

## Pantheon Report

Generated at 2019-07-12 01:38:33 (UTC).  
Data path: AWS California 2 on `ens5` (*local*) → Mexico on `em1` (*remote*).  
Repeated the test of 24 congestion control schemes 5 times.  
Each test lasted for 30 seconds running 1 flow.  
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

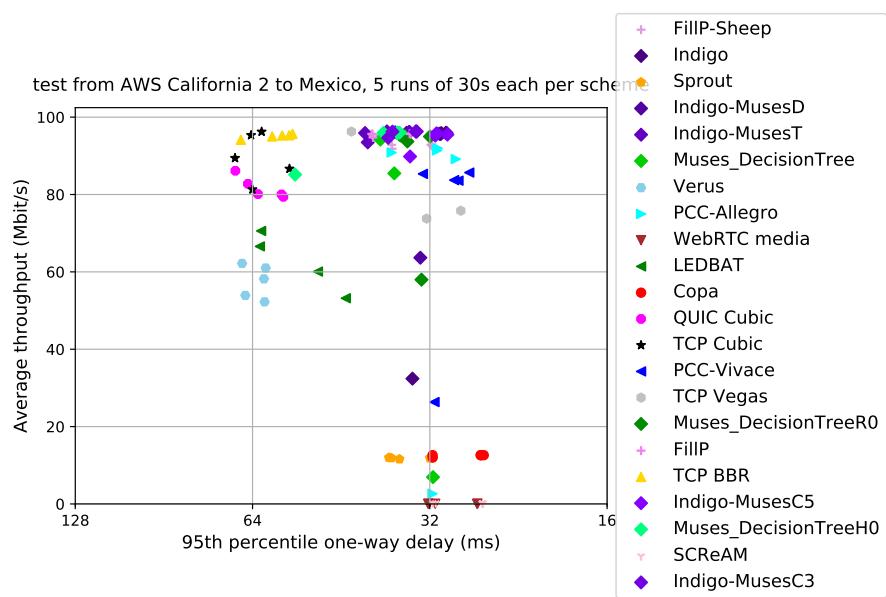
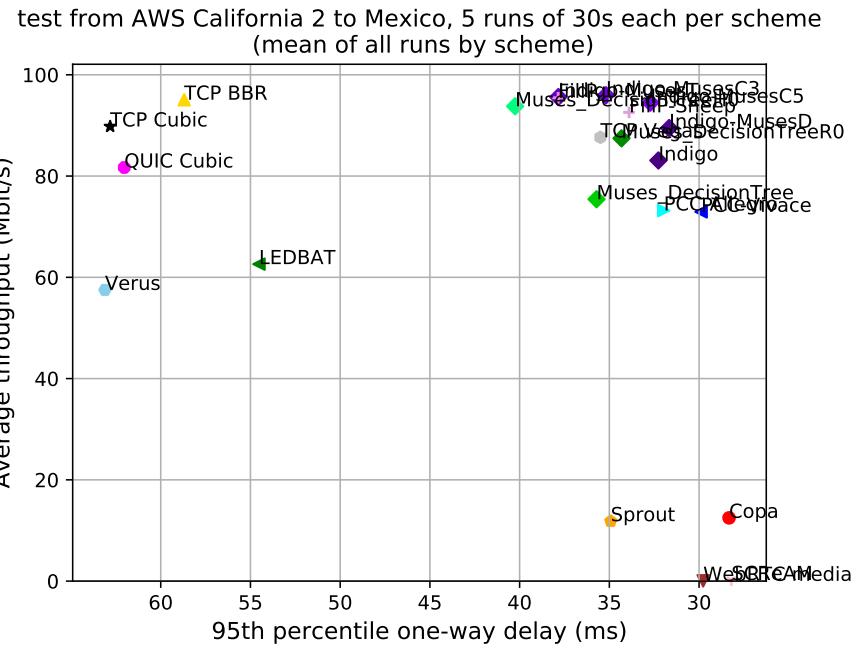
System info:

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

Git summary:

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

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



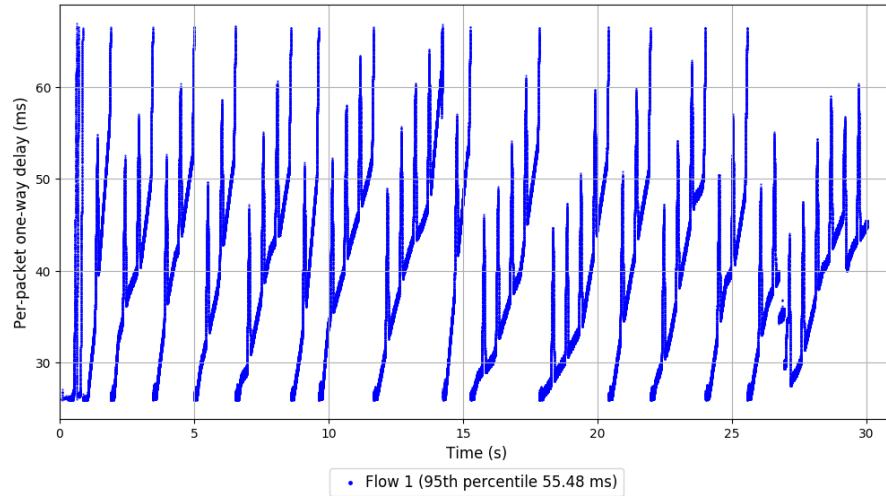
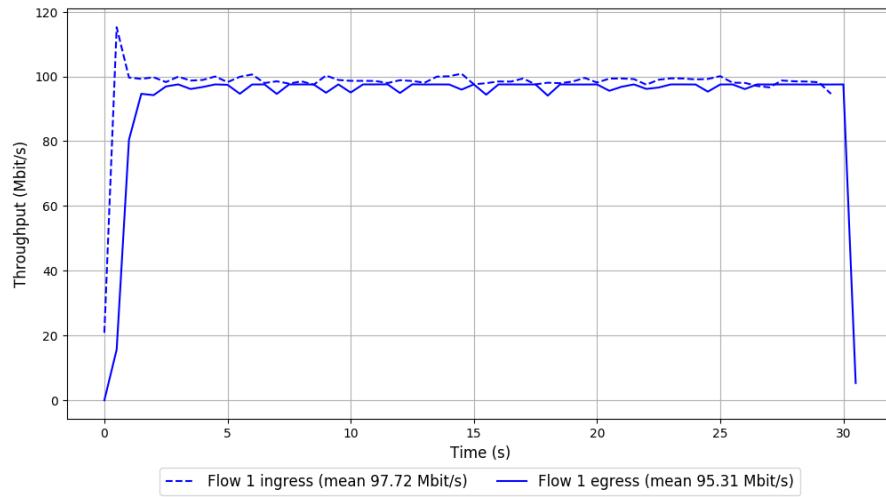
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	95.08	58.69	2.80
Copa	5	12.49	28.33	62.28
TCP Cubic	5	89.79	62.82	0.53
FillP	5	95.45	37.85	0.64
FillP-Sheep	5	92.58	33.90	0.58
Indigo	5	83.08	32.27	0.02
Indigo-MusesC3	5	95.96	35.19	0.02
Indigo-MusesC5	5	94.50	32.71	0.03
Indigo-MusesD	5	89.49	31.67	0.02
Indigo-MusesT	5	95.61	37.84	0.50
LEDBAT	4	62.61	54.53	0.02
Muses_DecisionTree	5	75.43	35.71	0.06
Muses_DecisionTreeH0	5	93.78	40.25	0.83
Muses_DecisionTreeR0	5	87.45	34.32	0.07
PCC-Allegro	5	73.19	31.97	0.56
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	81.69	62.03	1.38
SCReAM	5	0.21	28.20	0.00
Sprout	5	11.84	34.92	0.03
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	87.65	35.50	0.31
Verus	5	57.51	63.11	20.79
PCC-Vivace	5	72.93	29.89	0.00
WebRTC media	5	0.05	29.77	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-07-11 22:54:35
End at: 2019-07-11 22:55:05
Local clock offset: 6.032 ms
Remote clock offset: -2.714 ms

# Below is generated by plot.py at 2019-07-12 01:26:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 55.480 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 55.480 ms
Loss rate: 2.41%
```

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

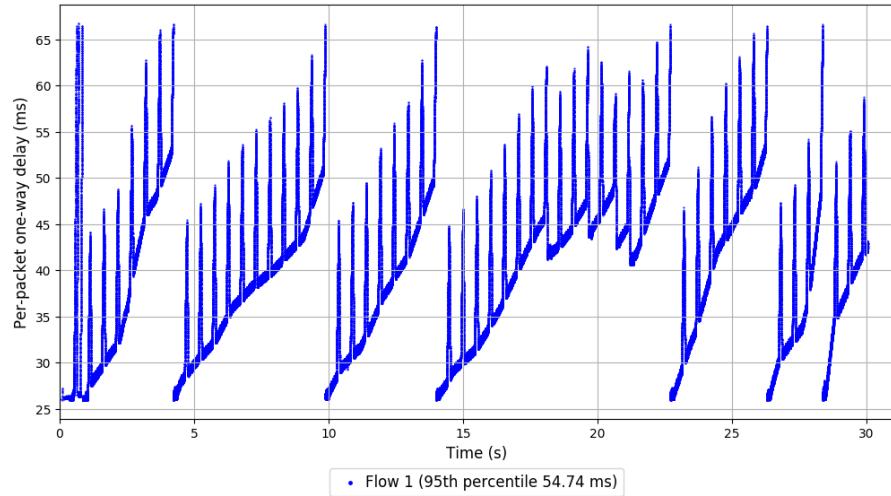
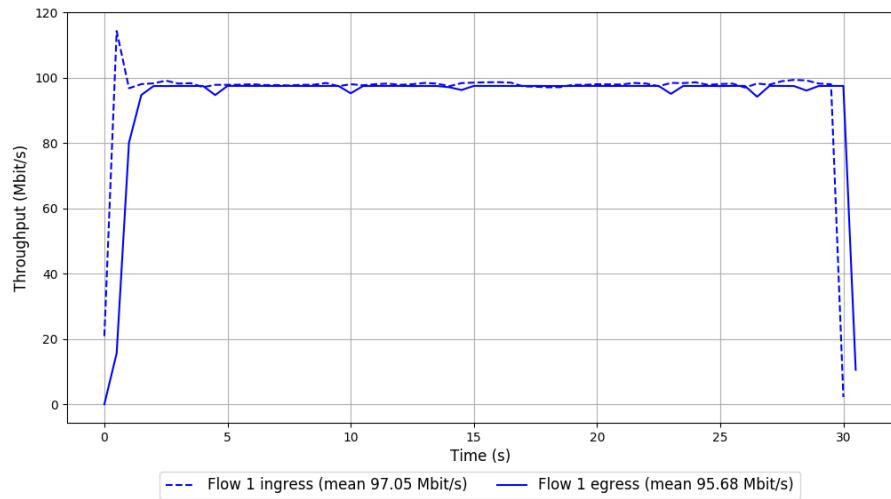


Run 2: Statistics of TCP BBR

```
Start at: 2019-07-11 23:25:59
End at: 2019-07-11 23:26:29
Local clock offset: 5.673 ms
Remote clock offset: -2.602 ms

# Below is generated by plot.py at 2019-07-12 01:26:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 54.736 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 54.736 ms
Loss rate: 1.35%
```

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

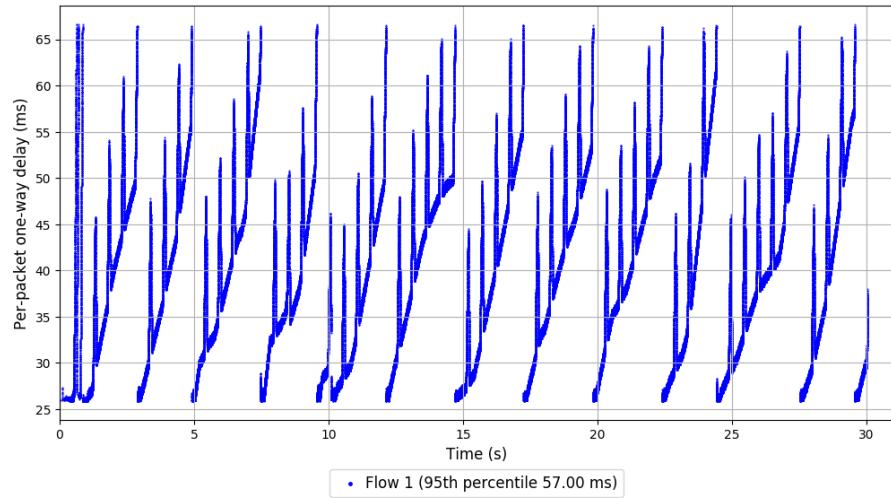
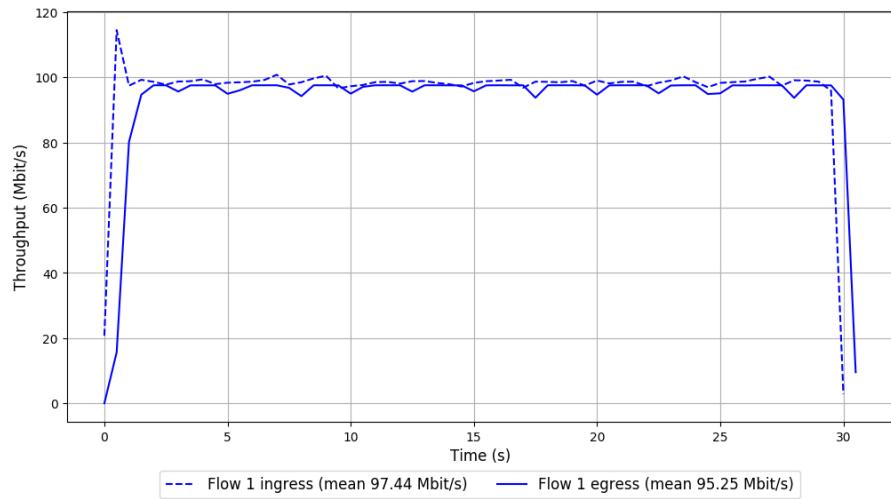


Run 3: Statistics of TCP BBR

```
Start at: 2019-07-11 23:57:11
End at: 2019-07-11 23:57:41
Local clock offset: 5.87 ms
Remote clock offset: -2.218 ms

# Below is generated by plot.py at 2019-07-12 01:26:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.25 Mbit/s
95th percentile per-packet one-way delay: 56.999 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 95.25 Mbit/s
95th percentile per-packet one-way delay: 56.999 ms
Loss rate: 2.21%
```

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

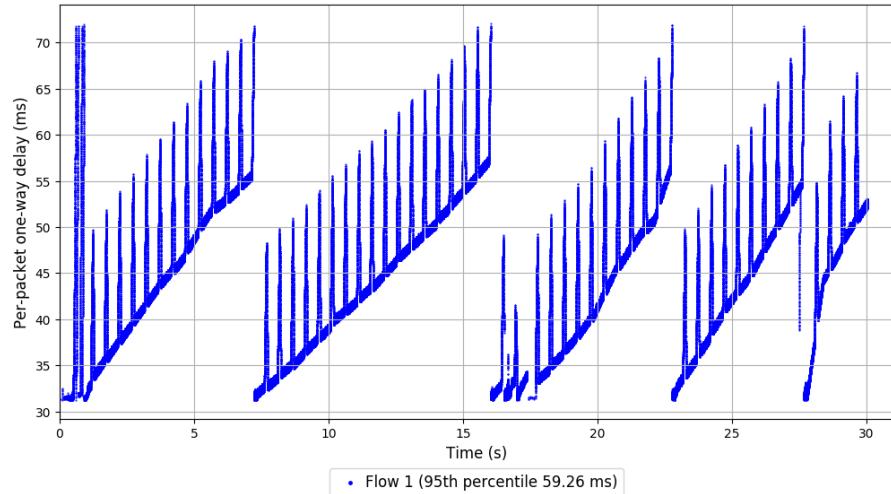
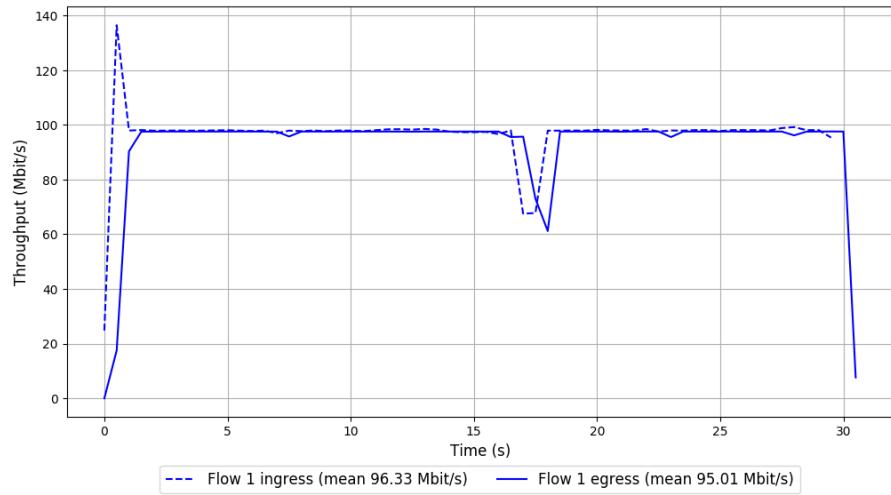


Run 4: Statistics of TCP BBR

```
Start at: 2019-07-12 00:31:33
End at: 2019-07-12 00:32:03
Local clock offset: 1.845 ms
Remote clock offset: -3.004 ms

# Below is generated by plot.py at 2019-07-12 01:26:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.01 Mbit/s
95th percentile per-packet one-way delay: 59.262 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 95.01 Mbit/s
95th percentile per-packet one-way delay: 59.262 ms
Loss rate: 1.30%
```

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

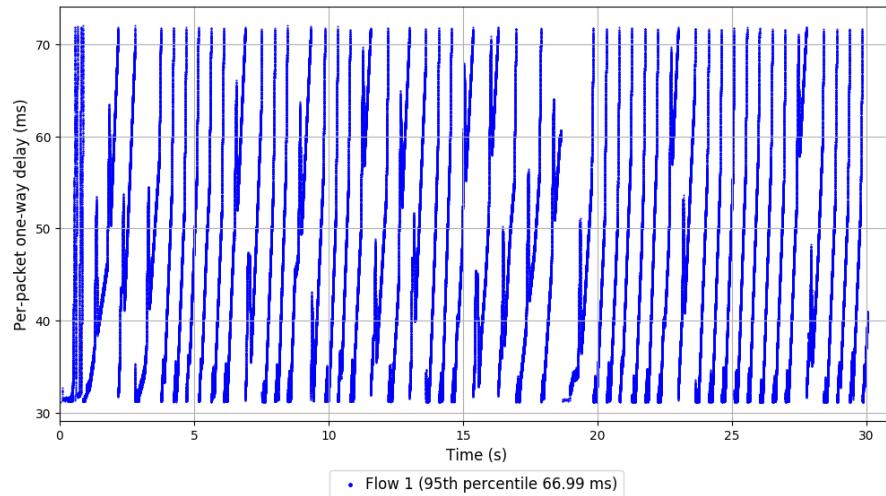
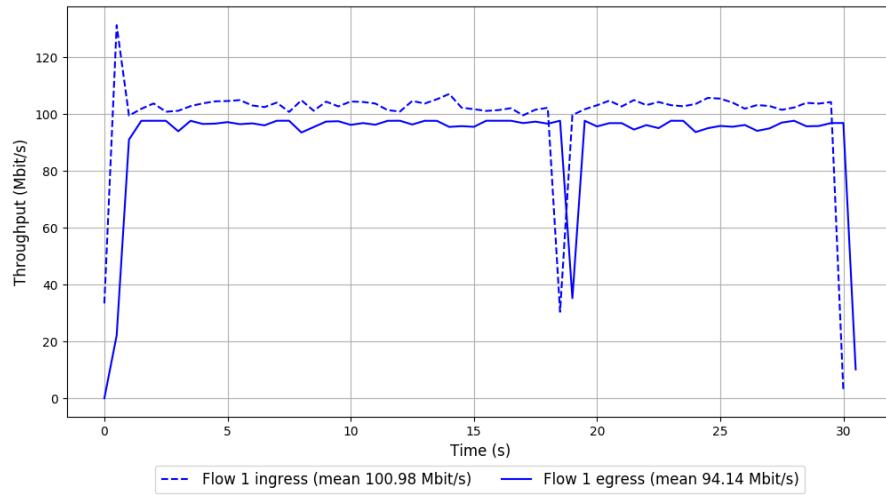


Run 5: Statistics of TCP BBR

```
Start at: 2019-07-12 01:04:02
End at: 2019-07-12 01:04:32
Local clock offset: 0.959 ms
Remote clock offset: -3.52 ms

# Below is generated by plot.py at 2019-07-12 01:26:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 66.992 ms
Loss rate: 6.74%
-- Flow 1:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 66.992 ms
Loss rate: 6.74%
```

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

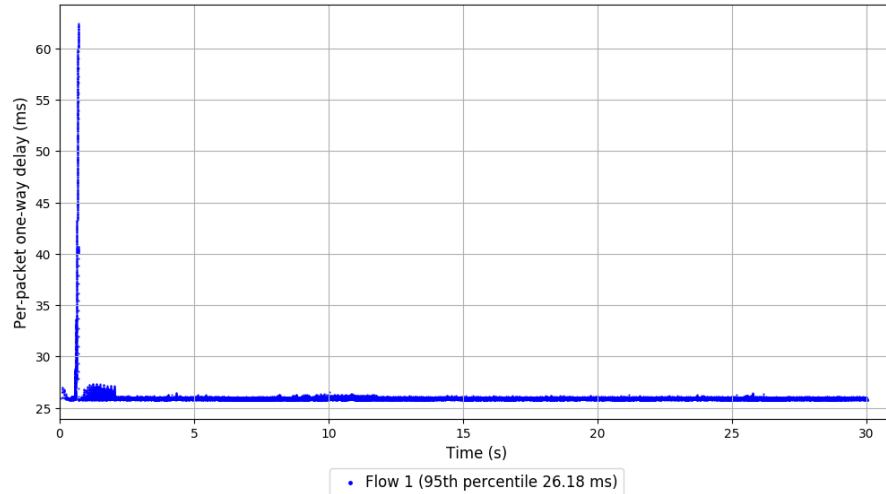
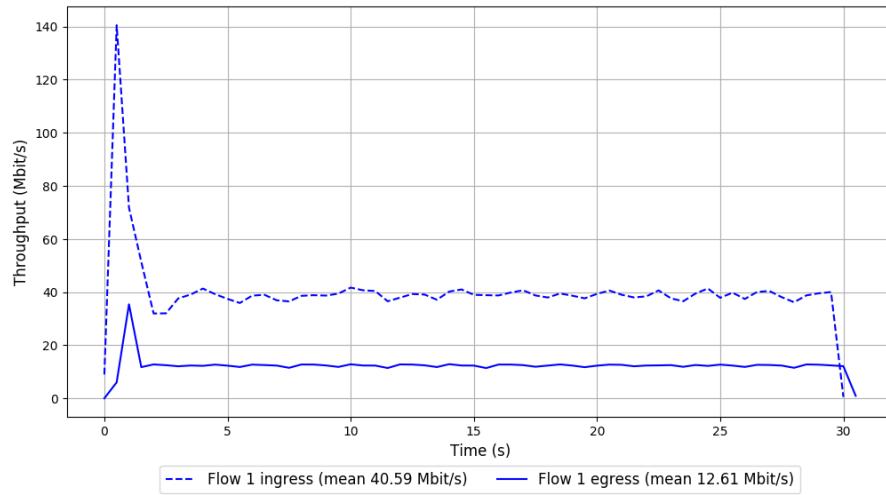


Run 1: Statistics of Copa

```
Start at: 2019-07-11 22:58:19
End at: 2019-07-11 22:58:49
Local clock offset: 6.126 ms
Remote clock offset: -2.67 ms

# Below is generated by plot.py at 2019-07-12 01:26:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 26.178 ms
Loss rate: 68.93%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 26.178 ms
Loss rate: 68.93%
```

## Run 1: Report of Copa — Data Link

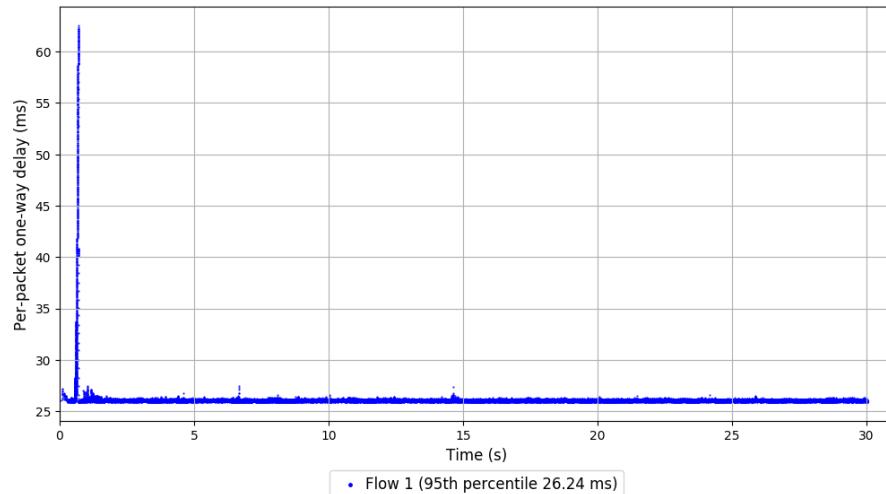
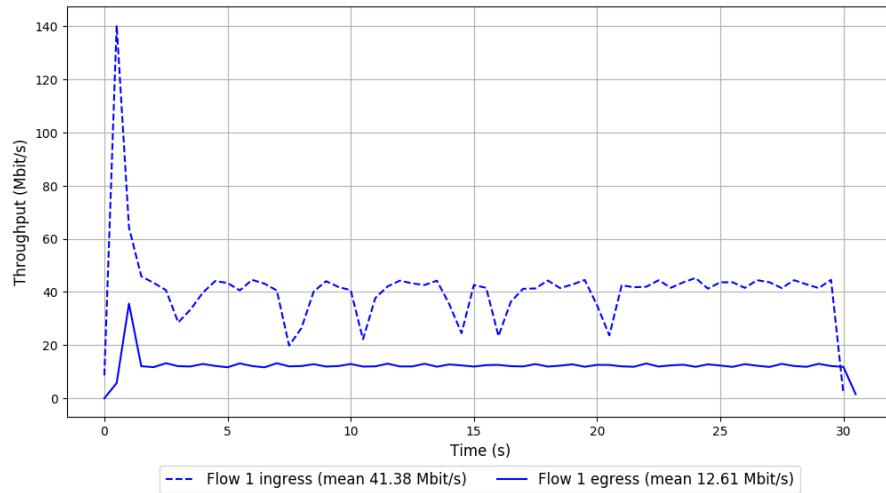


Run 2: Statistics of Copa

```
Start at: 2019-07-11 23:30:24
End at: 2019-07-11 23:30:54
Local clock offset: 5.705 ms
Remote clock offset: -2.506 ms

# Below is generated by plot.py at 2019-07-12 01:26:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 26.242 ms
Loss rate: 69.53%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 26.242 ms
Loss rate: 69.53%
```

## Run 2: Report of Copa — Data Link

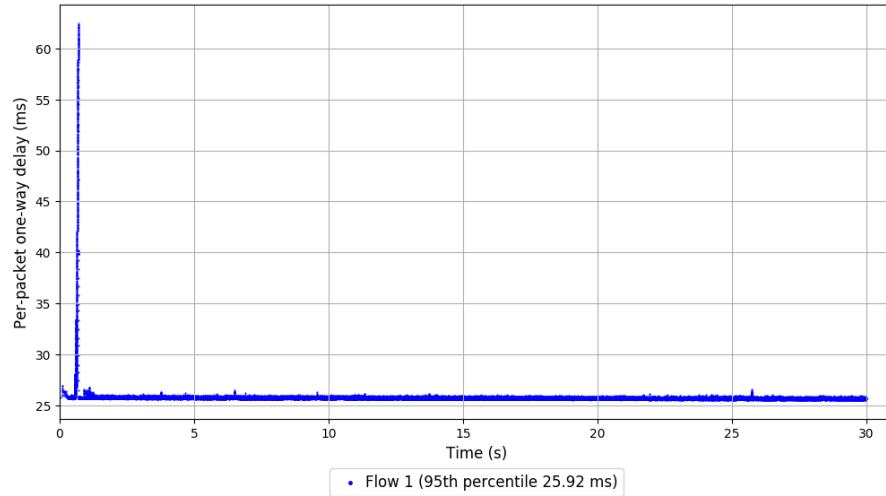
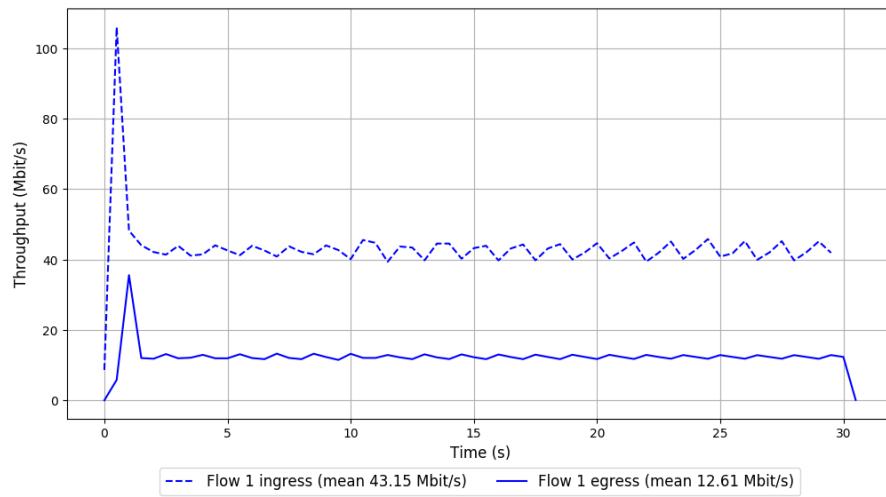


Run 3: Statistics of Copa

```
Start at: 2019-07-12 00:00:50
End at: 2019-07-12 00:01:20
Local clock offset: 5.27 ms
Remote clock offset: -2.362 ms

# Below is generated by plot.py at 2019-07-12 01:26:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 25.919 ms
Loss rate: 70.77%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 25.919 ms
Loss rate: 70.77%
```

### Run 3: Report of Copa — Data Link

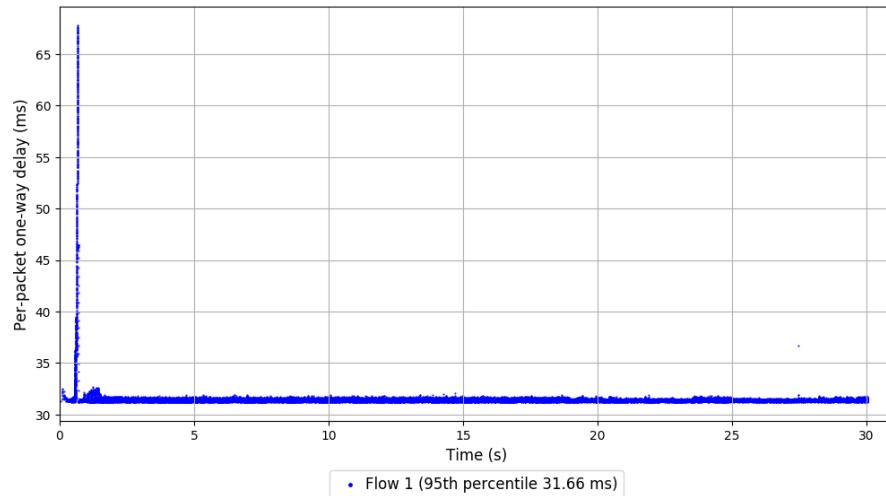
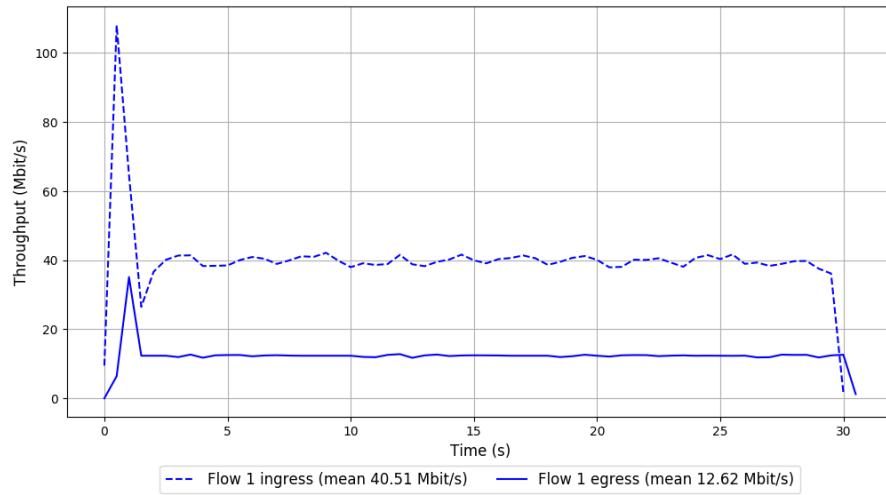


Run 4: Statistics of Copa

```
Start at: 2019-07-12 00:35:13
End at: 2019-07-12 00:35:43
Local clock offset: 2.139 ms
Remote clock offset: -3.001 ms

# Below is generated by plot.py at 2019-07-12 01:26:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 31.660 ms
Loss rate: 68.86%
-- Flow 1:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 31.660 ms
Loss rate: 68.86%
```

## Run 4: Report of Copa — Data Link

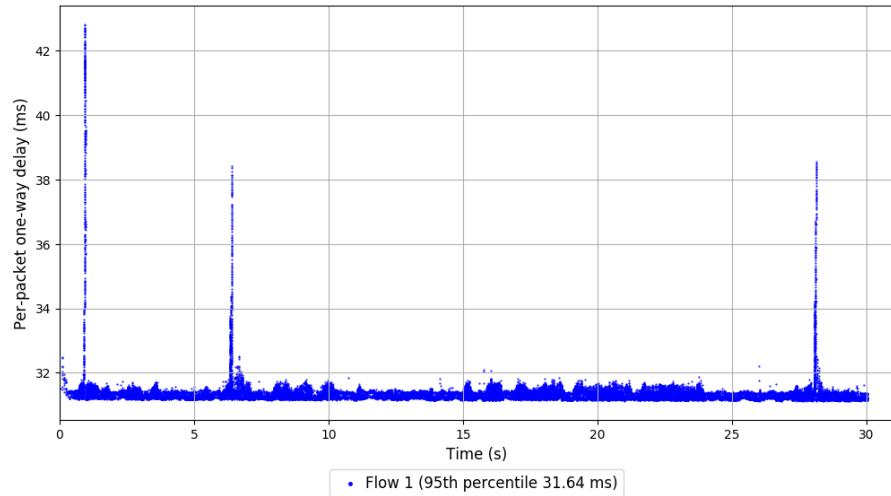
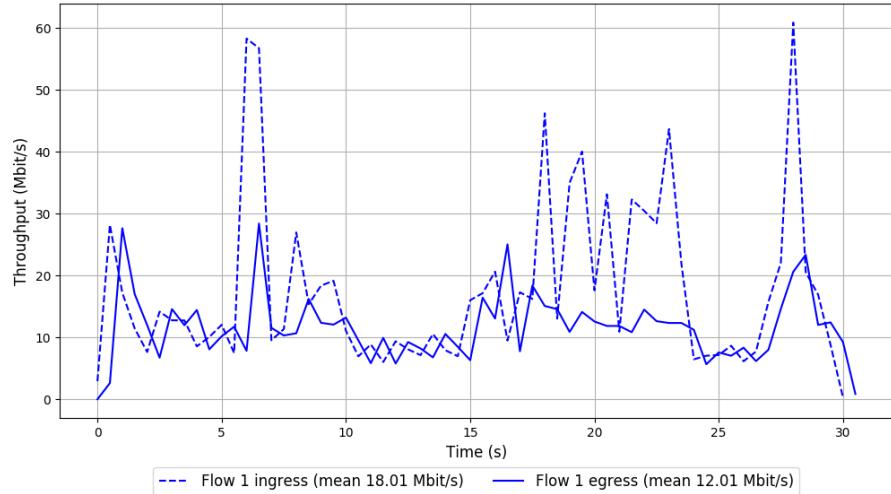


Run 5: Statistics of Copa

```
Start at: 2019-07-12 01:08:23
End at: 2019-07-12 01:08:53
Local clock offset: 0.271 ms
Remote clock offset: -3.776 ms

# Below is generated by plot.py at 2019-07-12 01:26:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.01 Mbit/s
95th percentile per-packet one-way delay: 31.644 ms
Loss rate: 33.32%
-- Flow 1:
Average throughput: 12.01 Mbit/s
95th percentile per-packet one-way delay: 31.644 ms
Loss rate: 33.32%
```

## Run 5: Report of Copa — Data Link

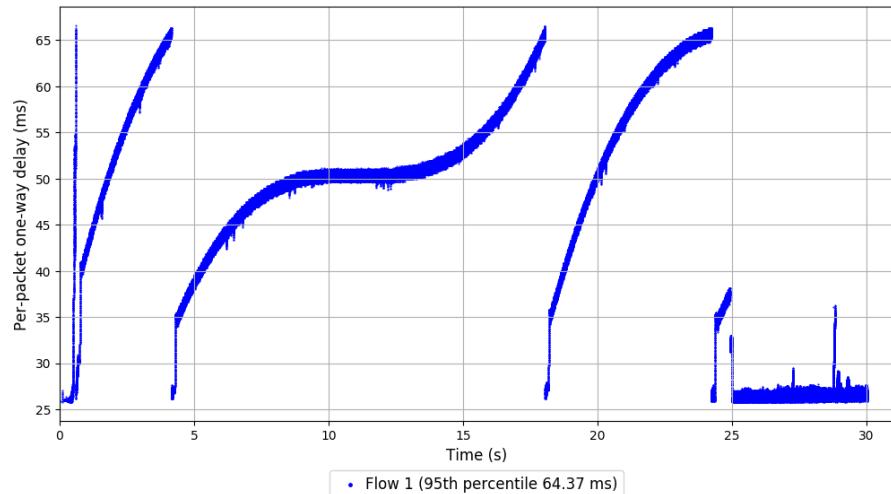
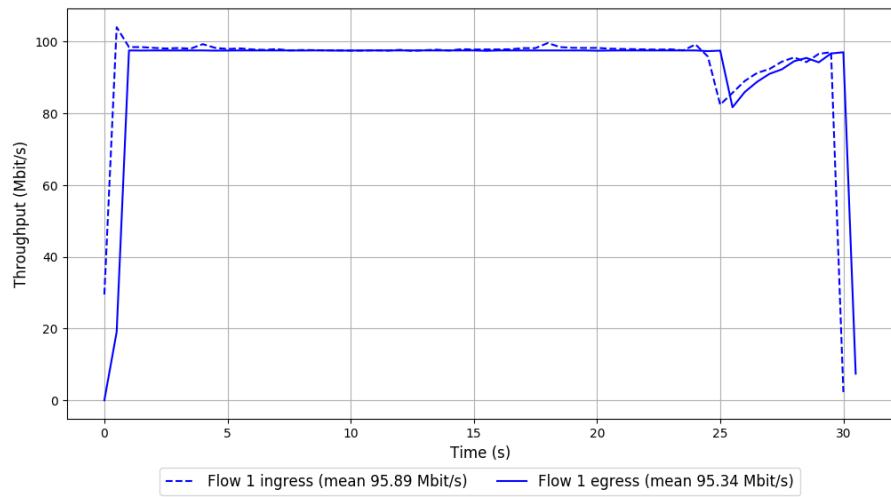


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-07-11 23:03:04
End at: 2019-07-11 23:03:34
Local clock offset: 5.935 ms
Remote clock offset: -2.671 ms

# Below is generated by plot.py at 2019-07-12 01:26:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.34 Mbit/s
95th percentile per-packet one-way delay: 64.368 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 95.34 Mbit/s
95th percentile per-packet one-way delay: 64.368 ms
Loss rate: 0.57%
```

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

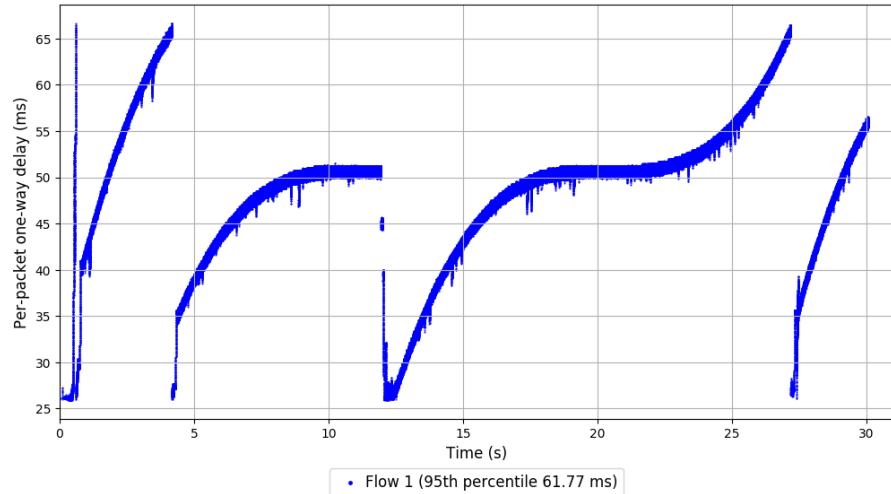
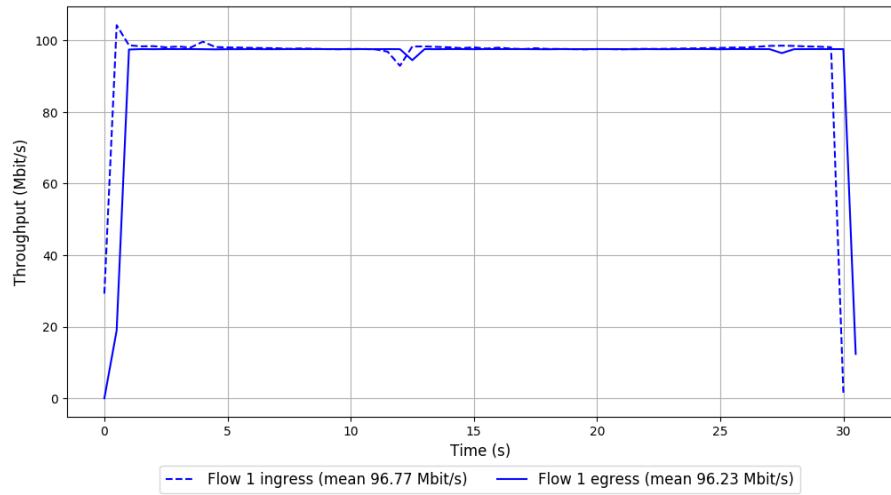


Run 2: Statistics of TCP Cubic

```
Start at: 2019-07-11 23:35:21
End at: 2019-07-11 23:35:51
Local clock offset: 5.727 ms
Remote clock offset: -2.5 ms

# Below is generated by plot.py at 2019-07-12 01:27:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 61.771 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 61.771 ms
Loss rate: 0.46%
```

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

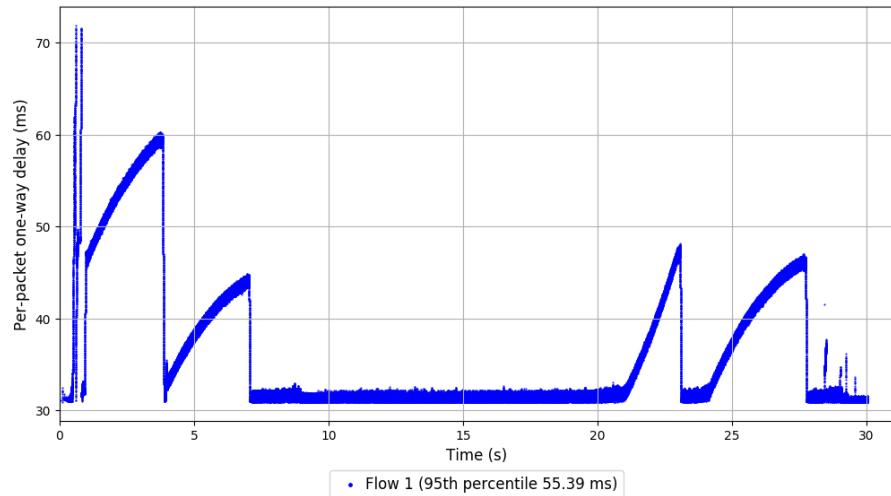
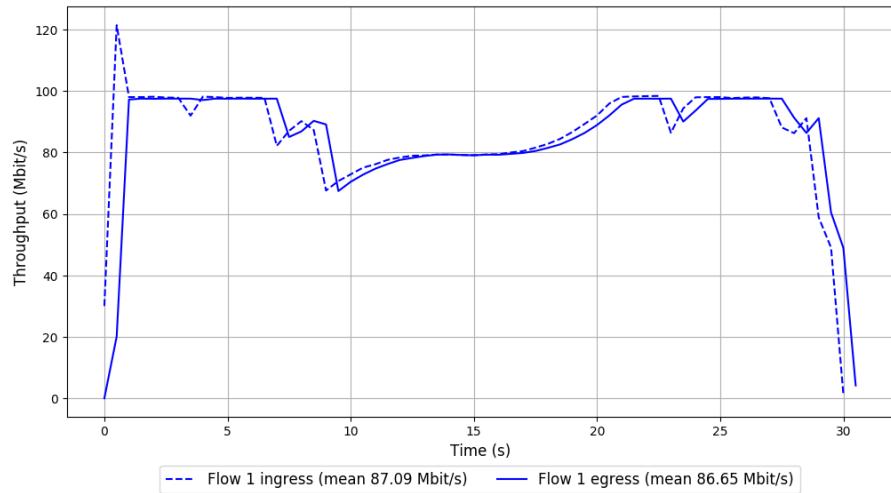


Run 3: Statistics of TCP Cubic

```
Start at: 2019-07-12 00:10:13
End at: 2019-07-12 00:10:43
Local clock offset: 3.228 ms
Remote clock offset: -2.616 ms

# Below is generated by plot.py at 2019-07-12 01:27:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.65 Mbit/s
95th percentile per-packet one-way delay: 55.394 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 86.65 Mbit/s
95th percentile per-packet one-way delay: 55.394 ms
Loss rate: 0.51%
```

