

## Pantheon Report

Generated at 2019-07-12 13:39:15 (UTC).  
Data path: GCE London on `ens4` (*remote*) → GCE Sydney on `ens4` (*local*).  
Repeated the test of 24 congestion control schemes 5 times.  
Each test lasted for 30 seconds running 1 flow.  
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

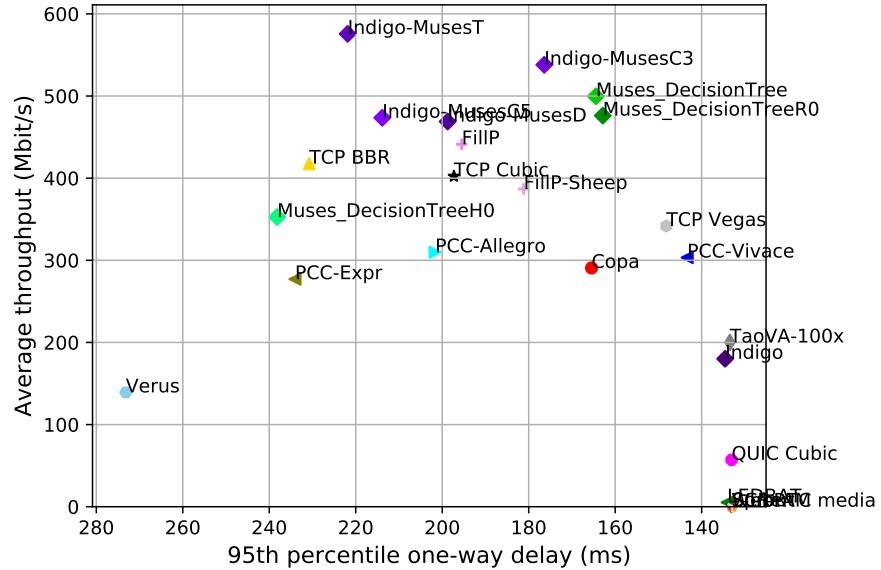
```
Linux 4.15.0-1034-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

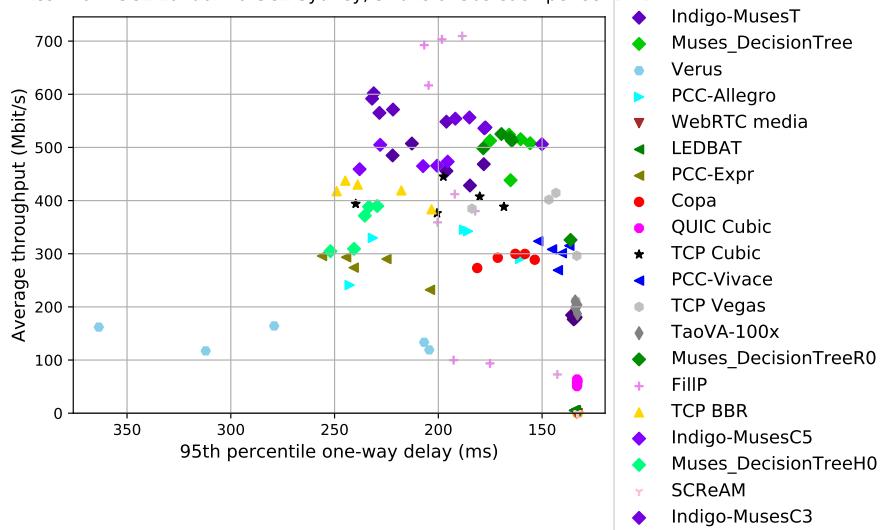
```
branch: muses @ 2076e1149a241f3edb4365d686df32342bf9561f
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 8bb93ffff2b107204a92d8b72449fc0c55e15f00
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 GCE London to GCE Sydney, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



test from GCE London to GCE Sydney, 5 runs of 30s each per scheme



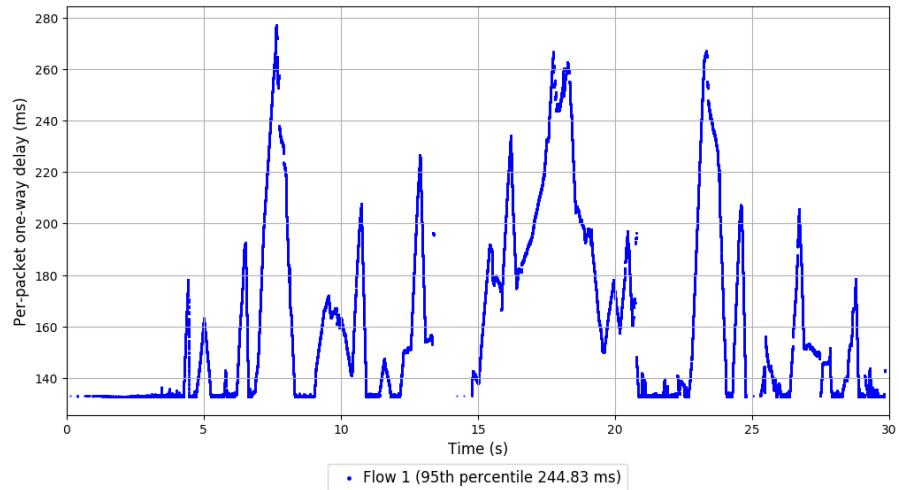
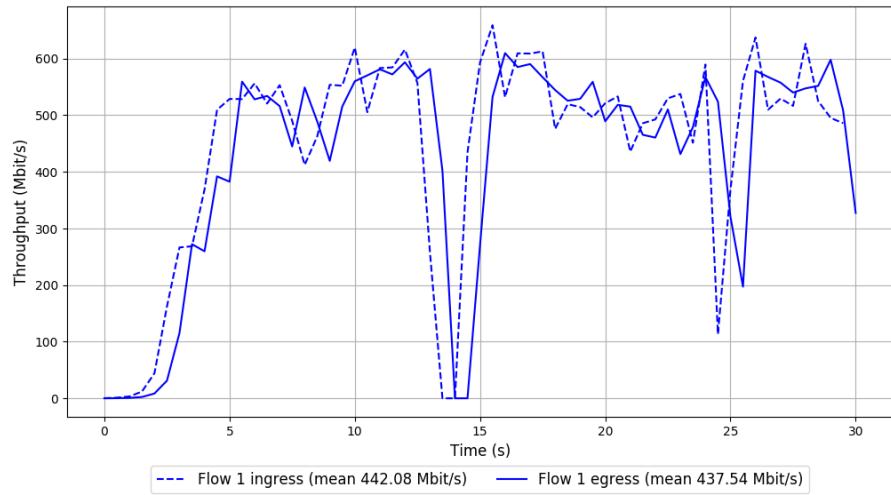
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	417.60	230.75	1.74
Copa	5	290.73	165.46	0.97
TCP Cubic	5	402.25	197.30	1.15
FillP	5	441.25	195.49	2.45
FillP-Sheep	5	386.76	181.16	1.00
Indigo	5	180.10	134.57	0.88
Indigo-MusesC3	5	538.03	176.40	1.17
Indigo-MusesC5	5	473.52	213.87	1.71
Indigo-MusesD	5	468.93	198.75	1.18
Indigo-MusesT	5	575.67	221.87	1.67
LEDBAT	5	5.24	134.10	1.78
Muses_DecisionTree	5	499.64	164.45	1.18
Muses_DecisionTreeH0	5	352.73	238.17	6.19
Muses_DecisionTreeR0	5	476.15	162.86	1.28
PCC-Allegro	5	309.74	201.63	2.53
PCC-Expr	5	277.03	234.05	4.59
QUIC Cubic	5	57.09	133.08	1.07
SCReAM	5	0.16	132.95	0.86
Sprout	5	0.65	132.98	0.98
TaoVA-100x	5	199.91	133.48	1.08
TCP Vegas	5	341.77	148.18	0.78
Verus	5	139.18	273.20	9.91
PCC-Vivace	5	303.39	143.36	1.11
WebRTC media	4	0.05	133.13	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-07-12 09:03:43
End at: 2019-07-12 09:04:13
Local clock offset: -0.055 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-07-12 12:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 437.54 Mbit/s
95th percentile per-packet one-way delay: 244.830 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 437.54 Mbit/s
95th percentile per-packet one-way delay: 244.830 ms
Loss rate: 1.91%
```

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

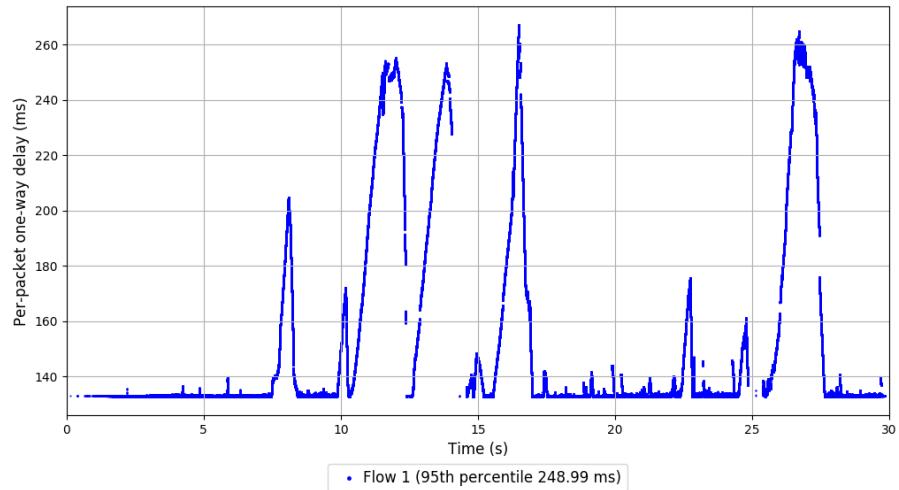
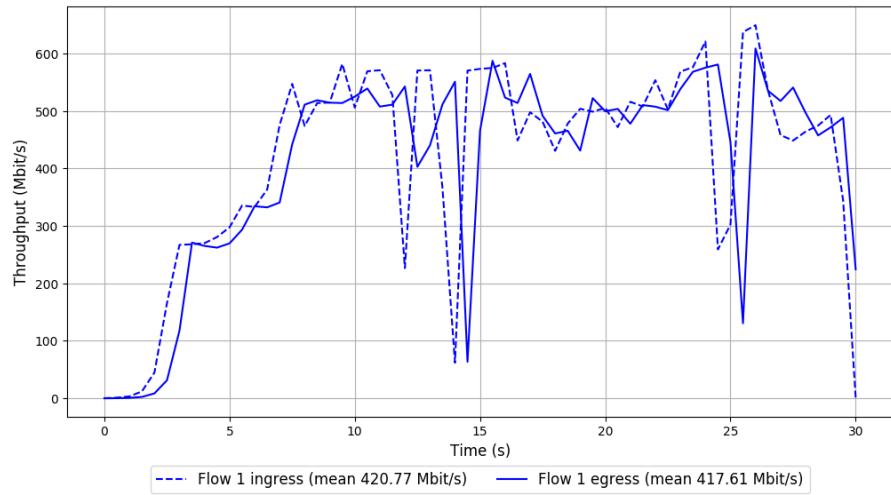


Run 2: Statistics of TCP BBR

```
Start at: 2019-07-12 09:40:02
End at: 2019-07-12 09:40:32
Local clock offset: -0.096 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2019-07-12 12:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 417.61 Mbit/s
95th percentile per-packet one-way delay: 248.989 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 417.61 Mbit/s
95th percentile per-packet one-way delay: 248.989 ms
Loss rate: 1.67%
```

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

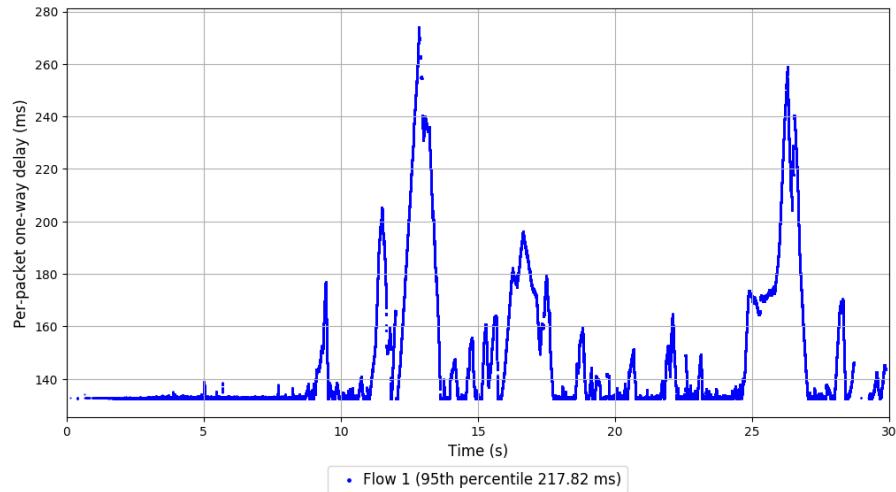
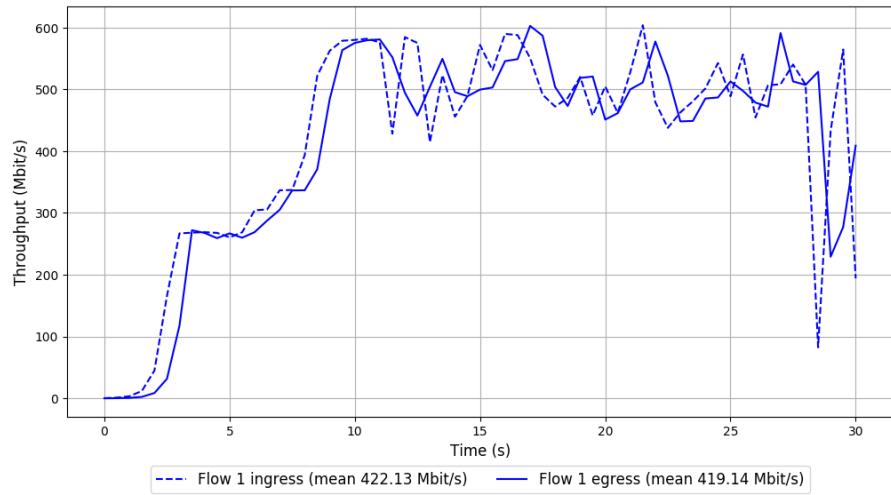


Run 3: Statistics of TCP BBR

```
Start at: 2019-07-12 10:15:56
End at: 2019-07-12 10:16:26
Local clock offset: 0.121 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2019-07-12 12:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 419.14 Mbit/s
95th percentile per-packet one-way delay: 217.818 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 419.14 Mbit/s
95th percentile per-packet one-way delay: 217.818 ms
Loss rate: 2.14%
```

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

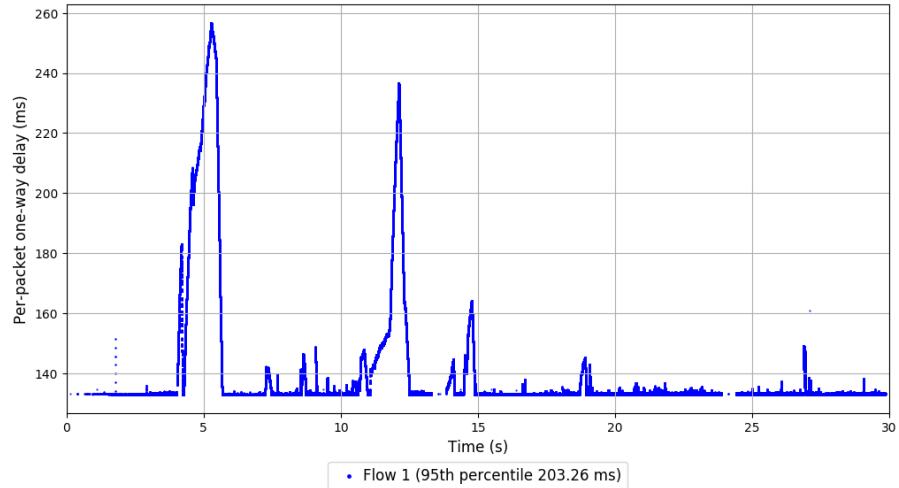
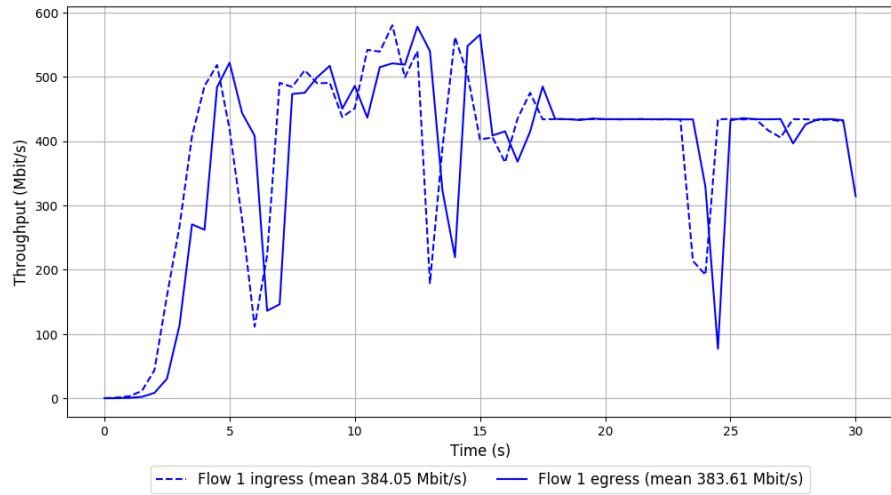


Run 4: Statistics of TCP BBR

```
Start at: 2019-07-12 10:51:37
End at: 2019-07-12 10:52:07
Local clock offset: -0.053 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-07-12 12:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 383.61 Mbit/s
95th percentile per-packet one-way delay: 203.258 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 383.61 Mbit/s
95th percentile per-packet one-way delay: 203.258 ms
Loss rate: 1.00%
```

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

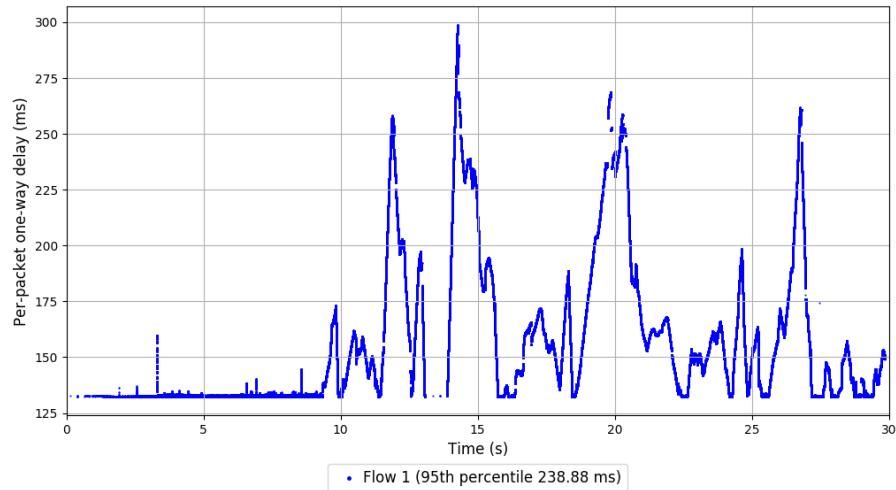
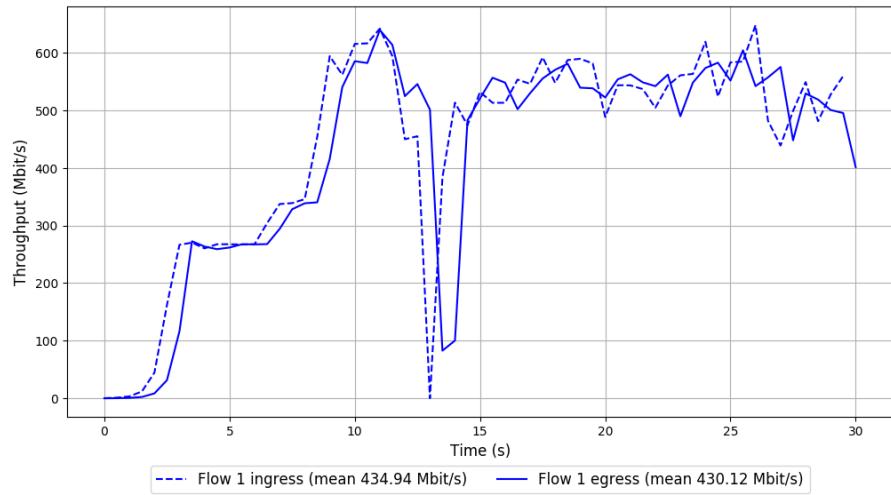


Run 5: Statistics of TCP BBR

```
Start at: 2019-07-12 11:28:06
End at: 2019-07-12 11:28:36
Local clock offset: -0.421 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-07-12 12:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 430.12 Mbit/s
95th percentile per-packet one-way delay: 238.877 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 430.12 Mbit/s
95th percentile per-packet one-way delay: 238.877 ms
Loss rate: 1.99%
```

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

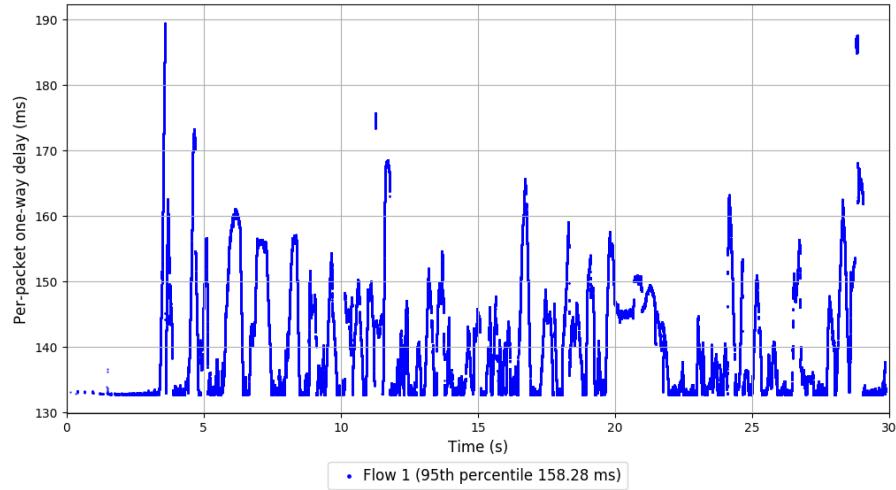
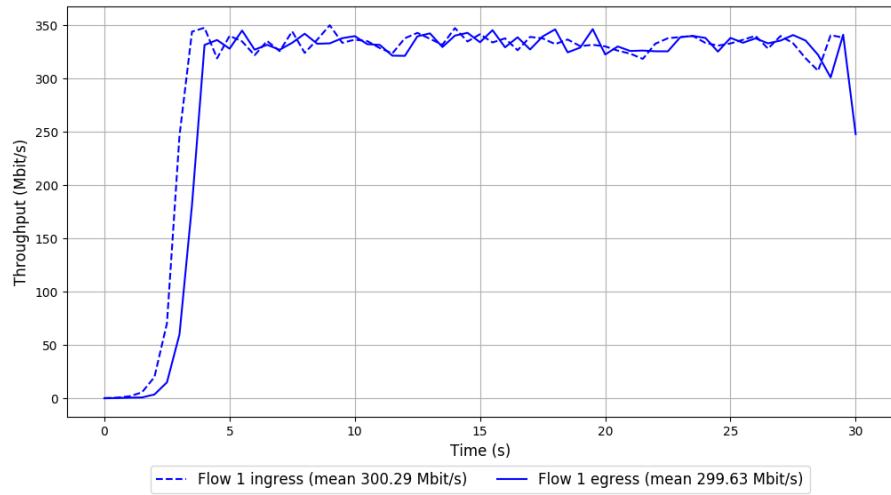


Run 1: Statistics of Copa

```
Start at: 2019-07-12 08:50:15
End at: 2019-07-12 08:50:45
Local clock offset: -0.326 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-07-12 12:09:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 299.63 Mbit/s
95th percentile per-packet one-way delay: 158.284 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 299.63 Mbit/s
95th percentile per-packet one-way delay: 158.284 ms
Loss rate: 1.10%
```

## Run 1: Report of Copa — Data Link

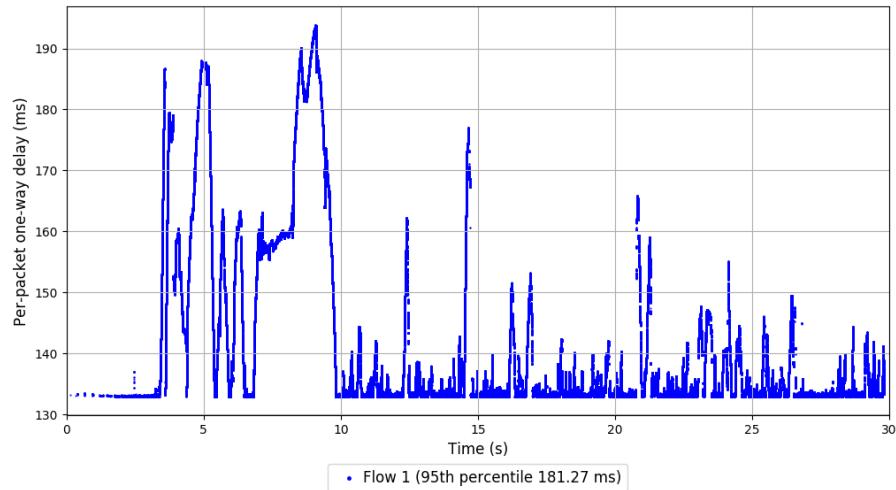
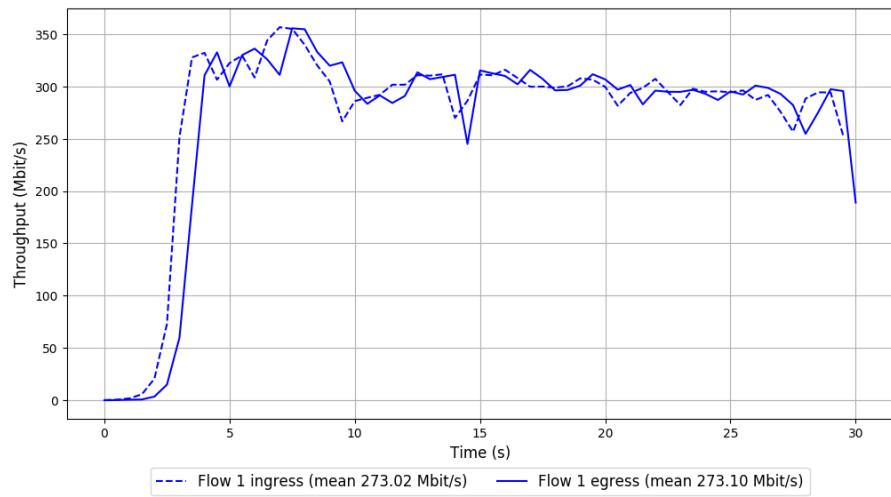


Run 2: Statistics of Copa

```
Start at: 2019-07-12 09:26:42
End at: 2019-07-12 09:27:12
Local clock offset: 0.136 ms
Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2019-07-12 12:09:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 273.10 Mbit/s
95th percentile per-packet one-way delay: 181.266 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 273.10 Mbit/s
95th percentile per-packet one-way delay: 181.266 ms
Loss rate: 0.86%
```

## Run 2: Report of Copa — Data Link

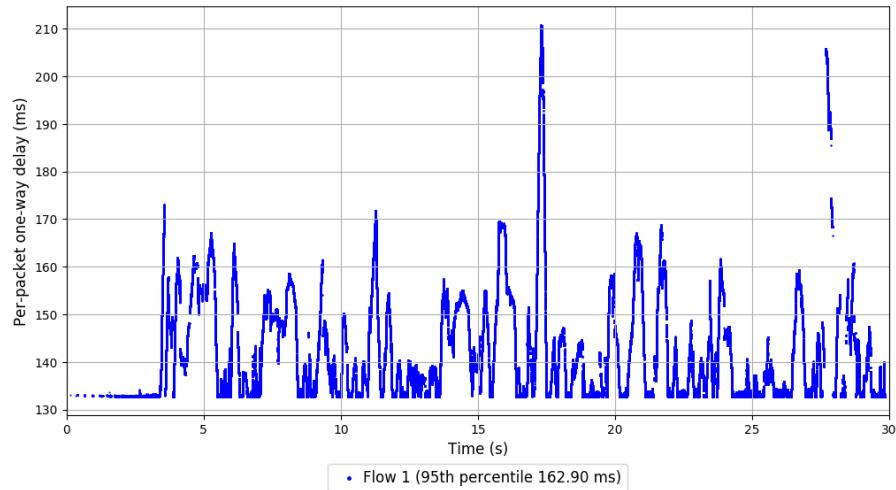
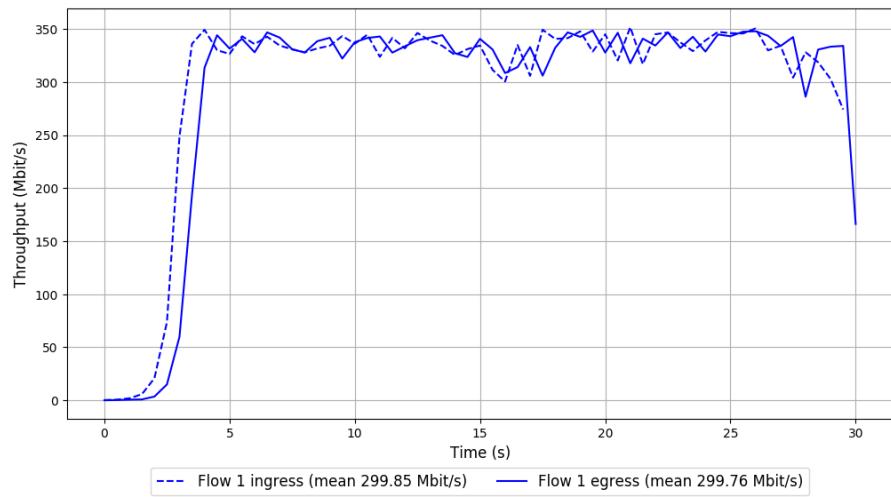


Run 3: Statistics of Copa

```
Start at: 2019-07-12 10:02:57
End at: 2019-07-12 10:03:27
Local clock offset: 0.379 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-07-12 12:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 299.76 Mbit/s
95th percentile per-packet one-way delay: 162.895 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 299.76 Mbit/s
95th percentile per-packet one-way delay: 162.895 ms
Loss rate: 0.91%
```

### Run 3: Report of Copa — Data Link

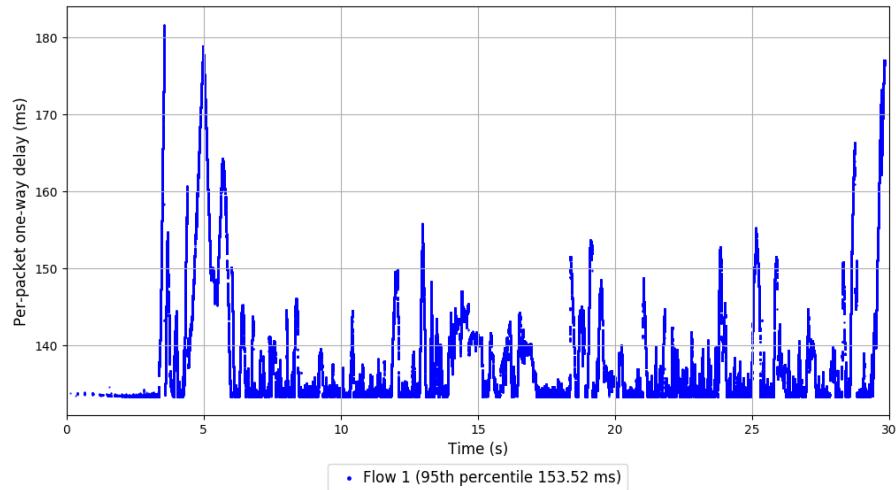
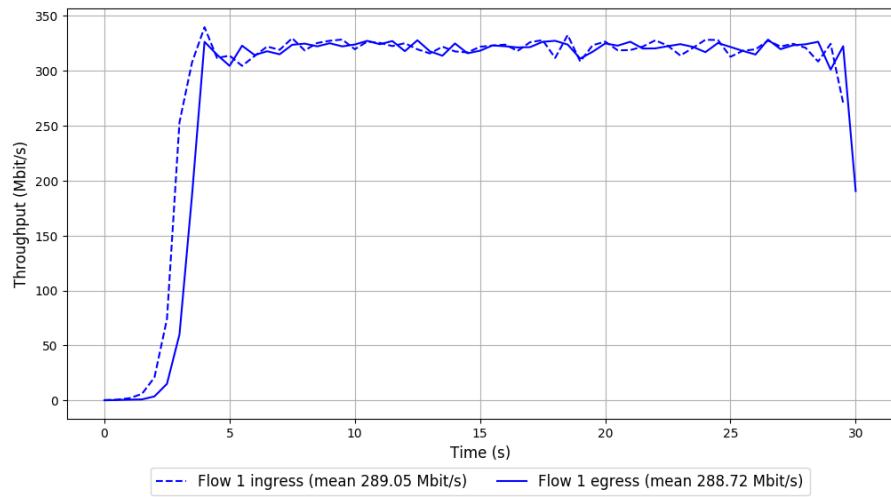


Run 4: Statistics of Copa

```
Start at: 2019-07-12 10:38:10
End at: 2019-07-12 10:38:40
Local clock offset: 0.349 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-07-12 12:16:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 288.72 Mbit/s
95th percentile per-packet one-way delay: 153.524 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 288.72 Mbit/s
95th percentile per-packet one-way delay: 153.524 ms
Loss rate: 1.00%
```

#### Run 4: Report of Copa — Data Link

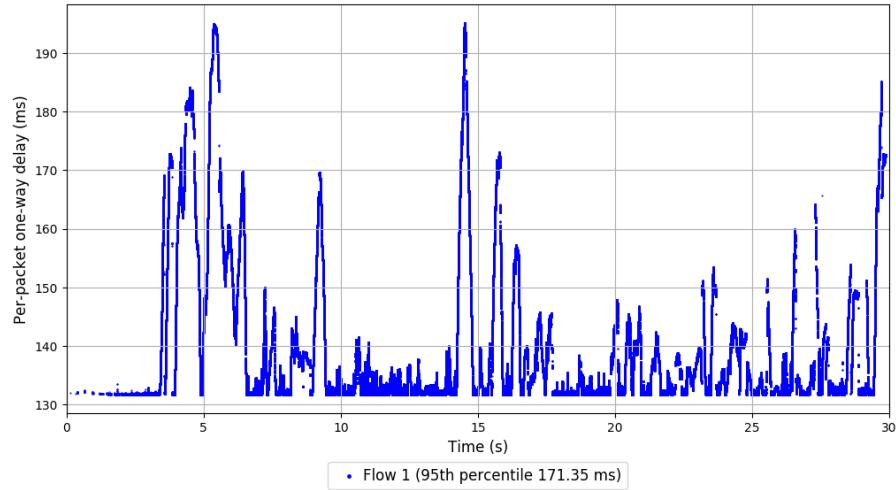
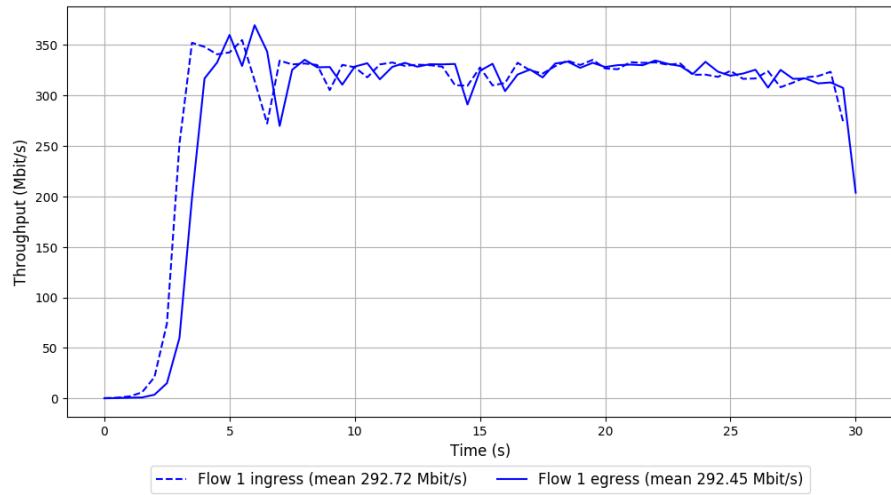


Run 5: Statistics of Copa

```
Start at: 2019-07-12 11:14:33
End at: 2019-07-12 11:15:03
Local clock offset: -0.185 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-07-12 12:17:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.45 Mbit/s
95th percentile per-packet one-way delay: 171.347 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 292.45 Mbit/s
95th percentile per-packet one-way delay: 171.347 ms
Loss rate: 0.98%
```

### Run 5: Report of Copa — Data Link

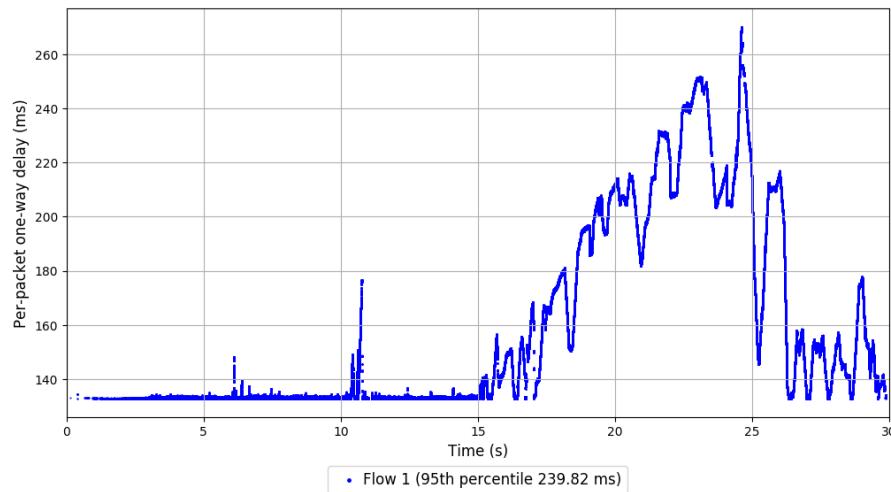
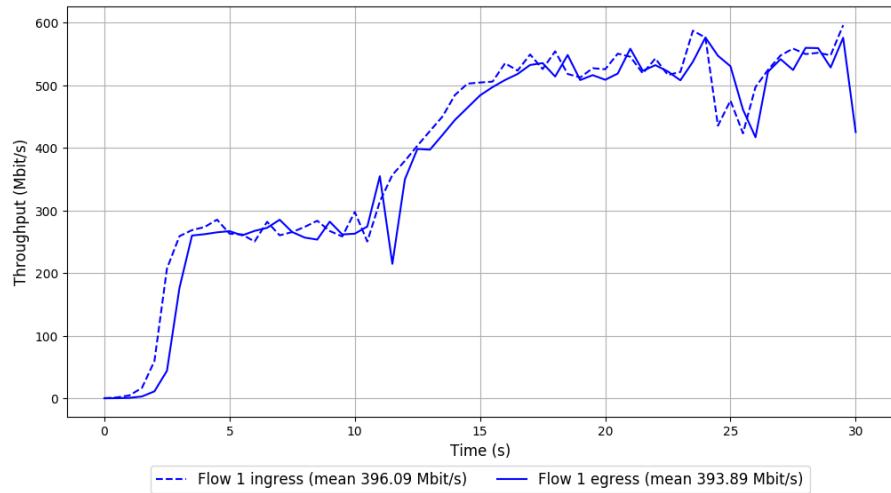


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-07-12 08:53:12
End at: 2019-07-12 08:53:42
Local clock offset: -0.082 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-07-12 12:17:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 393.89 Mbit/s
95th percentile per-packet one-way delay: 239.819 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 393.89 Mbit/s
95th percentile per-packet one-way delay: 239.819 ms
Loss rate: 1.44%
```

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

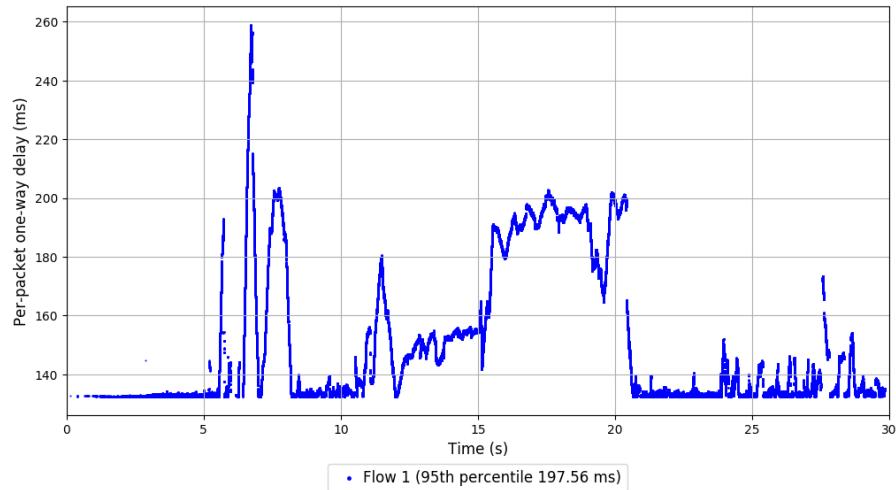
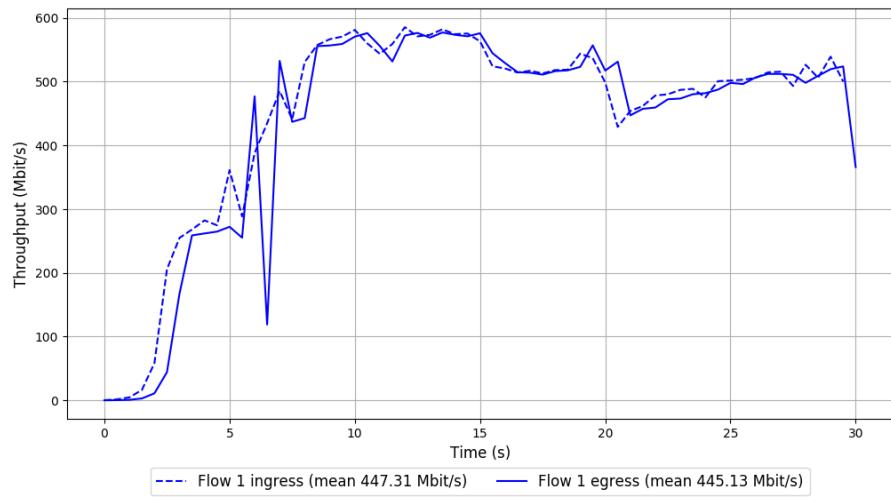


Run 2: Statistics of TCP Cubic

```
Start at: 2019-07-12 09:29:36
End at: 2019-07-12 09:30:06
Local clock offset: -0.072 ms
Remote clock offset: 0.363 ms

# Below is generated by plot.py at 2019-07-12 12:17:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 445.13 Mbit/s
95th percentile per-packet one-way delay: 197.560 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 445.13 Mbit/s
95th percentile per-packet one-way delay: 197.560 ms
Loss rate: 1.37%
```

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

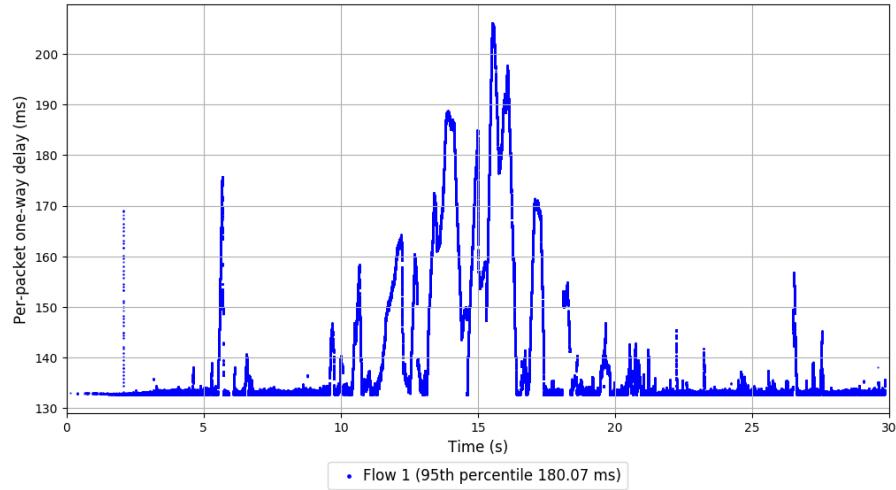
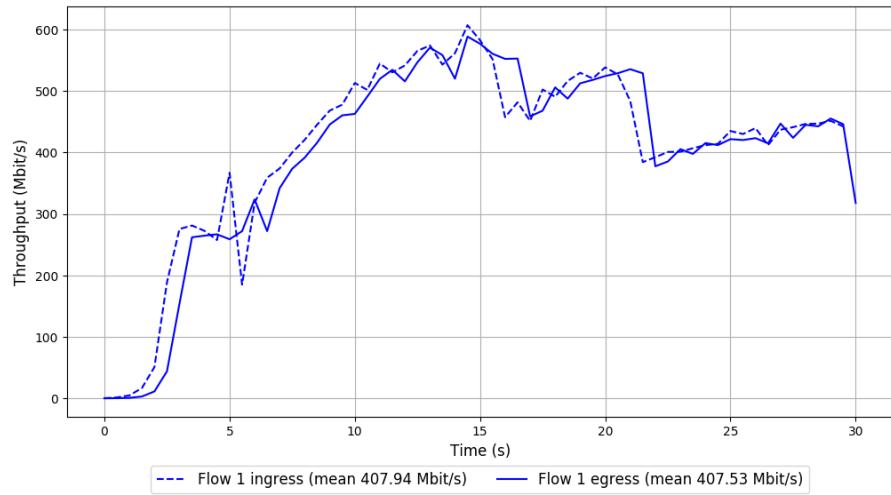


Run 3: Statistics of TCP Cubic

```
Start at: 2019-07-12 10:05:54
End at: 2019-07-12 10:06:24
Local clock offset: 0.37 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-07-12 12:17:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 407.53 Mbit/s
95th percentile per-packet one-way delay: 180.070 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 407.53 Mbit/s
95th percentile per-packet one-way delay: 180.070 ms
Loss rate: 0.99%
```

