

## Pantheon Report

Generated at 2019-11-24 14:33:10 (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:

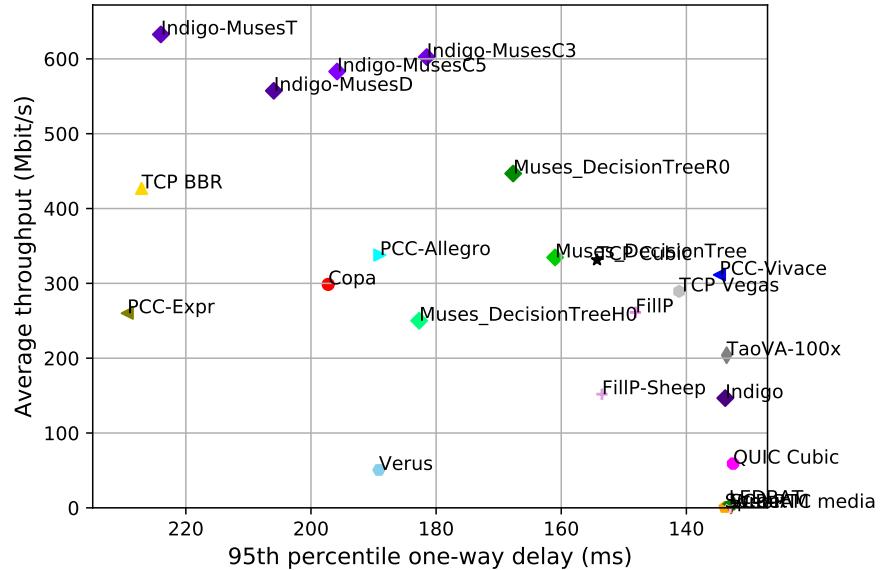
```
Linux 4.15.0-1044-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

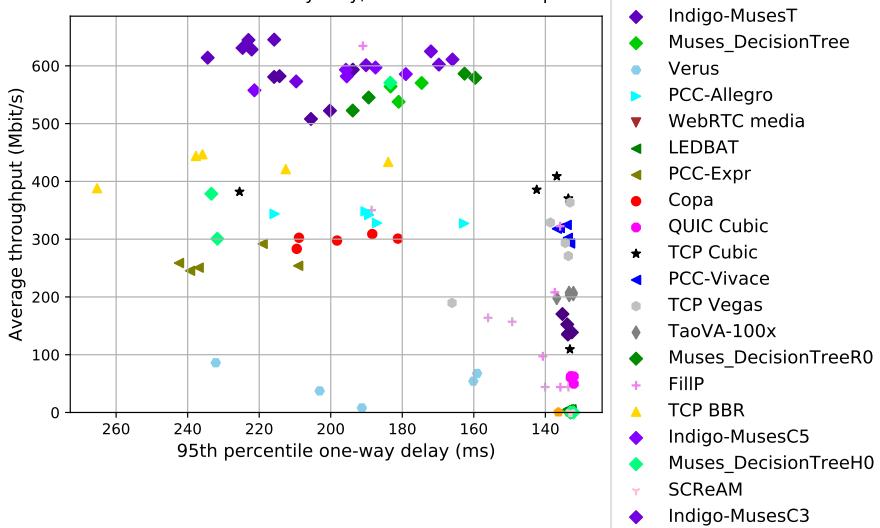
```
branch: muses @ de42328552b3776a75a932a94dfaf722537b0ec
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
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 Indigo-MusesD



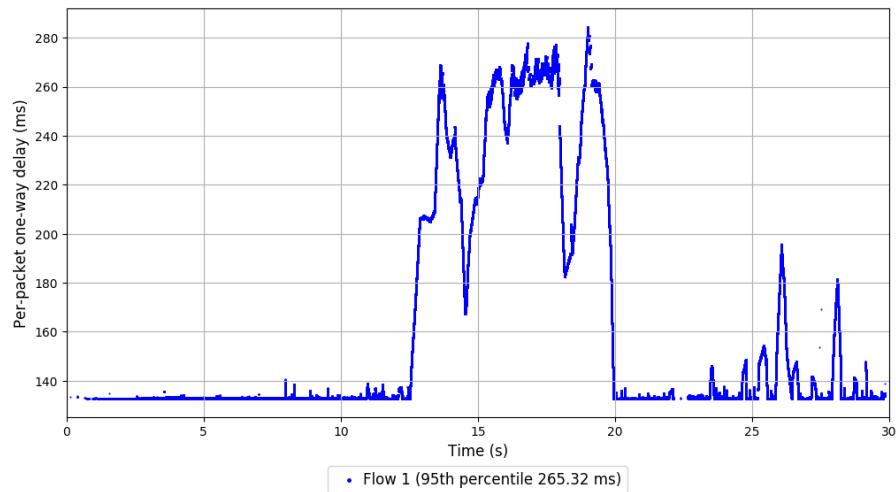
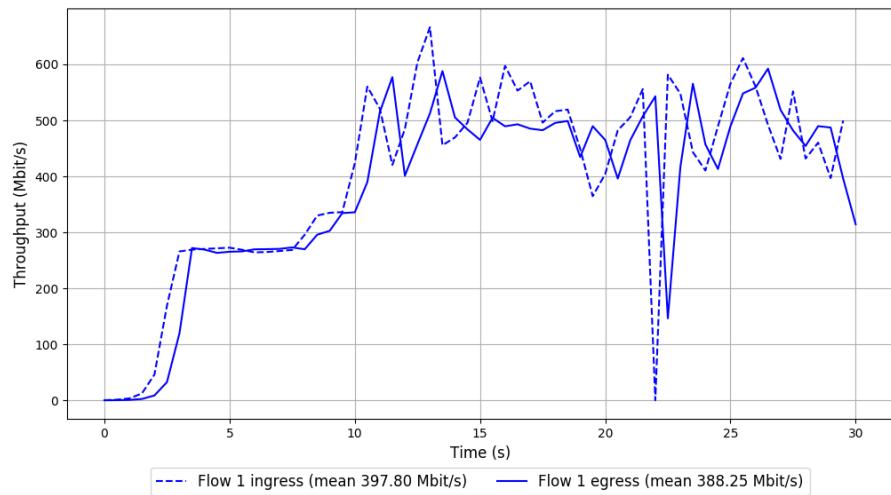
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	426.86	227.07	1.79
Copa	5	298.61	197.24	0.99
TCP Cubic	5	331.27	154.28	1.60
FillP	5	261.21	148.14	0.26
FillP-Sheep	5	151.86	153.49	0.50
Indigo	5	146.64	133.79	0.90
Indigo-MusesC3	5	602.43	181.50	1.07
Indigo-MusesC5	5	583.10	195.82	1.38
Indigo-MusesD	5	557.33	205.94	1.39
Indigo-MusesT	5	632.66	223.99	1.87
LEDBAT	5	5.24	133.21	1.79
Muses_DecisionTree	5	334.65	160.98	1.08
Muses_DecisionTreeH0	5	250.06	182.71	3.52
Muses_DecisionTreeR0	5	446.77	167.68	1.17
PCC-Allegro	5	337.81	188.99	1.62
PCC-Expr	5	260.11	229.36	2.73
QUIC Cubic	5	59.12	132.53	1.28
SCReAM	5	0.16	133.00	0.88
Sprout	5	0.65	133.87	0.90
TaoVA-100x	5	203.92	133.56	0.94
TCP Vegas	5	289.24	141.15	0.94
Verus	5	50.63	189.15	0.70
PCC-Vivace	5	311.38	134.72	1.06
WebRTC media	4	0.05	132.87	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-11-24 10:19:48
End at: 2019-11-24 10:20:18
Local clock offset: -0.026 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-11-24 13:09:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 388.25 Mbit/s
95th percentile per-packet one-way delay: 265.317 ms
Loss rate: 3.26%
-- Flow 1:
Average throughput: 388.25 Mbit/s
95th percentile per-packet one-way delay: 265.317 ms
Loss rate: 3.26%
```

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

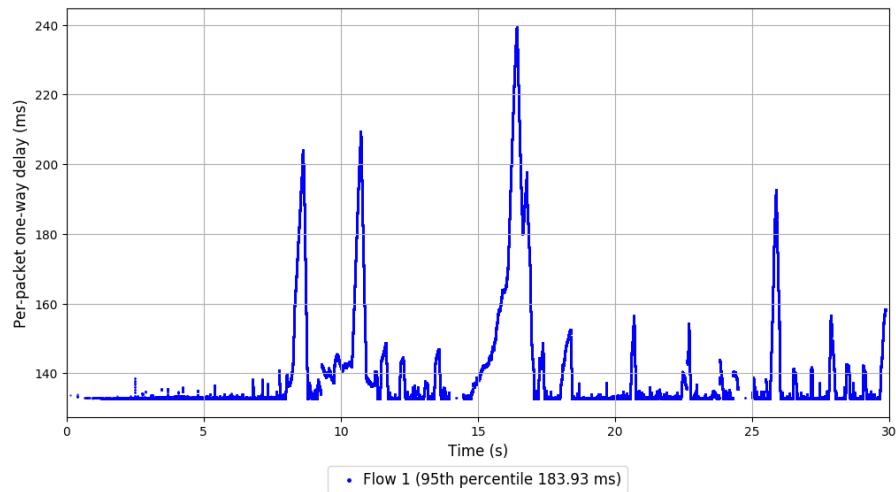
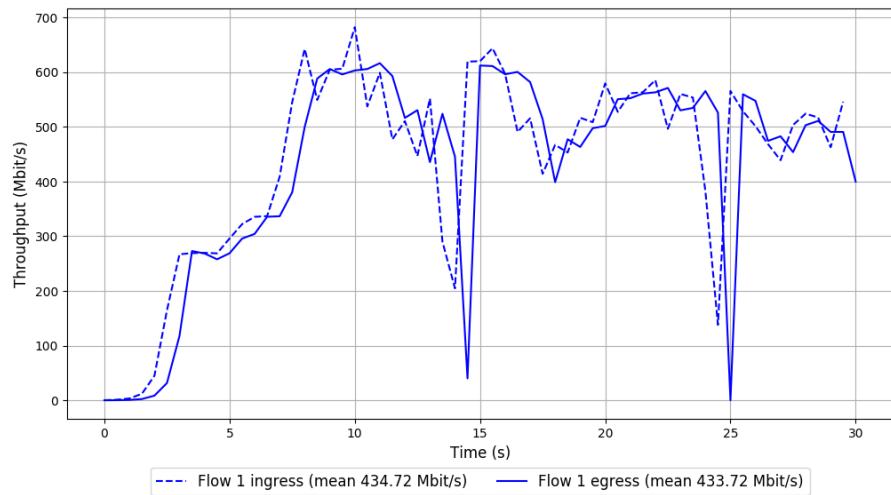


Run 2: Statistics of TCP BBR

```
Start at: 2019-11-24 10:54:00
End at: 2019-11-24 10:54:30
Local clock offset: 0.021 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-11-24 13:11:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 433.72 Mbit/s
95th percentile per-packet one-way delay: 183.931 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 433.72 Mbit/s
95th percentile per-packet one-way delay: 183.931 ms
Loss rate: 1.12%
```

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

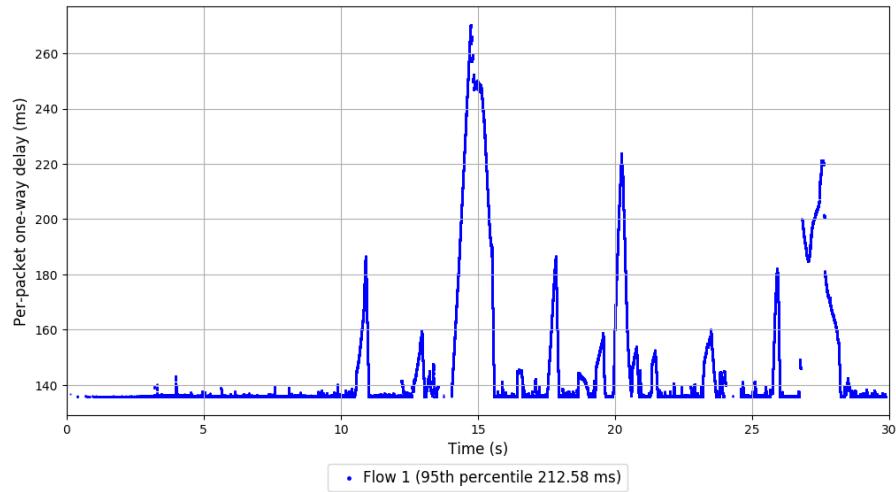
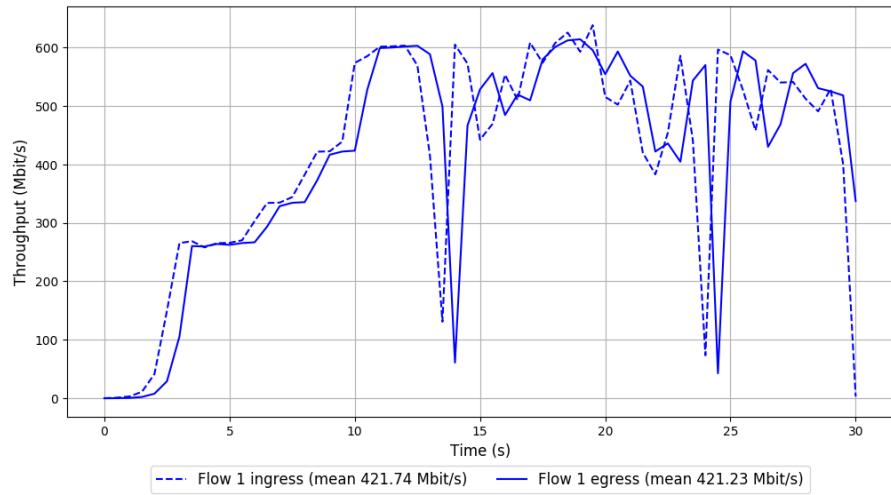


Run 3: Statistics of TCP BBR

```
Start at: 2019-11-24 11:29:27
End at: 2019-11-24 11:29:57
Local clock offset: 0.042 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-11-24 13:11:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 421.23 Mbit/s
95th percentile per-packet one-way delay: 212.579 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 421.23 Mbit/s
95th percentile per-packet one-way delay: 212.579 ms
Loss rate: 1.02%
```

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

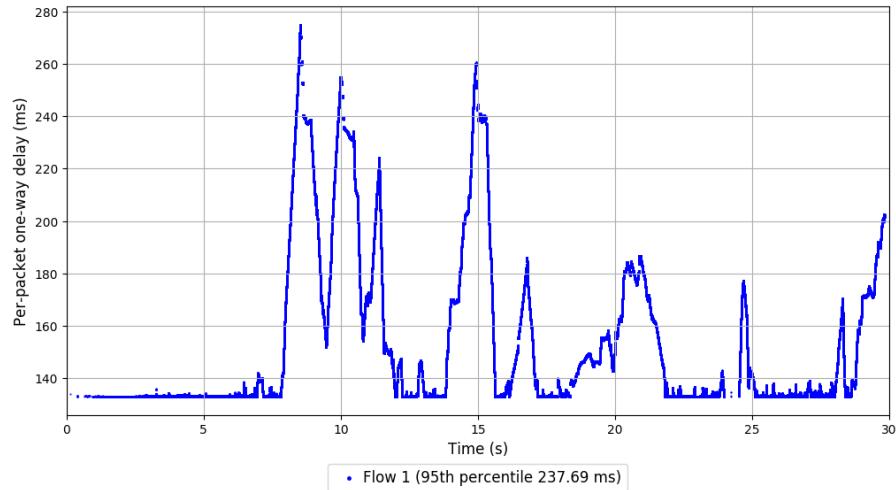
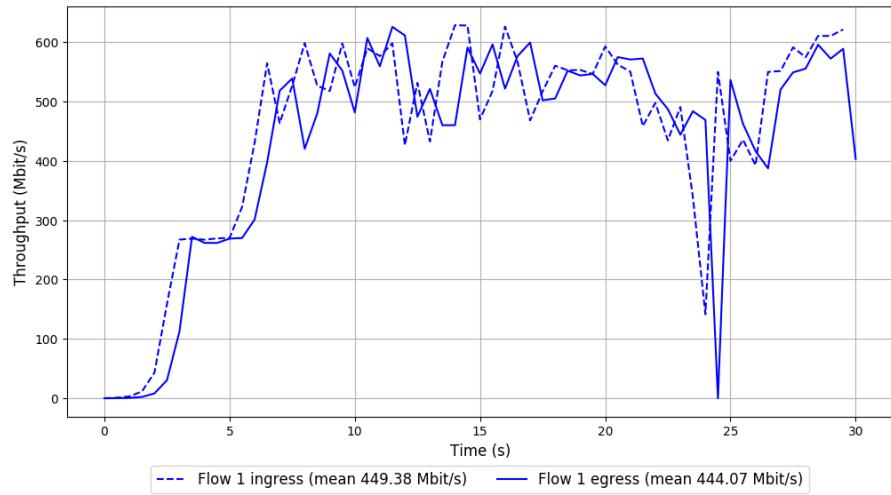


Run 4: Statistics of TCP BBR

```
Start at: 2019-11-24 12:05:00
End at: 2019-11-24 12:05:30
Local clock offset: 0.259 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-11-24 13:11:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 444.07 Mbit/s
95th percentile per-packet one-way delay: 237.686 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 444.07 Mbit/s
95th percentile per-packet one-way delay: 237.686 ms
Loss rate: 2.06%
```

Run 4: Report of TCP BBR — Data Link

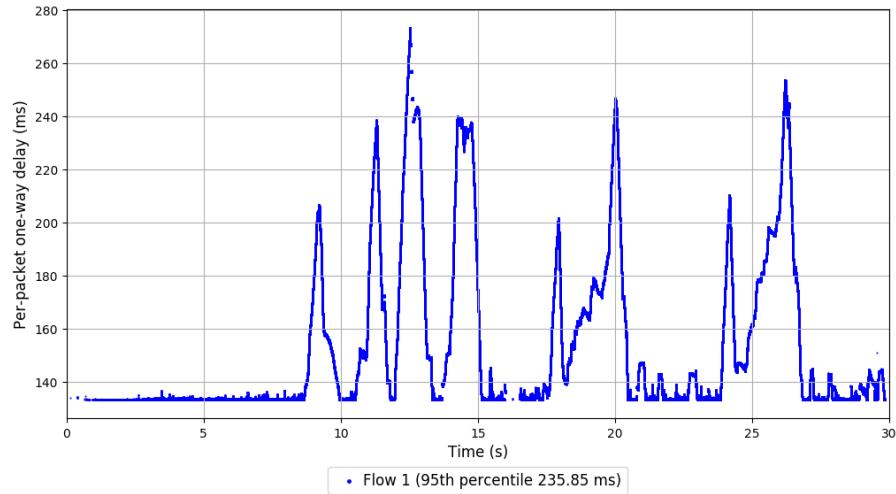
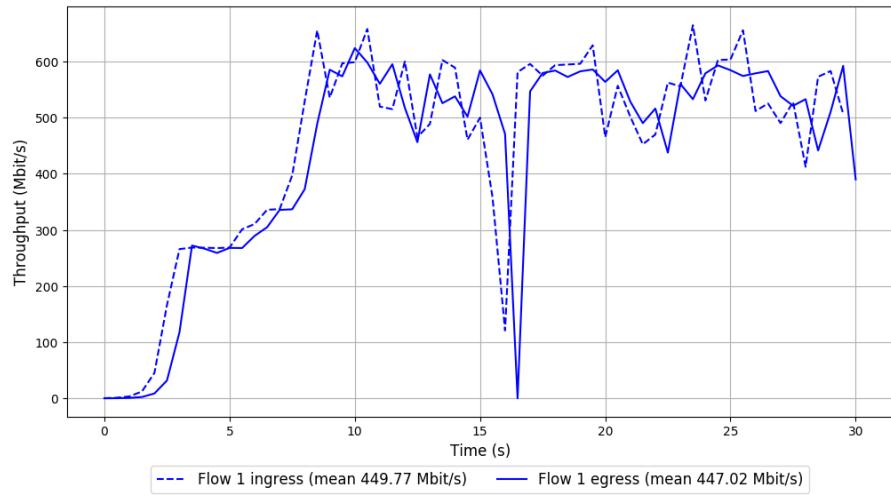


Run 5: Statistics of TCP BBR

```
Start at: 2019-11-24 12:40:45
End at: 2019-11-24 12:41:15
Local clock offset: 0.29 ms
Remote clock offset: -0.287 ms

# Below is generated by plot.py at 2019-11-24 13:11:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 447.02 Mbit/s
95th percentile per-packet one-way delay: 235.854 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 447.02 Mbit/s
95th percentile per-packet one-way delay: 235.854 ms
Loss rate: 1.49%
```

Run 5: Report of TCP BBR — Data Link

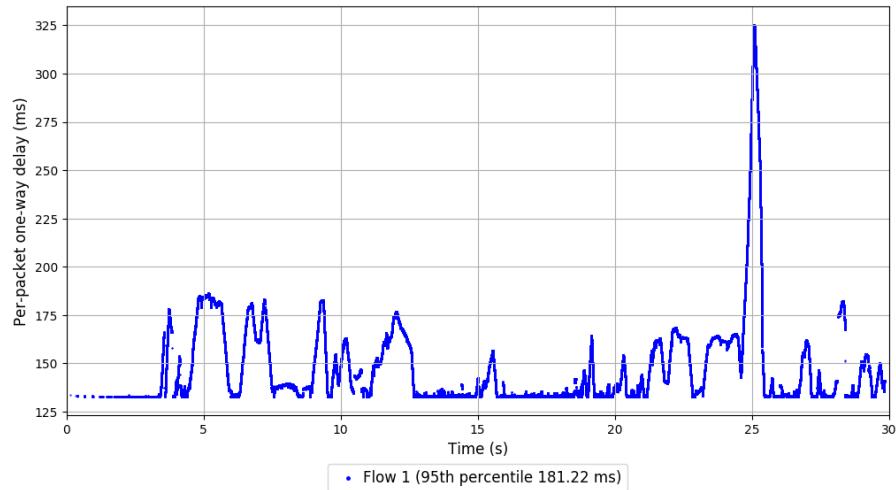
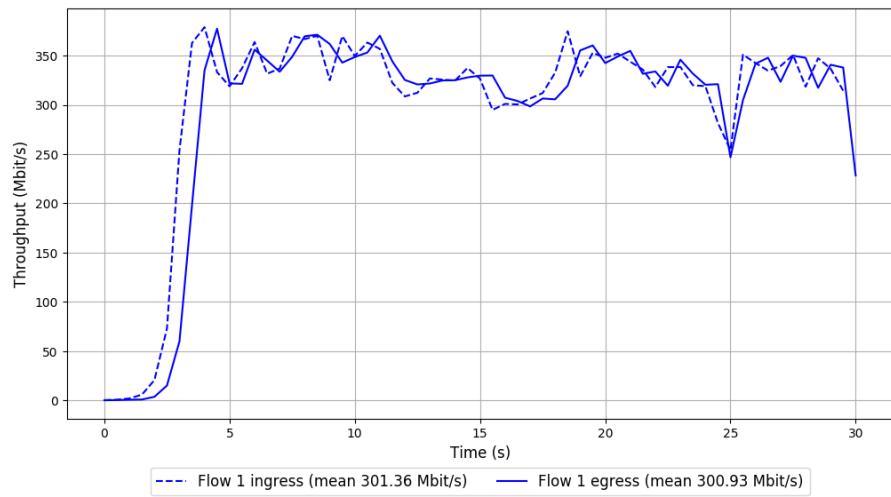


Run 1: Statistics of Copa

```
Start at: 2019-11-24 10:27:17
End at: 2019-11-24 10:27:47
Local clock offset: 0.02 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-11-24 13:12:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.93 Mbit/s
95th percentile per-packet one-way delay: 181.221 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 300.93 Mbit/s
95th percentile per-packet one-way delay: 181.221 ms
Loss rate: 1.03%
```

### Run 1: Report of Copa — Data Link

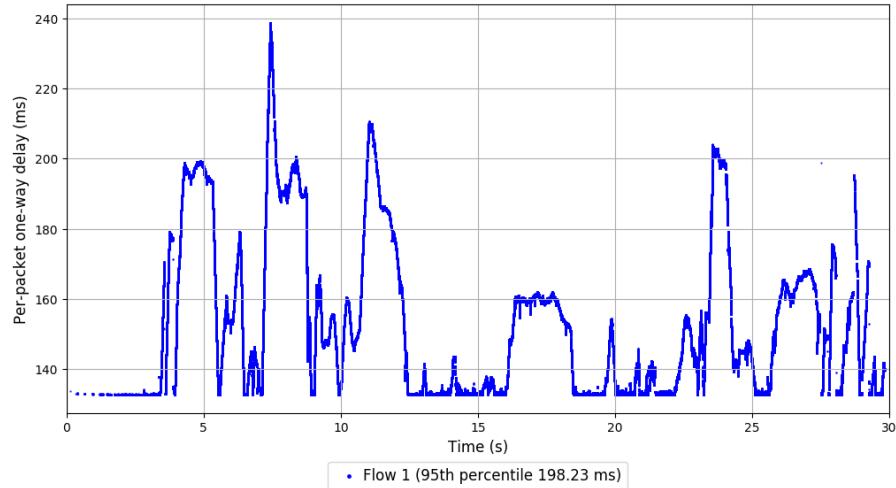
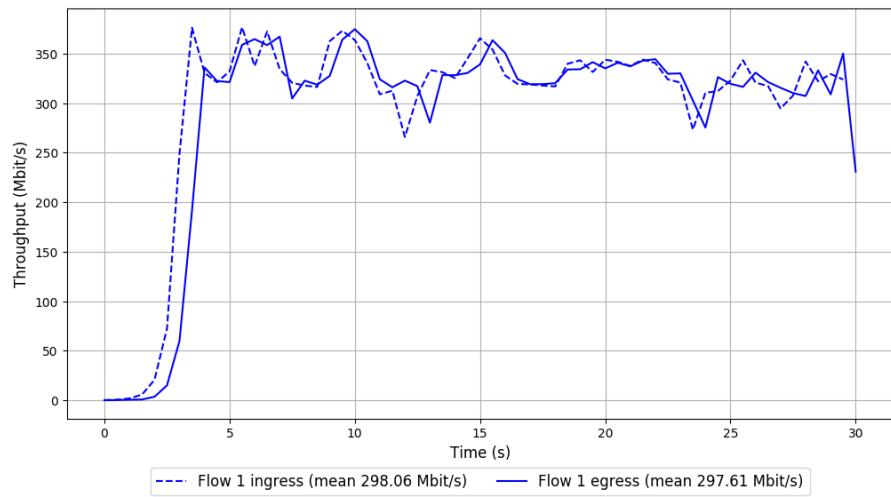


Run 2: Statistics of Copa

```
Start at: 2019-11-24 11:01:37
End at: 2019-11-24 11:02:07
Local clock offset: 0.034 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-11-24 13:12:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.61 Mbit/s
95th percentile per-packet one-way delay: 198.227 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 297.61 Mbit/s
95th percentile per-packet one-way delay: 198.227 ms
Loss rate: 1.04%
```

Run 2: Report of Copa — Data Link

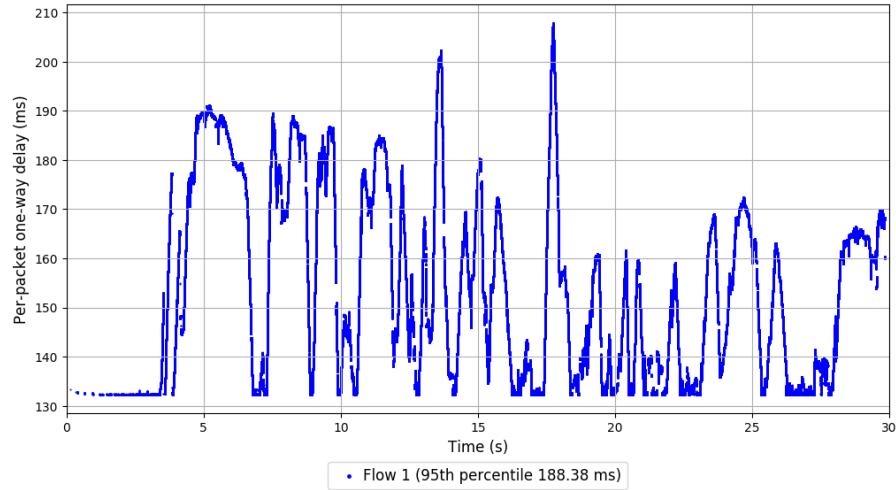
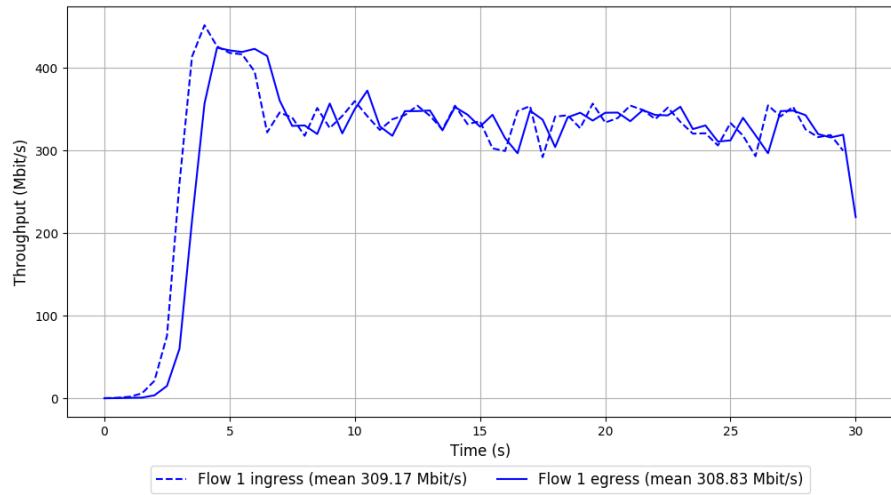


Run 3: Statistics of Copa

```
Start at: 2019-11-24 11:36:53
End at: 2019-11-24 11:37:23
Local clock offset: 0.313 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-11-24 13:13:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 308.83 Mbit/s
95th percentile per-packet one-way delay: 188.385 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 308.83 Mbit/s
95th percentile per-packet one-way delay: 188.385 ms
Loss rate: 1.00%
```

### Run 3: Report of Copa — Data Link

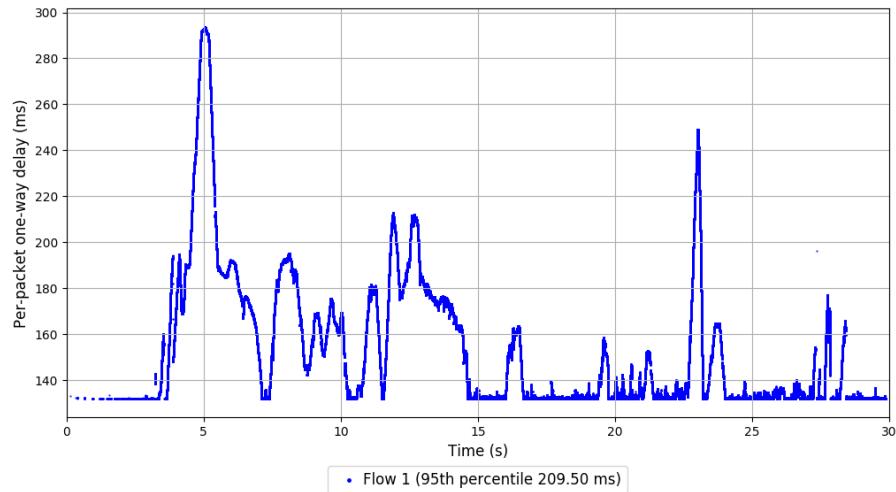
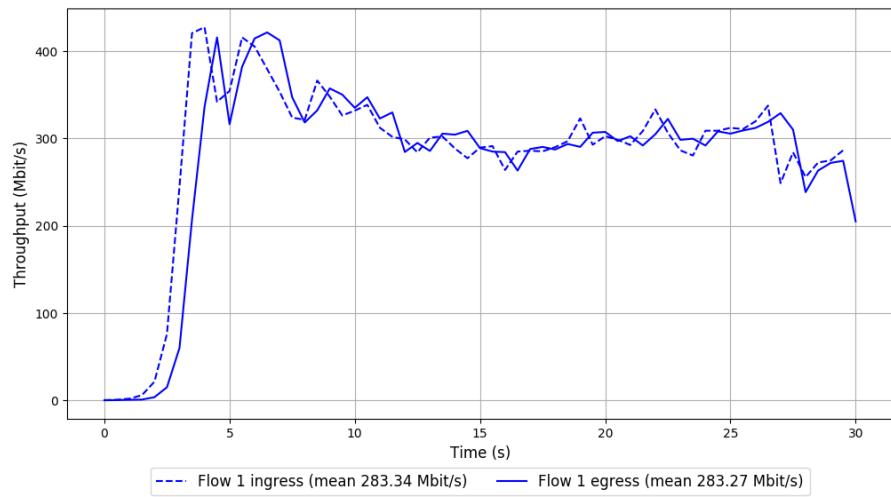


Run 4: Statistics of Copa

```
Start at: 2019-11-24 12:12:53
End at: 2019-11-24 12:13:23
Local clock offset: -0.128 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-11-24 13:19:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 283.27 Mbit/s
95th percentile per-packet one-way delay: 209.500 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 283.27 Mbit/s
95th percentile per-packet one-way delay: 209.500 ms
Loss rate: 0.91%
```

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

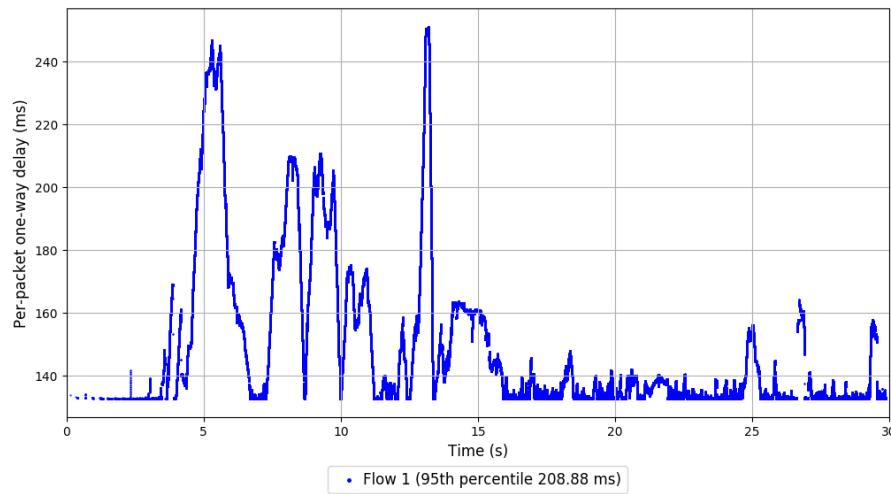
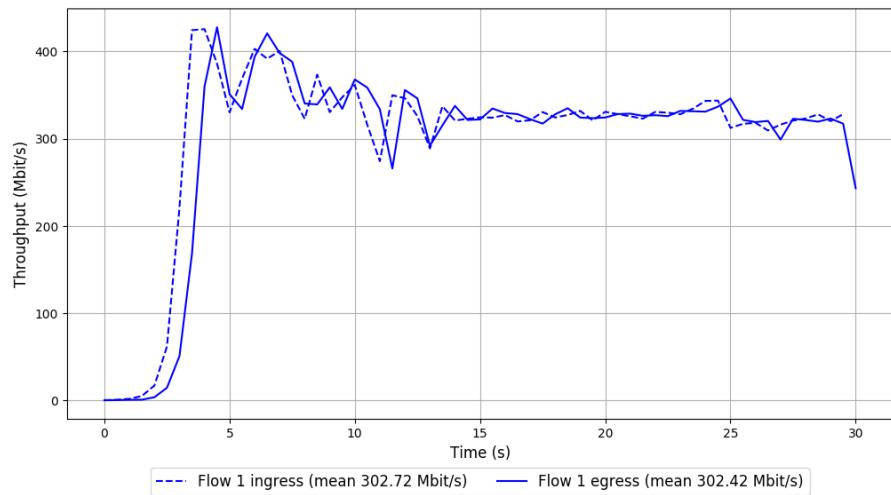


Run 5: Statistics of Copa

```
Start at: 2019-11-24 12:48:10
End at: 2019-11-24 12:48:40
Local clock offset: -0.042 ms
Remote clock offset: -0.283 ms

# Below is generated by plot.py at 2019-11-24 13:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 302.42 Mbit/s
95th percentile per-packet one-way delay: 208.877 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 302.42 Mbit/s
95th percentile per-packet one-way delay: 208.877 ms
Loss rate: 0.98%
```

### Run 5: Report of Copa — Data Link

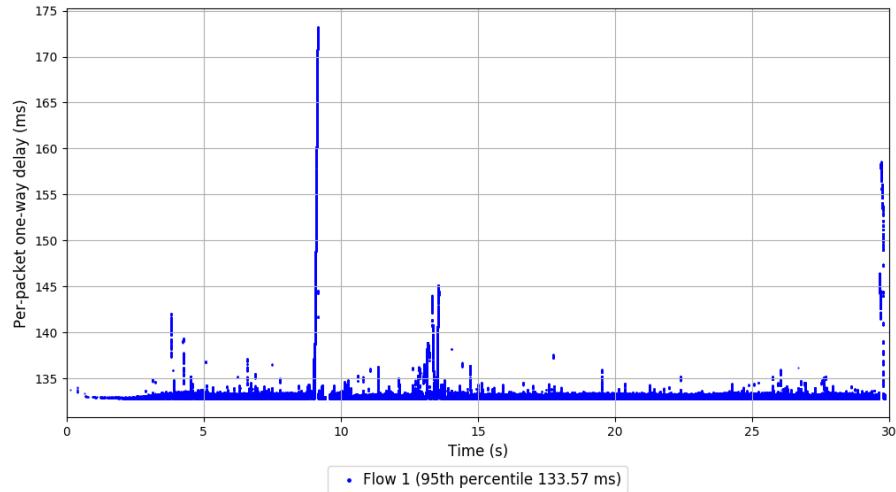
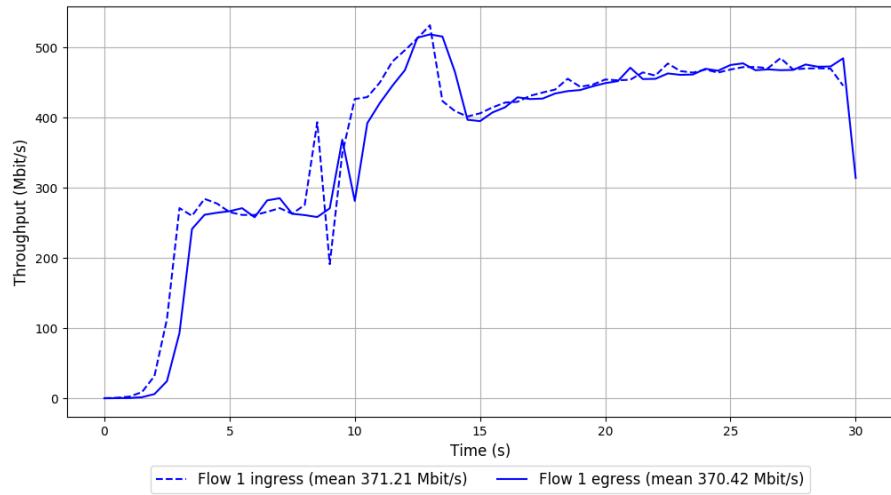


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-11-24 10:02:00
End at: 2019-11-24 10:02:30
Local clock offset: -0.078 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-11-24 13:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 370.42 Mbit/s
95th percentile per-packet one-way delay: 133.573 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 370.42 Mbit/s
95th percentile per-packet one-way delay: 133.573 ms
Loss rate: 1.10%
```

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

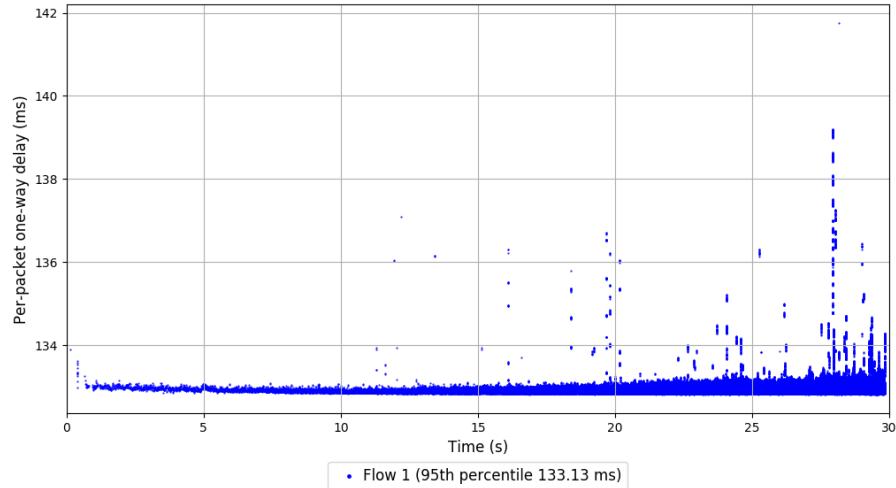
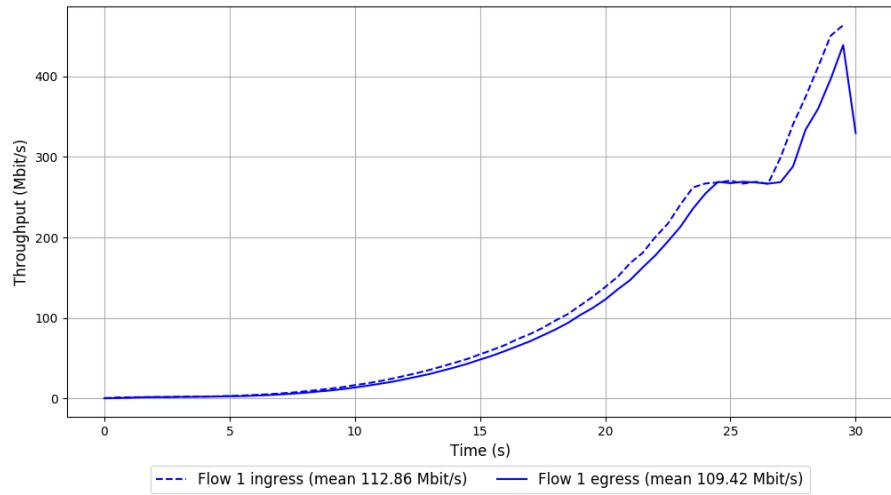


Run 2: Statistics of TCP Cubic

```
Start at: 2019-11-24 10:37:19
End at: 2019-11-24 10:37:49
Local clock offset: -0.003 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-11-24 13:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 109.42 Mbit/s
95th percentile per-packet one-way delay: 133.133 ms
Loss rate: 3.91%
-- Flow 1:
Average throughput: 109.42 Mbit/s
95th percentile per-packet one-way delay: 133.133 ms
Loss rate: 3.91%
```

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

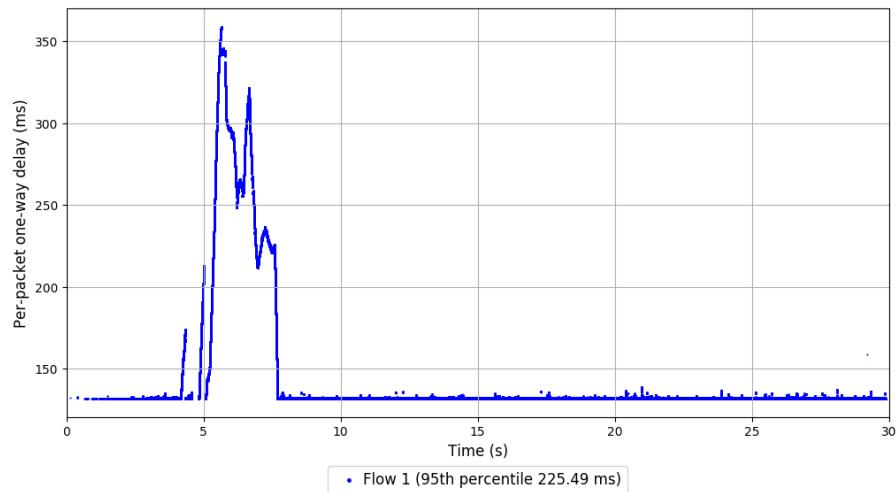
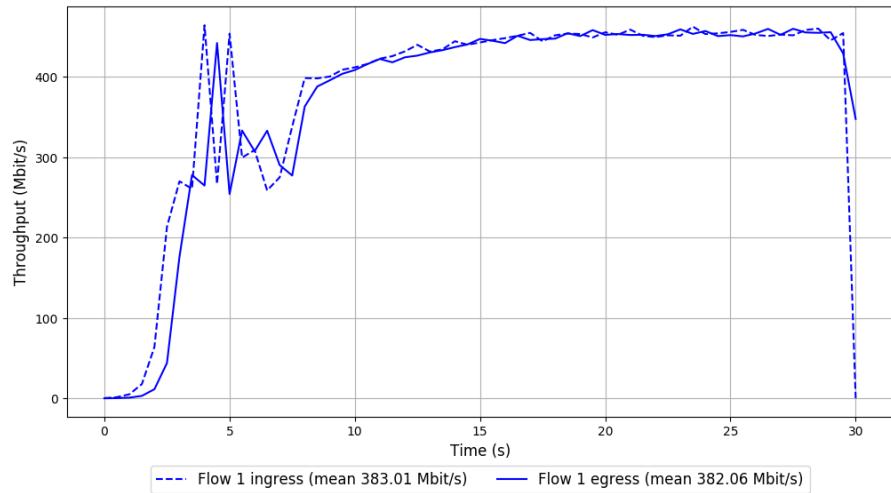


Run 3: Statistics of TCP Cubic

```
Start at: 2019-11-24 11:11:42
End at: 2019-11-24 11:12:12
Local clock offset: -0.012 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-11-24 13:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 382.06 Mbit/s
95th percentile per-packet one-way delay: 225.492 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 382.06 Mbit/s
95th percentile per-packet one-way delay: 225.492 ms
Loss rate: 1.13%
```

