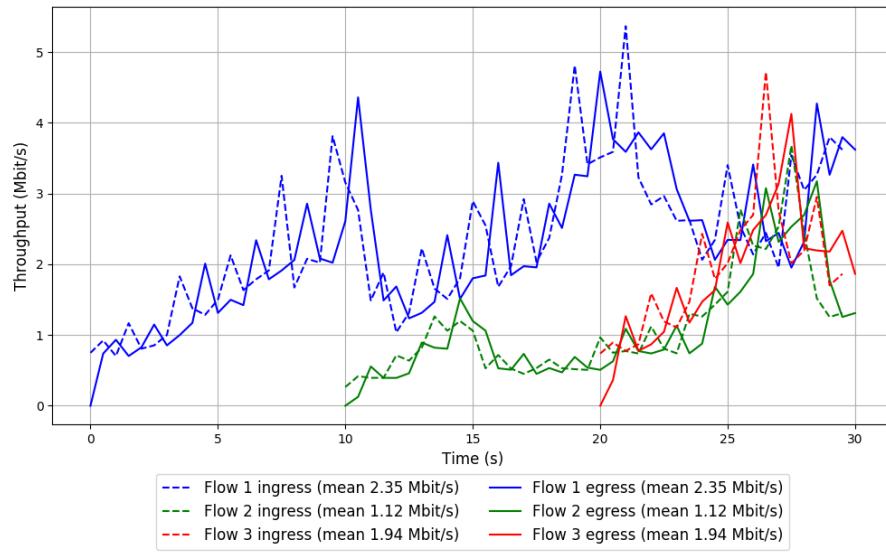


Run 1: Statistics of Sprout

```
Start at: 2019-06-27 07:38:45
End at: 2019-06-27 07:39:15
Local clock offset: -1.239 ms
Remote clock offset: -49.451 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 56.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 56.224 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 55.530 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 55.870 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

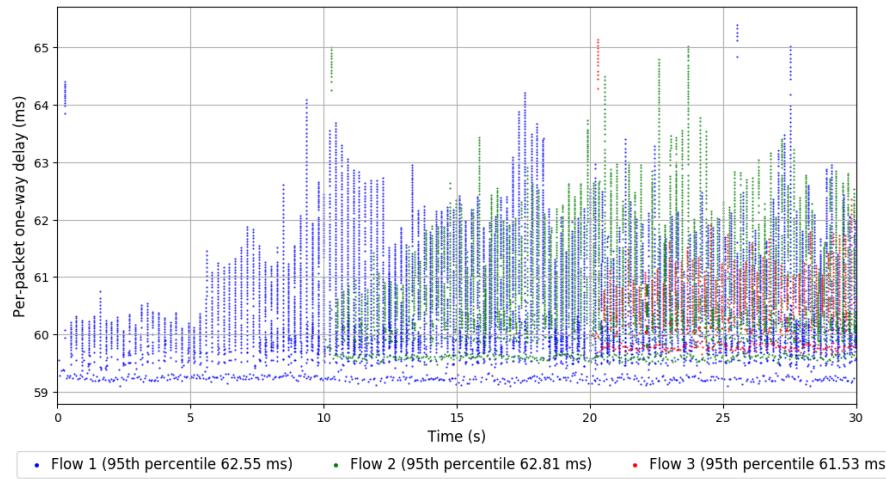
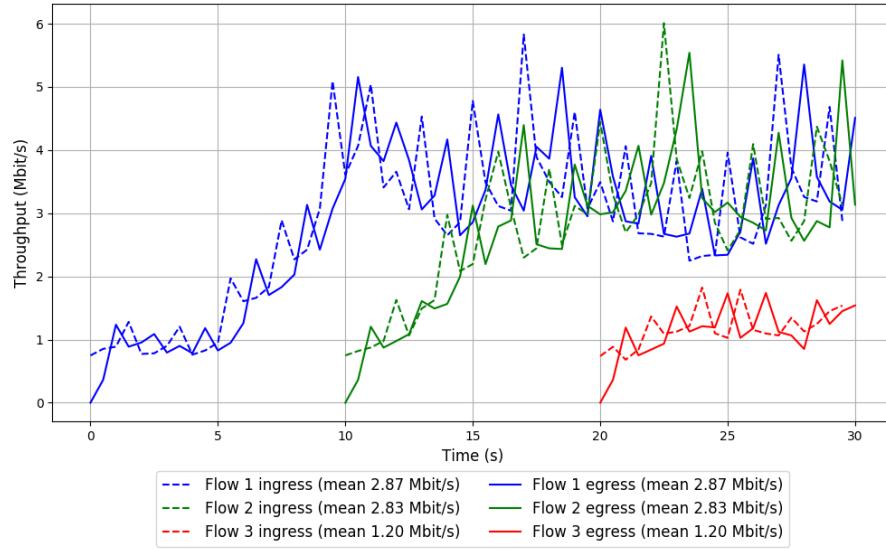


Run 2: Statistics of Sprout

```
Start at: 2019-06-27 08:10:37
End at: 2019-06-27 08:11:07
Local clock offset: -0.149 ms
Remote clock offset: -41.827 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.15 Mbit/s
95th percentile per-packet one-way delay: 62.637 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 62.554 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 62.807 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 61.531 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

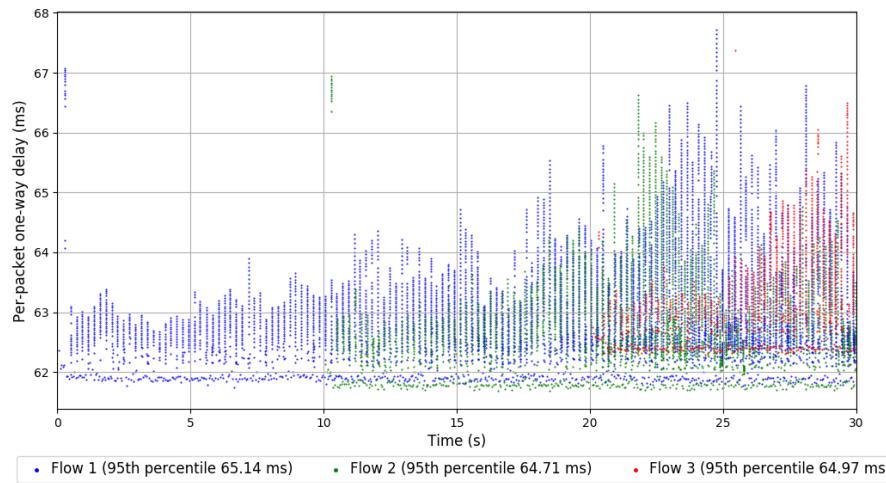
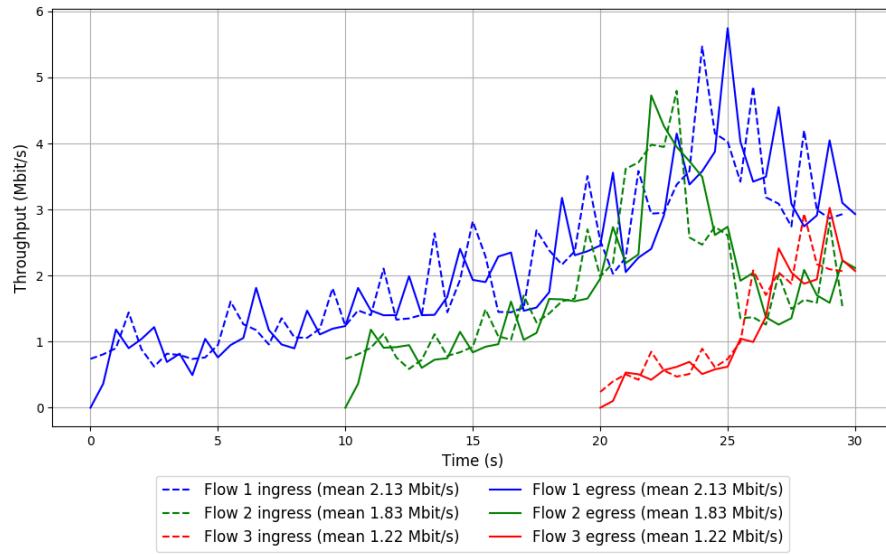


Run 3: Statistics of Sprout

```
Start at: 2019-06-27 08:42:34
End at: 2019-06-27 08:43:04
Local clock offset: -0.166 ms
Remote clock offset: -39.501 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 65.011 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 65.143 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 64.710 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 64.965 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

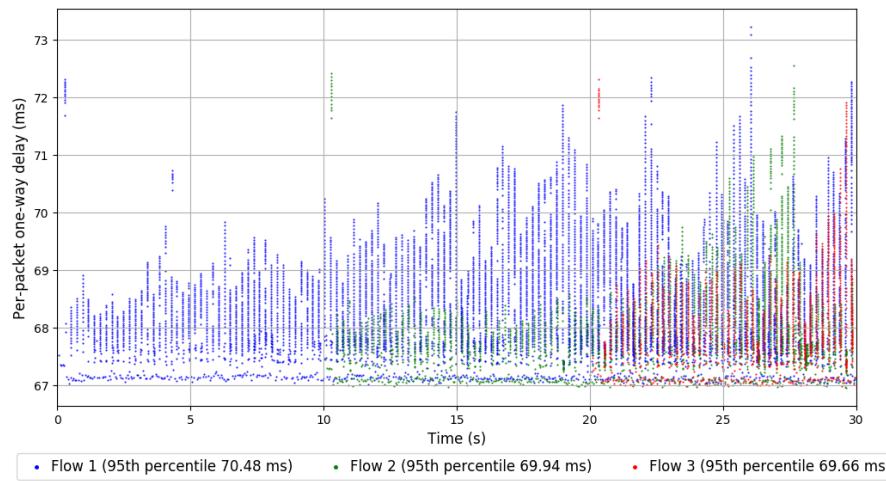
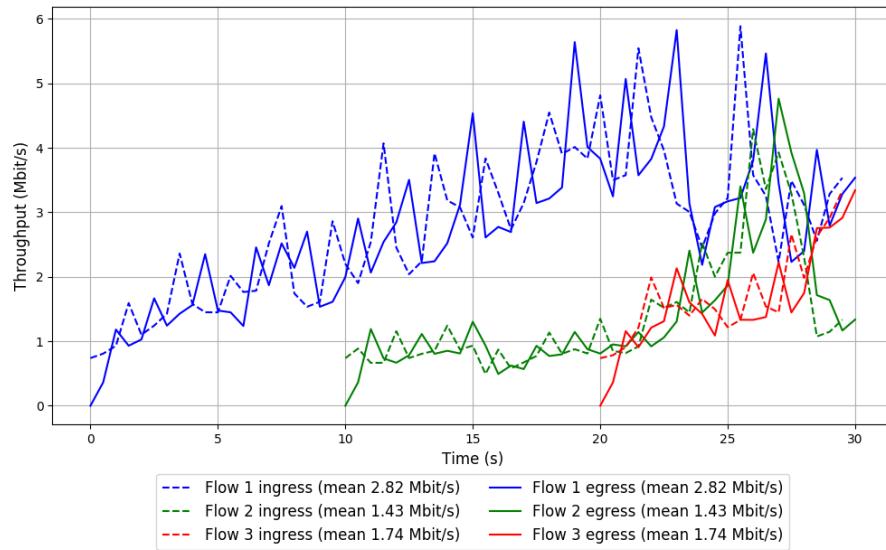


Run 4: Statistics of Sprout

```
Start at: 2019-06-27 09:23:50
End at: 2019-06-27 09:24:20
Local clock offset: -0.481 ms
Remote clock offset: -34.381 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 70.337 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.82 Mbit/s
95th percentile per-packet one-way delay: 70.480 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 69.938 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 69.656 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