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

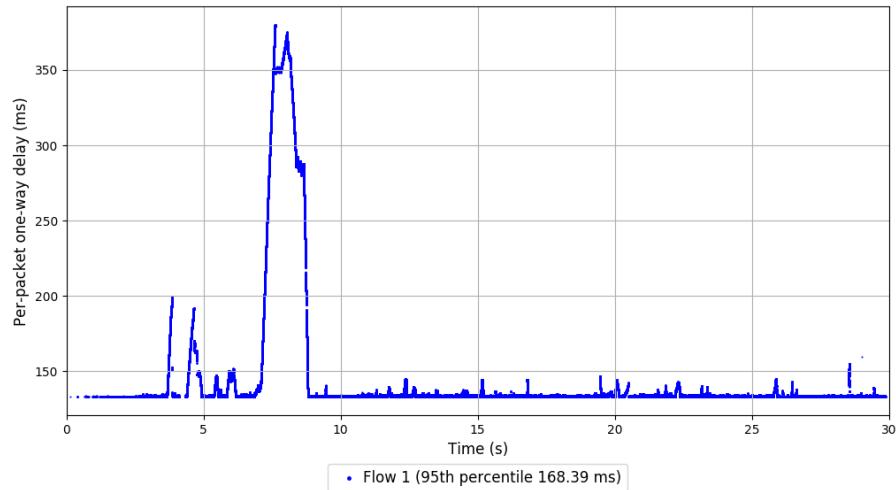
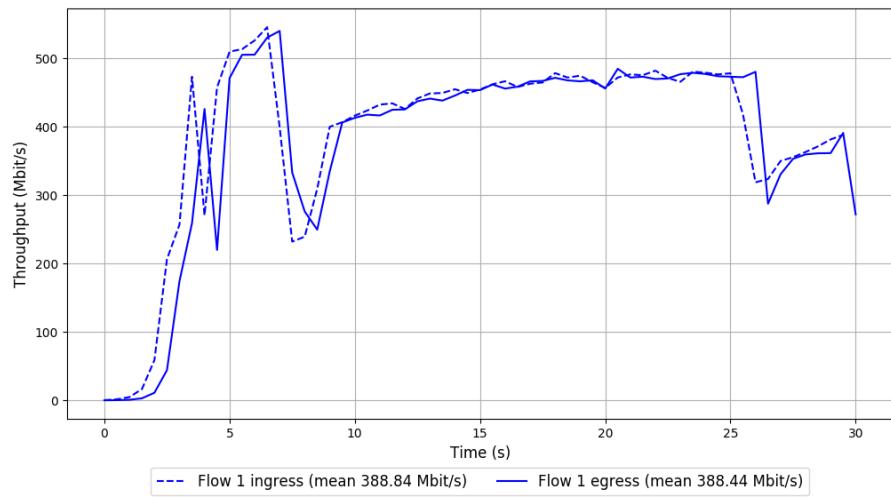


Run 4: Statistics of TCP Cubic

```
Start at: 2019-07-12 10:41:07
End at: 2019-07-12 10:41:37
Local clock offset: 0.173 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-07-12 12:17:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 388.44 Mbit/s
95th percentile per-packet one-way delay: 168.387 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 388.44 Mbit/s
95th percentile per-packet one-way delay: 168.387 ms
Loss rate: 0.99%
```

Run 4: Report of TCP Cubic — Data Link

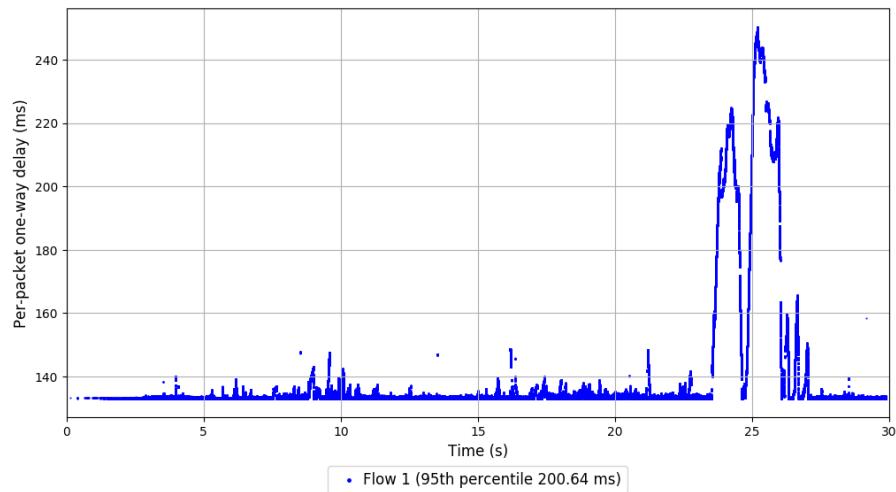
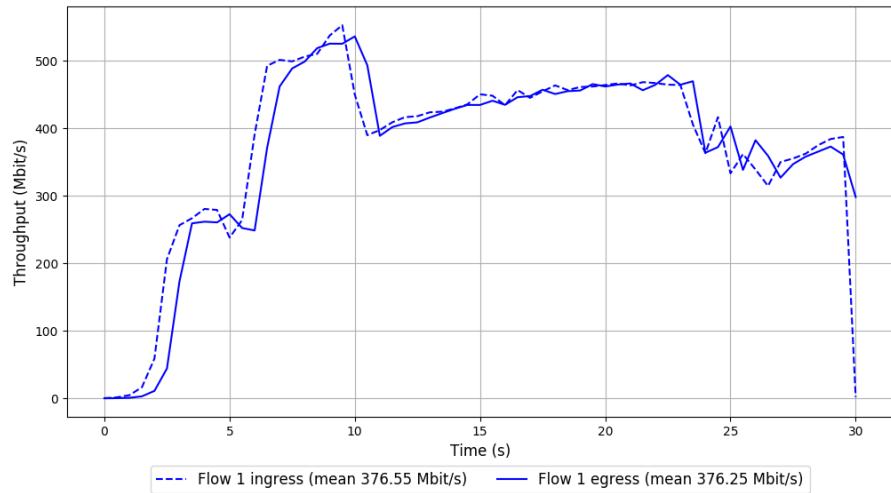


Run 5: Statistics of TCP Cubic

```
Start at: 2019-07-12 11:17:30
End at: 2019-07-12 11:18:00
Local clock offset: 0.054 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-07-12 12:17:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 376.25 Mbit/s
95th percentile per-packet one-way delay: 200.642 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 376.25 Mbit/s
95th percentile per-packet one-way delay: 200.642 ms
Loss rate: 0.97%
```

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

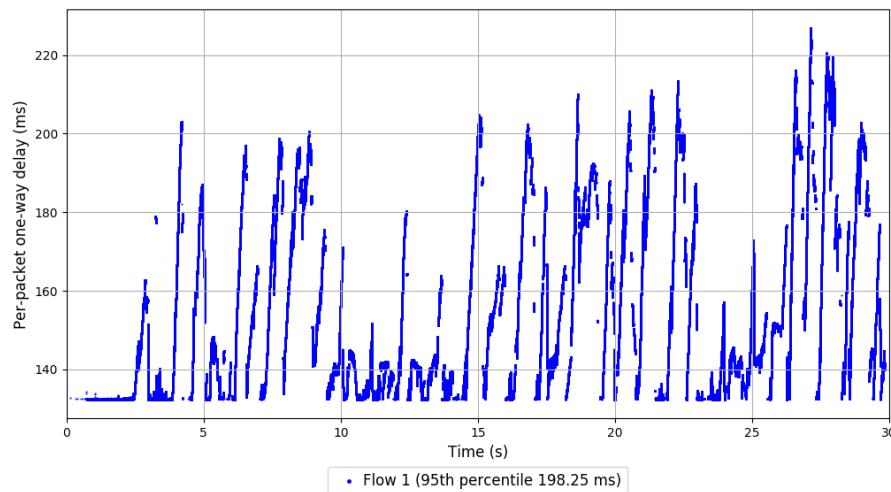
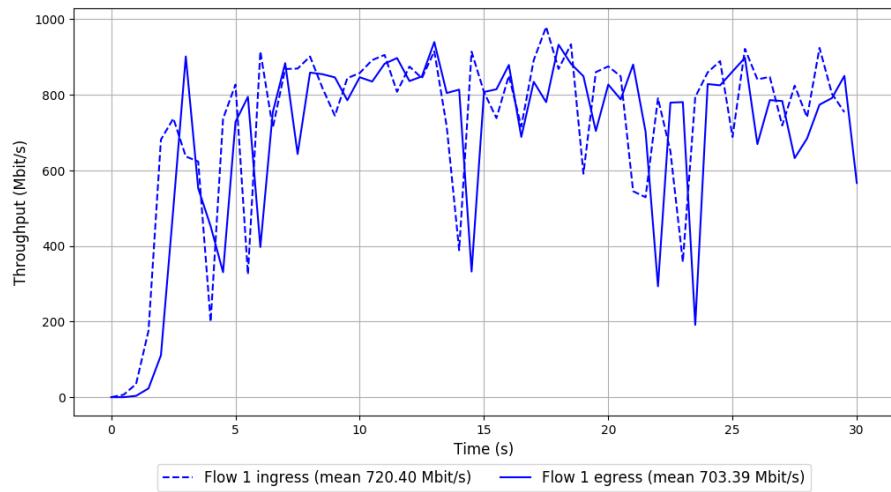


```
Run 1: Statistics of FillP

Start at: 2019-07-12 09:23:23
End at: 2019-07-12 09:23:53
Local clock offset: -0.387 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-07-12 12:26:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 703.39 Mbit/s
95th percentile per-packet one-way delay: 198.252 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 703.39 Mbit/s
95th percentile per-packet one-way delay: 198.252 ms
Loss rate: 3.22%
```

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

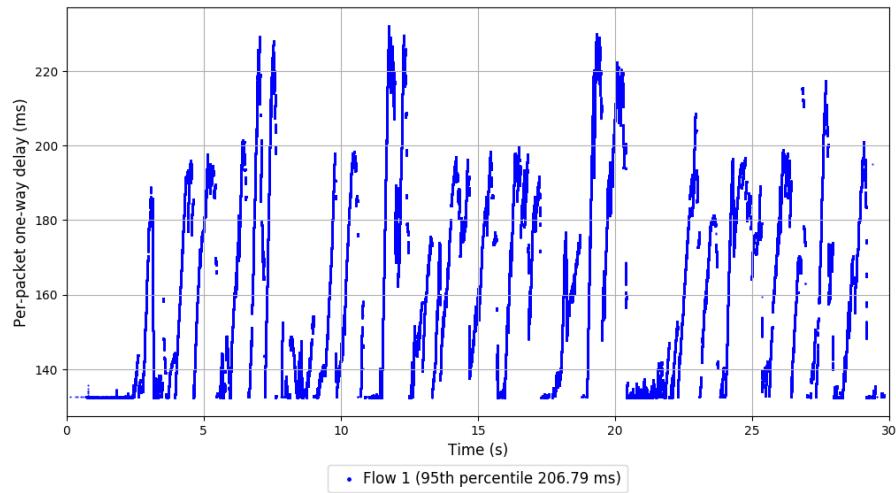
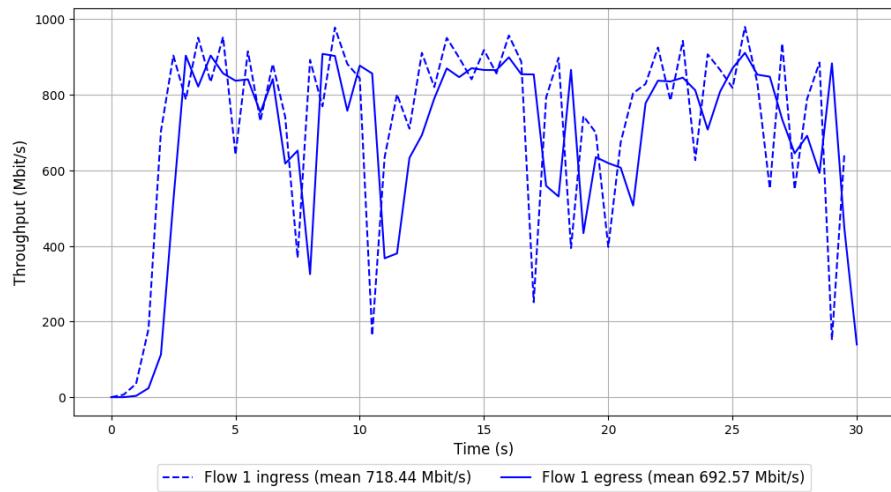


Run 2: Statistics of FillP

```
Start at: 2019-07-12 09:59:36
End at: 2019-07-12 10:00:06
Local clock offset: -0.059 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-07-12 12:30:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 692.57 Mbit/s
95th percentile per-packet one-way delay: 206.788 ms
Loss rate: 4.46%
-- Flow 1:
Average throughput: 692.57 Mbit/s
95th percentile per-packet one-way delay: 206.788 ms
Loss rate: 4.46%
```

## Run 2: Report of FillP — Data Link

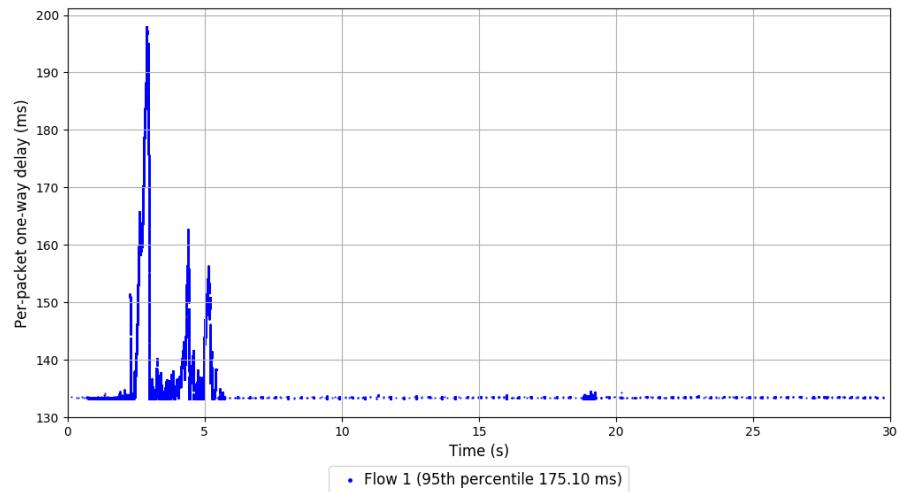
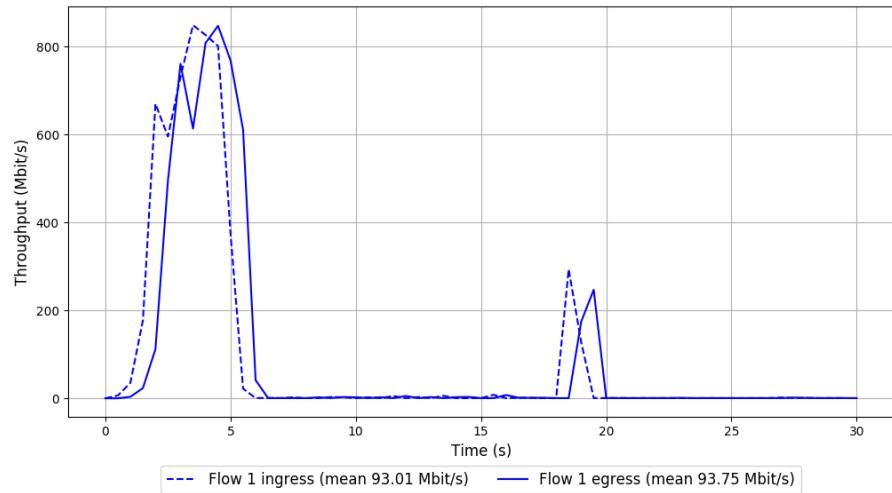


Run 3: Statistics of FillP

```
Start at: 2019-07-12 10:35:20
End at: 2019-07-12 10:35:50
Local clock offset: 0.286 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-07-12 12:30:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 175.101 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 175.101 ms
Loss rate: 0.06%
```

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

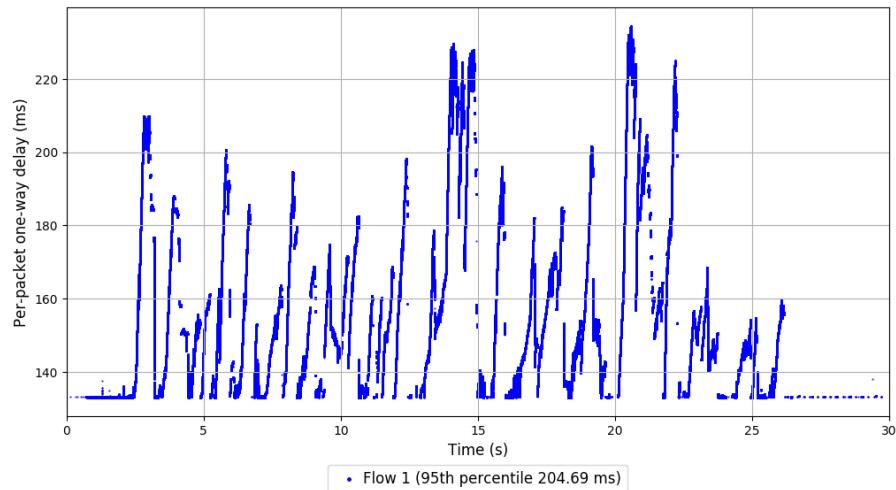
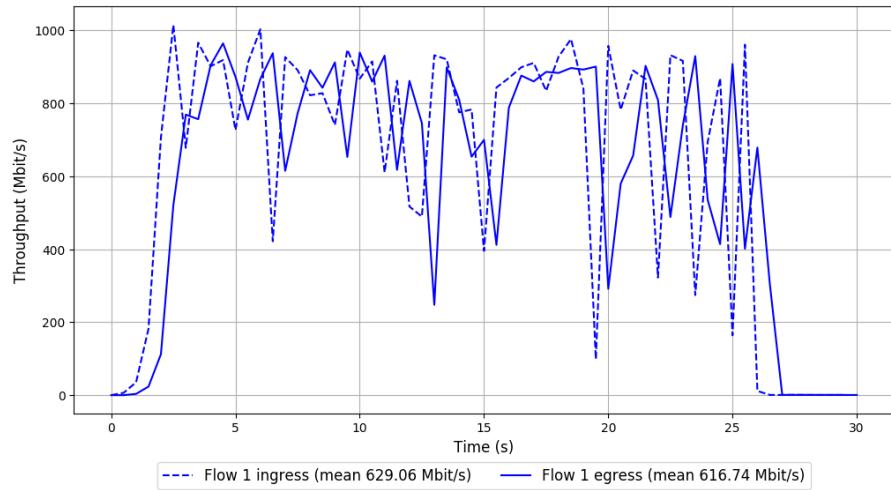


```
Run 4: Statistics of FillP
```

```
Start at: 2019-07-12 11:11:17
End at: 2019-07-12 11:11:47
Local clock offset: 0.241 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-07-12 12:30:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 616.74 Mbit/s
95th percentile per-packet one-way delay: 204.692 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 616.74 Mbit/s
95th percentile per-packet one-way delay: 204.692 ms
Loss rate: 2.83%
```

#### Run 4: Report of FillP — Data Link

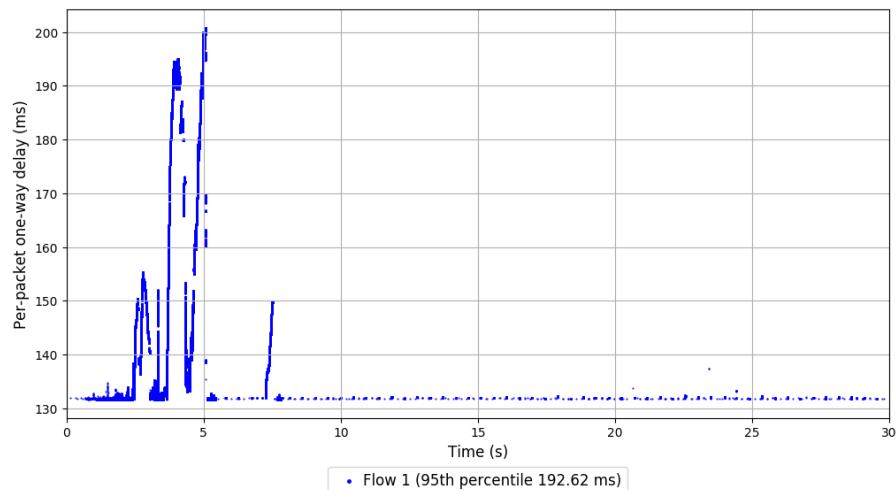
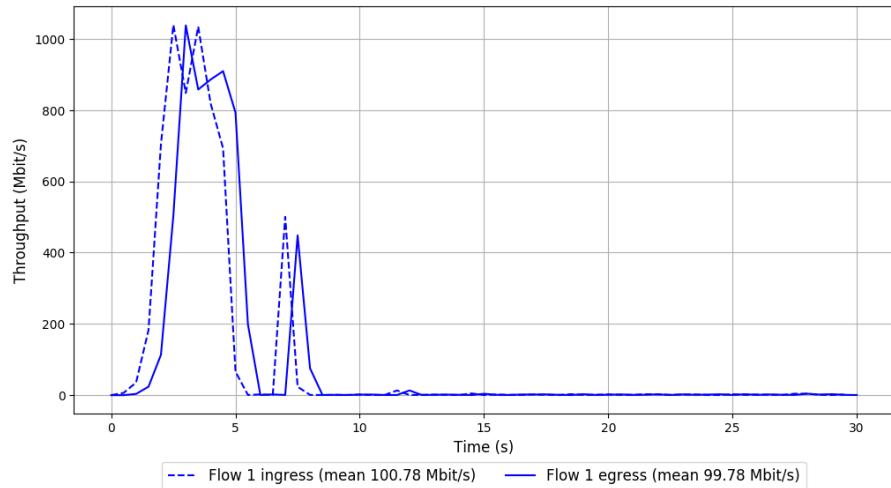


Run 5: Statistics of FillP

```
Start at: 2019-07-12 11:47:42
End at: 2019-07-12 11:48:12
Local clock offset: -0.28 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-07-12 12:30:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 99.78 Mbit/s
95th percentile per-packet one-way delay: 192.625 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 99.78 Mbit/s
95th percentile per-packet one-way delay: 192.625 ms
Loss rate: 1.70%
```

## Run 5: Report of FillP — Data Link

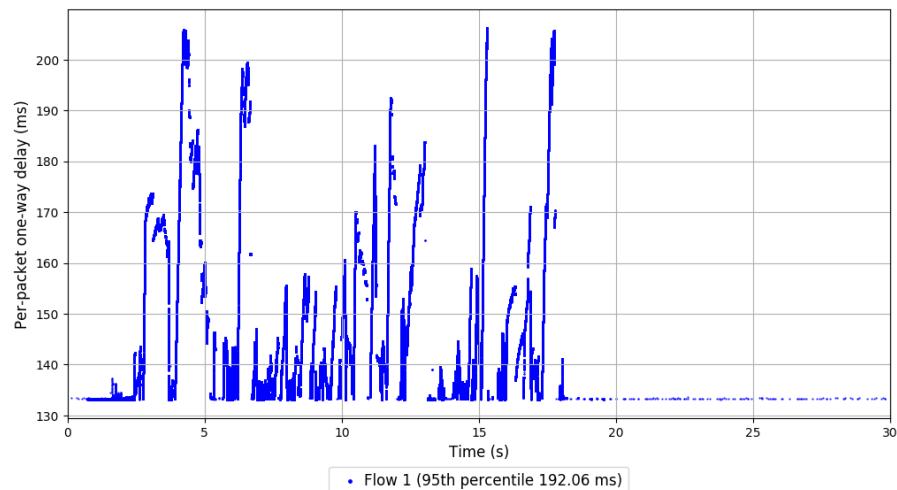
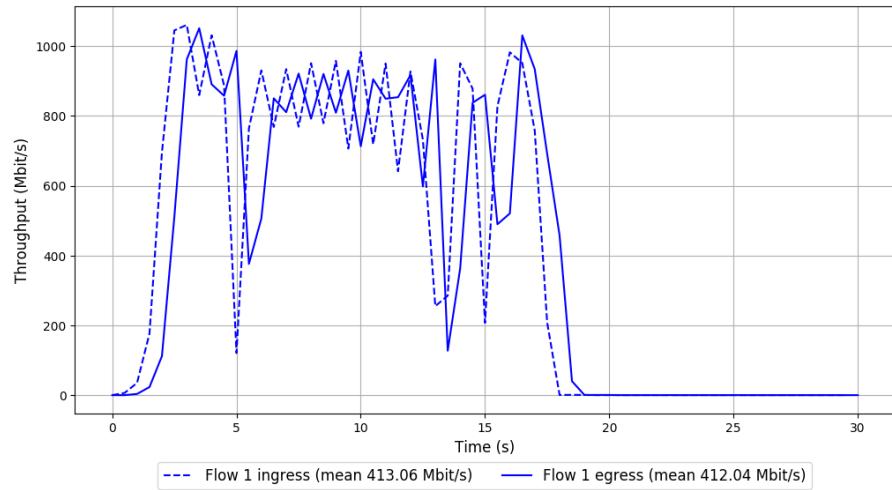


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-07-12 09:02:13
End at: 2019-07-12 09:02:43
Local clock offset: 0.283 ms
Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-07-12 12:30:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 412.04 Mbit/s
95th percentile per-packet one-way delay: 192.058 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 412.04 Mbit/s
95th percentile per-packet one-way delay: 192.058 ms
Loss rate: 1.11%
```

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

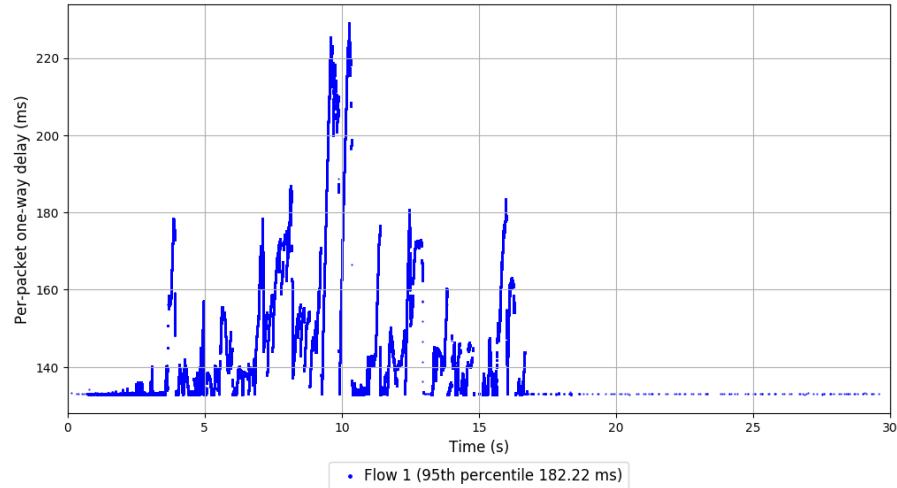
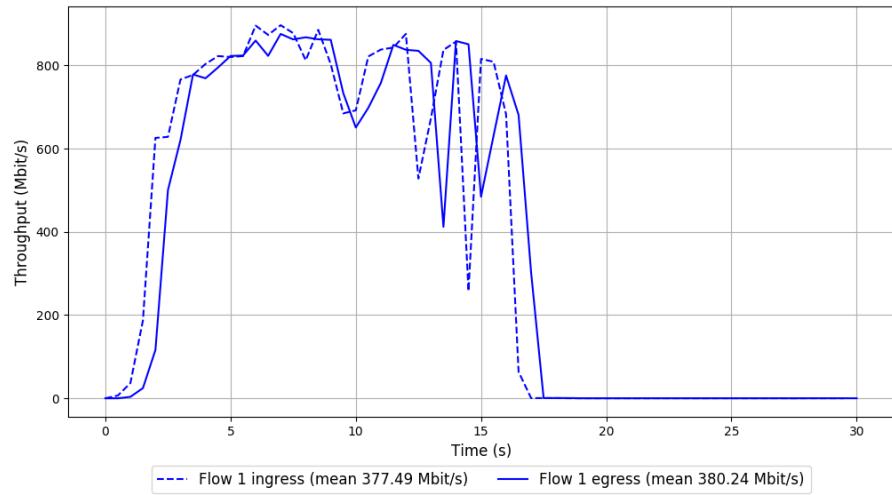


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-07-12 09:38:33
End at: 2019-07-12 09:39:03
Local clock offset: -0.041 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2019-07-12 12:30:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.24 Mbit/s
95th percentile per-packet one-way delay: 182.224 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 380.24 Mbit/s
95th percentile per-packet one-way delay: 182.224 ms
Loss rate: 0.83%
```

## Run 2: Report of FillP-Sheep — Data Link

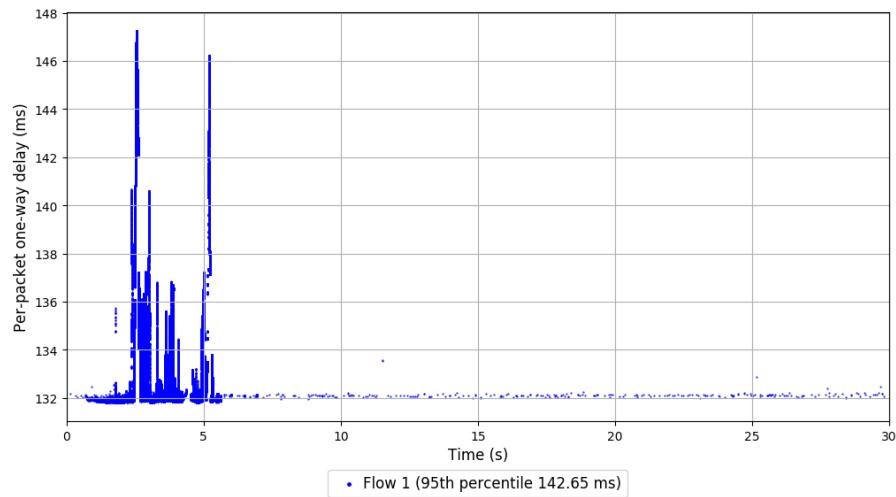
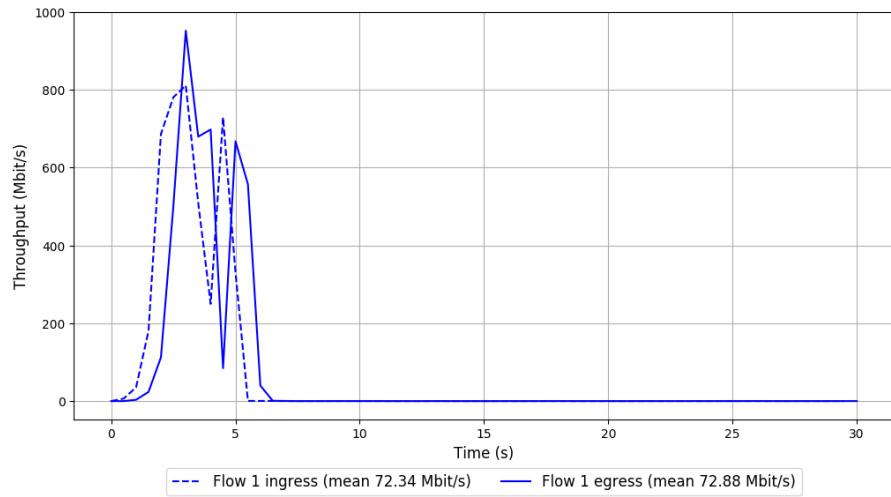


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-07-12 10:14:41
End at: 2019-07-12 10:15:11
Local clock offset: -0.497 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2019-07-12 12:30:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.88 Mbit/s
95th percentile per-packet one-way delay: 142.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.88 Mbit/s
95th percentile per-packet one-way delay: 142.650 ms
Loss rate: 0.00%
```

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

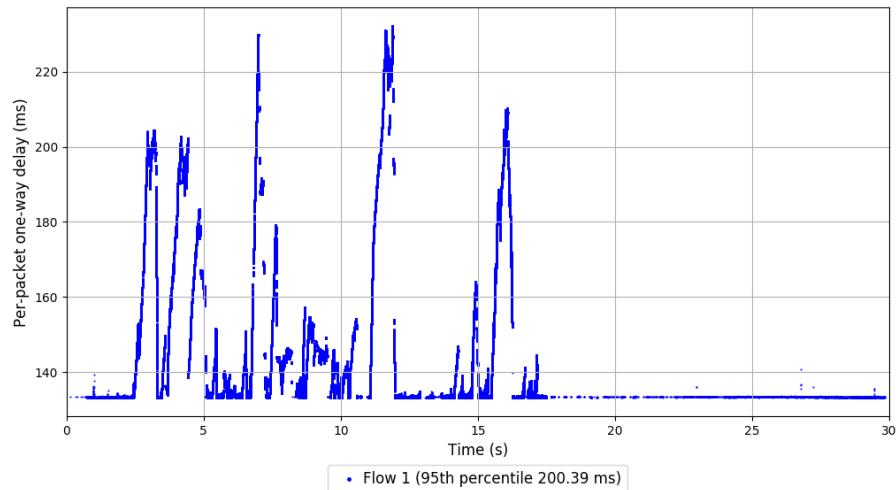
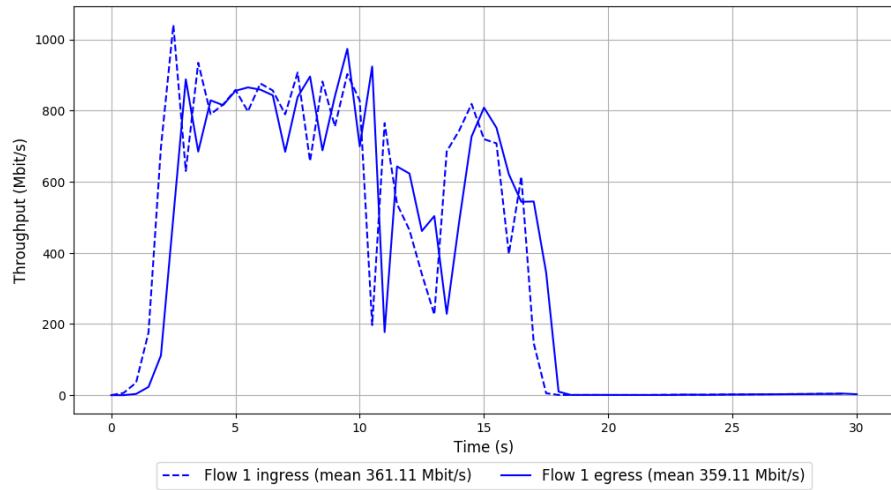


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-07-12 10:50:10
End at: 2019-07-12 10:50:40
Local clock offset: 0.297 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-07-12 12:30:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.11 Mbit/s
95th percentile per-packet one-way delay: 200.388 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 359.11 Mbit/s
95th percentile per-packet one-way delay: 200.388 ms
Loss rate: 1.43%
```

Run 4: Report of FillP-Sheep — Data Link

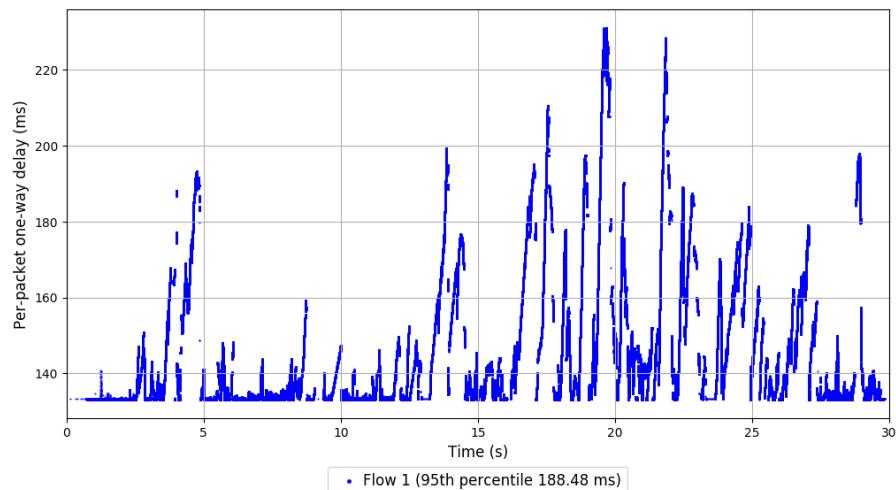
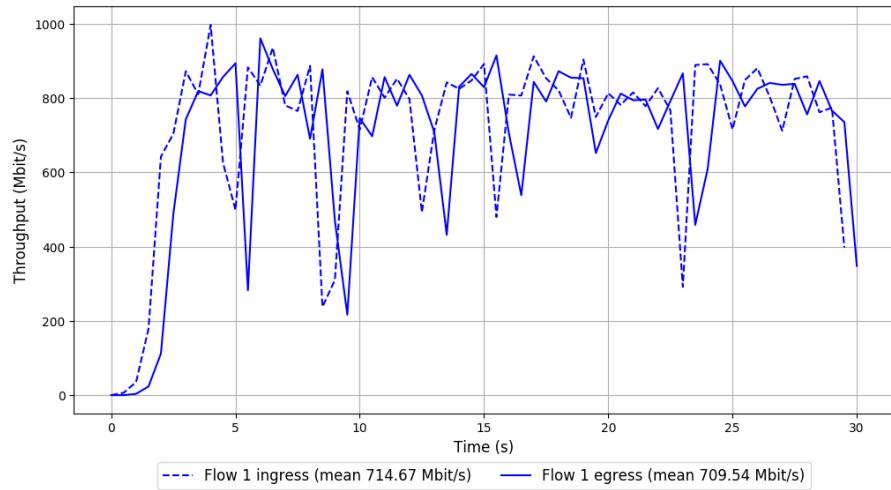


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-07-12 11:26:22
End at: 2019-07-12 11:26:52
Local clock offset: 0.376 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-07-12 12:34:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 709.54 Mbit/s
95th percentile per-packet one-way delay: 188.482 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 709.54 Mbit/s
95th percentile per-packet one-way delay: 188.482 ms
Loss rate: 1.64%
```

### Run 5: Report of FillP-Sheep — Data Link

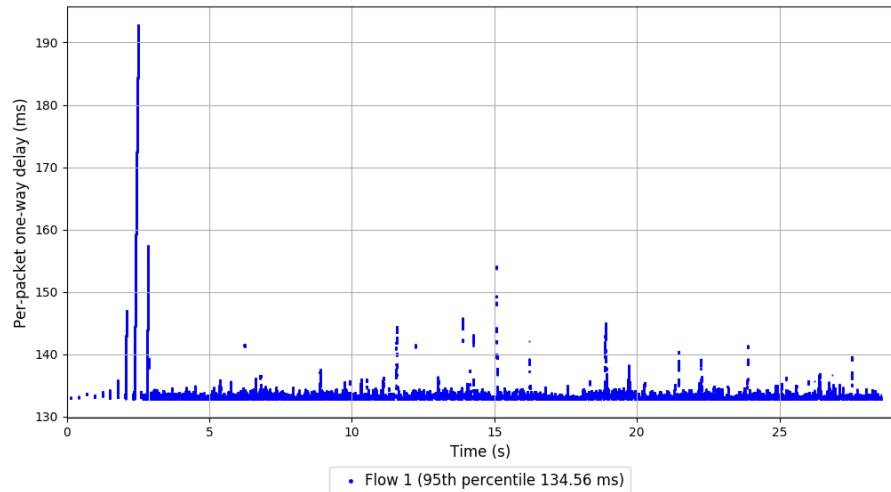
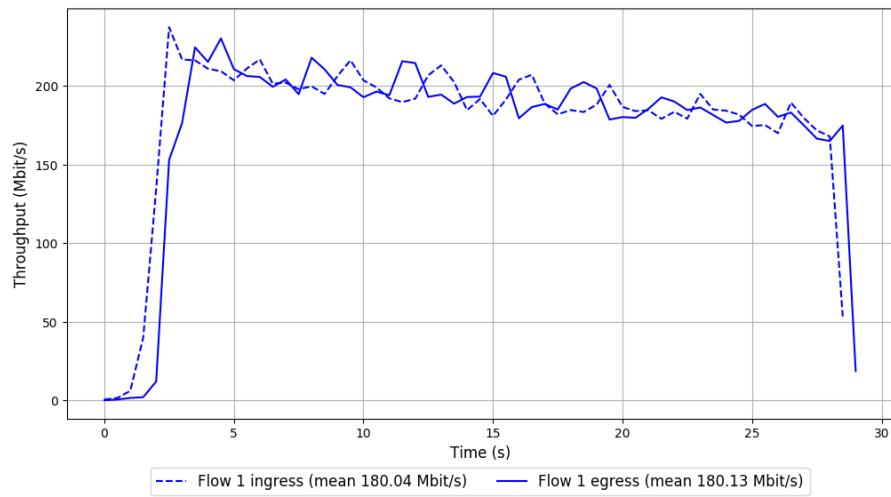


Run 1: Statistics of Indigo

```
Start at: 2019-07-12 08:54:46
End at: 2019-07-12 08:55:16
Local clock offset: -0.045 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-07-12 12:34:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.13 Mbit/s
95th percentile per-packet one-way delay: 134.557 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 180.13 Mbit/s
95th percentile per-packet one-way delay: 134.557 ms
Loss rate: 0.87%
```

Run 1: Report of Indigo — Data Link

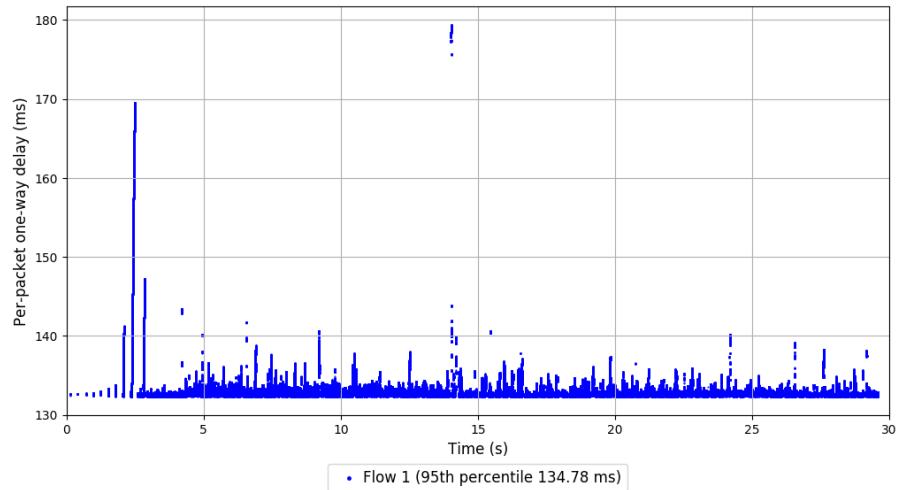
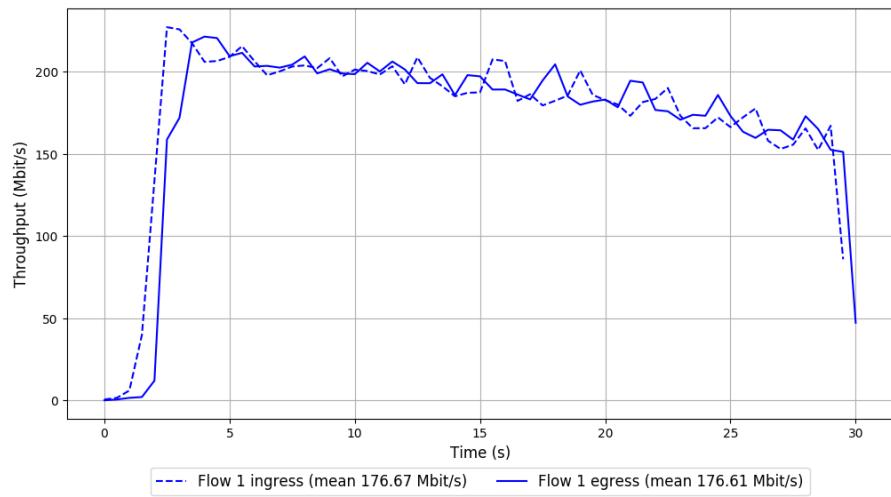


Run 2: Statistics of Indigo

```
Start at: 2019-07-12 09:31:12
End at: 2019-07-12 09:31:42
Local clock offset: -0.484 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-07-12 12:34:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 176.61 Mbit/s
95th percentile per-packet one-way delay: 134.782 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 176.61 Mbit/s
95th percentile per-packet one-way delay: 134.782 ms
Loss rate: 0.94%
```

Run 2: Report of Indigo — Data Link

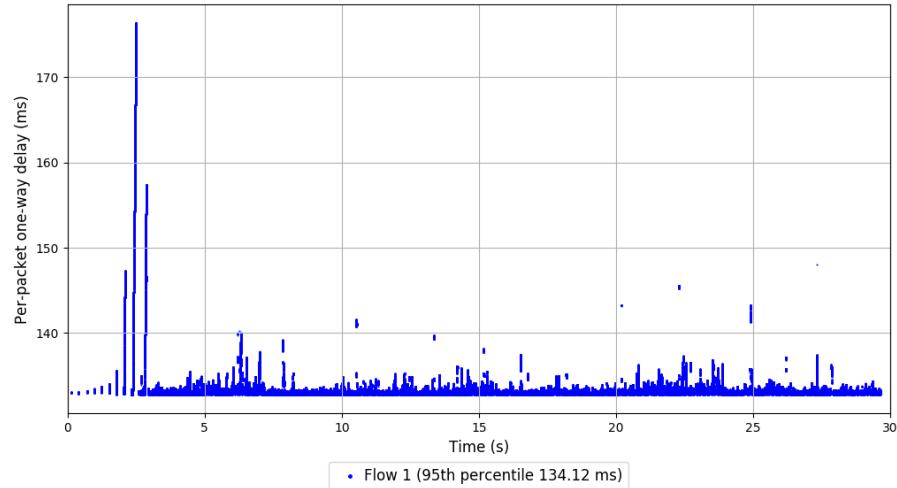
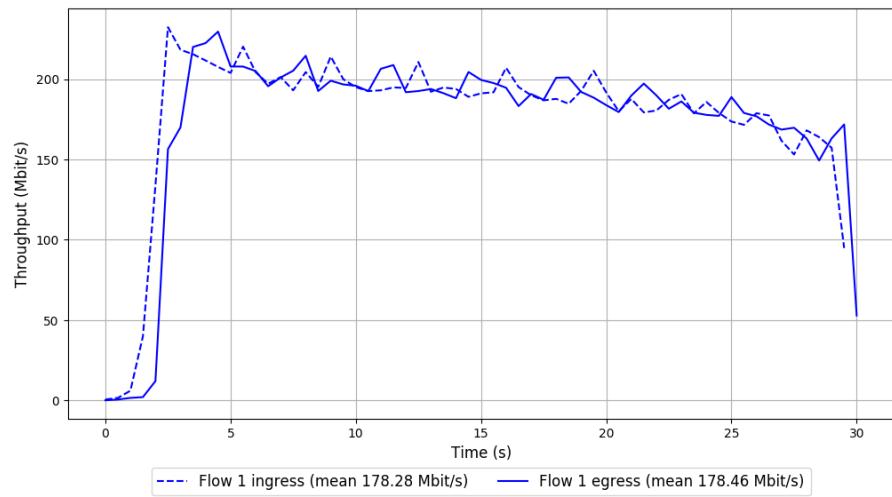


Run 3: Statistics of Indigo