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

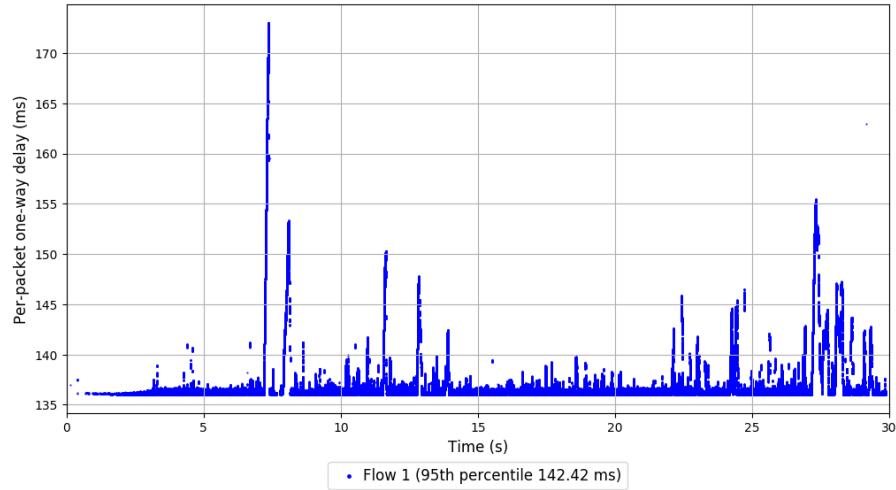
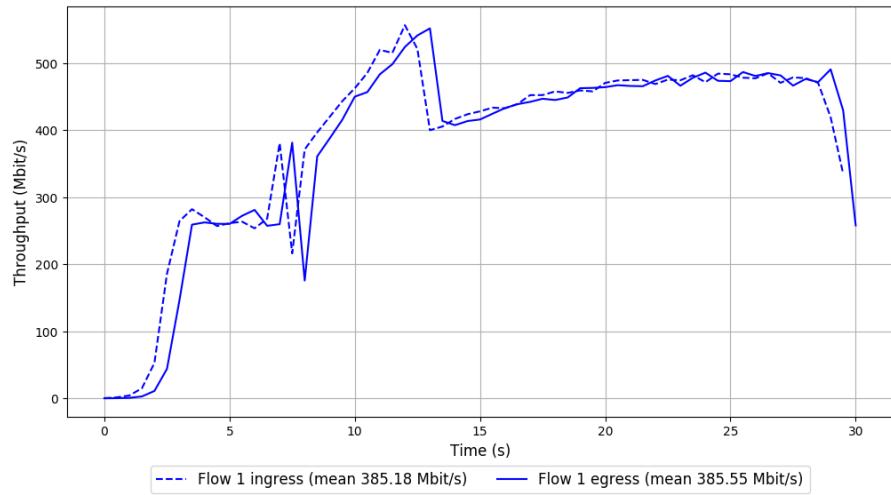


Run 4: Statistics of TCP Cubic

```
Start at: 2019-11-24 11:46:54
End at: 2019-11-24 11:47:24
Local clock offset: 0.297 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-11-24 13:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 385.55 Mbit/s
95th percentile per-packet one-way delay: 142.420 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 385.55 Mbit/s
95th percentile per-packet one-way delay: 142.420 ms
Loss rate: 0.81%
```

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

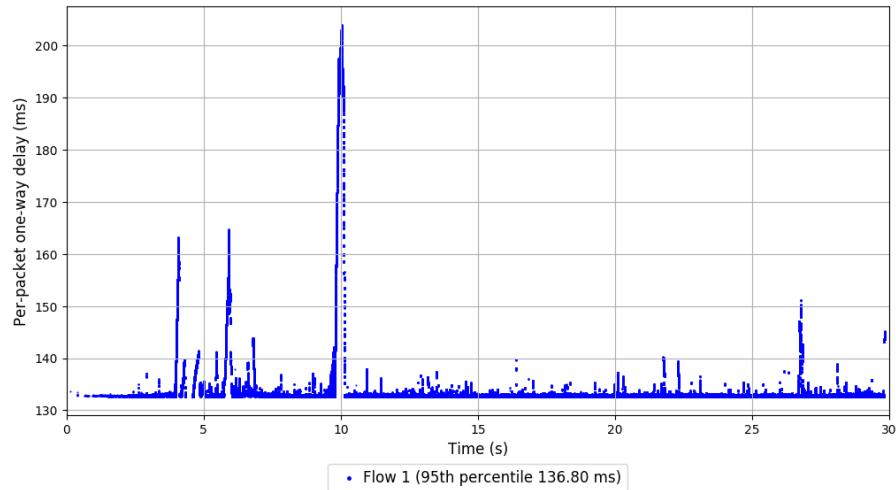
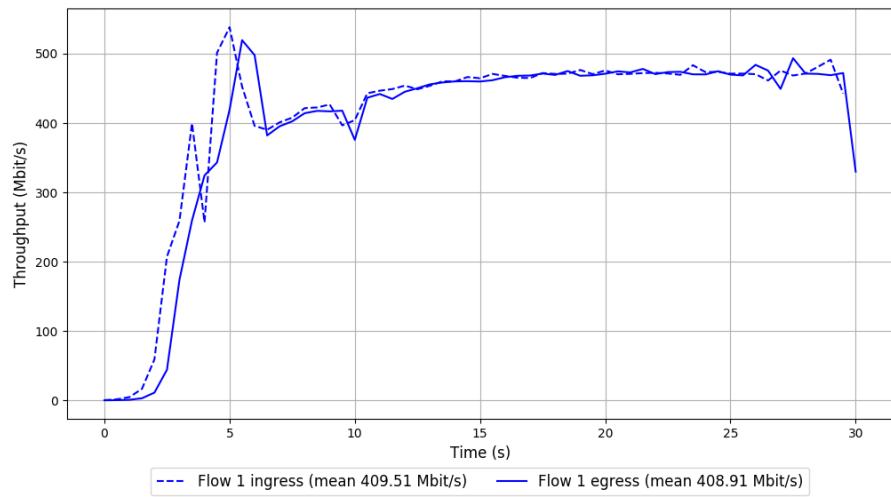


Run 5: Statistics of TCP Cubic

```
Start at: 2019-11-24 12:23:04
End at: 2019-11-24 12:23:34
Local clock offset: -0.136 ms
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2019-11-24 13:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 408.91 Mbit/s
95th percentile per-packet one-way delay: 136.796 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 408.91 Mbit/s
95th percentile per-packet one-way delay: 136.796 ms
Loss rate: 1.04%
```

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

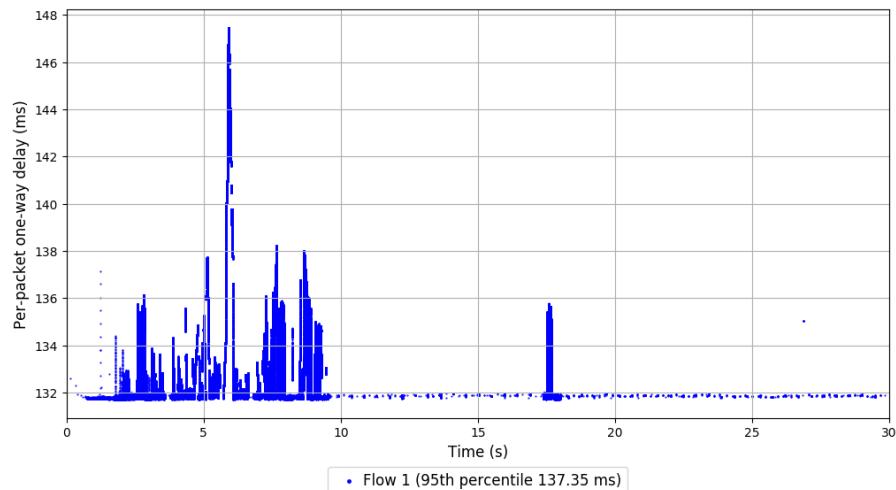
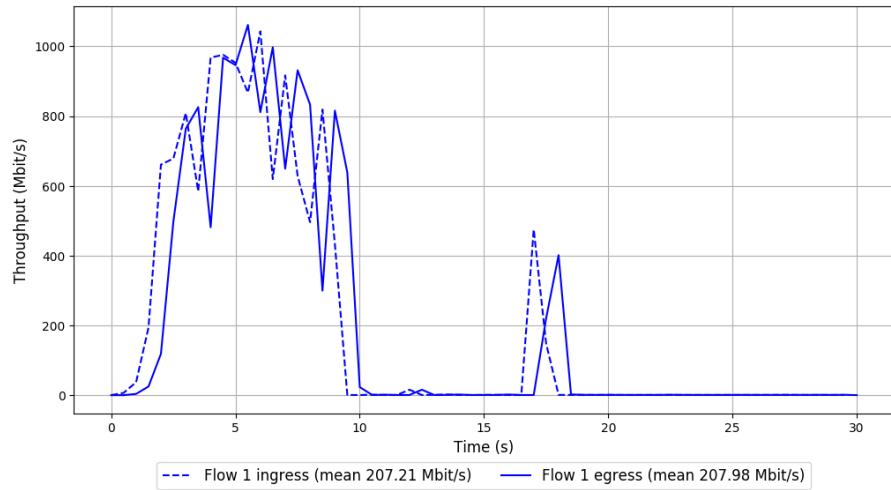


```
Run 1: Statistics of FillP
```

```
Start at: 2019-11-24 10:23:01
End at: 2019-11-24 10:23:31
Local clock offset: -0.178 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-11-24 13:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.98 Mbit/s
95th percentile per-packet one-way delay: 137.350 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 207.98 Mbit/s
95th percentile per-packet one-way delay: 137.350 ms
Loss rate: 0.00%
```

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

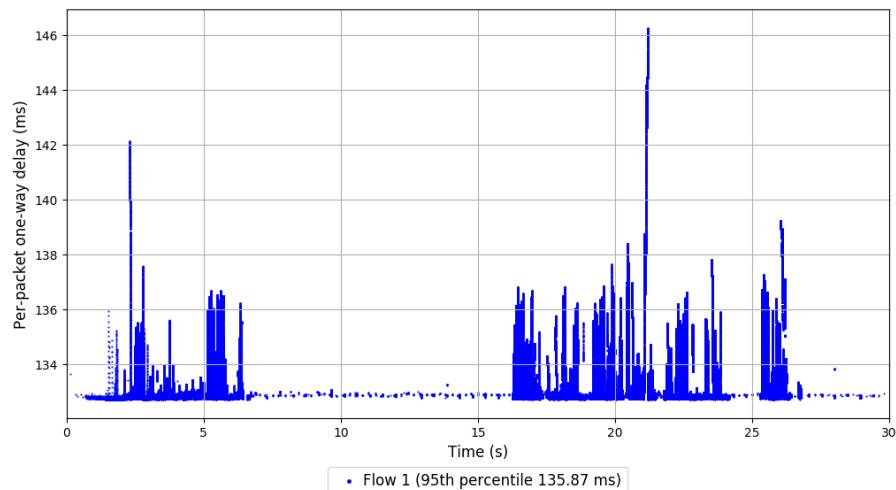
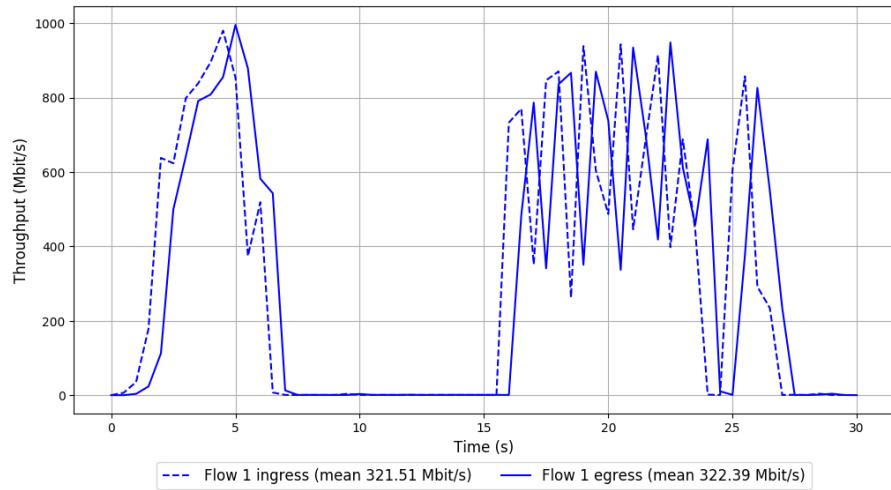


Run 2: Statistics of FillP

```
Start at: 2019-11-24 10:57:15
End at: 2019-11-24 10:57:45
Local clock offset: 0.037 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-11-24 13:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.39 Mbit/s
95th percentile per-packet one-way delay: 135.865 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 322.39 Mbit/s
95th percentile per-packet one-way delay: 135.865 ms
Loss rate: 0.00%
```

## Run 2: Report of FillP — Data Link

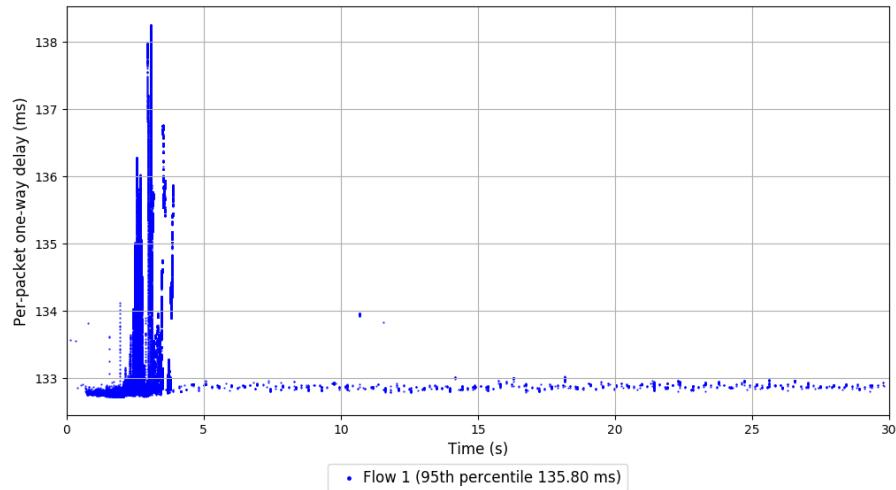
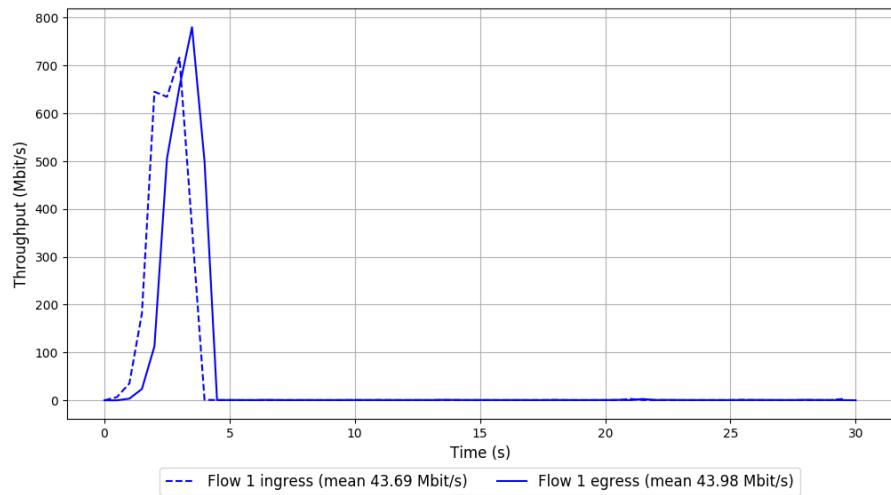


Run 3: Statistics of FillP

```
Start at: 2019-11-24 11:32:44
End at: 2019-11-24 11:33:14
Local clock offset: -0.036 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-11-24 13:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.98 Mbit/s
95th percentile per-packet one-way delay: 135.801 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 43.98 Mbit/s
95th percentile per-packet one-way delay: 135.801 ms
Loss rate: 0.11%
```

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

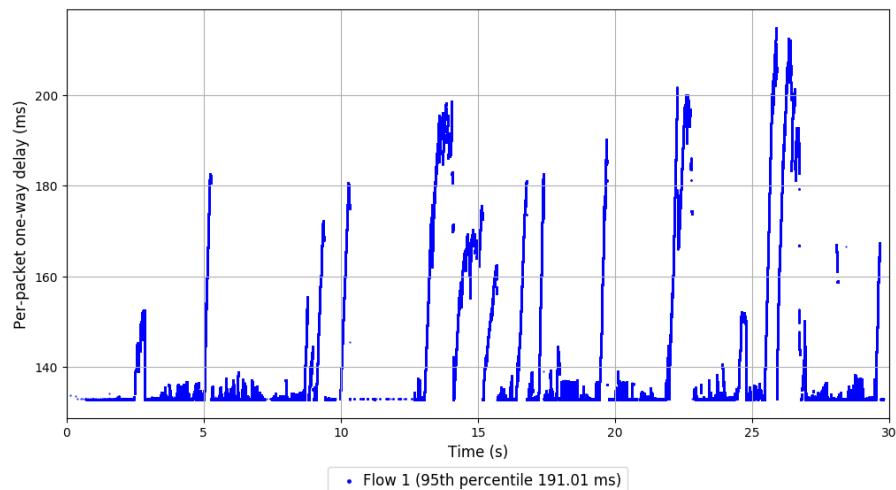
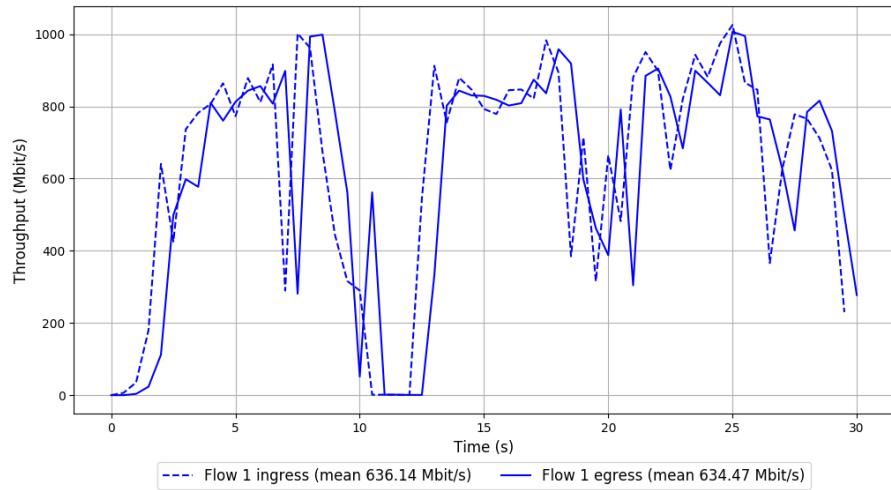


Run 4: Statistics of FillP

```
Start at: 2019-11-24 12:08:16
End at: 2019-11-24 12:08:46
Local clock offset: -0.101 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-11-24 13:31:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 634.47 Mbit/s
95th percentile per-packet one-way delay: 191.010 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 634.47 Mbit/s
95th percentile per-packet one-way delay: 191.010 ms
Loss rate: 1.19%
```

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

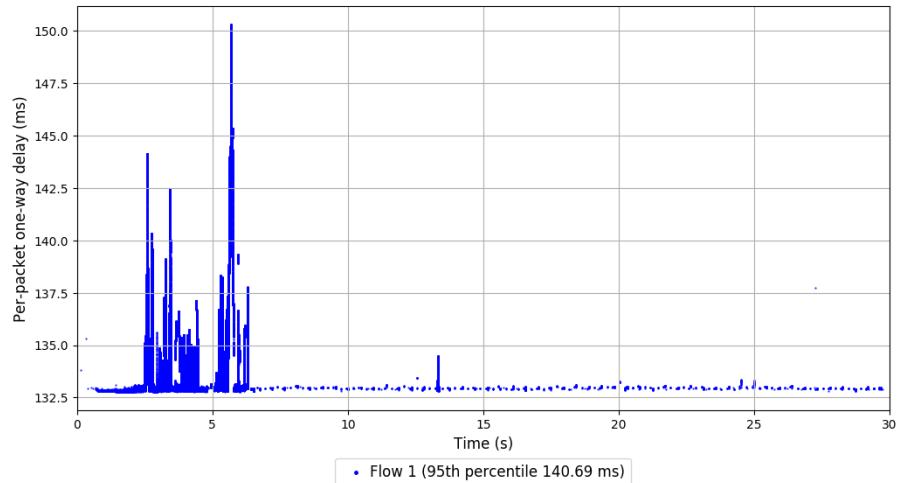
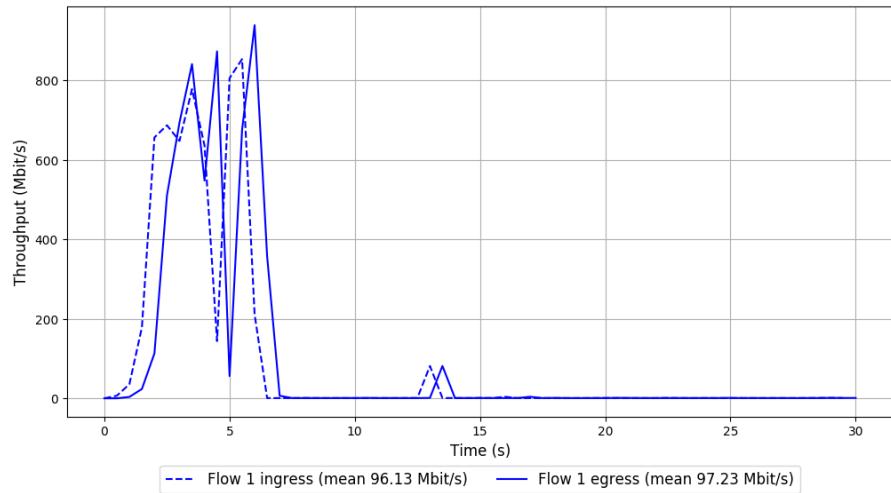


Run 5: Statistics of FillP

```
Start at: 2019-11-24 12:43:57
End at: 2019-11-24 12:44:27
Local clock offset: -0.056 ms
Remote clock offset: -0.283 ms

# Below is generated by plot.py at 2019-11-24 13:31:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.23 Mbit/s
95th percentile per-packet one-way delay: 140.694 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.23 Mbit/s
95th percentile per-packet one-way delay: 140.694 ms
Loss rate: 0.00%
```

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

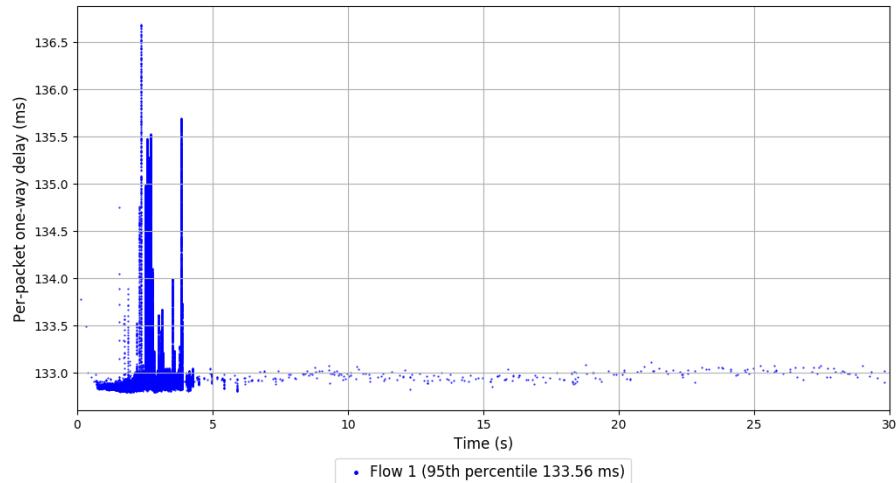
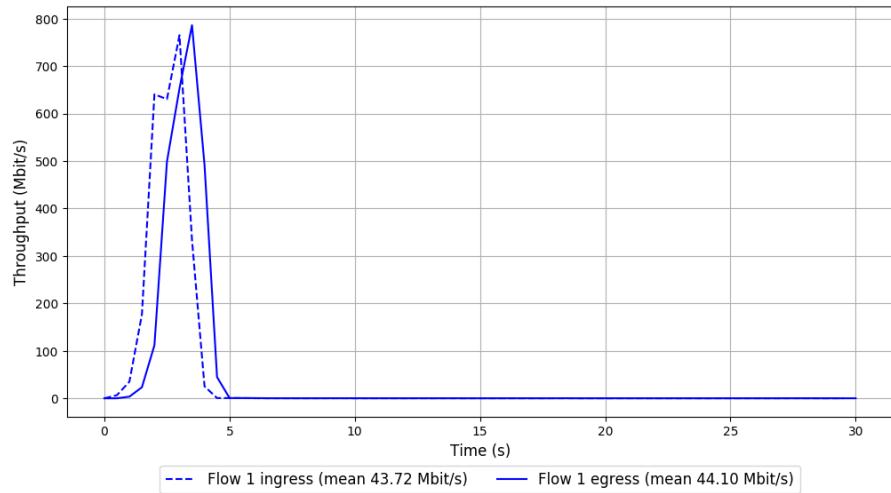


Run 1: Statistics of FillP-Sheep

```
Start at: 2019-11-24 10:30:40
End at: 2019-11-24 10:31:10
Local clock offset: -0.003 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-11-24 13:31:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.10 Mbit/s
95th percentile per-packet one-way delay: 133.555 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.10 Mbit/s
95th percentile per-packet one-way delay: 133.555 ms
Loss rate: 0.00%
```

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

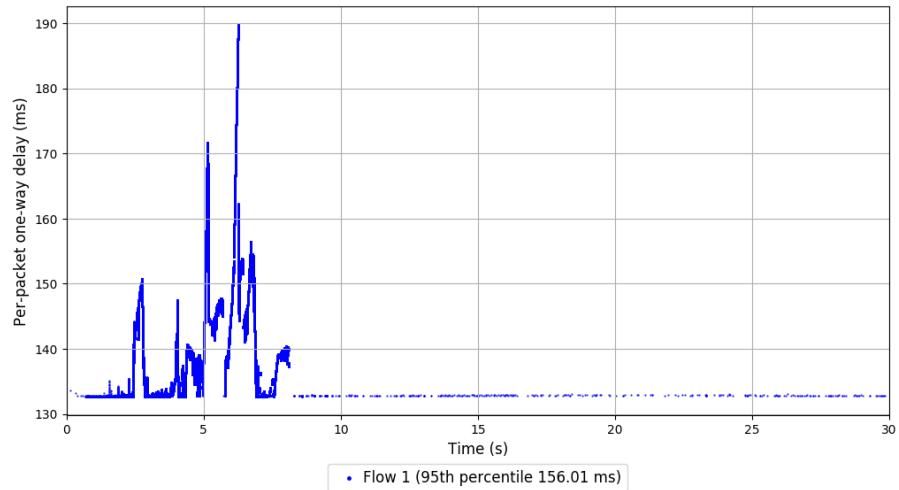
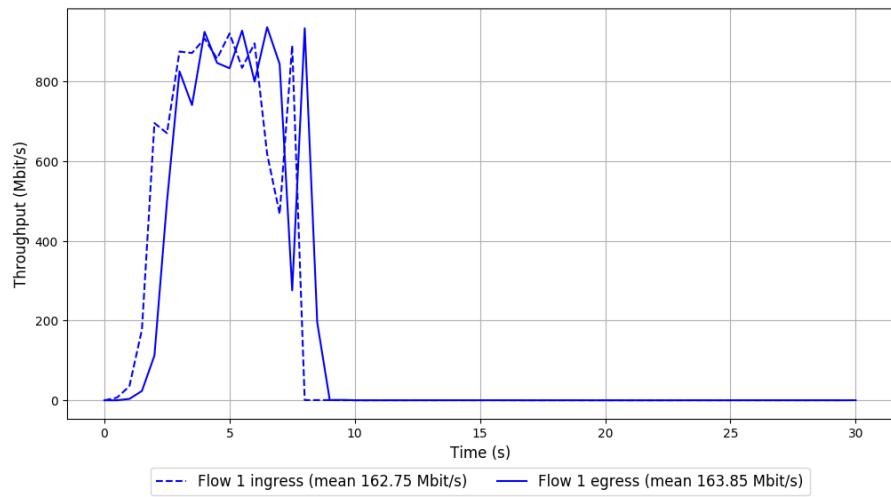


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-11-24 11:05:00
End at: 2019-11-24 11:05:30
Local clock offset: 0.036 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-11-24 13:31:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 163.85 Mbit/s
95th percentile per-packet one-way delay: 156.014 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 163.85 Mbit/s
95th percentile per-packet one-way delay: 156.014 ms
Loss rate: 0.03%
```

Run 2: Report of FillP-Sheep — Data Link

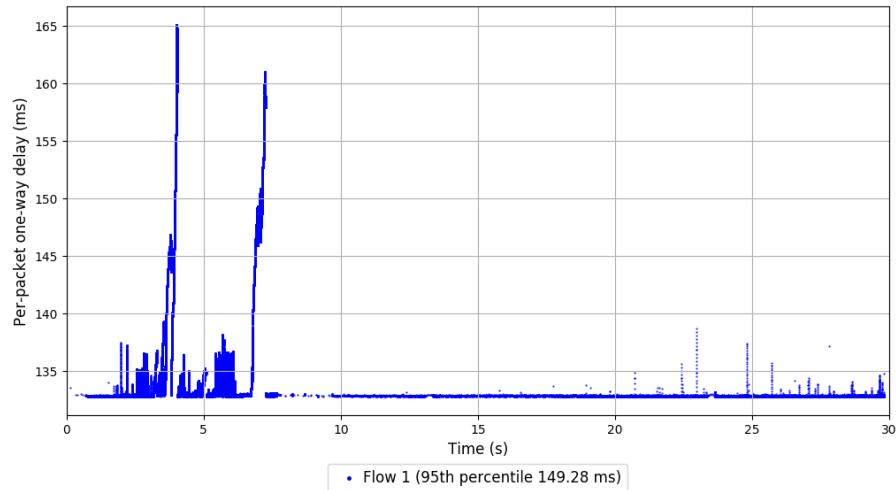
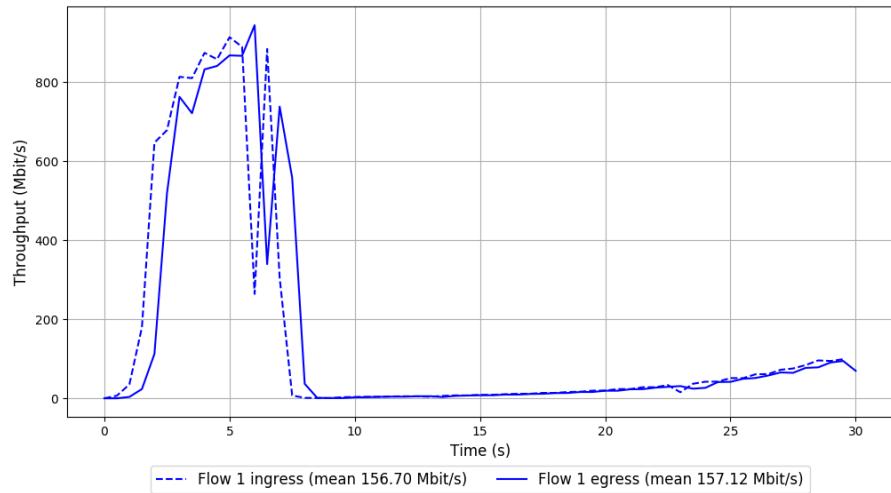


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-11-24 11:40:13
End at: 2019-11-24 11:40:43
Local clock offset: -0.041 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-11-24 13:31:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.12 Mbit/s
95th percentile per-packet one-way delay: 149.275 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 157.12 Mbit/s
95th percentile per-packet one-way delay: 149.275 ms
Loss rate: 0.62%
```

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

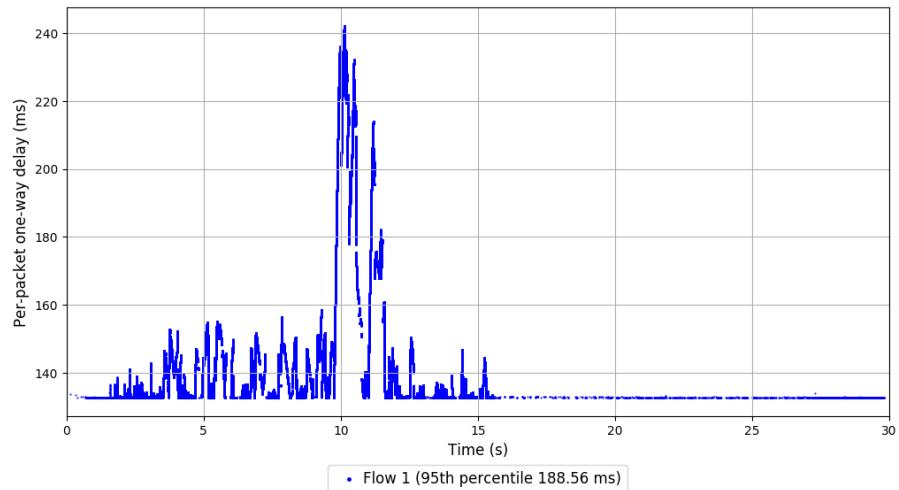
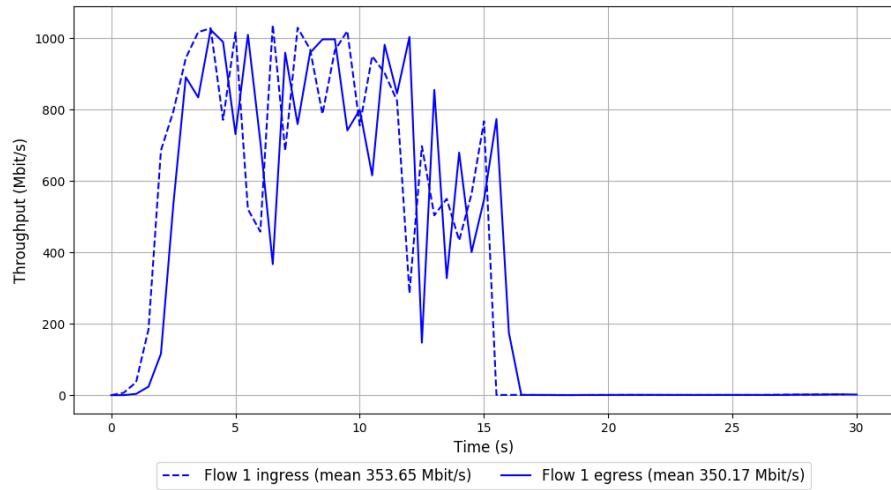


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-11-24 12:16:11
End at: 2019-11-24 12:16:41
Local clock offset: -0.13 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-11-24 13:31:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 350.17 Mbit/s
95th percentile per-packet one-way delay: 188.565 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 350.17 Mbit/s
95th percentile per-packet one-way delay: 188.565 ms
Loss rate: 1.86%
```

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

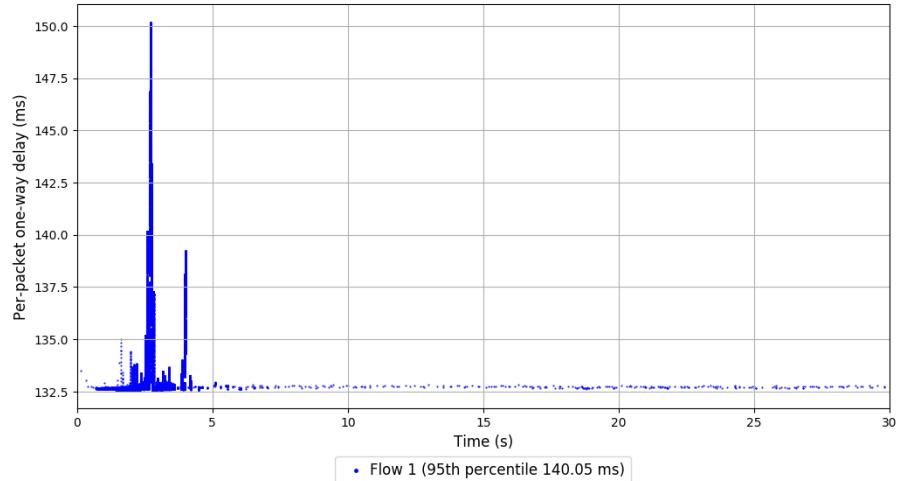
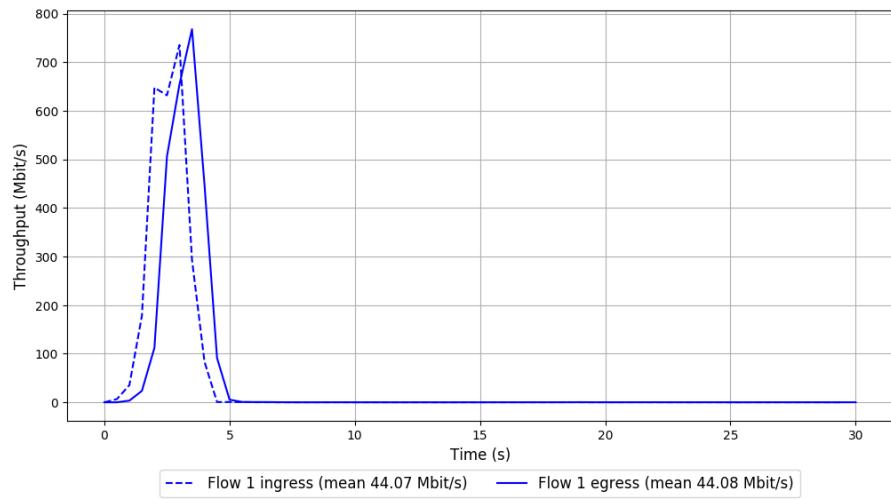


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-11-24 12:51:33
End at: 2019-11-24 12:52:03
Local clock offset: -0.119 ms
Remote clock offset: -0.322 ms

# Below is generated by plot.py at 2019-11-24 13:31:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.08 Mbit/s
95th percentile per-packet one-way delay: 140.052 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.08 Mbit/s
95th percentile per-packet one-way delay: 140.052 ms
Loss rate: 0.00%
```

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

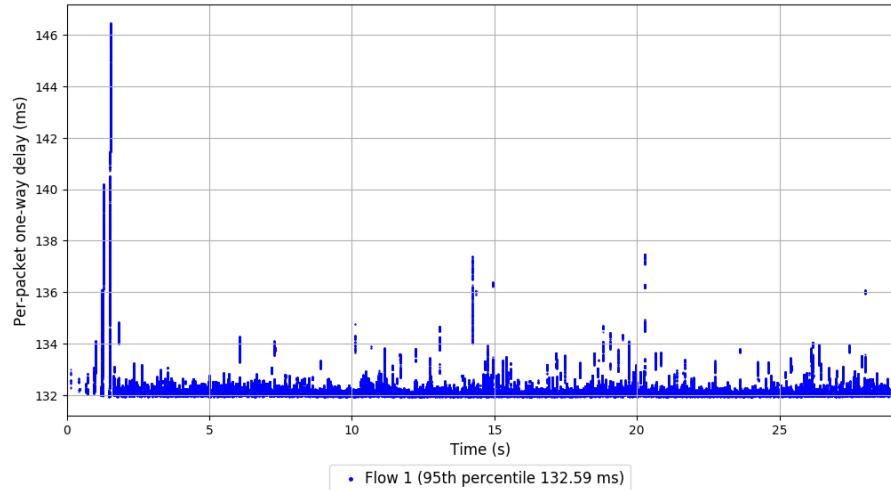
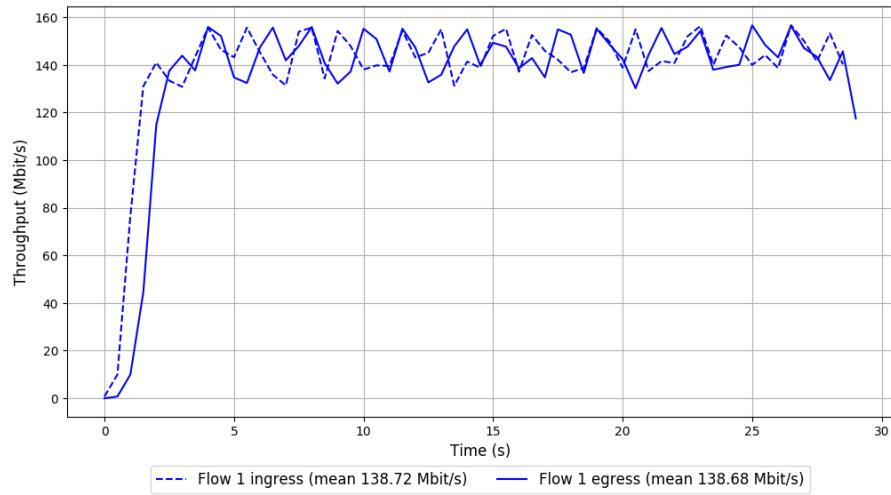


Run 1: Statistics of Indigo

```
Start at: 2019-11-24 10:00:35
End at: 2019-11-24 10:01:05
Local clock offset: -0.087 ms
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2019-11-24 13:31:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 138.68 Mbit/s
95th percentile per-packet one-way delay: 132.590 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 138.68 Mbit/s
95th percentile per-packet one-way delay: 132.590 ms
Loss rate: 0.95%
```

## Run 1: Report of Indigo — Data Link

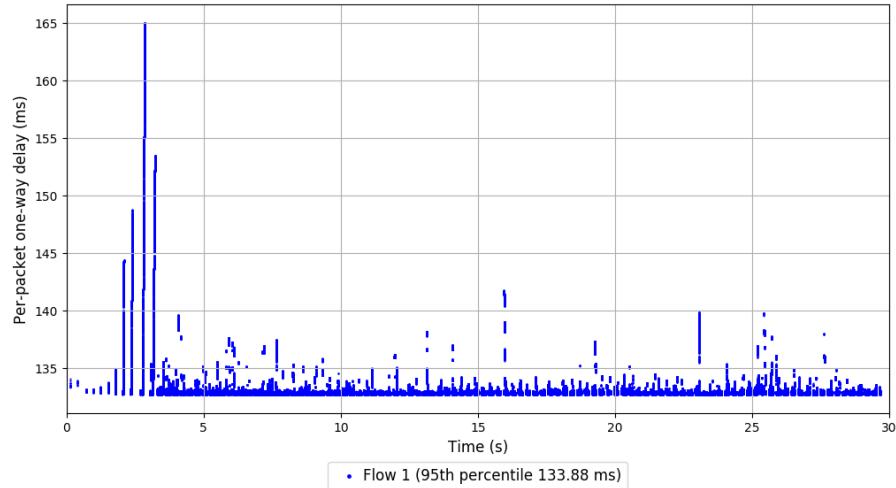
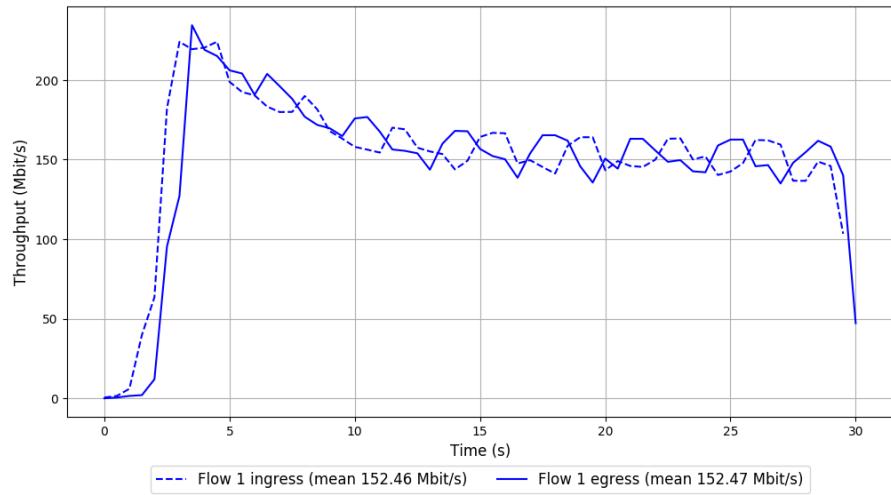


Run 2: Statistics of Indigo

```
Start at: 2019-11-24 10:35:52
End at: 2019-11-24 10:36:22
Local clock offset: 0.008 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-11-24 13:31:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.47 Mbit/s
95th percentile per-packet one-way delay: 133.880 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 152.47 Mbit/s
95th percentile per-packet one-way delay: 133.880 ms
Loss rate: 0.89%
```

Run 2: Report of Indigo — Data Link

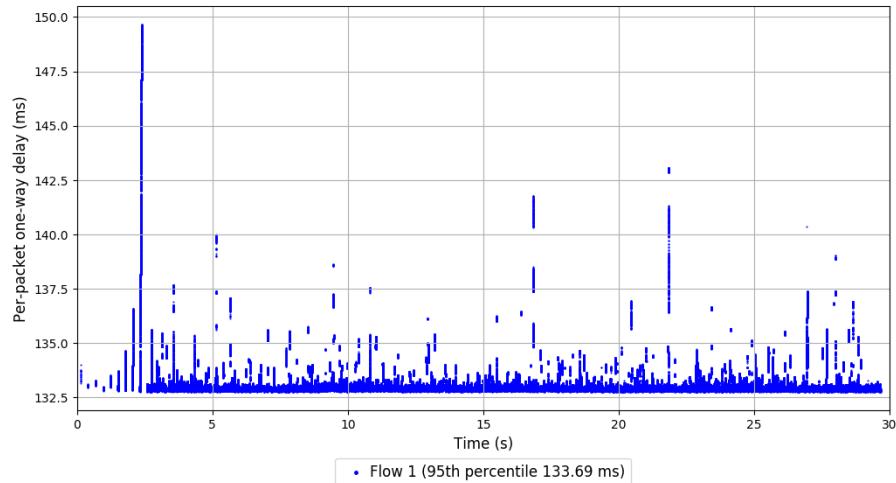
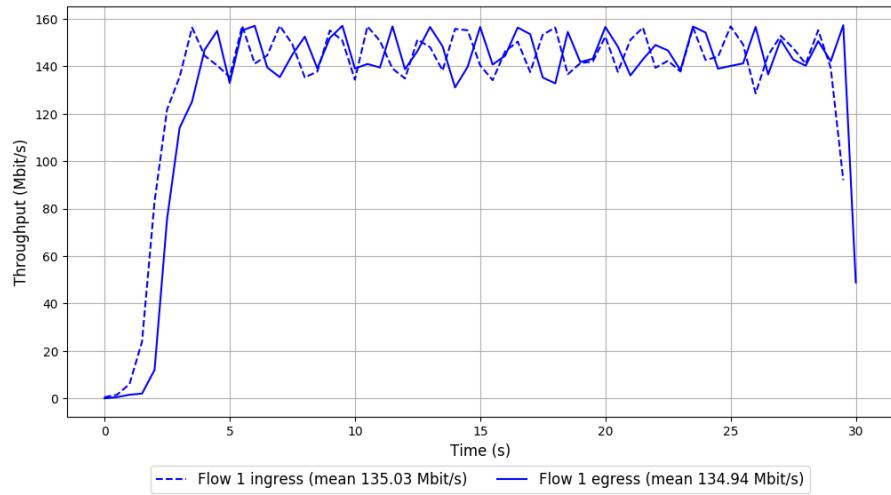


Run 3: Statistics of Indigo

```
Start at: 2019-11-24 11:10:17
End at: 2019-11-24 11:10:47
Local clock offset: 0.0 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-11-24 13:31:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.94 Mbit/s
95th percentile per-packet one-way delay: 133.691 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 134.94 Mbit/s
95th percentile per-packet one-way delay: 133.691 ms
Loss rate: 0.96%
```