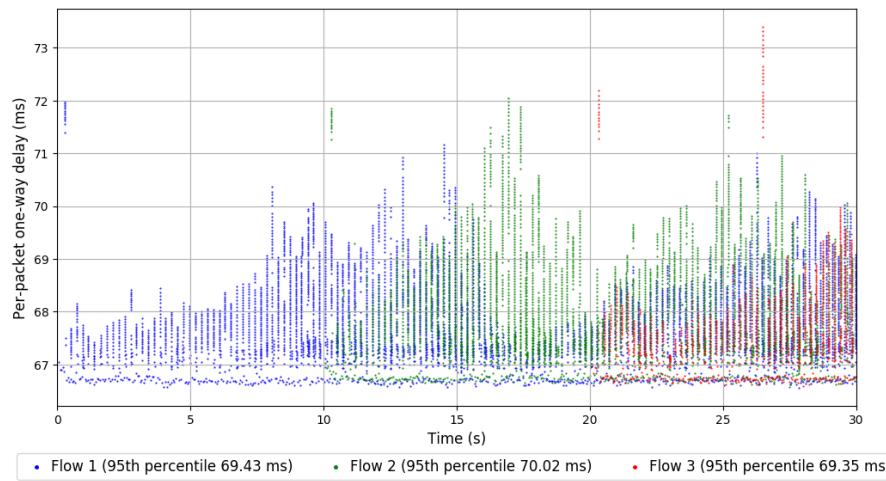
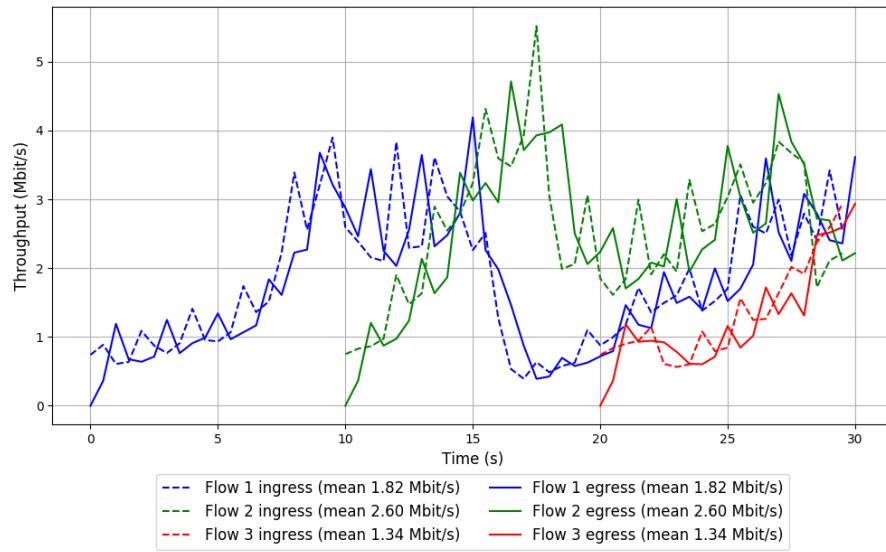


Run 5: Statistics of Sprout

```
Start at: 2019-06-27 09:55:42
End at: 2019-06-27 09:56:12
Local clock offset: -0.116 ms
Remote clock offset: -34.51 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 69.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 69.433 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 70.024 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 69.351 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

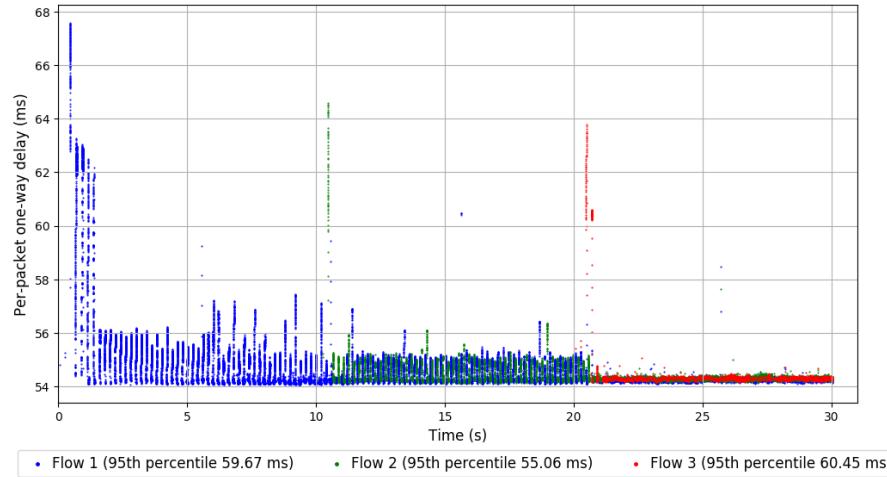
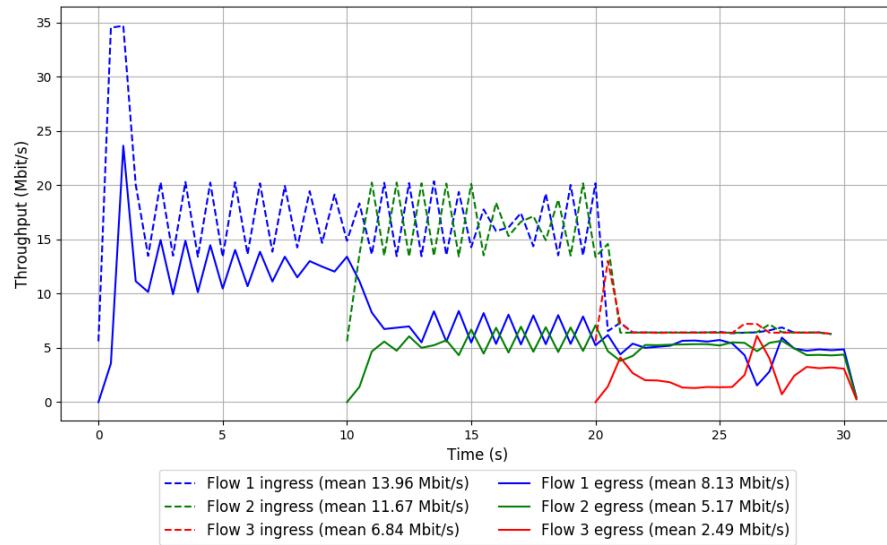


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-06-27 07:51:59
End at: 2019-06-27 07:52:29
Local clock offset: -0.463 ms
Remote clock offset: -47.367 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 56.954 ms
Loss rate: 48.36%
-- Flow 1:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 59.669 ms
Loss rate: 41.79%
-- Flow 2:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 55.058 ms
Loss rate: 55.71%
-- Flow 3:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 60.452 ms
Loss rate: 63.59%
```

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

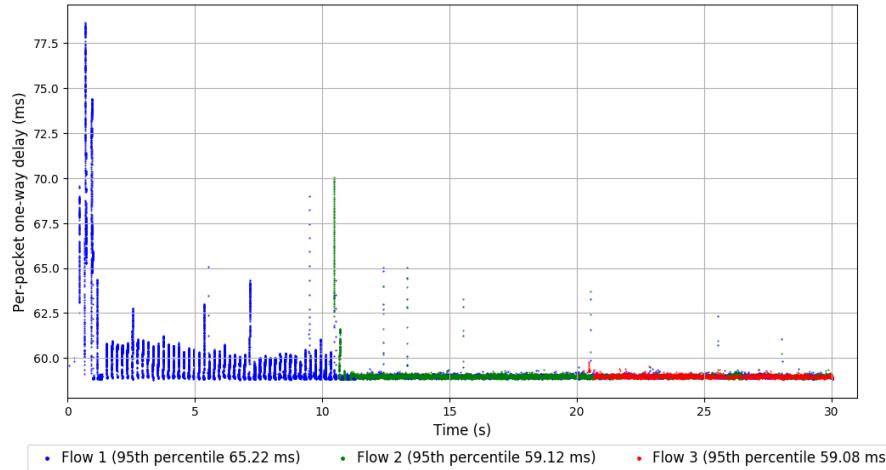
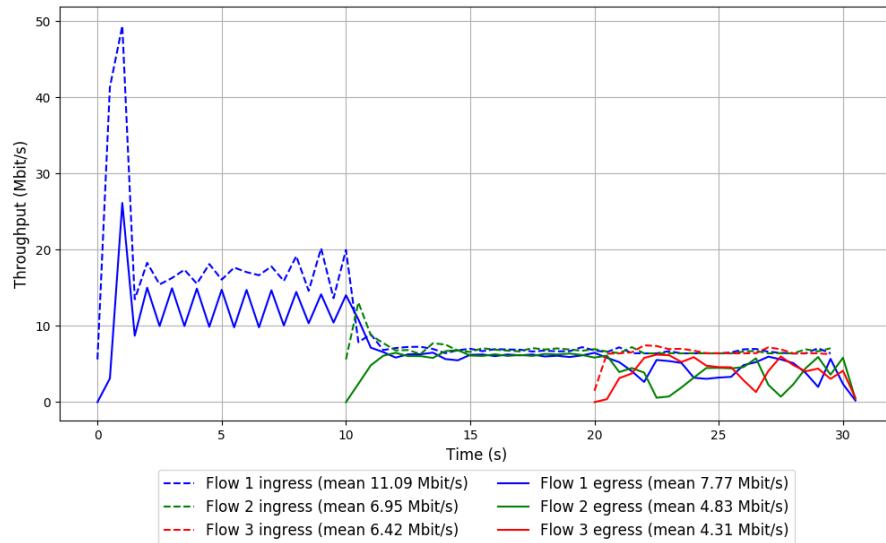


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-06-27 08:23:48
End at: 2019-06-27 08:24:18
Local clock offset: -0.847 ms
Remote clock offset: -43.056 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.42 Mbit/s
95th percentile per-packet one-way delay: 61.848 ms
Loss rate: 30.44%
-- Flow 1:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 65.225 ms
Loss rate: 29.98%
-- Flow 2:
Average throughput: 4.83 Mbit/s
95th percentile per-packet one-way delay: 59.115 ms
Loss rate: 30.42%
-- Flow 3:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 59.075 ms
Loss rate: 32.89%
```

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

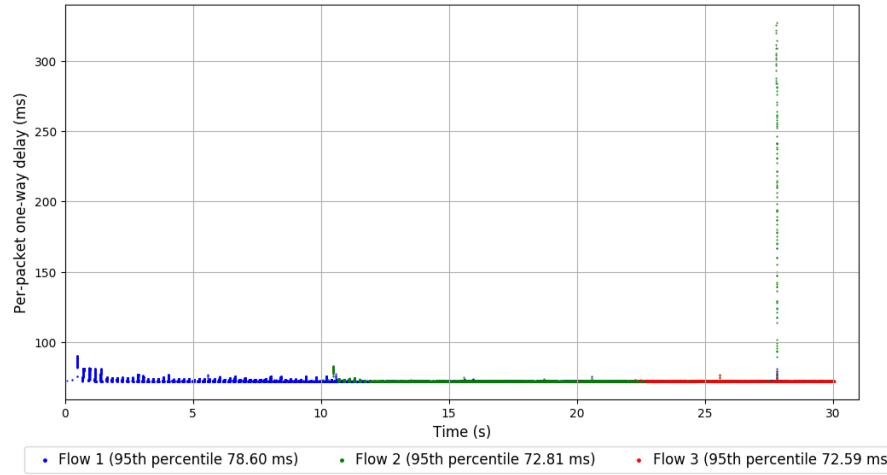
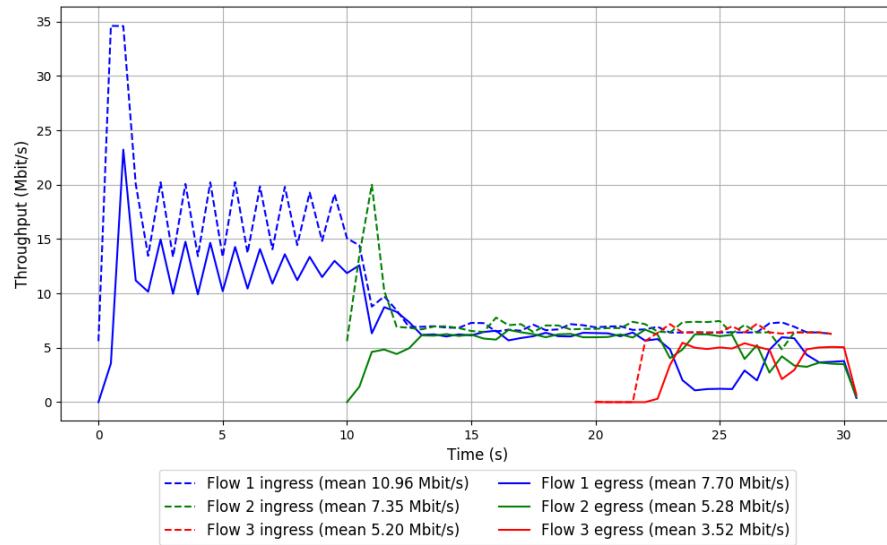


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-06-27 09:05:03
End at: 2019-06-27 09:05:33
Local clock offset: -0.024 ms
Remote clock offset: -29.019 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 75.667 ms
Loss rate: 29.51%
-- Flow 1:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 78.600 ms
Loss rate: 29.68%
-- Flow 2:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 72.812 ms
Loss rate: 28.14%
-- Flow 3:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 72.588 ms
Loss rate: 32.35%
```

