

## Pantheon Report

Generated at 2019-01-18 09:16:13 (UTC).  
Data path: GCE London on `ens4 (local)` → GCE Iowa on `ens4 (remote)`.  
Repeated the test of 21 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.

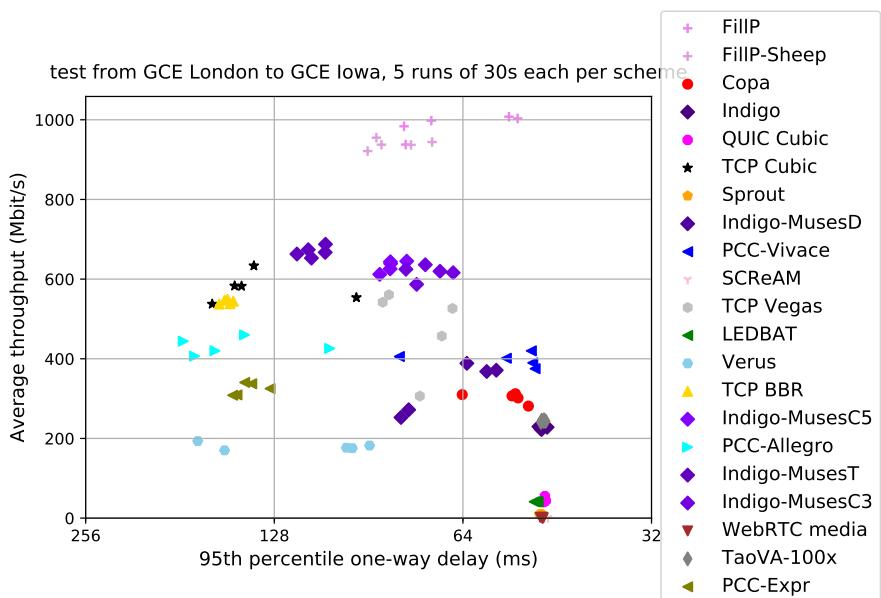
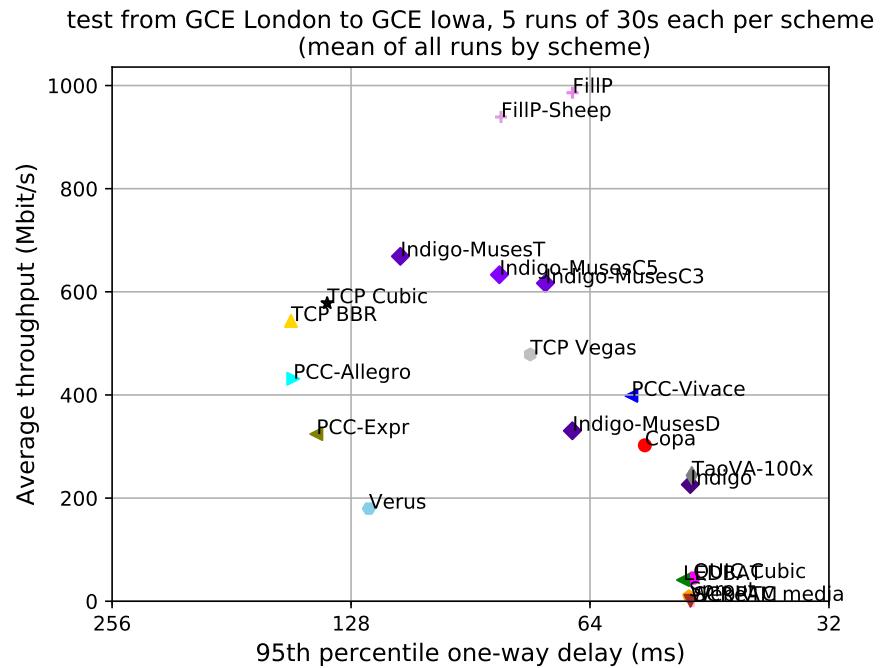
System info:

```
Linux 4.15.0-1026-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 @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefef166e1afe2170
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851



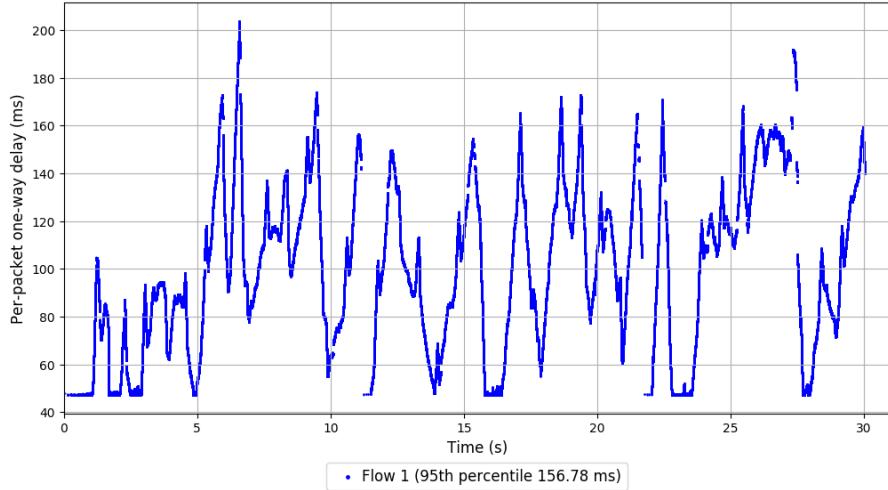
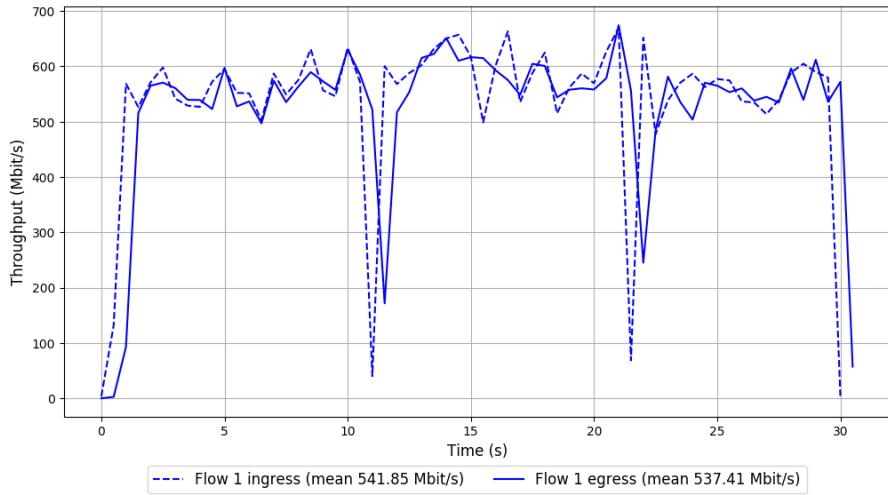
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	543.41	152.37	0.90
Copa	5	302.40	54.58	0.00
TCP Cubic	5	578.01	137.18	0.17
FillP	5	986.08	67.34	0.16
FillP-Sheep	5	939.03	82.85	0.07
Indigo	5	226.26	47.85	0.00
Indigo-MusesC3	5	616.69	72.85	0.03
Indigo-MusesC5	5	633.05	83.24	0.08
Indigo-MusesD	5	330.51	67.36	0.14
Indigo-MusesT	5	668.83	110.93	0.13
LEDBAT	5	41.17	48.87	0.00
PCC-Allegro	5	431.38	151.37	1.75
PCC-Expr	5	324.16	141.56	1.67
QUIC Cubic	5	45.09	47.43	0.00
SCReAM	5	0.22	47.42	0.00
Sprout	5	9.58	48.04	0.00
TaoVA-100x	5	243.77	47.64	0.02
TCP Vegas	5	478.47	76.12	0.03
Verus	5	179.63	121.55	0.54
PCC-Vivace	5	398.35	56.76	0.02
WebRTC media	5	0.85	47.81	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-18 04:29:07
End at: 2019-01-18 04:29:37
Local clock offset: -0.137 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-01-18 07:26:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 537.41 Mbit/s
95th percentile per-packet one-way delay: 156.779 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 537.41 Mbit/s
95th percentile per-packet one-way delay: 156.779 ms
Loss rate: 0.82%
```

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

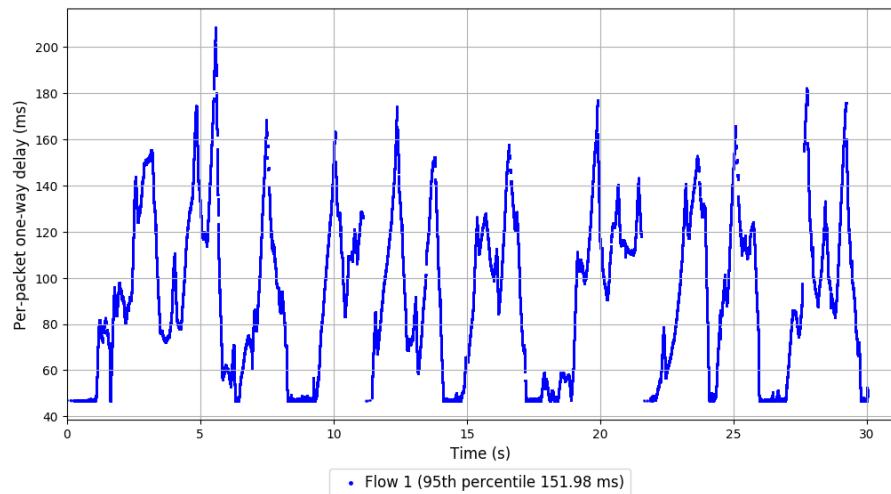
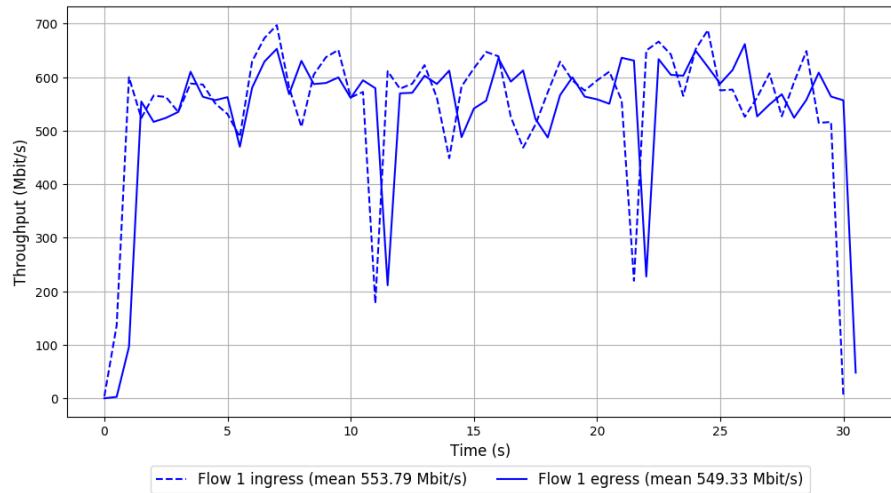


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-18 05:00:07
End at: 2019-01-18 05:00:37
Local clock offset: -0.052 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-01-18 07:26:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 549.33 Mbit/s
95th percentile per-packet one-way delay: 151.979 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 549.33 Mbit/s
95th percentile per-packet one-way delay: 151.979 ms
Loss rate: 0.80%
```

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

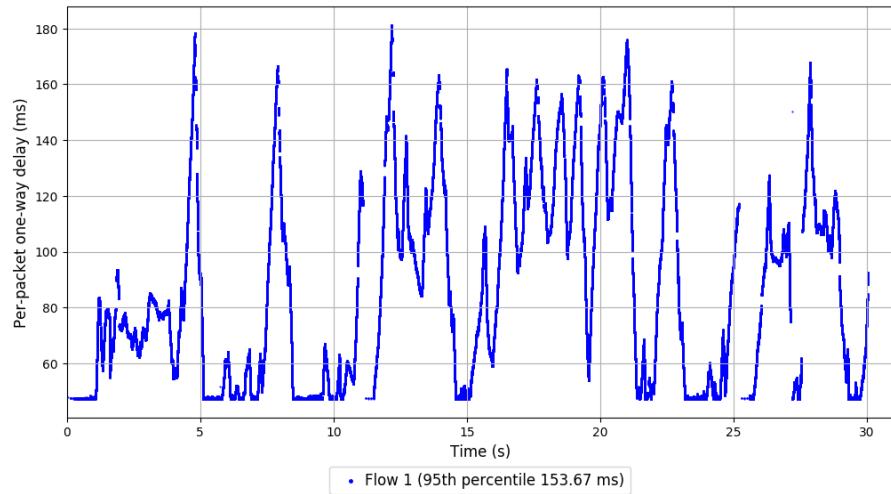
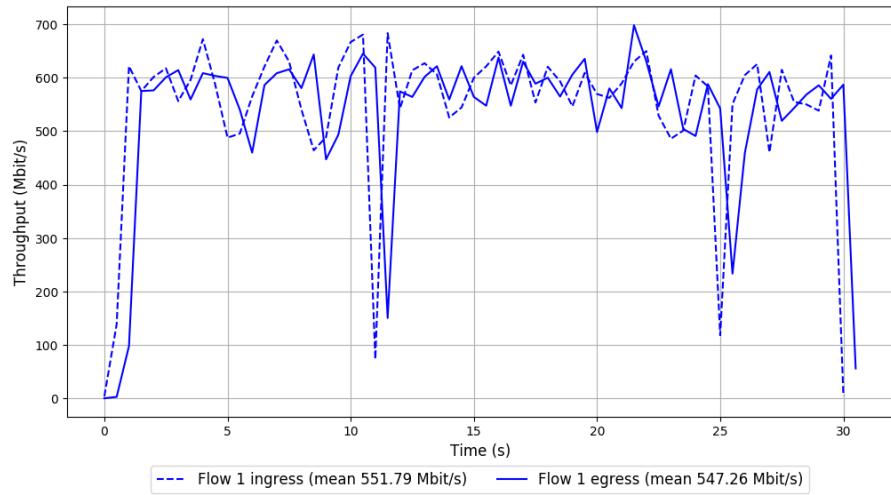


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-18 05:34:32
End at: 2019-01-18 05:35:02
Local clock offset: -0.034 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-01-18 07:26:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 547.26 Mbit/s
95th percentile per-packet one-way delay: 153.672 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 547.26 Mbit/s
95th percentile per-packet one-way delay: 153.672 ms
Loss rate: 0.82%
```

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

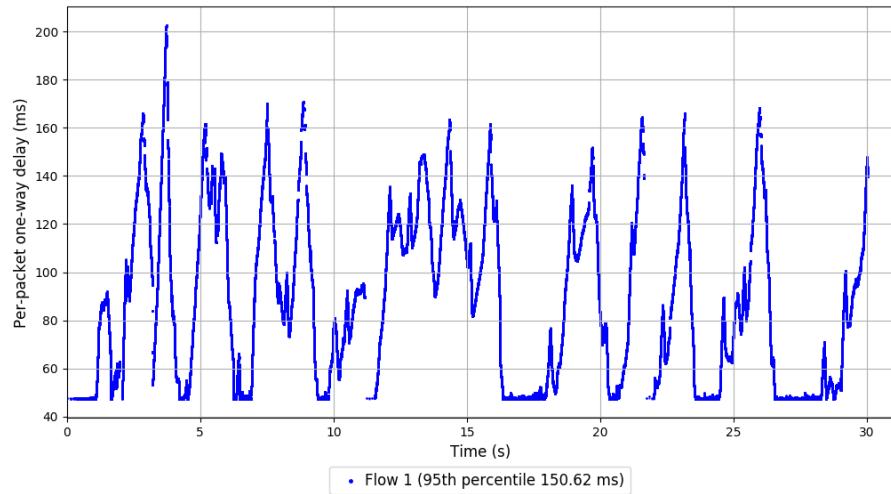
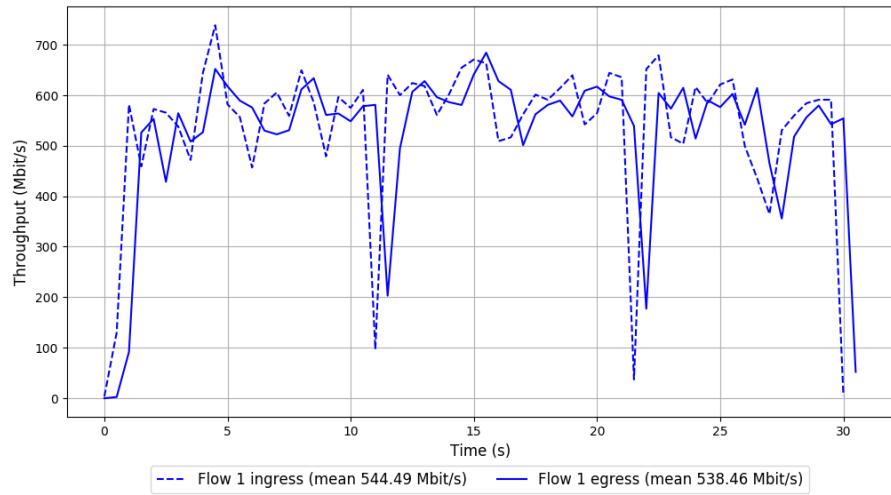


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-18 06:08:50
End at: 2019-01-18 06:09:20
Local clock offset: -0.012 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-01-18 07:26:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 538.46 Mbit/s
95th percentile per-packet one-way delay: 150.624 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 538.46 Mbit/s
95th percentile per-packet one-way delay: 150.624 ms
Loss rate: 1.11%
```

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

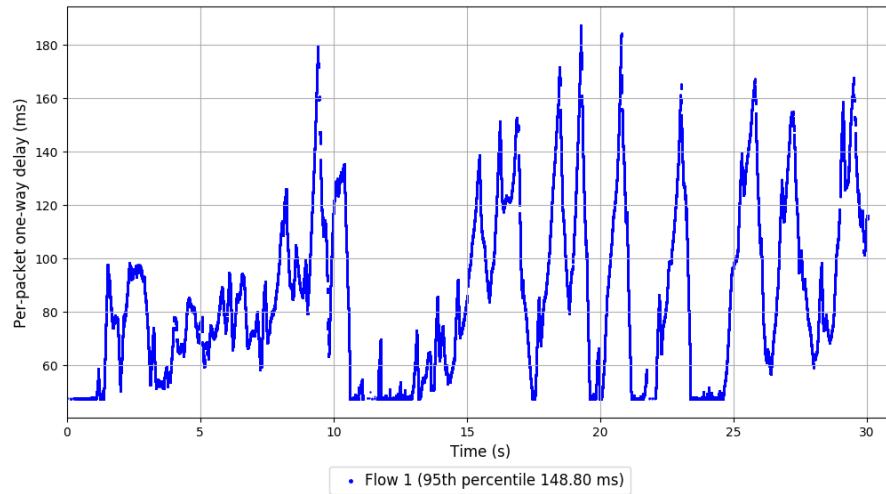
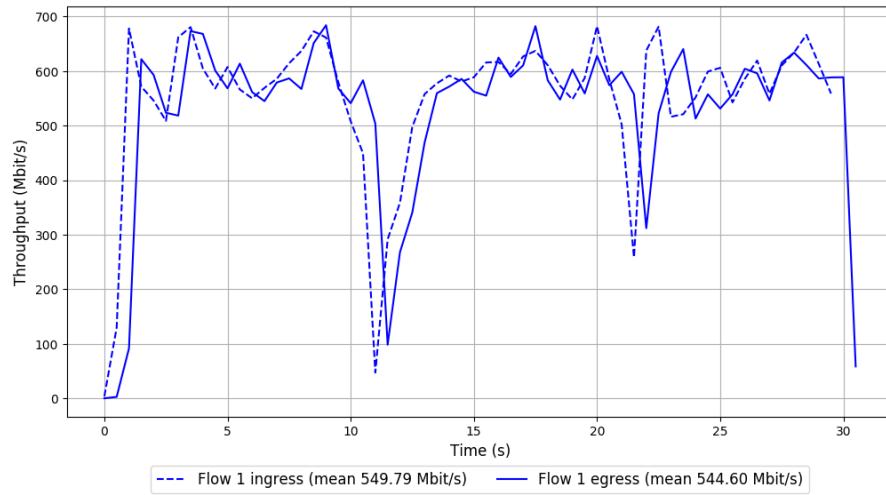


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-18 06:42:40
End at: 2019-01-18 06:43:10
Local clock offset: -0.027 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-01-18 07:26:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 544.60 Mbit/s
95th percentile per-packet one-way delay: 148.804 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 544.60 Mbit/s
95th percentile per-packet one-way delay: 148.804 ms
Loss rate: 0.94%
```

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

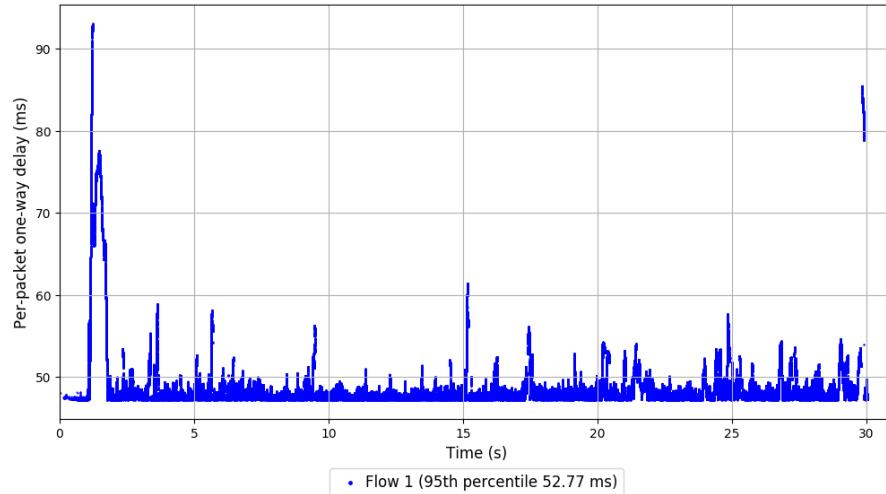
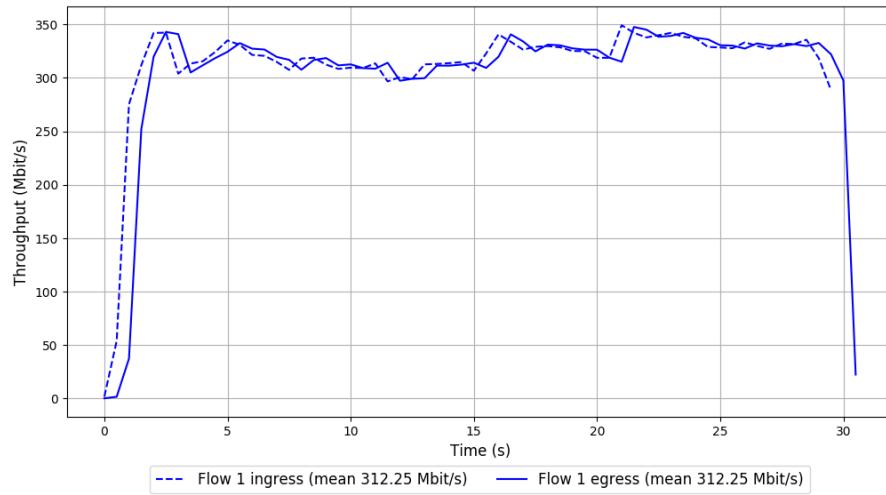


Run 1: Statistics of Copa

```
Start at: 2019-01-18 04:39:12
End at: 2019-01-18 04:39:42
Local clock offset: -0.069 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-01-18 07:27:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.25 Mbit/s
95th percentile per-packet one-way delay: 52.767 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 312.25 Mbit/s
95th percentile per-packet one-way delay: 52.767 ms
Loss rate: 0.00%
```

### Run 1: Report of Copa — Data Link

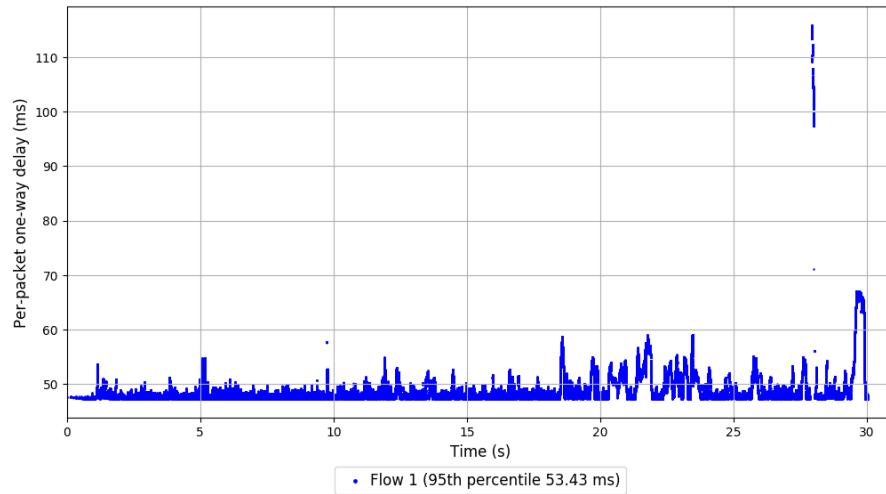
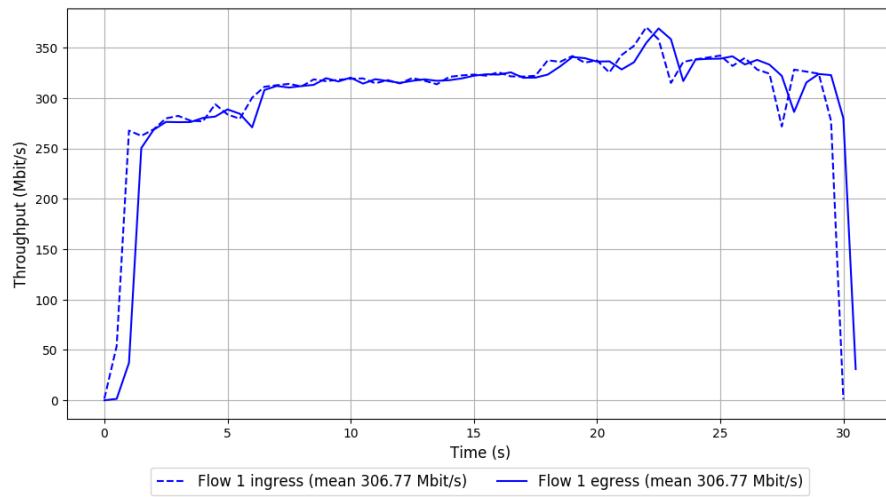


Run 2: Statistics of Copa

```
Start at: 2019-01-18 05:11:26
End at: 2019-01-18 05:11:56
Local clock offset: -0.066 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-01-18 07:27:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.77 Mbit/s
95th percentile per-packet one-way delay: 53.431 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 306.77 Mbit/s
95th percentile per-packet one-way delay: 53.431 ms
Loss rate: 0.00%
```

## Run 2: Report of Copa — Data Link

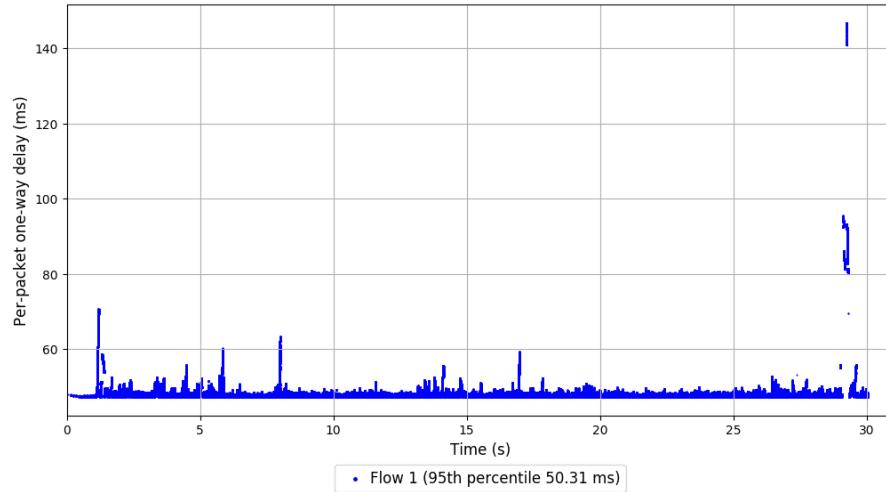
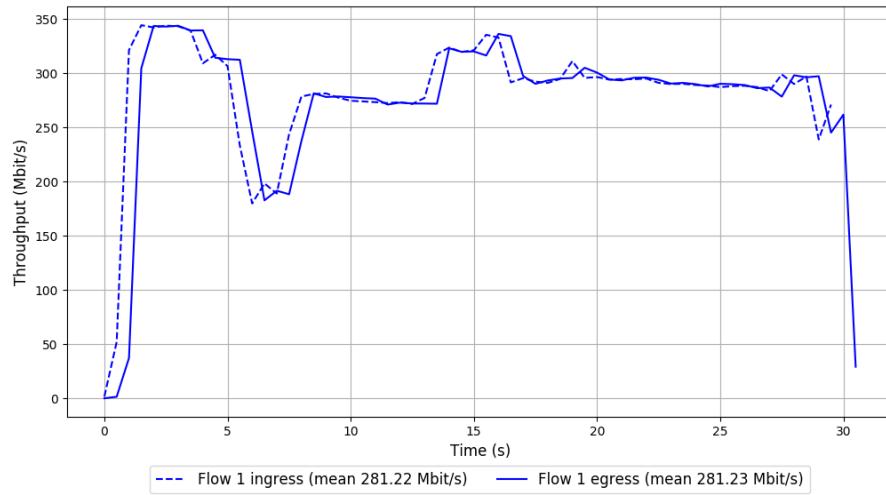


Run 3: Statistics of Copa

```
Start at: 2019-01-18 05:45:50
End at: 2019-01-18 05:46:20
Local clock offset: -0.033 ms
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2019-01-18 07:27:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 281.23 Mbit/s
95th percentile per-packet one-way delay: 50.310 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 281.23 Mbit/s
95th percentile per-packet one-way delay: 50.310 ms
Loss rate: 0.00%
```

### Run 3: Report of Copa — Data Link

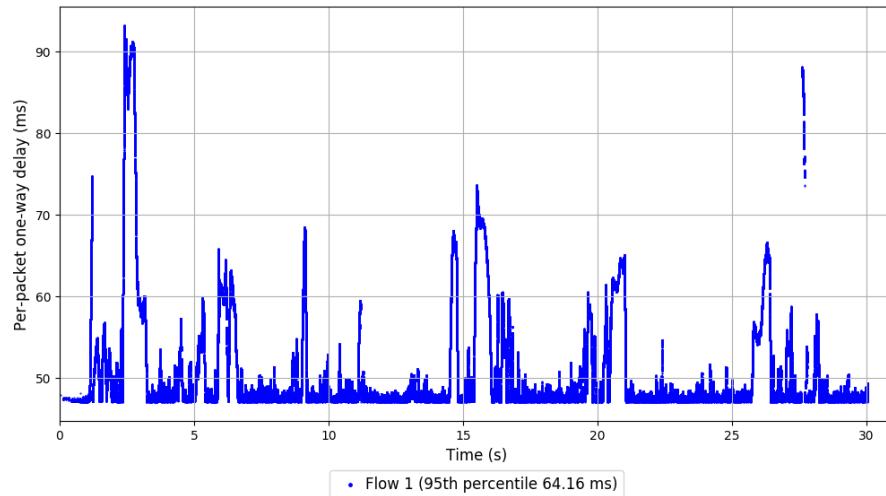
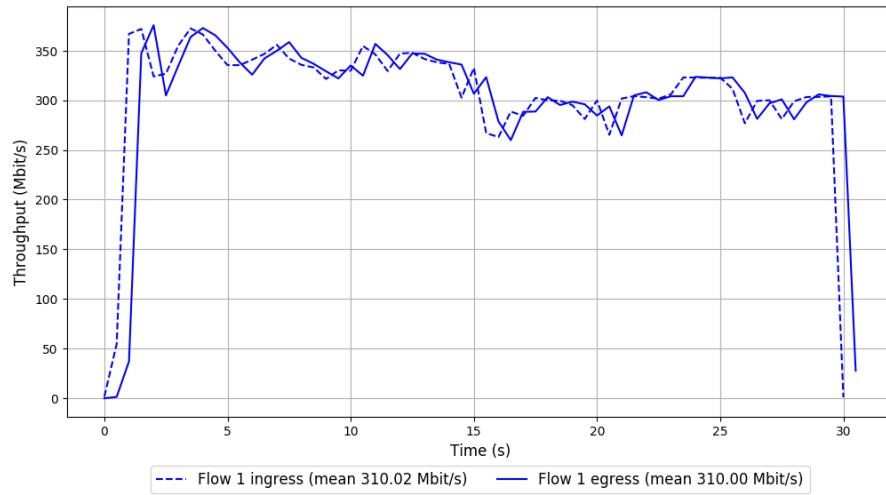


Run 4: Statistics of Copa

```
Start at: 2019-01-18 06:20:10
End at: 2019-01-18 06:20:40
Local clock offset: 0.003 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-01-18 07:37:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.00 Mbit/s
95th percentile per-packet one-way delay: 64.155 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 310.00 Mbit/s
95th percentile per-packet one-way delay: 64.155 ms
Loss rate: 0.01%
```

### Run 4: Report of Copa — Data Link

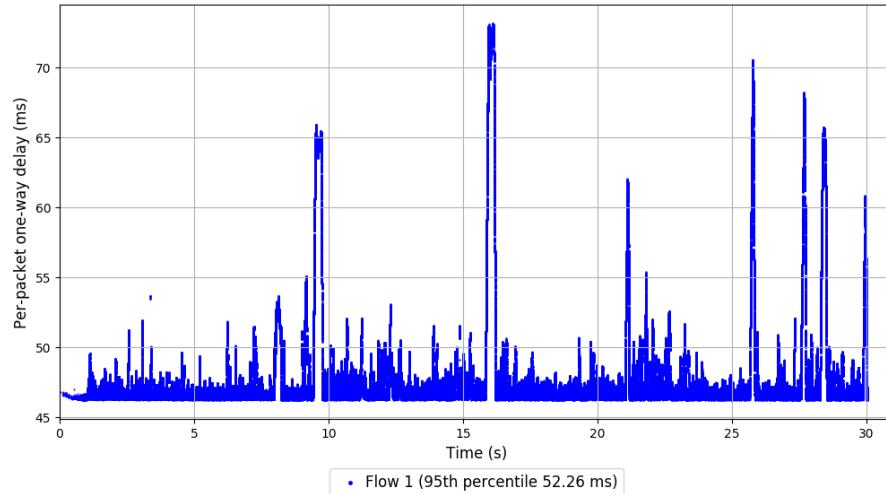
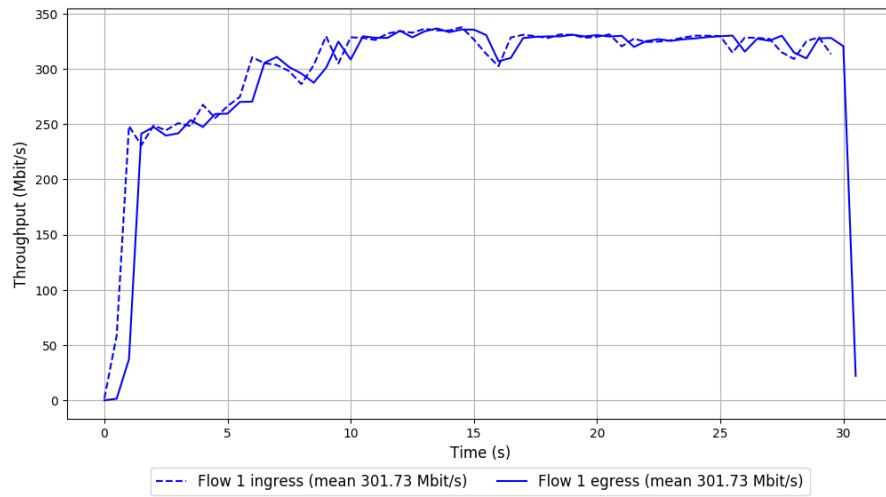


Run 5: Statistics of Copa

```
Start at: 2019-01-18 06:53:00
End at: 2019-01-18 06:53:30
Local clock offset: 0.112 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-01-18 07:37:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 301.73 Mbit/s
95th percentile per-packet one-way delay: 52.260 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 301.73 Mbit/s
95th percentile per-packet one-way delay: 52.260 ms
Loss rate: 0.00%
```

### Run 5: Report of Copa — Data Link

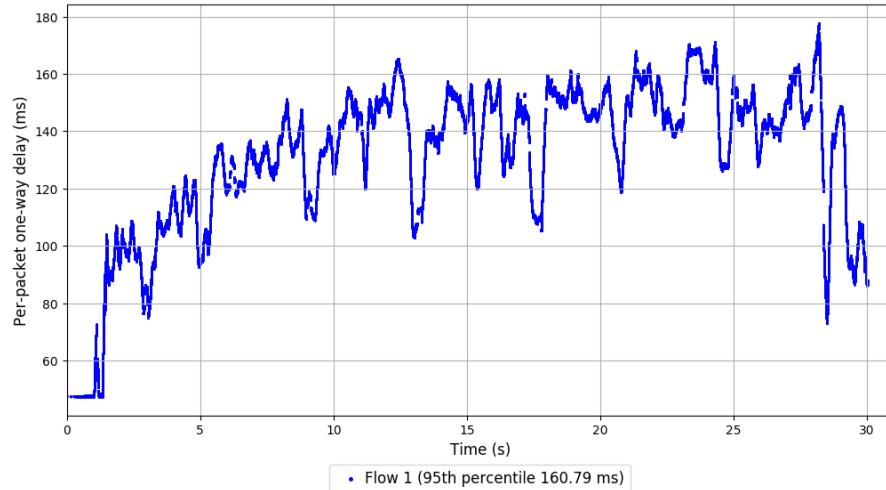
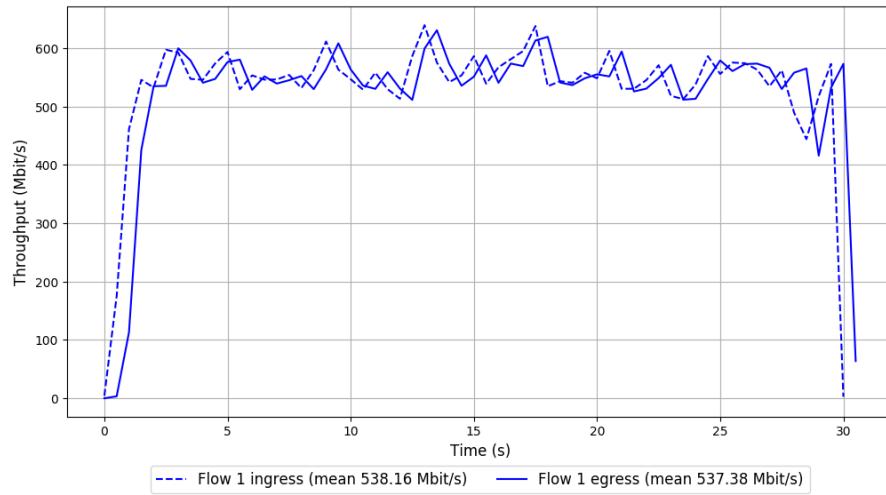


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-18 04:35:07
End at: 2019-01-18 04:35:38
Local clock offset: -0.118 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-01-18 07:37:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 537.38 Mbit/s
95th percentile per-packet one-way delay: 160.791 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 537.38 Mbit/s
95th percentile per-packet one-way delay: 160.791 ms
Loss rate: 0.14%
```

Run 1: Report of TCP Cubic — Data Link

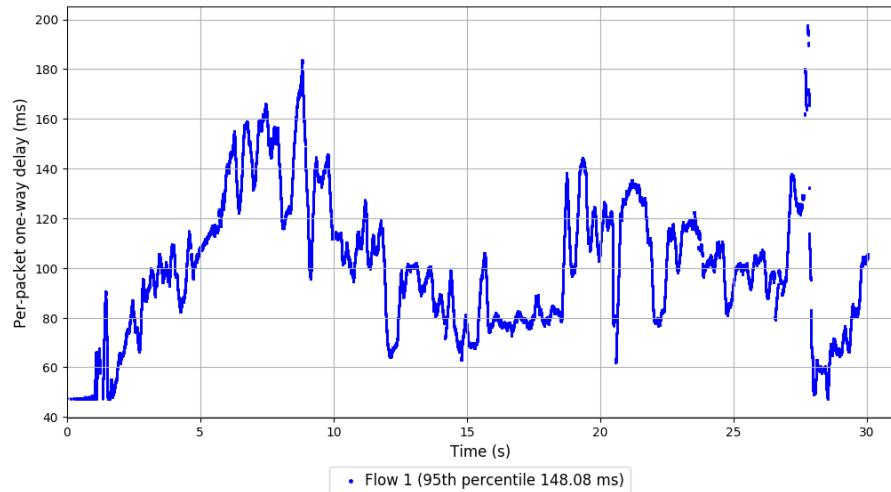
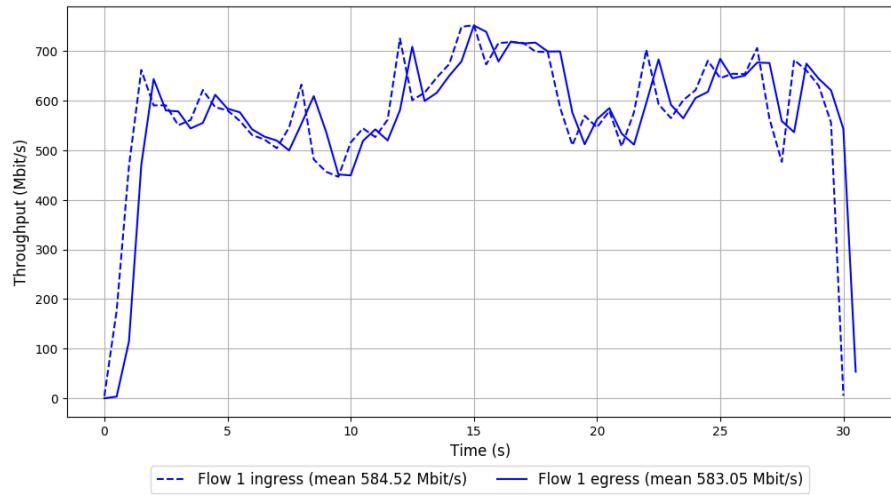


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-18 05:07:04
End at: 2019-01-18 05:07:34
Local clock offset: -0.05 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-01-18 07:37:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 583.05 Mbit/s
95th percentile per-packet one-way delay: 148.083 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 583.05 Mbit/s
95th percentile per-packet one-way delay: 148.083 ms
Loss rate: 0.25%
```

