

## Pantheon Report

Generated at 2019-03-27 08:53:08 (UTC).  
Data path: India on `em1` (*remote*) → AWS India 1 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 `nets.org.sg` and have been applied to correct the timestamps in logs.

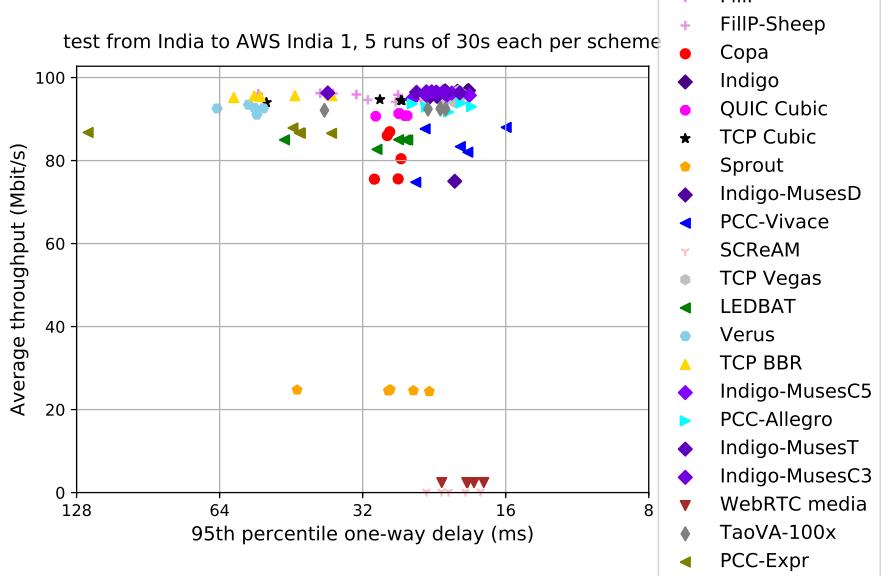
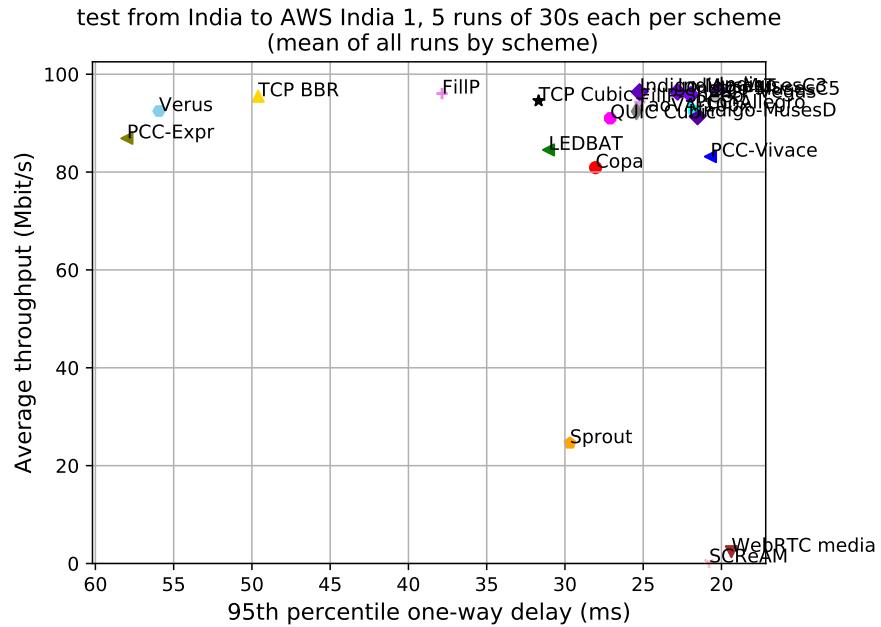
System info:

```
Linux 4.15.0-1034-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 @ d6da1459332fce56963885d7eba17e6a32d4519
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



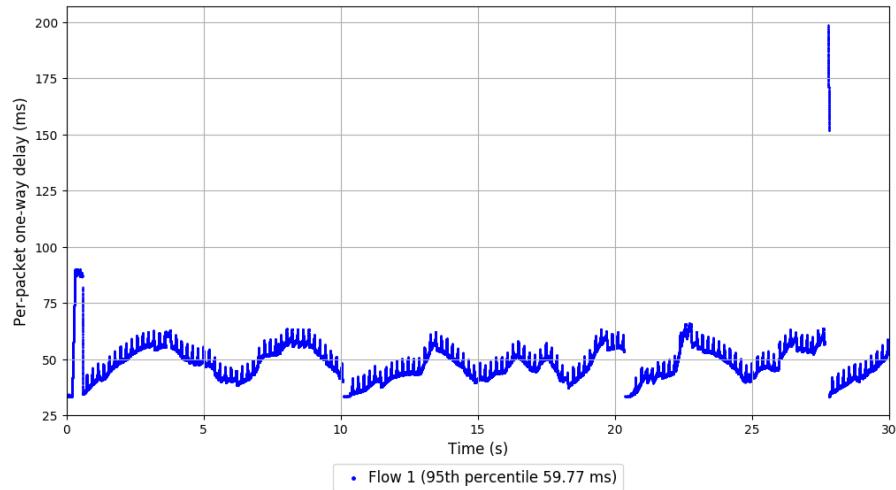
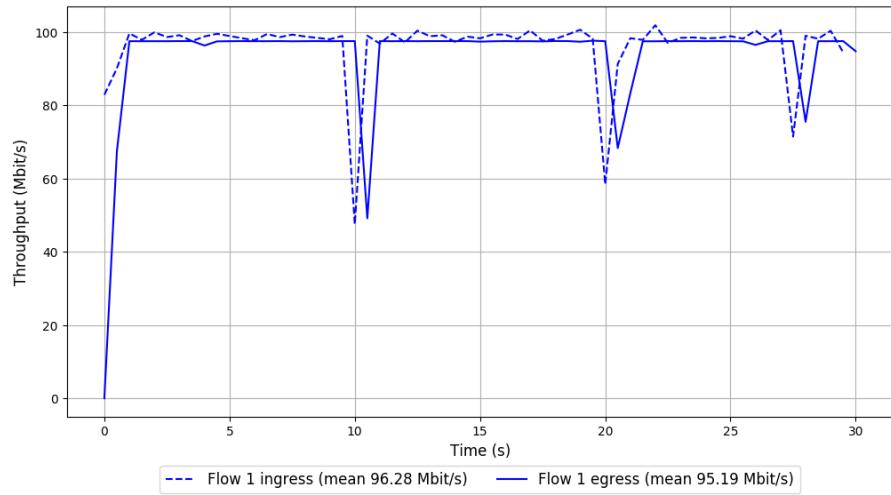
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	95.50	49.60	1.22
Copa	5	80.90	28.04	0.09
TCP Cubic	5	94.56	31.68	0.10
FillP	5	96.04	37.85	0.16
FillP-Sheep	5	94.31	25.21	0.10
Indigo	5	96.65	20.17	0.10
Indigo-MusesC3	5	96.39	22.80	0.09
Indigo-MusesC5	5	95.81	21.97	0.09
Indigo-MusesD	5	91.38	21.53	0.10
Indigo-MusesT	5	96.35	25.23	0.10
LEDBAT	5	84.53	31.05	0.09
PCC-Allegro	5	93.01	21.70	0.09
PCC-Expr	5	86.89	57.99	0.18
QUIC Cubic	5	90.99	27.11	0.12
SCReAM	5	0.21	20.79	0.13
Sprout	5	24.61	29.68	0.07
TaoVA-100x	5	92.40	25.43	0.10
TCP Vegas	5	95.21	20.33	0.11
Verus	5	92.47	55.94	0.28
PCC-Vivace	5	83.16	20.70	0.09
WebRTC media	5	2.40	19.37	0.10

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-27 06:38:16
End at: 2019-03-27 06:38:46
Local clock offset: 0.1 ms
Remote clock offset: -13.891 ms

# Below is generated by plot.py at 2019-03-27 08:40:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: 59.768 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: 59.768 ms
Loss rate: 1.23%
```

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

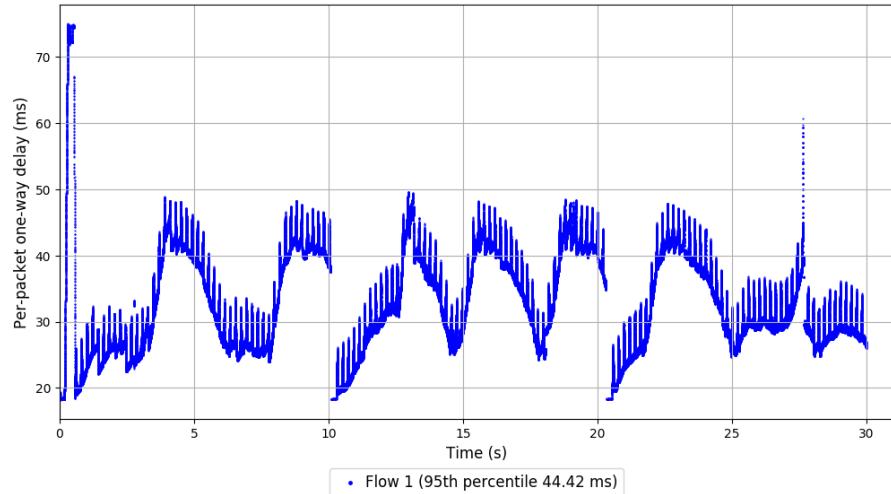
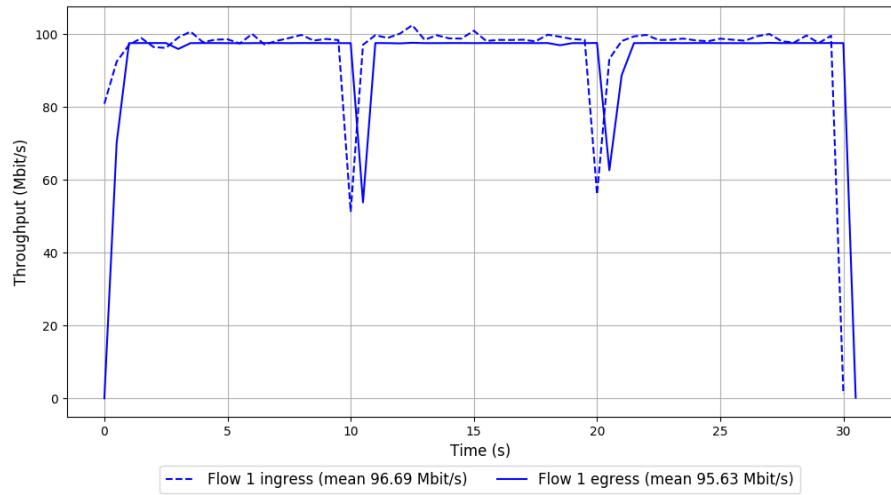


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-27 07:04:22
End at: 2019-03-27 07:04:52
Local clock offset: -0.547 ms
Remote clock offset: -2.058 ms

# Below is generated by plot.py at 2019-03-27 08:40:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 44.423 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 44.423 ms
Loss rate: 1.18%
```

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

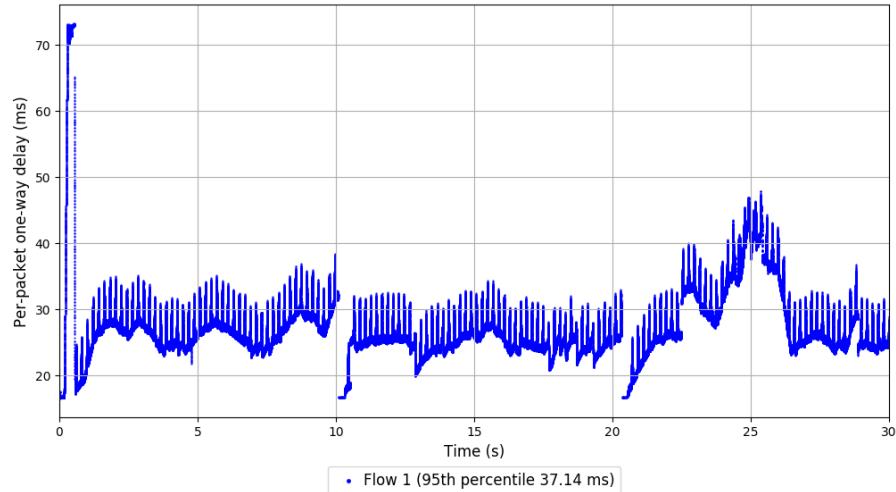
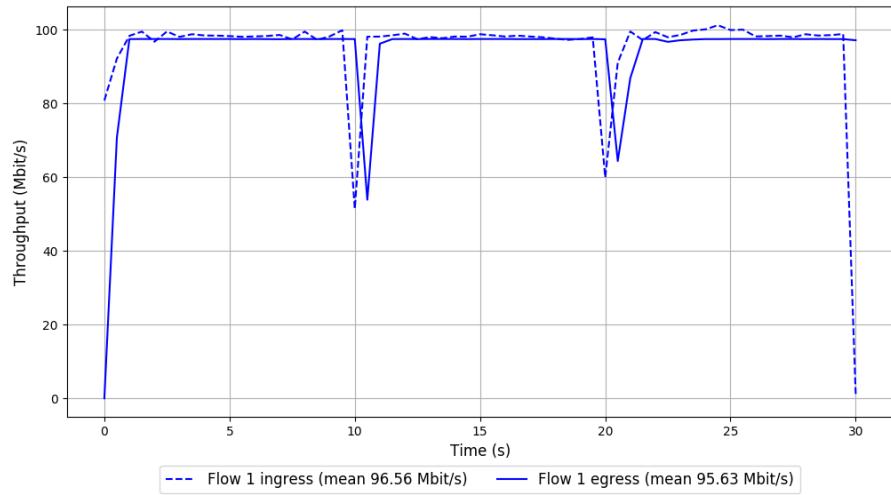


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-27 07:30:42
End at: 2019-03-27 07:31:12
Local clock offset: -0.237 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-03-27 08:40:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 37.136 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 37.136 ms
Loss rate: 1.05%
```

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

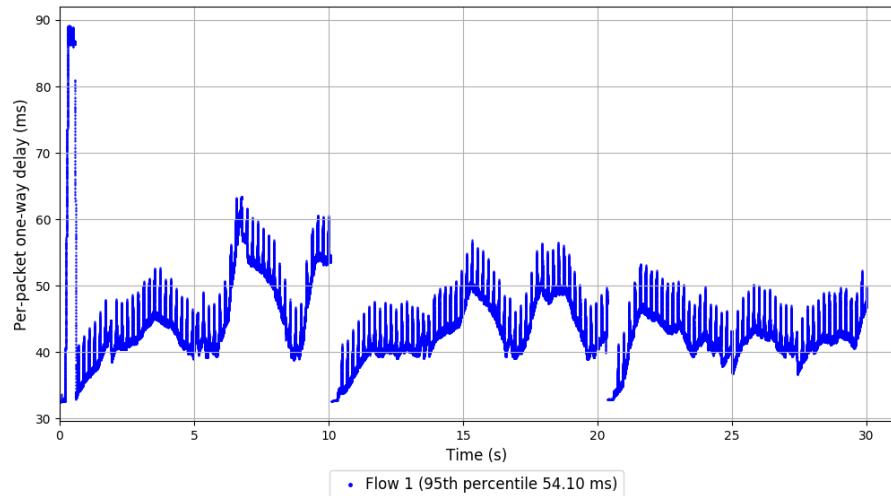
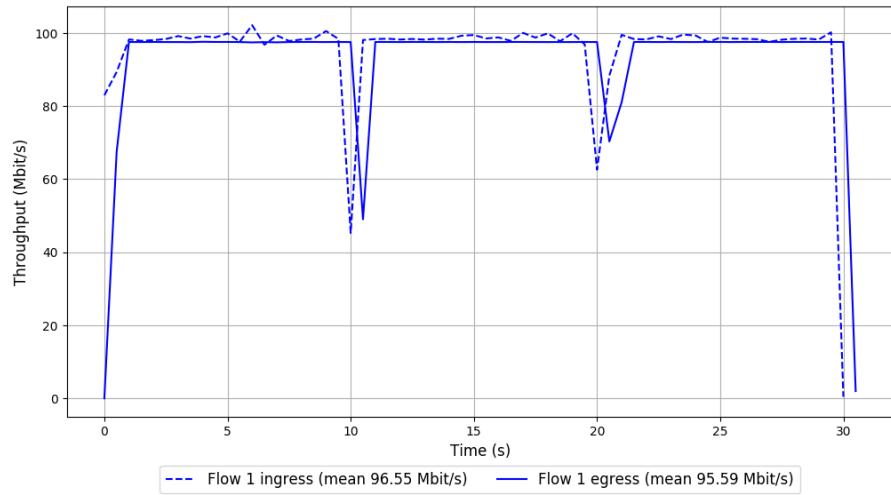


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-27 07:55:16
End at: 2019-03-27 07:55:46
Local clock offset: 0.437 ms
Remote clock offset: -12.252 ms

# Below is generated by plot.py at 2019-03-27 08:40:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 54.104 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 54.104 ms
Loss rate: 1.08%
```

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

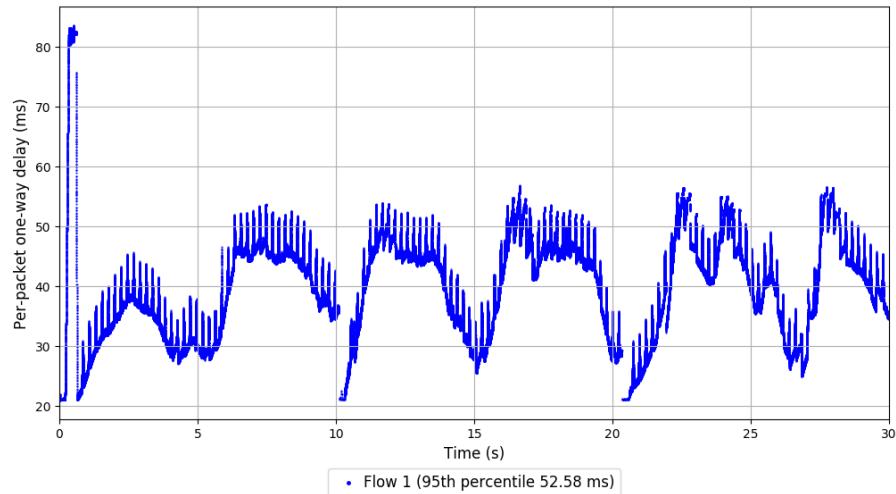
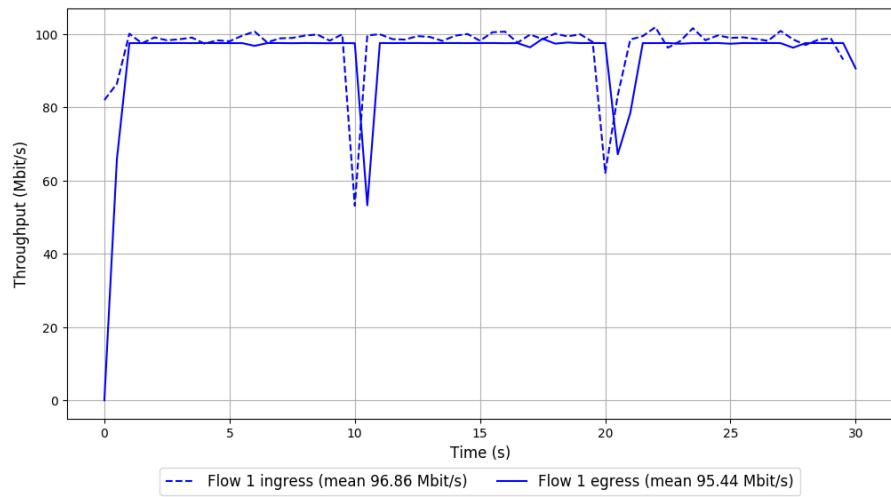


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-27 08:19:52
End at: 2019-03-27 08:20:22
Local clock offset: -1.395 ms
Remote clock offset: 2.467 ms

# Below is generated by plot.py at 2019-03-27 08:40:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 52.578 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 52.578 ms
Loss rate: 1.56%
```

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

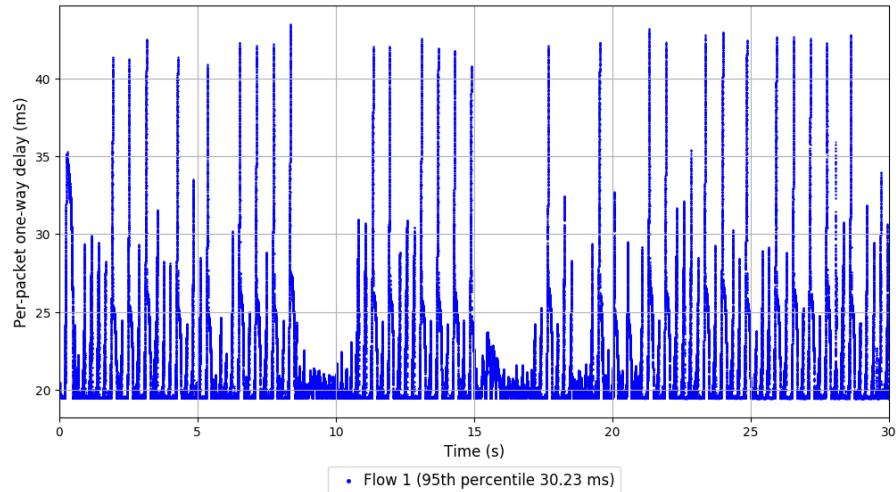
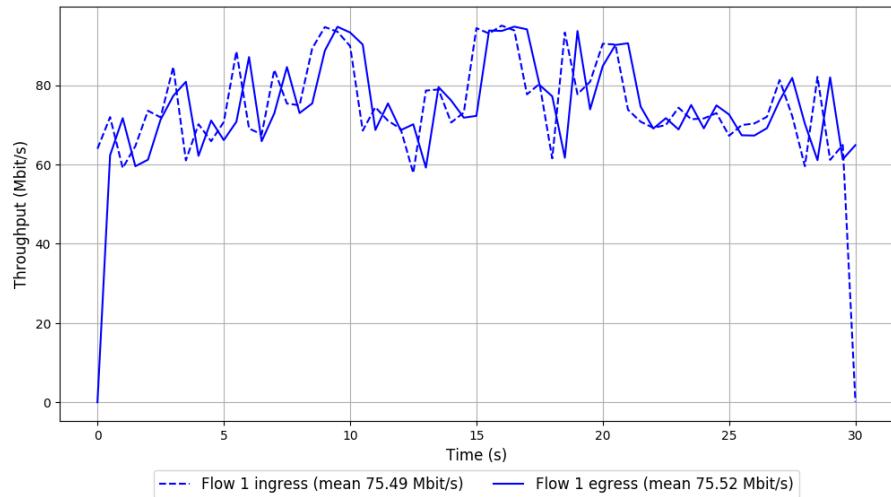


Run 1: Statistics of Copa

```
Start at: 2019-03-27 06:39:32
End at: 2019-03-27 06:40:02
Local clock offset: -0.853 ms
Remote clock offset: -0.906 ms

# Below is generated by plot.py at 2019-03-27 08:40:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.52 Mbit/s
95th percentile per-packet one-way delay: 30.233 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 75.52 Mbit/s
95th percentile per-packet one-way delay: 30.233 ms
Loss rate: 0.05%
```

### Run 1: Report of Copa — Data Link

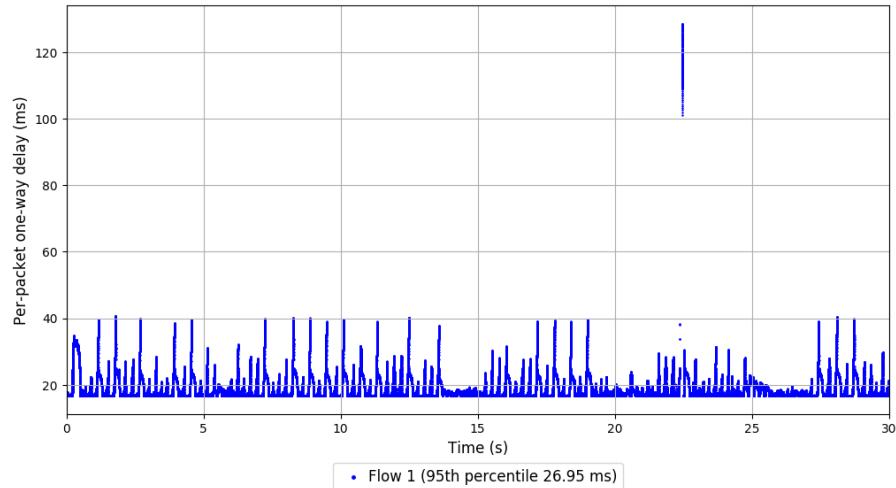
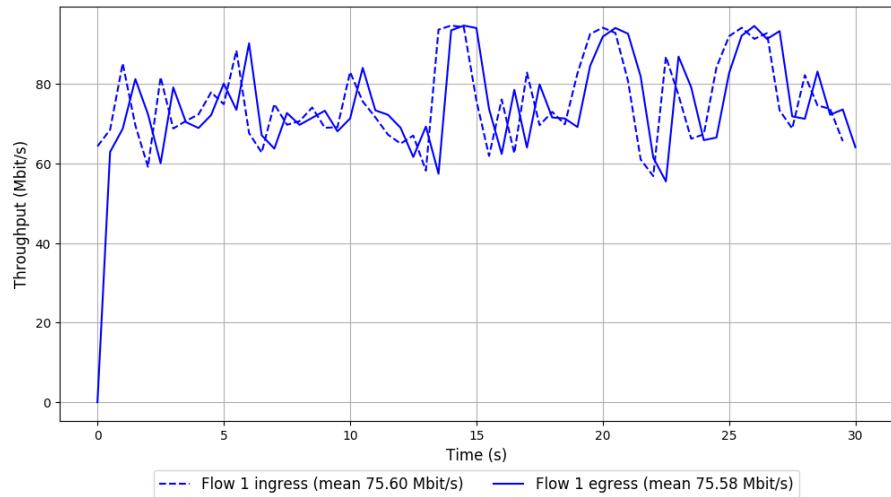


Run 2: Statistics of Copa

```
Start at: 2019-03-27 07:05:35
End at: 2019-03-27 07:06:05
Local clock offset: -0.373 ms
Remote clock offset: -0.498 ms

# Below is generated by plot.py at 2019-03-27 08:40:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.58 Mbit/s
95th percentile per-packet one-way delay: 26.946 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 75.58 Mbit/s
95th percentile per-packet one-way delay: 26.946 ms
Loss rate: 0.11%
```

## Run 2: Report of Copa — Data Link

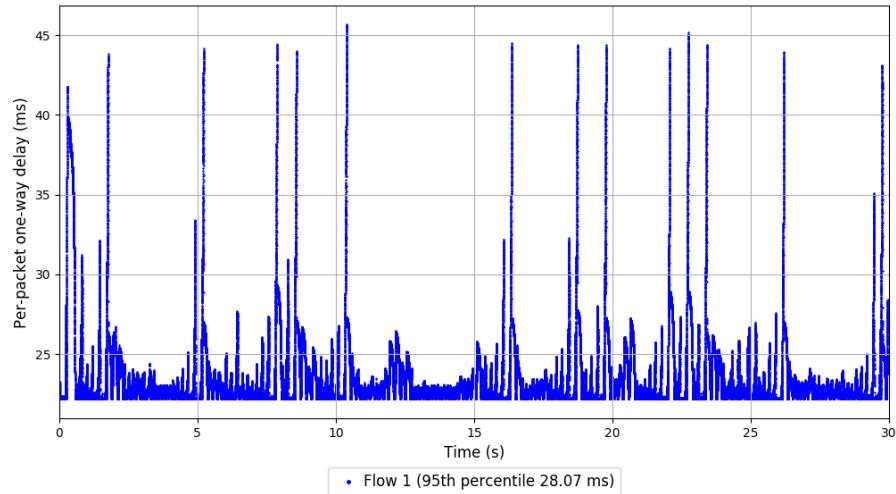
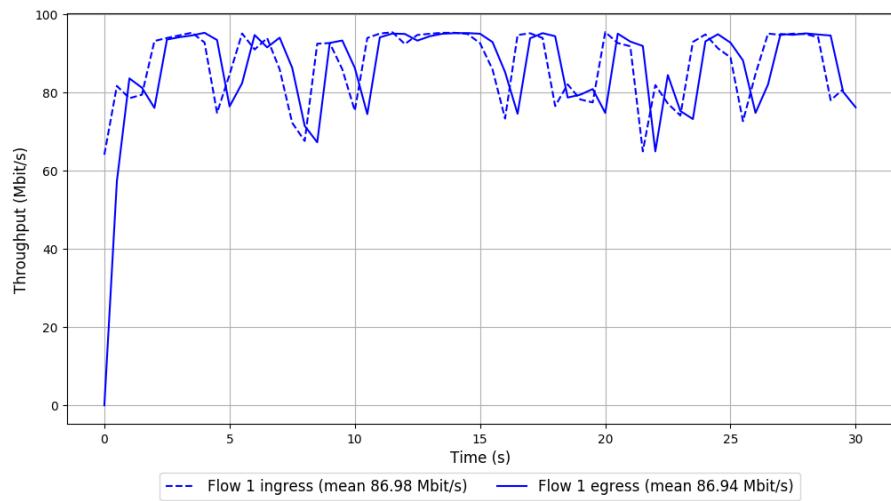


Run 3: Statistics of Copa

```
Start at: 2019-03-27 07:31:54
End at: 2019-03-27 07:32:24
Local clock offset: 2.212 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-03-27 08:41:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.94 Mbit/s
95th percentile per-packet one-way delay: 28.071 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 86.94 Mbit/s
95th percentile per-packet one-way delay: 28.071 ms
Loss rate: 0.14%
```

### Run 3: Report of Copa — Data Link

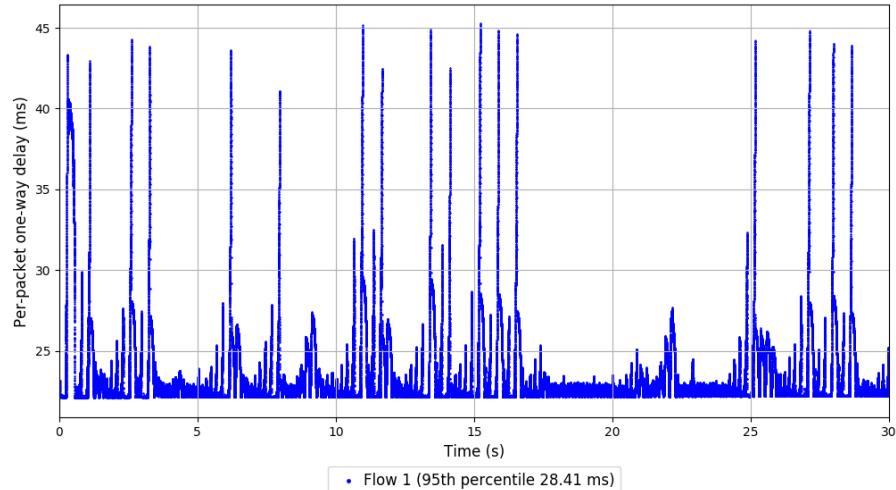
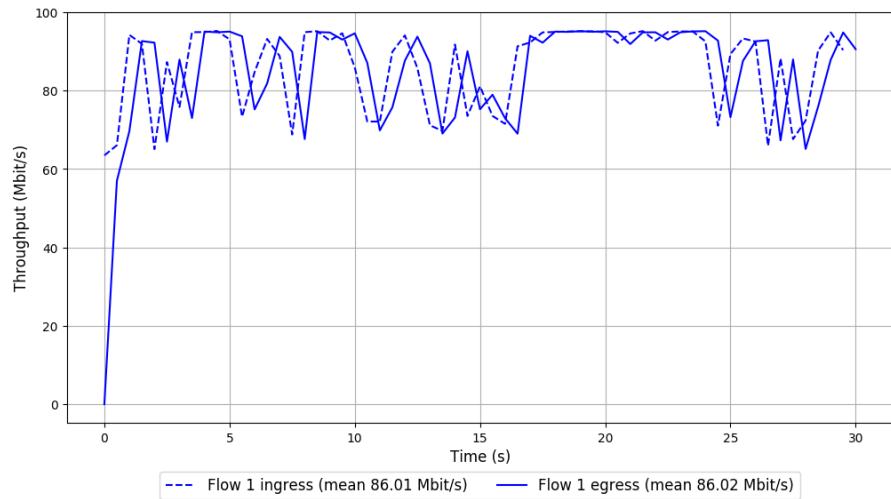


Run 4: Statistics of Copa

```
Start at: 2019-03-27 07:56:28
End at: 2019-03-27 07:56:58
Local clock offset: 0.202 ms
Remote clock offset: 1.377 ms

# Below is generated by plot.py at 2019-03-27 08:42:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.02 Mbit/s
95th percentile per-packet one-way delay: 28.405 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 86.02 Mbit/s
95th percentile per-packet one-way delay: 28.405 ms
Loss rate: 0.08%
```

### Run 4: Report of Copa — Data Link

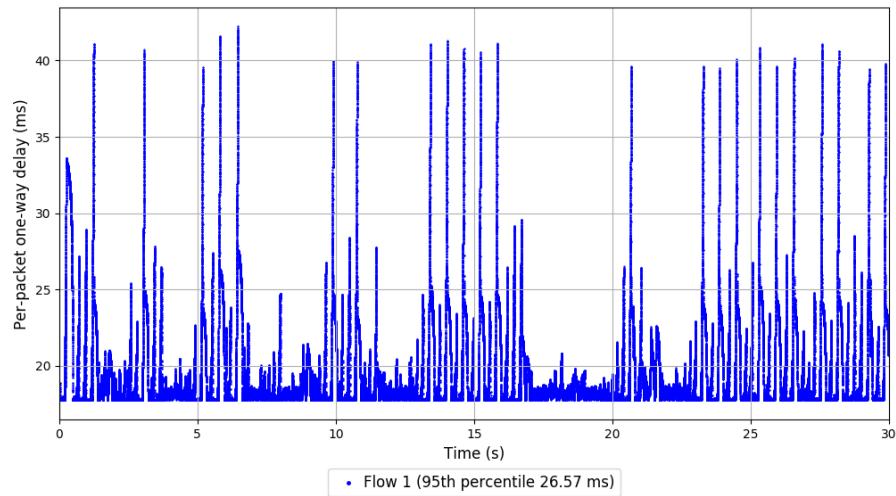
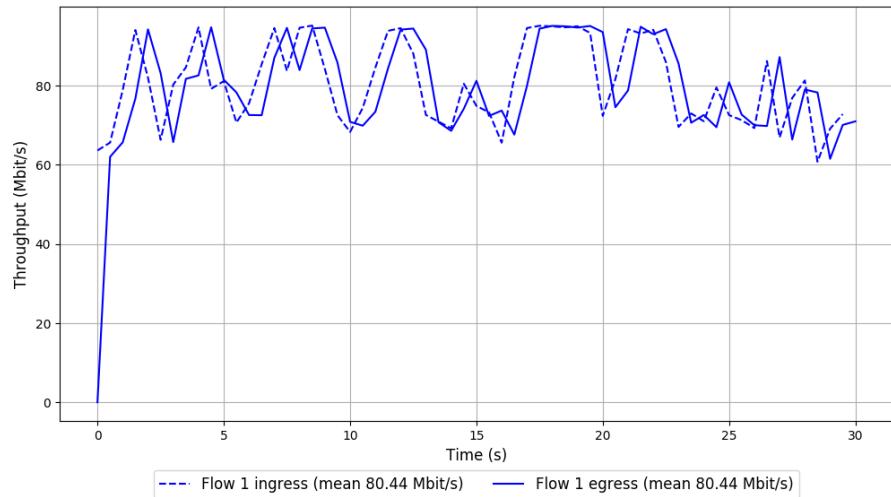


Run 5: Statistics of Copa

```
Start at: 2019-03-27 08:21:05
End at: 2019-03-27 08:21:35
Local clock offset: -1.54 ms
Remote clock offset: 2.48 ms

# Below is generated by plot.py at 2019-03-27 08:42:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.44 Mbit/s
95th percentile per-packet one-way delay: 26.568 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 80.44 Mbit/s
95th percentile per-packet one-way delay: 26.568 ms
Loss rate: 0.09%
```

### Run 5: Report of Copa — Data Link

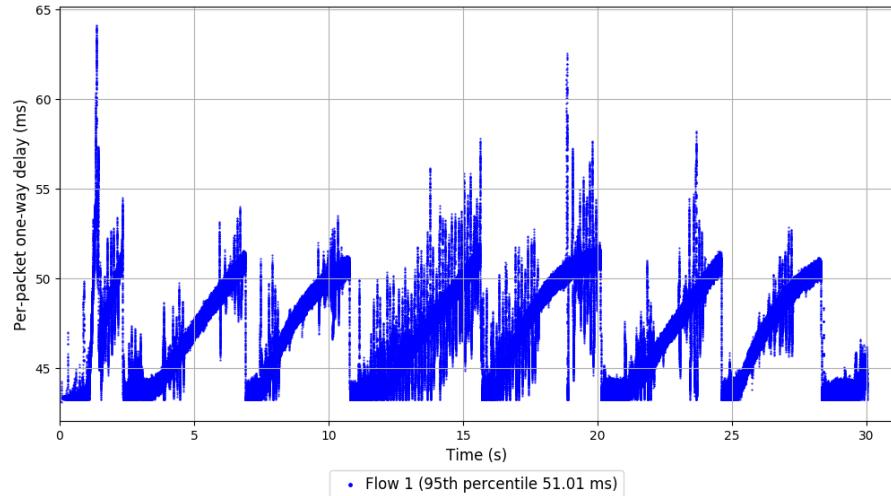
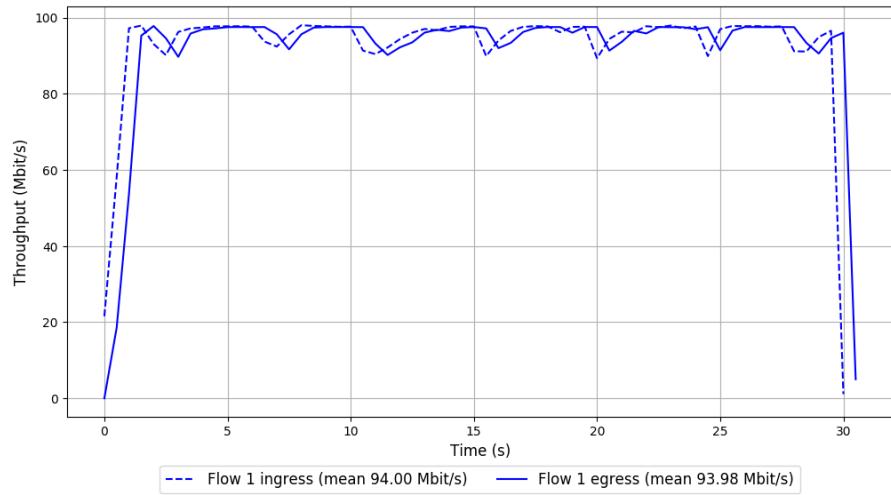


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-03-27 06:43:43
End at: 2019-03-27 06:44:13
Local clock offset: 0.551 ms
Remote clock offset: -23.382 ms

# Below is generated by plot.py at 2019-03-27 08:42:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.98 Mbit/s
95th percentile per-packet one-way delay: 51.008 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.98 Mbit/s
95th percentile per-packet one-way delay: 51.008 ms
Loss rate: 0.09%
```

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

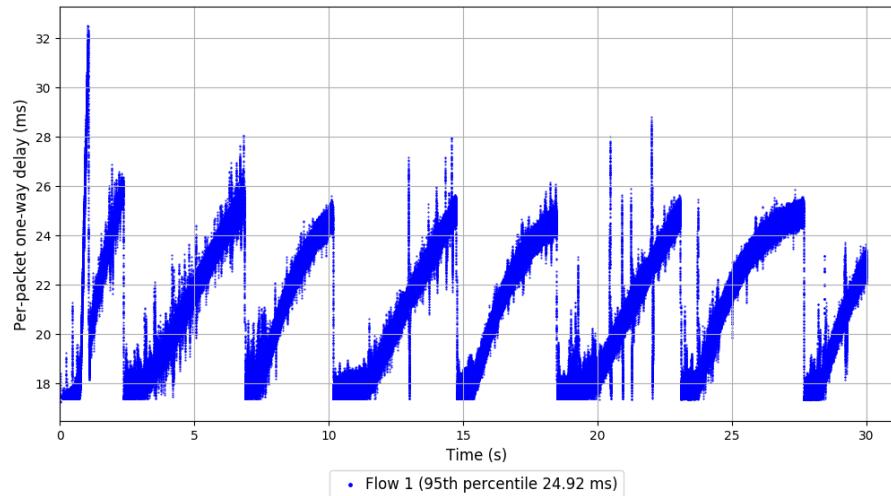
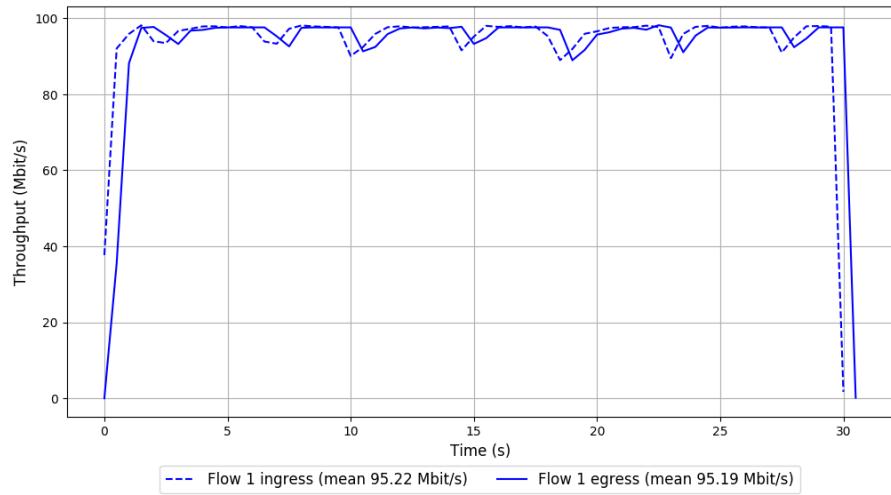


Run 2: Statistics of TCP Cubic