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

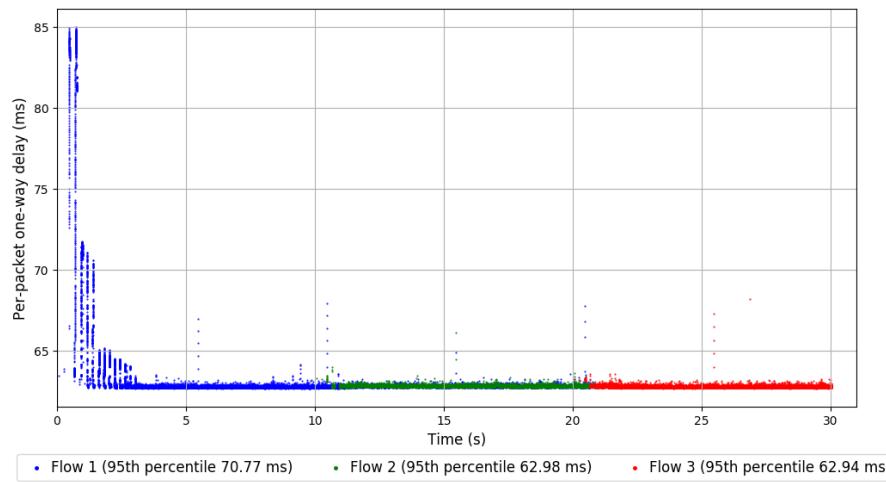
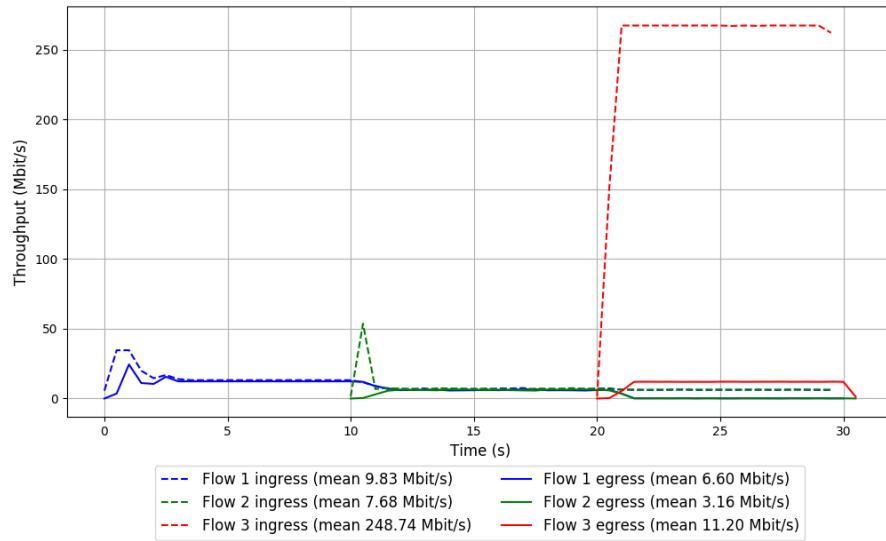


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-06-27 09:37:01
End at: 2019-06-27 09:37:31
Local clock offset: -1.526 ms
Remote clock offset: -39.576 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 64.489 ms
Loss rate: 87.29%
-- Flow 1:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 70.772 ms
Loss rate: 33.09%
-- Flow 2:
Average throughput: 3.16 Mbit/s
95th percentile per-packet one-way delay: 62.980 ms
Loss rate: 58.83%
-- Flow 3:
Average throughput: 11.20 Mbit/s
95th percentile per-packet one-way delay: 62.935 ms
Loss rate: 95.50%
```

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

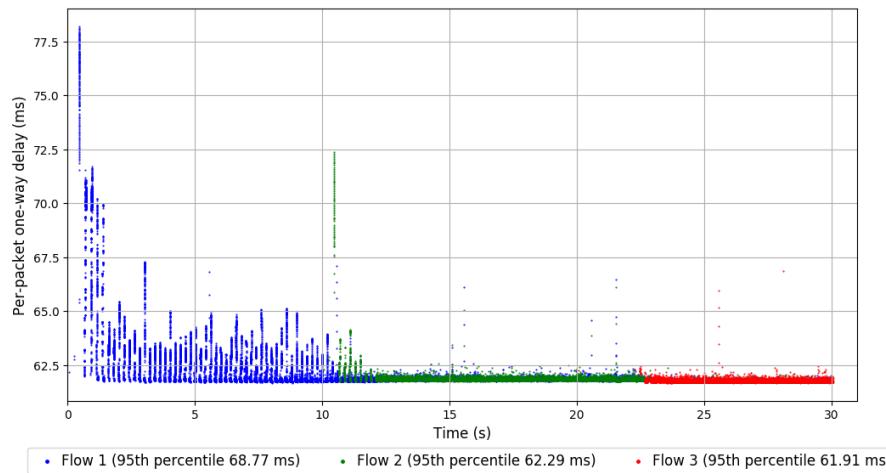
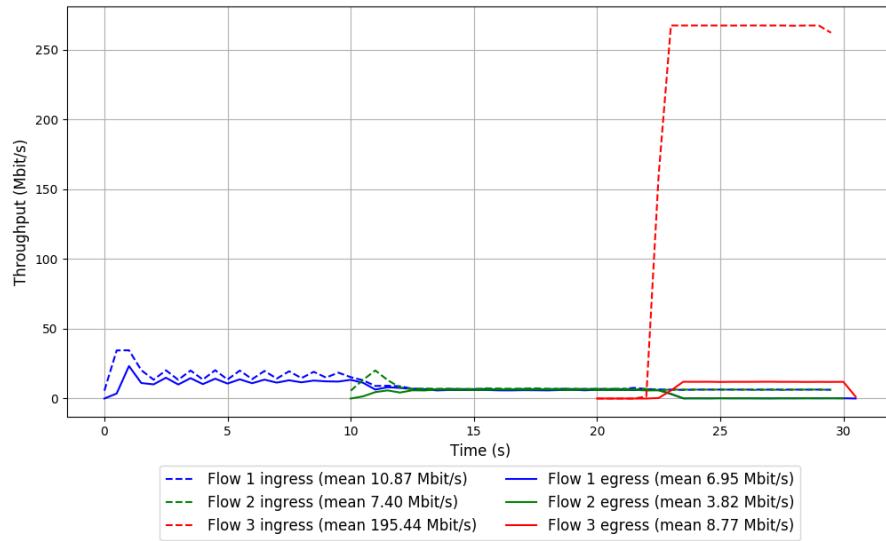


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-06-27 10:08:54
End at: 2019-06-27 10:09:24
Local clock offset: -0.781 ms
Remote clock offset: -40.101 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 64.917 ms
Loss rate: 84.66%
-- Flow 1:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 68.767 ms
Loss rate: 36.18%
-- Flow 2:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 62.289 ms
Loss rate: 48.51%
-- Flow 3:
Average throughput: 8.77 Mbit/s
95th percentile per-packet one-way delay: 61.914 ms
Loss rate: 95.51%
```

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

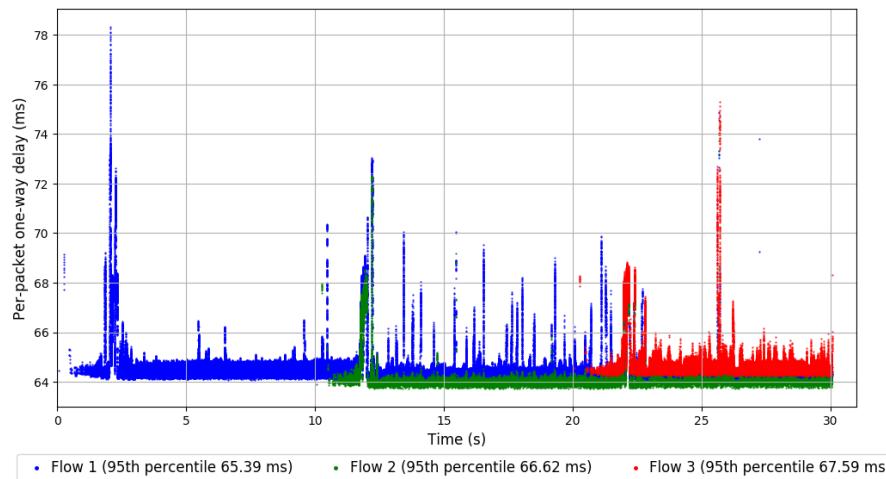
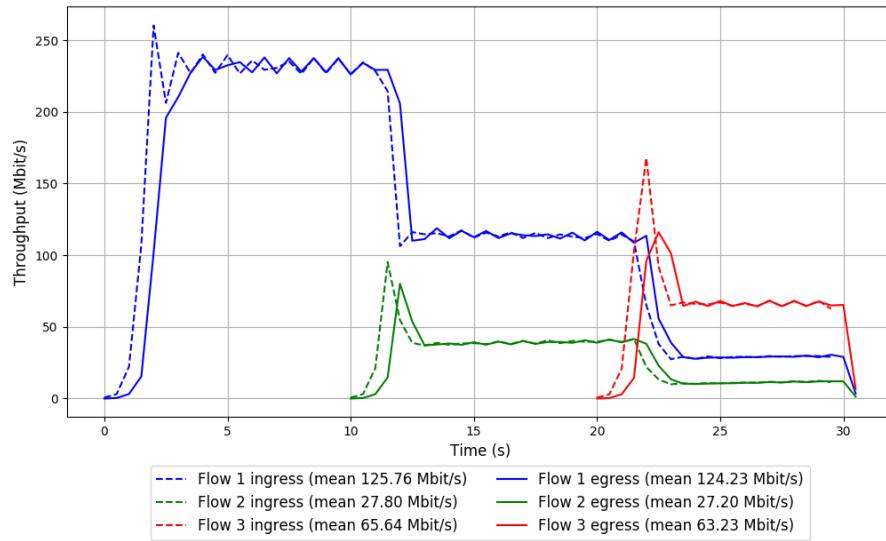


Run 1: Statistics of TCP Vegas

```
Start at: 2019-06-27 07:41:33
End at: 2019-06-27 07:42:03
Local clock offset: -0.474 ms
Remote clock offset: -37.552 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 163.37 Mbit/s
95th percentile per-packet one-way delay: 65.808 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 124.23 Mbit/s
95th percentile per-packet one-way delay: 65.392 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 27.20 Mbit/s
95th percentile per-packet one-way delay: 66.623 ms
Loss rate: 2.15%
-- Flow 3:
Average throughput: 63.23 Mbit/s
95th percentile per-packet one-way delay: 67.591 ms
Loss rate: 3.64%
```

Run 1: Report of TCP Vegas — Data Link

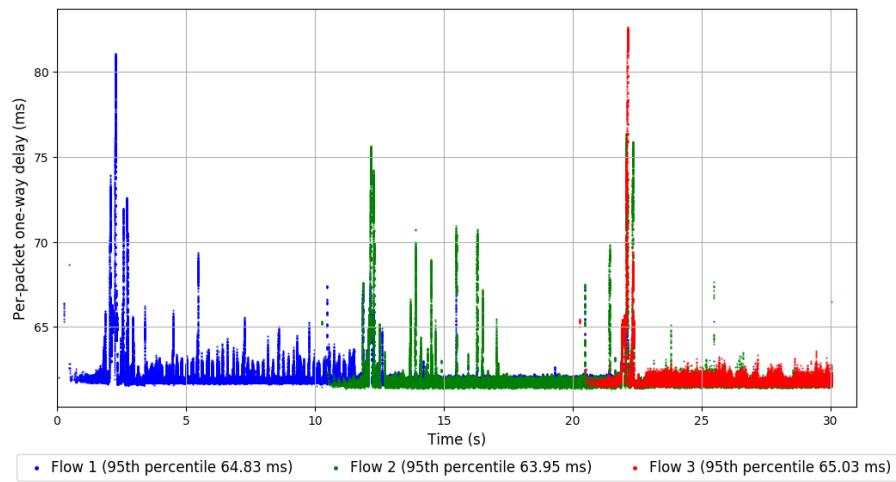
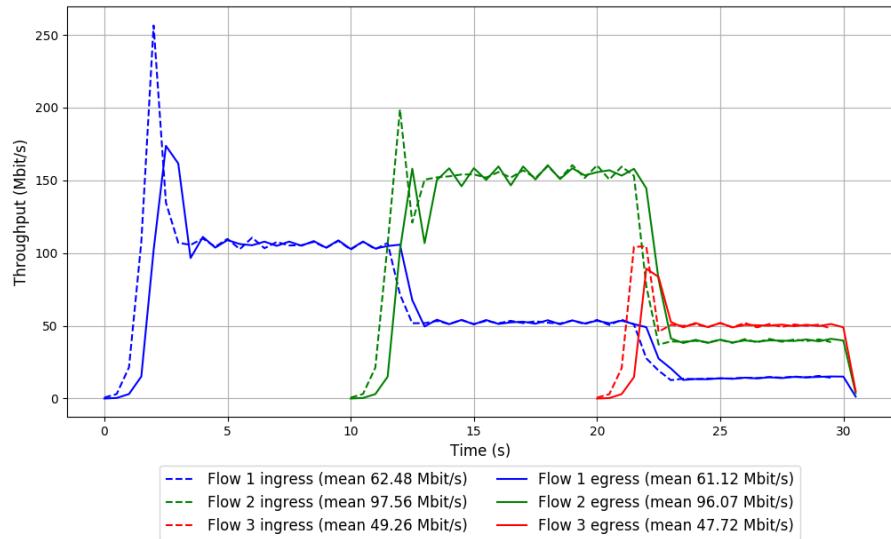


