

## Pantheon Report

Generated at 2019-01-18 22:24:45 (UTC).  
Data path: GCE Iowa on `ens4` (*remote*) → GCE Sydney on `ens4` (*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 `time.google.com` and have been applied to correct the timestamps in logs.

System info:

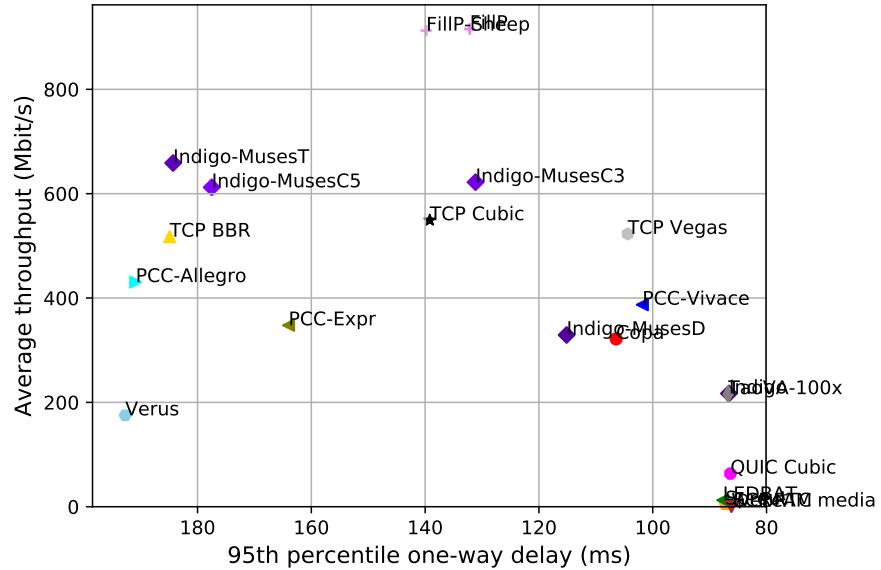
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

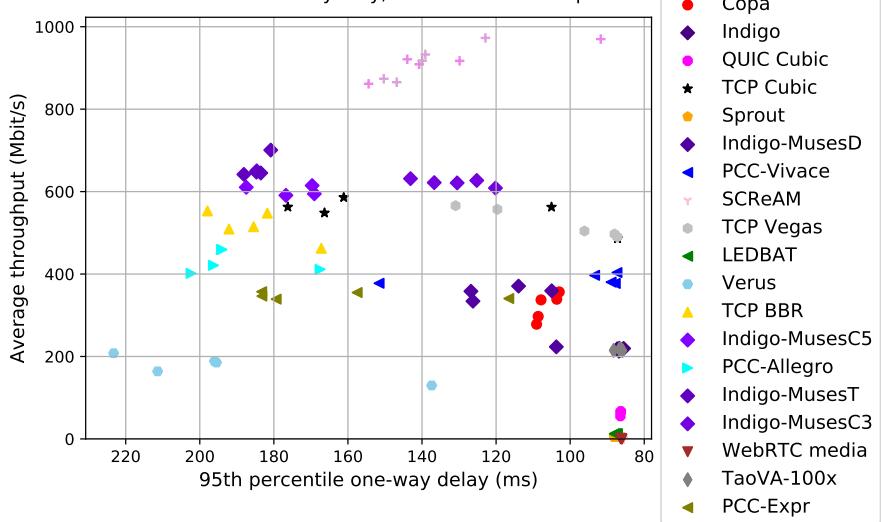
```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefef166e1afe2170
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE Iowa to GCE Sydney, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



test from GCE Iowa to GCE Sydney, 5 runs of 30s each per scheme



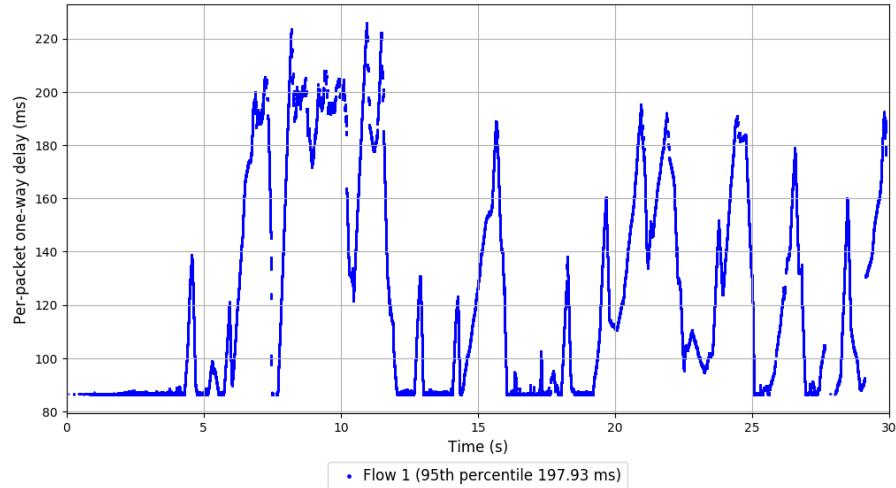
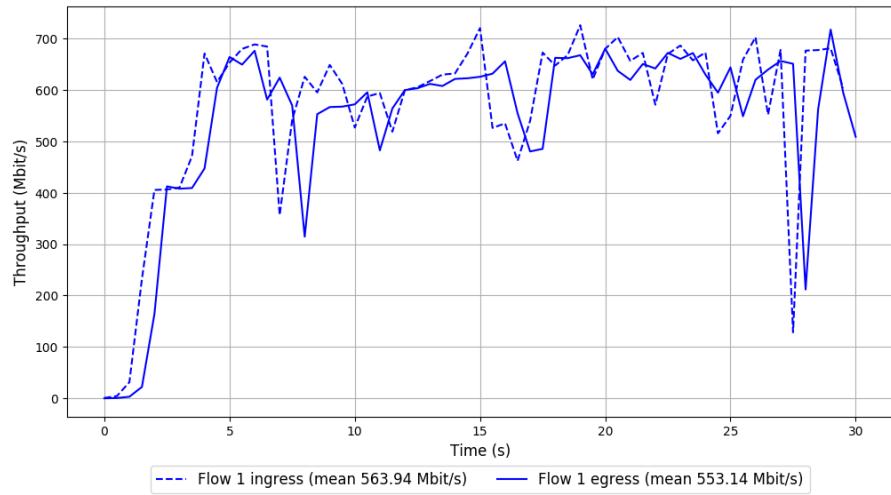
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	517.55	184.90	2.06
Copa	5	321.65	106.43	0.49
TCP Cubic	5	549.17	139.19	0.69
FillP	5	915.72	132.15	1.96
FillP-Sheep	5	912.45	139.82	1.79
Indigo	5	217.03	86.61	0.65
Indigo-MusesC3	5	622.00	131.14	0.73
Indigo-MusesC5	5	612.22	177.51	1.65
Indigo-MusesD	5	329.17	115.14	1.40
Indigo-MusesT	4	658.74	184.29	5.04
LEDBAT	5	12.53	87.69	1.15
PCC-Allegro	5	430.56	190.86	2.54
PCC-Expr	5	347.70	164.01	2.72
QUIC Cubic	4	63.47	86.36	0.89
SCReAM	5	0.22	85.88	0.61
Sprout	5	4.29	87.28	0.62
TaoVA-100x	5	215.75	86.74	0.58
TCP Vegas	5	522.84	104.40	0.54
Verus	5	175.14	192.71	2.87
PCC-Vivace	5	387.11	101.83	0.65
WebRTC media	5	0.36	86.19	0.22

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-18 17:53:32
End at: 2019-01-18 17:54:02
Local clock offset: 15.024 ms
Remote clock offset: 13.381 ms

# Below is generated by plot.py at 2019-01-18 20:35:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 553.14 Mbit/s
95th percentile per-packet one-way delay: 197.927 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 553.14 Mbit/s
95th percentile per-packet one-way delay: 197.927 ms
Loss rate: 2.48%
```

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

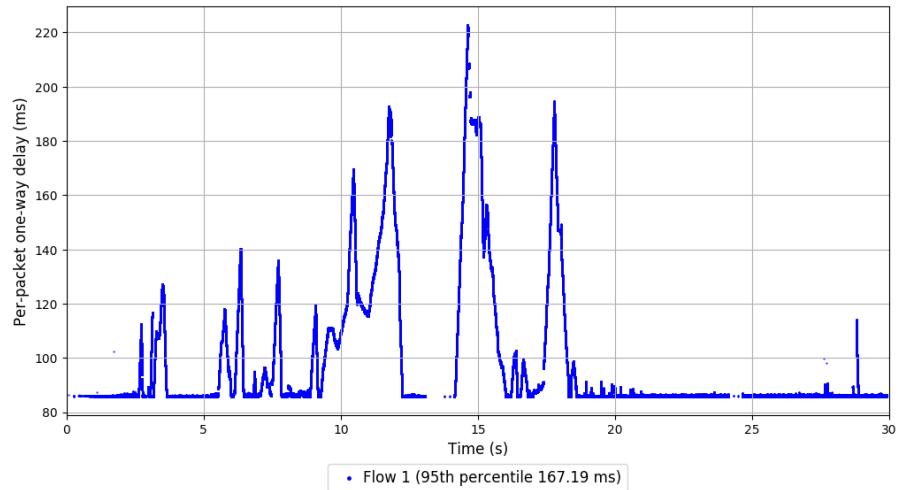
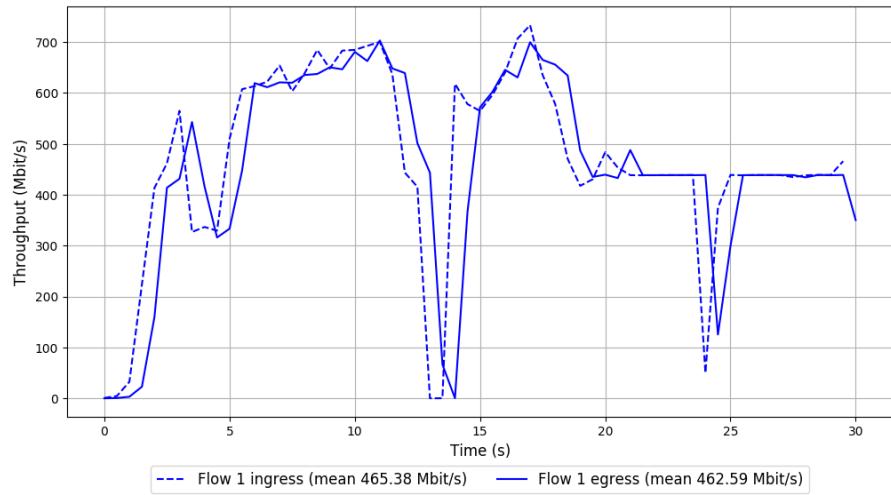


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-18 18:25:30
End at: 2019-01-18 18:26:00
Local clock offset: 28.737 ms
Remote clock offset: 25.785 ms

# Below is generated by plot.py at 2019-01-18 20:35:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 462.59 Mbit/s
95th percentile per-packet one-way delay: 167.195 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 462.59 Mbit/s
95th percentile per-packet one-way delay: 167.195 ms
Loss rate: 1.18%
```

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

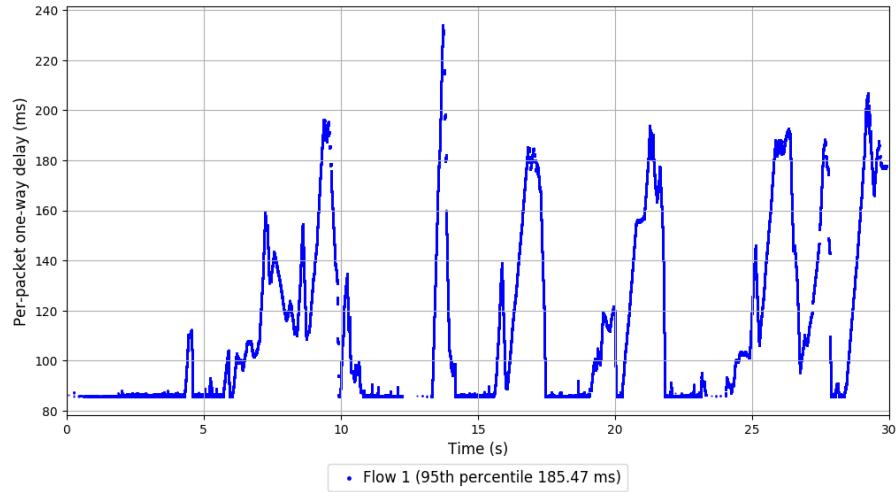
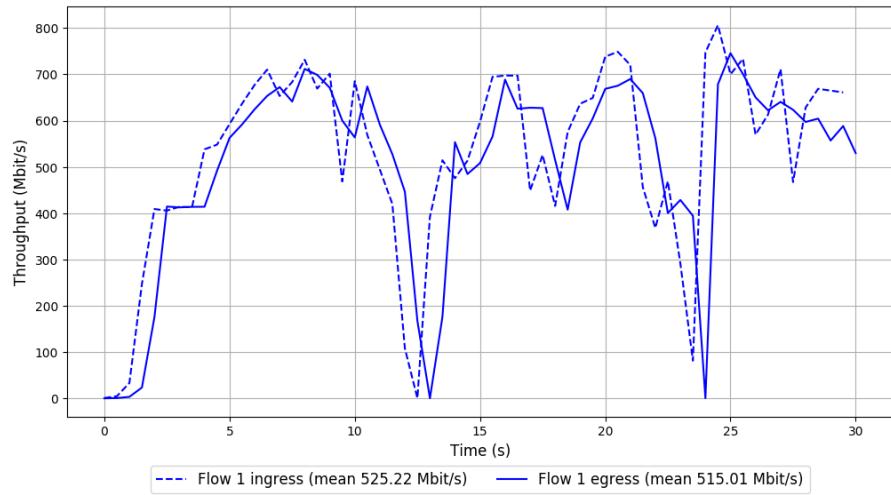


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-18 18:57:43
End at: 2019-01-18 18:58:13
Local clock offset: 16.219 ms
Remote clock offset: 14.47 ms

# Below is generated by plot.py at 2019-01-18 20:35:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 515.01 Mbit/s
95th percentile per-packet one-way delay: 185.472 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 515.01 Mbit/s
95th percentile per-packet one-way delay: 185.472 ms
Loss rate: 2.51%
```

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

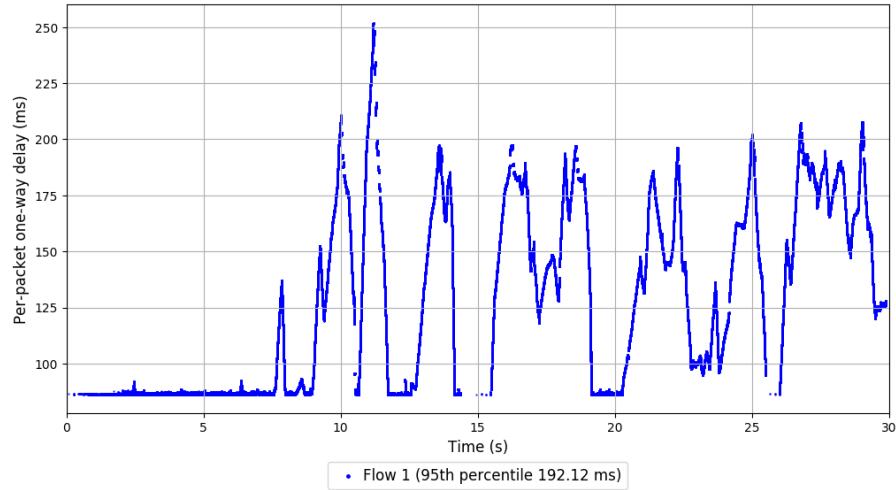
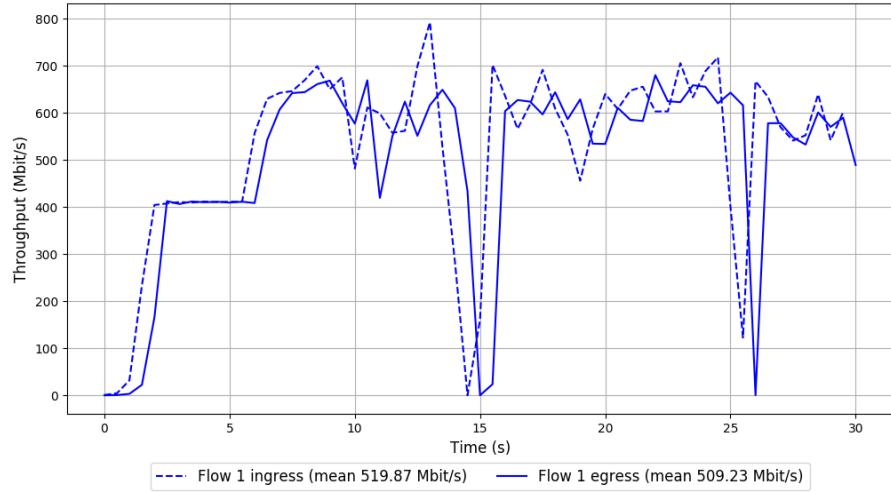


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-18 19:30:07
End at: 2019-01-18 19:30:37
Local clock offset: 8.005 ms
Remote clock offset: 6.975 ms

# Below is generated by plot.py at 2019-01-18 20:35:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 509.23 Mbit/s
95th percentile per-packet one-way delay: 192.124 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 509.23 Mbit/s
95th percentile per-packet one-way delay: 192.124 ms
Loss rate: 2.61%
```

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

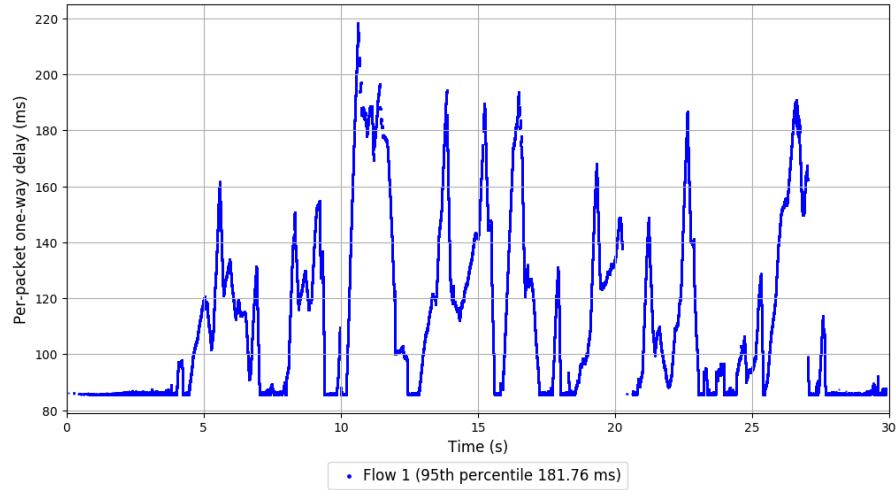
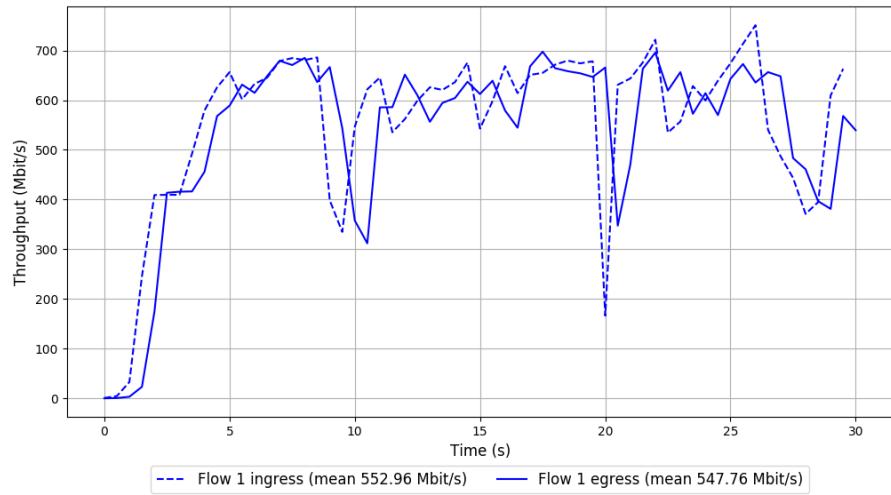


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-18 20:02:29
End at: 2019-01-18 20:02:59
Local clock offset: 2.477 ms
Remote clock offset: 3.371 ms

# Below is generated by plot.py at 2019-01-18 20:35:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 547.76 Mbit/s
95th percentile per-packet one-way delay: 181.759 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 547.76 Mbit/s
95th percentile per-packet one-way delay: 181.759 ms
Loss rate: 1.51%
```

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

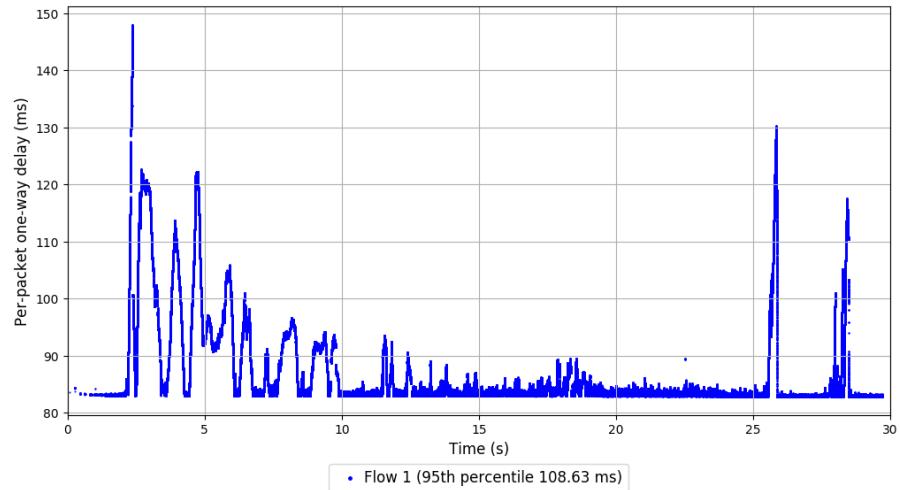
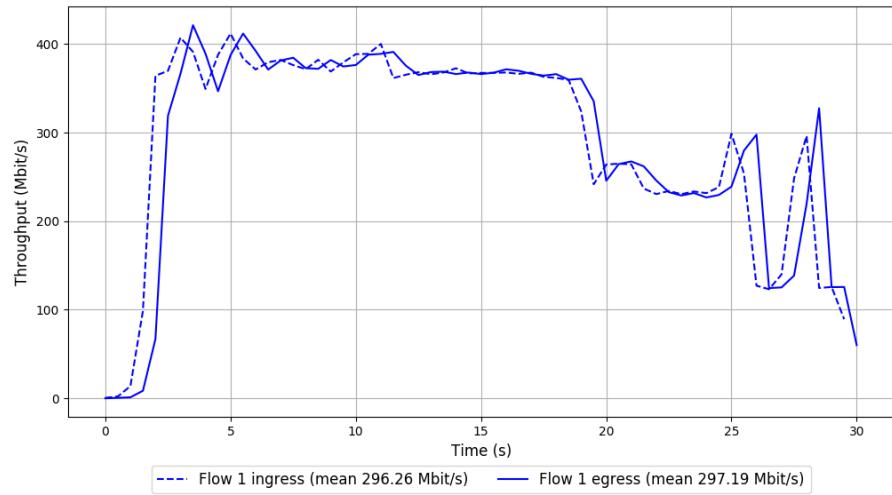


Run 1: Statistics of Copa

```
Start at: 2019-01-18 17:32:55
End at: 2019-01-18 17:33:25
Local clock offset: 4.639 ms
Remote clock offset: 6.537 ms

# Below is generated by plot.py at 2019-01-18 20:35:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.19 Mbit/s
95th percentile per-packet one-way delay: 108.633 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 297.19 Mbit/s
95th percentile per-packet one-way delay: 108.633 ms
Loss rate: 0.27%
```

## Run 1: Report of Copa — Data Link

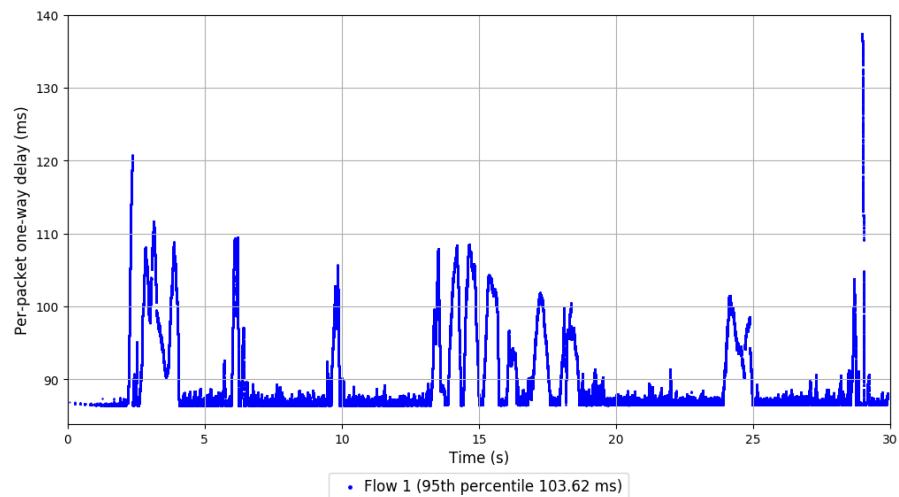
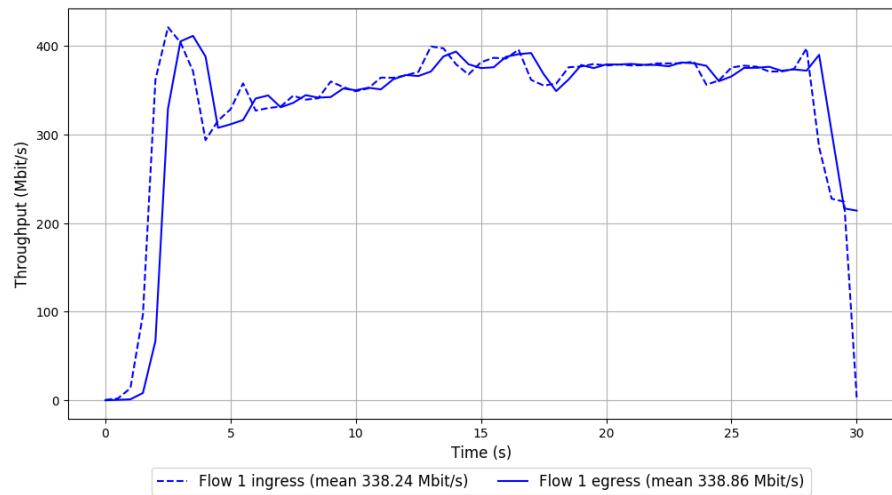


Run 2: Statistics of Copa

```
Start at: 2019-01-18 18:04:20
End at: 2019-01-18 18:04:50
Local clock offset: 28.385 ms
Remote clock offset: 24.936 ms

# Below is generated by plot.py at 2019-01-18 20:36:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.86 Mbit/s
95th percentile per-packet one-way delay: 103.619 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 338.86 Mbit/s
95th percentile per-packet one-way delay: 103.619 ms
Loss rate: 0.39%
```

Run 2: Report of Copa — Data Link

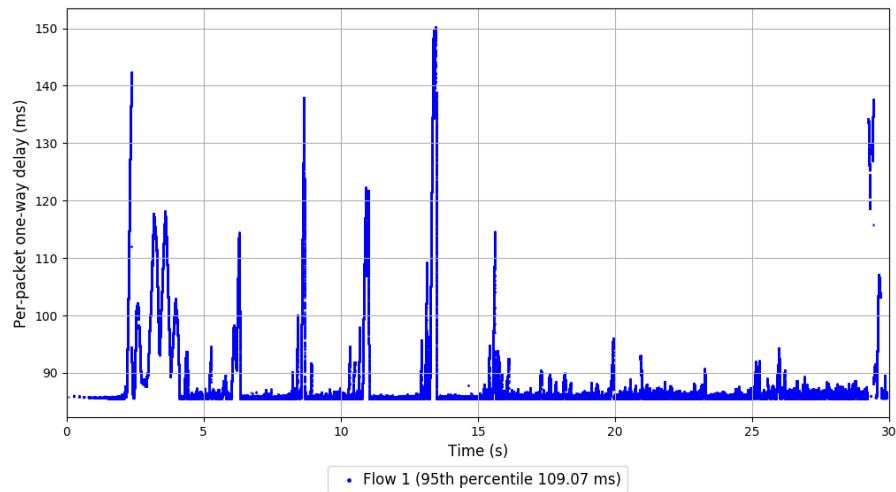
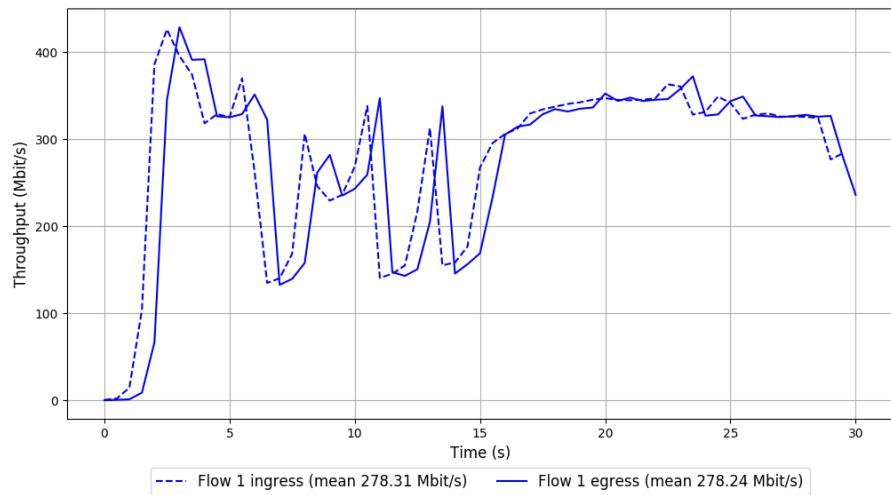


Run 3: Statistics of Copa

```
Start at: 2019-01-18 18:36:06
End at: 2019-01-18 18:36:36
Local clock offset: 40.318 ms
Remote clock offset: 35.959 ms

# Below is generated by plot.py at 2019-01-18 20:36:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.24 Mbit/s
95th percentile per-packet one-way delay: 109.067 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 278.24 Mbit/s
95th percentile per-packet one-way delay: 109.067 ms
Loss rate: 0.60%
```

### Run 3: Report of Copa — Data Link

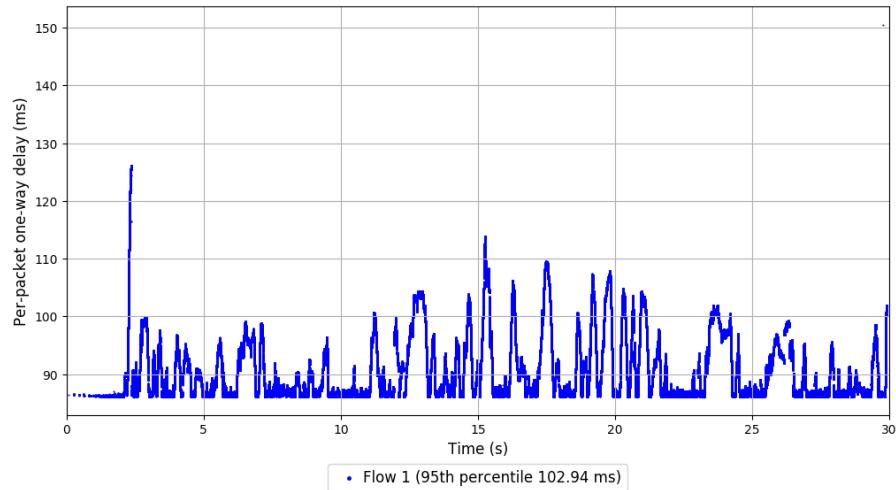
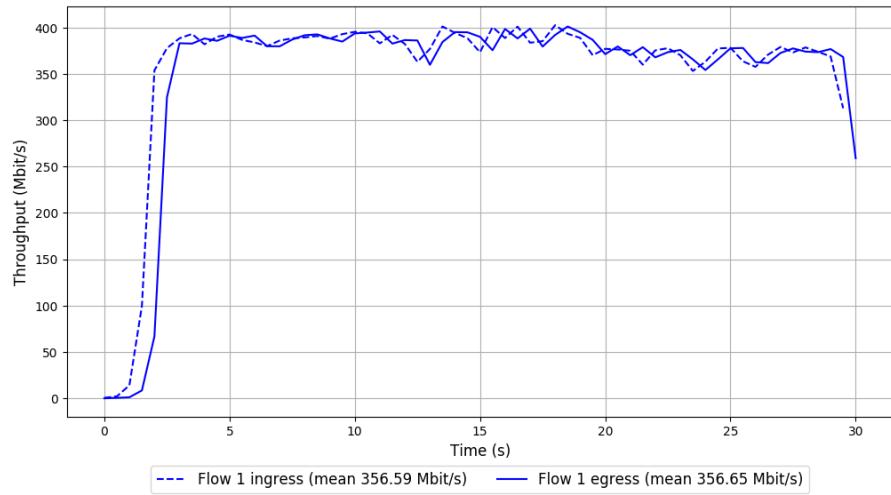


Run 4: Statistics of Copa

```
Start at: 2019-01-18 19:08:36
End at: 2019-01-18 19:09:06
Local clock offset: 19.605 ms
Remote clock offset: 17.664 ms

# Below is generated by plot.py at 2019-01-18 20:46:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.65 Mbit/s
95th percentile per-packet one-way delay: 102.945 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 356.65 Mbit/s
95th percentile per-packet one-way delay: 102.945 ms
Loss rate: 0.56%
```

## Run 4: Report of Copa — Data Link

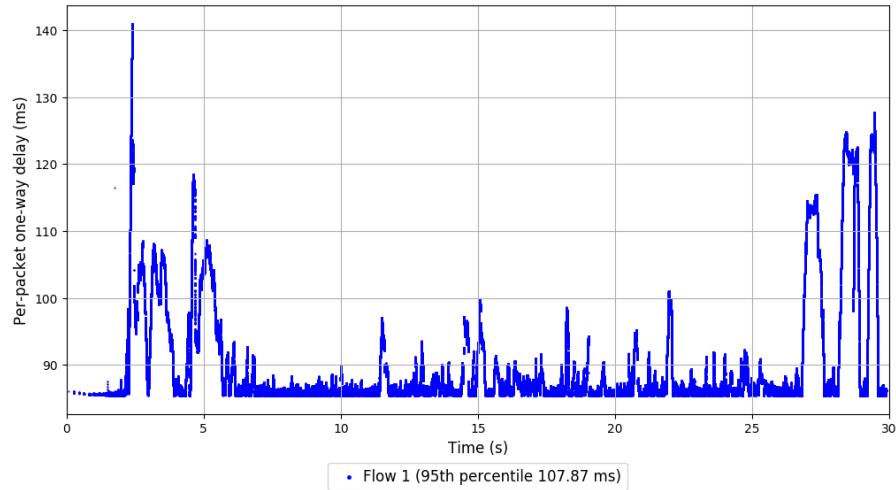
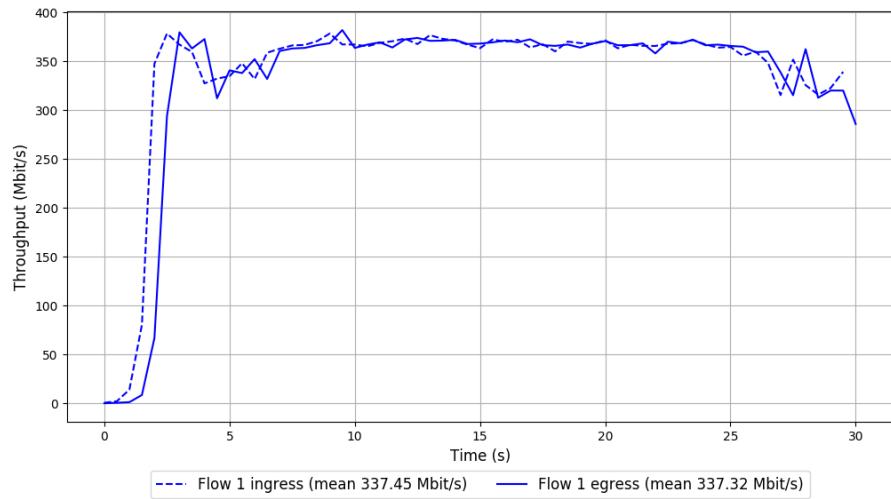


Run 5: Statistics of Copa

```
Start at: 2019-01-18 19:40:44
End at: 2019-01-18 19:41:14
Local clock offset: 8.999 ms
Remote clock offset: 8.084 ms

# Below is generated by plot.py at 2019-01-18 20:46:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.32 Mbit/s
95th percentile per-packet one-way delay: 107.869 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 337.32 Mbit/s
95th percentile per-packet one-way delay: 107.869 ms
Loss rate: 0.61%
```

### Run 5: Report of Copa — Data Link

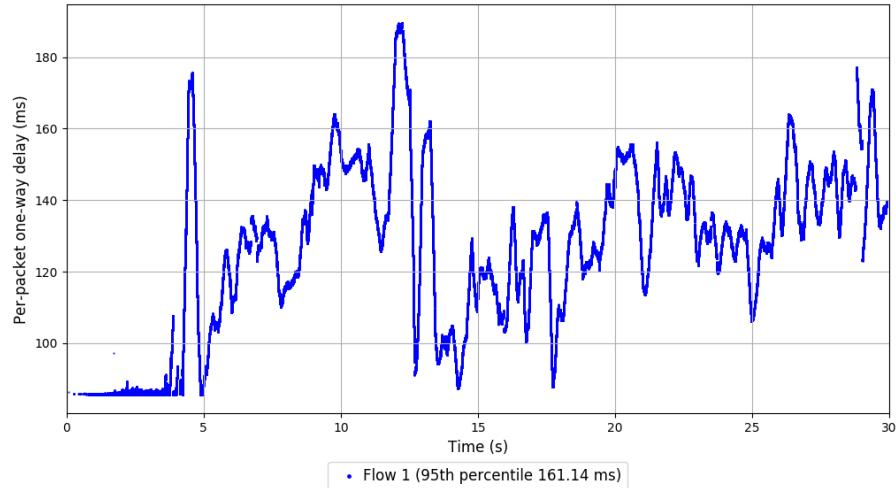
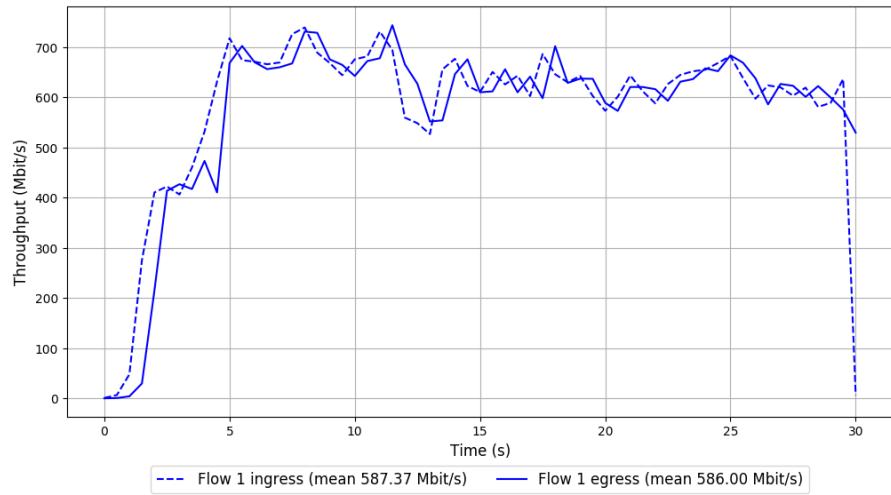


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-18 17:59:45
End at: 2019-01-18 18:00:15
Local clock offset: 22.233 ms
Remote clock offset: 19.854 ms

# Below is generated by plot.py at 2019-01-18 20:46:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 586.00 Mbit/s
95th percentile per-packet one-way delay: 161.141 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 586.00 Mbit/s
95th percentile per-packet one-way delay: 161.141 ms
Loss rate: 0.81%
```

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

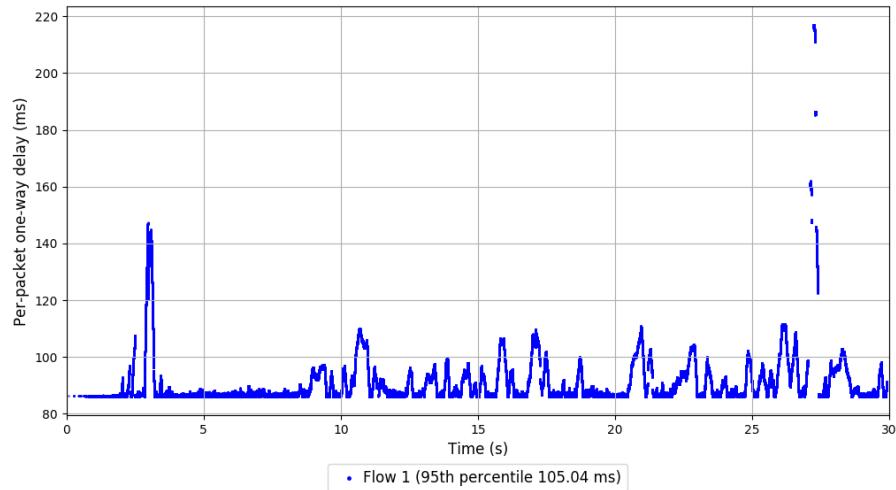
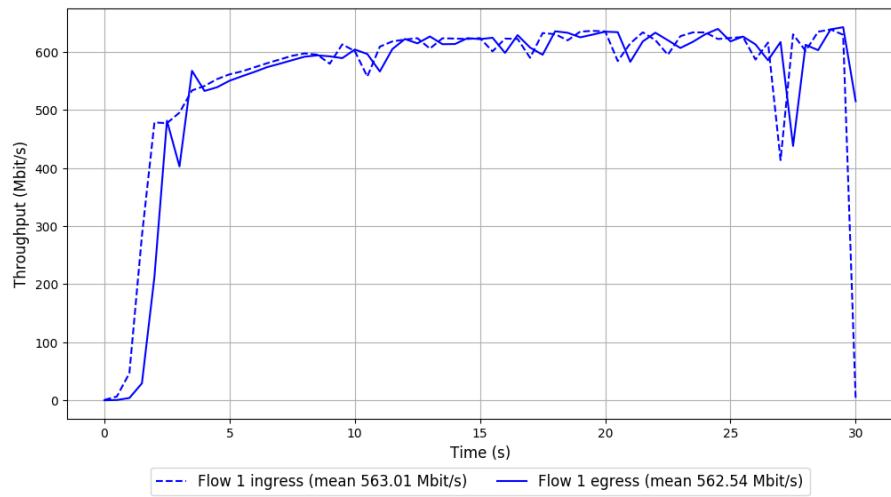


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-18 18:31:34
End at: 2019-01-18 18:32:04
Local clock offset: 35.101 ms
Remote clock offset: 31.297 ms

# Below is generated by plot.py at 2019-01-18 20:46:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 562.54 Mbit/s
95th percentile per-packet one-way delay: 105.042 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 562.54 Mbit/s
95th percentile per-packet one-way delay: 105.042 ms
Loss rate: 0.66%
```

