

## Pantheon Report

Generated at 2019-07-12 01:07:34 (UTC).  
Data path: AWS Brazil 2 on `ens5` (*local*) → Colombia on `p4p1` (*remote*).  
Repeated the test of 24 congestion control schemes 5 times.  
Each test lasted for 30 seconds running 1 flow.  
NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

System info:

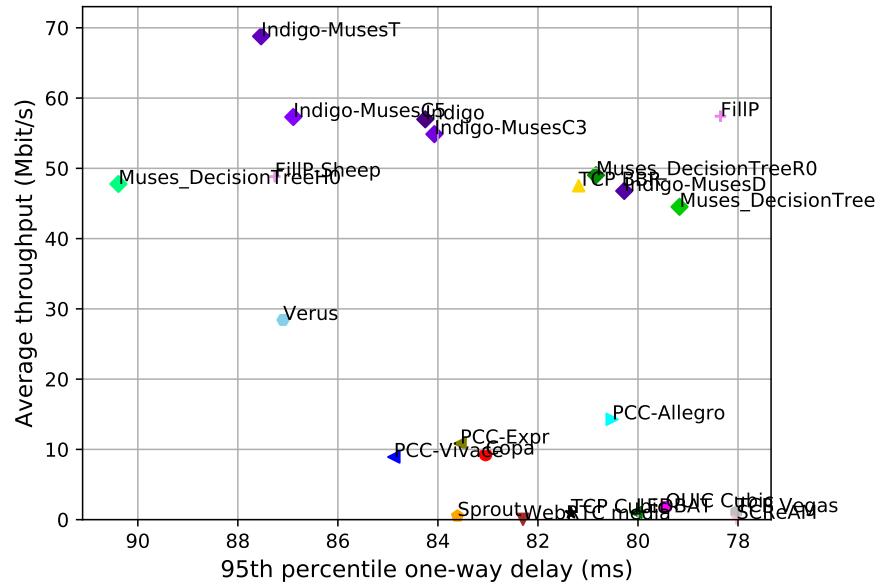
```
Linux 4.15.0-1041-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

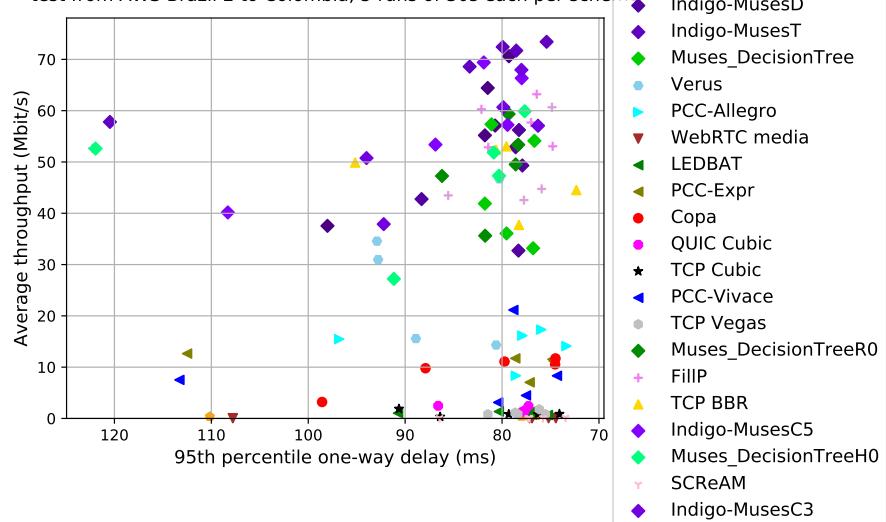
```
branch: muses @ 2076e1149a241f3edb4365d686df32342bf9561f
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 8bb93ffff2b107204a92d8b72449fc0c55e15f00
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

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

test from AWS Brazil 2 to Colombia, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



test from AWS Brazil 2 to Colombia, 5 runs of 30s each per scheme



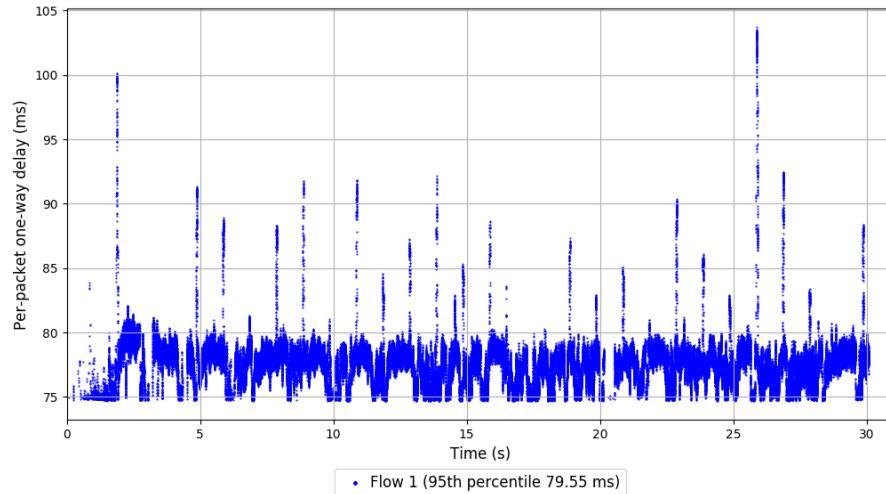
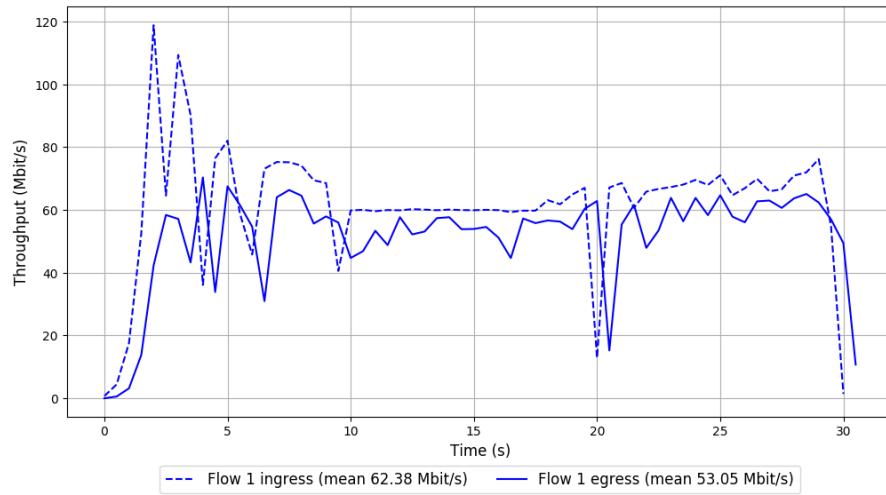
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	47.52	81.19	15.50
Copa	5	9.27	83.05	37.87
TCP Cubic	5	0.95	81.34	3.05
FillP	5	57.42	78.35	12.55
FillP-Sheep	5	48.82	87.26	10.15
Indigo	5	56.97	84.25	34.85
Indigo-MusesC3	5	54.86	84.07	14.95
Indigo-MusesC5	5	57.30	86.89	24.66
Indigo-MusesD	5	46.78	80.27	12.71
Indigo-MusesT	5	68.79	87.54	26.37
LEDBAT	5	1.04	80.04	3.54
Muses_DecisionTree	5	44.52	79.17	10.41
Muses_DecisionTreeH0	5	47.78	90.39	24.24
Muses_DecisionTreeR0	5	49.03	80.84	10.45
PCC-Allegro	5	14.28	80.52	3.65
PCC-Expr	5	10.84	83.56	11.43
QUIC Cubic	5	1.77	79.45	2.64
SCReAM	5	0.12	78.03	2.76
Sprout	5	0.53	83.61	6.74
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	1.08	78.03	2.47
Verus	5	28.43	87.10	85.06
PCC-Vivace	5	8.92	84.88	3.18
WebRTC media	5	0.05	82.30	5.57

Run 1: Statistics of TCP BBR

```
Start at: 2019-07-11 23:03:44
End at: 2019-07-11 23:04:14
Local clock offset: -0.866 ms
Remote clock offset: -6.134 ms

# Below is generated by plot.py at 2019-07-12 01:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.05 Mbit/s
95th percentile per-packet one-way delay: 79.551 ms
Loss rate: 14.95%
-- Flow 1:
Average throughput: 53.05 Mbit/s
95th percentile per-packet one-way delay: 79.551 ms
Loss rate: 14.95%
```

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

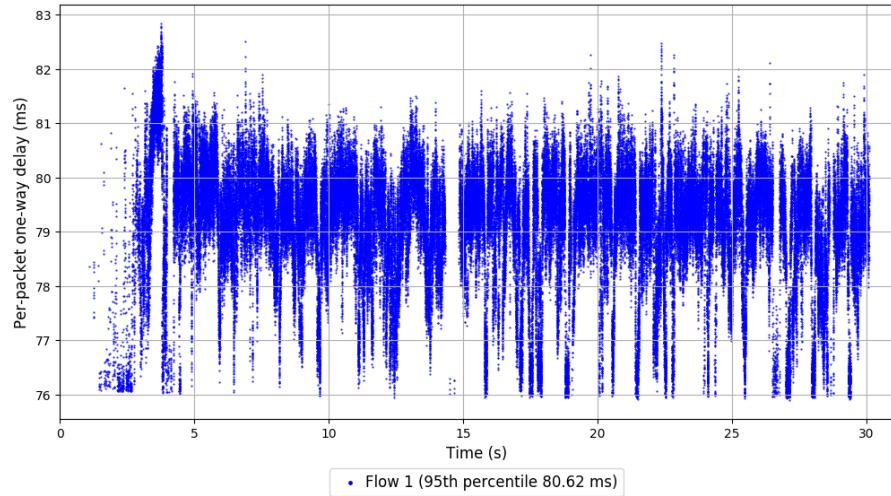
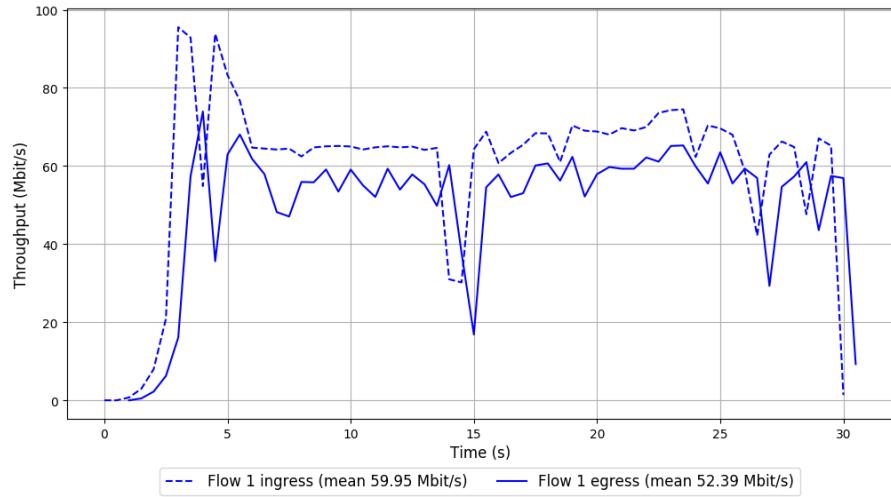


Run 2: Statistics of TCP BBR

```
Start at: 2019-07-11 23:31:35
End at: 2019-07-11 23:32:05
Local clock offset: -1.161 ms
Remote clock offset: -5.515 ms

# Below is generated by plot.py at 2019-07-12 01:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.39 Mbit/s
95th percentile per-packet one-way delay: 80.623 ms
Loss rate: 15.54%
-- Flow 1:
Average throughput: 52.39 Mbit/s
95th percentile per-packet one-way delay: 80.623 ms
Loss rate: 15.54%
```

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

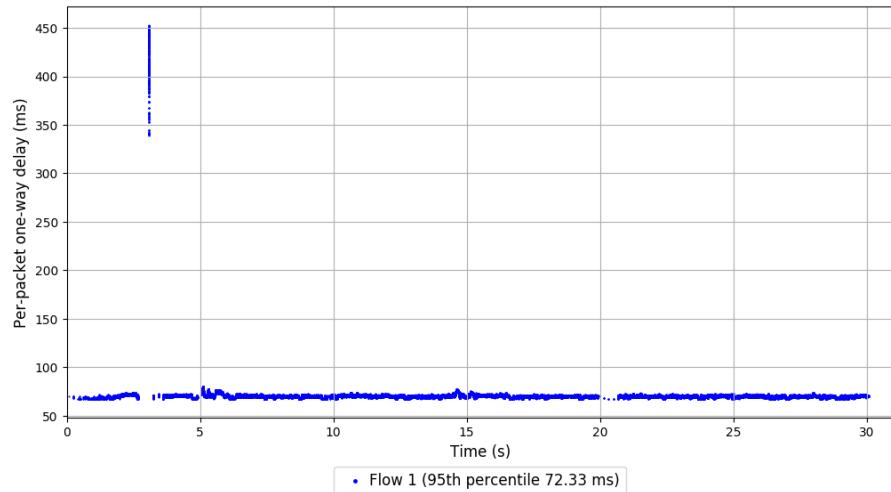
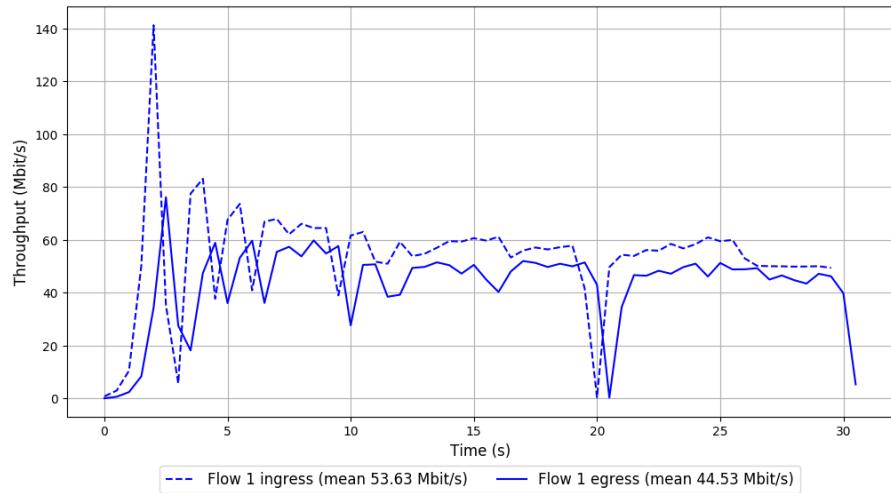


Run 3: Statistics of TCP BBR

```
Start at: 2019-07-11 23:59:48
End at: 2019-07-12 00:00:18
Local clock offset: -1.921 ms
Remote clock offset: -10.8 ms

# Below is generated by plot.py at 2019-07-12 01:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.53 Mbit/s
95th percentile per-packet one-way delay: 72.332 ms
Loss rate: 16.96%
-- Flow 1:
Average throughput: 44.53 Mbit/s
95th percentile per-packet one-way delay: 72.332 ms
Loss rate: 16.96%
```

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

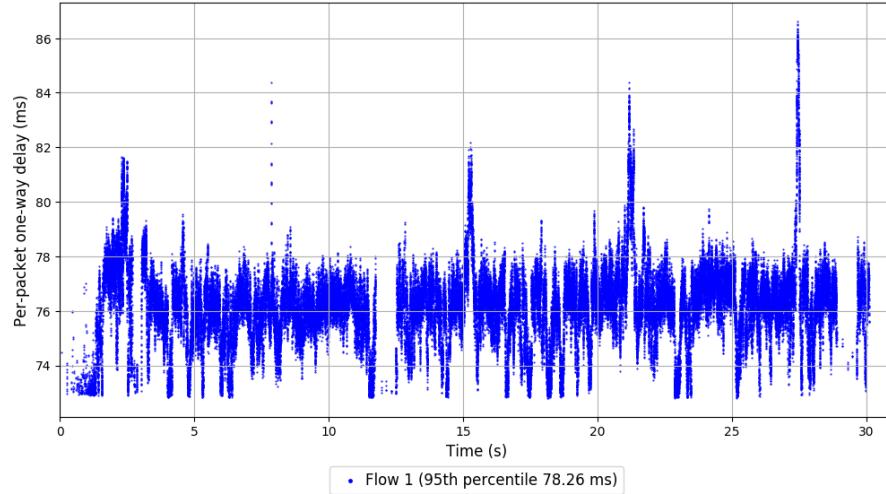
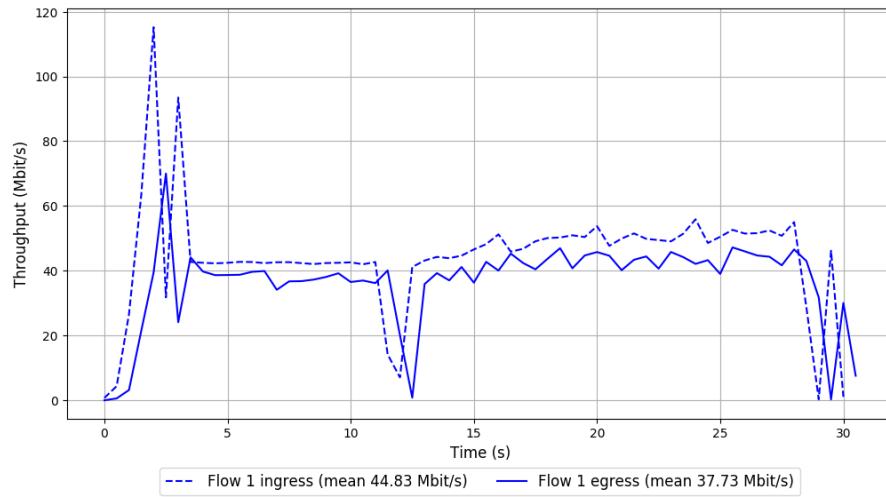


Run 4: Statistics of TCP BBR

```
Start at: 2019-07-12 00:28:02
End at: 2019-07-12 00:28:32
Local clock offset: -1.94 ms
Remote clock offset: -6.136 ms

# Below is generated by plot.py at 2019-07-12 01:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.73 Mbit/s
95th percentile per-packet one-way delay: 78.261 ms
Loss rate: 15.83%
-- Flow 1:
Average throughput: 37.73 Mbit/s
95th percentile per-packet one-way delay: 78.261 ms
Loss rate: 15.83%
```

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

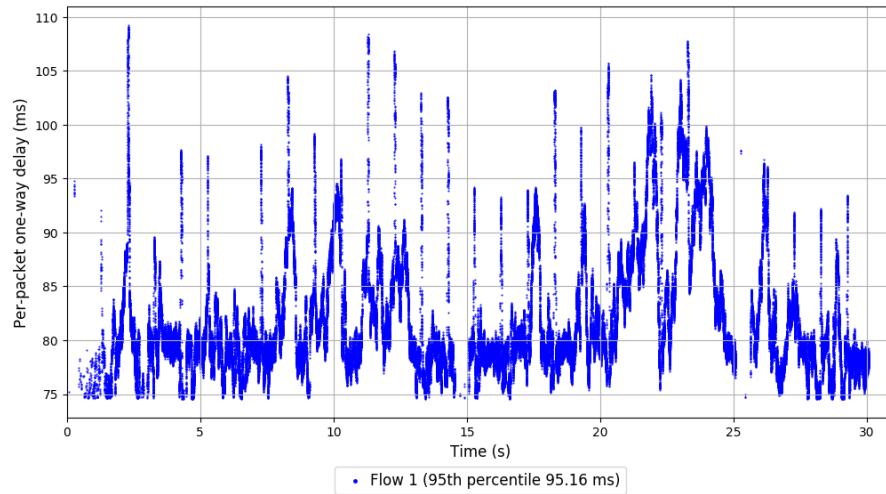
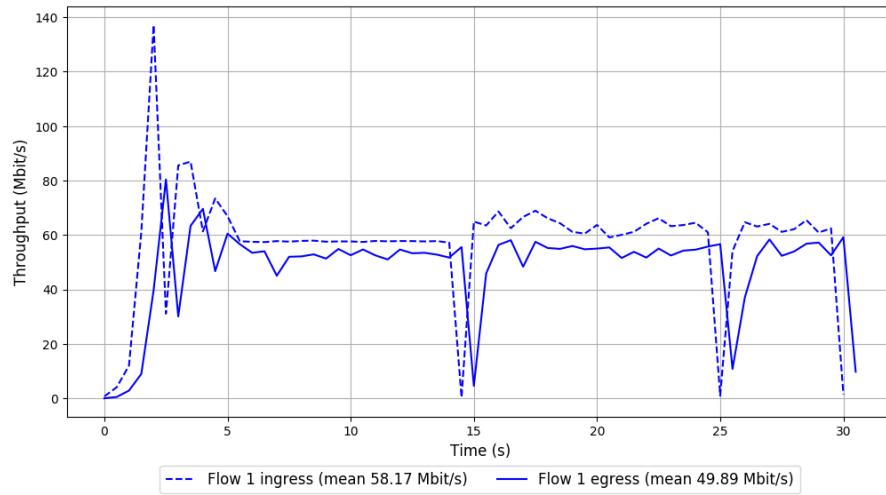


Run 5: Statistics of TCP BBR

```
Start at: 2019-07-12 00:56:14
End at: 2019-07-12 00:56:44
Local clock offset: -2.005 ms
Remote clock offset: -3.013 ms

# Below is generated by plot.py at 2019-07-12 01:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.89 Mbit/s
95th percentile per-packet one-way delay: 95.161 ms
Loss rate: 14.24%
-- Flow 1:
Average throughput: 49.89 Mbit/s
95th percentile per-packet one-way delay: 95.161 ms
Loss rate: 14.24%
```

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

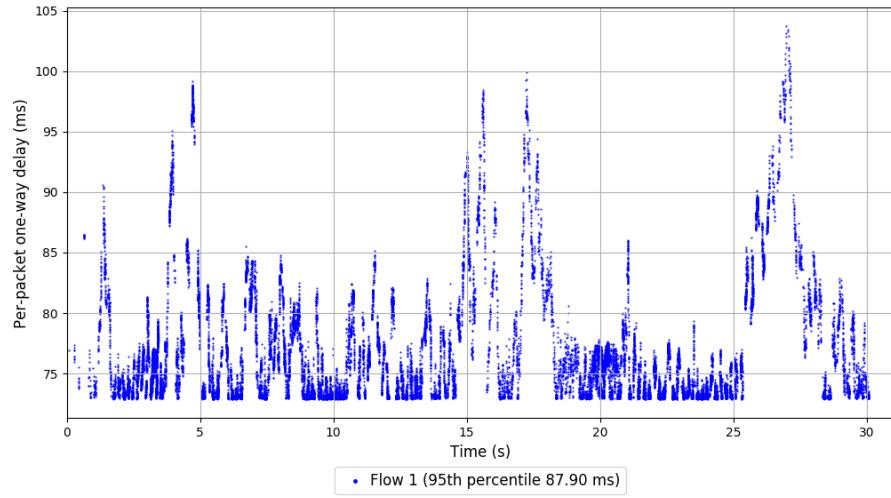
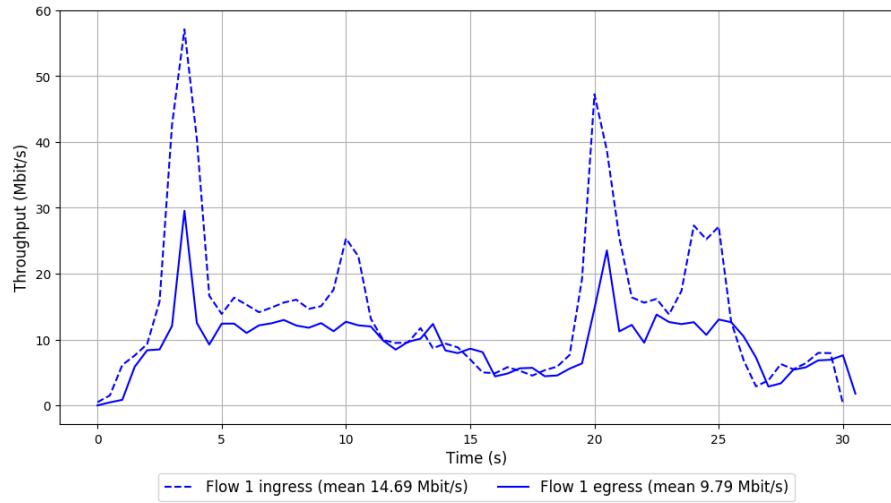


Run 1: Statistics of Copa

```
Start at: 2019-07-11 22:49:42
End at: 2019-07-11 22:50:12
Local clock offset: -1.936 ms
Remote clock offset: -9.256 ms

# Below is generated by plot.py at 2019-07-12 01:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.79 Mbit/s
95th percentile per-packet one-way delay: 87.898 ms
Loss rate: 33.33%
-- Flow 1:
Average throughput: 9.79 Mbit/s
95th percentile per-packet one-way delay: 87.898 ms
Loss rate: 33.33%
```

### Run 1: Report of Copa — Data Link

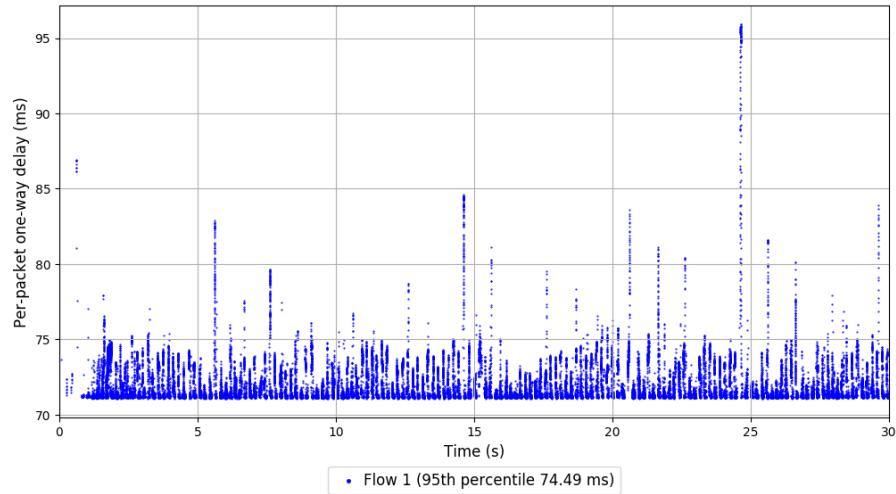
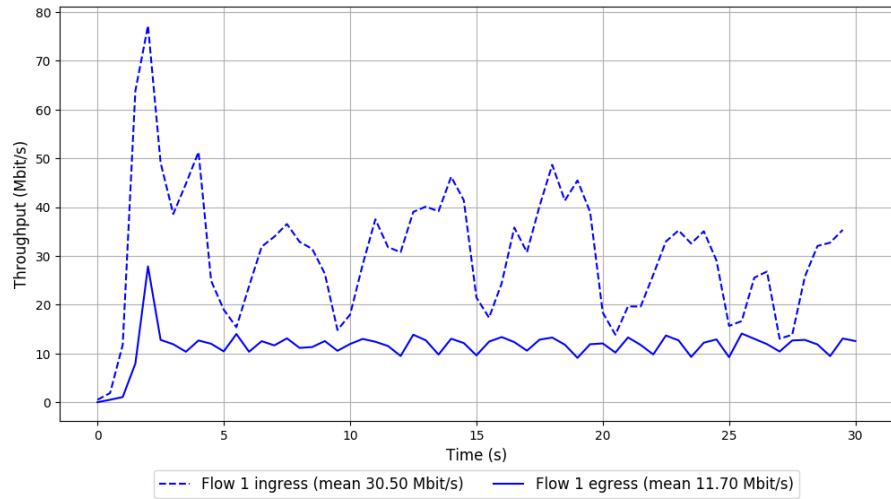


Run 2: Statistics of Copa

```
Start at: 2019-07-11 23:17:34
End at: 2019-07-11 23:18:04
Local clock offset: -0.975 ms
Remote clock offset: -8.451 ms

# Below is generated by plot.py at 2019-07-12 01:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 74.488 ms
Loss rate: 61.65%
-- Flow 1:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 74.488 ms
Loss rate: 61.65%
```

## Run 2: Report of Copa — Data Link

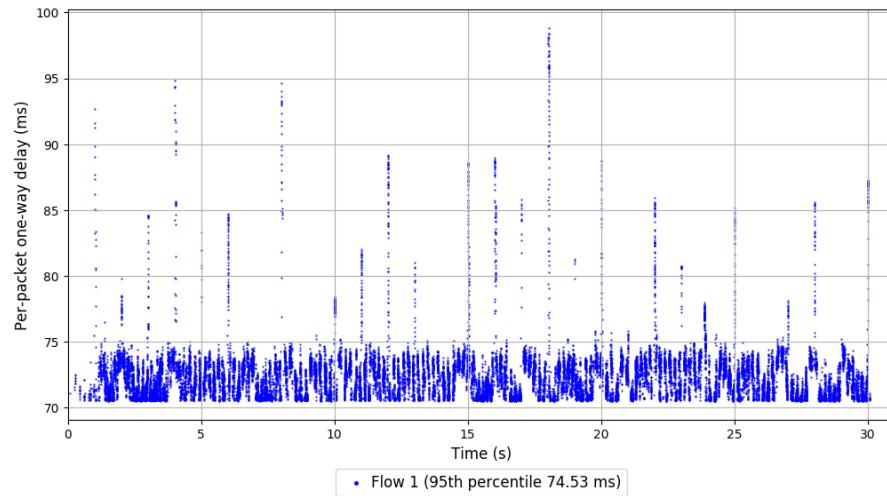
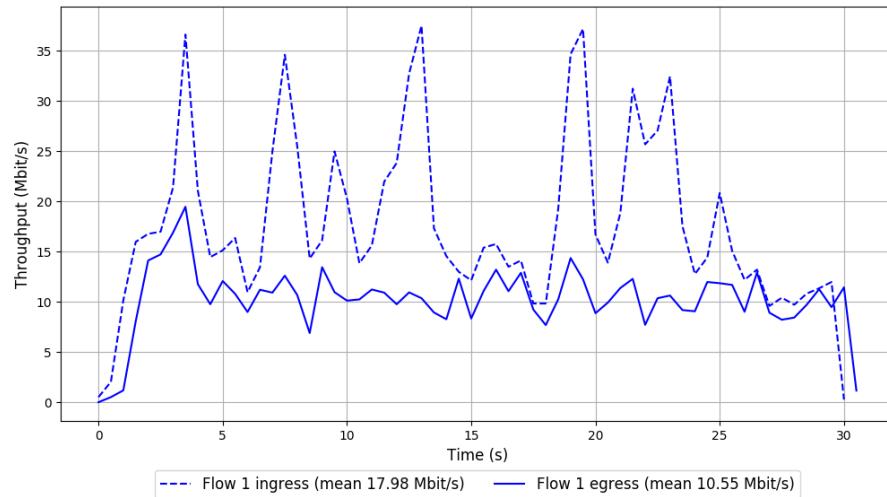


Run 3: Statistics of Copa

```
Start at: 2019-07-11 23:45:39
End at: 2019-07-11 23:46:09
Local clock offset: -1.943 ms
Remote clock offset: -7.861 ms

# Below is generated by plot.py at 2019-07-12 01:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.55 Mbit/s
95th percentile per-packet one-way delay: 74.526 ms
Loss rate: 41.34%
-- Flow 1:
Average throughput: 10.55 Mbit/s
95th percentile per-packet one-way delay: 74.526 ms
Loss rate: 41.34%
```

### Run 3: Report of Copa — Data Link

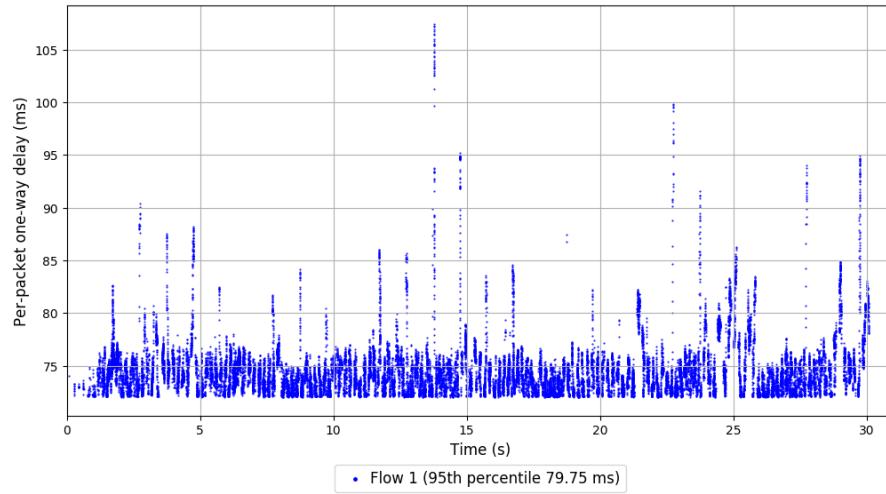
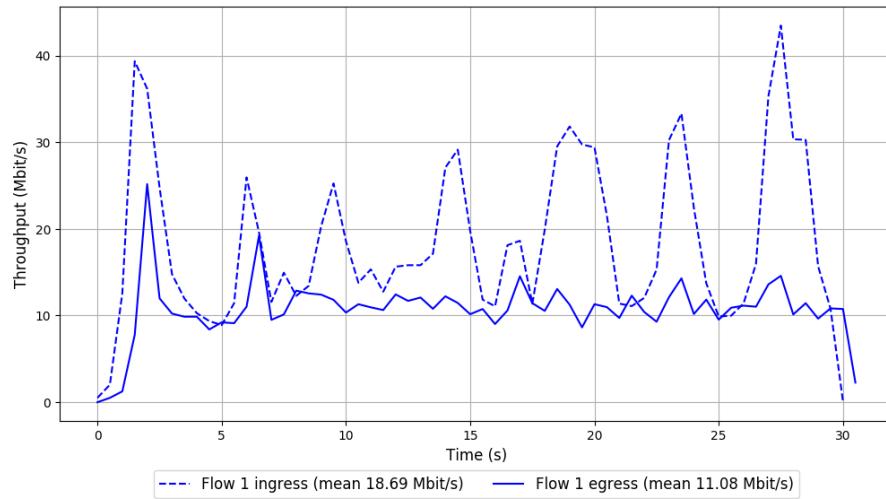


Run 4: Statistics of Copa

```
Start at: 2019-07-12 00:13:56
End at: 2019-07-12 00:14:26
Local clock offset: -1.947 ms
Remote clock offset: -6.049 ms

# Below is generated by plot.py at 2019-07-12 01:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.08 Mbit/s
95th percentile per-packet one-way delay: 79.746 ms
Loss rate: 40.71%
-- Flow 1:
Average throughput: 11.08 Mbit/s
95th percentile per-packet one-way delay: 79.746 ms
Loss rate: 40.71%
```

### Run 4: Report of Copa — Data Link

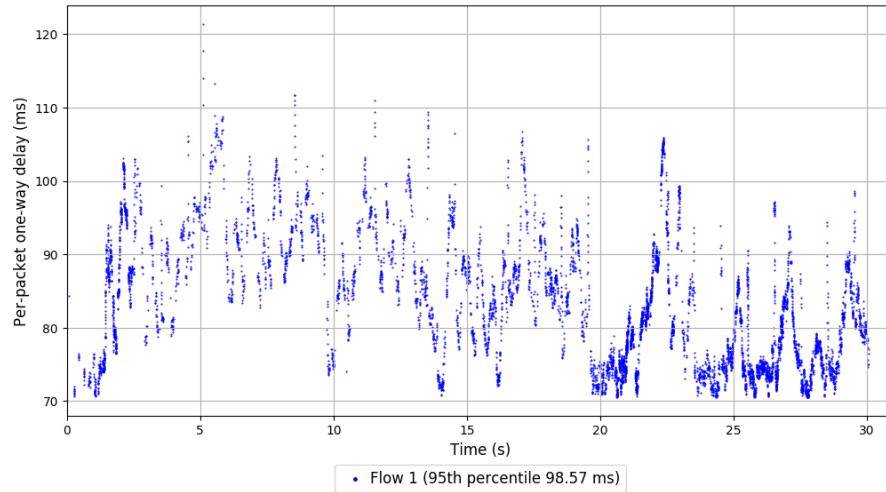
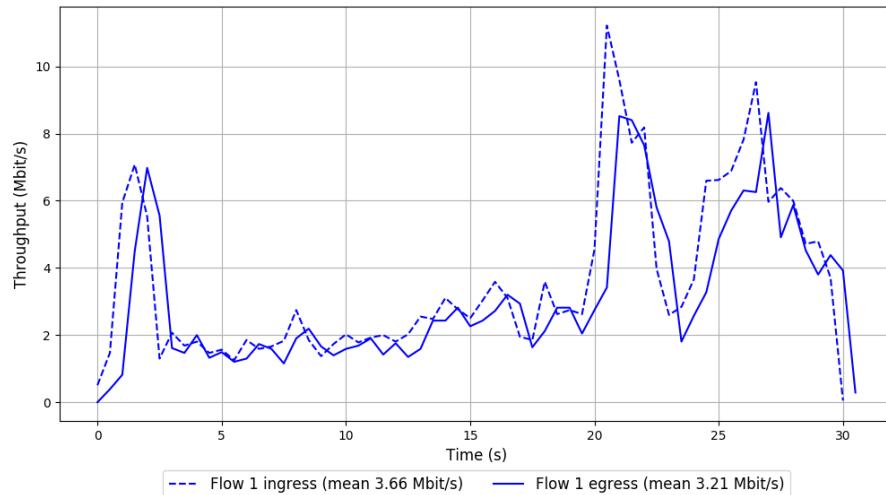


Run 5: Statistics of Copa

```
Start at: 2019-07-12 00:42:12
End at: 2019-07-12 00:42:42
Local clock offset: -2.166 ms
Remote clock offset: -6.749 ms

# Below is generated by plot.py at 2019-07-12 01:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 98.571 ms
Loss rate: 12.34%
-- Flow 1:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 98.571 ms
Loss rate: 12.34%
```

### Run 5: Report of Copa — Data Link

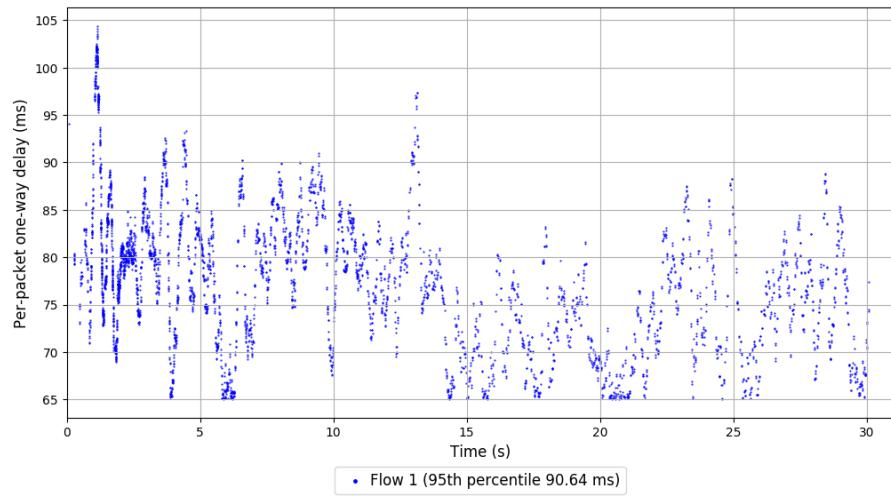
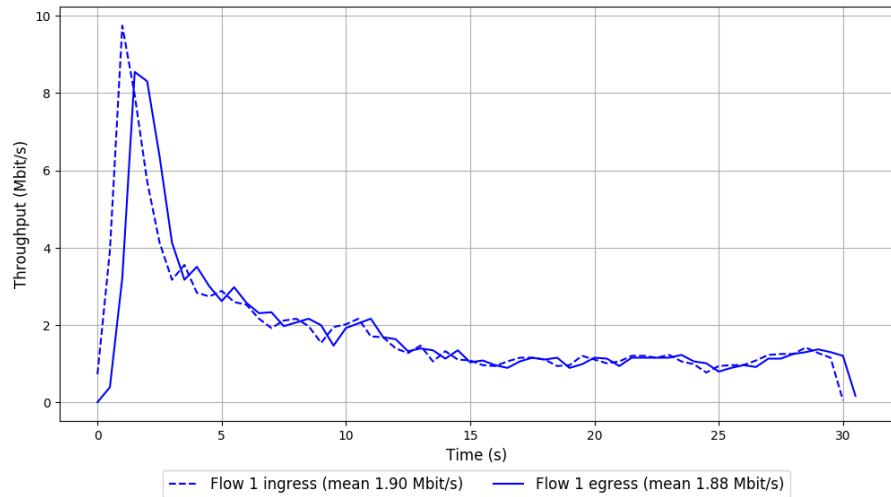


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-07-11 22:47:23
End at: 2019-07-11 22:47:53
Local clock offset: -1.739 ms
Remote clock offset: -14.96 ms

# Below is generated by plot.py at 2019-07-12 01:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 90.640 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 90.640 ms
Loss rate: 1.26%
```

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

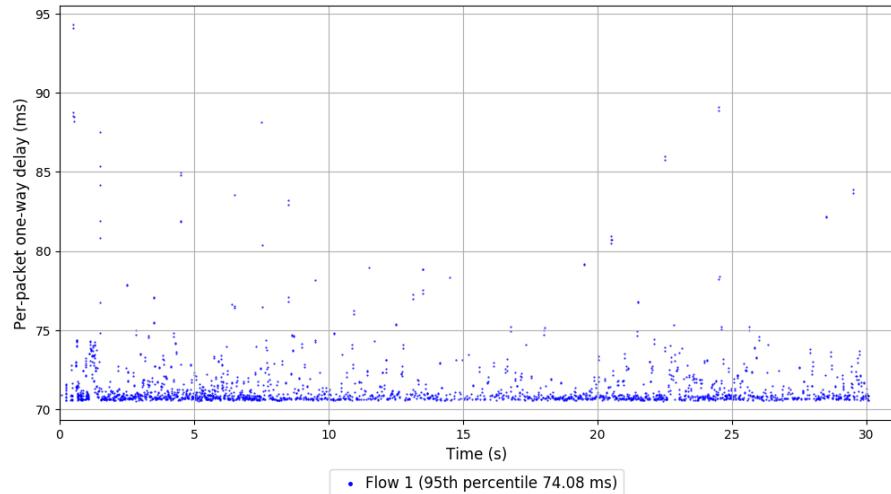
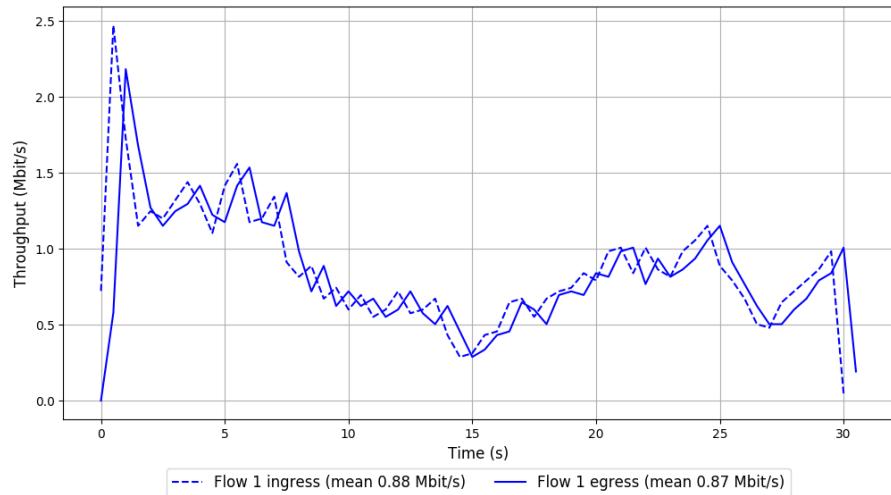


Run 2: Statistics of TCP Cubic

```
Start at: 2019-07-11 23:15:15
End at: 2019-07-11 23:15:45
Local clock offset: -1.139 ms
Remote clock offset: -8.882 ms

# Below is generated by plot.py at 2019-07-12 01:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 74.080 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 74.080 ms
Loss rate: 1.85%
```

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

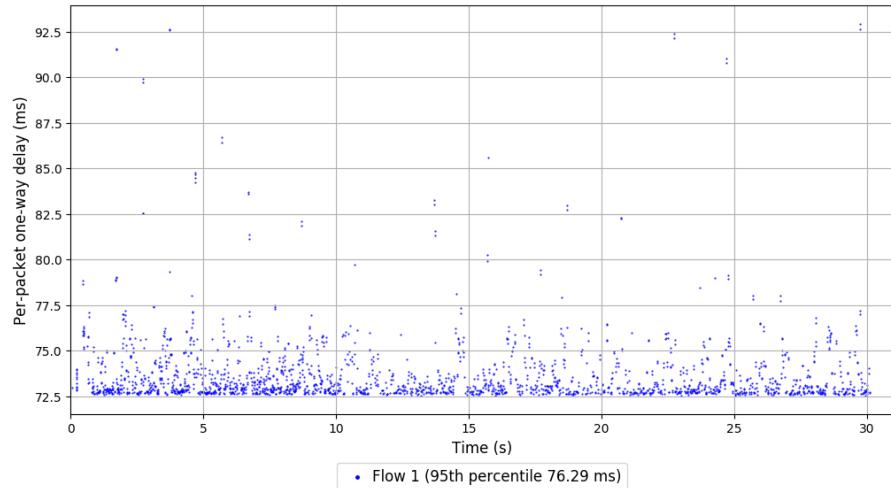
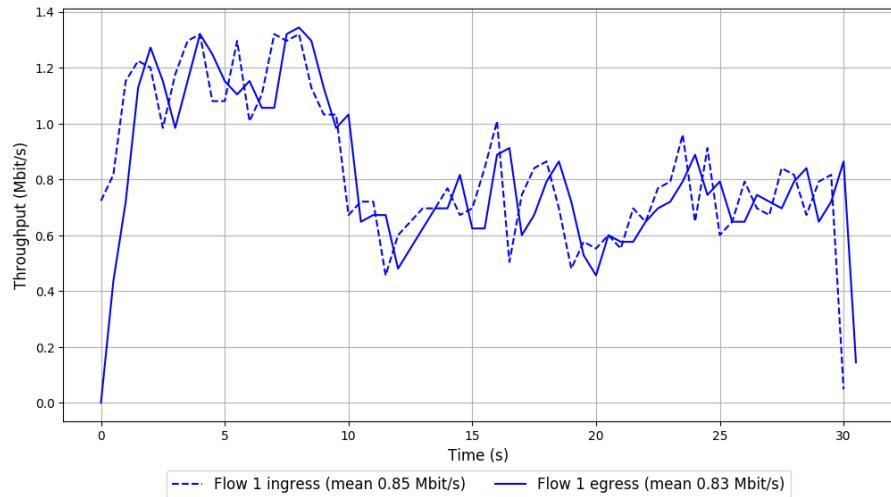


Run 3: Statistics of TCP Cubic

```
Start at: 2019-07-11 23:43:20
End at: 2019-07-11 23:43:50
Local clock offset: -1.643 ms
Remote clock offset: -5.283 ms

