

## Pantheon Report

Generated at 2019-02-19 23:41:44 (UTC).  
Data path: GCE Sydney on `ens4 (local)` → GCE Iowa on `ens4 (remote)`.  
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:

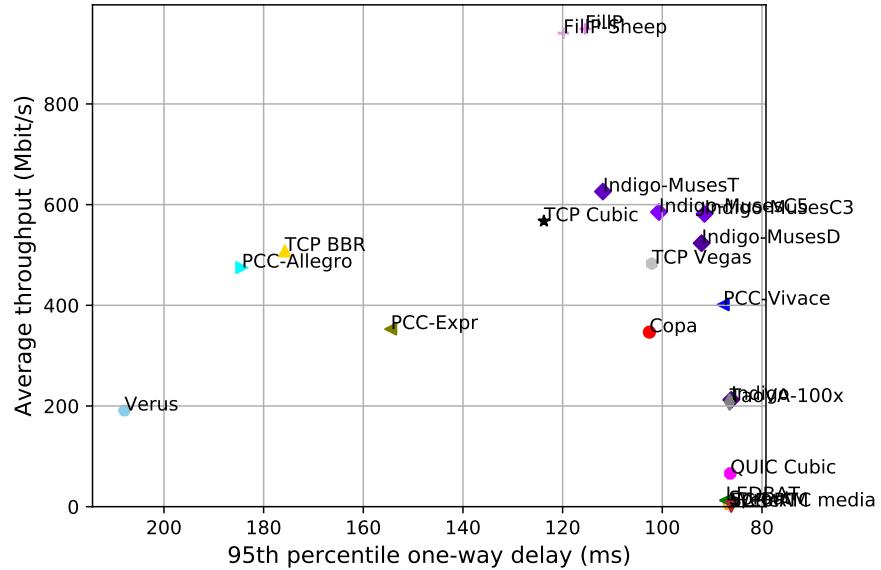
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

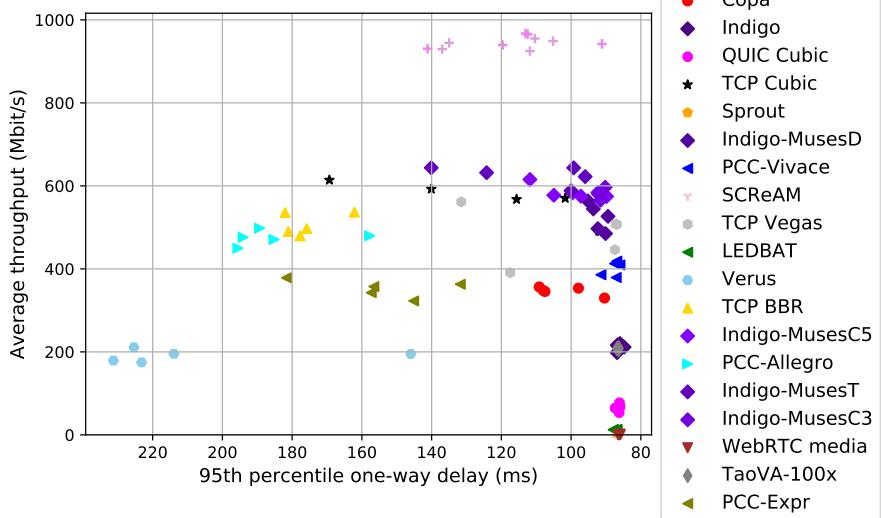
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d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

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



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



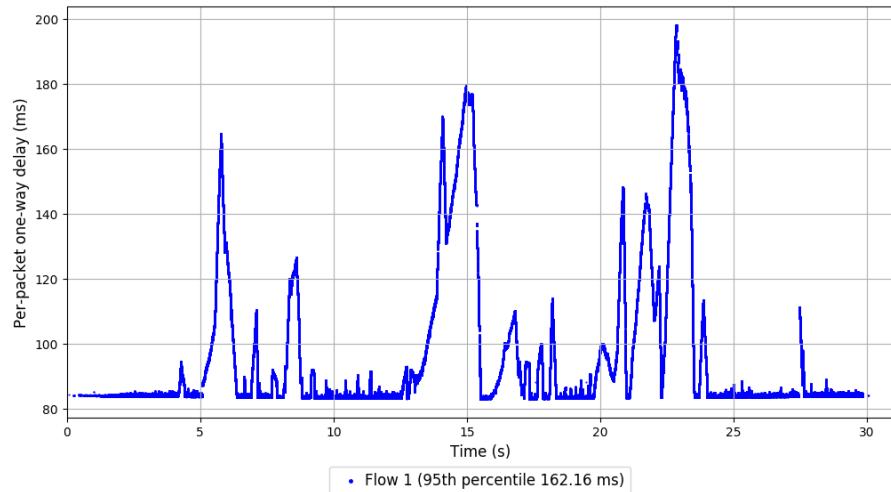
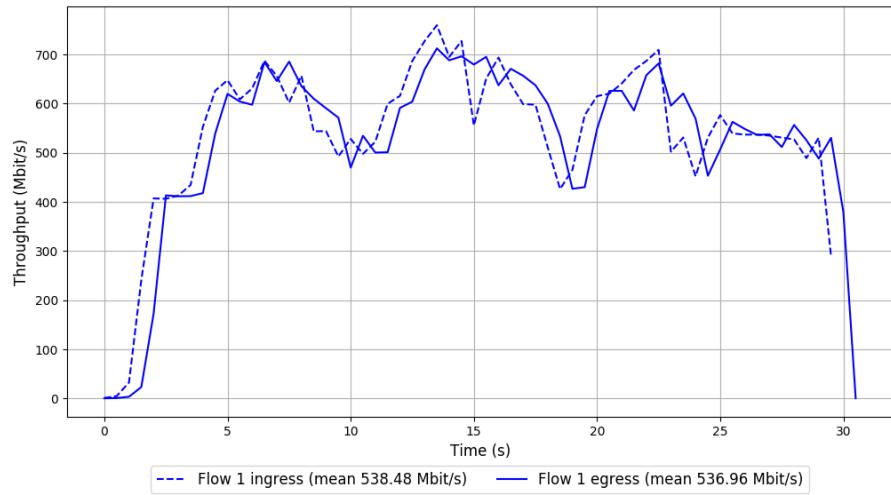
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	507.97	175.76	0.77
Copa	5	346.68	102.59	0.00
TCP Cubic	5	567.14	123.76	0.13
FillP	5	948.96	115.49	0.32
FillP-Sheep	5	940.61	119.86	0.30
Indigo	5	212.24	86.17	0.00
Indigo-MusesC3	4	581.52	91.53	0.02
Indigo-MusesC5	5	585.17	100.67	0.00
Indigo-MusesD	5	523.35	92.12	0.00
Indigo-MusesT	5	625.95	111.91	0.06
LEDBAT	5	12.58	87.30	0.00
PCC-Allegro	5	474.89	184.39	2.14
PCC-Expr	5	352.83	154.50	2.60
QUIC Cubic	5	66.03	86.35	0.00
SCReAM	5	0.22	86.49	0.00
Sprout	5	4.46	86.66	0.00
TaoVA-100x	5	207.87	86.50	0.00
TCP Vegas	5	482.78	102.10	0.01
Verus	5	191.09	207.94	5.08
PCC-Vivace	5	401.22	87.78	0.00
WebRTC media	5	0.66	86.15	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-02-19 18:34:09
End at: 2019-02-19 18:34:39
Local clock offset: 6.754 ms
Remote clock offset: 5.983 ms

# Below is generated by plot.py at 2019-02-19 21:54:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 536.96 Mbit/s
95th percentile per-packet one-way delay: 162.159 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 536.96 Mbit/s
95th percentile per-packet one-way delay: 162.159 ms
Loss rate: 0.28%
```

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

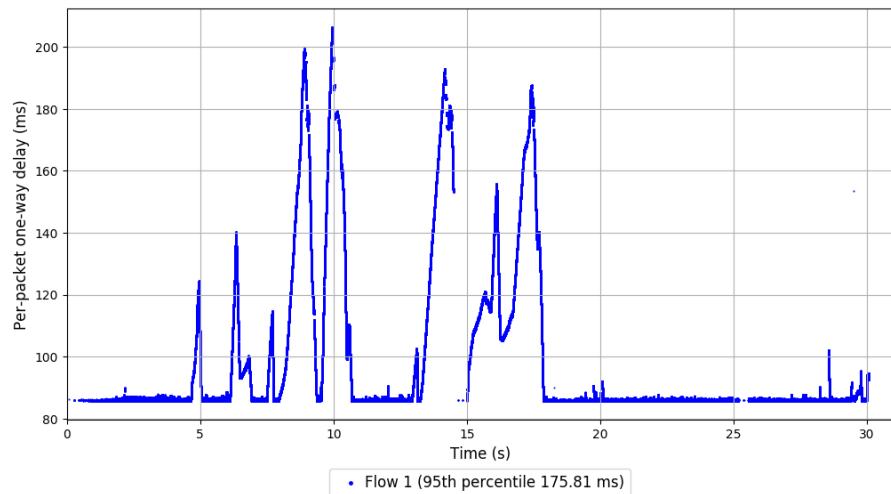
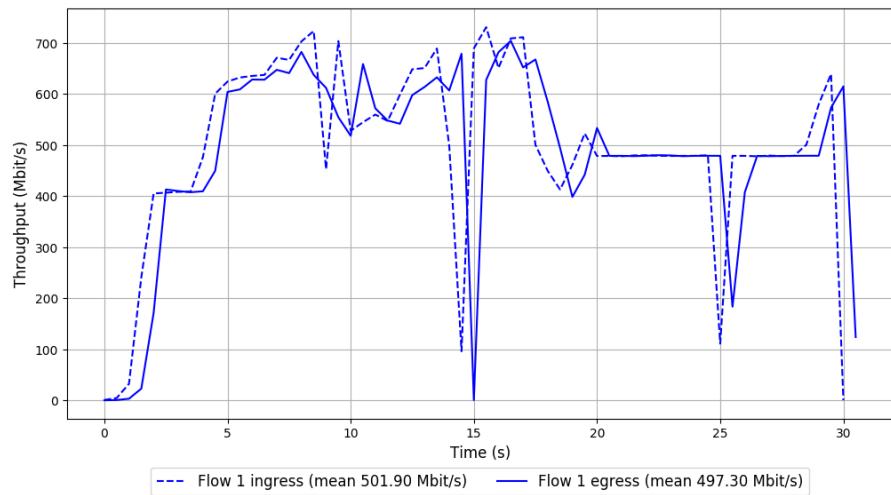


Run 2: Statistics of TCP BBR

```
Start at: 2019-02-19 19:11:01
End at: 2019-02-19 19:11:31
Local clock offset: 18.805 ms
Remote clock offset: 18.883 ms

# Below is generated by plot.py at 2019-02-19 21:54:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 497.30 Mbit/s
95th percentile per-packet one-way delay: 175.813 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 497.30 Mbit/s
95th percentile per-packet one-way delay: 175.813 ms
Loss rate: 0.92%
```

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

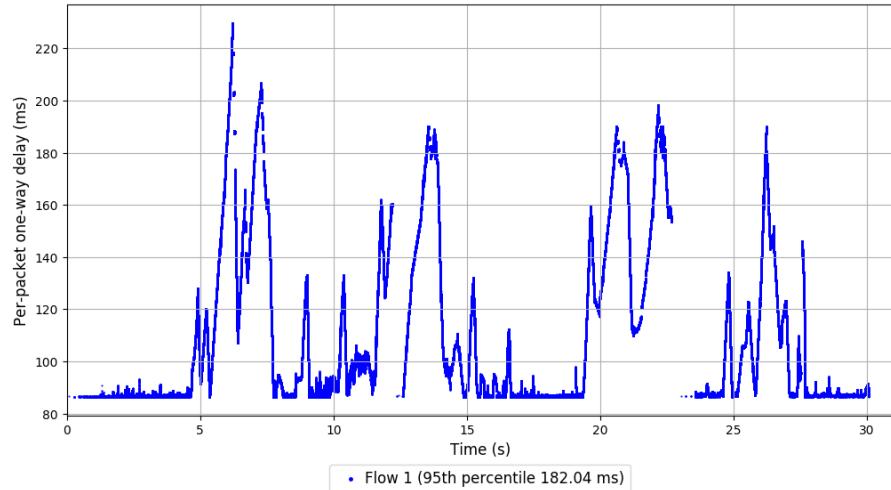
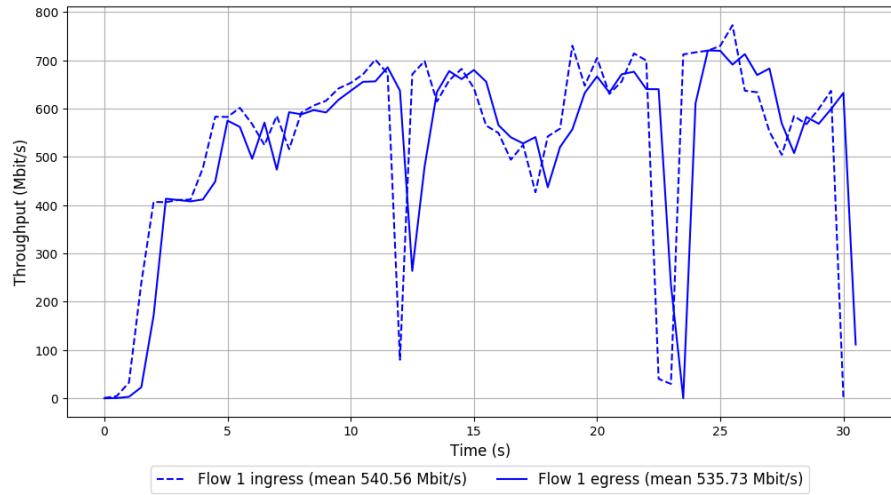


Run 3: Statistics of TCP BBR

```
Start at: 2019-02-19 19:47:55
End at: 2019-02-19 19:48:25
Local clock offset: 16.594 ms
Remote clock offset: 15.006 ms

# Below is generated by plot.py at 2019-02-19 21:54:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 535.73 Mbit/s
95th percentile per-packet one-way delay: 182.040 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 535.73 Mbit/s
95th percentile per-packet one-way delay: 182.040 ms
Loss rate: 0.89%
```

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

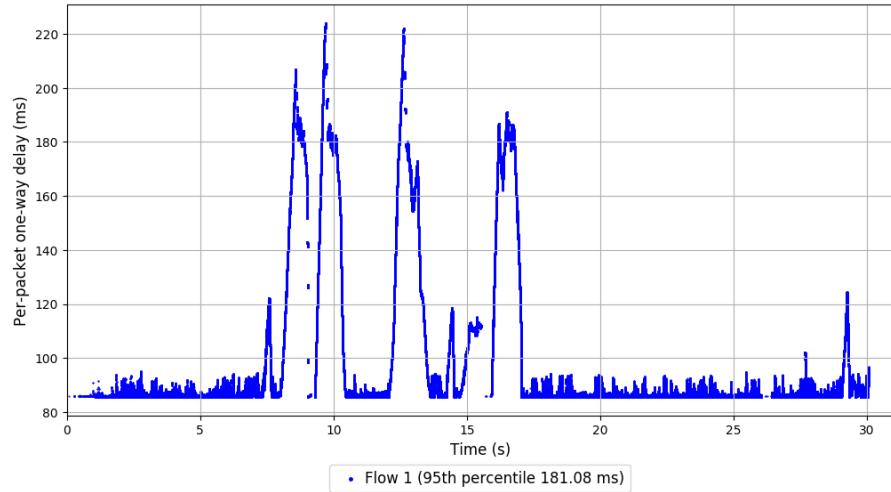
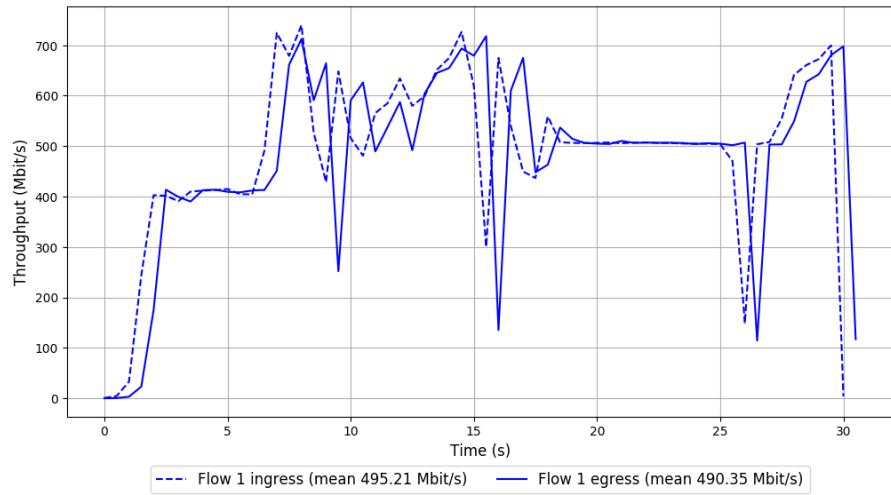


Run 4: Statistics of TCP BBR

```
Start at: 2019-02-19 20:23:03
End at: 2019-02-19 20:23:33
Local clock offset: 6.477 ms
Remote clock offset: 4.103 ms

# Below is generated by plot.py at 2019-02-19 21:54:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 490.35 Mbit/s
95th percentile per-packet one-way delay: 181.082 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 490.35 Mbit/s
95th percentile per-packet one-way delay: 181.082 ms
Loss rate: 0.98%
```

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

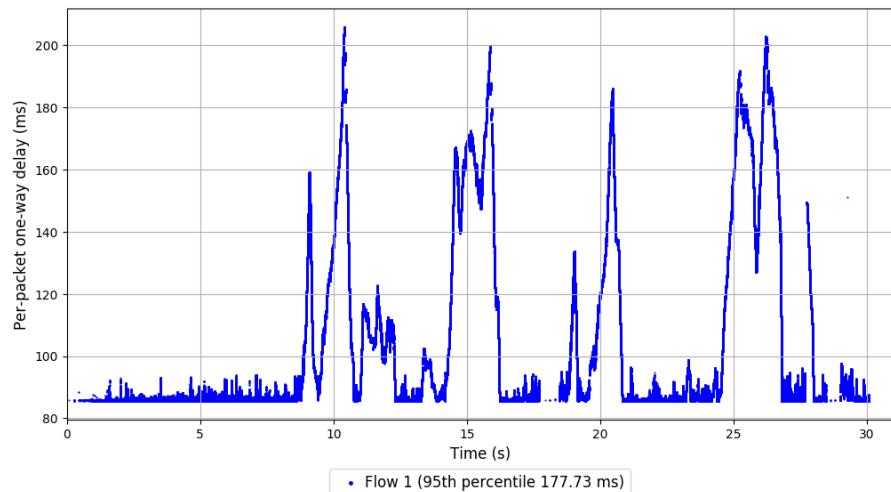
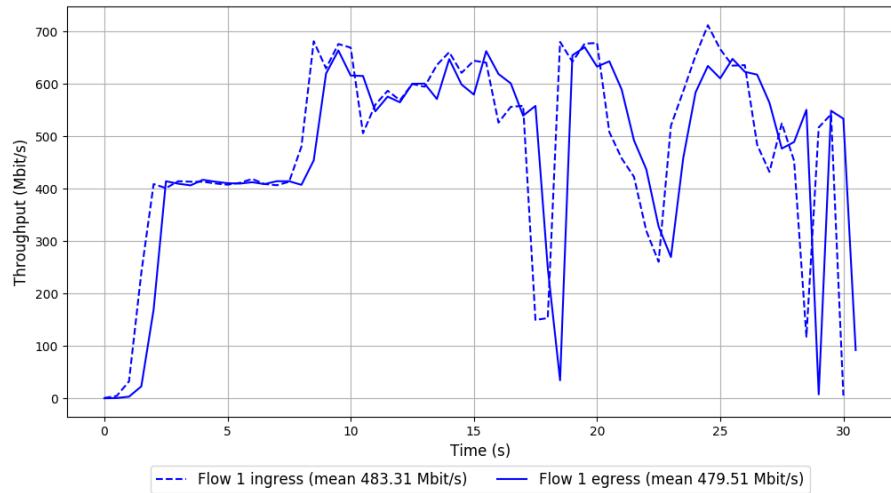


Run 5: Statistics of TCP BBR

```
Start at: 2019-02-19 20:59:06
End at: 2019-02-19 20:59:36
Local clock offset: 2.075 ms
Remote clock offset: 1.644 ms

# Below is generated by plot.py at 2019-02-19 21:54:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 479.51 Mbit/s
95th percentile per-packet one-way delay: 177.728 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 479.51 Mbit/s
95th percentile per-packet one-way delay: 177.728 ms
Loss rate: 0.79%
```

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

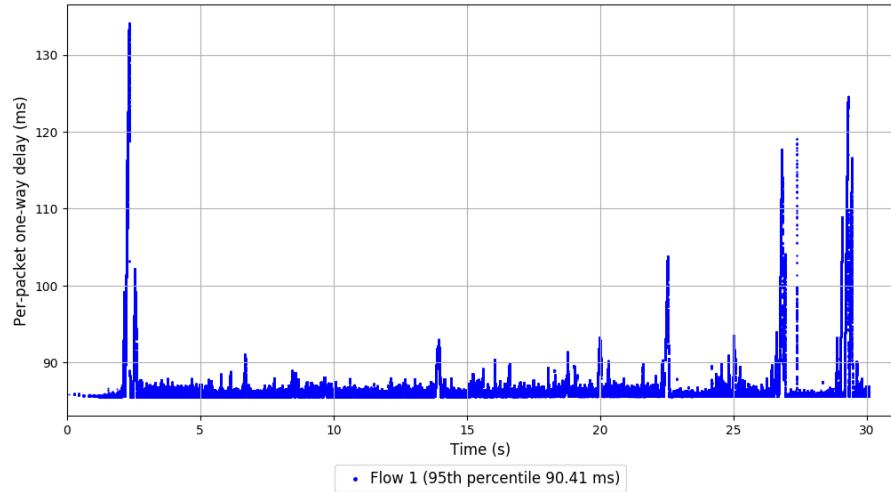
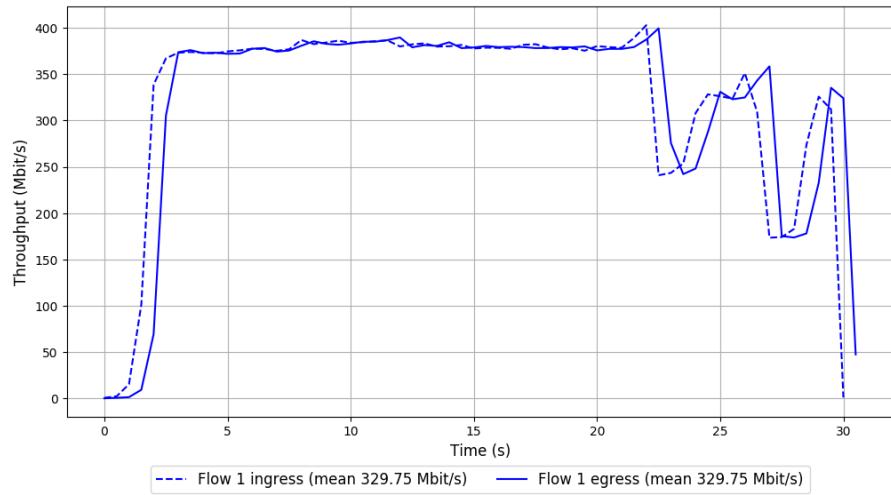


Run 1: Statistics of Copa

```
Start at: 2019-02-19 19:07:06
End at: 2019-02-19 19:07:36
Local clock offset: 21.062 ms
Remote clock offset: 21.331 ms