Run 2: Statistics of TCP Vegas

```
Start at: 2019-06-27 08:13:24
End at: 2019-06-27 08:13:54
Local clock offset: 0.253 ms
Remote clock offset: -39.394 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 140.97 Mbit/s
95th percentile per-packet one-way delay: 64.667 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 61.12 Mbit/s
95th percentile per-packet one-way delay: 64.831 ms
Loss rate: 2.17%
-- Flow 2:
Average throughput: 96.07 Mbit/s
95th percentile per-packet one-way delay: 63.955 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 47.72 Mbit/s
95th percentile per-packet one-way delay: 65.033 ms
Loss rate: 3.10%
```

Run 2: Report of TCP Vegas — Data Link

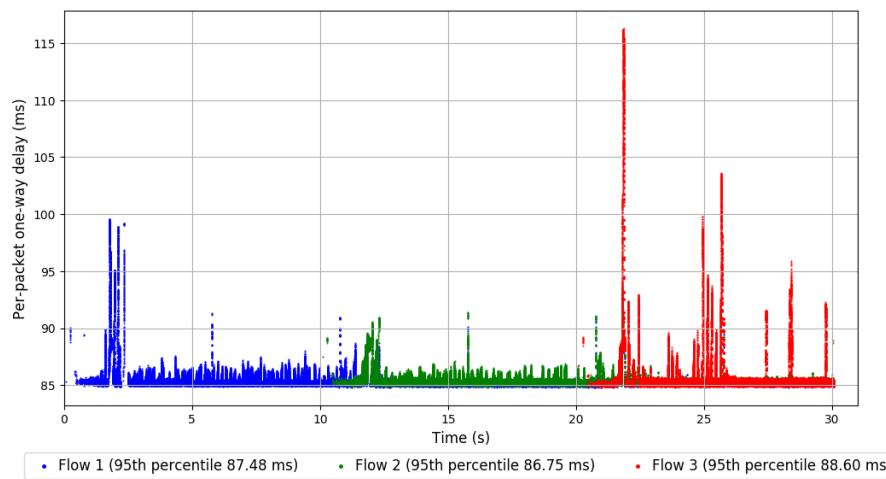
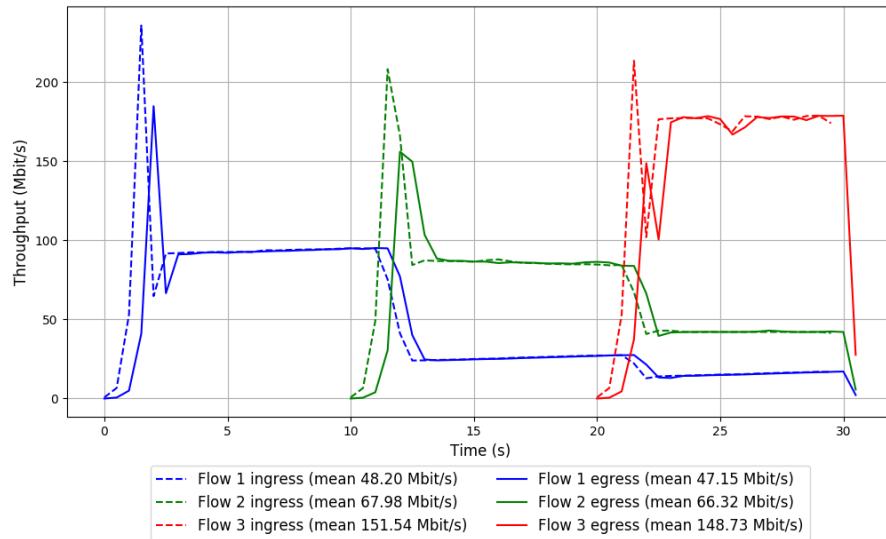


Run 3: Statistics of TCP Vegas

```
Start at: 2019-06-27 08:54:51
End at: 2019-06-27 08:55:21
Local clock offset: 0.532 ms
Remote clock offset: 9.982 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 140.77 Mbit/s
95th percentile per-packet one-way delay: 87.789 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 47.15 Mbit/s
95th percentile per-packet one-way delay: 87.479 ms
Loss rate: 2.19%
-- Flow 2:
Average throughput: 66.32 Mbit/s
95th percentile per-packet one-way delay: 86.751 ms
Loss rate: 2.45%
-- Flow 3:
Average throughput: 148.73 Mbit/s
95th percentile per-packet one-way delay: 88.596 ms
Loss rate: 1.86%
```

Run 3: Report of TCP Vegas — Data Link

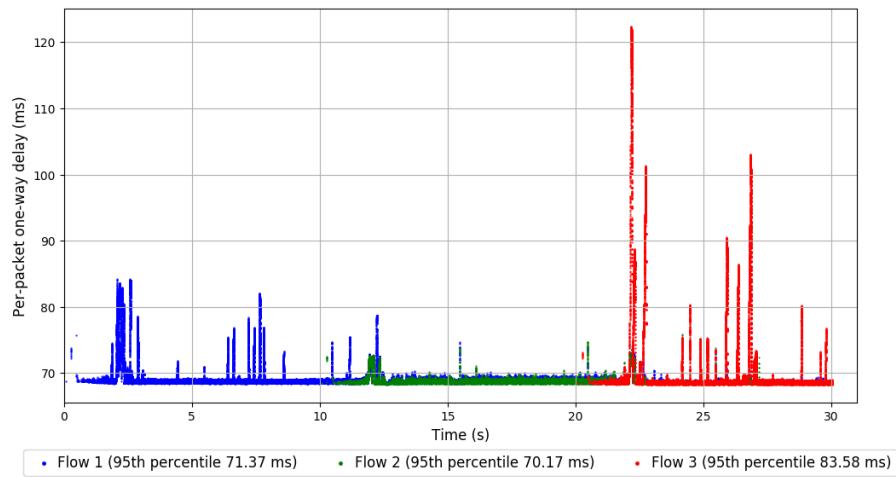
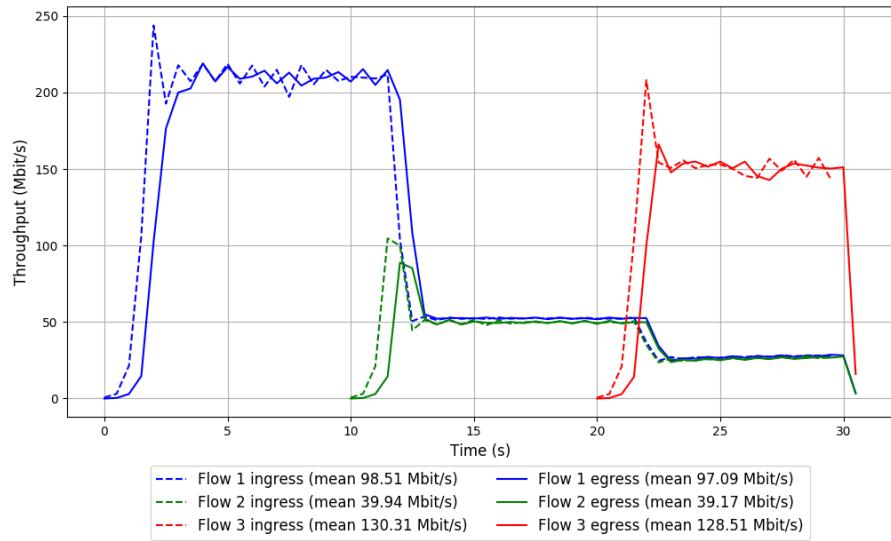


Run 4: Statistics of TCP Vegas

```
Start at: 2019-06-27 09:26:36
End at: 2019-06-27 09:27:06
Local clock offset: -1.571 ms
Remote clock offset: -34.18 ms

# Below is generated by plot.py at 2019-06-27 11:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 165.92 Mbit/s
95th percentile per-packet one-way delay: 71.919 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 71.372 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 39.17 Mbit/s
95th percentile per-packet one-way delay: 70.171 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 128.51 Mbit/s
95th percentile per-packet one-way delay: 83.582 ms
Loss rate: 1.37%
```

Run 4: Report of TCP Vegas — Data Link

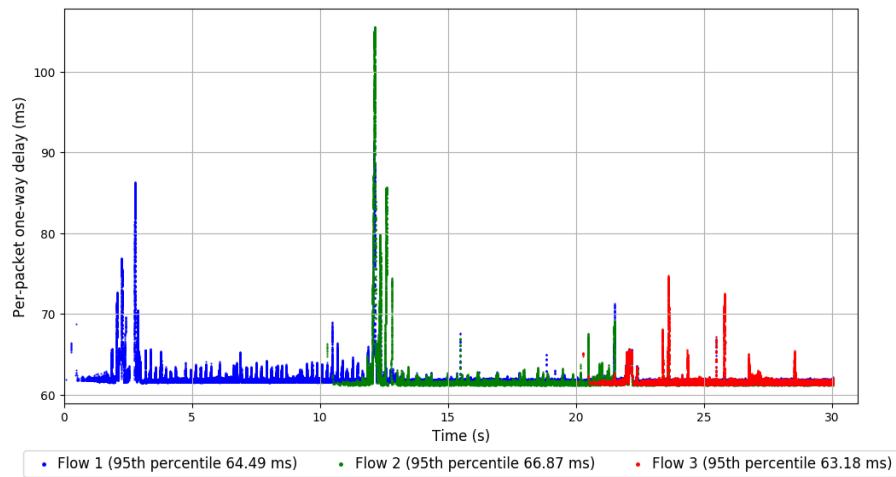
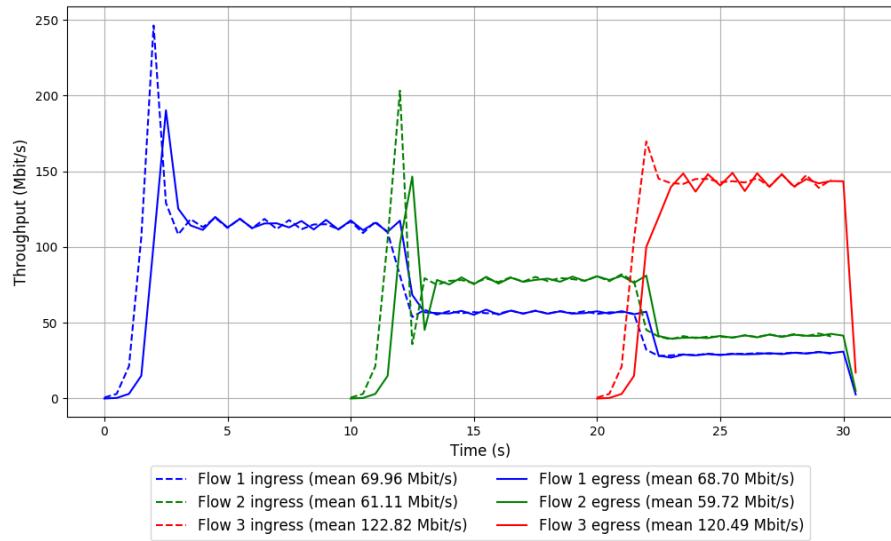