```
Start at: 2019-03-27 07:09:48
End at: 2019-03-27 07:10:18
Local clock offset: 0.08 ms
Remote clock offset: -1.087 ms

# Below is generated by plot.py at 2019-03-27 08:42:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: 24.921 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: 24.921 ms
Loss rate: 0.11%
```

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

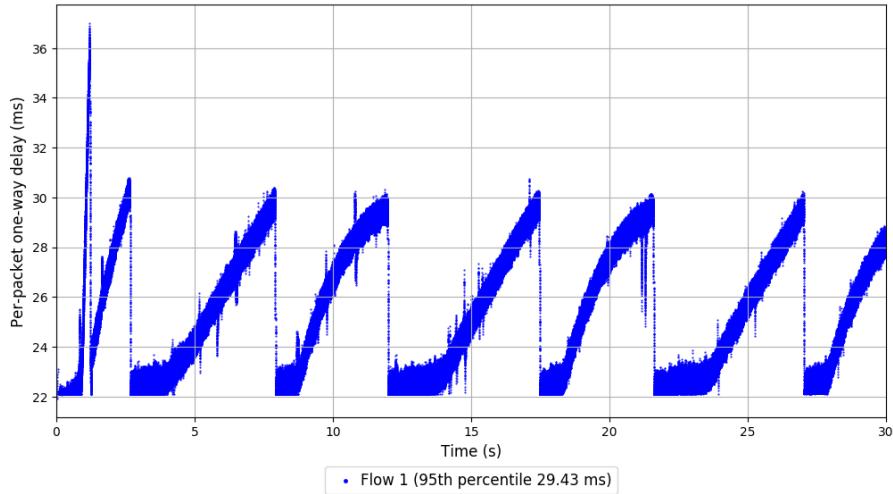
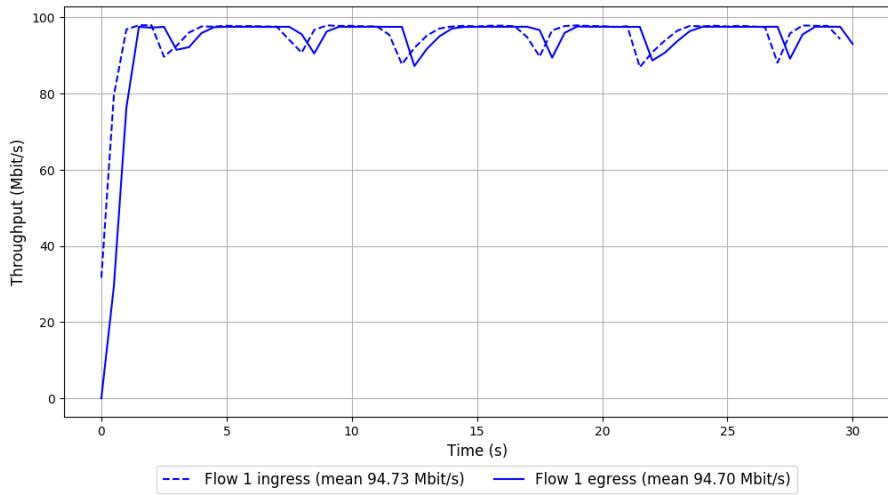


Run 3: Statistics of TCP Cubic

```
Start at: 2019-03-27 07:35:28
End at: 2019-03-27 07:35:58
Local clock offset: 2.024 ms
Remote clock offset: 0.086 ms

# Below is generated by plot.py at 2019-03-27 08:42:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.70 Mbit/s
95th percentile per-packet one-way delay: 29.435 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 94.70 Mbit/s
95th percentile per-packet one-way delay: 29.435 ms
Loss rate: 0.12%
```

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

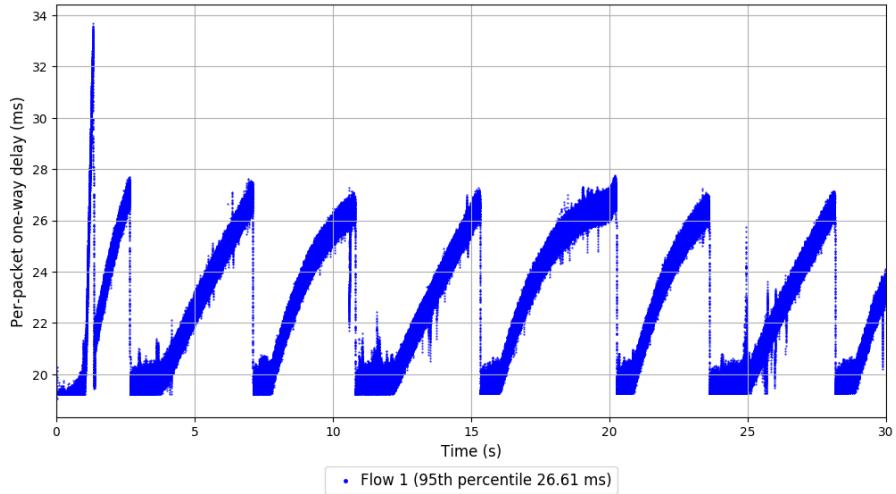
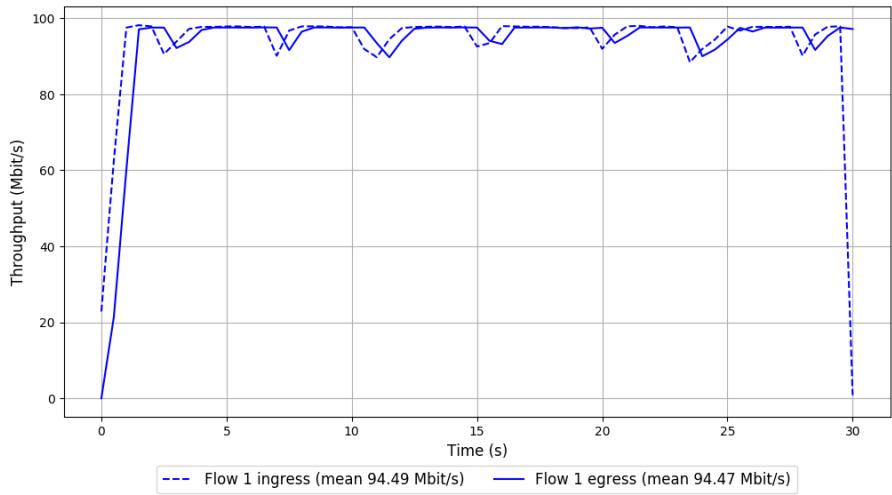


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-27 08:00:04
End at: 2019-03-27 08:00:34
Local clock offset: -0.587 ms
Remote clock offset: 0.804 ms

# Below is generated by plot.py at 2019-03-27 08:42:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.47 Mbit/s
95th percentile per-packet one-way delay: 26.606 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 94.47 Mbit/s
95th percentile per-packet one-way delay: 26.606 ms
Loss rate: 0.10%
```

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

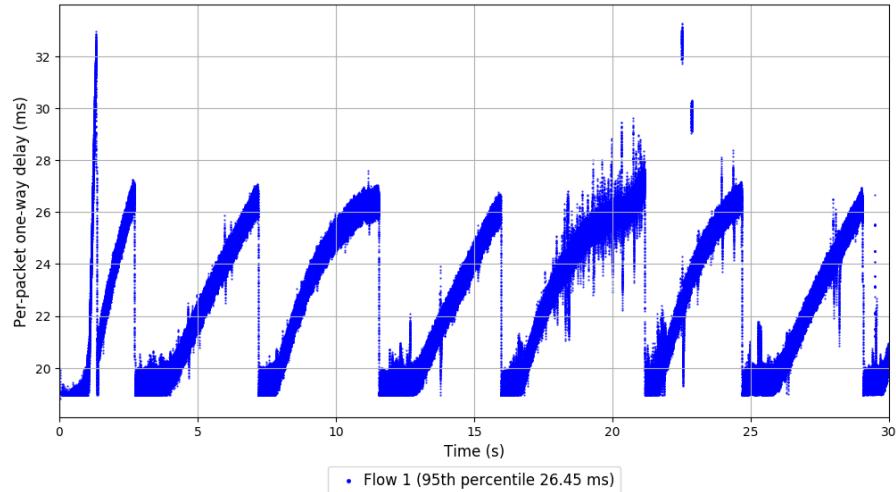
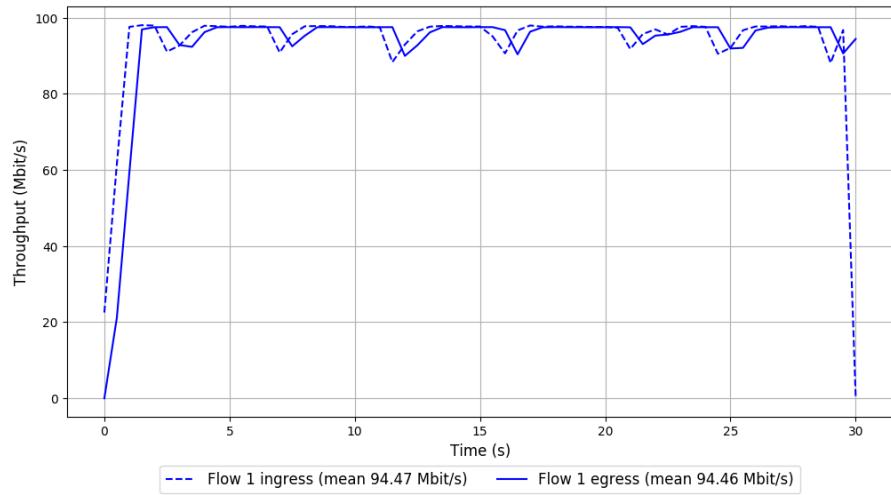


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-27 08:24:51
End at: 2019-03-27 08:25:21
Local clock offset: -1.577 ms
Remote clock offset: 1.478 ms

# Below is generated by plot.py at 2019-03-27 08:42:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: 26.448 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: 26.448 ms
Loss rate: 0.10%
```

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

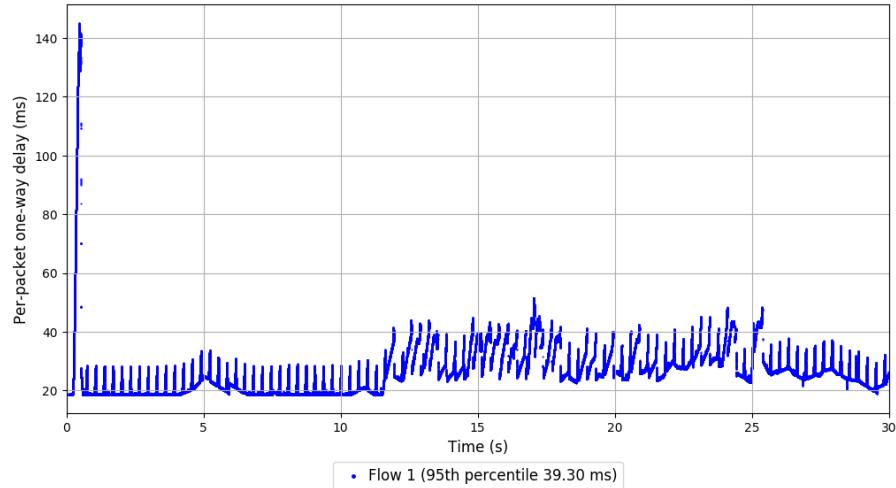
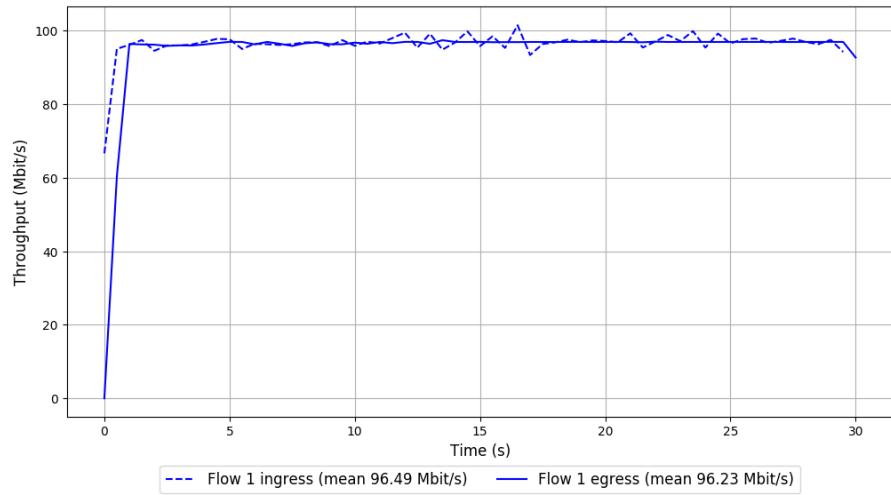


```
Run 1: Statistics of FillP
```

```
Start at: 2019-03-27 06:31:04
End at: 2019-03-27 06:31:34
Local clock offset: -0.991 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-03-27 08:42:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 39.304 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 39.304 ms
Loss rate: 0.36%
```

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

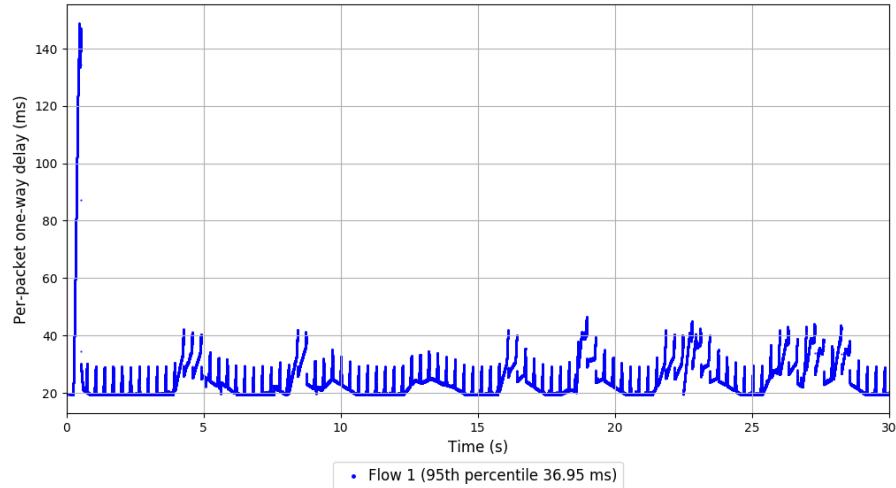
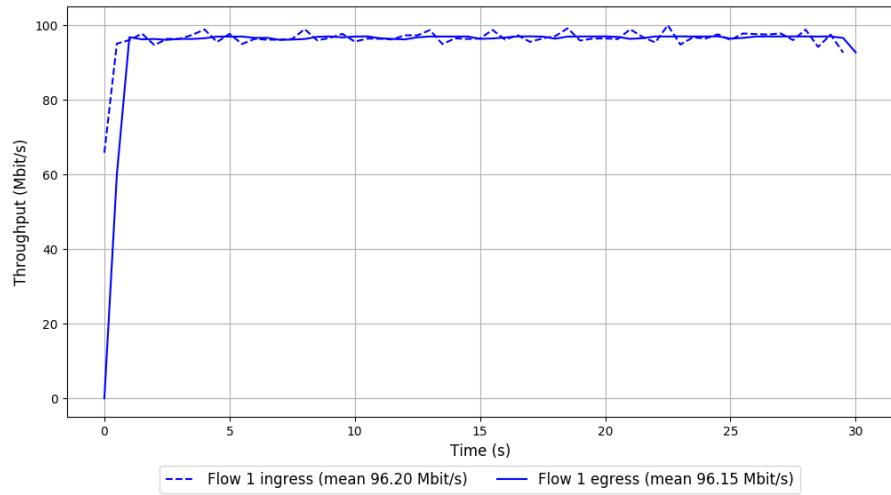


Run 2: Statistics of FillP

```
Start at: 2019-03-27 06:57:12
End at: 2019-03-27 06:57:42
Local clock offset: -1.852 ms
Remote clock offset: -3.963 ms

# Below is generated by plot.py at 2019-03-27 08:42:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 36.954 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 36.954 ms
Loss rate: 0.13%
```

## Run 2: Report of FillP — Data Link

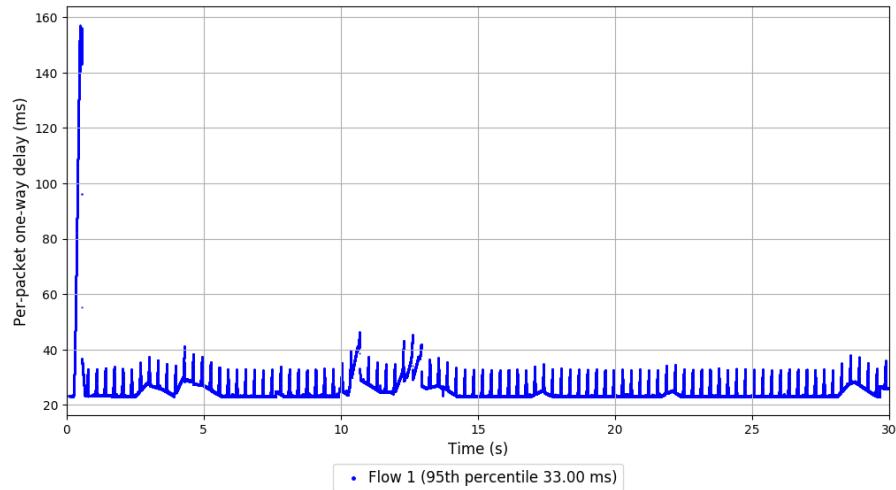
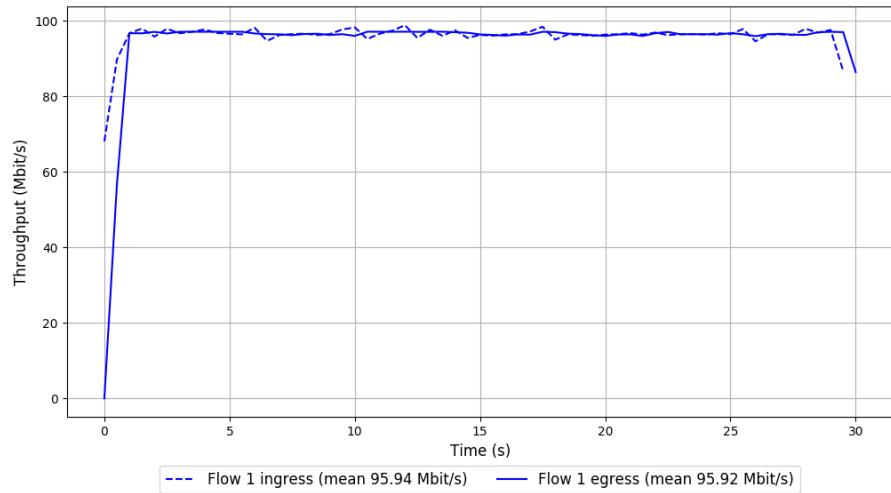


Run 3: Statistics of FillP

```
Start at: 2019-03-27 07:23:42
End at: 2019-03-27 07:24:12
Local clock offset: 2.46 ms
Remote clock offset: -0.991 ms

# Below is generated by plot.py at 2019-03-27 08:42:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 32.996 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 32.996 ms
Loss rate: 0.11%
```

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

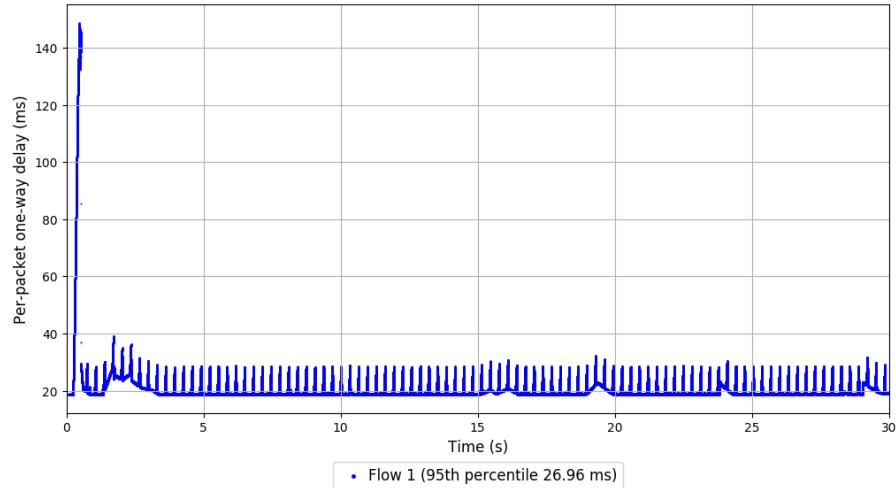
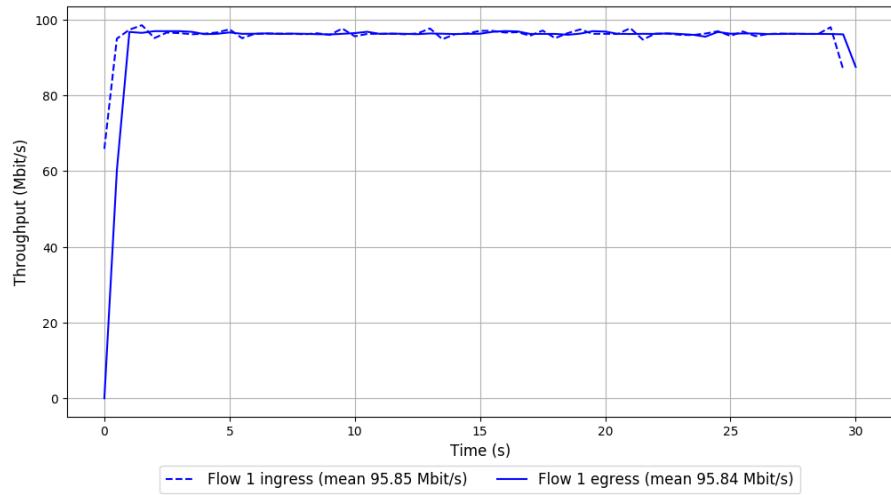


Run 4: Statistics of FillP

```
Start at: 2019-03-27 07:48:17
End at: 2019-03-27 07:48:47
Local clock offset: -0.015 ms
Remote clock offset: -0.431 ms

# Below is generated by plot.py at 2019-03-27 08:42:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 26.961 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 26.961 ms
Loss rate: 0.09%
```

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

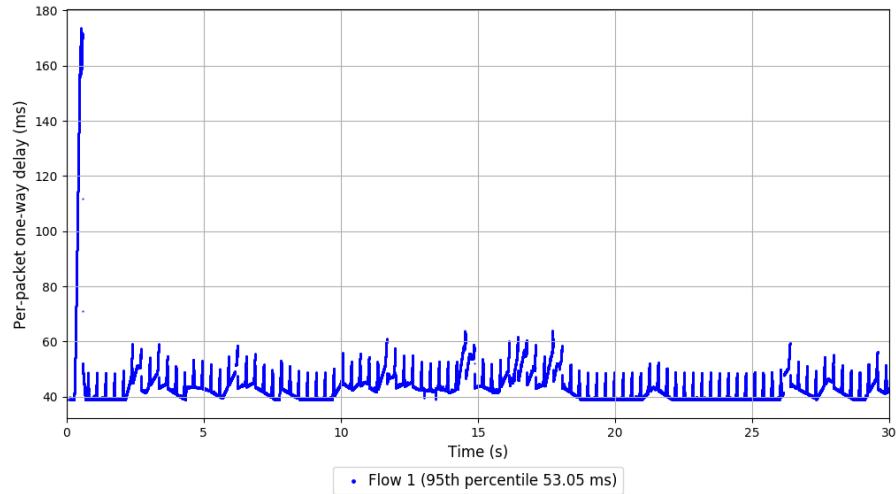
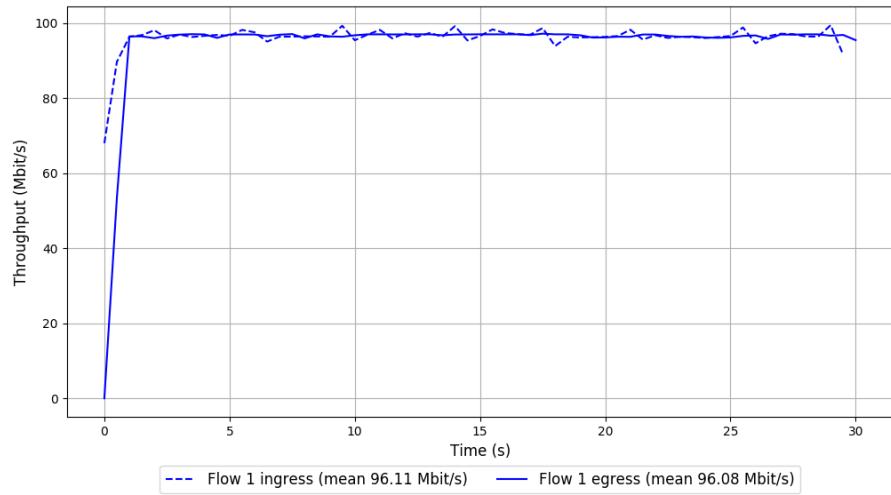


Run 5: Statistics of FillP

```
Start at: 2019-03-27 08:12:46
End at: 2019-03-27 08:13:16
Local clock offset: -0.099 ms
Remote clock offset: -14.574 ms

# Below is generated by plot.py at 2019-03-27 08:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 53.052 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 53.052 ms
Loss rate: 0.12%
```

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

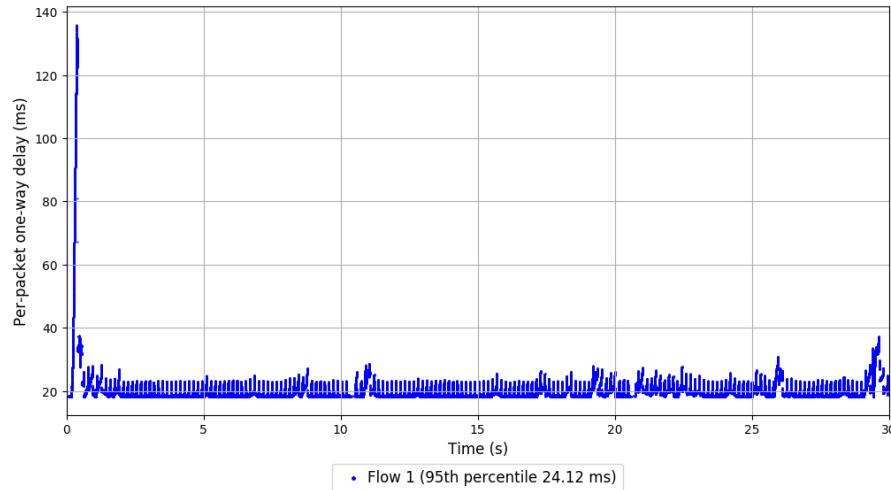
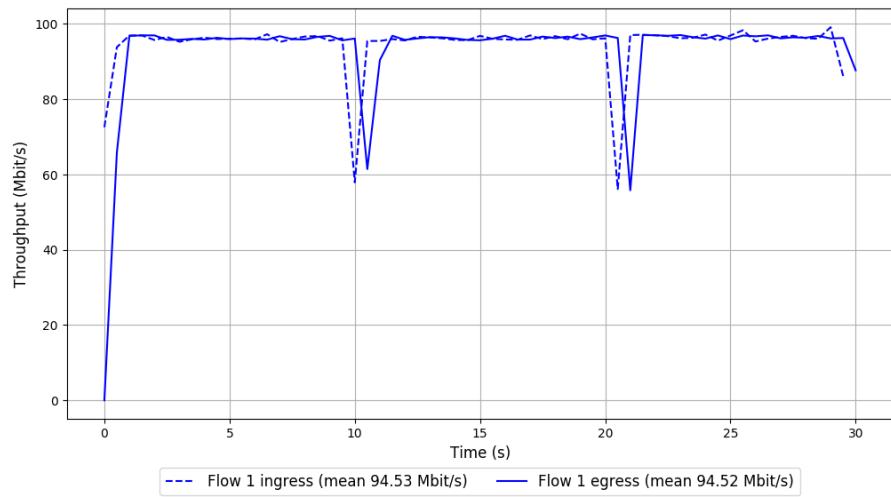


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-03-27 06:35:50
End at: 2019-03-27 06:36:20
Local clock offset: -1.325 ms
Remote clock offset: -0.364 ms

# Below is generated by plot.py at 2019-03-27 08:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.52 Mbit/s
95th percentile per-packet one-way delay: 24.121 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.52 Mbit/s
95th percentile per-packet one-way delay: 24.121 ms
Loss rate: 0.09%
```

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

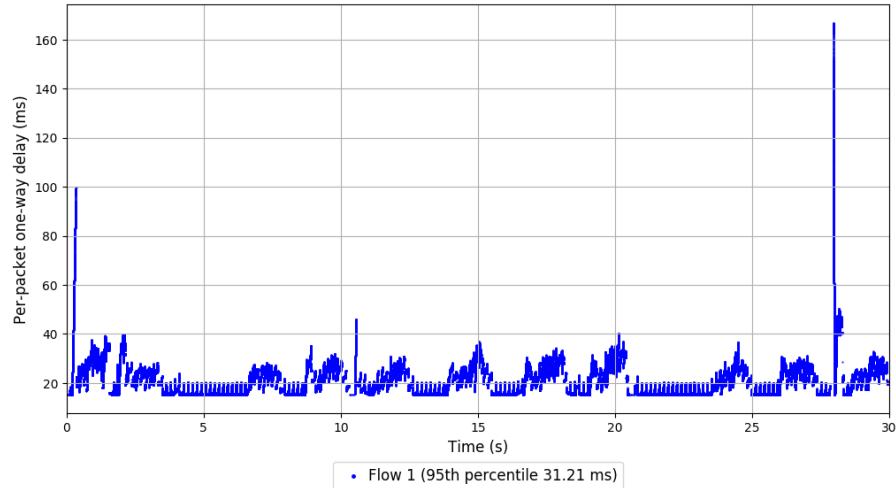
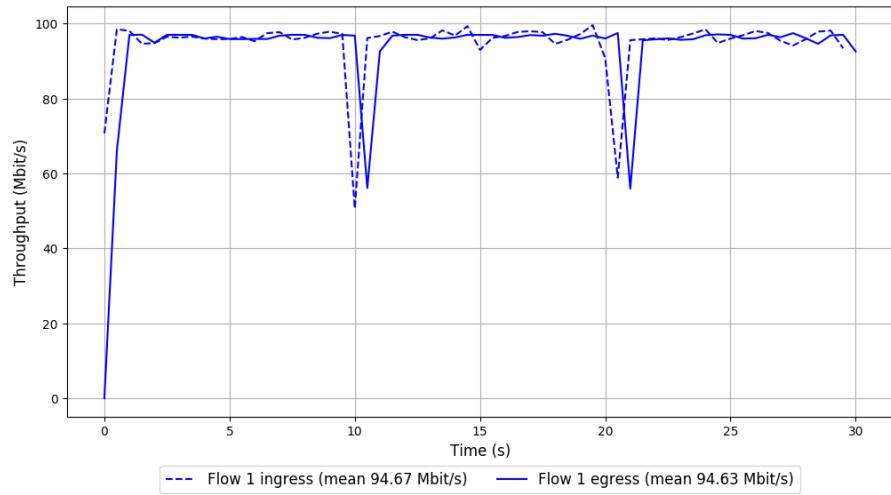


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-27 07:02:02
End at: 2019-03-27 07:02:32
Local clock offset: -0.694 ms
Remote clock offset: 0.768 ms

# Below is generated by plot.py at 2019-03-27 08:43:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 31.208 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 31.208 ms
Loss rate: 0.13%
```

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

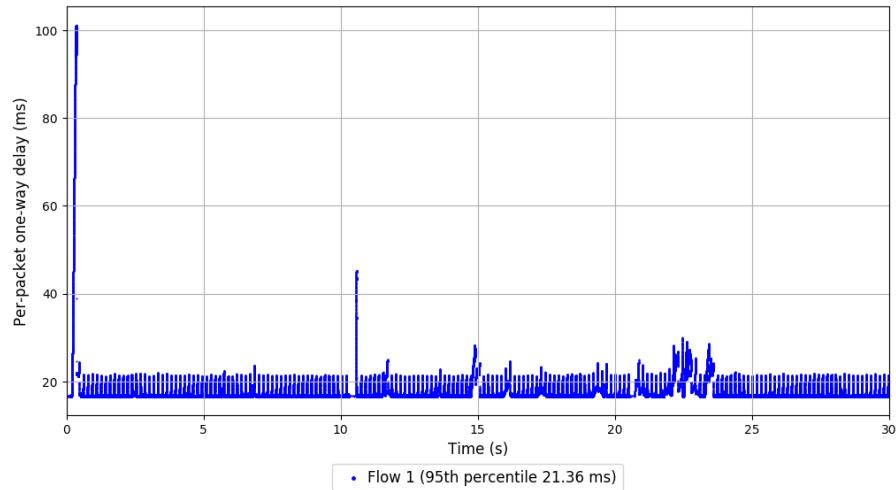
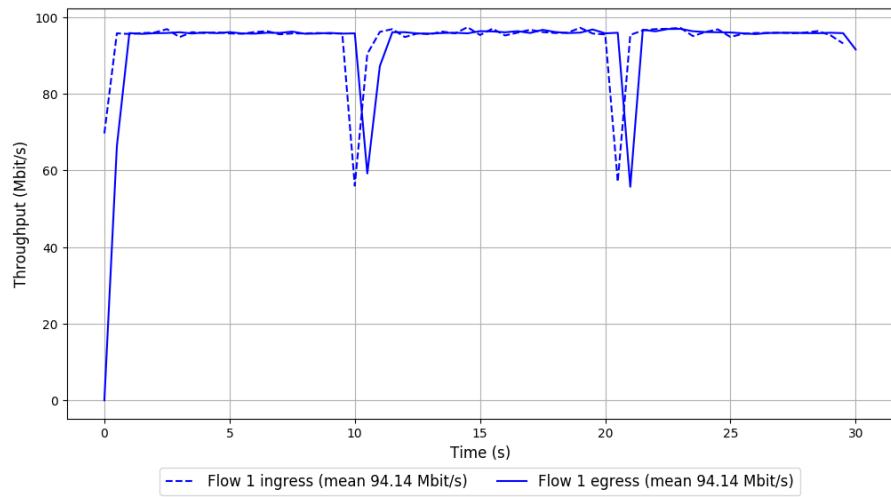


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-27 07:28:22
End at: 2019-03-27 07:28:52
Local clock offset: 0.025 ms
Remote clock offset: 0.265 ms

# Below is generated by plot.py at 2019-03-27 08:43:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 21.363 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 21.363 ms
Loss rate: 0.09%
```

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

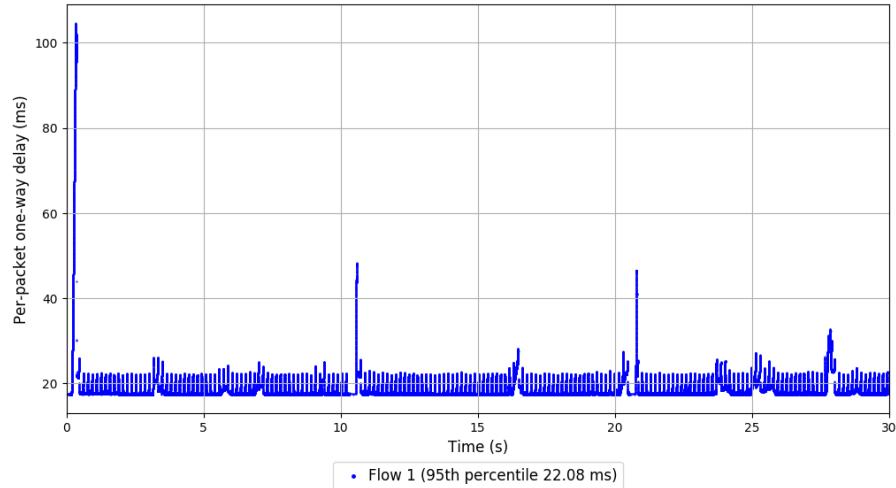
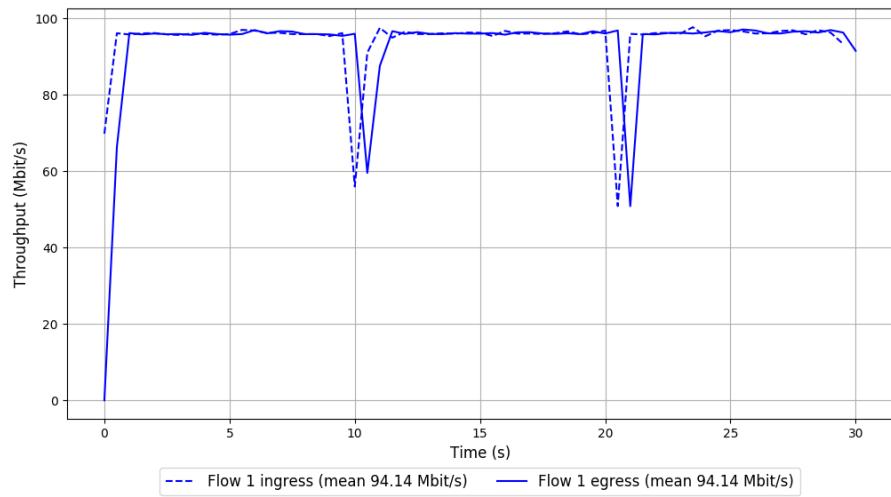


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-27 07:52:57
End at: 2019-03-27 07:53:27
Local clock offset: 0.141 ms
Remote clock offset: 2.141 ms

# Below is generated by plot.py at 2019-03-27 08:43:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 22.077 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 22.077 ms
Loss rate: 0.09%
```

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

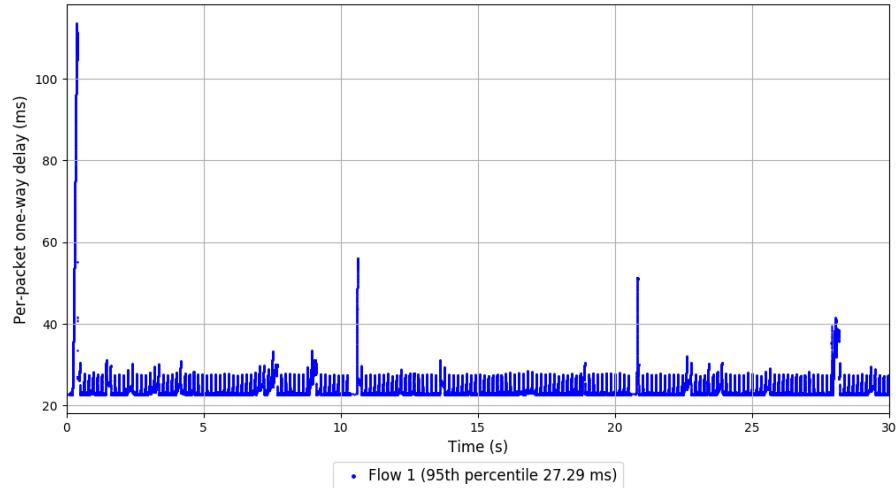
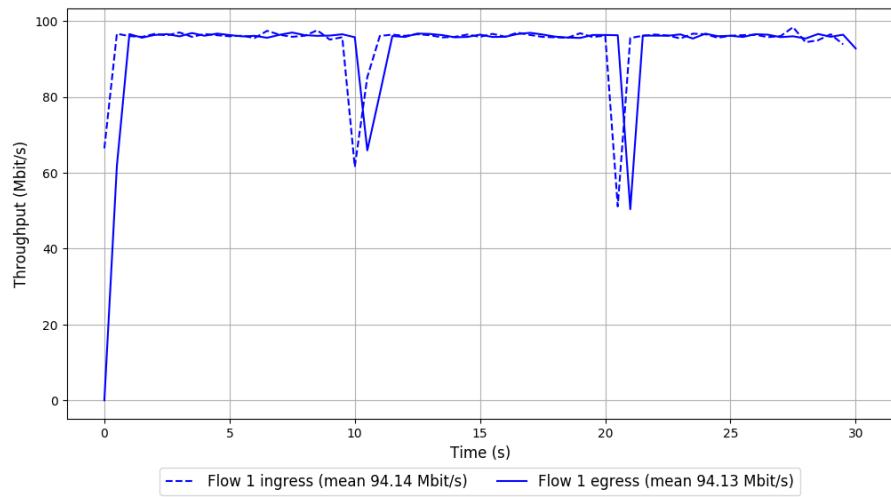


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-27 08:17:32
End at: 2019-03-27 08:18:02
Local clock offset: -1.401 ms
Remote clock offset: 0.629 ms

# Below is generated by plot.py at 2019-03-27 08:43:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.13 Mbit/s
95th percentile per-packet one-way delay: 27.293 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 94.13 Mbit/s
95th percentile per-packet one-way delay: 27.293 ms
Loss rate: 0.10%
```