# Below is generated by plot.py at 2019-02-19 21:55:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 329.75 Mbit/s
95th percentile per-packet one-way delay: 90.411 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 329.75 Mbit/s
95th percentile per-packet one-way delay: 90.411 ms
Loss rate: 0.00%
```

## Run 1: Report of Copa — Data Link

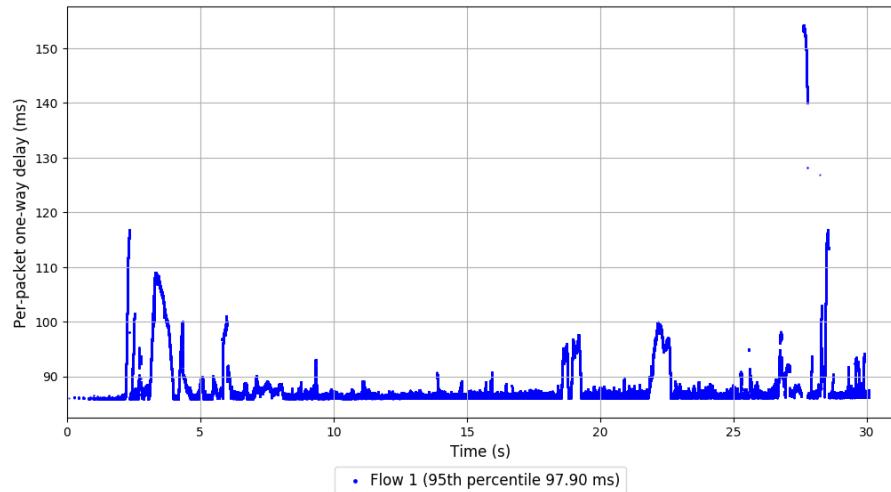
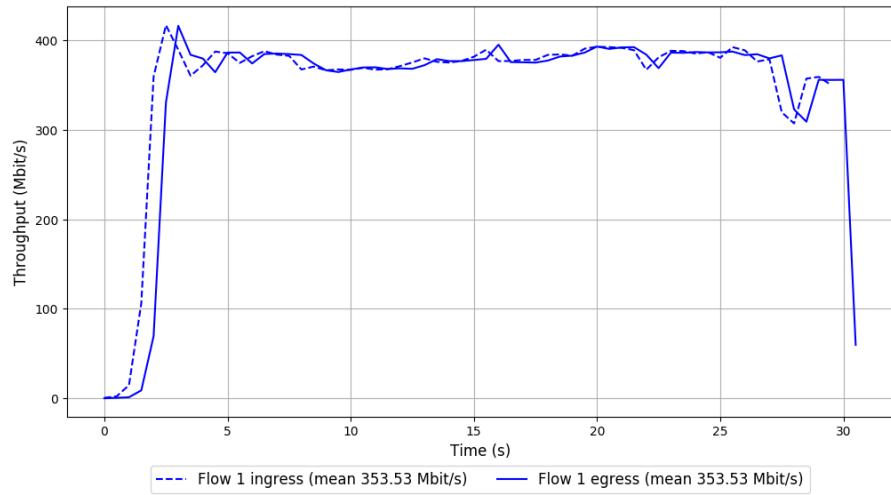


Run 2: Statistics of Copa

```
Start at: 2019-02-19 19:44:19
End at: 2019-02-19 19:44:49
Local clock offset: 21.04 ms
Remote clock offset: 20.943 ms

# Below is generated by plot.py at 2019-02-19 21:56:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 353.53 Mbit/s
95th percentile per-packet one-way delay: 97.896 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 353.53 Mbit/s
95th percentile per-packet one-way delay: 97.896 ms
Loss rate: 0.00%
```

## Run 2: Report of Copa — Data Link

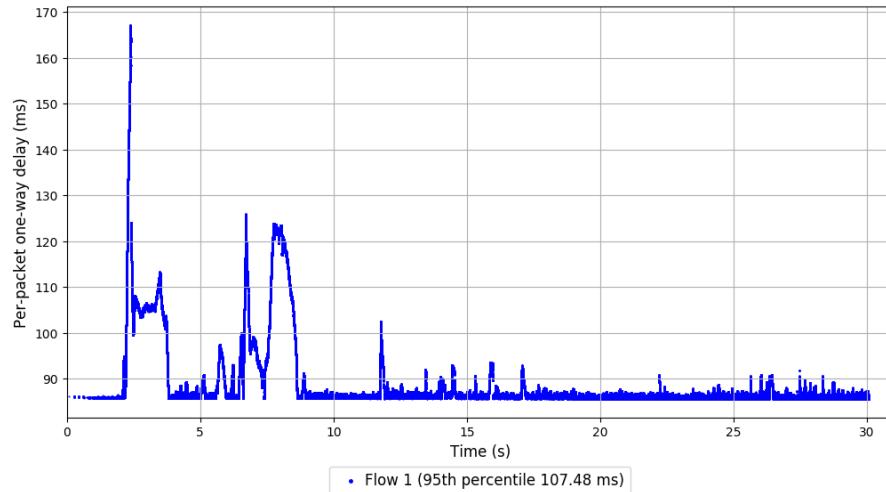
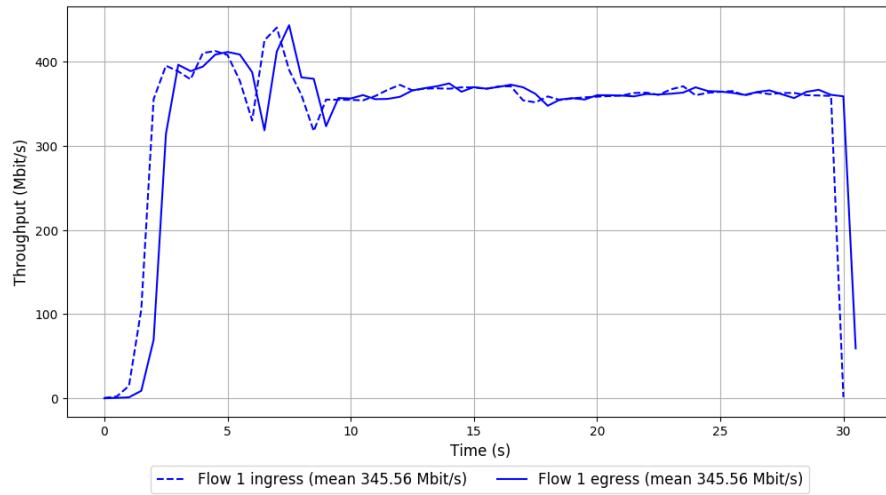


Run 3: Statistics of Copa

```
Start at: 2019-02-19 20:19:44
End at: 2019-02-19 20:20:14
Local clock offset: 8.388 ms
Remote clock offset: 5.054 ms

# Below is generated by plot.py at 2019-02-19 21:56:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 345.56 Mbit/s
95th percentile per-packet one-way delay: 107.485 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 345.56 Mbit/s
95th percentile per-packet one-way delay: 107.485 ms
Loss rate: 0.00%
```

### Run 3: Report of Copa — Data Link

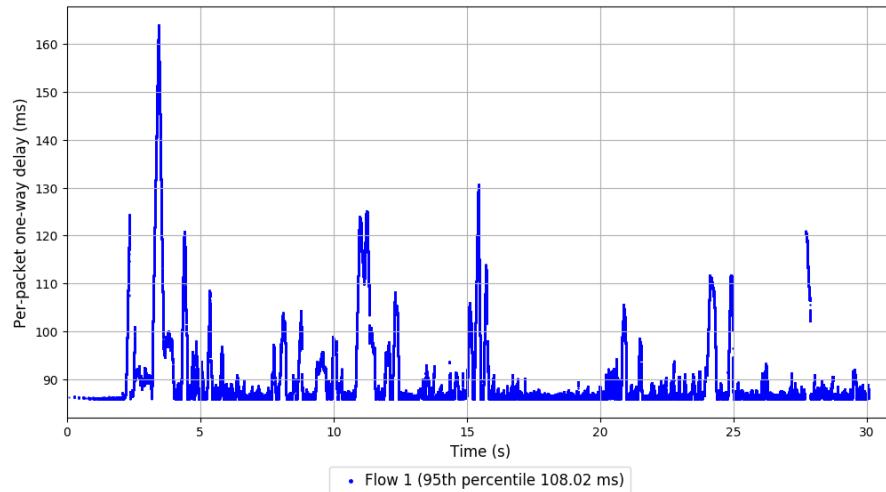
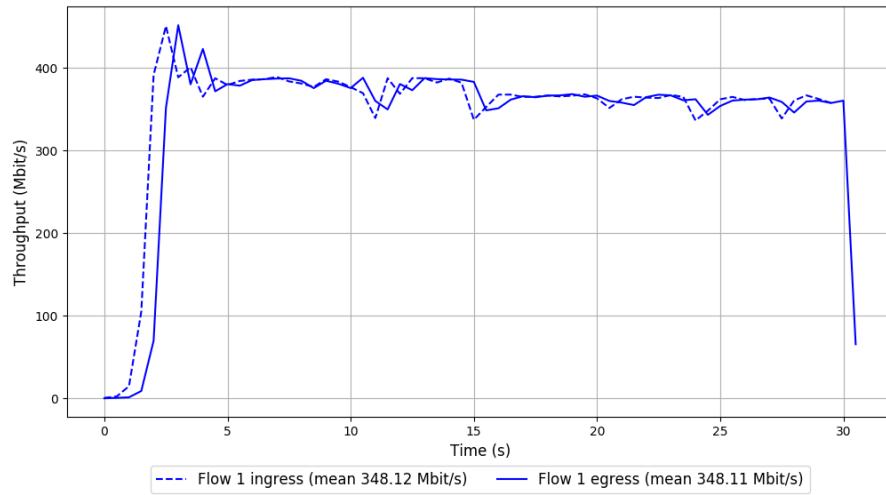


Run 4: Statistics of Copa

```
Start at: 2019-02-19 20:55:10
End at: 2019-02-19 20:55:40
Local clock offset: 2.026 ms
Remote clock offset: 2.059 ms

# Below is generated by plot.py at 2019-02-19 22:05:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 348.11 Mbit/s
95th percentile per-packet one-way delay: 108.015 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 348.11 Mbit/s
95th percentile per-packet one-way delay: 108.015 ms
Loss rate: 0.00%
```

### Run 4: Report of Copa — Data Link

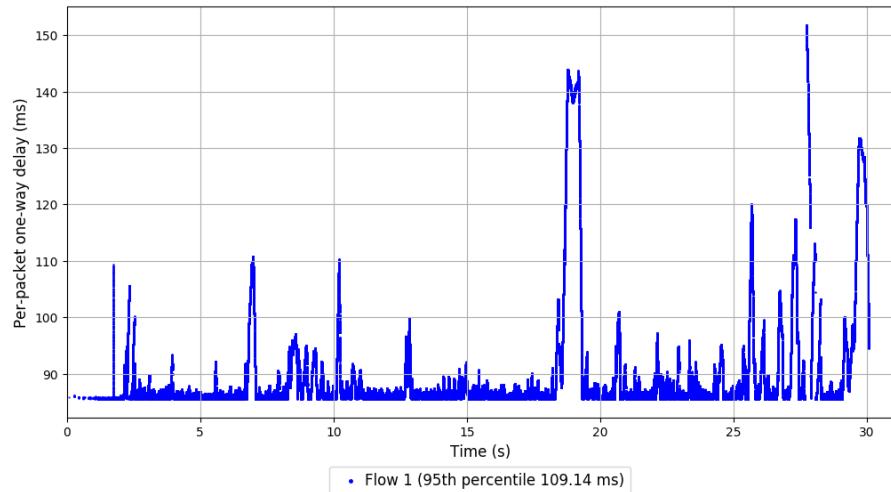
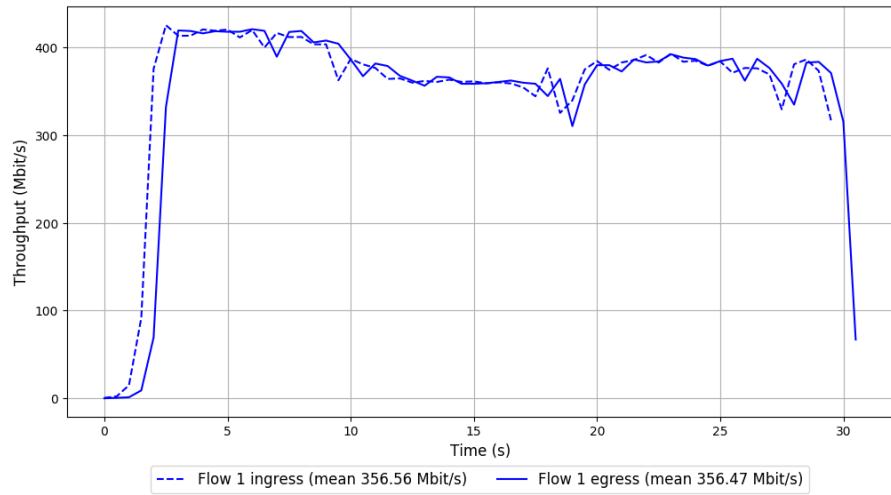


Run 5: Statistics of Copa

```
Start at: 2019-02-19 21:30:21
End at: 2019-02-19 21:30:51
Local clock offset: 1.128 ms
Remote clock offset: 0.882 ms

# Below is generated by plot.py at 2019-02-19 22:06:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.47 Mbit/s
95th percentile per-packet one-way delay: 109.140 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 356.47 Mbit/s
95th percentile per-packet one-way delay: 109.140 ms
Loss rate: 0.02%
```

### Run 5: Report of Copa — Data Link

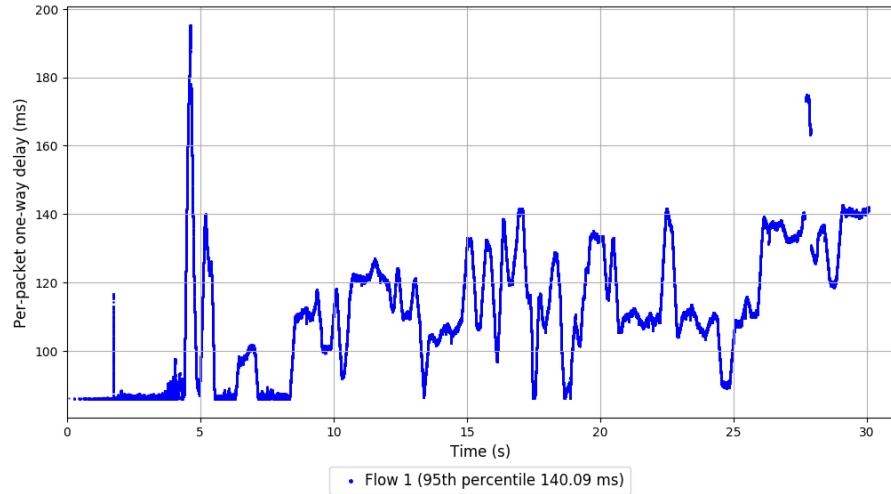
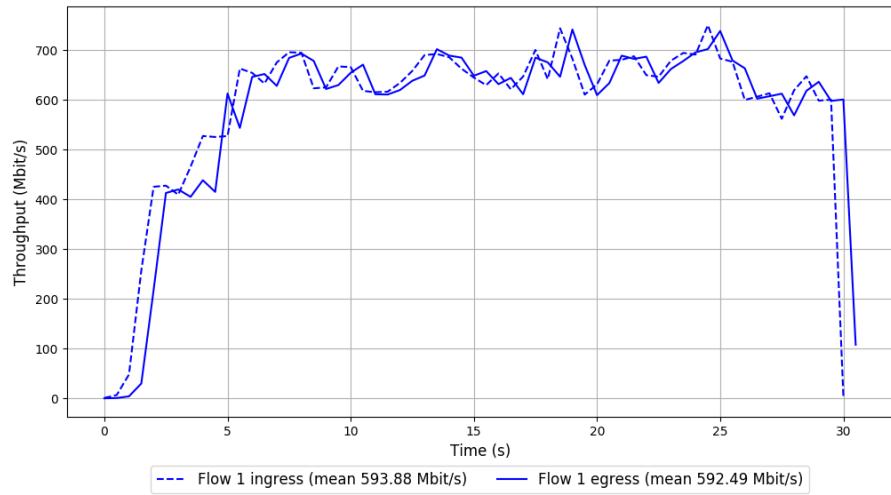


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-02-19 18:48:01
End at: 2019-02-19 18:48:31
Local clock offset: 14.14 ms
Remote clock offset: 15.619 ms

# Below is generated by plot.py at 2019-02-19 22:06:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 592.49 Mbit/s
95th percentile per-packet one-way delay: 140.090 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 592.49 Mbit/s
95th percentile per-packet one-way delay: 140.090 ms
Loss rate: 0.23%
```

Run 1: Report of TCP Cubic — Data Link

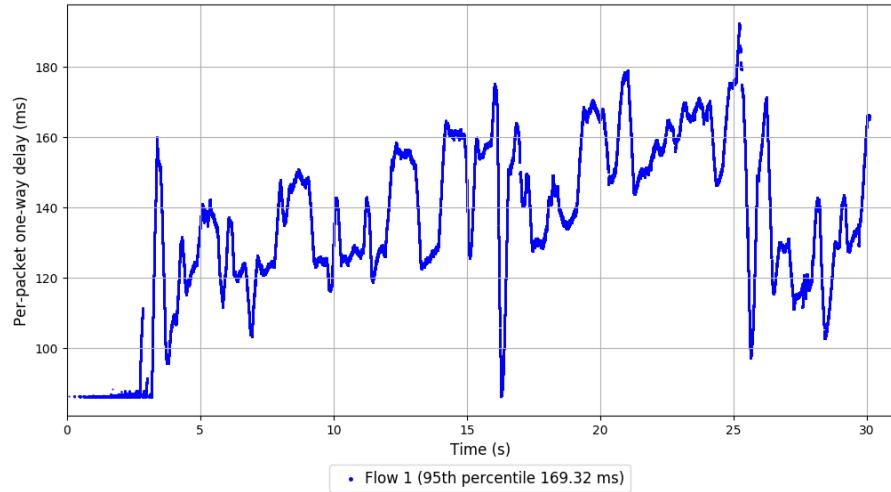
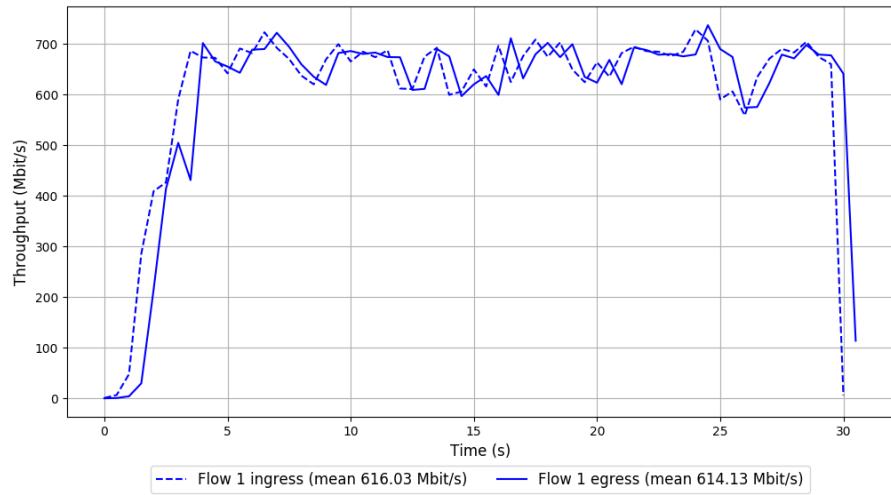


Run 2: Statistics of TCP Cubic

```
Start at: 2019-02-19 19:25:06
End at: 2019-02-19 19:25:36
Local clock offset: 25.301 ms
Remote clock offset: 24.785 ms

# Below is generated by plot.py at 2019-02-19 22:06:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 614.13 Mbit/s
95th percentile per-packet one-way delay: 169.318 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 614.13 Mbit/s
95th percentile per-packet one-way delay: 169.318 ms
Loss rate: 0.30%
```

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

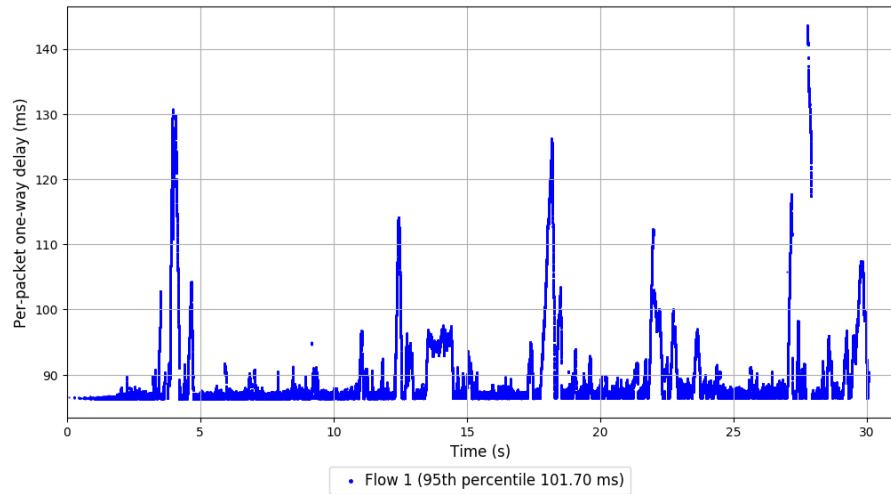
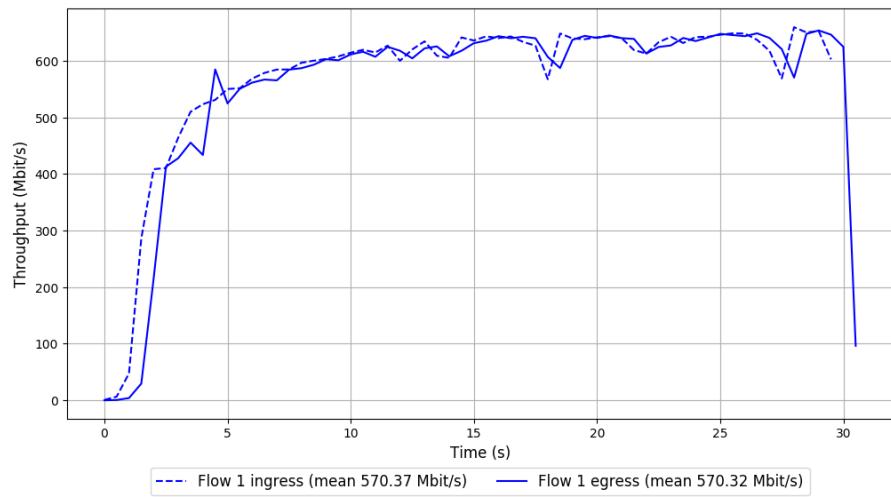


Run 3: Statistics of TCP Cubic

```
Start at: 2019-02-19 20:01:52
End at: 2019-02-19 20:02:22
Local clock offset: 14.936 ms
Remote clock offset: 8.608 ms

# Below is generated by plot.py at 2019-02-19 22:06:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 570.32 Mbit/s
95th percentile per-packet one-way delay: 101.696 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 570.32 Mbit/s
95th percentile per-packet one-way delay: 101.696 ms
Loss rate: 0.01%
```

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

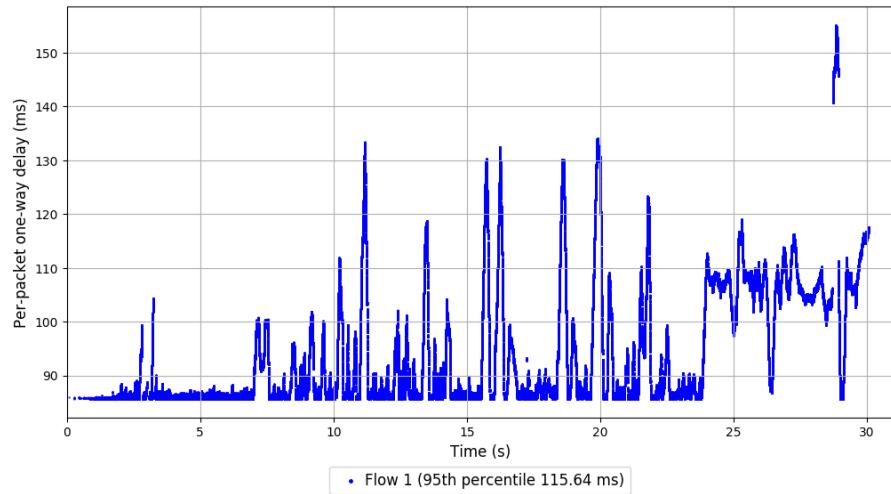
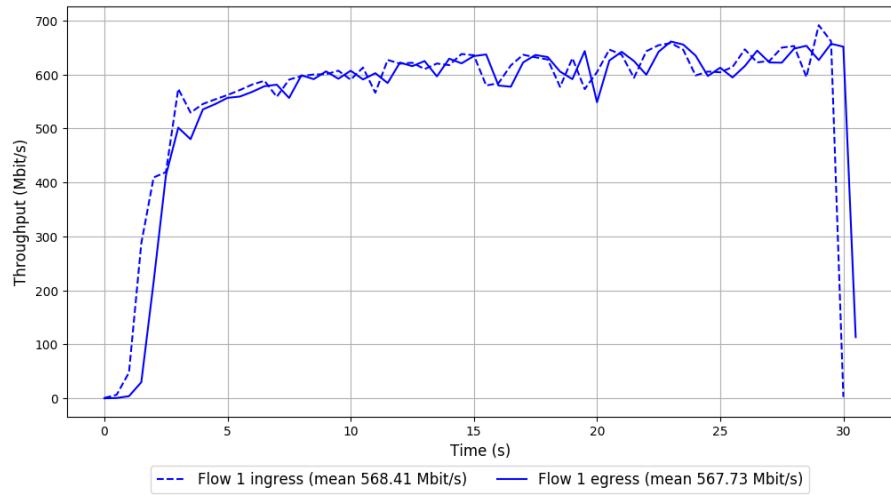