Run 5: Statistics of TCP Vegas

```
Start at: 2019-06-27 09:58:29
End at: 2019-06-27 09:58:59
Local clock offset: -1.011 ms
Remote clock offset: -40.63 ms

# Below is generated by plot.py at 2019-06-27 11:08:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 148.58 Mbit/s
95th percentile per-packet one-way delay: 64.531 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 68.70 Mbit/s
95th percentile per-packet one-way delay: 64.492 ms
Loss rate: 1.81%
-- Flow 2:
Average throughput: 59.72 Mbit/s
95th percentile per-packet one-way delay: 66.874 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 120.49 Mbit/s
95th percentile per-packet one-way delay: 63.177 ms
Loss rate: 1.90%
```

Run 5: Report of TCP Vegas — Data Link

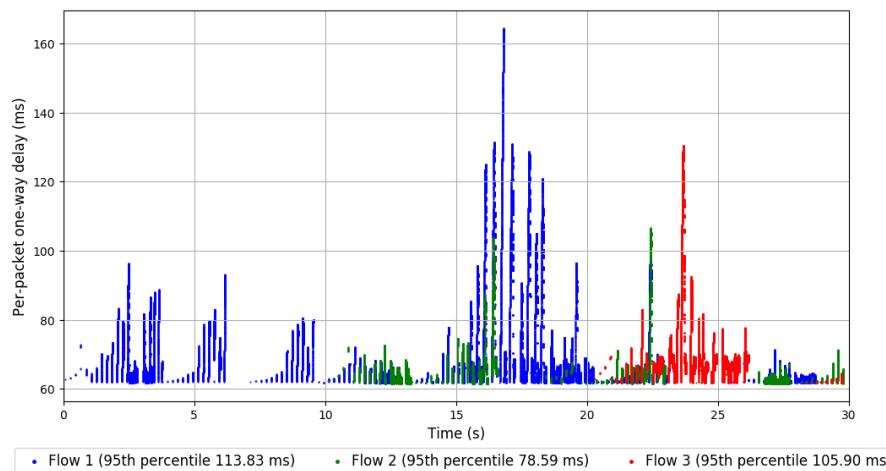
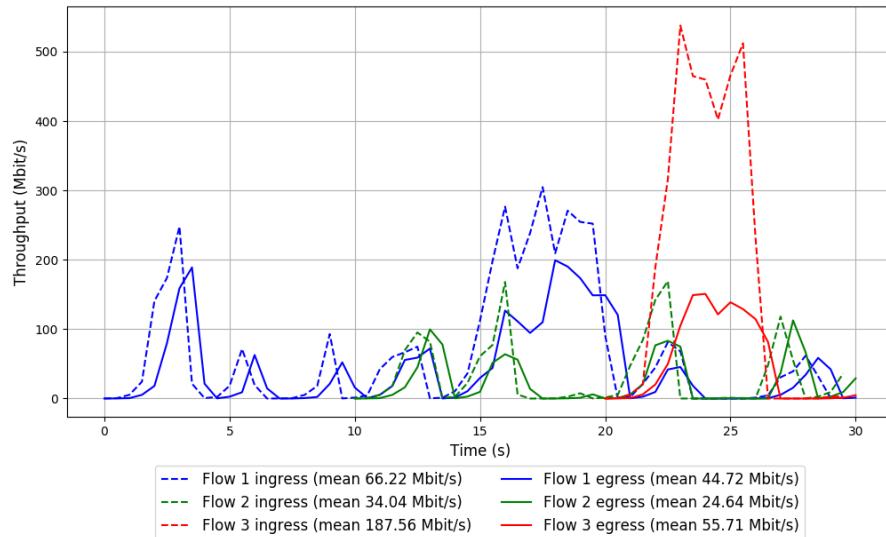


Run 1: Statistics of Verus

```
Start at: 2019-06-27 08:03:21
End at: 2019-06-27 08:03:51
Local clock offset: 0.181 ms
Remote clock offset: -39.237 ms

# Below is generated by plot.py at 2019-06-27 11:08:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.97 Mbit/s
95th percentile per-packet one-way delay: 107.593 ms
Loss rate: 47.12%
-- Flow 1:
Average throughput: 44.72 Mbit/s
95th percentile per-packet one-way delay: 113.825 ms
Loss rate: 32.46%
-- Flow 2:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 78.590 ms
Loss rate: 27.60%
-- Flow 3:
Average throughput: 55.71 Mbit/s
95th percentile per-packet one-way delay: 105.899 ms
Loss rate: 70.30%
```

Run 1: Report of Verus — Data Link

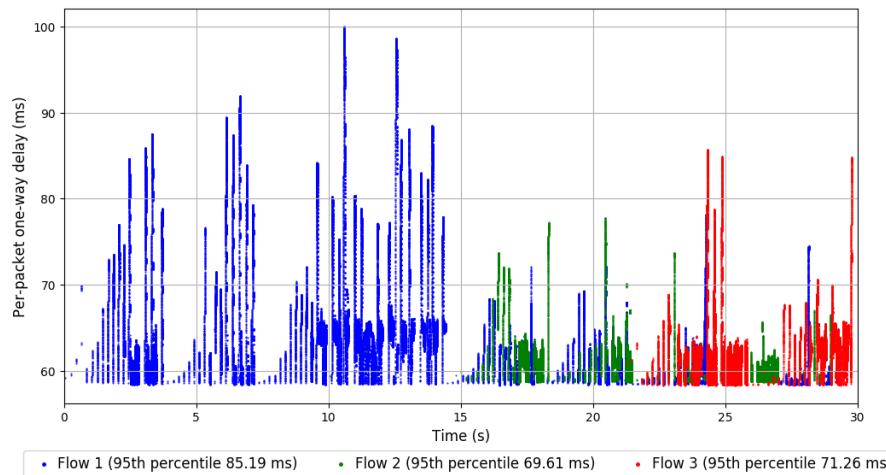
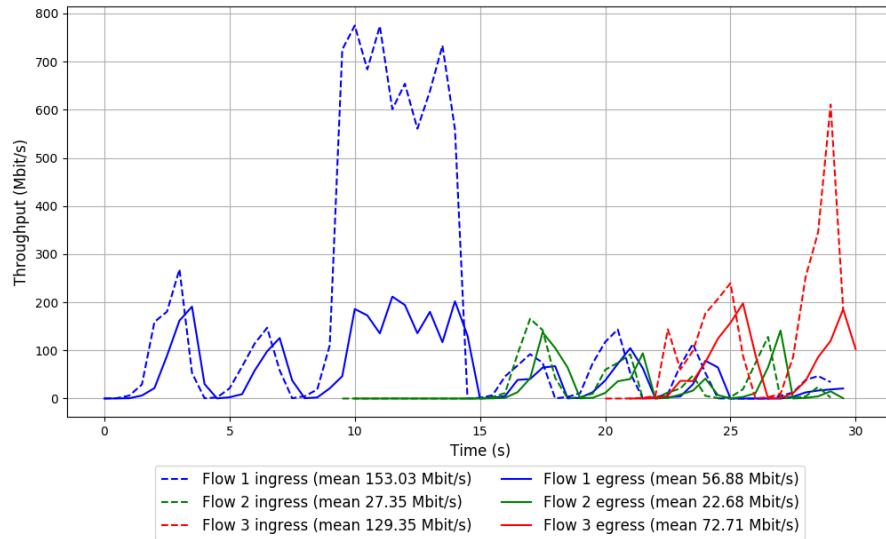


Run 2: Statistics of Verus

```
Start at: 2019-06-27 08:35:09
End at: 2019-06-27 08:35:39
Local clock offset: 0.304 ms
Remote clock offset: -42.352 ms

# Below is generated by plot.py at 2019-06-27 11:08:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.96 Mbit/s
95th percentile per-packet one-way delay: 82.209 ms
Loss rate: 56.56%
-- Flow 1:
Average throughput: 56.88 Mbit/s
95th percentile per-packet one-way delay: 85.188 ms
Loss rate: 63.08%
-- Flow 2:
Average throughput: 22.68 Mbit/s
95th percentile per-packet one-way delay: 69.613 ms
Loss rate: 17.06%
-- Flow 3:
Average throughput: 72.71 Mbit/s
95th percentile per-packet one-way delay: 71.260 ms
Loss rate: 49.54%
```

Run 2: Report of Verus — Data Link

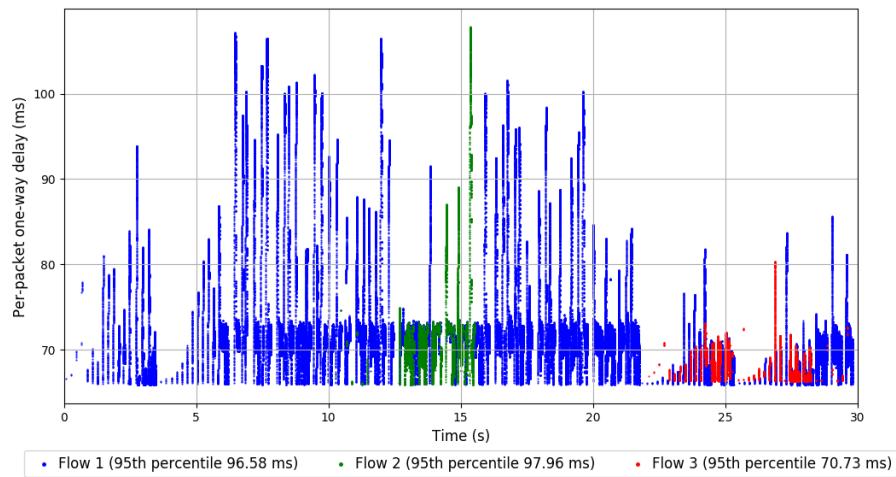
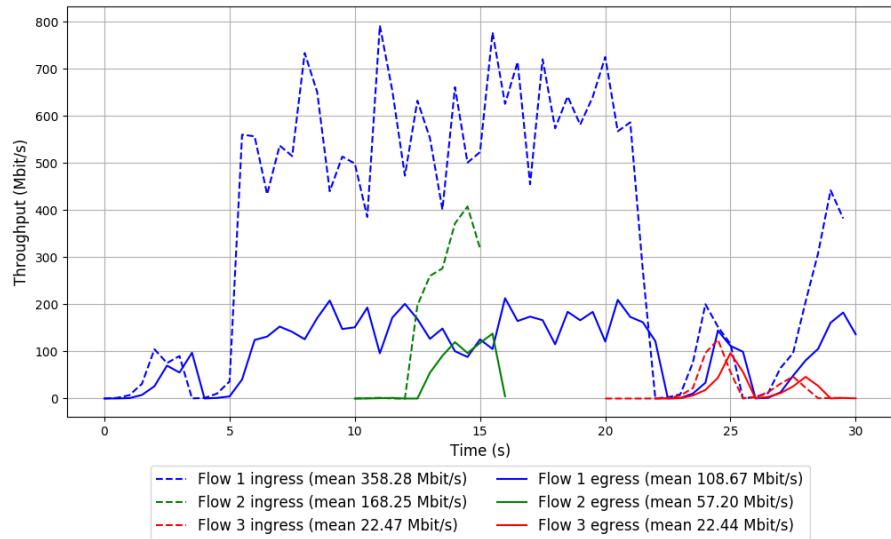


Run 3: Statistics of Verus

```
Start at: 2019-06-27 09:16:27
End at: 2019-06-27 09:16:57
Local clock offset: -0.464 ms
Remote clock offset: -35.805 ms

# Below is generated by plot.py at 2019-06-27 11:09:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 124.85 Mbit/s
95th percentile per-packet one-way delay: 96.322 ms
Loss rate: 68.49%
-- Flow 1:
Average throughput: 108.67 Mbit/s
95th percentile per-packet one-way delay: 96.585 ms
Loss rate: 69.67%
-- Flow 2:
Average throughput: 57.20 Mbit/s
95th percentile per-packet one-way delay: 97.963 ms
Loss rate: 65.97%
-- Flow 3:
Average throughput: 22.44 Mbit/s
95th percentile per-packet one-way delay: 70.732 ms
Loss rate: 21.02%
```