# Below is generated by plot.py at 2019-07-12 01:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 76.290 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 76.290 ms
Loss rate: 1.84%
```

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

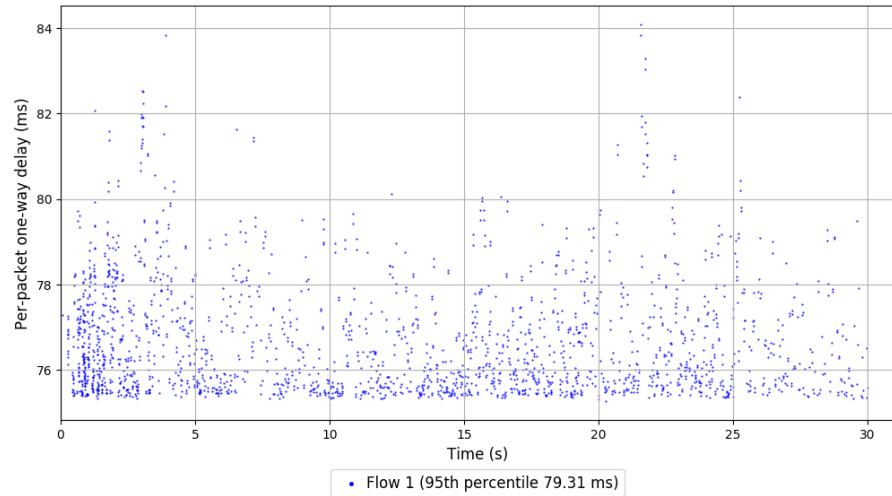
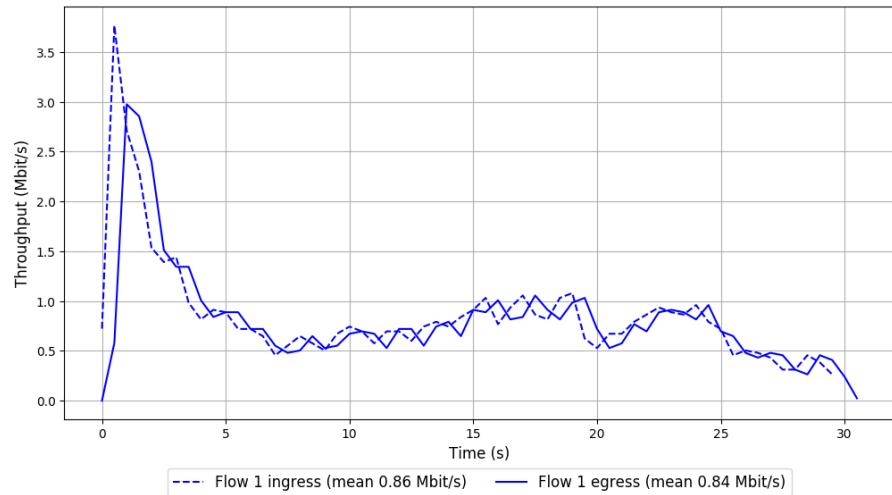


Run 4: Statistics of TCP Cubic

```
Start at: 2019-07-12 00:11:37
End at: 2019-07-12 00:12:07
Local clock offset: -2.149 ms
Remote clock offset: -6.32 ms

# Below is generated by plot.py at 2019-07-12 01:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 79.306 ms
Loss rate: 2.94%
-- Flow 1:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 79.306 ms
Loss rate: 2.94%
```

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

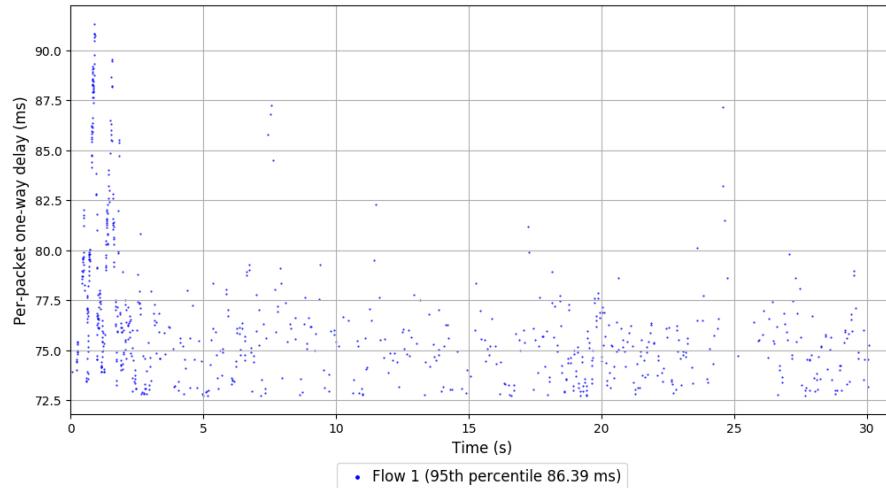
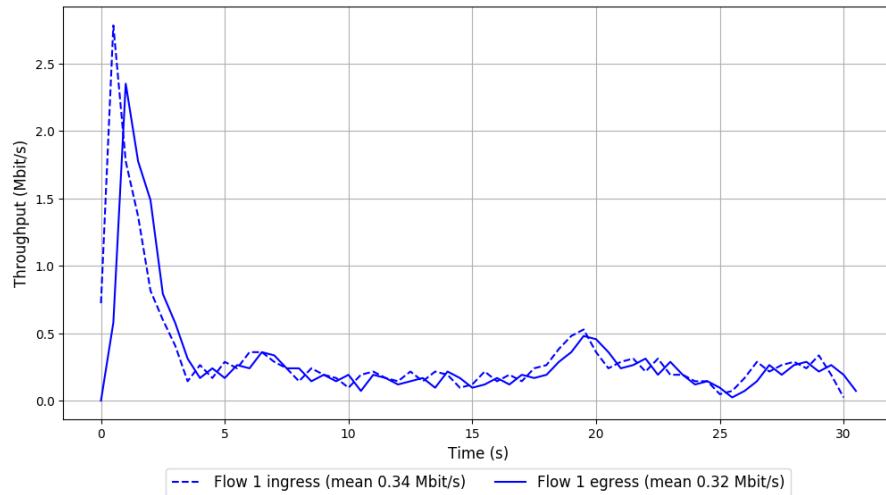


Run 5: Statistics of TCP Cubic

```
Start at: 2019-07-12 00:39:52
End at: 2019-07-12 00:40:22
Local clock offset: -1.668 ms
Remote clock offset: -4.791 ms

# Below is generated by plot.py at 2019-07-12 01:02:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 86.388 ms
Loss rate: 7.38%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 86.388 ms
Loss rate: 7.38%
```

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

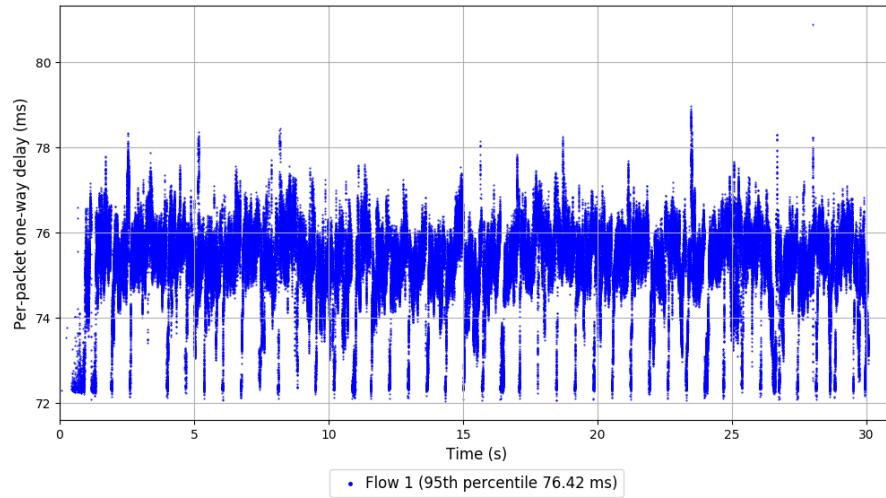
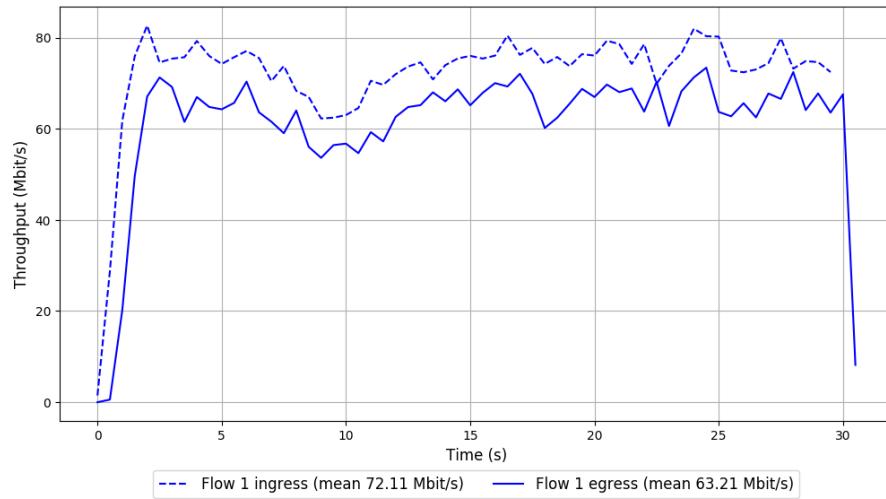


Run 1: Statistics of FillP

```
Start at: 2019-07-11 23:04:55
End at: 2019-07-11 23:05:25
Local clock offset: -1.403 ms
Remote clock offset: -8.007 ms

# Below is generated by plot.py at 2019-07-12 01:02:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.21 Mbit/s
95th percentile per-packet one-way delay: 76.420 ms
Loss rate: 12.35%
-- Flow 1:
Average throughput: 63.21 Mbit/s
95th percentile per-packet one-way delay: 76.420 ms
Loss rate: 12.35%
```

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

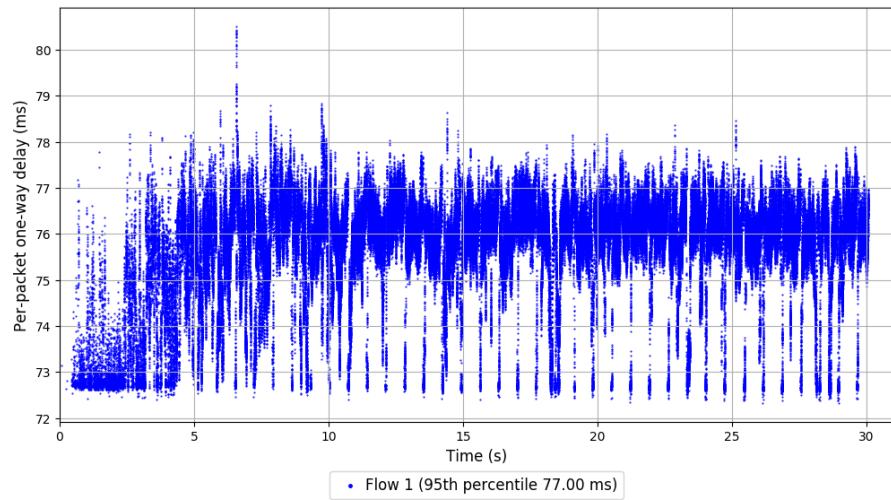
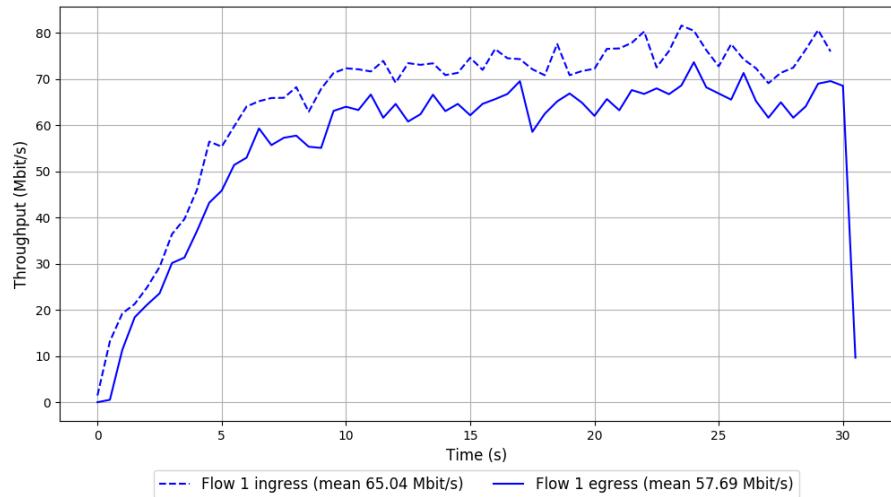


Run 2: Statistics of FillP

```
Start at: 2019-07-11 23:32:47
End at: 2019-07-11 23:33:17
Local clock offset: -0.823 ms
Remote clock offset: -7.307 ms

# Below is generated by plot.py at 2019-07-12 01:02:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.69 Mbit/s
95th percentile per-packet one-way delay: 77.004 ms
Loss rate: 11.29%
-- Flow 1:
Average throughput: 57.69 Mbit/s
95th percentile per-packet one-way delay: 77.004 ms
Loss rate: 11.29%
```

## Run 2: Report of FillP — Data Link

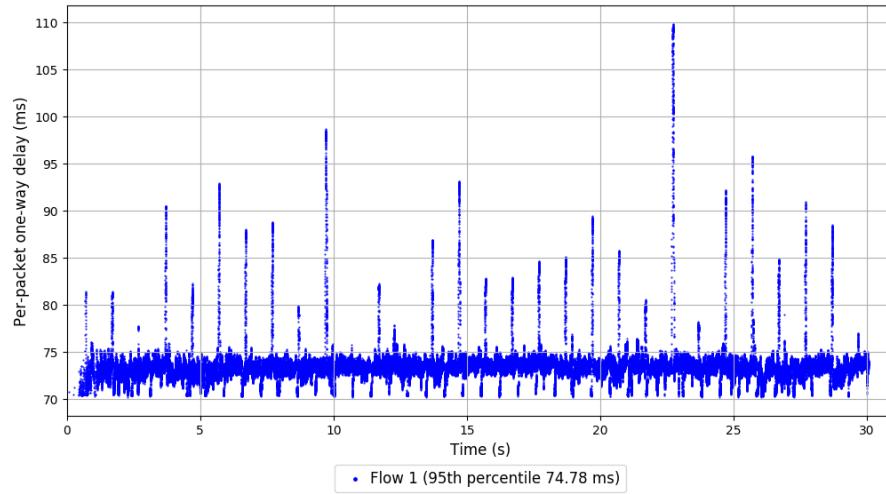
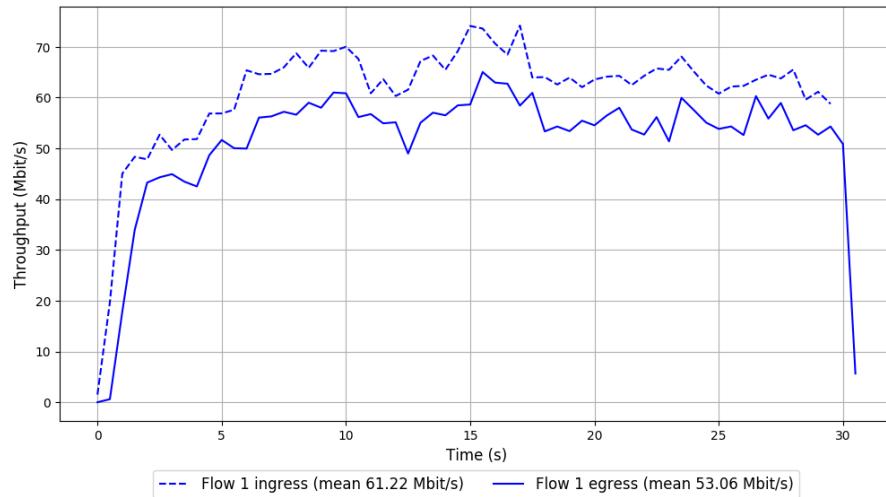


Run 3: Statistics of FillP

```
Start at: 2019-07-12 00:01:04
End at: 2019-07-12 00:01:34
Local clock offset: -2.166 ms
Remote clock offset: -7.763 ms

# Below is generated by plot.py at 2019-07-12 01:02:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.06 Mbit/s
95th percentile per-packet one-way delay: 74.776 ms
Loss rate: 13.32%
-- Flow 1:
Average throughput: 53.06 Mbit/s
95th percentile per-packet one-way delay: 74.776 ms
Loss rate: 13.32%
```

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

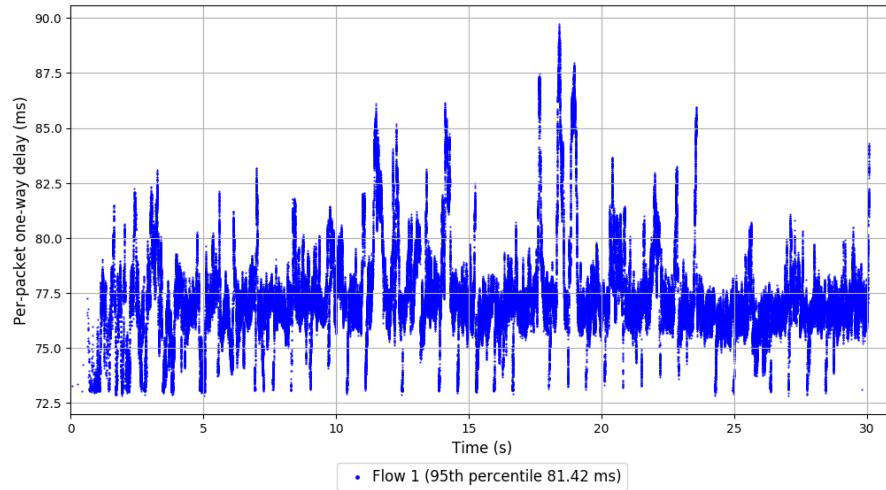
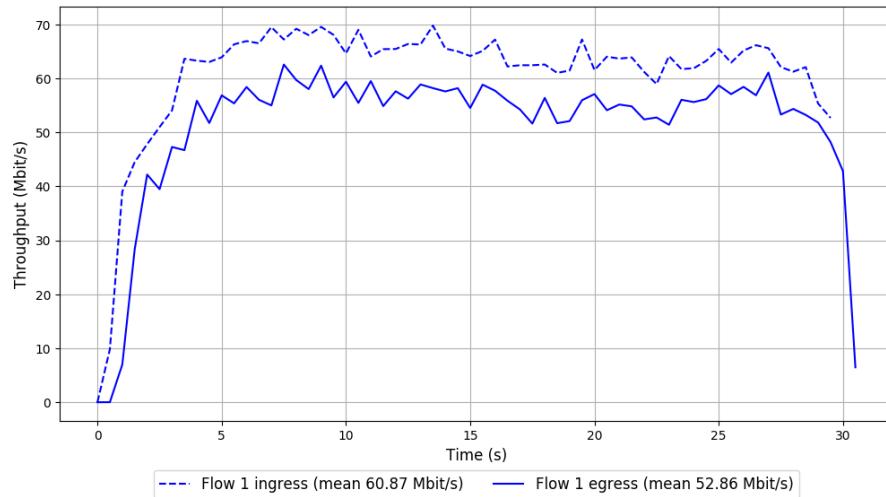


Run 4: Statistics of FillP

```
Start at: 2019-07-12 00:29:13
End at: 2019-07-12 00:29:43
Local clock offset: -1.89 ms
Remote clock offset: -4.221 ms

# Below is generated by plot.py at 2019-07-12 01:02:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.86 Mbit/s
95th percentile per-packet one-way delay: 81.424 ms
Loss rate: 13.13%
-- Flow 1:
Average throughput: 52.86 Mbit/s
95th percentile per-packet one-way delay: 81.424 ms
Loss rate: 13.13%
```

## Run 4: Report of FillP — Data Link

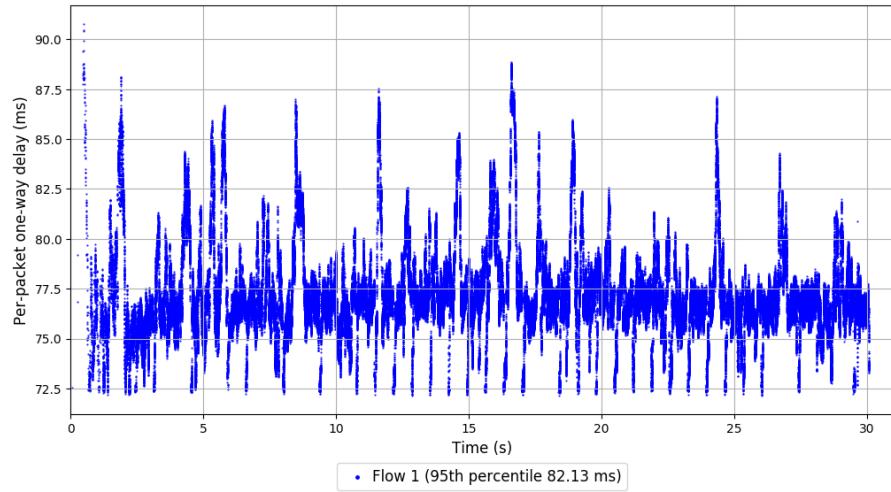
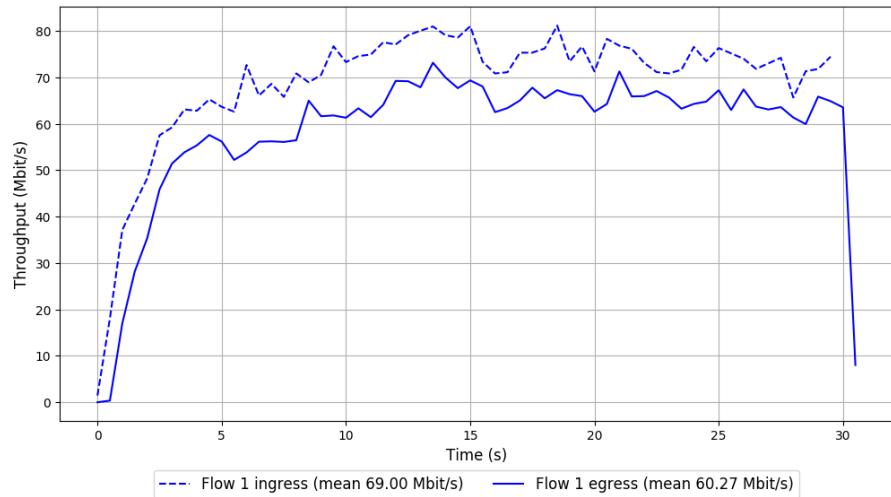


Run 5: Statistics of FillP

```
Start at: 2019-07-12 00:57:26
End at: 2019-07-12 00:57:56
Local clock offset: -1.35 ms
Remote clock offset: -4.805 ms

# Below is generated by plot.py at 2019-07-12 01:02:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.27 Mbit/s
95th percentile per-packet one-way delay: 82.126 ms
Loss rate: 12.65%
-- Flow 1:
Average throughput: 60.27 Mbit/s
95th percentile per-packet one-way delay: 82.126 ms
Loss rate: 12.65%
```

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

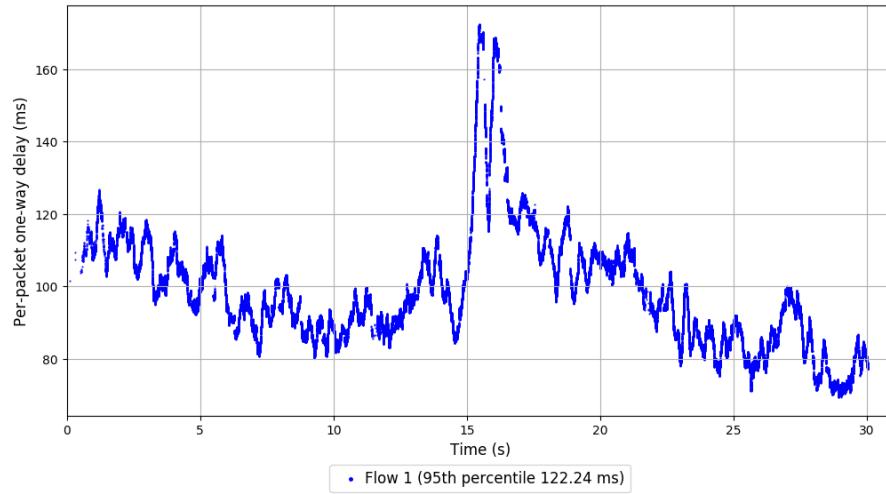
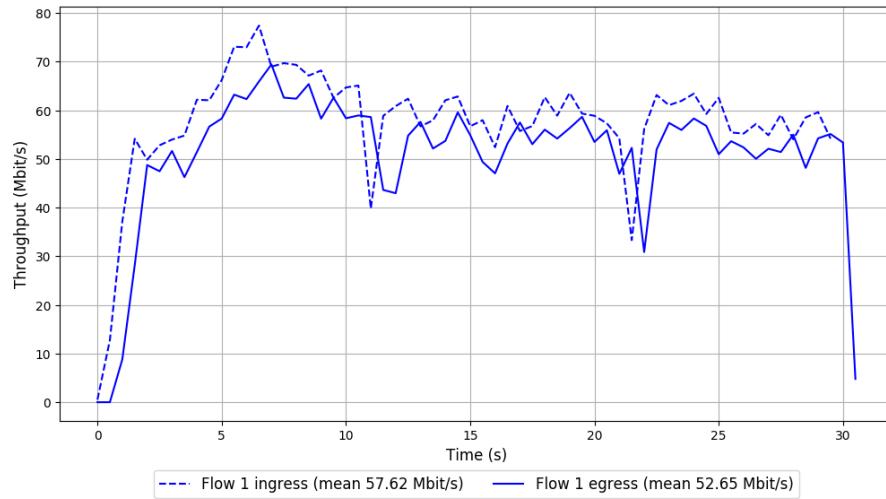


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-07-11 22:55:37
End at: 2019-07-11 22:56:07
Local clock offset: -1.589 ms
Remote clock offset: -11.475 ms

# Below is generated by plot.py at 2019-07-12 01:02:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.65 Mbit/s
95th percentile per-packet one-way delay: 122.242 ms
Loss rate: 8.70%
-- Flow 1:
Average throughput: 52.65 Mbit/s
95th percentile per-packet one-way delay: 122.242 ms
Loss rate: 8.70%
```

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

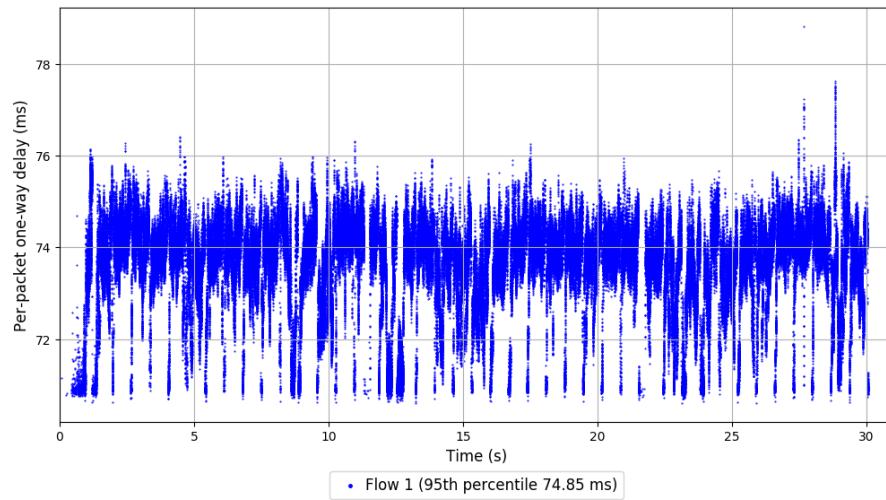
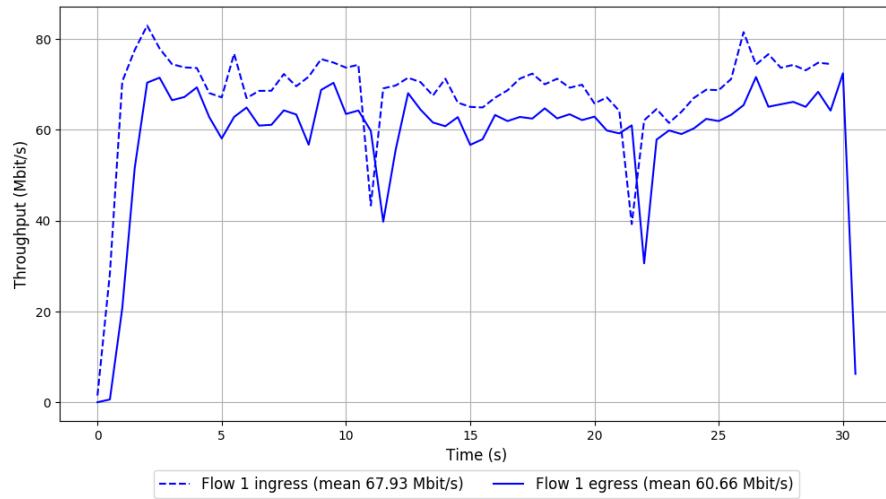


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-07-11 23:23:27
End at: 2019-07-11 23:23:57
Local clock offset: -0.203 ms
Remote clock offset: -8.284 ms

# Below is generated by plot.py at 2019-07-12 01:02:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.66 Mbit/s
95th percentile per-packet one-way delay: 74.851 ms
Loss rate: 10.69%
-- Flow 1:
Average throughput: 60.66 Mbit/s
95th percentile per-packet one-way delay: 74.851 ms
Loss rate: 10.69%
```

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

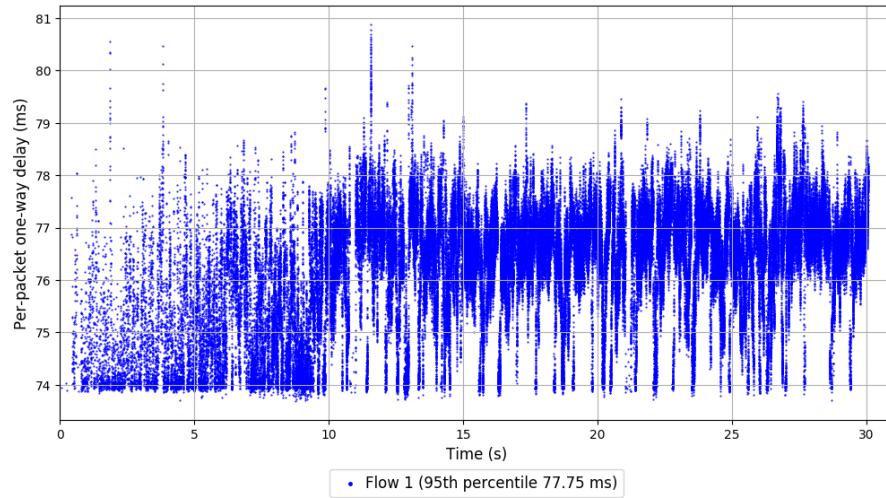
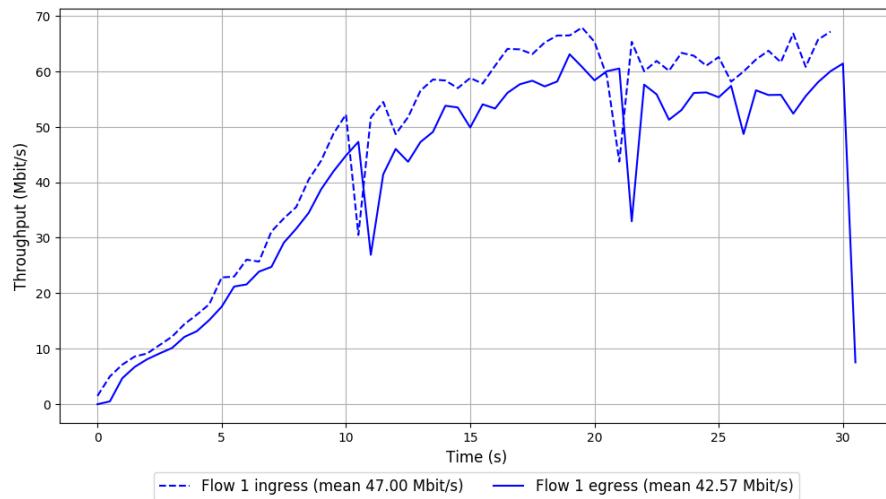


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-07-11 23:51:37
End at: 2019-07-11 23:52:07
Local clock offset: -1.929 ms
Remote clock offset: -6.32 ms

# Below is generated by plot.py at 2019-07-12 01:02:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.57 Mbit/s
95th percentile per-packet one-way delay: 77.745 ms
Loss rate: 9.43%
-- Flow 1:
Average throughput: 42.57 Mbit/s
95th percentile per-packet one-way delay: 77.745 ms
Loss rate: 9.43%
```

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

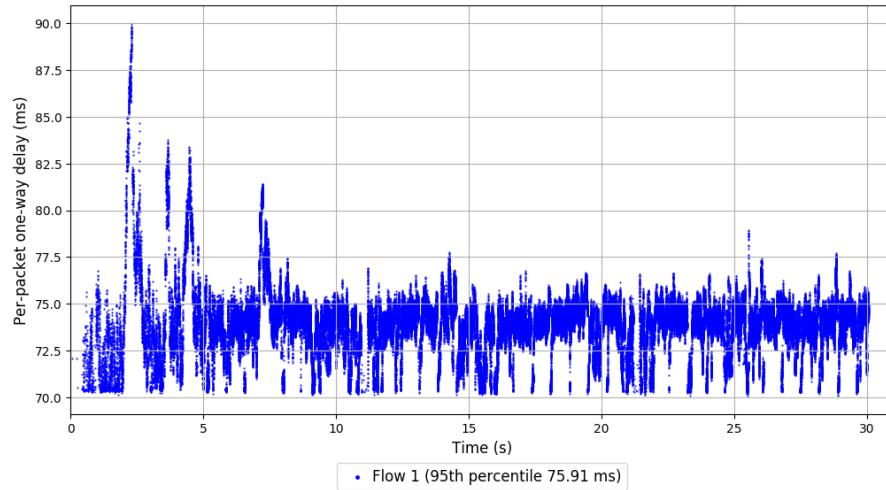
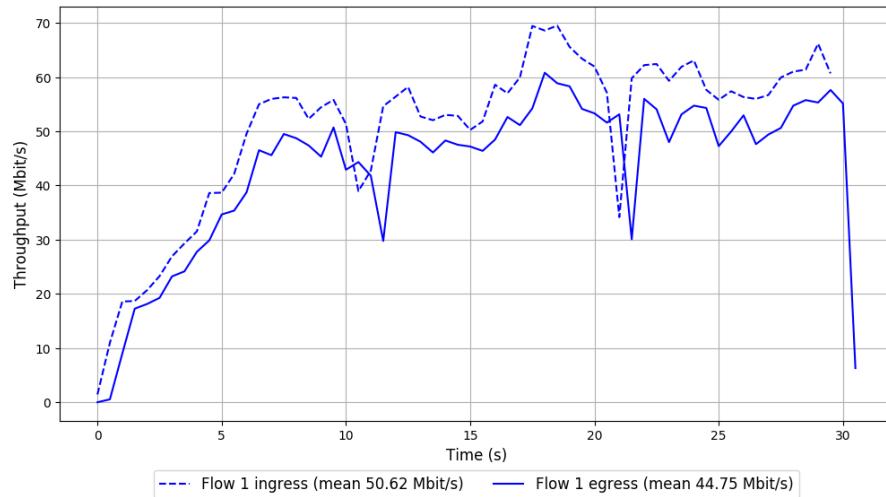


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-07-12 00:19:54
End at: 2019-07-12 00:20:24
Local clock offset: -2.7 ms
Remote clock offset: -10.173 ms

# Below is generated by plot.py at 2019-07-12 01:03:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.75 Mbit/s
95th percentile per-packet one-way delay: 75.913 ms
Loss rate: 11.59%
-- Flow 1:
Average throughput: 44.75 Mbit/s
95th percentile per-packet one-way delay: 75.913 ms
Loss rate: 11.59%
```

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

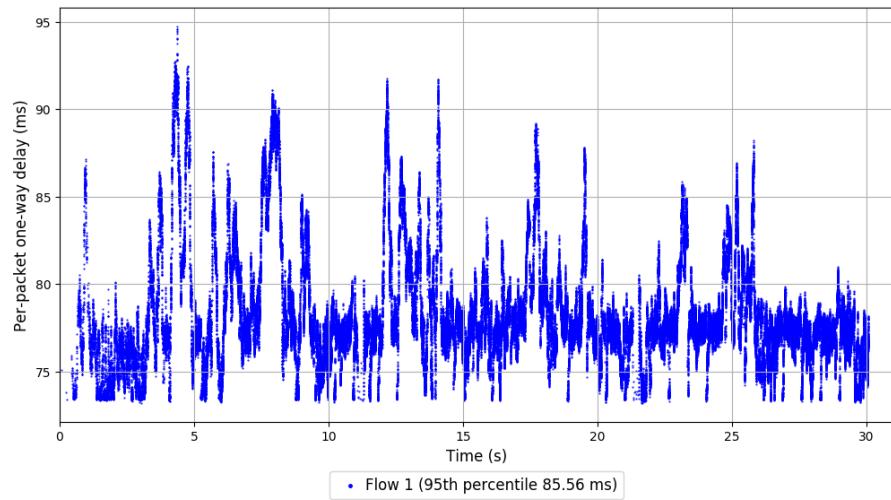
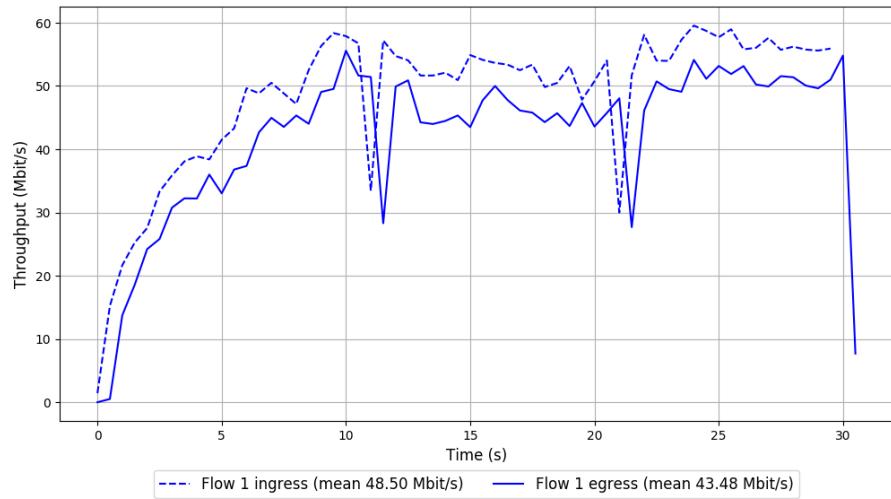


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-07-12 00:48:04
End at: 2019-07-12 00:48:34
Local clock offset: -1.45 ms
Remote clock offset: -4.98 ms

# Below is generated by plot.py at 2019-07-12 01:03:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.48 Mbit/s
95th percentile per-packet one-way delay: 85.557 ms
Loss rate: 10.36%
-- Flow 1:
Average throughput: 43.48 Mbit/s
95th percentile per-packet one-way delay: 85.557 ms
Loss rate: 10.36%
```

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

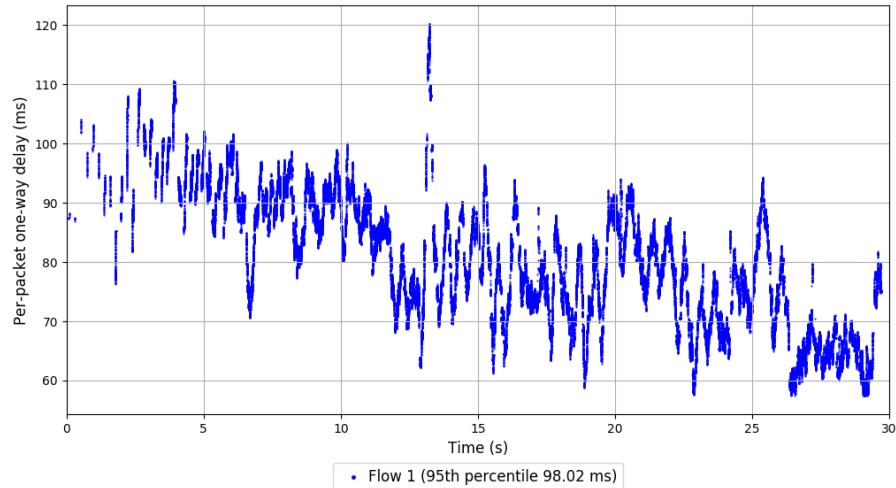
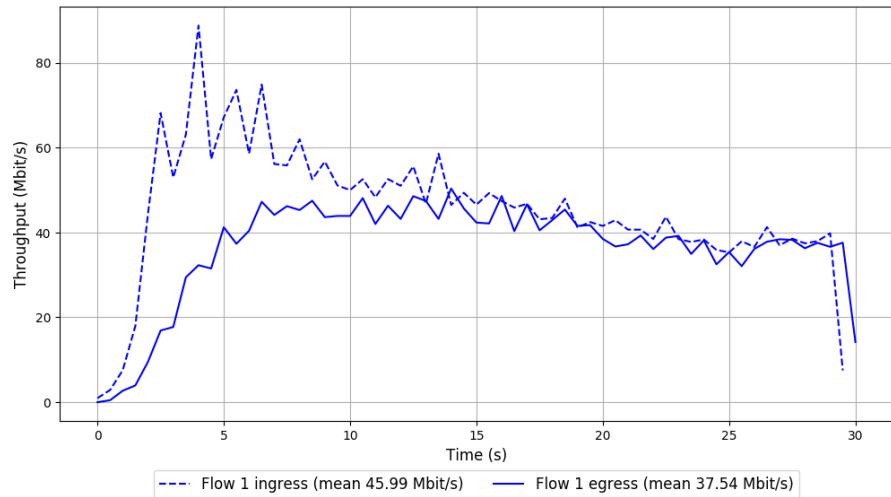


Run 1: Statistics of Indigo

```
Start at: 2019-07-11 22:53:14
End at: 2019-07-11 22:53:44
Local clock offset: -1.087 ms
Remote clock offset: -22.338 ms

# Below is generated by plot.py at 2019-07-12 01:03:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.54 Mbit/s
95th percentile per-packet one-way delay: 98.015 ms
Loss rate: 18.40%
-- Flow 1:
Average throughput: 37.54 Mbit/s
95th percentile per-packet one-way delay: 98.015 ms
Loss rate: 18.40%
```

## Run 1: Report of Indigo — Data Link

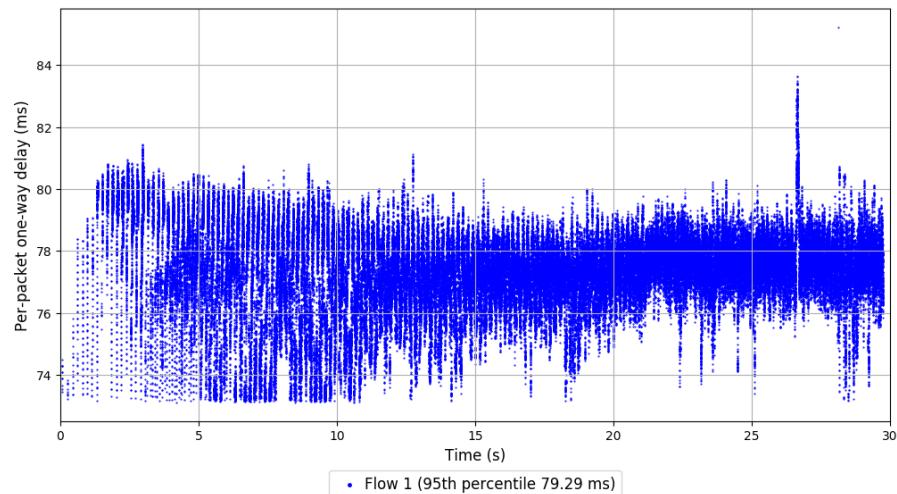
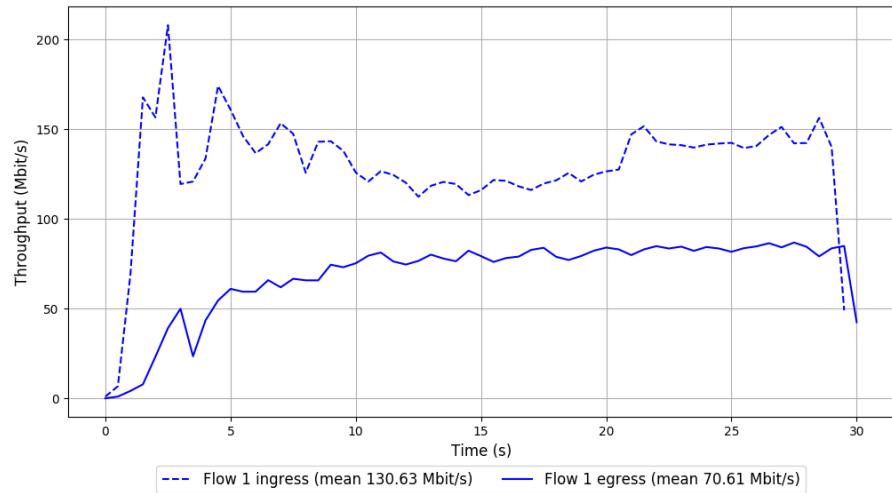


Run 2: Statistics of Indigo

```
Start at: 2019-07-11 23:21:03
End at: 2019-07-11 23:21:33
Local clock offset: -0.935 ms
Remote clock offset: -8.284 ms

# Below is generated by plot.py at 2019-07-12 01:03:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.61 Mbit/s
95th percentile per-packet one-way delay: 79.291 ms
Loss rate: 45.94%
-- Flow 1:
Average throughput: 70.61 Mbit/s
95th percentile per-packet one-way delay: 79.291 ms
Loss rate: 45.94%
```

## Run 2: Report of Indigo — Data Link

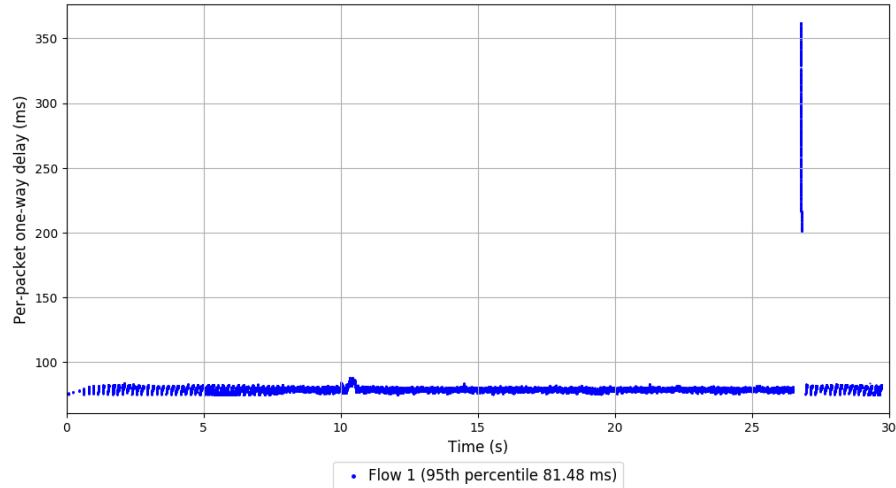
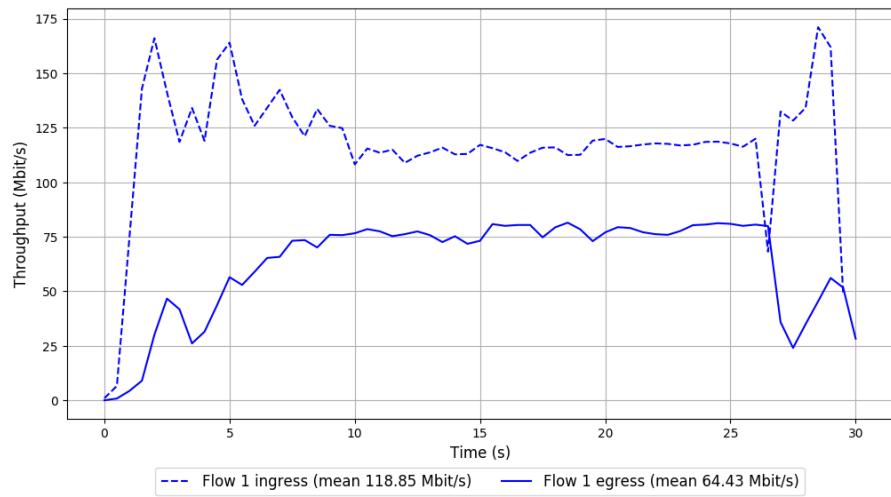


Run 3: Statistics of Indigo

```
Start at: 2019-07-11 23:49:13
End at: 2019-07-11 23:49:43
Local clock offset: -1.827 ms
Remote clock offset: -5.275 ms

# Below is generated by plot.py at 2019-07-12 01:03:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.43 Mbit/s
95th percentile per-packet one-way delay: 81.477 ms
Loss rate: 45.78%
-- Flow 1:
Average throughput: 64.43 Mbit/s
95th percentile per-packet one-way delay: 81.477 ms
Loss rate: 45.78%
```

