

## Pantheon Report

Generated at 2019-06-27 04:36:17 (UTC).  
Data path: AWS Brazil 2 on `ens5` (*local*) → Colombia on `p4p1` (*remote*).  
Repeated the test of 22 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.

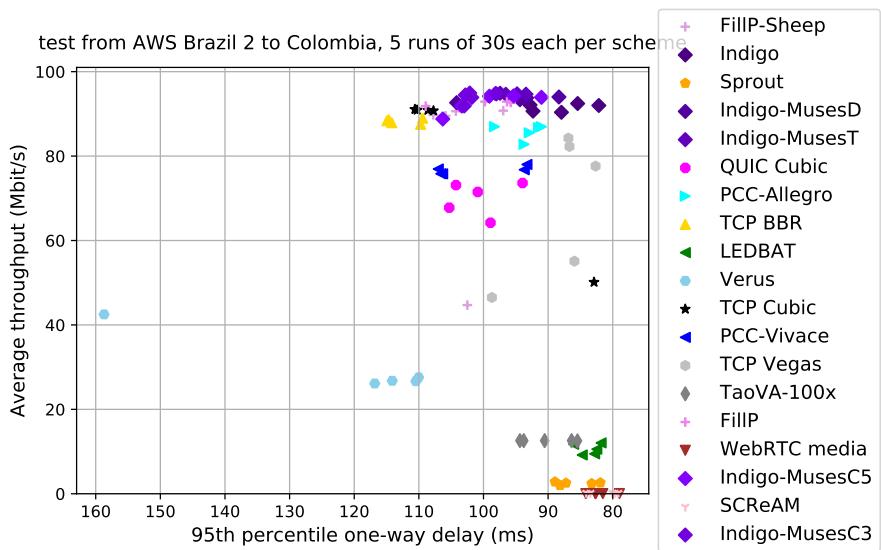
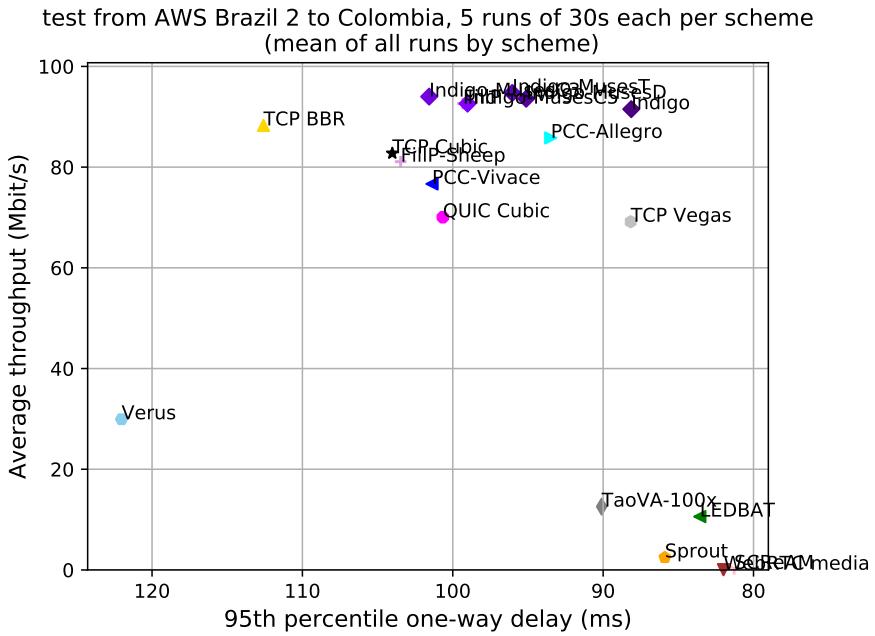
System info:

```
Linux 4.15.0-1039-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
third_party/fillp @ 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 @ 11c9498ecb1596b02ccd896791a02d03172af7ed
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



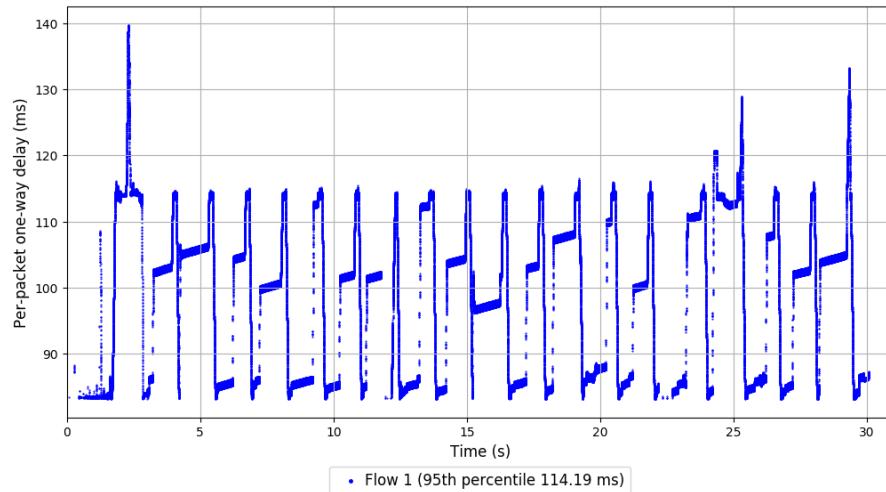
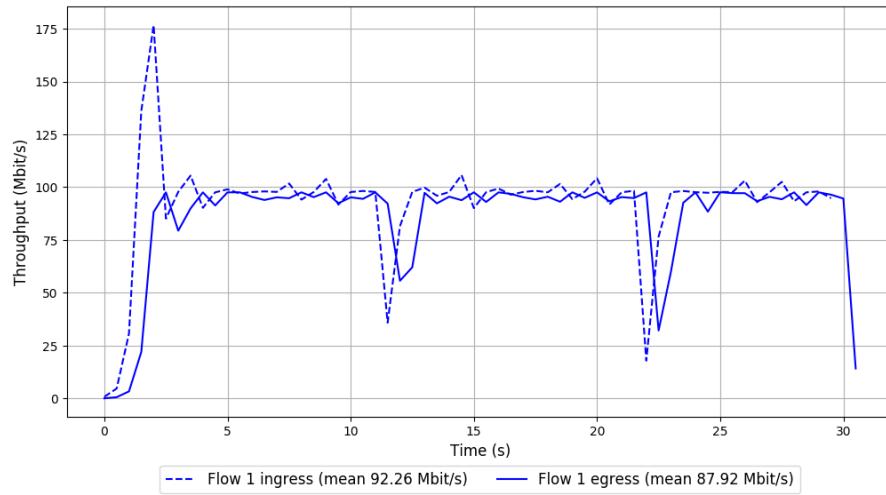
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	88.29	112.59	3.98
Copa	0	N/A	N/A	N/A
TCP Cubic	5	82.75	104.02	0.61
FillP	5	92.63	99.32	1.06
FillP-Sheep	5	81.08	103.47	1.45
Indigo	5	91.51	88.13	0.77
Indigo-MusesC3	5	94.00	101.57	0.37
Indigo-MusesC5	5	92.60	99.02	0.03
Indigo-MusesD	5	93.58	95.12	0.11
Indigo-MusesT	5	94.74	96.04	2.16
LEDBAT	5	10.60	83.57	0.00
Muses_DecisionTree	0	N/A	N/A	N/A
PCC-Allegro	5	85.80	93.48	1.49
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	70.05	100.66	0.37
SCReAM	5	0.22	81.29	0.00
Sprout	5	2.49	85.90	0.00
TaoVA-100x	5	12.58	90.10	22.37
TCP Vegas	5	69.15	88.17	0.54
Verus	5	29.93	122.03	23.27
PCC-Vivace	5	76.67	101.38	0.09
WebRTC media	5	0.05	82.00	0.01

Run 1: Statistics of TCP BBR

```
Start at: 2019-06-27 02:35:20
End at: 2019-06-27 02:35:50
Local clock offset: -3.881 ms
Remote clock offset: 20.502 ms

# Below is generated by plot.py at 2019-06-27 04:27:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.92 Mbit/s
95th percentile per-packet one-way delay: 114.194 ms
Loss rate: 4.70%
-- Flow 1:
Average throughput: 87.92 Mbit/s
95th percentile per-packet one-way delay: 114.194 ms
Loss rate: 4.70%
```

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

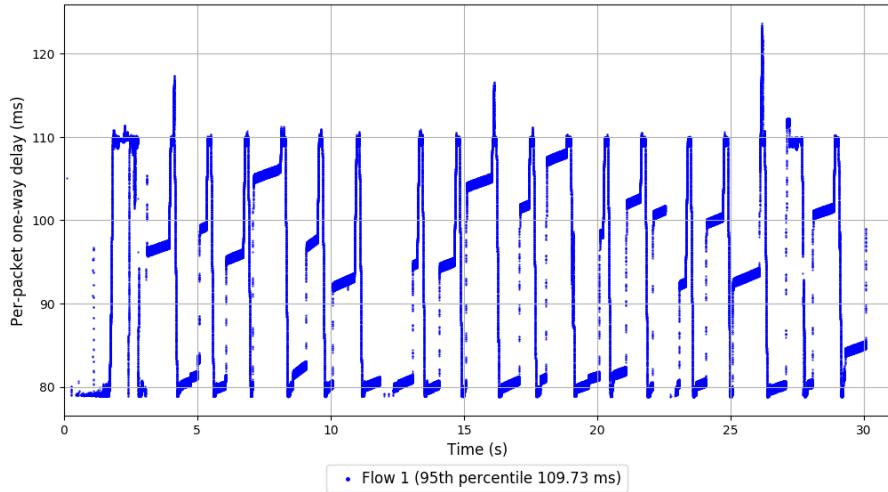
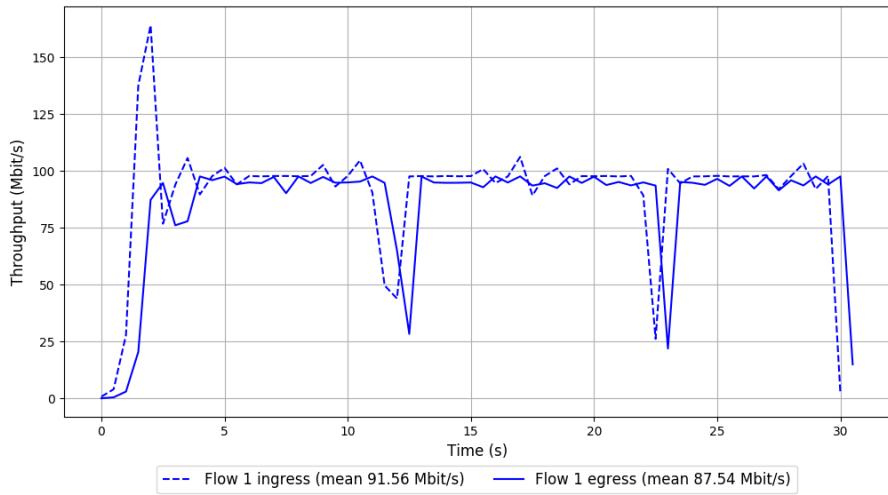


Run 2: Statistics of TCP BBR

```
Start at: 2019-06-27 03:01:07
End at: 2019-06-27 03:01:37
Local clock offset: -4.153 ms
Remote clock offset: 18.893 ms

# Below is generated by plot.py at 2019-06-27 04:27:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.54 Mbit/s
95th percentile per-packet one-way delay: 109.730 ms
Loss rate: 4.47%
-- Flow 1:
Average throughput: 87.54 Mbit/s
95th percentile per-packet one-way delay: 109.730 ms
Loss rate: 4.47%
```

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

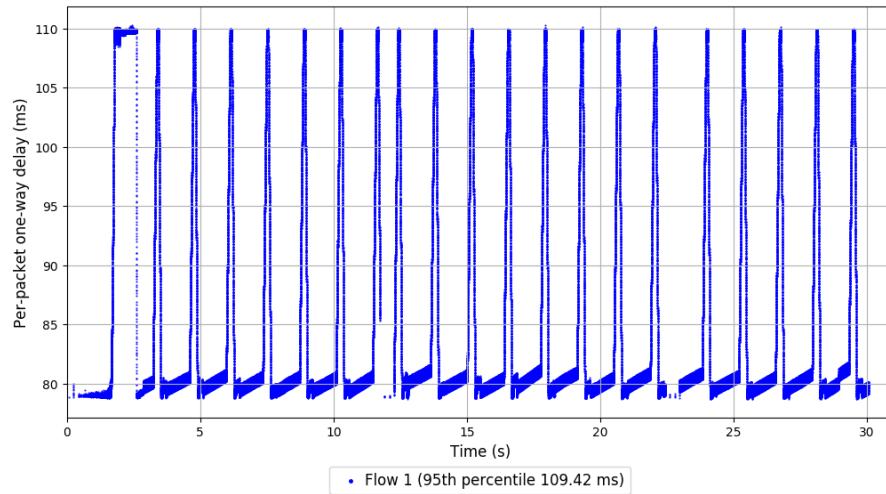
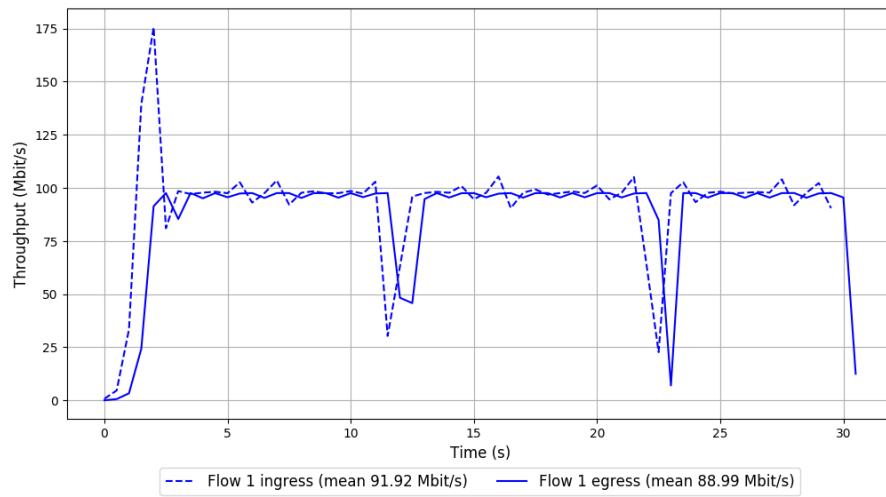


Run 3: Statistics of TCP BBR

```
Start at: 2019-06-27 03:26:53
End at: 2019-06-27 03:27:23
Local clock offset: -4.647 ms
Remote clock offset: 23.241 ms

# Below is generated by plot.py at 2019-06-27 04:27:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.99 Mbit/s
95th percentile per-packet one-way delay: 109.425 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 88.99 Mbit/s
95th percentile per-packet one-way delay: 109.425 ms
Loss rate: 3.18%
```

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

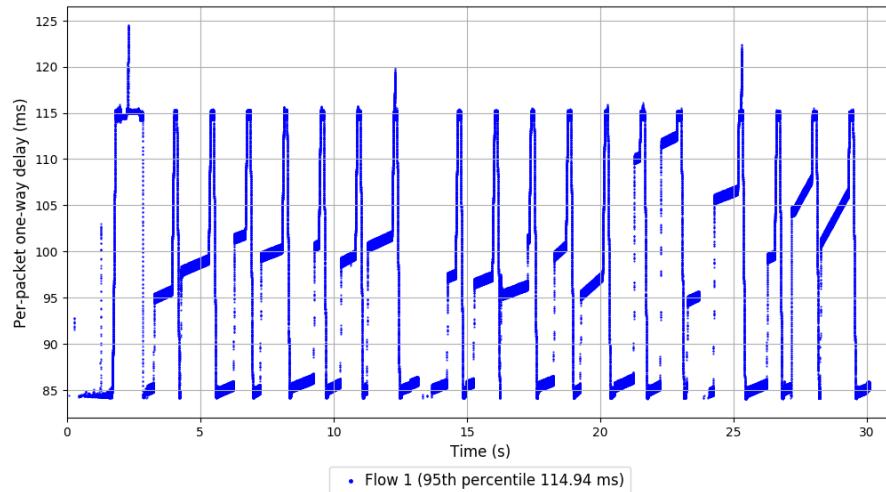
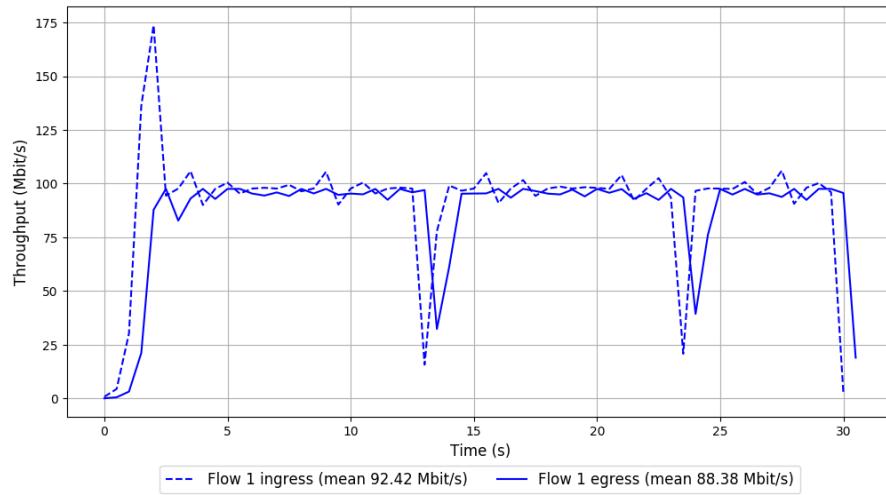


Run 4: Statistics of TCP BBR

```
Start at: 2019-06-27 03:52:40
End at: 2019-06-27 03:53:10
Local clock offset: -5.901 ms
Remote clock offset: 30.667 ms

# Below is generated by plot.py at 2019-06-27 04:27:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.38 Mbit/s
95th percentile per-packet one-way delay: 114.940 ms
Loss rate: 4.37%
-- Flow 1:
Average throughput: 88.38 Mbit/s
95th percentile per-packet one-way delay: 114.940 ms
Loss rate: 4.37%
```

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

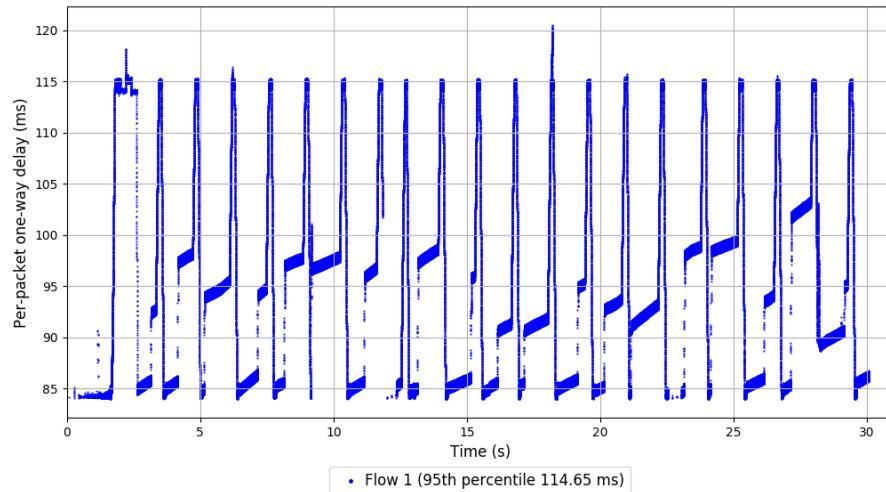
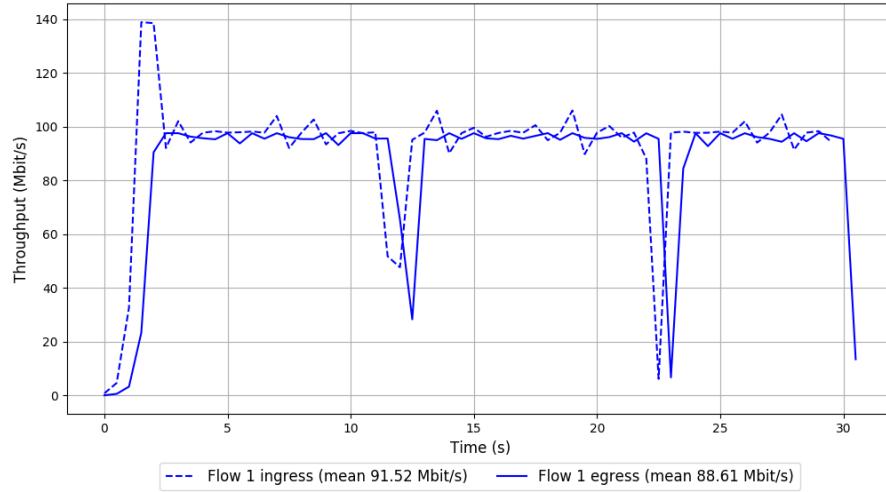


Run 5: Statistics of TCP BBR

```
Start at: 2019-06-27 04:18:24
End at: 2019-06-27 04:18:54
Local clock offset: -6.888 ms
Remote clock offset: 33.81 ms

# Below is generated by plot.py at 2019-06-27 04:27:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.61 Mbit/s
95th percentile per-packet one-way delay: 114.651 ms
Loss rate: 3.17%
-- Flow 1:
Average throughput: 88.61 Mbit/s
95th percentile per-packet one-way delay: 114.651 ms
Loss rate: 3.17%
```

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



Run 1: Statistics of Copa

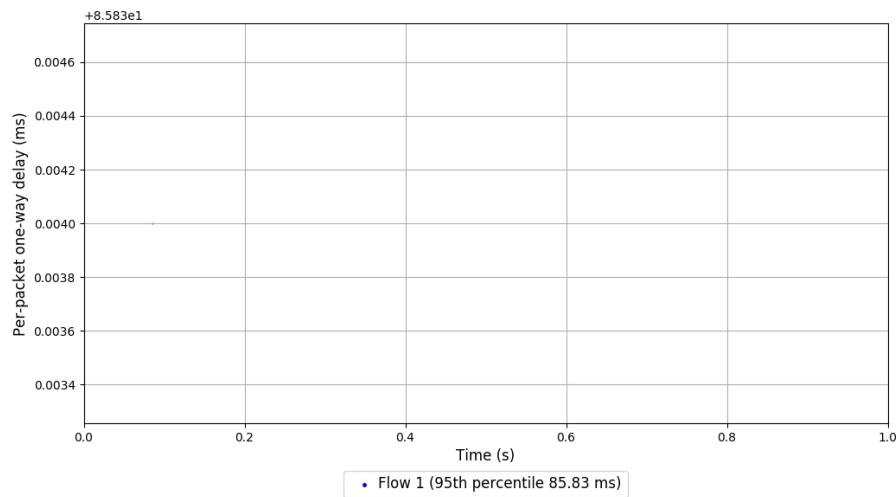
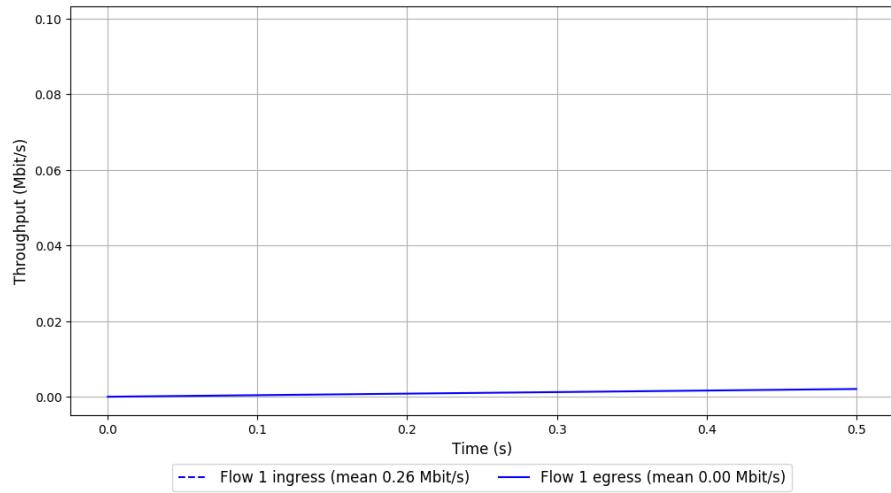
Start at: 2019-06-27 02:29:33

End at: 2019-06-27 02:30:03

Local clock offset: -2.843 ms

Remote clock offset: 20.934 ms

## Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

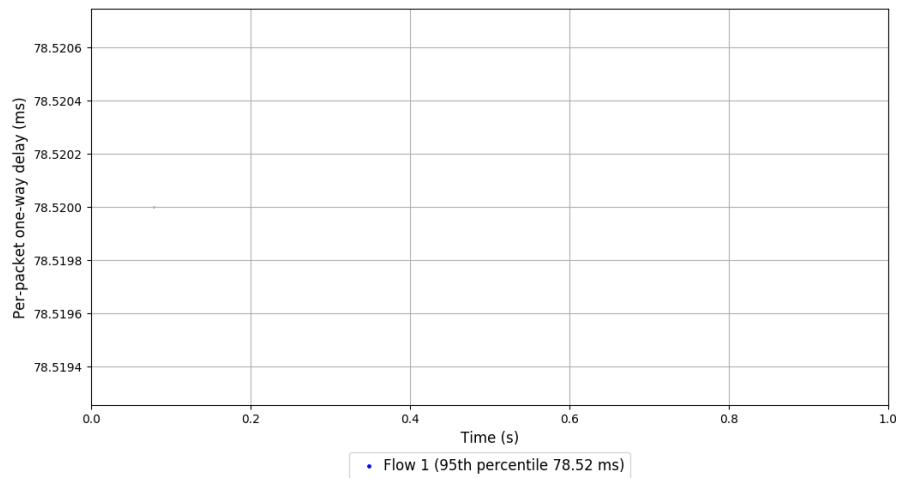
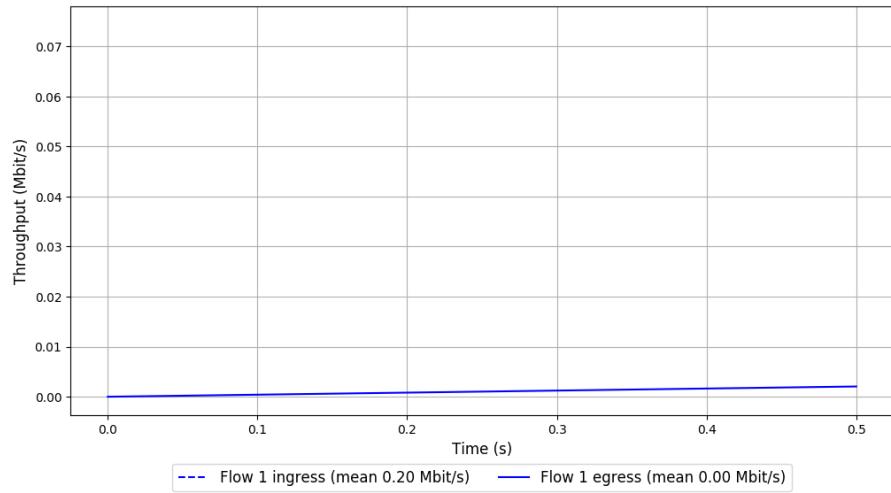
Start at: 2019-06-27 02:55:22

End at: 2019-06-27 02:55:52

Local clock offset: -4.69 ms

Remote clock offset: 18.04 ms

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

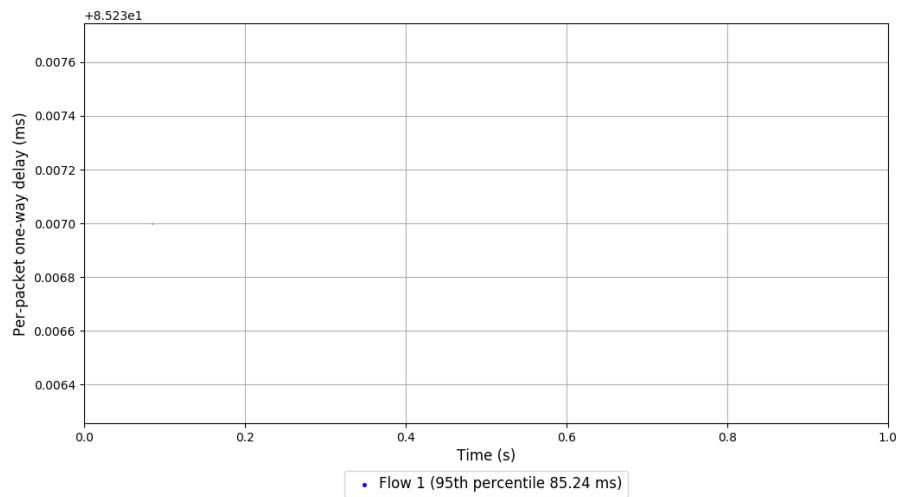
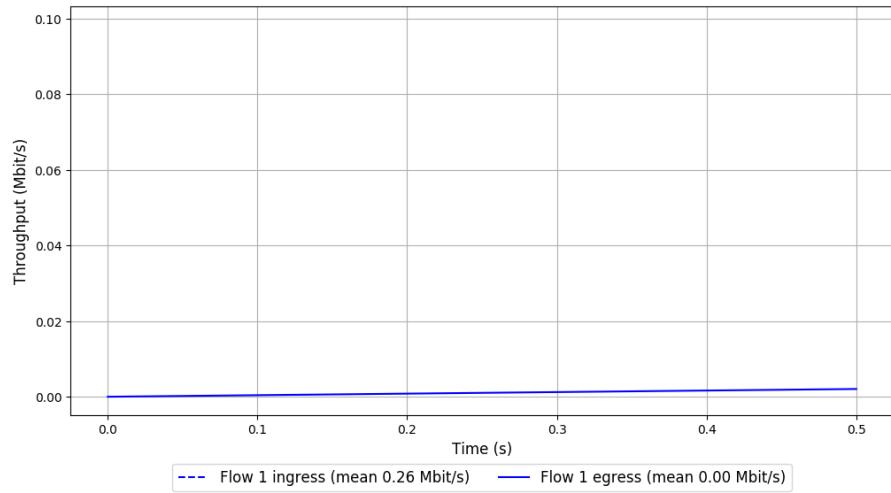
Start at: 2019-06-27 03:21:09

End at: 2019-06-27 03:21:39

Local clock offset: -4.261 ms

Remote clock offset: 27.711 ms

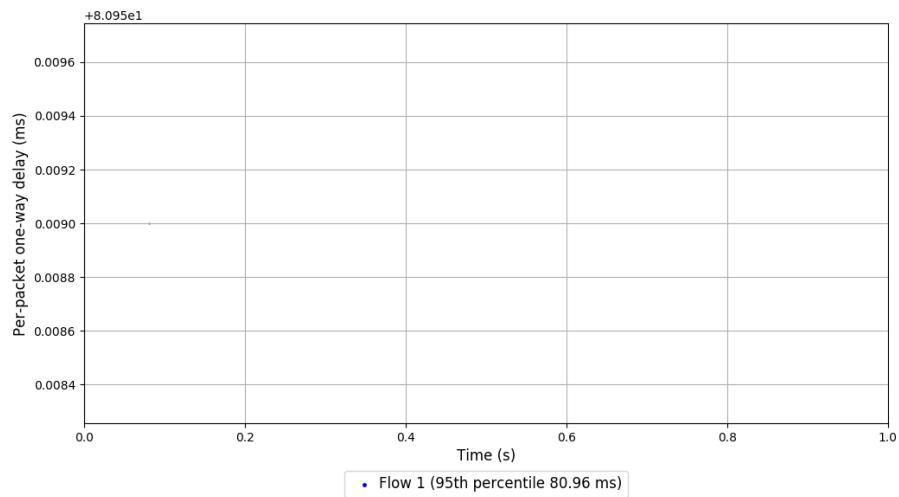
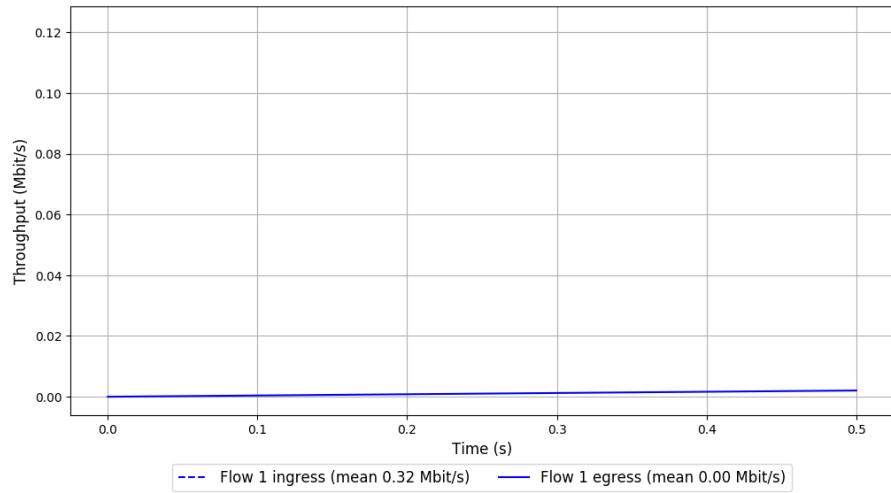
### Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-06-27 03:46:56  
End at: 2019-06-27 03:47:26  
Local clock offset: -4.461 ms  
Remote clock offset: 28.721 ms

## Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

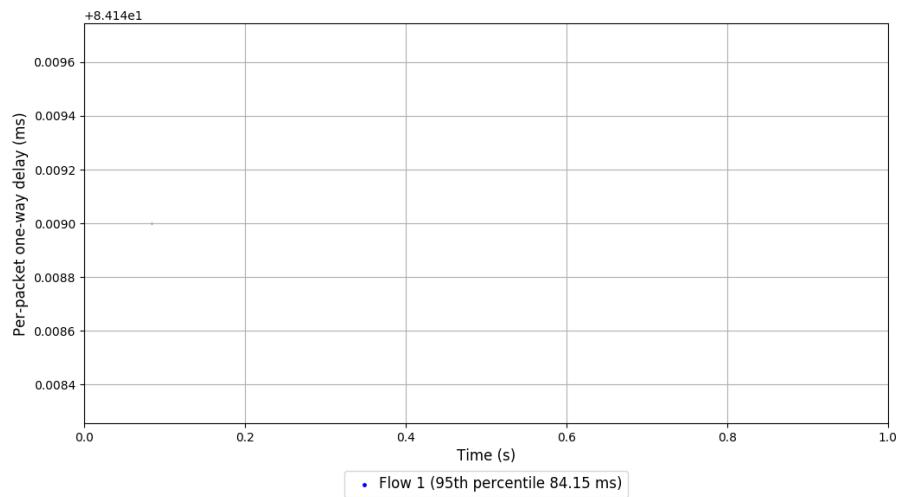
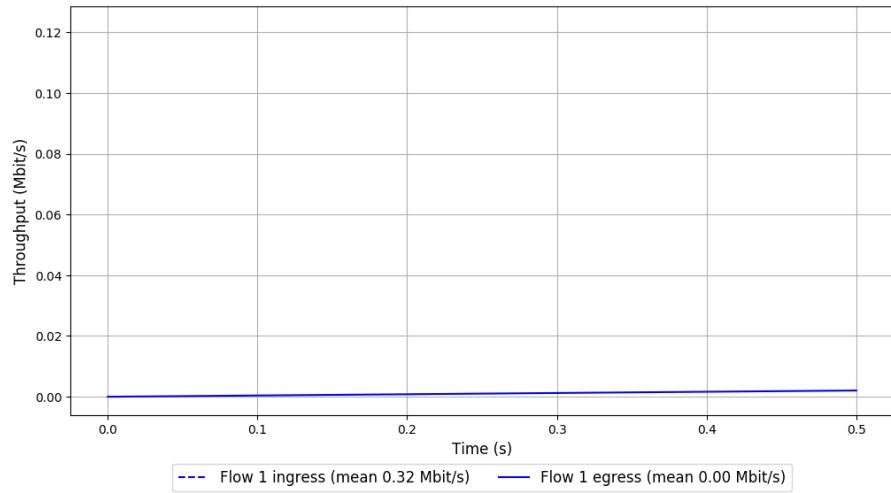
Start at: 2019-06-27 04:12:40

End at: 2019-06-27 04:13:10

Local clock offset: -6.339 ms

Remote clock offset: 34.287 ms

## Run 5: Report of Copa — Data Link

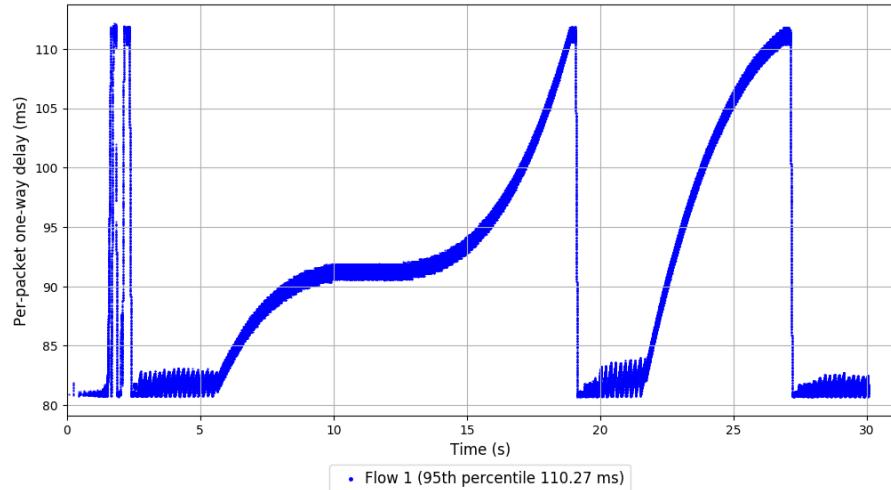
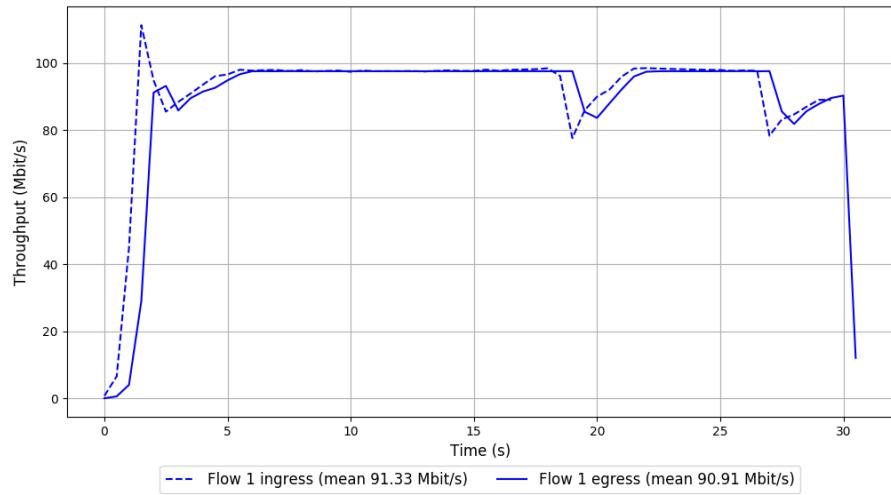


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-06-27 02:41:15
End at: 2019-06-27 02:41:45
Local clock offset: -3.576 ms
Remote clock offset: 17.362 ms

# Below is generated by plot.py at 2019-06-27 04:27:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.91 Mbit/s
95th percentile per-packet one-way delay: 110.266 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 90.91 Mbit/s
95th percentile per-packet one-way delay: 110.266 ms
Loss rate: 0.45%
```

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

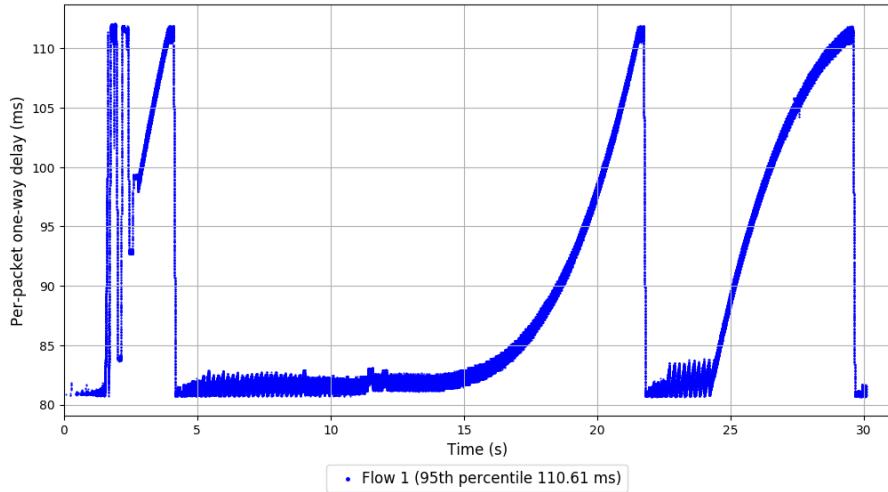
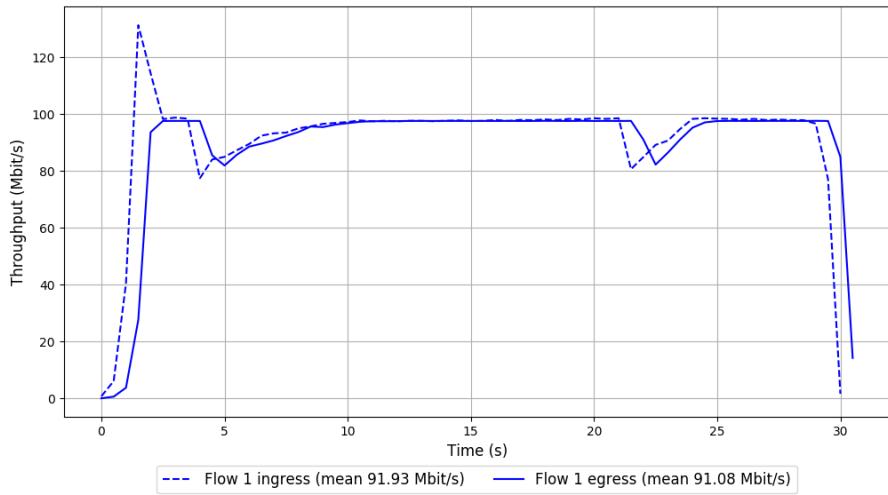