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

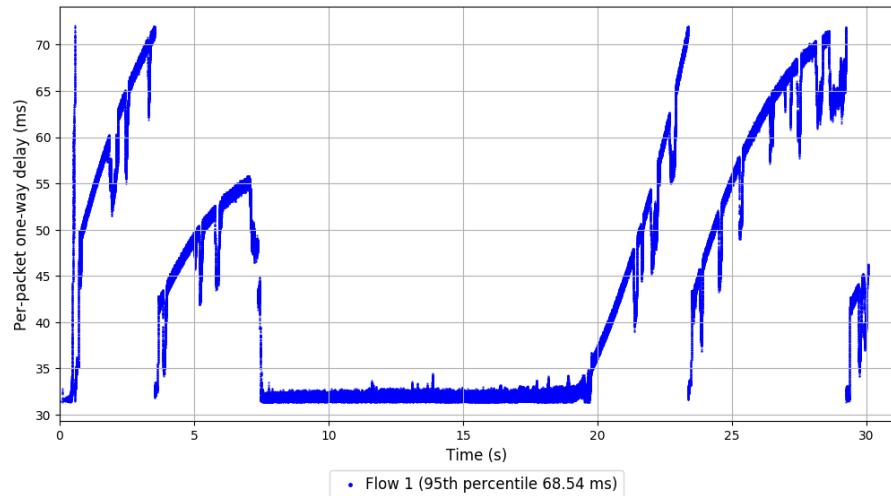
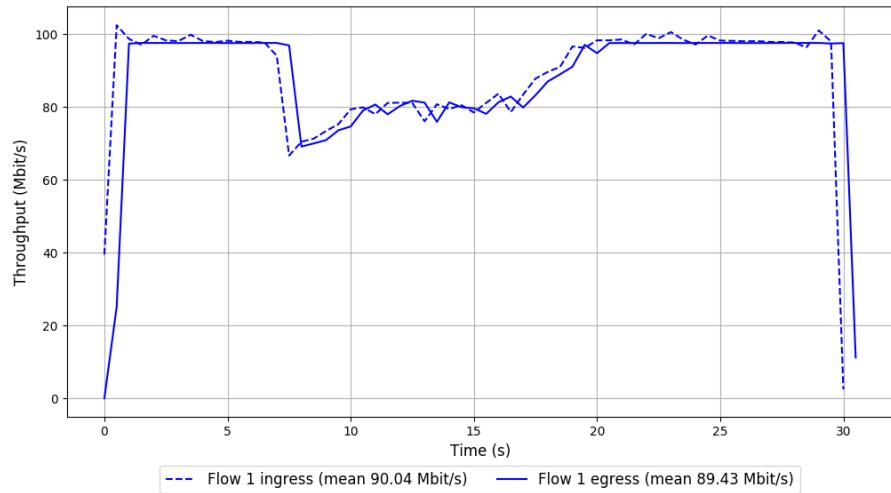


Run 4: Statistics of TCP Cubic

```
Start at: 2019-07-12 00:40:17
End at: 2019-07-12 00:40:47
Local clock offset: 2.297 ms
Remote clock offset: -2.981 ms

# Below is generated by plot.py at 2019-07-12 01:27:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.43 Mbit/s
95th percentile per-packet one-way delay: 68.538 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 89.43 Mbit/s
95th percentile per-packet one-way delay: 68.538 ms
Loss rate: 0.63%
```

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

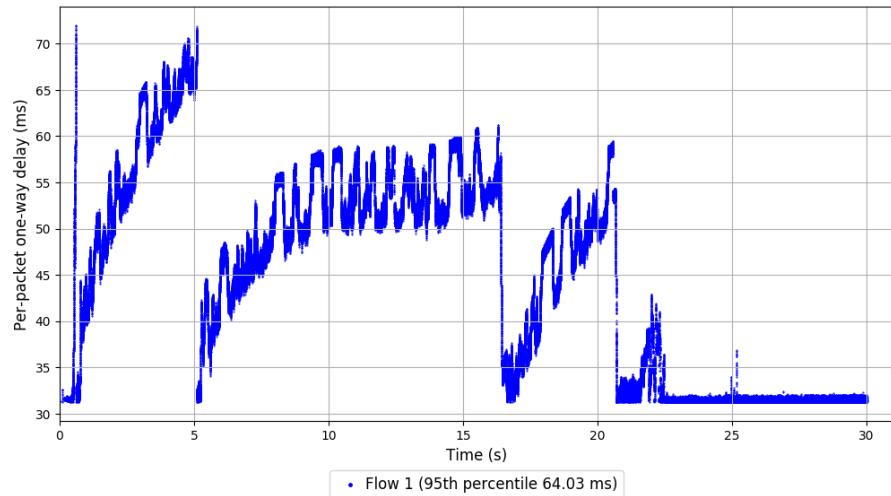
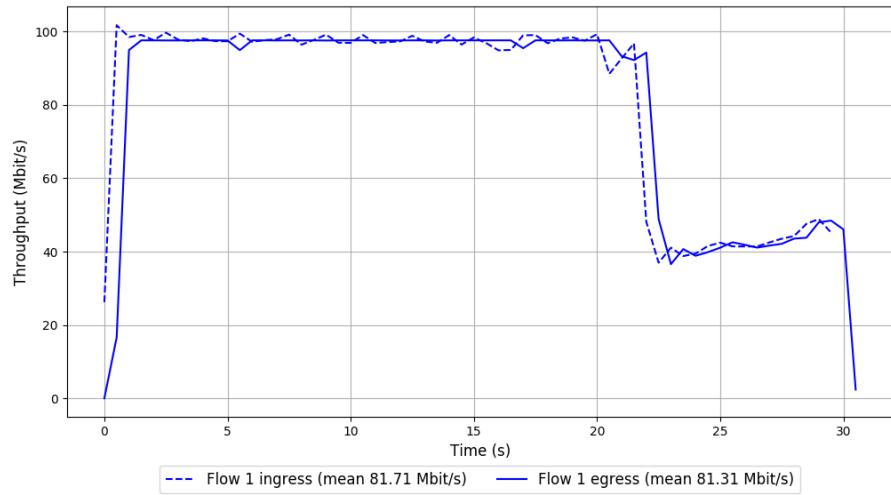


Run 5: Statistics of TCP Cubic

```
Start at: 2019-07-12 01:14:39
End at: 2019-07-12 01:15:09
Local clock offset: -0.404 ms
Remote clock offset: -3.988 ms

# Below is generated by plot.py at 2019-07-12 01:27:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.31 Mbit/s
95th percentile per-packet one-way delay: 64.026 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 81.31 Mbit/s
95th percentile per-packet one-way delay: 64.026 ms
Loss rate: 0.49%
```

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

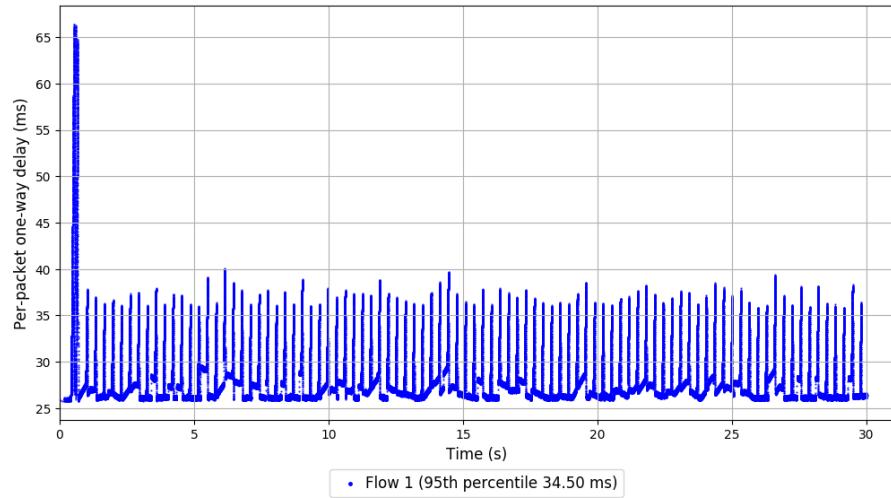
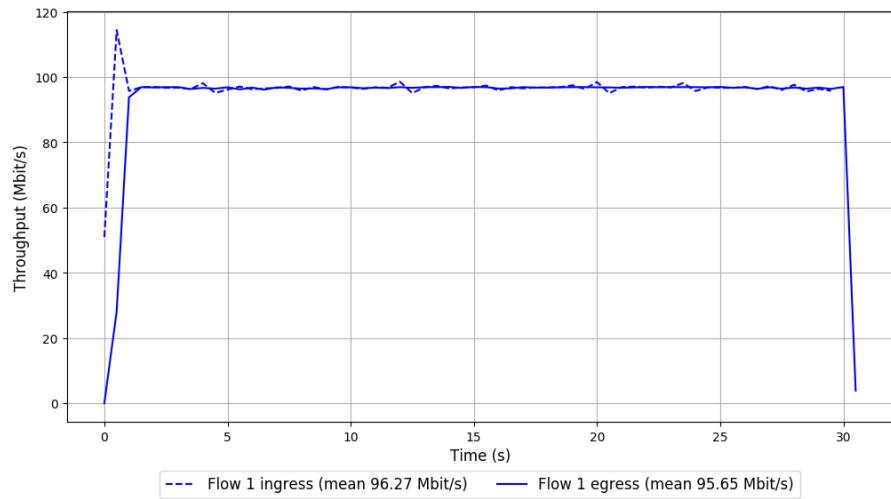


```
Run 1: Statistics of FillP
```

```
Start at: 2019-07-11 23:06:58
End at: 2019-07-11 23:07:28
Local clock offset: 5.812 ms
Remote clock offset: -2.7 ms

# Below is generated by plot.py at 2019-07-12 01:28:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 34.501 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 34.501 ms
Loss rate: 0.64%
```

## Run 1: Report of FillP — Data Link

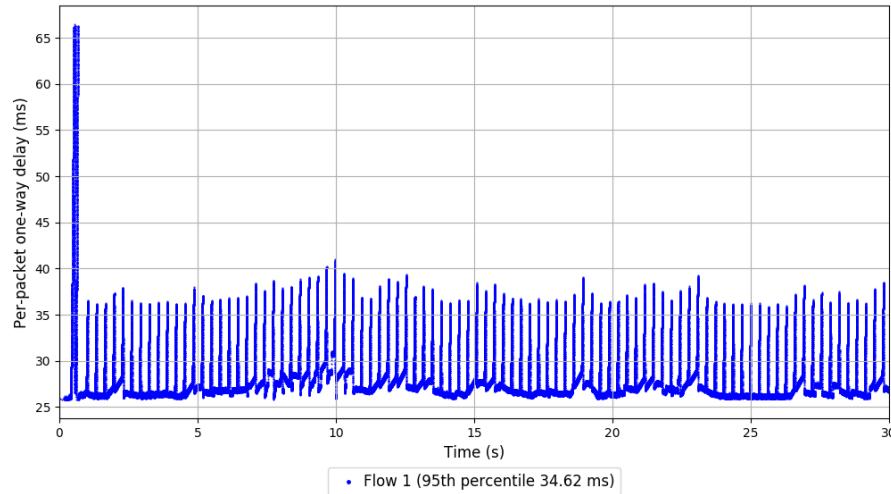
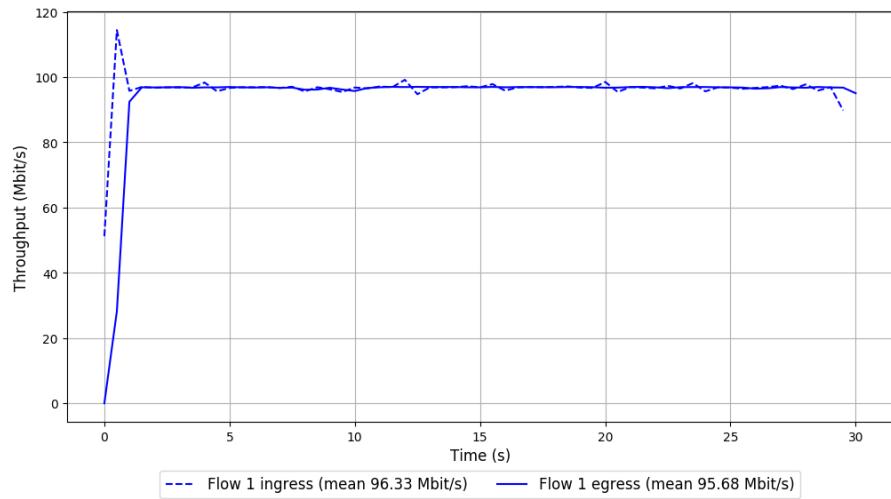


Run 2: Statistics of FillP

```
Start at: 2019-07-11 23:39:07
End at: 2019-07-11 23:39:37
Local clock offset: 5.71 ms
Remote clock offset: -2.391 ms

# Below is generated by plot.py at 2019-07-12 01:28:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 34.616 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 34.616 ms
Loss rate: 0.67%
```

## Run 2: Report of FillP — Data Link

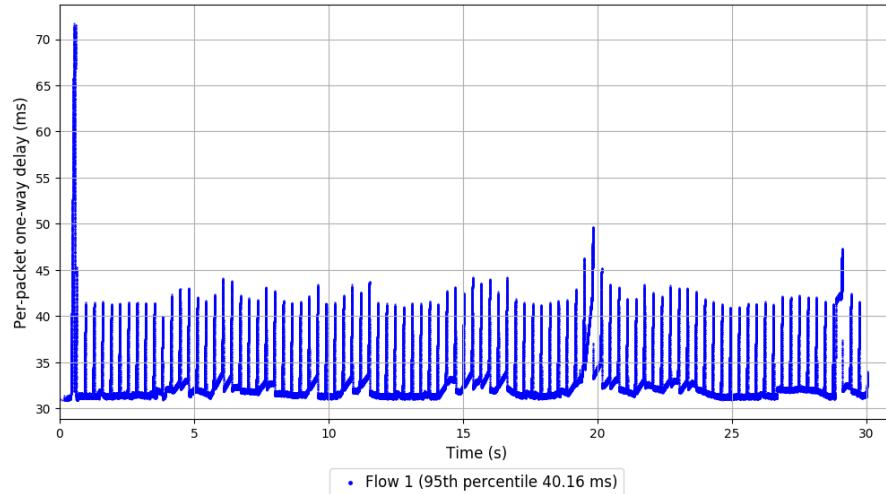
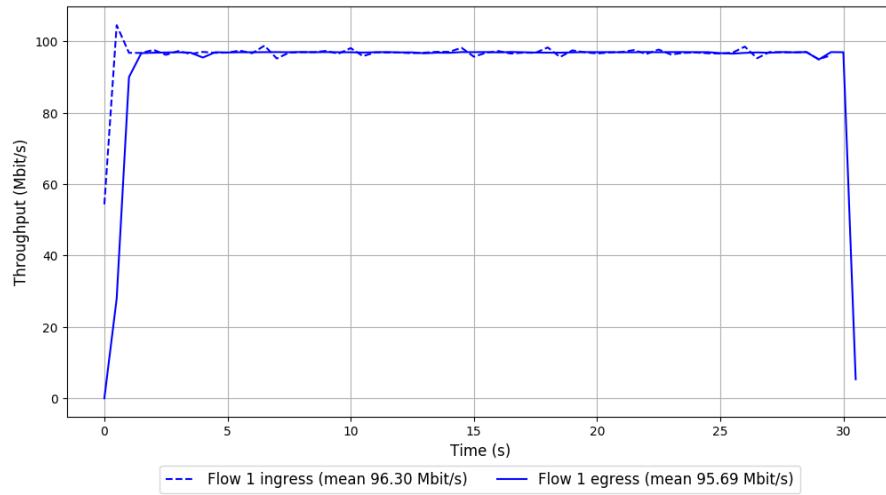


Run 3: Statistics of FillP

```
Start at: 2019-07-12 00:13:58
End at: 2019-07-12 00:14:28
Local clock offset: 2.769 ms
Remote clock offset: -2.735 ms

# Below is generated by plot.py at 2019-07-12 01:28:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 40.157 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 40.157 ms
Loss rate: 0.63%
```

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

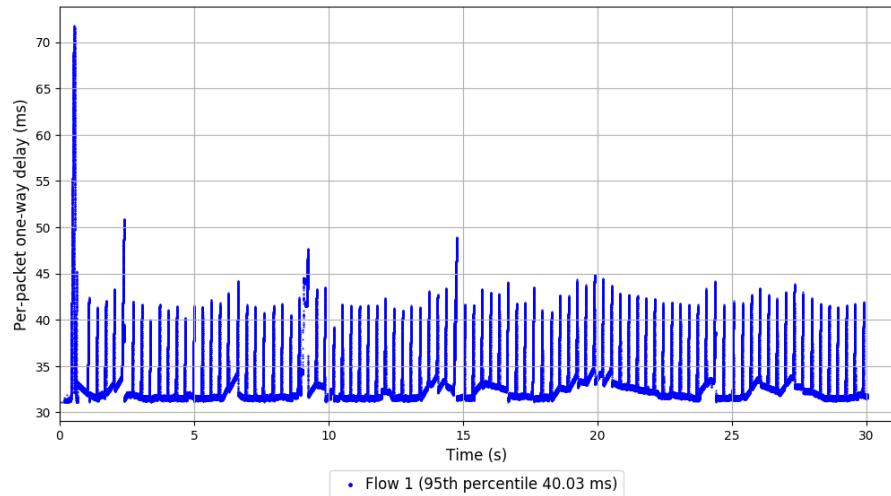
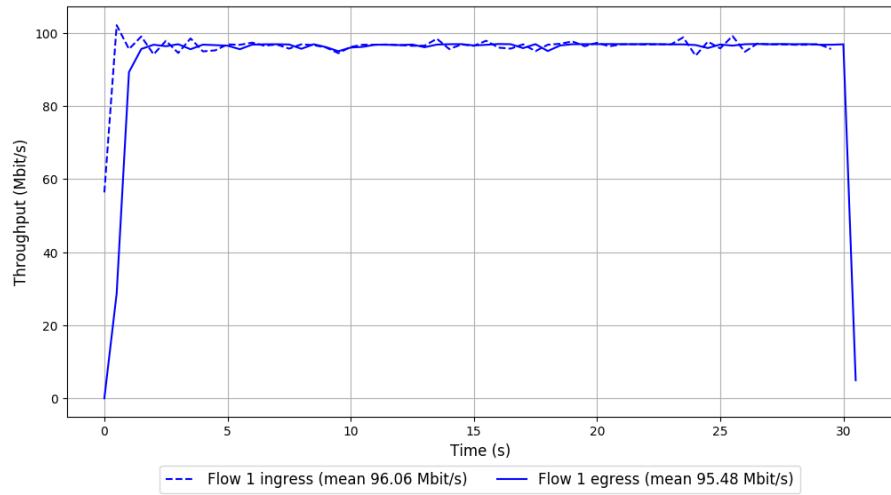


Run 4: Statistics of FillP

```
Start at: 2019-07-12 00:44:15
End at: 2019-07-12 00:44:45
Local clock offset: 2.304 ms
Remote clock offset: -3.139 ms

# Below is generated by plot.py at 2019-07-12 01:28:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 40.026 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 40.026 ms
Loss rate: 0.60%
```

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

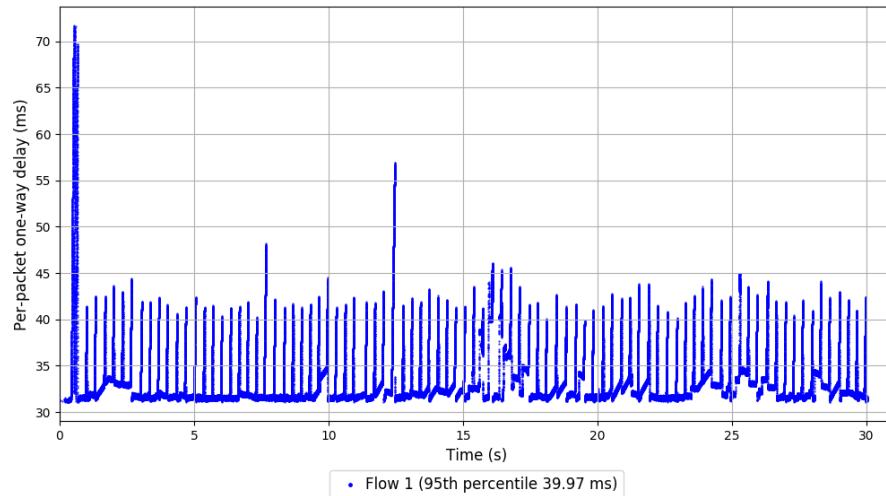
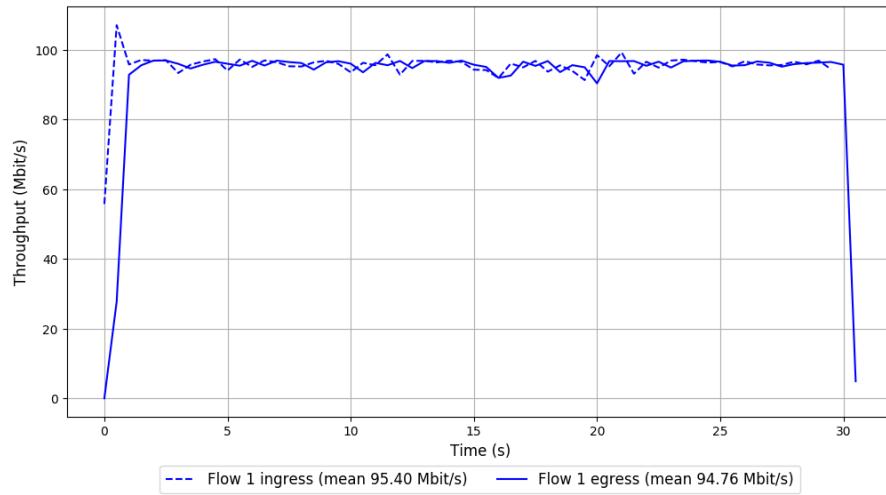


Run 5: Statistics of FillP

```
Start at: 2019-07-12 01:19:50
End at: 2019-07-12 01:20:20
Local clock offset: -0.86 ms
Remote clock offset: -4.205 ms

# Below is generated by plot.py at 2019-07-12 01:28:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.76 Mbit/s
95th percentile per-packet one-way delay: 39.967 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 94.76 Mbit/s
95th percentile per-packet one-way delay: 39.967 ms
Loss rate: 0.66%
```

## Run 5: Report of FillP — Data Link

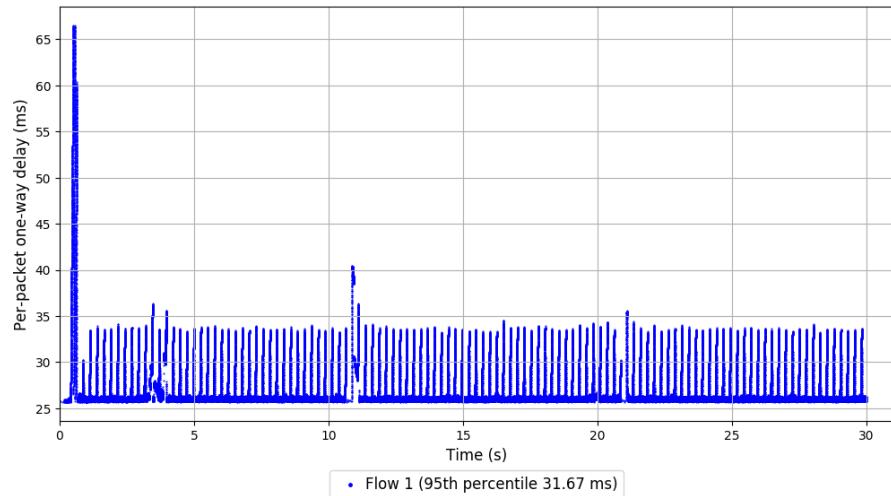
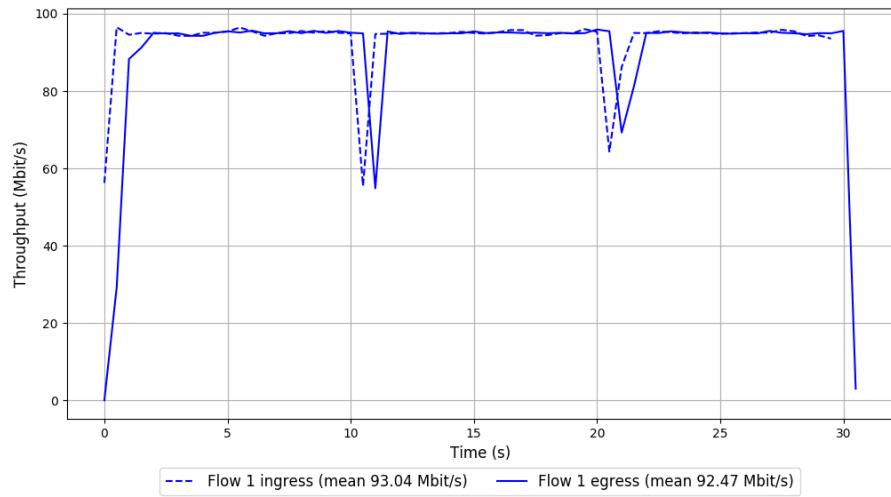


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-07-11 22:46:38
End at: 2019-07-11 22:47:08
Local clock offset: 5.849 ms
Remote clock offset: -2.885 ms

# Below is generated by plot.py at 2019-07-12 01:28:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.47 Mbit/s
95th percentile per-packet one-way delay: 31.674 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 92.47 Mbit/s
95th percentile per-packet one-way delay: 31.674 ms
Loss rate: 0.60%
```

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

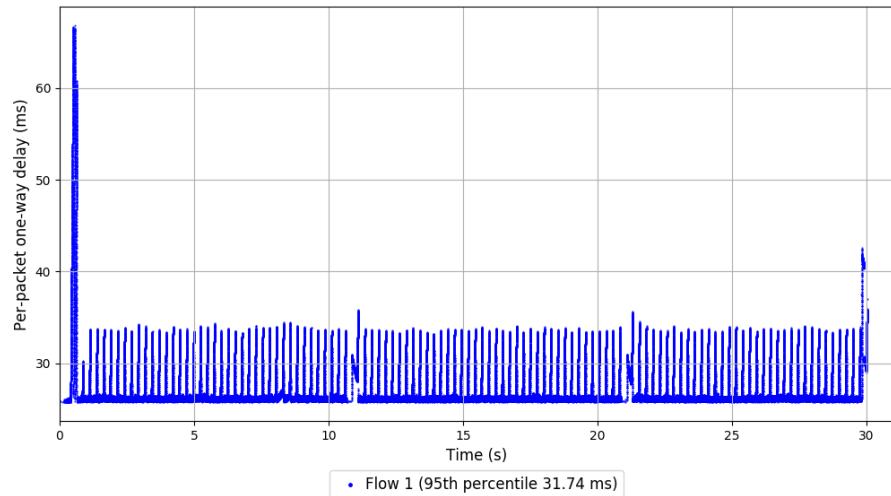
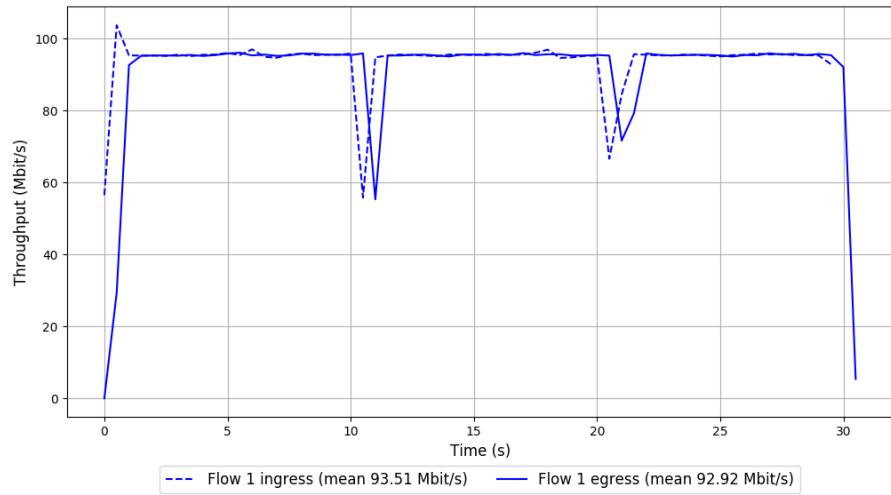


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-07-11 23:17:31
End at: 2019-07-11 23:18:01
Local clock offset: 5.677 ms
Remote clock offset: -2.666 ms

# Below is generated by plot.py at 2019-07-12 01:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.92 Mbit/s
95th percentile per-packet one-way delay: 31.741 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 92.92 Mbit/s
95th percentile per-packet one-way delay: 31.741 ms
Loss rate: 0.59%
```

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

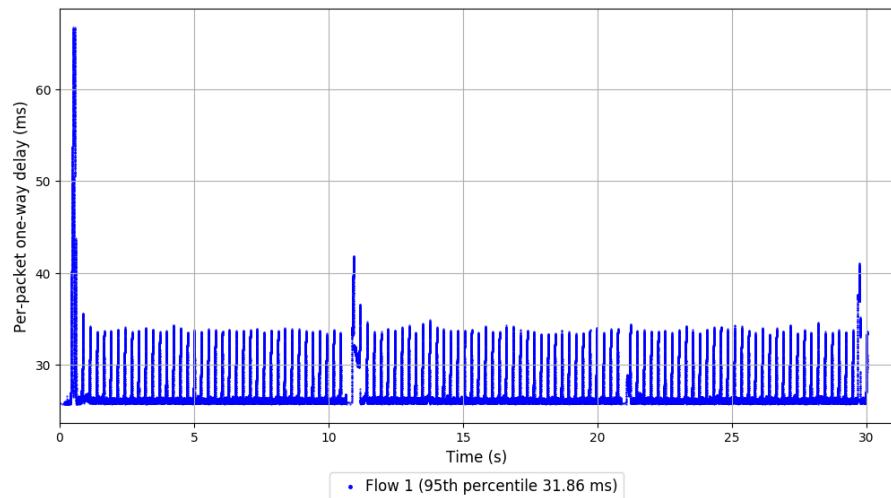
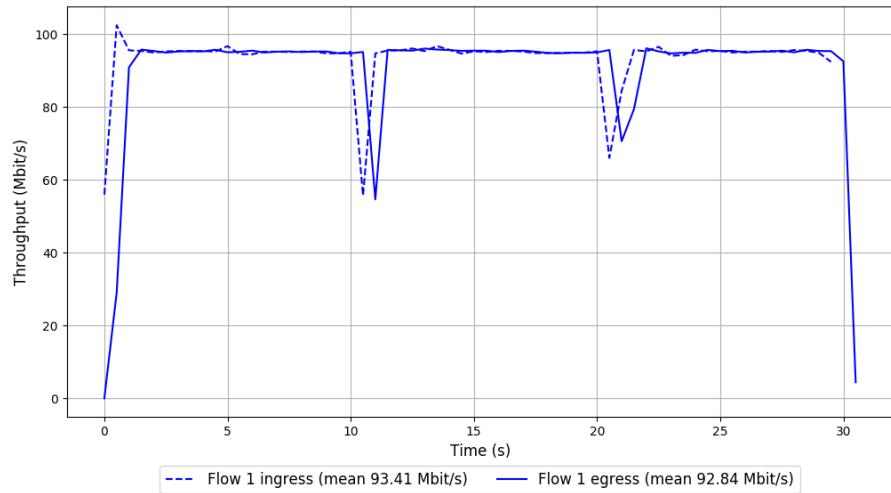


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-07-11 23:49:15
End at: 2019-07-11 23:49:45
Local clock offset: 5.774 ms
Remote clock offset: -2.318 ms

# Below is generated by plot.py at 2019-07-12 01:29:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.84 Mbit/s
95th percentile per-packet one-way delay: 31.861 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 92.84 Mbit/s
95th percentile per-packet one-way delay: 31.861 ms
Loss rate: 0.60%
```

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

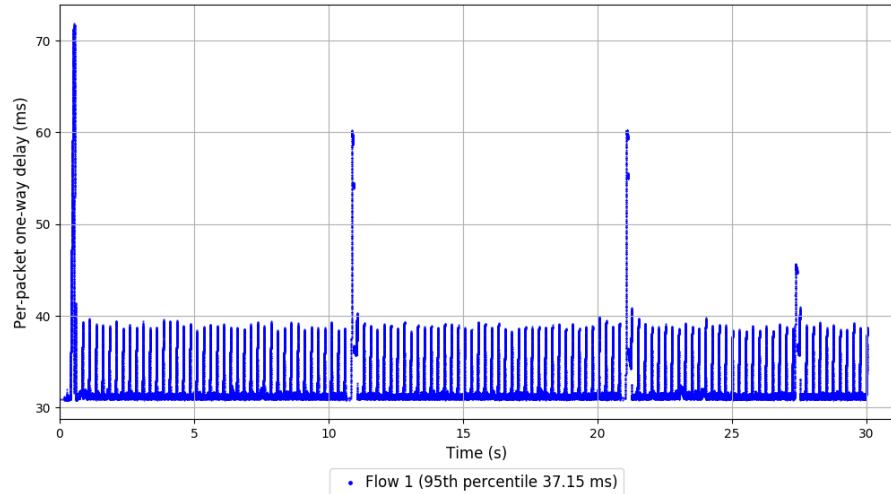
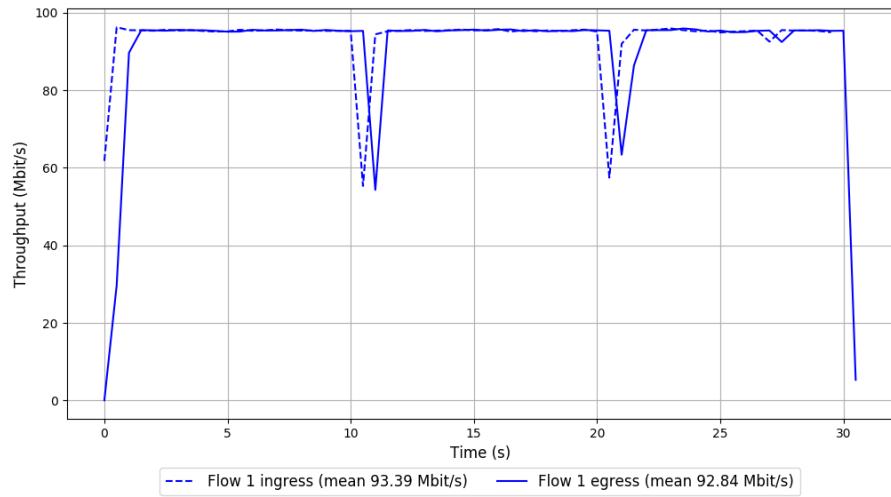


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-07-12 00:24:00
End at: 2019-07-12 00:24:30
Local clock offset: 1.876 ms
Remote clock offset: -2.871 ms

# Below is generated by plot.py at 2019-07-12 01:29:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.84 Mbit/s
95th percentile per-packet one-way delay: 37.148 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 92.84 Mbit/s
95th percentile per-packet one-way delay: 37.148 ms
Loss rate: 0.58%
```

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

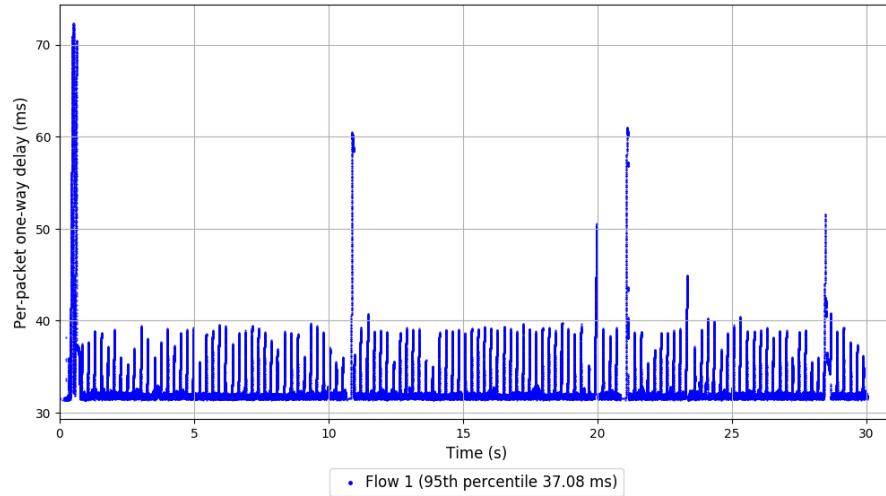
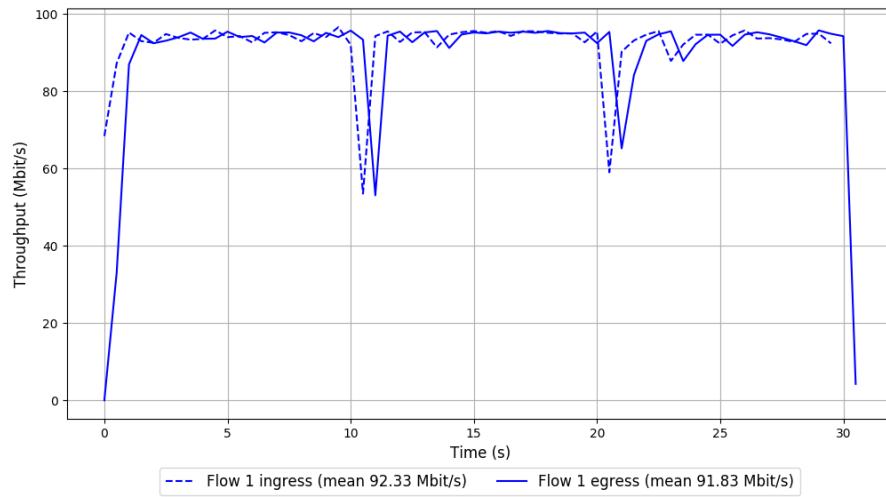


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-07-12 00:55:02
End at: 2019-07-12 00:55:32
Local clock offset: 2.139 ms
Remote clock offset: -3.194 ms

# Below is generated by plot.py at 2019-07-12 01:29:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.83 Mbit/s
95th percentile per-packet one-way delay: 37.078 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 91.83 Mbit/s
95th percentile per-packet one-way delay: 37.078 ms
Loss rate: 0.54%
```

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

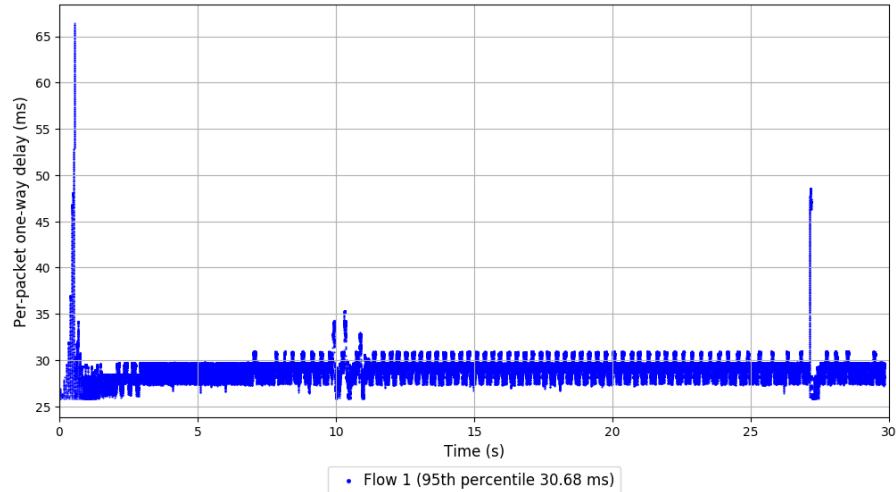
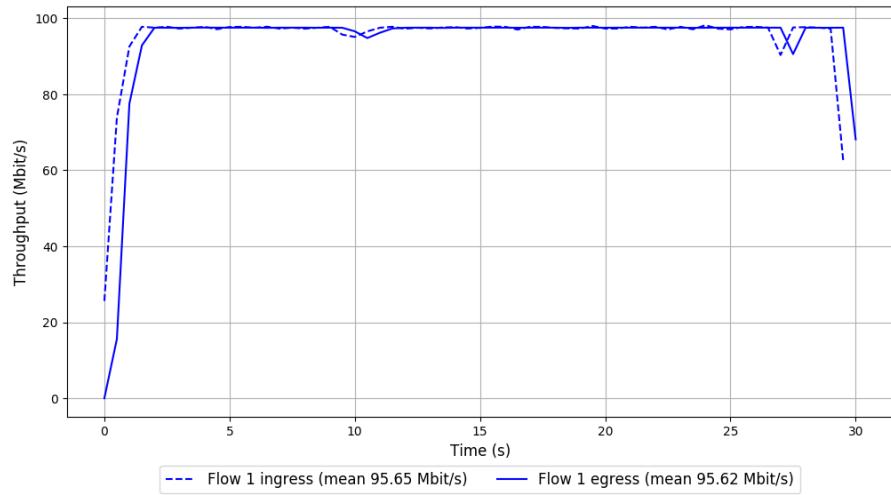


Run 1: Statistics of Indigo

```
Start at: 2019-07-11 22:47:53
End at: 2019-07-11 22:48:23
Local clock offset: 5.885 ms
Remote clock offset: -2.782 ms

# Below is generated by plot.py at 2019-07-12 01:29:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 30.680 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 30.680 ms
Loss rate: 0.01%
```

## Run 1: Report of Indigo — Data Link

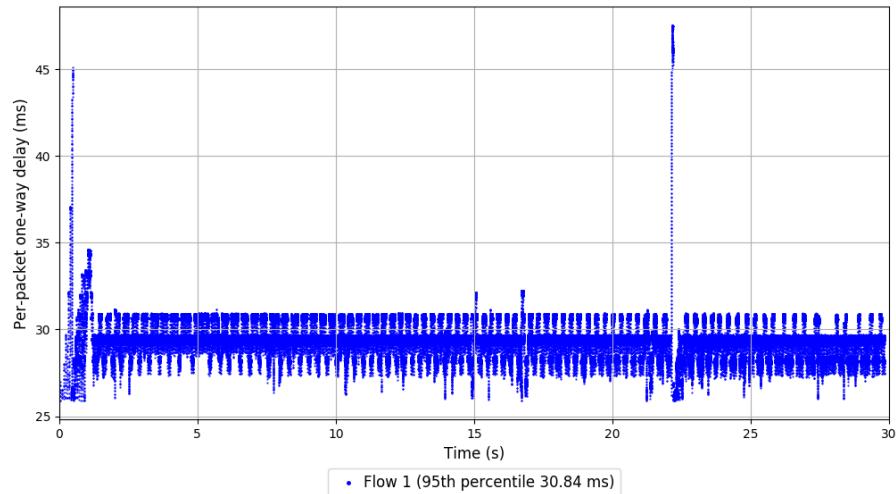
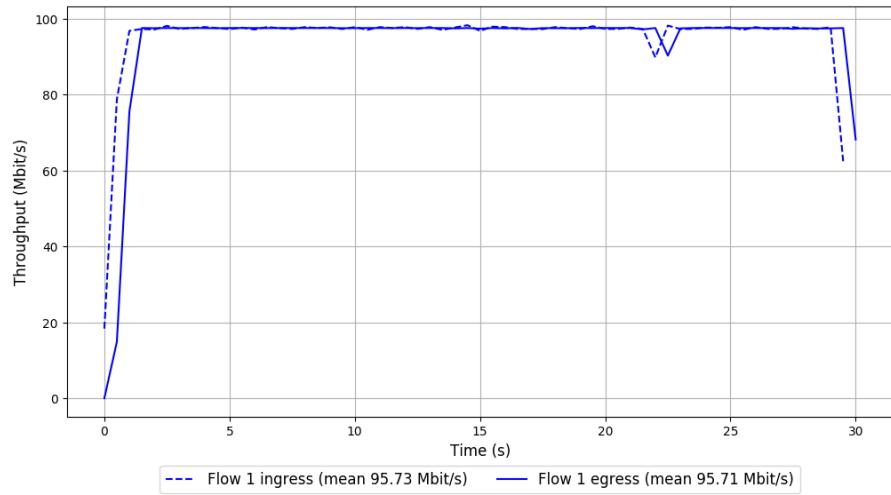


Run 2: Statistics of Indigo

```
Start at: 2019-07-11 23:18:50
End at: 2019-07-11 23:19:20
Local clock offset: 5.658 ms
Remote clock offset: -2.667 ms

# Below is generated by plot.py at 2019-07-12 01:29:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 30.844 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 30.844 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo — Data Link

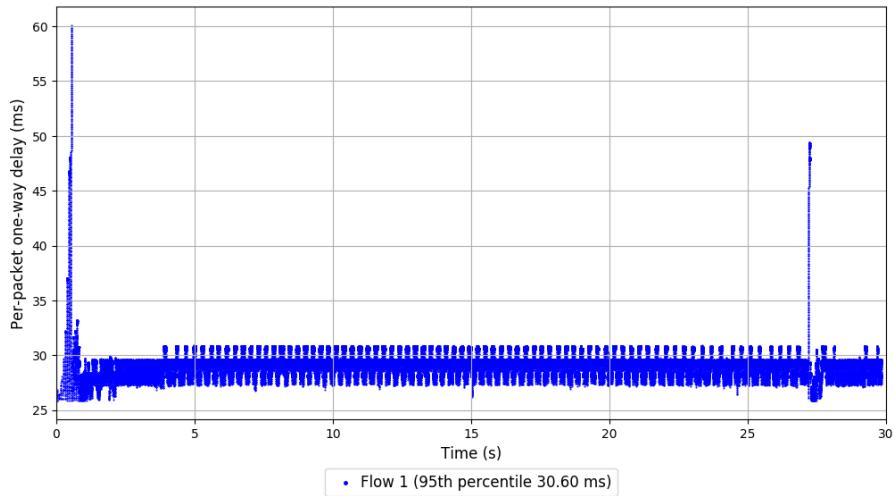
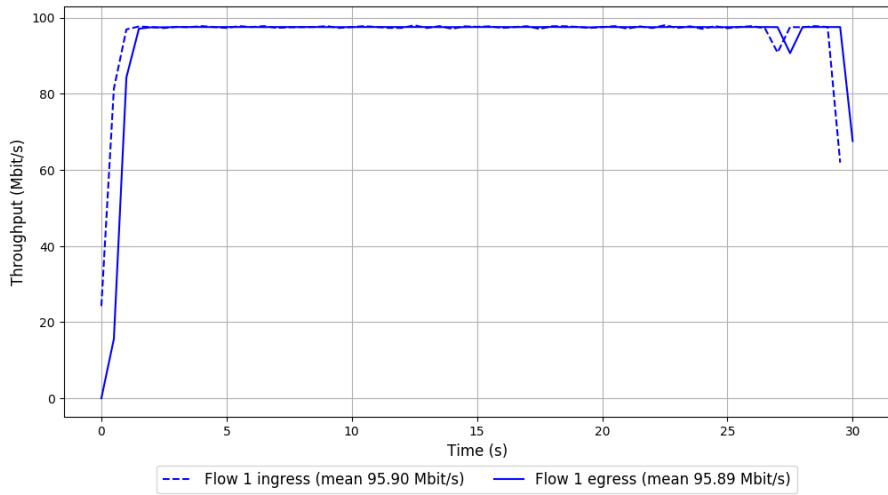


Run 3: Statistics of Indigo

```
Start at: 2019-07-11 23:50:35
End at: 2019-07-11 23:51:05
Local clock offset: 5.797 ms
Remote clock offset: -2.316 ms

# Below is generated by plot.py at 2019-07-12 01:29:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 30.601 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 30.601 ms
Loss rate: 0.00%
```