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

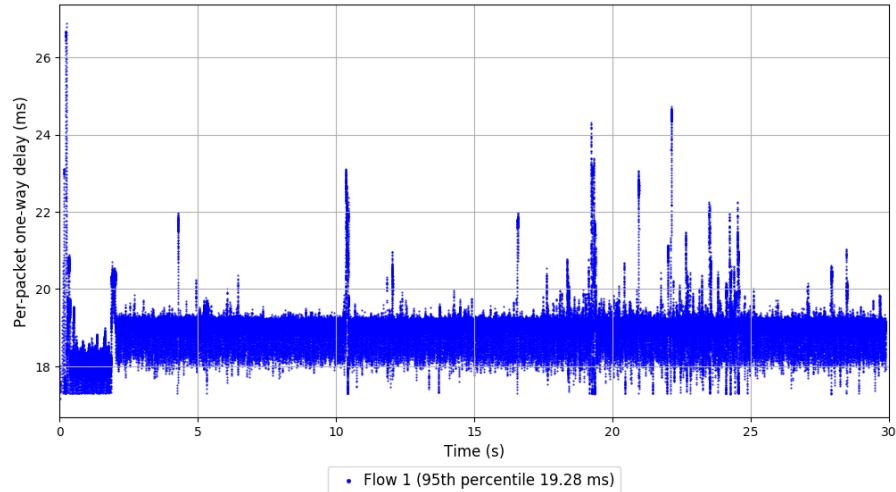
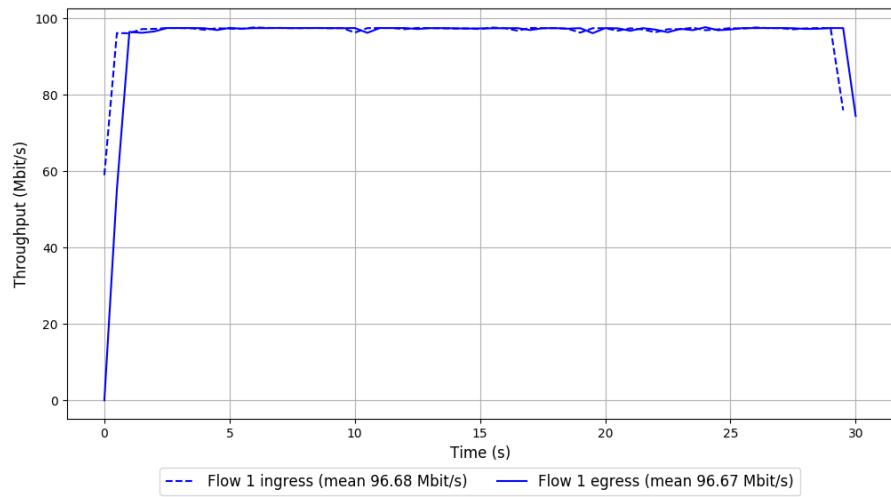


Run 1: Statistics of Indigo

```
Start at: 2019-03-27 06:33:21
End at: 2019-03-27 06:33:51
Local clock offset: -0.784 ms
Remote clock offset: 1.456 ms

# Below is generated by plot.py at 2019-03-27 08:43:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 19.281 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 19.281 ms
Loss rate: 0.09%
```

## Run 1: Report of Indigo — Data Link

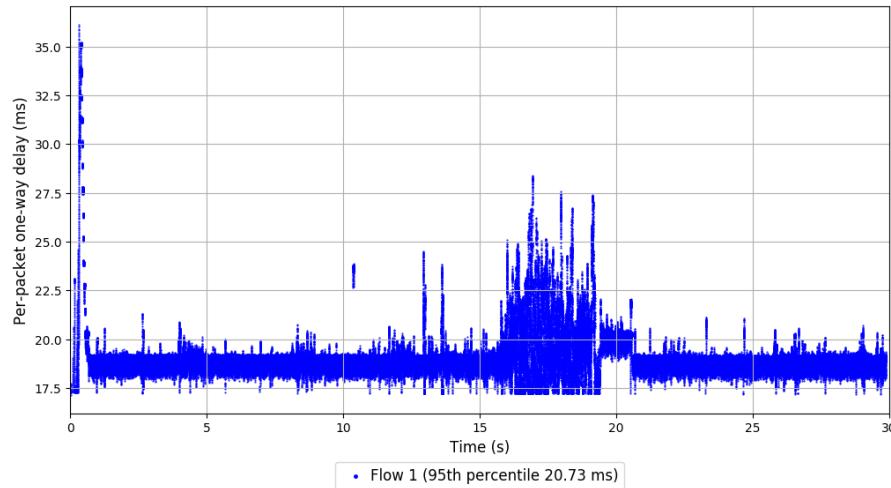
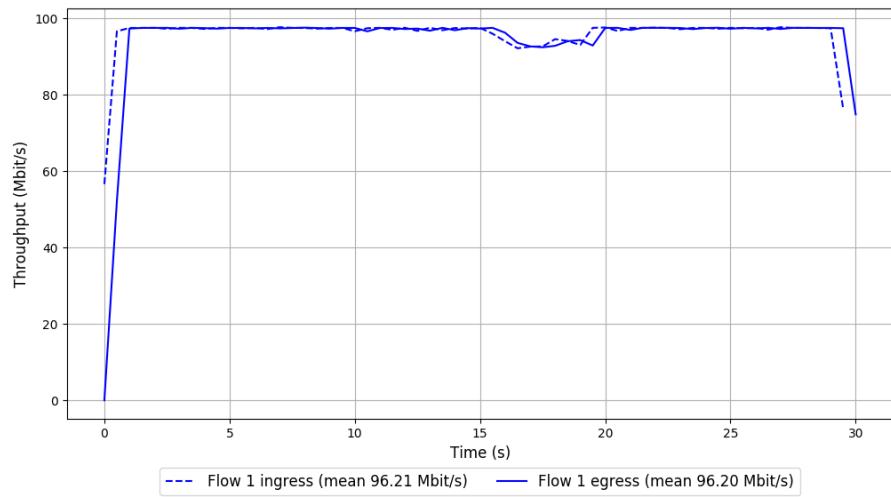


Run 2: Statistics of Indigo

```
Start at: 2019-03-27 06:59:36
End at: 2019-03-27 07:00:06
Local clock offset: -0.354 ms
Remote clock offset: -0.459 ms

# Below is generated by plot.py at 2019-03-27 08:43:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 20.730 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 20.730 ms
Loss rate: 0.09%
```

## Run 2: Report of Indigo — Data Link

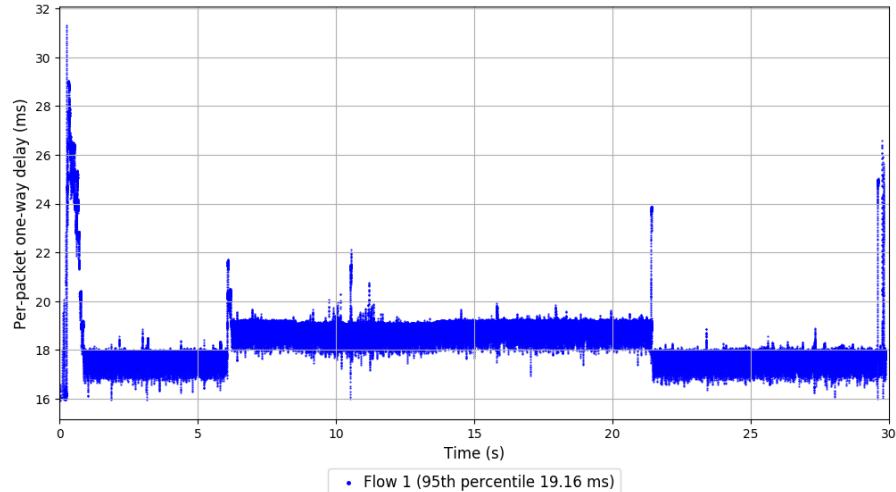
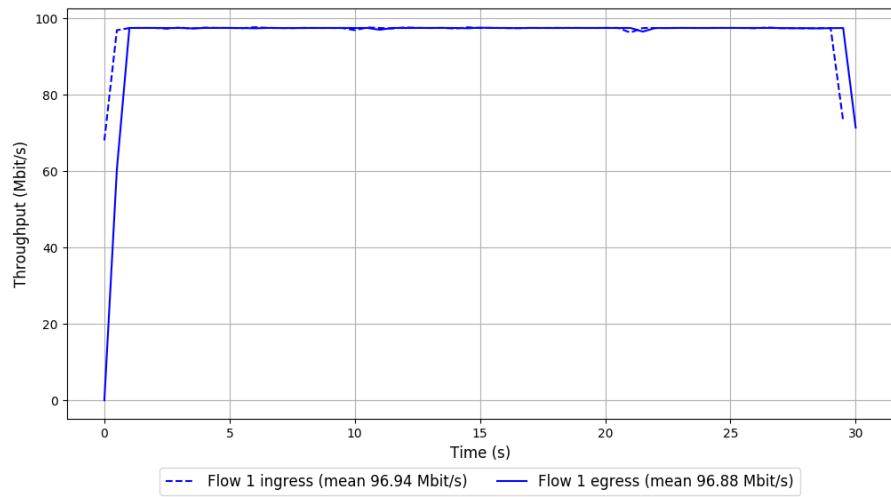


Run 3: Statistics of Indigo

```
Start at: 2019-03-27 07:26:01
End at: 2019-03-27 07:26:31
Local clock offset: -0.048 ms
Remote clock offset: 0.722 ms

# Below is generated by plot.py at 2019-03-27 08:44:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 19.165 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 19.165 ms
Loss rate: 0.15%
```

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

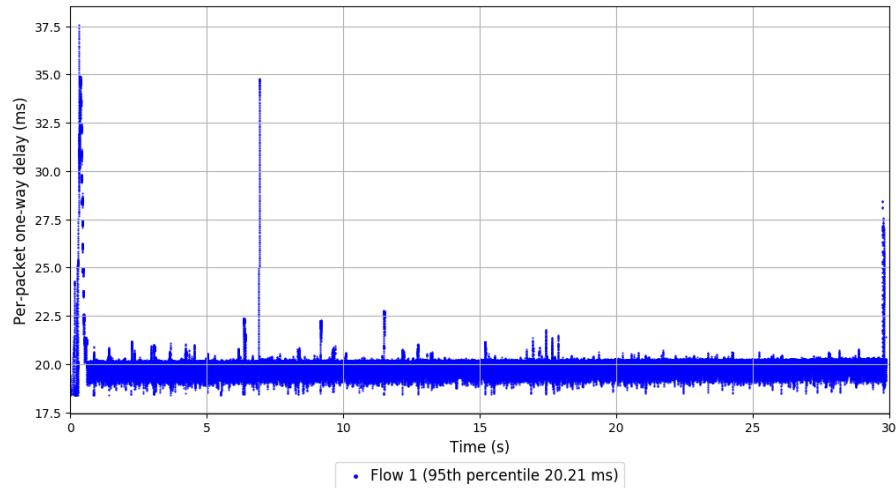
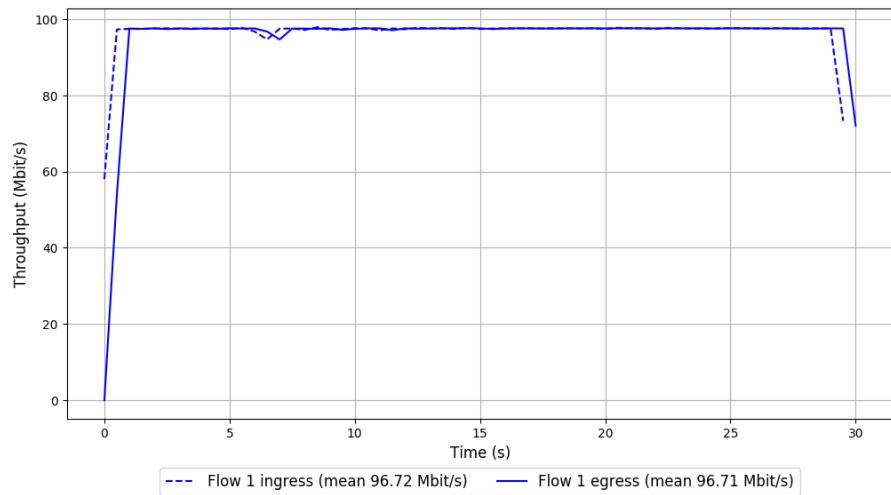


Run 4: Statistics of Indigo

```
Start at: 2019-03-27 07:50:36
End at: 2019-03-27 07:51:06
Local clock offset: 0.36 ms
Remote clock offset: 1.086 ms

# Below is generated by plot.py at 2019-03-27 08:44:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.71 Mbit/s
95th percentile per-packet one-way delay: 20.214 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.71 Mbit/s
95th percentile per-packet one-way delay: 20.214 ms
Loss rate: 0.09%
```

## Run 4: Report of Indigo — Data Link

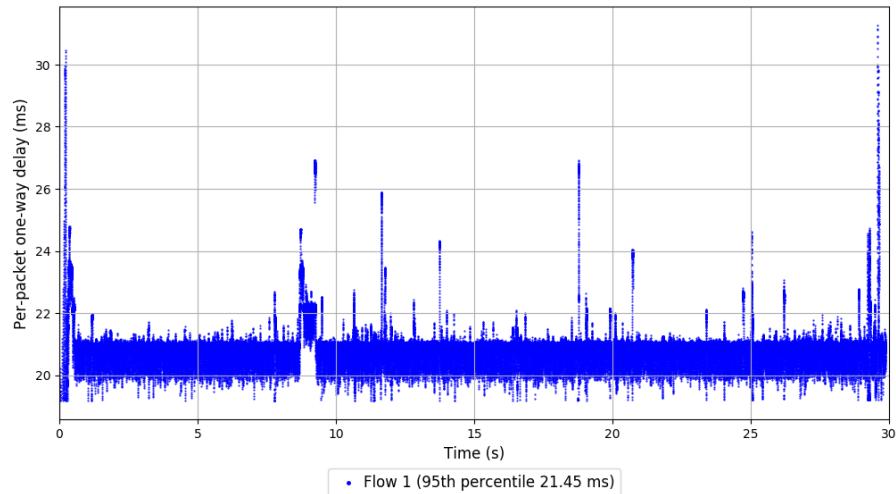
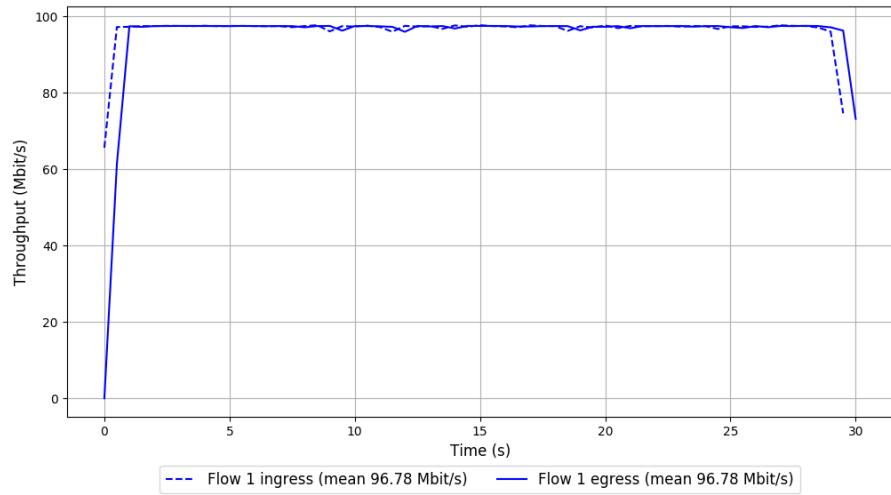


Run 5: Statistics of Indigo

```
Start at: 2019-03-27 08:15:07
End at: 2019-03-27 08:15:37
Local clock offset: -1.466 ms
Remote clock offset: 0.804 ms

# Below is generated by plot.py at 2019-03-27 08:44:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.78 Mbit/s
95th percentile per-packet one-way delay: 21.445 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.78 Mbit/s
95th percentile per-packet one-way delay: 21.445 ms
Loss rate: 0.09%
```

## Run 5: Report of Indigo — Data Link

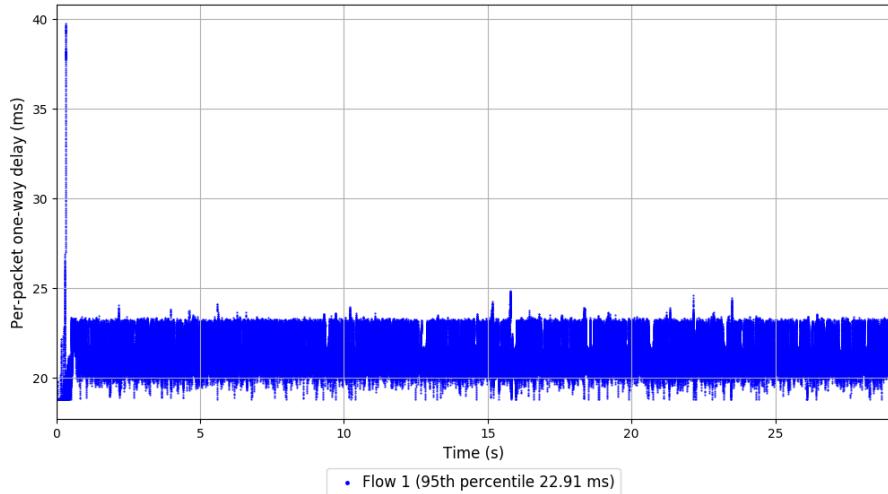
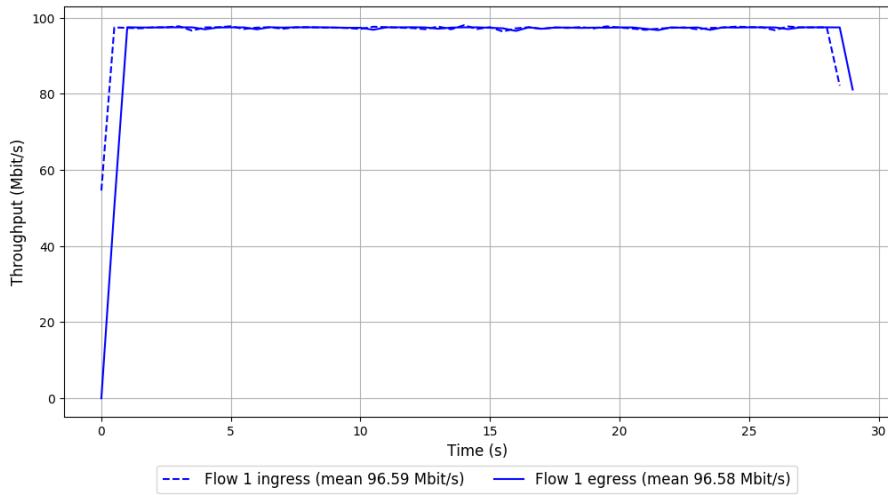


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 06:40:56
End at: 2019-03-27 06:41:26
Local clock offset: 0.289 ms
Remote clock offset: 0.822 ms

# Below is generated by plot.py at 2019-03-27 08:44:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 22.905 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 22.905 ms
Loss rate: 0.09%
```

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

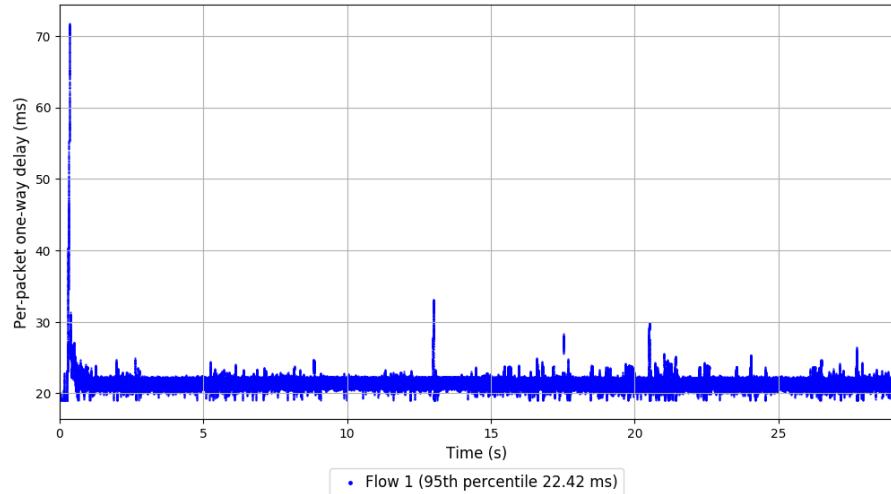
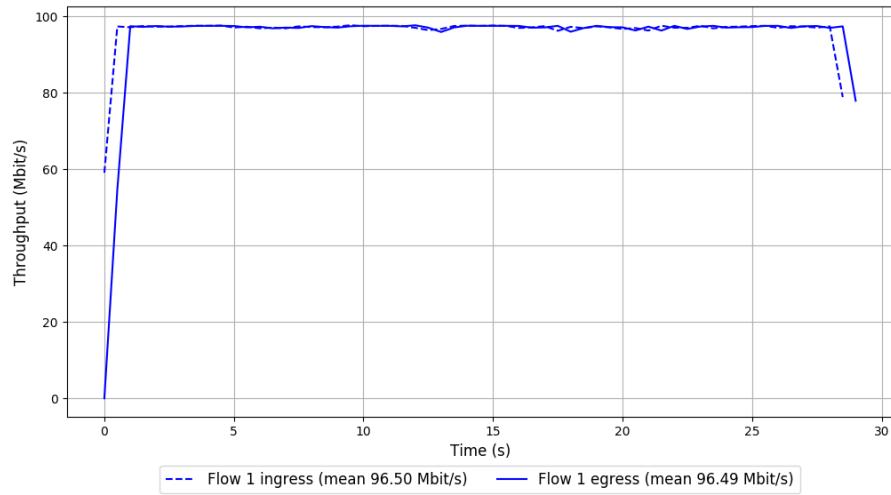


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 07:06:59
End at: 2019-03-27 07:07:29
Local clock offset: 1.901 ms
Remote clock offset: -0.761 ms

# Below is generated by plot.py at 2019-03-27 08:44:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 22.419 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 22.419 ms
Loss rate: 0.09%
```

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

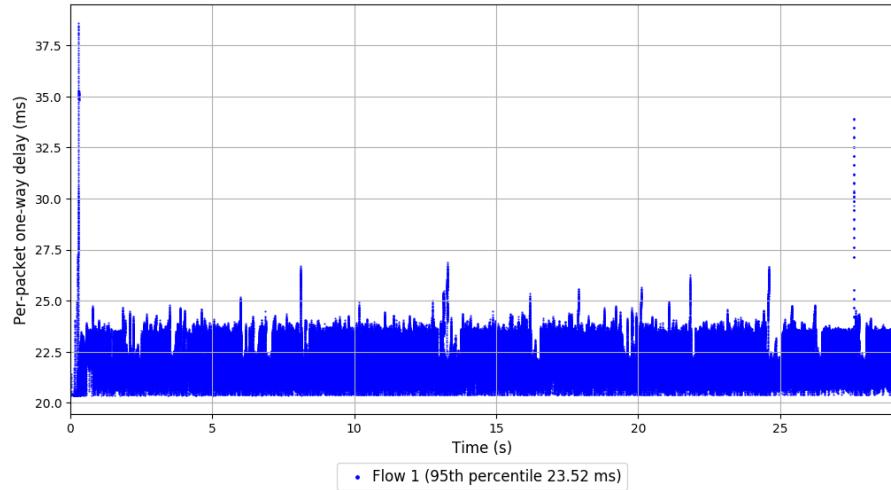
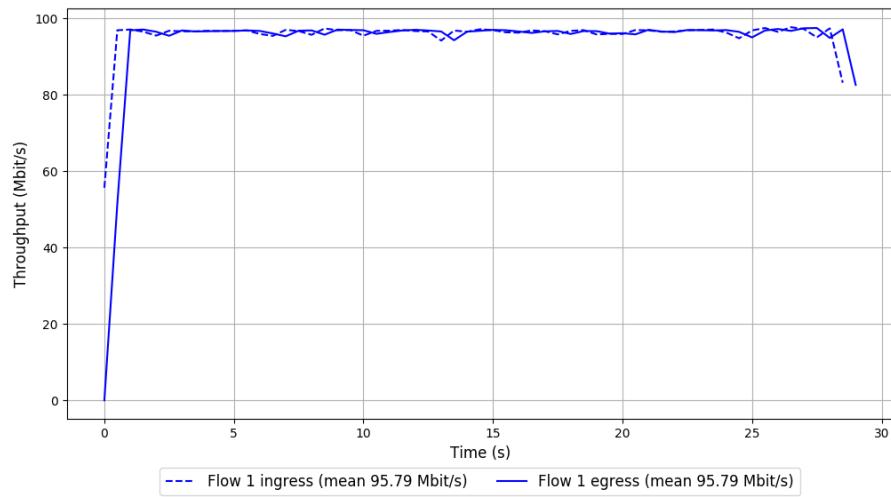


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 07:33:07
End at: 2019-03-27 07:33:37
Local clock offset: 2.147 ms
Remote clock offset: -1.436 ms

# Below is generated by plot.py at 2019-03-27 08:44:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 23.521 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 23.521 ms
Loss rate: 0.09%
```

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

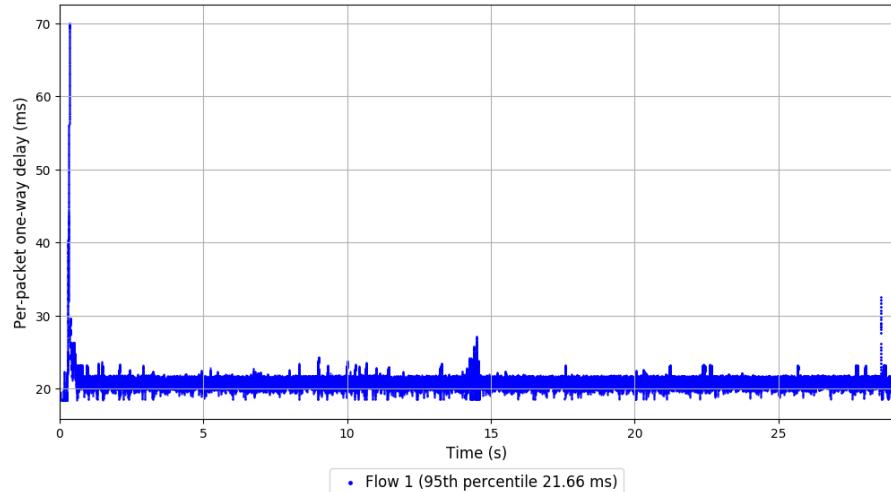
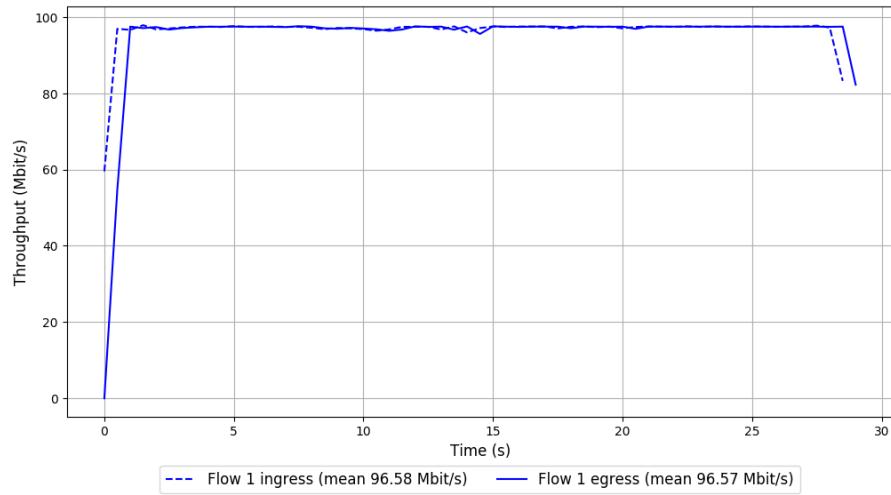


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 07:57:42
End at: 2019-03-27 07:58:12
Local clock offset: -1.489 ms
Remote clock offset: 0.316 ms

# Below is generated by plot.py at 2019-03-27 08:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 21.658 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 21.658 ms
Loss rate: 0.09%
```

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

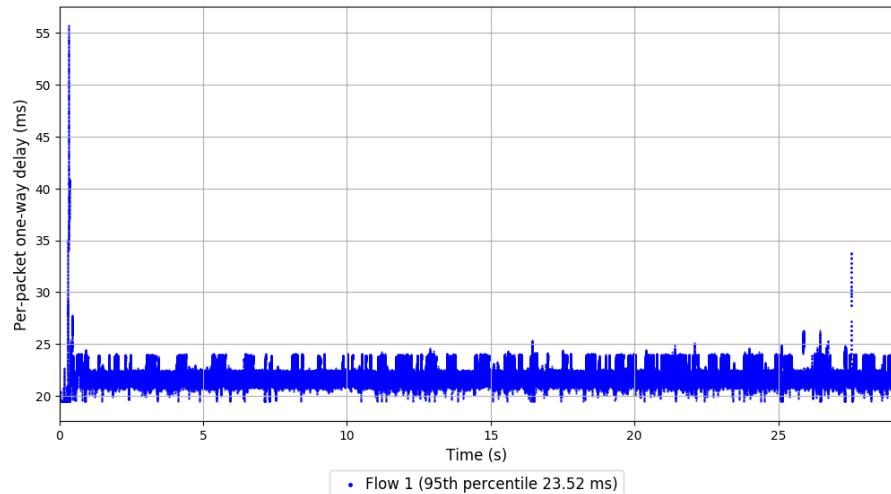
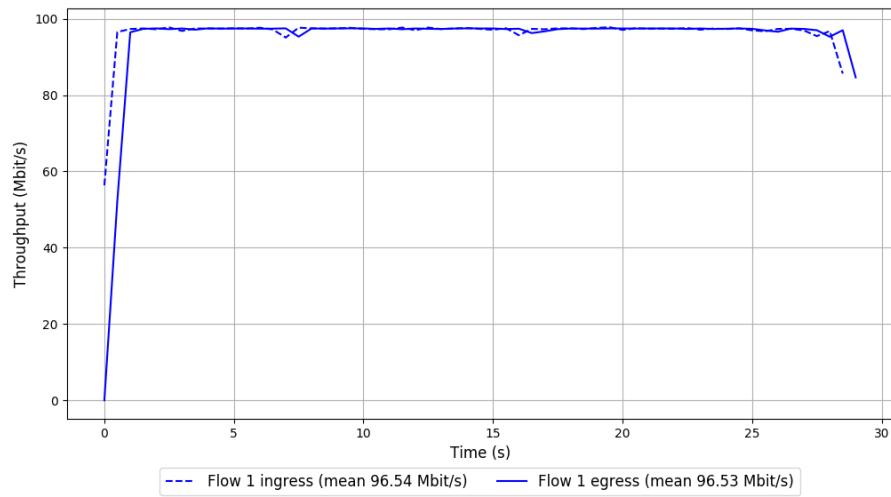


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 08:22:24
End at: 2019-03-27 08:22:54
Local clock offset: -0.4 ms
Remote clock offset: 1.794 ms

# Below is generated by plot.py at 2019-03-27 08:44:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 23.517 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 23.517 ms
Loss rate: 0.09%
```

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

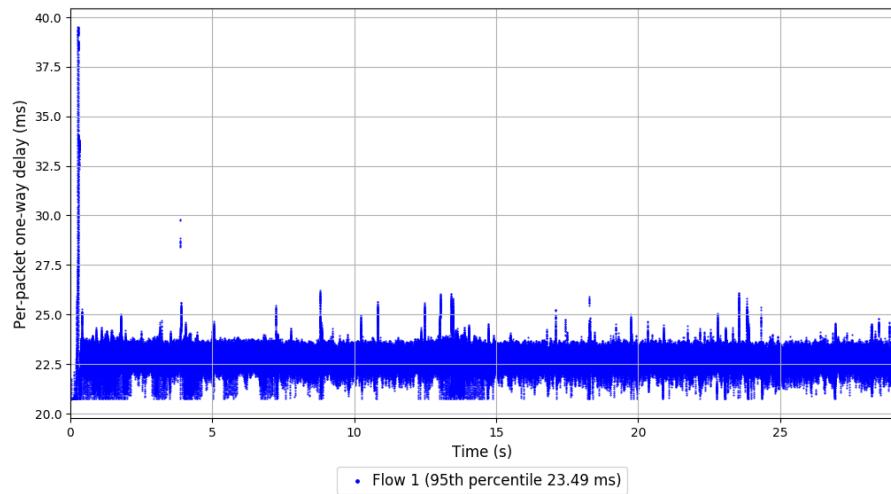
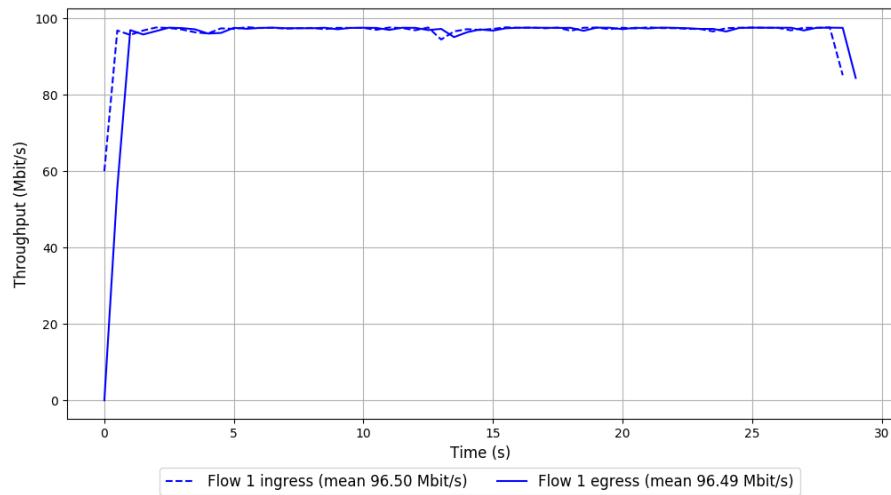


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 06:34:36
End at: 2019-03-27 06:35:06
Local clock offset: 1.563 ms
Remote clock offset: 0.289 ms

# Below is generated by plot.py at 2019-03-27 08:45:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 23.492 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 23.492 ms
Loss rate: 0.09%
```

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

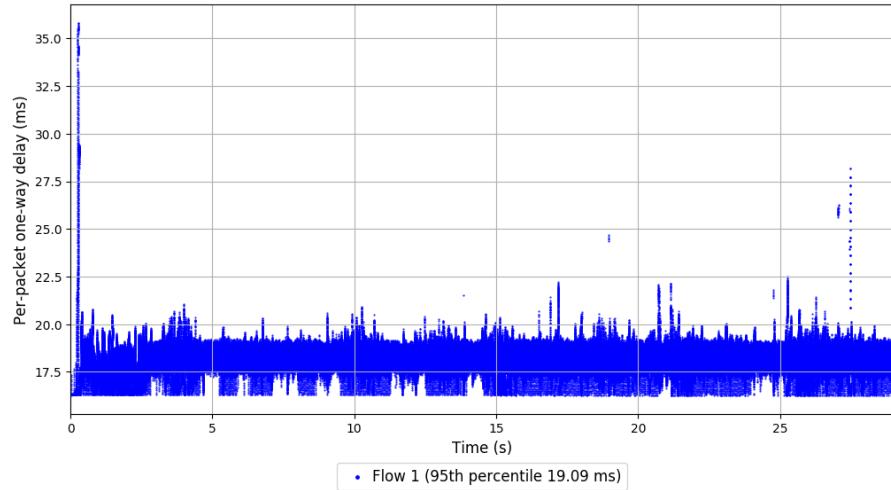
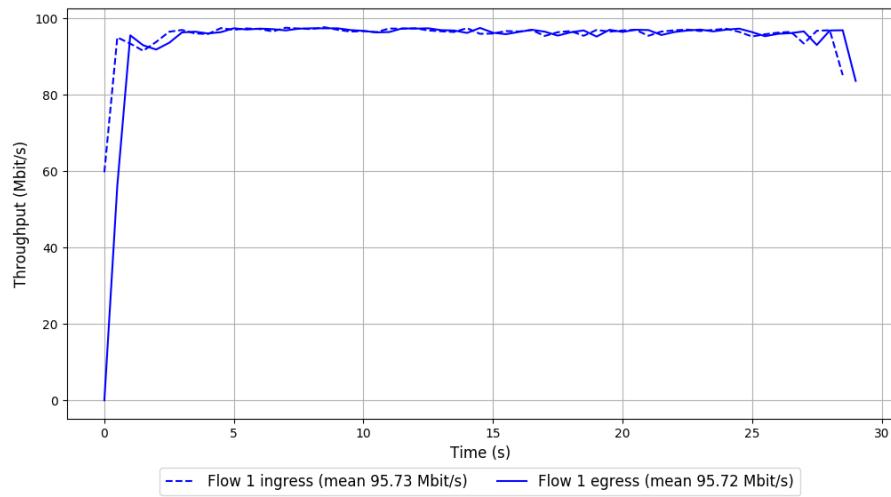


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 07:00:50
End at: 2019-03-27 07:01:20
Local clock offset: -0.226 ms
Remote clock offset: 0.54 ms

# Below is generated by plot.py at 2019-03-27 08:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 19.090 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 19.090 ms
Loss rate: 0.09%
```

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

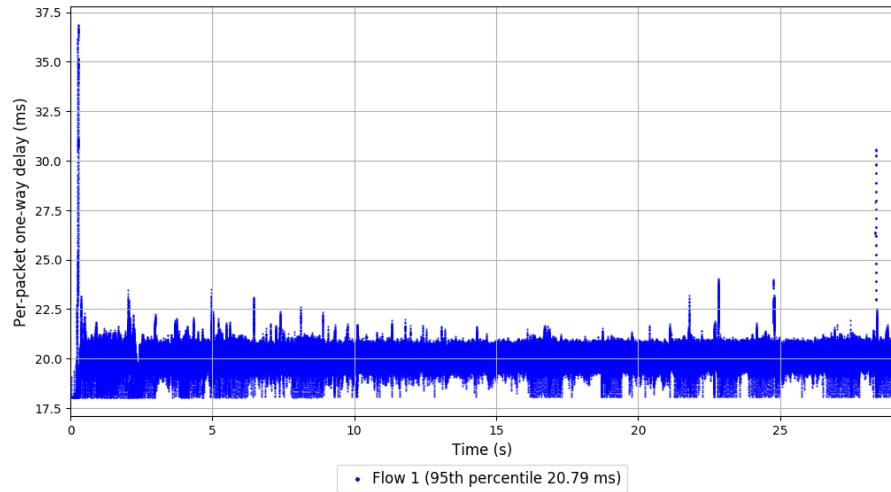
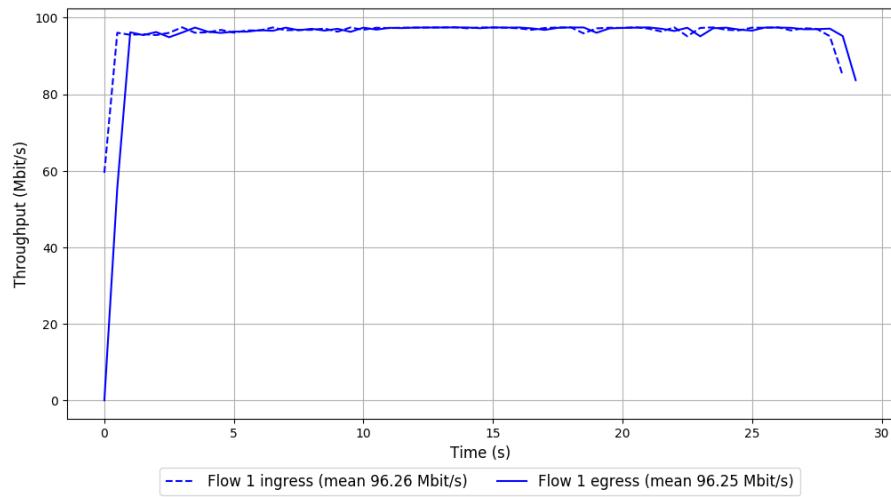


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 07:27:13
End at: 2019-03-27 07:27:43
Local clock offset: 0.543 ms
Remote clock offset: -0.688 ms

# Below is generated by plot.py at 2019-03-27 08:45:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 20.787 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 20.787 ms
Loss rate: 0.09%
```