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

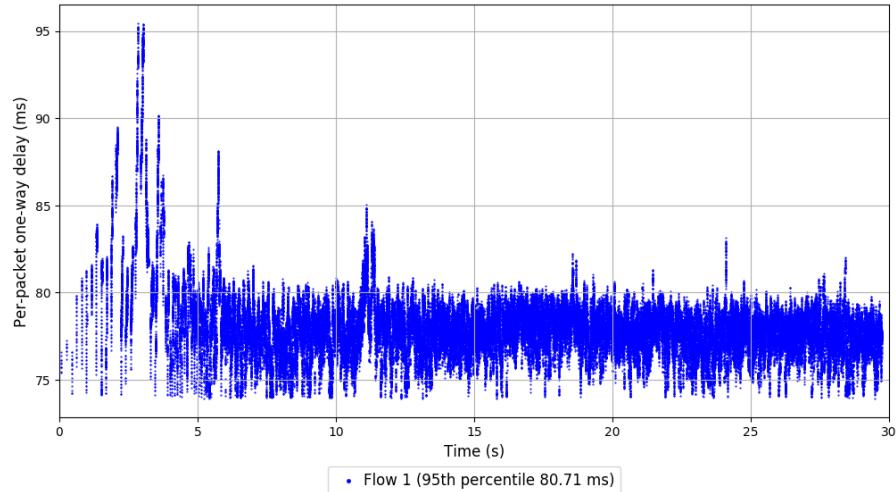
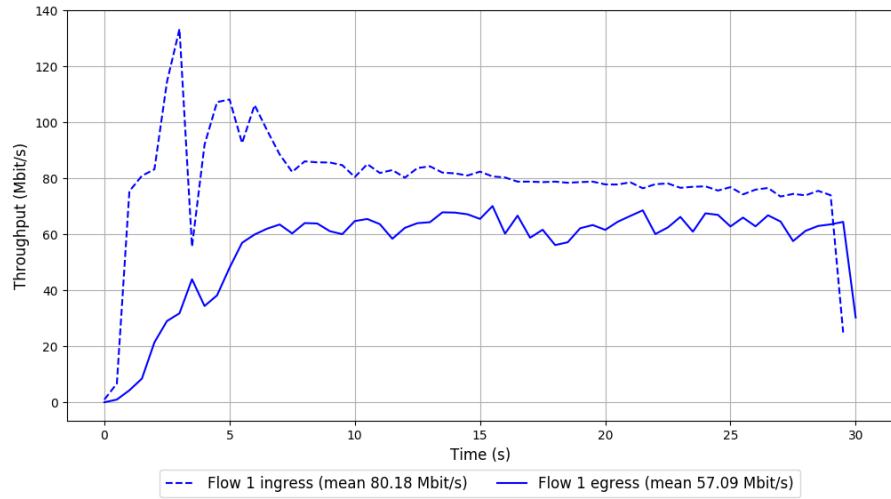


Run 4: Statistics of Indigo

```
Start at: 2019-07-12 00:17:30
End at: 2019-07-12 00:18:00
Local clock offset: -2.711 ms
Remote clock offset: -6.283 ms

# Below is generated by plot.py at 2019-07-12 01:03:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.09 Mbit/s
95th percentile per-packet one-way delay: 80.712 ms
Loss rate: 28.79%
-- Flow 1:
Average throughput: 57.09 Mbit/s
95th percentile per-packet one-way delay: 80.712 ms
Loss rate: 28.79%
```

## Run 4: Report of Indigo — Data Link

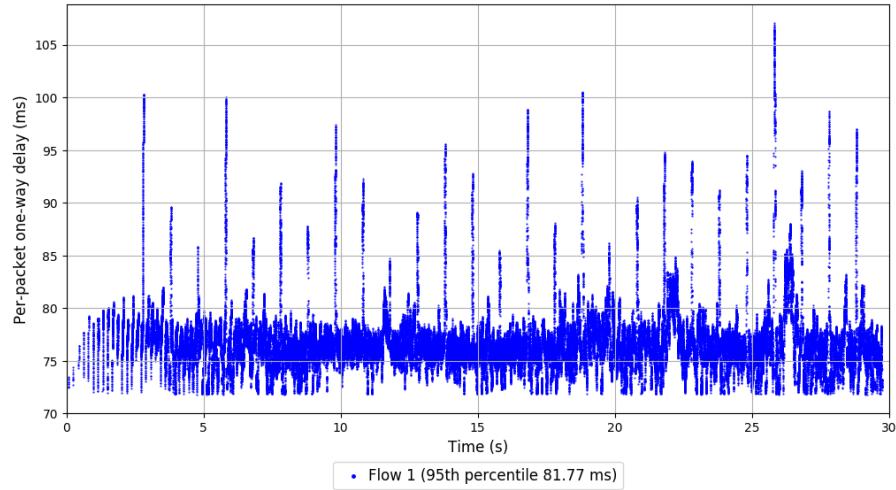
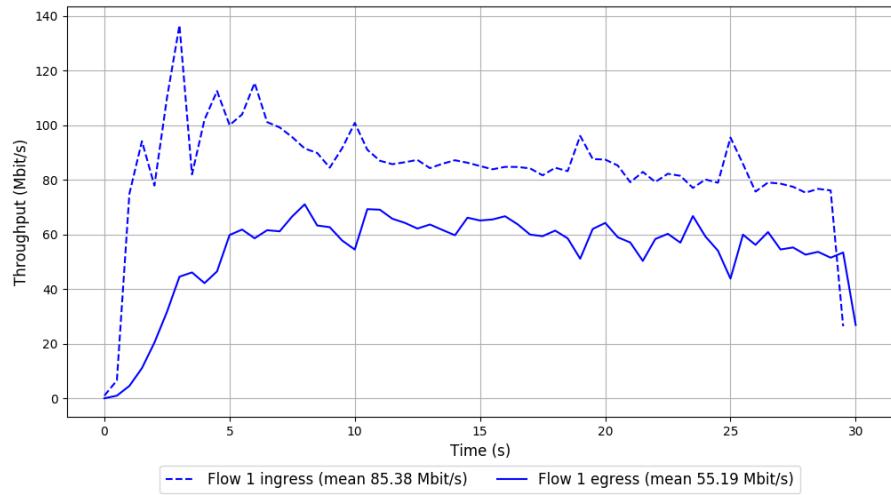


Run 5: Statistics of Indigo

```
Start at: 2019-07-12 00:45:40
End at: 2019-07-12 00:46:10
Local clock offset: -1.352 ms
Remote clock offset: -5.294 ms

# Below is generated by plot.py at 2019-07-12 01:03:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.19 Mbit/s
95th percentile per-packet one-way delay: 81.770 ms
Loss rate: 35.36%
-- Flow 1:
Average throughput: 55.19 Mbit/s
95th percentile per-packet one-way delay: 81.770 ms
Loss rate: 35.36%
```

## Run 5: Report of Indigo — Data Link

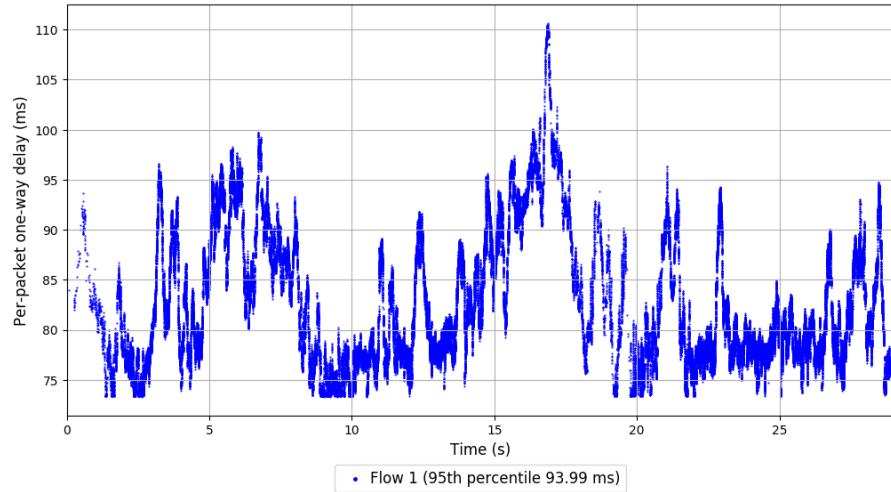
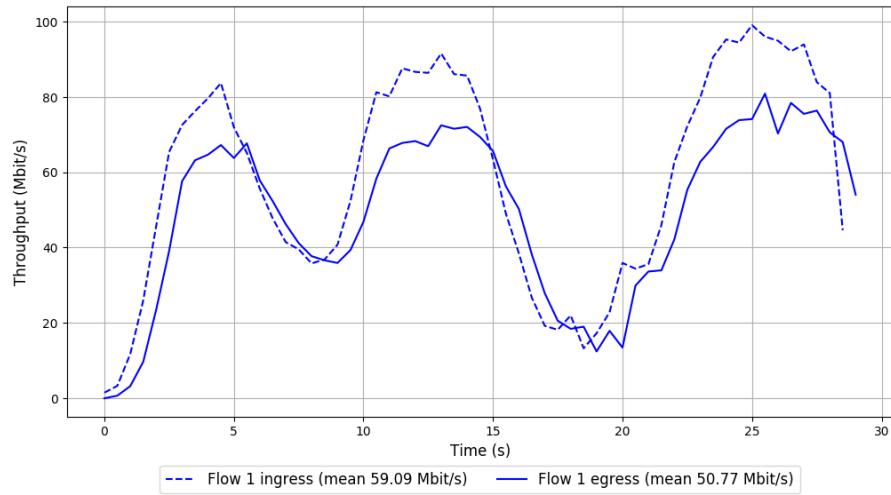


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-07-11 22:48:31
End at: 2019-07-11 22:49:01
Local clock offset: -1.736 ms
Remote clock offset: -9.302 ms

# Below is generated by plot.py at 2019-07-12 01:03:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.77 Mbit/s
95th percentile per-packet one-way delay: 93.986 ms
Loss rate: 14.11%
-- Flow 1:
Average throughput: 50.77 Mbit/s
95th percentile per-packet one-way delay: 93.986 ms
Loss rate: 14.11%
```

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

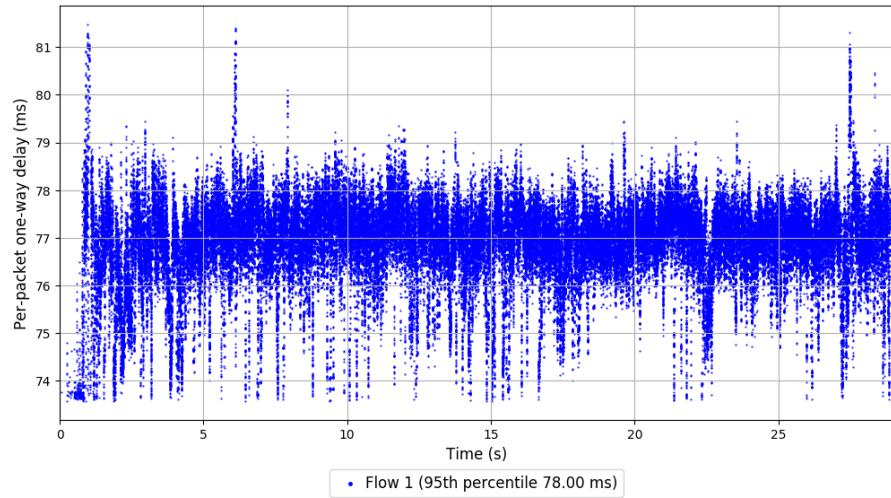
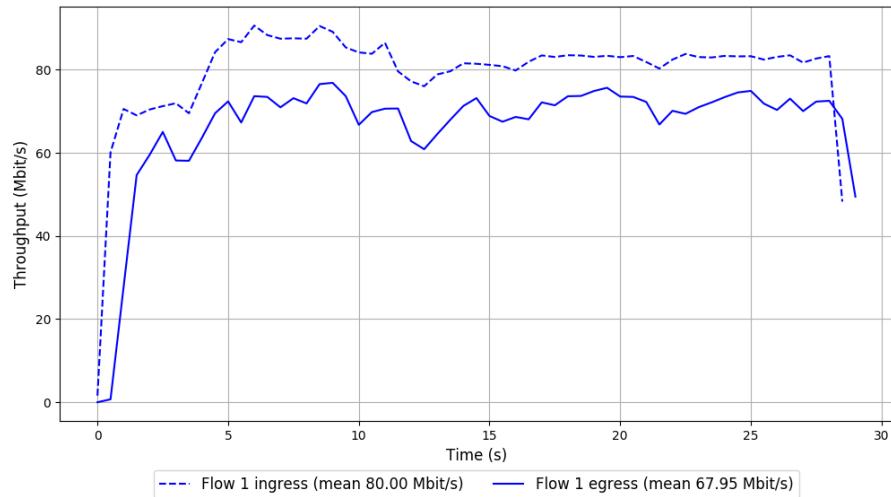


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-07-11 23:16:23
End at: 2019-07-11 23:16:53
Local clock offset: -0.231 ms
Remote clock offset: -8.473 ms

# Below is generated by plot.py at 2019-07-12 01:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.95 Mbit/s
95th percentile per-packet one-way delay: 78.001 ms
Loss rate: 15.05%
-- Flow 1:
Average throughput: 67.95 Mbit/s
95th percentile per-packet one-way delay: 78.001 ms
Loss rate: 15.05%
```

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

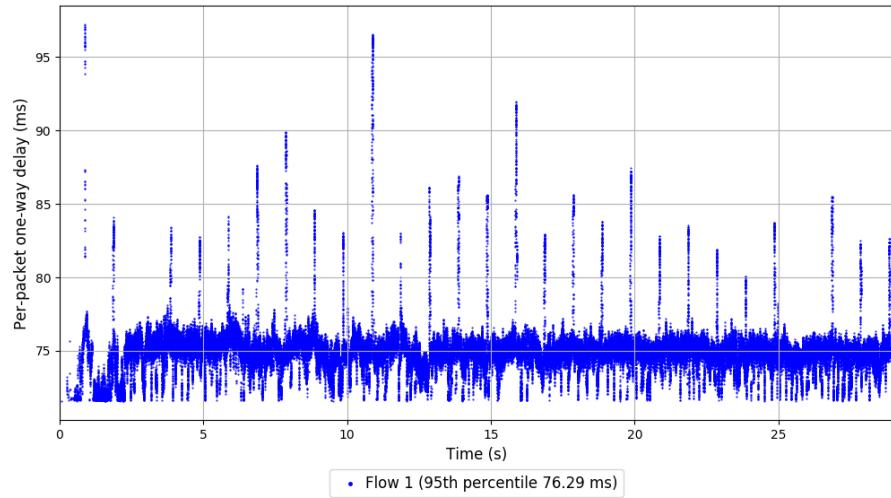
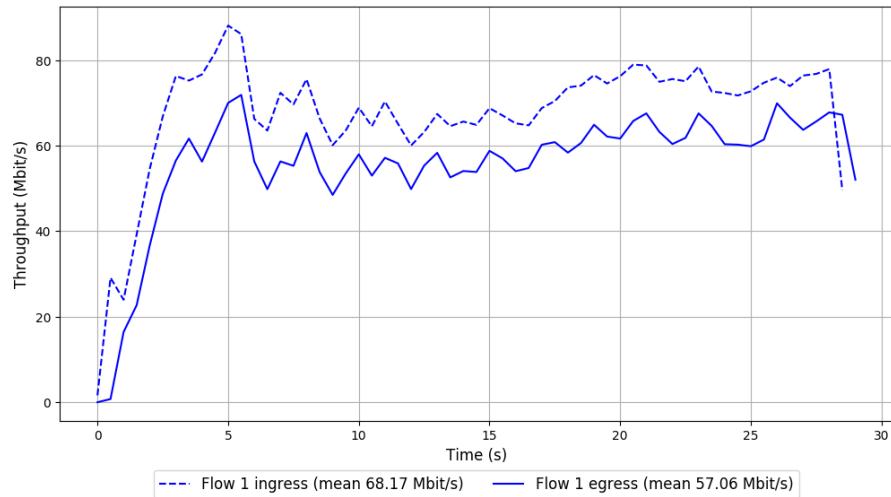


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-07-11 23:44:28
End at: 2019-07-11 23:44:58
Local clock offset: -1.722 ms
Remote clock offset: -7.0 ms

# Below is generated by plot.py at 2019-07-12 01:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.06 Mbit/s
95th percentile per-packet one-way delay: 76.287 ms
Loss rate: 16.28%
-- Flow 1:
Average throughput: 57.06 Mbit/s
95th percentile per-packet one-way delay: 76.287 ms
Loss rate: 16.28%
```

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

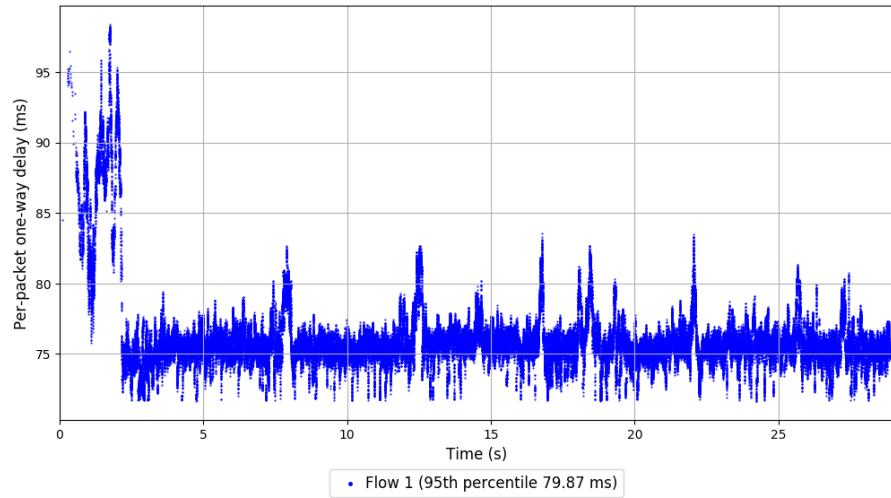
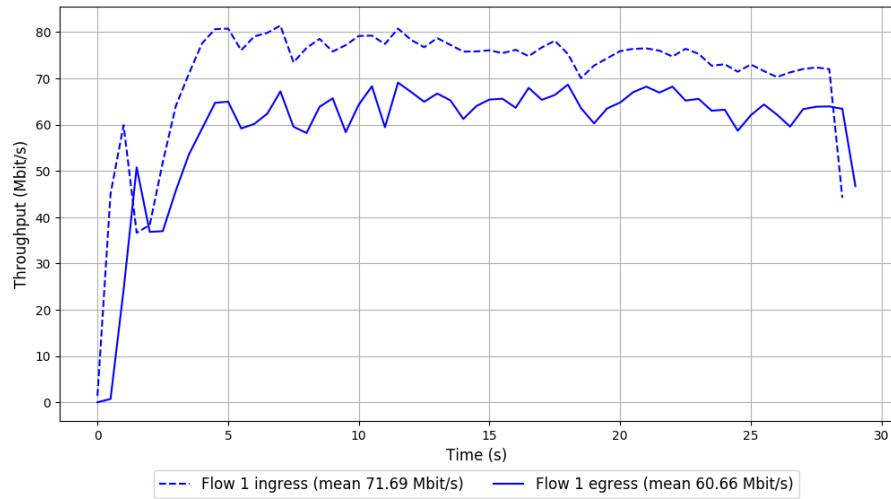


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 00:12:45
End at: 2019-07-12 00:13:15
Local clock offset: -2.703 ms
Remote clock offset: -7.153 ms

# Below is generated by plot.py at 2019-07-12 01:03:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.66 Mbit/s
95th percentile per-packet one-way delay: 79.869 ms
Loss rate: 15.40%
-- Flow 1:
Average throughput: 60.66 Mbit/s
95th percentile per-packet one-way delay: 79.869 ms
Loss rate: 15.40%
```

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

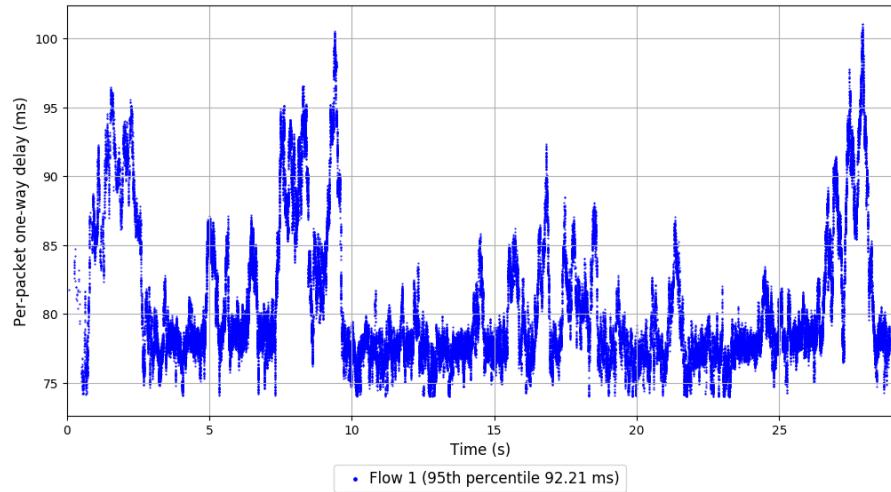
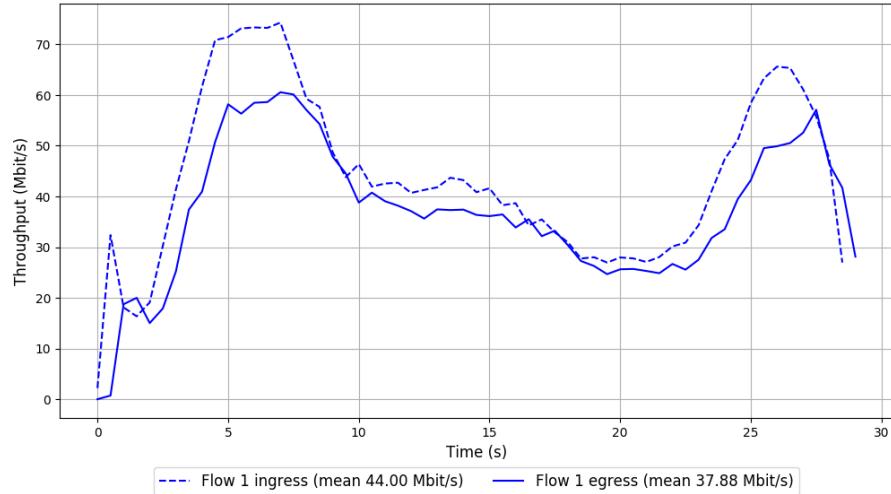


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 00:41:00
End at: 2019-07-12 00:41:30
Local clock offset: -2.402 ms
Remote clock offset: -4.213 ms

# Below is generated by plot.py at 2019-07-12 01:04:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.88 Mbit/s
95th percentile per-packet one-way delay: 92.211 ms
Loss rate: 13.92%
-- Flow 1:
Average throughput: 37.88 Mbit/s
95th percentile per-packet one-way delay: 92.211 ms
Loss rate: 13.92%
```

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

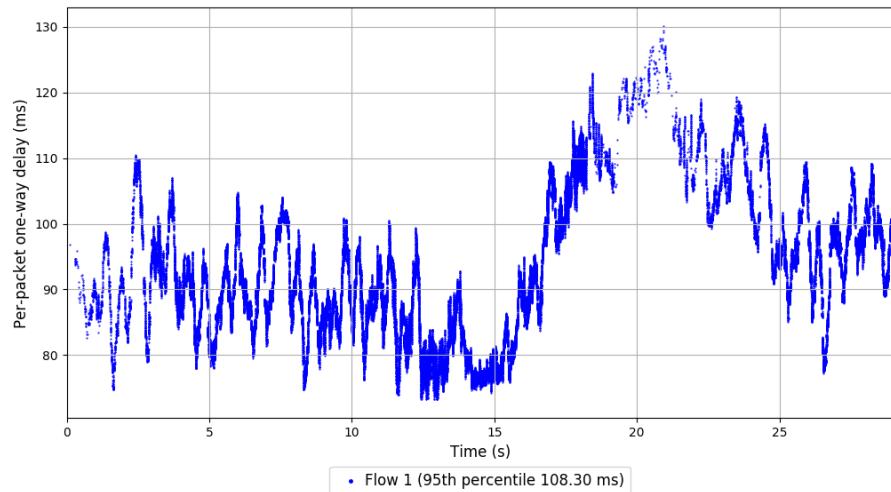
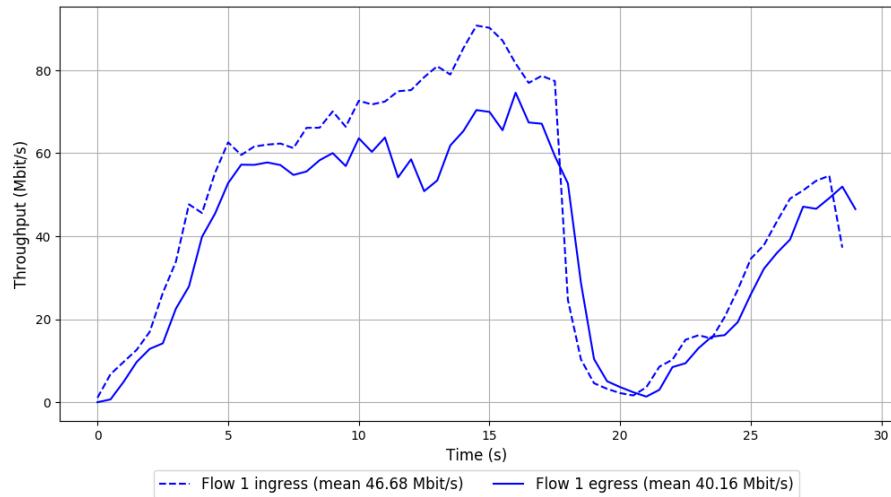


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-07-11 22:43:46
End at: 2019-07-11 22:44:16
Local clock offset: -1.676 ms
Remote clock offset: -8.906 ms

# Below is generated by plot.py at 2019-07-12 01:04:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.16 Mbit/s
95th percentile per-packet one-way delay: 108.296 ms
Loss rate: 13.95%
-- Flow 1:
Average throughput: 40.16 Mbit/s
95th percentile per-packet one-way delay: 108.296 ms
Loss rate: 13.95%
```

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

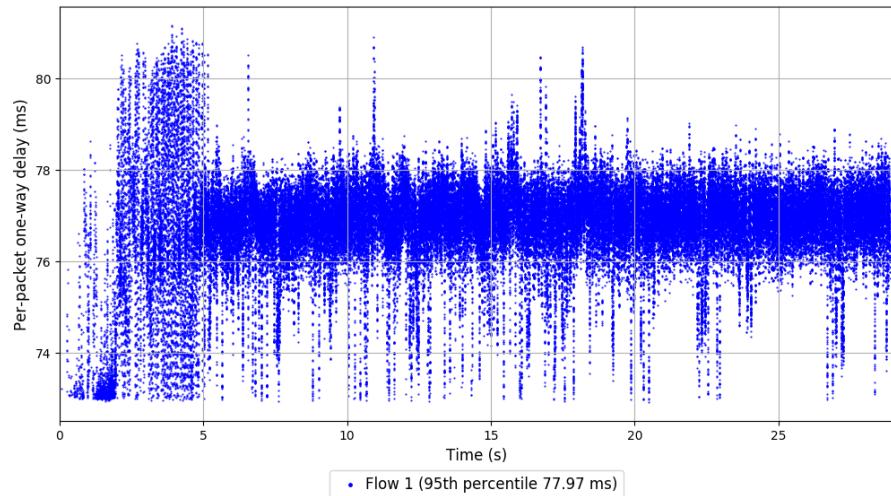
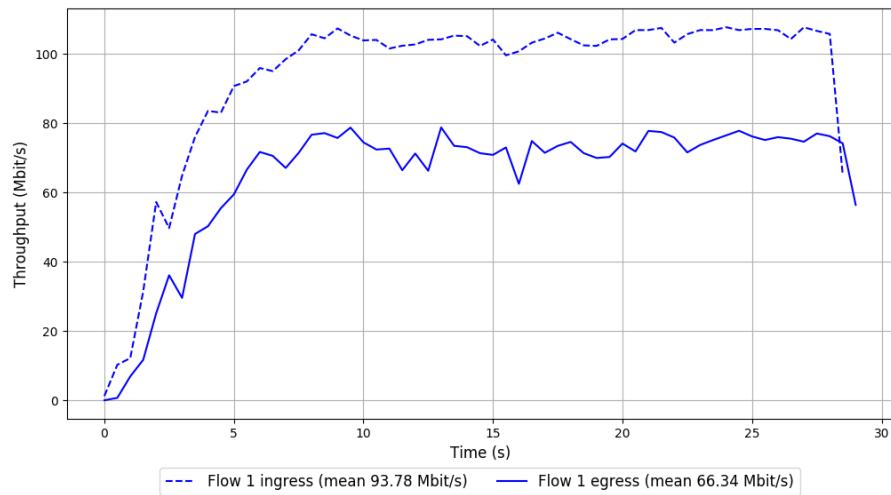


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-07-11 23:11:47
End at: 2019-07-11 23:12:18
Local clock offset: -1.418 ms
Remote clock offset: -9.445 ms

# Below is generated by plot.py at 2019-07-12 01:04:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.34 Mbit/s
95th percentile per-packet one-way delay: 77.972 ms
Loss rate: 29.26%
-- Flow 1:
Average throughput: 66.34 Mbit/s
95th percentile per-packet one-way delay: 77.972 ms
Loss rate: 29.26%
```

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

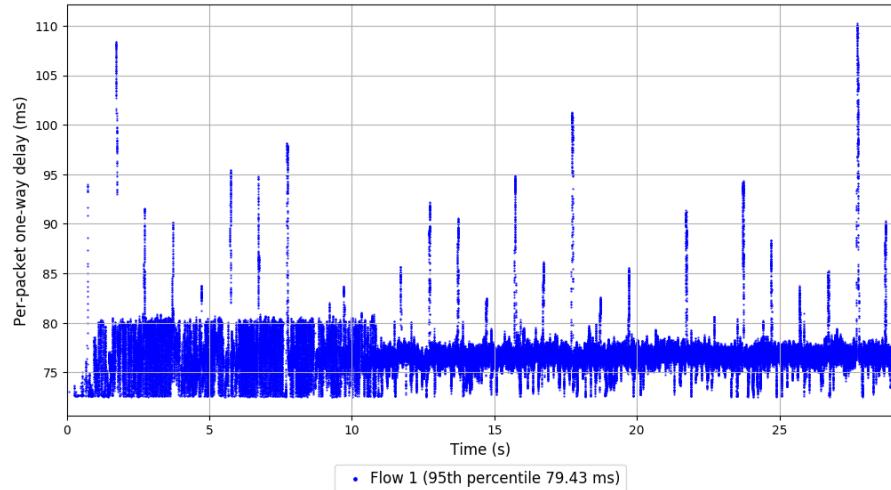
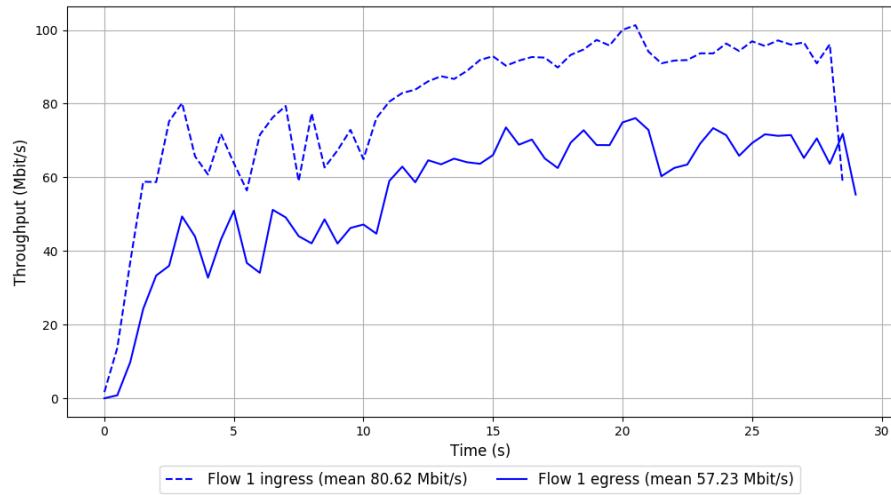


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-07-11 23:39:52
End at: 2019-07-11 23:40:22
Local clock offset: -1.406 ms
Remote clock offset: -5.54 ms

# Below is generated by plot.py at 2019-07-12 01:04:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.23 Mbit/s
95th percentile per-packet one-way delay: 79.434 ms
Loss rate: 29.01%
-- Flow 1:
Average throughput: 57.23 Mbit/s
95th percentile per-packet one-way delay: 79.434 ms
Loss rate: 29.01%
```

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

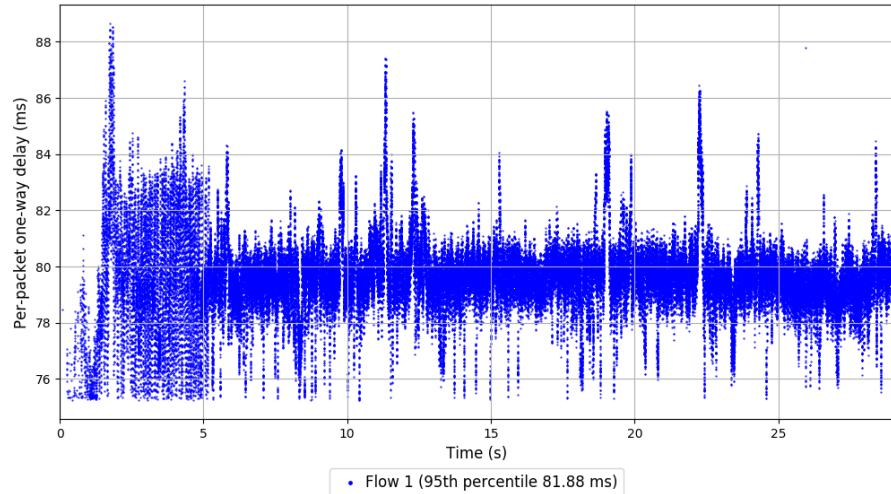
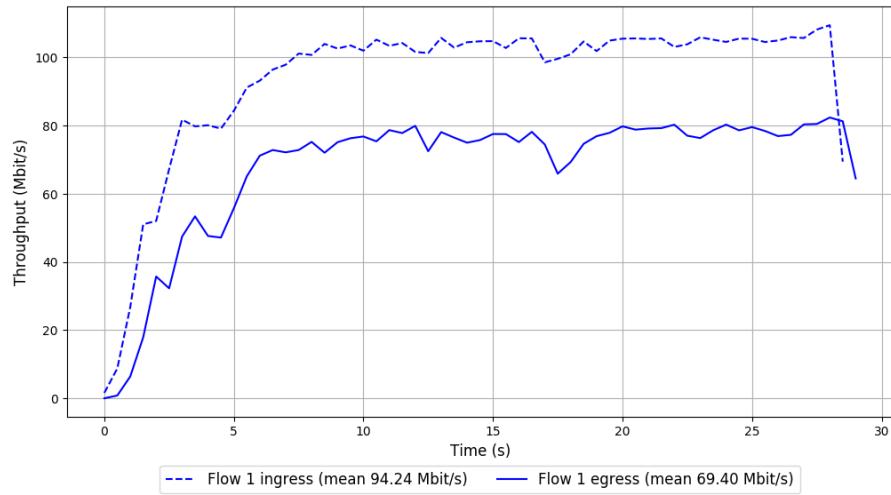


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 00:08:09
End at: 2019-07-12 00:08:39
Local clock offset: -2.782 ms
Remote clock offset: -5.203 ms

# Below is generated by plot.py at 2019-07-12 01:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.40 Mbit/s
95th percentile per-packet one-way delay: 81.884 ms
Loss rate: 26.35%
-- Flow 1:
Average throughput: 69.40 Mbit/s
95th percentile per-packet one-way delay: 81.884 ms
Loss rate: 26.35%
```

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

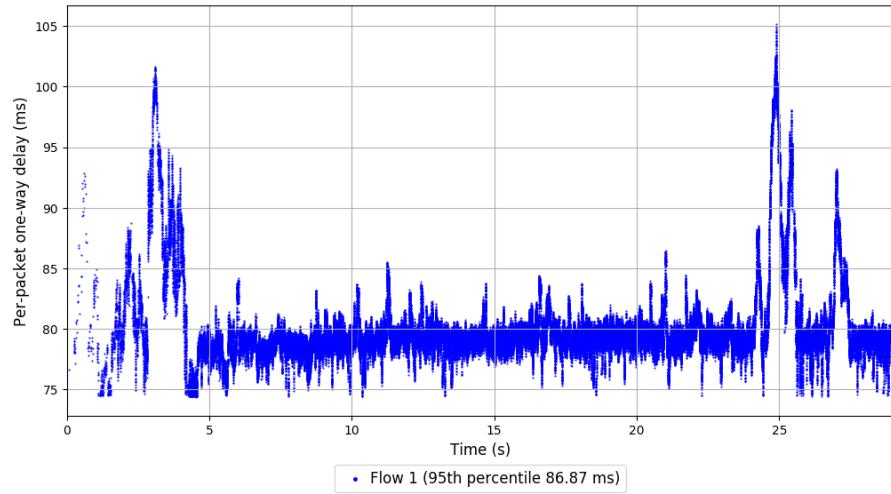
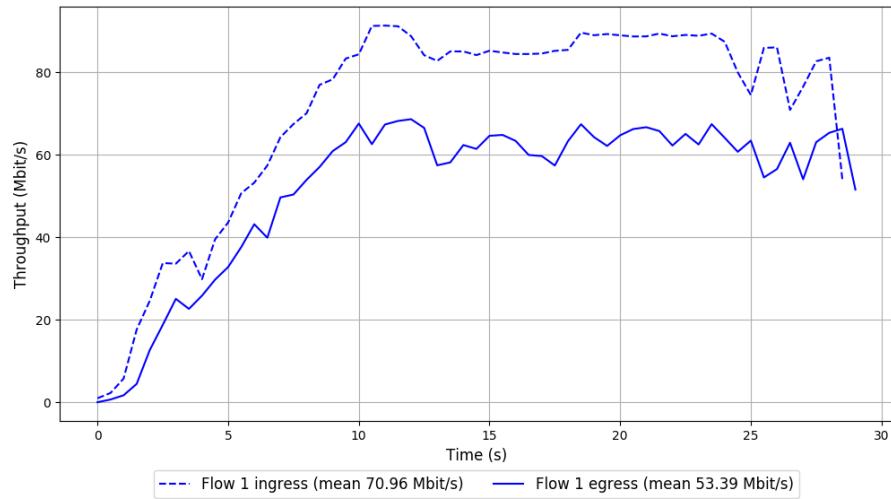


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 00:36:25
End at: 2019-07-12 00:36:55
Local clock offset: -1.53 ms
Remote clock offset: -4.163 ms

# Below is generated by plot.py at 2019-07-12 01:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.39 Mbit/s
95th percentile per-packet one-way delay: 86.871 ms
Loss rate: 24.75%
-- Flow 1:
Average throughput: 53.39 Mbit/s
95th percentile per-packet one-way delay: 86.871 ms
Loss rate: 24.75%
```

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

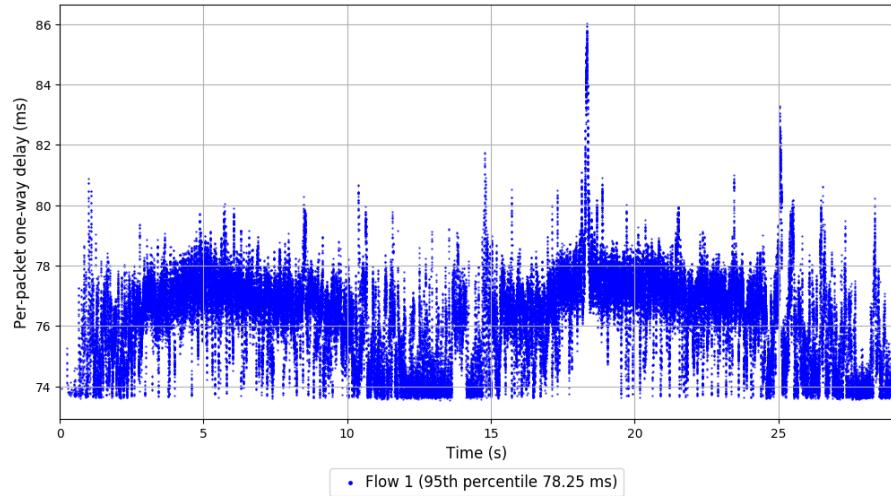
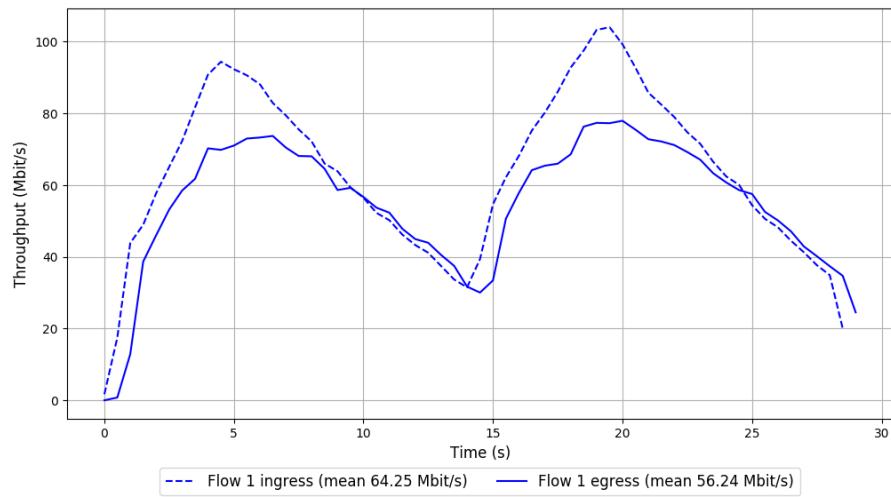


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-07-11 23:00:17
End at: 2019-07-11 23:00:47
Local clock offset: -0.896 ms
Remote clock offset: -7.195 ms

# Below is generated by plot.py at 2019-07-12 01:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.24 Mbit/s
95th percentile per-packet one-way delay: 78.254 ms
Loss rate: 12.48%
-- Flow 1:
Average throughput: 56.24 Mbit/s
95th percentile per-packet one-way delay: 78.254 ms
Loss rate: 12.48%
```

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

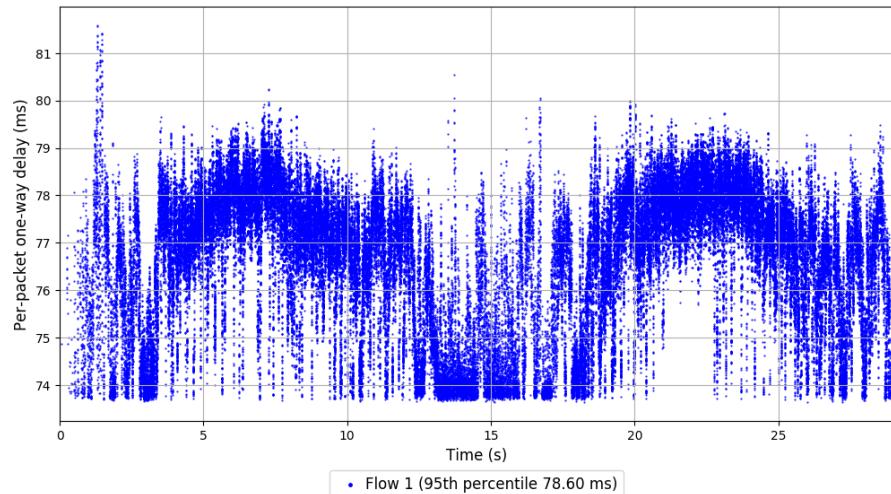
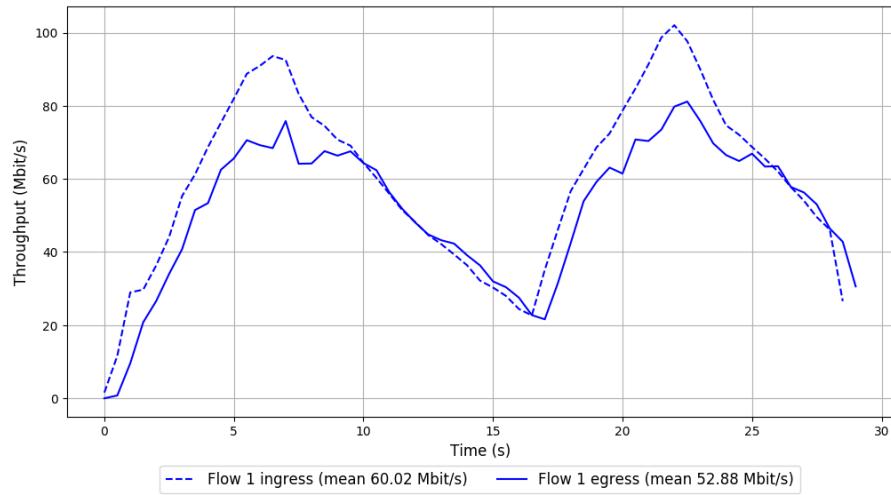


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-07-11 23:28:08
End at: 2019-07-11 23:28:38
Local clock offset: -0.617 ms
Remote clock offset: -7.367 ms

# Below is generated by plot.py at 2019-07-12 01:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.88 Mbit/s
95th percentile per-packet one-way delay: 78.600 ms
Loss rate: 11.90%
-- Flow 1:
Average throughput: 52.88 Mbit/s
95th percentile per-packet one-way delay: 78.600 ms
Loss rate: 11.90%
```

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

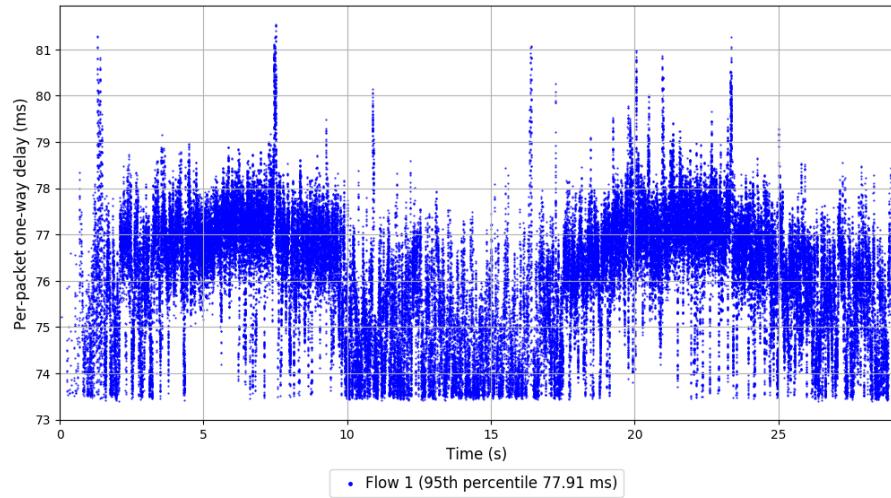
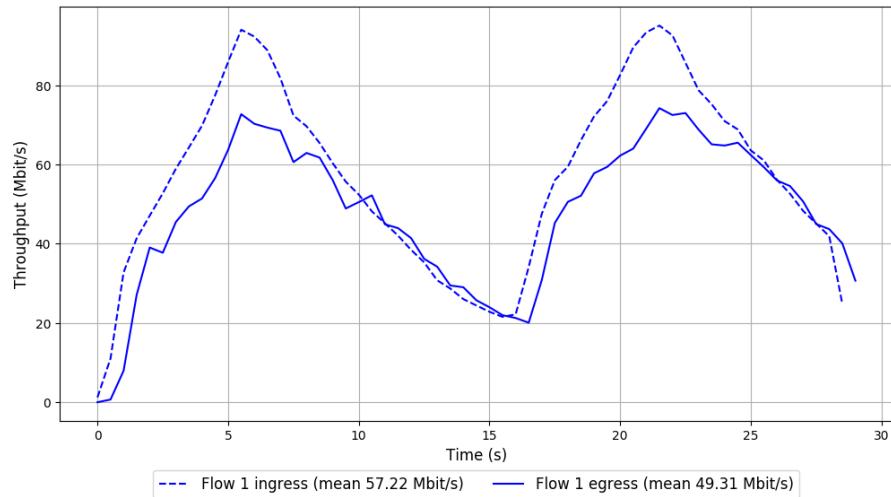


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-07-11 23:56:16
End at: 2019-07-11 23:56:46
Local clock offset: -2.683 ms
Remote clock offset: -7.497 ms