```
Start at: 2019-07-12 10:07:28
End at: 2019-07-12 10:07:58
Local clock offset: -0.075 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-07-12 12:34:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.46 Mbit/s
95th percentile per-packet one-way delay: 134.119 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 178.46 Mbit/s
95th percentile per-packet one-way delay: 134.119 ms
Loss rate: 0.81%
```

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

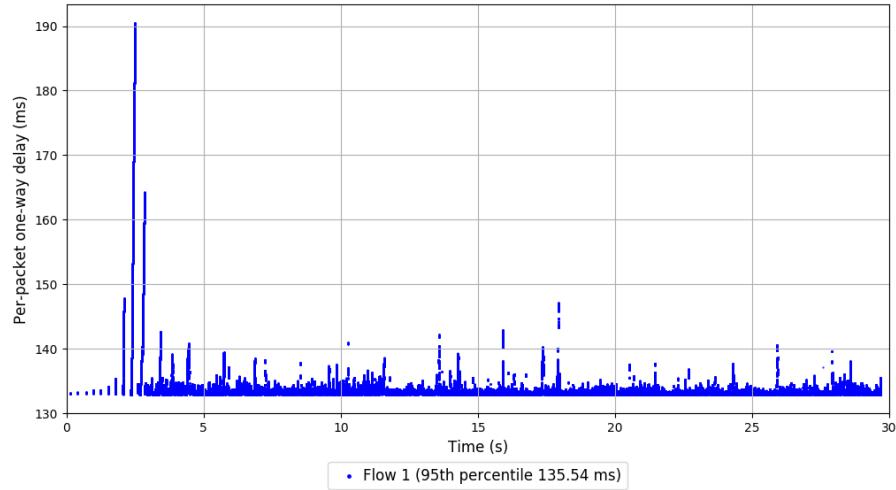
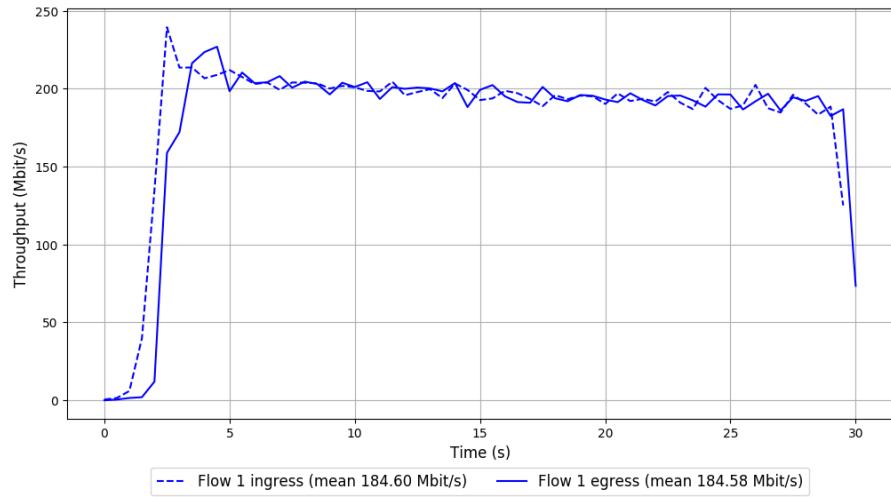


Run 4: Statistics of Indigo

```
Start at: 2019-07-12 10:42:40
End at: 2019-07-12 10:43:10
Local clock offset: -0.058 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-07-12 12:34:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.58 Mbit/s
95th percentile per-packet one-way delay: 135.544 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 184.58 Mbit/s
95th percentile per-packet one-way delay: 135.544 ms
Loss rate: 0.90%
```

## Run 4: Report of Indigo — Data Link

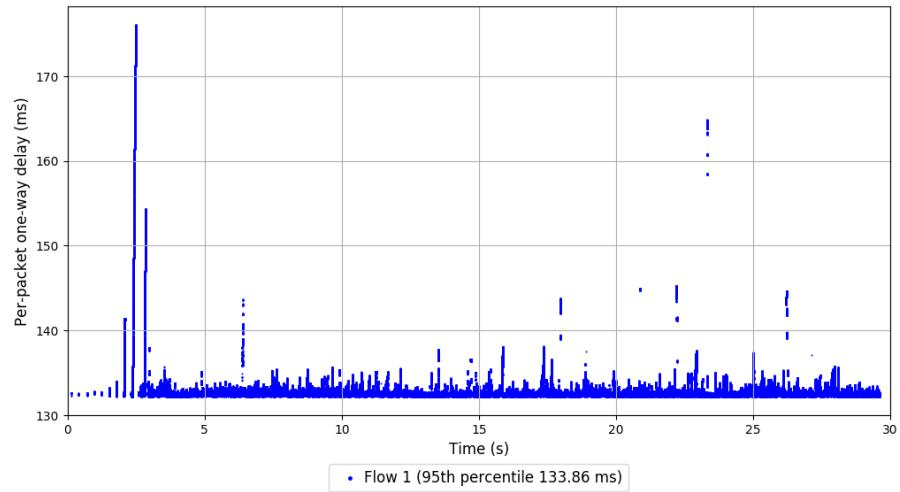
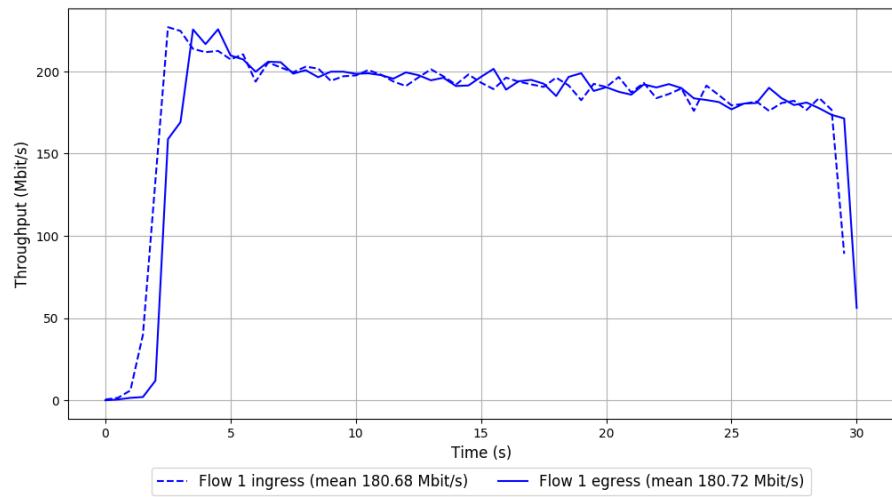


Run 5: Statistics of Indigo

```
Start at: 2019-07-12 11:19:03
End at: 2019-07-12 11:19:33
Local clock offset: -0.269 ms
Remote clock offset: 0.292 ms

# Below is generated by plot.py at 2019-07-12 12:34:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.72 Mbit/s
95th percentile per-packet one-way delay: 133.860 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 180.72 Mbit/s
95th percentile per-packet one-way delay: 133.860 ms
Loss rate: 0.88%
```

Run 5: Report of Indigo — Data Link

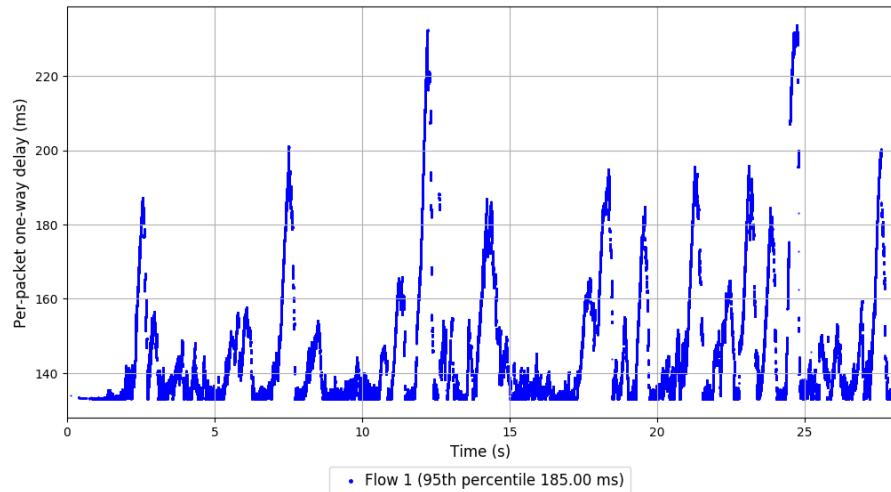
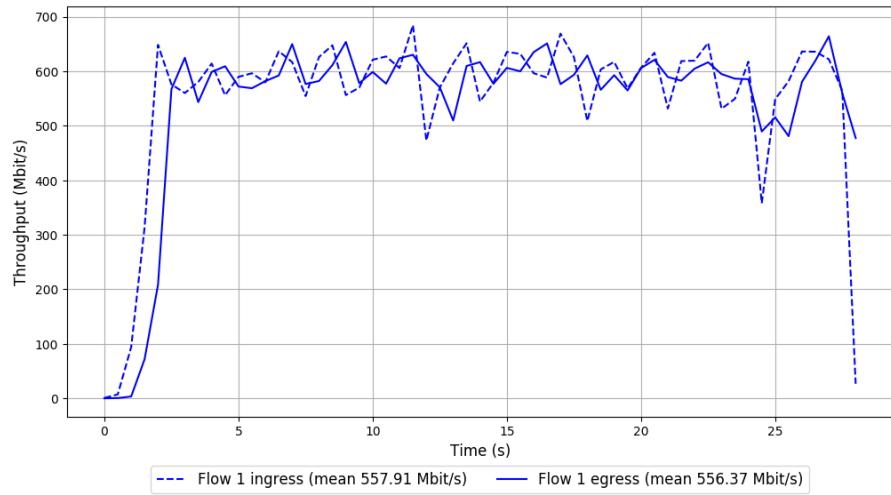


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-07-12 09:10:42
End at: 2019-07-12 09:11:12
Local clock offset: 0.145 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-07-12 12:35:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 556.37 Mbit/s
95th percentile per-packet one-way delay: 185.003 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 556.37 Mbit/s
95th percentile per-packet one-way delay: 185.003 ms
Loss rate: 1.22%
```

## Run 1: Report of Indigo-MusesC3 — Data Link

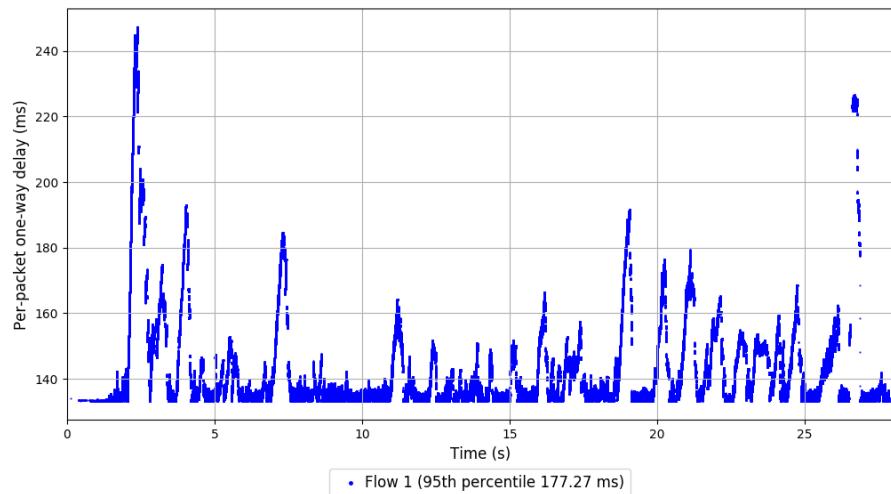
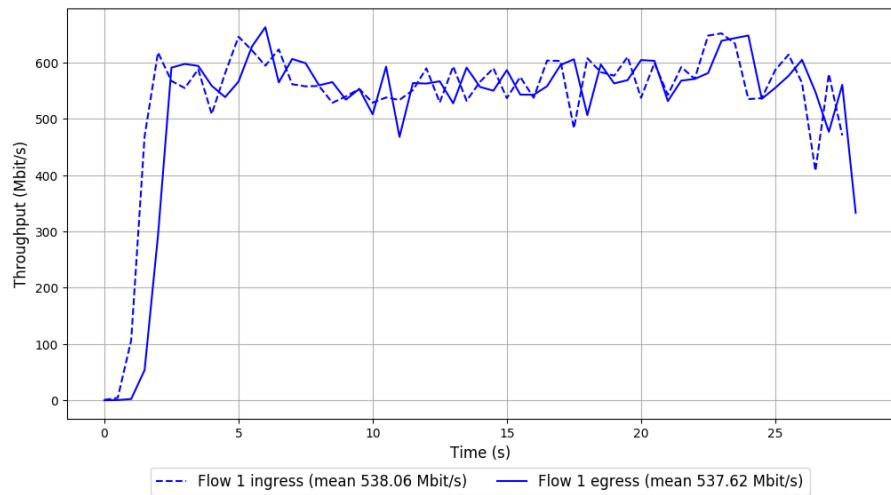


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 09:46:56
End at: 2019-07-12 09:47:26
Local clock offset: 0.115 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-07-12 12:39:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 537.62 Mbit/s
95th percentile per-packet one-way delay: 177.271 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 537.62 Mbit/s
95th percentile per-packet one-way delay: 177.271 ms
Loss rate: 1.05%
```

## Run 2: Report of Indigo-MusesC3 — Data Link

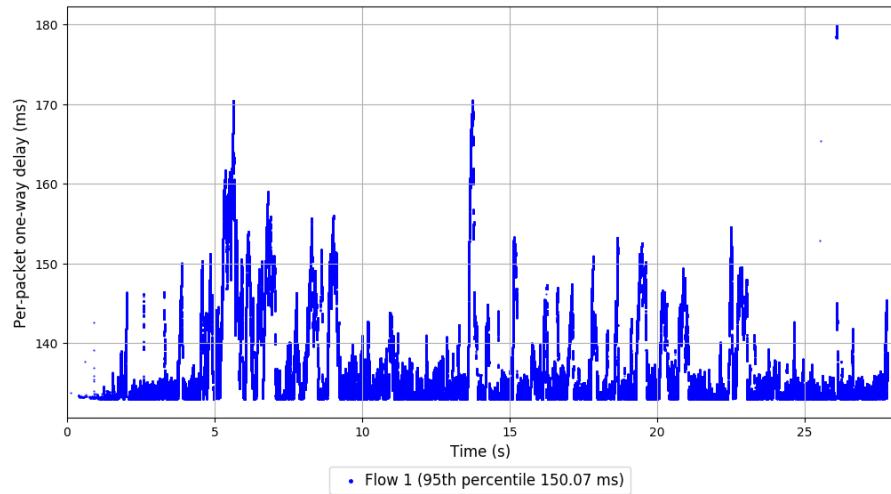
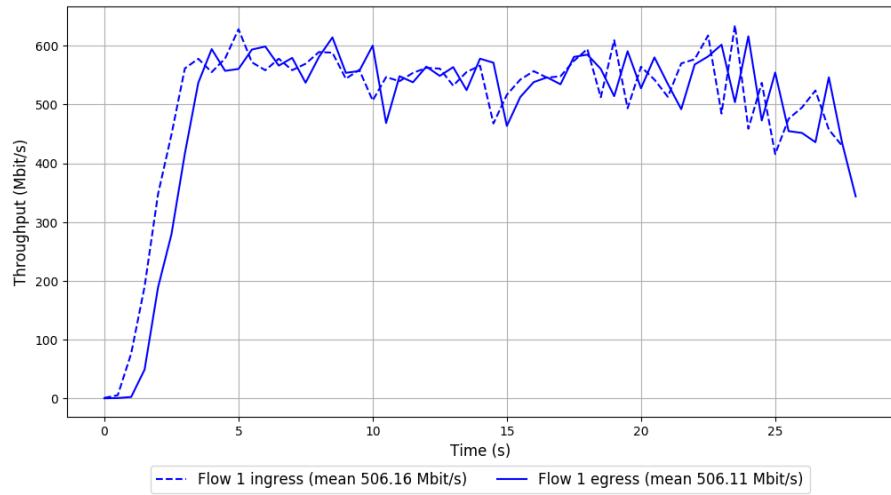


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 10:22:58
End at: 2019-07-12 10:23:28
Local clock offset: -0.047 ms
Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2019-07-12 12:39:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 506.11 Mbit/s
95th percentile per-packet one-way delay: 150.066 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 506.11 Mbit/s
95th percentile per-packet one-way delay: 150.066 ms
Loss rate: 0.96%
```

### Run 3: Report of Indigo-MusesC3 — Data Link

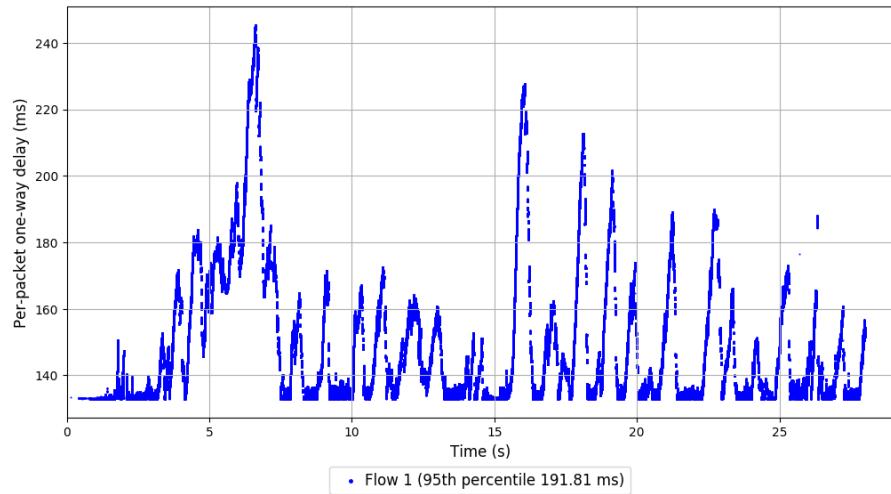
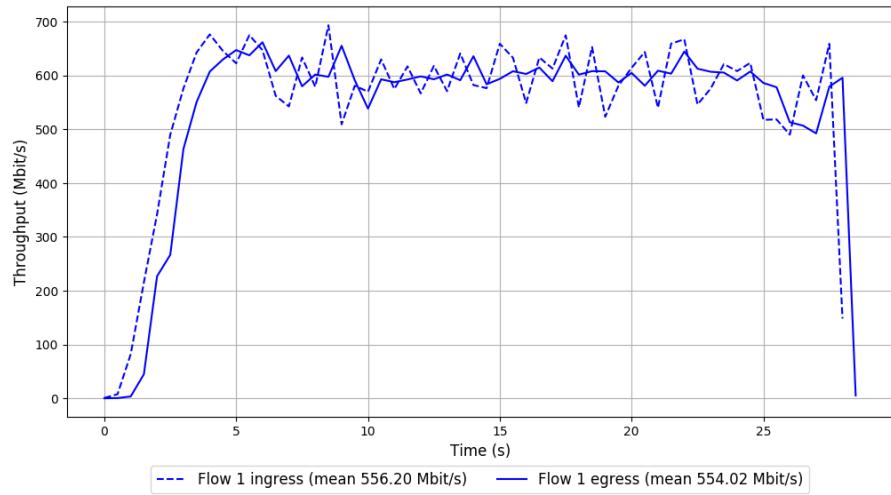


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 10:58:36
End at: 2019-07-12 10:59:06
Local clock offset: -0.053 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2019-07-12 12:40:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 554.02 Mbit/s
95th percentile per-packet one-way delay: 191.805 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 554.02 Mbit/s
95th percentile per-packet one-way delay: 191.805 ms
Loss rate: 1.34%
```

## Run 4: Report of Indigo-MusesC3 — Data Link

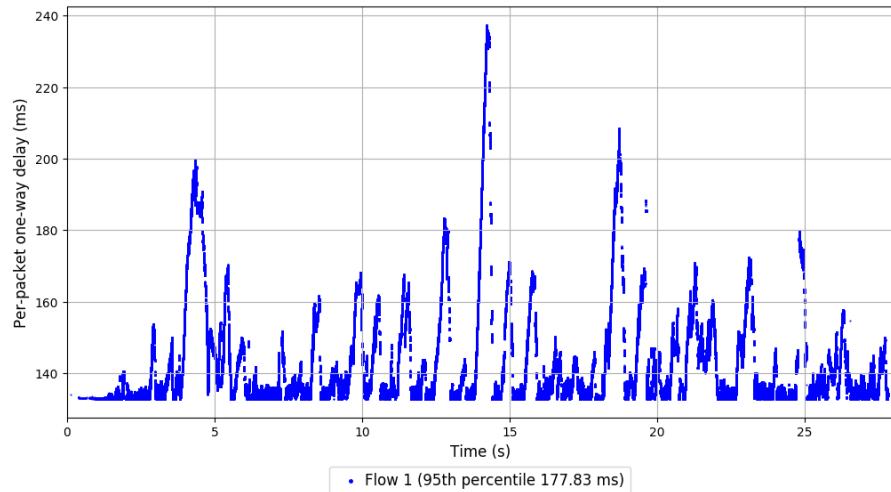
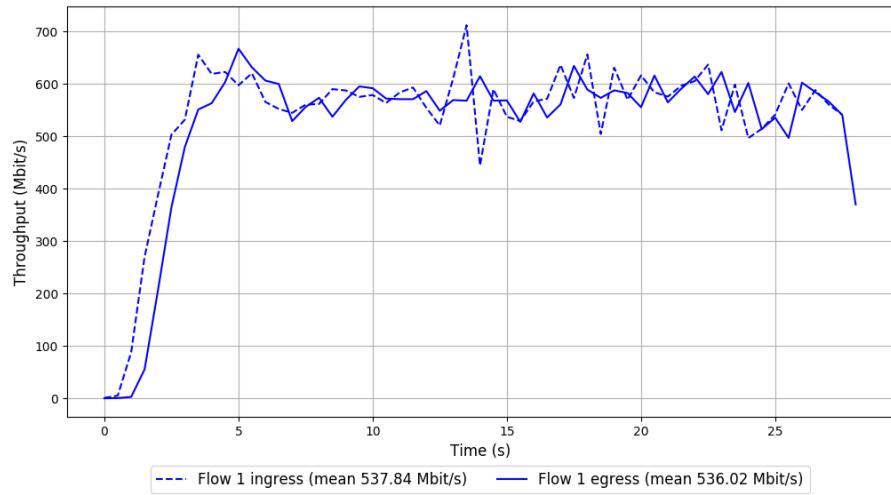


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 11:35:05
End at: 2019-07-12 11:35:35
Local clock offset: 0.038 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-07-12 12:40:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 536.02 Mbit/s
95th percentile per-packet one-way delay: 177.831 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 536.02 Mbit/s
95th percentile per-packet one-way delay: 177.831 ms
Loss rate: 1.29%
```

## Run 5: Report of Indigo-MusesC3 — Data Link

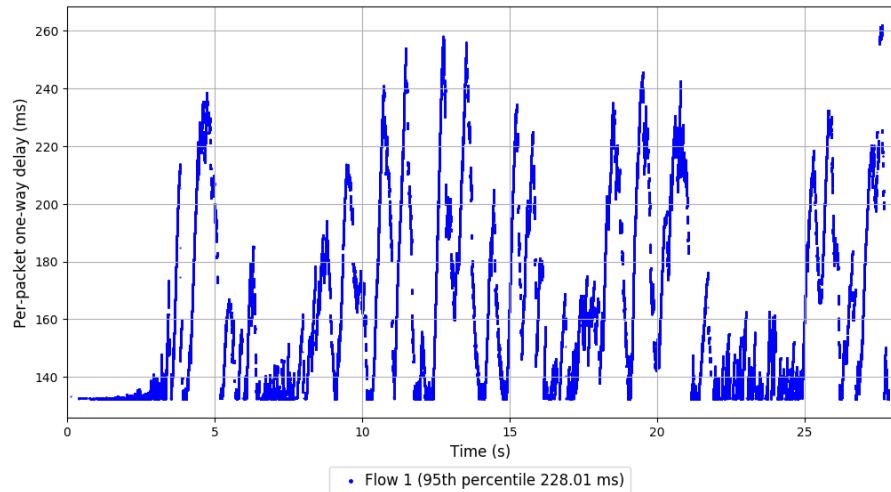
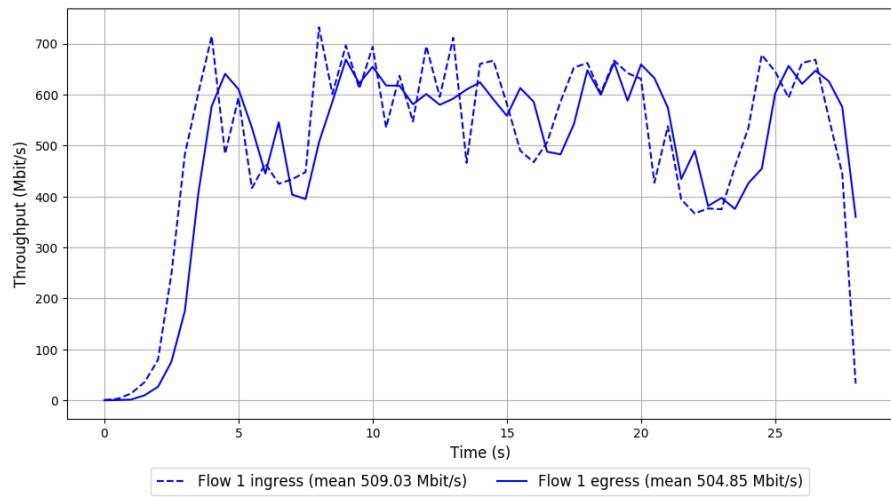


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-07-12 08:57:26
End at: 2019-07-12 08:57:56
Local clock offset: -0.029 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-07-12 12:40:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 504.85 Mbit/s
95th percentile per-packet one-way delay: 228.009 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 504.85 Mbit/s
95th percentile per-packet one-way delay: 228.009 ms
Loss rate: 1.94%
```

Run 1: Report of Indigo-MusesC5 — Data Link

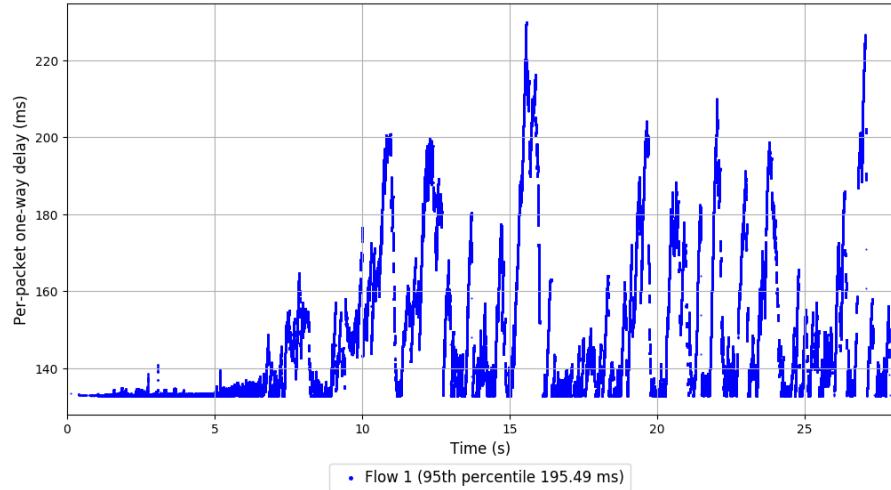
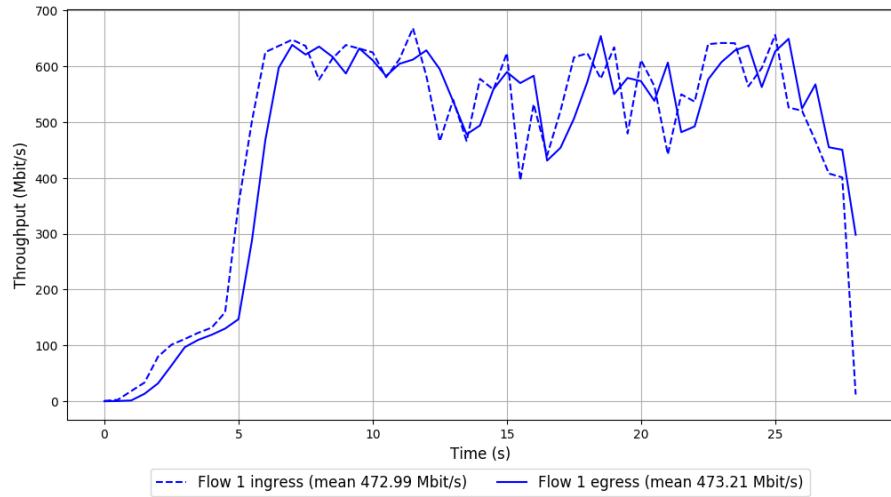


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 09:33:52
End at: 2019-07-12 09:34:22
Local clock offset: 0.1 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2019-07-12 12:40:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 473.21 Mbit/s
95th percentile per-packet one-way delay: 195.485 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 473.21 Mbit/s
95th percentile per-packet one-way delay: 195.485 ms
Loss rate: 0.95%
```

## Run 2: Report of Indigo-MusesC5 — Data Link

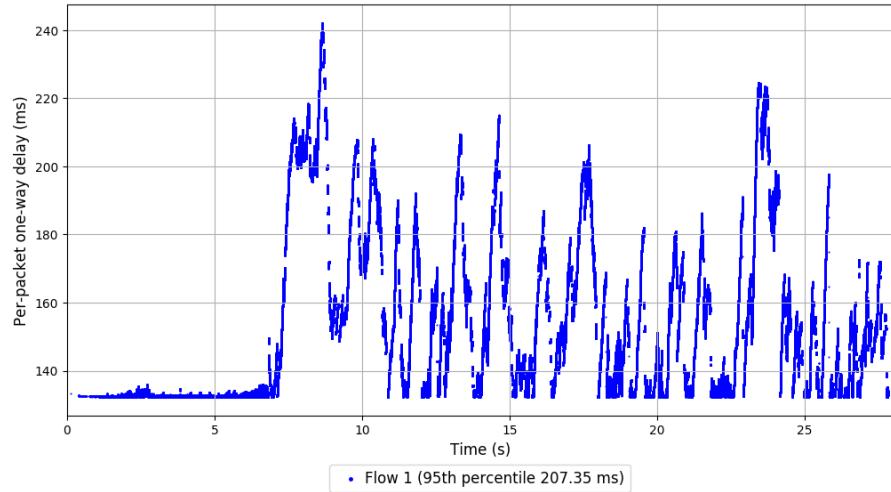
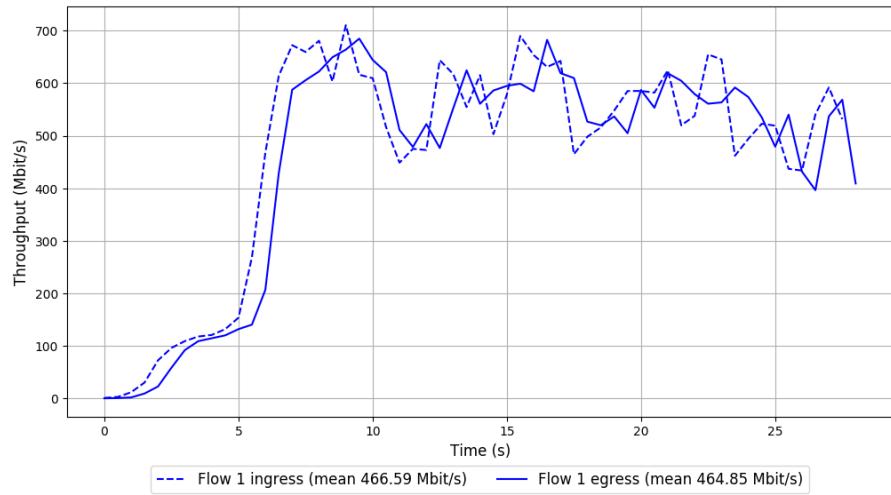


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 10:10:09
End at: 2019-07-12 10:10:39
Local clock offset: -0.075 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-07-12 12:42:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 464.85 Mbit/s
95th percentile per-packet one-way delay: 207.348 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 464.85 Mbit/s
95th percentile per-packet one-way delay: 207.348 ms
Loss rate: 1.35%
```

### Run 3: Report of Indigo-MusesC5 — Data Link

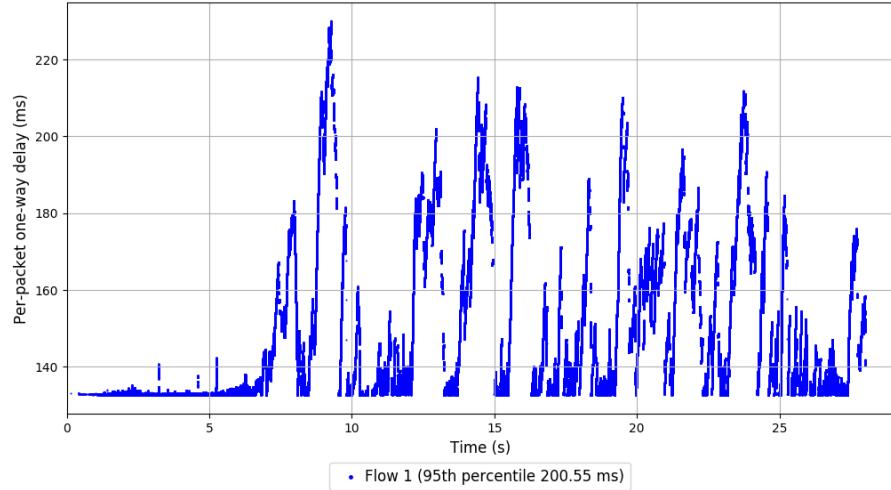
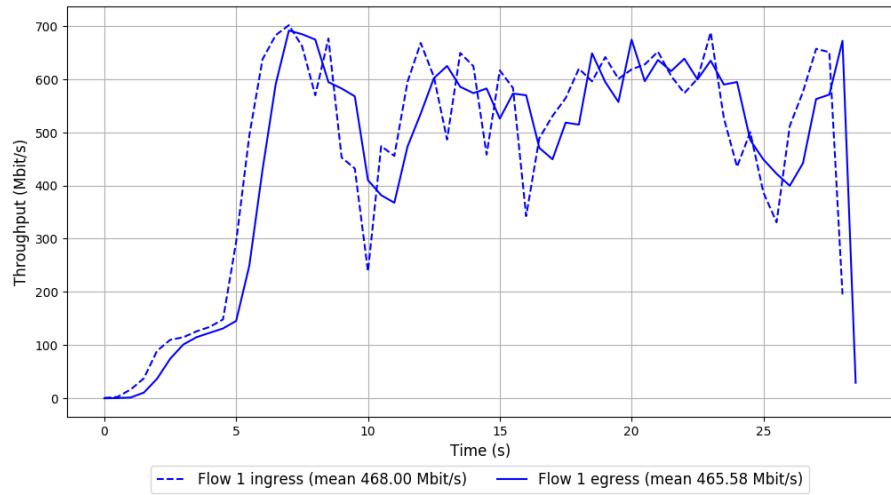


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 10:45:21
End at: 2019-07-12 10:45:51
Local clock offset: -0.299 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-07-12 12:43:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 465.58 Mbit/s
95th percentile per-packet one-way delay: 200.551 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 465.58 Mbit/s
95th percentile per-packet one-way delay: 200.551 ms
Loss rate: 1.46%
```

## Run 4: Report of Indigo-MusesC5 — Data Link

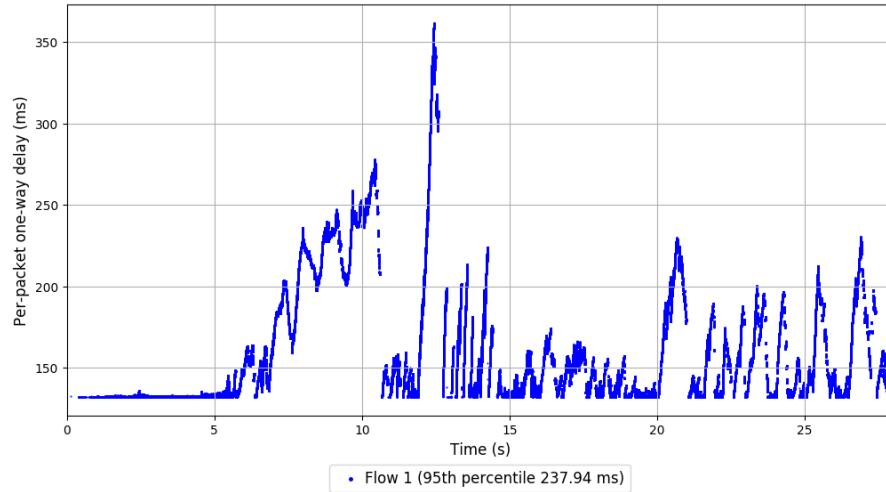
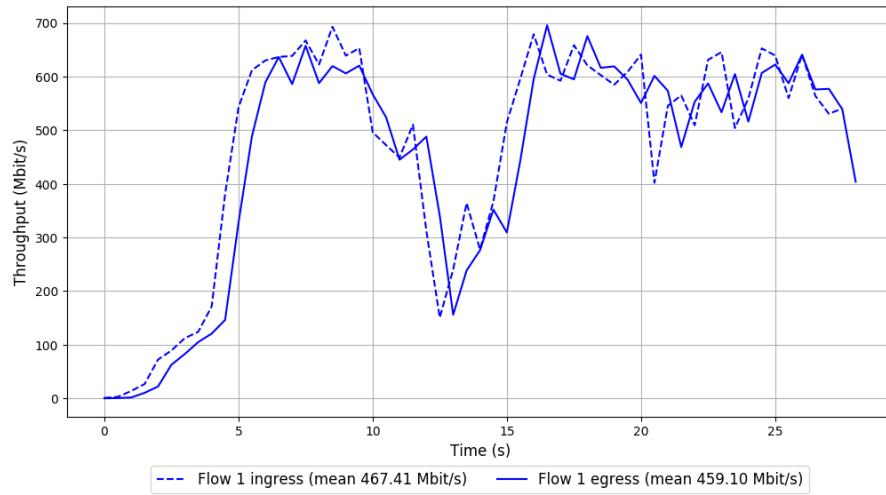


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 11:21:43
End at: 2019-07-12 11:22:13
Local clock offset: -0.084 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-07-12 12:47:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 459.10 Mbit/s
95th percentile per-packet one-way delay: 237.939 ms
Loss rate: 2.86%
-- Flow 1:
Average throughput: 459.10 Mbit/s
95th percentile per-packet one-way delay: 237.939 ms
Loss rate: 2.86%
```

## Run 5: Report of Indigo-MusesC5 — Data Link

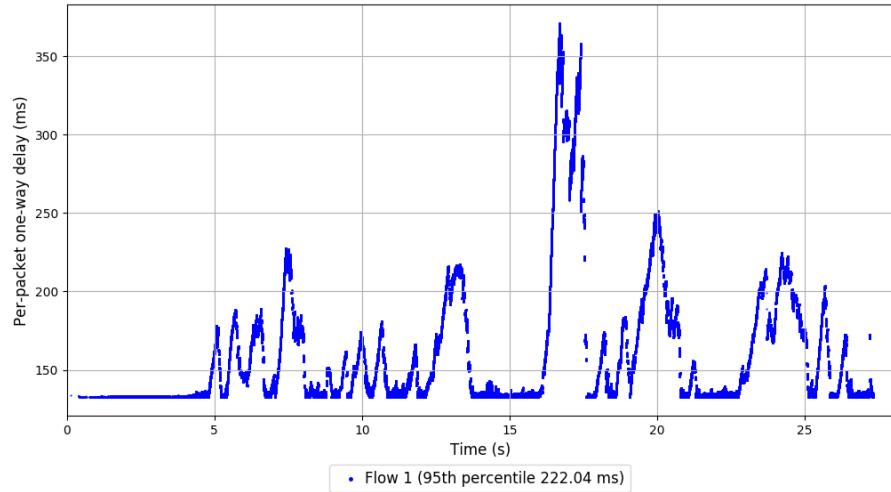
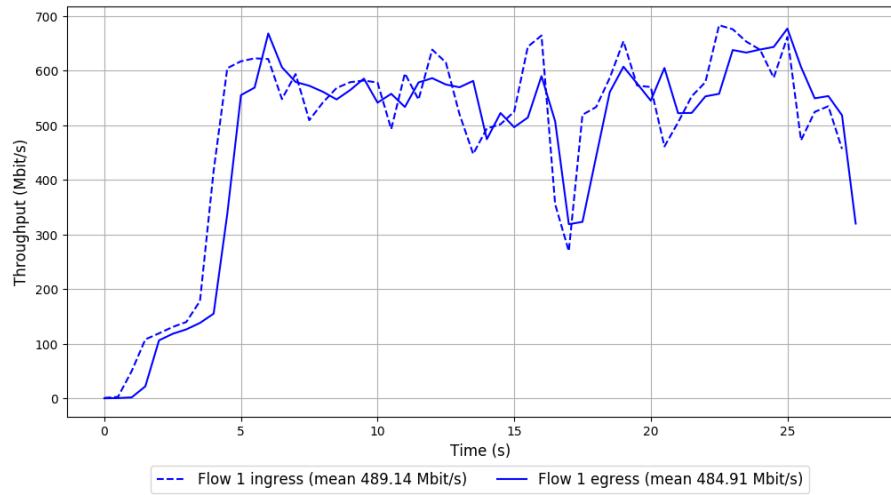


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-07-12 08:48:38
End at: 2019-07-12 08:49:08
Local clock offset: -0.088 ms
Remote clock offset: -0.401 ms

# Below is generated by plot.py at 2019-07-12 12:47:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 484.91 Mbit/s
95th percentile per-packet one-way delay: 222.037 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 484.91 Mbit/s
95th percentile per-packet one-way delay: 222.037 ms
Loss rate: 1.83%
```

## Run 1: Report of Indigo-MusesD — Data Link

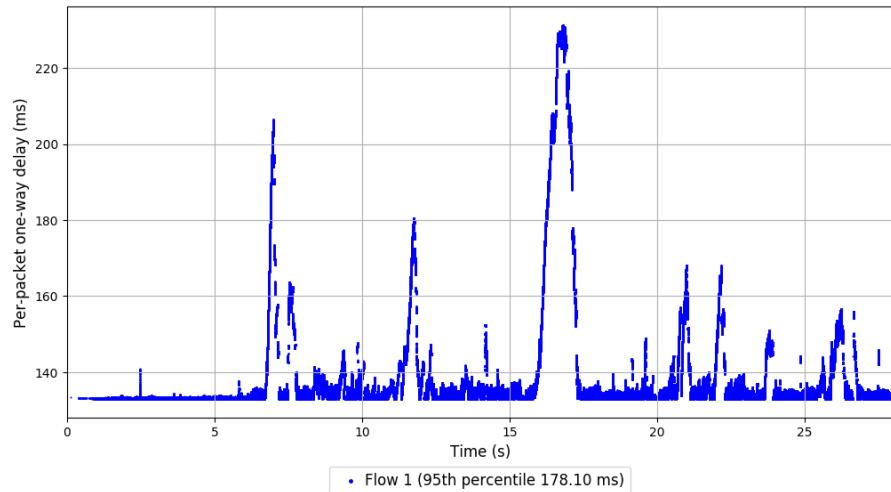
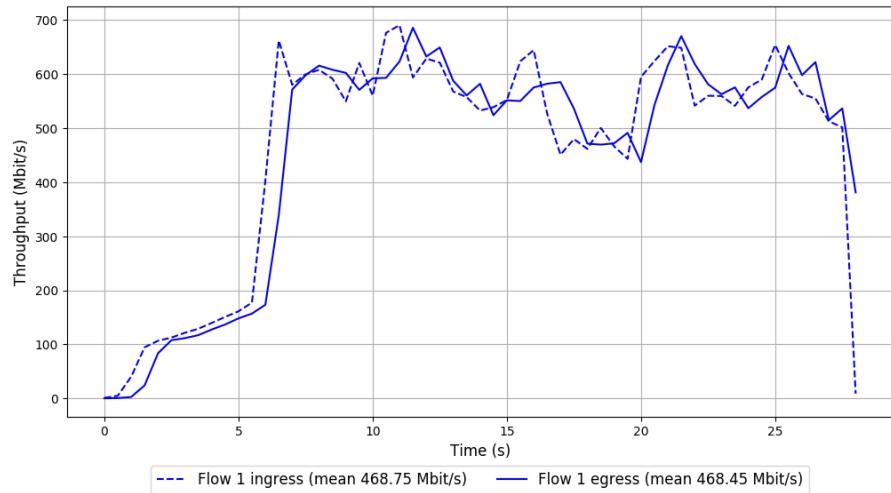


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 09:25:07
End at: 2019-07-12 09:25:37
Local clock offset: -0.049 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-07-12 12:48:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 468.45 Mbit/s
95th percentile per-packet one-way delay: 178.100 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 468.45 Mbit/s
95th percentile per-packet one-way delay: 178.100 ms
Loss rate: 1.01%
```

## Run 2: Report of Indigo-MusesD — Data Link

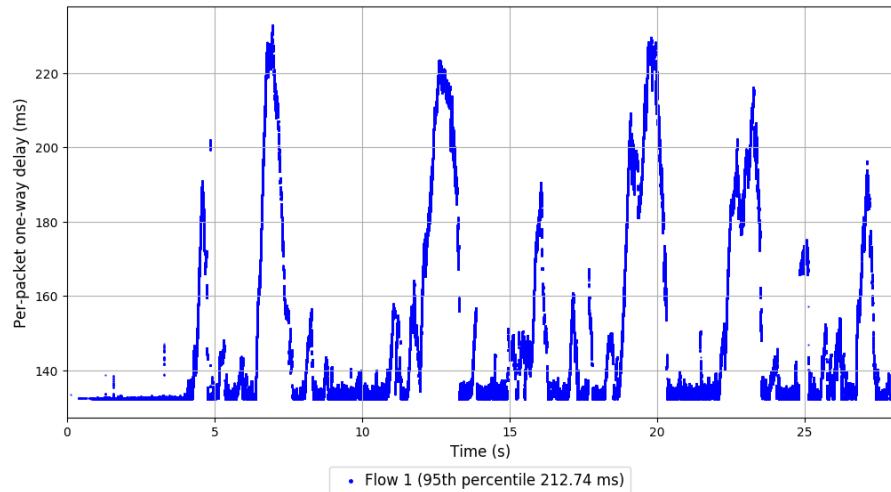
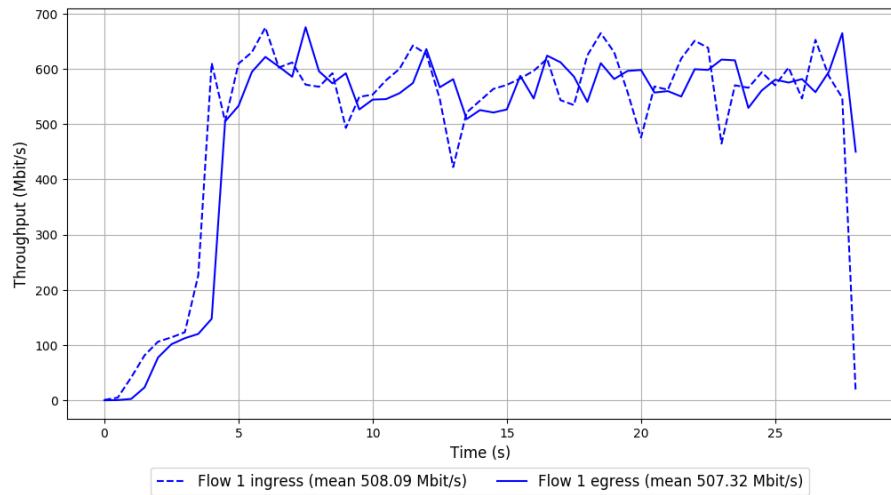


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 10:01:20
End at: 2019-07-12 10:01:50
Local clock offset: 0.321 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-07-12 12:49:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 507.32 Mbit/s
95th percentile per-packet one-way delay: 212.744 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 507.32 Mbit/s
95th percentile per-packet one-way delay: 212.744 ms
Loss rate: 1.10%
```