Run 2: Report of TCP Cubic — Data Link

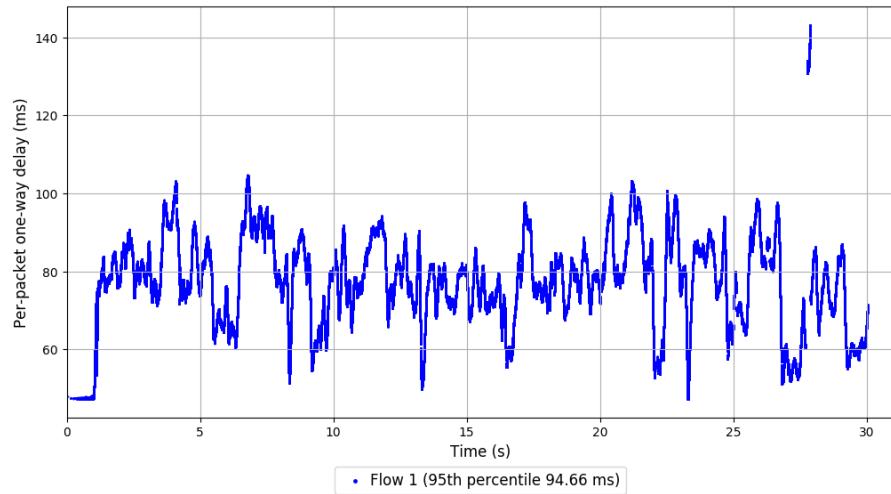
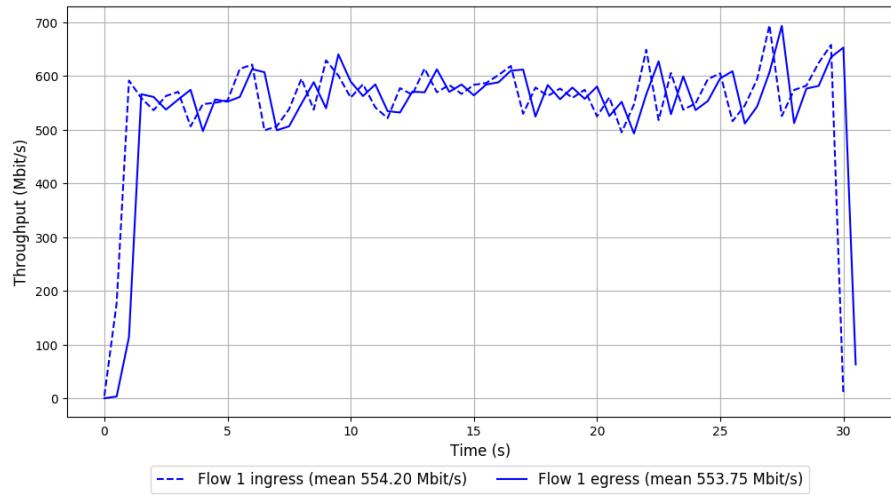


```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2019-01-18 05:41:23
End at: 2019-01-18 05:41:53
Local clock offset: -0.066 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-01-18 07:37:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 553.75 Mbit/s
95th percentile per-packet one-way delay: 94.663 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 553.75 Mbit/s
95th percentile per-packet one-way delay: 94.663 ms
Loss rate: 0.08%
```

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

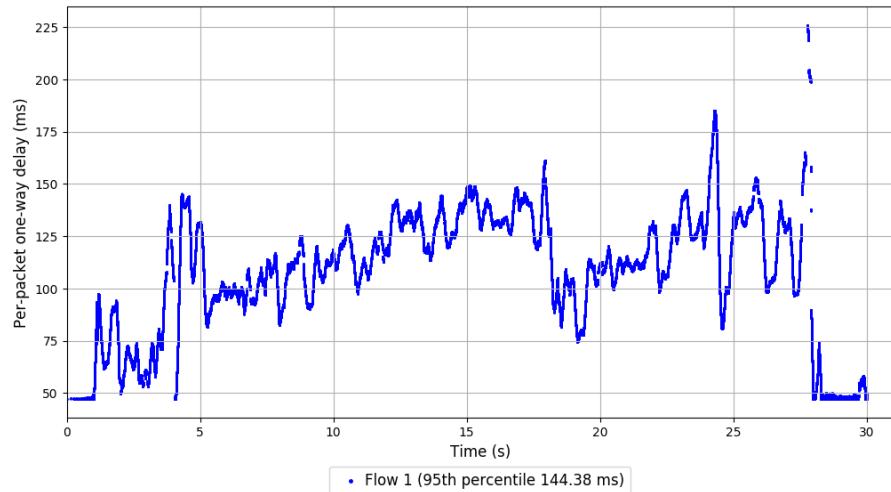
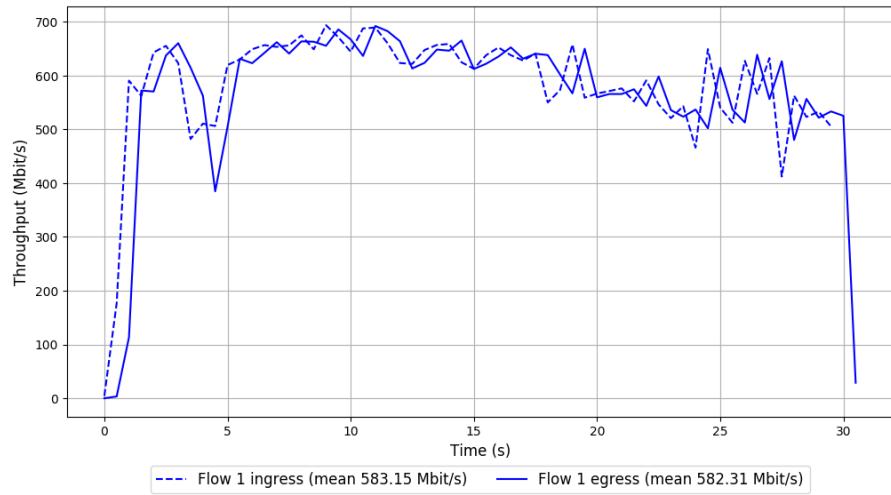


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-18 06:15:46
End at: 2019-01-18 06:16:16
Local clock offset: 0.135 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-01-18 07:37:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 582.31 Mbit/s
95th percentile per-packet one-way delay: 144.375 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 582.31 Mbit/s
95th percentile per-packet one-way delay: 144.375 ms
Loss rate: 0.14%
```

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

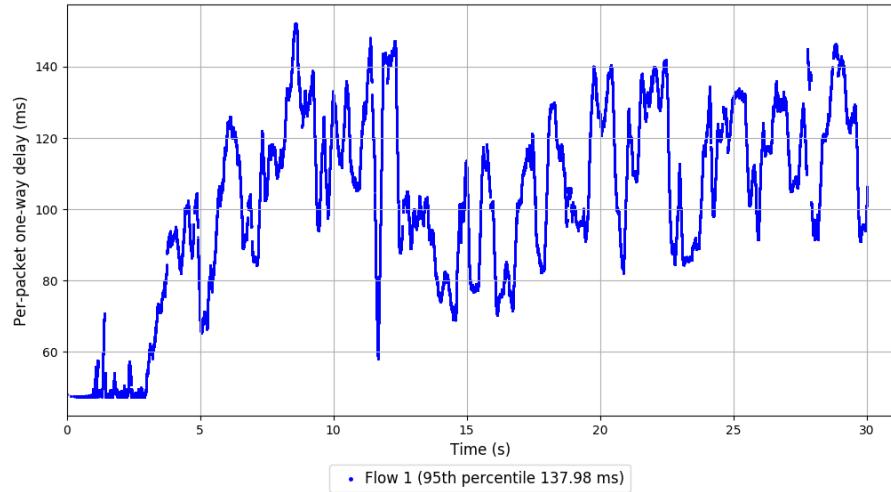
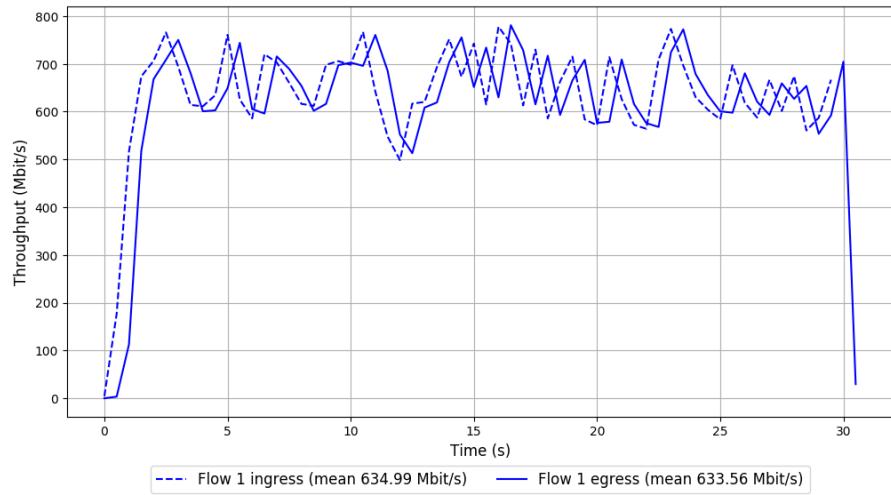


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-18 06:48:48
End at: 2019-01-18 06:49:18
Local clock offset: -0.013 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-01-18 07:38:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 633.56 Mbit/s
95th percentile per-packet one-way delay: 137.976 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 633.56 Mbit/s
95th percentile per-packet one-way delay: 137.976 ms
Loss rate: 0.23%
```

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

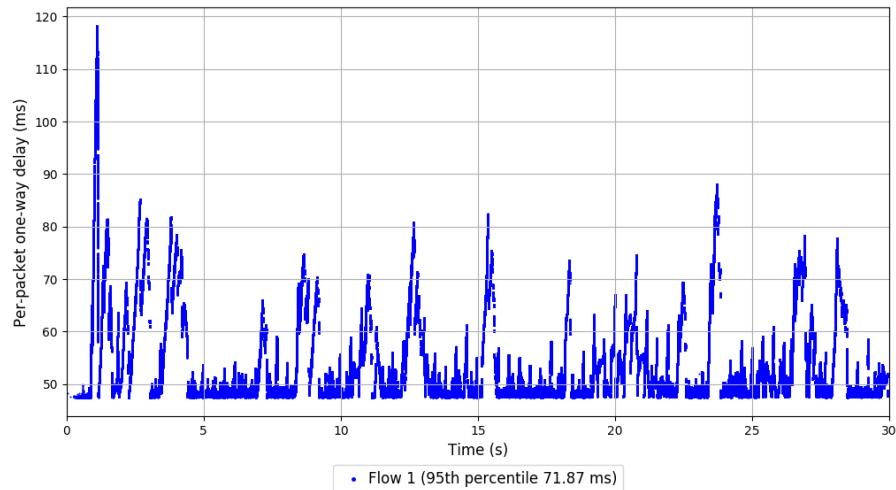
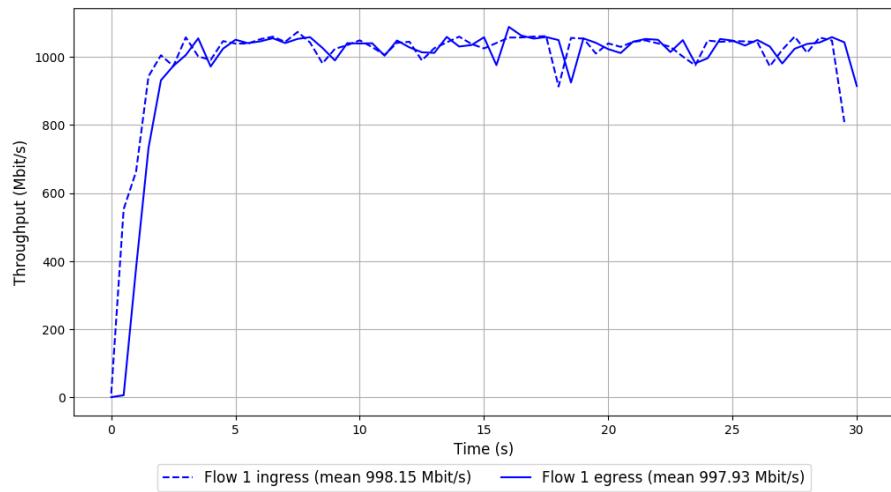


```
Run 1: Statistics of FillP

Start at: 2019-01-18 04:27:20
End at: 2019-01-18 04:27:50
Local clock offset: -0.135 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-01-18 07:46:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 997.93 Mbit/s
95th percentile per-packet one-way delay: 71.870 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 997.93 Mbit/s
95th percentile per-packet one-way delay: 71.870 ms
Loss rate: 0.02%
```

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

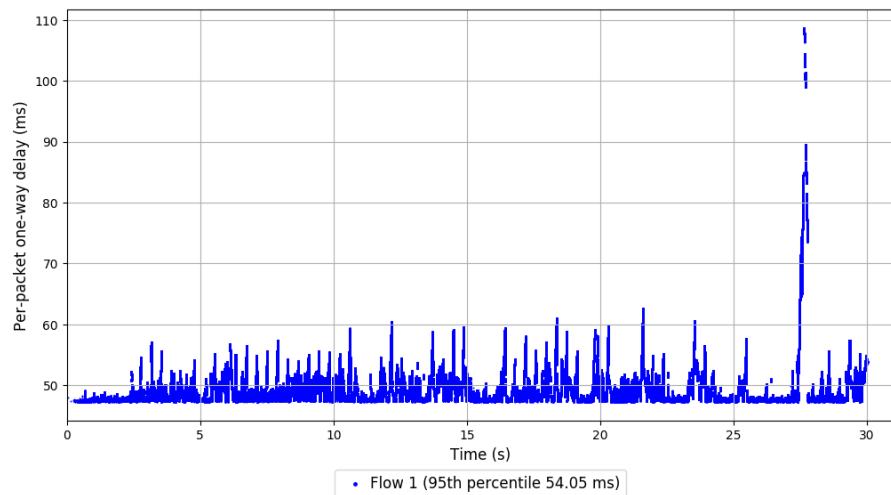
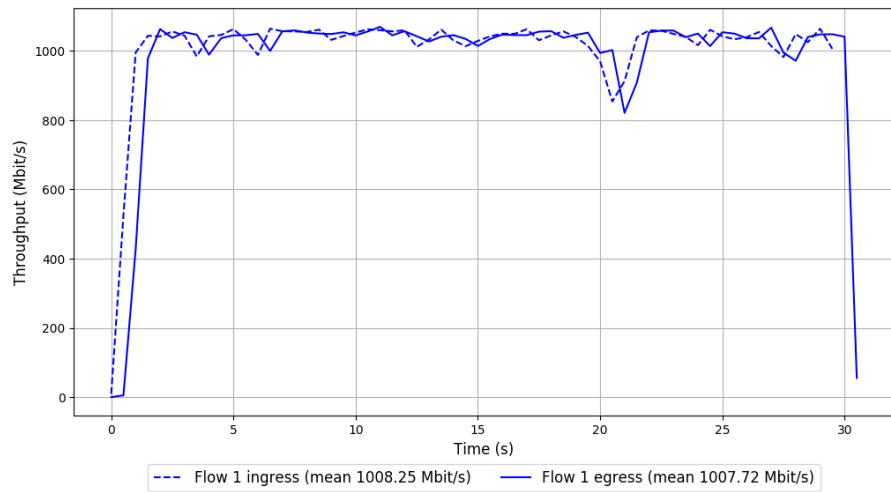


```
Run 2: Statistics of FillP
```

```
Start at: 2019-01-18 04:58:12
End at: 2019-01-18 04:58:42
Local clock offset: -0.078 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-01-18 07:59:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1007.72 Mbit/s
95th percentile per-packet one-way delay: 54.048 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 1007.72 Mbit/s
95th percentile per-packet one-way delay: 54.048 ms
Loss rate: 0.05%
```

## Run 2: Report of FillP — Data Link

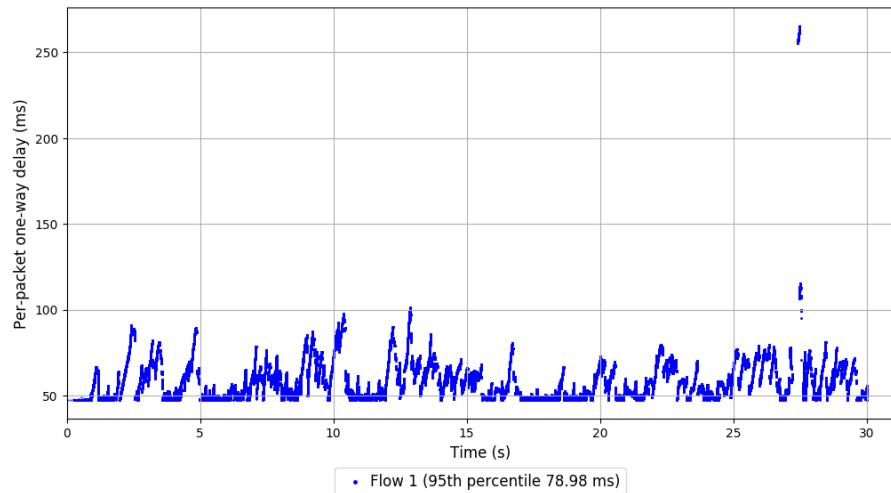
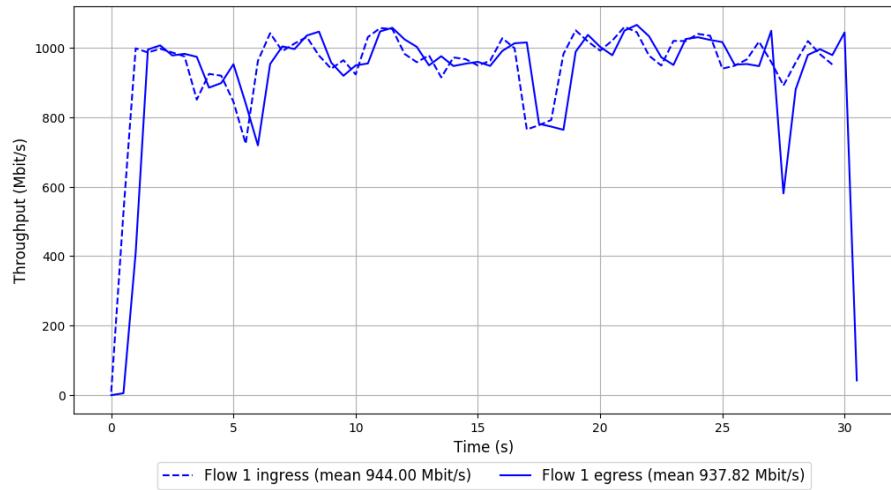


Run 3: Statistics of FillP

```
Start at: 2019-01-18 05:32:27
End at: 2019-01-18 05:32:57
Local clock offset: -0.055 ms
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2019-01-18 07:59:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 937.82 Mbit/s
95th percentile per-packet one-way delay: 78.981 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 937.82 Mbit/s
95th percentile per-packet one-way delay: 78.981 ms
Loss rate: 0.65%
```

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

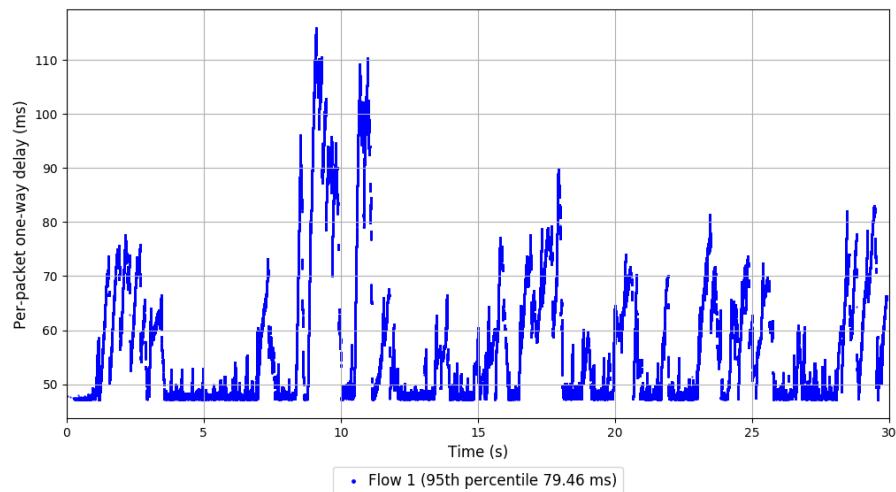
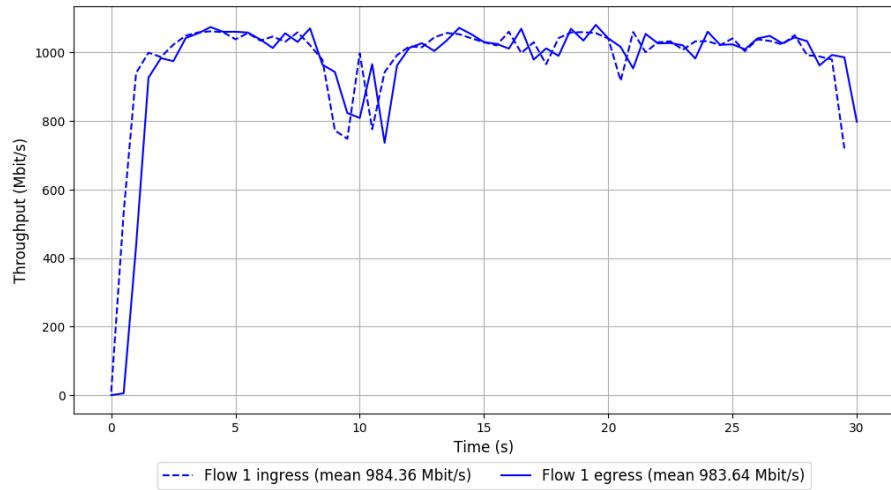


Run 4: Statistics of FillP

```
Start at: 2019-01-18 06:06:48
End at: 2019-01-18 06:07:18
Local clock offset: -0.049 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-01-18 07:59:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 983.64 Mbit/s
95th percentile per-packet one-way delay: 79.457 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 983.64 Mbit/s
95th percentile per-packet one-way delay: 79.457 ms
Loss rate: 0.08%
```

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

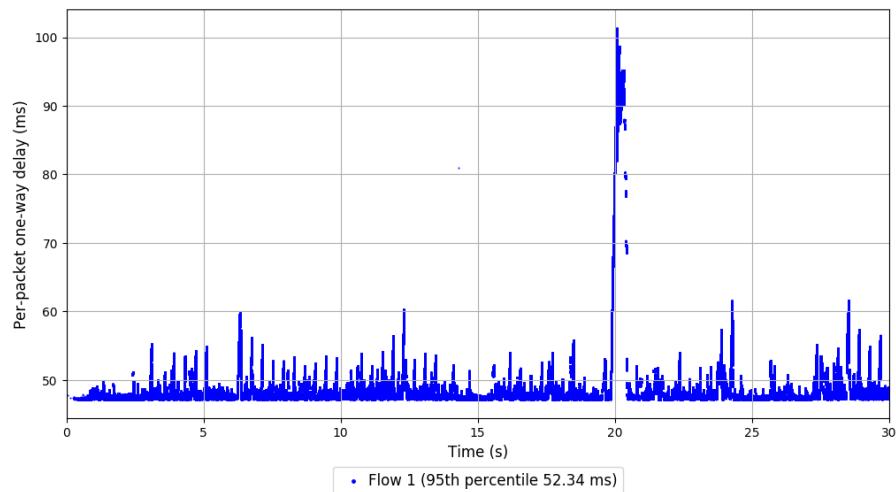
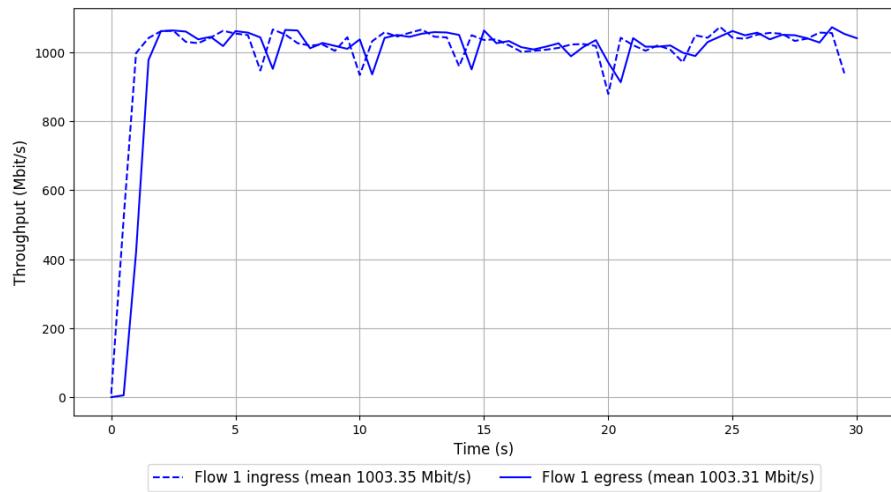


```
Run 5: Statistics of FillP
```

```
Start at: 2019-01-18 06:40:51
End at: 2019-01-18 06:41:21
Local clock offset: 0.106 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-01-18 07:59:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1003.31 Mbit/s
95th percentile per-packet one-way delay: 52.336 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1003.31 Mbit/s
95th percentile per-packet one-way delay: 52.336 ms
Loss rate: 0.00%
```

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

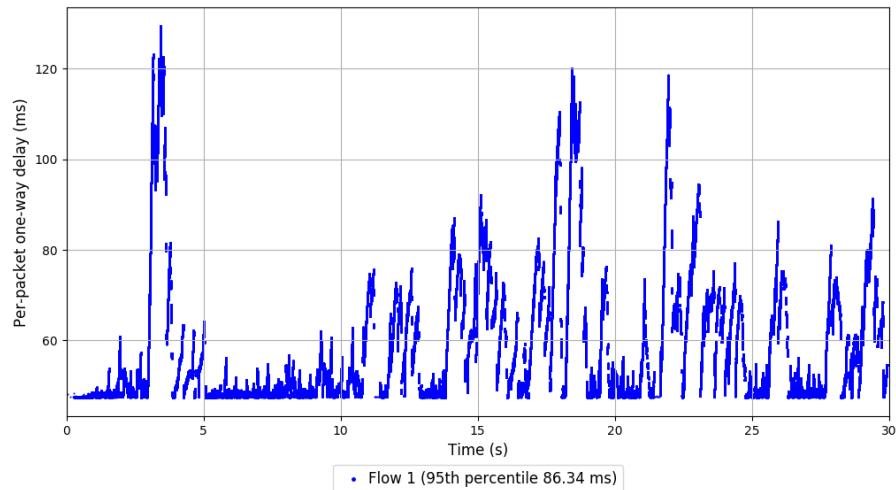
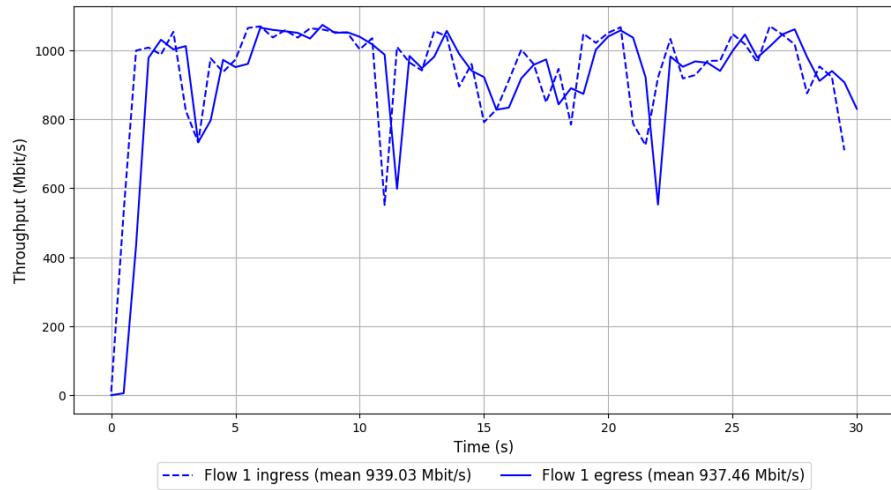


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-18 04:33:25
End at: 2019-01-18 04:33:55
Local clock offset: -0.137 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-01-18 07:59:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 937.46 Mbit/s
95th percentile per-packet one-way delay: 86.345 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 937.46 Mbit/s
95th percentile per-packet one-way delay: 86.345 ms
Loss rate: 0.17%
```

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

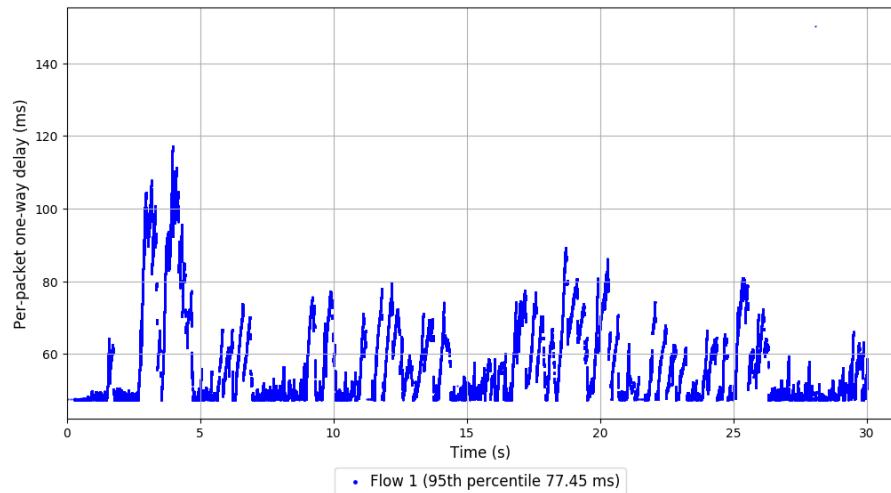
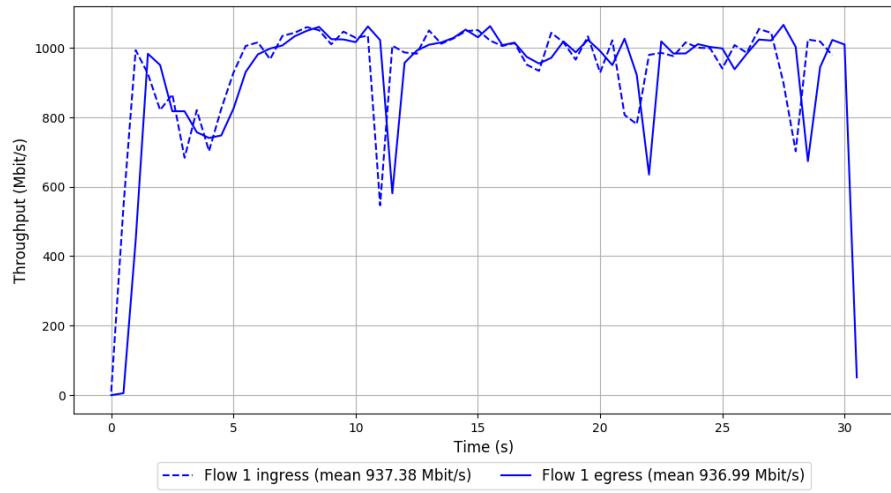


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-18 05:05:03
End at: 2019-01-18 05:05:33
Local clock offset: -0.075 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-01-18 07:59:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 936.99 Mbit/s
95th percentile per-packet one-way delay: 77.448 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 936.99 Mbit/s
95th percentile per-packet one-way delay: 77.448 ms
Loss rate: 0.04%
```

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

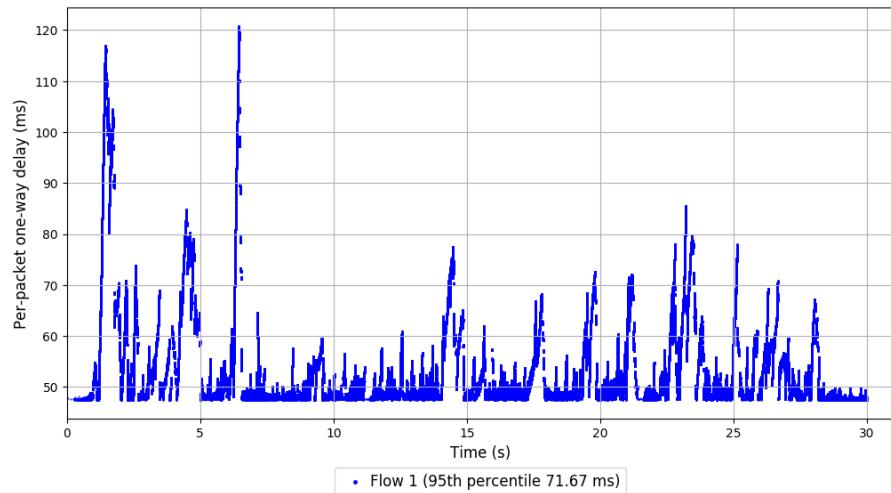
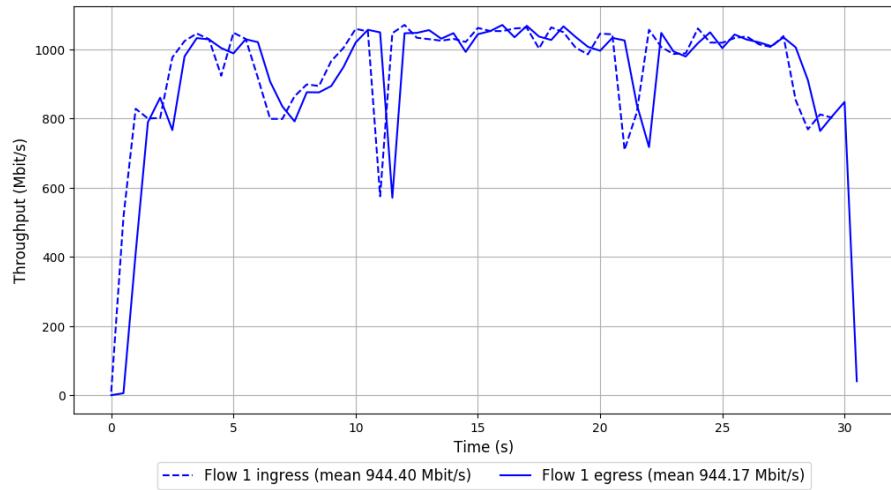


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-18 05:39:19
End at: 2019-01-18 05:39:49
Local clock offset: -0.044 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-01-18 08:00:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 944.17 Mbit/s
95th percentile per-packet one-way delay: 71.667 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 944.17 Mbit/s
95th percentile per-packet one-way delay: 71.667 ms
Loss rate: 0.02%
```

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

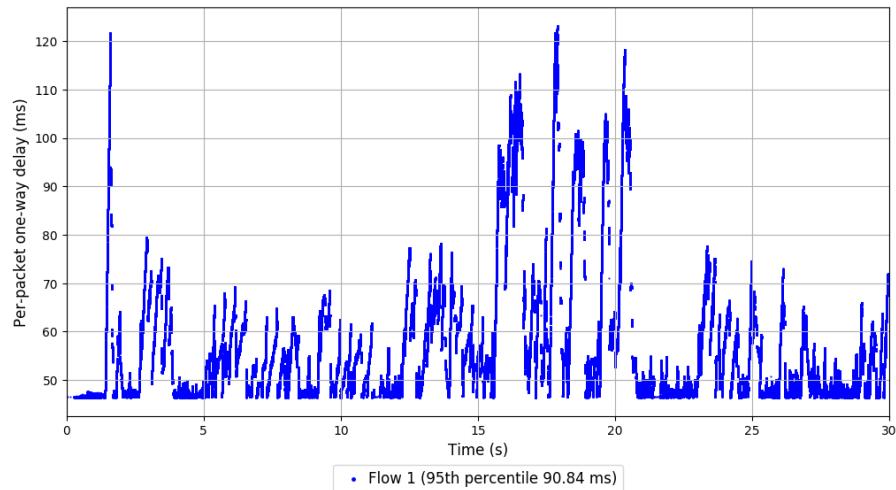
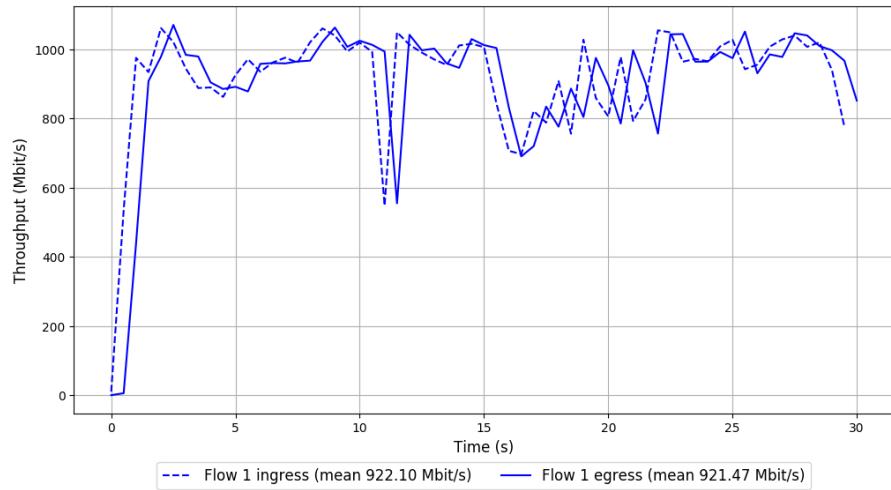


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-18 06:13:46
End at: 2019-01-18 06:14:17
Local clock offset: -0.024 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-01-18 08:10:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 921.47 Mbit/s
95th percentile per-packet one-way delay: 90.843 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 921.47 Mbit/s
95th percentile per-packet one-way delay: 90.843 ms
Loss rate: 0.06%
```

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

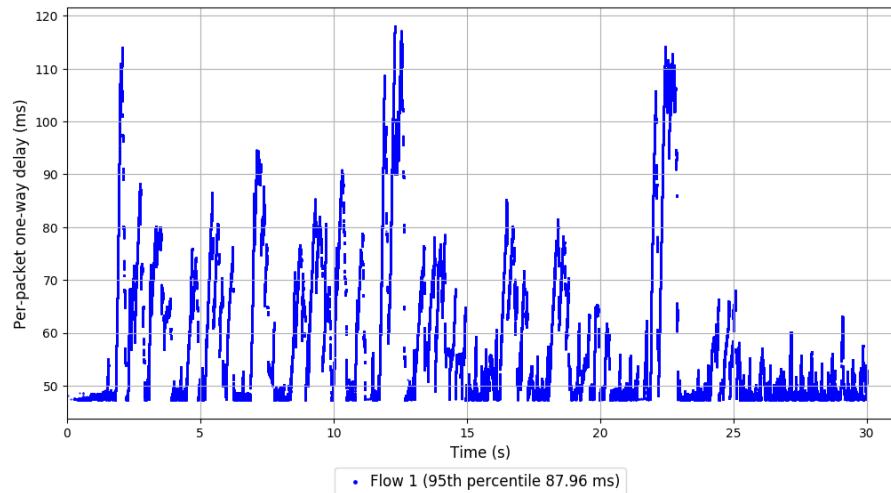
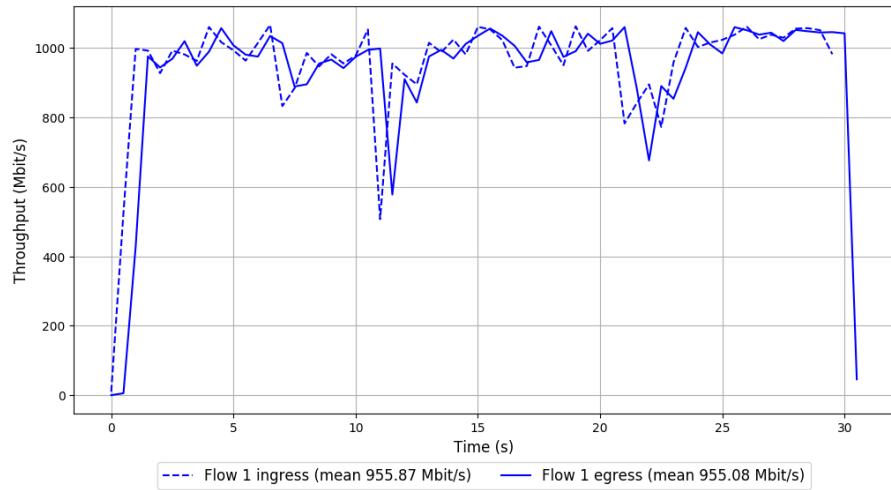