Run 4: Statistics of TCP Cubic

```
Start at: 2019-02-19 20:36:19
End at: 2019-02-19 20:36:49
Local clock offset: 4.08 ms
Remote clock offset: 3.387 ms

# Below is generated by plot.py at 2019-02-19 22:06:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.73 Mbit/s
95th percentile per-packet one-way delay: 115.639 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 567.73 Mbit/s
95th percentile per-packet one-way delay: 115.639 ms
Loss rate: 0.12%
```

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

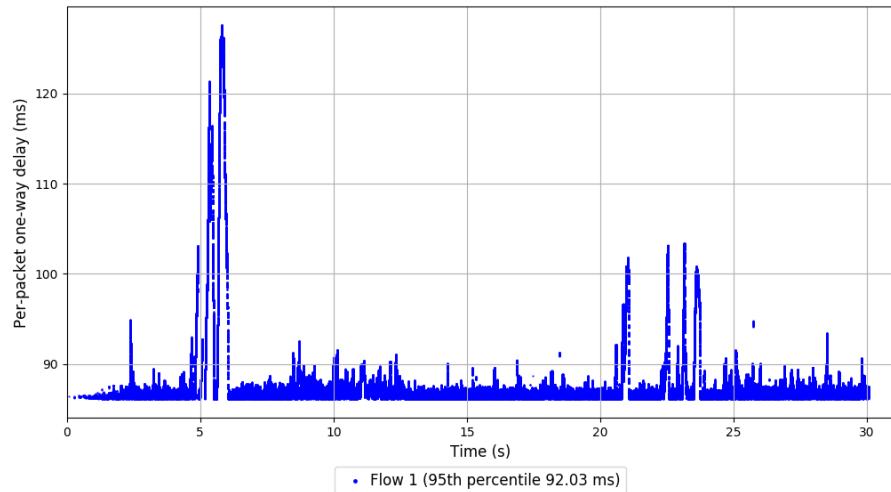
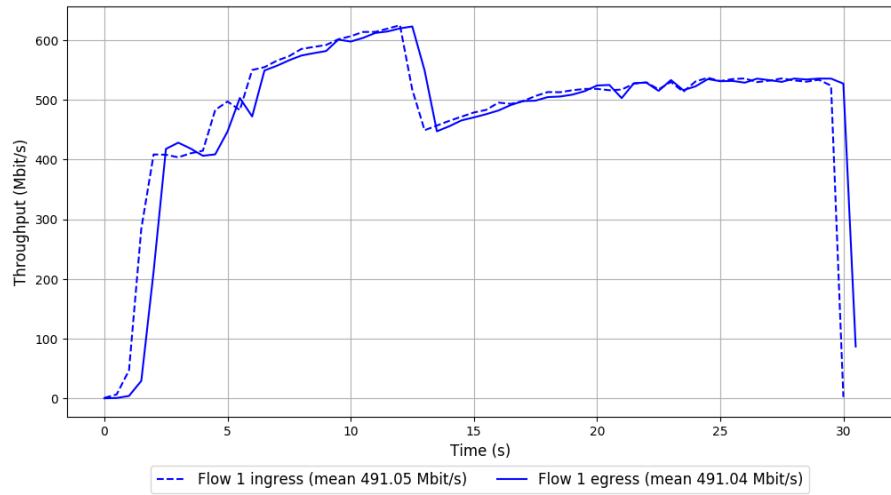


Run 5: Statistics of TCP Cubic

```
Start at: 2019-02-19 21:12:58
End at: 2019-02-19 21:13:28
Local clock offset: 1.705 ms
Remote clock offset: 1.621 ms

# Below is generated by plot.py at 2019-02-19 22:06:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 491.04 Mbit/s
95th percentile per-packet one-way delay: 92.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 491.04 Mbit/s
95th percentile per-packet one-way delay: 92.033 ms
Loss rate: 0.00%
```

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

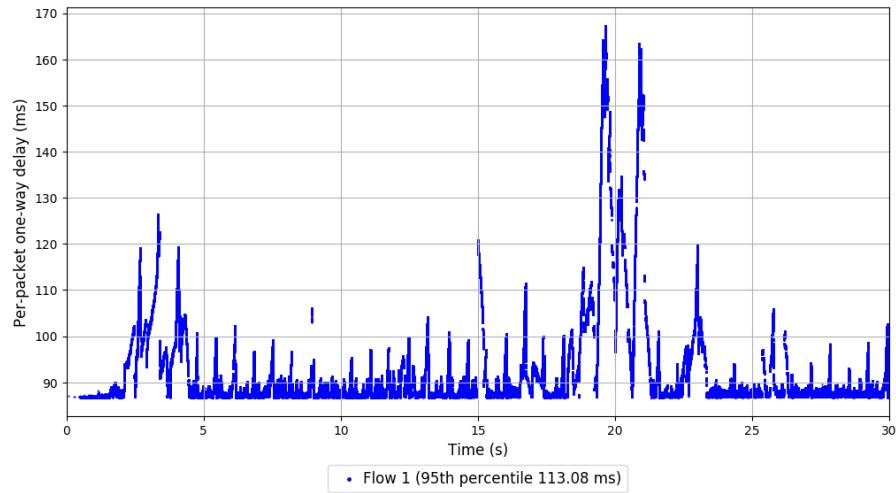
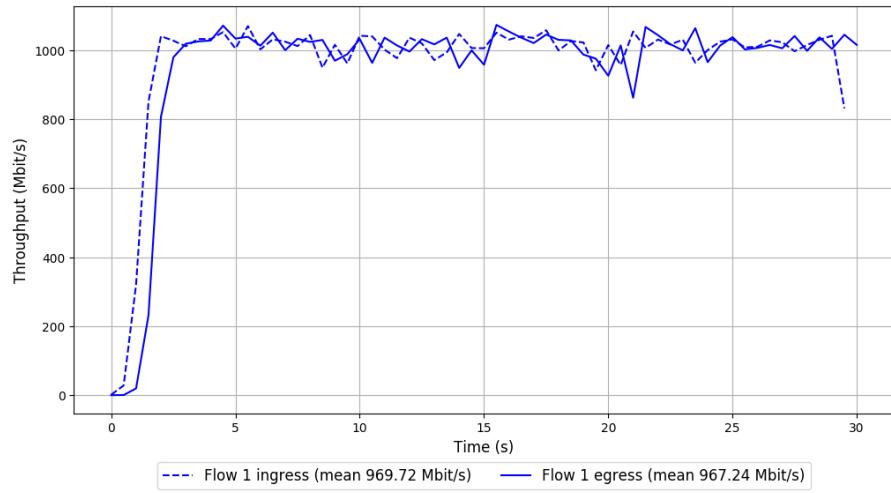


```
Run 1: Statistics of FillP

Start at: 2019-02-19 18:44:09
End at: 2019-02-19 18:44:39
Local clock offset: 12.272 ms
Remote clock offset: 11.413 ms

# Below is generated by plot.py at 2019-02-19 22:14:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 967.24 Mbit/s
95th percentile per-packet one-way delay: 113.075 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 967.24 Mbit/s
95th percentile per-packet one-way delay: 113.075 ms
Loss rate: 0.26%
```

Run 1: Report of FillP — Data Link

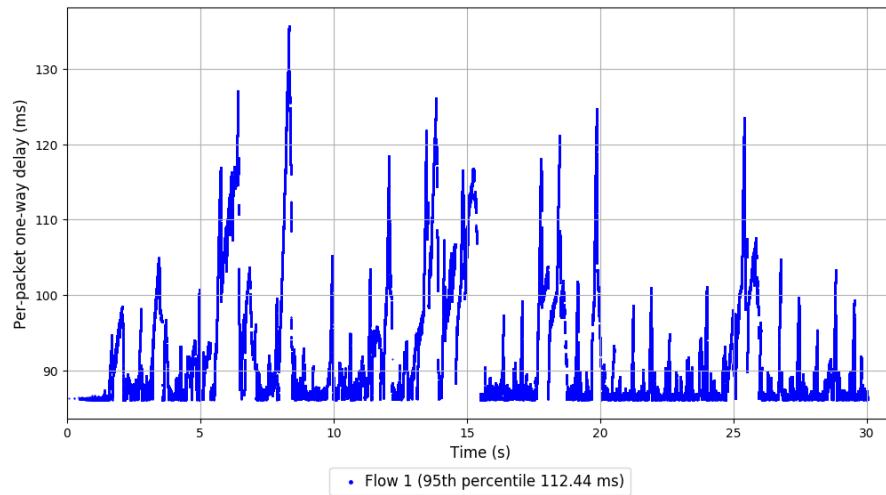
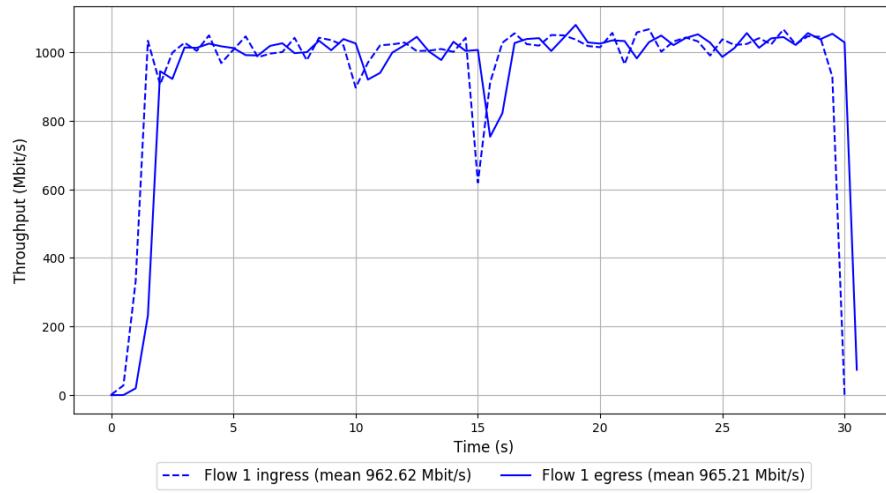


```
Run 2: Statistics of FillP
```

```
Start at: 2019-02-19 19:21:10
End at: 2019-02-19 19:21:40
Local clock offset: 22.021 ms
Remote clock offset: 21.772 ms

# Below is generated by plot.py at 2019-02-19 22:26:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 965.21 Mbit/s
95th percentile per-packet one-way delay: 112.444 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 965.21 Mbit/s
95th percentile per-packet one-way delay: 112.444 ms
Loss rate: 0.00%
```

## Run 2: Report of FillP — Data Link

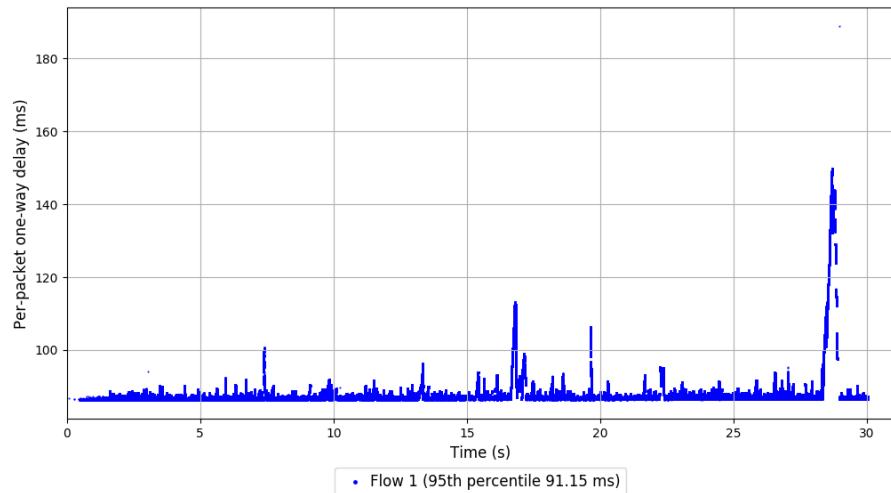
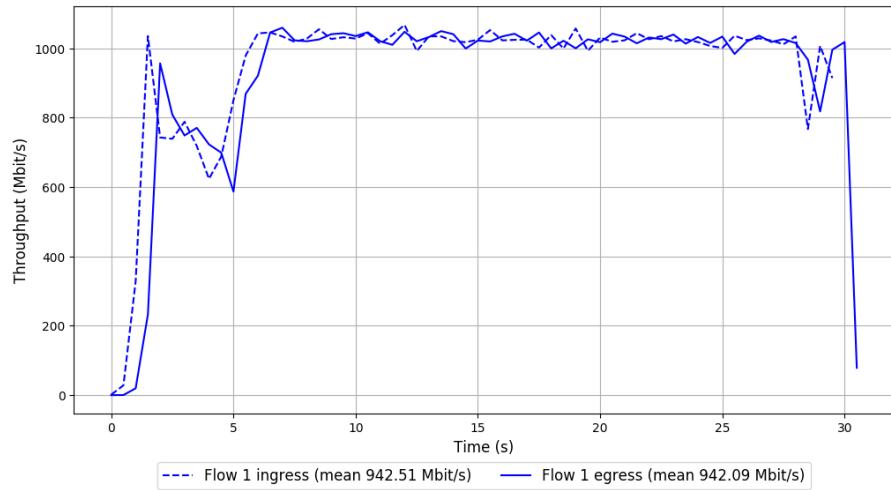


```
Run 3: Statistics of FillP
```

```
Start at: 2019-02-19 19:57:56
End at: 2019-02-19 19:58:26
Local clock offset: 14.31 ms
Remote clock offset: 9.025 ms

# Below is generated by plot.py at 2019-02-19 22:26:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 942.09 Mbit/s
95th percentile per-packet one-way delay: 91.149 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 942.09 Mbit/s
95th percentile per-packet one-way delay: 91.149 ms
Loss rate: 0.04%
```

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

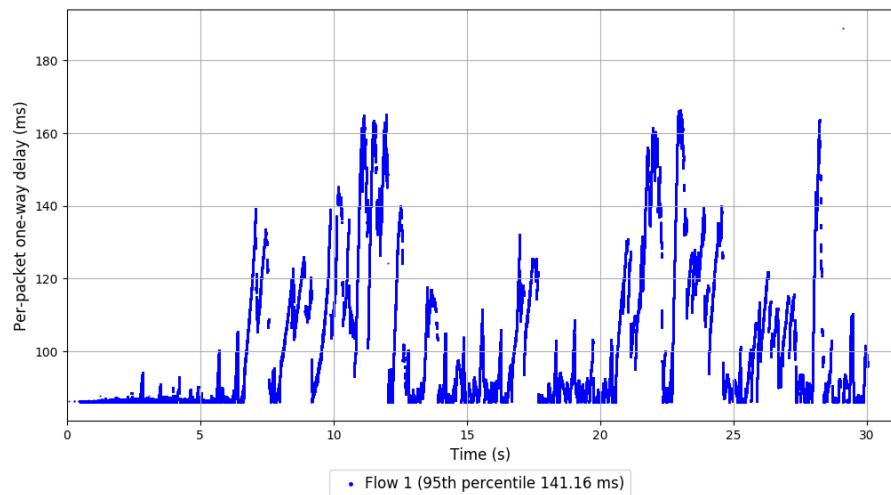
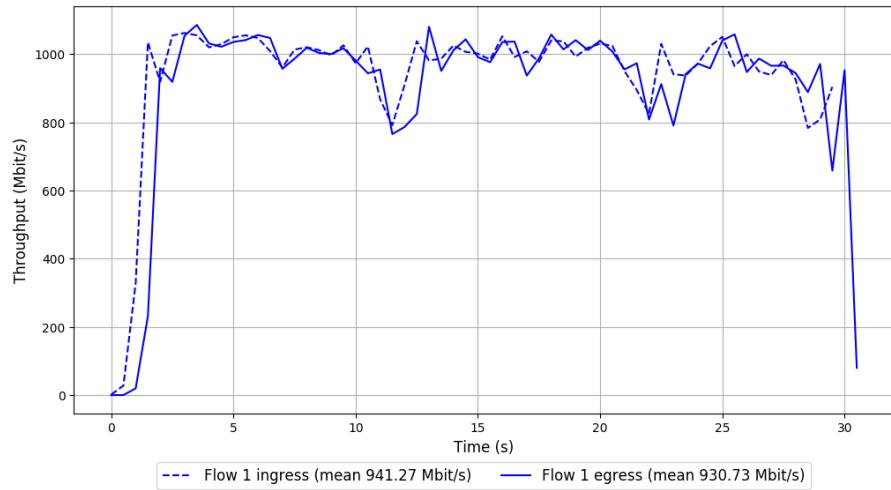


Run 4: Statistics of FillP

```
Start at: 2019-02-19 20:32:33
End at: 2019-02-19 20:33:03
Local clock offset: 4.035 ms
Remote clock offset: 3.266 ms

# Below is generated by plot.py at 2019-02-19 22:26:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 930.73 Mbit/s
95th percentile per-packet one-way delay: 141.163 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 930.73 Mbit/s
95th percentile per-packet one-way delay: 141.163 ms
Loss rate: 1.12%
```

Run 4: Report of FillP — Data Link

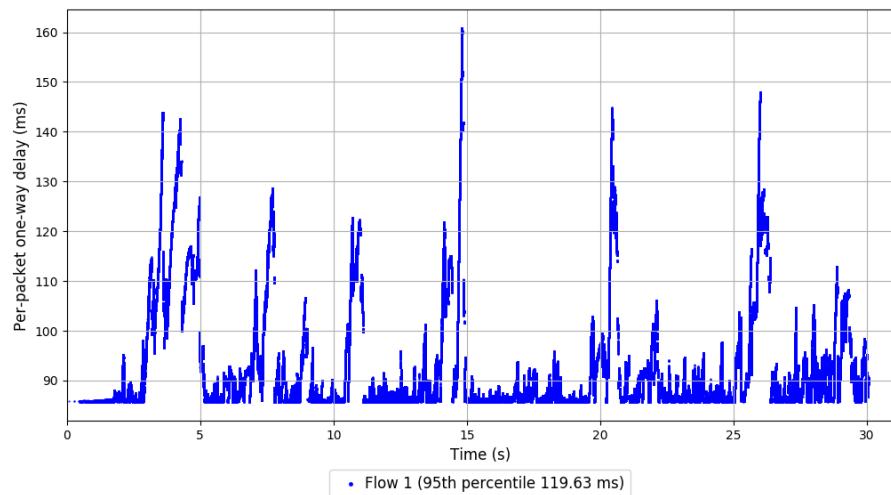
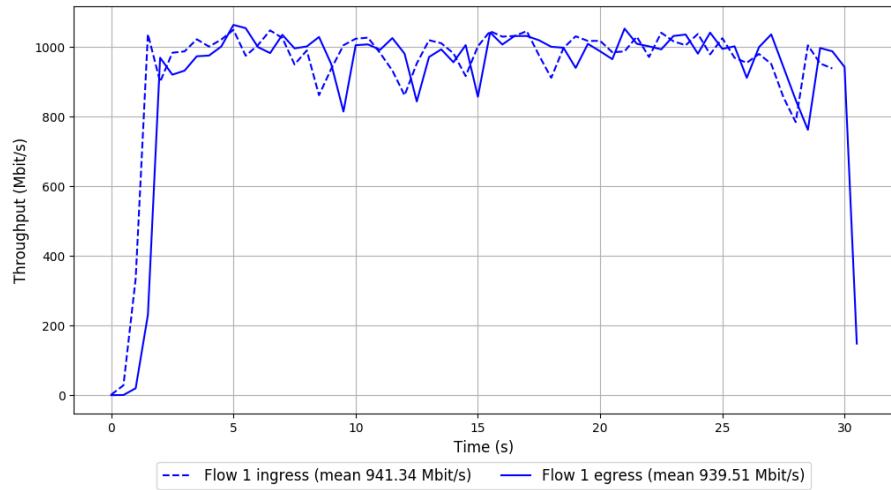


```
Run 5: Statistics of FillP
```

```
Start at: 2019-02-19 21:09:09
End at: 2019-02-19 21:09:39
Local clock offset: 1.805 ms
Remote clock offset: 1.512 ms

# Below is generated by plot.py at 2019-02-19 22:26:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 939.51 Mbit/s
95th percentile per-packet one-way delay: 119.631 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 939.51 Mbit/s
95th percentile per-packet one-way delay: 119.631 ms
Loss rate: 0.19%
```

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

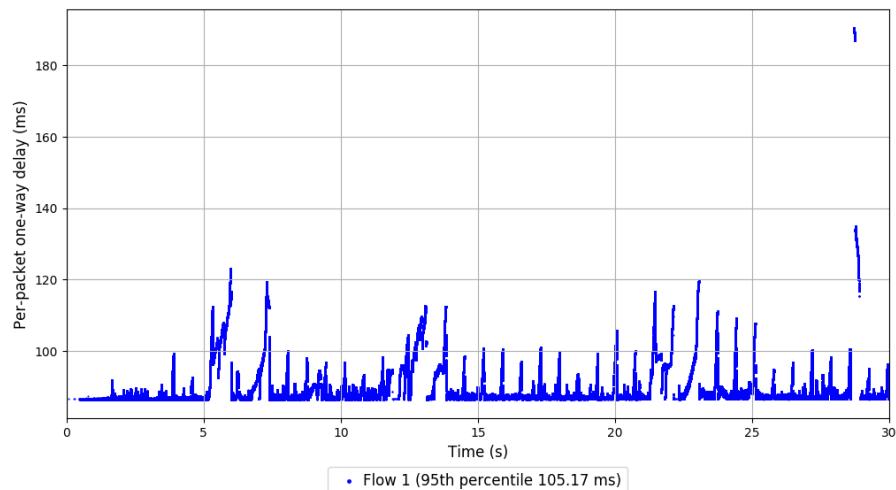
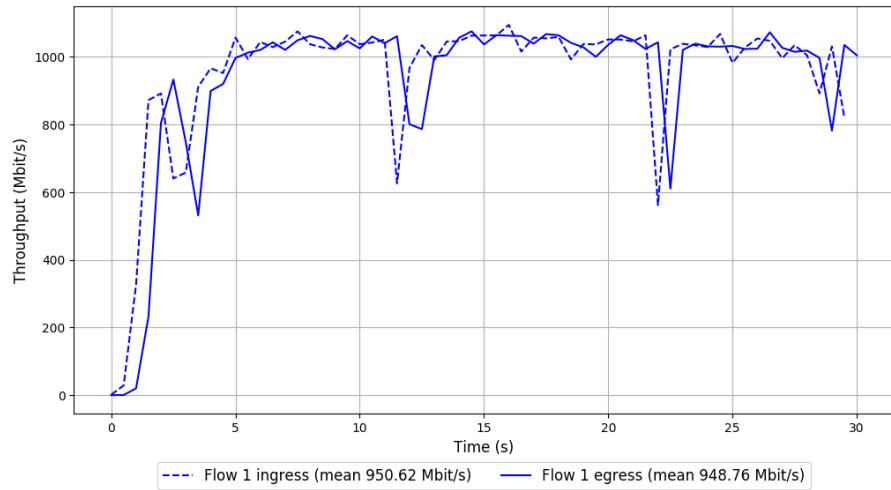


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-02-19 18:51:14
End at: 2019-02-19 18:51:44
Local clock offset: 12.016 ms
Remote clock offset: 12.493 ms