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

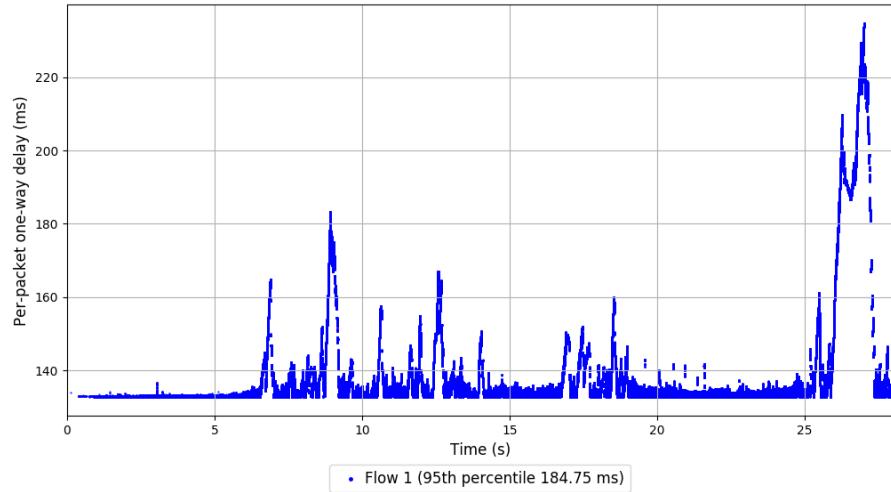
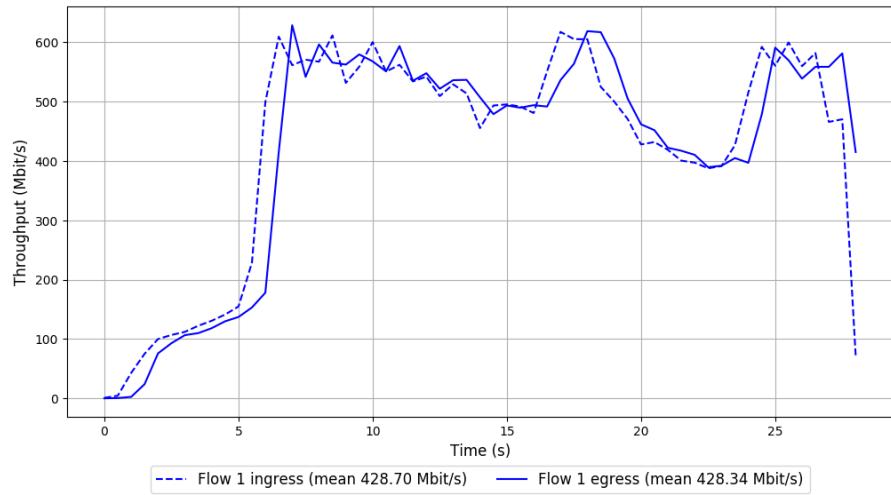


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 10:36:36
End at: 2019-07-12 10:37:06
Local clock offset: -0.094 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-07-12 12:49:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 428.34 Mbit/s
95th percentile per-packet one-way delay: 184.751 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 428.34 Mbit/s
95th percentile per-packet one-way delay: 184.751 ms
Loss rate: 1.03%
```

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

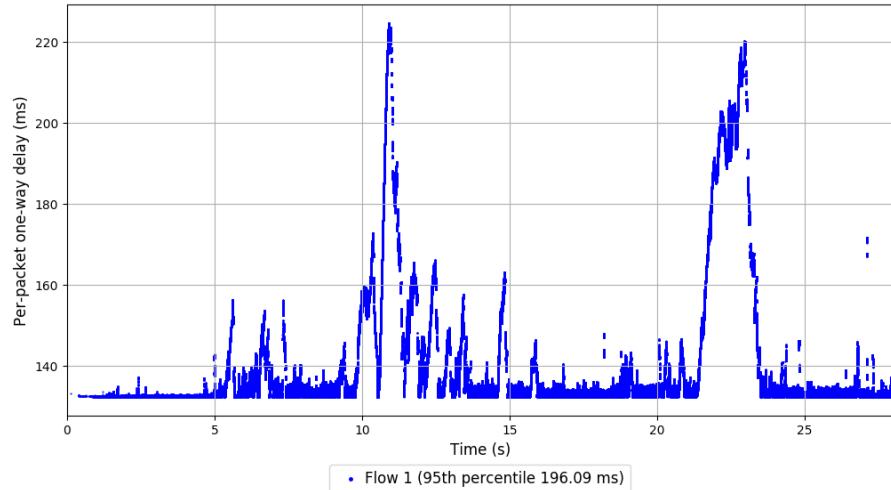
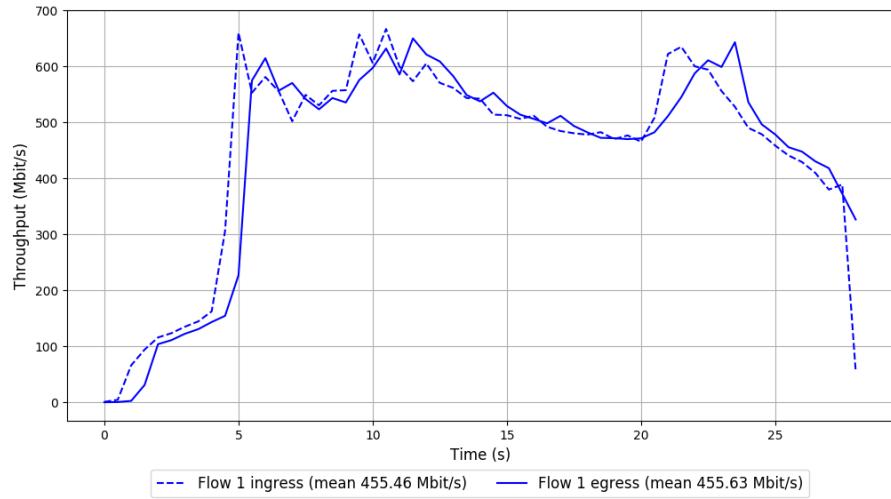


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 11:12:57
End at: 2019-07-12 11:13:27
Local clock offset: -0.453 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-07-12 12:49:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 455.63 Mbit/s
95th percentile per-packet one-way delay: 196.095 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 455.63 Mbit/s
95th percentile per-packet one-way delay: 196.095 ms
Loss rate: 0.91%
```

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

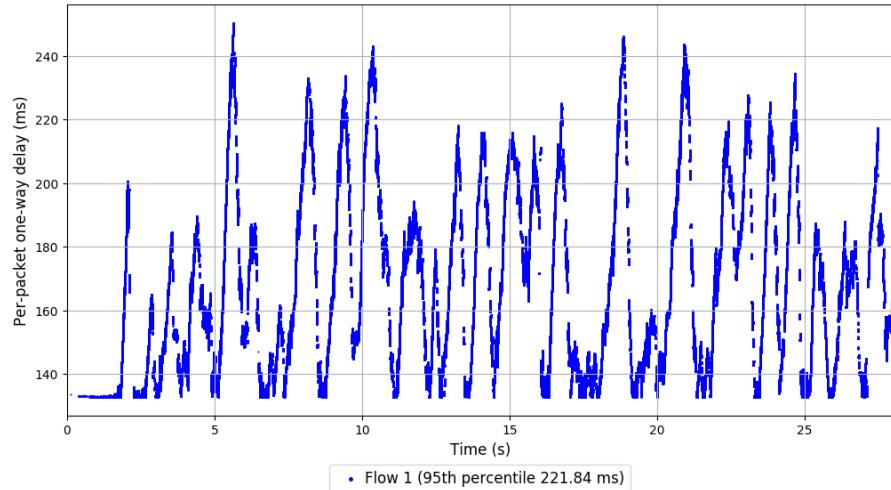
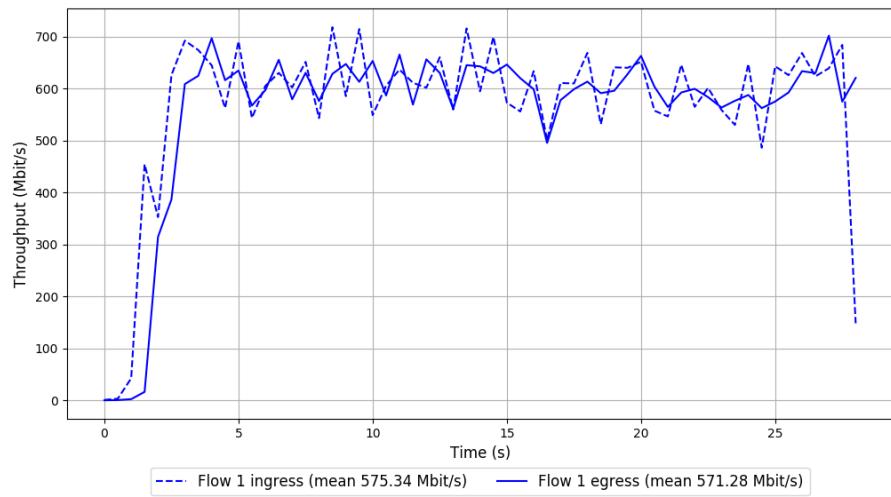


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 09:15:38
End at: 2019-07-12 09:16:08
Local clock offset: -0.017 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-07-12 12:52:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 571.28 Mbit/s
95th percentile per-packet one-way delay: 221.841 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 571.28 Mbit/s
95th percentile per-packet one-way delay: 221.841 ms
Loss rate: 1.65%
```

## Run 1: Report of Indigo-MusesT — Data Link

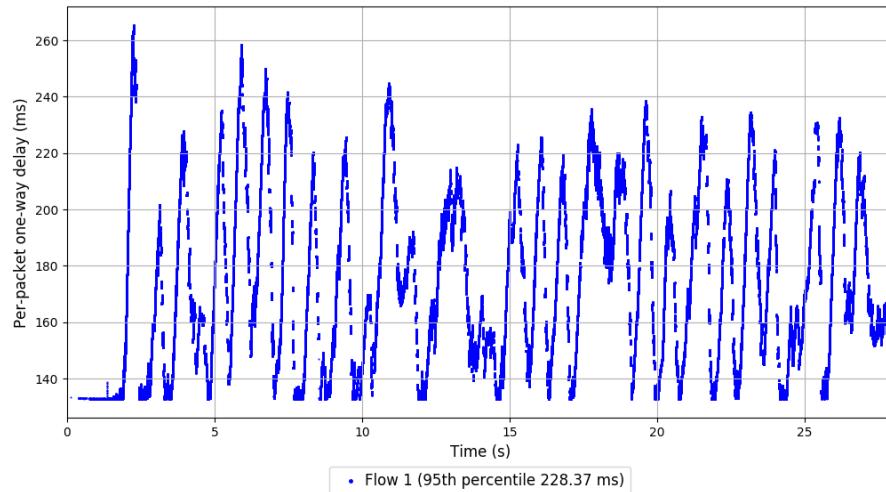
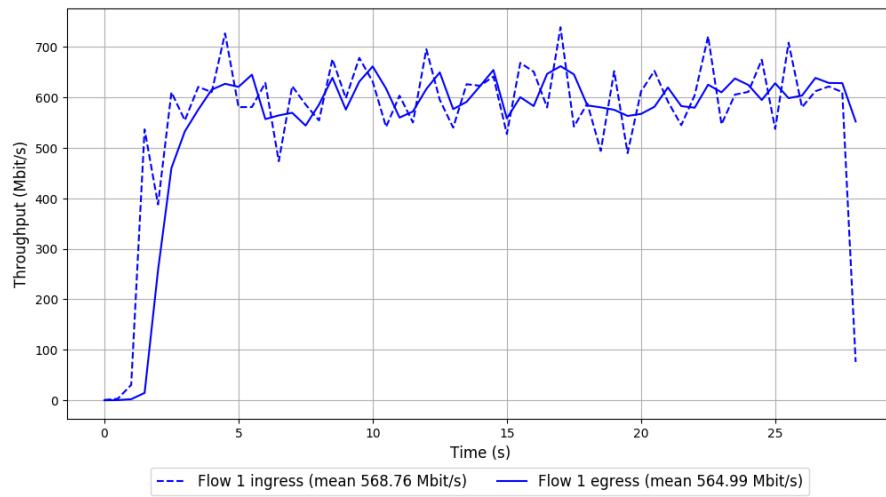


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 09:51:46
End at: 2019-07-12 09:52:16
Local clock offset: 0.347 ms
Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2019-07-12 12:54:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 564.99 Mbit/s
95th percentile per-packet one-way delay: 228.369 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 564.99 Mbit/s
95th percentile per-packet one-way delay: 228.369 ms
Loss rate: 1.60%
```

## Run 2: Report of Indigo-MusesT — Data Link

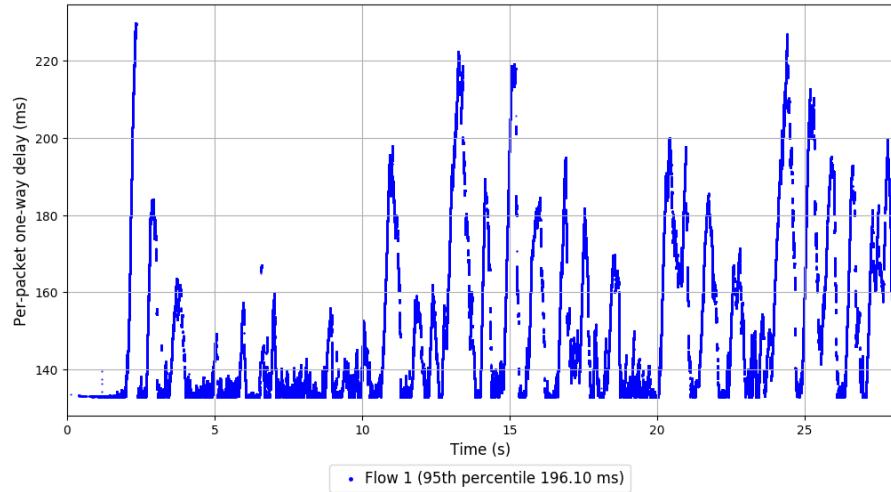
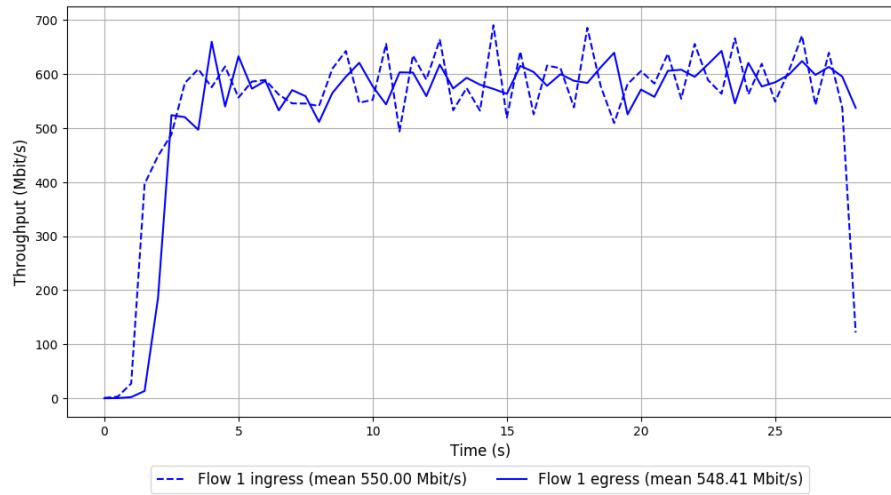


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 10:27:48
End at: 2019-07-12 10:28:18
Local clock offset: -0.03 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-07-12 12:57:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 548.41 Mbit/s
95th percentile per-packet one-way delay: 196.102 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 548.41 Mbit/s
95th percentile per-packet one-way delay: 196.102 ms
Loss rate: 1.24%
```

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

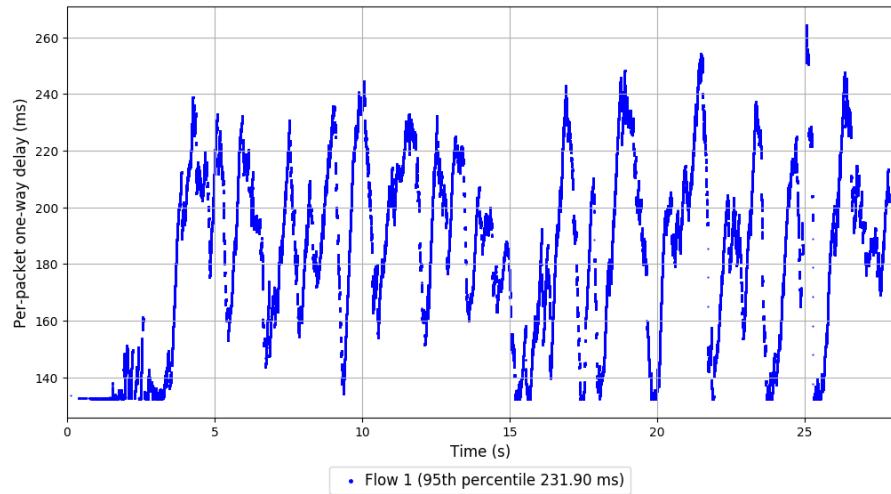
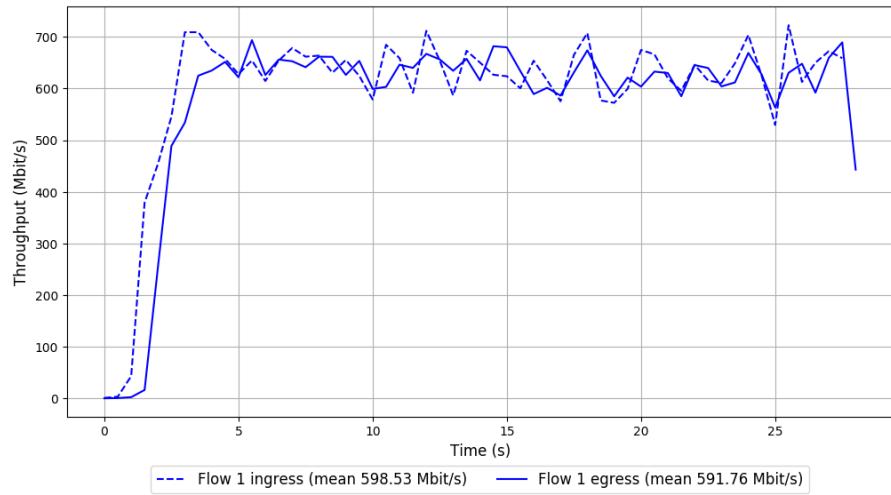


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 11:03:33
End at: 2019-07-12 11:04:03
Local clock offset: -0.465 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-07-12 12:58:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 591.76 Mbit/s
95th percentile per-packet one-way delay: 231.903 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 591.76 Mbit/s
95th percentile per-packet one-way delay: 231.903 ms
Loss rate: 2.07%
```

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

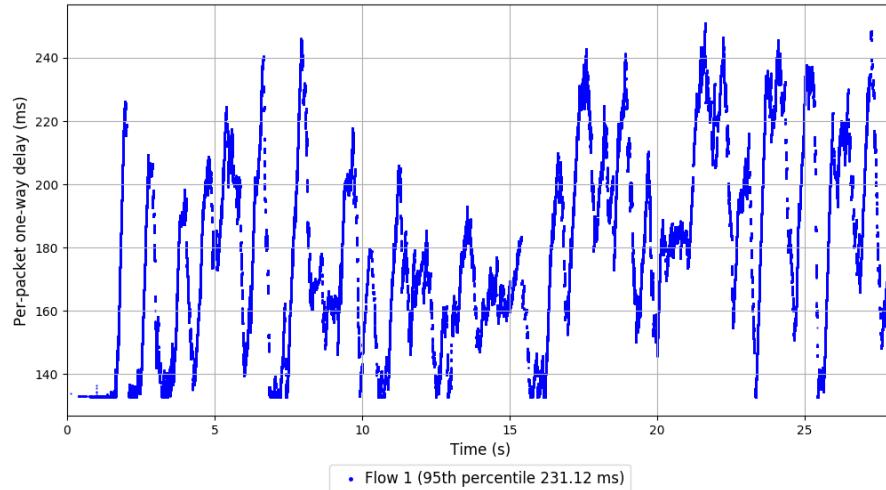
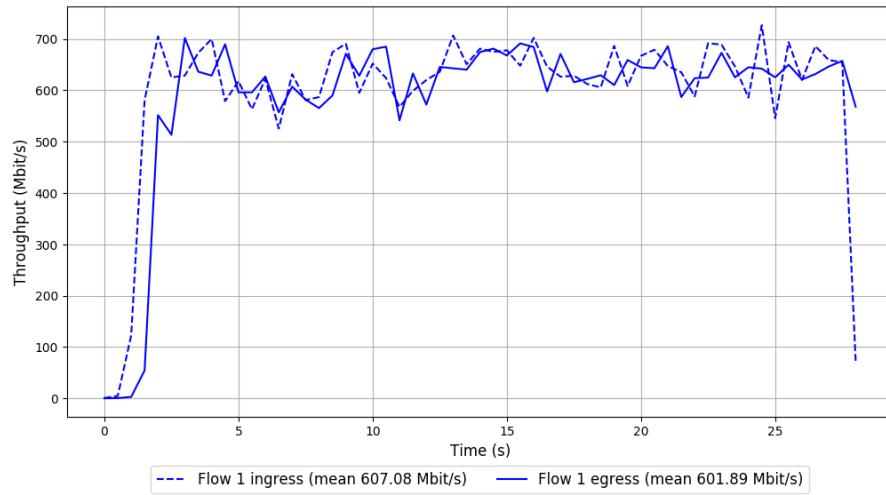


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 11:40:01
End at: 2019-07-12 11:40:31
Local clock offset: -0.042 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-07-12 12:58:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 601.89 Mbit/s
95th percentile per-packet one-way delay: 231.121 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 601.89 Mbit/s
95th percentile per-packet one-way delay: 231.121 ms
Loss rate: 1.80%
```

Run 5: Report of Indigo-MusesT — Data Link

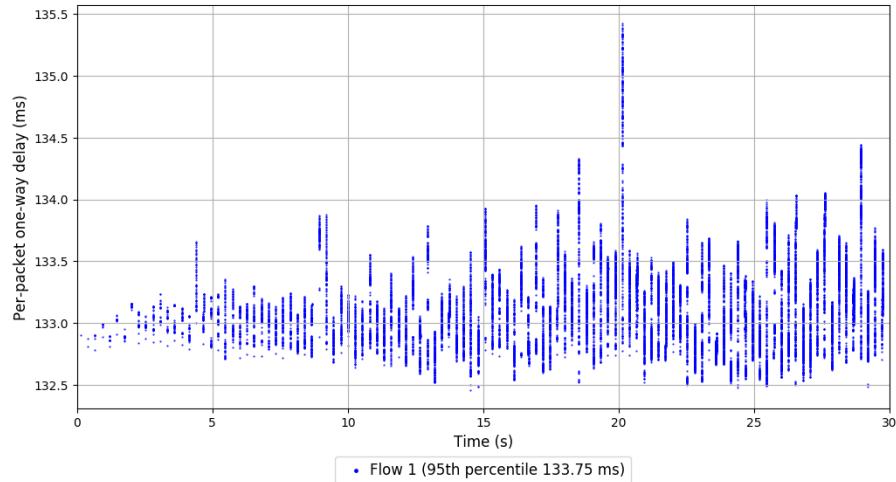
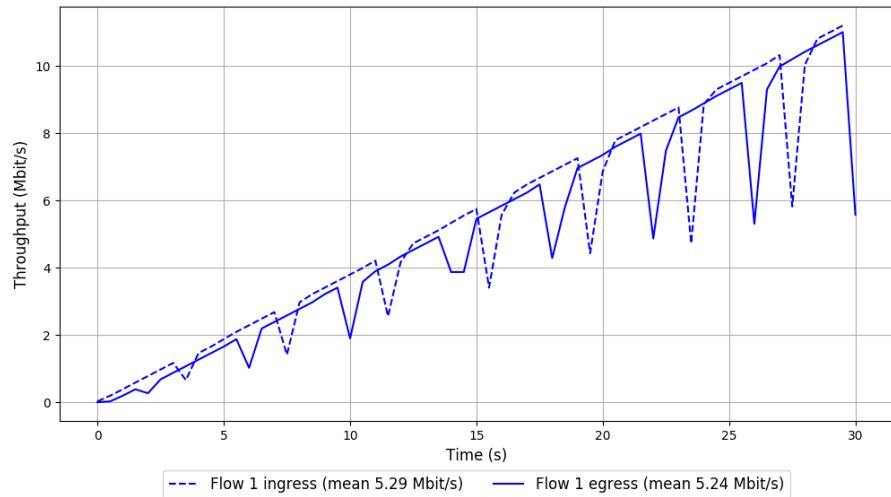


Run 1: Statistics of LEDBAT

```
Start at: 2019-07-12 09:09:30
End at: 2019-07-12 09:10:00
Local clock offset: -0.263 ms
Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2019-07-12 12:58:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 133.754 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 133.754 ms
Loss rate: 1.78%
```

Run 1: Report of LEDBAT — Data Link

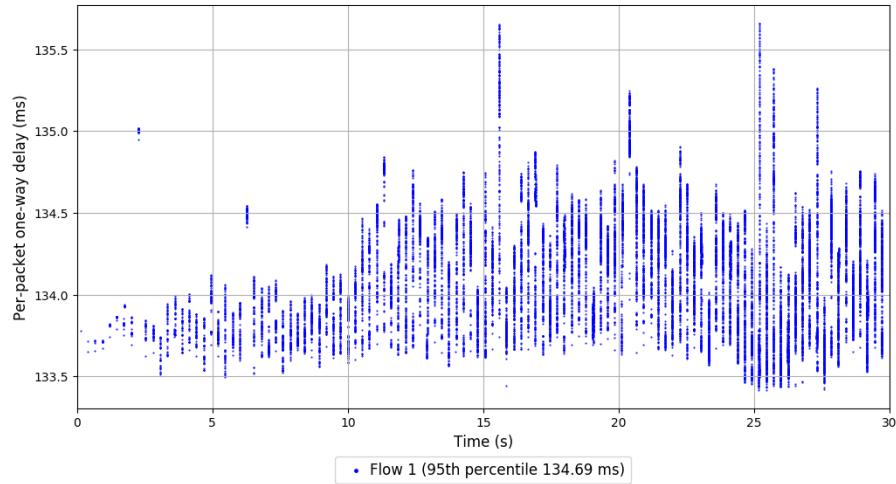
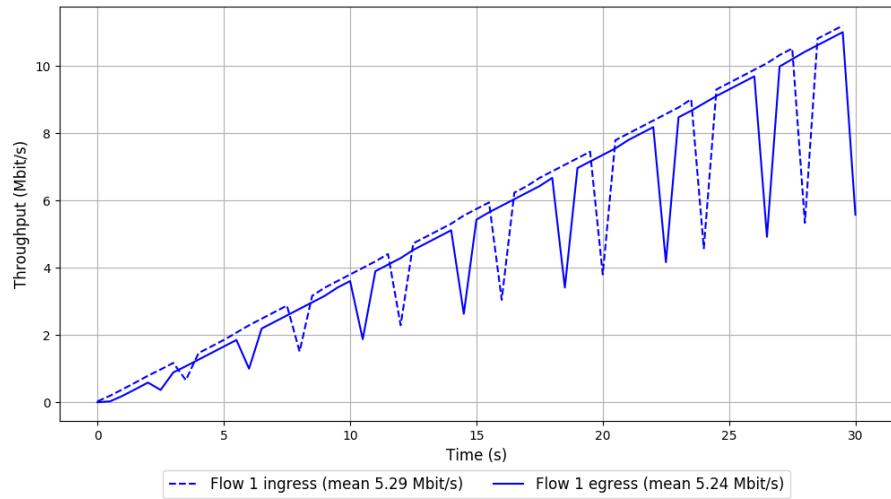


Run 2: Statistics of LEDBAT

```
Start at: 2019-07-12 09:45:44
End at: 2019-07-12 09:46:14
Local clock offset: 0.398 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-07-12 12:58:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 134.690 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 134.690 ms
Loss rate: 1.78%
```

## Run 2: Report of LEDBAT — Data Link

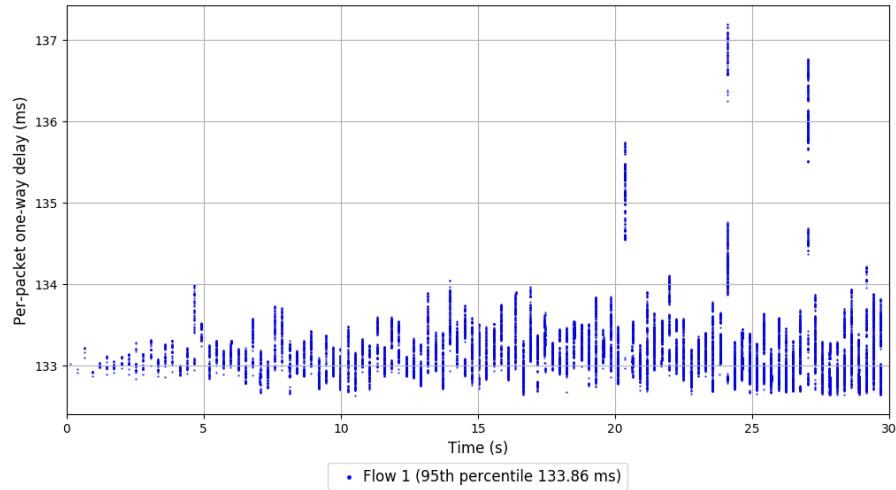
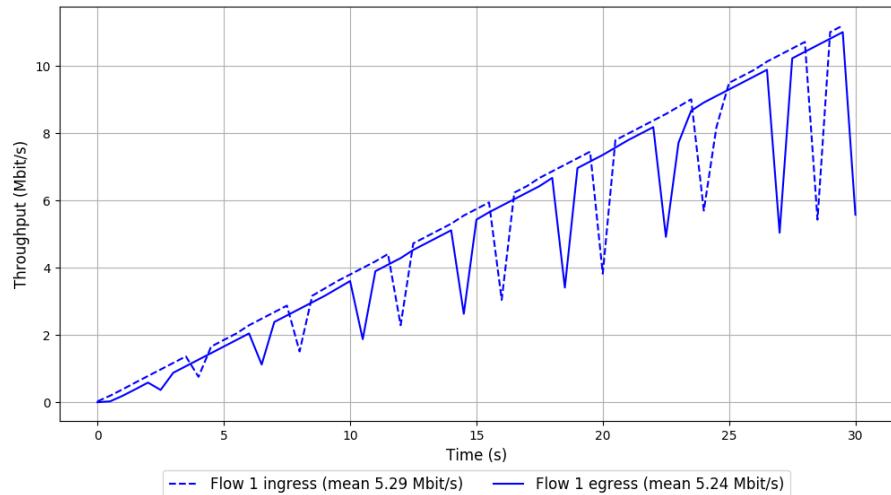


Run 3: Statistics of LEDBAT

```
Start at: 2019-07-12 10:21:46
End at: 2019-07-12 10:22:16
Local clock offset: -0.137 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-07-12 12:58:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 133.861 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 133.861 ms
Loss rate: 1.78%
```

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

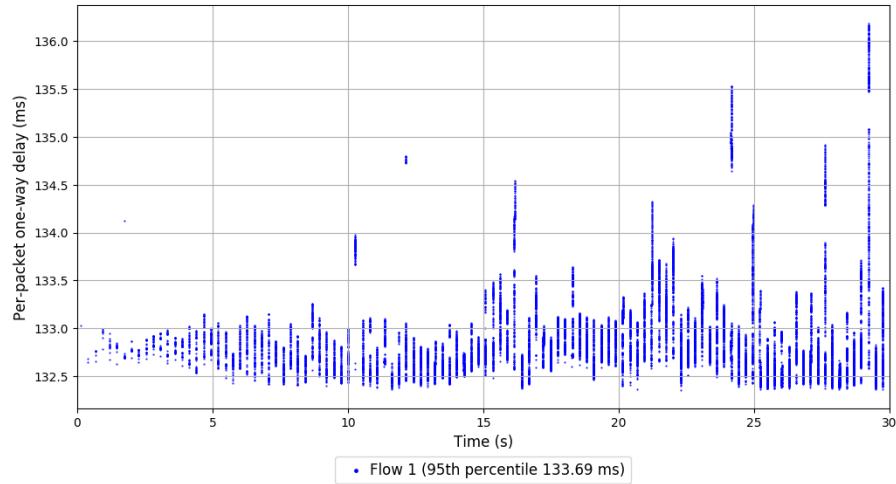
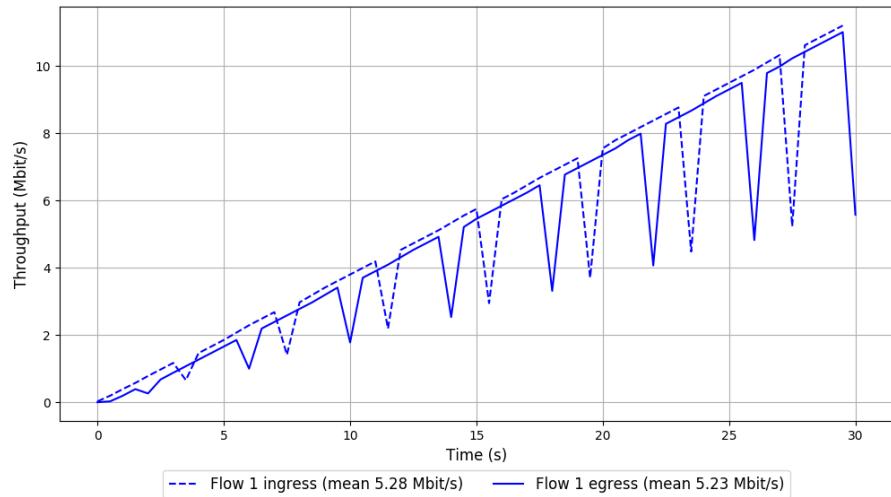


Run 4: Statistics of LEDBAT

```
Start at: 2019-07-12 10:57:24
End at: 2019-07-12 10:57:54
Local clock offset: -0.462 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-07-12 12:58:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.688 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.688 ms
Loss rate: 1.78%
```

Run 4: Report of LEDBAT — Data Link

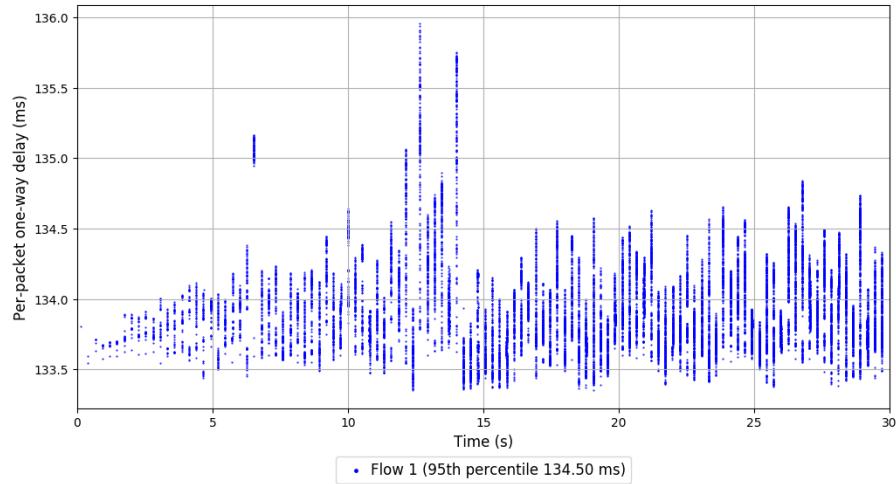
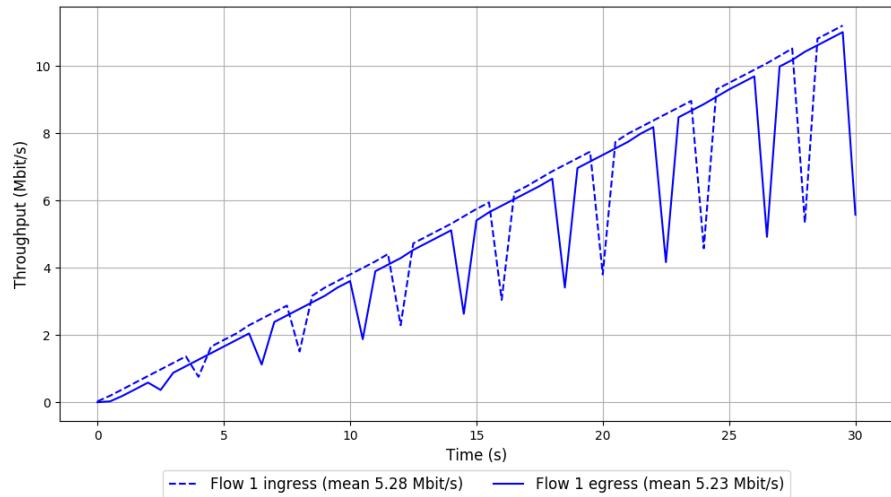


Run 5: Statistics of LEDBAT

```
Start at: 2019-07-12 11:33:53
End at: 2019-07-12 11:34:23
Local clock offset: 0.369 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-07-12 12:58:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 134.505 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 134.505 ms
Loss rate: 1.78%
```

Run 5: Report of LEDBAT — Data Link

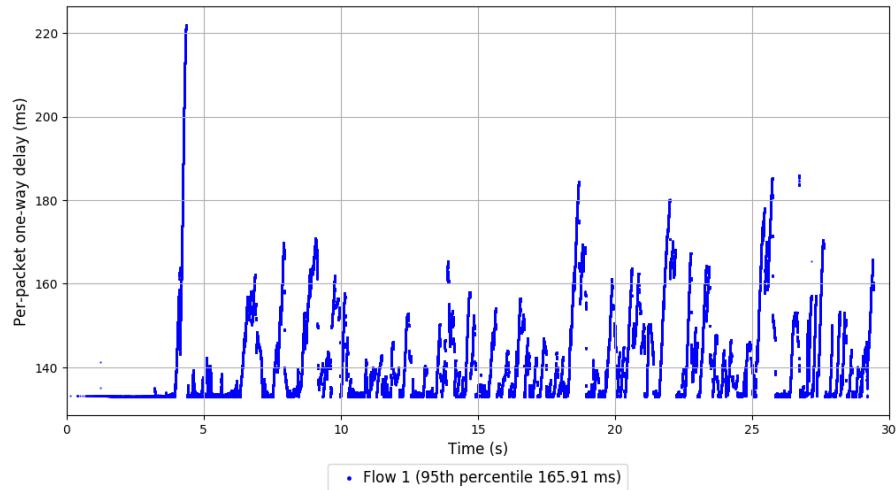
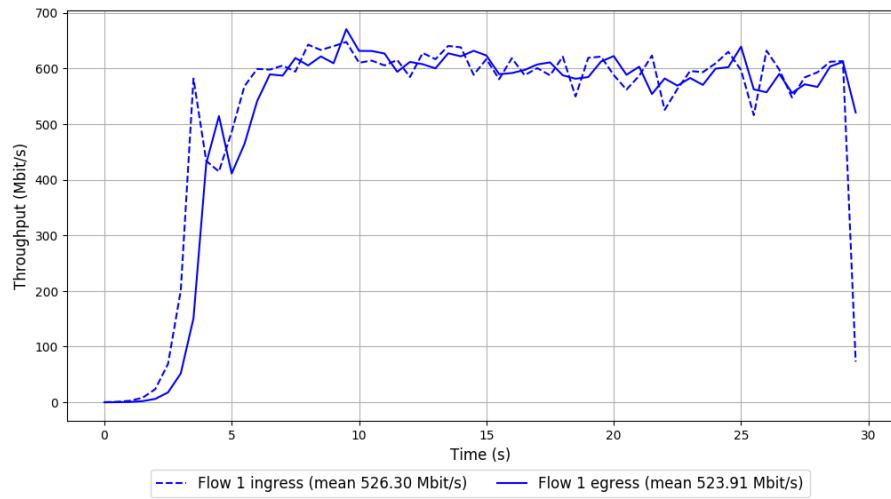


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 09:18:59
End at: 2019-07-12 09:19:29
Local clock offset: 0.236 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-07-12 12:58:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 523.91 Mbit/s
95th percentile per-packet one-way delay: 165.912 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 523.91 Mbit/s
95th percentile per-packet one-way delay: 165.912 ms
Loss rate: 1.35%
```

Run 1: Report of Muses\_DecisionTree — Data Link

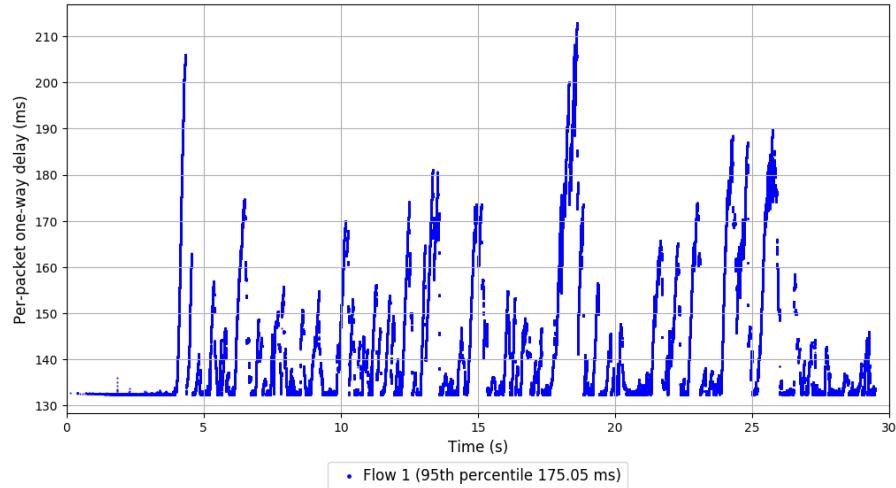
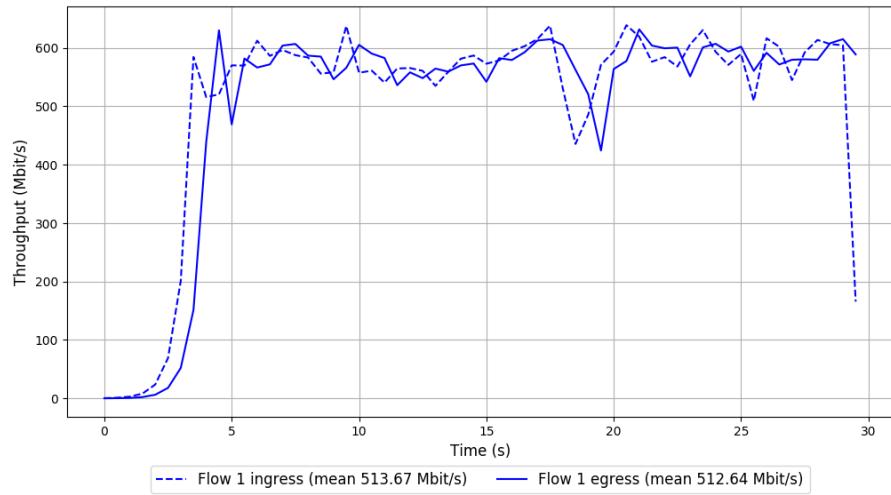


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 09:55:14
End at: 2019-07-12 09:55:44
Local clock offset: -0.491 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-07-12 12:58:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 512.64 Mbit/s
95th percentile per-packet one-way delay: 175.051 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 512.64 Mbit/s
95th percentile per-packet one-way delay: 175.051 ms
Loss rate: 1.10%
```

Run 2: Report of Muses\_DecisionTree — Data Link

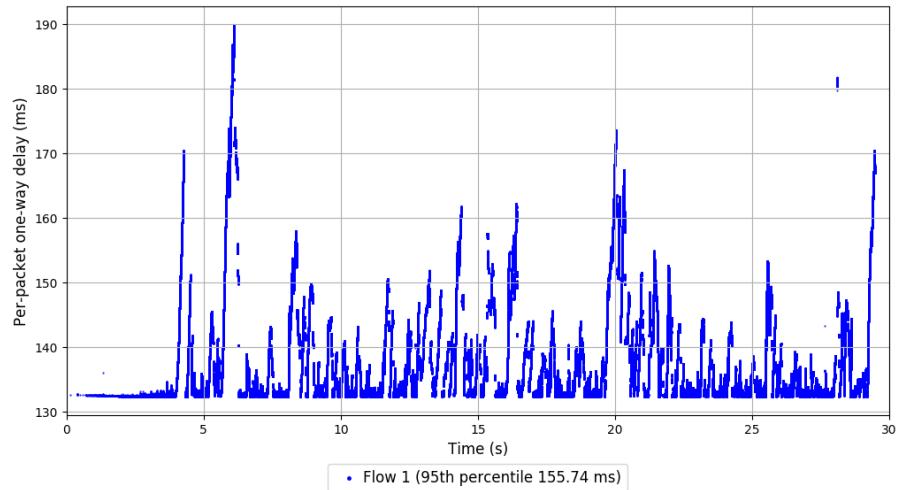
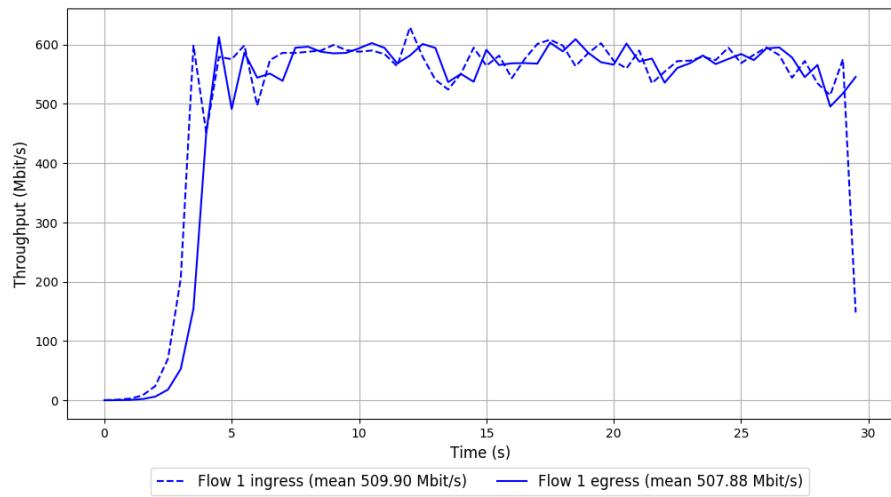


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 10:30:58
End at: 2019-07-12 10:31:28
Local clock offset: -0.002 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2019-07-12 12:58:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 507.88 Mbit/s
95th percentile per-packet one-way delay: 155.738 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 507.88 Mbit/s
95th percentile per-packet one-way delay: 155.738 ms
Loss rate: 1.25%
```

Run 3: Report of Muses\_DecisionTree — Data Link

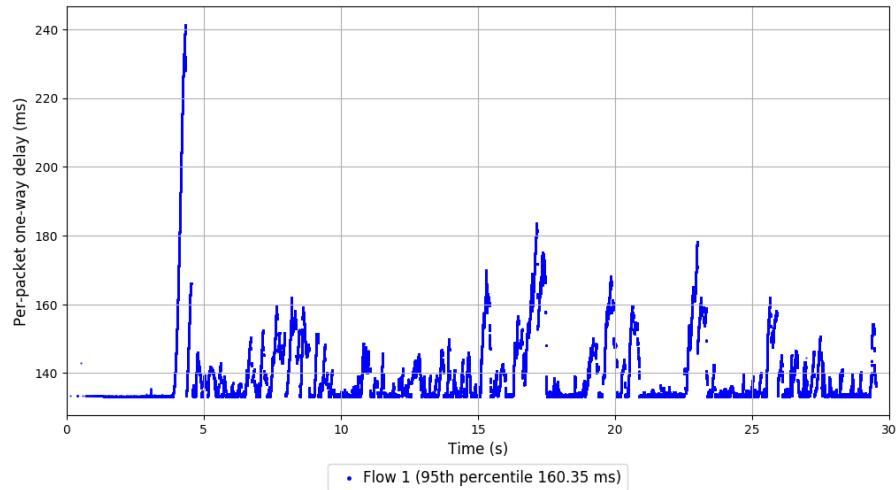
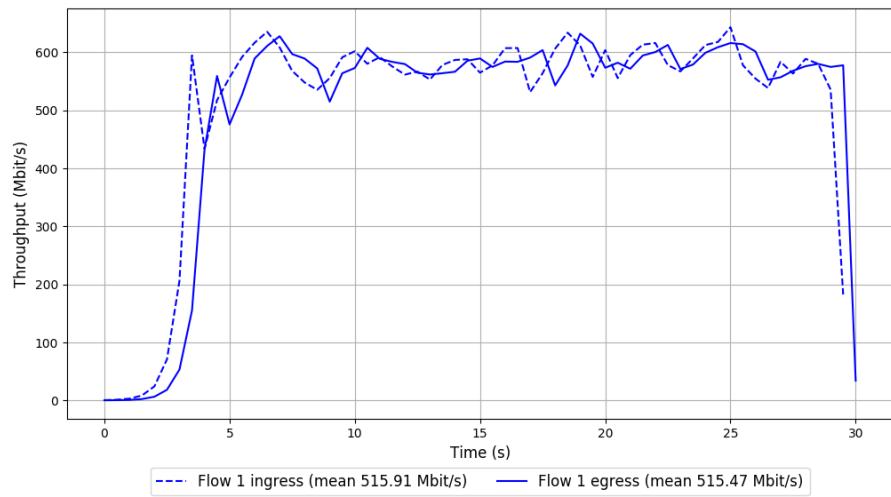


