

## Pantheon Report

Generated at 2019-05-30 07:54:08 (UTC).  
Data path: Colombia on p4p1 (*remote*) → AWS Brazil 2 on ens5 (*local*).  
Repeated the test of 21 congestion control schemes 5 times.  
Each test lasted for 30 seconds running 1 flow.  
NTP offsets were measured against gps.ntp.br and have been applied to correct the timestamps in logs.

System info:

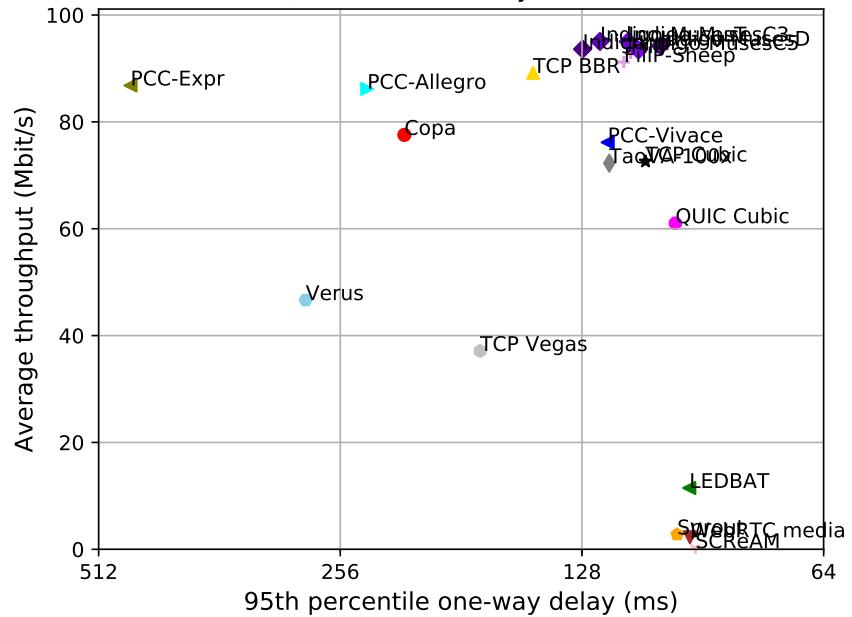
```
Linux 4.15.0-1035-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

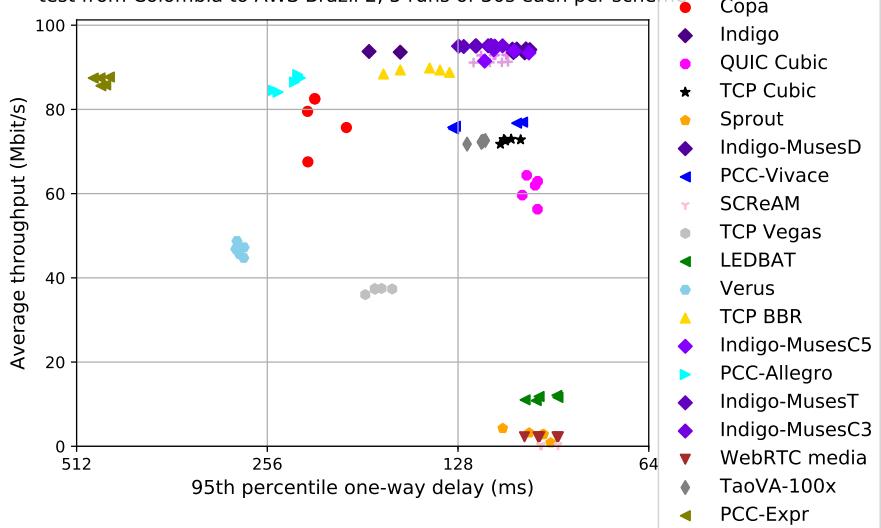
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



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



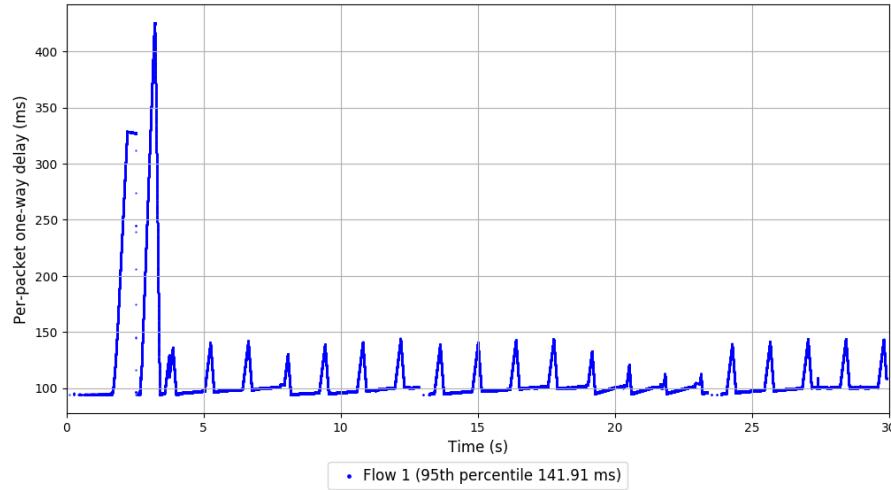
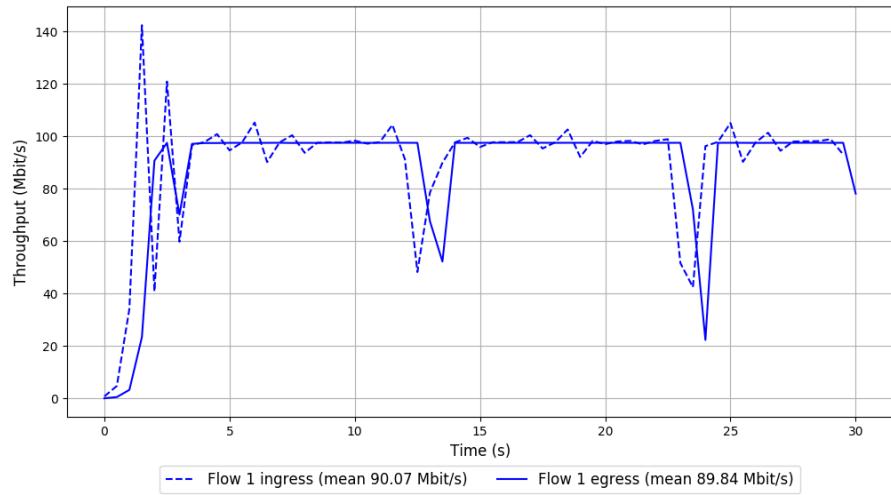
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	89.16	147.26	1.05
Copa	5	77.57	213.00	0.79
TCP Cubic	5	72.59	106.67	0.64
FillP	5	92.88	111.29	0.63
FillP-Sheep	5	91.19	113.50	0.65
Indigo	5	93.62	127.77	1.23
Indigo-MusesC3	5	95.05	112.09	6.16
Indigo-MusesC5	5	93.47	108.87	3.83
Indigo-MusesD	5	94.24	102.17	1.22
Indigo-MusesT	5	95.05	121.56	8.25
LEDBAT	5	11.48	94.09	1.17
PCC-Allegro	5	86.17	236.94	0.75
PCC-Expr	5	86.81	467.25	1.69
QUIC Cubic	5	61.04	97.91	0.88
SCReAM	5	0.22	92.45	0.56
Sprout	5	2.79	97.42	0.46
TaoVA-100x	5	72.27	118.37	0.61
TCP Vegas	5	37.12	171.45	0.68
Verus	5	46.64	282.72	1.04
PCC-Vivace	5	76.17	118.91	0.76
WebRTC media	5	2.25	93.91	0.33

Run 1: Statistics of TCP BBR

```
Start at: 2019-05-30 05:42:47
End at: 2019-05-30 05:43:17
Local clock offset: -5.22 ms
Remote clock offset: 10.513 ms

# Below is generated by plot.py at 2019-05-30 07:43:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.84 Mbit/s
95th percentile per-packet one-way delay: 141.913 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 89.84 Mbit/s
95th percentile per-packet one-way delay: 141.913 ms
Loss rate: 0.83%
```

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

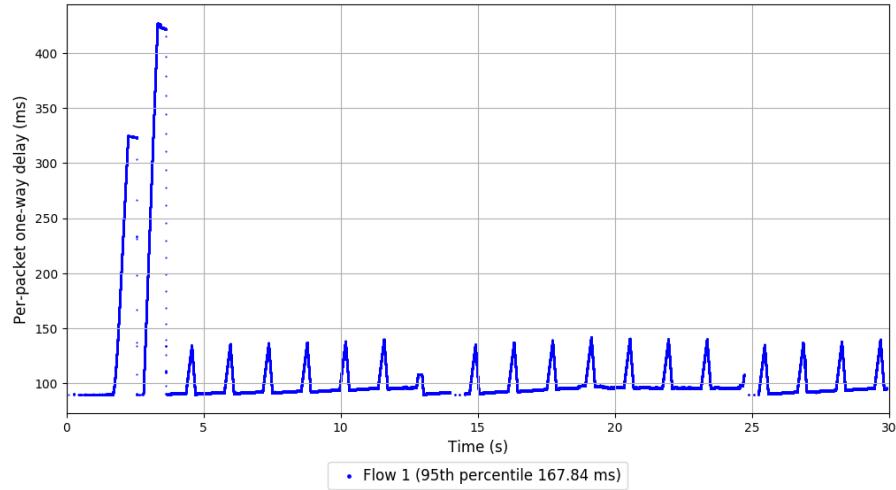
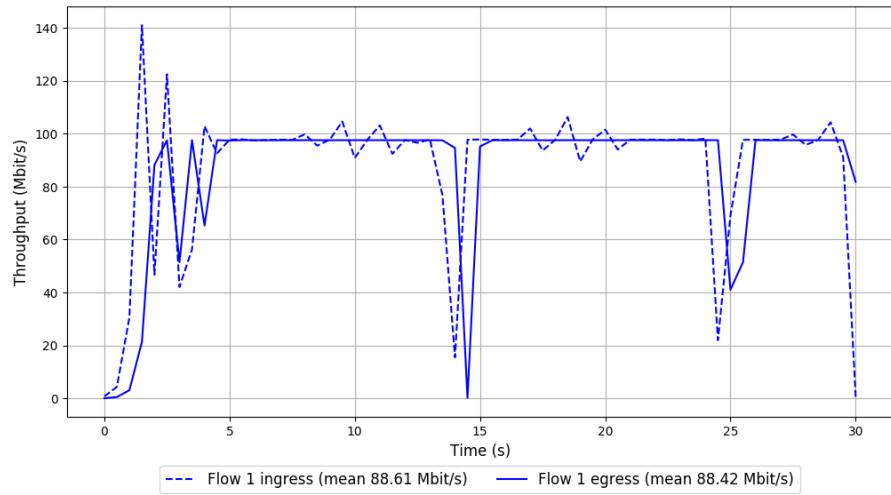


Run 2: Statistics of TCP BBR

```
Start at: 2019-05-30 06:07:43
End at: 2019-05-30 06:08:13
Local clock offset: -8.632 ms
Remote clock offset: 1.341 ms

# Below is generated by plot.py at 2019-05-30 07:43:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.42 Mbit/s
95th percentile per-packet one-way delay: 167.836 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 88.42 Mbit/s
95th percentile per-packet one-way delay: 167.836 ms
Loss rate: 0.79%
```

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

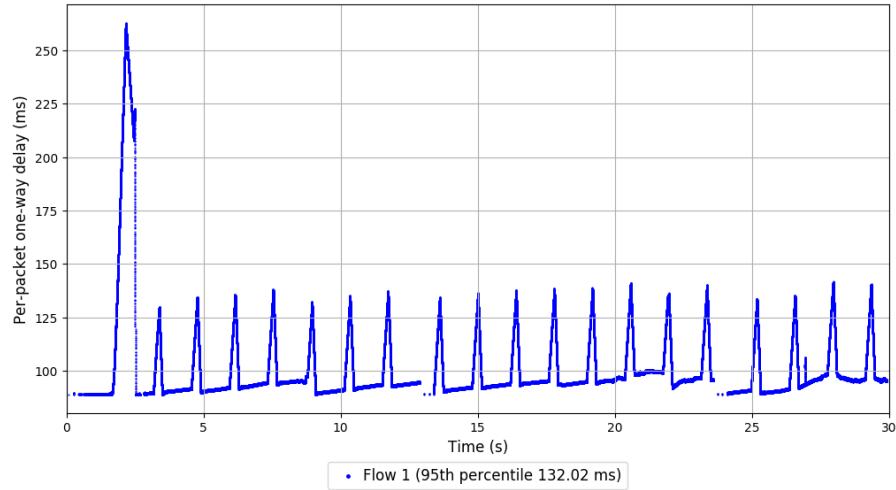
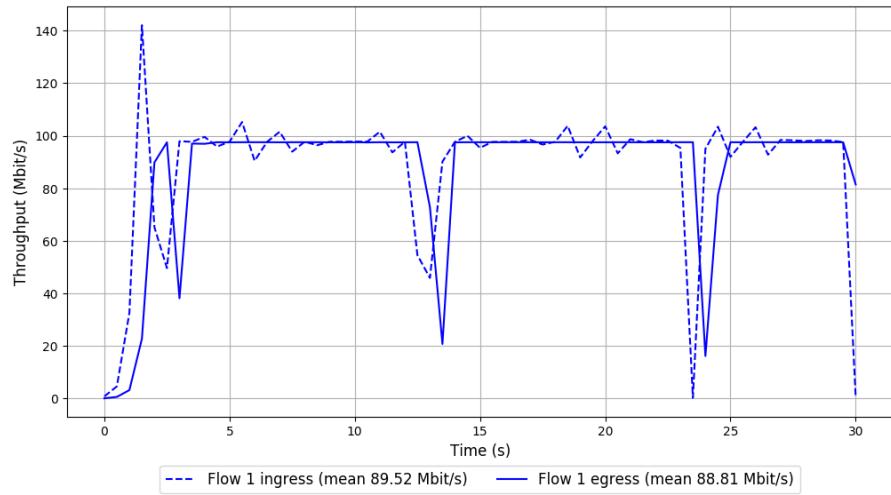


Run 3: Statistics of TCP BBR

```
Start at: 2019-05-30 06:32:39
End at: 2019-05-30 06:33:09
Local clock offset: -7.037 ms
Remote clock offset: 5.022 ms

# Below is generated by plot.py at 2019-05-30 07:43:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.81 Mbit/s
95th percentile per-packet one-way delay: 132.018 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 88.81 Mbit/s
95th percentile per-packet one-way delay: 132.018 ms
Loss rate: 1.37%
```

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

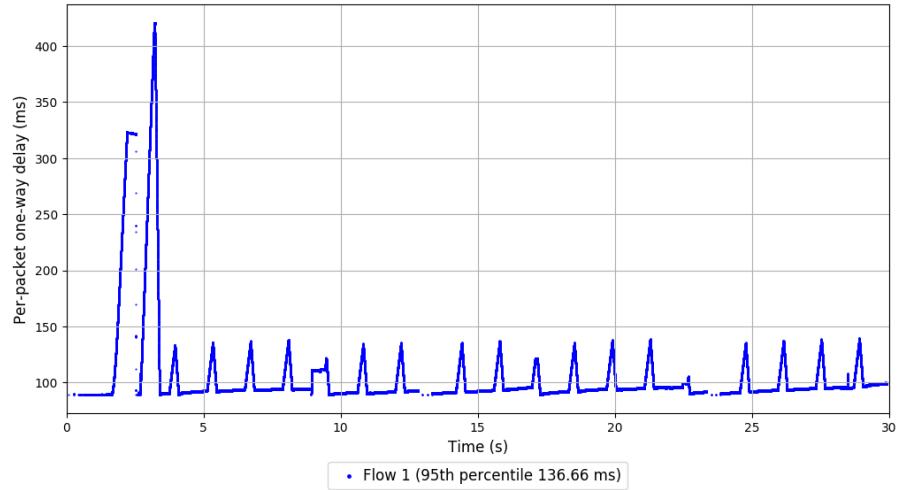
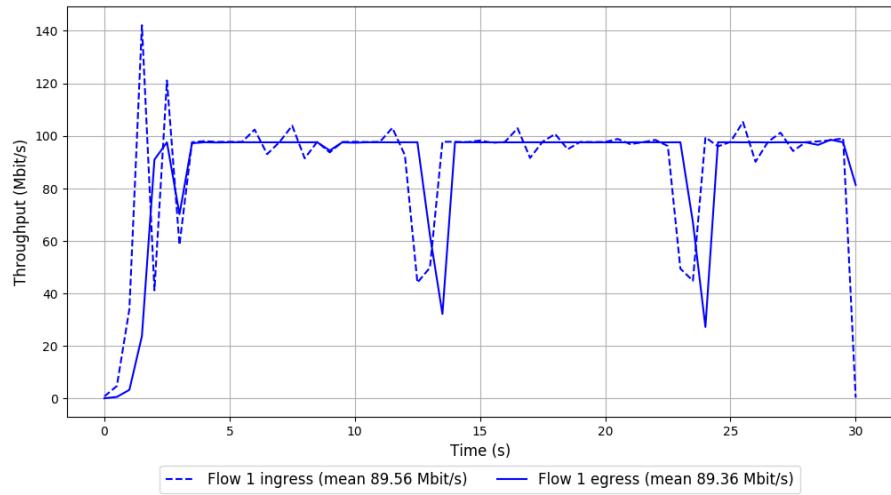


Run 4: Statistics of TCP BBR

```
Start at: 2019-05-30 06:57:33
End at: 2019-05-30 06:58:03
Local clock offset: -8.09 ms
Remote clock offset: 5.932 ms

# Below is generated by plot.py at 2019-05-30 07:43:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.36 Mbit/s
95th percentile per-packet one-way delay: 136.657 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 89.36 Mbit/s
95th percentile per-packet one-way delay: 136.657 ms
Loss rate: 0.80%
```

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

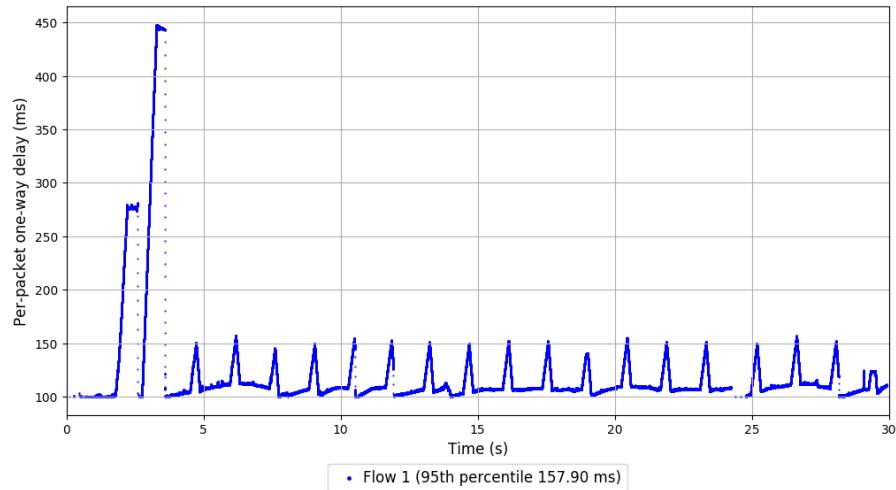
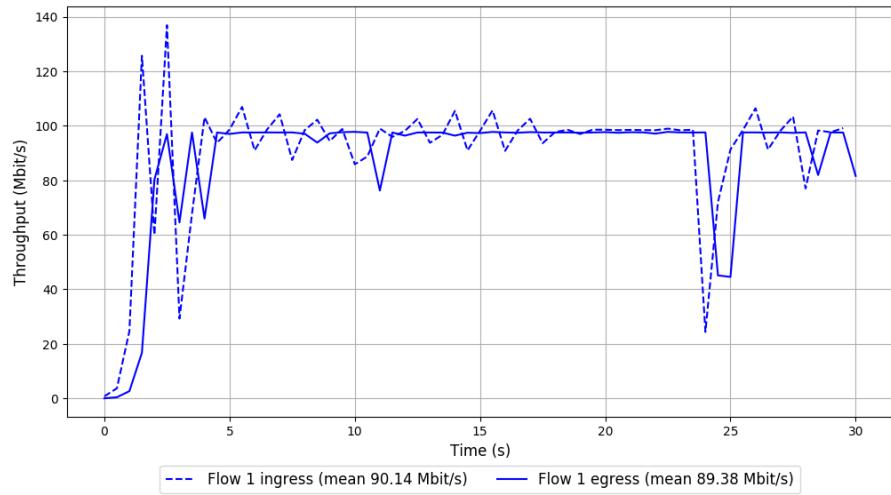


Run 5: Statistics of TCP BBR

```
Start at: 2019-05-30 07:22:28
End at: 2019-05-30 07:22:59
Local clock offset: -6.838 ms
Remote clock offset: 1.594 ms

# Below is generated by plot.py at 2019-05-30 07:43:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.38 Mbit/s
95th percentile per-packet one-way delay: 157.898 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 89.38 Mbit/s
95th percentile per-packet one-way delay: 157.898 ms
Loss rate: 1.44%
```

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

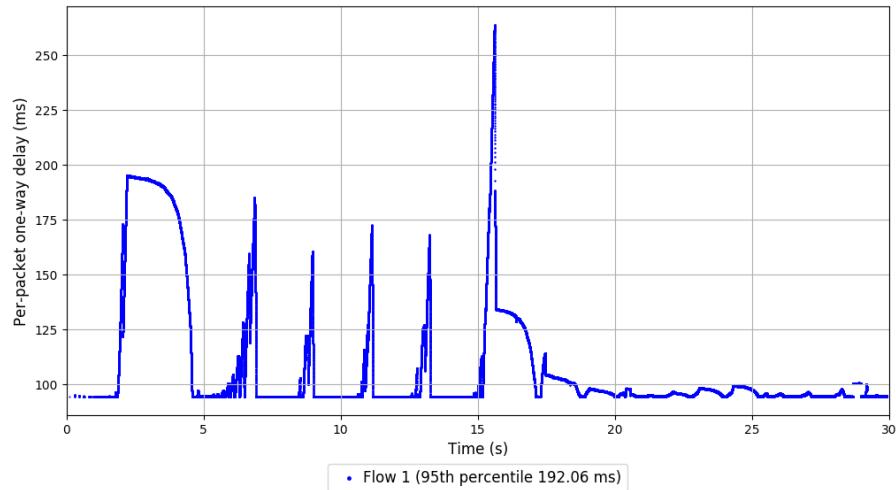
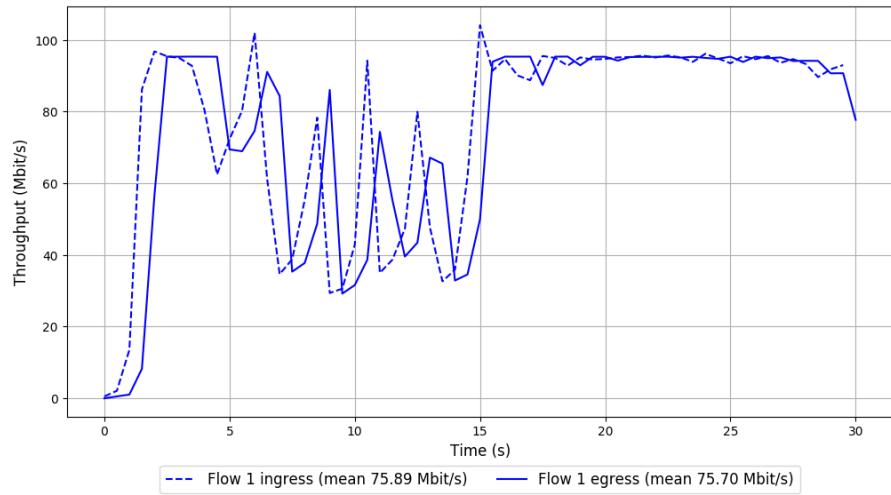


Run 1: Statistics of Copa

```
Start at: 2019-05-30 05:58:11
End at: 2019-05-30 05:58:41
Local clock offset: -8.576 ms
Remote clock offset: -0.847 ms

# Below is generated by plot.py at 2019-05-30 07:44:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.70 Mbit/s
95th percentile per-packet one-way delay: 192.057 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 75.70 Mbit/s
95th percentile per-packet one-way delay: 192.057 ms
Loss rate: 0.83%
```

## Run 1: Report of Copa — Data Link

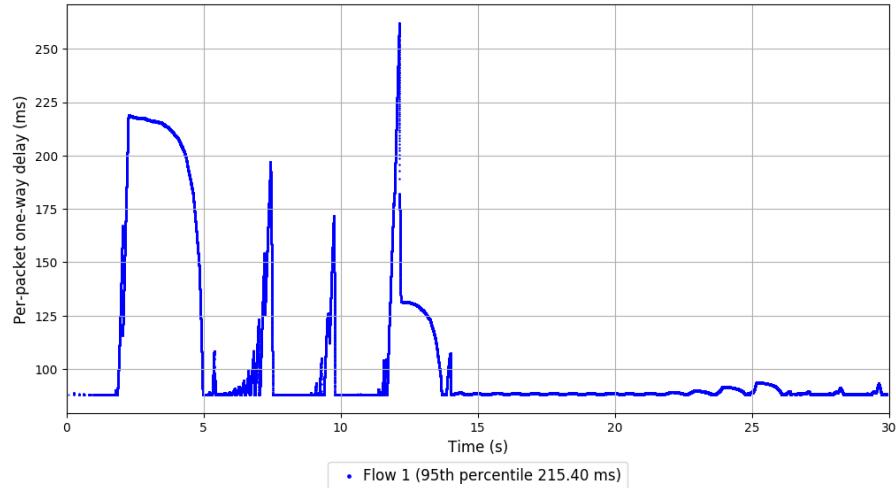
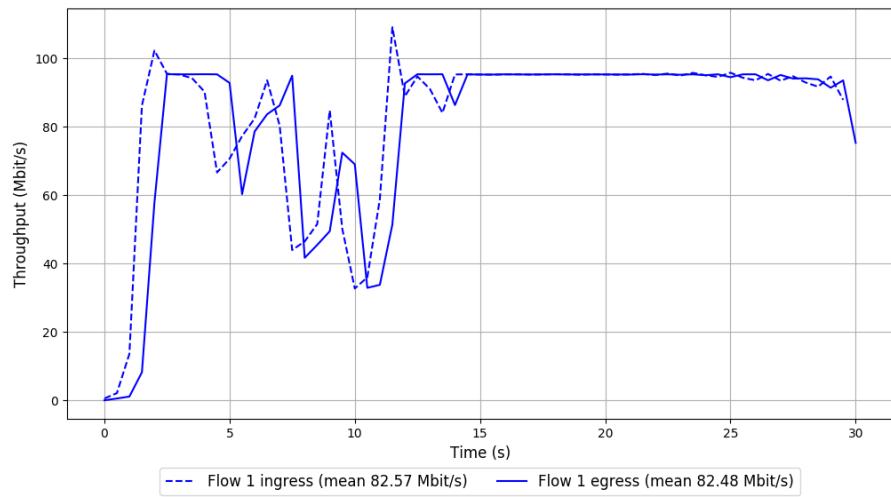


Run 2: Statistics of Copa

```
Start at: 2019-05-30 06:23:07
End at: 2019-05-30 06:23:37
Local clock offset: -7.363 ms
Remote clock offset: 5.008 ms

# Below is generated by plot.py at 2019-05-30 07:44:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.48 Mbit/s
95th percentile per-packet one-way delay: 215.398 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 82.48 Mbit/s
95th percentile per-packet one-way delay: 215.398 ms
Loss rate: 0.69%
```

## Run 2: Report of Copa — Data Link

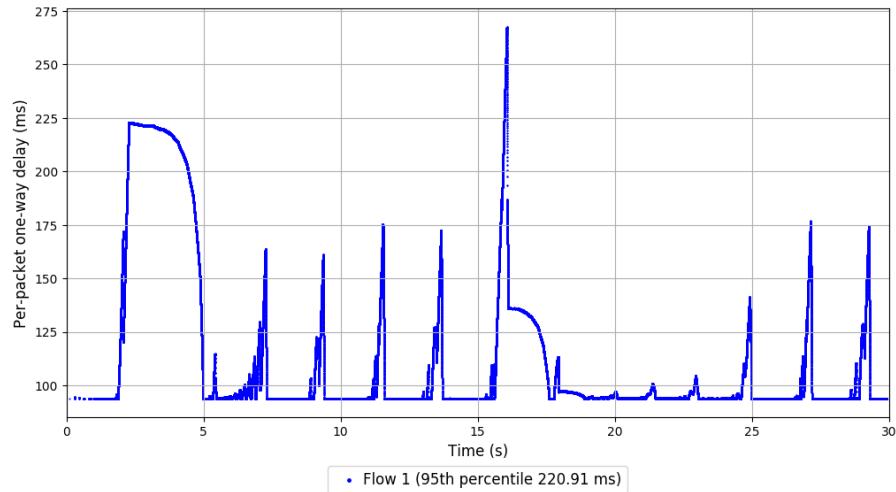
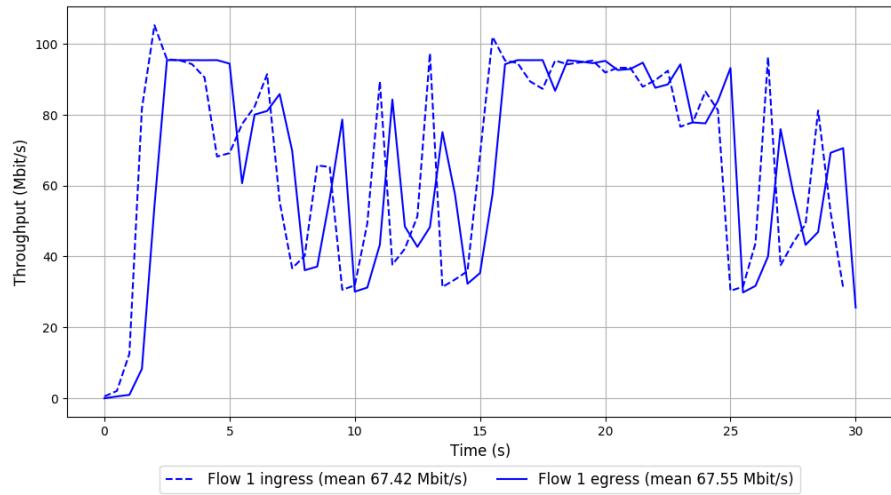


Run 3: Statistics of Copa

```
Start at: 2019-05-30 06:48:02
End at: 2019-05-30 06:48:32
Local clock offset: -7.746 ms
Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2019-05-30 07:44:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.55 Mbit/s
95th percentile per-packet one-way delay: 220.913 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 67.55 Mbit/s
95th percentile per-packet one-way delay: 220.913 ms
Loss rate: 0.39%
```

### Run 3: Report of Copa — Data Link

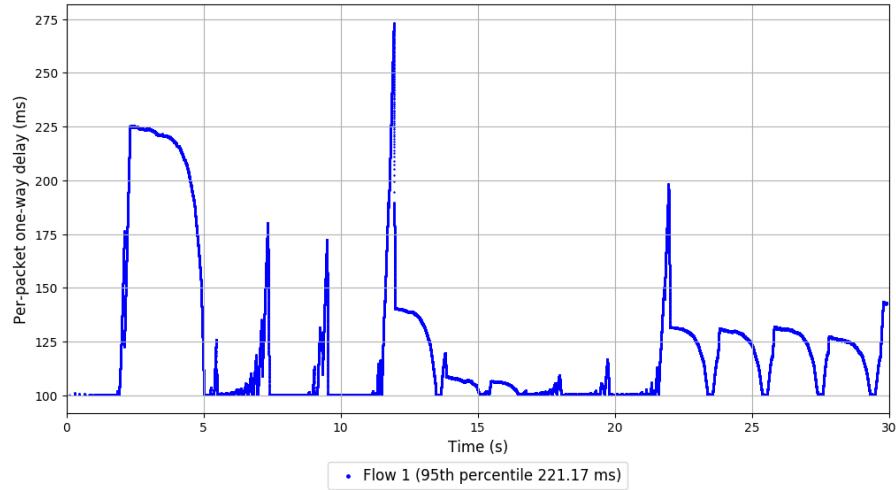
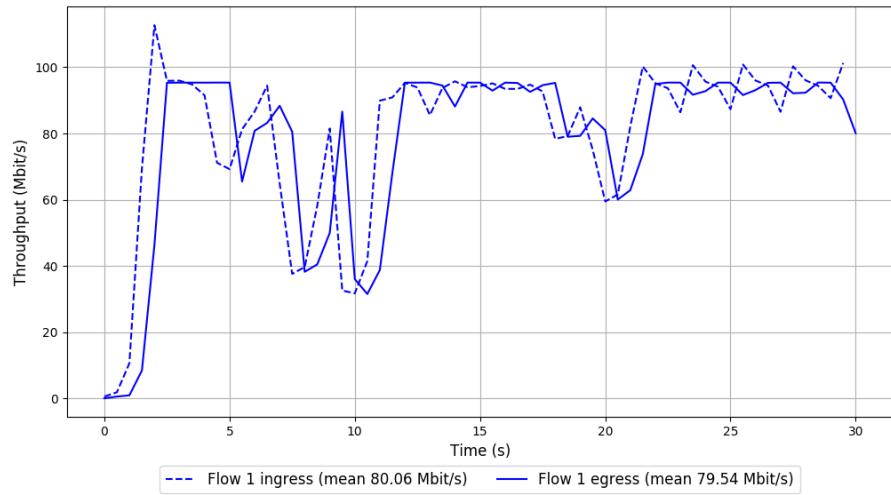


Run 4: Statistics of Copa

```
Start at: 2019-05-30 07:12:56
End at: 2019-05-30 07:13:26
Local clock offset: -7.28 ms
Remote clock offset: 1.325 ms

# Below is generated by plot.py at 2019-05-30 07:45:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.54 Mbit/s
95th percentile per-packet one-way delay: 221.169 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 79.54 Mbit/s
95th percentile per-packet one-way delay: 221.169 ms
Loss rate: 1.25%
```

### Run 4: Report of Copa — Data Link

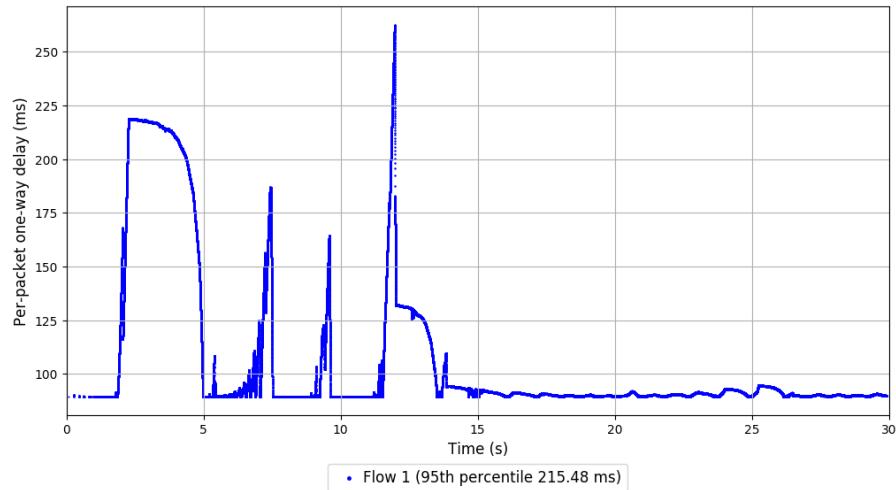
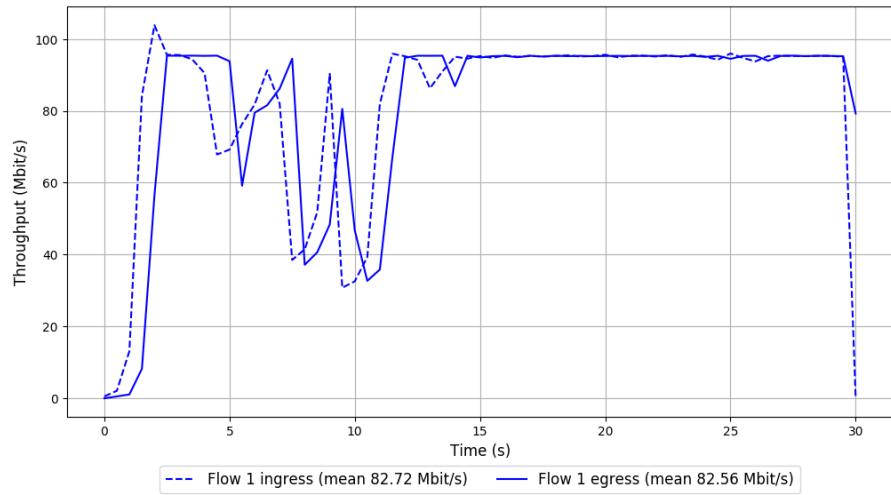


Run 5: Statistics of Copa

```
Start at: 2019-05-30 07:37:52
End at: 2019-05-30 07:38:22
Local clock offset: -6.419 ms
Remote clock offset: 6.084 ms

# Below is generated by plot.py at 2019-05-30 07:45:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.56 Mbit/s
95th percentile per-packet one-way delay: 215.483 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 82.56 Mbit/s
95th percentile per-packet one-way delay: 215.483 ms
Loss rate: 0.77%
```

### Run 5: Report of Copa — Data Link

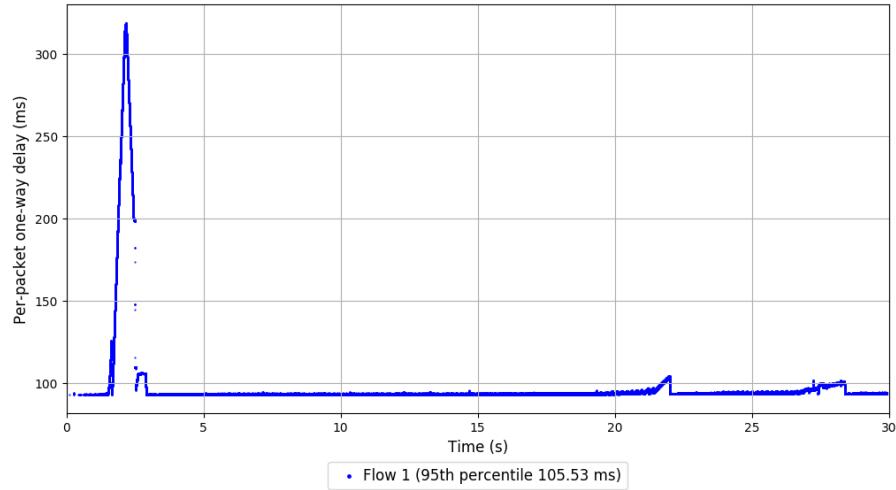
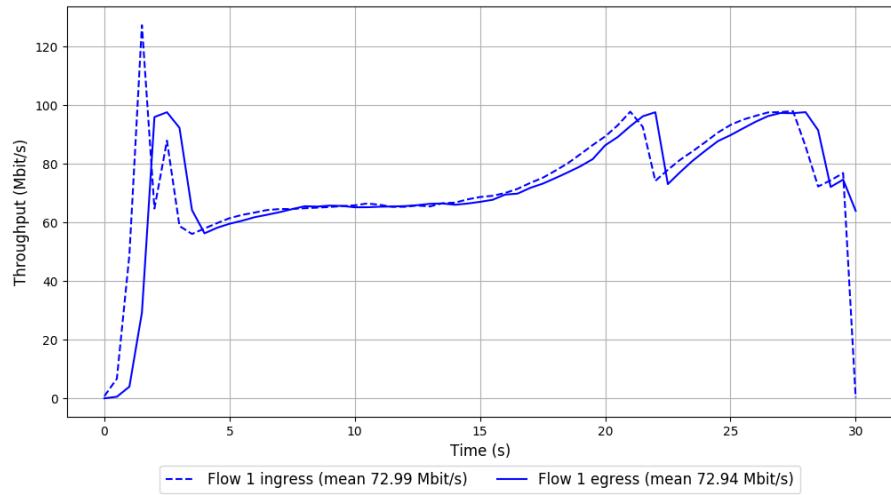


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-05-30 05:36:54
End at: 2019-05-30 05:37:24
Local clock offset: -2.675 ms
Remote clock offset: 18.365 ms

# Below is generated by plot.py at 2019-05-30 07:45:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.94 Mbit/s
95th percentile per-packet one-way delay: 105.532 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 72.94 Mbit/s
95th percentile per-packet one-way delay: 105.532 ms
Loss rate: 0.63%
```

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

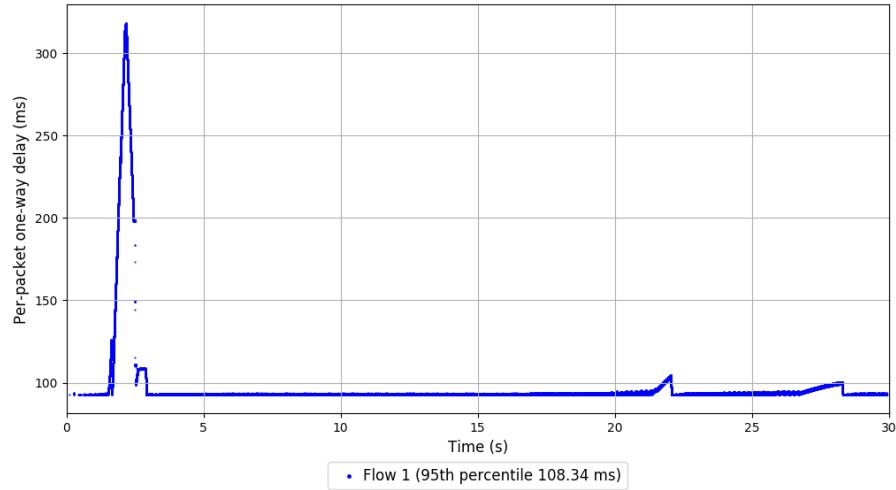
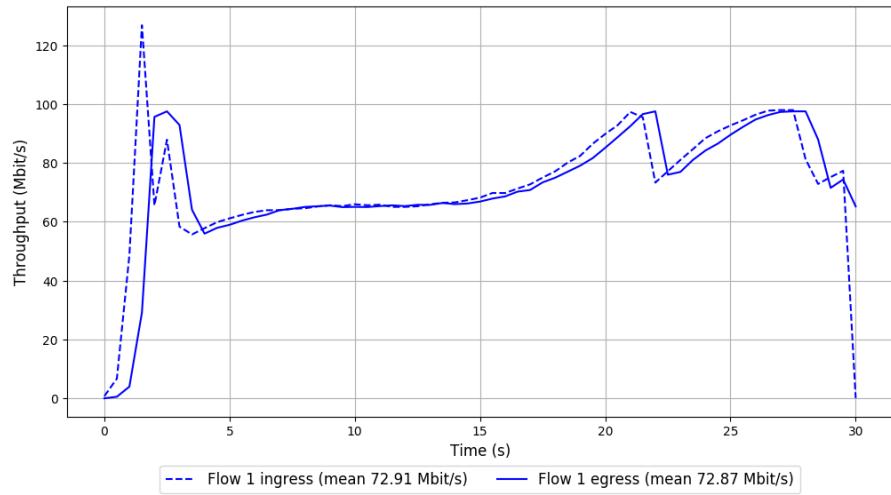