# Below is generated by plot.py at 2019-07-12 01:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.31 Mbit/s
95th percentile per-packet one-way delay: 77.906 ms
Loss rate: 13.82%
-- Flow 1:
Average throughput: 49.31 Mbit/s
95th percentile per-packet one-way delay: 77.906 ms
Loss rate: 13.82%
```

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

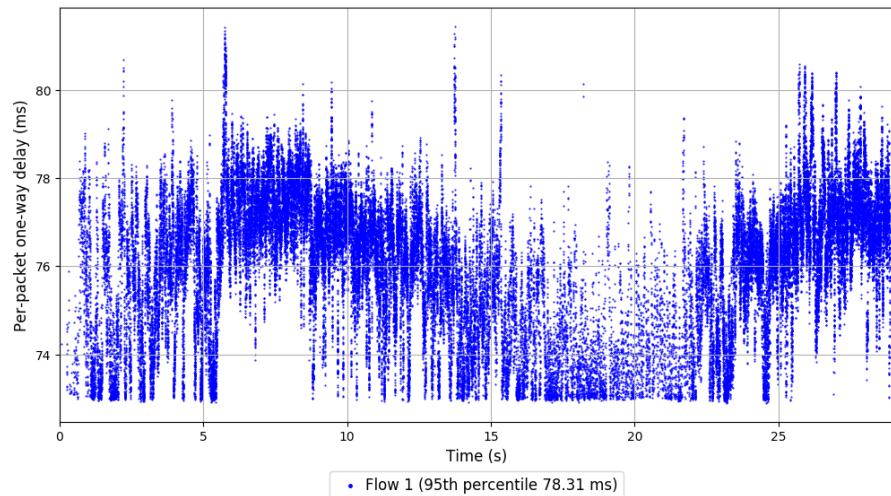
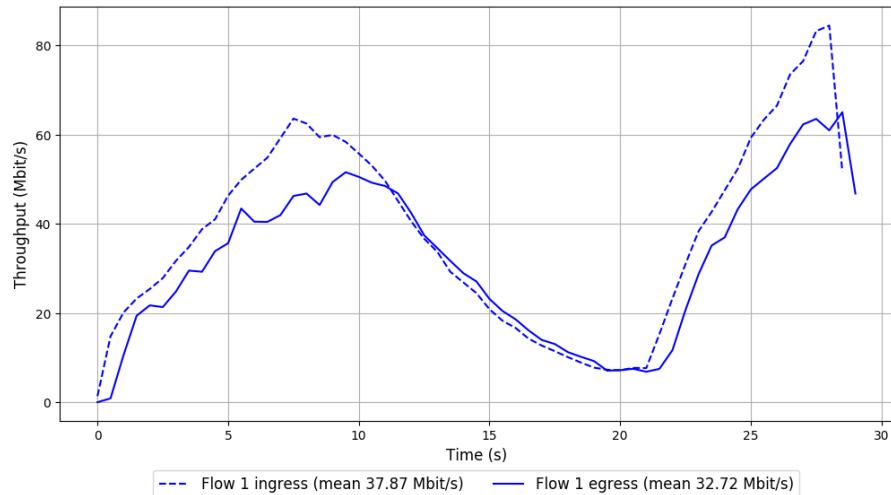


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 00:24:34
End at: 2019-07-12 00:25:04
Local clock offset: -2.927 ms
Remote clock offset: -6.061 ms

# Below is generated by plot.py at 2019-07-12 01:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.72 Mbit/s
95th percentile per-packet one-way delay: 78.309 ms
Loss rate: 13.59%
-- Flow 1:
Average throughput: 32.72 Mbit/s
95th percentile per-packet one-way delay: 78.309 ms
Loss rate: 13.59%
```

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

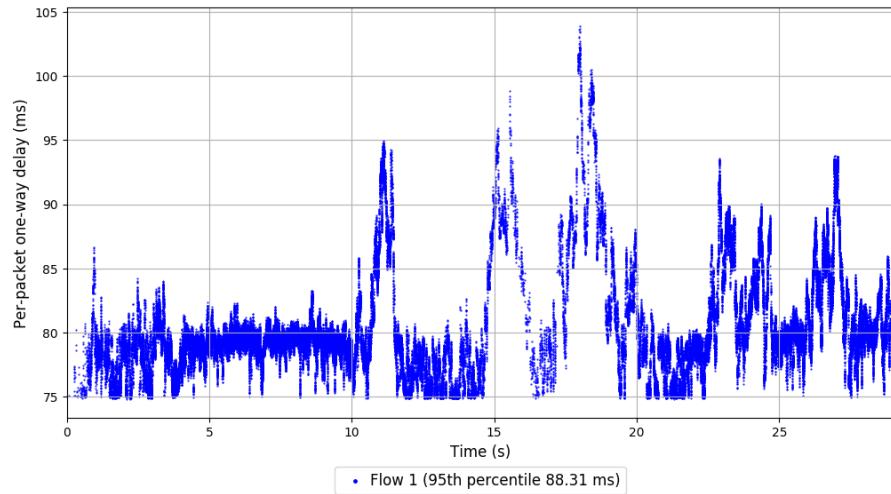
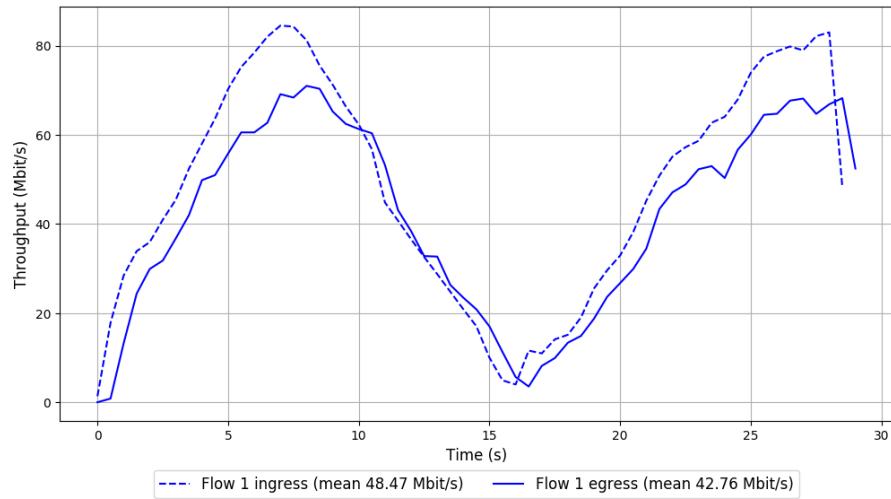


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 00:52:47
End at: 2019-07-12 00:53:17
Local clock offset: -2.057 ms
Remote clock offset: -4.048 ms

# Below is generated by plot.py at 2019-07-12 01:04:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.76 Mbit/s
95th percentile per-packet one-way delay: 88.305 ms
Loss rate: 11.75%
-- Flow 1:
Average throughput: 42.76 Mbit/s
95th percentile per-packet one-way delay: 88.305 ms
Loss rate: 11.75%
```

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

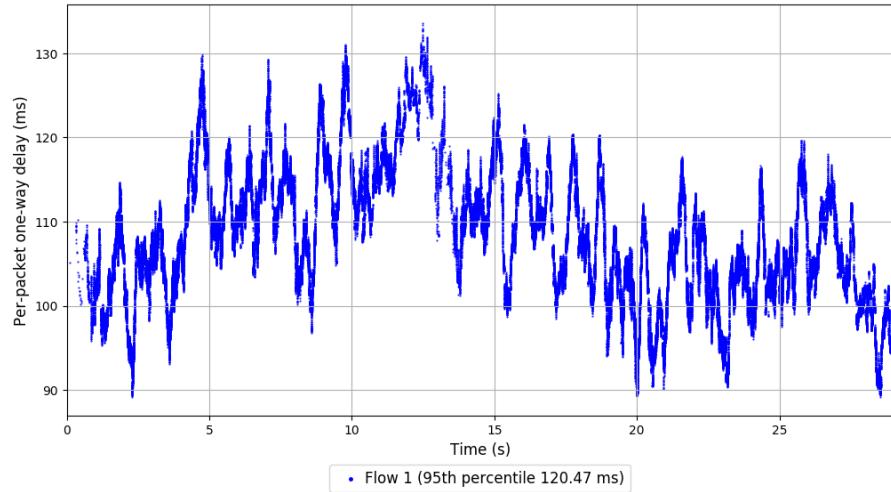
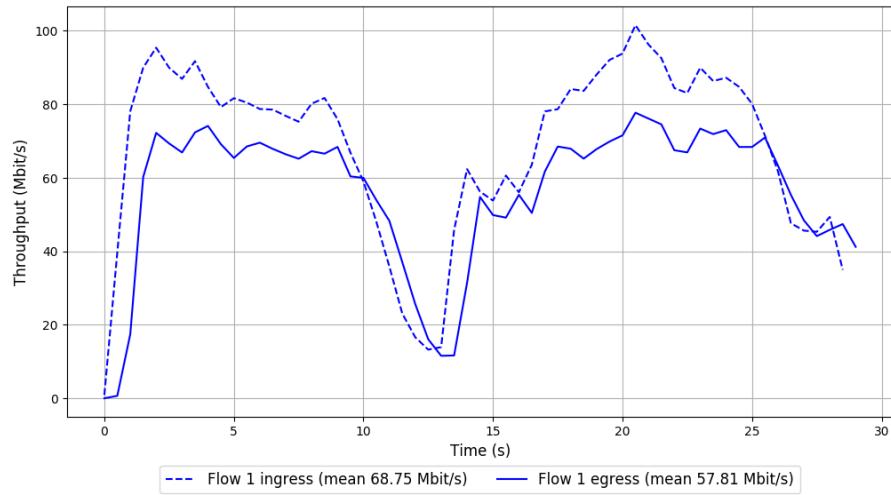


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-07-11 22:54:25
End at: 2019-07-11 22:54:55
Local clock offset: -1.855 ms
Remote clock offset: -8.982 ms

# Below is generated by plot.py at 2019-07-12 01:05:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.81 Mbit/s
95th percentile per-packet one-way delay: 120.467 ms
Loss rate: 15.94%
-- Flow 1:
Average throughput: 57.81 Mbit/s
95th percentile per-packet one-way delay: 120.467 ms
Loss rate: 15.94%
```

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

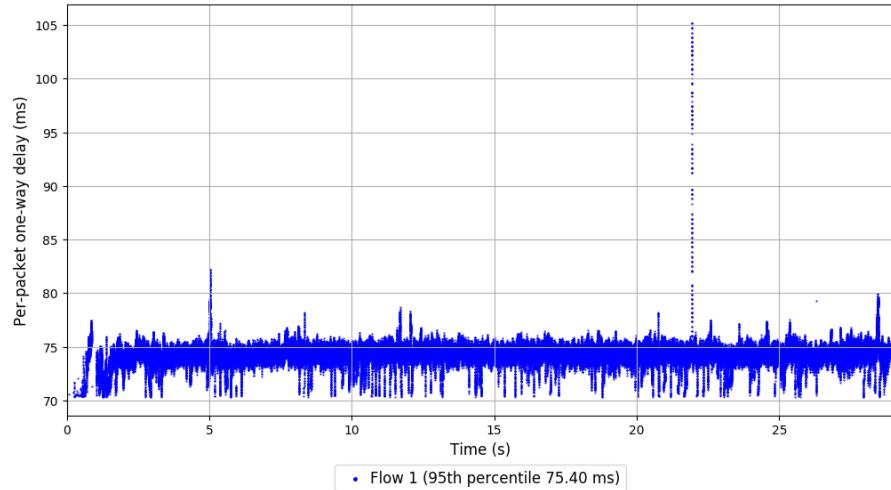
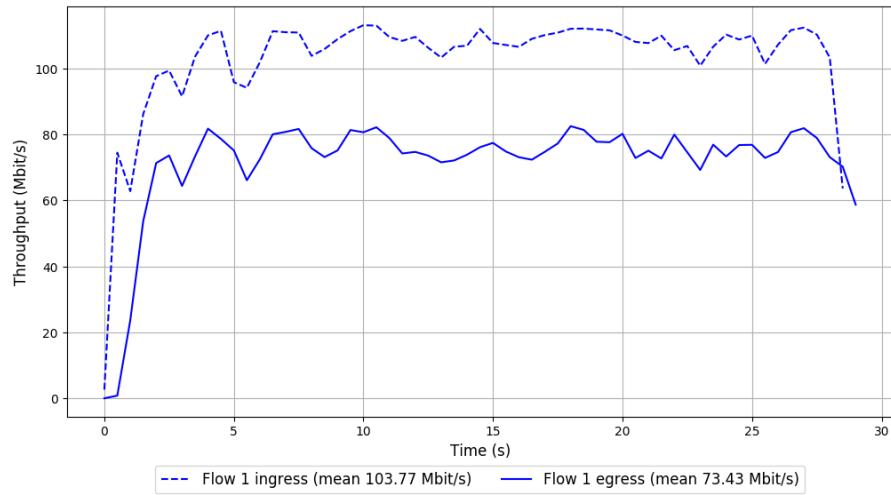


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-07-11 23:22:15
End at: 2019-07-11 23:22:45
Local clock offset: -0.045 ms
Remote clock offset: -8.553 ms

# Below is generated by plot.py at 2019-07-12 01:05:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.43 Mbit/s
95th percentile per-packet one-way delay: 75.401 ms
Loss rate: 29.23%
-- Flow 1:
Average throughput: 73.43 Mbit/s
95th percentile per-packet one-way delay: 75.401 ms
Loss rate: 29.23%
```

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

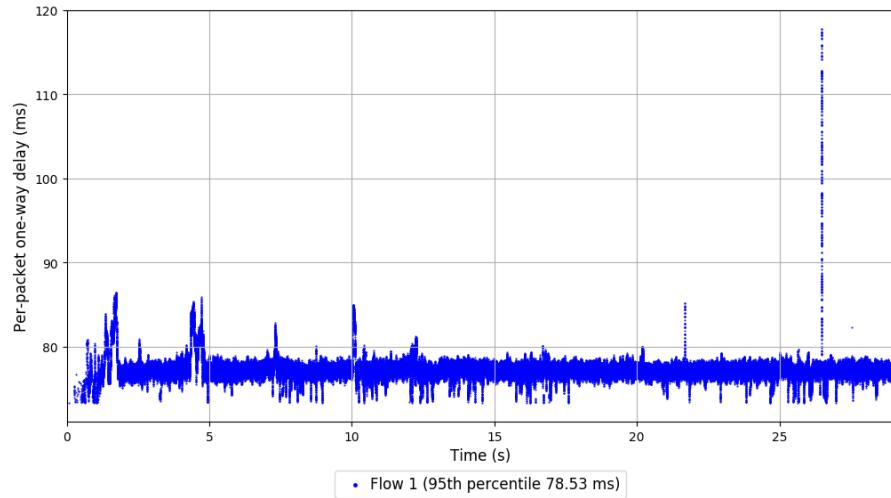
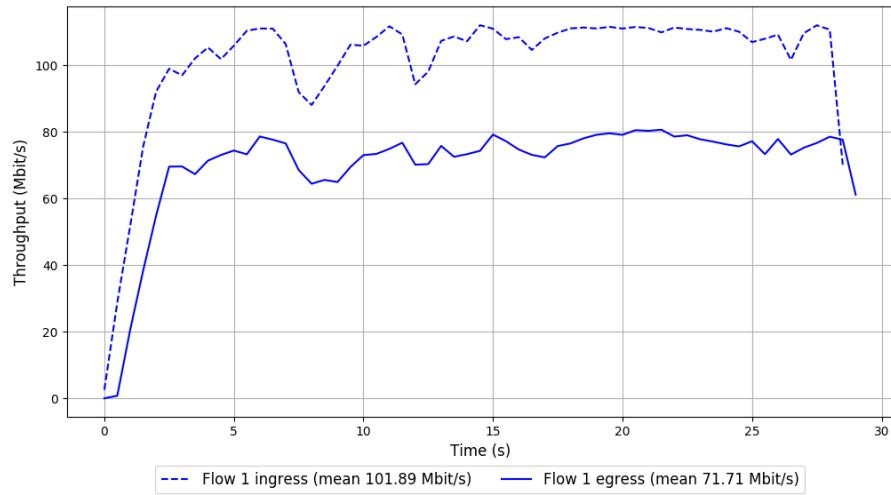


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-07-11 23:50:25
End at: 2019-07-11 23:50:55
Local clock offset: -2.06 ms
Remote clock offset: -5.329 ms

# Below is generated by plot.py at 2019-07-12 01:05:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.71 Mbit/s
95th percentile per-packet one-way delay: 78.535 ms
Loss rate: 29.61%
-- Flow 1:
Average throughput: 71.71 Mbit/s
95th percentile per-packet one-way delay: 78.535 ms
Loss rate: 29.61%
```

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

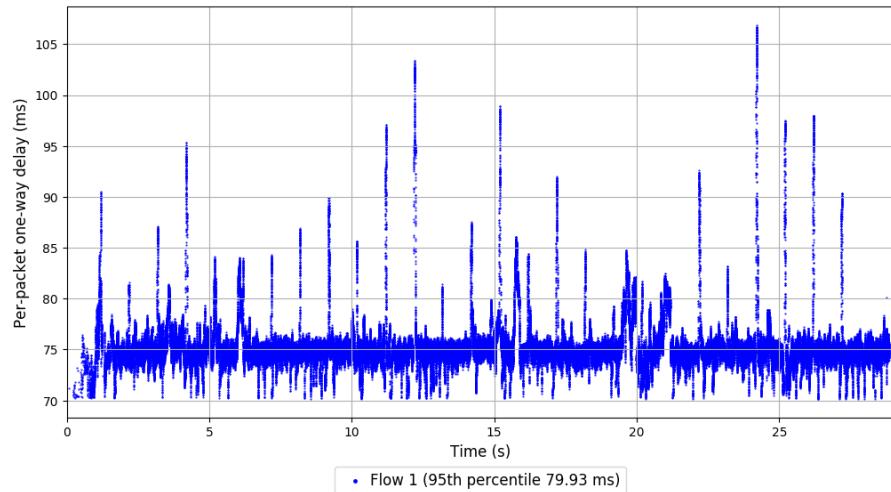
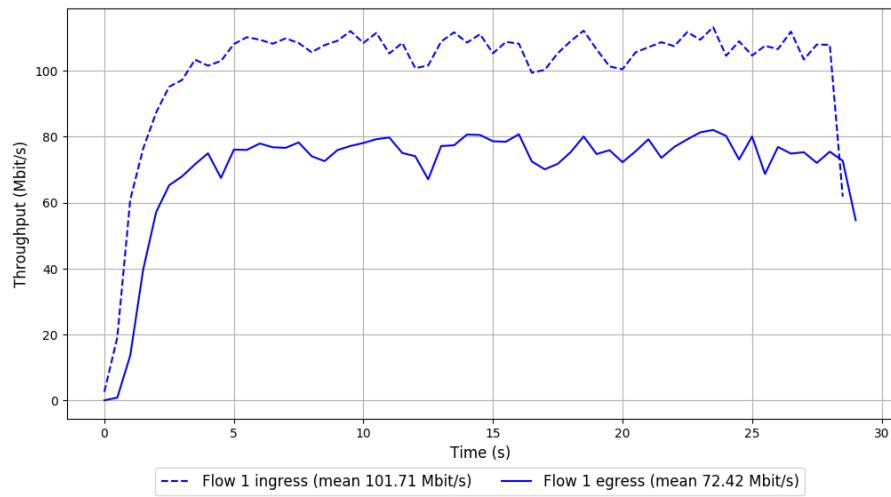


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 00:18:42
End at: 2019-07-12 00:19:12
Local clock offset: -2.145 ms
Remote clock offset: -8.162 ms

# Below is generated by plot.py at 2019-07-12 01:05:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.42 Mbit/s
95th percentile per-packet one-way delay: 79.931 ms
Loss rate: 28.78%
-- Flow 1:
Average throughput: 72.42 Mbit/s
95th percentile per-packet one-way delay: 79.931 ms
Loss rate: 28.78%
```

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

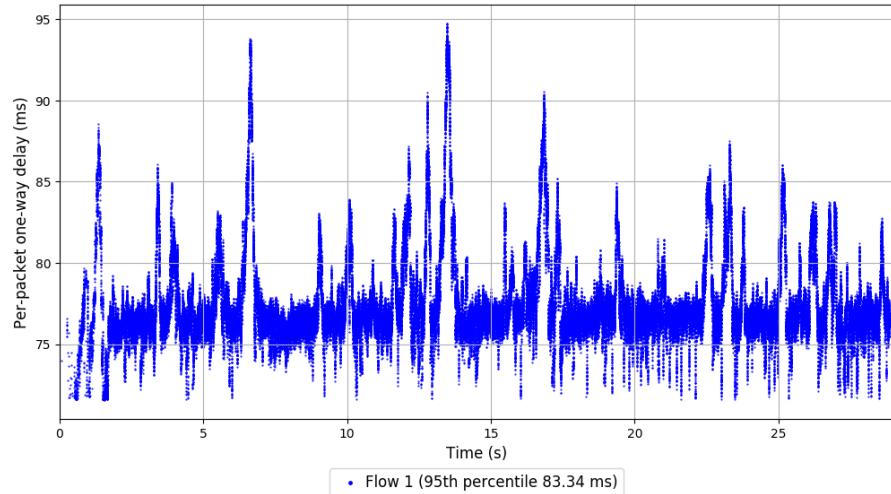
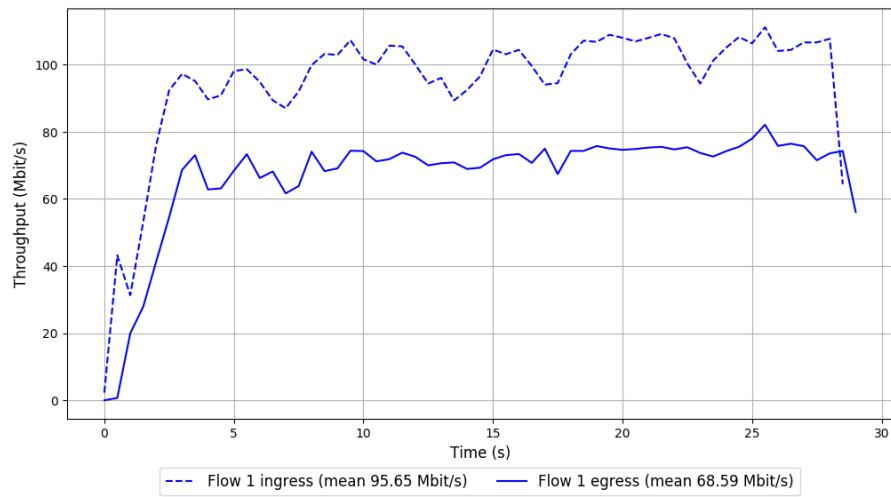


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 00:46:51
End at: 2019-07-12 00:47:21
Local clock offset: -2.259 ms
Remote clock offset: -5.929 ms

# Below is generated by plot.py at 2019-07-12 01:05:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.59 Mbit/s
95th percentile per-packet one-way delay: 83.344 ms
Loss rate: 28.28%
-- Flow 1:
Average throughput: 68.59 Mbit/s
95th percentile per-packet one-way delay: 83.344 ms
Loss rate: 28.28%
```

Run 5: Report of Indigo-MusesT — Data Link

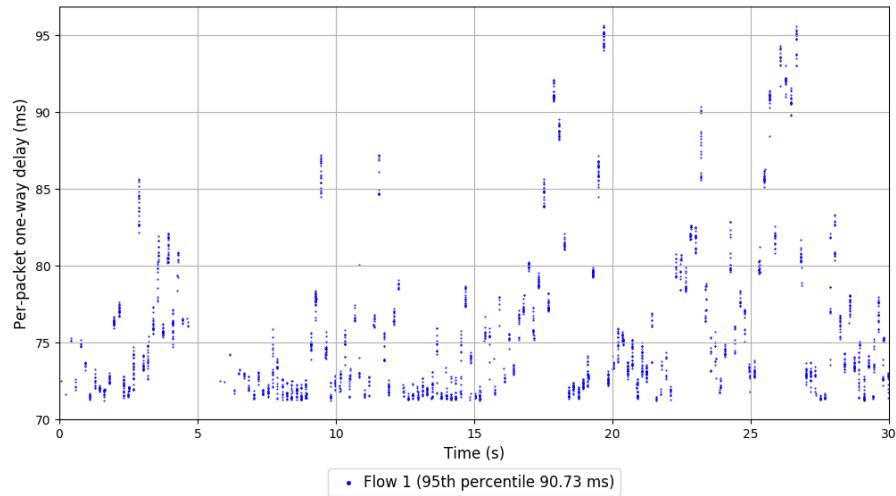
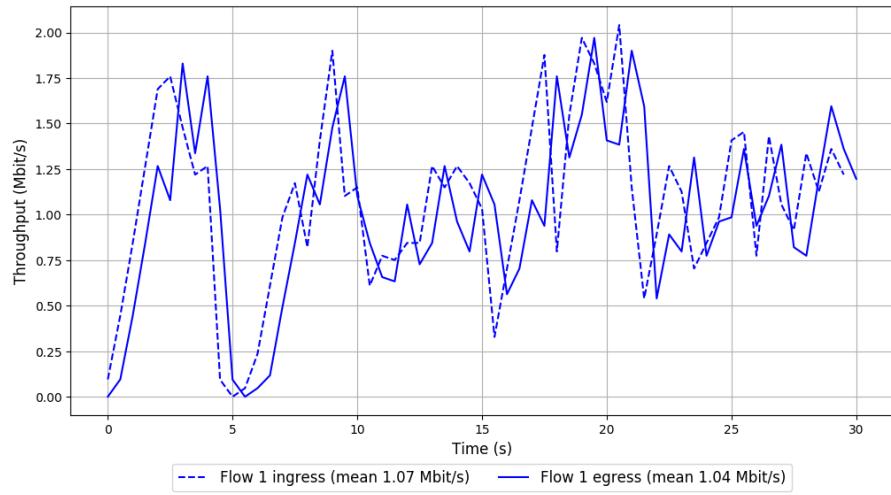


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-07-11 22:57:58
End at: 2019-07-11 22:58:28
Local clock offset: -1.531 ms
Remote clock offset: -8.481 ms

# Below is generated by plot.py at 2019-07-12 01:05:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 90.733 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 90.733 ms
Loss rate: 3.18%
```

Run 1: Report of LEDBAT — Data Link

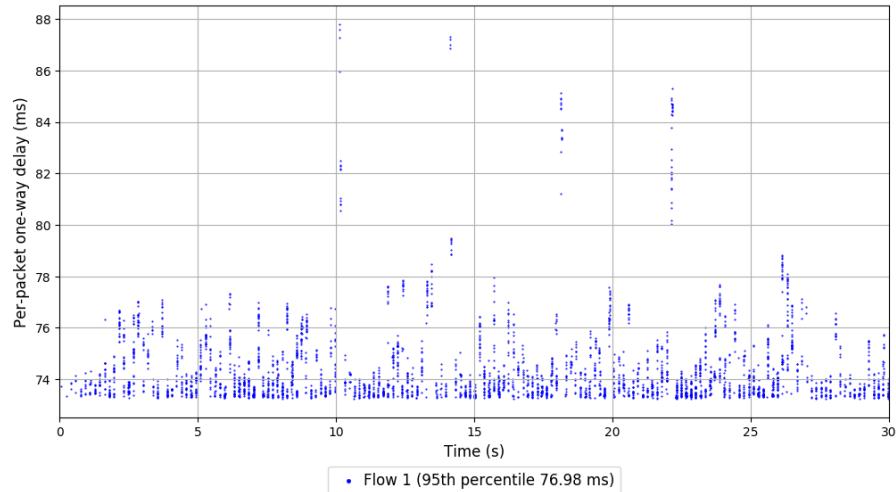
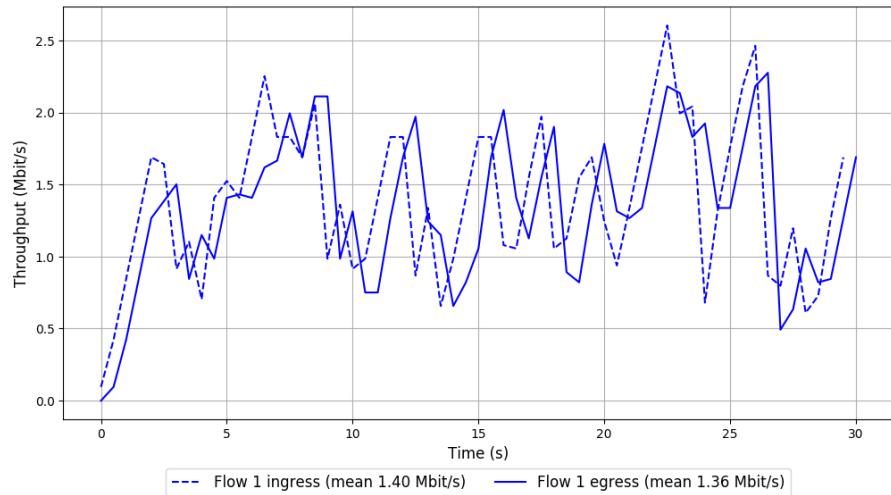


Run 2: Statistics of LEDBAT

```
Start at: 2019-07-11 23:25:48
End at: 2019-07-11 23:26:19
Local clock offset: -0.684 ms
Remote clock offset: -5.798 ms

# Below is generated by plot.py at 2019-07-12 01:05:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 76.976 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 76.976 ms
Loss rate: 2.28%
```

## Run 2: Report of LEDBAT — Data Link

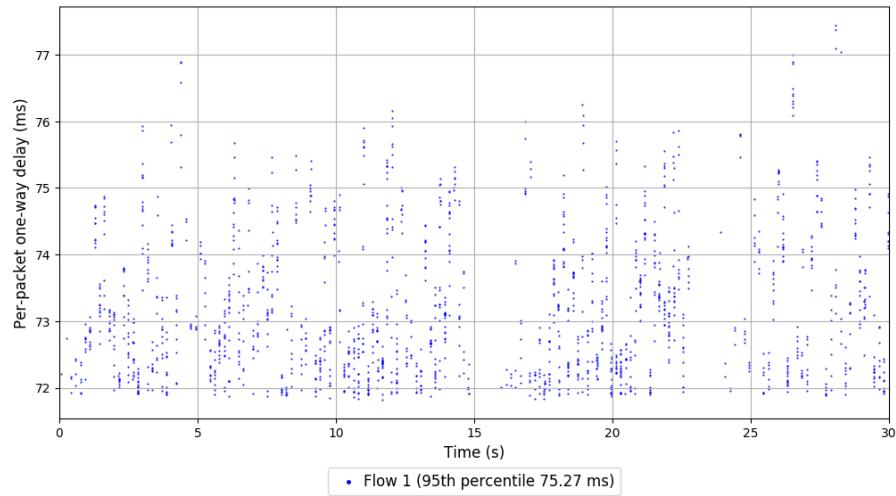
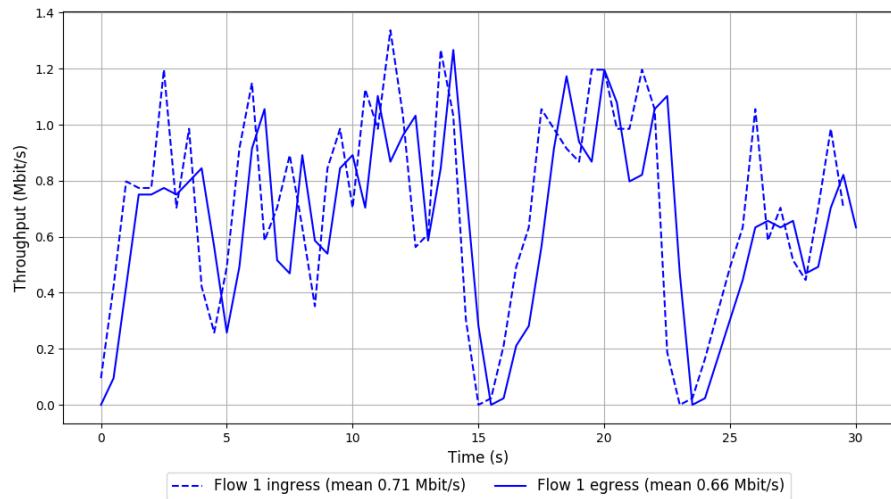


Run 3: Statistics of LEDBAT

```
Start at: 2019-07-11 23:53:58
End at: 2019-07-11 23:54:28
Local clock offset: -1.915 ms
Remote clock offset: -6.403 ms

# Below is generated by plot.py at 2019-07-12 01:05:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 75.266 ms
Loss rate: 5.94%
-- Flow 1:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 75.266 ms
Loss rate: 5.94%
```

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

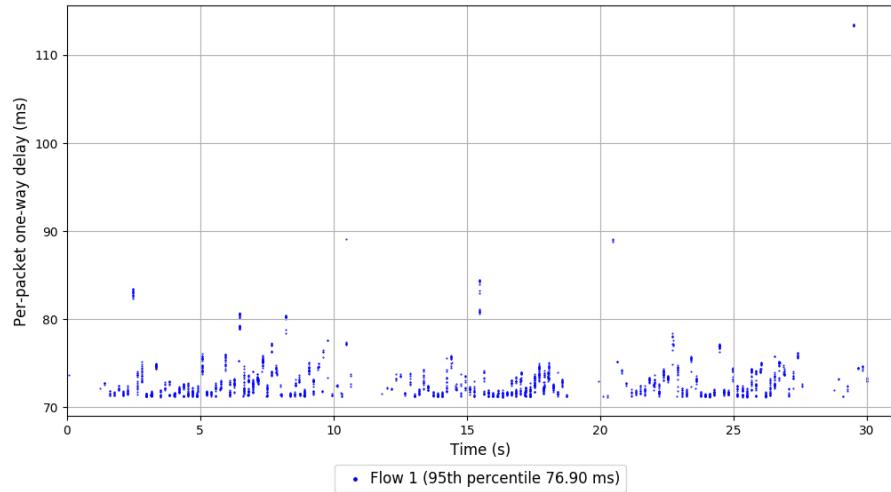
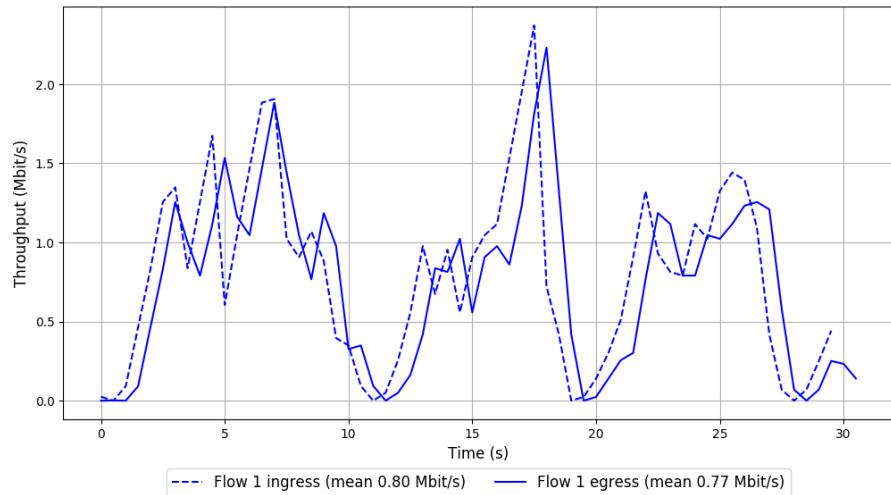


Run 4: Statistics of LEDBAT

```
Start at: 2019-07-12 00:22:15
End at: 2019-07-12 00:22:45
Local clock offset: -2.93 ms
Remote clock offset: -7.068 ms

# Below is generated by plot.py at 2019-07-12 01:05:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 76.899 ms
Loss rate: 3.84%
-- Flow 1:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 76.899 ms
Loss rate: 3.84%
```

Run 4: Report of LEDBAT — Data Link

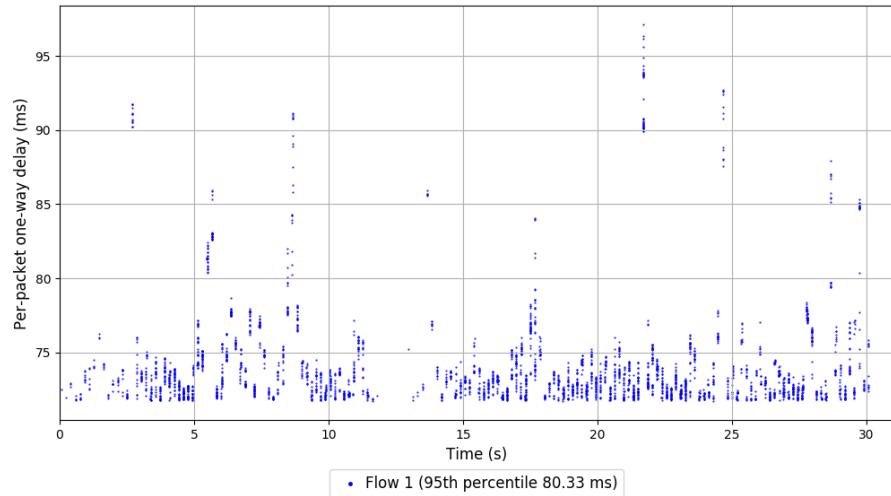
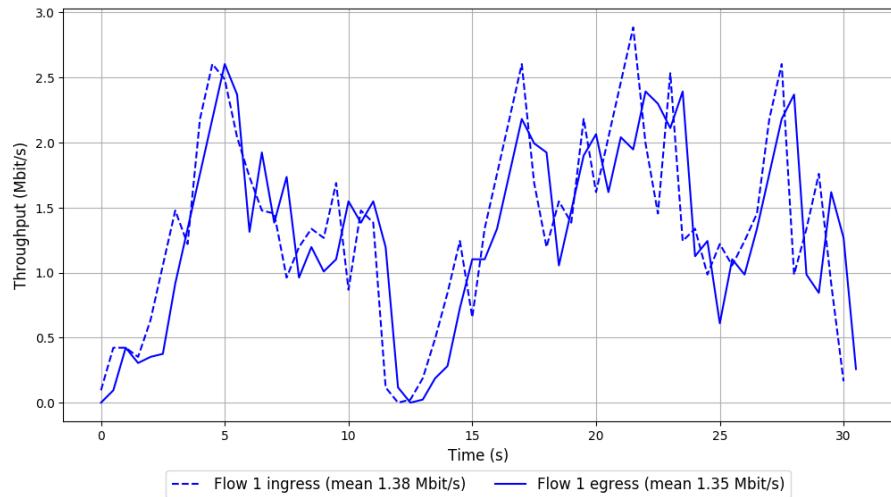


Run 5: Statistics of LEDBAT

```
Start at: 2019-07-12 00:50:24
End at: 2019-07-12 00:50:54
Local clock offset: -1.424 ms
Remote clock offset: -5.093 ms

# Below is generated by plot.py at 2019-07-12 01:05:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 80.331 ms
Loss rate: 2.44%
-- Flow 1:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 80.331 ms
Loss rate: 2.44%
```

Run 5: Report of LEDBAT — Data Link

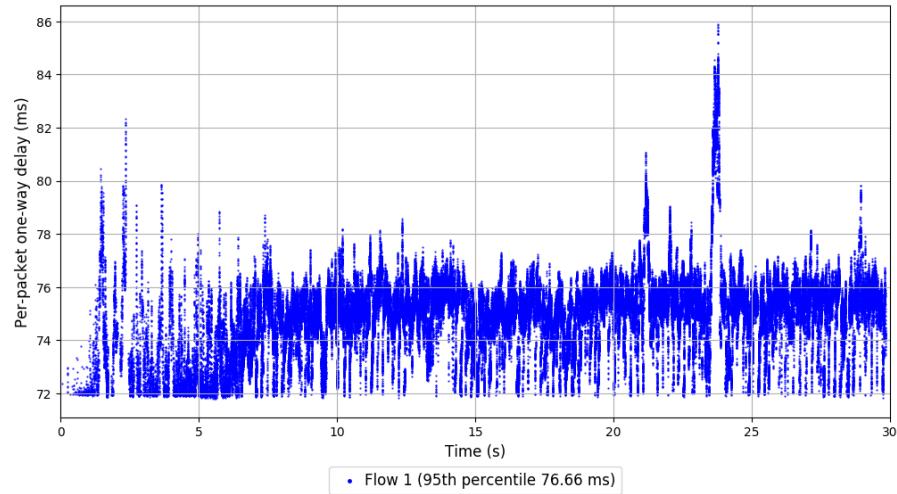
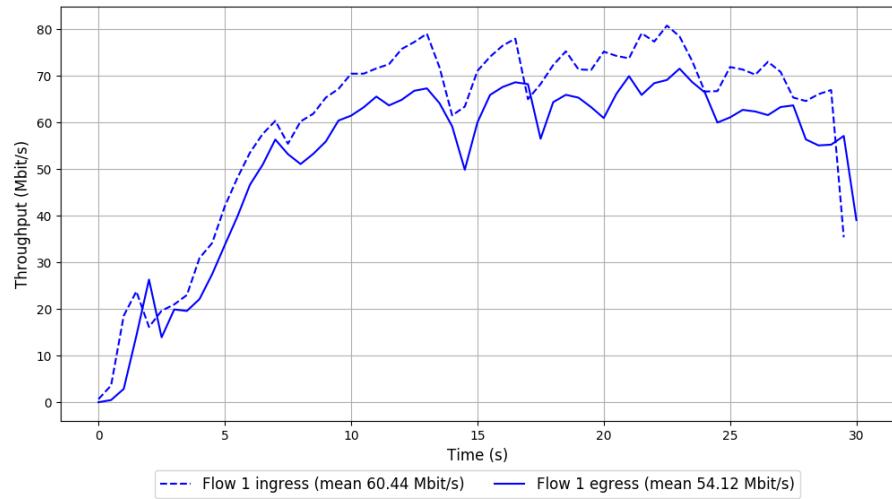


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-07-11 22:59:06
End at: 2019-07-11 22:59:36
Local clock offset: -1.491 ms
Remote clock offset: -8.791 ms

# Below is generated by plot.py at 2019-07-12 01:05:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.12 Mbit/s
95th percentile per-packet one-way delay: 76.661 ms
Loss rate: 10.45%
-- Flow 1:
Average throughput: 54.12 Mbit/s
95th percentile per-packet one-way delay: 76.661 ms
Loss rate: 10.45%
```

Run 1: Report of Muses\_DecisionTree — Data Link

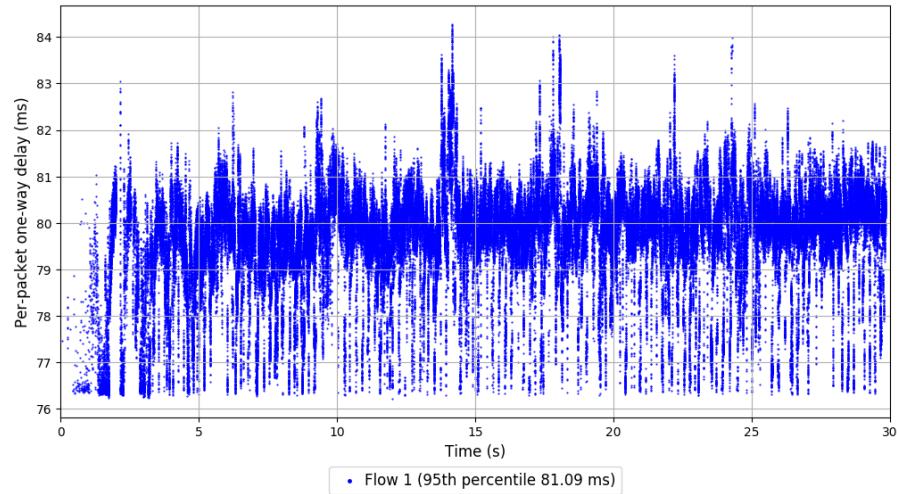
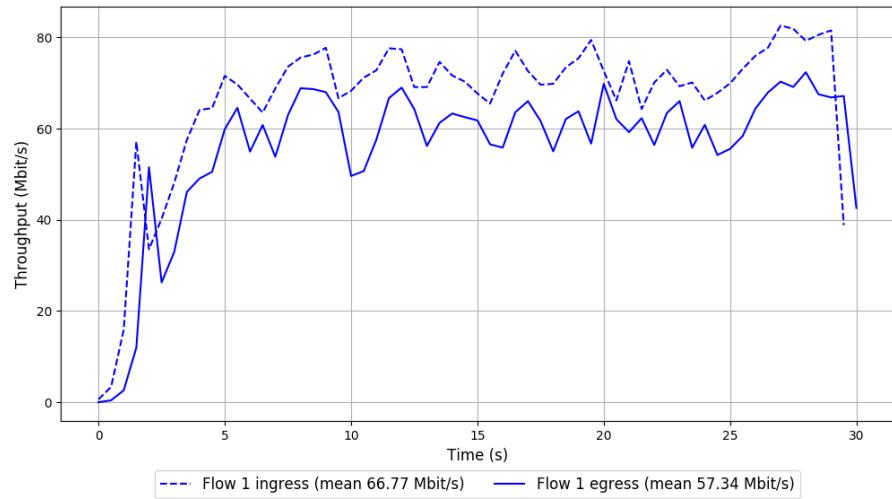


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-07-11 23:26:57
End at: 2019-07-11 23:27:27
Local clock offset: 0.131 ms
Remote clock offset: -5.504 ms

# Below is generated by plot.py at 2019-07-12 01:05:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.34 Mbit/s
95th percentile per-packet one-way delay: 81.086 ms
Loss rate: 14.12%
-- Flow 1:
Average throughput: 57.34 Mbit/s
95th percentile per-packet one-way delay: 81.086 ms
Loss rate: 14.12%
```

Run 2: Report of Muses\_DecisionTree — Data Link

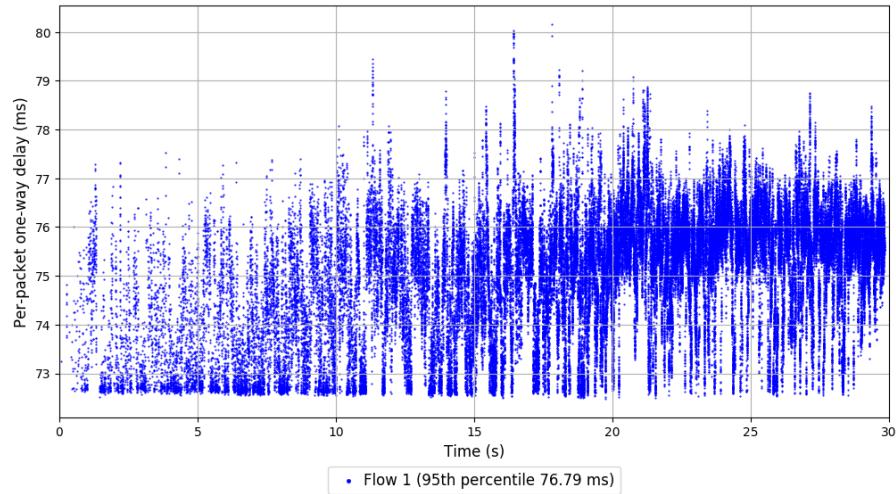
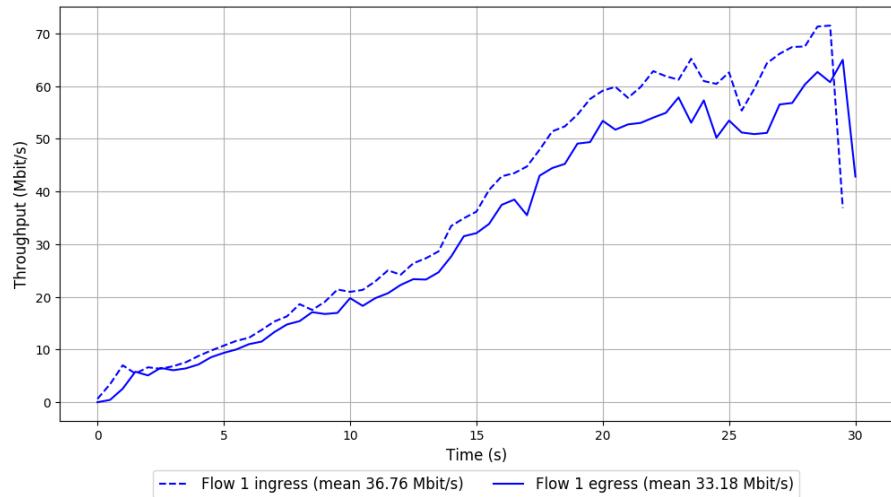


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-07-11 23:55:06
End at: 2019-07-11 23:55:36
Local clock offset: -2.133 ms
Remote clock offset: -7.399 ms

# Below is generated by plot.py at 2019-07-12 01:05:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.18 Mbit/s
95th percentile per-packet one-way delay: 76.794 ms
Loss rate: 9.74%
-- Flow 1:
Average throughput: 33.18 Mbit/s
95th percentile per-packet one-way delay: 76.794 ms
Loss rate: 9.74%
```