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

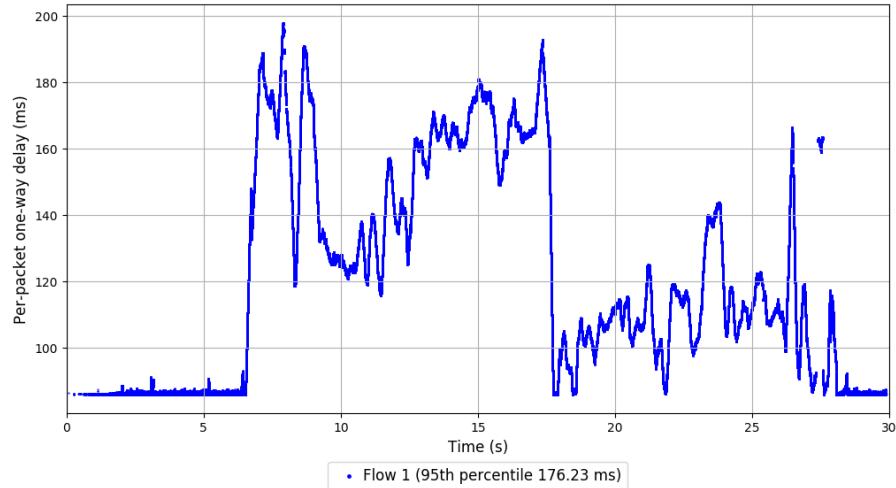
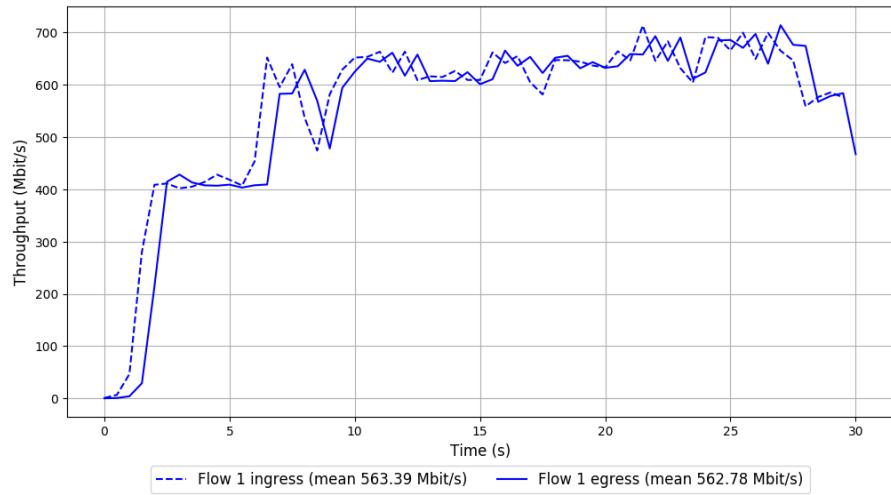


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-18 19:04:00
End at: 2019-01-18 19:04:30
Local clock offset: 17.777 ms
Remote clock offset: 15.94 ms

# Below is generated by plot.py at 2019-01-18 20:46:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 562.78 Mbit/s
95th percentile per-packet one-way delay: 176.230 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 562.78 Mbit/s
95th percentile per-packet one-way delay: 176.230 ms
Loss rate: 0.68%
```

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

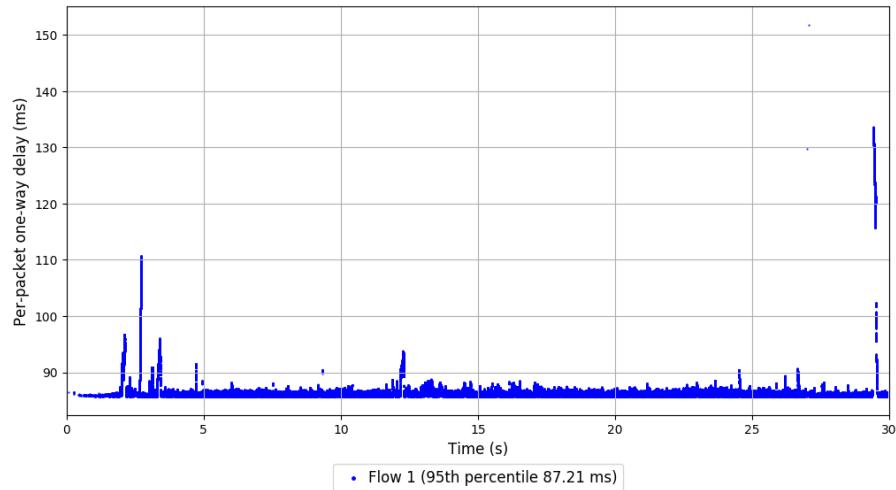
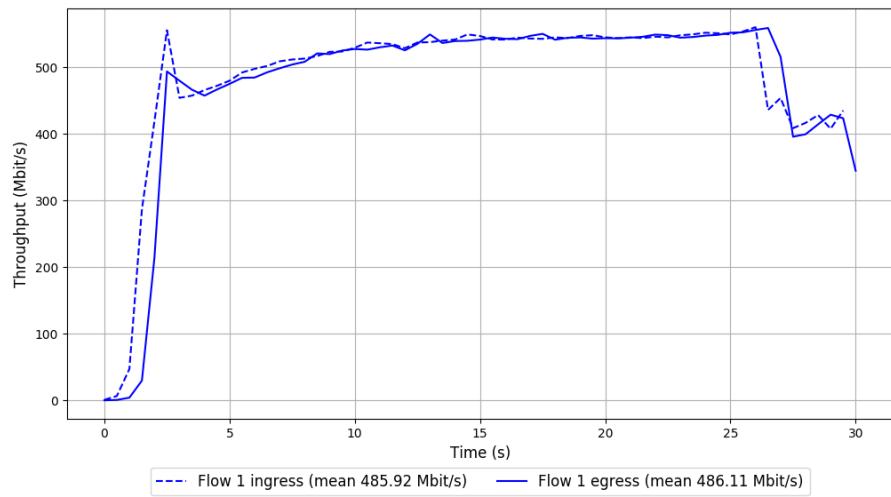


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-18 19:36:15
End at: 2019-01-18 19:36:45
Local clock offset: 8.41 ms
Remote clock offset: 7.368 ms

# Below is generated by plot.py at 2019-01-18 20:46:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 486.11 Mbit/s
95th percentile per-packet one-way delay: 87.213 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 486.11 Mbit/s
95th percentile per-packet one-way delay: 87.213 ms
Loss rate: 0.54%
```

Run 4: Report of TCP Cubic — Data Link

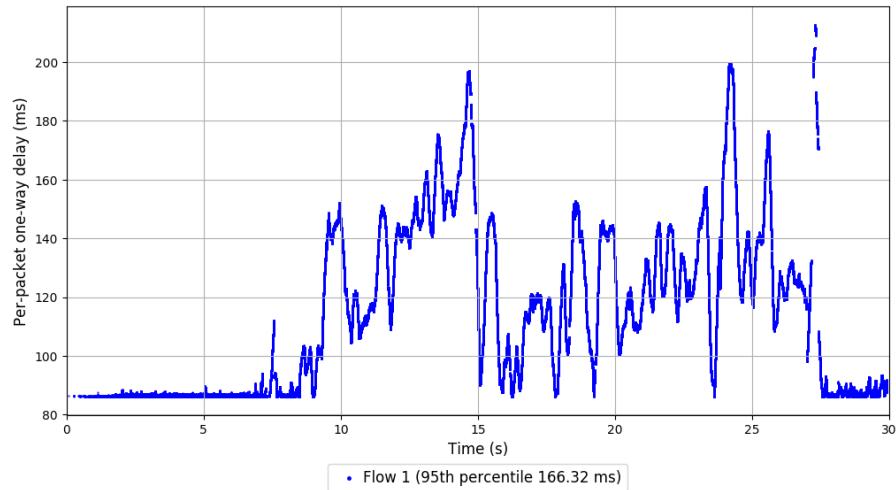
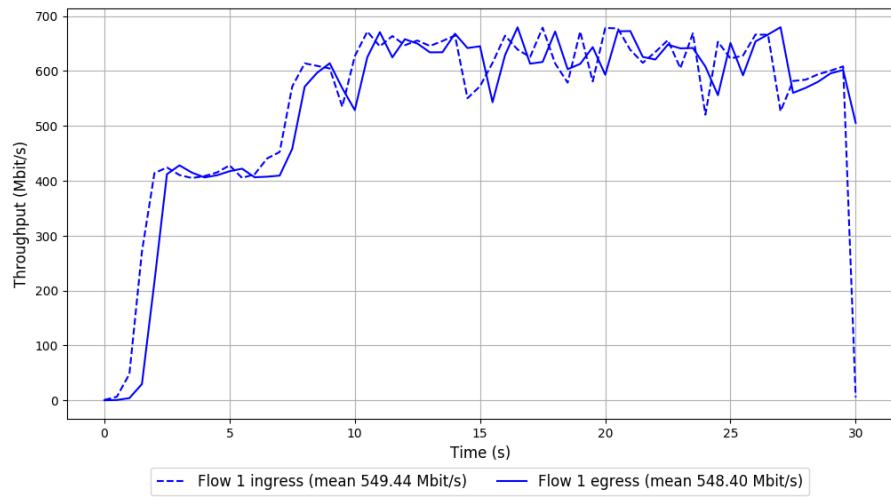


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-18 20:09:10
End at: 2019-01-18 20:09:40
Local clock offset: 2.64 ms
Remote clock offset: 3.467 ms

# Below is generated by plot.py at 2019-01-18 20:46:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 548.40 Mbit/s
95th percentile per-packet one-way delay: 166.325 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 548.40 Mbit/s
95th percentile per-packet one-way delay: 166.325 ms
Loss rate: 0.76%
```

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

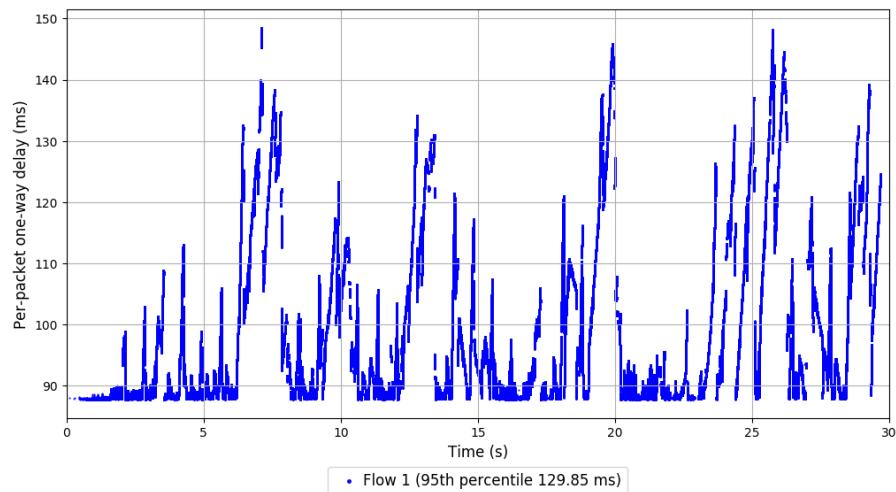
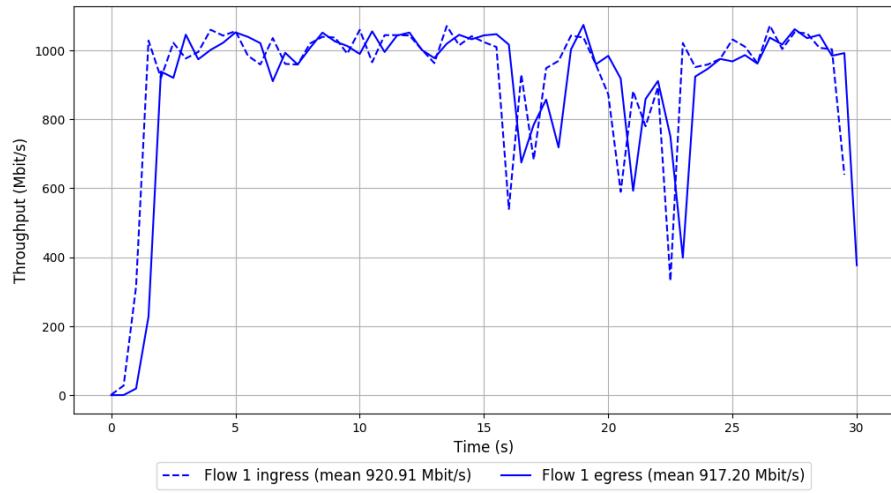


```
Run 1: Statistics of FillP
```

```
Start at: 2019-01-18 17:34:34
End at: 2019-01-18 17:35:04
Local clock offset: 8.287 ms
Remote clock offset: 6.165 ms

# Below is generated by plot.py at 2019-01-18 20:55:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 917.20 Mbit/s
95th percentile per-packet one-way delay: 129.848 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 917.20 Mbit/s
95th percentile per-packet one-way delay: 129.848 ms
Loss rate: 1.05%
```

Run 1: Report of FillP — Data Link

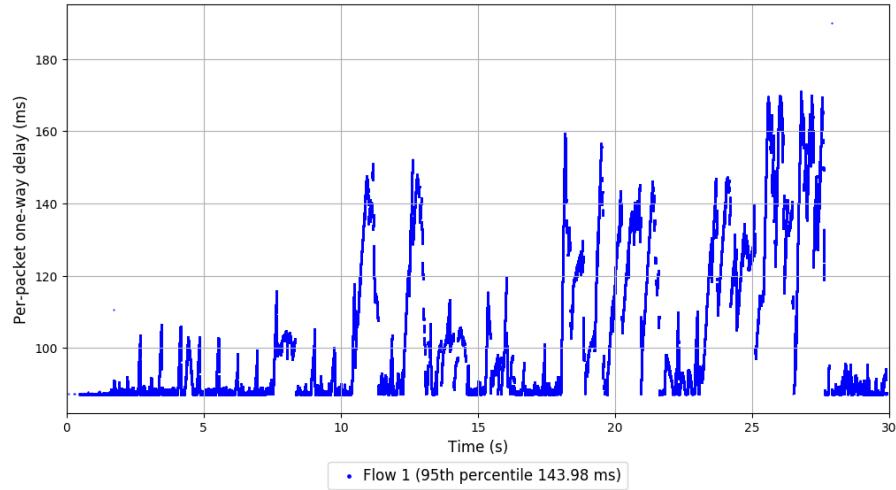
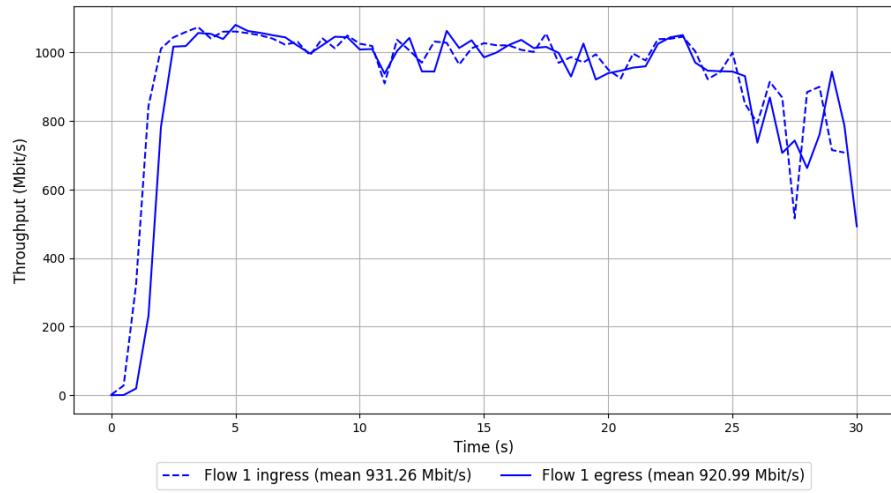


Run 2: Statistics of FillP

```
Start at: 2019-01-18 18:06:02
End at: 2019-01-18 18:06:32
Local clock offset: 25.985 ms
Remote clock offset: 22.491 ms

# Below is generated by plot.py at 2019-01-18 21:06:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 920.99 Mbit/s
95th percentile per-packet one-way delay: 143.978 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 920.99 Mbit/s
95th percentile per-packet one-way delay: 143.978 ms
Loss rate: 1.67%
```

## Run 2: Report of FillP — Data Link

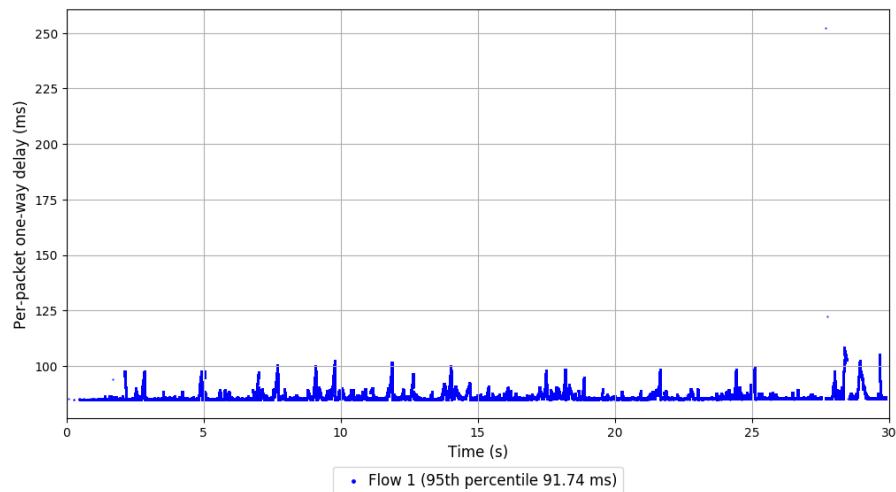
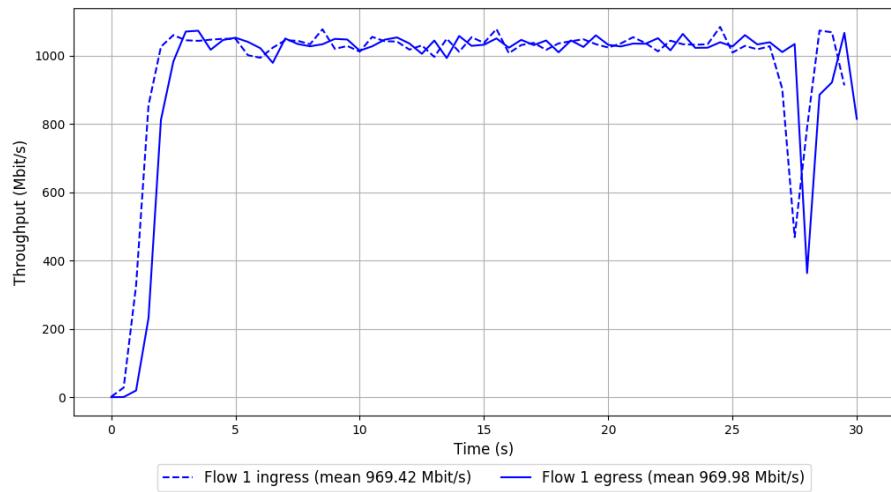


Run 3: Statistics of FillP

```
Start at: 2019-01-18 18:37:54
End at: 2019-01-18 18:38:24
Local clock offset: 41.908 ms
Remote clock offset: 37.937 ms

# Below is generated by plot.py at 2019-01-18 21:08:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 969.98 Mbit/s
95th percentile per-packet one-way delay: 91.744 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 969.98 Mbit/s
95th percentile per-packet one-way delay: 91.744 ms
Loss rate: 0.52%
```

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

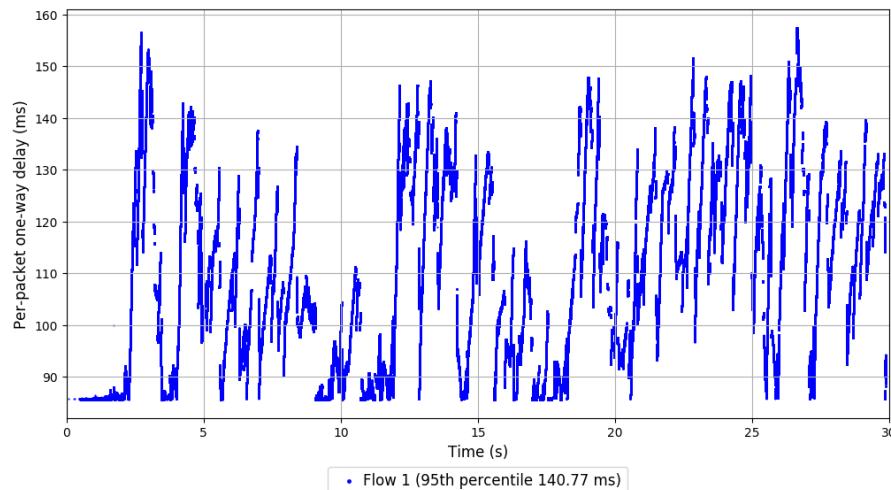
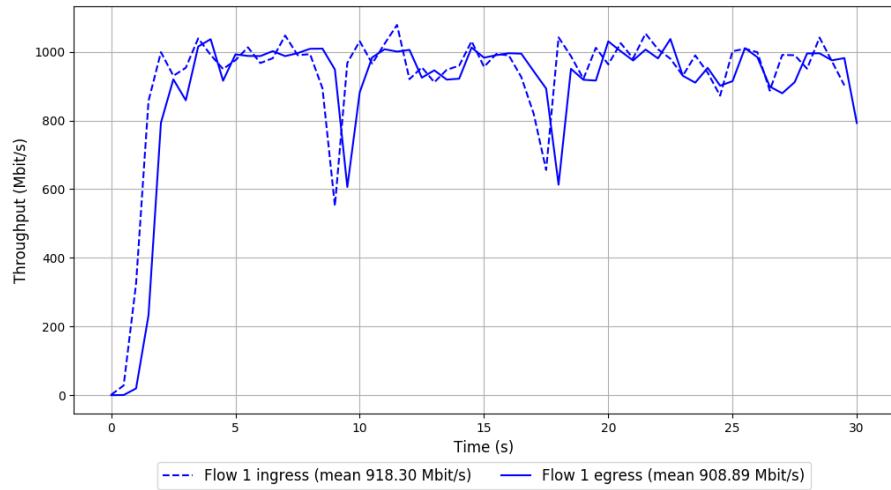


Run 4: Statistics of FillP

```
Start at: 2019-01-18 19:10:18
End at: 2019-01-18 19:10:48
Local clock offset: 20.602 ms
Remote clock offset: 18.36 ms

# Below is generated by plot.py at 2019-01-18 21:08:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 908.89 Mbit/s
95th percentile per-packet one-way delay: 140.766 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 908.89 Mbit/s
95th percentile per-packet one-way delay: 140.766 ms
Loss rate: 1.60%
```

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

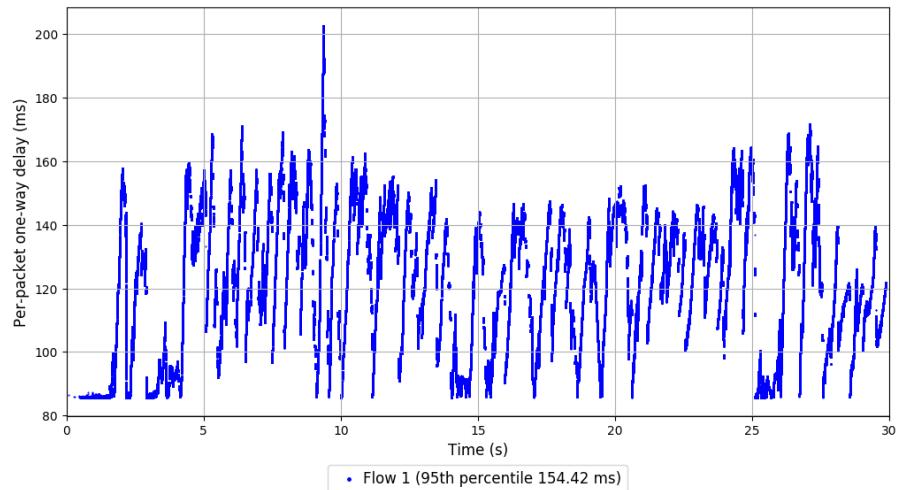
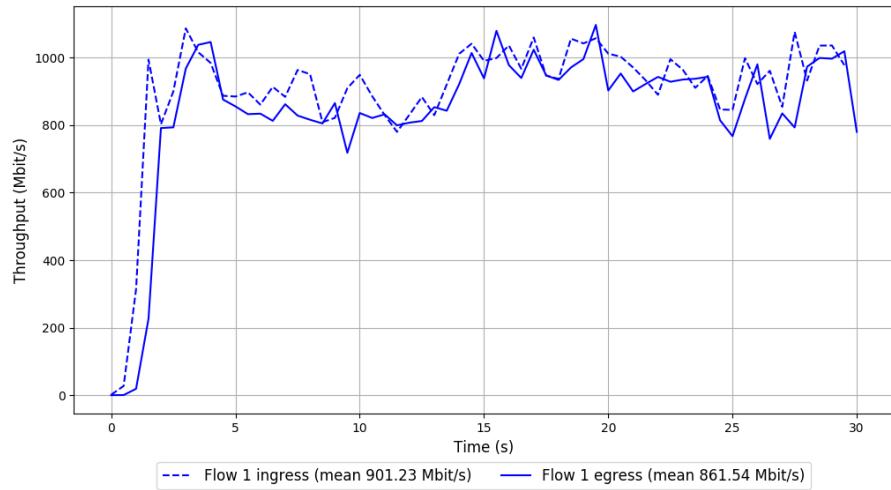


```
Run 5: Statistics of FillP
```

```
Start at: 2019-01-18 19:42:26
End at: 2019-01-18 19:42:56
Local clock offset: 9.617 ms
Remote clock offset: 8.423 ms

# Below is generated by plot.py at 2019-01-18 21:08:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 861.54 Mbit/s
95th percentile per-packet one-way delay: 154.423 ms
Loss rate: 4.96%
-- Flow 1:
Average throughput: 861.54 Mbit/s
95th percentile per-packet one-way delay: 154.423 ms
Loss rate: 4.96%
```

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

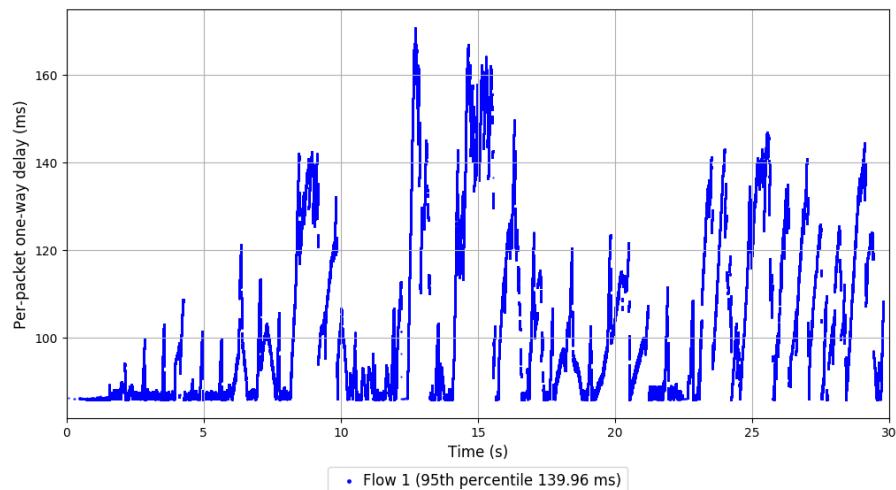
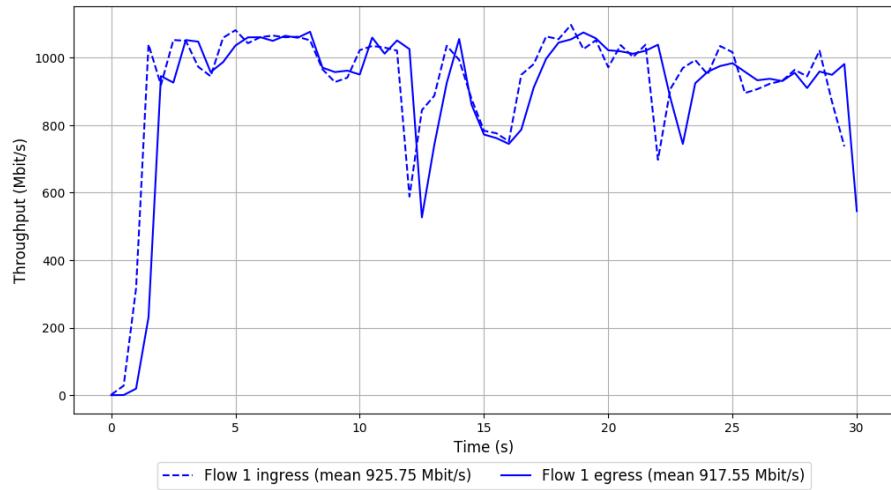


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-18 18:01:25
End at: 2019-01-18 18:01:55
Local clock offset: 24.189 ms
Remote clock offset: 21.907 ms

# Below is generated by plot.py at 2019-01-18 21:08:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 917.55 Mbit/s
95th percentile per-packet one-way delay: 139.958 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 917.55 Mbit/s
95th percentile per-packet one-way delay: 139.958 ms
Loss rate: 1.46%
```

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

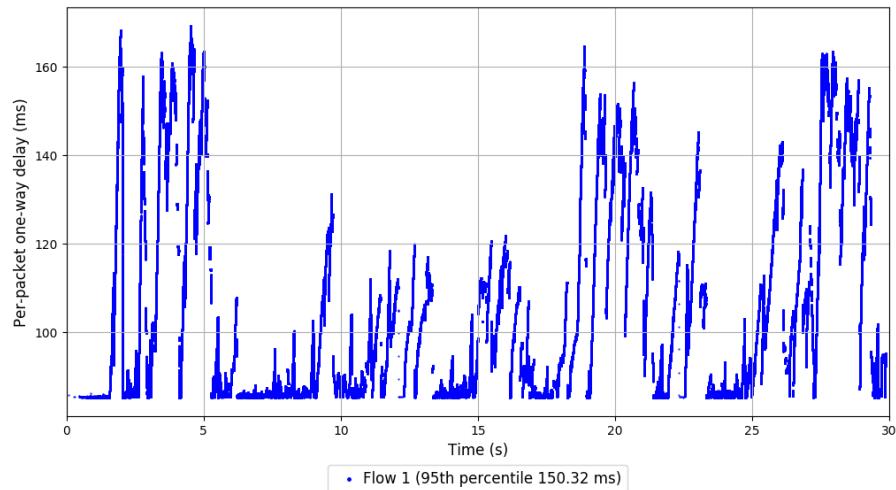
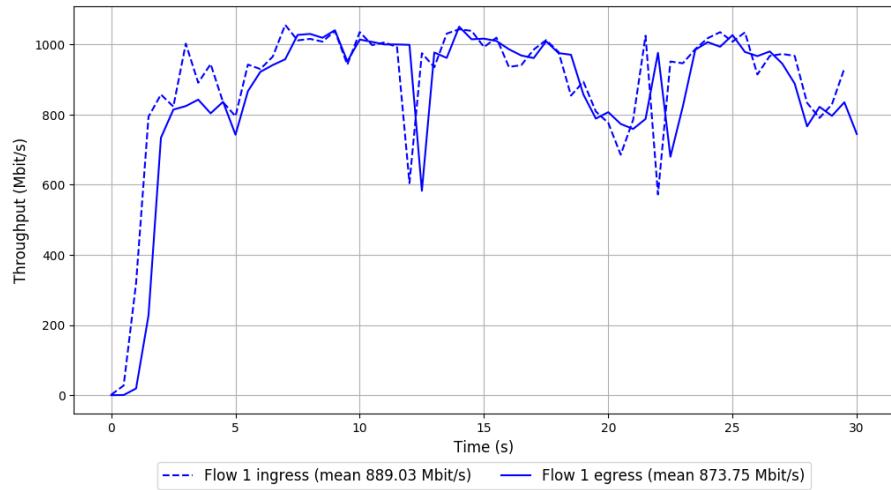


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-18 18:33:12
End at: 2019-01-18 18:33:42
Local clock offset: 36.849 ms
Remote clock offset: 33.086 ms

# Below is generated by plot.py at 2019-01-18 21:08:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 873.75 Mbit/s
95th percentile per-packet one-way delay: 150.319 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 873.75 Mbit/s
95th percentile per-packet one-way delay: 150.319 ms
Loss rate: 2.29%
```

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

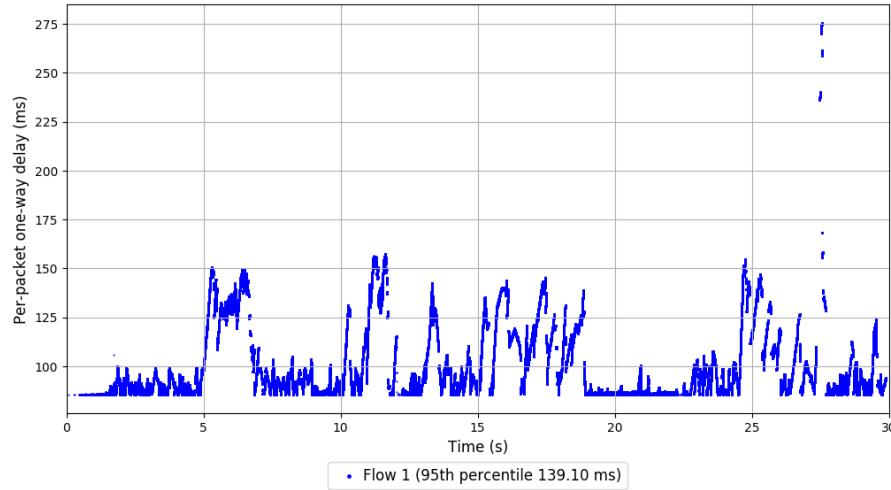
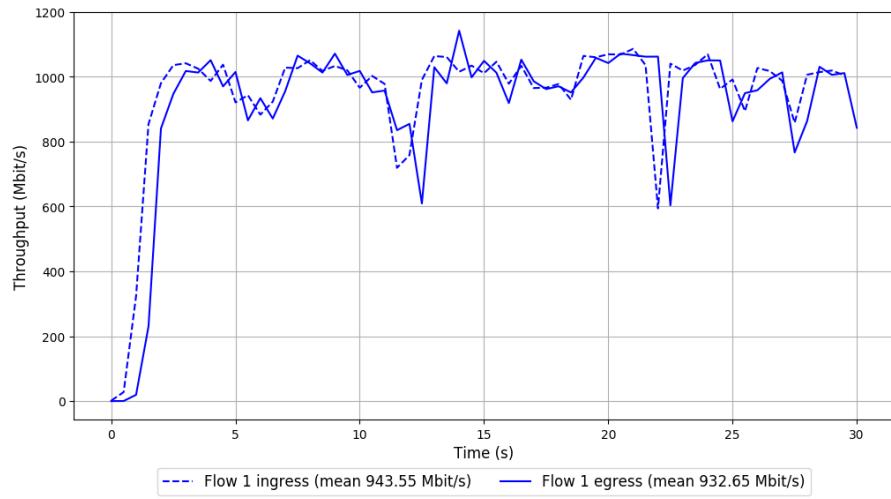


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-18 19:05:38
End at: 2019-01-18 19:06:08
Local clock offset: 18.249 ms
Remote clock offset: 16.436 ms

# Below is generated by plot.py at 2019-01-18 21:08:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 932.65 Mbit/s
95th percentile per-packet one-way delay: 139.100 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 932.65 Mbit/s
95th percentile per-packet one-way delay: 139.100 ms
Loss rate: 1.72%
```

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

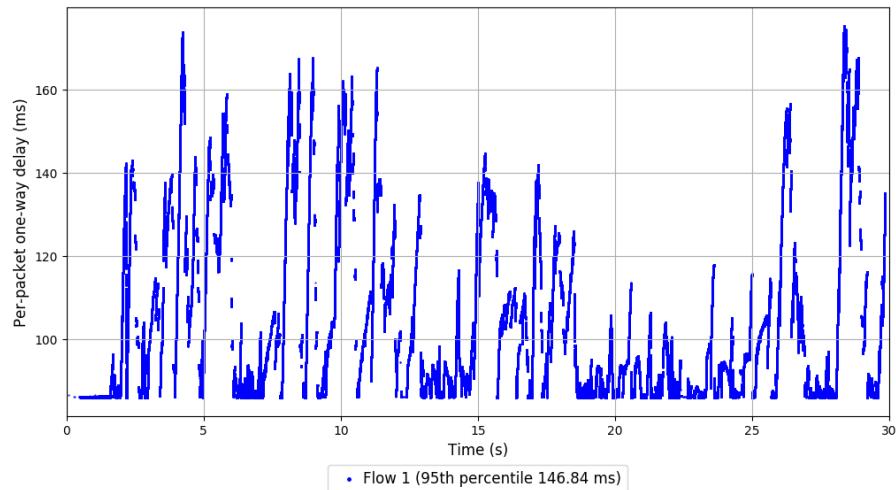
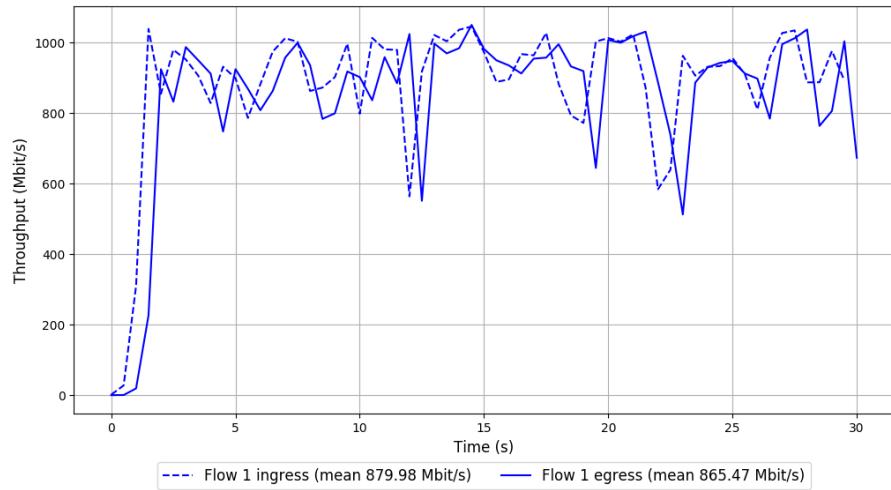


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-18 19:37:50
End at: 2019-01-18 19:38:20
Local clock offset: 8.694 ms
Remote clock offset: 7.621 ms

# Below is generated by plot.py at 2019-01-18 21:18:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 865.47 Mbit/s
95th percentile per-packet one-way delay: 146.837 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 865.47 Mbit/s
95th percentile per-packet one-way delay: 146.837 ms
Loss rate: 2.22%
```

Run 4: Report of FillP-Sheep — Data Link

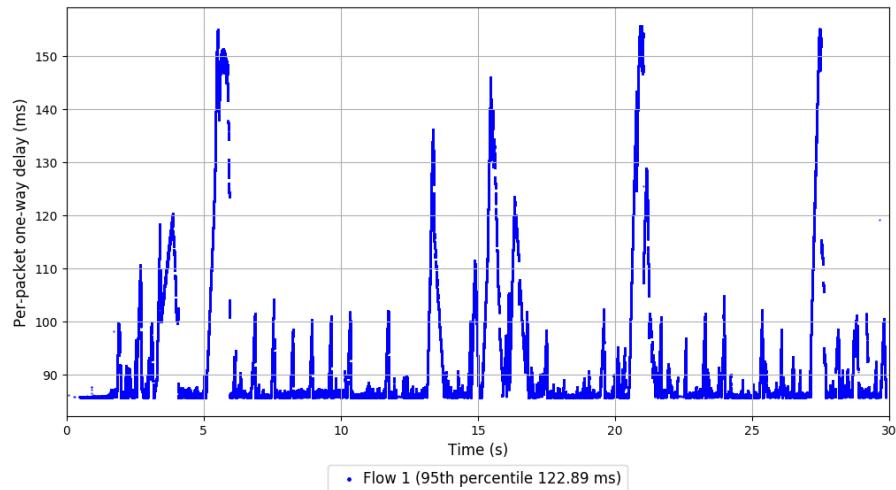
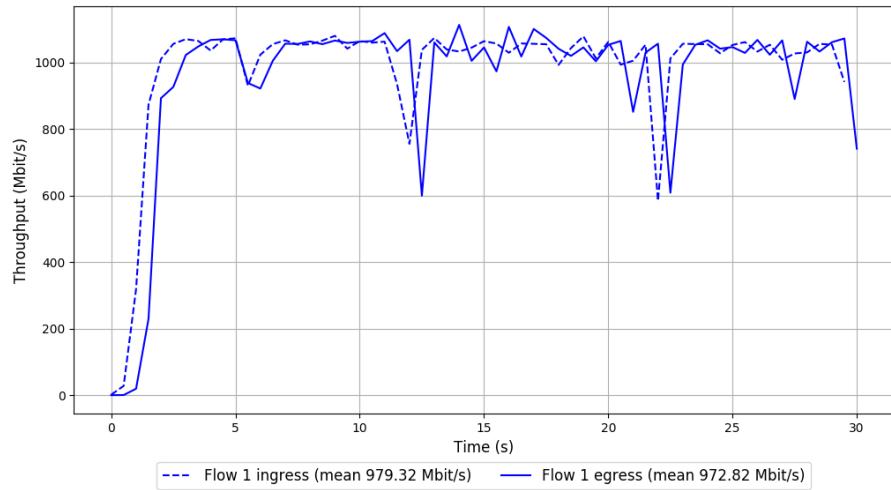


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-18 20:10:51
End at: 2019-01-18 20:11:21
Local clock offset: 2.273 ms
Remote clock offset: 3.559 ms

# Below is generated by plot.py at 2019-01-18 21:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 972.82 Mbit/s
95th percentile per-packet one-way delay: 122.887 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 972.82 Mbit/s
95th percentile per-packet one-way delay: 122.887 ms
Loss rate: 1.24%
```