Run 2: Statistics of TCP Cubic

```
Start at: 2019-06-27 03:07:02
End at: 2019-06-27 03:07:32
Local clock offset: -4.326 ms
Remote clock offset: 19.691 ms

# Below is generated by plot.py at 2019-06-27 04:27:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.08 Mbit/s
95th percentile per-packet one-way delay: 110.614 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 91.08 Mbit/s
95th percentile per-packet one-way delay: 110.614 ms
Loss rate: 0.93%
```

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

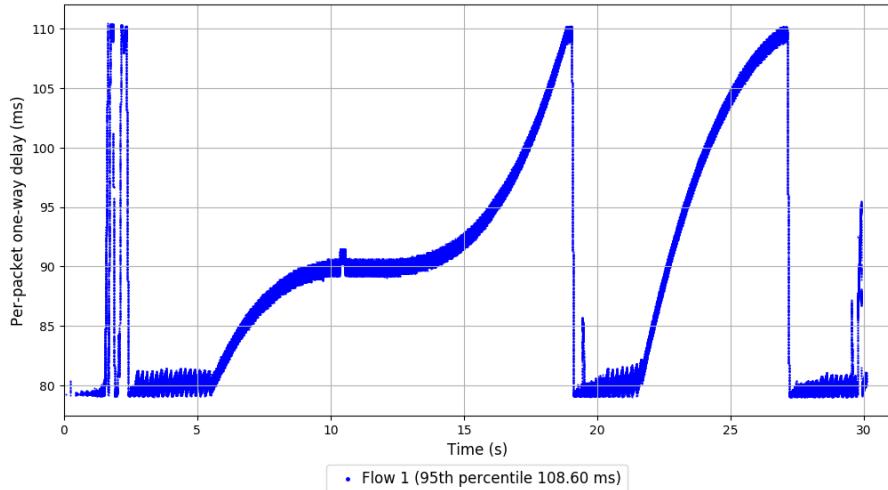
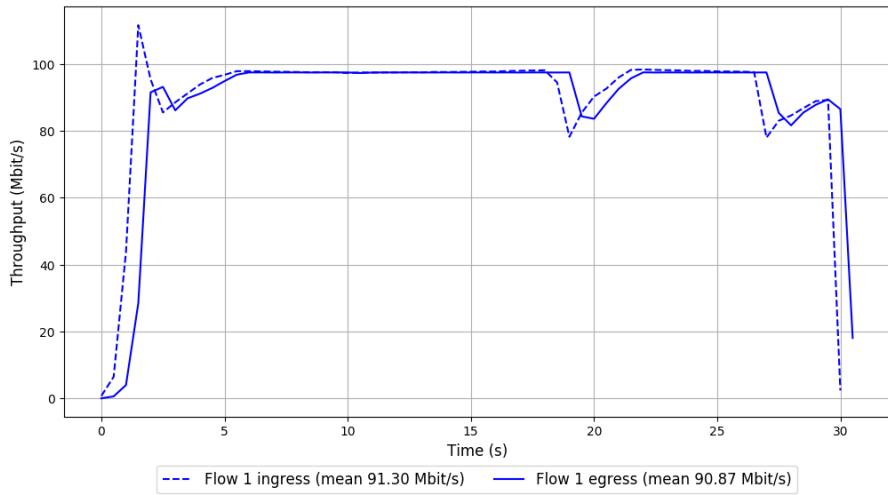


Run 3: Statistics of TCP Cubic

```
Start at: 2019-06-27 03:32:49
End at: 2019-06-27 03:33:19
Local clock offset: -4.688 ms
Remote clock offset: 22.849 ms

# Below is generated by plot.py at 2019-06-27 04:27:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.87 Mbit/s
95th percentile per-packet one-way delay: 108.598 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 90.87 Mbit/s
95th percentile per-packet one-way delay: 108.598 ms
Loss rate: 0.46%
```

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

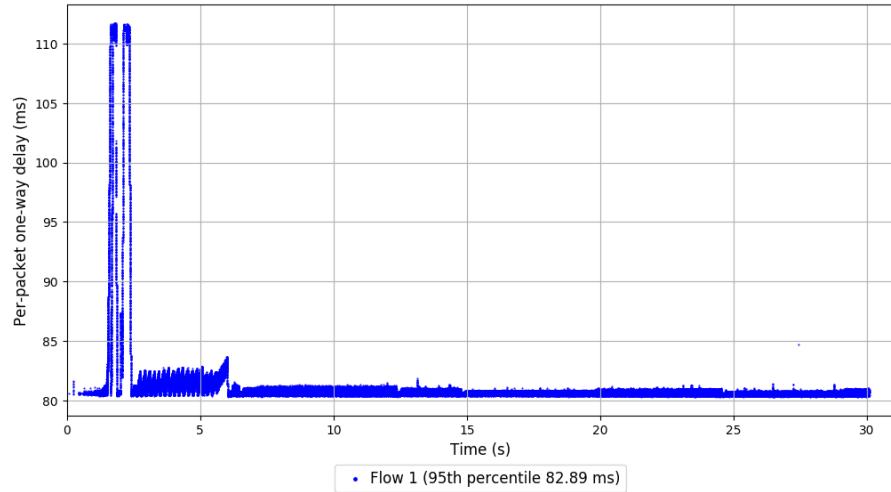
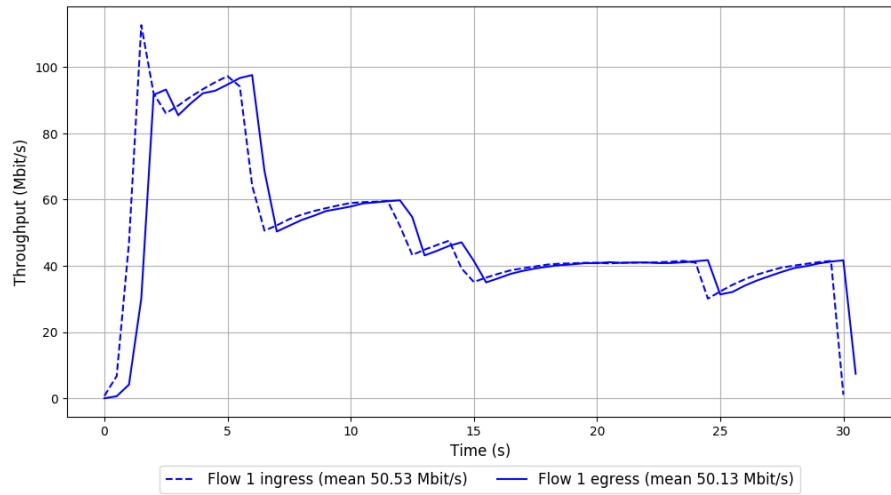


Run 4: Statistics of TCP Cubic

```
Start at: 2019-06-27 03:58:34
End at: 2019-06-27 03:59:04
Local clock offset: -6.629 ms
Remote clock offset: 27.484 ms

# Below is generated by plot.py at 2019-06-27 04:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.13 Mbit/s
95th percentile per-packet one-way delay: 82.894 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 50.13 Mbit/s
95th percentile per-packet one-way delay: 82.894 ms
Loss rate: 0.80%
```

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

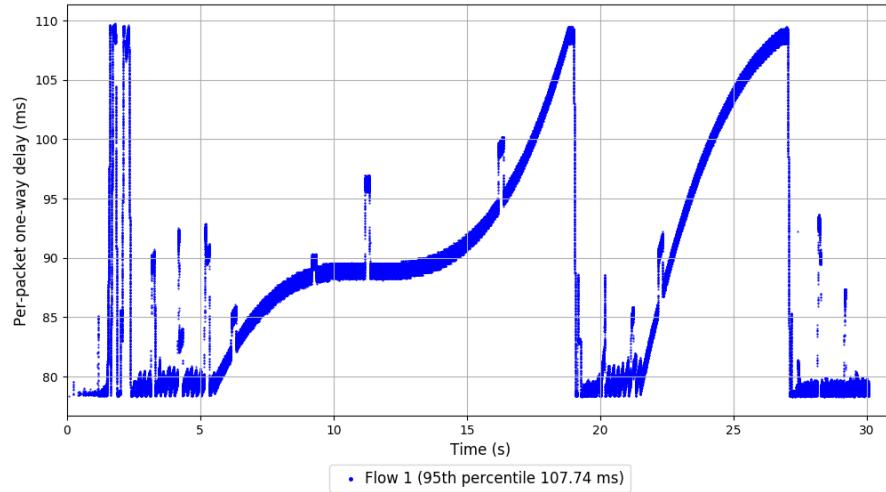
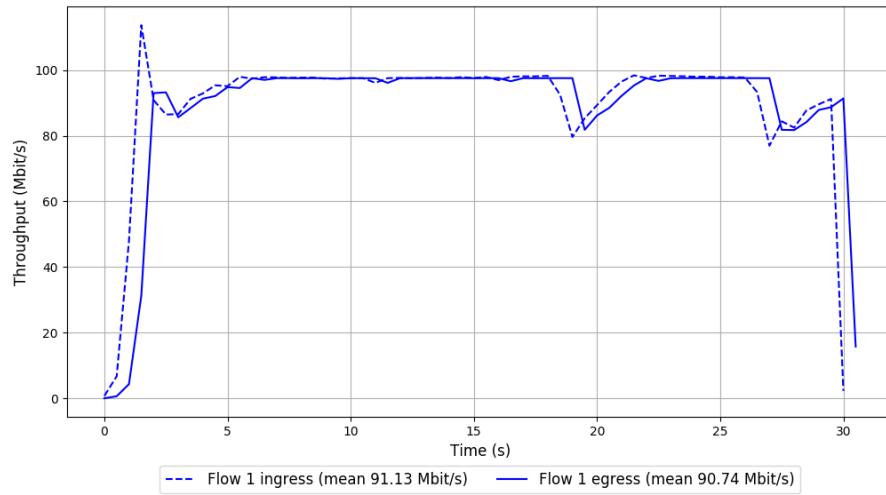


Run 5: Statistics of TCP Cubic

```
Start at: 2019-06-27 04:24:23
End at: 2019-06-27 04:24:54
Local clock offset: -7.03 ms
Remote clock offset: 29.663 ms

# Below is generated by plot.py at 2019-06-27 04:28:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.74 Mbit/s
95th percentile per-packet one-way delay: 107.738 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 90.74 Mbit/s
95th percentile per-packet one-way delay: 107.738 ms
Loss rate: 0.43%
```

Run 5: Report of TCP Cubic — Data Link

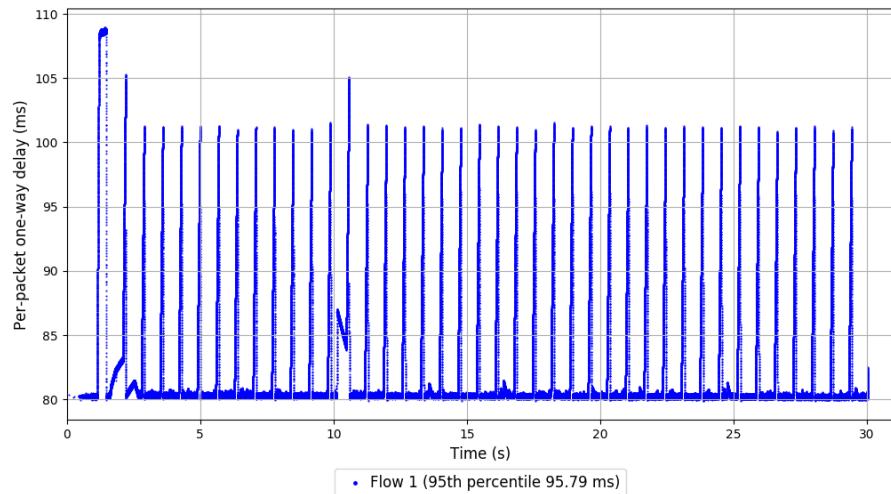
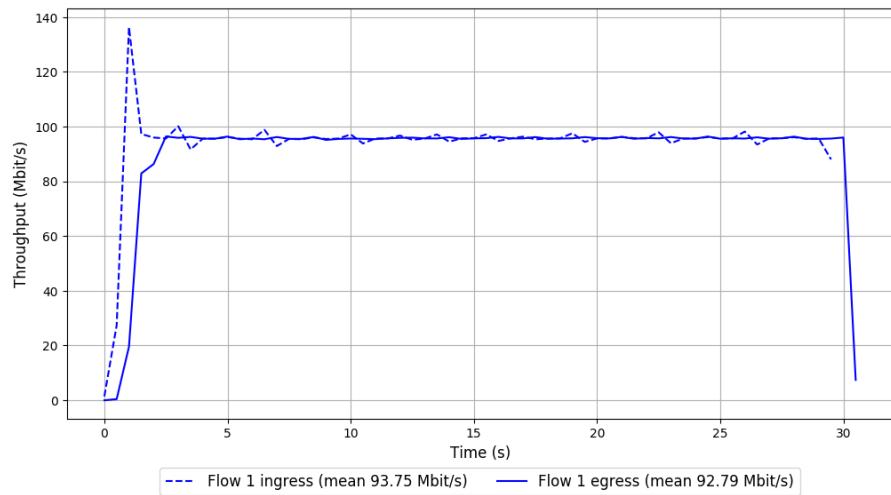


```
Run 1: Statistics of FillP
```

```
Start at: 2019-06-27 02:25:58
End at: 2019-06-27 02:26:28
Local clock offset: -2.35 ms
Remote clock offset: 15.568 ms

# Below is generated by plot.py at 2019-06-27 04:28:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.79 Mbit/s
95th percentile per-packet one-way delay: 95.789 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 92.79 Mbit/s
95th percentile per-packet one-way delay: 95.789 ms
Loss rate: 1.02%
```

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

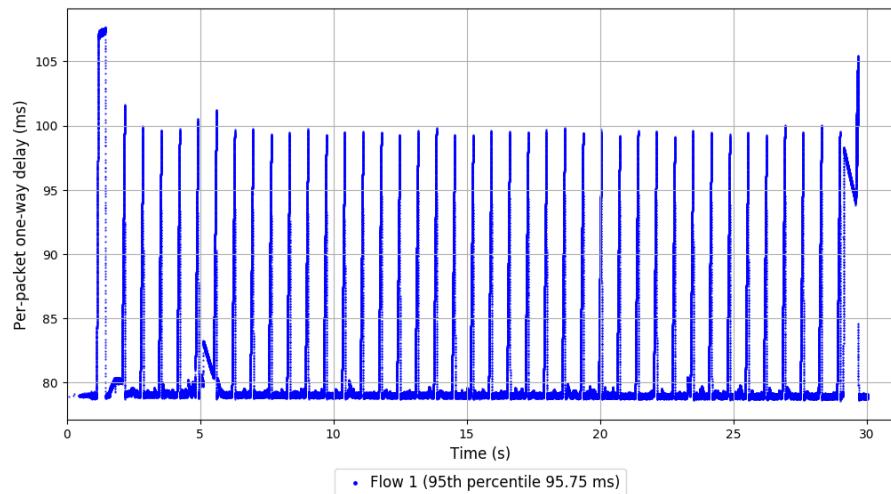
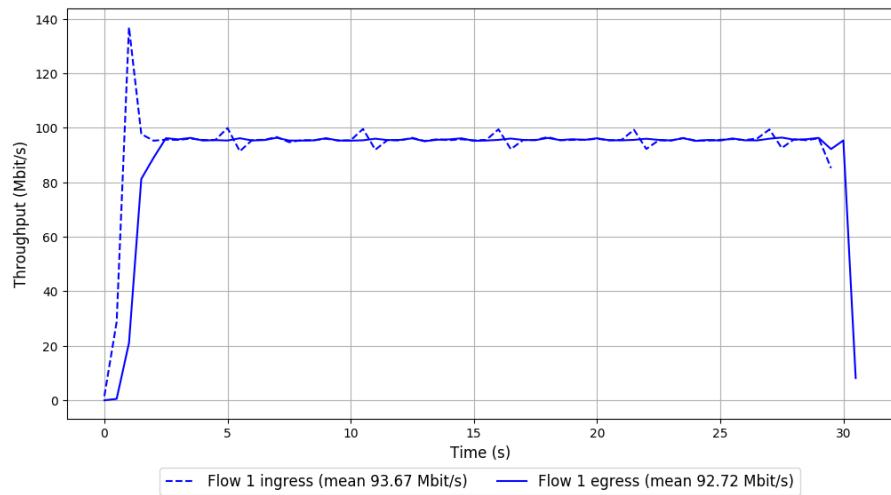


Run 2: Statistics of FillP

```
Start at: 2019-06-27 02:51:47
End at: 2019-06-27 02:52:17
Local clock offset: -3.925 ms
Remote clock offset: 18.786 ms

# Below is generated by plot.py at 2019-06-27 04:28:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 95.753 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 95.753 ms
Loss rate: 1.02%
```

## Run 2: Report of FillP — Data Link

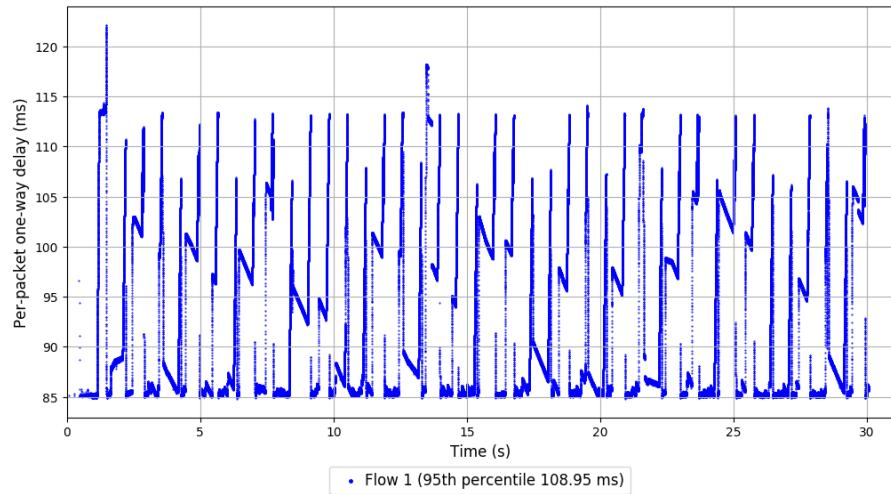
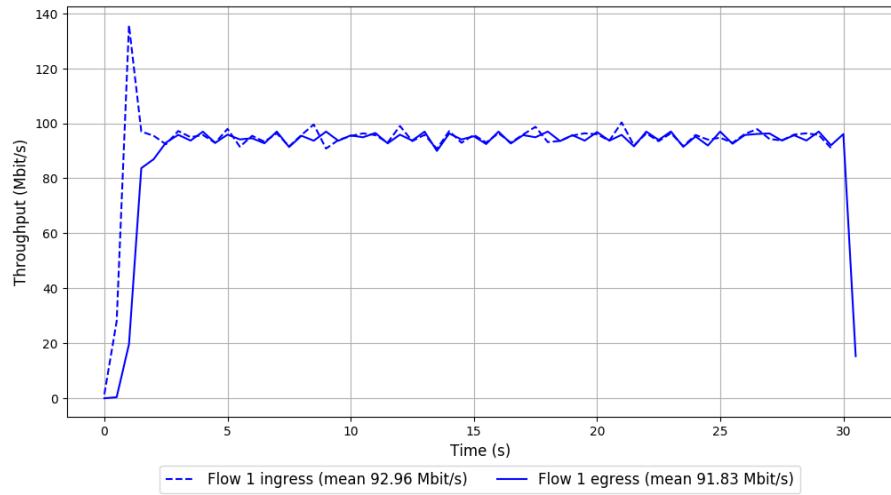


Run 3: Statistics of FillP

```
Start at: 2019-06-27 03:17:34
End at: 2019-06-27 03:18:04
Local clock offset: -4.064 ms
Remote clock offset: 27.51 ms

# Below is generated by plot.py at 2019-06-27 04:28:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.83 Mbit/s
95th percentile per-packet one-way delay: 108.947 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 91.83 Mbit/s
95th percentile per-packet one-way delay: 108.947 ms
Loss rate: 1.21%
```

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

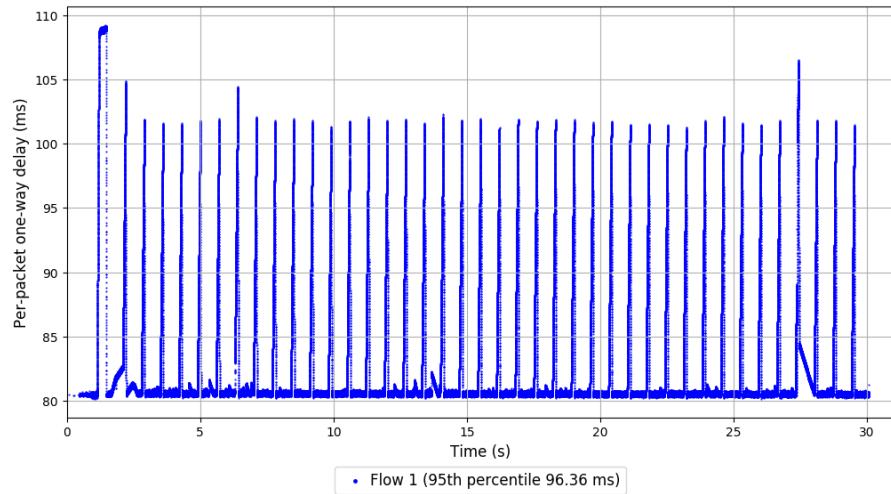
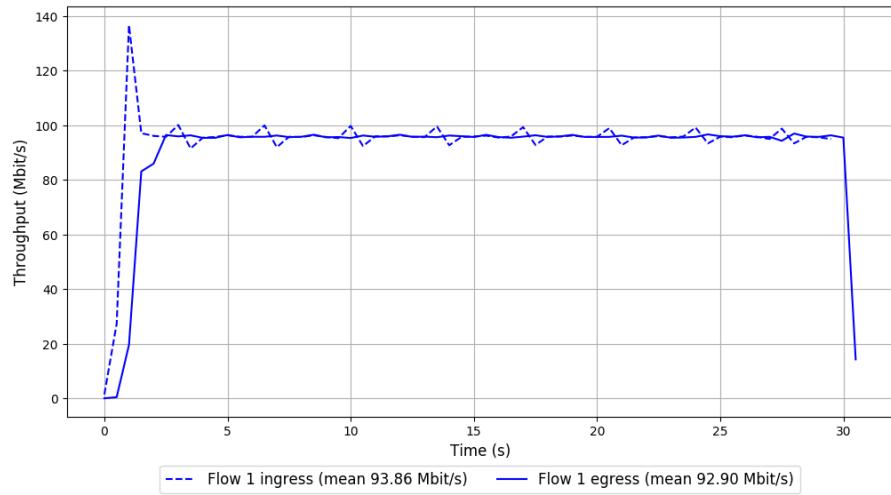


Run 4: Statistics of FillP

```
Start at: 2019-06-27 03:43:21
End at: 2019-06-27 03:43:51
Local clock offset: -5.352 ms
Remote clock offset: 24.335 ms

# Below is generated by plot.py at 2019-06-27 04:28:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 96.359 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 96.359 ms
Loss rate: 1.02%
```

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

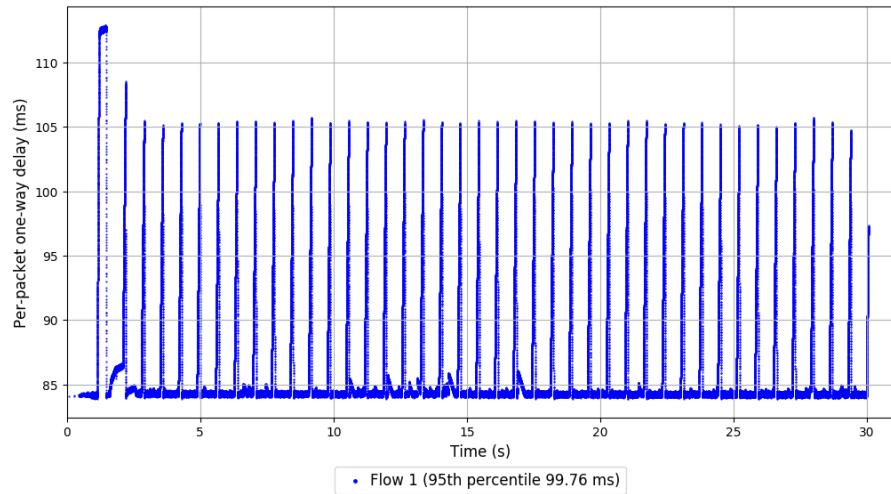
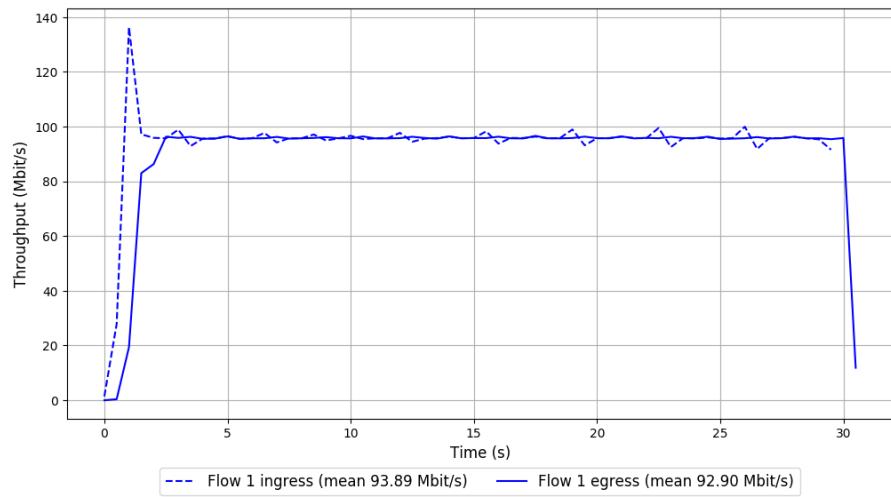


Run 5: Statistics of FillP

```
Start at: 2019-06-27 04:09:05
End at: 2019-06-27 04:09:35
Local clock offset: -6.071 ms
Remote clock offset: 32.904 ms

# Below is generated by plot.py at 2019-06-27 04:28:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 99.763 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 99.763 ms
Loss rate: 1.01%
```

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

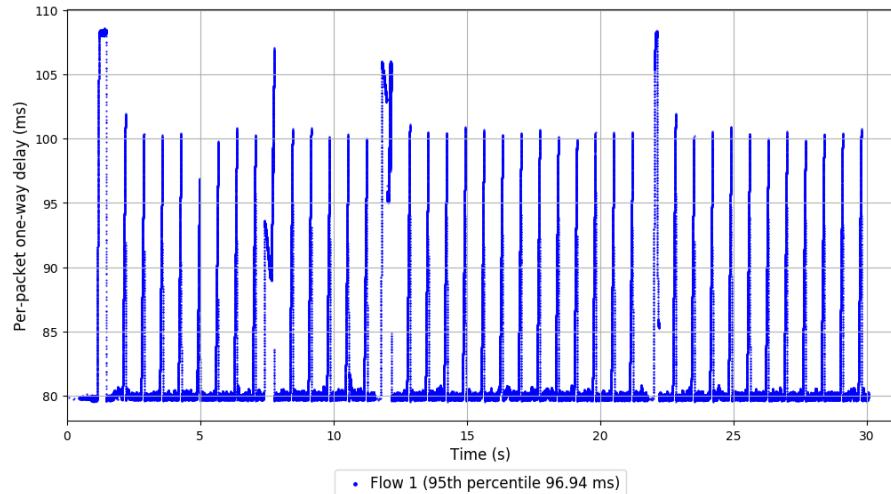
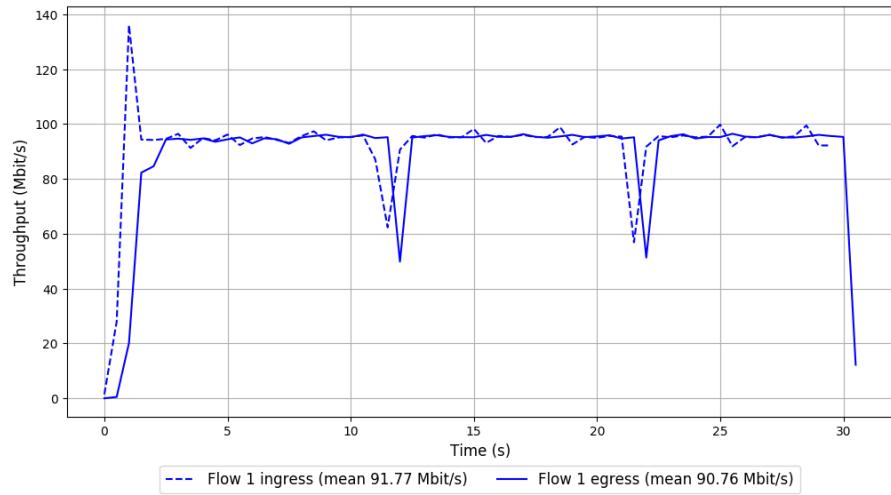


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-06-27 02:37:45
End at: 2019-06-27 02:38:15
Local clock offset: -2.837 ms
Remote clock offset: 16.802 ms

# Below is generated by plot.py at 2019-06-27 04:28:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.76 Mbit/s
95th percentile per-packet one-way delay: 96.940 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 90.76 Mbit/s
95th percentile per-packet one-way delay: 96.940 ms
Loss rate: 1.10%
```

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

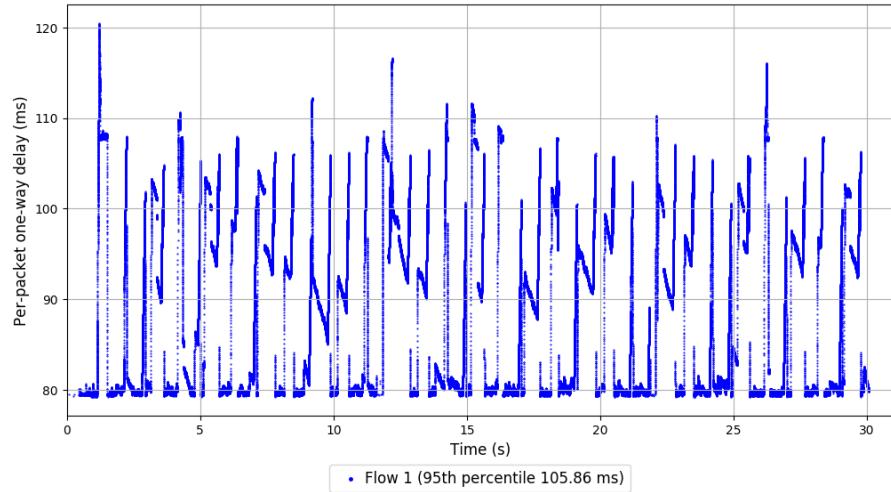
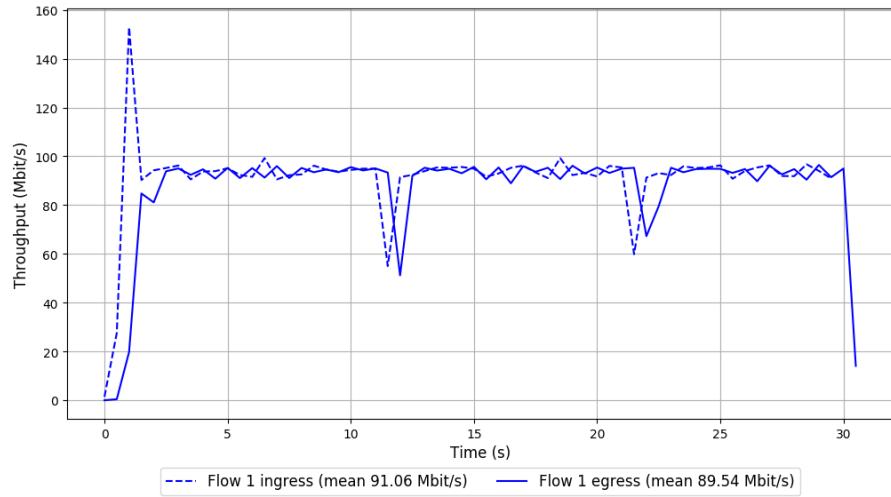


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-06-27 03:03:31
End at: 2019-06-27 03:04:02
Local clock offset: -4.231 ms
Remote clock offset: 20.142 ms

# Below is generated by plot.py at 2019-06-27 04:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.54 Mbit/s
95th percentile per-packet one-way delay: 105.865 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 89.54 Mbit/s
95th percentile per-packet one-way delay: 105.865 ms
Loss rate: 1.67%
```

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

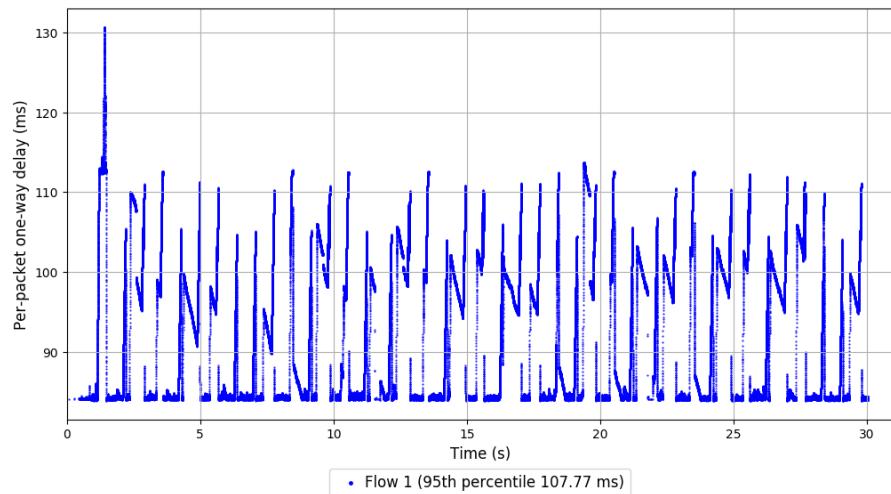
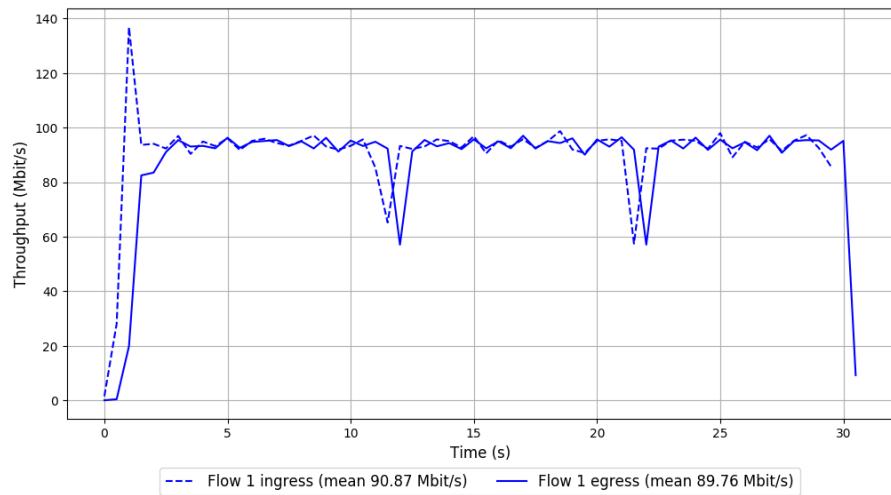


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-06-27 03:29:18
End at: 2019-06-27 03:29:48
Local clock offset: -4.635 ms
Remote clock offset: 27.806 ms

# Below is generated by plot.py at 2019-06-27 04:29:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 107.769 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 107.769 ms
Loss rate: 1.22%
```

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

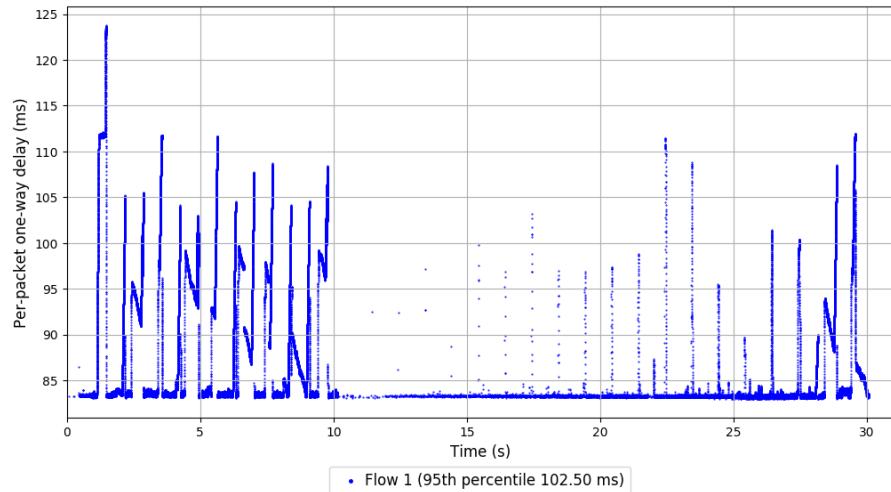
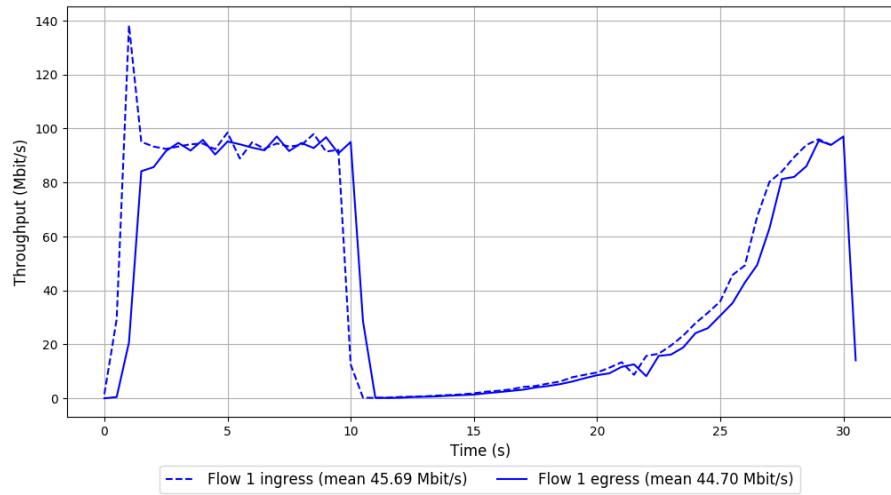


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-06-27 03:55:05
End at: 2019-06-27 03:55:35
Local clock offset: -6.15 ms
Remote clock offset: 31.07 ms

# Below is generated by plot.py at 2019-06-27 04:29:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.70 Mbit/s
95th percentile per-packet one-way delay: 102.498 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 44.70 Mbit/s
95th percentile per-packet one-way delay: 102.498 ms
Loss rate: 2.15%
```

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

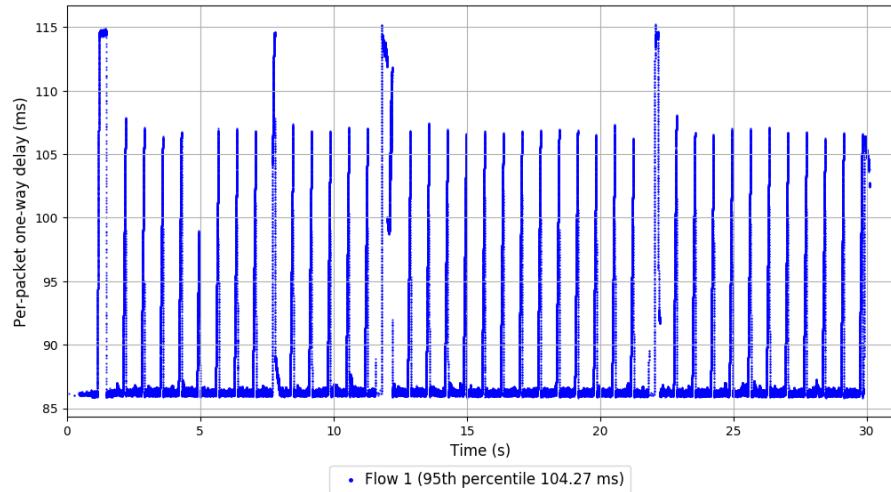
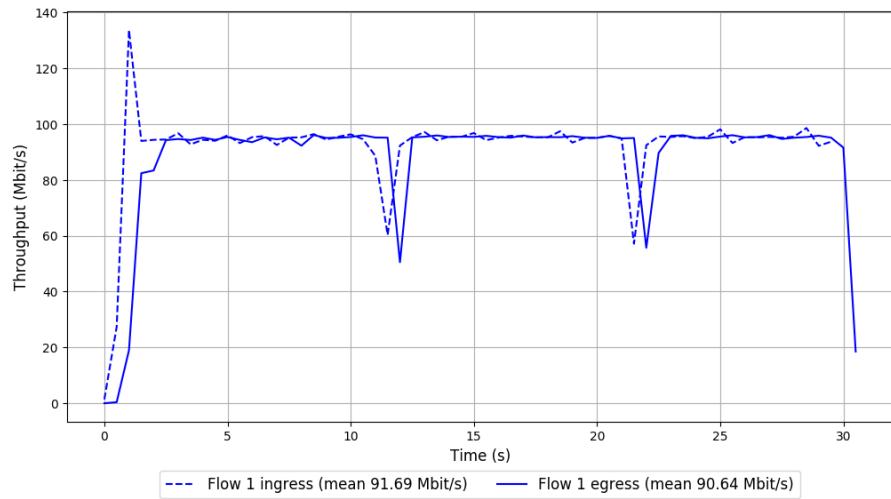