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

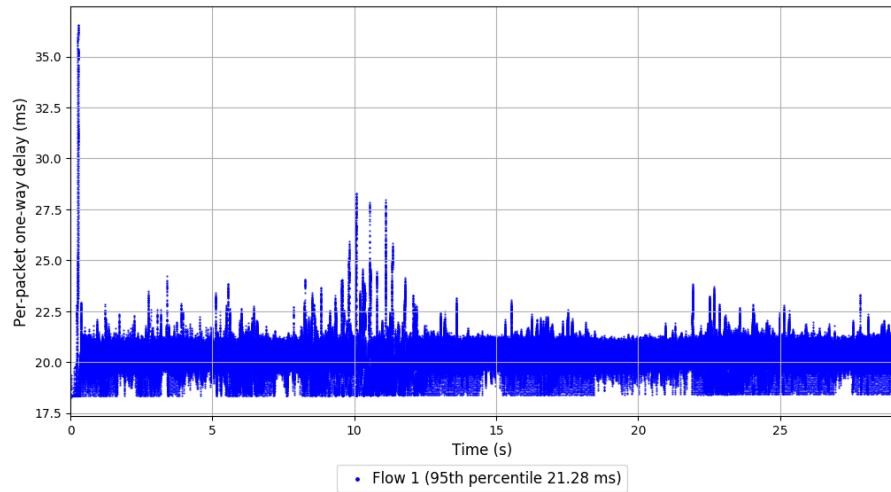
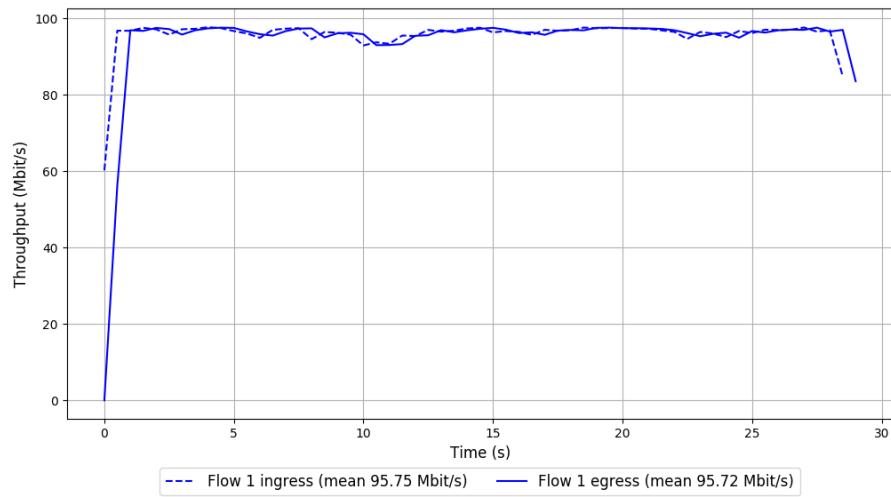


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 07:51:47
End at: 2019-03-27 07:52:17
Local clock offset: 0.456 ms
Remote clock offset: 1.459 ms

# Below is generated by plot.py at 2019-03-27 08:45:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 21.282 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 21.282 ms
Loss rate: 0.10%
```

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

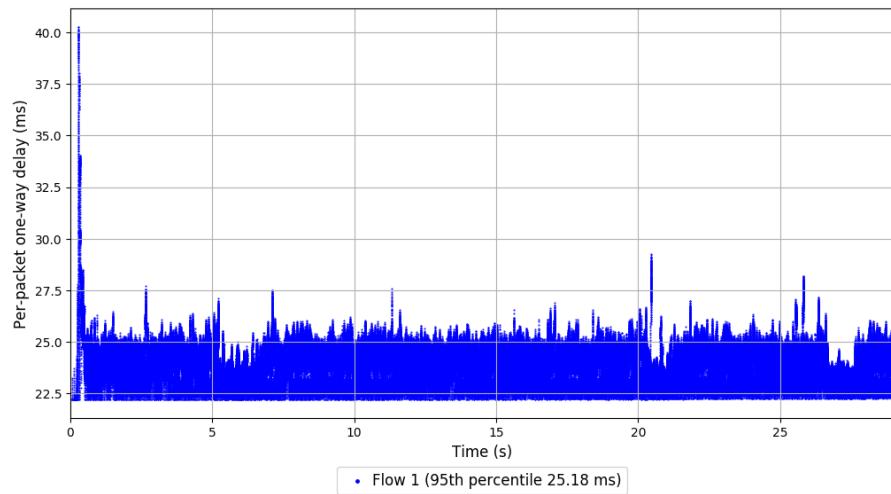
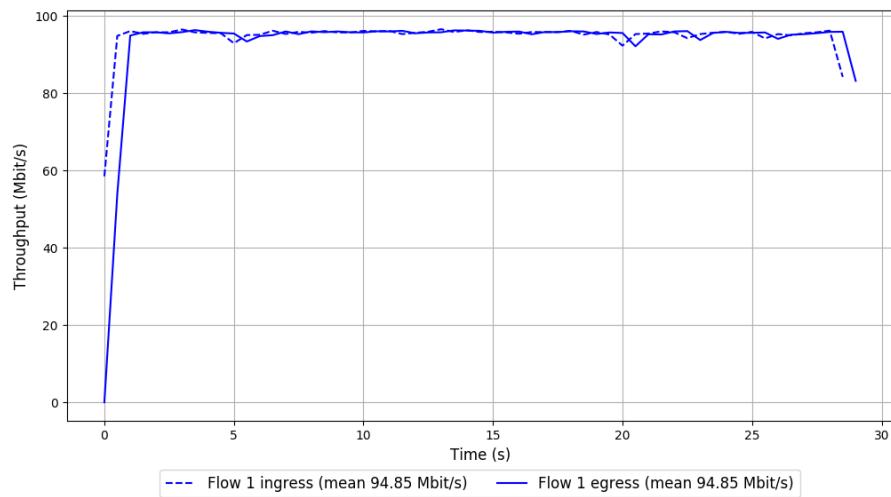


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 08:16:22
End at: 2019-03-27 08:16:52
Local clock offset: -1.069 ms
Remote clock offset: 1.293 ms

# Below is generated by plot.py at 2019-03-27 08:45:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.85 Mbit/s
95th percentile per-packet one-way delay: 25.175 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 94.85 Mbit/s
95th percentile per-packet one-way delay: 25.175 ms
Loss rate: 0.10%
```

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

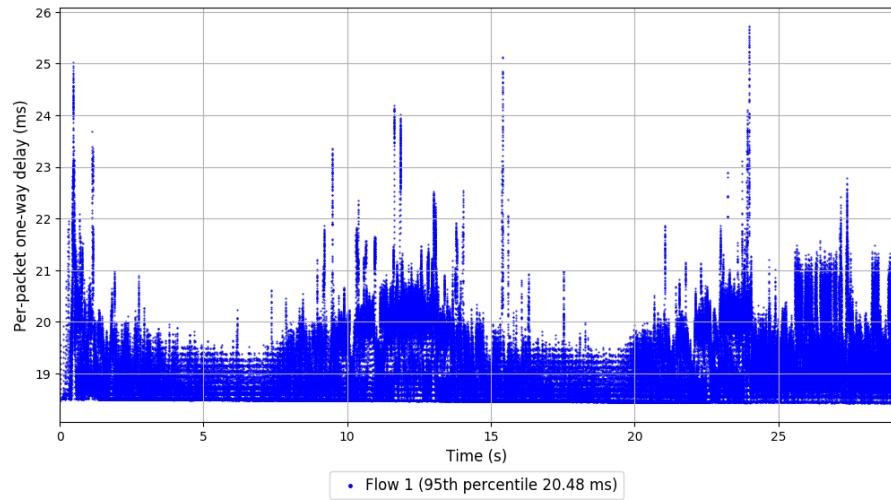
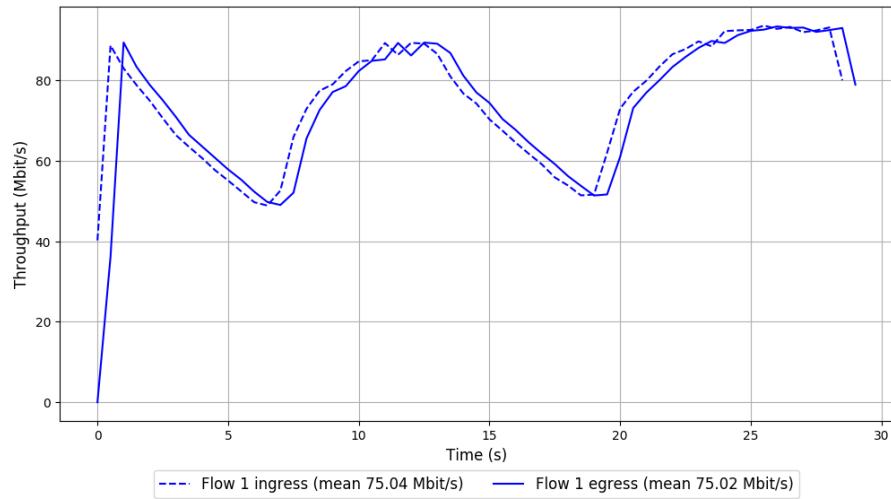


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 06:53:36
End at: 2019-03-27 06:54:06
Local clock offset: 0.619 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-03-27 08:45:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.02 Mbit/s
95th percentile per-packet one-way delay: 20.482 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 75.02 Mbit/s
95th percentile per-packet one-way delay: 20.482 ms
Loss rate: 0.11%
```

Run 1: Report of Indigo-MusesD — Data Link

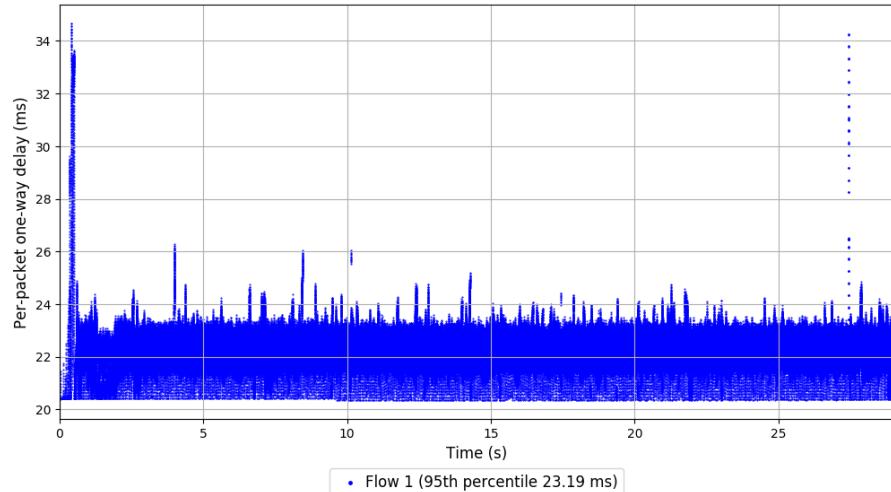
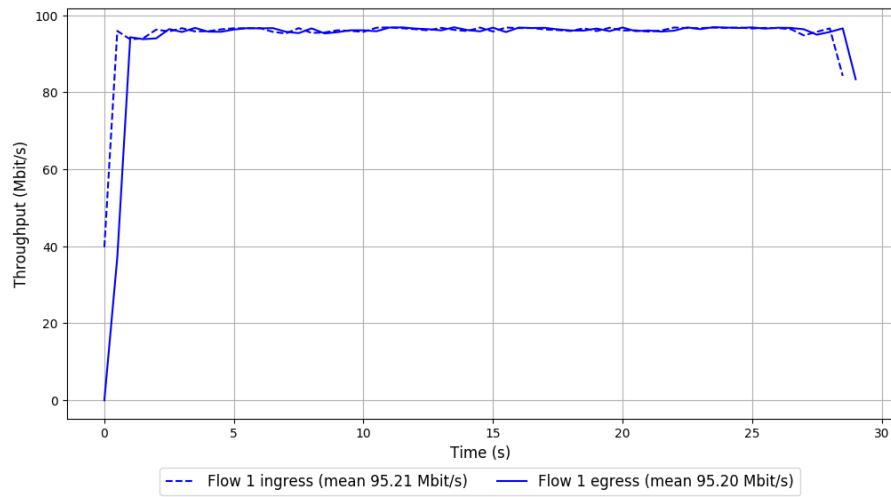


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 07:20:14
End at: 2019-03-27 07:20:44
Local clock offset: 1.546 ms
Remote clock offset: -2.439 ms

# Below is generated by plot.py at 2019-03-27 08:45:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 23.191 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 23.191 ms
Loss rate: 0.09%
```

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

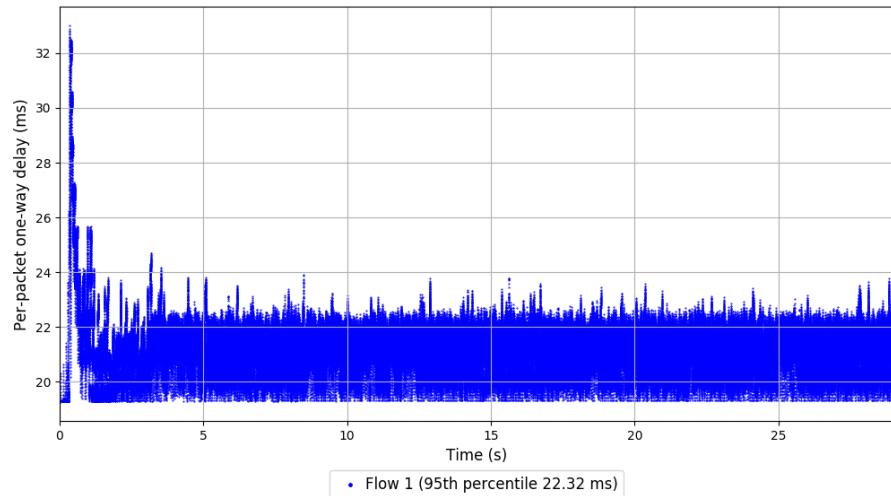
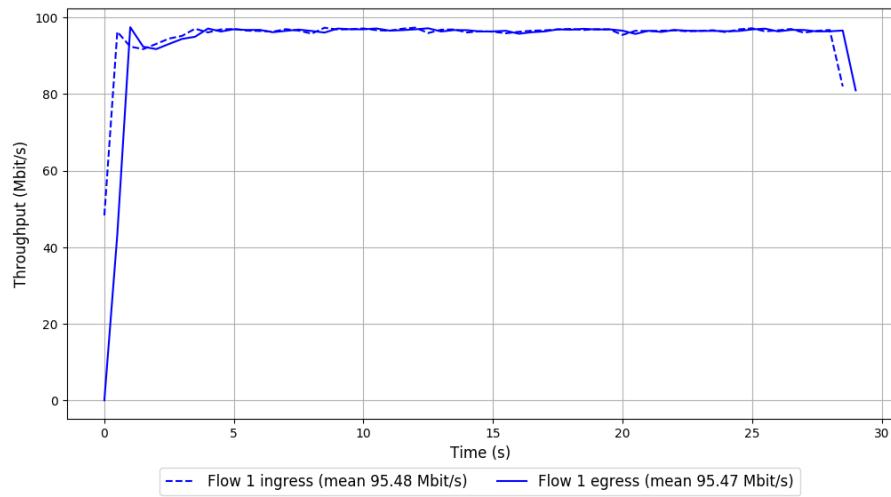


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 07:44:52
End at: 2019-03-27 07:45:22
Local clock offset: 1.971 ms
Remote clock offset: 0.324 ms

# Below is generated by plot.py at 2019-03-27 08:45:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 22.319 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 22.319 ms
Loss rate: 0.10%
```

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

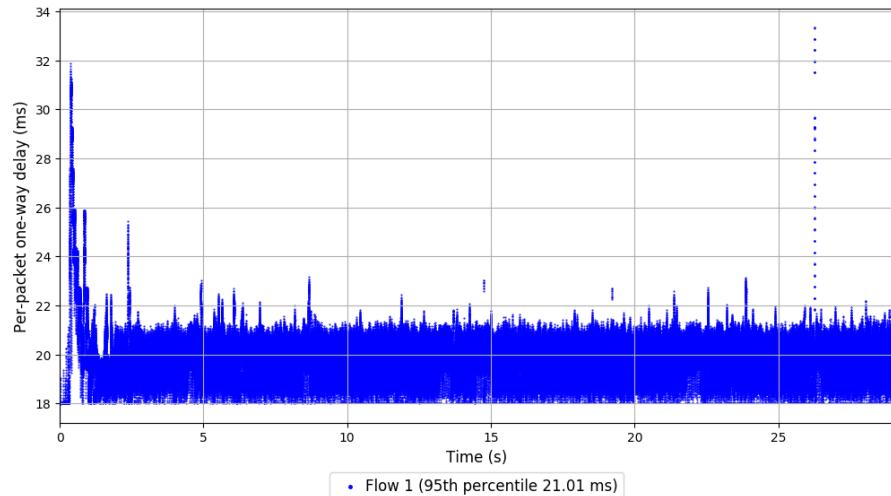
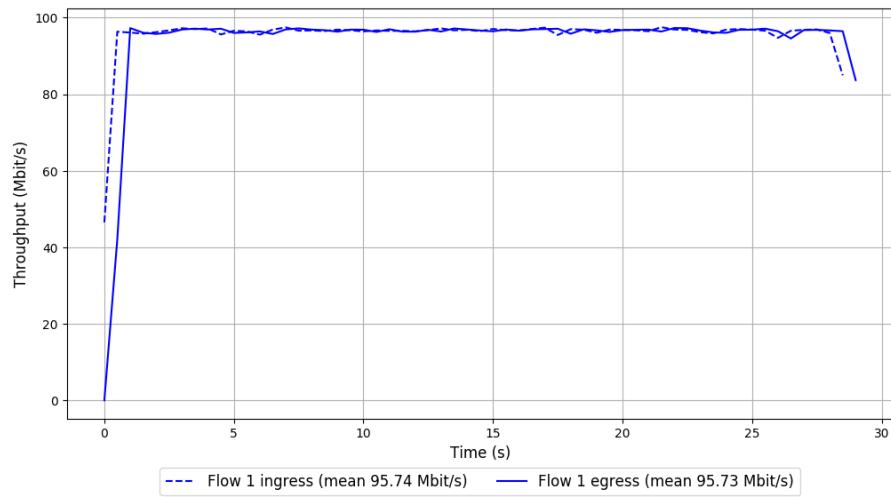


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 08:09:21
End at: 2019-03-27 08:09:51
Local clock offset: -0.775 ms
Remote clock offset: 2.195 ms

# Below is generated by plot.py at 2019-03-27 08:46:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.73 Mbit/s
95th percentile per-packet one-way delay: 21.011 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.73 Mbit/s
95th percentile per-packet one-way delay: 21.011 ms
Loss rate: 0.09%
```

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

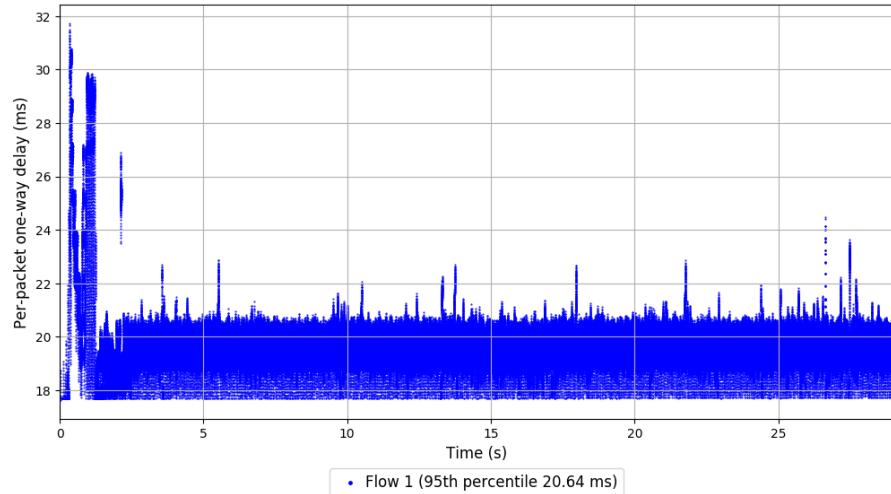
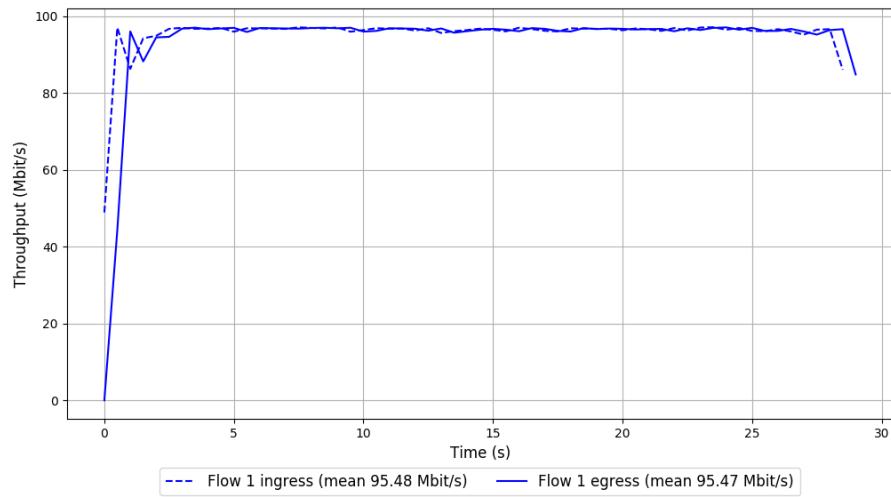


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 08:34:17
End at: 2019-03-27 08:34:47
Local clock offset: -2.52 ms
Remote clock offset: 2.086 ms

# Below is generated by plot.py at 2019-03-27 08:46:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 20.635 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 20.635 ms
Loss rate: 0.09%
```

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

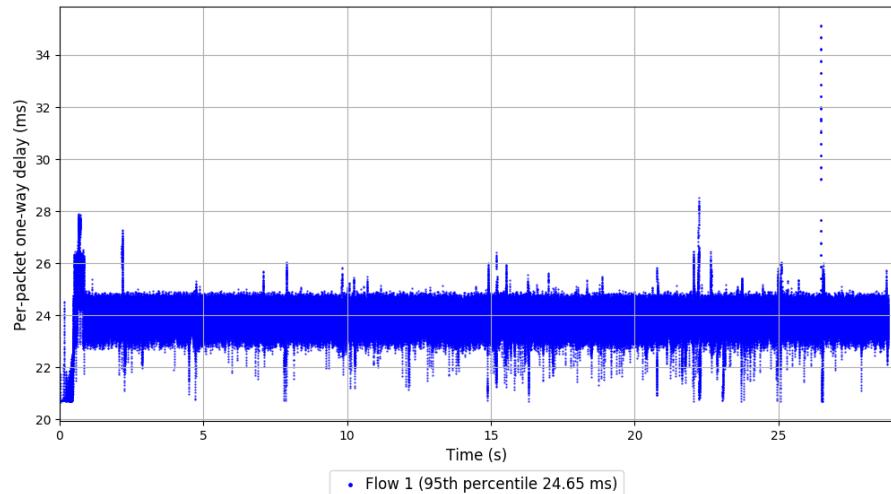
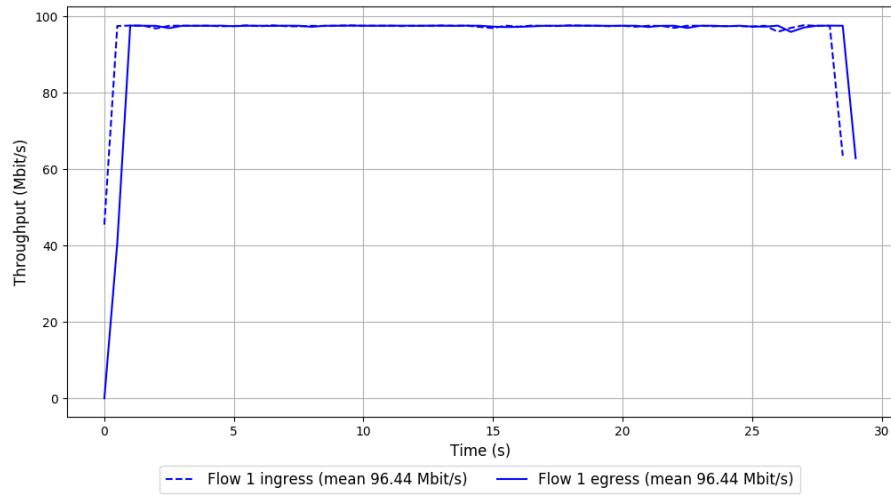


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 06:32:12
End at: 2019-03-27 06:32:42
Local clock offset: 1.026 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-03-27 08:46:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 24.647 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 24.647 ms
Loss rate: 0.10%
```

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

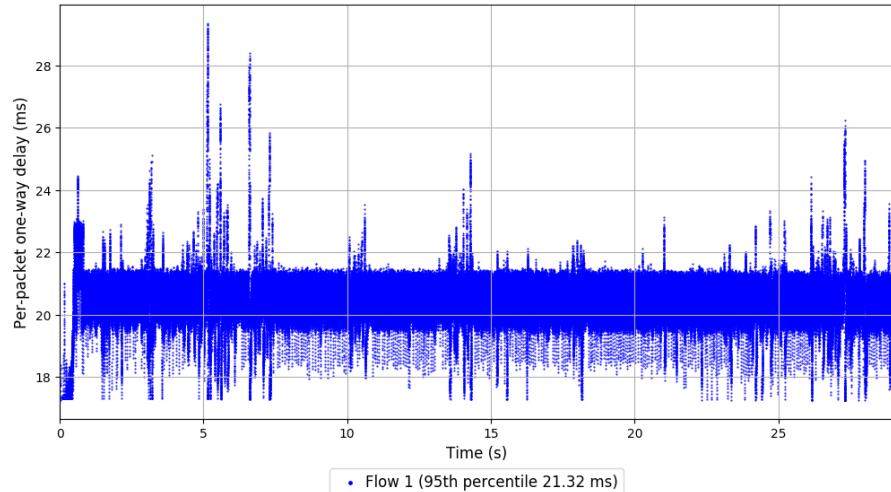
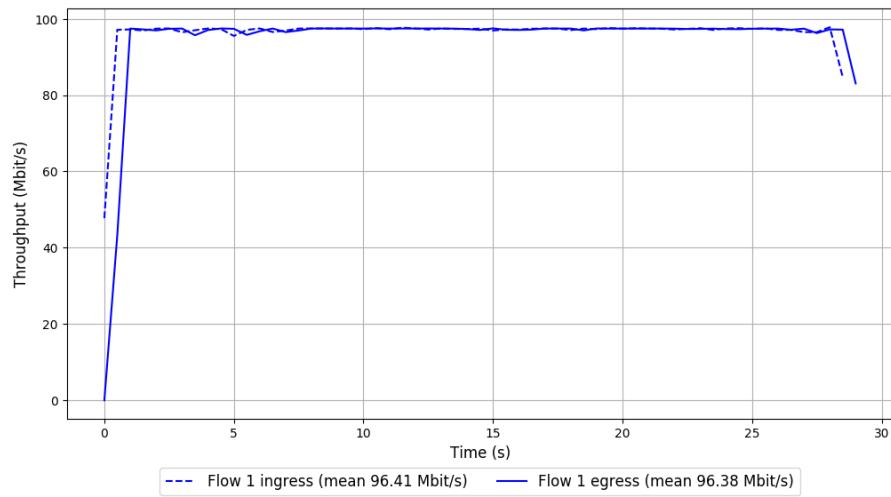


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 06:58:24
End at: 2019-03-27 06:58:54
Local clock offset: -0.29 ms
Remote clock offset: -0.296 ms

# Below is generated by plot.py at 2019-03-27 08:46:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 21.318 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 21.318 ms
Loss rate: 0.11%
```

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

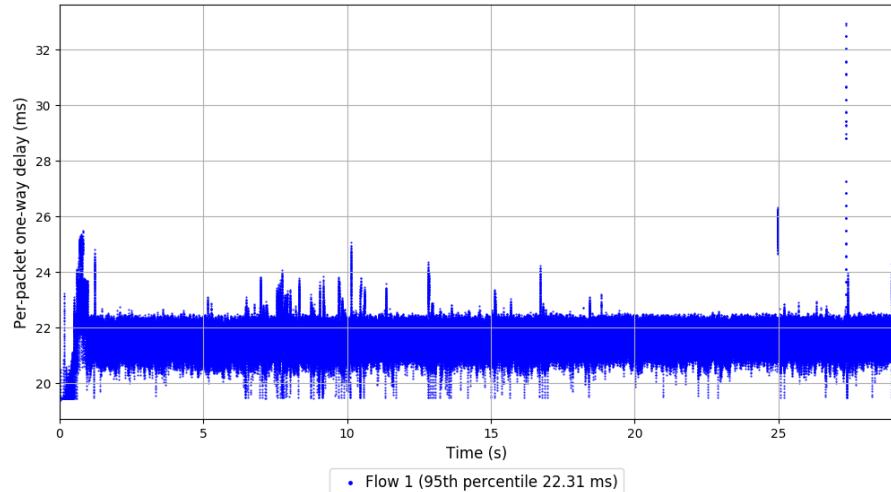
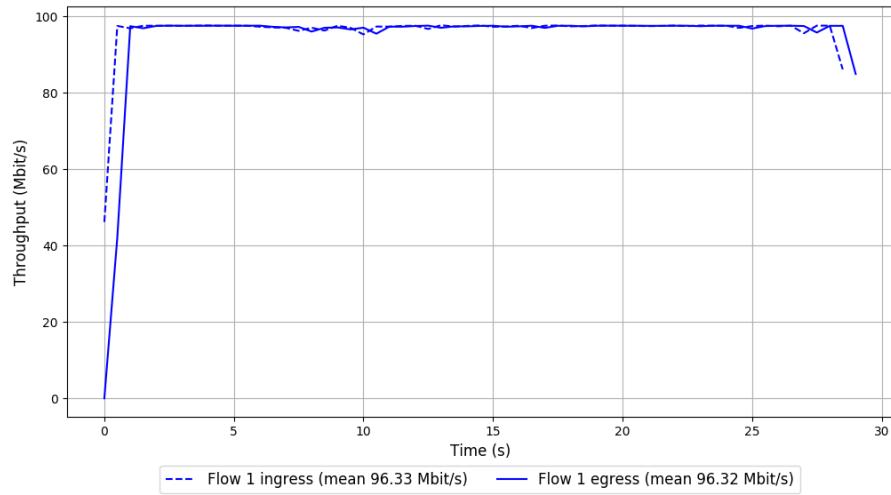


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 07:24:51
End at: 2019-03-27 07:25:21
Local clock offset: 2.695 ms
Remote clock offset: -0.328 ms

# Below is generated by plot.py at 2019-03-27 08:46:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 22.308 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 22.308 ms
Loss rate: 0.10%
```

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

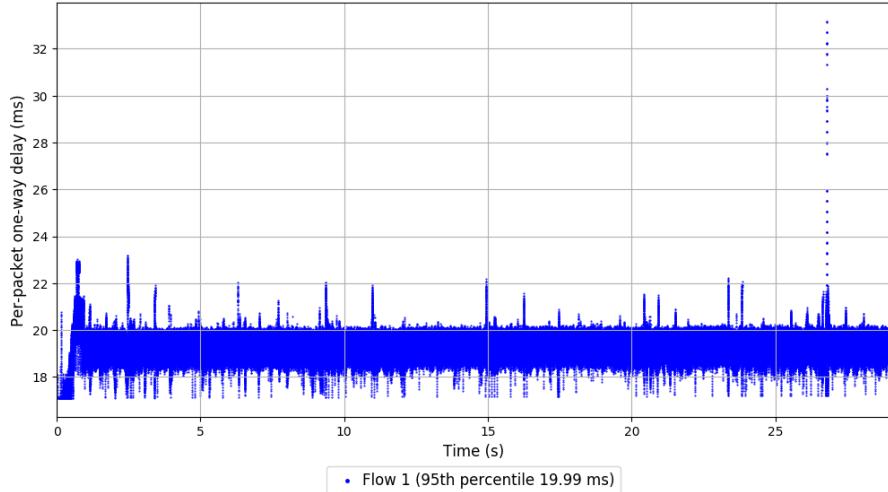
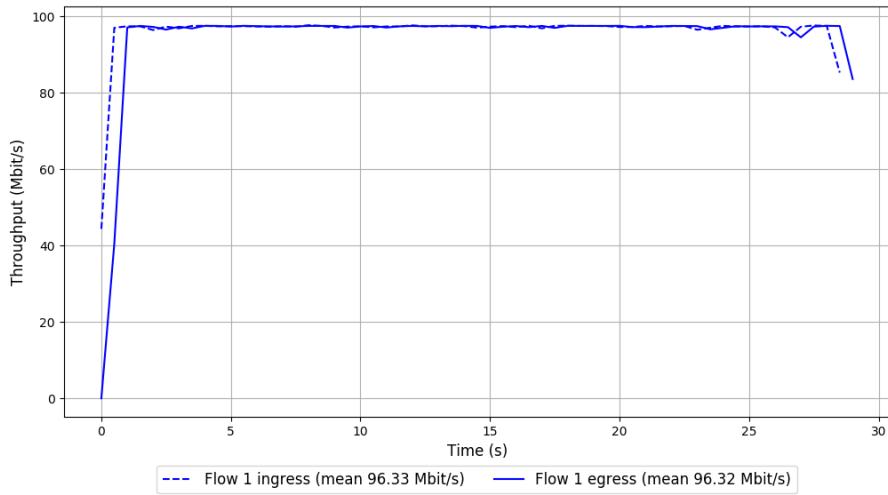


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 07:49:26
End at: 2019-03-27 07:49:56
Local clock offset: 0.059 ms
Remote clock offset: 1.635 ms

# Below is generated by plot.py at 2019-03-27 08:46:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 19.990 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 19.990 ms
Loss rate: 0.10%
```

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

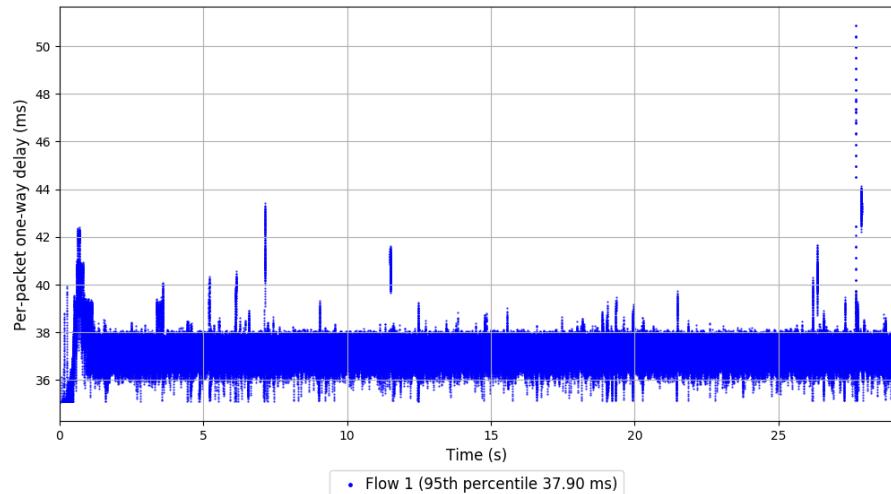
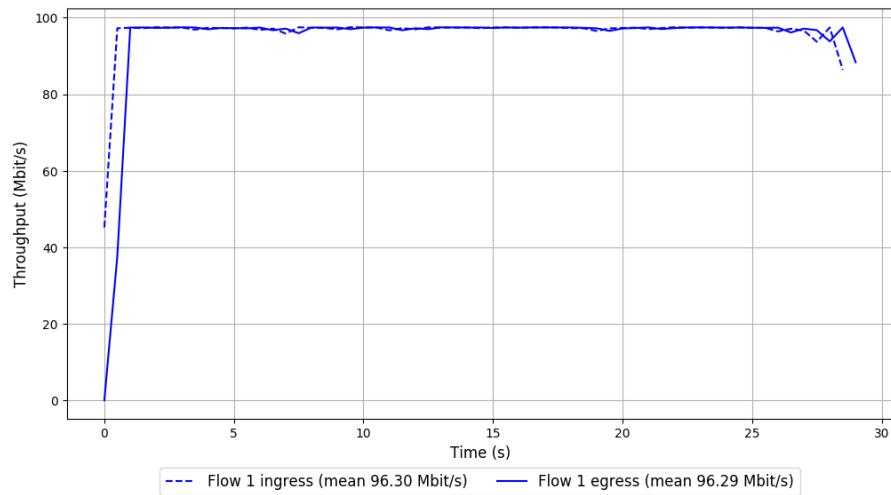


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 08:13:56
End at: 2019-03-27 08:14:26
Local clock offset: -0.58 ms
Remote clock offset: -14.492 ms

# Below is generated by plot.py at 2019-03-27 08:46:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.29 Mbit/s
95th percentile per-packet one-way delay: 37.896 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.29 Mbit/s
95th percentile per-packet one-way delay: 37.896 ms
Loss rate: 0.09%
```

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

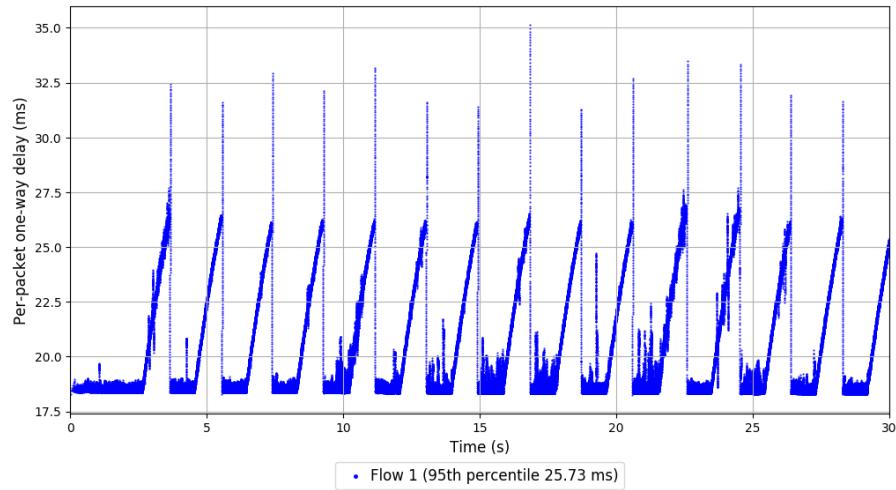
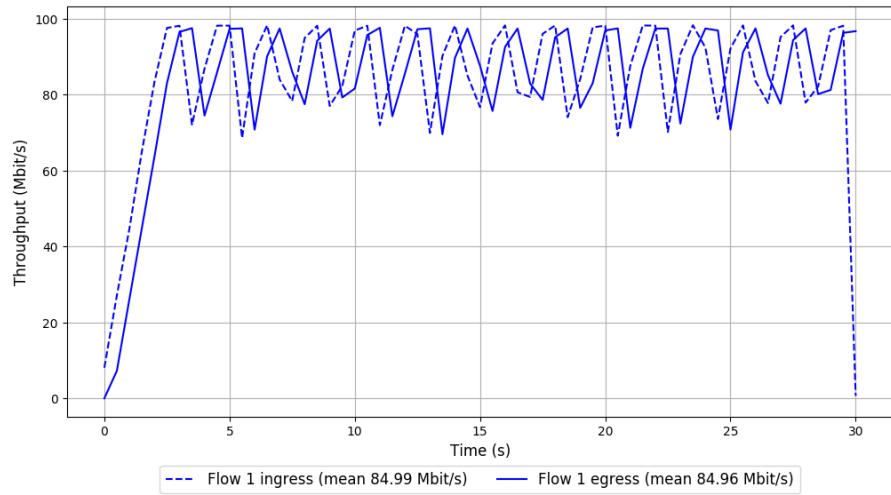


Run 1: Statistics of LEDBAT

```
Start at: 2019-03-27 06:54:49
End at: 2019-03-27 06:55:19
Local clock offset: 0.121 ms
Remote clock offset: -0.437 ms

# Below is generated by plot.py at 2019-03-27 08:46:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.96 Mbit/s
95th percentile per-packet one-way delay: 25.729 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 84.96 Mbit/s
95th percentile per-packet one-way delay: 25.729 ms
Loss rate: 0.13%
```

Run 1: Report of LEDBAT — Data Link

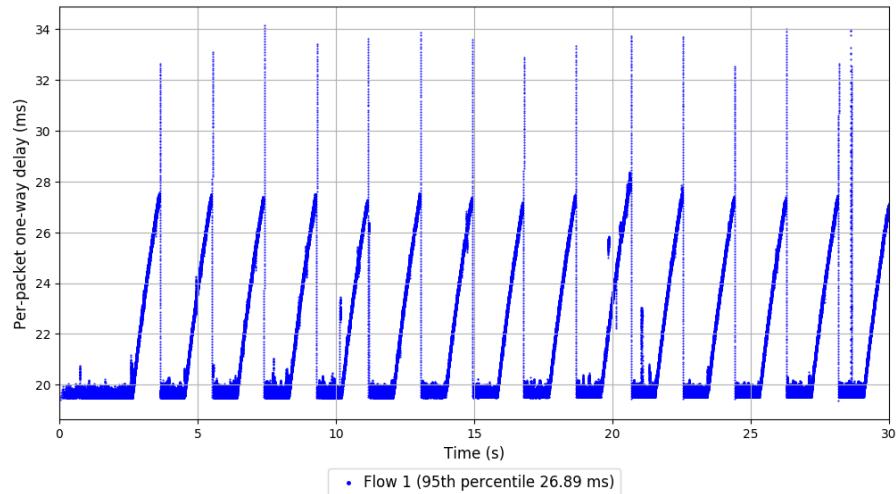
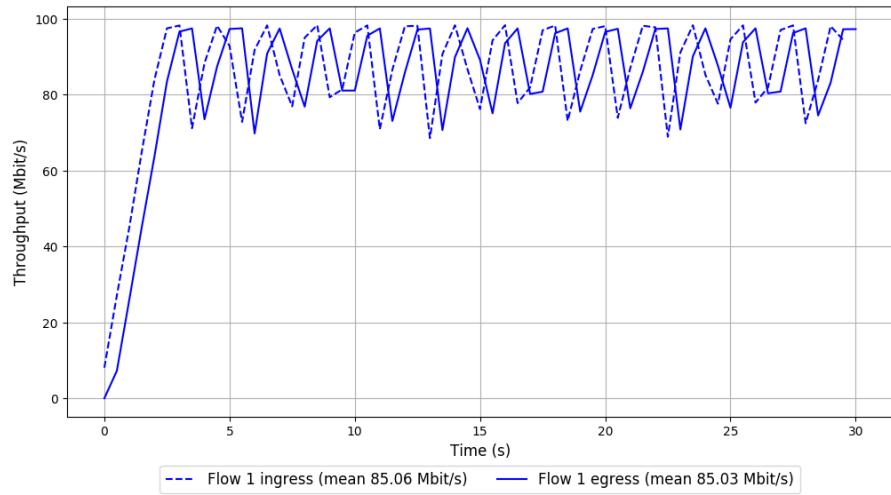