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 11:06:55
End at: 2019-07-12 11:07:25
Local clock offset: 0.376 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-07-12 13:03:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 515.47 Mbit/s
95th percentile per-packet one-way delay: 160.354 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 515.47 Mbit/s
95th percentile per-packet one-way delay: 160.354 ms
Loss rate: 0.98%
```

Run 4: Report of Muses\_DecisionTree — Data Link

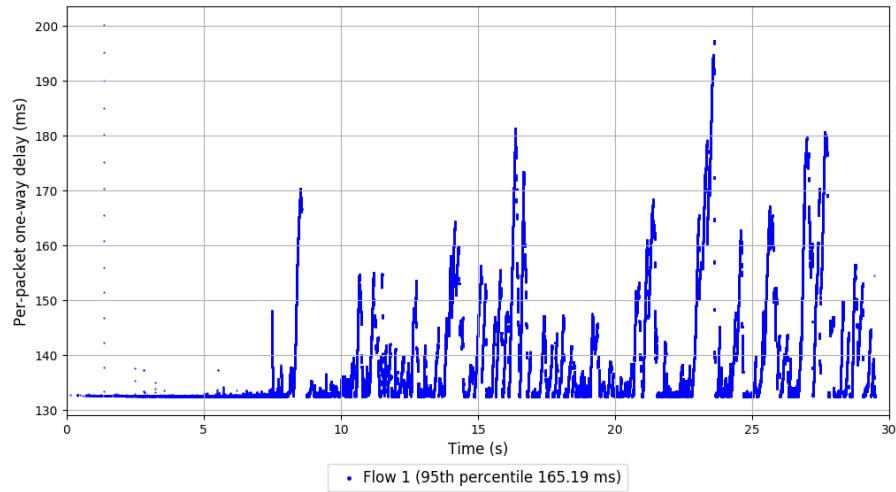
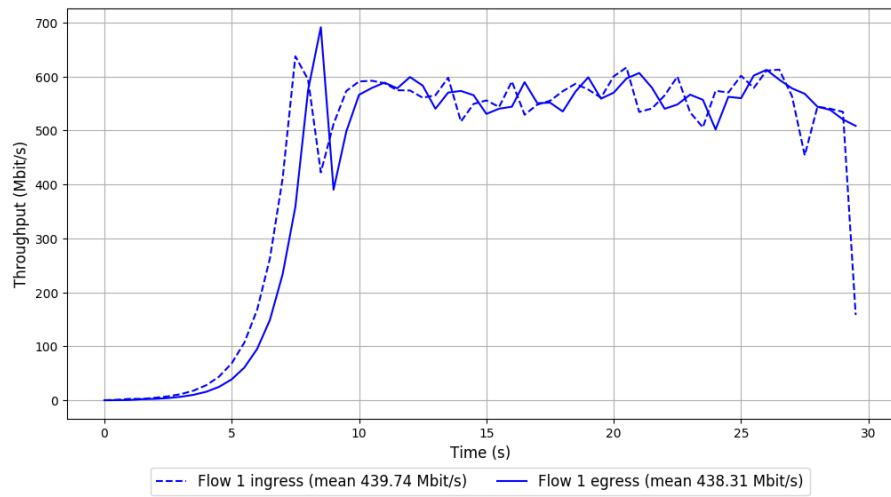


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 11:43:25
End at: 2019-07-12 11:43:55
Local clock offset: -0.465 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-07-12 13:03:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 438.31 Mbit/s
95th percentile per-packet one-way delay: 165.187 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 438.31 Mbit/s
95th percentile per-packet one-way delay: 165.187 ms
Loss rate: 1.22%
```

Run 5: Report of Muses\_DecisionTree — Data Link

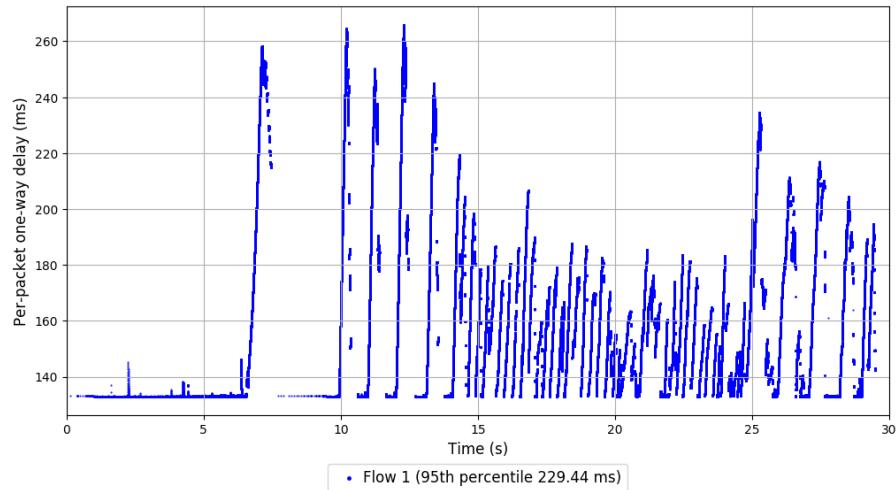
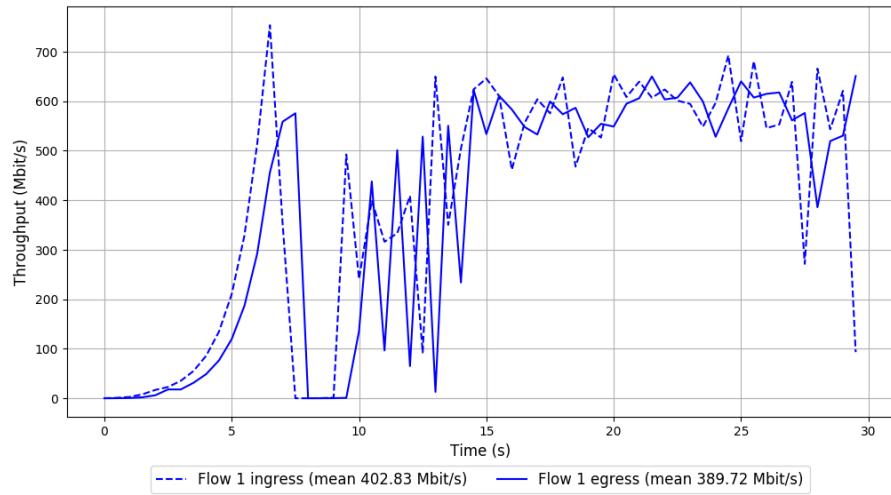


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 09:07:57
End at: 2019-07-12 09:08:27
Local clock offset: 0.227 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-07-12 13:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 389.72 Mbit/s
95th percentile per-packet one-way delay: 229.437 ms
Loss rate: 4.12%
-- Flow 1:
Average throughput: 389.72 Mbit/s
95th percentile per-packet one-way delay: 229.437 ms
Loss rate: 4.12%
```

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

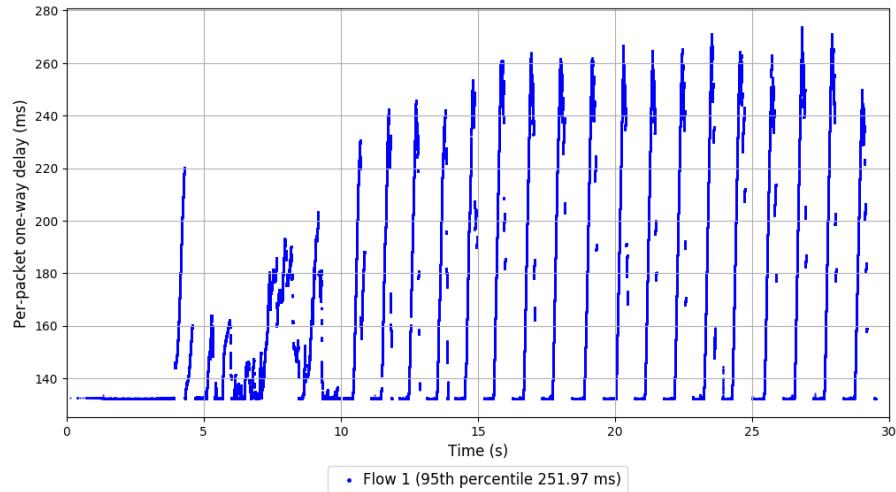
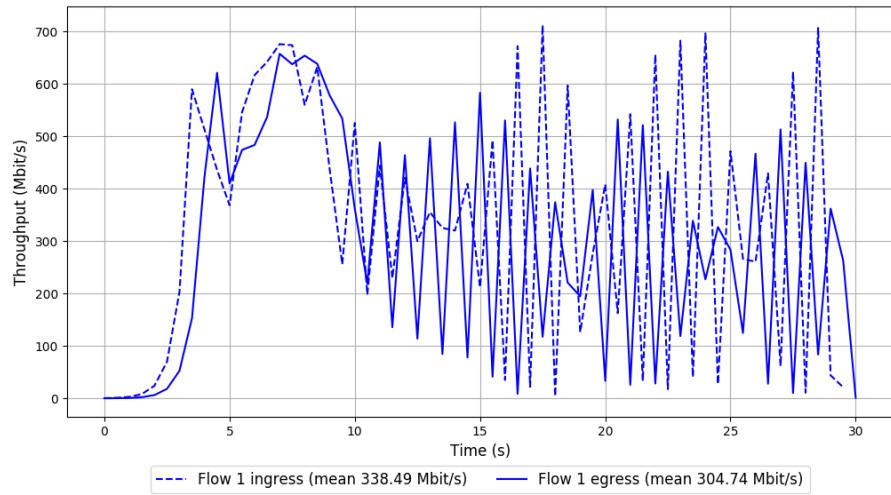


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 09:44:15
End at: 2019-07-12 09:44:45
Local clock offset: -0.127 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-07-12 13:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.74 Mbit/s
95th percentile per-packet one-way delay: 251.966 ms
Loss rate: 10.78%
-- Flow 1:
Average throughput: 304.74 Mbit/s
95th percentile per-packet one-way delay: 251.966 ms
Loss rate: 10.78%
```

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

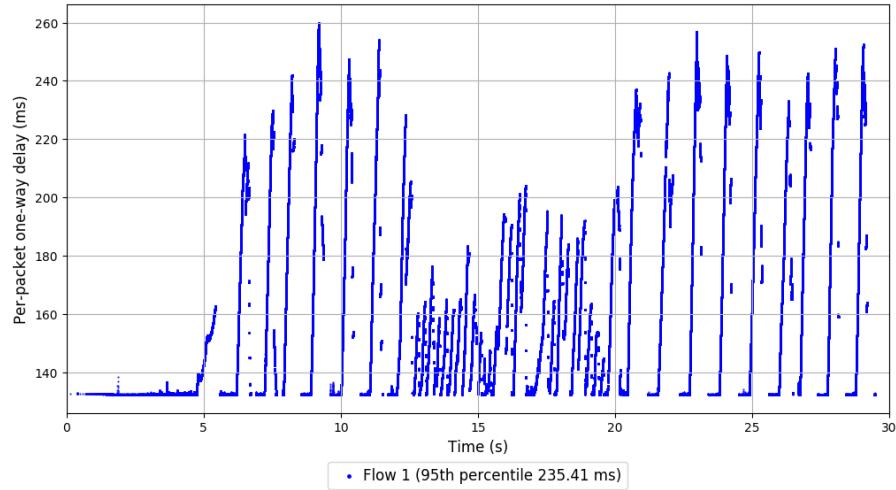
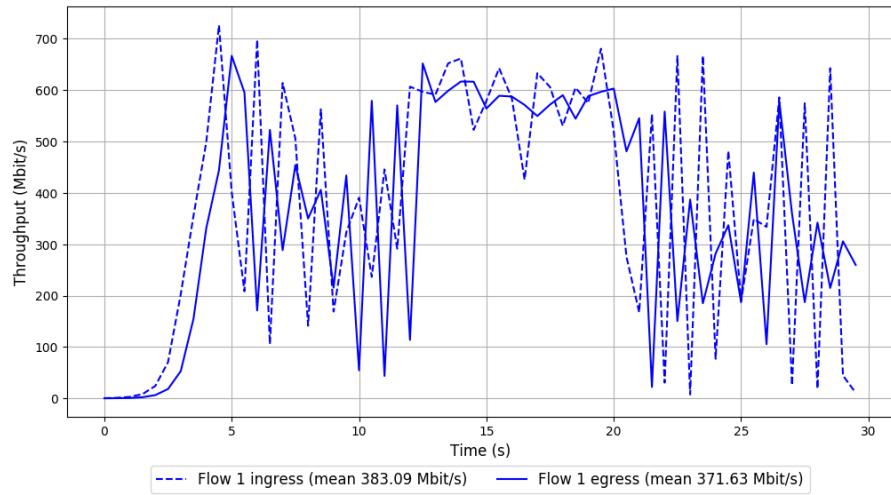


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 10:20:14
End at: 2019-07-12 10:20:44
Local clock offset: -0.035 ms
Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2019-07-12 13:05:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 371.63 Mbit/s
95th percentile per-packet one-way delay: 235.415 ms
Loss rate: 3.86%
-- Flow 1:
Average throughput: 371.63 Mbit/s
95th percentile per-packet one-way delay: 235.415 ms
Loss rate: 3.86%
```

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

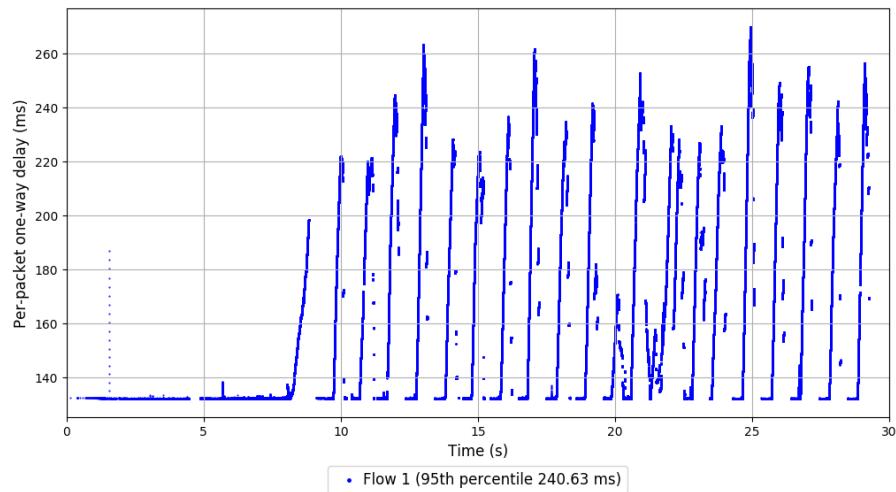
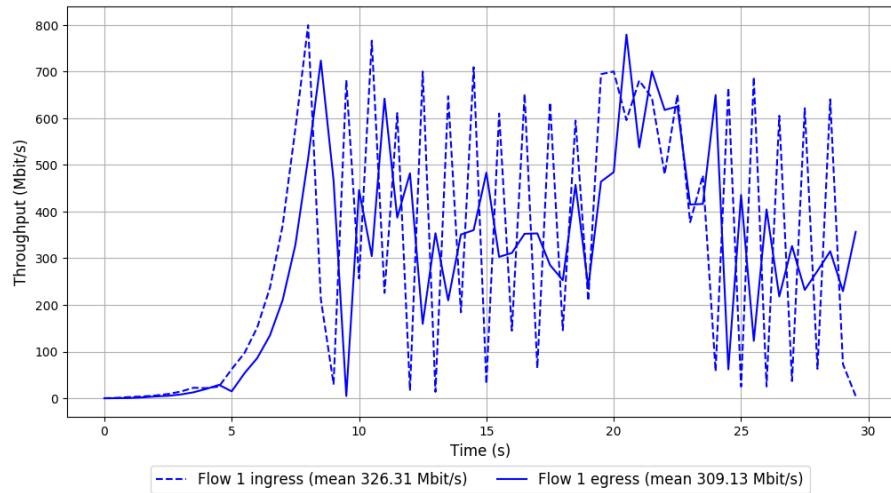


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 10:55:54
End at: 2019-07-12 10:56:24
Local clock offset: -0.105 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-07-12 13:05:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 309.13 Mbit/s
95th percentile per-packet one-way delay: 240.635 ms
Loss rate: 6.89%
-- Flow 1:
Average throughput: 309.13 Mbit/s
95th percentile per-packet one-way delay: 240.635 ms
Loss rate: 6.89%
```

Run 4: Report of Muses\_DecisionTreeH0 — Data Link

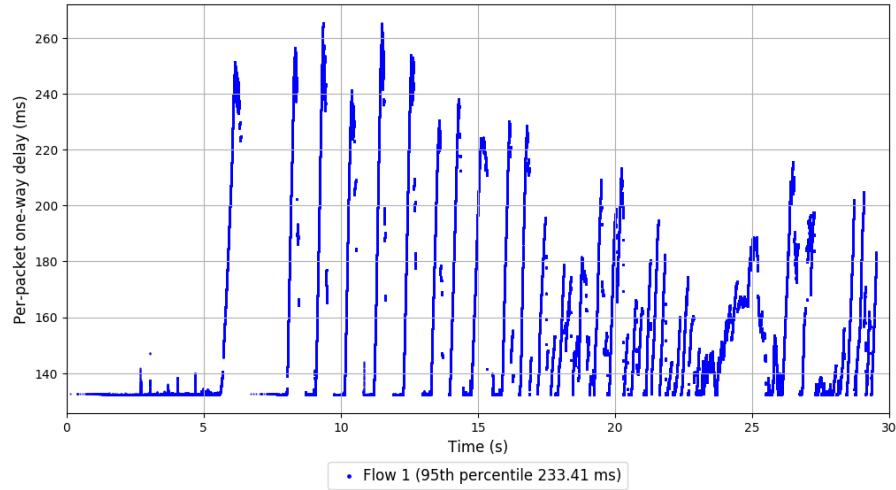
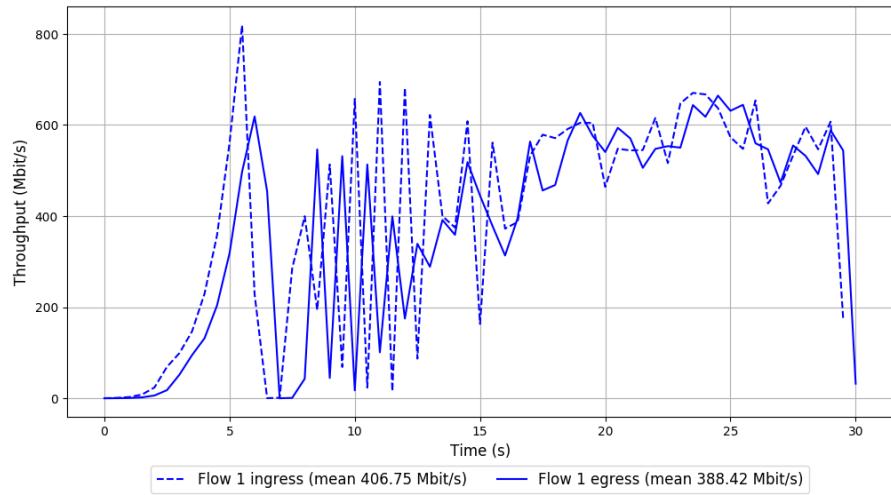


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 11:32:19
End at: 2019-07-12 11:32:49
Local clock offset: 0.069 ms
Remote clock offset: 0.299 ms

# Below is generated by plot.py at 2019-07-12 13:06:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 388.42 Mbit/s
95th percentile per-packet one-way delay: 233.405 ms
Loss rate: 5.30%
-- Flow 1:
Average throughput: 388.42 Mbit/s
95th percentile per-packet one-way delay: 233.405 ms
Loss rate: 5.30%
```

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

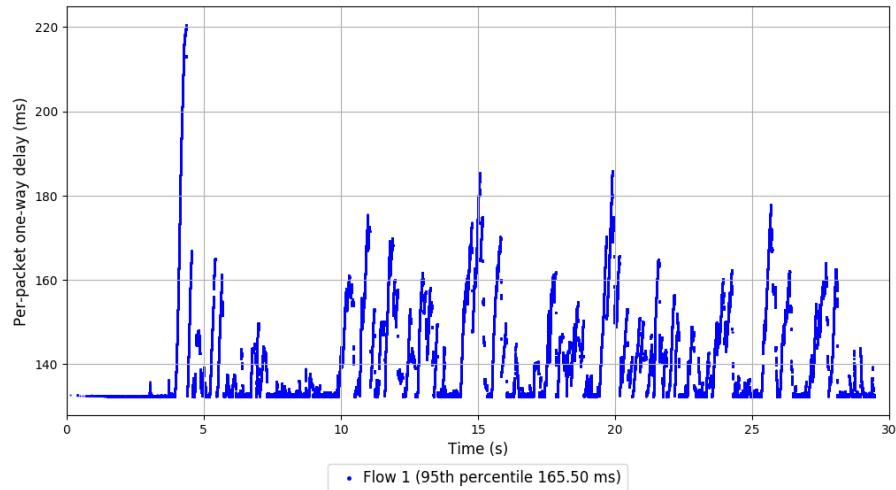
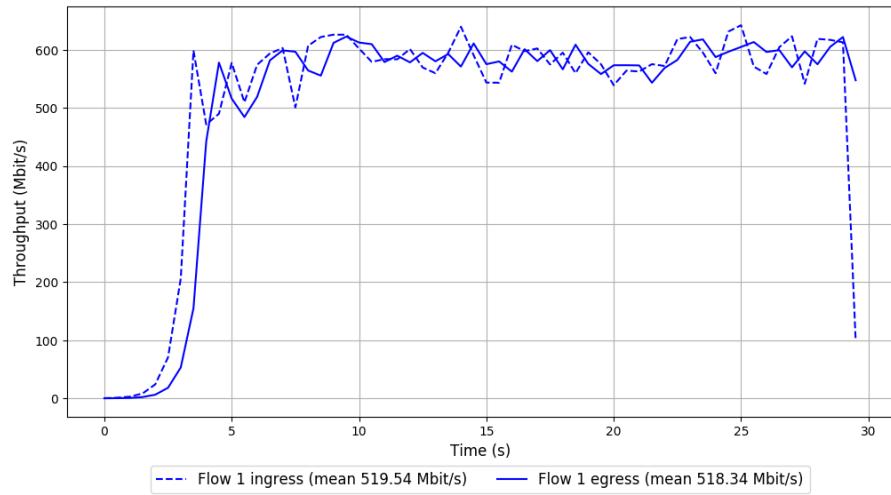


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 09:17:20
End at: 2019-07-12 09:17:50
Local clock offset: -0.39 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-07-12 13:08:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 518.34 Mbit/s
95th percentile per-packet one-way delay: 165.504 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 518.34 Mbit/s
95th percentile per-packet one-way delay: 165.504 ms
Loss rate: 1.13%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

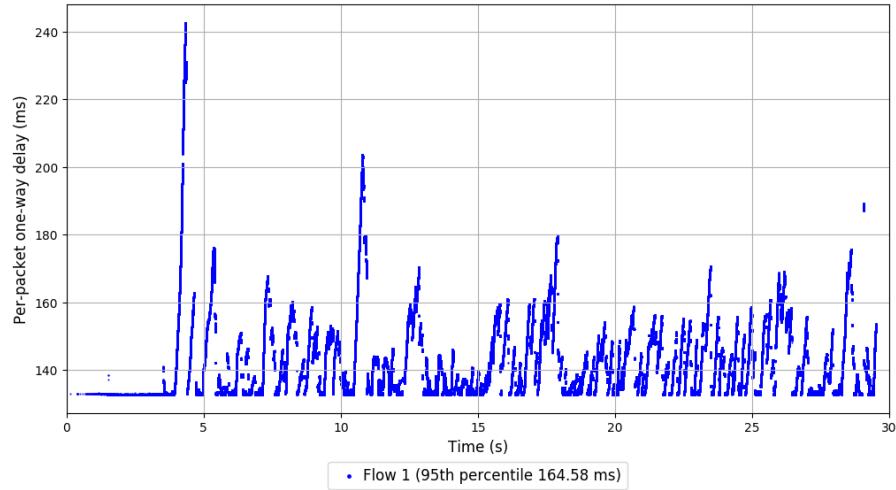
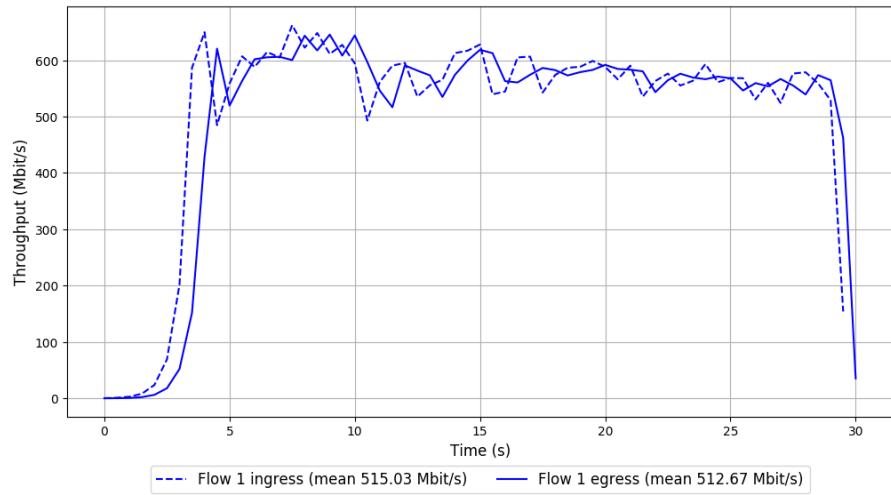


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 09:53:27
End at: 2019-07-12 09:53:57
Local clock offset: 0.062 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-07-12 13:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 512.67 Mbit/s
95th percentile per-packet one-way delay: 164.576 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 512.67 Mbit/s
95th percentile per-packet one-way delay: 164.576 ms
Loss rate: 1.35%
```

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

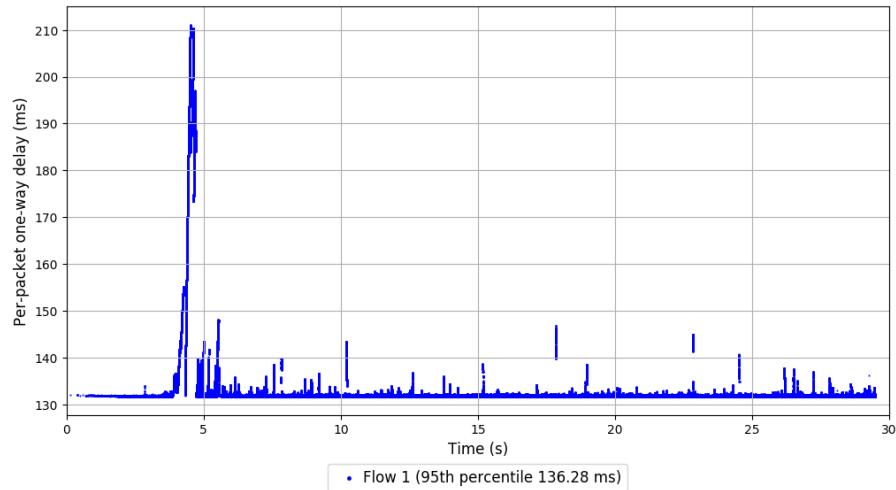
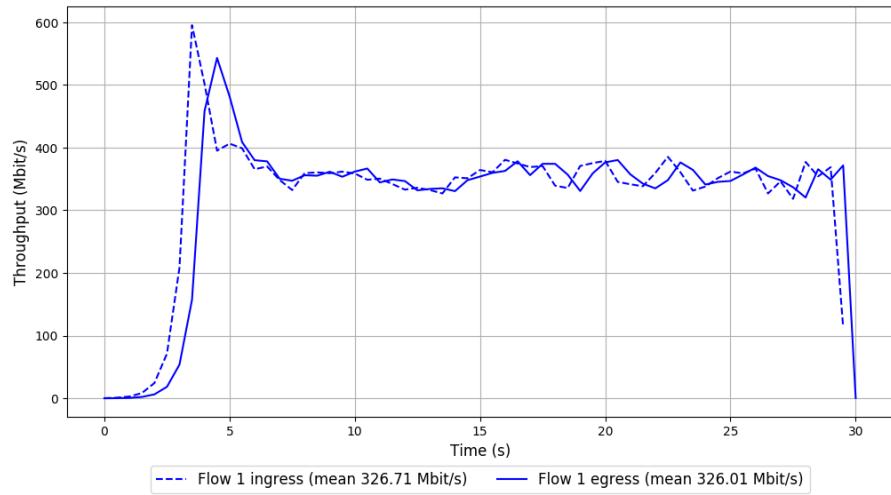


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 10:29:28
End at: 2019-07-12 10:29:58
Local clock offset: -0.335 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-07-12 13:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.01 Mbit/s
95th percentile per-packet one-way delay: 136.281 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 326.01 Mbit/s
95th percentile per-packet one-way delay: 136.281 ms
Loss rate: 1.11%
```

Run 3: Report of Muses\_DecisionTreeR0 — Data Link

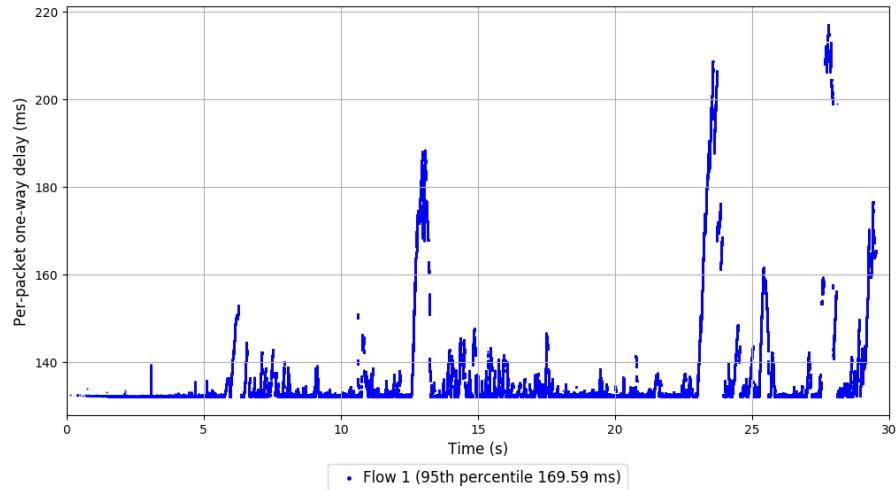
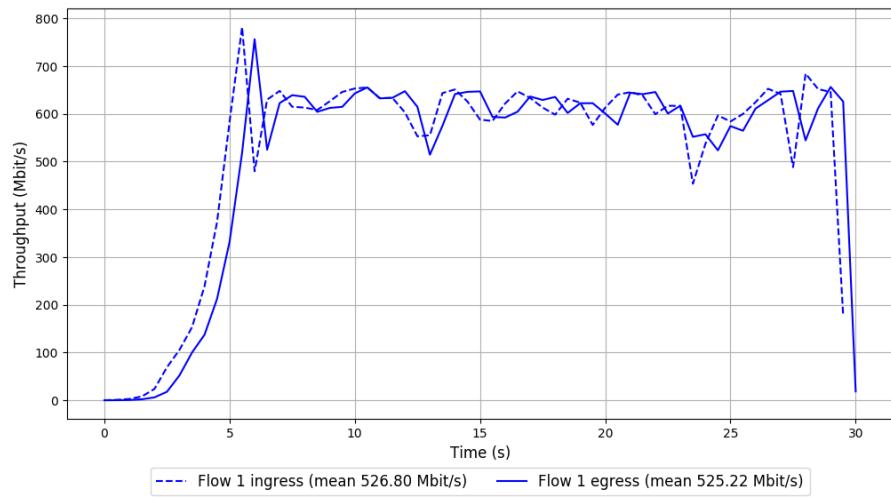


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 11:05:15
End at: 2019-07-12 11:05:45
Local clock offset: -0.451 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-07-12 13:13:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 525.22 Mbit/s
95th percentile per-packet one-way delay: 169.594 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 525.22 Mbit/s
95th percentile per-packet one-way delay: 169.594 ms
Loss rate: 1.19%
```

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

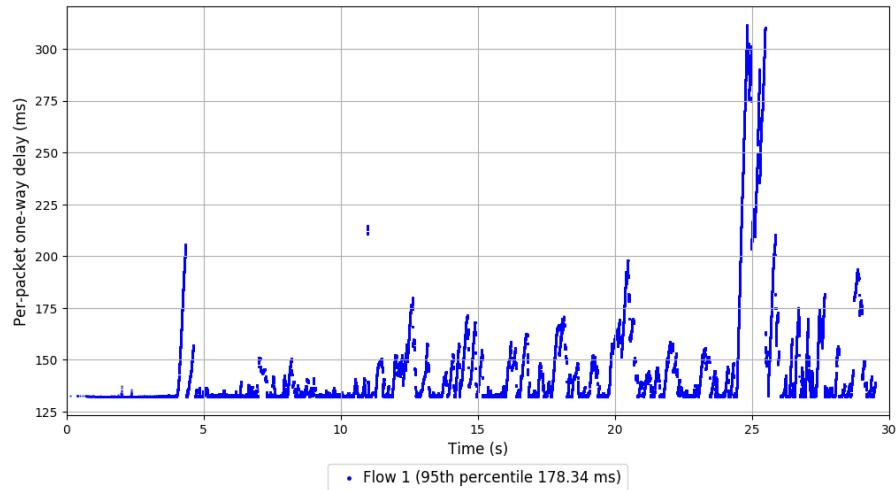
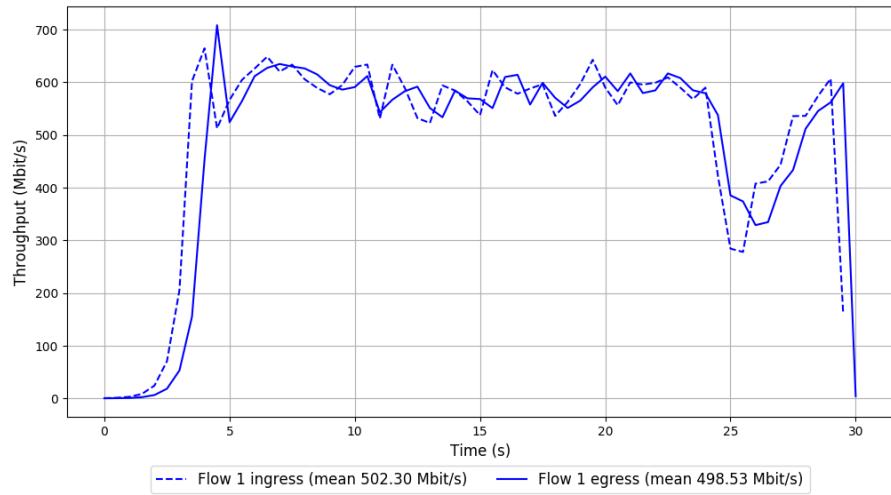


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 11:41:45
End at: 2019-07-12 11:42:15
Local clock offset: 0.237 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-07-12 13:13:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 498.53 Mbit/s
95th percentile per-packet one-way delay: 178.339 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 498.53 Mbit/s
95th percentile per-packet one-way delay: 178.339 ms
Loss rate: 1.64%
```

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

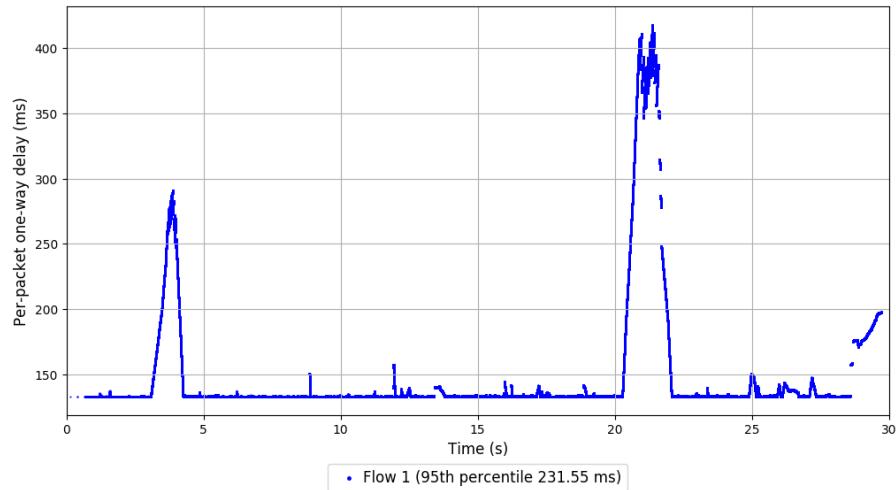
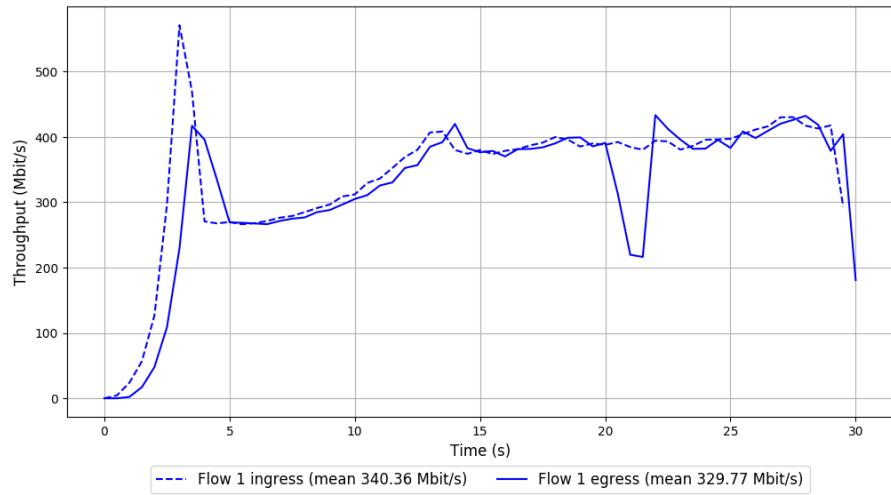


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-07-12 09:00:37
End at: 2019-07-12 09:01:07
Local clock offset: -0.045 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-07-12 13:16:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 329.77 Mbit/s
95th percentile per-packet one-way delay: 231.547 ms
Loss rate: 3.97%
-- Flow 1:
Average throughput: 329.77 Mbit/s
95th percentile per-packet one-way delay: 231.547 ms
Loss rate: 3.97%
```

Run 1: Report of PCC-Allegro — Data Link

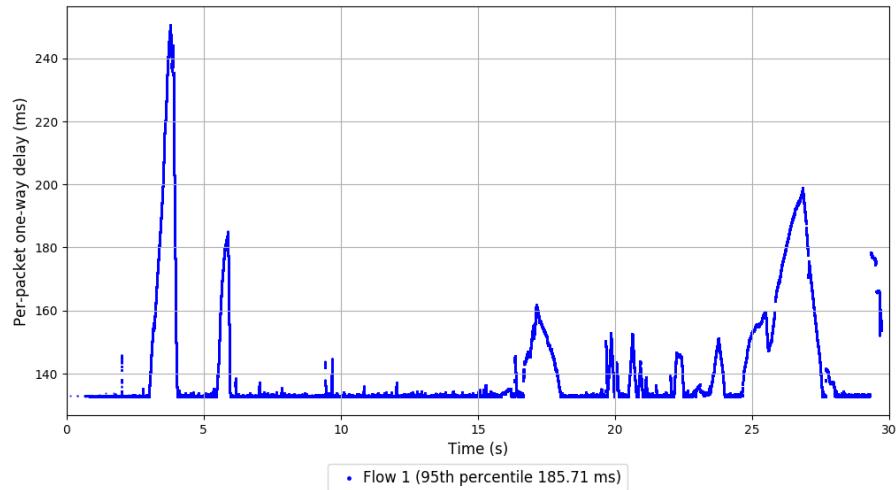
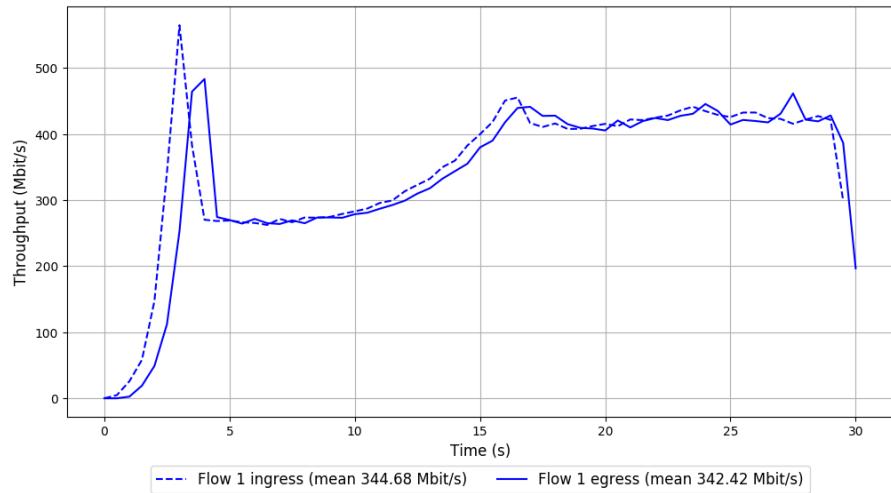


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-07-12 09:36:57
End at: 2019-07-12 09:37:27
Local clock offset: -0.053 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-07-12 13:17:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.42 Mbit/s
95th percentile per-packet one-way delay: 185.712 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 342.42 Mbit/s
95th percentile per-packet one-way delay: 185.712 ms
Loss rate: 1.54%
```

Run 2: Report of PCC-Allegro — Data Link

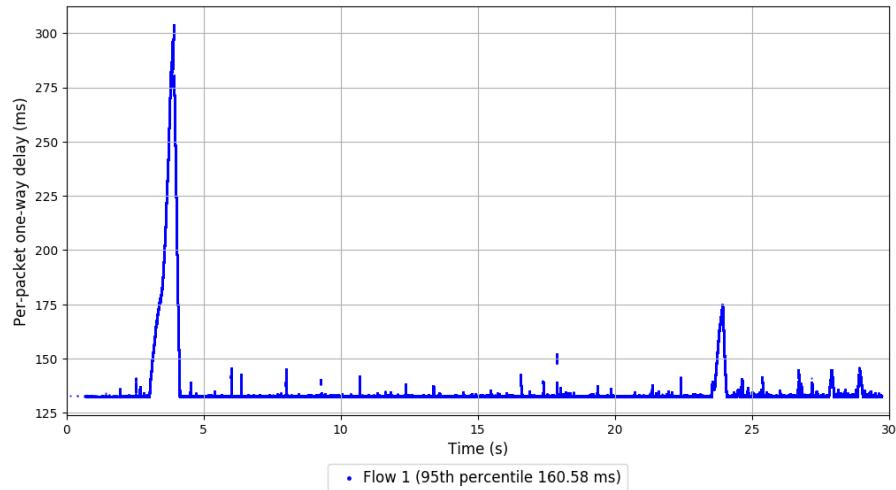
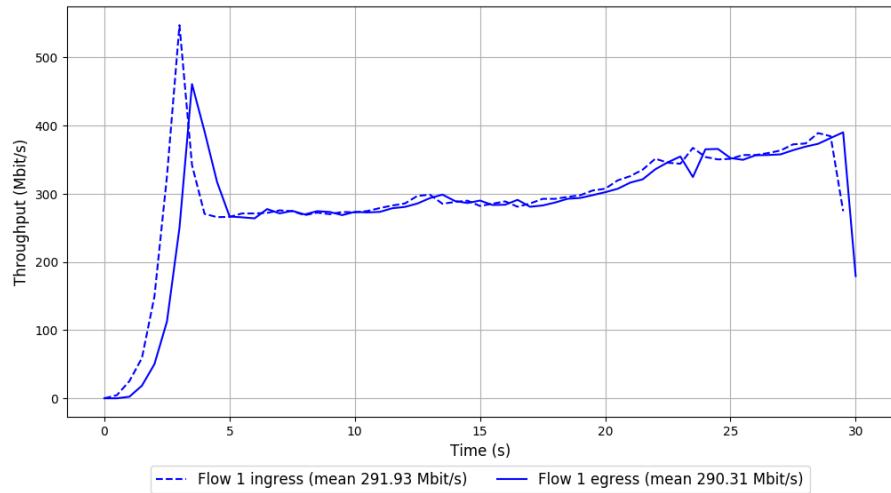


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-07-12 10:13:08
End at: 2019-07-12 10:13:38
Local clock offset: 0.073 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-07-12 13:17:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 290.31 Mbit/s
95th percentile per-packet one-way delay: 160.581 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 290.31 Mbit/s
95th percentile per-packet one-way delay: 160.581 ms
Loss rate: 1.44%
```

Run 3: Report of PCC-Allegro — Data Link

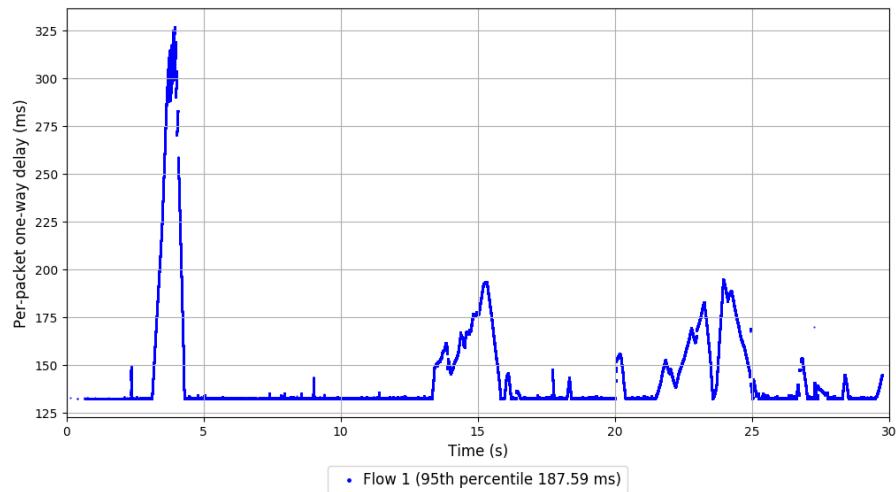
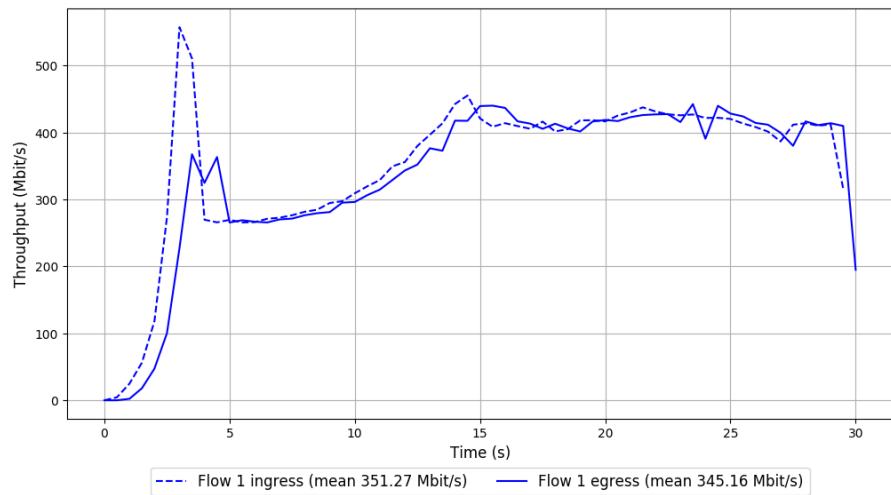