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-18 06:47:01
End at: 2019-01-18 06:47:31
Local clock offset: 0.001 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-01-18 08:21:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 955.08 Mbit/s
95th percentile per-packet one-way delay: 87.962 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 955.08 Mbit/s
95th percentile per-packet one-way delay: 87.962 ms
Loss rate: 0.08%
```

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

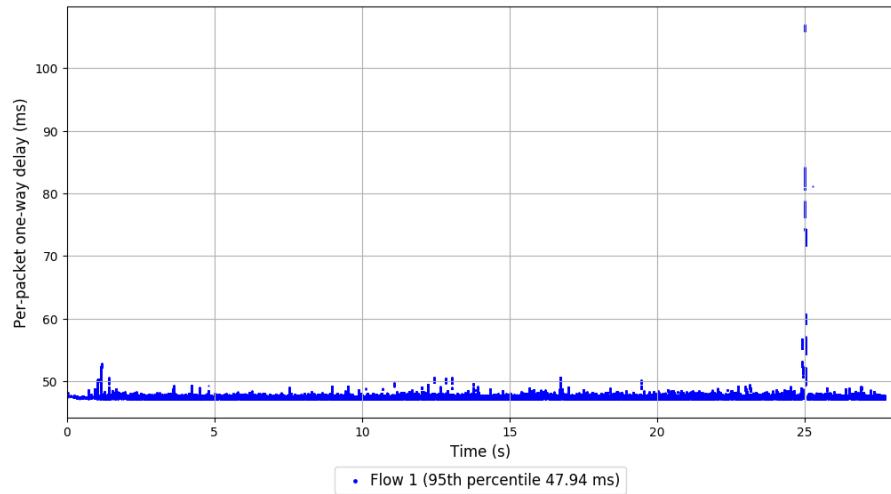
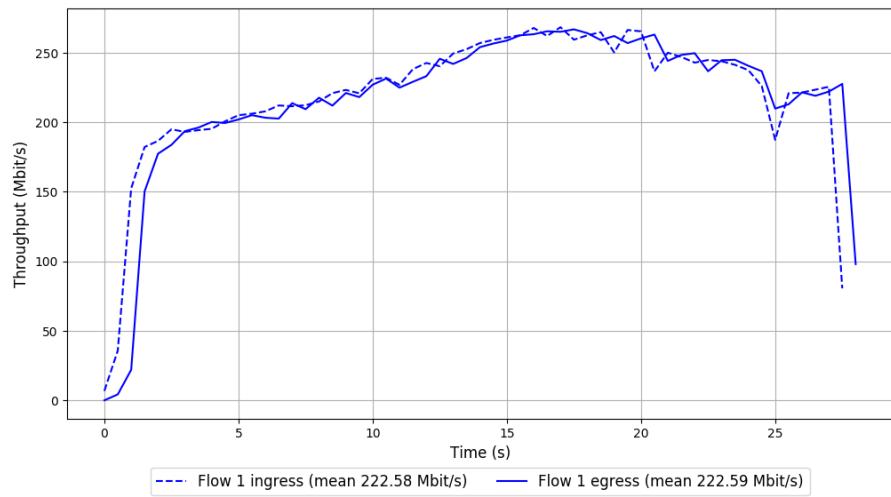


Run 1: Statistics of Indigo

```
Start at: 2019-01-18 04:19:07
End at: 2019-01-18 04:19:37
Local clock offset: -0.094 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-01-18 08:21:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.59 Mbit/s
95th percentile per-packet one-way delay: 47.935 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.59 Mbit/s
95th percentile per-packet one-way delay: 47.935 ms
Loss rate: 0.00%
```

## Run 1: Report of Indigo — Data Link

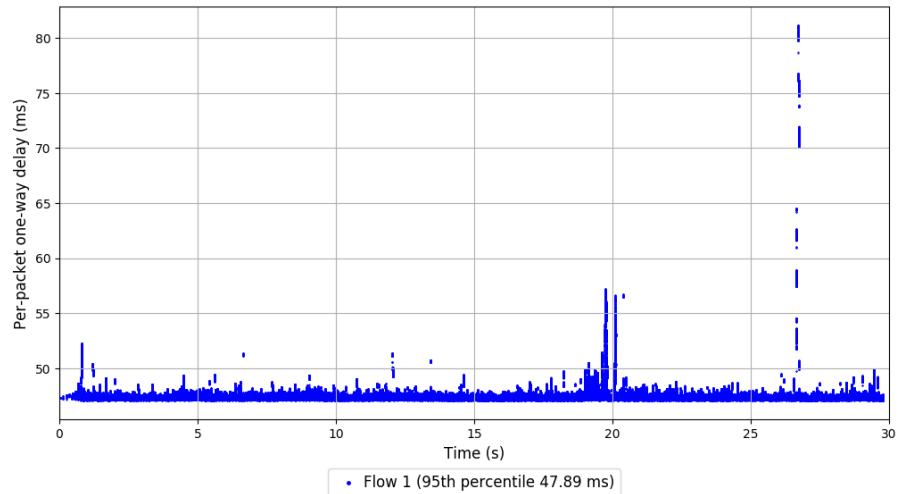
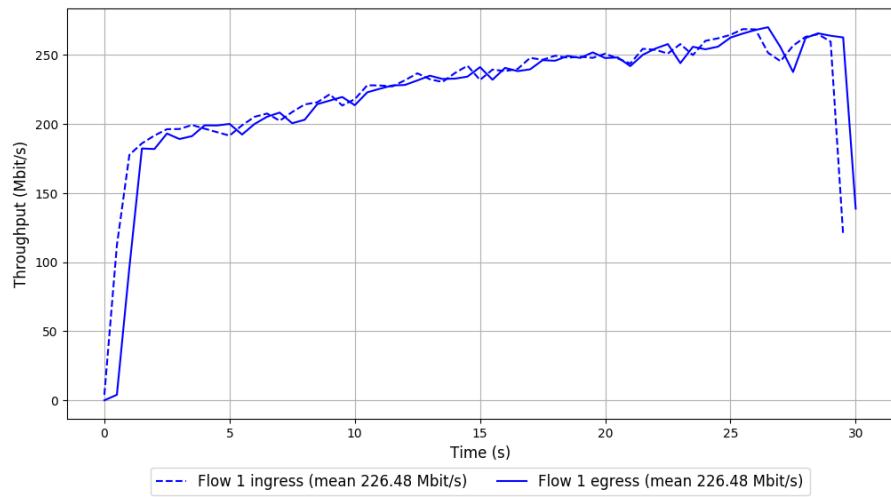


Run 2: Statistics of Indigo

```
Start at: 2019-01-18 04:49:49
End at: 2019-01-18 04:50:19
Local clock offset: -0.064 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-01-18 08:21:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.48 Mbit/s
95th percentile per-packet one-way delay: 47.888 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.48 Mbit/s
95th percentile per-packet one-way delay: 47.888 ms
Loss rate: 0.00%
```

## Run 2: Report of Indigo — Data Link

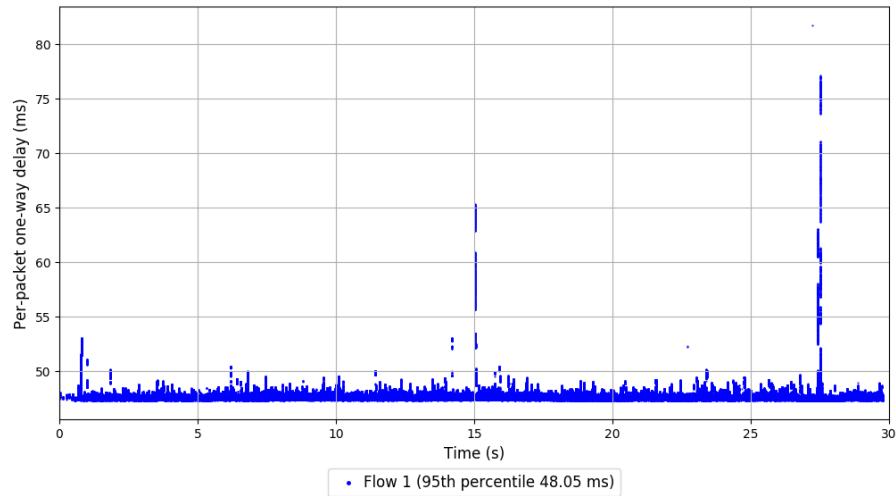
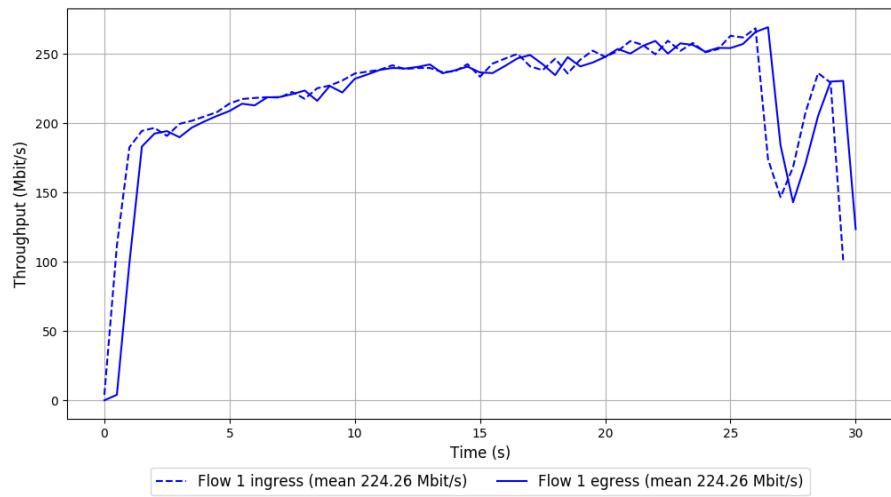


Run 3: Statistics of Indigo

```
Start at: 2019-01-18 05:23:36
End at: 2019-01-18 05:24:06
Local clock offset: -0.043 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-01-18 08:21:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.26 Mbit/s
95th percentile per-packet one-way delay: 48.054 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.26 Mbit/s
95th percentile per-packet one-way delay: 48.054 ms
Loss rate: 0.00%
```

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

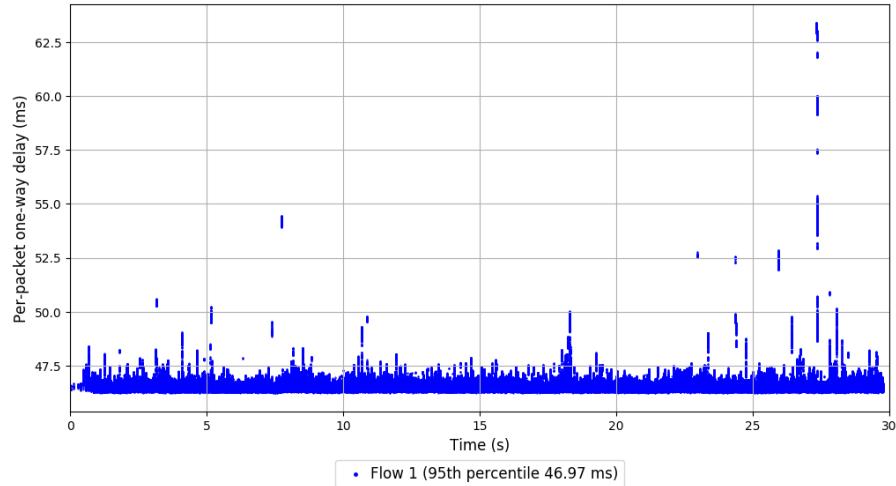
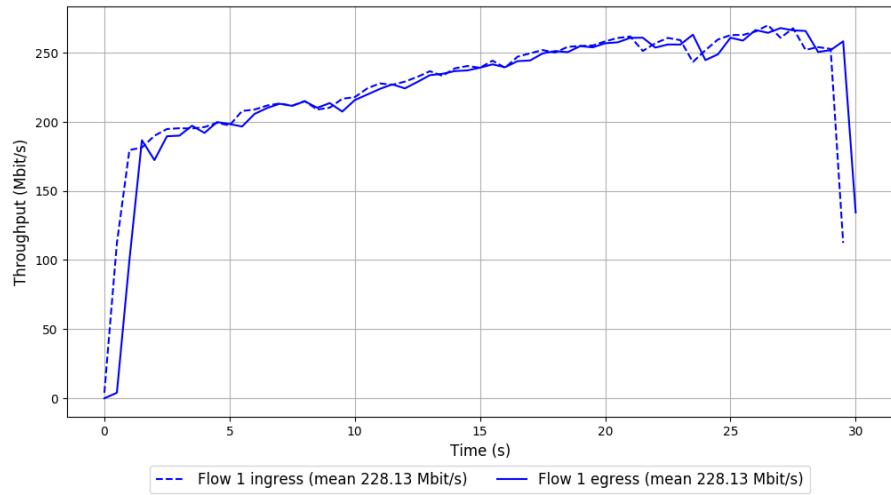


Run 4: Statistics of Indigo

```
Start at: 2019-01-18 05:57:39
End at: 2019-01-18 05:58:09
Local clock offset: 0.082 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-01-18 08:21:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.13 Mbit/s
95th percentile per-packet one-way delay: 46.970 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.13 Mbit/s
95th percentile per-packet one-way delay: 46.970 ms
Loss rate: 0.00%
```

## Run 4: Report of Indigo — Data Link

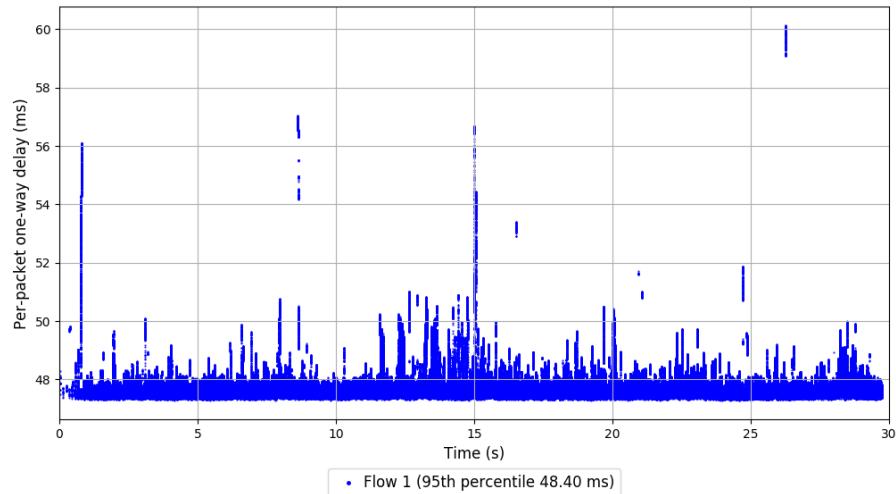
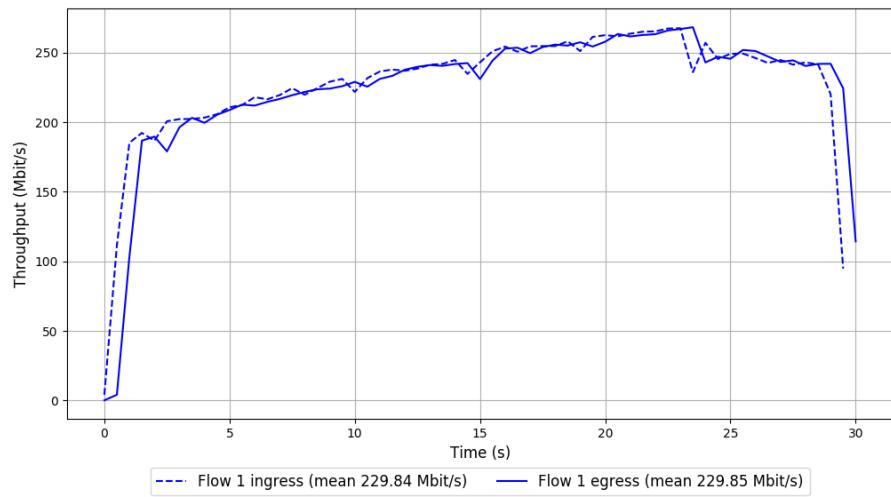


Run 5: Statistics of Indigo

```
Start at: 2019-01-18 06:31:58
End at: 2019-01-18 06:32:28
Local clock offset: -0.006 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-01-18 08:21:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.85 Mbit/s
95th percentile per-packet one-way delay: 48.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.85 Mbit/s
95th percentile per-packet one-way delay: 48.398 ms
Loss rate: 0.00%
```

## Run 5: Report of Indigo — Data Link

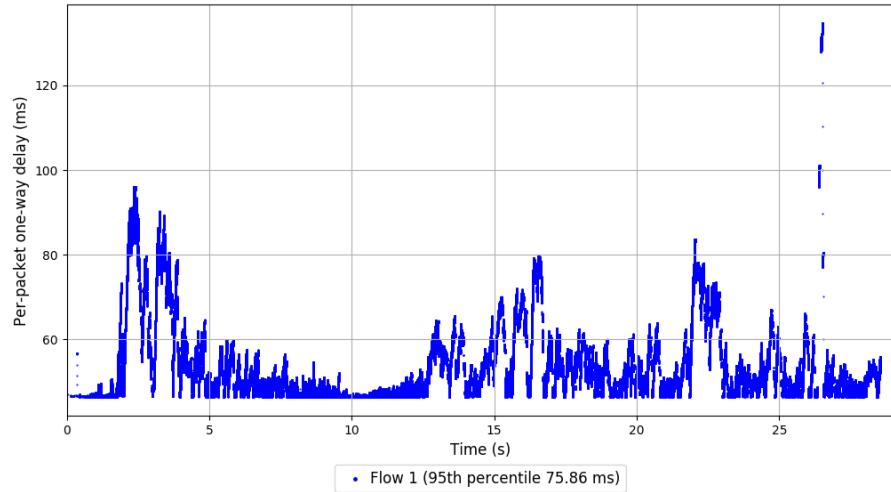
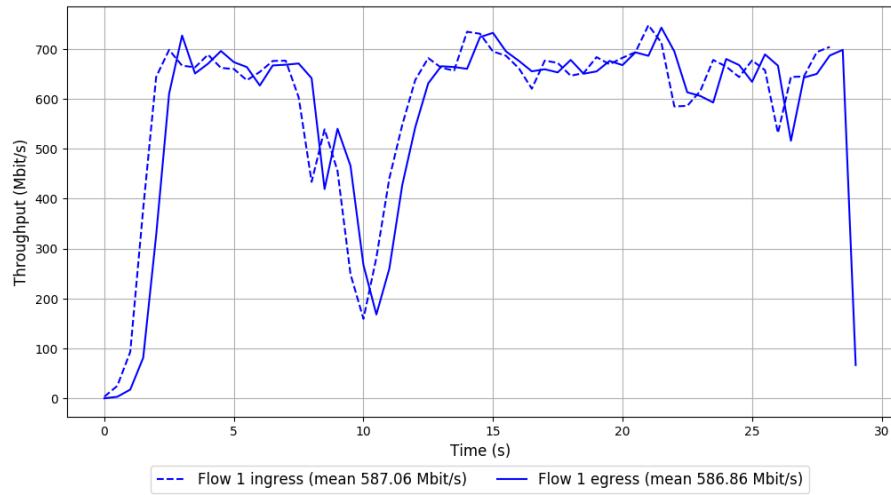


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 04:40:47
End at: 2019-01-18 04:41:17
Local clock offset: -0.083 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-01-18 08:21:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 586.86 Mbit/s
95th percentile per-packet one-way delay: 75.865 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 586.86 Mbit/s
95th percentile per-packet one-way delay: 75.865 ms
Loss rate: 0.03%
```

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

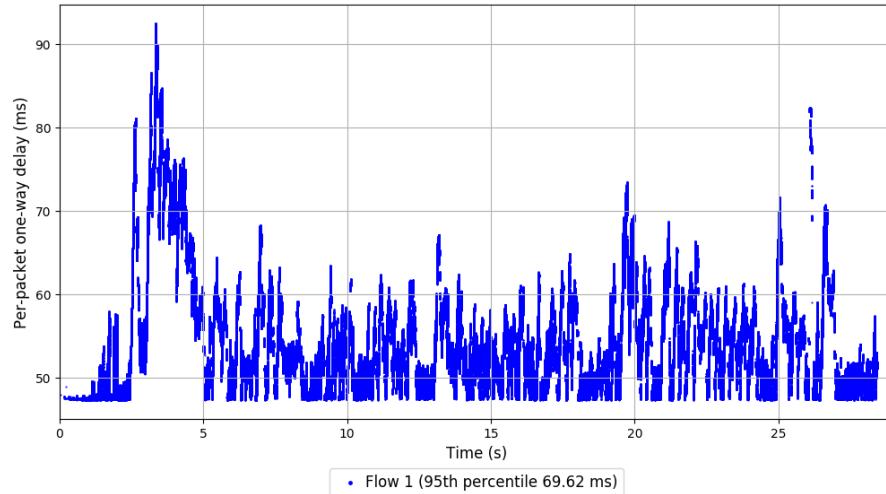
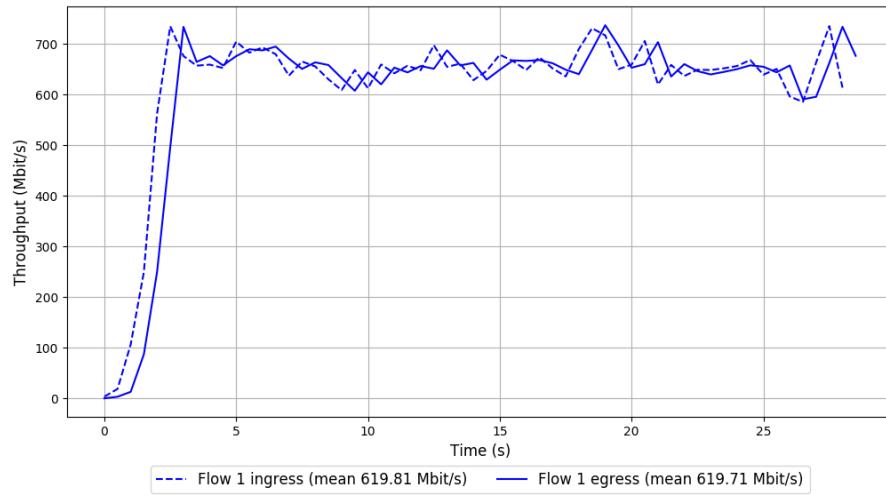


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 05:13:13
End at: 2019-01-18 05:13:43
Local clock offset: -0.082 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-01-18 08:21:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 619.71 Mbit/s
95th percentile per-packet one-way delay: 69.622 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 619.71 Mbit/s
95th percentile per-packet one-way delay: 69.622 ms
Loss rate: 0.02%
```

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

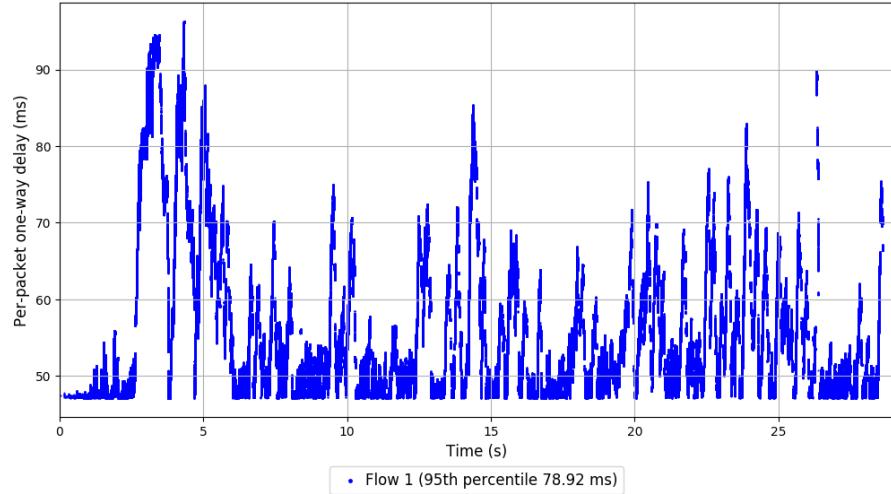
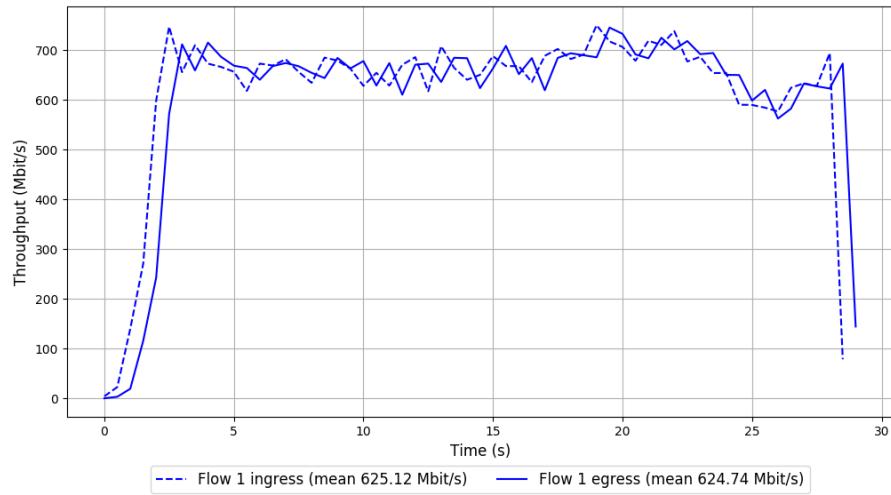


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 05:47:29
End at: 2019-01-18 05:47:59
Local clock offset: 0.106 ms
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-01-18 08:21:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 624.74 Mbit/s
95th percentile per-packet one-way delay: 78.919 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 624.74 Mbit/s
95th percentile per-packet one-way delay: 78.919 ms
Loss rate: 0.06%
```

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

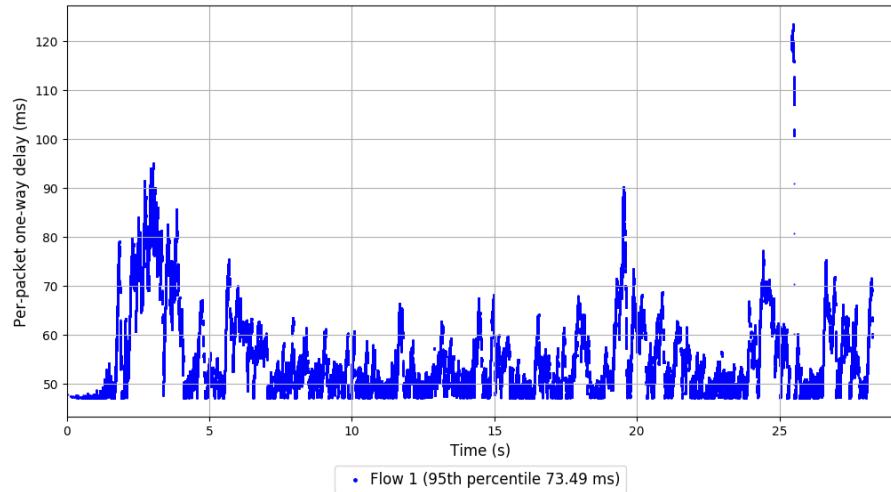
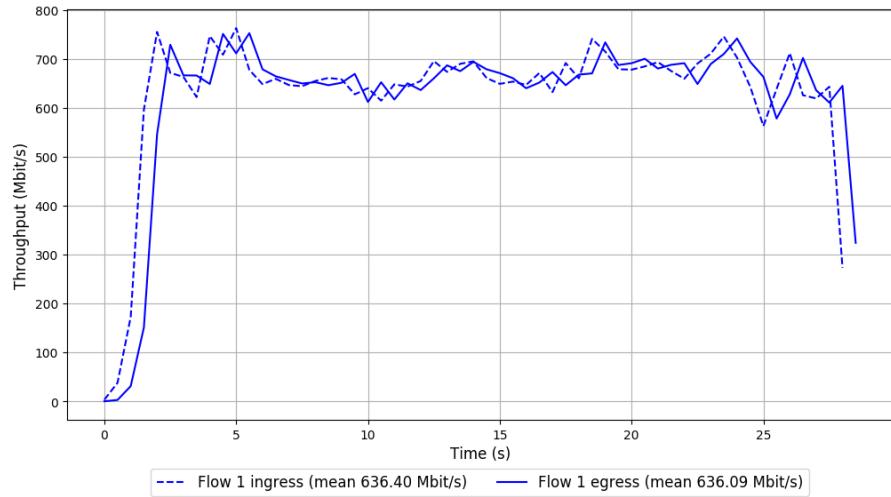


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 06:22:03
End at: 2019-01-18 06:22:33
Local clock offset: 0.176 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-01-18 08:21:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 636.09 Mbit/s
95th percentile per-packet one-way delay: 73.488 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 636.09 Mbit/s
95th percentile per-packet one-way delay: 73.488 ms
Loss rate: 0.05%
```

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

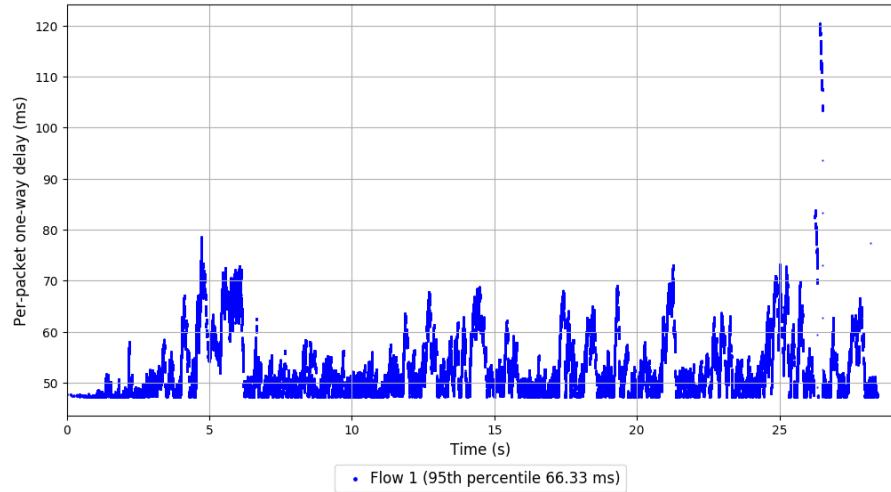
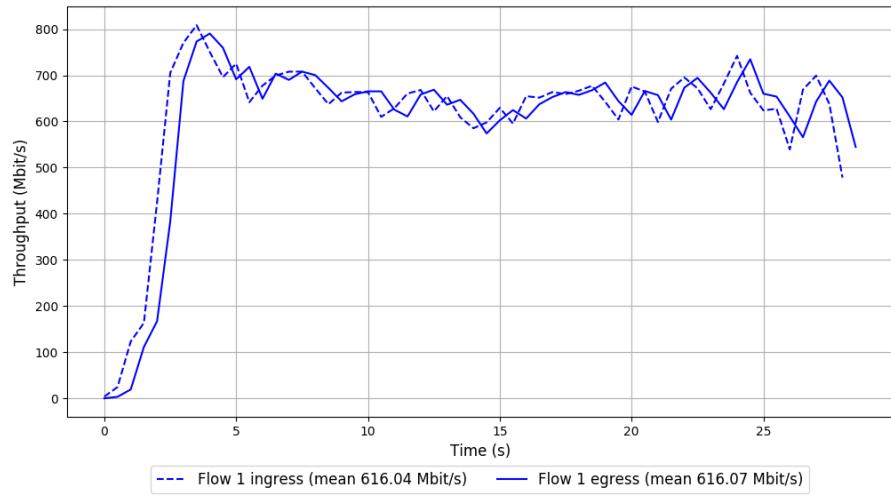


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 06:54:37
End at: 2019-01-18 06:55:07
Local clock offset: -0.073 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-01-18 08:21:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 616.07 Mbit/s
95th percentile per-packet one-way delay: 66.335 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 616.07 Mbit/s
95th percentile per-packet one-way delay: 66.335 ms
Loss rate: 0.00%
```

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

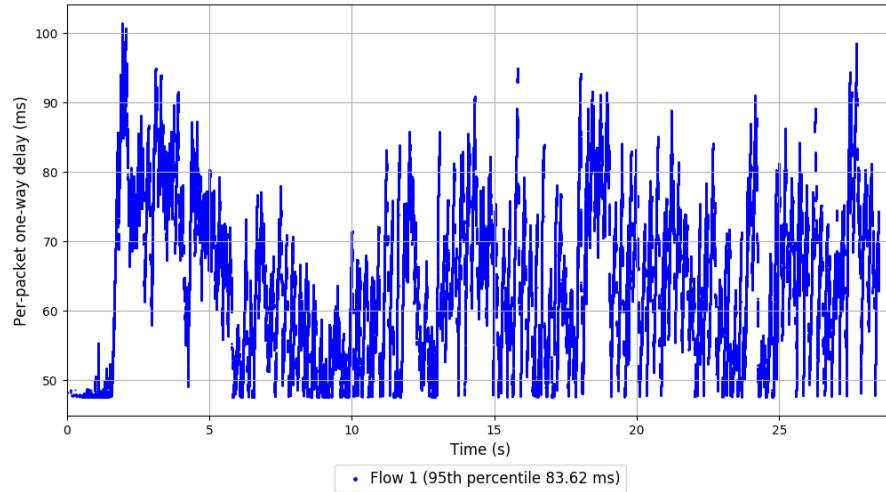
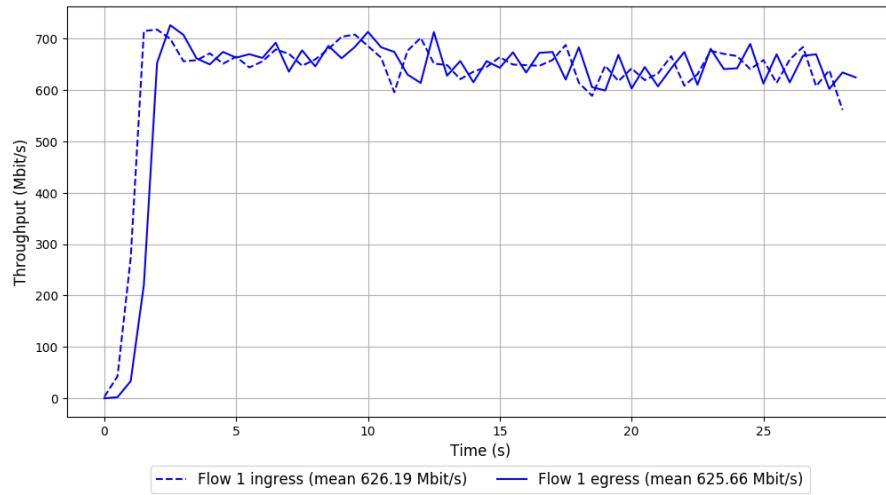


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-18 04:43:58
End at: 2019-01-18 04:44:28
Local clock offset: -0.063 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-01-18 08:21:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 625.66 Mbit/s
95th percentile per-packet one-way delay: 83.621 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 625.66 Mbit/s
95th percentile per-packet one-way delay: 83.621 ms
Loss rate: 0.09%
```

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

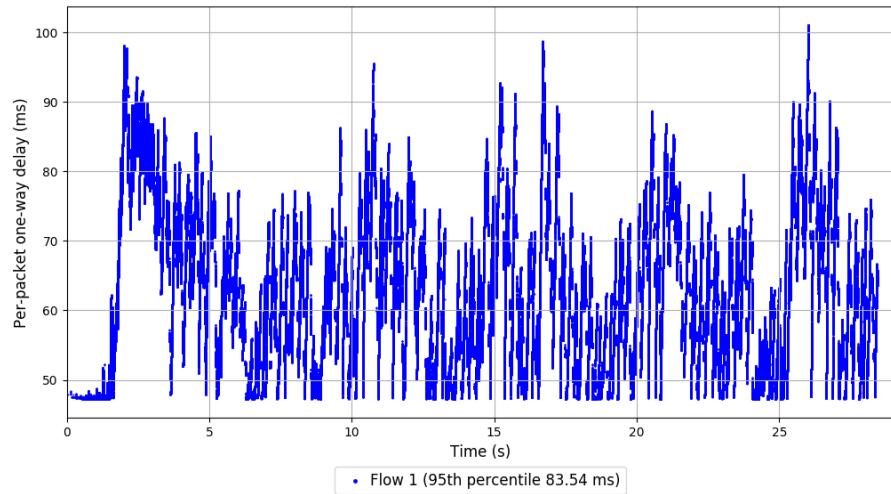
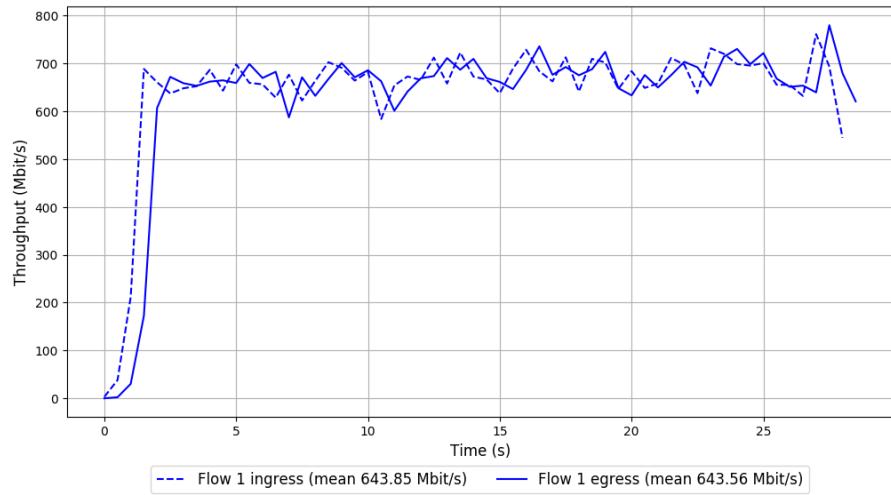


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 05:17:01
End at: 2019-01-18 05:17:31
Local clock offset: -0.056 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-01-18 08:23:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 643.56 Mbit/s
95th percentile per-packet one-way delay: 83.543 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 643.56 Mbit/s
95th percentile per-packet one-way delay: 83.543 ms
Loss rate: 0.04%
```

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

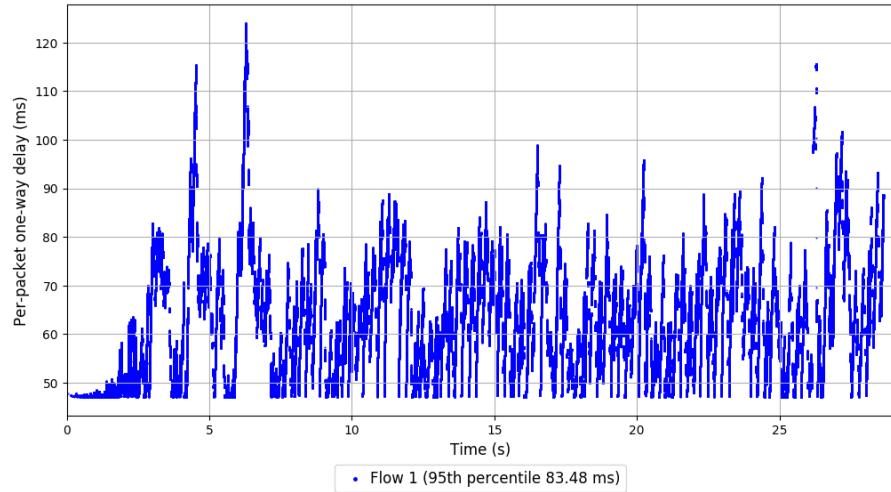
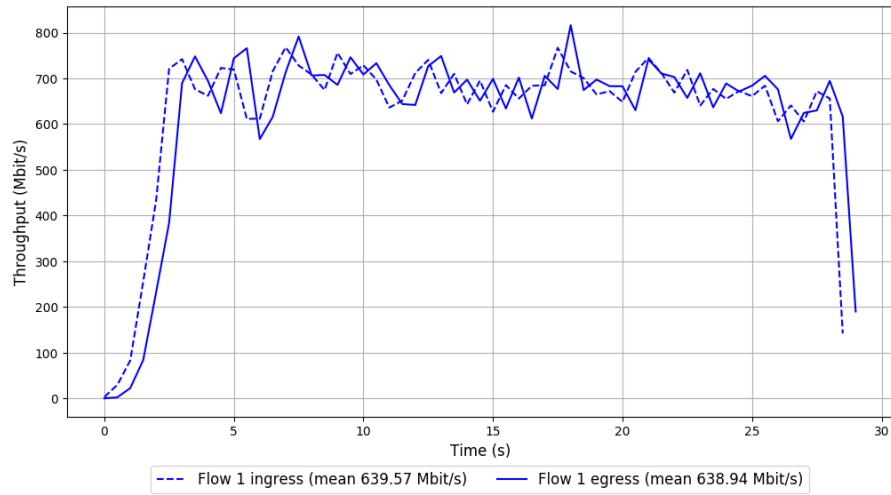