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

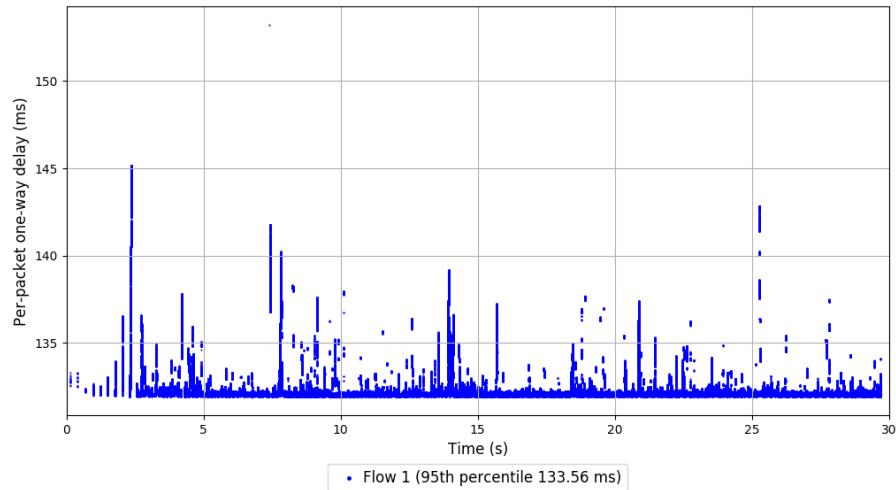
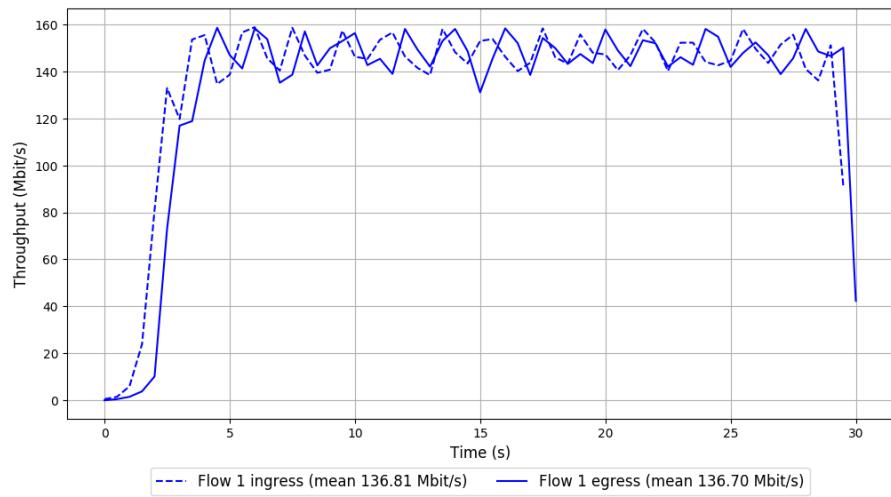


Run 4: Statistics of Indigo

```
Start at: 2019-11-24 11:45:28
End at: 2019-11-24 11:45:58
Local clock offset: -0.092 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-11-24 13:31:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 136.70 Mbit/s
95th percentile per-packet one-way delay: 133.556 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 136.70 Mbit/s
95th percentile per-packet one-way delay: 133.556 ms
Loss rate: 0.97%
```

Run 4: Report of Indigo — Data Link

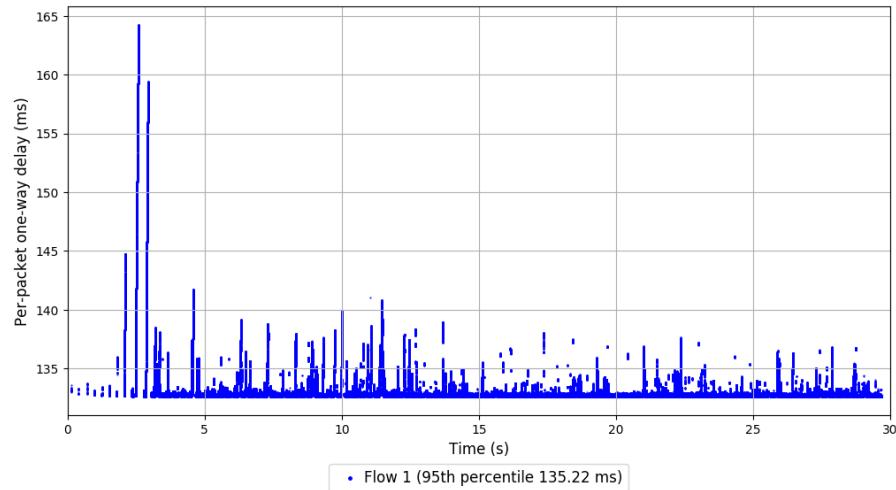
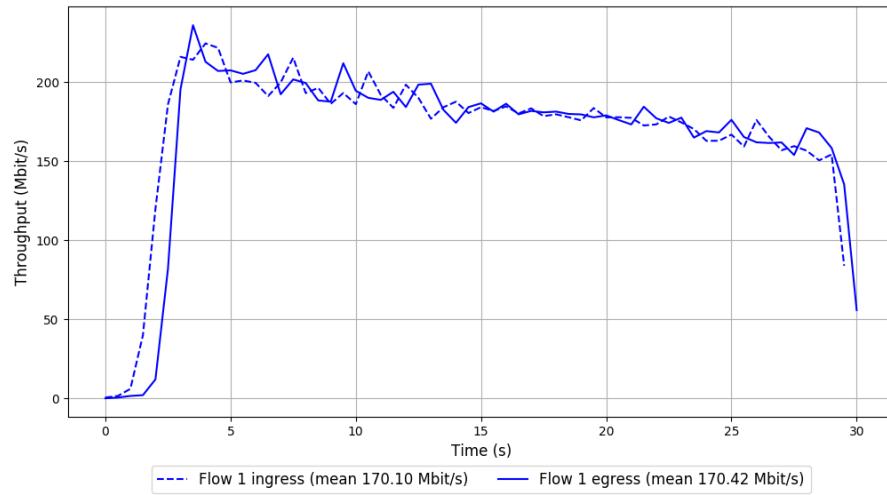


Run 5: Statistics of Indigo

```
Start at: 2019-11-24 12:21:35
End at: 2019-11-24 12:22:05
Local clock offset: -0.101 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-11-24 13:31:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 170.42 Mbit/s
95th percentile per-packet one-way delay: 135.219 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 170.42 Mbit/s
95th percentile per-packet one-way delay: 135.219 ms
Loss rate: 0.71%
```

## Run 5: Report of Indigo — Data Link

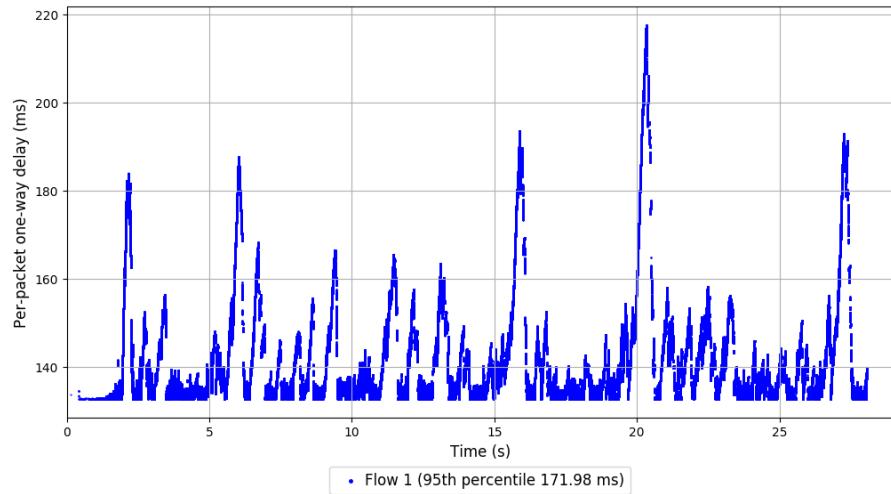
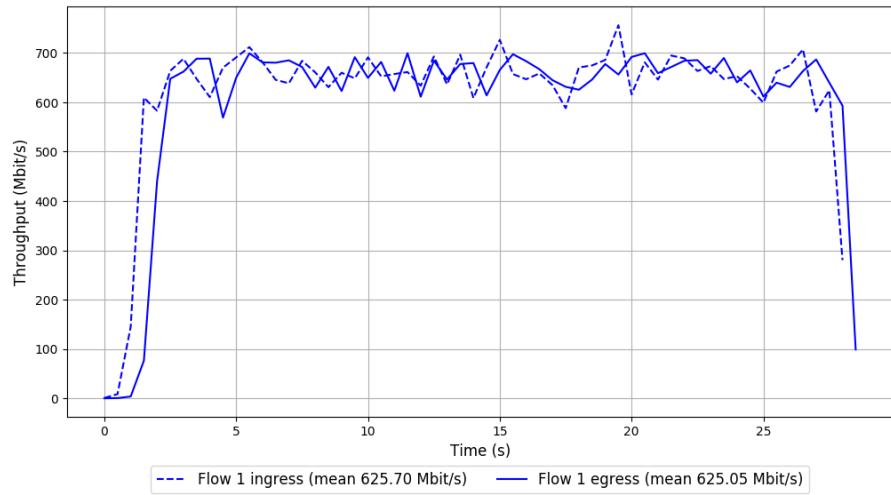


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-11-24 10:10:44
End at: 2019-11-24 10:11:14
Local clock offset: -0.053 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-11-24 13:34:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 625.05 Mbit/s
95th percentile per-packet one-way delay: 171.984 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 625.05 Mbit/s
95th percentile per-packet one-way delay: 171.984 ms
Loss rate: 1.05%
```

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

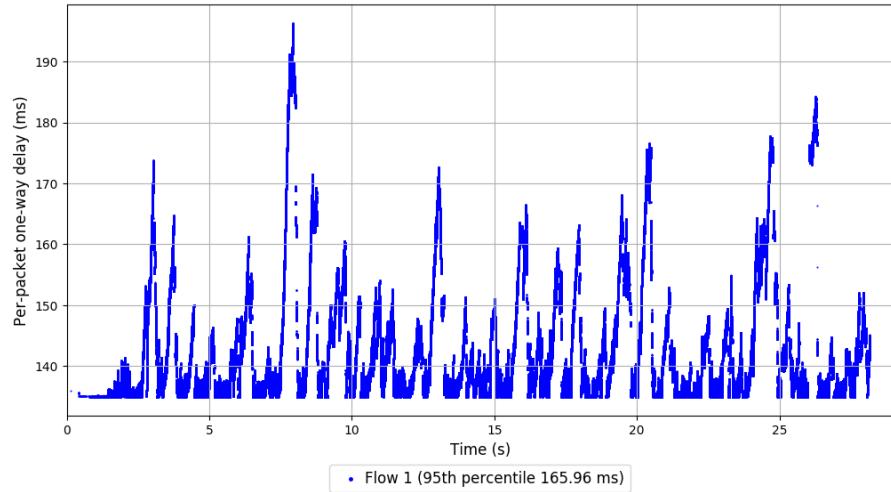
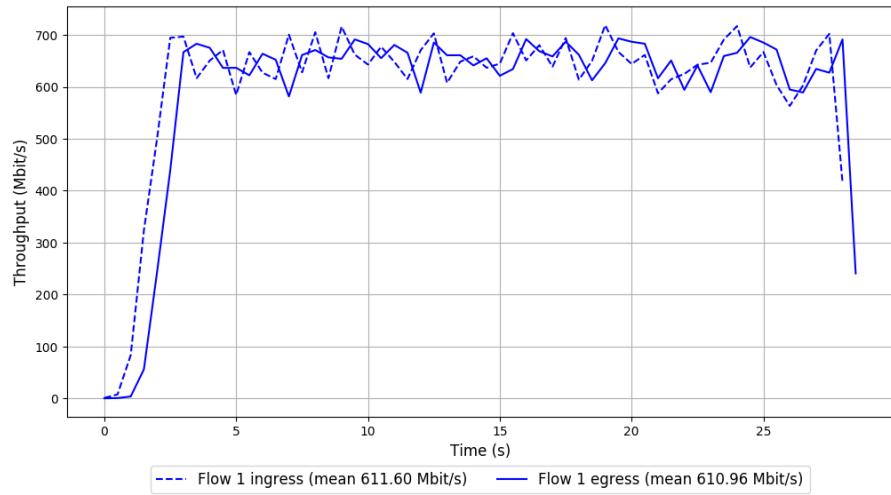


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-11-24 10:46:07
End at: 2019-11-24 10:46:37
Local clock offset: 0.018 ms
Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2019-11-24 13:36:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 610.96 Mbit/s
95th percentile per-packet one-way delay: 165.964 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 610.96 Mbit/s
95th percentile per-packet one-way delay: 165.964 ms
Loss rate: 1.05%
```

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

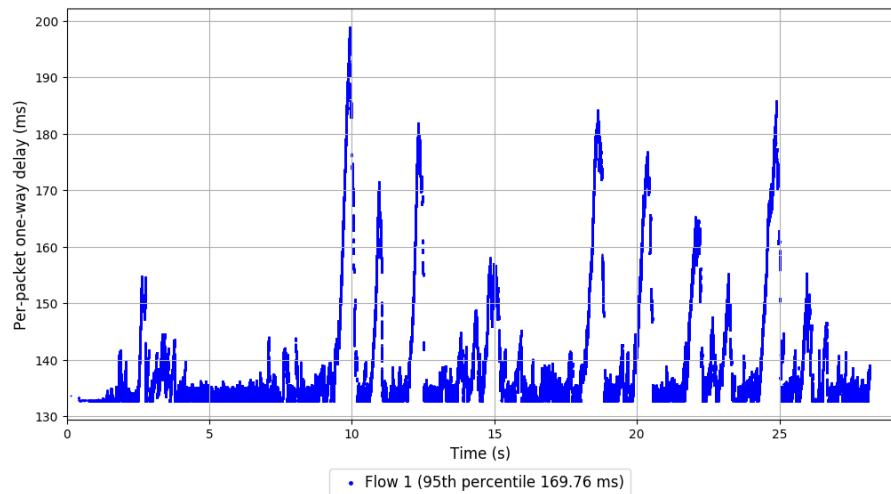
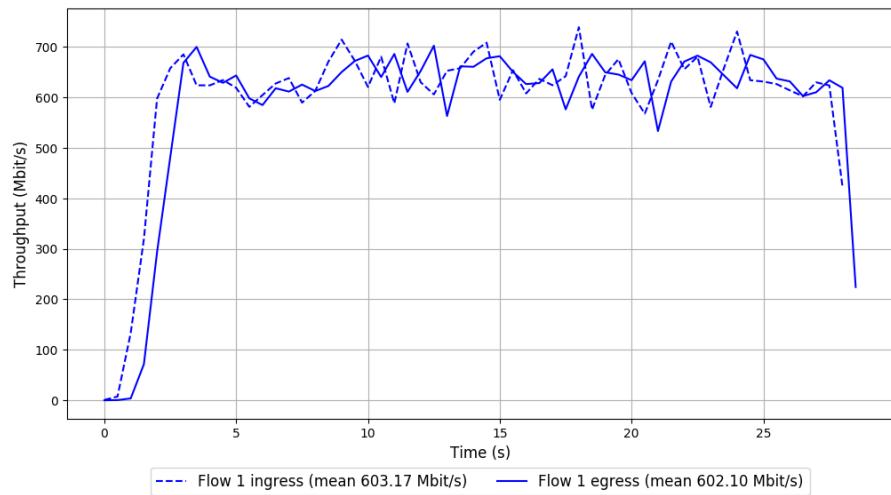


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-11-24 11:20:58
End at: 2019-11-24 11:21:28
Local clock offset: 0.005 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-11-24 13:36:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 602.10 Mbit/s
95th percentile per-packet one-way delay: 169.760 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 602.10 Mbit/s
95th percentile per-packet one-way delay: 169.760 ms
Loss rate: 1.12%
```

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

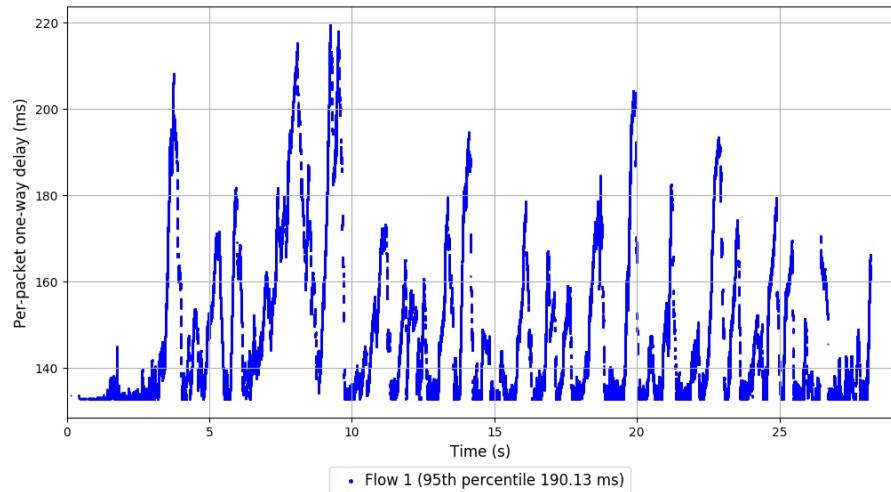
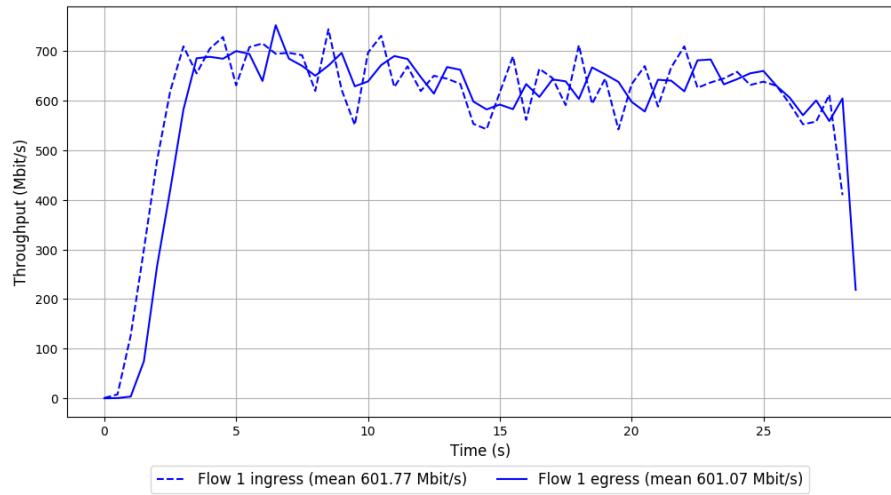


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-11-24 11:55:58
End at: 2019-11-24 11:56:28
Local clock offset: -0.04 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-11-24 13:37:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 601.07 Mbit/s
95th percentile per-packet one-way delay: 190.133 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 601.07 Mbit/s
95th percentile per-packet one-way delay: 190.133 ms
Loss rate: 1.06%
```

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

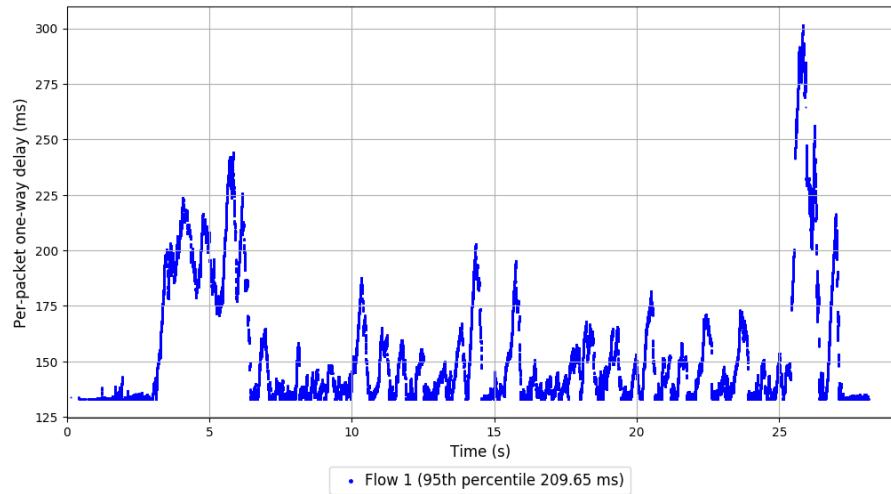
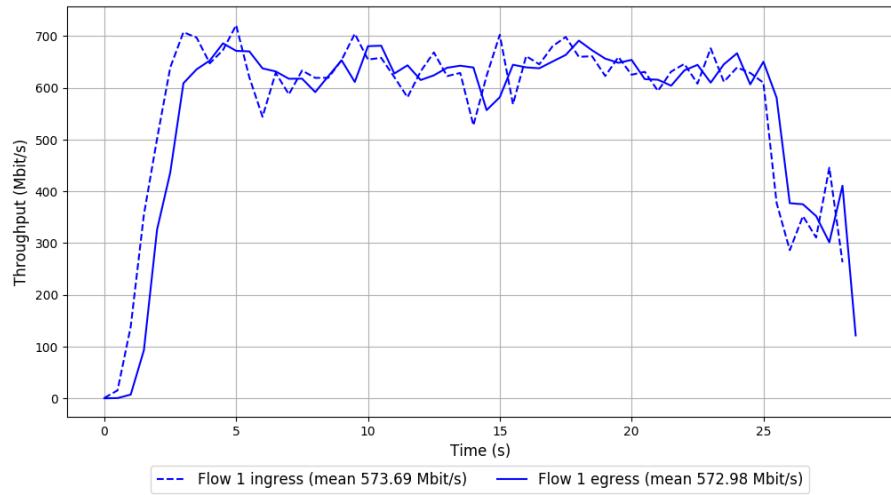


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-11-24 12:31:49
End at: 2019-11-24 12:32:19
Local clock offset: 0.244 ms
Remote clock offset: -0.224 ms

# Below is generated by plot.py at 2019-11-24 13:37:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 572.98 Mbit/s
95th percentile per-packet one-way delay: 209.653 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 572.98 Mbit/s
95th percentile per-packet one-way delay: 209.653 ms
Loss rate: 1.07%
```

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

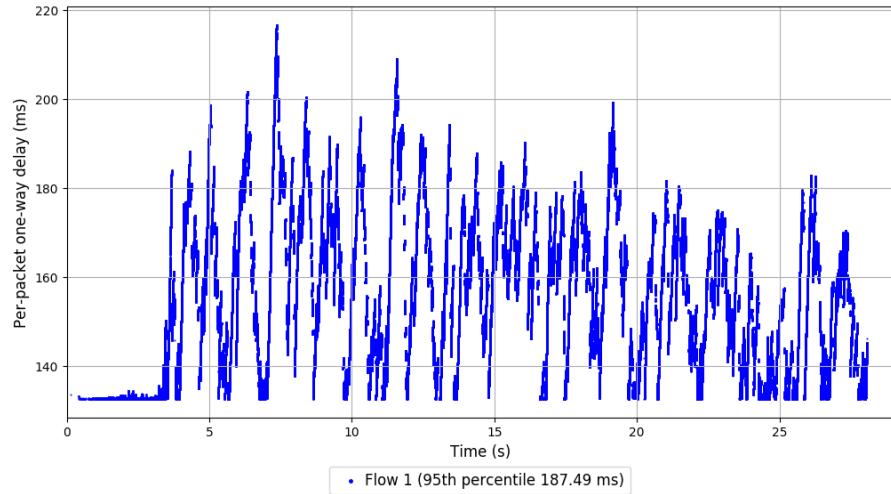
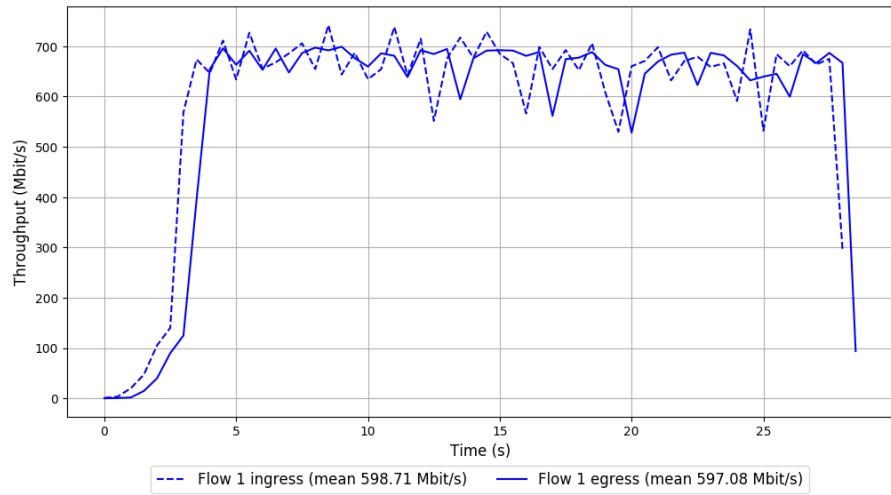


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-11-24 10:25:36
End at: 2019-11-24 10:26:06
Local clock offset: 0.014 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-11-24 13:38:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 597.08 Mbit/s
95th percentile per-packet one-way delay: 187.485 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 597.08 Mbit/s
95th percentile per-packet one-way delay: 187.485 ms
Loss rate: 1.21%
```

## Run 1: Report of Indigo-MusesC5 — Data Link

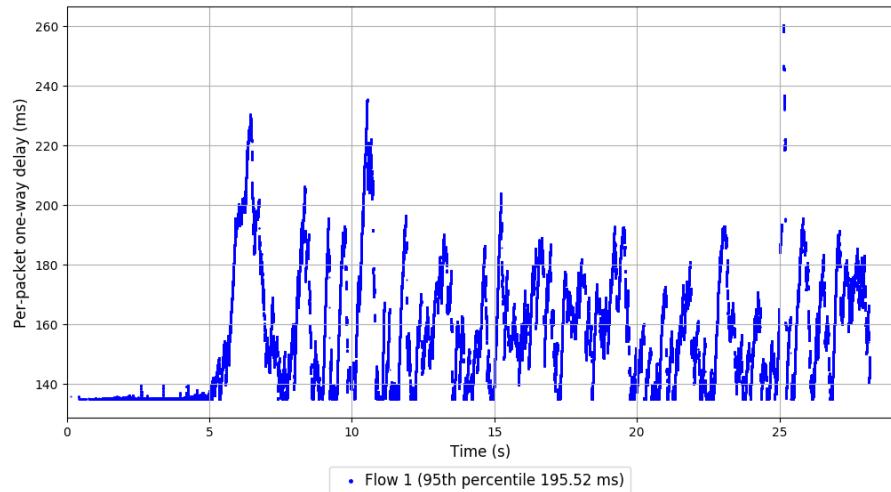
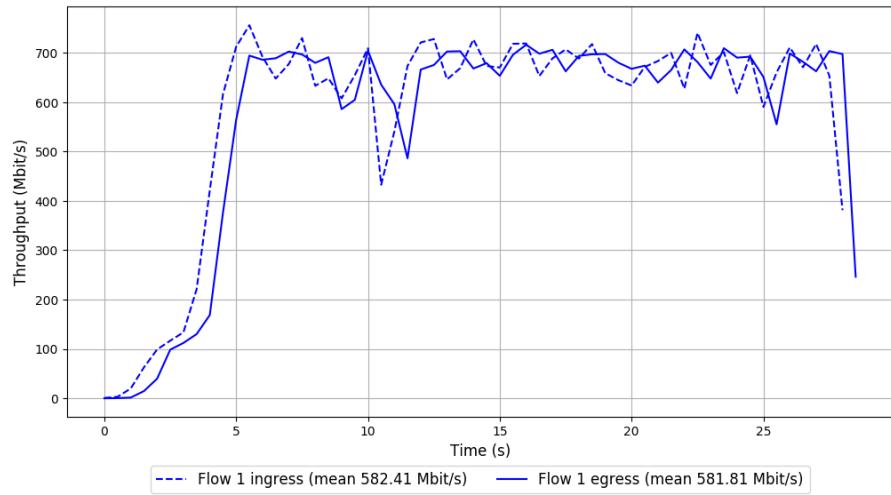


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-11-24 10:59:56
End at: 2019-11-24 11:00:26
Local clock offset: 0.066 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2019-11-24 13:39:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 581.81 Mbit/s
95th percentile per-packet one-way delay: 195.521 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 581.81 Mbit/s
95th percentile per-packet one-way delay: 195.521 ms
Loss rate: 1.05%
```

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

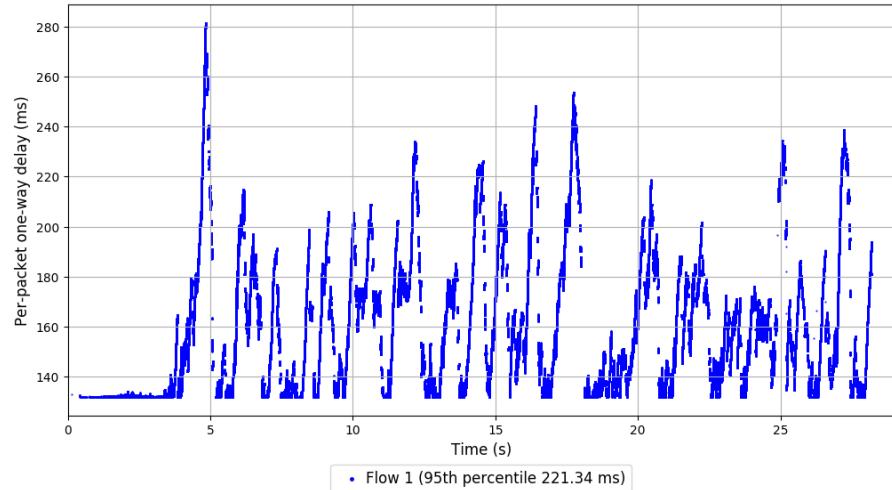
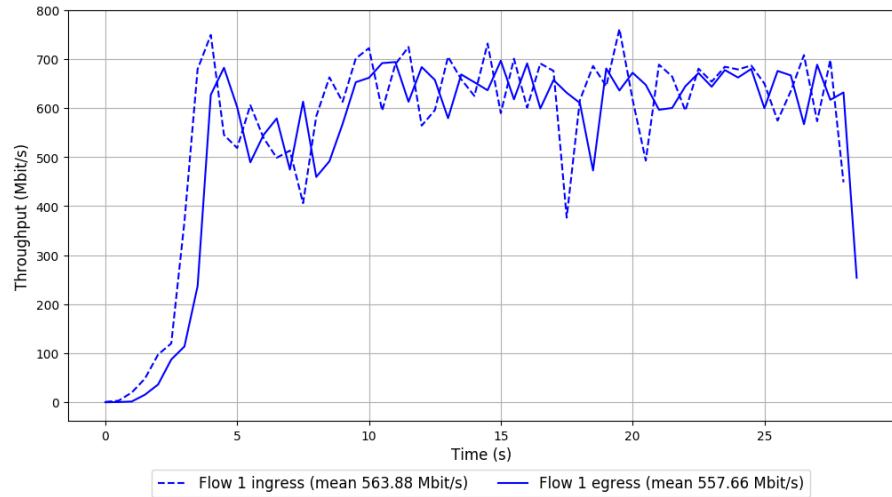


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-11-24 11:35:13
End at: 2019-11-24 11:35:43
Local clock offset: -0.031 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-11-24 13:42:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 557.66 Mbit/s
95th percentile per-packet one-way delay: 221.336 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 557.66 Mbit/s
95th percentile per-packet one-way delay: 221.336 ms
Loss rate: 2.04%
```

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

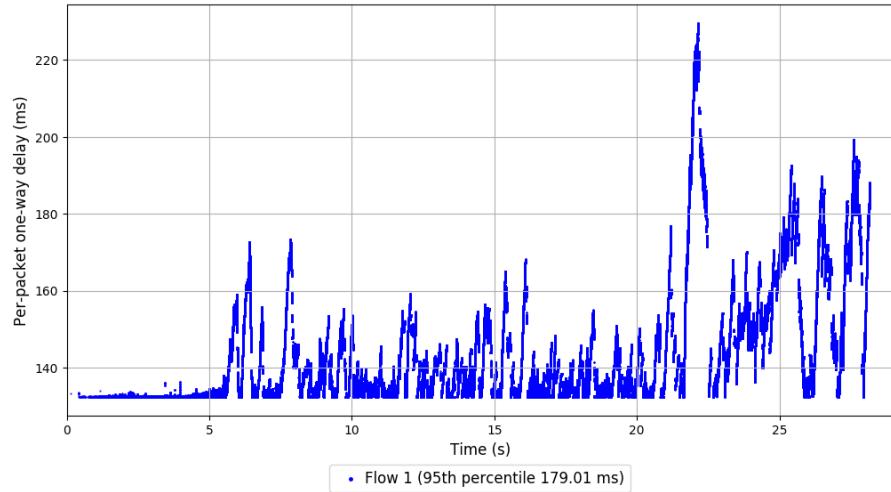
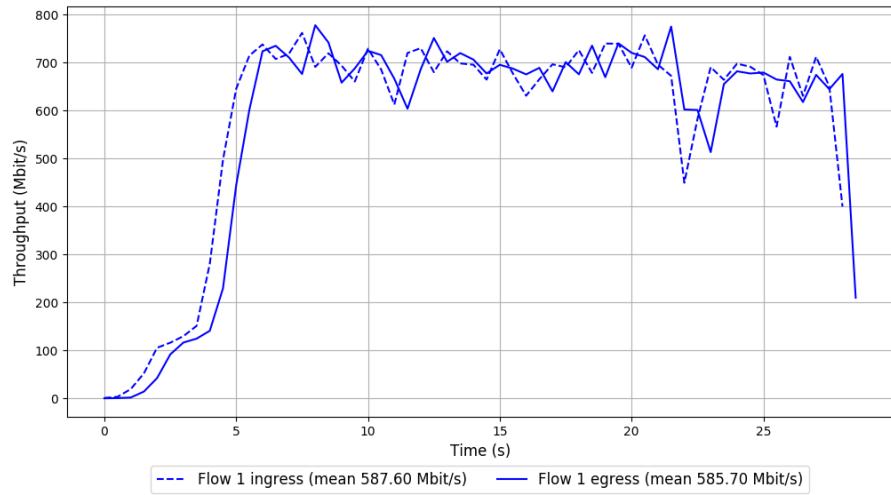


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-11-24 12:11:11
End at: 2019-11-24 12:11:41
Local clock offset: 0.274 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-11-24 13:45:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 585.70 Mbit/s
95th percentile per-packet one-way delay: 179.010 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 585.70 Mbit/s
95th percentile per-packet one-way delay: 179.010 ms
Loss rate: 1.26%
```

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

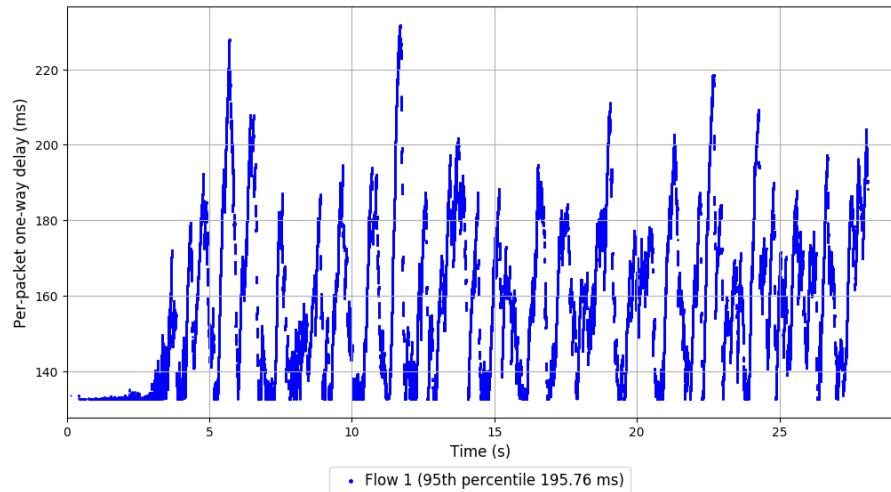
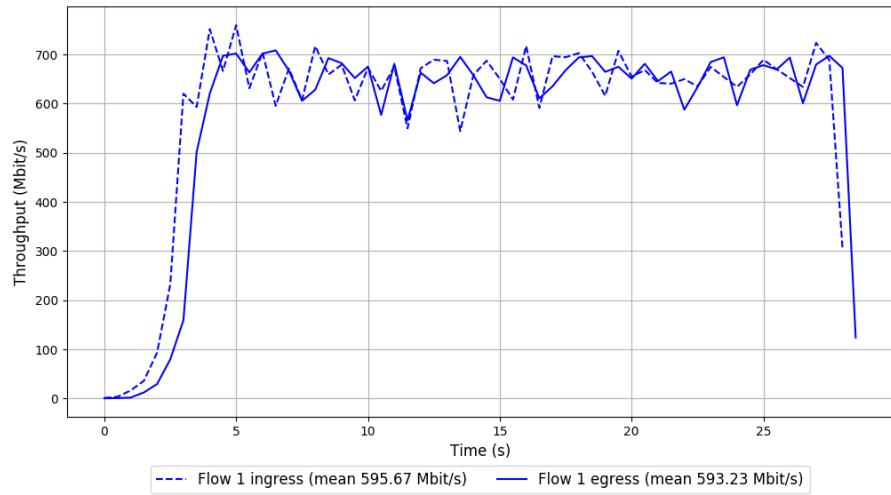


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-11-24 12:46:28
End at: 2019-11-24 12:46:58
Local clock offset: -0.071 ms
Remote clock offset: -0.331 ms

# Below is generated by plot.py at 2019-11-24 13:47:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.23 Mbit/s
95th percentile per-packet one-way delay: 195.756 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 593.23 Mbit/s
95th percentile per-packet one-way delay: 195.756 ms
Loss rate: 1.35%
```

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

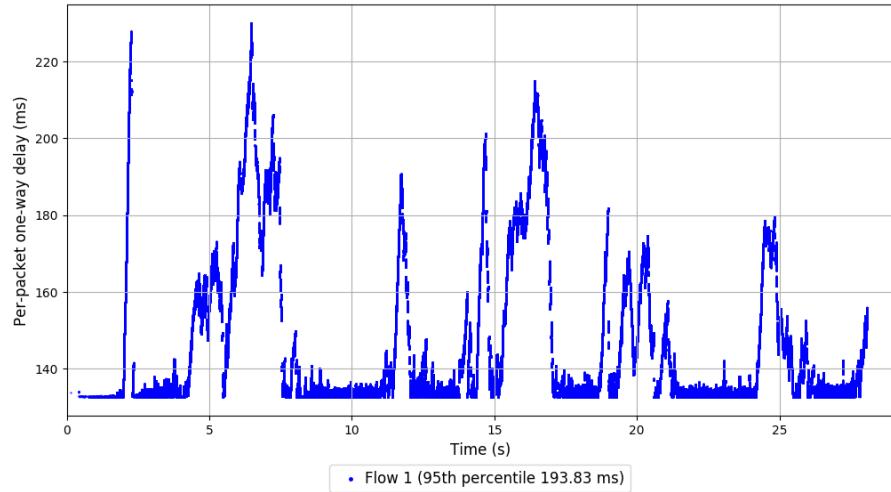
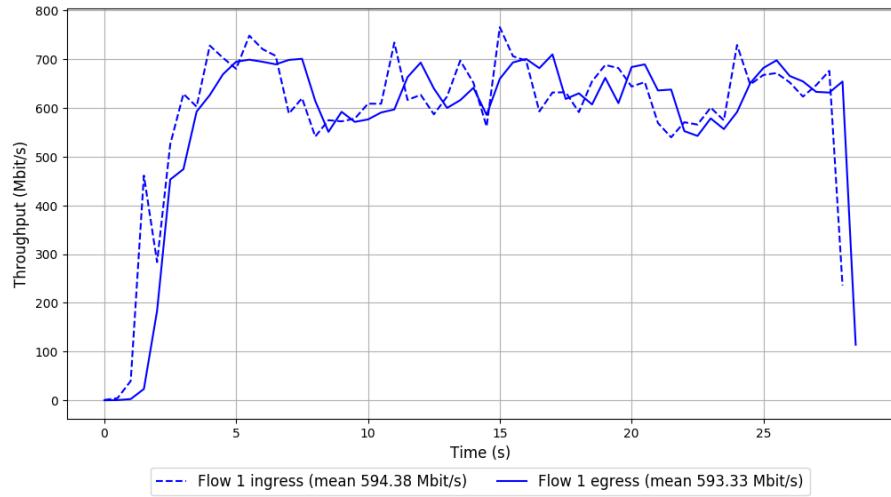


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-11-24 10:28:59
End at: 2019-11-24 10:29:29
Local clock offset: 0.03 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-11-24 13:47:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.33 Mbit/s
95th percentile per-packet one-way delay: 193.831 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 593.33 Mbit/s
95th percentile per-packet one-way delay: 193.831 ms
Loss rate: 1.12%
```

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

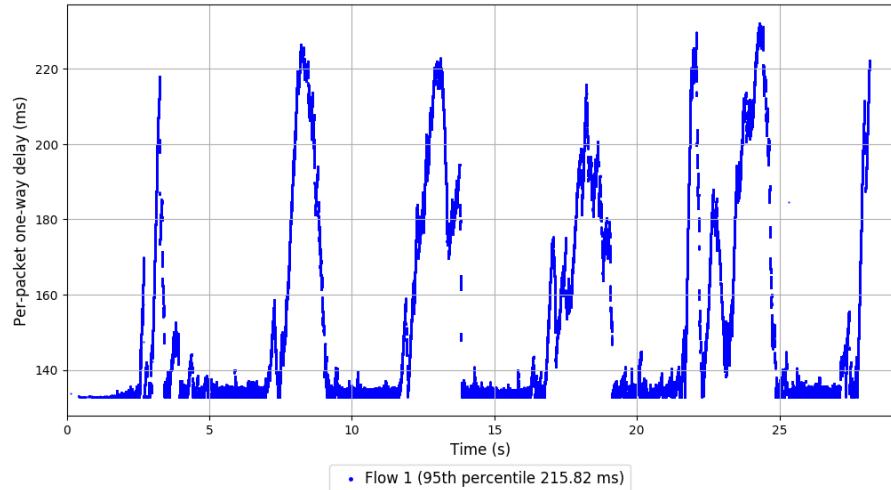
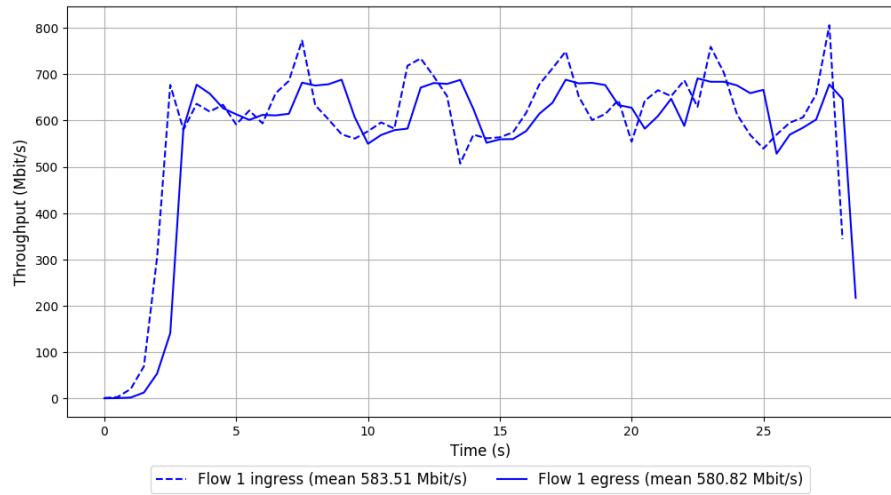


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-11-24 11:03:19
End at: 2019-11-24 11:03:49
Local clock offset: 0.025 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-11-24 13:48:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 580.82 Mbit/s
95th percentile per-packet one-way delay: 215.820 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 580.82 Mbit/s
95th percentile per-packet one-way delay: 215.820 ms
Loss rate: 1.40%
```

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

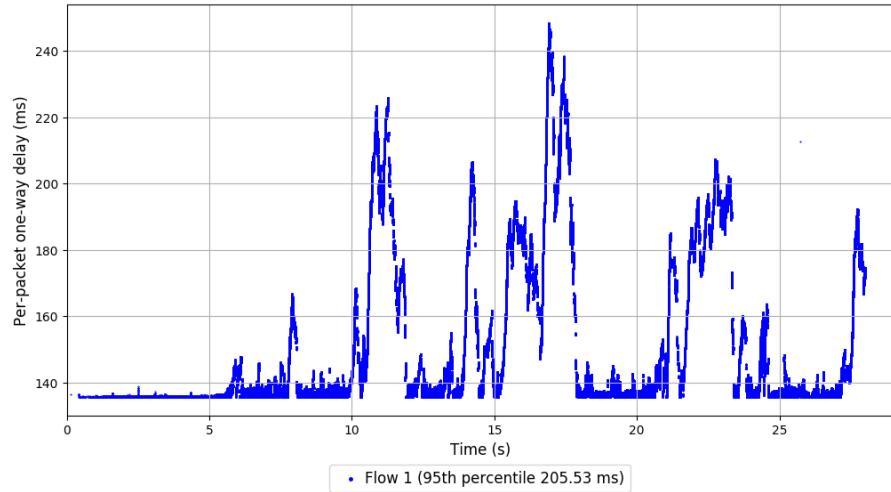
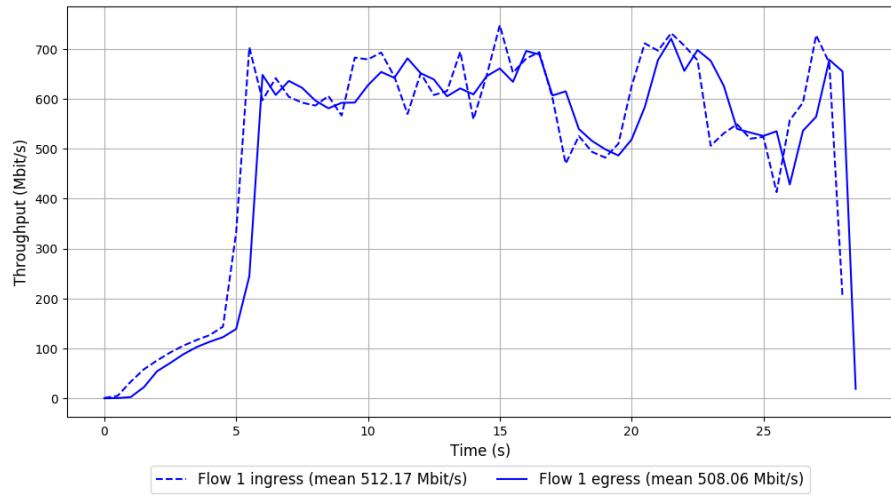