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-07-12 10:48:31
End at: 2019-07-12 10:49:01
Local clock offset: -0.308 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-07-12 13:21:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 345.16 Mbit/s
95th percentile per-packet one-way delay: 187.586 ms
Loss rate: 2.62%
-- Flow 1:
Average throughput: 345.16 Mbit/s
95th percentile per-packet one-way delay: 187.586 ms
Loss rate: 2.62%
```

Run 4: Report of PCC-Allegro — Data Link

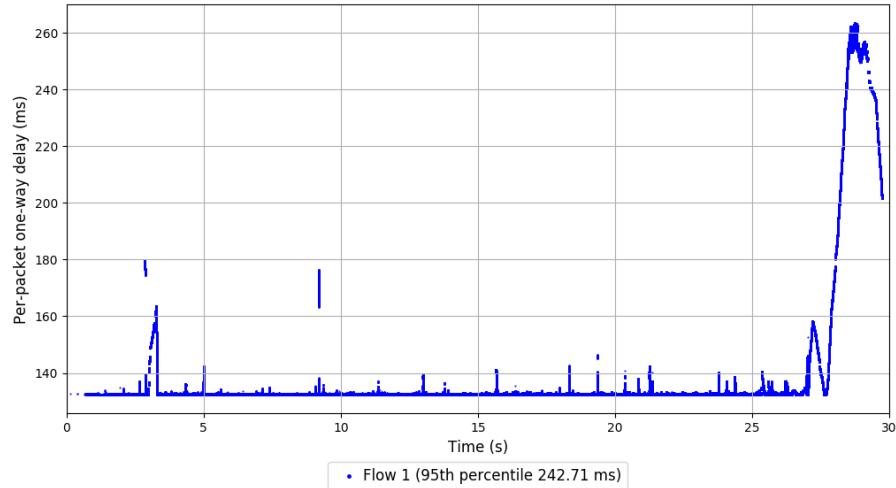
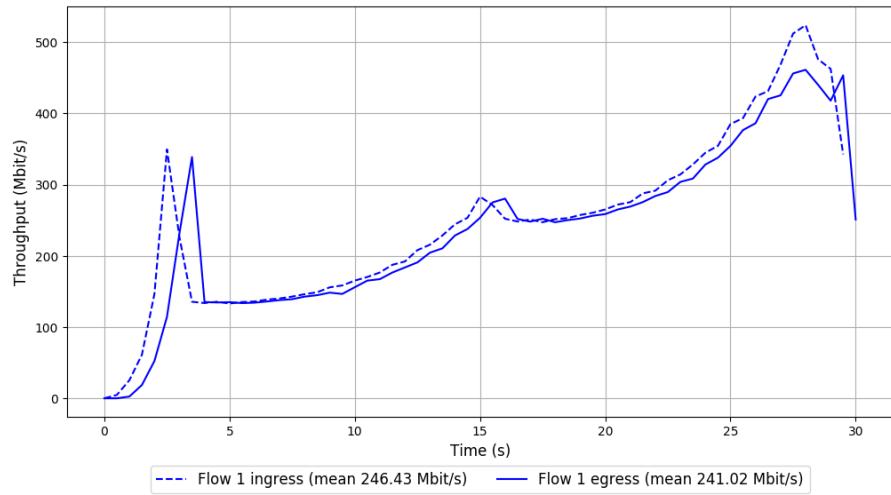


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-07-12 11:24:53
End at: 2019-07-12 11:25:23
Local clock offset: -0.41 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-07-12 13:21:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 241.02 Mbit/s
95th percentile per-packet one-way delay: 242.707 ms
Loss rate: 3.06%
-- Flow 1:
Average throughput: 241.02 Mbit/s
95th percentile per-packet one-way delay: 242.707 ms
Loss rate: 3.06%
```

Run 5: Report of PCC-Allegro — Data Link

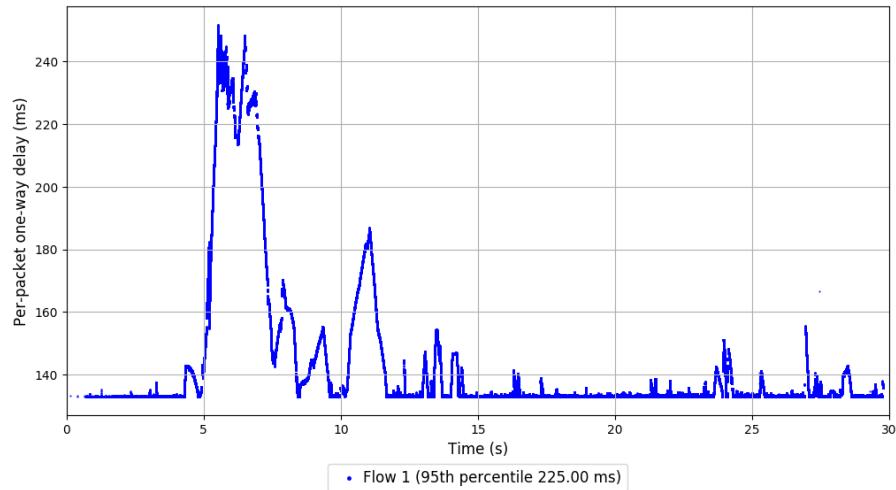
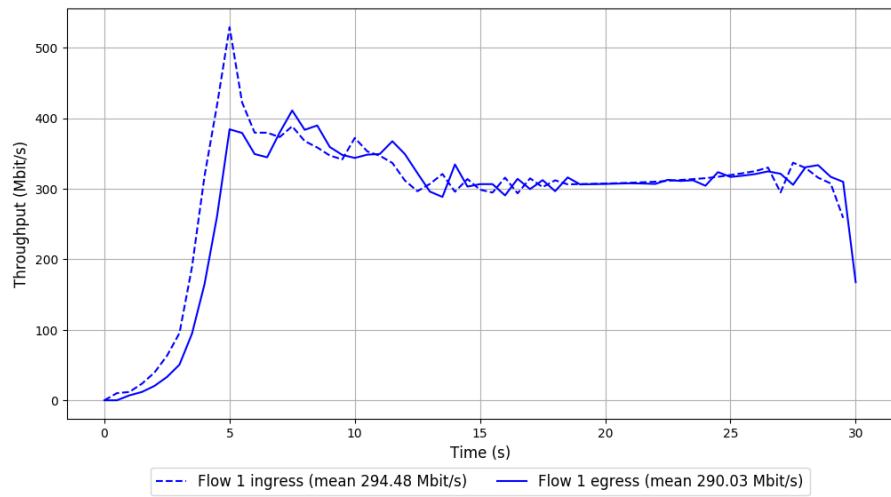


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-07-12 09:12:21
End at: 2019-07-12 09:12:51
Local clock offset: 0.129 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-07-12 13:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 290.03 Mbit/s
95th percentile per-packet one-way delay: 225.004 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 290.03 Mbit/s
95th percentile per-packet one-way delay: 225.004 ms
Loss rate: 2.39%
```

Run 1: Report of PCC-Expr — Data Link

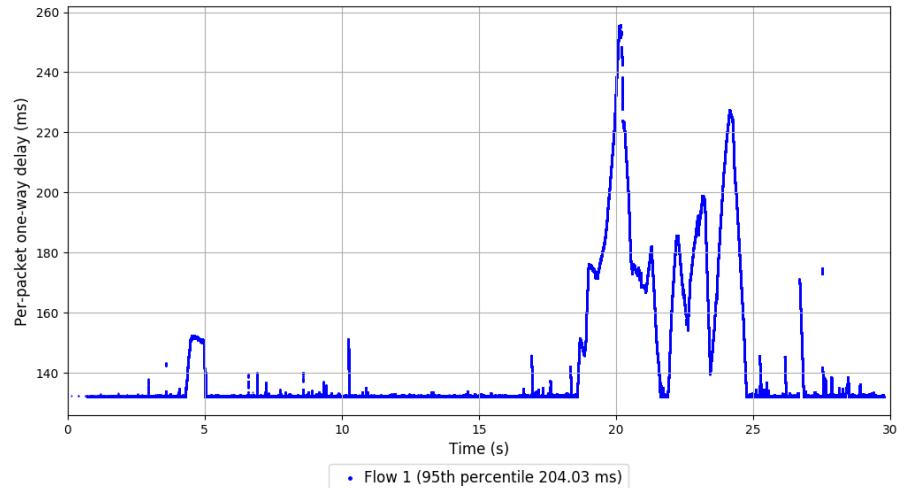
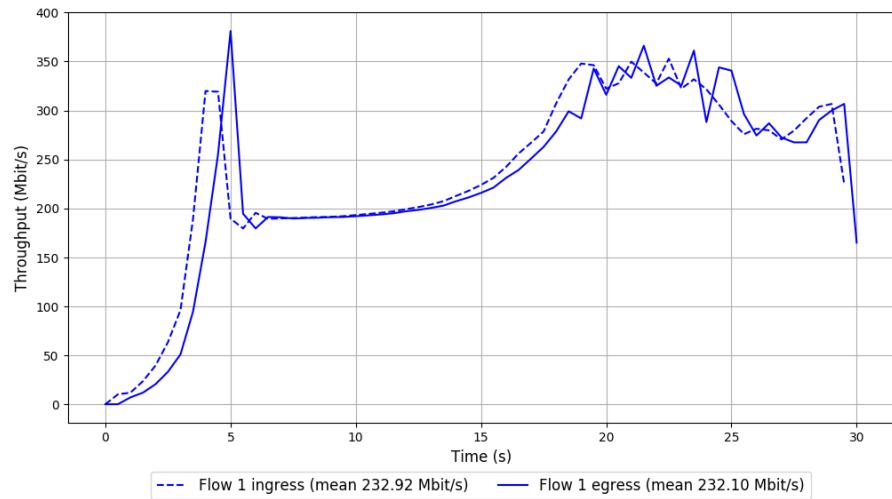


Run 2: Statistics of PCC-Expr

```
Start at: 2019-07-12 09:48:36
End at: 2019-07-12 09:49:06
Local clock offset: 0.123 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-07-12 13:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.10 Mbit/s
95th percentile per-packet one-way delay: 204.026 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 232.10 Mbit/s
95th percentile per-packet one-way delay: 204.026 ms
Loss rate: 1.23%
```

Run 2: Report of PCC-Expr — Data Link

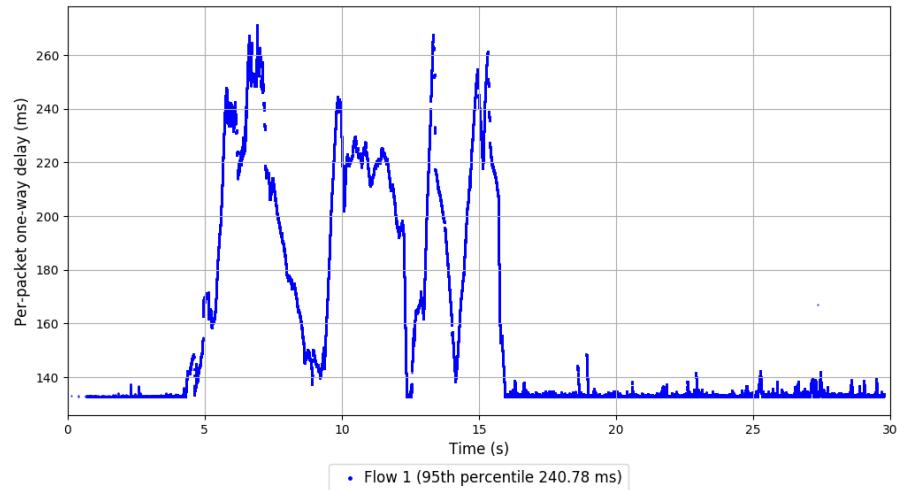
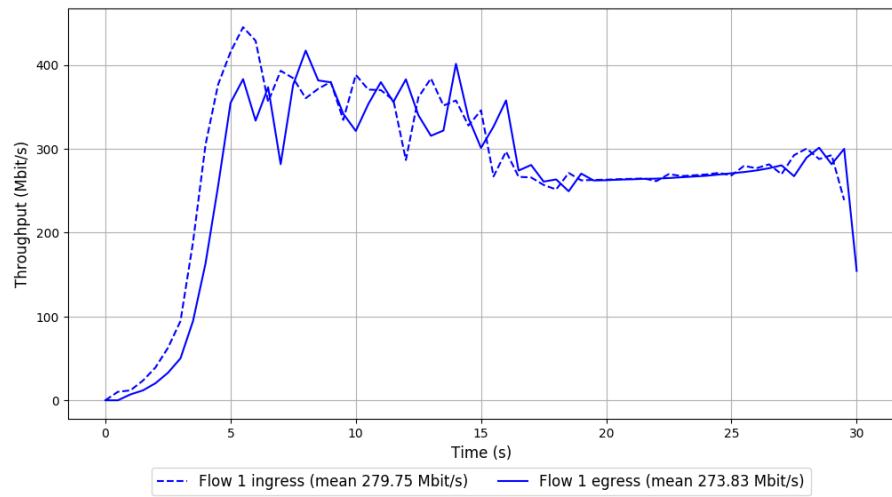


Run 3: Statistics of PCC-Expr

```
Start at: 2019-07-12 10:24:36
End at: 2019-07-12 10:25:06
Local clock offset: -0.333 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-07-12 13:23:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 273.83 Mbit/s
95th percentile per-packet one-way delay: 240.780 ms
Loss rate: 2.99%
-- Flow 1:
Average throughput: 273.83 Mbit/s
95th percentile per-packet one-way delay: 240.780 ms
Loss rate: 2.99%
```

Run 3: Report of PCC-Expr — Data Link

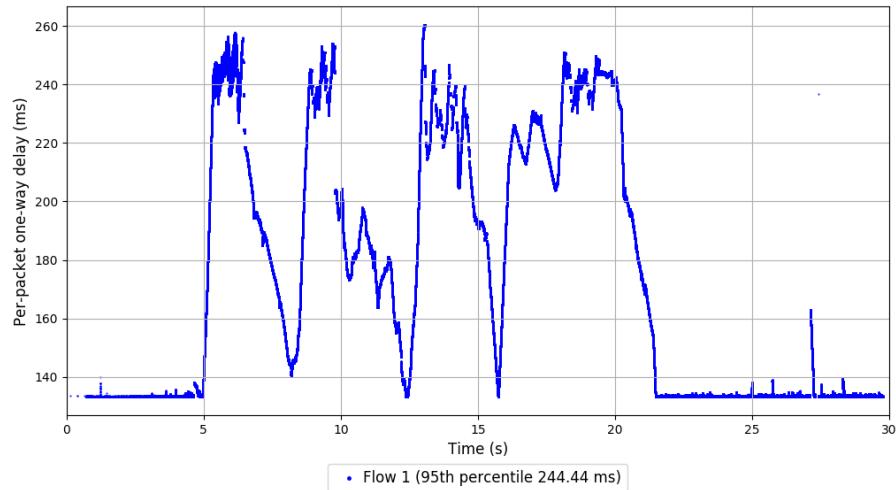
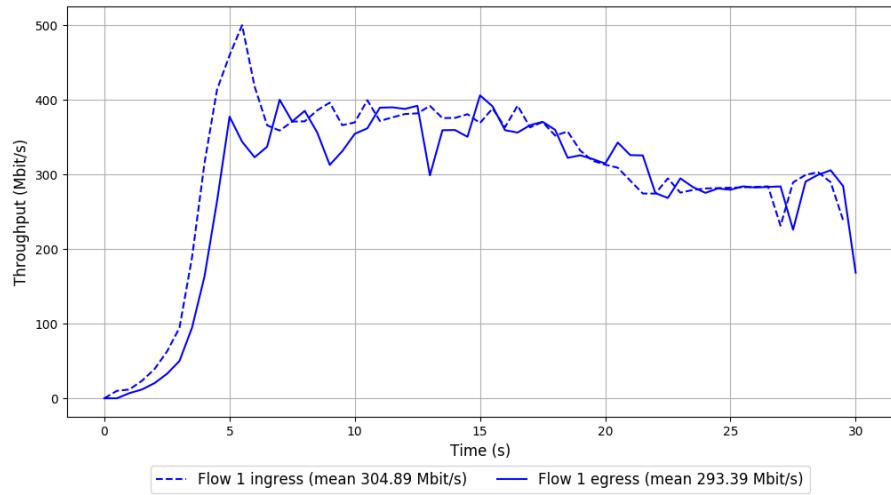


Run 4: Statistics of PCC-Expr

```
Start at: 2019-07-12 11:00:16
End at: 2019-07-12 11:00:46
Local clock offset: 0.364 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2019-07-12 13:27:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.39 Mbit/s
95th percentile per-packet one-way delay: 244.435 ms
Loss rate: 4.63%
-- Flow 1:
Average throughput: 293.39 Mbit/s
95th percentile per-packet one-way delay: 244.435 ms
Loss rate: 4.63%
```

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

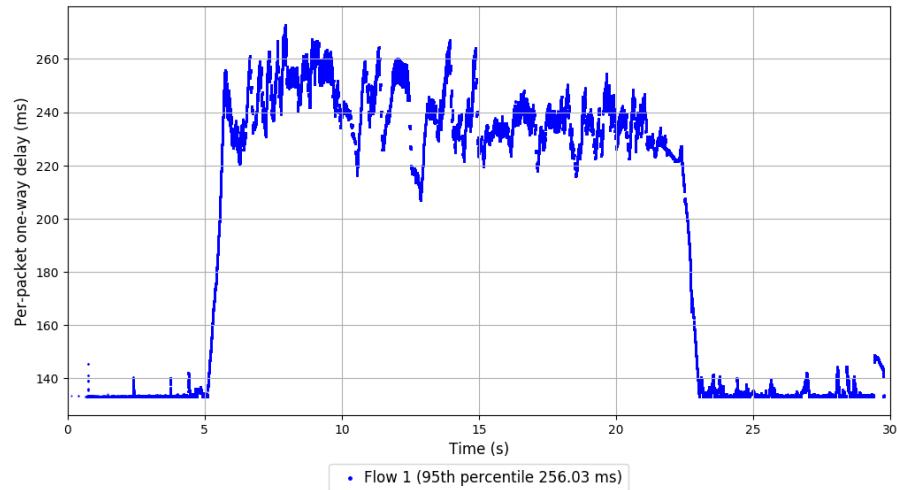
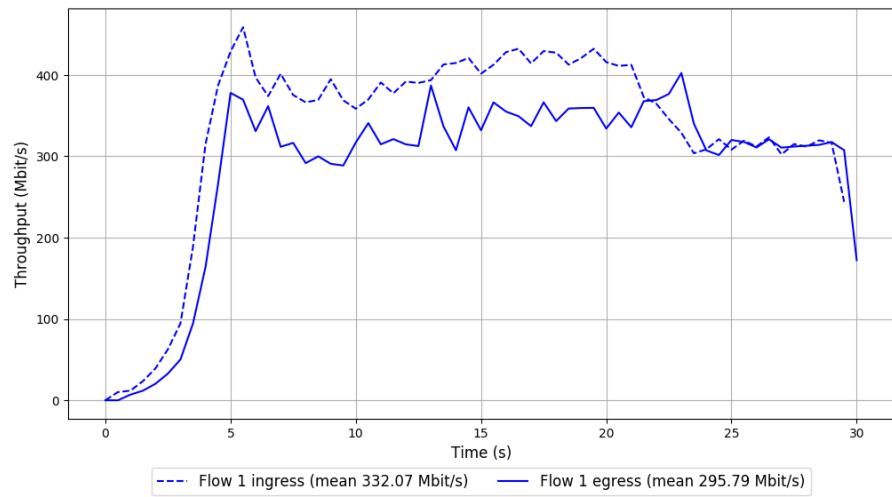


Run 5: Statistics of PCC-Expr

```
Start at: 2019-07-12 11:36:44
End at: 2019-07-12 11:37:14
Local clock offset: -0.025 ms
Remote clock offset: -0.445 ms

# Below is generated by plot.py at 2019-07-12 13:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 295.79 Mbit/s
95th percentile per-packet one-way delay: 256.029 ms
Loss rate: 11.72%
-- Flow 1:
Average throughput: 295.79 Mbit/s
95th percentile per-packet one-way delay: 256.029 ms
Loss rate: 11.72%
```

Run 5: Report of PCC-Expr — Data Link

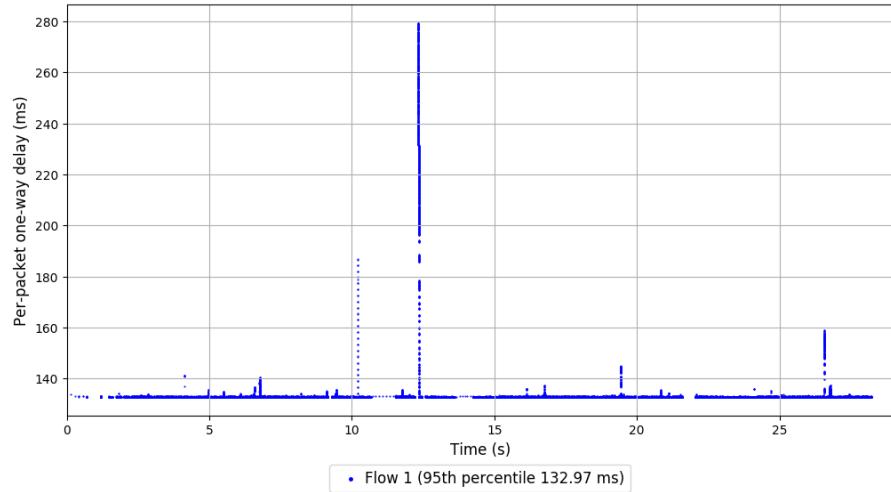
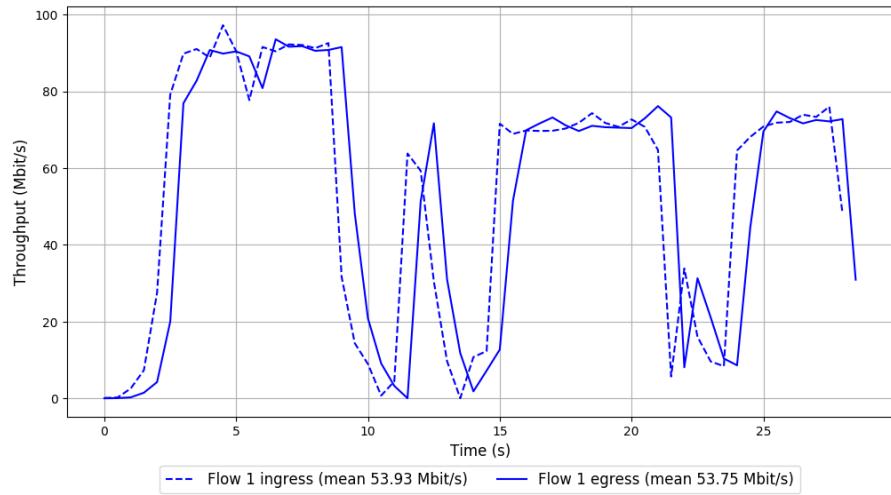


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-07-12 08:51:58
End at: 2019-07-12 08:52:28
Local clock offset: -0.037 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-07-12 13:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.75 Mbit/s
95th percentile per-packet one-way delay: 132.968 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 53.75 Mbit/s
95th percentile per-packet one-way delay: 132.968 ms
Loss rate: 1.28%
```

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

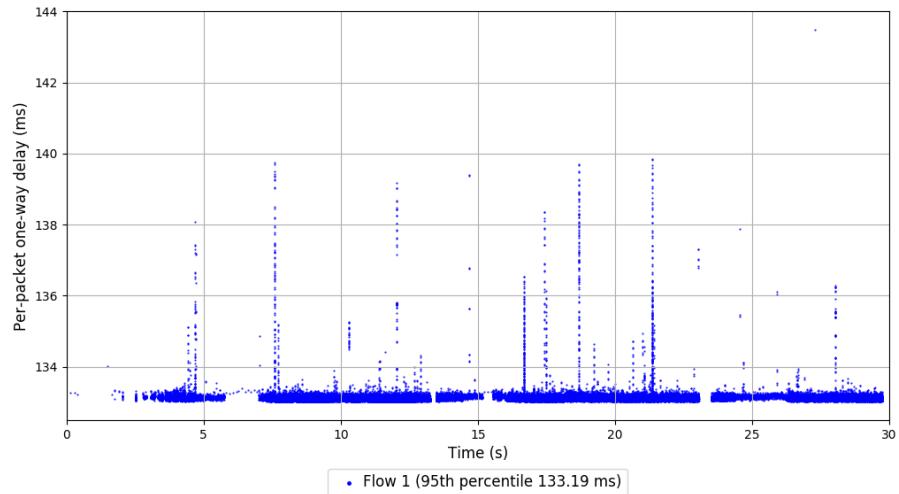
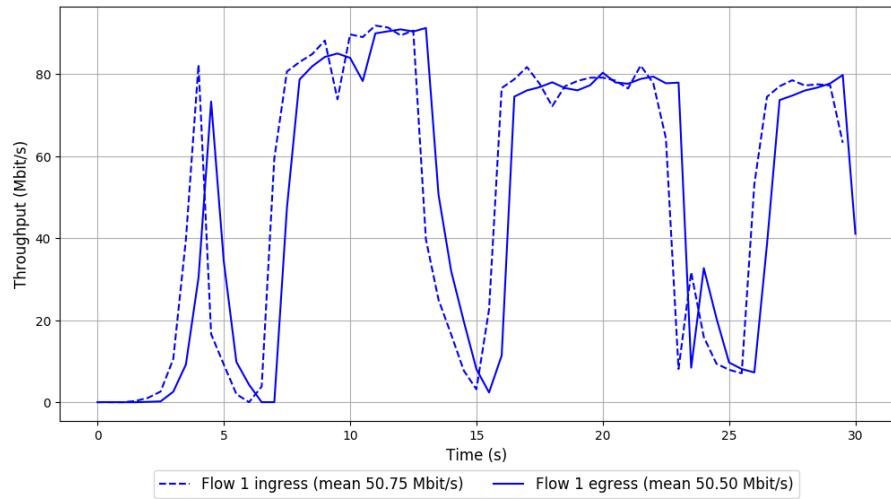


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-07-12 09:28:22
End at: 2019-07-12 09:28:52
Local clock offset: 0.024 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-07-12 13:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.50 Mbit/s
95th percentile per-packet one-way delay: 133.195 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 50.50 Mbit/s
95th percentile per-packet one-way delay: 133.195 ms
Loss rate: 1.39%
```

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

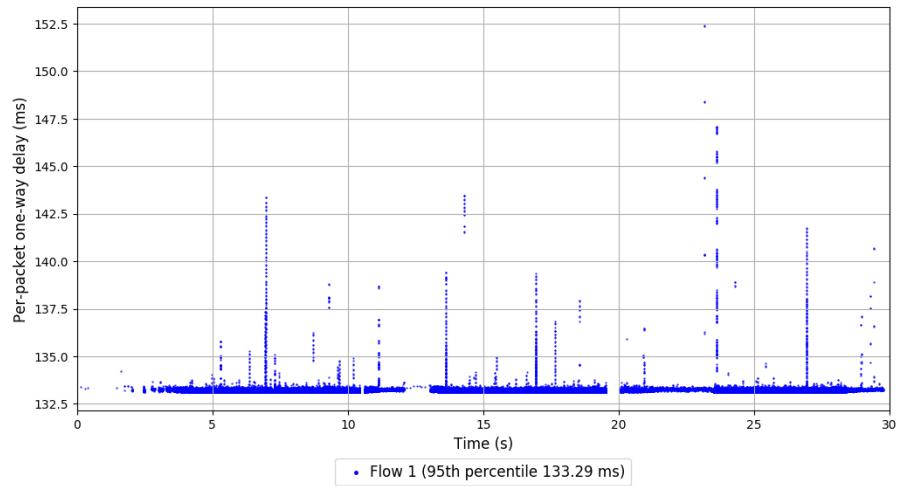
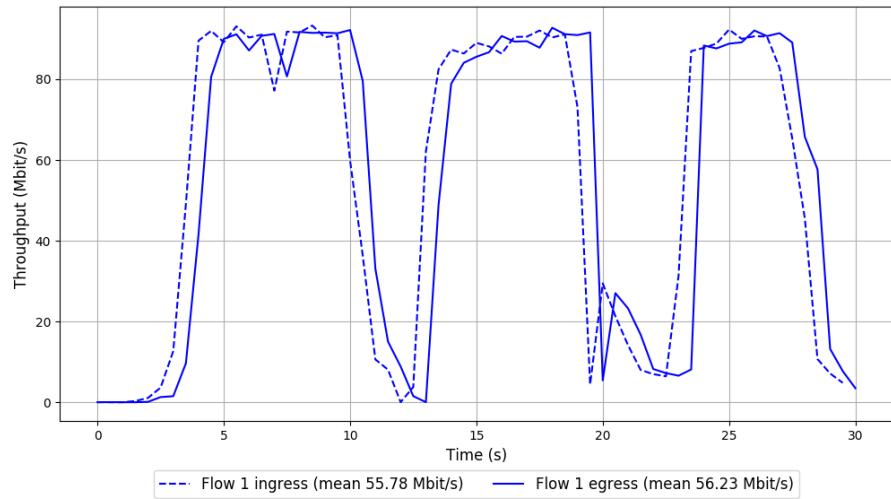


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-07-12 10:04:39
End at: 2019-07-12 10:05:09
Local clock offset: 0.384 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-07-12 13:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.23 Mbit/s
95th percentile per-packet one-way delay: 133.288 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 56.23 Mbit/s
95th percentile per-packet one-way delay: 133.288 ms
Loss rate: 0.09%
```

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

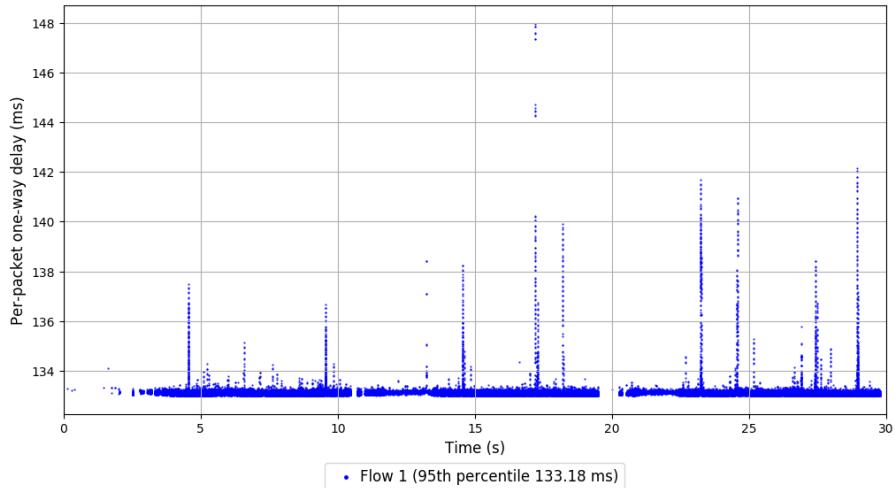
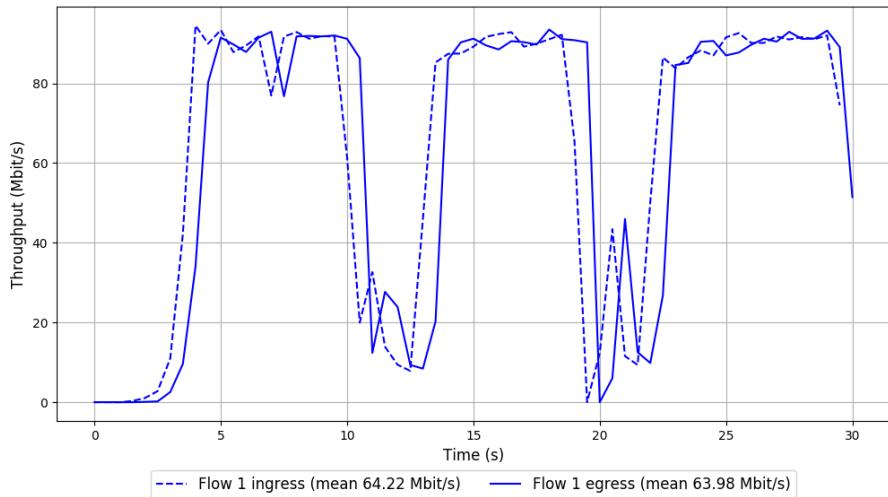


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-07-12 10:39:52
End at: 2019-07-12 10:40:22
Local clock offset: 0.107 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-07-12 13:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.98 Mbit/s
95th percentile per-packet one-way delay: 133.180 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 63.98 Mbit/s
95th percentile per-packet one-way delay: 133.180 ms
Loss rate: 1.25%
```

Run 4: Report of QUIC Cubic — Data Link

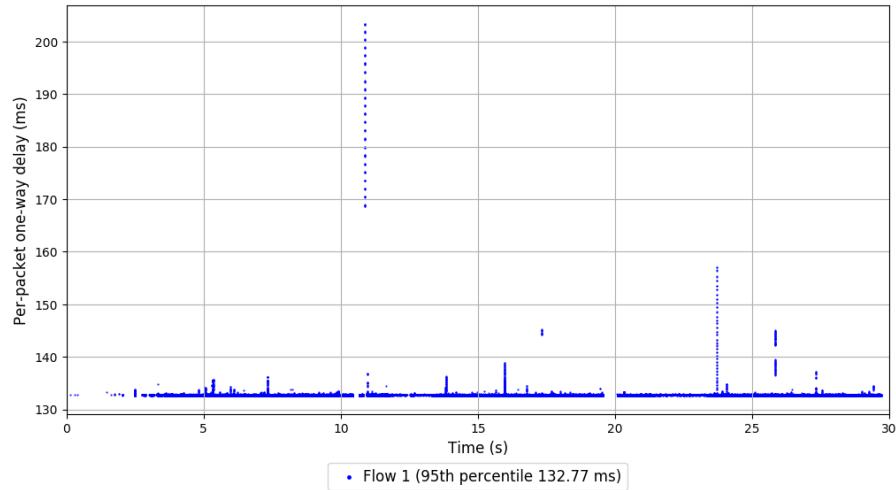
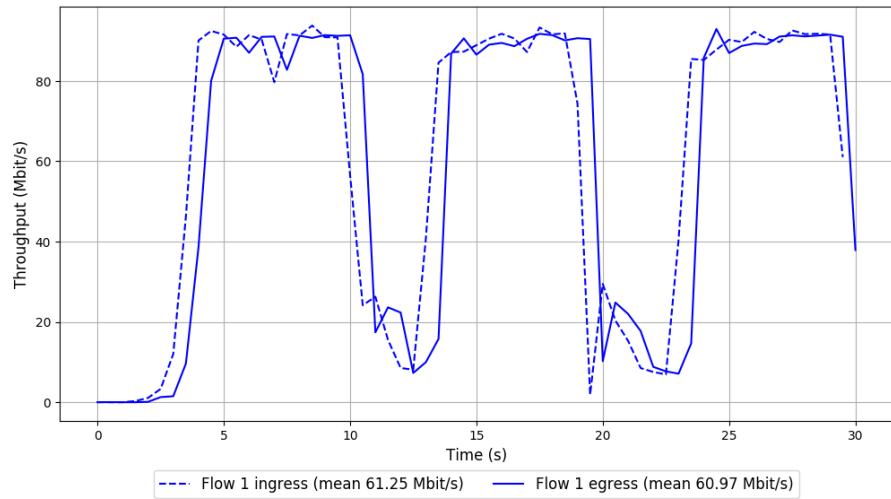


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-07-12 11:16:15
End at: 2019-07-12 11:16:45
Local clock offset: -0.39 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-07-12 13:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.97 Mbit/s
95th percentile per-packet one-way delay: 132.770 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 60.97 Mbit/s
95th percentile per-packet one-way delay: 132.770 ms
Loss rate: 1.34%
```

Run 5: Report of QUIC Cubic — Data Link

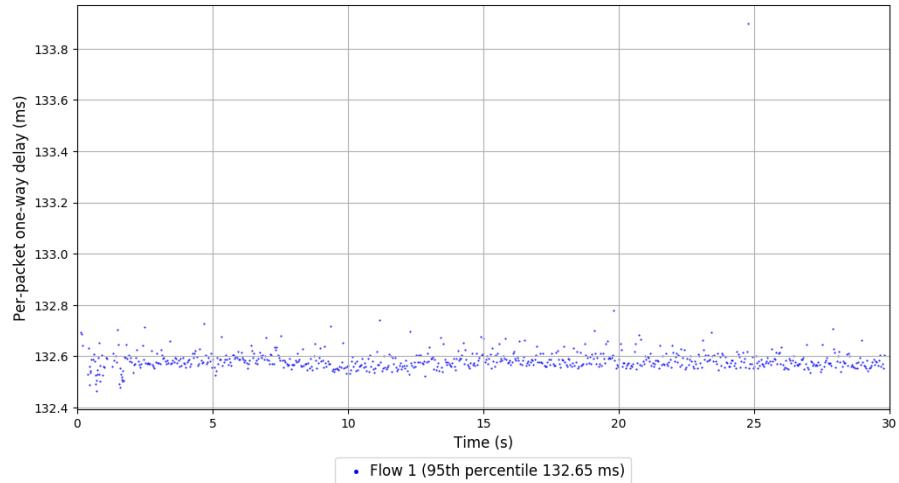
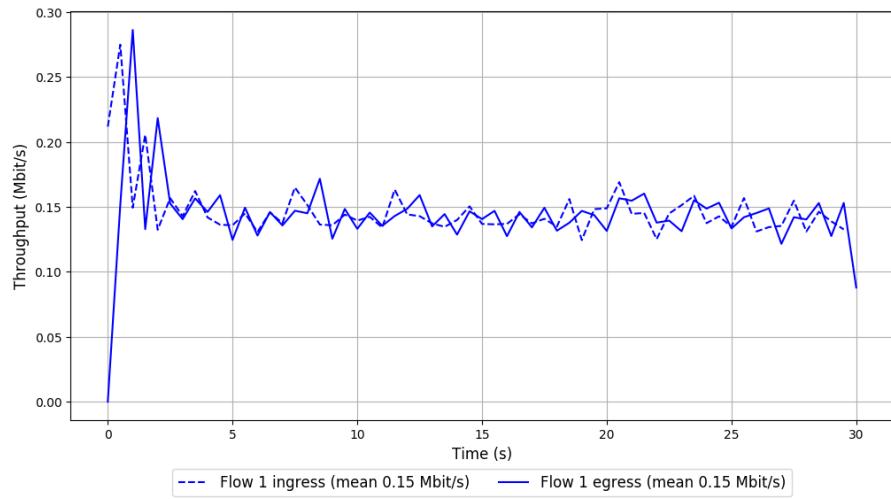


Run 1: Statistics of SCReAM

```
Start at: 2019-07-12 08:56:16
End at: 2019-07-12 08:56:46
Local clock offset: -0.062 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-07-12 13:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.648 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.648 ms
Loss rate: 0.88%
```

Run 1: Report of SCReAM — Data Link

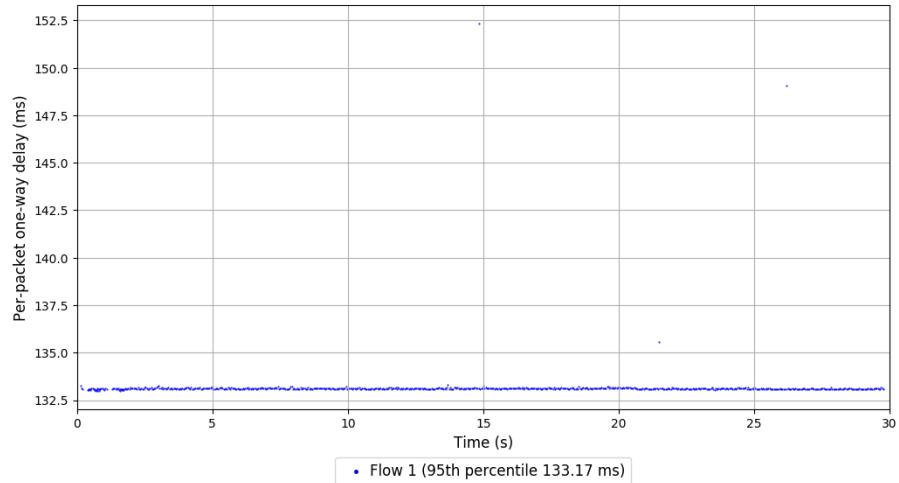
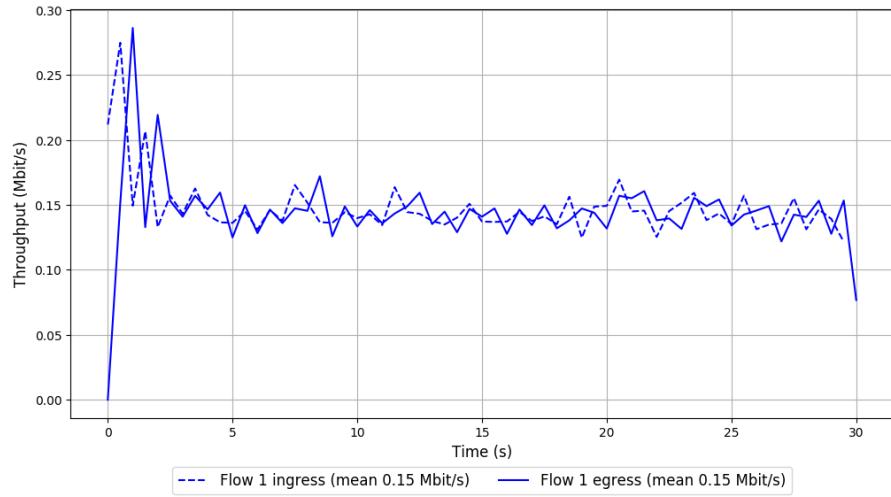


Run 2: Statistics of SCReAM

```
Start at: 2019-07-12 09:32:41
End at: 2019-07-12 09:33:11
Local clock offset: -0.02 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-07-12 13:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.168 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.168 ms
Loss rate: 0.88%
```

## Run 2: Report of SCReAM — Data Link

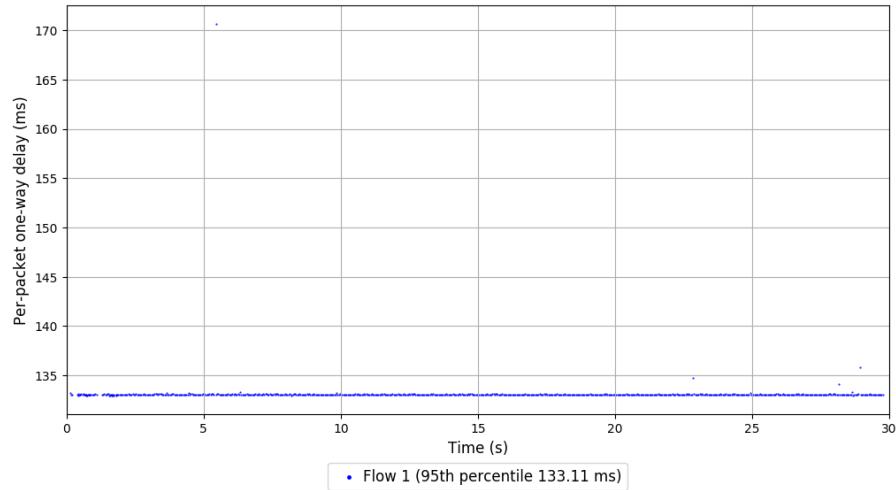
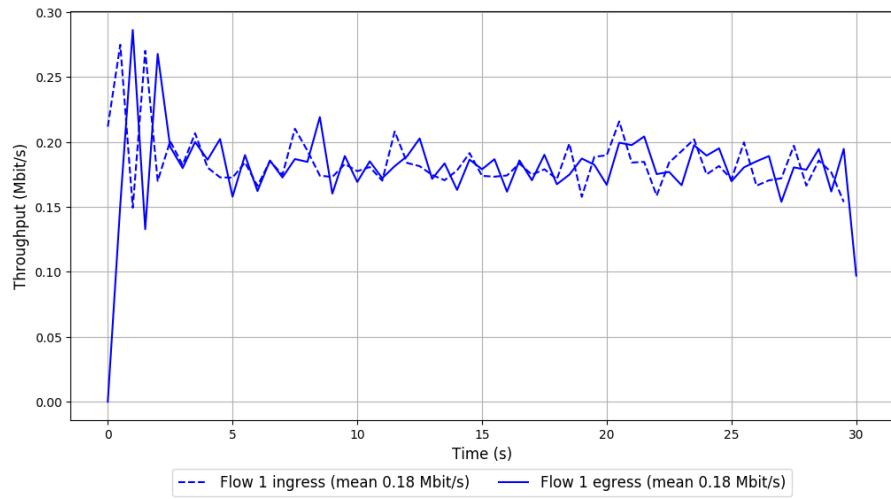


Run 3: Statistics of SCReAM

```
Start at: 2019-07-12 10:08:58
End at: 2019-07-12 10:09:28
Local clock offset: -0.261 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-07-12 13:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 133.114 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 133.114 ms
Loss rate: 0.89%
```

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

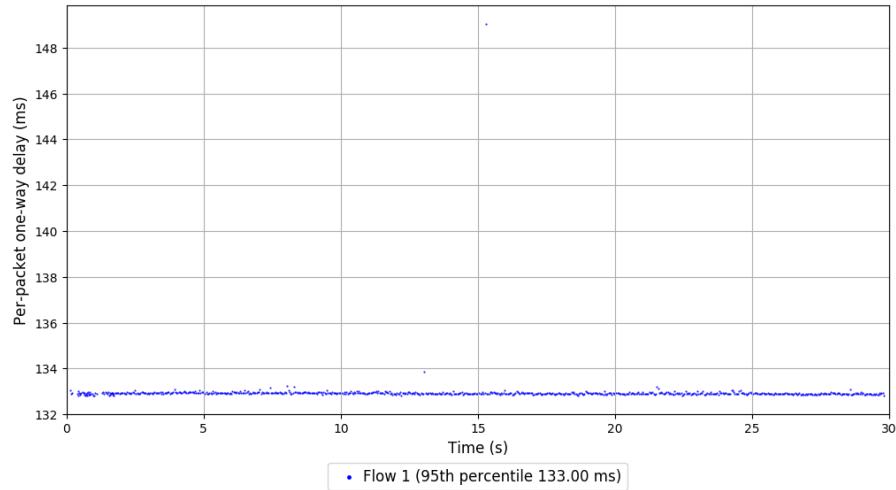
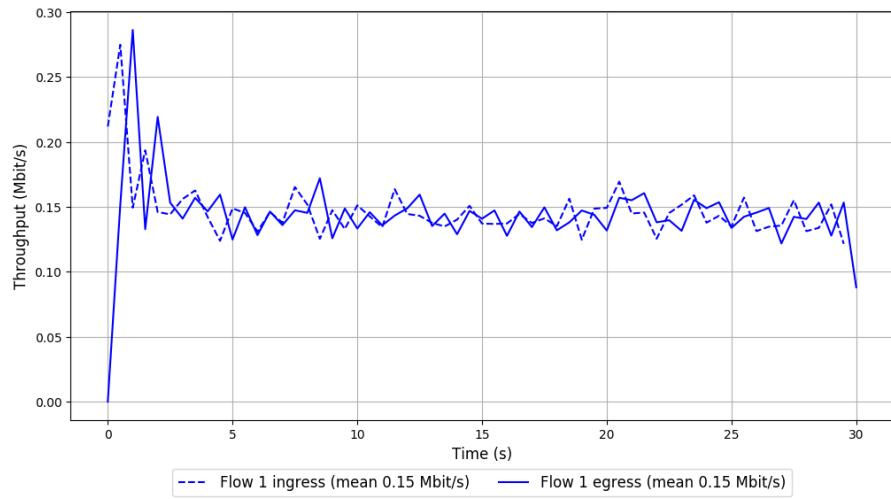