### Run 3: Report of Muses\_DecisionTree — Data Link

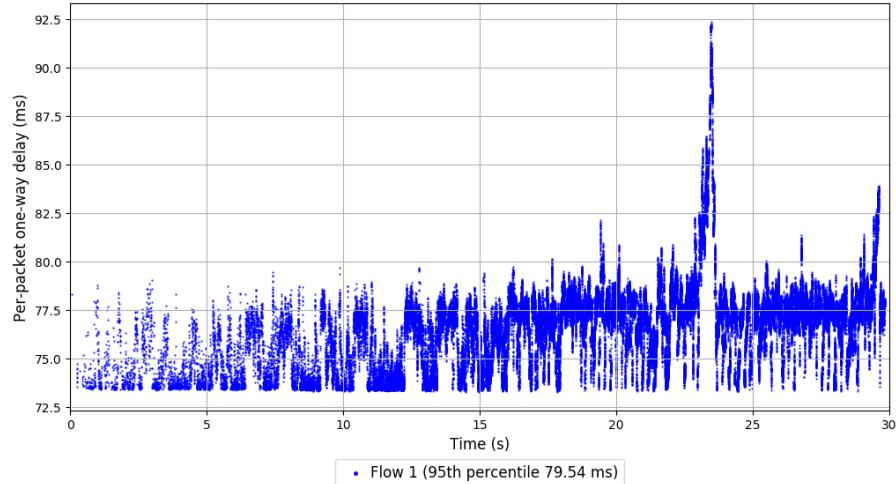
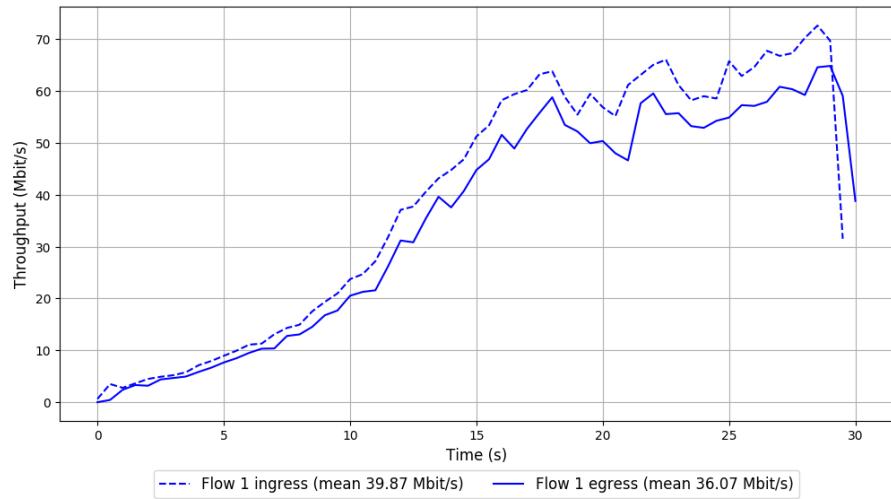


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 00:23:23
End at: 2019-07-12 00:23:53
Local clock offset: -2.706 ms
Remote clock offset: -6.27 ms

# Below is generated by plot.py at 2019-07-12 01:05:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.07 Mbit/s
95th percentile per-packet one-way delay: 79.536 ms
Loss rate: 9.53%
-- Flow 1:
Average throughput: 36.07 Mbit/s
95th percentile per-packet one-way delay: 79.536 ms
Loss rate: 9.53%
```

Run 4: Report of Muses\_DecisionTree — Data Link

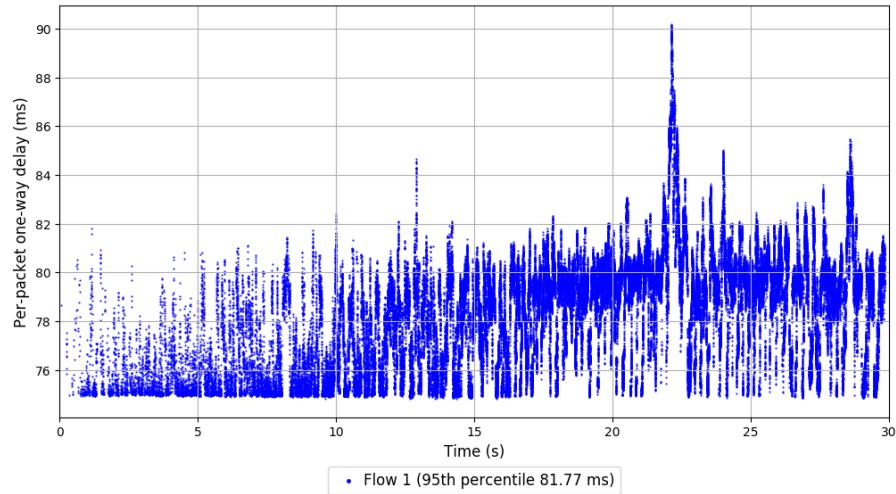
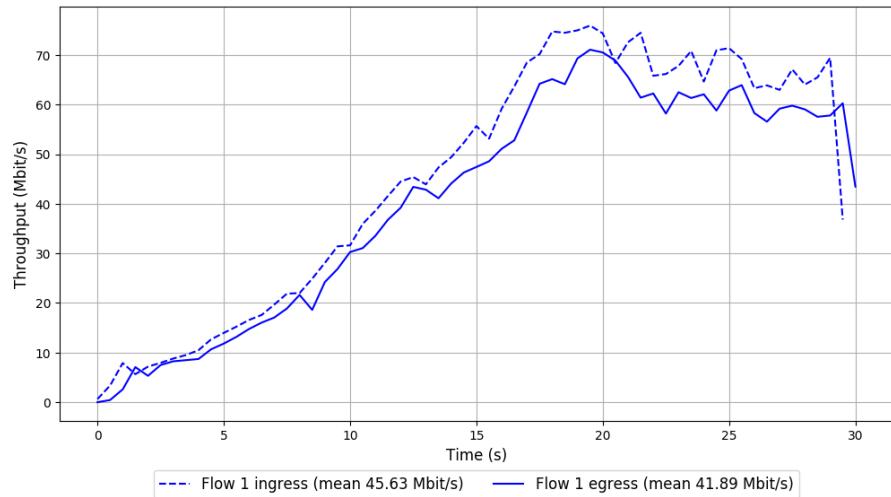


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 00:51:32
End at: 2019-07-12 00:52:02
Local clock offset: -1.251 ms
Remote clock offset: -3.23 ms

# Below is generated by plot.py at 2019-07-12 01:05:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.89 Mbit/s
95th percentile per-packet one-way delay: 81.772 ms
Loss rate: 8.21%
-- Flow 1:
Average throughput: 41.89 Mbit/s
95th percentile per-packet one-way delay: 81.772 ms
Loss rate: 8.21%
```

Run 5: Report of Muses\_DecisionTree — Data Link

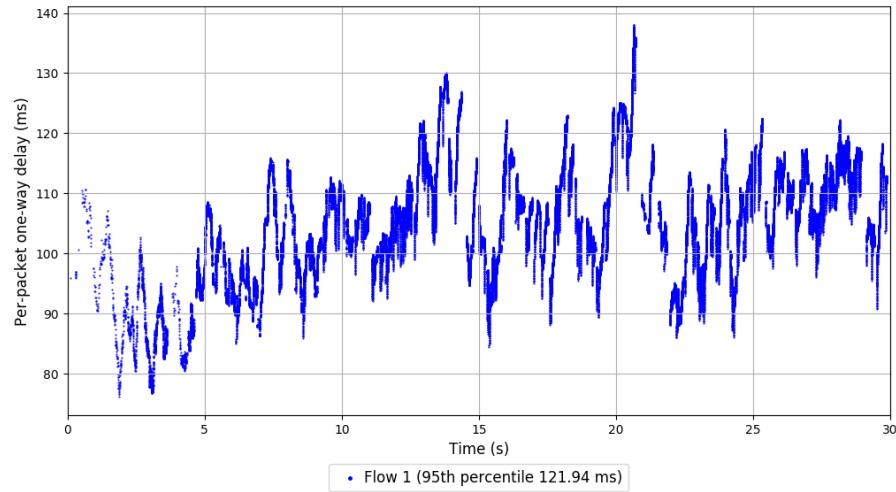
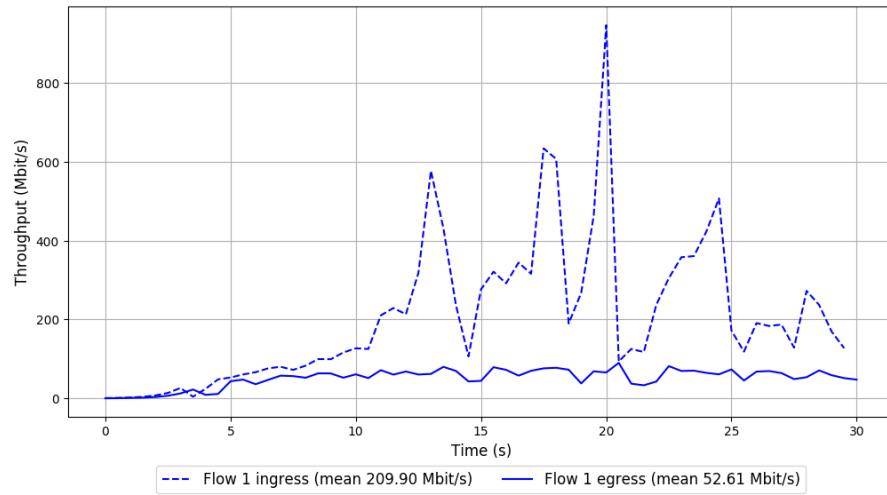


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-11 22:50:51
End at: 2019-07-11 22:51:21
Local clock offset: -1.909 ms
Remote clock offset: -13.512 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.61 Mbit/s
95th percentile per-packet one-way delay: 121.945 ms
Loss rate: 74.92%
-- Flow 1:
Average throughput: 52.61 Mbit/s
95th percentile per-packet one-way delay: 121.945 ms
Loss rate: 74.92%
```

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

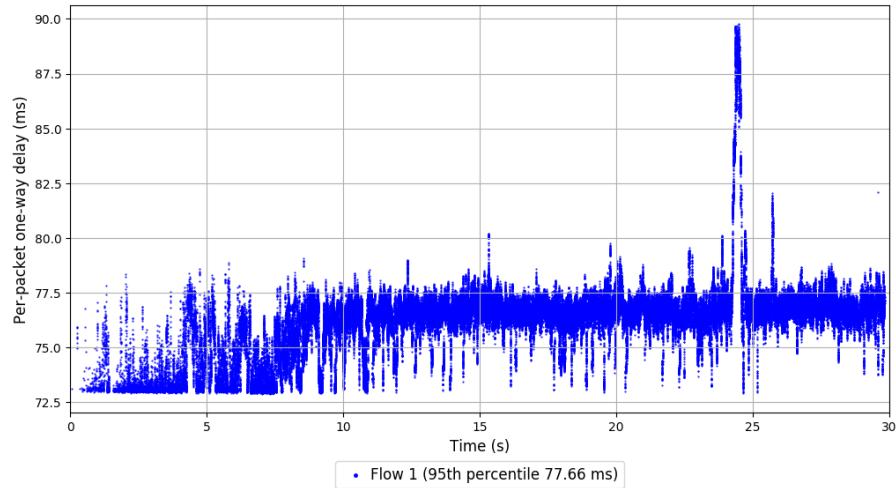
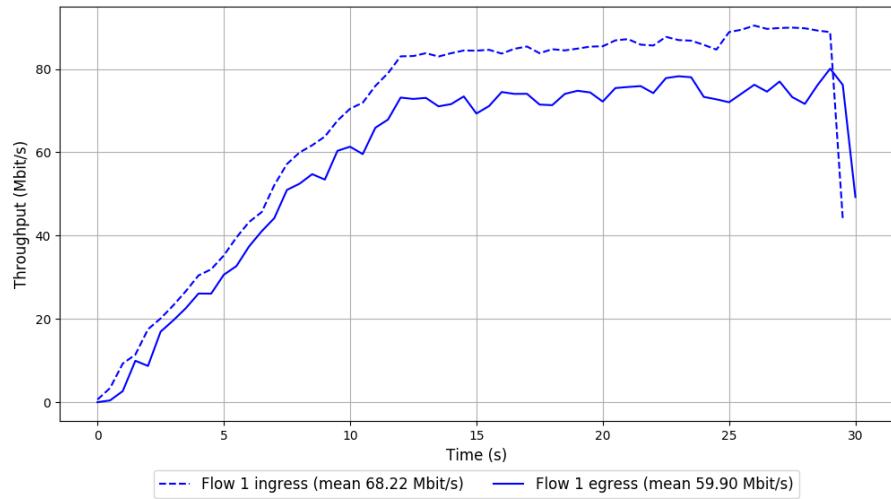


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-11 23:18:43
End at: 2019-07-11 23:19:13
Local clock offset: -0.151 ms
Remote clock offset: -7.574 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.90 Mbit/s
95th percentile per-packet one-way delay: 77.662 ms
Loss rate: 12.19%
-- Flow 1:
Average throughput: 59.90 Mbit/s
95th percentile per-packet one-way delay: 77.662 ms
Loss rate: 12.19%
```

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

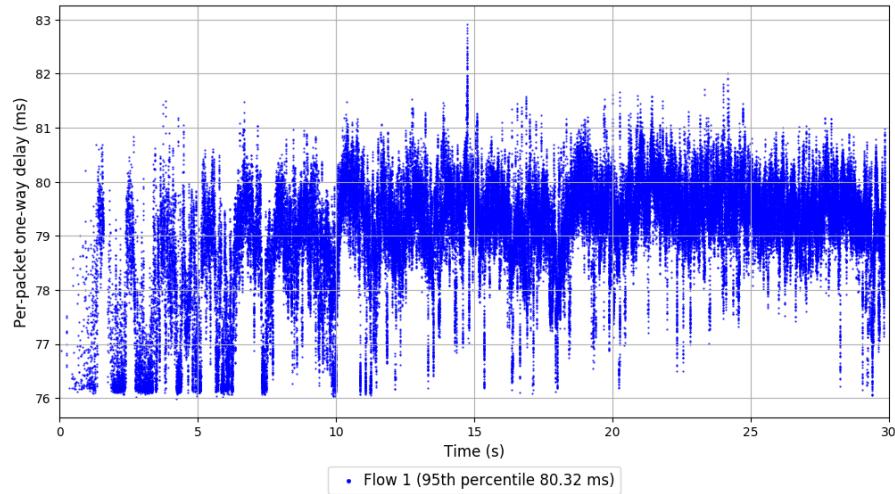
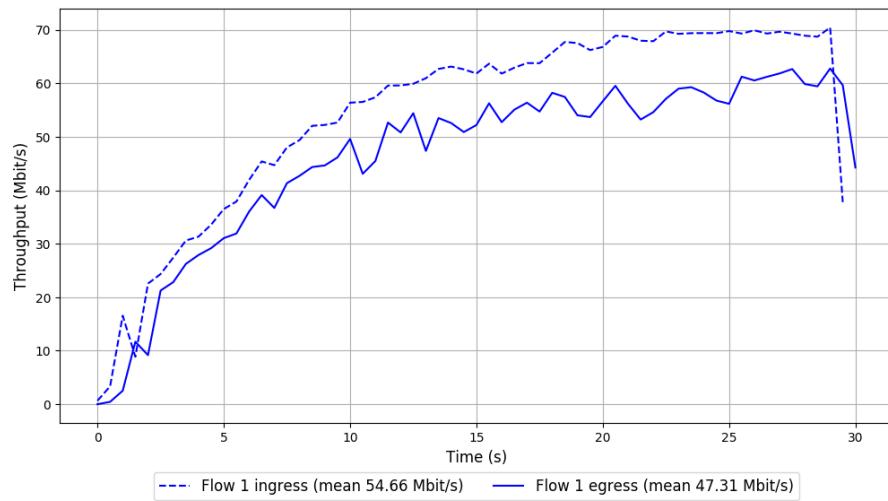


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-11 23:46:48
End at: 2019-07-11 23:47:18
Local clock offset: -2.791 ms
Remote clock offset: -5.296 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.31 Mbit/s
95th percentile per-packet one-way delay: 80.316 ms
Loss rate: 13.45%
-- Flow 1:
Average throughput: 47.31 Mbit/s
95th percentile per-packet one-way delay: 80.316 ms
Loss rate: 13.45%
```

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

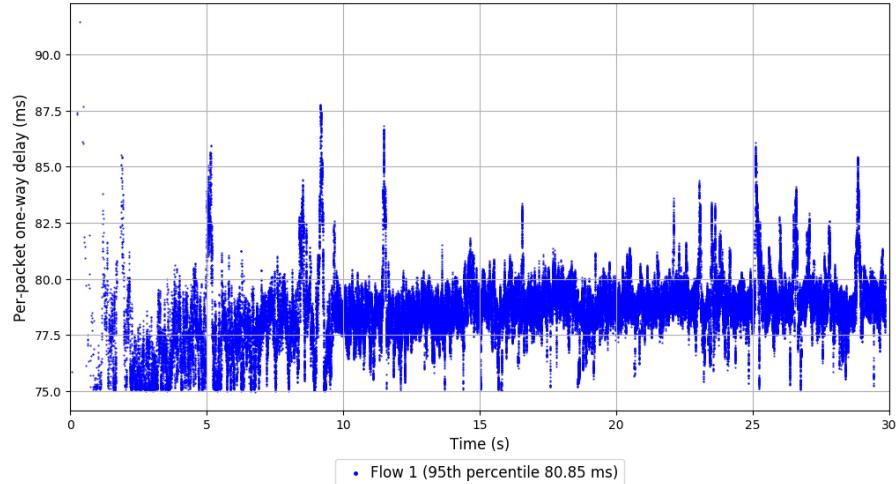
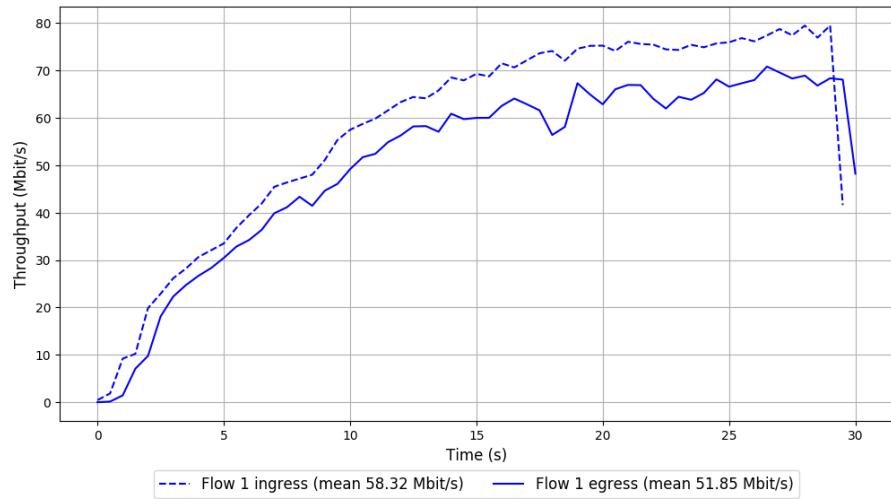


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 00:15:10
End at: 2019-07-12 00:15:40
Local clock offset: -1.781 ms
Remote clock offset: -6.171 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.85 Mbit/s
95th percentile per-packet one-way delay: 80.851 ms
Loss rate: 11.09%
-- Flow 1:
Average throughput: 51.85 Mbit/s
95th percentile per-packet one-way delay: 80.851 ms
Loss rate: 11.09%
```

Run 4: Report of Muses\_DecisionTreeH0 — Data Link

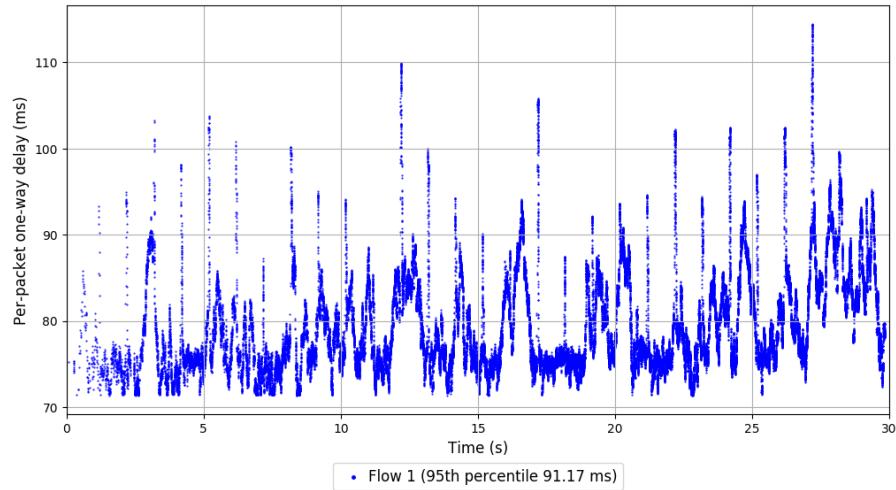
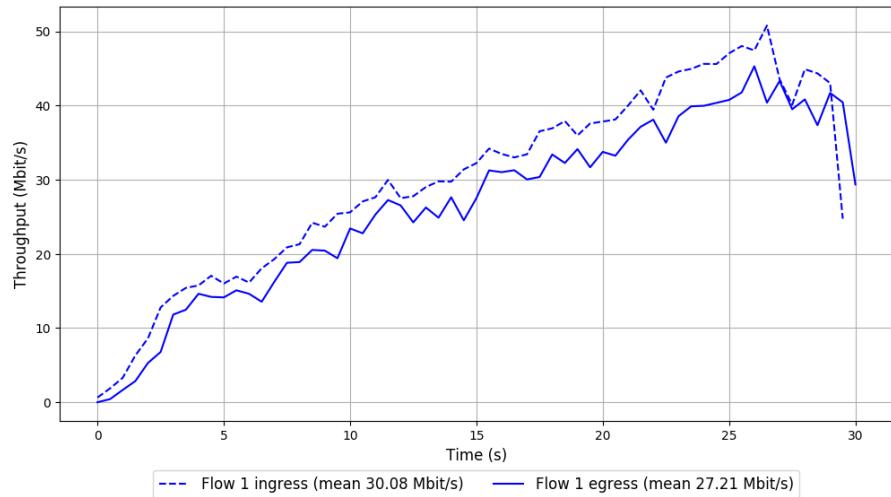


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 00:43:20
End at: 2019-07-12 00:43:50
Local clock offset: -1.537 ms
Remote clock offset: -5.001 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.21 Mbit/s
95th percentile per-packet one-way delay: 91.165 ms
Loss rate: 9.55%
-- Flow 1:
Average throughput: 27.21 Mbit/s
95th percentile per-packet one-way delay: 91.165 ms
Loss rate: 9.55%
```

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

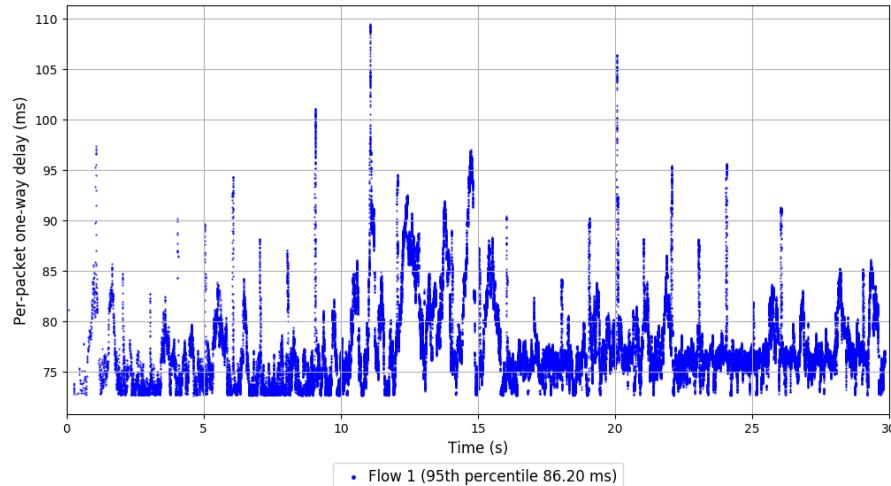
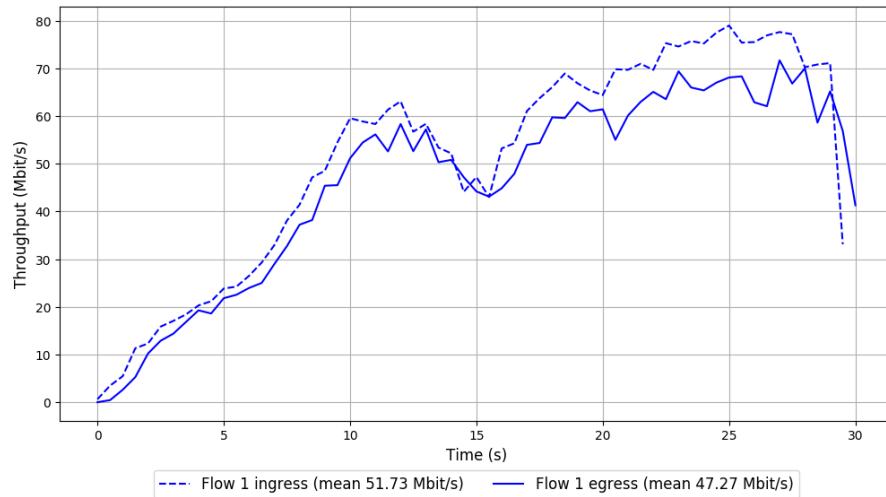


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-11 22:56:47
End at: 2019-07-11 22:57:17
Local clock offset: -1.555 ms
Remote clock offset: -7.324 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.27 Mbit/s
95th percentile per-packet one-way delay: 86.196 ms
Loss rate: 8.64%
-- Flow 1:
Average throughput: 47.27 Mbit/s
95th percentile per-packet one-way delay: 86.196 ms
Loss rate: 8.64%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

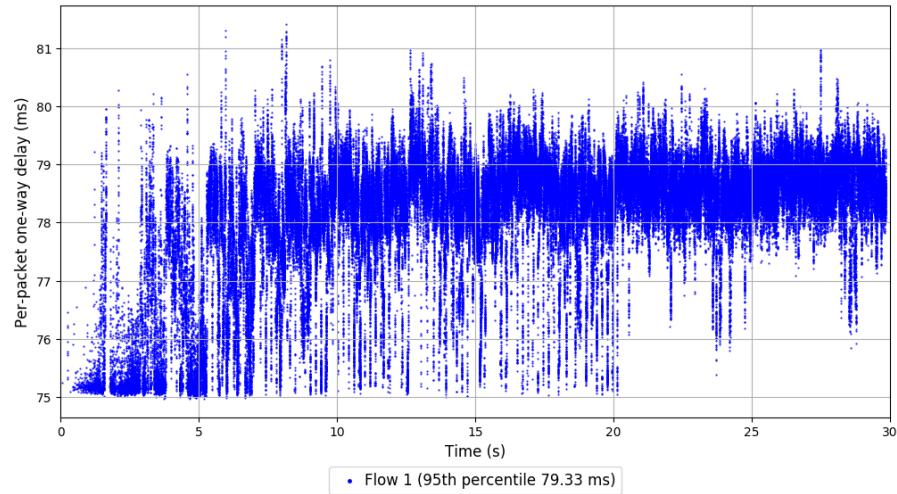
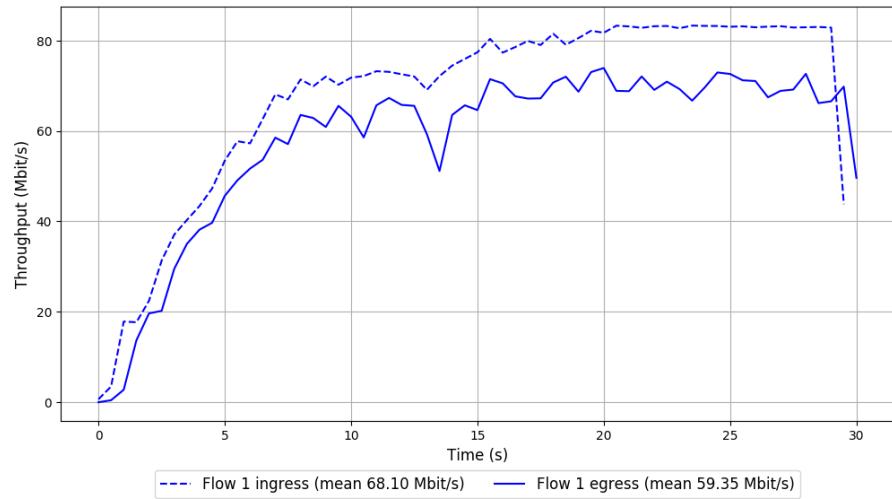


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-11 23:24:38
End at: 2019-07-11 23:25:08
Local clock offset: -0.731 ms
Remote clock offset: -5.792 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.35 Mbit/s
95th percentile per-packet one-way delay: 79.327 ms
Loss rate: 12.84%
-- Flow 1:
Average throughput: 59.35 Mbit/s
95th percentile per-packet one-way delay: 79.327 ms
Loss rate: 12.84%
```

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

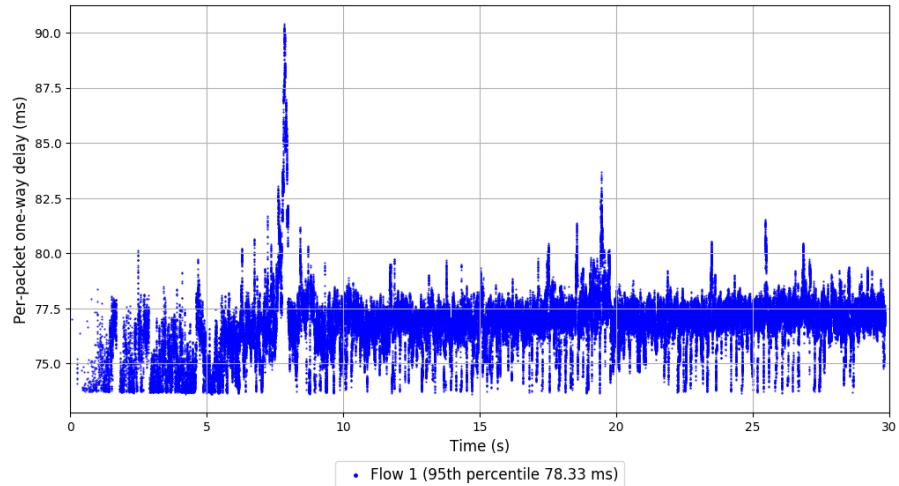
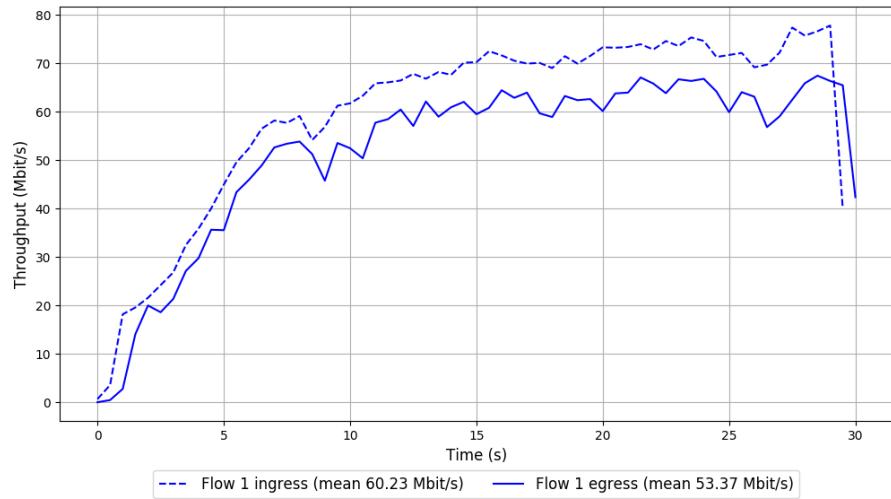


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-11 23:52:47
End at: 2019-07-11 23:53:17
Local clock offset: -2.902 ms
Remote clock offset: -5.565 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.37 Mbit/s
95th percentile per-packet one-way delay: 78.334 ms
Loss rate: 11.40%
-- Flow 1:
Average throughput: 53.37 Mbit/s
95th percentile per-packet one-way delay: 78.334 ms
Loss rate: 11.40%
```

Run 3: Report of Muses\_DecisionTreeR0 — Data Link

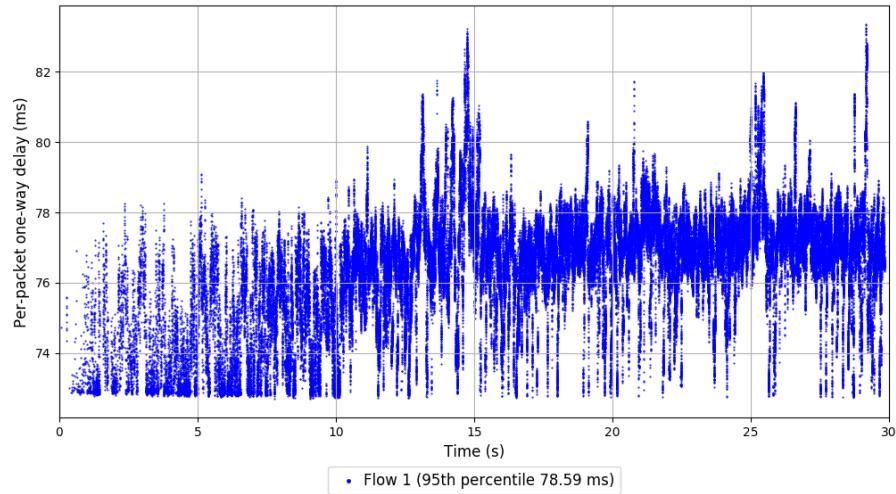
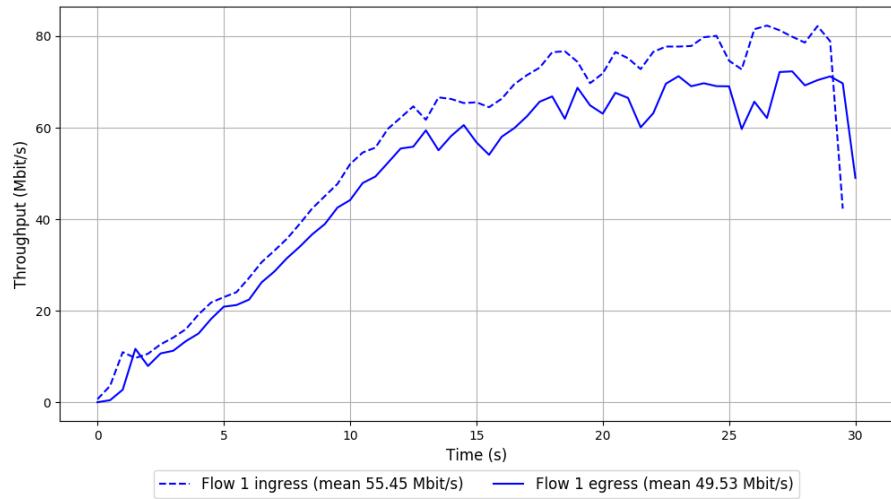


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 00:21:04
End at: 2019-07-12 00:21:34
Local clock offset: -2.932 ms
Remote clock offset: -6.338 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 78.593 ms
Loss rate: 10.67%
-- Flow 1:
Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 78.593 ms
Loss rate: 10.67%
```

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

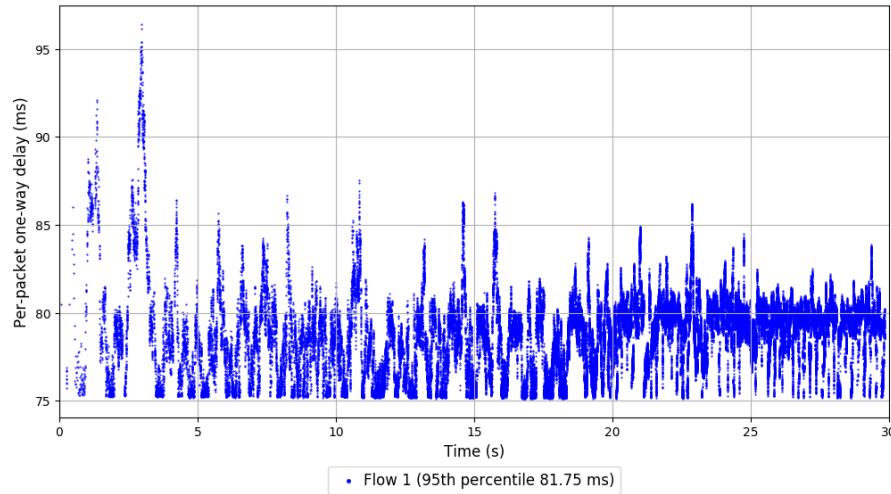
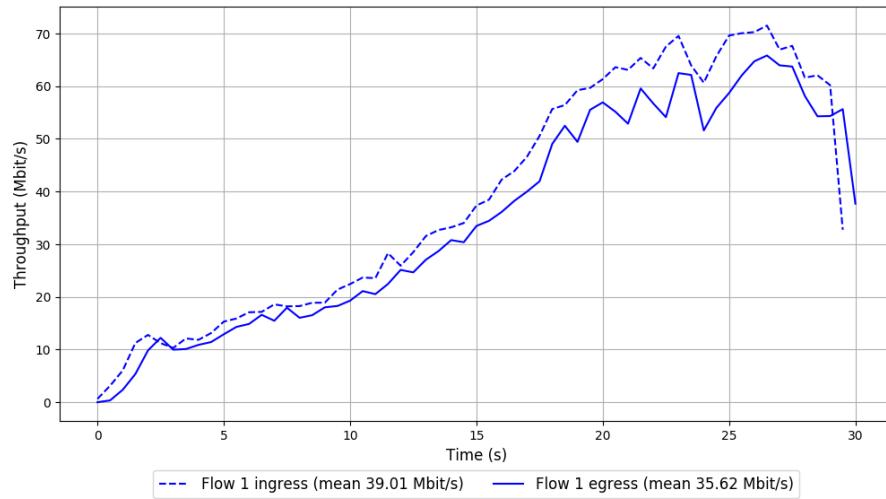


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 00:49:14
End at: 2019-07-12 00:49:44
Local clock offset: -2.074 ms
Remote clock offset: -3.346 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.62 Mbit/s
95th percentile per-packet one-way delay: 81.745 ms
Loss rate: 8.70%
-- Flow 1:
Average throughput: 35.62 Mbit/s
95th percentile per-packet one-way delay: 81.745 ms
Loss rate: 8.70%
```

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

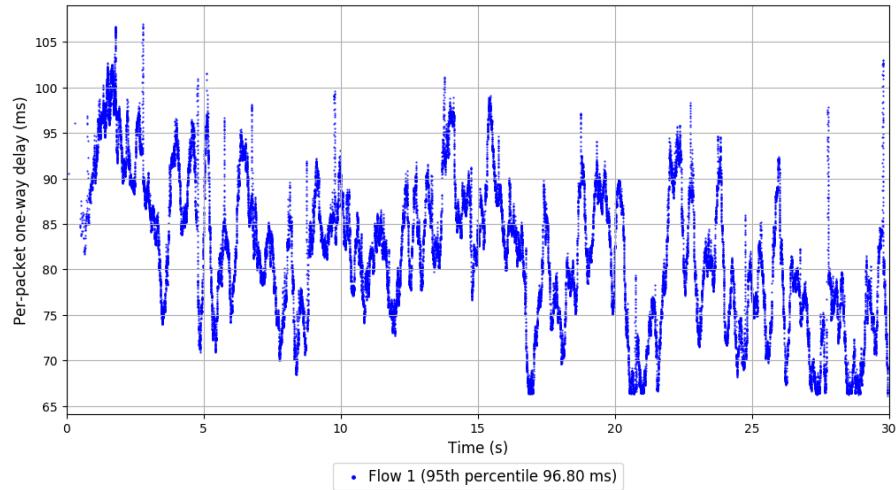
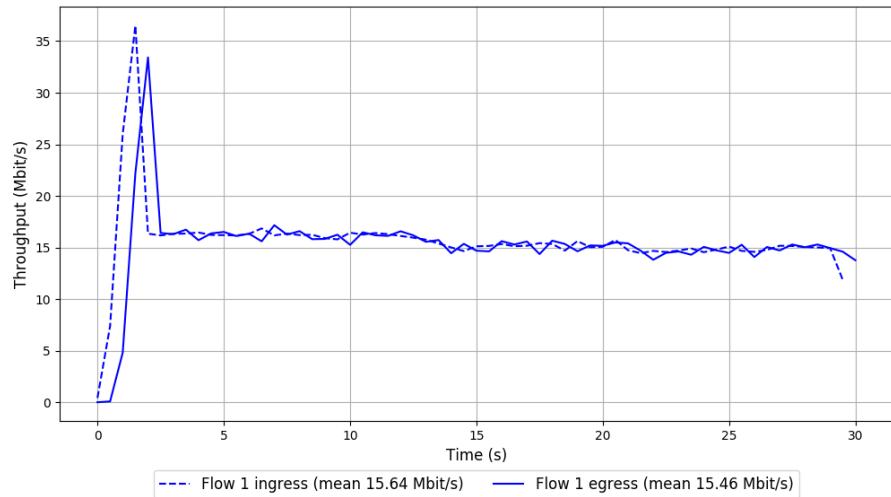


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-07-11 22:52:05
End at: 2019-07-11 22:52:35
Local clock offset: -1.901 ms
Remote clock offset: -14.062 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 96.804 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 96.804 ms
Loss rate: 1.23%
```

Run 1: Report of PCC-Allegro — Data Link

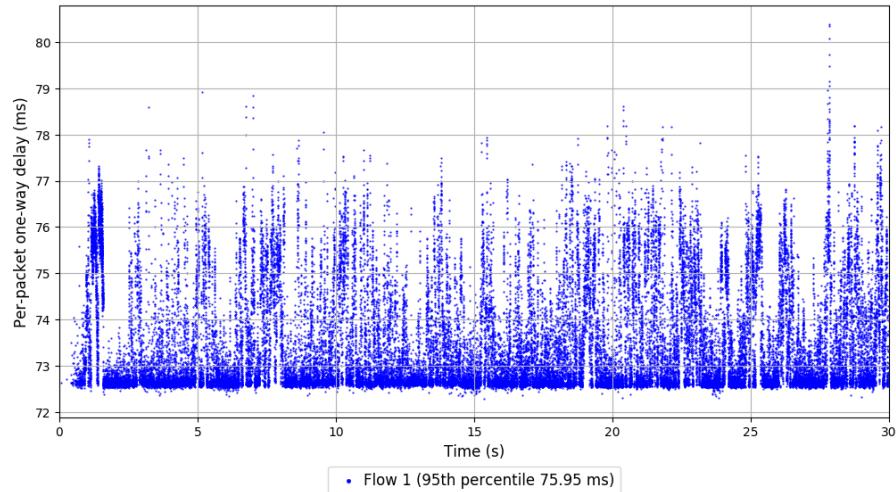
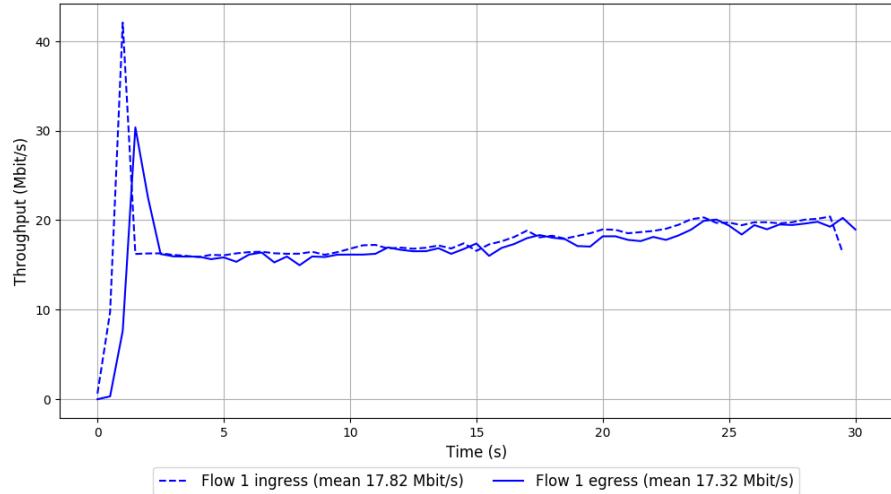


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-07-11 23:19:54
End at: 2019-07-11 23:20:24
Local clock offset: -0.325 ms
Remote clock offset: -7.87 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.32 Mbit/s
95th percentile per-packet one-way delay: 75.951 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 17.32 Mbit/s
95th percentile per-packet one-way delay: 75.951 ms
Loss rate: 2.82%
```

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

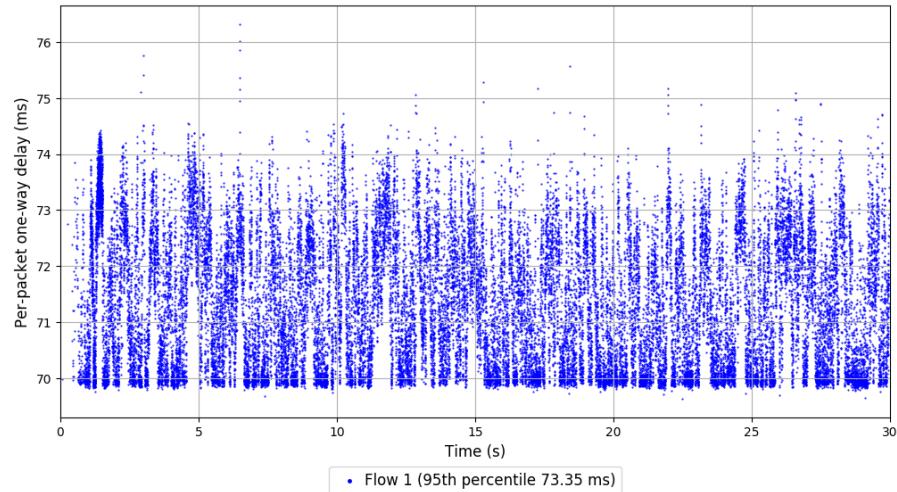
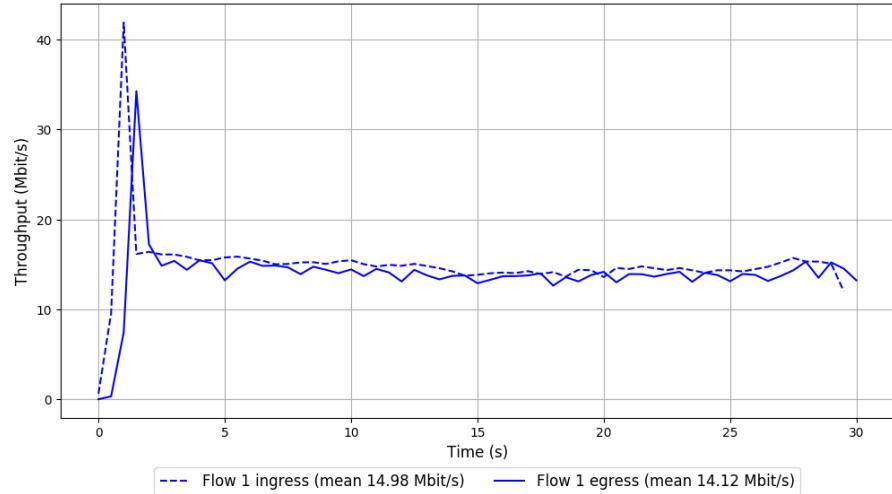


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-07-11 23:48:04
End at: 2019-07-11 23:48:34
Local clock offset: -1.811 ms
Remote clock offset: -10.606 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.12 Mbit/s
95th percentile per-packet one-way delay: 73.352 ms
Loss rate: 5.77%
-- Flow 1:
Average throughput: 14.12 Mbit/s
95th percentile per-packet one-way delay: 73.352 ms
Loss rate: 5.77%
```