Run 2: Statistics of TCP Cubic

```
Start at: 2019-05-30 06:01:51
End at: 2019-05-30 06:02:21
Local clock offset: -8.91 ms
Remote clock offset: -0.94 ms

# Below is generated by plot.py at 2019-05-30 07:45:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.87 Mbit/s
95th percentile per-packet one-way delay: 108.344 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.87 Mbit/s
95th percentile per-packet one-way delay: 108.344 ms
Loss rate: 0.64%
```

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

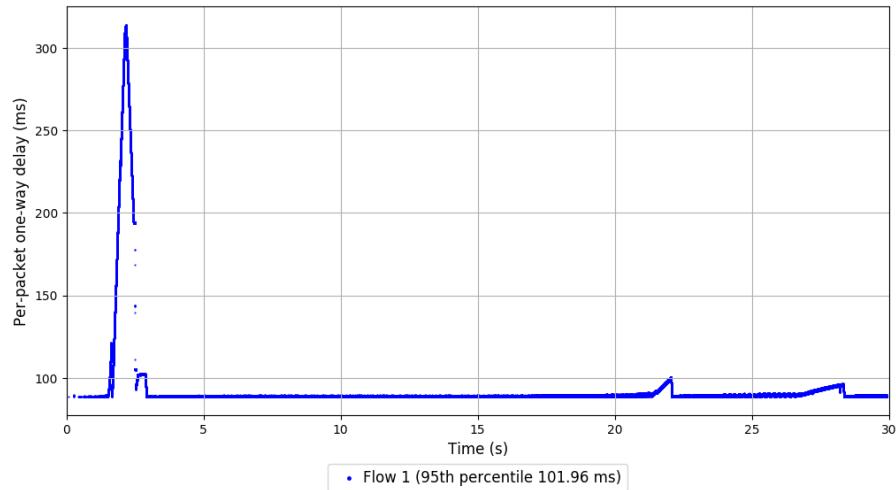
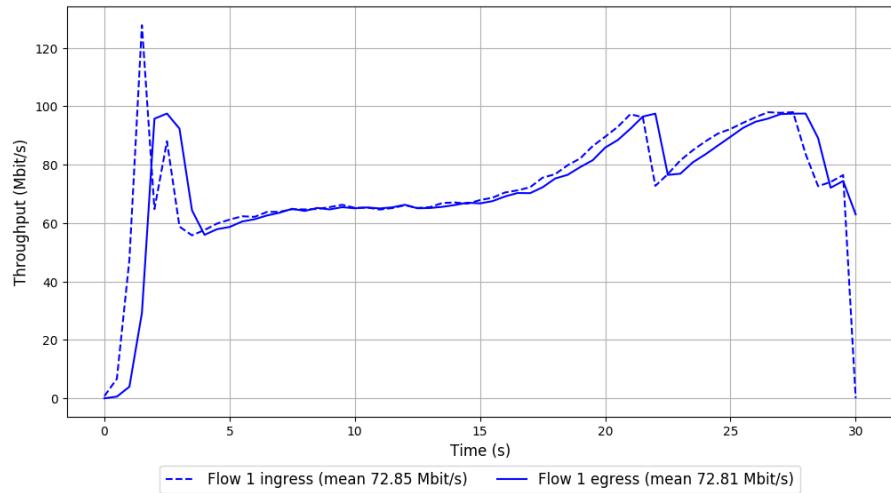


Run 3: Statistics of TCP Cubic

```
Start at: 2019-05-30 06:26:47
End at: 2019-05-30 06:27:17
Local clock offset: -7.072 ms
Remote clock offset: 5.373 ms

# Below is generated by plot.py at 2019-05-30 07:45:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.81 Mbit/s
95th percentile per-packet one-way delay: 101.959 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.81 Mbit/s
95th percentile per-packet one-way delay: 101.959 ms
Loss rate: 0.64%
```

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

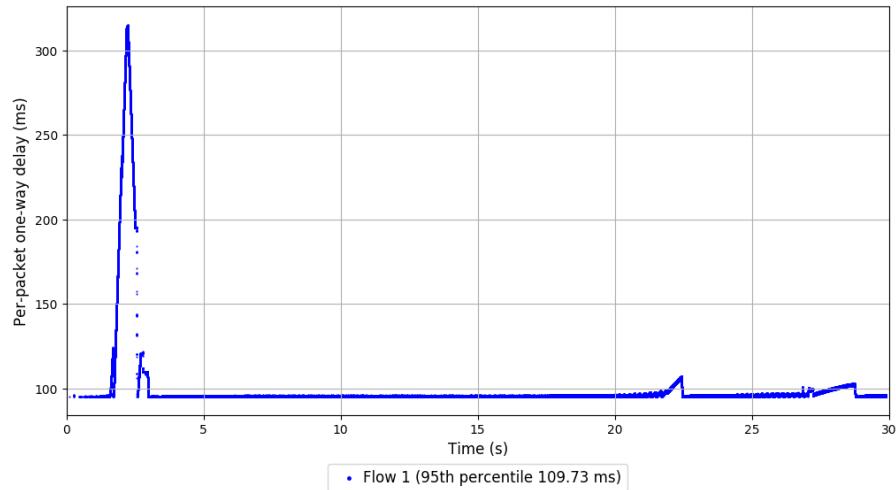
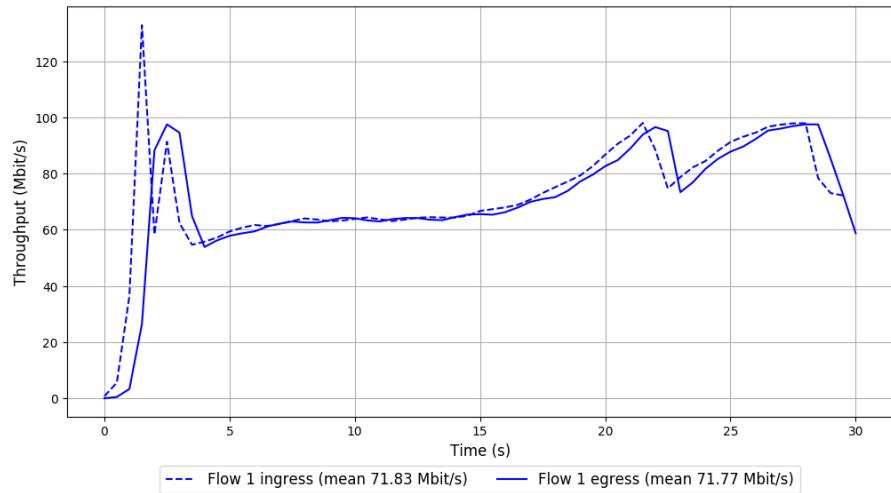


Run 4: Statistics of TCP Cubic

```
Start at: 2019-05-30 06:51:41
End at: 2019-05-30 06:52:11
Local clock offset: -7.955 ms
Remote clock offset: 5.499 ms

# Below is generated by plot.py at 2019-05-30 07:45:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.77 Mbit/s
95th percentile per-packet one-way delay: 109.732 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 71.77 Mbit/s
95th percentile per-packet one-way delay: 109.732 ms
Loss rate: 0.67%
```

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

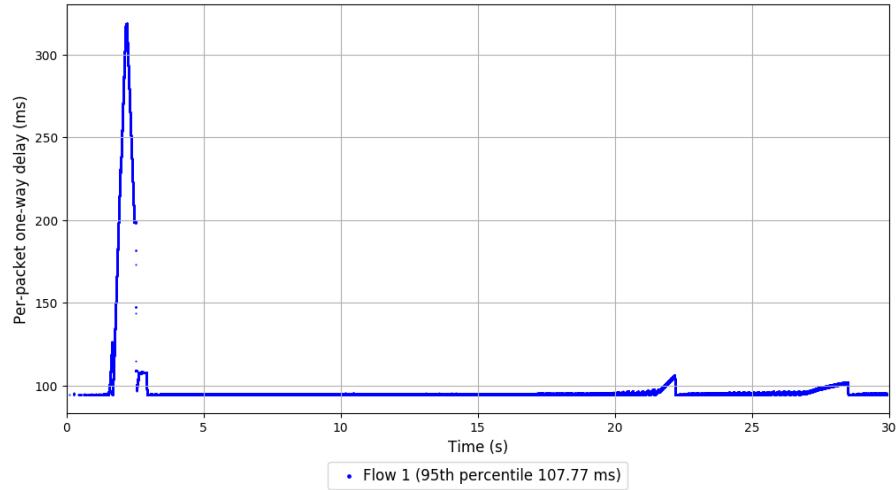
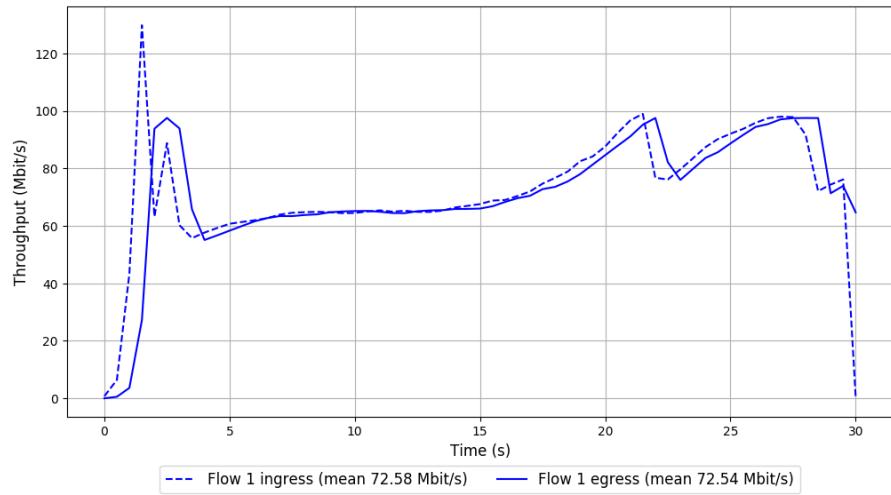


Run 5: Statistics of TCP Cubic

```
Start at: 2019-05-30 07:16:36
End at: 2019-05-30 07:17:06
Local clock offset: -6.199 ms
Remote clock offset: 1.549 ms

# Below is generated by plot.py at 2019-05-30 07:45:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.54 Mbit/s
95th percentile per-packet one-way delay: 107.771 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.54 Mbit/s
95th percentile per-packet one-way delay: 107.771 ms
Loss rate: 0.64%
```

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

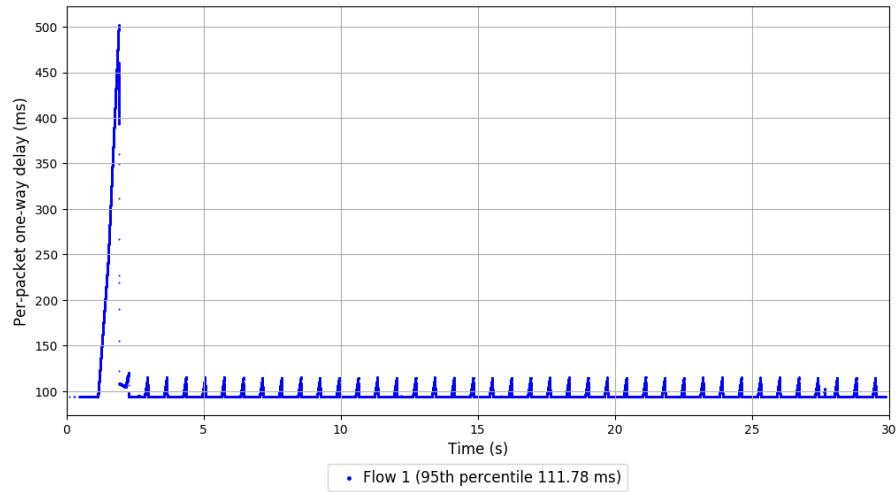
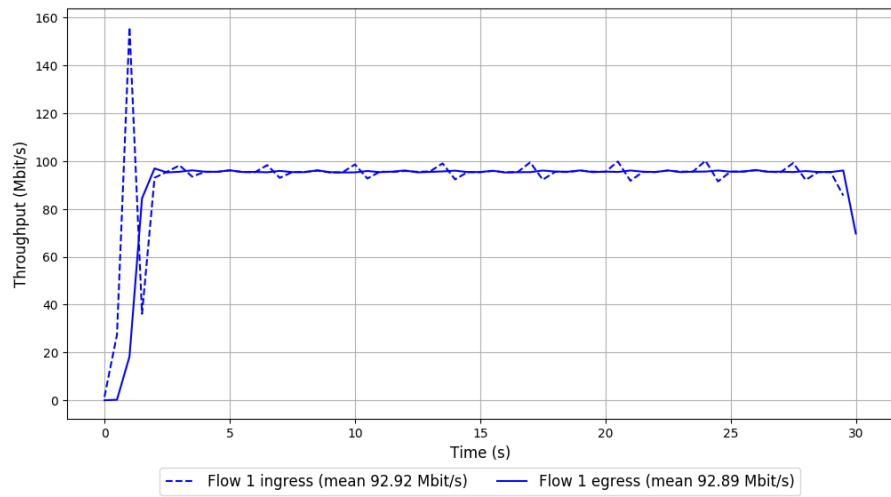


```
Run 1: Statistics of FillP

Start at: 2019-05-30 05:53:27
End at: 2019-05-30 05:53:57
Local clock offset: -7.853 ms
Remote clock offset: 1.081 ms

# Below is generated by plot.py at 2019-05-30 07:45:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.89 Mbit/s
95th percentile per-packet one-way delay: 111.785 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.89 Mbit/s
95th percentile per-packet one-way delay: 111.785 ms
Loss rate: 0.61%
```

Run 1: Report of FillP — Data Link

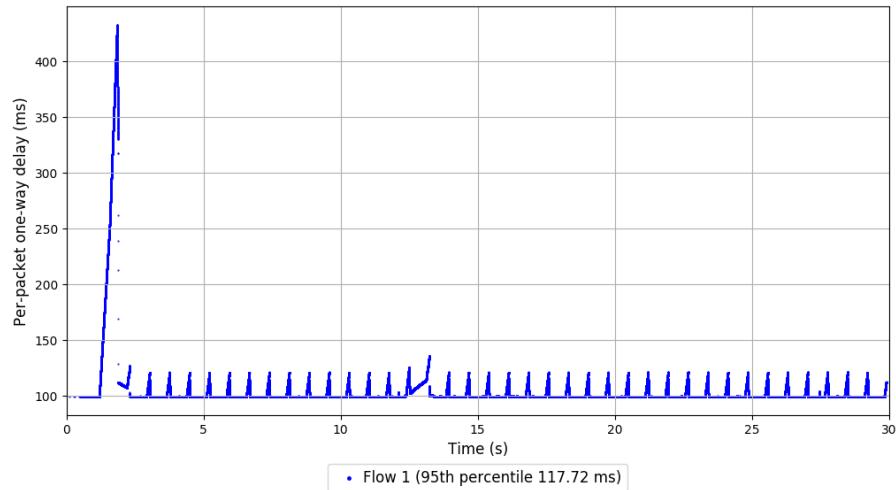
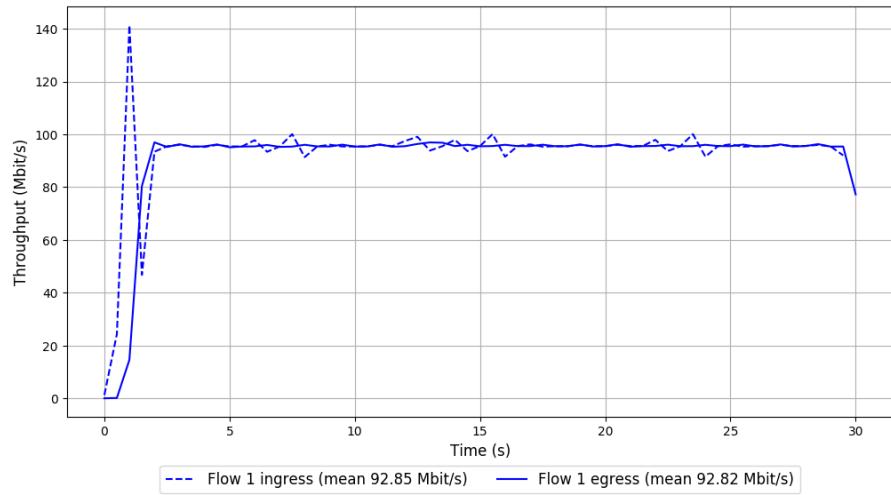


Run 2: Statistics of FillP

```
Start at: 2019-05-30 06:18:23
End at: 2019-05-30 06:18:53
Local clock offset: -7.46 ms
Remote clock offset: -1.003 ms

# Below is generated by plot.py at 2019-05-30 07:45:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.82 Mbit/s
95th percentile per-packet one-way delay: 117.721 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 92.82 Mbit/s
95th percentile per-packet one-way delay: 117.721 ms
Loss rate: 0.62%
```

## Run 2: Report of FillP — Data Link

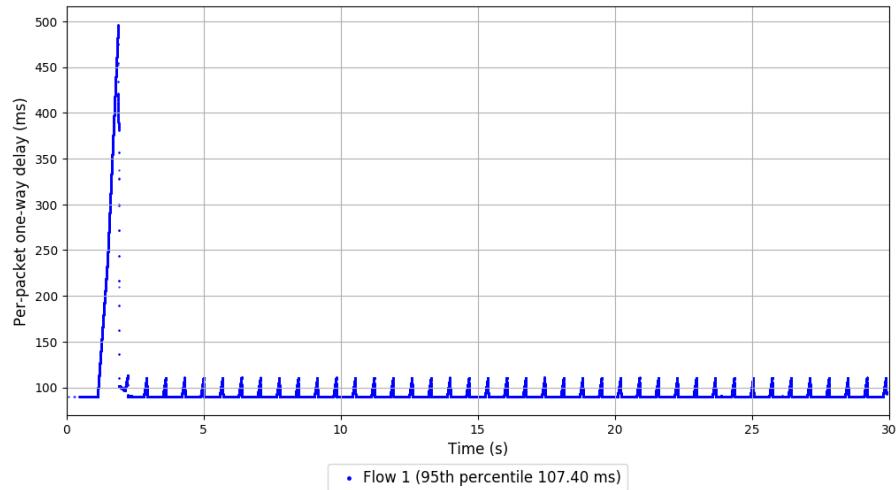
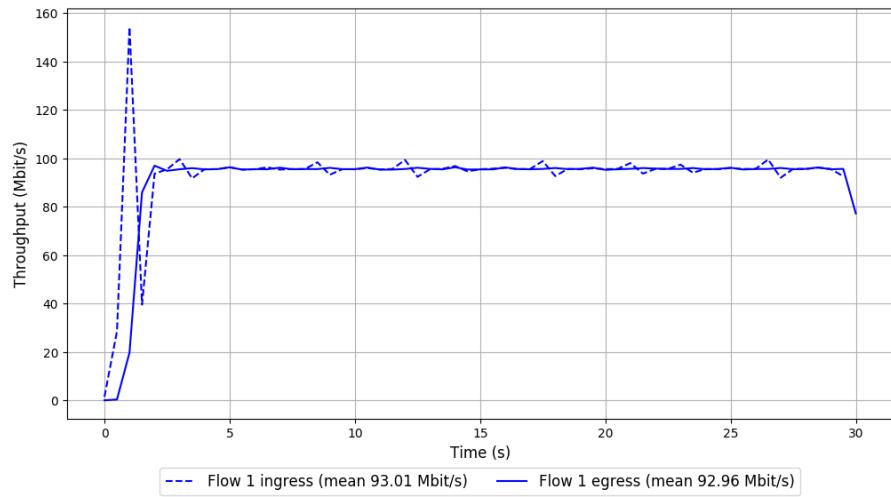


Run 3: Statistics of FillP

```
Start at: 2019-05-30 06:43:18
End at: 2019-05-30 06:43:48
Local clock offset: -6.647 ms
Remote clock offset: 5.068 ms

# Below is generated by plot.py at 2019-05-30 07:45:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 107.402 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 107.402 ms
Loss rate: 0.63%
```

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

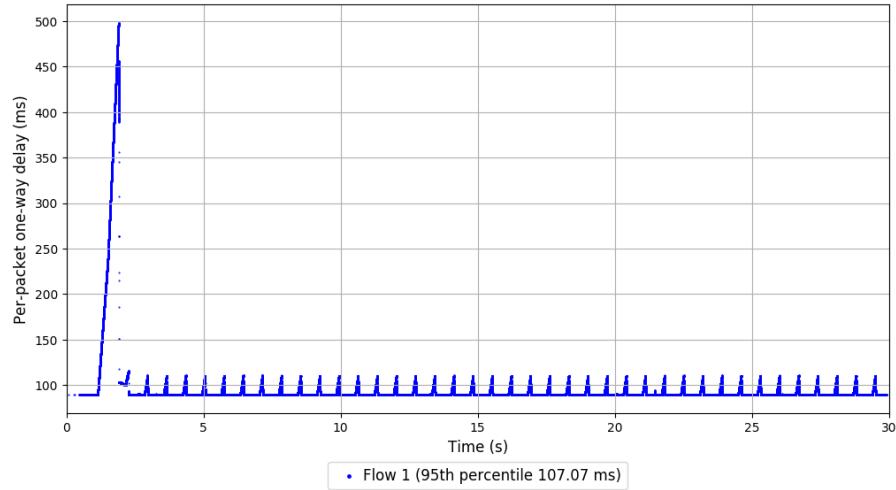
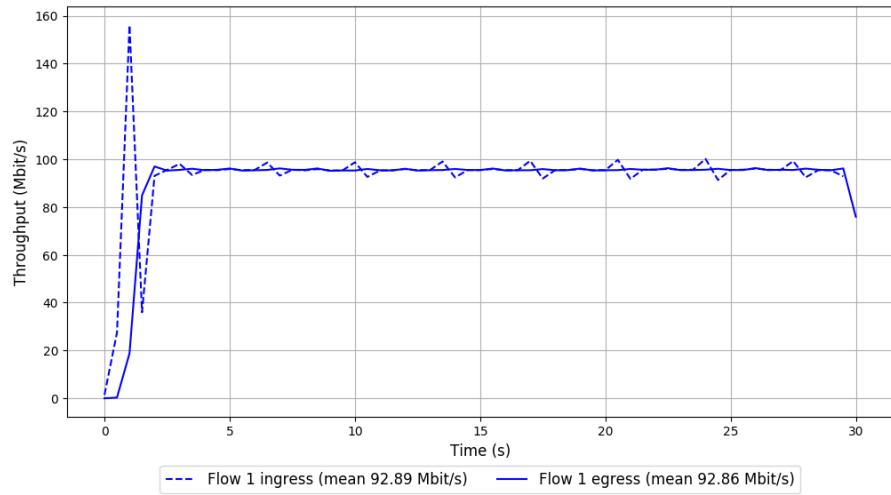


Run 4: Statistics of FillP

```
Start at: 2019-05-30 07:08:13
End at: 2019-05-30 07:08:43
Local clock offset: -7.285 ms
Remote clock offset: 6.591 ms

# Below is generated by plot.py at 2019-05-30 07:45:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.86 Mbit/s
95th percentile per-packet one-way delay: 107.073 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.86 Mbit/s
95th percentile per-packet one-way delay: 107.073 ms
Loss rate: 0.61%
```

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

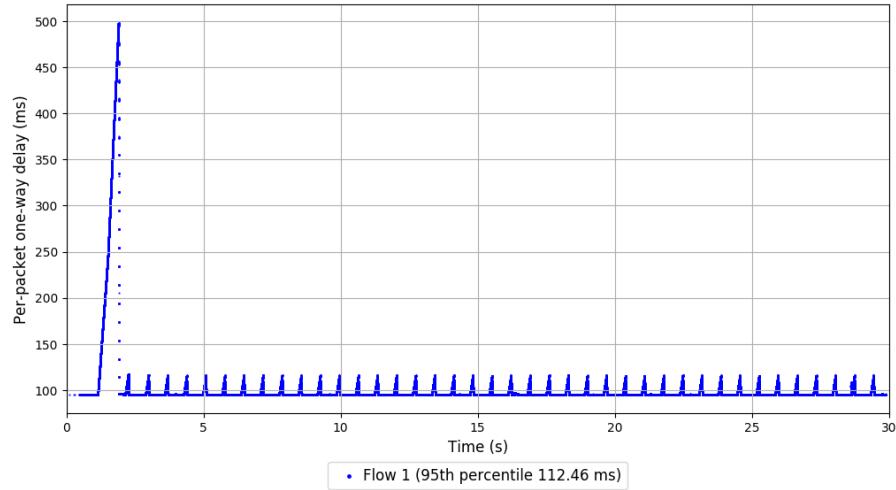
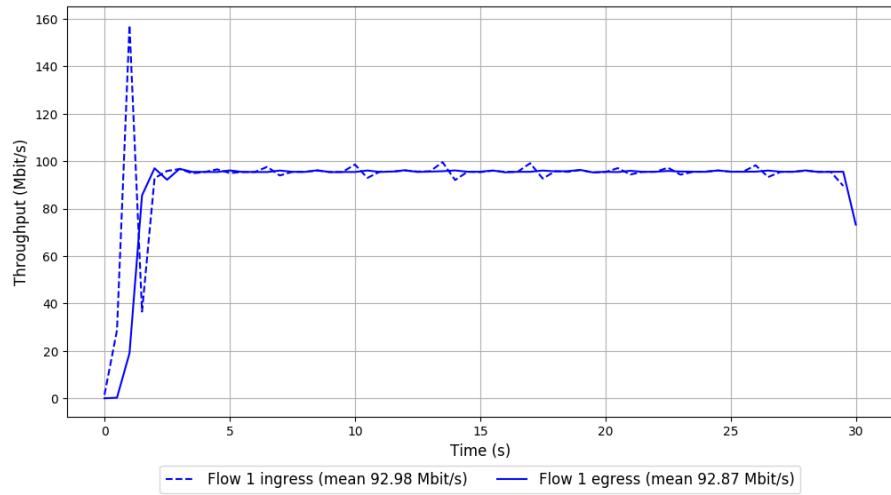


Run 5: Statistics of FillP

```
Start at: 2019-05-30 07:33:08
End at: 2019-05-30 07:33:38
Local clock offset: -5.647 ms
Remote clock offset: 1.334 ms

# Below is generated by plot.py at 2019-05-30 07:46:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.87 Mbit/s
95th percentile per-packet one-way delay: 112.461 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 92.87 Mbit/s
95th percentile per-packet one-way delay: 112.461 ms
Loss rate: 0.70%
```

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

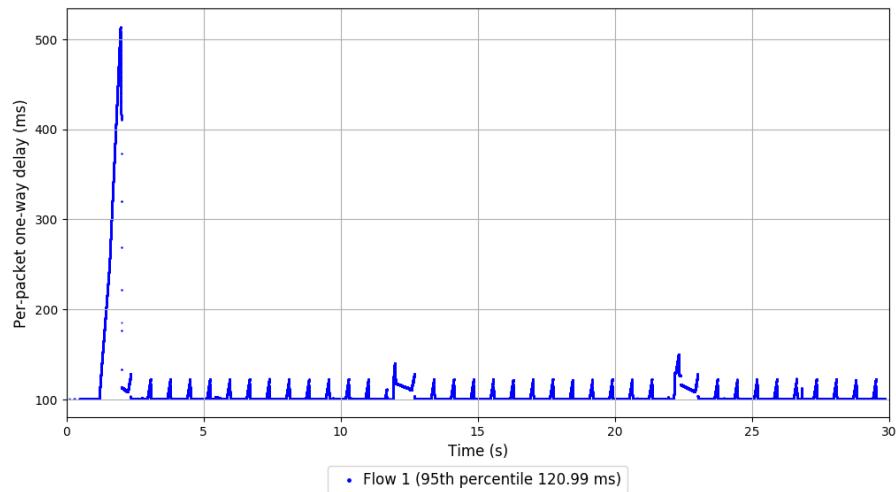
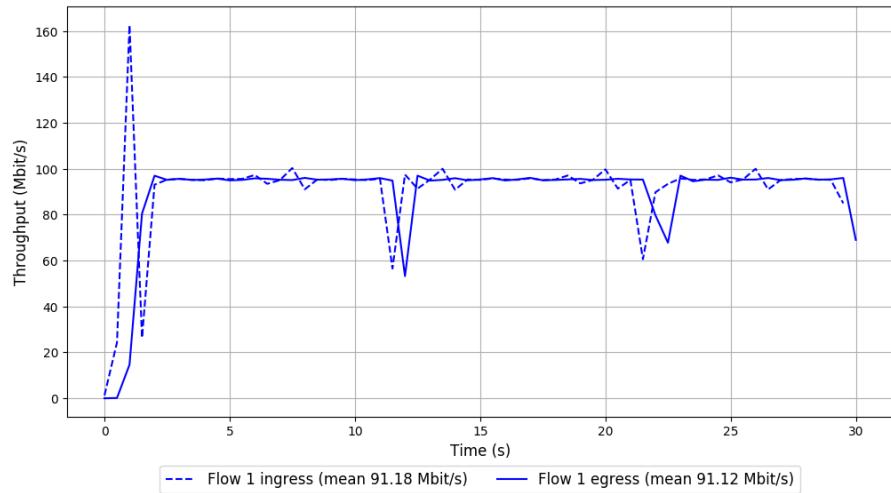


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-05-30 05:55:52
End at: 2019-05-30 05:56:22
Local clock offset: -7.697 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-05-30 07:46:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.12 Mbit/s
95th percentile per-packet one-way delay: 120.986 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 91.12 Mbit/s
95th percentile per-packet one-way delay: 120.986 ms
Loss rate: 0.66%
```

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

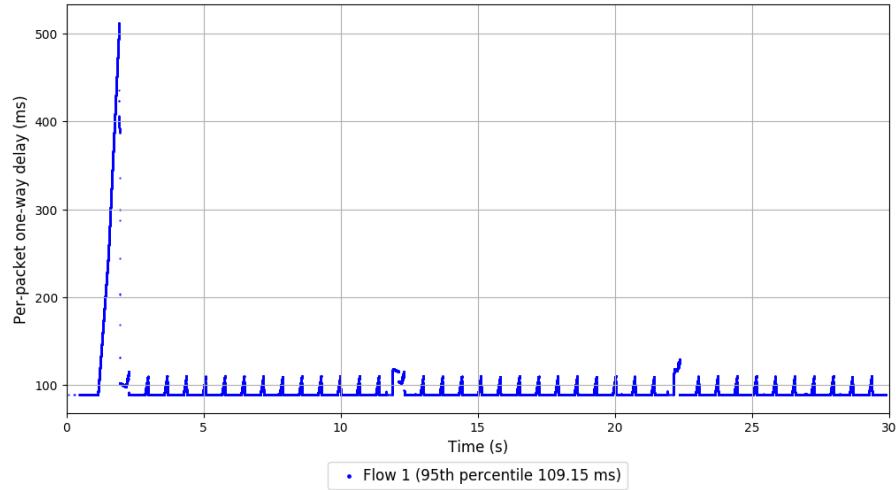
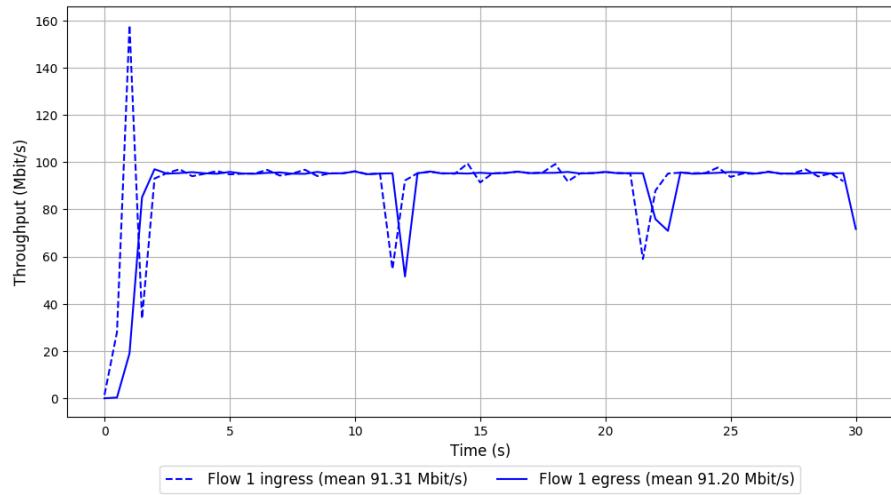


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-05-30 06:20:48
End at: 2019-05-30 06:21:18
Local clock offset: -7.25 ms
Remote clock offset: 3.559 ms

# Below is generated by plot.py at 2019-05-30 07:46:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 109.146 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 109.146 ms
Loss rate: 0.70%
```

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

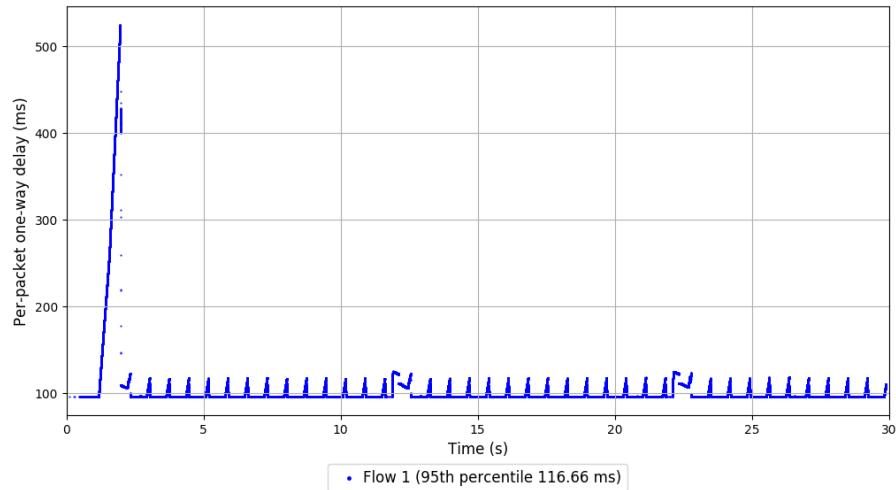
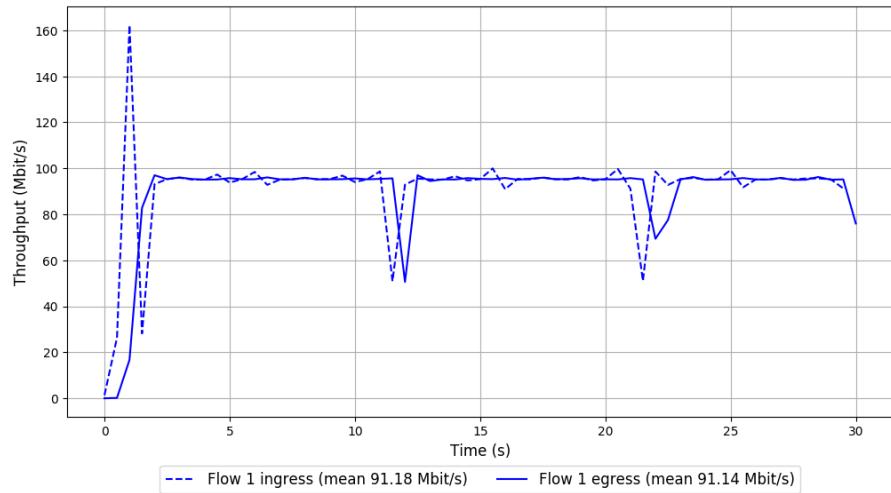


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-05-30 06:45:43
End at: 2019-05-30 06:46:13
Local clock offset: -6.935 ms
Remote clock offset: 5.118 ms

# Below is generated by plot.py at 2019-05-30 07:46:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 116.657 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 116.657 ms
Loss rate: 0.64%
```

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

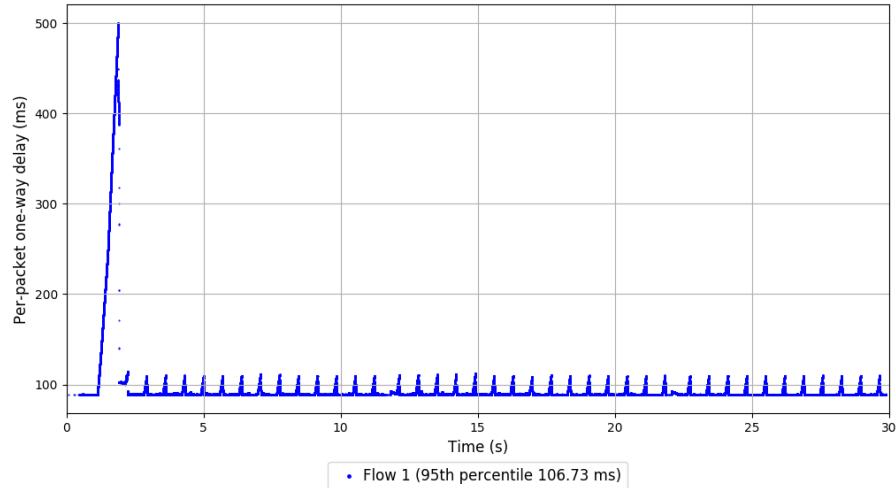
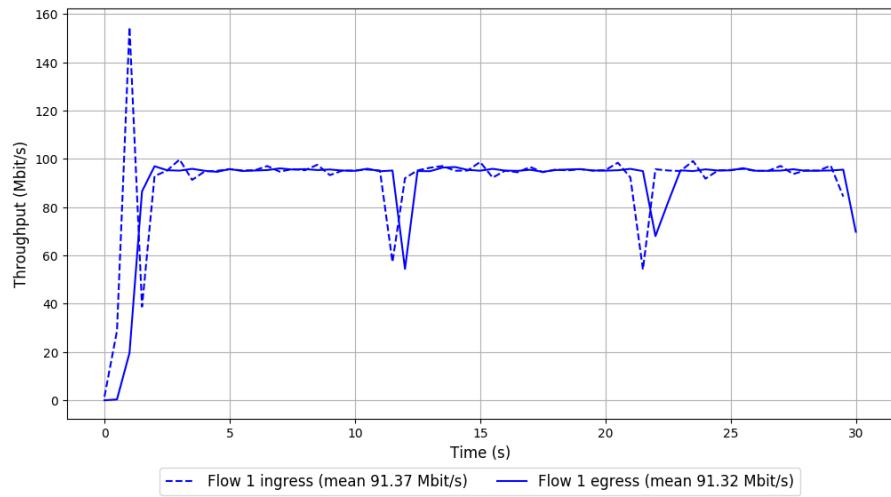


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-05-30 07:10:37
End at: 2019-05-30 07:11:07
Local clock offset: -7.801 ms
Remote clock offset: 6.582 ms

# Below is generated by plot.py at 2019-05-30 07:46:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.32 Mbit/s
95th percentile per-packet one-way delay: 106.726 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 91.32 Mbit/s
95th percentile per-packet one-way delay: 106.726 ms
Loss rate: 0.63%
```

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

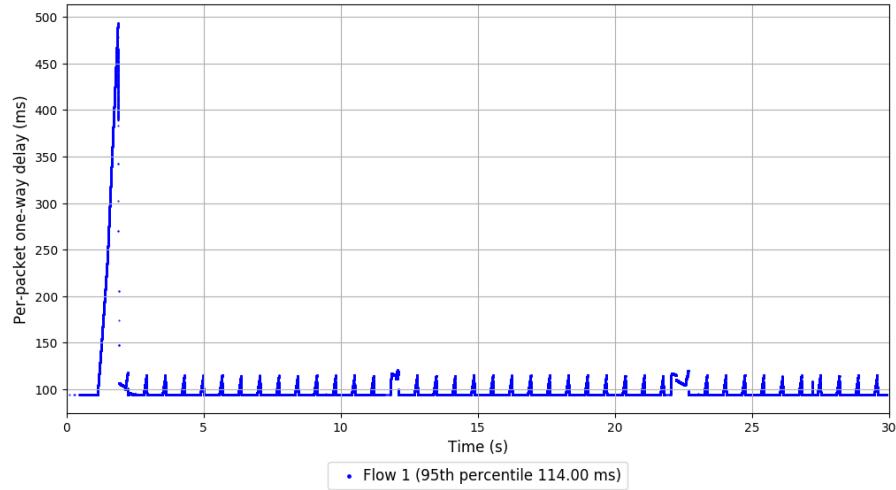
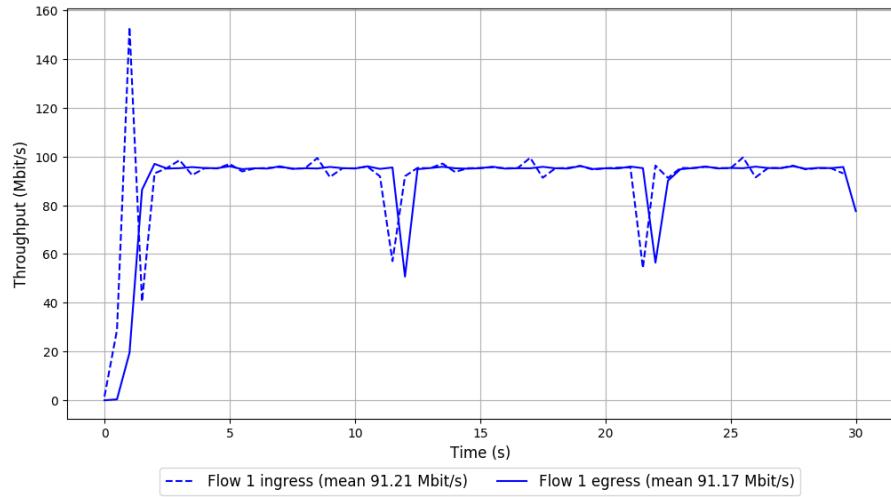