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

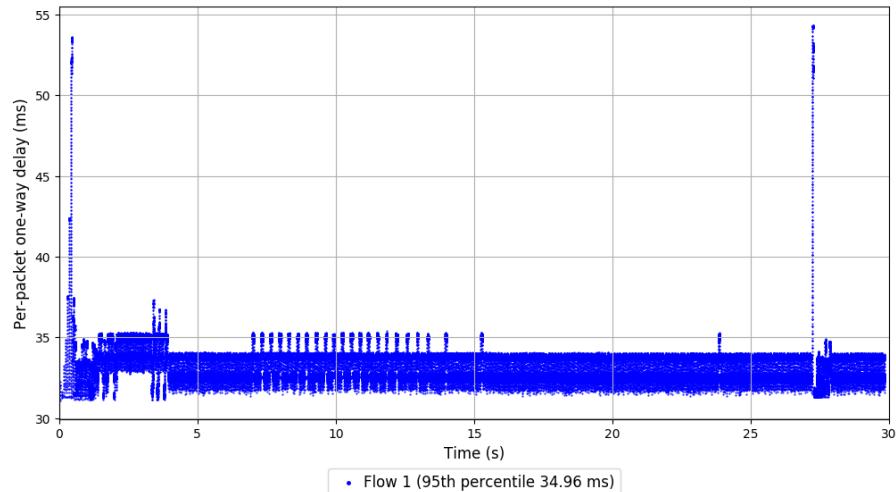
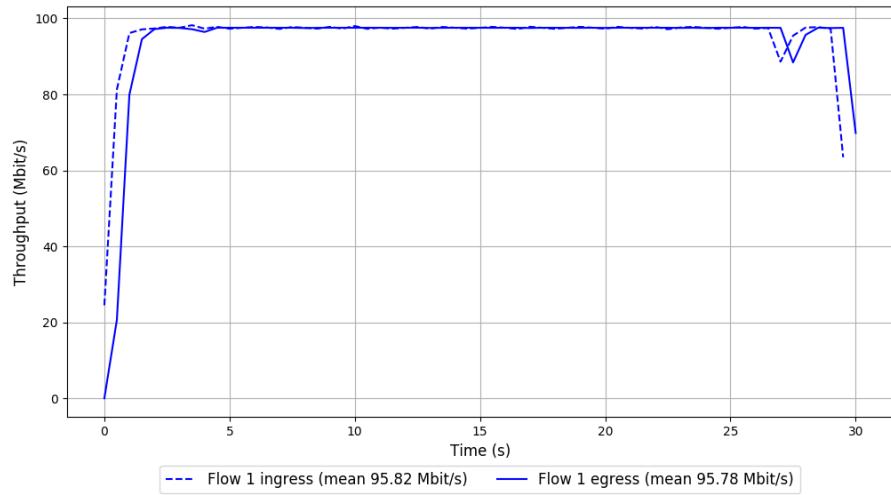


Run 4: Statistics of Indigo

```
Start at: 2019-07-12 00:25:15
End at: 2019-07-12 00:25:45
Local clock offset: 1.815 ms
Remote clock offset: -2.928 ms

# Below is generated by plot.py at 2019-07-12 01:29:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.78 Mbit/s
95th percentile per-packet one-way delay: 34.958 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.78 Mbit/s
95th percentile per-packet one-way delay: 34.958 ms
Loss rate: 0.04%
```

## Run 4: Report of Indigo — Data Link

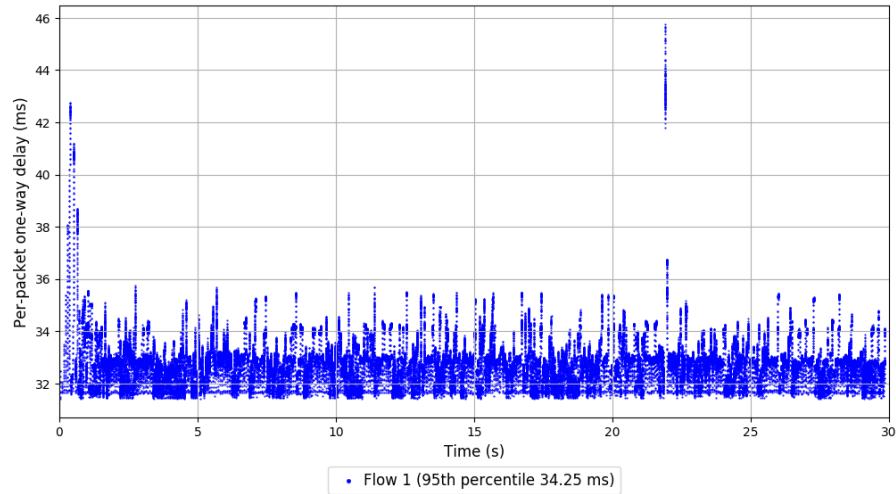
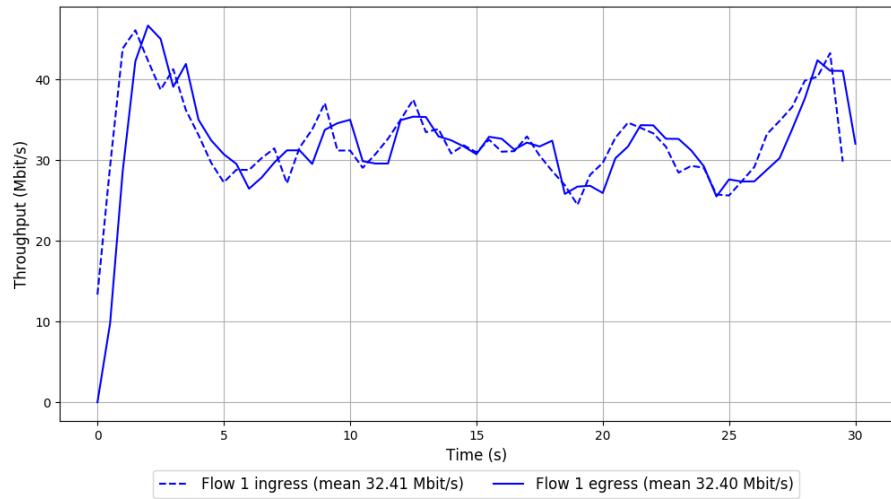


Run 5: Statistics of Indigo

```
Start at: 2019-07-12 00:56:35
End at: 2019-07-12 00:57:05
Local clock offset: 2.121 ms
Remote clock offset: -3.381 ms

# Below is generated by plot.py at 2019-07-12 01:29:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.40 Mbit/s
95th percentile per-packet one-way delay: 34.248 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 32.40 Mbit/s
95th percentile per-packet one-way delay: 34.248 ms
Loss rate: 0.04%
```

## Run 5: Report of Indigo — Data Link

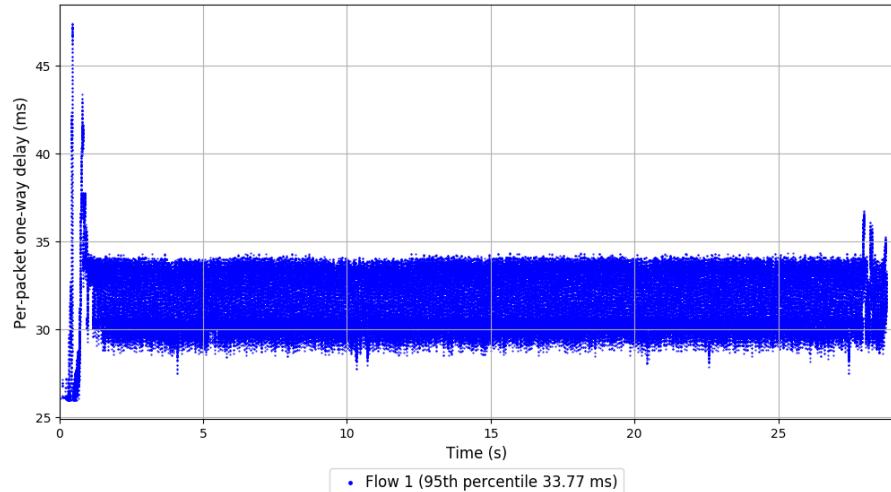
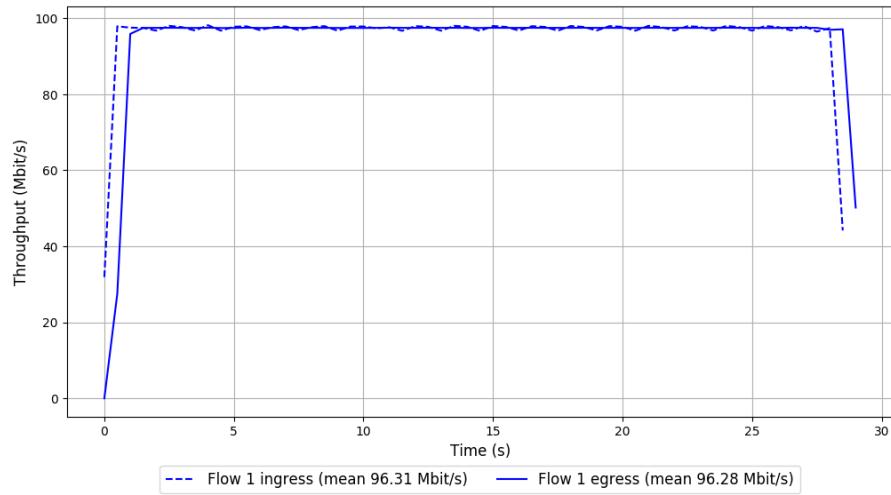


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-07-11 22:41:35
End at: 2019-07-11 22:42:05
Local clock offset: 5.653 ms
Remote clock offset: -2.766 ms

# Below is generated by plot.py at 2019-07-12 01:30:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 33.769 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 33.769 ms
Loss rate: 0.00%
```

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

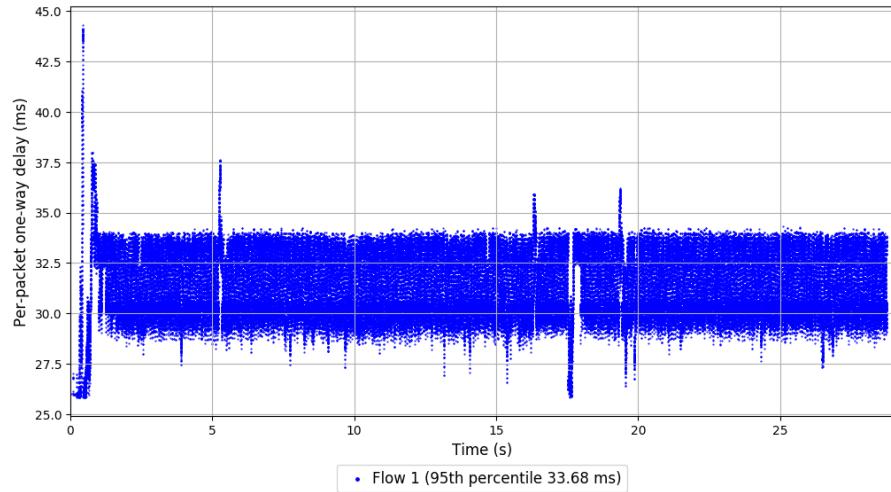
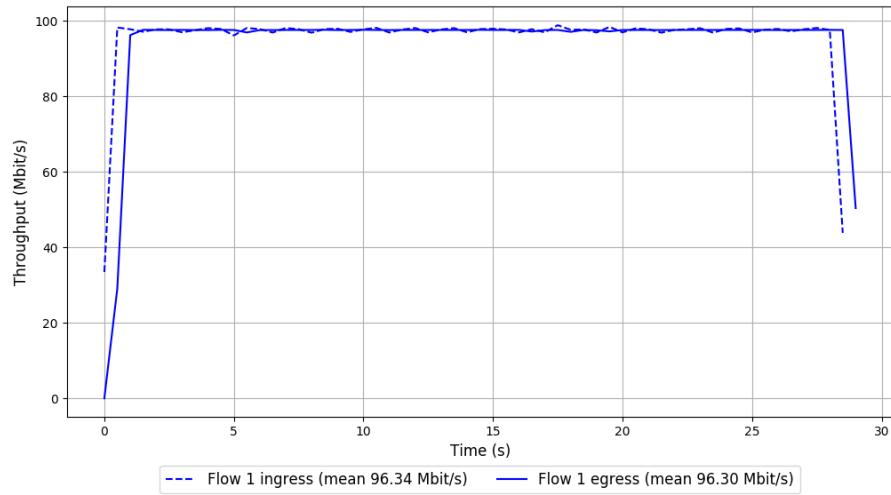


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-07-11 23:12:12
End at: 2019-07-11 23:12:42
Local clock offset: 5.734 ms
Remote clock offset: -2.681 ms

# Below is generated by plot.py at 2019-07-12 01:30:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 33.677 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 33.677 ms
Loss rate: 0.03%
```

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

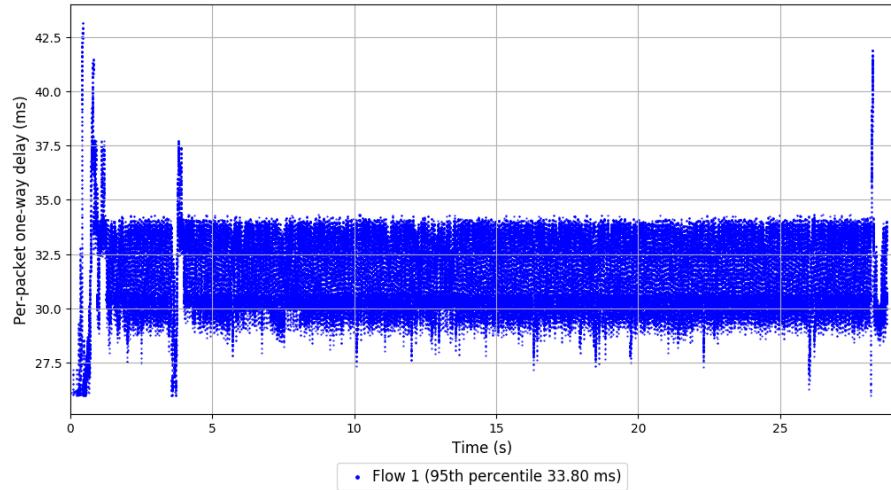
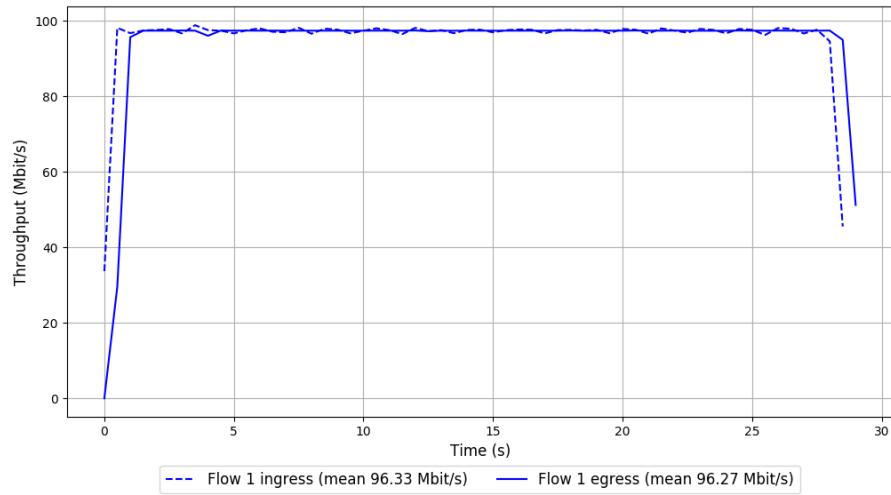


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-07-11 23:44:14
End at: 2019-07-11 23:44:44
Local clock offset: 5.775 ms
Remote clock offset: -2.389 ms

# Below is generated by plot.py at 2019-07-12 01:30:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 33.796 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 33.796 ms
Loss rate: 0.04%
```

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

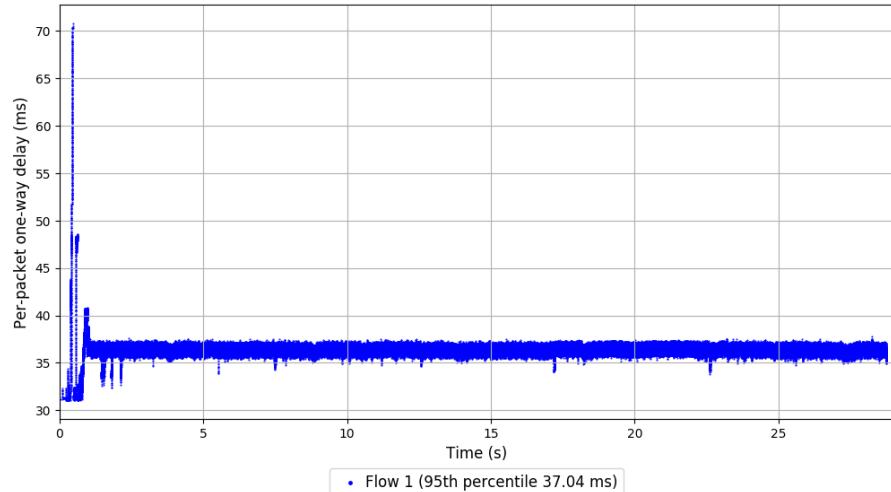
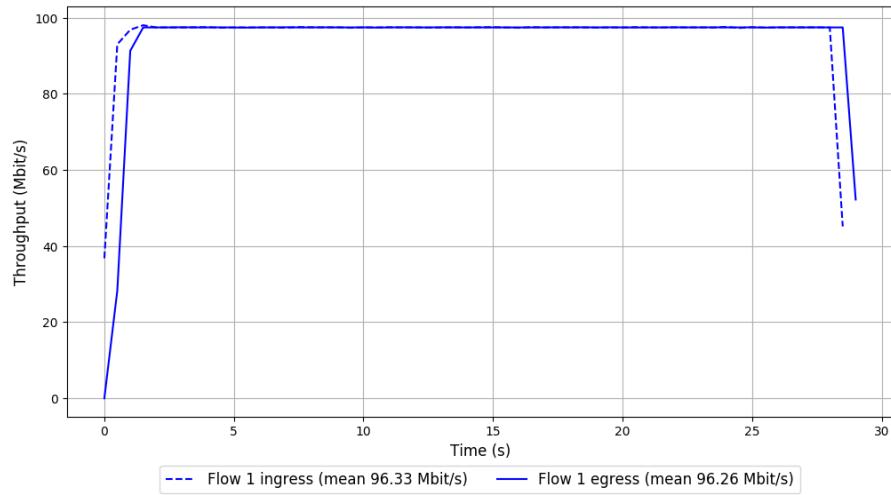


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 00:19:01
End at: 2019-07-12 00:19:31
Local clock offset: 2.269 ms
Remote clock offset: -2.829 ms

# Below is generated by plot.py at 2019-07-12 01:30:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 37.036 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 37.036 ms
Loss rate: 0.05%
```

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

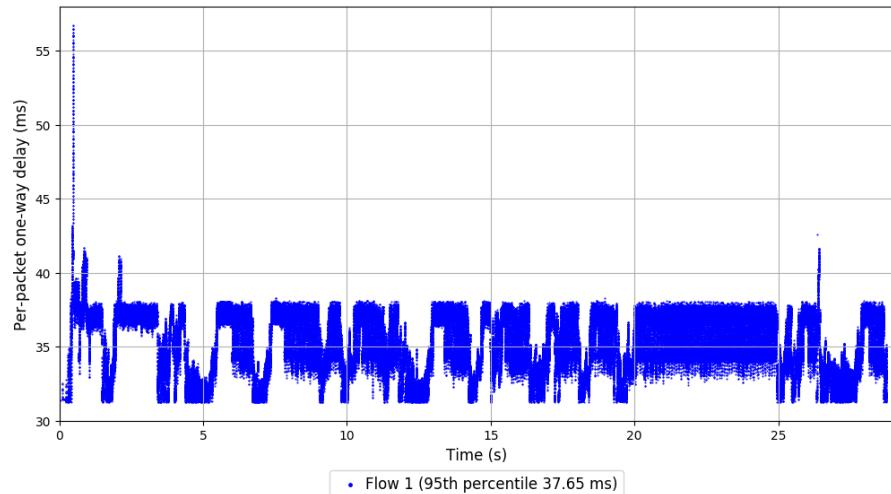
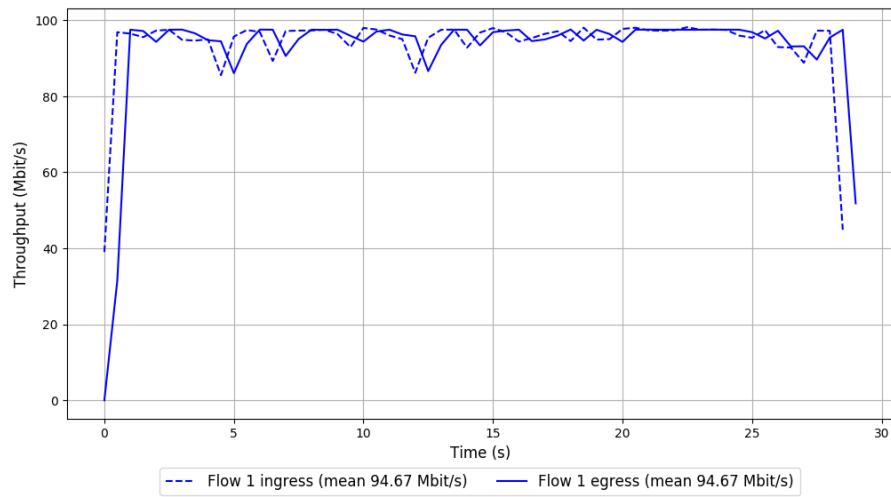


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 00:49:04
End at: 2019-07-12 00:49:34
Local clock offset: 2.284 ms
Remote clock offset: -3.124 ms

# Below is generated by plot.py at 2019-07-12 01:30:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.67 Mbit/s
95th percentile per-packet one-way delay: 37.654 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.67 Mbit/s
95th percentile per-packet one-way delay: 37.654 ms
Loss rate: 0.00%
```

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

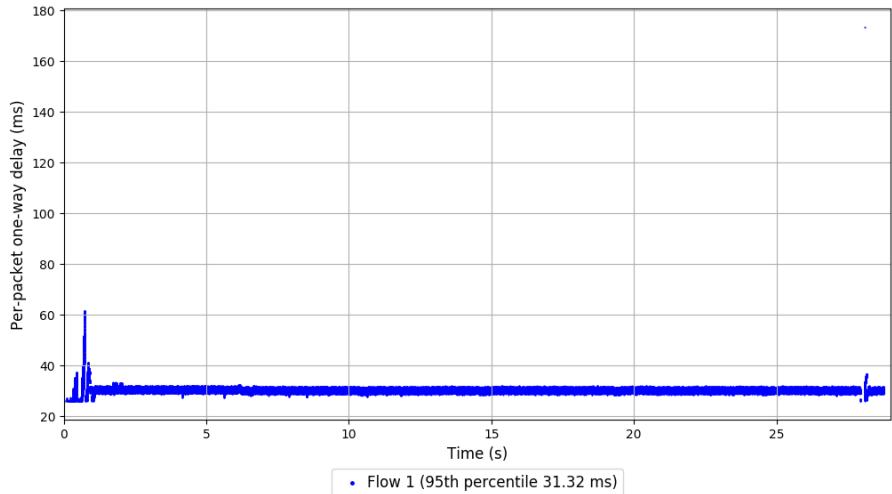
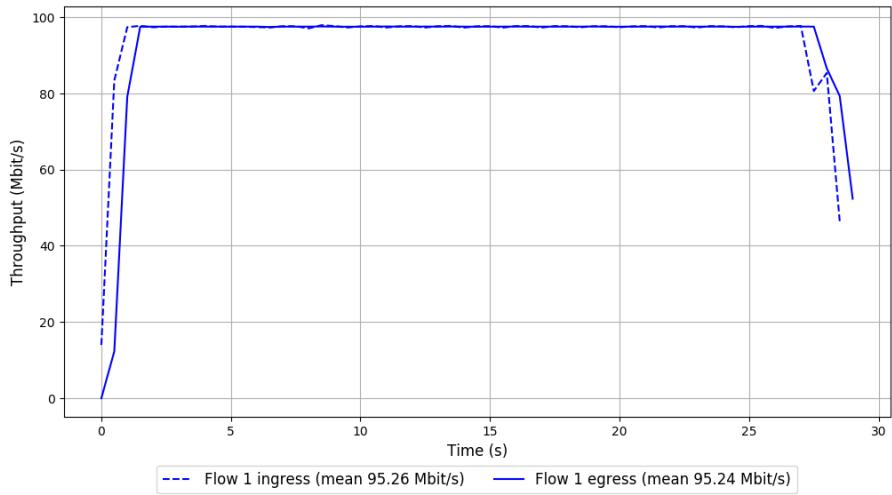


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-07-11 22:51:57
End at: 2019-07-11 22:52:27
Local clock offset: 5.986 ms
Remote clock offset: -2.695 ms

# Below is generated by plot.py at 2019-07-12 01:30:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.24 Mbit/s
95th percentile per-packet one-way delay: 31.325 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.24 Mbit/s
95th percentile per-packet one-way delay: 31.325 ms
Loss rate: 0.00%
```

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

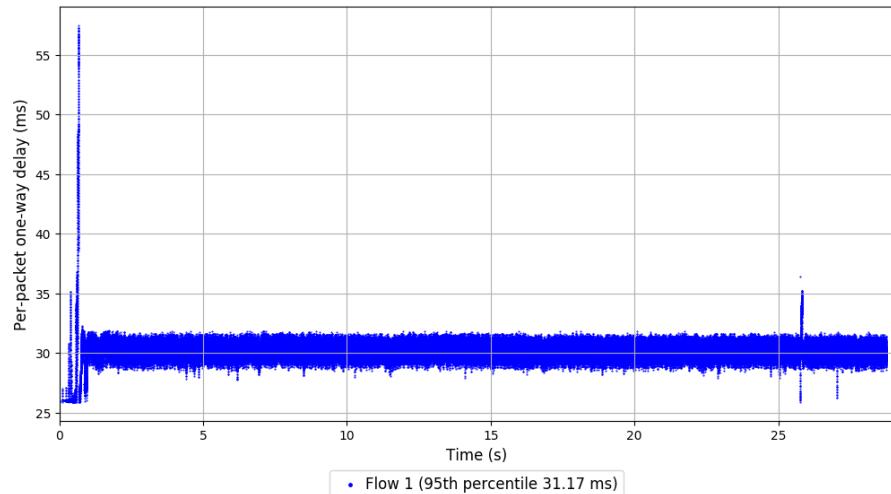
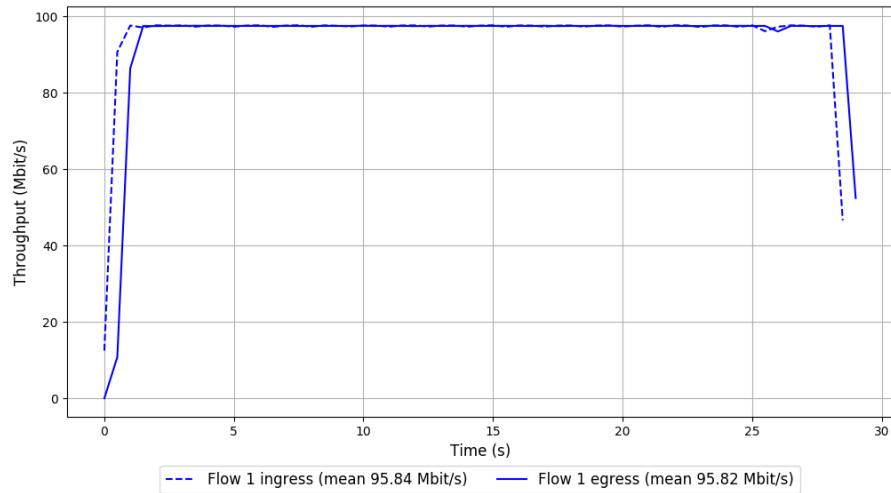


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-07-11 23:23:12
End at: 2019-07-11 23:23:42
Local clock offset: 5.675 ms
Remote clock offset: -2.612 ms

# Below is generated by plot.py at 2019-07-12 01:30:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 31.172 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 31.172 ms
Loss rate: 0.00%
```

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

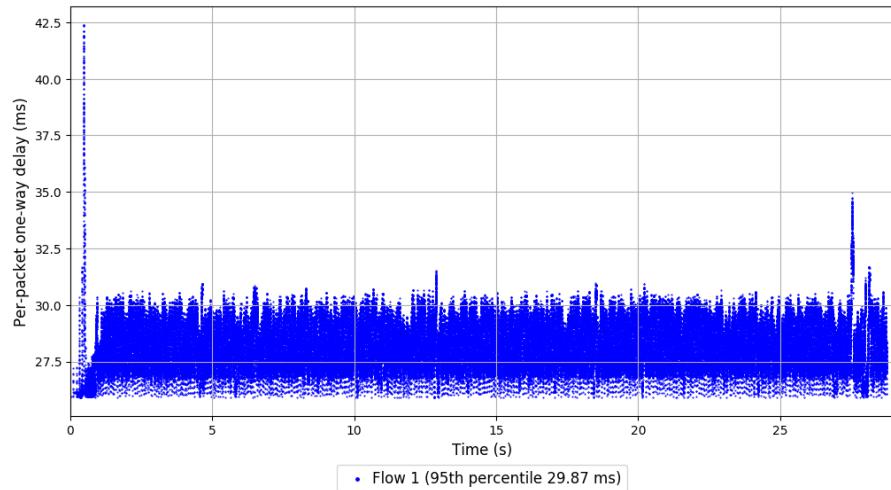
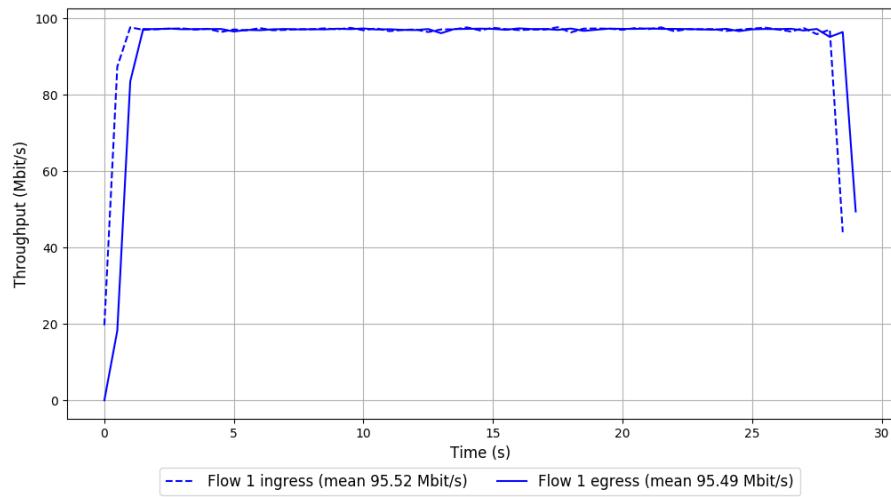


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-07-11 23:54:36
End at: 2019-07-11 23:55:06
Local clock offset: 5.828 ms
Remote clock offset: -2.271 ms

# Below is generated by plot.py at 2019-07-12 01:30:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.49 Mbit/s
95th percentile per-packet one-way delay: 29.871 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 95.49 Mbit/s
95th percentile per-packet one-way delay: 29.871 ms
Loss rate: 0.03%
```

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

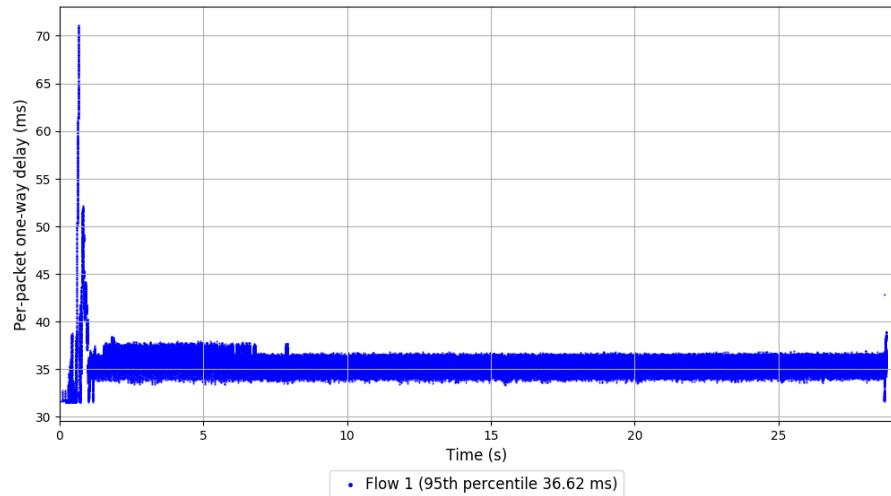
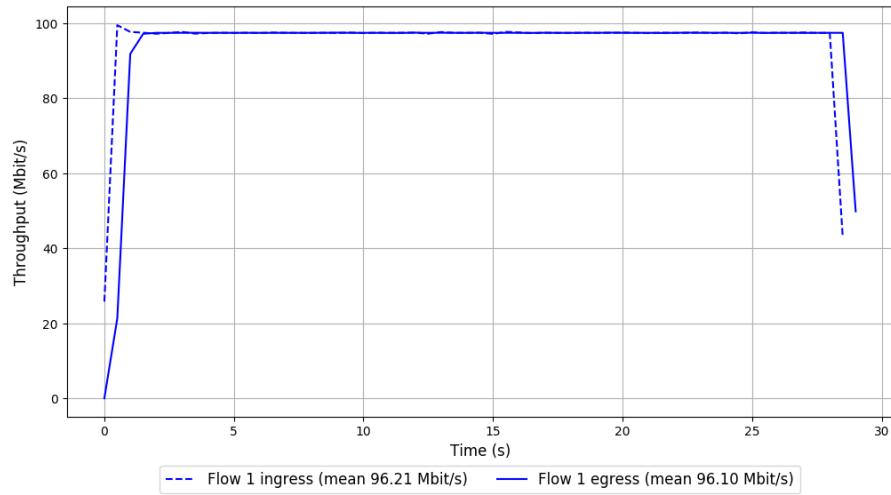


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 00:29:02
End at: 2019-07-12 00:29:32
Local clock offset: 1.546 ms
Remote clock offset: -2.927 ms

# Below is generated by plot.py at 2019-07-12 01:31:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 36.624 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 36.624 ms
Loss rate: 0.10%
```

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

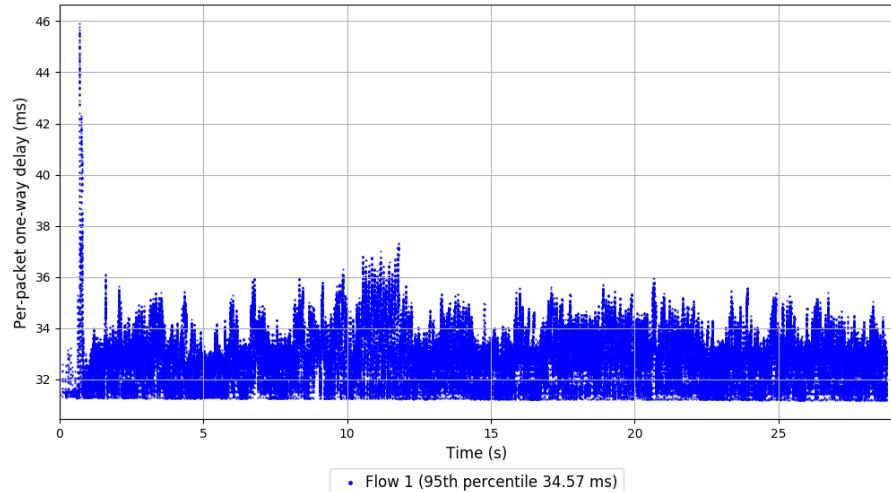
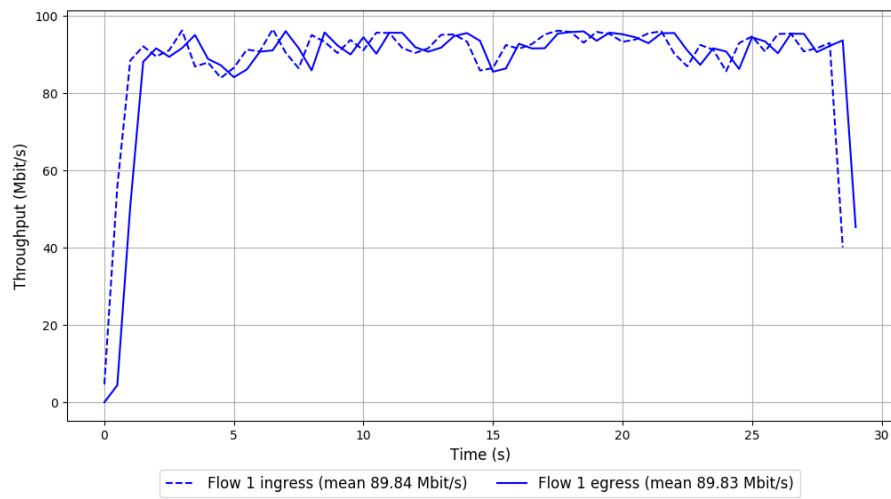


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 01:00:48
End at: 2019-07-12 01:01:18
Local clock offset: 1.621 ms
Remote clock offset: -3.488 ms

# Below is generated by plot.py at 2019-07-12 01:31:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.83 Mbit/s
95th percentile per-packet one-way delay: 34.571 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 89.83 Mbit/s
95th percentile per-packet one-way delay: 34.571 ms
Loss rate: 0.01%
```

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

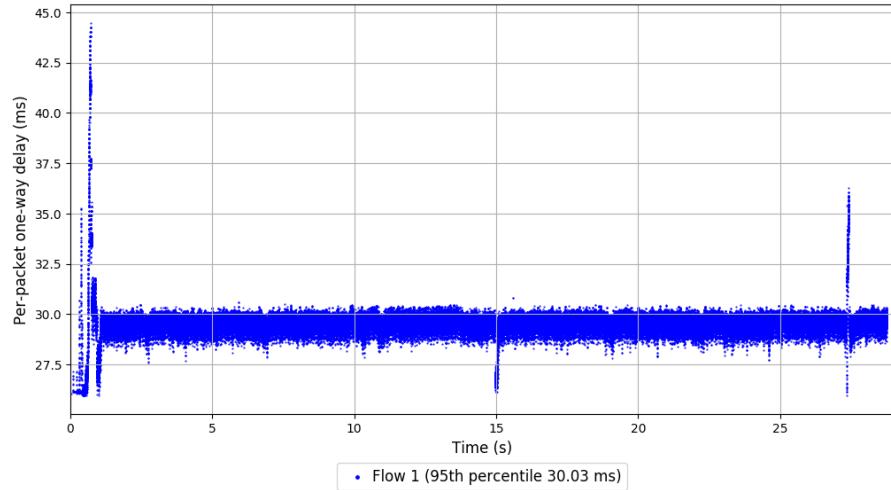
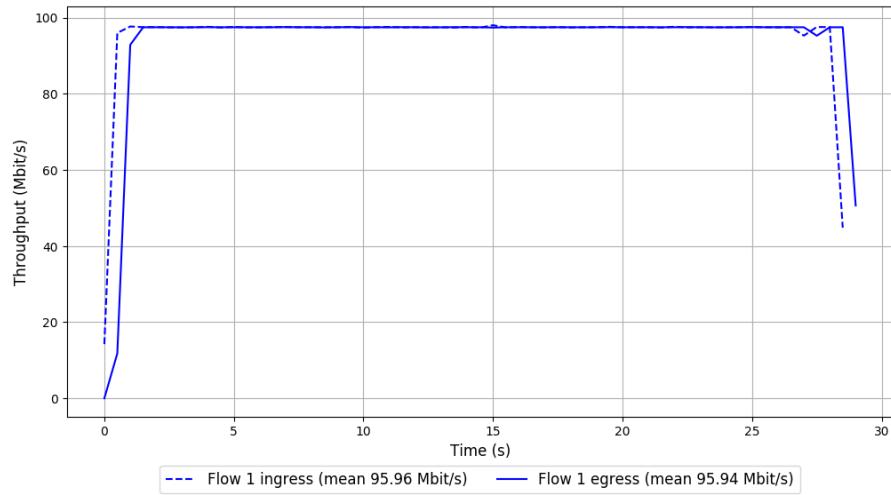


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-07-11 22:40:21
End at: 2019-07-11 22:40:51
Local clock offset: 5.59 ms
Remote clock offset: -2.8 ms

# Below is generated by plot.py at 2019-07-12 01:31:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 30.032 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 30.032 ms
Loss rate: 0.01%
```

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

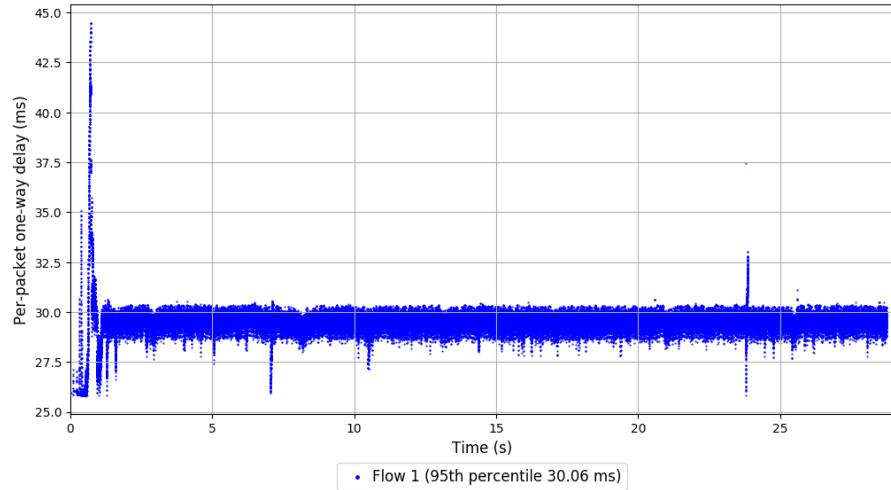
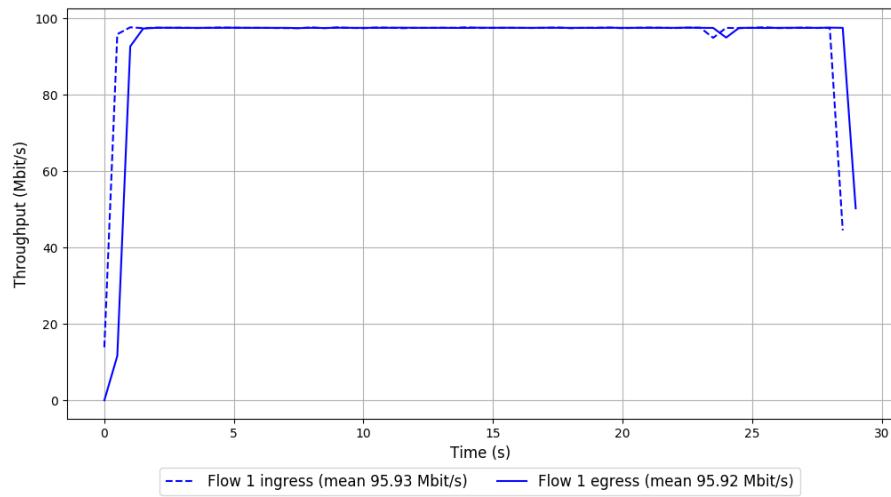


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-07-11 23:10:51
End at: 2019-07-11 23:11:21
Local clock offset: 5.744 ms
Remote clock offset: -2.672 ms

# Below is generated by plot.py at 2019-07-12 01:31:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 30.057 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 30.057 ms
Loss rate: 0.00%
```

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

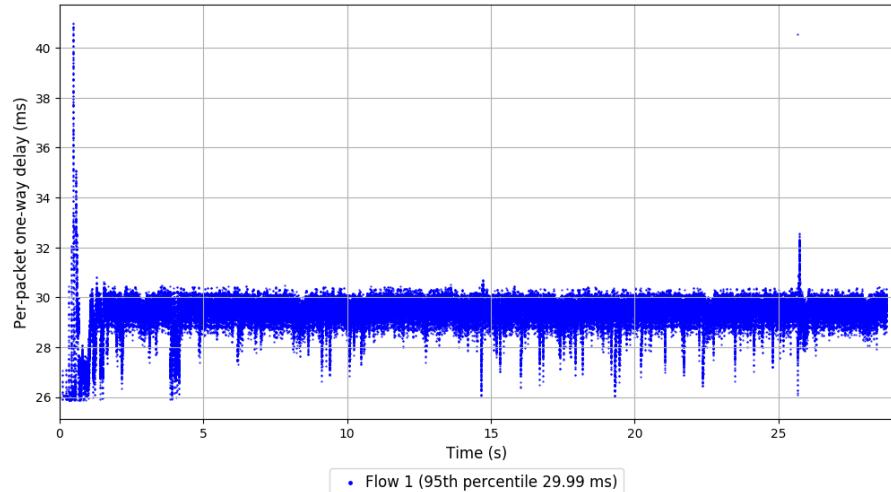
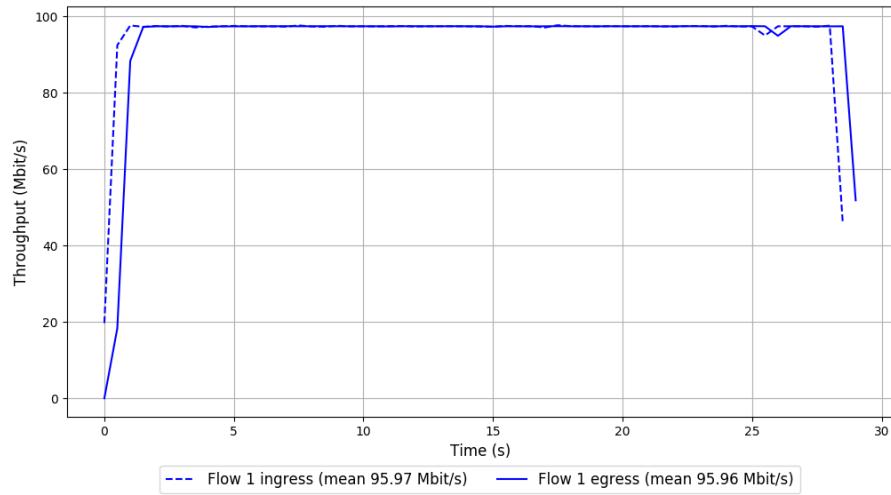


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-07-11 23:42:54
End at: 2019-07-11 23:43:24
Local clock offset: 5.77 ms
Remote clock offset: -2.429 ms