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-06-27 04:20:49
End at: 2019-06-27 04:21:19
Local clock offset: -6.838 ms
Remote clock offset: 35.18 ms

# Below is generated by plot.py at 2019-06-27 04:30:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.64 Mbit/s
95th percentile per-packet one-way delay: 104.268 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 90.64 Mbit/s
95th percentile per-packet one-way delay: 104.268 ms
Loss rate: 1.09%
```

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

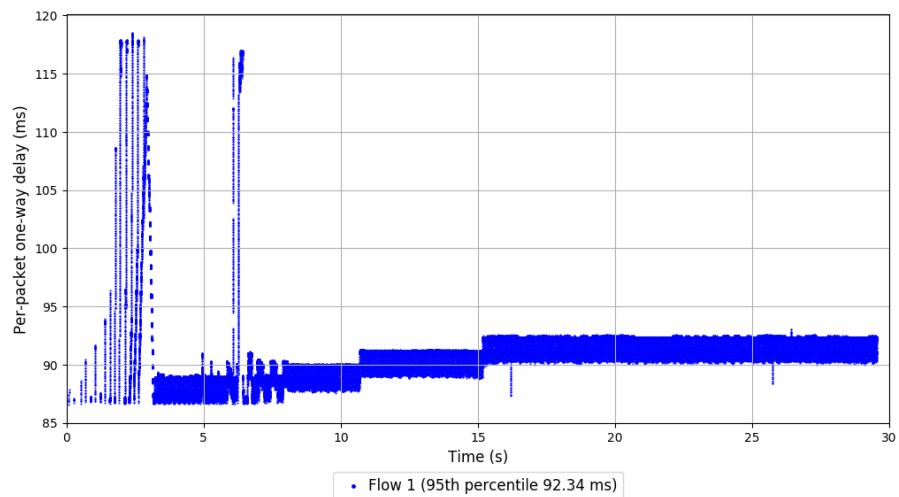
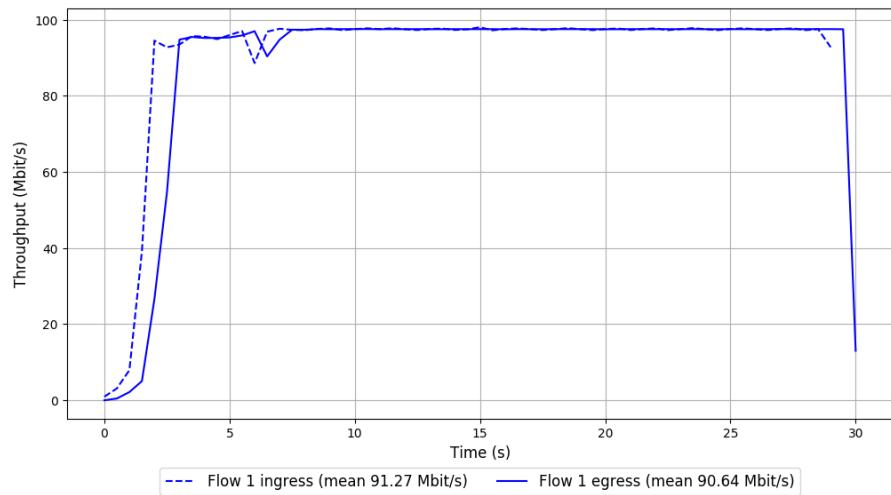


Run 1: Statistics of Indigo

```
Start at: 2019-06-27 02:16:37
End at: 2019-06-27 02:17:07
Local clock offset: -0.619 ms
Remote clock offset: 19.488 ms

# Below is generated by plot.py at 2019-06-27 04:30:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.64 Mbit/s
95th percentile per-packet one-way delay: 92.337 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 90.64 Mbit/s
95th percentile per-packet one-way delay: 92.337 ms
Loss rate: 0.67%
```

## Run 1: Report of Indigo — Data Link

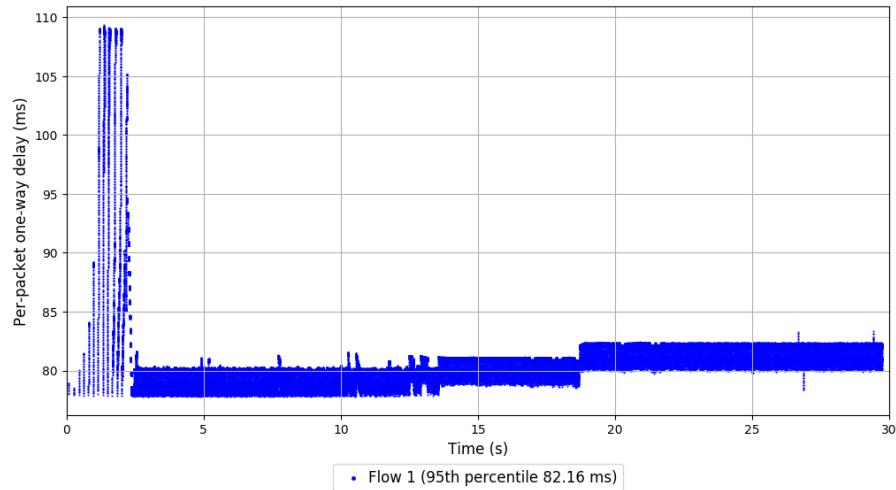
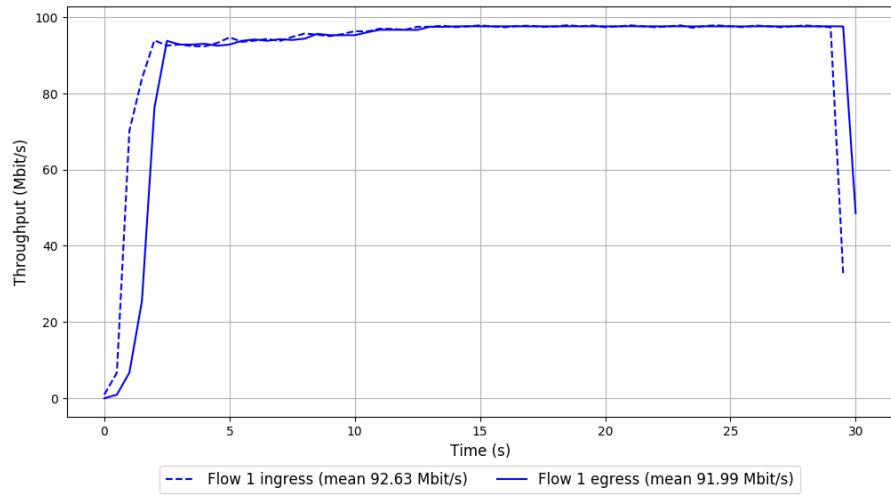


Run 2: Statistics of Indigo

```
Start at: 2019-06-27 02:42:27
End at: 2019-06-27 02:42:57
Local clock offset: -2.63 ms
Remote clock offset: 16.563 ms

# Below is generated by plot.py at 2019-06-27 04:30:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.99 Mbit/s
95th percentile per-packet one-way delay: 82.156 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 91.99 Mbit/s
95th percentile per-packet one-way delay: 82.156 ms
Loss rate: 0.68%
```

## Run 2: Report of Indigo — Data Link

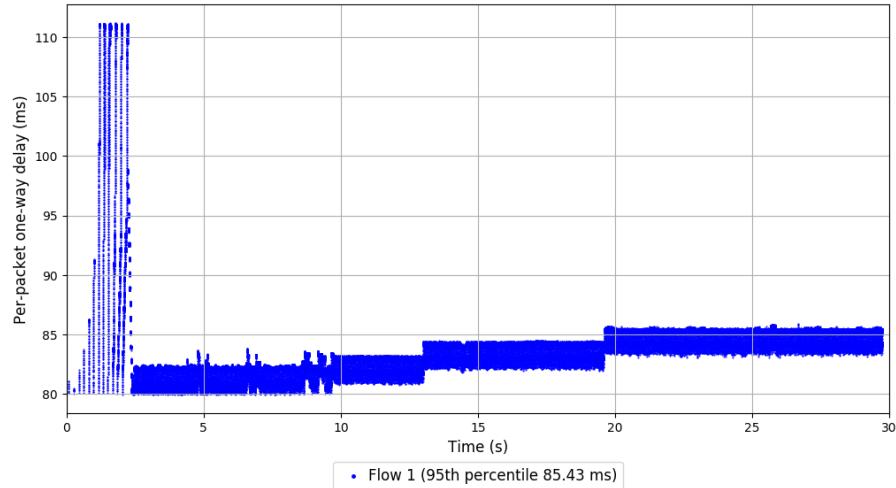
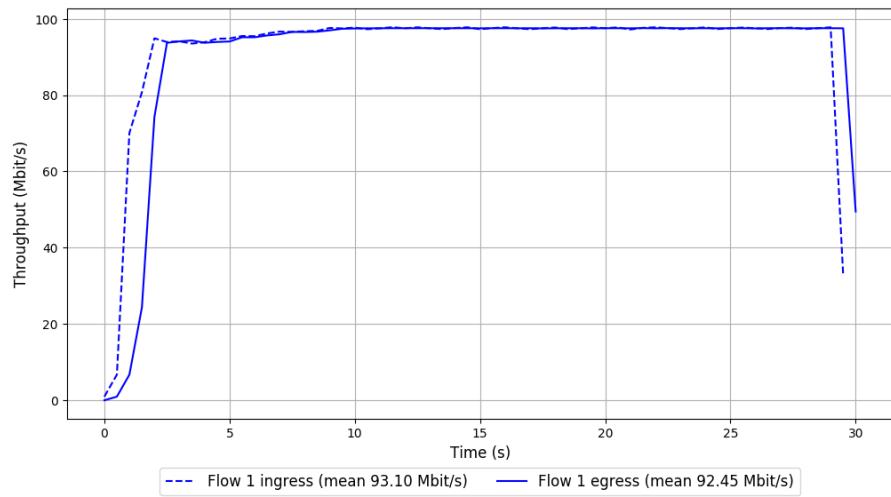


Run 3: Statistics of Indigo

```
Start at: 2019-06-27 03:08:14
End at: 2019-06-27 03:08:44
Local clock offset: -4.242 ms
Remote clock offset: 20.972 ms

# Below is generated by plot.py at 2019-06-27 04:30:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.45 Mbit/s
95th percentile per-packet one-way delay: 85.430 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 92.45 Mbit/s
95th percentile per-packet one-way delay: 85.430 ms
Loss rate: 0.69%
```

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

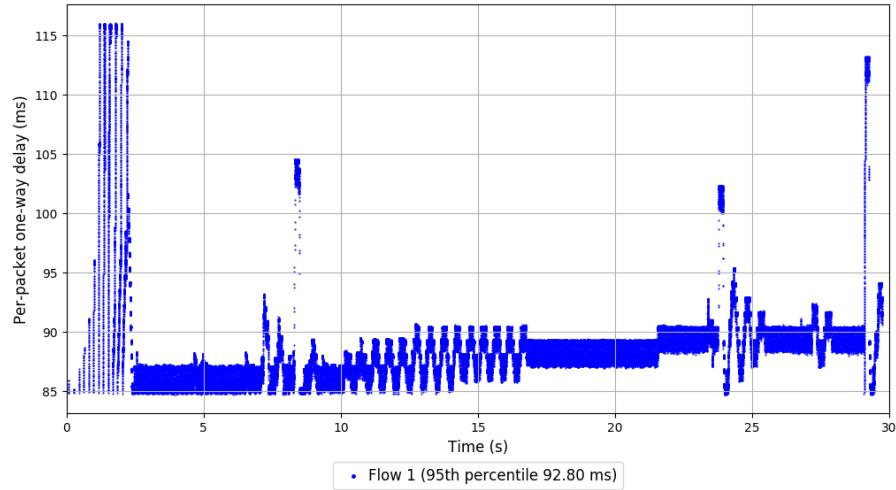
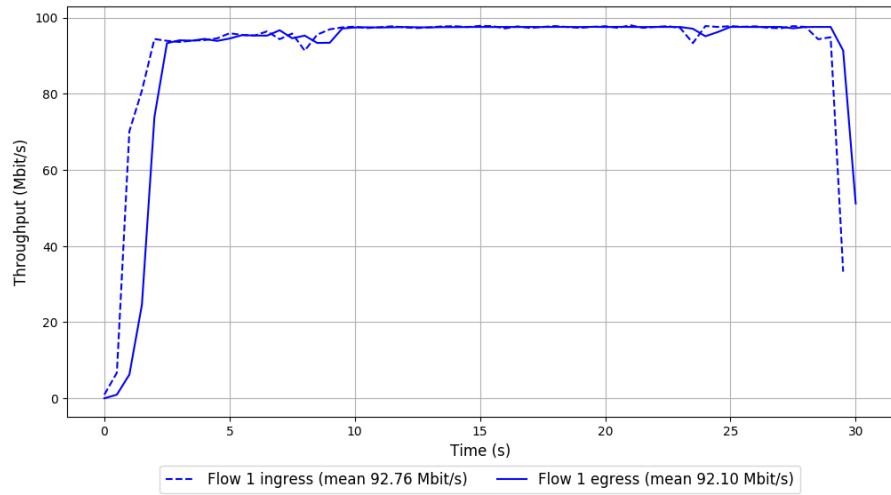


Run 4: Statistics of Indigo

```
Start at: 2019-06-27 03:34:01
End at: 2019-06-27 03:34:31
Local clock offset: -4.892 ms
Remote clock offset: 28.445 ms

# Below is generated by plot.py at 2019-06-27 04:30:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.10 Mbit/s
95th percentile per-packet one-way delay: 92.795 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 92.10 Mbit/s
95th percentile per-packet one-way delay: 92.795 ms
Loss rate: 0.68%
```

## Run 4: Report of Indigo — Data Link

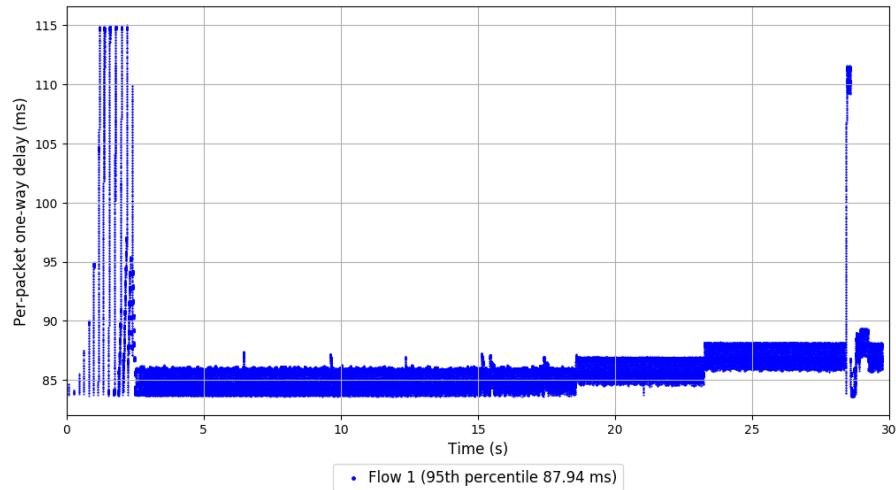
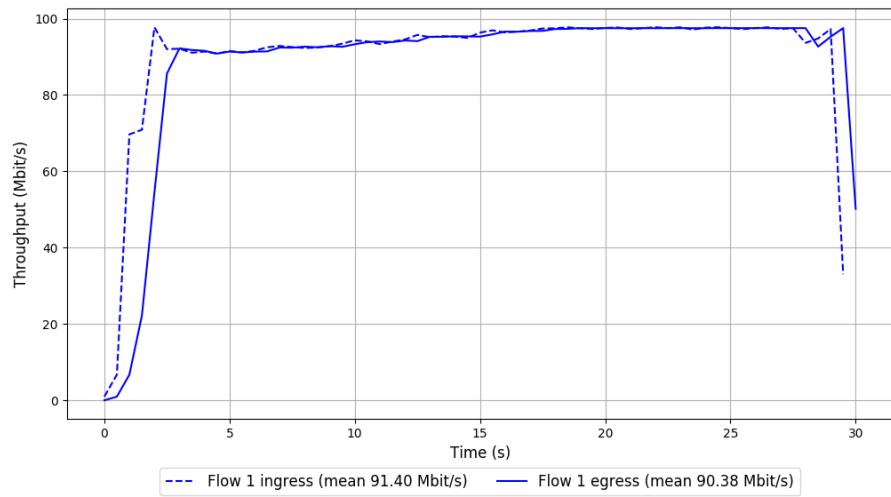


Run 5: Statistics of Indigo

```
Start at: 2019-06-27 03:59:44
End at: 2019-06-27 04:00:14
Local clock offset: -6.71 ms
Remote clock offset: 31.633 ms

# Below is generated by plot.py at 2019-06-27 04:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.38 Mbit/s
95th percentile per-packet one-way delay: 87.941 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 90.38 Mbit/s
95th percentile per-packet one-way delay: 87.941 ms
Loss rate: 1.11%
```

## Run 5: Report of Indigo — Data Link

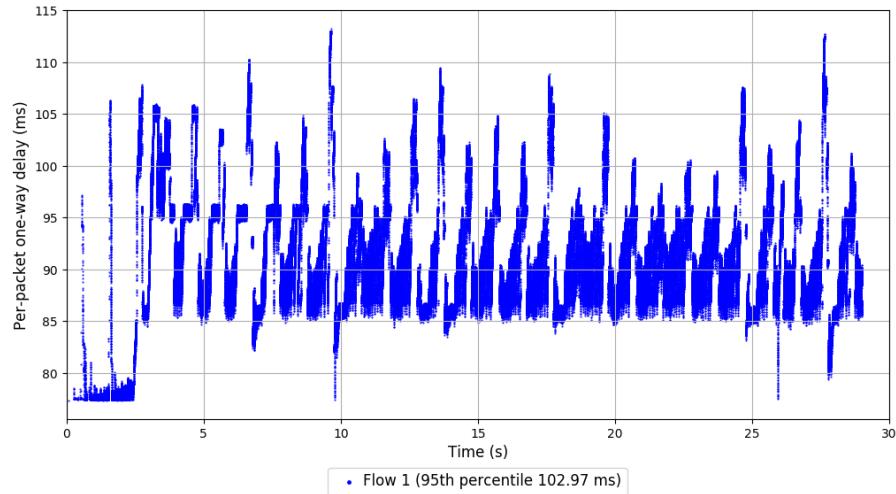
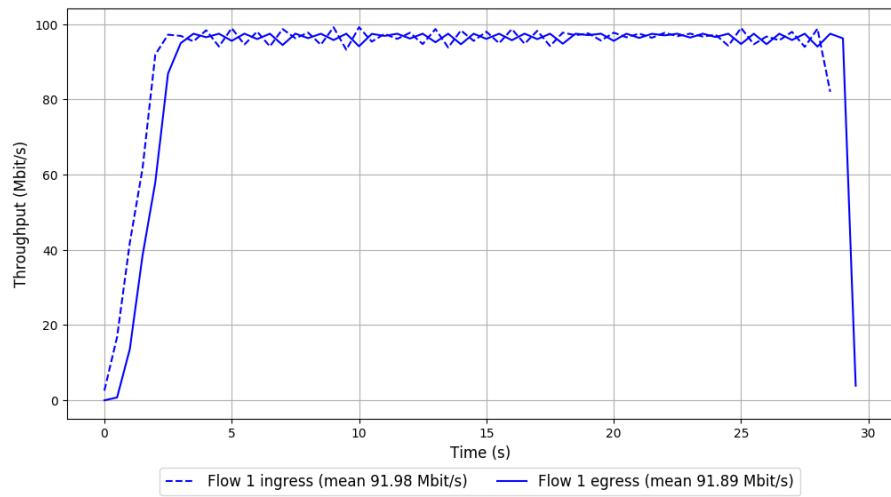


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 02:23:37
End at: 2019-06-27 02:24:07
Local clock offset: -1.735 ms
Remote clock offset: 13.889 ms

# Below is generated by plot.py at 2019-06-27 04:30:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.89 Mbit/s
95th percentile per-packet one-way delay: 102.969 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 91.89 Mbit/s
95th percentile per-packet one-way delay: 102.969 ms
Loss rate: 0.07%
```

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

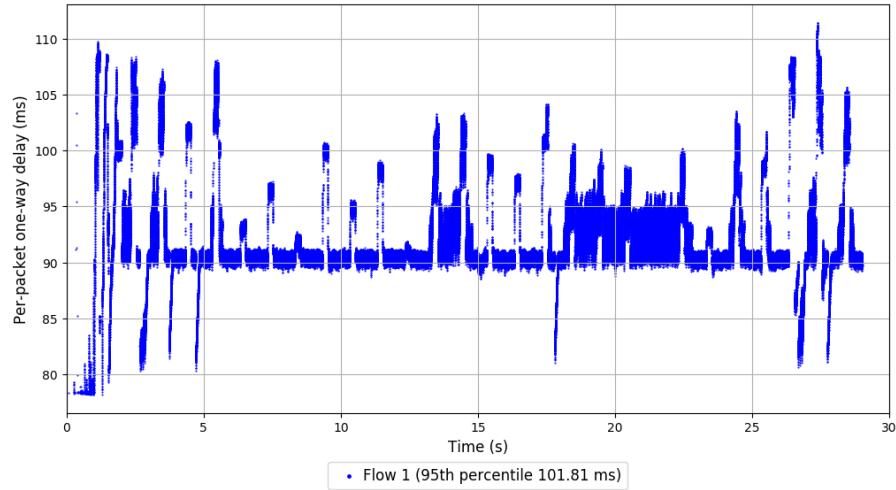
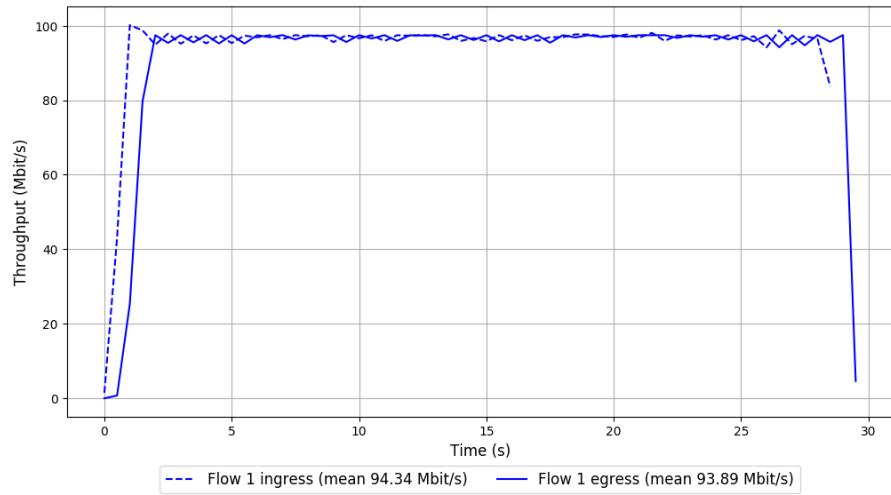


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 02:49:26
End at: 2019-06-27 02:49:56
Local clock offset: -2.785 ms
Remote clock offset: 17.434 ms

# Below is generated by plot.py at 2019-06-27 04:31:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.89 Mbit/s
95th percentile per-packet one-way delay: 101.806 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 93.89 Mbit/s
95th percentile per-packet one-way delay: 101.806 ms
Loss rate: 0.43%
```

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

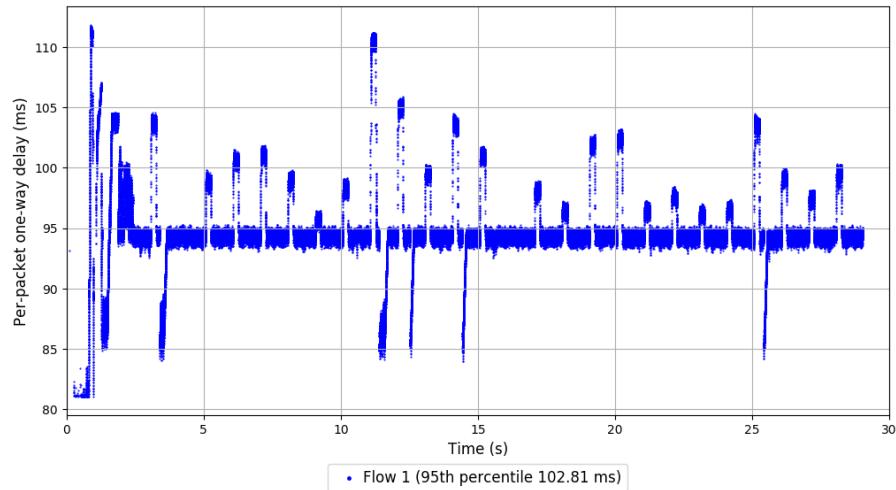
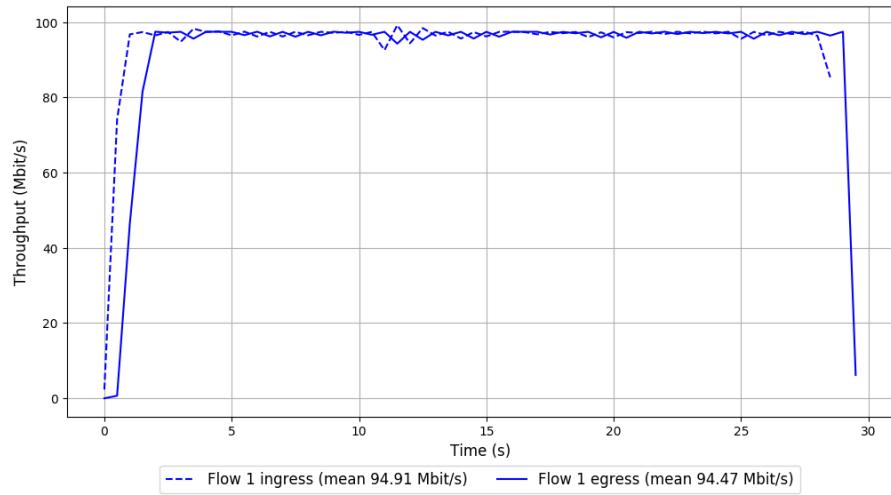


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 03:15:13
End at: 2019-06-27 03:15:44
Local clock offset: -4.085 ms
Remote clock offset: 24.609 ms

# Below is generated by plot.py at 2019-06-27 04:31:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.47 Mbit/s
95th percentile per-packet one-way delay: 102.808 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 94.47 Mbit/s
95th percentile per-packet one-way delay: 102.808 ms
Loss rate: 0.46%
```

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

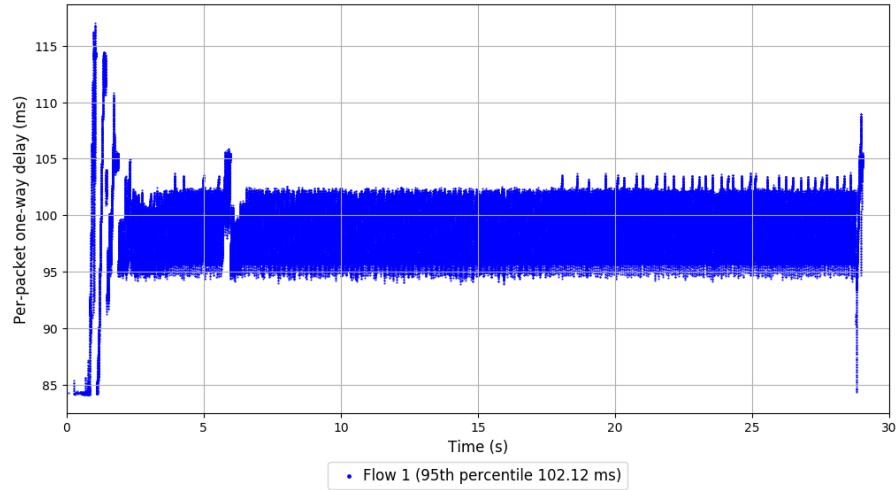
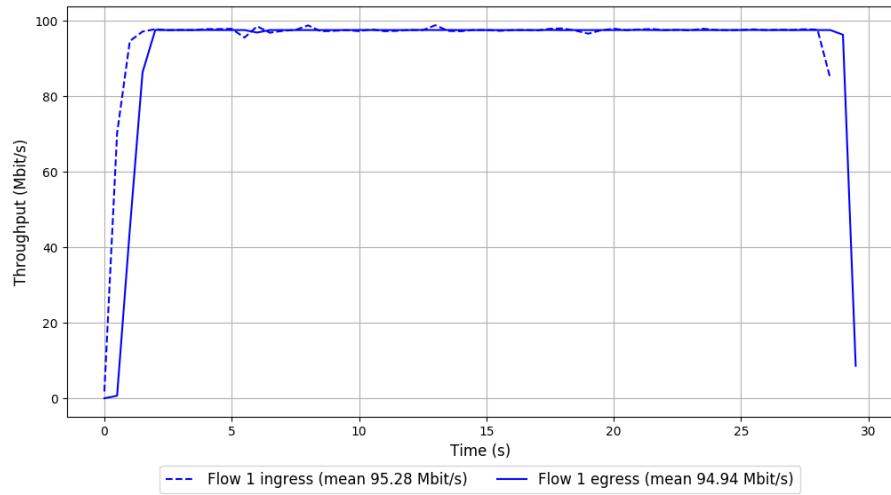


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 03:41:00
End at: 2019-06-27 03:41:30
Local clock offset: -4.798 ms
Remote clock offset: 29.124 ms

# Below is generated by plot.py at 2019-06-27 04:31:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.94 Mbit/s
95th percentile per-packet one-way delay: 102.125 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 94.94 Mbit/s
95th percentile per-packet one-way delay: 102.125 ms
Loss rate: 0.29%
```

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

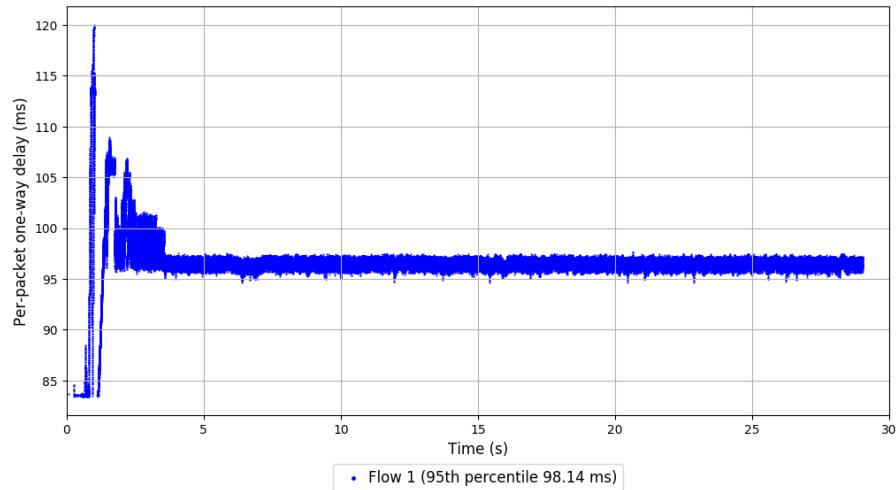
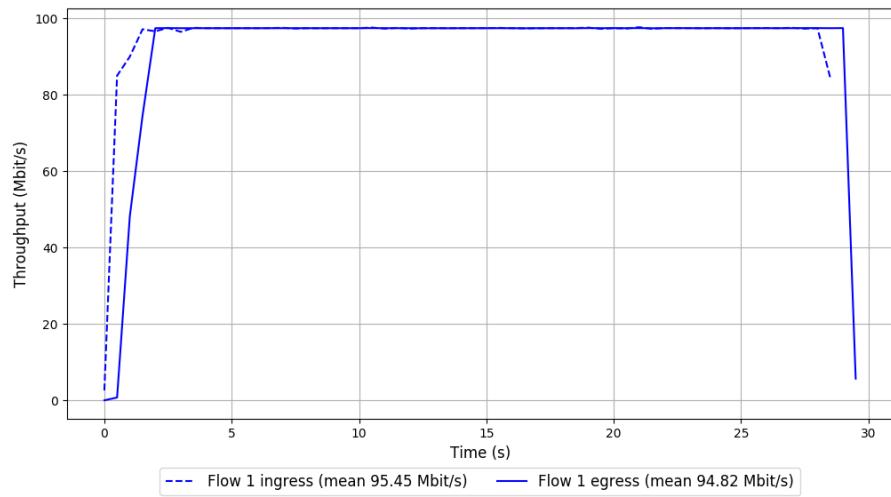


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 04:06:44
End at: 2019-06-27 04:07:14
Local clock offset: -6.752 ms
Remote clock offset: 32.47 ms

# Below is generated by plot.py at 2019-06-27 04:31:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 98.142 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 98.142 ms
Loss rate: 0.61%
```

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

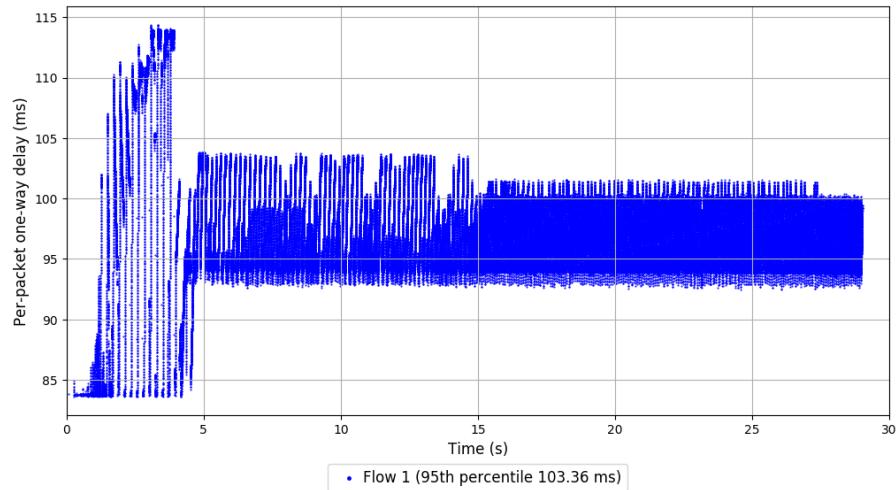
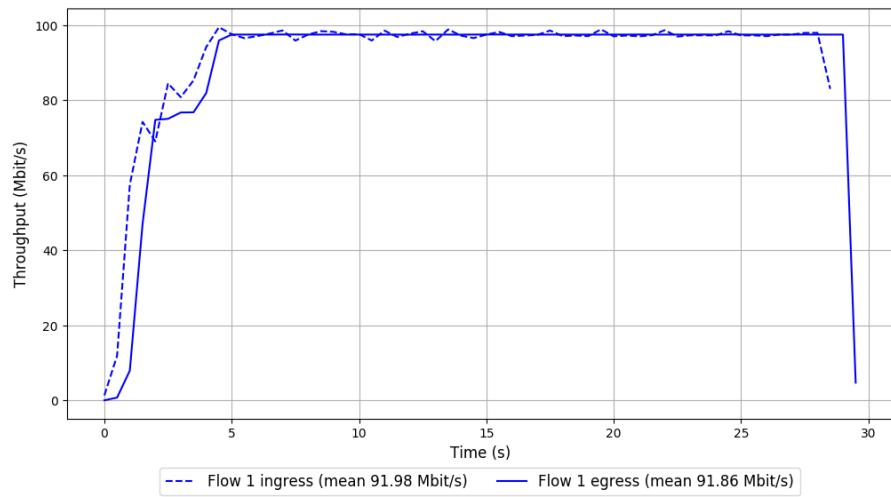


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 02:18:58
End at: 2019-06-27 02:19:28
Local clock offset: 0.402 ms
Remote clock offset: 18.451 ms

# Below is generated by plot.py at 2019-06-27 04:31:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.86 Mbit/s
95th percentile per-packet one-way delay: 103.360 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 91.86 Mbit/s
95th percentile per-packet one-way delay: 103.360 ms
Loss rate: 0.07%
```

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

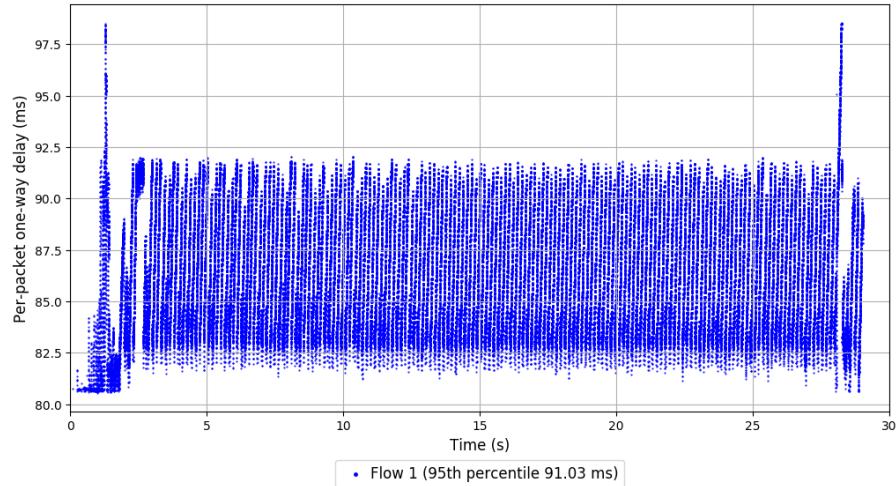
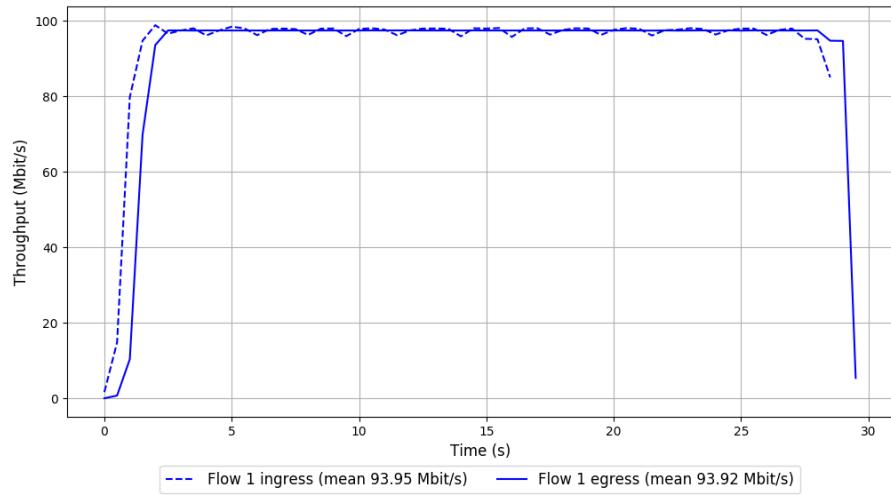


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 02:44:47
End at: 2019-06-27 02:45:17
Local clock offset: -2.709 ms
Remote clock offset: 17.85 ms

# Below is generated by plot.py at 2019-06-27 04:31:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: 91.029 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: 91.029 ms
Loss rate: 0.00%
```

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

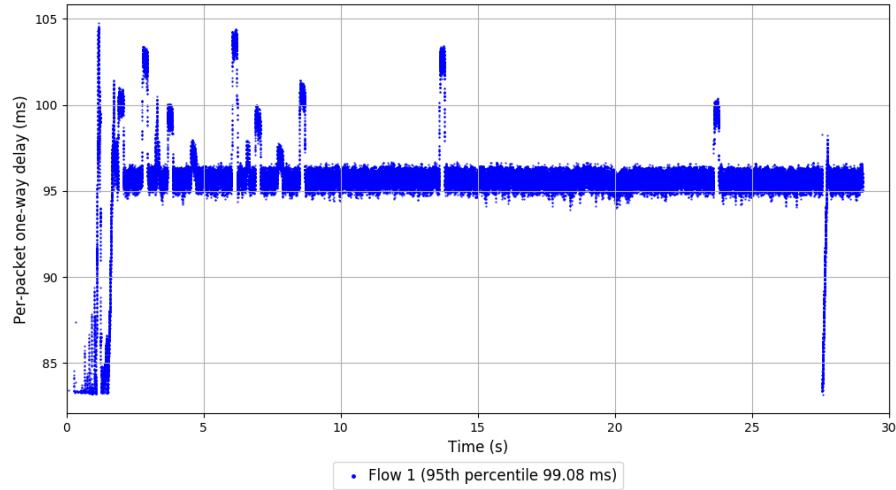
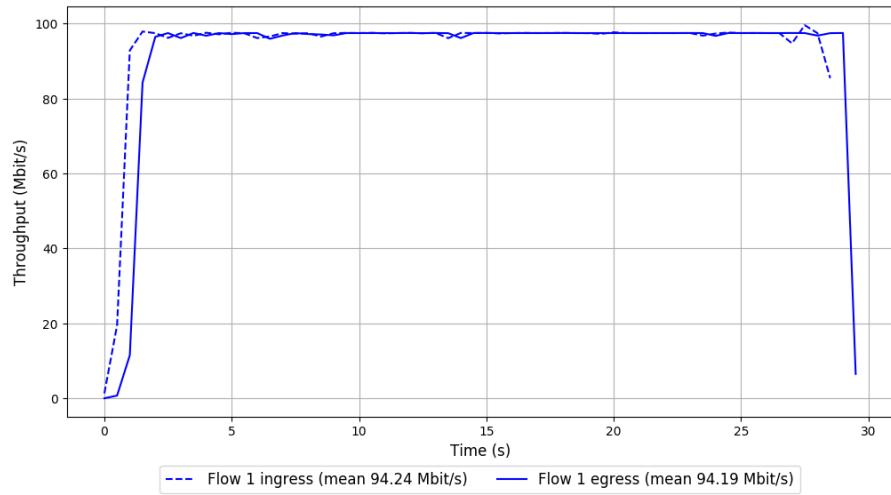


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 03:10:34
End at: 2019-06-27 03:11:04
Local clock offset: -5.062 ms
Remote clock offset: 24.32 ms