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-05-30 07:35:33
End at: 2019-05-30 07:36:03
Local clock offset: -5.681 ms
Remote clock offset: 1.378 ms

# Below is generated by plot.py at 2019-05-30 07:46:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.17 Mbit/s
95th percentile per-packet one-way delay: 113.995 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 91.17 Mbit/s
95th percentile per-packet one-way delay: 113.995 ms
Loss rate: 0.62%
```

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

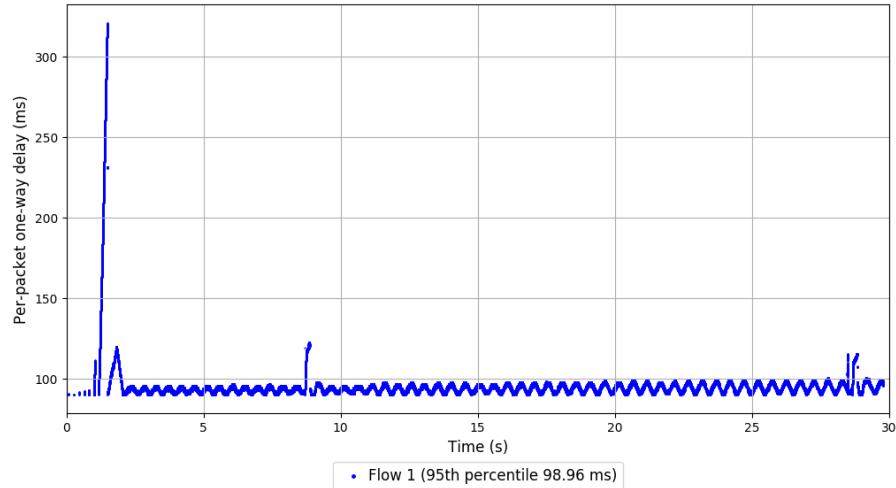
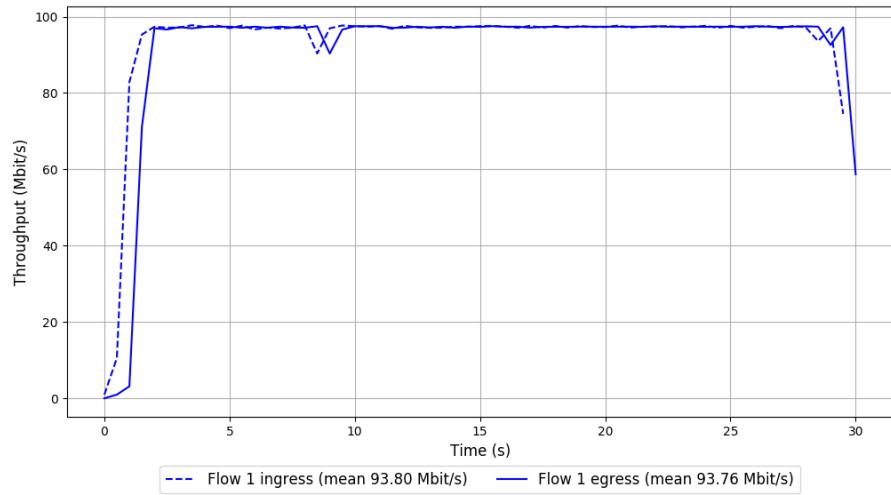


Run 1: Statistics of Indigo

```
Start at: 2019-05-30 05:59:25
End at: 2019-05-30 05:59:55
Local clock offset: -7.912 ms
Remote clock offset: 3.634 ms

# Below is generated by plot.py at 2019-05-30 07:46:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 98.964 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 98.964 ms
Loss rate: 0.63%
```

## Run 1: Report of Indigo — Data Link

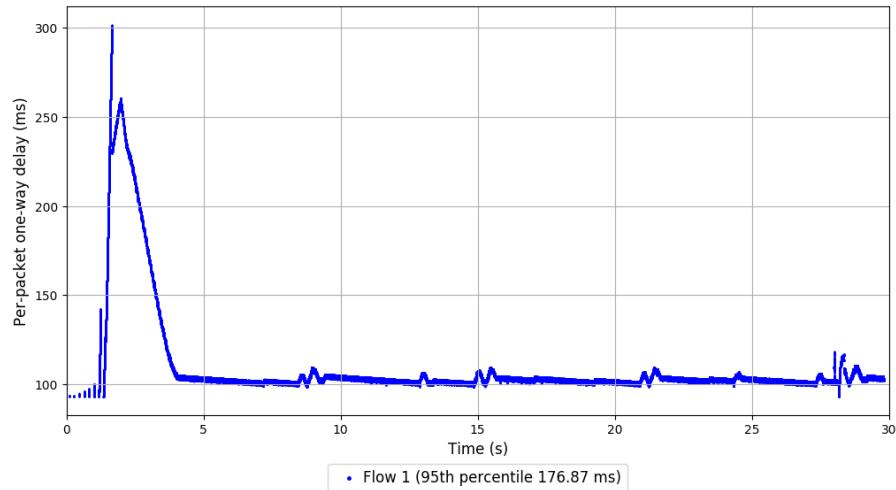
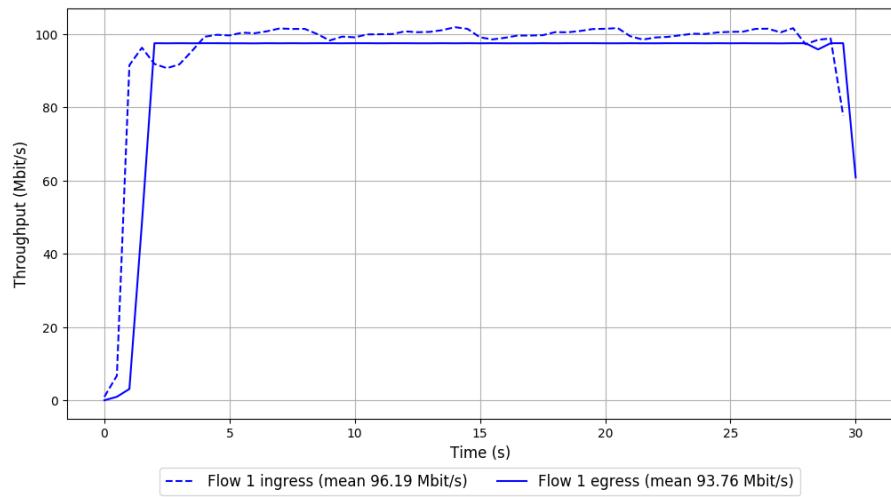


Run 2: Statistics of Indigo

```
Start at: 2019-05-30 06:24:21
End at: 2019-05-30 06:24:51
Local clock offset: -7.2 ms
Remote clock offset: 0.492 ms

# Below is generated by plot.py at 2019-05-30 07:46:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 176.874 ms
Loss rate: 3.09%
-- Flow 1:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 176.874 ms
Loss rate: 3.09%
```

## Run 2: Report of Indigo — Data Link

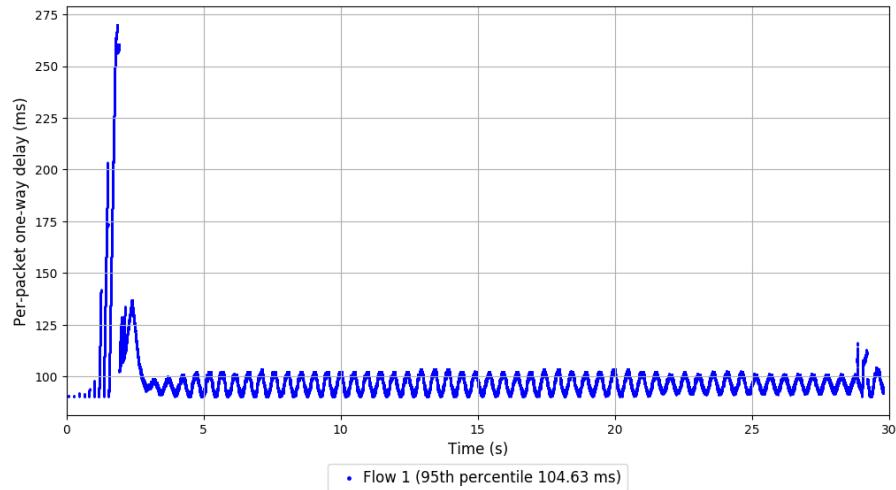
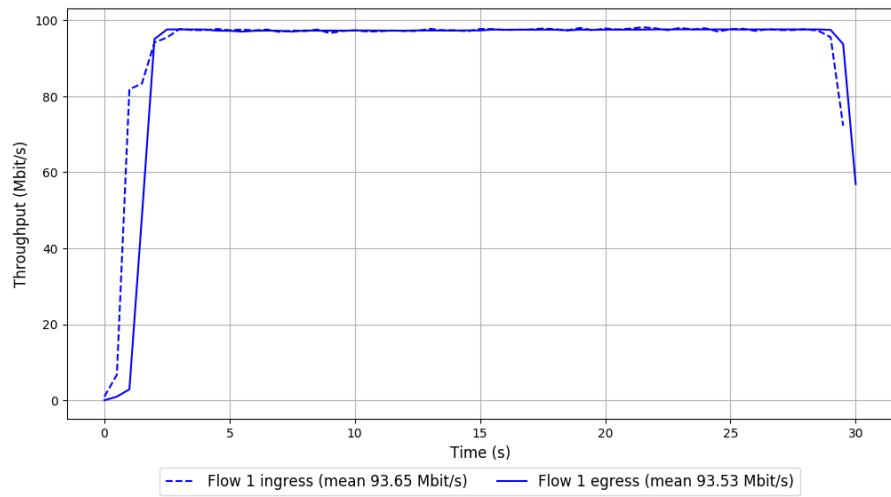


Run 3: Statistics of Indigo

```
Start at: 2019-05-30 06:49:15
End at: 2019-05-30 06:49:45
Local clock offset: -6.883 ms
Remote clock offset: 5.066 ms

# Below is generated by plot.py at 2019-05-30 07:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 104.631 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 104.631 ms
Loss rate: 0.71%
```

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

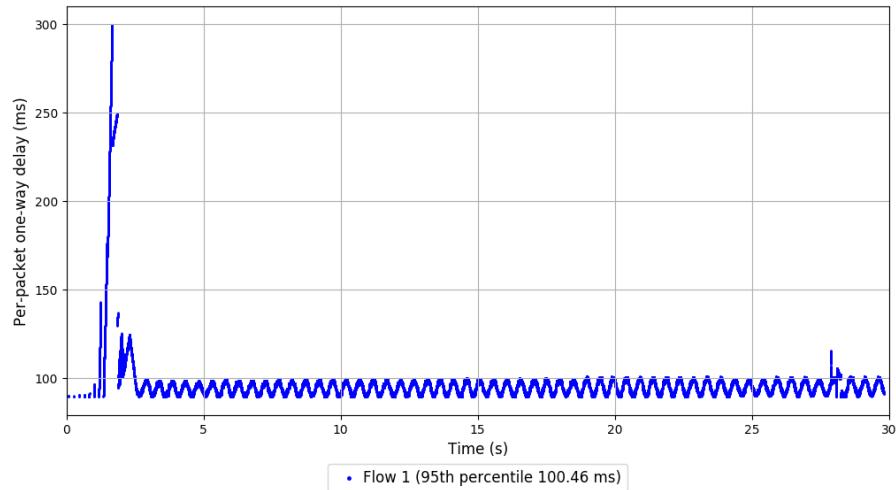
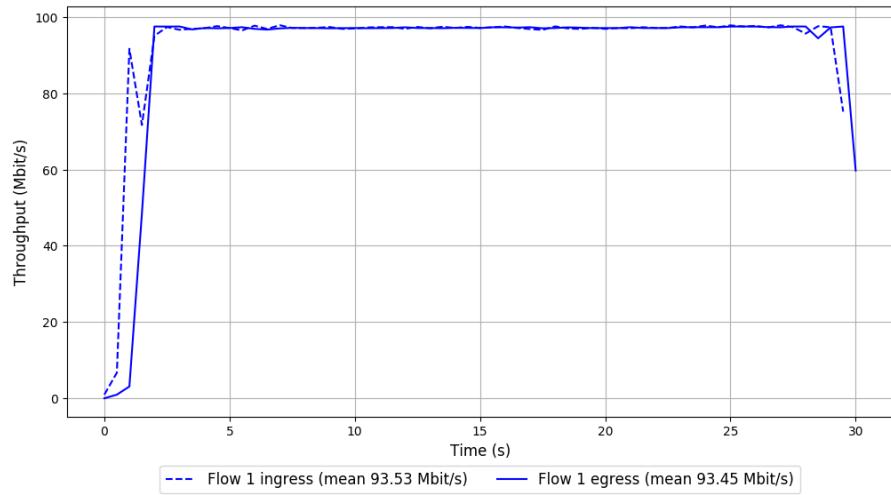


Run 4: Statistics of Indigo

```
Start at: 2019-05-30 07:14:11
End at: 2019-05-30 07:14:41
Local clock offset: -6.622 ms
Remote clock offset: 6.617 ms

# Below is generated by plot.py at 2019-05-30 07:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 100.459 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 100.459 ms
Loss rate: 0.67%
```

## Run 4: Report of Indigo — Data Link

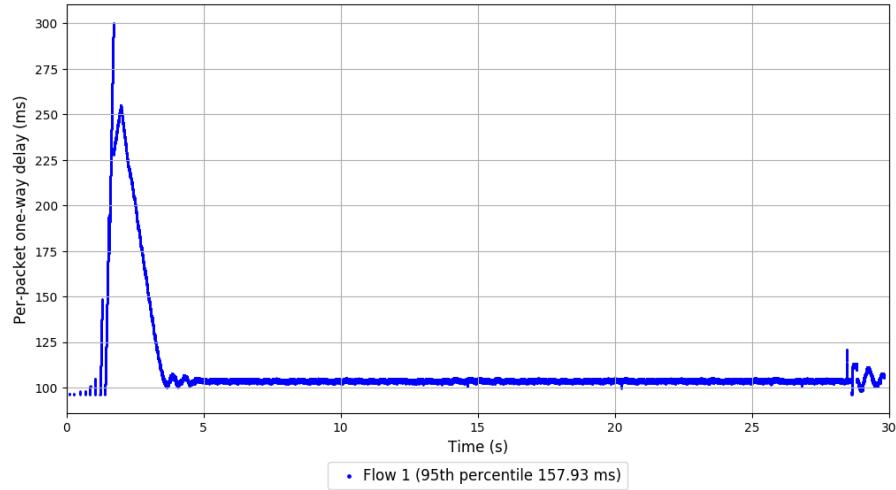
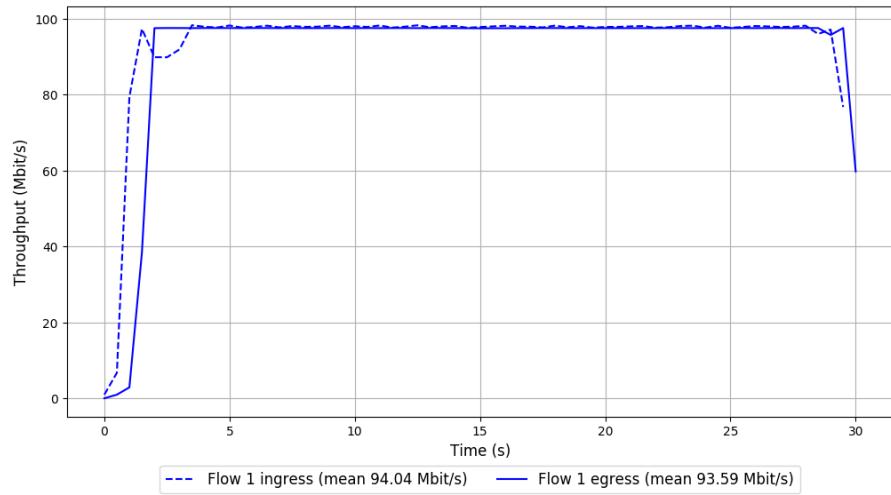


Run 5: Statistics of Indigo

```
Start at: 2019-05-30 07:39:07
End at: 2019-05-30 07:39:37
Local clock offset: -5.797 ms
Remote clock offset: 6.203 ms

# Below is generated by plot.py at 2019-05-30 07:47:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.59 Mbit/s
95th percentile per-packet one-way delay: 157.932 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 93.59 Mbit/s
95th percentile per-packet one-way delay: 157.932 ms
Loss rate: 1.07%
```

## Run 5: Report of Indigo — Data Link

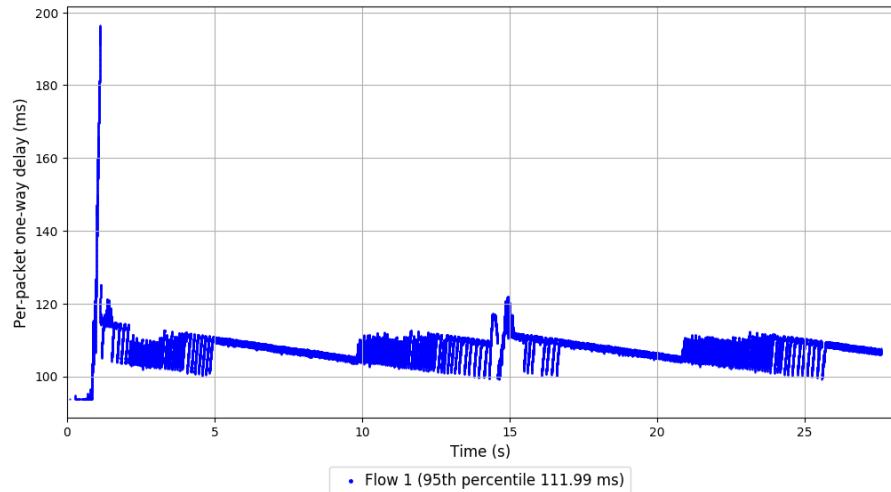
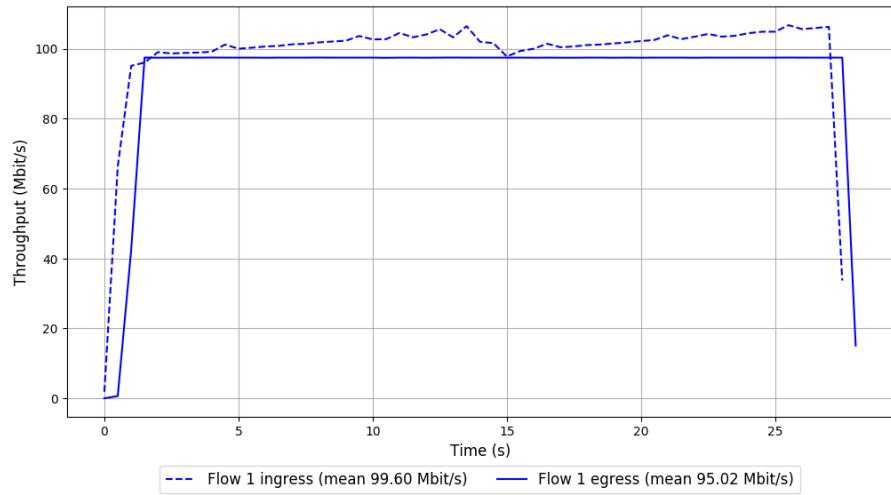


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-05-30 05:41:35
End at: 2019-05-30 05:42:05
Local clock offset: -3.936 ms
Remote clock offset: 13.721 ms

# Below is generated by plot.py at 2019-05-30 07:47:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.02 Mbit/s
95th percentile per-packet one-way delay: 111.991 ms
Loss rate: 5.19%
-- Flow 1:
Average throughput: 95.02 Mbit/s
95th percentile per-packet one-way delay: 111.991 ms
Loss rate: 5.19%
```

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

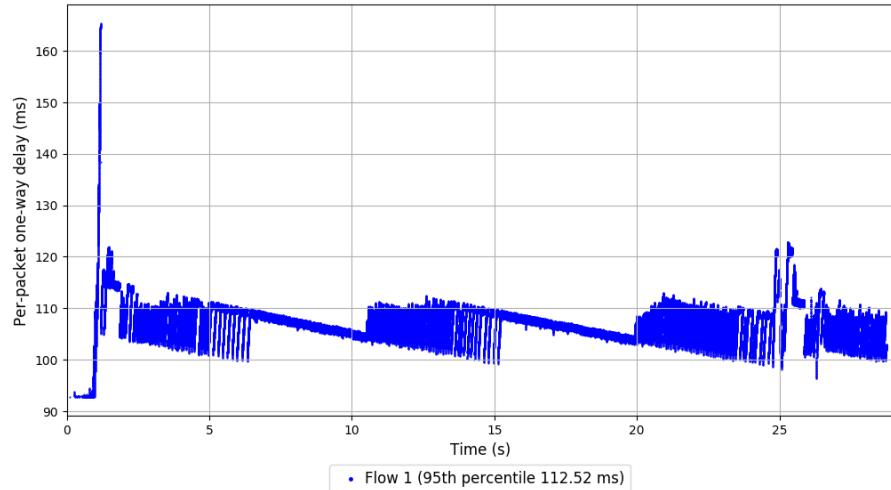
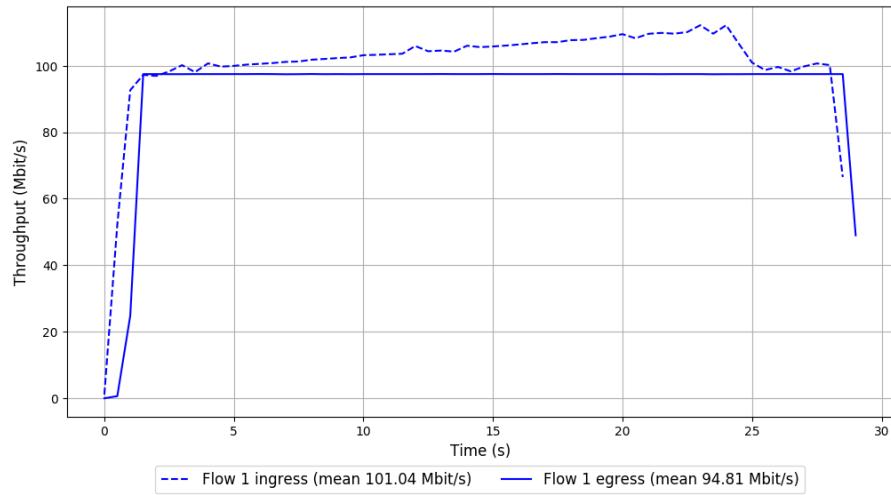


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-05-30 06:06:31
End at: 2019-05-30 06:07:01
Local clock offset: -9.564 ms
Remote clock offset: -2.048 ms

# Below is generated by plot.py at 2019-05-30 07:47:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.81 Mbit/s
95th percentile per-packet one-way delay: 112.519 ms
Loss rate: 6.73%
-- Flow 1:
Average throughput: 94.81 Mbit/s
95th percentile per-packet one-way delay: 112.519 ms
Loss rate: 6.73%
```

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

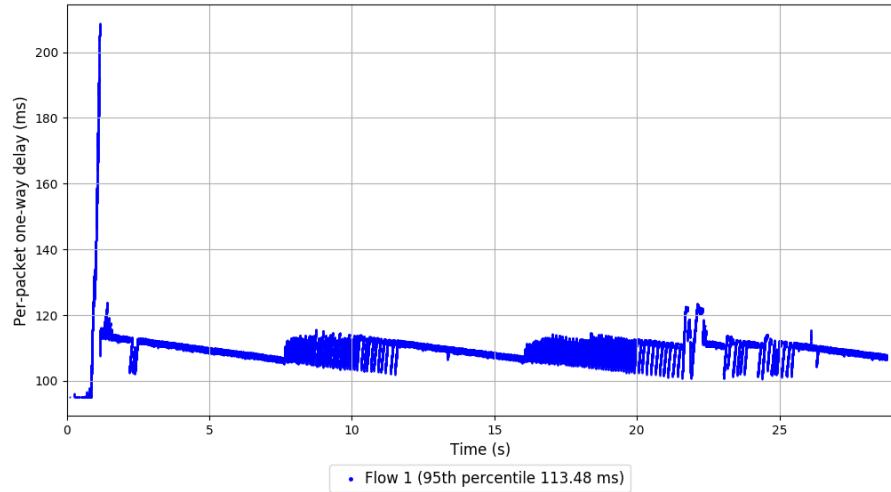
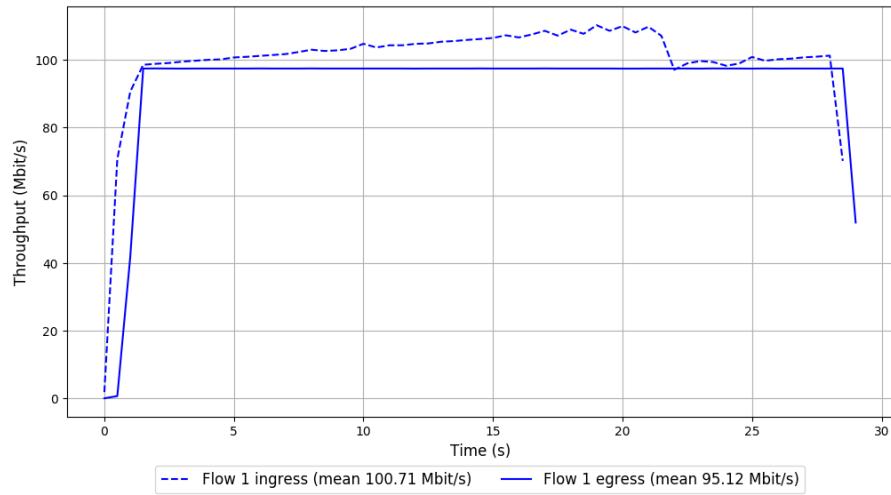


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-05-30 06:31:27
End at: 2019-05-30 06:31:57
Local clock offset: -6.303 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2019-05-30 07:47:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.12 Mbit/s
95th percentile per-packet one-way delay: 113.479 ms
Loss rate: 6.11%
-- Flow 1:
Average throughput: 95.12 Mbit/s
95th percentile per-packet one-way delay: 113.479 ms
Loss rate: 6.11%
```

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

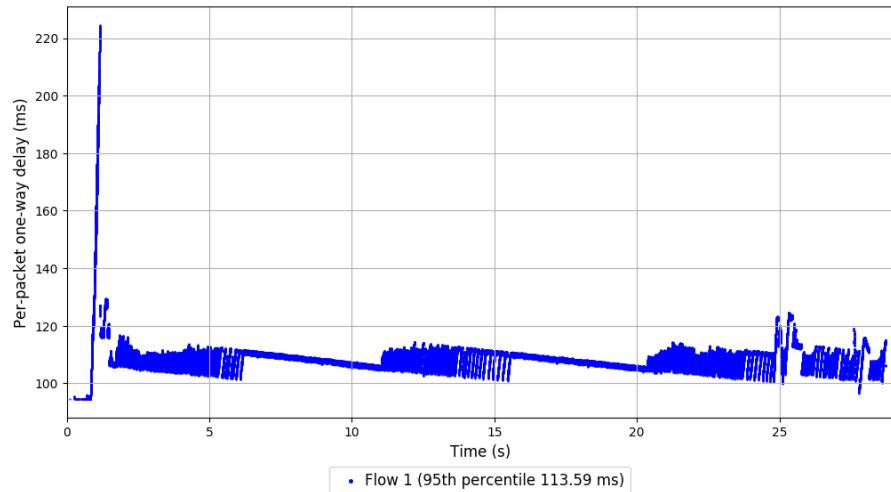
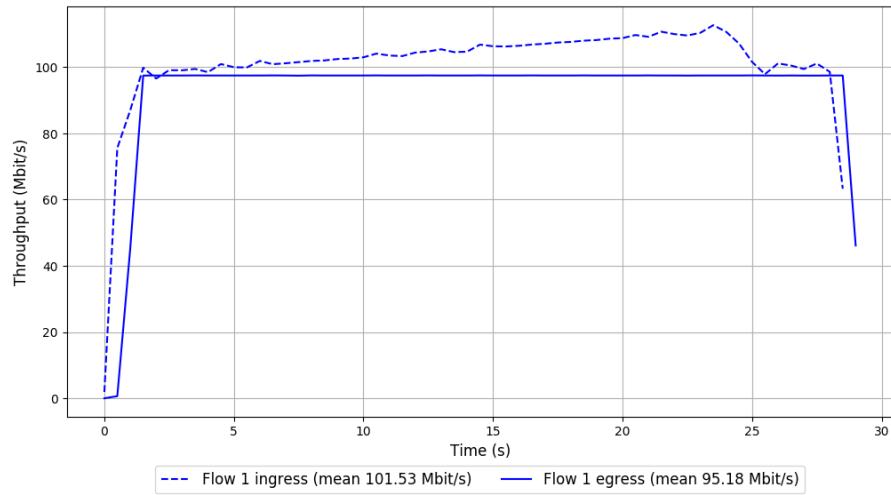


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-05-30 06:56:21
End at: 2019-05-30 06:56:51
Local clock offset: -7.853 ms
Remote clock offset: 0.749 ms

# Below is generated by plot.py at 2019-05-30 07:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 113.590 ms
Loss rate: 6.80%
-- Flow 1:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 113.590 ms
Loss rate: 6.80%
```

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

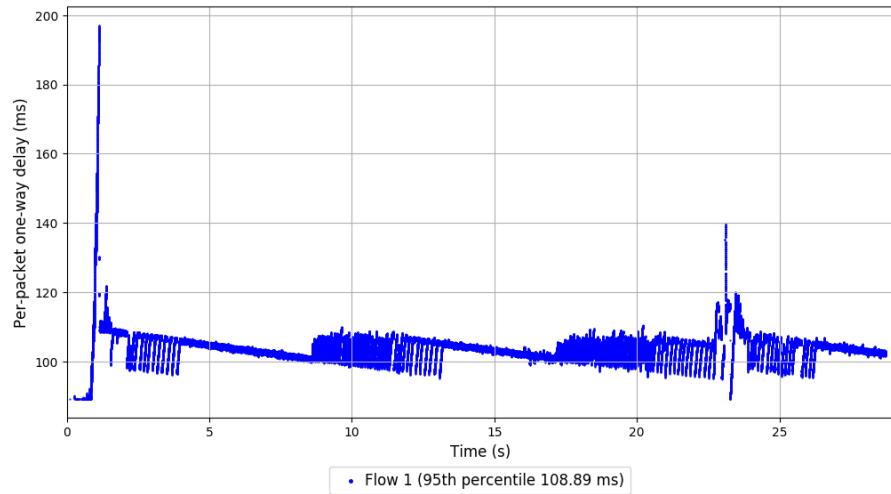
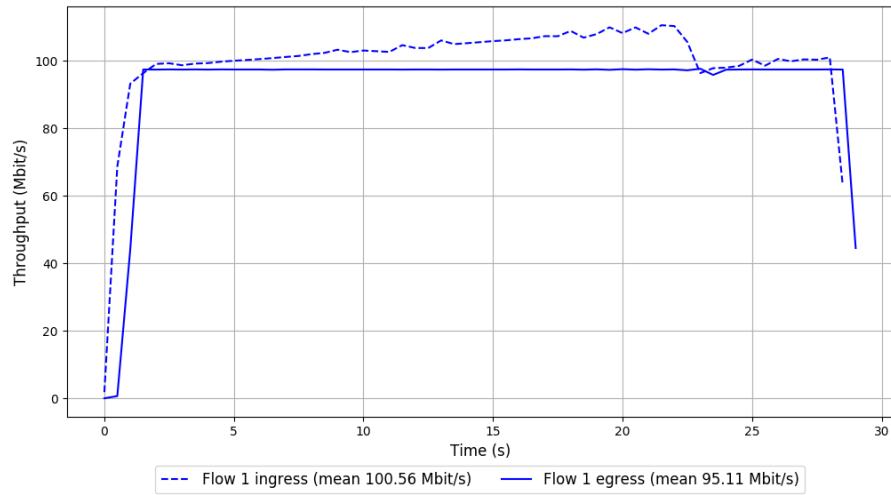


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-05-30 07:21:17
End at: 2019-05-30 07:21:47
Local clock offset: -6.89 ms
Remote clock offset: 6.365 ms

# Below is generated by plot.py at 2019-05-30 07:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 108.887 ms
Loss rate: 5.98%
-- Flow 1:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 108.887 ms
Loss rate: 5.98%
```

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

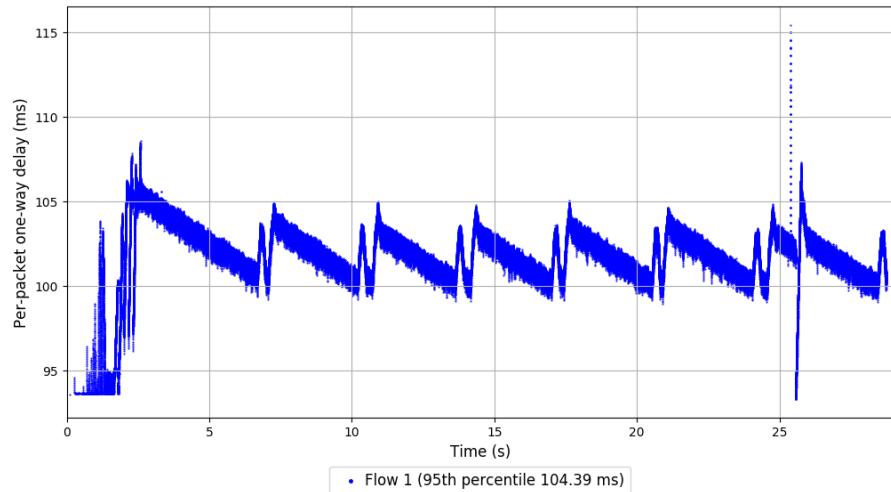
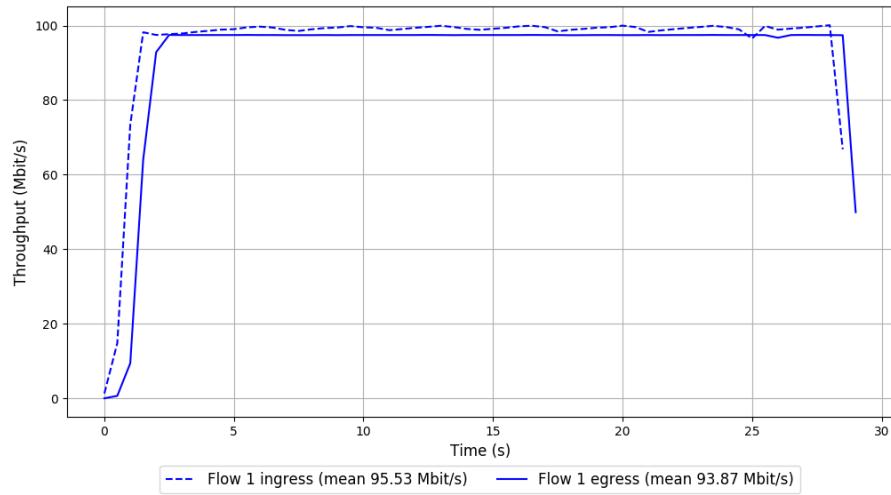


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-05-30 05:45:11
End at: 2019-05-30 05:45:41
Local clock offset: -6.062 ms
Remote clock offset: 7.72 ms

# Below is generated by plot.py at 2019-05-30 07:48:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 104.387 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 104.387 ms
Loss rate: 2.33%
```

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

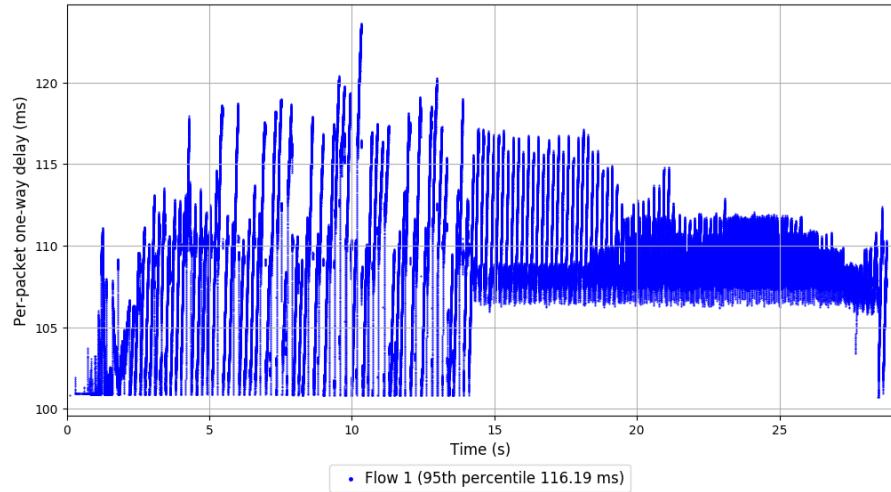
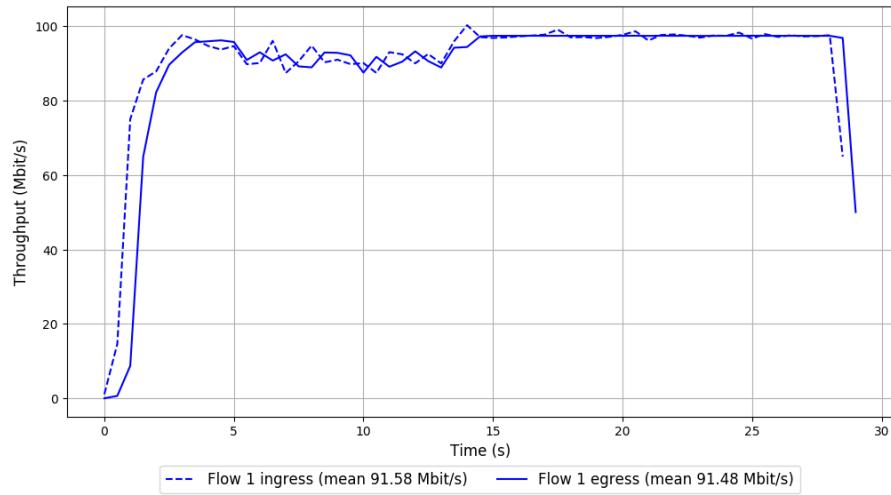


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-05-30 06:10:08
End at: 2019-05-30 06:10:38
Local clock offset: -7.892 ms
Remote clock offset: -4.012 ms

# Below is generated by plot.py at 2019-05-30 07:48:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 116.191 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 116.191 ms
Loss rate: 0.73%
```

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

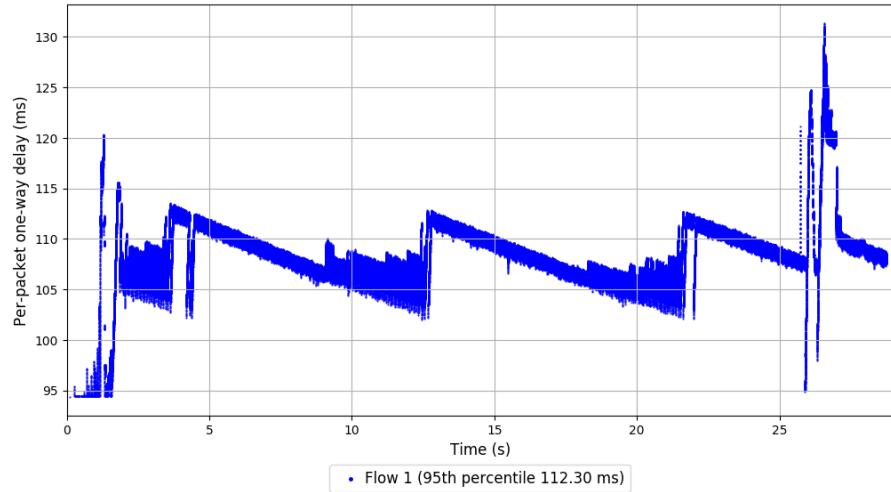
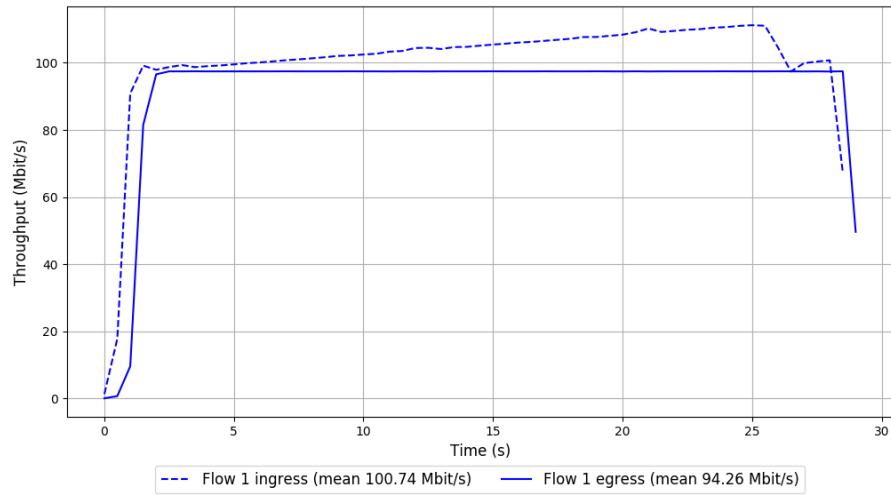


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-05-30 06:35:03
End at: 2019-05-30 06:35:33
Local clock offset: -7.039 ms
Remote clock offset: 0.123 ms