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-27 07:21:26
End at: 2019-03-27 07:21:56
Local clock offset: 2.222 ms
Remote clock offset: -0.927 ms

# Below is generated by plot.py at 2019-03-27 08:47:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.03 Mbit/s
95th percentile per-packet one-way delay: 26.889 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 85.03 Mbit/s
95th percentile per-packet one-way delay: 26.889 ms
Loss rate: 0.04%
```

## Run 2: Report of LEDBAT — Data Link

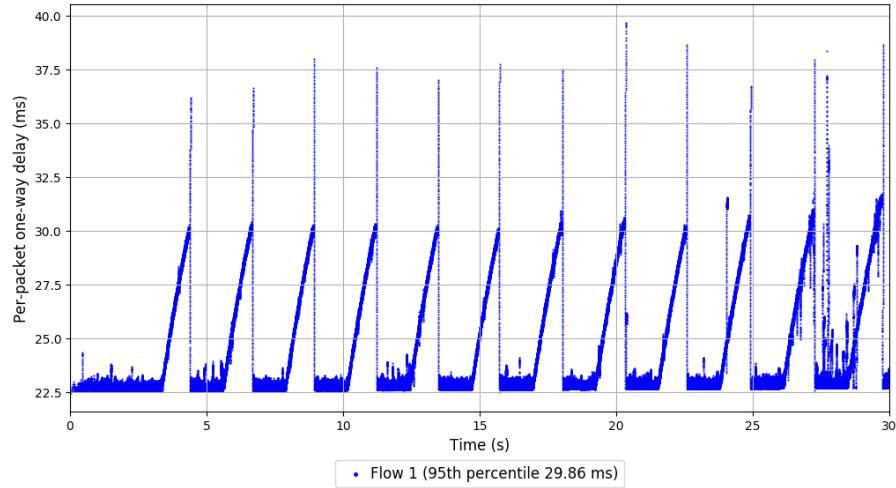
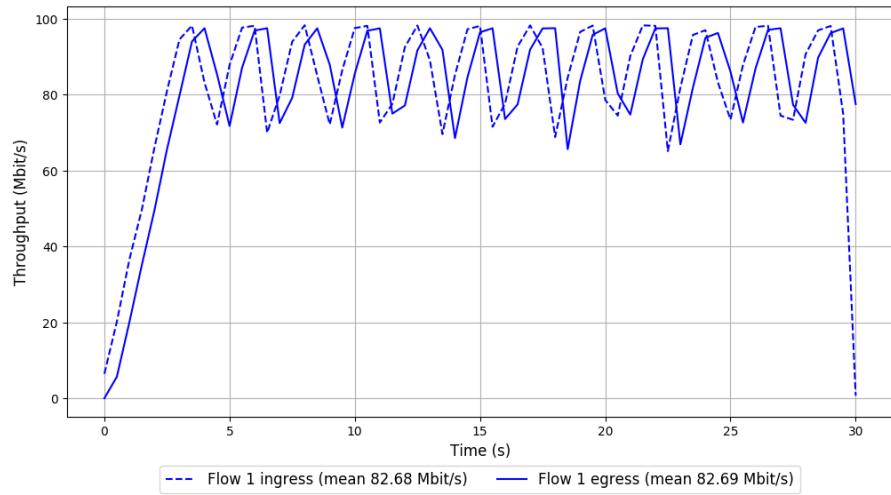


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-27 07:46:02
End at: 2019-03-27 07:46:32
Local clock offset: 1.293 ms
Remote clock offset: -0.385 ms

# Below is generated by plot.py at 2019-03-27 08:47:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.69 Mbit/s
95th percentile per-packet one-way delay: 29.864 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 82.69 Mbit/s
95th percentile per-packet one-way delay: 29.864 ms
Loss rate: 0.09%
```

Run 3: Report of LEDBAT — Data Link

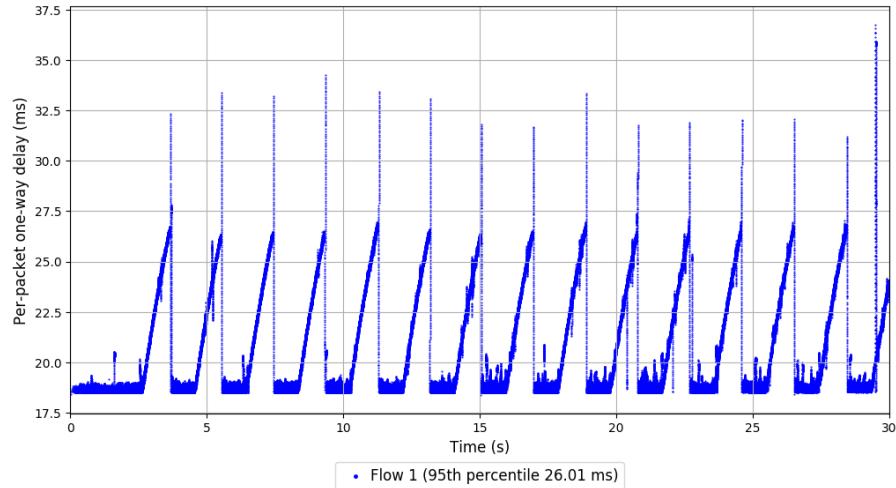
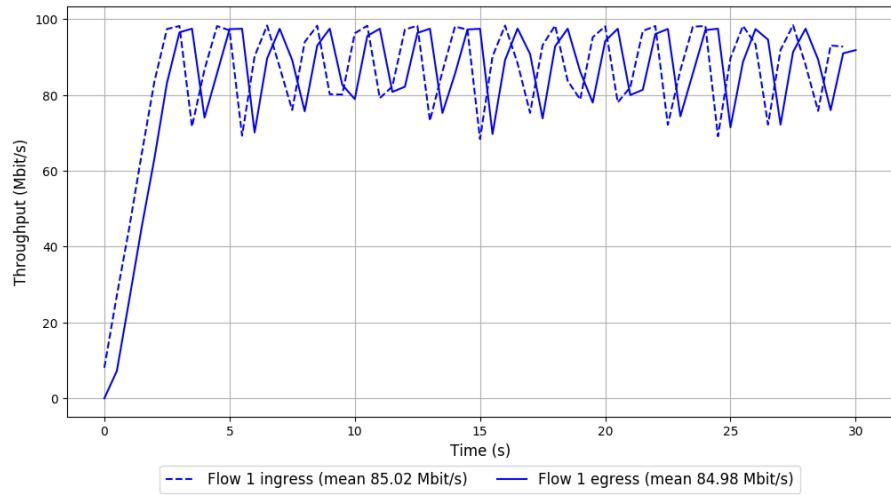


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-27 08:10:30
End at: 2019-03-27 08:11:00
Local clock offset: -0.945 ms
Remote clock offset: 1.696 ms

# Below is generated by plot.py at 2019-03-27 08:47:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.98 Mbit/s
95th percentile per-packet one-way delay: 26.010 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 84.98 Mbit/s
95th percentile per-packet one-way delay: 26.010 ms
Loss rate: 0.12%
```

Run 4: Report of LEDBAT — Data Link

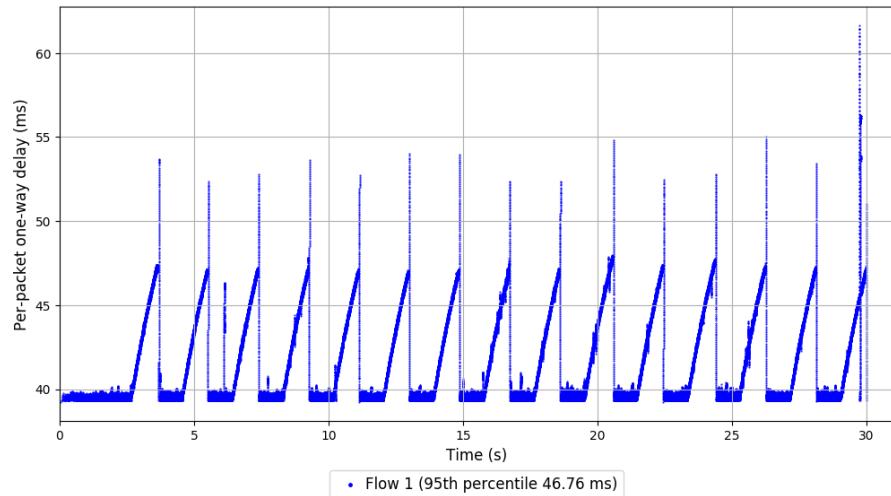
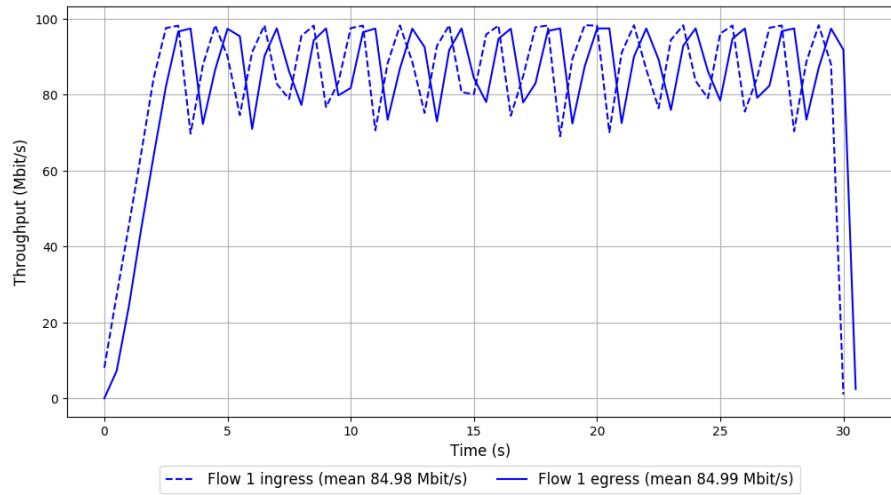


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-27 08:35:27
End at: 2019-03-27 08:35:57
Local clock offset: -1.447 ms
Remote clock offset: -18.488 ms

# Below is generated by plot.py at 2019-03-27 08:47:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.99 Mbit/s
95th percentile per-packet one-way delay: 46.756 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 84.99 Mbit/s
95th percentile per-packet one-way delay: 46.756 ms
Loss rate: 0.07%
```

Run 5: Report of LEDBAT — Data Link

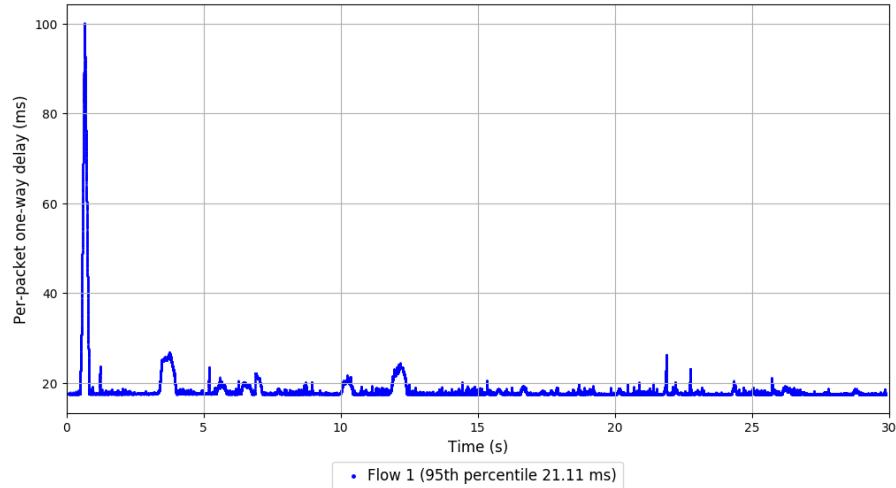
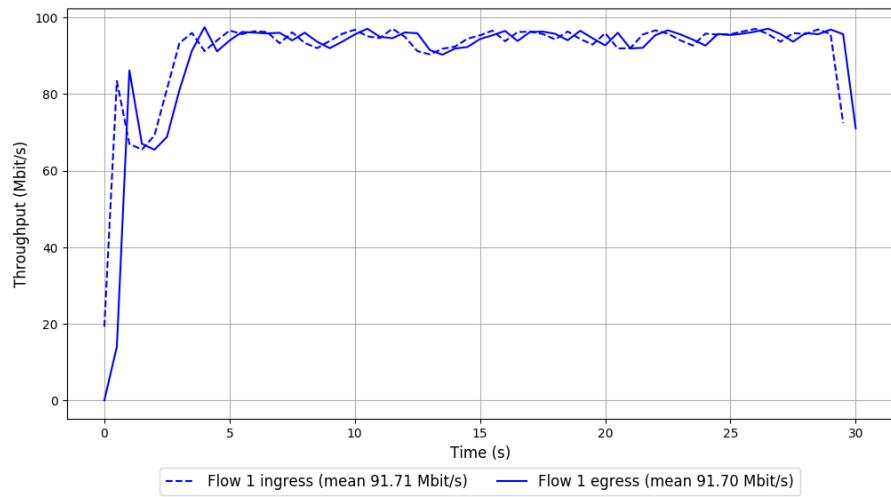


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-03-27 06:46:15
End at: 2019-03-27 06:46:45
Local clock offset: -0.451 ms
Remote clock offset: 0.914 ms

# Below is generated by plot.py at 2019-03-27 08:47:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.70 Mbit/s
95th percentile per-packet one-way delay: 21.114 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.70 Mbit/s
95th percentile per-packet one-way delay: 21.114 ms
Loss rate: 0.09%
```

Run 1: Report of PCC-Allegro — Data Link

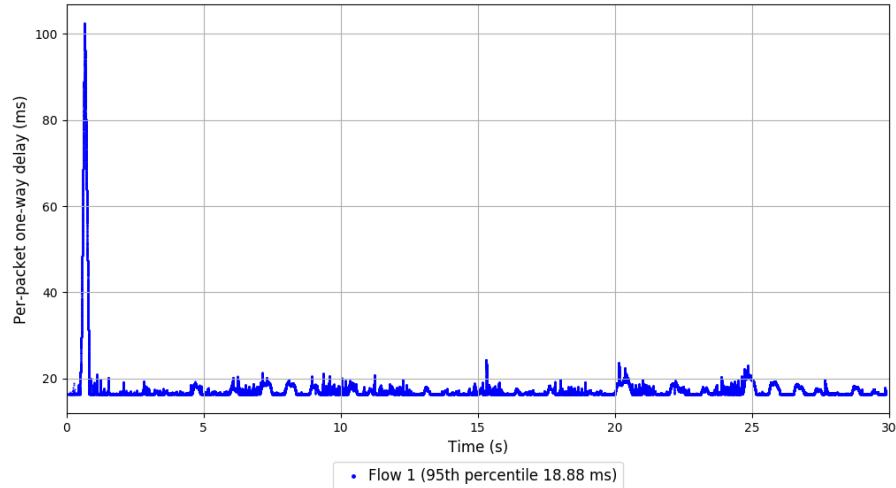
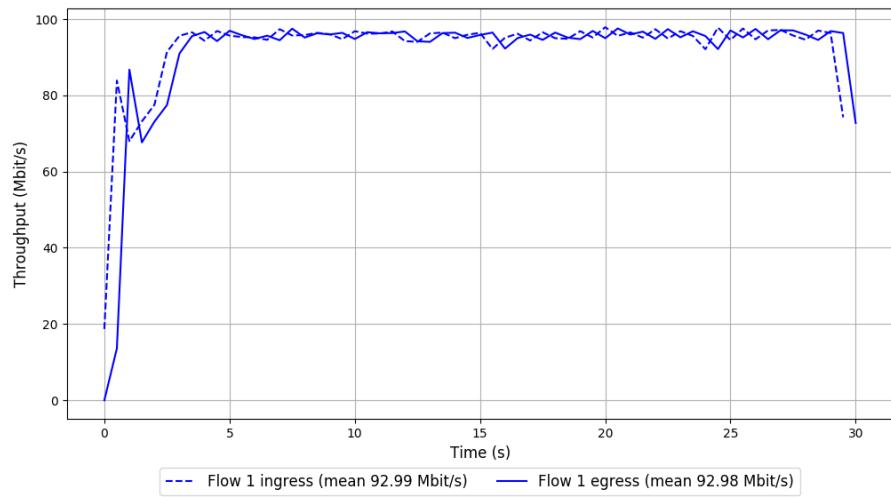


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-27 07:12:09
End at: 2019-03-27 07:12:39
Local clock offset: -0.237 ms
Remote clock offset: -0.693 ms

# Below is generated by plot.py at 2019-03-27 08:47:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.98 Mbit/s
95th percentile per-packet one-way delay: 18.881 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.98 Mbit/s
95th percentile per-packet one-way delay: 18.881 ms
Loss rate: 0.09%
```

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

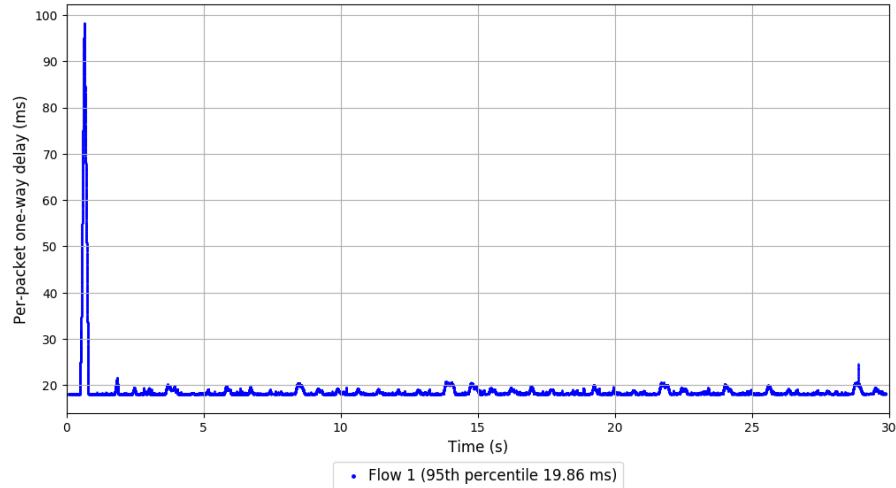
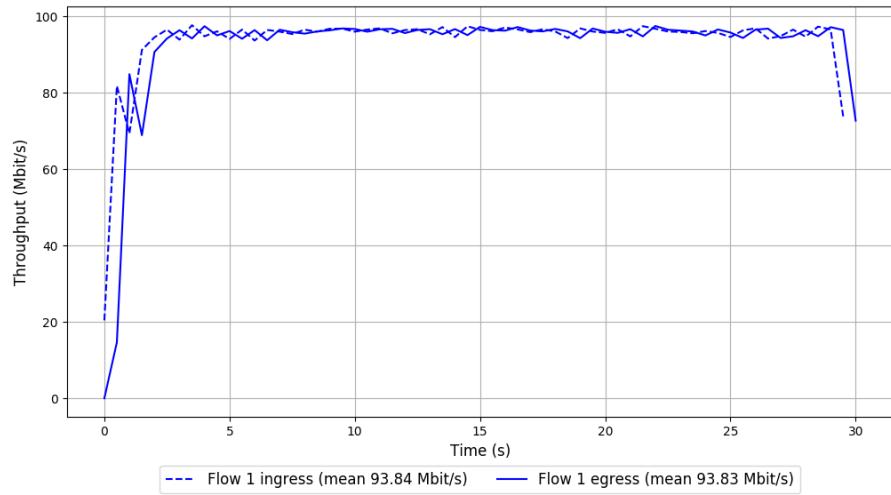


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-27 07:37:43
End at: 2019-03-27 07:38:13
Local clock offset: 1.83 ms
Remote clock offset: 0.968 ms

# Below is generated by plot.py at 2019-03-27 08:47:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.83 Mbit/s
95th percentile per-packet one-way delay: 19.864 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.83 Mbit/s
95th percentile per-packet one-way delay: 19.864 ms
Loss rate: 0.09%
```

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

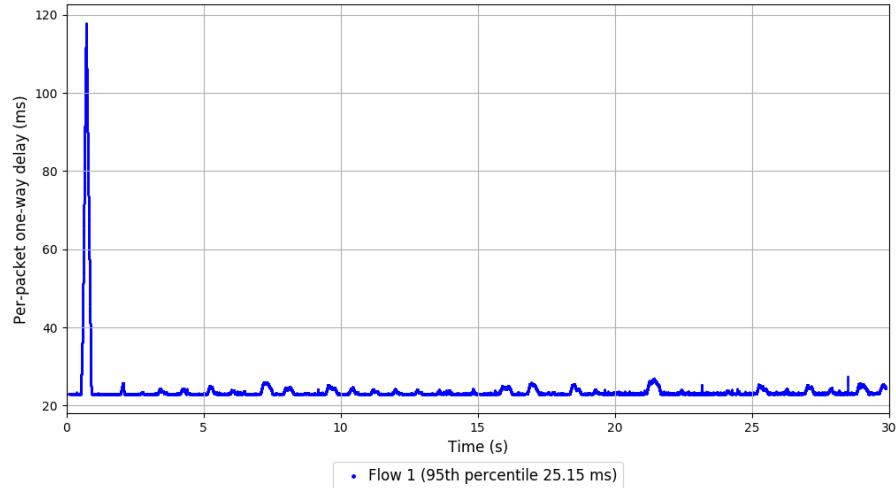
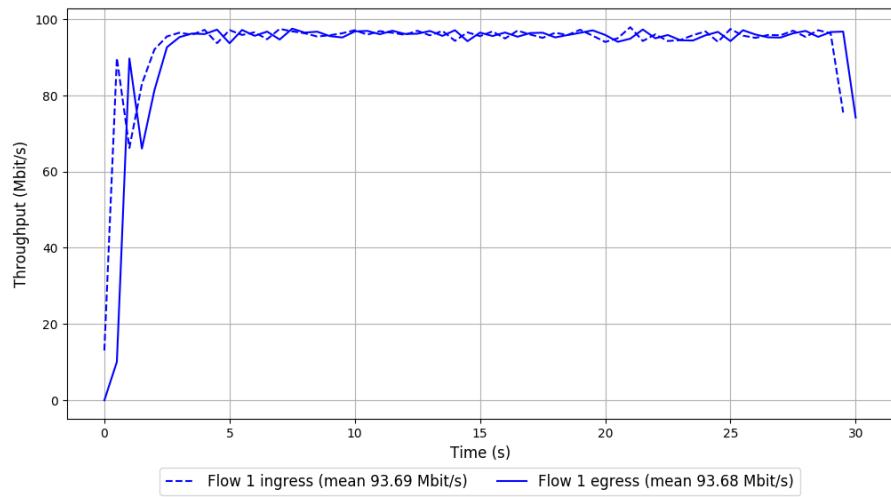


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-27 08:02:20
End at: 2019-03-27 08:02:50
Local clock offset: -1.049 ms
Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2019-03-27 08:48:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 25.147 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 25.147 ms
Loss rate: 0.11%
```

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

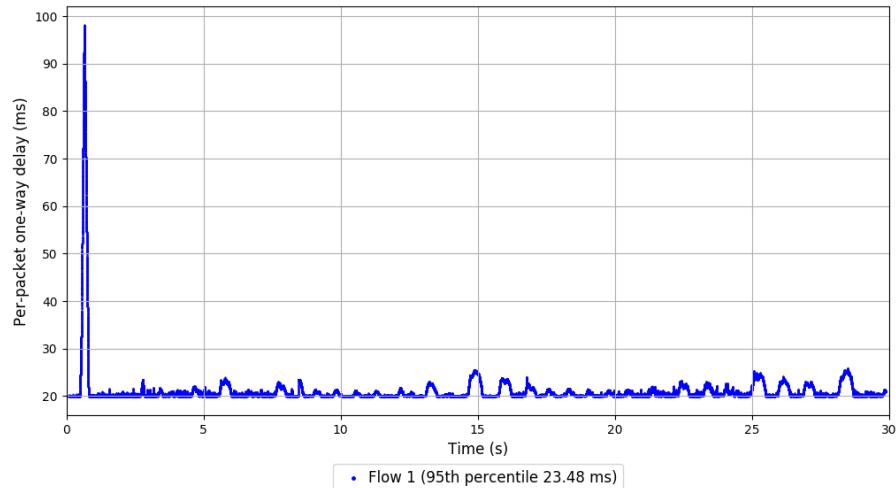
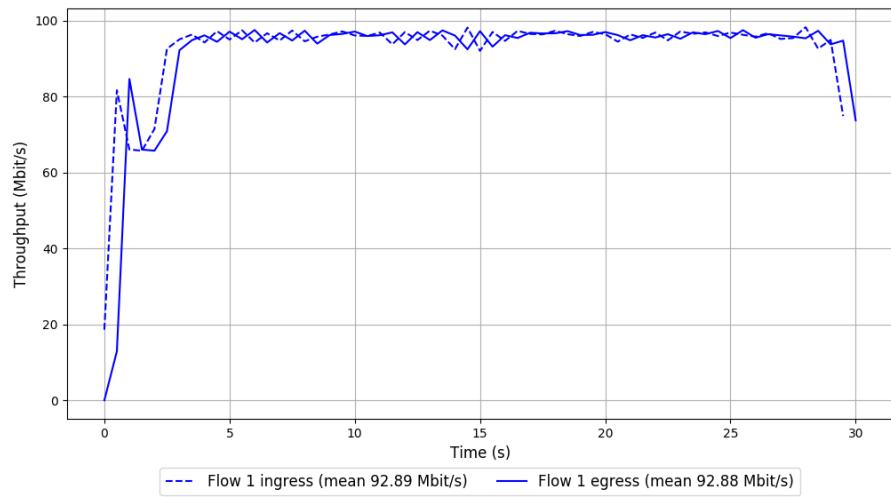


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-27 08:27:09
End at: 2019-03-27 08:27:39
Local clock offset: -0.813 ms
Remote clock offset: 1.175 ms

# Below is generated by plot.py at 2019-03-27 08:48:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 23.478 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 23.478 ms
Loss rate: 0.09%
```

Run 5: Report of PCC-Allegro — Data Link

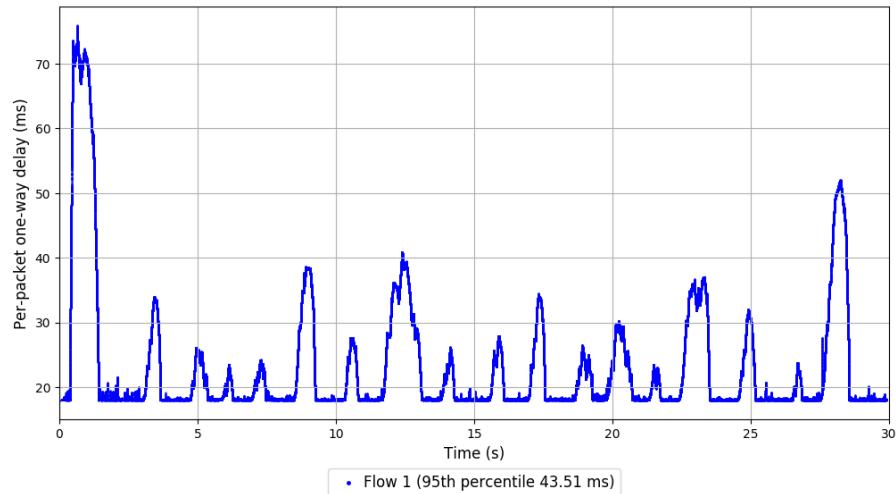
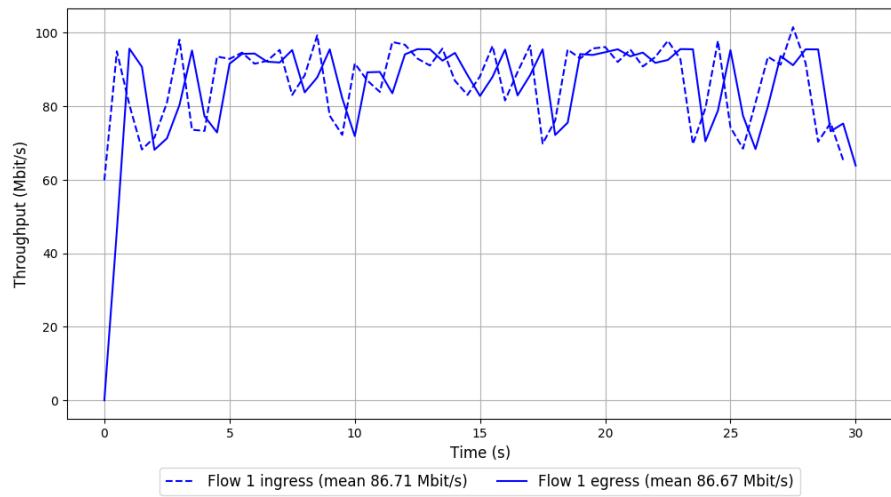


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-03-27 06:42:06
End at: 2019-03-27 06:42:36
Local clock offset: -0.746 ms
Remote clock offset: 0.495 ms

# Below is generated by plot.py at 2019-03-27 08:49:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.67 Mbit/s
95th percentile per-packet one-way delay: 43.511 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 86.67 Mbit/s
95th percentile per-packet one-way delay: 43.511 ms
Loss rate: 0.12%
```

Run 1: Report of PCC-Expr — Data Link

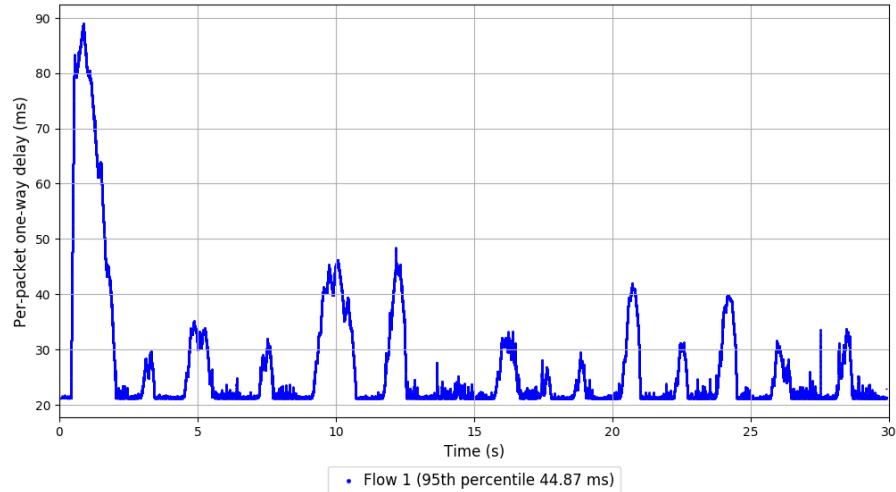
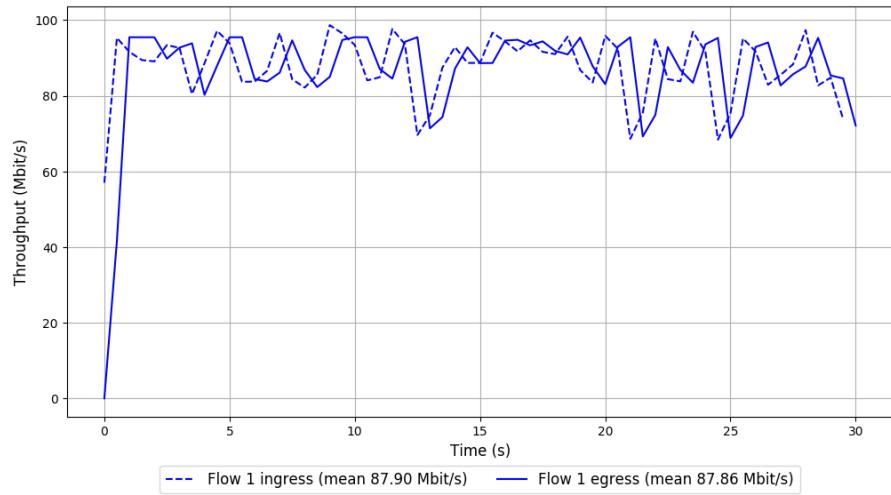


Run 2: Statistics of PCC-Expr

```
Start at: 2019-03-27 07:08:11
End at: 2019-03-27 07:08:41
Local clock offset: 0.812 ms
Remote clock offset: -0.934 ms

# Below is generated by plot.py at 2019-03-27 08:49:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.86 Mbit/s
95th percentile per-packet one-way delay: 44.869 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 87.86 Mbit/s
95th percentile per-packet one-way delay: 44.869 ms
Loss rate: 0.14%
```

Run 2: Report of PCC-Expr — Data Link

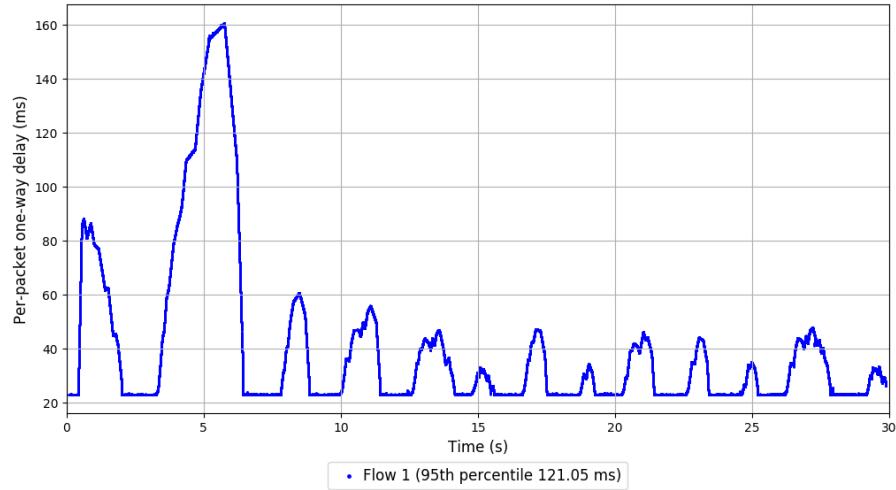
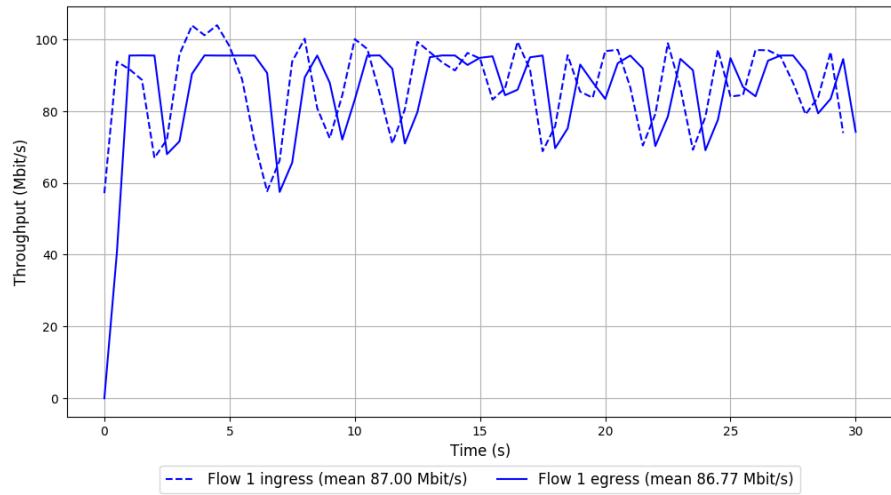


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-27 07:34:16
End at: 2019-03-27 07:34:46
Local clock offset: 2.223 ms
Remote clock offset: -0.658 ms

# Below is generated by plot.py at 2019-03-27 08:49:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.77 Mbit/s
95th percentile per-packet one-way delay: 121.050 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 86.77 Mbit/s
95th percentile per-packet one-way delay: 121.050 ms
Loss rate: 0.36%
```

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

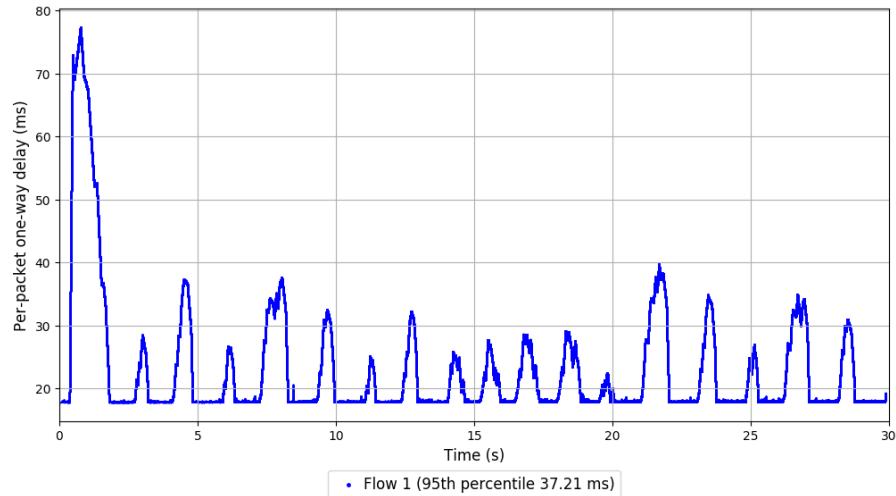
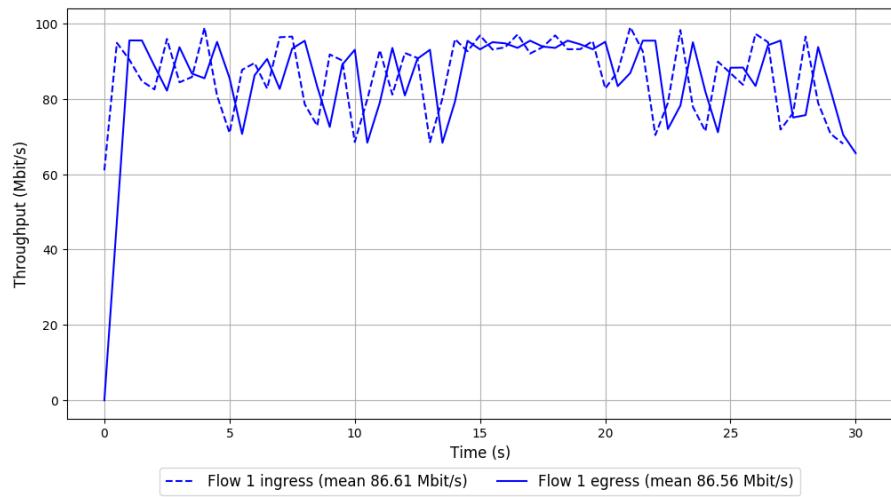


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-27 07:58:51
End at: 2019-03-27 07:59:21
Local clock offset: -1.435 ms
Remote clock offset: 1.142 ms

# Below is generated by plot.py at 2019-03-27 08:49:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.56 Mbit/s
95th percentile per-packet one-way delay: 37.213 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 86.56 Mbit/s
95th percentile per-packet one-way delay: 37.213 ms
Loss rate: 0.14%
```

Run 4: Report of PCC-Expr — Data Link

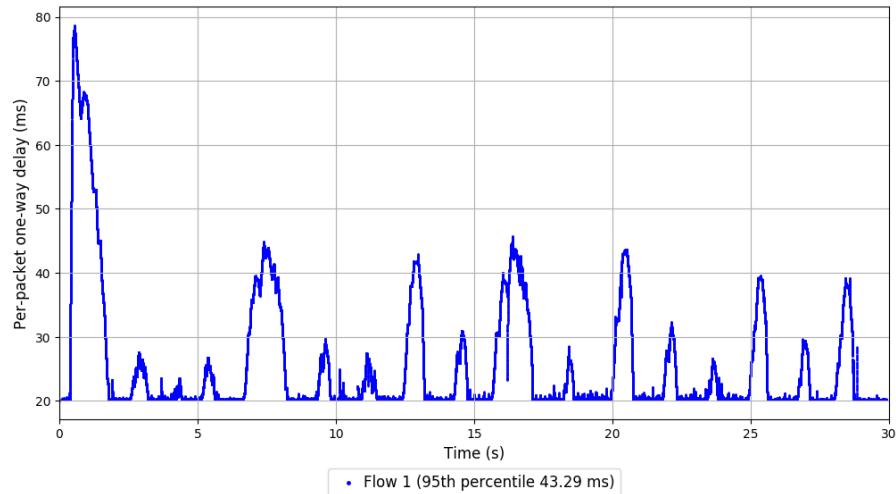
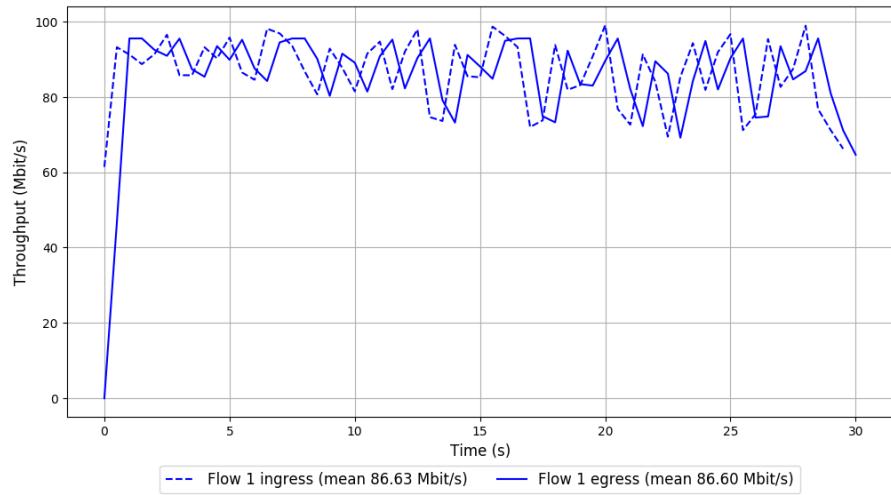