### Run 3: Report of PCC-Allegro — Data Link

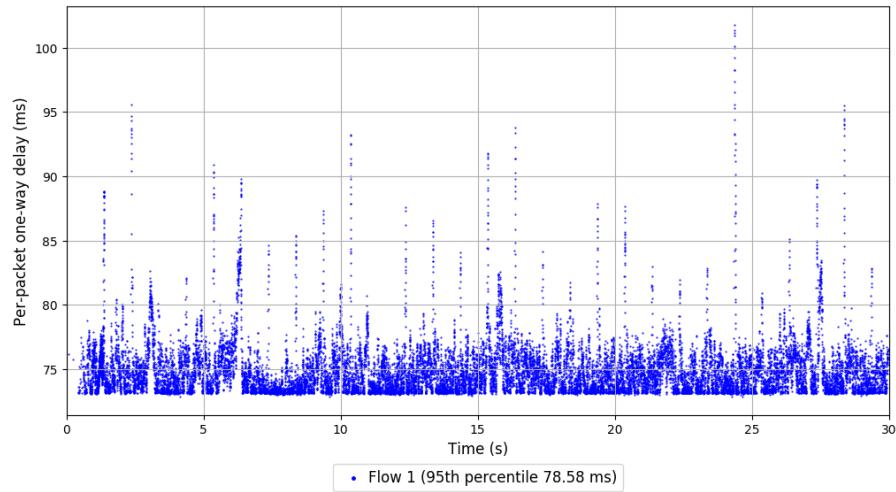
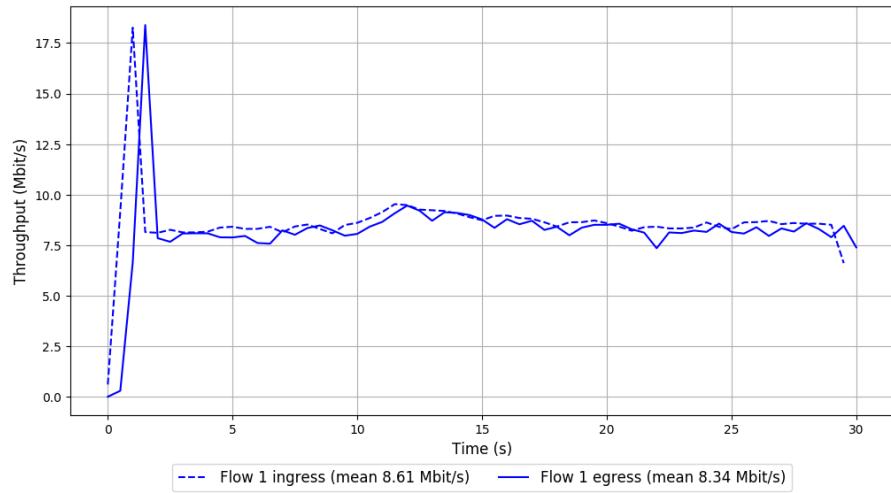


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-07-12 00:16:21
End at: 2019-07-12 00:16:51
Local clock offset: -2.929 ms
Remote clock offset: -6.681 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 78.576 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 78.576 ms
Loss rate: 3.22%
```

Run 4: Report of PCC-Allegro — Data Link

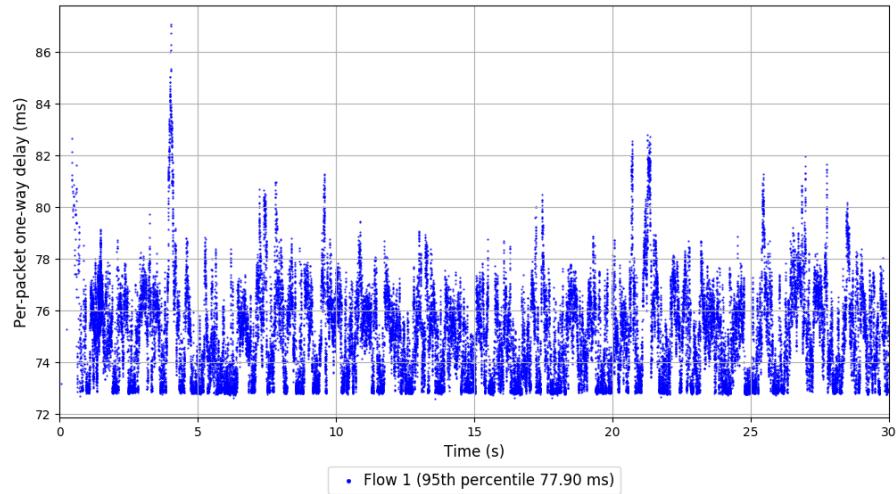
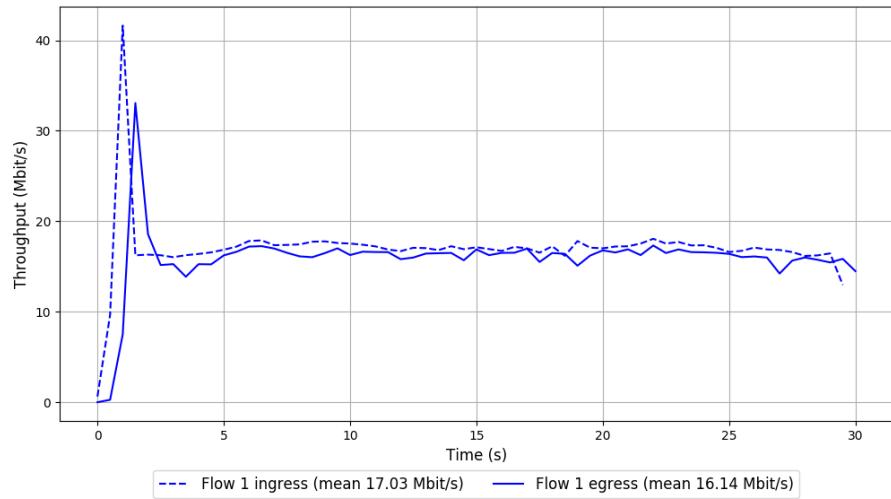


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-07-12 00:44:31
End at: 2019-07-12 00:45:01
Local clock offset: -1.504 ms
Remote clock offset: -5.279 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.14 Mbit/s
95th percentile per-packet one-way delay: 77.900 ms
Loss rate: 5.20%
-- Flow 1:
Average throughput: 16.14 Mbit/s
95th percentile per-packet one-way delay: 77.900 ms
Loss rate: 5.20%
```

Run 5: Report of PCC-Allegro — Data Link

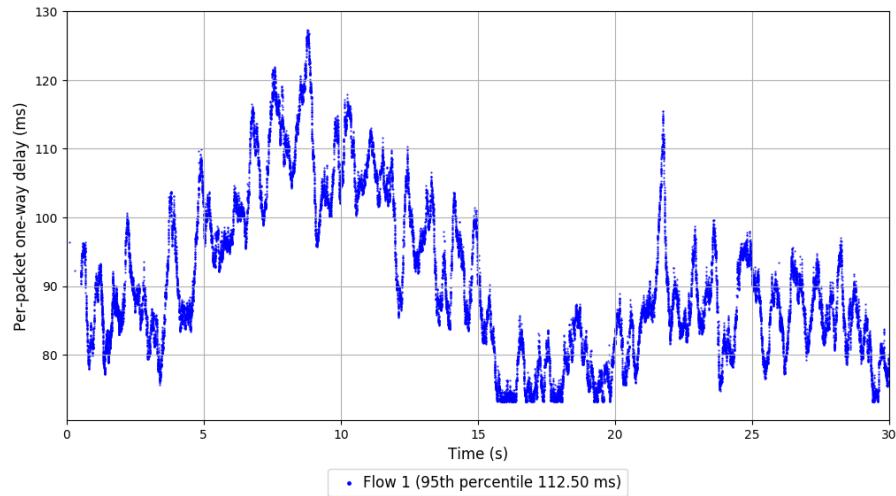
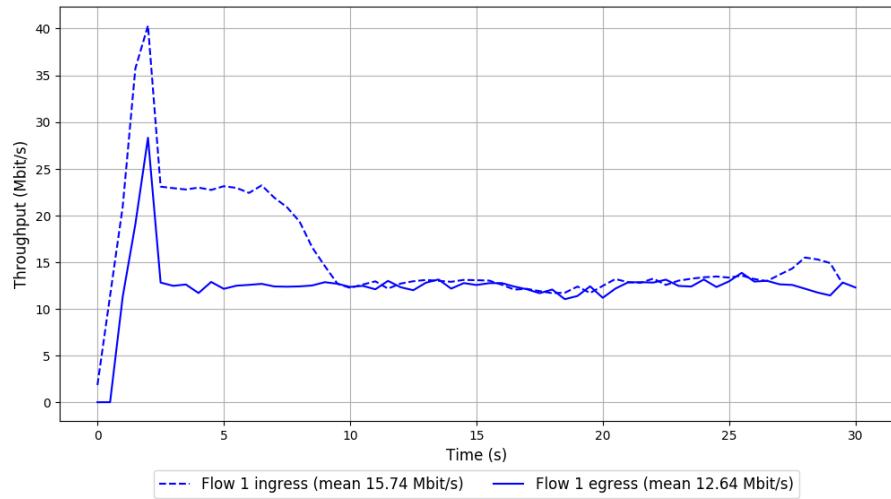


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-07-11 22:45:00
End at: 2019-07-11 22:45:30
Local clock offset: -2.017 ms
Remote clock offset: -8.744 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.64 Mbit/s
95th percentile per-packet one-way delay: 112.503 ms
Loss rate: 19.74%
-- Flow 1:
Average throughput: 12.64 Mbit/s
95th percentile per-packet one-way delay: 112.503 ms
Loss rate: 19.74%
```

Run 1: Report of PCC-Expr — Data Link

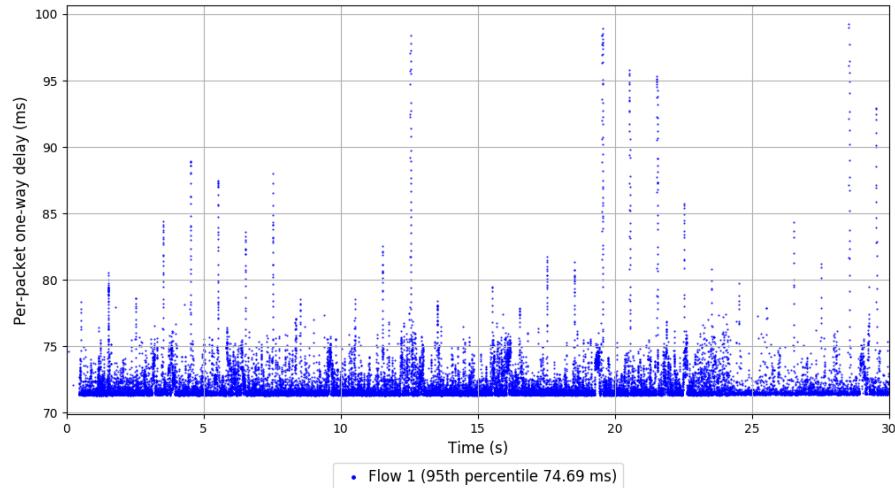
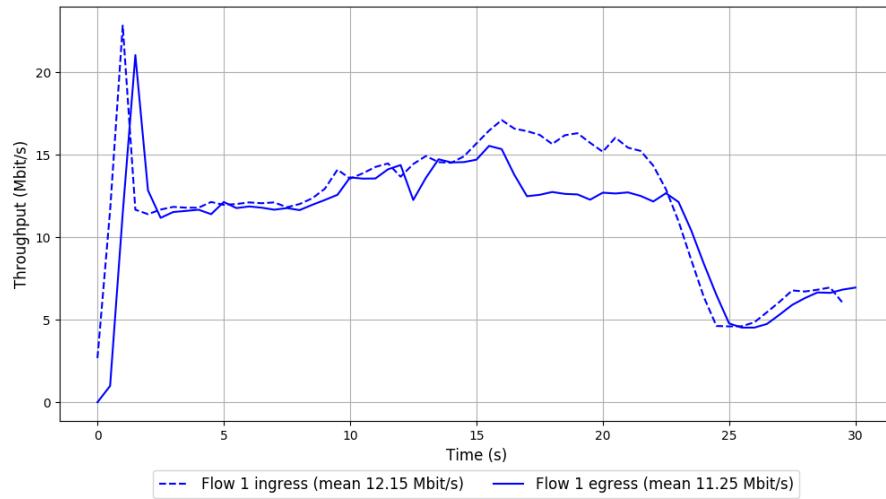


Run 2: Statistics of PCC-Expr

```
Start at: 2019-07-11 23:12:59
End at: 2019-07-11 23:13:29
Local clock offset: -0.621 ms
Remote clock offset: -7.815 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.25 Mbit/s
95th percentile per-packet one-way delay: 74.685 ms
Loss rate: 7.47%
-- Flow 1:
Average throughput: 11.25 Mbit/s
95th percentile per-packet one-way delay: 74.685 ms
Loss rate: 7.47%
```

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

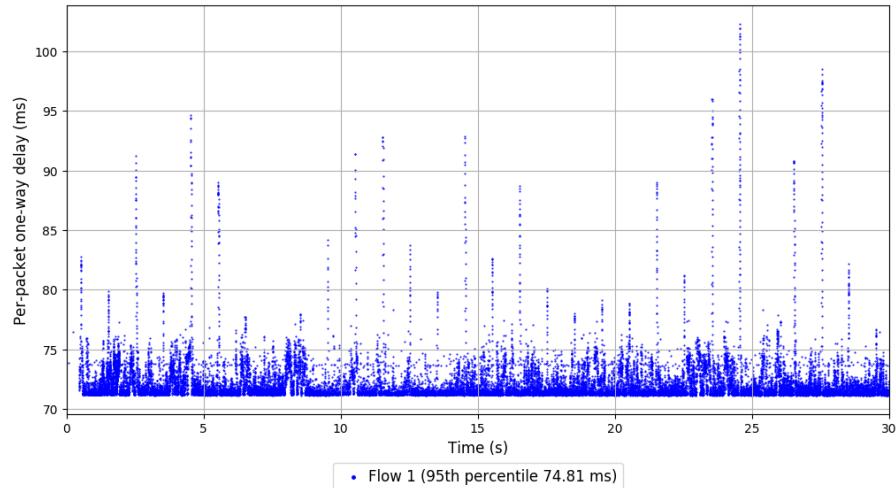
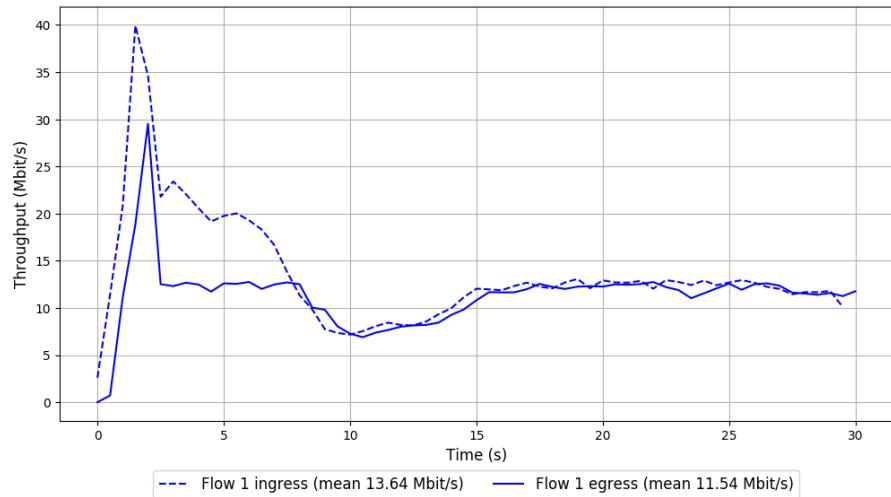


Run 3: Statistics of PCC-Expr

```
Start at: 2019-07-11 23:41:03
End at: 2019-07-11 23:41:33
Local clock offset: -1.513 ms
Remote clock offset: -6.955 ms

# Below is generated by plot.py at 2019-07-12 01:06:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 74.807 ms
Loss rate: 15.44%
-- Flow 1:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 74.807 ms
Loss rate: 15.44%
```

### Run 3: Report of PCC-Expr — Data Link

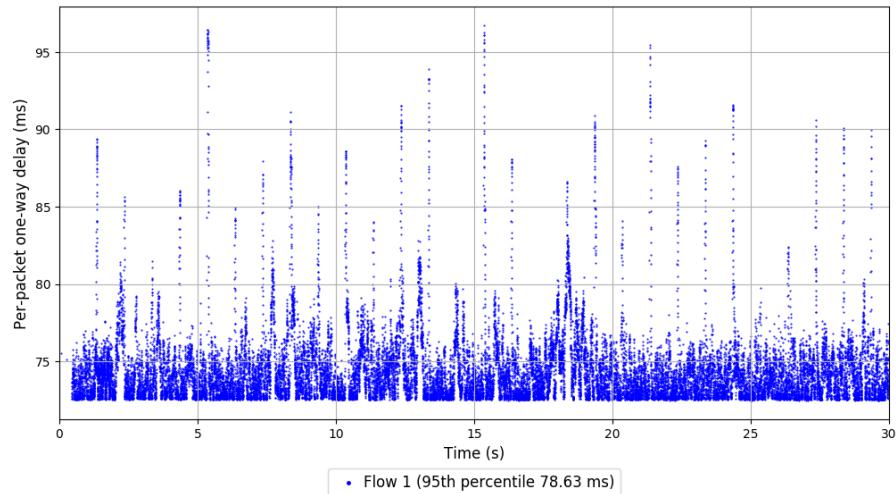
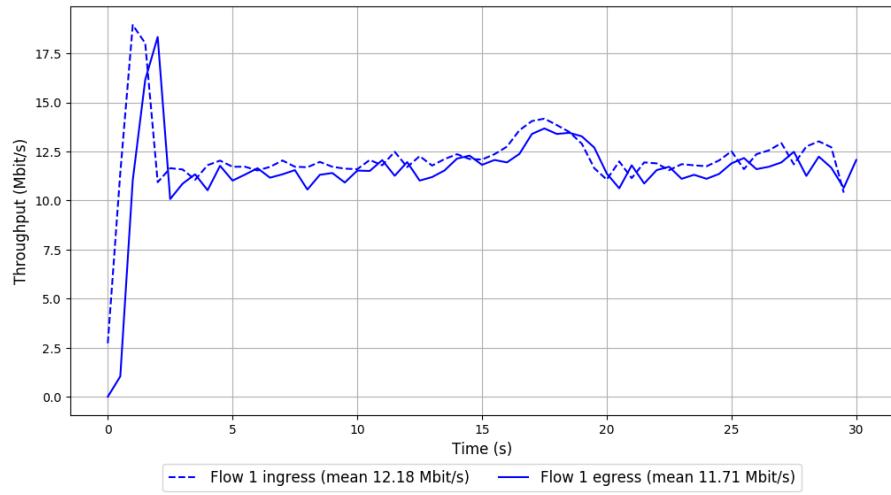


Run 4: Statistics of PCC-Expr

```
Start at: 2019-07-12 00:09:20
End at: 2019-07-12 00:09:50
Local clock offset: -1.975 ms
Remote clock offset: -5.661 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 78.634 ms
Loss rate: 3.85%
-- Flow 1:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 78.634 ms
Loss rate: 3.85%
```

Run 4: Report of PCC-Expr — Data Link

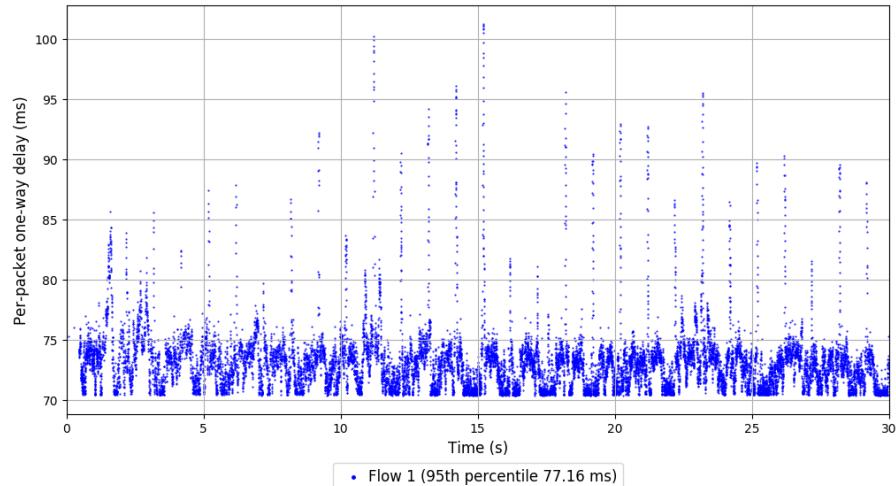
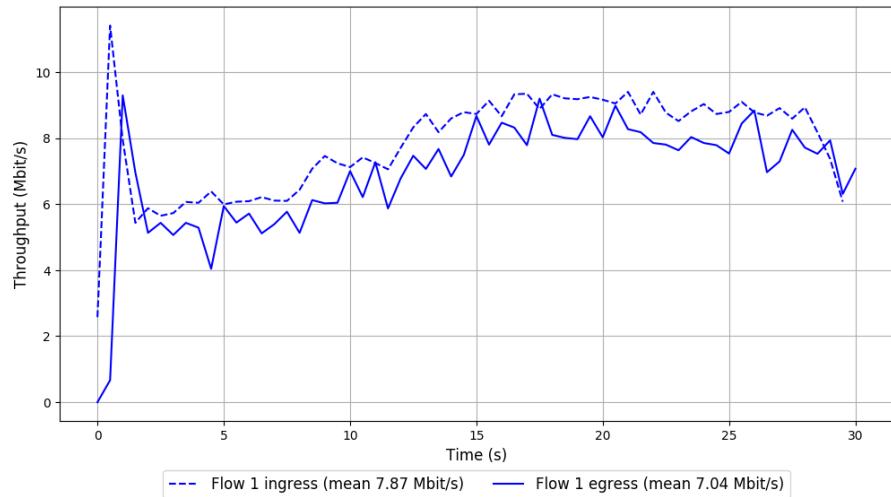


Run 5: Statistics of PCC-Expr

```
Start at: 2019-07-12 00:37:35
End at: 2019-07-12 00:38:05
Local clock offset: -2.331 ms
Remote clock offset: -7.049 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.04 Mbit/s
95th percentile per-packet one-way delay: 77.157 ms
Loss rate: 10.64%
-- Flow 1:
Average throughput: 7.04 Mbit/s
95th percentile per-packet one-way delay: 77.157 ms
Loss rate: 10.64%
```

Run 5: Report of PCC-Expr — Data Link

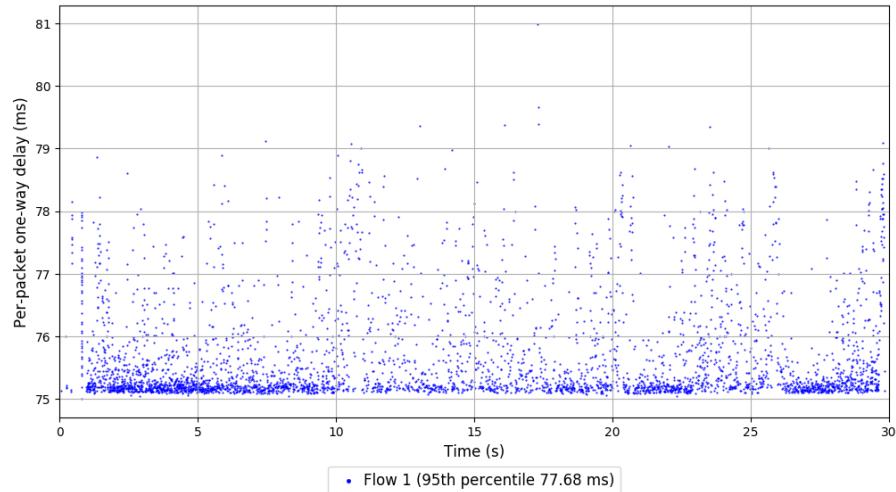
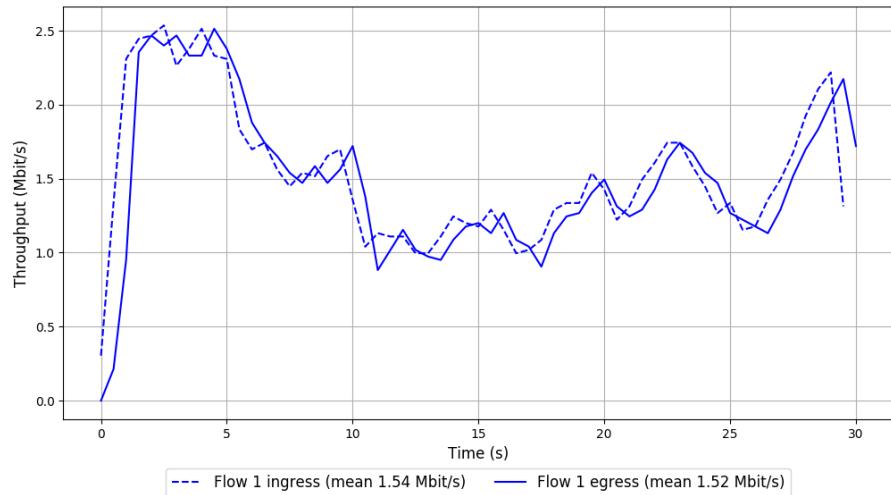


Run 1: Statistics of QUIC Cubic

```
Start at: 2019-07-11 23:01:28
End at: 2019-07-11 23:01:58
Local clock offset: -0.906 ms
Remote clock offset: -6.201 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 77.682 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 77.682 ms
Loss rate: 1.75%
```

Run 1: Report of QUIC Cubic — Data Link

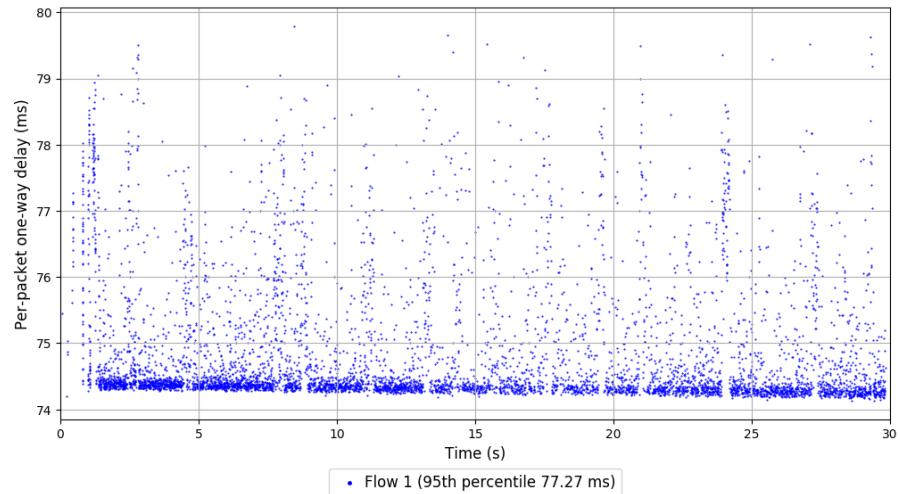
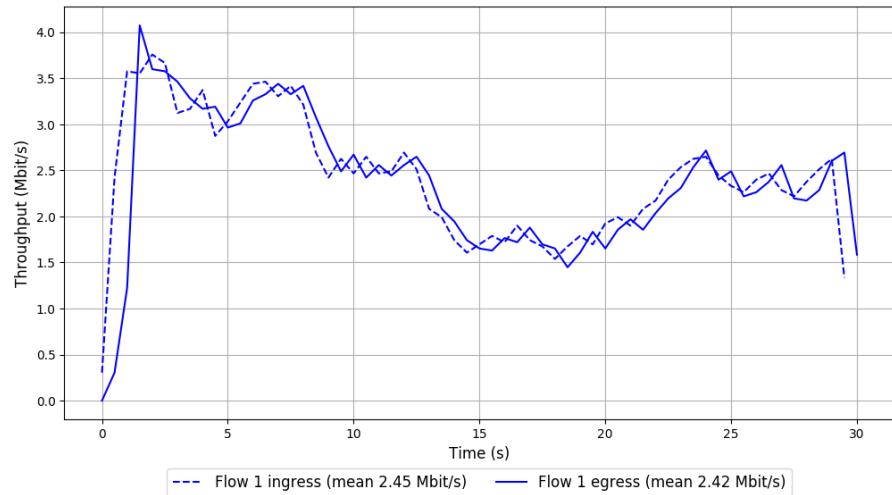


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-07-11 23:29:18
End at: 2019-07-11 23:29:48
Local clock offset: -0.809 ms
Remote clock offset: -7.174 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 77.272 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 77.272 ms
Loss rate: 1.24%
```

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

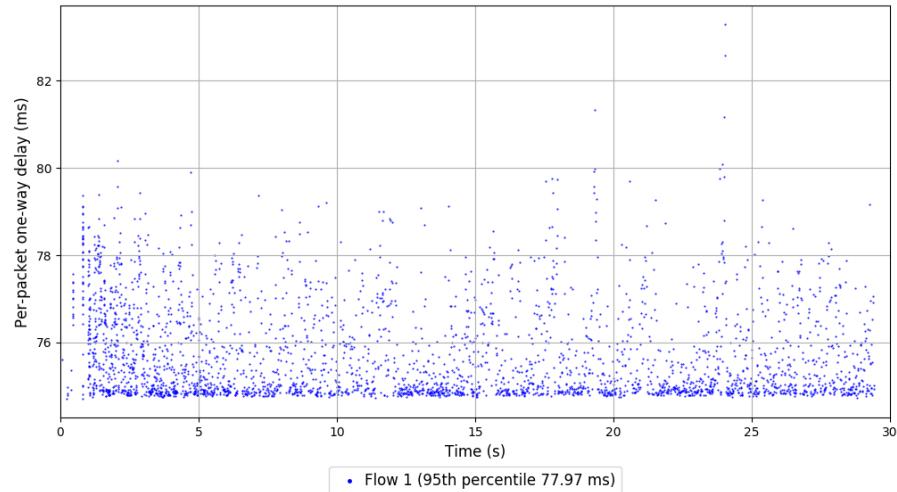
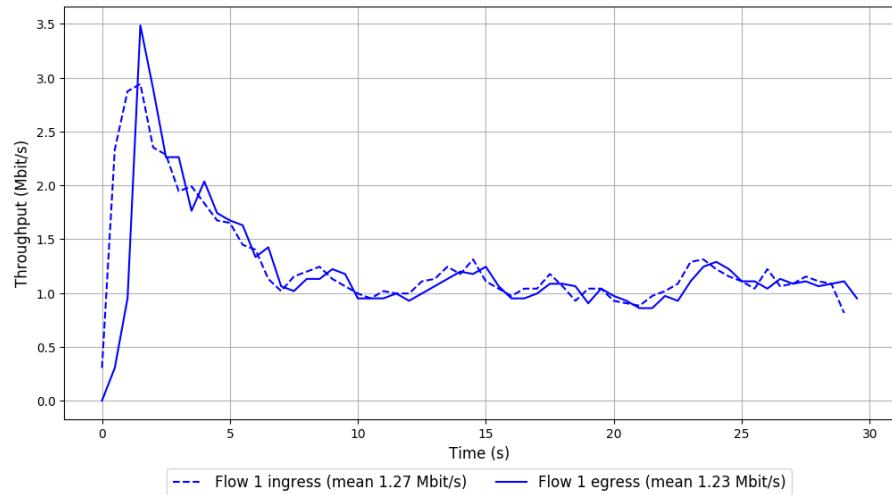


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-07-11 23:57:27
End at: 2019-07-11 23:57:57
Local clock offset: -2.716 ms
Remote clock offset: -6.213 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 77.969 ms
Loss rate: 3.21%
-- Flow 1:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 77.969 ms
Loss rate: 3.21%
```

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

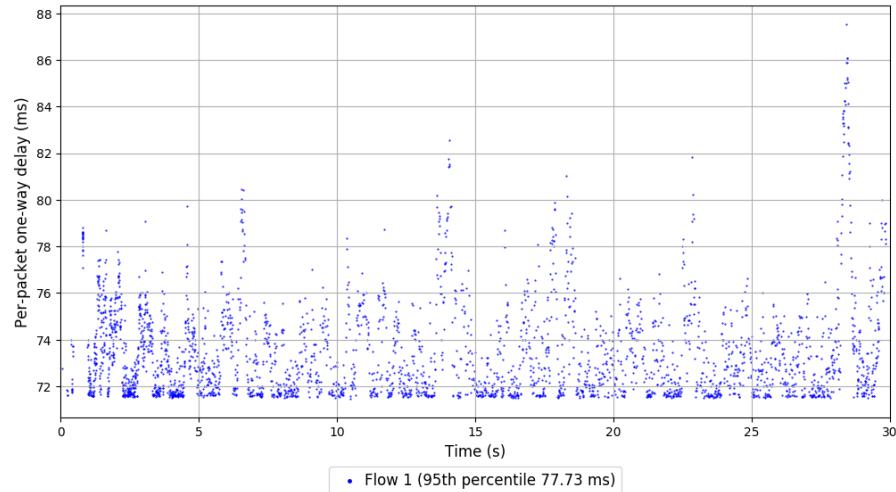
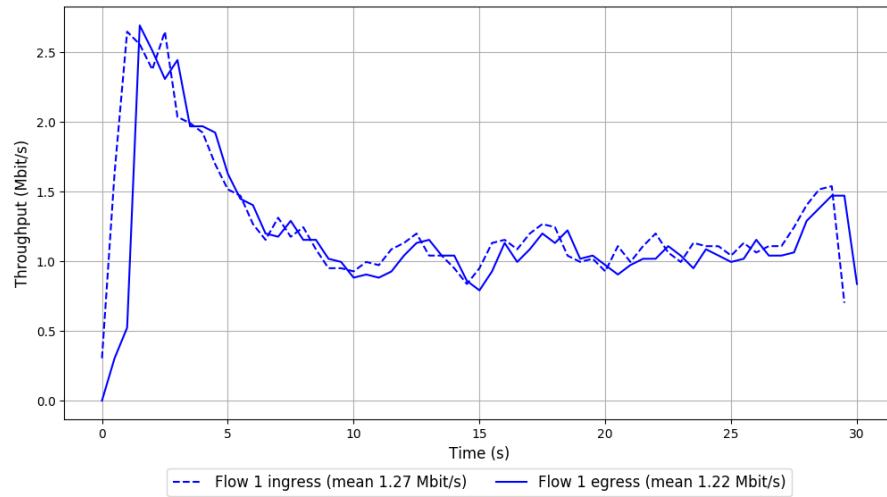


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-07-12 00:25:44
End at: 2019-07-12 00:26:14
Local clock offset: -2.747 ms
Remote clock offset: -6.493 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 77.726 ms
Loss rate: 4.51%
-- Flow 1:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 77.726 ms
Loss rate: 4.51%
```

Run 4: Report of QUIC Cubic — Data Link

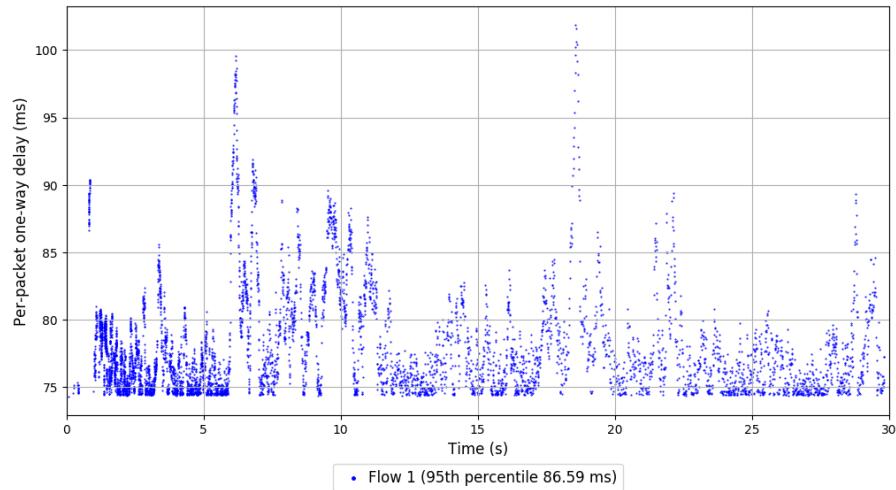
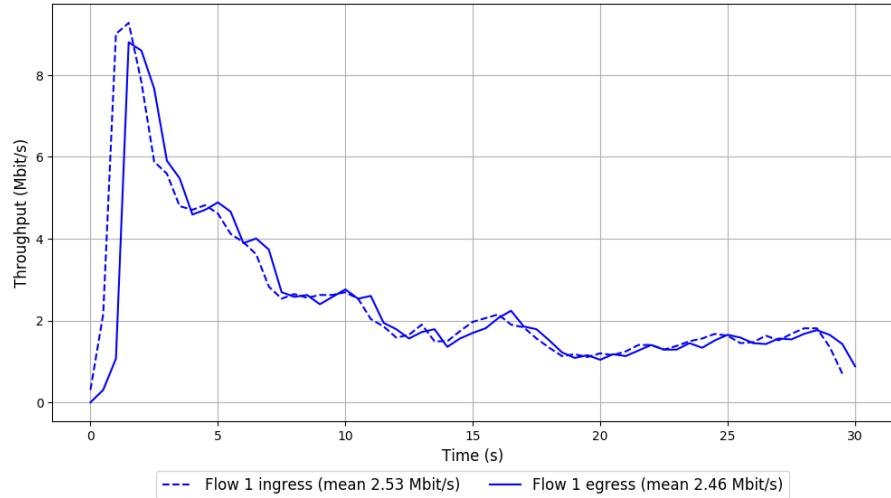


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-07-12 00:53:58
End at: 2019-07-12 00:54:28
Local clock offset: -1.956 ms
Remote clock offset: -3.941 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 86.593 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 86.593 ms
Loss rate: 2.51%
```

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

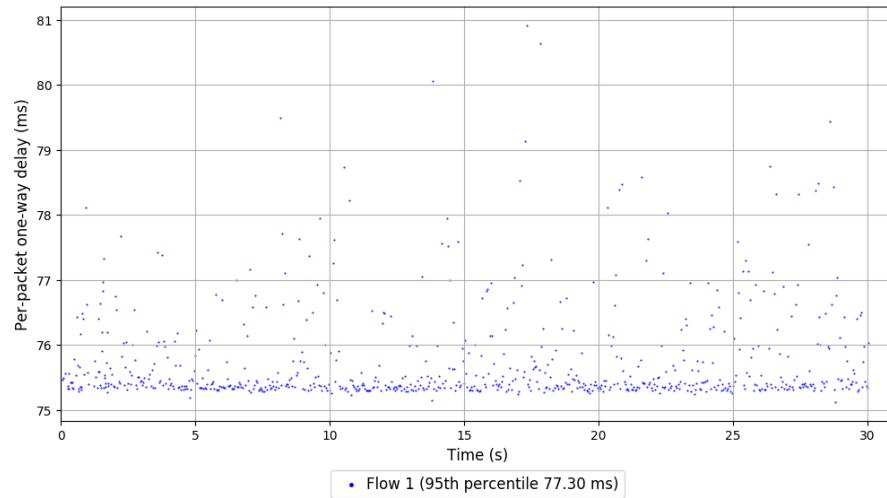
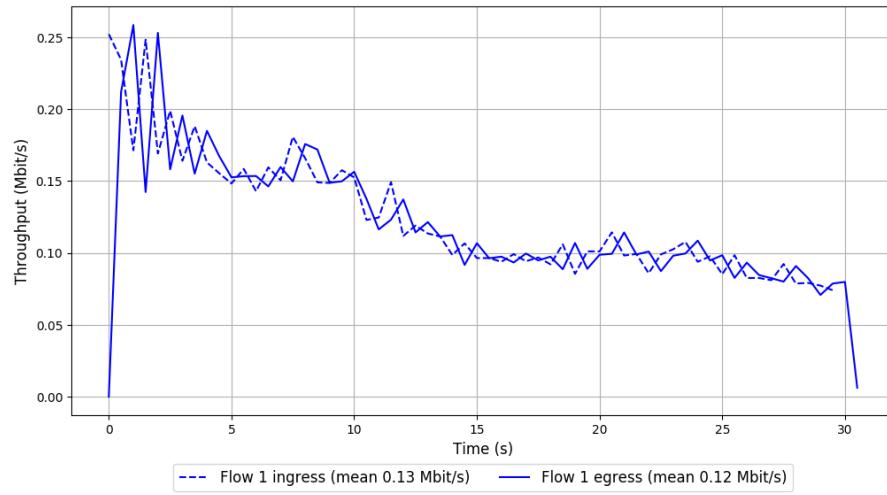


Run 1: Statistics of SCReAM

```
Start at: 2019-07-11 23:06:06
End at: 2019-07-11 23:06:36
Local clock offset: -1.357 ms
Remote clock offset: -6.015 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 77.304 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 77.304 ms
Loss rate: 1.30%
```

Run 1: Report of SCReAM — Data Link

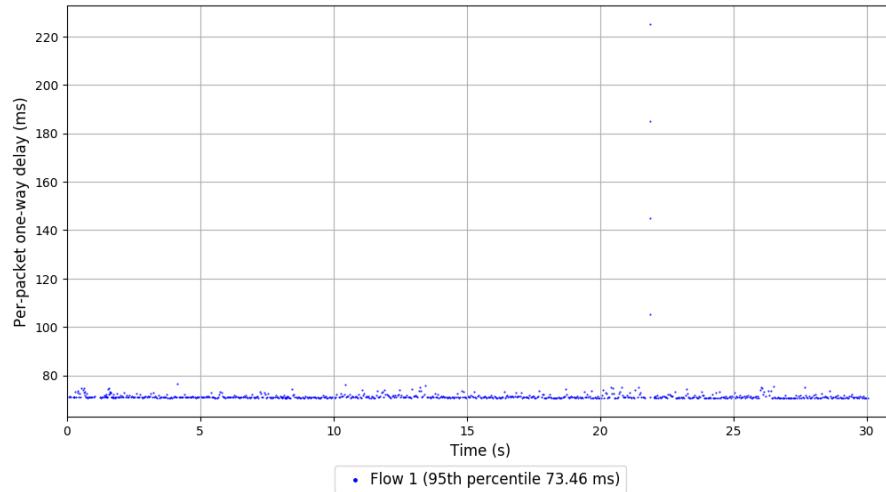
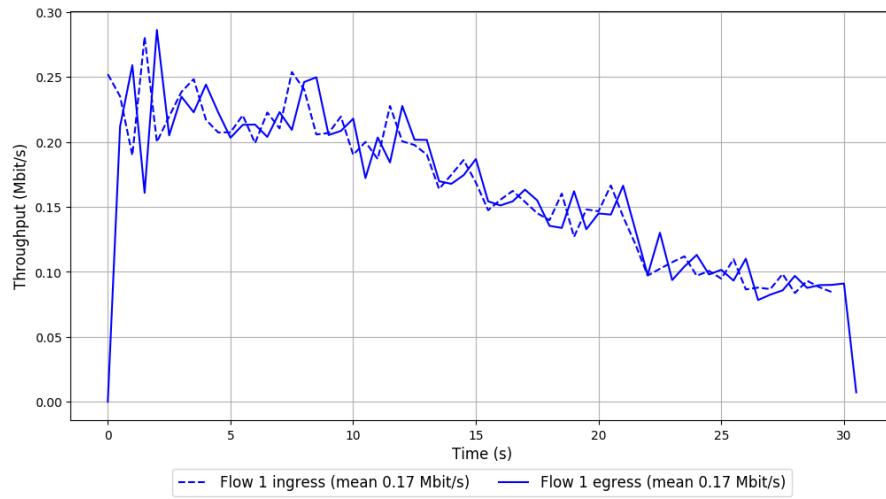


Run 2: Statistics of SCReAM

```
Start at: 2019-07-11 23:33:58
End at: 2019-07-11 23:34:28
Local clock offset: -0.967 ms
Remote clock offset: -7.41 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 73.457 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 73.457 ms
Loss rate: 0.97%
```

Run 2: Report of SCReAM — Data Link

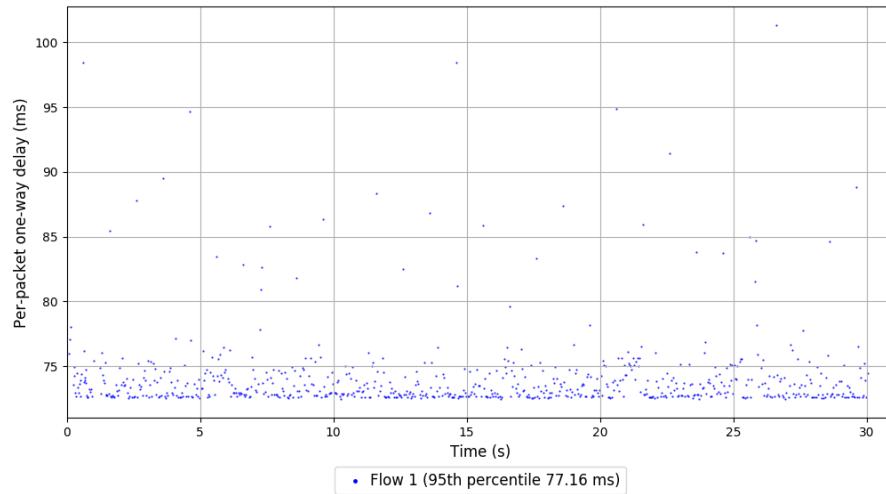
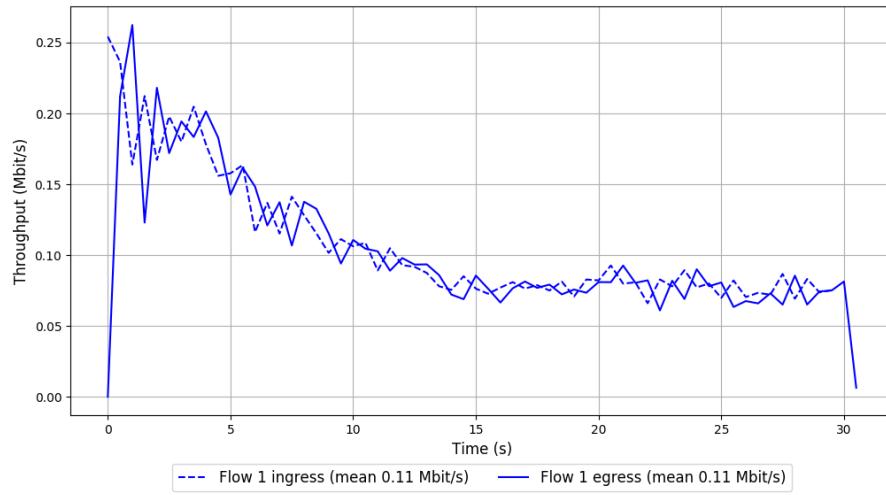


Run 3: Statistics of SCReAM

```
Start at: 2019-07-12 00:02:16
End at: 2019-07-12 00:02:46
Local clock offset: -2.79 ms
Remote clock offset: -7.162 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 77.163 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 77.163 ms
Loss rate: 2.54%
```

Run 3: Report of SCReAM — Data Link

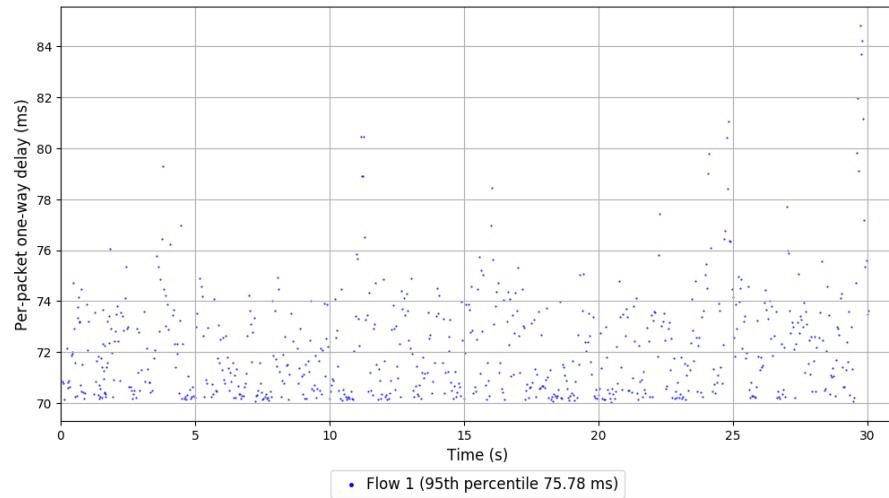
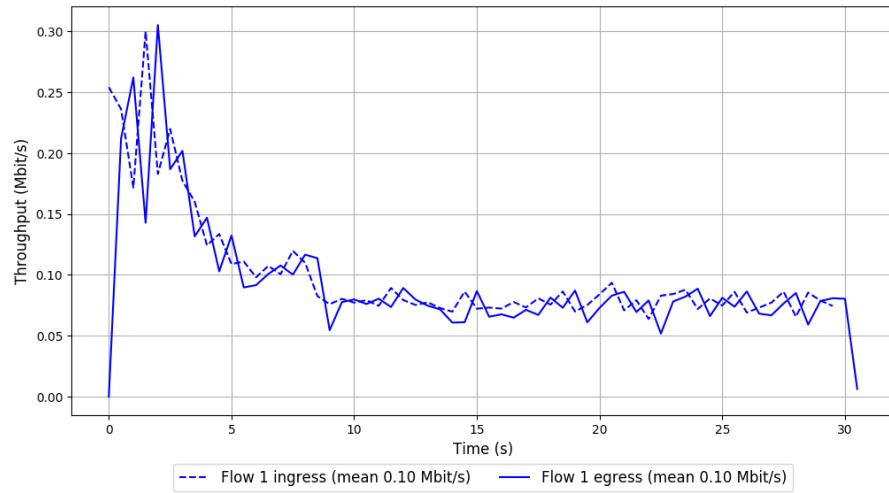


Run 4: Statistics of SCReAM