# Below is generated by plot.py at 2019-06-27 04:31:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.19 Mbit/s
95th percentile per-packet one-way delay: 99.082 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.19 Mbit/s
95th percentile per-packet one-way delay: 99.082 ms
Loss rate: 0.00%
```

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

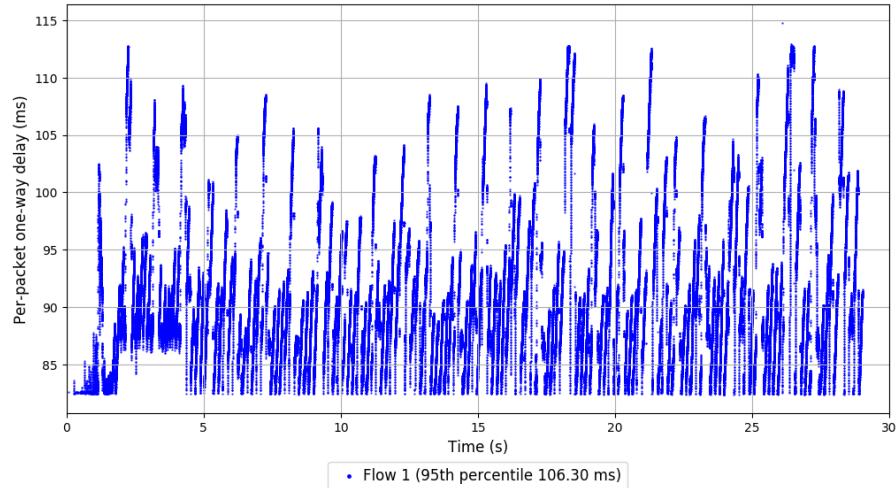
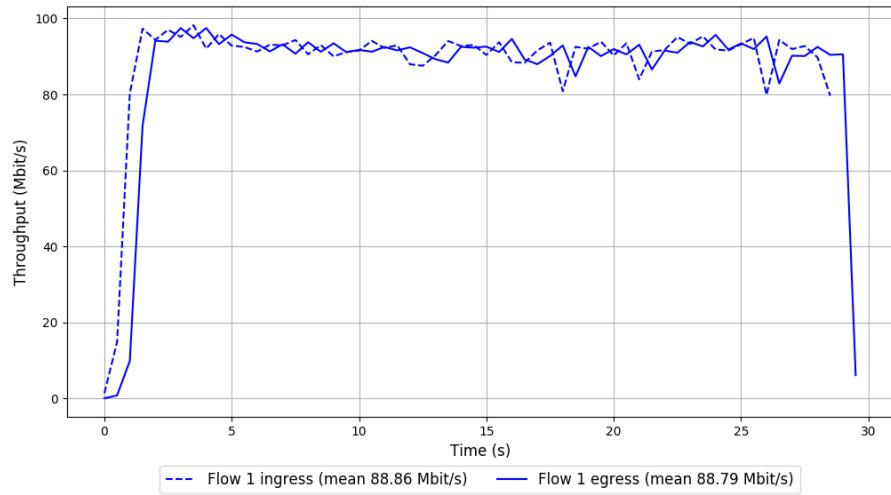


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 03:36:21
End at: 2019-06-27 03:36:51
Local clock offset: -4.673 ms
Remote clock offset: 28.579 ms

# Below is generated by plot.py at 2019-06-27 04:31:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.79 Mbit/s
95th percentile per-packet one-way delay: 106.301 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 88.79 Mbit/s
95th percentile per-packet one-way delay: 106.301 ms
Loss rate: 0.05%
```

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

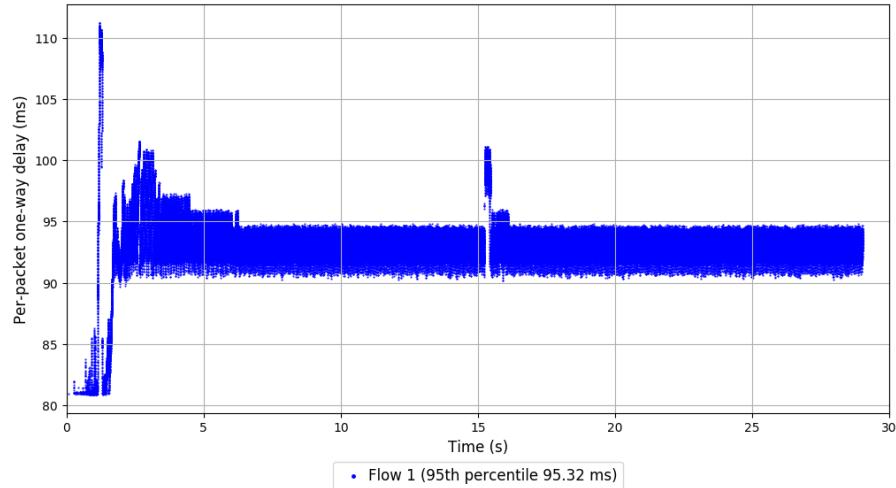
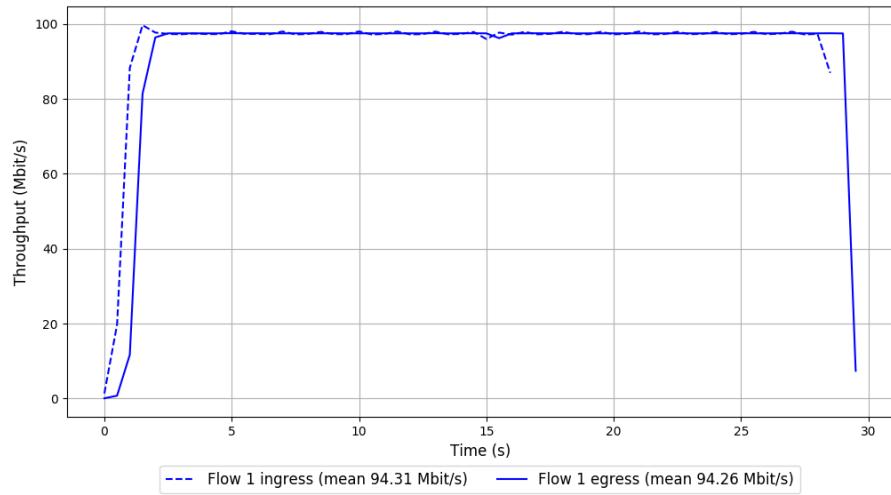


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 04:02:05
End at: 2019-06-27 04:02:35
Local clock offset: -5.903 ms
Remote clock offset: 27.946 ms

# Below is generated by plot.py at 2019-06-27 04:32:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 95.318 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 95.318 ms
Loss rate: 0.01%
```

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

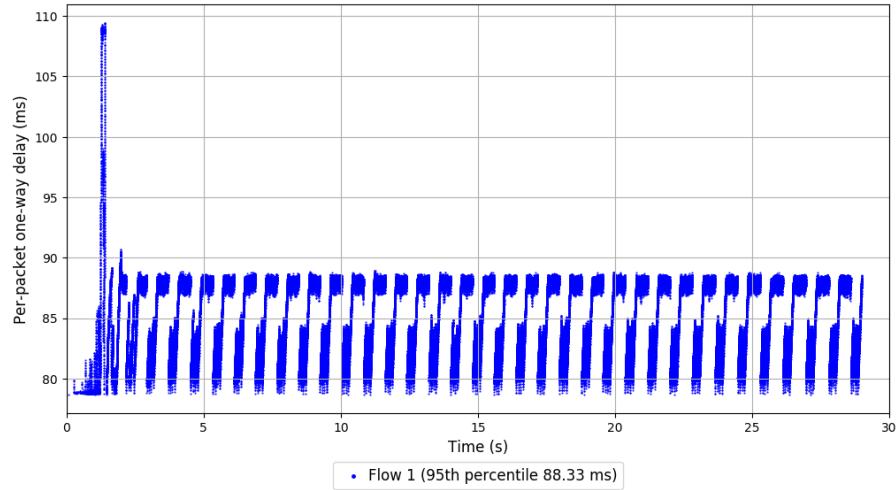
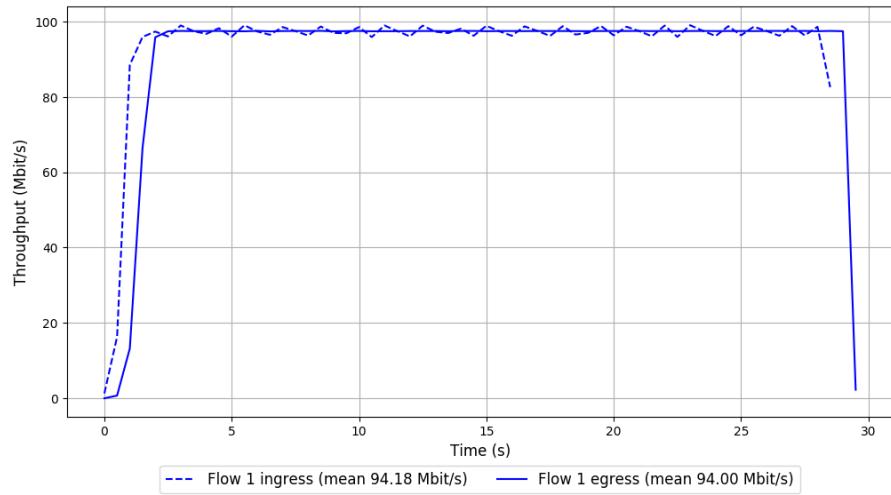


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 02:34:08
End at: 2019-06-27 02:34:38
Local clock offset: -2.932 ms
Remote clock offset: 15.28 ms

# Below is generated by plot.py at 2019-06-27 04:32:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.00 Mbit/s
95th percentile per-packet one-way delay: 88.327 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 94.00 Mbit/s
95th percentile per-packet one-way delay: 88.327 ms
Loss rate: 0.16%
```

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

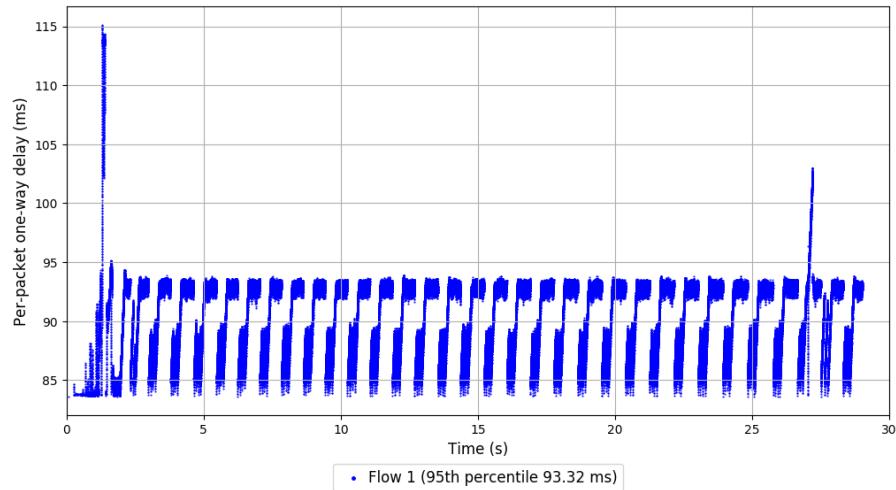
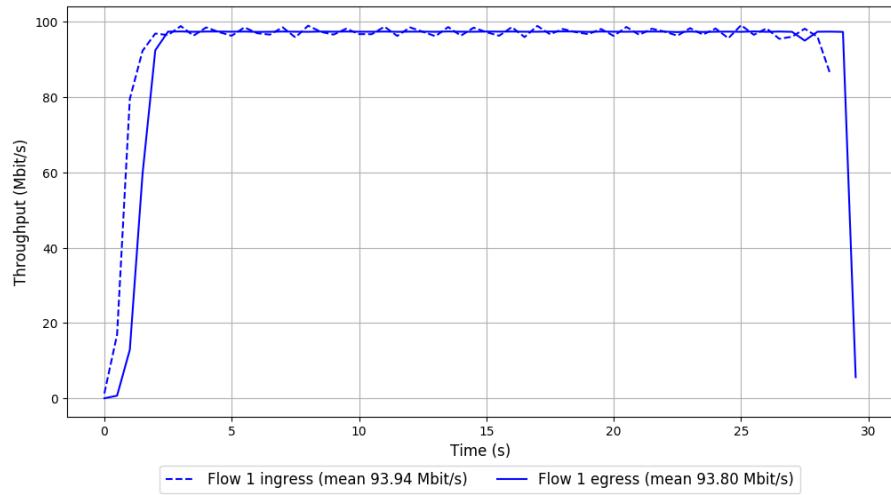


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 02:59:55
End at: 2019-06-27 03:00:25
Local clock offset: -4.969 ms
Remote clock offset: 22.742 ms

# Below is generated by plot.py at 2019-06-27 04:32:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 93.323 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 93.323 ms
Loss rate: 0.11%
```

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

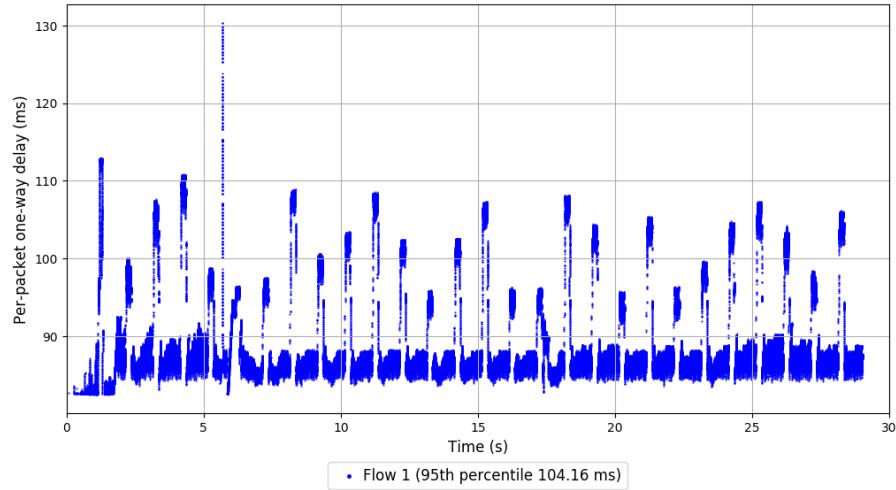
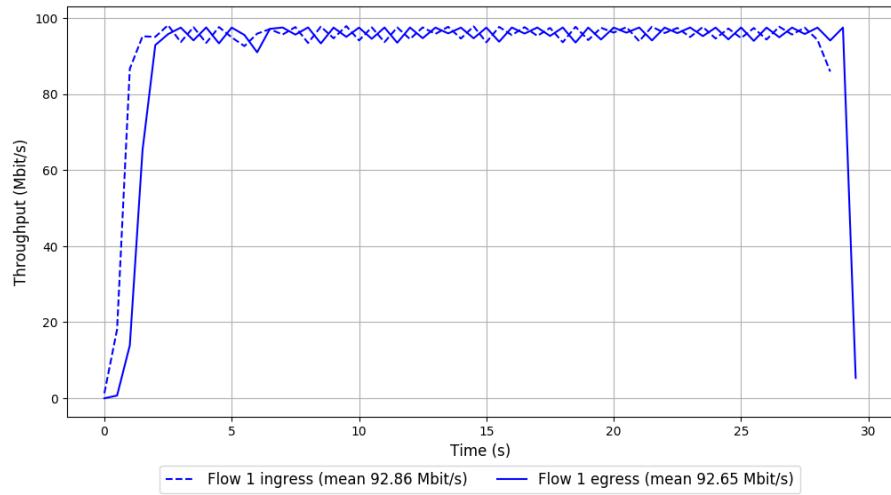


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 03:25:41
End at: 2019-06-27 03:26:11
Local clock offset: -4.833 ms
Remote clock offset: 27.265 ms

# Below is generated by plot.py at 2019-06-27 04:32:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.65 Mbit/s
95th percentile per-packet one-way delay: 104.156 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 92.65 Mbit/s
95th percentile per-packet one-way delay: 104.156 ms
Loss rate: 0.20%
```

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

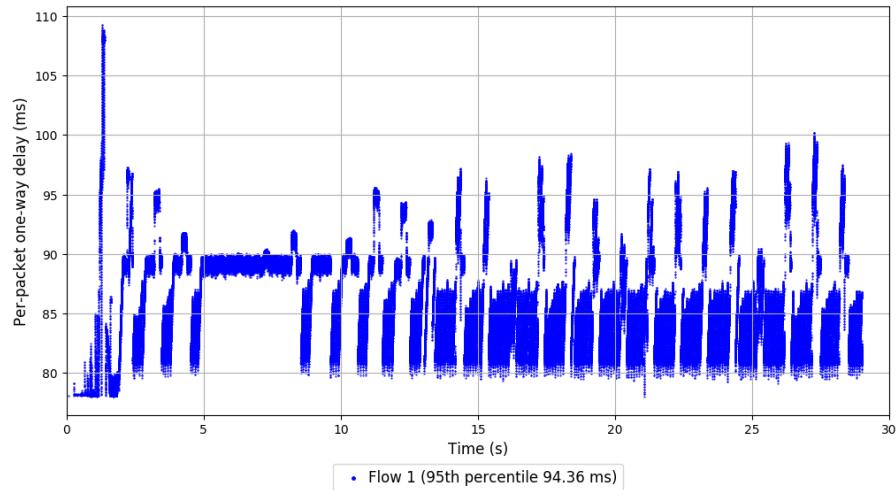
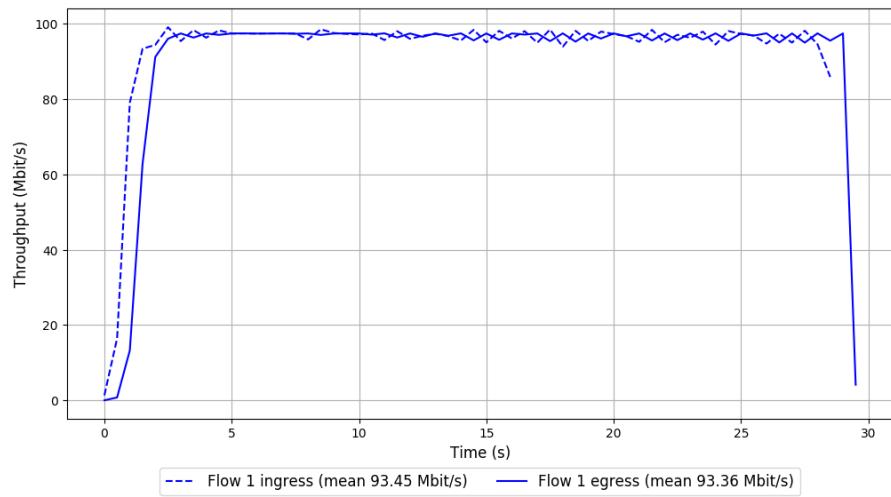


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 03:51:28
End at: 2019-06-27 03:51:58
Local clock offset: -5.72 ms
Remote clock offset: 25.457 ms

# Below is generated by plot.py at 2019-06-27 04:32:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 94.356 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 94.356 ms
Loss rate: 0.09%
```

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

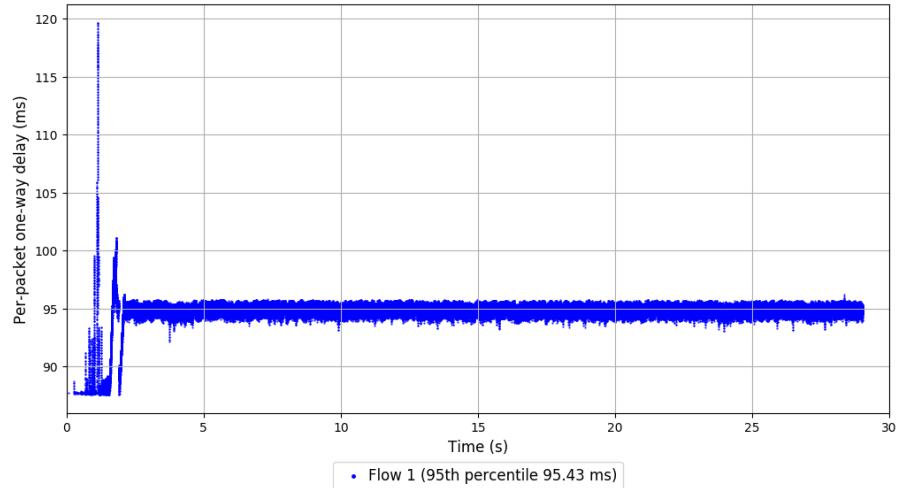
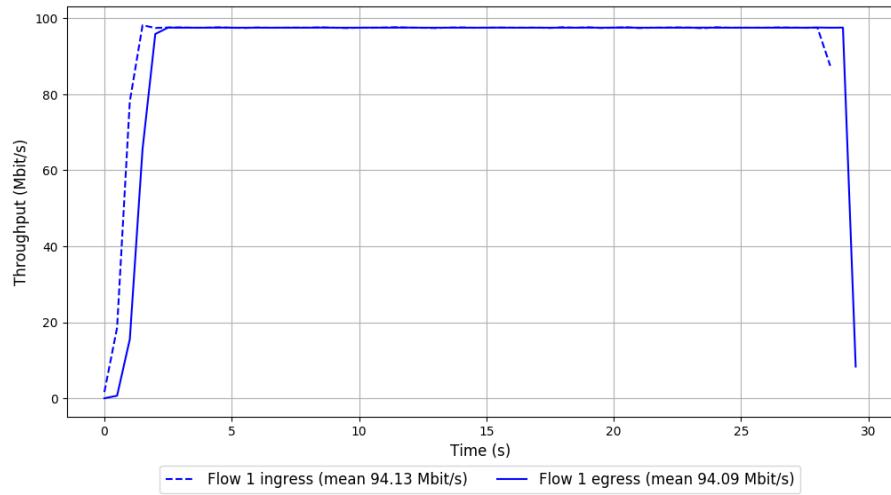


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 04:17:12
End at: 2019-06-27 04:17:42
Local clock offset: -6.878 ms
Remote clock offset: 34.869 ms

# Below is generated by plot.py at 2019-06-27 04:32:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 95.430 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 95.430 ms
Loss rate: 0.01%
```

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

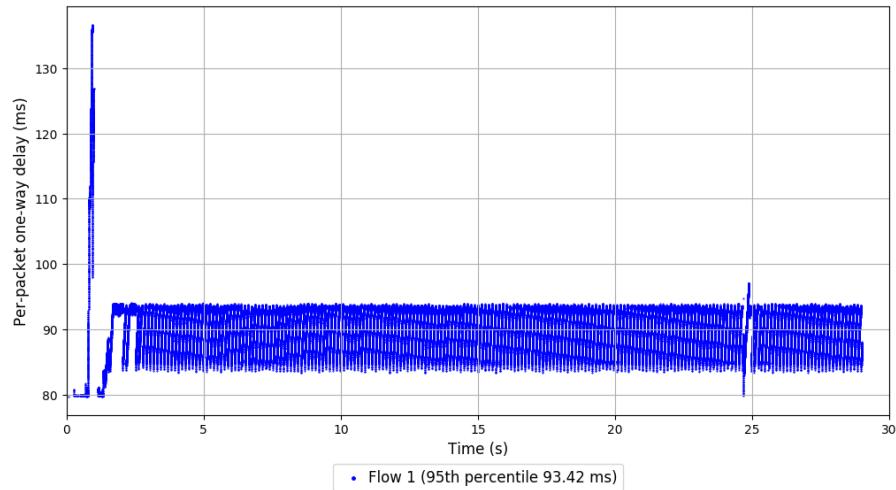
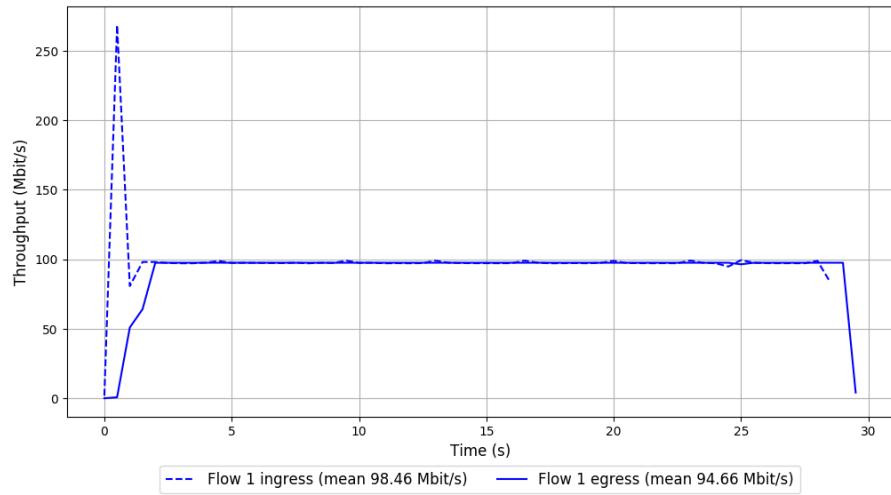


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 02:27:09
End at: 2019-06-27 02:27:40
Local clock offset: -3.337 ms
Remote clock offset: 15.547 ms

# Below is generated by plot.py at 2019-06-27 04:32:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.66 Mbit/s
95th percentile per-packet one-way delay: 93.422 ms
Loss rate: 3.83%
-- Flow 1:
Average throughput: 94.66 Mbit/s
95th percentile per-packet one-way delay: 93.422 ms
Loss rate: 3.83%
```

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

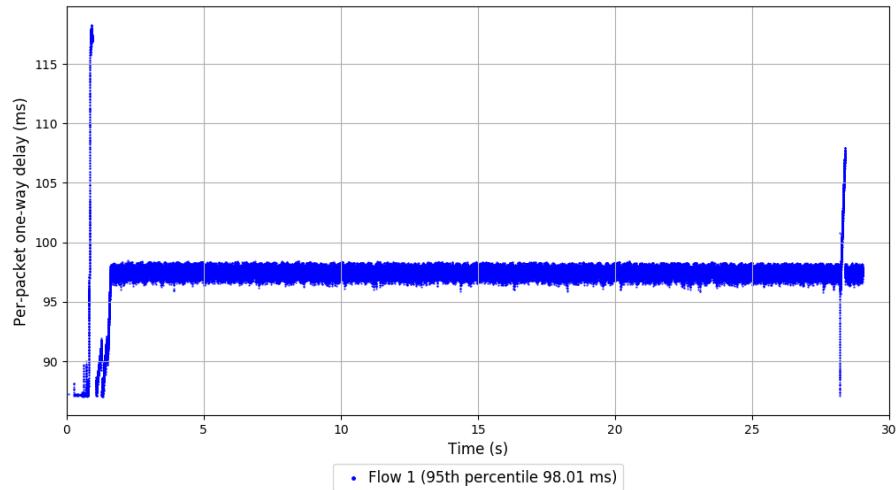
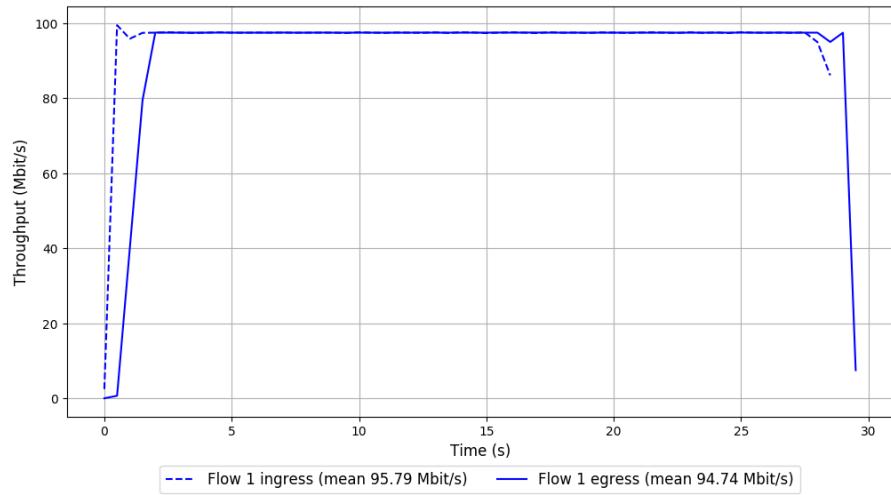


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 02:52:59
End at: 2019-06-27 02:53:29
Local clock offset: -4.16 ms
Remote clock offset: 24.113 ms

# Below is generated by plot.py at 2019-06-27 04:32:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 98.010 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 98.010 ms
Loss rate: 1.06%
```

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

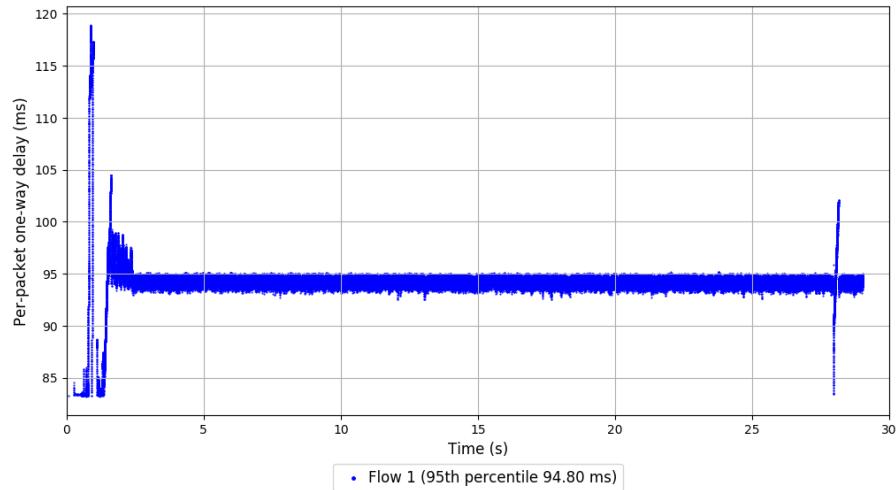
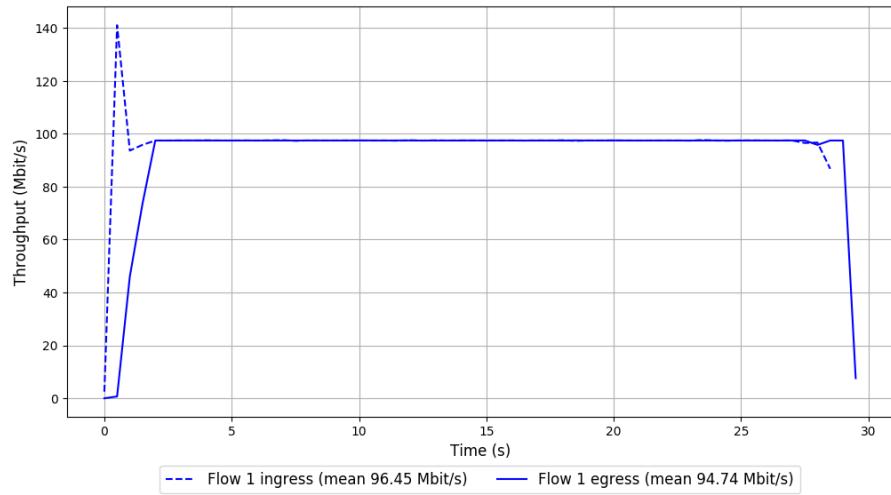


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 03:18:46
End at: 2019-06-27 03:19:16
Local clock offset: -3.999 ms
Remote clock offset: 25.178 ms

# Below is generated by plot.py at 2019-06-27 04:33:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 94.803 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 94.803 ms
Loss rate: 1.73%
```

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

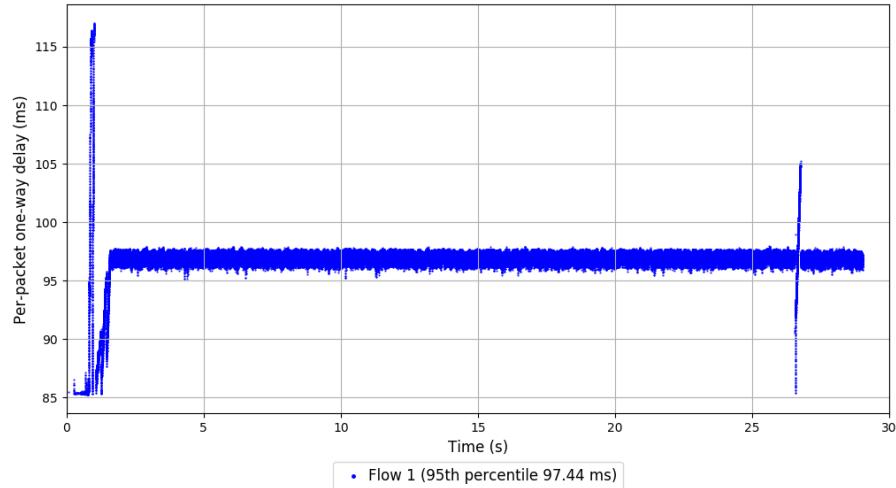
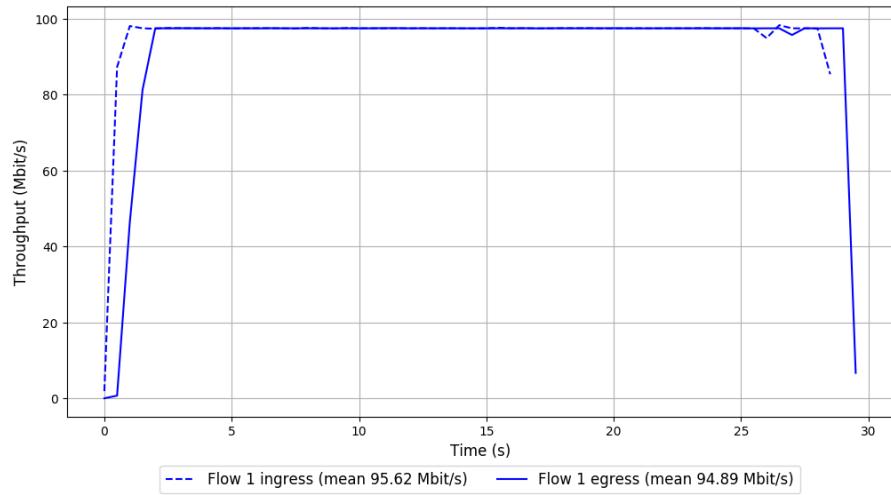


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 03:44:32
End at: 2019-06-27 03:45:02
Local clock offset: -5.319 ms
Remote clock offset: 30.694 ms

# Below is generated by plot.py at 2019-06-27 04:33:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.89 Mbit/s
95th percentile per-packet one-way delay: 97.435 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 94.89 Mbit/s
95th percentile per-packet one-way delay: 97.435 ms
Loss rate: 0.72%
```

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

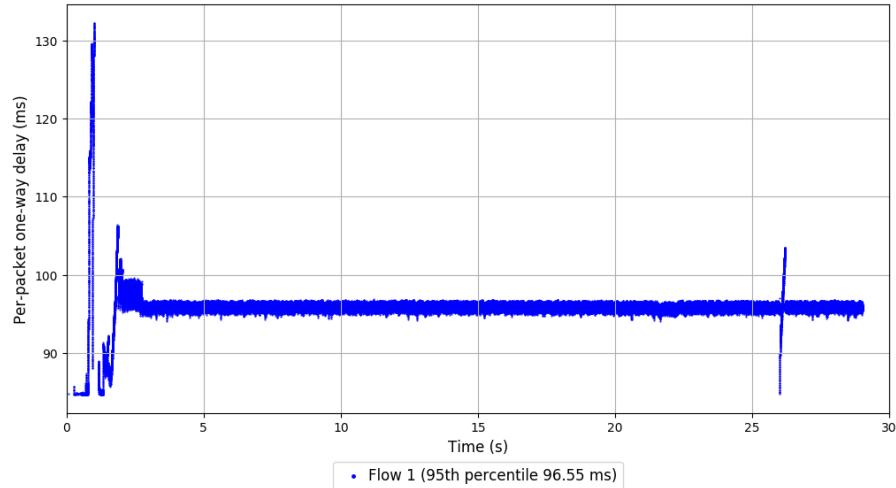
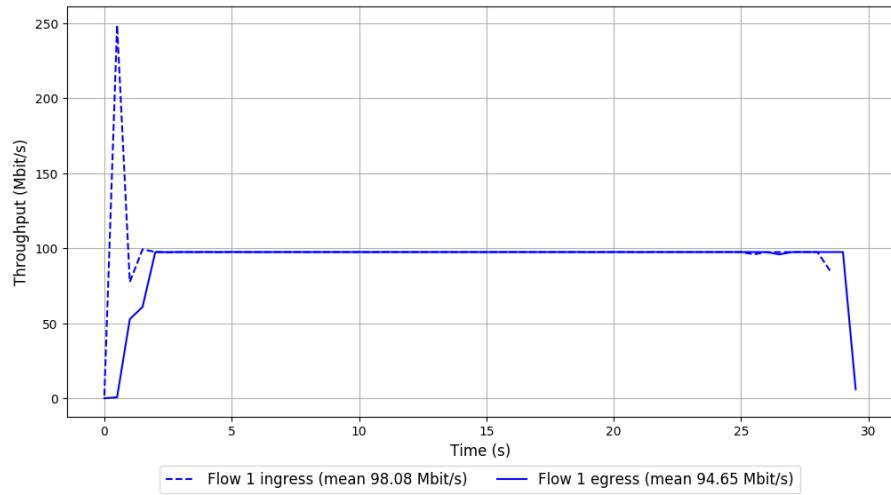


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 04:10:16
End at: 2019-06-27 04:10:46
Local clock offset: -6.312 ms
Remote clock offset: 32.91 ms

# Below is generated by plot.py at 2019-06-27 04:33:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.65 Mbit/s
95th percentile per-packet one-way delay: 96.547 ms
Loss rate: 3.46%
-- Flow 1:
Average throughput: 94.65 Mbit/s
95th percentile per-packet one-way delay: 96.547 ms
Loss rate: 3.46%
```

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

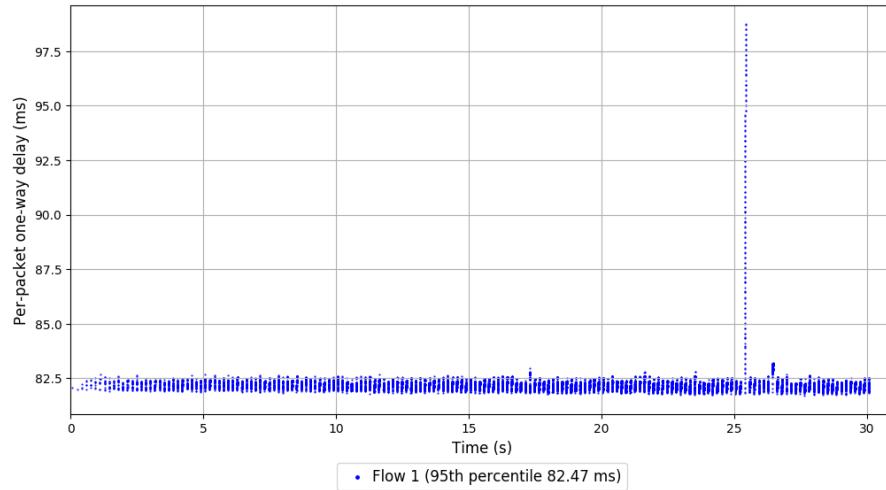
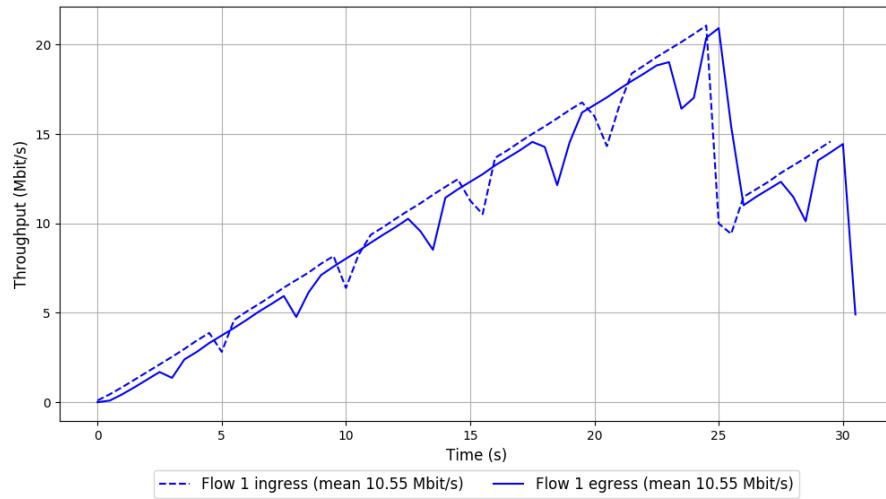


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-06-27 02:24:49
End at: 2019-06-27 02:25:19
Local clock offset: -2.85 ms
Remote clock offset: 18.174 ms

# Below is generated by plot.py at 2019-06-27 04:33:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.55 Mbit/s
95th percentile per-packet one-way delay: 82.471 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.55 Mbit/s
95th percentile per-packet one-way delay: 82.471 ms
Loss rate: 0.00%
```