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 05:51:06
End at: 2019-01-18 05:51:36
Local clock offset: 0.112 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-01-18 08:23:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 638.94 Mbit/s
95th percentile per-packet one-way delay: 83.482 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 638.94 Mbit/s
95th percentile per-packet one-way delay: 83.482 ms
Loss rate: 0.10%
```

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

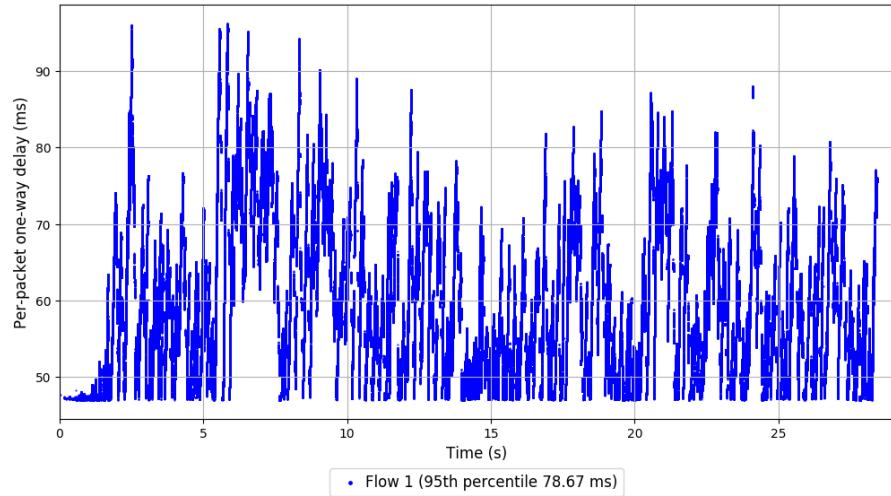
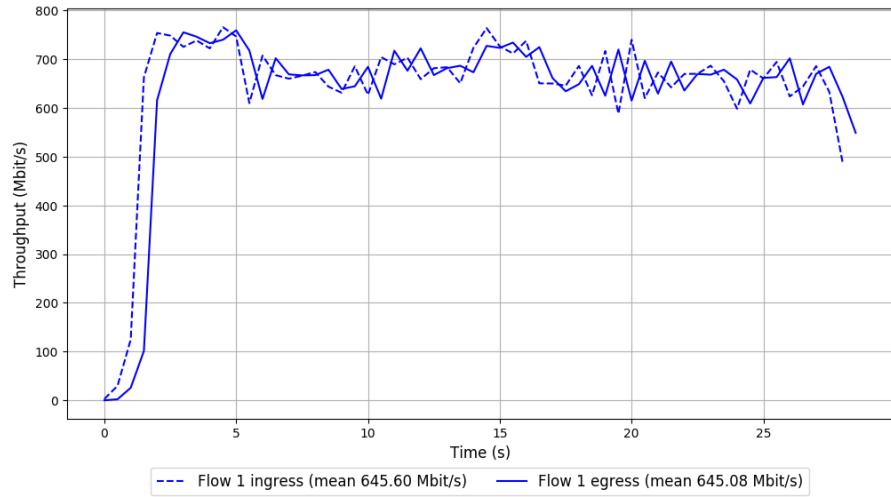


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 06:25:41
End at: 2019-01-18 06:26:11
Local clock offset: 0.339 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-01-18 08:29:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 645.08 Mbit/s
95th percentile per-packet one-way delay: 78.675 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 645.08 Mbit/s
95th percentile per-packet one-way delay: 78.675 ms
Loss rate: 0.08%
```

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

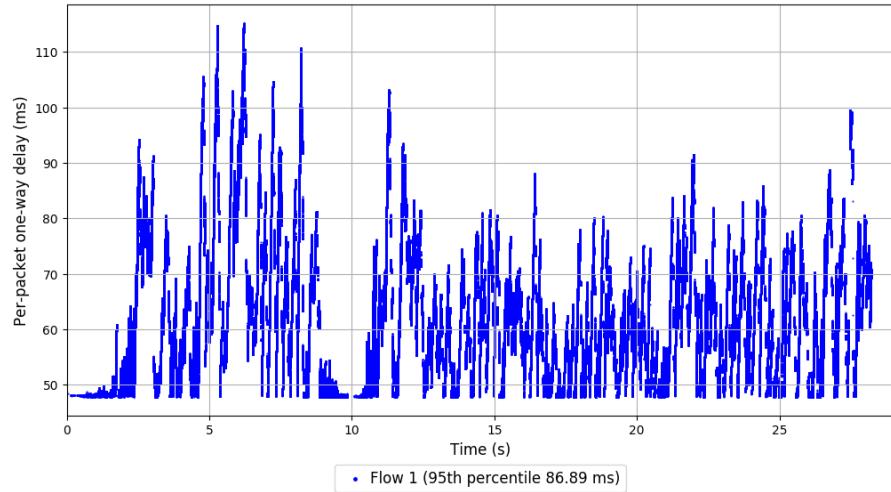
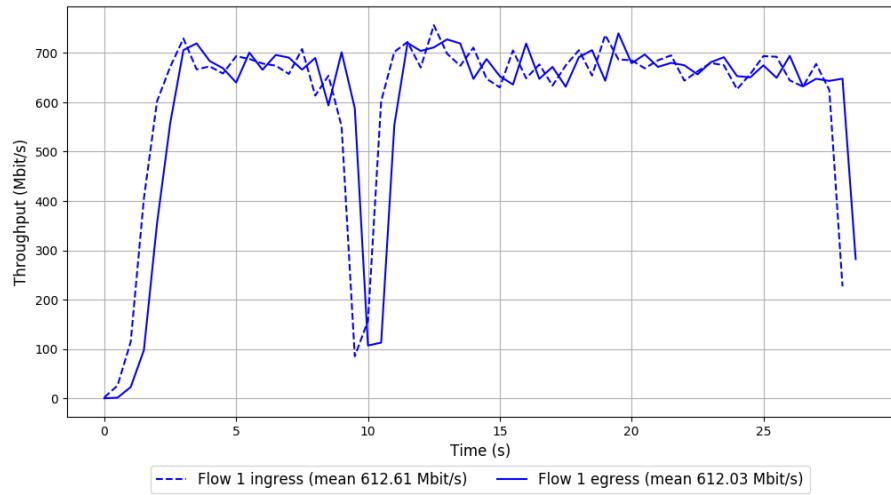


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 06:57:55
End at: 2019-01-18 06:58:25
Local clock offset: -0.34 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-01-18 08:30:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 612.03 Mbit/s
95th percentile per-packet one-way delay: 86.885 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 612.03 Mbit/s
95th percentile per-packet one-way delay: 86.885 ms
Loss rate: 0.10%
```

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

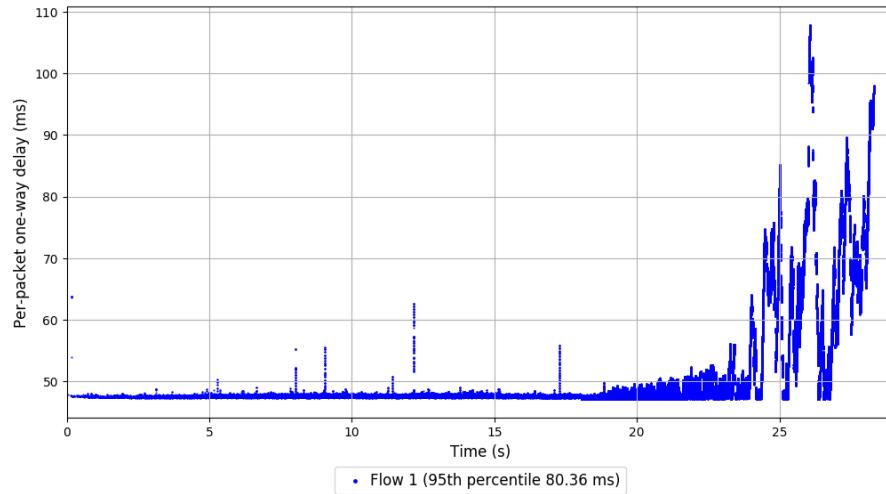
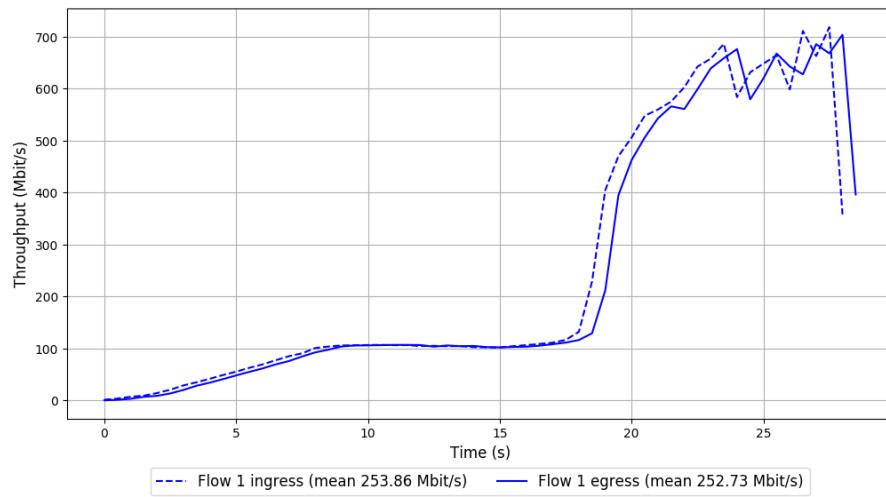


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 04:20:35
End at: 2019-01-18 04:21:05
Local clock offset: -0.149 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-01-18 08:30:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 252.73 Mbit/s
95th percentile per-packet one-way delay: 80.357 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 252.73 Mbit/s
95th percentile per-packet one-way delay: 80.357 ms
Loss rate: 0.45%
```

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

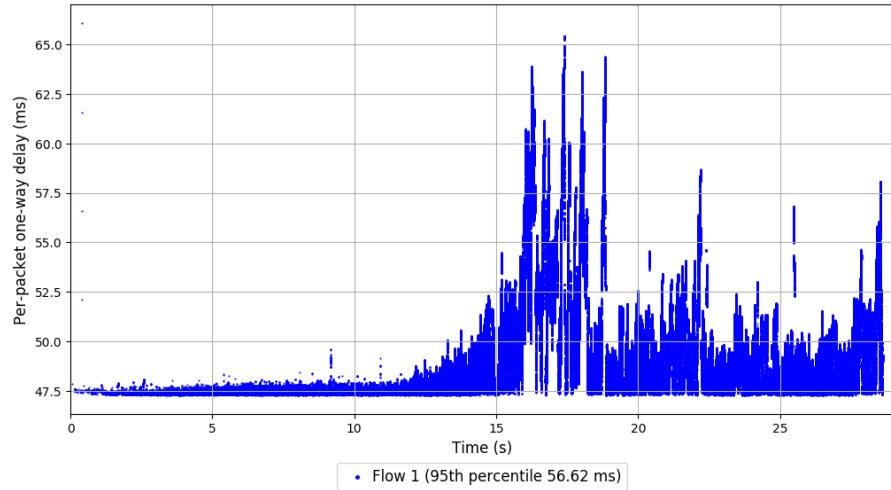
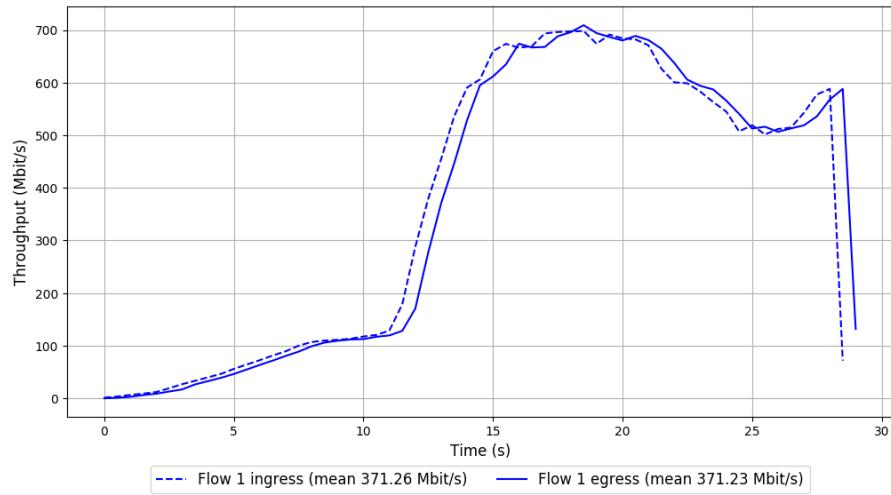


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 04:51:17
End at: 2019-01-18 04:51:47
Local clock offset: -0.109 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-01-18 08:30:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 371.23 Mbit/s
95th percentile per-packet one-way delay: 56.615 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 371.23 Mbit/s
95th percentile per-packet one-way delay: 56.615 ms
Loss rate: 0.00%
```

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

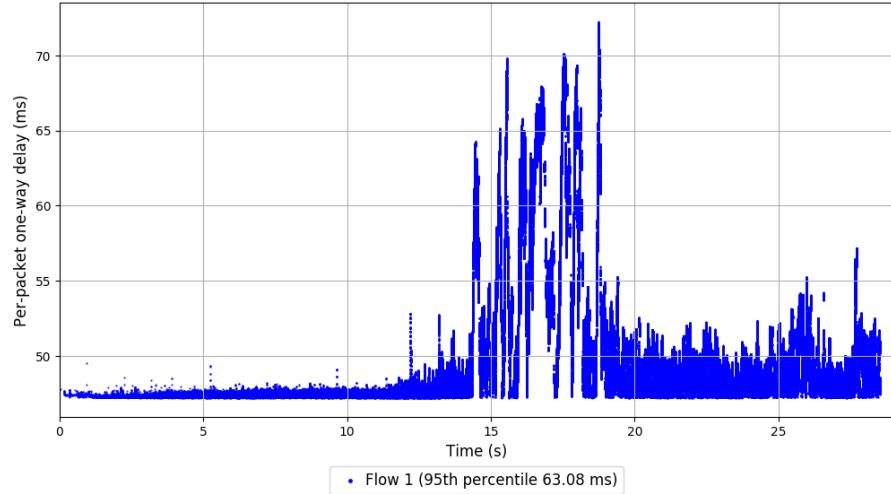
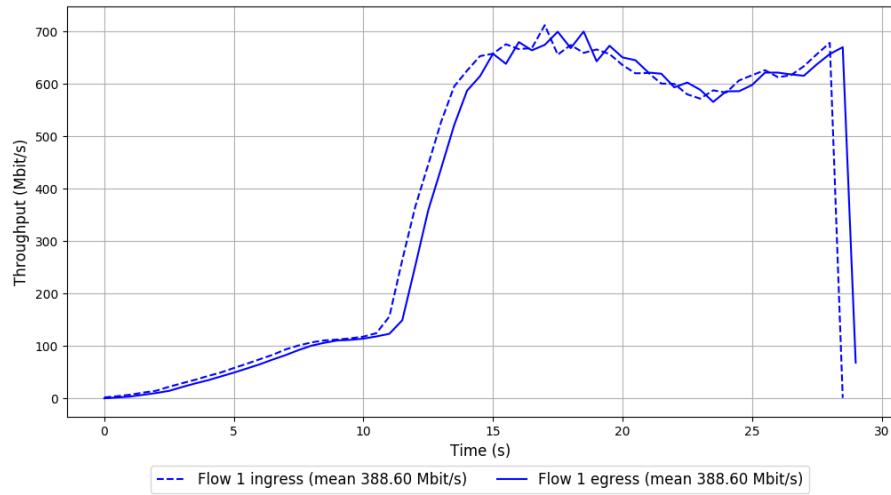


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 05:25:15
End at: 2019-01-18 05:25:45
Local clock offset: -0.043 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-01-18 08:30:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 388.60 Mbit/s
95th percentile per-packet one-way delay: 63.077 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 388.60 Mbit/s
95th percentile per-packet one-way delay: 63.077 ms
Loss rate: 0.00%
```

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

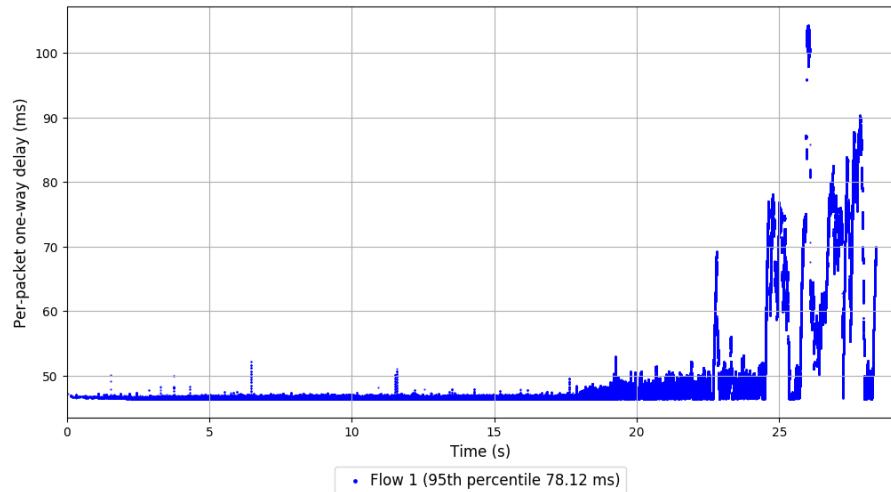
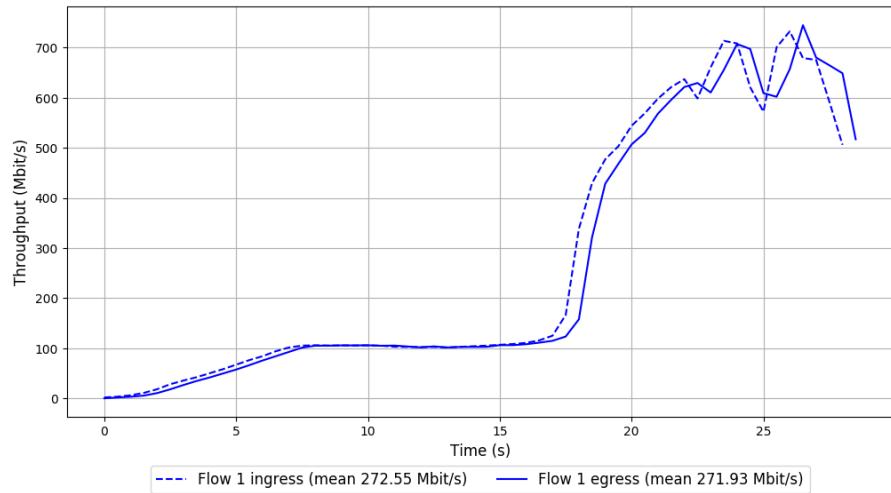


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 05:59:17
End at: 2019-01-18 05:59:47
Local clock offset: -0.056 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-01-18 08:30:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 271.93 Mbit/s
95th percentile per-packet one-way delay: 78.117 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 271.93 Mbit/s
95th percentile per-packet one-way delay: 78.117 ms
Loss rate: 0.23%
```

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

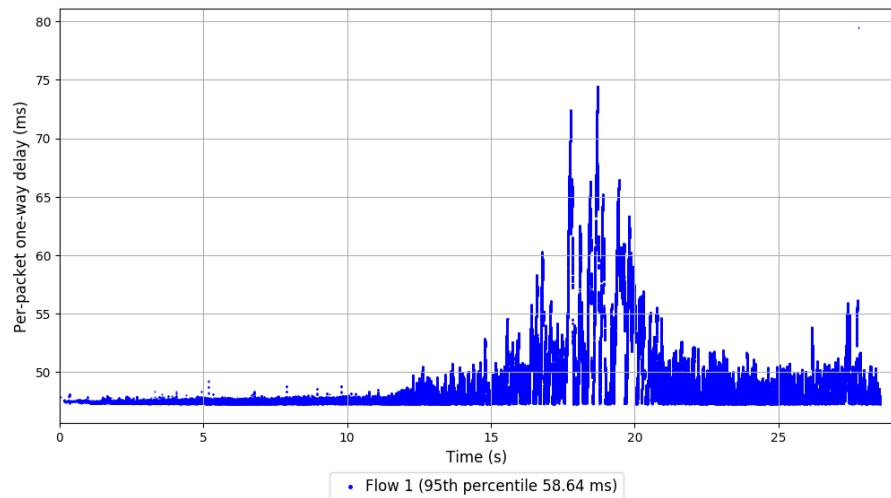
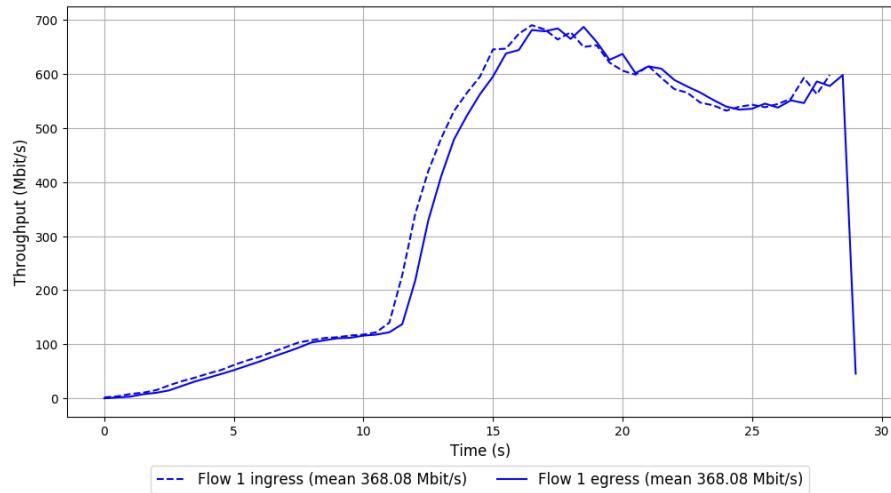


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 06:33:35
End at: 2019-01-18 06:34:05
Local clock offset: -0.012 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-01-18 08:30:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 368.08 Mbit/s
95th percentile per-packet one-way delay: 58.639 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 368.08 Mbit/s
95th percentile per-packet one-way delay: 58.639 ms
Loss rate: 0.00%
```

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

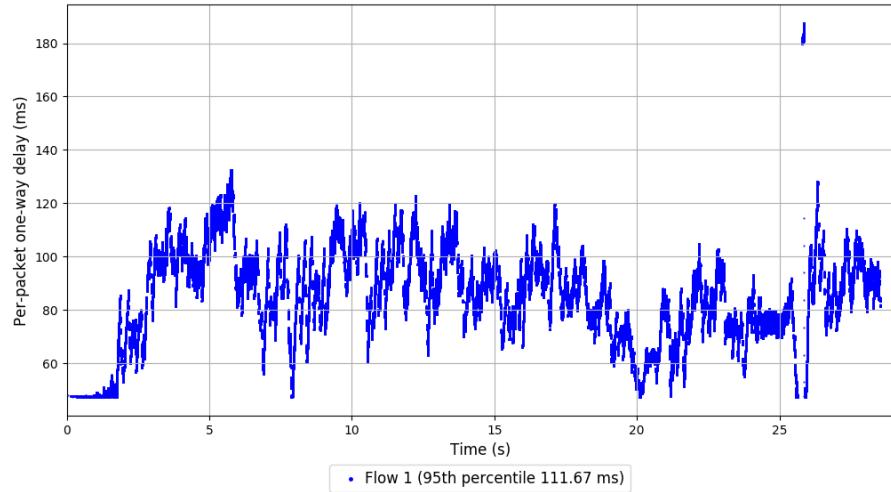
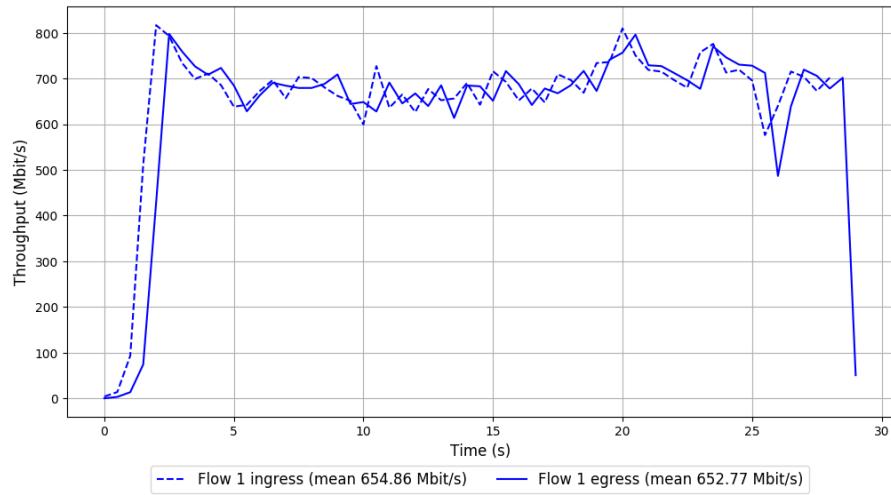


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 04:48:11
End at: 2019-01-18 04:48:41
Local clock offset: -0.072 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-01-18 08:36:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 652.77 Mbit/s
95th percentile per-packet one-way delay: 111.671 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 652.77 Mbit/s
95th percentile per-packet one-way delay: 111.671 ms
Loss rate: 0.32%
```

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

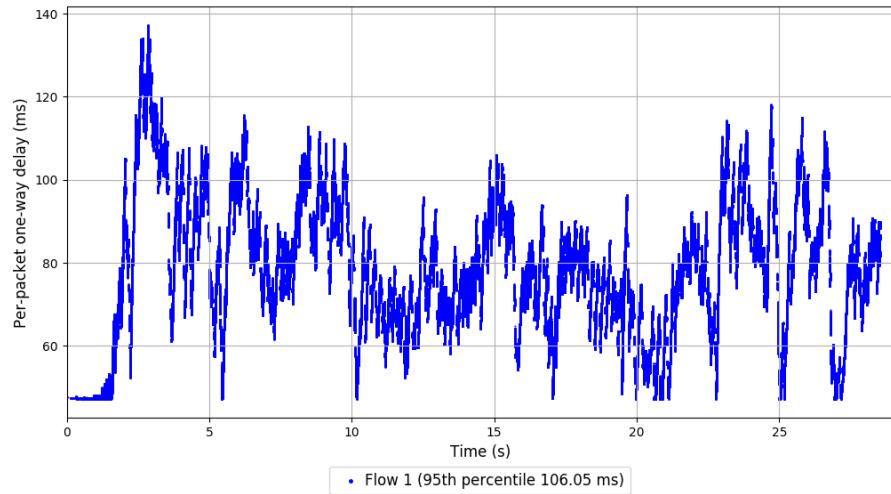
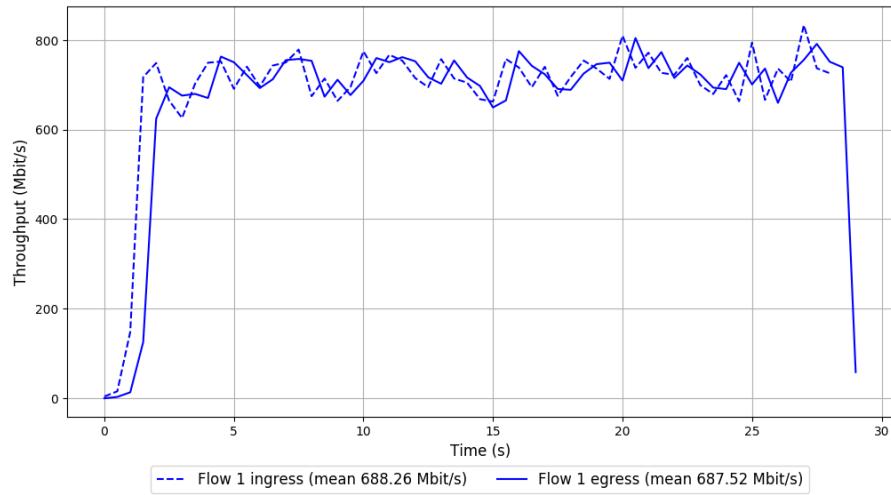


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 05:21:38
End at: 2019-01-18 05:22:08
Local clock offset: 0.103 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-01-18 08:37:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 687.52 Mbit/s
95th percentile per-packet one-way delay: 106.053 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 687.52 Mbit/s
95th percentile per-packet one-way delay: 106.053 ms
Loss rate: 0.10%
```

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

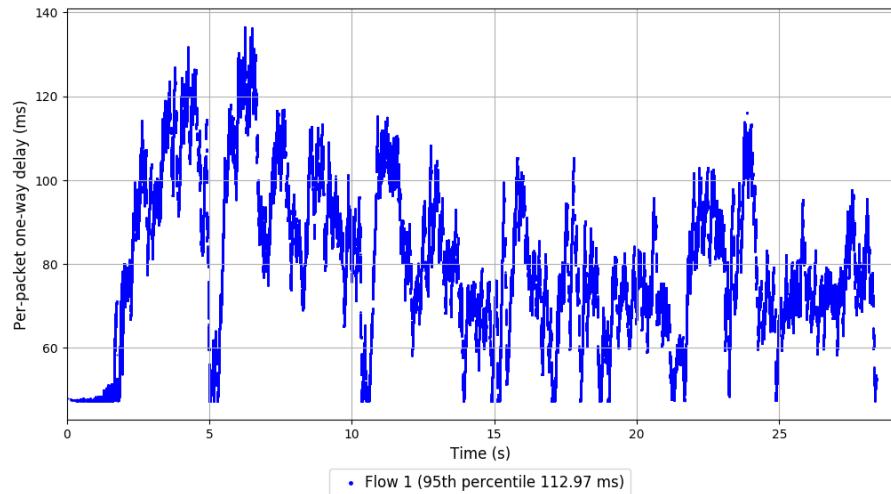
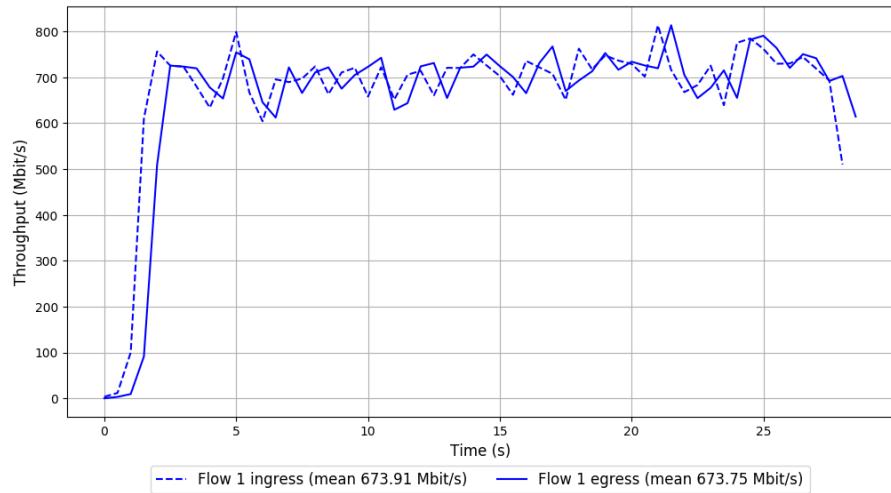


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 05:55:40
End at: 2019-01-18 05:56:10
Local clock offset: -0.016 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-01-18 08:38:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 673.75 Mbit/s
95th percentile per-packet one-way delay: 112.974 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 673.75 Mbit/s
95th percentile per-packet one-way delay: 112.974 ms
Loss rate: 0.03%
```

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

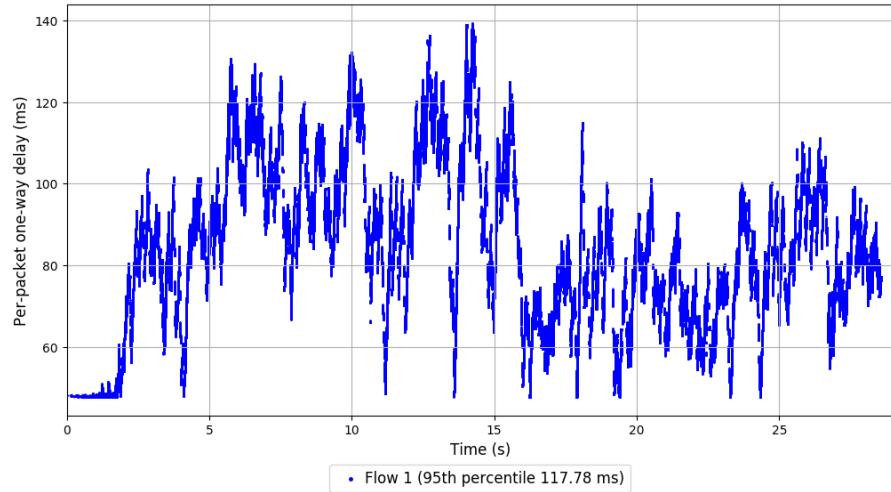
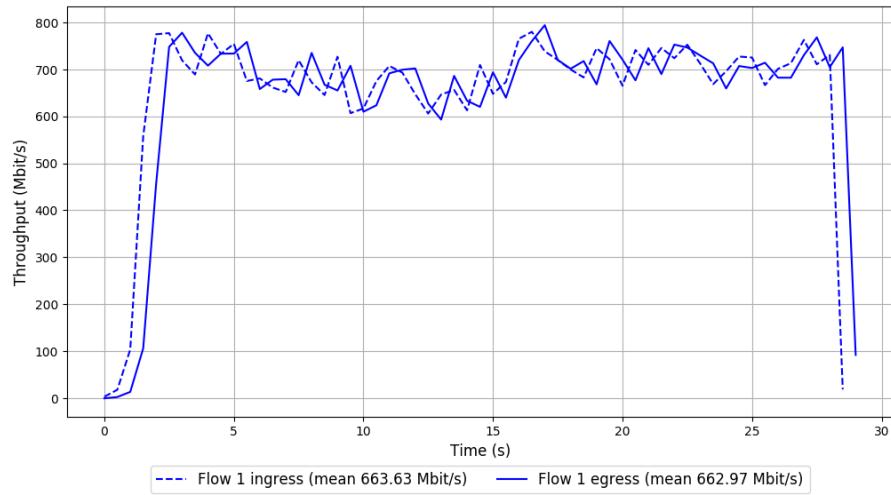


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 06:30:11
End at: 2019-01-18 06:30:42
Local clock offset: -0.388 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-01-18 08:39:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 662.97 Mbit/s
95th percentile per-packet one-way delay: 117.784 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 662.97 Mbit/s
95th percentile per-packet one-way delay: 117.784 ms
Loss rate: 0.10%
```

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

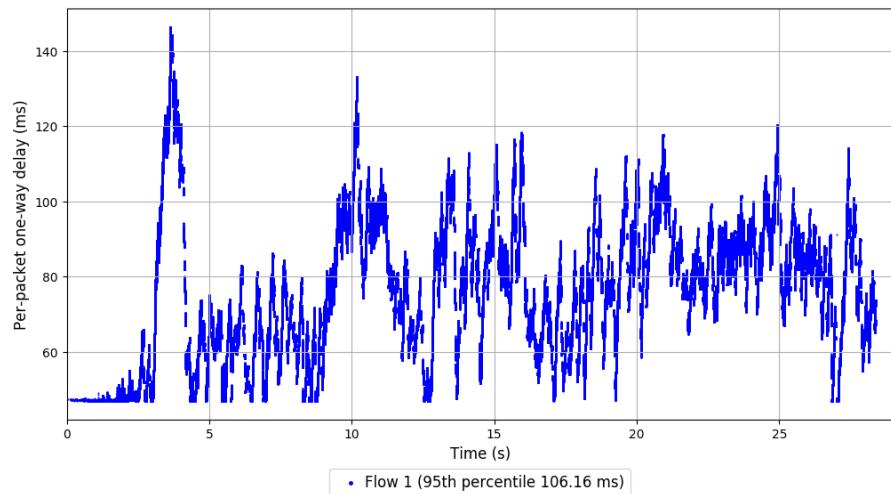
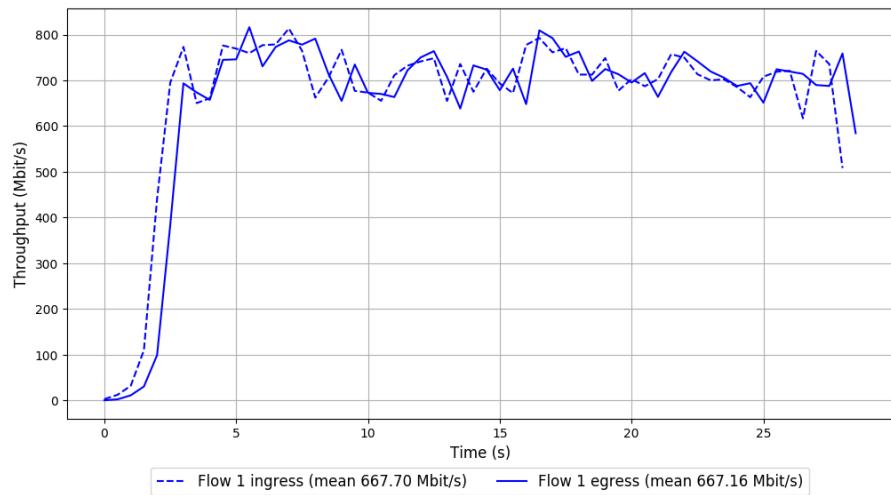