```
Start at: 2019-07-12 00:30:30
End at: 2019-07-12 00:31:00
Local clock offset: -1.82 ms
Remote clock offset: -8.617 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 75.781 ms
Loss rate: 5.13%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 75.781 ms
Loss rate: 5.13%
```

Run 4: Report of SCReAM — Data Link

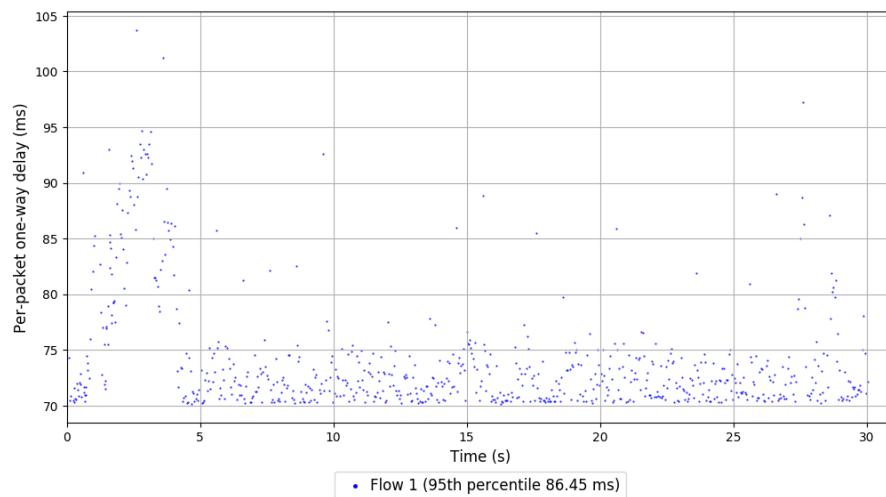
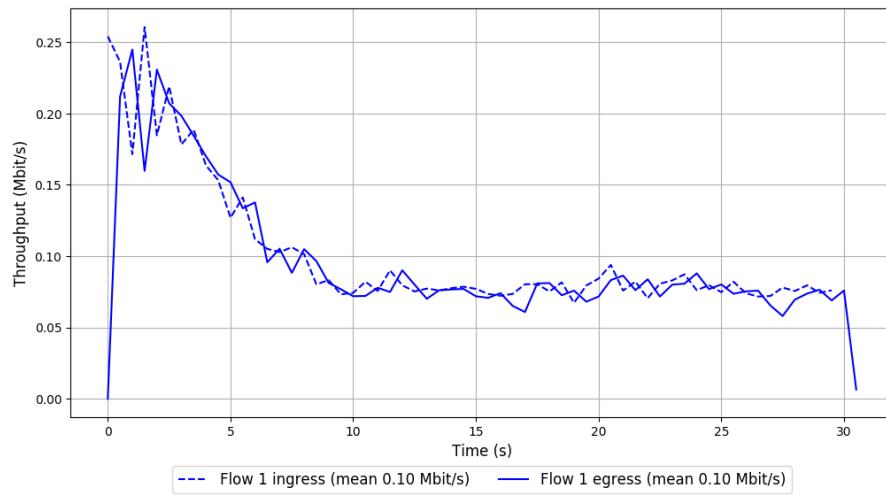


Run 5: Statistics of SCReAM

```
Start at: 2019-07-12 00:58:37
End at: 2019-07-12 00:59:07
Local clock offset: -1.979 ms
Remote clock offset: -7.329 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 86.451 ms
Loss rate: 3.87%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 86.451 ms
Loss rate: 3.87%
```

Run 5: Report of SCReAM — Data Link

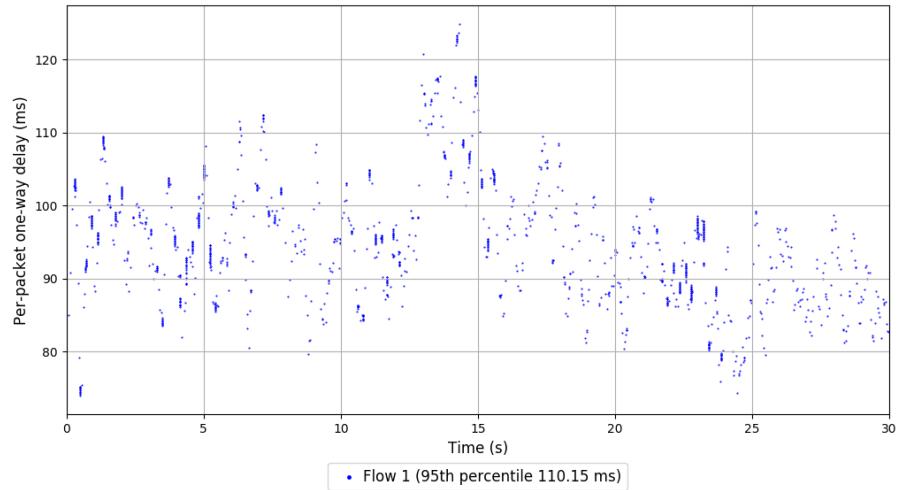
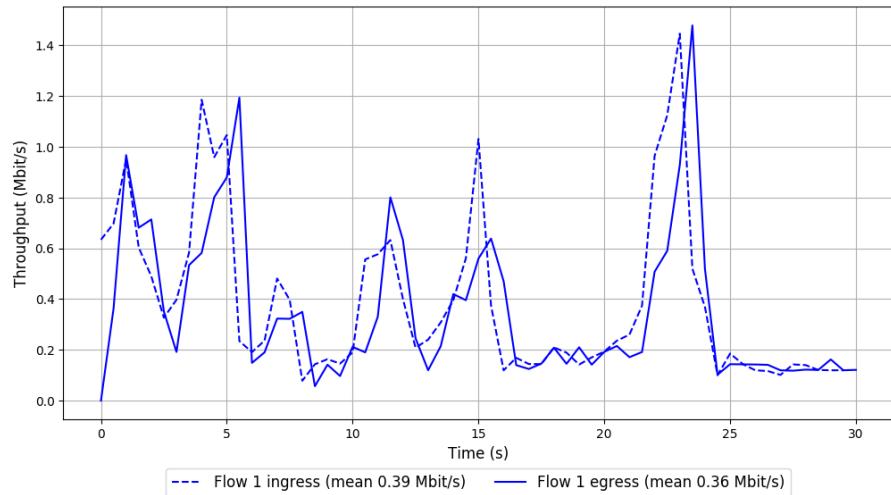


Run 1: Statistics of Sprout

```
Start at: 2019-07-11 22:40:20
End at: 2019-07-11 22:40:50
Local clock offset: -0.753 ms
Remote clock offset: -8.158 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 110.151 ms
Loss rate: 8.57%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 110.151 ms
Loss rate: 8.57%
```

Run 1: Report of Sprout — Data Link

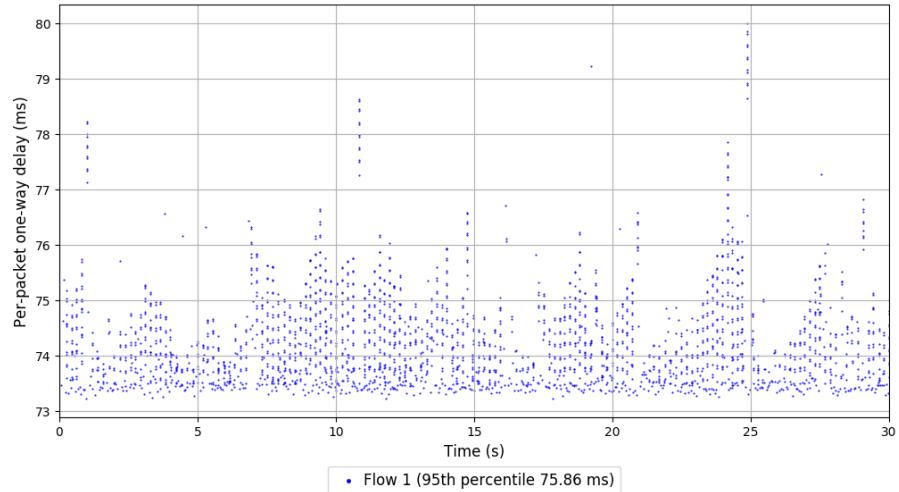
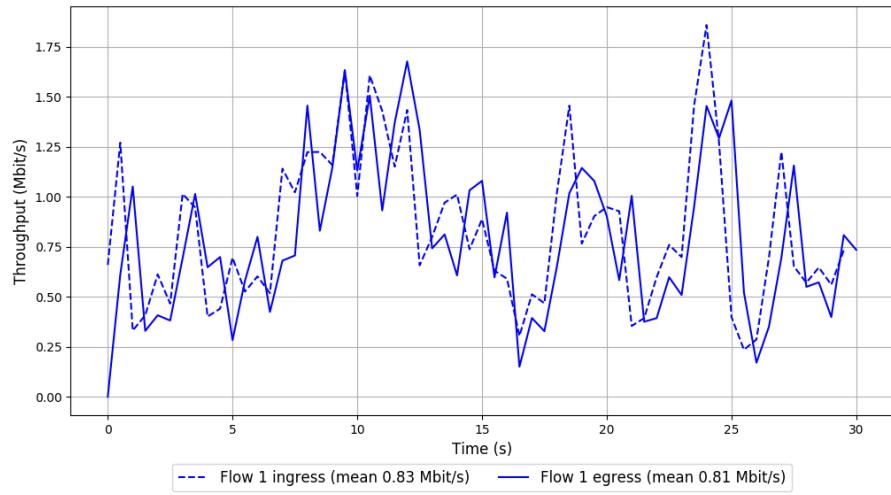


Run 2: Statistics of Sprout

```
Start at: 2019-07-11 23:08:23
End at: 2019-07-11 23:08:53
Local clock offset: -1.598 ms
Remote clock offset: -6.647 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 75.856 ms
Loss rate: 3.05%
-- Flow 1:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 75.856 ms
Loss rate: 3.05%
```

## Run 2: Report of Sprout — Data Link

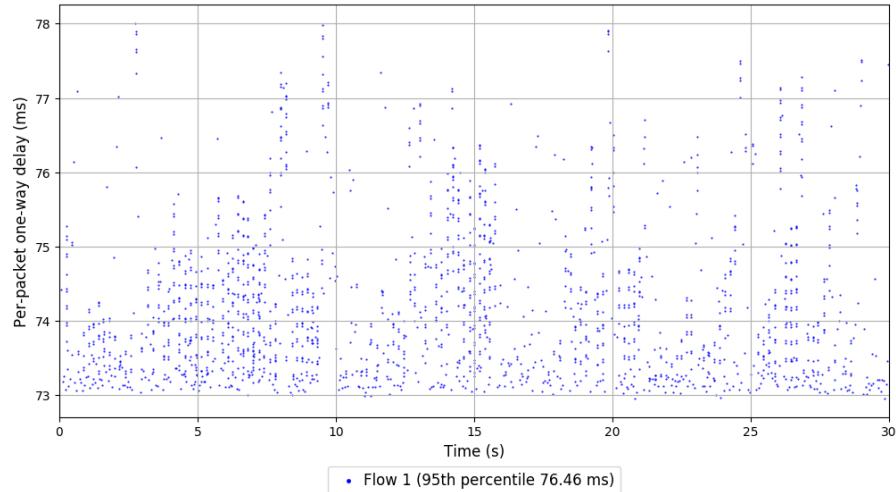
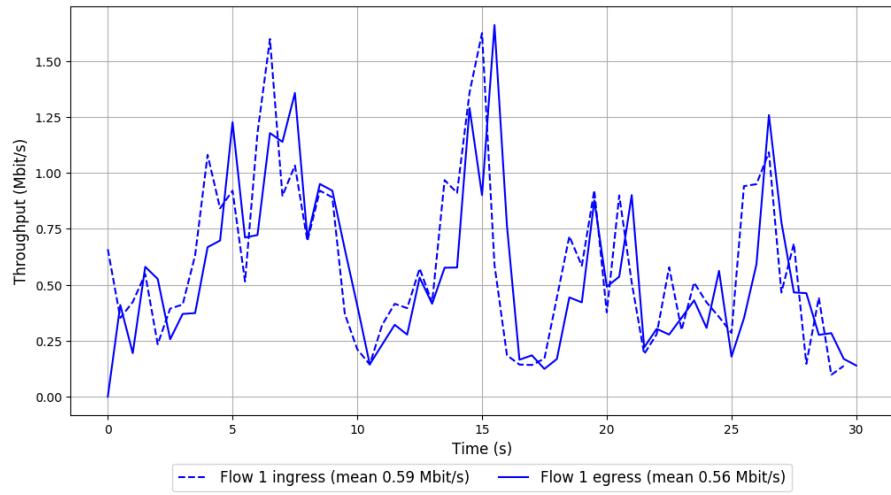


Run 3: Statistics of Sprout

```
Start at: 2019-07-11 23:36:26
End at: 2019-07-11 23:36:56
Local clock offset: -1.912 ms
Remote clock offset: -7.292 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 76.464 ms
Loss rate: 5.70%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 76.464 ms
Loss rate: 5.70%
```

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

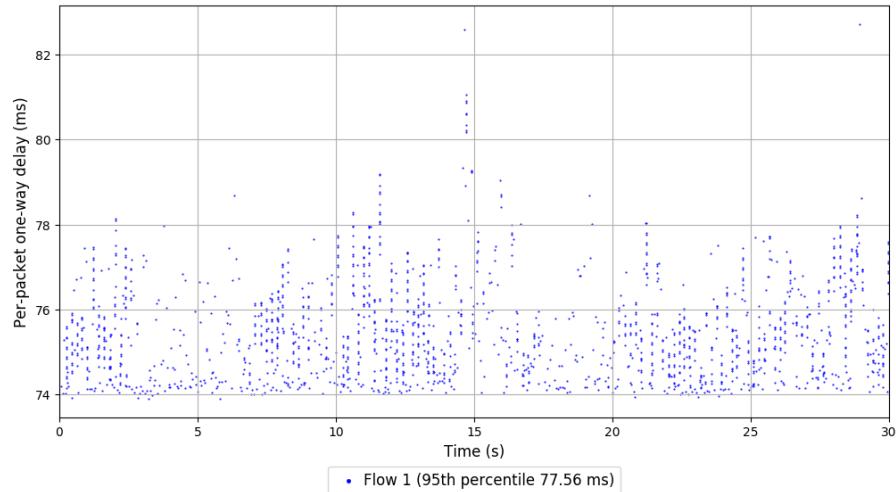
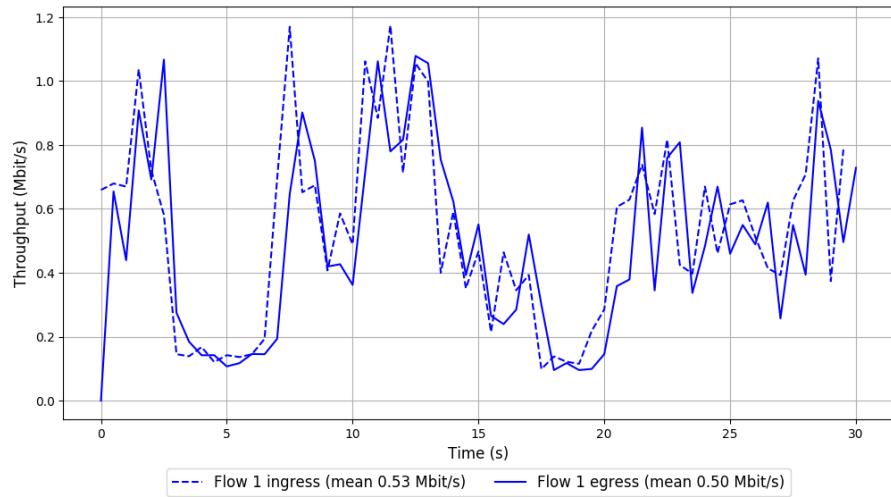


Run 4: Statistics of Sprout

```
Start at: 2019-07-12 00:04:35
End at: 2019-07-12 00:05:05
Local clock offset: -2.965 ms
Remote clock offset: -7.012 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 77.565 ms
Loss rate: 5.60%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 77.565 ms
Loss rate: 5.60%
```

## Run 4: Report of Sprout — Data Link

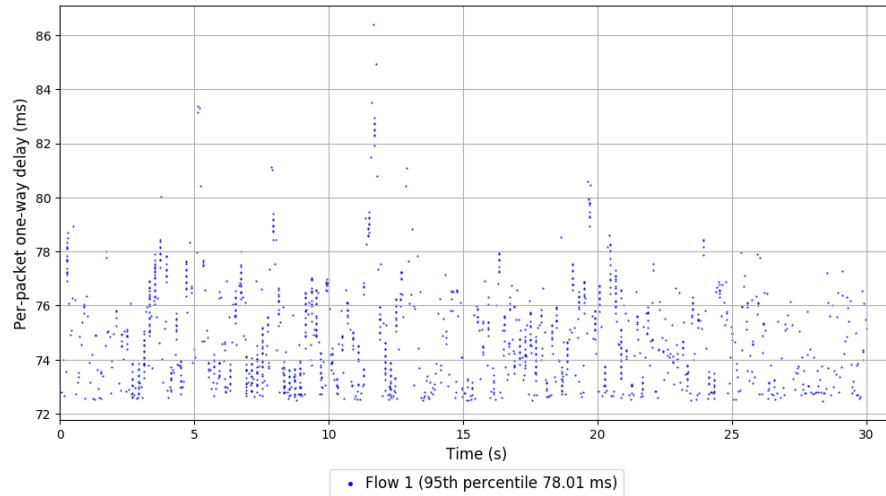
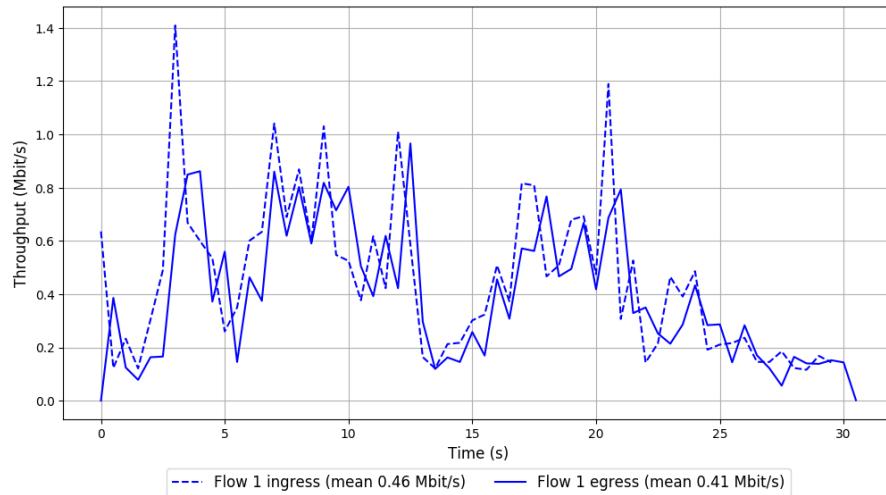


Run 5: Statistics of Sprout

```
Start at: 2019-07-12 00:32:51
End at: 2019-07-12 00:33:21
Local clock offset: -2.463 ms
Remote clock offset: -6.435 ms

# Below is generated by plot.py at 2019-07-12 01:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 78.013 ms
Loss rate: 10.80%
-- Flow 1:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 78.013 ms
Loss rate: 10.80%
```

## Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

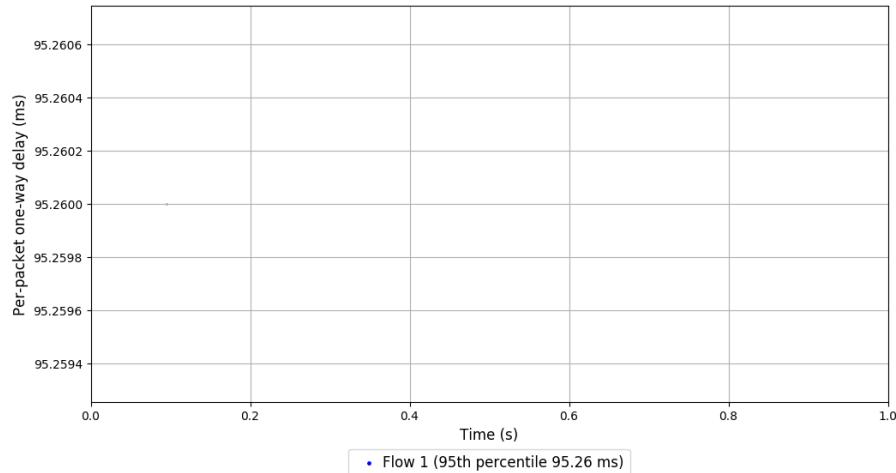
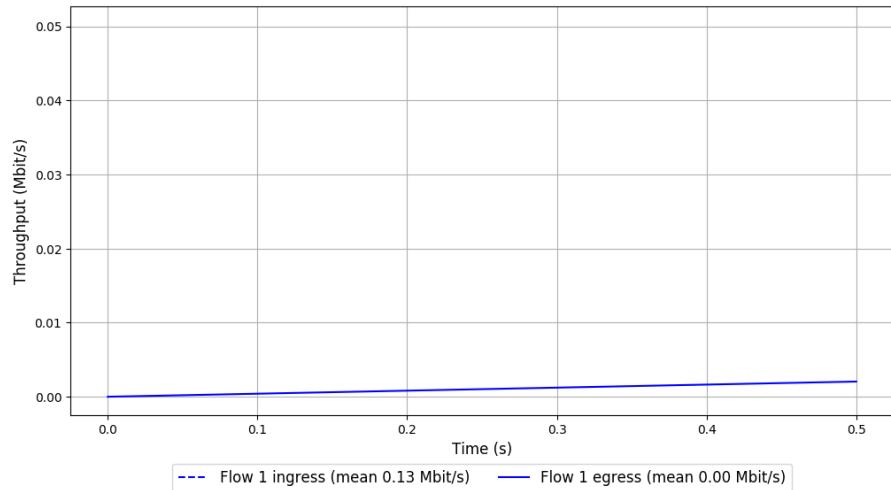
Start at: 2019-07-11 22:41:28

End at: 2019-07-11 22:41:58

Local clock offset: -1.689 ms

Remote clock offset: -8.901 ms

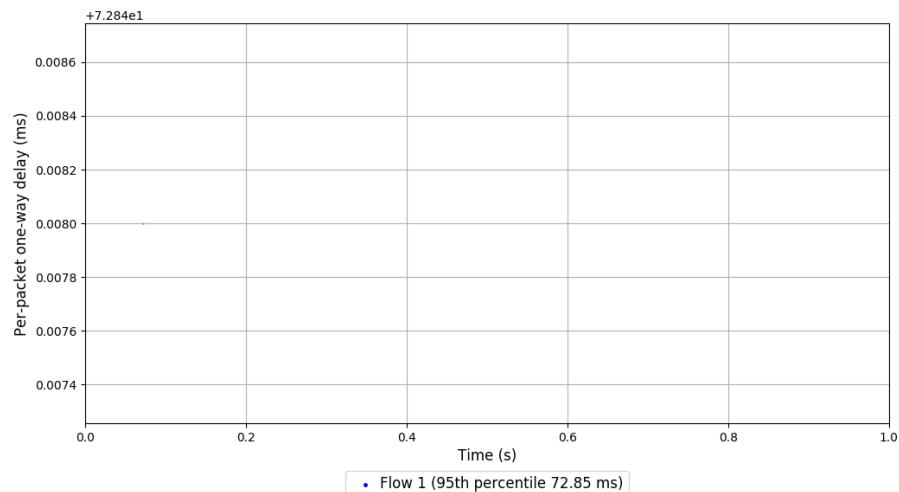
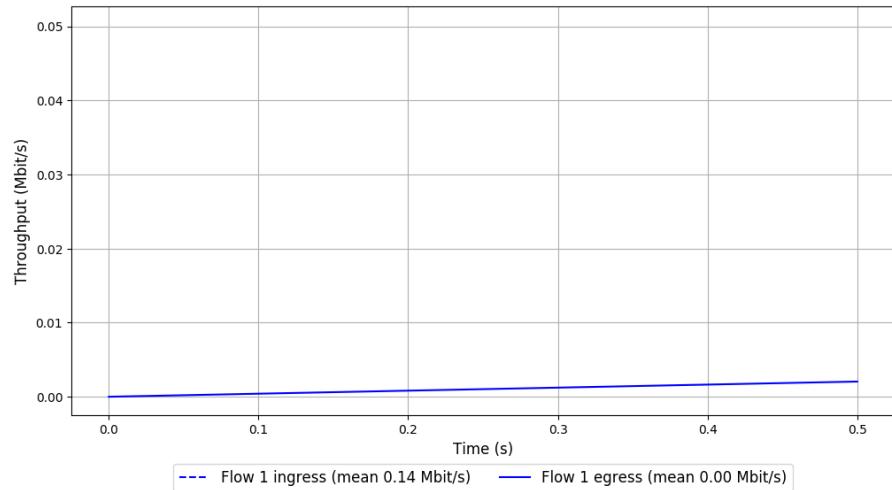
Run 1: Report of TaoVA-100x — Data Link



Run 2: Statistics of TaoVA-100x

Start at: 2019-07-11 23:09:31  
End at: 2019-07-11 23:10:01  
Local clock offset: -0.484 ms  
Remote clock offset: -7.893 ms

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



Run 3: Statistics of TaoVA-100x

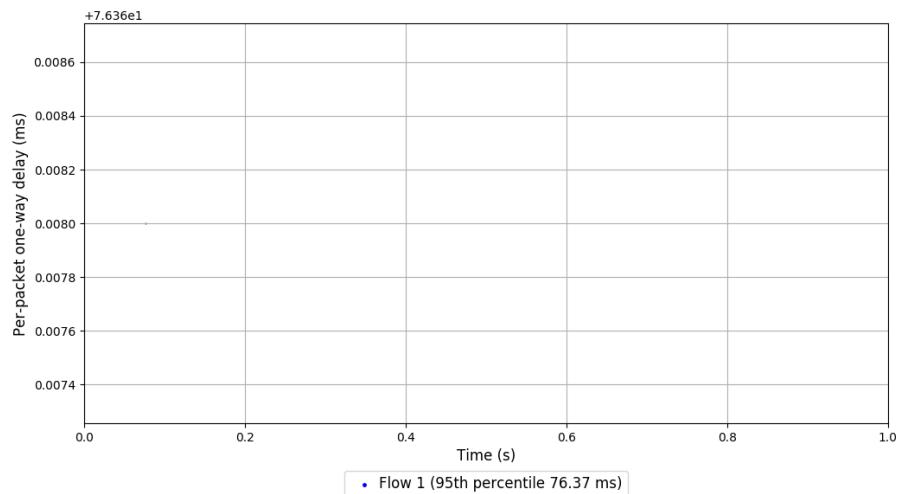
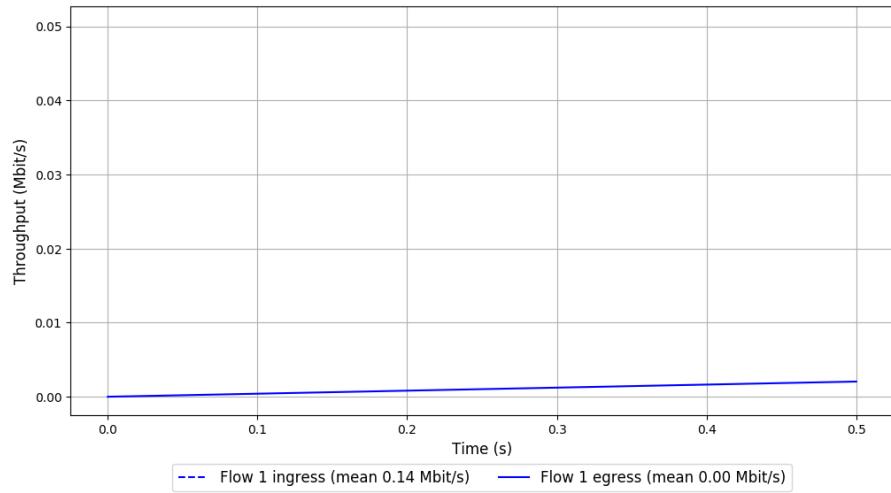
Start at: 2019-07-11 23:37:34

End at: 2019-07-11 23:38:04

Local clock offset: -1.221 ms

Remote clock offset: -5.311 ms

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



Run 4: Statistics of TaoVA-100x

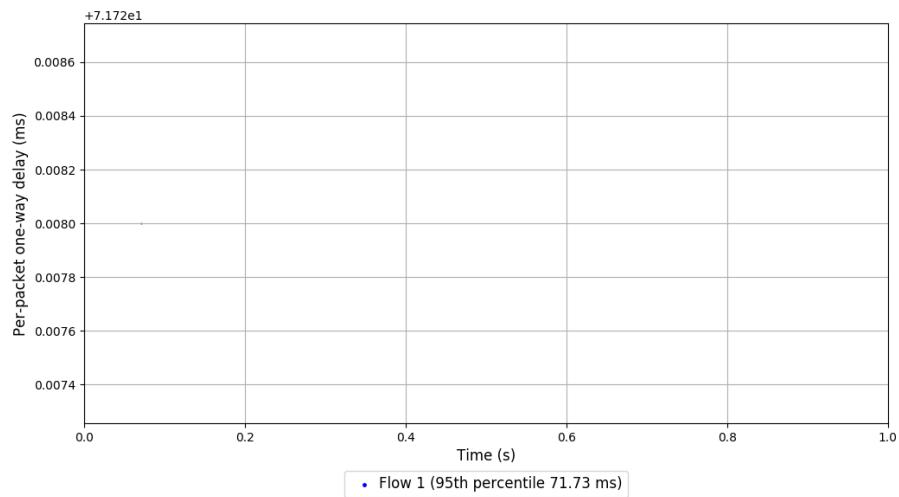
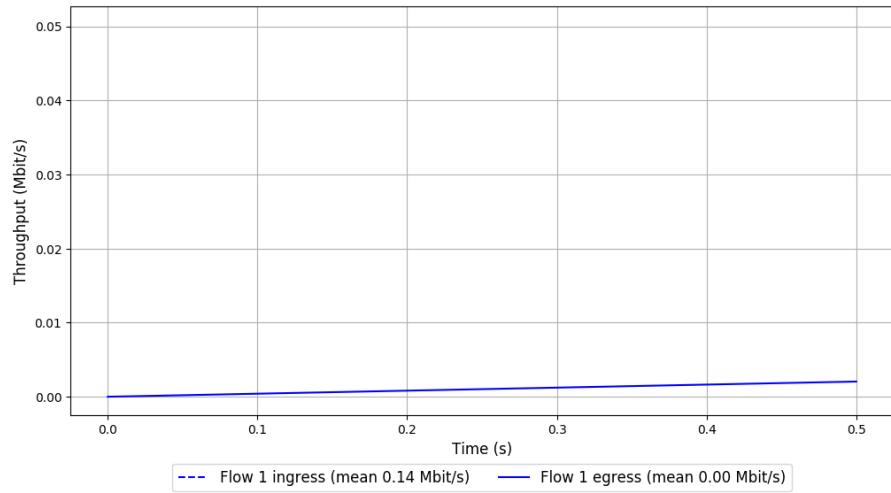
Start at: 2019-07-12 00:05:48

End at: 2019-07-12 00:06:18

Local clock offset: -1.925 ms

Remote clock offset: -6.952 ms

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



Run 5: Statistics of TaoVA-100x

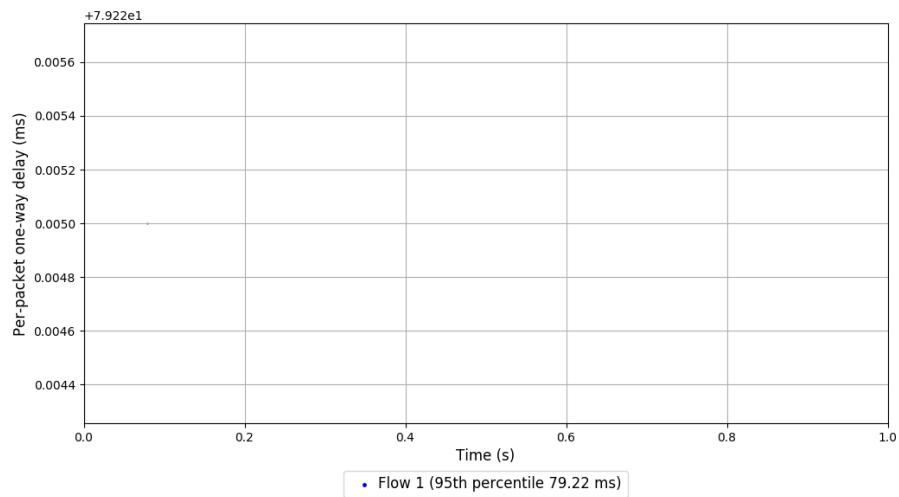
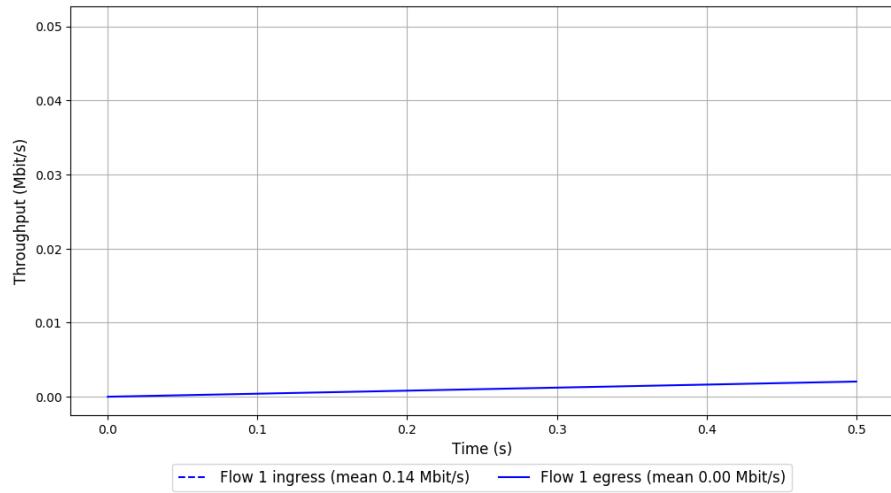
Start at: 2019-07-12 00:34:04

End at: 2019-07-12 00:34:34

Local clock offset: -1.707 ms

Remote clock offset: -5.079 ms

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

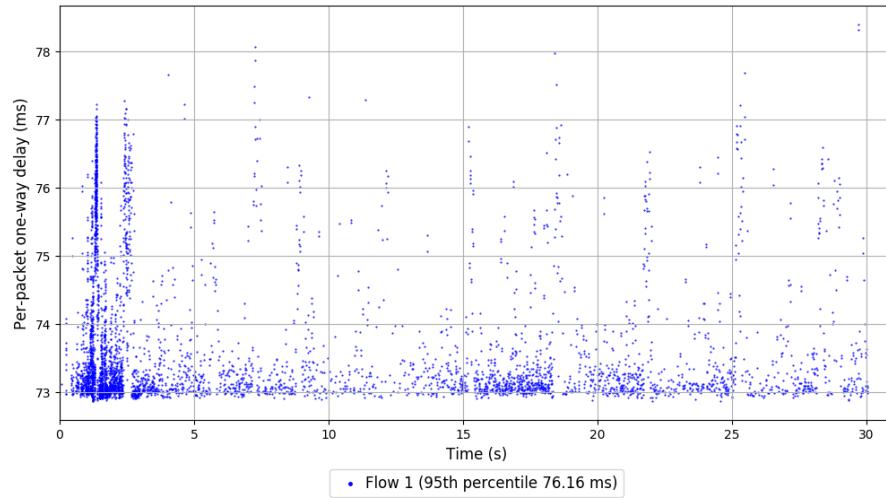
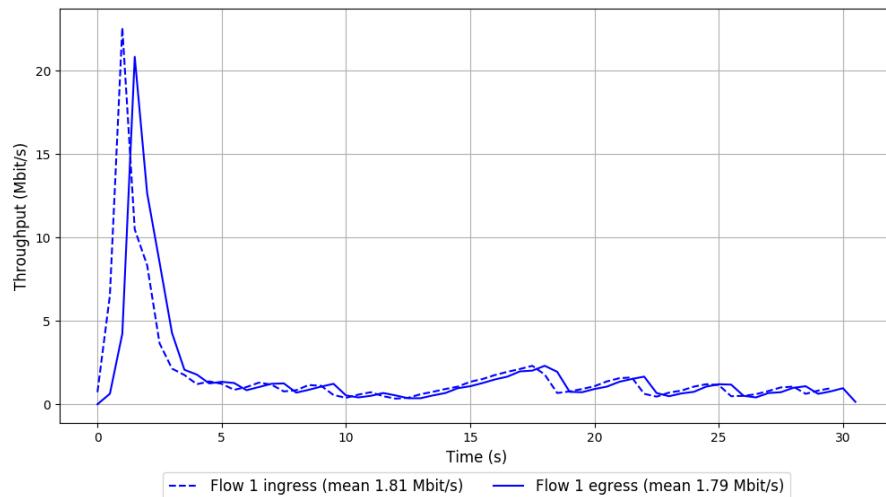


Run 1: Statistics of TCP Vegas

```
Start at: 2019-07-11 23:02:36
End at: 2019-07-11 23:03:06
Local clock offset: -0.655 ms
Remote clock offset: -8.016 ms

# Below is generated by plot.py at 2019-07-12 01:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 76.164 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 76.164 ms
Loss rate: 1.37%
```

Run 1: Report of TCP Vegas — Data Link

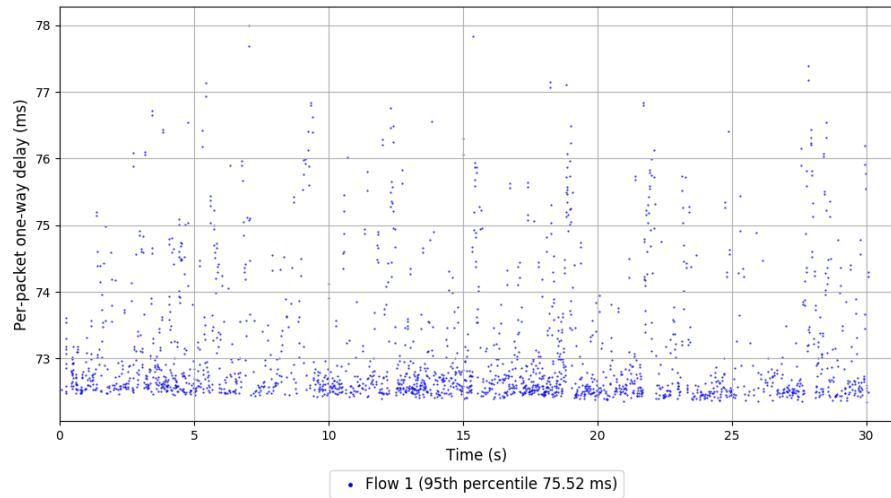
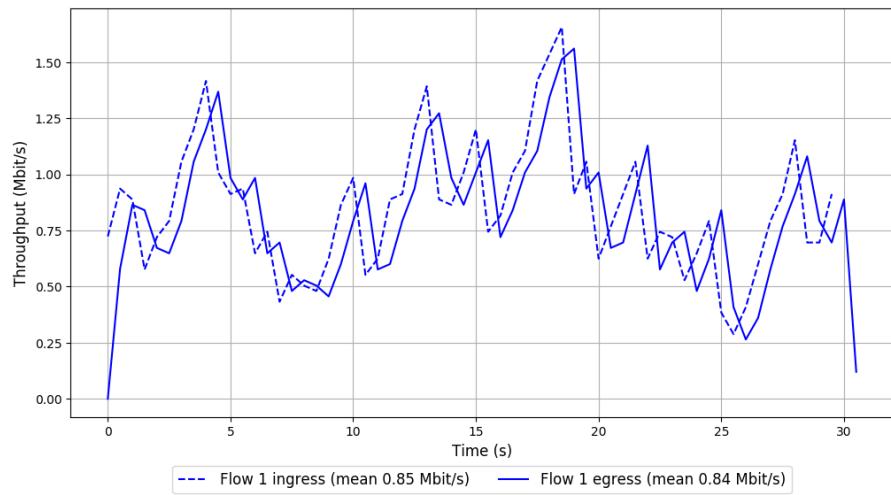


Run 2: Statistics of TCP Vegas

```
Start at: 2019-07-11 23:30:26
End at: 2019-07-11 23:30:56
Local clock offset: -0.083 ms
Remote clock offset: -7.314 ms

# Below is generated by plot.py at 2019-07-12 01:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 75.523 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 75.523 ms
Loss rate: 1.65%
```

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

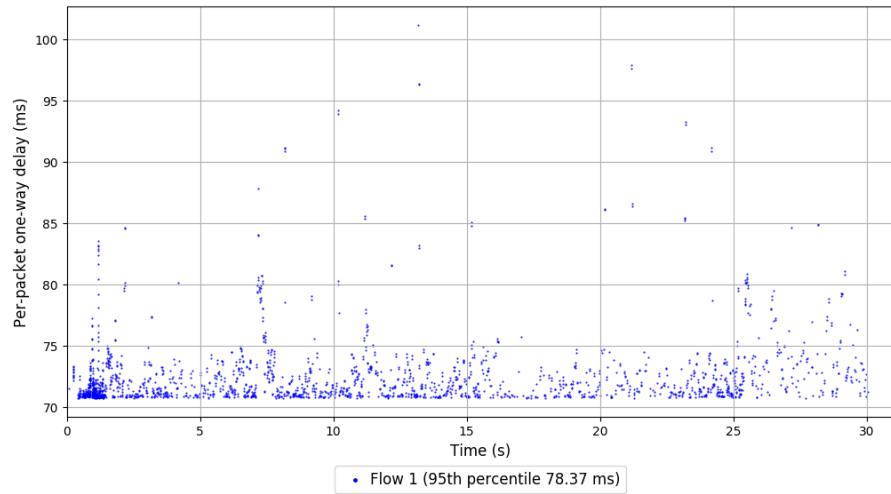
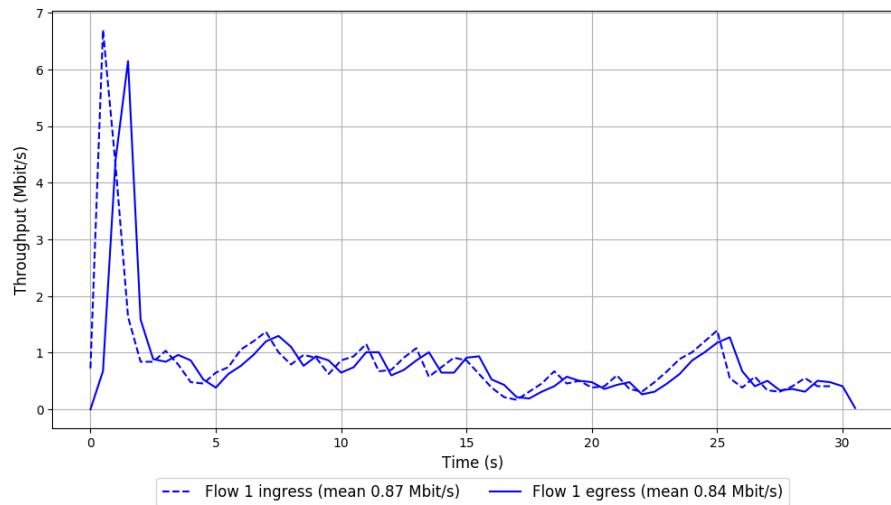


Run 3: Statistics of TCP Vegas

```
Start at: 2019-07-11 23:58:39
End at: 2019-07-11 23:59:09
Local clock offset: -2.93 ms
Remote clock offset: -8.511 ms

# Below is generated by plot.py at 2019-07-12 01:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 78.369 ms
Loss rate: 3.00%
-- Flow 1:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 78.369 ms
Loss rate: 3.00%
```

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

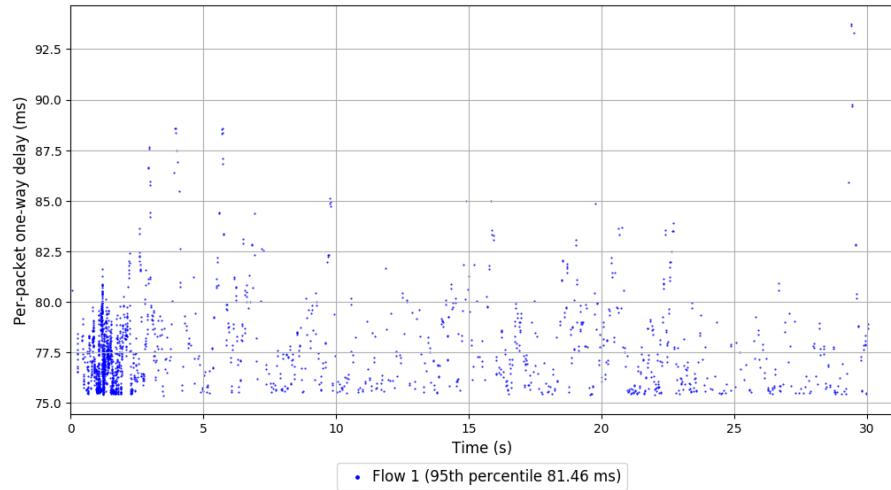
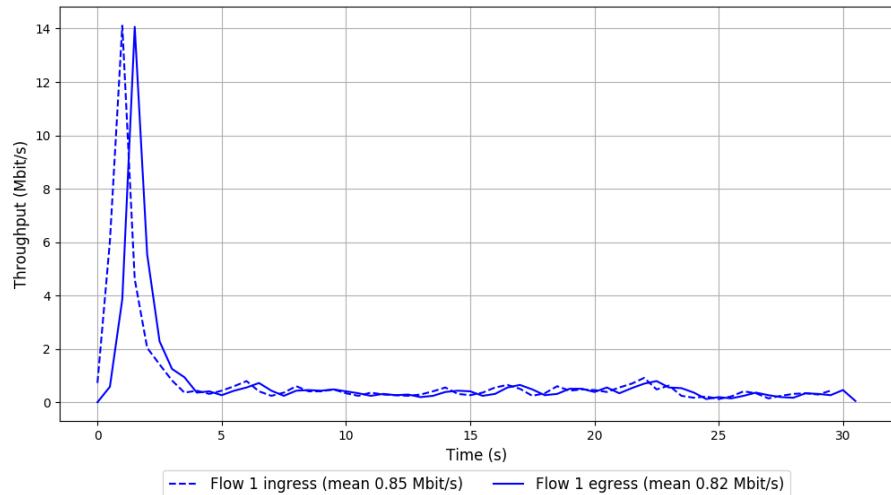


Run 4: Statistics of TCP Vegas

```
Start at: 2019-07-12 00:26:53
End at: 2019-07-12 00:27:23
Local clock offset: -2.931 ms
Remote clock offset: -4.216 ms