## Run 1: Report of LEDBAT — Data Link

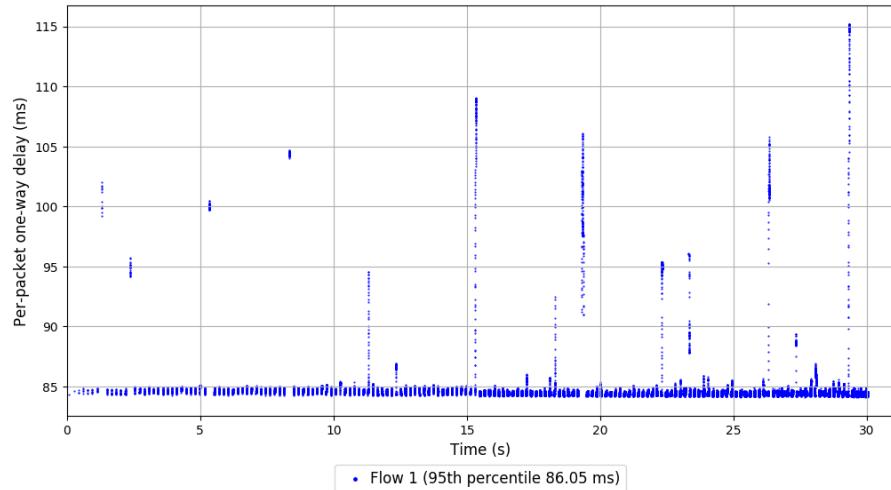
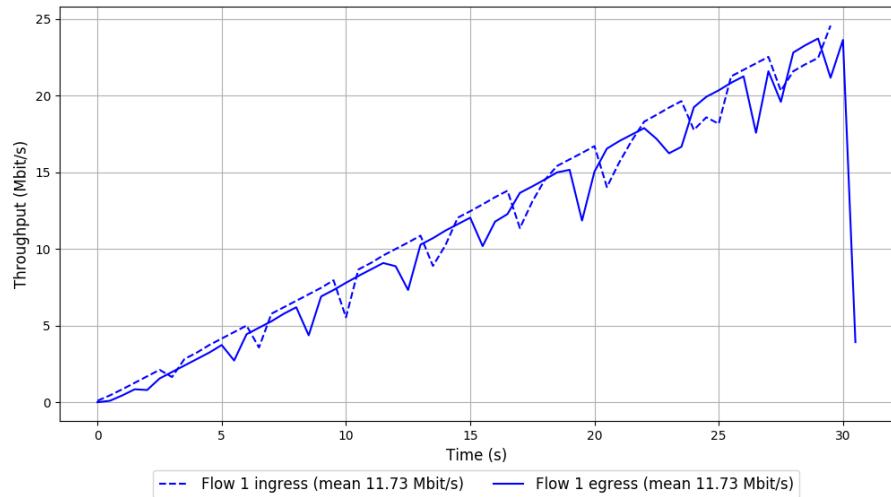


Run 2: Statistics of LEDBAT

```
Start at: 2019-06-27 02:50:38
End at: 2019-06-27 02:51:08
Local clock offset: -3.08 ms
Remote clock offset: 22.617 ms

# Below is generated by plot.py at 2019-06-27 04:33:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.73 Mbit/s
95th percentile per-packet one-way delay: 86.054 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.73 Mbit/s
95th percentile per-packet one-way delay: 86.054 ms
Loss rate: 0.00%
```

## Run 2: Report of LEDBAT — Data Link

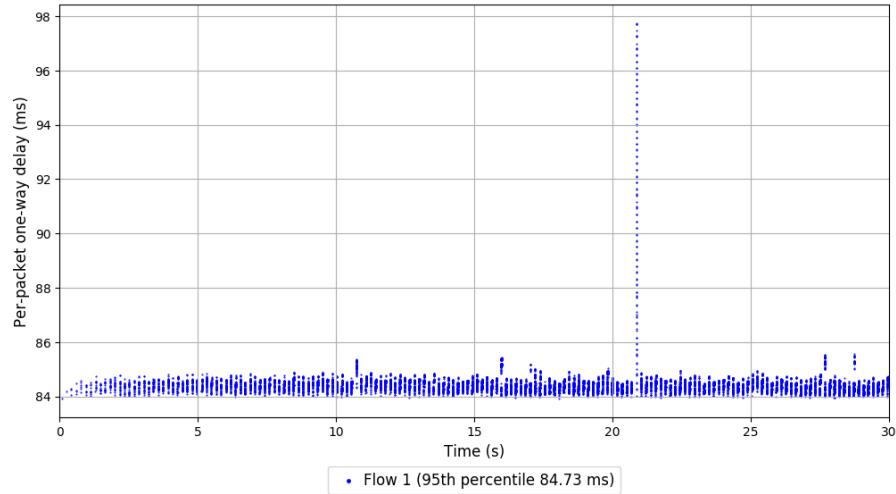
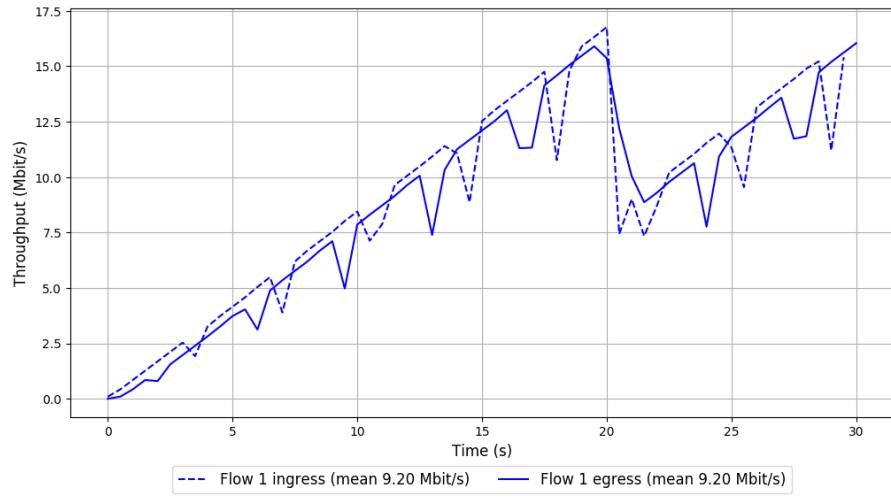


Run 3: Statistics of LEDBAT

```
Start at: 2019-06-27 03:16:26
End at: 2019-06-27 03:16:56
Local clock offset: -4.041 ms
Remote clock offset: 26.045 ms

# Below is generated by plot.py at 2019-06-27 04:33:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.20 Mbit/s
95th percentile per-packet one-way delay: 84.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.20 Mbit/s
95th percentile per-packet one-way delay: 84.727 ms
Loss rate: 0.00%
```

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

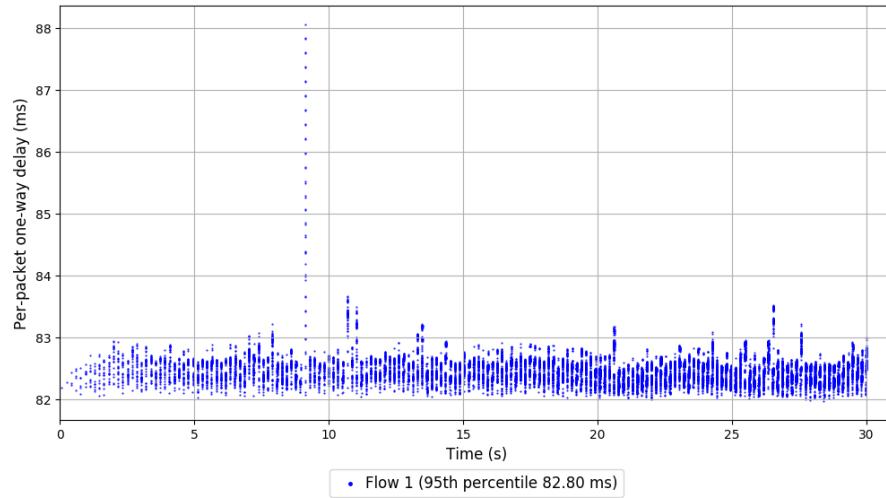
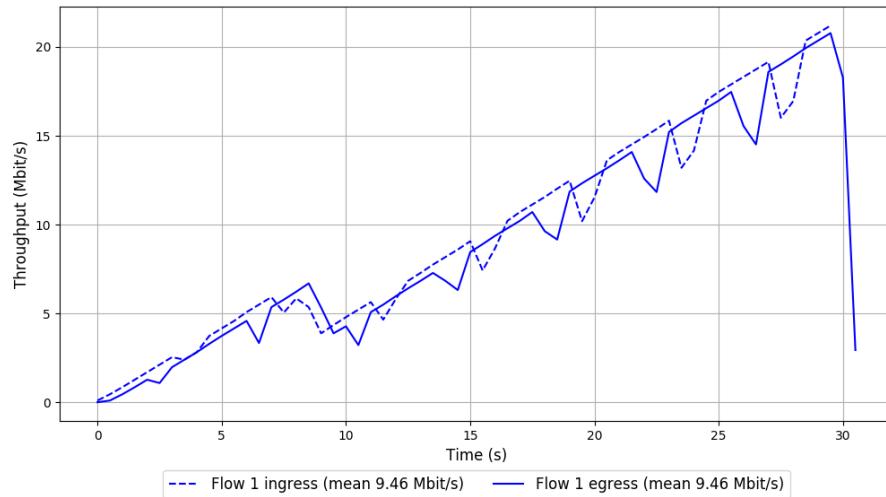


Run 4: Statistics of LEDBAT

```
Start at: 2019-06-27 03:42:12
End at: 2019-06-27 03:42:42
Local clock offset: -4.638 ms
Remote clock offset: 28.114 ms

# Below is generated by plot.py at 2019-06-27 04:33:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.46 Mbit/s
95th percentile per-packet one-way delay: 82.802 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.46 Mbit/s
95th percentile per-packet one-way delay: 82.802 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

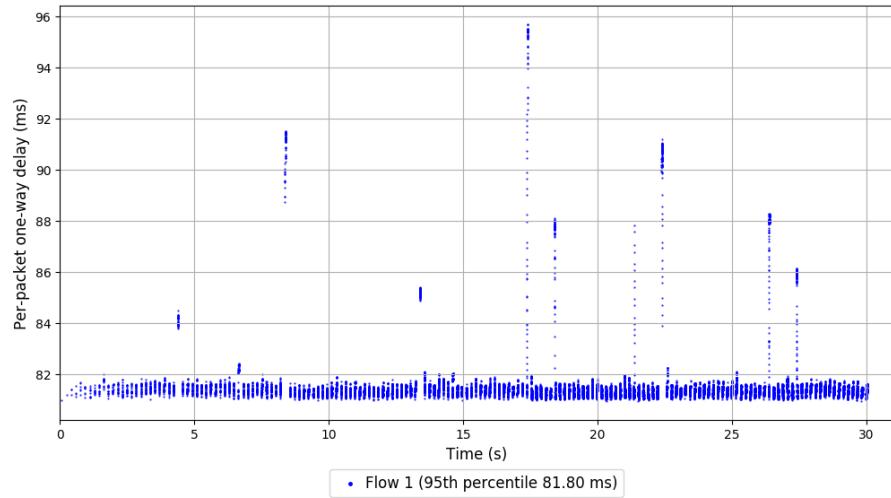
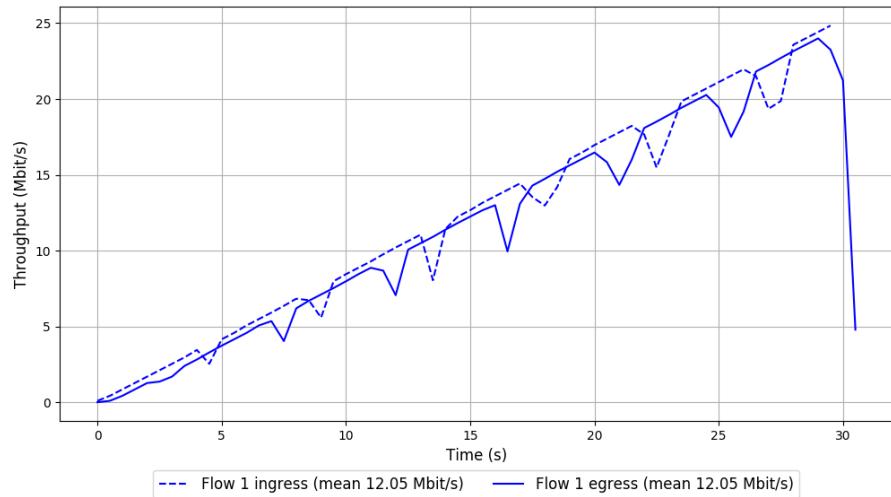


Run 5: Statistics of LEDBAT

```
Start at: 2019-06-27 04:07:56
End at: 2019-06-27 04:08:26
Local clock offset: -6.212 ms
Remote clock offset: 31.265 ms

# Below is generated by plot.py at 2019-06-27 04:33:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 81.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 81.804 ms
Loss rate: 0.00%
```

## Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 02:20:10

End at: 2019-06-27 02:20:40

Local clock offset: -1.055 ms

Remote clock offset: 17.474 ms

Run 1: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 02:45:59

End at: 2019-06-27 02:46:29

Local clock offset: -2.393 ms

Remote clock offset: 17.872 ms

Run 2: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 03:11:46

End at: 2019-06-27 03:12:16

Local clock offset: -4.182 ms

Remote clock offset: 21.196 ms

Run 3: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 03:37:33

End at: 2019-06-27 03:38:03

Local clock offset: -5.429 ms

Remote clock offset: 24.821 ms

Run 4: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 04:03:17

End at: 2019-06-27 04:03:47

Local clock offset: -5.923 ms

Remote clock offset: 30.996 ms

Run 5: Report of Muses\_DecisionTree — Data Link

Figure is missing

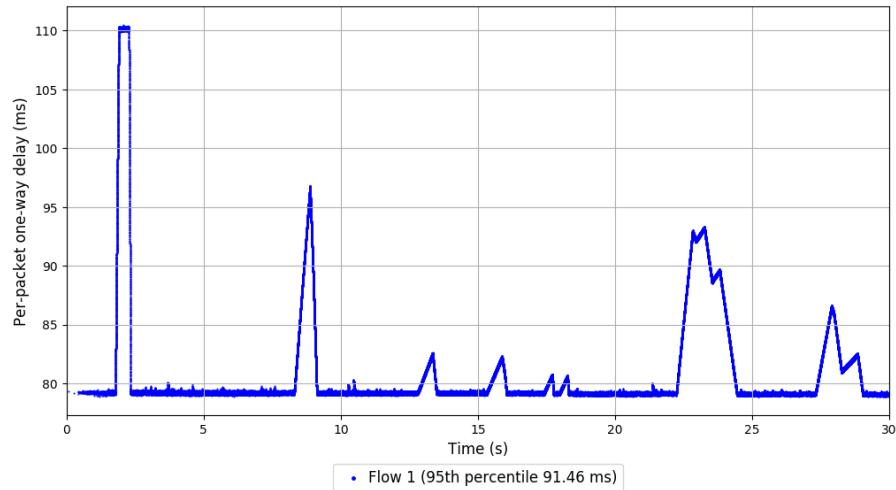
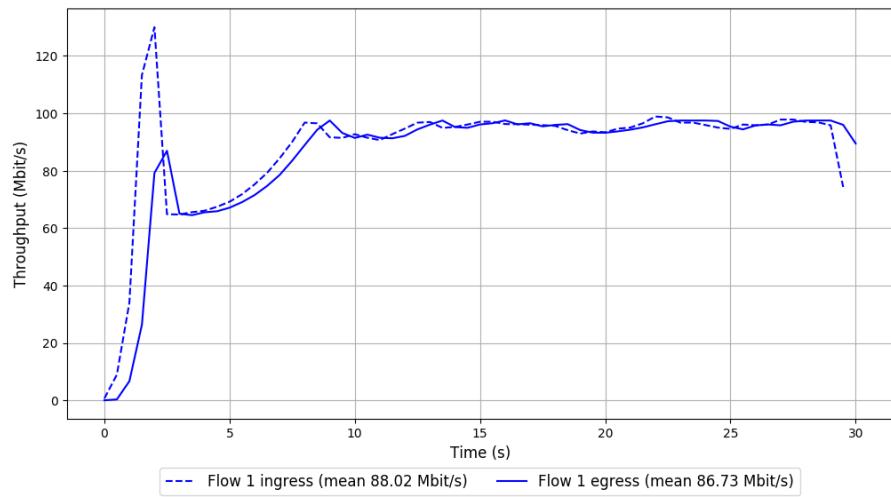
Figure is missing

Run 1: Statistics of PCC-Allegro

```
Start at: 2019-06-27 02:22:26
End at: 2019-06-27 02:22:56
Local clock offset: -2.194 ms
Remote clock offset: 15.091 ms

# Below is generated by plot.py at 2019-06-27 04:33:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.73 Mbit/s
95th percentile per-packet one-way delay: 91.463 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 86.73 Mbit/s
95th percentile per-packet one-way delay: 91.463 ms
Loss rate: 1.47%
```

Run 1: Report of PCC-Allegro — Data Link

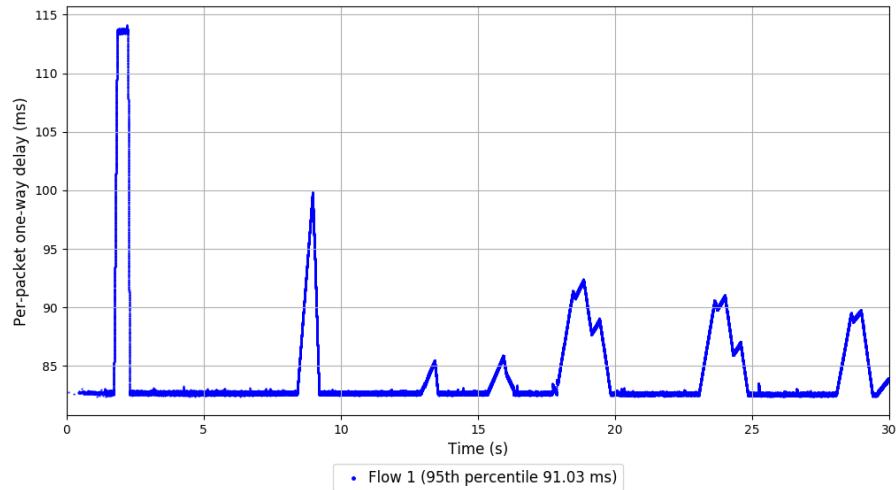
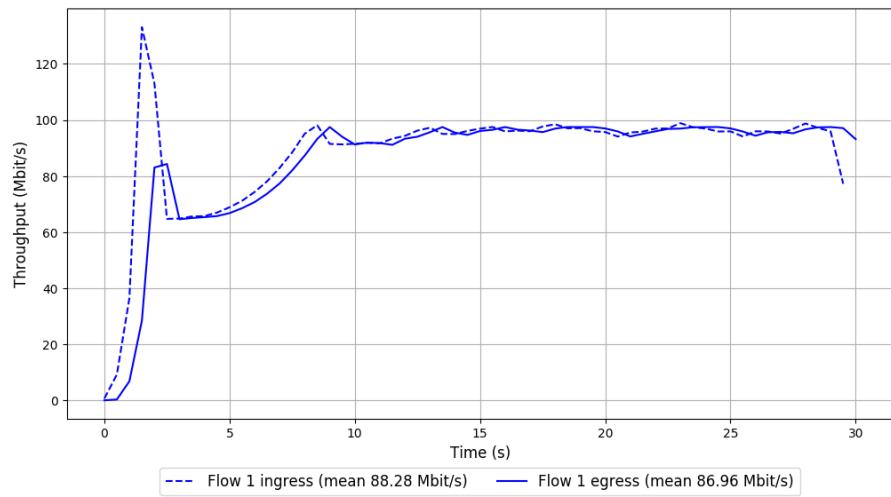


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-06-27 02:48:15
End at: 2019-06-27 02:48:45
Local clock offset: -3.024 ms
Remote clock offset: 21.256 ms

# Below is generated by plot.py at 2019-06-27 04:33:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 91.030 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 91.030 ms
Loss rate: 1.50%
```

Run 2: Report of PCC-Allegro — Data Link

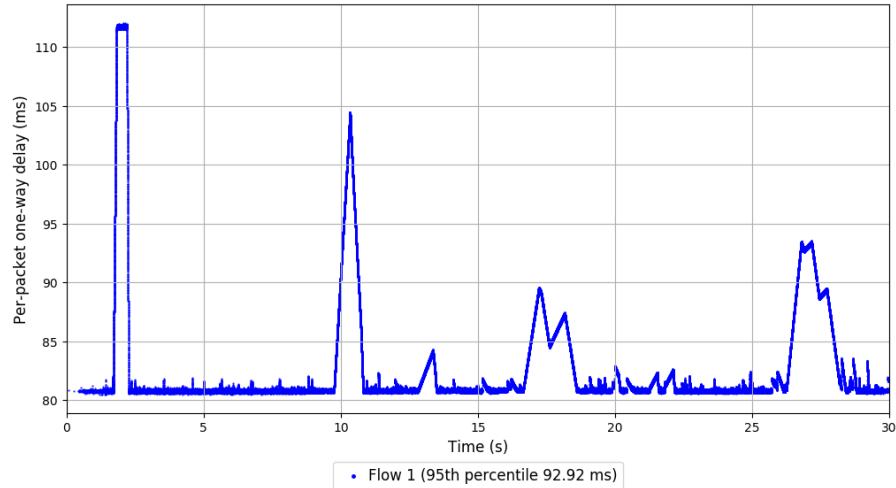
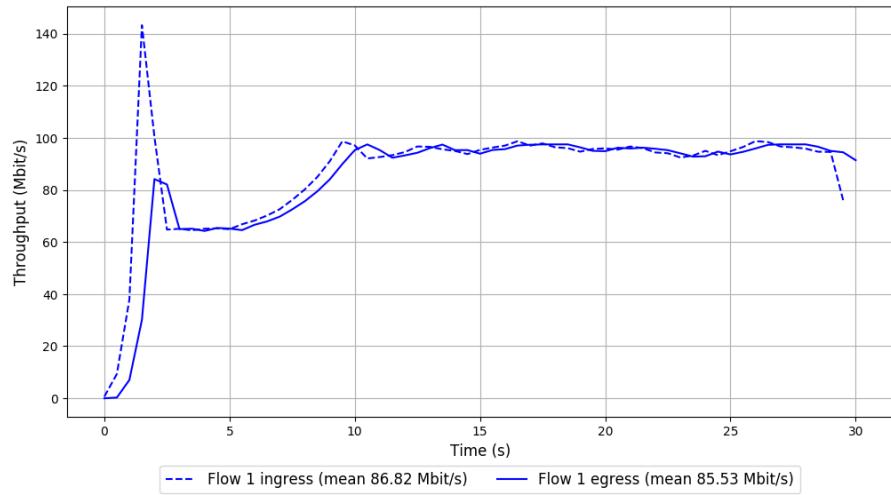


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-06-27 03:14:03
End at: 2019-06-27 03:14:33
Local clock offset: -4.974 ms
Remote clock offset: 21.533 ms

# Below is generated by plot.py at 2019-06-27 04:33:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.53 Mbit/s
95th percentile per-packet one-way delay: 92.917 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 85.53 Mbit/s
95th percentile per-packet one-way delay: 92.917 ms
Loss rate: 1.49%
```

Run 3: Report of PCC-Allegro — Data Link

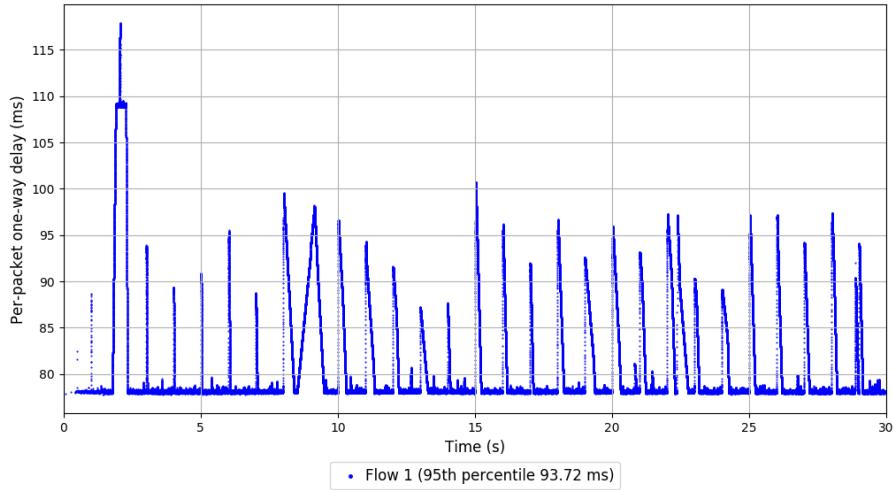
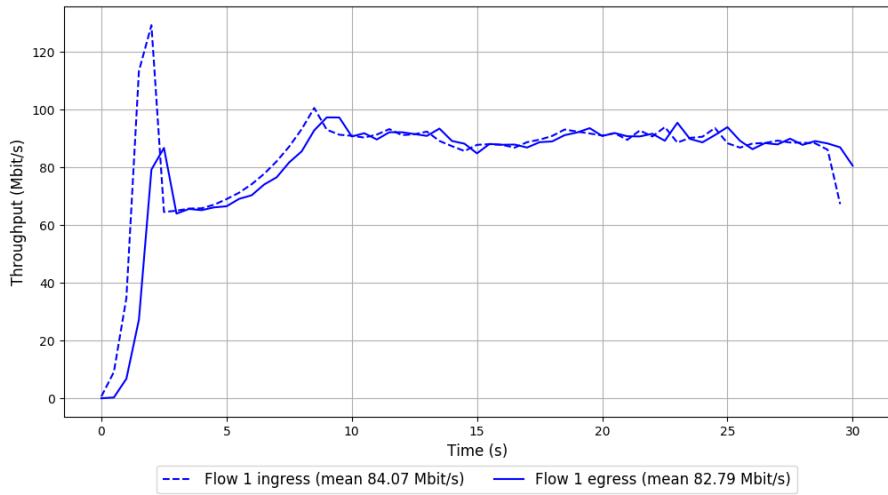


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-06-27 03:39:50
End at: 2019-06-27 03:40:20
Local clock offset: -4.893 ms
Remote clock offset: 24.03 ms

# Below is generated by plot.py at 2019-06-27 04:34:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.79 Mbit/s
95th percentile per-packet one-way delay: 93.716 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 82.79 Mbit/s
95th percentile per-packet one-way delay: 93.716 ms
Loss rate: 1.52%
```

Run 4: Report of PCC-Allegro — Data Link

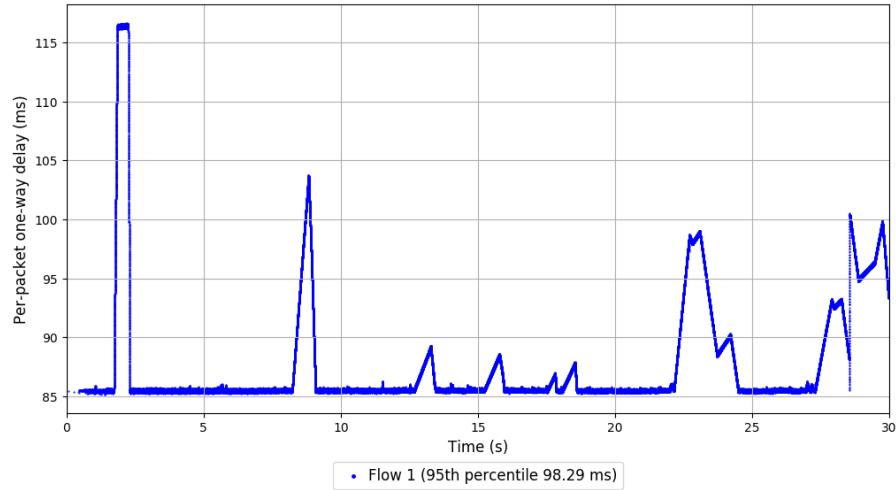
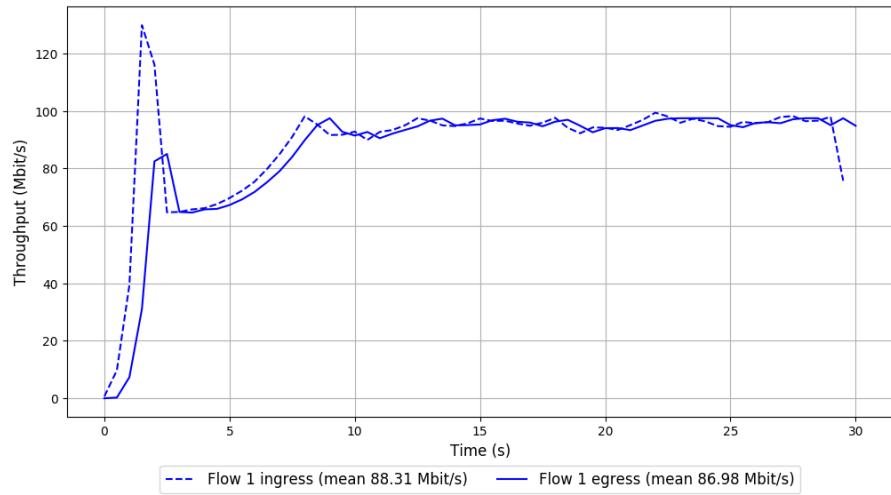


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-06-27 04:05:33
End at: 2019-06-27 04:06:03
Local clock offset: -6.725 ms
Remote clock offset: 32.505 ms

# Below is generated by plot.py at 2019-06-27 04:34:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.98 Mbit/s
95th percentile per-packet one-way delay: 98.288 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 86.98 Mbit/s
95th percentile per-packet one-way delay: 98.288 ms
Loss rate: 1.49%
```

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

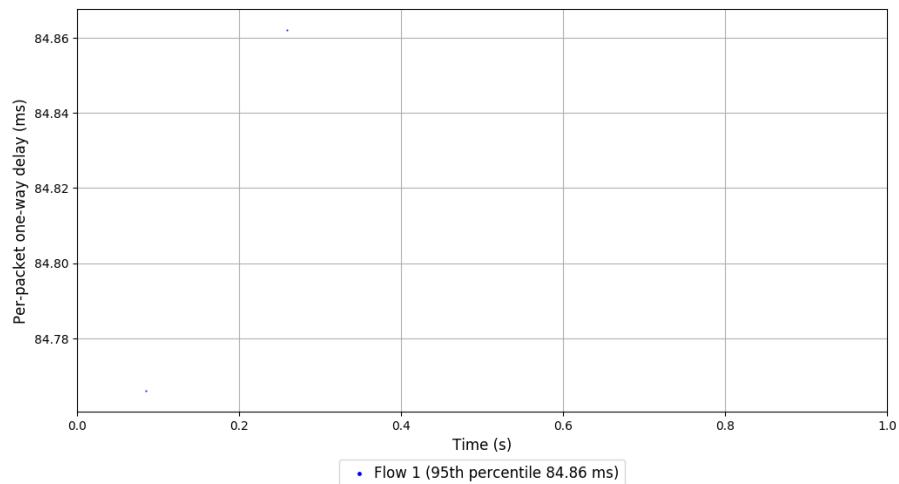
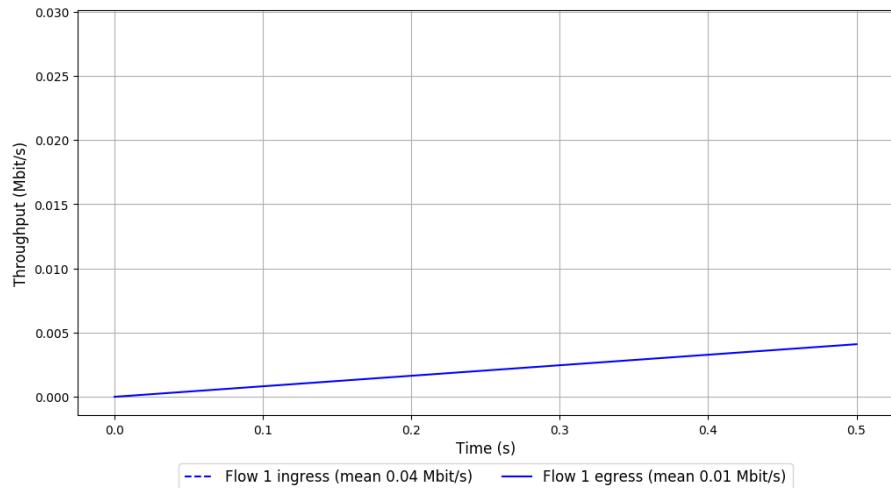
Start at: 2019-06-27 02:17:50

End at: 2019-06-27 02:18:20

Local clock offset: 0.442 ms

Remote clock offset: 19.632 ms

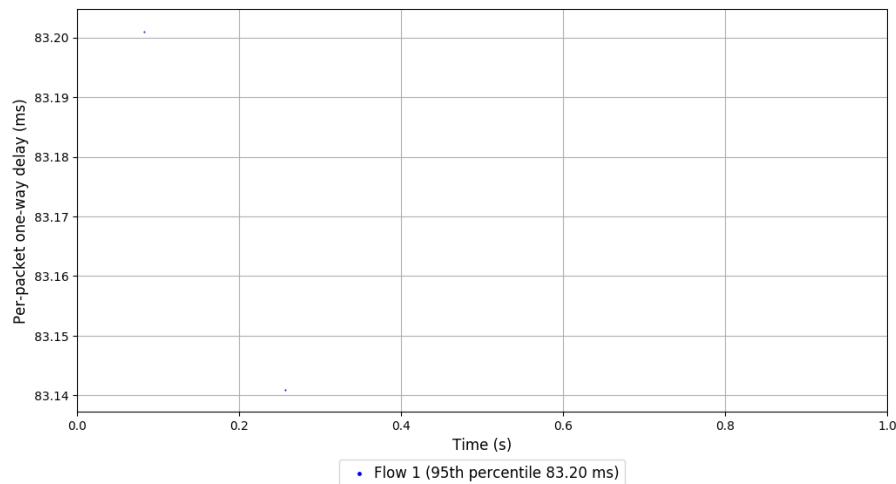
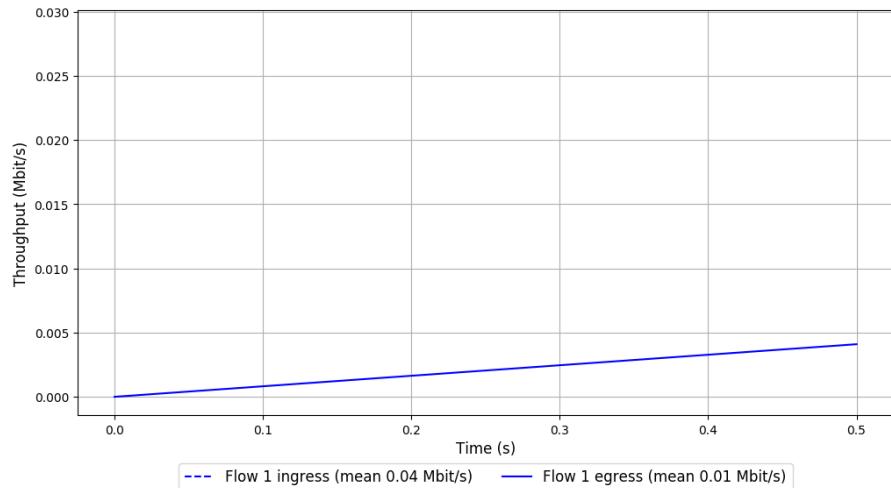
Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-06-27 02:43:40  
End at: 2019-06-27 02:44:10  
Local clock offset: -2.772 ms  
Remote clock offset: 20.628 ms

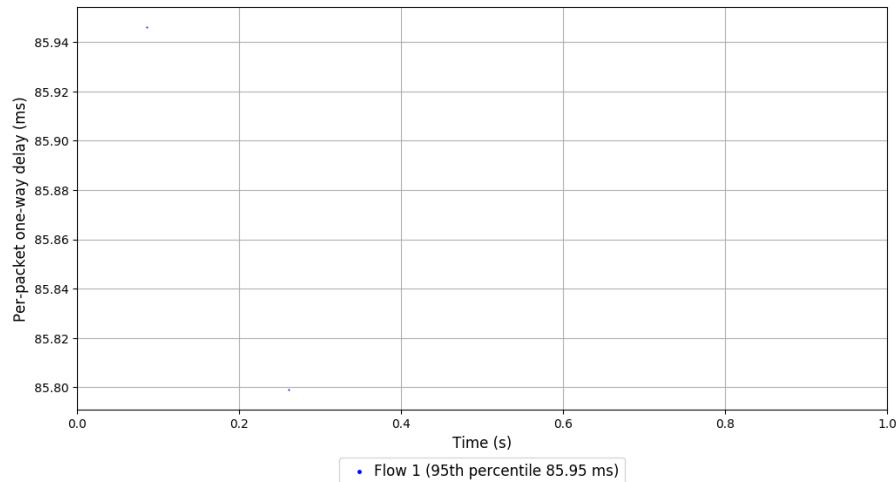
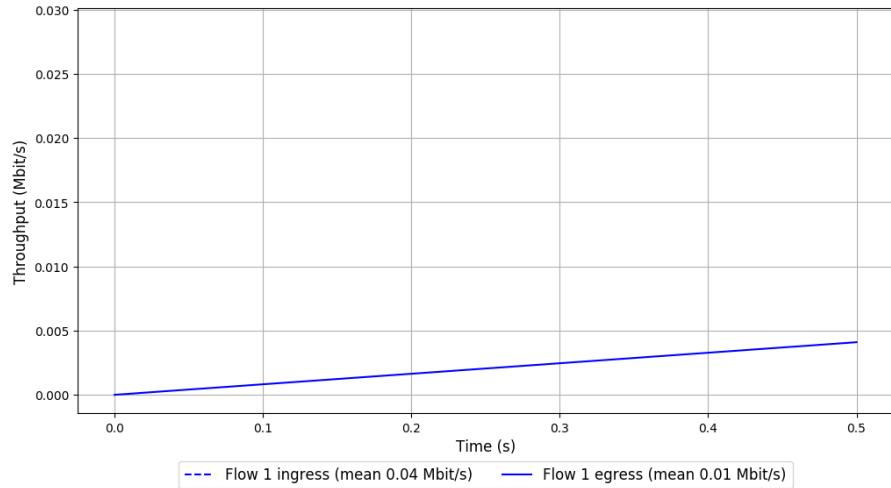
## Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-06-27 03:09:27  
End at: 2019-06-27 03:09:57  
Local clock offset: -5.061 ms  
Remote clock offset: 25.102 ms

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



Run 4: Statistics of PCC-Expr

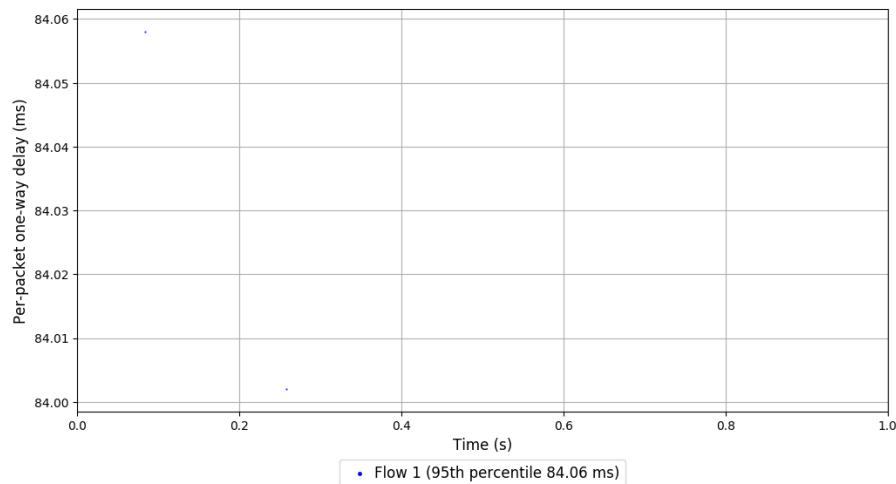
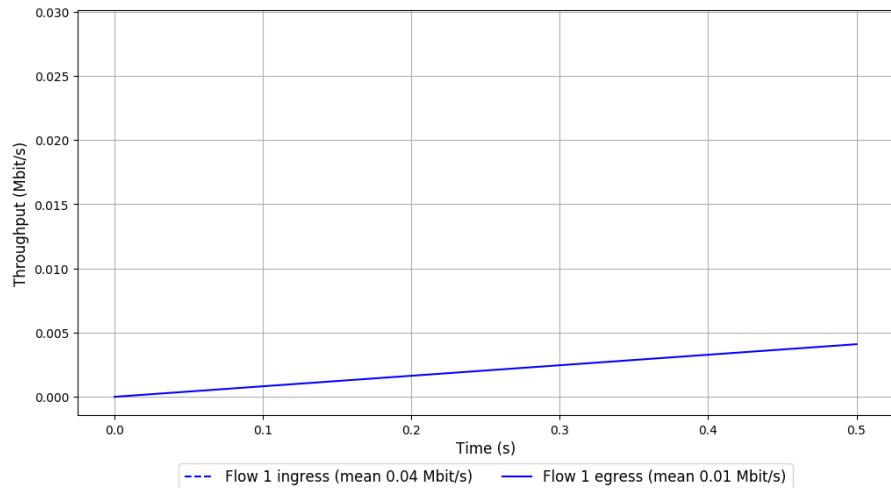
Start at: 2019-06-27 03:35:14

End at: 2019-06-27 03:35:44

Local clock offset: -4.742 ms

Remote clock offset: 28.382 ms

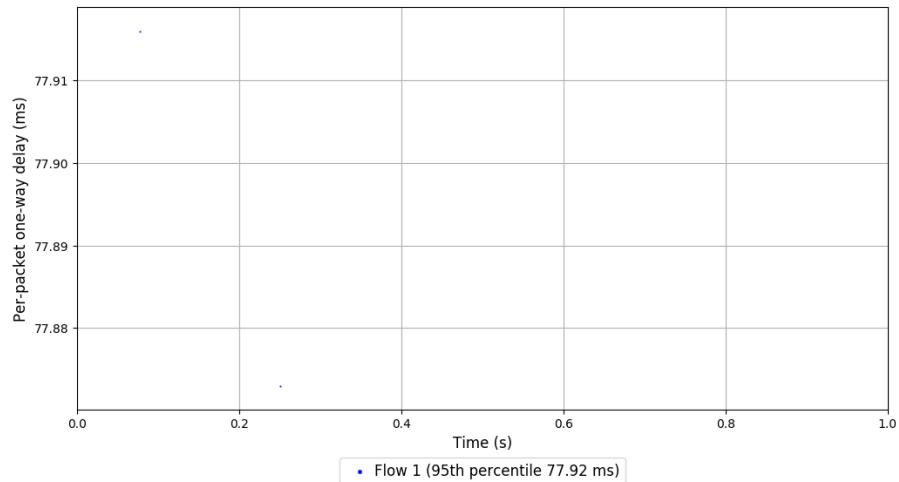
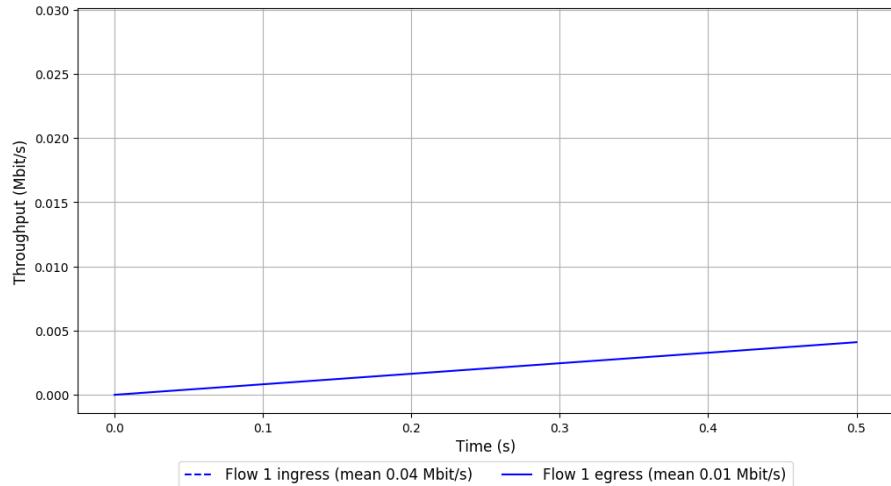
Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-06-27 04:00:57  
End at: 2019-06-27 04:01:27  
Local clock offset: -6.0 ms  
Remote clock offset: 26.641 ms

Run 5: Report of PCC-Expr — Data Link

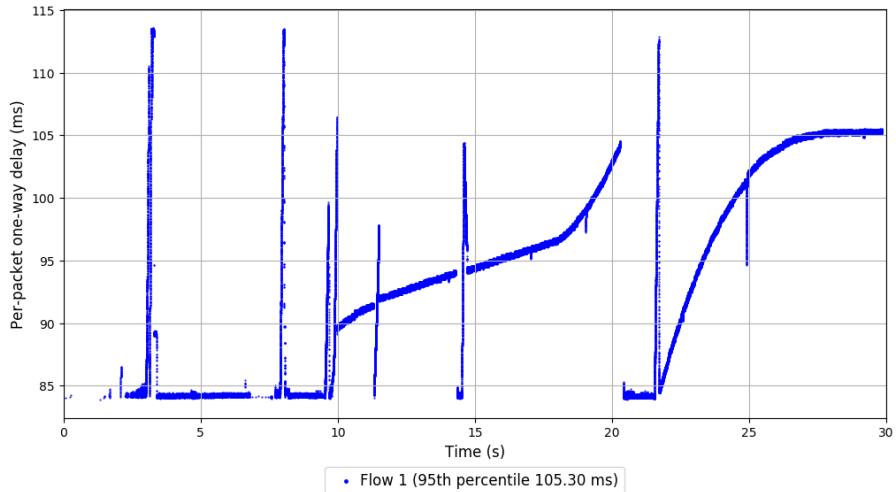
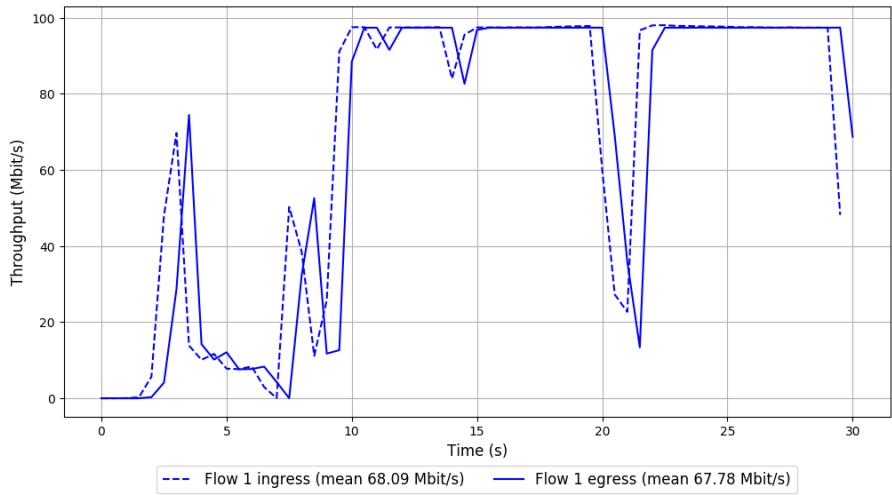


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-06-27 02:28:22
End at: 2019-06-27 02:28:52
Local clock offset: -2.697 ms
Remote clock offset: 19.839 ms

# Below is generated by plot.py at 2019-06-27 04:34:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.78 Mbit/s
95th percentile per-packet one-way delay: 105.297 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 67.78 Mbit/s
95th percentile per-packet one-way delay: 105.297 ms
Loss rate: 0.38%
```