Run 5: Statistics of PCC-Expr

```
Start at: 2019-03-27 08:23:35
End at: 2019-03-27 08:24:05
Local clock offset: -0.616 ms
Remote clock offset: 1.048 ms

# Below is generated by plot.py at 2019-03-27 08:49:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.60 Mbit/s
95th percentile per-packet one-way delay: 43.288 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 86.60 Mbit/s
95th percentile per-packet one-way delay: 43.288 ms
Loss rate: 0.12%
```

Run 5: Report of PCC-Expr — Data Link

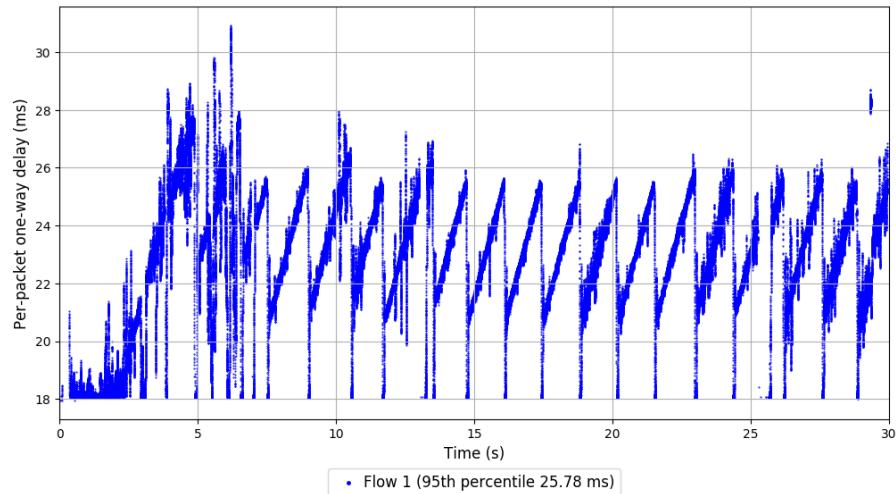
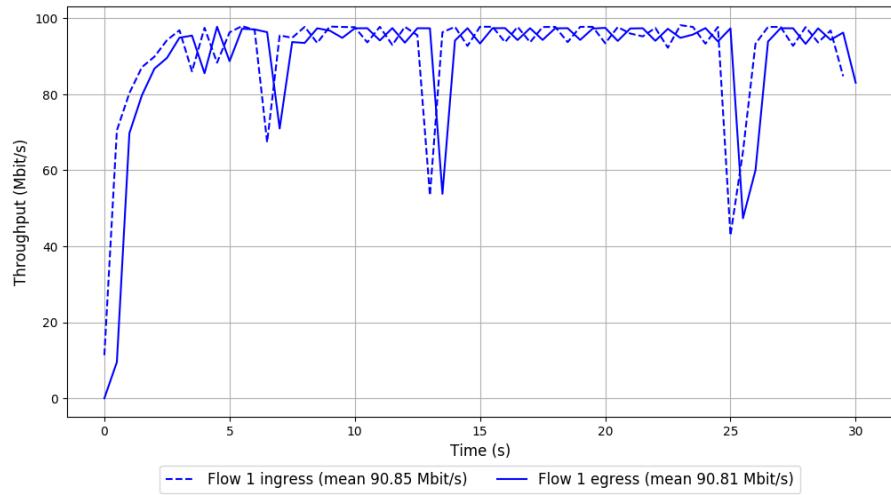


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-03-27 06:50:00
End at: 2019-03-27 06:50:30
Local clock offset: -0.32 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-03-27 08:49:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.81 Mbit/s
95th percentile per-packet one-way delay: 25.781 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 90.81 Mbit/s
95th percentile per-packet one-way delay: 25.781 ms
Loss rate: 0.12%
```

Run 1: Report of QUIC Cubic — Data Link

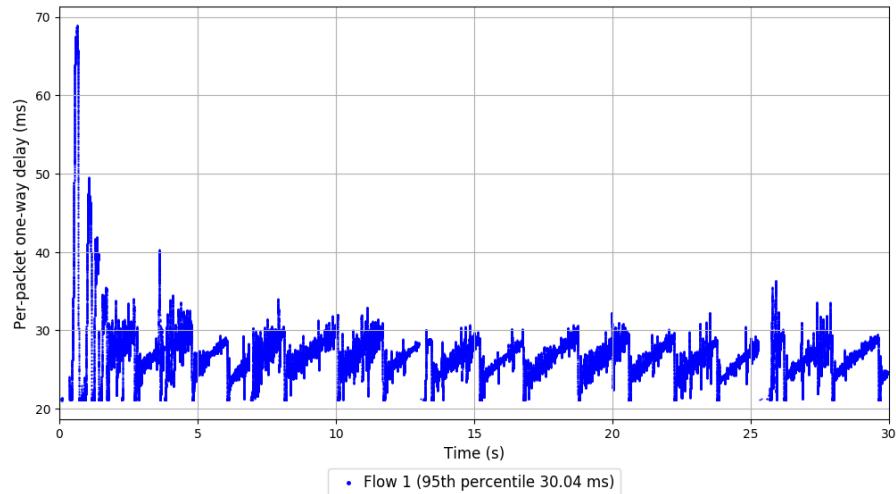
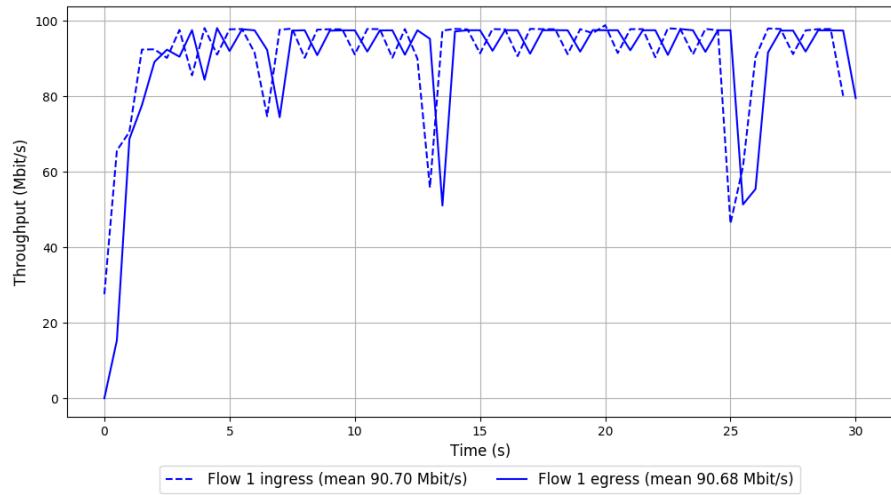


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-27 07:16:26
End at: 2019-03-27 07:16:56
Local clock offset: 1.371 ms
Remote clock offset: -0.7 ms

# Below is generated by plot.py at 2019-03-27 08:49:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.68 Mbit/s
95th percentile per-packet one-way delay: 30.042 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 90.68 Mbit/s
95th percentile per-packet one-way delay: 30.042 ms
Loss rate: 0.12%
```

Run 2: Report of QUIC Cubic — Data Link

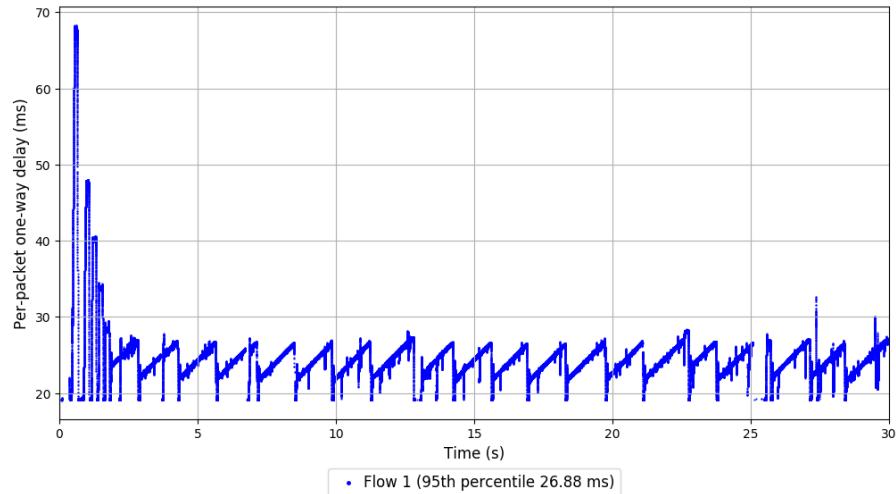
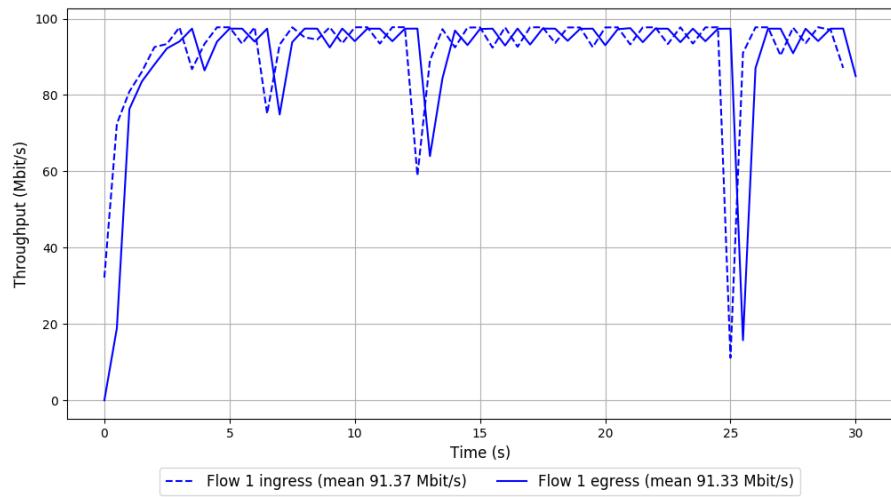


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-27 07:41:20
End at: 2019-03-27 07:41:50
Local clock offset: 1.43 ms
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2019-03-27 08:49:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 26.880 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 26.880 ms
Loss rate: 0.13%
```

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

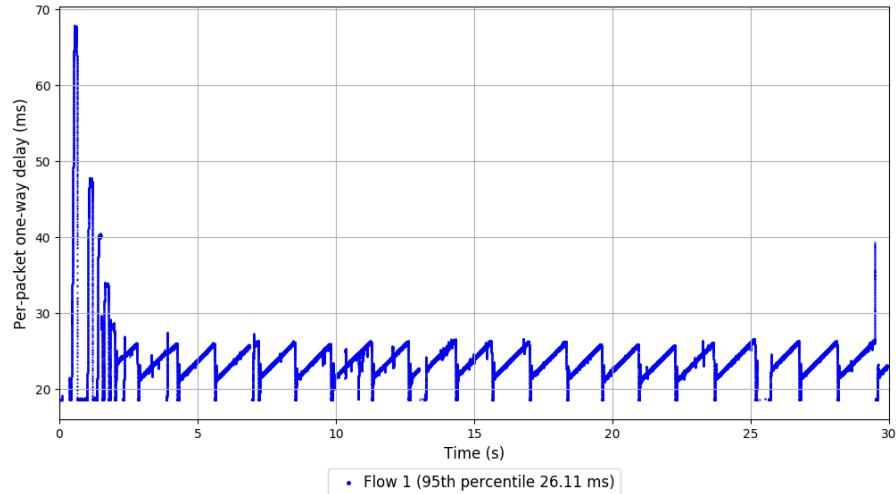
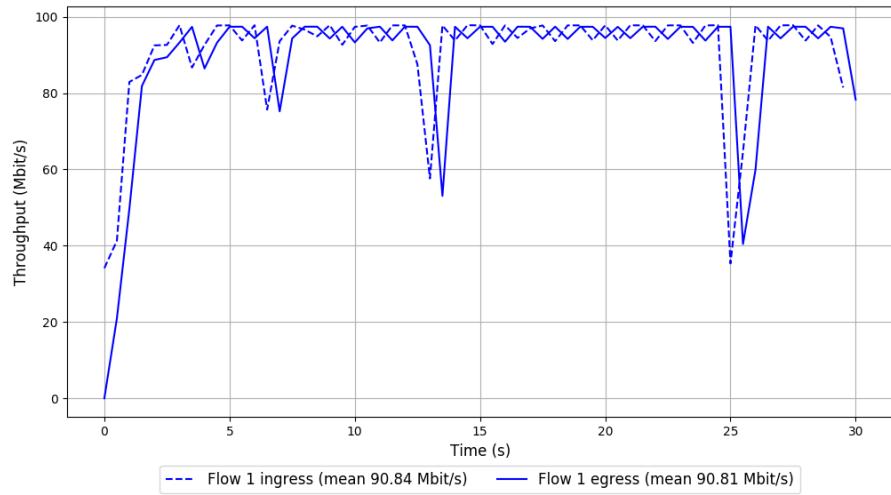


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-27 08:05:54
End at: 2019-03-27 08:06:24
Local clock offset: -1.213 ms
Remote clock offset: 1.014 ms

# Below is generated by plot.py at 2019-03-27 08:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.81 Mbit/s
95th percentile per-packet one-way delay: 26.110 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 90.81 Mbit/s
95th percentile per-packet one-way delay: 26.110 ms
Loss rate: 0.12%
```

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

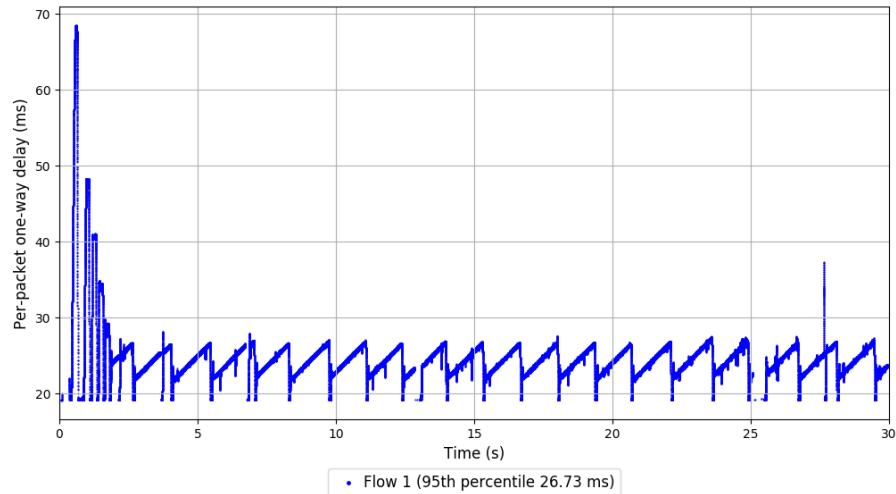
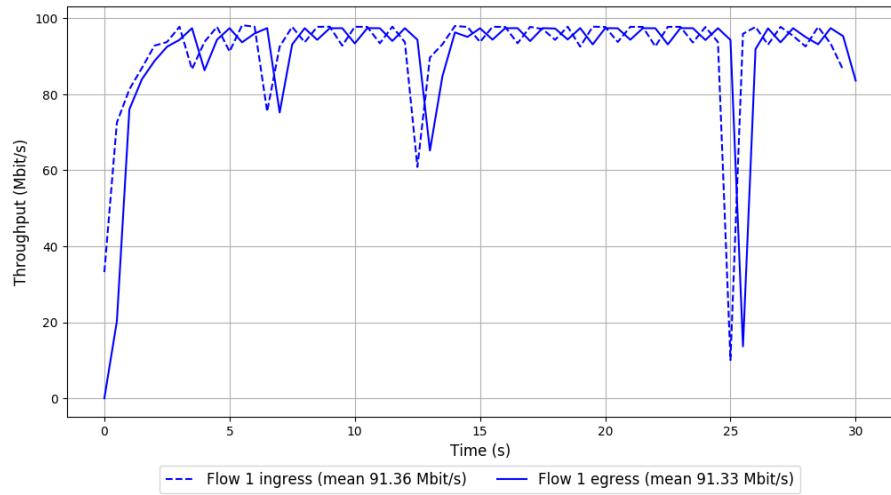


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-27 08:30:47
End at: 2019-03-27 08:31:18
Local clock offset: -1.582 ms
Remote clock offset: 1.146 ms

# Below is generated by plot.py at 2019-03-27 08:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 26.734 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 26.734 ms
Loss rate: 0.12%
```

Run 5: Report of QUIC Cubic — Data Link

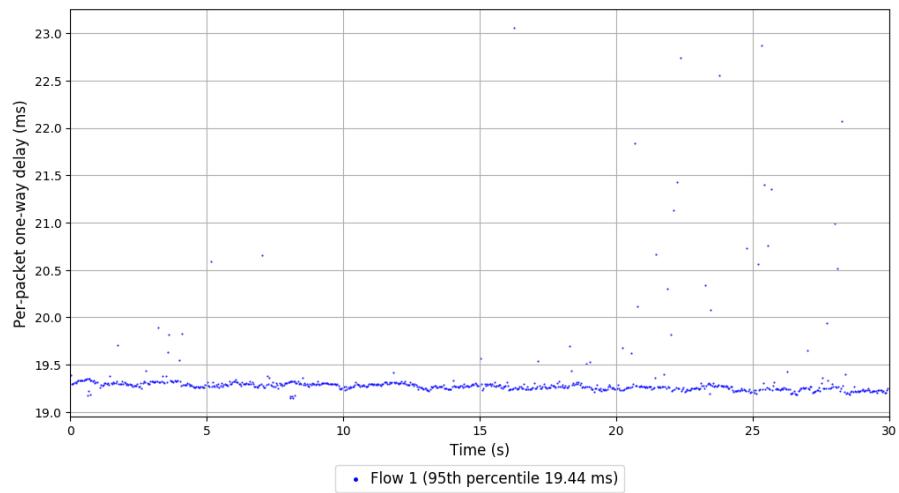
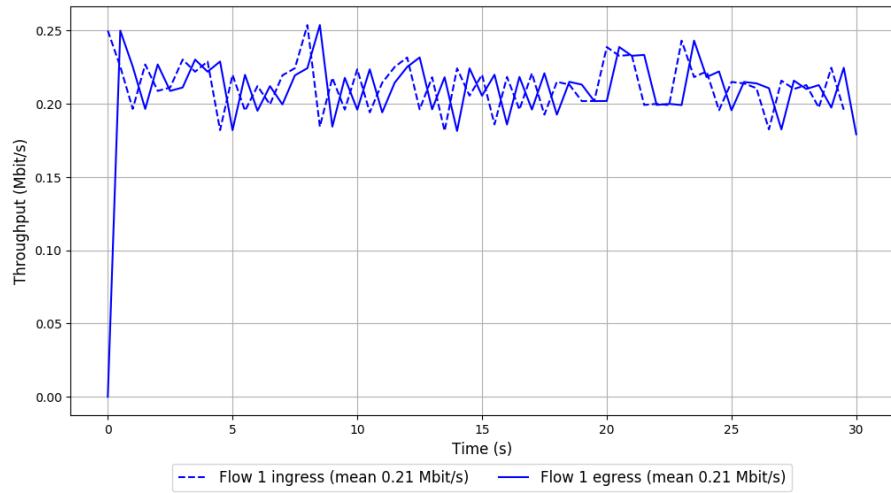


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-03-27 06:56:07
End at: 2019-03-27 06:56:37
Local clock offset: 2.062 ms
Remote clock offset: 0.397 ms

# Below is generated by plot.py at 2019-03-27 08:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 19.437 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 19.437 ms
Loss rate: 0.13%
```

## Run 1: Report of SCReAM — Data Link

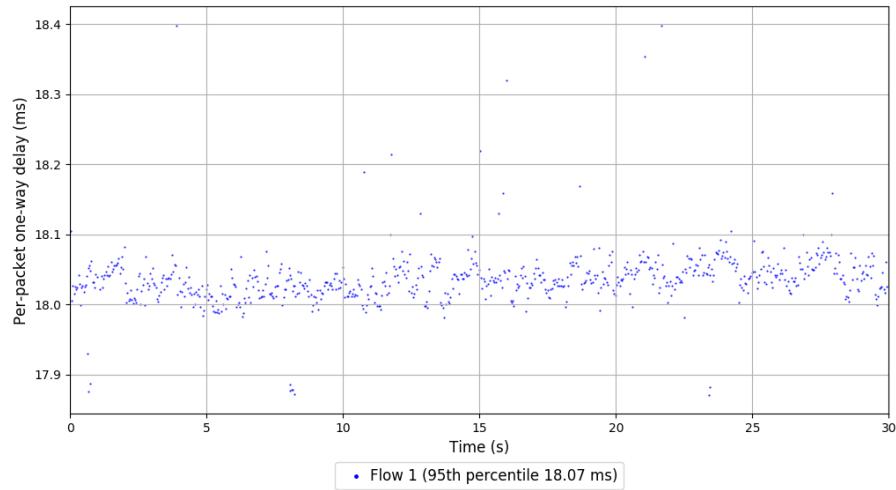
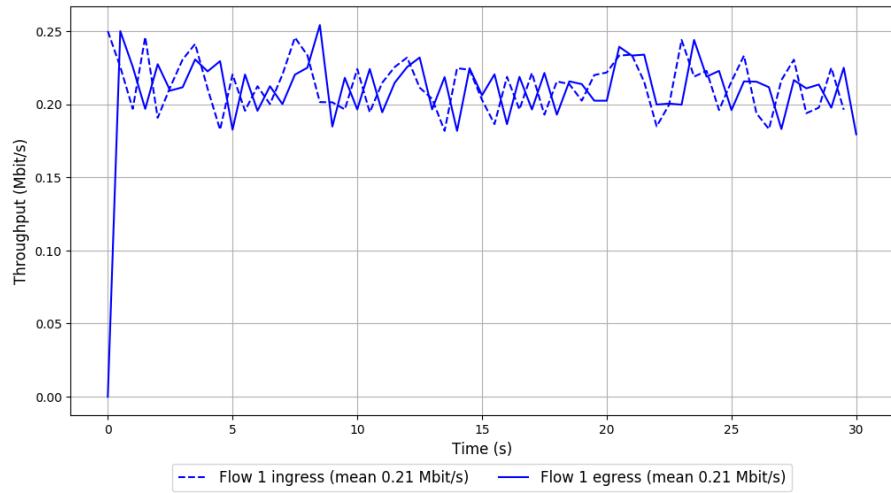


Run 2: Statistics of SCReAM

```
Start at: 2019-03-27 07:22:37
End at: 2019-03-27 07:23:07
Local clock offset: 1.491 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2019-03-27 08:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 18.075 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 18.075 ms
Loss rate: 0.13%
```

## Run 2: Report of SCReAM — Data Link

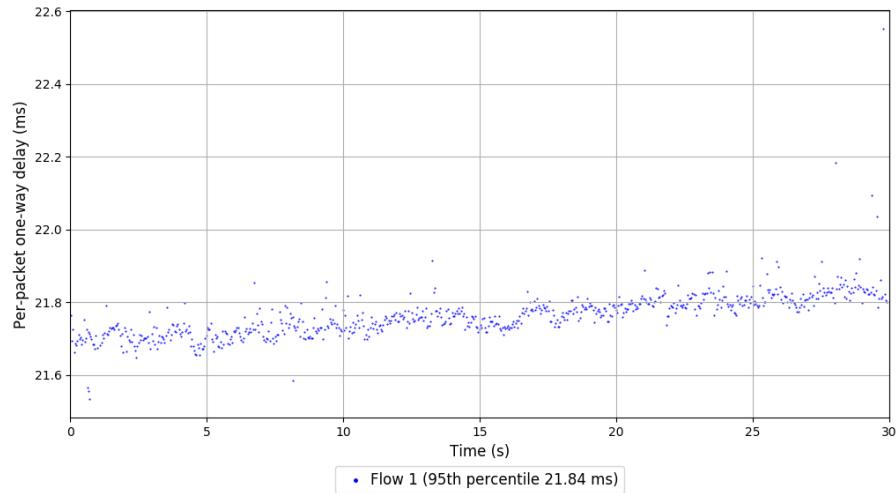
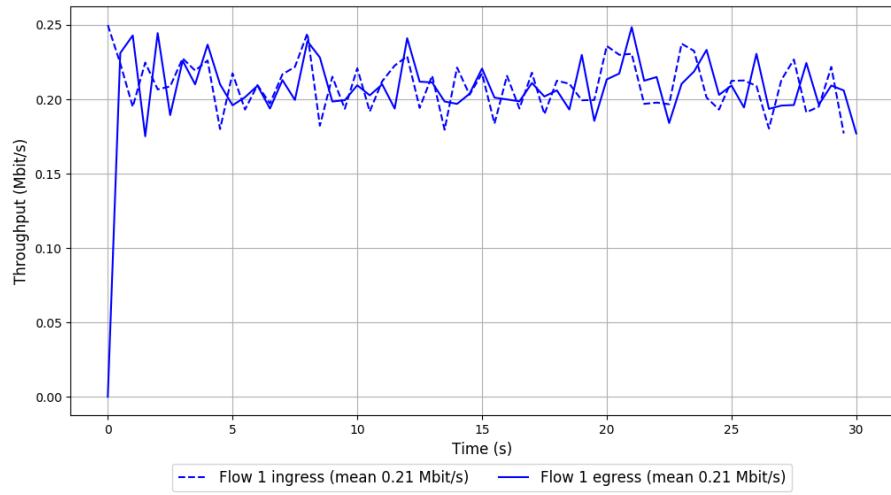


Run 3: Statistics of SCReAM

```
Start at: 2019-03-27 07:47:12
End at: 2019-03-27 07:47:42
Local clock offset: 1.123 ms
Remote clock offset: 0.665 ms

# Below is generated by plot.py at 2019-03-27 08:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 21.841 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 21.841 ms
Loss rate: 0.13%
```

Run 3: Report of SCReAM — Data Link

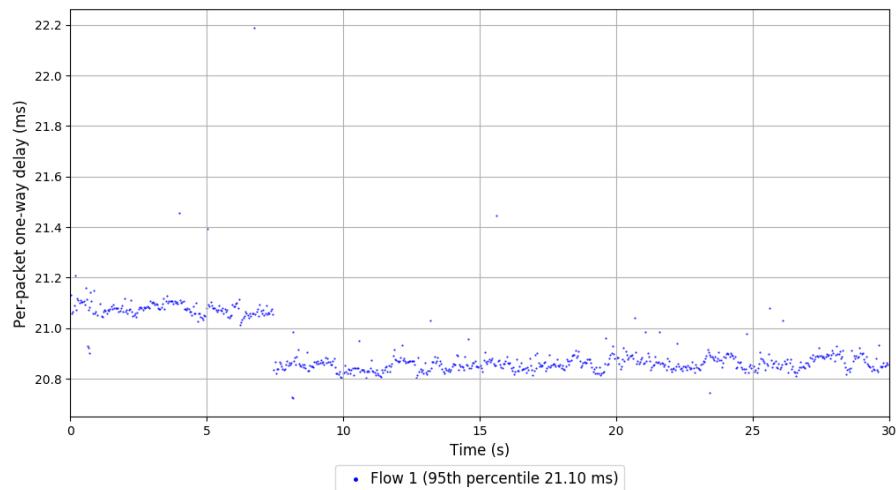
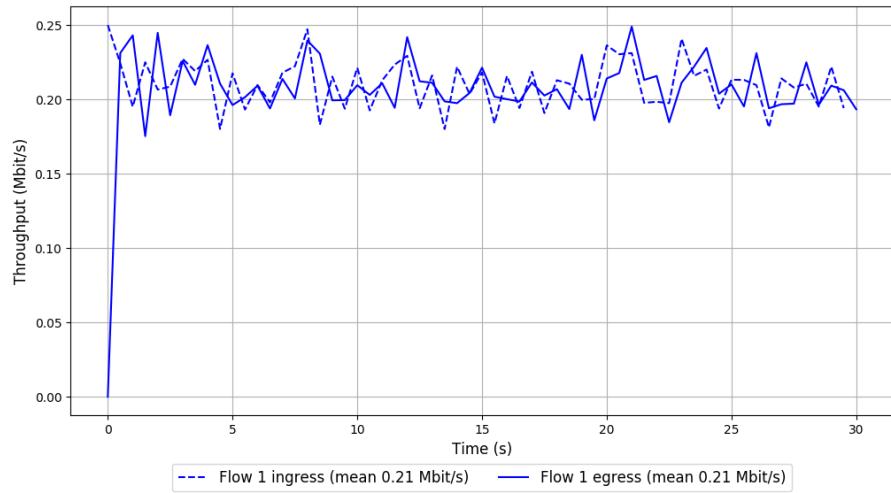


Run 4: Statistics of SCReAM

```
Start at: 2019-03-27 08:11:41
End at: 2019-03-27 08:12:11
Local clock offset: -8.208 ms
Remote clock offset: -4.717 ms

# Below is generated by plot.py at 2019-03-27 08:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 21.099 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 21.099 ms
Loss rate: 0.13%
```

Run 4: Report of SCReAM — Data Link

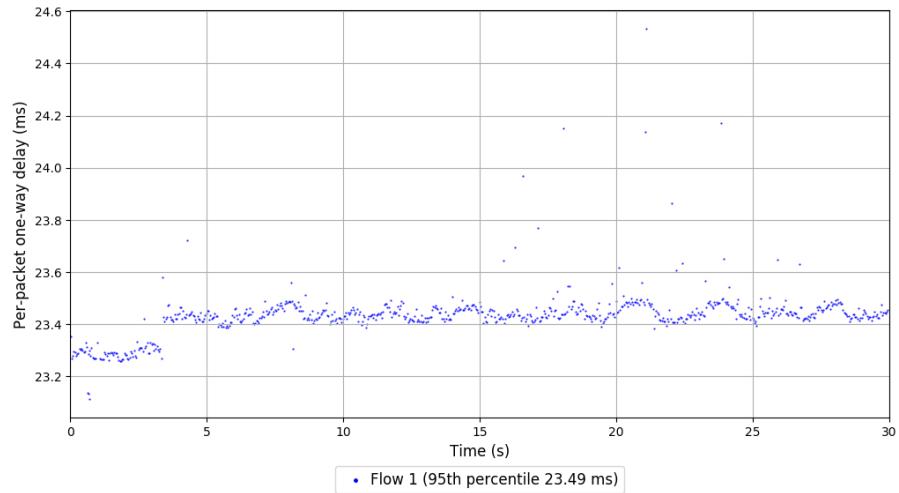
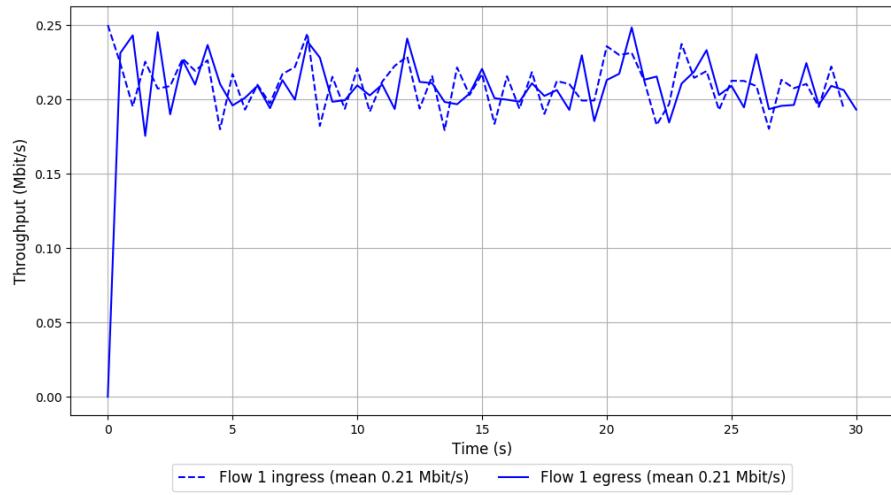


Run 5: Statistics of SCReAM

```
Start at: 2019-03-27 08:36:41
End at: 2019-03-27 08:37:11
Local clock offset: -1.125 ms
Remote clock offset: 1.133 ms

# Below is generated by plot.py at 2019-03-27 08:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 23.494 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 23.494 ms
Loss rate: 0.13%
```

Run 5: Report of SCReAM — Data Link

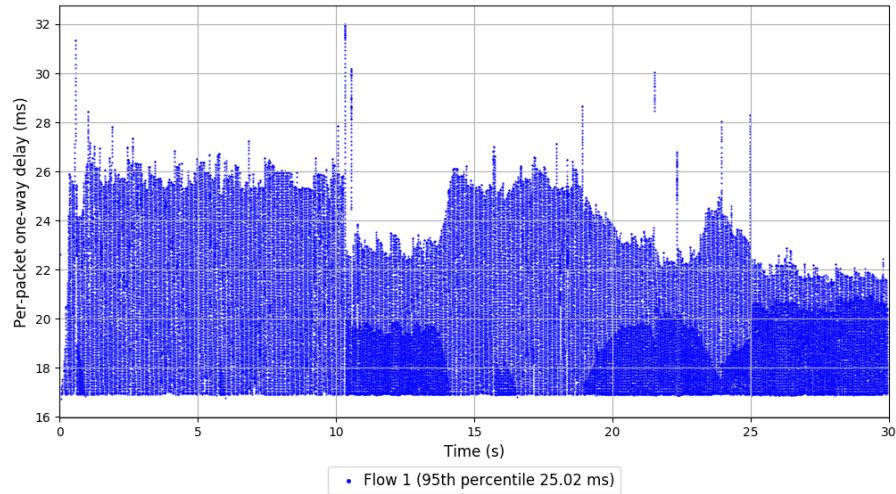
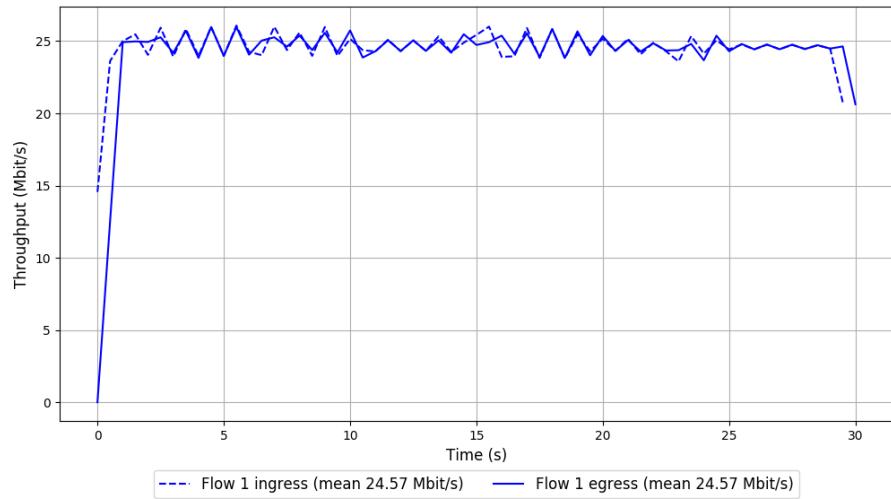


Run 1: Statistics of Sprout

```
Start at: 2019-03-27 06:45:07
End at: 2019-03-27 06:45:37
Local clock offset: -1.724 ms
Remote clock offset: 0.587 ms

# Below is generated by plot.py at 2019-03-27 08:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.57 Mbit/s
95th percentile per-packet one-way delay: 25.022 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.57 Mbit/s
95th percentile per-packet one-way delay: 25.022 ms
Loss rate: 0.07%
```

Run 1: Report of Sprout — Data Link

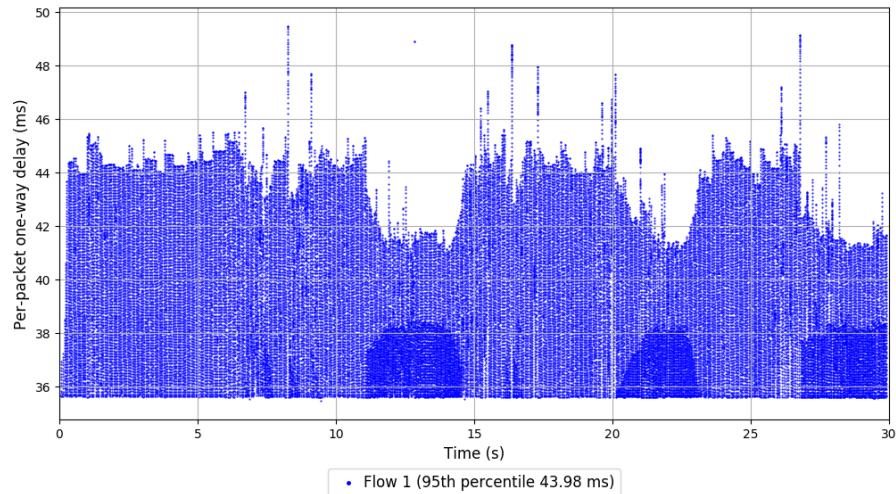
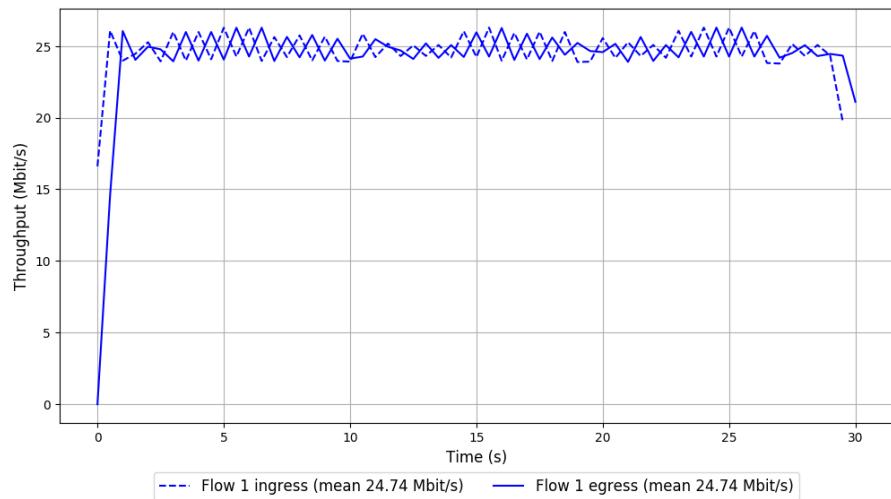


Run 2: Statistics of Sprout

```
Start at: 2019-03-27 07:11:01
End at: 2019-03-27 07:11:31
Local clock offset: 0.173 ms
Remote clock offset: -19.327 ms

# Below is generated by plot.py at 2019-03-27 08:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.74 Mbit/s
95th percentile per-packet one-way delay: 43.978 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 24.74 Mbit/s
95th percentile per-packet one-way delay: 43.978 ms
Loss rate: 0.04%
```

## Run 2: Report of Sprout — Data Link

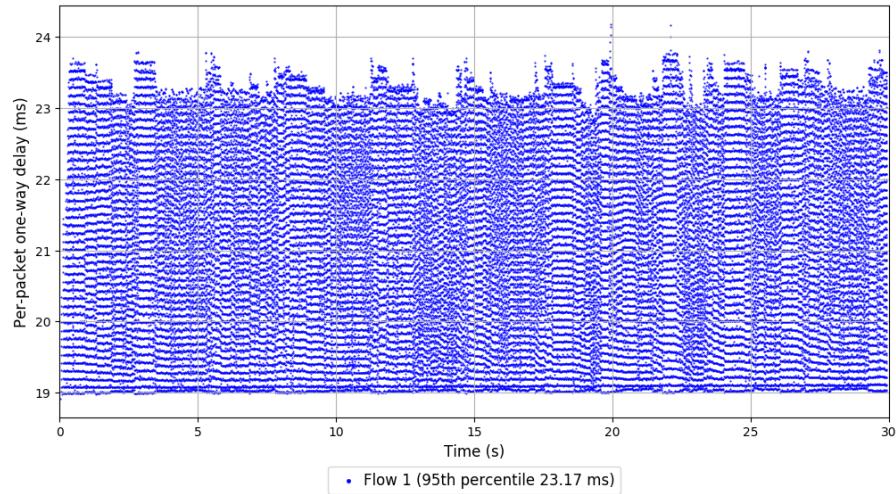
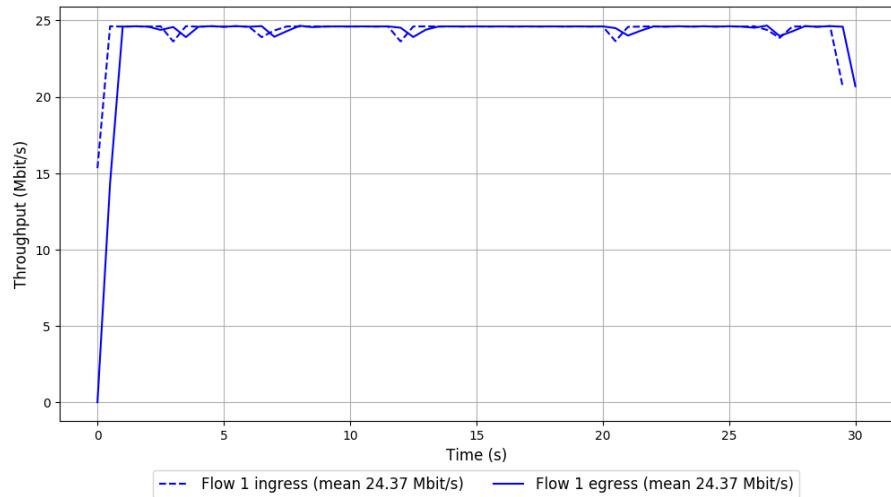


Run 3: Statistics of Sprout

```
Start at: 2019-03-27 07:36:38
End at: 2019-03-27 07:37:08
Local clock offset: 2.403 ms
Remote clock offset: 0.594 ms

# Below is generated by plot.py at 2019-03-27 08:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 23.167 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 23.167 ms
Loss rate: 0.07%
```