# Below is generated by plot.py at 2019-02-19 22:27:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 948.76 Mbit/s
95th percentile per-packet one-way delay: 105.172 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 948.76 Mbit/s
95th percentile per-packet one-way delay: 105.172 ms
Loss rate: 0.19%
```

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

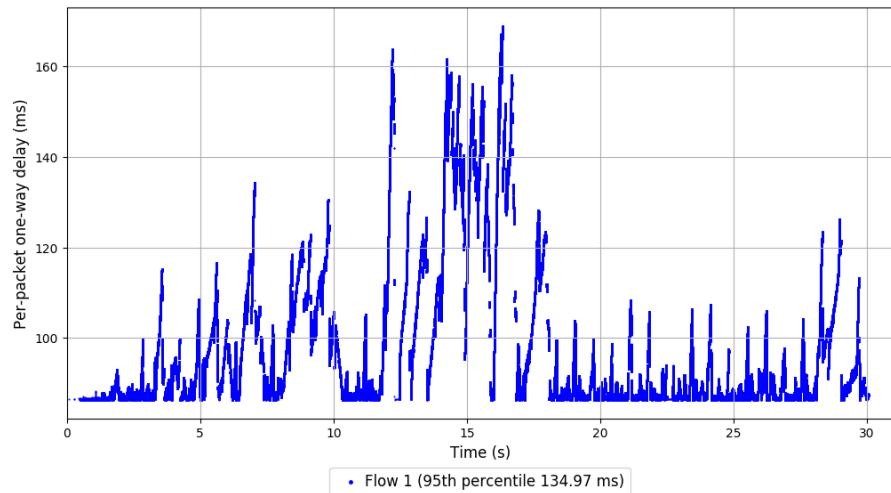
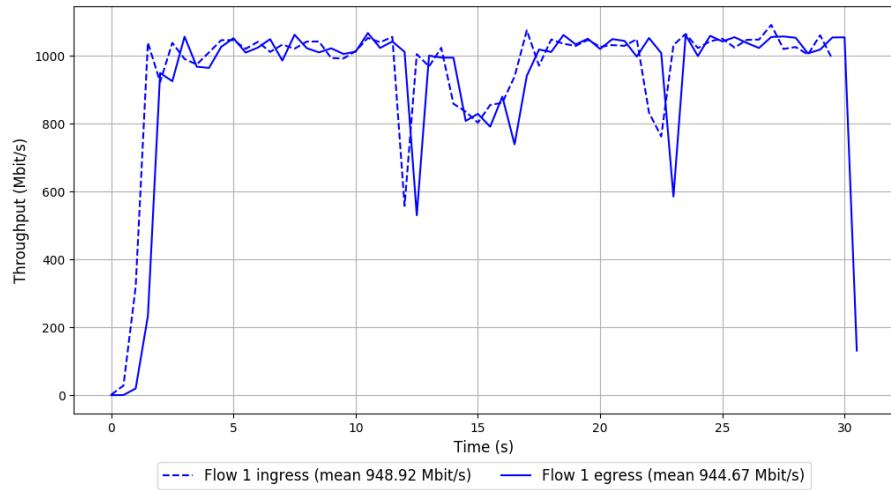


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-02-19 19:28:20
End at: 2019-02-19 19:28:50
Local clock offset: 28.033 ms
Remote clock offset: 27.521 ms

# Below is generated by plot.py at 2019-02-19 22:27:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 944.67 Mbit/s
95th percentile per-packet one-way delay: 134.972 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 944.67 Mbit/s
95th percentile per-packet one-way delay: 134.972 ms
Loss rate: 0.45%
```

Run 2: Report of FillP-Sheep — Data Link

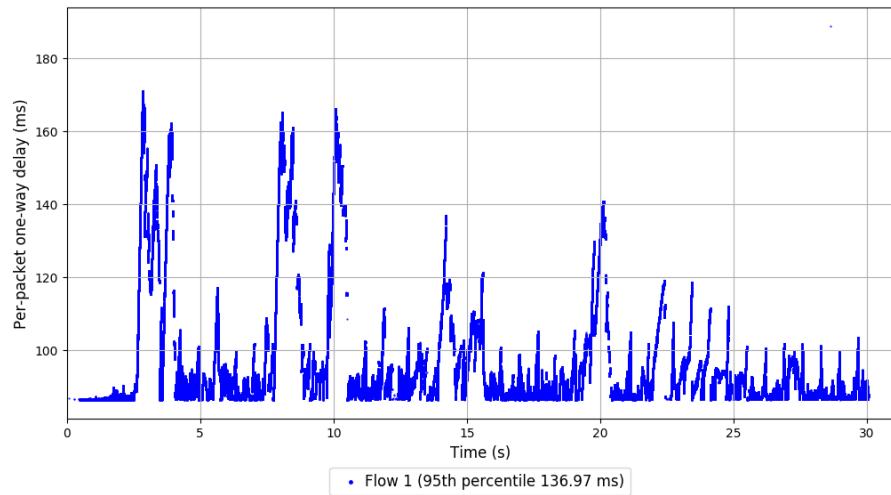
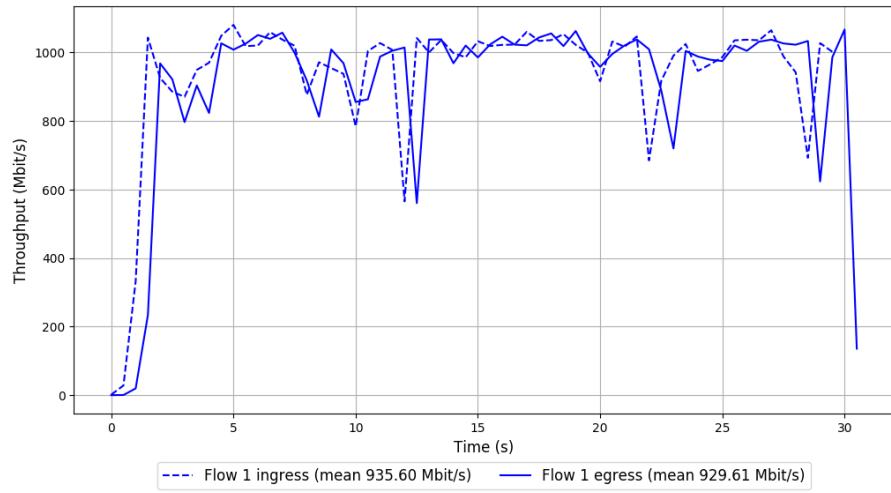


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-02-19 20:04:55
End at: 2019-02-19 20:05:25
Local clock offset: 15.811 ms
Remote clock offset: 8.674 ms

# Below is generated by plot.py at 2019-02-19 22:27:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 929.61 Mbit/s
95th percentile per-packet one-way delay: 136.969 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 929.61 Mbit/s
95th percentile per-packet one-way delay: 136.969 ms
Loss rate: 0.64%
```

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

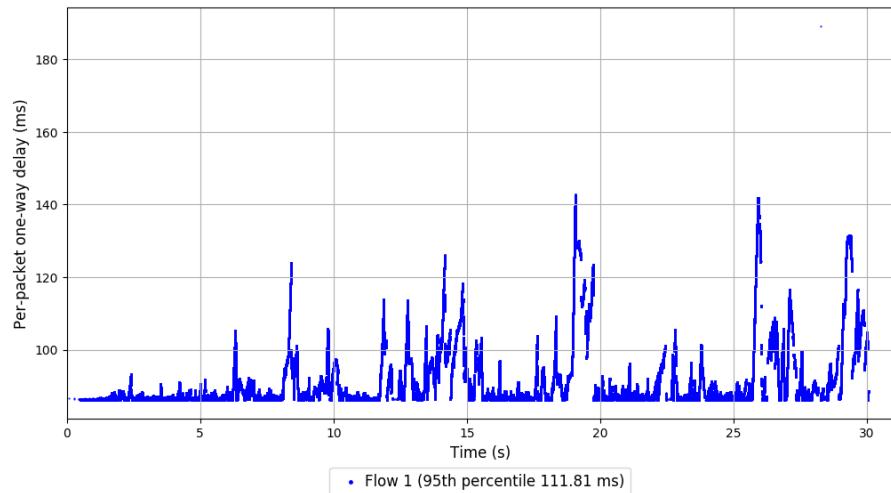
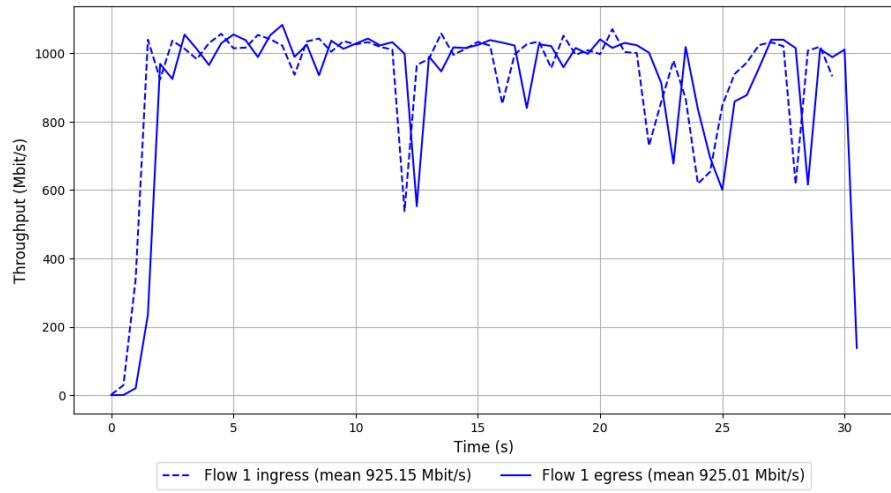


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-02-19 20:39:28
End at: 2019-02-19 20:39:58
Local clock offset: 3.635 ms
Remote clock offset: 3.577 ms

# Below is generated by plot.py at 2019-02-19 22:37:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 925.01 Mbit/s
95th percentile per-packet one-way delay: 111.814 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 925.01 Mbit/s
95th percentile per-packet one-way delay: 111.814 ms
Loss rate: 0.01%
```

Run 4: Report of FillP-Sheep — Data Link

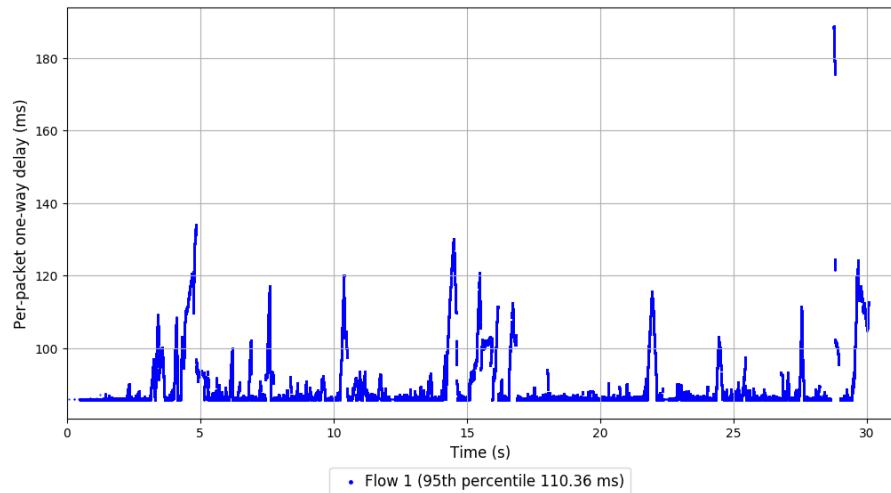
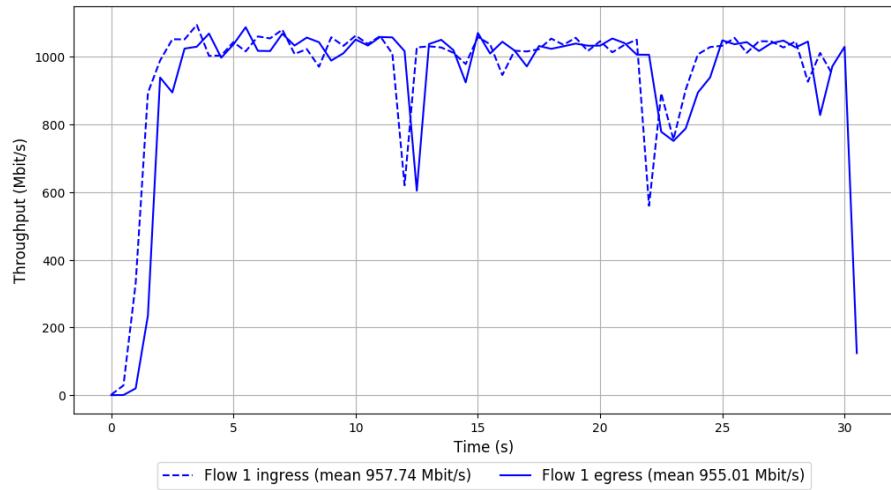


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-02-19 21:15:45
End at: 2019-02-19 21:16:15
Local clock offset: 2.004 ms
Remote clock offset: 1.732 ms

# Below is generated by plot.py at 2019-02-19 22:47:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 955.01 Mbit/s
95th percentile per-packet one-way delay: 110.358 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 955.01 Mbit/s
95th percentile per-packet one-way delay: 110.358 ms
Loss rate: 0.21%
```

Run 5: Report of FillP-Sheep — Data Link

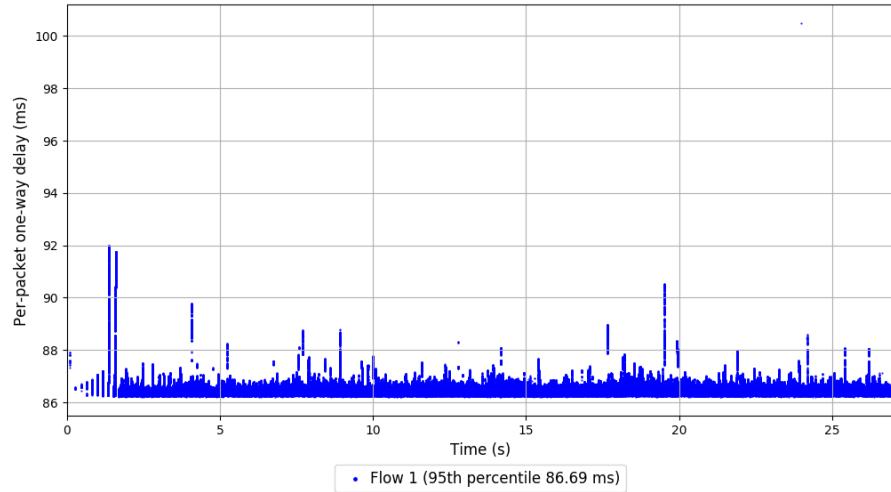
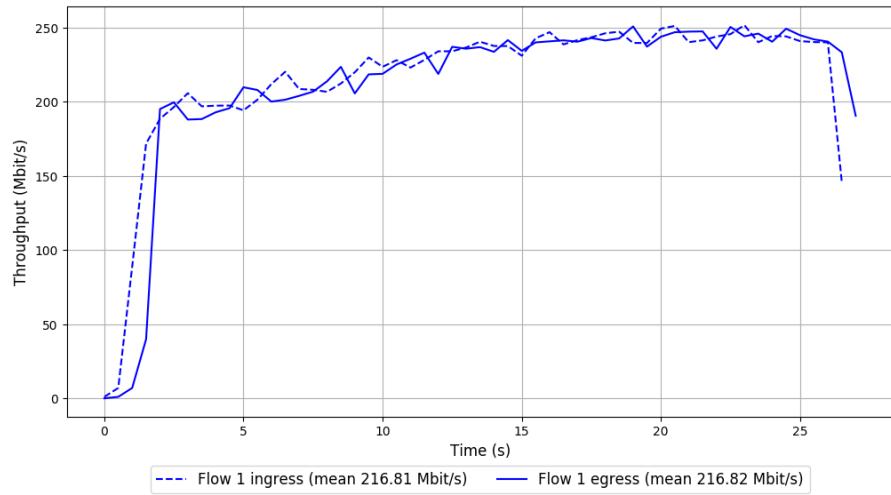


Run 1: Statistics of Indigo

```
Start at: 2019-02-19 19:01:23
End at: 2019-02-19 19:01:53
Local clock offset: 22.003 ms
Remote clock offset: 21.302 ms

# Below is generated by plot.py at 2019-02-19 22:47:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.82 Mbit/s
95th percentile per-packet one-way delay: 86.690 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.82 Mbit/s
95th percentile per-packet one-way delay: 86.690 ms
Loss rate: 0.00%
```

## Run 1: Report of Indigo — Data Link

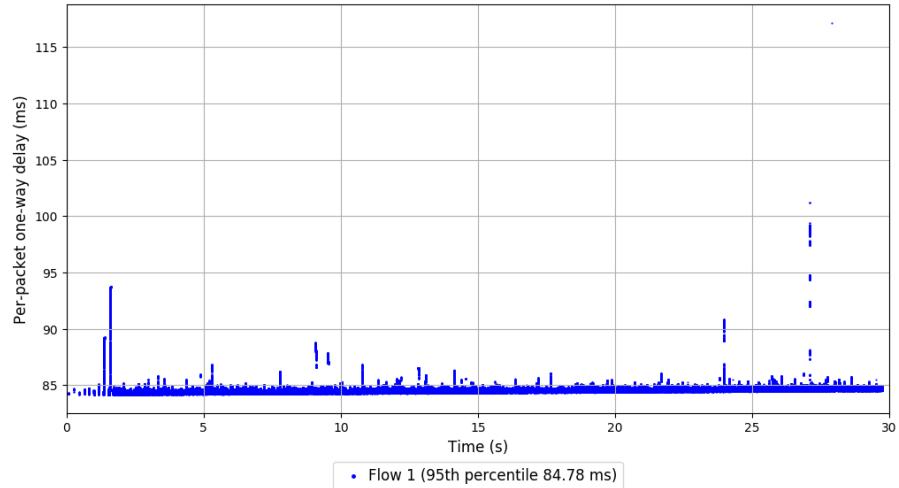
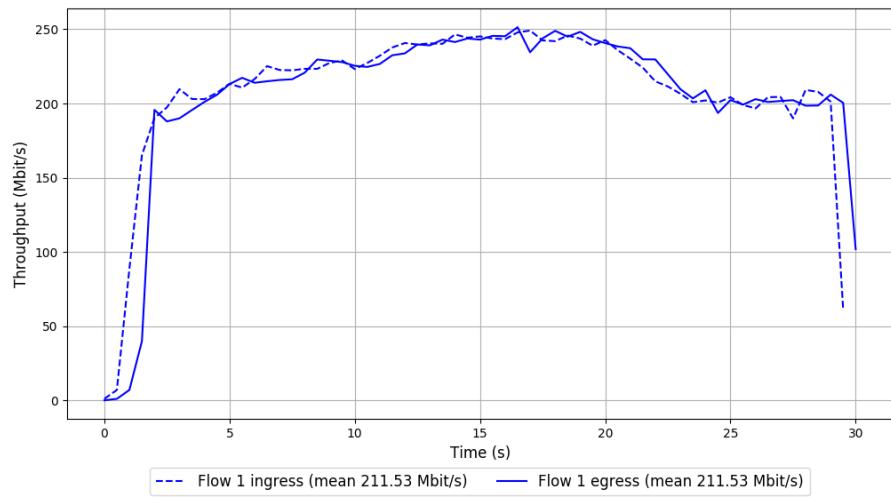


Run 2: Statistics of Indigo

```
Start at: 2019-02-19 19:38:26
End at: 2019-02-19 19:38:56
Local clock offset: 35.814 ms
Remote clock offset: 37.72 ms

# Below is generated by plot.py at 2019-02-19 22:47:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.53 Mbit/s
95th percentile per-packet one-way delay: 84.785 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.53 Mbit/s
95th percentile per-packet one-way delay: 84.785 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

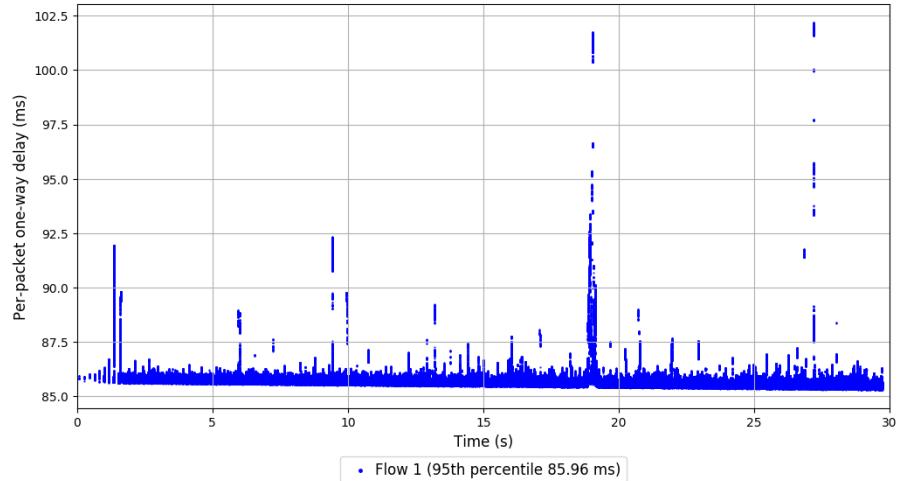
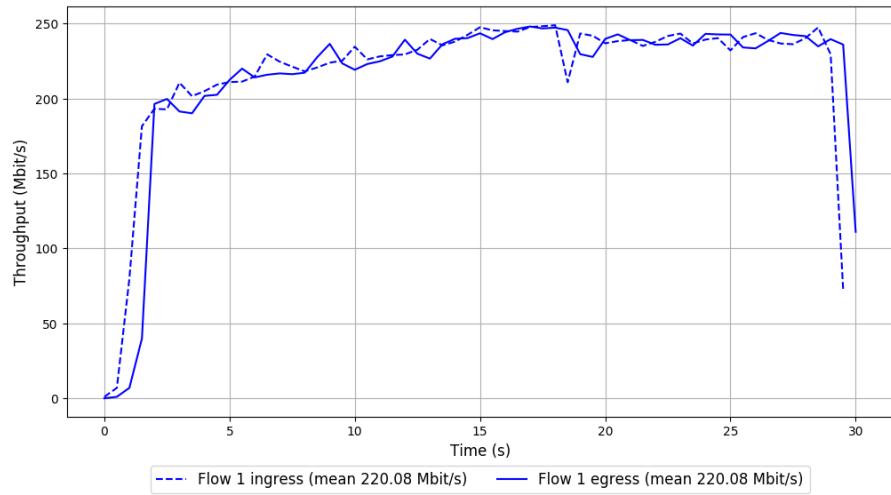


Run 3: Statistics of Indigo

```
Start at: 2019-02-19 20:14:40
End at: 2019-02-19 20:15:10
Local clock offset: 14.056 ms
Remote clock offset: 7.982 ms

# Below is generated by plot.py at 2019-02-19 22:47:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.08 Mbit/s
95th percentile per-packet one-way delay: 85.964 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.08 Mbit/s
95th percentile per-packet one-way delay: 85.964 ms
Loss rate: 0.00%
```

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

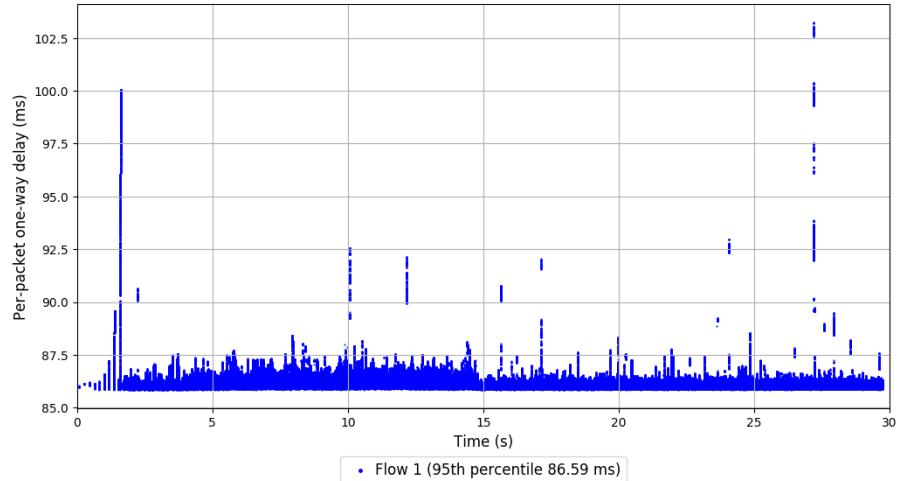
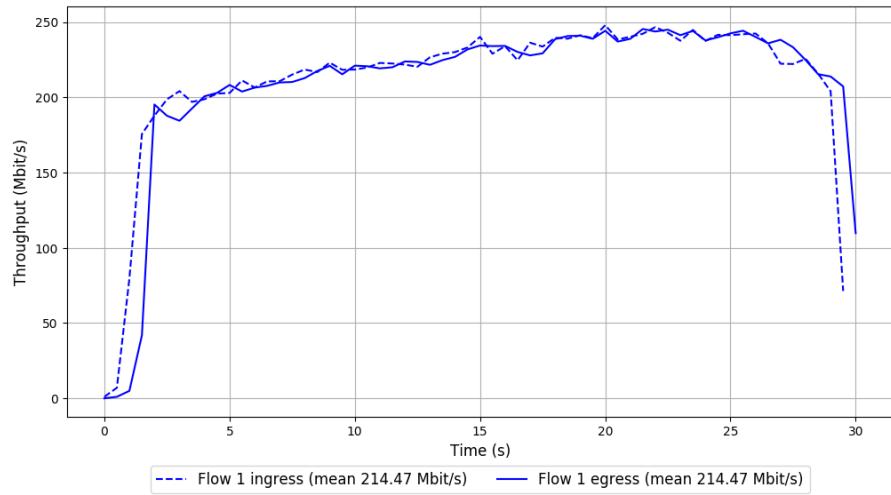