Run 1: Report of QUIC Cubic — Data Link

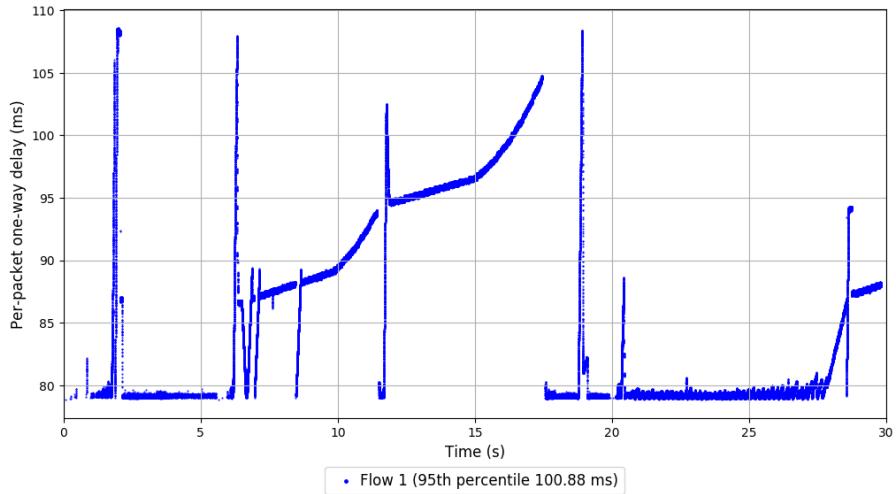
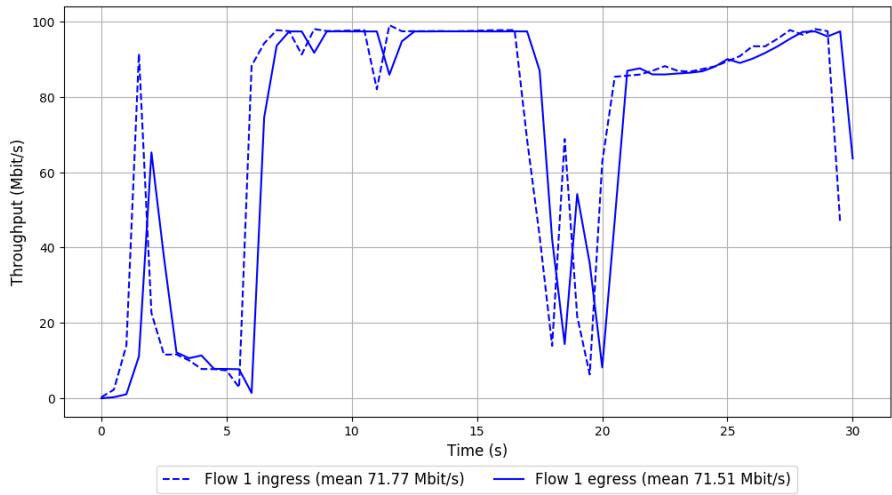


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-06-27 02:54:11
End at: 2019-06-27 02:54:41
Local clock offset: -3.535 ms
Remote clock offset: 17.856 ms

# Below is generated by plot.py at 2019-06-27 04:34:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.51 Mbit/s
95th percentile per-packet one-way delay: 100.881 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 71.51 Mbit/s
95th percentile per-packet one-way delay: 100.881 ms
Loss rate: 0.33%
```

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

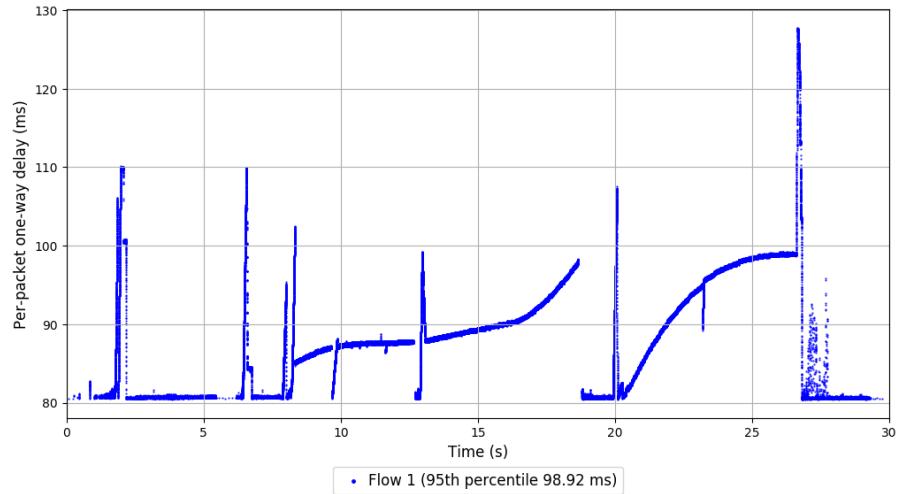
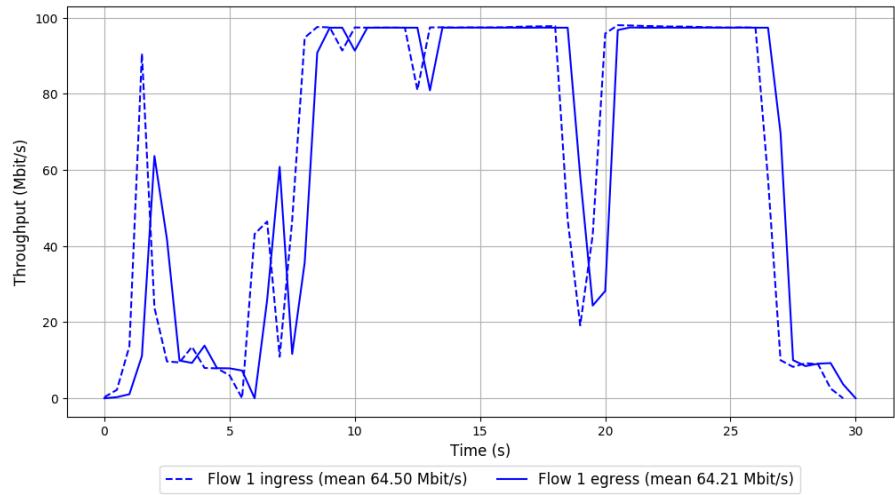


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-06-27 03:19:58
End at: 2019-06-27 03:20:28
Local clock offset: -5.134 ms
Remote clock offset: 21.377 ms

# Below is generated by plot.py at 2019-06-27 04:34:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.21 Mbit/s
95th percentile per-packet one-way delay: 98.918 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 64.21 Mbit/s
95th percentile per-packet one-way delay: 98.918 ms
Loss rate: 0.45%
```

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

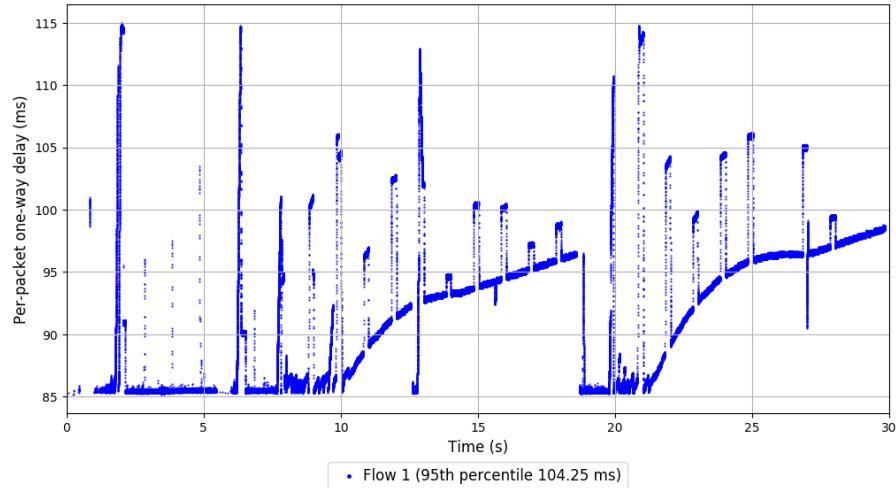
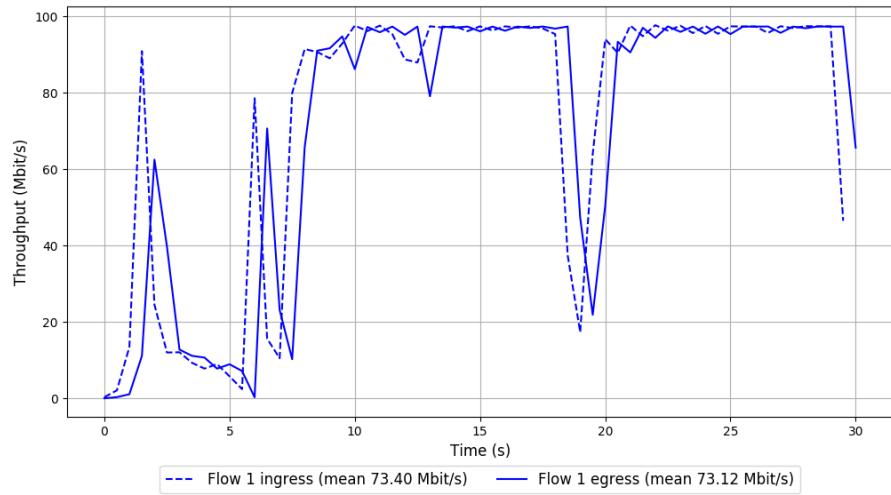


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-06-27 03:45:45
End at: 2019-06-27 03:46:15
Local clock offset: -5.371 ms
Remote clock offset: 30.973 ms

# Below is generated by plot.py at 2019-06-27 04:34:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.12 Mbit/s
95th percentile per-packet one-way delay: 104.253 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 73.12 Mbit/s
95th percentile per-packet one-way delay: 104.253 ms
Loss rate: 0.34%
```

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

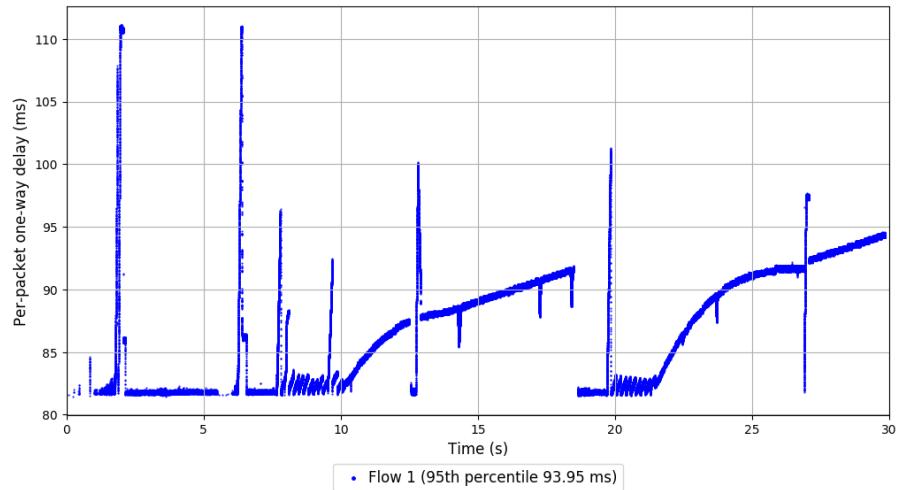
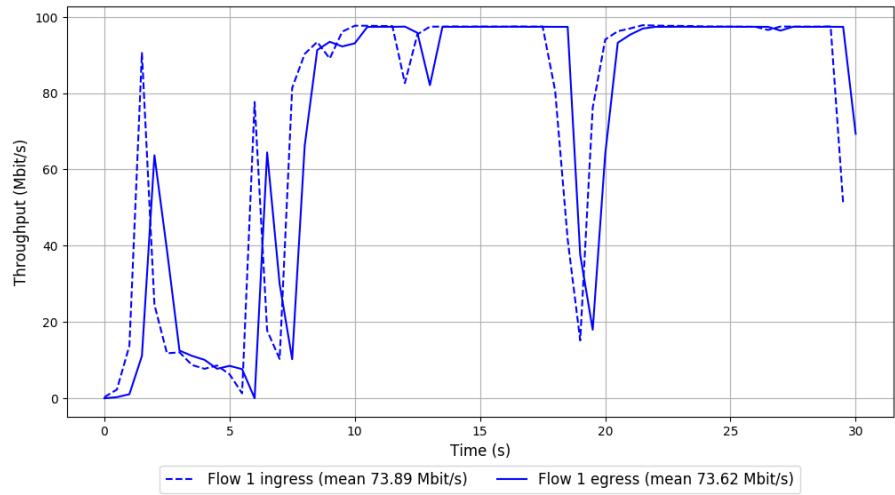


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-06-27 04:11:29
End at: 2019-06-27 04:11:59
Local clock offset: -6.841 ms
Remote clock offset: 29.228 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.62 Mbit/s
95th percentile per-packet one-way delay: 93.954 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 73.62 Mbit/s
95th percentile per-packet one-way delay: 93.954 ms
Loss rate: 0.33%
```

Run 5: Report of QUIC Cubic — Data Link

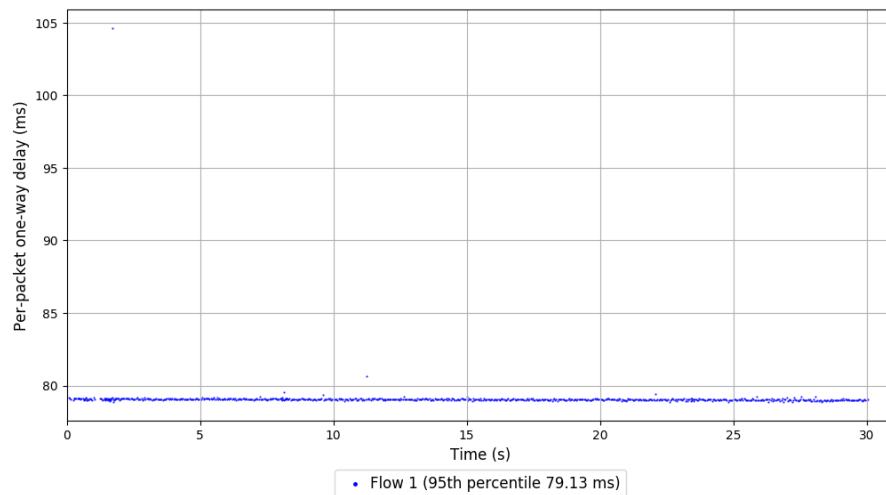
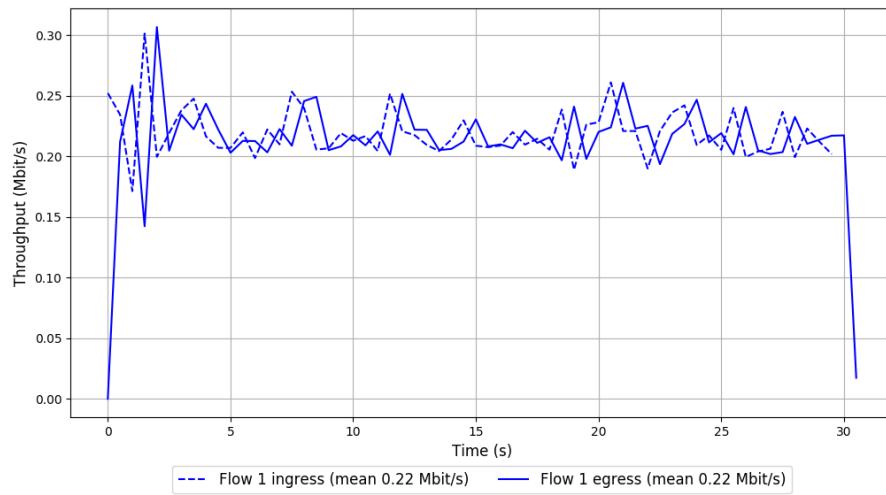


Run 1: Statistics of SCReAM

```
Start at: 2019-06-27 02:30:40
End at: 2019-06-27 02:31:10
Local clock offset: -2.791 ms
Remote clock offset: 15.101 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.132 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

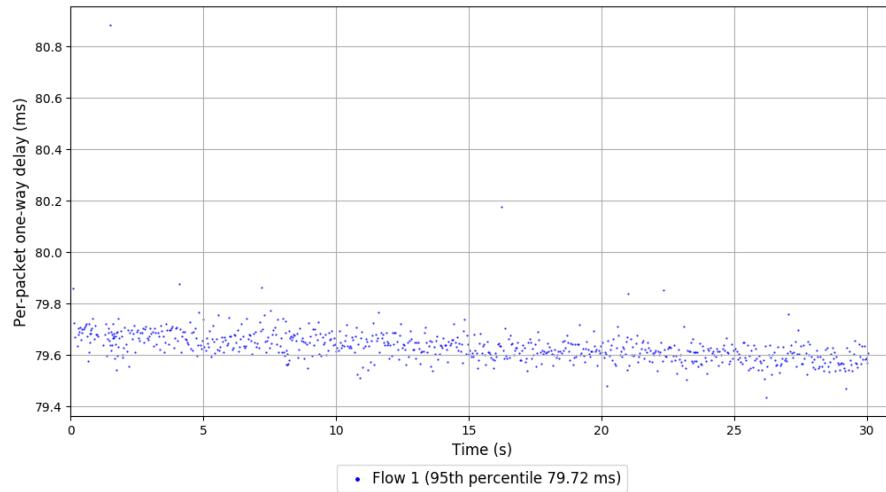
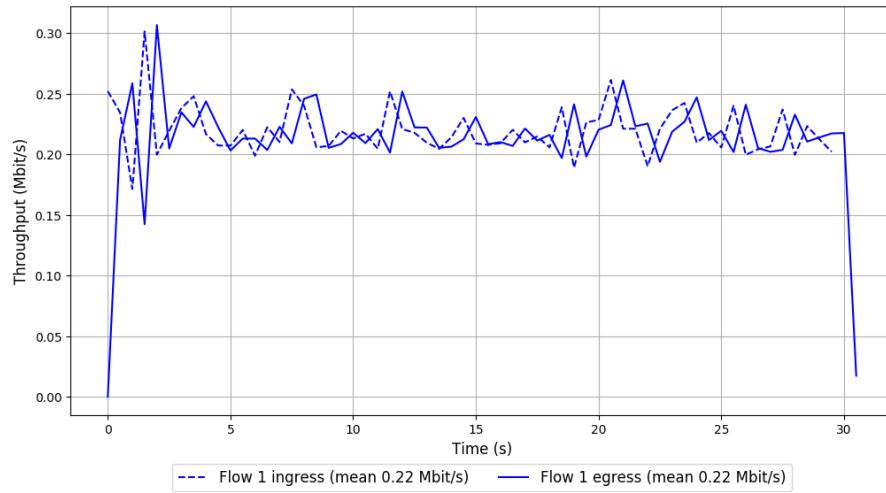


Run 2: Statistics of SCReAM

```
Start at: 2019-06-27 02:56:29
End at: 2019-06-27 02:56:59
Local clock offset: -4.689 ms
Remote clock offset: 18.255 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.715 ms
Loss rate: 0.00%
```

## Run 2: Report of SCReAM — Data Link

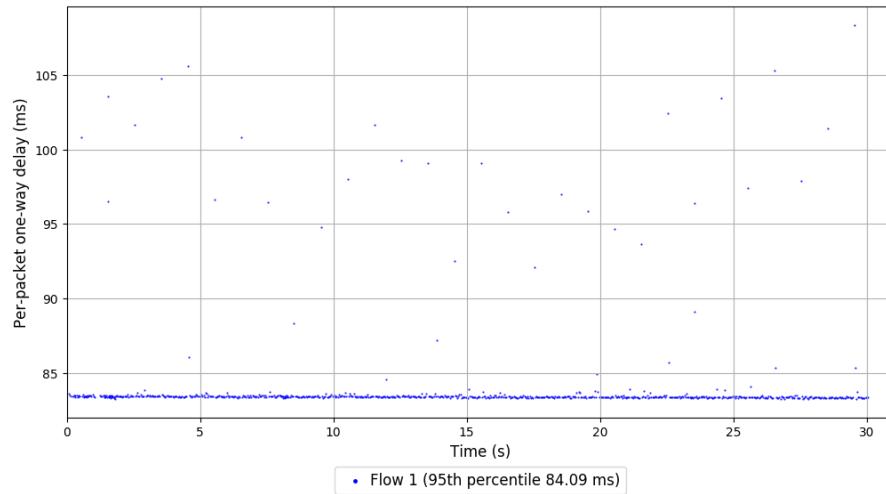
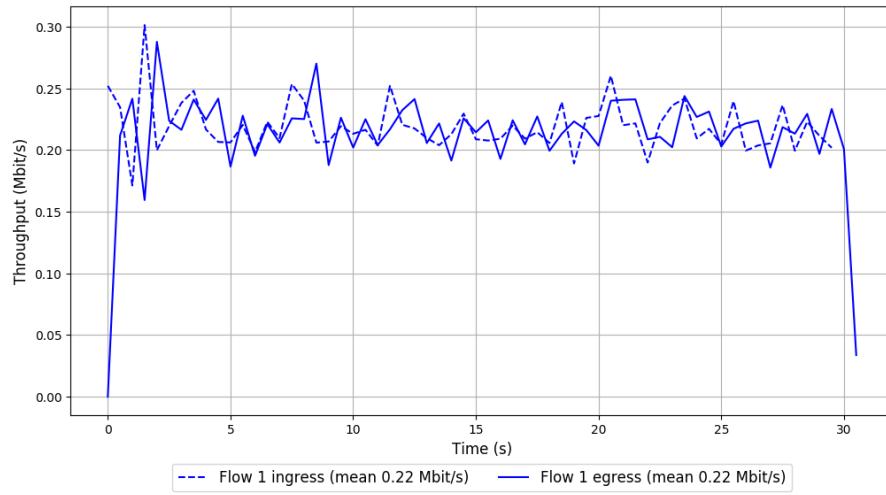


Run 3: Statistics of SCReAM

```
Start at: 2019-06-27 03:22:16
End at: 2019-06-27 03:22:46
Local clock offset: -4.34 ms
Remote clock offset: 26.773 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.089 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.089 ms
Loss rate: 0.00%
```

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

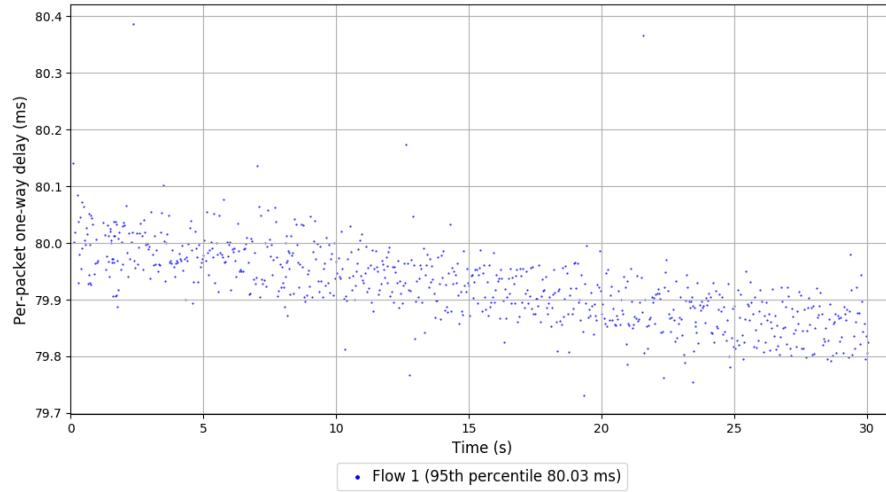
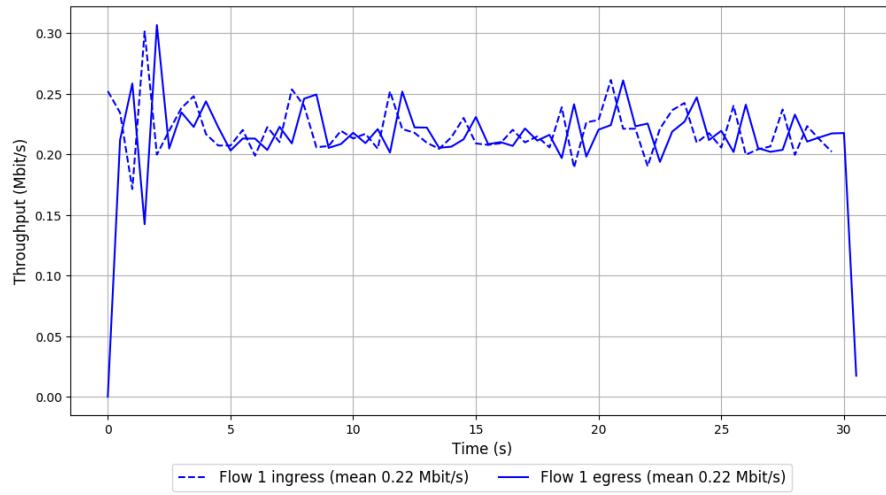


Run 4: Statistics of SCReAM

```
Start at: 2019-06-27 03:48:03
End at: 2019-06-27 03:48:33
Local clock offset: -4.435 ms
Remote clock offset: 26.038 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.033 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

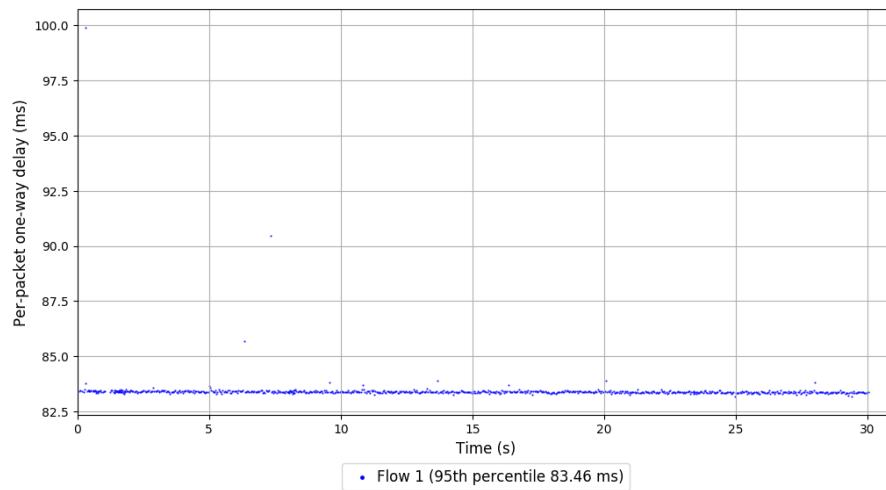
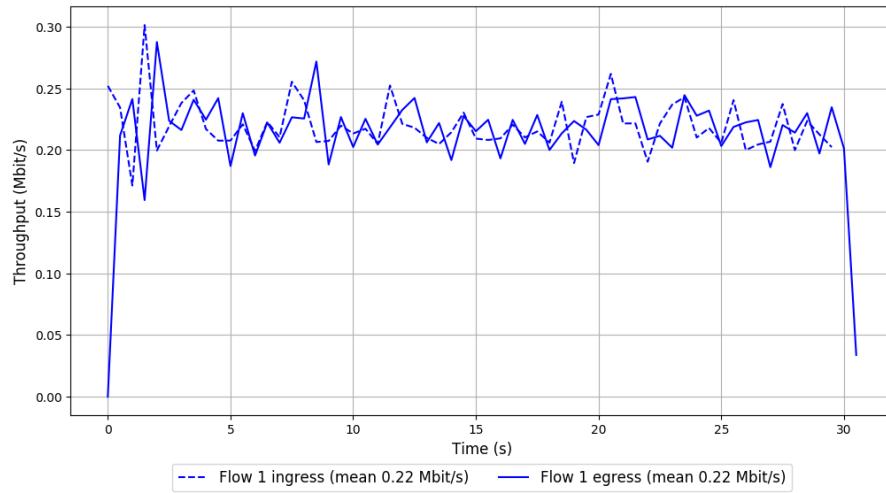


Run 5: Statistics of SCReAM

```
Start at: 2019-06-27 04:13:47
End at: 2019-06-27 04:14:17
Local clock offset: -6.271 ms
Remote clock offset: 34.327 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.463 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.463 ms
Loss rate: 0.00%
```

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

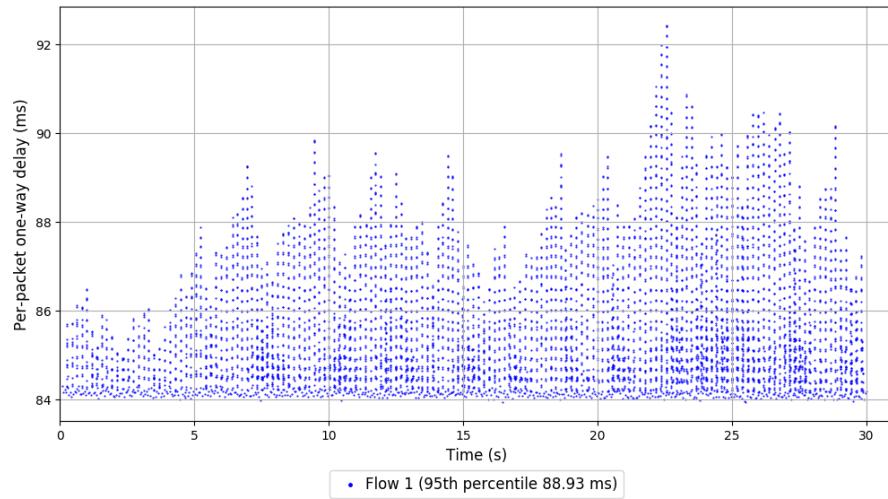
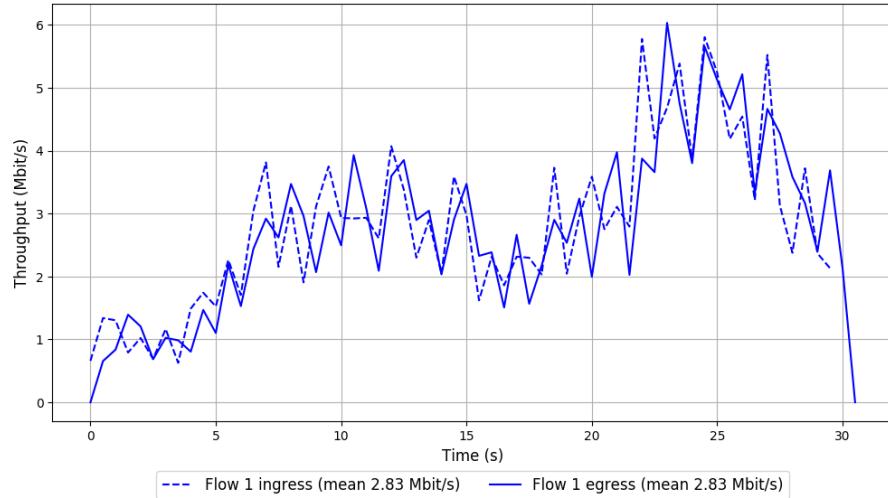


Run 1: Statistics of Sprout

```
Start at: 2019-06-27 02:31:48
End at: 2019-06-27 02:32:18
Local clock offset: -3.643 ms
Remote clock offset: 21.398 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 88.932 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 88.932 ms
Loss rate: 0.00%
```

## Run 1: Report of Sprout — Data Link

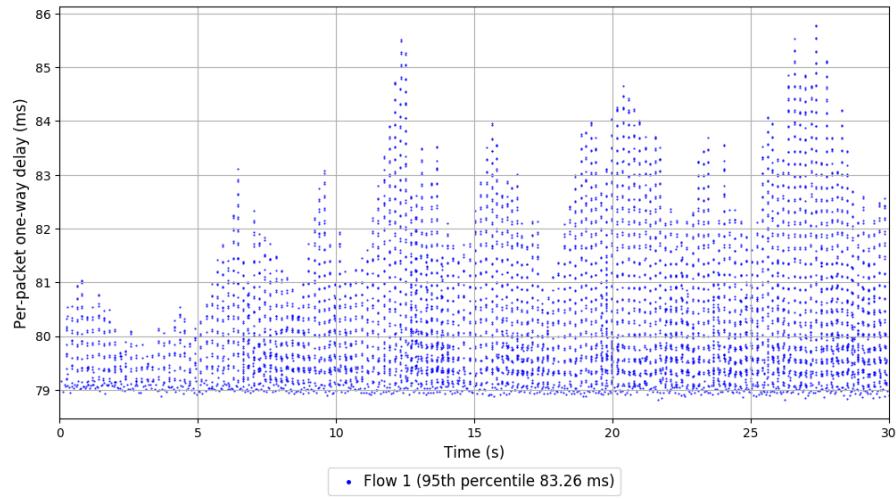
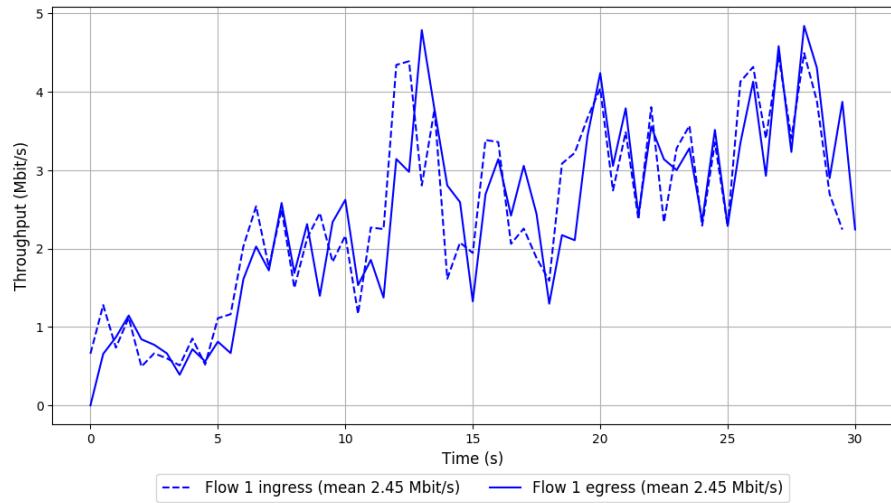


Run 2: Statistics of Sprout

```
Start at: 2019-06-27 02:57:37
End at: 2019-06-27 02:58:07
Local clock offset: -4.718 ms
Remote clock offset: 18.502 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 83.259 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 83.259 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link

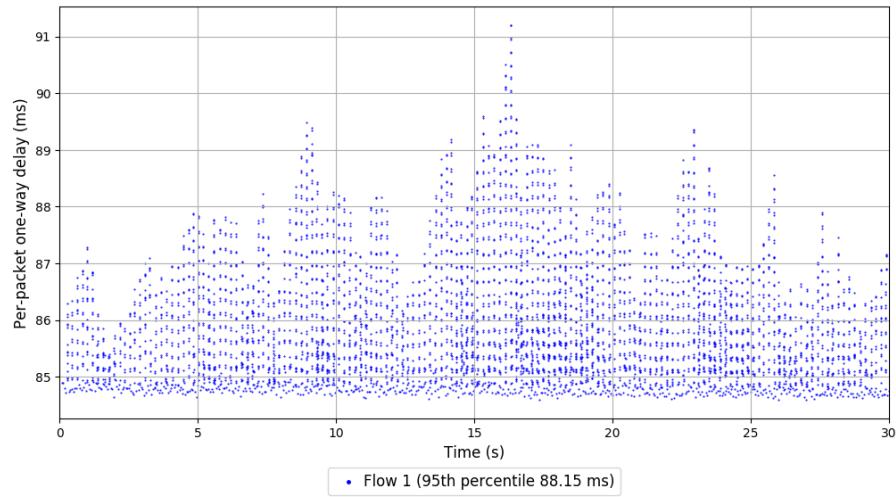
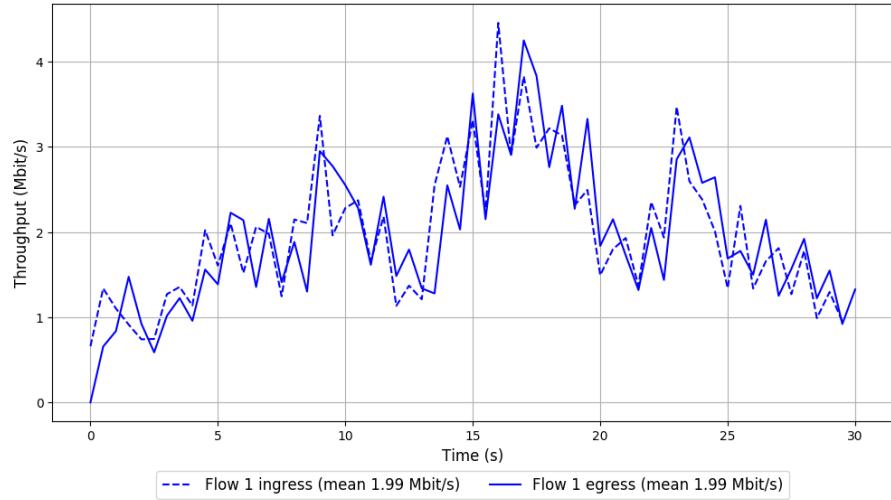


Run 3: Statistics of Sprout