# Below is generated by plot.py at 2019-05-30 07:48:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 112.302 ms
Loss rate: 6.99%
-- Flow 1:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 112.302 ms
Loss rate: 6.99%
```

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

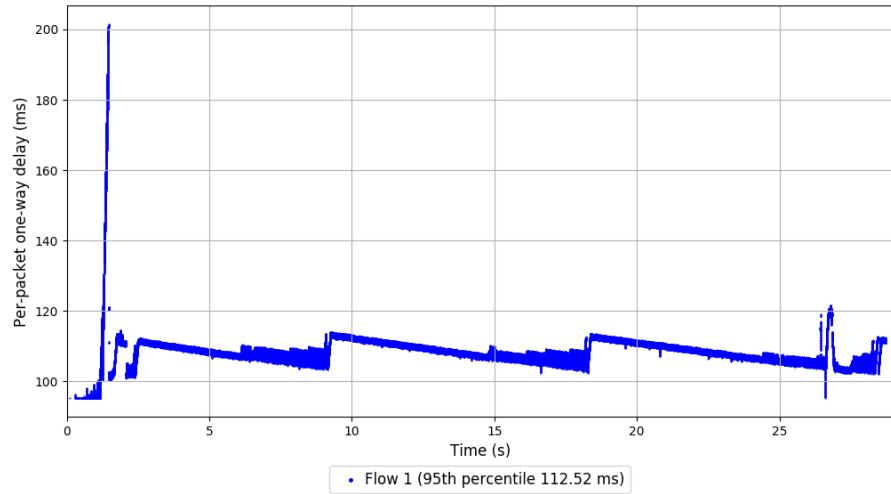
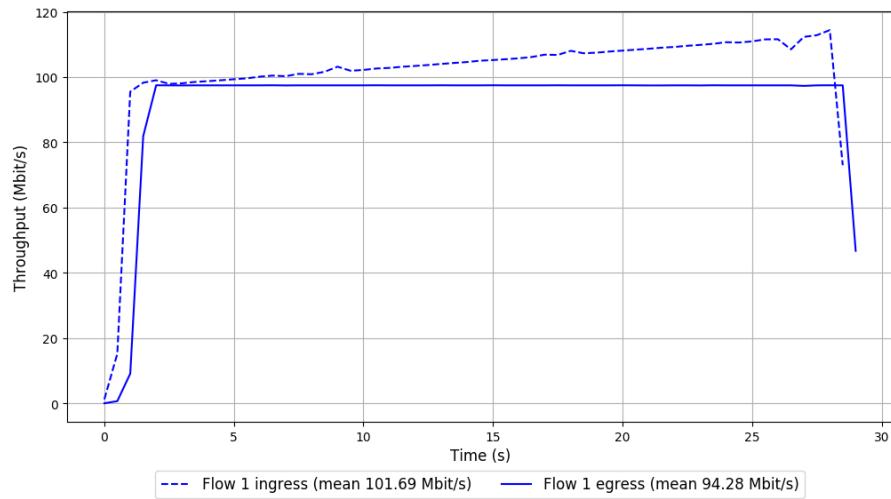


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-05-30 06:59:57
End at: 2019-05-30 07:00:27
Local clock offset: -7.979 ms
Remote clock offset: 6.191 ms

# Below is generated by plot.py at 2019-05-30 07:48:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 112.524 ms
Loss rate: 7.86%
-- Flow 1:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 112.524 ms
Loss rate: 7.86%
```

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

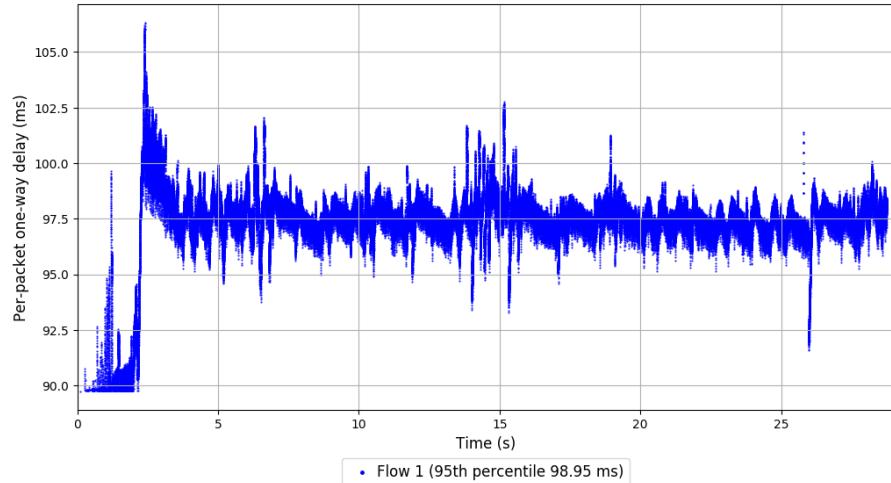
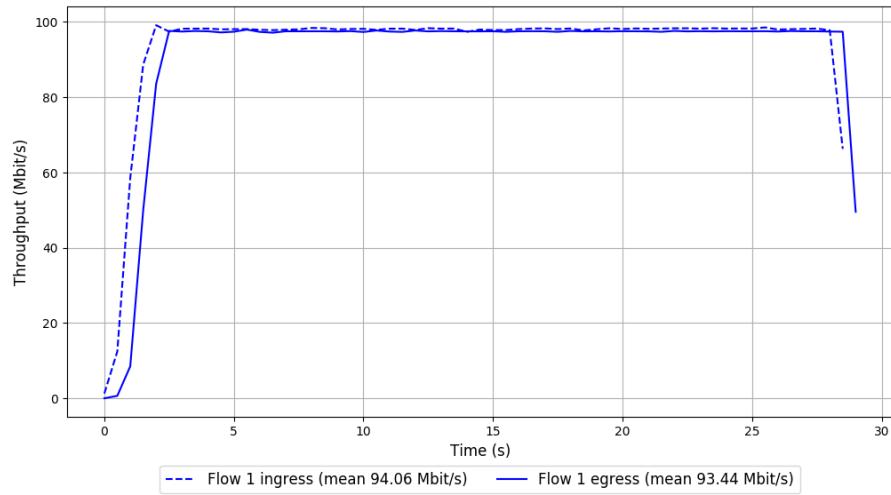


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-05-30 07:24:53
End at: 2019-05-30 07:25:23
Local clock offset: -6.003 ms
Remote clock offset: 6.597 ms

# Below is generated by plot.py at 2019-05-30 07:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.44 Mbit/s
95th percentile per-packet one-way delay: 98.949 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 93.44 Mbit/s
95th percentile per-packet one-way delay: 98.949 ms
Loss rate: 1.26%
```

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

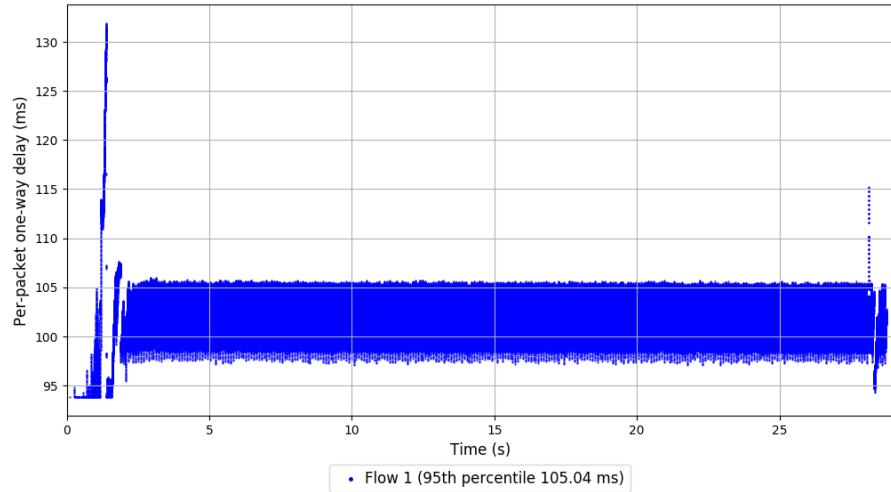
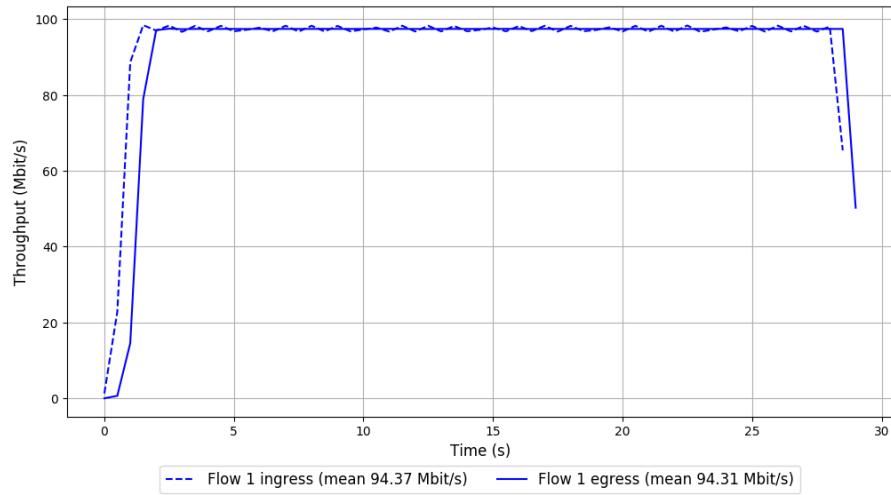


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-05-30 05:51:07
End at: 2019-05-30 05:51:37
Local clock offset: -6.787 ms
Remote clock offset: 3.692 ms

# Below is generated by plot.py at 2019-05-30 07:48:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 105.043 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 105.043 ms
Loss rate: 0.66%
```

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

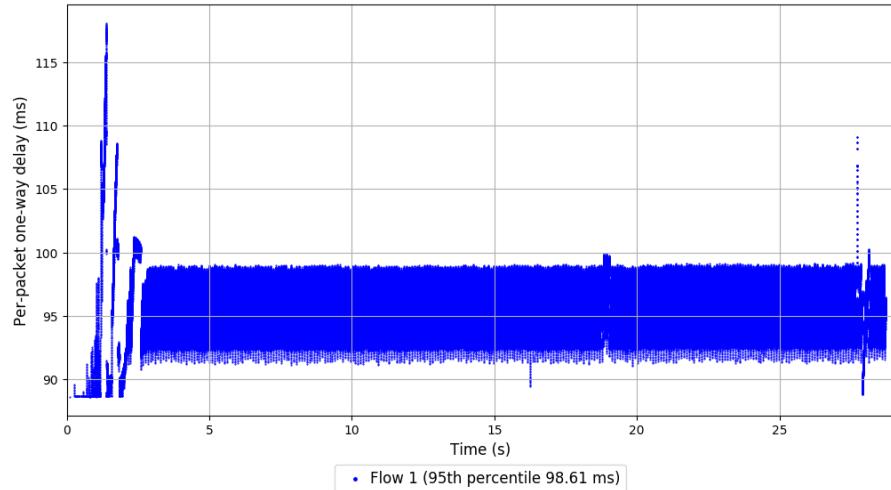
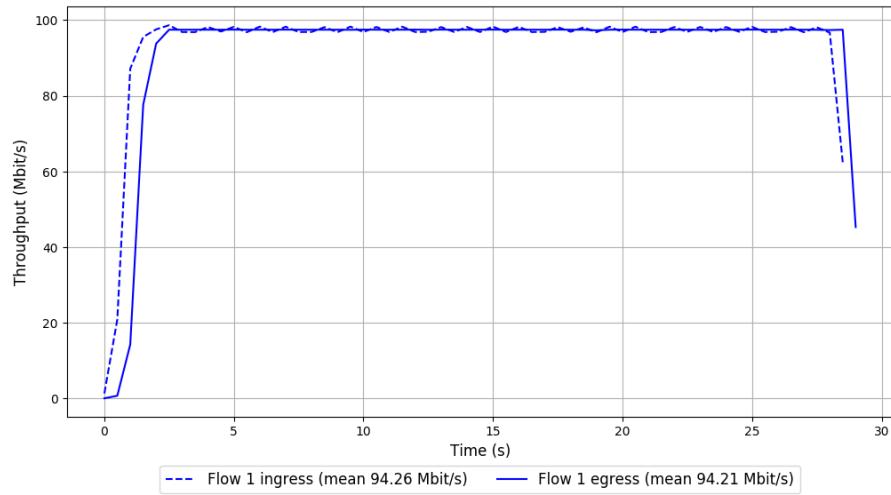


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-05-30 06:16:03
End at: 2019-05-30 06:16:33
Local clock offset: -6.966 ms
Remote clock offset: 2.955 ms

# Below is generated by plot.py at 2019-05-30 07:48:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.21 Mbit/s
95th percentile per-packet one-way delay: 98.613 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 94.21 Mbit/s
95th percentile per-packet one-way delay: 98.613 ms
Loss rate: 0.66%
```

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

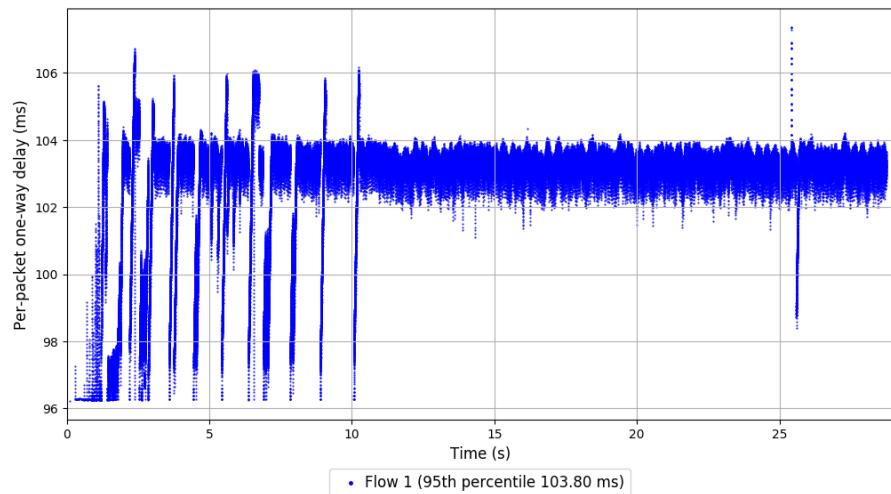
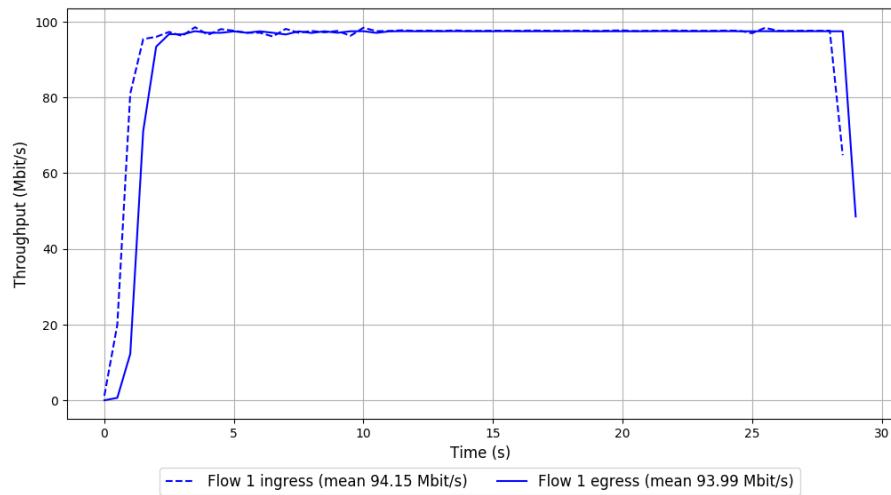


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-05-30 06:40:59
End at: 2019-05-30 06:41:29
Local clock offset: -6.533 ms
Remote clock offset: 5.06 ms

# Below is generated by plot.py at 2019-05-30 07:48:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.99 Mbit/s
95th percentile per-packet one-way delay: 103.799 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 93.99 Mbit/s
95th percentile per-packet one-way delay: 103.799 ms
Loss rate: 0.79%
```

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

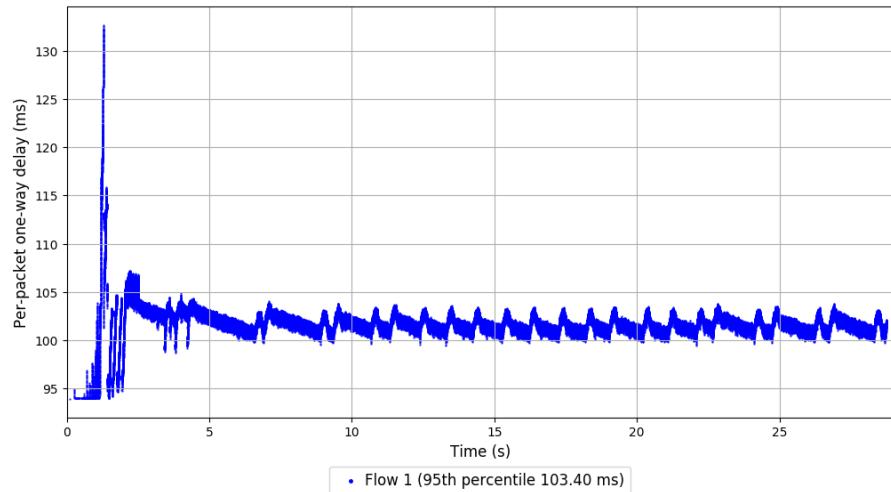
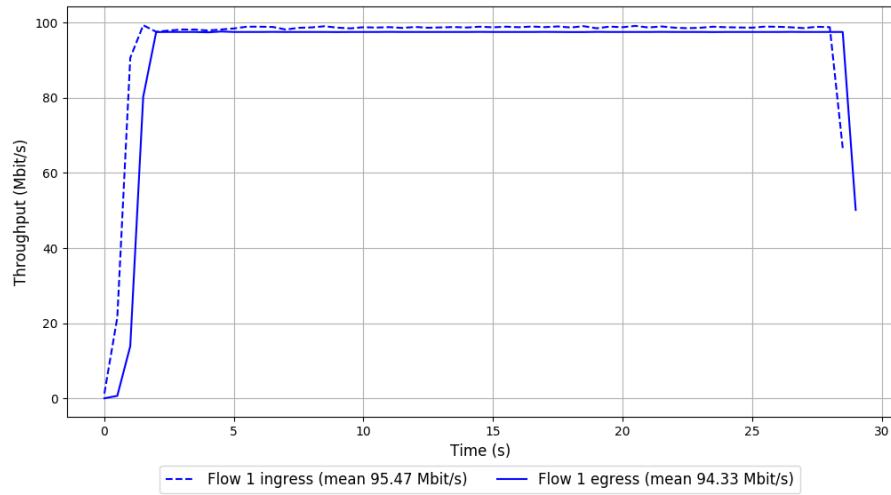


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-05-30 07:05:53
End at: 2019-05-30 07:06:23
Local clock offset: -8.217 ms
Remote clock offset: 1.269 ms

# Below is generated by plot.py at 2019-05-30 07:49:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.33 Mbit/s
95th percentile per-packet one-way delay: 103.400 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 94.33 Mbit/s
95th percentile per-packet one-way delay: 103.400 ms
Loss rate: 1.79%
```

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

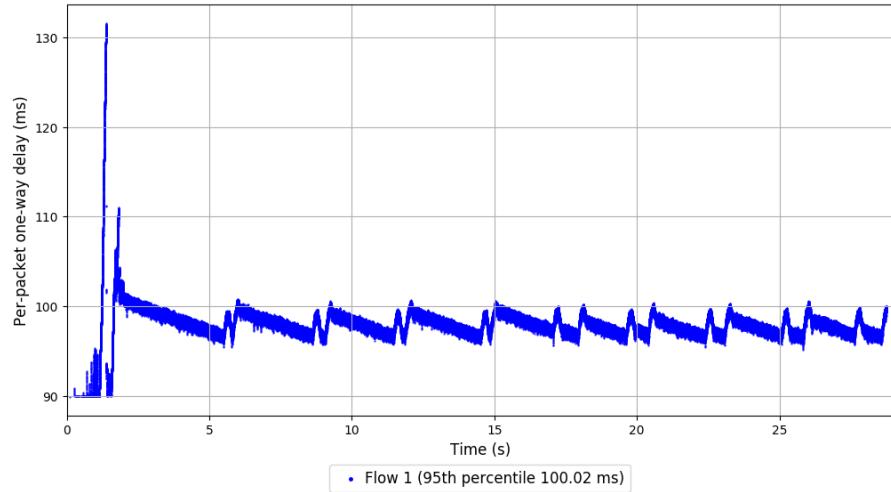
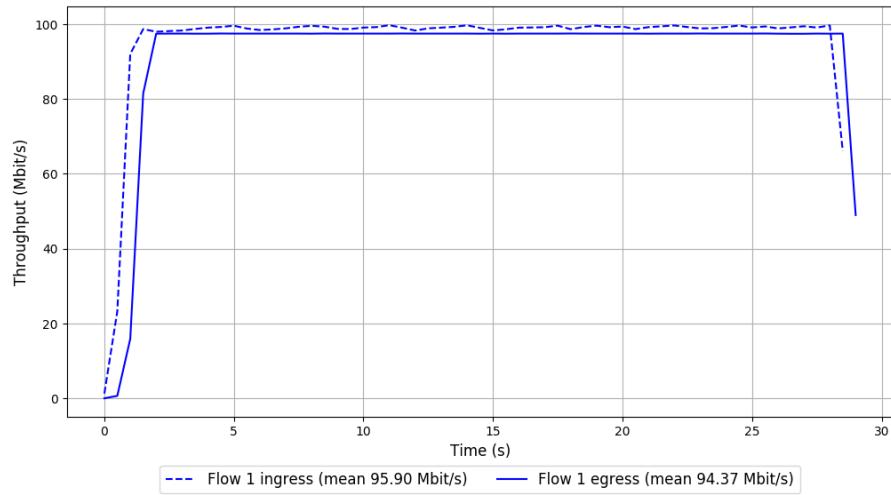


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-05-30 07:30:48
End at: 2019-05-30 07:31:19
Local clock offset: -5.738 ms
Remote clock offset: 6.357 ms

# Below is generated by plot.py at 2019-05-30 07:49:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 100.019 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 100.019 ms
Loss rate: 2.19%
```

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

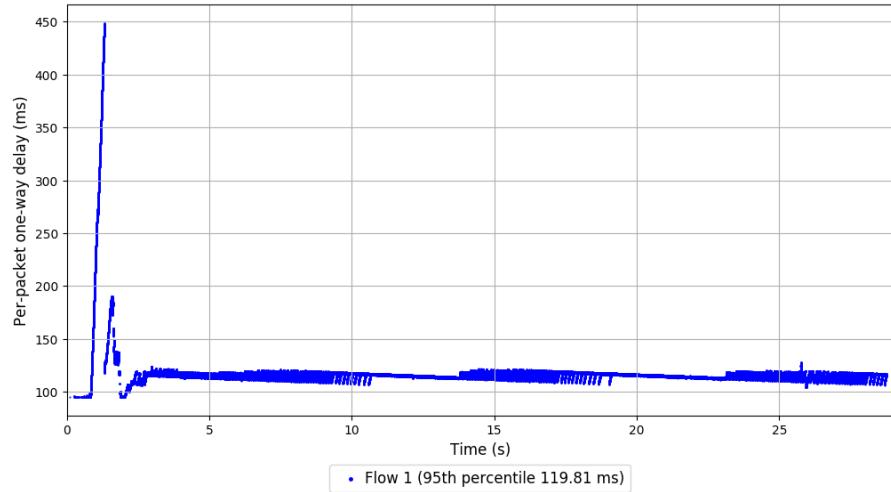
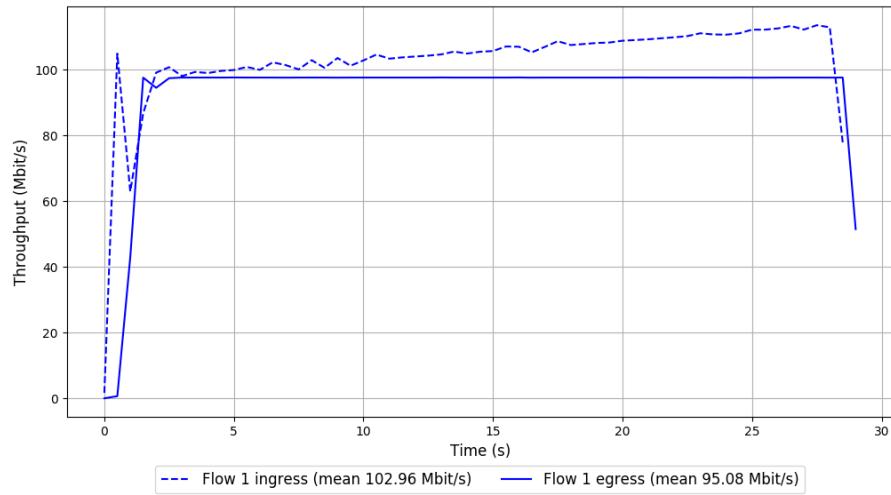


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-05-30 05:43:59
End at: 2019-05-30 05:44:29
Local clock offset: -5.061 ms
Remote clock offset: 8.828 ms

# Below is generated by plot.py at 2019-05-30 07:49:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 119.809 ms
Loss rate: 8.20%
-- Flow 1:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 119.809 ms
Loss rate: 8.20%
```

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

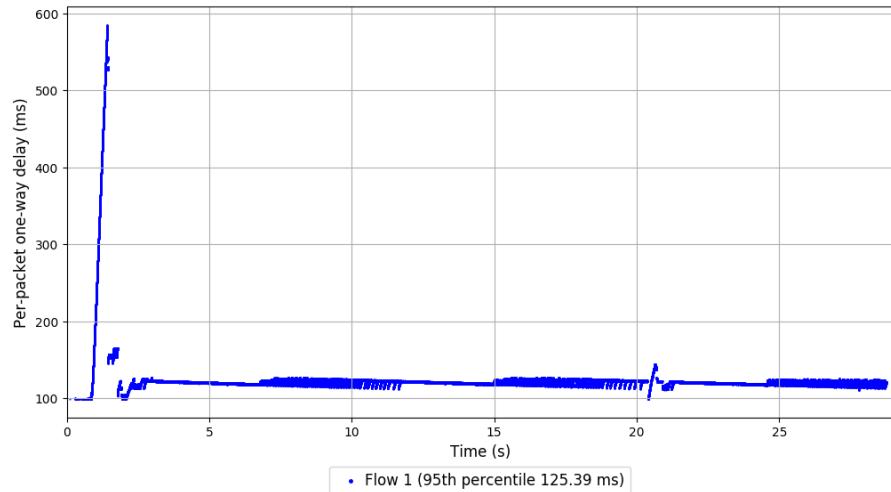
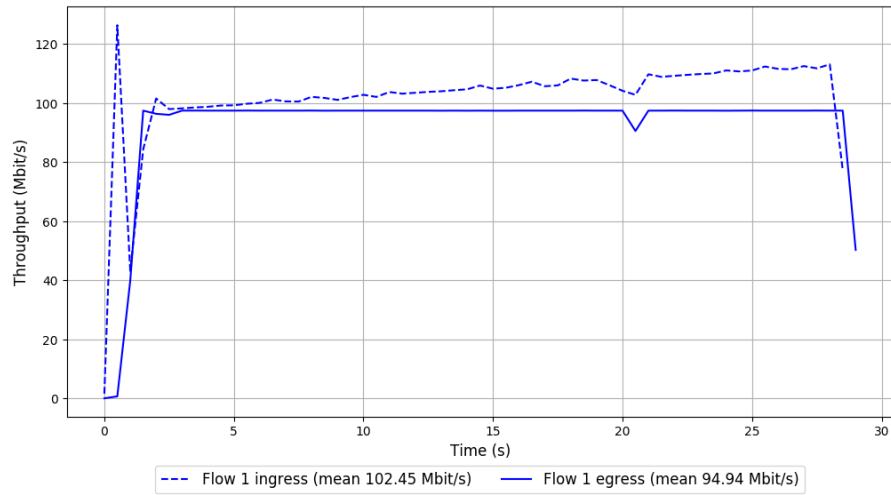


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-05-30 06:08:56
End at: 2019-05-30 06:09:26
Local clock offset: -9.157 ms
Remote clock offset: -2.708 ms

# Below is generated by plot.py at 2019-05-30 07:49:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.94 Mbit/s
95th percentile per-packet one-way delay: 125.389 ms
Loss rate: 7.91%
-- Flow 1:
Average throughput: 94.94 Mbit/s
95th percentile per-packet one-way delay: 125.389 ms
Loss rate: 7.91%
```

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

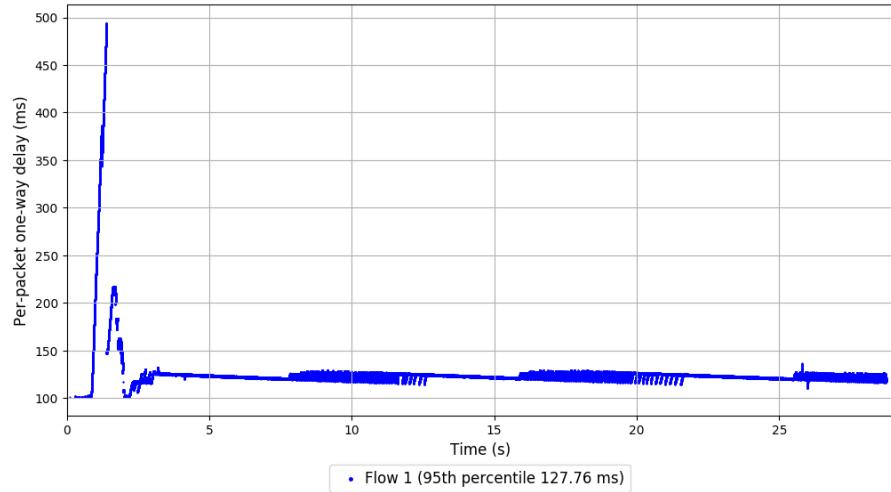
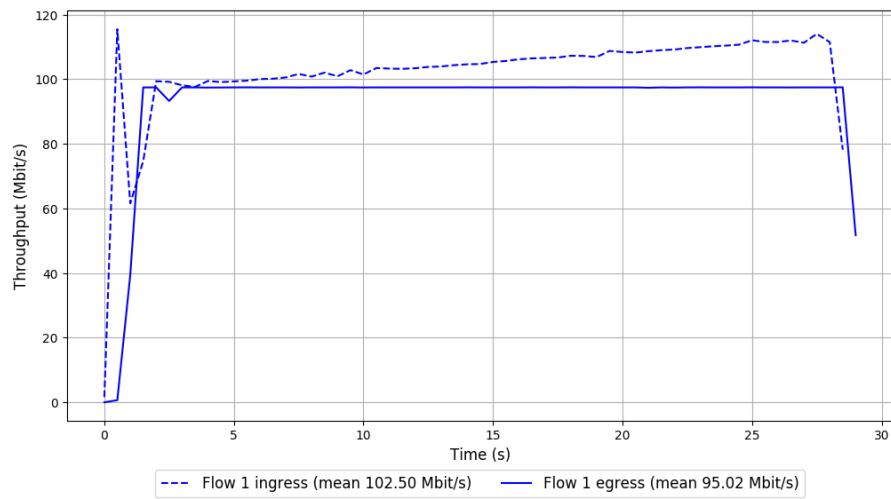


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-05-30 06:33:51
End at: 2019-05-30 06:34:21
Local clock offset: -6.32 ms
Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2019-05-30 07:49:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.02 Mbit/s
95th percentile per-packet one-way delay: 127.762 ms
Loss rate: 7.87%
-- Flow 1:
Average throughput: 95.02 Mbit/s
95th percentile per-packet one-way delay: 127.762 ms
Loss rate: 7.87%
```

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

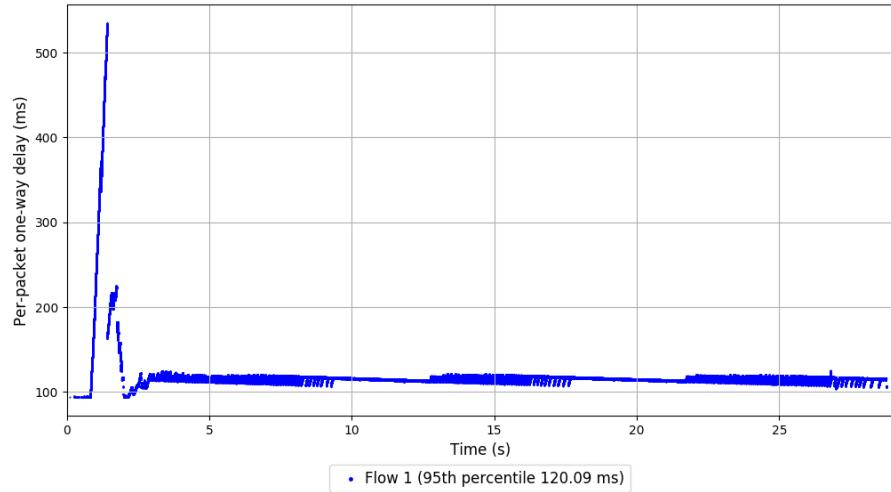
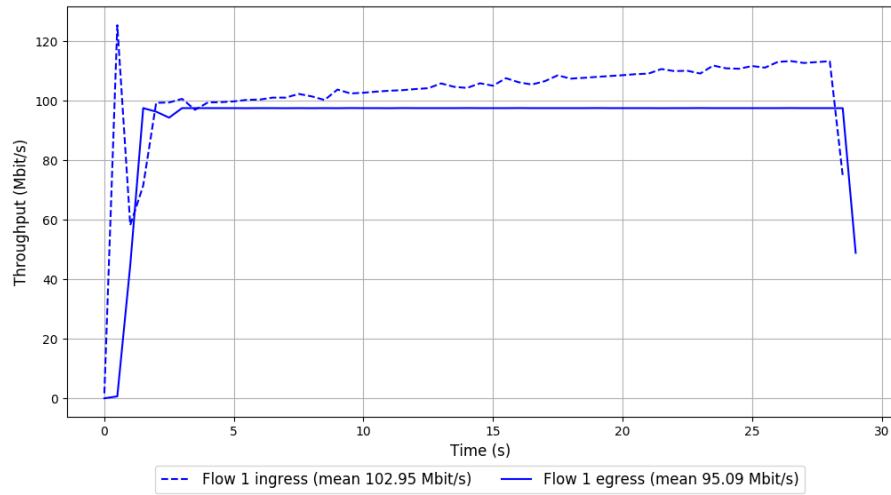


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-05-30 06:58:45
End at: 2019-05-30 06:59:15
Local clock offset: -8.214 ms
Remote clock offset: 1.05 ms

# Below is generated by plot.py at 2019-05-30 07:49:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 120.089 ms
Loss rate: 8.19%
-- Flow 1:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 120.089 ms
Loss rate: 8.19%
```

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

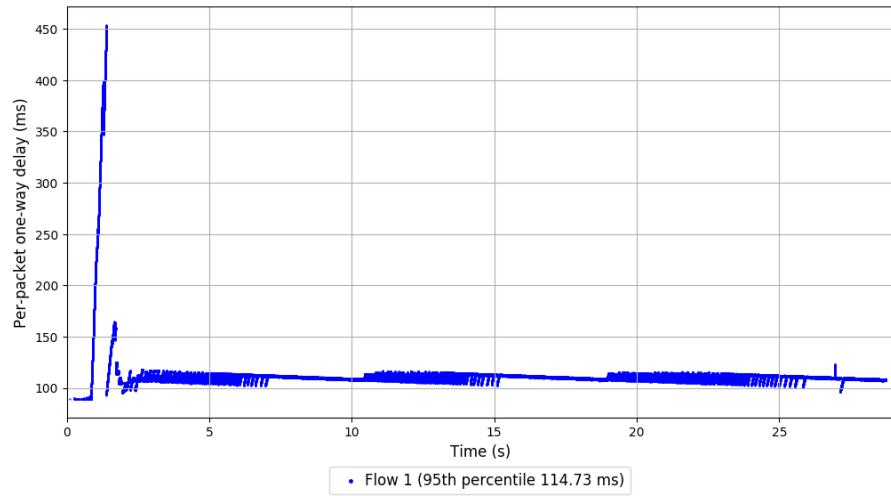
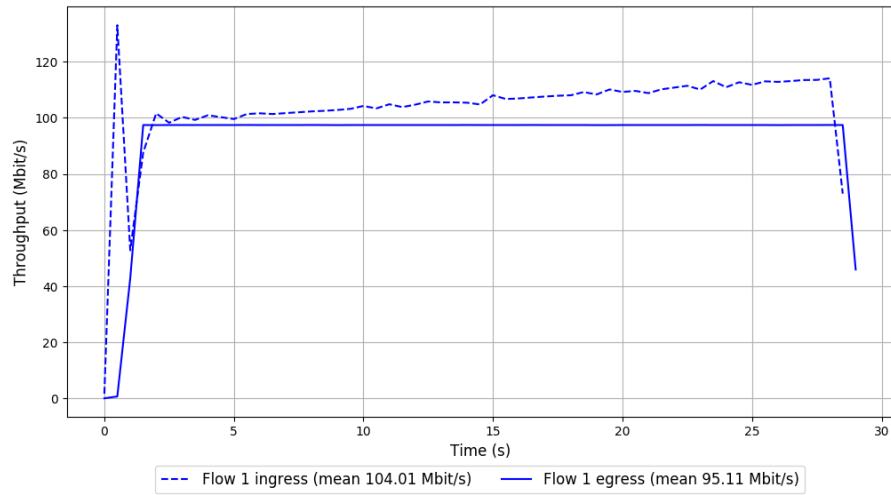


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-05-30 07:23:41
End at: 2019-05-30 07:24:11
Local clock offset: -6.601 ms
Remote clock offset: 6.157 ms

# Below is generated by plot.py at 2019-05-30 07:49:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 114.728 ms
Loss rate: 9.10%
-- Flow 1:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 114.728 ms
Loss rate: 9.10%
```

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

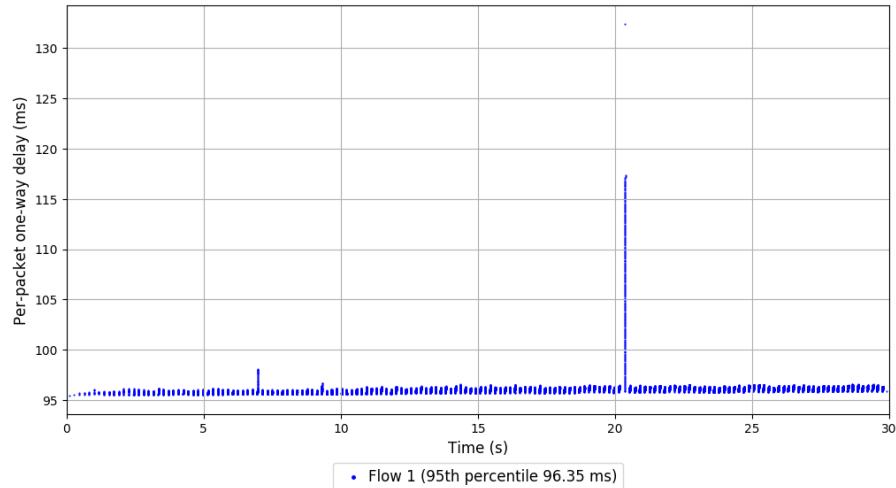
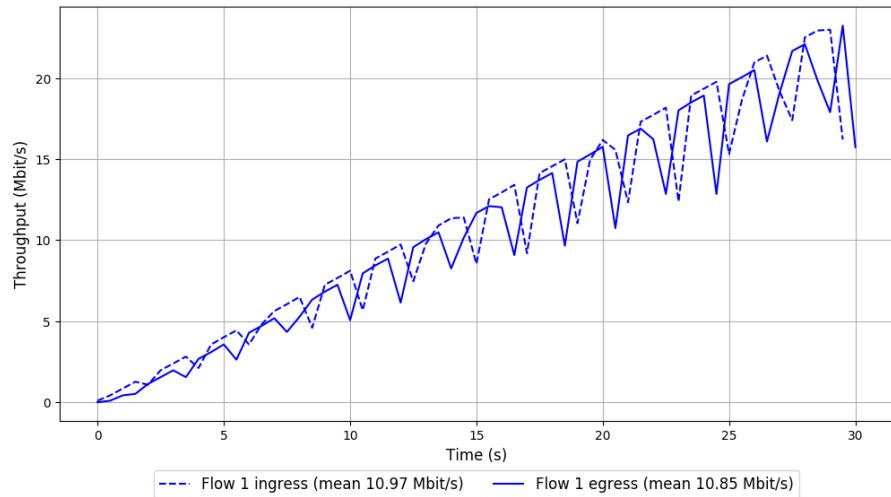


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-05-30 05:38:05
End at: 2019-05-30 05:38:35
Local clock offset: -2.069 ms
Remote clock offset: 23.337 ms

# Below is generated by plot.py at 2019-05-30 07:49:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.85 Mbit/s
95th percentile per-packet one-way delay: 96.354 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 10.85 Mbit/s
95th percentile per-packet one-way delay: 96.354 ms
Loss rate: 1.21%
```