Run 4: Statistics of Indigo

```
Start at: 2019-02-19 20:49:23
End at: 2019-02-19 20:49:53
Local clock offset: 3.08 ms
Remote clock offset: 3.301 ms

# Below is generated by plot.py at 2019-02-19 22:47:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.47 Mbit/s
95th percentile per-packet one-way delay: 86.593 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.47 Mbit/s
95th percentile per-packet one-way delay: 86.593 ms
Loss rate: 0.00%
```

## Run 4: Report of Indigo — Data Link

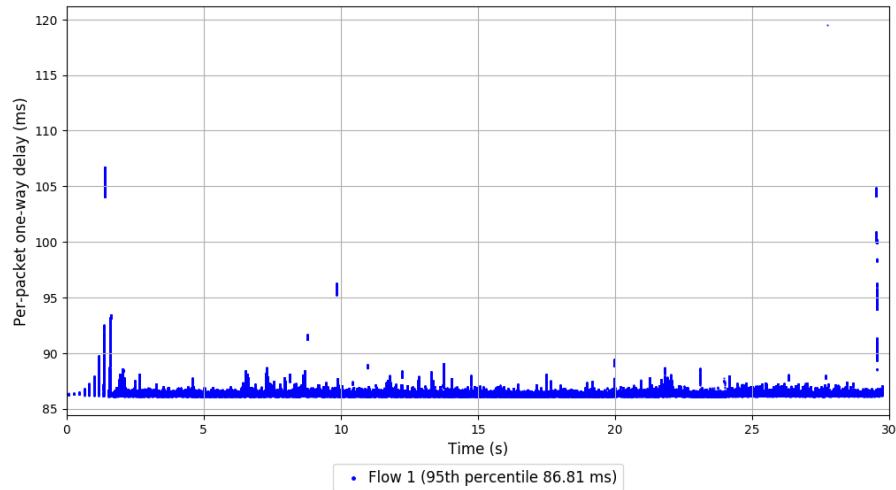
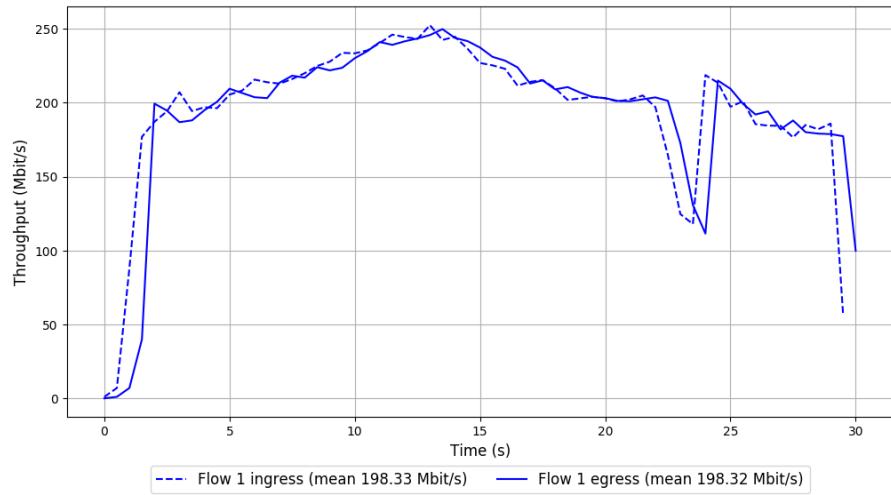


Run 5: Statistics of Indigo

```
Start at: 2019-02-19 21:24:57
End at: 2019-02-19 21:25:27
Local clock offset: 0.893 ms
Remote clock offset: 1.299 ms

# Below is generated by plot.py at 2019-02-19 22:47:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.32 Mbit/s
95th percentile per-packet one-way delay: 86.810 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.32 Mbit/s
95th percentile per-packet one-way delay: 86.810 ms
Loss rate: 0.00%
```

## Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

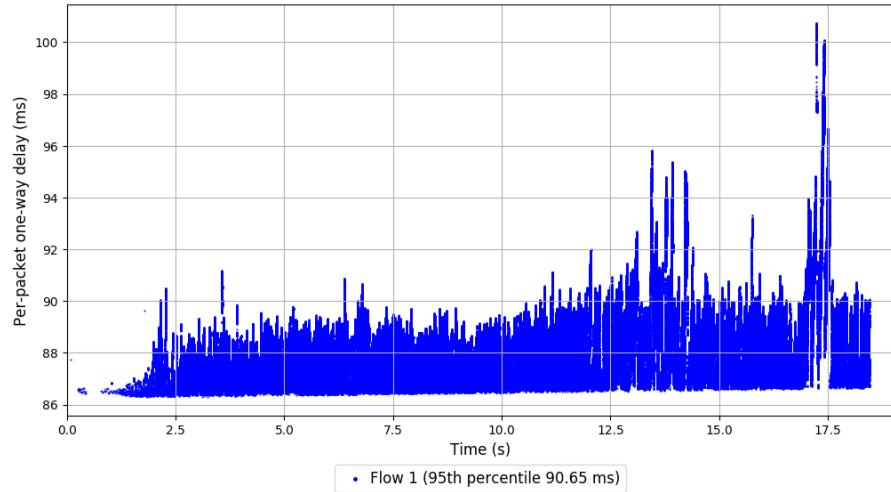
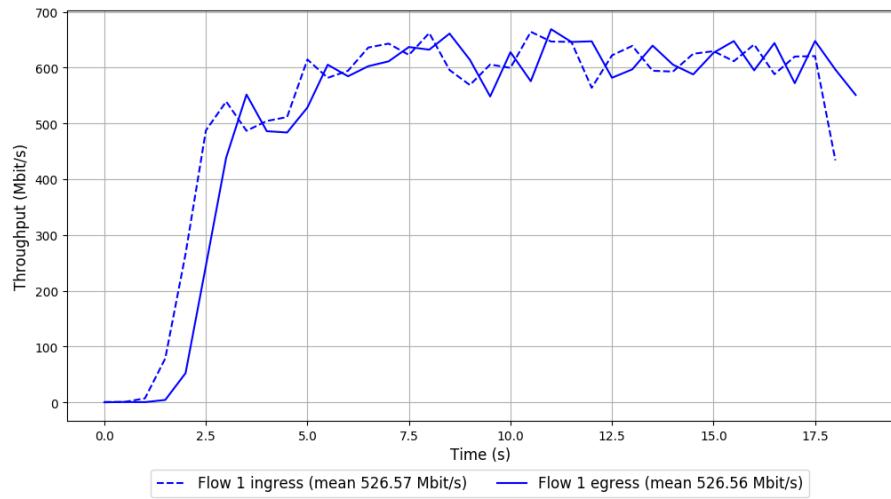
Start at: 2019-02-19 18:39:14

End at: 2019-02-19 18:39:44

Local clock offset: 8.702 ms

Remote clock offset: 10.157 ms

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

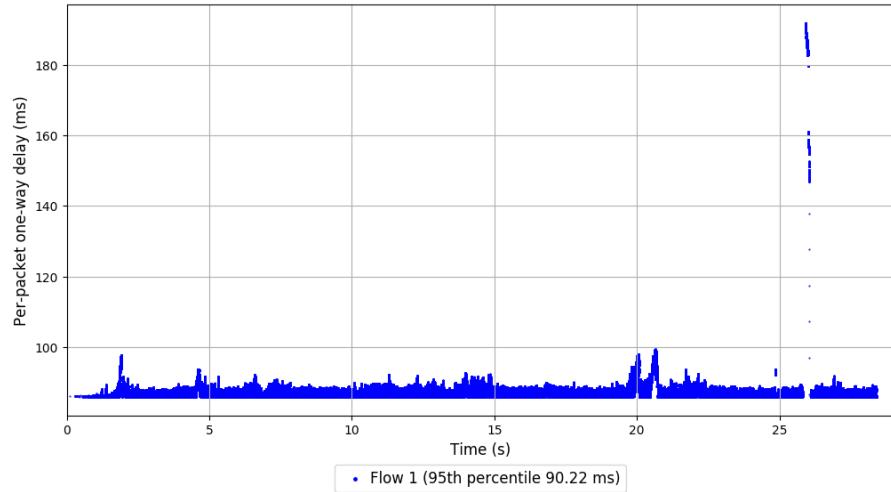
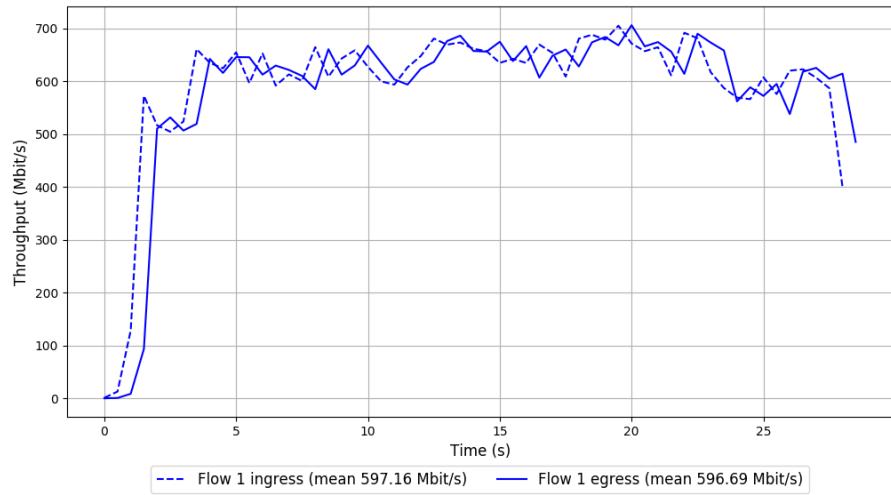


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-02-19 19:16:11
End at: 2019-02-19 19:16:41
Local clock offset: 19.409 ms
Remote clock offset: 19.176 ms

# Below is generated by plot.py at 2019-02-19 22:47:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 596.69 Mbit/s
95th percentile per-packet one-way delay: 90.223 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 596.69 Mbit/s
95th percentile per-packet one-way delay: 90.223 ms
Loss rate: 0.08%
```

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

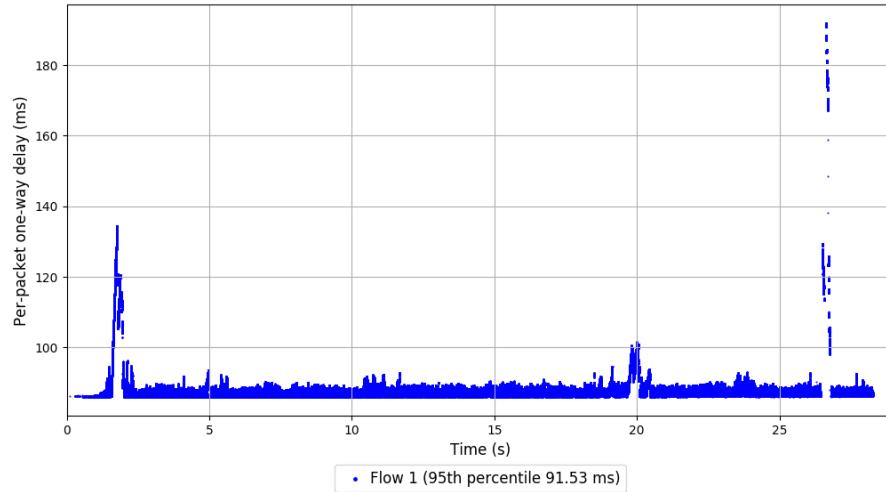
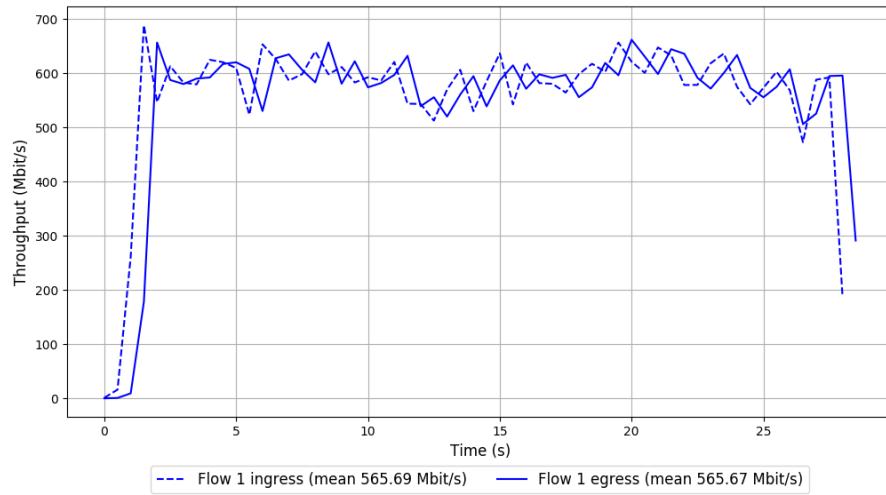


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-02-19 19:52:57
End at: 2019-02-19 19:53:27
Local clock offset: 14.491 ms
Remote clock offset: 10.826 ms

# Below is generated by plot.py at 2019-02-19 22:47:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 565.67 Mbit/s
95th percentile per-packet one-way delay: 91.534 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 565.67 Mbit/s
95th percentile per-packet one-way delay: 91.534 ms
Loss rate: 0.00%
```

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

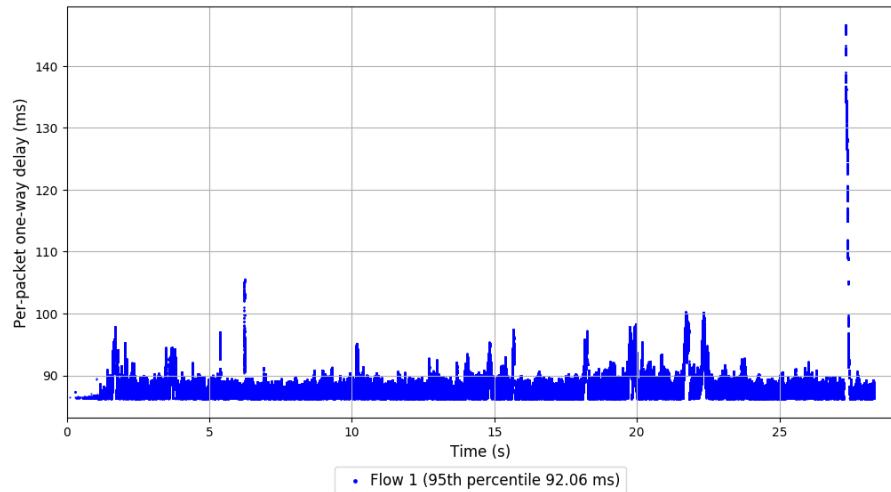
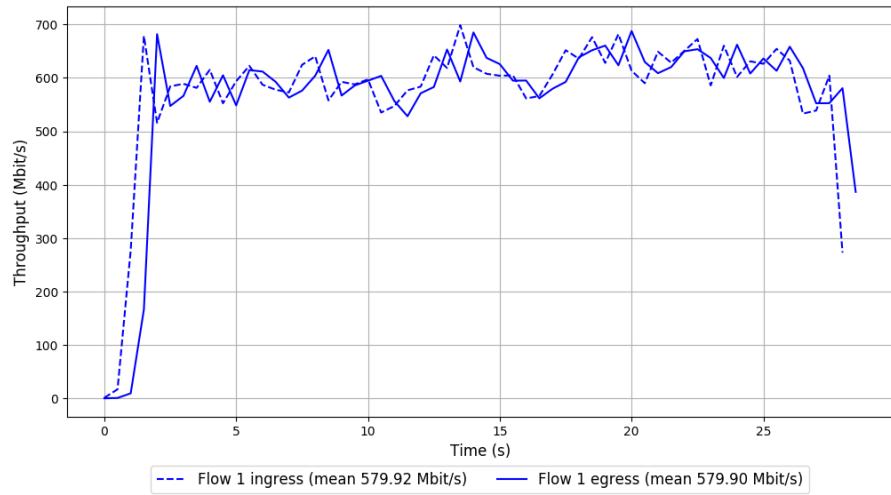


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-02-19 20:27:59
End at: 2019-02-19 20:28:29
Local clock offset: 4.433 ms
Remote clock offset: 3.365 ms

# Below is generated by plot.py at 2019-02-19 22:47:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.90 Mbit/s
95th percentile per-packet one-way delay: 92.055 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 579.90 Mbit/s
95th percentile per-packet one-way delay: 92.055 ms
Loss rate: 0.00%
```

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

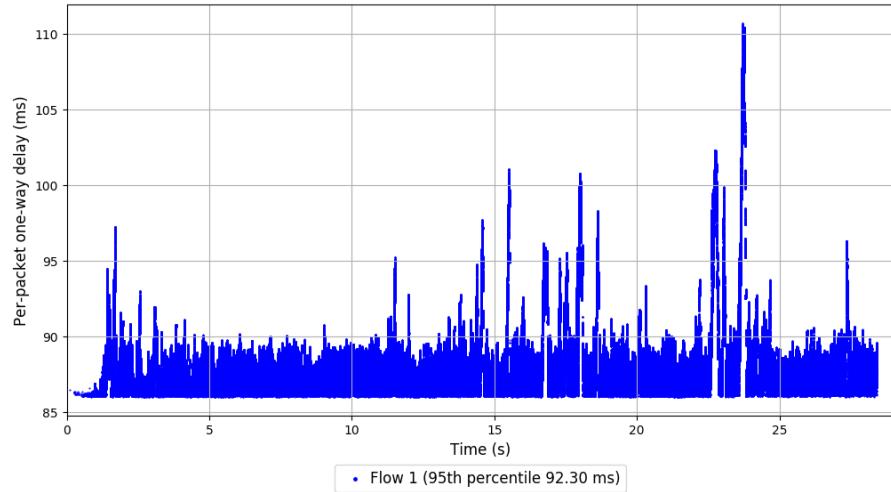
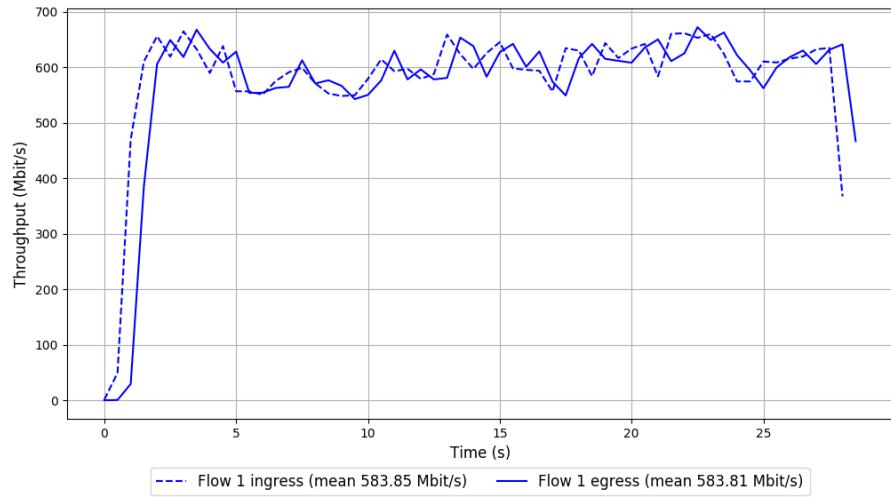


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-02-19 21:04:12
End at: 2019-02-19 21:04:42
Local clock offset: 1.421 ms
Remote clock offset: 1.485 ms

# Below is generated by plot.py at 2019-02-19 22:47:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 583.81 Mbit/s
95th percentile per-packet one-way delay: 92.297 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 583.81 Mbit/s
95th percentile per-packet one-way delay: 92.297 ms
Loss rate: 0.01%
```

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

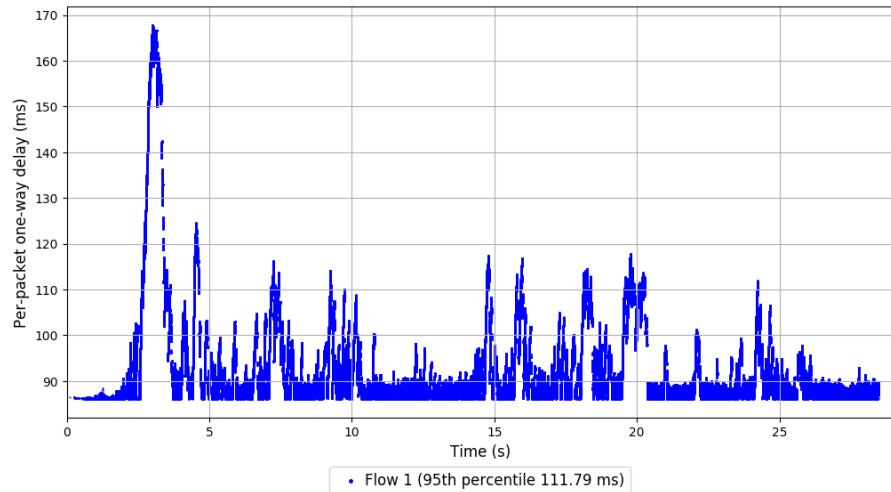
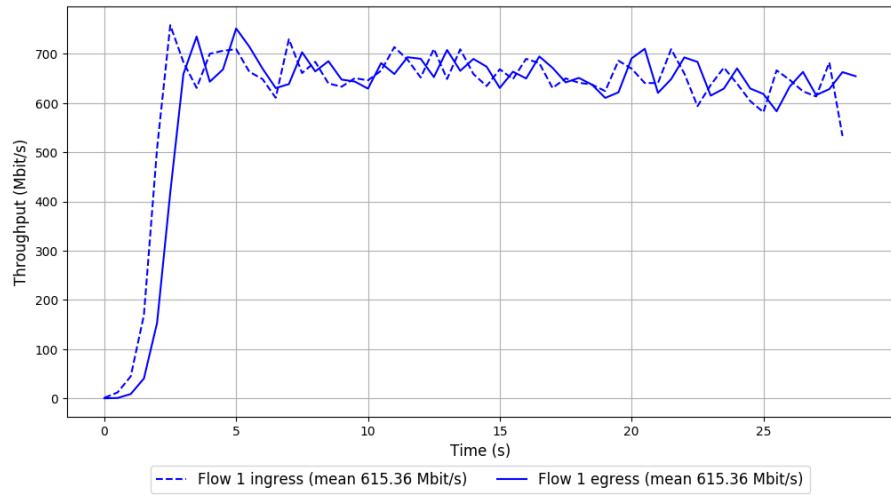


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-02-19 18:56:18
End at: 2019-02-19 18:56:48
Local clock offset: 15.849 ms
Remote clock offset: 15.187 ms