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

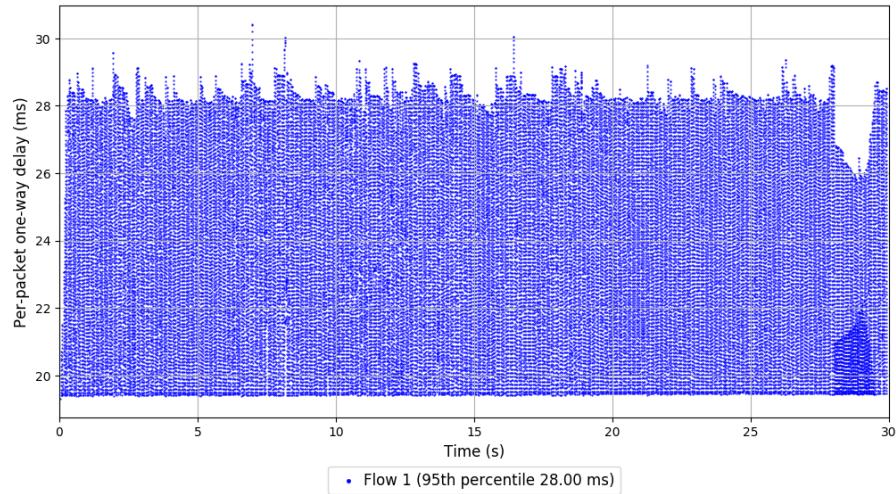
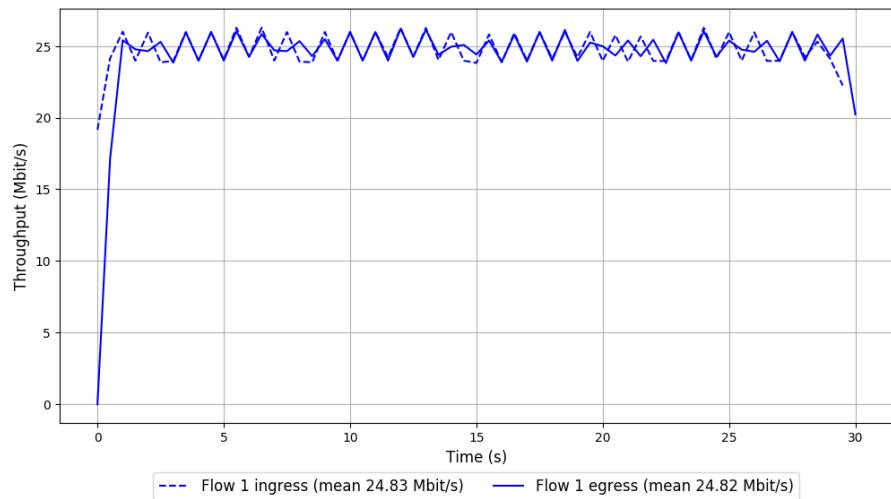


Run 4: Statistics of Sprout

```
Start at: 2019-03-27 08:01:14
End at: 2019-03-27 08:01:44
Local clock offset: -0.692 ms
Remote clock offset: 0.826 ms

# Below is generated by plot.py at 2019-03-27 08:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.82 Mbit/s
95th percentile per-packet one-way delay: 28.001 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.82 Mbit/s
95th percentile per-packet one-way delay: 28.001 ms
Loss rate: 0.14%
```

## Run 4: Report of Sprout — Data Link

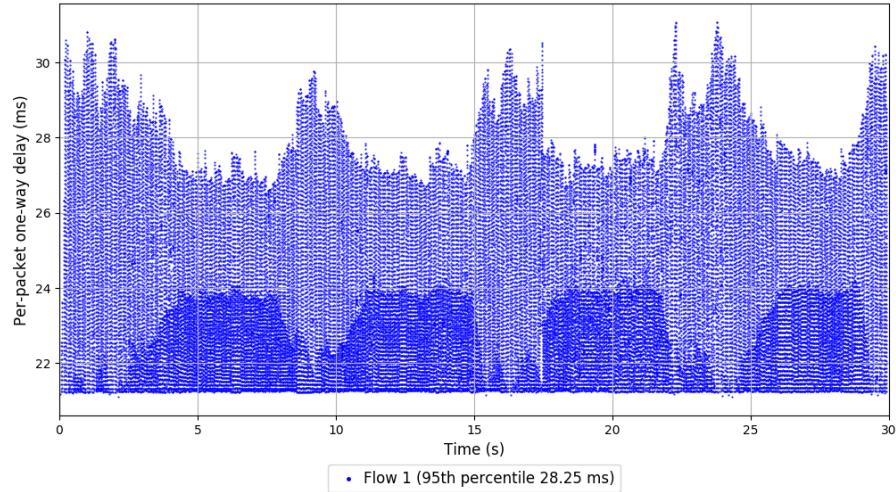
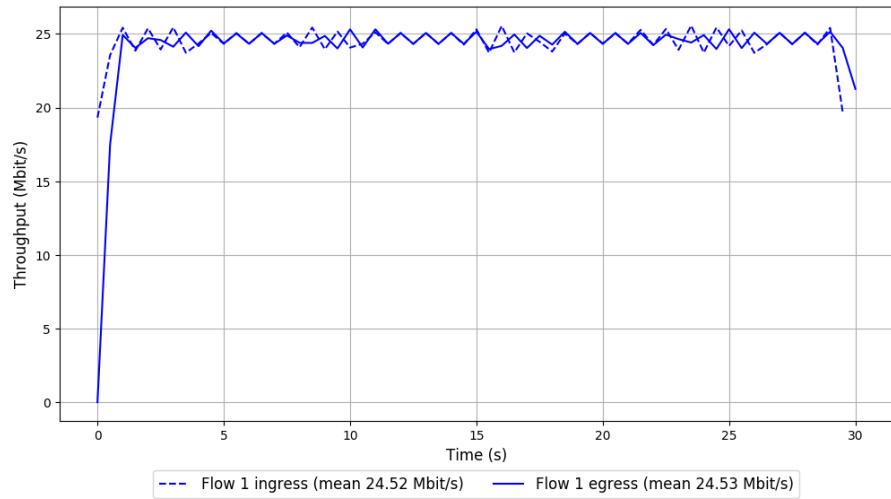


Run 5: Statistics of Sprout

```
Start at: 2019-03-27 08:26:03
End at: 2019-03-27 08:26:33
Local clock offset: -1.954 ms
Remote clock offset: 1.881 ms

# Below is generated by plot.py at 2019-03-27 08:50:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.53 Mbit/s
95th percentile per-packet one-way delay: 28.254 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 24.53 Mbit/s
95th percentile per-packet one-way delay: 28.254 ms
Loss rate: 0.02%
```

Run 5: Report of Sprout — Data Link

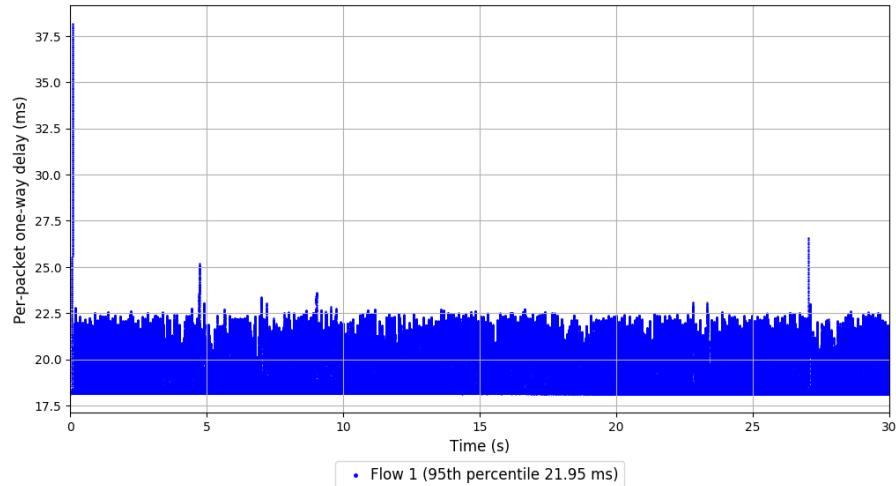
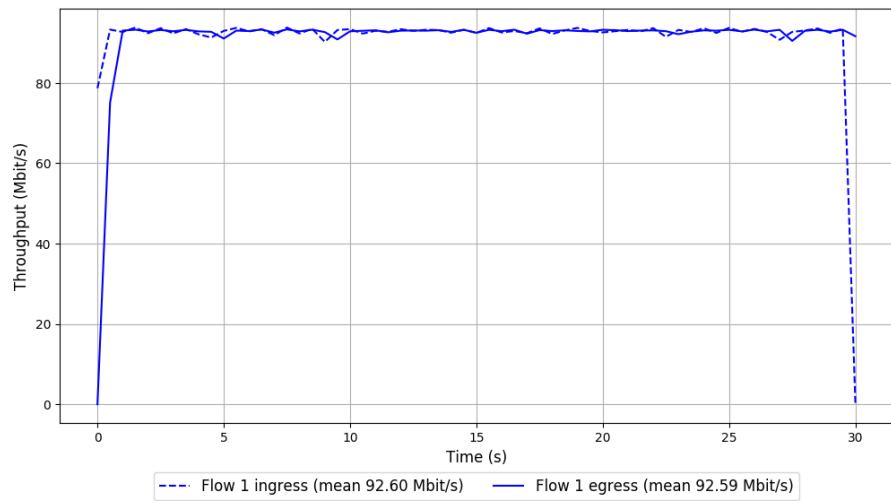


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-03-27 06:51:15
End at: 2019-03-27 06:51:45
Local clock offset: 1.494 ms
Remote clock offset: 1.528 ms

# Below is generated by plot.py at 2019-03-27 08:51:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.59 Mbit/s
95th percentile per-packet one-way delay: 21.951 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 92.59 Mbit/s
95th percentile per-packet one-way delay: 21.951 ms
Loss rate: 0.10%
```

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

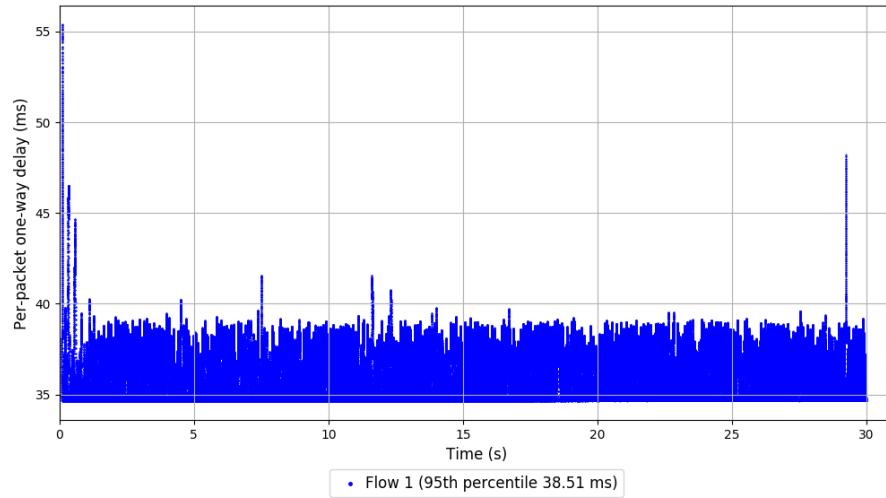
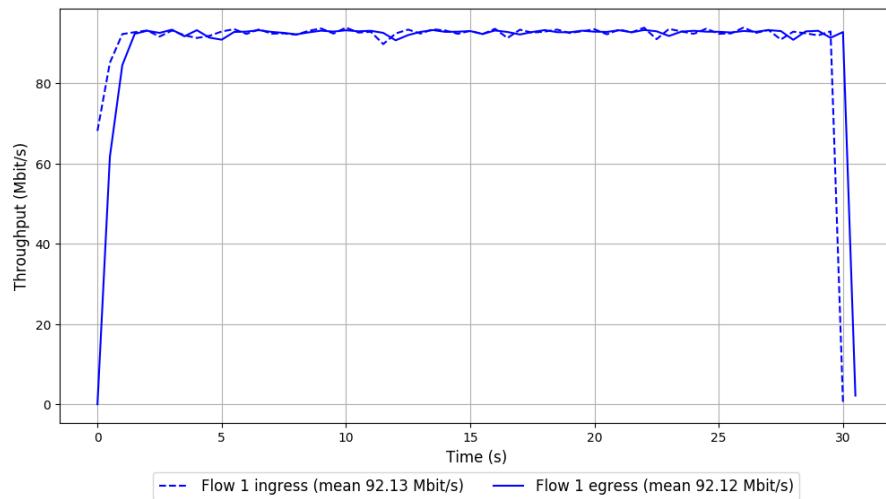


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-03-27 07:17:50
End at: 2019-03-27 07:18:20
Local clock offset: 0.931 ms
Remote clock offset: -17.571 ms

# Below is generated by plot.py at 2019-03-27 08:51:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.12 Mbit/s
95th percentile per-packet one-way delay: 38.514 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 92.12 Mbit/s
95th percentile per-packet one-way delay: 38.514 ms
Loss rate: 0.10%
```

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

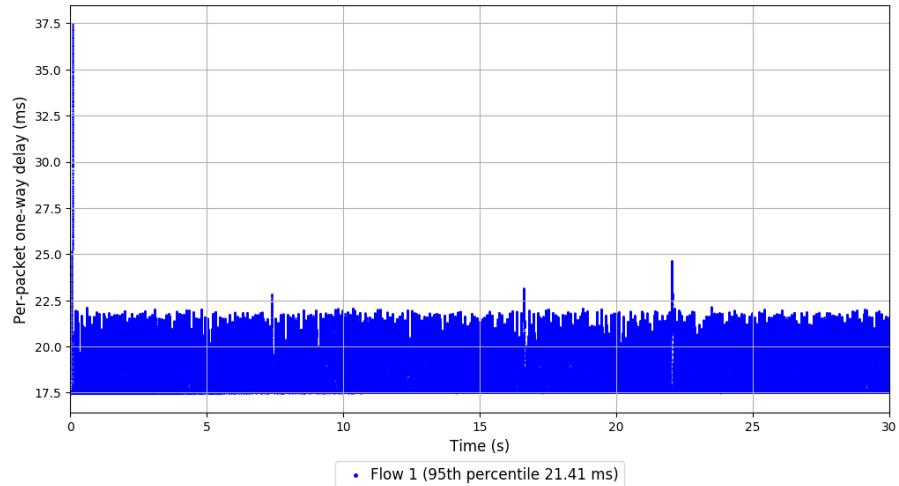
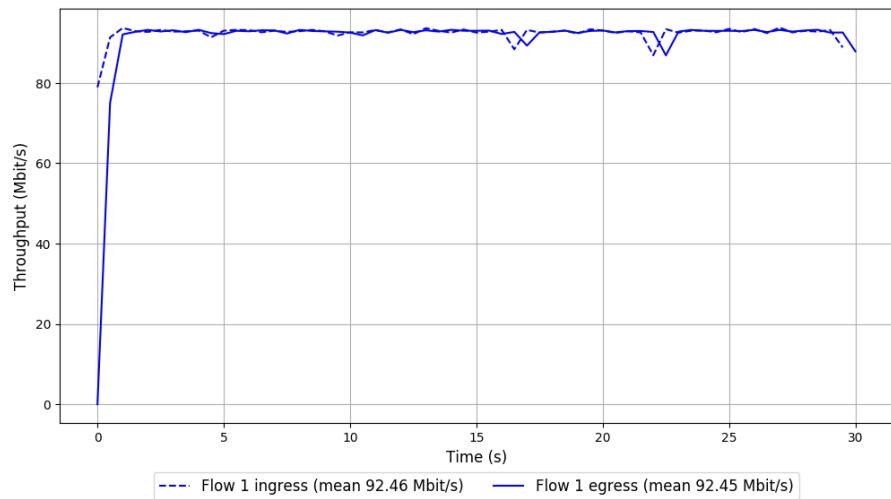


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-03-27 07:42:32
End at: 2019-03-27 07:43:02
Local clock offset: 1.039 ms
Remote clock offset: 0.965 ms

# Below is generated by plot.py at 2019-03-27 08:51:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.45 Mbit/s
95th percentile per-packet one-way delay: 21.410 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.45 Mbit/s
95th percentile per-packet one-way delay: 21.410 ms
Loss rate: 0.09%
```

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

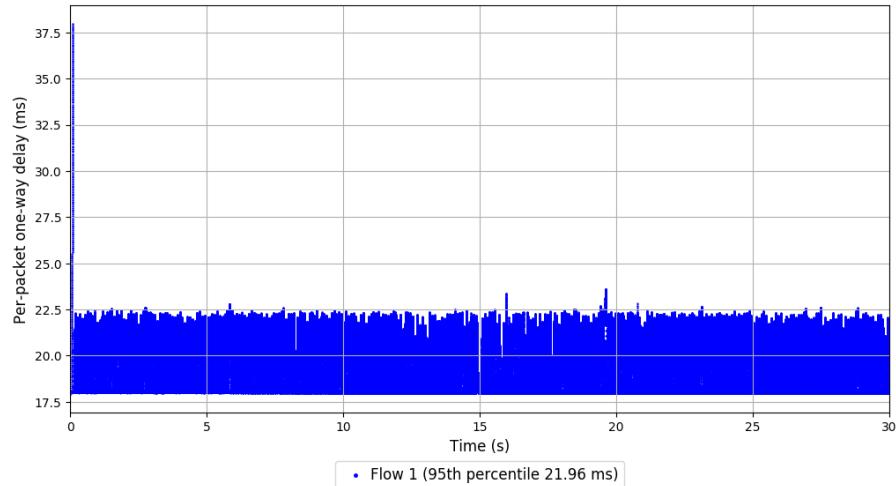
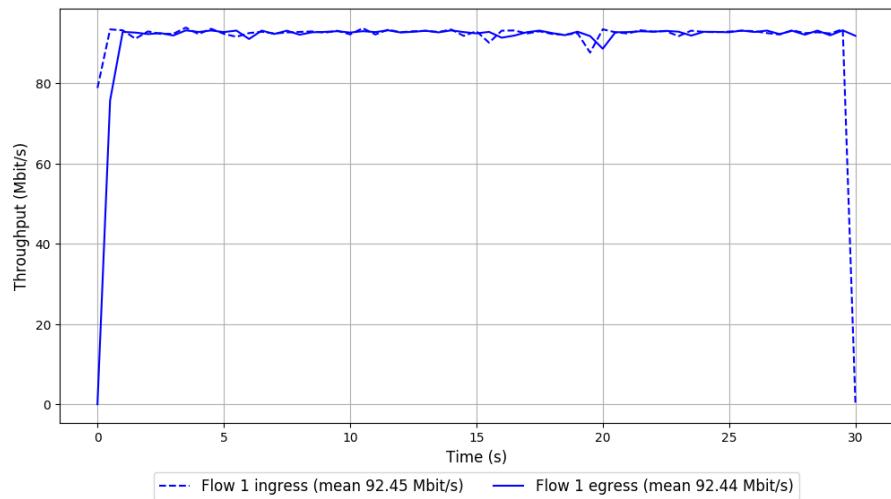


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-03-27 08:07:03
End at: 2019-03-27 08:07:33
Local clock offset: -1.09 ms
Remote clock offset: 1.815 ms

# Below is generated by plot.py at 2019-03-27 08:51:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.44 Mbit/s
95th percentile per-packet one-way delay: 21.957 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 92.44 Mbit/s
95th percentile per-packet one-way delay: 21.957 ms
Loss rate: 0.10%
```

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

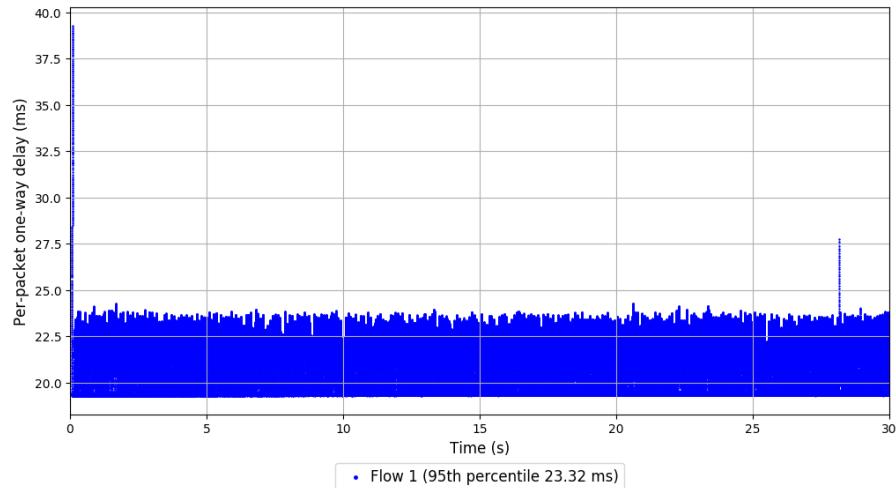
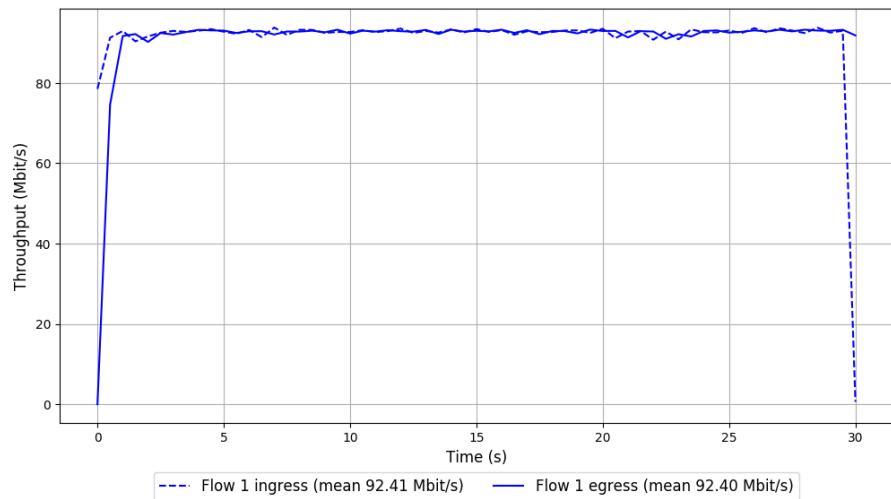


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-03-27 08:31:59
End at: 2019-03-27 08:32:29
Local clock offset: -1.502 ms
Remote clock offset: 1.413 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.40 Mbit/s
95th percentile per-packet one-way delay: 23.320 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.40 Mbit/s
95th percentile per-packet one-way delay: 23.320 ms
Loss rate: 0.09%
```

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

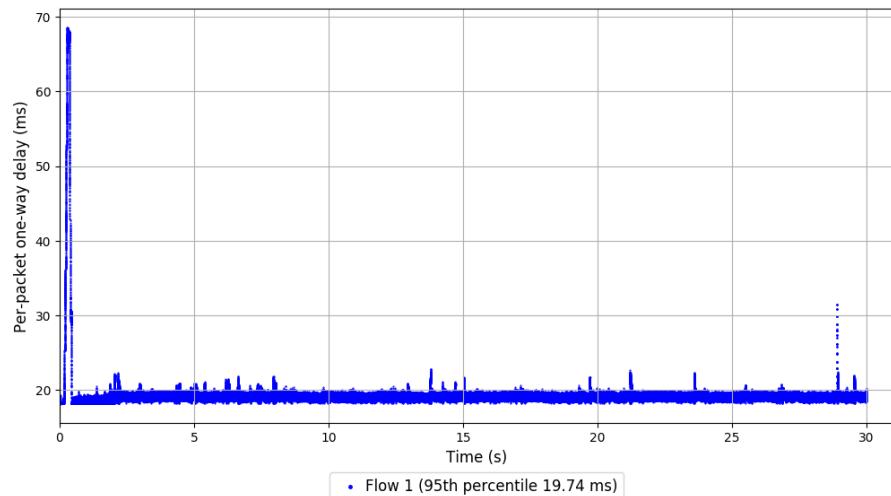
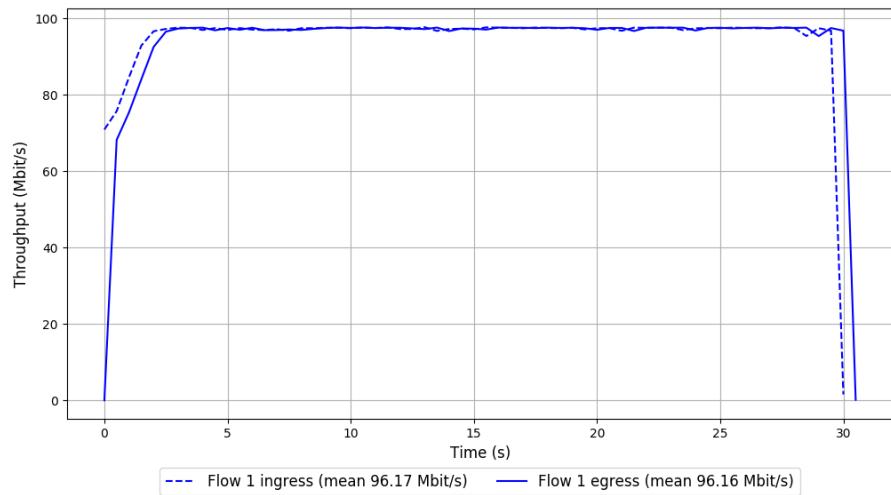


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-27 06:37:03
End at: 2019-03-27 06:37:33
Local clock offset: -0.6 ms
Remote clock offset: 0.614 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 19.741 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 19.741 ms
Loss rate: 0.09%
```

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

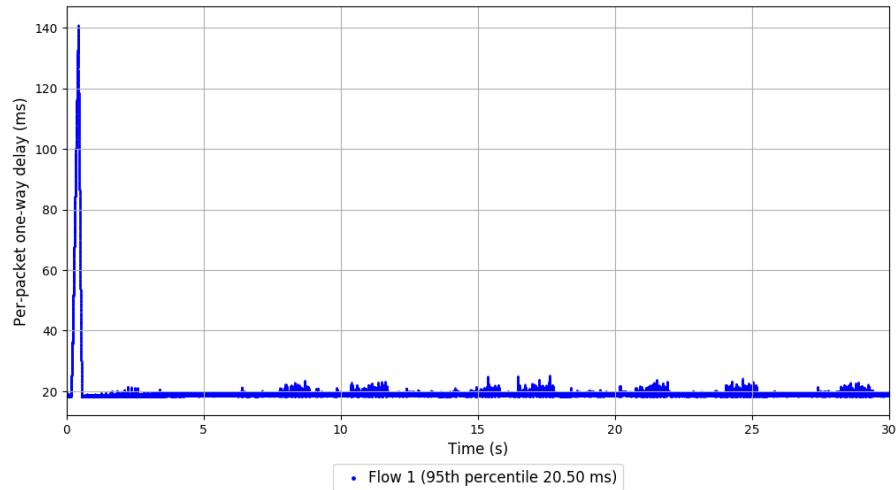
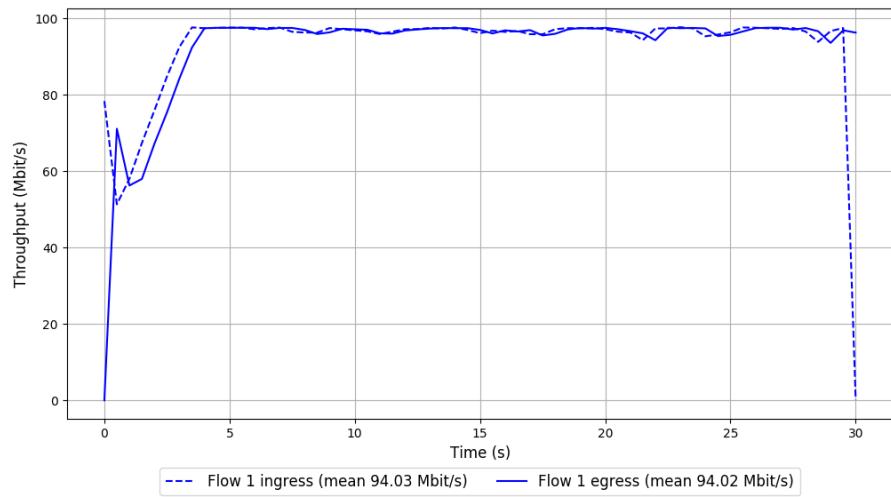


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-27 07:03:12
End at: 2019-03-27 07:03:42
Local clock offset: 1.259 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.02 Mbit/s
95th percentile per-packet one-way delay: 20.498 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.02 Mbit/s
95th percentile per-packet one-way delay: 20.498 ms
Loss rate: 0.09%
```

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

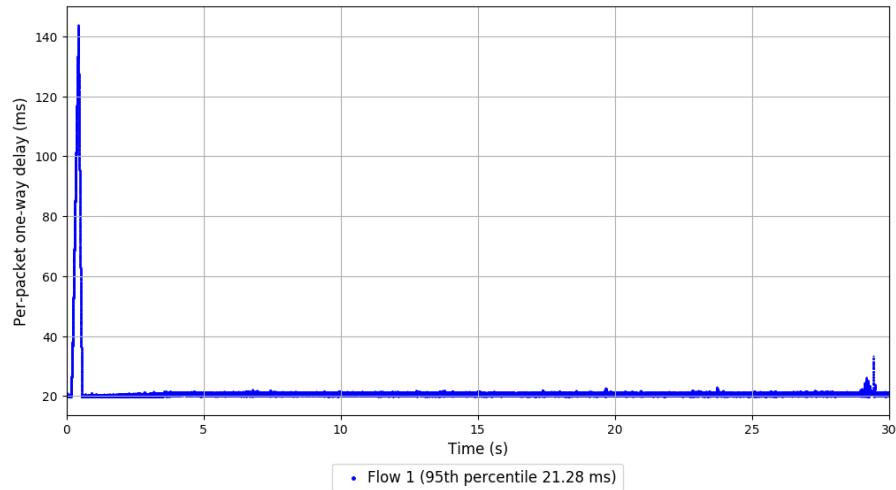
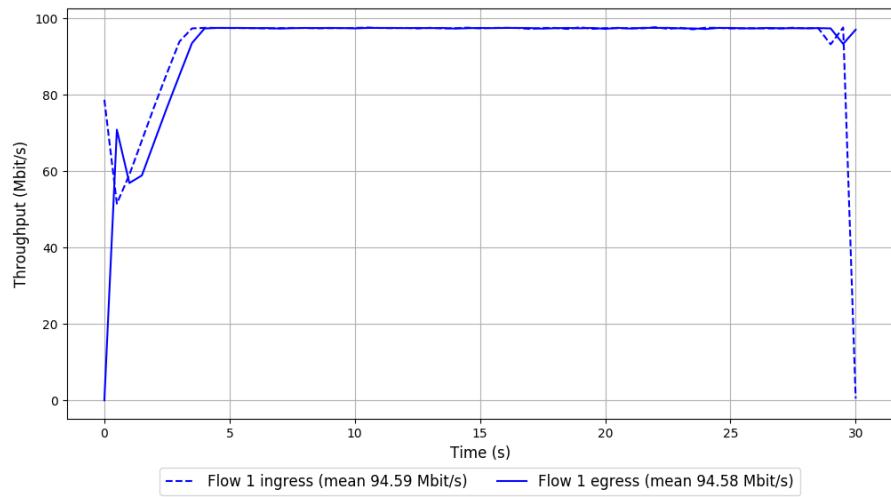


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-27 07:29:31
End at: 2019-03-27 07:30:01
Local clock offset: 2.224 ms
Remote clock offset: -0.711 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.58 Mbit/s
95th percentile per-packet one-way delay: 21.282 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 94.58 Mbit/s
95th percentile per-packet one-way delay: 21.282 ms
Loss rate: 0.09%
```

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

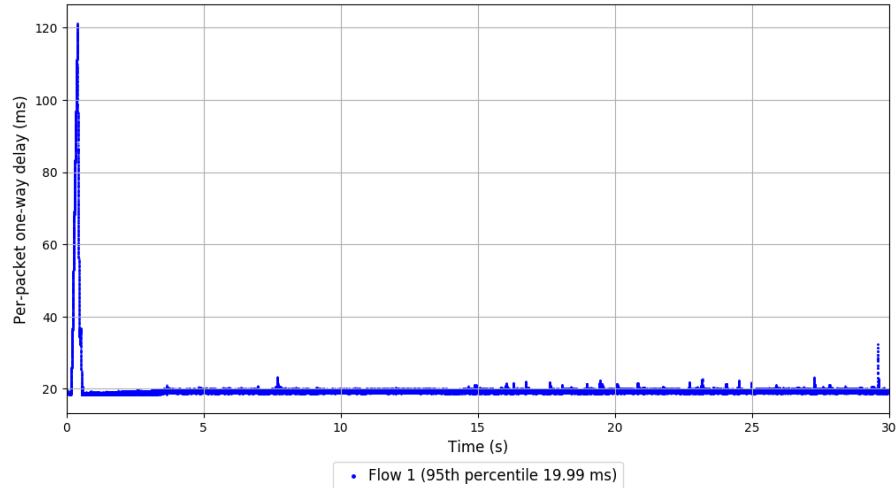
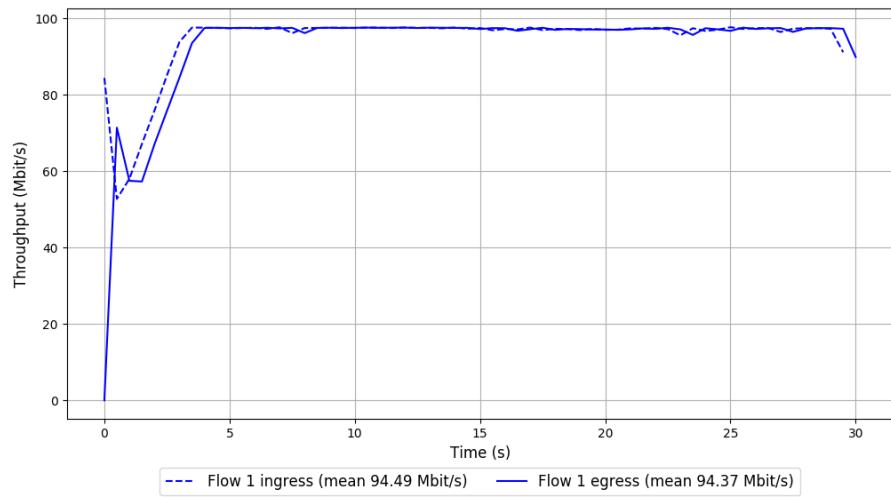


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-27 07:54:06
End at: 2019-03-27 07:54:36
Local clock offset: -0.181 ms
Remote clock offset: 1.046 ms

# Below is generated by plot.py at 2019-03-27 08:51:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 19.987 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 19.987 ms
Loss rate: 0.20%
```

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

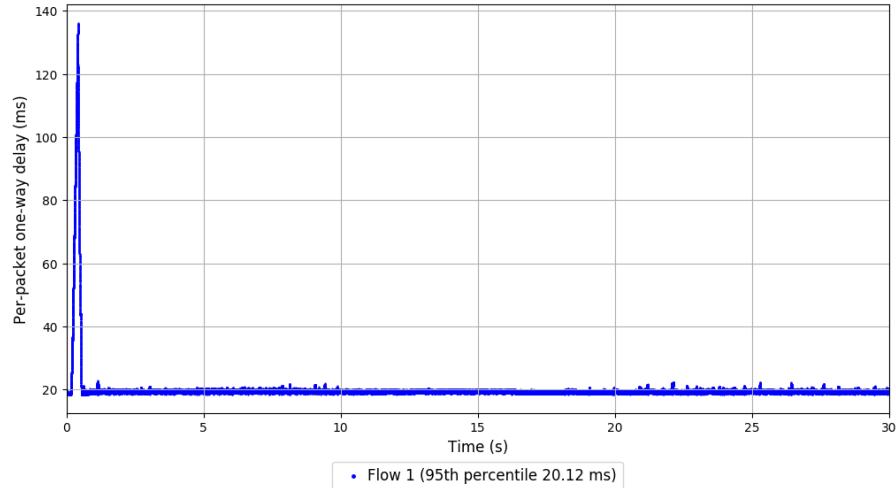
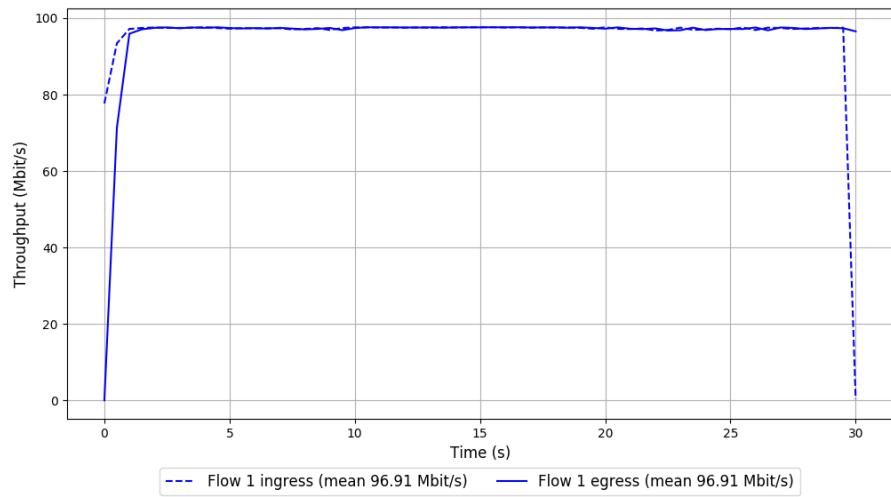


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-27 08:18:41
End at: 2019-03-27 08:19:11
Local clock offset: -1.969 ms
Remote clock offset: 1.148 ms

# Below is generated by plot.py at 2019-03-27 08:52:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.91 Mbit/s
95th percentile per-packet one-way delay: 20.119 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.91 Mbit/s
95th percentile per-packet one-way delay: 20.119 ms
Loss rate: 0.09%
```

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

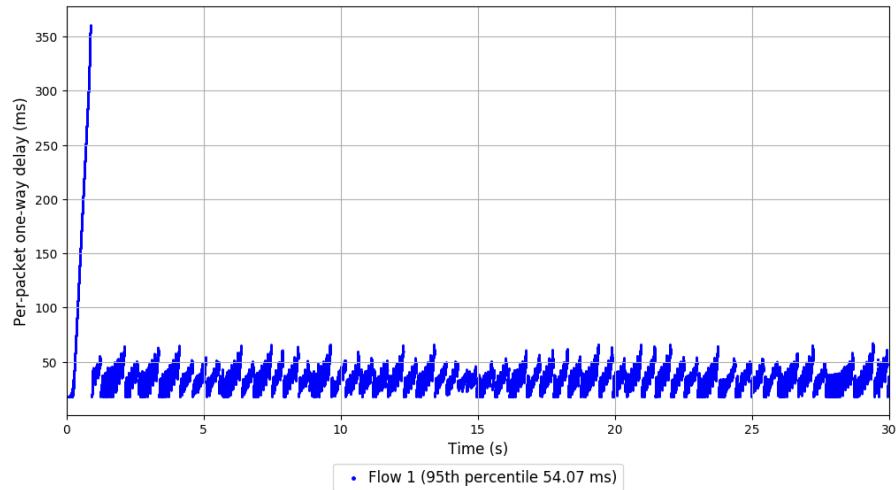
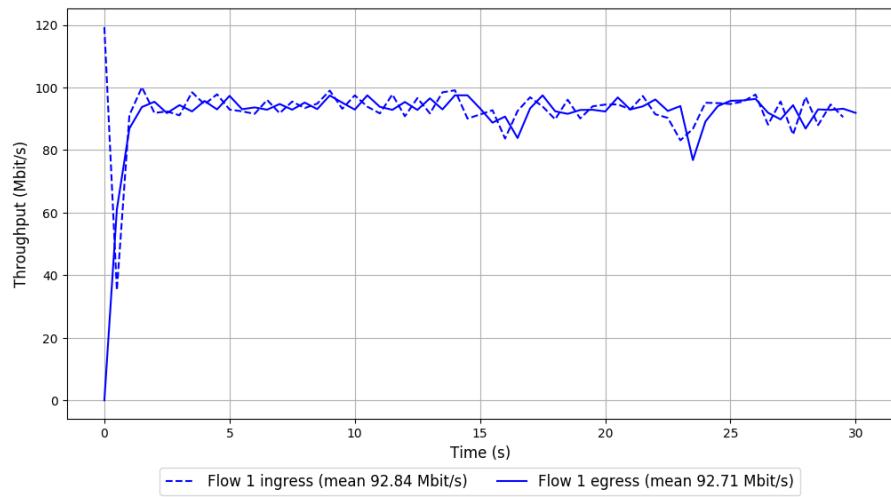


Run 1: Statistics of Verus

```
Start at: 2019-03-27 06:48:44
End at: 2019-03-27 06:49:14
Local clock offset: -1.079 ms
Remote clock offset: -0.522 ms

# Below is generated by plot.py at 2019-03-27 08:52:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.71 Mbit/s
95th percentile per-packet one-way delay: 54.073 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 92.71 Mbit/s
95th percentile per-packet one-way delay: 54.073 ms
Loss rate: 0.21%
```