Run 3: Report of Verus — Data Link

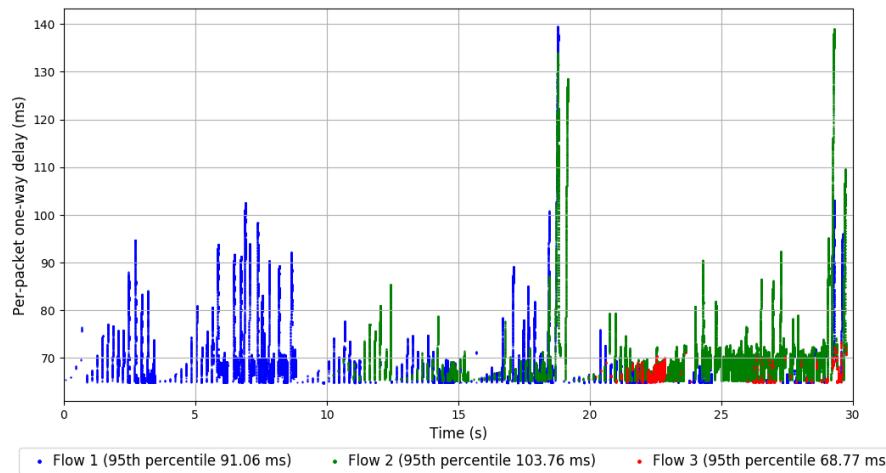
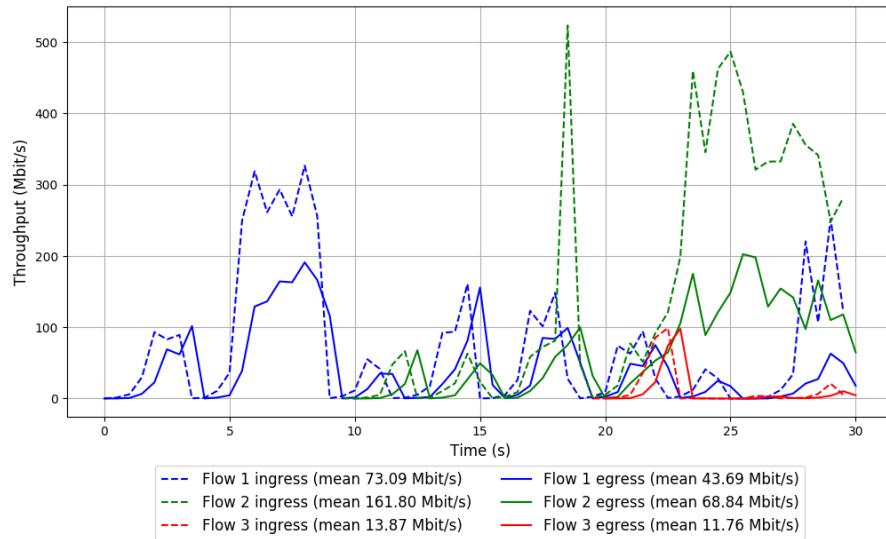


Run 4: Statistics of Verus

```
Start at: 2019-06-27 09:48:28
End at: 2019-06-27 09:48:58
Local clock offset: -0.628 ms
Remote clock offset: -36.741 ms

# Below is generated by plot.py at 2019-06-27 11:09:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 91.890 ms
Loss rate: 49.61%
-- Flow 1:
Average throughput: 43.69 Mbit/s
95th percentile per-packet one-way delay: 91.056 ms
Loss rate: 40.22%
-- Flow 2:
Average throughput: 68.84 Mbit/s
95th percentile per-packet one-way delay: 103.764 ms
Loss rate: 57.44%
-- Flow 3:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 68.769 ms
Loss rate: 15.22%
```

Run 4: Report of Verus — Data Link

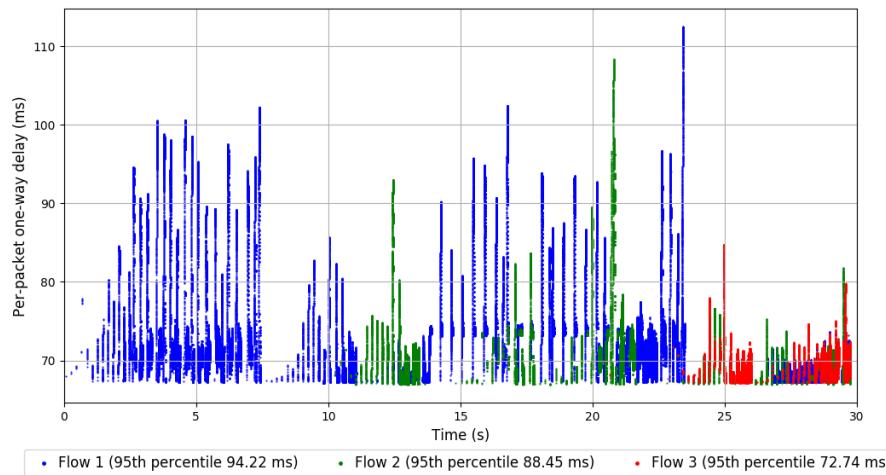
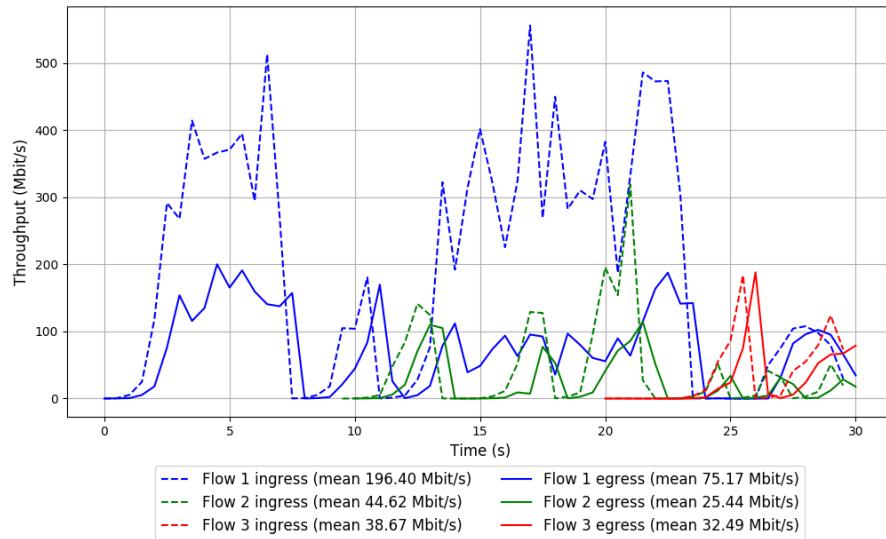


Run 5: Statistics of Verus

```
Start at: 2019-06-27 10:20:22
End at: 2019-06-27 10:20:52
Local clock offset: -1.104 ms
Remote clock offset: -35.327 ms

# Below is generated by plot.py at 2019-06-27 11:09:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 102.24 Mbit/s
95th percentile per-packet one-way delay: 93.180 ms
Loss rate: 57.06%
-- Flow 1:
Average throughput: 75.17 Mbit/s
95th percentile per-packet one-way delay: 94.216 ms
Loss rate: 61.73%
-- Flow 2:
Average throughput: 25.44 Mbit/s
95th percentile per-packet one-way delay: 88.446 ms
Loss rate: 43.00%
-- Flow 3:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 72.742 ms
Loss rate: 15.97%
```

Run 5: Report of Verus — Data Link

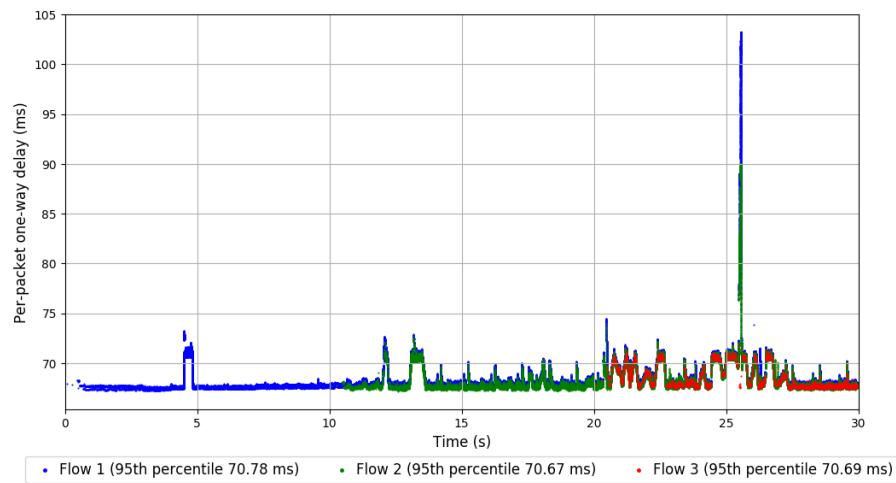
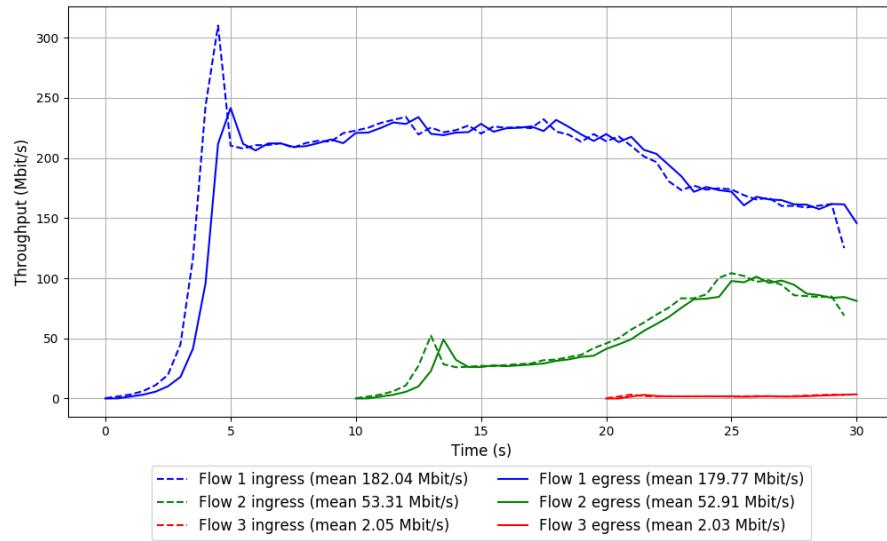


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-06-27 07:58:54
End at: 2019-06-27 07:59:24
Local clock offset: 0.496 ms
Remote clock offset: -33.366 ms

# Below is generated by plot.py at 2019-06-27 11:10:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 215.62 Mbit/s
95th percentile per-packet one-way delay: 70.770 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 179.77 Mbit/s
95th percentile per-packet one-way delay: 70.785 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 52.91 Mbit/s
95th percentile per-packet one-way delay: 70.670 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 70.689 ms
Loss rate: 0.80%
```

Run 1: Report of PCC-Vivace — Data Link

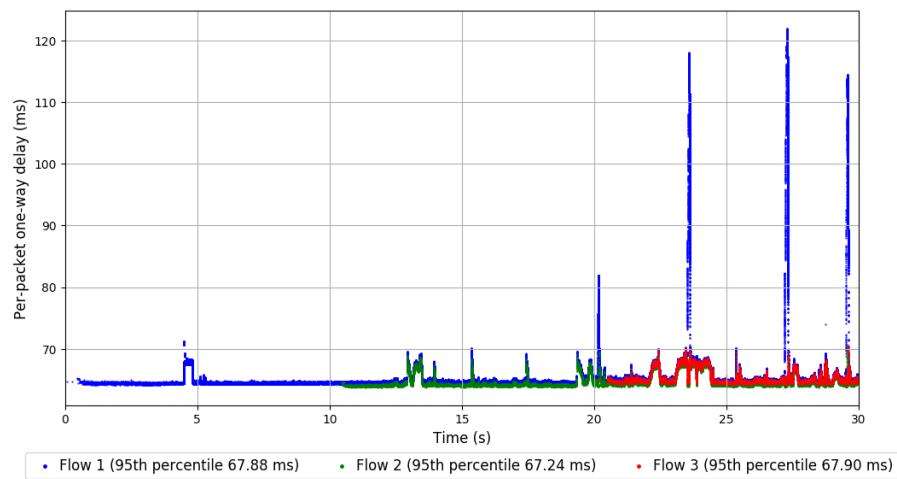
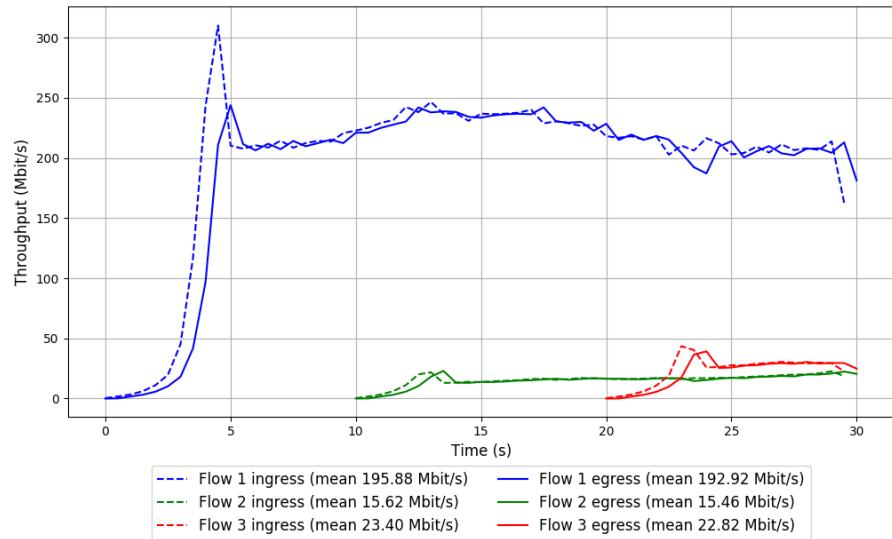


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-06-27 08:30:42
End at: 2019-06-27 08:31:12
Local clock offset: 0.242 ms
Remote clock offset: -36.545 ms

# Below is generated by plot.py at 2019-06-27 11:10:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 210.73 Mbit/s
95th percentile per-packet one-way delay: 67.858 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 192.92 Mbit/s
95th percentile per-packet one-way delay: 67.881 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 67.238 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 22.82 Mbit/s
95th percentile per-packet one-way delay: 67.904 ms
Loss rate: 2.50%
```