# Below is generated by plot.py at 2019-02-19 22:47:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 615.36 Mbit/s
95th percentile per-packet one-way delay: 111.793 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 615.36 Mbit/s
95th percentile per-packet one-way delay: 111.793 ms
Loss rate: 0.00%
```

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

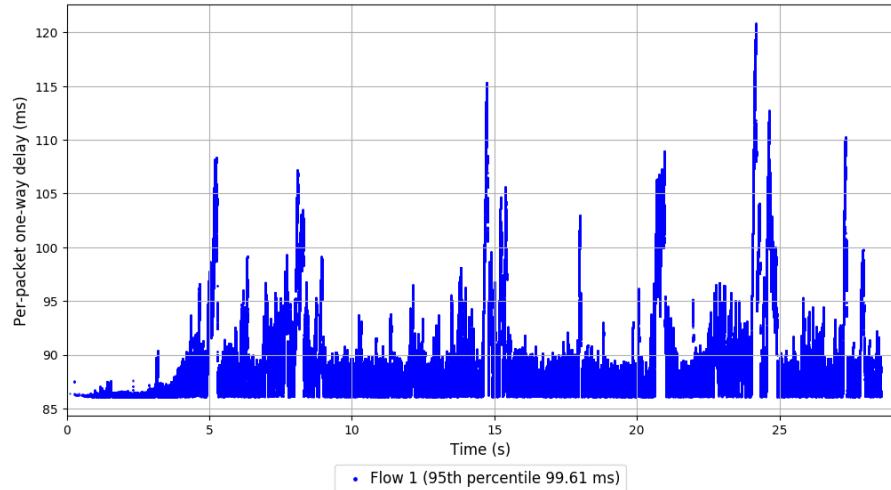
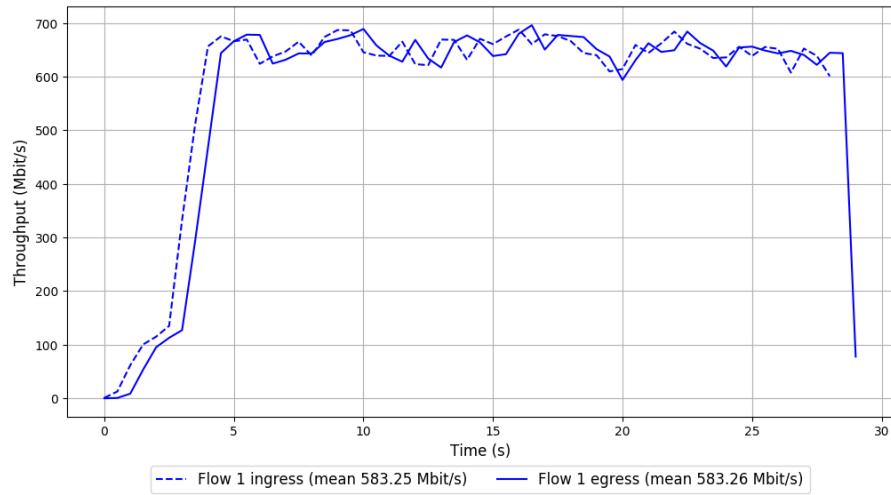


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-02-19 19:33:39
End at: 2019-02-19 19:34:09
Local clock offset: 33.263 ms
Remote clock offset: 32.813 ms

# Below is generated by plot.py at 2019-02-19 22:47:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 583.26 Mbit/s
95th percentile per-packet one-way delay: 99.607 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 583.26 Mbit/s
95th percentile per-packet one-way delay: 99.607 ms
Loss rate: 0.00%
```

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

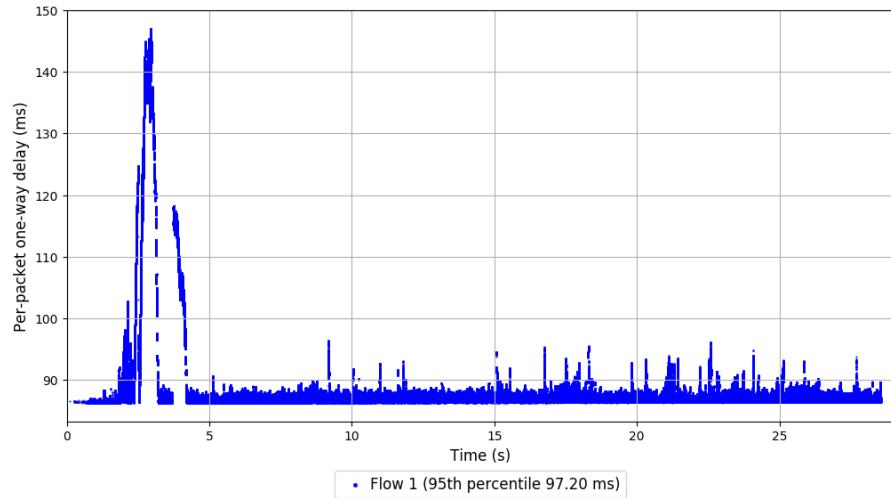
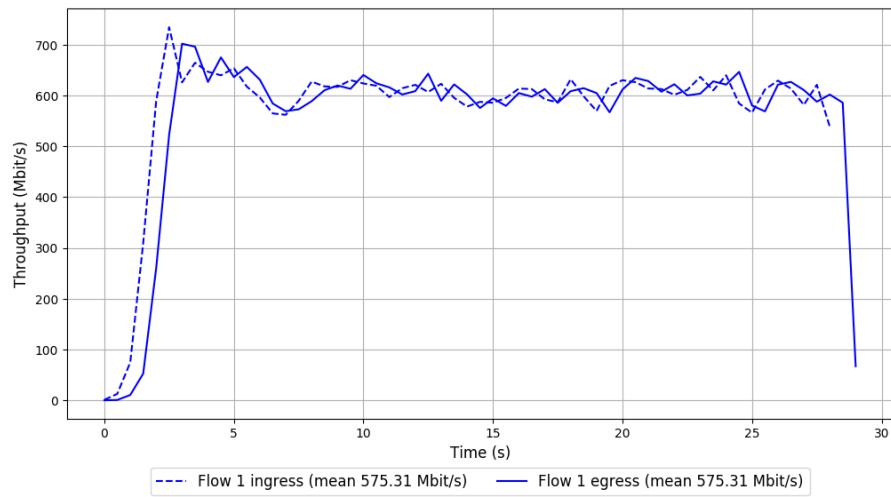


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-02-19 20:09:53
End at: 2019-02-19 20:10:23
Local clock offset: 17.889 ms
Remote clock offset: 9.239 ms

# Below is generated by plot.py at 2019-02-19 22:48:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 575.31 Mbit/s
95th percentile per-packet one-way delay: 97.196 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 575.31 Mbit/s
95th percentile per-packet one-way delay: 97.196 ms
Loss rate: 0.00%
```

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

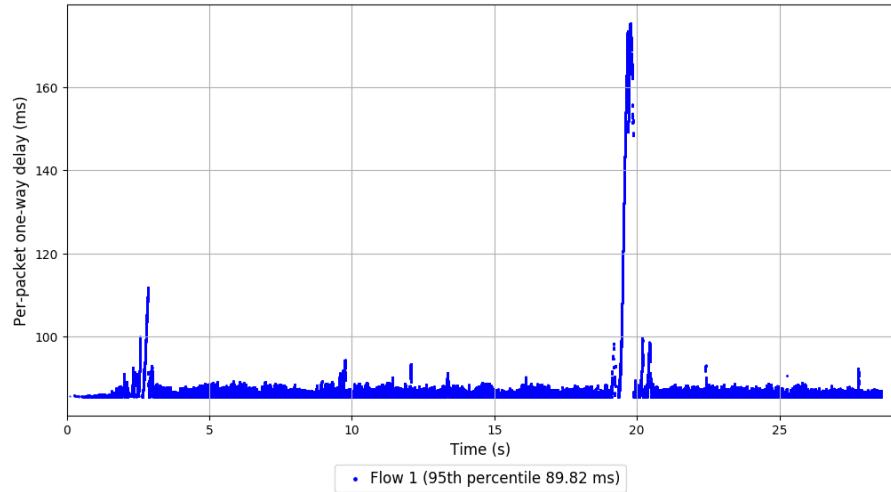
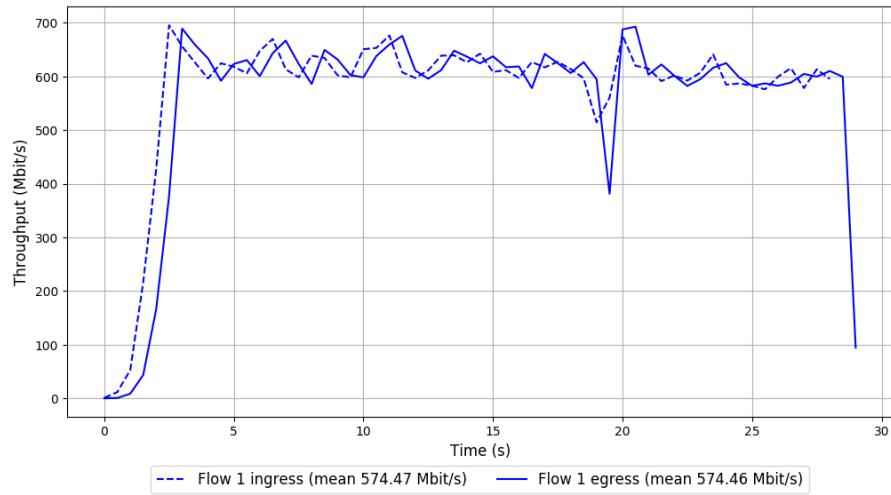


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-02-19 20:44:37
End at: 2019-02-19 20:45:07
Local clock offset: 4.391 ms
Remote clock offset: 4.006 ms

# Below is generated by plot.py at 2019-02-19 22:54:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 574.46 Mbit/s
95th percentile per-packet one-way delay: 89.819 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 574.46 Mbit/s
95th percentile per-packet one-way delay: 89.819 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC5 — Data Link

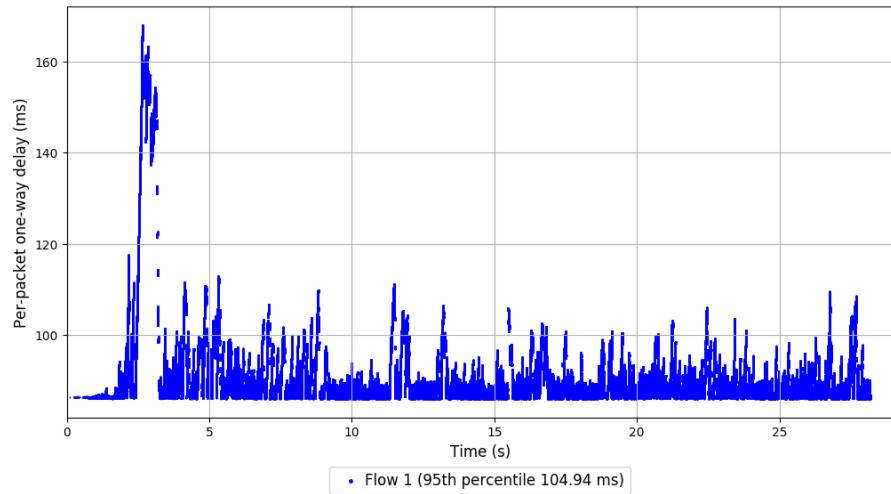
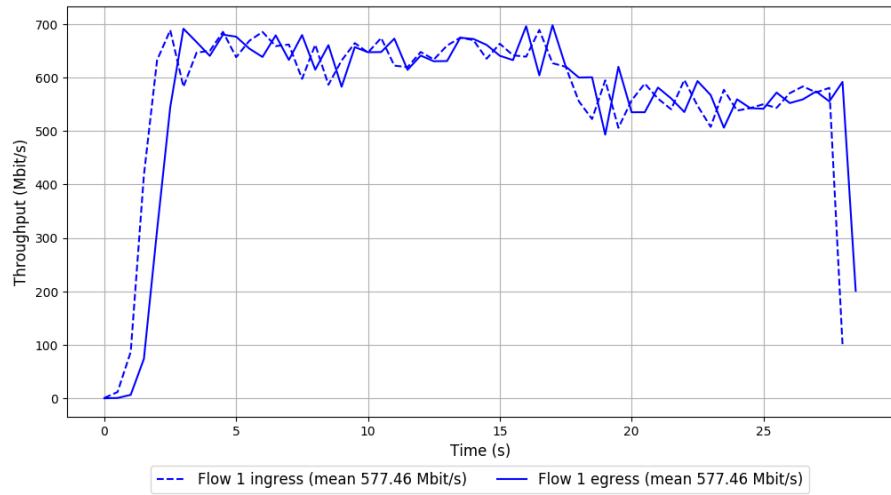


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-02-19 21:20:15
End at: 2019-02-19 21:20:45
Local clock offset: 1.793 ms
Remote clock offset: 1.938 ms

# Below is generated by plot.py at 2019-02-19 22:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 577.46 Mbit/s
95th percentile per-packet one-way delay: 104.944 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 577.46 Mbit/s
95th percentile per-packet one-way delay: 104.944 ms
Loss rate: 0.00%
```

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

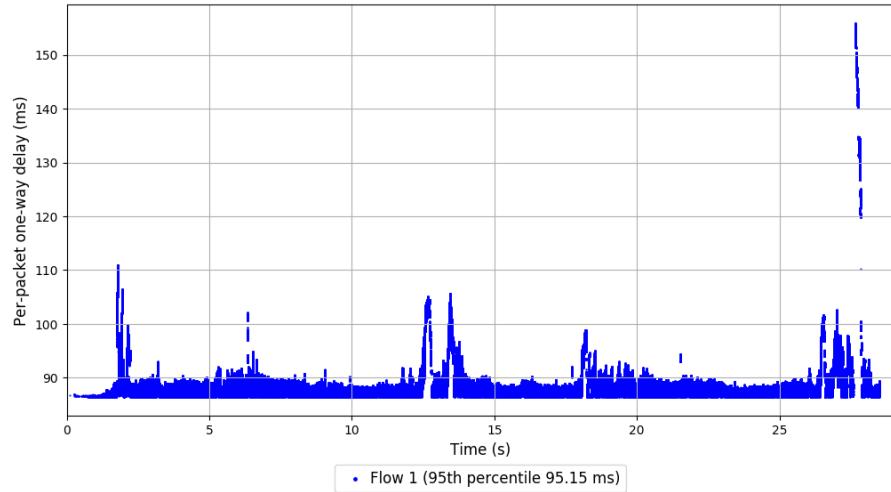
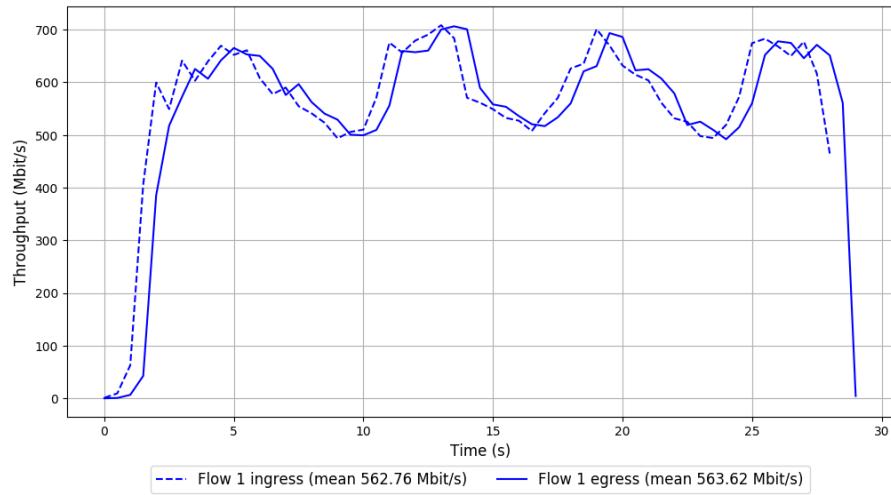


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-02-19 18:59:21
End at: 2019-02-19 18:59:52
Local clock offset: 19.174 ms
Remote clock offset: 18.707 ms

# Below is generated by plot.py at 2019-02-19 22:54:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 563.62 Mbit/s
95th percentile per-packet one-way delay: 95.149 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 563.62 Mbit/s
95th percentile per-packet one-way delay: 95.149 ms
Loss rate: 0.01%
```

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

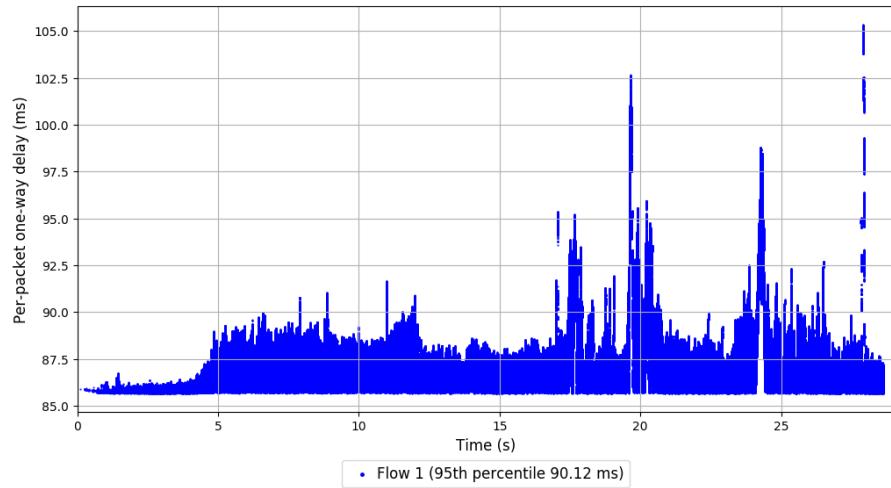
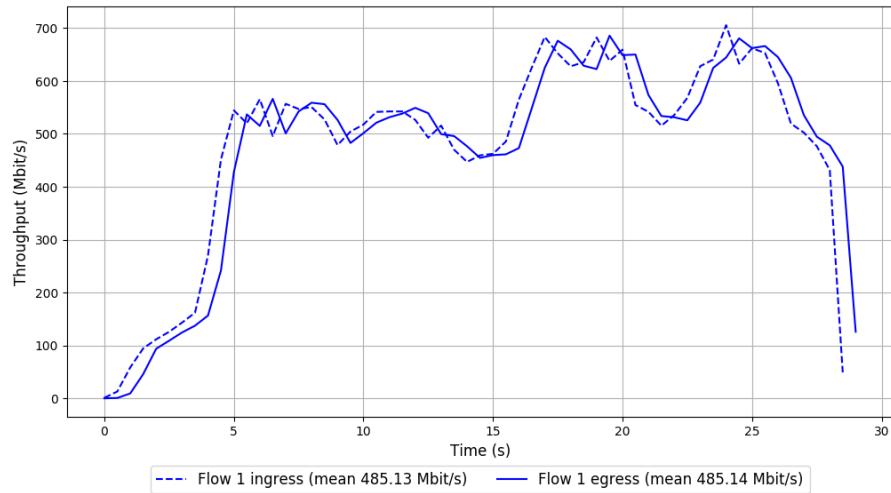


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-02-19 19:36:45
End at: 2019-02-19 19:37:15
Local clock offset: 36.712 ms
Remote clock offset: 35.77 ms

# Below is generated by plot.py at 2019-02-19 22:54:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 485.14 Mbit/s
95th percentile per-packet one-way delay: 90.122 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 485.14 Mbit/s
95th percentile per-packet one-way delay: 90.122 ms
Loss rate: 0.00%
```

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

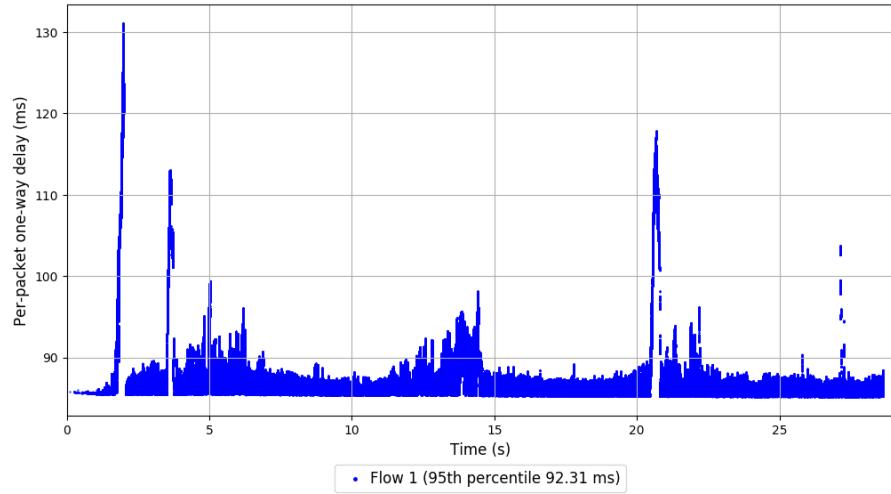
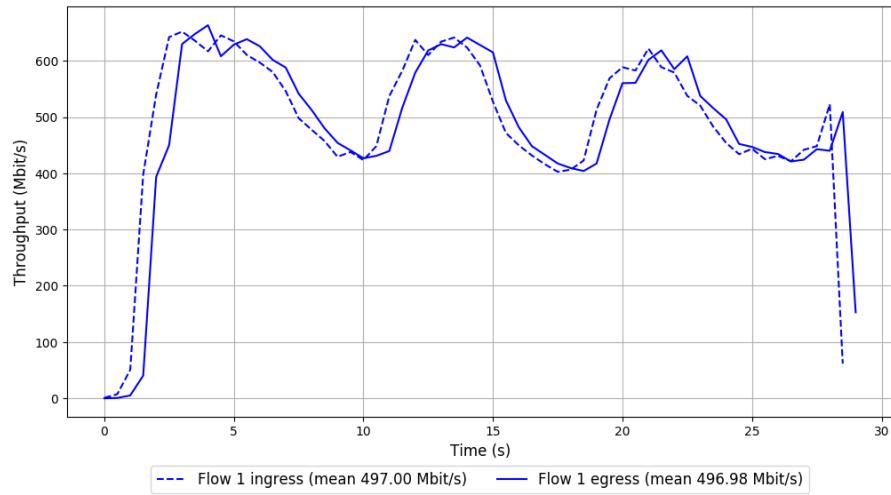


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-02-19 20:12:44
End at: 2019-02-19 20:13:14
Local clock offset: 17.42 ms
Remote clock offset: 9.736 ms

# Below is generated by plot.py at 2019-02-19 22:54:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 496.98 Mbit/s
95th percentile per-packet one-way delay: 92.311 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 496.98 Mbit/s
95th percentile per-packet one-way delay: 92.311 ms
Loss rate: 0.00%
```

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

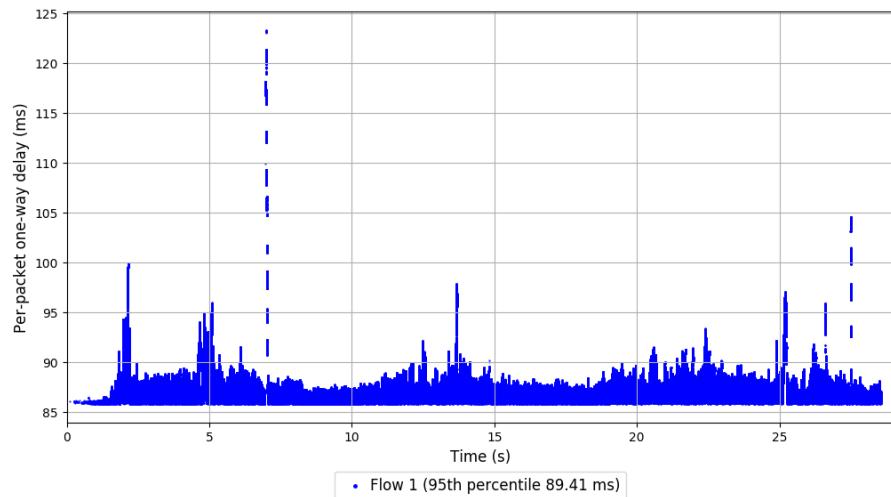
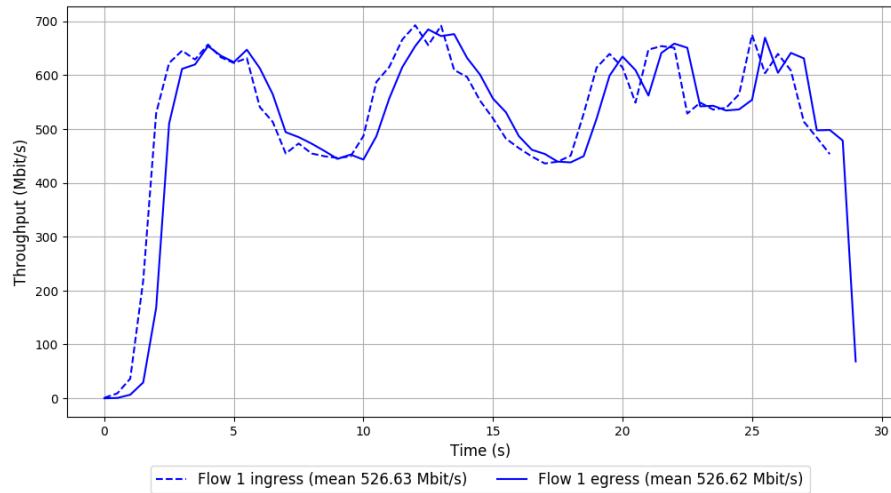


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-02-19 20:47:39
End at: 2019-02-19 20:48:09
Local clock offset: 3.671 ms
Remote clock offset: 3.883 ms

# Below is generated by plot.py at 2019-02-19 22:55:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 526.62 Mbit/s
95th percentile per-packet one-way delay: 89.411 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 526.62 Mbit/s
95th percentile per-packet one-way delay: 89.411 ms
Loss rate: 0.00%
```