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 07:02:13
End at: 2019-01-18 07:02:43
Local clock offset: 0.067 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-01-18 08:39:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 667.16 Mbit/s
95th percentile per-packet one-way delay: 106.163 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 667.16 Mbit/s
95th percentile per-packet one-way delay: 106.163 ms
Loss rate: 0.08%
```

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

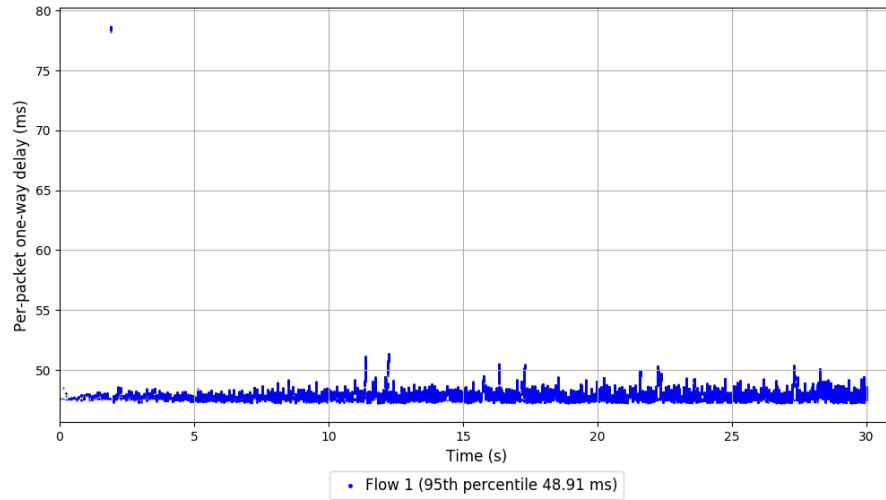
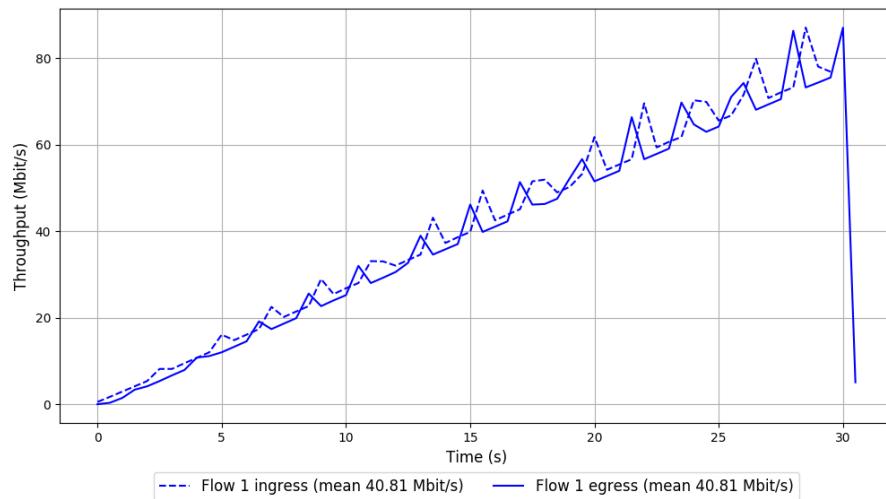


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-01-18 04:21:54
End at: 2019-01-18 04:22:24
Local clock offset: -0.103 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-01-18 08:39:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.81 Mbit/s
95th percentile per-packet one-way delay: 48.906 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.81 Mbit/s
95th percentile per-packet one-way delay: 48.906 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

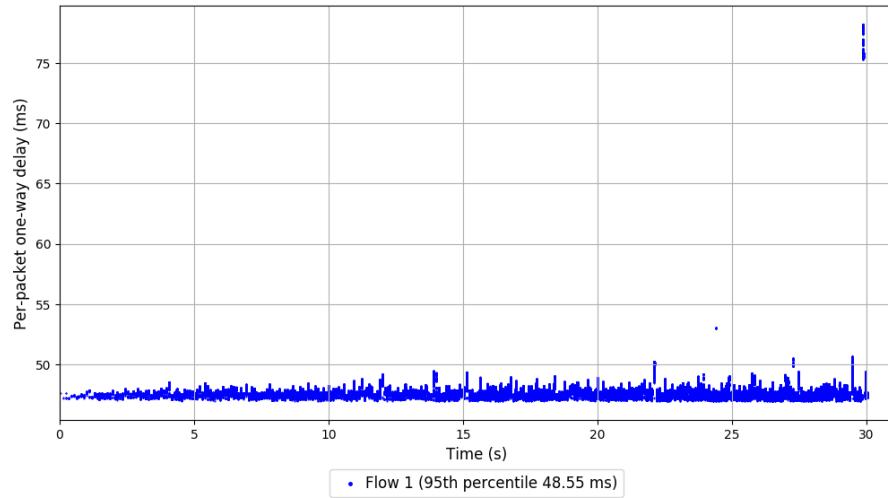
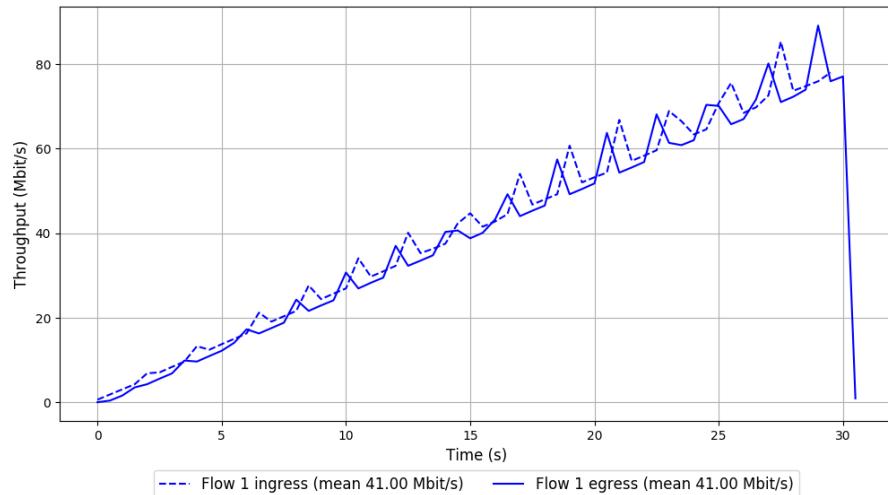


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-18 04:52:41
End at: 2019-01-18 04:53:11
Local clock offset: 0.295 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-01-18 08:39:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.00 Mbit/s
95th percentile per-packet one-way delay: 48.549 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.00 Mbit/s
95th percentile per-packet one-way delay: 48.549 ms
Loss rate: 0.00%
```

## Run 2: Report of LEDBAT — Data Link

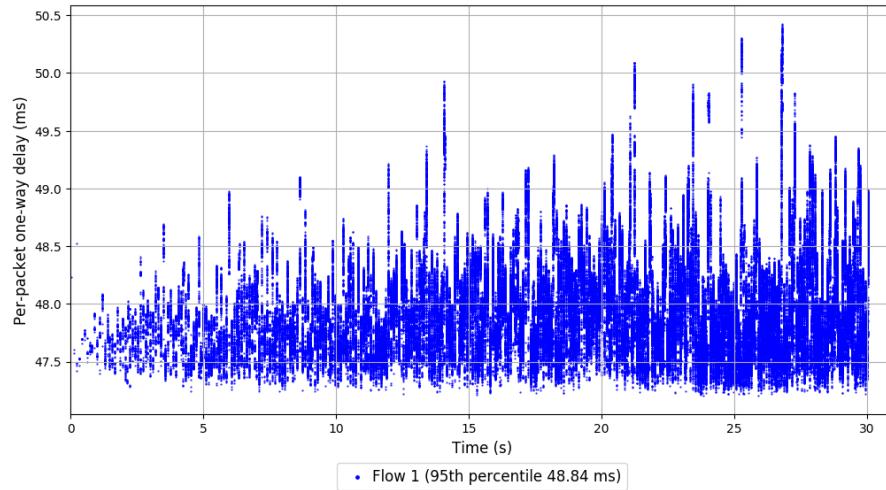
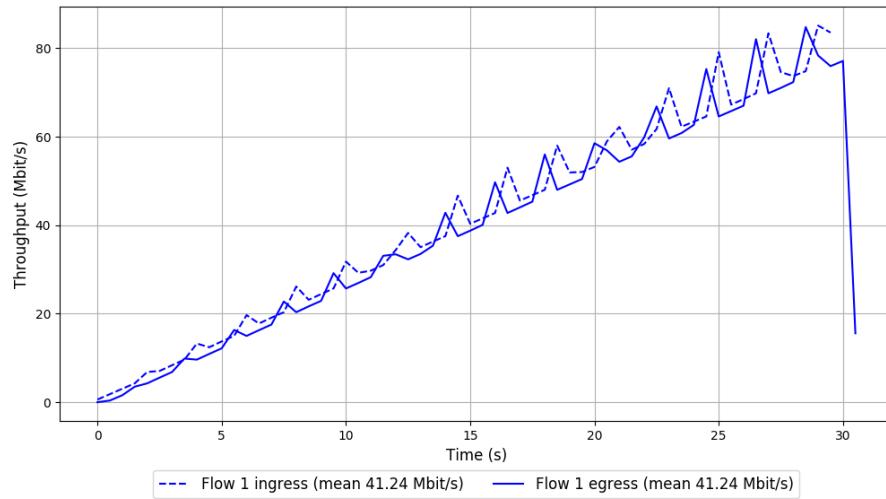


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-18 05:26:48
End at: 2019-01-18 05:27:18
Local clock offset: -0.05 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-01-18 08:39:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.24 Mbit/s
95th percentile per-packet one-way delay: 48.845 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.24 Mbit/s
95th percentile per-packet one-way delay: 48.845 ms
Loss rate: 0.00%
```

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

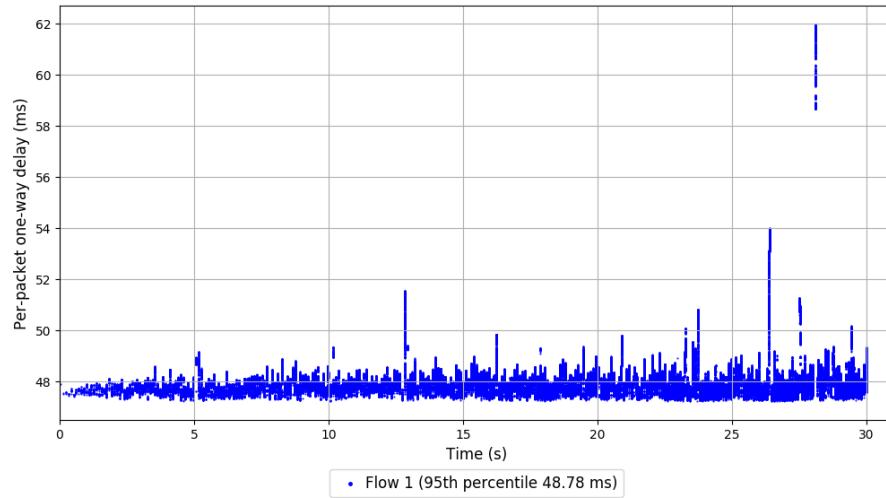
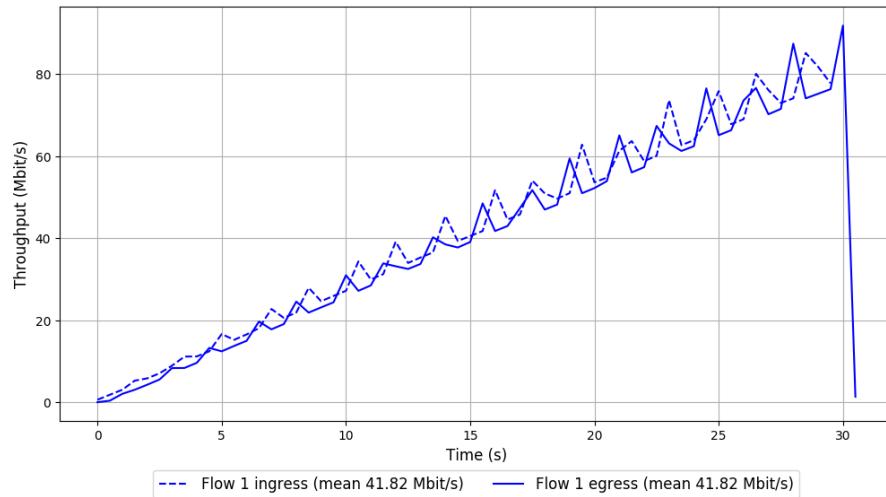


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-18 06:00:46
End at: 2019-01-18 06:01:16
Local clock offset: 0.046 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-01-18 08:39:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.82 Mbit/s
95th percentile per-packet one-way delay: 48.778 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.82 Mbit/s
95th percentile per-packet one-way delay: 48.778 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

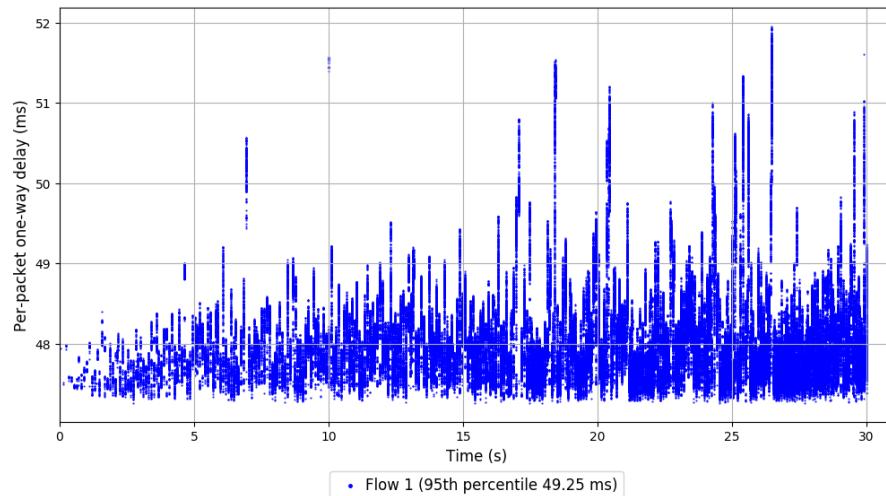
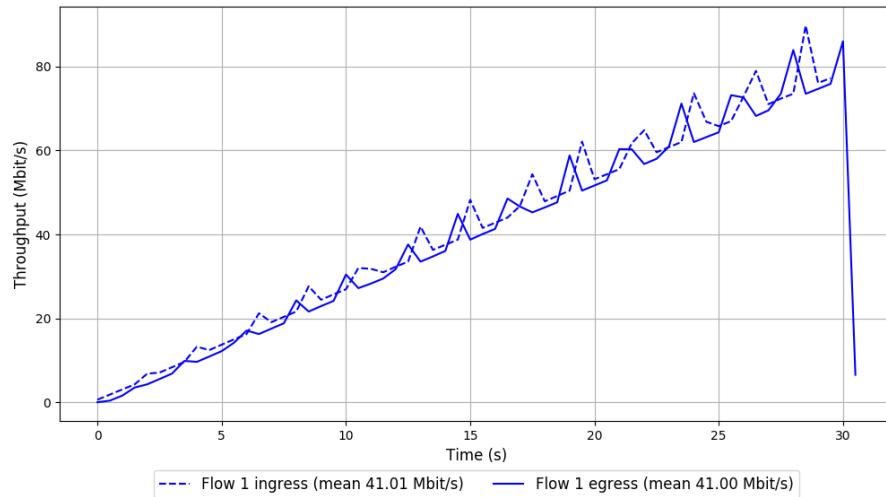


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-18 06:35:07
End at: 2019-01-18 06:35:37
Local clock offset: 0.042 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-01-18 08:39:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.00 Mbit/s
95th percentile per-packet one-way delay: 49.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.00 Mbit/s
95th percentile per-packet one-way delay: 49.254 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

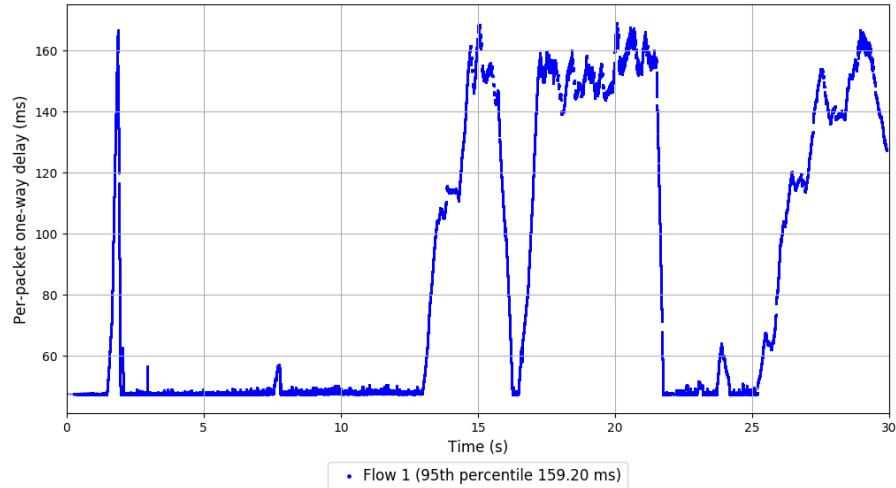
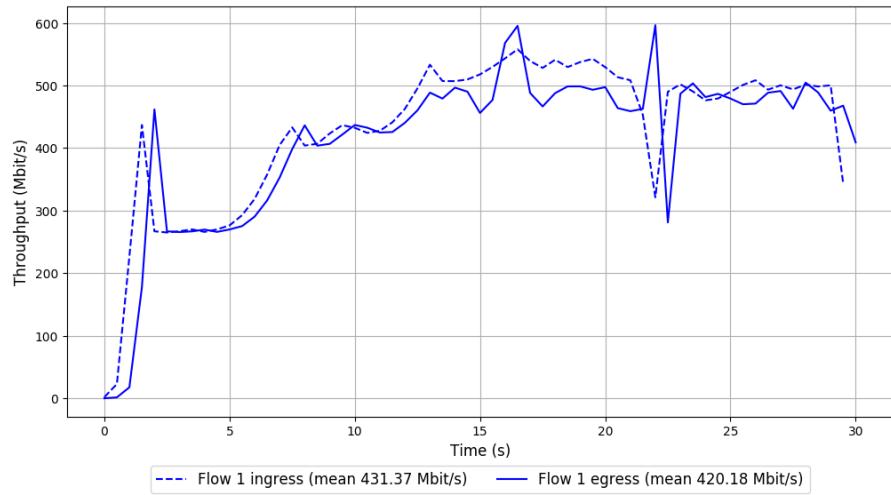


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-18 04:31:51
End at: 2019-01-18 04:32:21
Local clock offset: -0.14 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-01-18 08:47:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 420.18 Mbit/s
95th percentile per-packet one-way delay: 159.202 ms
Loss rate: 2.59%
-- Flow 1:
Average throughput: 420.18 Mbit/s
95th percentile per-packet one-way delay: 159.202 ms
Loss rate: 2.59%
```

Run 1: Report of PCC-Allegro — Data Link

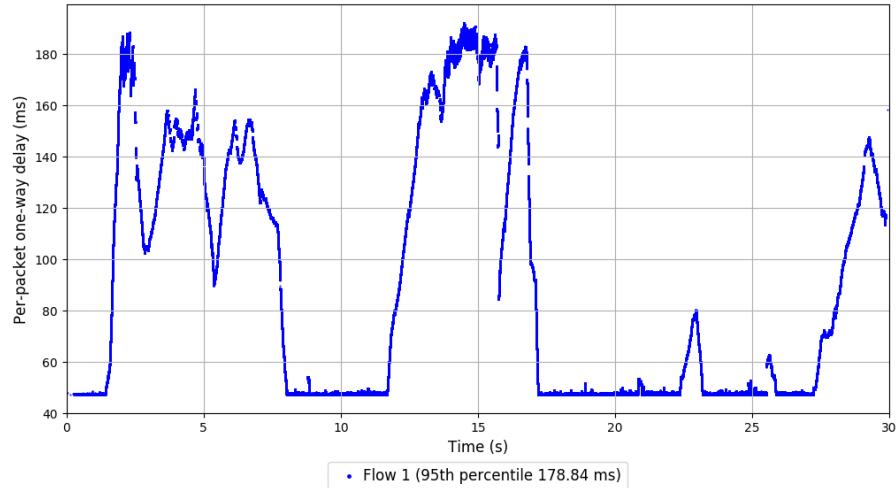
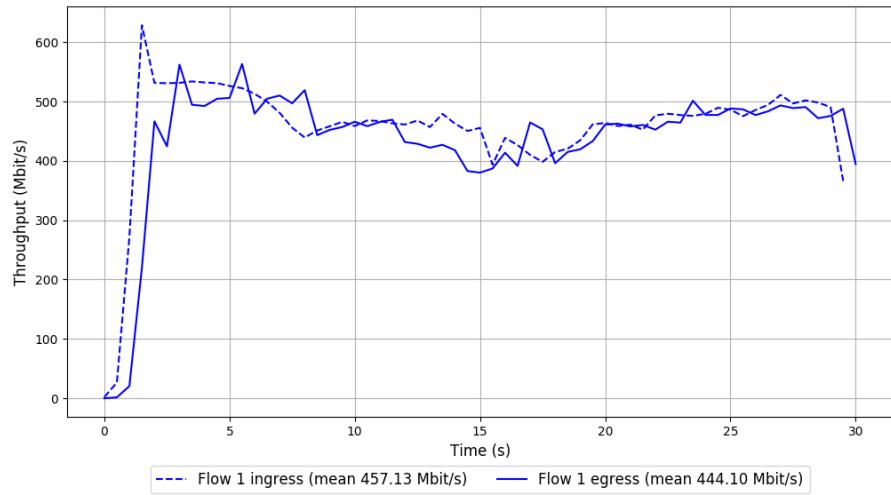


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-18 05:03:10
End at: 2019-01-18 05:03:40
Local clock offset: -0.072 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-01-18 08:51:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 444.10 Mbit/s
95th percentile per-packet one-way delay: 178.839 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 444.10 Mbit/s
95th percentile per-packet one-way delay: 178.839 ms
Loss rate: 2.85%
```

Run 2: Report of PCC-Allegro — Data Link

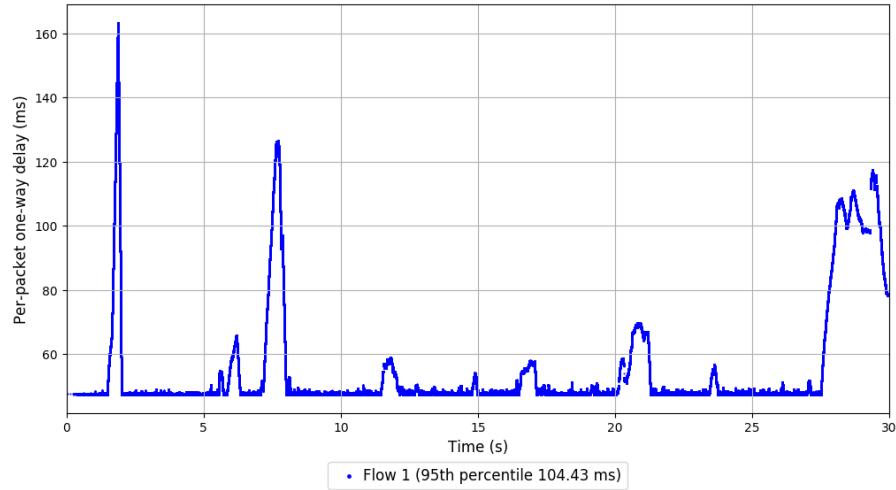
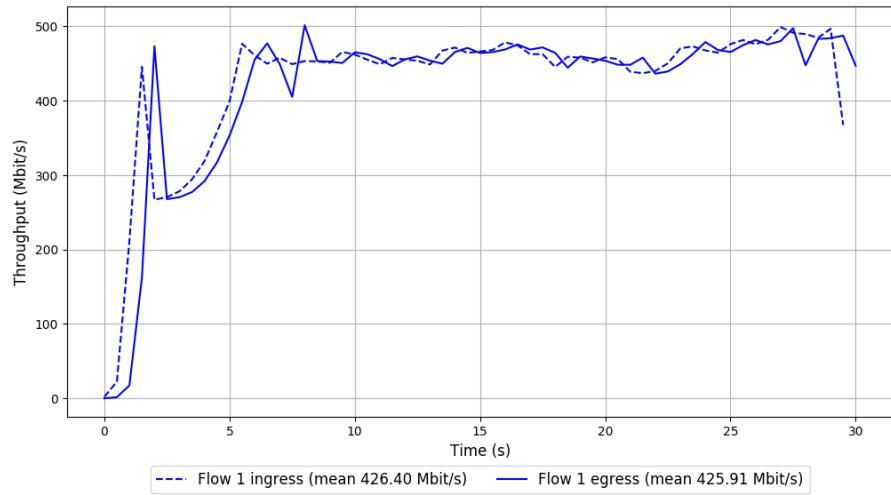


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-18 05:37:30
End at: 2019-01-18 05:38:00
Local clock offset: -0.056 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-01-18 08:51:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 425.91 Mbit/s
95th percentile per-packet one-way delay: 104.431 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 425.91 Mbit/s
95th percentile per-packet one-way delay: 104.431 ms
Loss rate: 0.11%
```

Run 3: Report of PCC-Allegro — Data Link

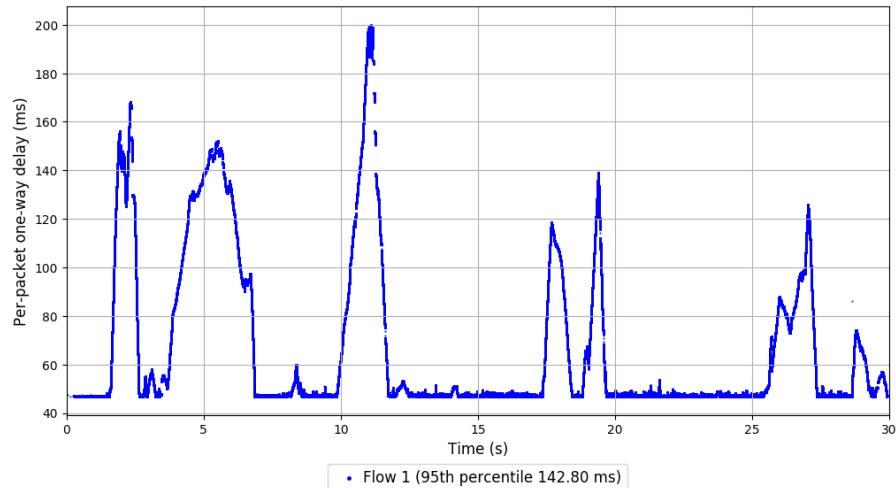
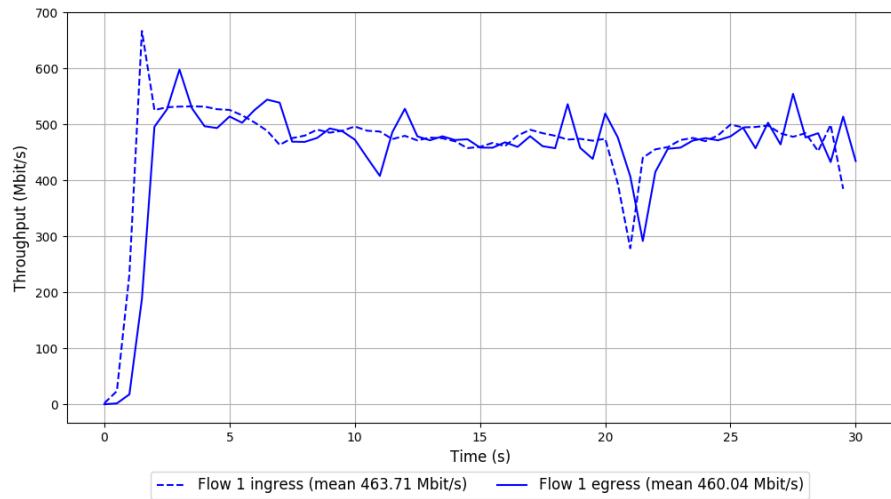


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-18 06:11:51
End at: 2019-01-18 06:12:21
Local clock offset: 0.52 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-01-18 08:53:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 460.04 Mbit/s
95th percentile per-packet one-way delay: 142.798 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 460.04 Mbit/s
95th percentile per-packet one-way delay: 142.798 ms
Loss rate: 0.79%
```

Run 4: Report of PCC-Allegro — Data Link

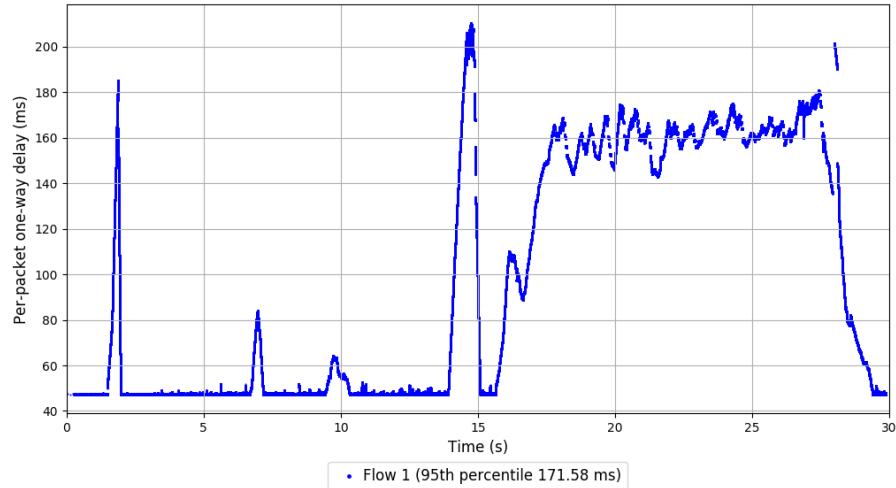
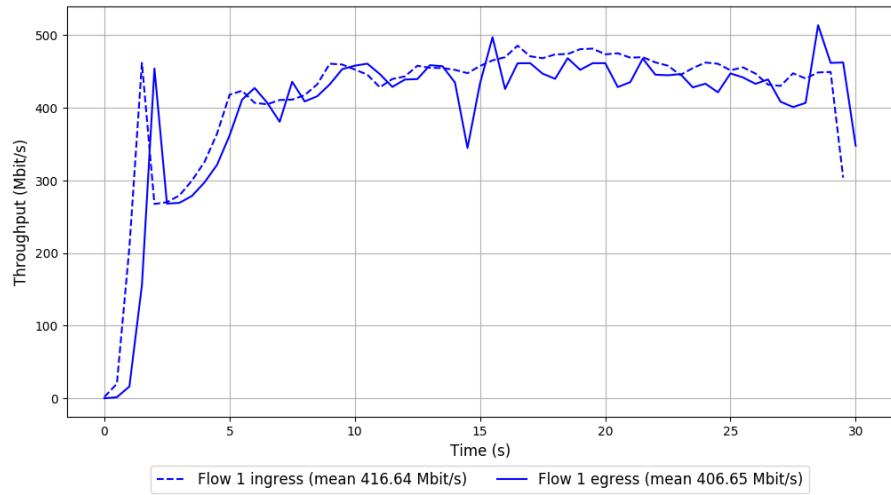


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-18 06:45:27
End at: 2019-01-18 06:45:57
Local clock offset: 0.189 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-01-18 08:53:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 406.65 Mbit/s
95th percentile per-packet one-way delay: 171.579 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 406.65 Mbit/s
95th percentile per-packet one-way delay: 171.579 ms
Loss rate: 2.40%
```

Run 5: Report of PCC-Allegro — Data Link

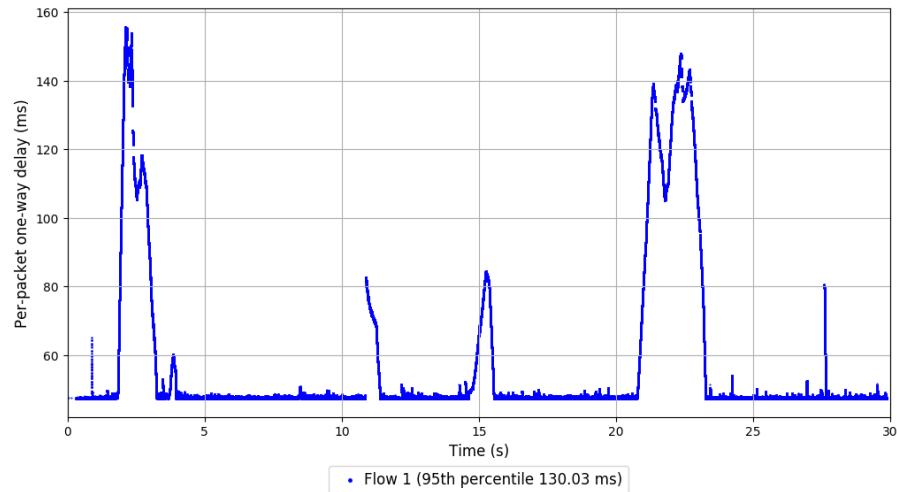
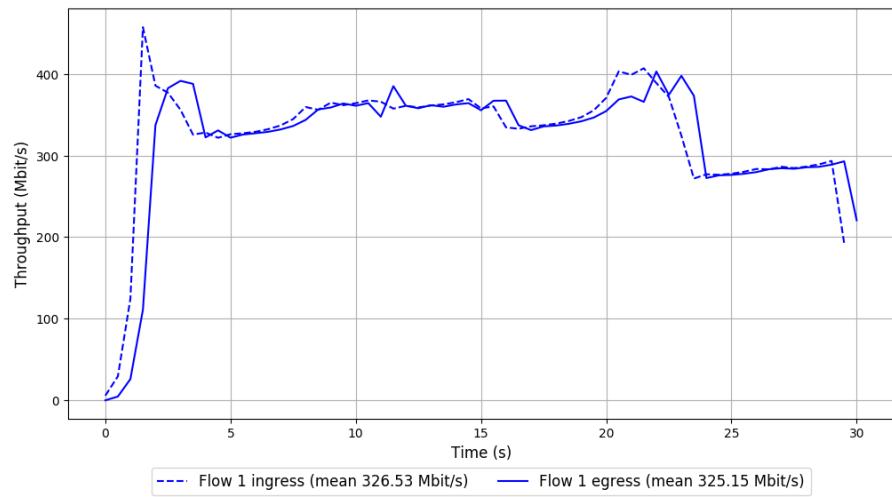


```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-18 04:42:22
End at: 2019-01-18 04:42:52
Local clock offset: -0.093 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-01-18 08:53:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.15 Mbit/s
95th percentile per-packet one-way delay: 130.026 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 325.15 Mbit/s
95th percentile per-packet one-way delay: 130.026 ms
Loss rate: 0.42%
```

Run 1: Report of PCC-Expr — Data Link

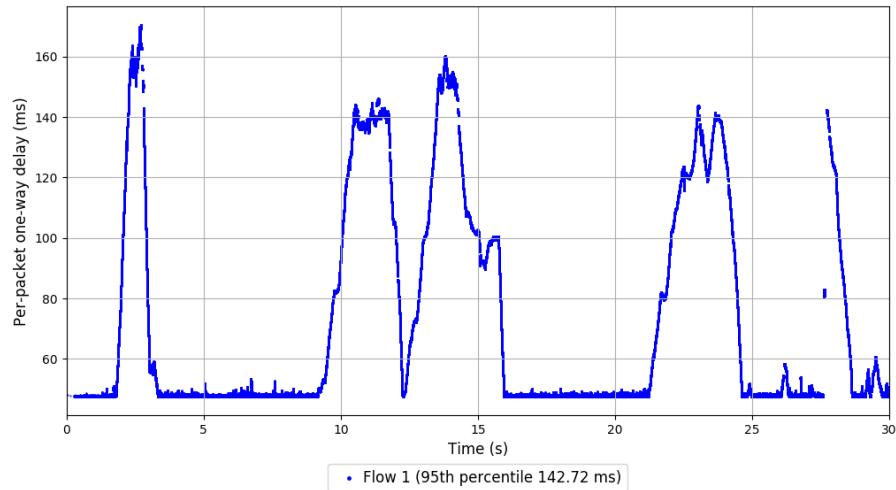
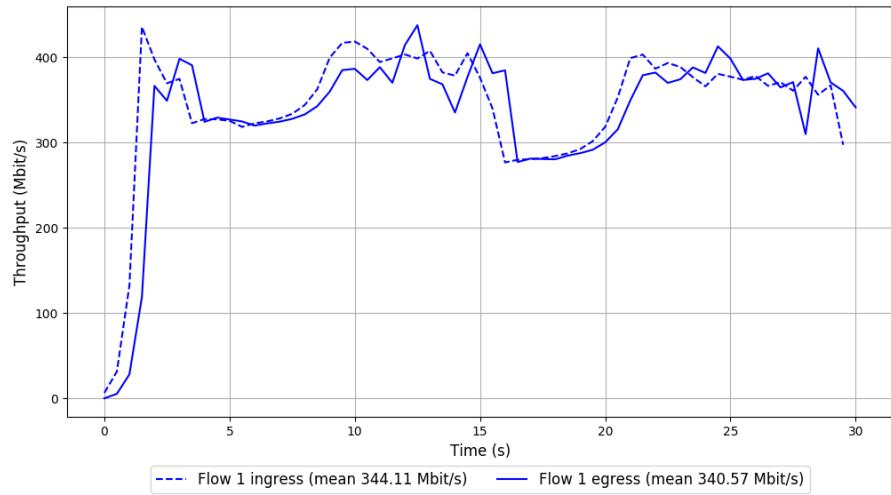


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-18 05:15:09
End at: 2019-01-18 05:15:39
Local clock offset: -0.02 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-01-18 08:53:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 340.57 Mbit/s
95th percentile per-packet one-way delay: 142.720 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 340.57 Mbit/s
95th percentile per-packet one-way delay: 142.720 ms
Loss rate: 1.03%
```

Run 2: Report of PCC-Expr — Data Link

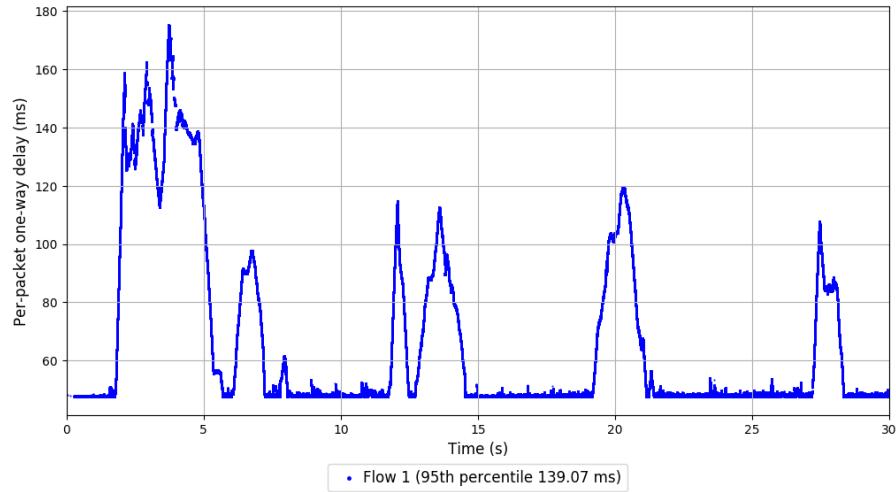
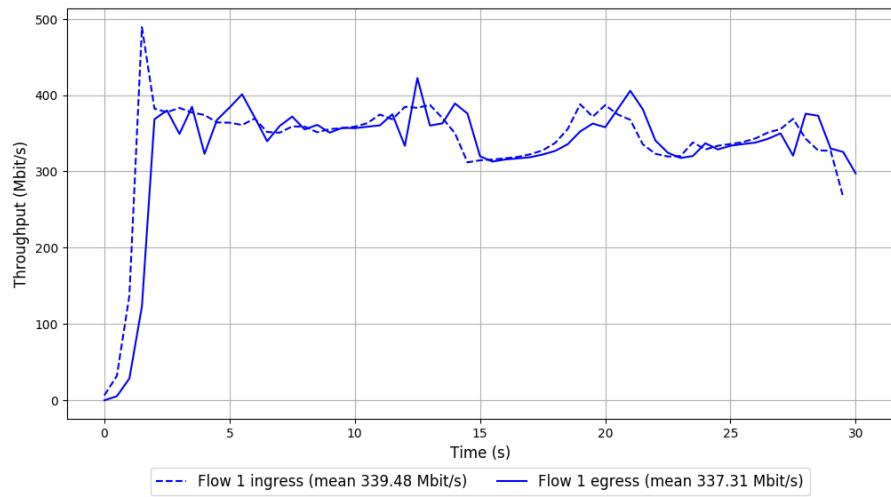


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-18 05:49:20
End at: 2019-01-18 05:49:51
Local clock offset: -0.381 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-01-18 08:53:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.31 Mbit/s
95th percentile per-packet one-way delay: 139.069 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 337.31 Mbit/s
95th percentile per-packet one-way delay: 139.069 ms
Loss rate: 0.64%
```

Run 3: Report of PCC-Expr — Data Link

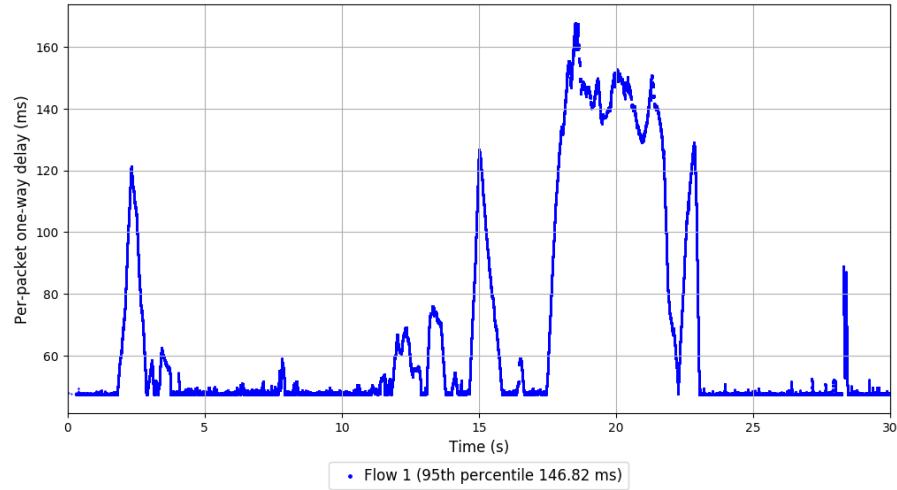
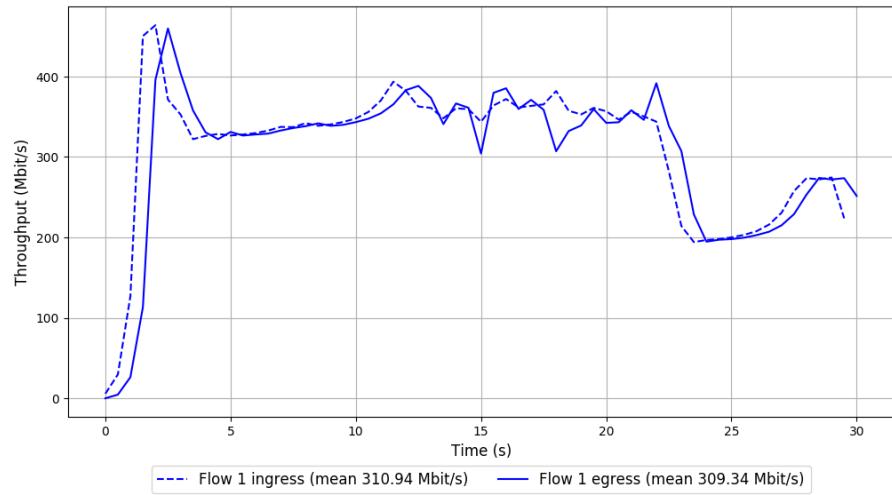