# Below is generated by plot.py at 2019-07-12 01:31:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 29.990 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 29.990 ms
Loss rate: 0.00%
```

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

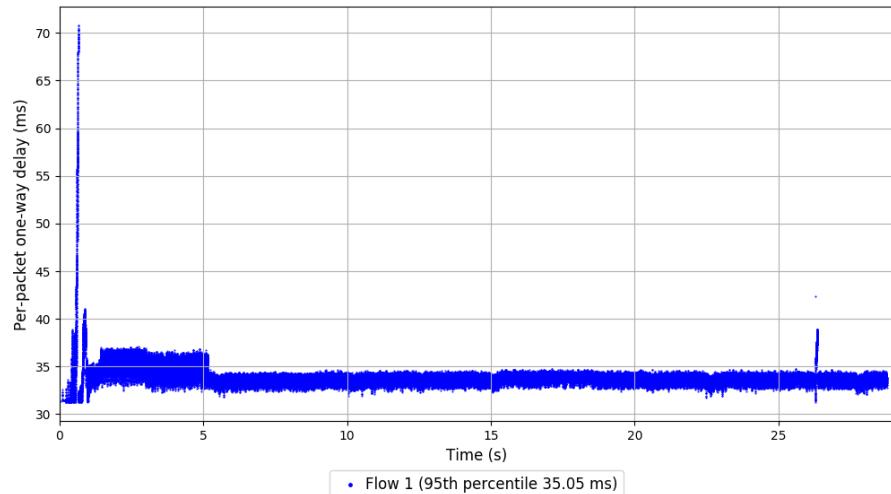
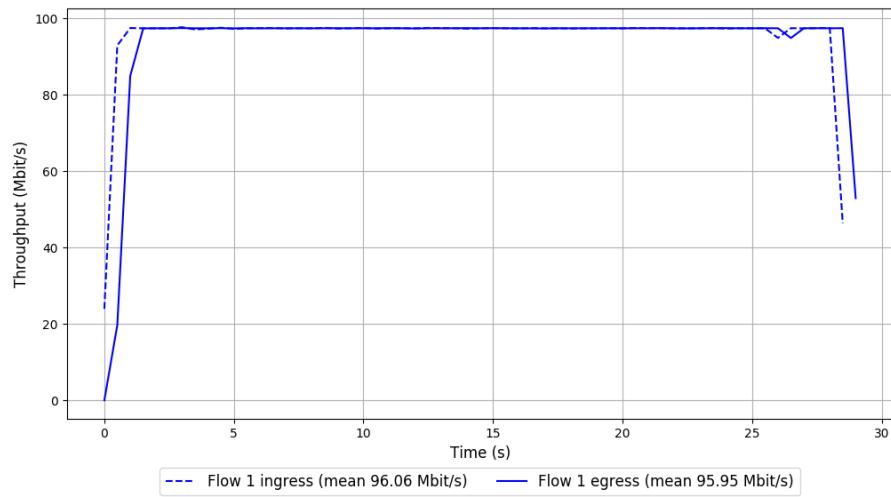


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 00:17:44
End at: 2019-07-12 00:18:14
Local clock offset: 2.378 ms
Remote clock offset: -2.791 ms

# Below is generated by plot.py at 2019-07-12 01:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 35.046 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 35.046 ms
Loss rate: 0.10%
```

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

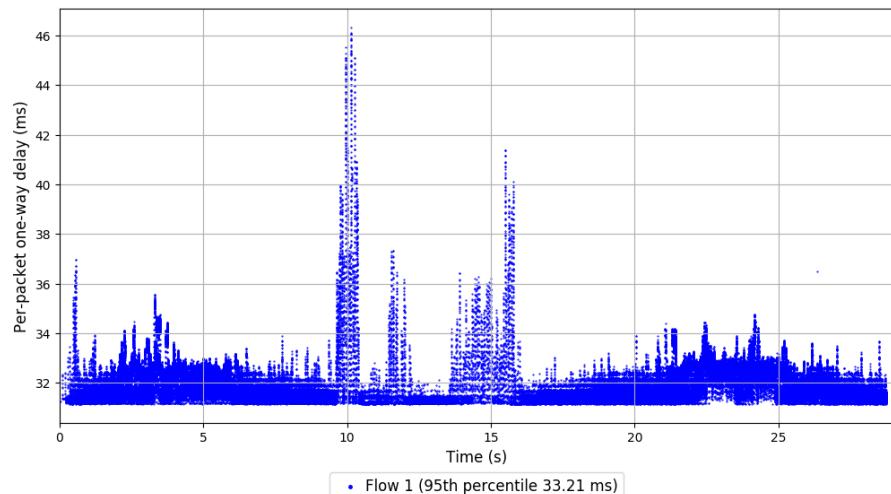
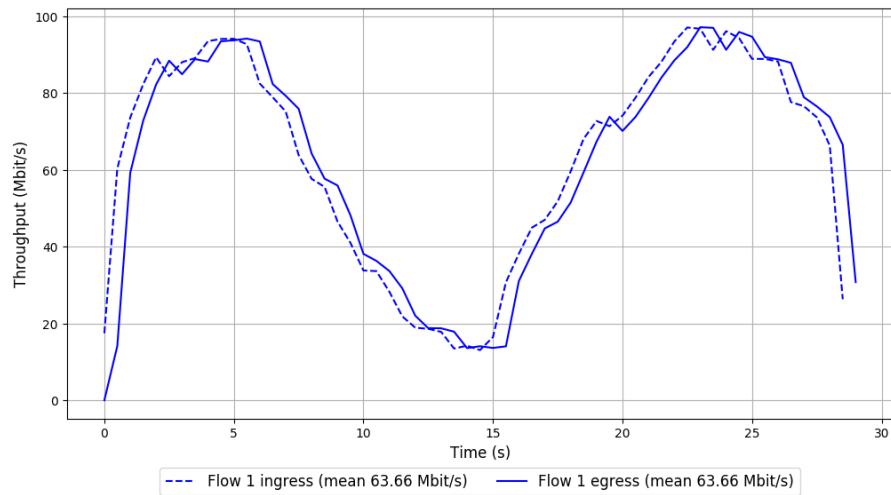


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 00:47:47
End at: 2019-07-12 00:48:17
Local clock offset: 2.299 ms
Remote clock offset: -3.108 ms

# Below is generated by plot.py at 2019-07-12 01:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.66 Mbit/s
95th percentile per-packet one-way delay: 33.210 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.66 Mbit/s
95th percentile per-packet one-way delay: 33.210 ms
Loss rate: 0.00%
```

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

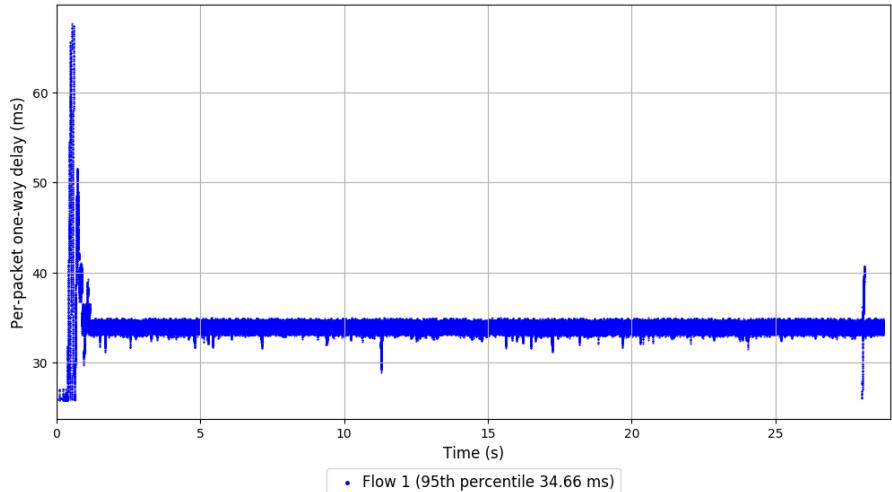
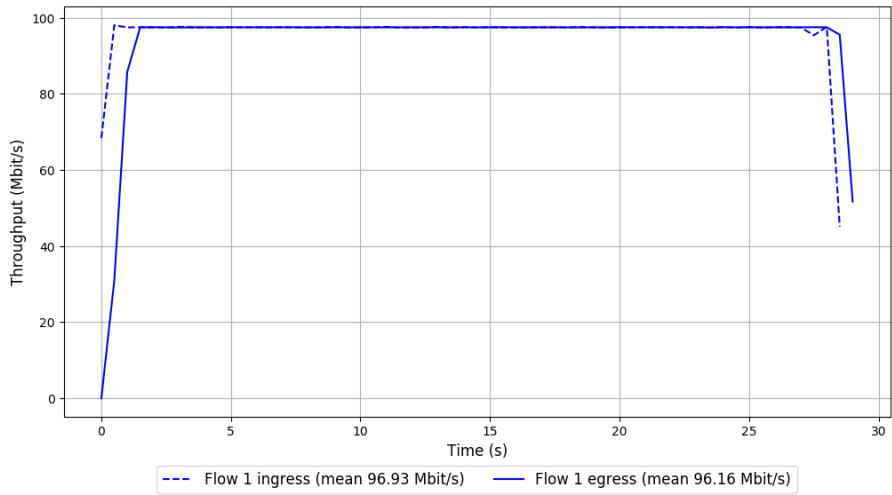


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-07-11 23:04:30
End at: 2019-07-11 23:05:00
Local clock offset: 5.857 ms
Remote clock offset: -2.693 ms

# Below is generated by plot.py at 2019-07-12 01:32:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 34.662 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 34.662 ms
Loss rate: 0.77%
```

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

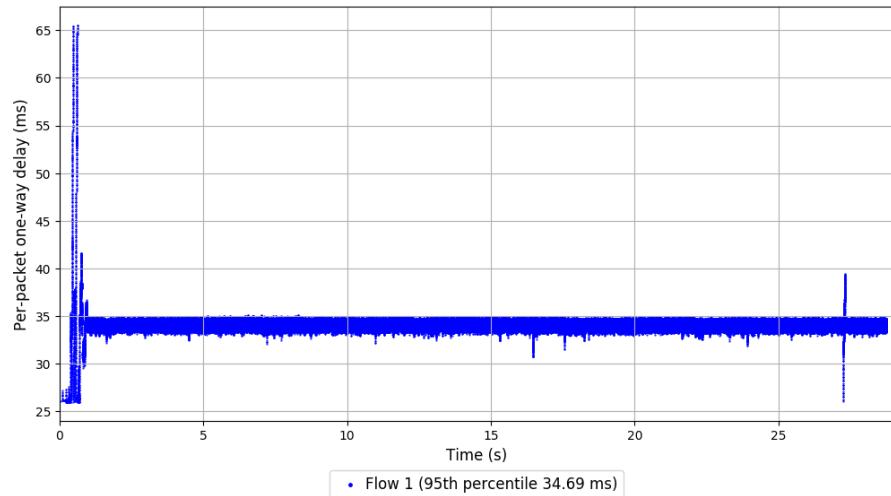
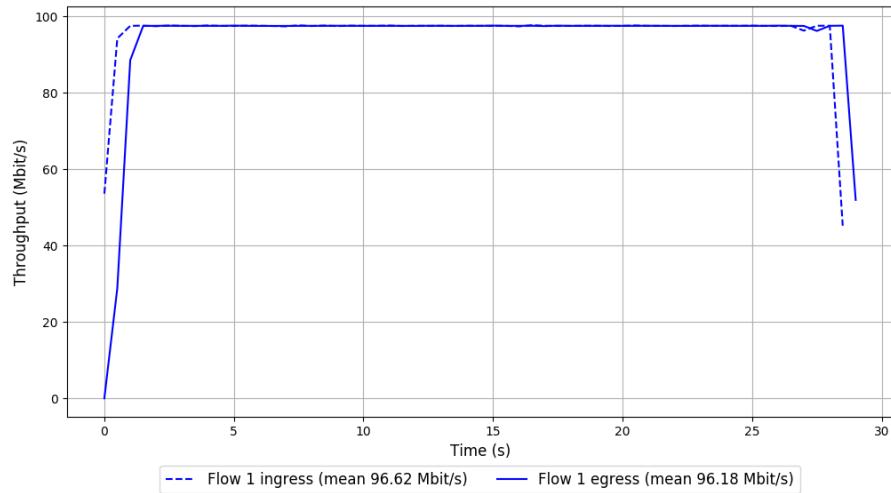


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-07-11 23:36:41
End at: 2019-07-11 23:37:11
Local clock offset: 5.701 ms
Remote clock offset: -2.391 ms

# Below is generated by plot.py at 2019-07-12 01:32:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 34.690 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 34.690 ms
Loss rate: 0.43%
```

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

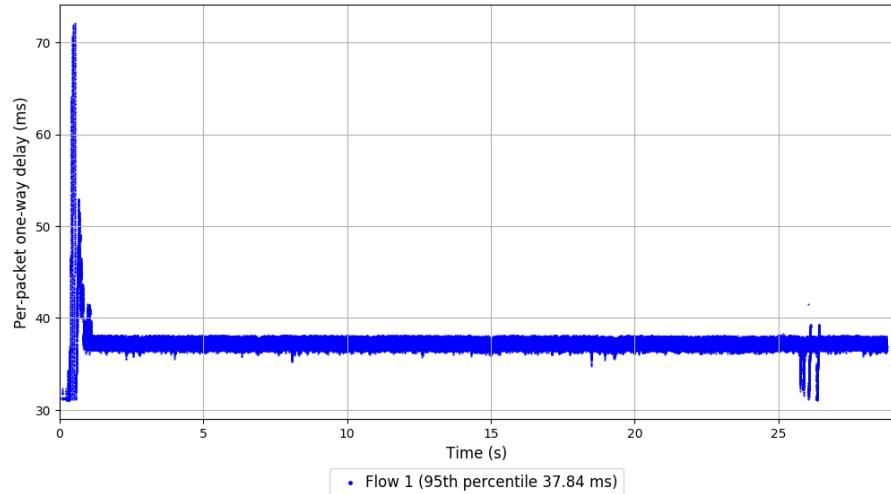
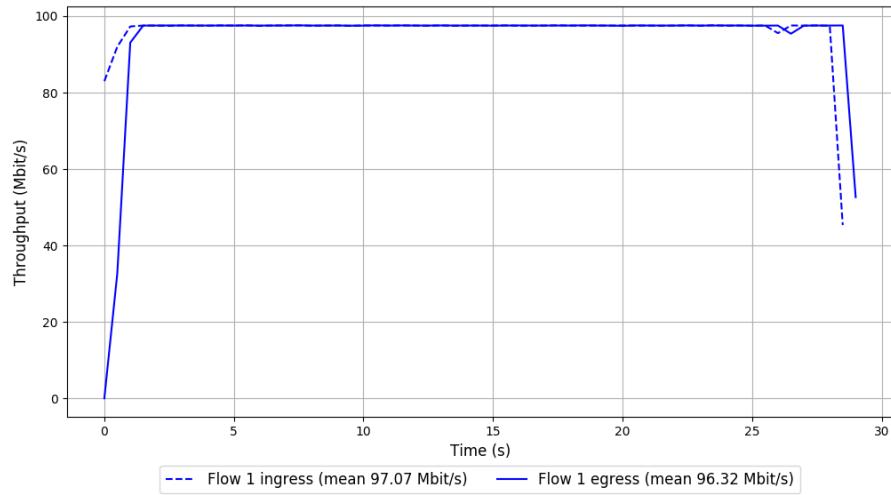


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 00:11:31
End at: 2019-07-12 00:12:01
Local clock offset: 3.094 ms
Remote clock offset: -2.606 ms

# Below is generated by plot.py at 2019-07-12 01:32:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 37.839 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 37.839 ms
Loss rate: 0.75%
```

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

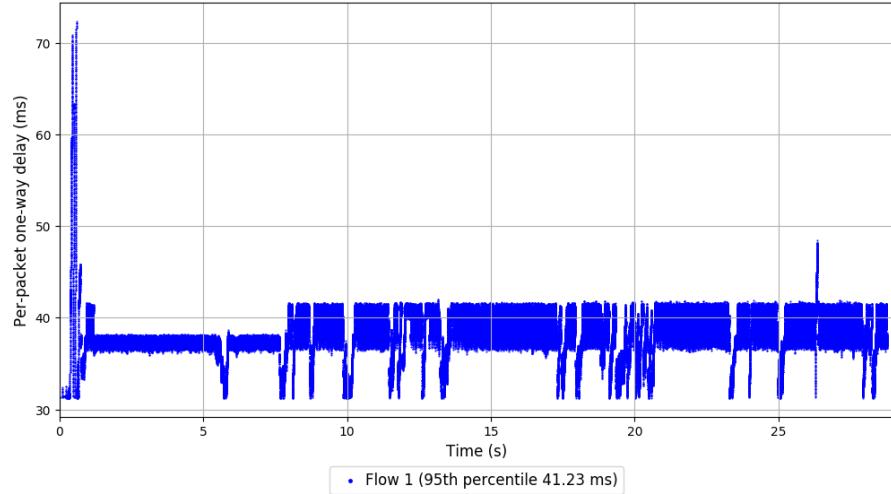
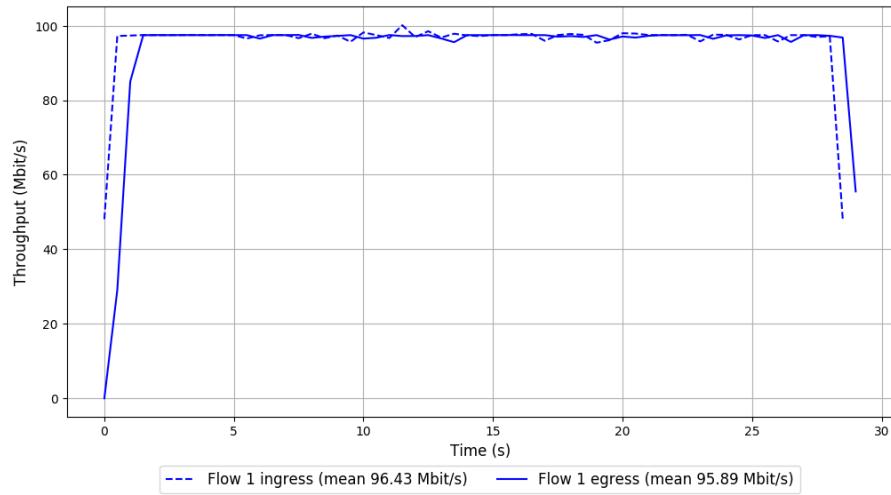


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 00:41:49
End at: 2019-07-12 00:42:19
Local clock offset: 2.316 ms
Remote clock offset: -3.047 ms

# Below is generated by plot.py at 2019-07-12 01:32:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 41.225 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 95.89 Mbit/s
95th percentile per-packet one-way delay: 41.225 ms
Loss rate: 0.53%
```

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

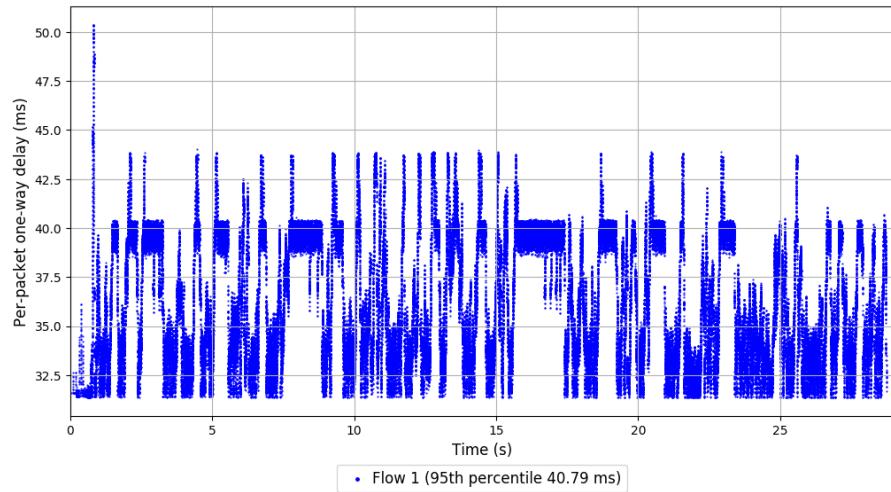
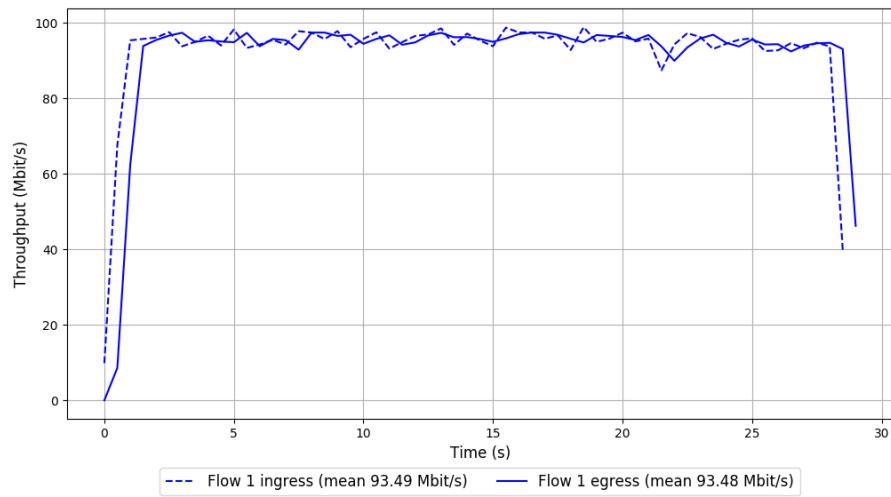


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 01:16:35
End at: 2019-07-12 01:17:05
Local clock offset: -0.604 ms
Remote clock offset: -4.085 ms

# Below is generated by plot.py at 2019-07-12 01:33:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.48 Mbit/s
95th percentile per-packet one-way delay: 40.790 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.48 Mbit/s
95th percentile per-packet one-way delay: 40.790 ms
Loss rate: 0.00%
```

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

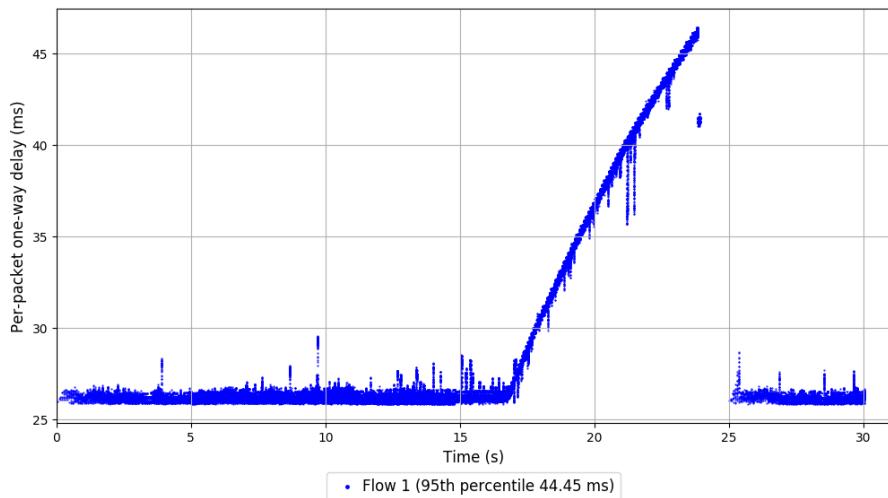
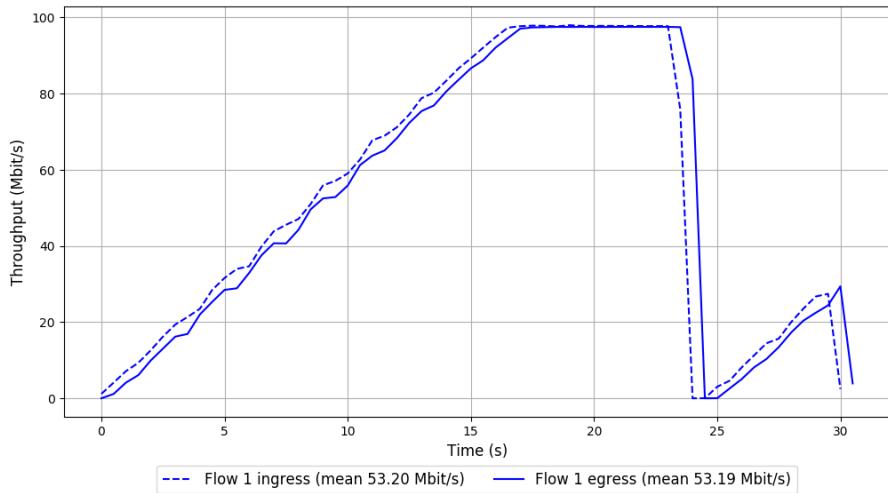


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-07-11 23:00:44
End at: 2019-07-11 23:01:14
Local clock offset: 5.999 ms
Remote clock offset: -2.579 ms

# Below is generated by plot.py at 2019-07-12 01:33:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.19 Mbit/s
95th percentile per-packet one-way delay: 44.445 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 53.19 Mbit/s
95th percentile per-packet one-way delay: 44.445 ms
Loss rate: 0.03%
```

## Run 1: Report of LEDBAT — Data Link

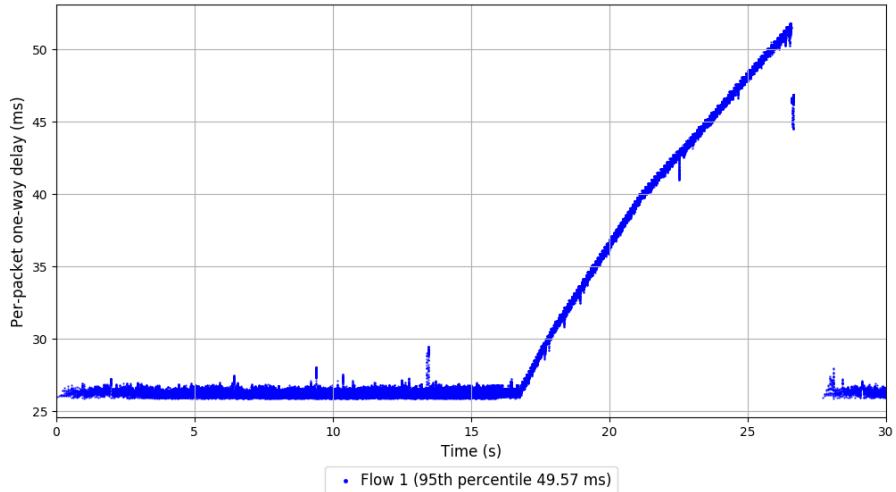
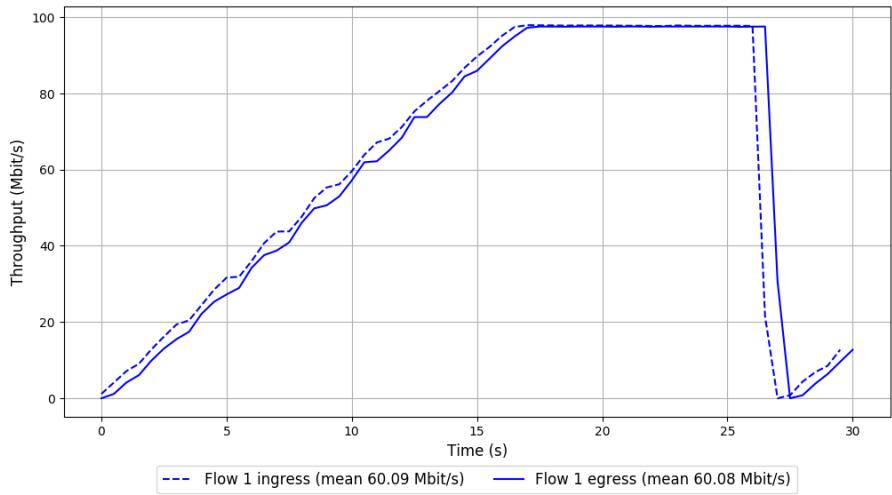


Run 2: Statistics of LEDBAT

```
Start at: 2019-07-11 23:32:55
End at: 2019-07-11 23:33:25
Local clock offset: 5.713 ms
Remote clock offset: -2.515 ms

# Below is generated by plot.py at 2019-07-12 01:33:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.08 Mbit/s
95th percentile per-packet one-way delay: 49.568 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 60.08 Mbit/s
95th percentile per-packet one-way delay: 49.568 ms
Loss rate: 0.03%
```

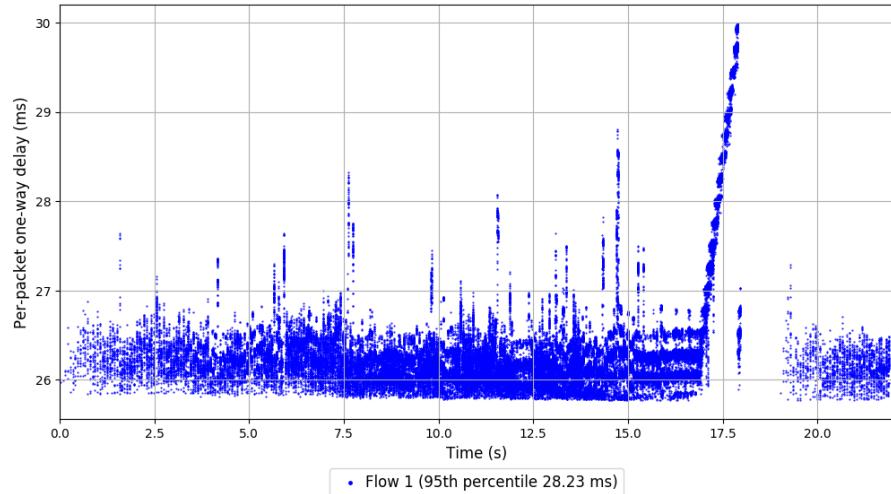
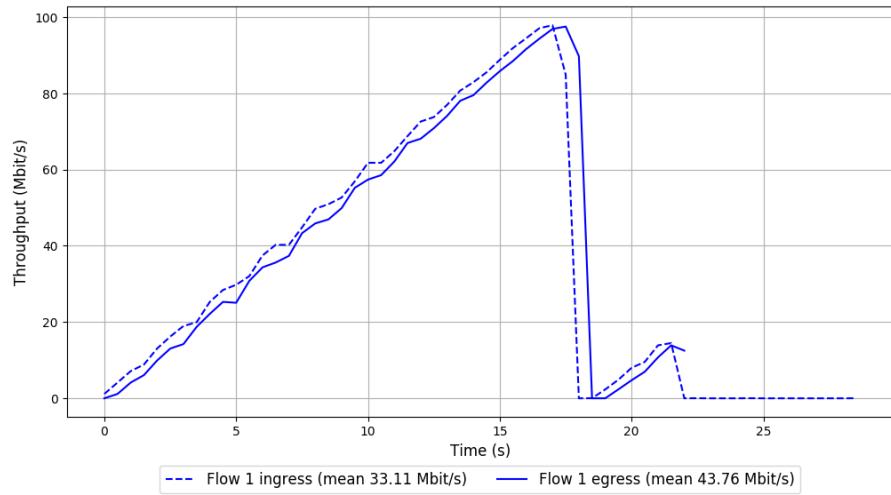
## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-07-12 00:03:19  
End at: 2019-07-12 00:03:49  
Local clock offset: 4.572 ms  
Remote clock offset: -2.362 ms

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

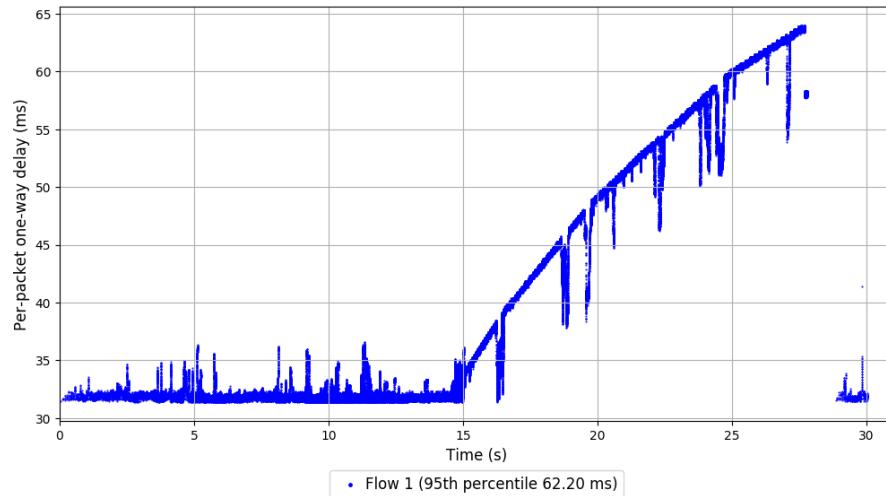
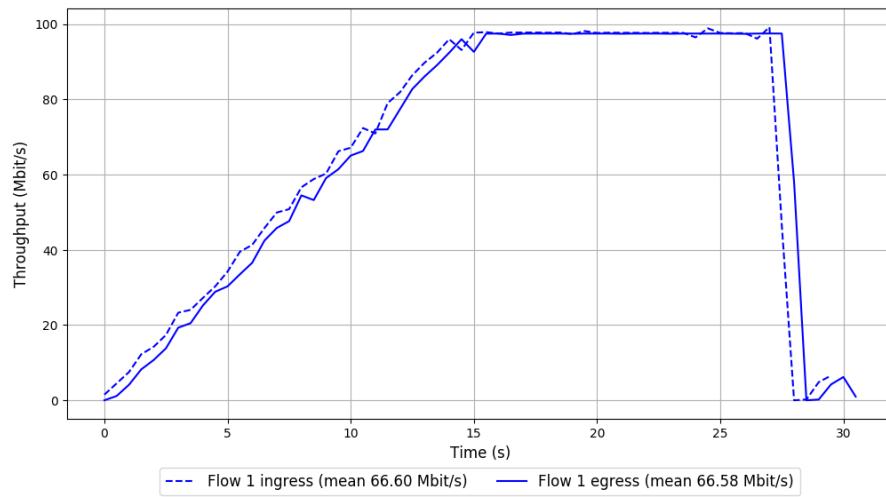


Run 4: Statistics of LEDBAT

```
Start at: 2019-07-12 00:37:50
End at: 2019-07-12 00:38:20
Local clock offset: 2.225 ms
Remote clock offset: -2.973 ms

# Below is generated by plot.py at 2019-07-12 01:33:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.58 Mbit/s
95th percentile per-packet one-way delay: 62.196 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 66.58 Mbit/s
95th percentile per-packet one-way delay: 62.196 ms
Loss rate: 0.03%
```

Run 4: Report of LEDBAT — Data Link

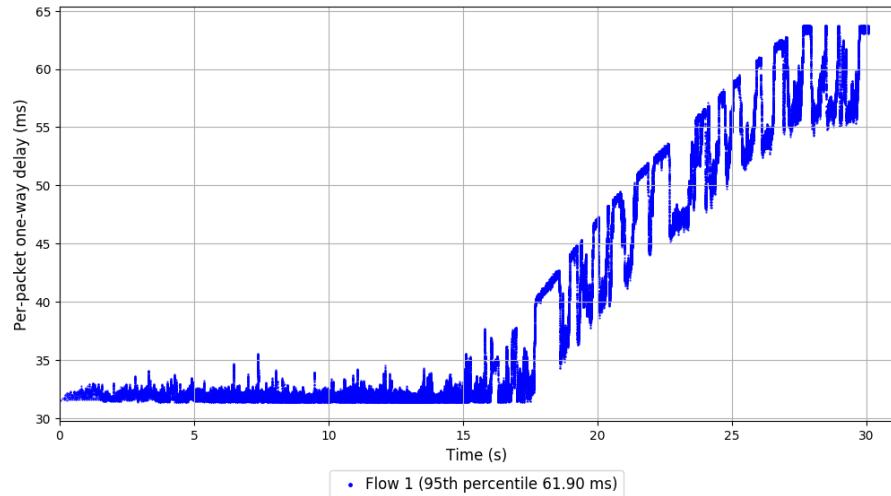
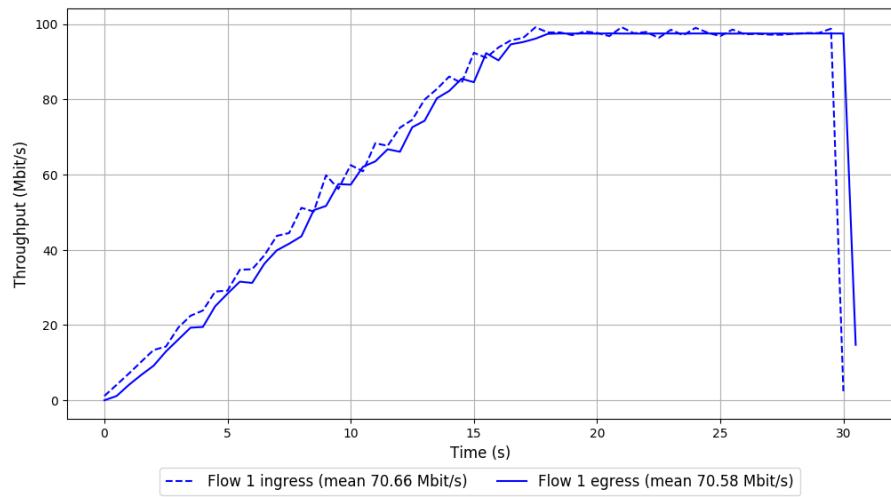


Run 5: Statistics of LEDBAT

```
Start at: 2019-07-12 01:11:20
End at: 2019-07-12 01:11:50
Local clock offset: -0.084 ms
Remote clock offset: -3.839 ms

# Below is generated by plot.py at 2019-07-12 01:33:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.58 Mbit/s
95th percentile per-packet one-way delay: 61.898 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.58 Mbit/s
95th percentile per-packet one-way delay: 61.898 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

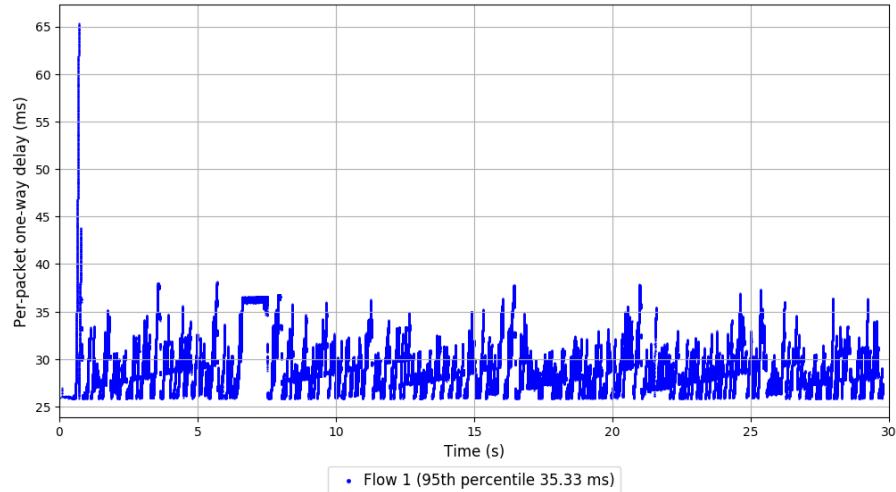
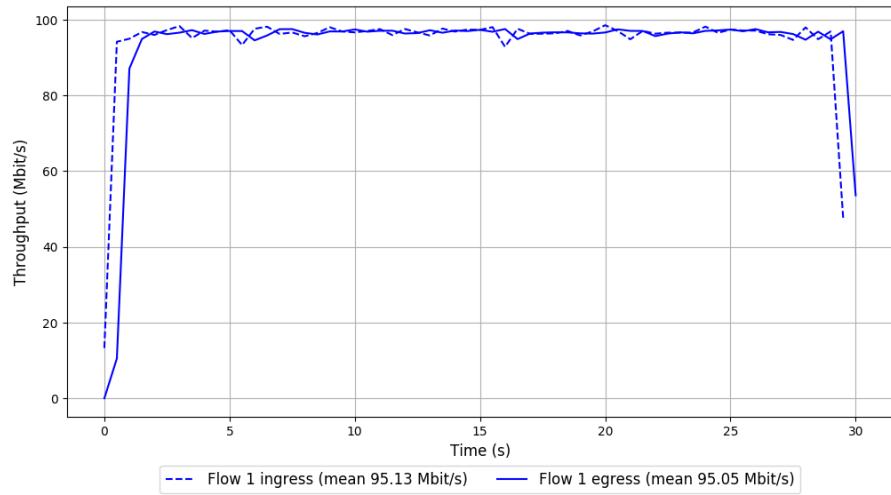


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-07-11 23:09:27
End at: 2019-07-11 23:09:57
Local clock offset: 5.744 ms
Remote clock offset: -2.717 ms

# Below is generated by plot.py at 2019-07-12 01:33:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.05 Mbit/s
95th percentile per-packet one-way delay: 35.328 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.05 Mbit/s
95th percentile per-packet one-way delay: 35.328 ms
Loss rate: 0.08%
```

Run 1: Report of Muses\_DecisionTree — Data Link

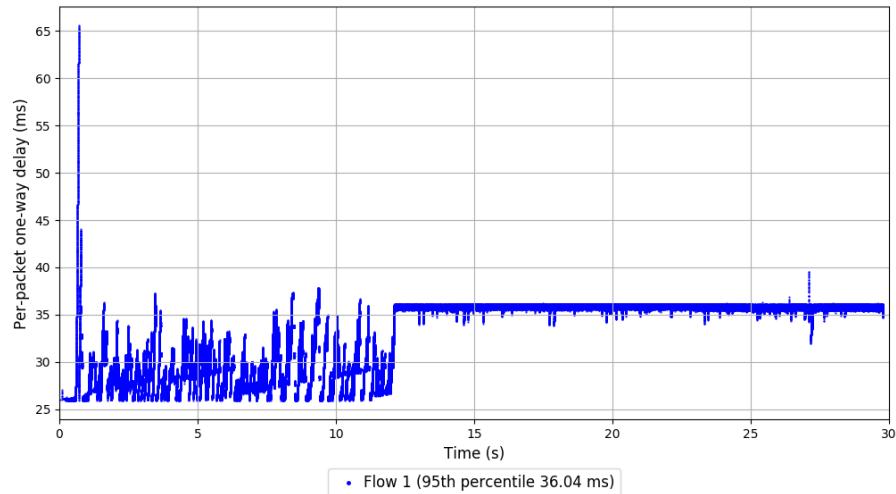
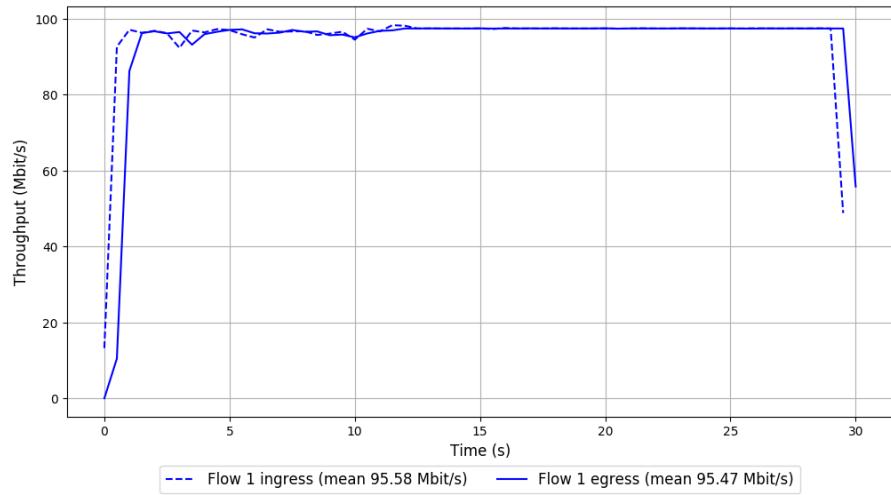


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-07-11 23:41:36
End at: 2019-07-11 23:42:06
Local clock offset: 5.742 ms
Remote clock offset: -2.448 ms

# Below is generated by plot.py at 2019-07-12 01:33:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 36.040 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 36.040 ms
Loss rate: 0.08%
```

Run 2: Report of Muses\_DecisionTree — Data Link

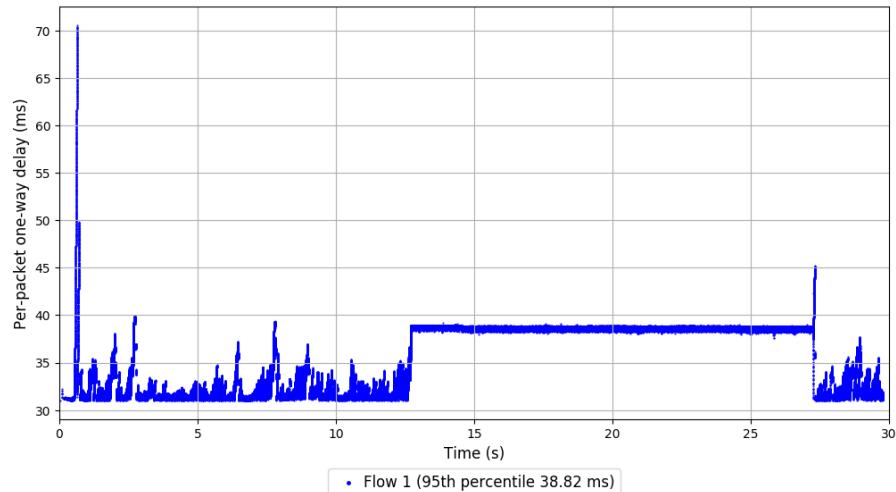
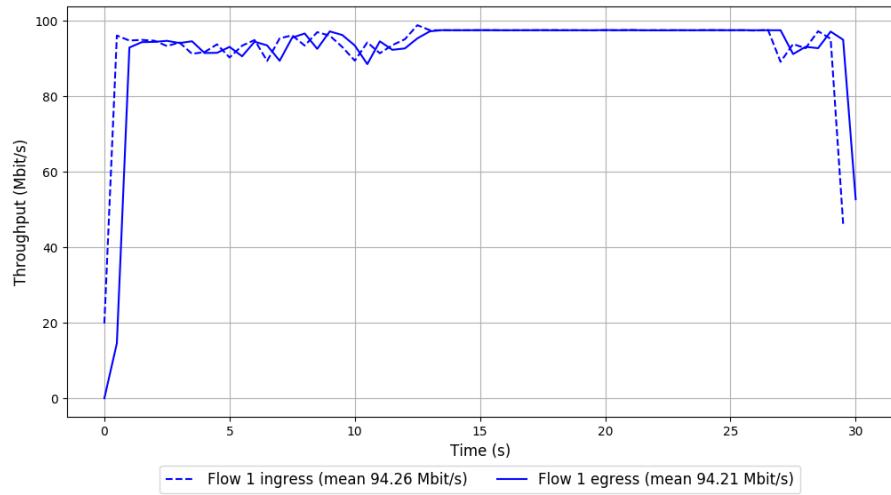


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 00:16:24
End at: 2019-07-12 00:16:54
Local clock offset: 2.516 ms
Remote clock offset: -2.771 ms

# Below is generated by plot.py at 2019-07-12 01:34:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.21 Mbit/s
95th percentile per-packet one-way delay: 38.824 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 94.21 Mbit/s
95th percentile per-packet one-way delay: 38.824 ms
Loss rate: 0.05%
```

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

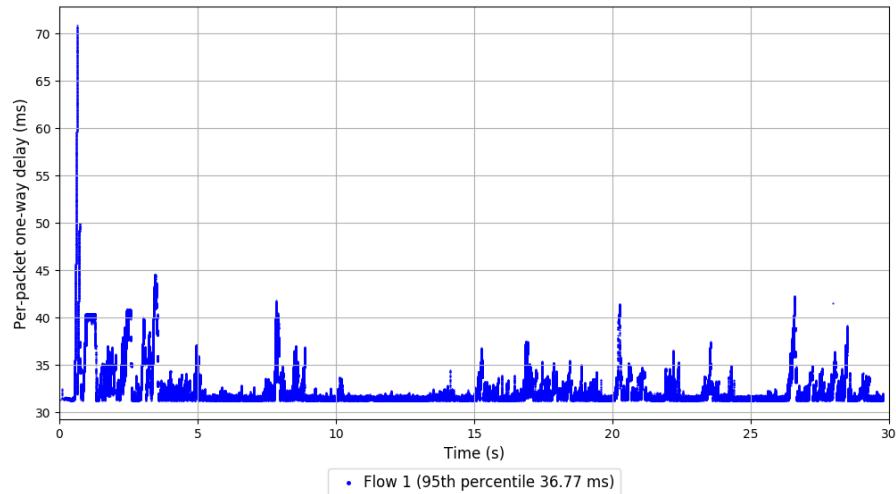
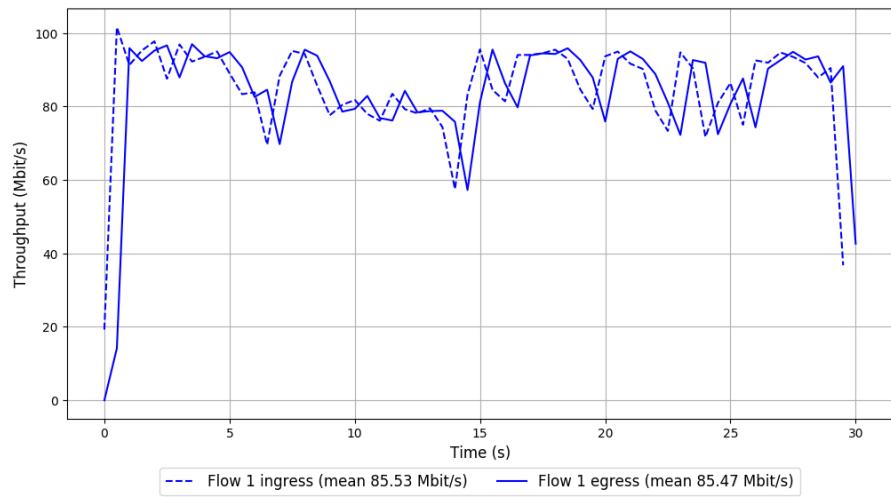


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 00:46:35
End at: 2019-07-12 00:47:05
Local clock offset: 2.313 ms
Remote clock offset: -3.118 ms

# Below is generated by plot.py at 2019-07-12 01:34:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.47 Mbit/s
95th percentile per-packet one-way delay: 36.769 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 85.47 Mbit/s
95th percentile per-packet one-way delay: 36.769 ms
Loss rate: 0.07%
```