# Below is generated by plot.py at 2019-07-12 01:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 81.462 ms
Loss rate: 3.87%
-- Flow 1:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 81.462 ms
Loss rate: 3.87%
```

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

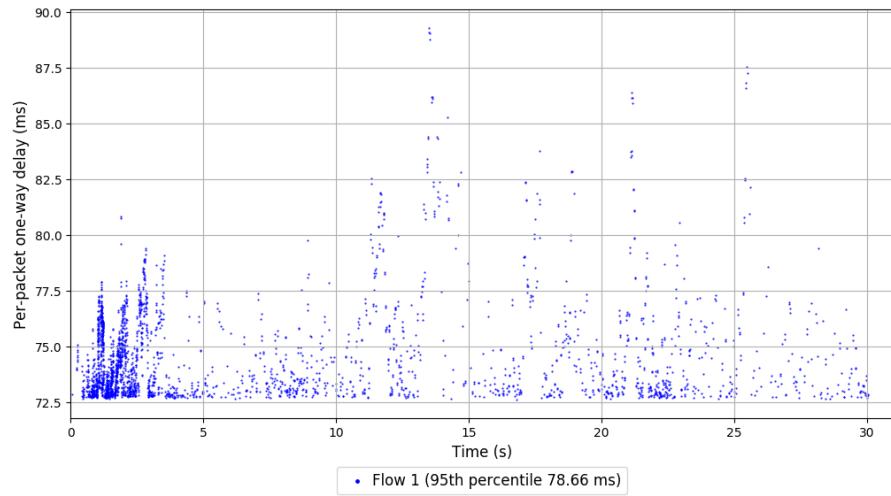
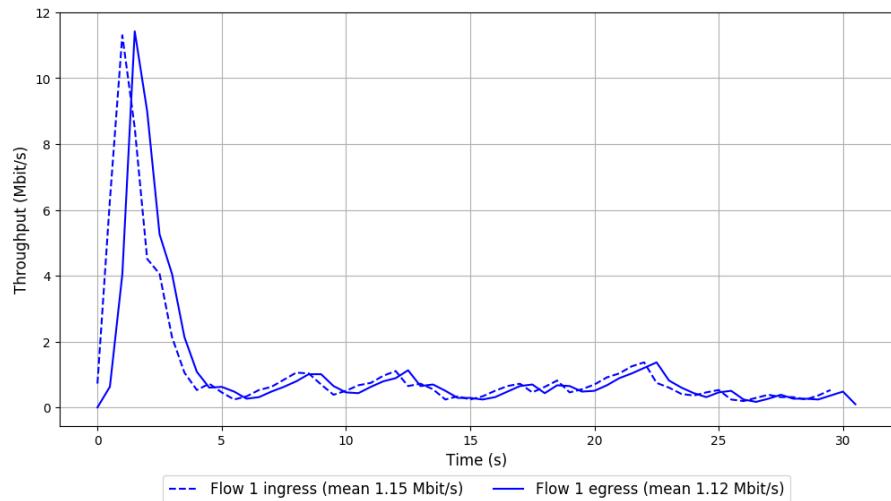


Run 5: Statistics of TCP Vegas

```
Start at: 2019-07-12 00:55:07
End at: 2019-07-12 00:55:37
Local clock offset: -2.237 ms
Remote clock offset: -6.673 ms

# Below is generated by plot.py at 2019-07-12 01:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 78.657 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 78.657 ms
Loss rate: 2.47%
```

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

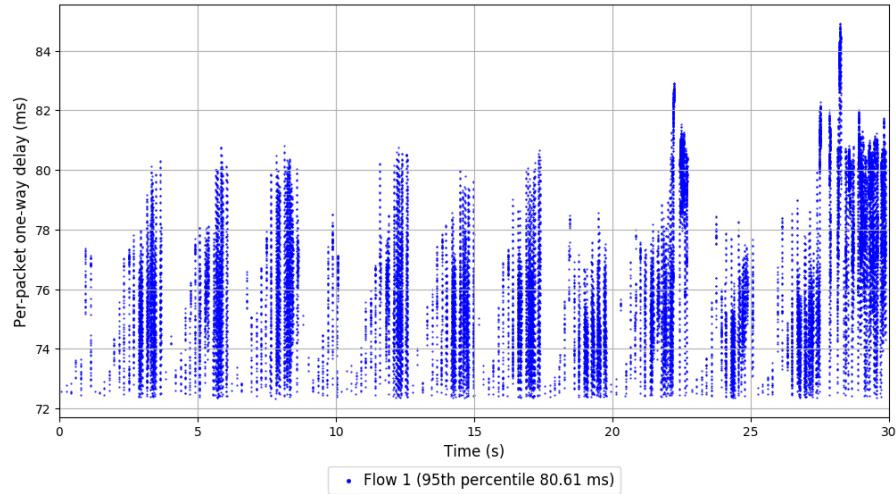
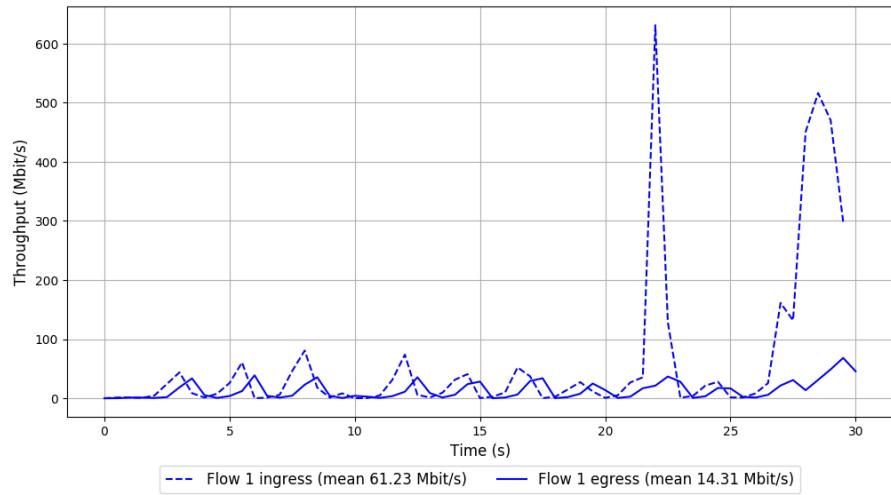


Run 1: Statistics of Verus

```
Start at: 2019-07-11 23:07:14
End at: 2019-07-11 23:07:44
Local clock offset: -1.395 ms
Remote clock offset: -8.913 ms

# Below is generated by plot.py at 2019-07-12 01:07:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.31 Mbit/s
95th percentile per-packet one-way delay: 80.610 ms
Loss rate: 76.63%
-- Flow 1:
Average throughput: 14.31 Mbit/s
95th percentile per-packet one-way delay: 80.610 ms
Loss rate: 76.63%
```

Run 1: Report of Verus — Data Link

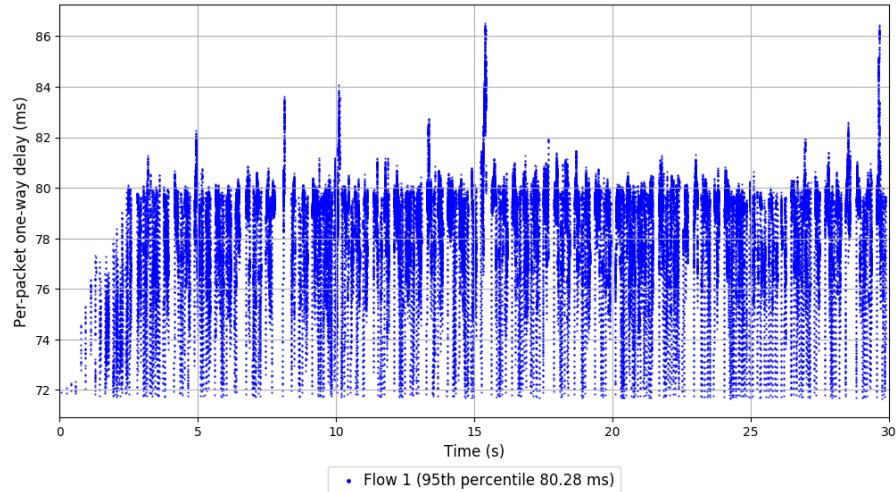
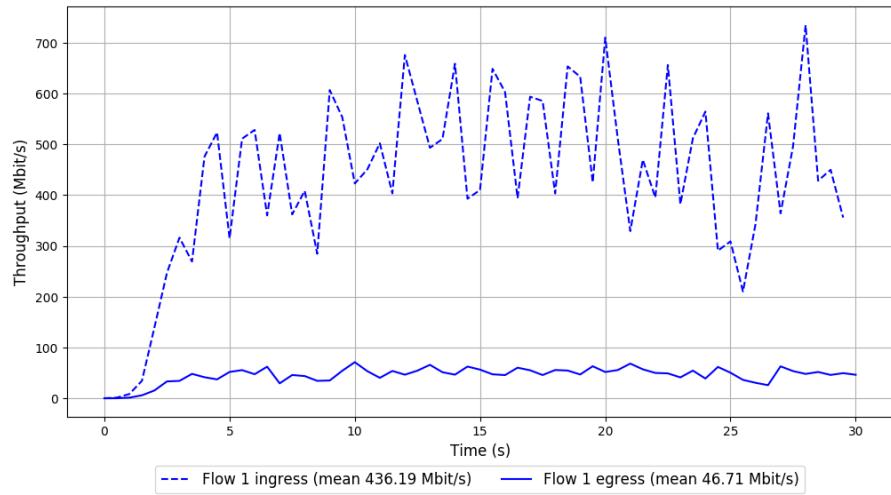


Run 2: Statistics of Verus

```
Start at: 2019-07-11 23:35:05
End at: 2019-07-11 23:35:36
Local clock offset: -1.933 ms
Remote clock offset: -9.626 ms

# Below is generated by plot.py at 2019-07-12 01:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.71 Mbit/s
95th percentile per-packet one-way delay: 80.284 ms
Loss rate: 89.29%
-- Flow 1:
Average throughput: 46.71 Mbit/s
95th percentile per-packet one-way delay: 80.284 ms
Loss rate: 89.29%
```

## Run 2: Report of Verus — Data Link

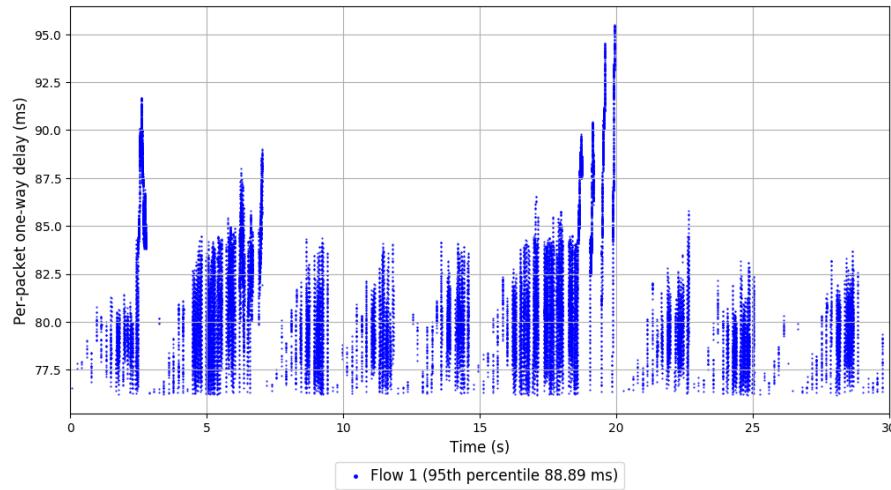
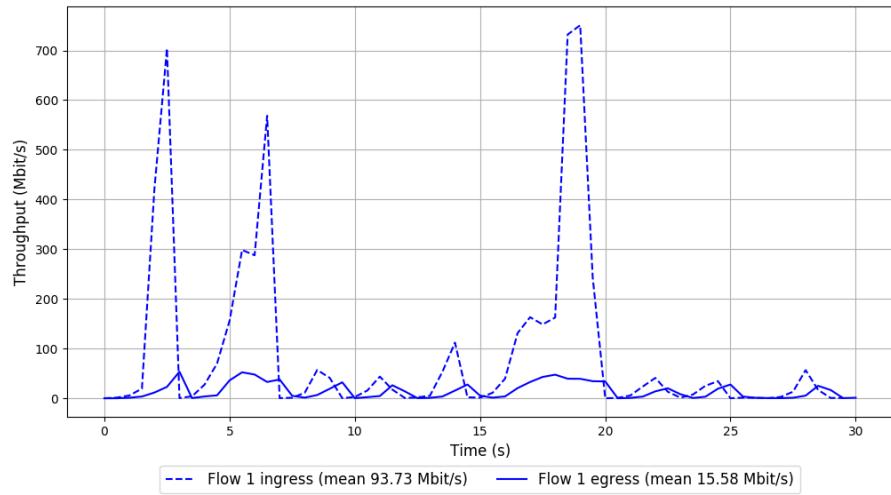


Run 3: Statistics of Verus

```
Start at: 2019-07-12 00:03:23
End at: 2019-07-12 00:03:54
Local clock offset: -2.147 ms
Remote clock offset: -5.432 ms

# Below is generated by plot.py at 2019-07-12 01:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.58 Mbit/s
95th percentile per-packet one-way delay: 88.891 ms
Loss rate: 83.38%
-- Flow 1:
Average throughput: 15.58 Mbit/s
95th percentile per-packet one-way delay: 88.891 ms
Loss rate: 83.38%
```

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

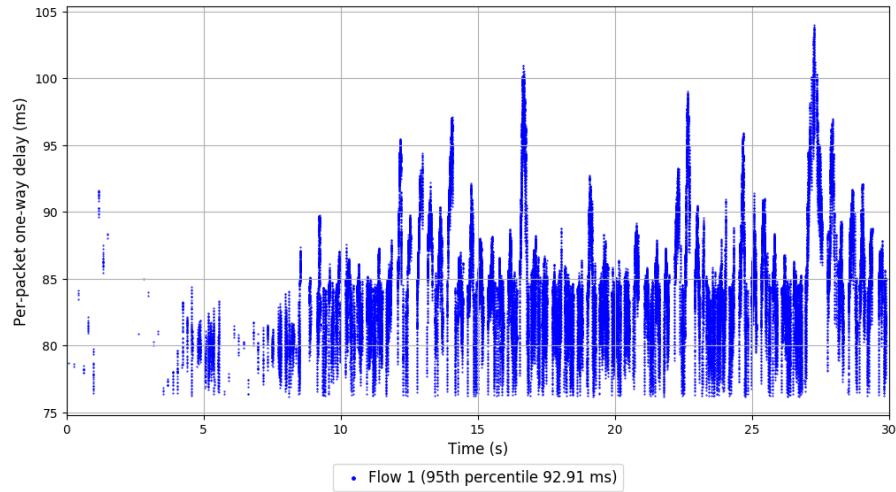
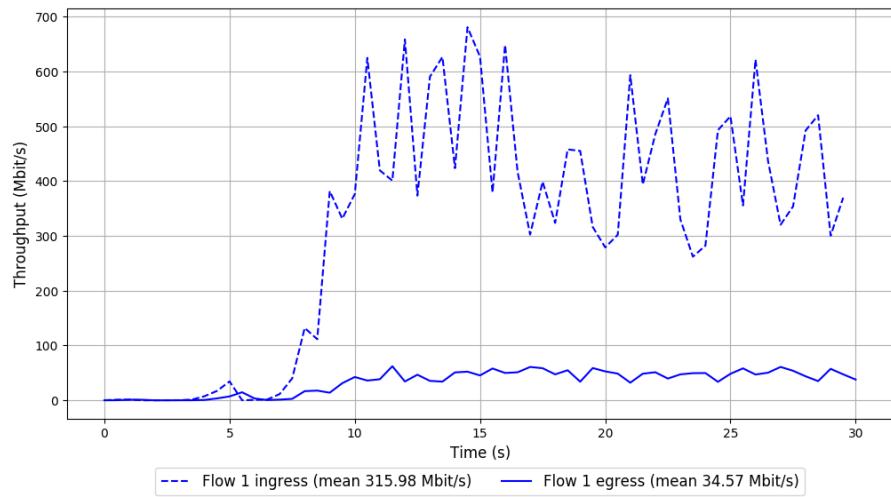


Run 4: Statistics of Verus

```
Start at: 2019-07-12 00:31:38
End at: 2019-07-12 00:32:08
Local clock offset: -2.523 ms
Remote clock offset: -3.87 ms

# Below is generated by plot.py at 2019-07-12 01:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.57 Mbit/s
95th percentile per-packet one-way delay: 92.907 ms
Loss rate: 89.06%
-- Flow 1:
Average throughput: 34.57 Mbit/s
95th percentile per-packet one-way delay: 92.907 ms
Loss rate: 89.06%
```

## Run 4: Report of Verus — Data Link

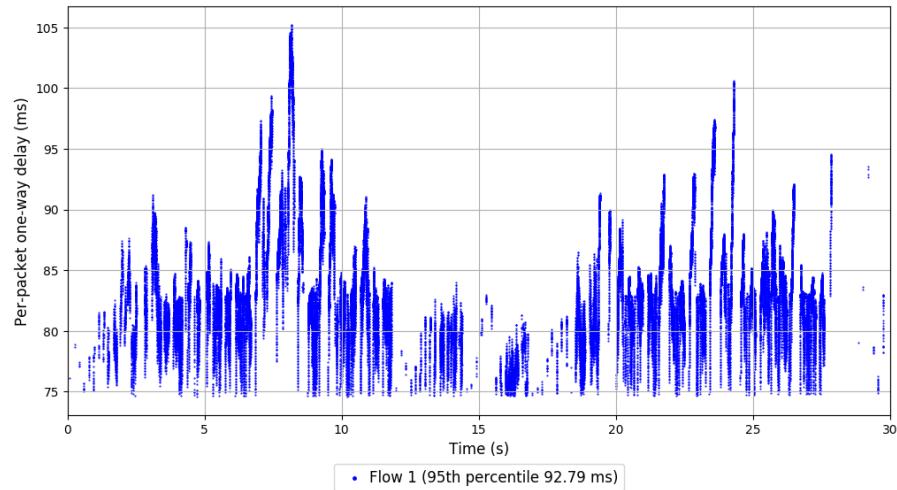
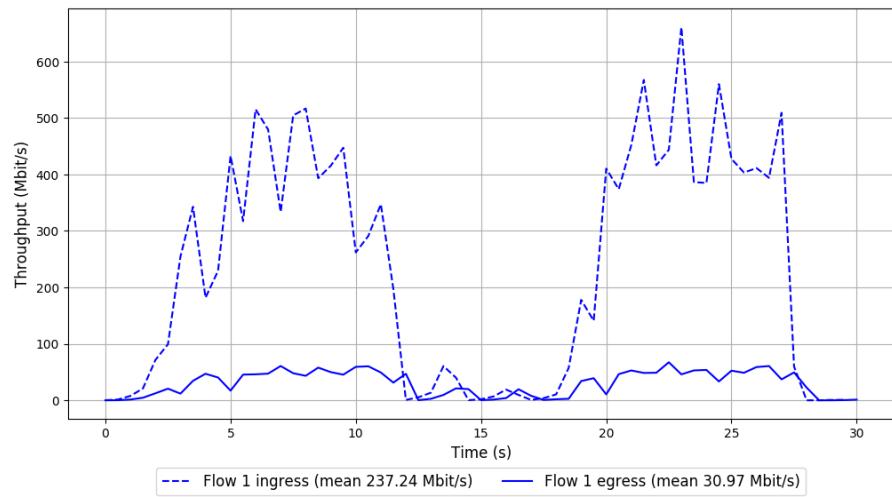


Run 5: Statistics of Verus

```
Start at: 2019-07-12 00:59:45
End at: 2019-07-12 01:00:15
Local clock offset: -1.708 ms
Remote clock offset: -3.862 ms

# Below is generated by plot.py at 2019-07-12 01:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.97 Mbit/s
95th percentile per-packet one-way delay: 92.787 ms
Loss rate: 86.94%
-- Flow 1:
Average throughput: 30.97 Mbit/s
95th percentile per-packet one-way delay: 92.787 ms
Loss rate: 86.94%
```

## Run 5: Report of Verus — Data Link

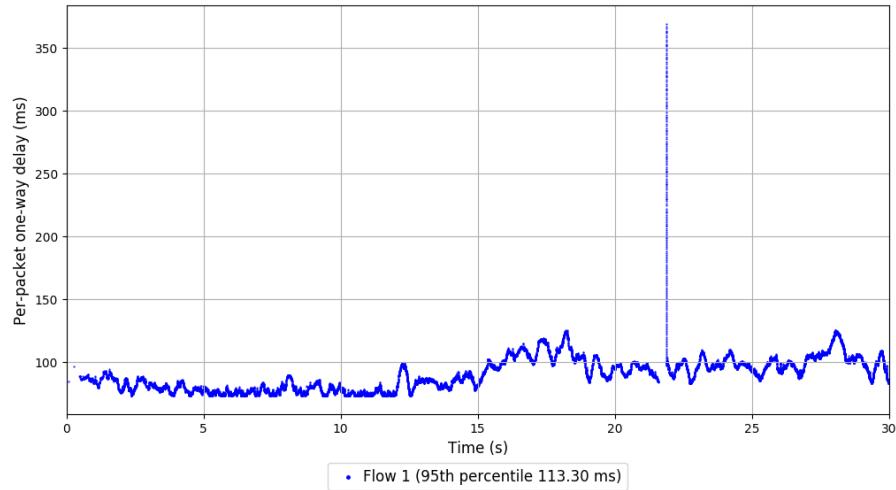
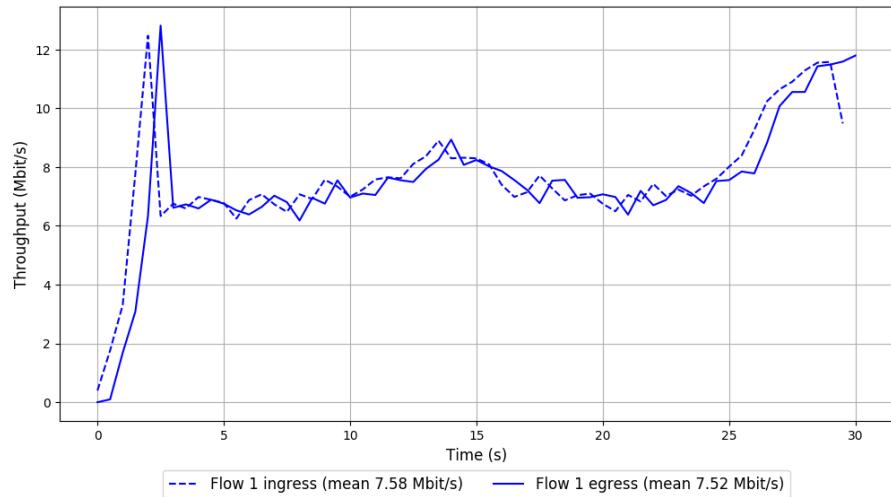


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-07-11 22:42:36
End at: 2019-07-11 22:43:06
Local clock offset: -0.858 ms
Remote clock offset: -7.91 ms

# Below is generated by plot.py at 2019-07-12 01:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.52 Mbit/s
95th percentile per-packet one-way delay: 113.296 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 7.52 Mbit/s
95th percentile per-packet one-way delay: 113.296 ms
Loss rate: 0.85%
```

Run 1: Report of PCC-Vivace — Data Link

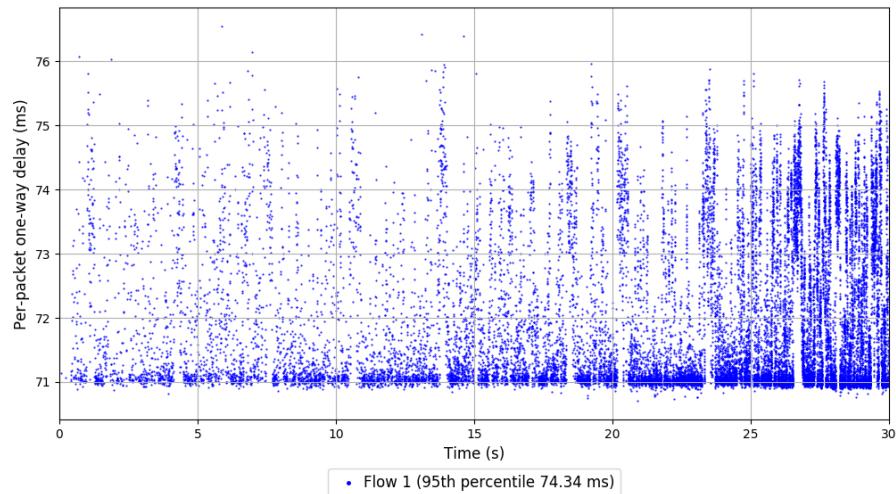
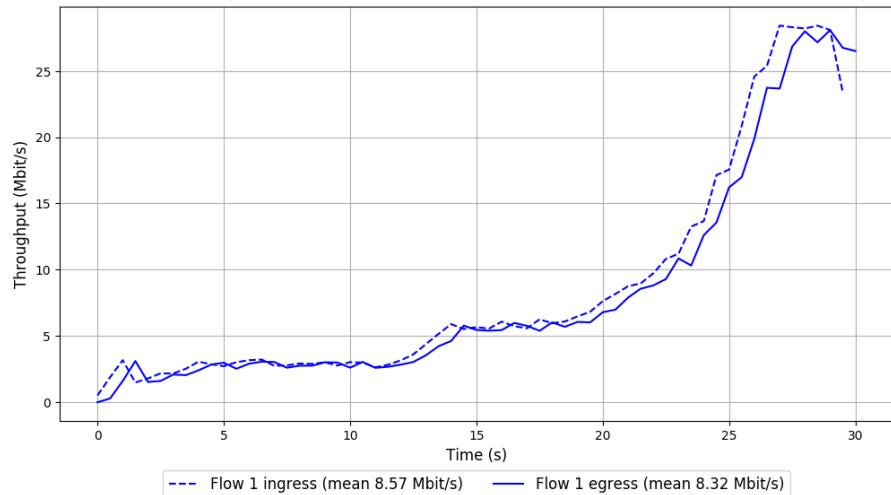


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-07-11 23:10:39
End at: 2019-07-11 23:11:09
Local clock offset: -0.668 ms
Remote clock offset: -8.683 ms

# Below is generated by plot.py at 2019-07-12 01:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.32 Mbit/s
95th percentile per-packet one-way delay: 74.336 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 8.32 Mbit/s
95th percentile per-packet one-way delay: 74.336 ms
Loss rate: 2.93%
```

Run 2: Report of PCC-Vivace — Data Link

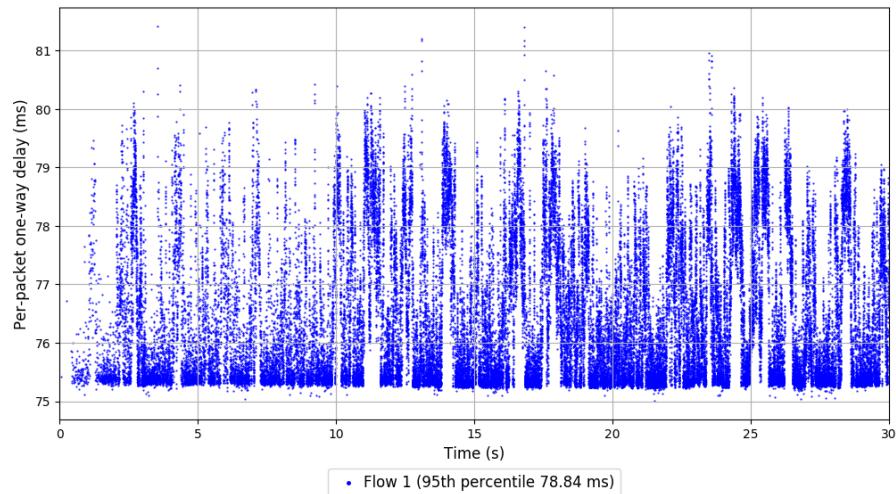
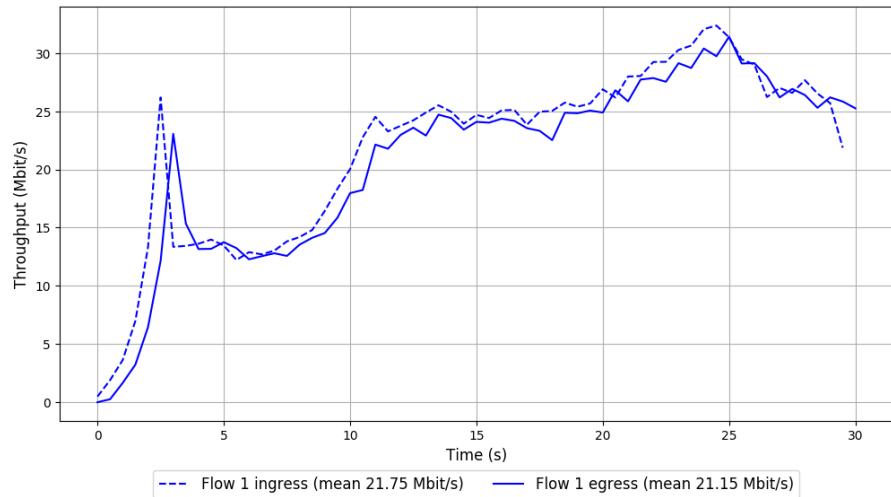


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-07-11 23:38:42
End at: 2019-07-11 23:39:12
Local clock offset: -2.414 ms
Remote clock offset: -5.427 ms

# Below is generated by plot.py at 2019-07-12 01:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.15 Mbit/s
95th percentile per-packet one-way delay: 78.836 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 21.15 Mbit/s
95th percentile per-packet one-way delay: 78.836 ms
Loss rate: 2.75%
```

Run 3: Report of PCC-Vivace — Data Link

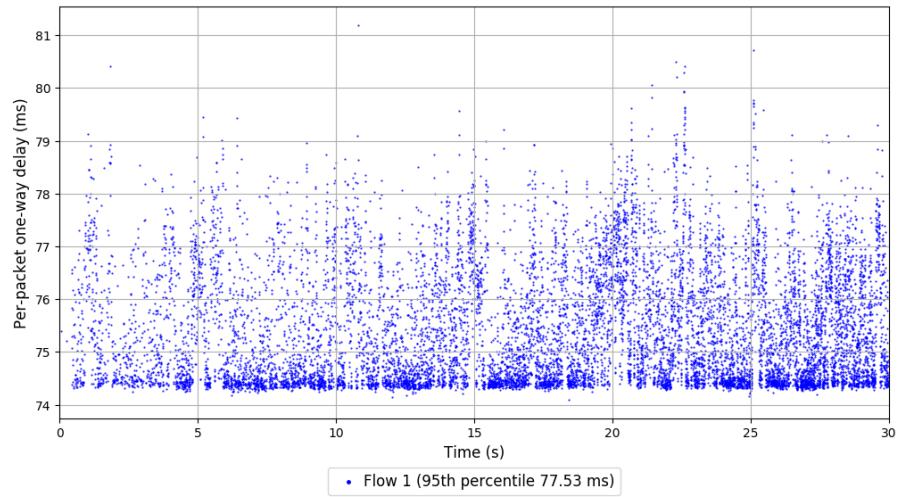
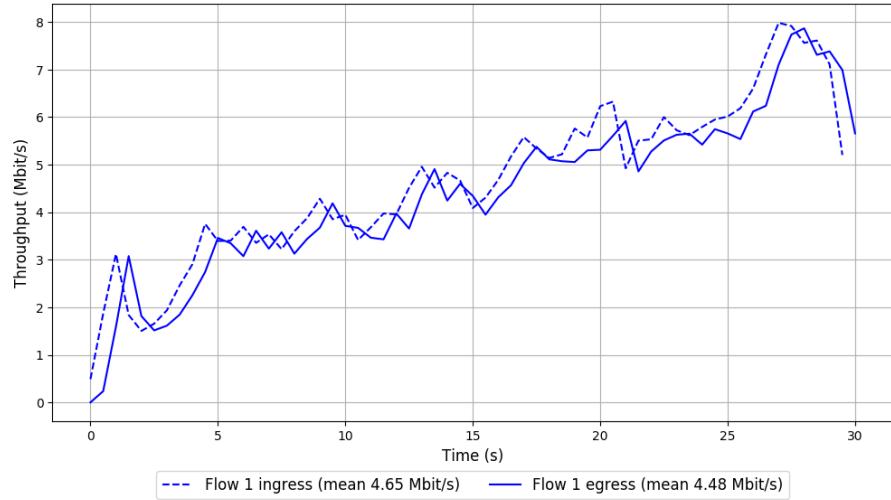


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-07-12 00:06:56
End at: 2019-07-12 00:07:26
Local clock offset: -1.924 ms
Remote clock offset: -7.133 ms

# Below is generated by plot.py at 2019-07-12 01:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 77.534 ms
Loss rate: 3.62%
-- Flow 1:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 77.534 ms
Loss rate: 3.62%
```

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

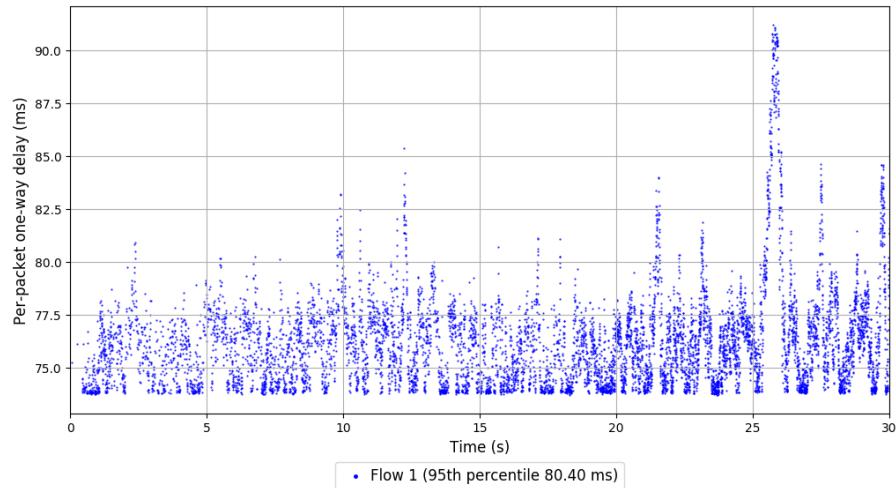
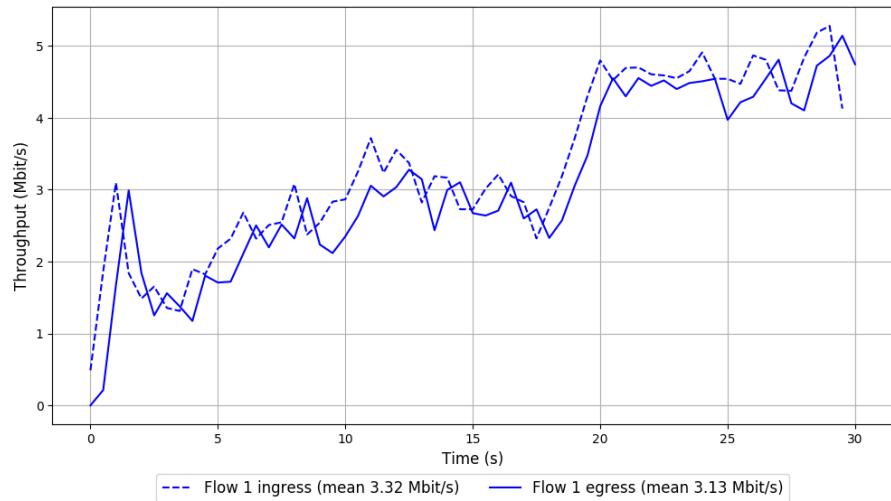


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-07-12 00:35:17
End at: 2019-07-12 00:35:47
Local clock offset: -2.362 ms
Remote clock offset: -5.484 ms

# Below is generated by plot.py at 2019-07-12 01:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 80.403 ms
Loss rate: 5.75%
-- Flow 1:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 80.403 ms
Loss rate: 5.75%
```

Run 5: Report of PCC-Vivace — Data Link

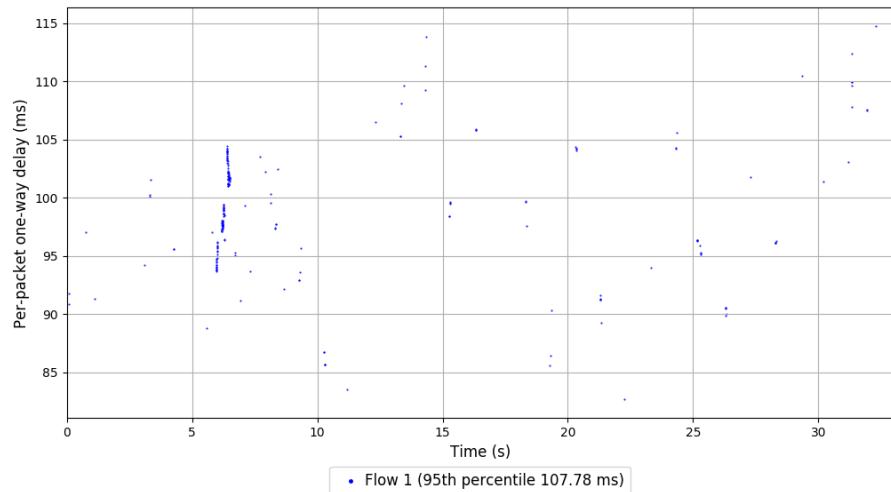
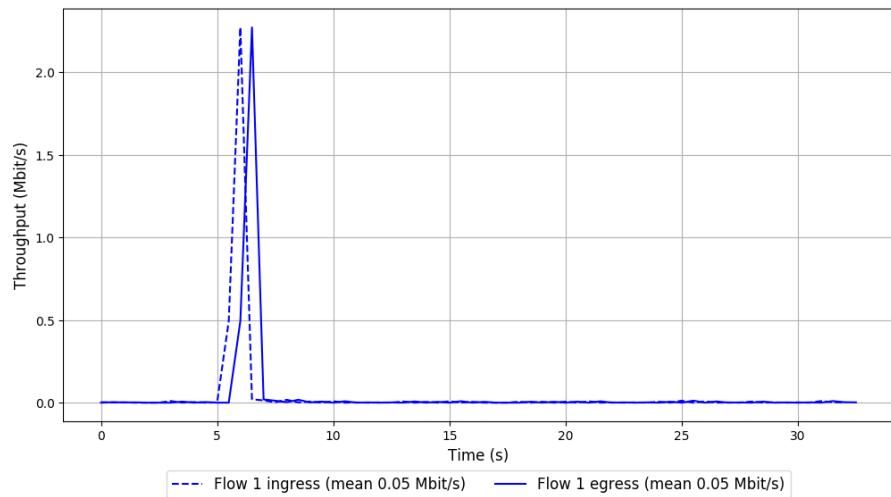


Run 1: Statistics of WebRTC media

```
Start at: 2019-07-11 22:46:15
End at: 2019-07-11 22:46:45
Local clock offset: -1.793 ms
Remote clock offset: -6.521 ms

# Below is generated by plot.py at 2019-07-12 01:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 107.782 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 107.782 ms
Loss rate: 0.22%
```

Run 1: Report of WebRTC media — Data Link

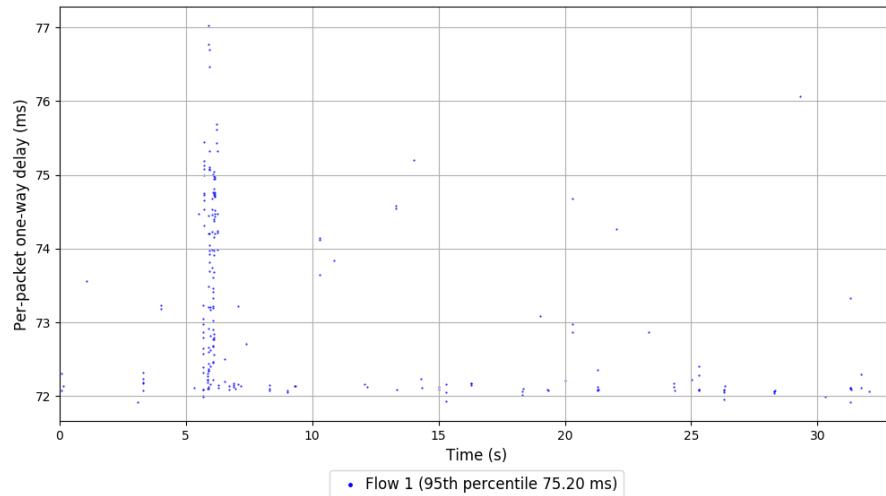
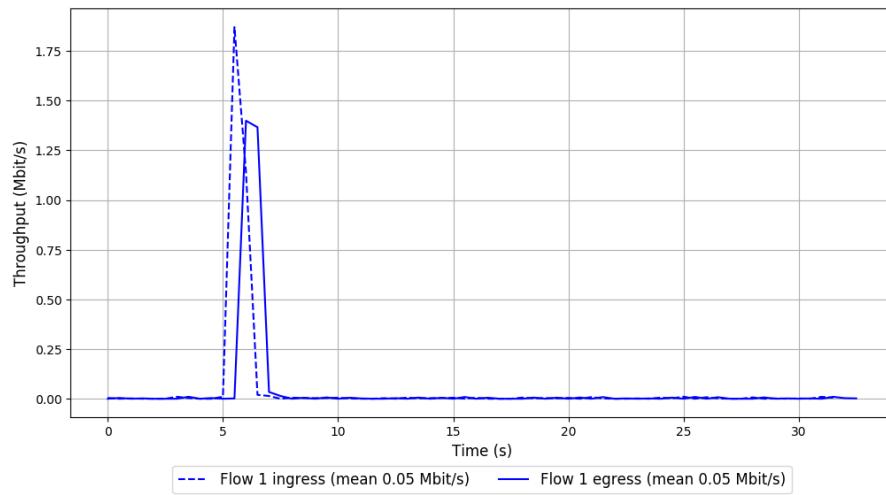


Run 2: Statistics of WebRTC media

```
Start at: 2019-07-11 23:14:08
End at: 2019-07-11 23:14:38
Local clock offset: -1.333 ms
Remote clock offset: -9.263 ms

# Below is generated by plot.py at 2019-07-12 01:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 75.197 ms
Loss rate: 7.75%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 75.197 ms
Loss rate: 7.75%
```

## Run 2: Report of WebRTC media — Data Link

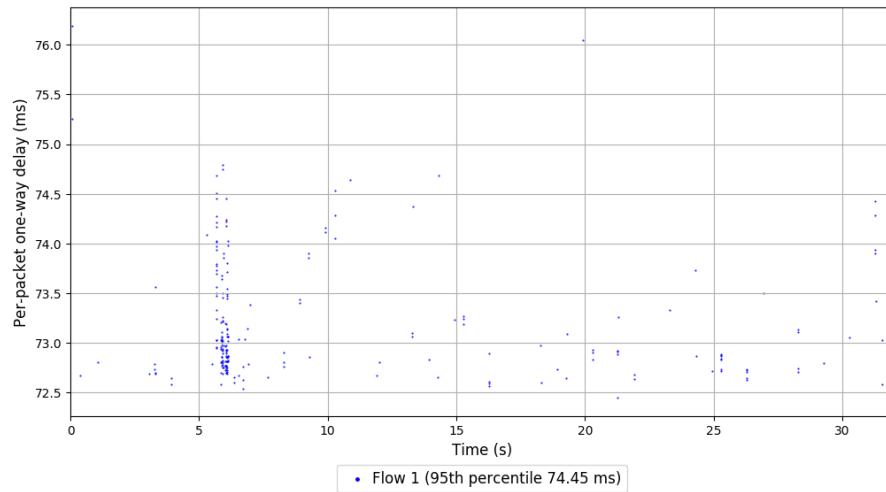
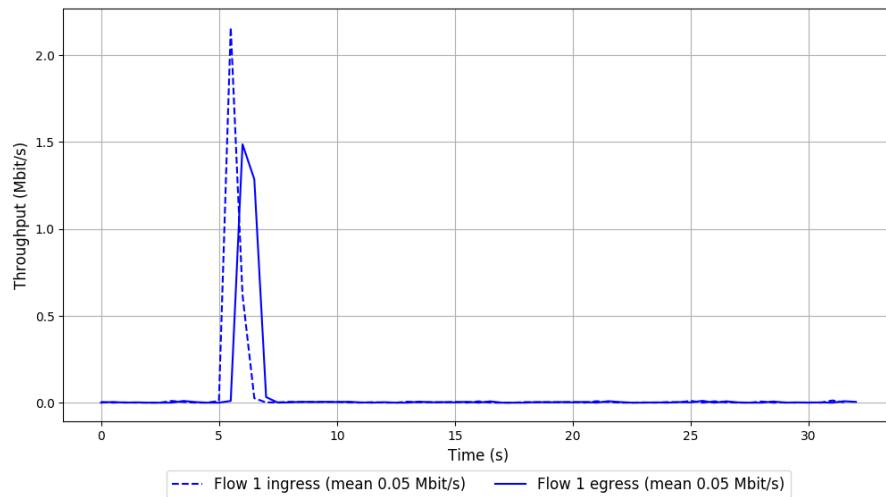


```
Run 3: Statistics of WebRTC media

Start at: 2019-07-11 23:42:12
End at: 2019-07-11 23:42:42
Local clock offset: -1.58 ms
Remote clock offset: -6.983 ms

# Below is generated by plot.py at 2019-07-12 01:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 74.451 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 74.451 ms
Loss rate: 0.10%
```

Run 3: Report of WebRTC media — Data Link

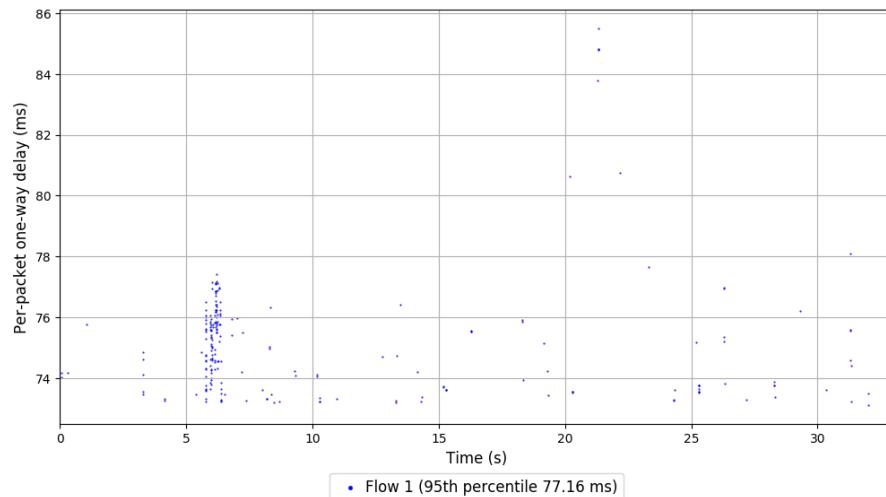
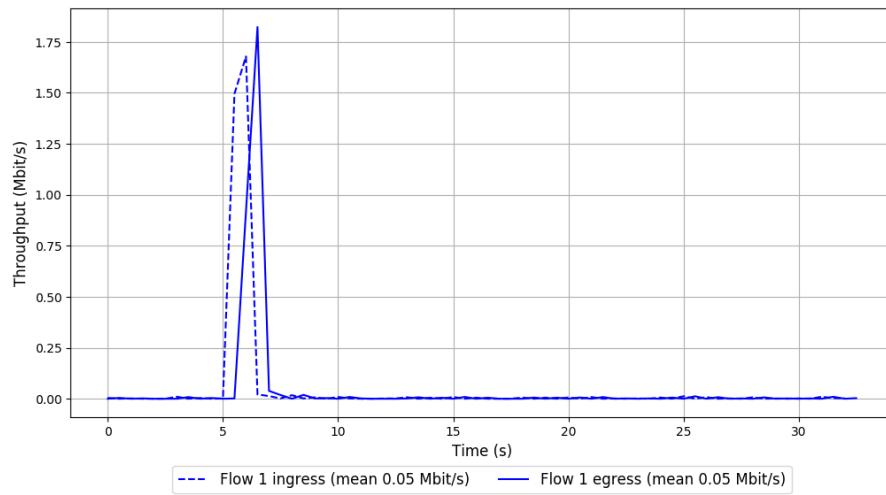


Run 4: Statistics of WebRTC media

```
Start at: 2019-07-12 00:10:30
End at: 2019-07-12 00:11:00
Local clock offset: -2.771 ms
Remote clock offset: -7.196 ms

# Below is generated by plot.py at 2019-07-12 01:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 77.164 ms
Loss rate: 12.39%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 77.164 ms
Loss rate: 12.39%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-07-12 00:38:44
End at: 2019-07-12 00:39:14
Local clock offset: -1.67 ms
Remote clock offset: -4.478 ms

# Below is generated by plot.py at 2019-07-12 01:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 76.902 ms
Loss rate: 7.38%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 76.902 ms
Loss rate: 7.38%
```

Run 5: Report of WebRTC media — Data Link