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-11-24 11:38:36
End at: 2019-11-24 11:39:06
Local clock offset: -0.048 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-11-24 13:48:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 508.06 Mbit/s
95th percentile per-packet one-way delay: 205.528 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 508.06 Mbit/s
95th percentile per-packet one-way delay: 205.528 ms
Loss rate: 1.76%
```

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

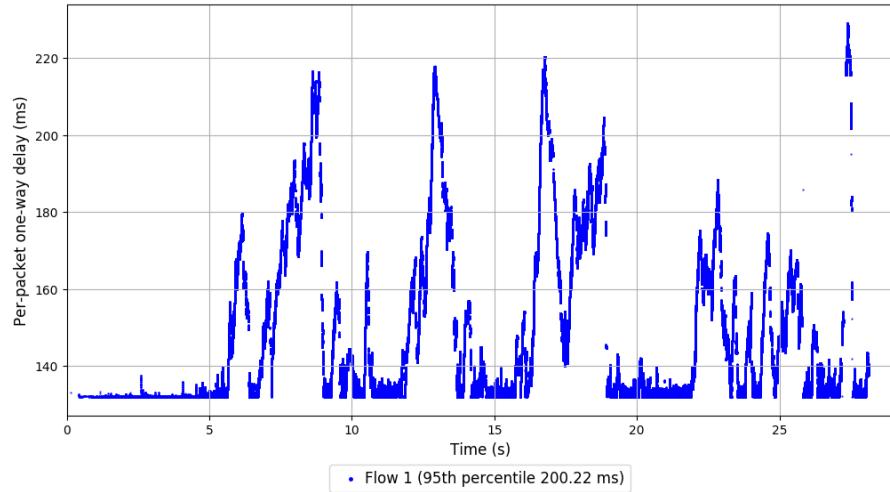
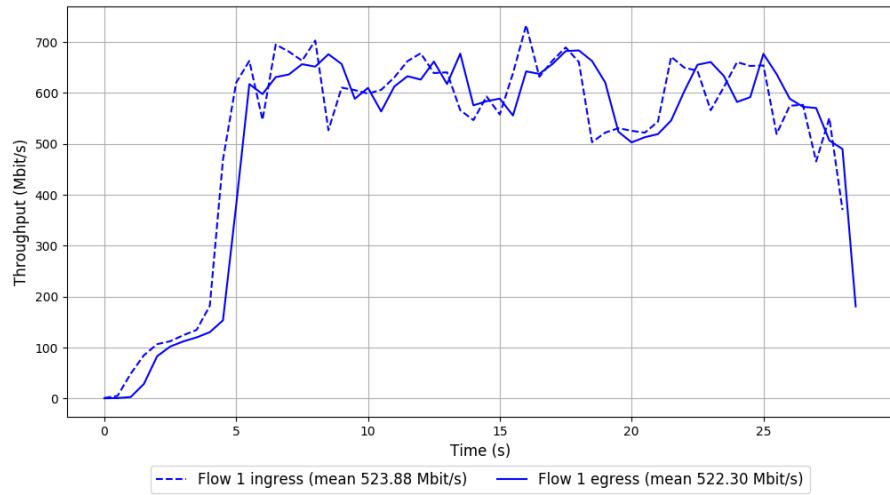


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-11-24 12:14:33
End at: 2019-11-24 12:15:03
Local clock offset: -0.104 ms
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2019-11-24 13:48:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 522.30 Mbit/s
95th percentile per-packet one-way delay: 200.220 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 522.30 Mbit/s
95th percentile per-packet one-way delay: 200.220 ms
Loss rate: 1.23%
```

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

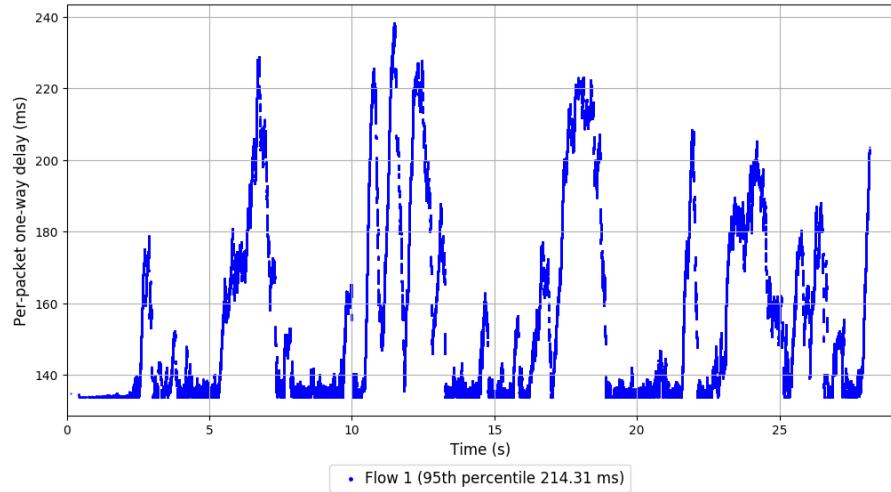
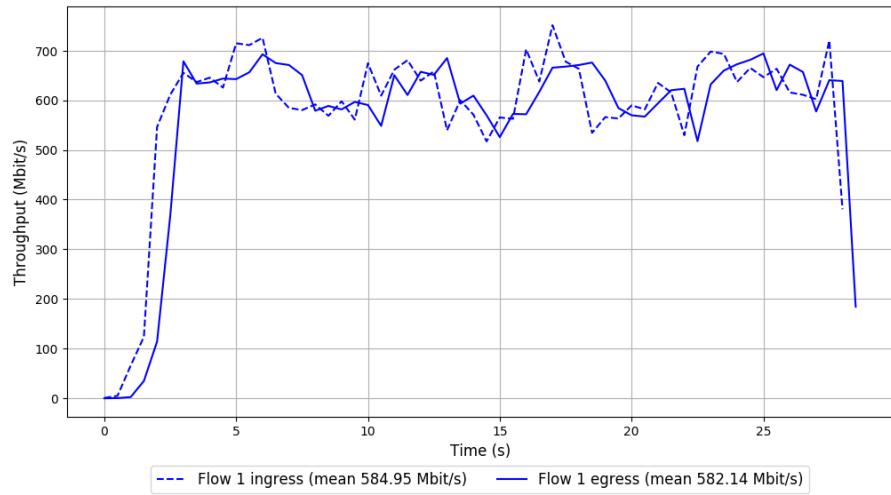


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-11-24 12:49:51
End at: 2019-11-24 12:50:21
Local clock offset: -0.049 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-11-24 13:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 582.14 Mbit/s
95th percentile per-packet one-way delay: 214.310 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 582.14 Mbit/s
95th percentile per-packet one-way delay: 214.310 ms
Loss rate: 1.42%
```

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

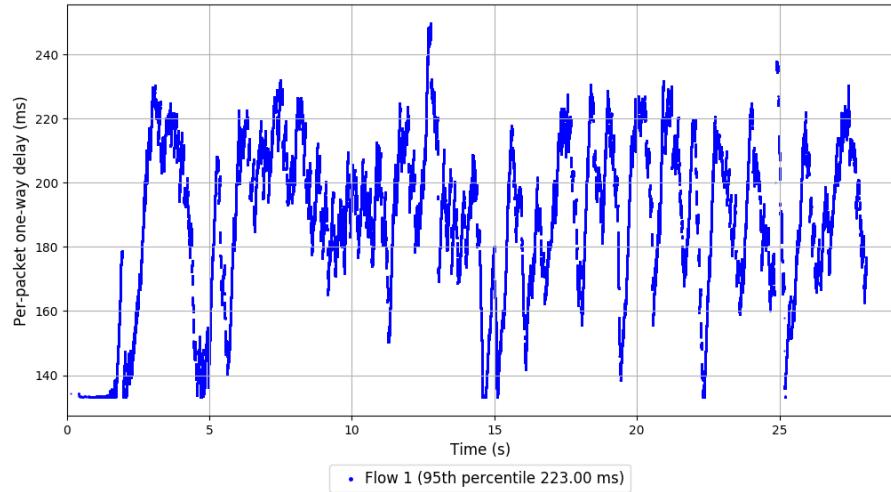
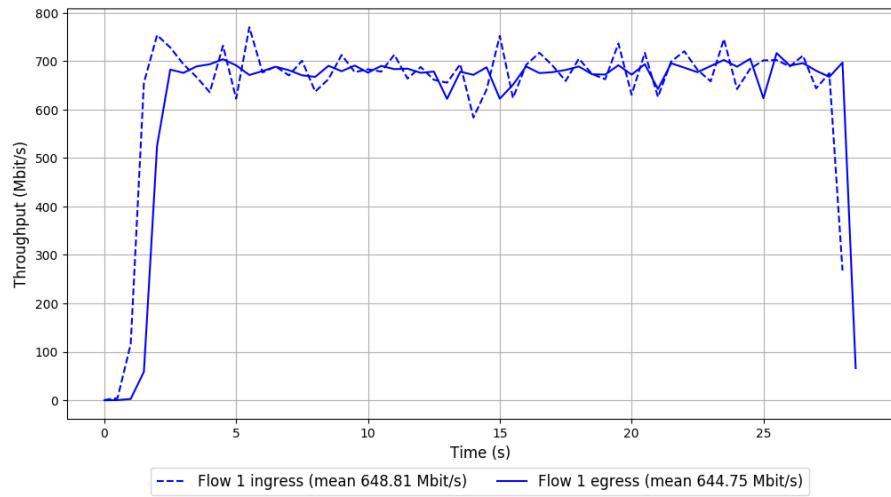


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-11-24 10:09:00
End at: 2019-11-24 10:09:30
Local clock offset: -0.068 ms
Remote clock offset: -0.45 ms

# Below is generated by plot.py at 2019-11-24 13:54:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 644.75 Mbit/s
95th percentile per-packet one-way delay: 222.999 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 644.75 Mbit/s
95th percentile per-packet one-way delay: 222.999 ms
Loss rate: 1.57%
```

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

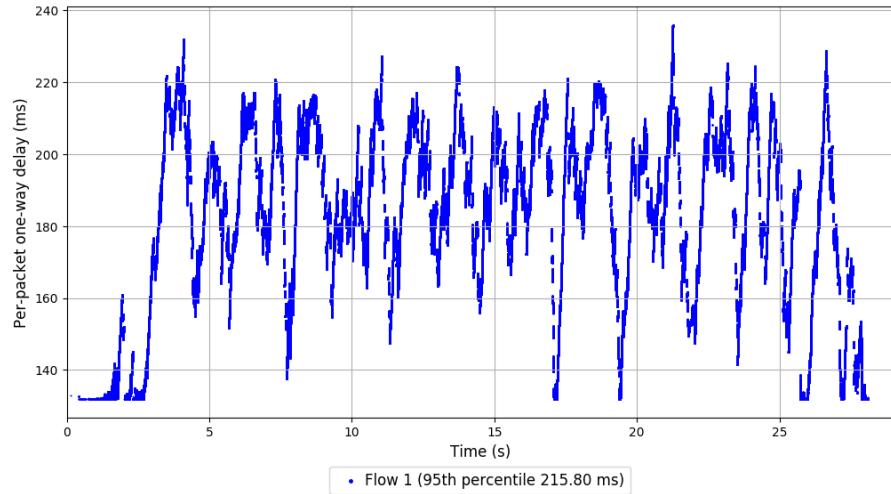
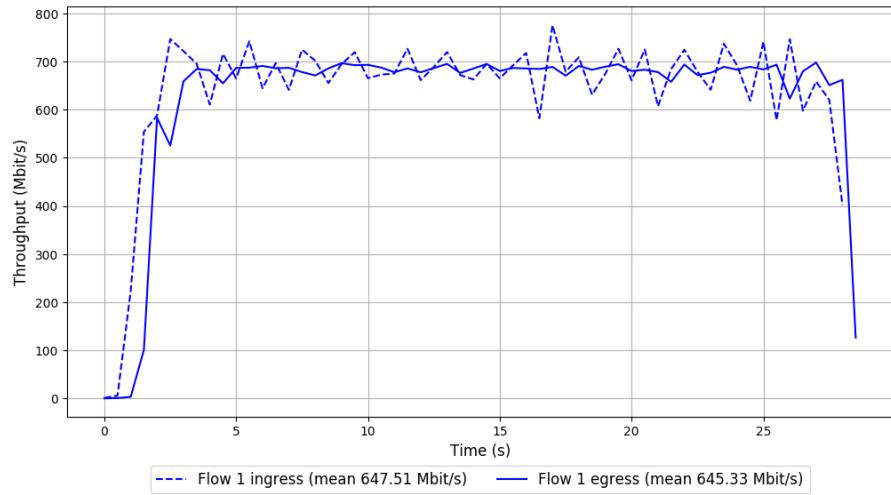


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-11-24 10:44:22
End at: 2019-11-24 10:44:52
Local clock offset: 0.022 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-11-24 13:58:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 645.33 Mbit/s
95th percentile per-packet one-way delay: 215.801 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 645.33 Mbit/s
95th percentile per-packet one-way delay: 215.801 ms
Loss rate: 1.27%
```

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

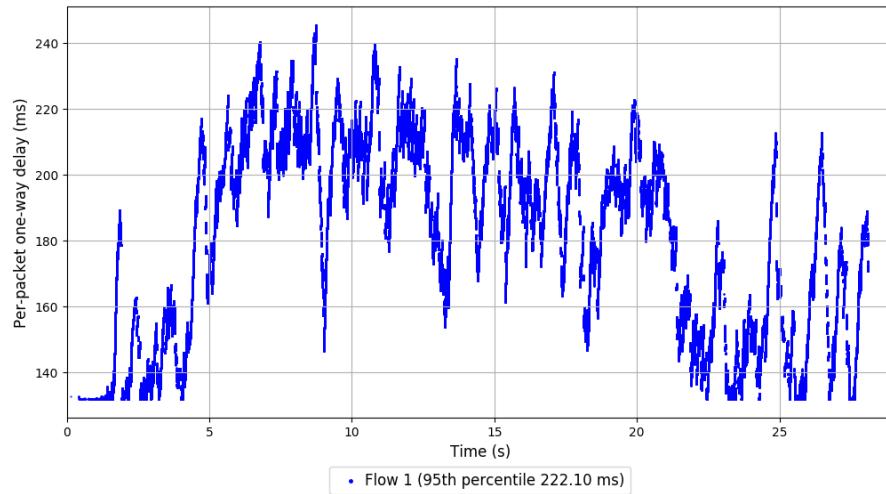
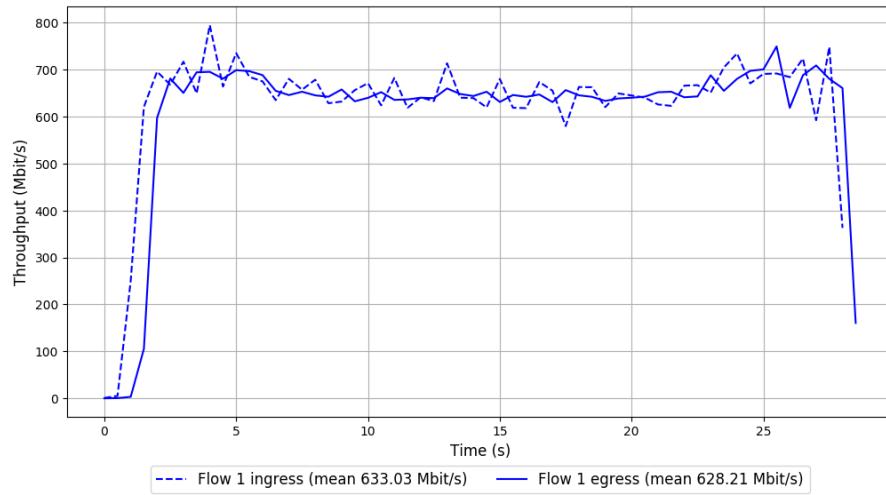


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-11-24 11:19:14
End at: 2019-11-24 11:19:44
Local clock offset: -0.035 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-11-24 13:58:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 628.21 Mbit/s
95th percentile per-packet one-way delay: 222.101 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 628.21 Mbit/s
95th percentile per-packet one-way delay: 222.101 ms
Loss rate: 1.70%
```

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

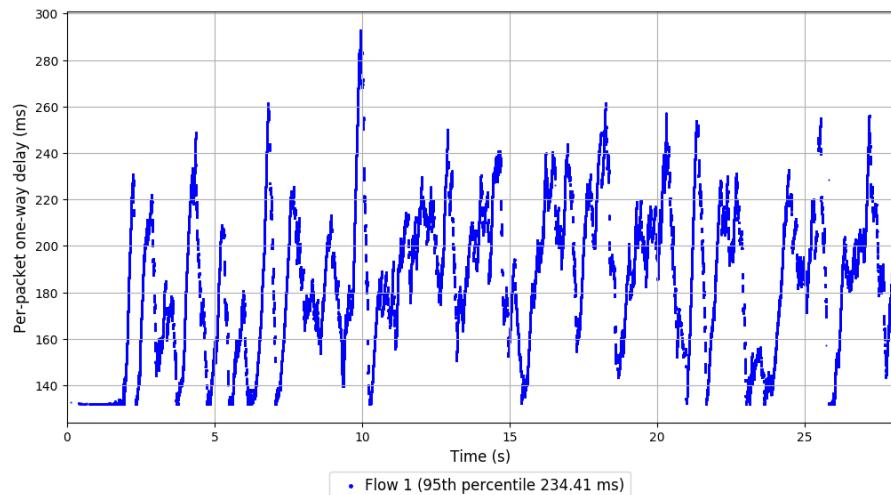
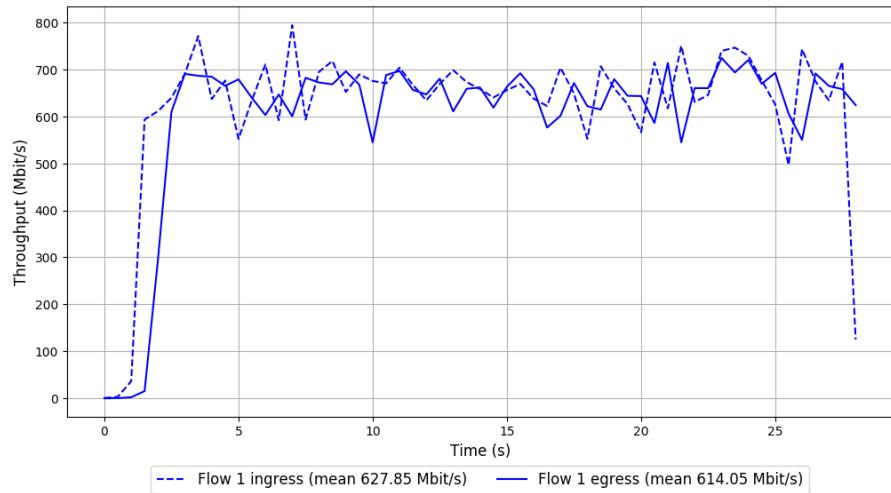


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-11-24 11:54:16
End at: 2019-11-24 11:54:46
Local clock offset: -0.033 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-11-24 13:59:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 614.05 Mbit/s
95th percentile per-packet one-way delay: 234.406 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 614.05 Mbit/s
95th percentile per-packet one-way delay: 234.406 ms
Loss rate: 3.12%
```

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

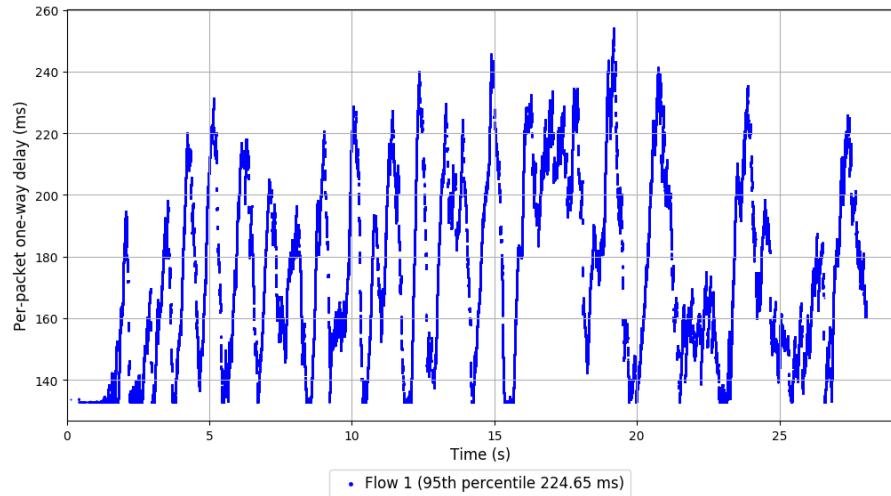
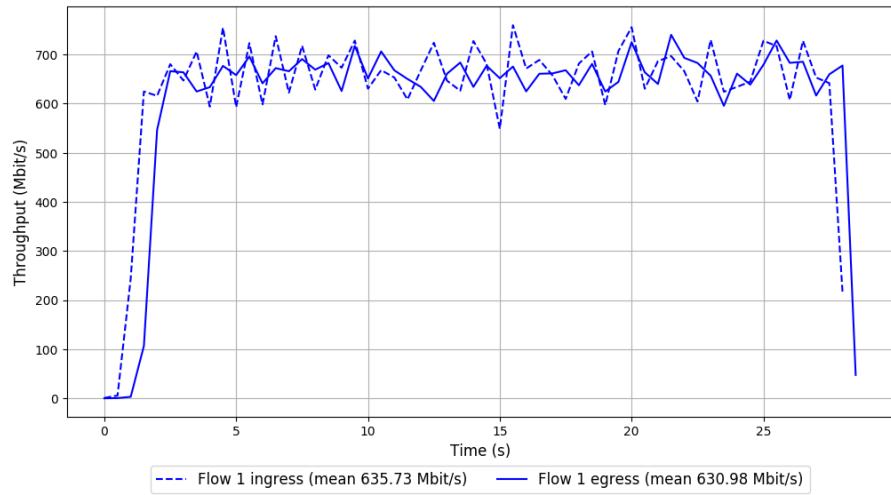


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-11-24 12:30:05
End at: 2019-11-24 12:30:35
Local clock offset: -0.071 ms
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2019-11-24 14:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 630.98 Mbit/s
95th percentile per-packet one-way delay: 224.645 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 630.98 Mbit/s
95th percentile per-packet one-way delay: 224.645 ms
Loss rate: 1.69%
```

Run 5: Report of Indigo-MusesT — Data Link

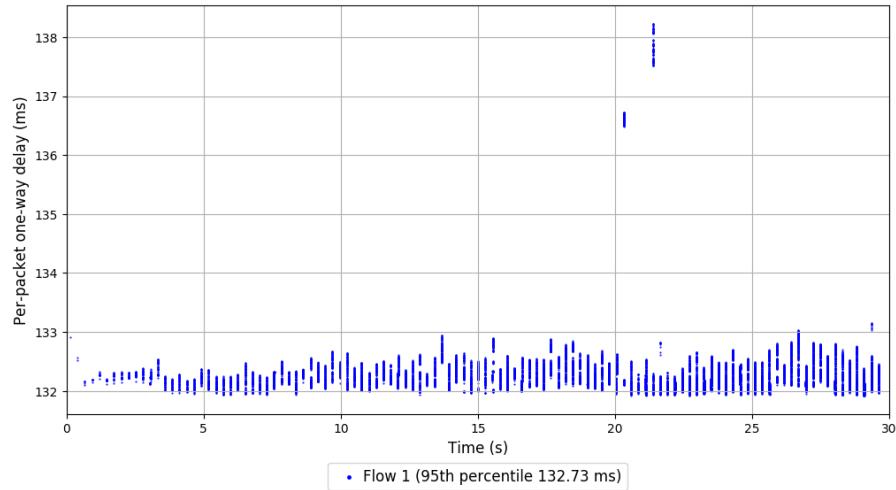
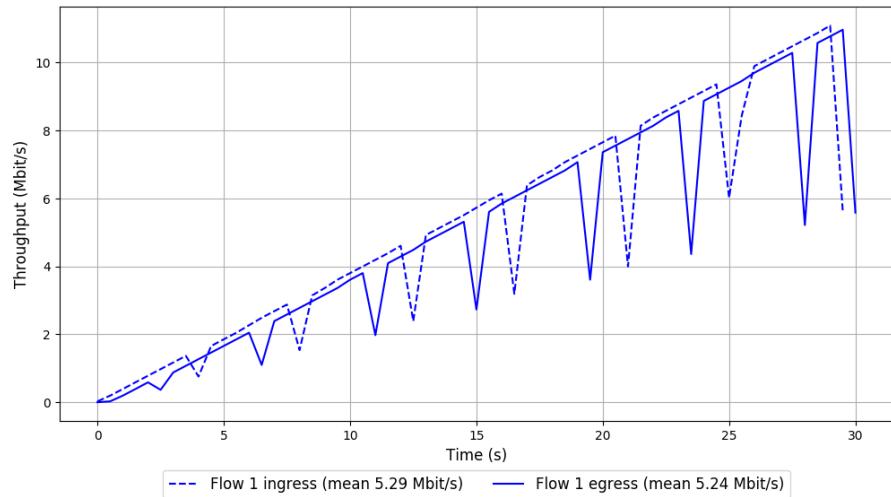


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-11-24 10:31:54
End at: 2019-11-24 10:32:24
Local clock offset: 0.027 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-11-24 14:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 132.729 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 132.729 ms
Loss rate: 1.79%
```

Run 1: Report of LEDBAT — Data Link

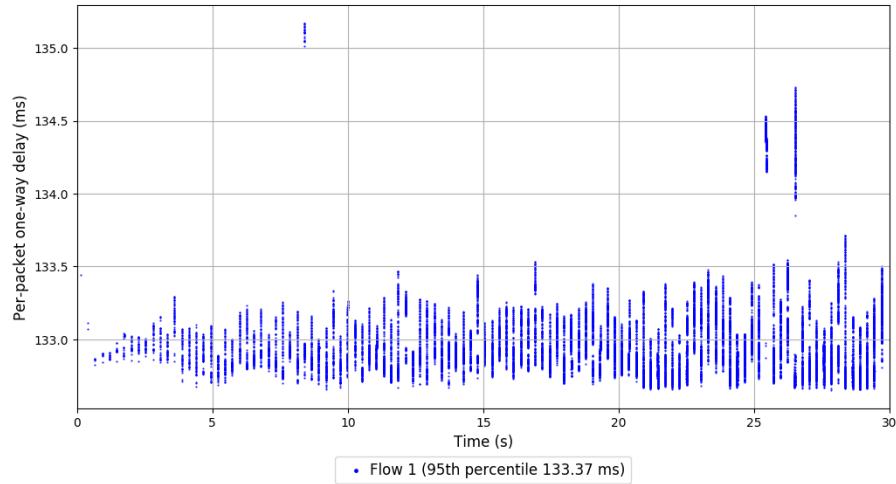
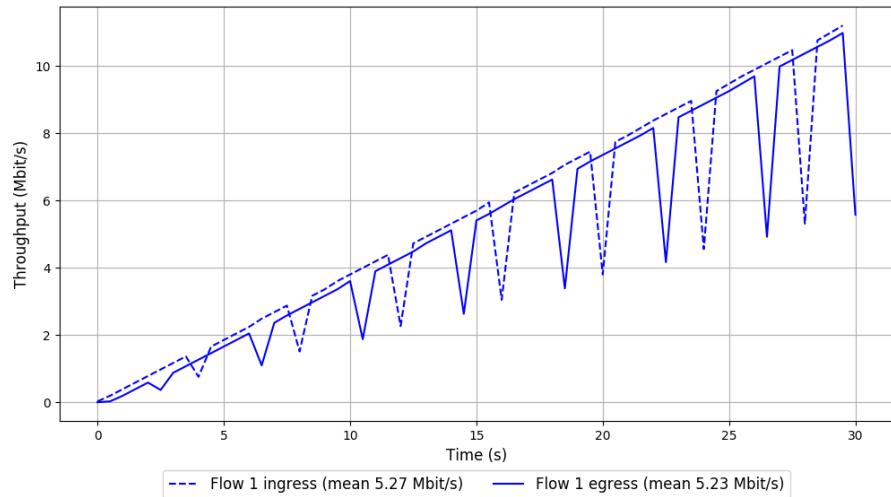


Run 2: Statistics of LEDBAT

```
Start at: 2019-11-24 11:06:19
End at: 2019-11-24 11:06:49
Local clock offset: 0.034 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-11-24 14:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.368 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.368 ms
Loss rate: 1.79%
```

## Run 2: Report of LEDBAT — Data Link

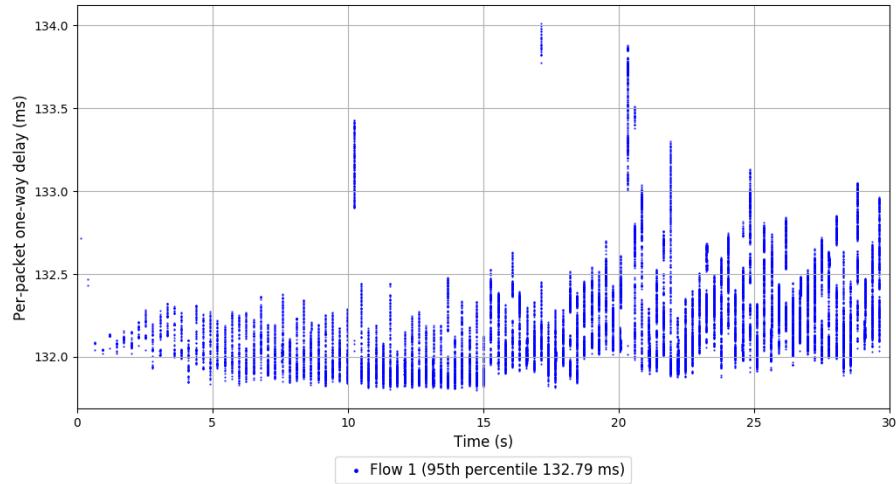
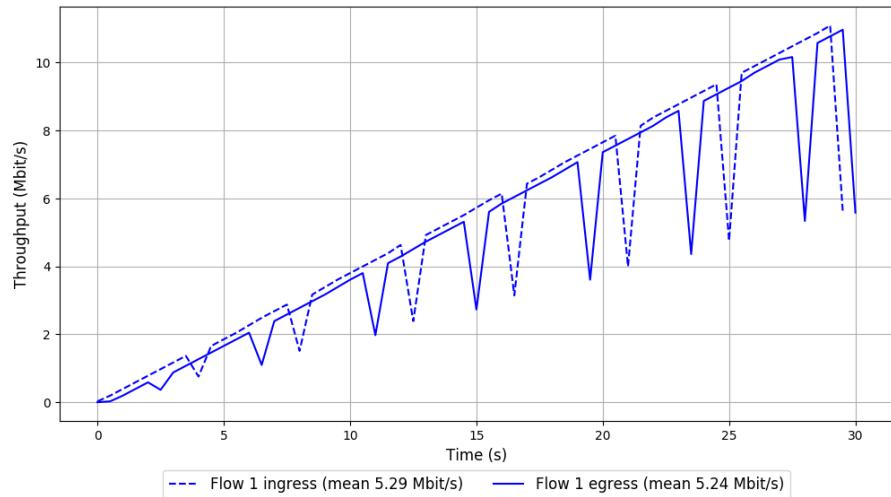


Run 3: Statistics of LEDBAT

```
Start at: 2019-11-24 11:41:32
End at: 2019-11-24 11:42:02
Local clock offset: -0.067 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-11-24 14:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 132.786 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 132.786 ms
Loss rate: 1.79%
```

Run 3: Report of LEDBAT — Data Link

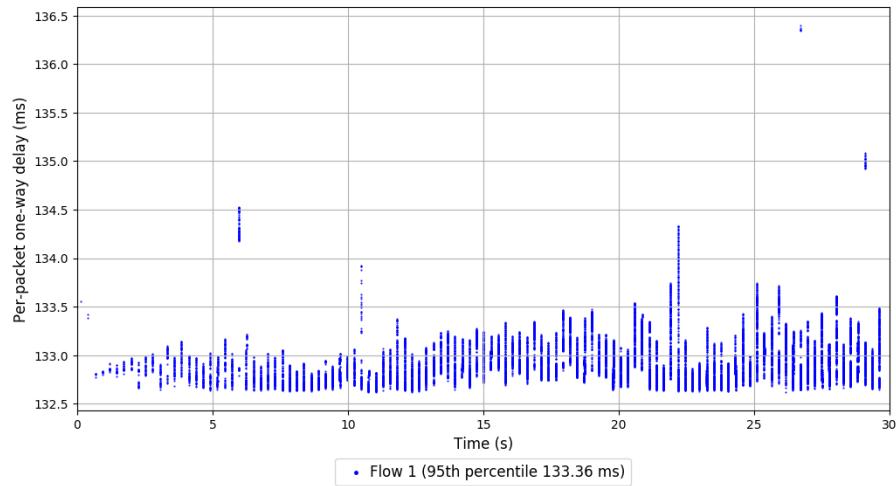
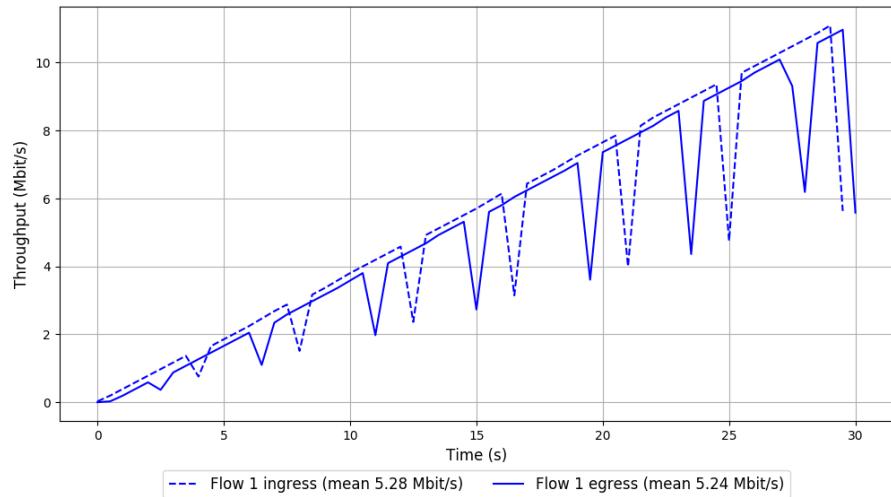


Run 4: Statistics of LEDBAT

```
Start at: 2019-11-24 12:17:38
End at: 2019-11-24 12:18:08
Local clock offset: -0.149 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-11-24 14:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 133.363 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 133.363 ms
Loss rate: 1.79%
```

## Run 4: Report of LEDBAT — Data Link

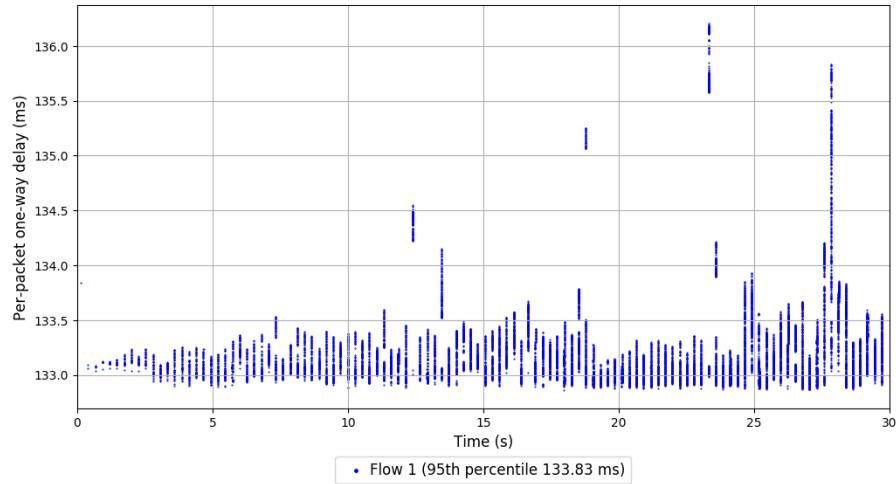
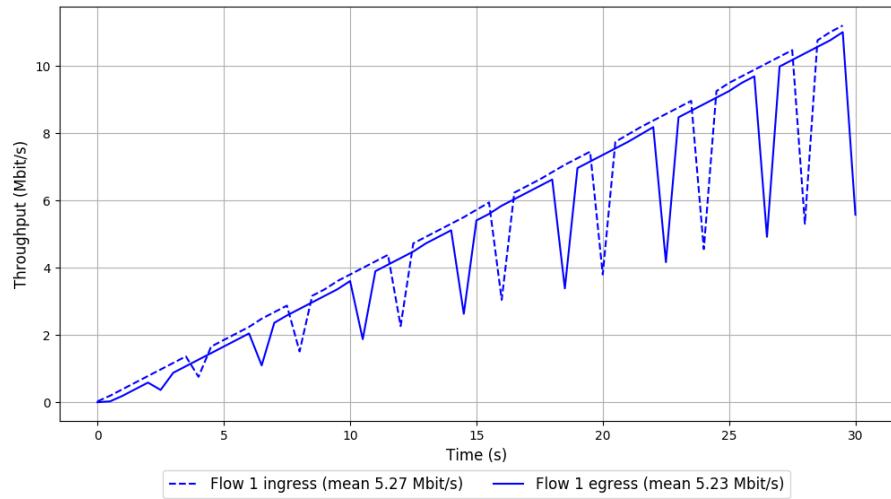


Run 5: Statistics of LEDBAT

```
Start at: 2019-11-24 12:52:47
End at: 2019-11-24 12:53:17
Local clock offset: 0.017 ms
Remote clock offset: -0.343 ms

# Below is generated by plot.py at 2019-11-24 14:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.828 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.828 ms
Loss rate: 1.79%
```

Run 5: Report of LEDBAT — Data Link

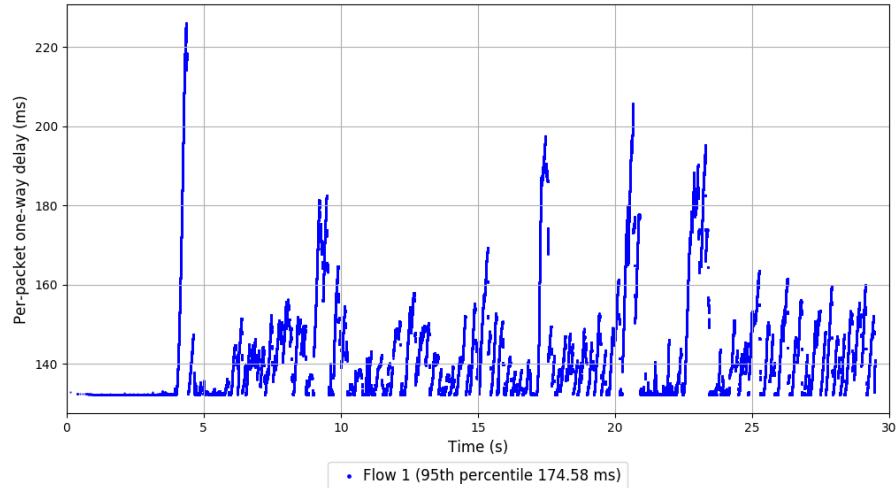
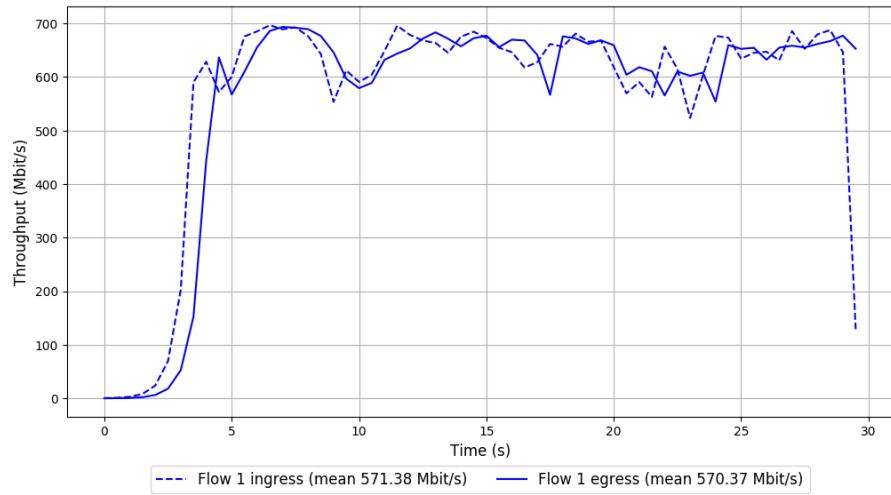


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 10:16:36
End at: 2019-11-24 10:17:06
Local clock offset: -0.062 ms
Remote clock offset: 0.346 ms

# Below is generated by plot.py at 2019-11-24 14:00:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 570.37 Mbit/s
95th percentile per-packet one-way delay: 174.580 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 570.37 Mbit/s
95th percentile per-packet one-way delay: 174.580 ms
Loss rate: 1.08%
```

Run 1: Report of Muses\_DecisionTree — Data Link

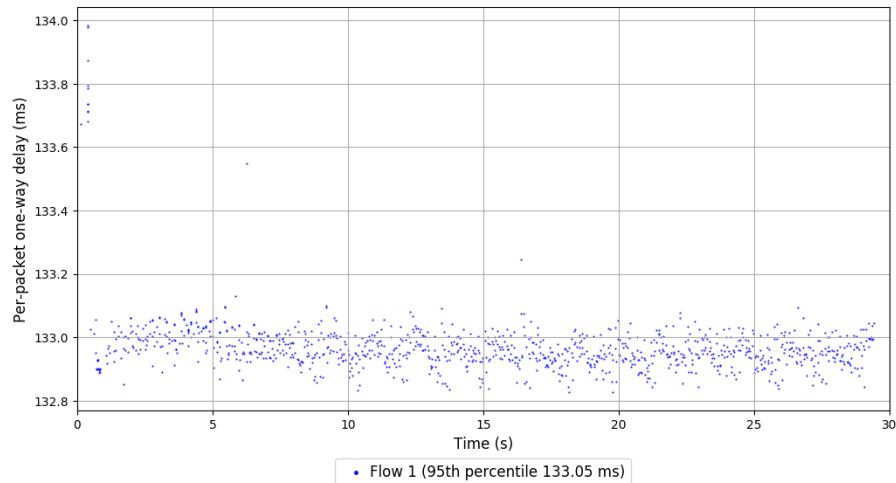
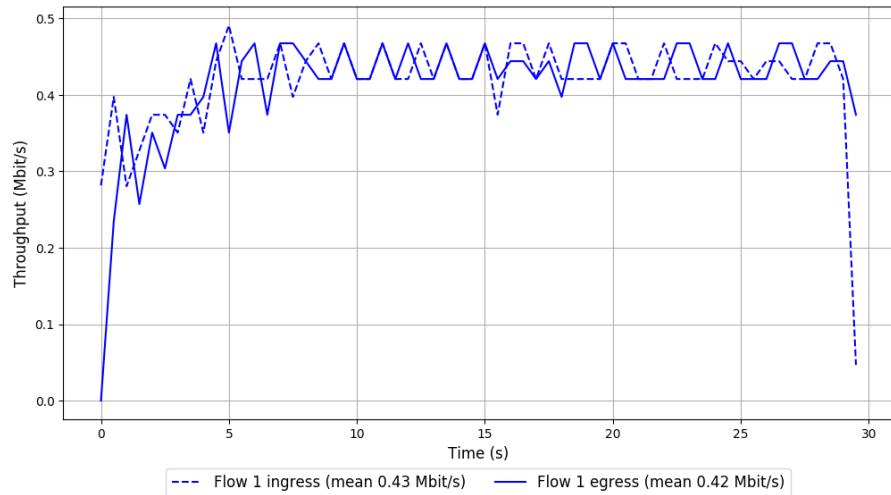


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 10:51:23
End at: 2019-11-24 10:51:53
Local clock offset: 0.057 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-11-24 14:00:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 133.051 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 133.051 ms
Loss rate: 0.93%
```

## Run 2: Report of Muses\_DecisionTree — Data Link

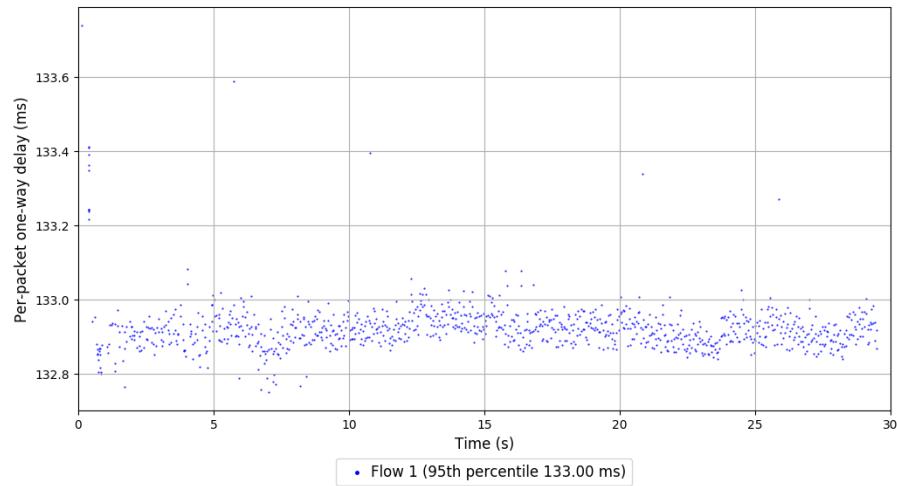
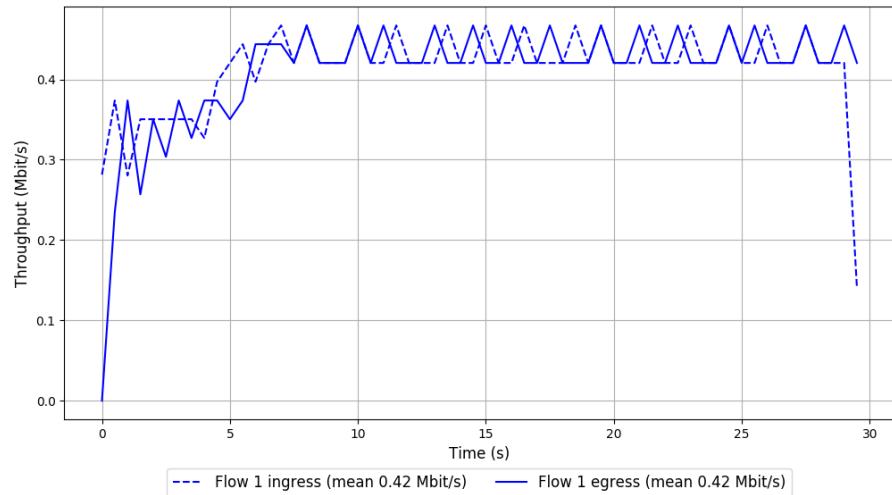


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 11:26:54
End at: 2019-11-24 11:27:24
Local clock offset: -0.009 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-11-24 14:00:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 132.996 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 132.996 ms
Loss rate: 0.94%
```

Run 3: Report of Muses\_DecisionTree — Data Link

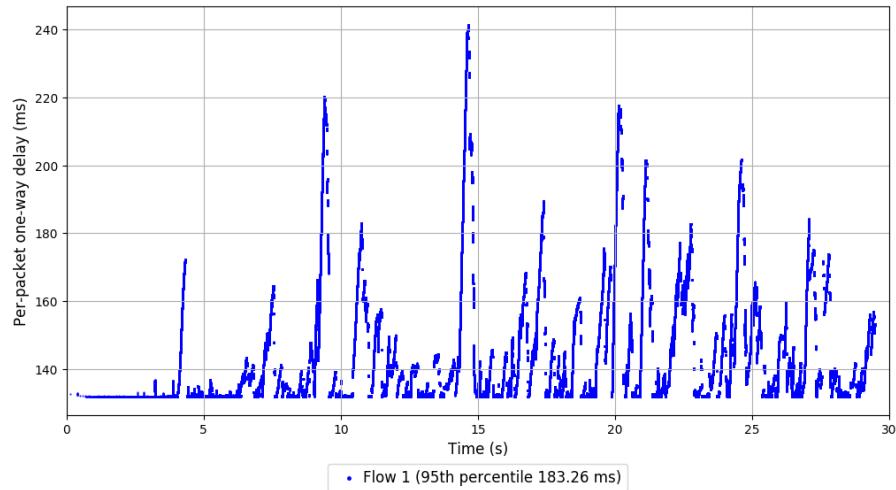
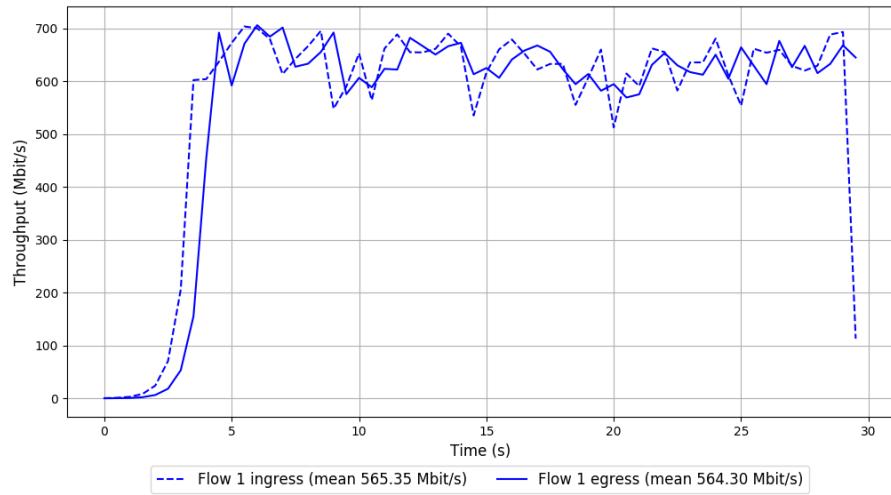