## Run 1: Report of LEDBAT — Data Link

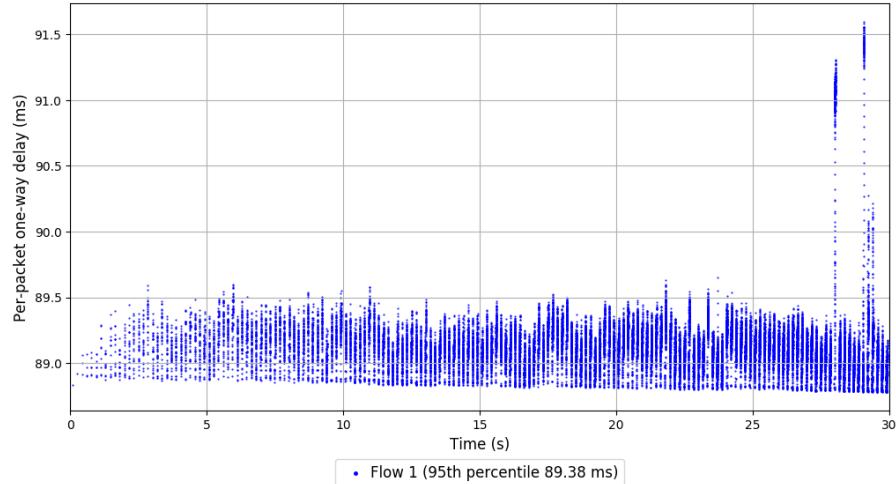
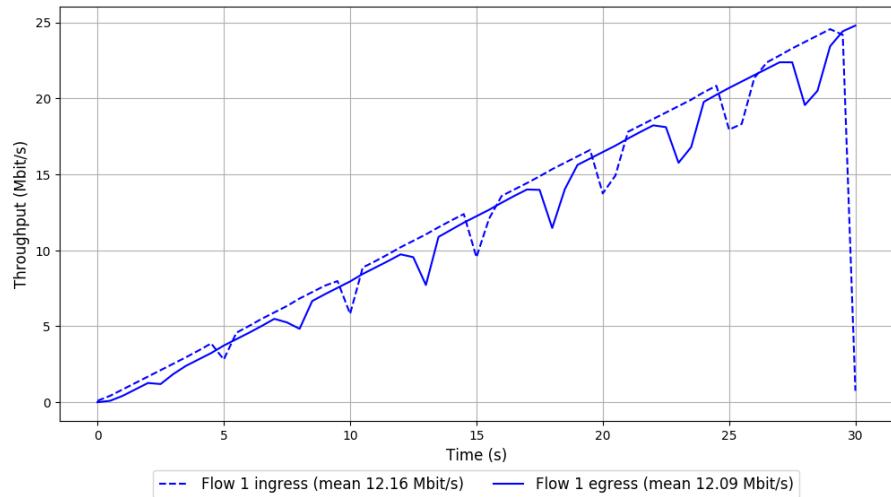


Run 2: Statistics of LEDBAT

```
Start at: 2019-05-30 06:03:02
End at: 2019-05-30 06:03:32
Local clock offset: -9.246 ms
Remote clock offset: 2.528 ms

# Below is generated by plot.py at 2019-05-30 07:49:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 89.377 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 89.377 ms
Loss rate: 1.15%
```

## Run 2: Report of LEDBAT — Data Link

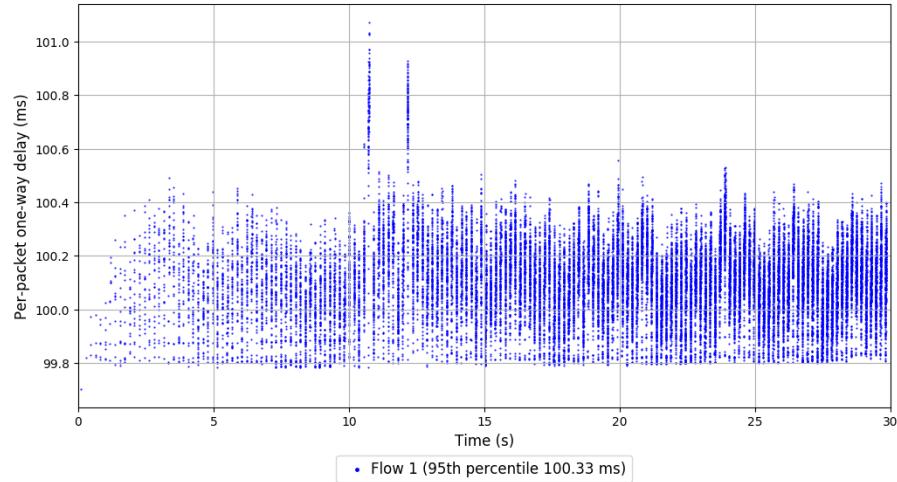
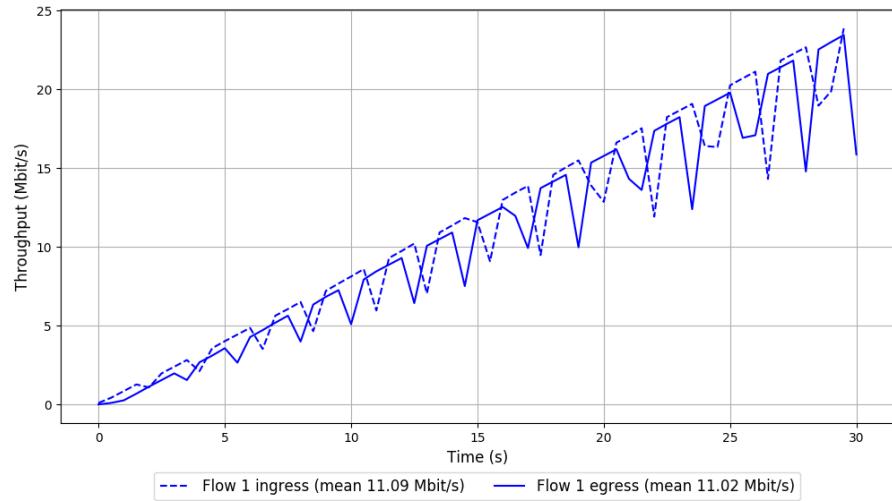


Run 3: Statistics of LEDBAT

```
Start at: 2019-05-30 06:27:58
End at: 2019-05-30 06:28:28
Local clock offset: -6.539 ms
Remote clock offset: 0.889 ms

# Below is generated by plot.py at 2019-05-30 07:49:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 100.332 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 100.332 ms
Loss rate: 1.21%
```

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

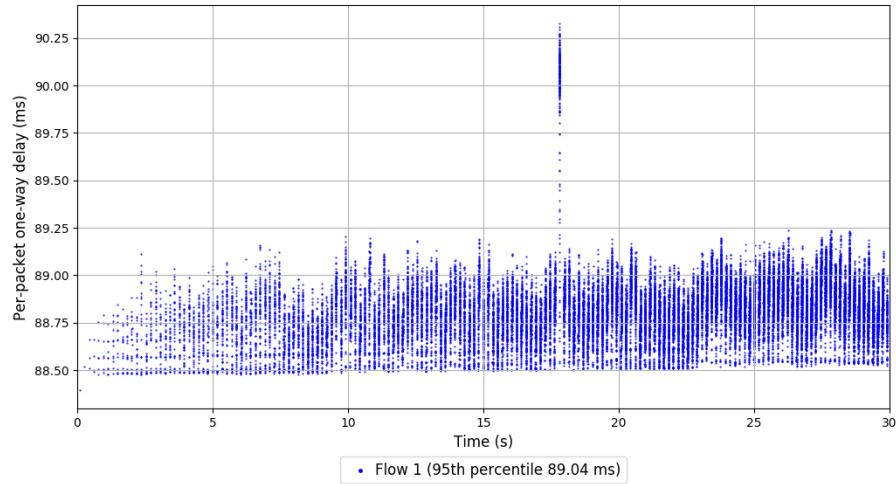
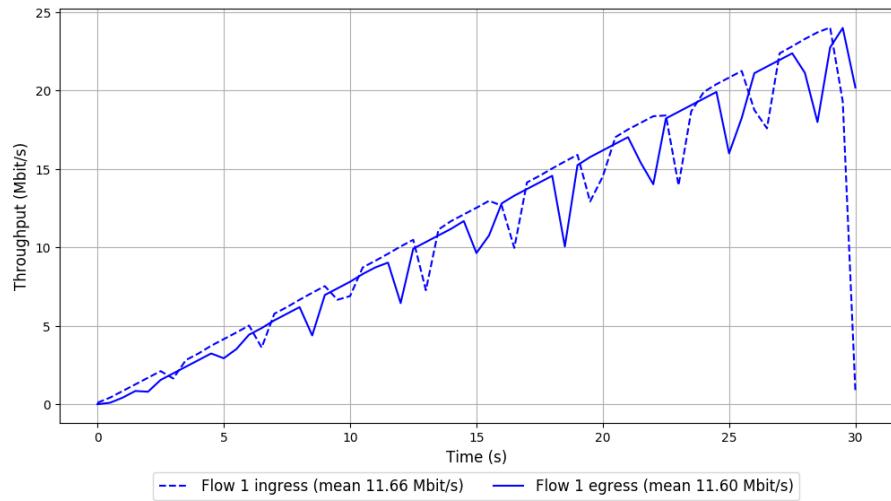


Run 4: Statistics of LEDBAT

```
Start at: 2019-05-30 06:52:52
End at: 2019-05-30 06:53:22
Local clock offset: -7.989 ms
Remote clock offset: 5.889 ms

# Below is generated by plot.py at 2019-05-30 07:49:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 89.039 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 89.039 ms
Loss rate: 1.12%
```

## Run 4: Report of LEDBAT — Data Link

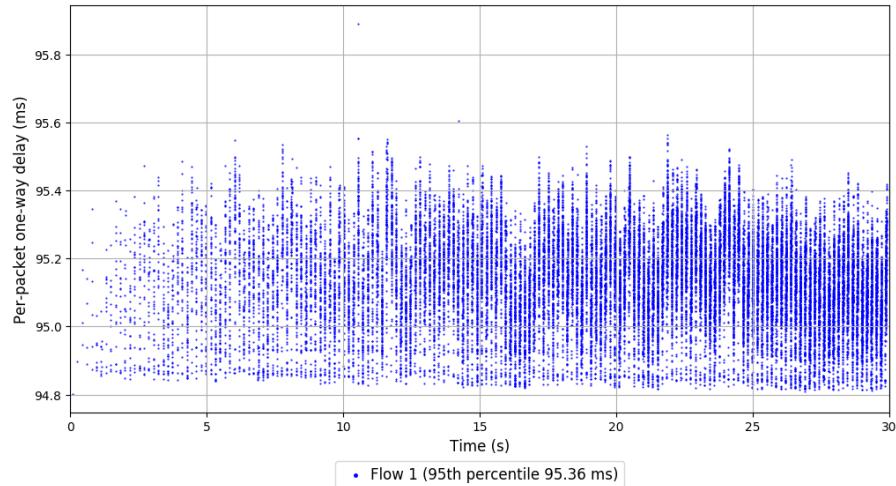
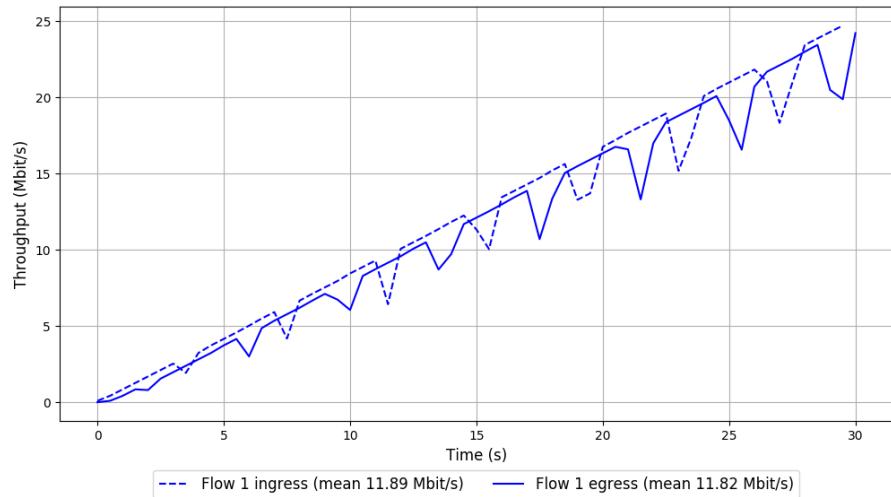


Run 5: Statistics of LEDBAT

```
Start at: 2019-05-30 07:17:47
End at: 2019-05-30 07:18:17
Local clock offset: -6.341 ms
Remote clock offset: 1.53 ms

# Below is generated by plot.py at 2019-05-30 07:49:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 95.355 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 95.355 ms
Loss rate: 1.16%
```

Run 5: Report of LEDBAT — Data Link

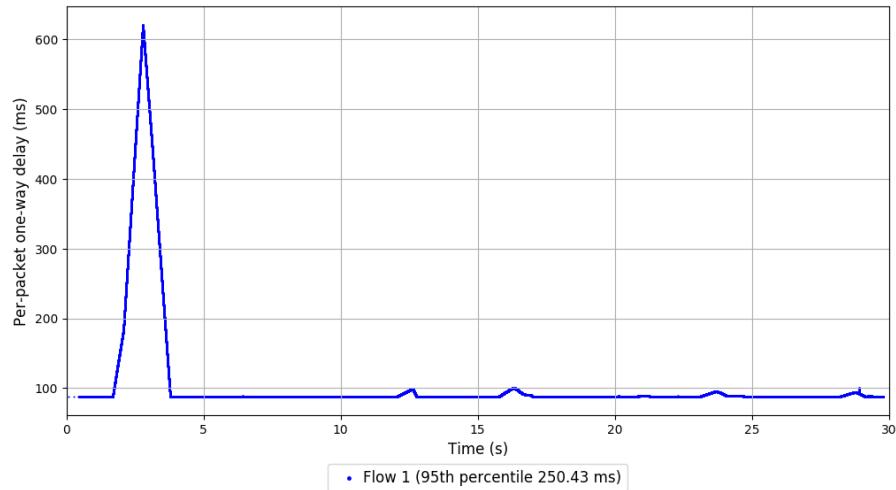
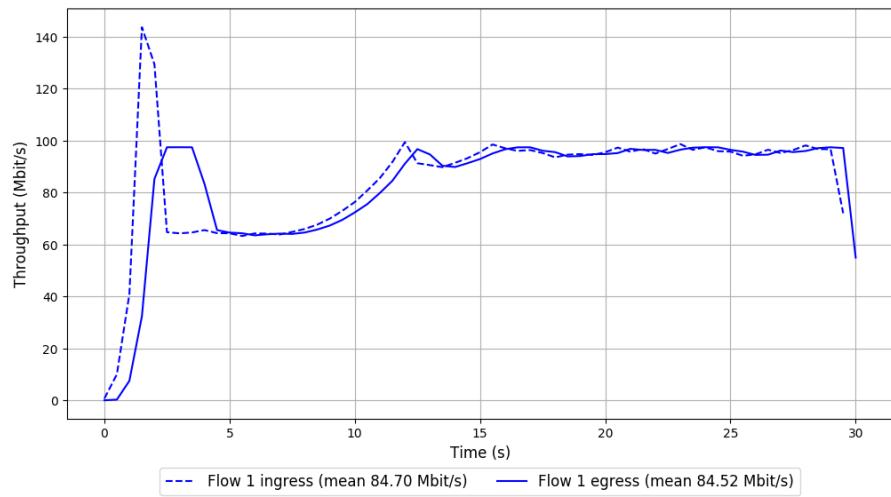


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-05-30 05:48:49
End at: 2019-05-30 05:49:19
Local clock offset: -7.009 ms
Remote clock offset: 10.112 ms

# Below is generated by plot.py at 2019-05-30 07:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.52 Mbit/s
95th percentile per-packet one-way delay: 250.434 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 84.52 Mbit/s
95th percentile per-packet one-way delay: 250.434 ms
Loss rate: 0.79%
```

Run 1: Report of PCC-Allegro — Data Link

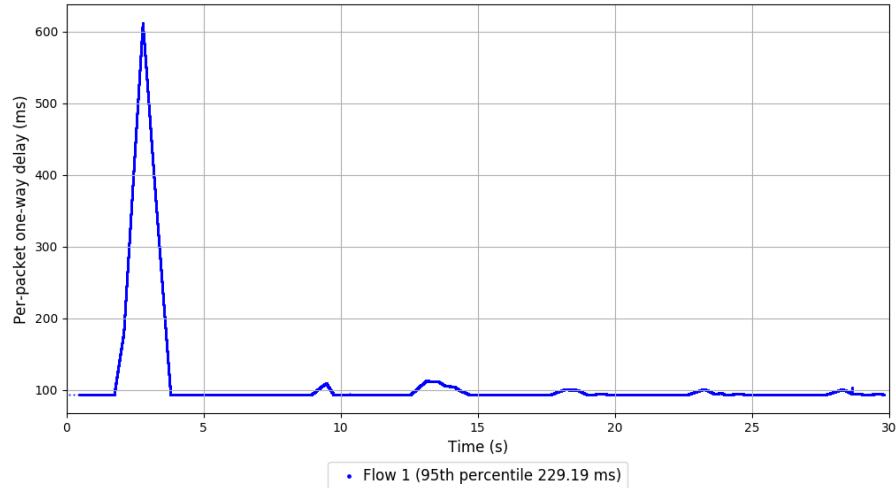
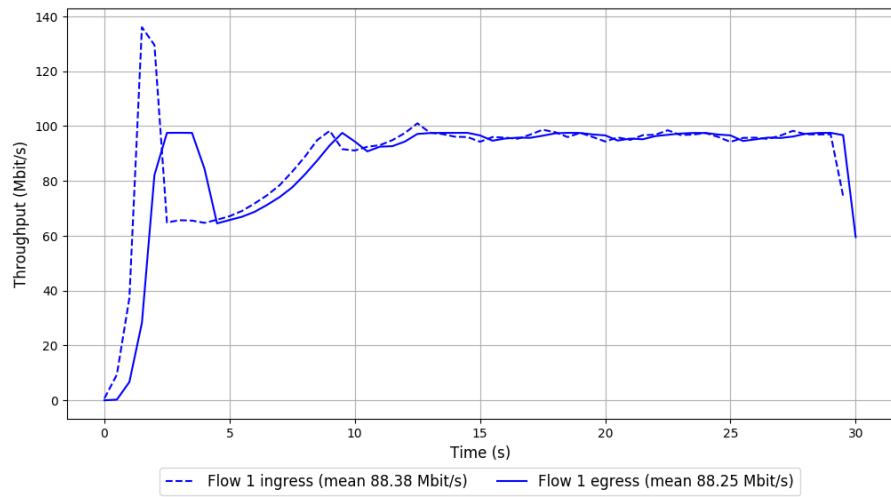


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-05-30 06:13:45
End at: 2019-05-30 06:14:15
Local clock offset: -8.121 ms
Remote clock offset: -3.352 ms

# Below is generated by plot.py at 2019-05-30 07:50:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.25 Mbit/s
95th percentile per-packet one-way delay: 229.192 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 88.25 Mbit/s
95th percentile per-packet one-way delay: 229.192 ms
Loss rate: 0.72%
```

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

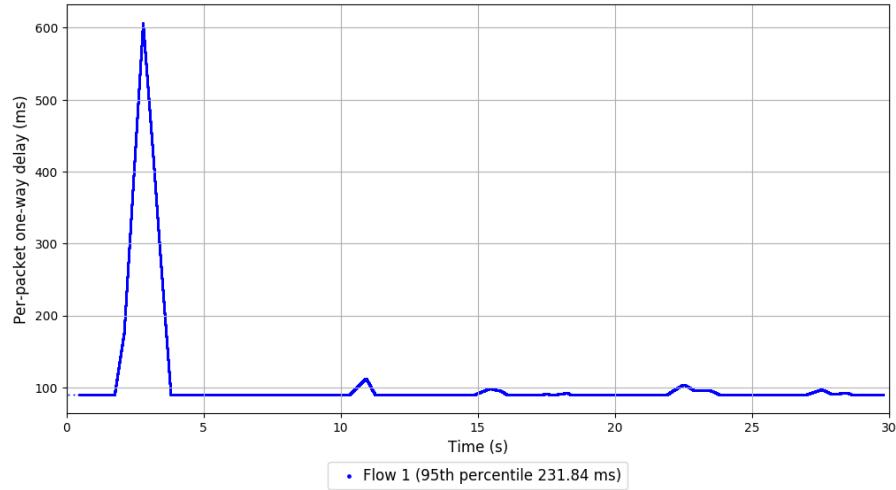
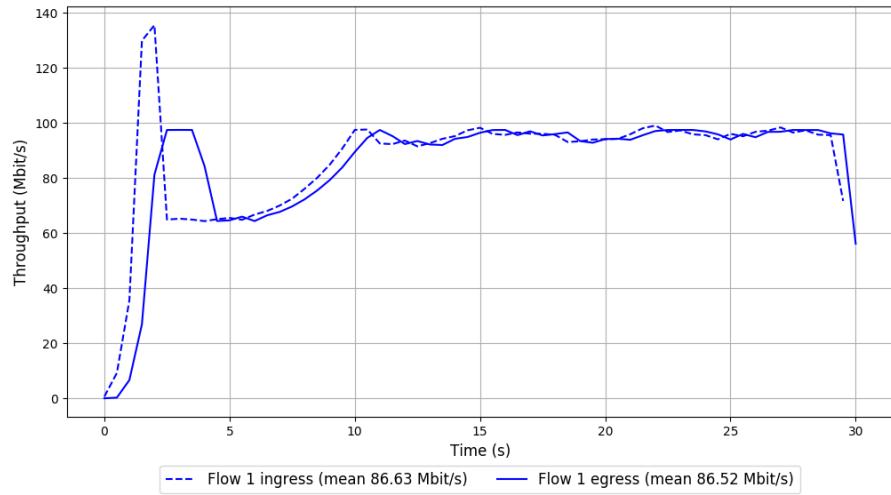


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-05-30 06:38:40
End at: 2019-05-30 06:39:10
Local clock offset: -6.618 ms
Remote clock offset: 5.114 ms

# Below is generated by plot.py at 2019-05-30 07:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.52 Mbit/s
95th percentile per-packet one-way delay: 231.843 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 86.52 Mbit/s
95th percentile per-packet one-way delay: 231.843 ms
Loss rate: 0.71%
```

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

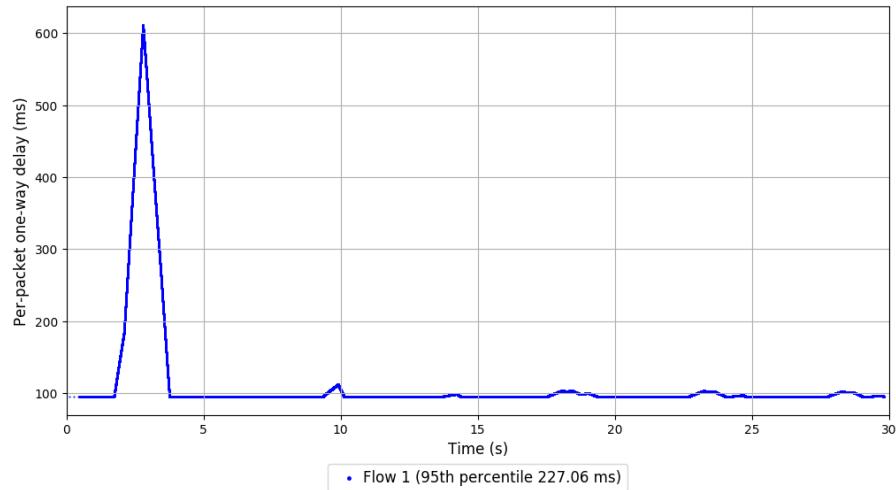
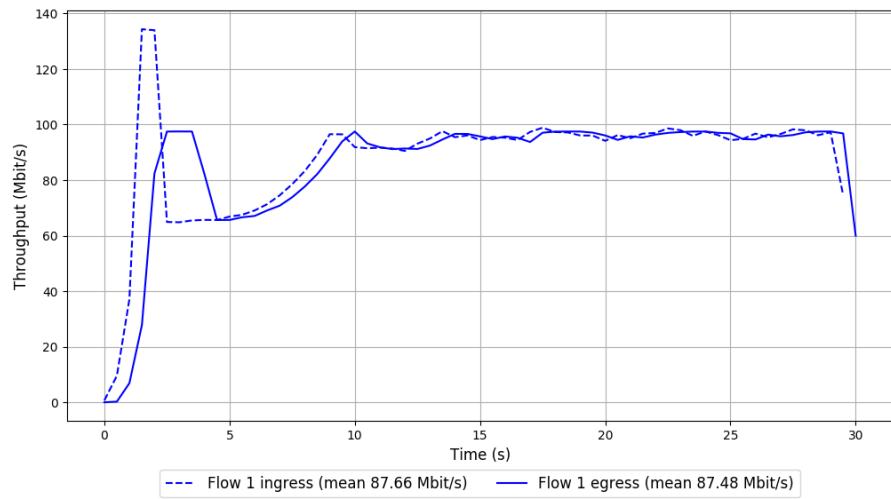


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-05-30 07:03:35
End at: 2019-05-30 07:04:05
Local clock offset: -7.354 ms
Remote clock offset: 1.151 ms

# Below is generated by plot.py at 2019-05-30 07:50:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.48 Mbit/s
95th percentile per-packet one-way delay: 227.057 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 87.48 Mbit/s
95th percentile per-packet one-way delay: 227.057 ms
Loss rate: 0.78%
```

Run 4: Report of PCC-Allegro — Data Link

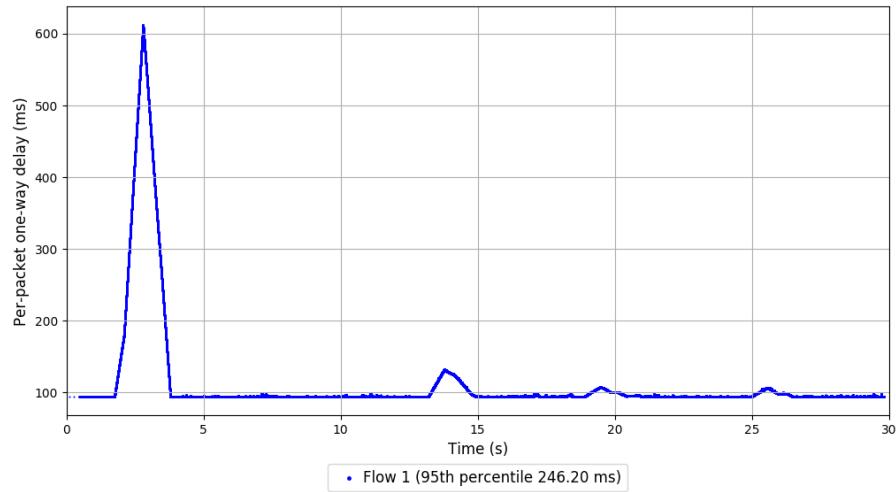
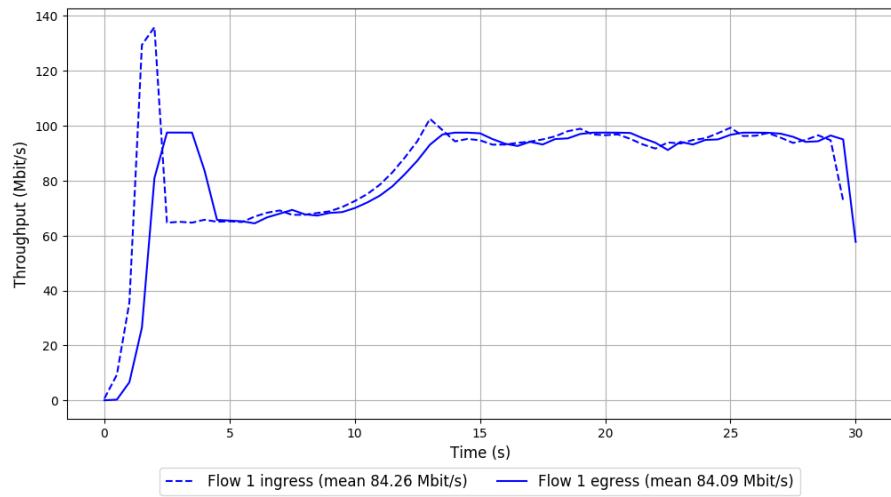


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-05-30 07:28:30
End at: 2019-05-30 07:29:00
Local clock offset: -6.464 ms
Remote clock offset: 1.397 ms

# Below is generated by plot.py at 2019-05-30 07:50:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.09 Mbit/s
95th percentile per-packet one-way delay: 246.197 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 84.09 Mbit/s
95th percentile per-packet one-way delay: 246.197 ms
Loss rate: 0.77%
```

Run 5: Report of PCC-Allegro — Data Link

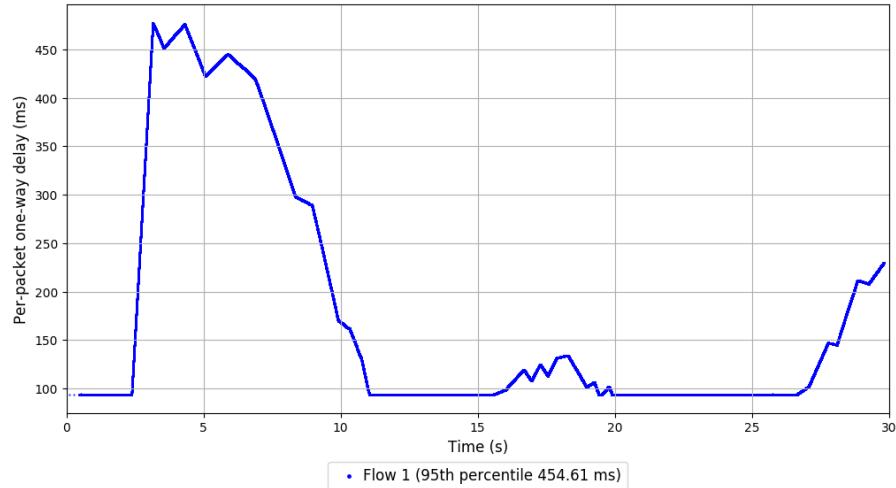
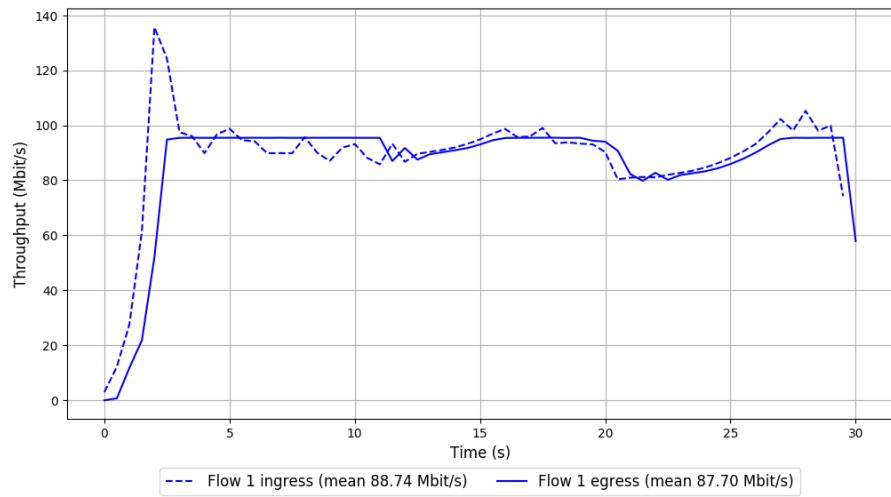


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-05-30 05:46:24
End at: 2019-05-30 05:46:54
Local clock offset: -5.907 ms
Remote clock offset: 7.019 ms

# Below is generated by plot.py at 2019-05-30 07:51:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.70 Mbit/s
95th percentile per-packet one-way delay: 454.610 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 87.70 Mbit/s
95th percentile per-packet one-way delay: 454.610 ms
Loss rate: 1.75%
```

Run 1: Report of PCC-Expr — Data Link

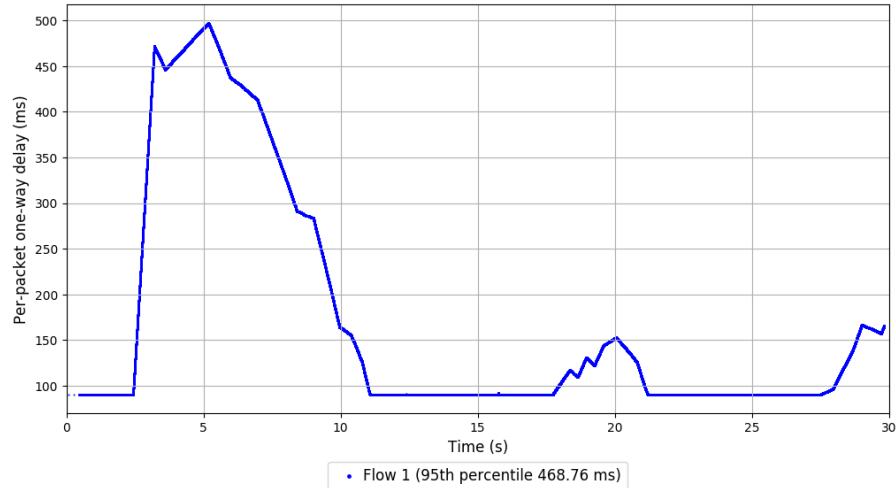
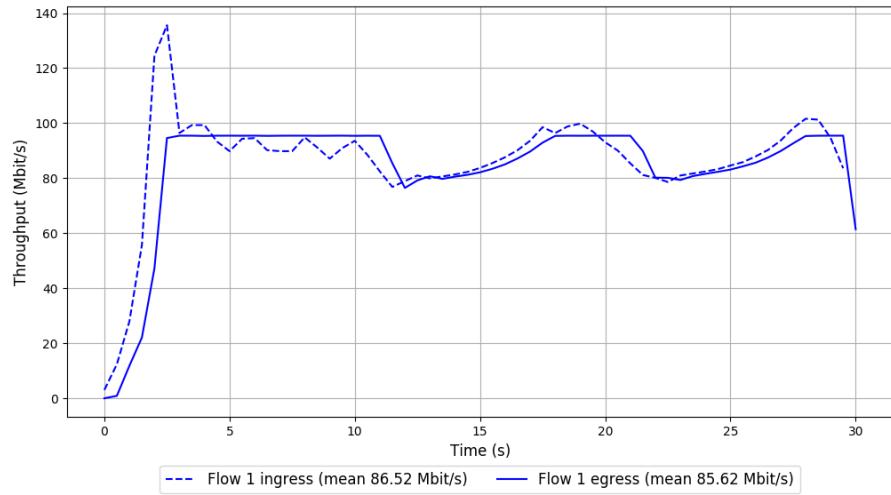


Run 2: Statistics of PCC-Expr

```
Start at: 2019-05-30 06:11:20
End at: 2019-05-30 06:11:50
Local clock offset: -8.614 ms
Remote clock offset: -0.693 ms

# Below is generated by plot.py at 2019-05-30 07:51:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.62 Mbit/s
95th percentile per-packet one-way delay: 468.765 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 85.62 Mbit/s
95th percentile per-packet one-way delay: 468.765 ms
Loss rate: 1.62%
```

Run 2: Report of PCC-Expr — Data Link

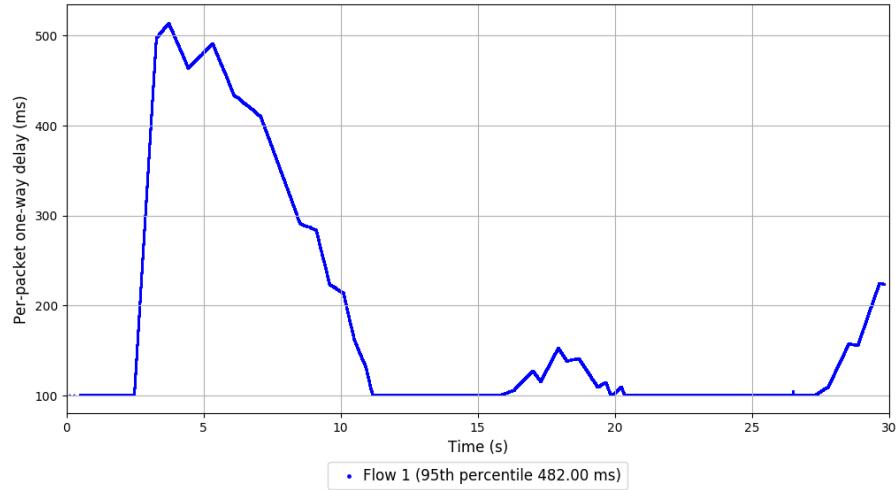
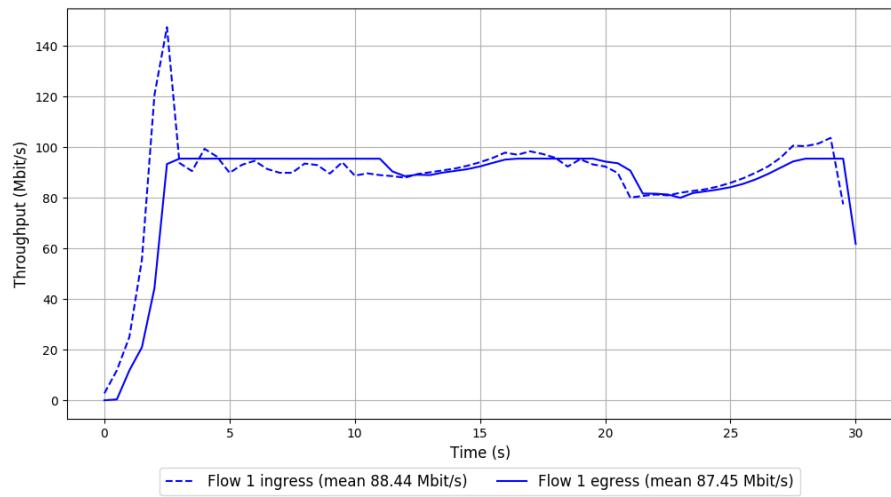


Run 3: Statistics of PCC-Expr

```
Start at: 2019-05-30 06:36:15
End at: 2019-05-30 06:36:45
Local clock offset: -6.312 ms
Remote clock offset: 0.14 ms

# Below is generated by plot.py at 2019-05-30 07:51:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.45 Mbit/s
95th percentile per-packet one-way delay: 482.001 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 87.45 Mbit/s
95th percentile per-packet one-way delay: 482.001 ms
Loss rate: 1.71%
```

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

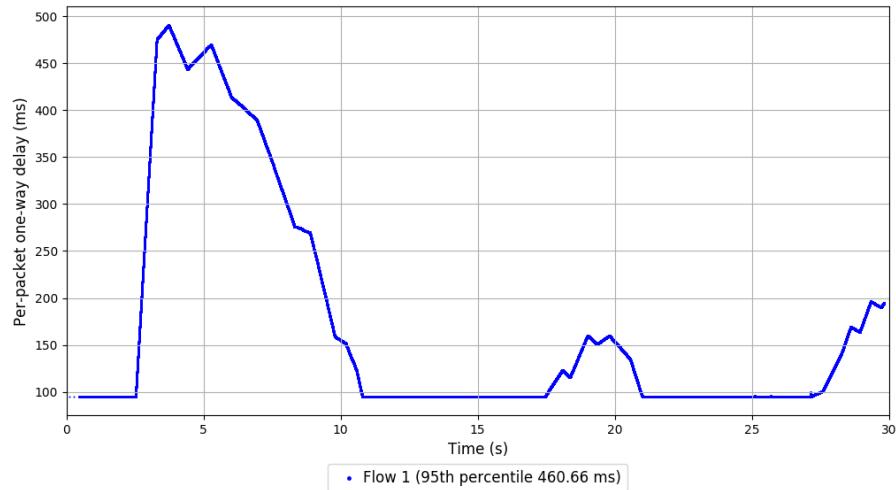
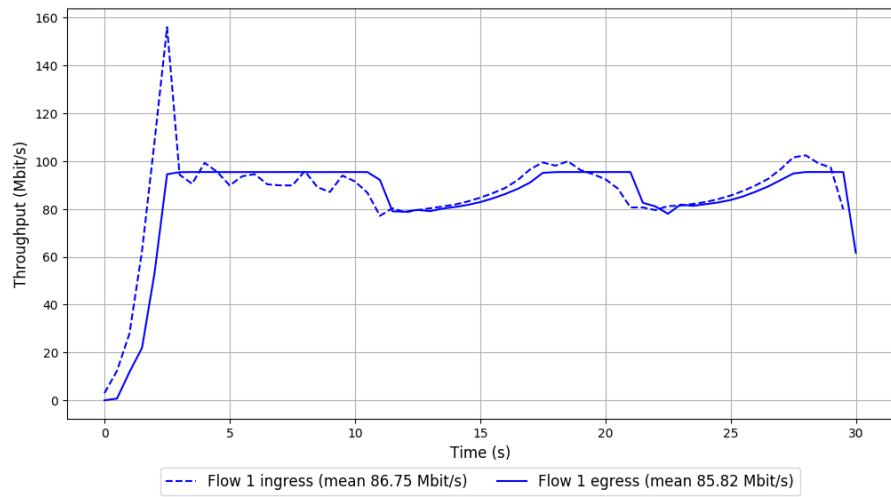


Run 4: Statistics of PCC-Expr

```
Start at: 2019-05-30 07:01:09
End at: 2019-05-30 07:01:39
Local clock offset: -7.465 ms
Remote clock offset: 1.151 ms

# Below is generated by plot.py at 2019-05-30 07:52:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.82 Mbit/s
95th percentile per-packet one-way delay: 460.663 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 85.82 Mbit/s
95th percentile per-packet one-way delay: 460.663 ms
Loss rate: 1.64%
```

Run 4: Report of PCC-Expr — Data Link

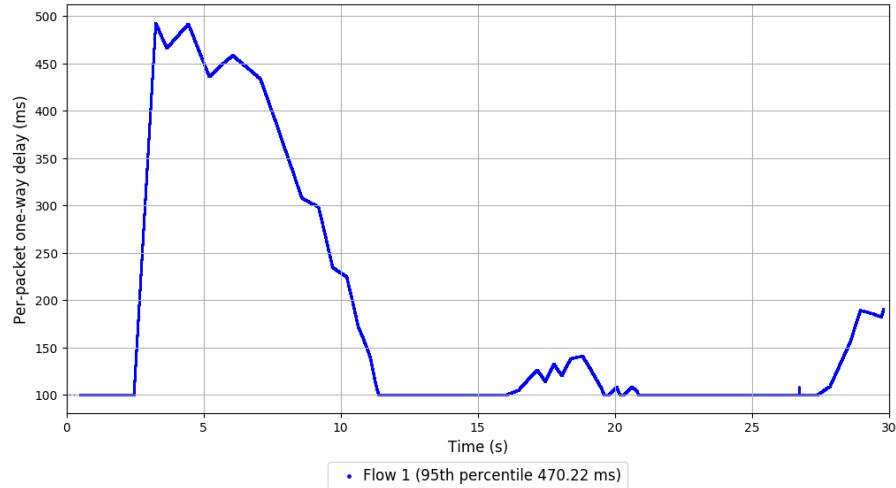
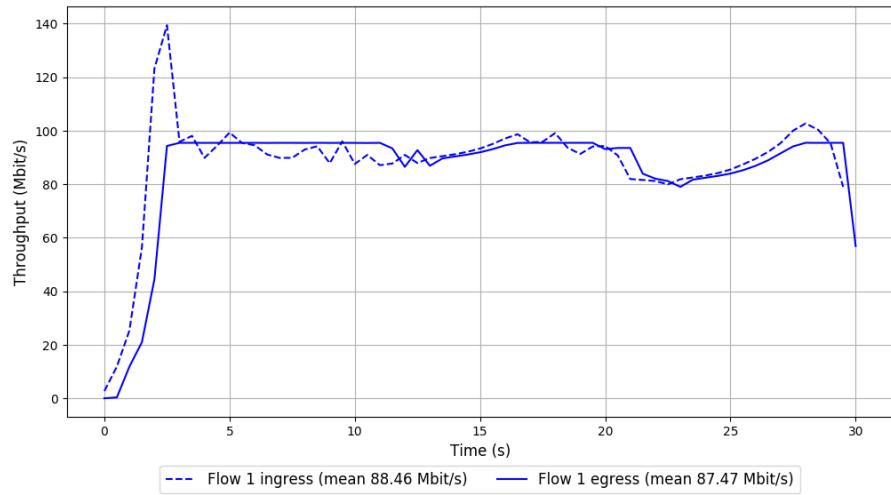