Run 4: Report of Muses\_DecisionTree — Data Link

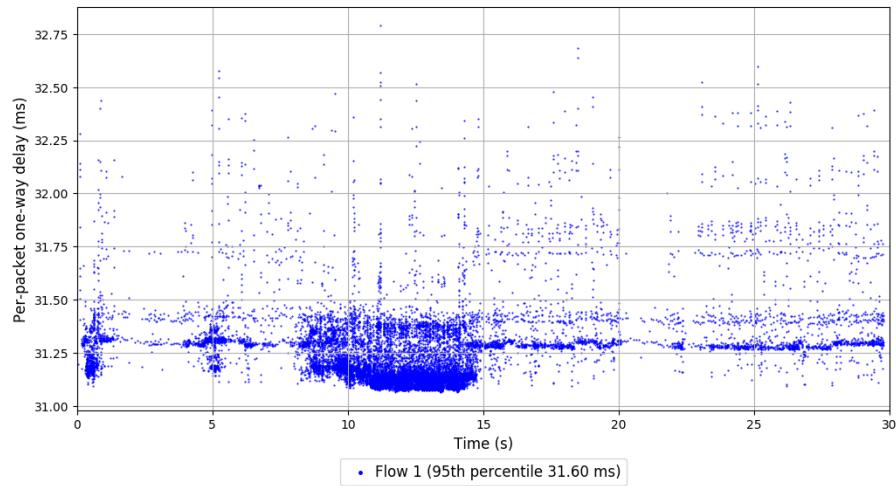
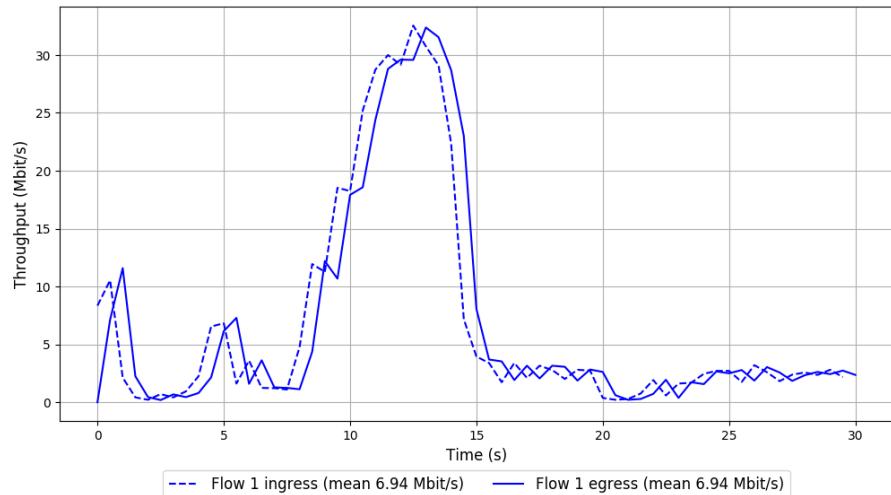


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 01:23:09
End at: 2019-07-12 01:23:39
Local clock offset: -1.113 ms
Remote clock offset: -4.378 ms

# Below is generated by plot.py at 2019-07-12 01:34:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 31.604 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 31.604 ms
Loss rate: 0.00%
```

Run 5: Report of Muses\_DecisionTree — Data Link

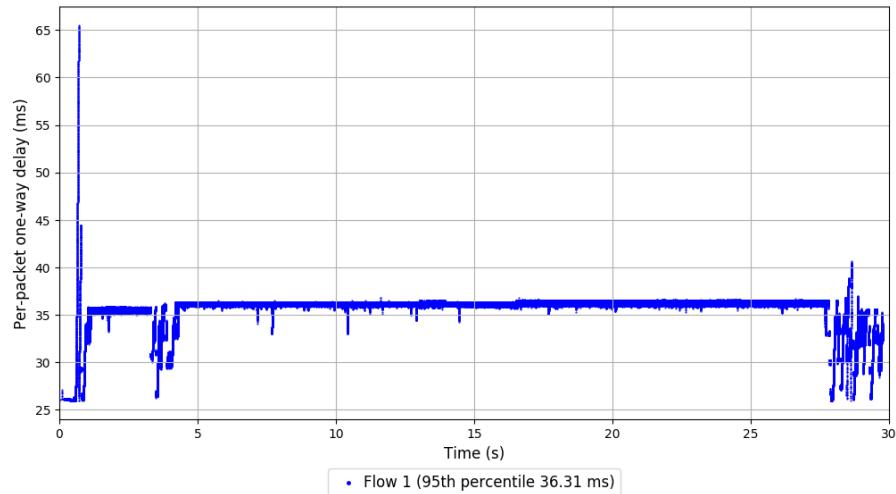
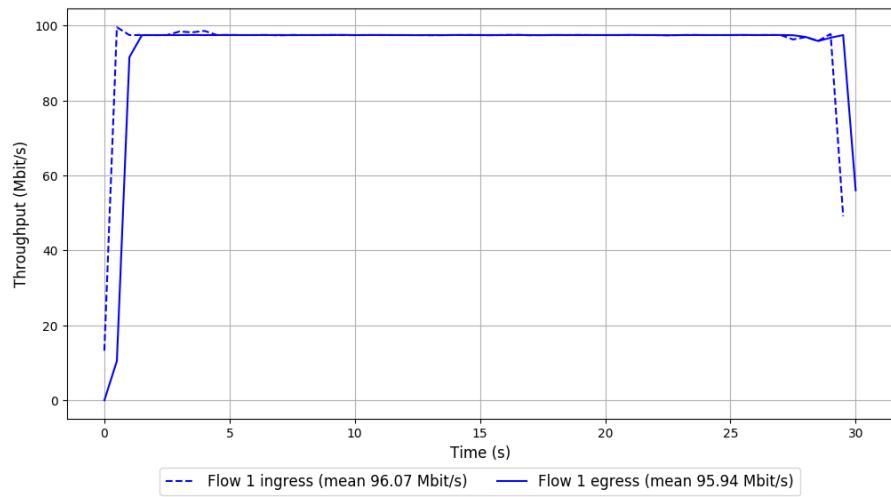


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-11 22:49:13
End at: 2019-07-11 22:49:44
Local clock offset: 5.924 ms
Remote clock offset: -2.71 ms

# Below is generated by plot.py at 2019-07-12 01:34:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 36.308 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 36.308 ms
Loss rate: 0.11%
```

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

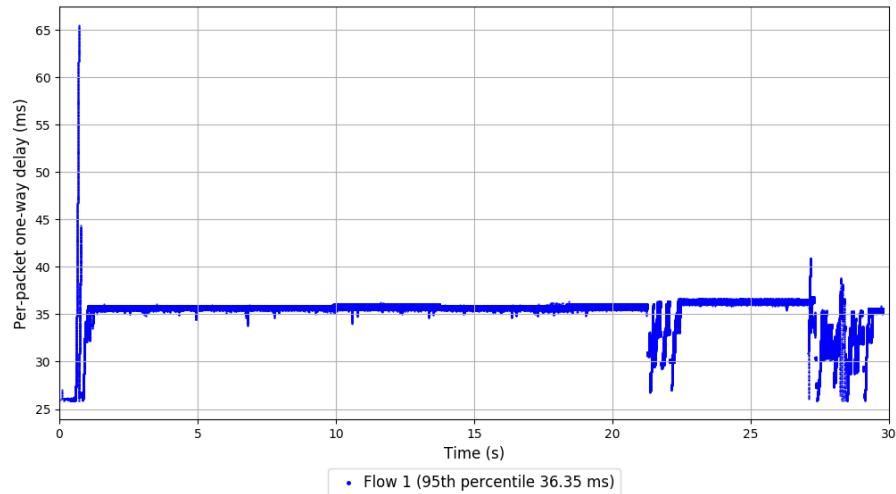
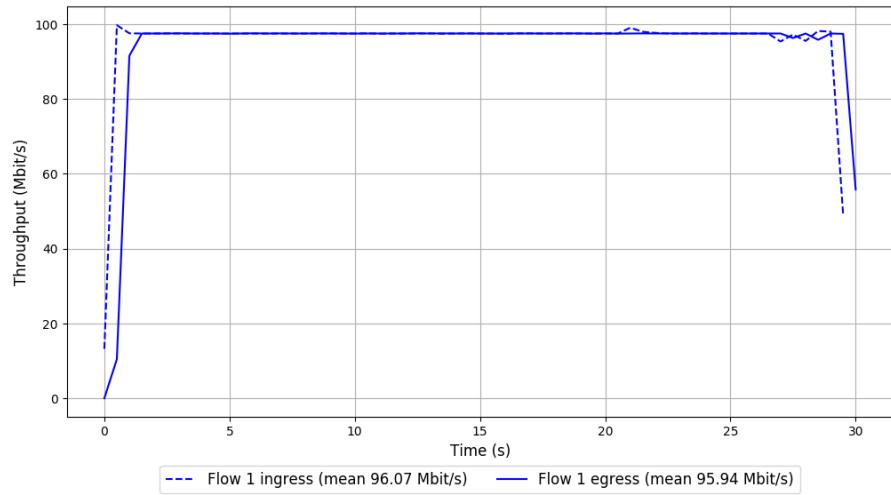


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-11 23:20:12
End at: 2019-07-11 23:20:42
Local clock offset: 5.672 ms
Remote clock offset: -2.675 ms

# Below is generated by plot.py at 2019-07-12 01:34:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 36.355 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 36.355 ms
Loss rate: 0.11%
```

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

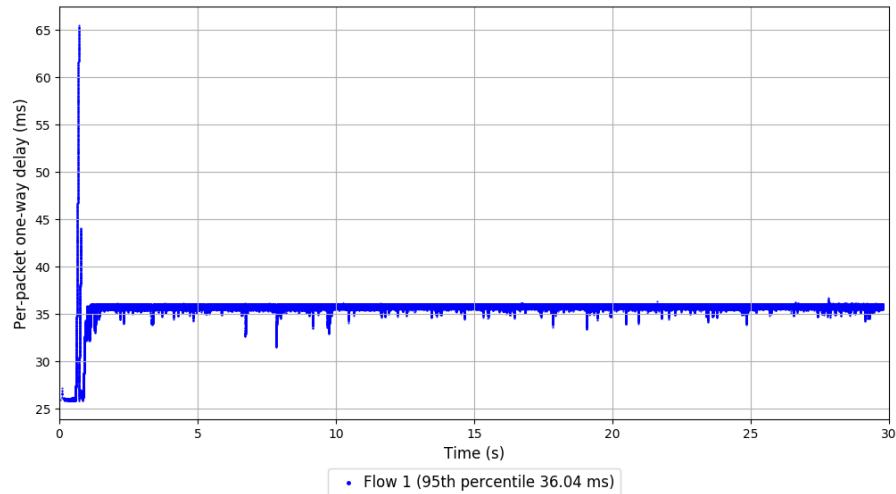
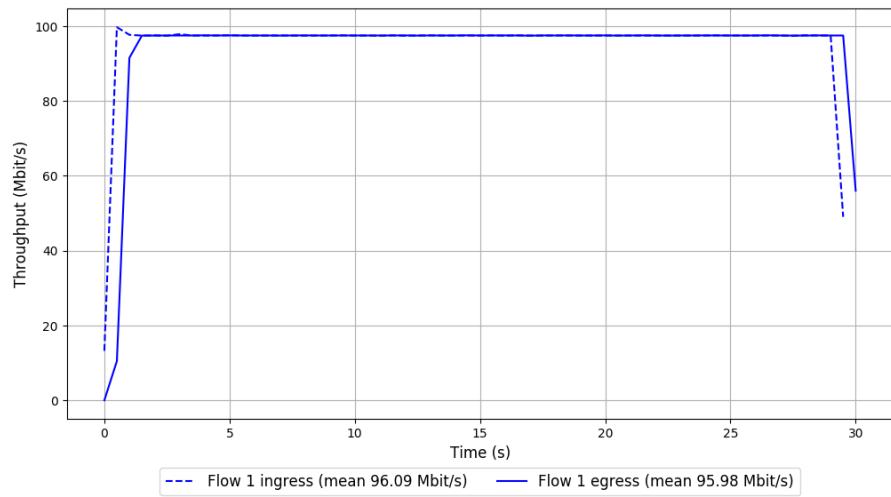


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-11 23:51:58
End at: 2019-07-11 23:52:28
Local clock offset: 5.813 ms
Remote clock offset: -2.307 ms

# Below is generated by plot.py at 2019-07-12 01:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 36.042 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 36.042 ms
Loss rate: 0.08%
```

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

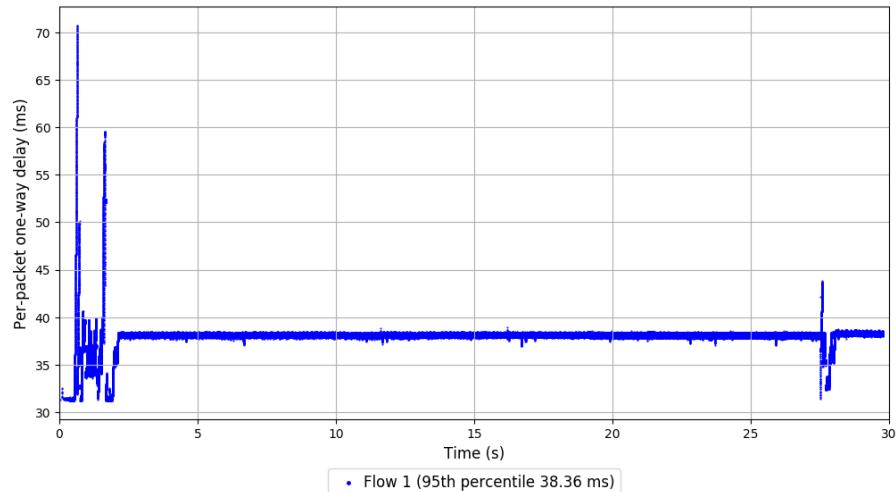
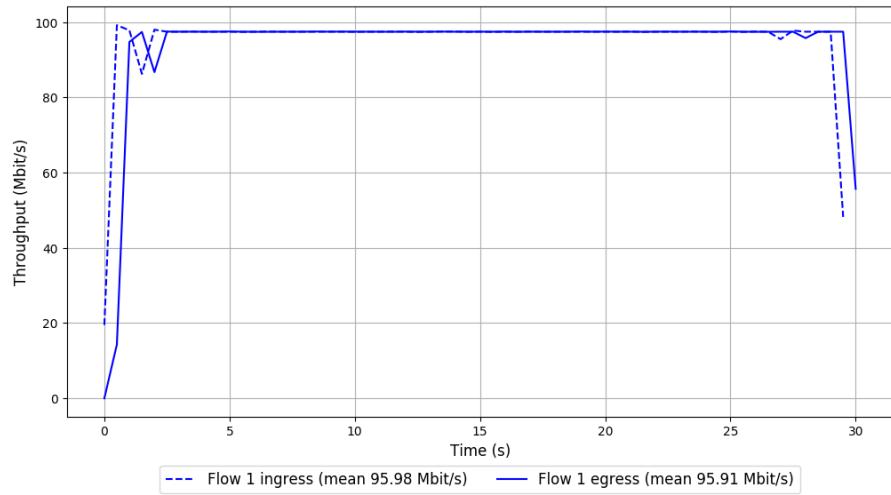


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 00:26:31
End at: 2019-07-12 00:27:01
Local clock offset: 1.734 ms
Remote clock offset: -2.926 ms

# Below is generated by plot.py at 2019-07-12 01:34:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 38.364 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 38.364 ms
Loss rate: 0.05%
```

Run 4: Report of Muses\_DecisionTreeH0 — Data Link

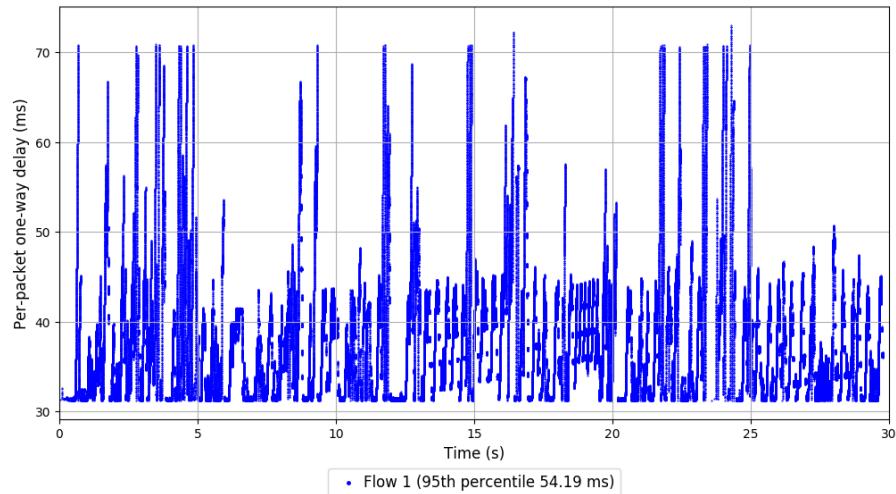
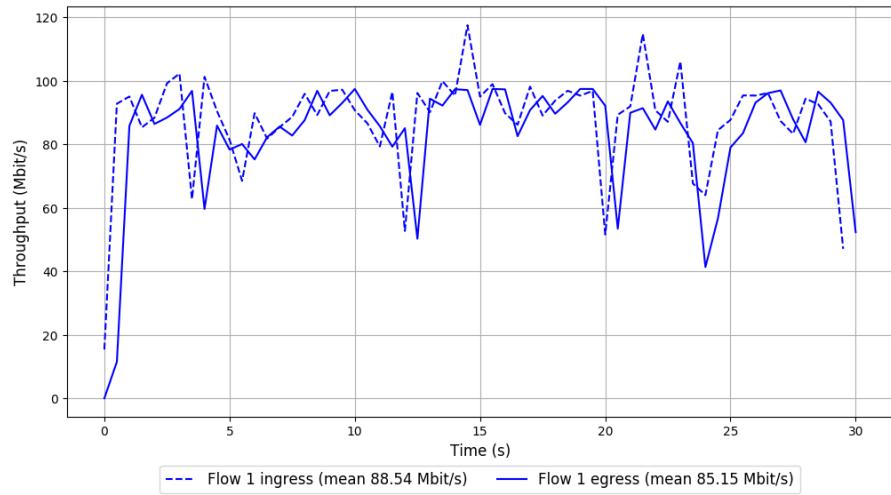


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 00:57:59
End at: 2019-07-12 00:58:29
Local clock offset: 2.07 ms
Remote clock offset: -3.4 ms

# Below is generated by plot.py at 2019-07-12 01:35:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.15 Mbit/s
95th percentile per-packet one-way delay: 54.185 ms
Loss rate: 3.81%
-- Flow 1:
Average throughput: 85.15 Mbit/s
95th percentile per-packet one-way delay: 54.185 ms
Loss rate: 3.81%
```

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

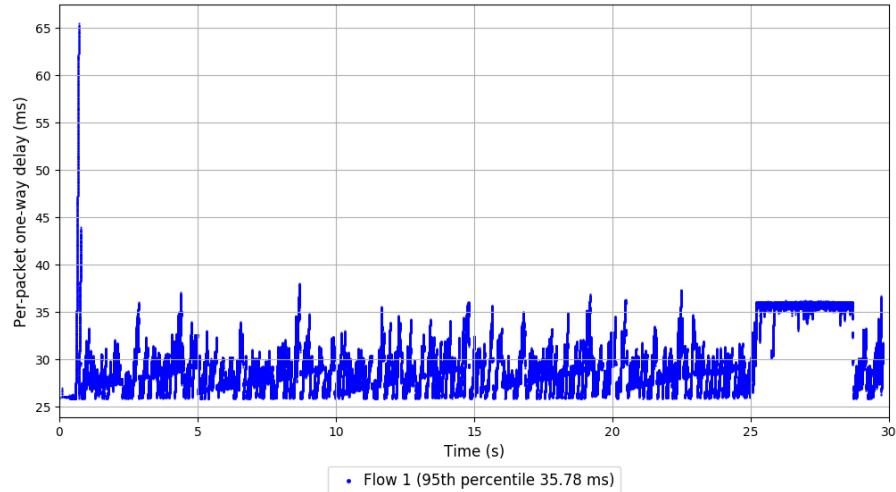
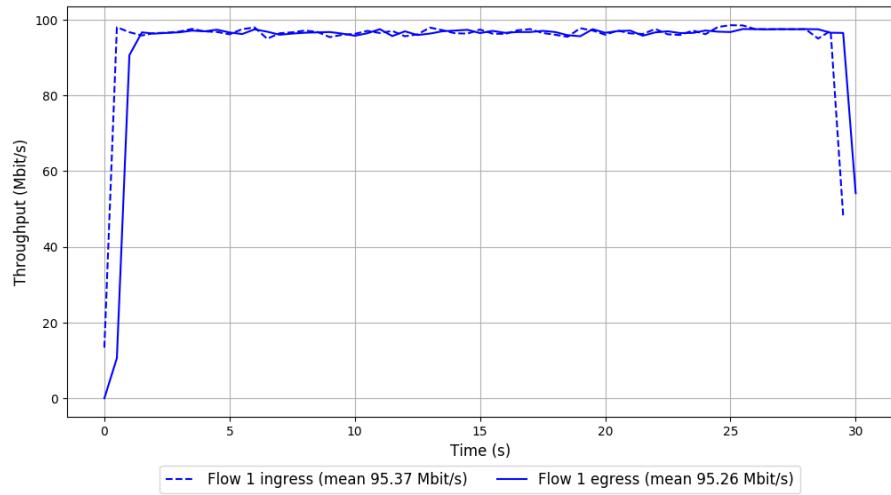


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-11 22:53:18
End at: 2019-07-11 22:53:48
Local clock offset: 6.011 ms
Remote clock offset: -2.708 ms

# Below is generated by plot.py at 2019-07-12 01:35:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 35.781 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 35.781 ms
Loss rate: 0.09%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

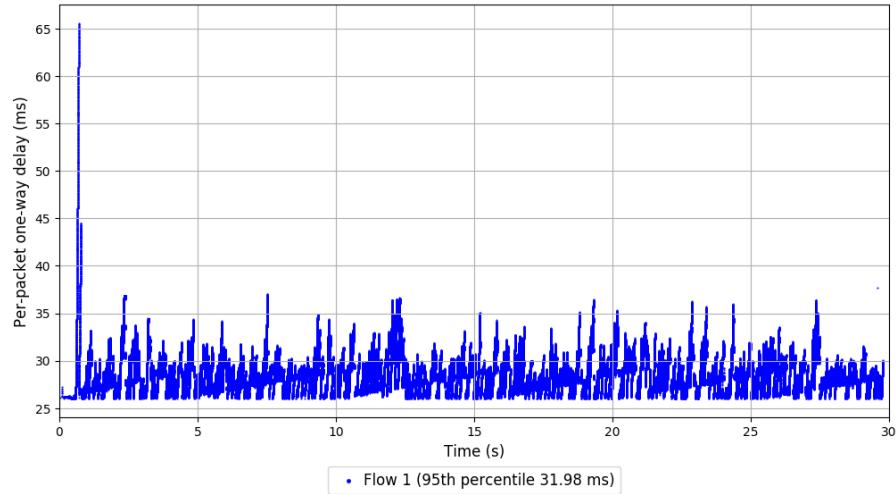
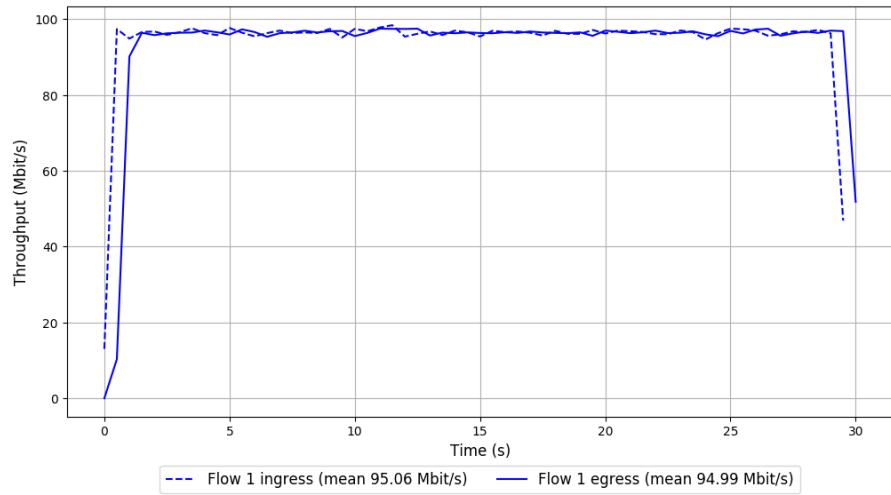


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-11 23:24:36
End at: 2019-07-11 23:25:06
Local clock offset: 5.692 ms
Remote clock offset: -2.522 ms

# Below is generated by plot.py at 2019-07-12 01:35:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.99 Mbit/s
95th percentile per-packet one-way delay: 31.980 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 94.99 Mbit/s
95th percentile per-packet one-way delay: 31.980 ms
Loss rate: 0.07%
```

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

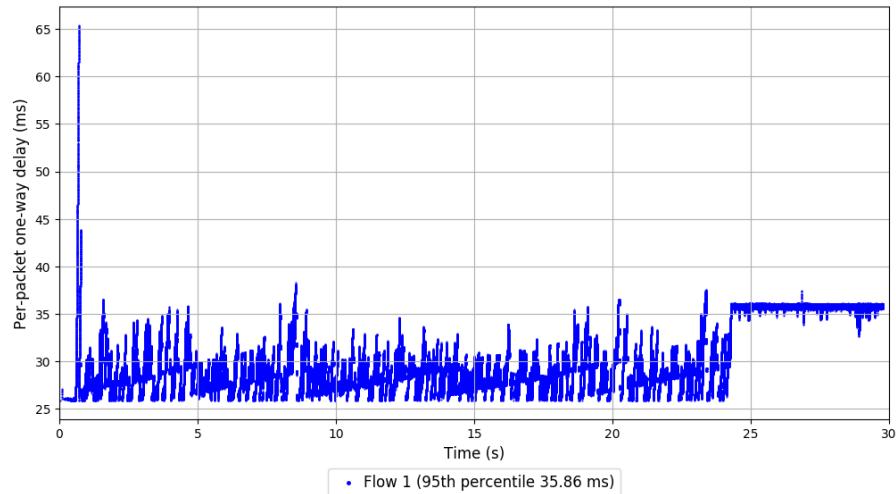
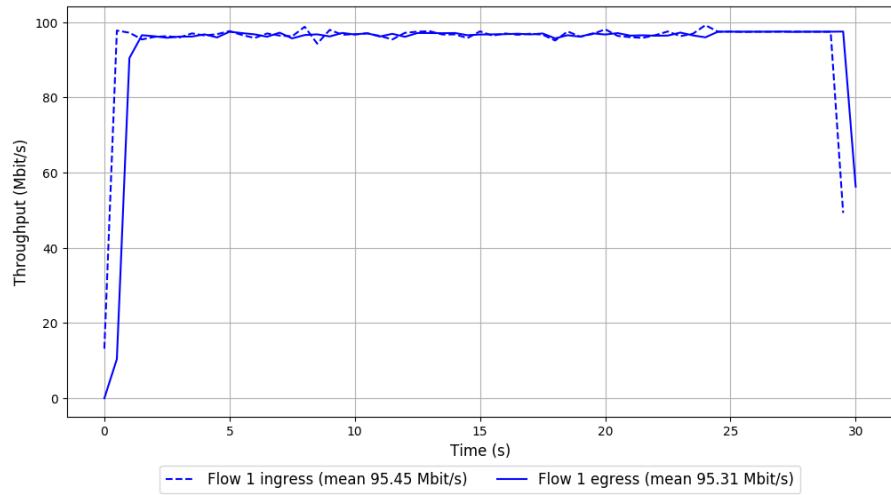


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-11 23:55:54
End at: 2019-07-11 23:56:24
Local clock offset: 5.836 ms
Remote clock offset: -2.249 ms

# Below is generated by plot.py at 2019-07-12 01:35:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 35.858 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 35.858 ms
Loss rate: 0.12%
```

Run 3: Report of Muses\_DecisionTreeR0 — Data Link

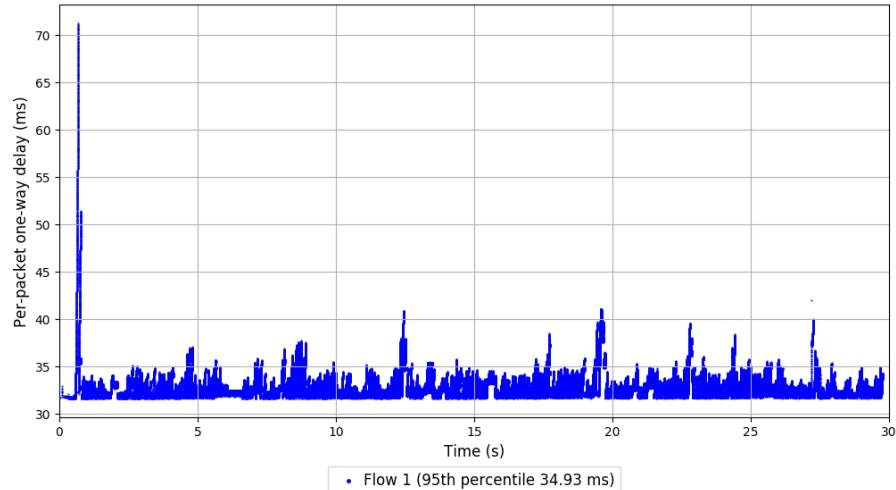
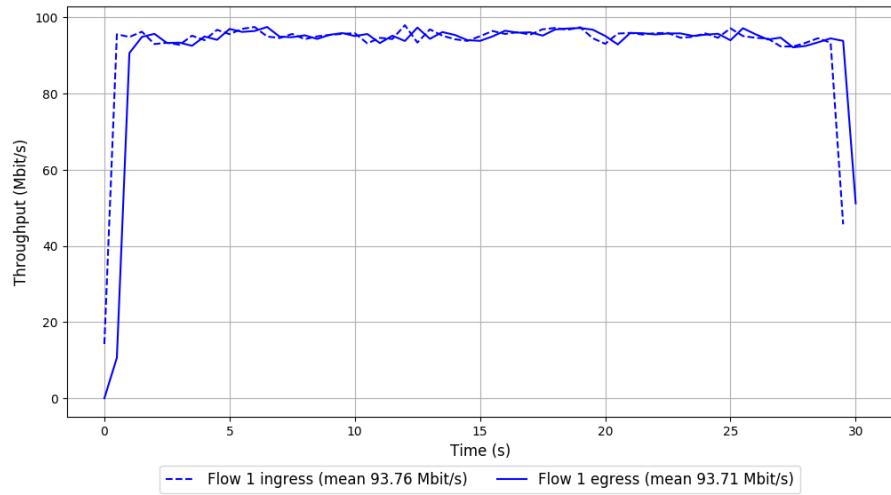


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 00:30:18
End at: 2019-07-12 00:30:48
Local clock offset: 1.679 ms
Remote clock offset: -2.877 ms

# Below is generated by plot.py at 2019-07-12 01:35:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 34.931 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 34.931 ms
Loss rate: 0.05%
```

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

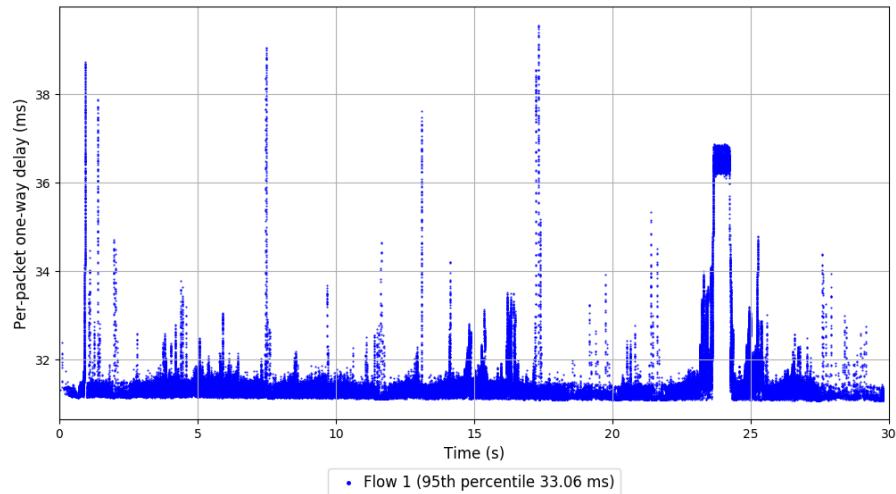
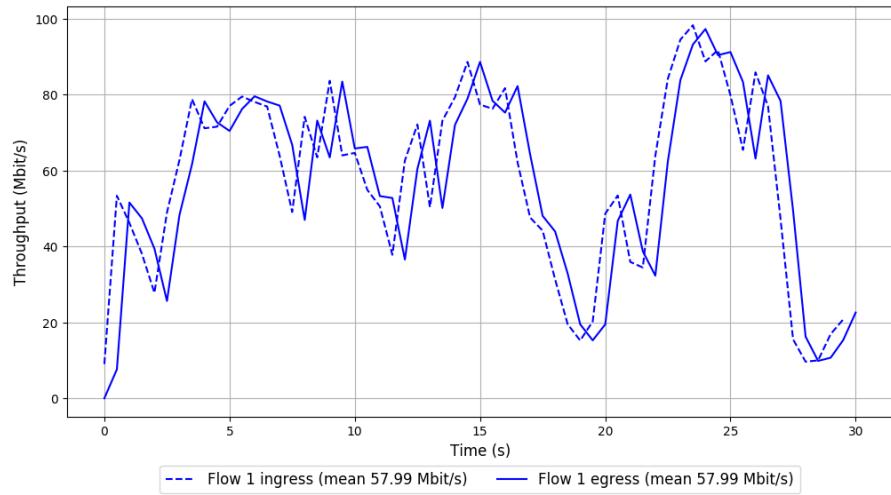


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 01:02:30
End at: 2019-07-12 01:03:00
Local clock offset: 1.264 ms
Remote clock offset: -3.536 ms

# Below is generated by plot.py at 2019-07-12 01:35:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.99 Mbit/s
95th percentile per-packet one-way delay: 33.059 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.99 Mbit/s
95th percentile per-packet one-way delay: 33.059 ms
Loss rate: 0.00%
```

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

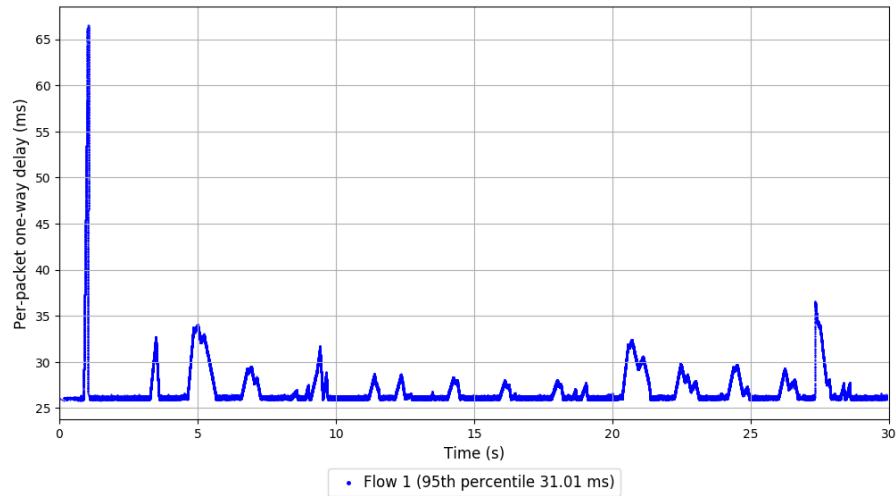
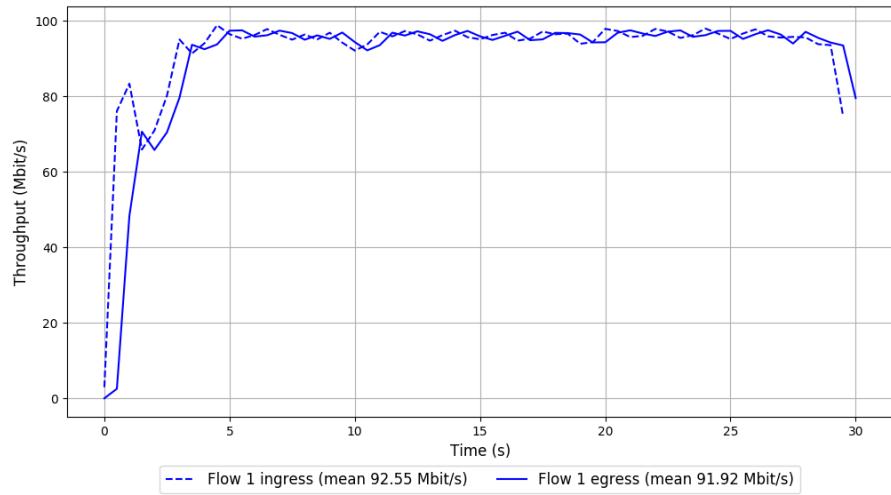


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-07-11 22:57:01
End at: 2019-07-11 22:57:31
Local clock offset: 6.063 ms
Remote clock offset: -2.684 ms

# Below is generated by plot.py at 2019-07-12 01:35:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.92 Mbit/s
95th percentile per-packet one-way delay: 31.011 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 91.92 Mbit/s
95th percentile per-packet one-way delay: 31.011 ms
Loss rate: 0.68%
```

Run 1: Report of PCC-Allegro — Data Link

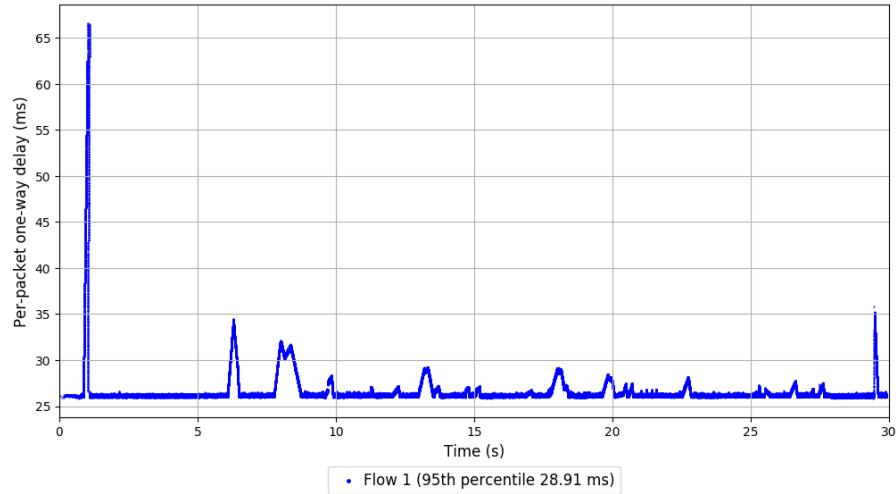
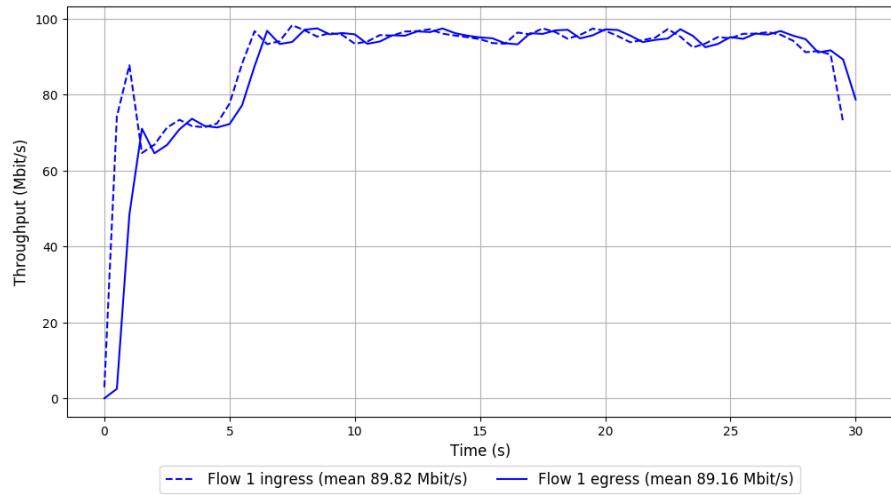


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-07-11 23:28:40
End at: 2019-07-11 23:29:10
Local clock offset: 5.666 ms
Remote clock offset: -2.541 ms

# Below is generated by plot.py at 2019-07-12 01:35:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.16 Mbit/s
95th percentile per-packet one-way delay: 28.906 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 89.16 Mbit/s
95th percentile per-packet one-way delay: 28.906 ms
Loss rate: 0.74%
```

Run 2: Report of PCC-Allegro — Data Link

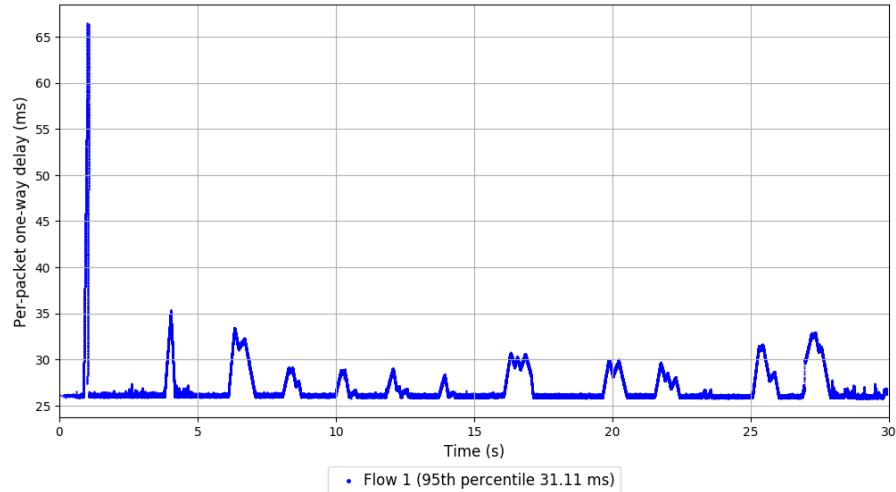
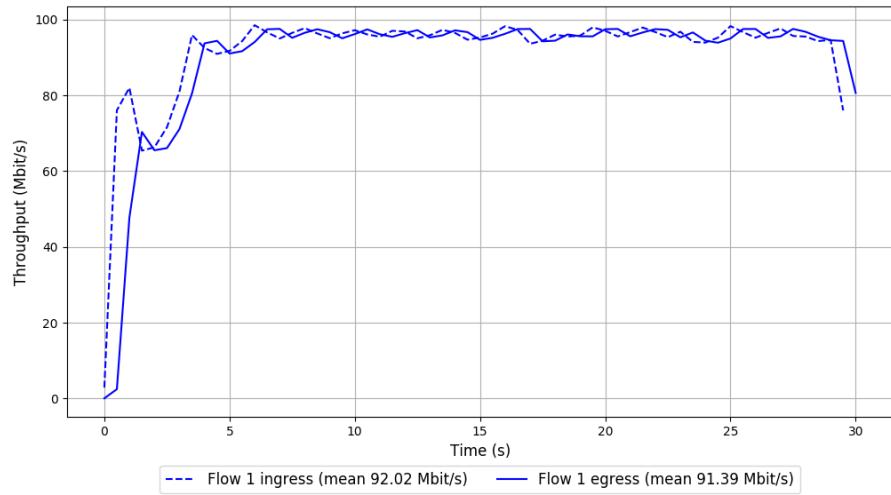


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-07-11 23:59:33
End at: 2019-07-12 00:00:03
Local clock offset: 5.663 ms
Remote clock offset: -2.174 ms

# Below is generated by plot.py at 2019-07-12 01:36:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 31.113 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 31.113 ms
Loss rate: 0.68%
```

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

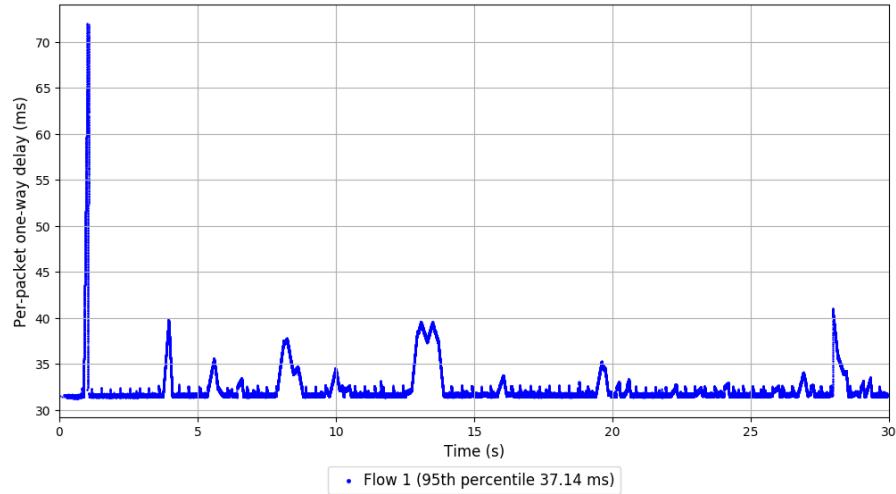
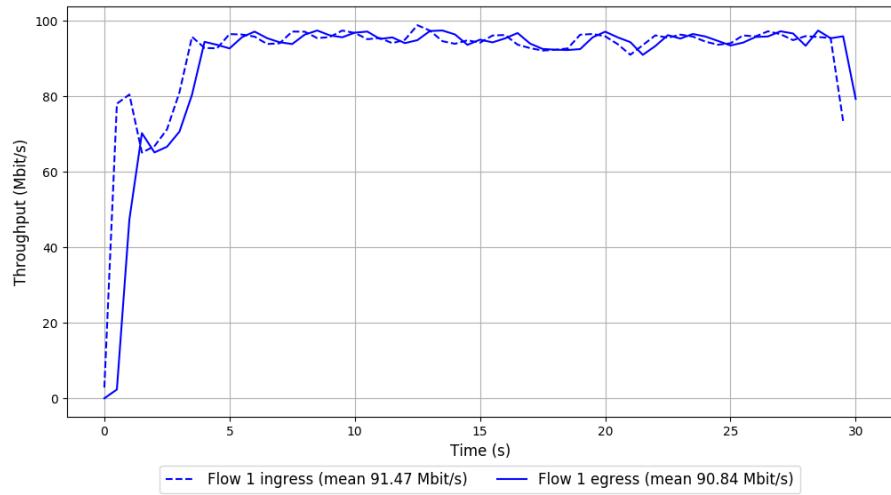


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-07-12 00:33:59
End at: 2019-07-12 00:34:29
Local clock offset: 2.057 ms
Remote clock offset: -2.911 ms

# Below is generated by plot.py at 2019-07-12 01:36:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.84 Mbit/s
95th percentile per-packet one-way delay: 37.142 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 90.84 Mbit/s
95th percentile per-packet one-way delay: 37.142 ms
Loss rate: 0.68%
```