```
Start at: 2019-06-27 03:23:24
End at: 2019-06-27 03:23:54
Local clock offset: -5.225 ms
Remote clock offset: 27.039 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 88.153 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 88.153 ms
Loss rate: 0.00%
```

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

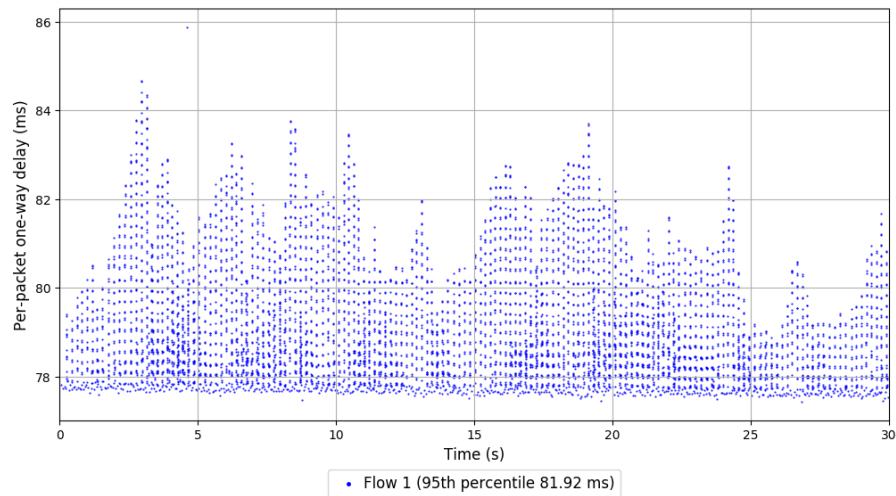
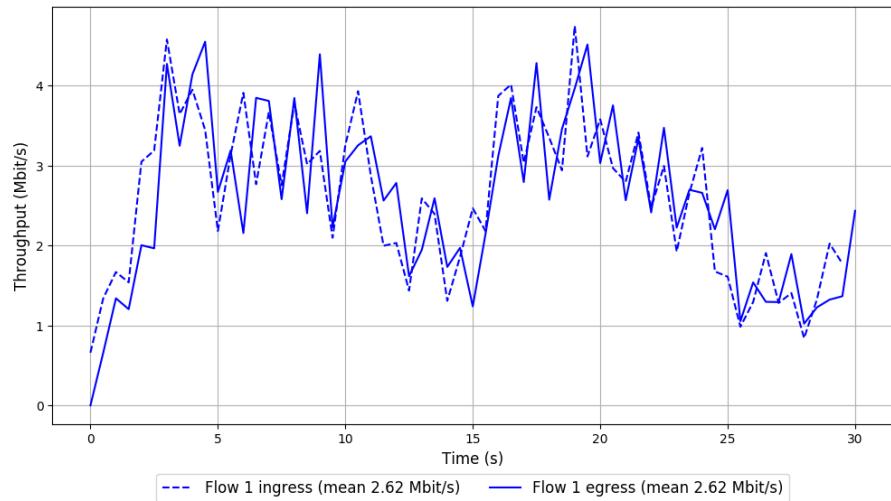


Run 4: Statistics of Sprout

```
Start at: 2019-06-27 03:49:11
End at: 2019-06-27 03:49:41
Local clock offset: -4.569 ms
Remote clock offset: 25.188 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: 81.915 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: 81.915 ms
Loss rate: 0.02%
```

## Run 4: Report of Sprout — Data Link

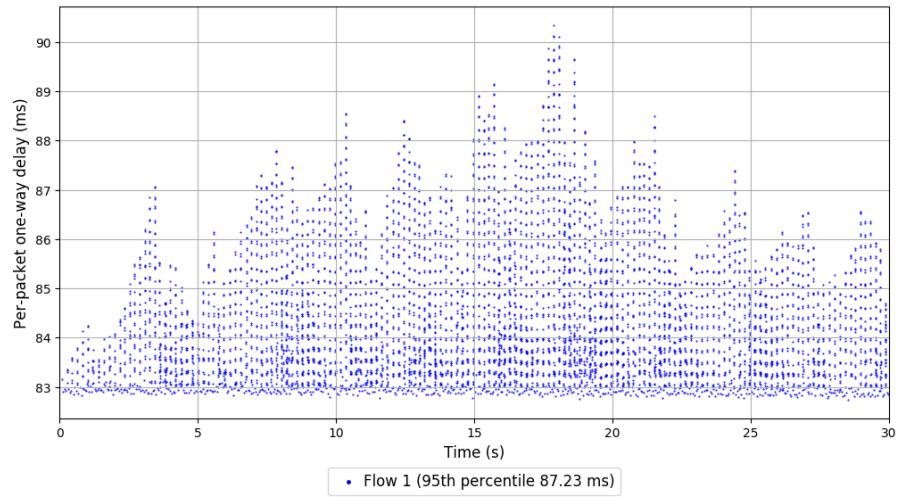
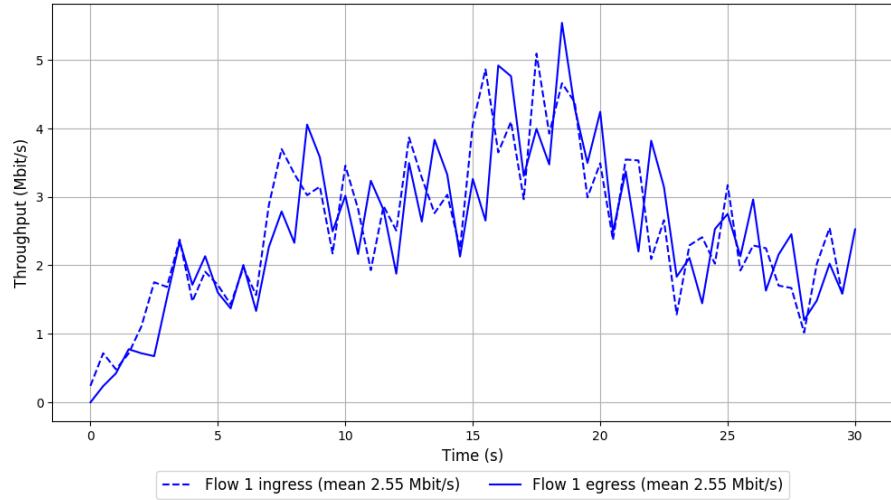


Run 5: Statistics of Sprout

```
Start at: 2019-06-27 04:14:55
End at: 2019-06-27 04:15:25
Local clock offset: -6.852 ms
Remote clock offset: 33.563 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 87.233 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 87.233 ms
Loss rate: 0.00%
```

## Run 5: Report of Sprout — Data Link

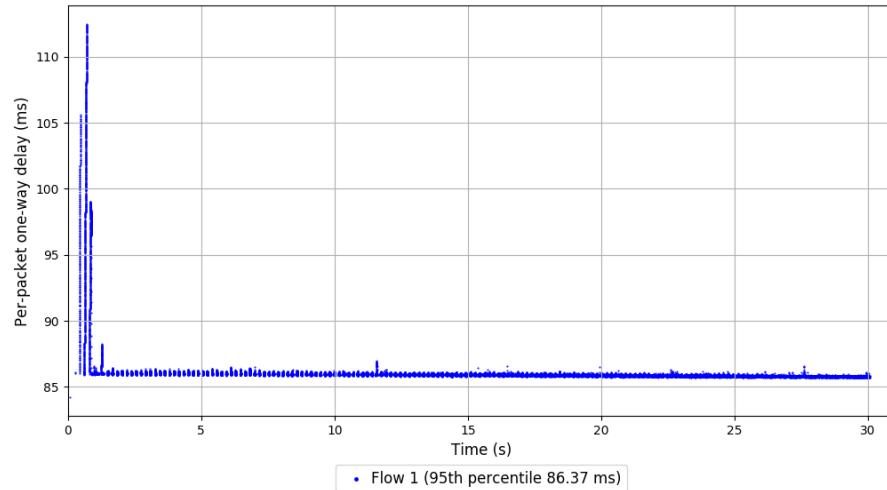
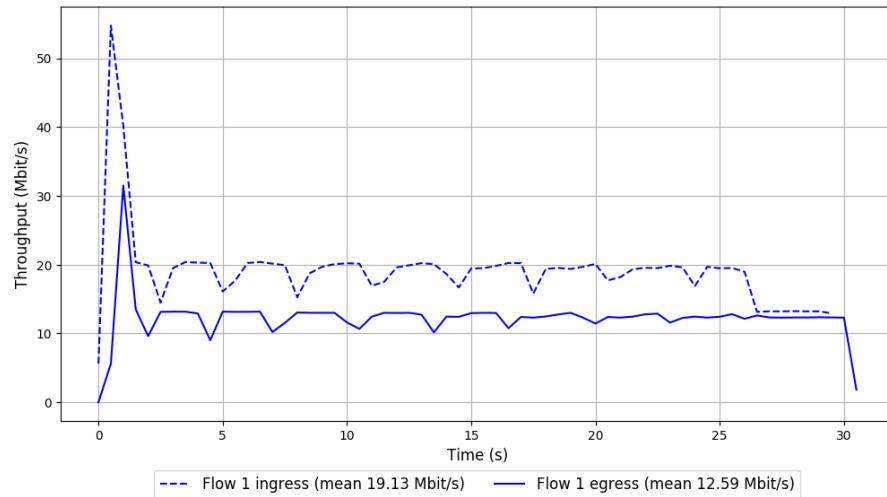


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-06-27 02:21:17
End at: 2019-06-27 02:21:47
Local clock offset: -1.475 ms
Remote clock offset: 20.276 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 86.371 ms
Loss rate: 34.18%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 86.371 ms
Loss rate: 34.18%
```

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

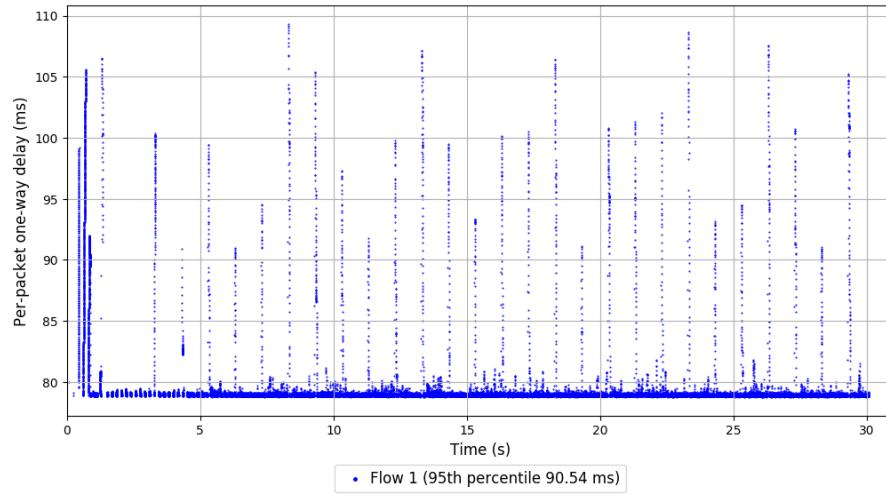
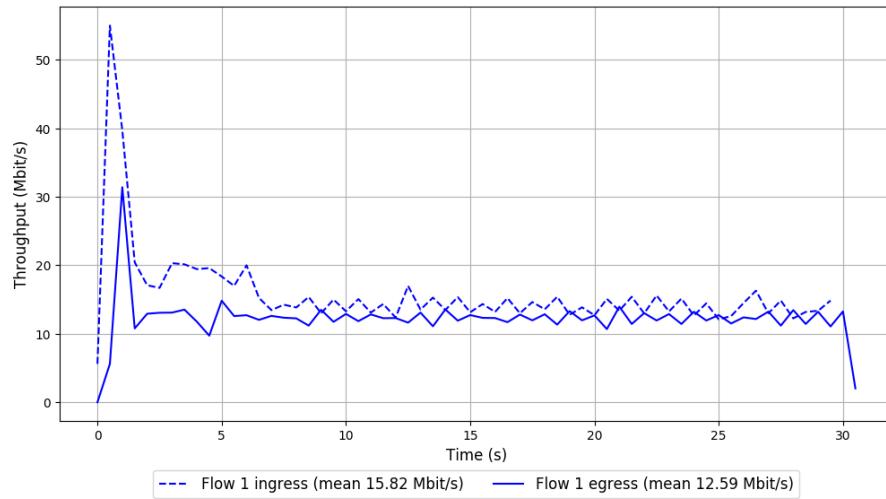


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-06-27 02:47:06
End at: 2019-06-27 02:47:36
Local clock offset: -3.326 ms
Remote clock offset: 17.019 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 90.537 ms
Loss rate: 20.43%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 90.537 ms
Loss rate: 20.43%
```

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

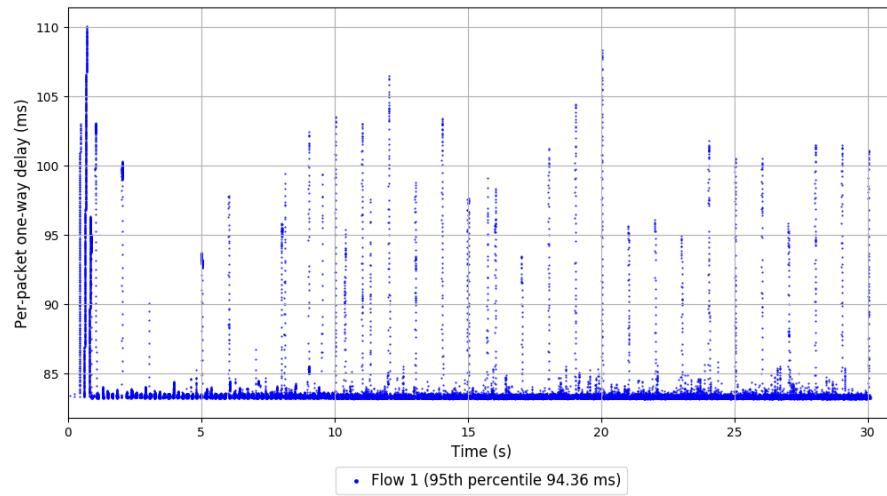
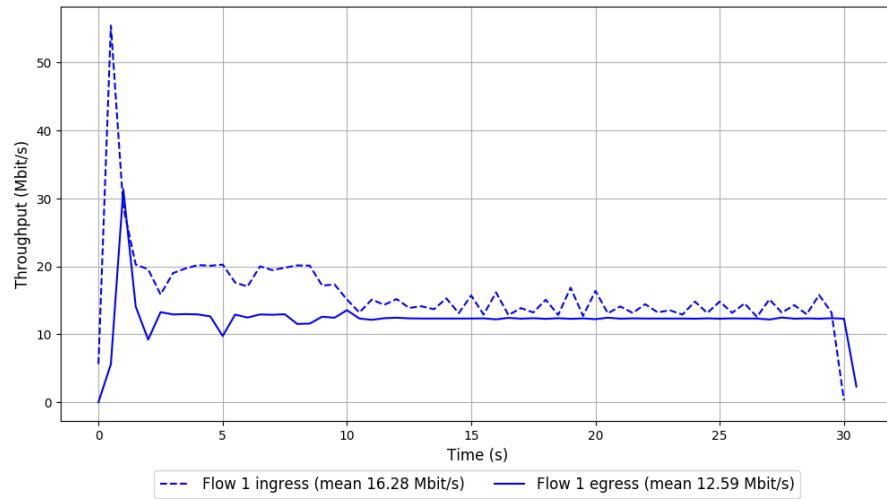


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-06-27 03:12:54
End at: 2019-06-27 03:13:24
Local clock offset: -4.142 ms
Remote clock offset: 25.788 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 94.362 ms
Loss rate: 22.68%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 94.362 ms
Loss rate: 22.68%
```

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

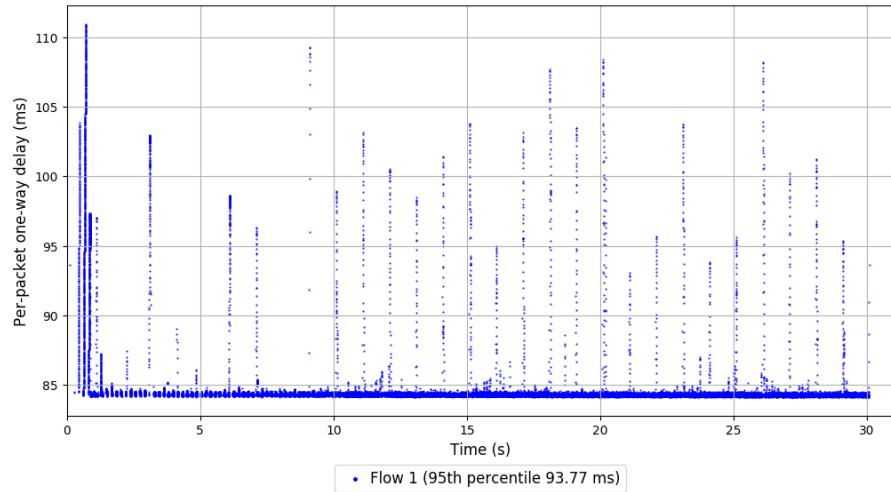
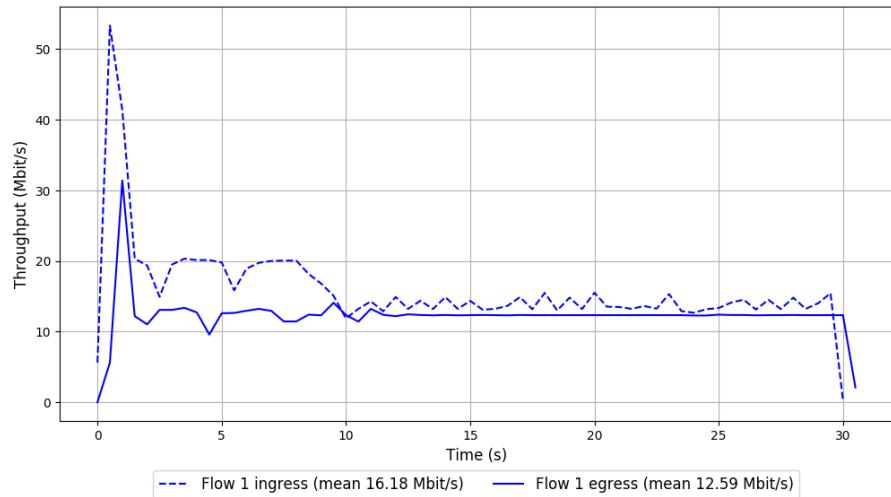


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-06-27 03:38:41
End at: 2019-06-27 03:39:11
Local clock offset: -4.64 ms
Remote clock offset: 30.091 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 93.771 ms
Loss rate: 22.22%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 93.771 ms
Loss rate: 22.22%
```

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

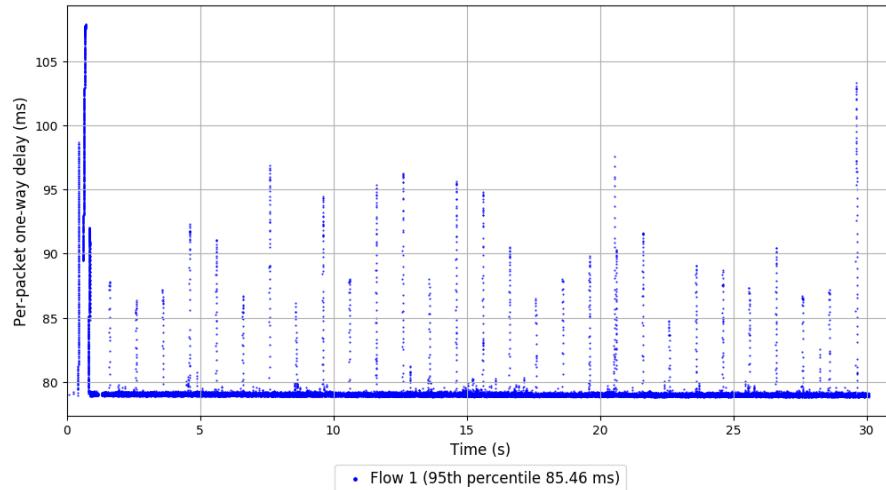
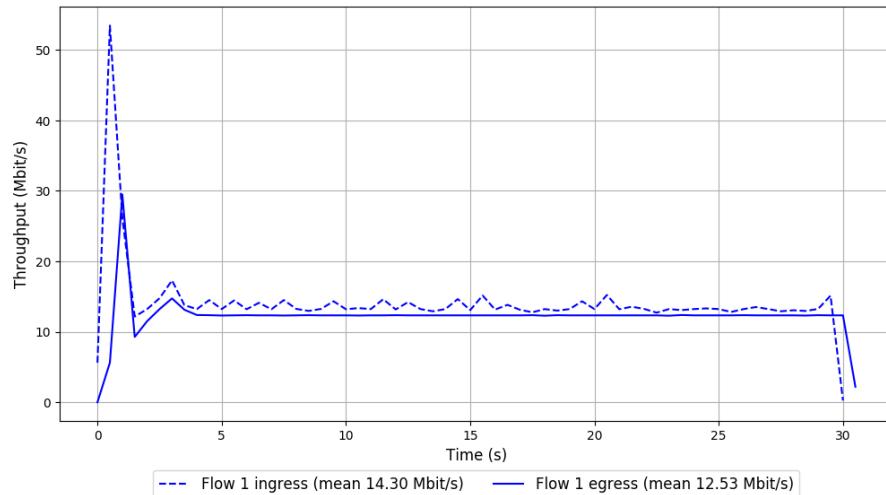


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-06-27 04:04:24
End at: 2019-06-27 04:04:54
Local clock offset: -5.897 ms
Remote clock offset: 28.145 ms

# Below is generated by plot.py at 2019-06-27 04:34:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 85.459 ms
Loss rate: 12.35%
-- Flow 1:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 85.459 ms
Loss rate: 12.35%
```

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

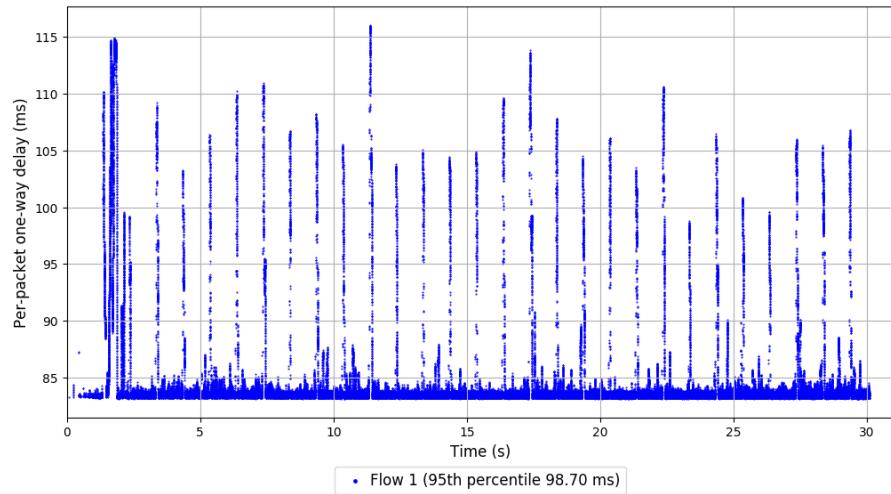
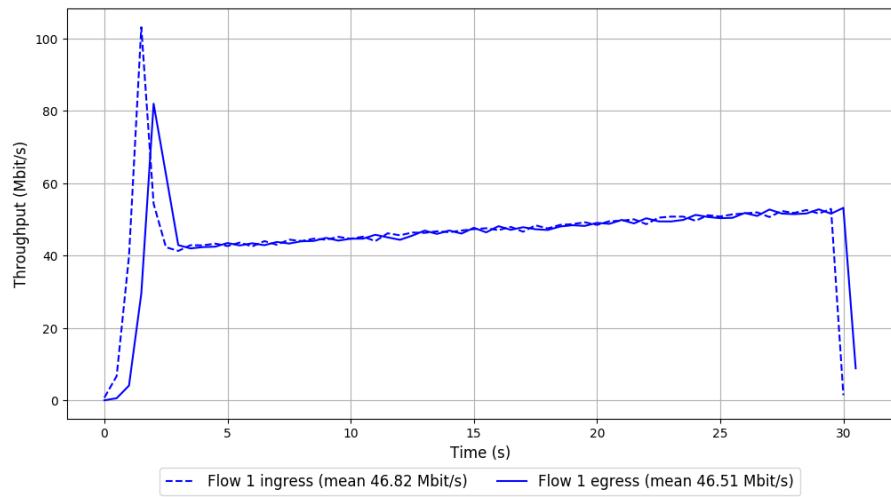


Run 1: Statistics of TCP Vegas

```
Start at: 2019-06-27 02:40:04
End at: 2019-06-27 02:40:34
Local clock offset: -3.558 ms
Remote clock offset: 21.27 ms

# Below is generated by plot.py at 2019-06-27 04:35:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.51 Mbit/s
95th percentile per-packet one-way delay: 98.701 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 46.51 Mbit/s
95th percentile per-packet one-way delay: 98.701 ms
Loss rate: 0.68%
```

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

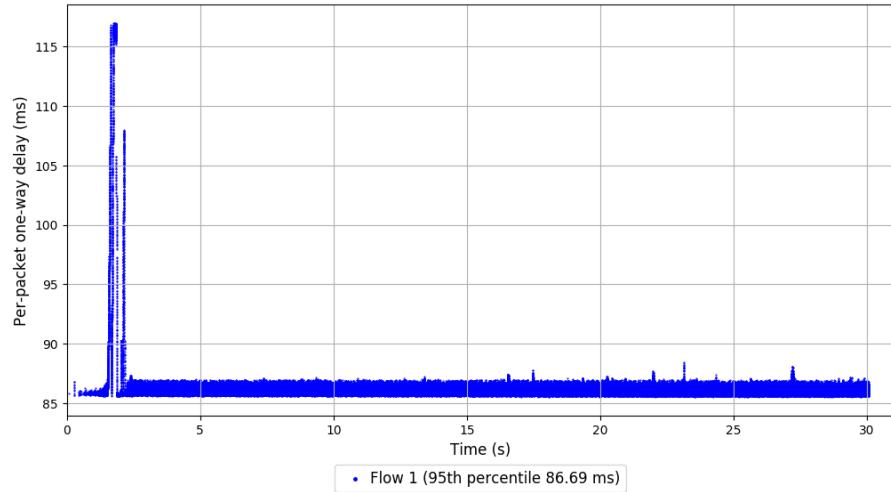
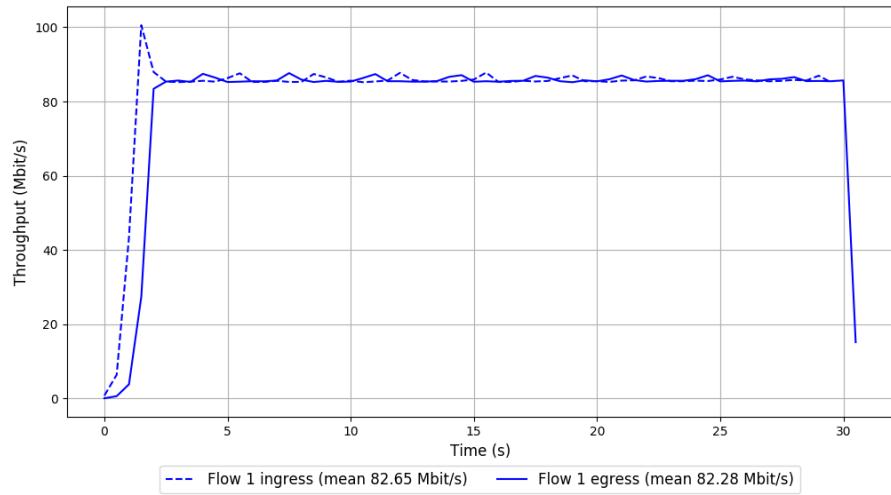


Run 2: Statistics of TCP Vegas

```
Start at: 2019-06-27 03:05:50
End at: 2019-06-27 03:06:20
Local clock offset: -4.315 ms
Remote clock offset: 25.802 ms

# Below is generated by plot.py at 2019-06-27 04:35:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.28 Mbit/s
95th percentile per-packet one-way delay: 86.695 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 82.28 Mbit/s
95th percentile per-packet one-way delay: 86.695 ms
Loss rate: 0.44%
```

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

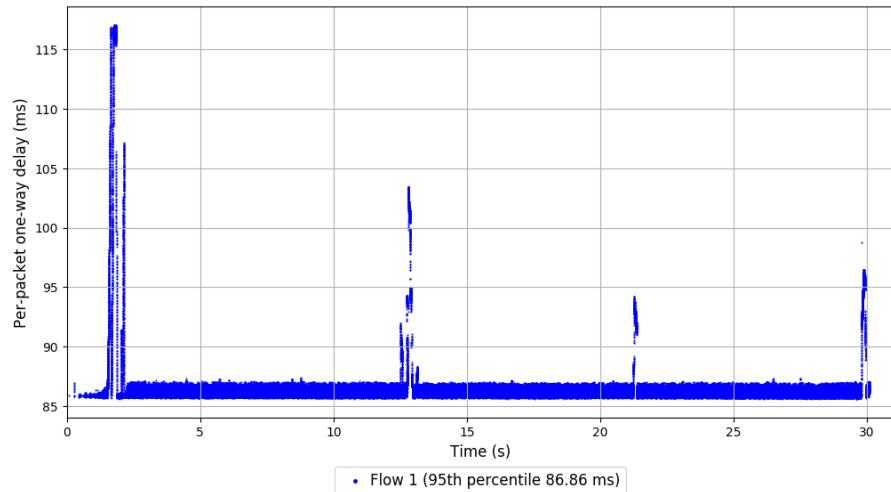
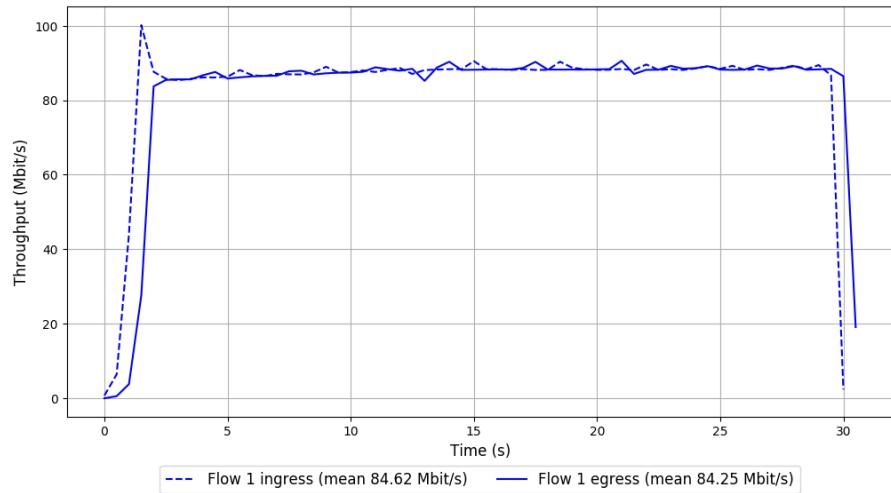


Run 3: Statistics of TCP Vegas

```
Start at: 2019-06-27 03:31:37
End at: 2019-06-27 03:32:07
Local clock offset: -4.895 ms
Remote clock offset: 29.076 ms

# Below is generated by plot.py at 2019-06-27 04:35:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.25 Mbit/s
95th percentile per-packet one-way delay: 86.857 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 84.25 Mbit/s
95th percentile per-packet one-way delay: 86.857 ms
Loss rate: 0.43%
```

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

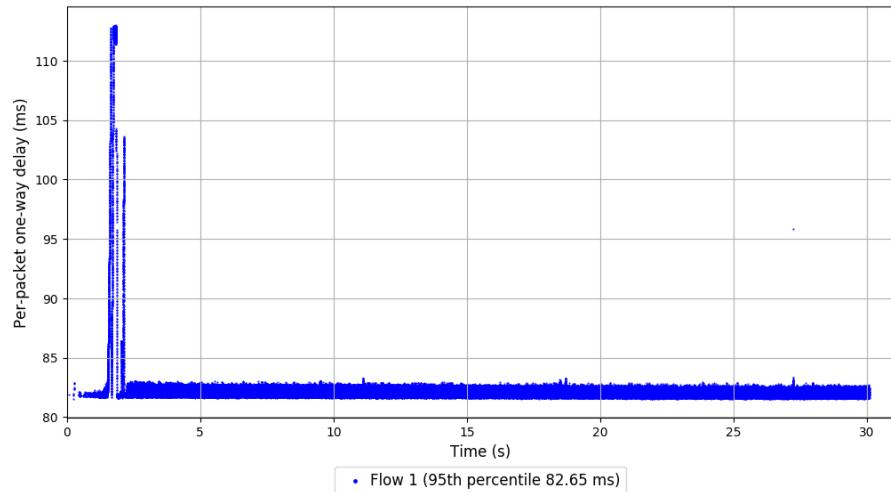
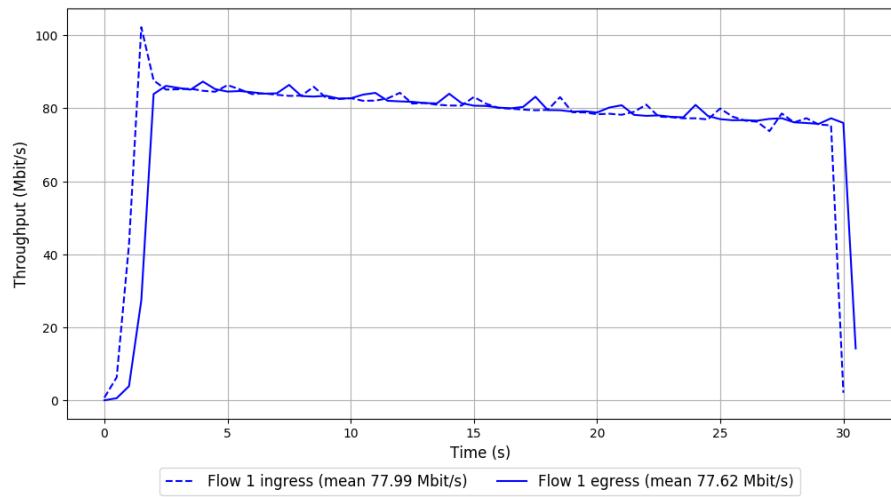


Run 4: Statistics of TCP Vegas

```
Start at: 2019-06-27 03:57:22
End at: 2019-06-27 03:57:52
Local clock offset: -6.35 ms
Remote clock offset: 27.247 ms

# Below is generated by plot.py at 2019-06-27 04:35:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.62 Mbit/s
95th percentile per-packet one-way delay: 82.651 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 77.62 Mbit/s
95th percentile per-packet one-way delay: 82.651 ms
Loss rate: 0.47%
```

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

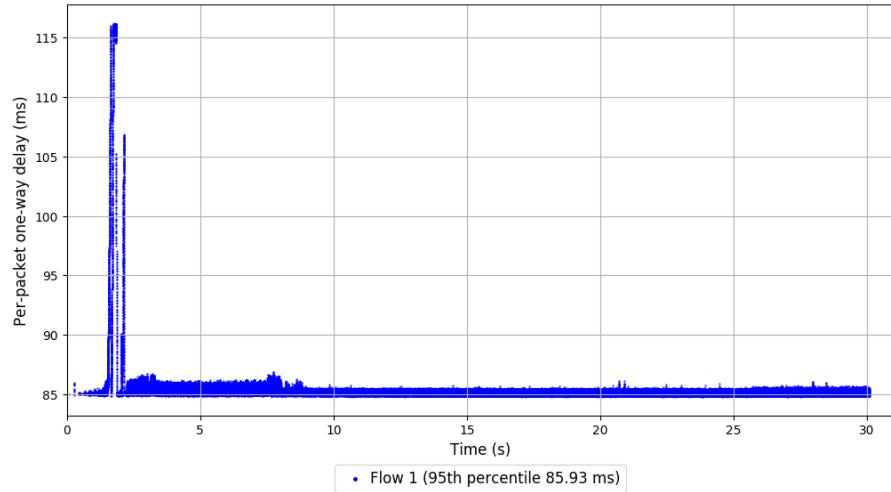
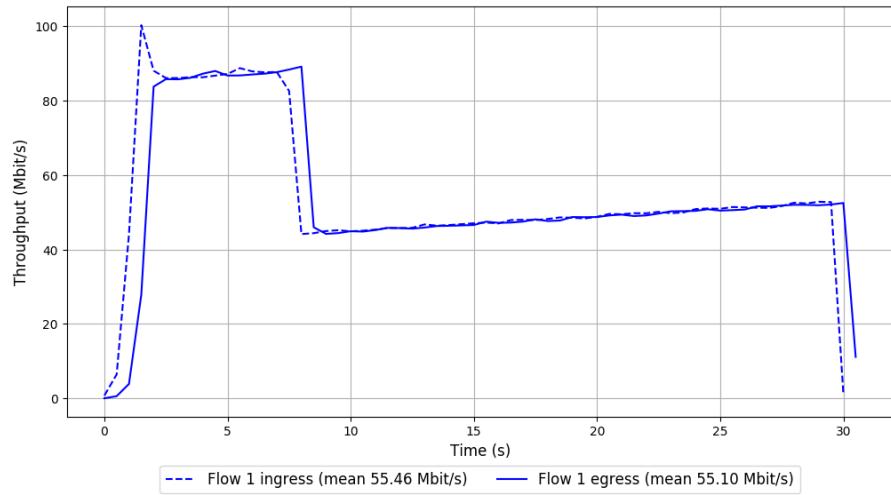


Run 5: Statistics of TCP Vegas

```
Start at: 2019-06-27 04:23:13
End at: 2019-06-27 04:23:43
Local clock offset: -7.031 ms
Remote clock offset: 34.551 ms

# Below is generated by plot.py at 2019-06-27 04:35:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.10 Mbit/s
95th percentile per-packet one-way delay: 85.933 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 55.10 Mbit/s
95th percentile per-packet one-way delay: 85.933 ms
Loss rate: 0.66%
```

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

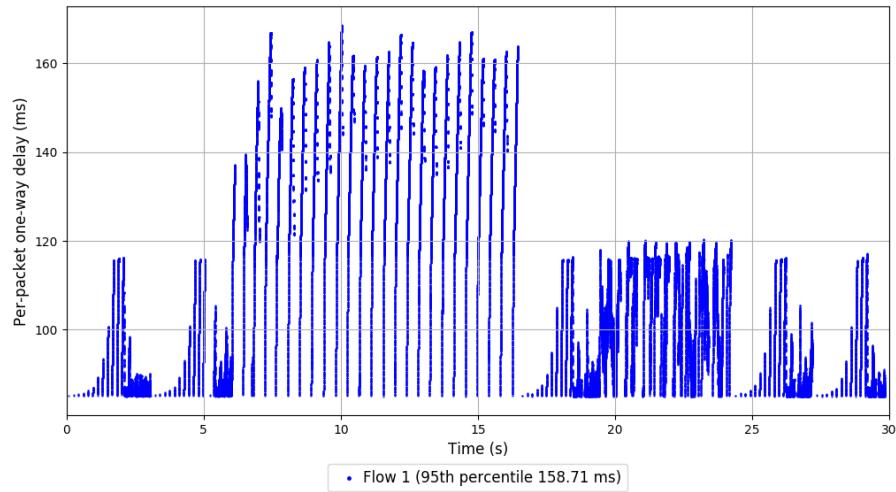
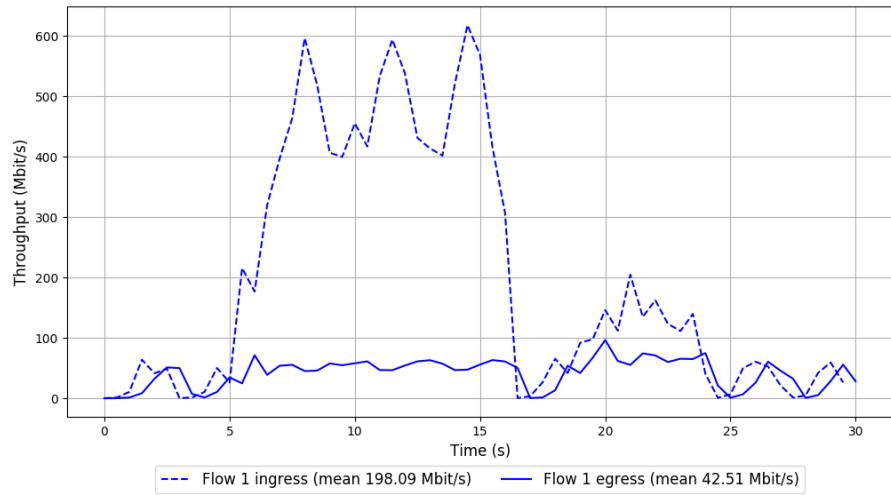


Run 1: Statistics of Verus

```
Start at: 2019-06-27 02:32:56
End at: 2019-06-27 02:33:26
Local clock offset: -2.823 ms
Remote clock offset: 21.529 ms

# Below is generated by plot.py at 2019-06-27 04:35:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.51 Mbit/s
95th percentile per-packet one-way delay: 158.711 ms
Loss rate: 78.54%
-- Flow 1:
Average throughput: 42.51 Mbit/s
95th percentile per-packet one-way delay: 158.711 ms
Loss rate: 78.54%
```