Run 5: Statistics of PCC-Expr

```
Start at: 2019-05-30 07:26:05
End at: 2019-05-30 07:26:35
Local clock offset: -6.713 ms
Remote clock offset: 1.172 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.47 Mbit/s
95th percentile per-packet one-way delay: 470.216 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 87.47 Mbit/s
95th percentile per-packet one-way delay: 470.216 ms
Loss rate: 1.71%
```

Run 5: Report of PCC-Expr — Data Link

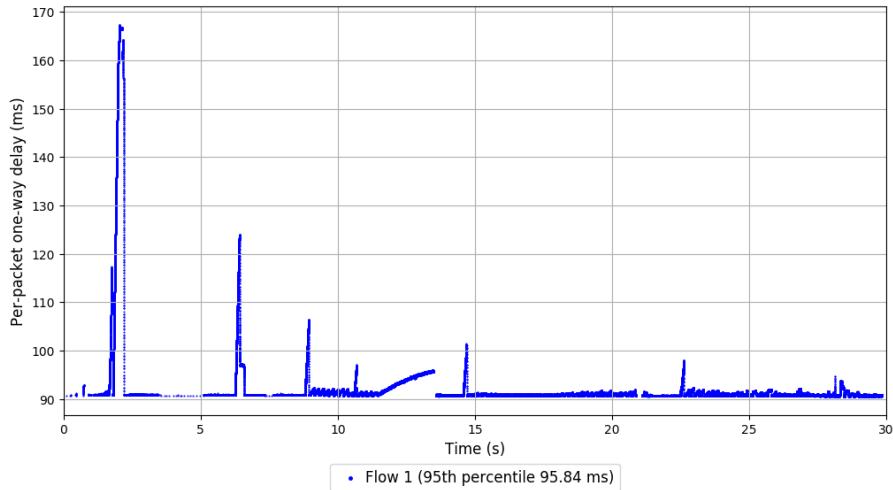
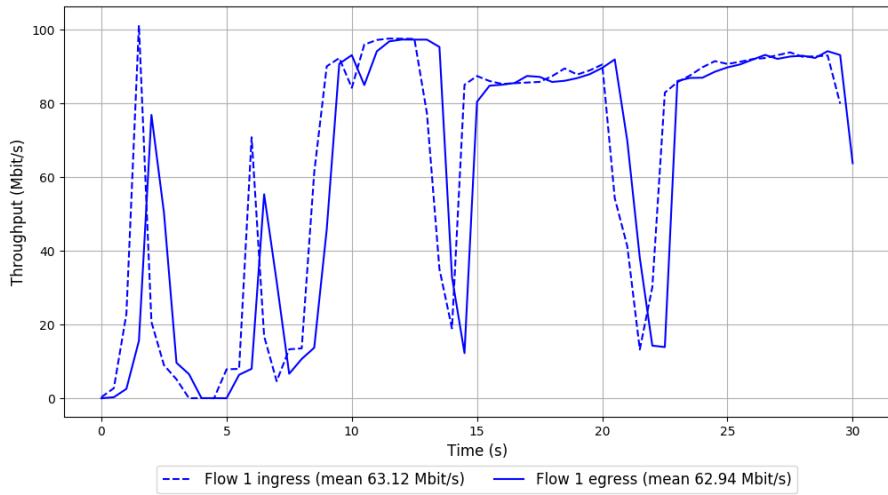


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-05-30 05:47:38
End at: 2019-05-30 05:48:08
Local clock offset: -6.774 ms
Remote clock offset: 8.529 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.94 Mbit/s
95th percentile per-packet one-way delay: 95.845 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 62.94 Mbit/s
95th percentile per-packet one-way delay: 95.845 ms
Loss rate: 0.86%
```

Run 1: Report of QUIC Cubic — Data Link

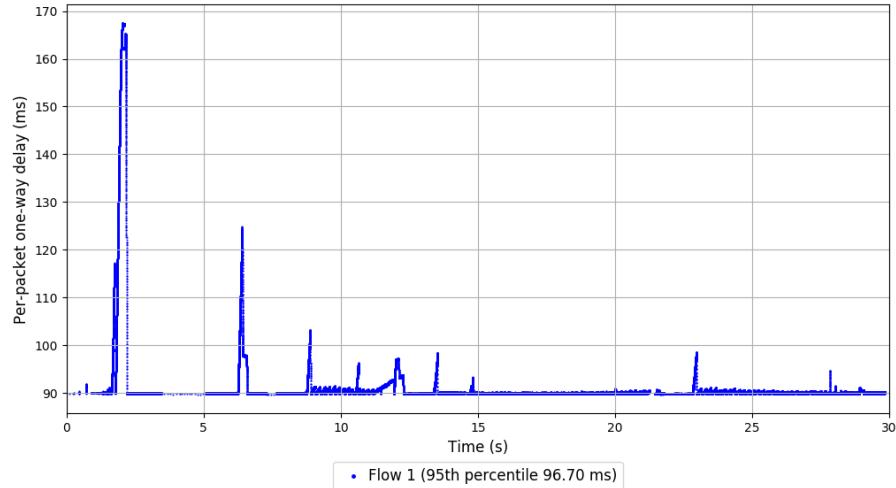
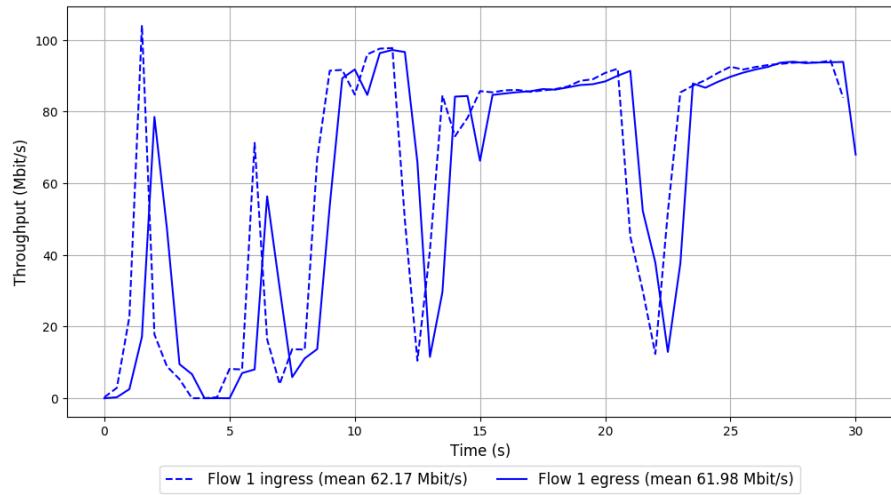


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-05-30 06:12:34
End at: 2019-05-30 06:13:04
Local clock offset: -7.556 ms
Remote clock offset: 0.419 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.98 Mbit/s
95th percentile per-packet one-way delay: 96.705 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 61.98 Mbit/s
95th percentile per-packet one-way delay: 96.705 ms
Loss rate: 0.88%
```

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

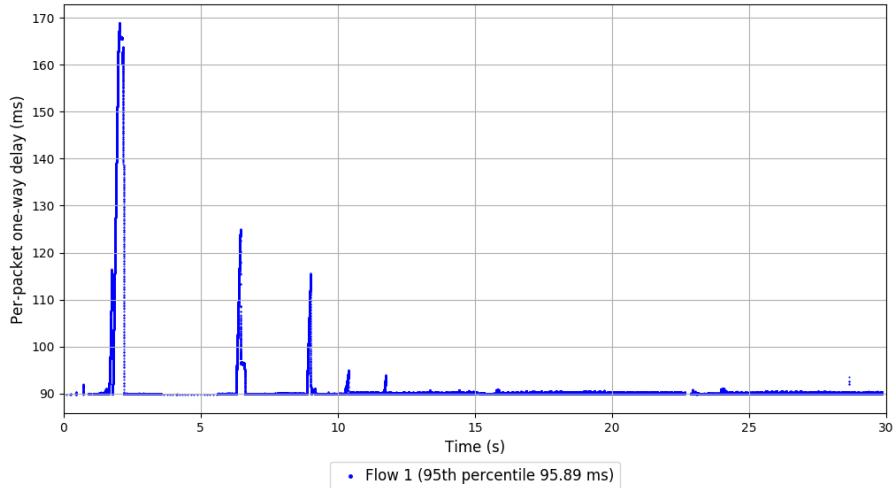
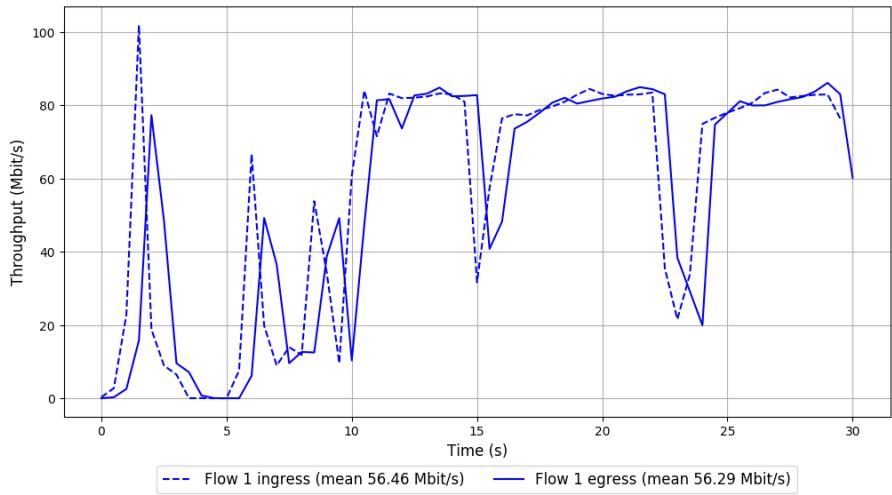


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-05-30 06:37:30
End at: 2019-05-30 06:38:00
Local clock offset: -6.409 ms
Remote clock offset: 5.068 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.29 Mbit/s
95th percentile per-packet one-way delay: 95.894 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 56.29 Mbit/s
95th percentile per-packet one-way delay: 95.894 ms
Loss rate: 0.87%
```

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

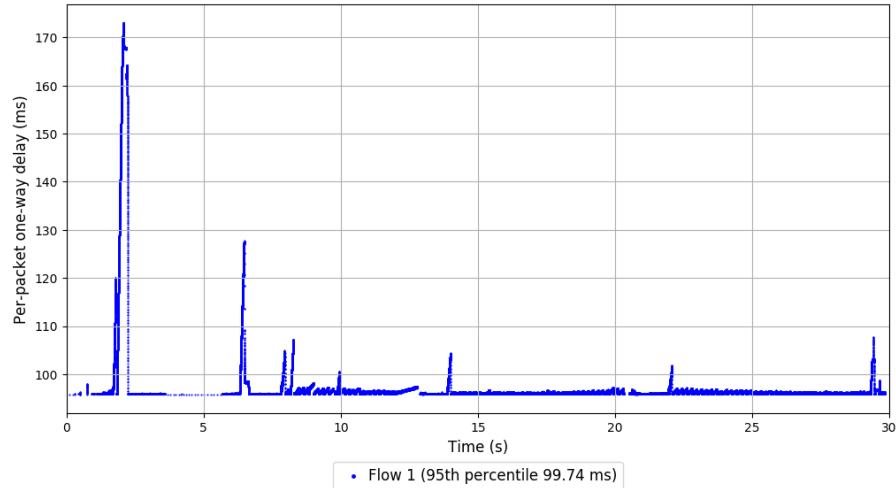
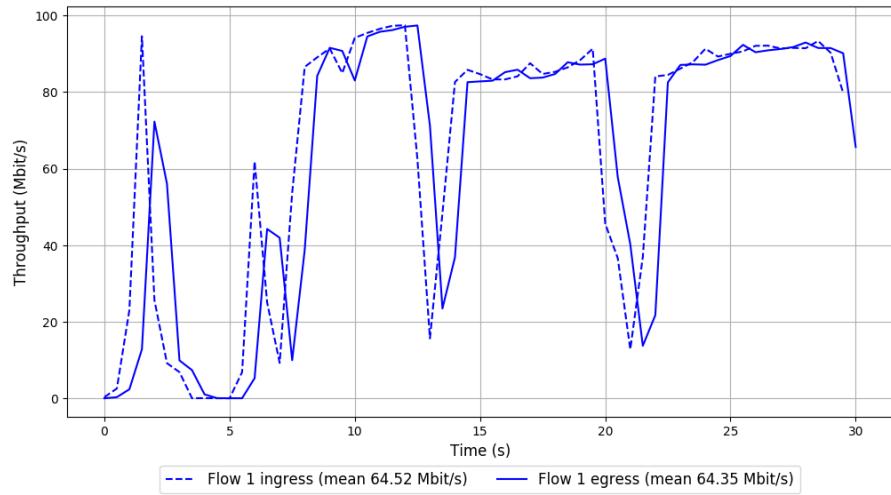


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-05-30 07:02:24
End at: 2019-05-30 07:02:54
Local clock offset: -7.415 ms
Remote clock offset: 6.316 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.35 Mbit/s
95th percentile per-packet one-way delay: 99.739 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 64.35 Mbit/s
95th percentile per-packet one-way delay: 99.739 ms
Loss rate: 0.86%
```

Run 4: Report of QUIC Cubic — Data Link

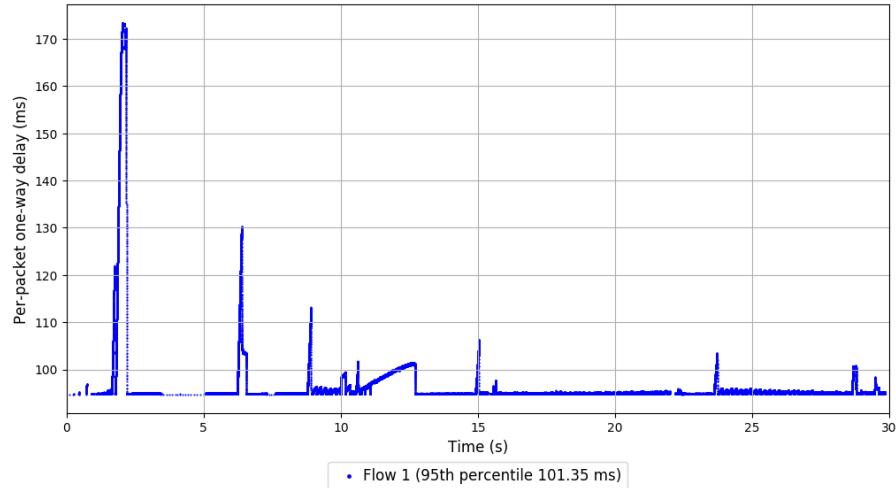
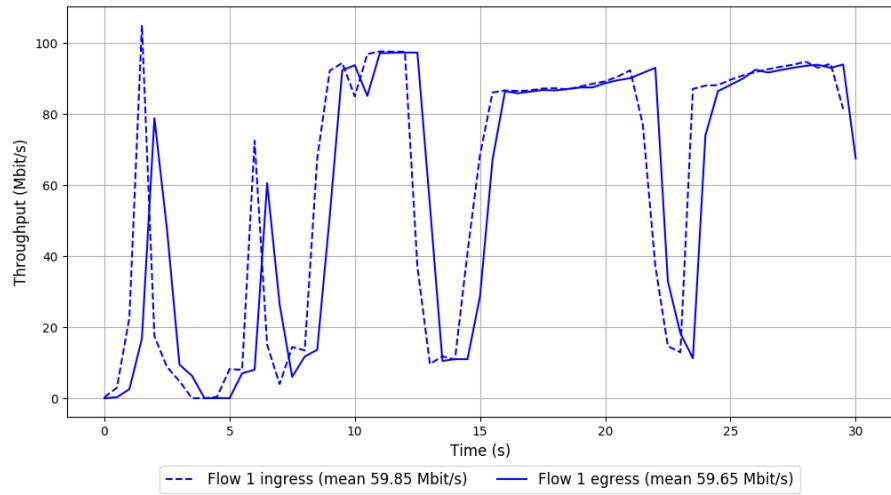


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-05-30 07:27:20
End at: 2019-05-30 07:27:50
Local clock offset: -6.013 ms
Remote clock offset: 1.334 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.65 Mbit/s
95th percentile per-packet one-way delay: 101.350 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 59.65 Mbit/s
95th percentile per-packet one-way delay: 101.350 ms
Loss rate: 0.92%
```

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

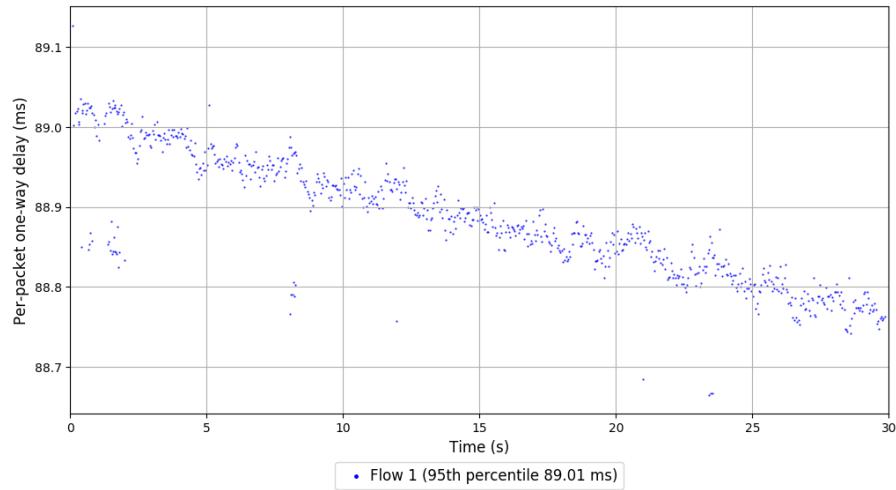
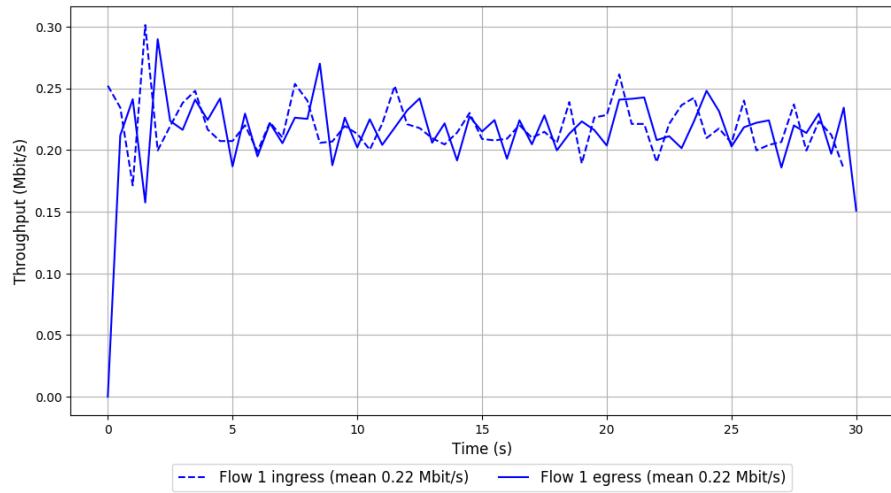


```
Run 1: Statistics of SCReAM

Start at: 2019-05-30 05:50:00
End at: 2019-05-30 05:50:30
Local clock offset: -7.554 ms
Remote clock offset: 8.005 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.007 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.007 ms
Loss rate: 0.51%
```

Run 1: Report of SCReAM — Data Link

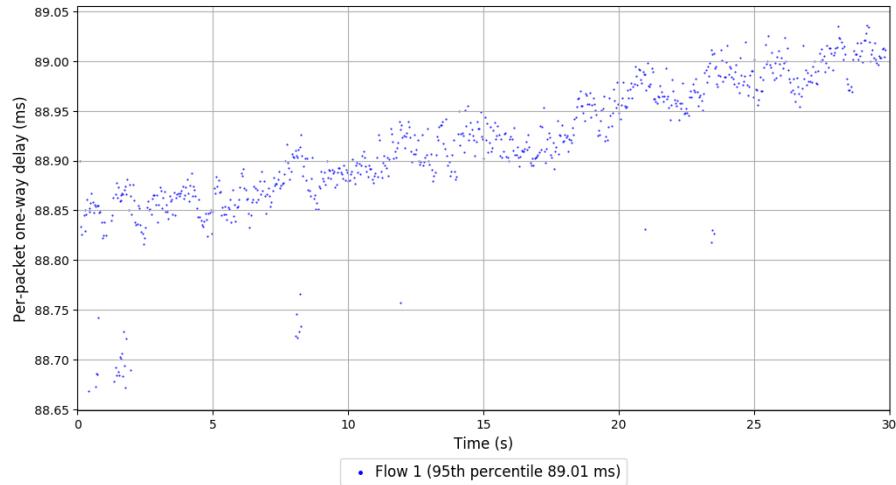
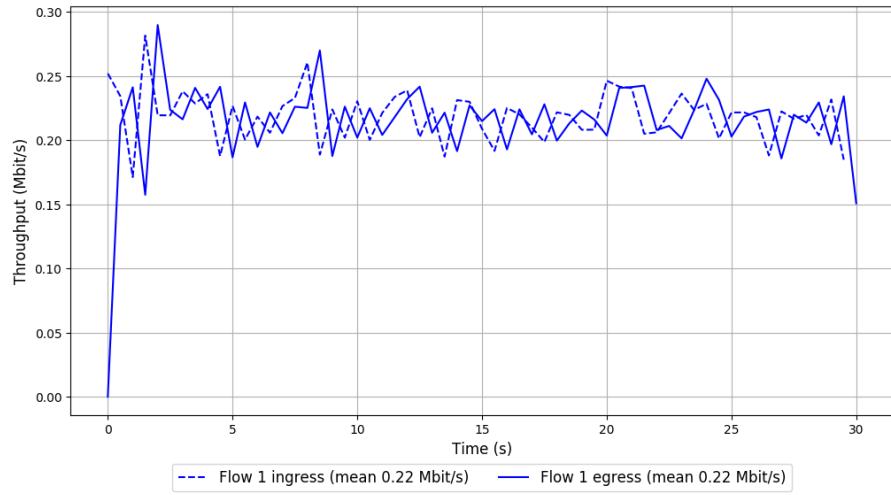


Run 2: Statistics of SCReAM

```
Start at: 2019-05-30 06:14:56
End at: 2019-05-30 06:15:26
Local clock offset: -7.048 ms
Remote clock offset: 2.442 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.009 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.009 ms
Loss rate: 0.51%
```

## Run 2: Report of SCReAM — Data Link

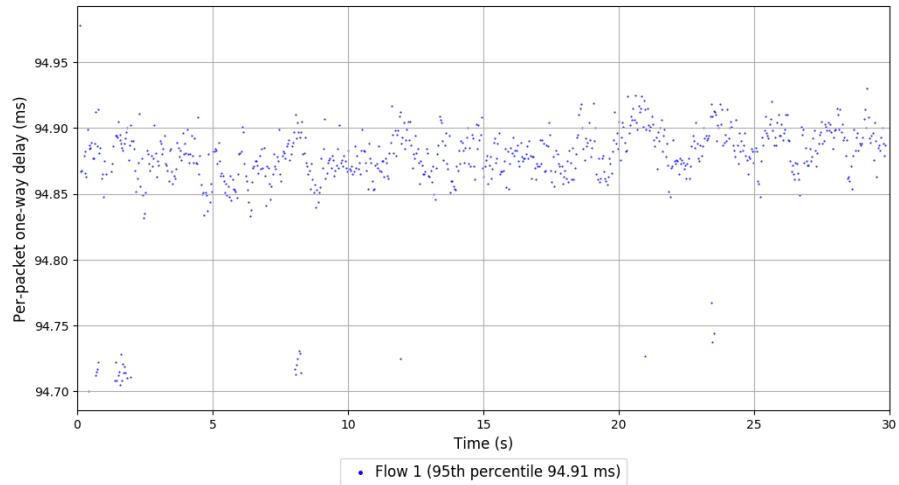
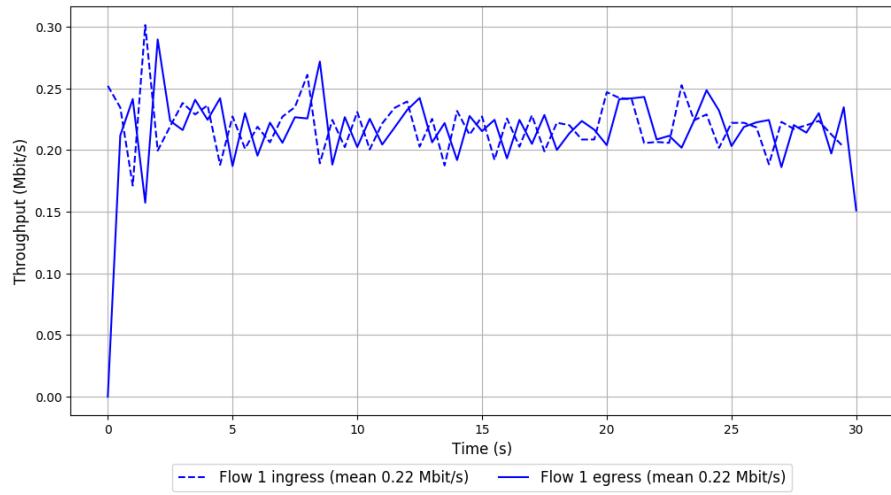


Run 3: Statistics of SCReAM

```
Start at: 2019-05-30 06:39:51
End at: 2019-05-30 06:40:21
Local clock offset: -6.746 ms
Remote clock offset: 0.196 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.909 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.909 ms
Loss rate: 0.64%
```

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

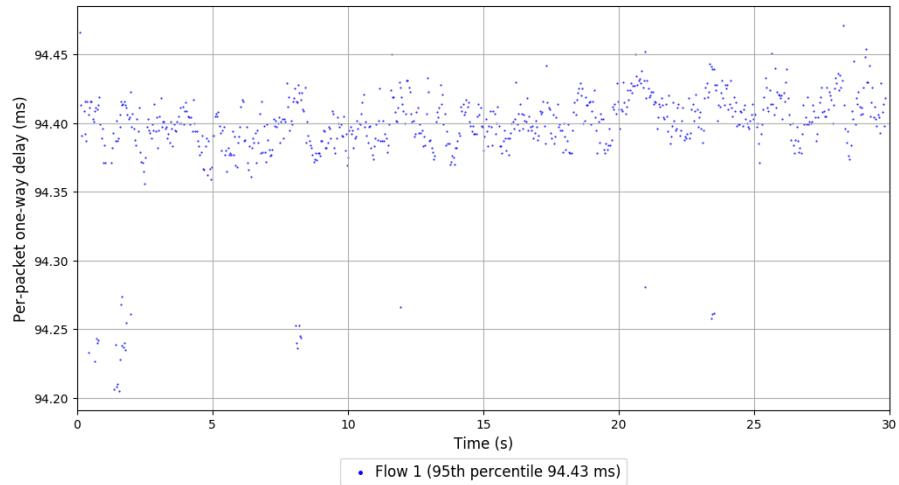
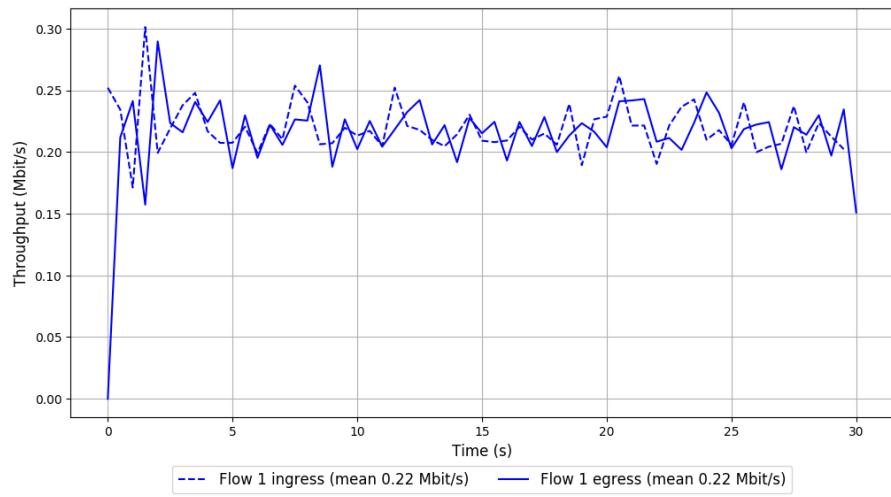


Run 4: Statistics of SCReAM

```
Start at: 2019-05-30 07:04:45
End at: 2019-05-30 07:05:16
Local clock offset: -8.387 ms
Remote clock offset: 1.066 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.430 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.430 ms
Loss rate: 0.64%
```

Run 4: Report of SCReAM — Data Link

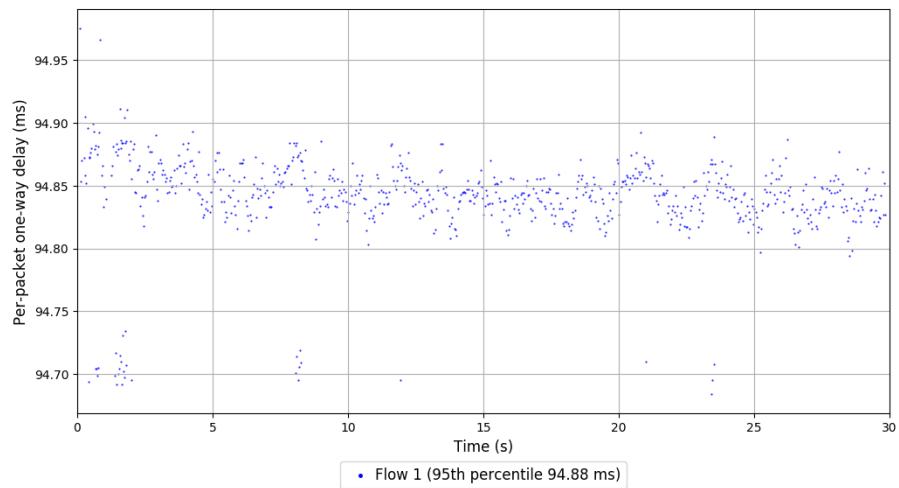
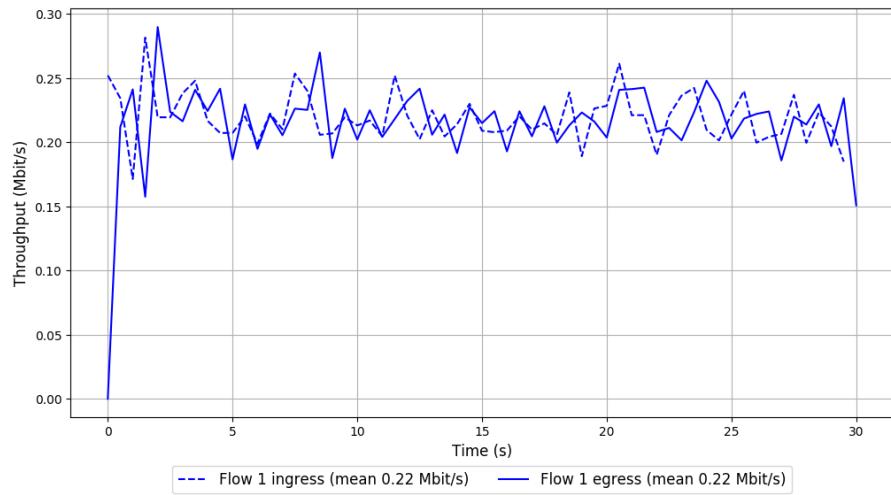


Run 5: Statistics of SCReAM

```
Start at: 2019-05-30 07:29:41
End at: 2019-05-30 07:30:11
Local clock offset: -5.965 ms
Remote clock offset: 1.337 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.880 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.880 ms
Loss rate: 0.51%
```

Run 5: Report of SCReAM — Data Link

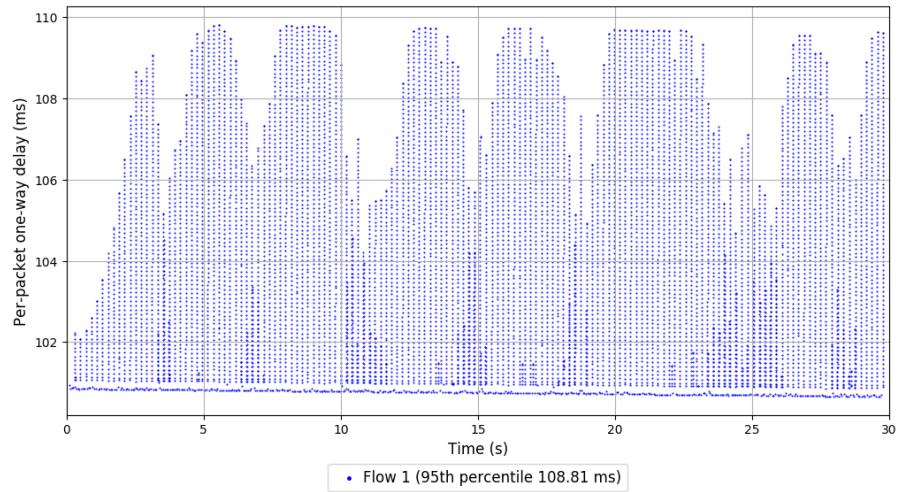
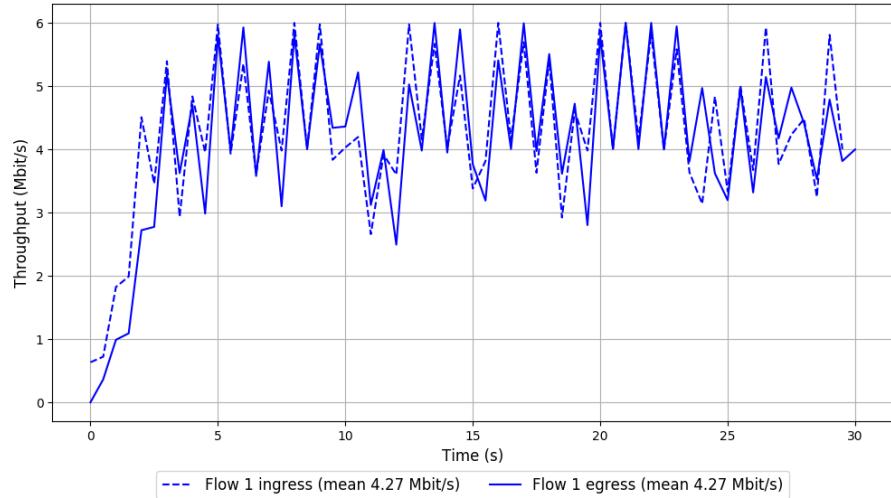


Run 1: Statistics of Sprout

```
Start at: 2019-05-30 05:52:19
End at: 2019-05-30 05:52:49
Local clock offset: -6.949 ms
Remote clock offset: 1.834 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 108.809 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 108.809 ms
Loss rate: 0.78%
```

## Run 1: Report of Sprout — Data Link

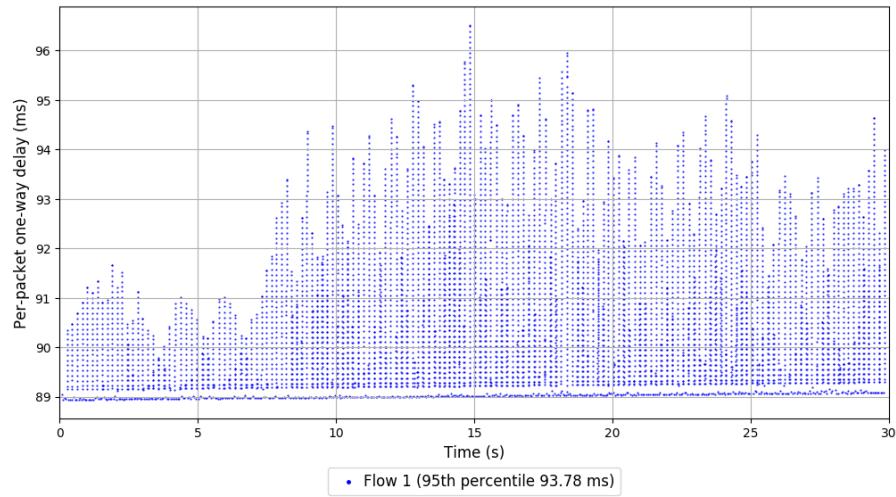
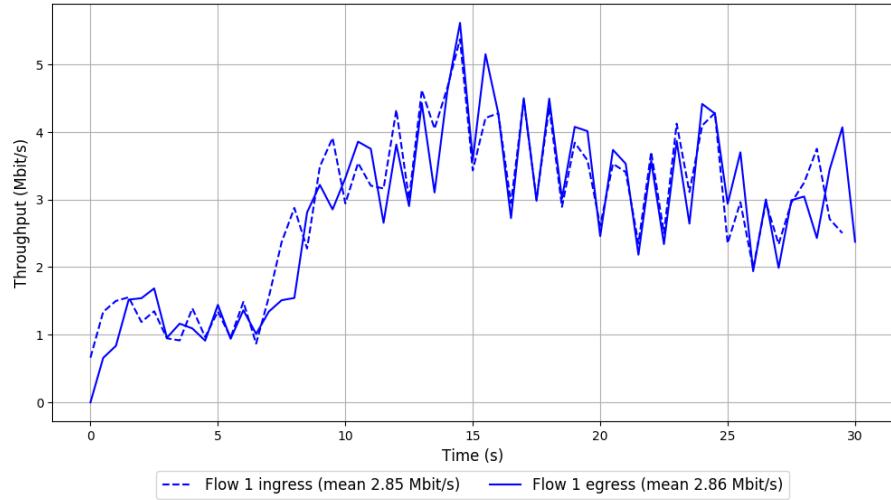


Run 2: Statistics of Sprout

```
Start at: 2019-05-30 06:17:15
End at: 2019-05-30 06:17:45
Local clock offset: -7.561 ms
Remote clock offset: 2.712 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.86 Mbit/s
95th percentile per-packet one-way delay: 93.776 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.86 Mbit/s
95th percentile per-packet one-way delay: 93.776 ms
Loss rate: 0.08%
```

## Run 2: Report of Sprout — Data Link

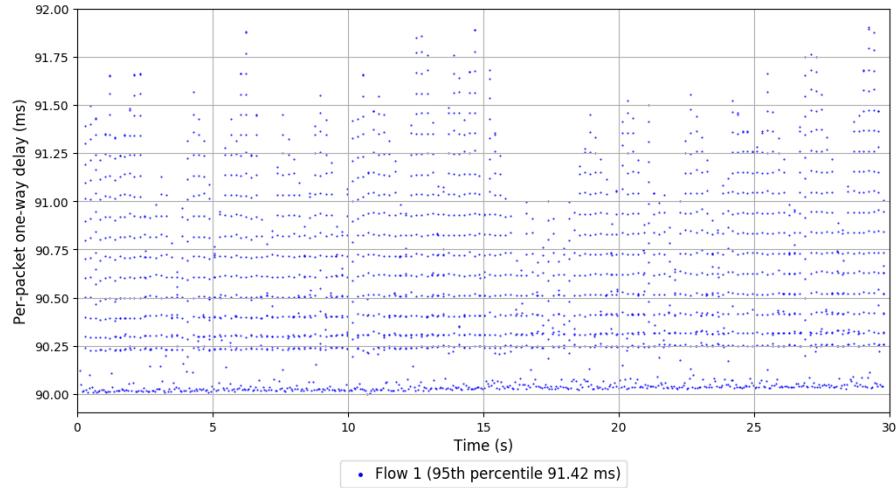
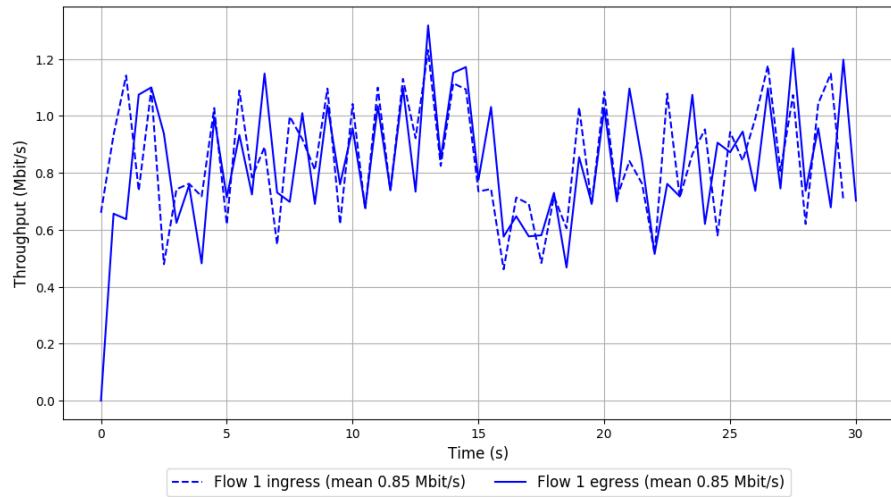


Run 3: Statistics of Sprout