Run 2: Report of PCC-Vivace — Data Link

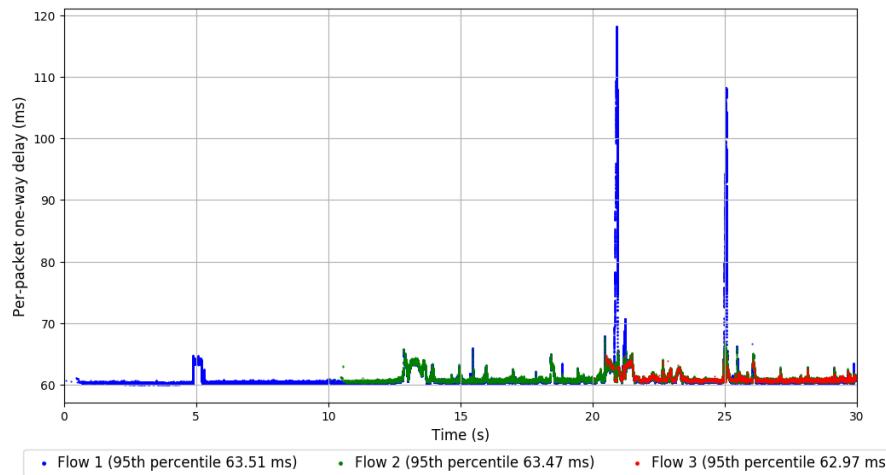
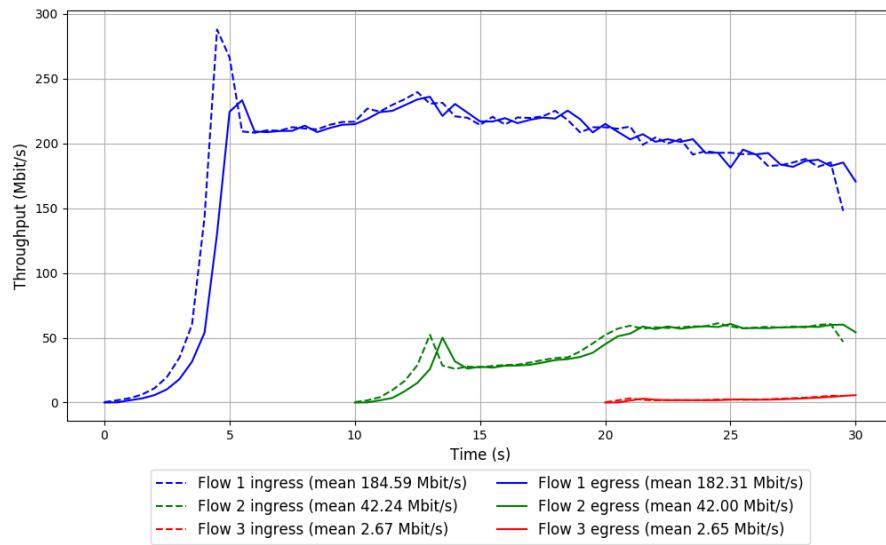


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-06-27 09:12:00
End at: 2019-06-27 09:12:30
Local clock offset: 0.495 ms
Remote clock offset: -40.454 ms

# Below is generated by plot.py at 2019-06-27 11:10:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 211.12 Mbit/s
95th percentile per-packet one-way delay: 63.501 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 182.31 Mbit/s
95th percentile per-packet one-way delay: 63.507 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 42.00 Mbit/s
95th percentile per-packet one-way delay: 63.468 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 62.973 ms
Loss rate: 0.62%
```

Run 3: Report of PCC-Vivace — Data Link

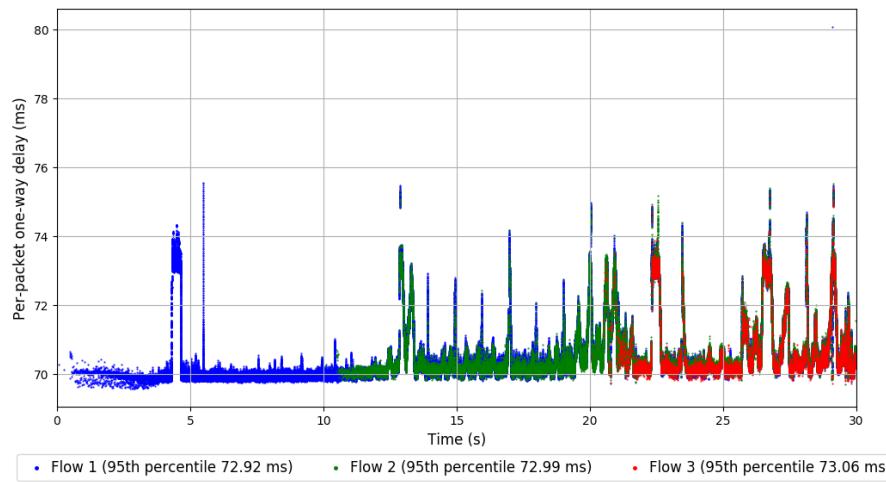
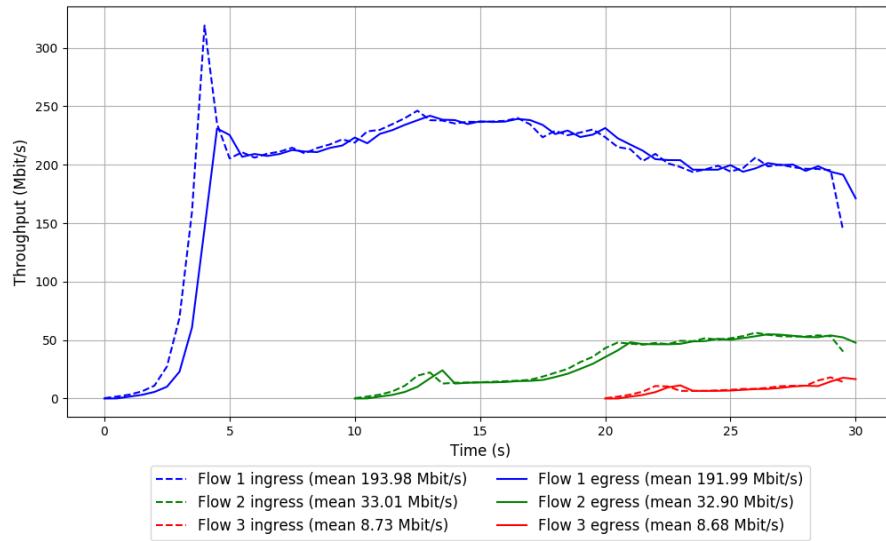


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-06-27 09:43:59
End at: 2019-06-27 09:44:29
Local clock offset: -0.916 ms
Remote clock offset: -31.945 ms

# Below is generated by plot.py at 2019-06-27 11:10:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 216.73 Mbit/s
95th percentile per-packet one-way delay: 72.939 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 191.99 Mbit/s
95th percentile per-packet one-way delay: 72.922 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 32.90 Mbit/s
95th percentile per-packet one-way delay: 72.988 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 73.055 ms
Loss rate: 0.52%
```

Run 4: Report of PCC-Vivace — Data Link

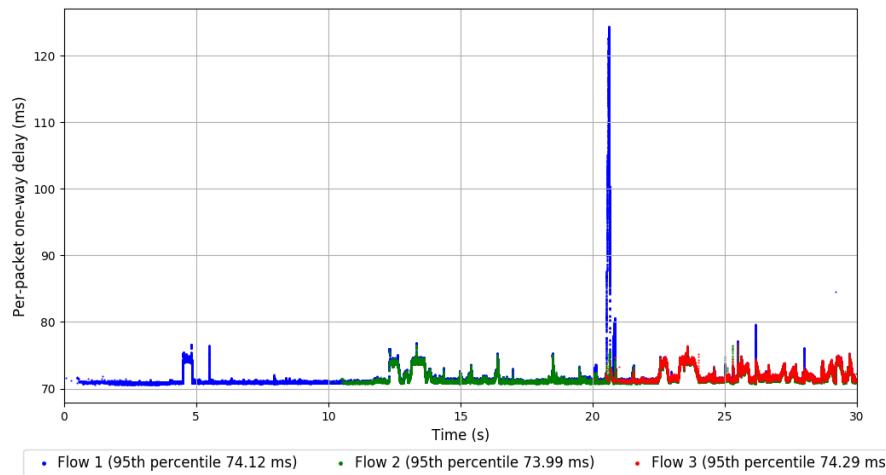
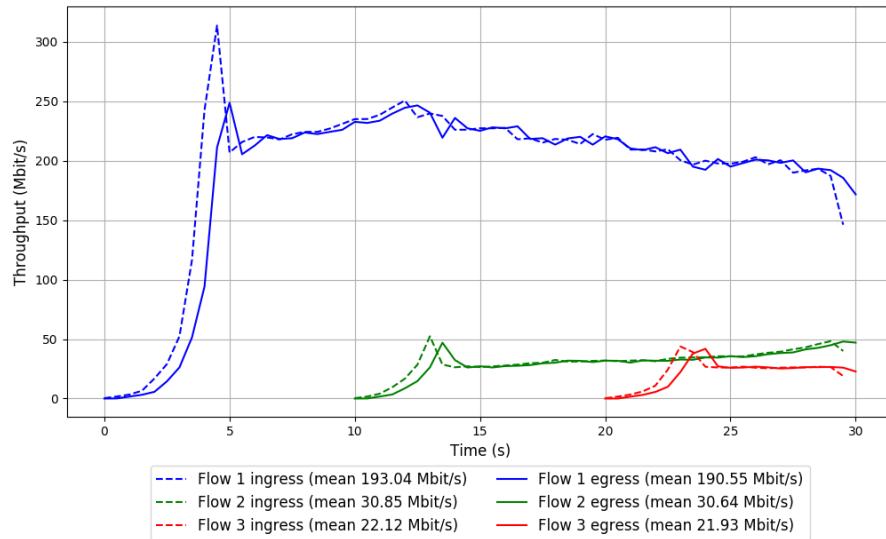


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-06-27 10:15:53
End at: 2019-06-27 10:16:23
Local clock offset: 0.049 ms
Remote clock offset: -30.222 ms