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 12:01:49
End at: 2019-11-24 12:02:19
Local clock offset: 0.246 ms
Remote clock offset: 0.23 ms

# Below is generated by plot.py at 2019-11-24 14:00:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 564.30 Mbit/s
95th percentile per-packet one-way delay: 183.263 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 564.30 Mbit/s
95th percentile per-packet one-way delay: 183.263 ms
Loss rate: 1.08%
```

Run 4: Report of Muses\_DecisionTree — Data Link

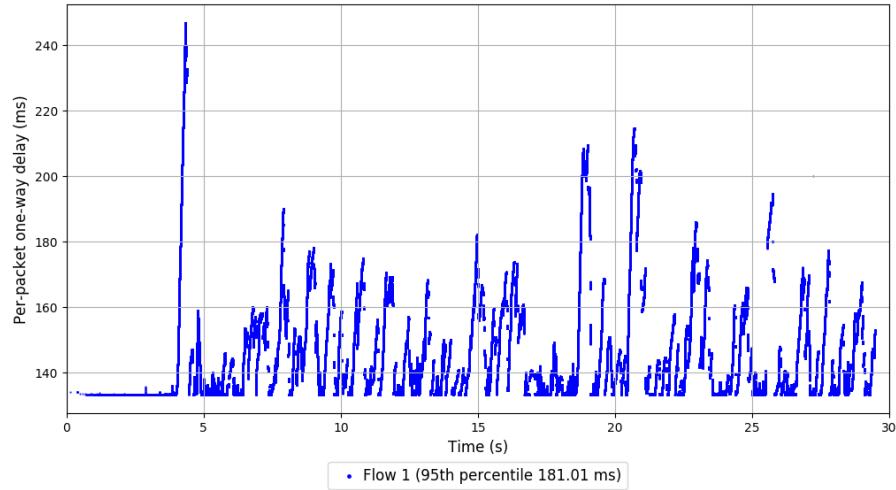
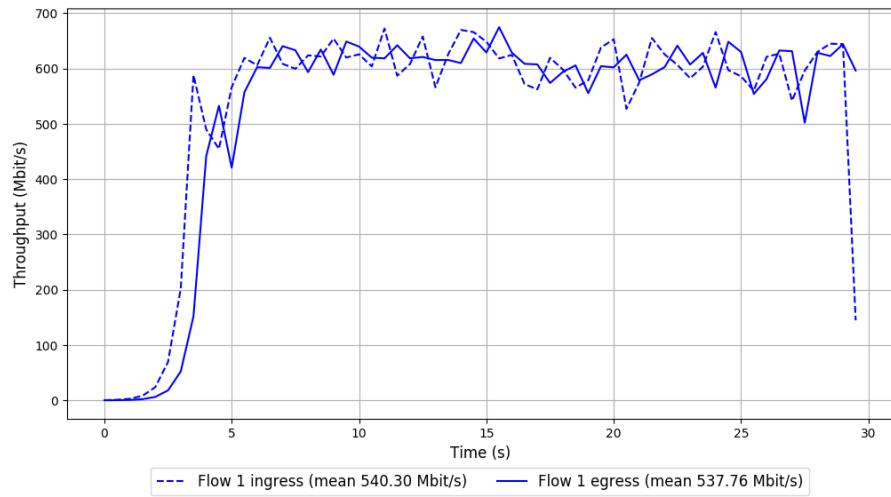


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 12:37:37
End at: 2019-11-24 12:38:07
Local clock offset: -0.069 ms
Remote clock offset: -0.623 ms

# Below is generated by plot.py at 2019-11-24 14:01:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 537.76 Mbit/s
95th percentile per-packet one-way delay: 181.015 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 537.76 Mbit/s
95th percentile per-packet one-way delay: 181.015 ms
Loss rate: 1.36%
```

Run 5: Report of Muses\_DecisionTree — Data Link

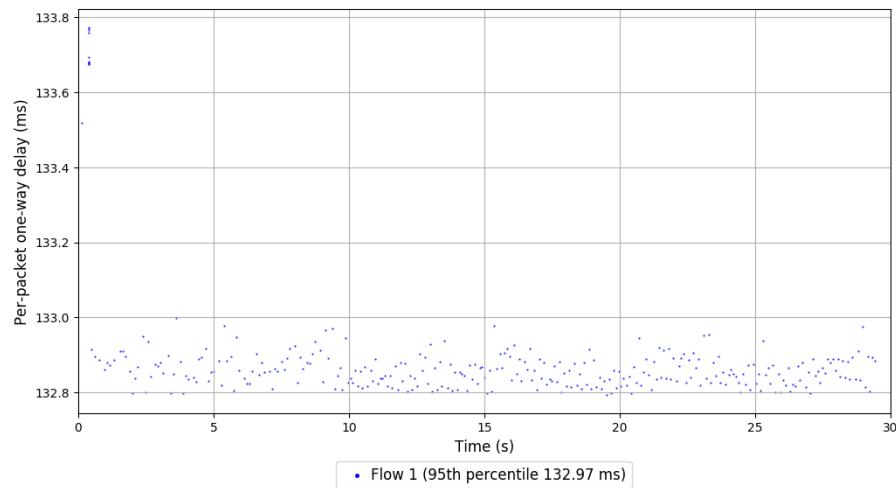
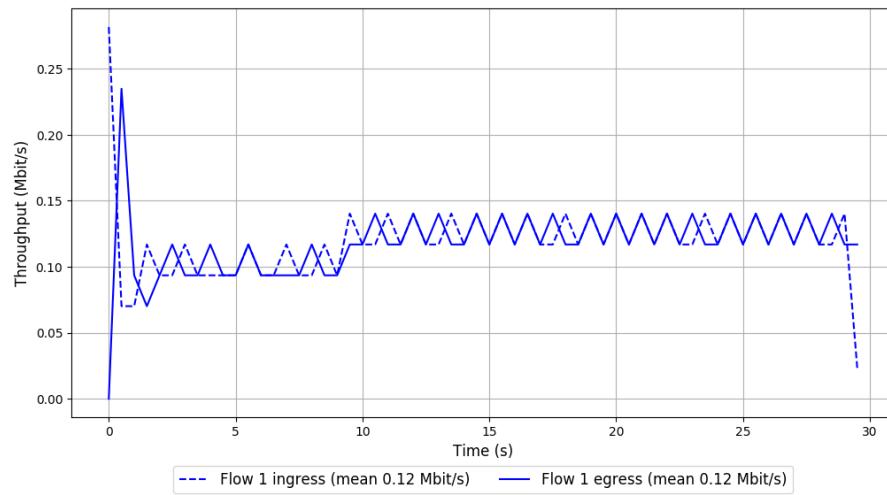


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 10:03:32
End at: 2019-11-24 10:04:02
Local clock offset: -0.09 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-11-24 14:01:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 132.970 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 132.970 ms
Loss rate: 0.98%
```

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

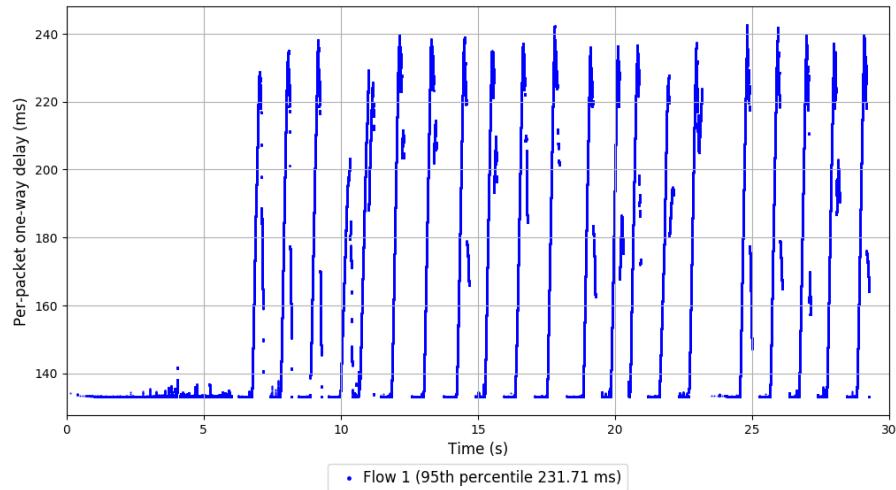
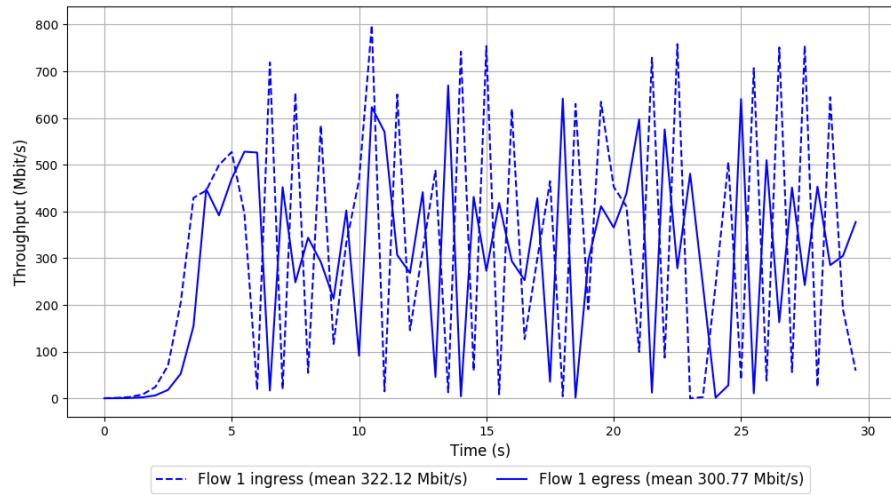


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 10:38:36
End at: 2019-11-24 10:39:06
Local clock offset: 0.364 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-11-24 14:01:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.77 Mbit/s
95th percentile per-packet one-way delay: 231.706 ms
Loss rate: 8.17%
-- Flow 1:
Average throughput: 300.77 Mbit/s
95th percentile per-packet one-way delay: 231.706 ms
Loss rate: 8.17%
```

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

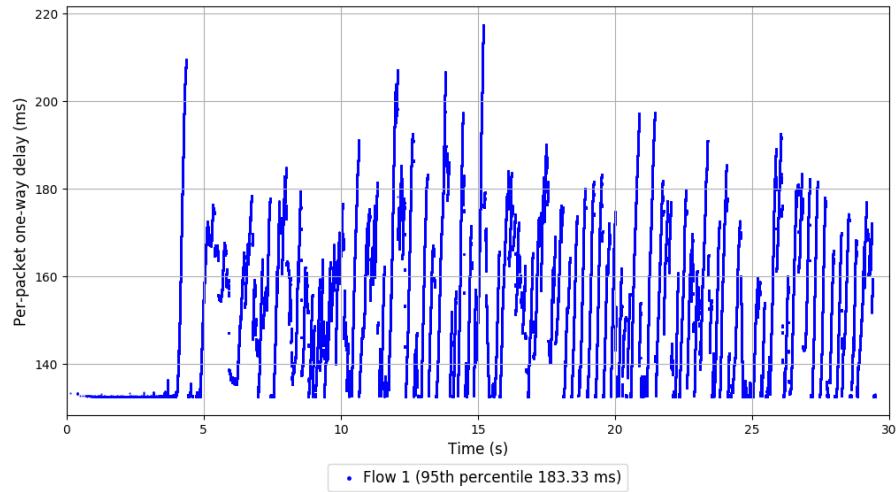
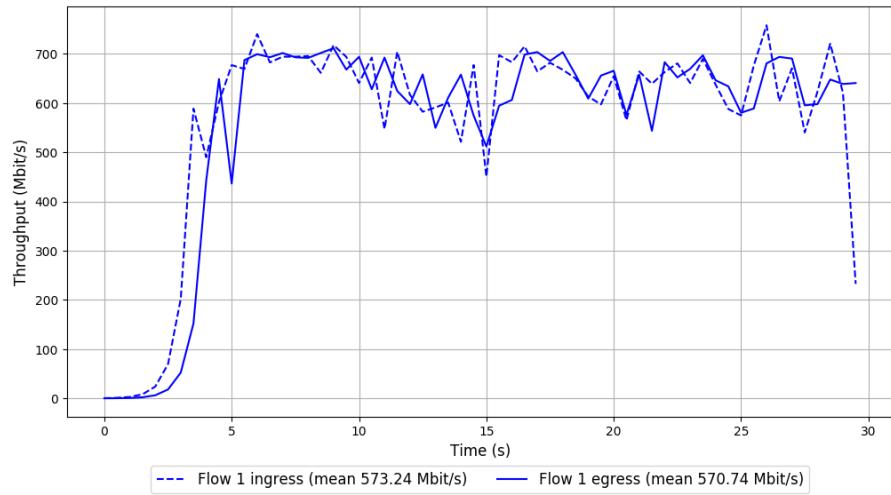


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 11:13:14
End at: 2019-11-24 11:13:44
Local clock offset: 0.02 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-11-24 14:08:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 570.74 Mbit/s
95th percentile per-packet one-way delay: 183.327 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 570.74 Mbit/s
95th percentile per-packet one-way delay: 183.327 ms
Loss rate: 1.33%
```

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

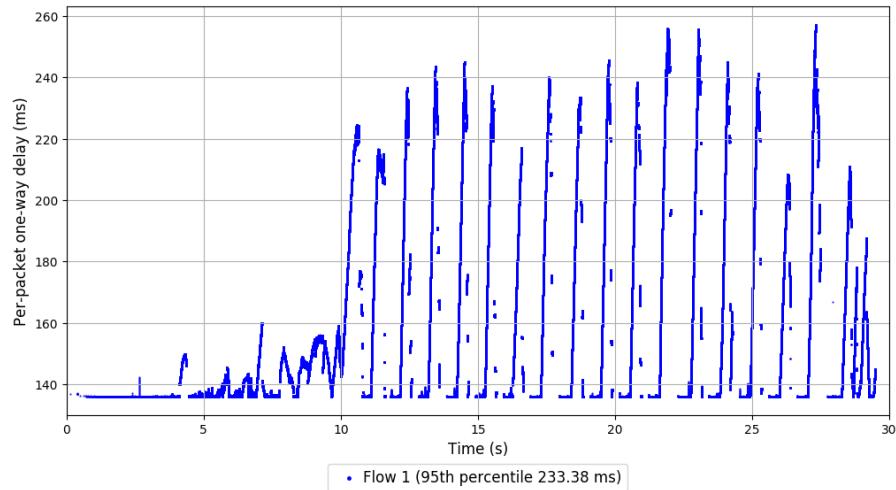
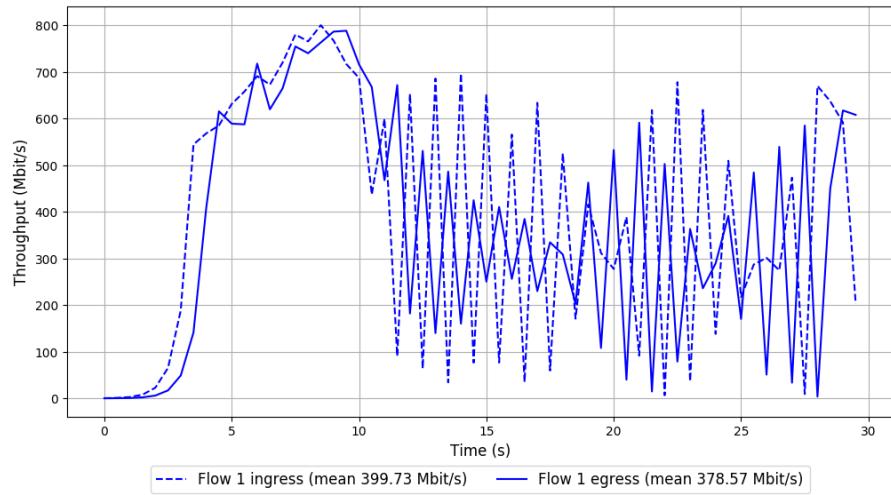


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 11:48:27
End at: 2019-11-24 11:48:57
Local clock offset: 0.28 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-11-24 14:08:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 378.57 Mbit/s
95th percentile per-packet one-way delay: 233.375 ms
Loss rate: 6.16%
-- Flow 1:
Average throughput: 378.57 Mbit/s
95th percentile per-packet one-way delay: 233.375 ms
Loss rate: 6.16%
```

Run 4: Report of Muses\_DecisionTreeH0 — Data Link

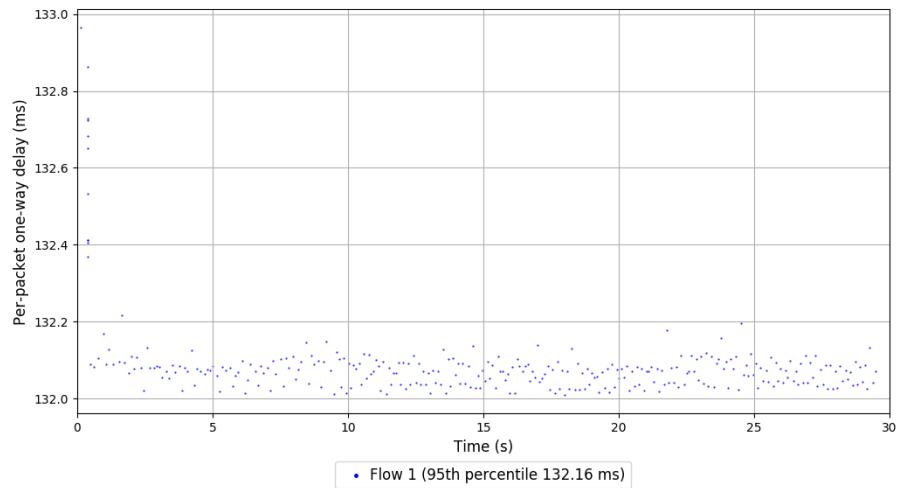
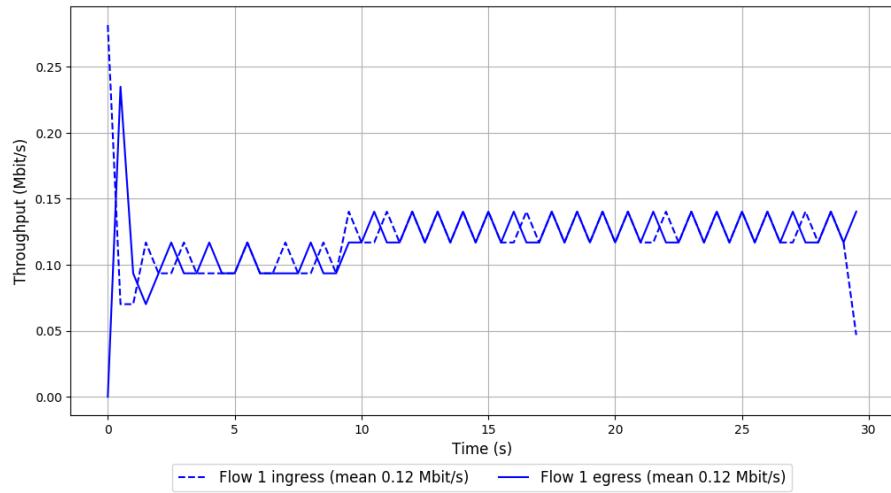


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 12:24:38
End at: 2019-11-24 12:25:08
Local clock offset: -0.154 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-11-24 14:08:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 132.157 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 132.157 ms
Loss rate: 0.98%
```

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

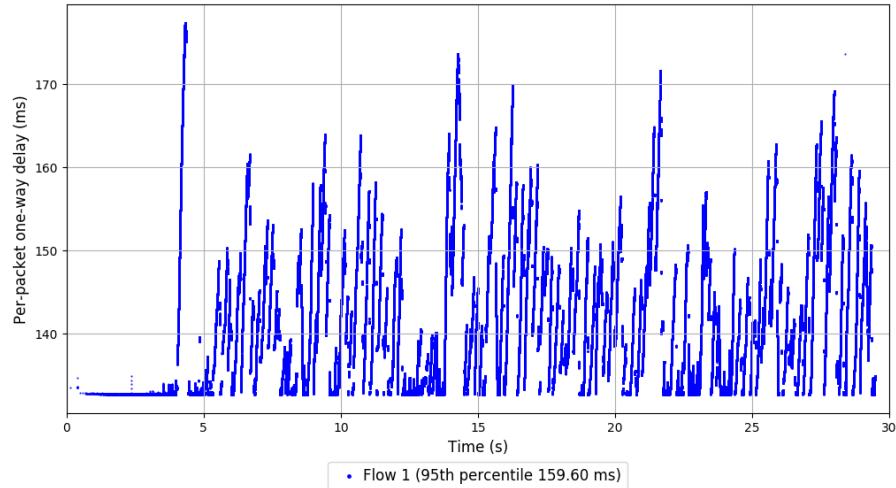
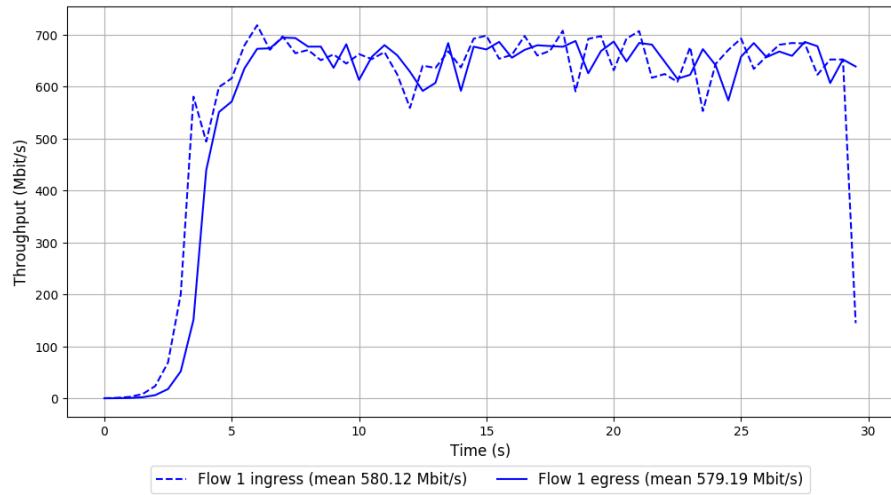


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 10:14:53
End at: 2019-11-24 10:15:23
Local clock offset: -0.038 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-11-24 14:10:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.19 Mbit/s
95th percentile per-packet one-way delay: 159.603 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 579.19 Mbit/s
95th percentile per-packet one-way delay: 159.603 ms
Loss rate: 1.06%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

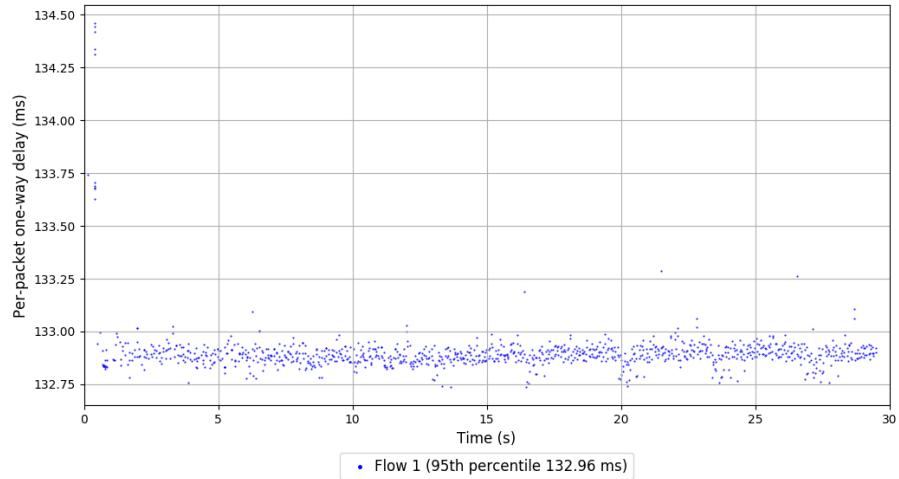
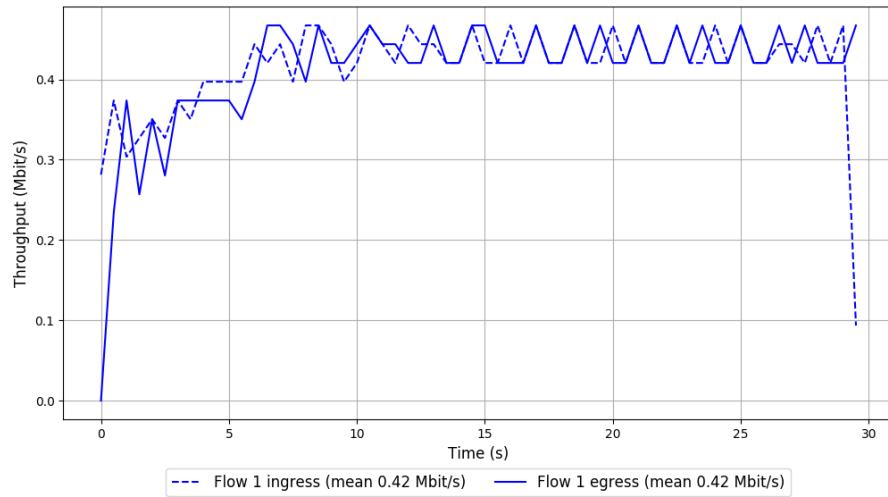


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 10:50:12
End at: 2019-11-24 10:50:42
Local clock offset: -0.076 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-11-24 14:10:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 132.964 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 132.964 ms
Loss rate: 0.94%
```

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

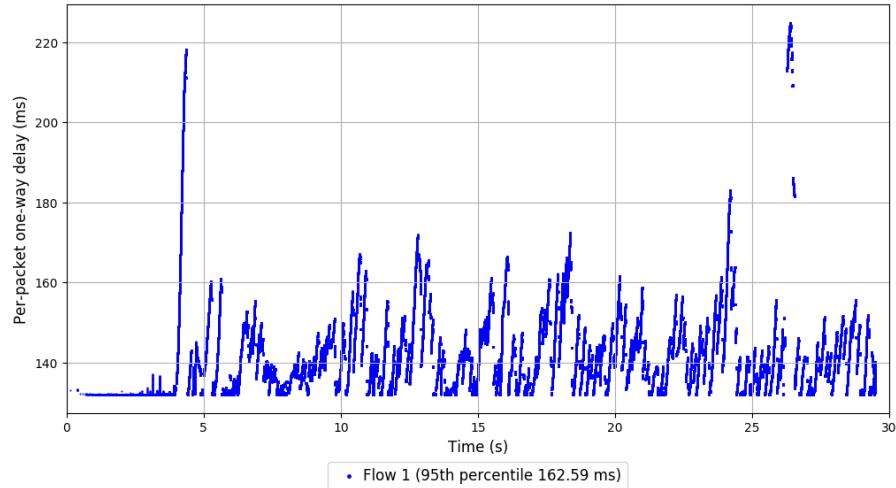
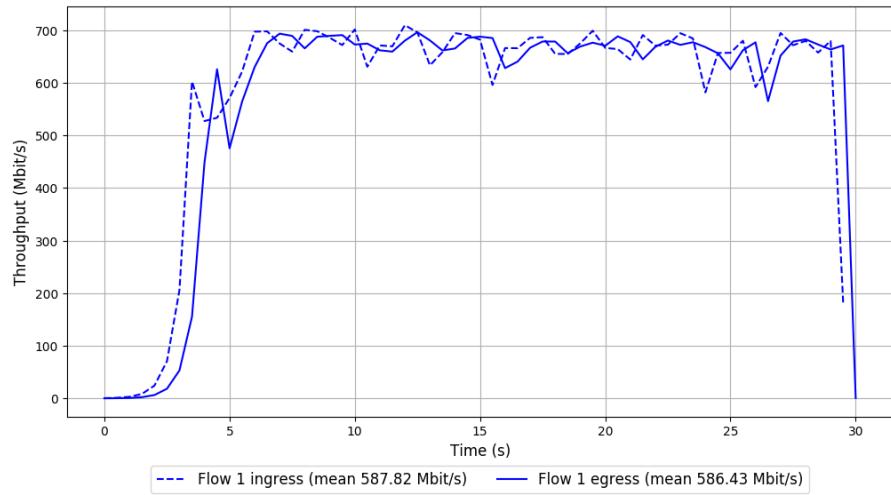


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 11:25:11
End at: 2019-11-24 11:25:41
Local clock offset: 0.067 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-11-24 14:10:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 586.43 Mbit/s
95th percentile per-packet one-way delay: 162.590 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 586.43 Mbit/s
95th percentile per-packet one-way delay: 162.590 ms
Loss rate: 1.14%
```

Run 3: Report of Muses\_DecisionTreeR0 — Data Link

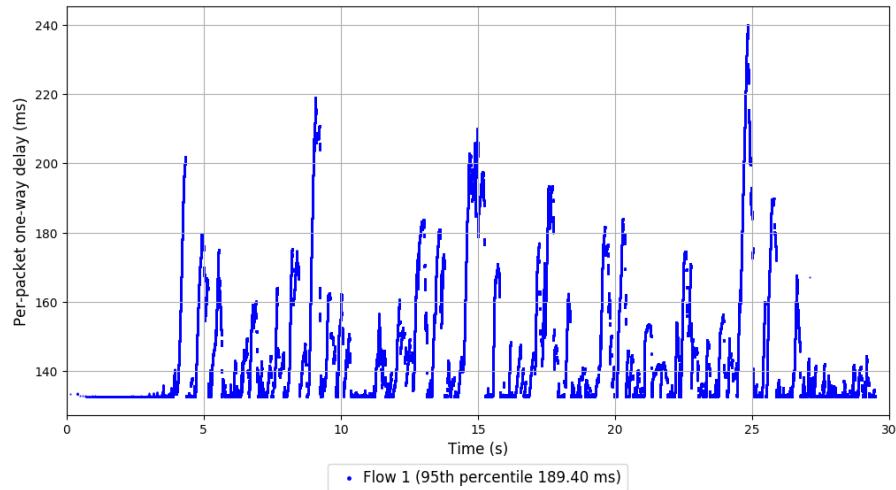
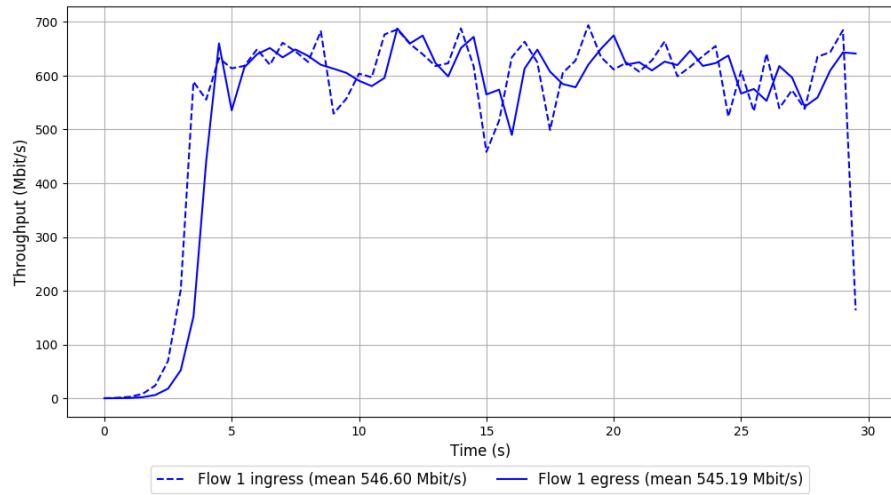


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 12:00:09
End at: 2019-11-24 12:00:39
Local clock offset: -0.064 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-11-24 14:10:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 545.19 Mbit/s
95th percentile per-packet one-way delay: 189.400 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 545.19 Mbit/s
95th percentile per-packet one-way delay: 189.400 ms
Loss rate: 1.15%
```

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

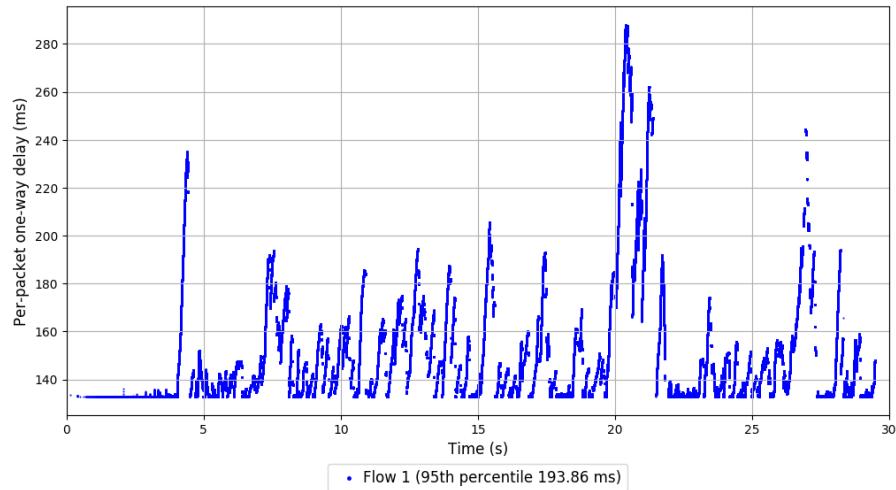
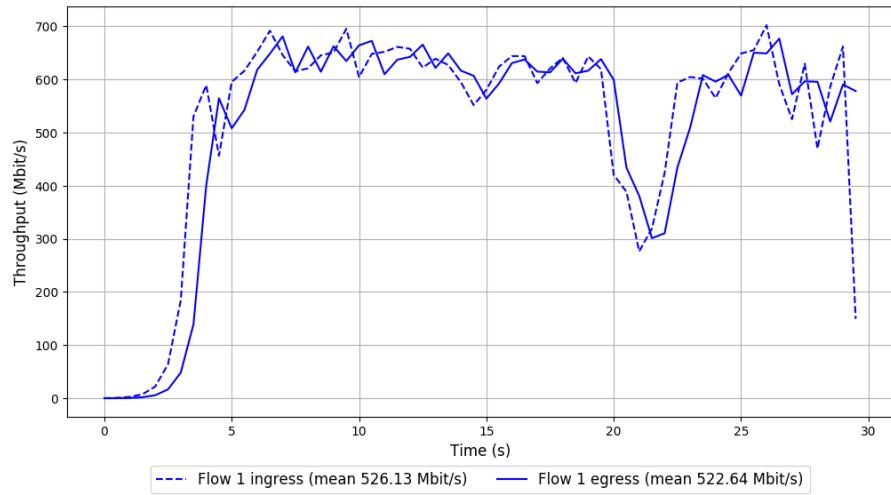


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 12:35:57
End at: 2019-11-24 12:36:27
Local clock offset: -0.082 ms
Remote clock offset: -0.236 ms

# Below is generated by plot.py at 2019-11-24 14:10:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 522.64 Mbit/s
95th percentile per-packet one-way delay: 193.856 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 522.64 Mbit/s
95th percentile per-packet one-way delay: 193.856 ms
Loss rate: 1.56%
```

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

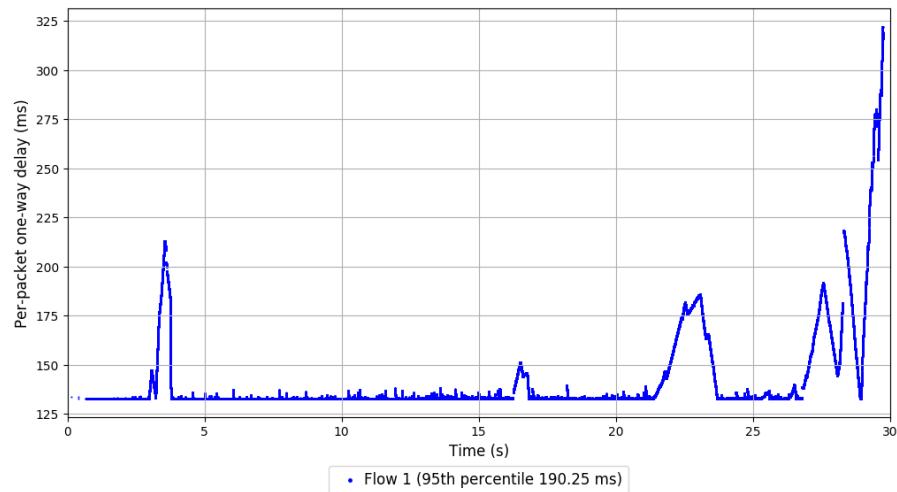
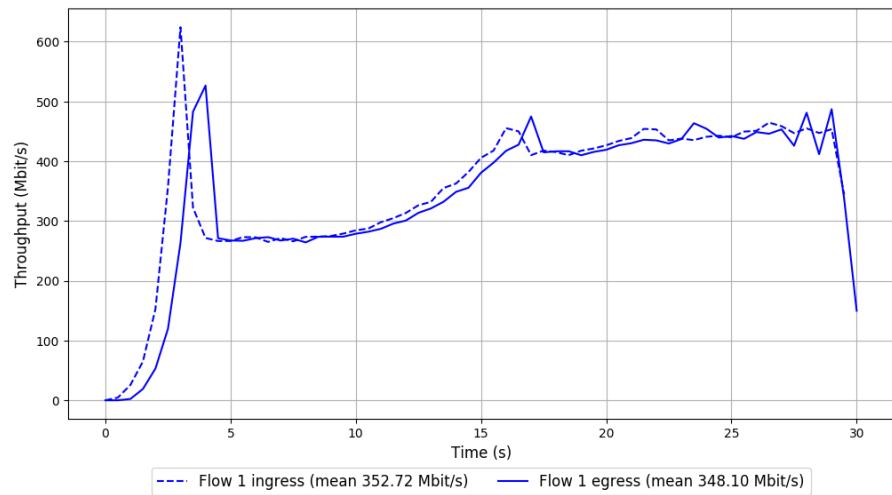


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-11-24 10:05:52
End at: 2019-11-24 10:06:22
Local clock offset: -0.086 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-11-24 14:12:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 348.10 Mbit/s
95th percentile per-packet one-way delay: 190.252 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 348.10 Mbit/s
95th percentile per-packet one-way delay: 190.252 ms
Loss rate: 2.19%
```

Run 1: Report of PCC-Allegro — Data Link

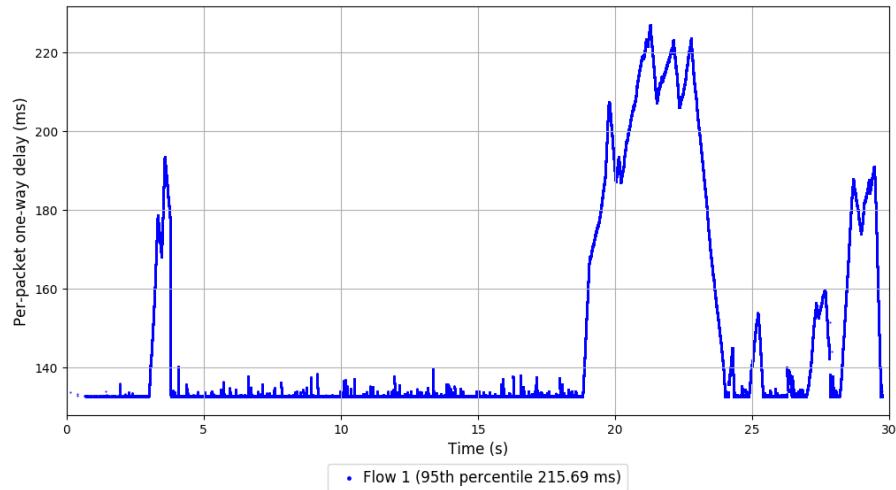
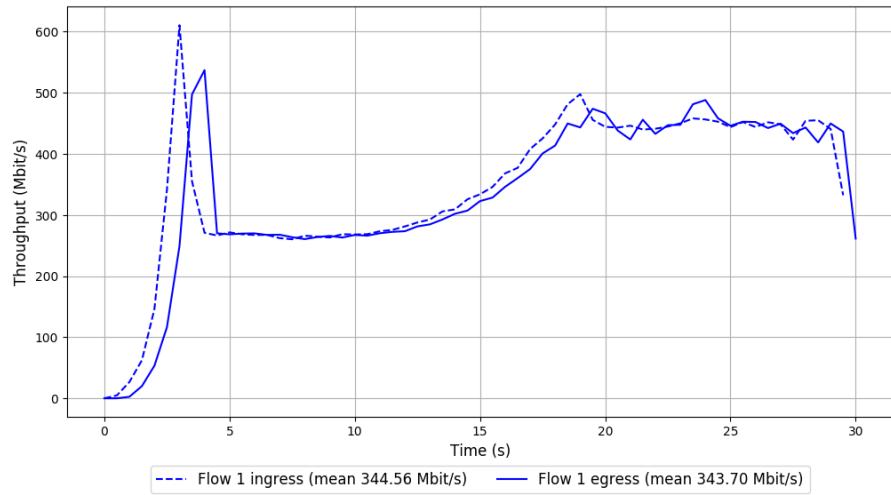


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-11-24 10:41:14
End at: 2019-11-24 10:41:44
Local clock offset: 0.016 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-11-24 14:12:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.70 Mbit/s
95th percentile per-packet one-way delay: 215.694 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 343.70 Mbit/s
95th percentile per-packet one-way delay: 215.694 ms
Loss rate: 1.13%
```

Run 2: Report of PCC-Allegro — Data Link

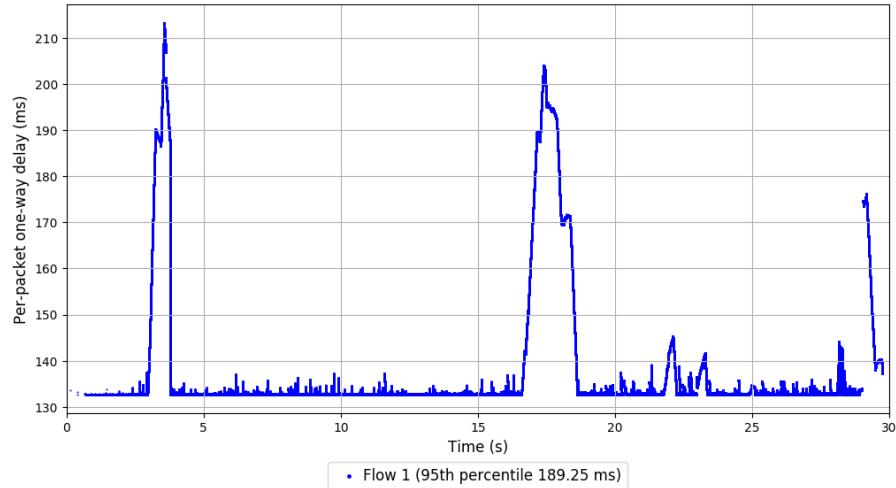
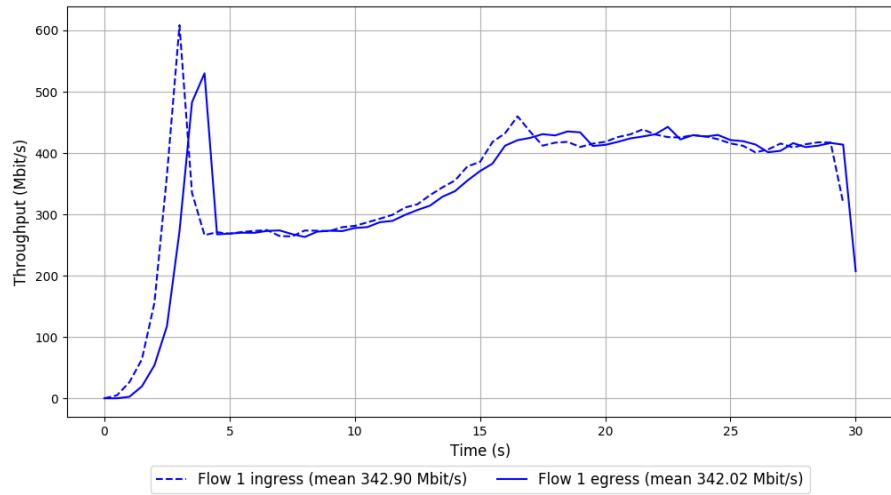


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-11-24 11:16:06
End at: 2019-11-24 11:16:36
Local clock offset: 0.063 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-11-24 14:17:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.02 Mbit/s
95th percentile per-packet one-way delay: 189.251 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 342.02 Mbit/s
95th percentile per-packet one-way delay: 189.251 ms
Loss rate: 1.15%
```

Run 3: Report of PCC-Allegro — Data Link

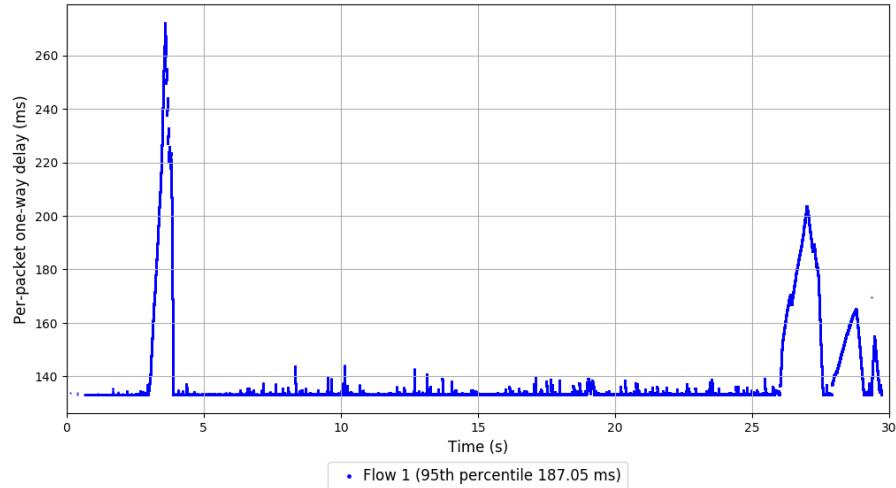
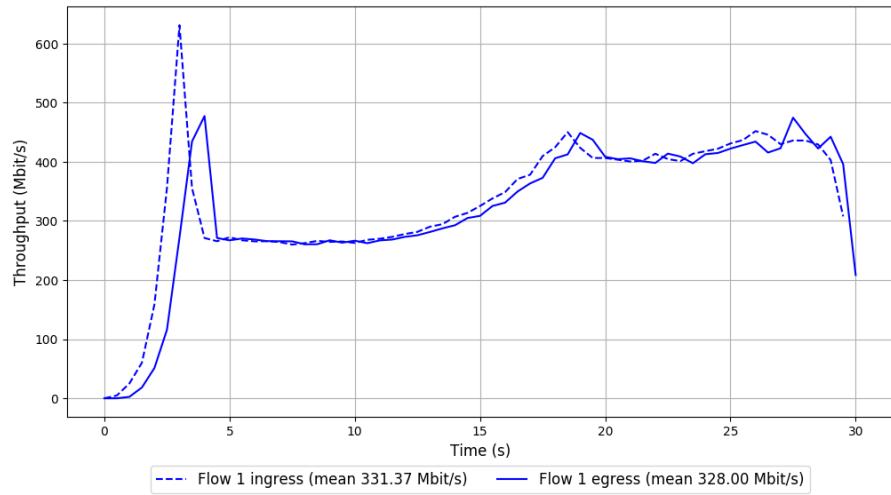