```
Start at: 2019-05-30 06:42:10
End at: 2019-05-30 06:42:40
Local clock offset: -6.663 ms
Remote clock offset: 5.066 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 91.419 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 91.419 ms
Loss rate: 0.63%
```

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

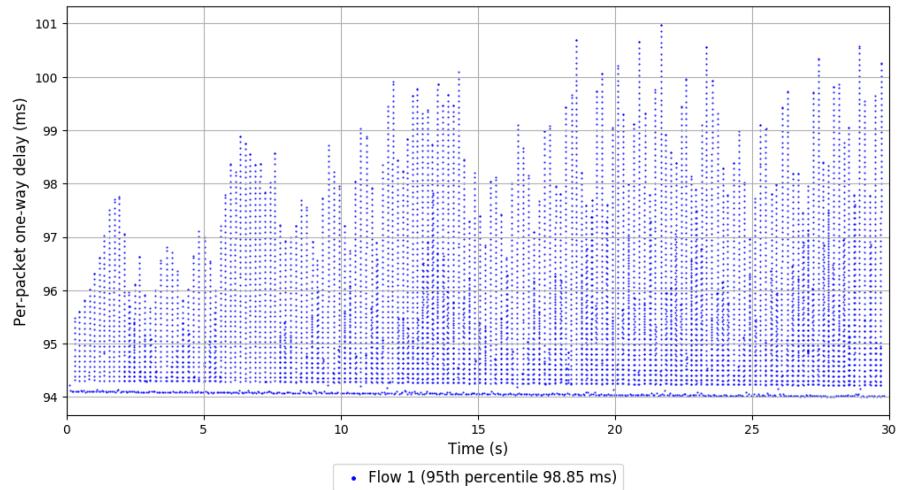
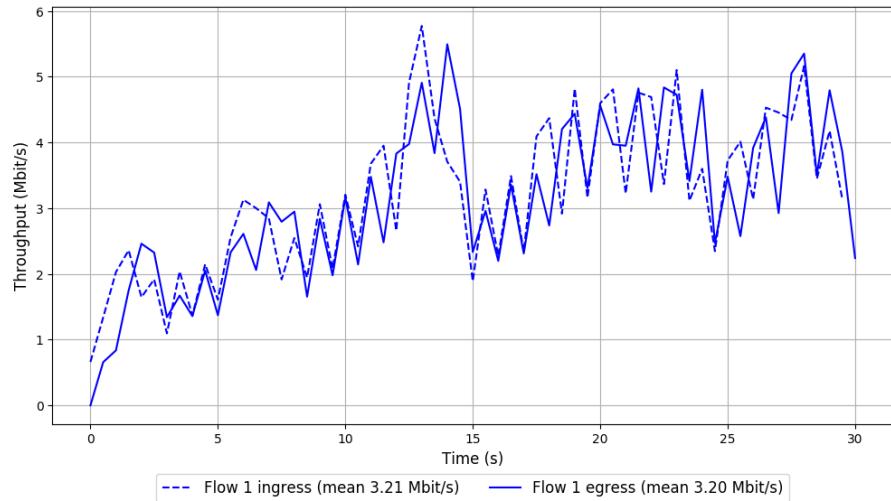


Run 4: Statistics of Sprout

```
Start at: 2019-05-30 07:07:05
End at: 2019-05-30 07:07:35
Local clock offset: -8.368 ms
Remote clock offset: 1.264 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 98.846 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 98.846 ms
Loss rate: 0.80%
```

## Run 4: Report of Sprout — Data Link

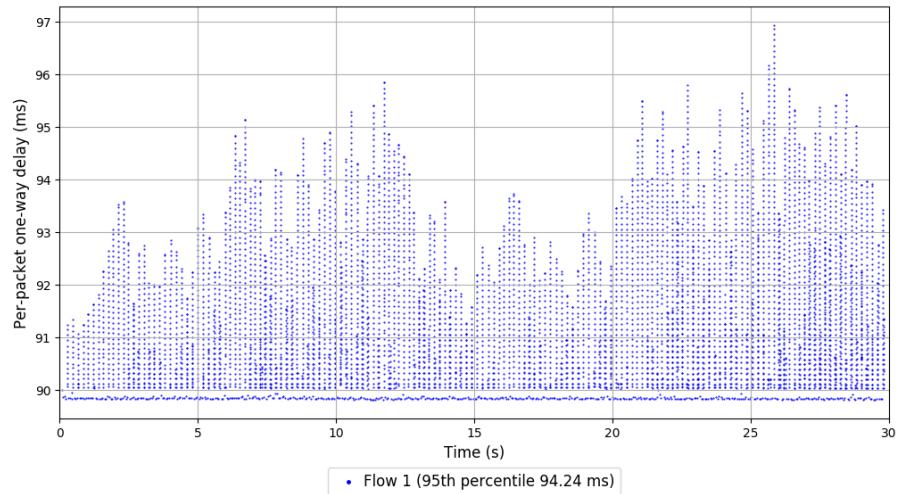
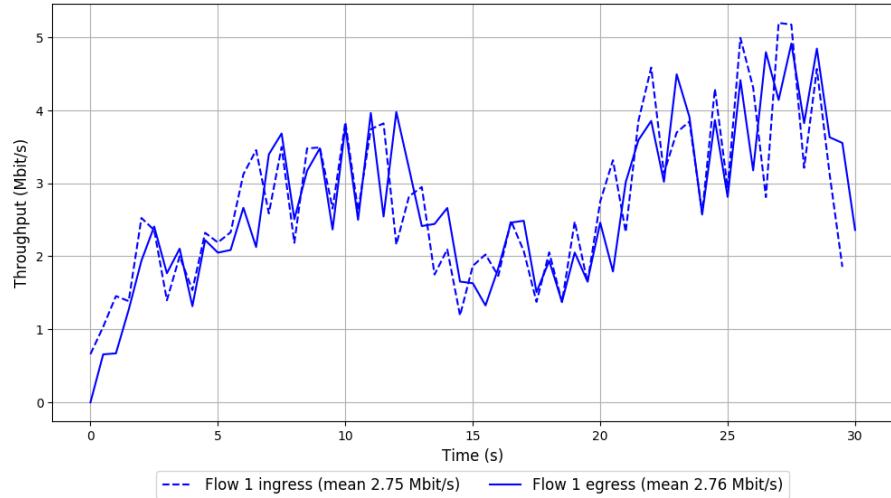


Run 5: Statistics of Sprout

```
Start at: 2019-05-30 07:32:00
End at: 2019-05-30 07:32:30
Local clock offset: -5.861 ms
Remote clock offset: 6.182 ms

# Below is generated by plot.py at 2019-05-30 07:52:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: 94.236 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: 94.236 ms
Loss rate: 0.00%
```

## Run 5: Report of Sprout — Data Link

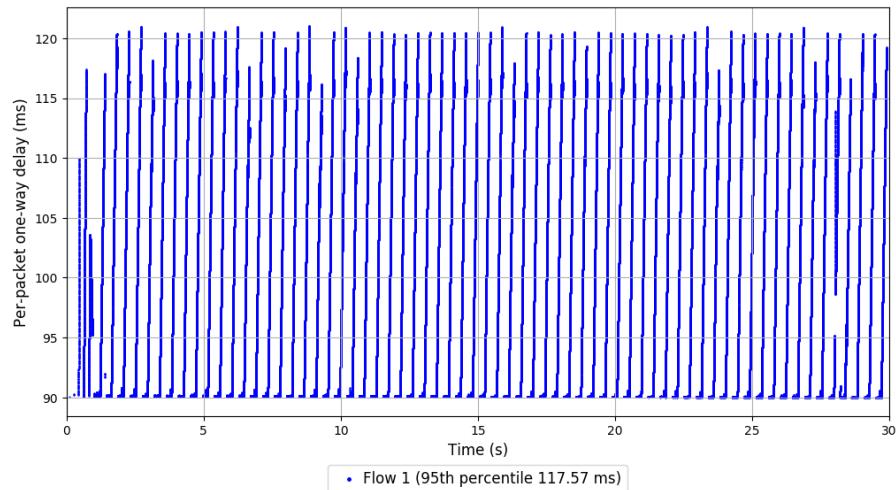
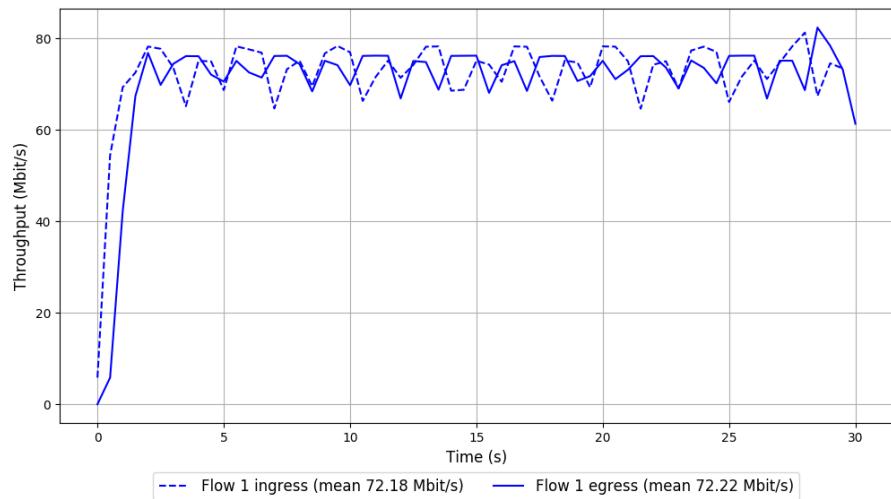


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-05-30 05:54:38
End at: 2019-05-30 05:55:08
Local clock offset: -7.305 ms
Remote clock offset: 5.577 ms

# Below is generated by plot.py at 2019-05-30 07:53:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.22 Mbit/s
95th percentile per-packet one-way delay: 117.570 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 72.22 Mbit/s
95th percentile per-packet one-way delay: 117.570 ms
Loss rate: 0.52%
```

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

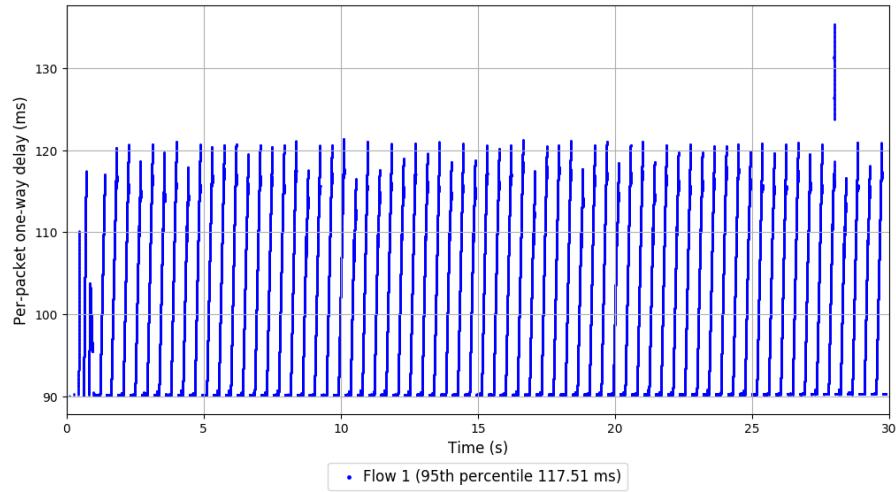
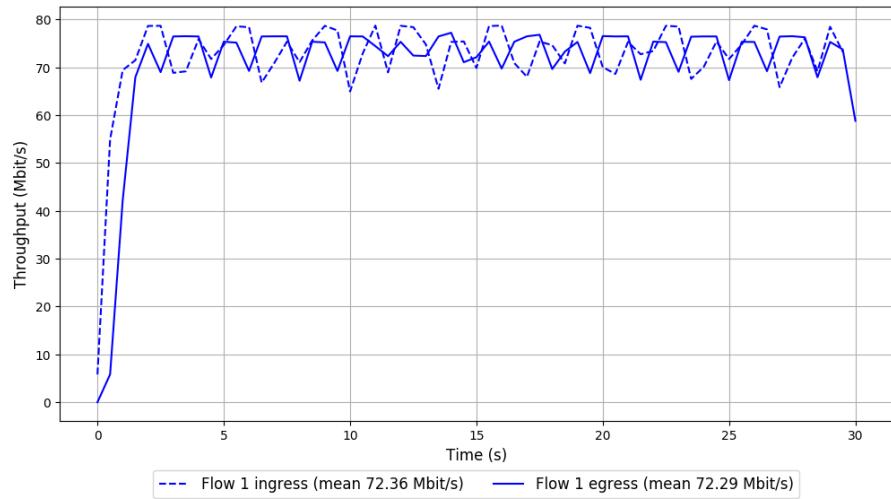


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-05-30 06:19:34
End at: 2019-05-30 06:20:04
Local clock offset: -6.596 ms
Remote clock offset: 2.87 ms

# Below is generated by plot.py at 2019-05-30 07:53:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.29 Mbit/s
95th percentile per-packet one-way delay: 117.508 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 72.29 Mbit/s
95th percentile per-packet one-way delay: 117.508 ms
Loss rate: 0.68%
```

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

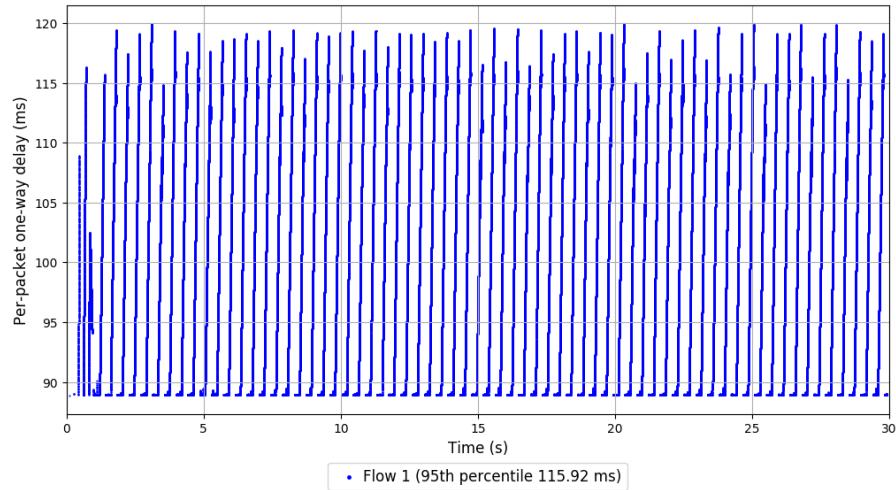
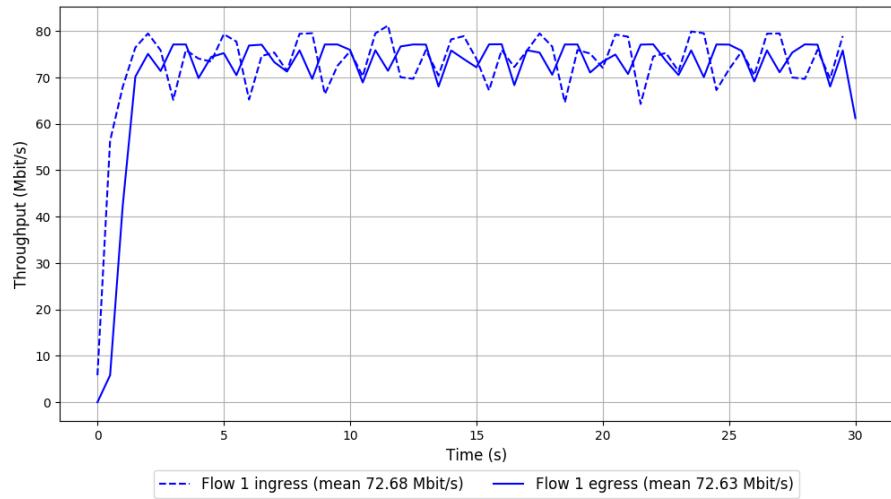


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-05-30 06:44:29
End at: 2019-05-30 06:44:59
Local clock offset: -7.664 ms
Remote clock offset: 5.145 ms

# Below is generated by plot.py at 2019-05-30 07:53:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.63 Mbit/s
95th percentile per-packet one-way delay: 115.925 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.63 Mbit/s
95th percentile per-packet one-way delay: 115.925 ms
Loss rate: 0.64%
```

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

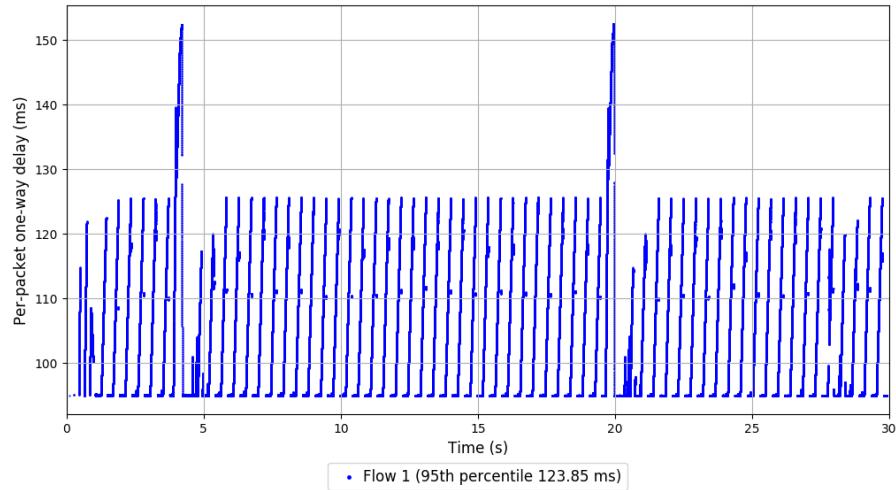
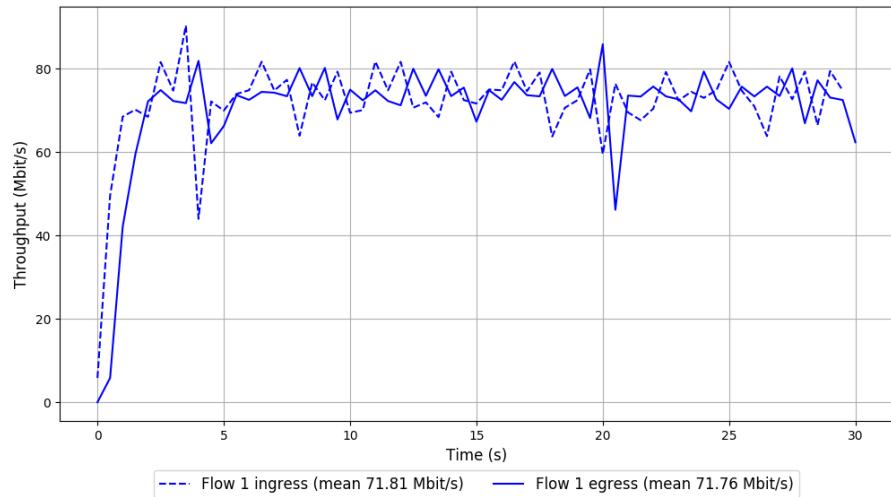


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-05-30 07:09:24
End at: 2019-05-30 07:09:54
Local clock offset: -7.975 ms
Remote clock offset: 6.52 ms

# Below is generated by plot.py at 2019-05-30 07:53:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.76 Mbit/s
95th percentile per-packet one-way delay: 123.852 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 71.76 Mbit/s
95th percentile per-packet one-way delay: 123.852 ms
Loss rate: 0.66%
```

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

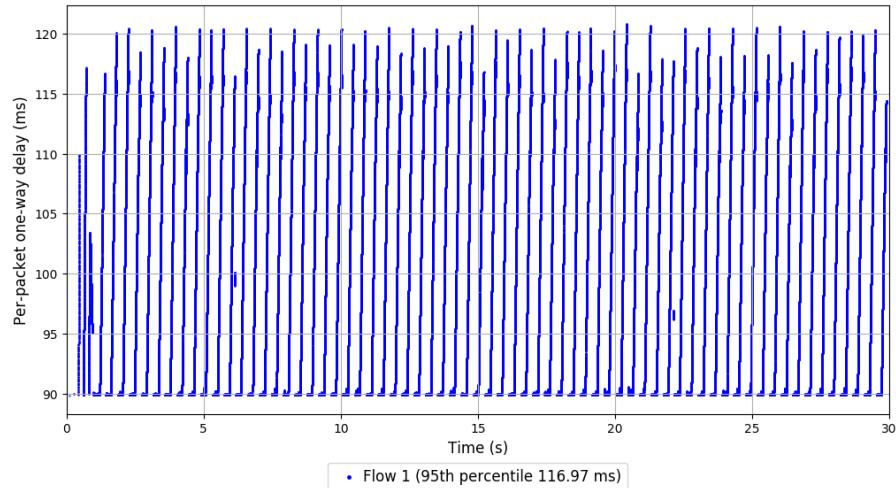
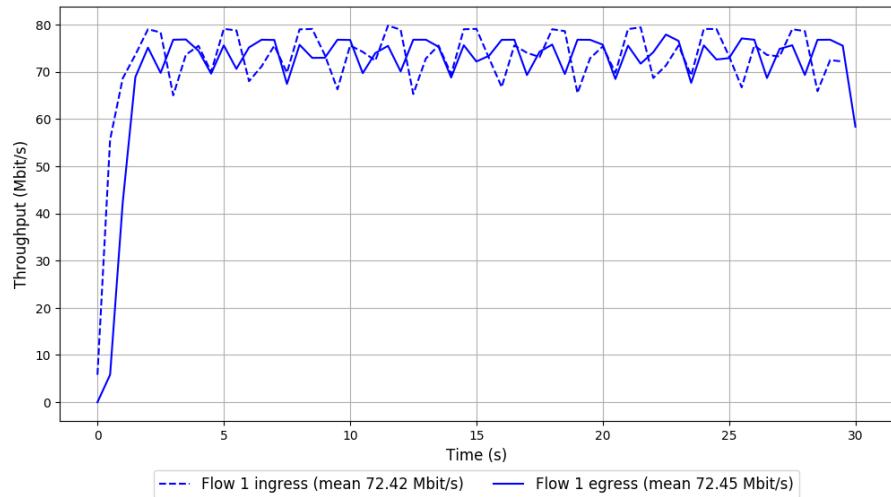


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-05-30 07:34:19
End at: 2019-05-30 07:34:49
Local clock offset: -5.826 ms
Remote clock offset: 5.997 ms

# Below is generated by plot.py at 2019-05-30 07:53:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.45 Mbit/s
95th percentile per-packet one-way delay: 116.974 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 72.45 Mbit/s
95th percentile per-packet one-way delay: 116.974 ms
Loss rate: 0.53%
```

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

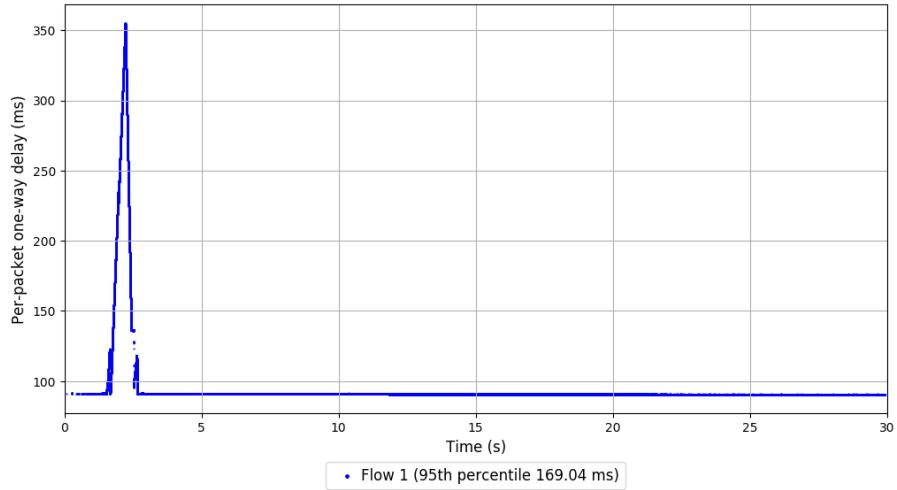
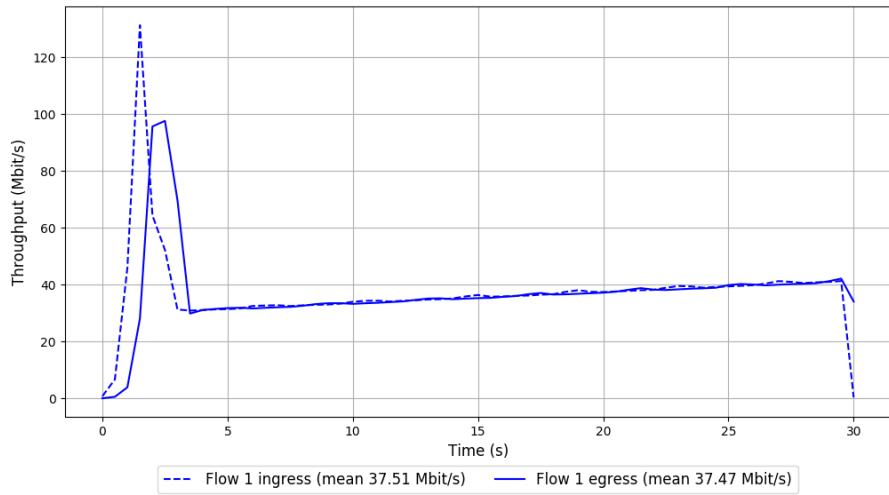


Run 1: Statistics of TCP Vegas

```
Start at: 2019-05-30 05:40:25
End at: 2019-05-30 05:40:55
Local clock offset: -3.425 ms
Remote clock offset: 18.305 ms

# Below is generated by plot.py at 2019-05-30 07:53:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 169.041 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 169.041 ms
Loss rate: 0.67%
```

Run 1: Report of TCP Vegas — Data Link

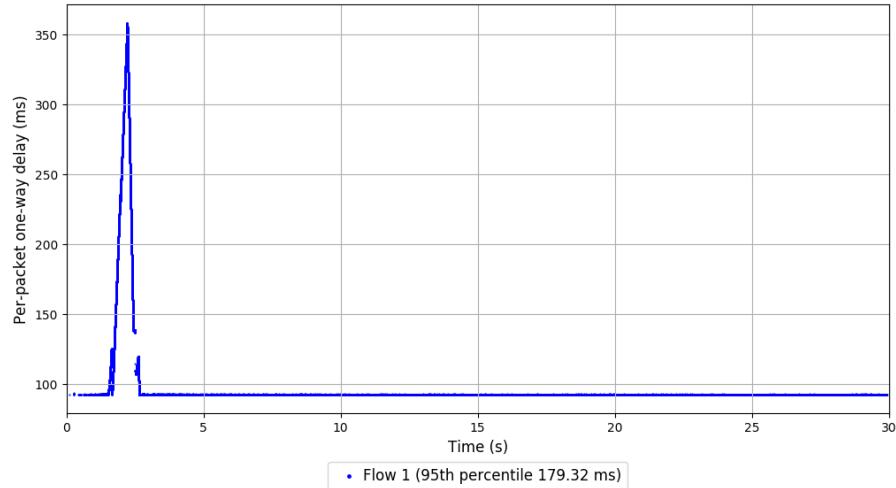
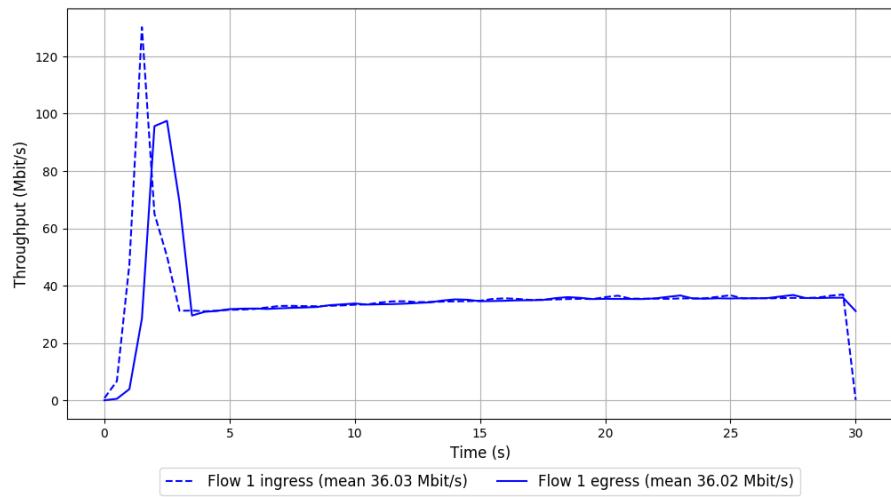


Run 2: Statistics of TCP Vegas

```
Start at: 2019-05-30 06:05:22
End at: 2019-05-30 06:05:52
Local clock offset: -9.232 ms
Remote clock offset: -1.908 ms

# Below is generated by plot.py at 2019-05-30 07:53:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.02 Mbit/s
95th percentile per-packet one-way delay: 179.318 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 36.02 Mbit/s
95th percentile per-packet one-way delay: 179.318 ms
Loss rate: 0.61%
```

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

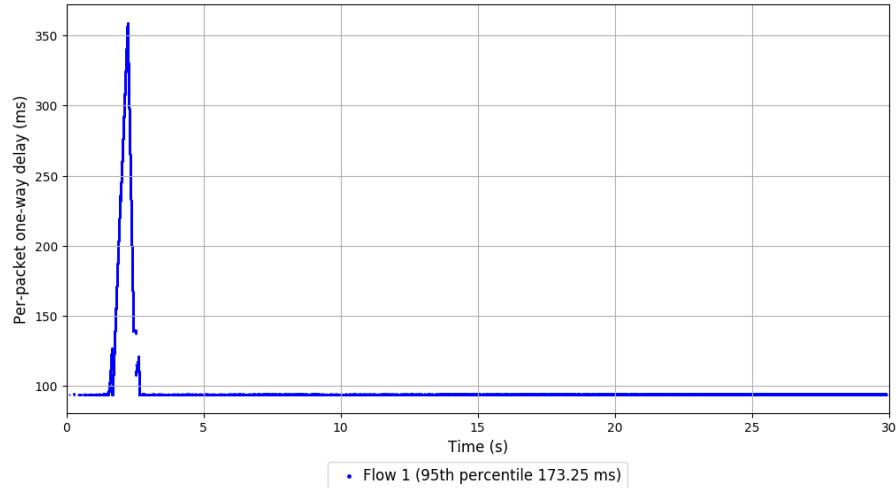
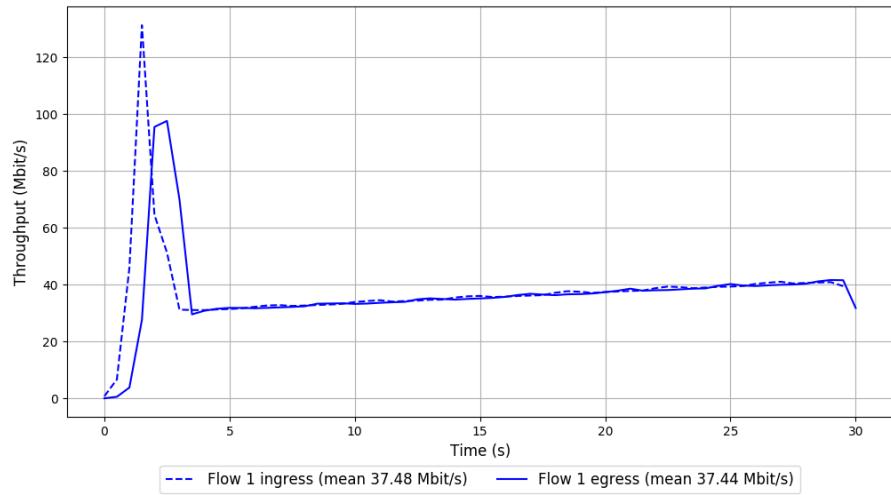


Run 3: Statistics of TCP Vegas

```
Start at: 2019-05-30 06:30:17
End at: 2019-05-30 06:30:47
Local clock offset: -7.252 ms
Remote clock offset: -0.215 ms

# Below is generated by plot.py at 2019-05-30 07:53:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.44 Mbit/s
95th percentile per-packet one-way delay: 173.250 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 37.44 Mbit/s
95th percentile per-packet one-way delay: 173.250 ms
Loss rate: 0.67%
```

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

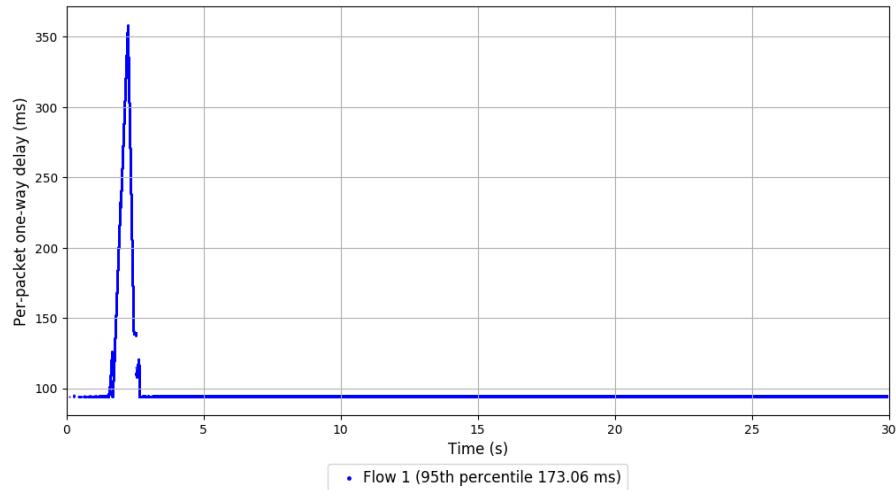
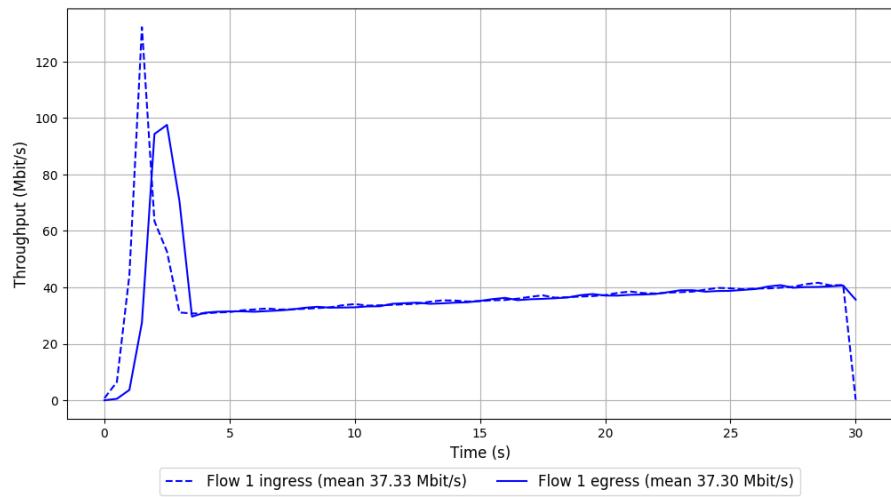


Run 4: Statistics of TCP Vegas

```
Start at: 2019-05-30 06:55:11
End at: 2019-05-30 06:55:41
Local clock offset: -7.994 ms
Remote clock offset: 0.826 ms

# Below is generated by plot.py at 2019-05-30 07:53:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.30 Mbit/s
95th percentile per-packet one-way delay: 173.059 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 37.30 Mbit/s
95th percentile per-packet one-way delay: 173.059 ms
Loss rate: 0.67%
```

Run 4: Report of TCP Vegas — Data Link

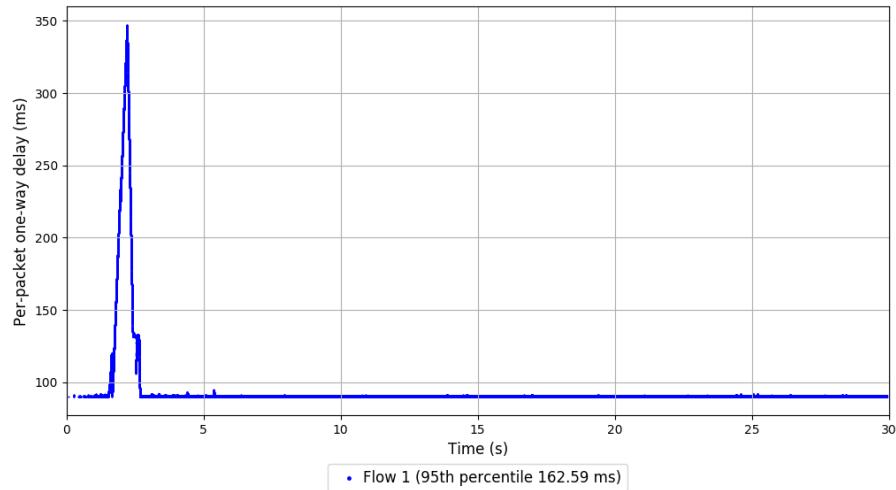
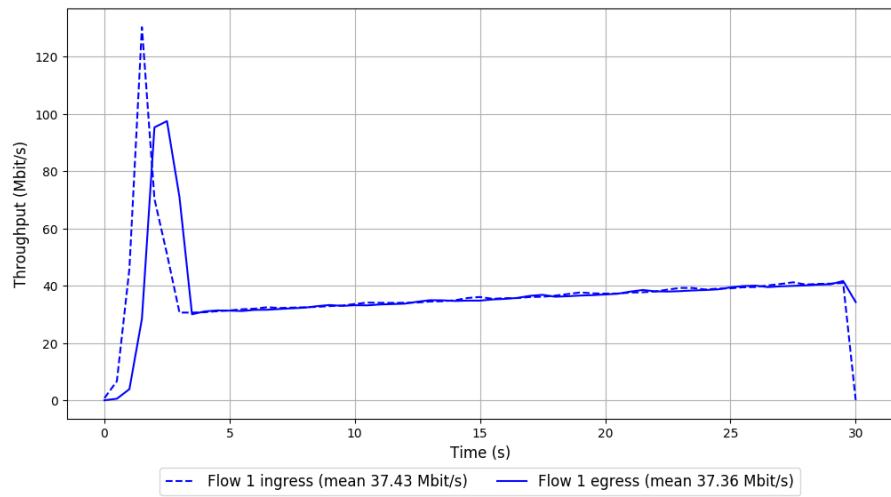


Run 5: Statistics of TCP Vegas

```
Start at: 2019-05-30 07:20:07
End at: 2019-05-30 07:20:37
Local clock offset: -6.091 ms
Remote clock offset: 6.441 ms

# Below is generated by plot.py at 2019-05-30 07:53:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.36 Mbit/s
95th percentile per-packet one-way delay: 162.587 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 37.36 Mbit/s
95th percentile per-packet one-way delay: 162.587 ms
Loss rate: 0.76%
```

Run 5: Report of TCP Vegas — Data Link

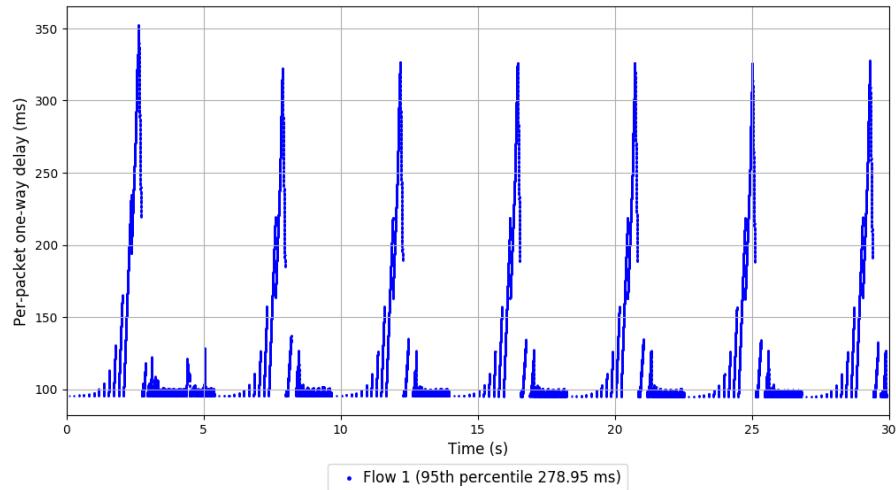
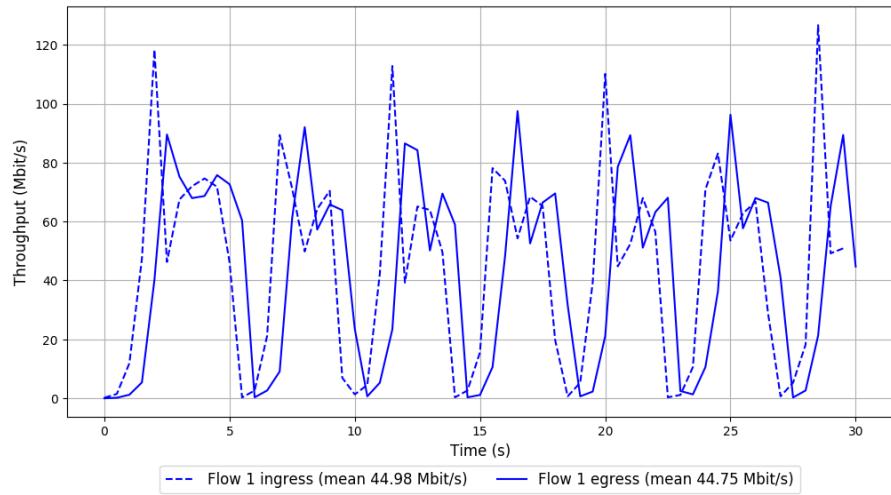


Run 1: Statistics of Verus

```
Start at: 2019-05-30 05:39:14
End at: 2019-05-30 05:39:44
Local clock offset: -3.619 ms
Remote clock offset: 21.574 ms

# Below is generated by plot.py at 2019-05-30 07:53:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.75 Mbit/s
95th percentile per-packet one-way delay: 278.953 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 44.75 Mbit/s
95th percentile per-packet one-way delay: 278.953 ms
Loss rate: 1.08%
```