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-18 06:23:55
End at: 2019-01-18 06:24:25
Local clock offset: -0.056 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-01-18 08:58:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 309.34 Mbit/s
95th percentile per-packet one-way delay: 146.824 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 309.34 Mbit/s
95th percentile per-packet one-way delay: 146.824 ms
Loss rate: 0.52%
```

Run 4: Report of PCC-Expr — Data Link

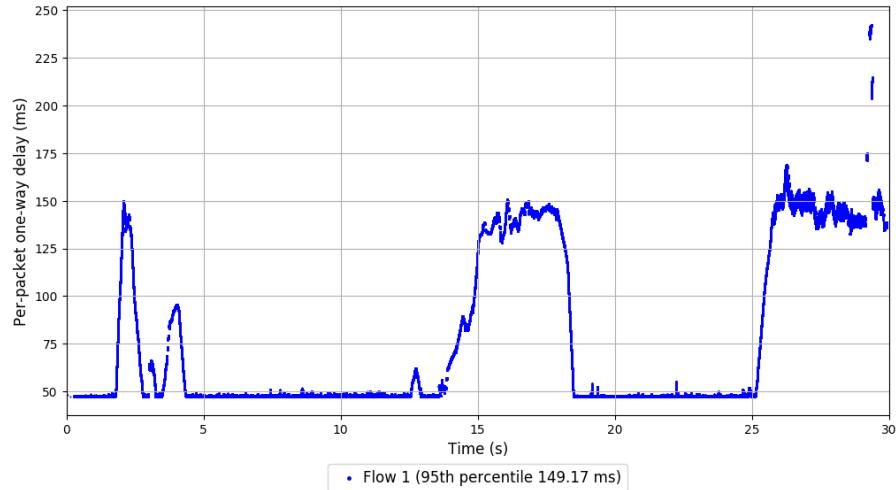
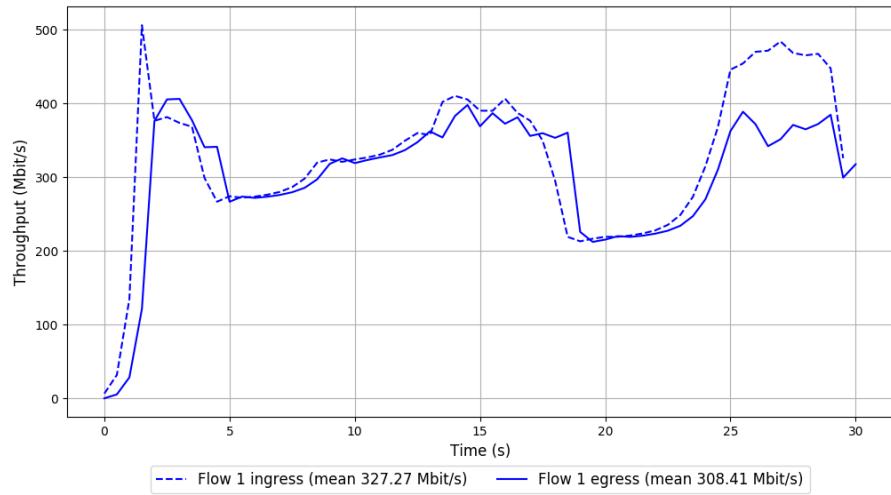


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-18 06:56:17
End at: 2019-01-18 06:56:47
Local clock offset: -0.054 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-01-18 09:02:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 308.41 Mbit/s
95th percentile per-packet one-way delay: 149.167 ms
Loss rate: 5.76%
-- Flow 1:
Average throughput: 308.41 Mbit/s
95th percentile per-packet one-way delay: 149.167 ms
Loss rate: 5.76%
```

Run 5: Report of PCC-Expr — Data Link

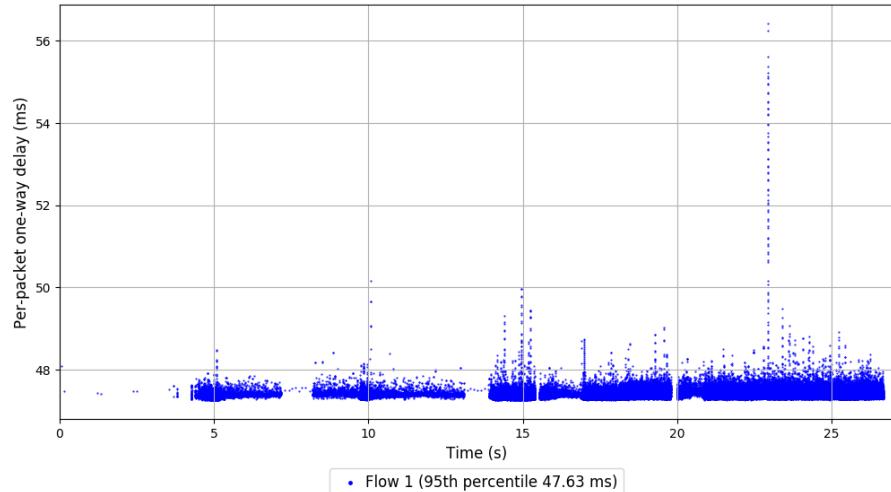
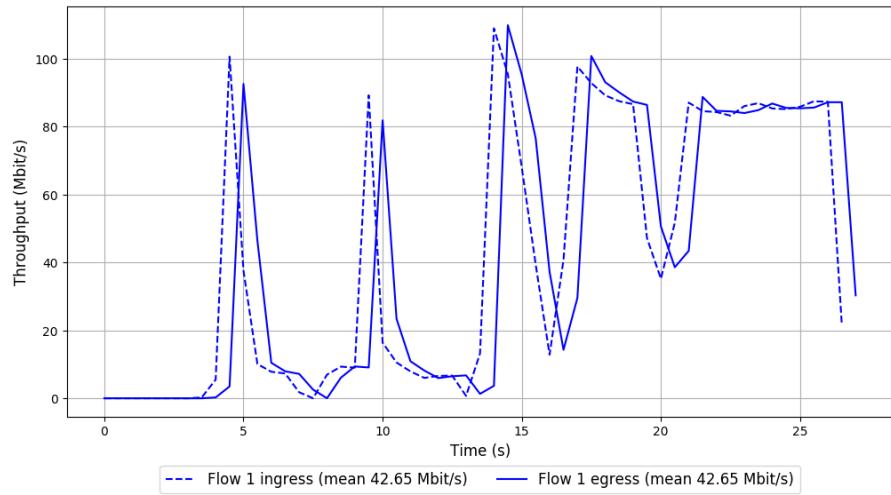


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-01-18 04:30:42
End at: 2019-01-18 04:31:12
Local clock offset: -0.169 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-01-18 09:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.65 Mbit/s
95th percentile per-packet one-way delay: 47.628 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.65 Mbit/s
95th percentile per-packet one-way delay: 47.628 ms
Loss rate: 0.00%
```

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

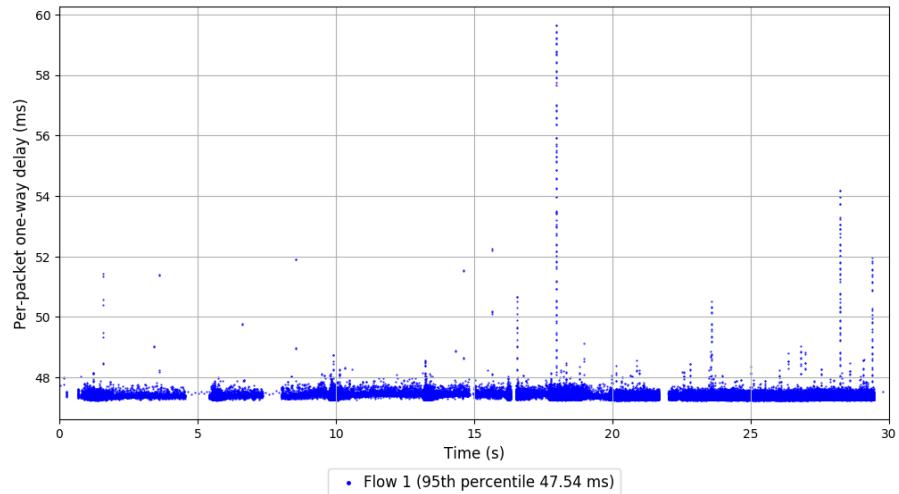
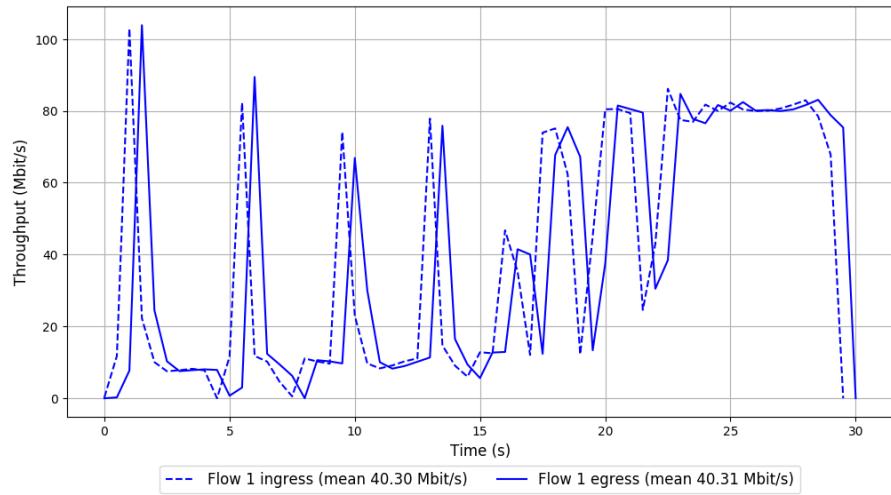


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-18 05:02:00
End at: 2019-01-18 05:02:30
Local clock offset: -0.064 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-01-18 09:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.31 Mbit/s
95th percentile per-packet one-way delay: 47.543 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.31 Mbit/s
95th percentile per-packet one-way delay: 47.543 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

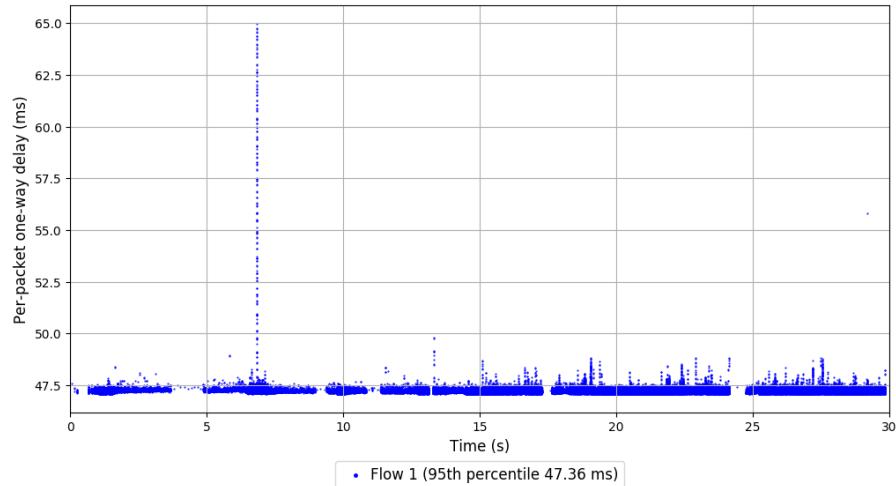
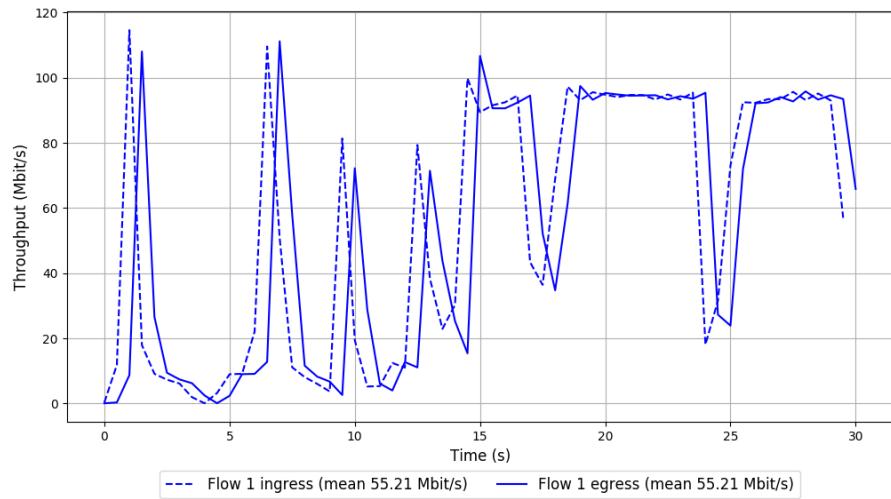


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-18 05:36:18
End at: 2019-01-18 05:36:48
Local clock offset: 0.124 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-01-18 09:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.21 Mbit/s
95th percentile per-packet one-way delay: 47.356 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.21 Mbit/s
95th percentile per-packet one-way delay: 47.356 ms
Loss rate: 0.00%
```

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

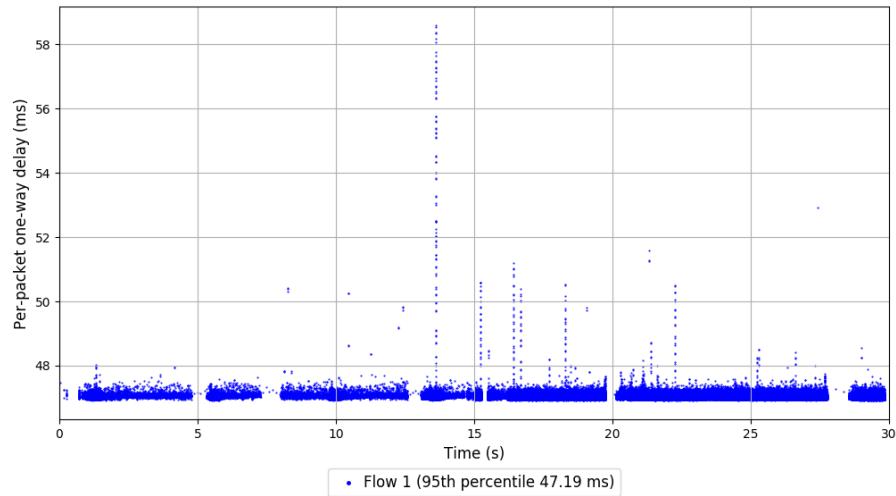
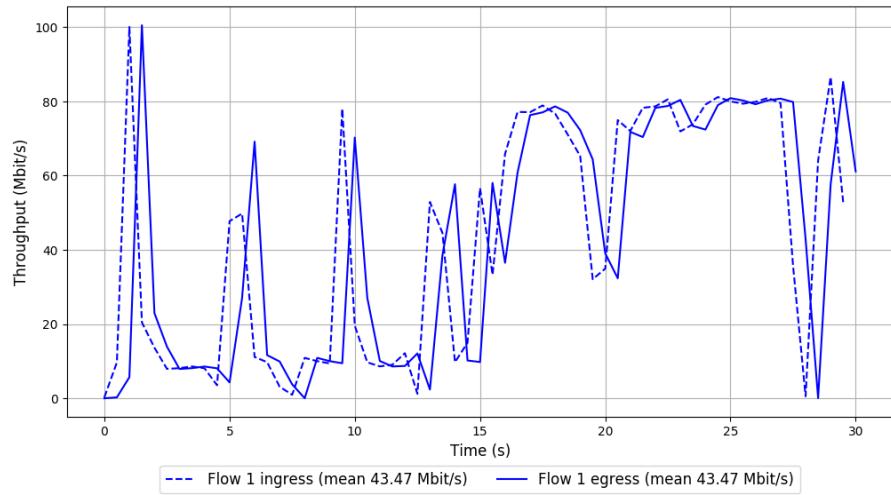


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-18 06:10:40
End at: 2019-01-18 06:11:10
Local clock offset: 0.352 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-01-18 09:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.47 Mbit/s
95th percentile per-packet one-way delay: 47.191 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.47 Mbit/s
95th percentile per-packet one-way delay: 47.191 ms
Loss rate: 0.00%
```

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

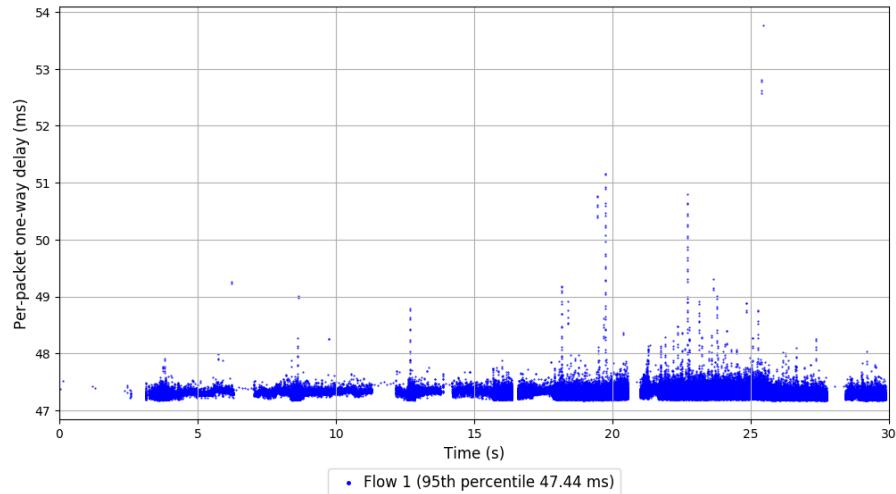
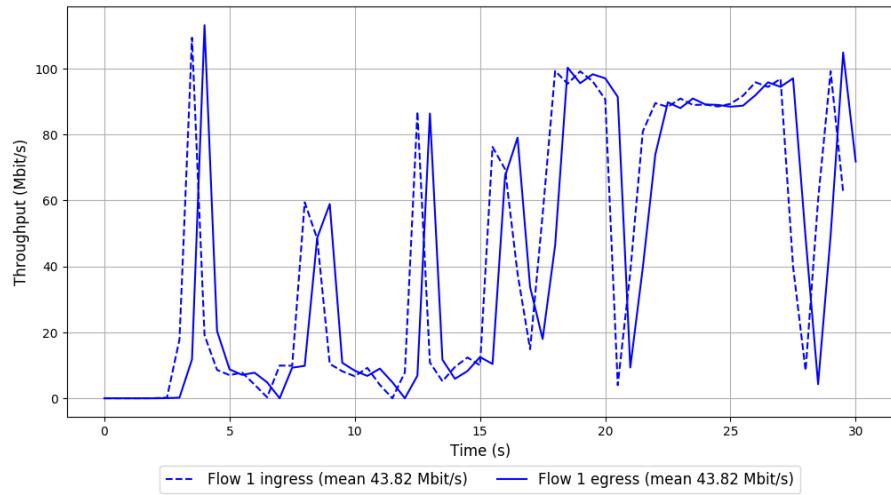


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-18 06:44:17
End at: 2019-01-18 06:44:47
Local clock offset: -0.026 ms
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-01-18 09:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.82 Mbit/s
95th percentile per-packet one-way delay: 47.439 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.82 Mbit/s
95th percentile per-packet one-way delay: 47.439 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

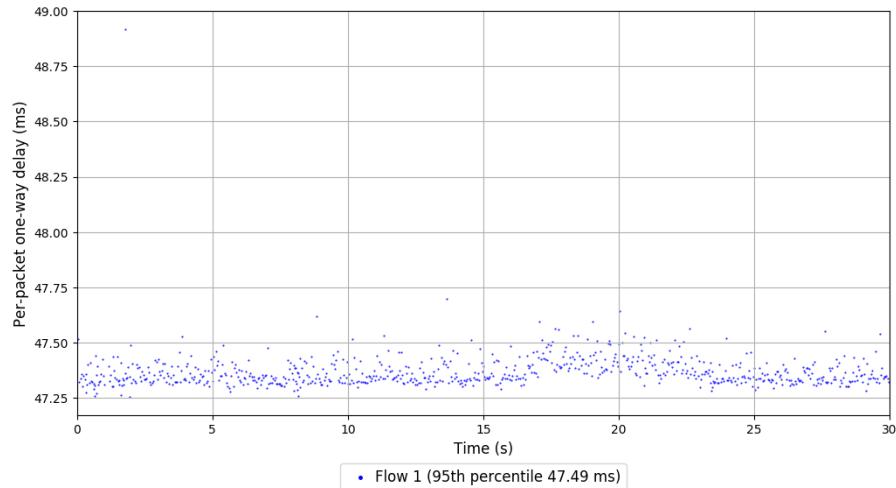
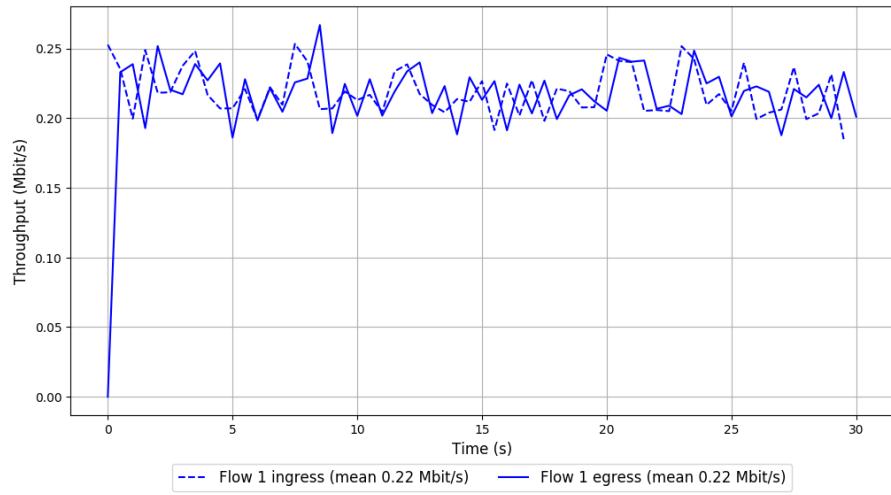


Run 1: Statistics of SCReAM

```
Start at: 2019-01-18 04:24:38
End at: 2019-01-18 04:25:08
Local clock offset: 0.013 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-01-18 09:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.487 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

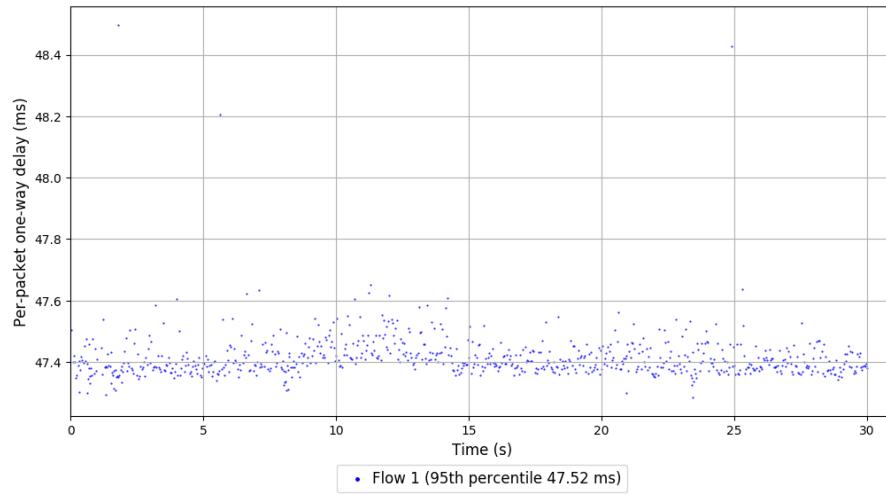
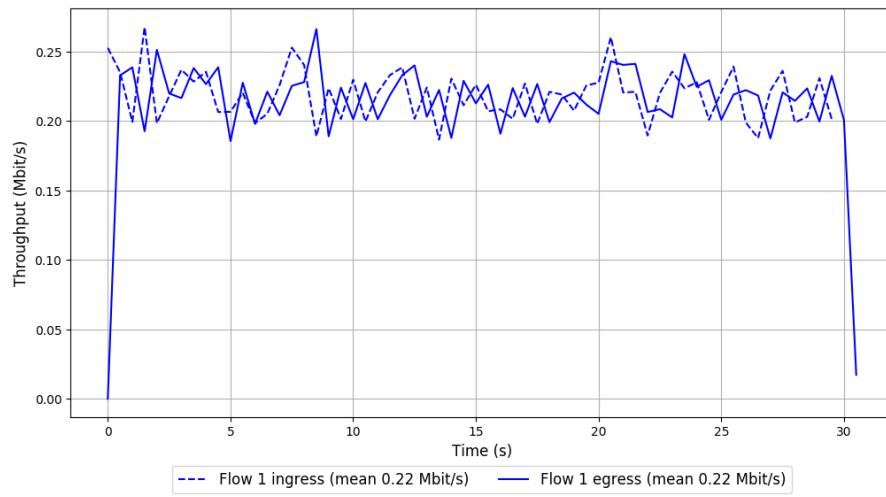


Run 2: Statistics of SCReAM

```
Start at: 2019-01-18 04:55:22
End at: 2019-01-18 04:55:52
Local clock offset: 0.022 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-01-18 09:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.525 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.525 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

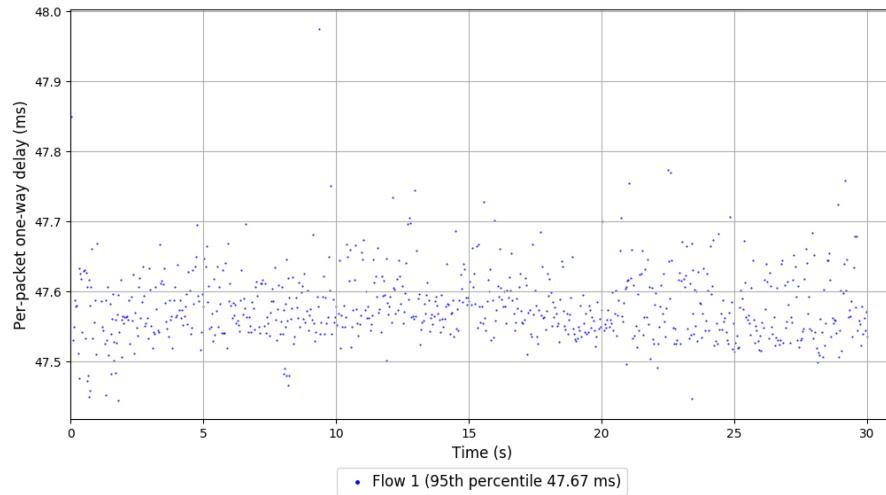
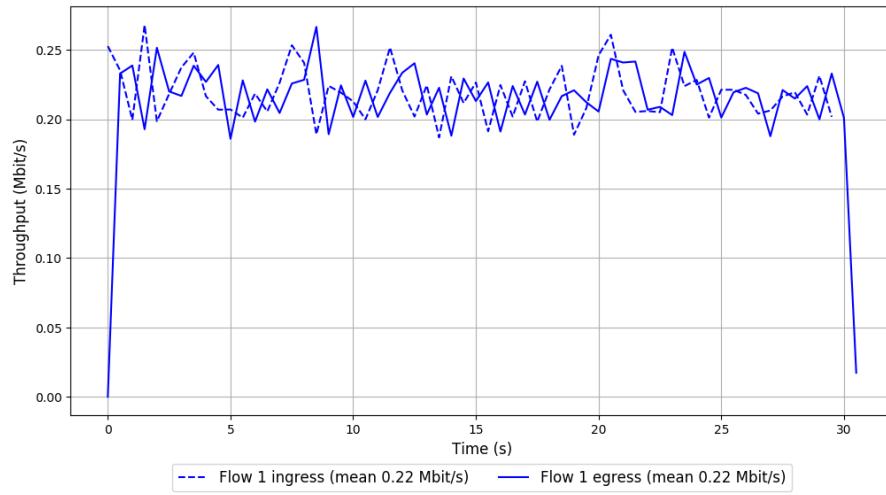


Run 3: Statistics of SCReAM

```
Start at: 2019-01-18 05:29:29
End at: 2019-01-18 05:29:59
Local clock offset: -0.06 ms
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2019-01-18 09:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.666 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.666 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

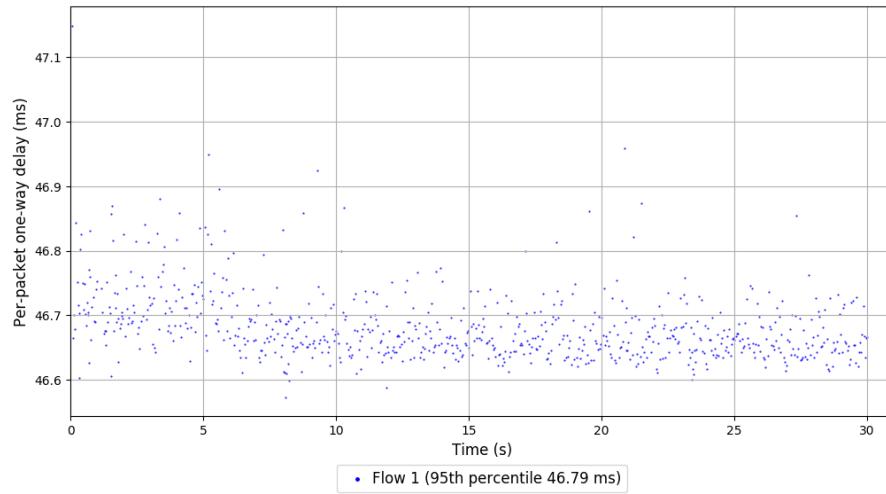
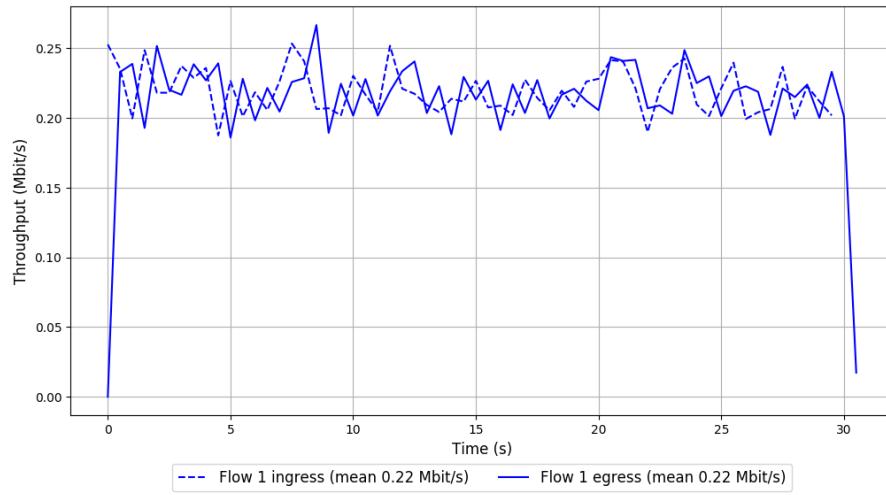


Run 4: Statistics of SCReAM

```
Start at: 2019-01-18 06:03:48
End at: 2019-01-18 06:04:18
Local clock offset: -0.045 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-01-18 09:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.789 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.789 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

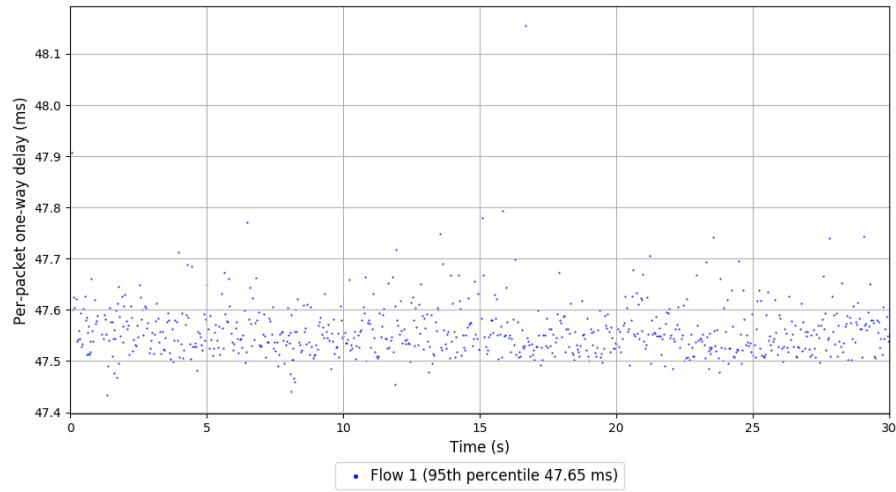
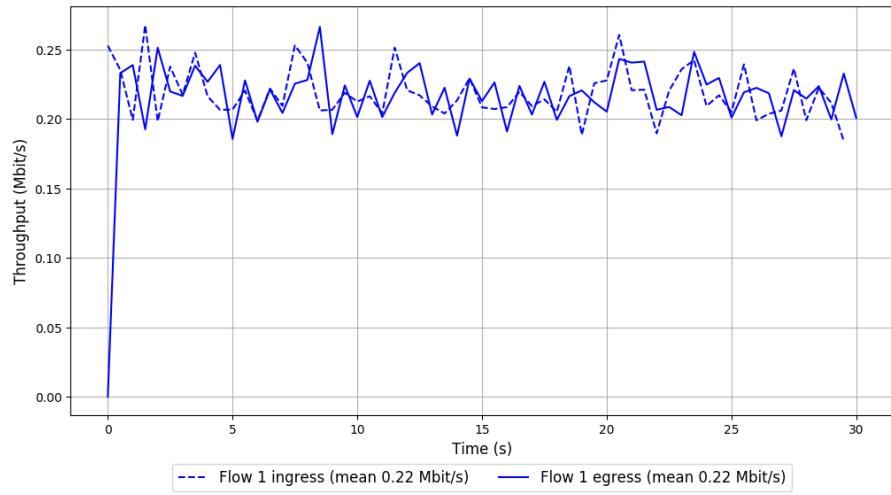


Run 5: Statistics of SCReAM

```
Start at: 2019-01-18 06:38:10
End at: 2019-01-18 06:38:40
Local clock offset: 0.004 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-01-18 09:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.650 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

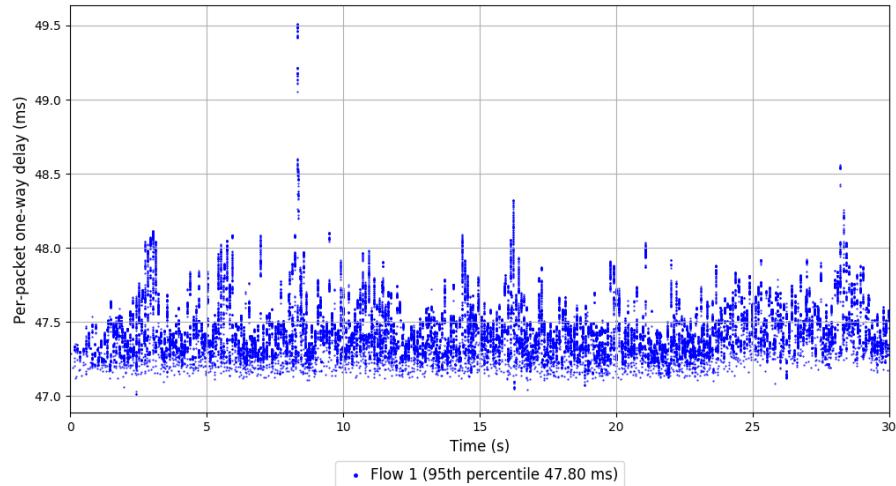
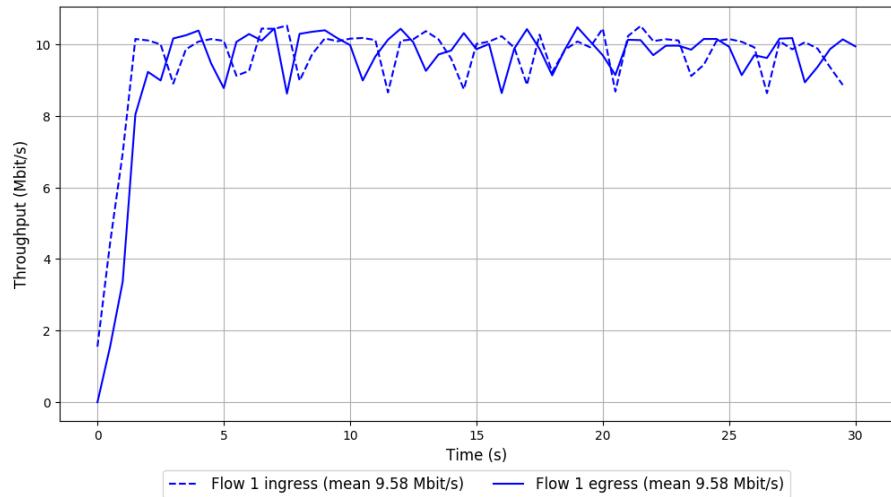


Run 1: Statistics of Sprout

```
Start at: 2019-01-18 04:36:40
End at: 2019-01-18 04:37:10
Local clock offset: 0.229 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-01-18 09:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.58 Mbit/s
95th percentile per-packet one-way delay: 47.800 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.58 Mbit/s
95th percentile per-packet one-way delay: 47.800 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

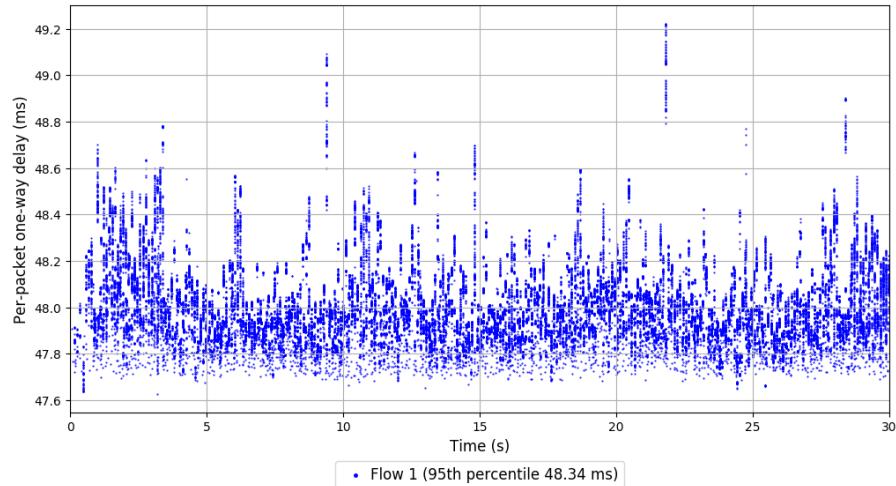
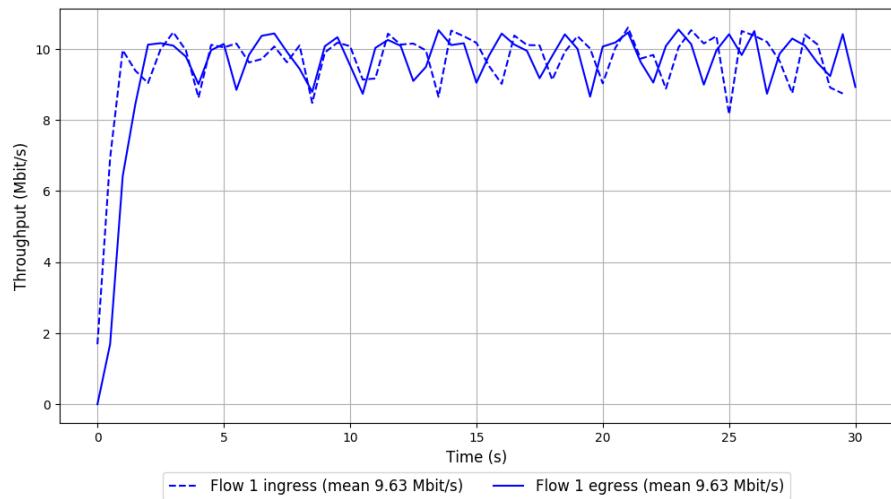


Run 2: Statistics of Sprout

```
Start at: 2019-01-18 05:08:49
End at: 2019-01-18 05:09:19
Local clock offset: -0.343 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-01-18 09:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.63 Mbit/s
95th percentile per-packet one-way delay: 48.335 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.63 Mbit/s
95th percentile per-packet one-way delay: 48.335 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link