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

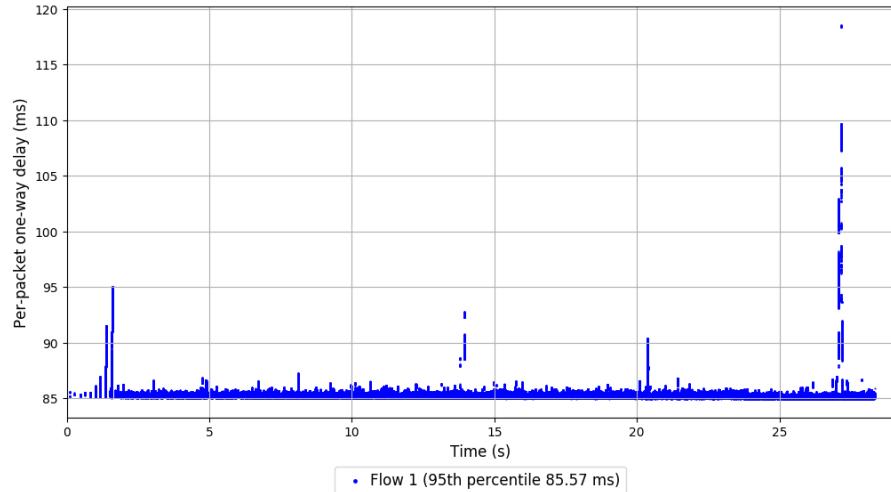
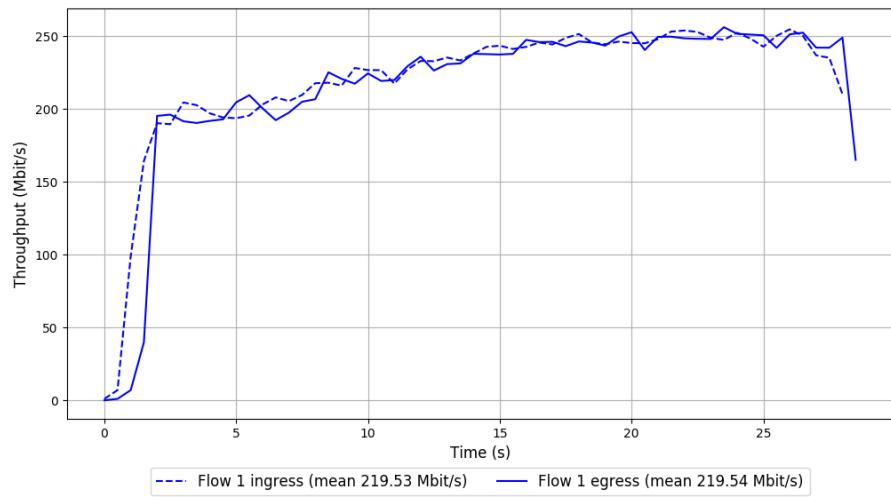


Run 1: Statistics of Indigo

```
Start at: 2019-01-18 17:44:50
End at: 2019-01-18 17:45:20
Local clock offset: 14.286 ms
Remote clock offset: 13.49 ms

# Below is generated by plot.py at 2019-01-18 21:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.54 Mbit/s
95th percentile per-packet one-way delay: 85.567 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 219.54 Mbit/s
95th percentile per-packet one-way delay: 85.567 ms
Loss rate: 0.60%
```

## Run 1: Report of Indigo — Data Link

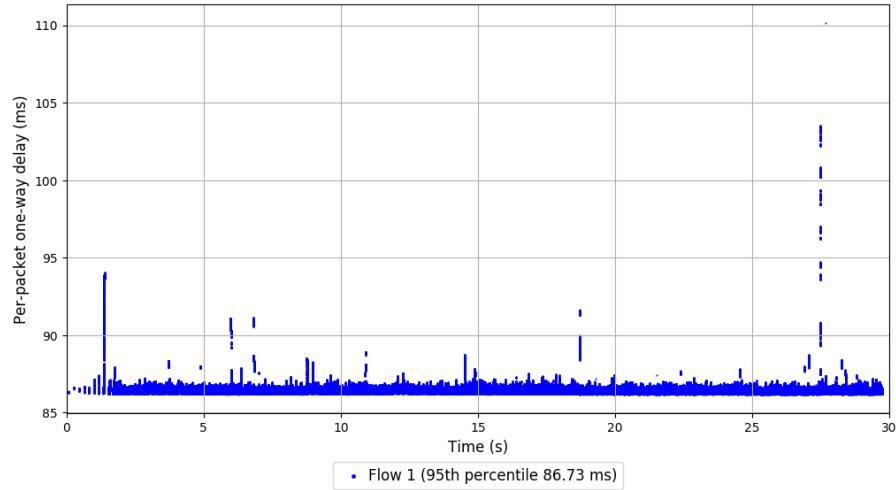
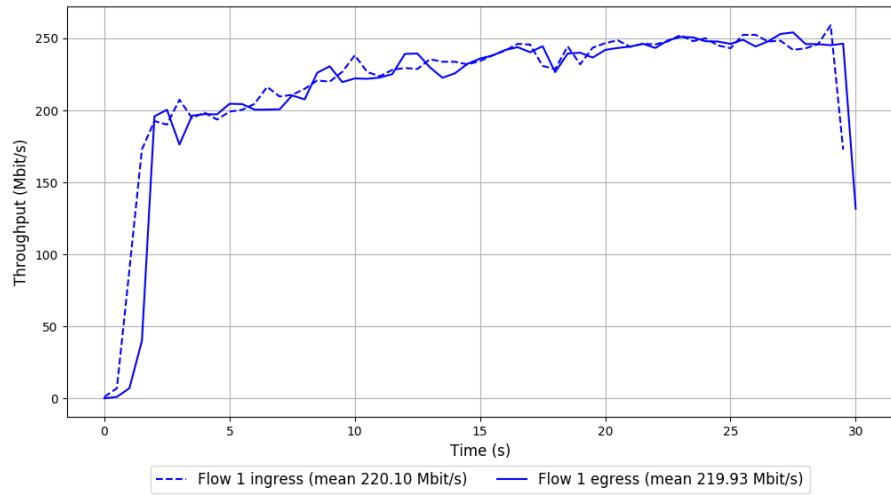


Run 2: Statistics of Indigo

```
Start at: 2019-01-18 18:16:43
End at: 2019-01-18 18:17:13
Local clock offset: 22.578 ms
Remote clock offset: 19.926 ms

# Below is generated by plot.py at 2019-01-18 21:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.93 Mbit/s
95th percentile per-packet one-way delay: 86.734 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 219.93 Mbit/s
95th percentile per-packet one-way delay: 86.734 ms
Loss rate: 0.66%
```

## Run 2: Report of Indigo — Data Link

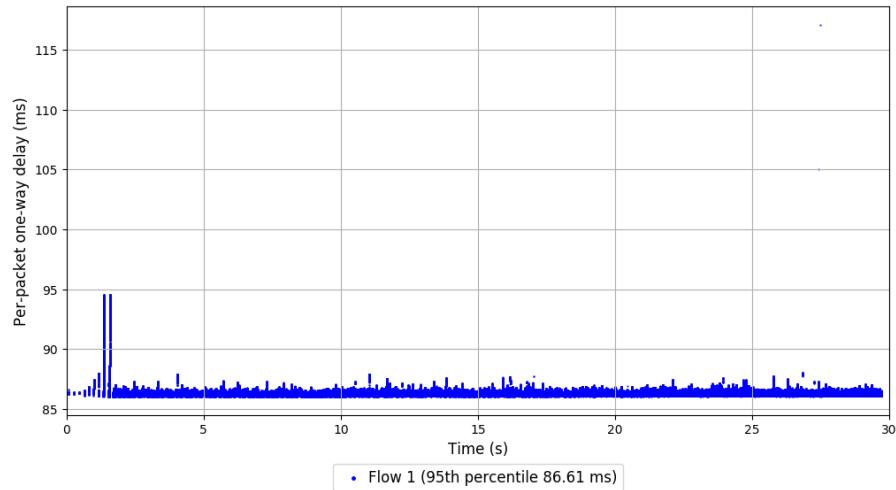
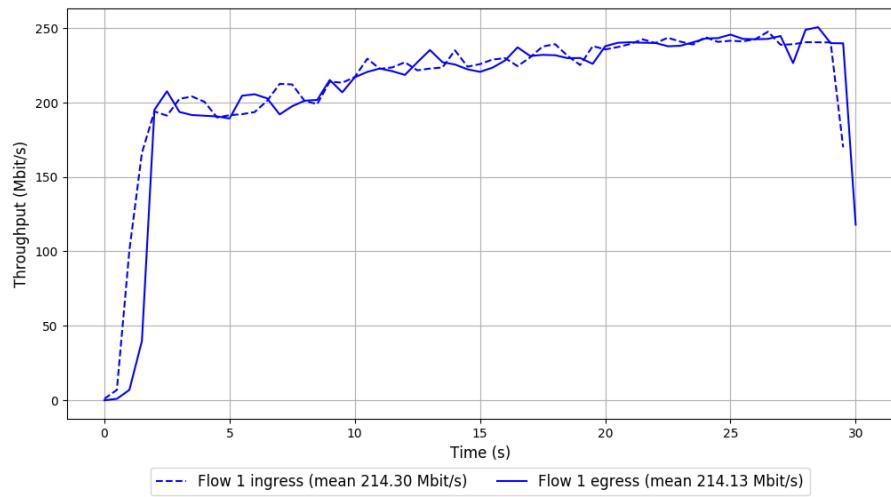


Run 3: Statistics of Indigo

```
Start at: 2019-01-18 18:48:45
End at: 2019-01-18 18:49:15
Local clock offset: 19.066 ms
Remote clock offset: 16.699 ms

# Below is generated by plot.py at 2019-01-18 21:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.13 Mbit/s
95th percentile per-packet one-way delay: 86.606 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 214.13 Mbit/s
95th percentile per-packet one-way delay: 86.606 ms
Loss rate: 0.66%
```

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

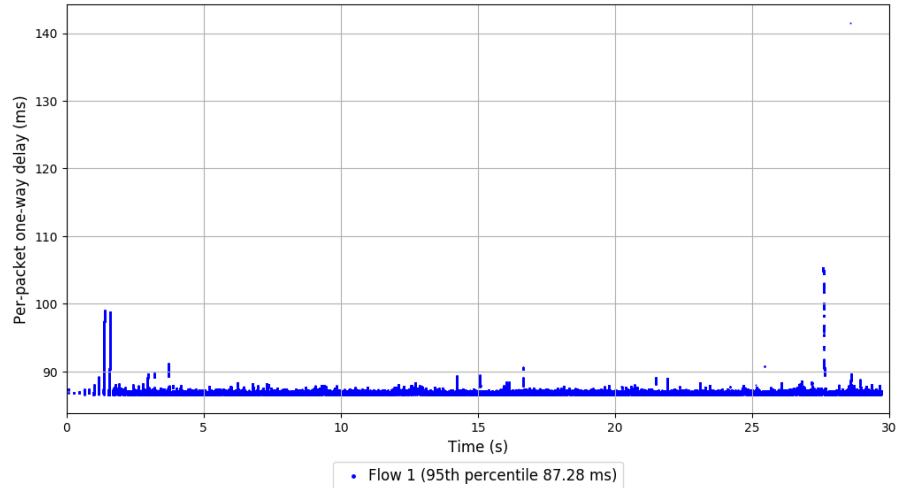
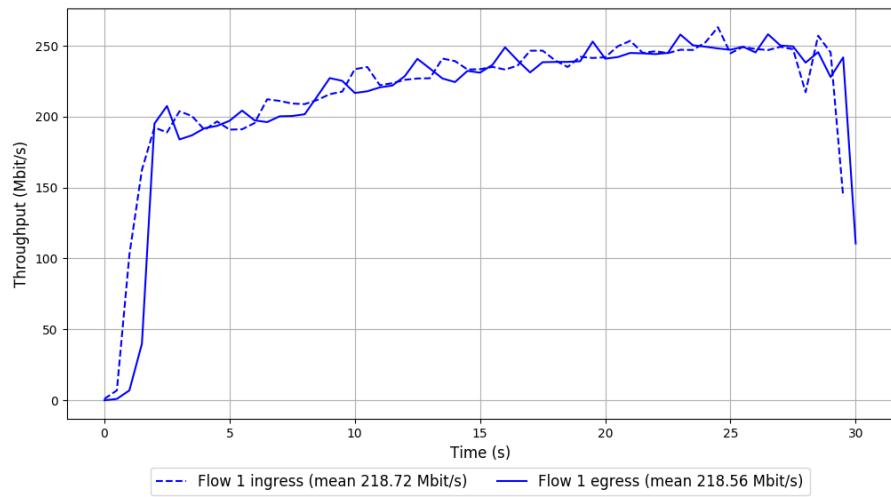


Run 4: Statistics of Indigo

```
Start at: 2019-01-18 19:21:22
End at: 2019-01-18 19:21:52
Local clock offset: 10.797 ms
Remote clock offset: 9.055 ms

# Below is generated by plot.py at 2019-01-18 21:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.56 Mbit/s
95th percentile per-packet one-way delay: 87.281 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 218.56 Mbit/s
95th percentile per-packet one-way delay: 87.281 ms
Loss rate: 0.66%
```

## Run 4: Report of Indigo — Data Link

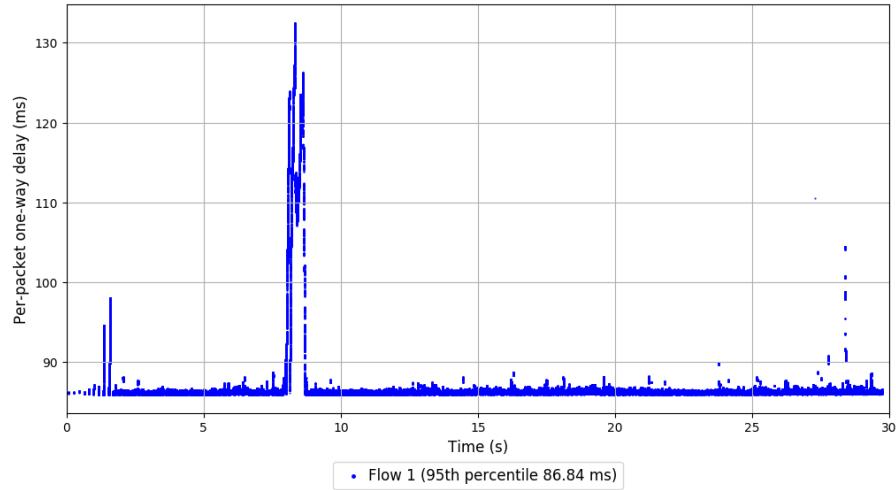
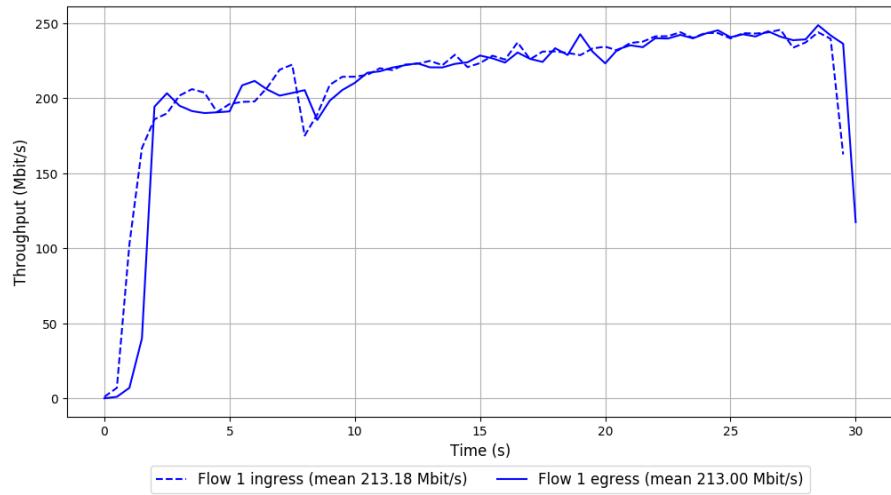


Run 5: Statistics of Indigo

```
Start at: 2019-01-18 19:53:27
End at: 2019-01-18 19:53:57
Local clock offset: 5.297 ms
Remote clock offset: 4.882 ms

# Below is generated by plot.py at 2019-01-18 21:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.00 Mbit/s
95th percentile per-packet one-way delay: 86.839 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 213.00 Mbit/s
95th percentile per-packet one-way delay: 86.839 ms
Loss rate: 0.66%
```

## Run 5: Report of Indigo — Data Link

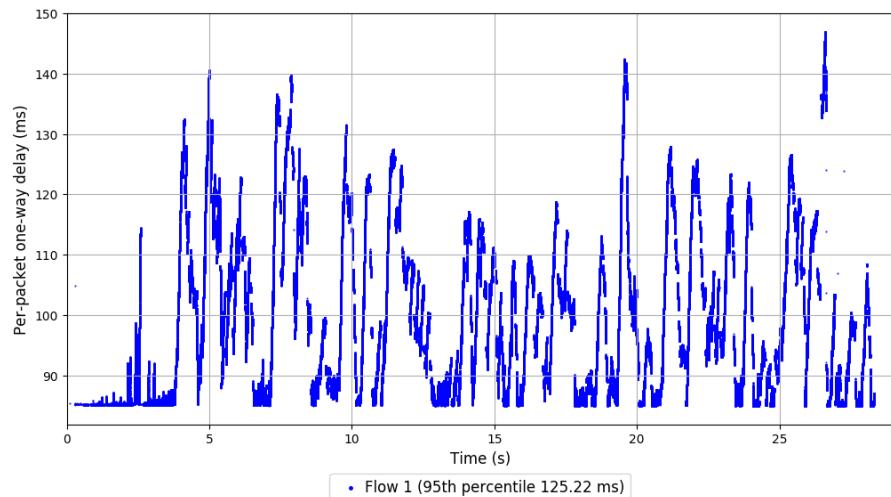
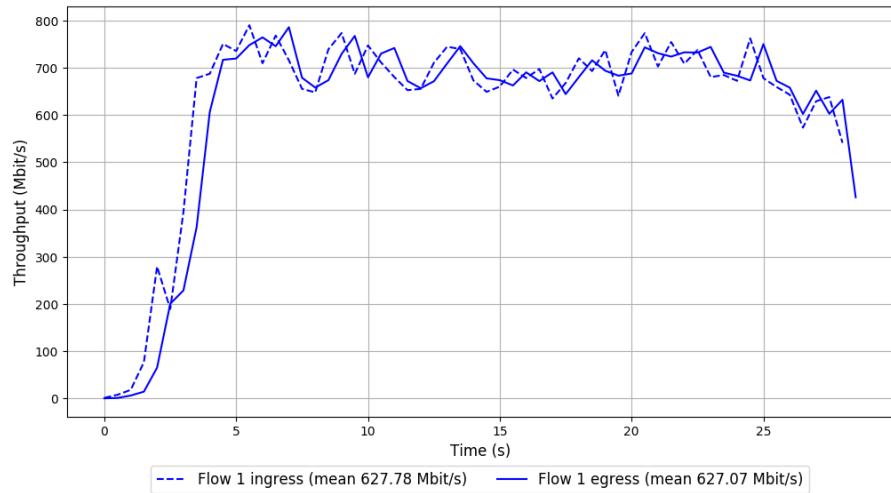


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 17:46:18
End at: 2019-01-18 17:46:48
Local clock offset: 16.992 ms
Remote clock offset: 15.842 ms

# Below is generated by plot.py at 2019-01-18 21:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 627.07 Mbit/s
95th percentile per-packet one-way delay: 125.222 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 627.07 Mbit/s
95th percentile per-packet one-way delay: 125.222 ms
Loss rate: 0.72%
```

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

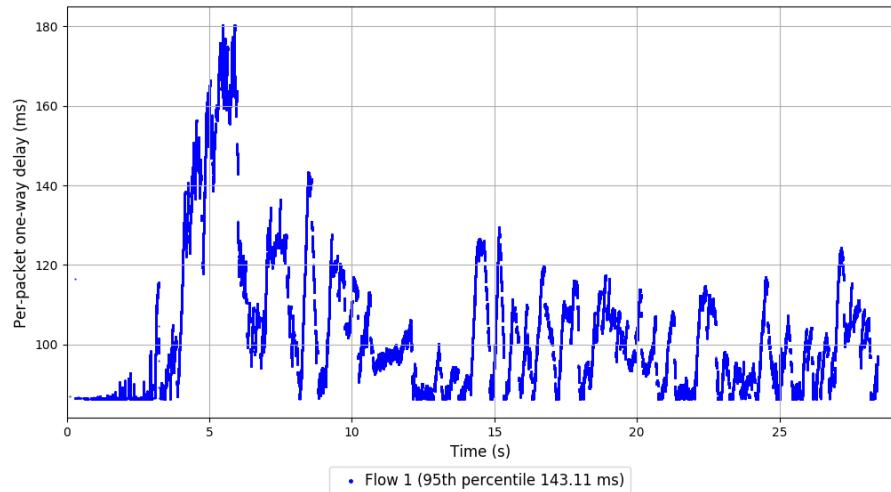
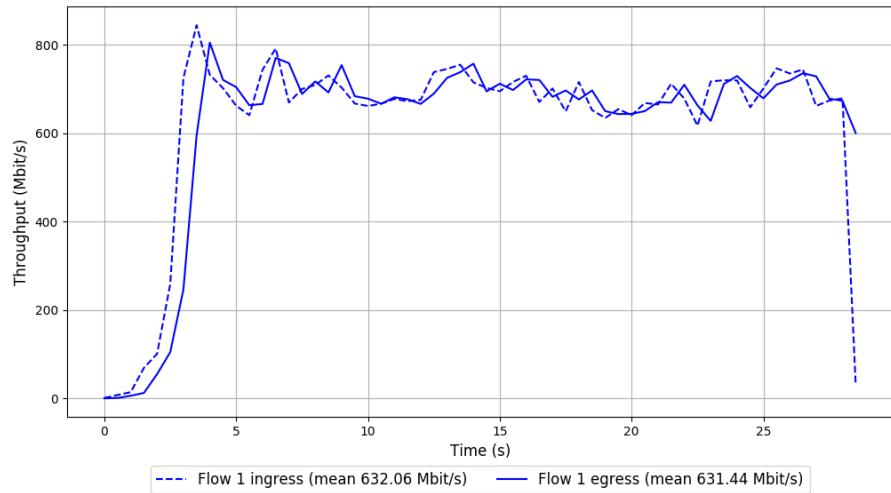


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 18:18:13
End at: 2019-01-18 18:18:44
Local clock offset: 22.922 ms
Remote clock offset: 20.462 ms

# Below is generated by plot.py at 2019-01-18 21:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 631.44 Mbit/s
95th percentile per-packet one-way delay: 143.110 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 631.44 Mbit/s
95th percentile per-packet one-way delay: 143.110 ms
Loss rate: 0.71%
```

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

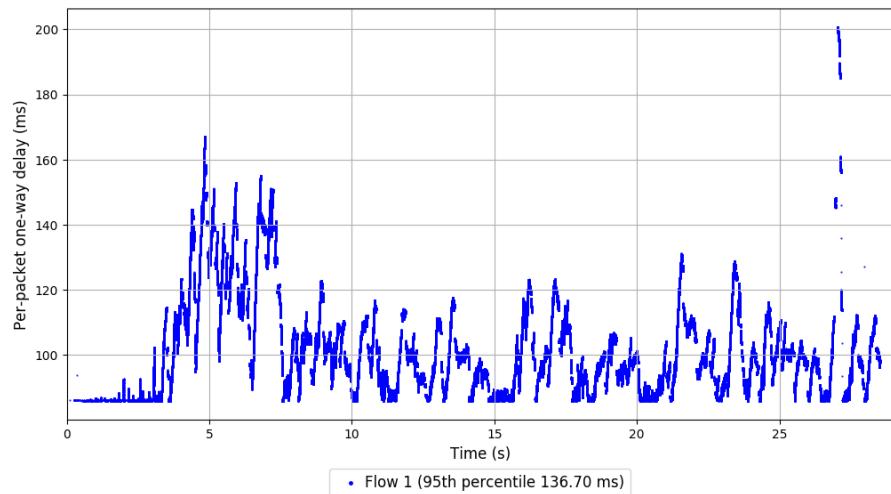
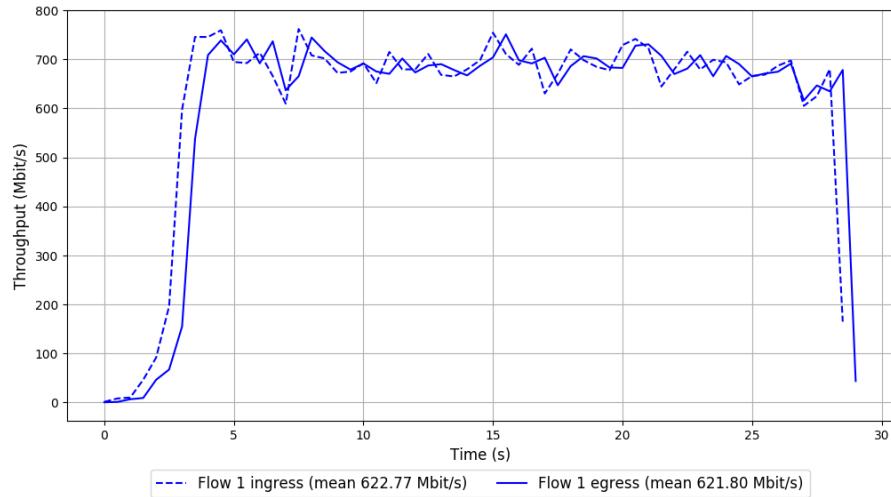


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 18:50:16
End at: 2019-01-18 18:50:46
Local clock offset: 17.961 ms
Remote clock offset: 15.813 ms

# Below is generated by plot.py at 2019-01-18 21:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 621.80 Mbit/s
95th percentile per-packet one-way delay: 136.701 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 621.80 Mbit/s
95th percentile per-packet one-way delay: 136.701 ms
Loss rate: 0.76%
```

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

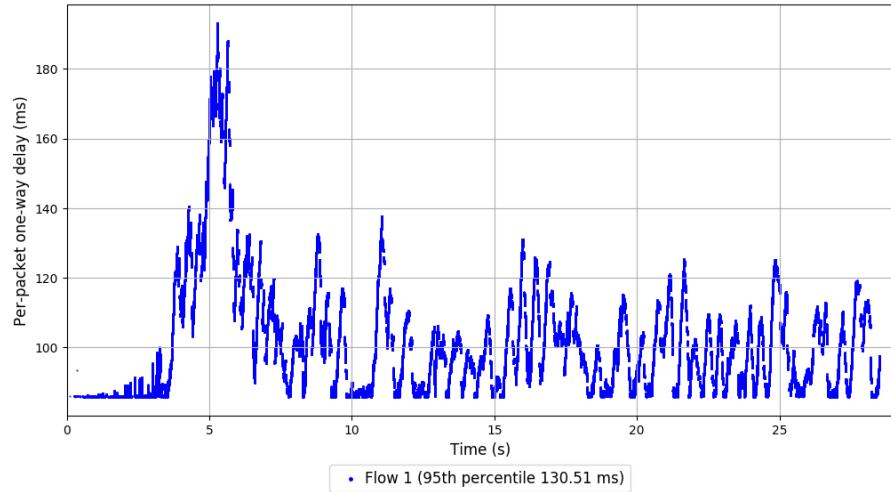
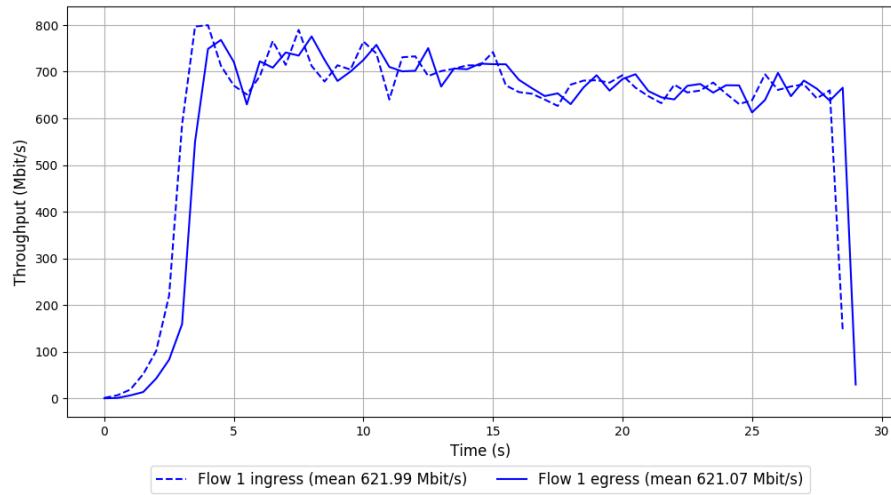


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 19:22:52
End at: 2019-01-18 19:23:22
Local clock offset: 9.299 ms
Remote clock offset: 8.283 ms

# Below is generated by plot.py at 2019-01-18 21:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 621.07 Mbit/s
95th percentile per-packet one-way delay: 130.514 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 621.07 Mbit/s
95th percentile per-packet one-way delay: 130.514 ms
Loss rate: 0.75%
```

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

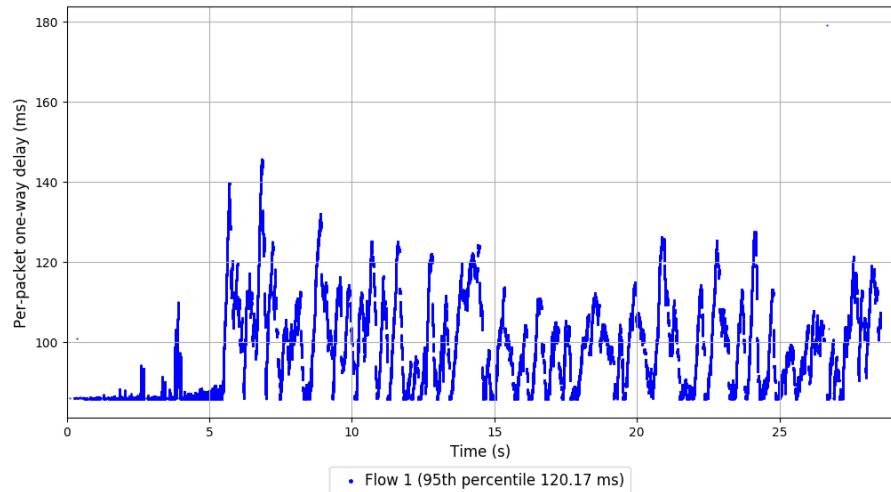
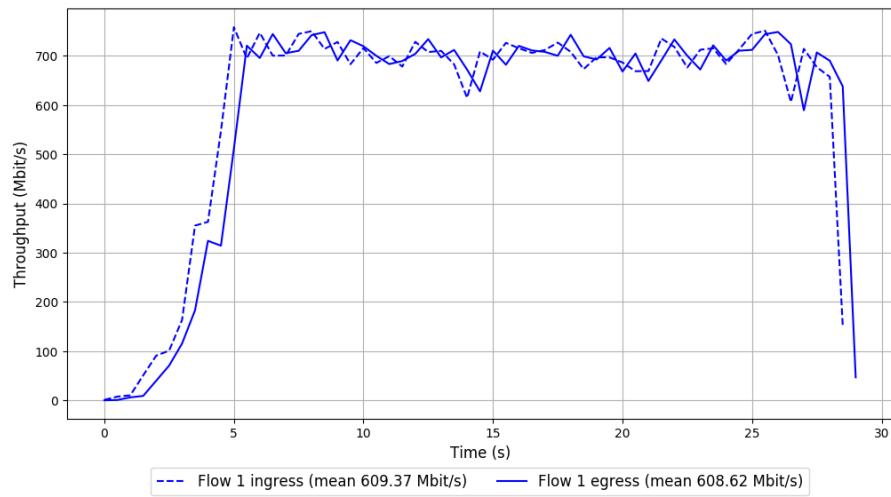


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-18 19:54:59
End at: 2019-01-18 19:55:29
Local clock offset: 4.54 ms
Remote clock offset: 4.447 ms

# Below is generated by plot.py at 2019-01-18 21:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 608.62 Mbit/s
95th percentile per-packet one-way delay: 120.169 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 608.62 Mbit/s
95th percentile per-packet one-way delay: 120.169 ms
Loss rate: 0.73%
```

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

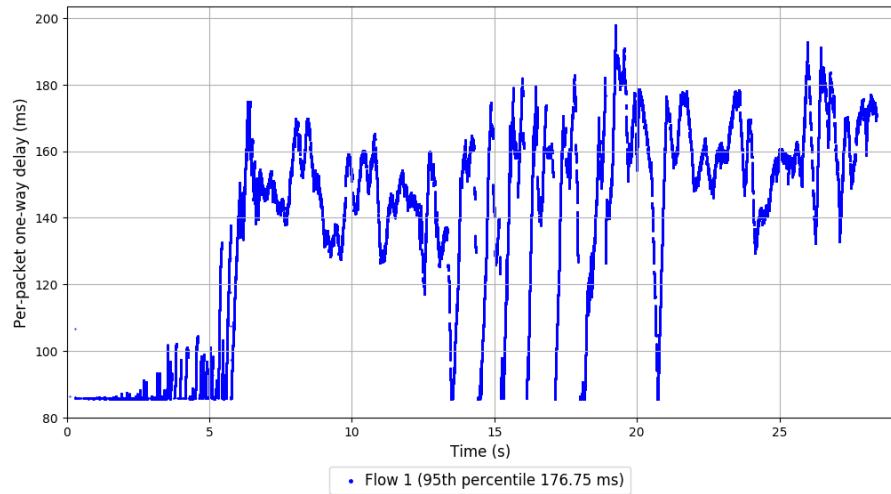
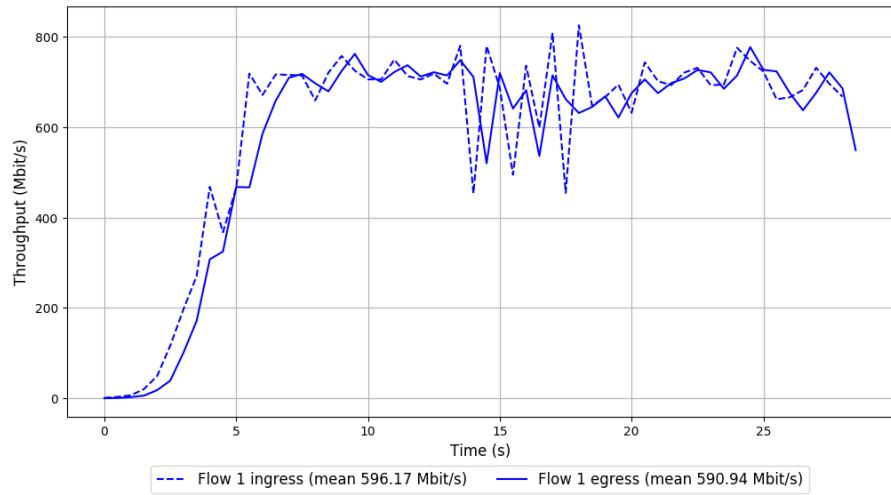


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-18 17:56:42
End at: 2019-01-18 17:57:12
Local clock offset: 18.219 ms
Remote clock offset: 16.08 ms

# Below is generated by plot.py at 2019-01-18 21:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 590.94 Mbit/s
95th percentile per-packet one-way delay: 176.748 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 590.94 Mbit/s
95th percentile per-packet one-way delay: 176.748 ms
Loss rate: 1.48%
```

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

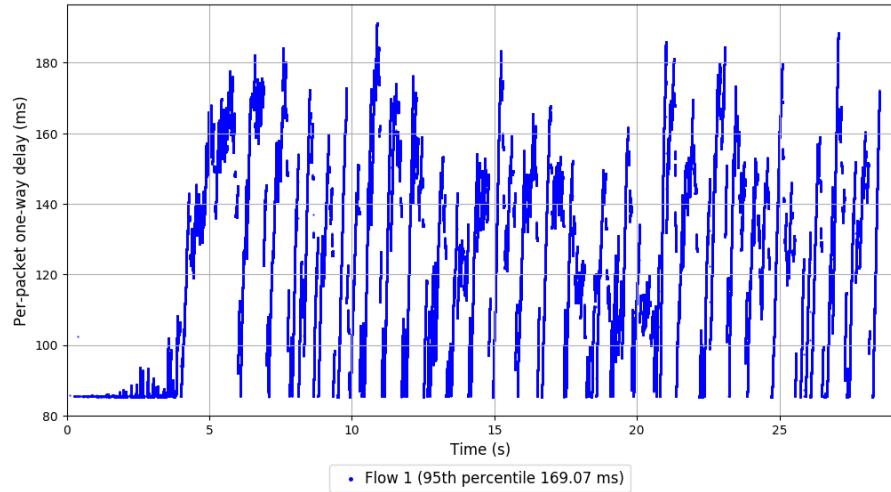
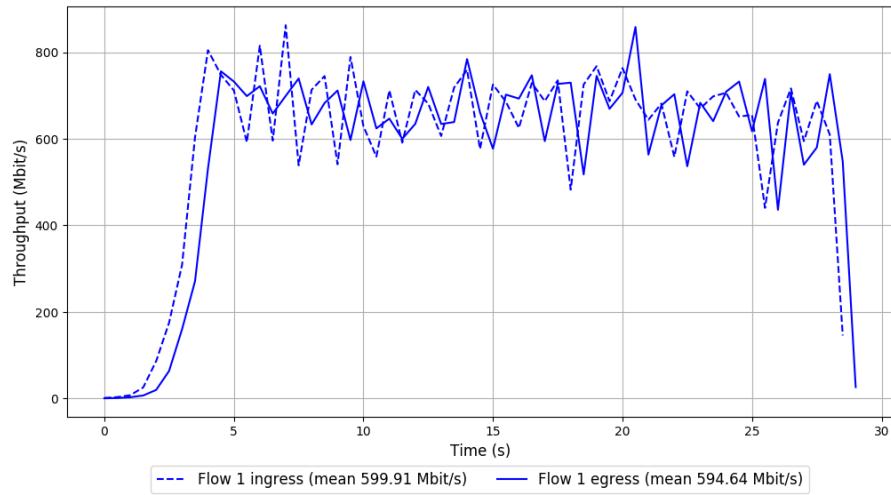


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 18:28:28
End at: 2019-01-18 18:28:58
Local clock offset: 31.706 ms
Remote clock offset: 28.414 ms

# Below is generated by plot.py at 2019-01-18 21:31:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 594.64 Mbit/s
95th percentile per-packet one-way delay: 169.070 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 594.64 Mbit/s
95th percentile per-packet one-way delay: 169.070 ms
Loss rate: 1.48%
```

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

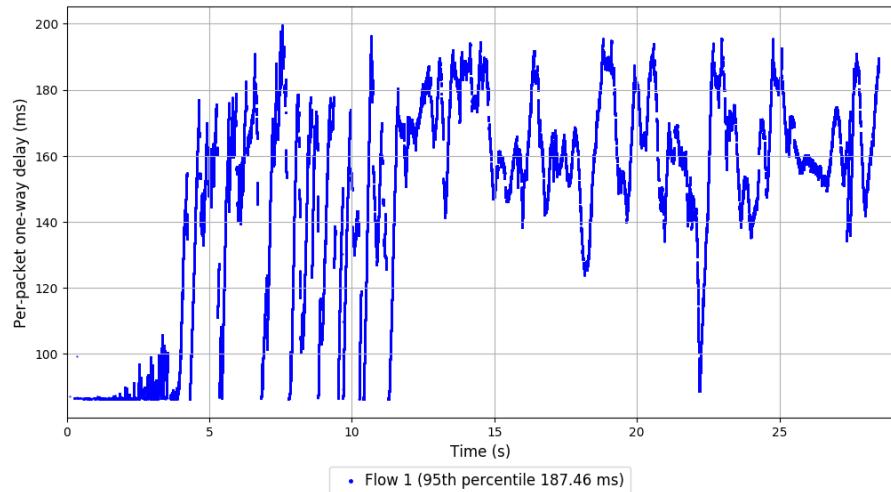
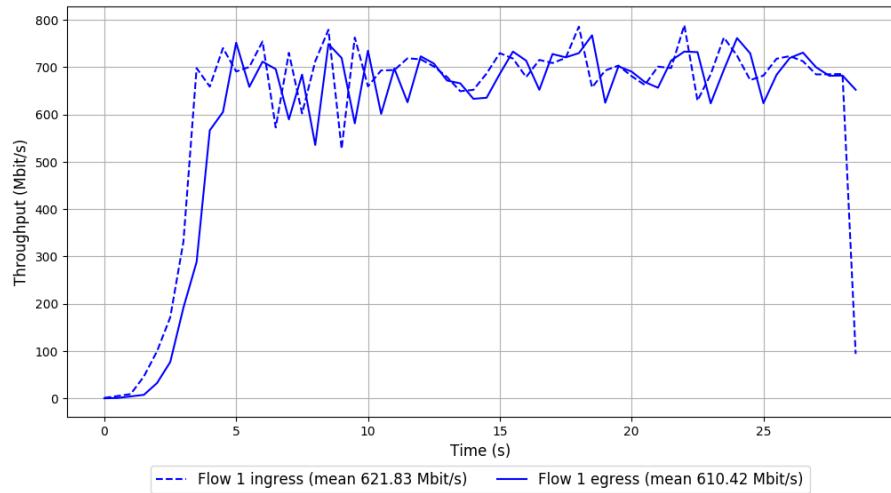


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 19:00:54
End at: 2019-01-18 19:01:24
Local clock offset: 17.063 ms
Remote clock offset: 14.97 ms

# Below is generated by plot.py at 2019-01-18 21:32:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 610.42 Mbit/s
95th percentile per-packet one-way delay: 187.457 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 610.42 Mbit/s
95th percentile per-packet one-way delay: 187.457 ms
Loss rate: 2.43%
```