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

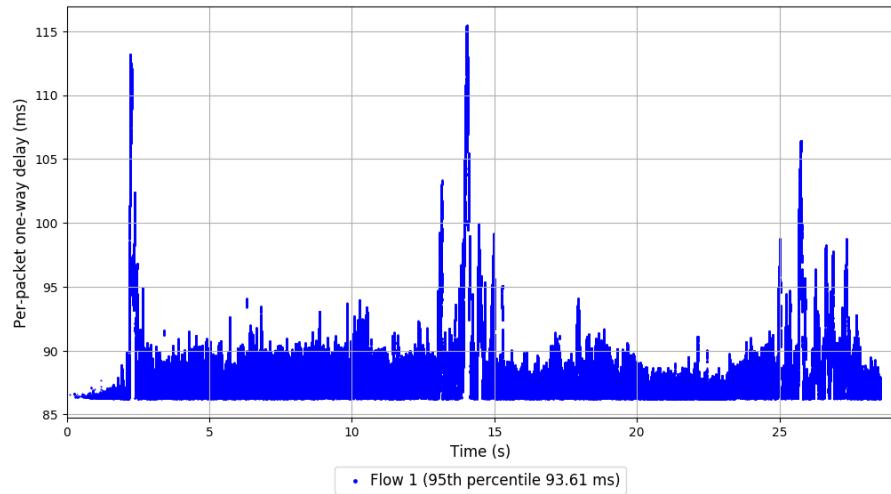
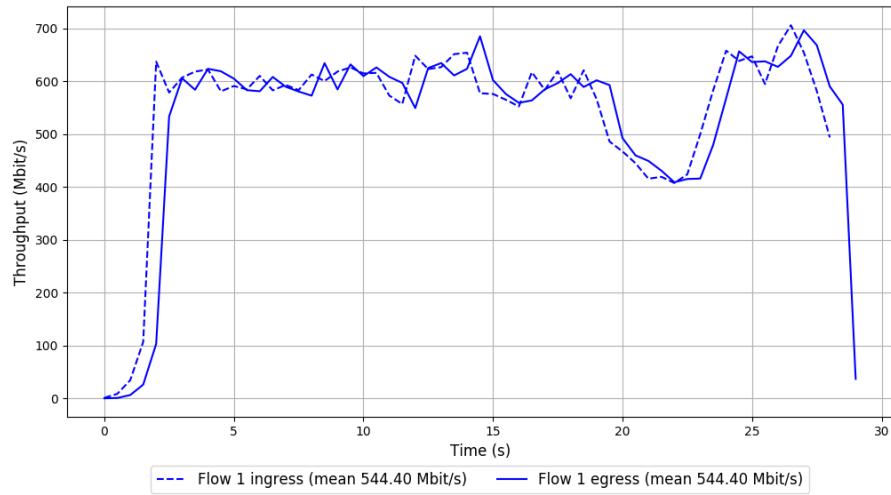


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-02-19 21:23:09
End at: 2019-02-19 21:23:40
Local clock offset: 1.052 ms
Remote clock offset: 1.591 ms

# Below is generated by plot.py at 2019-02-19 22:58:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 544.40 Mbit/s
95th percentile per-packet one-way delay: 93.615 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 544.40 Mbit/s
95th percentile per-packet one-way delay: 93.615 ms
Loss rate: 0.00%
```

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

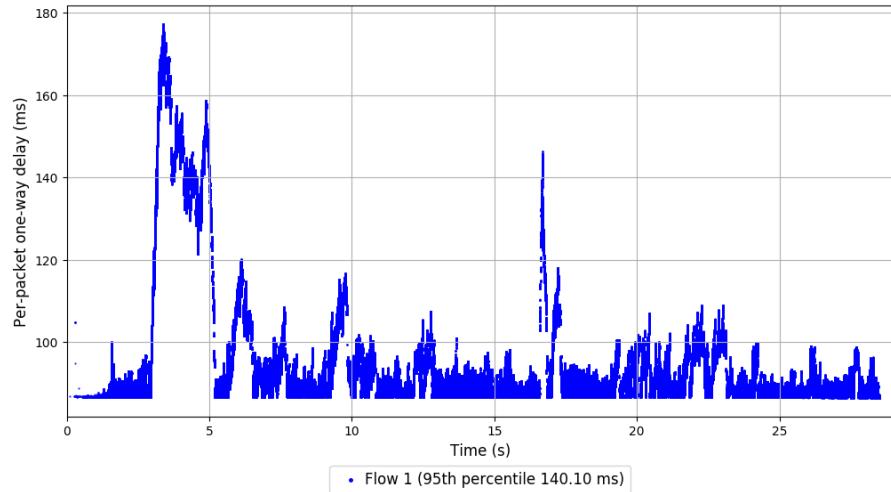
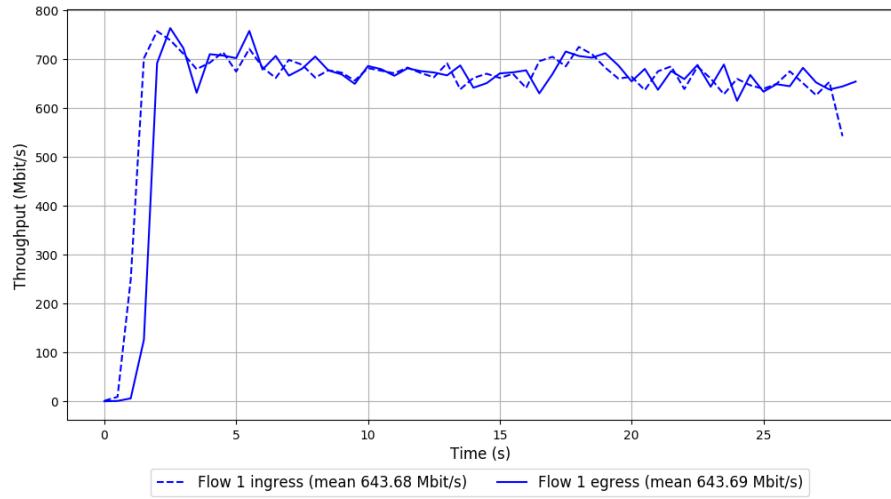


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-02-19 19:02:55
End at: 2019-02-19 19:03:25
Local clock offset: 23.985 ms
Remote clock offset: 23.396 ms

# Below is generated by plot.py at 2019-02-19 22:59:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 643.69 Mbit/s
95th percentile per-packet one-way delay: 140.102 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 643.69 Mbit/s
95th percentile per-packet one-way delay: 140.102 ms
Loss rate: 0.00%
```

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

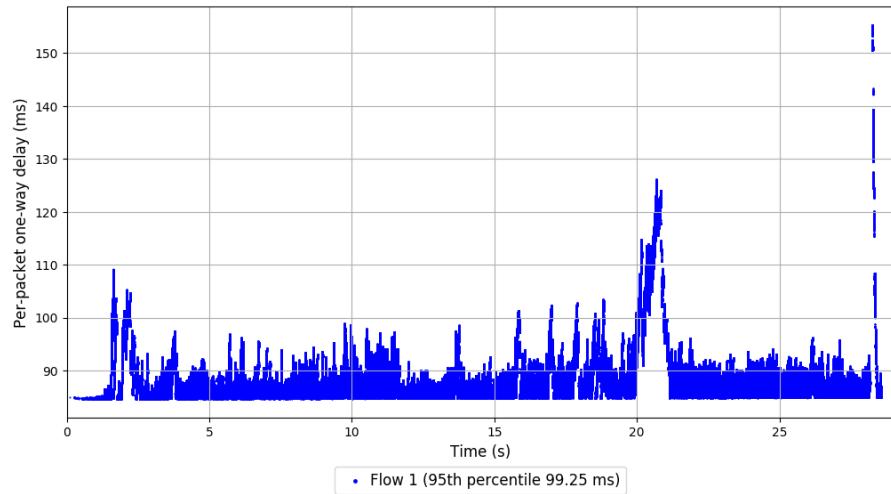
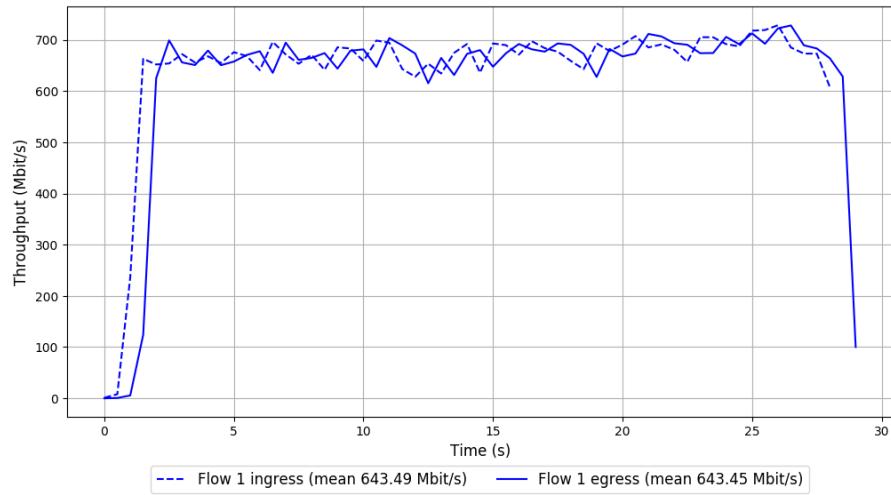


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-02-19 19:40:06
End at: 2019-02-19 19:40:36
Local clock offset: 30.522 ms
Remote clock offset: 31.698 ms

# Below is generated by plot.py at 2019-02-19 23:04:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 643.45 Mbit/s
95th percentile per-packet one-way delay: 99.251 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 643.45 Mbit/s
95th percentile per-packet one-way delay: 99.251 ms
Loss rate: 0.00%
```

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

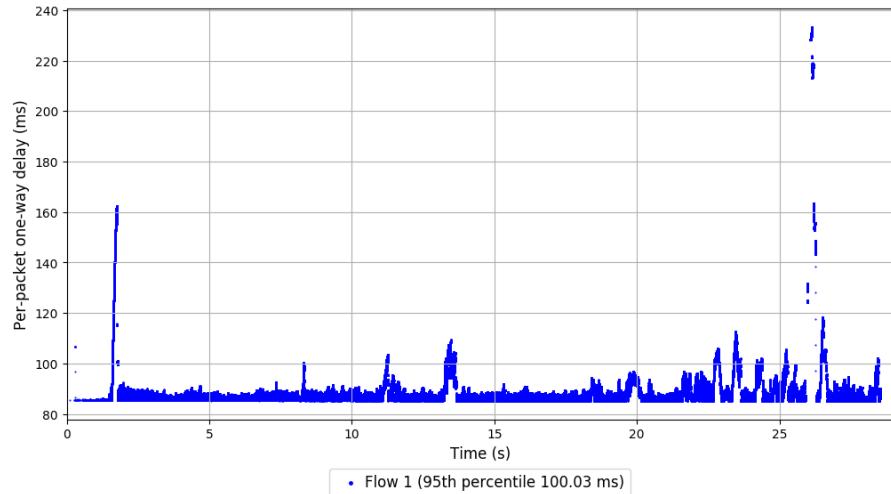
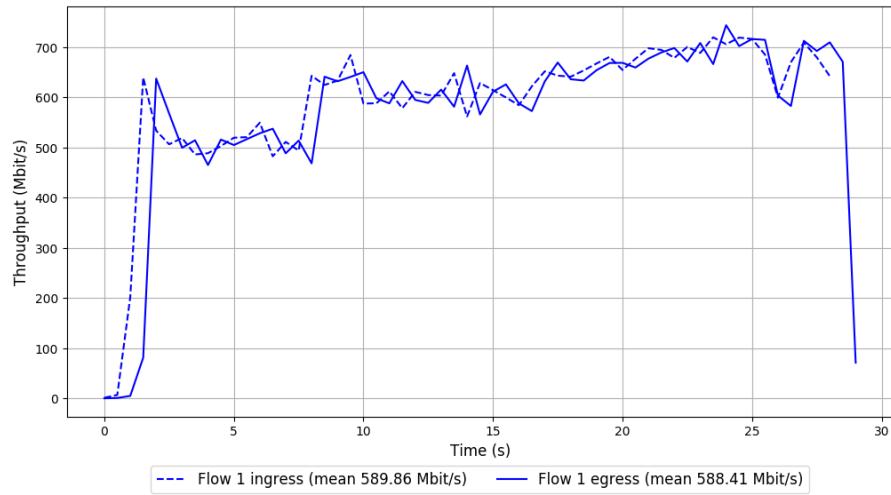


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-02-19 20:16:23
End at: 2019-02-19 20:16:53
Local clock offset: 12.06 ms
Remote clock offset: 6.731 ms

# Below is generated by plot.py at 2019-02-19 23:04:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 588.41 Mbit/s
95th percentile per-packet one-way delay: 100.032 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 588.41 Mbit/s
95th percentile per-packet one-way delay: 100.032 ms
Loss rate: 0.24%
```

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

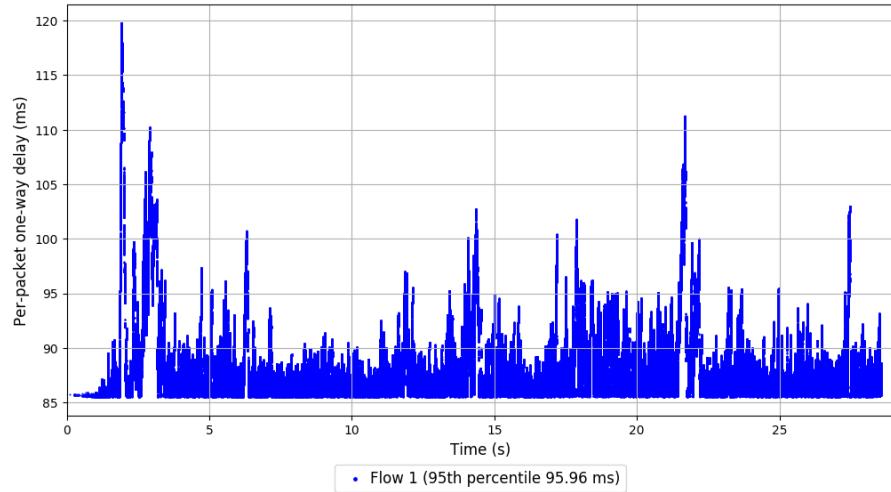
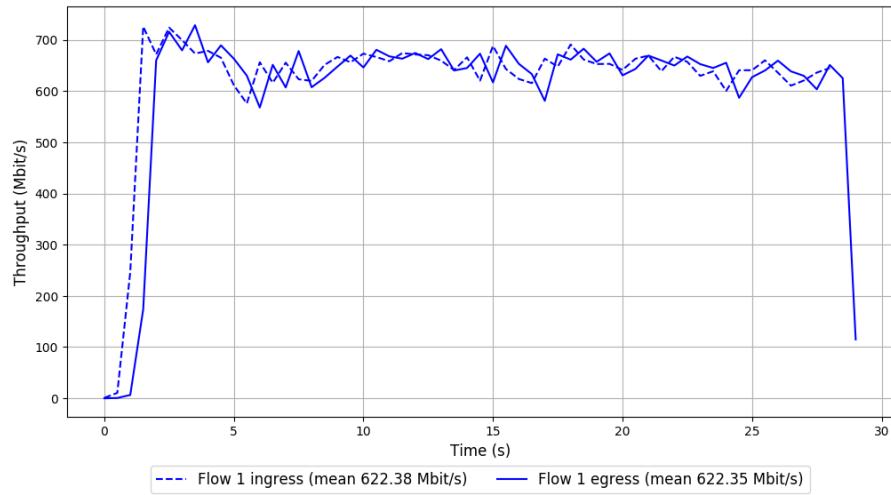


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-02-19 20:51:05
End at: 2019-02-19 20:51:35
Local clock offset: 2.961 ms
Remote clock offset: 2.757 ms

# Below is generated by plot.py at 2019-02-19 23:04:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 622.35 Mbit/s
95th percentile per-packet one-way delay: 95.961 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 622.35 Mbit/s
95th percentile per-packet one-way delay: 95.961 ms
Loss rate: 0.00%
```

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

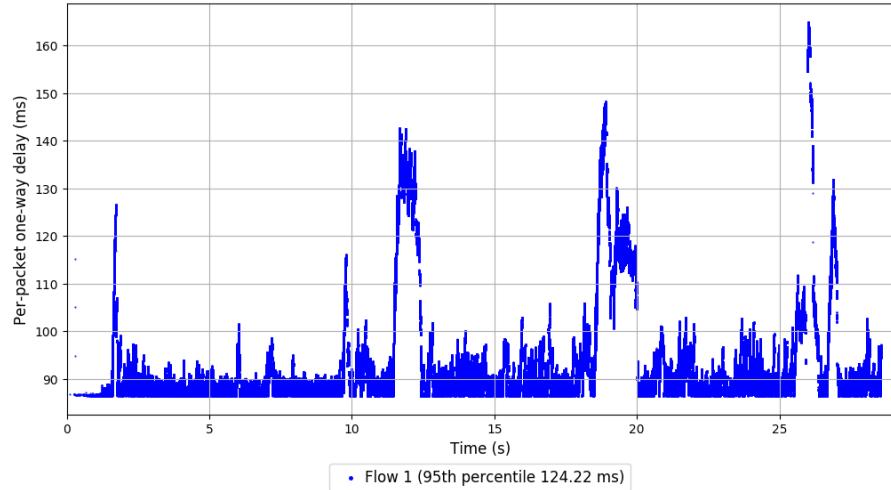
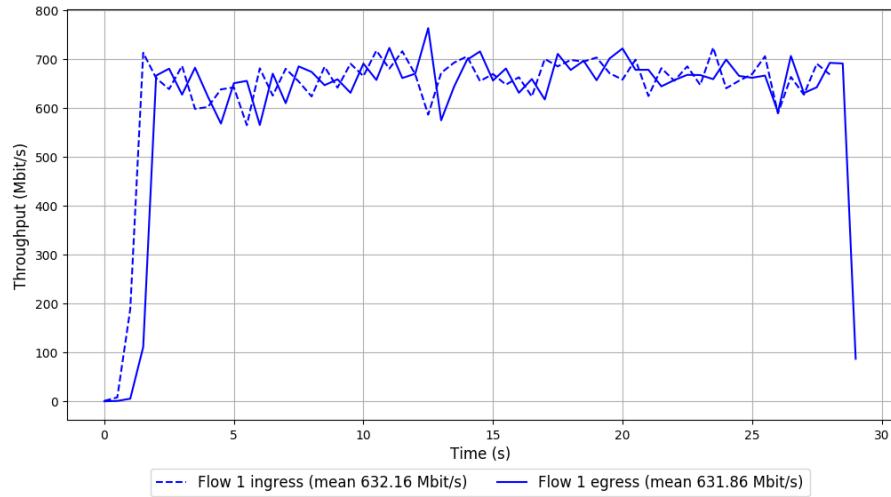


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-02-19 21:26:33
End at: 2019-02-19 21:27:03
Local clock offset: 1.036 ms
Remote clock offset: 1.178 ms

# Below is generated by plot.py at 2019-02-19 23:05:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 631.86 Mbit/s
95th percentile per-packet one-way delay: 124.224 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 631.86 Mbit/s
95th percentile per-packet one-way delay: 124.224 ms
Loss rate: 0.05%
```

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

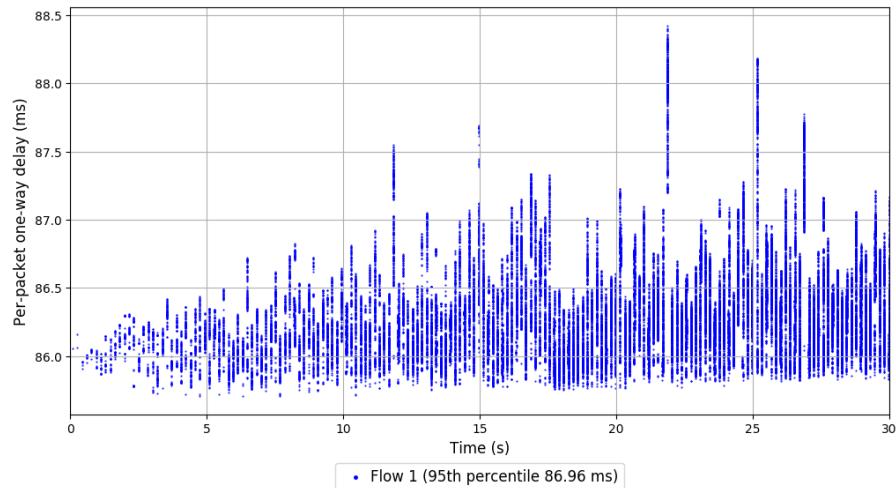
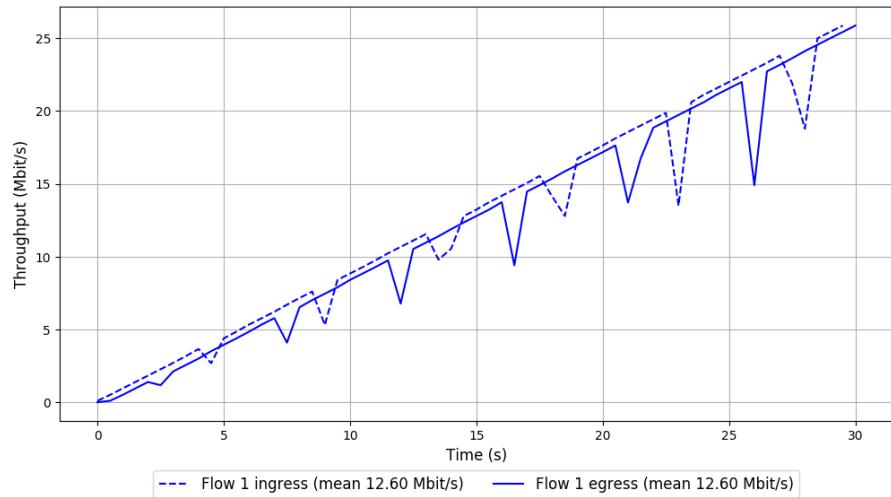


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-02-19 18:50:03
End at: 2019-02-19 18:50:33
Local clock offset: 12.729 ms
Remote clock offset: 12.966 ms

# Below is generated by plot.py at 2019-02-19 23:05:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 86.963 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 86.963 ms
Loss rate: 0.00%
```

## Run 1: Report of LEDBAT — Data Link

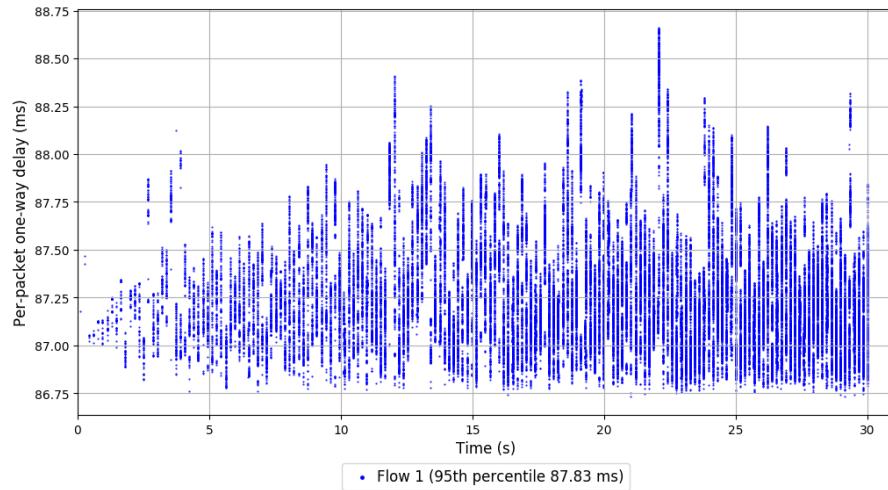
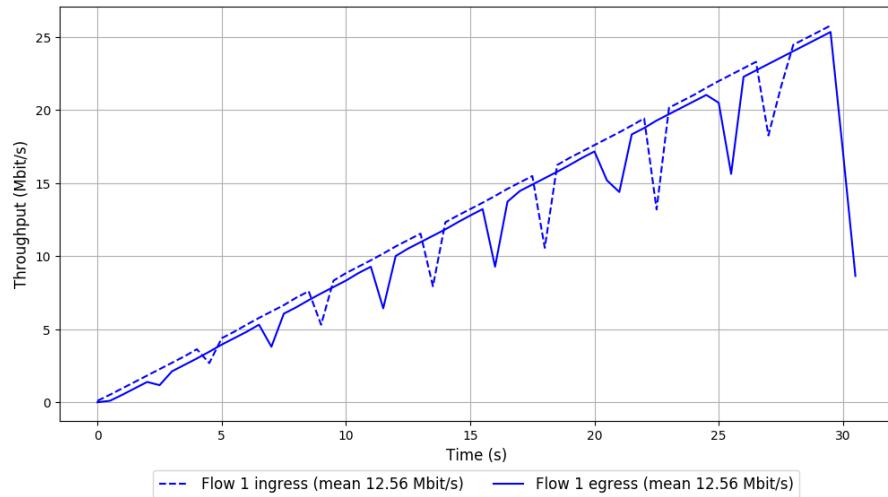


Run 2: Statistics of LEDBAT