Run 4: Report of PCC-Allegro — Data Link

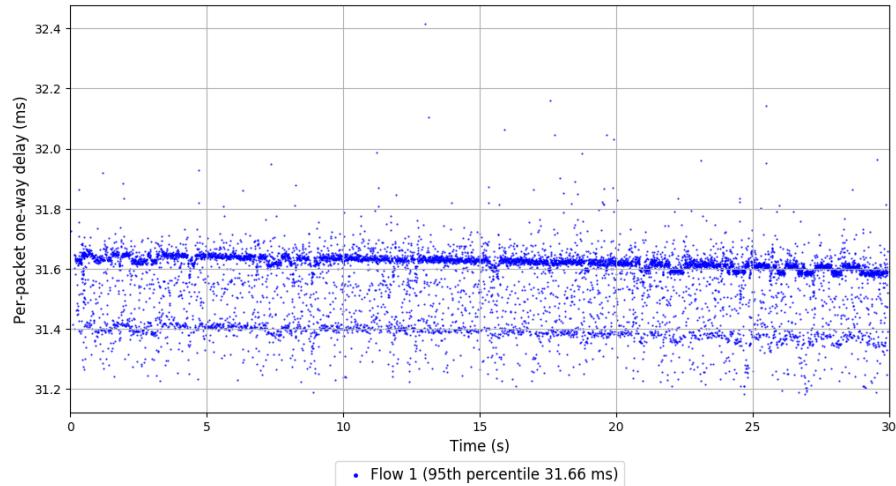
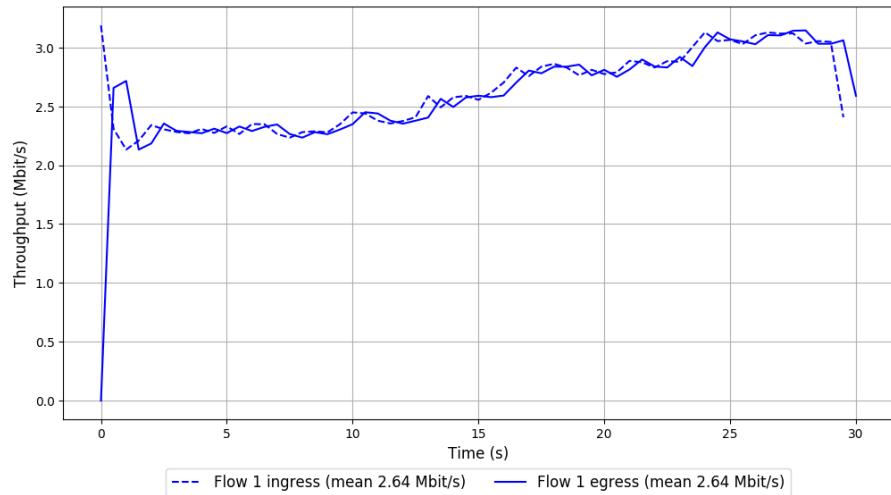


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-07-12 01:07:15
End at: 2019-07-12 01:07:45
Local clock offset: 0.421 ms
Remote clock offset: -3.701 ms

# Below is generated by plot.py at 2019-07-12 01:36:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.64 Mbit/s
95th percentile per-packet one-way delay: 31.665 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.64 Mbit/s
95th percentile per-packet one-way delay: 31.665 ms
Loss rate: 0.00%
```

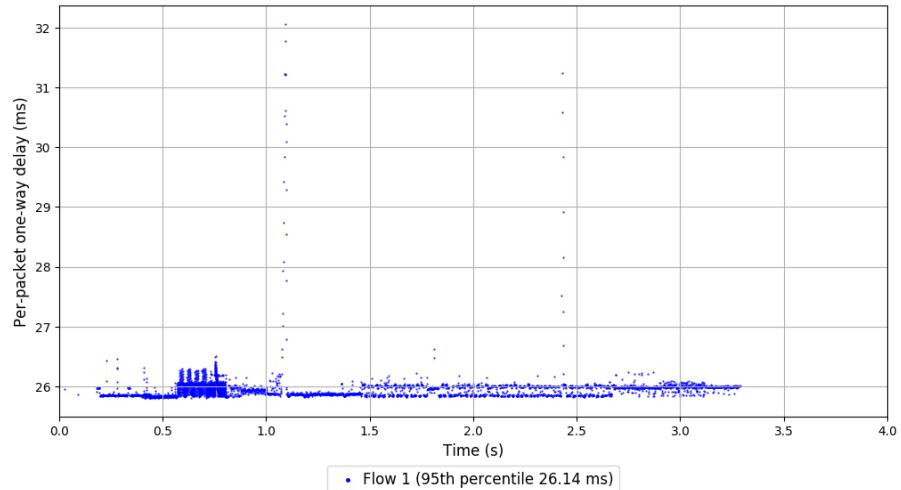
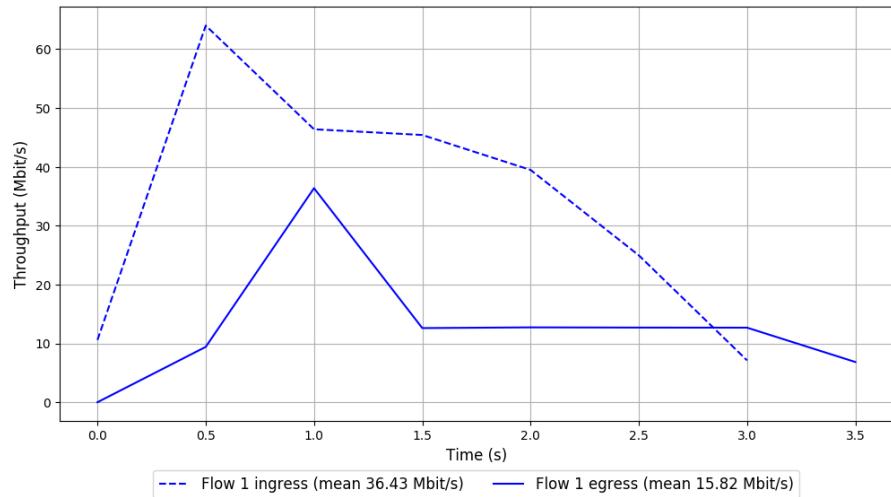
Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-07-11 23:05:51  
End at: 2019-07-11 23:06:21  
Local clock offset: 5.827 ms  
Remote clock offset: -2.706 ms

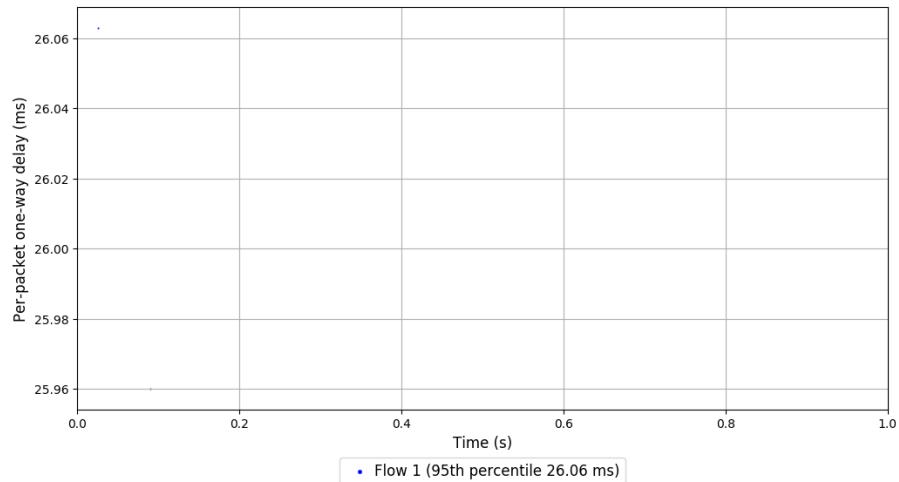
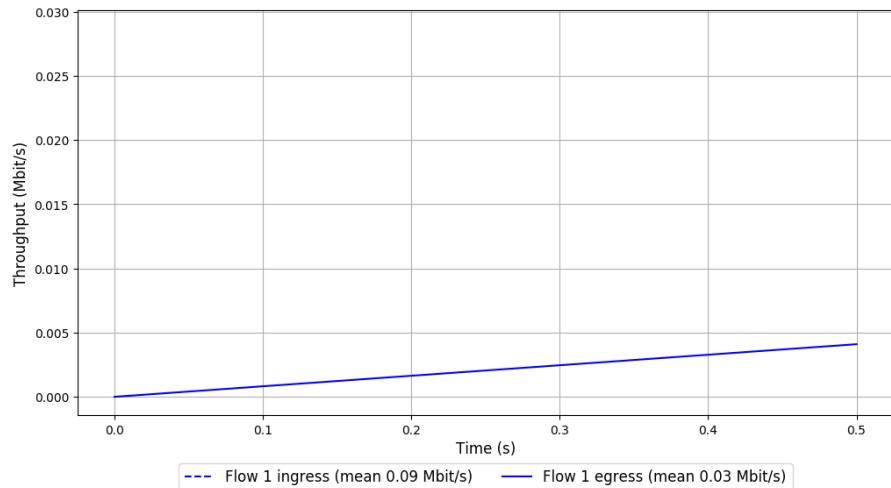
## Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-07-11 23:38:00  
End at: 2019-07-11 23:38:30  
Local clock offset: 5.744 ms  
Remote clock offset: -2.433 ms

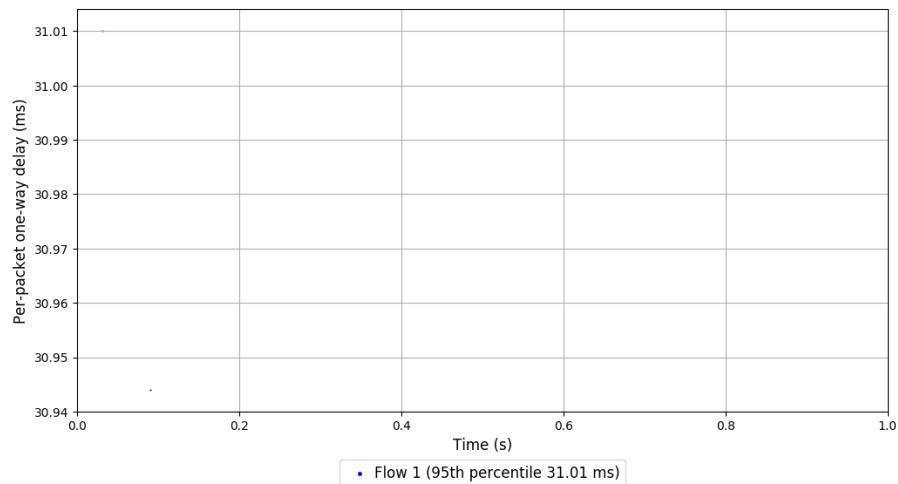
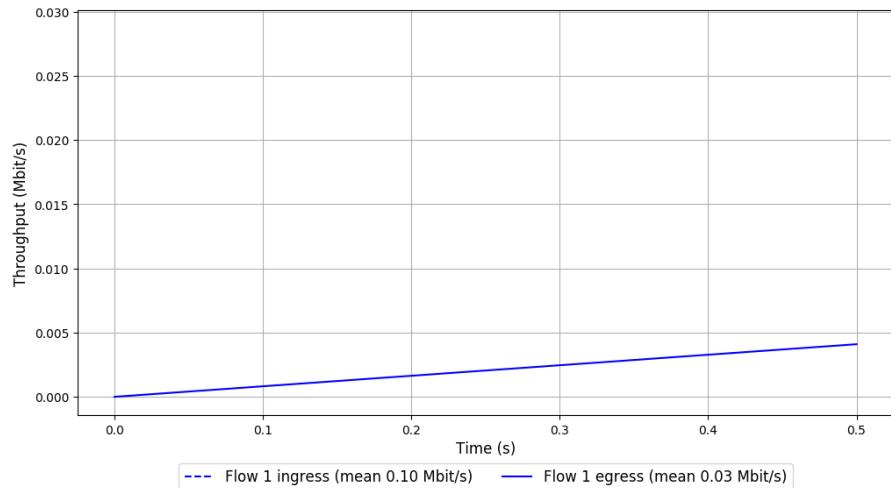
Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-07-12 00:12:47  
End at: 2019-07-12 00:13:17  
Local clock offset: 2.912 ms  
Remote clock offset: -2.676 ms

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

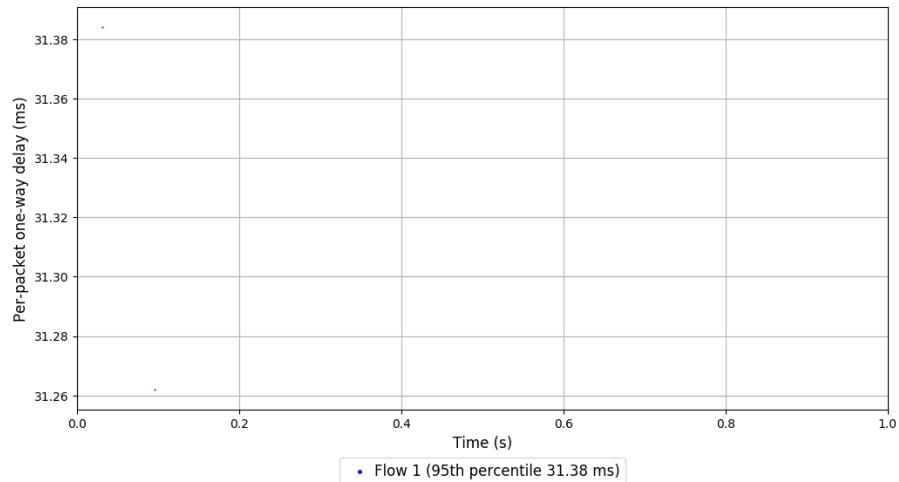
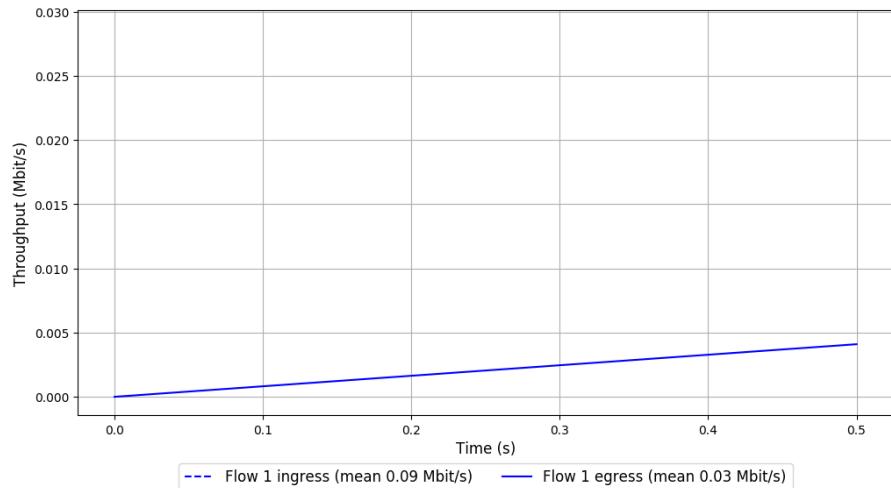
Start at: 2019-07-12 00:43:08

End at: 2019-07-12 00:43:38

Local clock offset: 2.289 ms

Remote clock offset: -3.06 ms

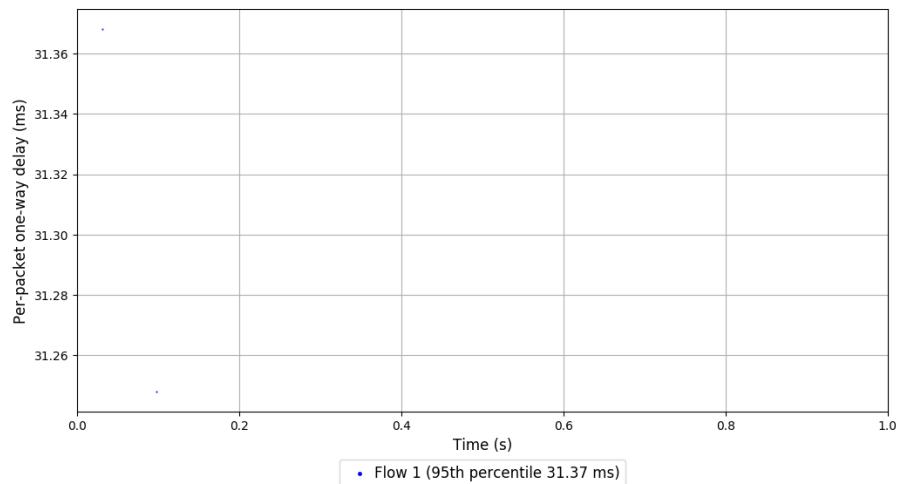
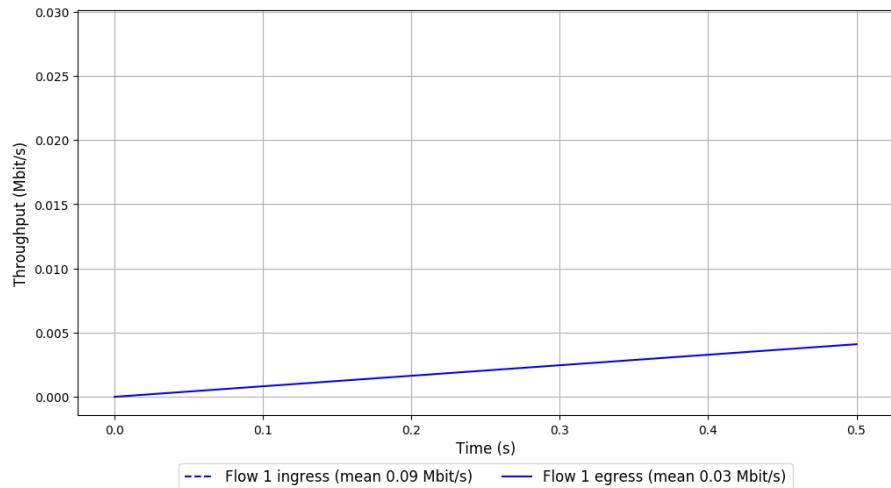
## Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-07-12 01:18:43  
End at: 2019-07-12 01:19:13  
Local clock offset: -0.77 ms  
Remote clock offset: -4.186 ms

Run 5: Report of PCC-Expr — Data Link

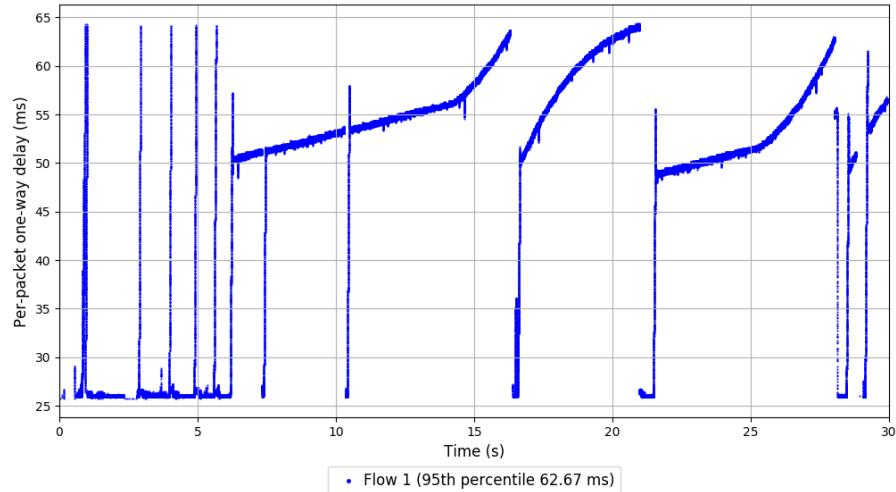
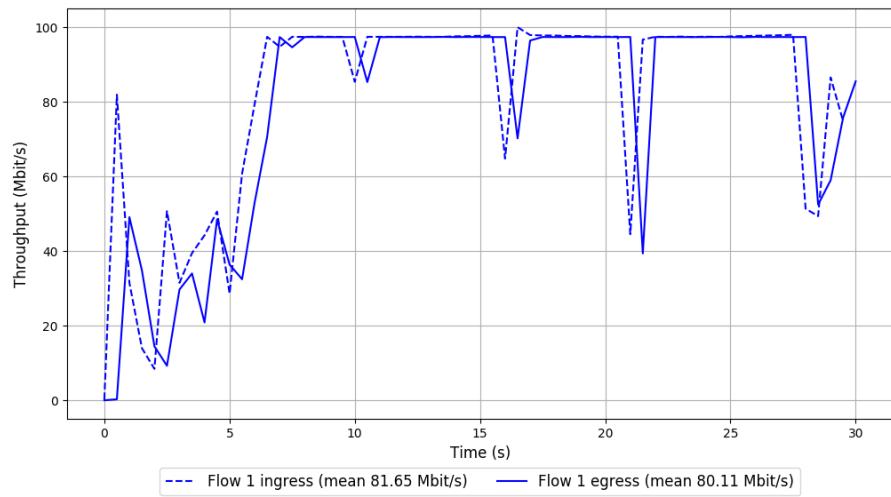


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-07-11 22:45:21
End at: 2019-07-11 22:45:51
Local clock offset: 5.837 ms
Remote clock offset: -2.759 ms

# Below is generated by plot.py at 2019-07-12 01:36:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.11 Mbit/s
95th percentile per-packet one-way delay: 62.669 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 80.11 Mbit/s
95th percentile per-packet one-way delay: 62.669 ms
Loss rate: 1.78%
```

Run 1: Report of QUIC Cubic — Data Link

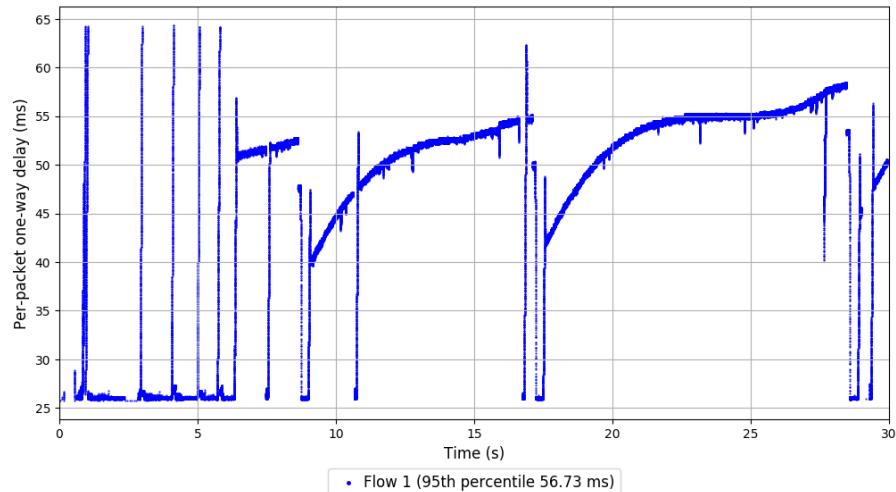
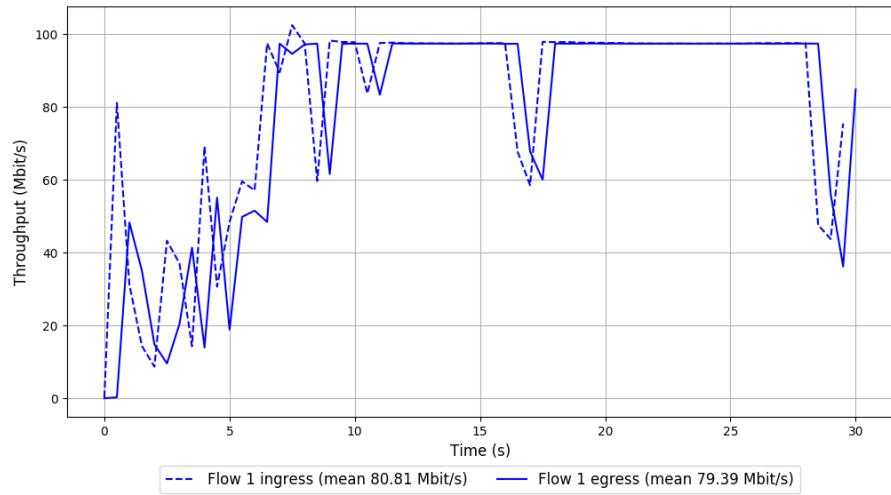


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-07-11 23:16:06
End at: 2019-07-11 23:16:36
Local clock offset: 5.714 ms
Remote clock offset: -2.64 ms

# Below is generated by plot.py at 2019-07-12 01:36:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.39 Mbit/s
95th percentile per-packet one-way delay: 56.733 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 79.39 Mbit/s
95th percentile per-packet one-way delay: 56.733 ms
Loss rate: 1.67%
```

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

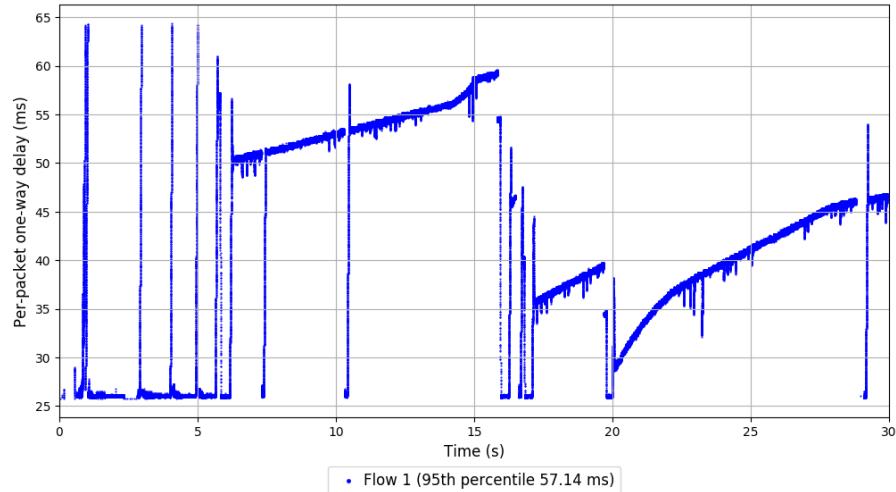
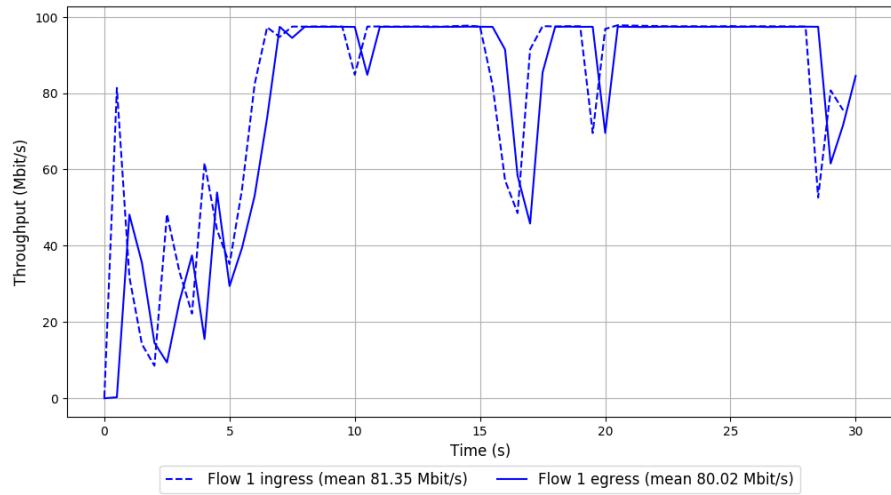


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-07-11 23:48:02
End at: 2019-07-11 23:48:32
Local clock offset: 5.781 ms
Remote clock offset: -2.389 ms

# Below is generated by plot.py at 2019-07-12 01:36:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.02 Mbit/s
95th percentile per-packet one-way delay: 57.142 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 80.02 Mbit/s
95th percentile per-packet one-way delay: 57.142 ms
Loss rate: 1.56%
```

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

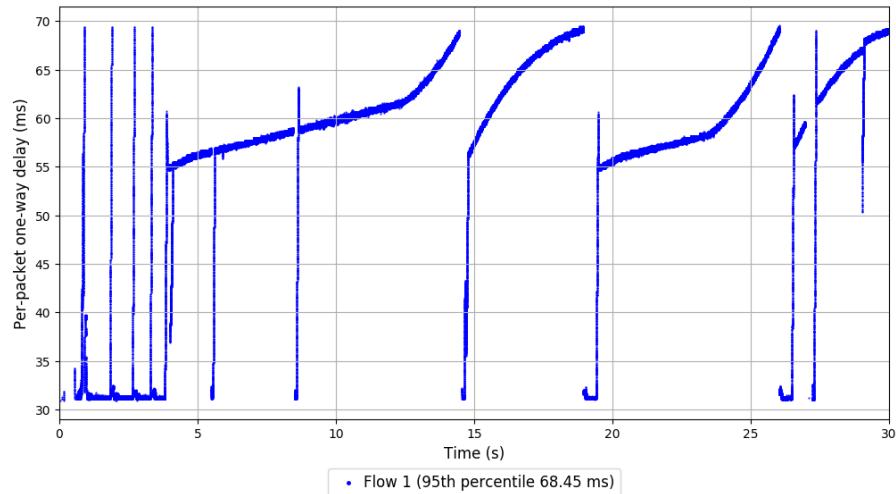
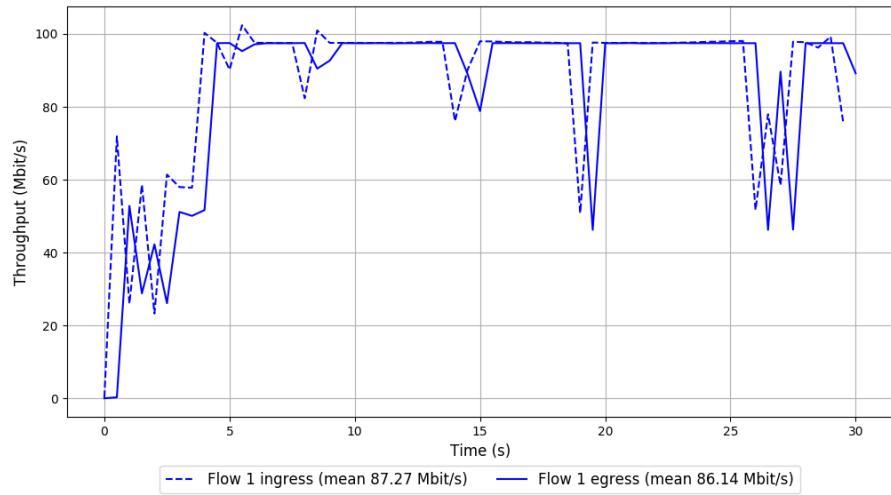


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-07-12 00:22:45
End at: 2019-07-12 00:23:15
Local clock offset: 1.967 ms
Remote clock offset: -2.881 ms

# Below is generated by plot.py at 2019-07-12 01:36:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.14 Mbit/s
95th percentile per-packet one-way delay: 68.446 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 86.14 Mbit/s
95th percentile per-packet one-way delay: 68.446 ms
Loss rate: 1.16%
```

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

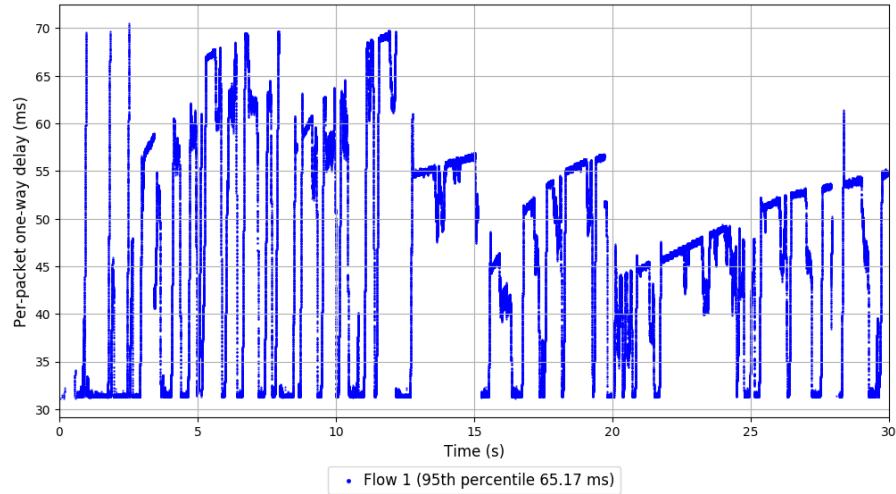
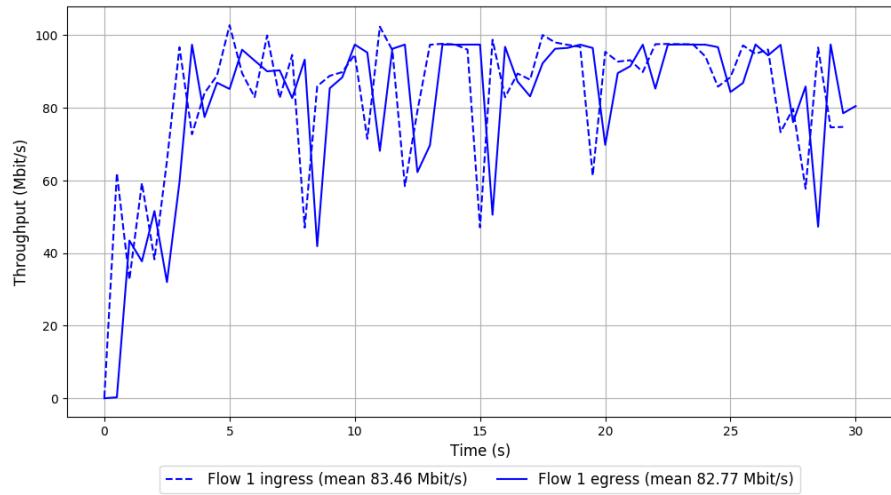


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-07-12 00:53:20
End at: 2019-07-12 00:53:50
Local clock offset: 2.175 ms
Remote clock offset: -3.219 ms

# Below is generated by plot.py at 2019-07-12 01:36:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.77 Mbit/s
95th percentile per-packet one-way delay: 65.171 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 82.77 Mbit/s
95th percentile per-packet one-way delay: 65.171 ms
Loss rate: 0.75%
```

Run 5: Report of QUIC Cubic — Data Link

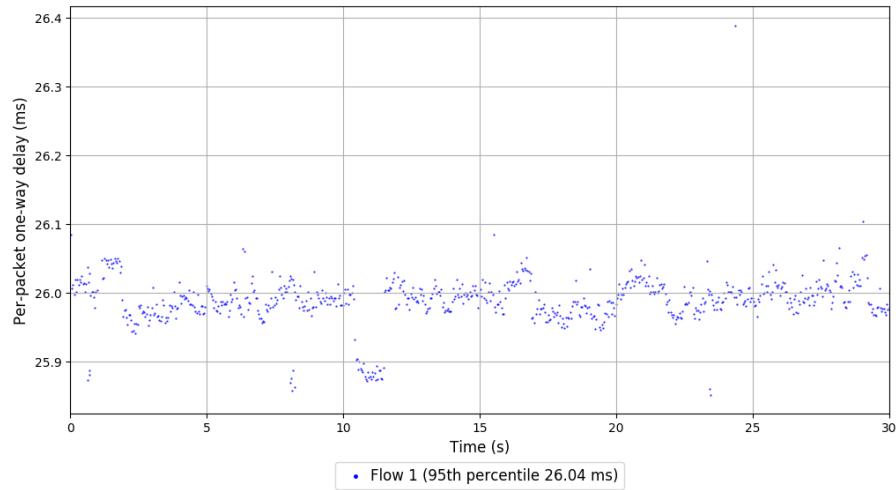
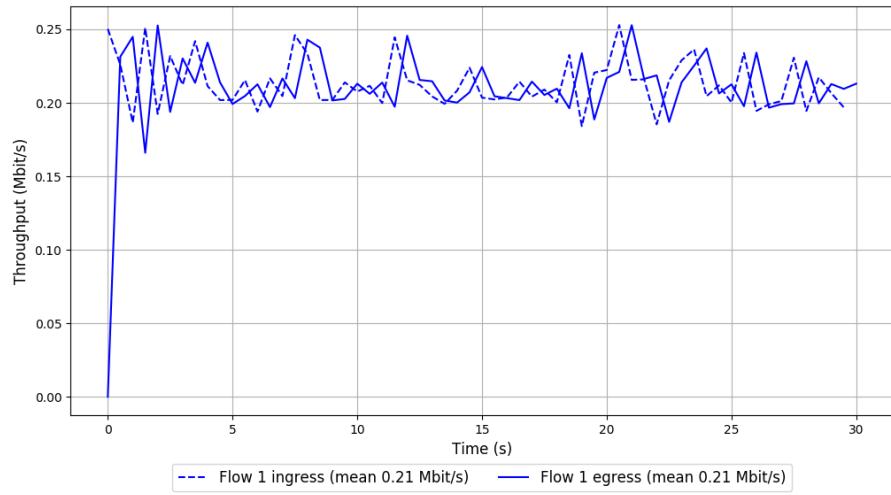


Run 1: Statistics of SCReAM

```
Start at: 2019-07-11 22:42:55
End at: 2019-07-11 22:43:25
Local clock offset: 5.737 ms
Remote clock offset: -2.808 ms

# Below is generated by plot.py at 2019-07-12 01:36:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 26.035 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 26.035 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

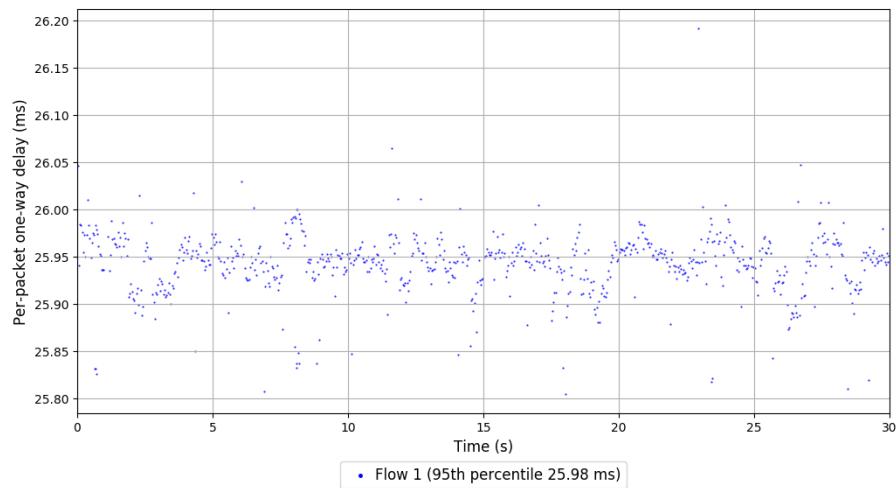
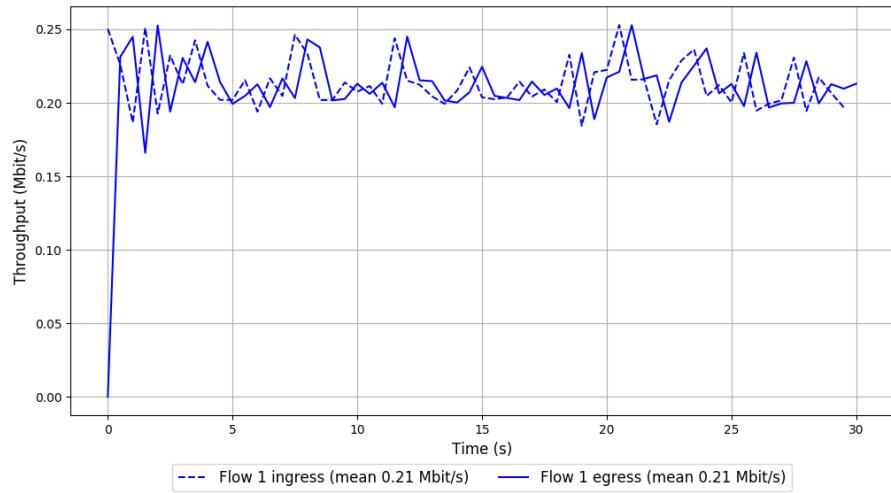


Run 2: Statistics of SCReAM

```
Start at: 2019-07-11 23:13:37
End at: 2019-07-11 23:14:07
Local clock offset: 5.714 ms
Remote clock offset: -2.721 ms

# Below is generated by plot.py at 2019-07-12 01:36:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.985 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.985 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

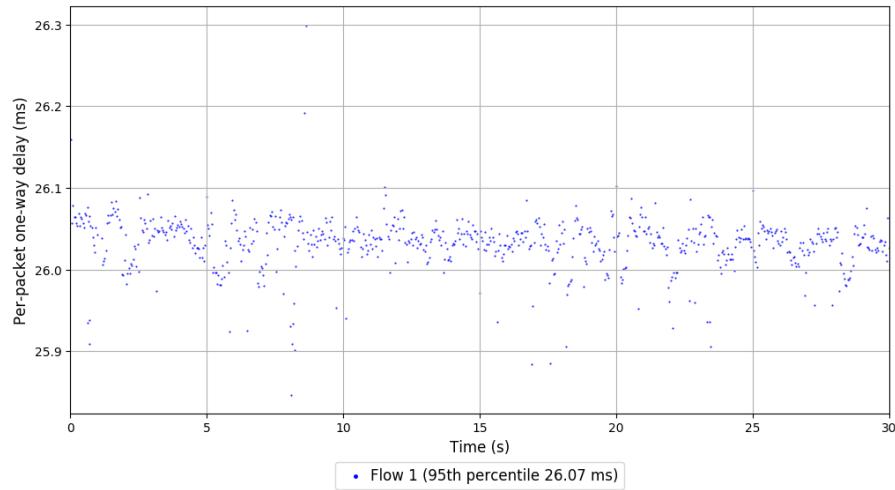
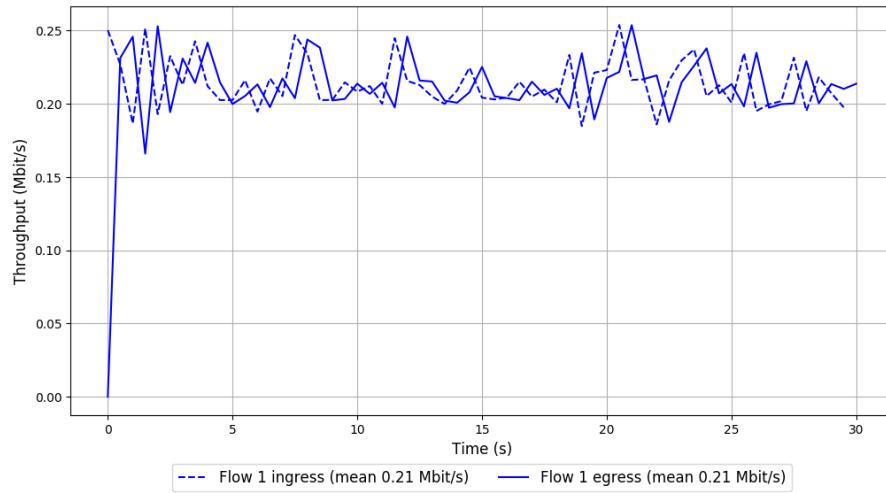


Run 3: Statistics of SCReAM

```
Start at: 2019-07-11 23:45:36
End at: 2019-07-11 23:46:06
Local clock offset: 5.78 ms
Remote clock offset: -2.381 ms

# Below is generated by plot.py at 2019-07-12 01:36:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 26.068 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 26.068 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

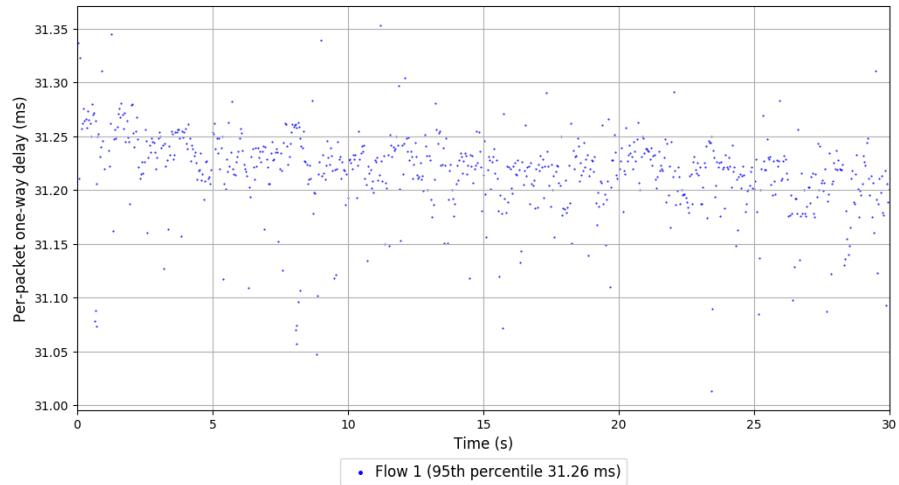
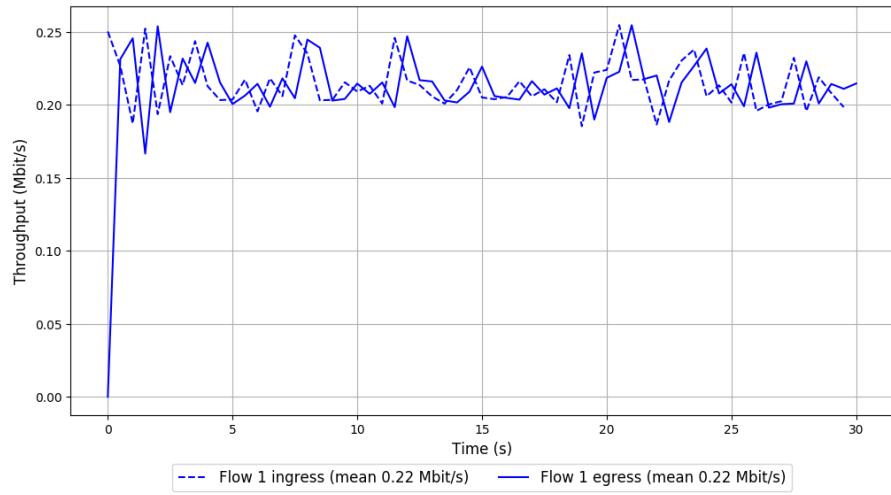


Run 4: Statistics of SCReAM

```
Start at: 2019-07-12 00:20:18
End at: 2019-07-12 00:20:48
Local clock offset: 2.178 ms
Remote clock offset: -2.875 ms