Run 1: Report of Verus — Data Link

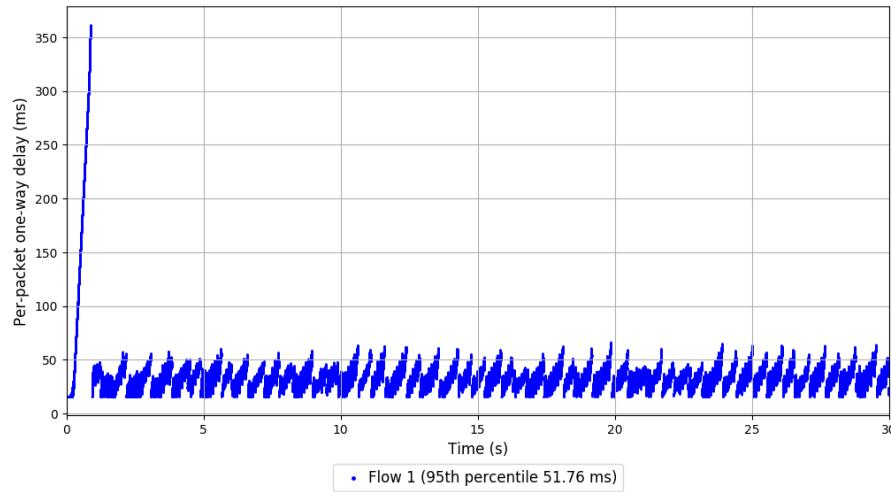
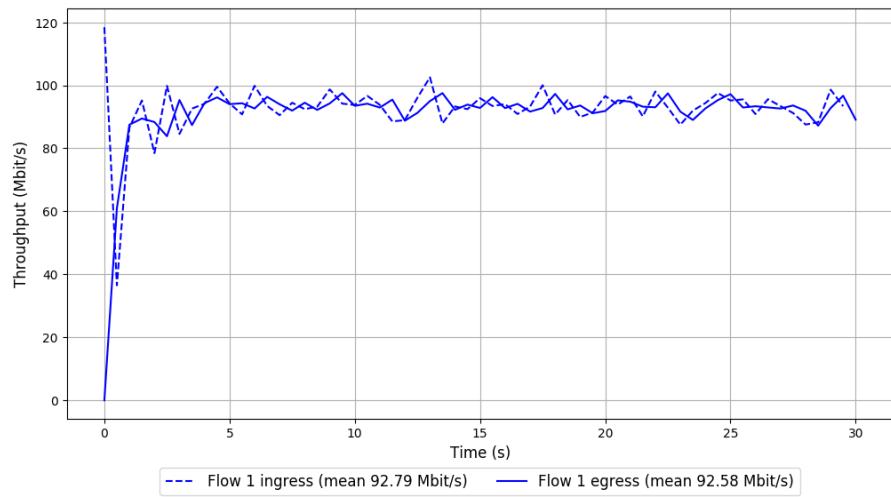


Run 2: Statistics of Verus

```
Start at: 2019-03-27 07:14:54
End at: 2019-03-27 07:15:24
Local clock offset: -0.94 ms
Remote clock offset: -0.581 ms

# Below is generated by plot.py at 2019-03-27 08:52:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.58 Mbit/s
95th percentile per-packet one-way delay: 51.763 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 92.58 Mbit/s
95th percentile per-packet one-way delay: 51.763 ms
Loss rate: 0.30%
```

## Run 2: Report of Verus — Data Link

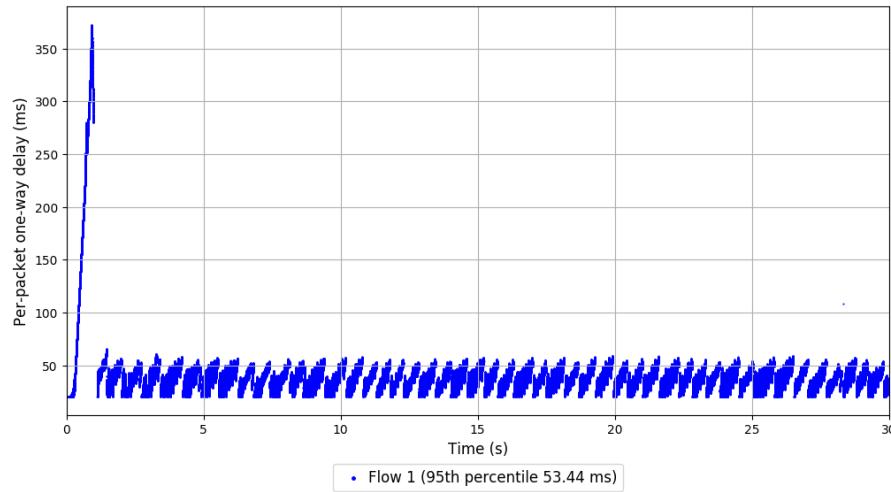
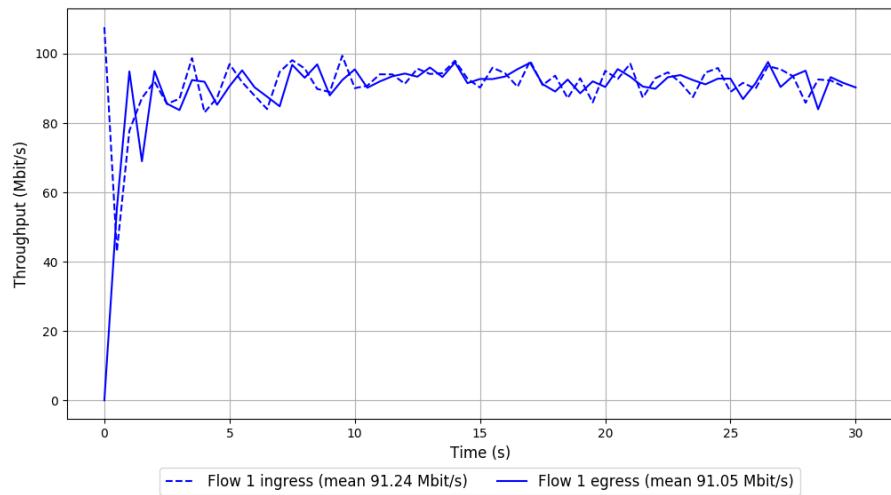


Run 3: Statistics of Verus

```
Start at: 2019-03-27 07:40:04
End at: 2019-03-27 07:40:34
Local clock offset: -1.099 ms
Remote clock offset: -0.96 ms

# Below is generated by plot.py at 2019-03-27 08:52:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.05 Mbit/s
95th percentile per-packet one-way delay: 53.441 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 91.05 Mbit/s
95th percentile per-packet one-way delay: 53.441 ms
Loss rate: 0.31%
```

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

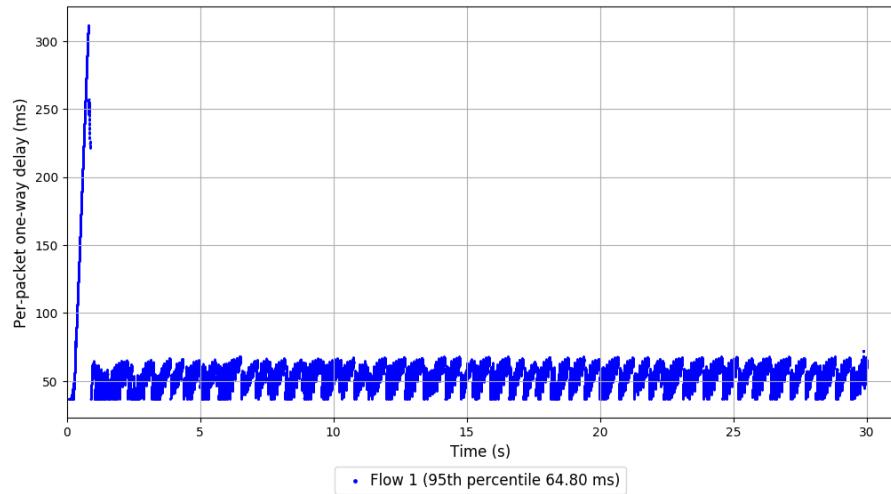
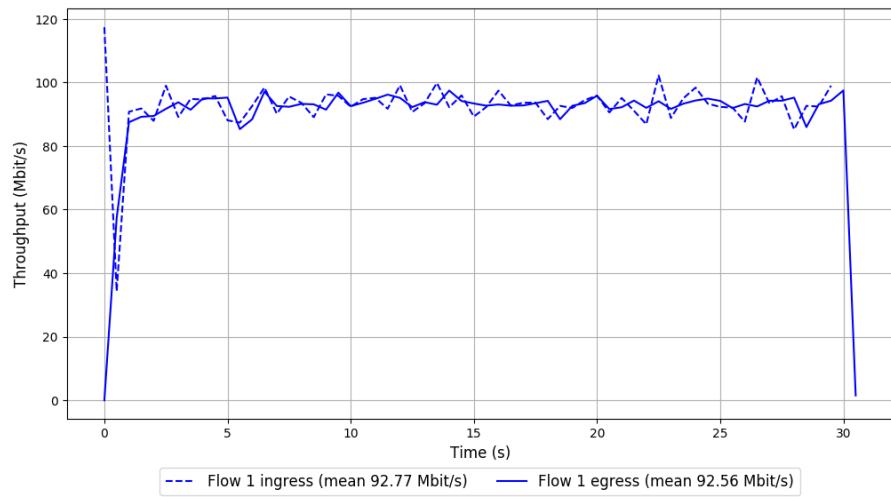


Run 4: Statistics of Verus

```
Start at: 2019-03-27 08:04:42
End at: 2019-03-27 08:05:12
Local clock offset: -0.398 ms
Remote clock offset: -16.167 ms

# Below is generated by plot.py at 2019-03-27 08:52:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.56 Mbit/s
95th percentile per-packet one-way delay: 64.799 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 92.56 Mbit/s
95th percentile per-packet one-way delay: 64.799 ms
Loss rate: 0.27%
```

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

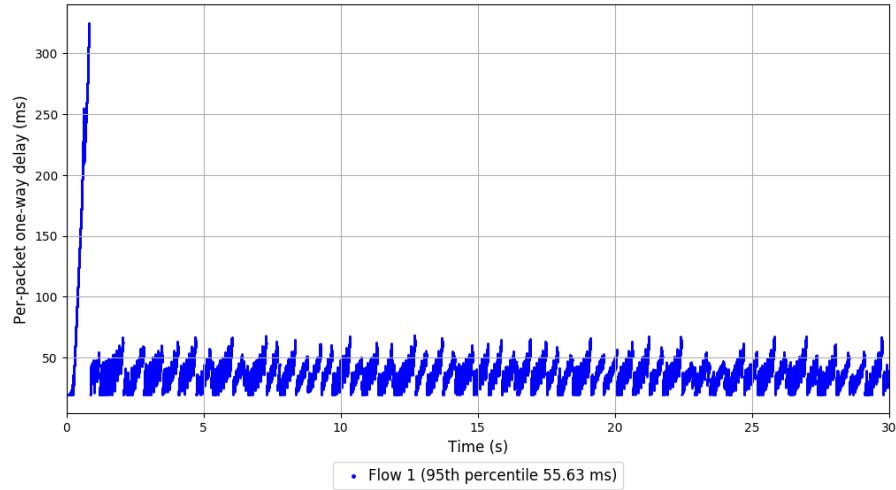
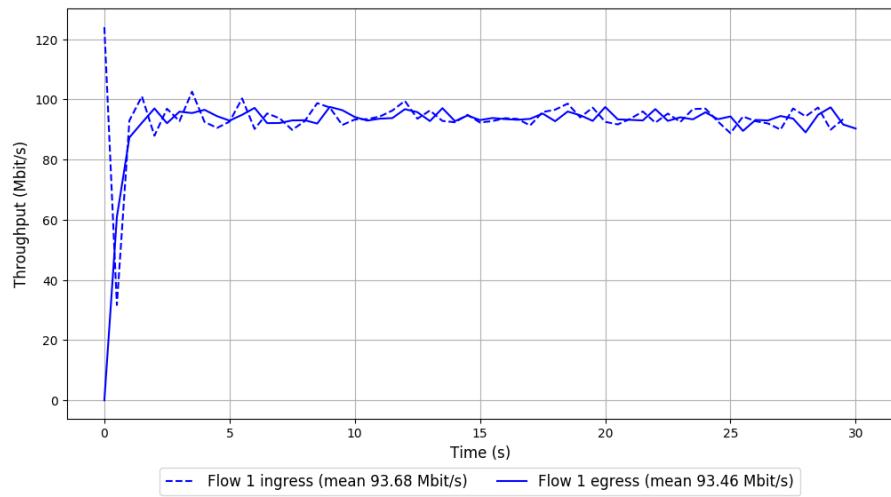


Run 5: Statistics of Verus

```
Start at: 2019-03-27 08:29:30
End at: 2019-03-27 08:30:00
Local clock offset: -1.79 ms
Remote clock offset: 0.547 ms

# Below is generated by plot.py at 2019-03-27 08:52:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 55.633 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 55.633 ms
Loss rate: 0.30%
```

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

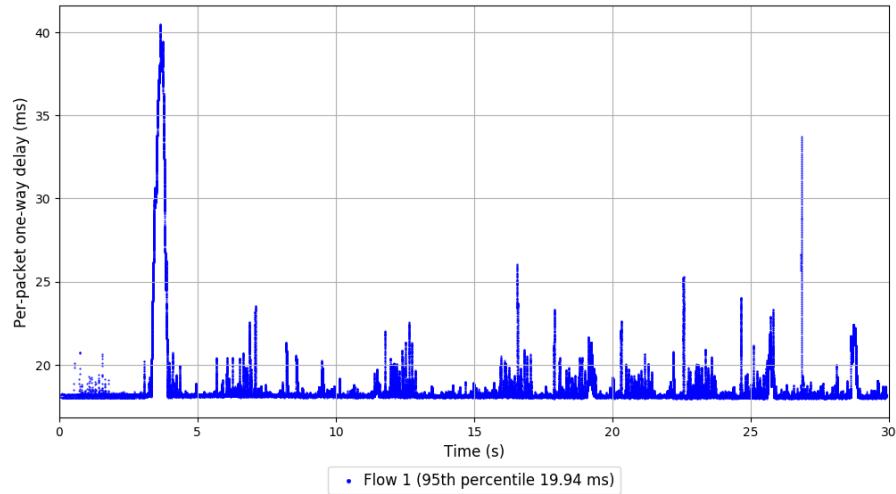
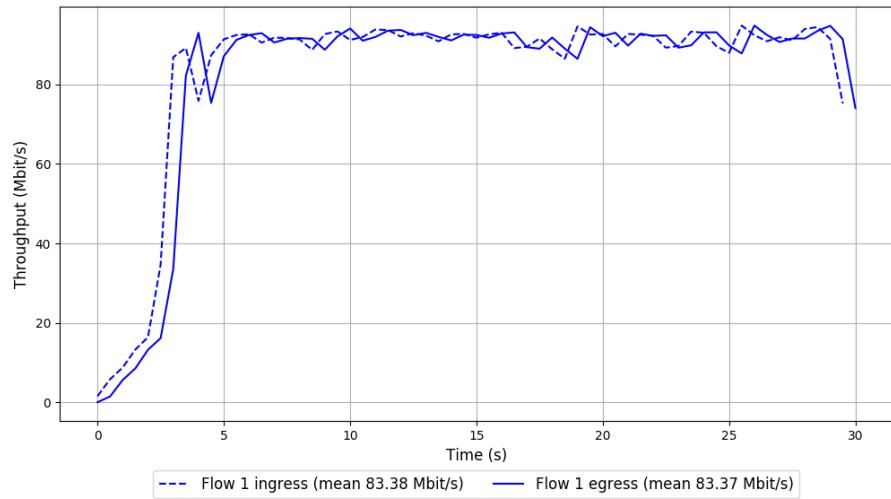


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-03-27 06:47:25
End at: 2019-03-27 06:47:55
Local clock offset: 0.334 ms
Remote clock offset: 0.843 ms

# Below is generated by plot.py at 2019-03-27 08:52:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.37 Mbit/s
95th percentile per-packet one-way delay: 19.940 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 83.37 Mbit/s
95th percentile per-packet one-way delay: 19.940 ms
Loss rate: 0.10%
```

Run 1: Report of PCC-Vivace — Data Link

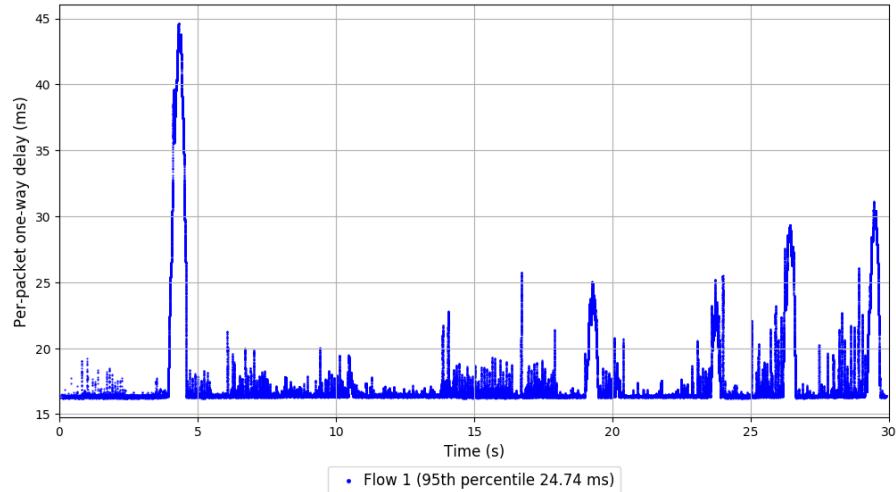
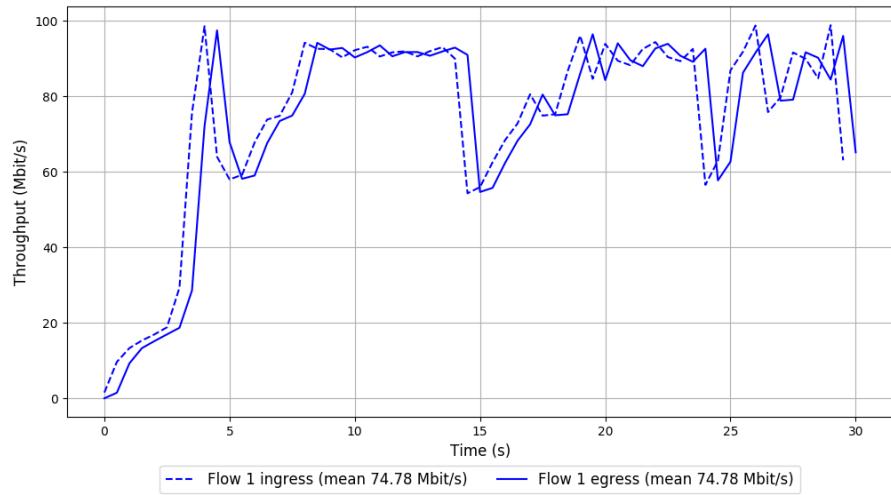


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-27 07:13:25
End at: 2019-03-27 07:13:55
Local clock offset: -0.678 ms
Remote clock offset: -1.273 ms

# Below is generated by plot.py at 2019-03-27 08:52:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.78 Mbit/s
95th percentile per-packet one-way delay: 24.744 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 74.78 Mbit/s
95th percentile per-packet one-way delay: 24.744 ms
Loss rate: 0.09%
```

Run 2: Report of PCC-Vivace — Data Link

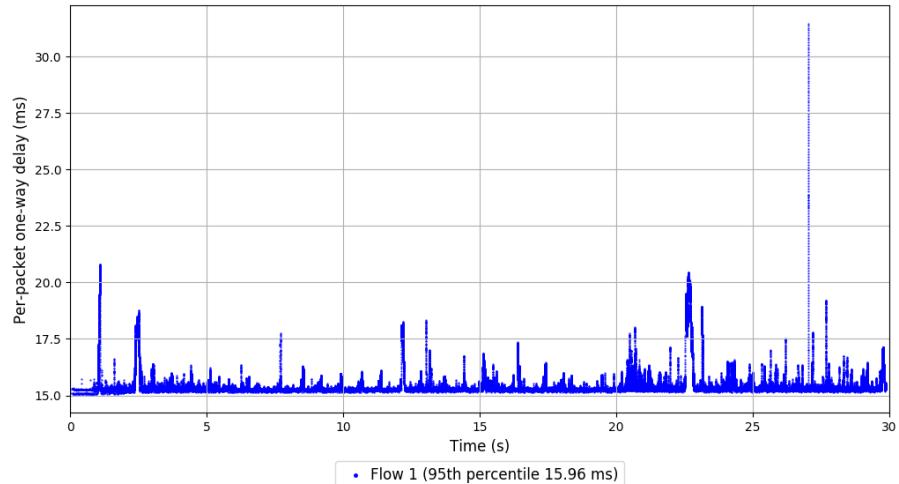
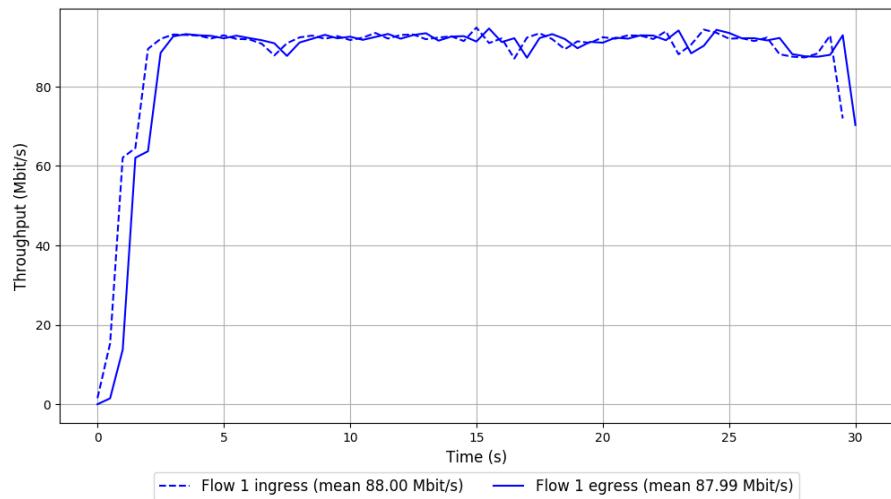


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-27 07:38:52
End at: 2019-03-27 07:39:22
Local clock offset: -1.367 ms
Remote clock offset: 0.576 ms

# Below is generated by plot.py at 2019-03-27 08:53:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.99 Mbit/s
95th percentile per-packet one-way delay: 15.965 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 87.99 Mbit/s
95th percentile per-packet one-way delay: 15.965 ms
Loss rate: 0.08%
```

Run 3: Report of PCC-Vivace — Data Link

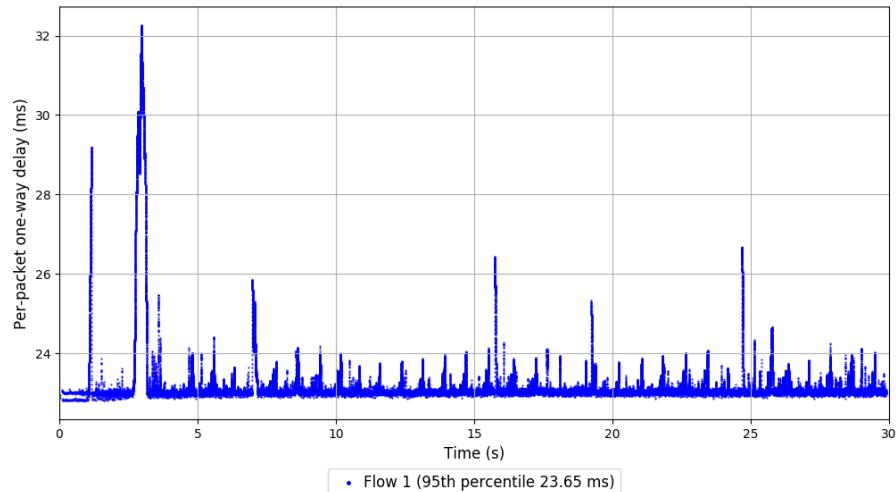
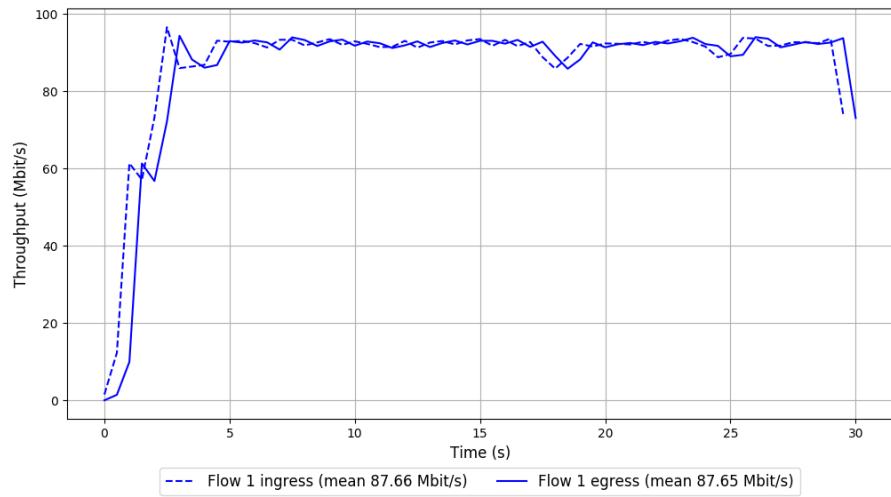


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-27 08:03:29
End at: 2019-03-27 08:03:59
Local clock offset: 0.216 ms
Remote clock offset: 1.389 ms

# Below is generated by plot.py at 2019-03-27 08:53:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.65 Mbit/s
95th percentile per-packet one-way delay: 23.647 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 87.65 Mbit/s
95th percentile per-packet one-way delay: 23.647 ms
Loss rate: 0.10%
```

Run 4: Report of PCC-Vivace — Data Link

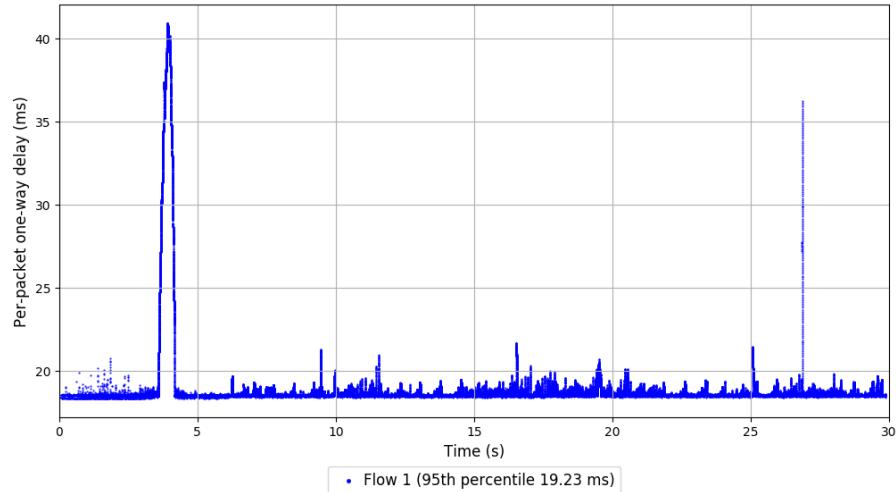
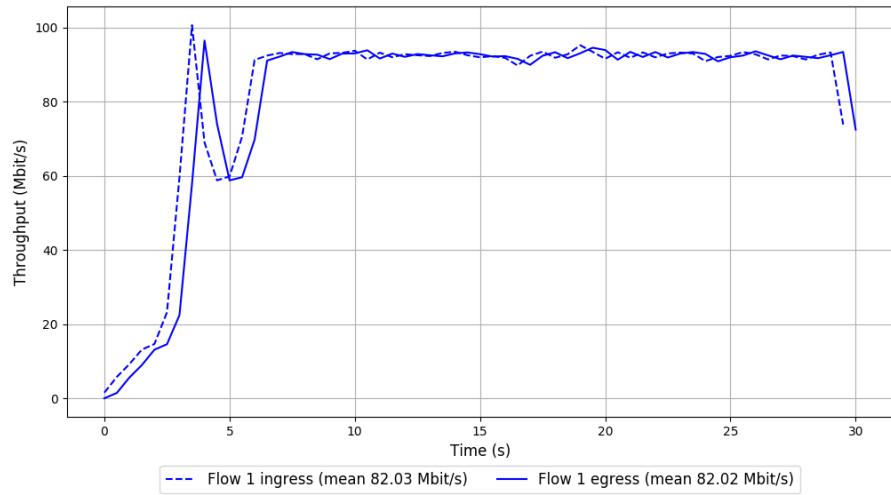


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-27 08:28:19
End at: 2019-03-27 08:28:49
Local clock offset: -1.857 ms
Remote clock offset: 1.463 ms

# Below is generated by plot.py at 2019-03-27 08:53:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.02 Mbit/s
95th percentile per-packet one-way delay: 19.226 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 82.02 Mbit/s
95th percentile per-packet one-way delay: 19.226 ms
Loss rate: 0.10%
```

Run 5: Report of PCC-Vivace — Data Link

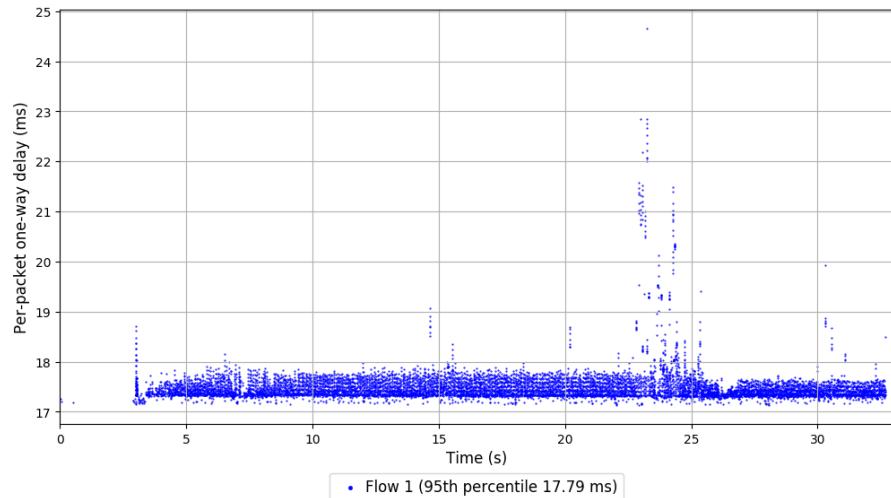
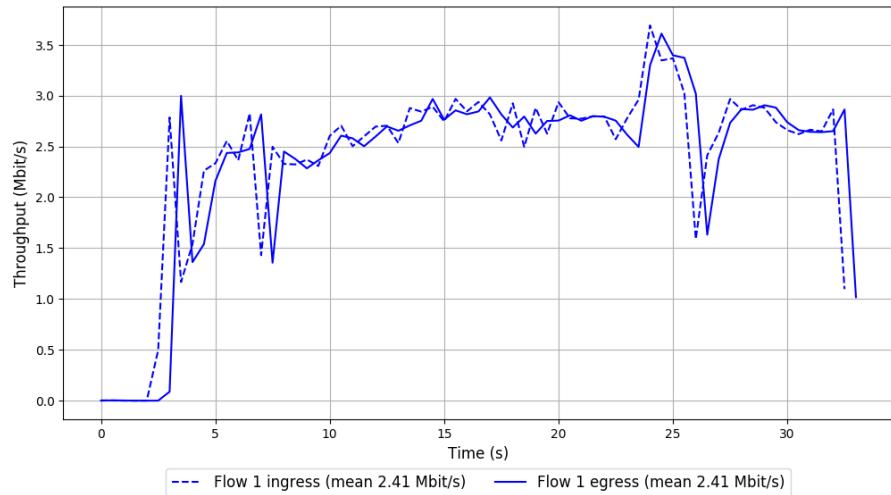


```
Run 1: Statistics of WebRTC media

Start at: 2019-03-27 06:52:31
End at: 2019-03-27 06:53:01
Local clock offset: -0.268 ms
Remote clock offset: 0.517 ms

# Below is generated by plot.py at 2019-03-27 08:53:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 17.794 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 17.794 ms
Loss rate: 0.11%
```

Run 1: Report of WebRTC media — Data Link

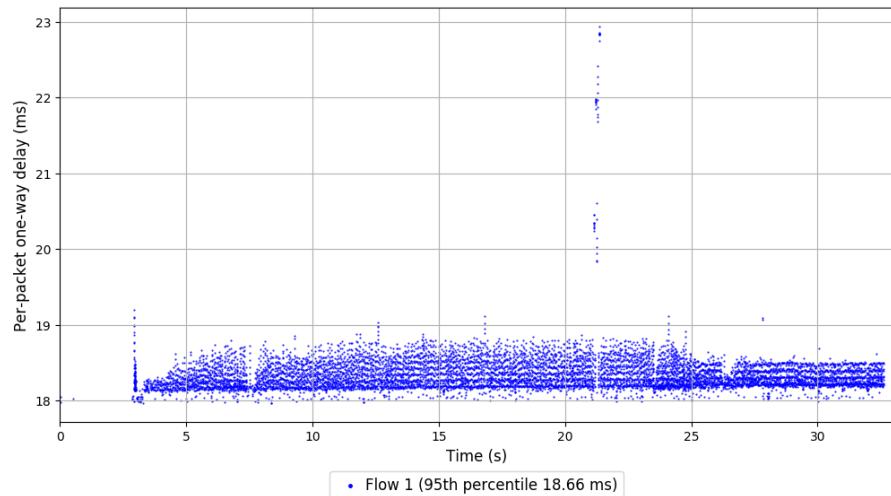
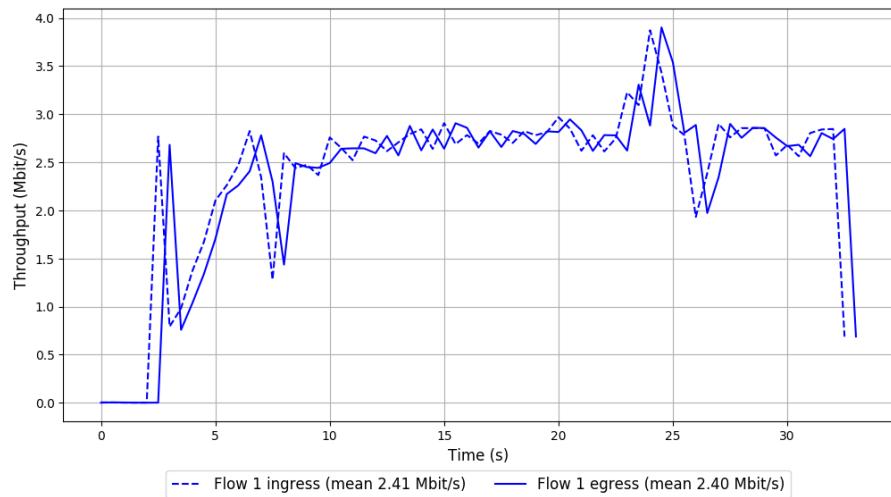


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-27 07:19:09
End at: 2019-03-27 07:19:39
Local clock offset: 0.375 ms
Remote clock offset: -1.588 ms

# Below is generated by plot.py at 2019-03-27 08:53:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 18.659 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 18.659 ms
Loss rate: 0.12%
```

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

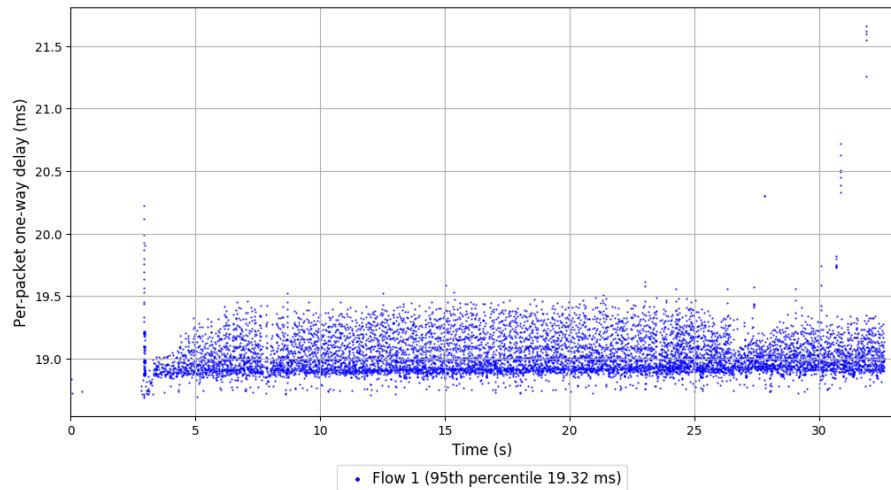
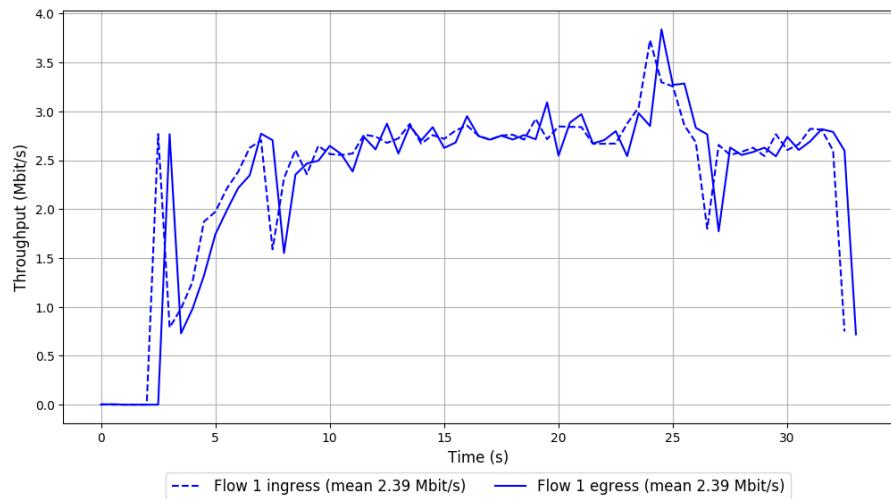


Run 3: Statistics of WebRTC media

```
Start at: 2019-03-27 07:43:47
End at: 2019-03-27 07:44:17
Local clock offset: 1.224 ms
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2019-03-27 08:53:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 19.325 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 19.325 ms
Loss rate: 0.10%
```

### Run 3: Report of WebRTC media — Data Link

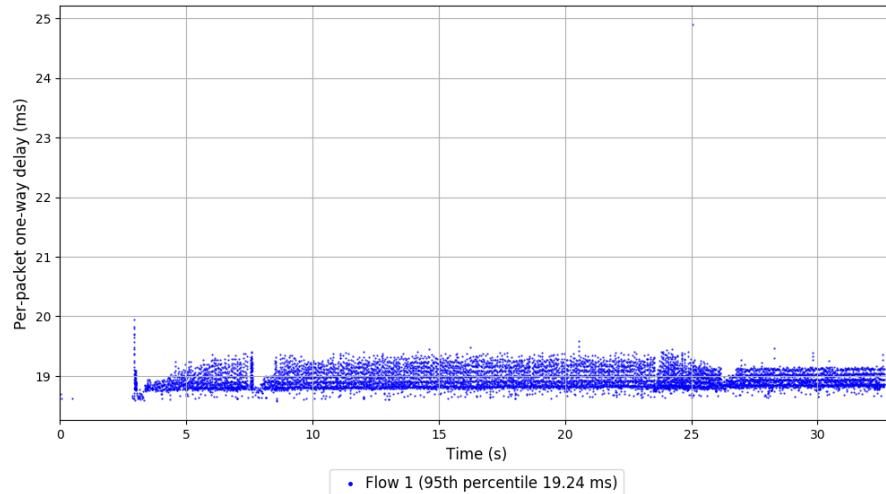
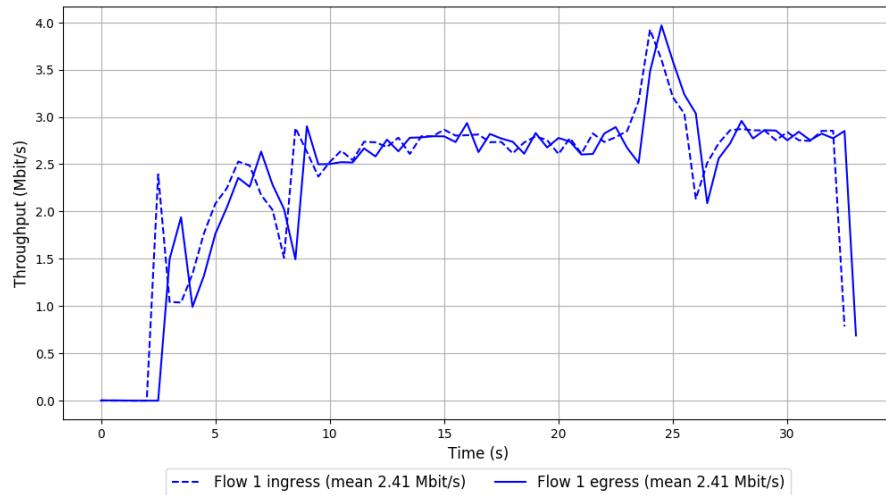


Run 4: Statistics of WebRTC media

```
Start at: 2019-03-27 08:08:16
End at: 2019-03-27 08:08:46
Local clock offset: -1.322 ms
Remote clock offset: 0.921 ms

# Below is generated by plot.py at 2019-03-27 08:53:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 19.243 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 19.243 ms
Loss rate: 0.12%
```

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



Run 5: Statistics of WebRTC media

```
Start at: 2019-03-27 08:33:12
End at: 2019-03-27 08:33:42
Local clock offset: -2.204 ms
Remote clock offset: 1.841 ms

# Below is generated by plot.py at 2019-03-27 08:53:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 21.813 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 21.813 ms
Loss rate: 0.07%
```

Run 5: Report of WebRTC media — Data Link