# Below is generated by plot.py at 2019-06-27 11:10:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 218.16 Mbit/s
95th percentile per-packet one-way delay: 74.118 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 190.55 Mbit/s
95th percentile per-packet one-way delay: 74.119 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 30.64 Mbit/s
95th percentile per-packet one-way delay: 73.986 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 21.93 Mbit/s
95th percentile per-packet one-way delay: 74.290 ms
Loss rate: 0.85%
```

Run 5: Report of PCC-Vivace — Data Link

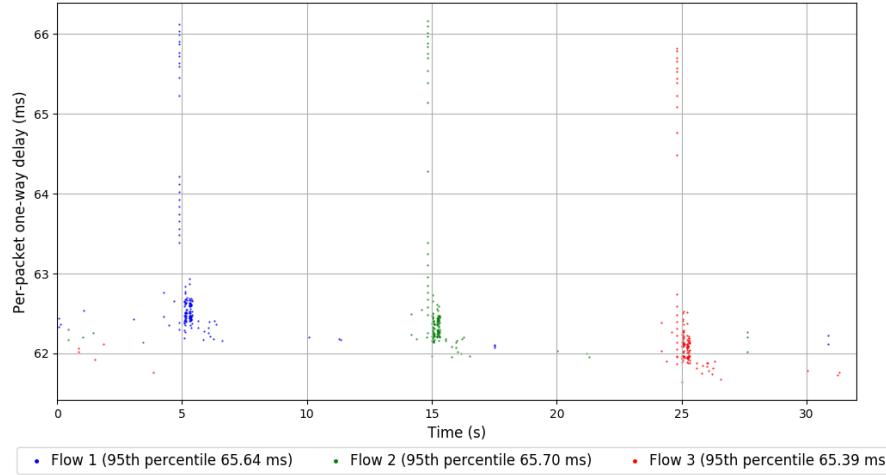
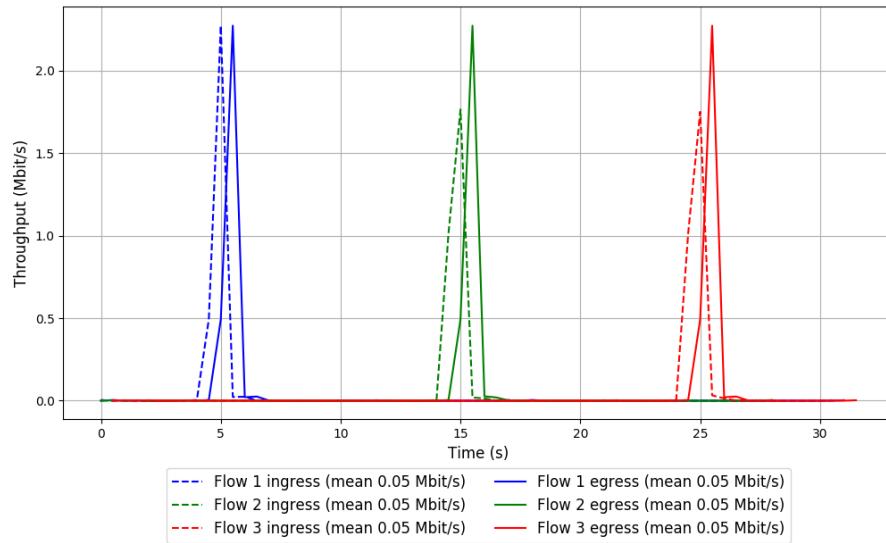


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2019-06-27 07:54:35
End at: 2019-06-27 07:55:05
Local clock offset: 0.504 ms
Remote clock offset: -38.619 ms

# Below is generated by plot.py at 2019-06-27 11:10:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 65.543 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.635 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.705 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.392 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

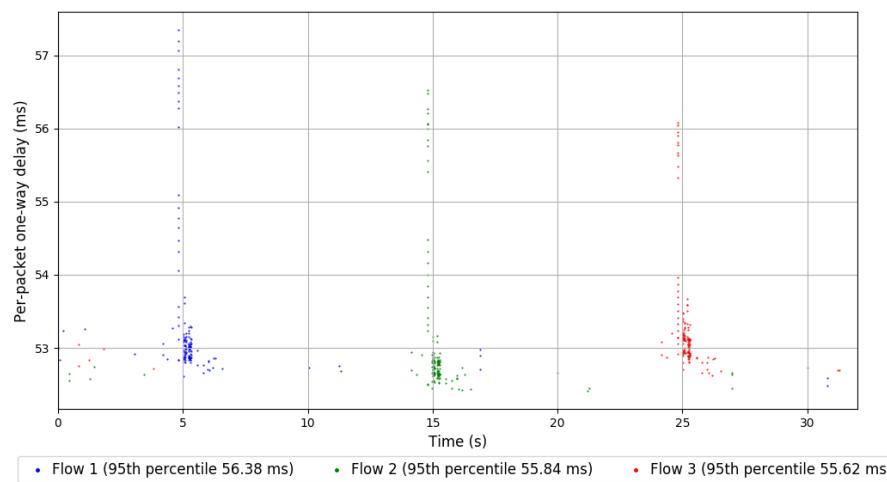
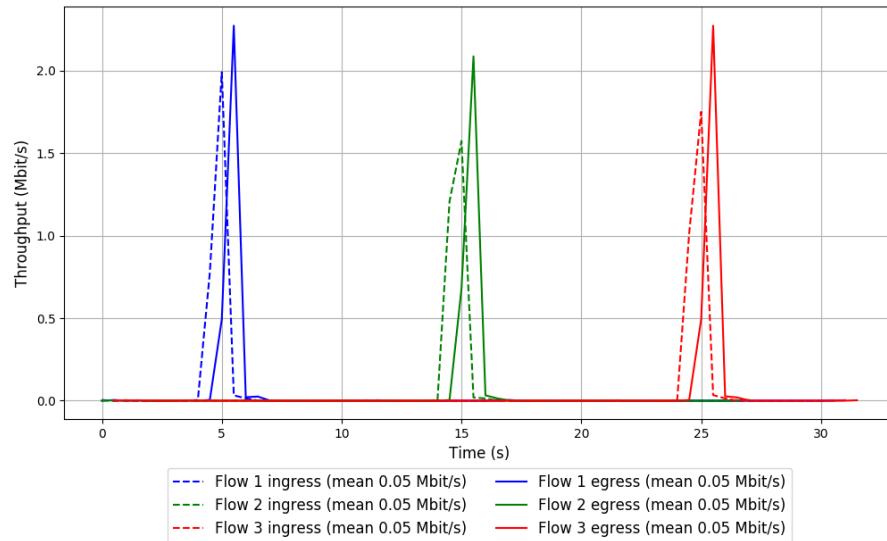


Run 2: Statistics of WebRTC media

```
Start at: 2019-06-27 08:26:23
End at: 2019-06-27 08:26:53
Local clock offset: -0.059 ms
Remote clock offset: -48.619 ms

# Below is generated by plot.py at 2019-06-27 11:10:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 55.809 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.376 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 55.837 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 55.625 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

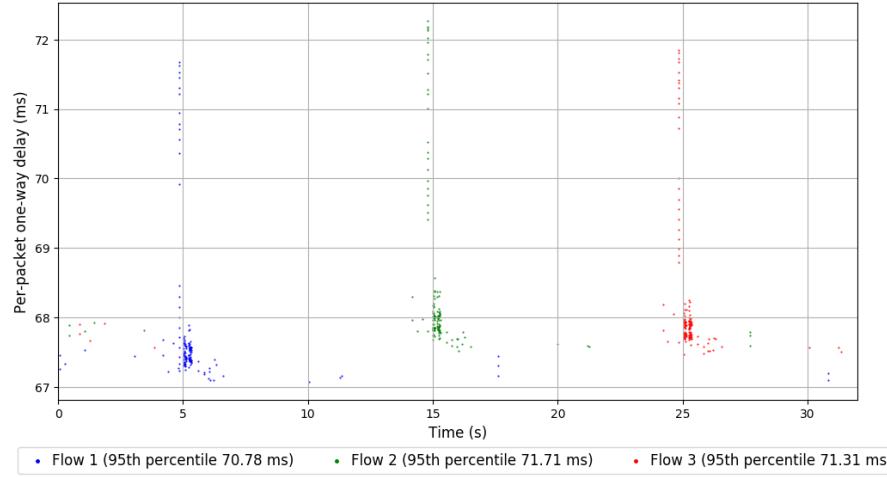
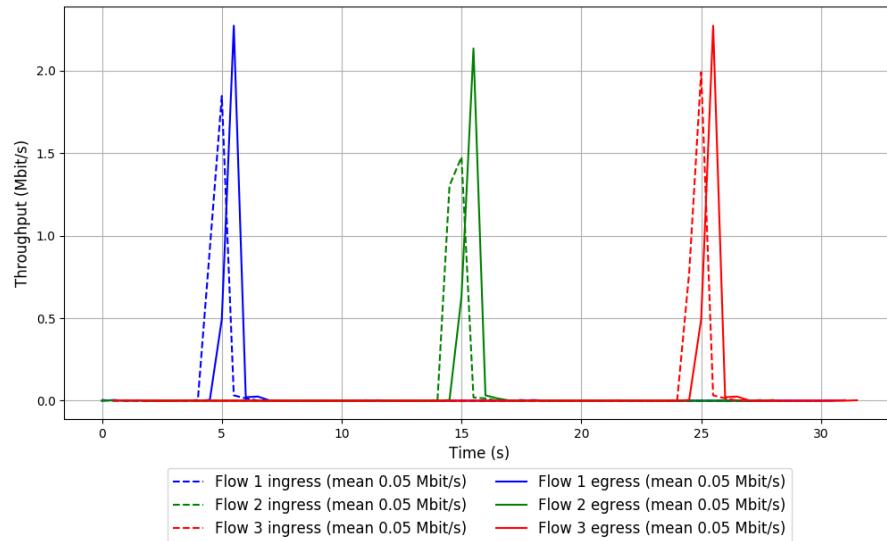


Run 3: Statistics of WebRTC media

```
Start at: 2019-06-27 09:07:39
End at: 2019-06-27 09:08:09
Local clock offset: -1.365 ms
Remote clock offset: -35.254 ms

# Below is generated by plot.py at 2019-06-27 11:10:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 71.279 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 70.781 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 71.712 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 71.308 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

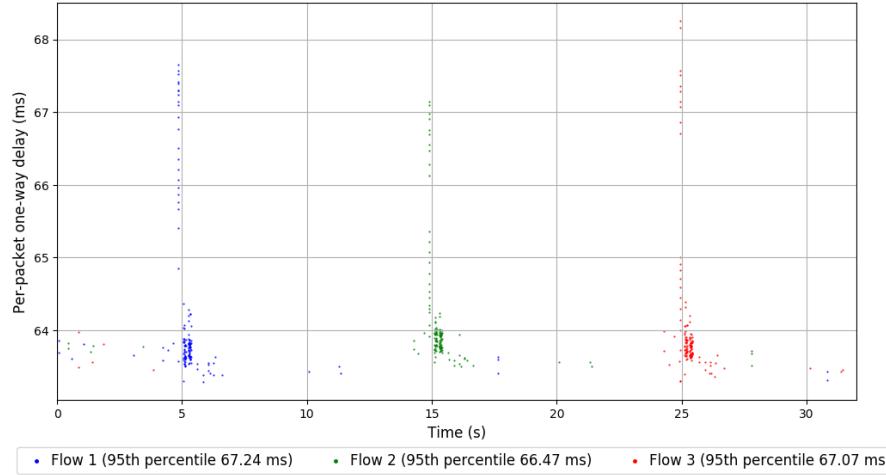
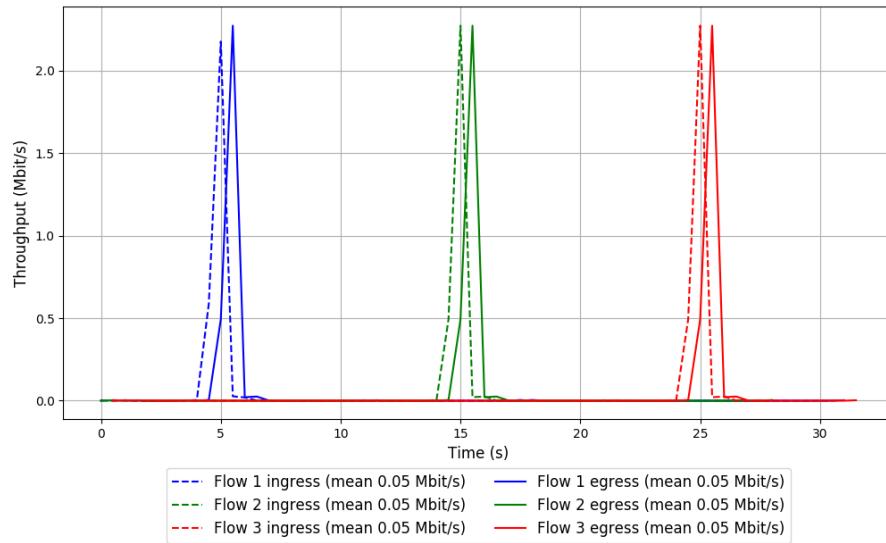


Run 4: Statistics of WebRTC media

```
Start at: 2019-06-27 09:39:39
End at: 2019-06-27 09:40:09
Local clock offset: -0.82 ms
Remote clock offset: -38.238 ms

# Below is generated by plot.py at 2019-06-27 11:10:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 66.907 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.242 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.475 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.067 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-06-27 10:11:31
End at: 2019-06-27 10:12:01
Local clock offset: -0.276 ms
Remote clock offset: -34.664 ms

# Below is generated by plot.py at 2019-06-27 11:10:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 70.453 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 70.803 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 70.314 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 70.515 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