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

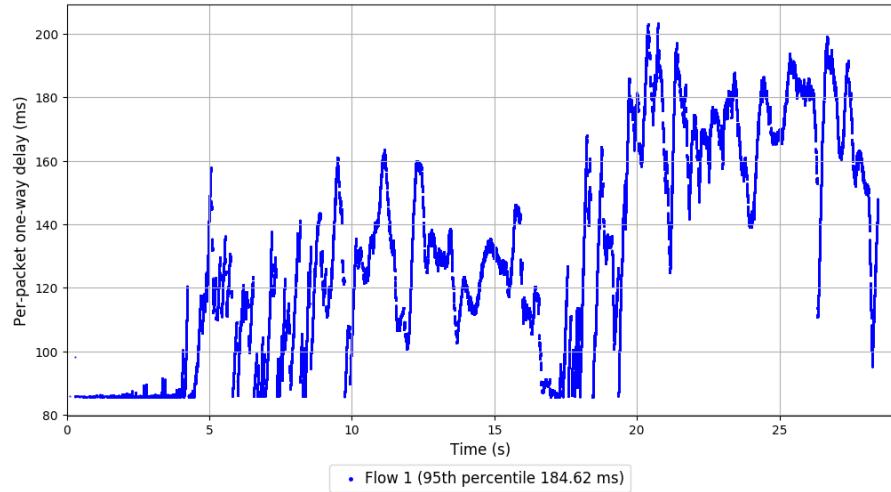
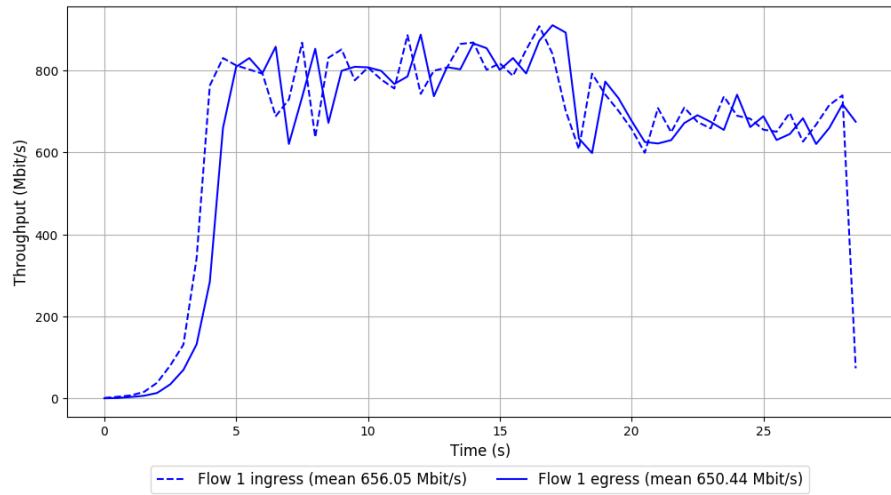


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 19:33:13
End at: 2019-01-18 19:33:43
Local clock offset: 7.699 ms
Remote clock offset: 7.106 ms

# Below is generated by plot.py at 2019-01-18 21:39:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 650.44 Mbit/s
95th percentile per-packet one-way delay: 184.623 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 650.44 Mbit/s
95th percentile per-packet one-way delay: 184.623 ms
Loss rate: 1.45%
```

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

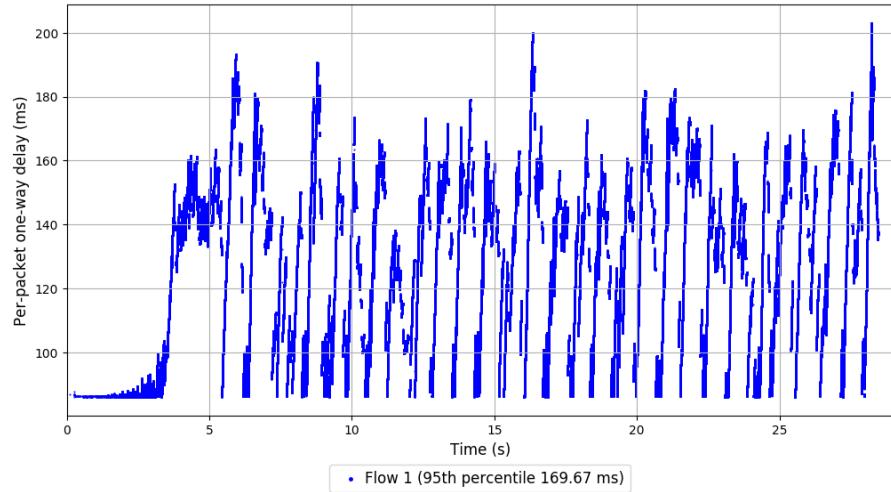
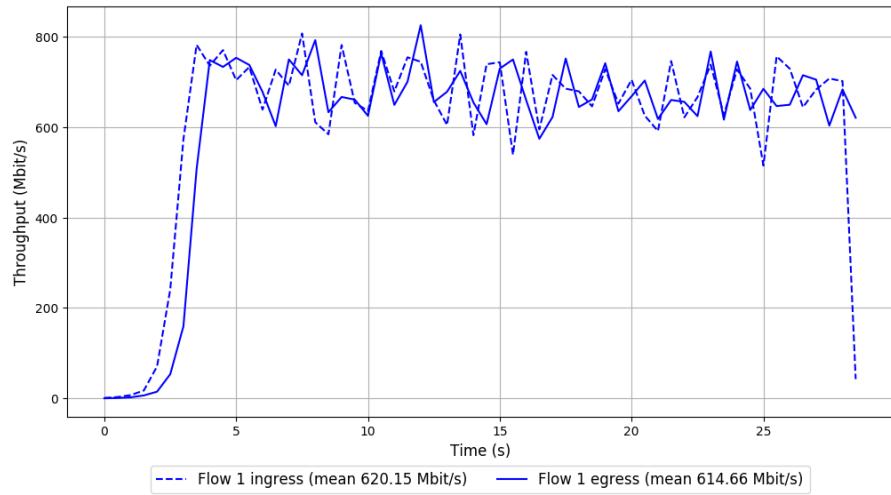


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-18 20:05:49
End at: 2019-01-18 20:06:19
Local clock offset: 2.778 ms
Remote clock offset: 3.379 ms

# Below is generated by plot.py at 2019-01-18 21:39:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 614.66 Mbit/s
95th percentile per-packet one-way delay: 169.666 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 614.66 Mbit/s
95th percentile per-packet one-way delay: 169.666 ms
Loss rate: 1.41%
```

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

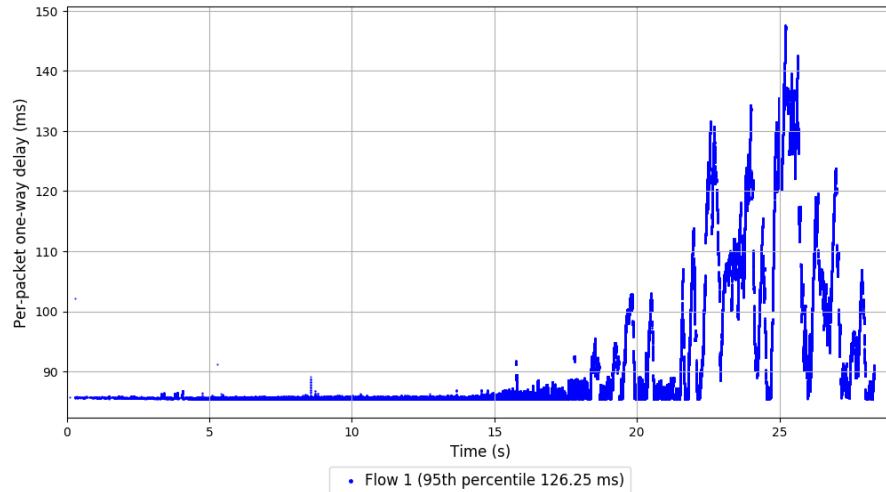
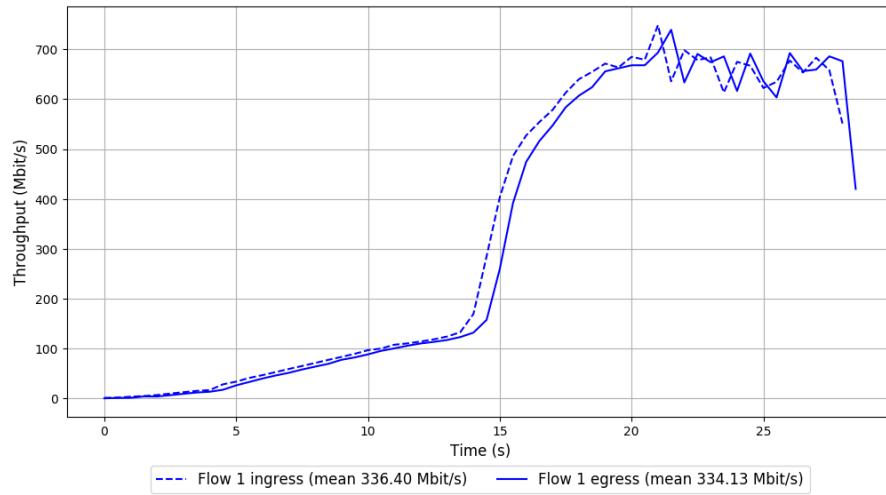


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-01-18 17:58:20
End at: 2019-01-18 17:58:50
Local clock offset: 20.078 ms
Remote clock offset: 17.962 ms

# Below is generated by plot.py at 2019-01-18 21:39:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 334.13 Mbit/s
95th percentile per-packet one-way delay: 126.247 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 334.13 Mbit/s
95th percentile per-packet one-way delay: 126.247 ms
Loss rate: 1.28%
```

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

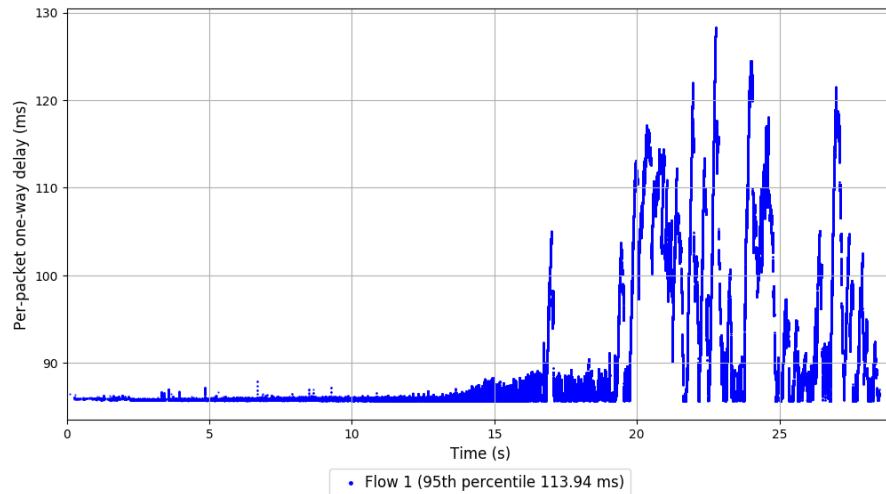
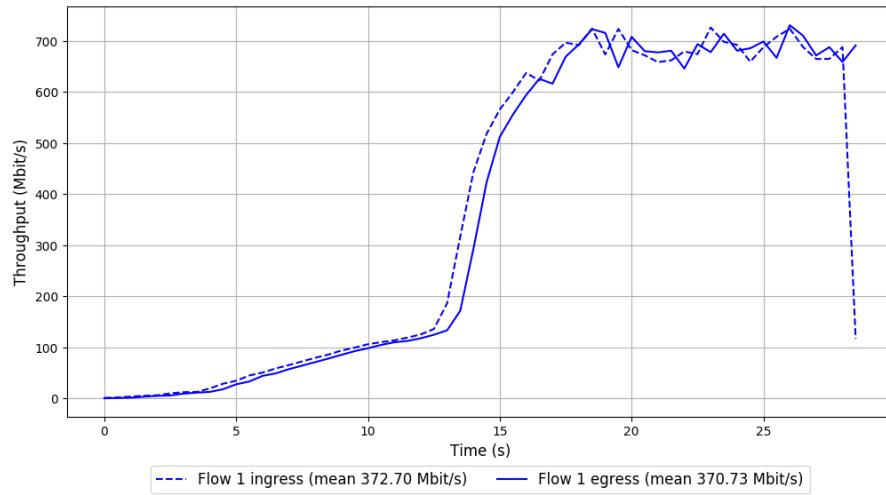


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 18:30:06
End at: 2019-01-18 18:30:36
Local clock offset: 33.765 ms
Remote clock offset: 29.963 ms

# Below is generated by plot.py at 2019-01-18 21:39:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 370.73 Mbit/s
95th percentile per-packet one-way delay: 113.938 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 370.73 Mbit/s
95th percentile per-packet one-way delay: 113.938 ms
Loss rate: 1.13%
```

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

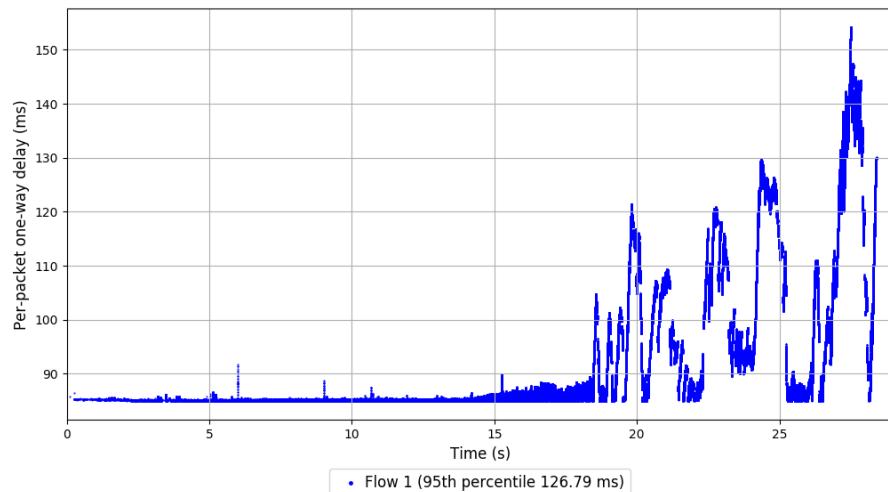
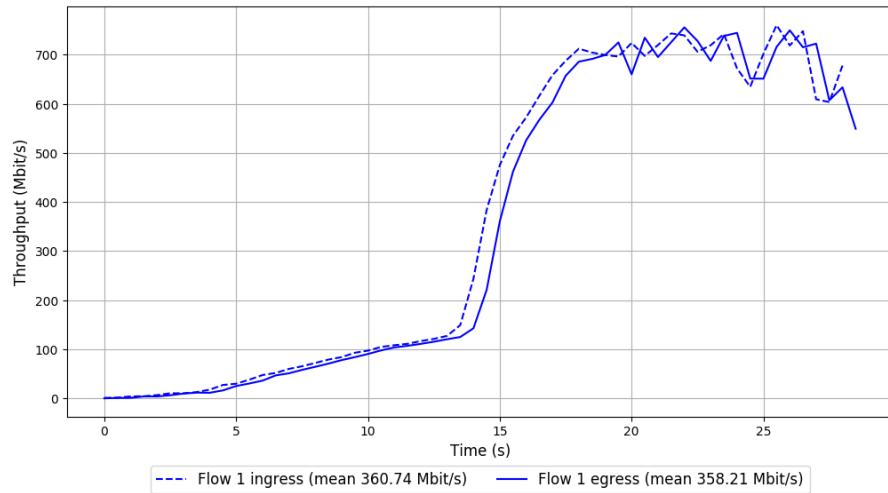


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 19:02:33
End at: 2019-01-18 19:03:03
Local clock offset: 16.821 ms
Remote clock offset: 15.564 ms

# Below is generated by plot.py at 2019-01-18 21:39:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 358.21 Mbit/s
95th percentile per-packet one-way delay: 126.790 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 358.21 Mbit/s
95th percentile per-packet one-way delay: 126.790 ms
Loss rate: 1.31%
```

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

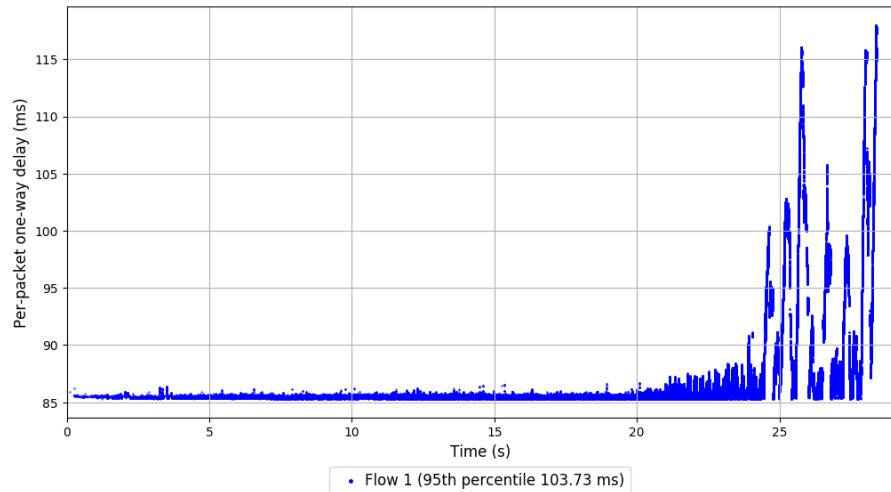
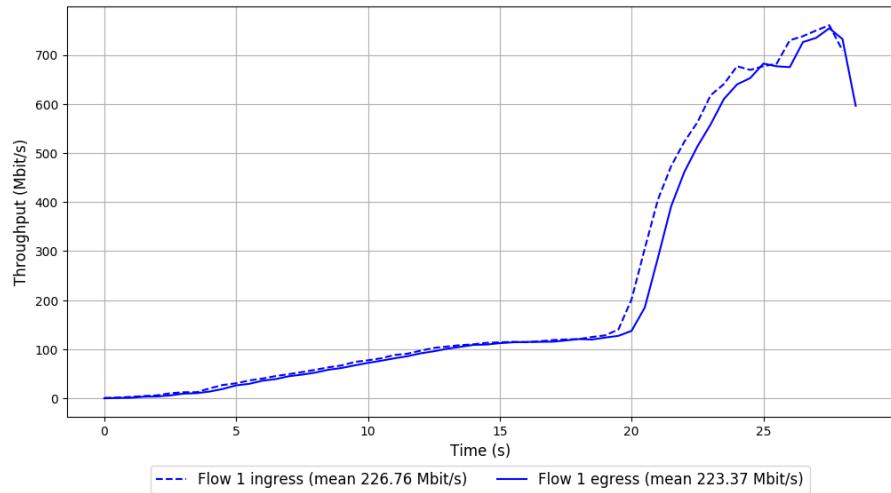


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 19:34:55
End at: 2019-01-18 19:35:25
Local clock offset: 7.879 ms
Remote clock offset: 7.221 ms

# Below is generated by plot.py at 2019-01-18 21:39:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.37 Mbit/s
95th percentile per-packet one-way delay: 103.735 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 223.37 Mbit/s
95th percentile per-packet one-way delay: 103.735 ms
Loss rate: 2.09%
```

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

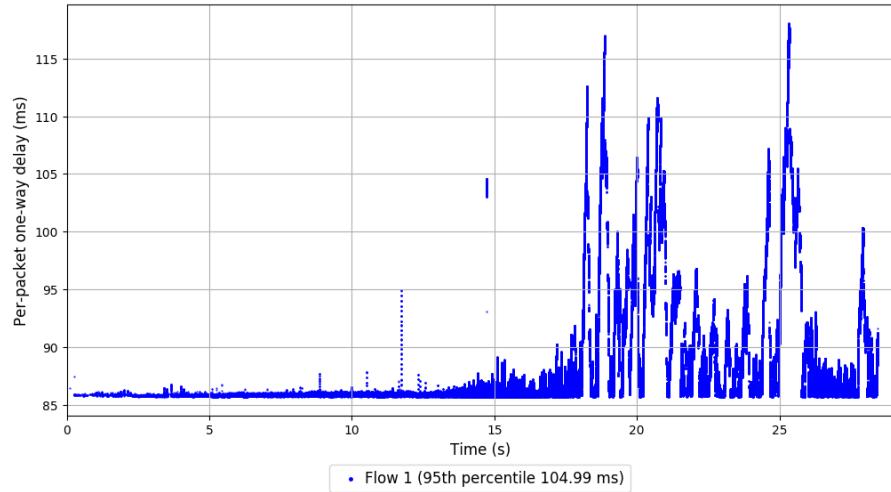
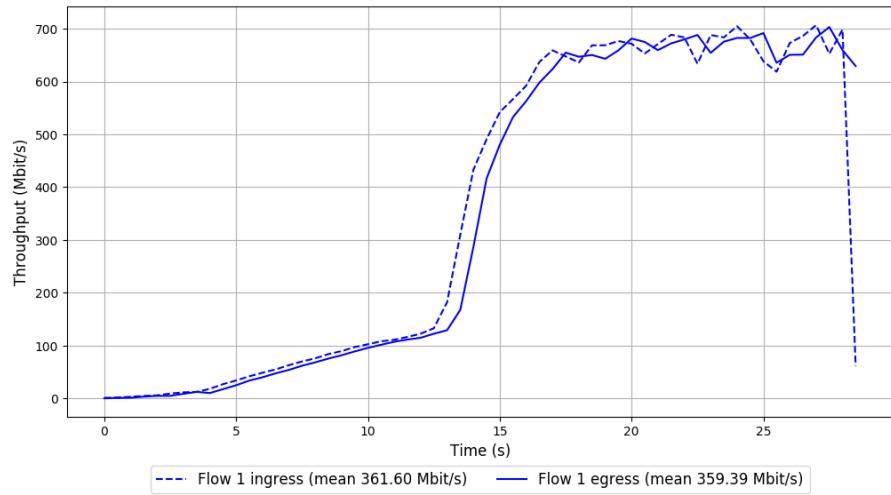


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-18 20:07:42
End at: 2019-01-18 20:08:12
Local clock offset: 2.244 ms
Remote clock offset: 3.381 ms

# Below is generated by plot.py at 2019-01-18 21:39:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.39 Mbit/s
95th percentile per-packet one-way delay: 104.991 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 359.39 Mbit/s
95th percentile per-packet one-way delay: 104.991 ms
Loss rate: 1.21%
```

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



Run 1: Statistics of Indigo-MusesT

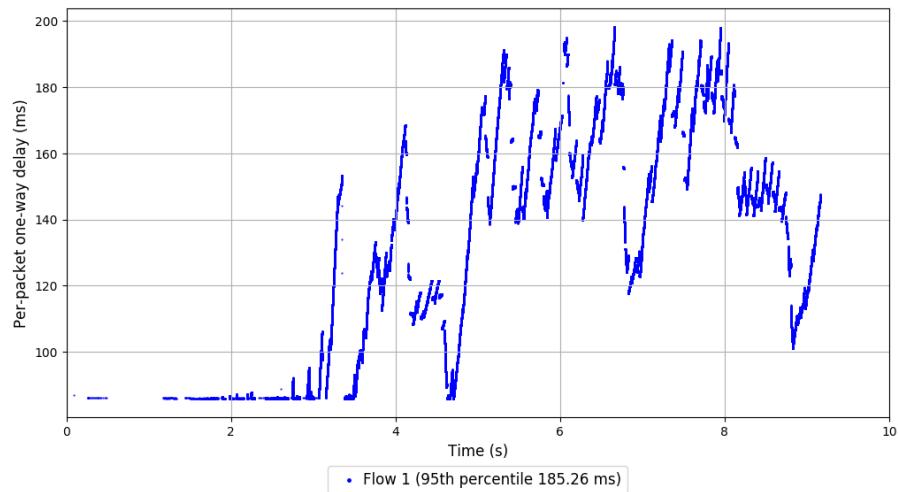
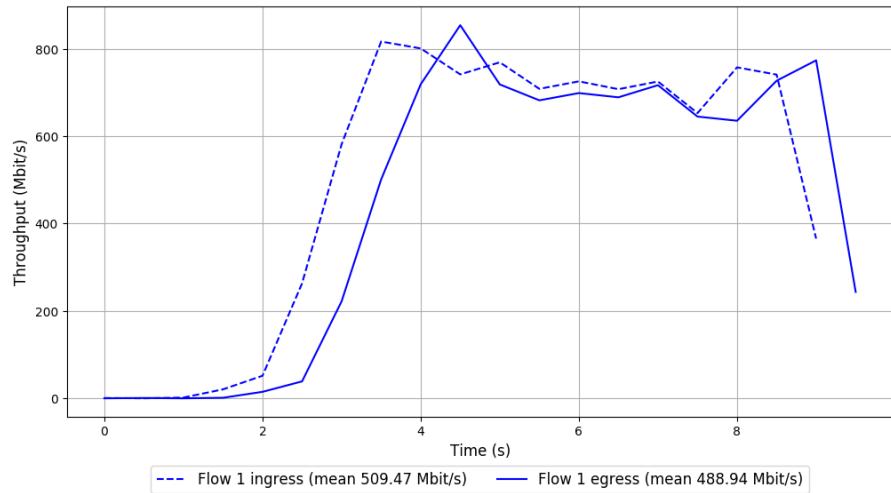
Start at: 2019-01-18 17:41:55

End at: 2019-01-18 17:42:25

Local clock offset: 10.405 ms

Remote clock offset: 8.999 ms

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

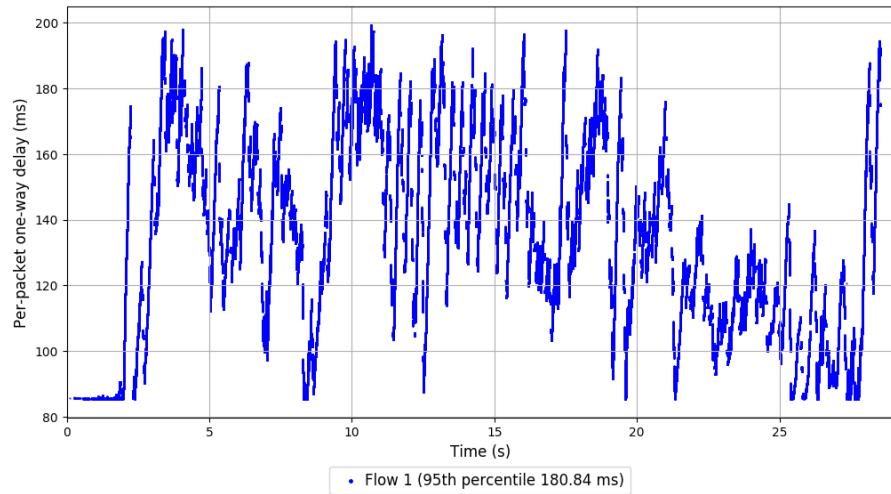
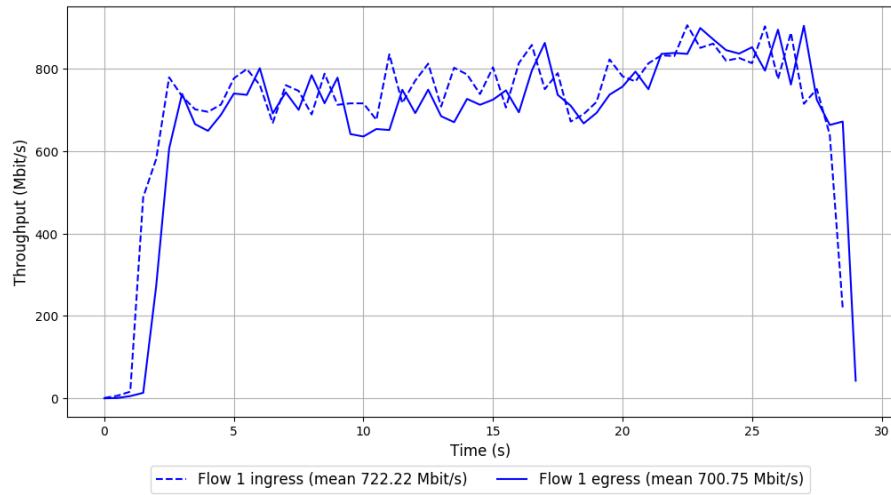


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 18:13:23
End at: 2019-01-18 18:13:53
Local clock offset: 20.962 ms
Remote clock offset: 18.842 ms

# Below is generated by plot.py at 2019-01-18 21:47:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 700.75 Mbit/s
95th percentile per-packet one-way delay: 180.837 ms
Loss rate: 3.56%
-- Flow 1:
Average throughput: 700.75 Mbit/s
95th percentile per-packet one-way delay: 180.837 ms
Loss rate: 3.56%
```

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

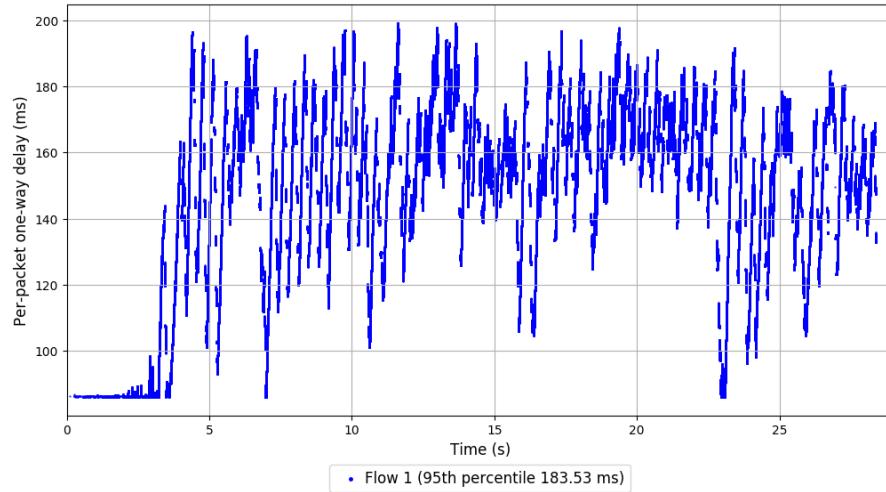
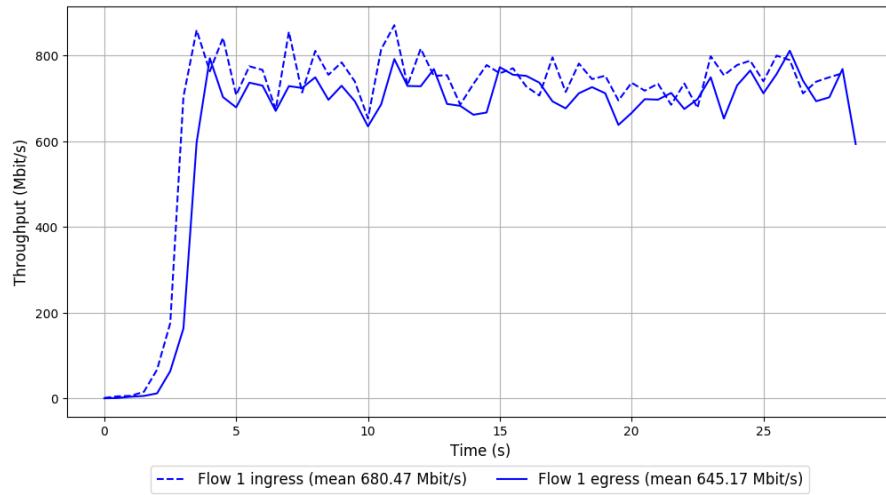


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 18:45:25
End at: 2019-01-18 18:45:55
Local clock offset: 22.994 ms
Remote clock offset: 20.21 ms

# Below is generated by plot.py at 2019-01-18 21:47:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 645.17 Mbit/s
95th percentile per-packet one-way delay: 183.525 ms
Loss rate: 5.76%
-- Flow 1:
Average throughput: 645.17 Mbit/s
95th percentile per-packet one-way delay: 183.525 ms
Loss rate: 5.76%
```

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

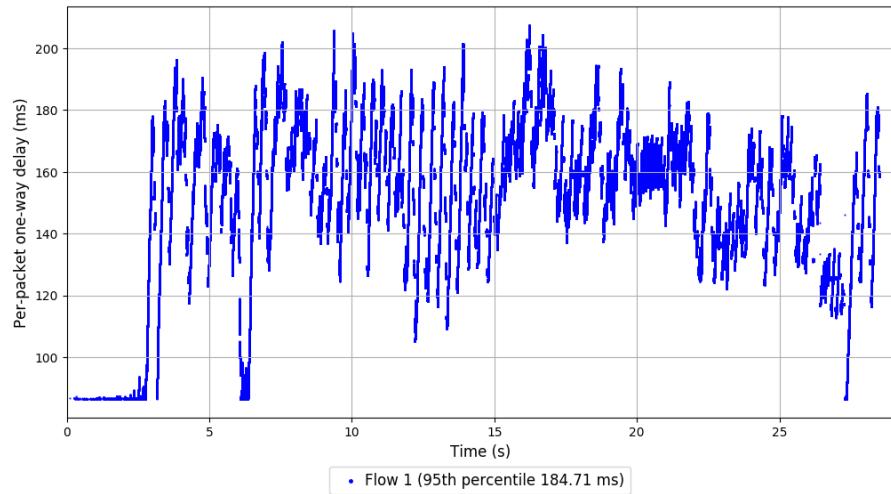
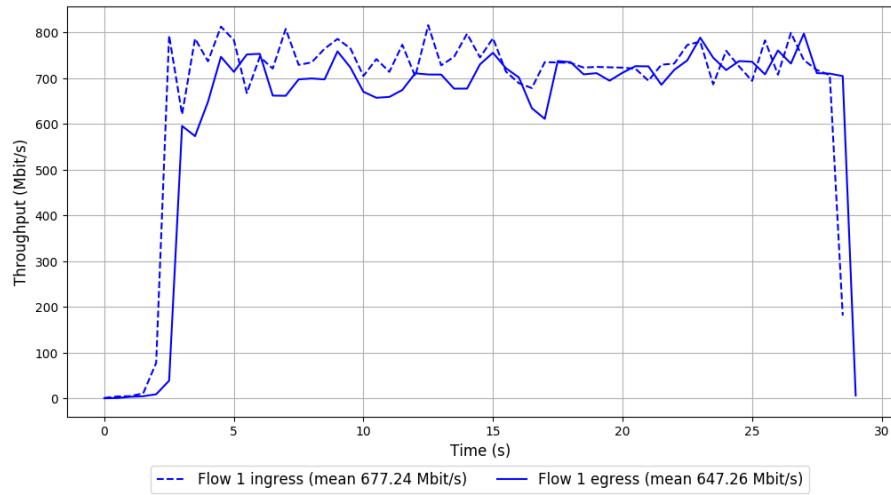


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 19:17:49
End at: 2019-01-18 19:18:19
Local clock offset: 13.674 ms
Remote clock offset: 11.406 ms

# Below is generated by plot.py at 2019-01-18 21:47:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 647.26 Mbit/s
95th percentile per-packet one-way delay: 184.707 ms
Loss rate: 5.00%
-- Flow 1:
Average throughput: 647.26 Mbit/s
95th percentile per-packet one-way delay: 184.707 ms
Loss rate: 5.00%
```

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

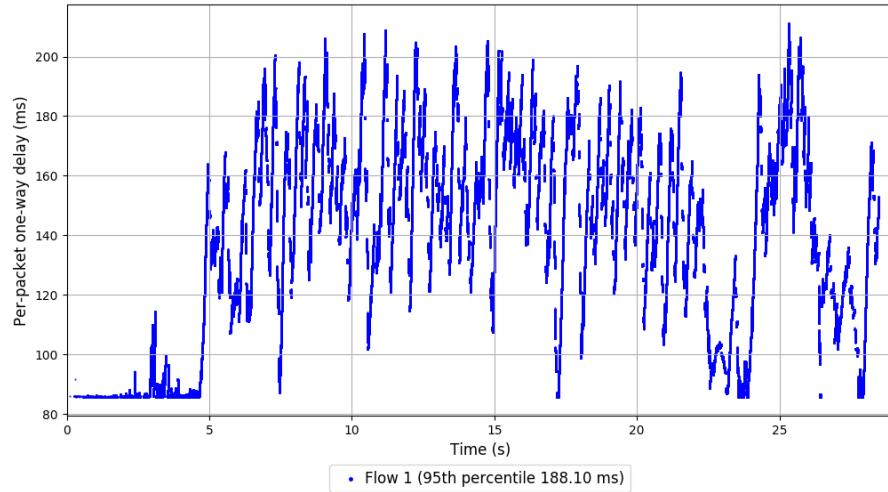
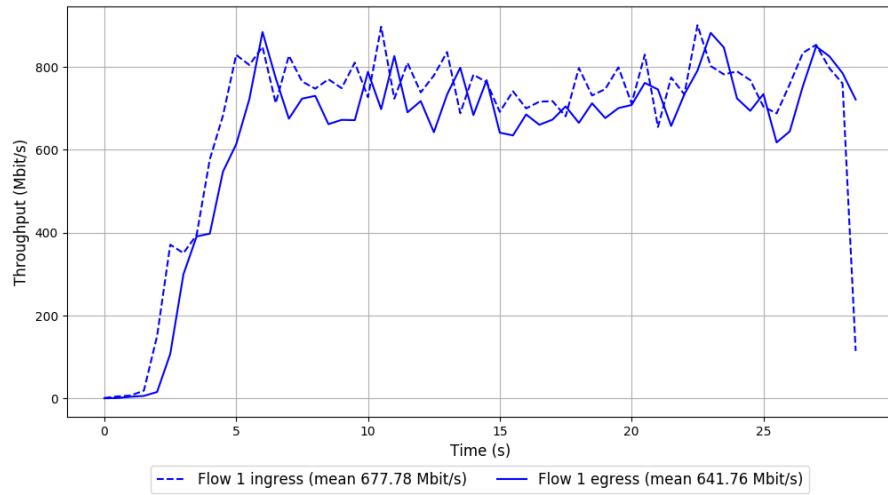


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-18 19:50:01
End at: 2019-01-18 19:50:31
Local clock offset: 7.003 ms
Remote clock offset: 6.46 ms

# Below is generated by plot.py at 2019-01-18 21:47:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 641.76 Mbit/s
95th percentile per-packet one-way delay: 188.099 ms
Loss rate: 5.86%
-- Flow 1:
Average throughput: 641.76 Mbit/s
95th percentile per-packet one-way delay: 188.099 ms
Loss rate: 5.86%
```

Run 5: Report of Indigo-MusesT — Data Link

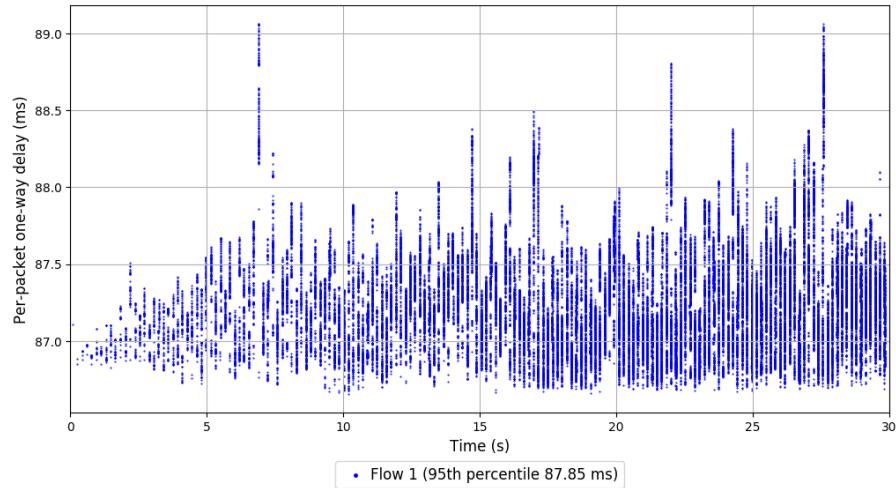
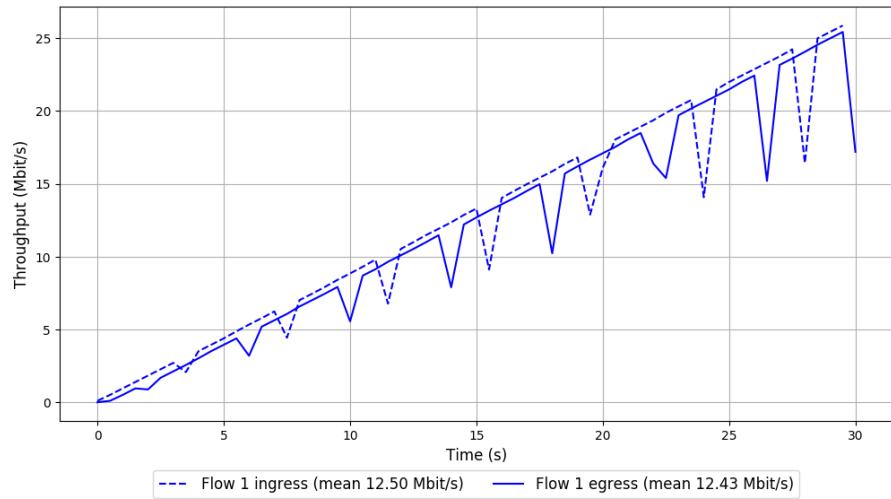


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-01-18 17:39:02
End at: 2019-01-18 17:39:32
Local clock offset: 12.161 ms
Remote clock offset: 10.008 ms

# Below is generated by plot.py at 2019-01-18 21:47:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.43 Mbit/s
95th percentile per-packet one-way delay: 87.849 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 12.43 Mbit/s
95th percentile per-packet one-way delay: 87.849 ms
Loss rate: 1.16%
```