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-11-24 11:51:09
End at: 2019-11-24 11:51:39
Local clock offset: 0.275 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-11-24 14:19:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.00 Mbit/s
95th percentile per-packet one-way delay: 187.052 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 328.00 Mbit/s
95th percentile per-packet one-way delay: 187.052 ms
Loss rate: 1.90%
```

Run 4: Report of PCC-Allegro — Data Link

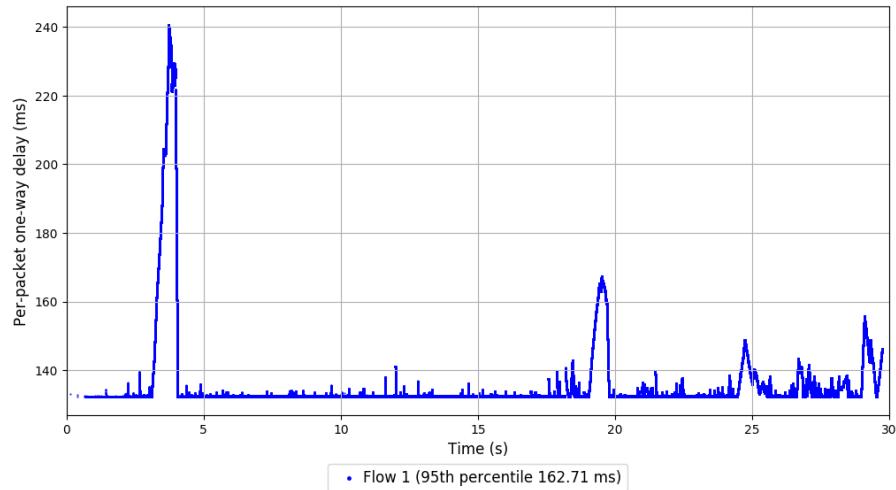
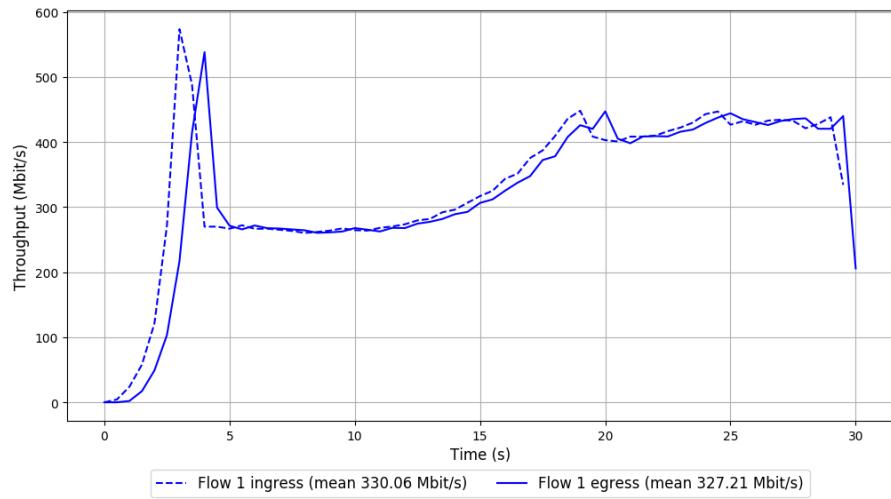


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-11-24 12:26:58
End at: 2019-11-24 12:27:28
Local clock offset: -0.107 ms
Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2019-11-24 14:21:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 327.21 Mbit/s
95th percentile per-packet one-way delay: 162.710 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 327.21 Mbit/s
95th percentile per-packet one-way delay: 162.710 ms
Loss rate: 1.75%
```

Run 5: Report of PCC-Allegro — Data Link

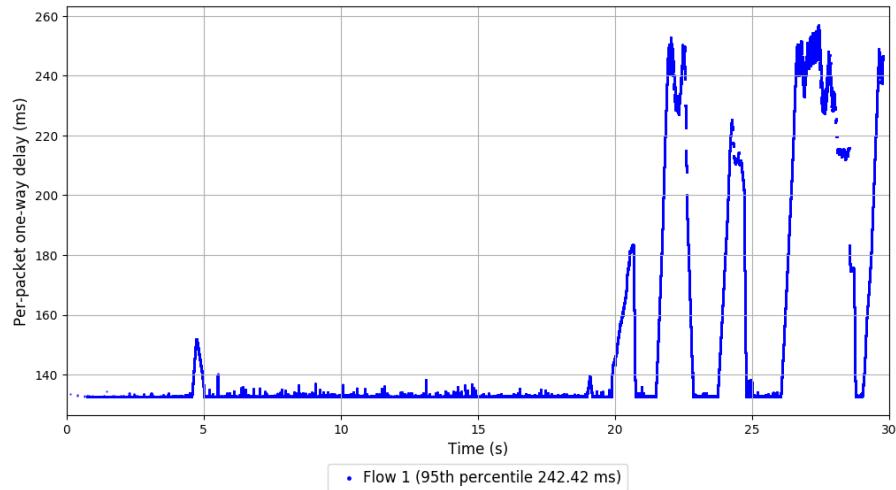
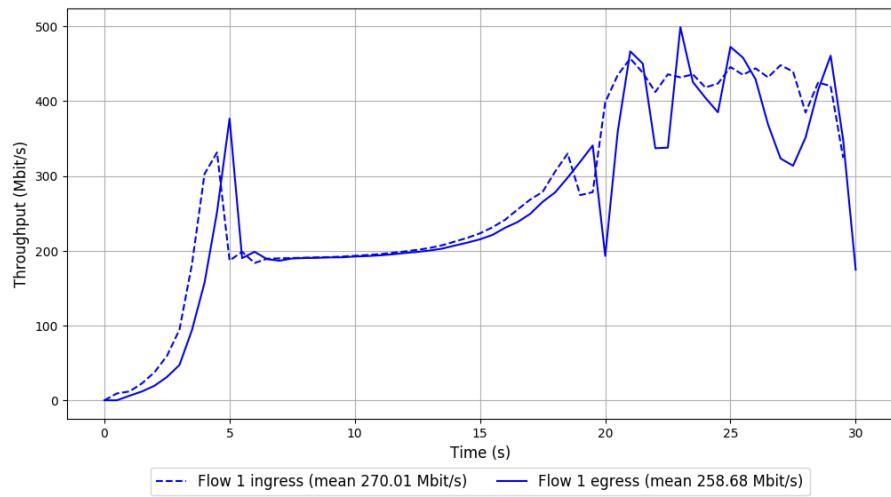


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-11-24 10:21:25
End at: 2019-11-24 10:21:55
Local clock offset: -0.019 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-11-24 14:21:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 258.68 Mbit/s
95th percentile per-packet one-way delay: 242.424 ms
Loss rate: 5.05%
-- Flow 1:
Average throughput: 258.68 Mbit/s
95th percentile per-packet one-way delay: 242.424 ms
Loss rate: 5.05%
```

Run 1: Report of PCC-Expr — Data Link

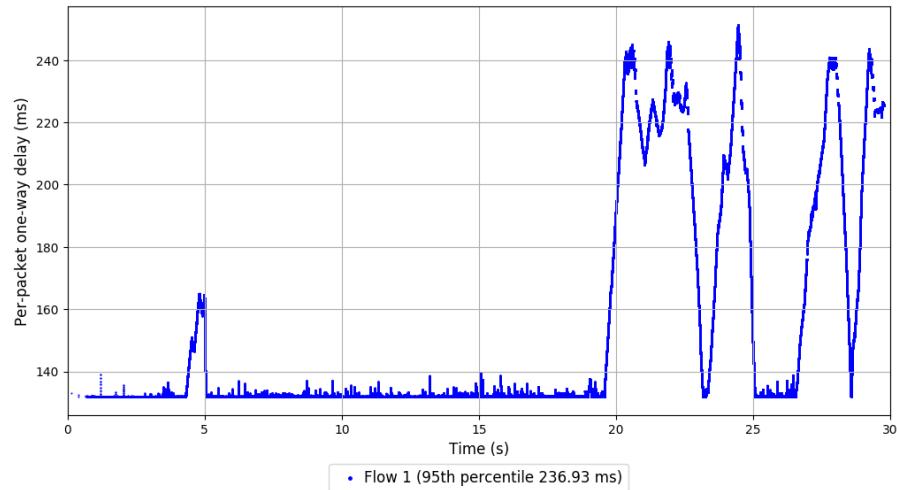
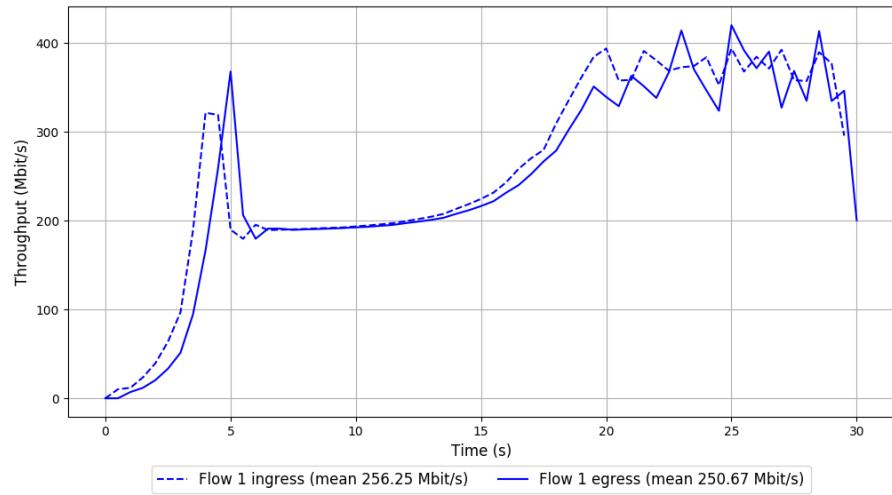


Run 2: Statistics of PCC-Expr

```
Start at: 2019-11-24 10:55:39
End at: 2019-11-24 10:56:09
Local clock offset: 0.071 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-11-24 14:21:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.67 Mbit/s
95th percentile per-packet one-way delay: 236.927 ms
Loss rate: 3.04%
-- Flow 1:
Average throughput: 250.67 Mbit/s
95th percentile per-packet one-way delay: 236.927 ms
Loss rate: 3.04%
```

Run 2: Report of PCC-Expr — Data Link

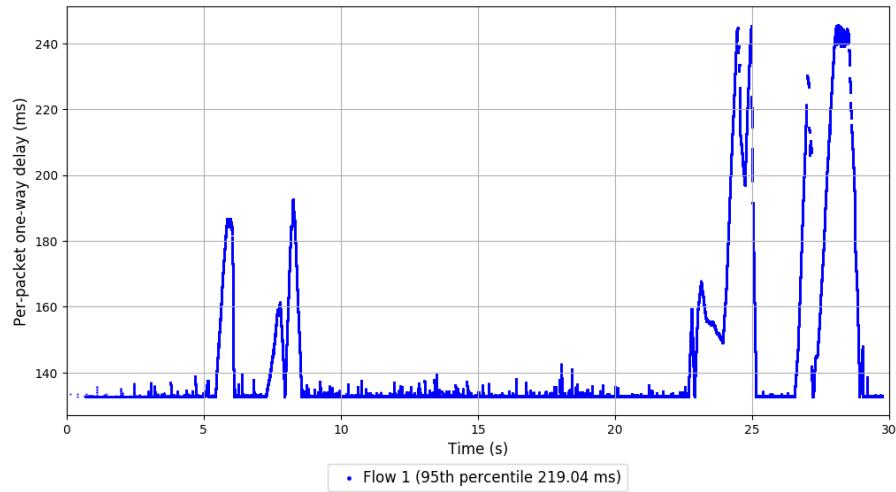
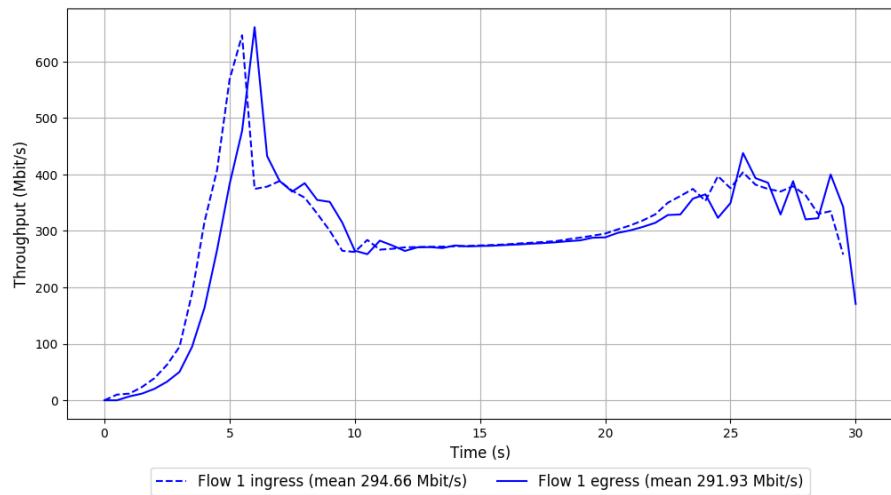


Run 3: Statistics of PCC-Expr

```
Start at: 2019-11-24 11:31:05
End at: 2019-11-24 11:31:35
Local clock offset: -0.019 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-11-24 14:21:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 291.93 Mbit/s
95th percentile per-packet one-way delay: 219.040 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 291.93 Mbit/s
95th percentile per-packet one-way delay: 219.040 ms
Loss rate: 1.82%
```

Run 3: Report of PCC-Expr — Data Link

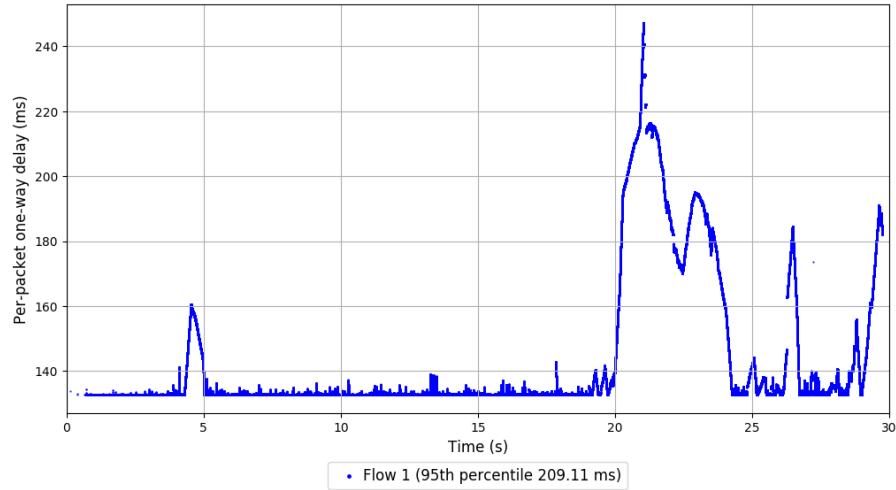
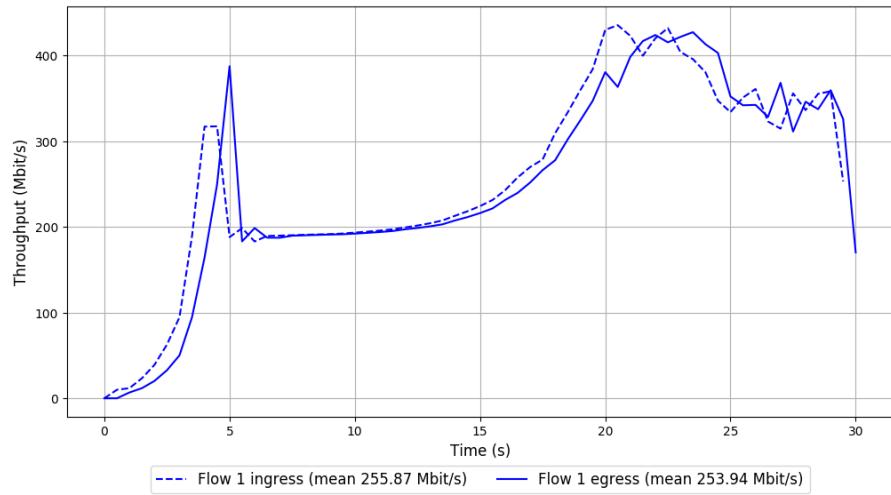


Run 4: Statistics of PCC-Expr

```
Start at: 2019-11-24 12:06:40
End at: 2019-11-24 12:07:10
Local clock offset: -0.129 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-11-24 14:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 253.94 Mbit/s
95th percentile per-packet one-way delay: 209.106 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 253.94 Mbit/s
95th percentile per-packet one-way delay: 209.106 ms
Loss rate: 1.64%
```

Run 4: Report of PCC-Expr — Data Link

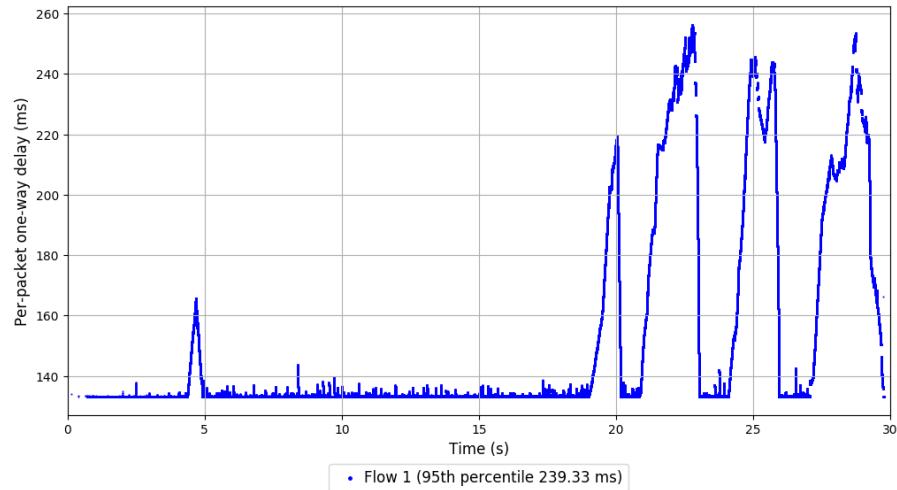
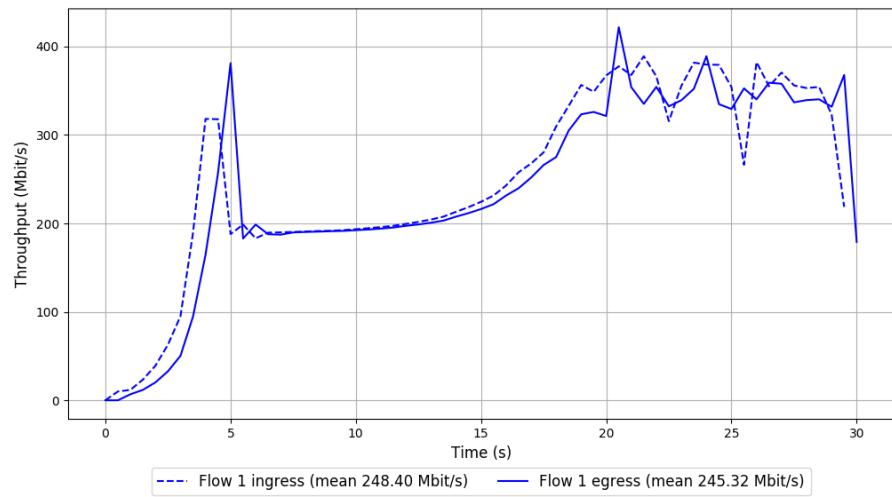


Run 5: Statistics of PCC-Expr

```
Start at: 2019-11-24 12:42:23
End at: 2019-11-24 12:42:53
Local clock offset: 0.298 ms
Remote clock offset: -0.286 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 245.32 Mbit/s
95th percentile per-packet one-way delay: 239.326 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 245.32 Mbit/s
95th percentile per-packet one-way delay: 239.326 ms
Loss rate: 2.12%
```

Run 5: Report of PCC-Expr — Data Link

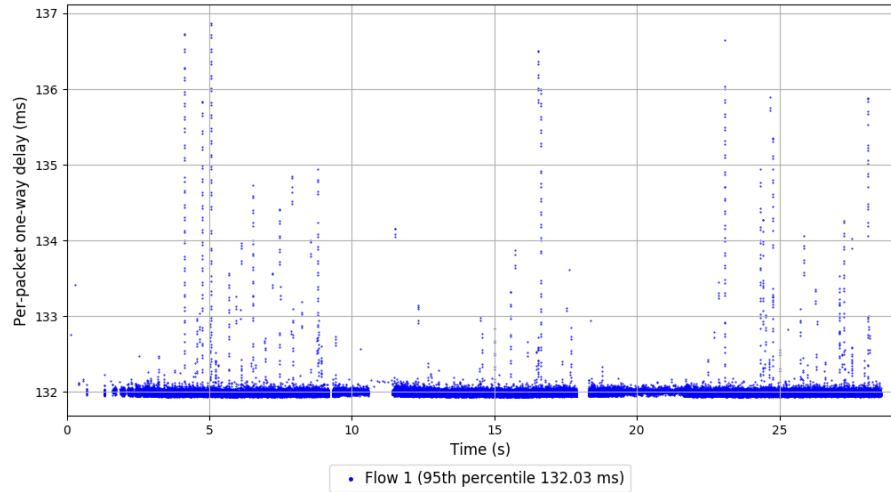
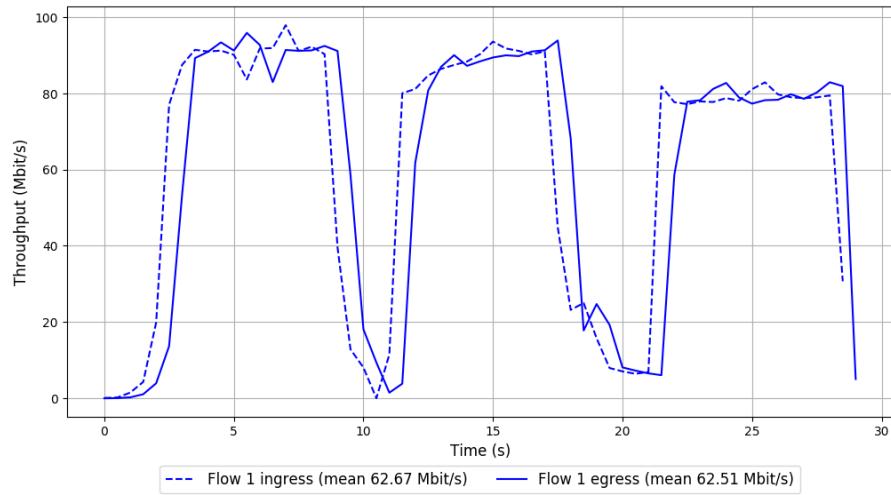


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-11-24 10:24:21
End at: 2019-11-24 10:24:51
Local clock offset: 0.05 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.51 Mbit/s
95th percentile per-packet one-way delay: 132.025 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 62.51 Mbit/s
95th percentile per-packet one-way delay: 132.025 ms
Loss rate: 1.18%
```

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

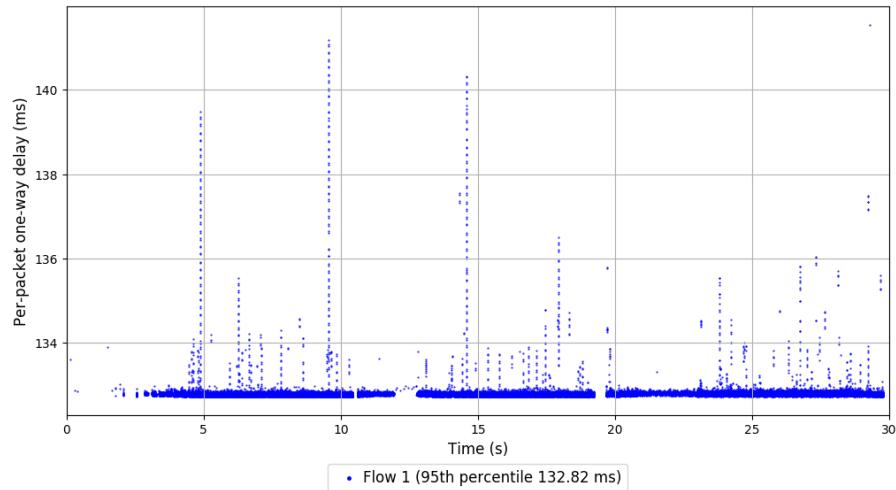
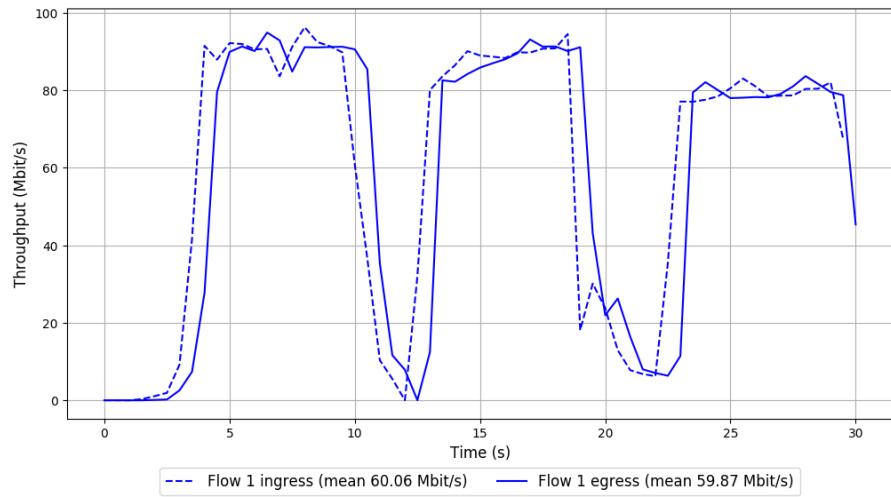


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-11-24 10:58:41
End at: 2019-11-24 10:59:11
Local clock offset: 0.044 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.87 Mbit/s
95th percentile per-packet one-way delay: 132.823 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 59.87 Mbit/s
95th percentile per-packet one-way delay: 132.823 ms
Loss rate: 1.20%
```

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

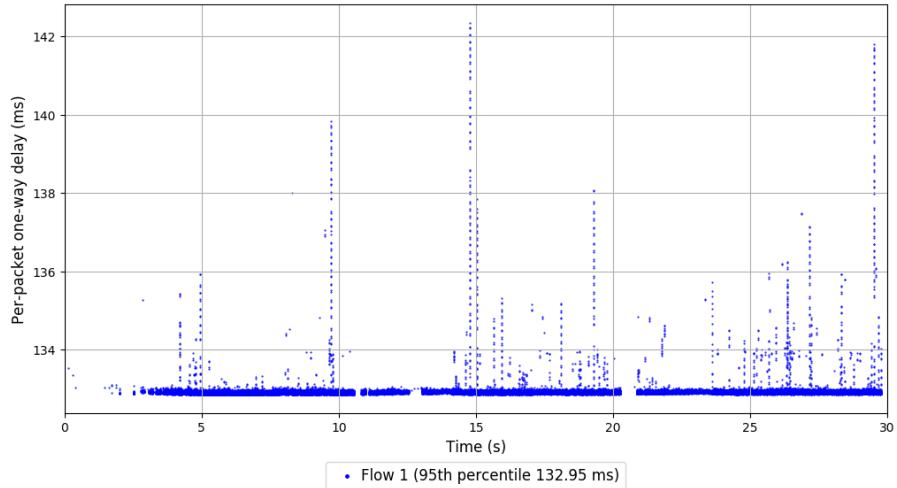
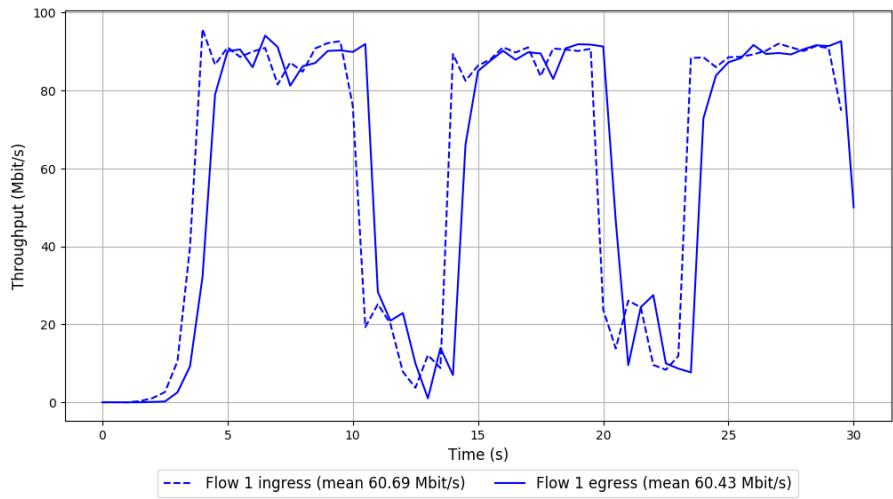


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-11-24 11:33:58
End at: 2019-11-24 11:34:28
Local clock offset: -0.001 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.43 Mbit/s
95th percentile per-packet one-way delay: 132.953 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 60.43 Mbit/s
95th percentile per-packet one-way delay: 132.953 ms
Loss rate: 1.31%
```

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

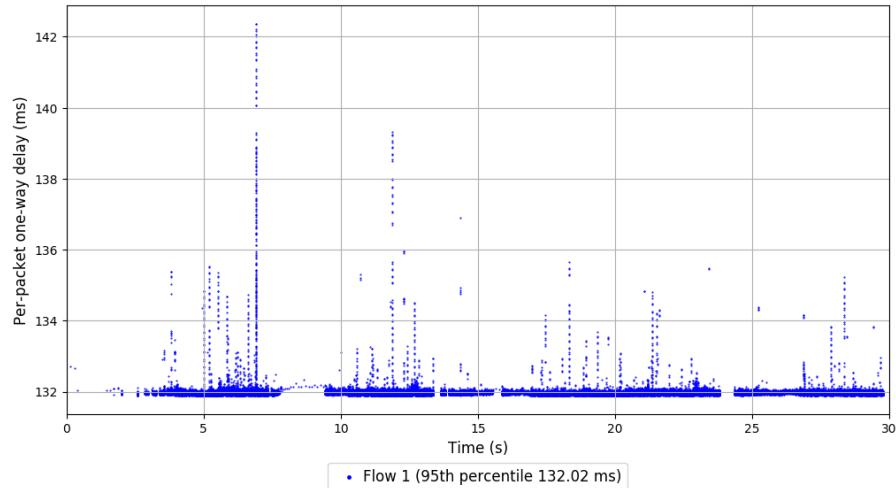
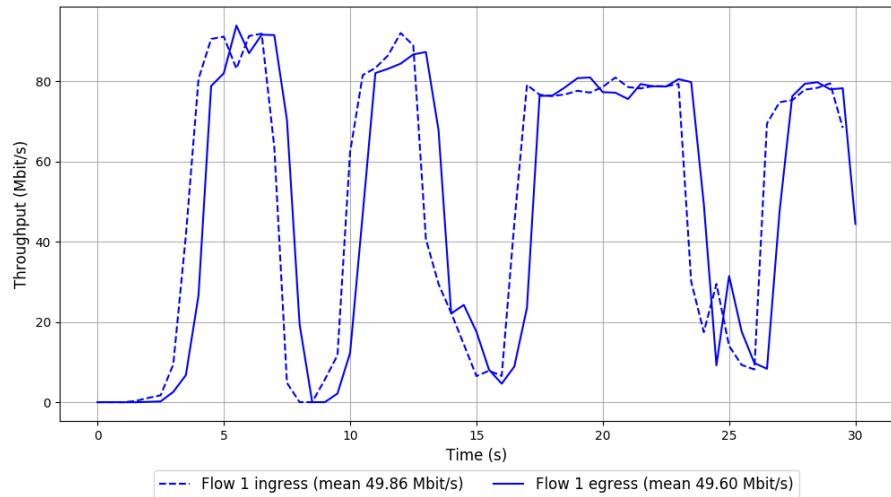


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-11-24 12:09:56
End at: 2019-11-24 12:10:27
Local clock offset: -0.099 ms
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.60 Mbit/s
95th percentile per-packet one-way delay: 132.021 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 49.60 Mbit/s
95th percentile per-packet one-way delay: 132.021 ms
Loss rate: 1.41%
```

Run 4: Report of QUIC Cubic — Data Link

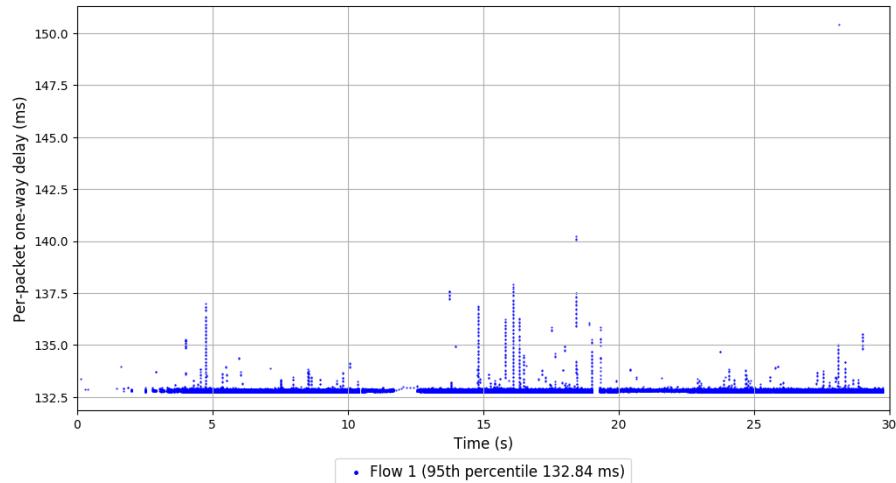
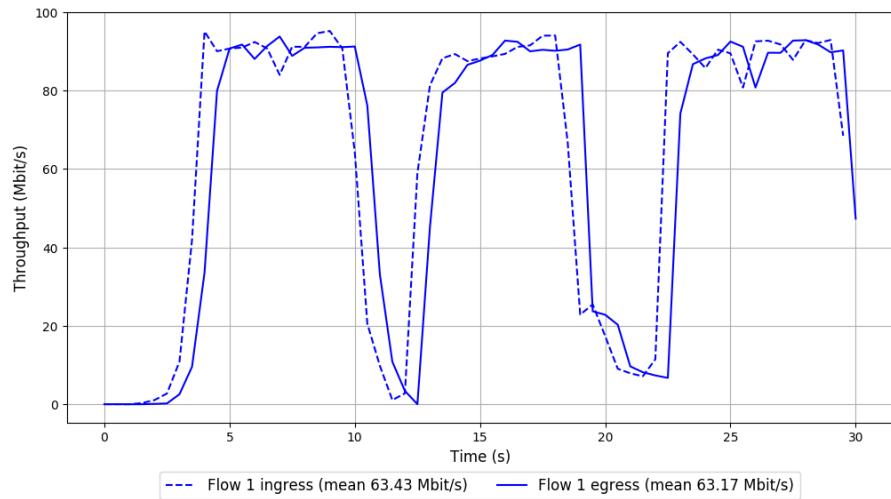


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-11-24 12:45:13
End at: 2019-11-24 12:45:43
Local clock offset: -0.089 ms
Remote clock offset: -0.297 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.17 Mbit/s
95th percentile per-packet one-way delay: 132.843 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 63.17 Mbit/s
95th percentile per-packet one-way delay: 132.843 ms
Loss rate: 1.29%
```

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

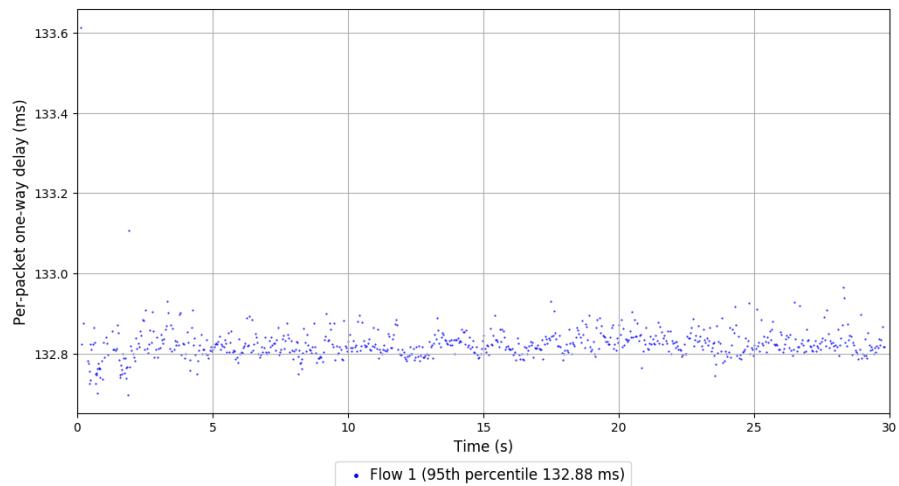
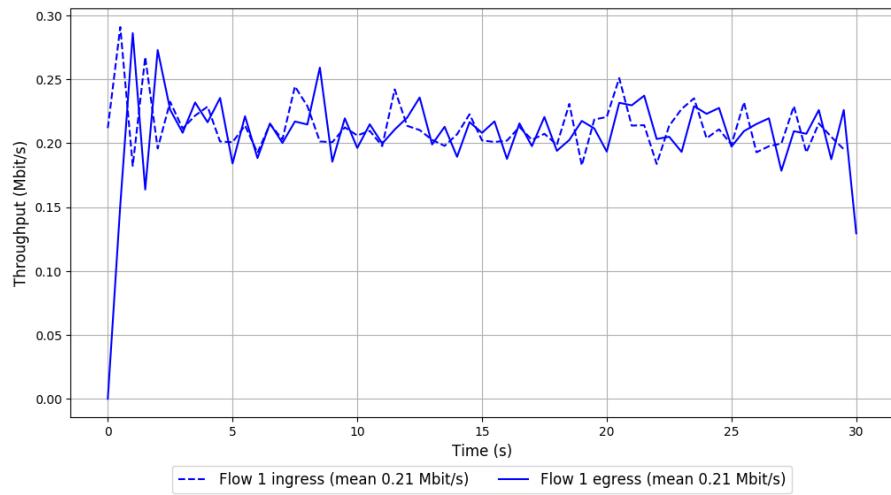


Run 1: Statistics of SCReAM

```
Start at: 2019-11-24 10:13:42
End at: 2019-11-24 10:14:12
Local clock offset: -0.013 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 132.884 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 132.884 ms
Loss rate: 0.89%
```

Run 1: Report of SCReAM — Data Link

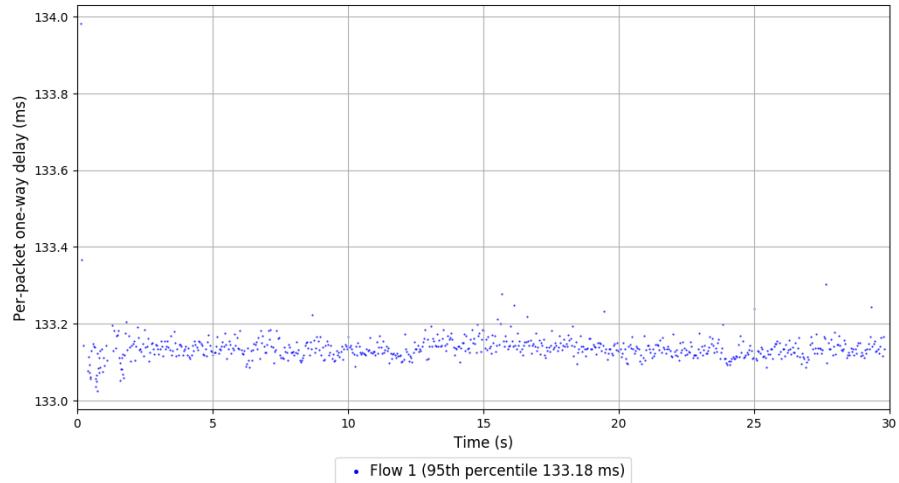
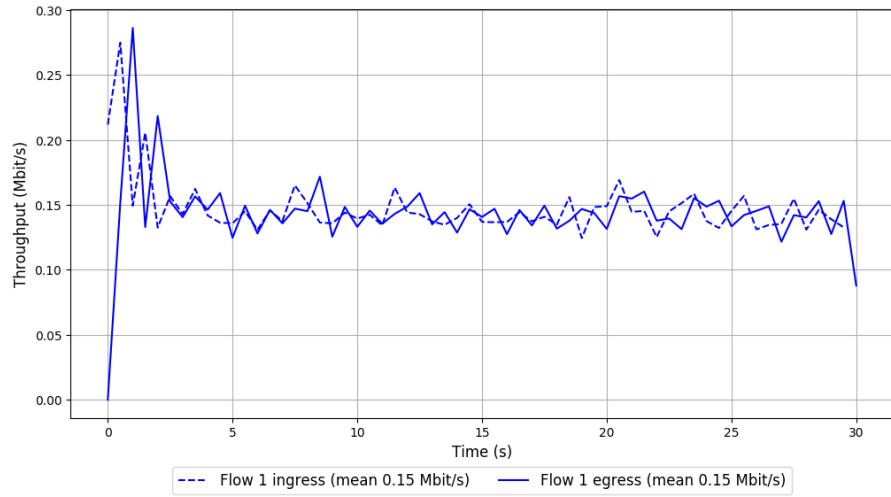


Run 2: Statistics of SCReAM

```
Start at: 2019-11-24 10:49:02
End at: 2019-11-24 10:49:32
Local clock offset: 0.391 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.175 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.175 ms
Loss rate: 0.88%
```

## Run 2: Report of SCReAM — Data Link

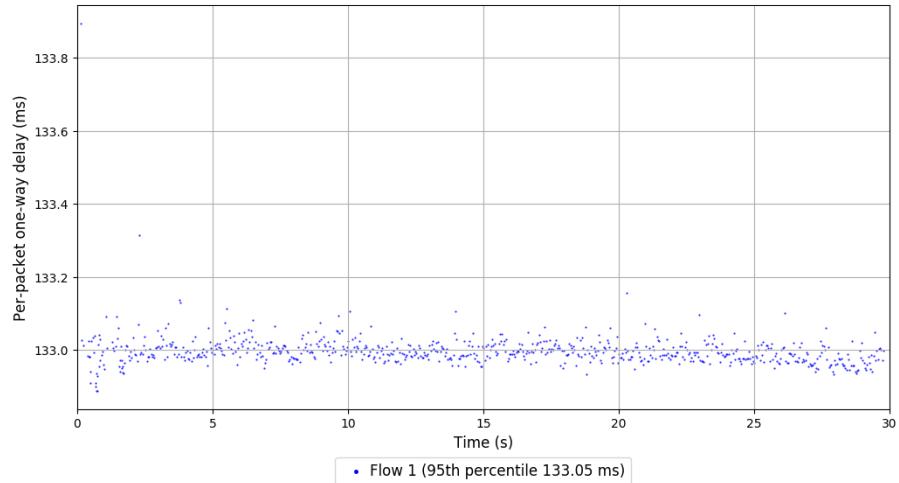
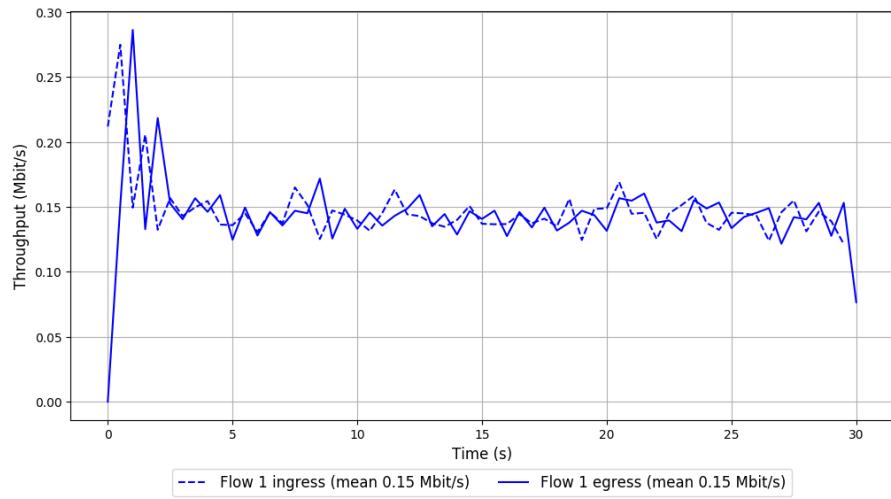


Run 3: Statistics of SCReAM

```
Start at: 2019-11-24 11:24:00
End at: 2019-11-24 11:24:30
Local clock offset: 0.019 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.050 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.050 ms
Loss rate: 0.88%
```

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

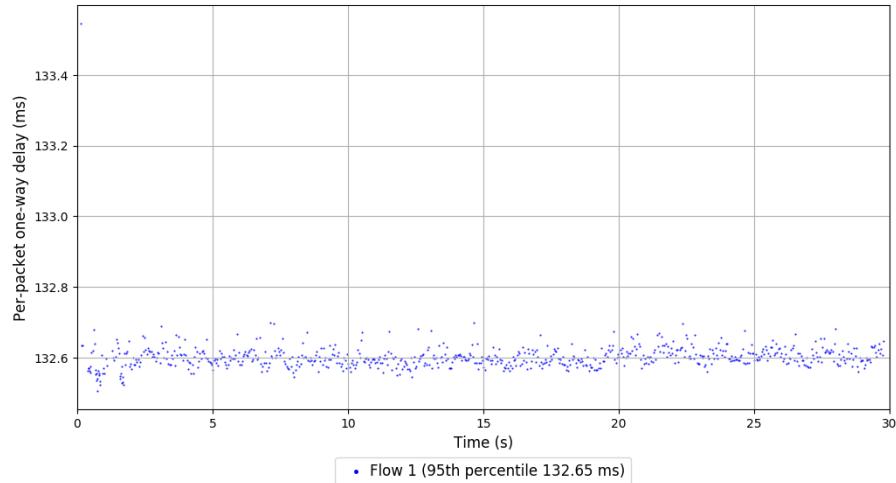
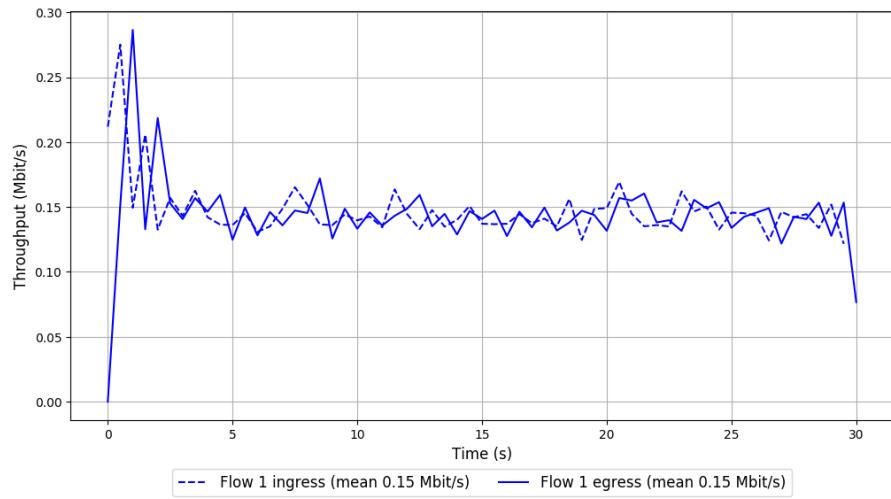