# Below is generated by plot.py at 2019-07-12 01:36:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.263 ms
Loss rate: 0.00%
```

## Run 4: Report of SCReAM — Data Link

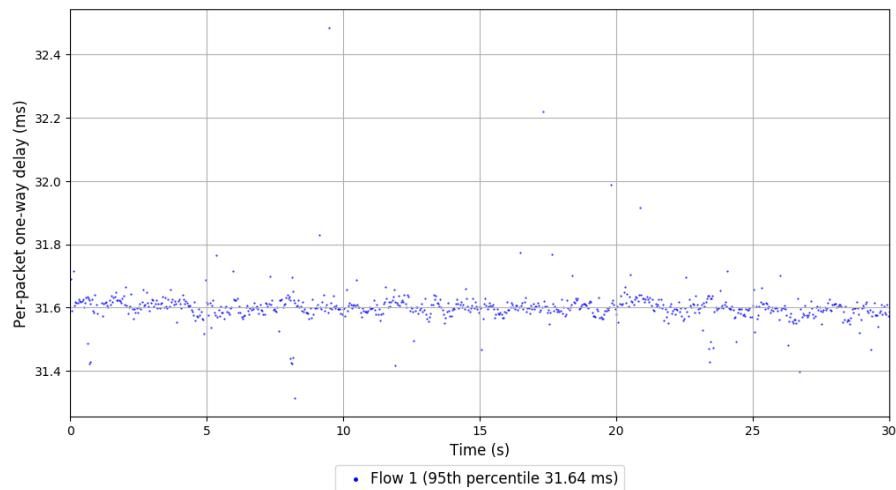
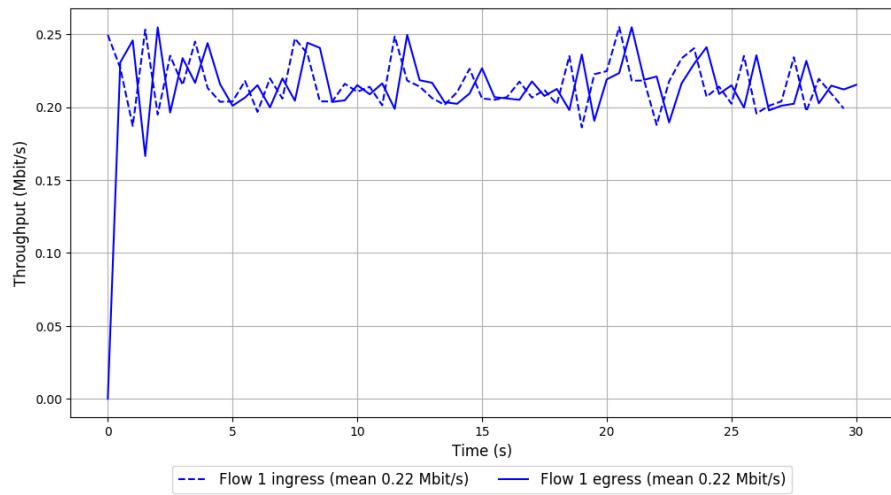


Run 5: Statistics of SCReAM

```
Start at: 2019-07-12 00:50:35
End at: 2019-07-12 00:51:06
Local clock offset: 2.257 ms
Remote clock offset: -3.058 ms

# Below is generated by plot.py at 2019-07-12 01:36:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.641 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.641 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

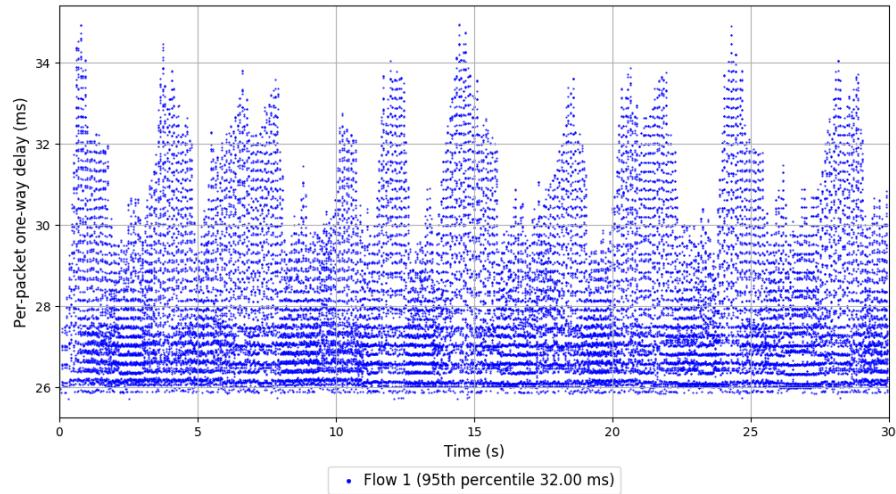
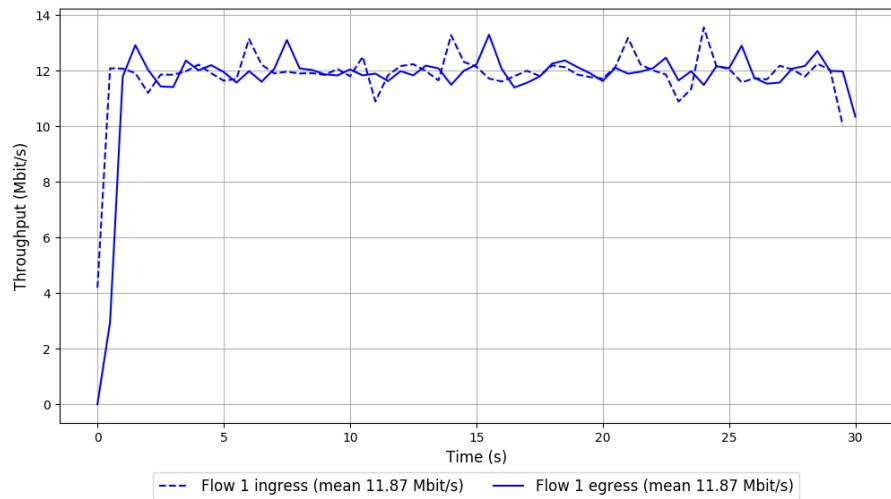


Run 1: Statistics of Sprout

```
Start at: 2019-07-11 23:08:19
End at: 2019-07-11 23:08:49
Local clock offset: 5.787 ms
Remote clock offset: -2.689 ms

# Below is generated by plot.py at 2019-07-12 01:36:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.87 Mbit/s
95th percentile per-packet one-way delay: 31.995 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.87 Mbit/s
95th percentile per-packet one-way delay: 31.995 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

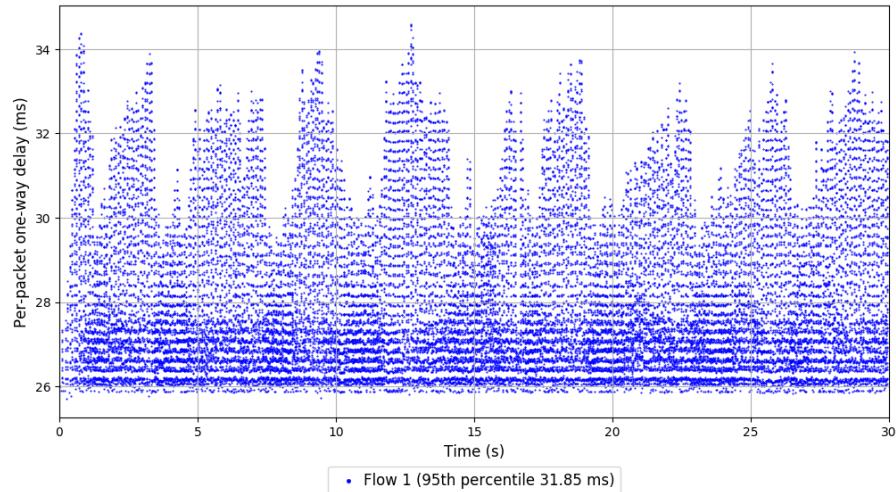
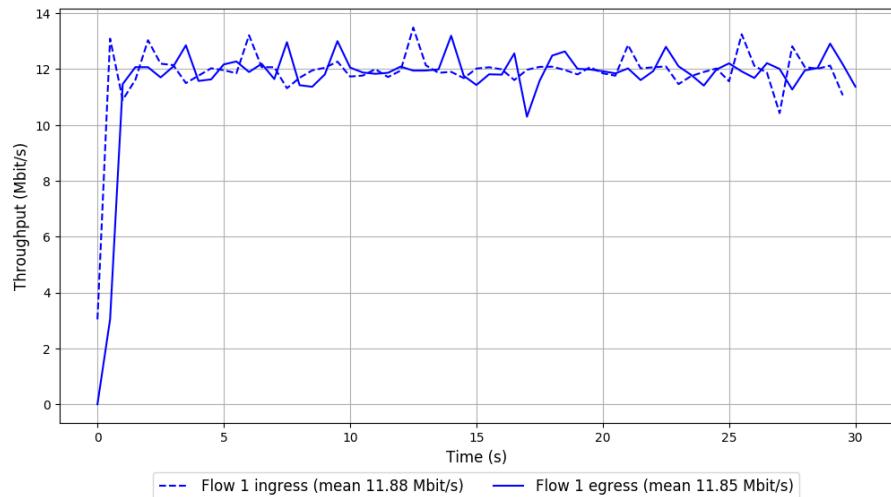


Run 2: Statistics of Sprout

```
Start at: 2019-07-11 23:40:28
End at: 2019-07-11 23:40:58
Local clock offset: 5.735 ms
Remote clock offset: -2.466 ms

# Below is generated by plot.py at 2019-07-12 01:36:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 31.848 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 31.848 ms
Loss rate: 0.17%
```

## Run 2: Report of Sprout — Data Link

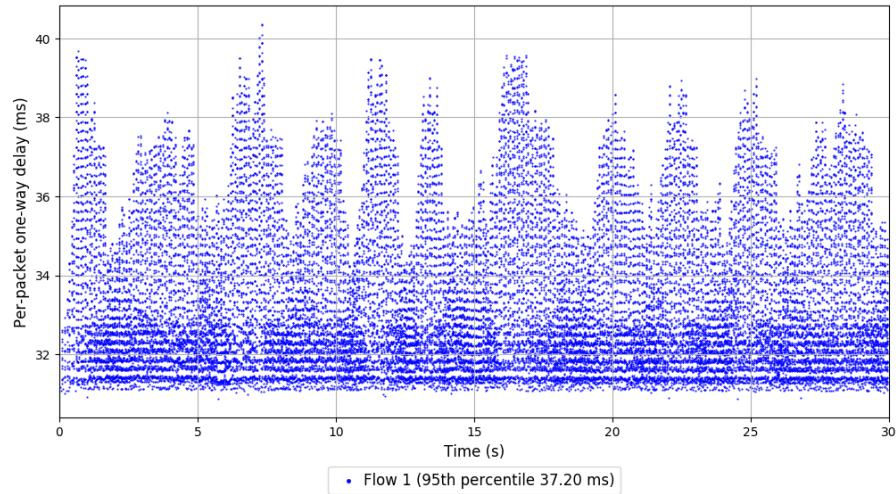
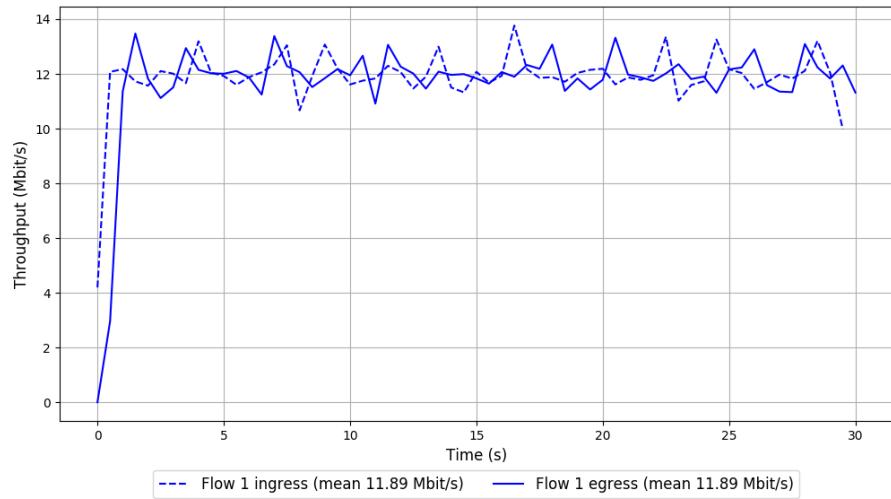


Run 3: Statistics of Sprout

```
Start at: 2019-07-12 00:15:13
End at: 2019-07-12 00:15:43
Local clock offset: 2.639 ms
Remote clock offset: -2.678 ms

# Below is generated by plot.py at 2019-07-12 01:36:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 37.197 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 37.197 ms
Loss rate: 0.00%
```

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

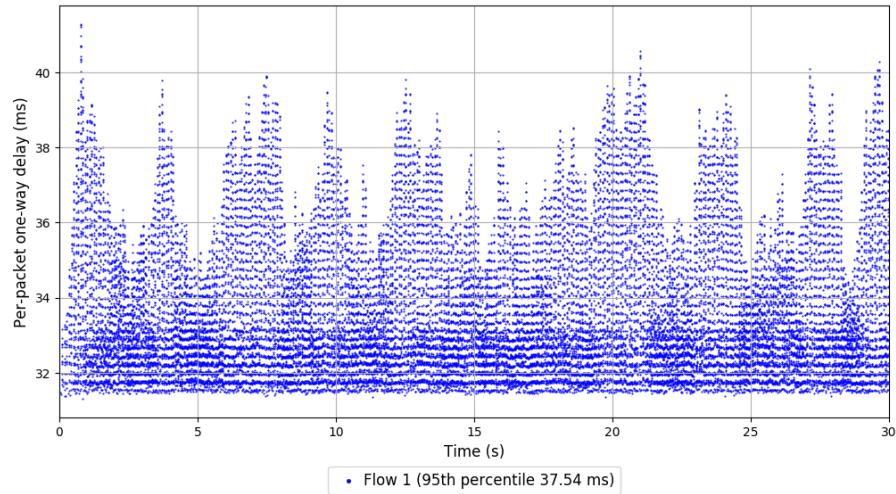
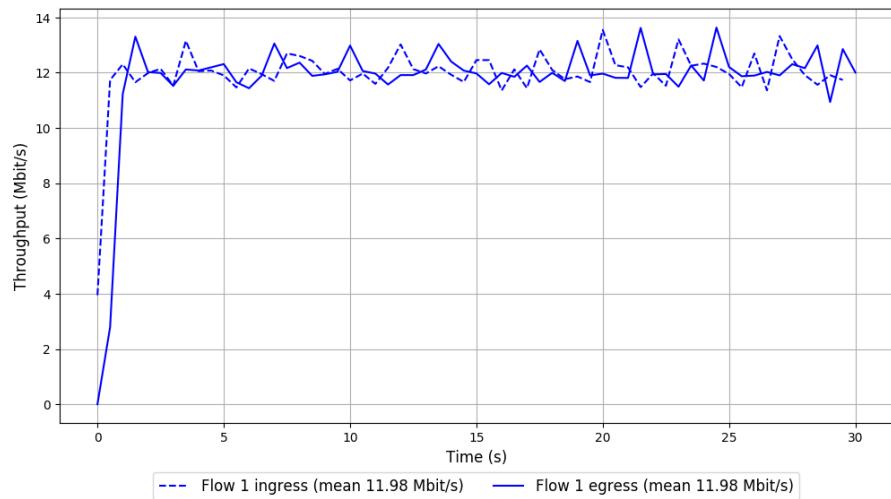


Run 4: Statistics of Sprout

```
Start at: 2019-07-12 00:45:28
End at: 2019-07-12 00:45:58
Local clock offset: 2.316 ms
Remote clock offset: -3.1 ms

# Below is generated by plot.py at 2019-07-12 01:36:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 37.543 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 37.543 ms
Loss rate: 0.00%
```

## Run 4: Report of Sprout — Data Link

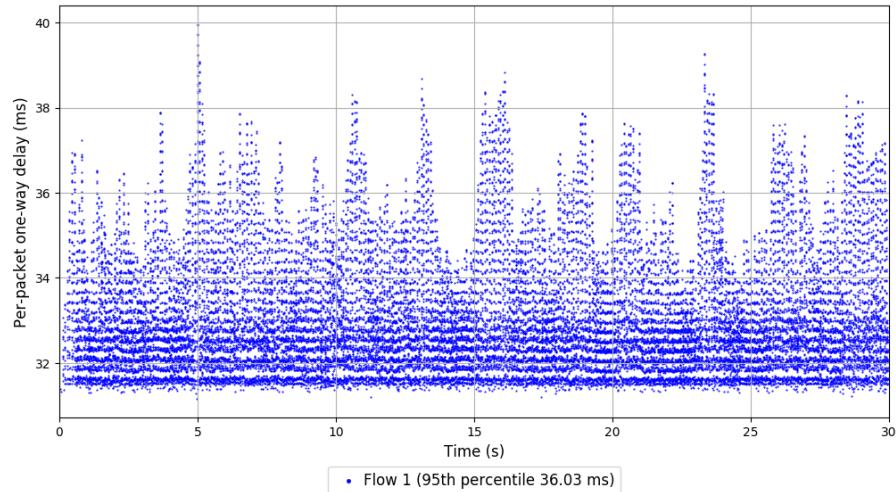
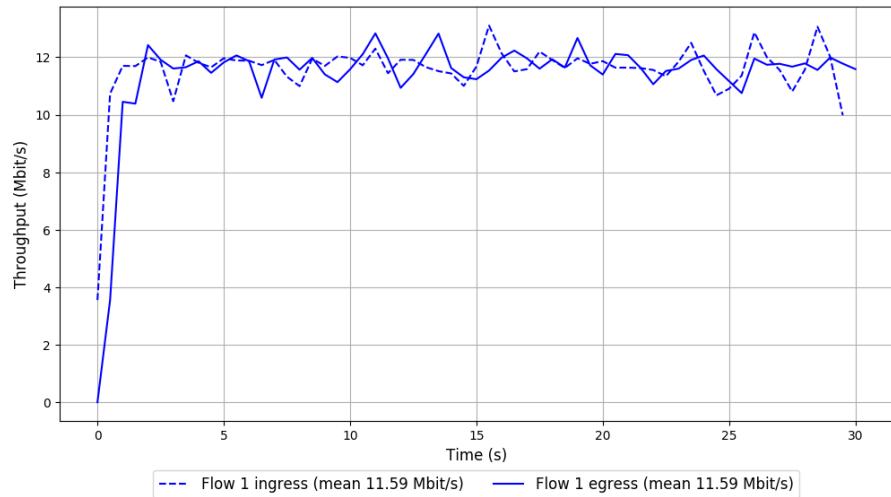


Run 5: Statistics of Sprout

```
Start at: 2019-07-12 01:21:56
End at: 2019-07-12 01:22:26
Local clock offset: -1.038 ms
Remote clock offset: -4.227 ms

# Below is generated by plot.py at 2019-07-12 01:36:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 36.034 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 36.034 ms
Loss rate: 0.00%
```

## Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

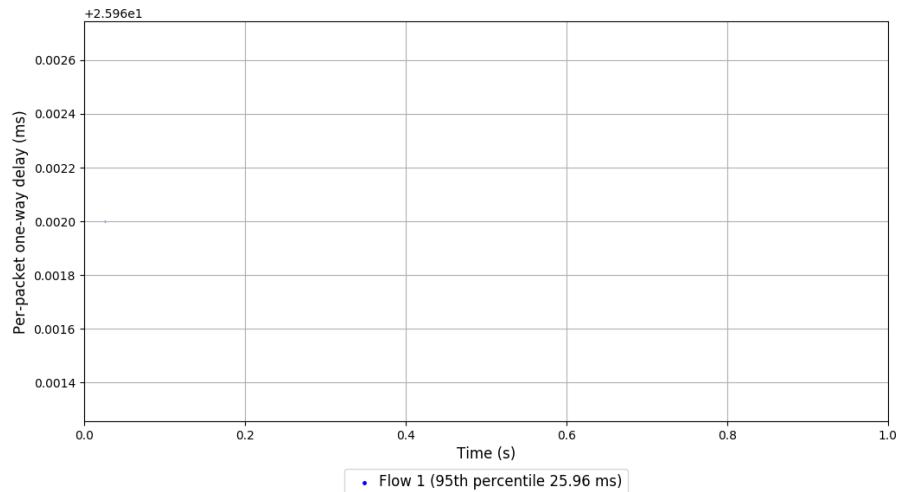
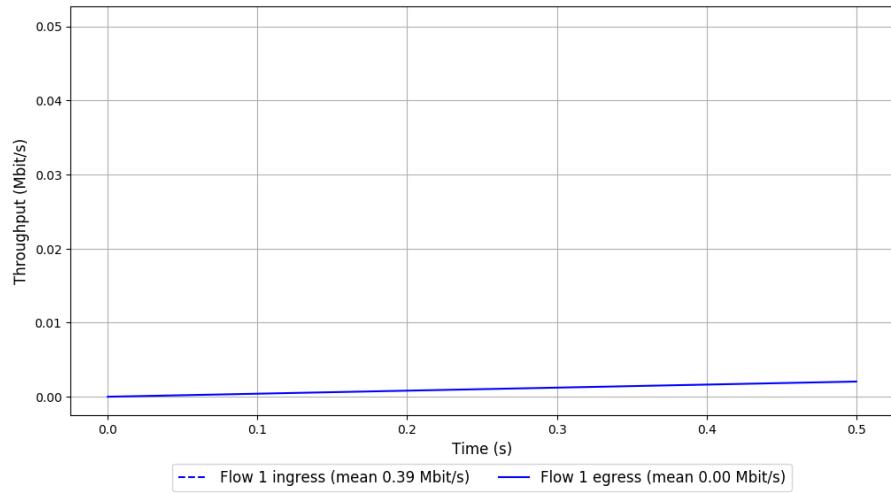
Start at: 2019-07-11 22:55:54

End at: 2019-07-11 22:56:24

Local clock offset: 6.076 ms

Remote clock offset: -2.731 ms

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



Run 2: Statistics of TaoVA-100x

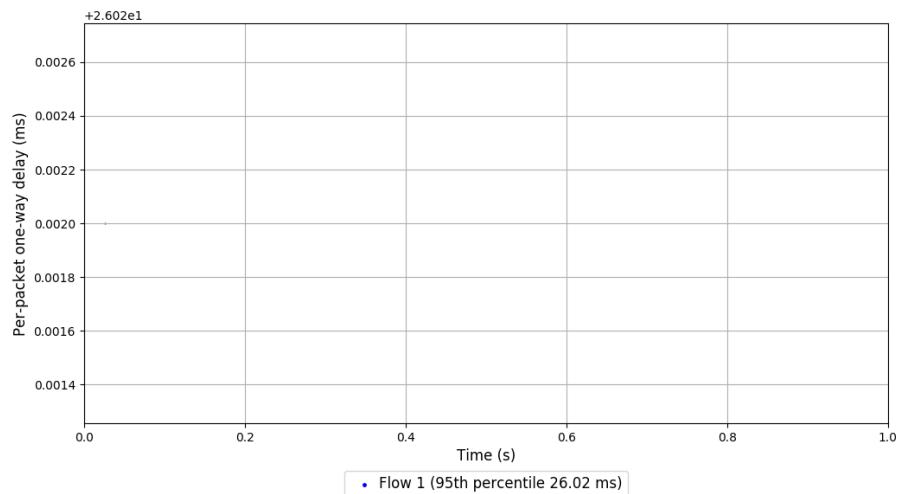
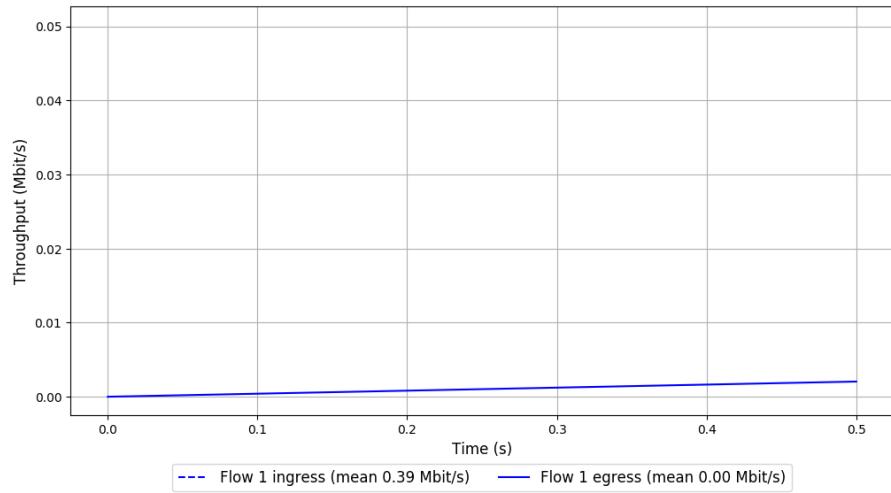
Start at: 2019-07-11 23:27:34

End at: 2019-07-11 23:28:04

Local clock offset: 5.703 ms

Remote clock offset: -2.517 ms

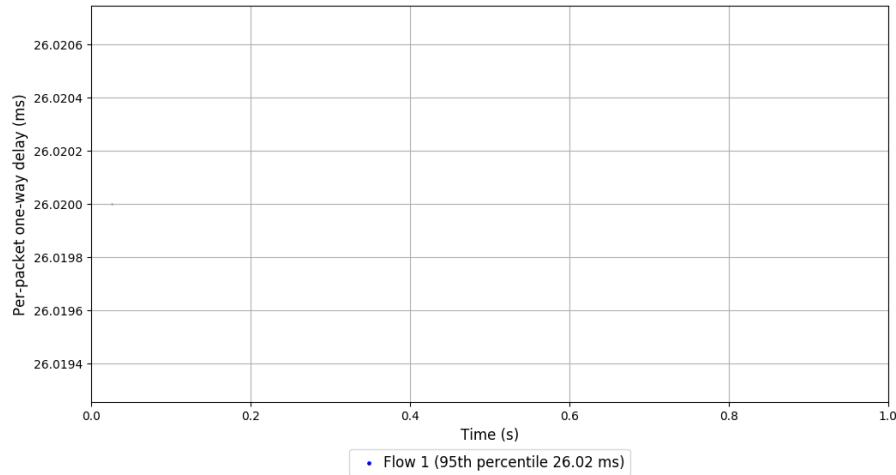
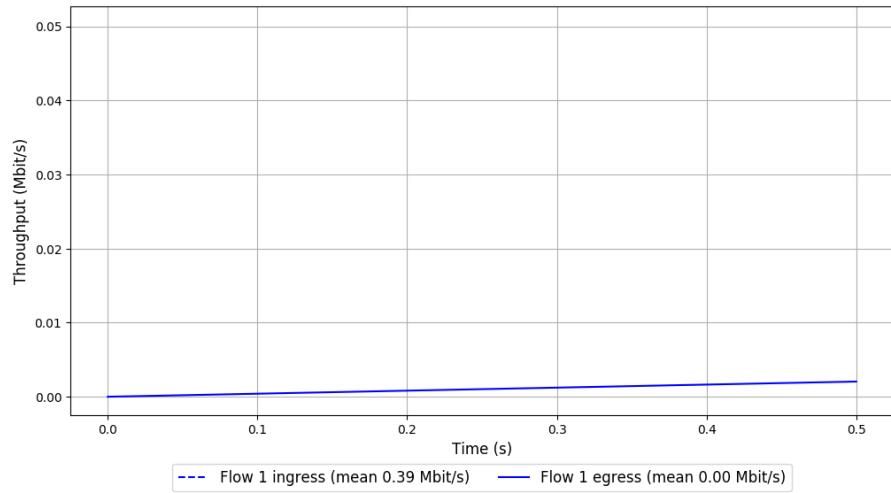
Run 2: Report of TaoVA-100x — Data Link



Run 3: Statistics of TaoVA-100x

Start at: 2019-07-11 23:58:26  
End at: 2019-07-11 23:58:56  
Local clock offset: 5.892 ms  
Remote clock offset: -2.208 ms

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



Run 4: Statistics of TaoVA-100x

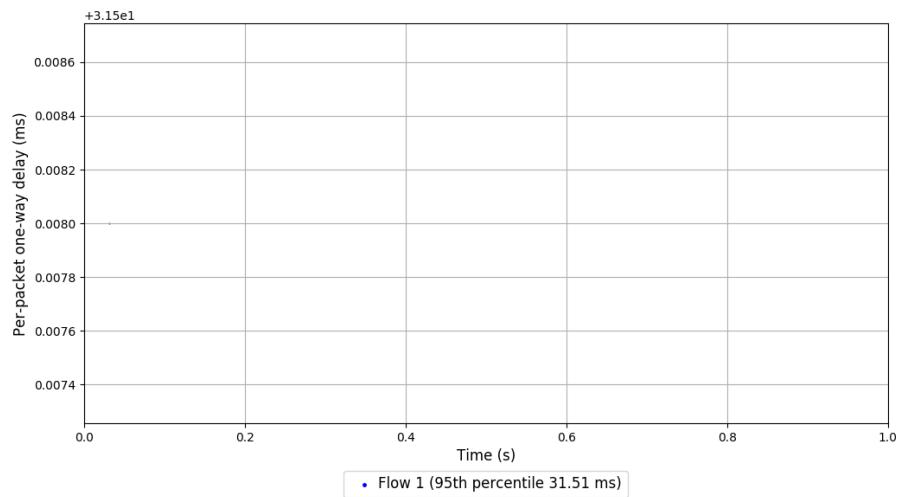
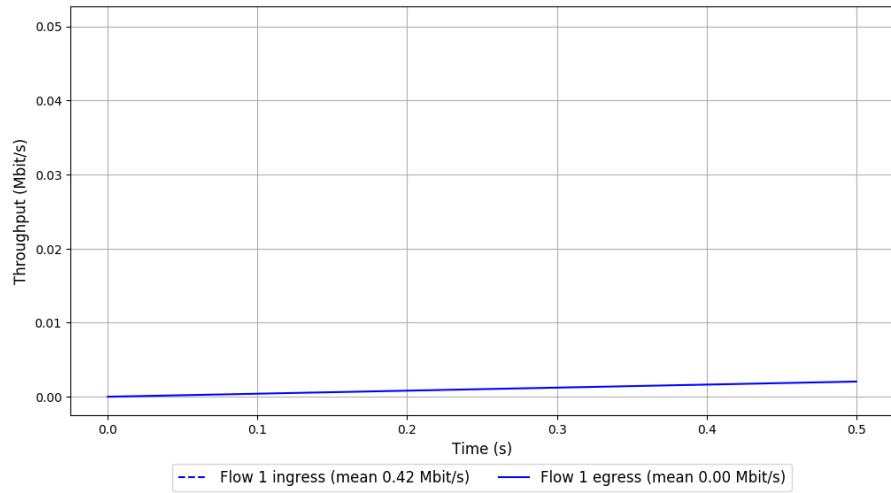
Start at: 2019-07-12 00:32:48

End at: 2019-07-12 00:33:18

Local clock offset: 1.985 ms

Remote clock offset: -2.943 ms

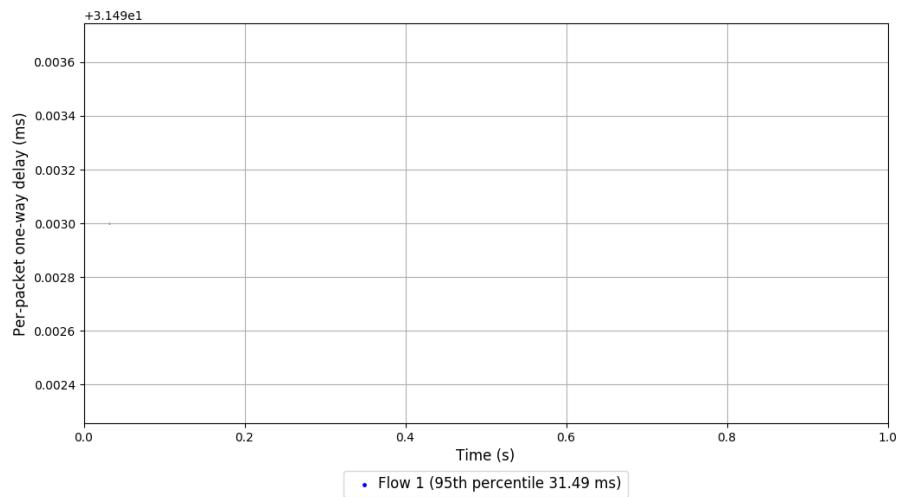
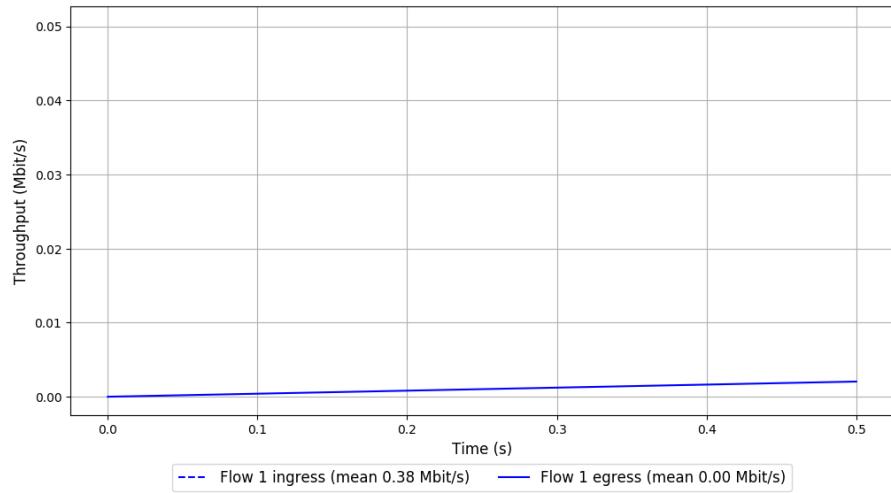
Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: 2019-07-12 01:06:08  
End at: 2019-07-12 01:06:38  
Local clock offset: 0.598 ms  
Remote clock offset: -3.653 ms

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

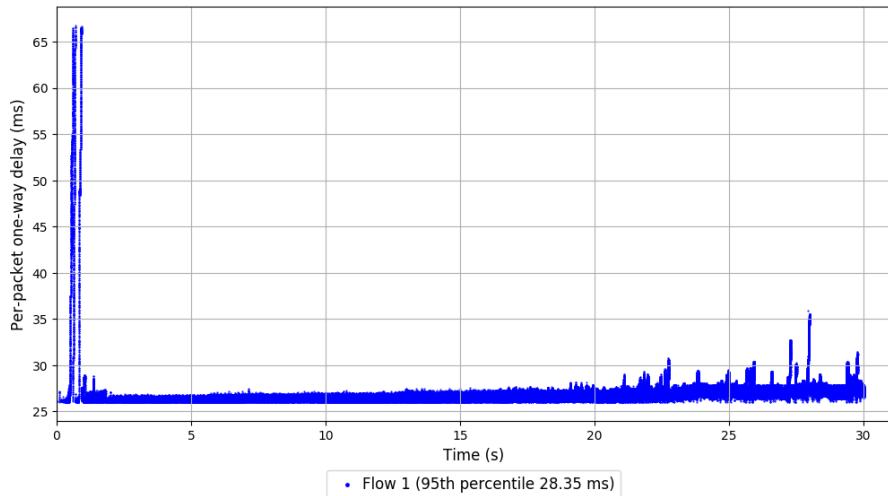
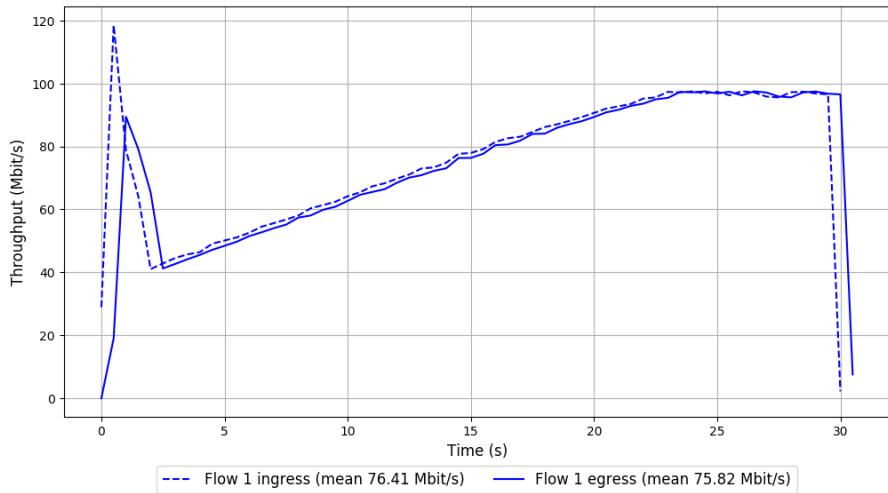


Run 1: Statistics of TCP Vegas

```
Start at: 2019-07-11 22:44:02
End at: 2019-07-11 22:44:32
Local clock offset: 5.752 ms
Remote clock offset: -2.732 ms

# Below is generated by plot.py at 2019-07-12 01:37:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.82 Mbit/s
95th percentile per-packet one-way delay: 28.351 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 75.82 Mbit/s
95th percentile per-packet one-way delay: 28.351 ms
Loss rate: 0.77%
```

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

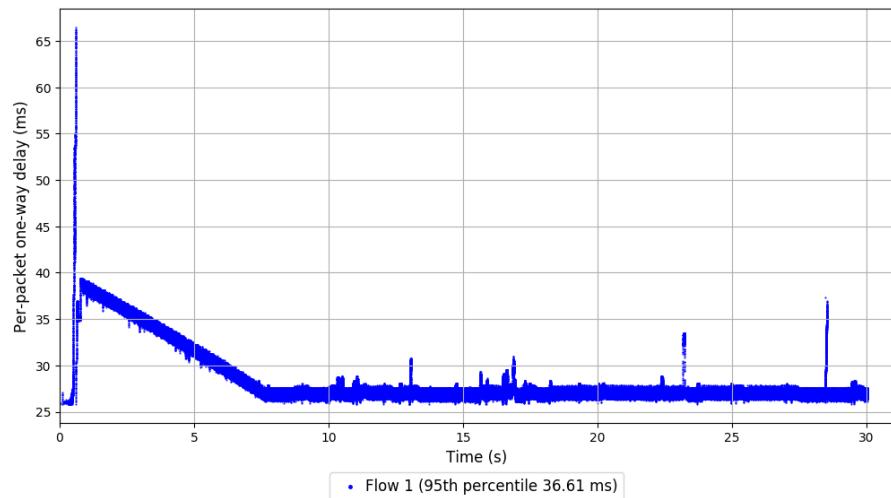
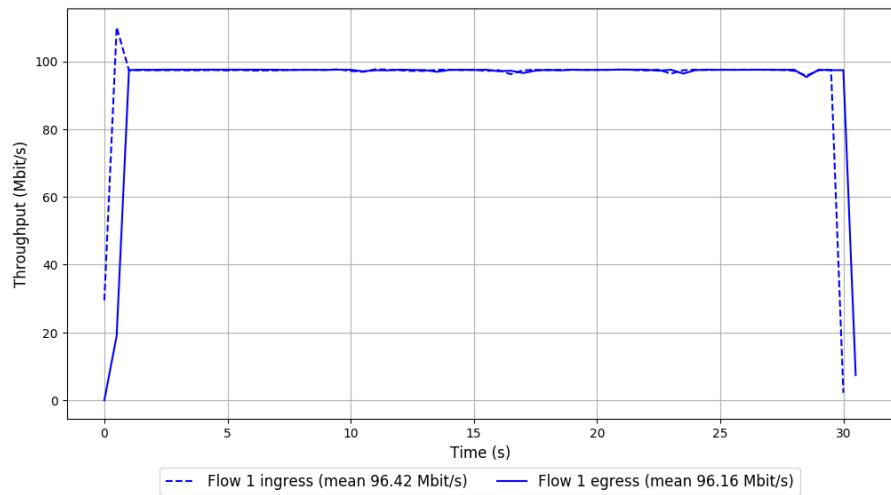


Run 2: Statistics of TCP Vegas

```
Start at: 2019-07-11 23:14:43
End at: 2019-07-11 23:15:13
Local clock offset: 5.719 ms
Remote clock offset: -2.727 ms

# Below is generated by plot.py at 2019-07-12 01:37:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 36.613 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 36.613 ms
Loss rate: 0.27%
```

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

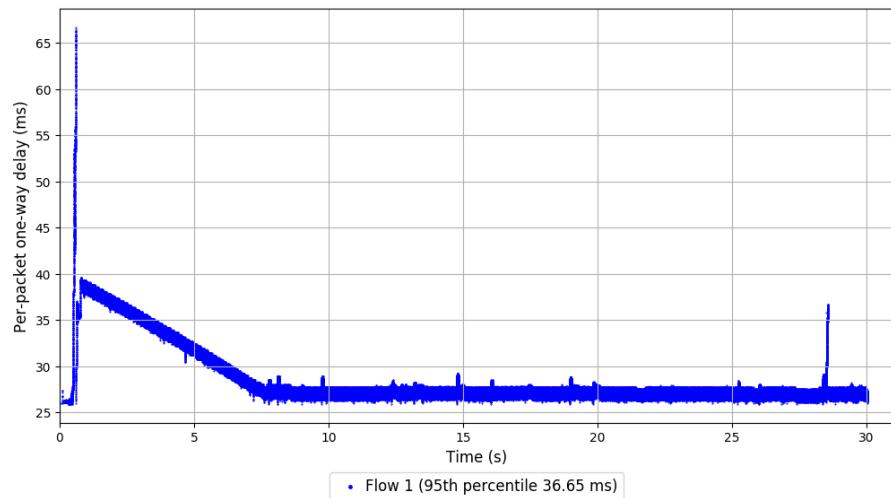
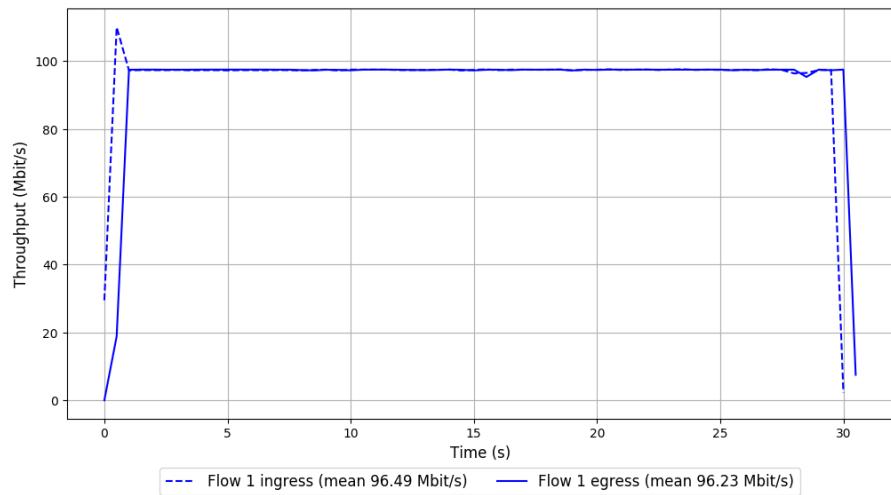


Run 3: Statistics of TCP Vegas

```
Start at: 2019-07-11 23:46:43
End at: 2019-07-11 23:47:13
Local clock offset: 5.774 ms
Remote clock offset: -2.378 ms

# Below is generated by plot.py at 2019-07-12 01:37:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 36.647 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 36.647 ms
Loss rate: 0.27%
```

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

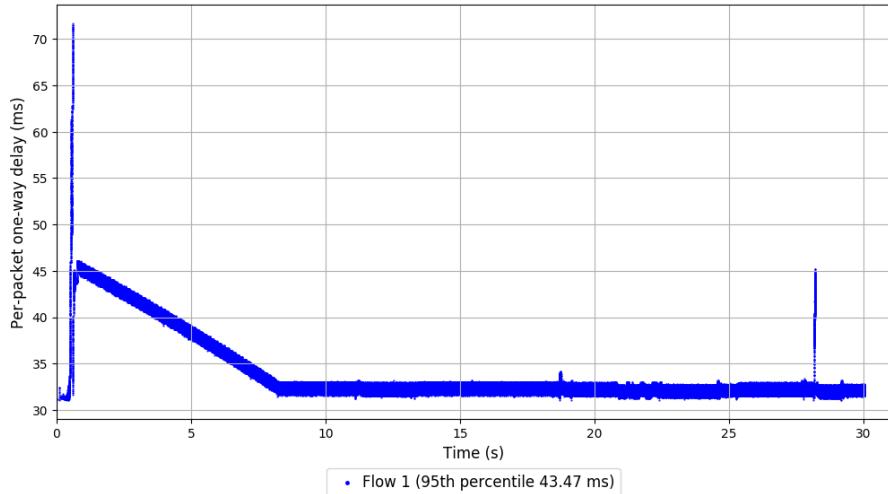
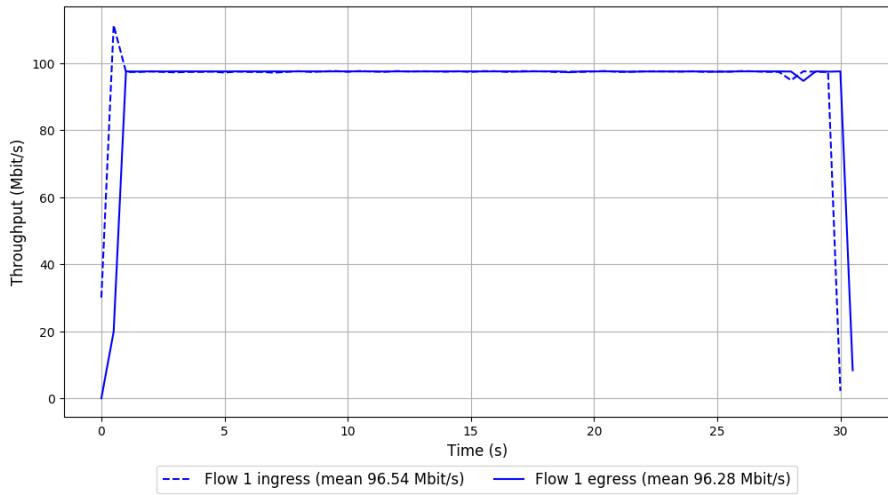


Run 4: Statistics of TCP Vegas

```
Start at: 2019-07-12 00:21:29
End at: 2019-07-12 00:21:59
Local clock offset: 2.091 ms
Remote clock offset: -2.84 ms