Run 1: Report of Verus — Data Link

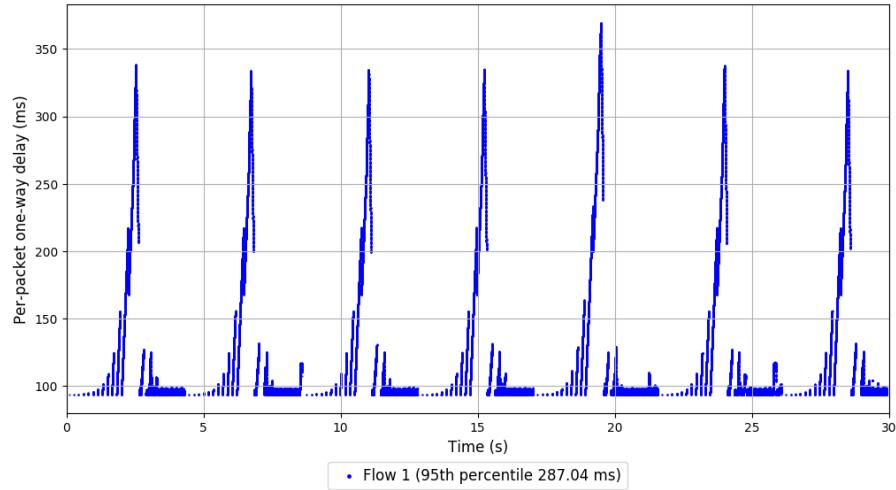
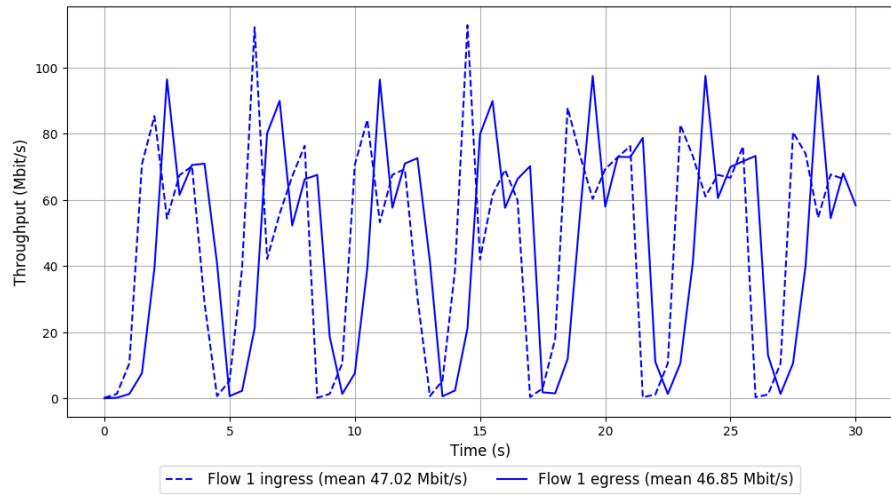


Run 2: Statistics of Verus

```
Start at: 2019-05-30 06:04:11
End at: 2019-05-30 06:04:41
Local clock offset: -8.383 ms
Remote clock offset: -1.734 ms

# Below is generated by plot.py at 2019-05-30 07:53:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.85 Mbit/s
95th percentile per-packet one-way delay: 287.042 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 46.85 Mbit/s
95th percentile per-packet one-way delay: 287.042 ms
Loss rate: 0.93%
```

Run 2: Report of Verus — Data Link

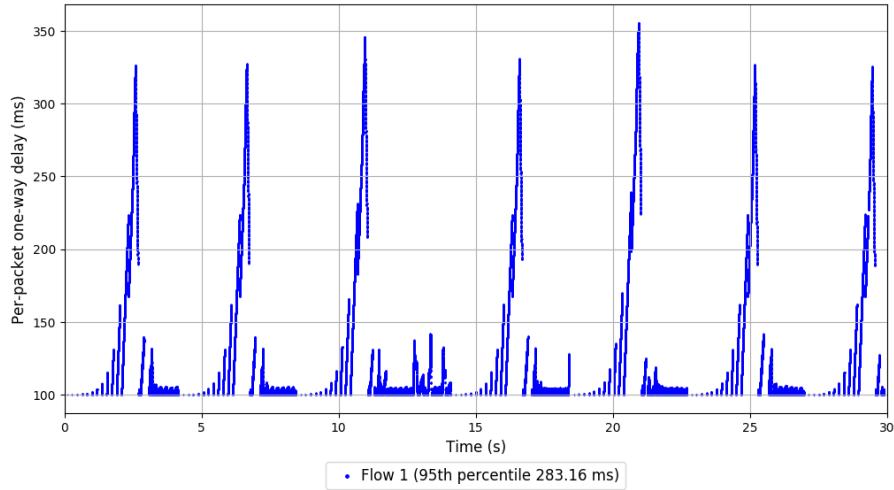
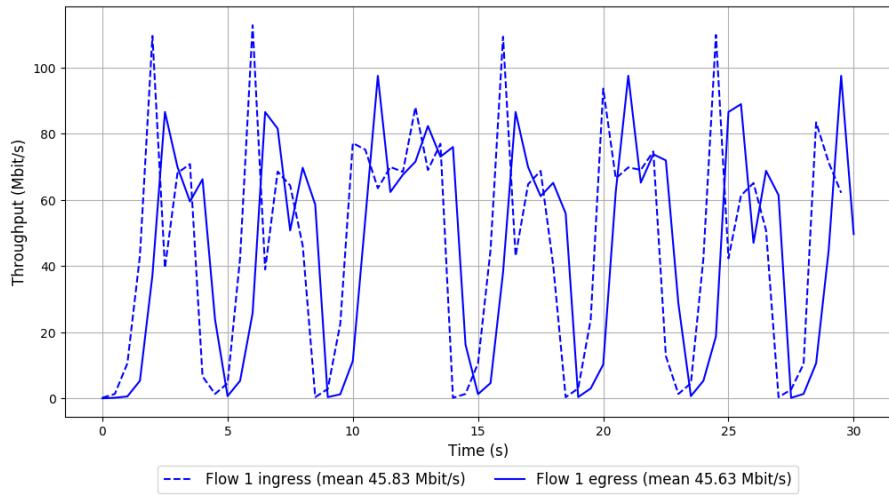


Run 3: Statistics of Verus

```
Start at: 2019-05-30 06:29:06
End at: 2019-05-30 06:29:36
Local clock offset: -6.602 ms
Remote clock offset: 0.903 ms

# Below is generated by plot.py at 2019-05-30 07:53:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.63 Mbit/s
95th percentile per-packet one-way delay: 283.159 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 45.63 Mbit/s
95th percentile per-packet one-way delay: 283.159 ms
Loss rate: 1.03%
```

Run 3: Report of Verus — Data Link

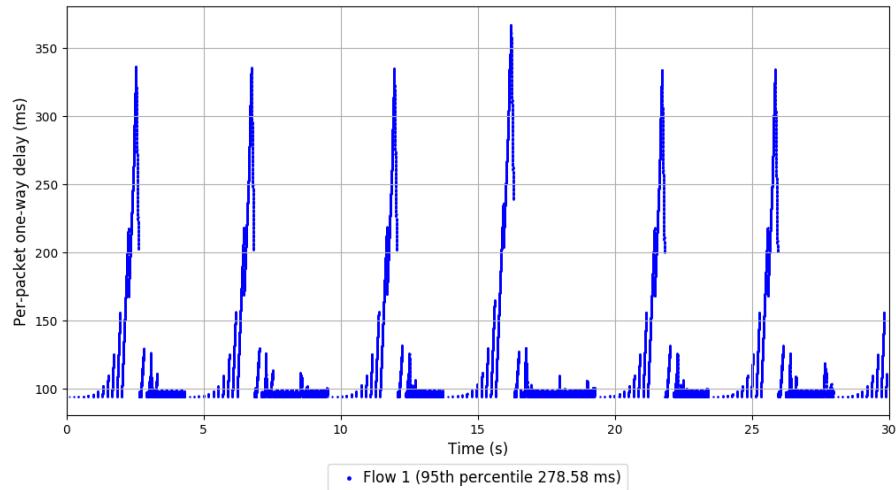
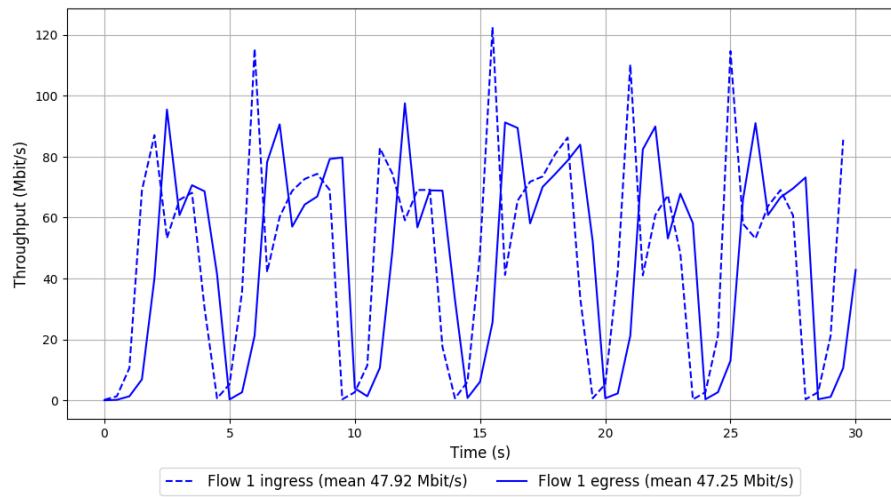


Run 4: Statistics of Verus

```
Start at: 2019-05-30 06:54:01
End at: 2019-05-30 06:54:31
Local clock offset: -8.017 ms
Remote clock offset: 0.856 ms

# Below is generated by plot.py at 2019-05-30 07:53:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.25 Mbit/s
95th percentile per-packet one-way delay: 278.582 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 47.25 Mbit/s
95th percentile per-packet one-way delay: 278.582 ms
Loss rate: 1.97%
```

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

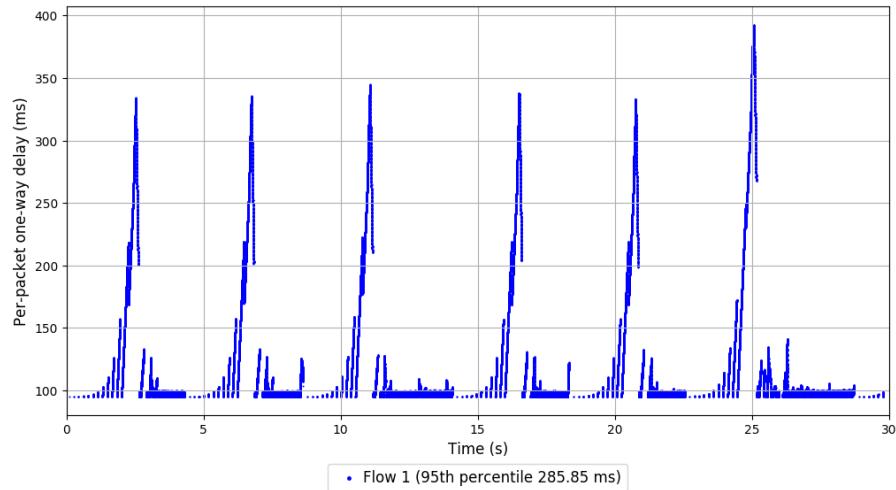
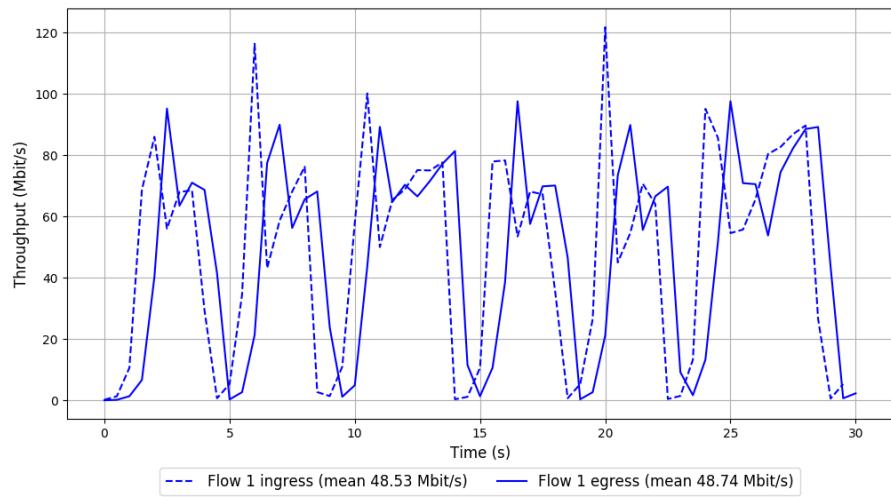


Run 5: Statistics of Verus

```
Start at: 2019-05-30 07:18:56
End at: 2019-05-30 07:19:26
Local clock offset: -6.26 ms
Remote clock offset: 1.462 ms

# Below is generated by plot.py at 2019-05-30 07:53:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.74 Mbit/s
95th percentile per-packet one-way delay: 285.848 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 48.74 Mbit/s
95th percentile per-packet one-way delay: 285.848 ms
Loss rate: 0.17%
```

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

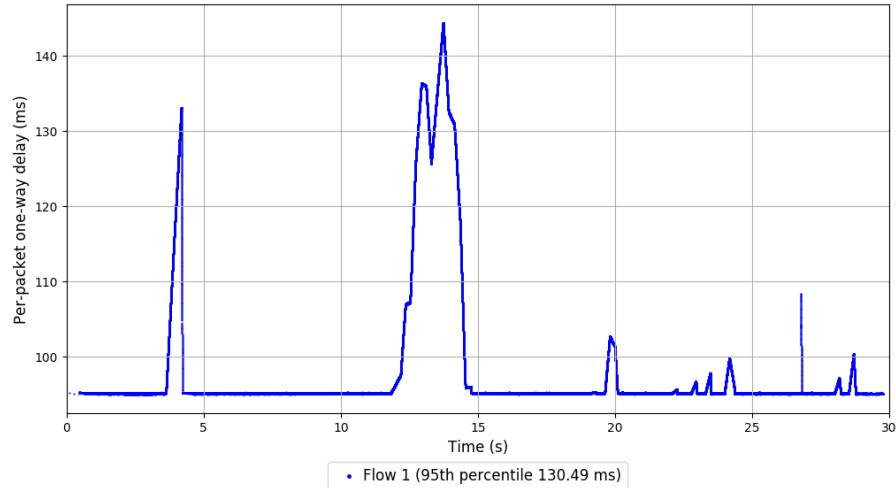
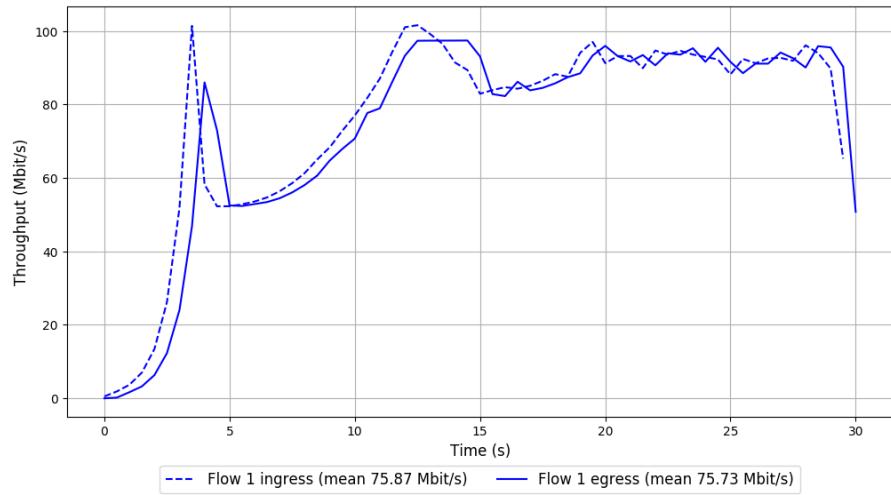


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-05-30 06:00:39
End at: 2019-05-30 06:01:09
Local clock offset: -8.047 ms
Remote clock offset: -1.821 ms

# Below is generated by plot.py at 2019-05-30 07:53:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.73 Mbit/s
95th percentile per-packet one-way delay: 130.486 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 75.73 Mbit/s
95th percentile per-packet one-way delay: 130.486 ms
Loss rate: 0.76%
```

Run 1: Report of PCC-Vivace — Data Link

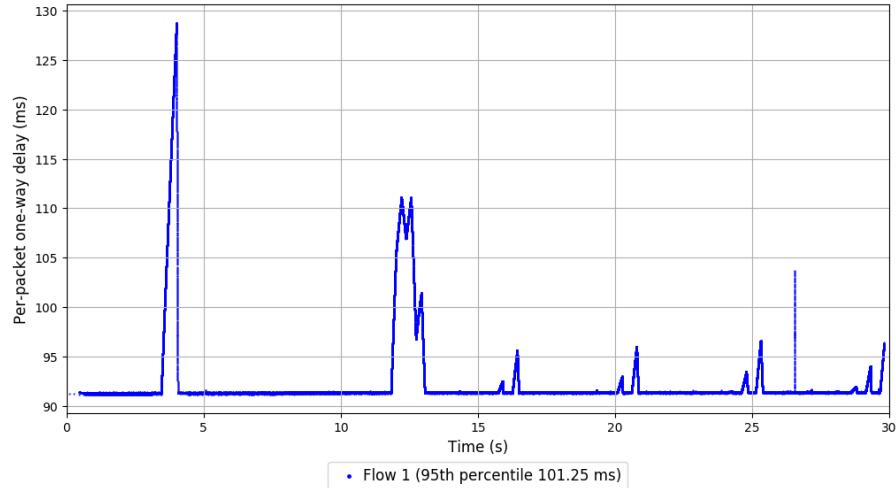
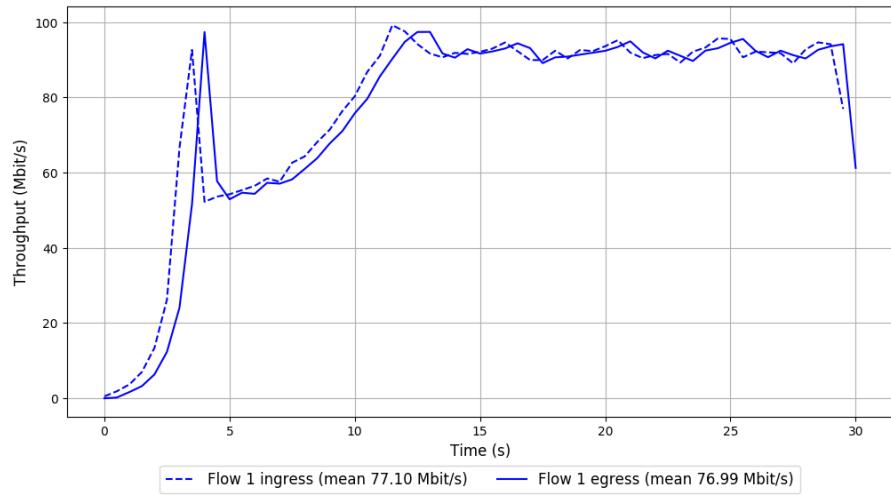


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-05-30 06:25:34
End at: 2019-05-30 06:26:04
Local clock offset: -6.393 ms
Remote clock offset: 3.242 ms

# Below is generated by plot.py at 2019-05-30 07:54:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.99 Mbit/s
95th percentile per-packet one-way delay: 101.247 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 76.99 Mbit/s
95th percentile per-packet one-way delay: 101.247 ms
Loss rate: 0.73%
```

Run 2: Report of PCC-Vivace — Data Link

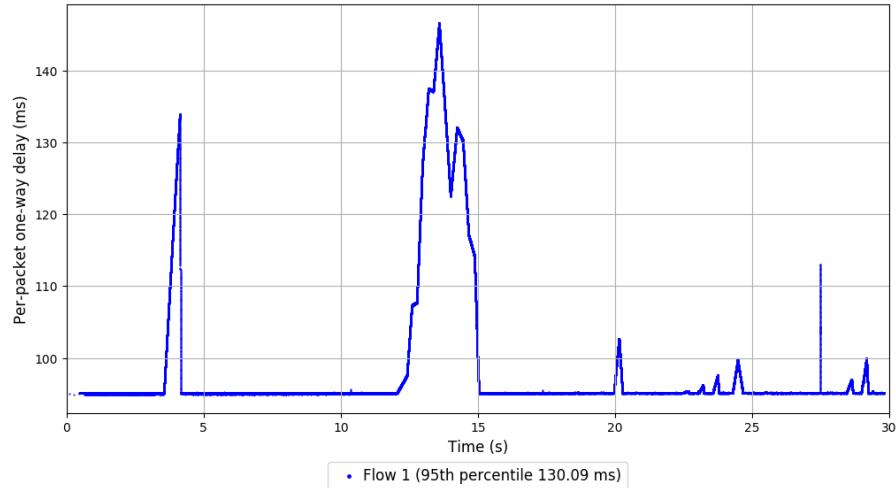
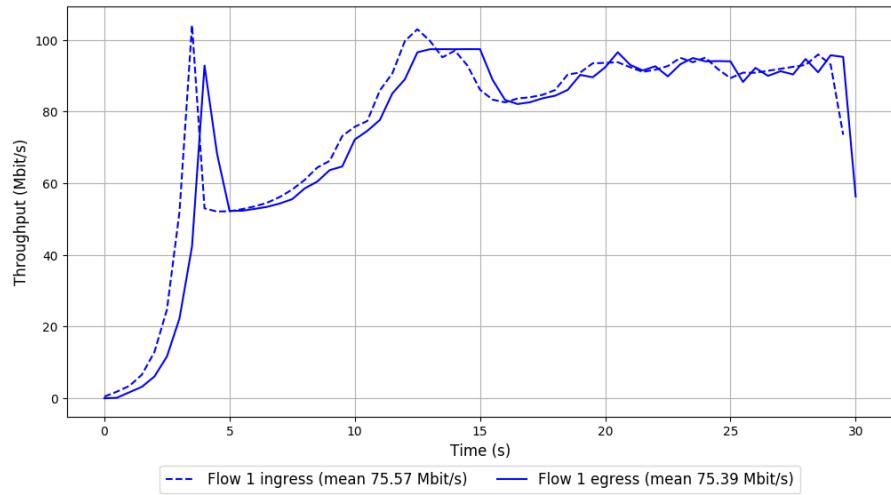


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-05-30 06:50:28
End at: 2019-05-30 06:50:58
Local clock offset: -7.843 ms
Remote clock offset: 5.472 ms

# Below is generated by plot.py at 2019-05-30 07:54:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.39 Mbit/s
95th percentile per-packet one-way delay: 130.092 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 75.39 Mbit/s
95th percentile per-packet one-way delay: 130.092 ms
Loss rate: 0.84%
```

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

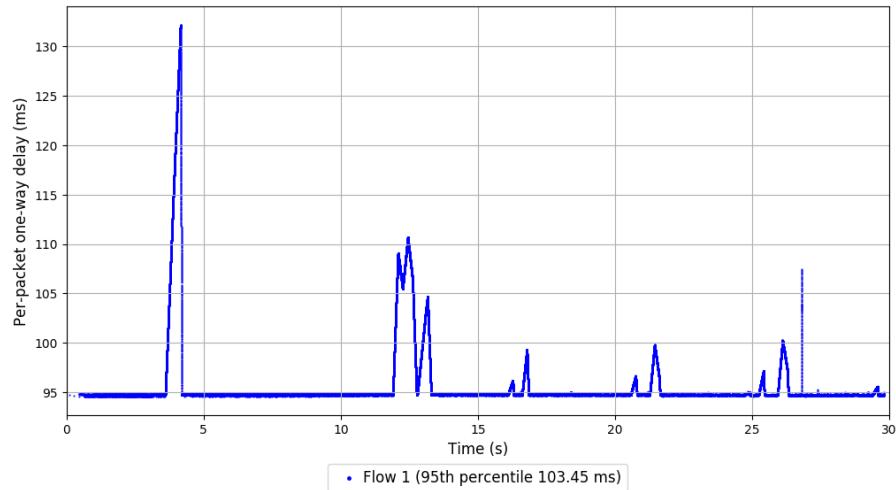
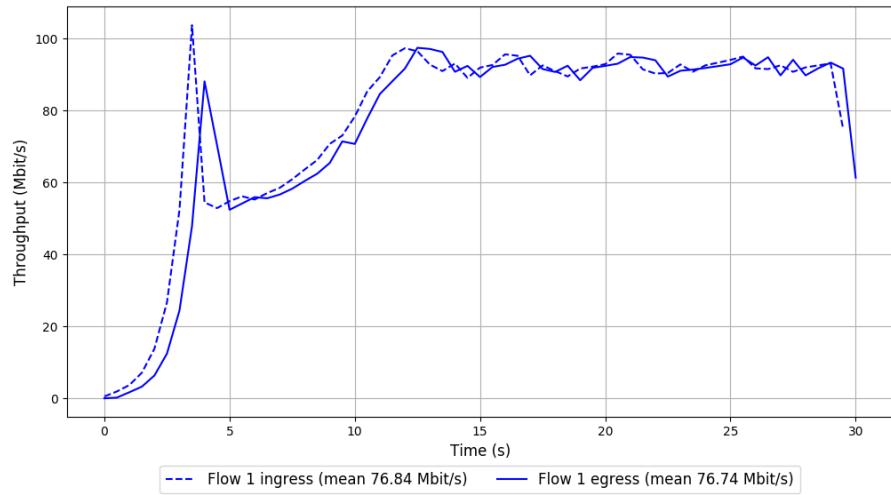


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-05-30 07:15:24
End at: 2019-05-30 07:15:54
Local clock offset: -6.515 ms
Remote clock offset: 1.583 ms

# Below is generated by plot.py at 2019-05-30 07:54:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.74 Mbit/s
95th percentile per-packet one-way delay: 103.450 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 76.74 Mbit/s
95th percentile per-packet one-way delay: 103.450 ms
Loss rate: 0.71%
```

Run 4: Report of PCC-Vivace — Data Link

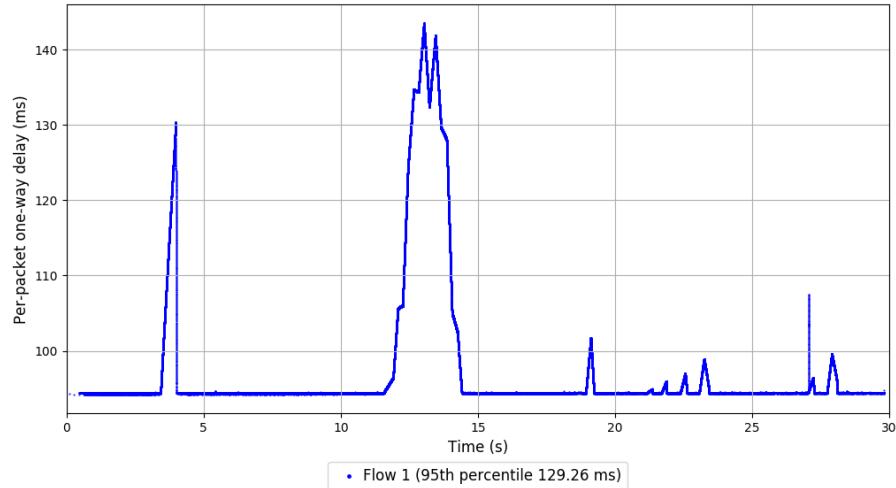
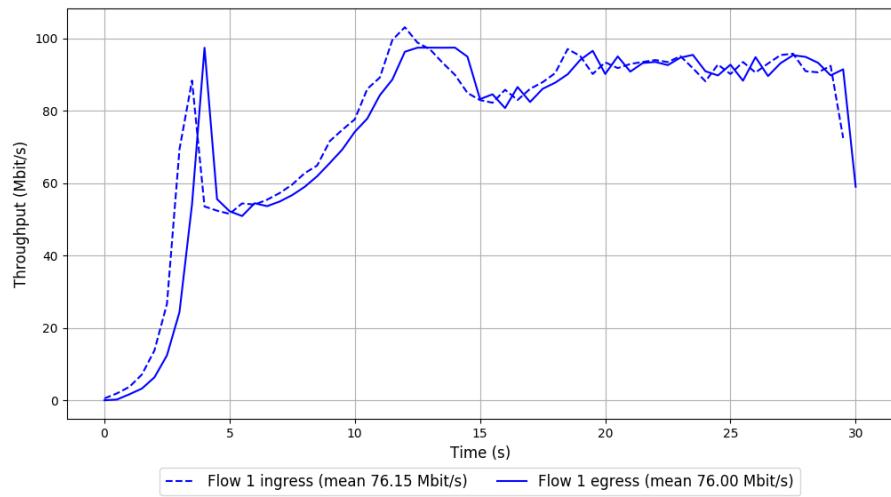


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-05-30 07:40:20
End at: 2019-05-30 07:40:50
Local clock offset: -6.692 ms
Remote clock offset: 1.17 ms

# Below is generated by plot.py at 2019-05-30 07:54:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.00 Mbit/s
95th percentile per-packet one-way delay: 129.259 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 76.00 Mbit/s
95th percentile per-packet one-way delay: 129.259 ms
Loss rate: 0.77%
```

Run 5: Report of PCC-Vivace — Data Link

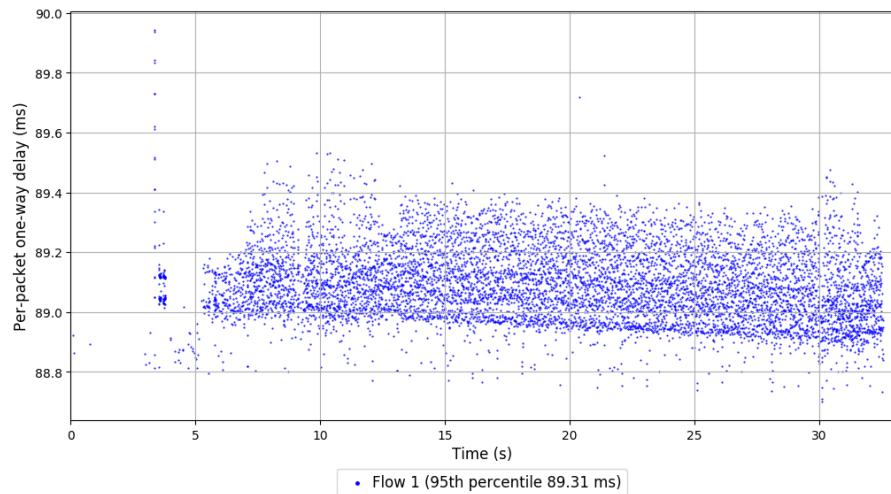
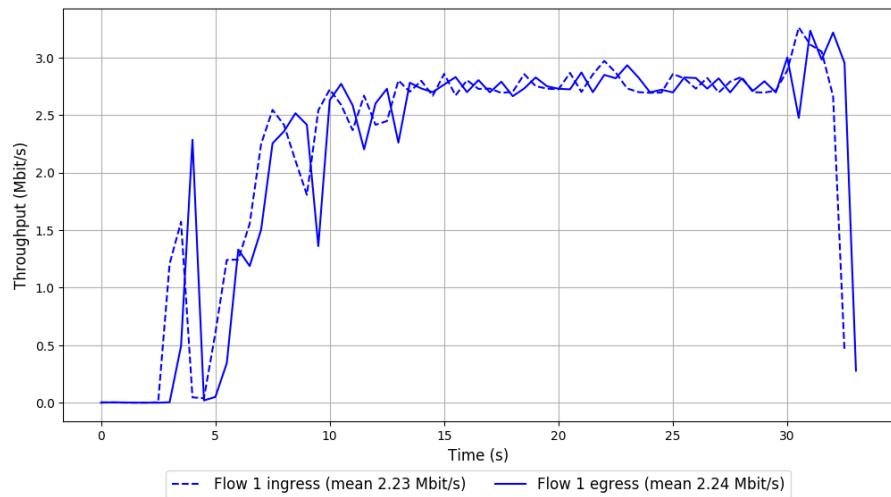


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2019-05-30 05:57:03
End at: 2019-05-30 05:57:33
Local clock offset: -8.634 ms
Remote clock offset: 4.178 ms

# Below is generated by plot.py at 2019-05-30 07:54:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 89.309 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 89.309 ms
Loss rate: 0.32%
```

Run 1: Report of WebRTC media — Data Link

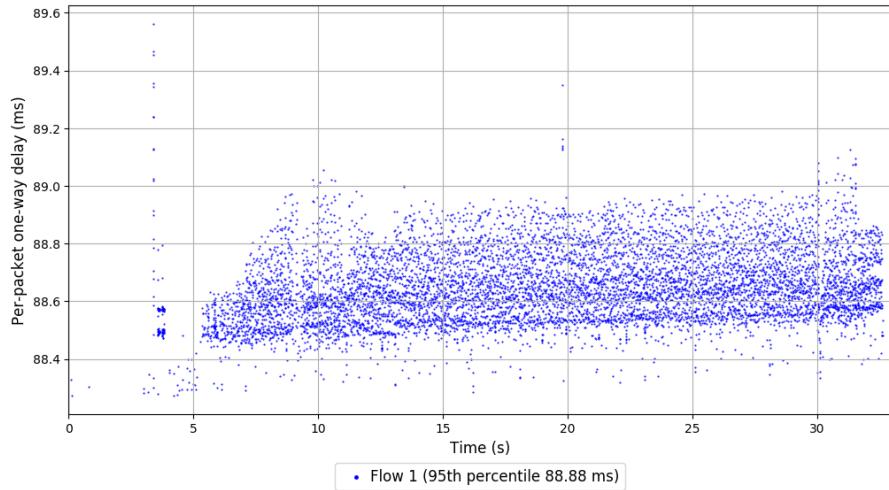
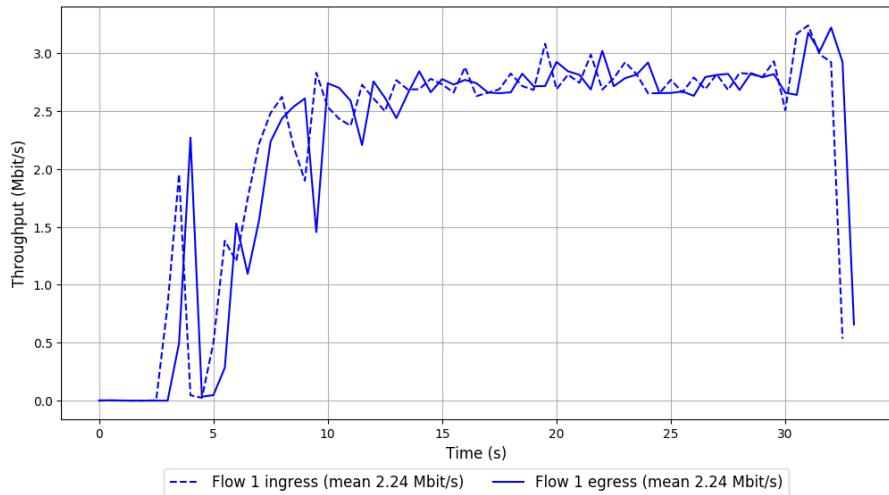


Run 2: Statistics of WebRTC media

```
Start at: 2019-05-30 06:21:59
End at: 2019-05-30 06:22:29
Local clock offset: -6.683 ms
Remote clock offset: 4.875 ms

# Below is generated by plot.py at 2019-05-30 07:54:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 88.881 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 88.881 ms
Loss rate: 0.32%
```

Run 2: Report of WebRTC media — Data Link

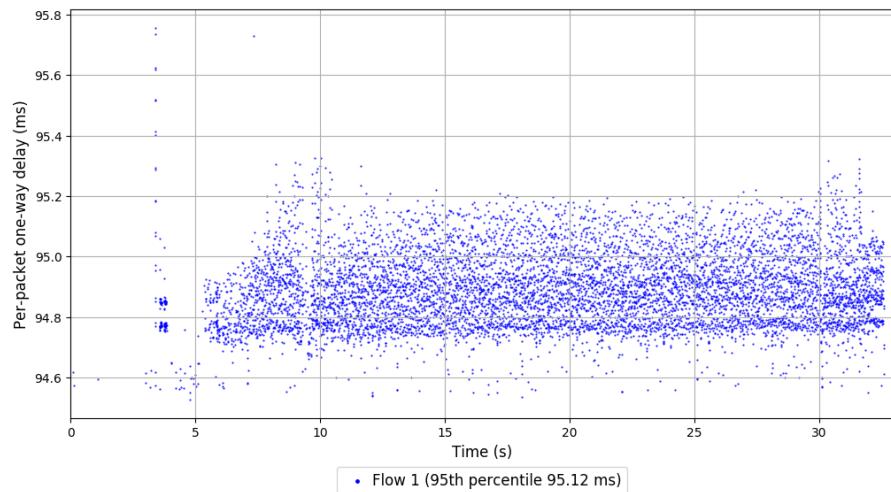
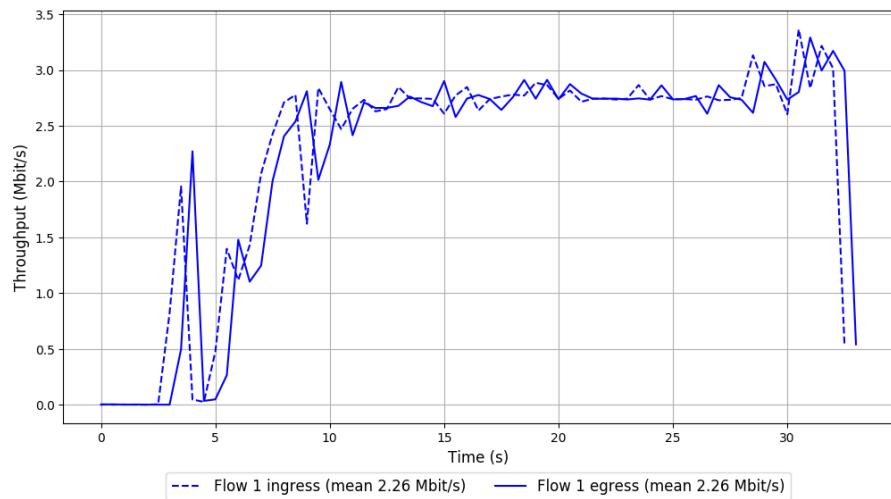


Run 3: Statistics of WebRTC media

```
Start at: 2019-05-30 06:46:54
End at: 2019-05-30 06:47:24
Local clock offset: -6.857 ms
Remote clock offset: 0.204 ms

# Below is generated by plot.py at 2019-05-30 07:54:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 95.117 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 95.117 ms
Loss rate: 0.34%
```

Run 3: Report of WebRTC media — Data Link

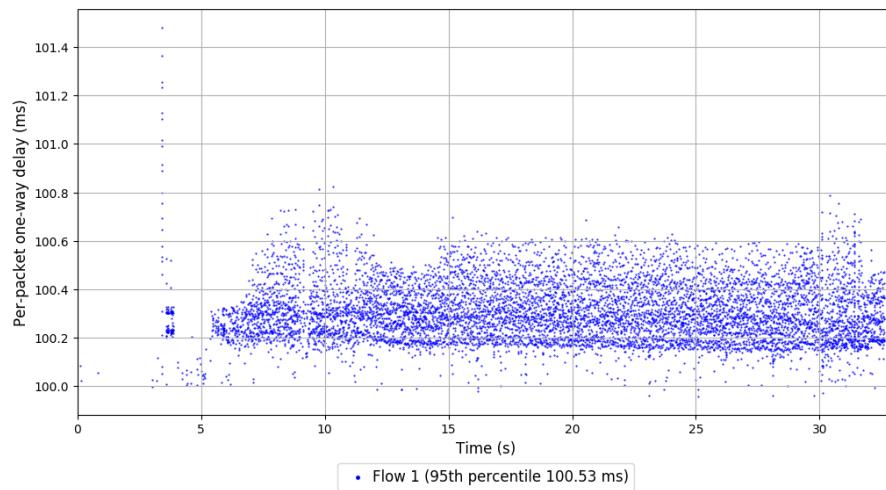
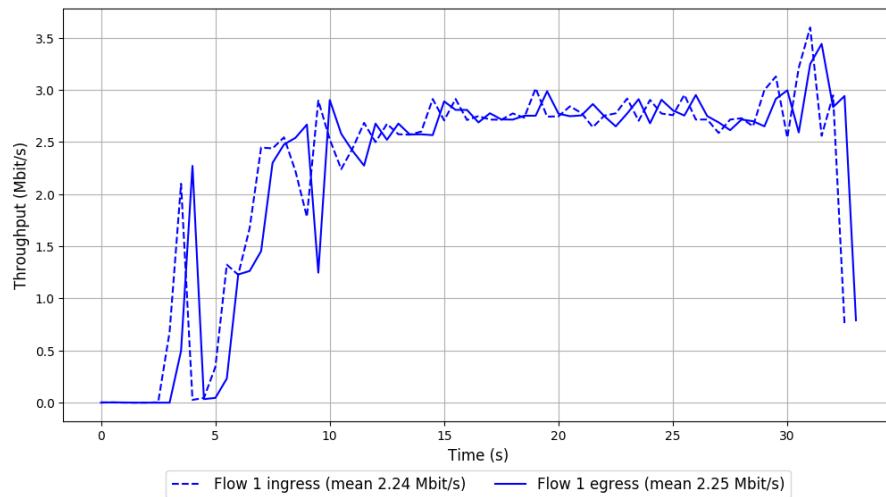


Run 4: Statistics of WebRTC media

```
Start at: 2019-05-30 07:11:49
End at: 2019-05-30 07:12:19
Local clock offset: -7.439 ms
Remote clock offset: 1.507 ms

# Below is generated by plot.py at 2019-05-30 07:54:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 100.534 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 100.534 ms
Loss rate: 0.38%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-05-30 07:36:44
End at: 2019-05-30 07:37:15
Local clock offset: -6.437 ms
Remote clock offset: 6.192 ms

# Below is generated by plot.py at 2019-05-30 07:54:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 95.712 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 95.712 ms
Loss rate: 0.31%
```

Run 5: Report of WebRTC media — Data Link