## Run 1: Report of LEDBAT — Data Link

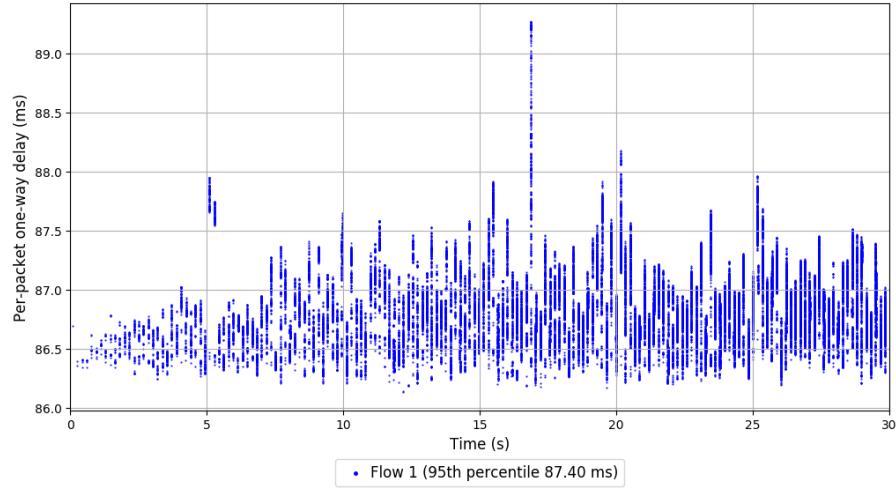
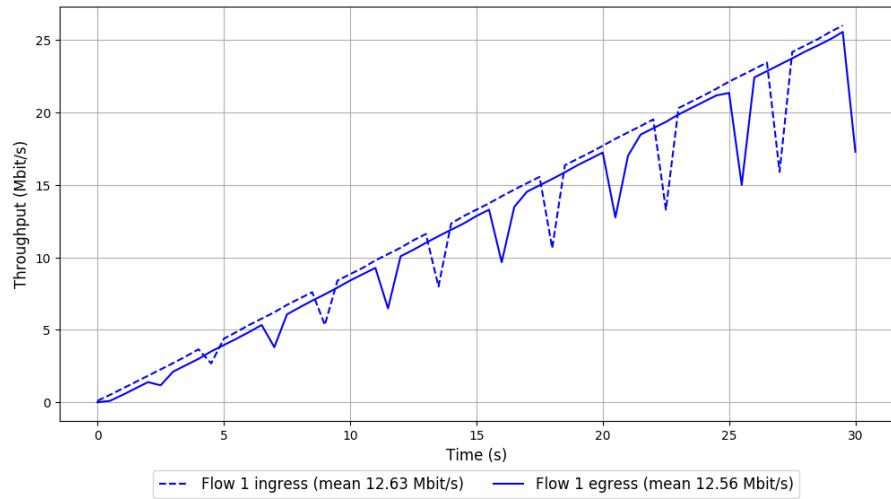


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-18 18:10:29
End at: 2019-01-18 18:10:59
Local clock offset: 21.999 ms
Remote clock offset: 19.1 ms

# Below is generated by plot.py at 2019-01-18 21:47:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 87.404 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 87.404 ms
Loss rate: 1.15%
```

## Run 2: Report of LEDBAT — Data Link

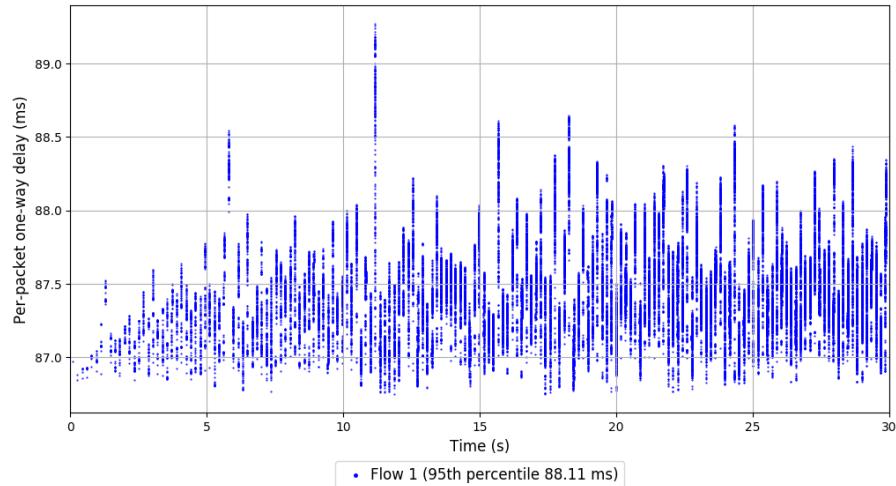
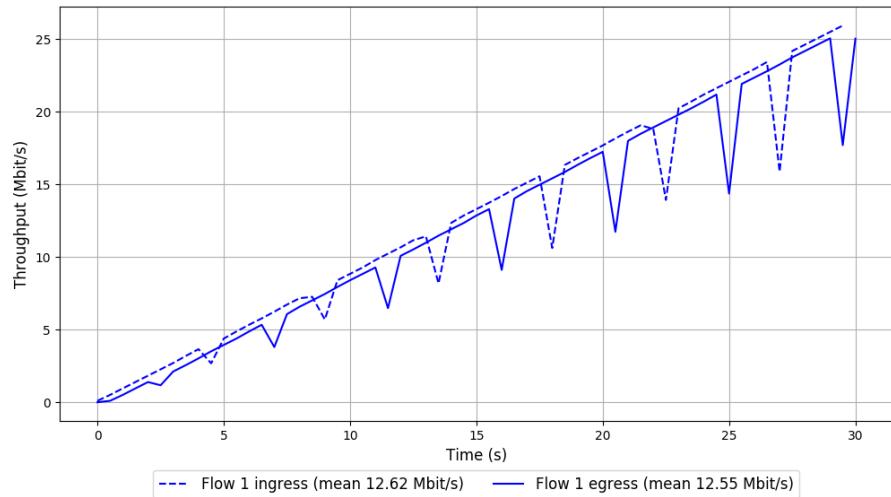


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-18 18:42:34
End at: 2019-01-18 18:43:04
Local clock offset: 28.849 ms
Remote clock offset: 25.148 ms

# Below is generated by plot.py at 2019-01-18 21:47:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.55 Mbit/s
95th percentile per-packet one-way delay: 88.107 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.55 Mbit/s
95th percentile per-packet one-way delay: 88.107 ms
Loss rate: 1.15%
```

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

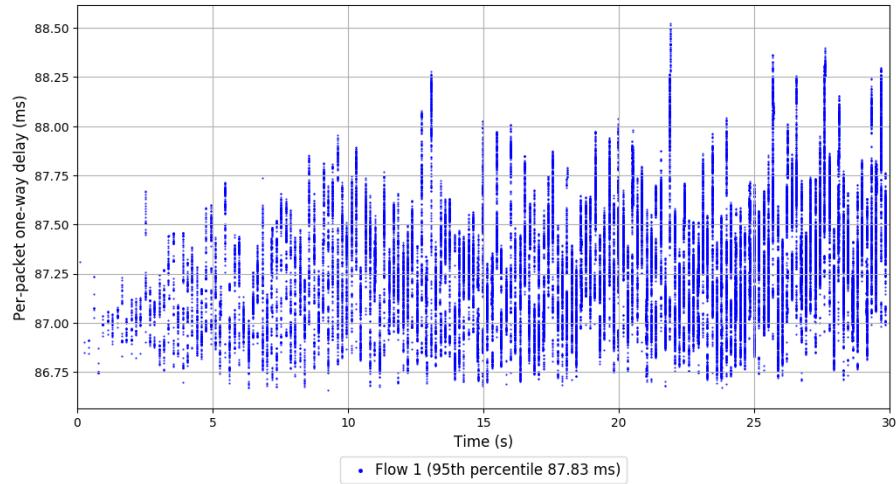
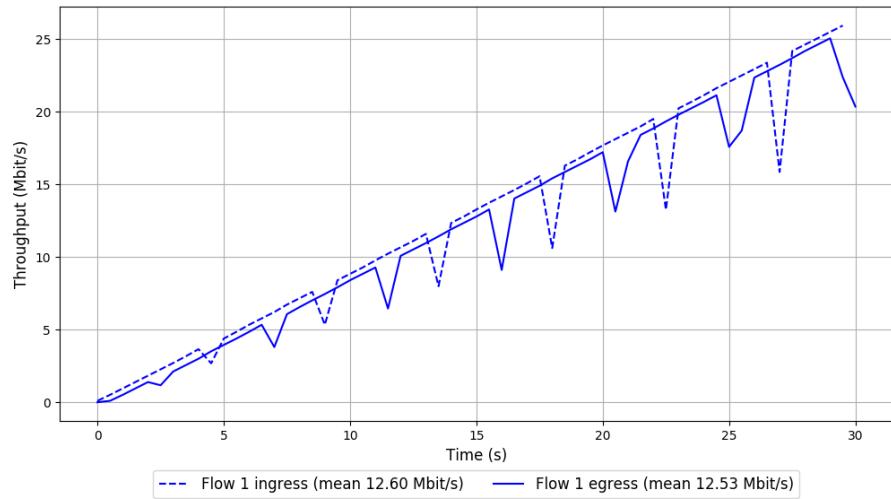


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-18 19:14:46
End at: 2019-01-18 19:15:16
Local clock offset: 17.835 ms
Remote clock offset: 15.046 ms

# Below is generated by plot.py at 2019-01-18 21:47:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 87.832 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 87.832 ms
Loss rate: 1.15%
```

Run 4: Report of LEDBAT — Data Link

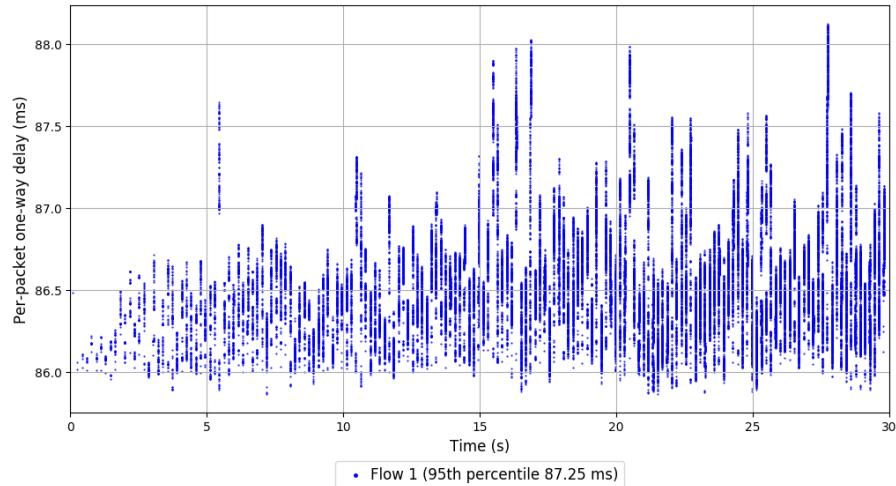
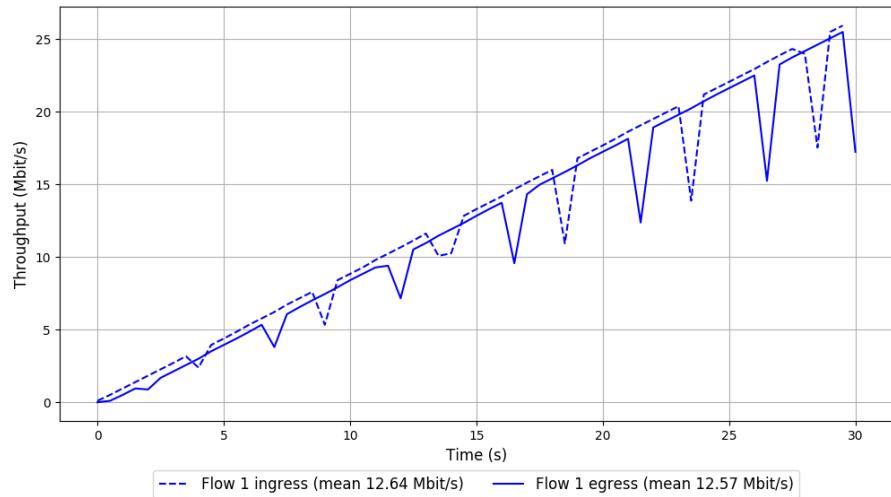


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-18 19:46:56
End at: 2019-01-18 19:47:26
Local clock offset: 10.002 ms
Remote clock offset: 8.741 ms

# Below is generated by plot.py at 2019-01-18 21:47:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 87.251 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 87.251 ms
Loss rate: 1.15%
```

Run 5: Report of LEDBAT — Data Link

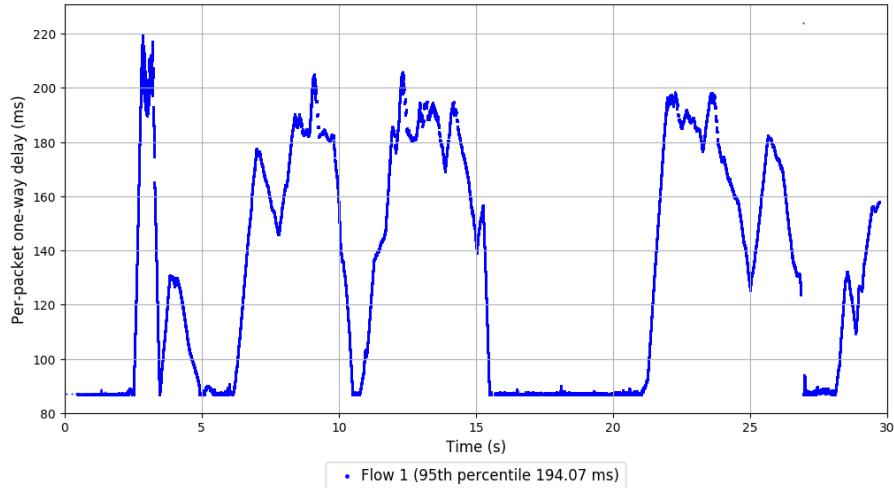
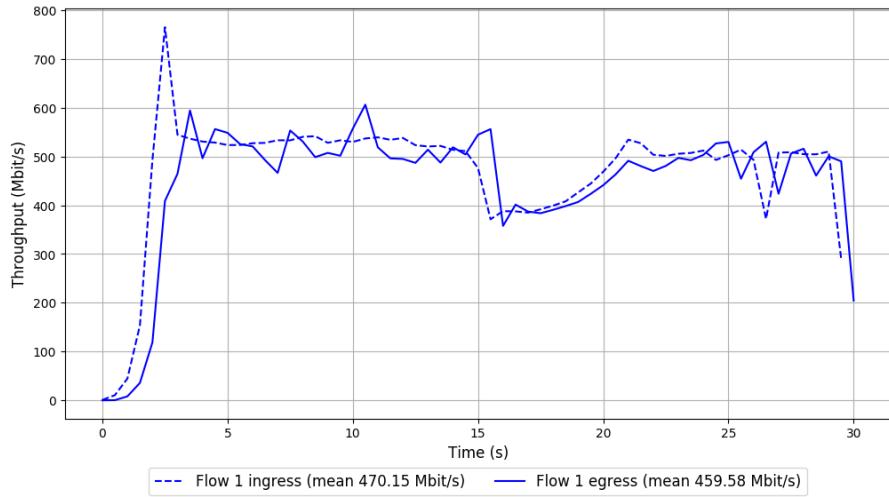


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-18 17:47:58
End at: 2019-01-18 17:48:28
Local clock offset: 18.129 ms
Remote clock offset: 14.985 ms

# Below is generated by plot.py at 2019-01-18 21:55:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 459.58 Mbit/s
95th percentile per-packet one-way delay: 194.069 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 459.58 Mbit/s
95th percentile per-packet one-way delay: 194.069 ms
Loss rate: 2.82%
```

Run 1: Report of PCC-Allegro — Data Link

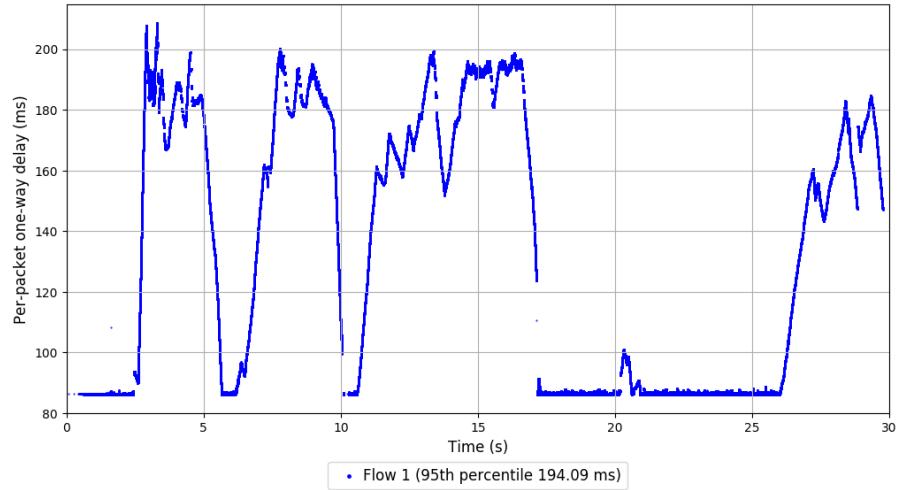
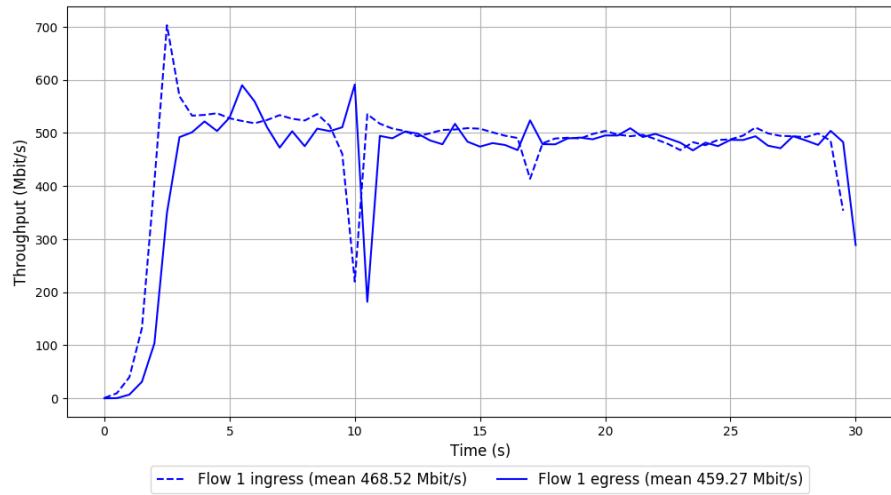


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-18 18:19:54
End at: 2019-01-18 18:20:24
Local clock offset: 24.21 ms
Remote clock offset: 21.496 ms

# Below is generated by plot.py at 2019-01-18 21:55:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 459.27 Mbit/s
95th percentile per-packet one-way delay: 194.085 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 459.27 Mbit/s
95th percentile per-packet one-way delay: 194.085 ms
Loss rate: 2.54%
```

Run 2: Report of PCC-Allegro — Data Link

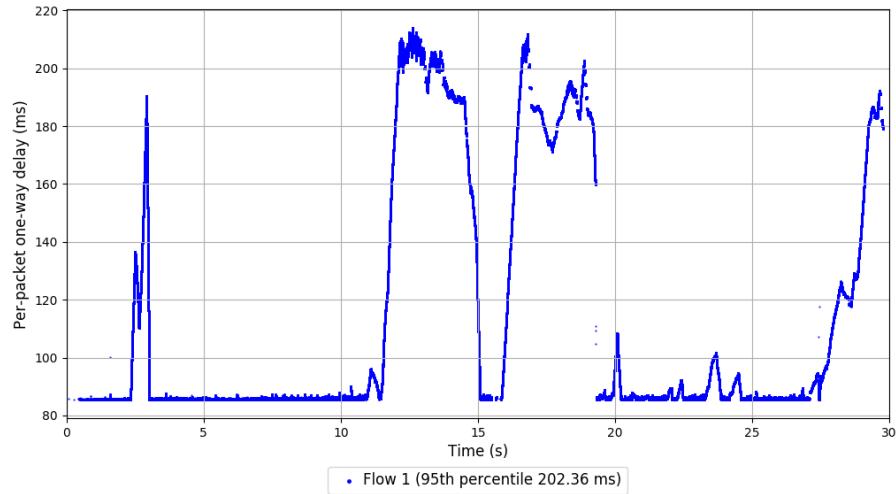
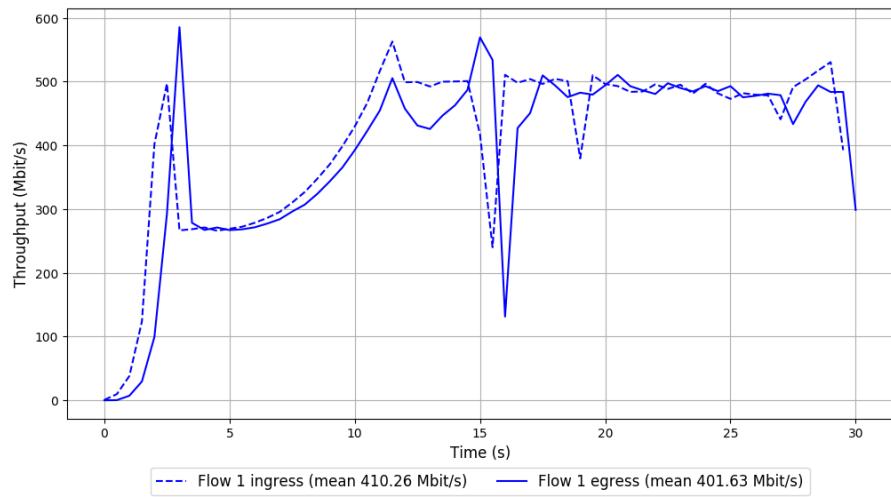


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-18 18:51:57
End at: 2019-01-18 18:52:27
Local clock offset: 16.597 ms
Remote clock offset: 15.031 ms

# Below is generated by plot.py at 2019-01-18 21:55:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 401.63 Mbit/s
95th percentile per-packet one-way delay: 202.356 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 401.63 Mbit/s
95th percentile per-packet one-way delay: 202.356 ms
Loss rate: 2.67%
```

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

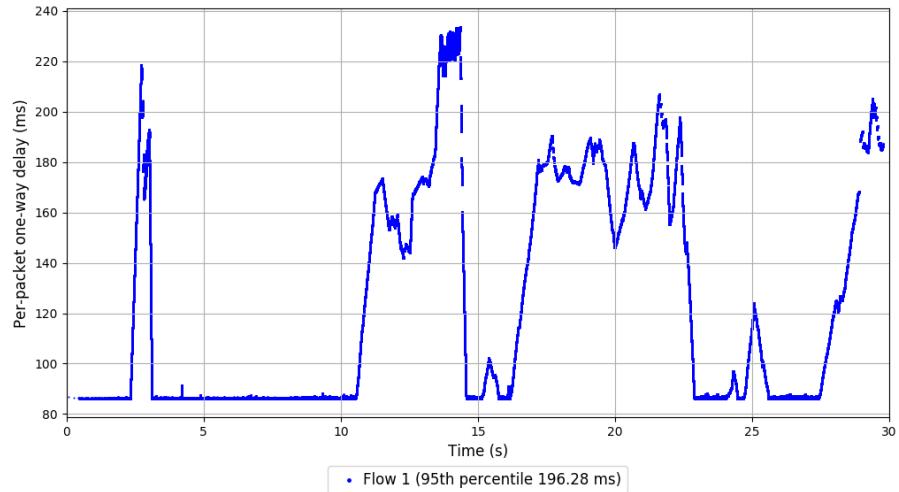
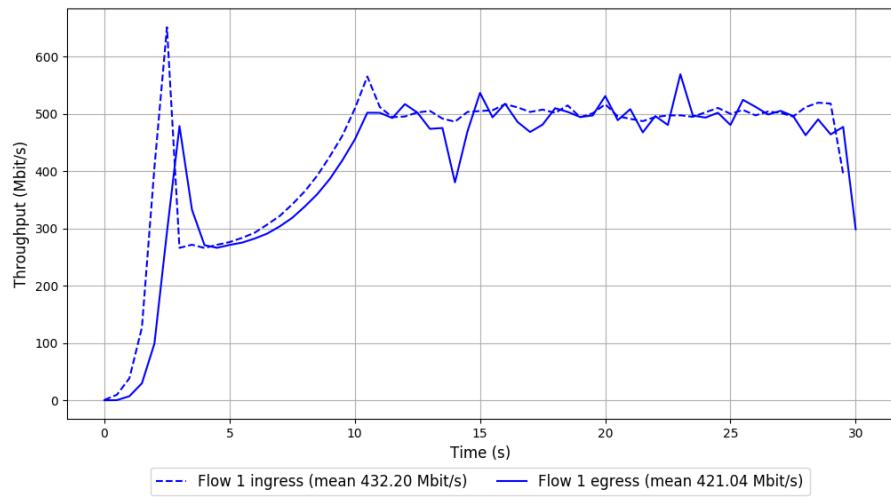


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-18 19:24:33
End at: 2019-01-18 19:25:03
Local clock offset: 9.256 ms
Remote clock offset: 7.776 ms

# Below is generated by plot.py at 2019-01-18 21:55:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 421.04 Mbit/s
95th percentile per-packet one-way delay: 196.284 ms
Loss rate: 3.15%
-- Flow 1:
Average throughput: 421.04 Mbit/s
95th percentile per-packet one-way delay: 196.284 ms
Loss rate: 3.15%
```

Run 4: Report of PCC-Allegro — Data Link

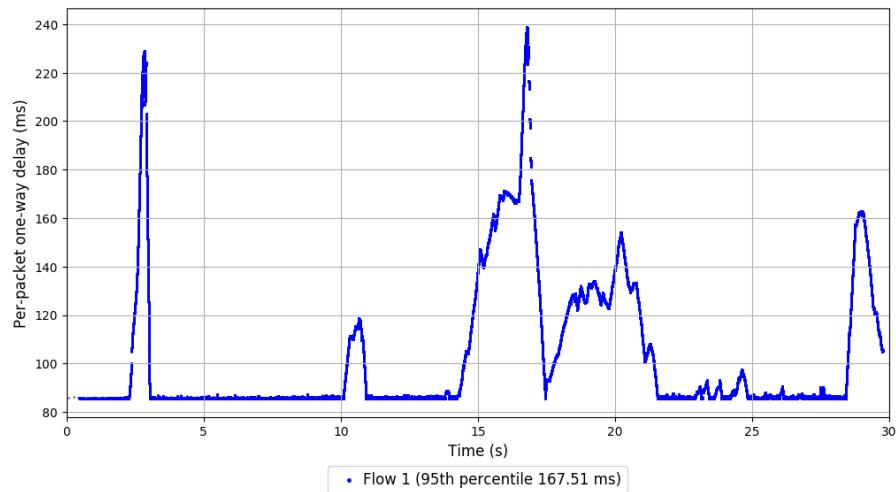
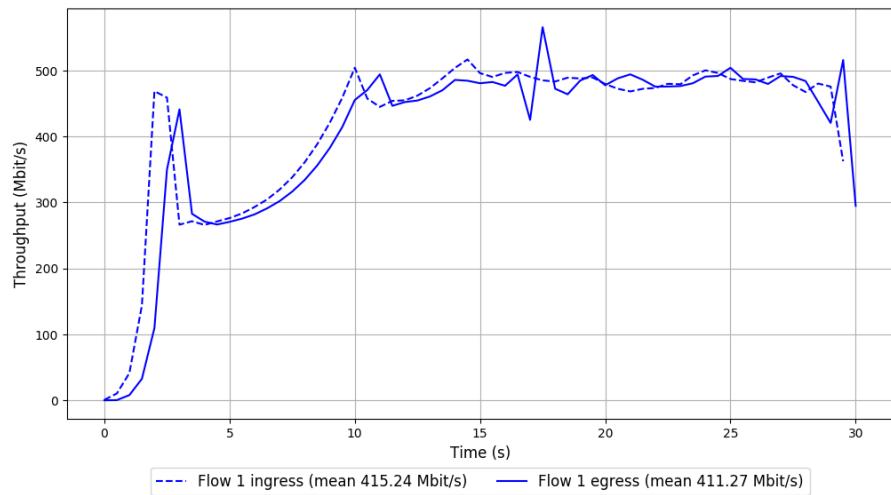


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-18 19:56:42
End at: 2019-01-18 19:57:12
Local clock offset: 3.705 ms
Remote clock offset: 4.063 ms

# Below is generated by plot.py at 2019-01-18 22:03:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 411.27 Mbit/s
95th percentile per-packet one-way delay: 167.512 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 411.27 Mbit/s
95th percentile per-packet one-way delay: 167.512 ms
Loss rate: 1.53%
```

Run 5: Report of PCC-Allegro — Data Link

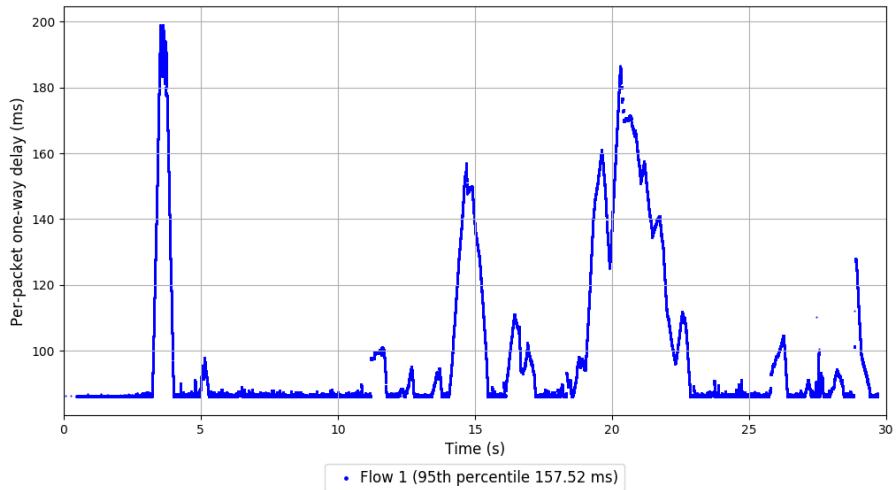
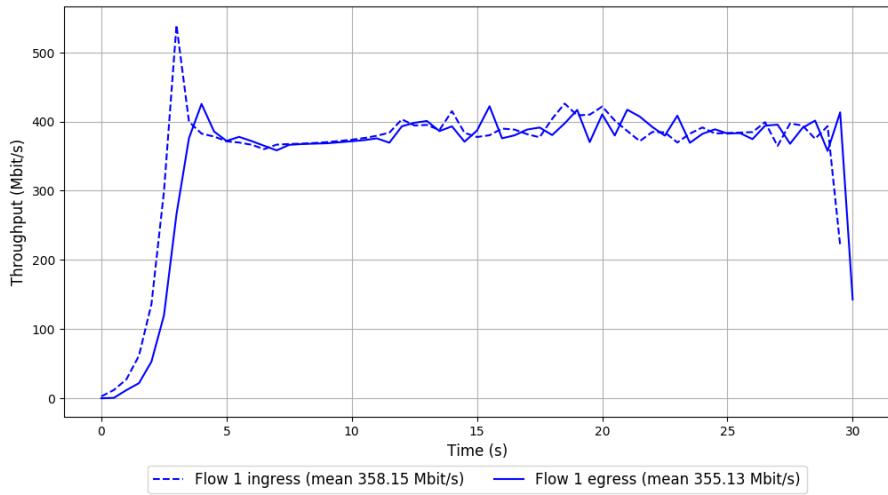


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-18 17:40:13
End at: 2019-01-18 17:40:43
Local clock offset: 9.775 ms
Remote clock offset: 8.396 ms

# Below is generated by plot.py at 2019-01-18 22:03:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 355.13 Mbit/s
95th percentile per-packet one-way delay: 157.523 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 355.13 Mbit/s
95th percentile per-packet one-way delay: 157.523 ms
Loss rate: 1.42%
```

Run 1: Report of PCC-Expr — Data Link

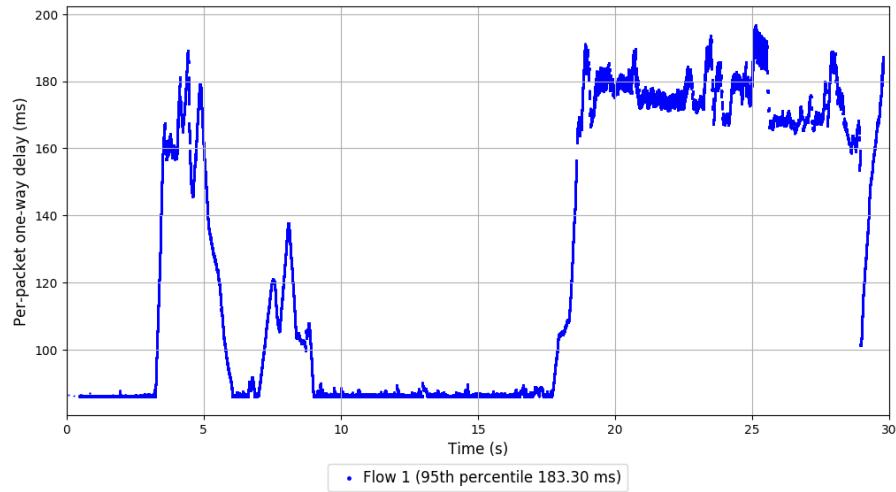
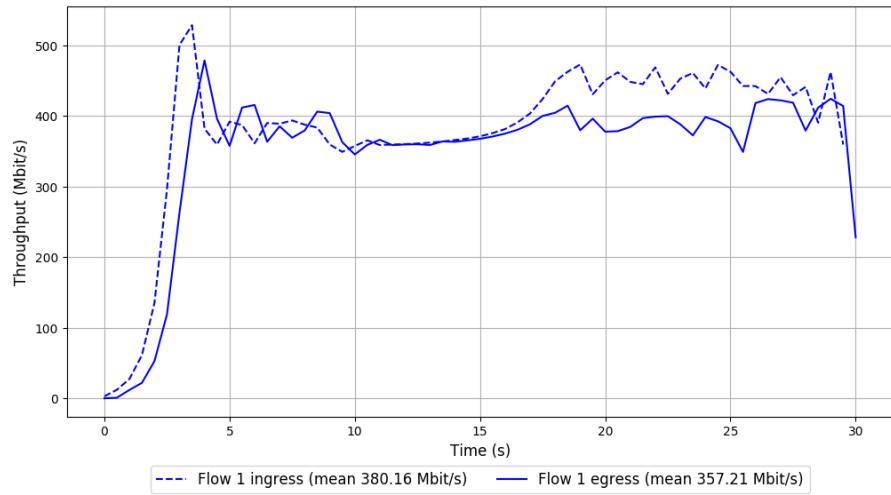


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-18 18:11:39
End at: 2019-01-18 18:12:09
Local clock offset: 20.917 ms
Remote clock offset: 18.958 ms

# Below is generated by plot.py at 2019-01-18 22:03:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 357.21 Mbit/s
95th percentile per-packet one-way delay: 183.299 ms
Loss rate: 6.59%
-- Flow 1:
Average throughput: 357.21 Mbit/s
95th percentile per-packet one-way delay: 183.299 ms
Loss rate: 6.59%
```

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

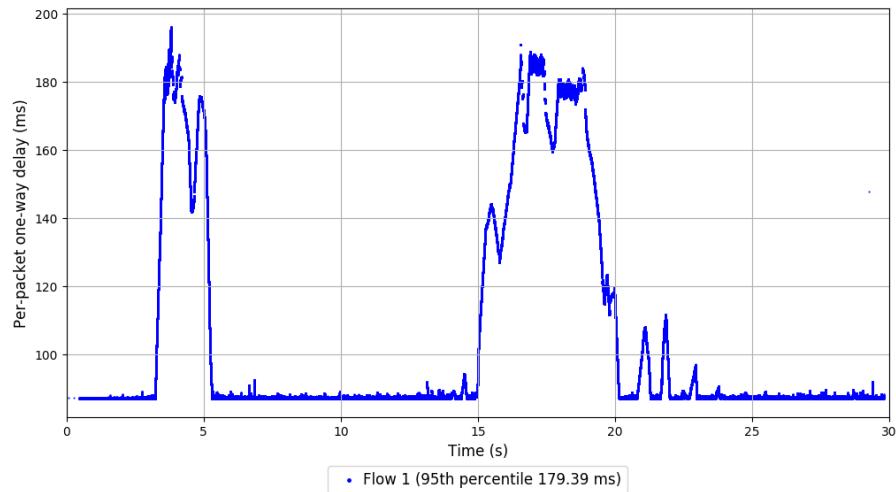
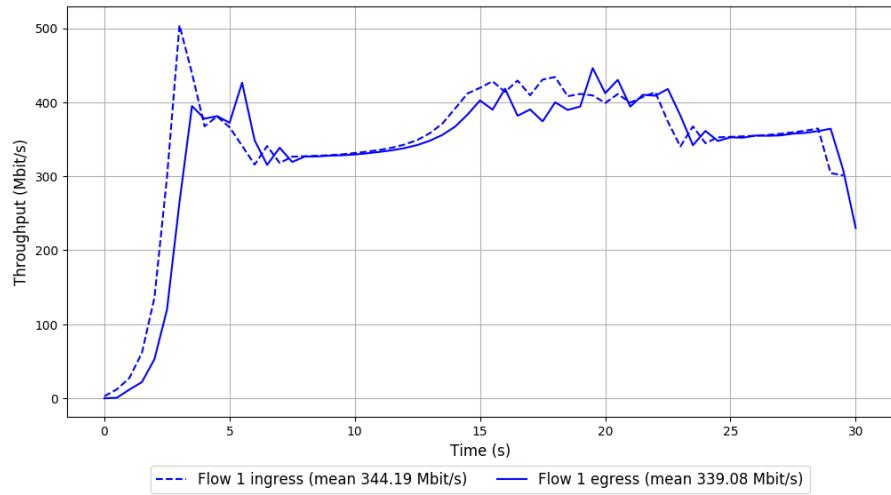


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-18 18:43:44
End at: 2019-01-18 18:44:14
Local clock offset: 26.576 ms
Remote clock offset: 22.752 ms

# Below is generated by plot.py at 2019-01-18 22:03:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.08 Mbit/s
95th percentile per-packet one-way delay: 179.388 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 339.08 Mbit/s
95th percentile per-packet one-way delay: 179.388 ms
Loss rate: 2.05%
```

Run 3: Report of PCC-Expr — Data Link

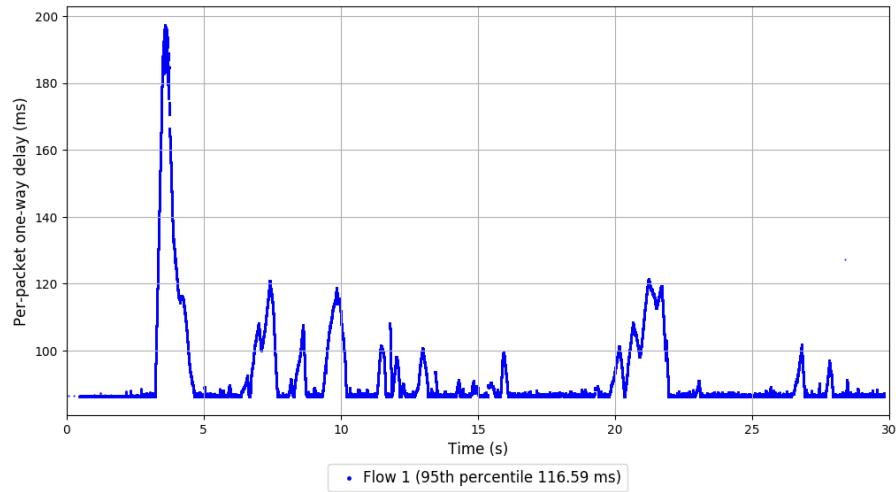
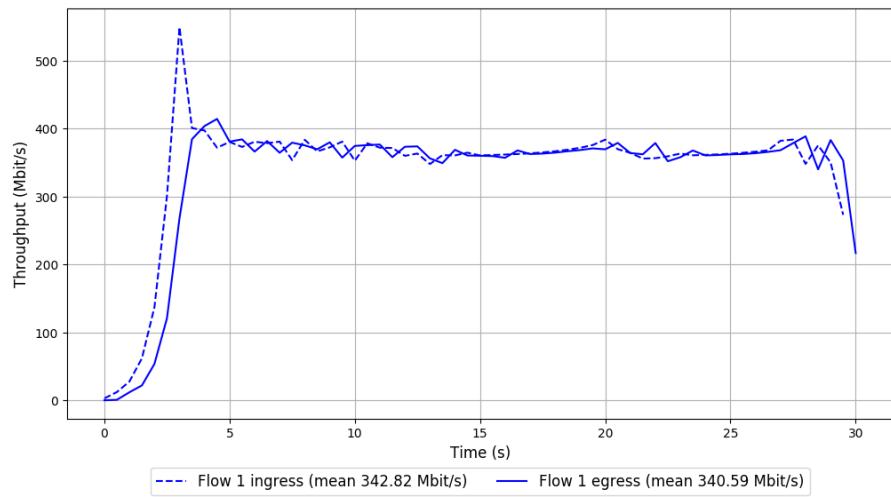


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-18 19:15:57
End at: 2019-01-18 19:16:27
Local clock offset: 15.684 ms
Remote clock offset: 13.501 ms