Run 4: Statistics of SCReAM

```
Start at: 2019-07-12 10:44:11
End at: 2019-07-12 10:44:41
Local clock offset: -0.302 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-07-12 13:27:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.002 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.002 ms
Loss rate: 0.75%
```

Run 4: Report of SCReAM — Data Link

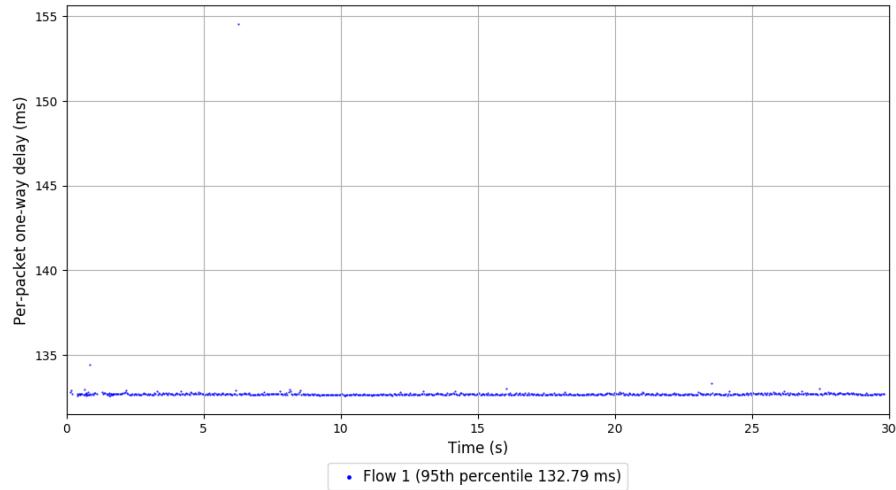
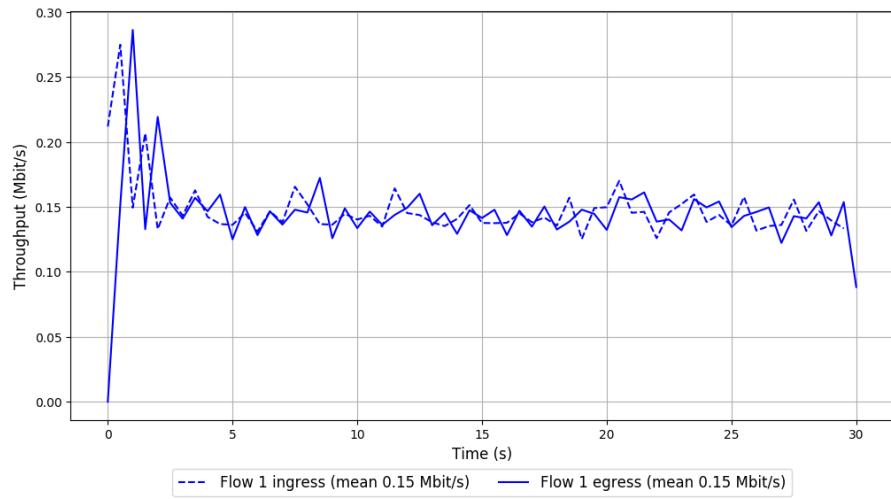


Run 5: Statistics of SCReAM

```
Start at: 2019-07-12 11:20:33
End at: 2019-07-12 11:21:03
Local clock offset: -0.354 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-07-12 13:27:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.794 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.794 ms
Loss rate: 0.88%
```

Run 5: Report of SCReAM — Data Link

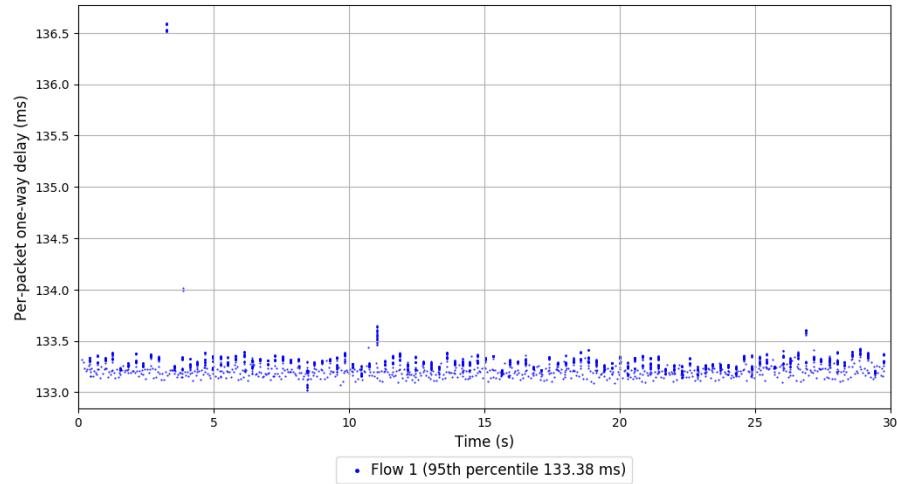
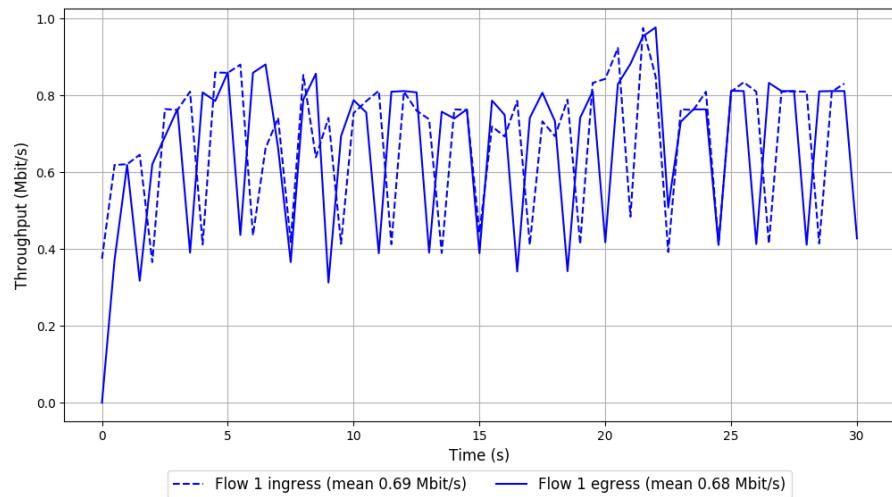


Run 1: Statistics of Sprout

```
Start at: 2019-07-12 09:06:46
End at: 2019-07-12 09:07:16
Local clock offset: -0.039 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-07-12 13:27:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 133.379 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 133.379 ms
Loss rate: 0.99%
```

## Run 1: Report of Sprout — Data Link

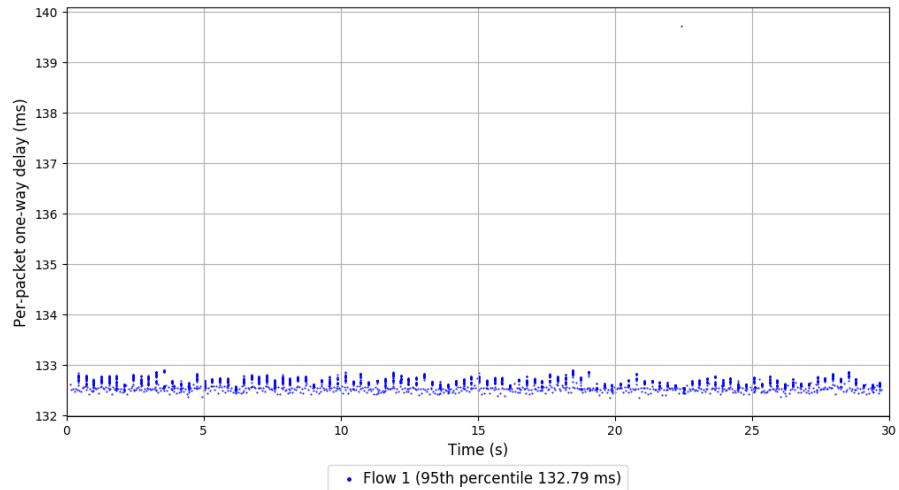
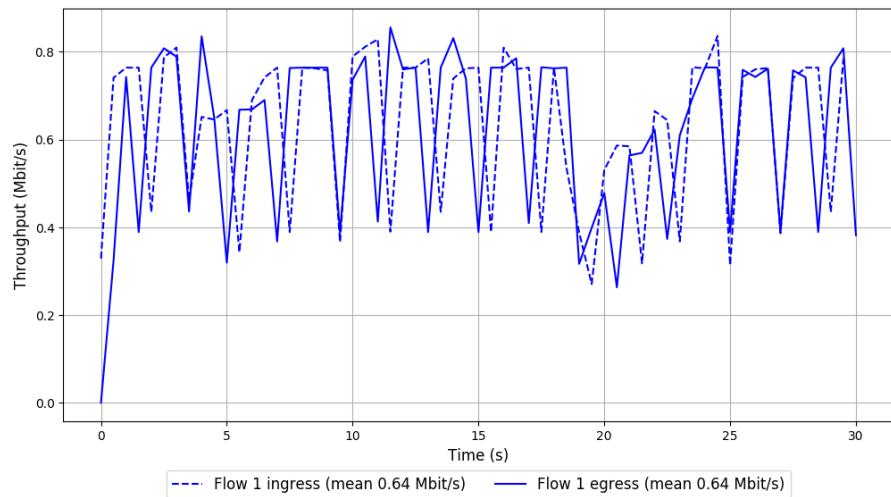


Run 2: Statistics of Sprout

```
Start at: 2019-07-12 09:43:04
End at: 2019-07-12 09:43:34
Local clock offset: -0.062 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-07-12 13:27:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 132.794 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 132.794 ms
Loss rate: 1.07%
```

Run 2: Report of Sprout — Data Link

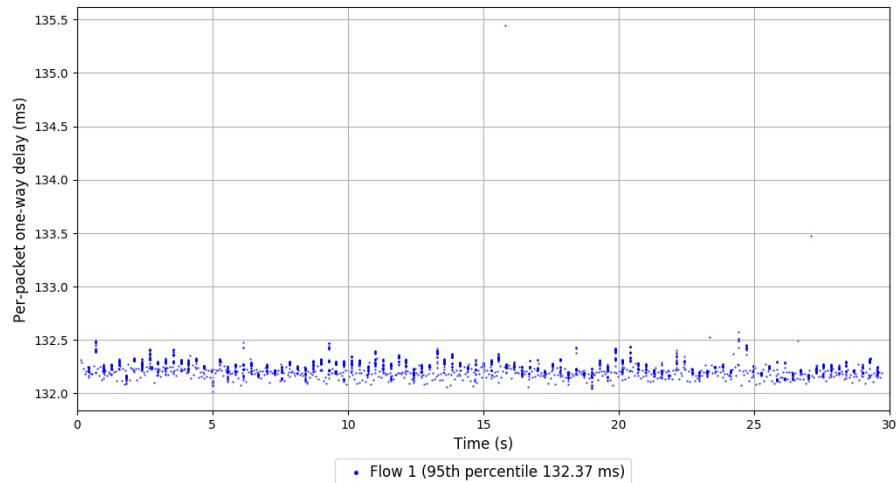
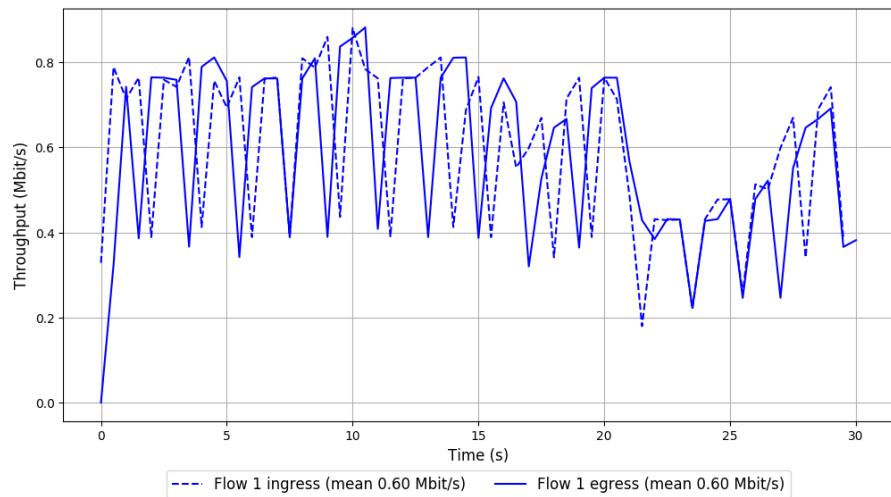


Run 3: Statistics of Sprout

```
Start at: 2019-07-12 10:19:03
End at: 2019-07-12 10:19:33
Local clock offset: -0.007 ms
Remote clock offset: 0.375 ms

# Below is generated by plot.py at 2019-07-12 13:27:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 132.369 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 132.369 ms
Loss rate: 1.07%
```

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

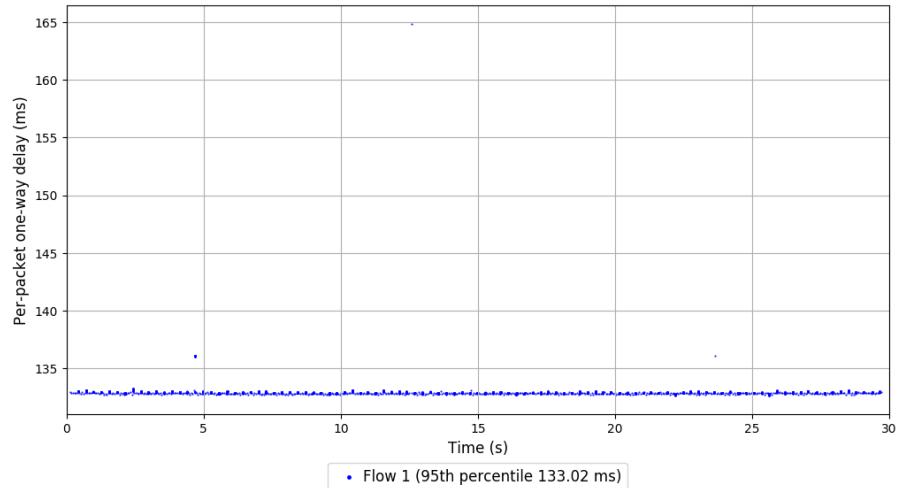
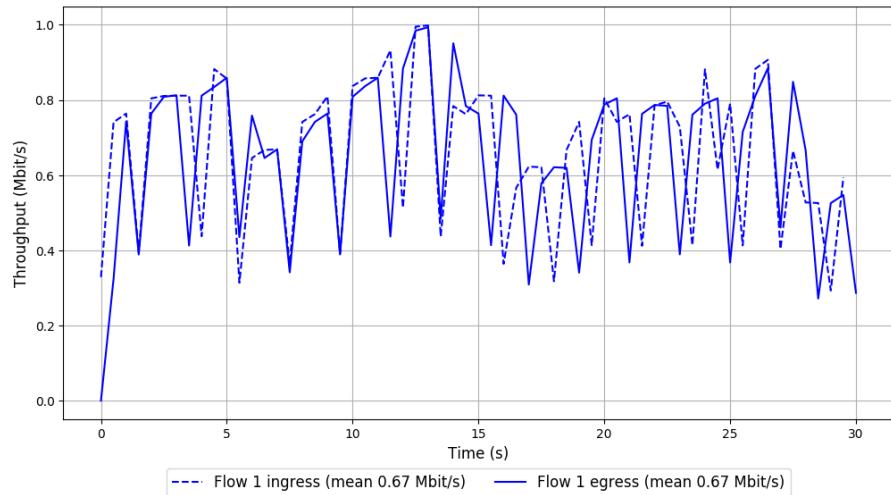


Run 4: Statistics of Sprout

```
Start at: 2019-07-12 10:54:44
End at: 2019-07-12 10:55:14
Local clock offset: -0.477 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-07-12 13:27:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 133.017 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 133.017 ms
Loss rate: 0.78%
```

## Run 4: Report of Sprout — Data Link

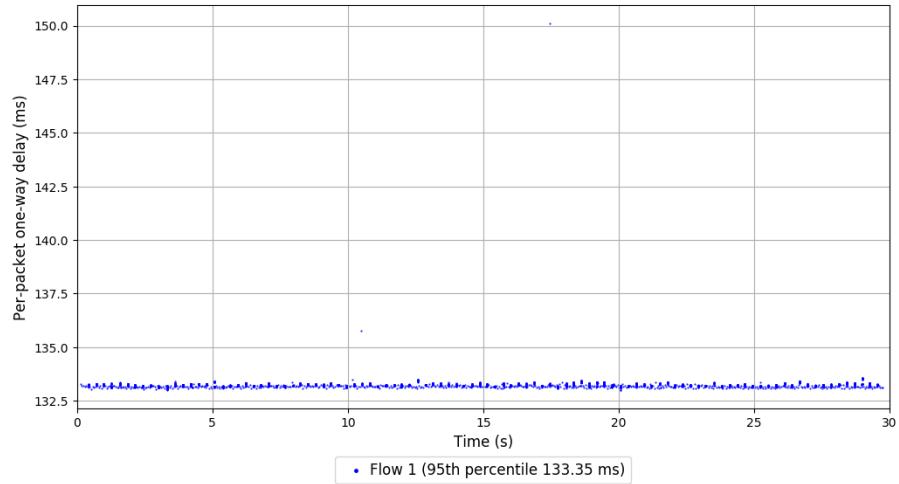
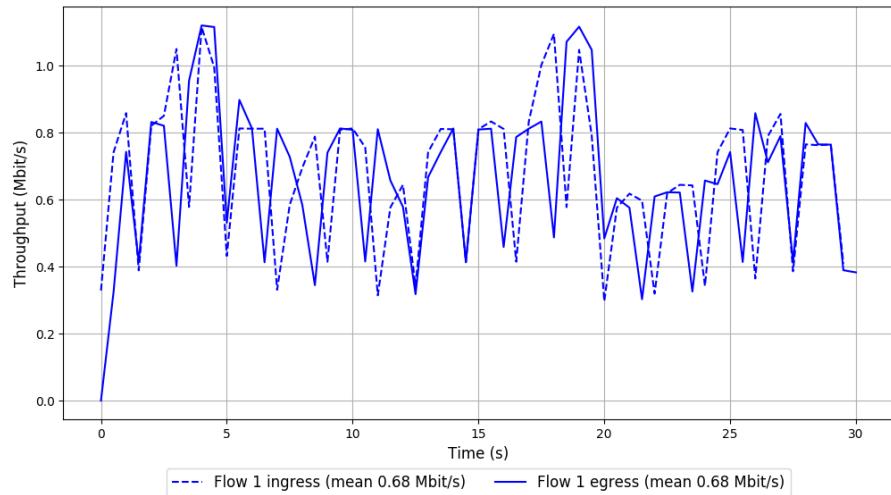


Run 5: Statistics of Sprout

```
Start at: 2019-07-12 11:31:09
End at: 2019-07-12 11:31:39
Local clock offset: 0.251 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-07-12 13:27:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 133.355 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 133.355 ms
Loss rate: 0.99%
```

## Run 5: Report of Sprout — Data Link

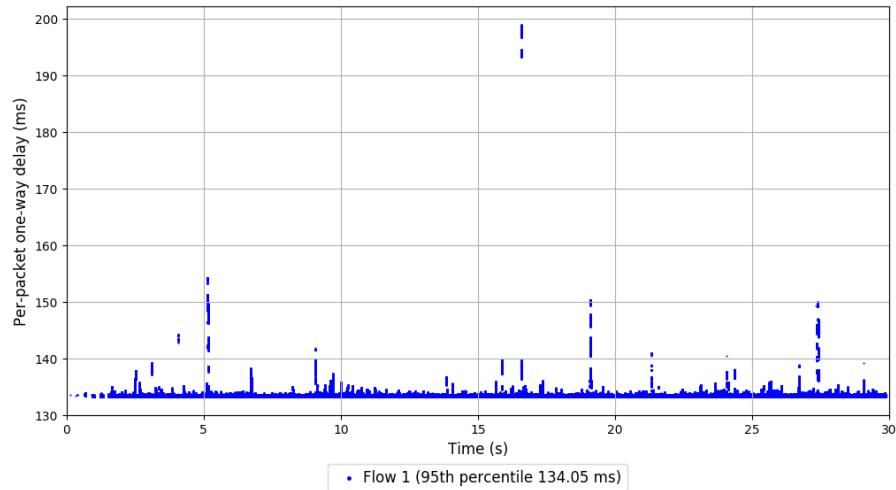
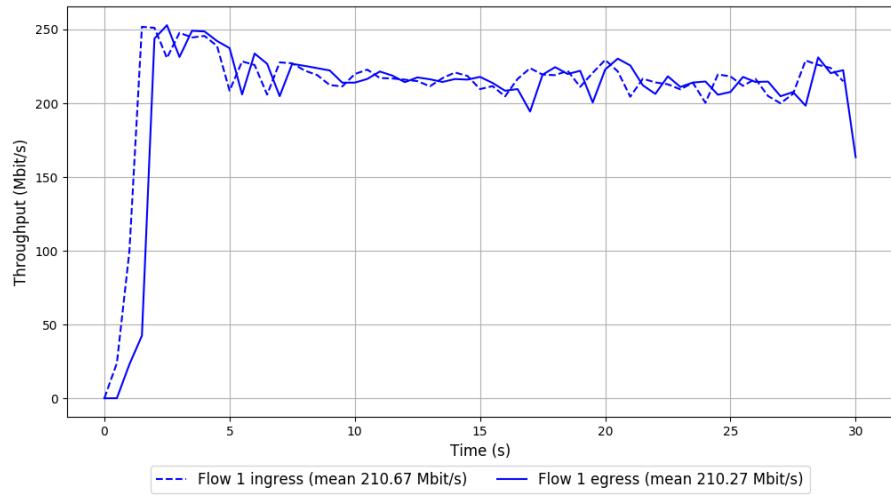


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-07-12 09:20:40
End at: 2019-07-12 09:21:10
Local clock offset: 0.407 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-07-12 13:28:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.27 Mbit/s
95th percentile per-packet one-way delay: 134.050 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 210.27 Mbit/s
95th percentile per-packet one-way delay: 134.050 ms
Loss rate: 1.07%
```

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

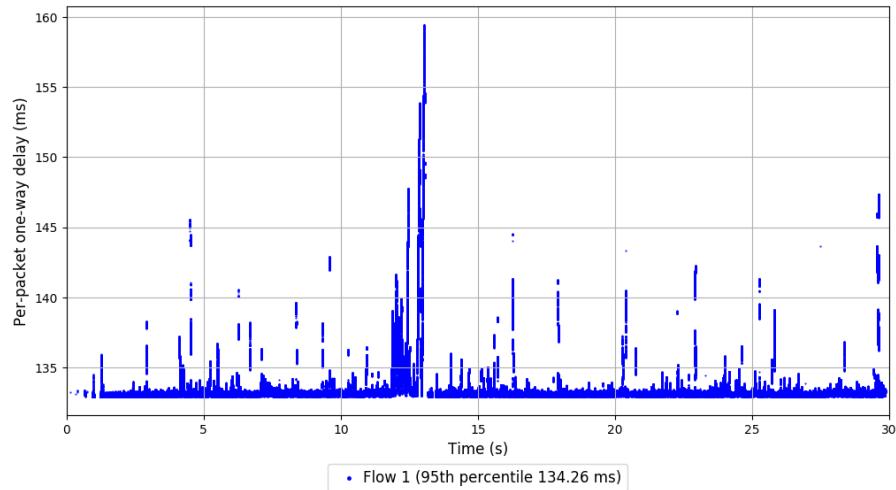
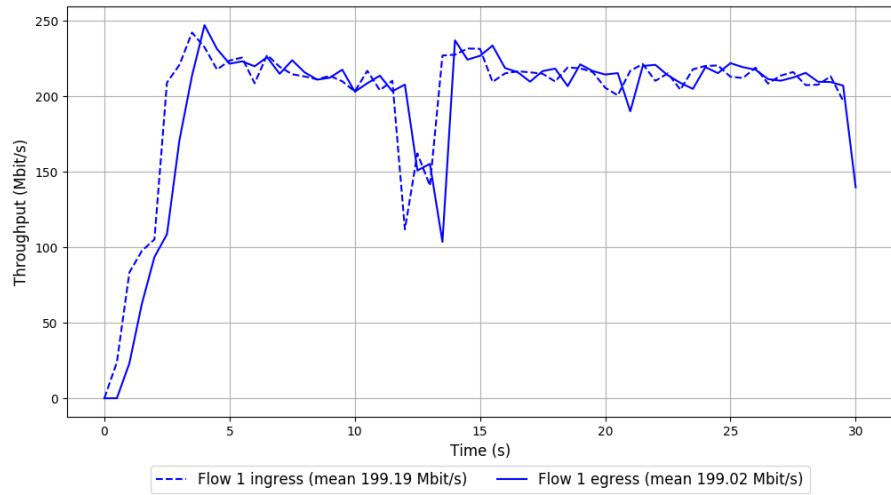


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-07-12 09:56:54
End at: 2019-07-12 09:57:24
Local clock offset: -0.069 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2019-07-12 13:28:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.02 Mbit/s
95th percentile per-packet one-way delay: 134.259 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 199.02 Mbit/s
95th percentile per-packet one-way delay: 134.259 ms
Loss rate: 0.97%
```

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

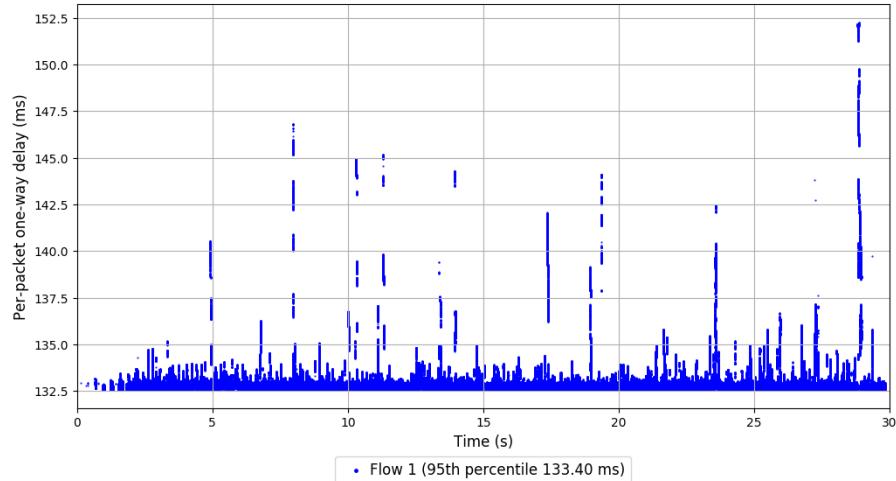
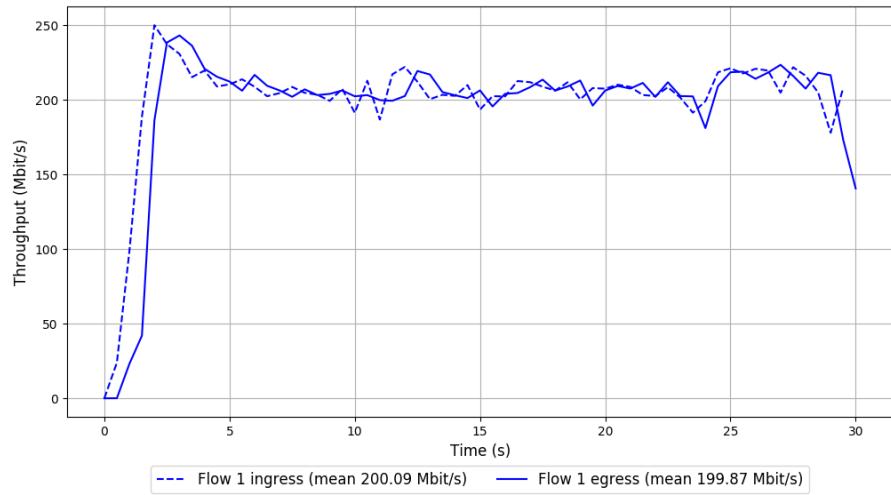


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-07-12 10:32:37
End at: 2019-07-12 10:33:08
Local clock offset: -0.484 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-07-12 13:29:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.87 Mbit/s
95th percentile per-packet one-way delay: 133.396 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 199.87 Mbit/s
95th percentile per-packet one-way delay: 133.396 ms
Loss rate: 0.99%
```

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

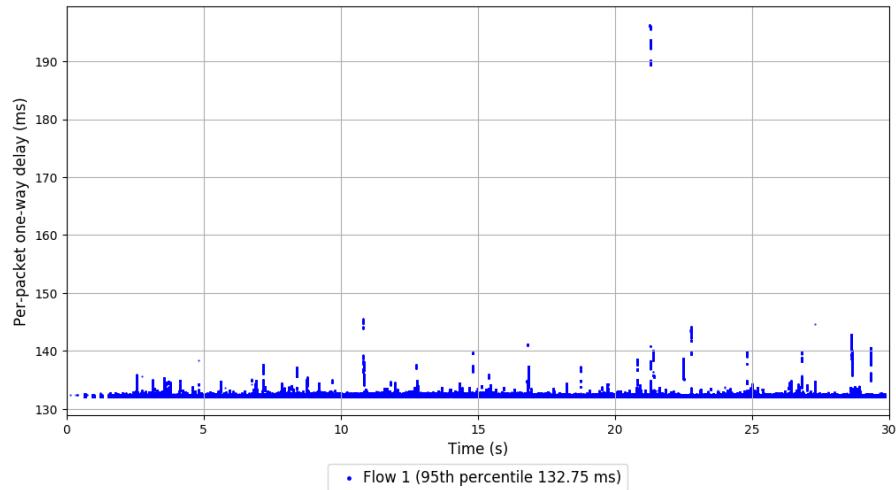
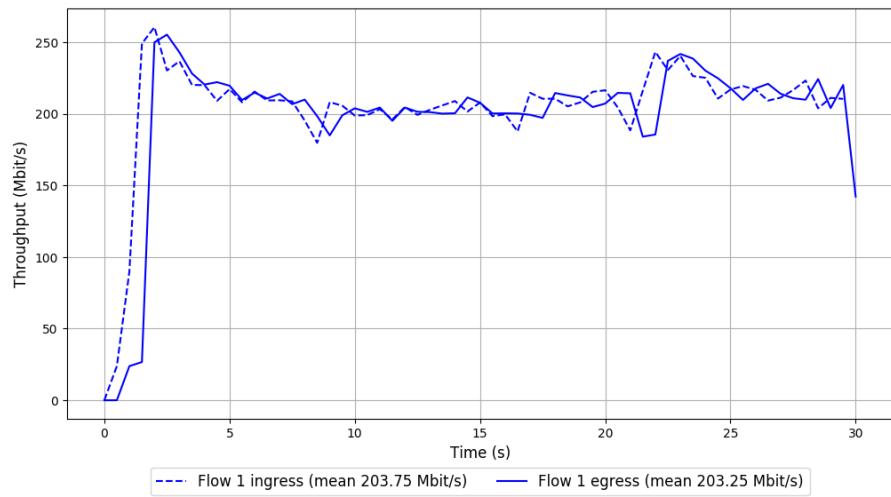


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-07-12 11:08:35
End at: 2019-07-12 11:09:05
Local clock offset: 0.187 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-07-12 13:29:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.25 Mbit/s
95th percentile per-packet one-way delay: 132.753 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 203.25 Mbit/s
95th percentile per-packet one-way delay: 132.753 ms
Loss rate: 1.12%
```

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

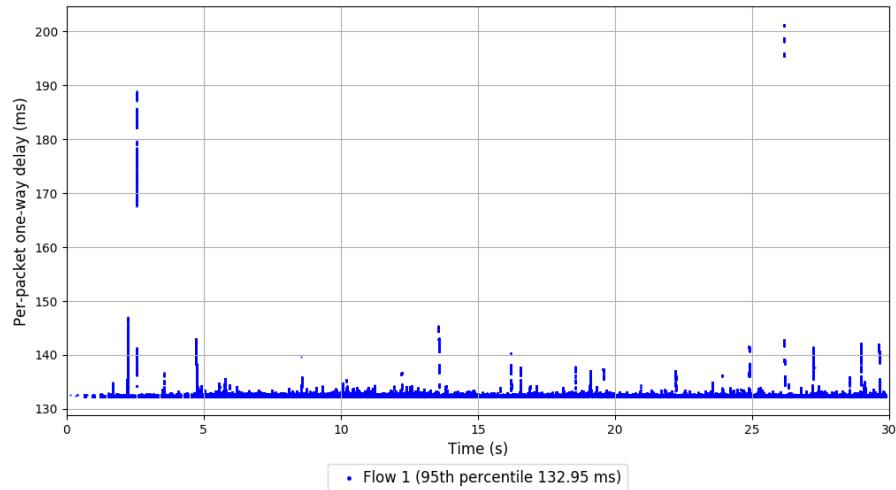
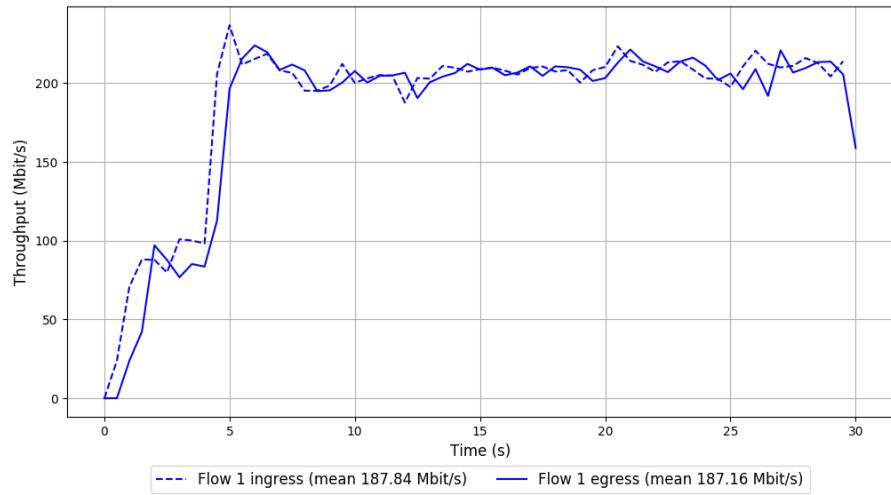


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-07-12 11:45:00
End at: 2019-07-12 11:45:30
Local clock offset: -0.445 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-07-12 13:30:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.16 Mbit/s
95th percentile per-packet one-way delay: 132.952 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 187.16 Mbit/s
95th percentile per-packet one-way delay: 132.952 ms
Loss rate: 1.24%
```

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

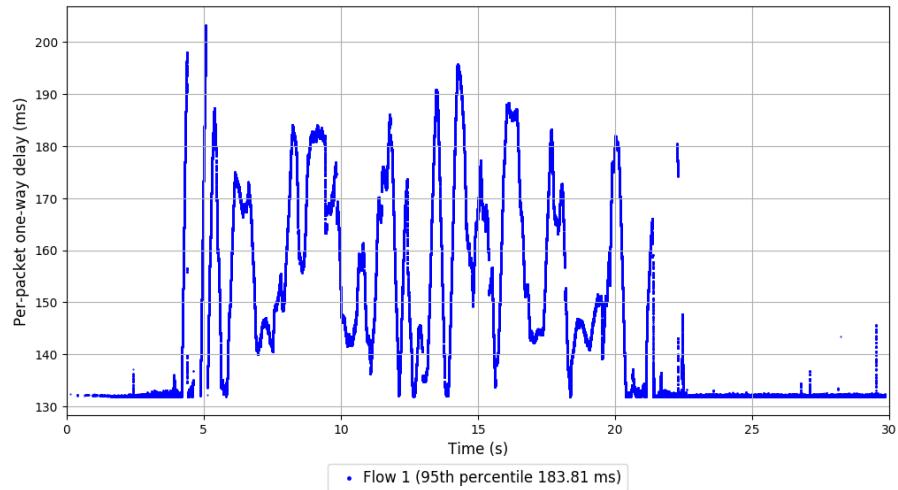
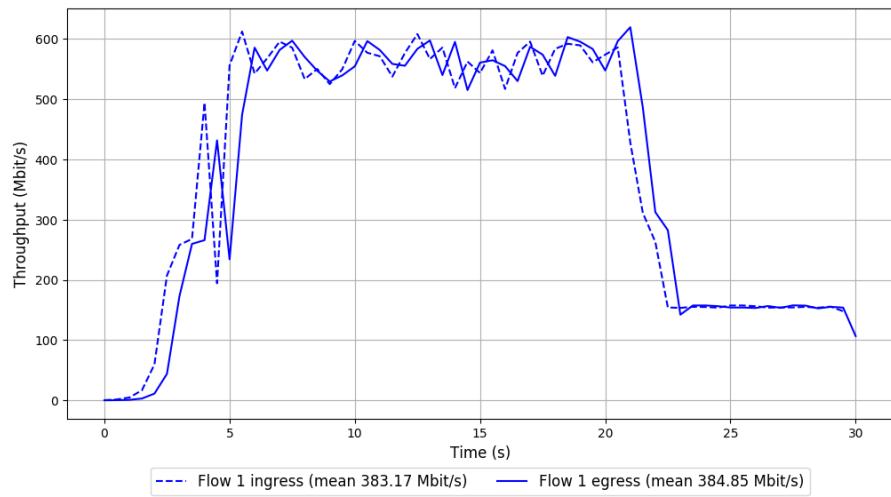


Run 1: Statistics of TCP Vegas

```
Start at: 2019-07-12 08:59:04
End at: 2019-07-12 08:59:34
Local clock offset: -0.421 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-07-12 13:31:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.85 Mbit/s
95th percentile per-packet one-way delay: 183.809 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 384.85 Mbit/s
95th percentile per-packet one-way delay: 183.809 ms
Loss rate: 0.45%
```

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

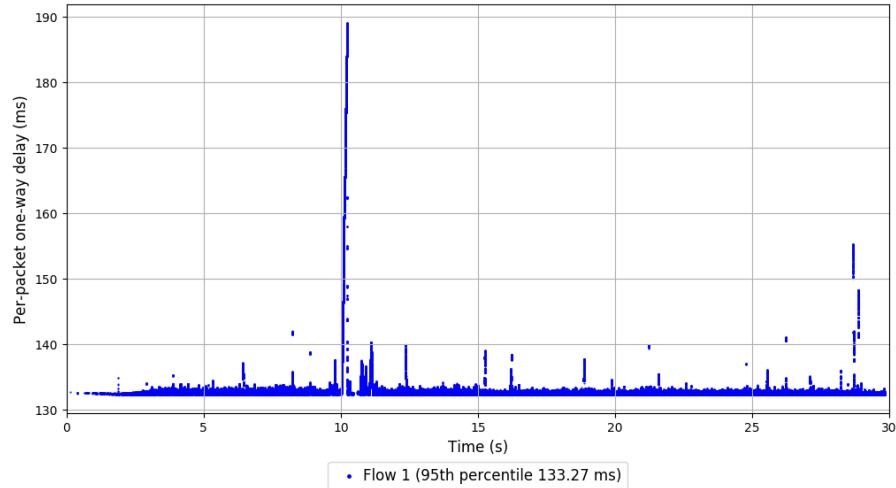
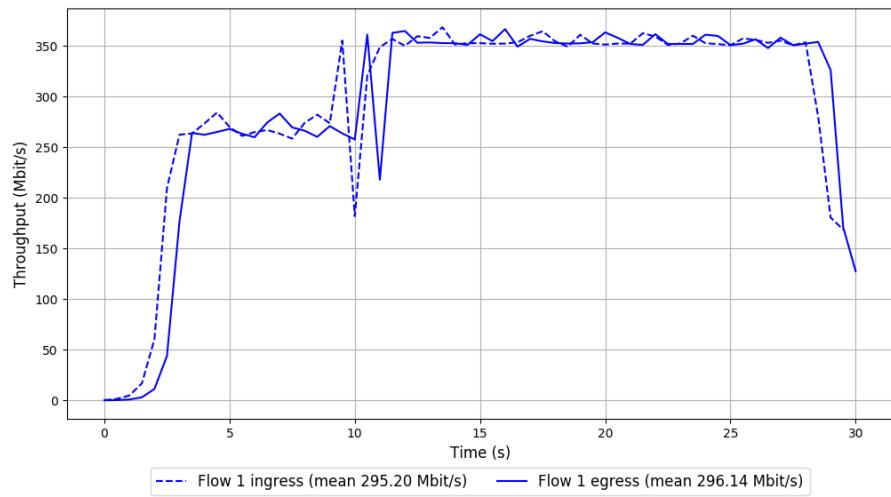


Run 2: Statistics of TCP Vegas

```
Start at: 2019-07-12 09:35:28
End at: 2019-07-12 09:35:58
Local clock offset: 0.357 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-07-12 13:32:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 296.14 Mbit/s
95th percentile per-packet one-way delay: 133.269 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 296.14 Mbit/s
95th percentile per-packet one-way delay: 133.269 ms
Loss rate: 0.57%
```

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

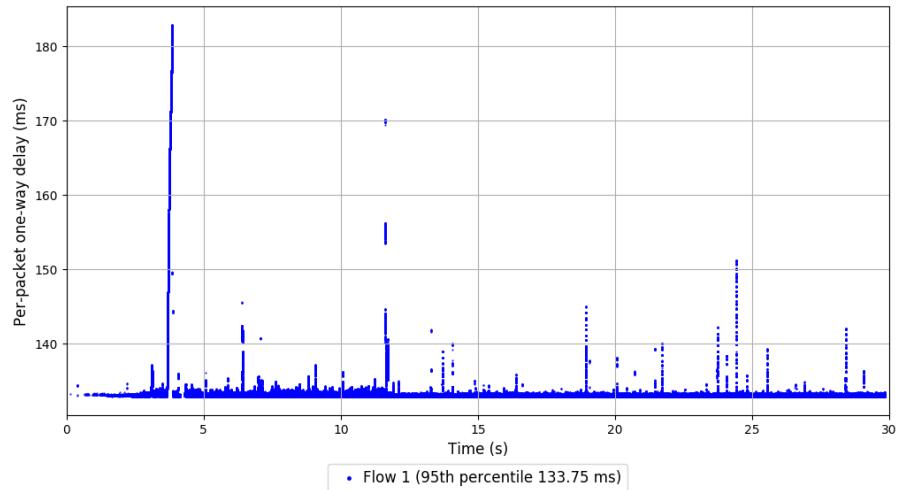
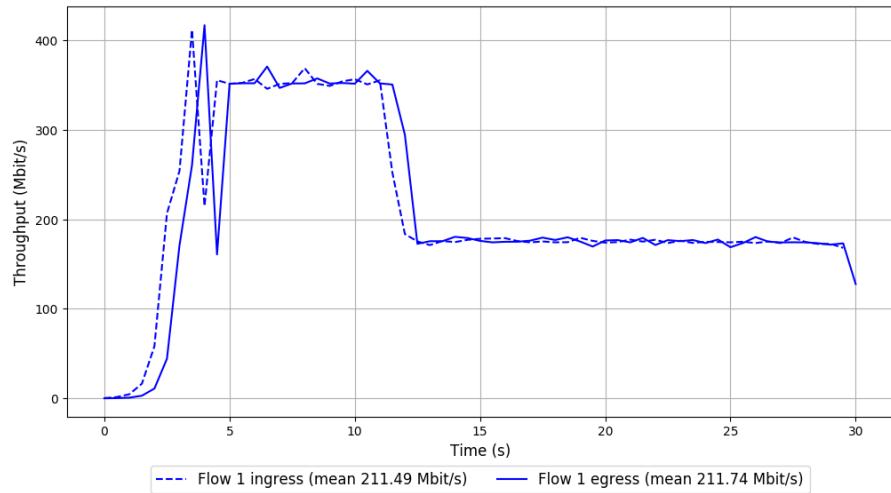


Run 3: Statistics of TCP Vegas

```
Start at: 2019-07-12 10:11:45
End at: 2019-07-12 10:12:15
Local clock offset: 0.094 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-07-12 13:32:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.74 Mbit/s
95th percentile per-packet one-way delay: 133.755 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 211.74 Mbit/s
95th percentile per-packet one-way delay: 133.755 ms
Loss rate: 0.77%
```

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

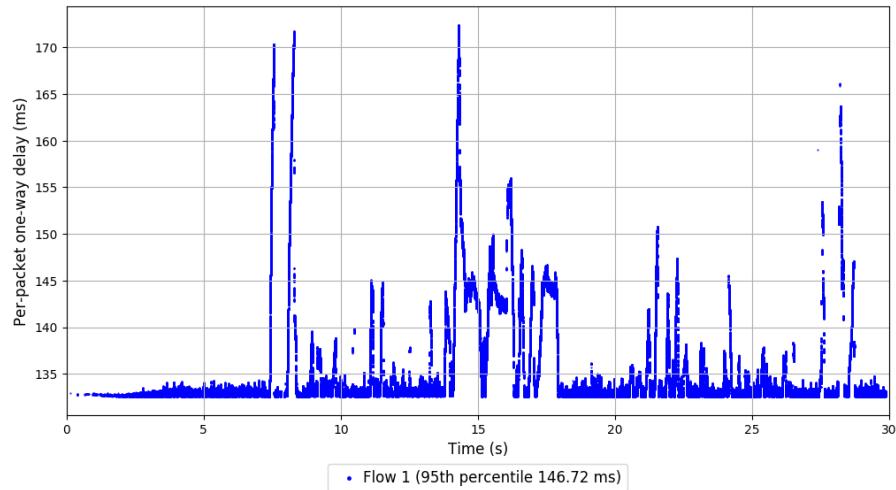
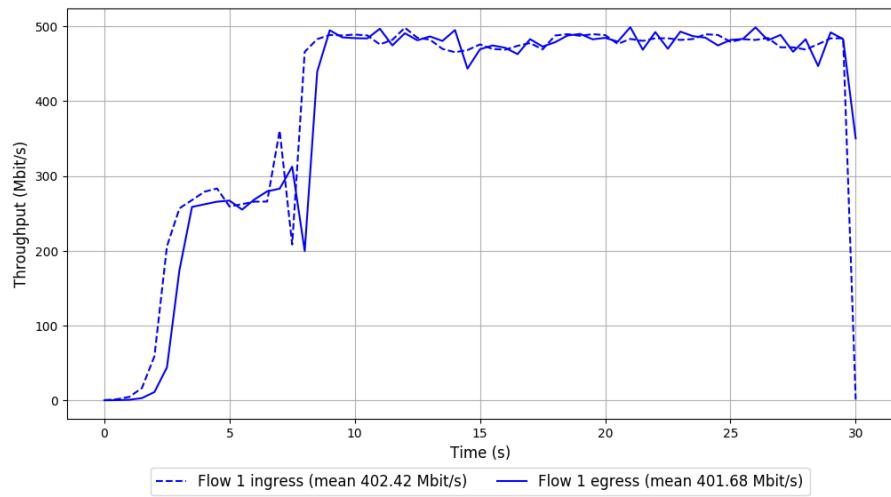


Run 4: Statistics of TCP Vegas