Run 4: Statistics of SCReAM

```
Start at: 2019-11-24 11:58:58
End at: 2019-11-24 11:59:28
Local clock offset: -0.091 ms
Remote clock offset: 0.257 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.652 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.652 ms
Loss rate: 0.88%
```

Run 4: Report of SCReAM — Data Link

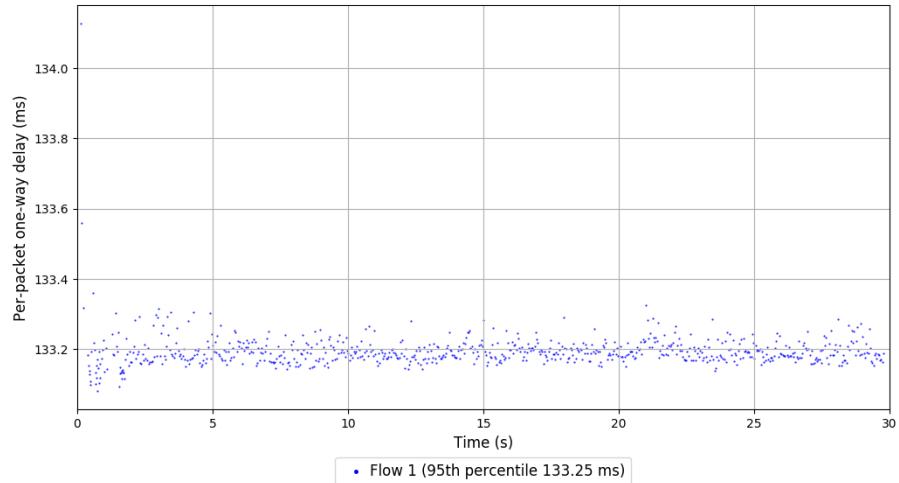
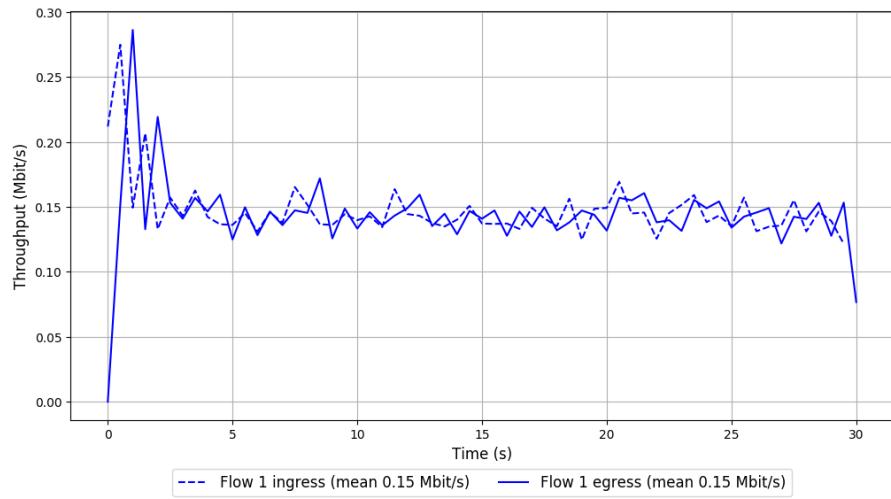


Run 5: Statistics of SCReAM

```
Start at: 2019-11-24 12:34:47
End at: 2019-11-24 12:35:17
Local clock offset: 0.259 ms
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.255 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.255 ms
Loss rate: 0.88%
```

Run 5: Report of SCReAM — Data Link

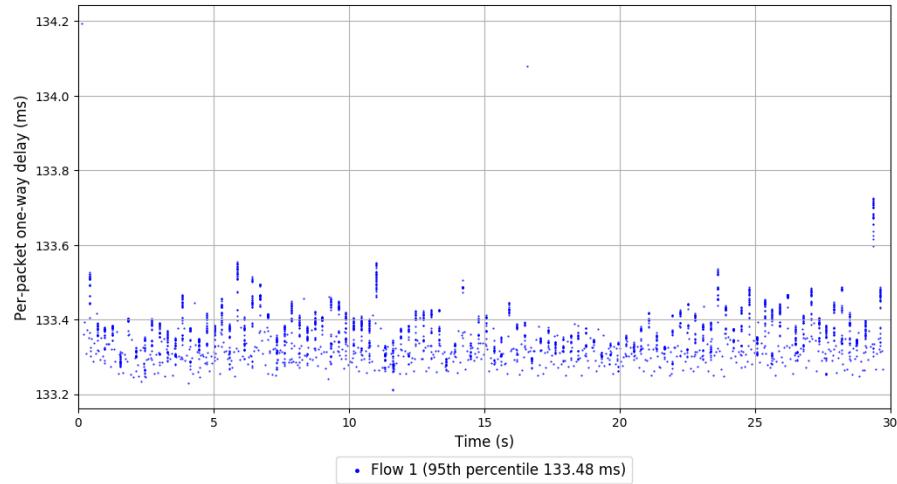
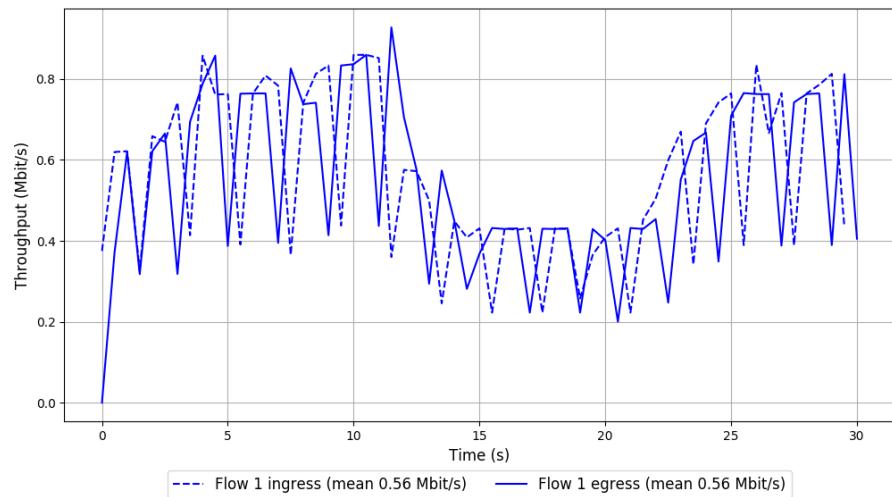


Run 1: Statistics of Sprout

```
Start at: 2019-11-24 09:59:24
End at: 2019-11-24 09:59:54
Local clock offset: 0.282 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 133.482 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 133.482 ms
Loss rate: 1.28%
```

Run 1: Report of Sprout — Data Link

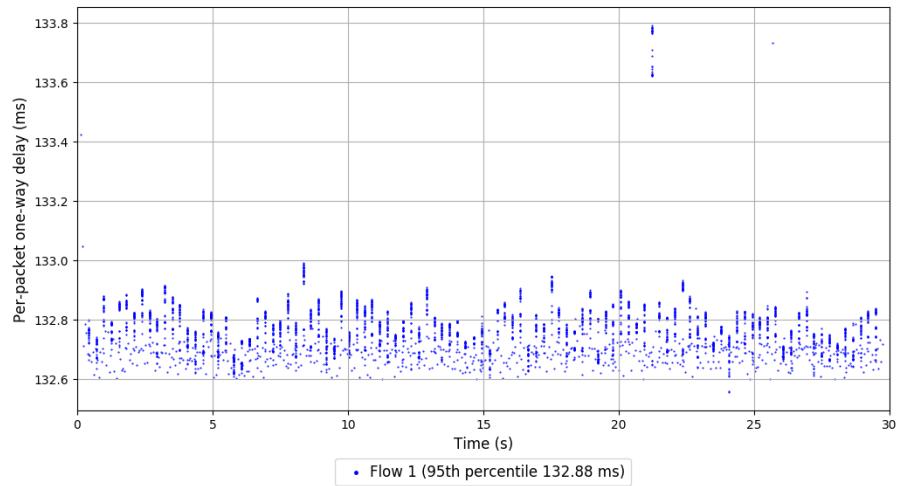
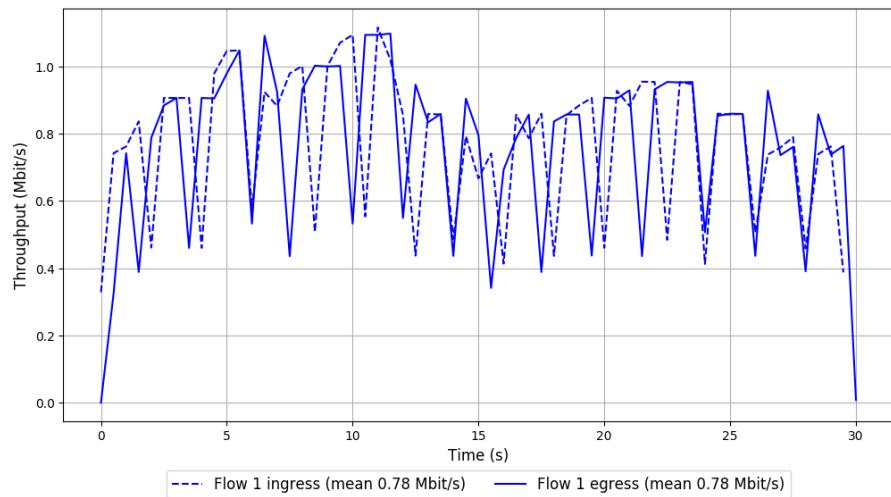


Run 2: Statistics of Sprout

```
Start at: 2019-11-24 10:34:41
End at: 2019-11-24 10:35:11
Local clock offset: -0.167 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 132.883 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 132.883 ms
Loss rate: 0.82%
```

## Run 2: Report of Sprout — Data Link

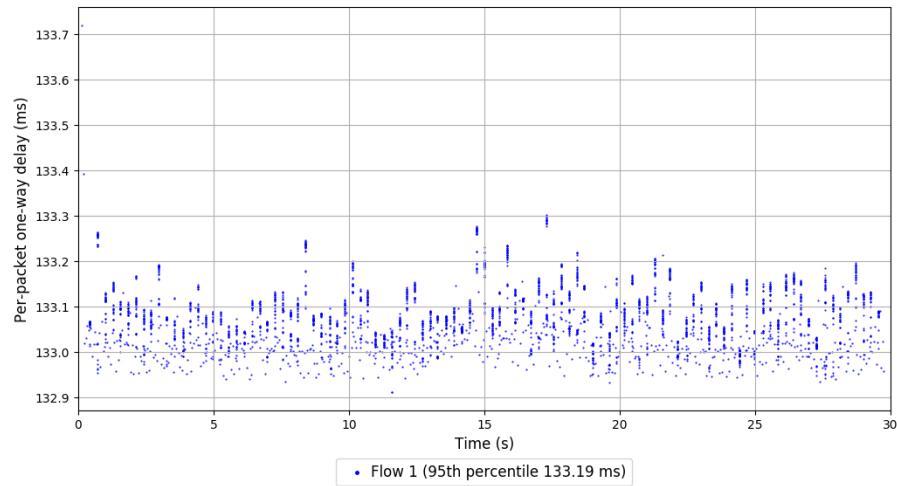
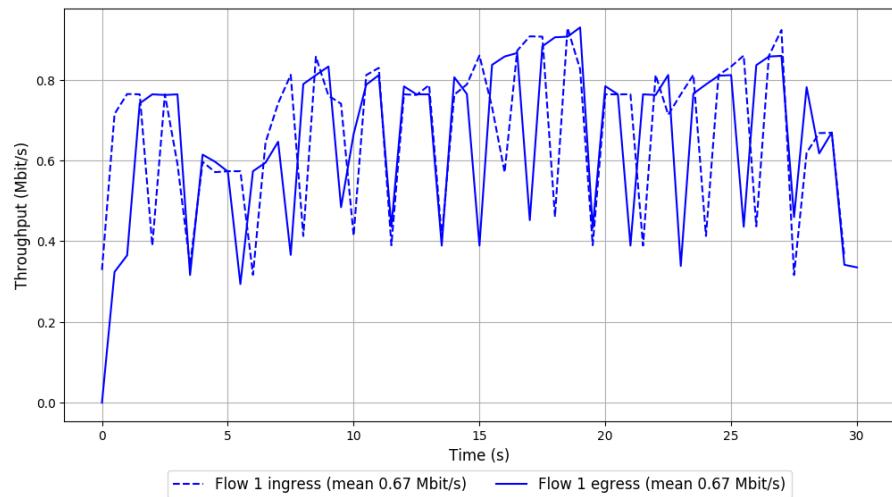


Run 3: Statistics of Sprout

```
Start at: 2019-11-24 11:09:06
End at: 2019-11-24 11:09:36
Local clock offset: 0.038 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 133.187 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 133.187 ms
Loss rate: 0.89%
```

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

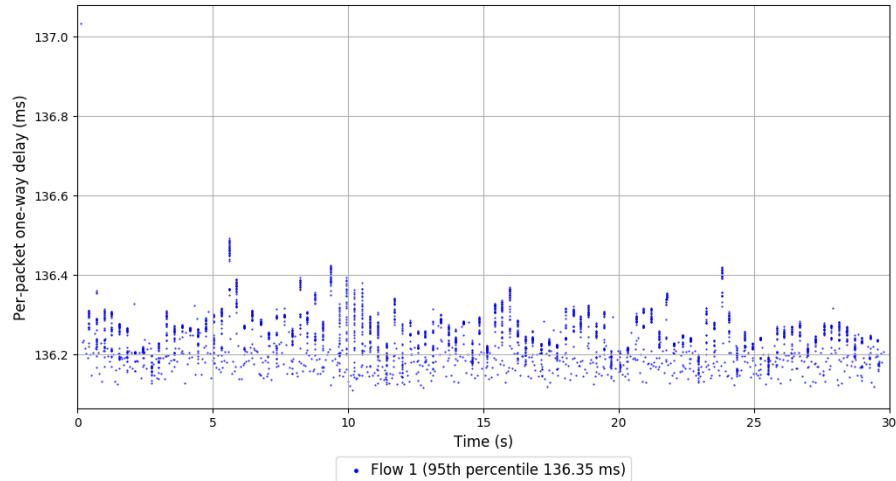
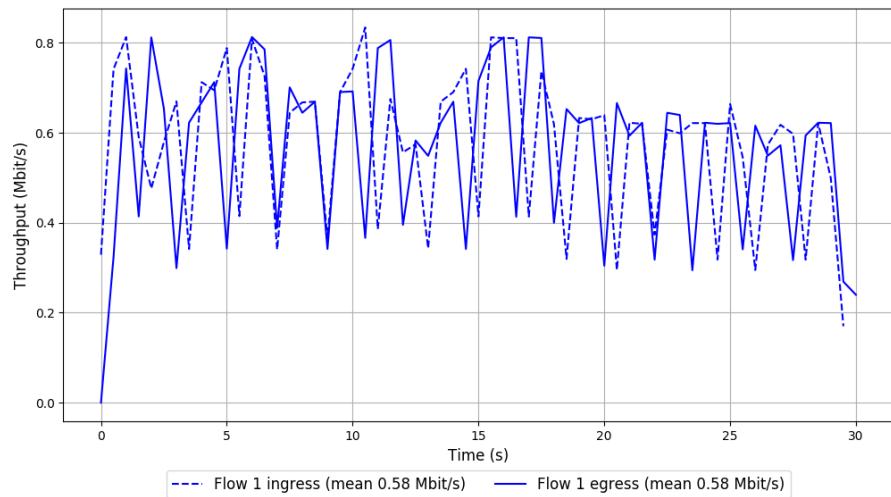


Run 4: Statistics of Sprout

```
Start at: 2019-11-24 11:44:17
End at: 2019-11-24 11:44:47
Local clock offset: -0.076 ms
Remote clock offset: -0.443 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 136.347 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 136.347 ms
Loss rate: 0.48%
```

## Run 4: Report of Sprout — Data Link

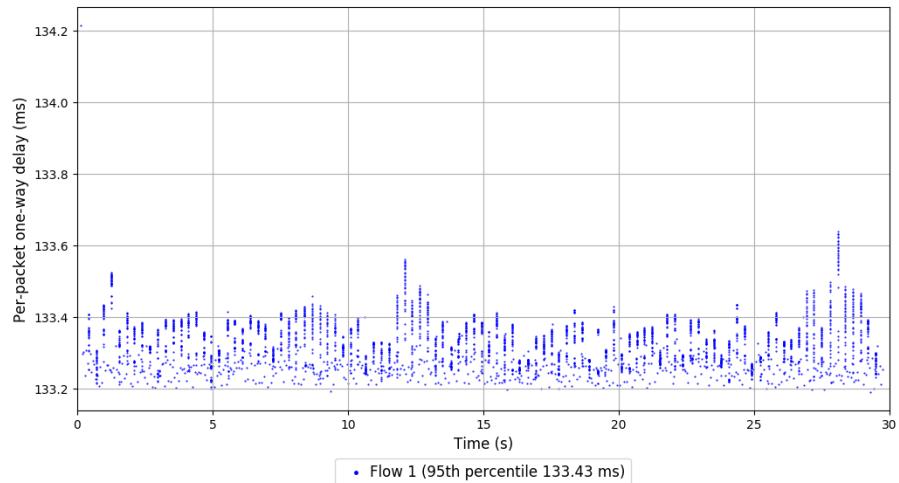
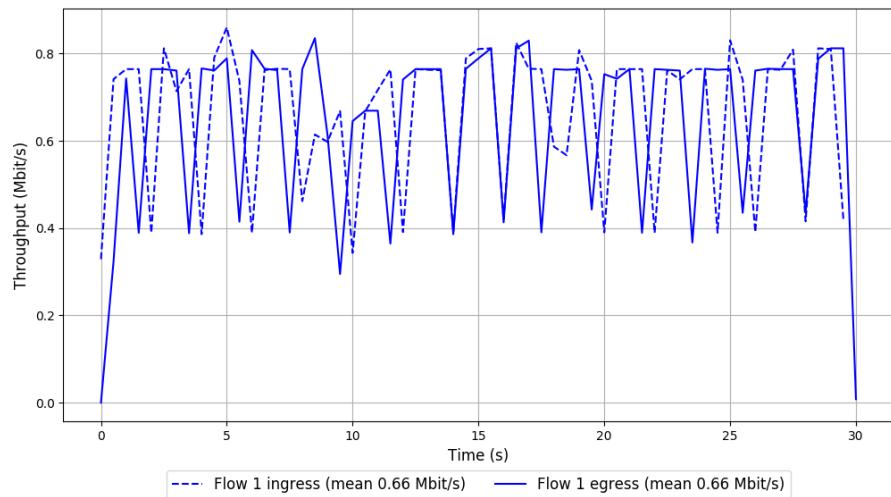


Run 5: Statistics of Sprout

```
Start at: 2019-11-24 12:20:24
End at: 2019-11-24 12:20:54
Local clock offset: 0.233 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2019-11-24 14:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 133.429 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 133.429 ms
Loss rate: 1.04%
```

## Run 5: Report of Sprout — Data Link

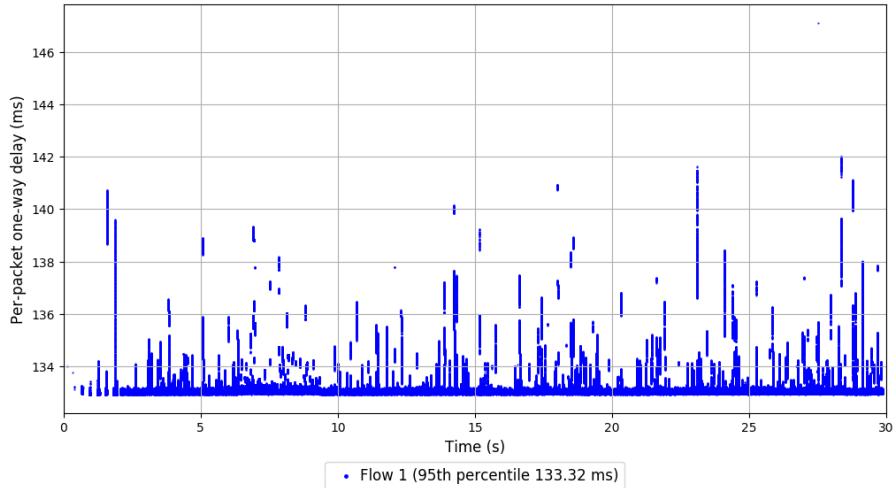
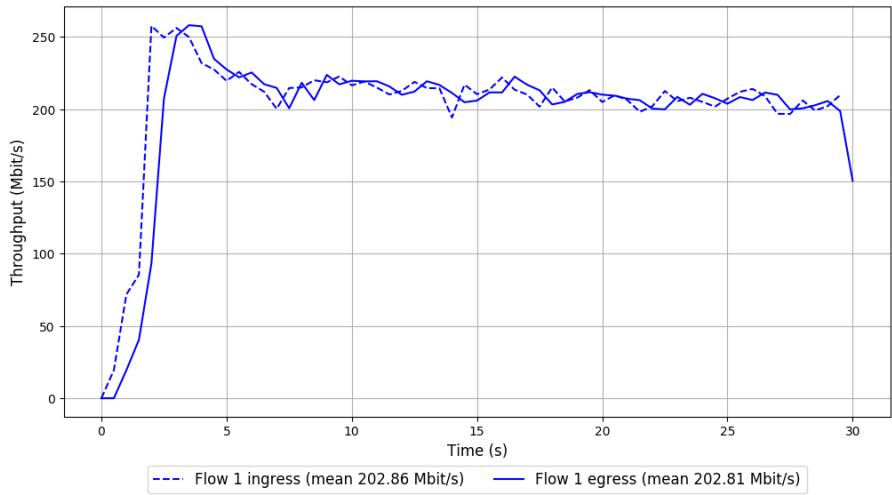


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-11-24 10:07:28
End at: 2019-11-24 10:07:58
Local clock offset: 0.248 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-11-24 14:26:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.81 Mbit/s
95th percentile per-packet one-way delay: 133.317 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 202.81 Mbit/s
95th percentile per-packet one-way delay: 133.317 ms
Loss rate: 0.92%
```

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

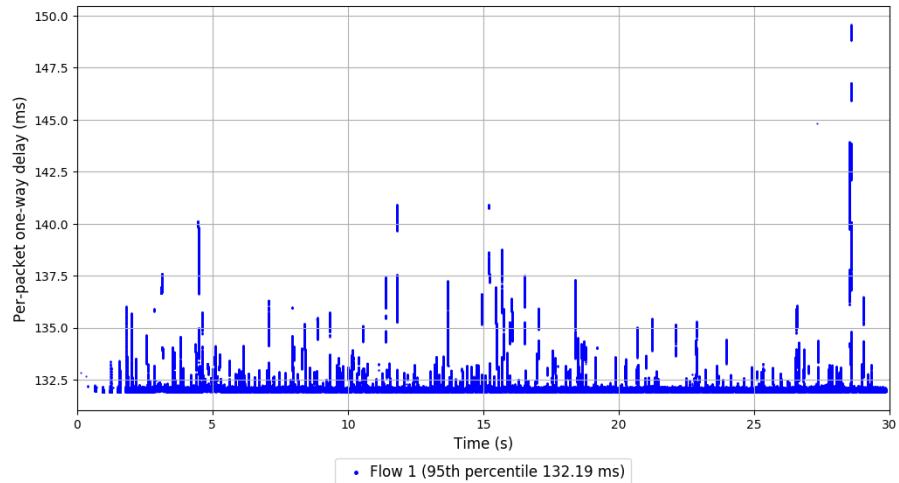
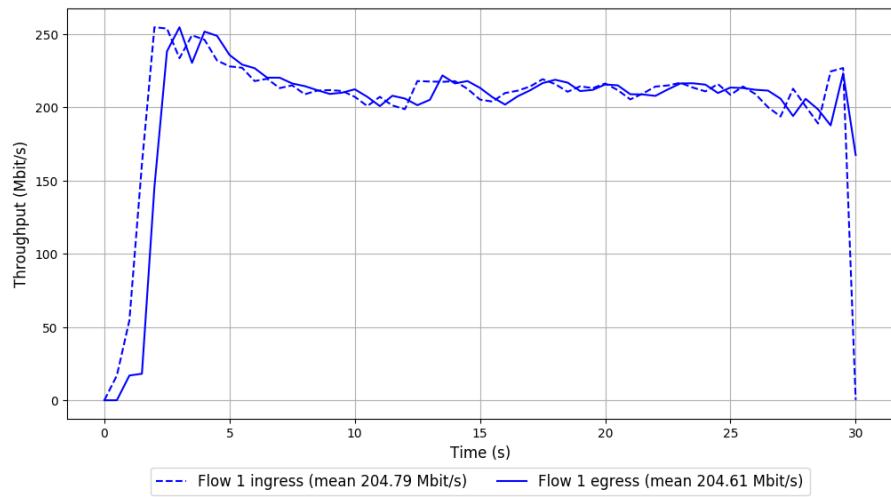


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-11-24 10:42:50
End at: 2019-11-24 10:43:20
Local clock offset: 0.028 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-11-24 14:26:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.61 Mbit/s
95th percentile per-packet one-way delay: 132.190 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 204.61 Mbit/s
95th percentile per-packet one-way delay: 132.190 ms
Loss rate: 0.98%
```

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

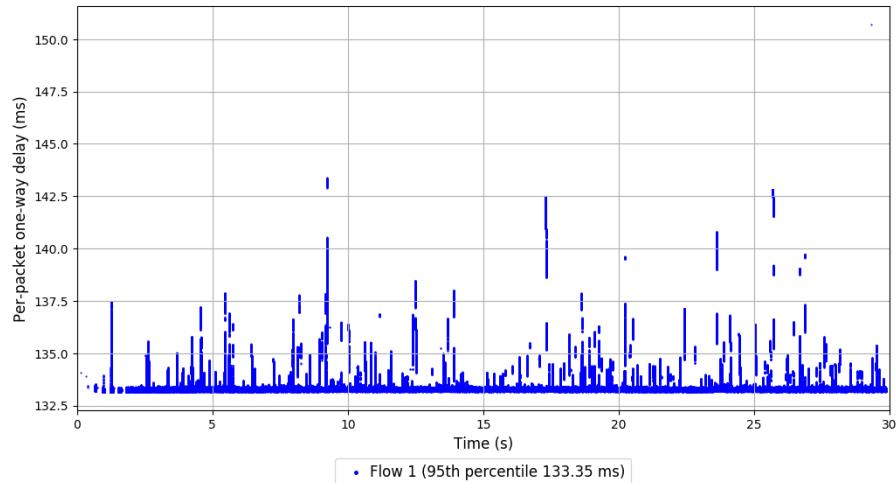
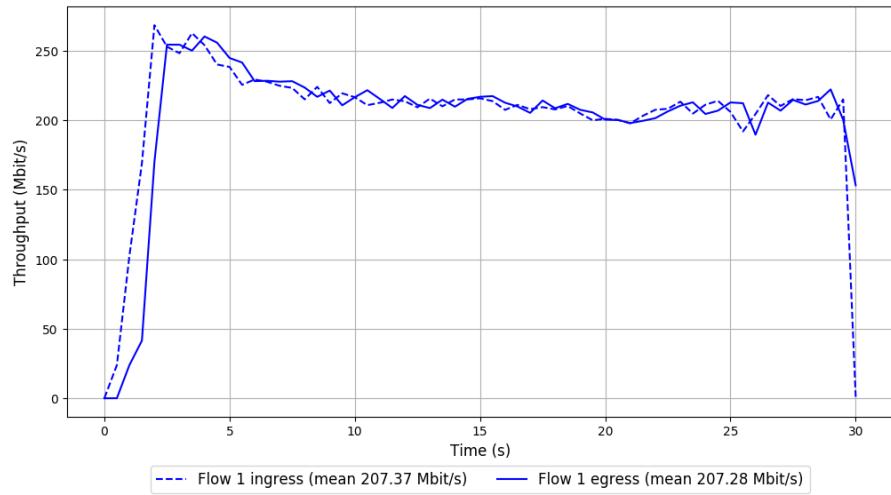


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-11-24 11:17:42
End at: 2019-11-24 11:18:12
Local clock offset: 0.4 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-11-24 14:27:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.28 Mbit/s
95th percentile per-packet one-way delay: 133.354 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 207.28 Mbit/s
95th percentile per-packet one-way delay: 133.354 ms
Loss rate: 0.94%
```

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

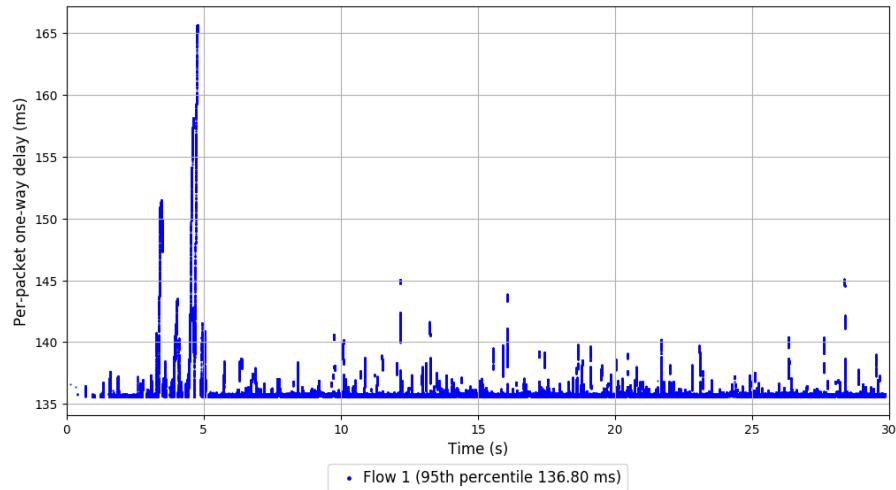
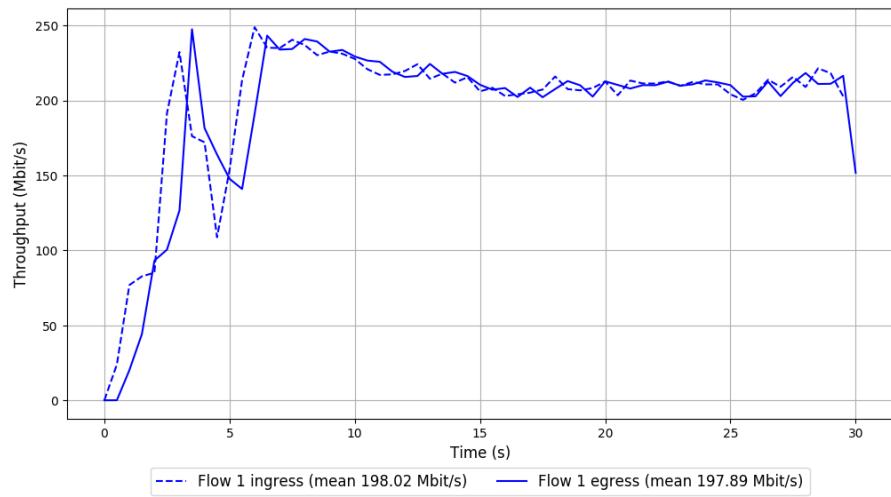


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-11-24 11:52:44
End at: 2019-11-24 11:53:14
Local clock offset: -0.073 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-11-24 14:27:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.89 Mbit/s
95th percentile per-packet one-way delay: 136.802 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 197.89 Mbit/s
95th percentile per-packet one-way delay: 136.802 ms
Loss rate: 0.97%
```

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

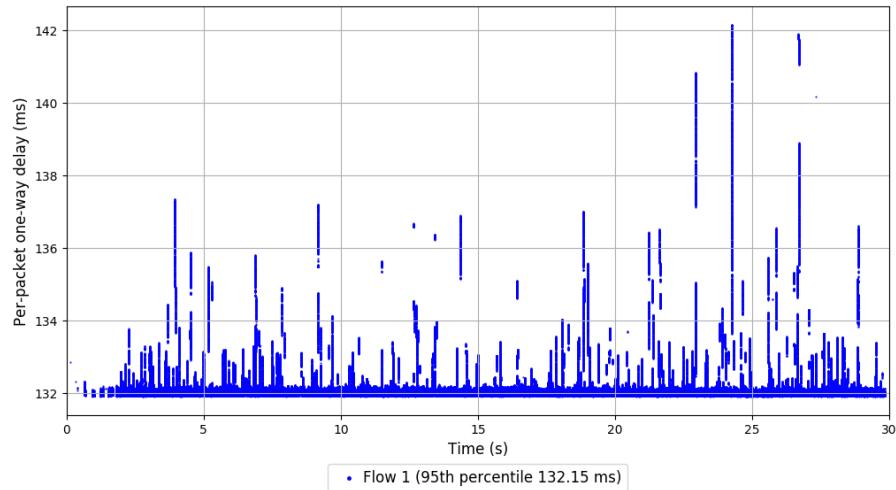
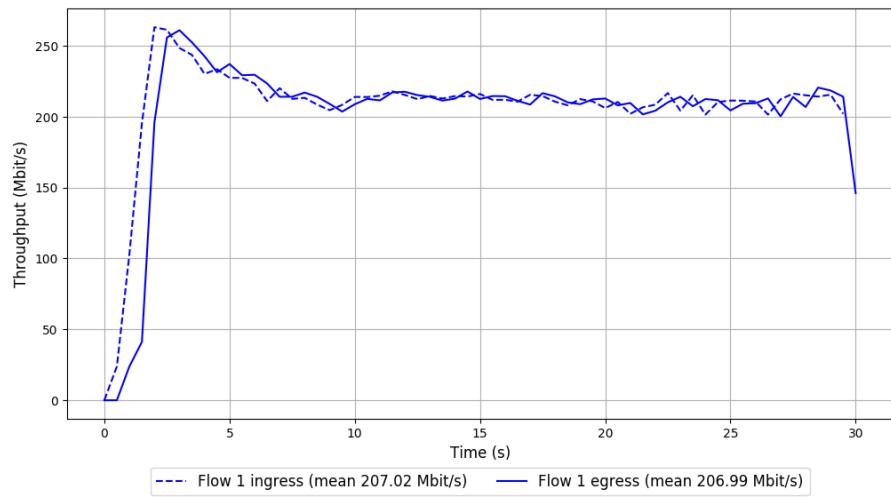


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-11-24 12:28:33
End at: 2019-11-24 12:29:03
Local clock offset: -0.091 ms
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2019-11-24 14:27:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.99 Mbit/s
95th percentile per-packet one-way delay: 132.151 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 206.99 Mbit/s
95th percentile per-packet one-way delay: 132.151 ms
Loss rate: 0.90%
```

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

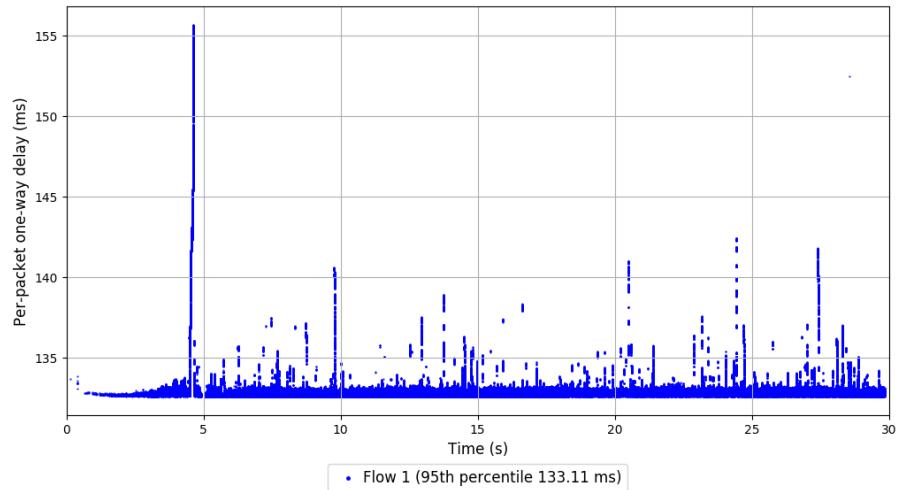
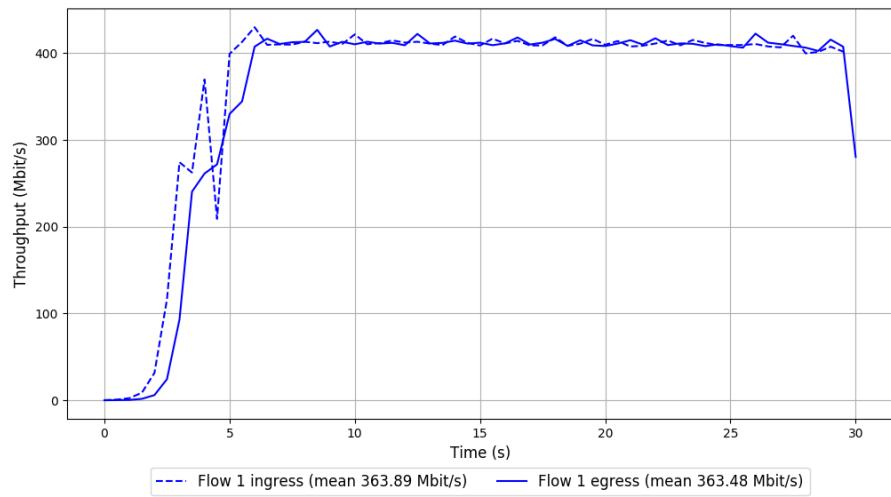


Run 1: Statistics of TCP Vegas

```
Start at: 2019-11-24 10:18:17
End at: 2019-11-24 10:18:47
Local clock offset: -0.021 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-11-24 14:27:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 363.48 Mbit/s
95th percentile per-packet one-way delay: 133.107 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 363.48 Mbit/s
95th percentile per-packet one-way delay: 133.107 ms
Loss rate: 1.00%
```

Run 1: Report of TCP Vegas — Data Link

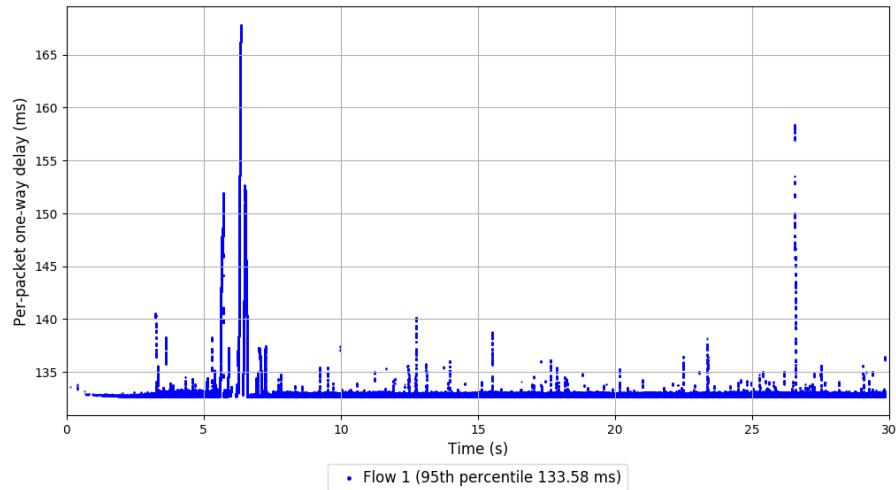
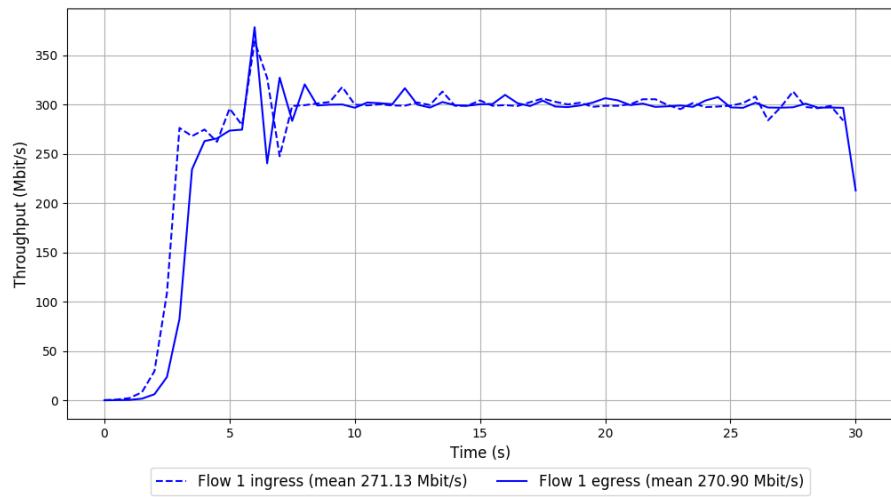


Run 2: Statistics of TCP Vegas

```
Start at: 2019-11-24 10:52:33
End at: 2019-11-24 10:53:03
Local clock offset: 0.053 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-11-24 14:27:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 270.90 Mbit/s
95th percentile per-packet one-way delay: 133.580 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 270.90 Mbit/s
95th percentile per-packet one-way delay: 133.580 ms
Loss rate: 0.97%
```

Run 2: Report of TCP Vegas — Data Link

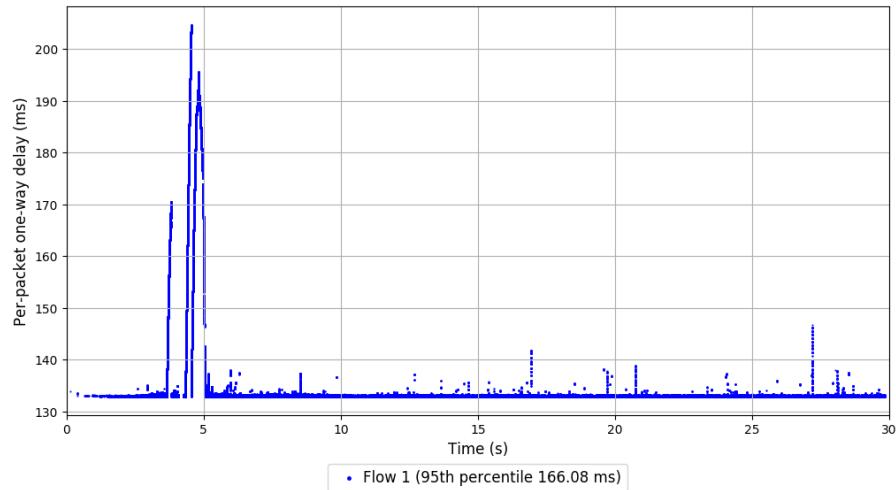
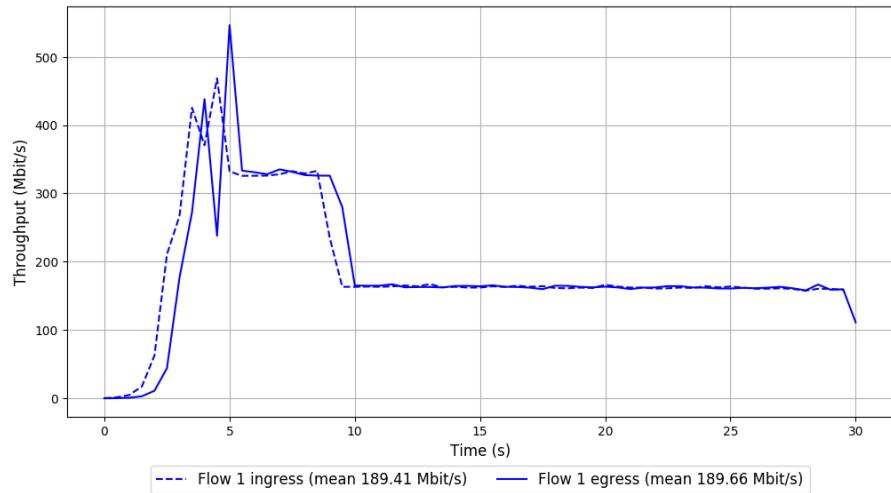


Run 3: Statistics of TCP Vegas

```
Start at: 2019-11-24 11:28:05
End at: 2019-11-24 11:28:35
Local clock offset: 0.032 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-11-24 14:27:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.66 Mbit/s
95th percentile per-packet one-way delay: 166.078 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 189.66 Mbit/s
95th percentile per-packet one-way delay: 166.078 ms
Loss rate: 0.75%
```

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

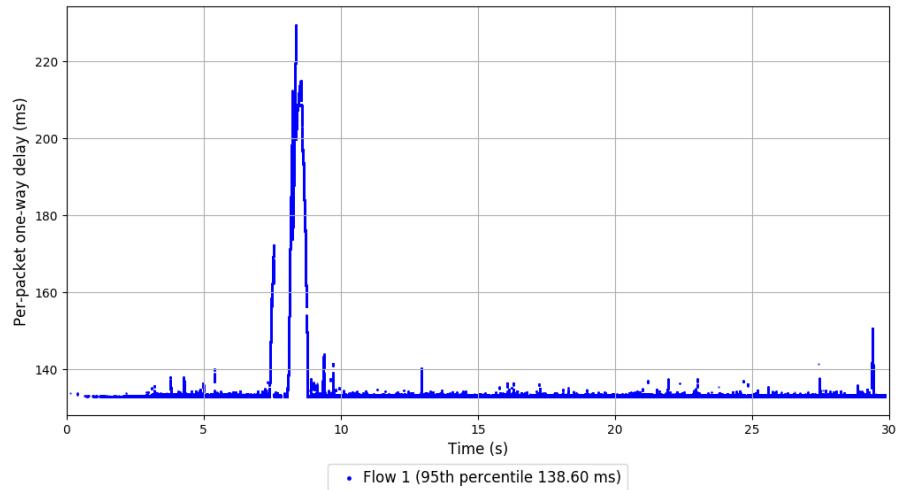
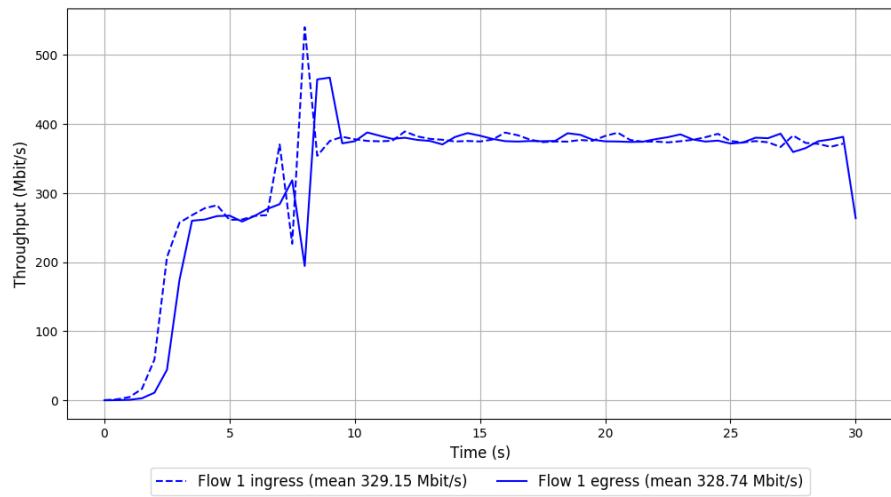


Run 4: Statistics of TCP Vegas