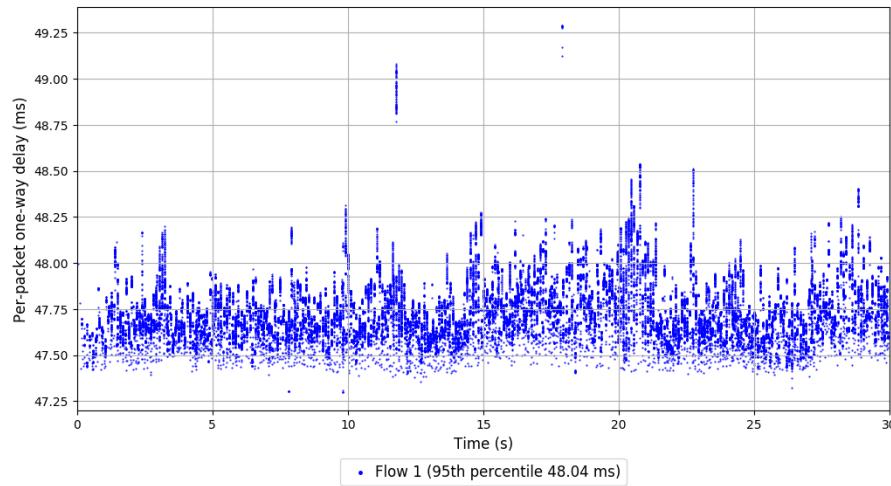
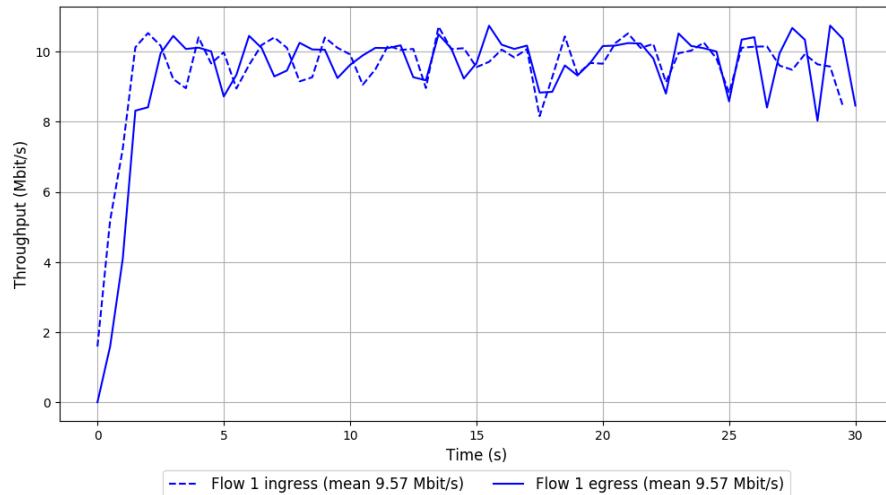


Run 3: Statistics of Sprout

```
Start at: 2019-01-18 05:43:10
End at: 2019-01-18 05:43:40
Local clock offset: -0.019 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-01-18 09:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 48.039 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 48.039 ms
Loss rate: 0.00%
```

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

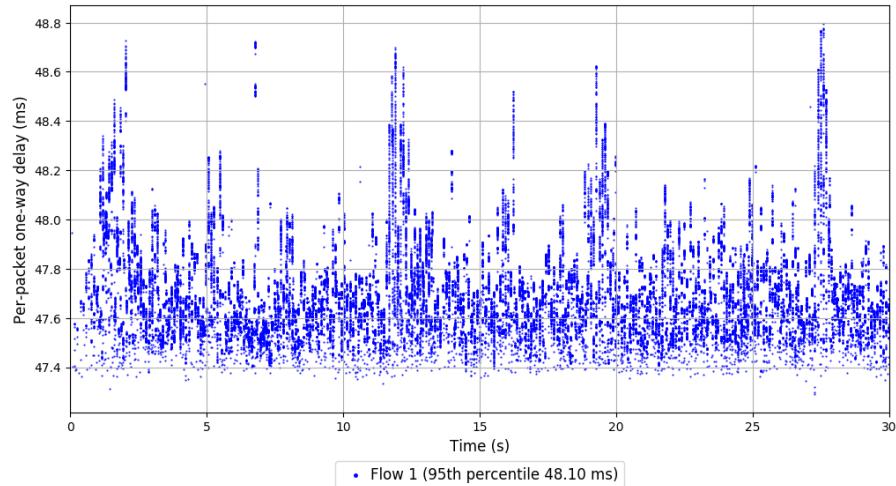
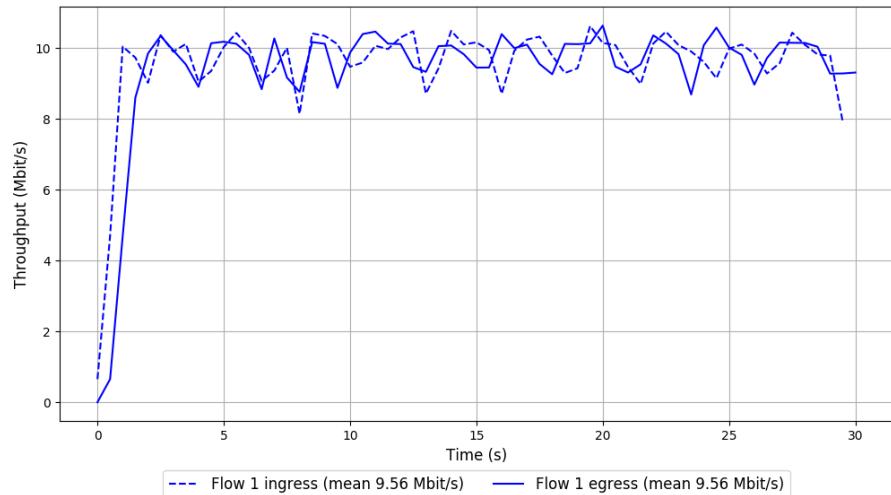


Run 4: Statistics of Sprout

```
Start at: 2019-01-18 06:17:28
End at: 2019-01-18 06:17:59
Local clock offset: -0.002 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-01-18 09:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 48.101 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 48.101 ms
Loss rate: 0.00%
```

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

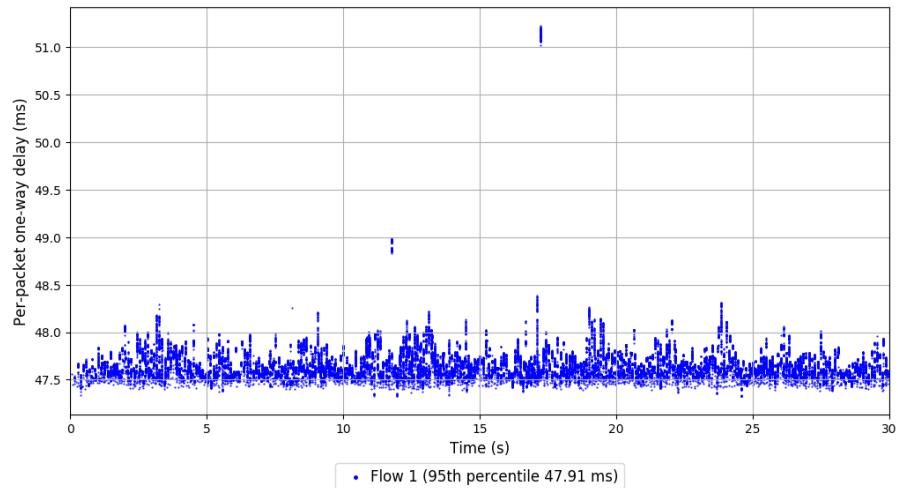
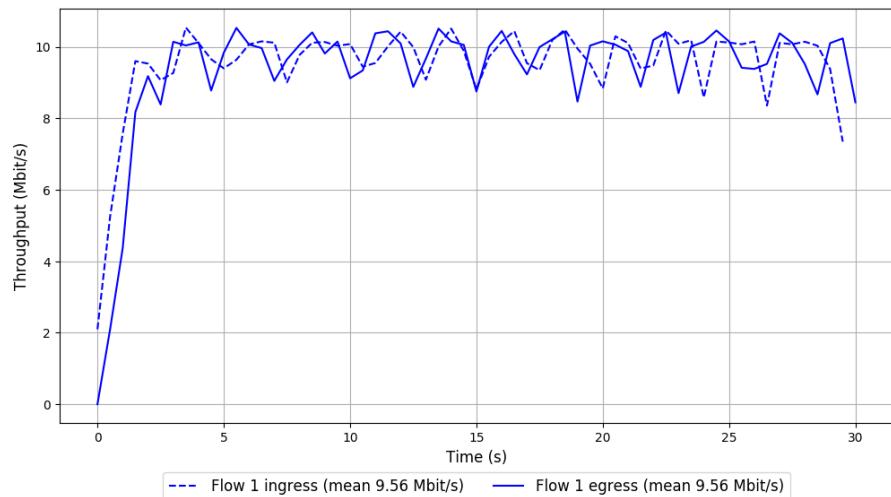


Run 5: Statistics of Sprout

```
Start at: 2019-01-18 06:50:27
End at: 2019-01-18 06:50:57
Local clock offset: 0.022 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-01-18 09:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 47.905 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 47.905 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

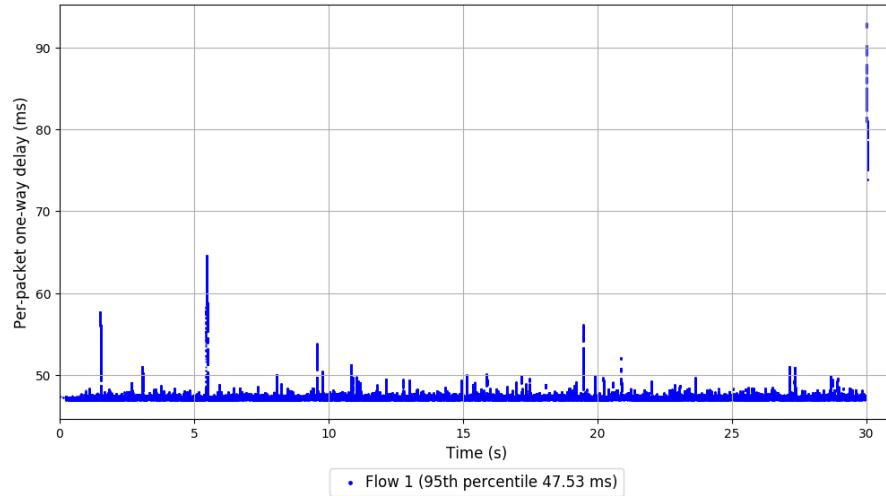
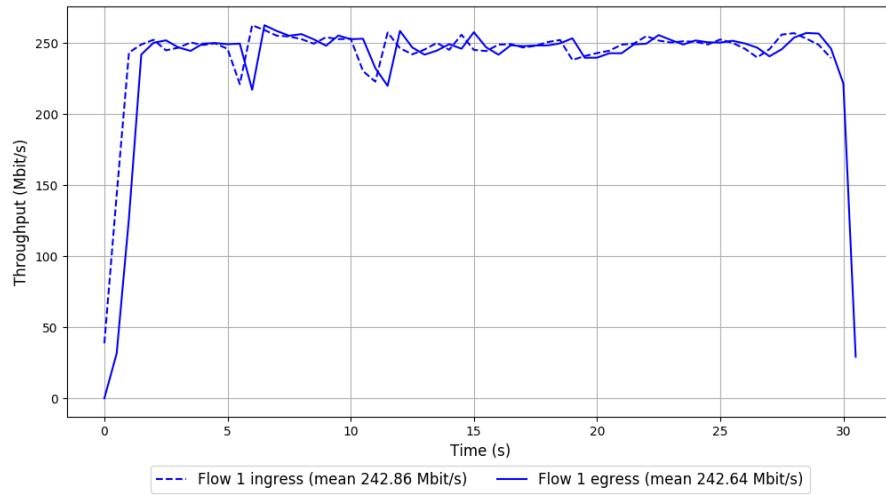


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-18 04:45:34
End at: 2019-01-18 04:46:04
Local clock offset: 0.059 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-01-18 09:02:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 242.64 Mbit/s
95th percentile per-packet one-way delay: 47.528 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 242.64 Mbit/s
95th percentile per-packet one-way delay: 47.528 ms
Loss rate: 0.09%
```

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

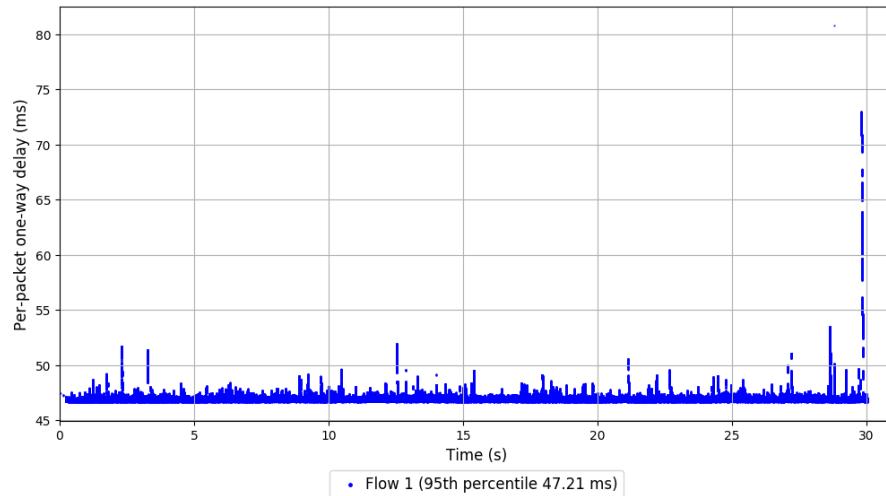
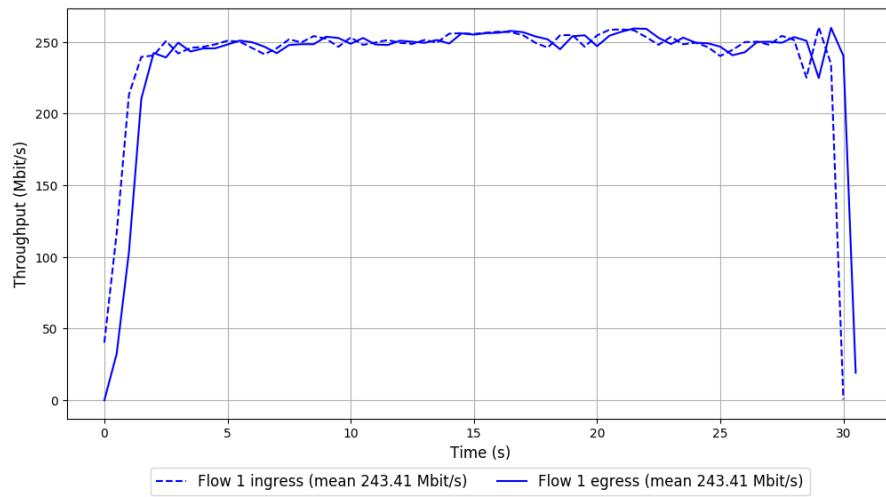


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-18 05:18:49
End at: 2019-01-18 05:19:19
Local clock offset: 0.341 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-01-18 09:02:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.41 Mbit/s
95th percentile per-packet one-way delay: 47.208 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 243.41 Mbit/s
95th percentile per-packet one-way delay: 47.208 ms
Loss rate: 0.00%
```

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

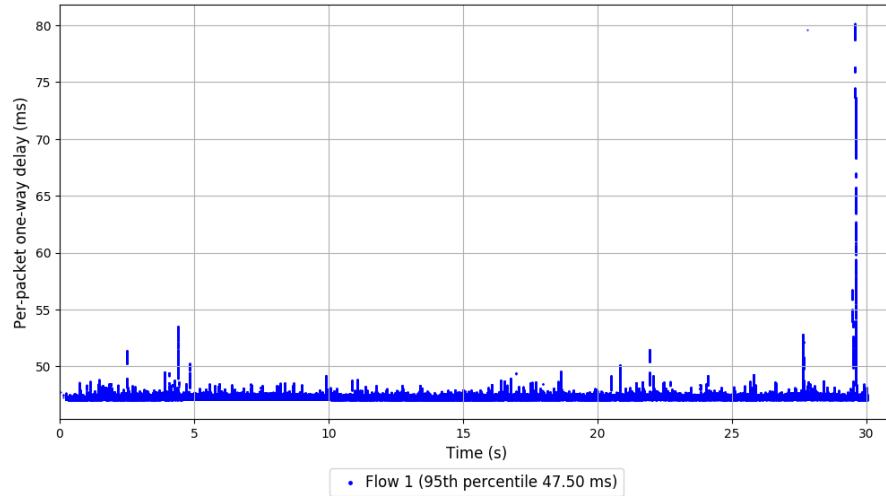
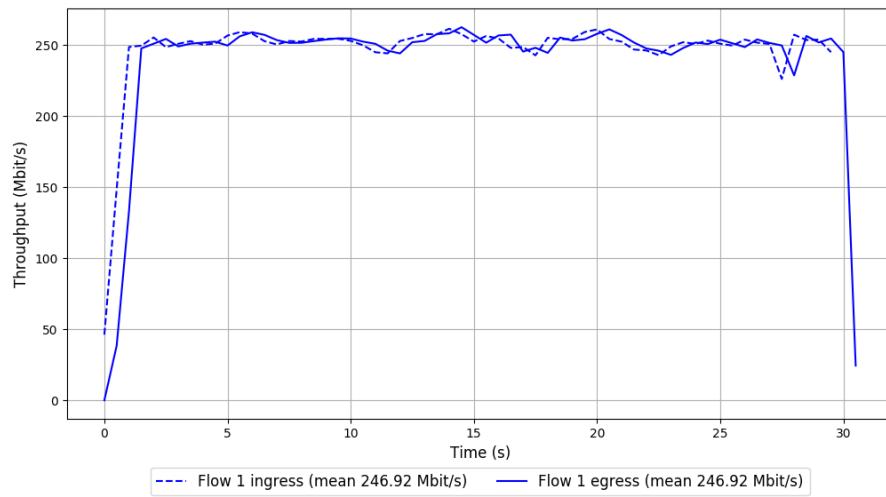


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-18 05:52:50
End at: 2019-01-18 05:53:20
Local clock offset: 0.095 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-01-18 09:02:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.92 Mbit/s
95th percentile per-packet one-way delay: 47.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 246.92 Mbit/s
95th percentile per-packet one-way delay: 47.503 ms
Loss rate: 0.00%
```

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

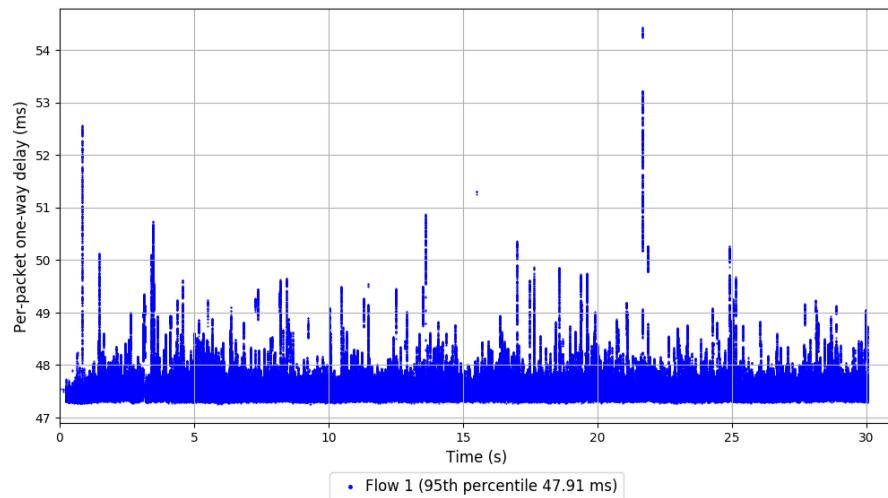
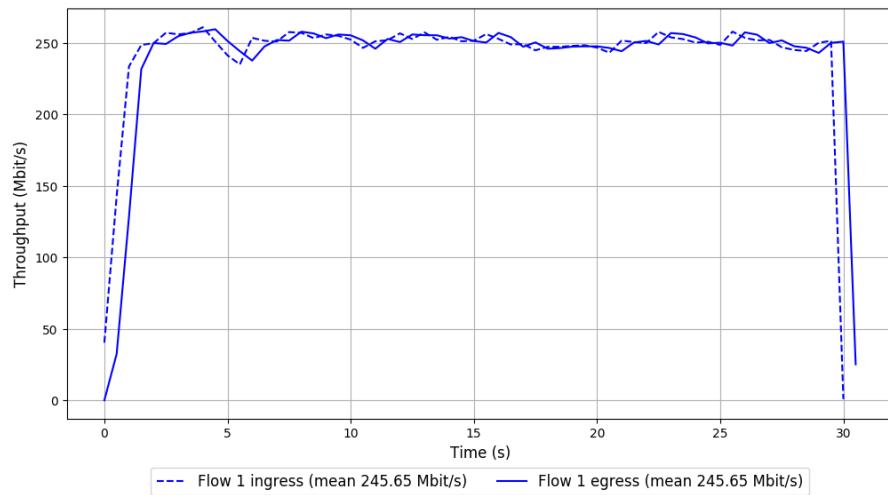


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-18 06:27:32
End at: 2019-01-18 06:28:02
Local clock offset: -0.038 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-01-18 09:02:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 245.65 Mbit/s
95th percentile per-packet one-way delay: 47.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 245.65 Mbit/s
95th percentile per-packet one-way delay: 47.915 ms
Loss rate: 0.00%
```

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

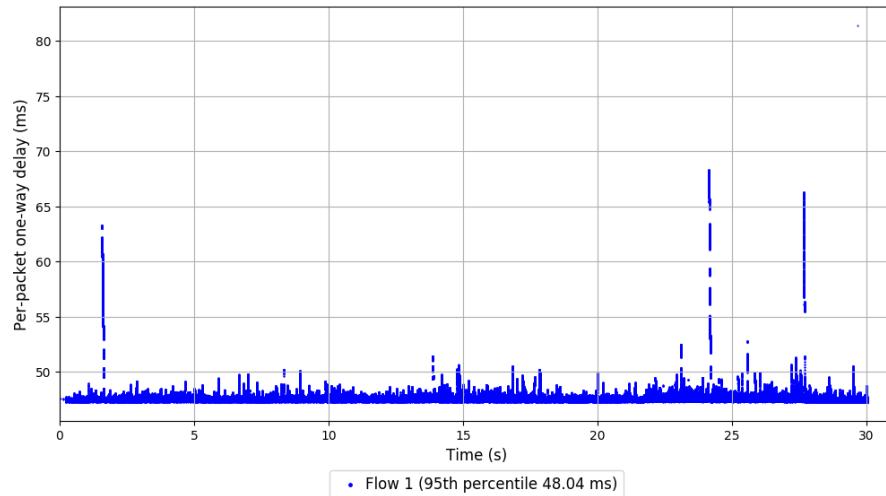
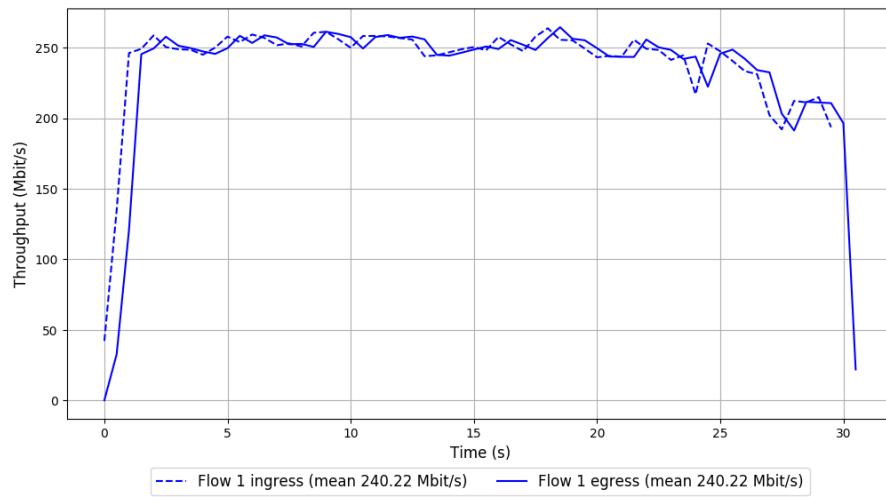


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-18 06:59:33
End at: 2019-01-18 07:00:03
Local clock offset: -0.099 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-01-18 09:02:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 240.22 Mbit/s
95th percentile per-packet one-way delay: 48.036 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 240.22 Mbit/s
95th percentile per-packet one-way delay: 48.036 ms
Loss rate: 0.00%
```

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

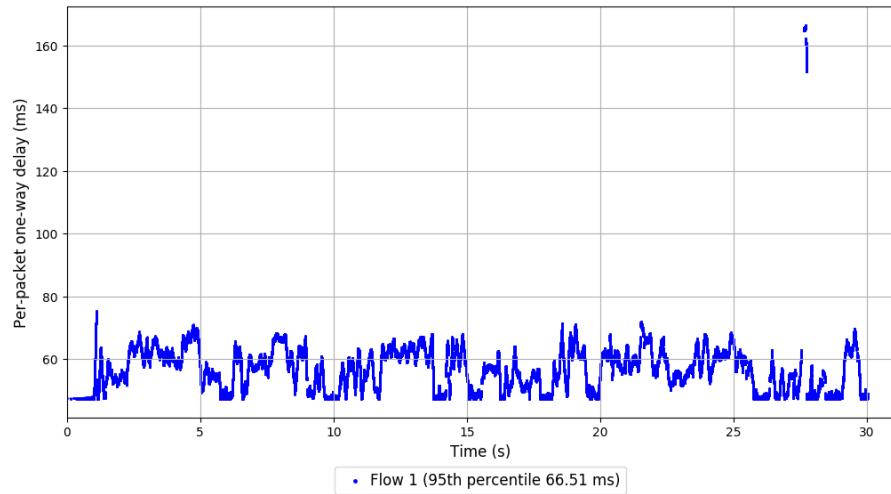
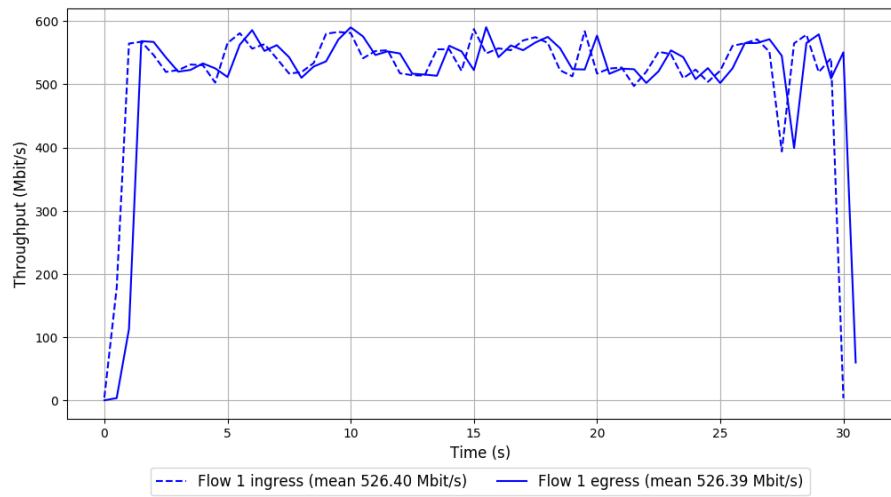


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-18 04:23:05
End at: 2019-01-18 04:23:35
Local clock offset: -0.11 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-01-18 09:03:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 526.39 Mbit/s
95th percentile per-packet one-way delay: 66.509 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 526.39 Mbit/s
95th percentile per-packet one-way delay: 66.509 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

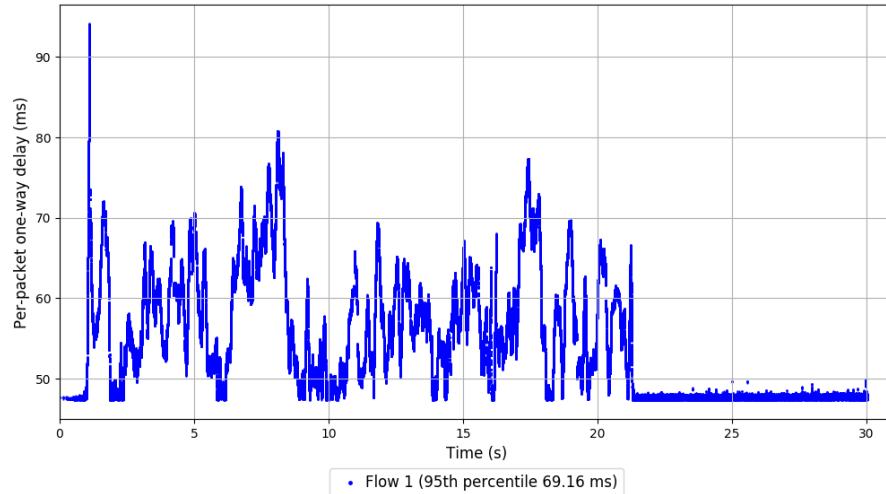
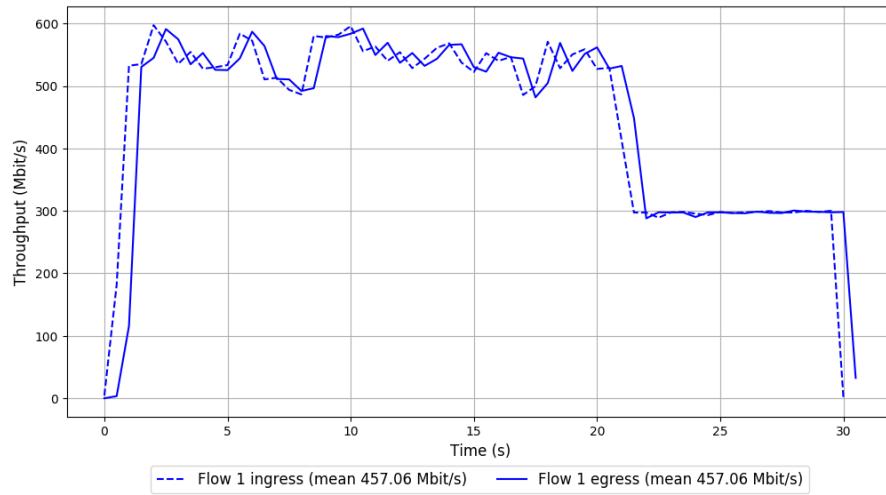


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-18 04:53:52
End at: 2019-01-18 04:54:23
Local clock offset: -0.265 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-01-18 09:08:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 457.06 Mbit/s
95th percentile per-packet one-way delay: 69.163 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 457.06 Mbit/s
95th percentile per-packet one-way delay: 69.163 ms
Loss rate: 0.00%
```

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

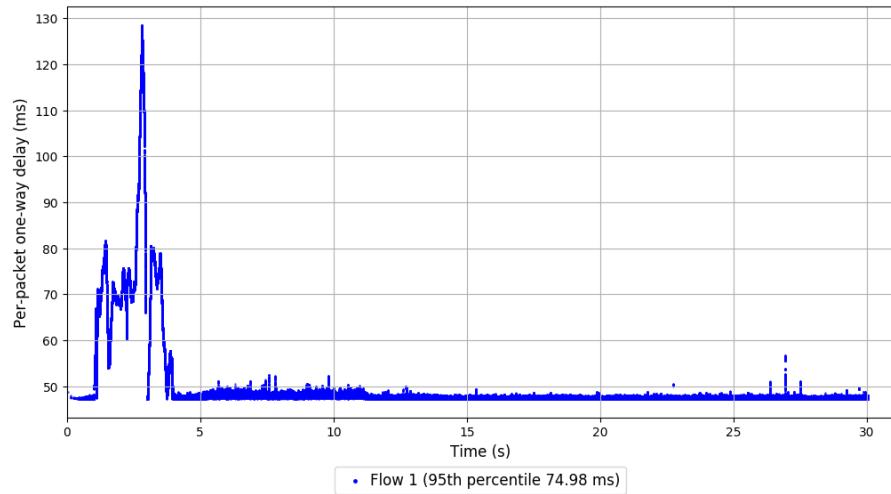
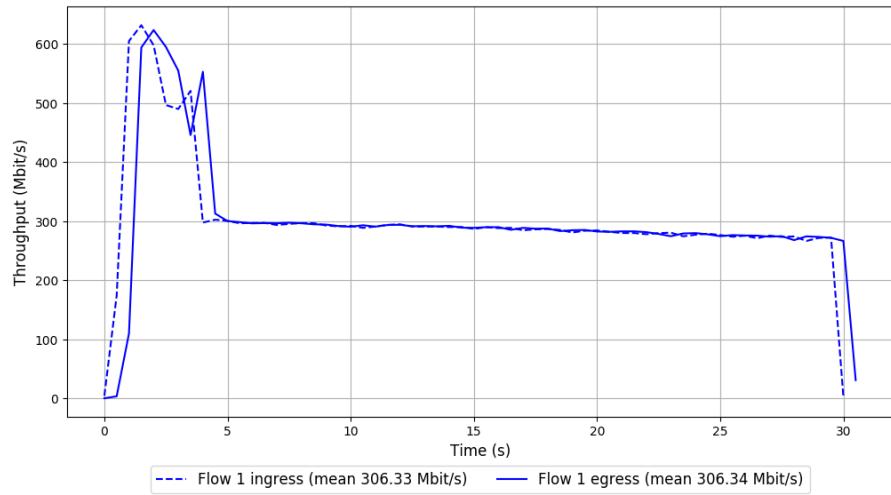


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-18 05:28:00
End at: 2019-01-18 05:28:30
Local clock offset: -0.008 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-01-18 09:08:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.34 Mbit/s
95th percentile per-packet one-way delay: 74.977 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 306.34 Mbit/s
95th percentile per-packet one-way delay: 74.977 ms
Loss rate: 0.00%
```

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

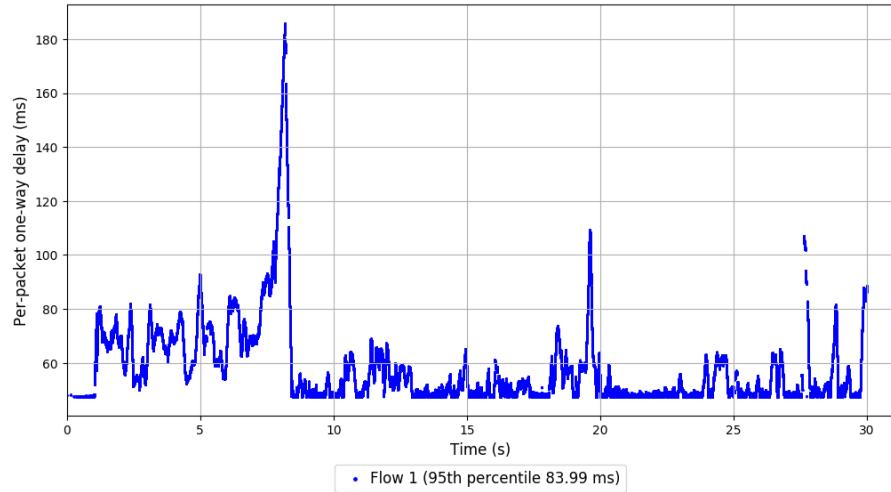
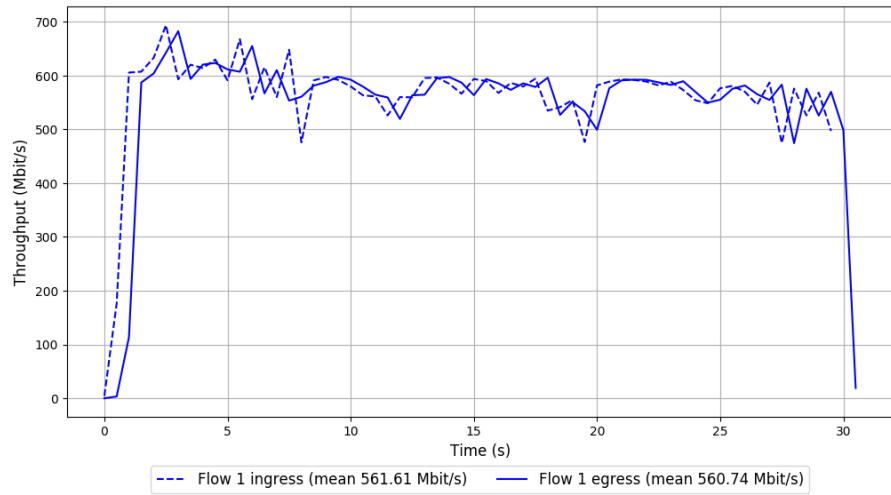


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-18 06:01:59
End at: 2019-01-18 06:02:29
Local clock offset: -0.059 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-01-18 09:13:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 560.74 Mbit/s
95th percentile per-packet one-way delay: 83.987 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 560.74 Mbit/s
95th percentile per-packet one-way delay: 83.987 ms
Loss rate: 0.16%
```

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

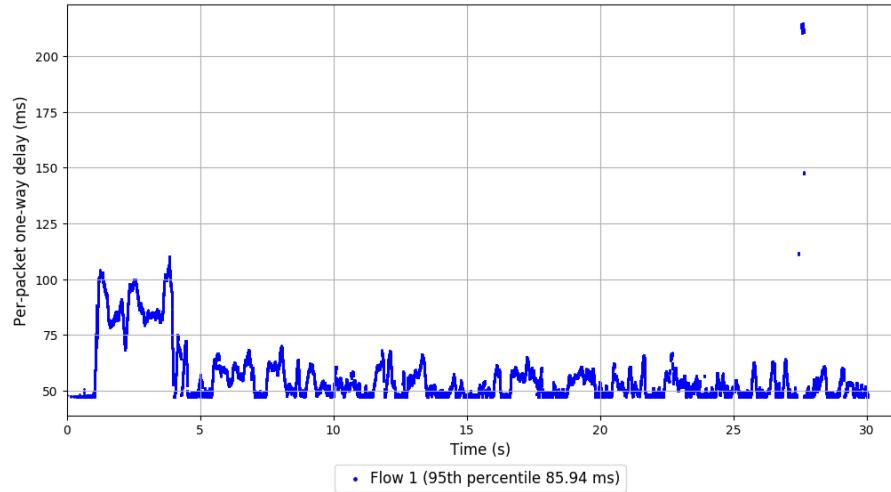
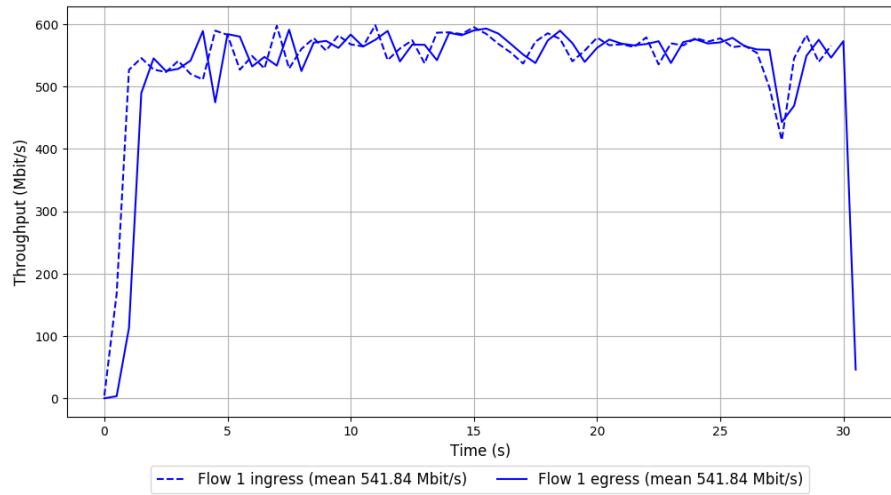


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-18 06:36:20
End at: 2019-01-18 06:36:50
Local clock offset: 0.112 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-01-18 09:13:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 541.84 Mbit/s
95th percentile per-packet one-way delay: 85.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 541.84 Mbit/s
95th percentile per-packet one-way delay: 85.941 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

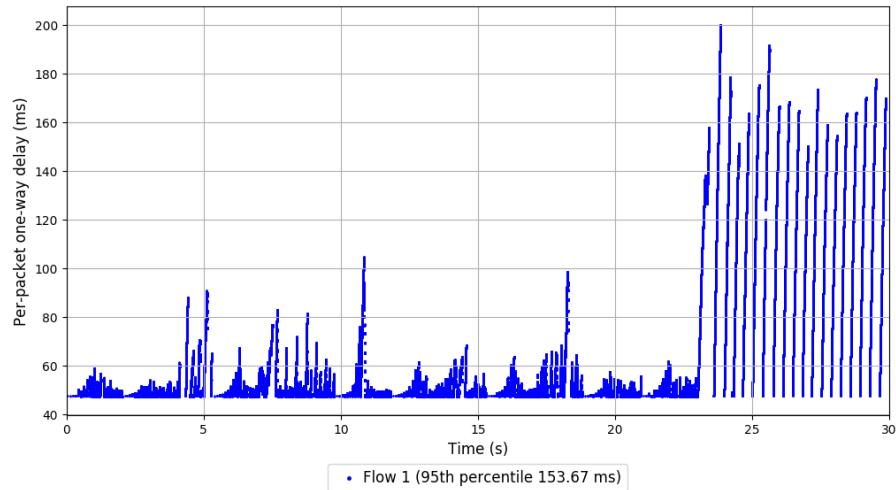
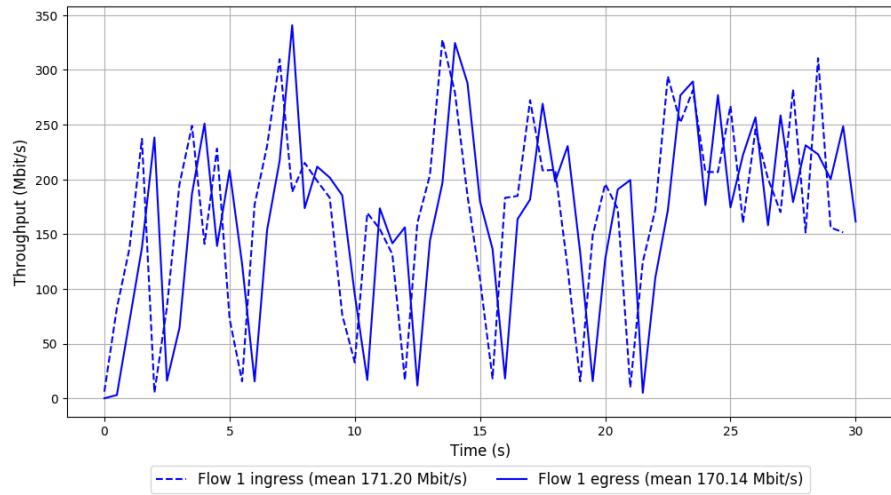


Run 1: Statistics of Verus