# Below is generated by plot.py at 2019-07-12 01:37:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 43.474 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 43.474 ms
Loss rate: 0.26%
```

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

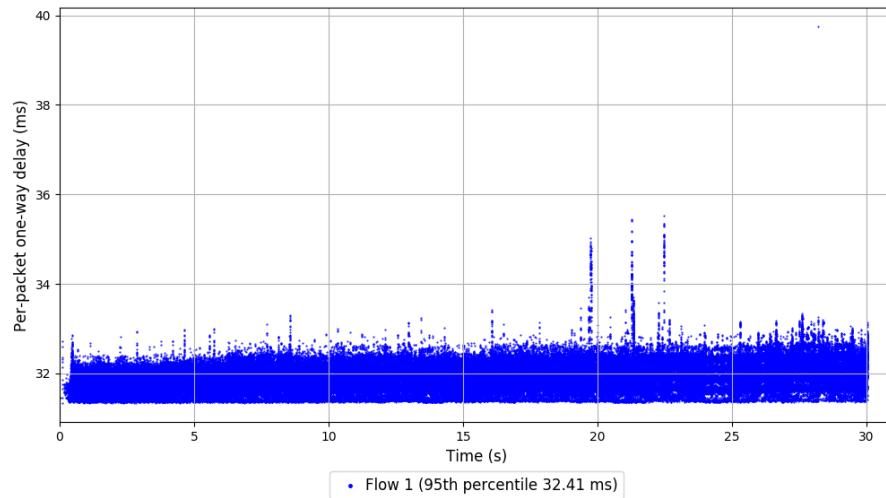
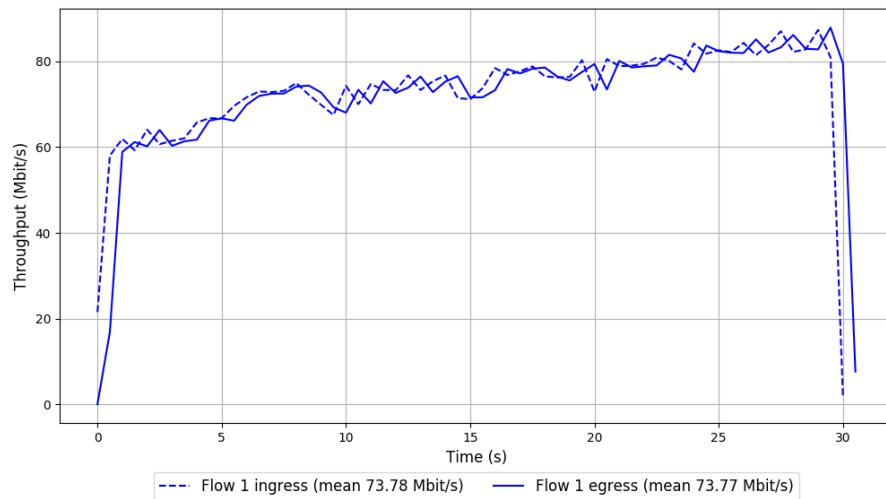


Run 5: Statistics of TCP Vegas

```
Start at: 2019-07-12 00:51:42
End at: 2019-07-12 00:52:12
Local clock offset: 2.23 ms
Remote clock offset: -3.124 ms

# Below is generated by plot.py at 2019-07-12 01:37:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.77 Mbit/s
95th percentile per-packet one-way delay: 32.409 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.77 Mbit/s
95th percentile per-packet one-way delay: 32.409 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

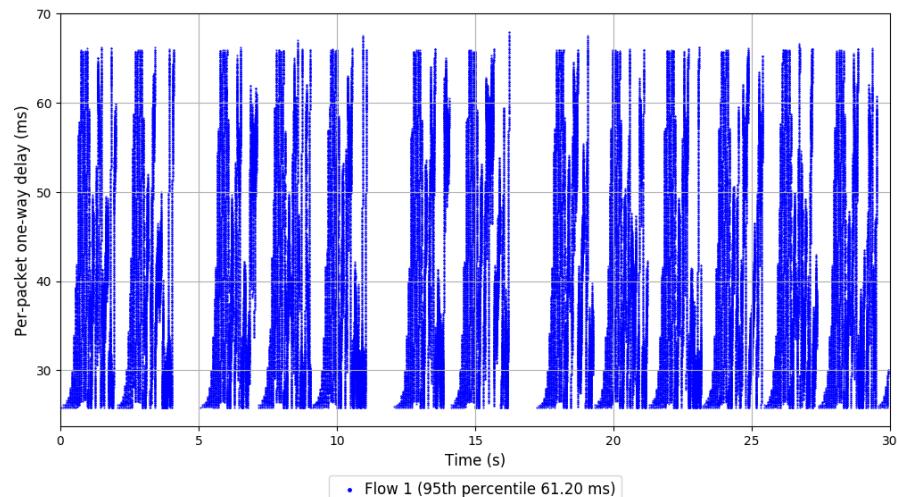
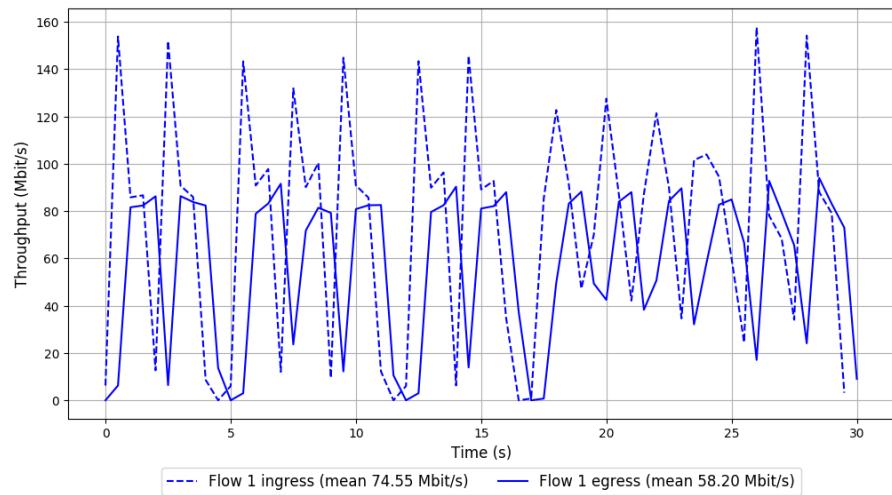


Run 1: Statistics of Verus

```
Start at: 2019-07-11 22:59:28
End at: 2019-07-11 22:59:58
Local clock offset: 6.11 ms
Remote clock offset: -2.547 ms

# Below is generated by plot.py at 2019-07-12 01:37:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.20 Mbit/s
95th percentile per-packet one-way delay: 61.204 ms
Loss rate: 21.92%
-- Flow 1:
Average throughput: 58.20 Mbit/s
95th percentile per-packet one-way delay: 61.204 ms
Loss rate: 21.92%
```

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

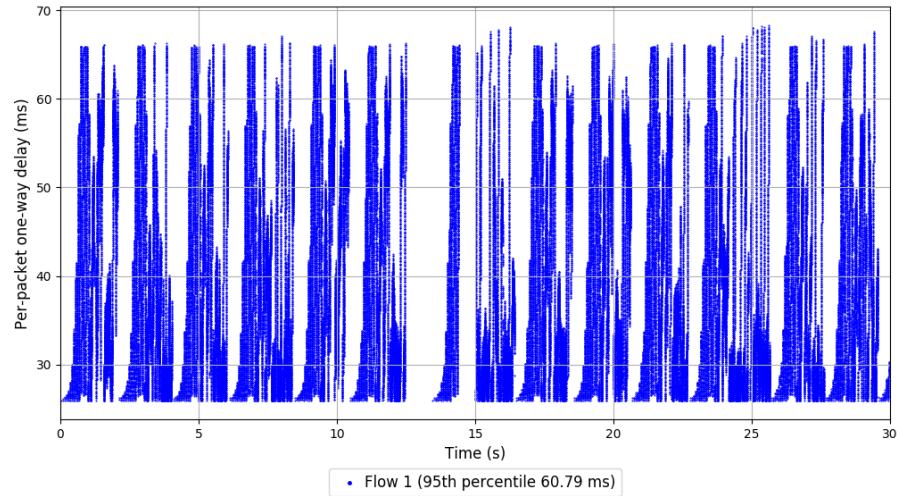
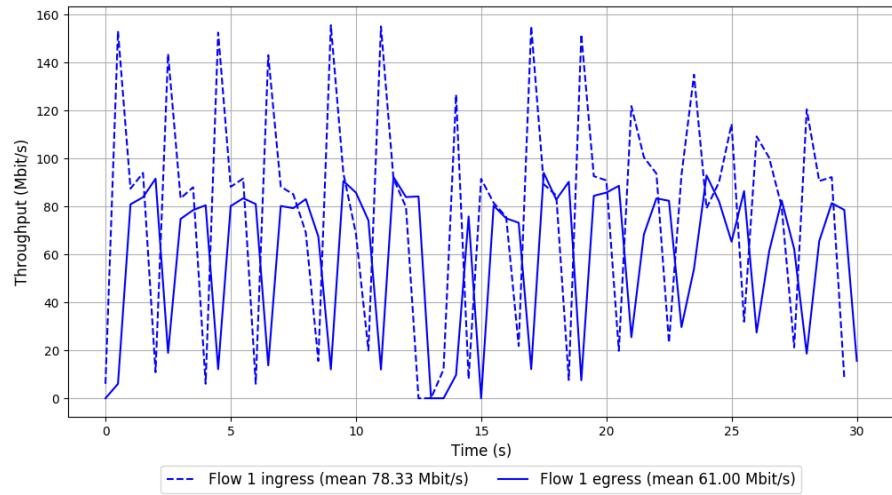


Run 2: Statistics of Verus

```
Start at: 2019-07-11 23:31:36
End at: 2019-07-11 23:32:06
Local clock offset: 5.679 ms
Remote clock offset: -2.542 ms

# Below is generated by plot.py at 2019-07-12 01:37:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.00 Mbit/s
95th percentile per-packet one-way delay: 60.789 ms
Loss rate: 22.11%
-- Flow 1:
Average throughput: 61.00 Mbit/s
95th percentile per-packet one-way delay: 60.789 ms
Loss rate: 22.11%
```

## Run 2: Report of Verus — Data Link

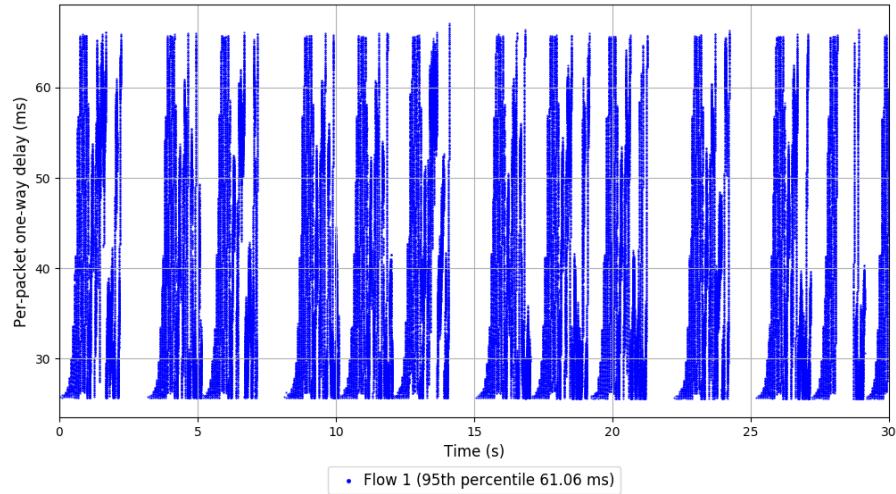
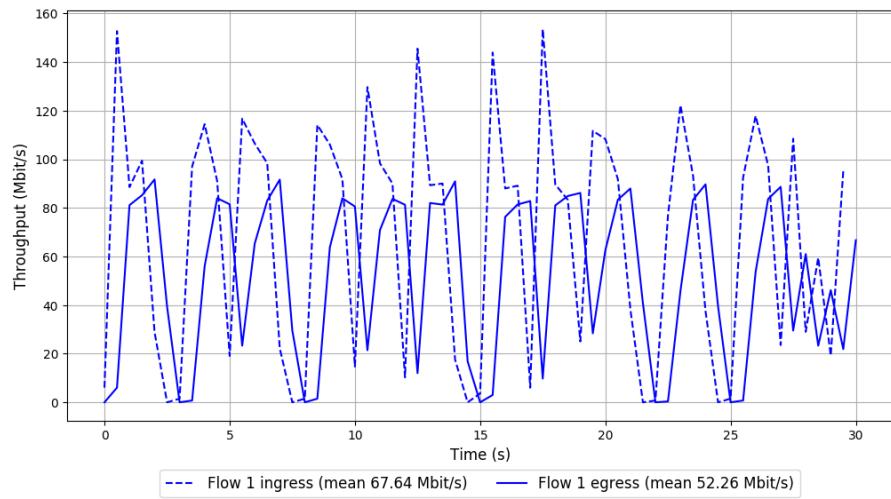


Run 3: Statistics of Verus

```
Start at: 2019-07-12 00:02:01
End at: 2019-07-12 00:02:31
Local clock offset: 4.968 ms
Remote clock offset: -2.378 ms

# Below is generated by plot.py at 2019-07-12 01:37:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.26 Mbit/s
95th percentile per-packet one-way delay: 61.058 ms
Loss rate: 22.65%
-- Flow 1:
Average throughput: 52.26 Mbit/s
95th percentile per-packet one-way delay: 61.058 ms
Loss rate: 22.65%
```

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

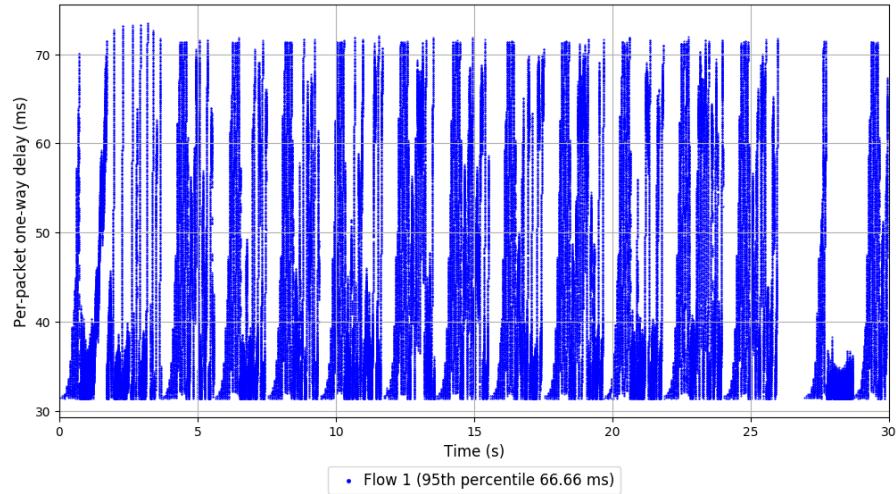
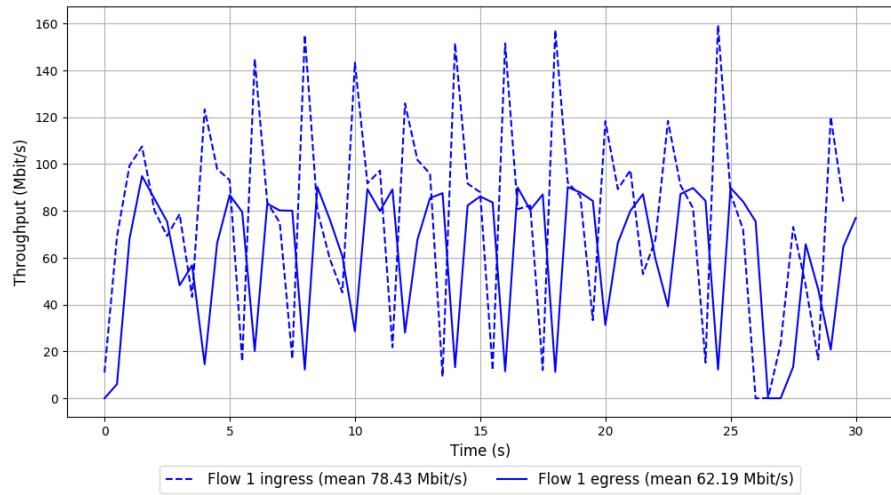


Run 4: Statistics of Verus

```
Start at: 2019-07-12 00:36:21
End at: 2019-07-12 00:36:51
Local clock offset: 2.207 ms
Remote clock offset: -2.941 ms

# Below is generated by plot.py at 2019-07-12 01:38:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.19 Mbit/s
95th percentile per-packet one-way delay: 66.663 ms
Loss rate: 20.62%
-- Flow 1:
Average throughput: 62.19 Mbit/s
95th percentile per-packet one-way delay: 66.663 ms
Loss rate: 20.62%
```

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

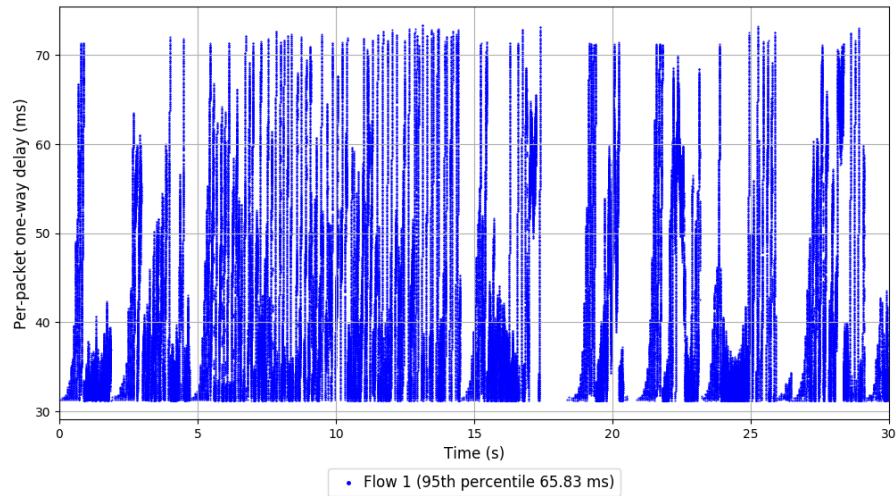
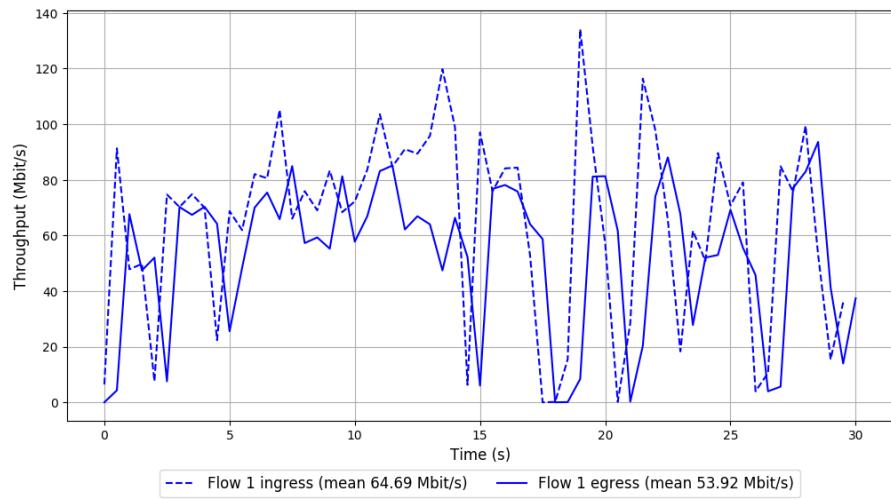


Run 5: Statistics of Verus

```
Start at: 2019-07-12 01:09:36
End at: 2019-07-12 01:10:06
Local clock offset: 0.099 ms
Remote clock offset: -3.862 ms

# Below is generated by plot.py at 2019-07-12 01:38:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.92 Mbit/s
95th percentile per-packet one-way delay: 65.829 ms
Loss rate: 16.64%
-- Flow 1:
Average throughput: 53.92 Mbit/s
95th percentile per-packet one-way delay: 65.829 ms
Loss rate: 16.64%
```

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

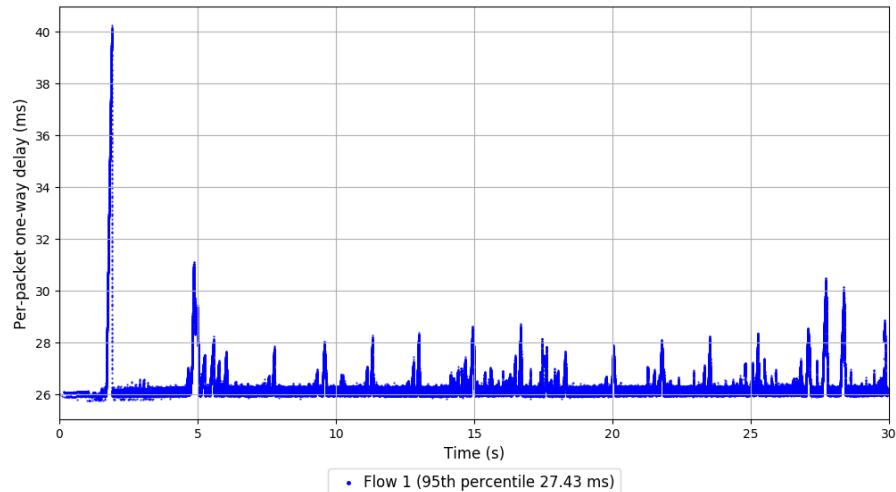
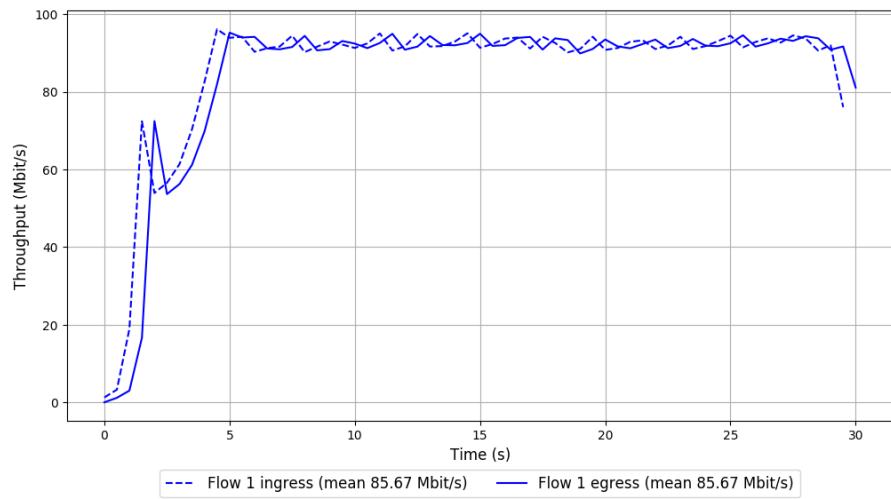


```
Run 1: Statistics of PCC-Vivace

Start at: 2019-07-11 22:50:32
End at: 2019-07-11 22:51:02
Local clock offset: 5.97 ms
Remote clock offset: -2.711 ms

# Below is generated by plot.py at 2019-07-12 01:38:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.67 Mbit/s
95th percentile per-packet one-way delay: 27.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.67 Mbit/s
95th percentile per-packet one-way delay: 27.429 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

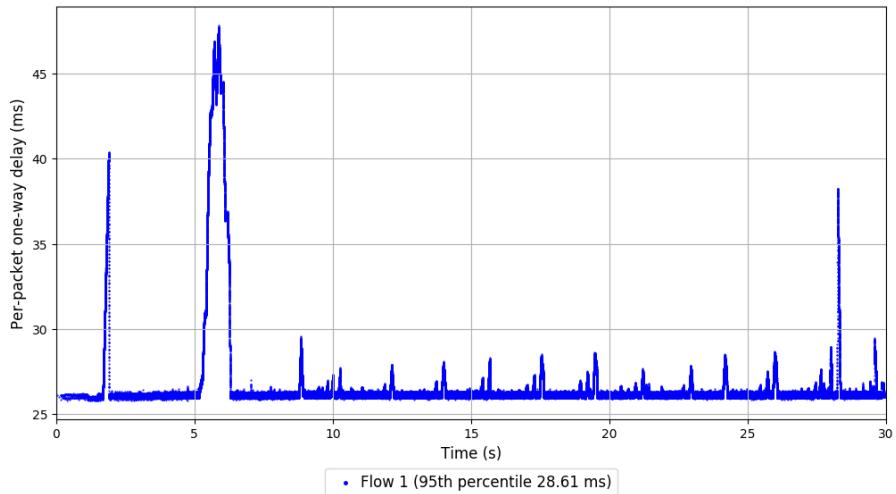
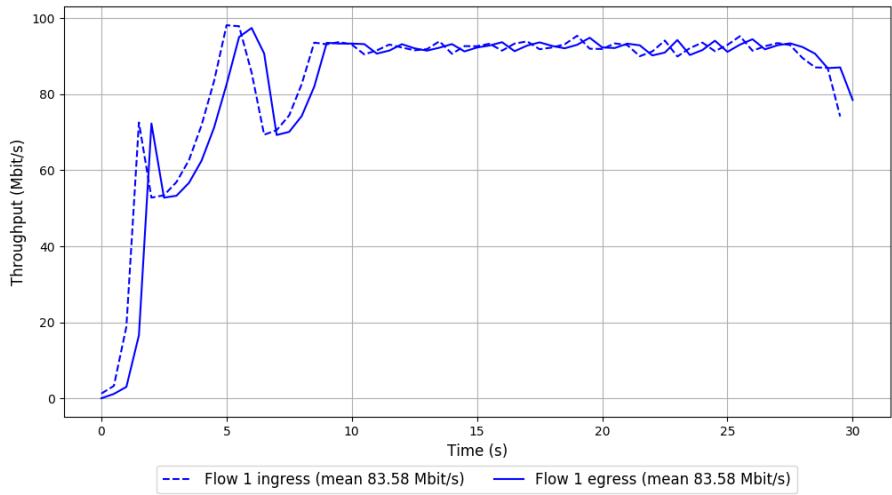


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-07-11 23:21:33
End at: 2019-07-11 23:22:03
Local clock offset: 5.662 ms
Remote clock offset: -2.647 ms

# Below is generated by plot.py at 2019-07-12 01:38:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.58 Mbit/s
95th percentile per-packet one-way delay: 28.610 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.58 Mbit/s
95th percentile per-packet one-way delay: 28.610 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

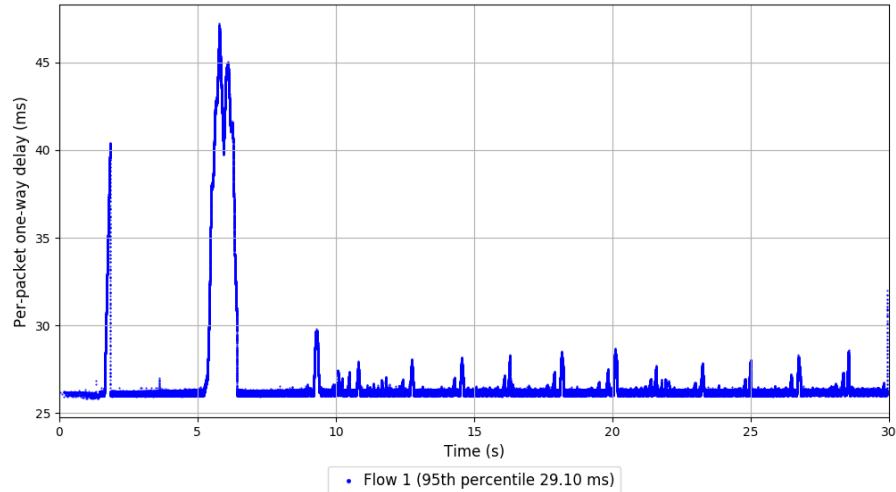
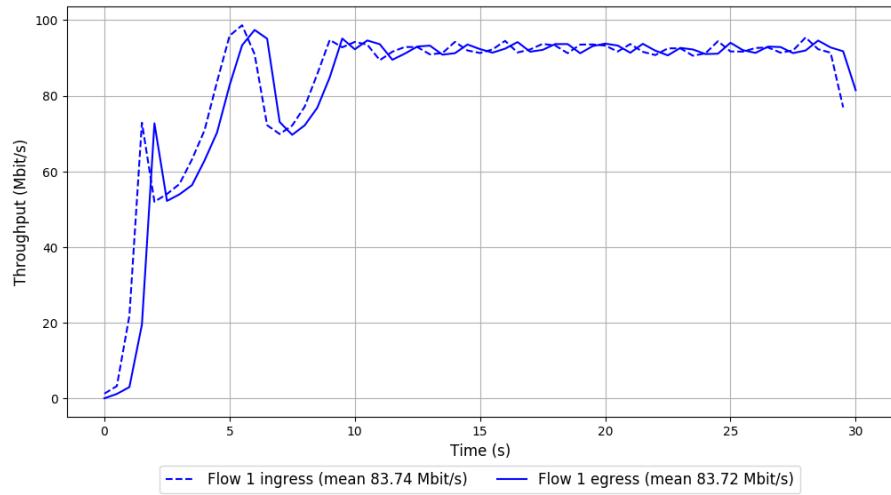


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-07-11 23:53:21
End at: 2019-07-11 23:53:51
Local clock offset: 5.825 ms
Remote clock offset: -2.301 ms

# Below is generated by plot.py at 2019-07-12 01:38:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.72 Mbit/s
95th percentile per-packet one-way delay: 29.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.72 Mbit/s
95th percentile per-packet one-way delay: 29.098 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

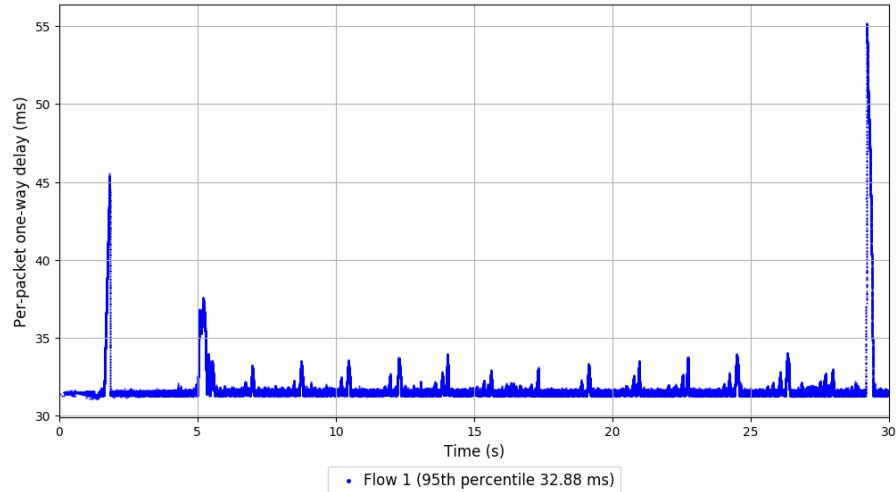
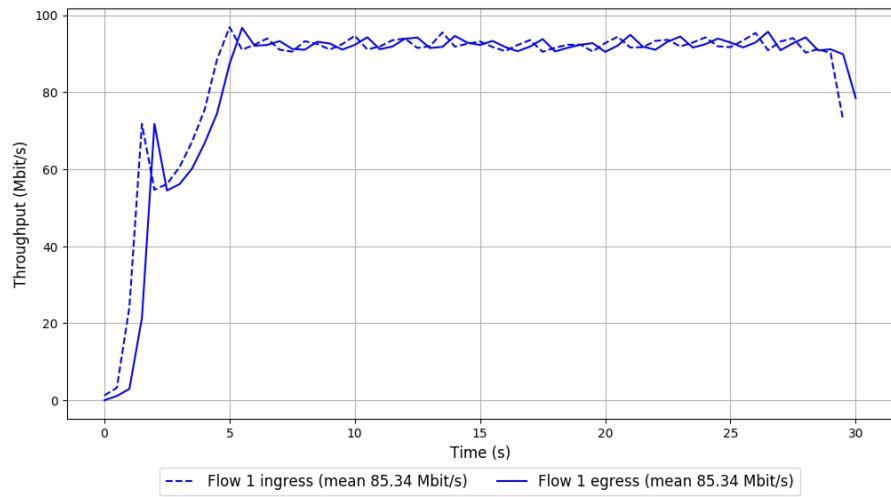


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-07-12 00:27:46
End at: 2019-07-12 00:28:16
Local clock offset: 1.657 ms
Remote clock offset: -2.858 ms

# Below is generated by plot.py at 2019-07-12 01:38:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.34 Mbit/s
95th percentile per-packet one-way delay: 32.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.34 Mbit/s
95th percentile per-packet one-way delay: 32.881 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

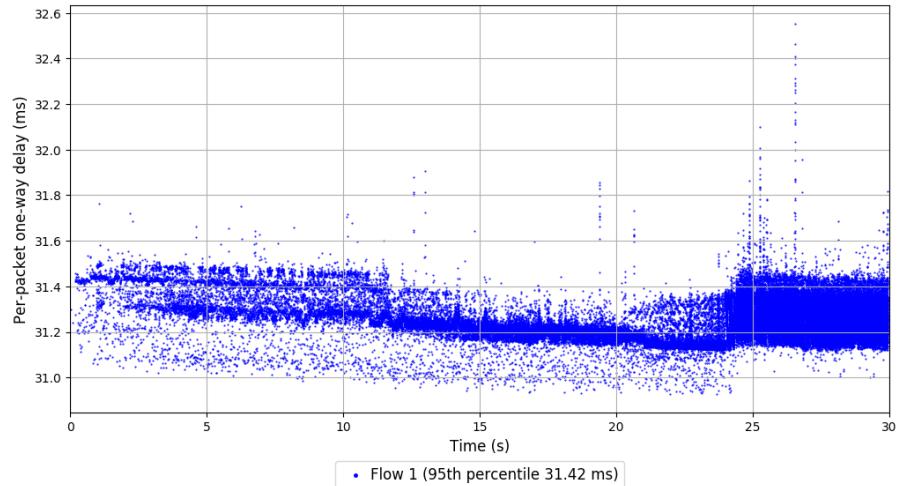
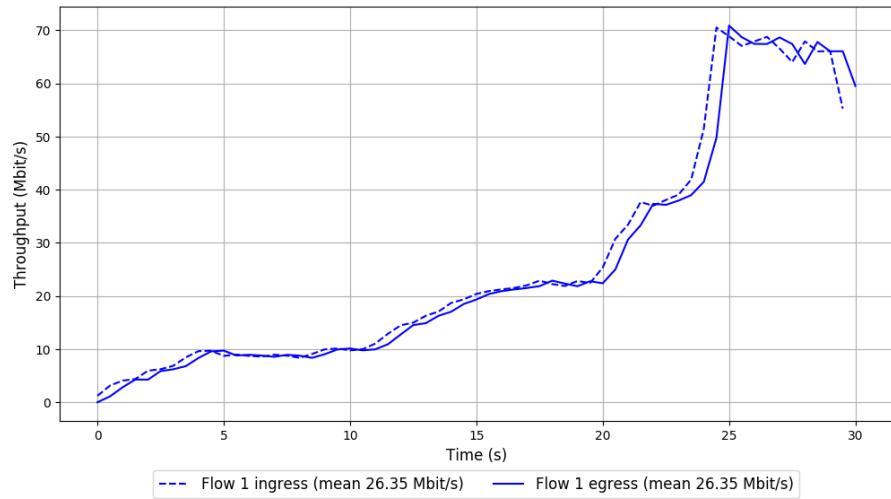


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-07-12 00:59:28
End at: 2019-07-12 00:59:58
Local clock offset: 1.999 ms
Remote clock offset: -3.319 ms

# Below is generated by plot.py at 2019-07-12 01:38:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.35 Mbit/s
95th percentile per-packet one-way delay: 31.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.35 Mbit/s
95th percentile per-packet one-way delay: 31.421 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

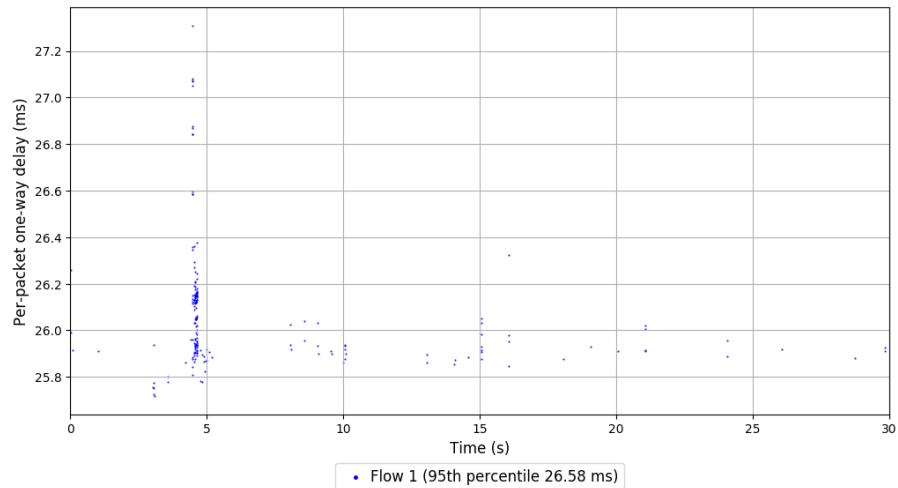
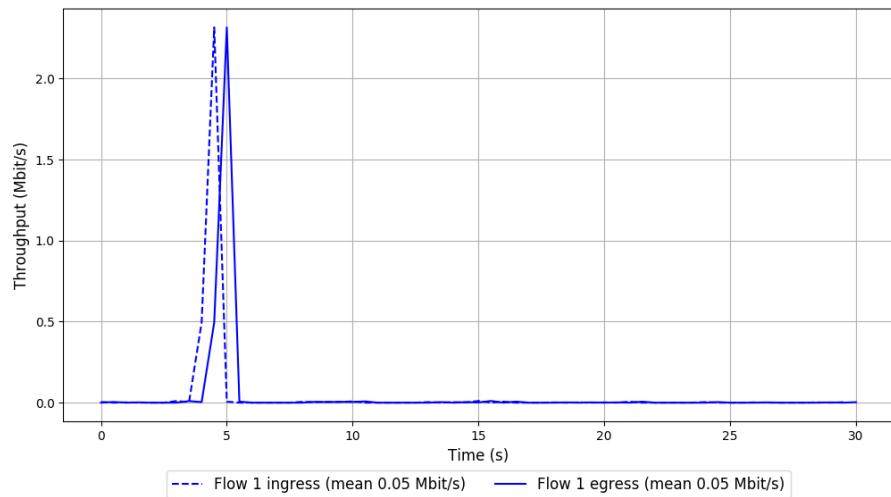


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2019-07-11 23:01:57
End at: 2019-07-11 23:02:27
Local clock offset: 5.983 ms
Remote clock offset: -2.639 ms

# Below is generated by plot.py at 2019-07-12 01:38:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 26.584 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 26.584 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

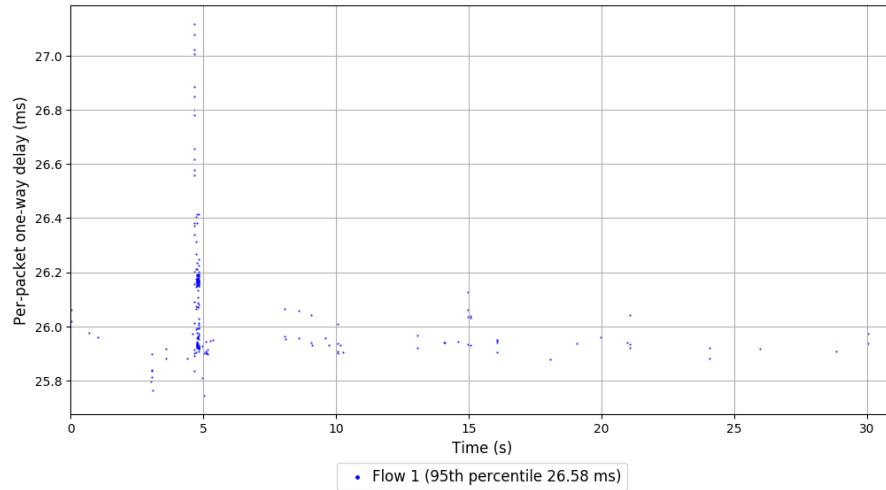
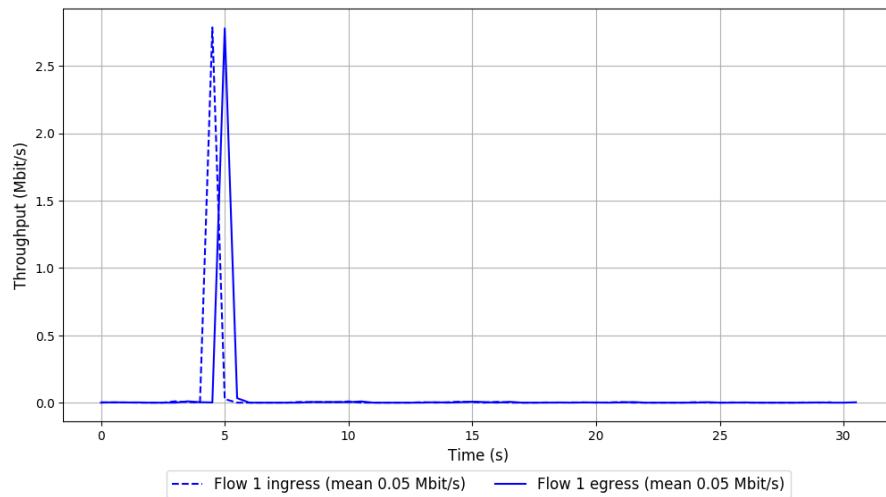


Run 2: Statistics of WebRTC media

```
Start at: 2019-07-11 23:34:14
End at: 2019-07-11 23:34:44
Local clock offset: 5.705 ms
Remote clock offset: -2.475 ms

# Below is generated by plot.py at 2019-07-12 01:38:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 26.578 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 26.578 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

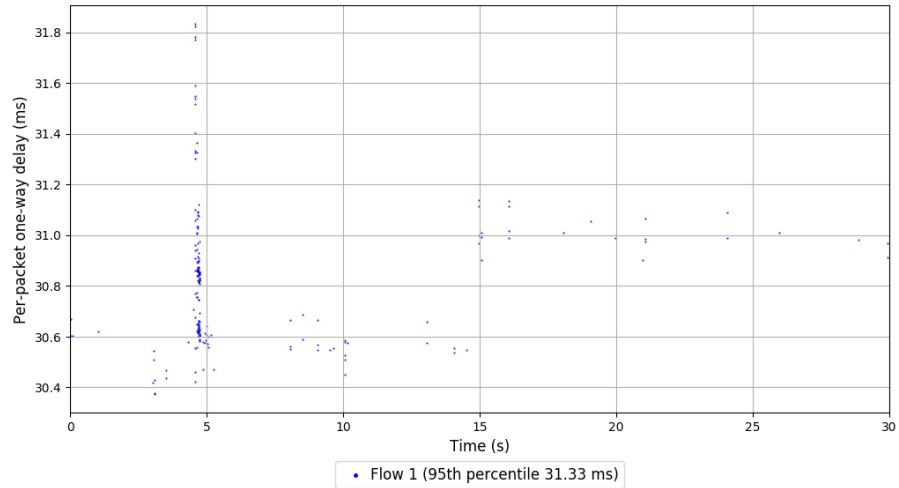
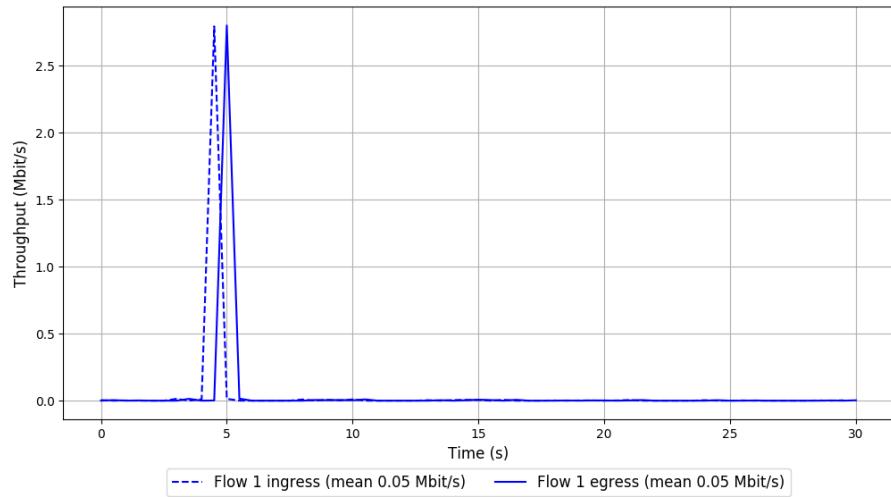


Run 3: Statistics of WebRTC media

```
Start at: 2019-07-12 00:09:02
End at: 2019-07-12 00:09:32
Local clock offset: 3.426 ms
Remote clock offset: -2.586 ms

# Below is generated by plot.py at 2019-07-12 01:38:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.332 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

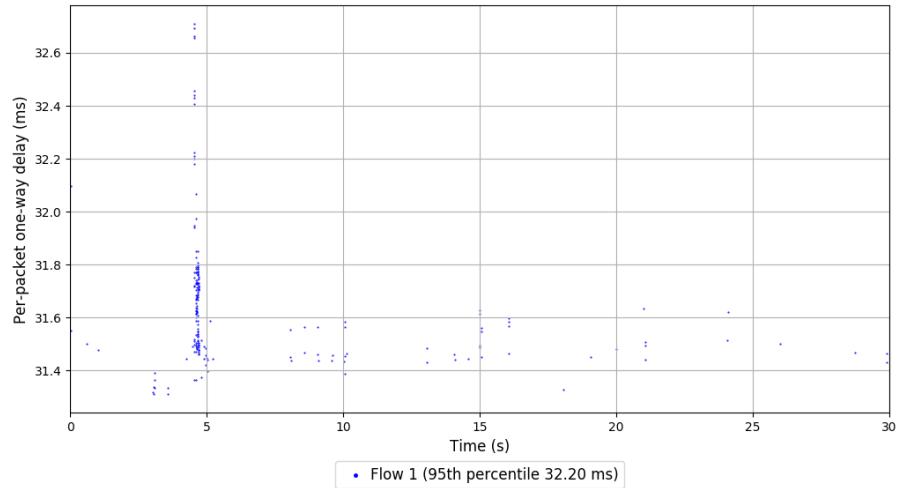
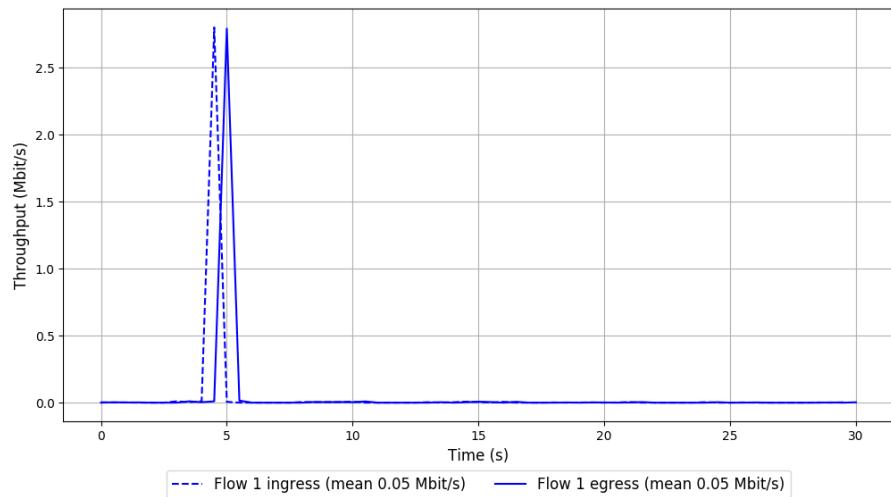


Run 4: Statistics of WebRTC media

```
Start at: 2019-07-12 00:39:11
End at: 2019-07-12 00:39:41
Local clock offset: 2.283 ms
Remote clock offset: -2.975 ms

# Below is generated by plot.py at 2019-07-12 01:38:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.200 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.200 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-07-12 01:13:28
End at: 2019-07-12 01:13:58
Local clock offset: -0.343 ms
Remote clock offset: -3.922 ms

# Below is generated by plot.py at 2019-07-12 01:38:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.159 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.159 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