# Below is generated by plot.py at 2019-01-18 22:08:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 340.59 Mbit/s
95th percentile per-packet one-way delay: 116.587 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 340.59 Mbit/s
95th percentile per-packet one-way delay: 116.587 ms
Loss rate: 1.23%
```

Run 4: Report of PCC-Expr — Data Link

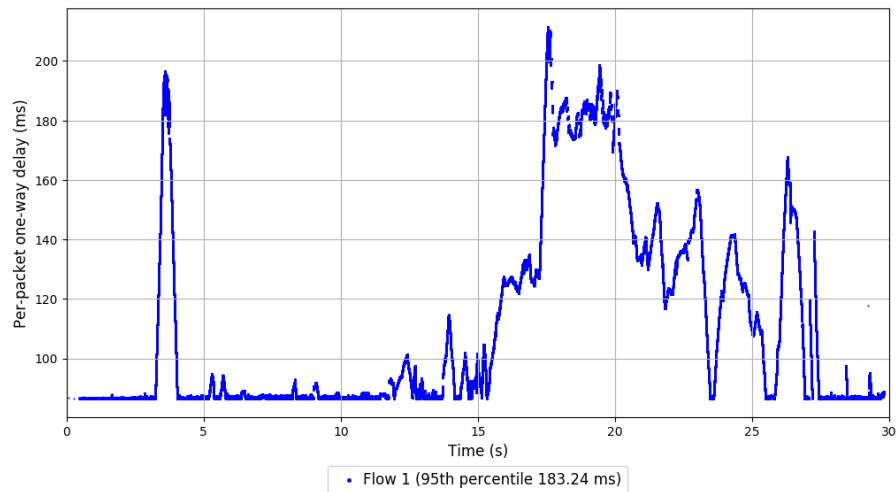
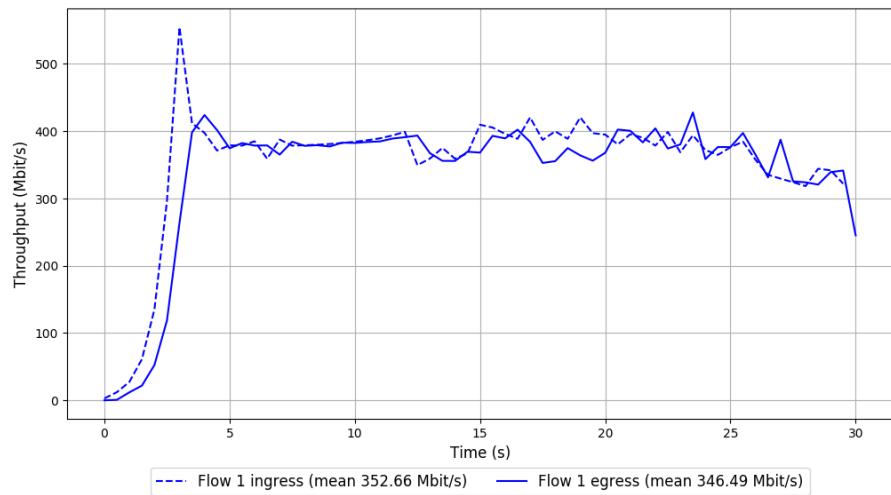


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-18 19:48:07
End at: 2019-01-18 19:48:37
Local clock offset: 9.12 ms
Remote clock offset: 7.76 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 346.49 Mbit/s
95th percentile per-packet one-way delay: 183.243 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 346.49 Mbit/s
95th percentile per-packet one-way delay: 183.243 ms
Loss rate: 2.32%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

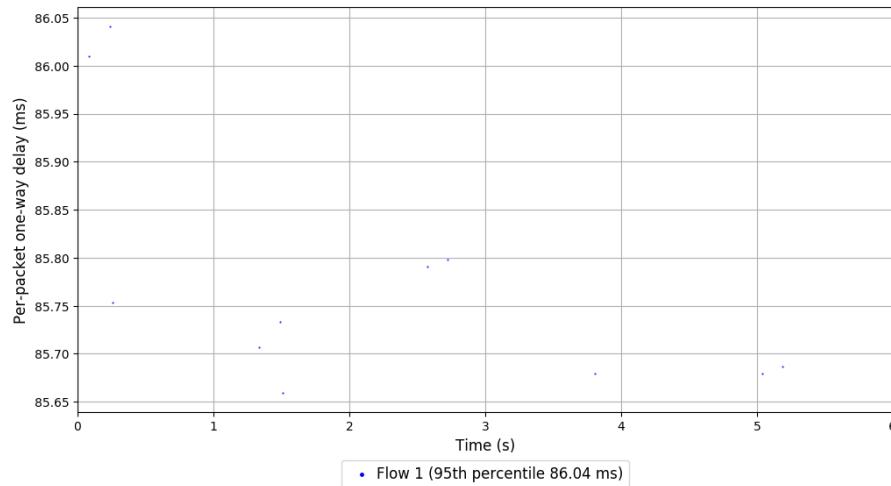
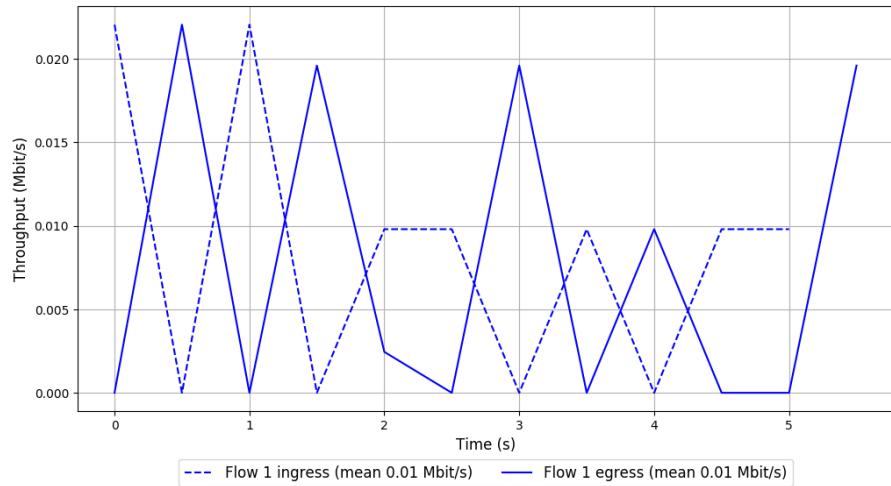
Start at: 2019-01-18 17:51:14

End at: 2019-01-18 17:51:44

Local clock offset: 13.993 ms

Remote clock offset: 12.55 ms

Run 1: Report of QUIC Cubic — Data Link

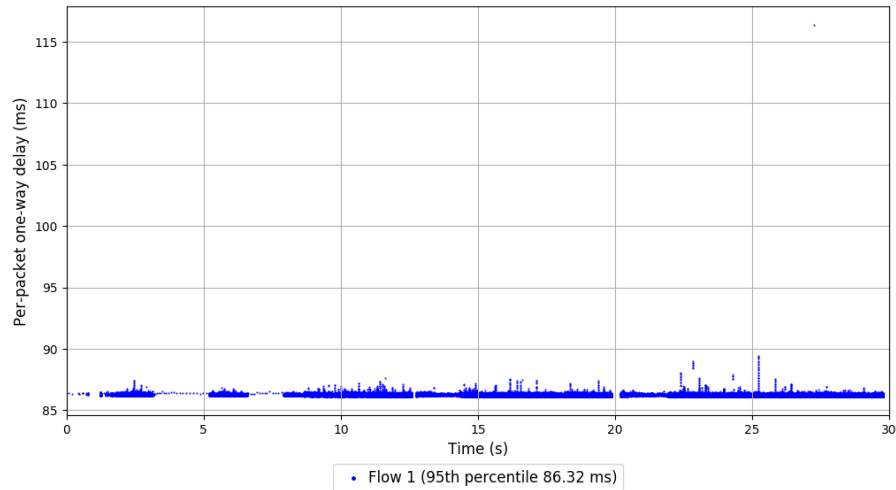
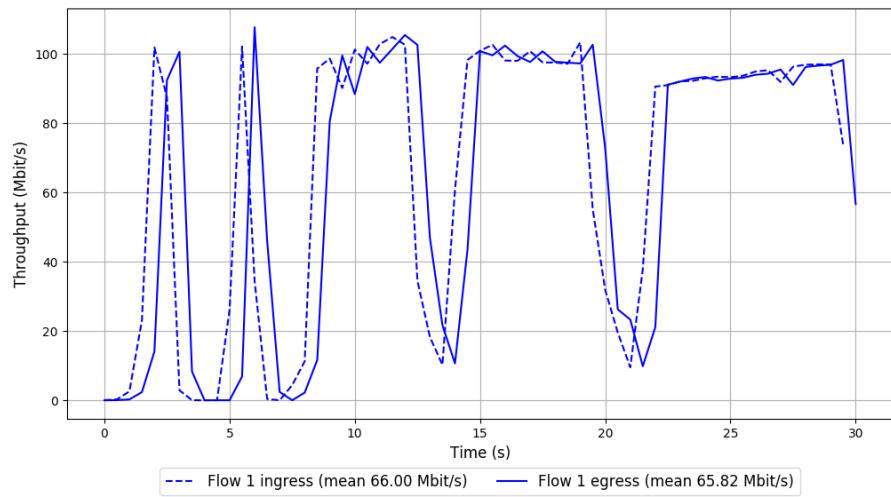


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-18 18:23:08
End at: 2019-01-18 18:23:38
Local clock offset: 26.967 ms
Remote clock offset: 23.861 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.82 Mbit/s
95th percentile per-packet one-way delay: 86.319 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 65.82 Mbit/s
95th percentile per-packet one-way delay: 86.319 ms
Loss rate: 0.85%
```

Run 2: Report of QUIC Cubic — Data Link

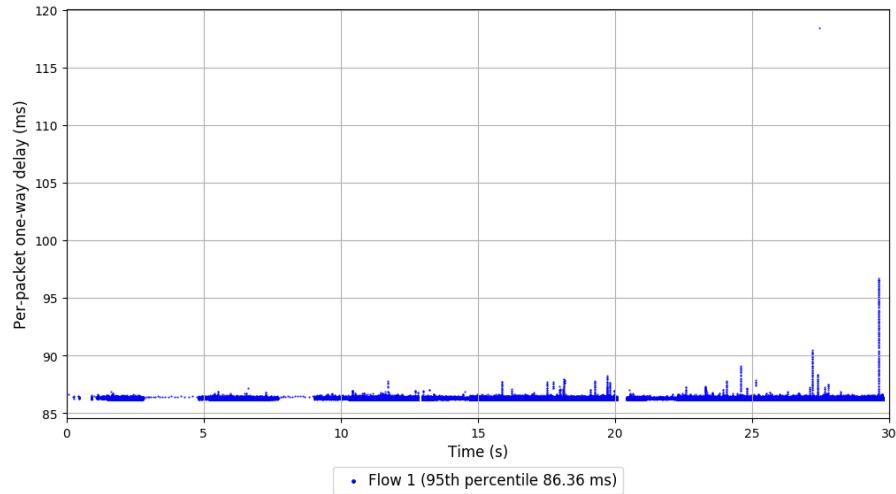
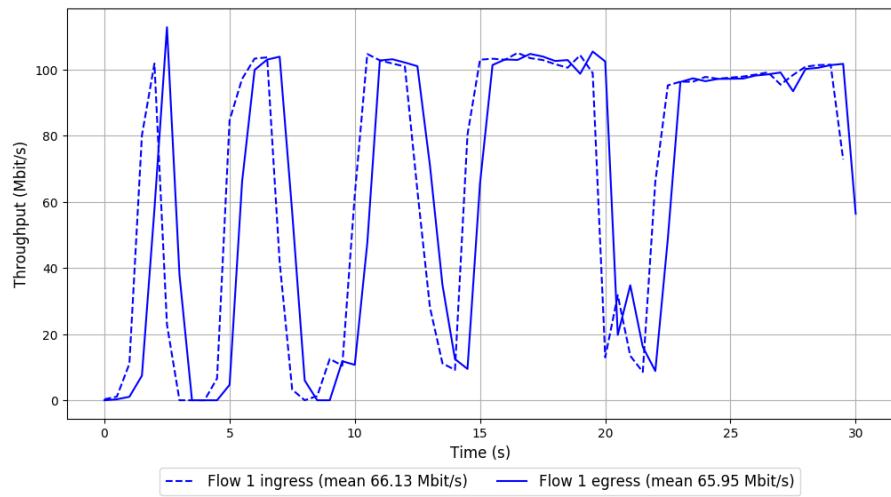


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-18 18:55:21
End at: 2019-01-18 18:55:51
Local clock offset: 15.937 ms
Remote clock offset: 14.387 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.95 Mbit/s
95th percentile per-packet one-way delay: 86.356 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 65.95 Mbit/s
95th percentile per-packet one-way delay: 86.356 ms
Loss rate: 0.85%
```

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

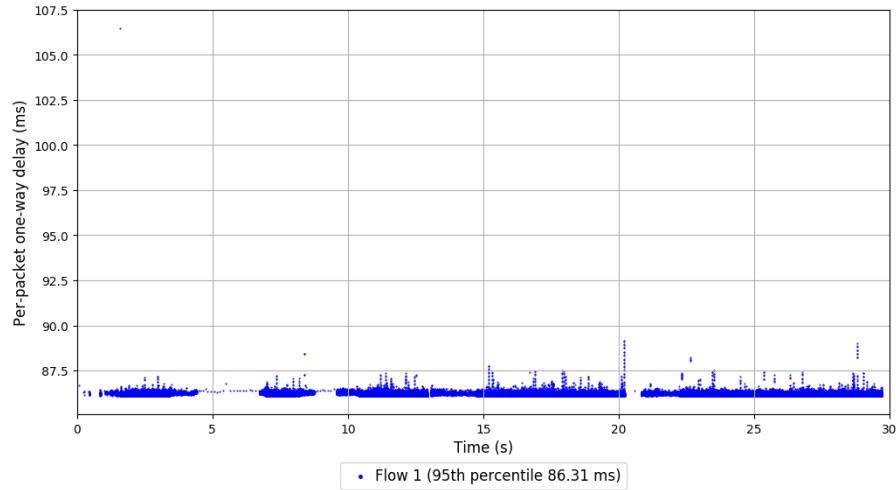
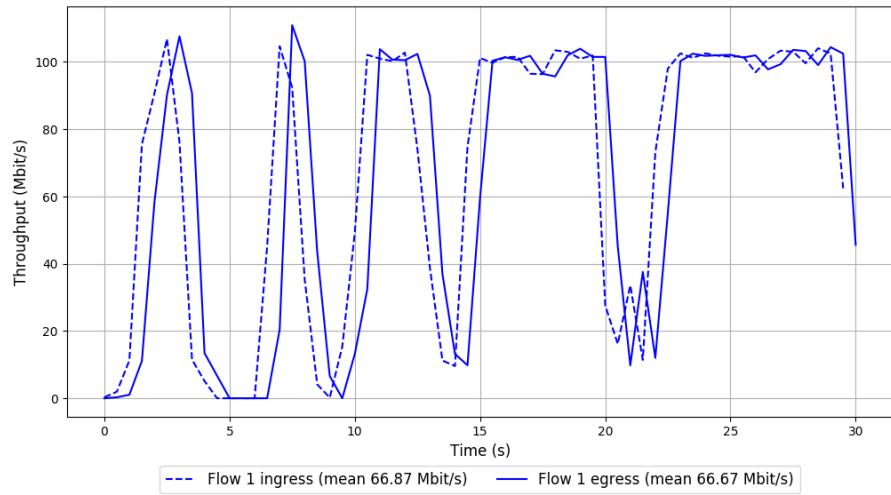


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-18 19:27:45
End at: 2019-01-18 19:28:15
Local clock offset: 8.586 ms
Remote clock offset: 7.129 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.67 Mbit/s
95th percentile per-packet one-way delay: 86.313 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 66.67 Mbit/s
95th percentile per-packet one-way delay: 86.313 ms
Loss rate: 0.87%
```

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

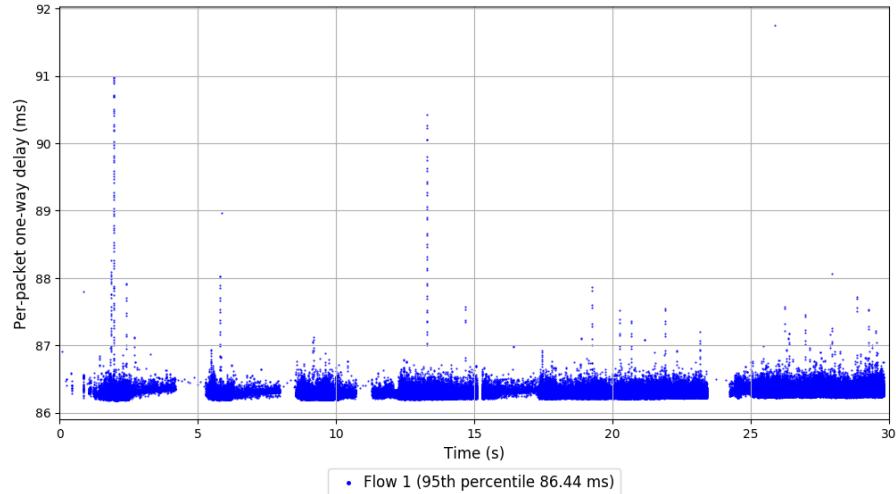
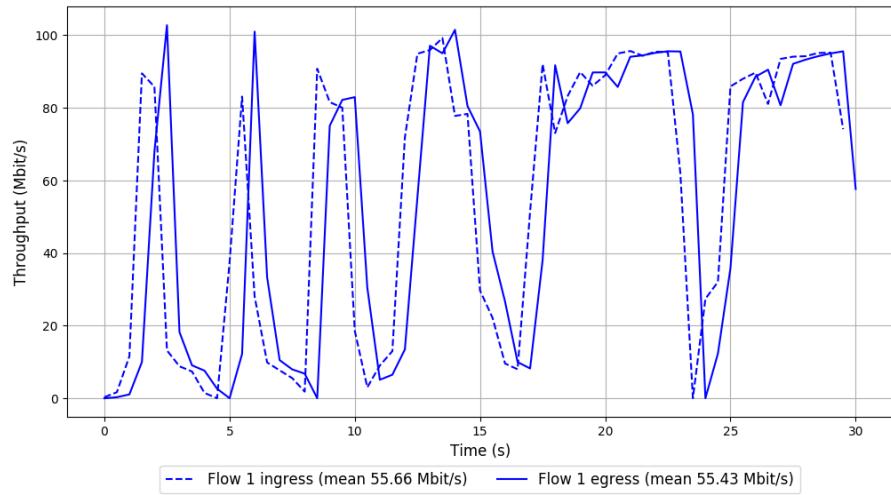


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-18 20:00:07
End at: 2019-01-18 20:00:37
Local clock offset: 3.135 ms
Remote clock offset: 3.52 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.43 Mbit/s
95th percentile per-packet one-way delay: 86.437 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 55.43 Mbit/s
95th percentile per-packet one-way delay: 86.437 ms
Loss rate: 0.99%
```

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

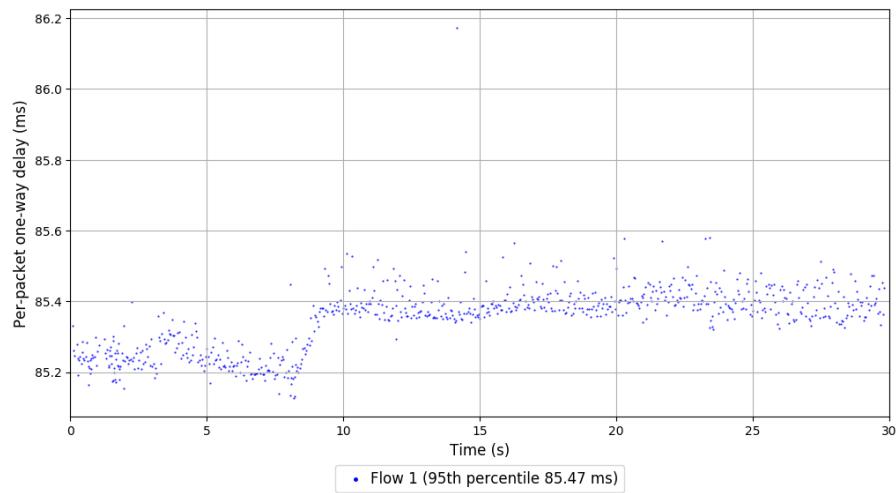
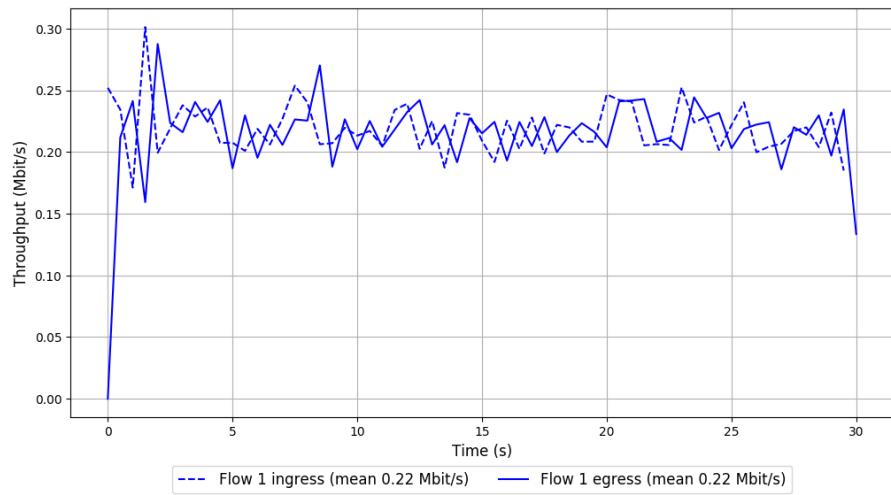


```
Run 1: Statistics of SCReAM

Start at: 2019-01-18 17:31:44
End at: 2019-01-18 17:32:14
Local clock offset: 3.687 ms
Remote clock offset: 3.792 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.467 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.467 ms
Loss rate: 0.64%
```

Run 1: Report of SCReAM — Data Link

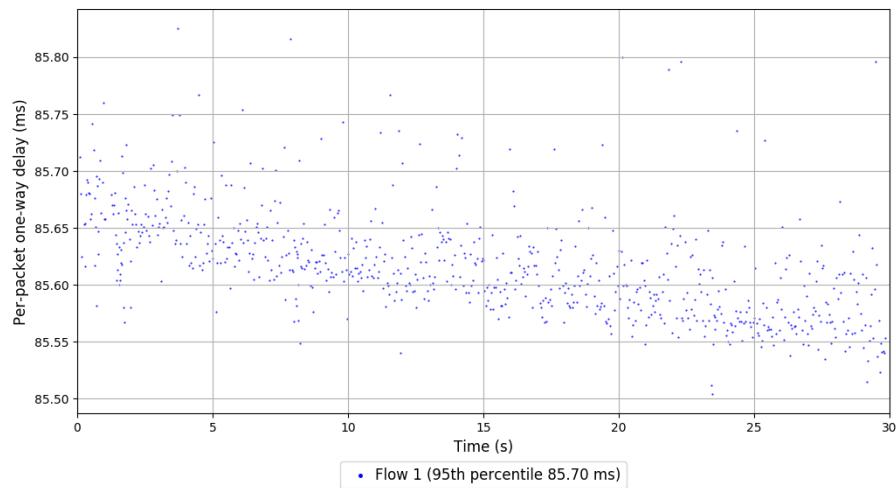
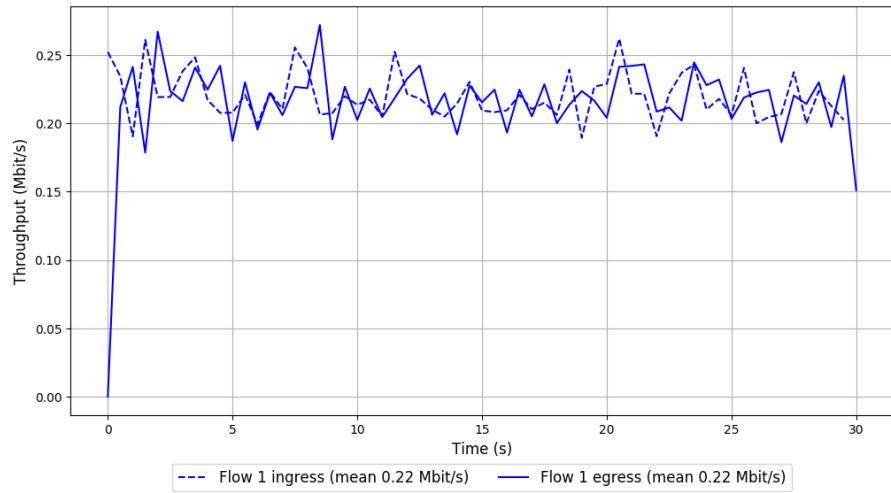


Run 2: Statistics of SCReAM

```
Start at: 2019-01-18 18:03:11
End at: 2019-01-18 18:03:41
Local clock offset: 27.298 ms
Remote clock offset: 24.348 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.703 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.703 ms
Loss rate: 0.64%
```

## Run 2: Report of SCReAM — Data Link

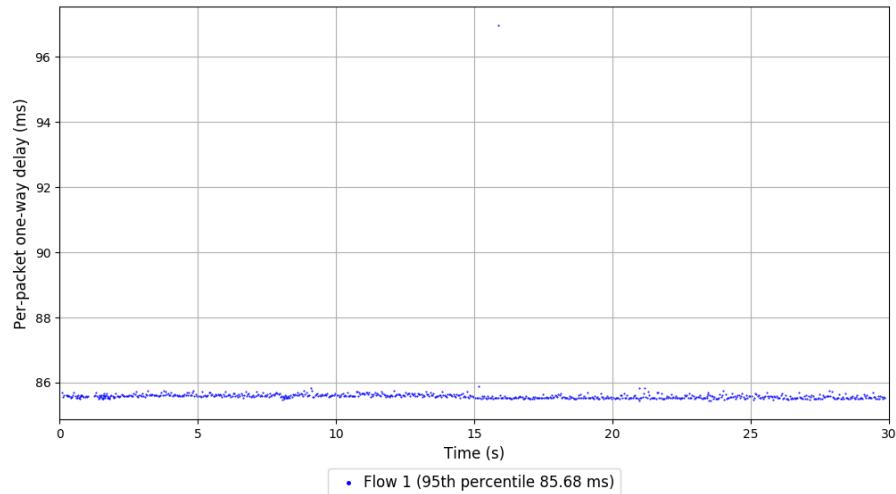
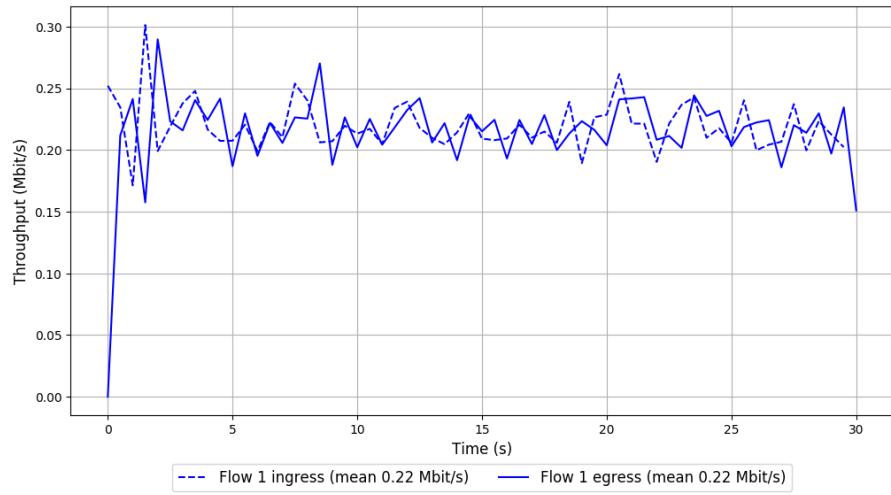


Run 3: Statistics of SCReAM

```
Start at: 2019-01-18 18:34:57
End at: 2019-01-18 18:35:27
Local clock offset: 39.041 ms
Remote clock offset: 34.876 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.683 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.683 ms
Loss rate: 0.64%
```

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

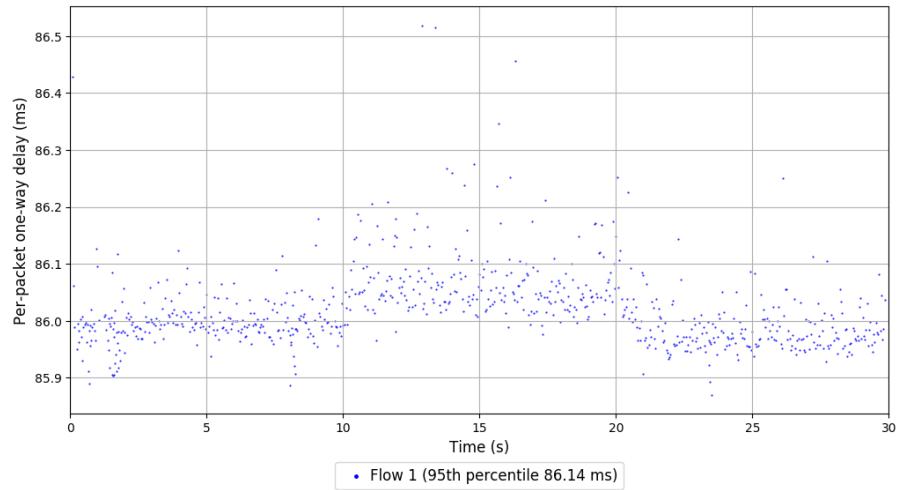
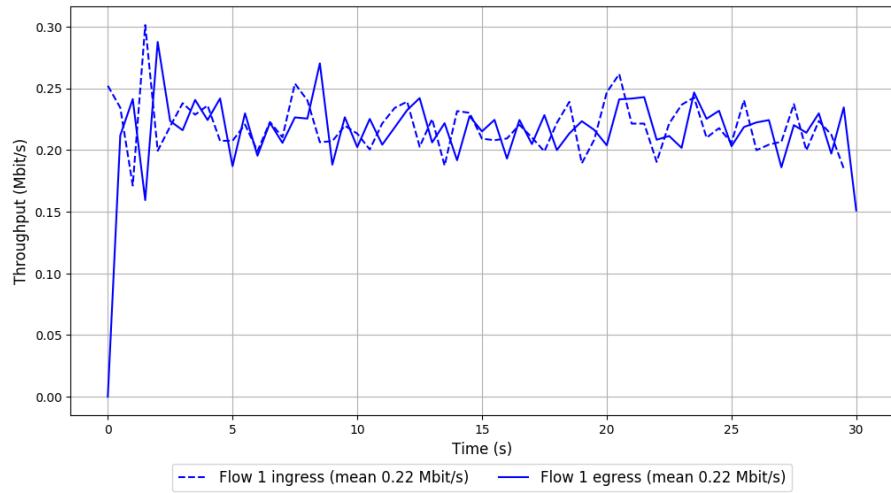


Run 4: Statistics of SCReAM

```
Start at: 2019-01-18 19:07:27
End at: 2019-01-18 19:07:57
Local clock offset: 19.429 ms
Remote clock offset: 17.116 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.144 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.144 ms
Loss rate: 0.51%
```

## Run 4: Report of SCReAM — Data Link

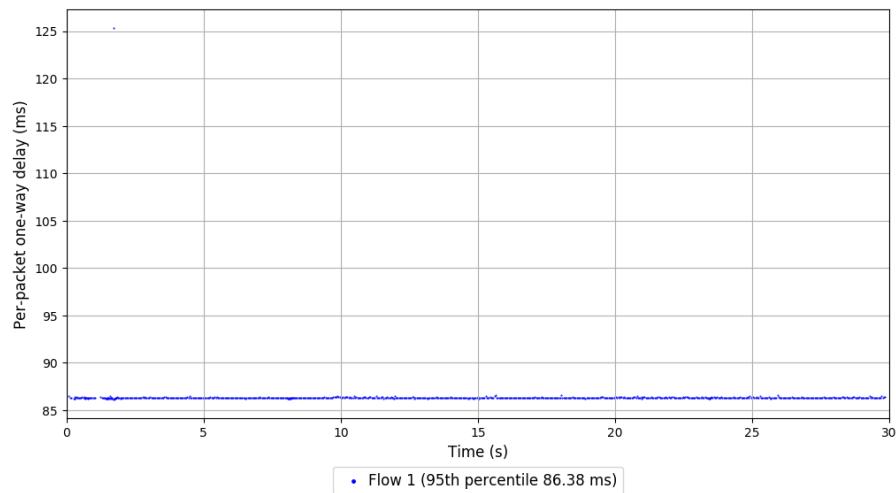
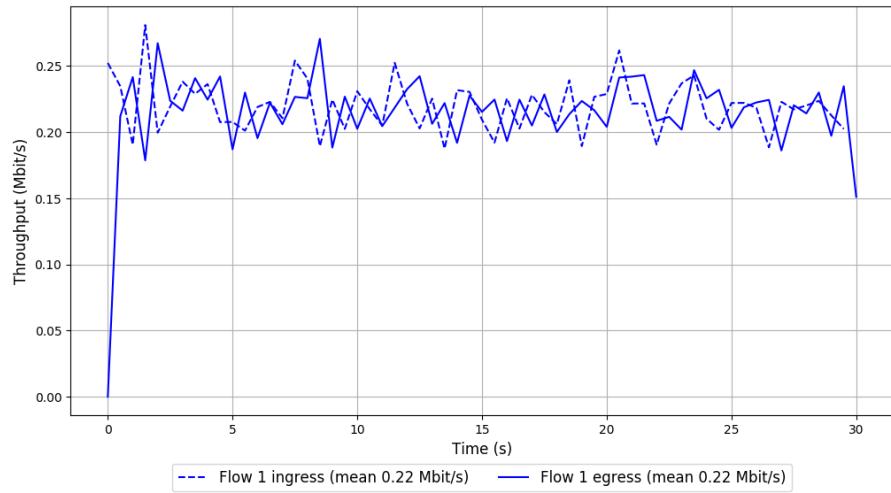


Run 5: Statistics of SCReAM

```
Start at: 2019-01-18 19:39:36
End at: 2019-01-18 19:40:06
Local clock offset: 9.385 ms
Remote clock offset: 7.864 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.384 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.384 ms
Loss rate: 0.64%
```

Run 5: Report of SCReAM — Data Link

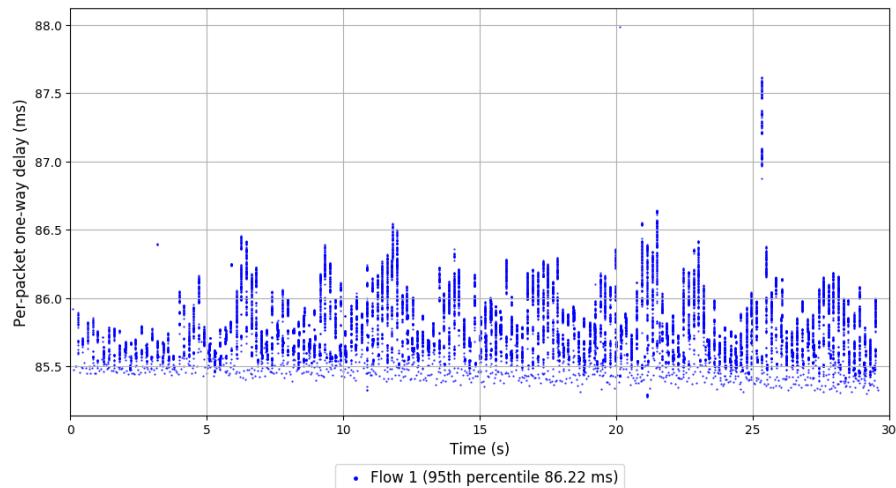
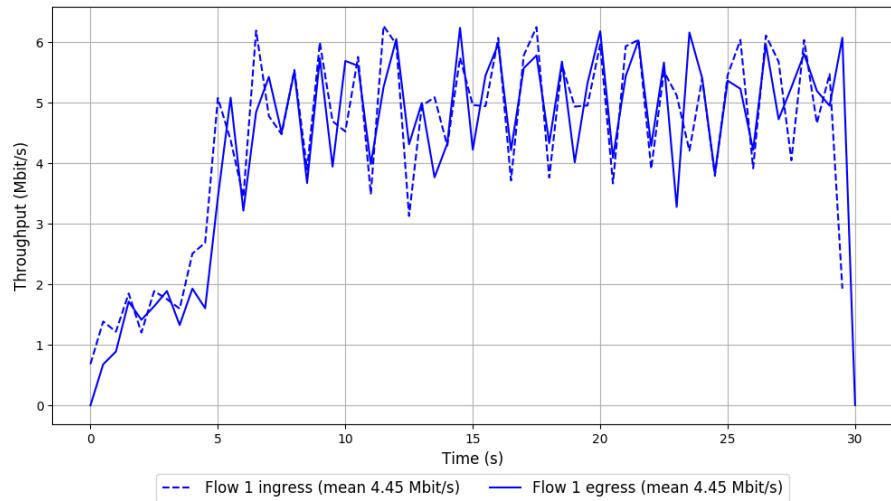


Run 1: Statistics of Sprout

```
Start at: 2019-01-18 17:36:22
End at: 2019-01-18 17:36:52
Local clock offset: 7.356 ms
Remote clock offset: 6.753 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 86.218 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 86.218 ms
Loss rate: 0.73%
```

Run 1: Report of Sprout — Data Link

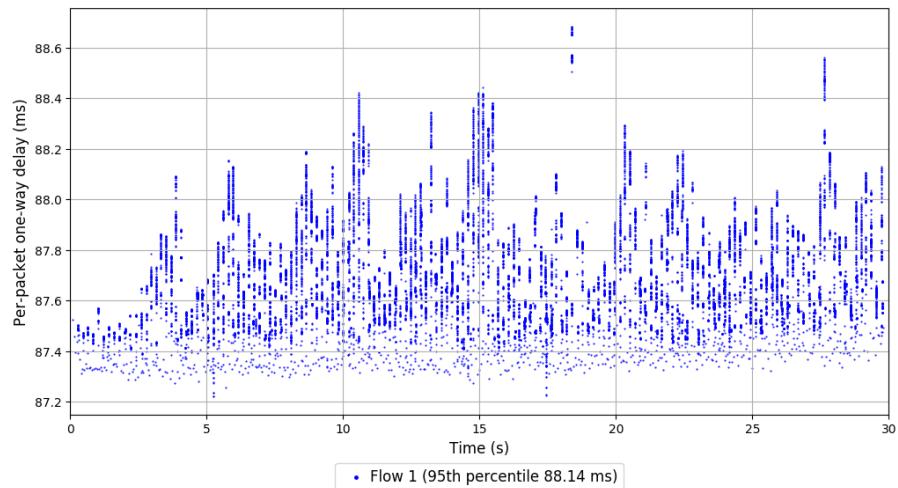
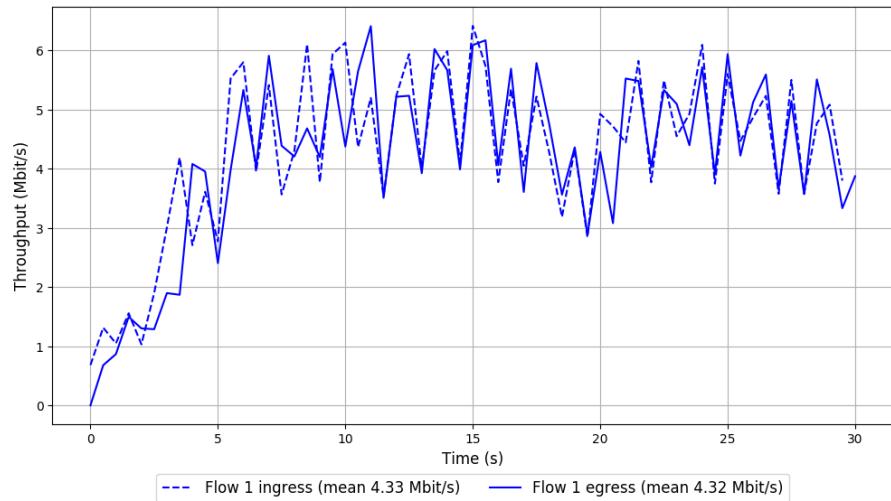


Run 2: Statistics of Sprout

```
Start at: 2019-01-18 18:07:49
End at: 2019-01-18 18:08:19
Local clock offset: 23.892 ms
Remote clock offset: 20.588 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 88.143 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 88.143 ms
Loss rate: 0.73%
```

## Run 2: Report of Sprout — Data Link

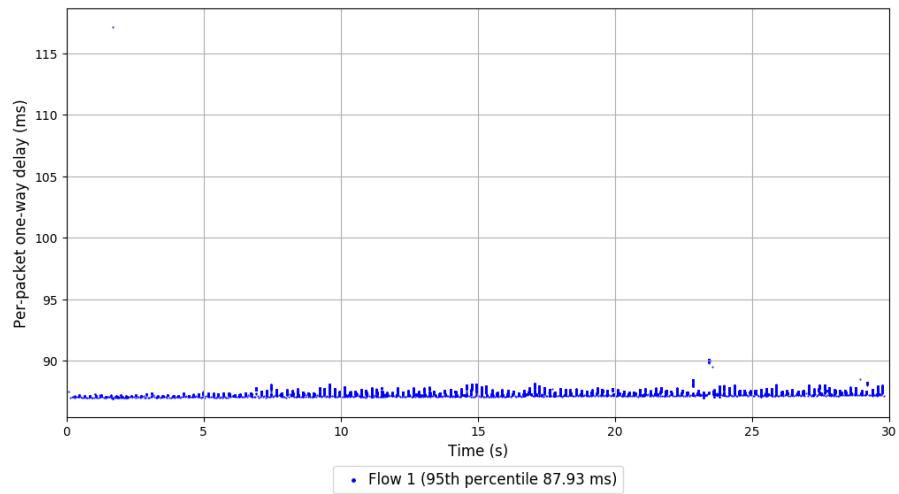
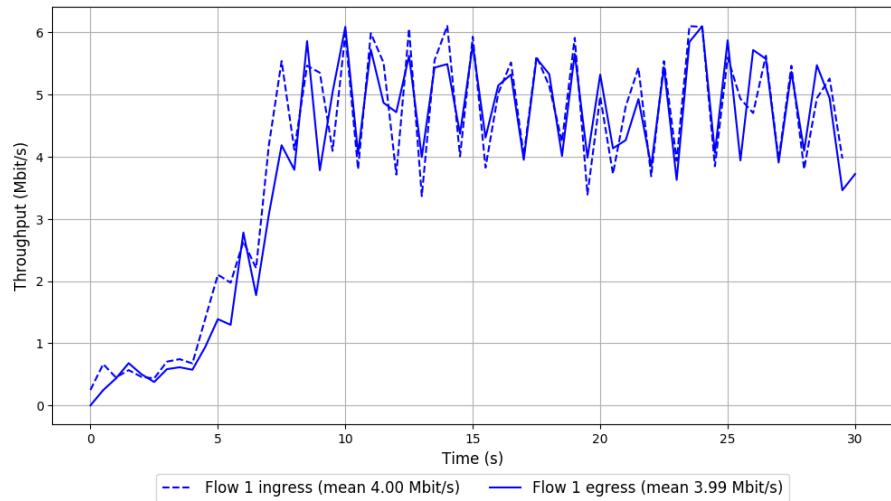


Run 3: Statistics of Sprout