```
Start at: 2019-07-12 10:46:57
End at: 2019-07-12 10:47:27
Local clock offset: -0.235 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-07-12 13:36:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 401.68 Mbit/s
95th percentile per-packet one-way delay: 146.717 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 401.68 Mbit/s
95th percentile per-packet one-way delay: 146.717 ms
Loss rate: 1.07%
```

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

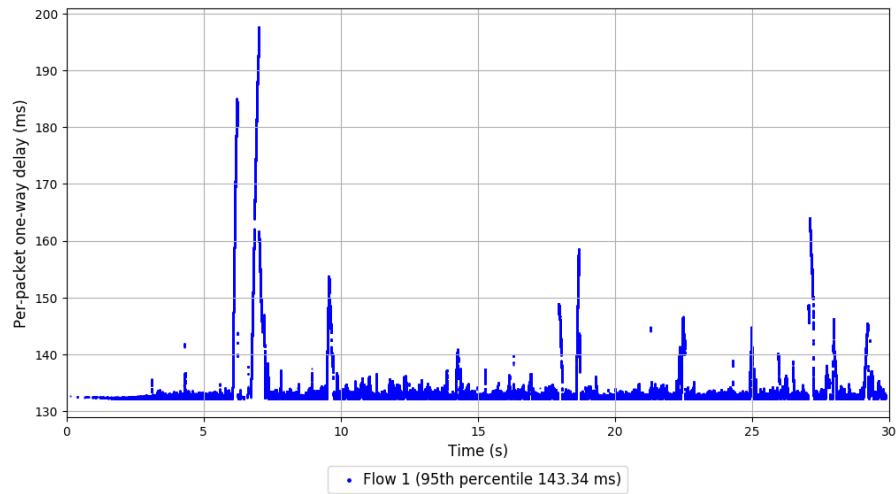
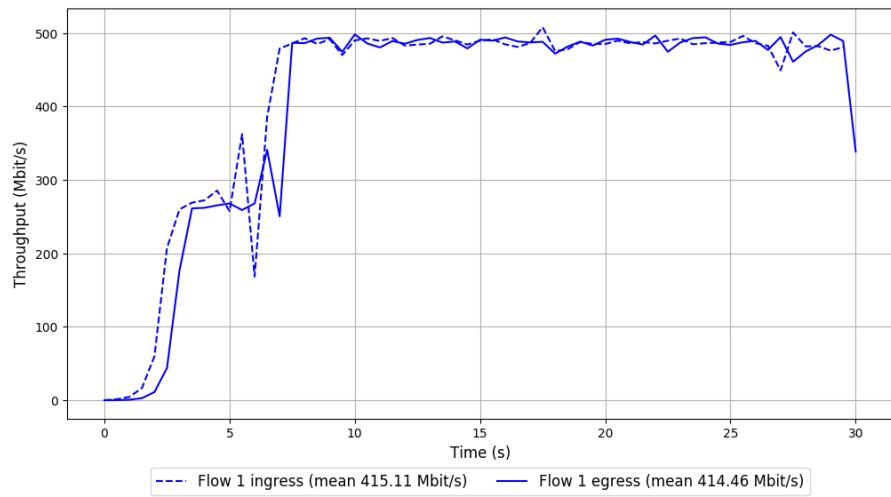


Run 5: Statistics of TCP Vegas

```
Start at: 2019-07-12 11:23:18
End at: 2019-07-12 11:23:49
Local clock offset: -0.16 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-07-12 13:36:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 414.46 Mbit/s
95th percentile per-packet one-way delay: 143.345 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 414.46 Mbit/s
95th percentile per-packet one-way delay: 143.345 ms
Loss rate: 1.04%
```

Run 5: Report of TCP Vegas — Data Link

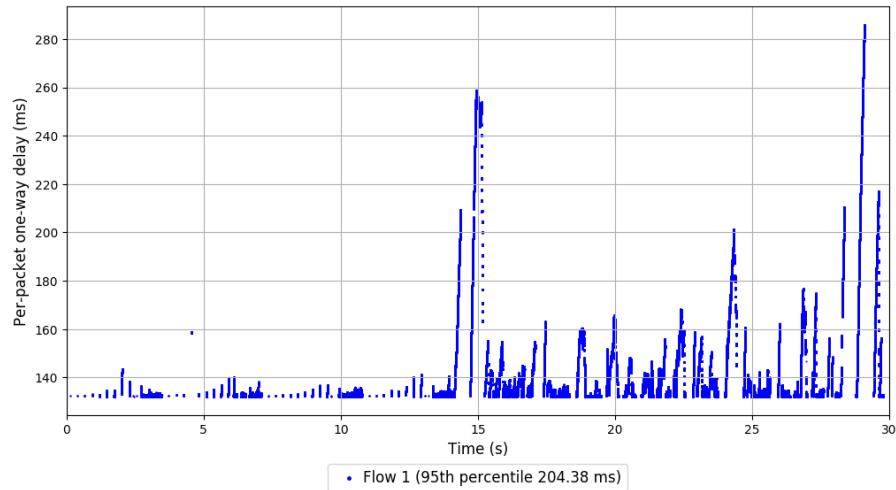
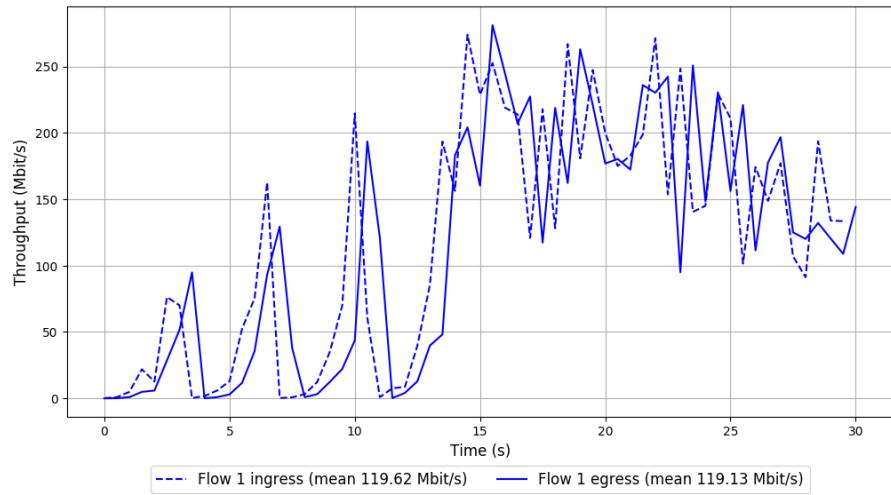


Run 1: Statistics of Verus

```
Start at: 2019-07-12 09:05:22
End at: 2019-07-12 09:05:52
Local clock offset: -0.275 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-07-12 13:36:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 119.13 Mbit/s
95th percentile per-packet one-way delay: 204.380 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 119.13 Mbit/s
95th percentile per-packet one-way delay: 204.380 ms
Loss rate: 1.23%
```

Run 1: Report of Verus — Data Link

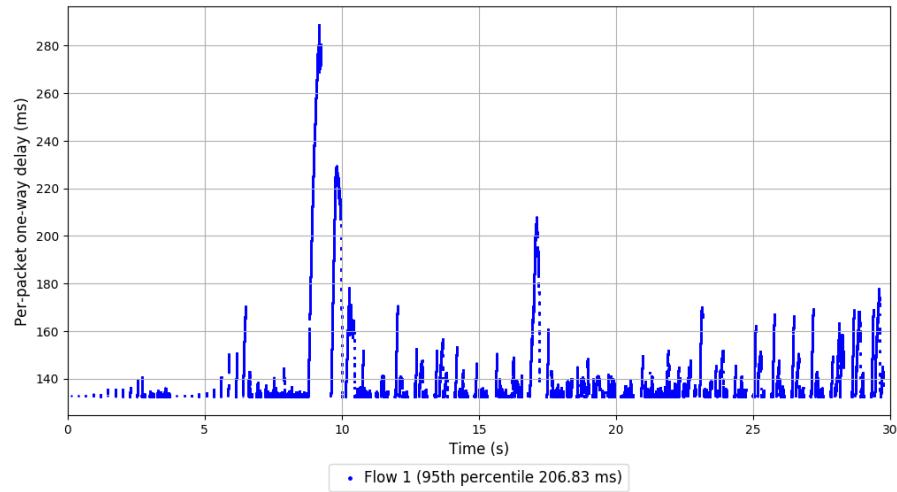
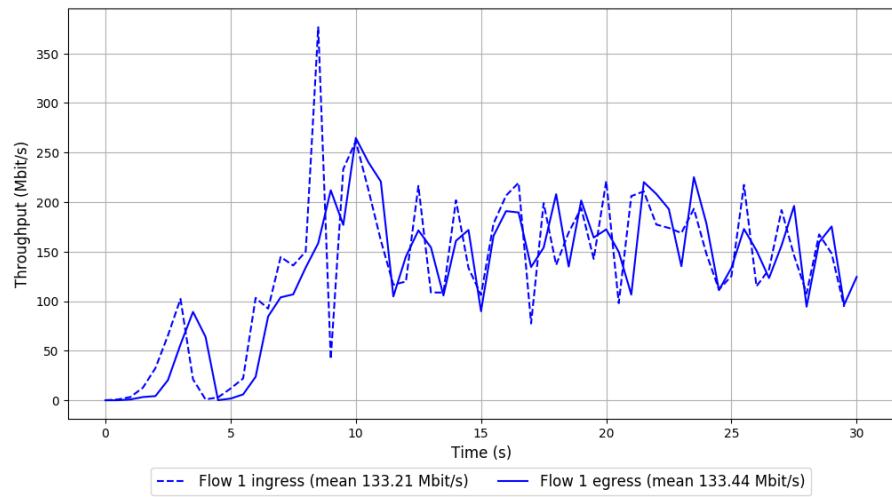


Run 2: Statistics of Verus

```
Start at: 2019-07-12 09:41:39
End at: 2019-07-12 09:42:09
Local clock offset: -0.482 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-07-12 13:36:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.44 Mbit/s
95th percentile per-packet one-way delay: 206.826 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 133.44 Mbit/s
95th percentile per-packet one-way delay: 206.826 ms
Loss rate: 0.95%
```

Run 2: Report of Verus — Data Link

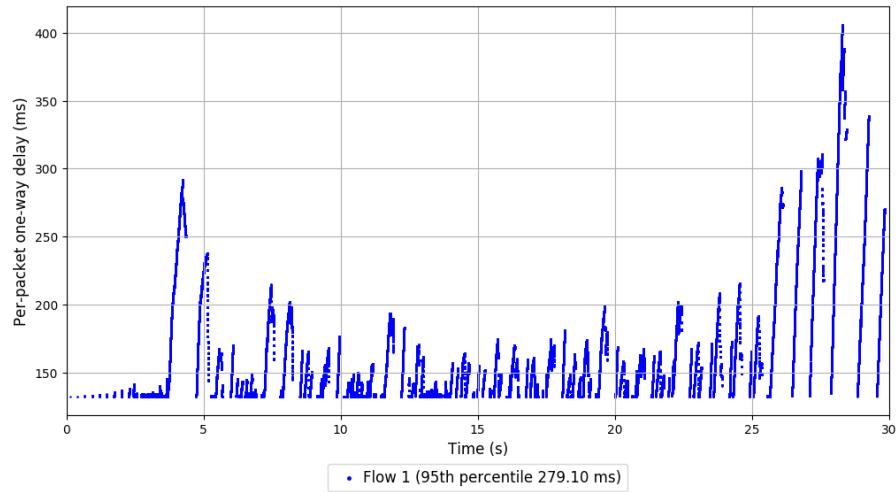
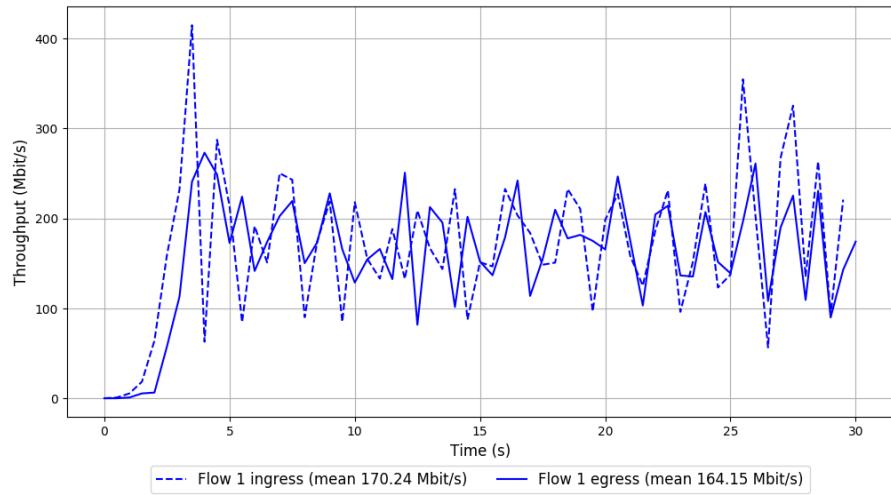


Run 3: Statistics of Verus

```
Start at: 2019-07-12 10:17:34
End at: 2019-07-12 10:18:04
Local clock offset: -0.494 ms
Remote clock offset: -0.338 ms

# Below is generated by plot.py at 2019-07-12 13:36:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 164.15 Mbit/s
95th percentile per-packet one-way delay: 279.100 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 164.15 Mbit/s
95th percentile per-packet one-way delay: 279.100 ms
Loss rate: 4.05%
```

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

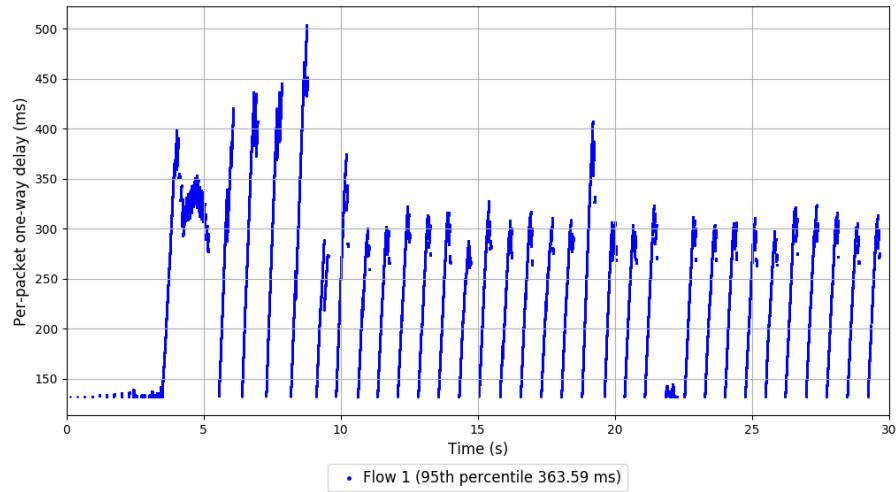
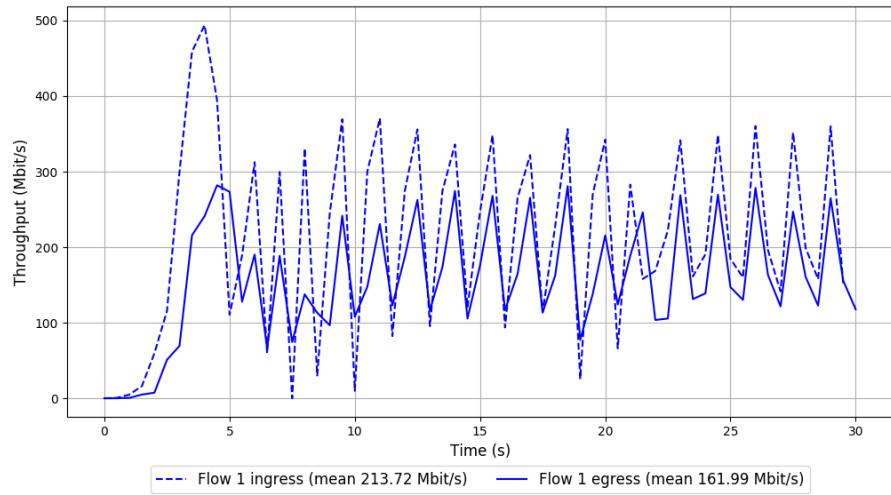


Run 4: Statistics of Verus

```
Start at: 2019-07-12 10:53:13
End at: 2019-07-12 10:53:43
Local clock offset: -0.097 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-07-12 13:37:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 161.99 Mbit/s
95th percentile per-packet one-way delay: 363.592 ms
Loss rate: 25.33%
-- Flow 1:
Average throughput: 161.99 Mbit/s
95th percentile per-packet one-way delay: 363.592 ms
Loss rate: 25.33%
```

### Run 4: Report of Verus — Data Link

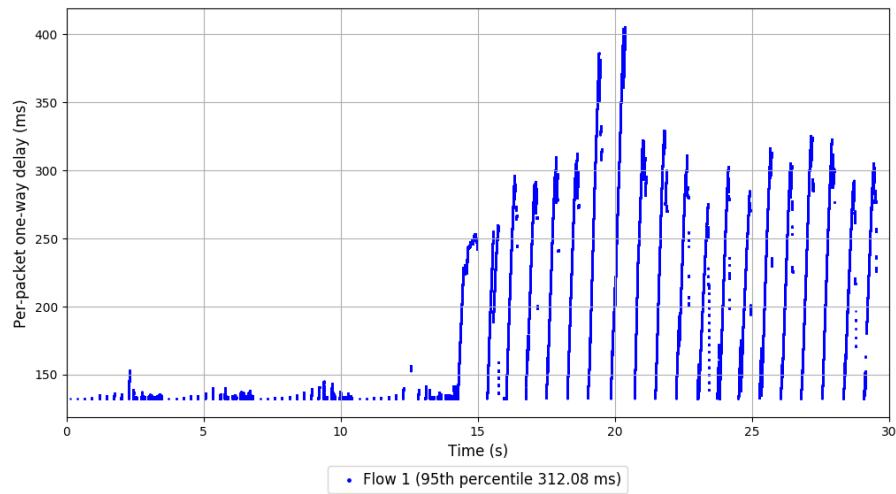
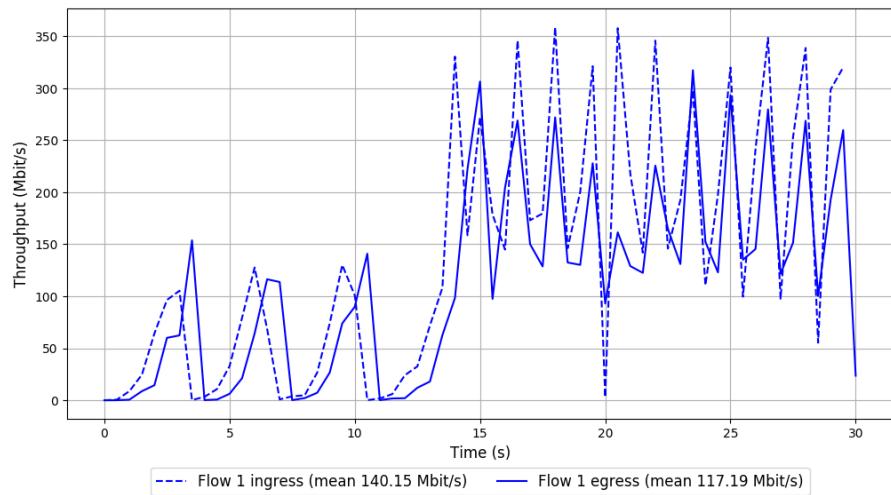


Run 5: Statistics of Verus

```
Start at: 2019-07-12 11:29:44
End at: 2019-07-12 11:30:14
Local clock offset: -0.168 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-07-12 13:37:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 117.19 Mbit/s
95th percentile per-packet one-way delay: 312.080 ms
Loss rate: 17.97%
-- Flow 1:
Average throughput: 117.19 Mbit/s
95th percentile per-packet one-way delay: 312.080 ms
Loss rate: 17.97%
```

### Run 5: Report of Verus — Data Link

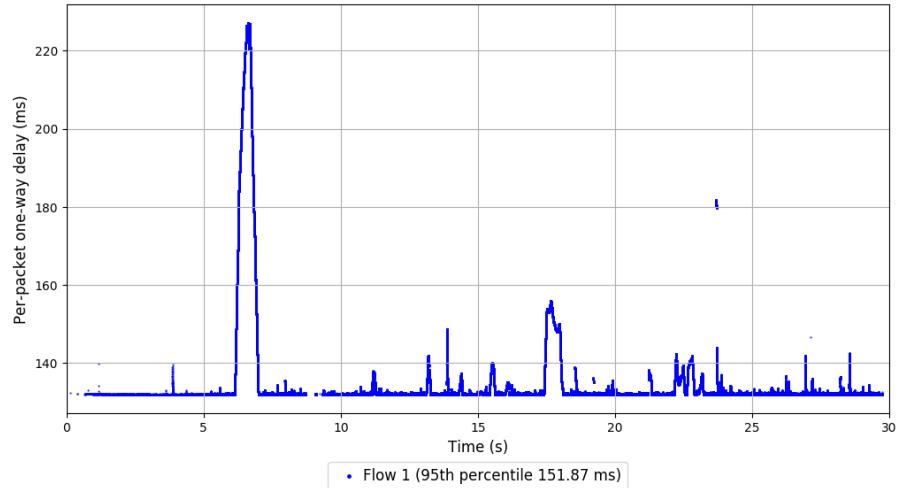
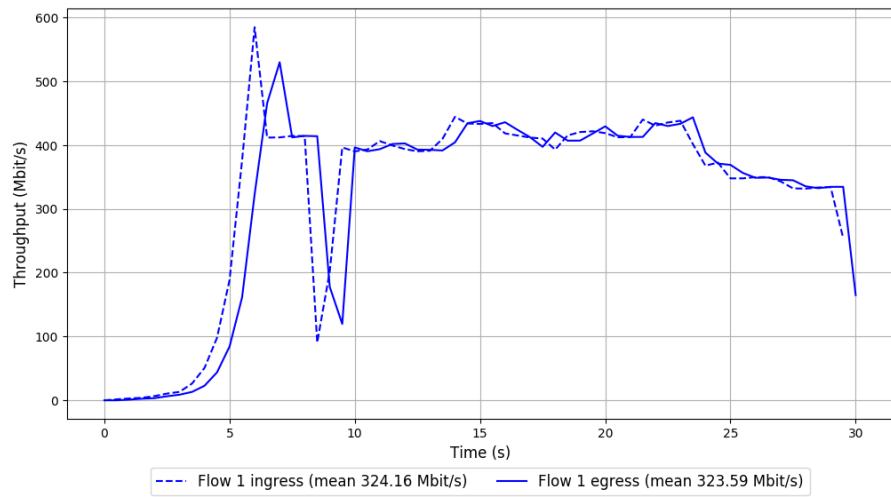


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-07-12 09:14:02
End at: 2019-07-12 09:14:32
Local clock offset: -0.37 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-07-12 13:38:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 323.59 Mbit/s
95th percentile per-packet one-way delay: 151.868 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 323.59 Mbit/s
95th percentile per-packet one-way delay: 151.868 ms
Loss rate: 1.06%
```

Run 1: Report of PCC-Vivace — Data Link

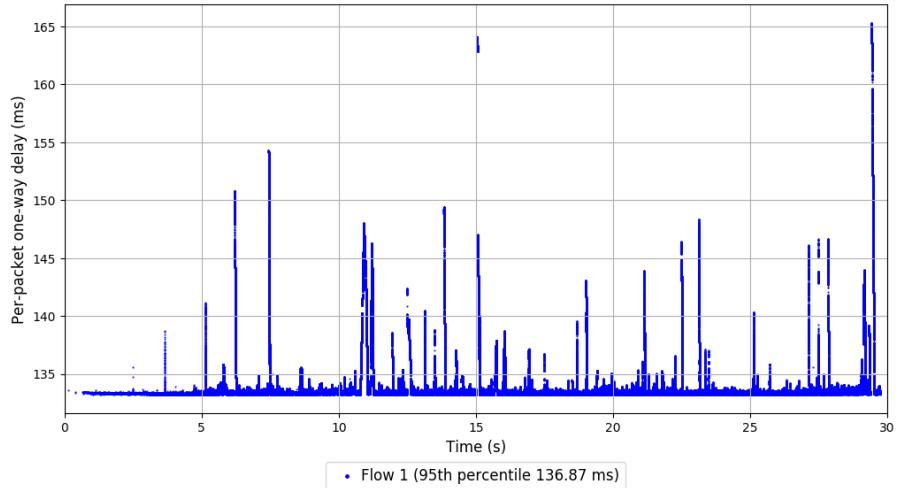
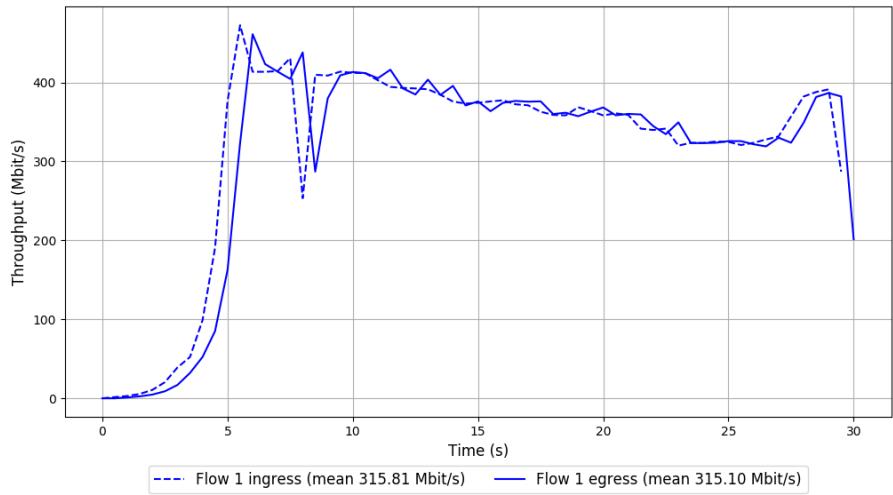


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-07-12 09:50:11
End at: 2019-07-12 09:50:41
Local clock offset: 0.347 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-07-12 13:38:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.10 Mbit/s
95th percentile per-packet one-way delay: 136.872 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 315.10 Mbit/s
95th percentile per-packet one-way delay: 136.872 ms
Loss rate: 1.11%
```

Run 2: Report of PCC-Vivace — Data Link

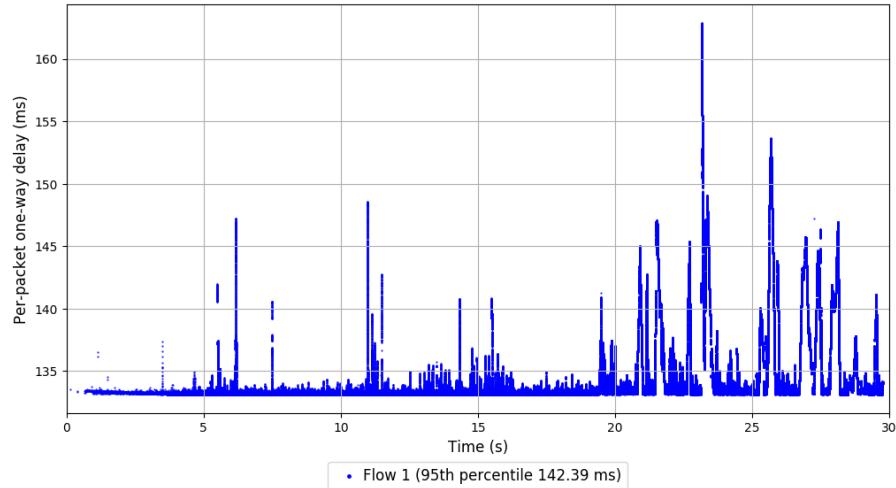
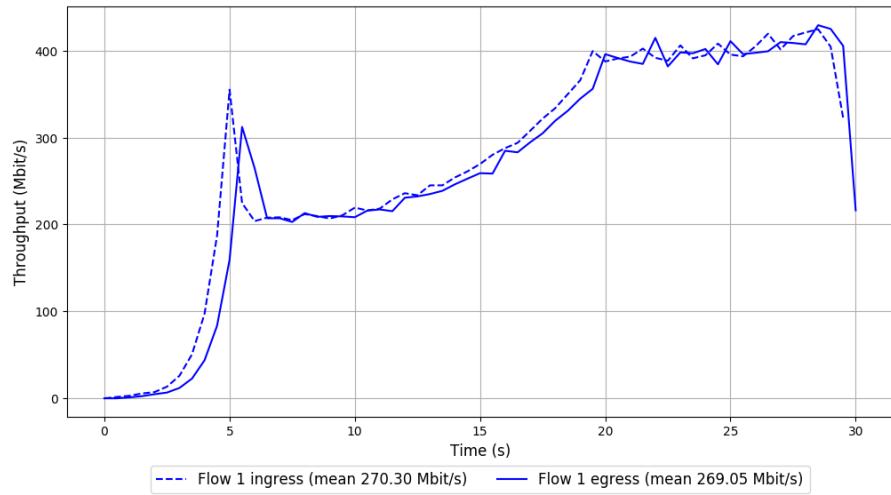


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-07-12 10:26:15
End at: 2019-07-12 10:26:45
Local clock offset: 0.215 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-07-12 13:38:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 269.05 Mbit/s
95th percentile per-packet one-way delay: 142.389 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 269.05 Mbit/s
95th percentile per-packet one-way delay: 142.389 ms
Loss rate: 1.35%
```

Run 3: Report of PCC-Vivace — Data Link

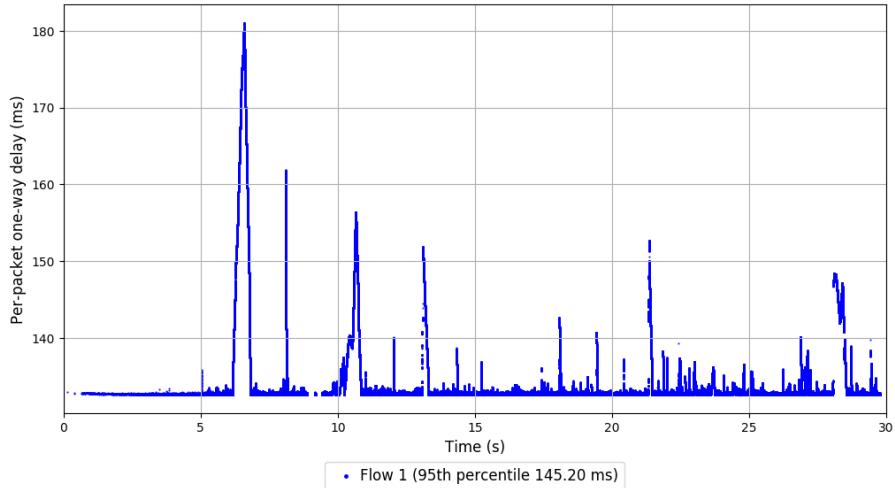
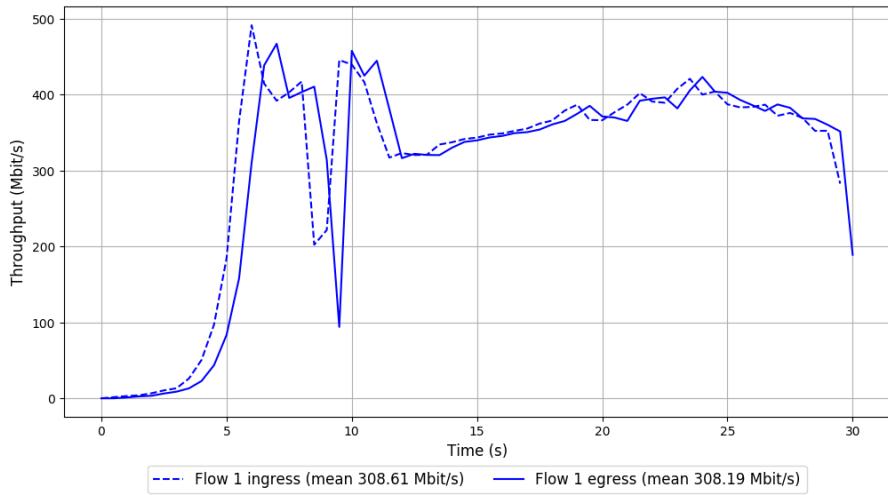


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-07-12 11:01:58
End at: 2019-07-12 11:02:28
Local clock offset: -0.103 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-07-12 13:39:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 308.19 Mbit/s
95th percentile per-packet one-way delay: 145.202 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 308.19 Mbit/s
95th percentile per-packet one-way delay: 145.202 ms
Loss rate: 1.02%
```

Run 4: Report of PCC-Vivace — Data Link

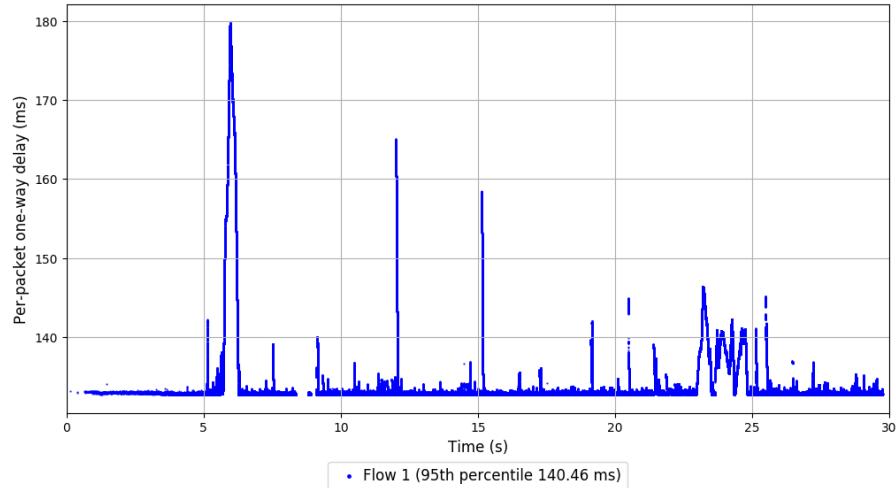
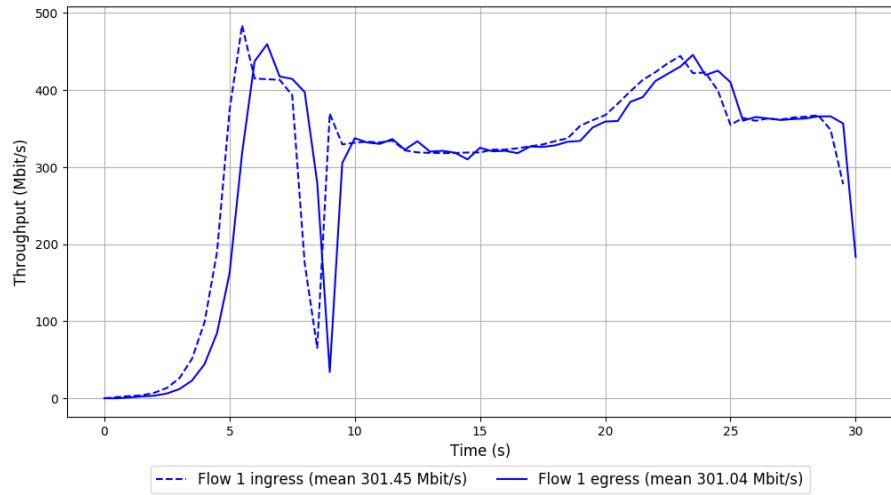


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-07-12 11:38:27
End at: 2019-07-12 11:38:57
Local clock offset: -0.005 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-07-12 13:39:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 301.04 Mbit/s
95th percentile per-packet one-way delay: 140.463 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 301.04 Mbit/s
95th percentile per-packet one-way delay: 140.463 ms
Loss rate: 1.02%
```

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

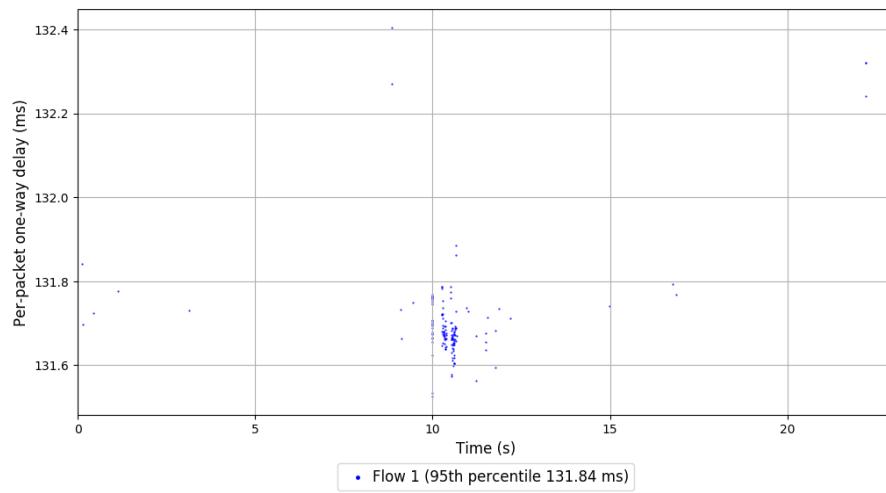
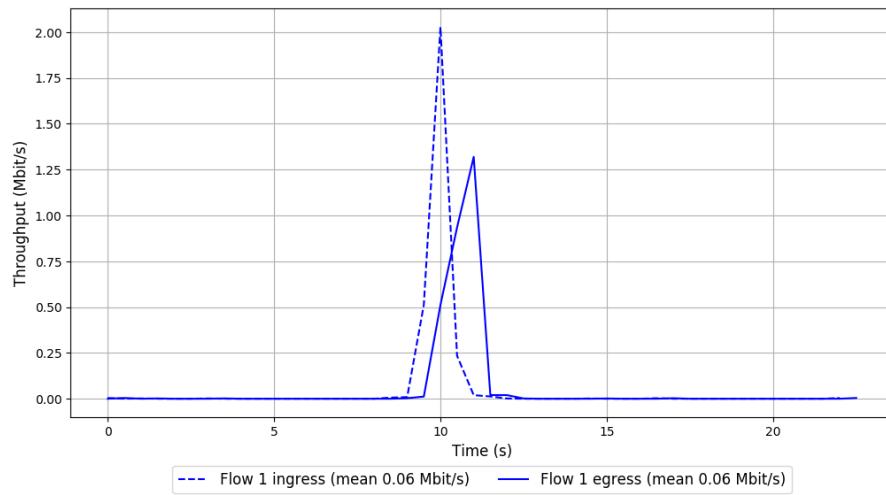
Start at: 2019-07-12 09:22:13

End at: 2019-07-12 09:22:43

Local clock offset: -0.425 ms

Remote clock offset: 0.02 ms

Run 1: Report of WebRTC media — Data Link

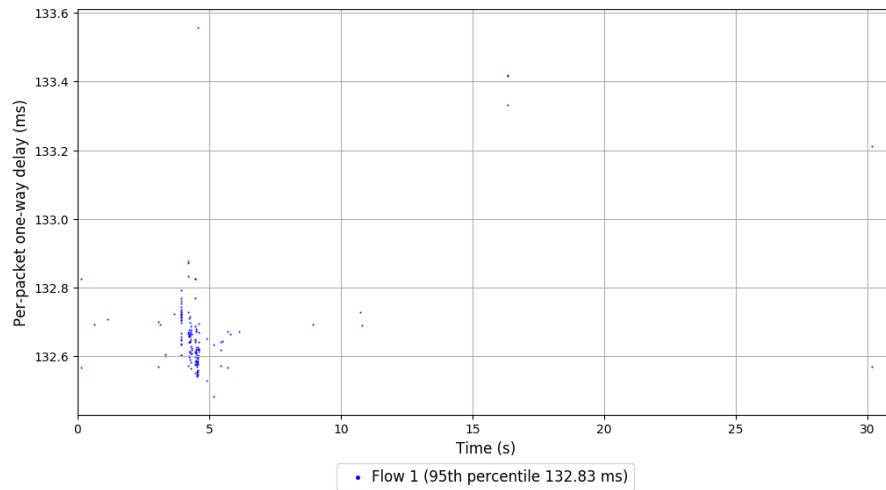
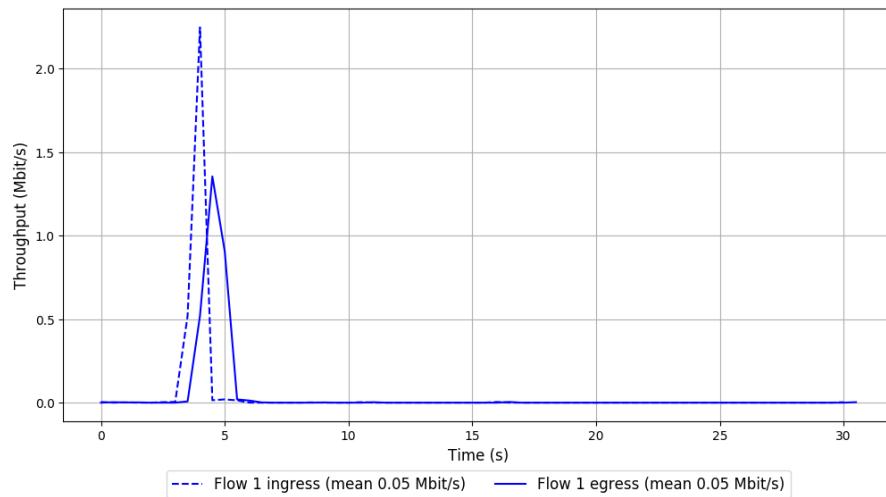


Run 2: Statistics of WebRTC media

```
Start at: 2019-07-12 09:58:25
End at: 2019-07-12 09:58:55
Local clock offset: -0.218 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-07-12 13:39:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.827 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.827 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

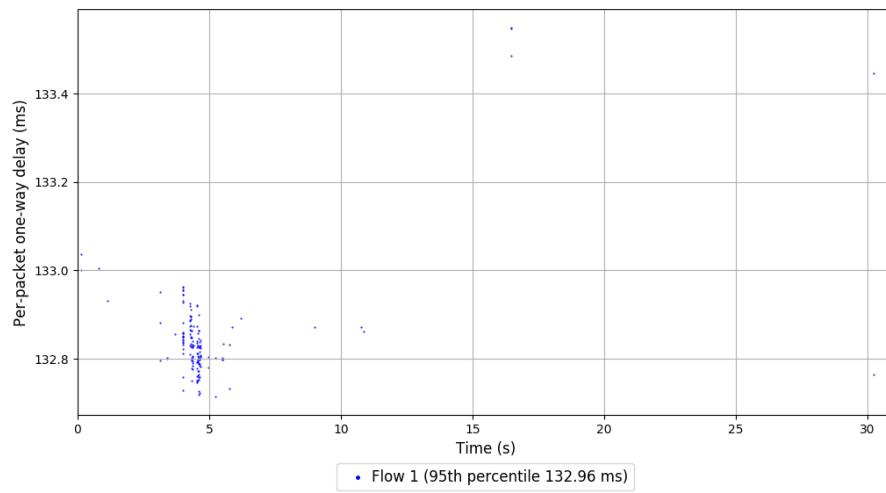
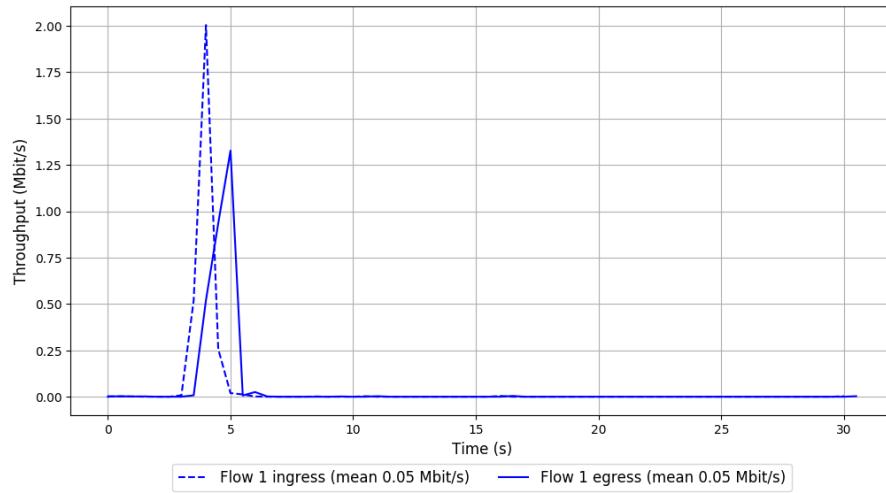


Run 3: Statistics of WebRTC media

```
Start at: 2019-07-12 10:34:10
End at: 2019-07-12 10:34:40
Local clock offset: 0.261 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-07-12 13:39:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.962 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.962 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

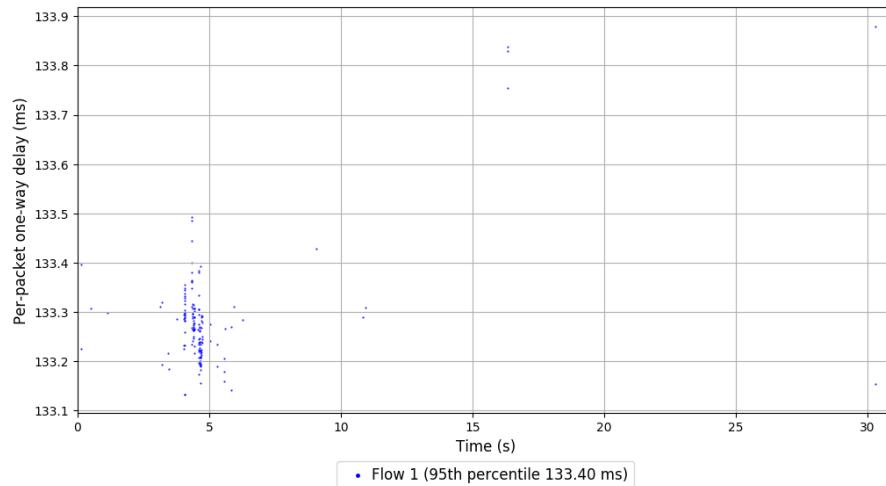
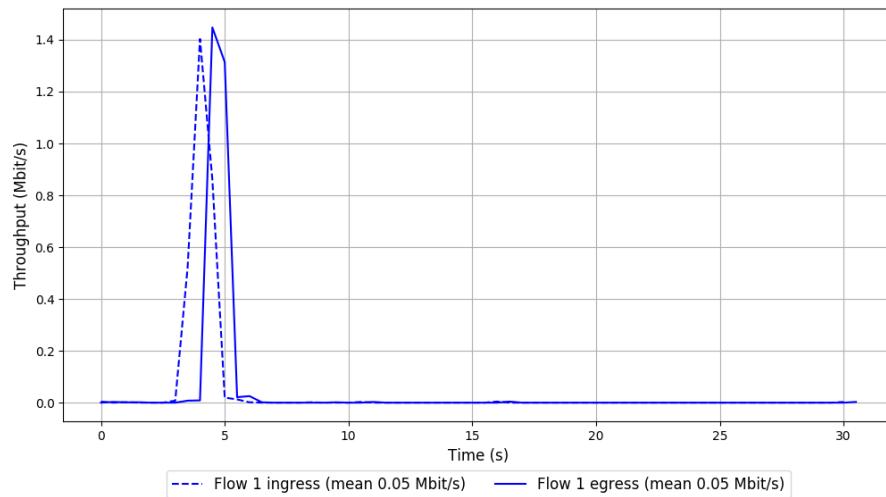


Run 4: Statistics of WebRTC media

```
Start at: 2019-07-12 11:10:07
End at: 2019-07-12 11:10:37
Local clock offset: 0.232 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-07-12 13:39:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.400 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.400 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-07-12 11:46:32
End at: 2019-07-12 11:47:02
Local clock offset: -0.05 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-07-12 13:39:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.337 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.337 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