```
Start at: 2019-01-18 04:37:49
End at: 2019-01-18 04:38:19
Local clock offset: -0.1 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-01-18 09:13:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 170.14 Mbit/s
95th percentile per-packet one-way delay: 153.666 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 170.14 Mbit/s
95th percentile per-packet one-way delay: 153.666 ms
Loss rate: 0.23%
```

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

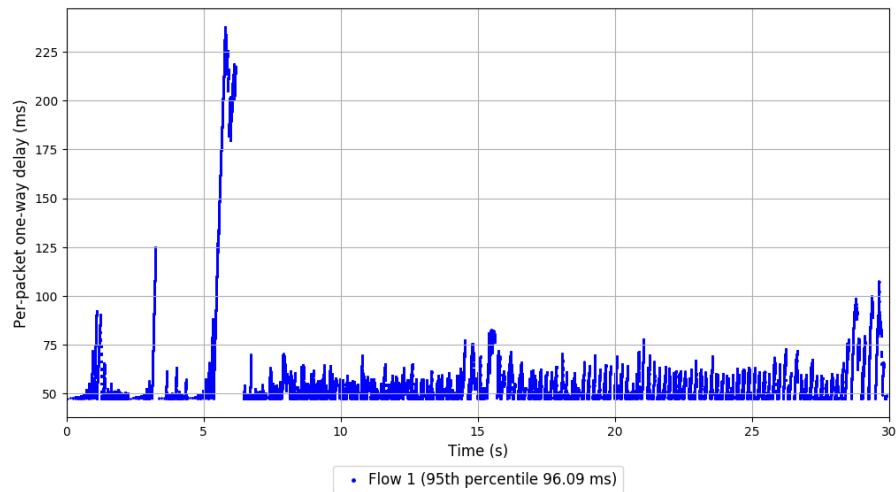
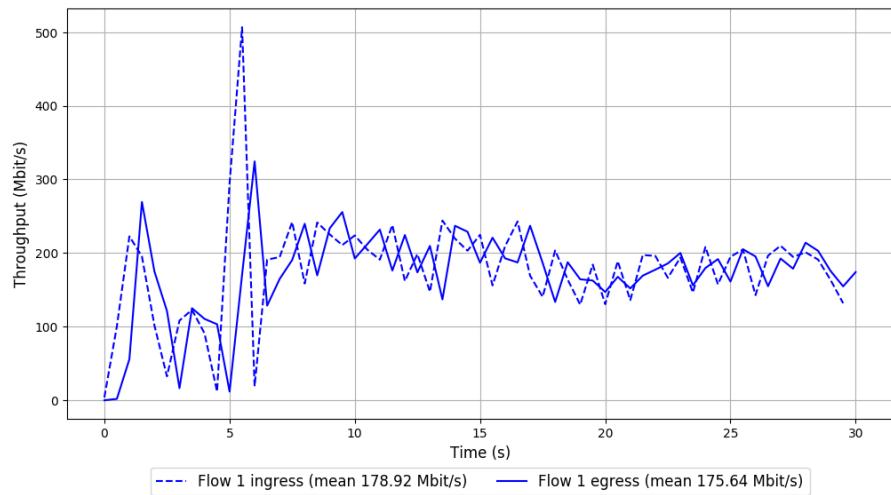


Run 2: Statistics of Verus

```
Start at: 2019-01-18 05:09:57
End at: 2019-01-18 05:10:27
Local clock offset: -0.026 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-01-18 09:13:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.64 Mbit/s
95th percentile per-packet one-way delay: 96.088 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 175.64 Mbit/s
95th percentile per-packet one-way delay: 96.088 ms
Loss rate: 1.83%
```

## Run 2: Report of Verus — Data Link

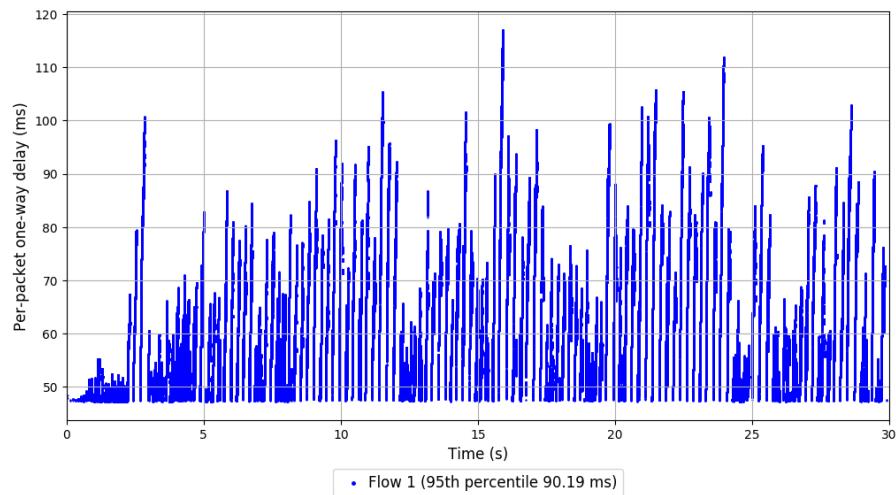
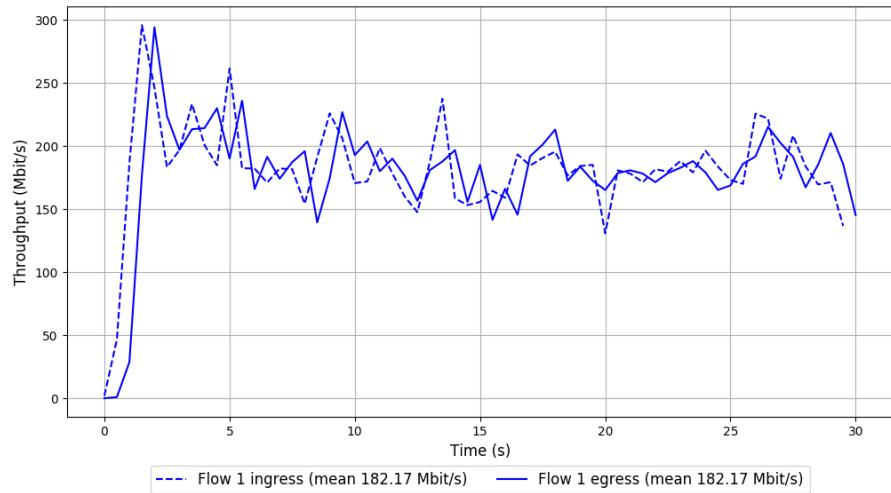


Run 3: Statistics of Verus

```
Start at: 2019-01-18 05:44:18
End at: 2019-01-18 05:44:48
Local clock offset: 0.066 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-01-18 09:13:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.17 Mbit/s
95th percentile per-packet one-way delay: 90.189 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.17 Mbit/s
95th percentile per-packet one-way delay: 90.189 ms
Loss rate: 0.00%
```

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

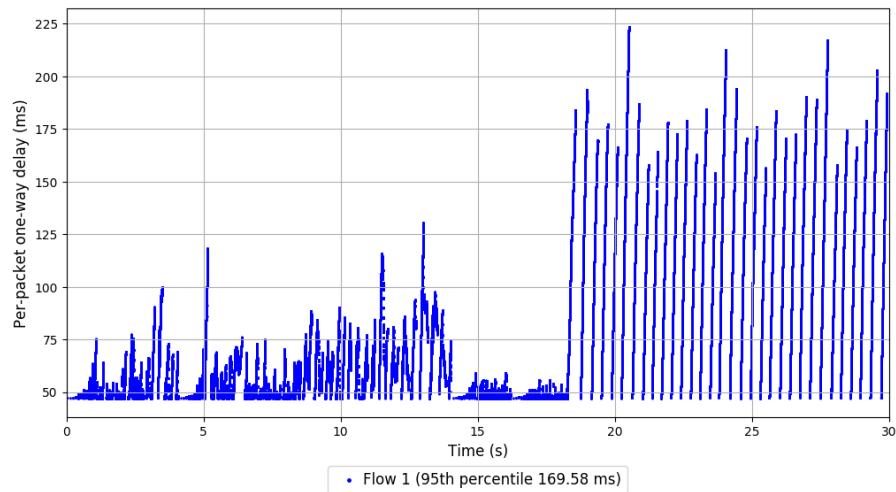
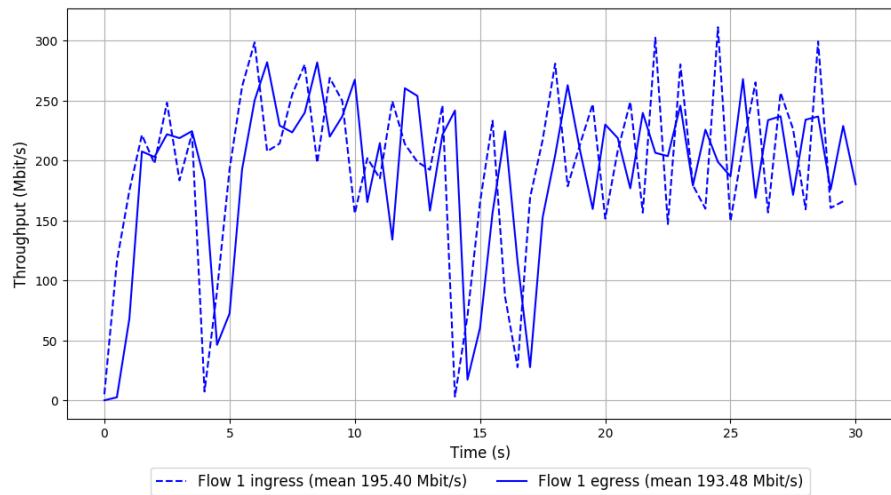


Run 4: Statistics of Verus

```
Start at: 2019-01-18 06:18:37
End at: 2019-01-18 06:19:07
Local clock offset: 0.369 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-01-18 09:13:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.48 Mbit/s
95th percentile per-packet one-way delay: 169.584 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 193.48 Mbit/s
95th percentile per-packet one-way delay: 169.584 ms
Loss rate: 0.60%
```

## Run 4: Report of Verus — Data Link

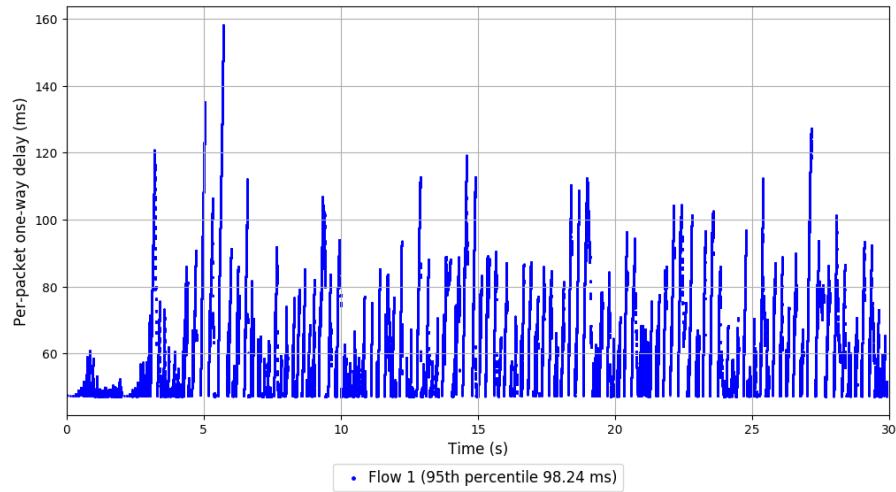
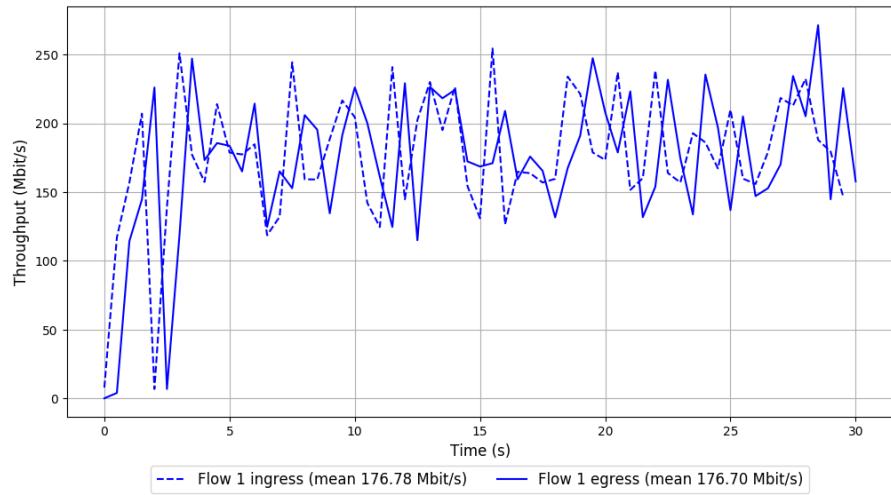


Run 5: Statistics of Verus

```
Start at: 2019-01-18 06:51:36
End at: 2019-01-18 06:52:06
Local clock offset: 0.1 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-01-18 09:13:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 176.70 Mbit/s
95th percentile per-packet one-way delay: 98.240 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 176.70 Mbit/s
95th percentile per-packet one-way delay: 98.240 ms
Loss rate: 0.04%
```

Run 5: Report of Verus — Data Link

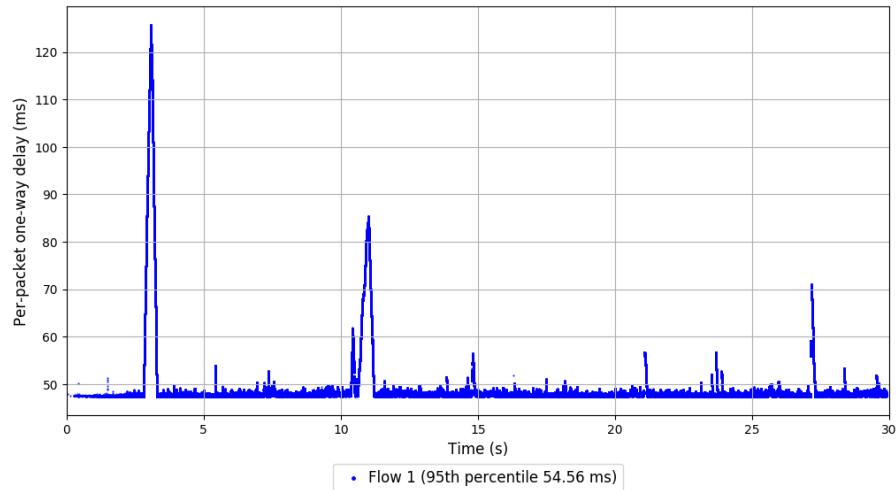
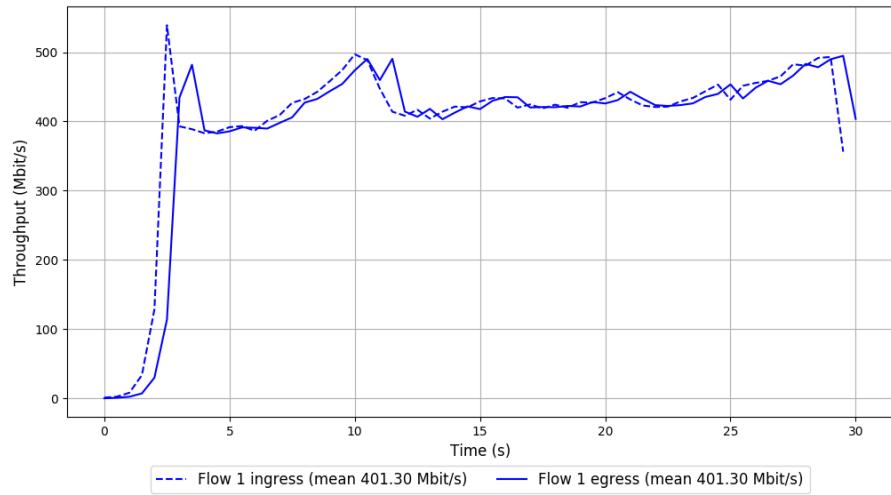


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-18 04:25:46
End at: 2019-01-18 04:26:16
Local clock offset: -0.029 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-01-18 09:15:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 401.30 Mbit/s
95th percentile per-packet one-way delay: 54.565 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 401.30 Mbit/s
95th percentile per-packet one-way delay: 54.565 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

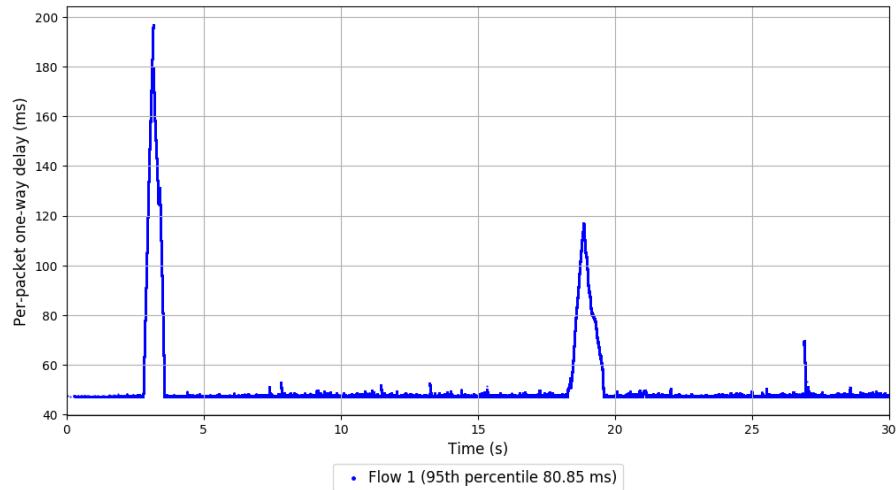
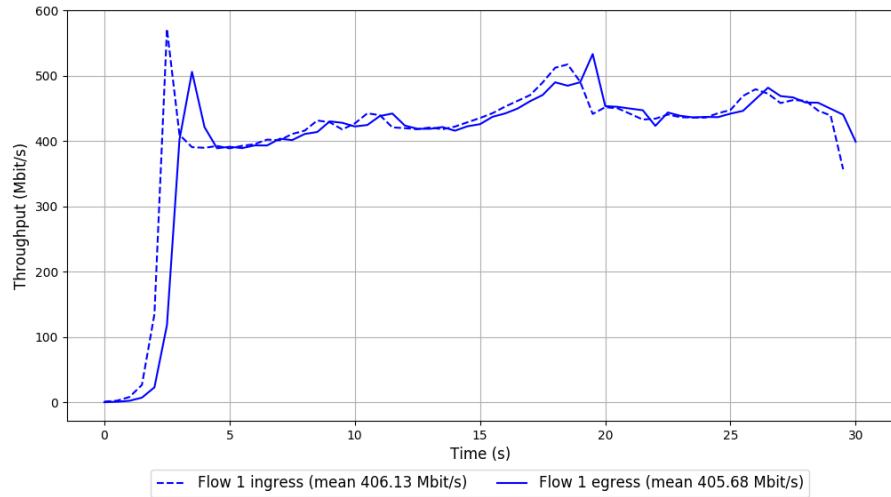


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-18 04:56:30
End at: 2019-01-18 04:57:00
Local clock offset: -0.058 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-01-18 09:16:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 405.68 Mbit/s
95th percentile per-packet one-way delay: 80.851 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 405.68 Mbit/s
95th percentile per-packet one-way delay: 80.851 ms
Loss rate: 0.11%
```

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

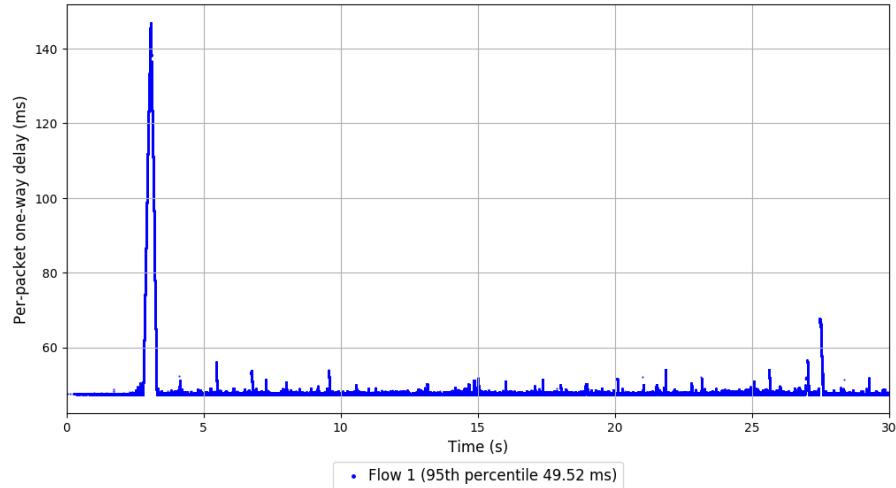
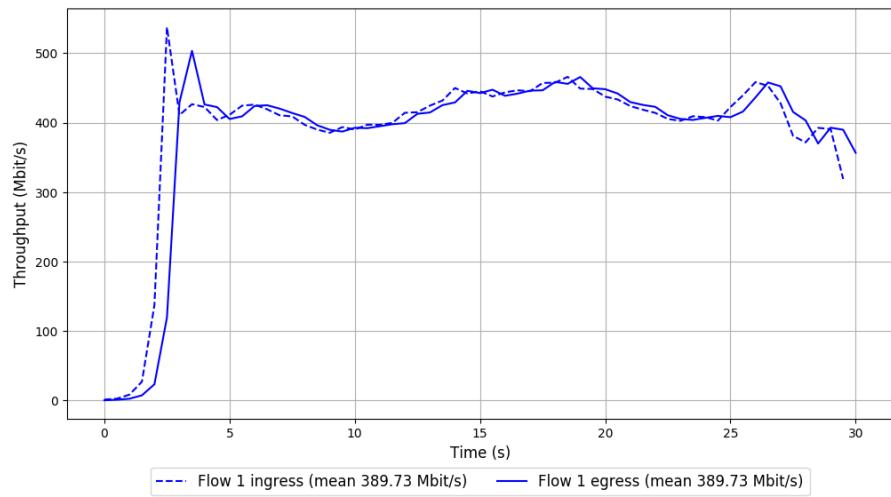


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-18 05:30:36
End at: 2019-01-18 05:31:06
Local clock offset: -0.076 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-01-18 09:16:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 389.73 Mbit/s
95th percentile per-packet one-way delay: 49.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 389.73 Mbit/s
95th percentile per-packet one-way delay: 49.522 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

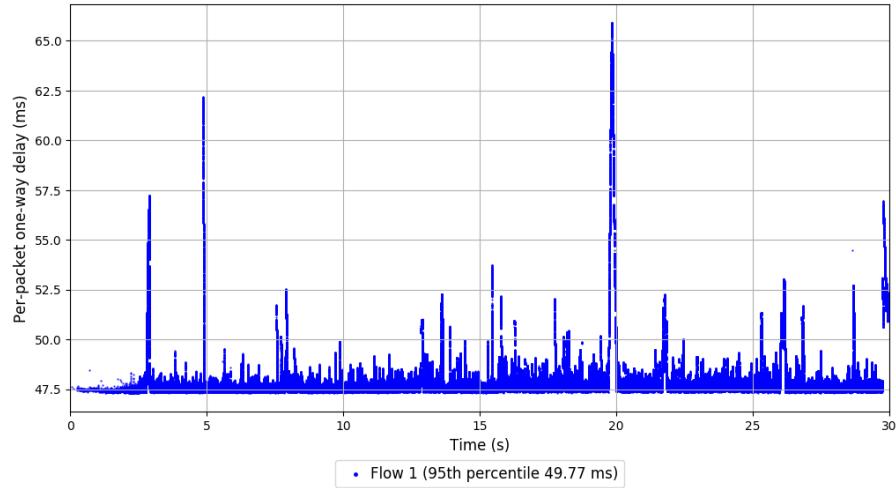
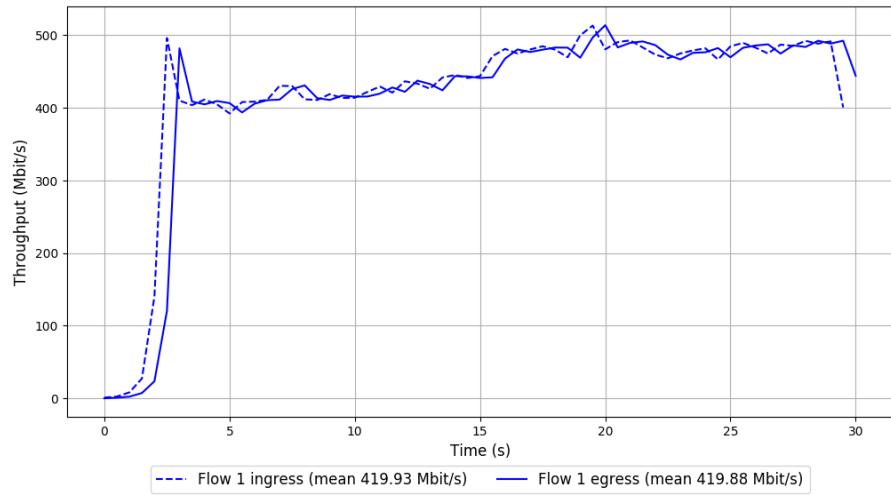


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-18 06:04:56
End at: 2019-01-18 06:05:26
Local clock offset: -0.019 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-01-18 09:16:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 419.88 Mbit/s
95th percentile per-packet one-way delay: 49.774 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 419.88 Mbit/s
95th percentile per-packet one-way delay: 49.774 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Vivace — Data Link

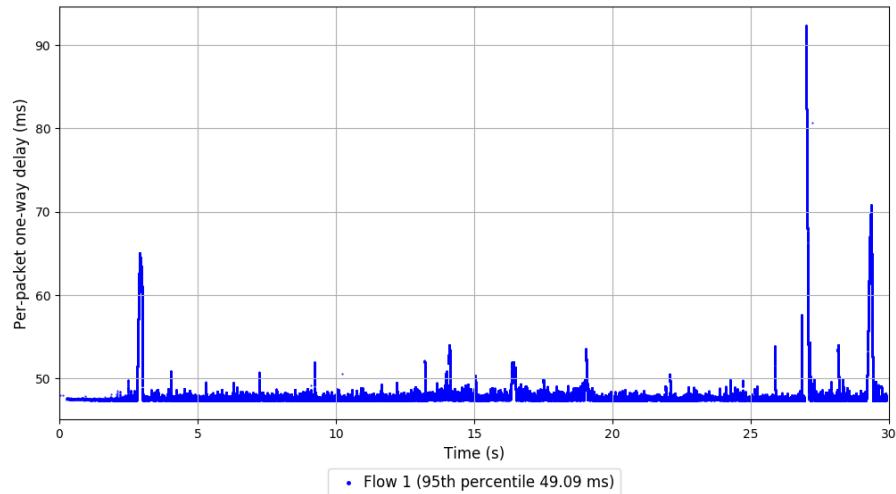
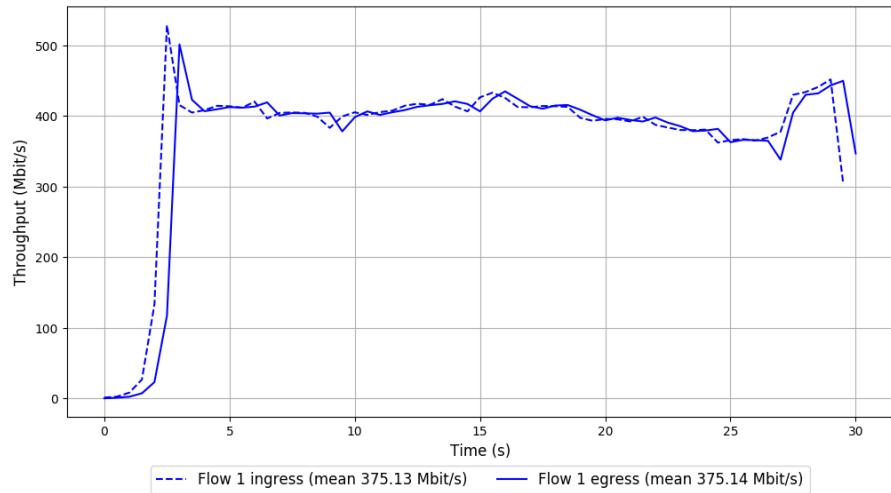


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-18 06:39:17
End at: 2019-01-18 06:39:47
Local clock offset: -0.025 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-01-18 09:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 375.14 Mbit/s
95th percentile per-packet one-way delay: 49.090 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 375.14 Mbit/s
95th percentile per-packet one-way delay: 49.090 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

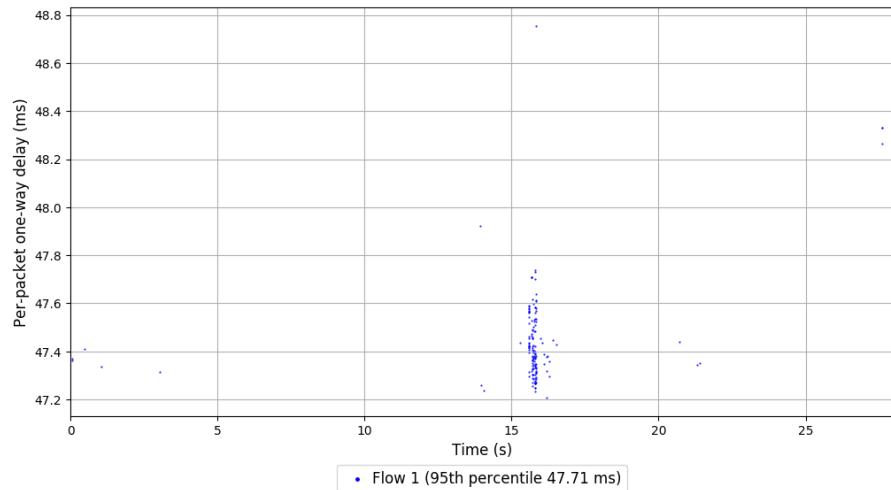
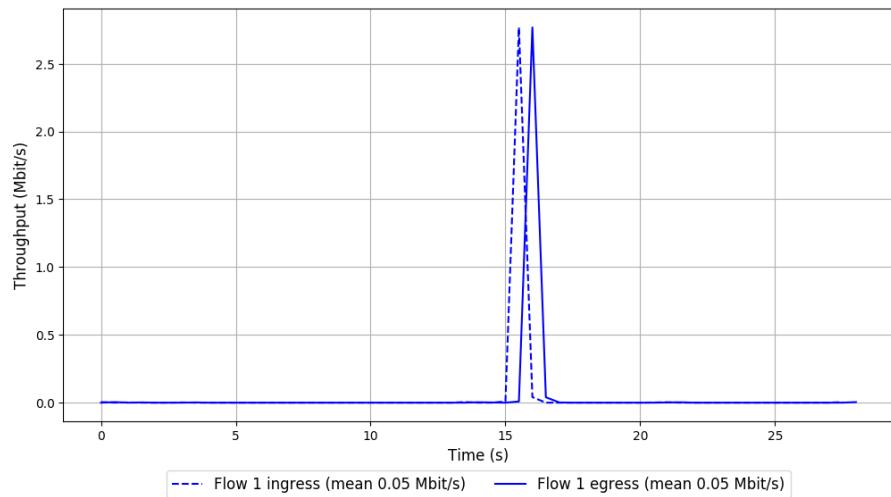


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-18 04:47:04
End at: 2019-01-18 04:47:34
Local clock offset: 0.119 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-01-18 09:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.710 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.710 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

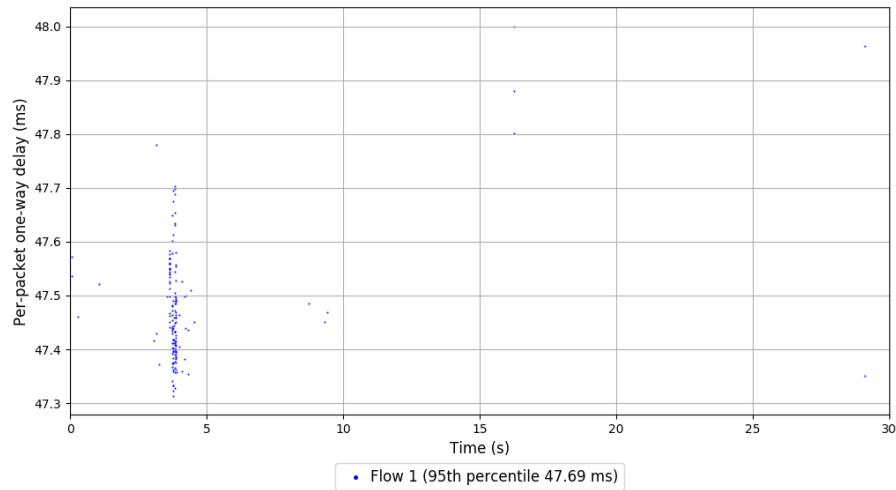
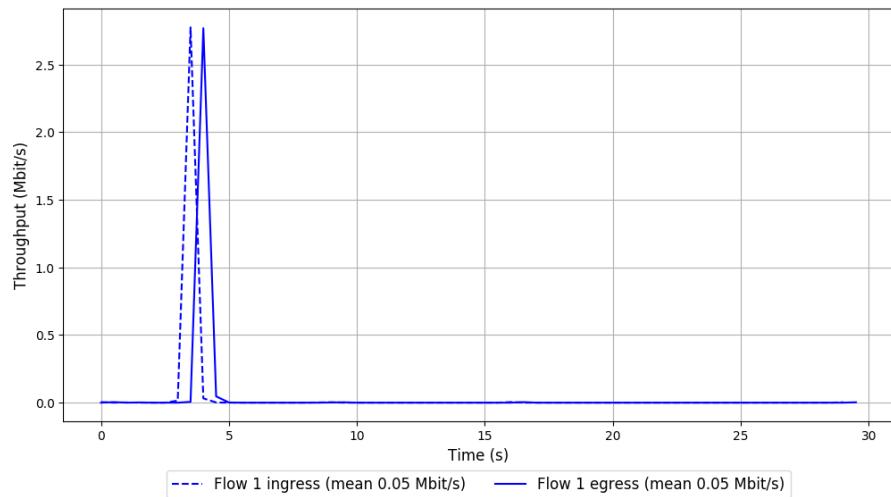


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-18 05:20:30
End at: 2019-01-18 05:21:00
Local clock offset: -0.006 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-01-18 09:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.688 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.688 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

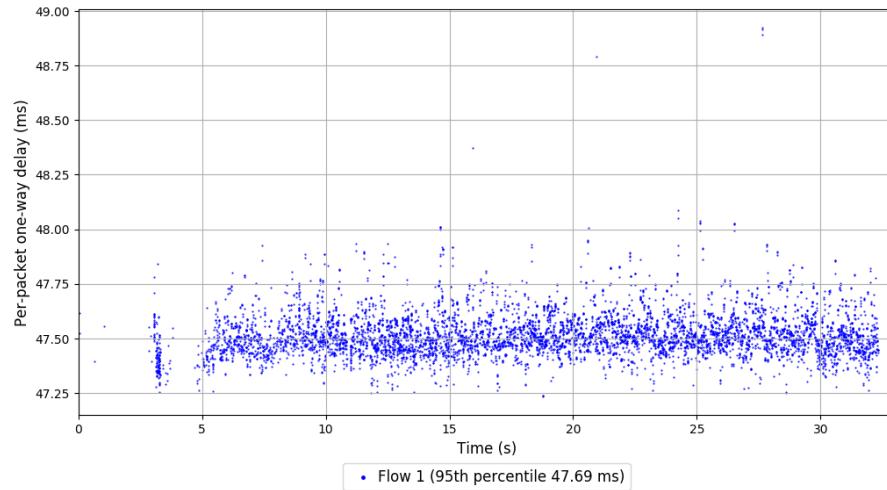
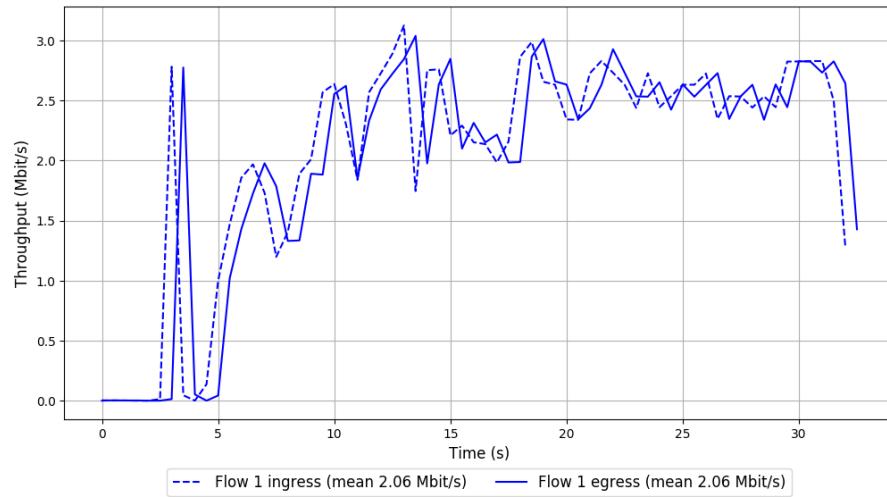


```
Run 3: Statistics of WebRTC media

Start at: 2019-01-18 05:54:32
End at: 2019-01-18 05:55:02
Local clock offset: -0.018 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-01-18 09:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 47.690 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 47.690 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

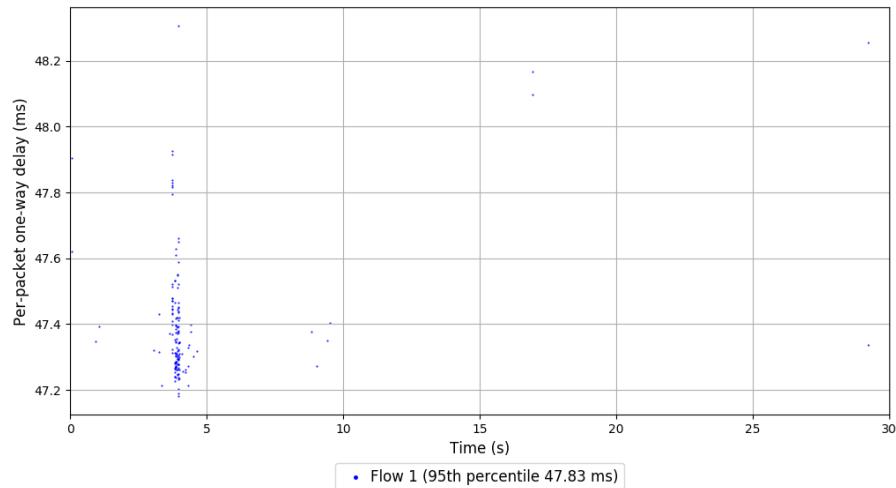
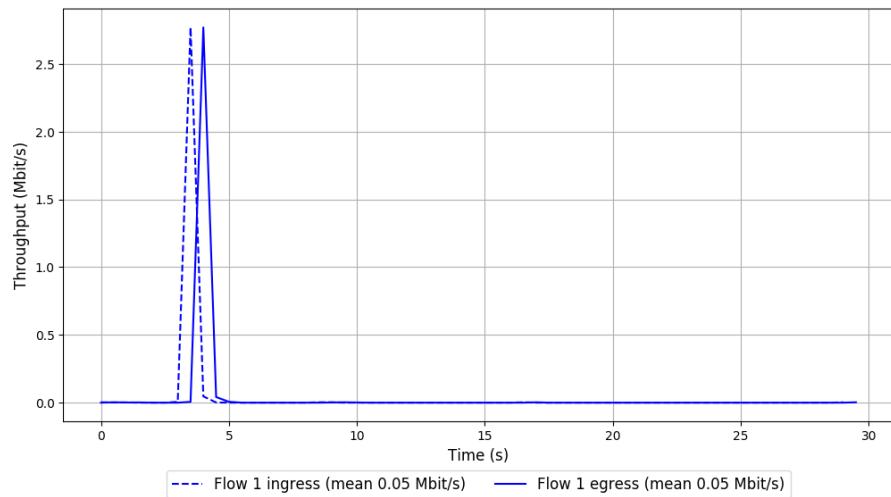


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-18 06:29:04
End at: 2019-01-18 06:29:34
Local clock offset: 0.403 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-01-18 09:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.829 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-01-18 07:01:05
End at: 2019-01-18 07:01:35
Local clock offset: -0.469 ms
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-01-18 09:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 48.157 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 48.157 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