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

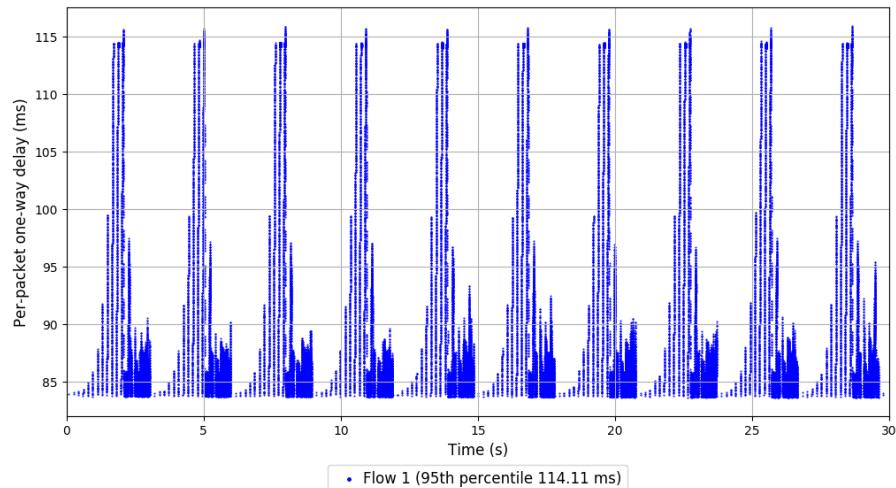
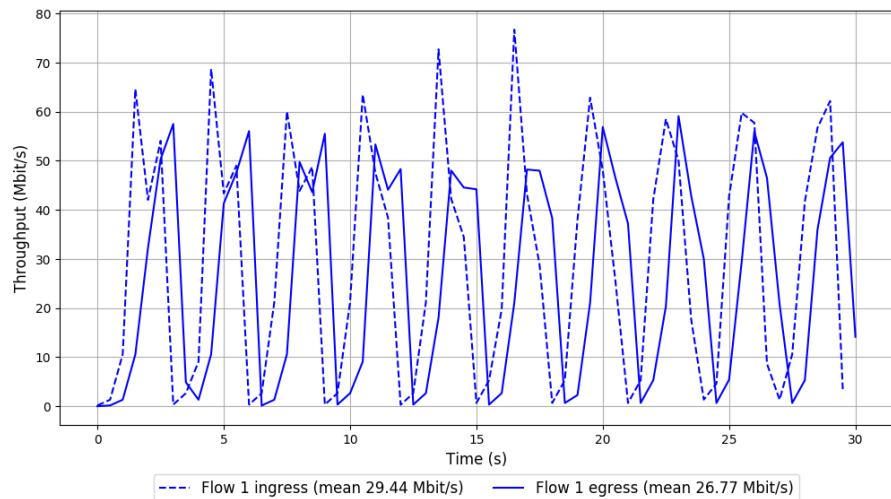


Run 2: Statistics of Verus

```
Start at: 2019-06-27 02:58:45
End at: 2019-06-27 02:59:15
Local clock offset: -4.897 ms
Remote clock offset: 23.986 ms

# Below is generated by plot.py at 2019-06-27 04:35:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.77 Mbit/s
95th percentile per-packet one-way delay: 114.115 ms
Loss rate: 9.08%
-- Flow 1:
Average throughput: 26.77 Mbit/s
95th percentile per-packet one-way delay: 114.115 ms
Loss rate: 9.08%
```

## Run 2: Report of Verus — Data Link

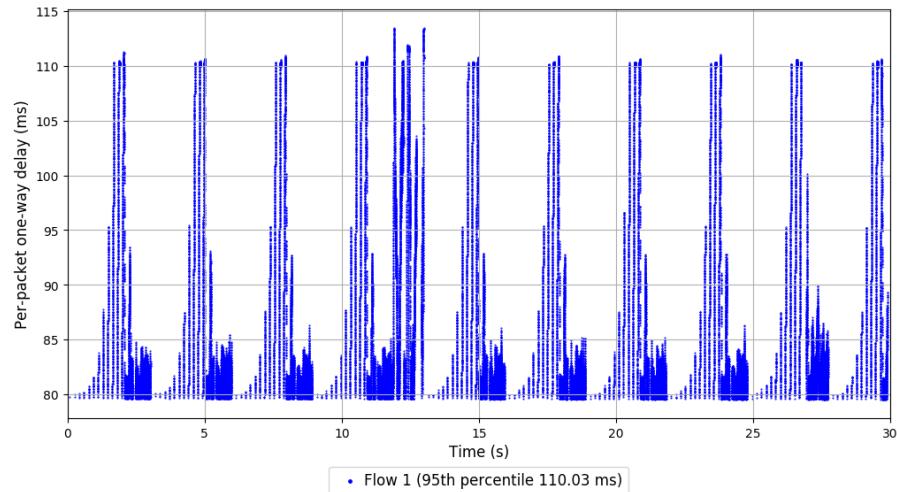
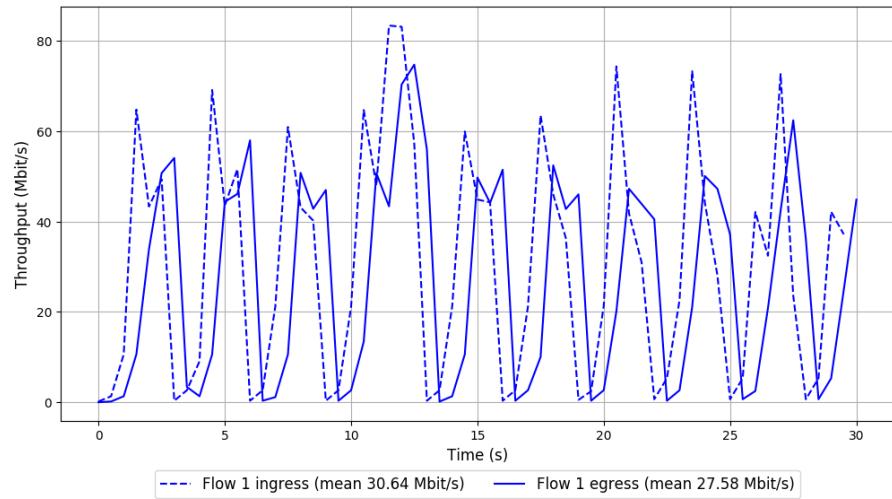


Run 3: Statistics of Verus

```
Start at: 2019-06-27 03:24:31
End at: 2019-06-27 03:25:02
Local clock offset: -5.281 ms
Remote clock offset: 23.071 ms

# Below is generated by plot.py at 2019-06-27 04:35:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.58 Mbit/s
95th percentile per-packet one-way delay: 110.031 ms
Loss rate: 9.94%
-- Flow 1:
Average throughput: 27.58 Mbit/s
95th percentile per-packet one-way delay: 110.031 ms
Loss rate: 9.94%
```

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

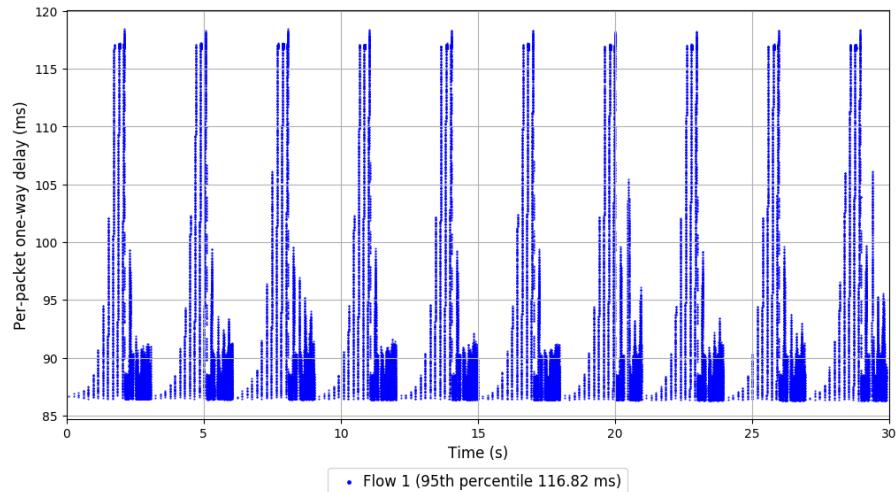
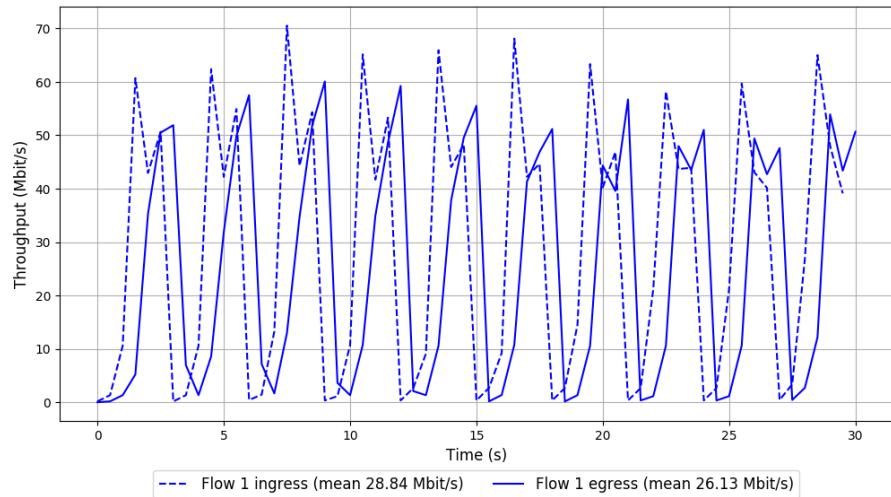


Run 4: Statistics of Verus

```
Start at: 2019-06-27 03:50:19
End at: 2019-06-27 03:50:49
Local clock offset: -5.603 ms
Remote clock offset: 30.327 ms

# Below is generated by plot.py at 2019-06-27 04:35:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.13 Mbit/s
95th percentile per-packet one-way delay: 116.823 ms
Loss rate: 9.40%
-- Flow 1:
Average throughput: 26.13 Mbit/s
95th percentile per-packet one-way delay: 116.823 ms
Loss rate: 9.40%
```

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

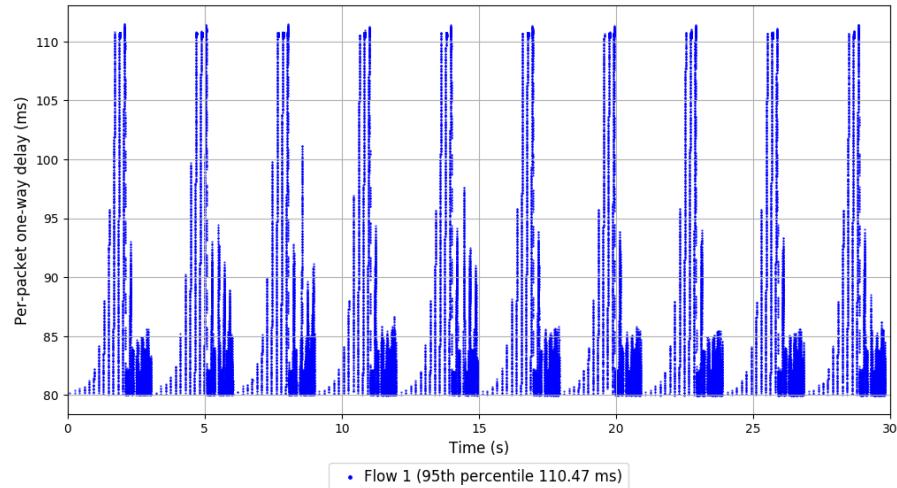
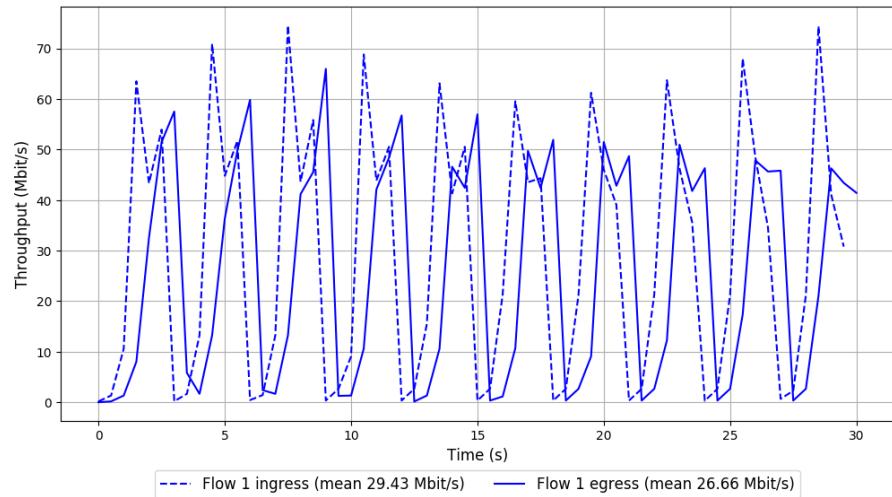


Run 5: Statistics of Verus

```
Start at: 2019-06-27 04:16:03
End at: 2019-06-27 04:16:33
Local clock offset: -6.07 ms
Remote clock offset: 28.636 ms

# Below is generated by plot.py at 2019-06-27 04:35:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.66 Mbit/s
95th percentile per-packet one-way delay: 110.469 ms
Loss rate: 9.40%
-- Flow 1:
Average throughput: 26.66 Mbit/s
95th percentile per-packet one-way delay: 110.469 ms
Loss rate: 9.40%
```

## Run 5: Report of Verus — Data Link

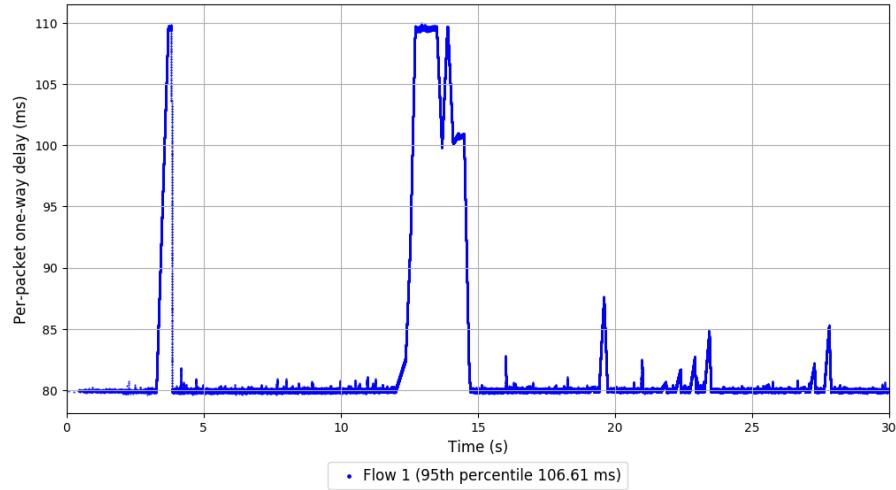
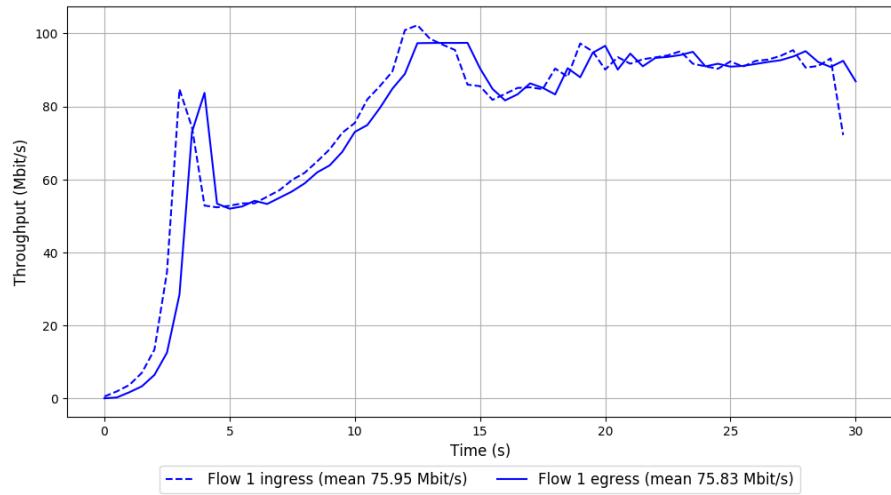


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-06-27 02:36:33
End at: 2019-06-27 02:37:03
Local clock offset: -3.93 ms
Remote clock offset: 15.688 ms

# Below is generated by plot.py at 2019-06-27 04:36:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.83 Mbit/s
95th percentile per-packet one-way delay: 106.615 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 75.83 Mbit/s
95th percentile per-packet one-way delay: 106.615 ms
Loss rate: 0.16%
```

Run 1: Report of PCC-Vivace — Data Link

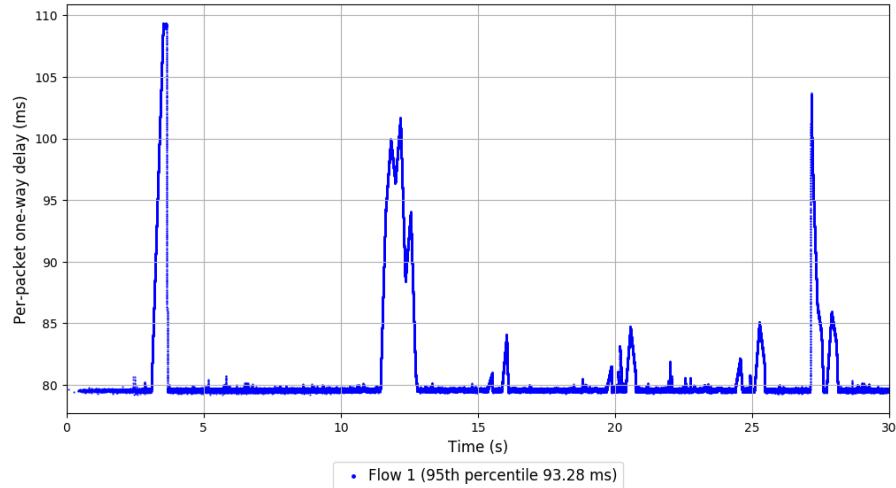
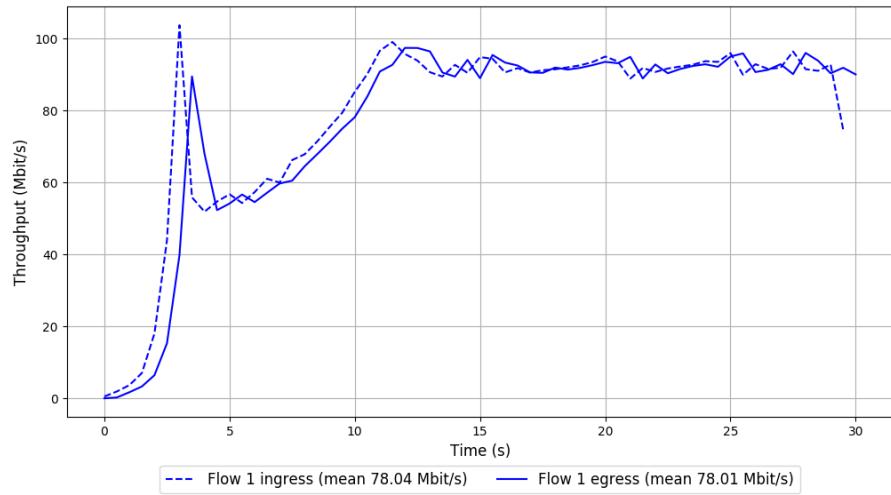


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-06-27 03:02:19
End at: 2019-06-27 03:02:49
Local clock offset: -4.22 ms
Remote clock offset: 20.233 ms

# Below is generated by plot.py at 2019-06-27 04:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.01 Mbit/s
95th percentile per-packet one-way delay: 93.281 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 78.01 Mbit/s
95th percentile per-packet one-way delay: 93.281 ms
Loss rate: 0.04%
```

Run 2: Report of PCC-Vivace — Data Link

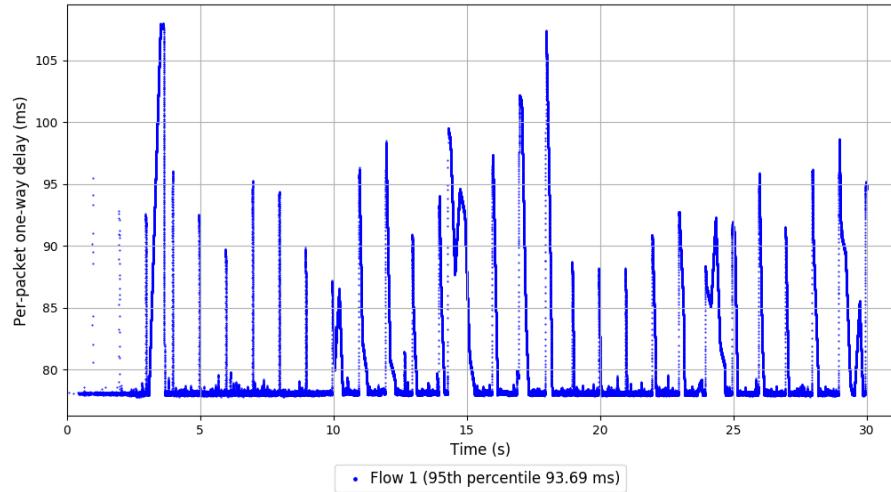
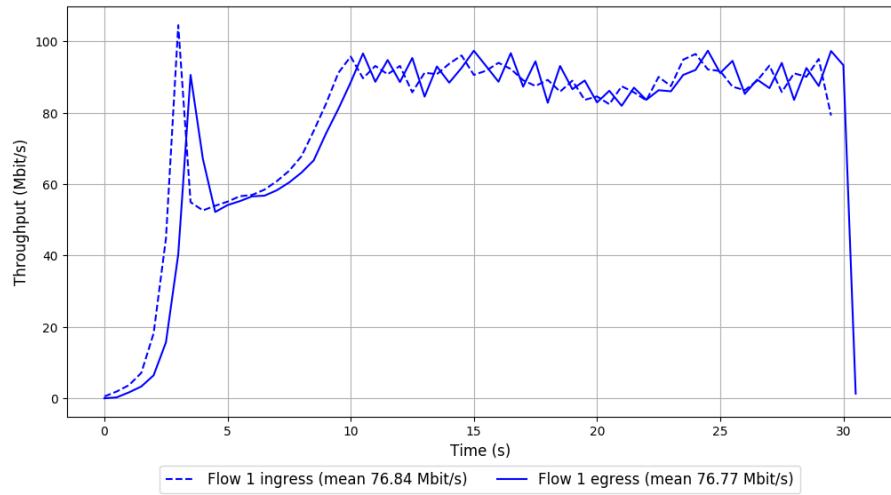


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-06-27 03:28:06
End at: 2019-06-27 03:28:36
Local clock offset: -5.415 ms
Remote clock offset: 22.531 ms

# Below is generated by plot.py at 2019-06-27 04:36:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.77 Mbit/s
95th percentile per-packet one-way delay: 93.695 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 76.77 Mbit/s
95th percentile per-packet one-way delay: 93.695 ms
Loss rate: 0.04%
```

Run 3: Report of PCC-Vivace — Data Link

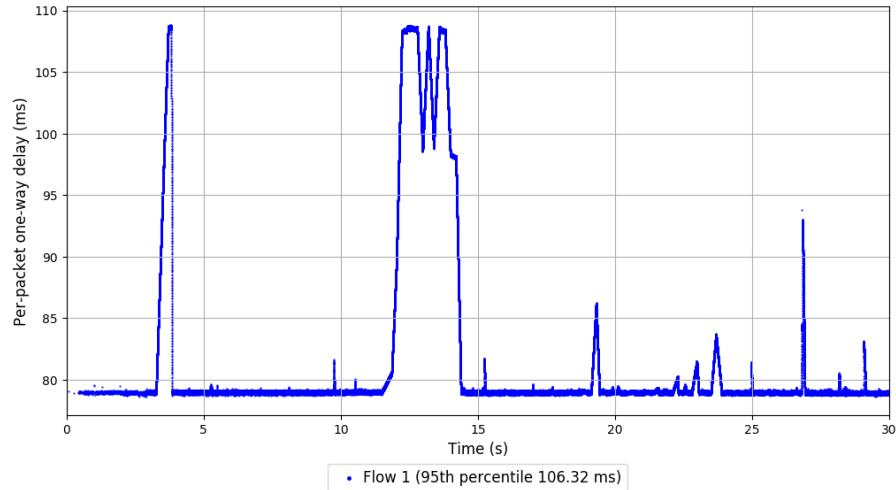
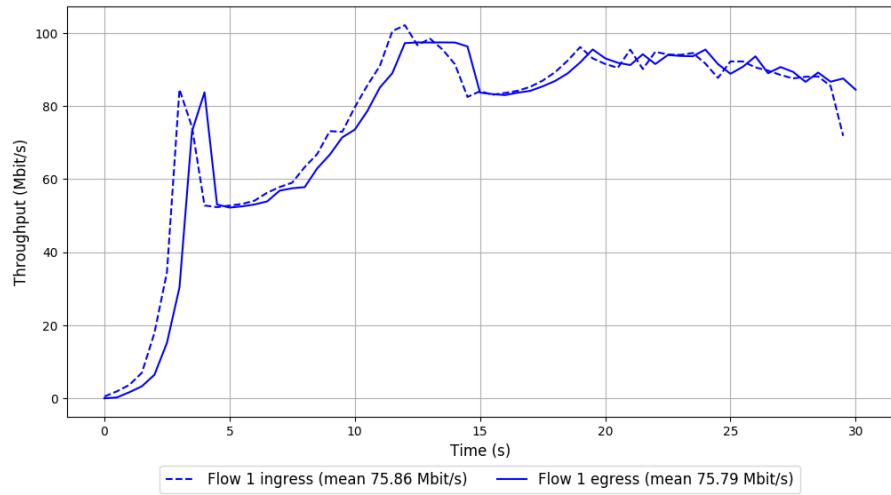


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-06-27 03:53:53
End at: 2019-06-27 03:54:23
Local clock offset: -5.278 ms
Remote clock offset: 25.787 ms

# Below is generated by plot.py at 2019-06-27 04:36:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.79 Mbit/s
95th percentile per-packet one-way delay: 106.320 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 75.79 Mbit/s
95th percentile per-packet one-way delay: 106.320 ms
Loss rate: 0.10%
```

Run 4: Report of PCC-Vivace — Data Link

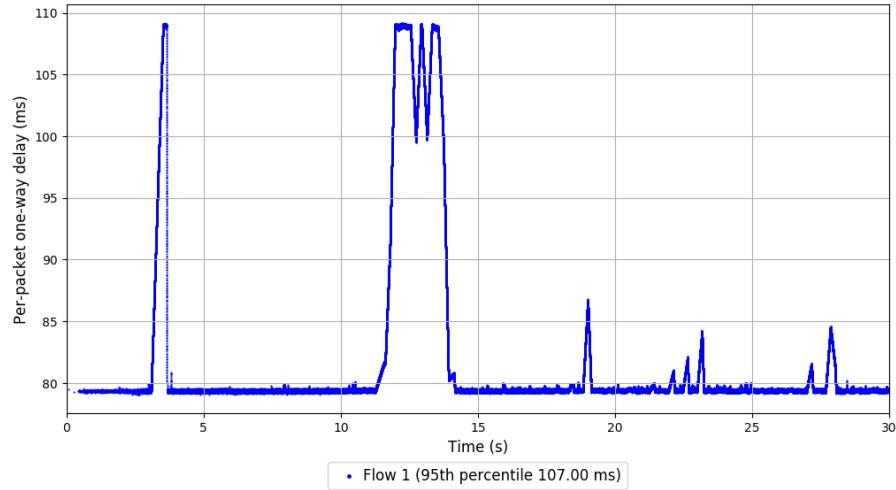
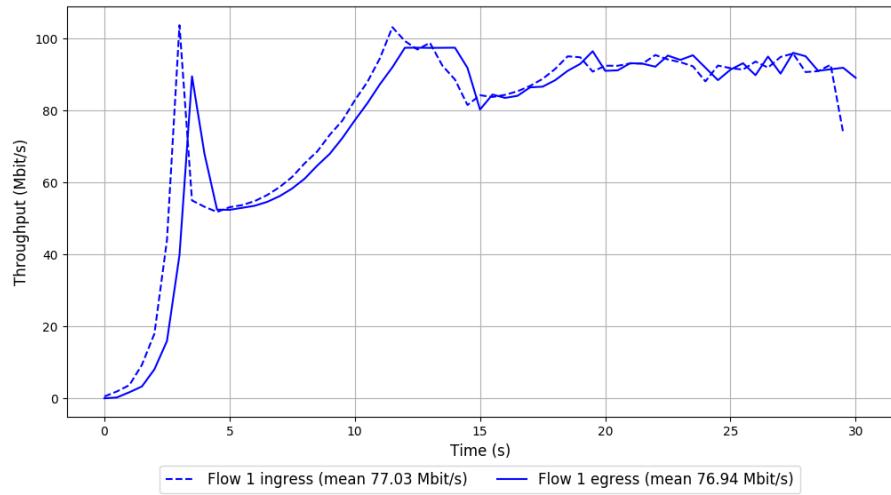


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-06-27 04:19:37
End at: 2019-06-27 04:20:07
Local clock offset: -6.081 ms
Remote clock offset: 29.954 ms

# Below is generated by plot.py at 2019-06-27 04:36:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.94 Mbit/s
95th percentile per-packet one-way delay: 106.996 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 76.94 Mbit/s
95th percentile per-packet one-way delay: 106.996 ms
Loss rate: 0.12%
```

Run 5: Report of PCC-Vivace — Data Link

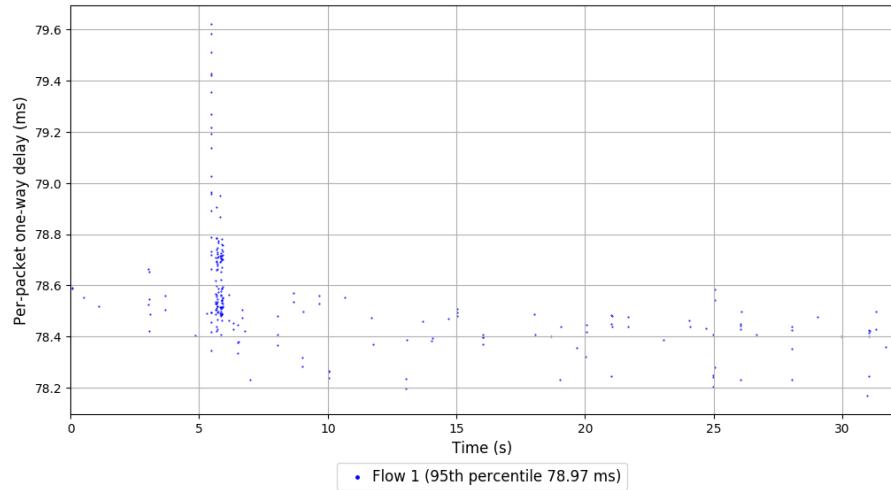
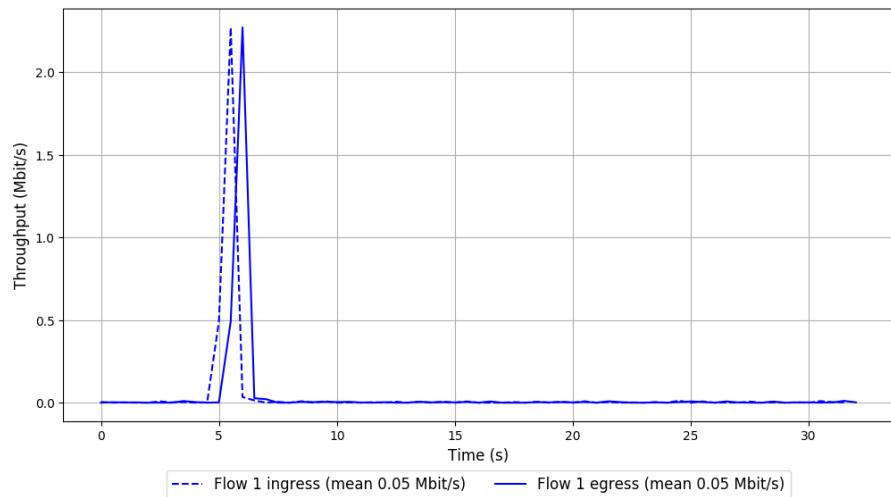


```
Run 1: Statistics of WebRTC media

Start at: 2019-06-27 02:38:57
End at: 2019-06-27 02:39:27
Local clock offset: -2.793 ms
Remote clock offset: 17.141 ms

# Below is generated by plot.py at 2019-06-27 04:36:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 78.966 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 78.966 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

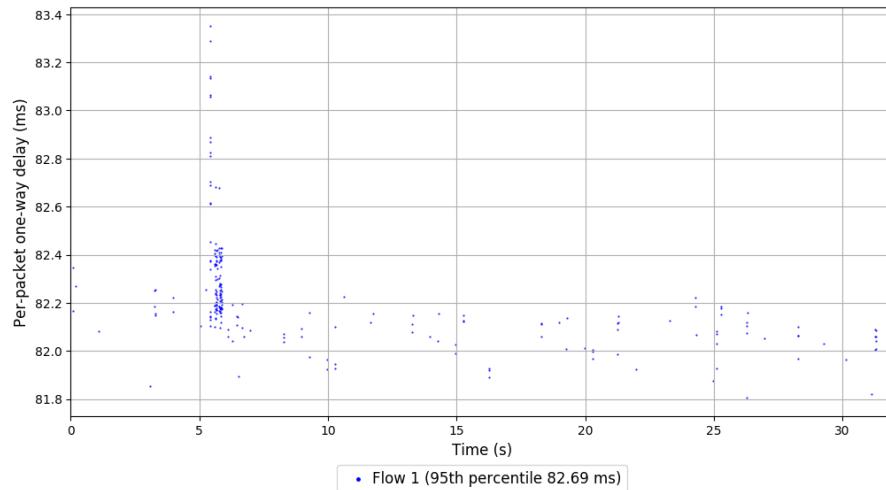
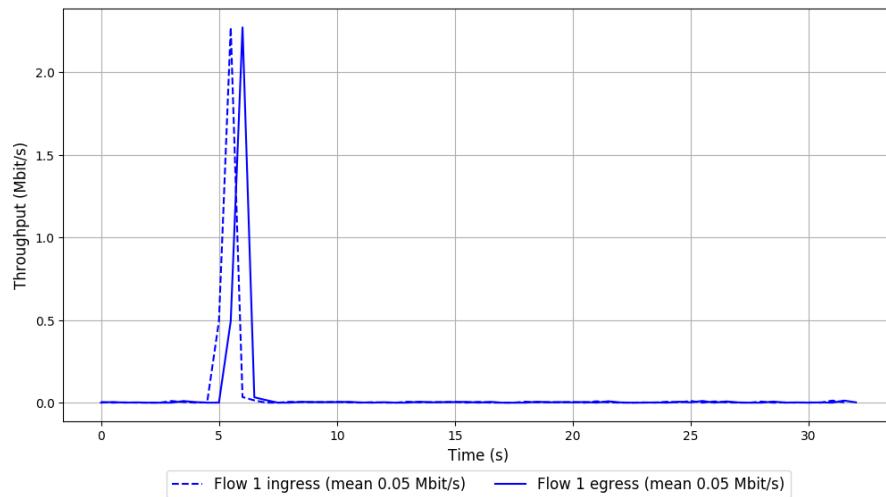


Run 2: Statistics of WebRTC media

```
Start at: 2019-06-27 03:04:43
End at: 2019-06-27 03:05:13
Local clock offset: -5.316 ms
Remote clock offset: 23.307 ms

# Below is generated by plot.py at 2019-06-27 04:36:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 82.690 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 82.690 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

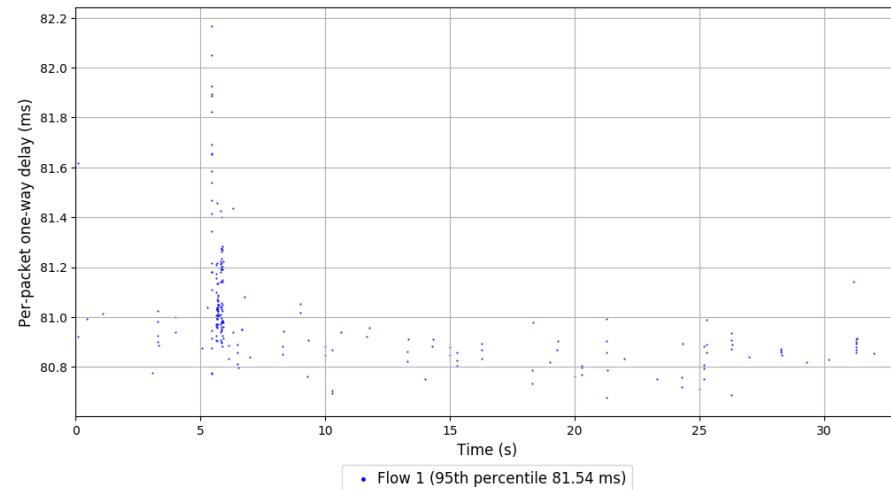
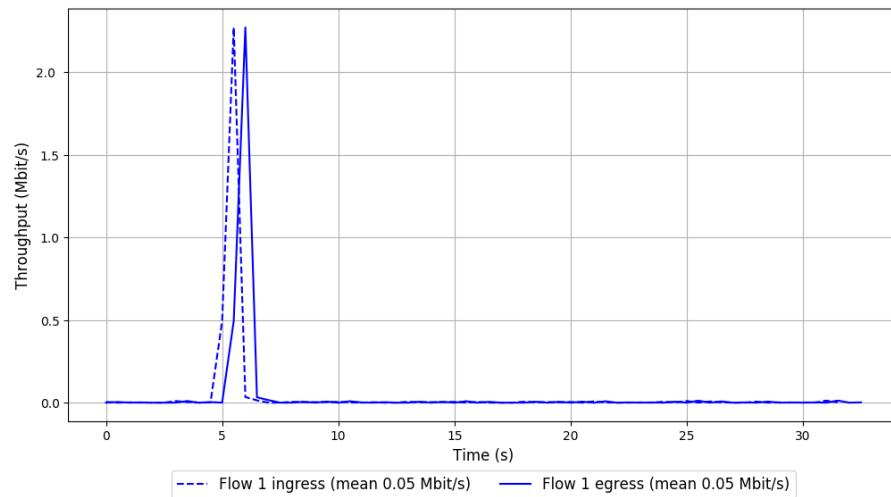


Run 3: Statistics of WebRTC media

```
Start at: 2019-06-27 03:30:30
End at: 2019-06-27 03:31:00
Local clock offset: -5.508 ms
Remote clock offset: 23.918 ms

# Below is generated by plot.py at 2019-06-27 04:36:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 81.539 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 81.539 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

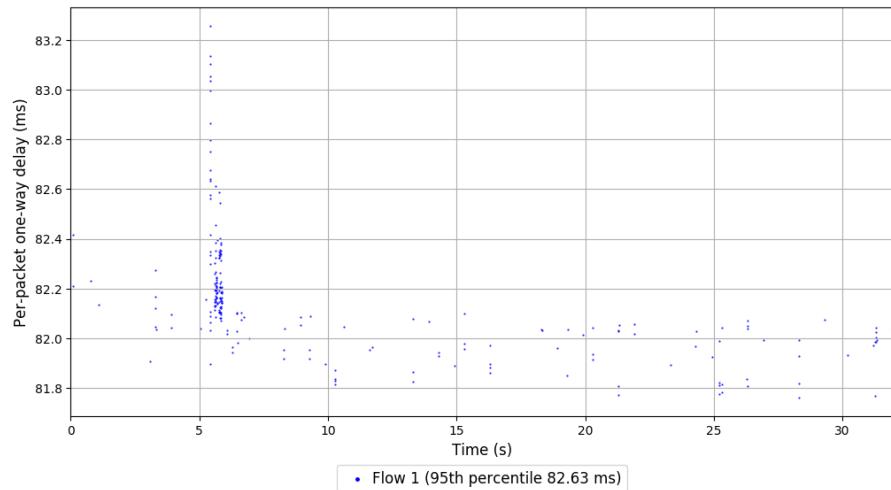
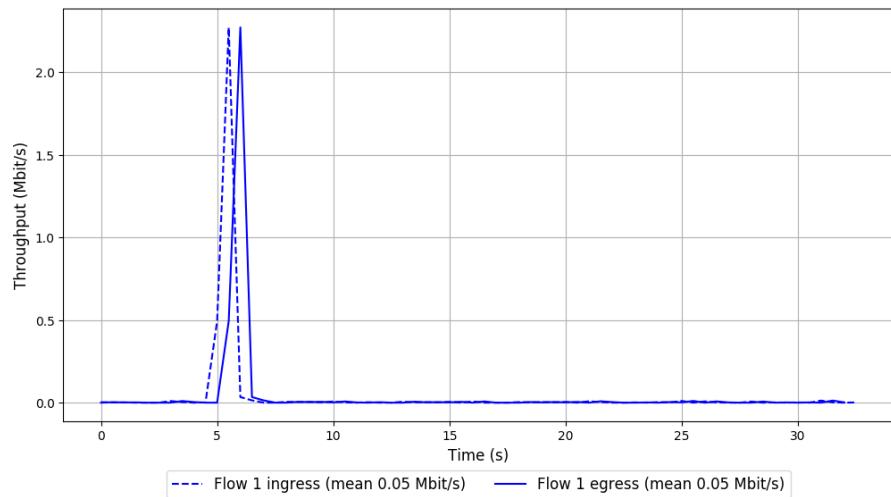


Run 4: Statistics of WebRTC media

```
Start at: 2019-06-27 03:56:15
End at: 2019-06-27 03:56:45
Local clock offset: -6.325 ms
Remote clock offset: 29.928 ms

# Below is generated by plot.py at 2019-06-27 04:36:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 82.632 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 82.632 ms
Loss rate: 0.05%
```

#### Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-06-27 04:22:01
End at: 2019-06-27 04:22:31
Local clock offset: -6.123 ms
Remote clock offset: 34.586 ms

# Below is generated by plot.py at 2019-06-27 04:36:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 84.161 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 84.161 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