```
Start at: 2019-11-24 12:03:30
End at: 2019-11-24 12:04:00
Local clock offset: -0.077 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-11-24 14:31:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.74 Mbit/s
95th percentile per-packet one-way delay: 138.601 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 328.74 Mbit/s
95th percentile per-packet one-way delay: 138.601 ms
Loss rate: 1.01%
```

Run 4: Report of TCP Vegas — Data Link

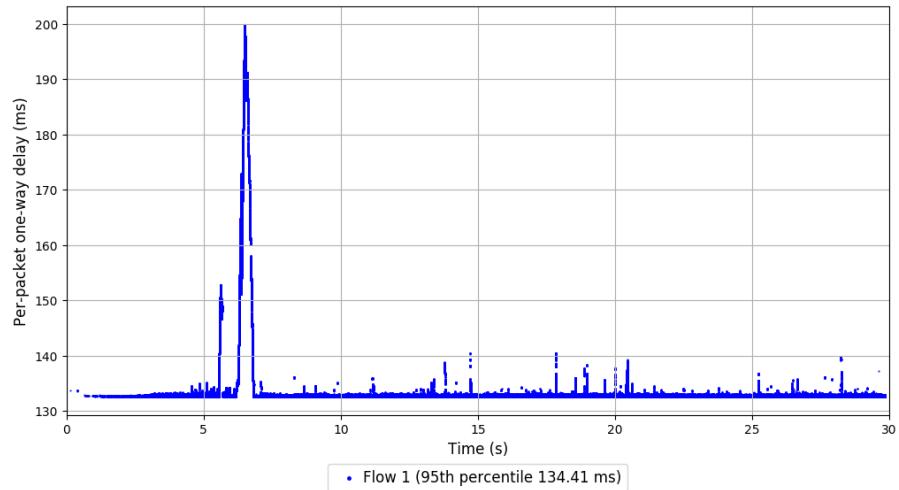
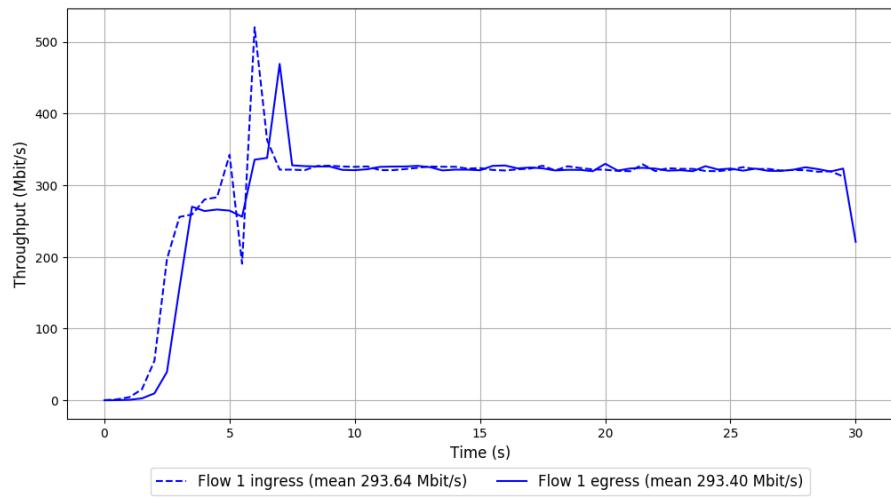


Run 5: Statistics of TCP Vegas

```
Start at: 2019-11-24 12:39:17
End at: 2019-11-24 12:39:47
Local clock offset: -0.133 ms
Remote clock offset: -0.281 ms

# Below is generated by plot.py at 2019-11-24 14:31:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.40 Mbit/s
95th percentile per-packet one-way delay: 134.406 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 293.40 Mbit/s
95th percentile per-packet one-way delay: 134.406 ms
Loss rate: 0.97%
```

Run 5: Report of TCP Vegas — Data Link

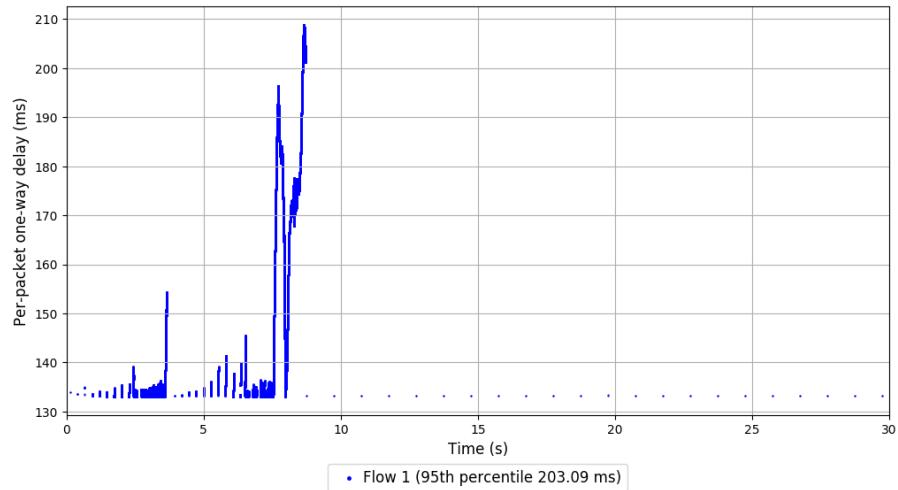
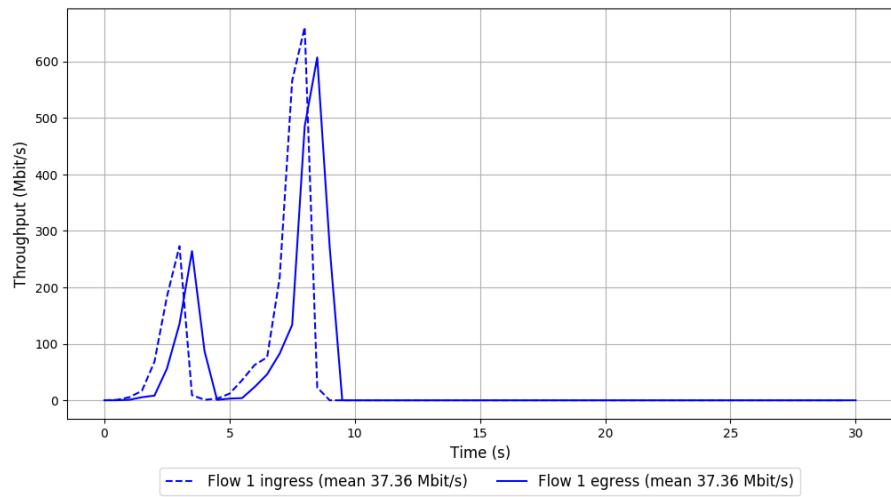


Run 1: Statistics of Verus

```
Start at: 2019-11-24 10:12:27
End at: 2019-11-24 10:12:57
Local clock offset: 0.303 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2019-11-24 14:31:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.36 Mbit/s
95th percentile per-packet one-way delay: 203.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.36 Mbit/s
95th percentile per-packet one-way delay: 203.091 ms
Loss rate: 0.00%
```

Run 1: Report of Verus — Data Link

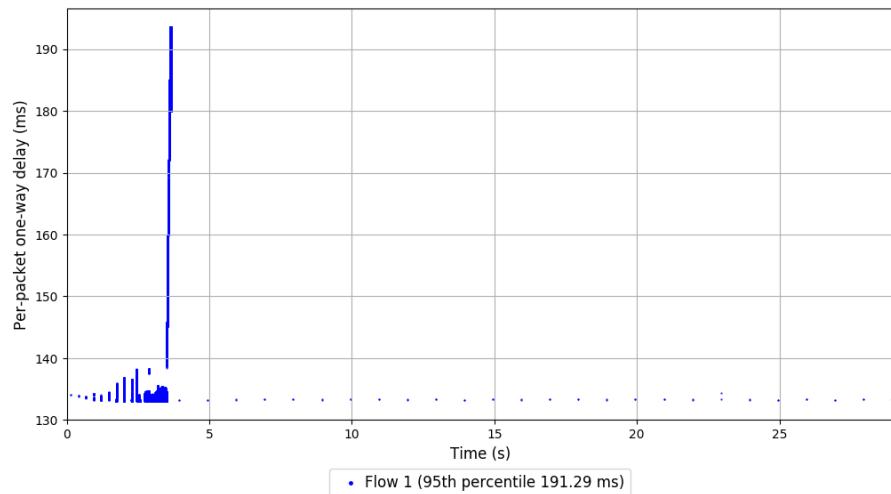
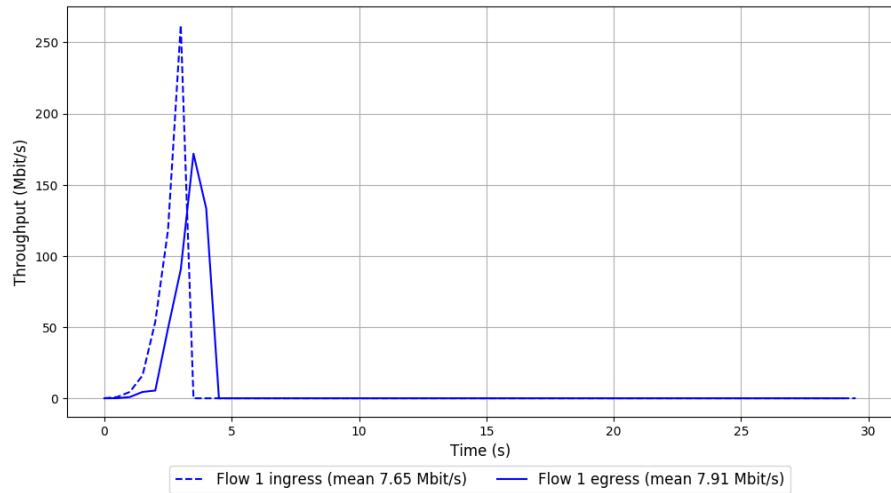


Run 2: Statistics of Verus

```
Start at: 2019-11-24 10:47:50
End at: 2019-11-24 10:48:20
Local clock offset: 0.387 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-11-24 14:31:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 191.295 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 191.295 ms
Loss rate: 0.01%
```

## Run 2: Report of Verus — Data Link

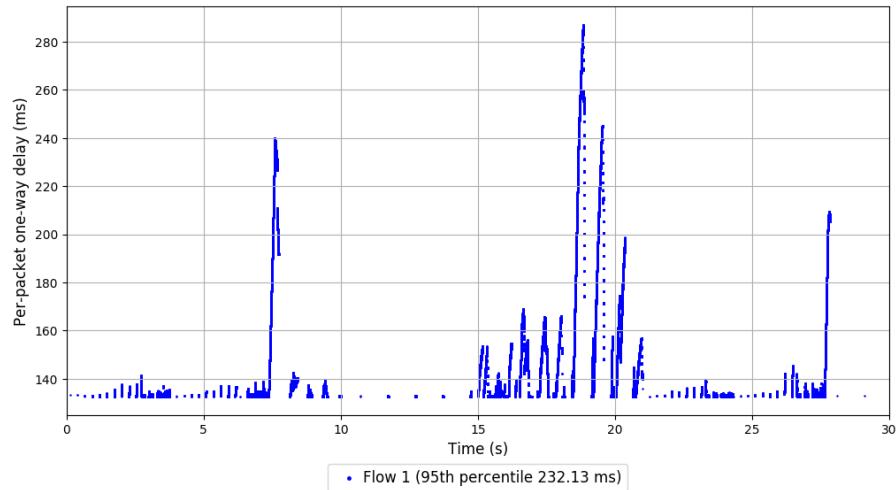
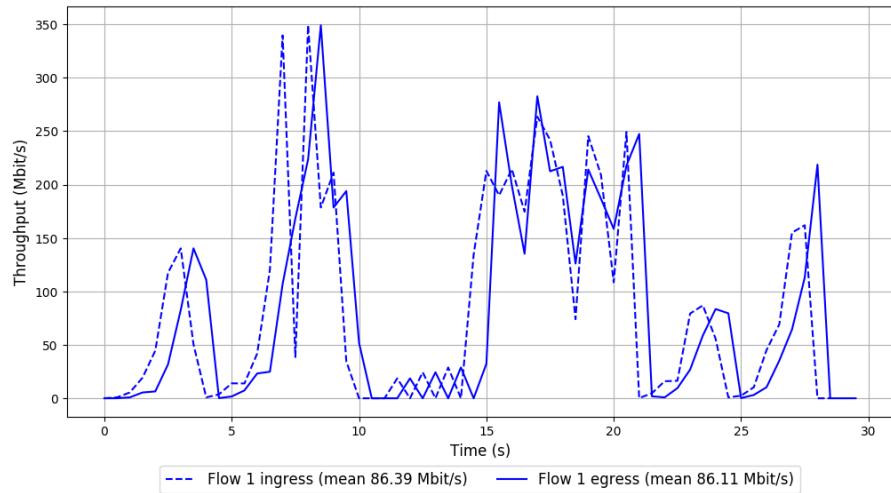


Run 3: Statistics of Verus

```
Start at: 2019-11-24 11:22:41
End at: 2019-11-24 11:23:11
Local clock offset: 0.031 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-11-24 14:31:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.11 Mbit/s
95th percentile per-packet one-way delay: 232.134 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 86.11 Mbit/s
95th percentile per-packet one-way delay: 232.134 ms
Loss rate: 0.33%
```

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

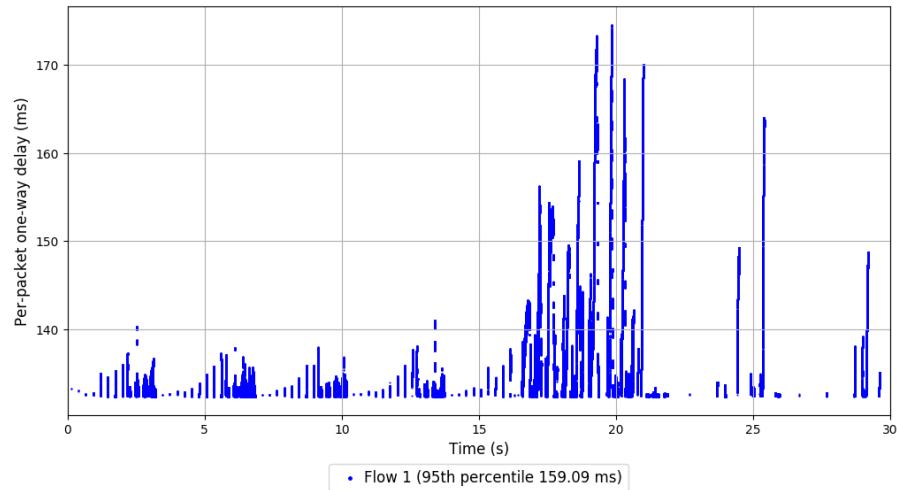
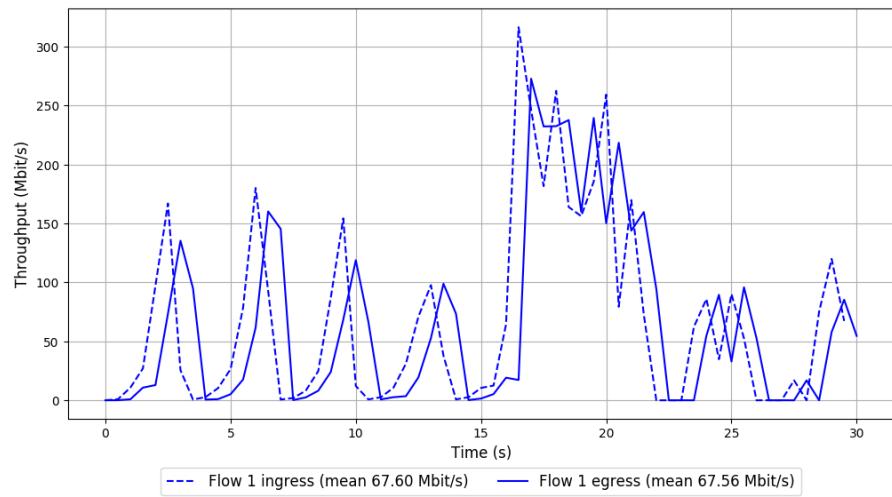


Run 4: Statistics of Verus

```
Start at: 2019-11-24 11:57:40
End at: 2019-11-24 11:58:10
Local clock offset: 0.26 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-11-24 14:31:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.56 Mbit/s
95th percentile per-packet one-way delay: 159.085 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 67.56 Mbit/s
95th percentile per-packet one-way delay: 159.085 ms
Loss rate: 1.59%
```

## Run 4: Report of Verus — Data Link

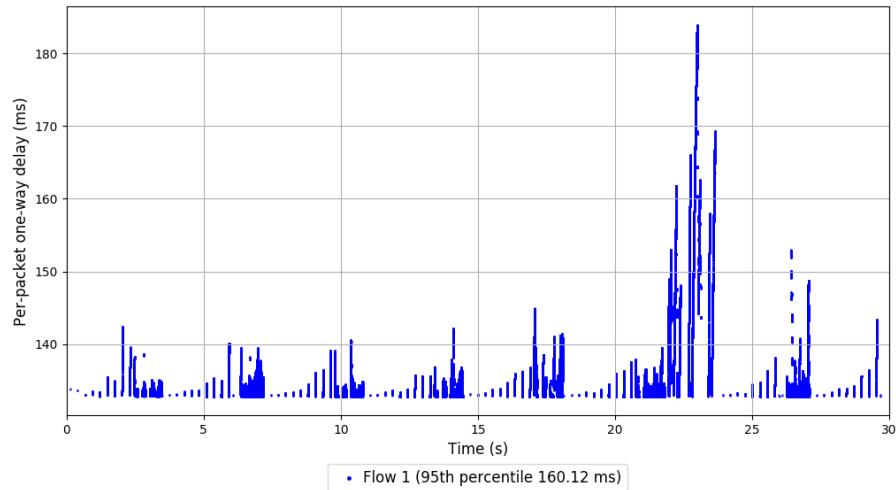
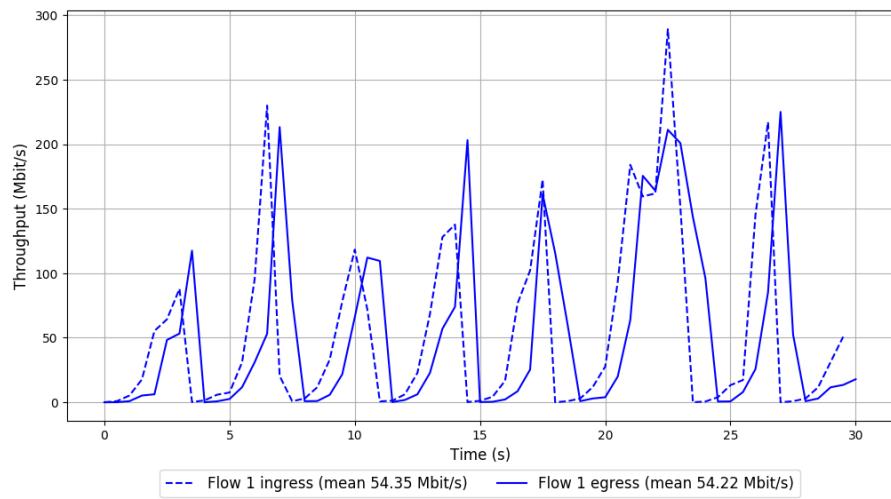


Run 5: Statistics of Verus

```
Start at: 2019-11-24 12:33:29
End at: 2019-11-24 12:33:59
Local clock offset: -0.075 ms
Remote clock offset: -0.257 ms

# Below is generated by plot.py at 2019-11-24 14:31:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.22 Mbit/s
95th percentile per-packet one-way delay: 160.124 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 54.22 Mbit/s
95th percentile per-packet one-way delay: 160.124 ms
Loss rate: 1.56%
```

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

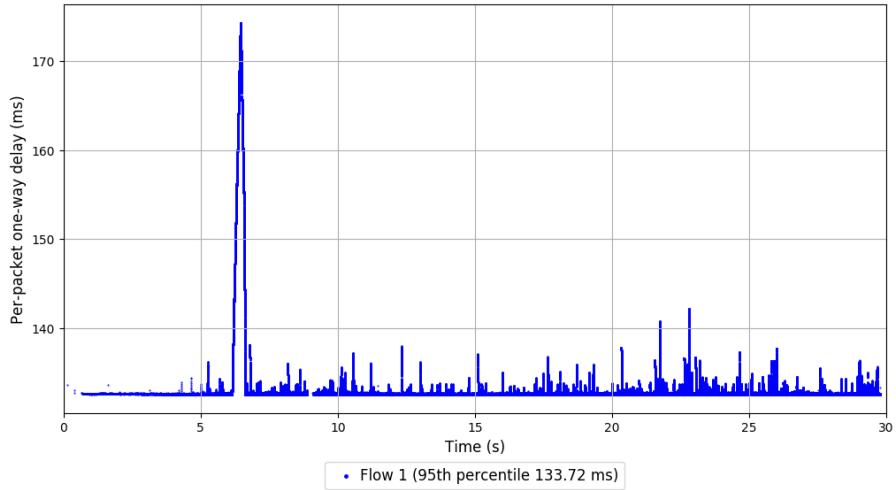
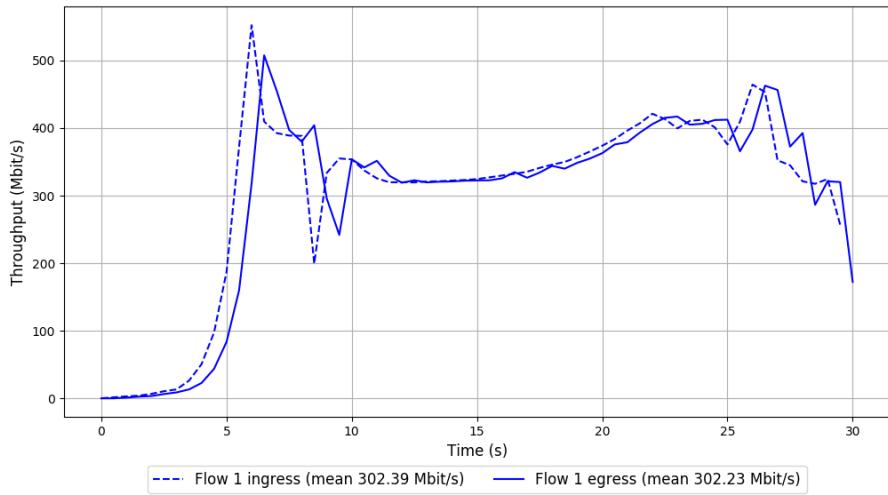


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-11-24 09:57:50
End at: 2019-11-24 09:58:20
Local clock offset: -0.108 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-11-24 14:32:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 302.23 Mbit/s
95th percentile per-packet one-way delay: 133.716 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 302.23 Mbit/s
95th percentile per-packet one-way delay: 133.716 ms
Loss rate: 0.94%
```

Run 1: Report of PCC-Vivace — Data Link

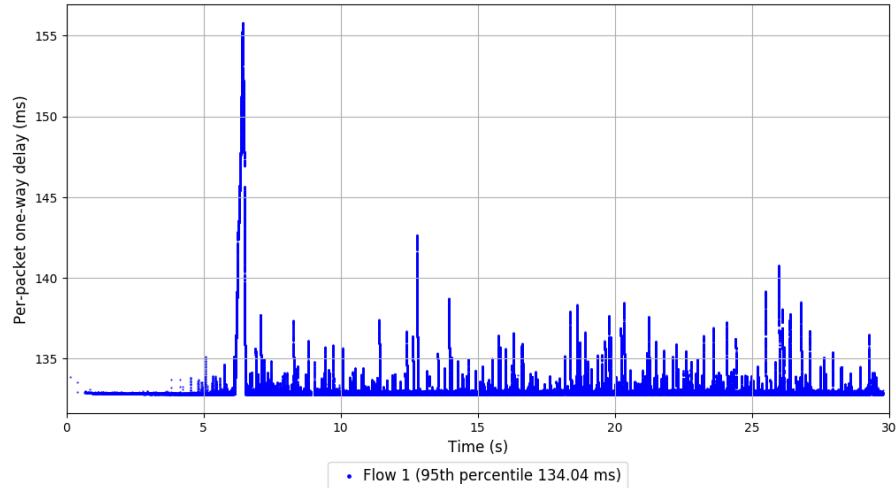
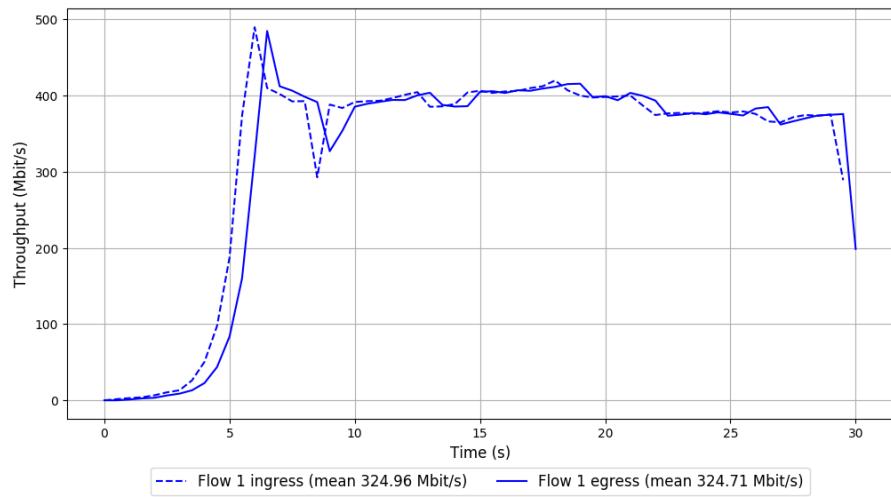


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-11-24 10:33:06
End at: 2019-11-24 10:33:36
Local clock offset: -0.012 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-11-24 14:32:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.71 Mbit/s
95th percentile per-packet one-way delay: 134.040 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 324.71 Mbit/s
95th percentile per-packet one-way delay: 134.040 ms
Loss rate: 0.97%
```

Run 2: Report of PCC-Vivace — Data Link

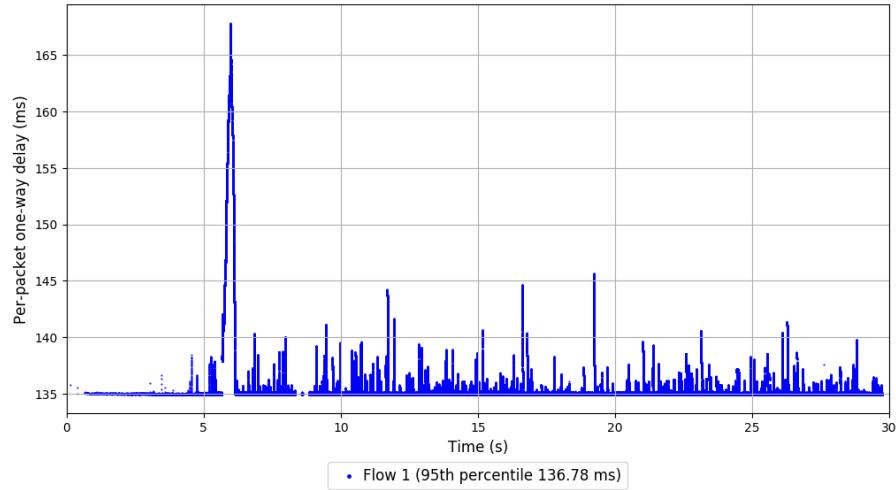
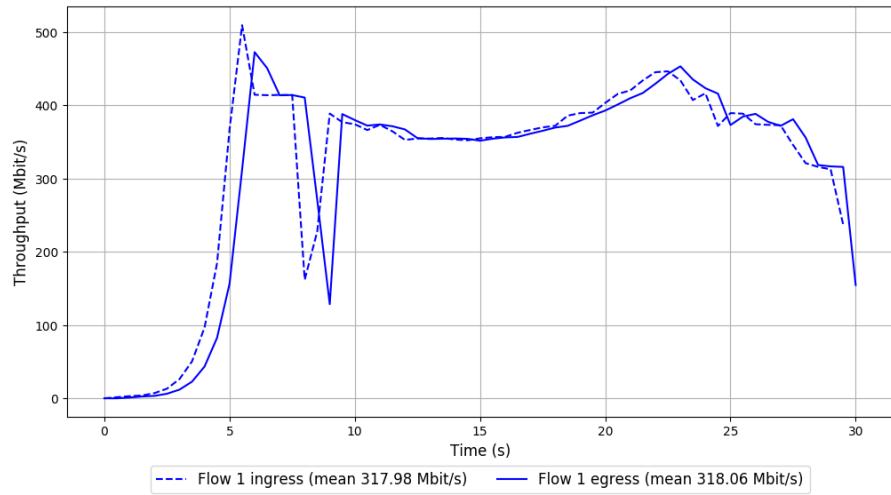


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-11-24 11:07:31
End at: 2019-11-24 11:08:01
Local clock offset: 0.032 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-11-24 14:32:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 318.06 Mbit/s
95th percentile per-packet one-way delay: 136.780 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 318.06 Mbit/s
95th percentile per-packet one-way delay: 136.780 ms
Loss rate: 0.87%
```

Run 3: Report of PCC-Vivace — Data Link

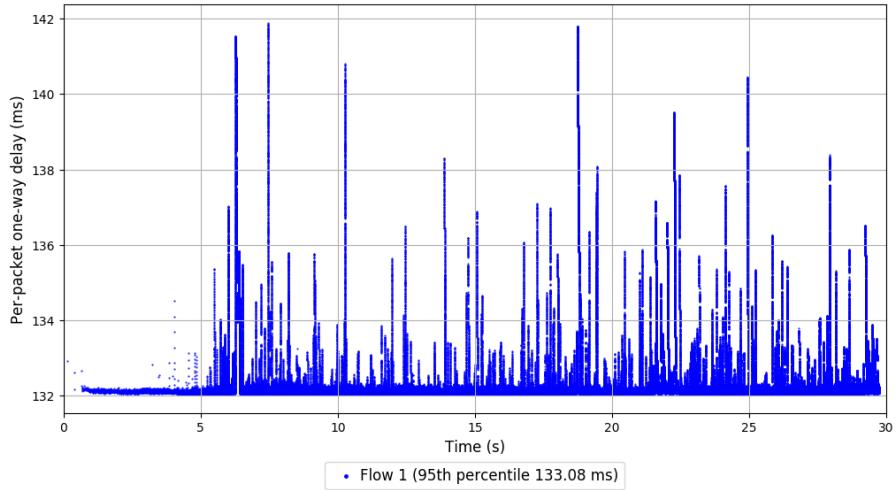
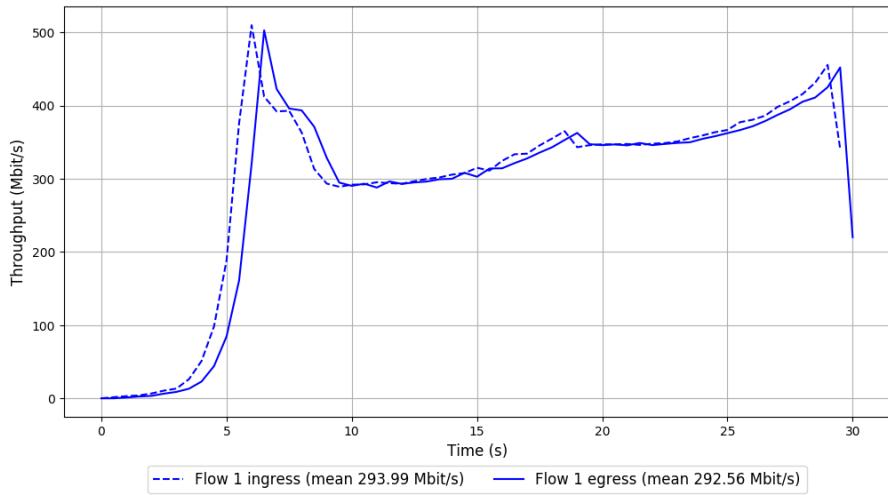


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-11-24 11:42:44
End at: 2019-11-24 11:43:14
Local clock offset: 0.009 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-11-24 14:33:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.56 Mbit/s
95th percentile per-packet one-way delay: 133.076 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 292.56 Mbit/s
95th percentile per-packet one-way delay: 133.076 ms
Loss rate: 1.38%
```

Run 4: Report of PCC-Vivace — Data Link

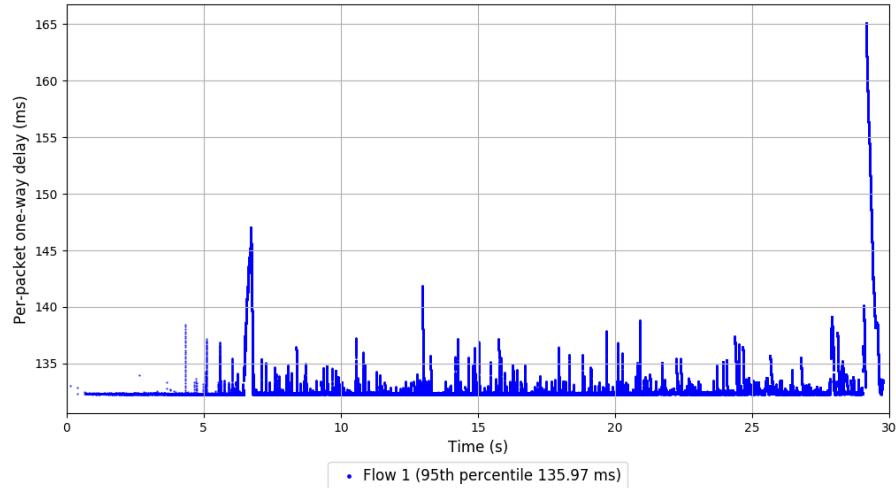
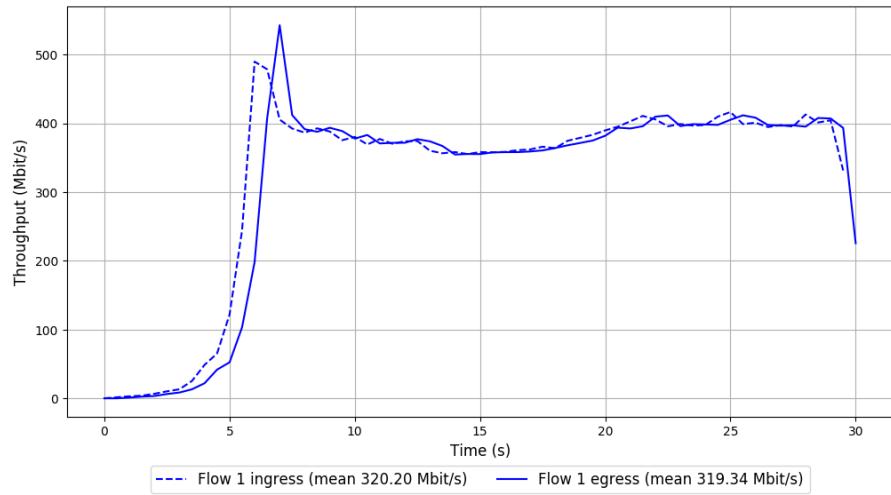


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-11-24 12:18:50
End at: 2019-11-24 12:19:20
Local clock offset: -0.105 ms
Remote clock offset: 0.246 ms

# Below is generated by plot.py at 2019-11-24 14:33:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.34 Mbit/s
95th percentile per-packet one-way delay: 135.966 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 319.34 Mbit/s
95th percentile per-packet one-way delay: 135.966 ms
Loss rate: 1.16%
```

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

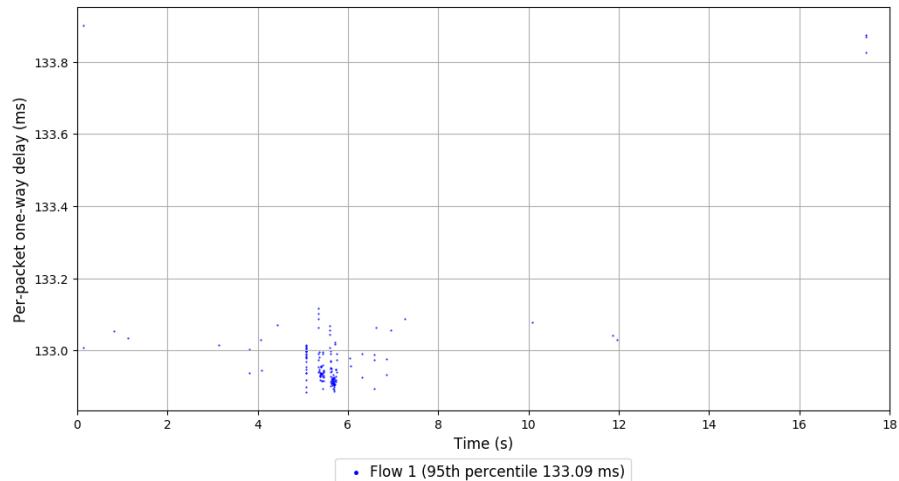
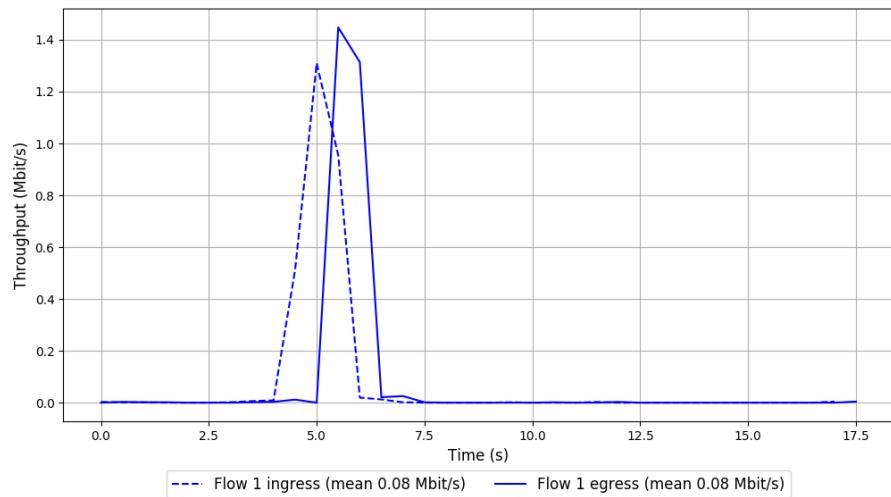
Start at: 2019-11-24 10:04:42

End at: 2019-11-24 10:05:12

Local clock offset: -0.055 ms

Remote clock offset: -0.084 ms

Run 1: Report of WebRTC media — Data Link

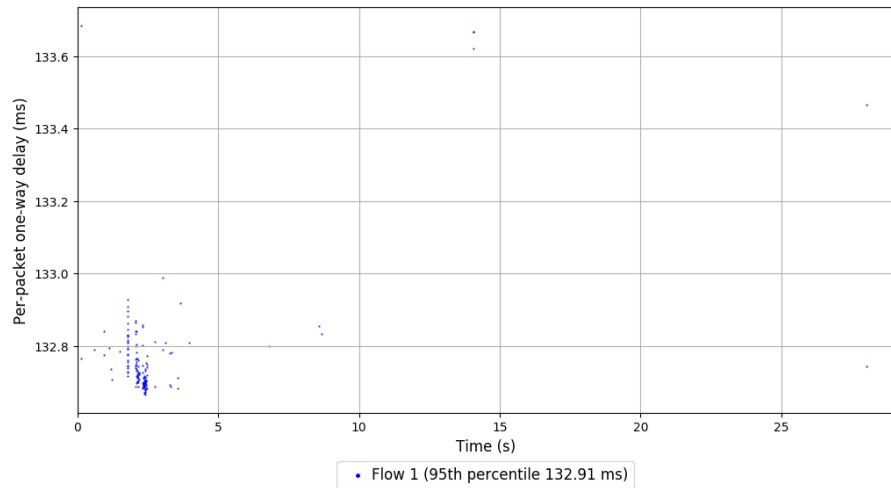
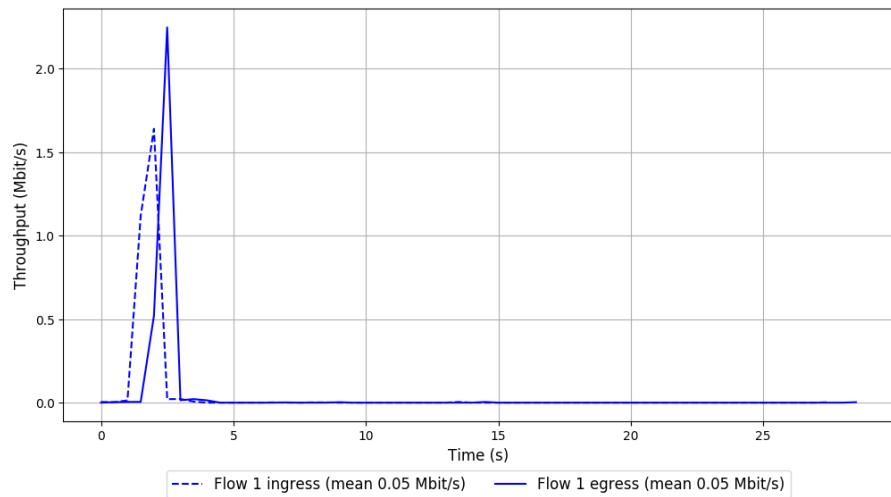


Run 2: Statistics of WebRTC media

```
Start at: 2019-11-24 10:40:04
End at: 2019-11-24 10:40:34
Local clock offset: -0.006 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-11-24 14:33:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.908 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.908 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

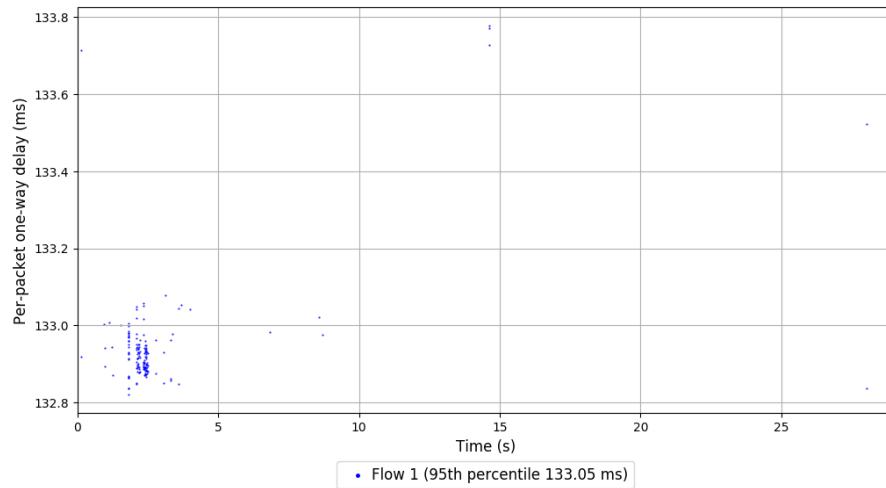
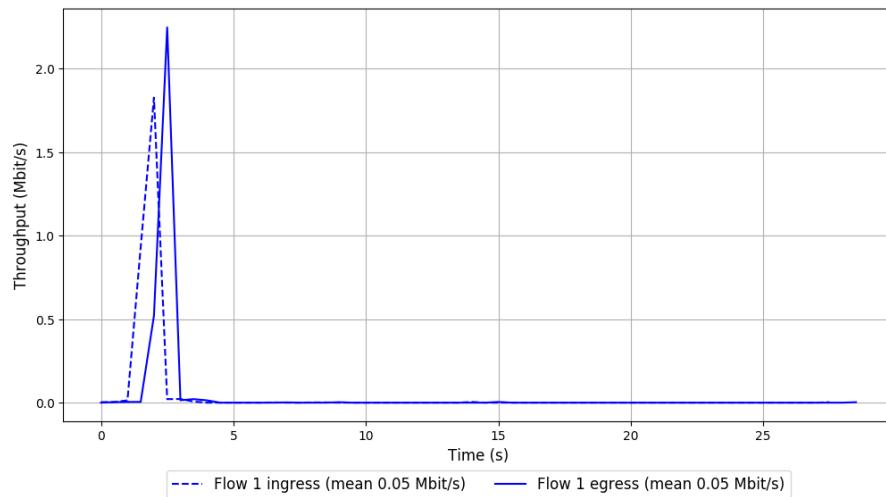


Run 3: Statistics of WebRTC media

```
Start at: 2019-11-24 11:14:56
End at: 2019-11-24 11:15:26
Local clock offset: 0.027 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-11-24 14:33:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.051 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.051 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

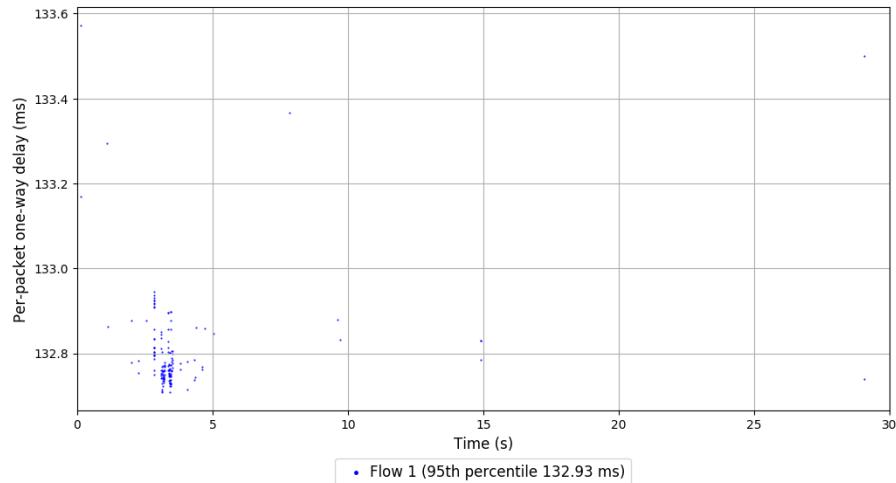
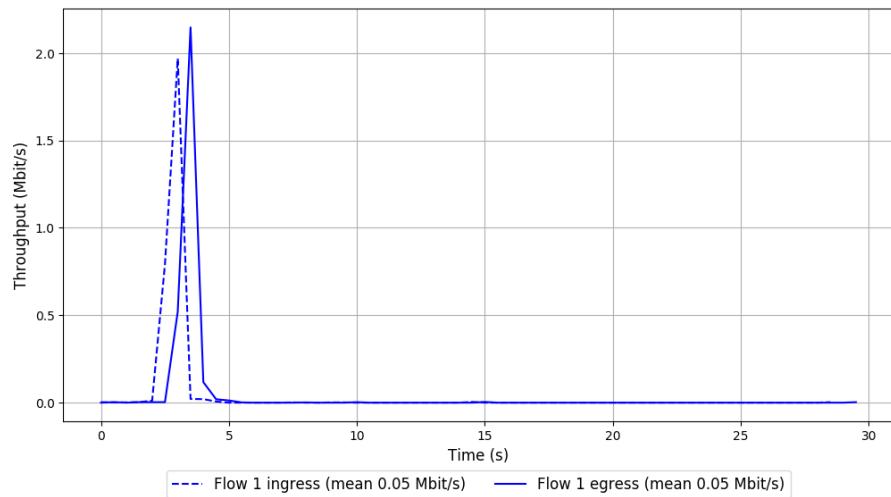


Run 4: Statistics of WebRTC media

```
Start at: 2019-11-24 11:49:59
End at: 2019-11-24 11:50:29
Local clock offset: 0.278 ms
Remote clock offset: 0.304 ms

# Below is generated by plot.py at 2019-11-24 14:33:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.925 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-11-24 12:25:48
End at: 2019-11-24 12:26:18
Local clock offset: 0.23 ms
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2019-11-24 14:33:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.589 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.589 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