```
Start at: 2019-01-18 18:39:54
End at: 2019-01-18 18:40:24
Local clock offset: 36.615 ms
Remote clock offset: 31.909 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 87.926 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 87.926 ms
Loss rate: 0.86%
```

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

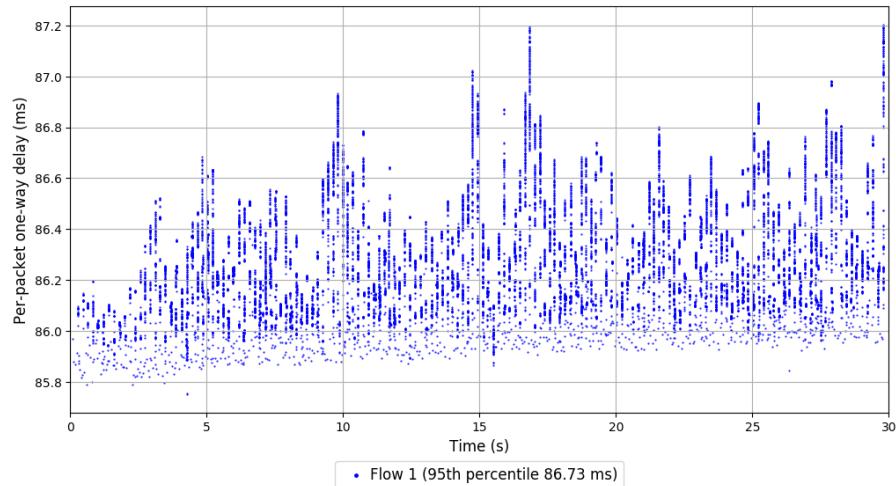
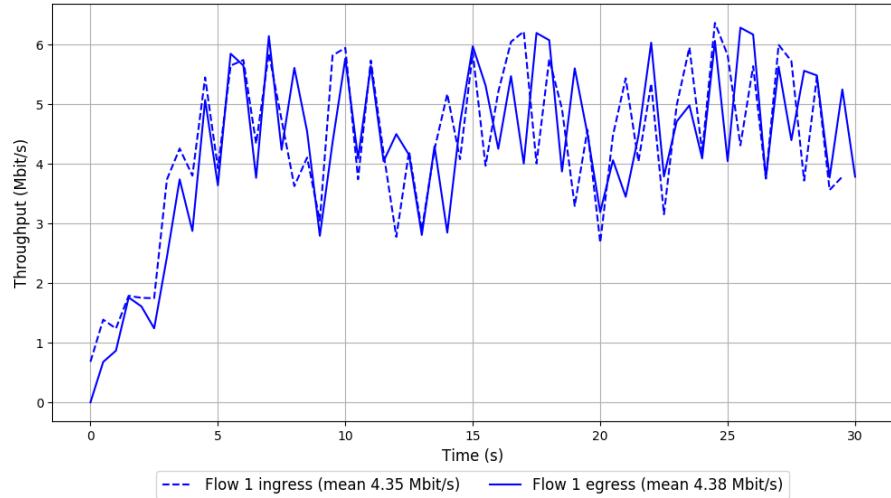


Run 4: Statistics of Sprout

```
Start at: 2019-01-18 19:12:06
End at: 2019-01-18 19:12:36
Local clock offset: 21.486 ms
Remote clock offset: 19.047 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 86.726 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 86.726 ms
Loss rate: 0.00%
```

## Run 4: Report of Sprout — Data Link

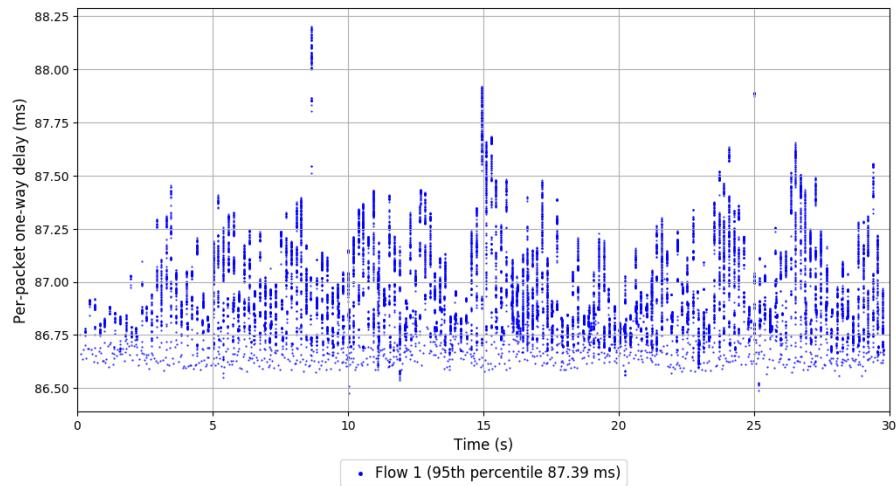
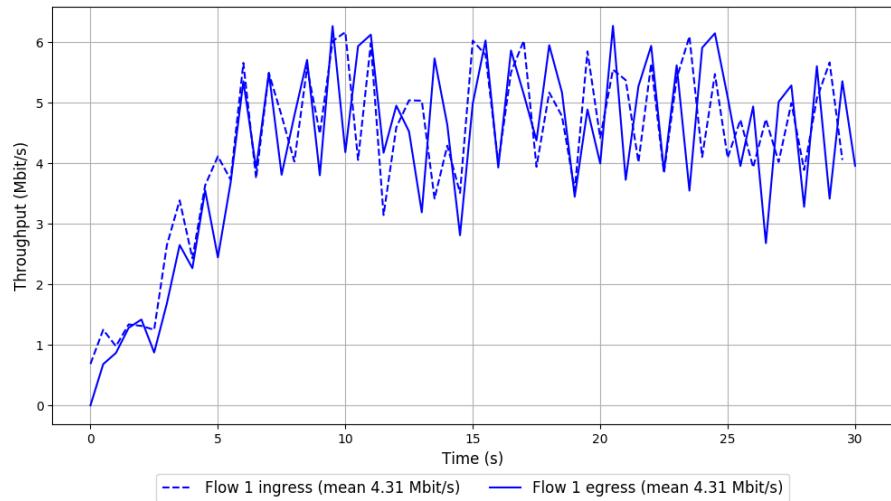


Run 5: Statistics of Sprout

```
Start at: 2019-01-18 19:44:13
End at: 2019-01-18 19:44:43
Local clock offset: 10.428 ms
Remote clock offset: 8.772 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 87.390 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 87.390 ms
Loss rate: 0.80%
```

## Run 5: Report of Sprout — Data Link

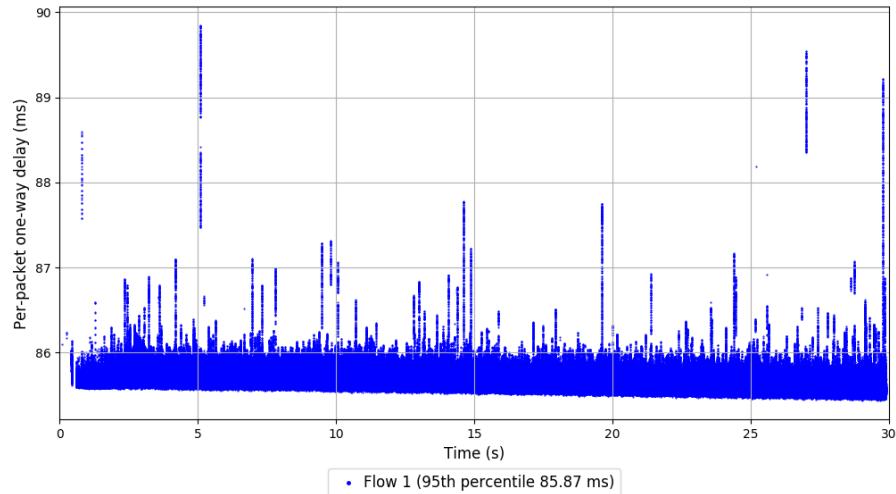
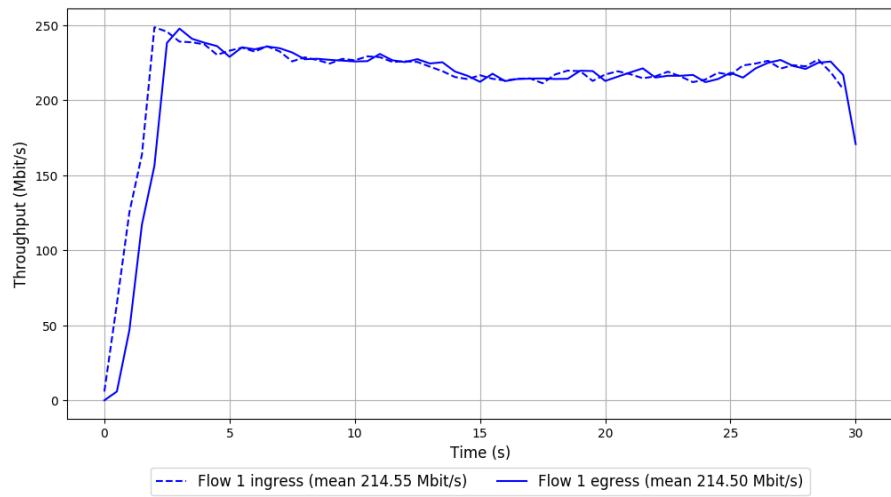


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-18 17:37:32
End at: 2019-01-18 17:38:02
Local clock offset: 9.836 ms
Remote clock offset: 9.422 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.50 Mbit/s
95th percentile per-packet one-way delay: 85.870 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 214.50 Mbit/s
95th percentile per-packet one-way delay: 85.870 ms
Loss rate: 0.60%
```

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

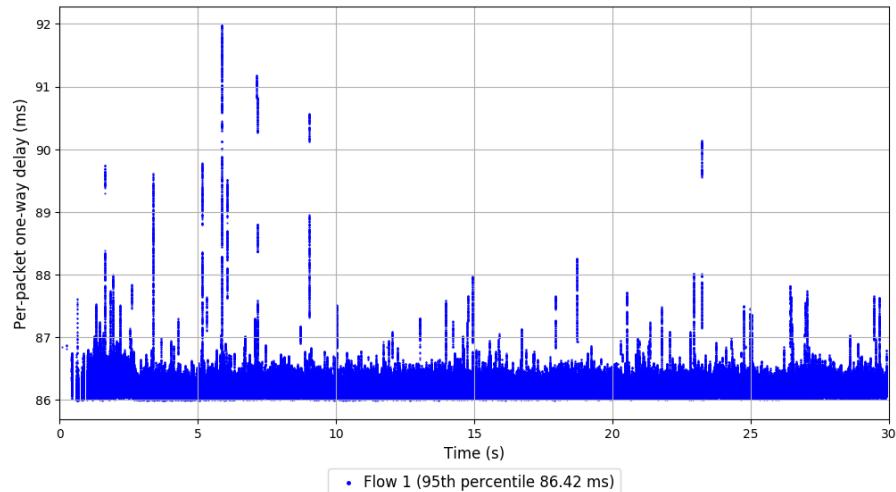
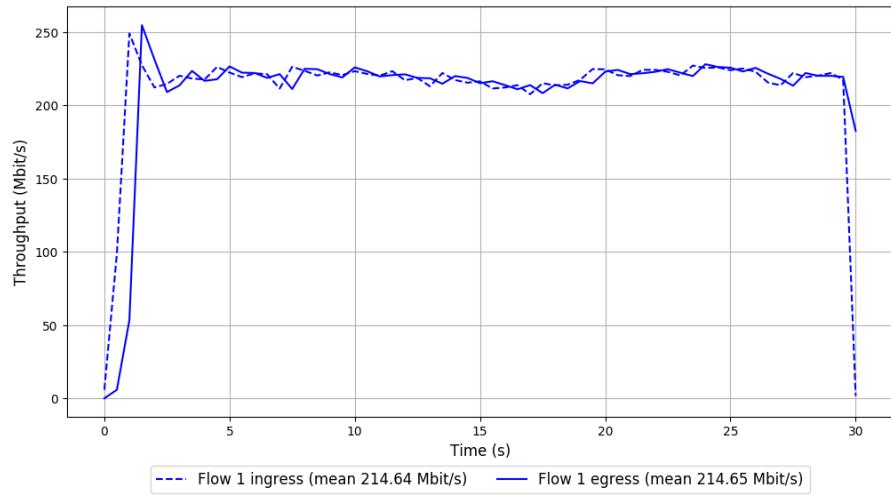


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-18 18:08:59
End at: 2019-01-18 18:09:29
Local clock offset: 22.639 ms
Remote clock offset: 19.807 ms

# Below is generated by plot.py at 2019-01-18 22:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.65 Mbit/s
95th percentile per-packet one-way delay: 86.417 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 214.65 Mbit/s
95th percentile per-packet one-way delay: 86.417 ms
Loss rate: 0.59%
```

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

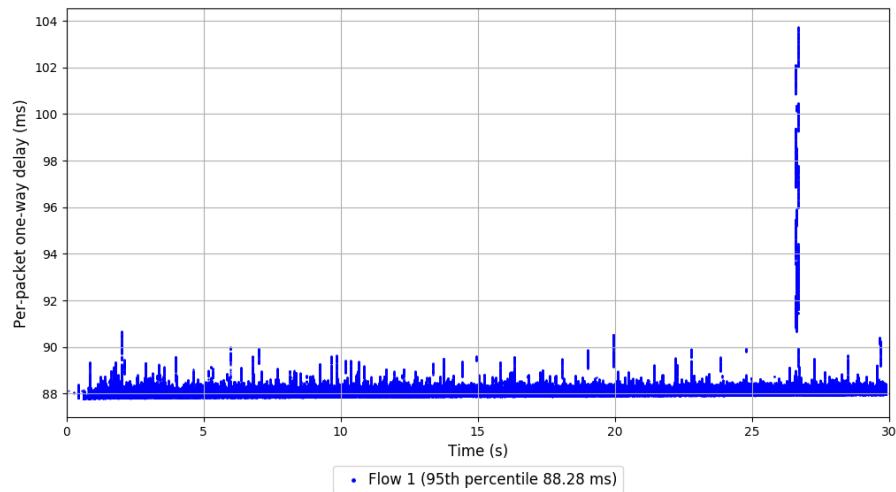
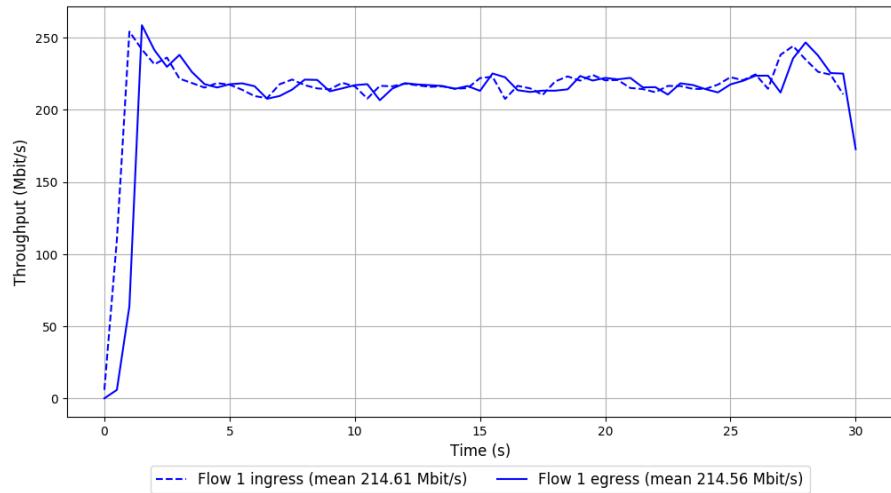


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-18 18:41:04
End at: 2019-01-18 18:41:34
Local clock offset: 33.504 ms
Remote clock offset: 28.589 ms

# Below is generated by plot.py at 2019-01-18 22:09:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.56 Mbit/s
95th percentile per-packet one-way delay: 88.279 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 214.56 Mbit/s
95th percentile per-packet one-way delay: 88.279 ms
Loss rate: 0.60%
```

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

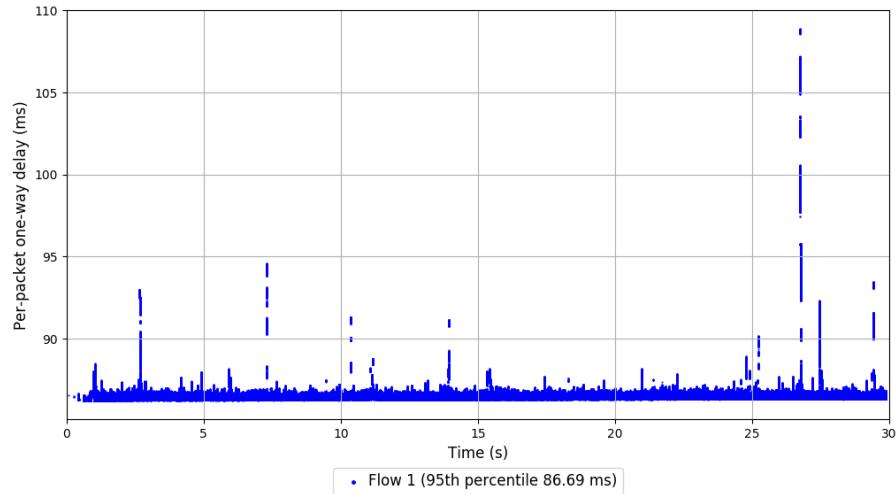
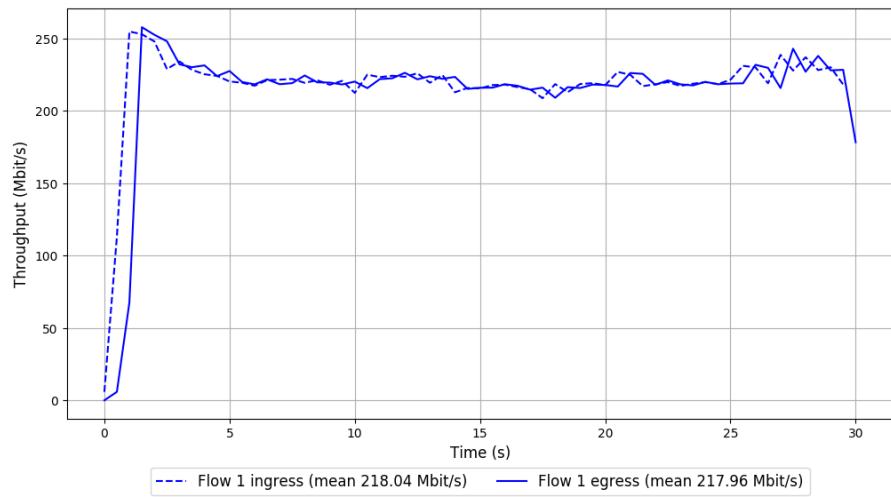


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-18 19:13:16
End at: 2019-01-18 19:13:46
Local clock offset: 19.768 ms
Remote clock offset: 17.457 ms

# Below is generated by plot.py at 2019-01-18 22:10:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.96 Mbit/s
95th percentile per-packet one-way delay: 86.686 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 217.96 Mbit/s
95th percentile per-packet one-way delay: 86.686 ms
Loss rate: 0.61%
```

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

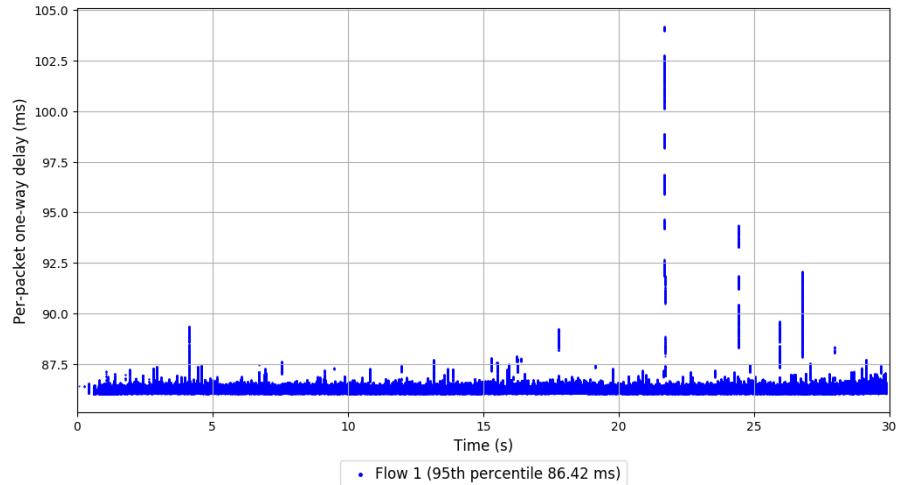
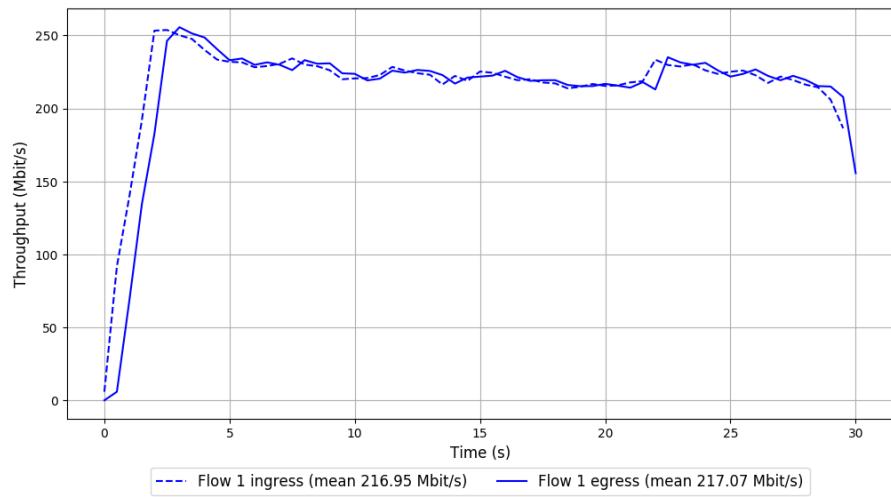


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-18 19:45:23
End at: 2019-01-18 19:45:53
Local clock offset: 10.355 ms
Remote clock offset: 9.044 ms

# Below is generated by plot.py at 2019-01-18 22:10:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.07 Mbit/s
95th percentile per-packet one-way delay: 86.424 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 217.07 Mbit/s
95th percentile per-packet one-way delay: 86.424 ms
Loss rate: 0.52%
```

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

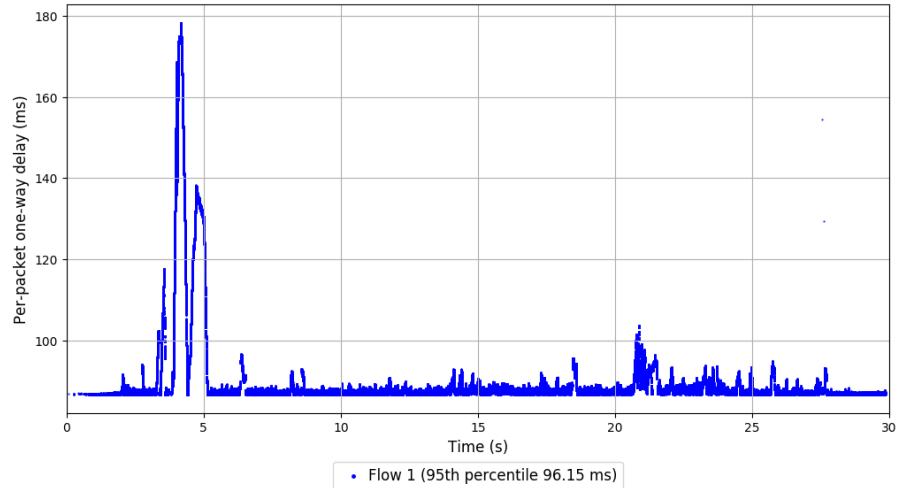
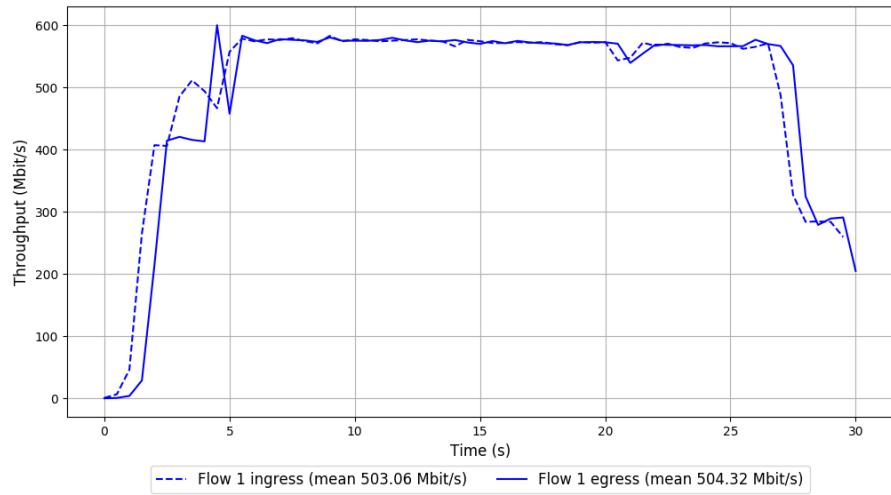


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-18 17:49:38
End at: 2019-01-18 17:50:09
Local clock offset: 14.991 ms
Remote clock offset: 13.04 ms

# Below is generated by plot.py at 2019-01-18 22:13:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 504.32 Mbit/s
95th percentile per-packet one-way delay: 96.152 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 504.32 Mbit/s
95th percentile per-packet one-way delay: 96.152 ms
Loss rate: 0.33%
```

Run 1: Report of TCP Vegas — Data Link

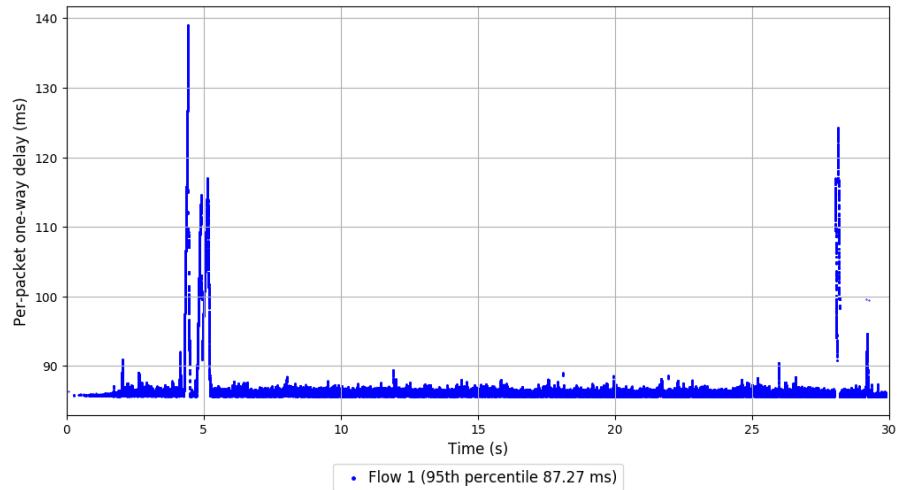
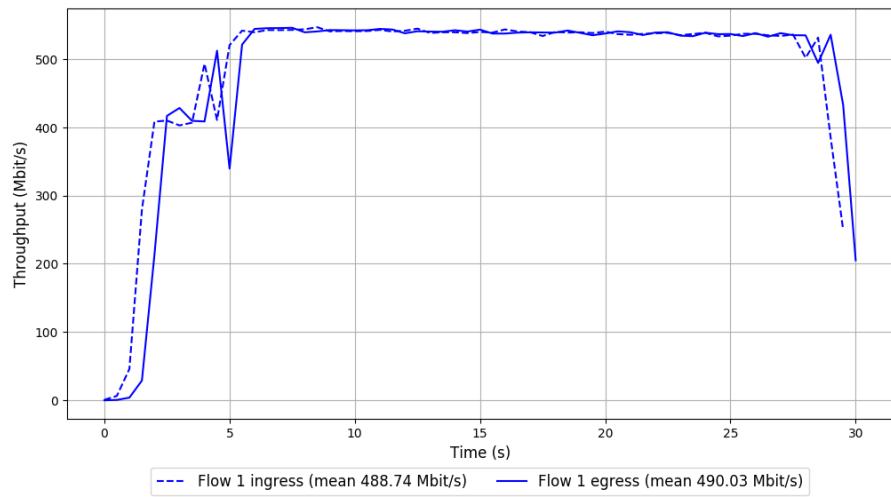


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-18 18:21:33
End at: 2019-01-18 18:22:04
Local clock offset: 25.411 ms
Remote clock offset: 22.589 ms

# Below is generated by plot.py at 2019-01-18 22:18:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 490.03 Mbit/s
95th percentile per-packet one-way delay: 87.269 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 490.03 Mbit/s
95th percentile per-packet one-way delay: 87.269 ms
Loss rate: 0.32%
```

Run 2: Report of TCP Vegas — Data Link

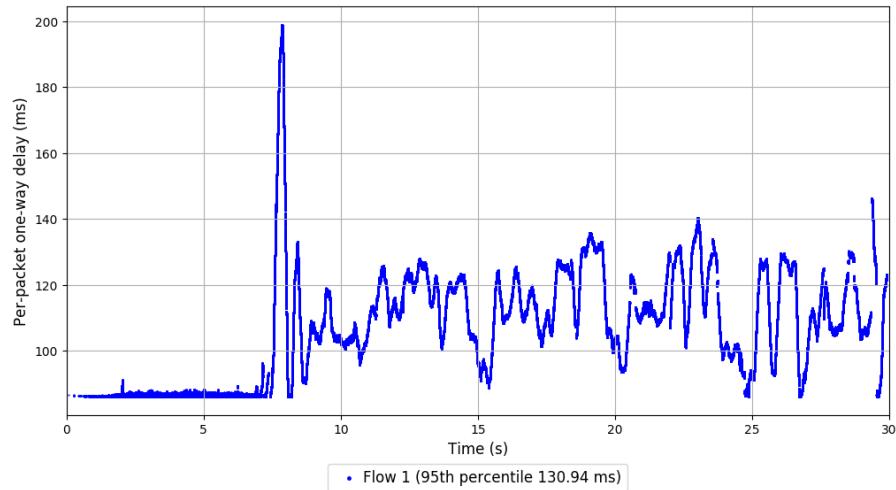
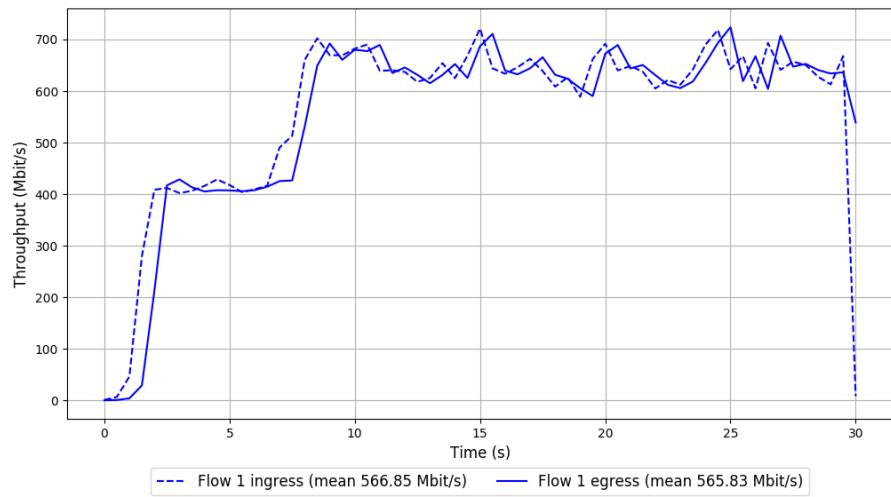


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-18 18:53:38
End at: 2019-01-18 18:54:08
Local clock offset: 16.79 ms
Remote clock offset: 14.588 ms

# Below is generated by plot.py at 2019-01-18 22:20:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 565.83 Mbit/s
95th percentile per-packet one-way delay: 130.935 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 565.83 Mbit/s
95th percentile per-packet one-way delay: 130.935 ms
Loss rate: 0.75%
```

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

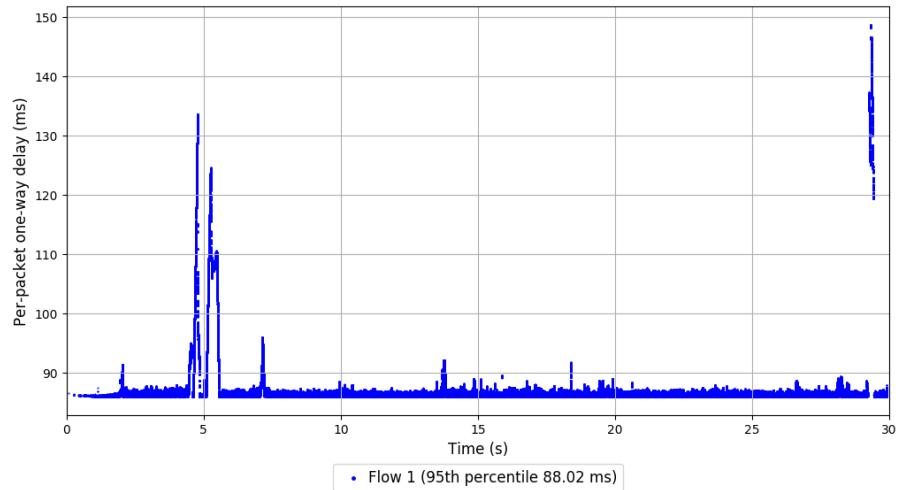
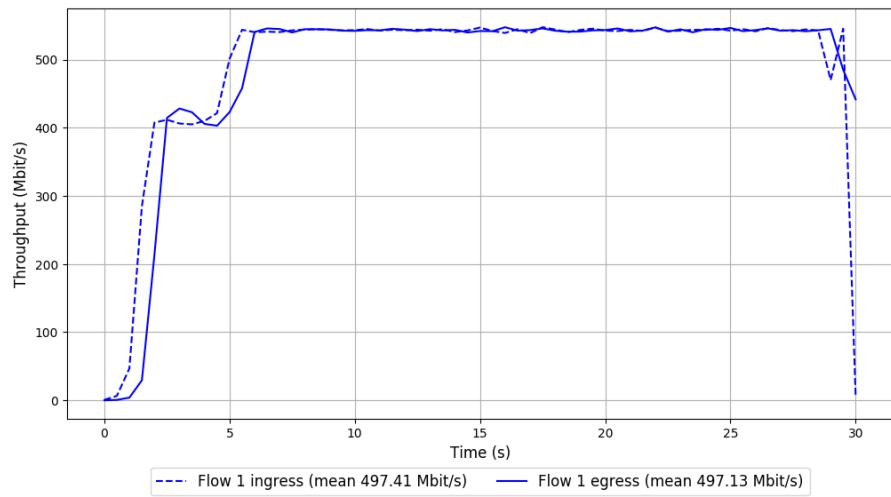


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-18 19:26:11
End at: 2019-01-18 19:26:41
Local clock offset: 8.702 ms
Remote clock offset: 7.348 ms

# Below is generated by plot.py at 2019-01-18 22:20:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 497.13 Mbit/s
95th percentile per-packet one-way delay: 88.020 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 497.13 Mbit/s
95th percentile per-packet one-way delay: 88.020 ms
Loss rate: 0.63%
```

Run 4: Report of TCP Vegas — Data Link

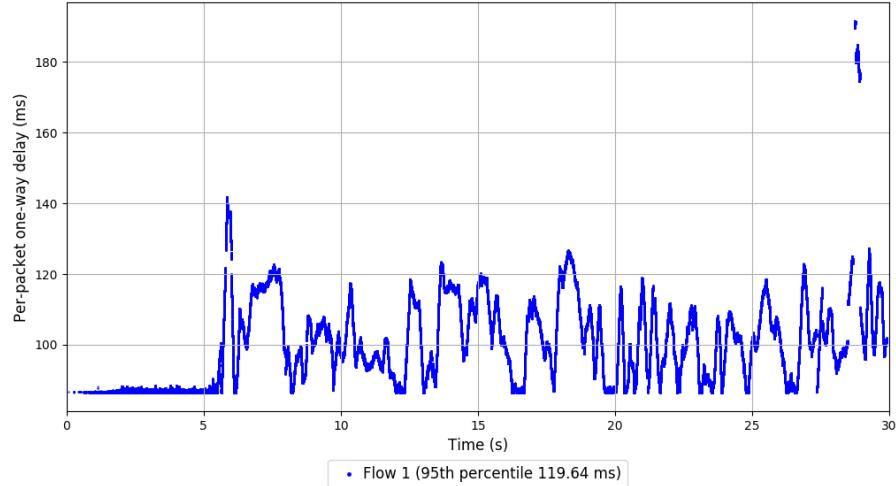
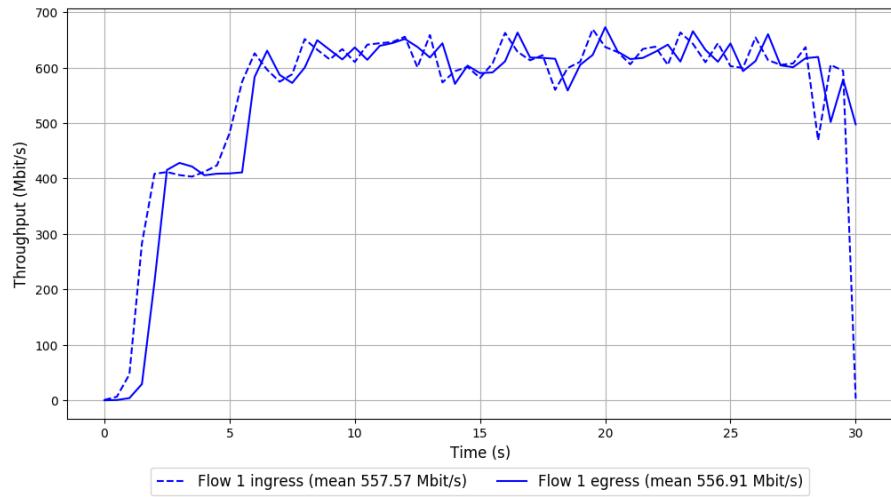


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-18 19:58:23
End at: 2019-01-18 19:58:53
Local clock offset: 3.663 ms
Remote clock offset: 3.722 ms

# Below is generated by plot.py at 2019-01-18 22:21:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 556.91 Mbit/s
95th percentile per-packet one-way delay: 119.640 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 556.91 Mbit/s
95th percentile per-packet one-way delay: 119.640 ms
Loss rate: 0.69%
```

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

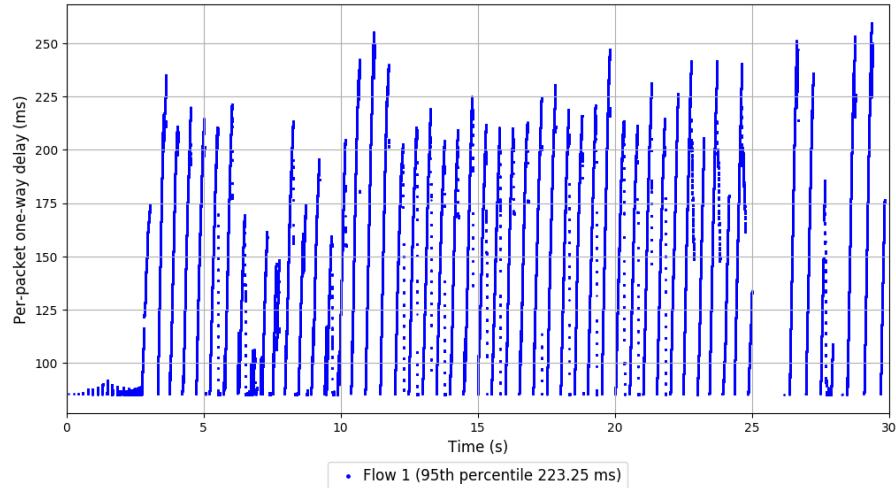
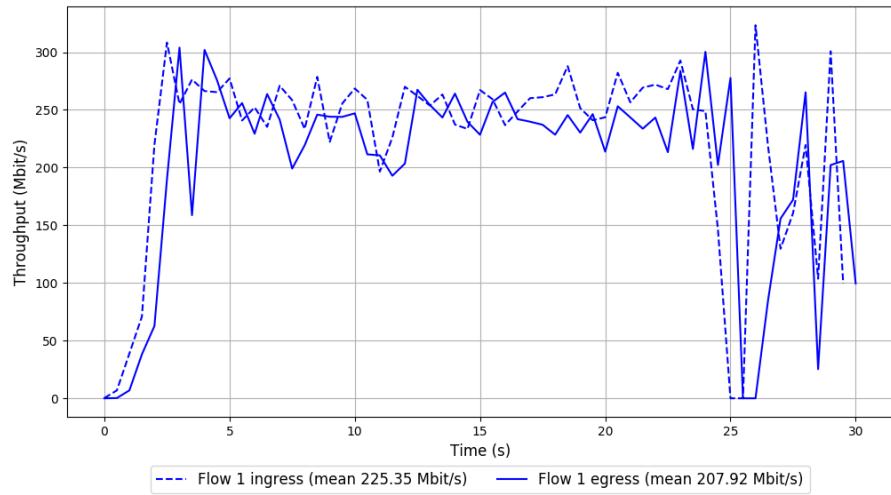


Run 1: Statistics of Verus

```
Start at: 2019-01-18 17:55:12
End at: 2019-01-18 17:55:42
Local clock offset: 16.085 ms
Remote clock offset: 14.676 ms

# Below is generated by plot.py at 2019-01-18 22:21:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.92 Mbit/s
95th percentile per-packet one-way delay: 223.252 ms
Loss rate: 7.45%
-- Flow 1:
Average throughput: 207.92 Mbit/s
95th percentile per-packet one-way delay: 223.252 ms
Loss rate: 7.45%
```

Run 1: Report of Verus — Data Link

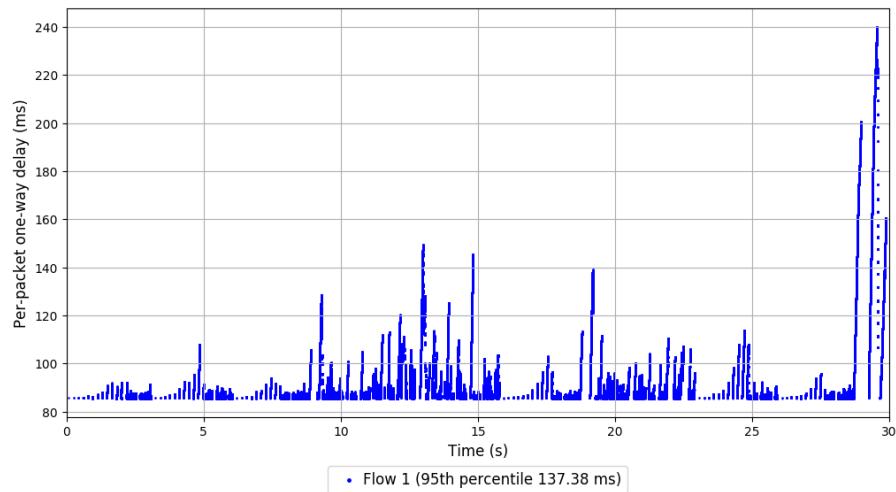
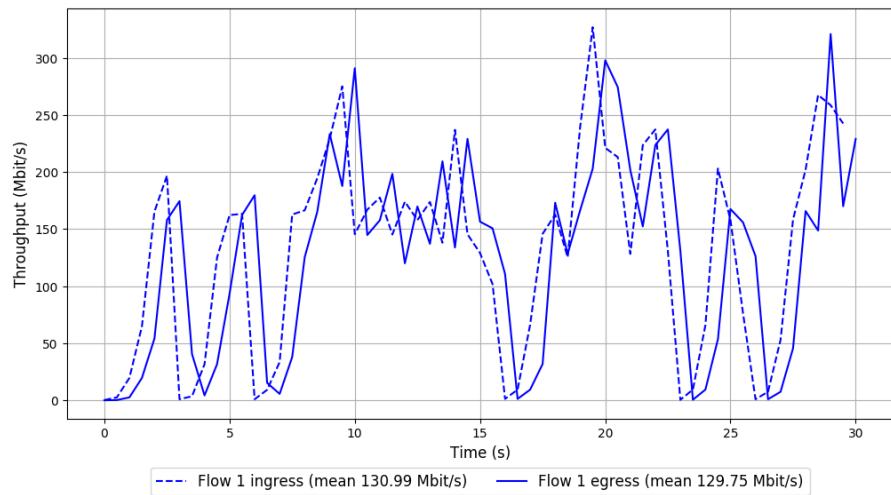


Run 2: Statistics of Verus

```
Start at: 2019-01-18 18:27:06
End at: 2019-01-18 18:27:36
Local clock offset: 30.376 ms
Remote clock offset: 27.129 ms

# Below is generated by plot.py at 2019-01-18 22:21:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 129.75 Mbit/s
95th percentile per-packet one-way delay: 137.384 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 129.75 Mbit/s
95th percentile per-packet one-way delay: 137.384 ms
Loss rate: 1.30%
```

## Run 2: Report of Verus — Data Link

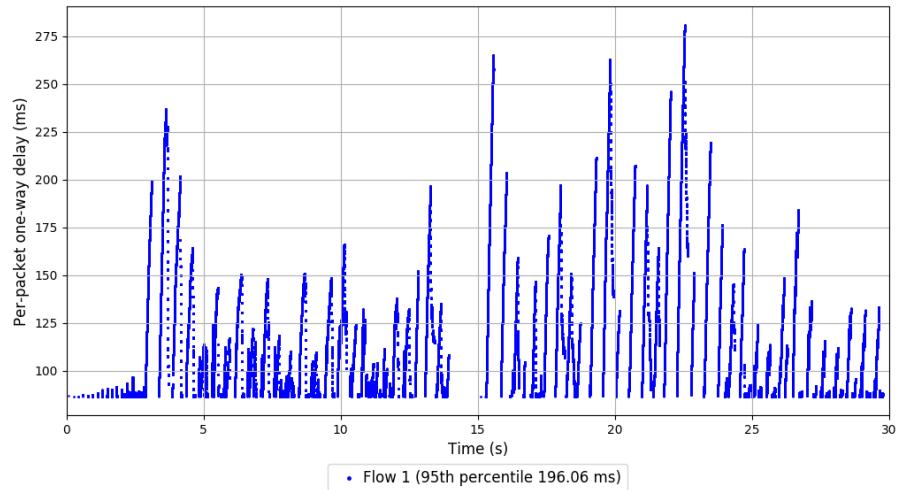
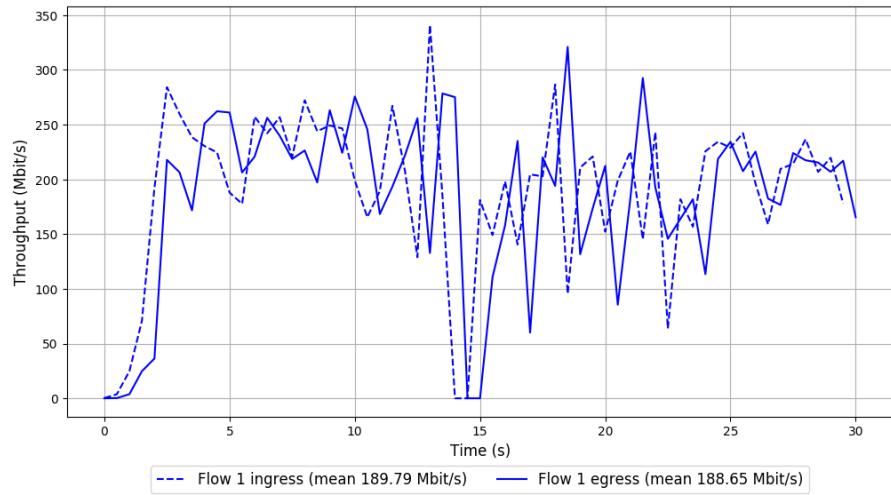


Run 3: Statistics of Verus

```
Start at: 2019-01-18 18:59:26
End at: 2019-01-18 18:59:56
Local clock offset: 16.785 ms
Remote clock offset: 14.663 ms

# Below is generated by plot.py at 2019-01-18 22:21:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.65 Mbit/s
95th percentile per-packet one-way delay: 196.056 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 188.65 Mbit/s
95th percentile per-packet one-way delay: 196.056 ms
Loss rate: 1.54%
```

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

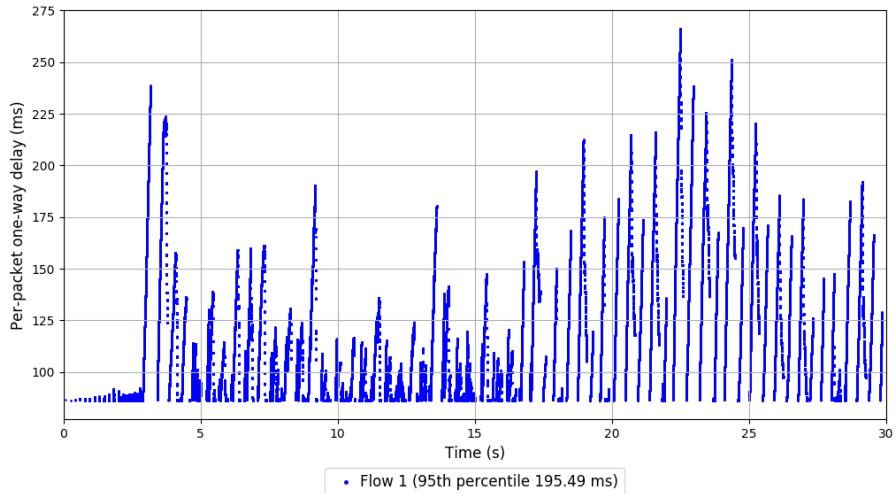
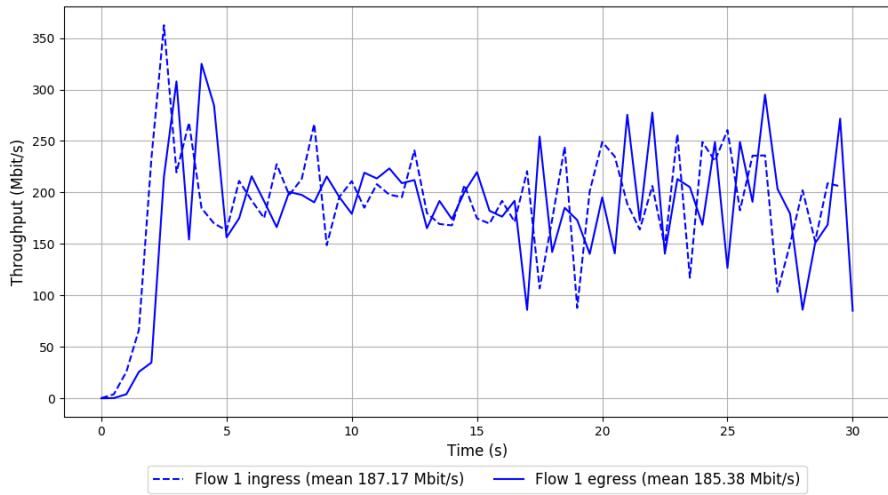


Run 4: Statistics of Verus

```
Start at: 2019-01-18 19:31:46
End at: 2019-01-18 19:32:16
Local clock offset: 8.008 ms
Remote clock offset: 6.998 ms

# Below is generated by plot.py at 2019-01-18 22:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.38 Mbit/s
95th percentile per-packet one-way delay: 195.492 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 185.38 Mbit/s
95th percentile per-packet one-way delay: 195.492 ms
Loss rate: 1.53%
```

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

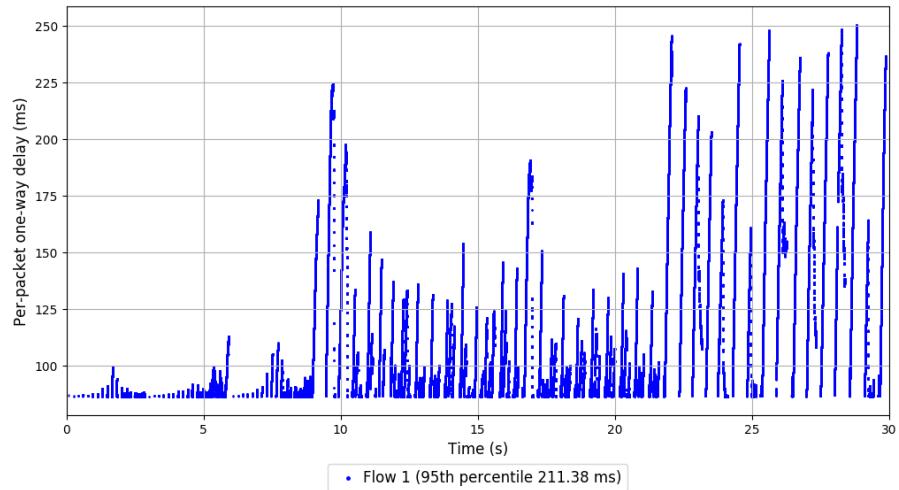
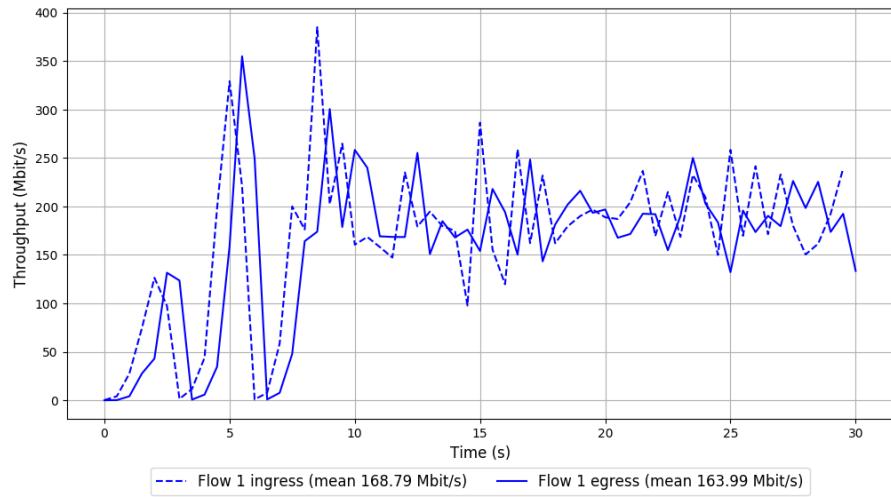


Run 5: Statistics of Verus

```
Start at: 2019-01-18 20:04:20
End at: 2019-01-18 20:04:50
Local clock offset: 2.655 ms
Remote clock offset: 3.302 ms

# Below is generated by plot.py at 2019-01-18 22:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 163.99 Mbit/s
95th percentile per-packet one-way delay: 211.381 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 163.99 Mbit/s
95th percentile per-packet one-way delay: 211.381 ms
Loss rate: 2.55%
```

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

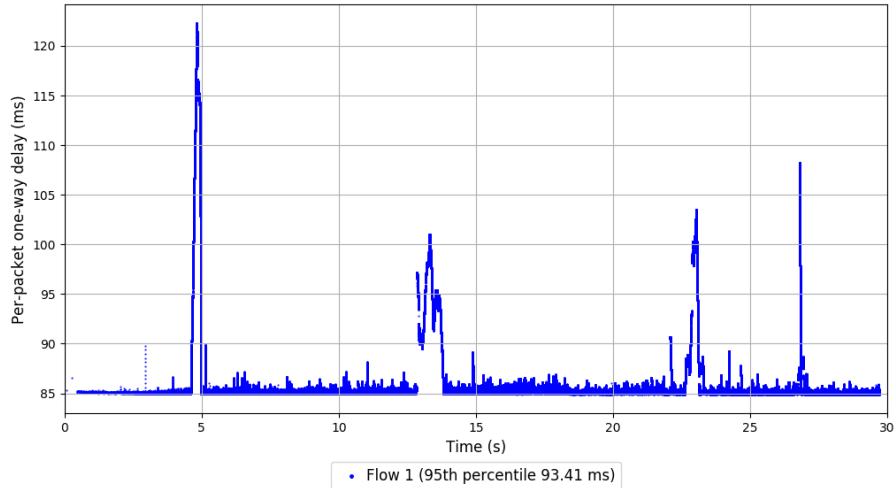
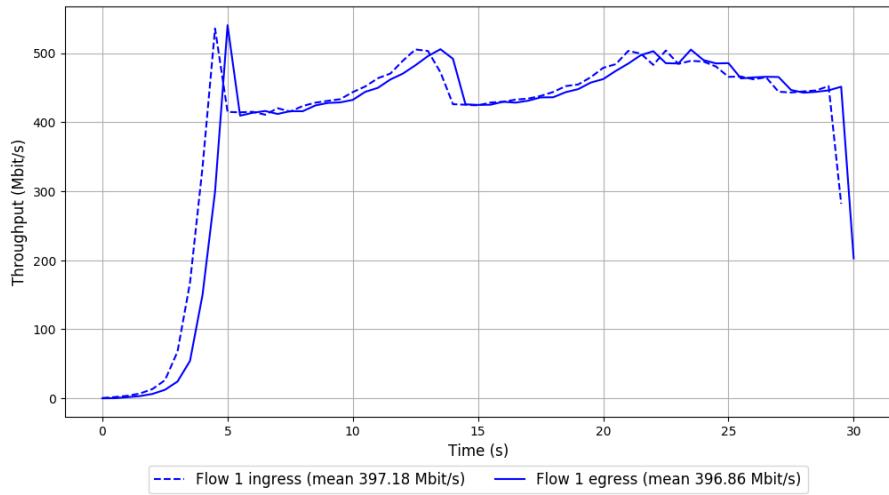


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-18 17:43:13
End at: 2019-01-18 17:43:43
Local clock offset: 11.621 ms
Remote clock offset: 10.785 ms

# Below is generated by plot.py at 2019-01-18 22:24:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 396.86 Mbit/s
95th percentile per-packet one-way delay: 93.407 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 396.86 Mbit/s
95th percentile per-packet one-way delay: 93.407 ms
Loss rate: 0.66%
```

Run 1: Report of PCC-Vivace — Data Link

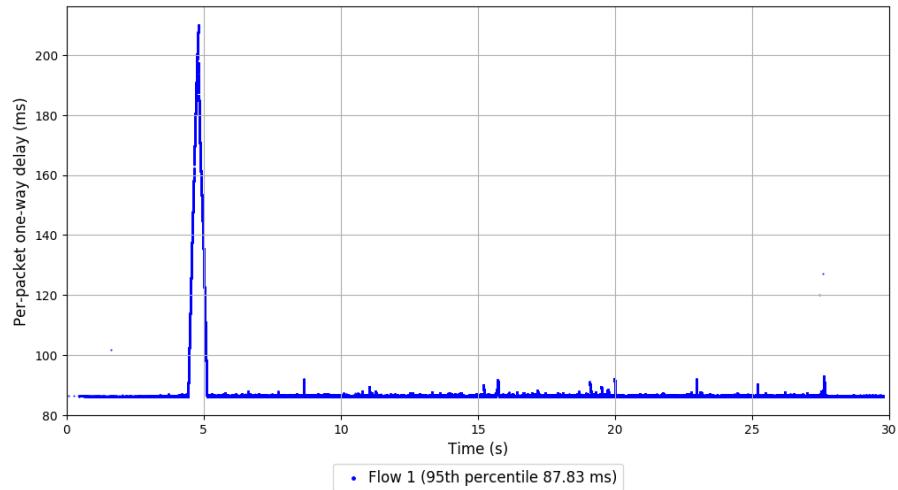
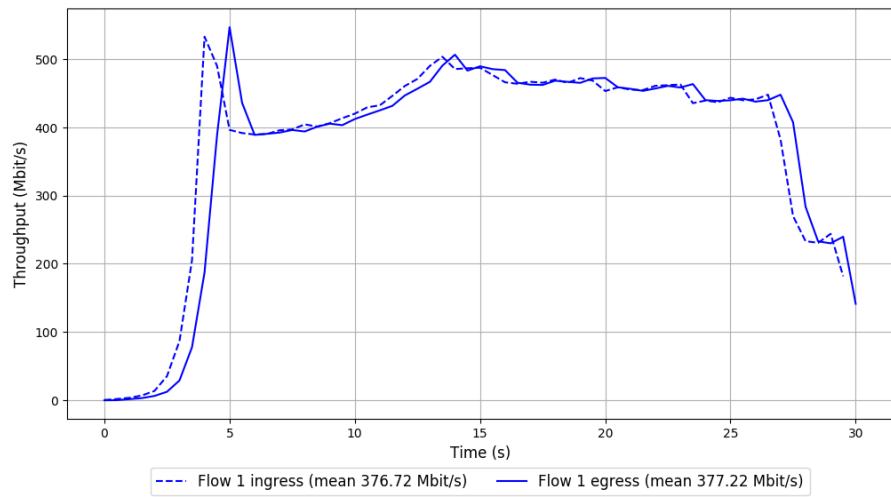


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-18 18:15:07
End at: 2019-01-18 18:15:37
Local clock offset: 22.008 ms
Remote clock offset: 19.148 ms

# Below is generated by plot.py at 2019-01-18 22:24:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 377.22 Mbit/s
95th percentile per-packet one-way delay: 87.830 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 377.22 Mbit/s
95th percentile per-packet one-way delay: 87.830 ms
Loss rate: 0.45%
```

Run 2: Report of PCC-Vivace — Data Link

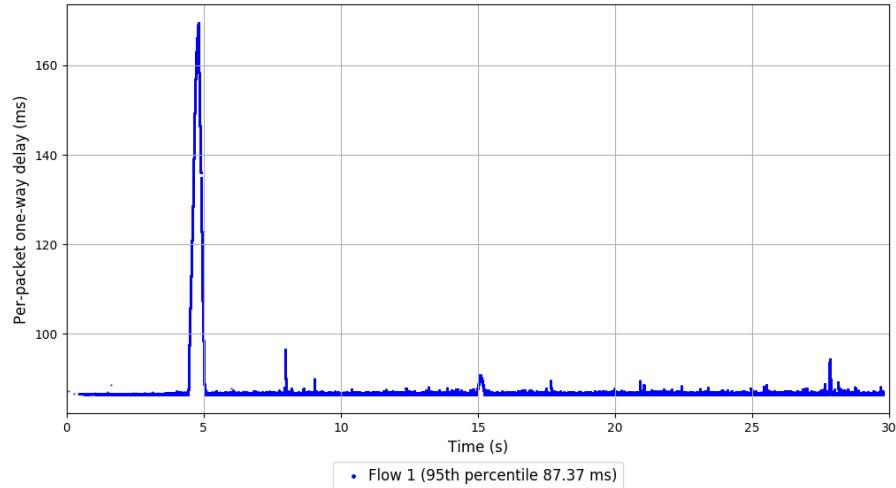
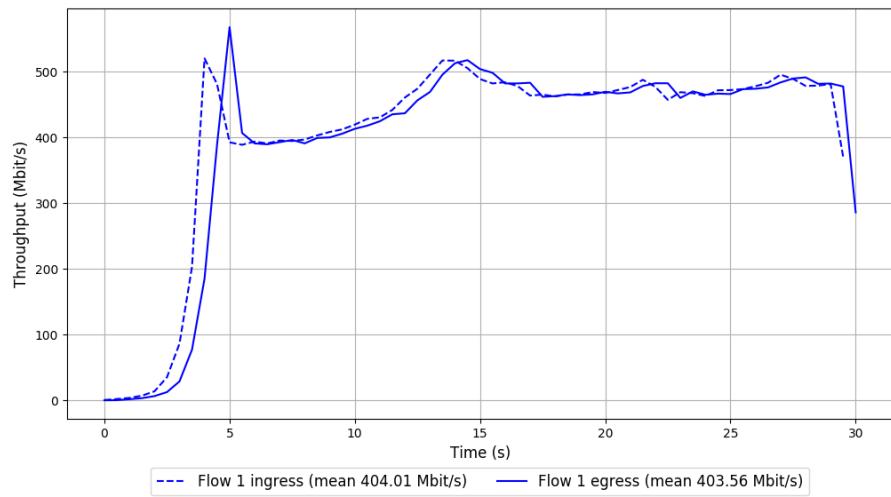


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-18 18:47:07
End at: 2019-01-18 18:47:37
Local clock offset: 20.503 ms
Remote clock offset: 18.295 ms

# Below is generated by plot.py at 2019-01-18 22:24:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 403.56 Mbit/s
95th percentile per-packet one-way delay: 87.371 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 403.56 Mbit/s
95th percentile per-packet one-way delay: 87.371 ms
Loss rate: 0.69%
```

Run 3: Report of PCC-Vivace — Data Link

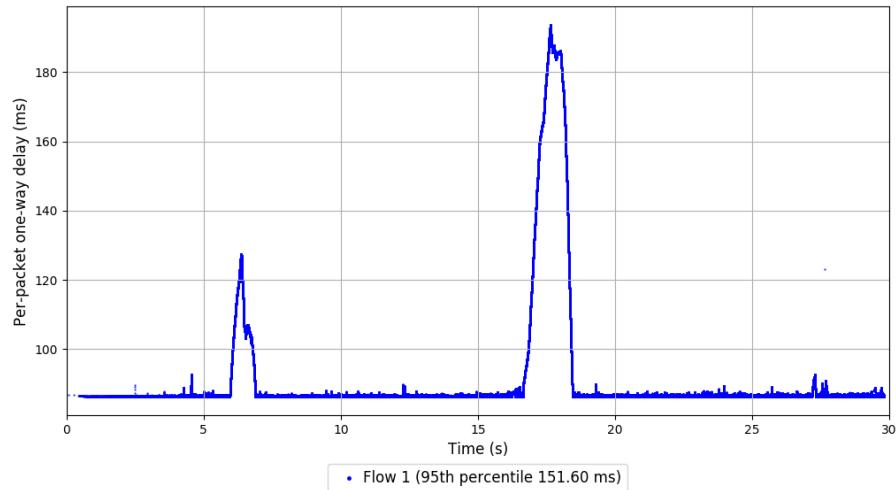
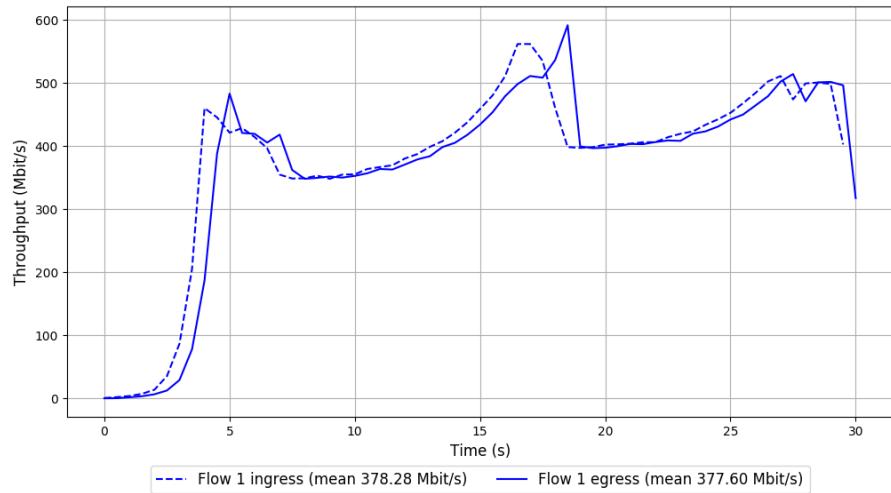


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-18 19:19:45
End at: 2019-01-18 19:20:15
Local clock offset: 11.562 ms
Remote clock offset: 9.877 ms

# Below is generated by plot.py at 2019-01-18 22:24:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 377.60 Mbit/s
95th percentile per-packet one-way delay: 151.603 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 377.60 Mbit/s
95th percentile per-packet one-way delay: 151.603 ms
Loss rate: 0.76%
```

Run 4: Report of PCC-Vivace — Data Link

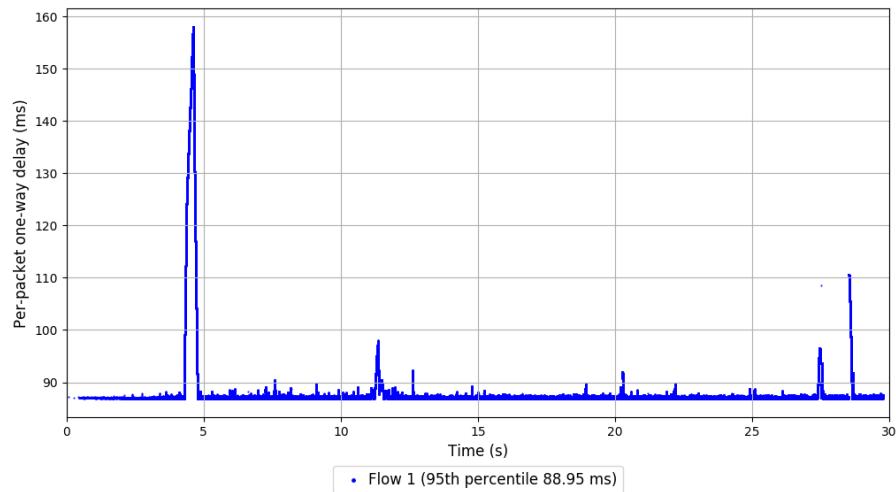
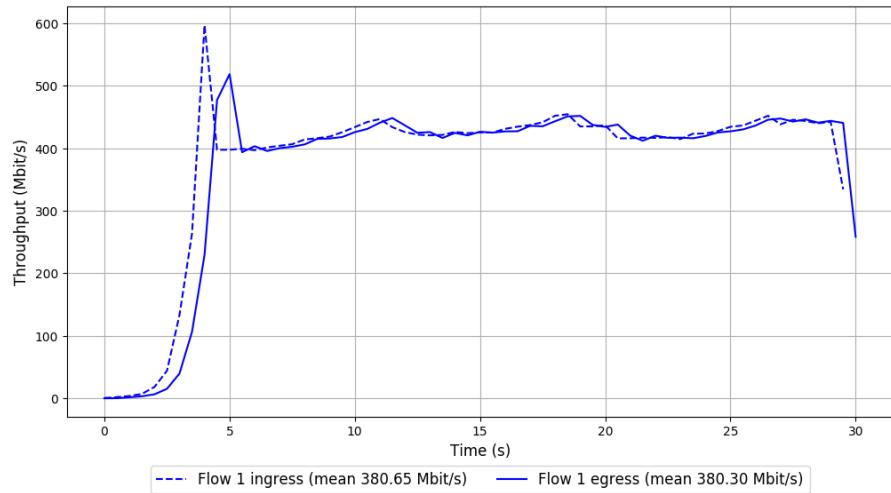


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-18 19:51:49
End at: 2019-01-18 19:52:19
Local clock offset: 6.709 ms
Remote clock offset: 5.519 ms

# Below is generated by plot.py at 2019-01-18 22:24:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.30 Mbit/s
95th percentile per-packet one-way delay: 88.952 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 380.30 Mbit/s
95th percentile per-packet one-way delay: 88.952 ms
Loss rate: 0.67%
```

Run 5: Report of PCC-Vivace — Data Link

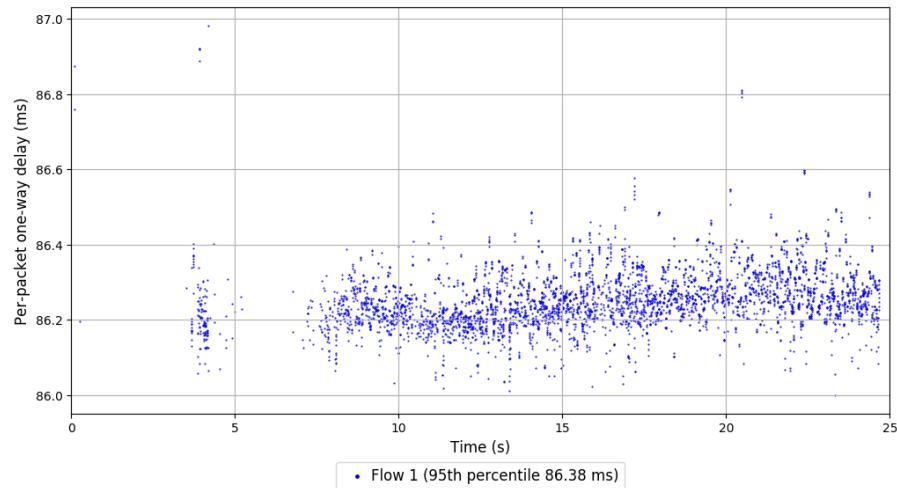
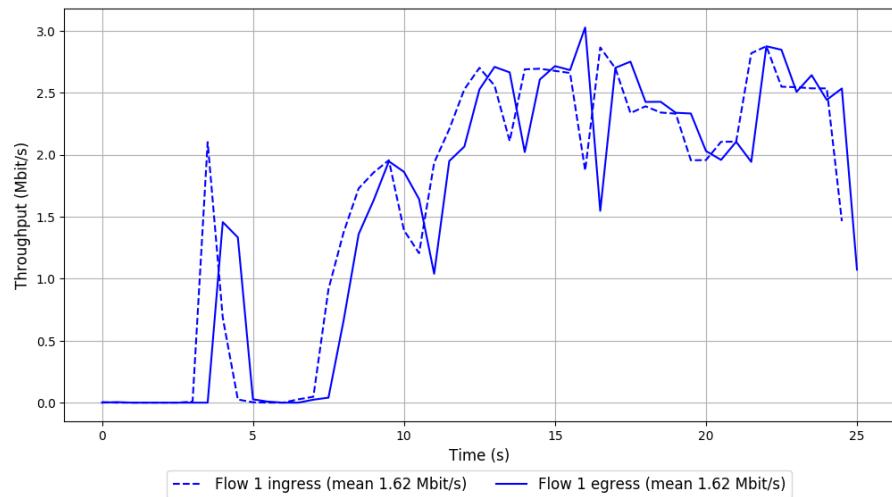


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-18 17:52:22
End at: 2019-01-18 17:52:52
Local clock offset: 14.366 ms
Remote clock offset: 12.75 ms

# Below is generated by plot.py at 2019-01-18 22:24:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 86.384 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 86.384 ms
Loss rate: 1.09%
```

Run 1: Report of WebRTC media — Data Link

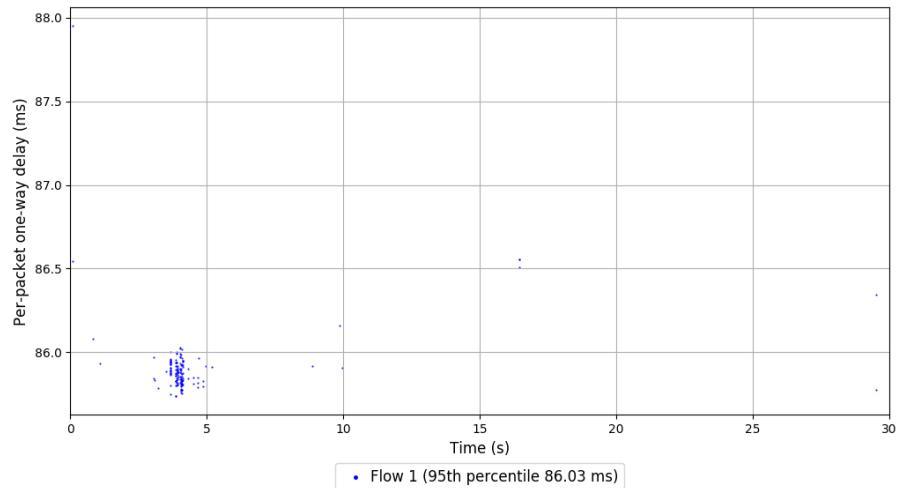
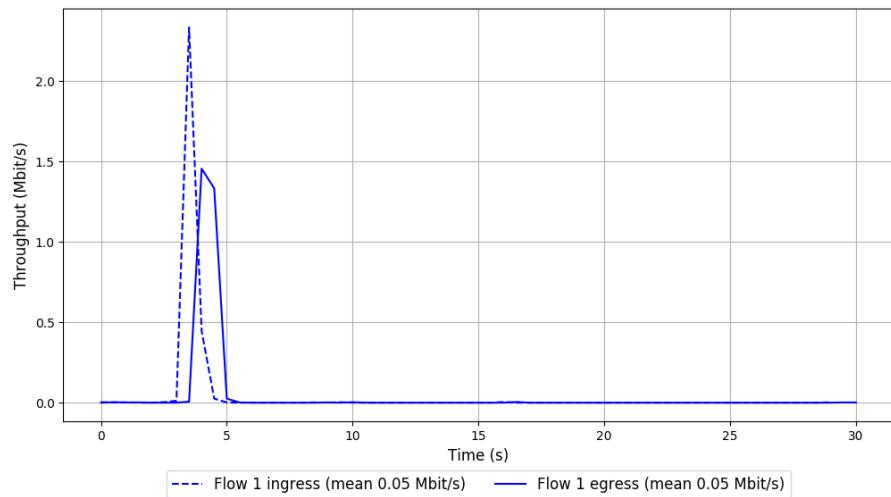


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-18 18:24:21
End at: 2019-01-18 18:24:51
Local clock offset: 27.228 ms
Remote clock offset: 24.794 ms

# Below is generated by plot.py at 2019-01-18 22:24:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.026 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.026 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

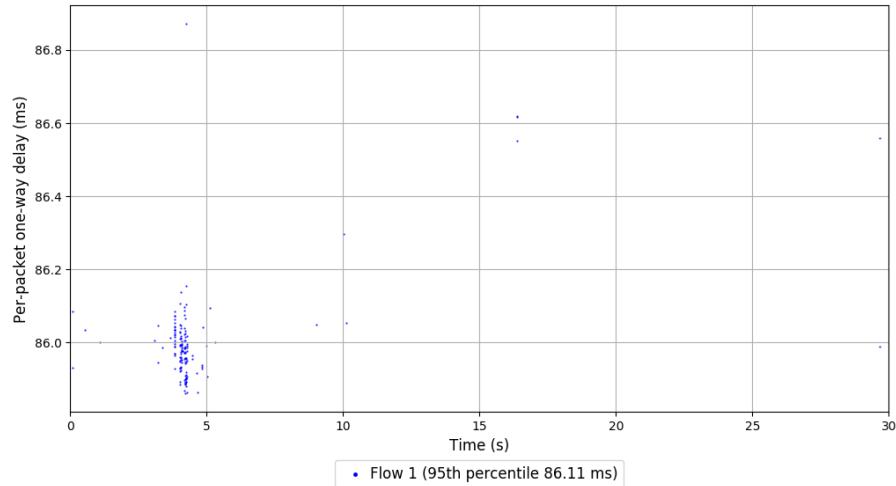
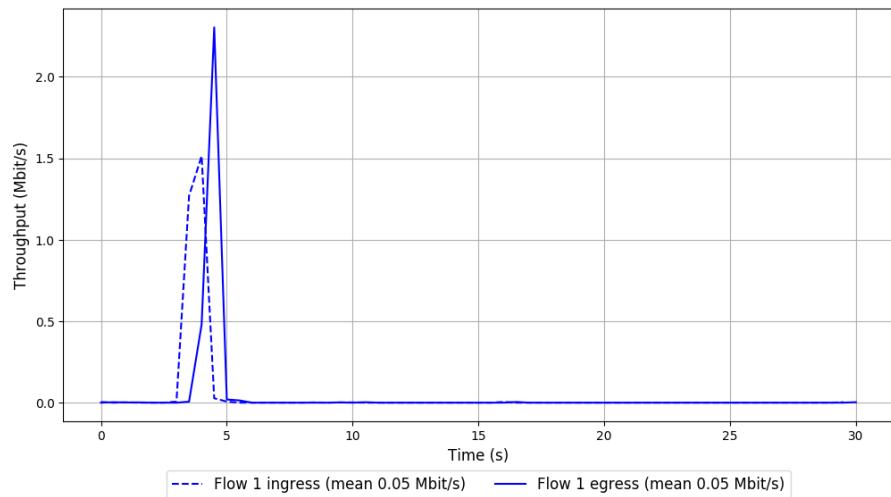


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-18 18:56:34
End at: 2019-01-18 18:57:04
Local clock offset: 16.309 ms
Remote clock offset: 14.402 ms

# Below is generated by plot.py at 2019-01-18 22:24:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.106 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.106 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

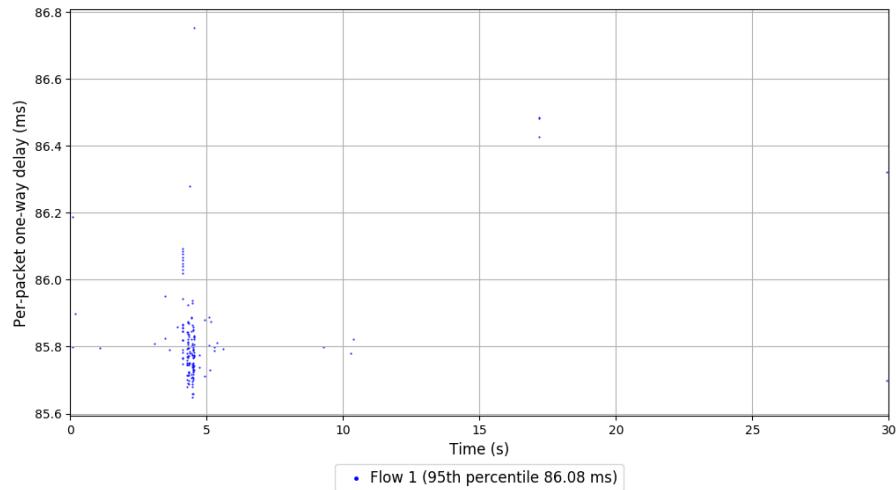
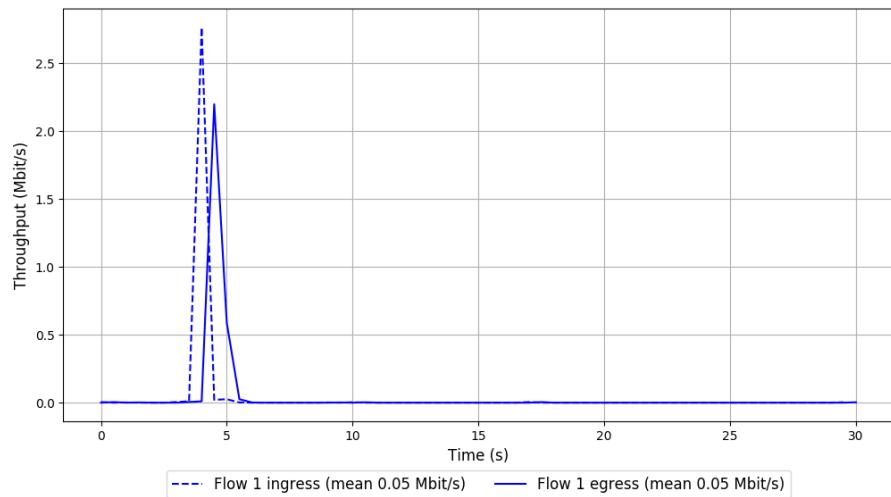


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-18 19:28:58
End at: 2019-01-18 19:29:28
Local clock offset: 8.035 ms
Remote clock offset: 7.178 ms

# Below is generated by plot.py at 2019-01-18 22:24:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.085 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-01-18 20:01:20
End at: 2019-01-18 20:01:50
Local clock offset: 3.145 ms
Remote clock offset: 3.448 ms

# Below is generated by plot.py at 2019-01-18 22:24:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.325 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.325 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