```
Start at: 2019-02-19 19:27:08
End at: 2019-02-19 19:27:38
Local clock offset: 26.537 ms
Remote clock offset: 26.643 ms

# Below is generated by plot.py at 2019-02-19 23:05:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 87.834 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 87.834 ms
Loss rate: 0.00%
```

## Run 2: Report of LEDBAT — Data Link

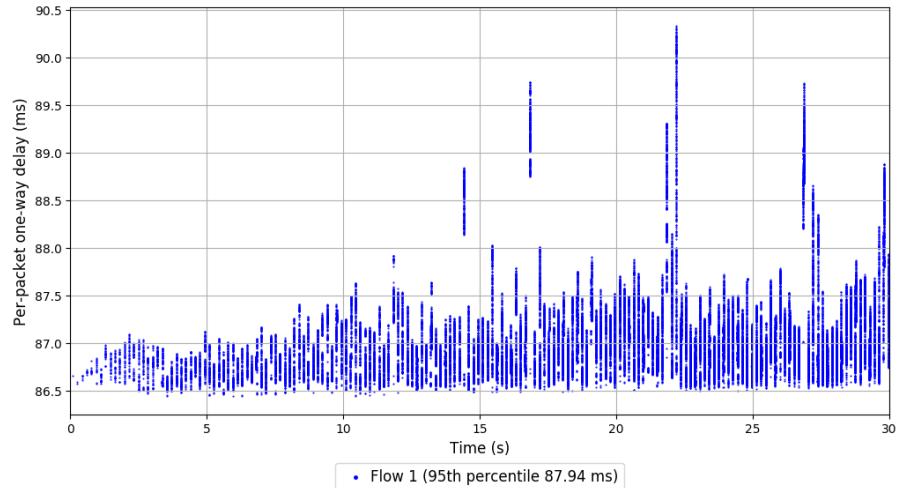
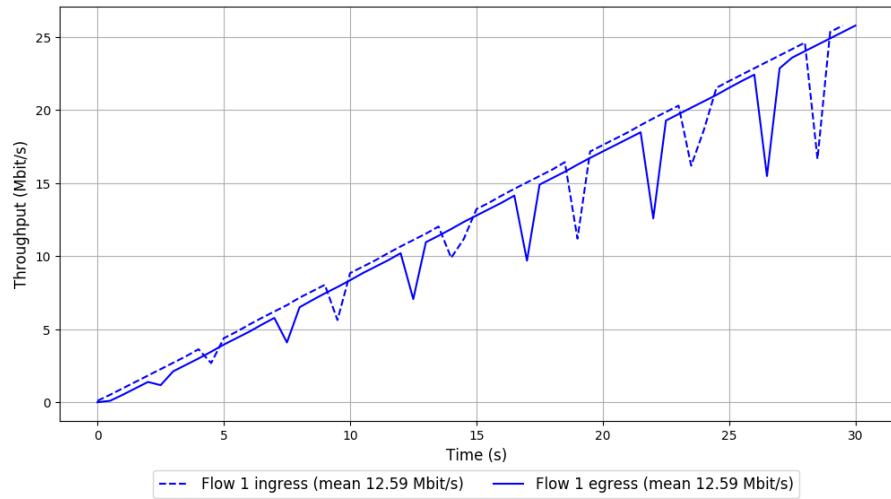


Run 3: Statistics of LEDBAT

```
Start at: 2019-02-19 20:03:44
End at: 2019-02-19 20:04:14
Local clock offset: 15.264 ms
Remote clock offset: 8.614 ms

# Below is generated by plot.py at 2019-02-19 23:05:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 87.945 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 87.945 ms
Loss rate: 0.00%
```

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

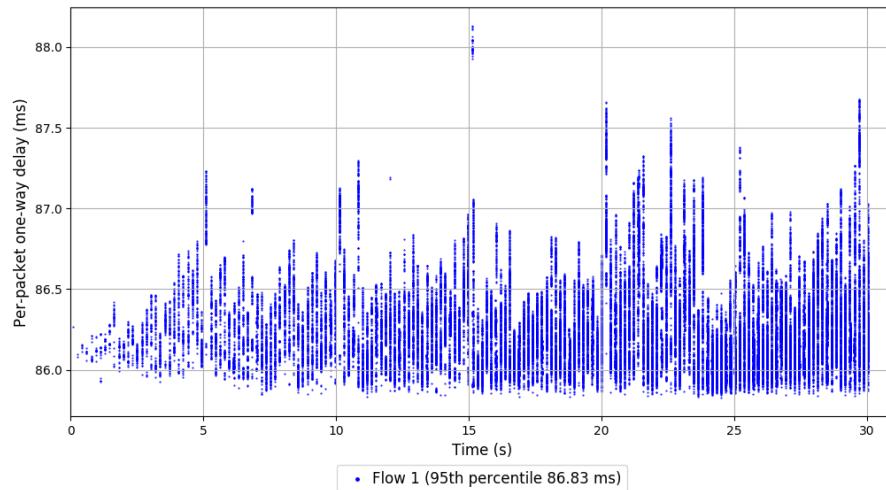
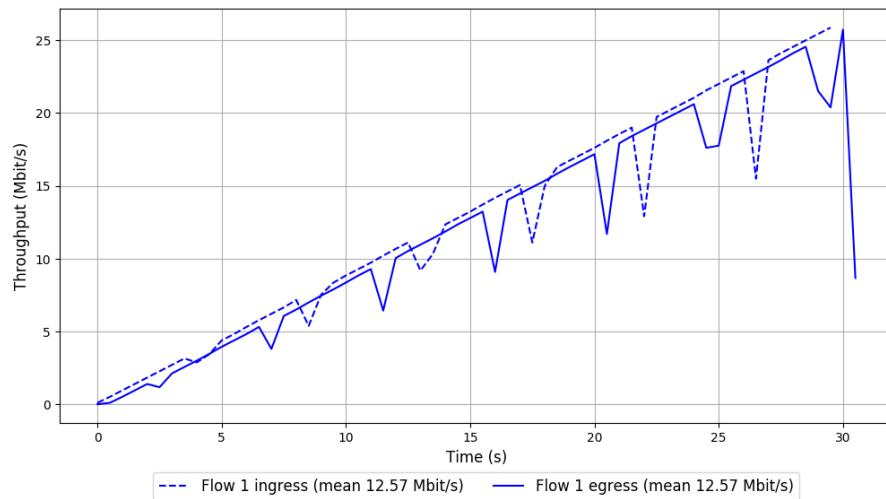


Run 4: Statistics of LEDBAT

```
Start at: 2019-02-19 20:38:17
End at: 2019-02-19 20:38:47
Local clock offset: 3.893 ms
Remote clock offset: 3.511 ms

# Below is generated by plot.py at 2019-02-19 23:05:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 86.826 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 86.826 ms
Loss rate: 0.00%
```

## Run 4: Report of LEDBAT — Data Link

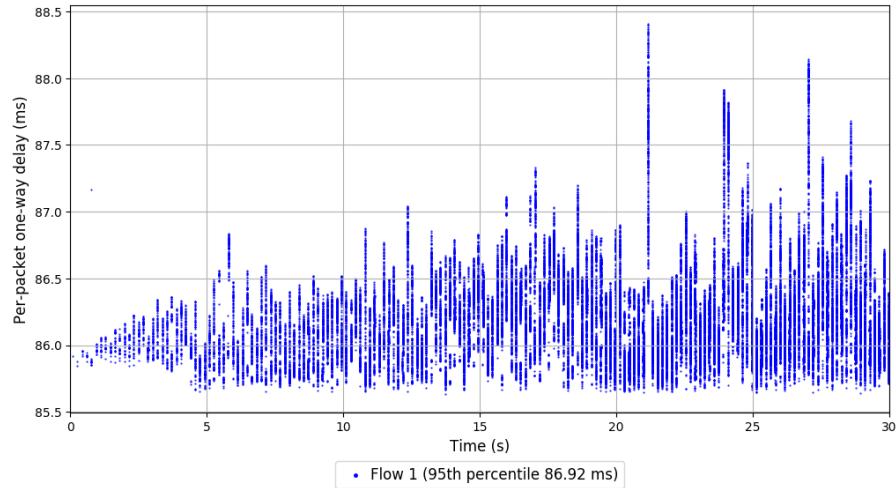
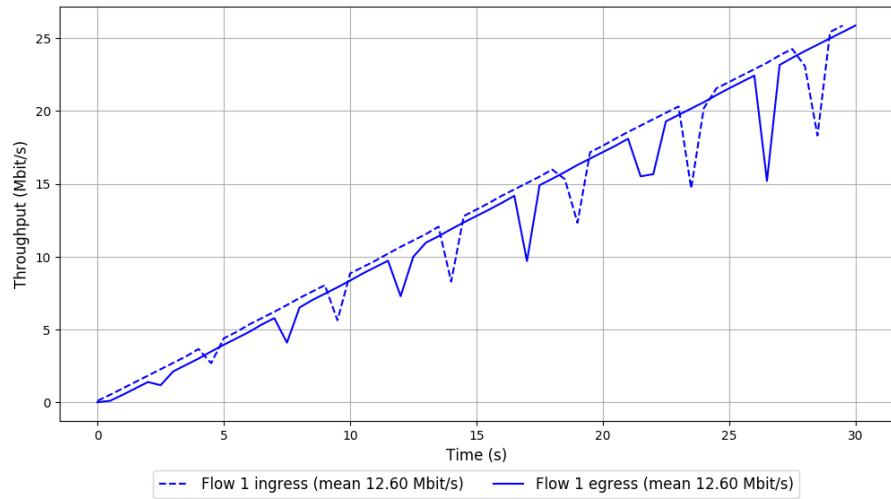


Run 5: Statistics of LEDBAT

```
Start at: 2019-02-19 21:14:35
End at: 2019-02-19 21:15:05
Local clock offset: 2.039 ms
Remote clock offset: 1.656 ms

# Below is generated by plot.py at 2019-02-19 23:05:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 86.919 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 86.919 ms
Loss rate: 0.00%
```

## Run 5: Report of LEDBAT — Data Link

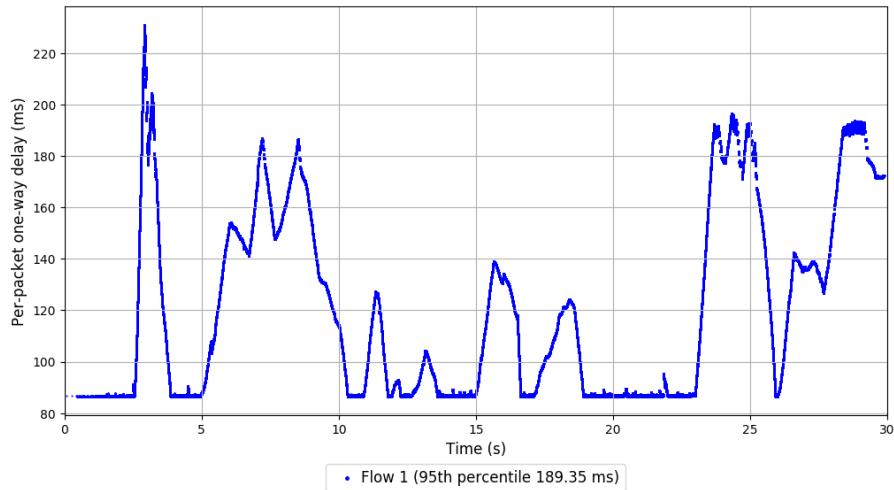
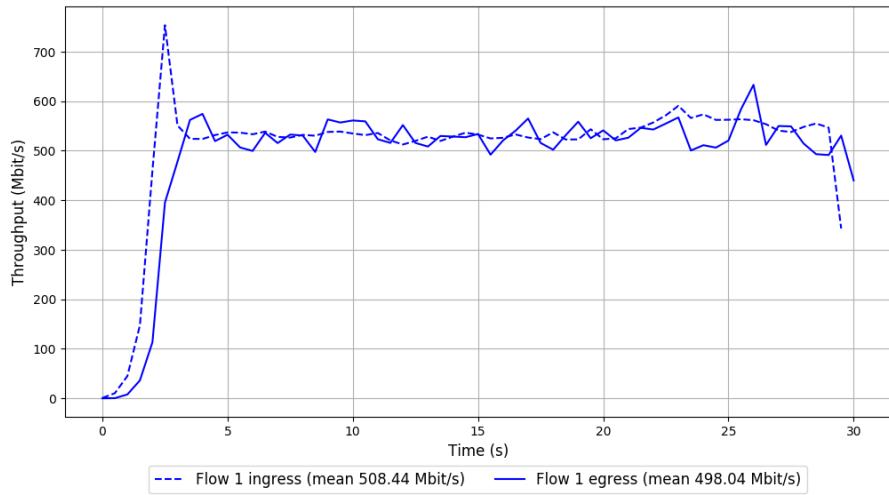


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-02-19 18:42:19
End at: 2019-02-19 18:42:49
Local clock offset: 9.754 ms
Remote clock offset: 9.057 ms

# Below is generated by plot.py at 2019-02-19 23:14:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 498.04 Mbit/s
95th percentile per-packet one-way delay: 189.351 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 498.04 Mbit/s
95th percentile per-packet one-way delay: 189.351 ms
Loss rate: 2.04%
```

Run 1: Report of PCC-Allegro — Data Link

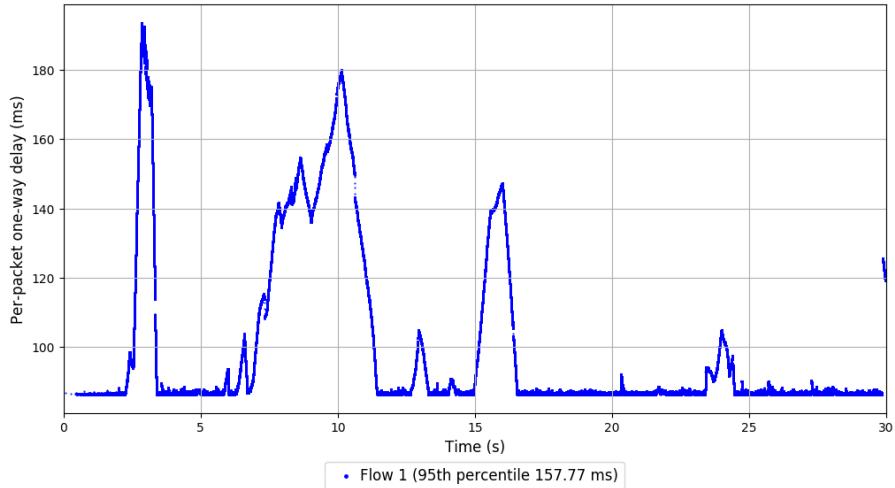
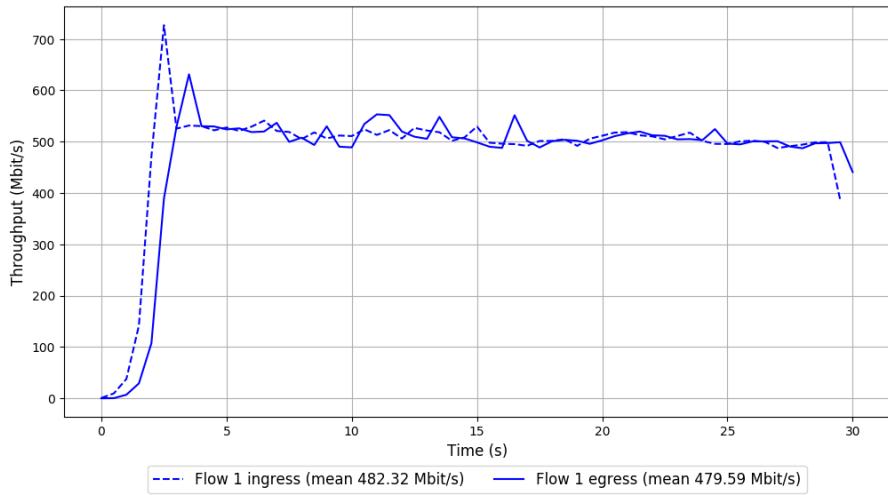


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-02-19 19:19:14
End at: 2019-02-19 19:19:44
Local clock offset: 20.689 ms
Remote clock offset: 20.582 ms

# Below is generated by plot.py at 2019-02-19 23:14:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 479.59 Mbit/s
95th percentile per-packet one-way delay: 157.771 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 479.59 Mbit/s
95th percentile per-packet one-way delay: 157.771 ms
Loss rate: 0.56%
```

Run 2: Report of PCC-Allegro — Data Link

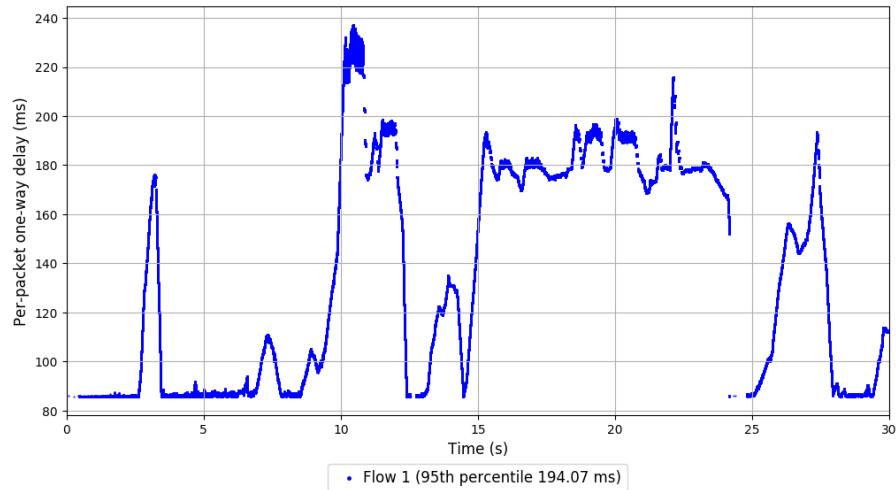
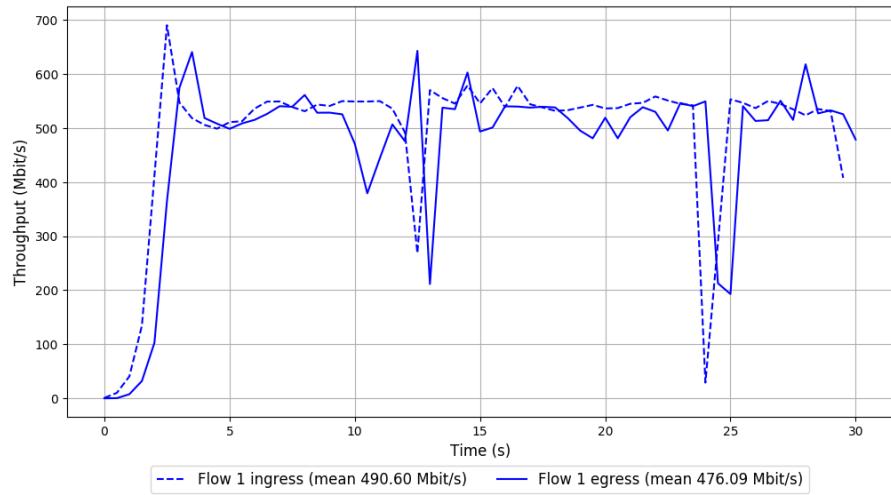


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-02-19 19:55:56
End at: 2019-02-19 19:56:26
Local clock offset: 14.463 ms
Remote clock offset: 9.535 ms

# Below is generated by plot.py at 2019-02-19 23:16:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 476.09 Mbit/s
95th percentile per-packet one-way delay: 194.069 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 476.09 Mbit/s
95th percentile per-packet one-way delay: 194.069 ms
Loss rate: 2.95%
```

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

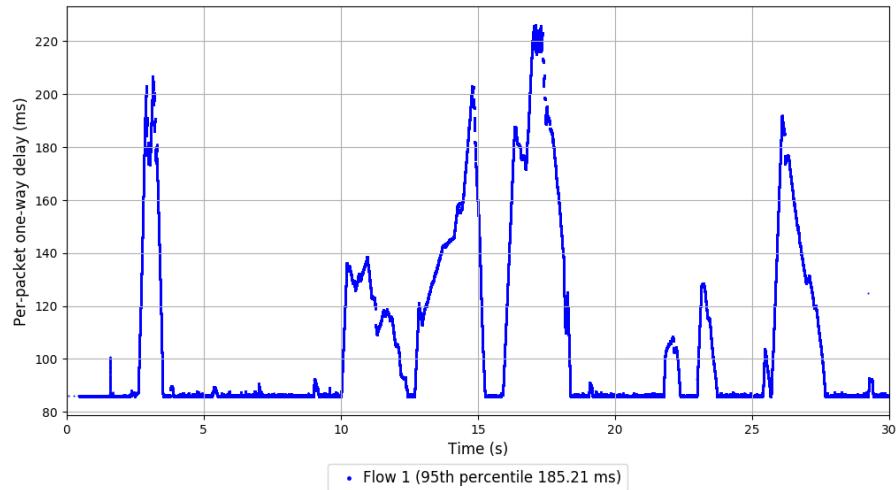
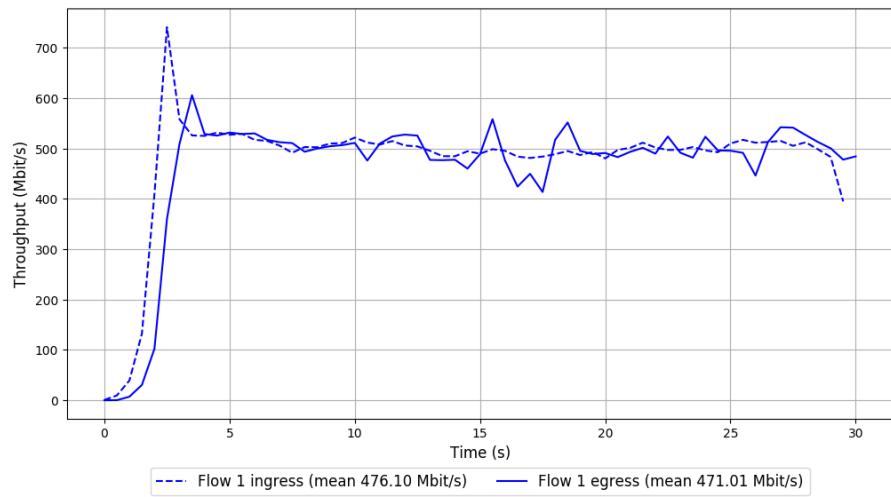


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-02-19 20:30:49
End at: 2019-02-19 20:31:19
Local clock offset: 4.178 ms
Remote clock offset: 3.303 ms

# Below is generated by plot.py at 2019-02-19 23:18:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 471.01 Mbit/s
95th percentile per-packet one-way delay: 185.214 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 471.01 Mbit/s
95th percentile per-packet one-way delay: 185.214 ms
Loss rate: 1.07%
```

Run 4: Report of PCC-Allegro — Data Link

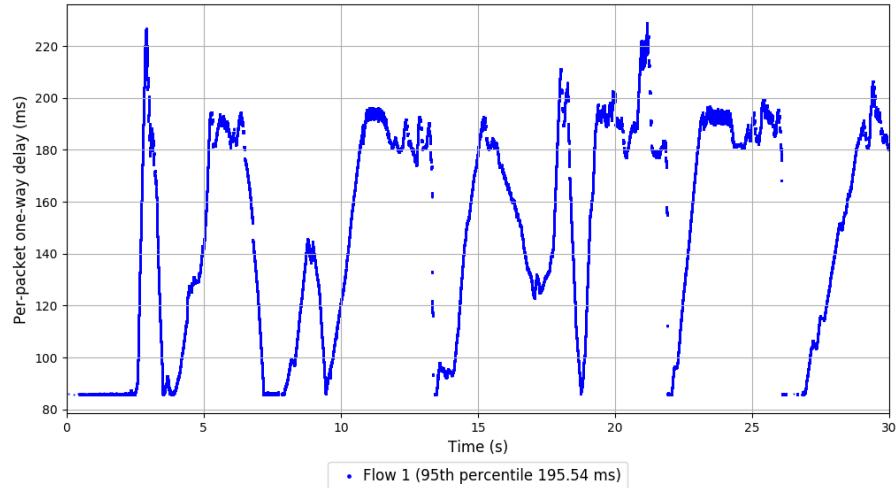
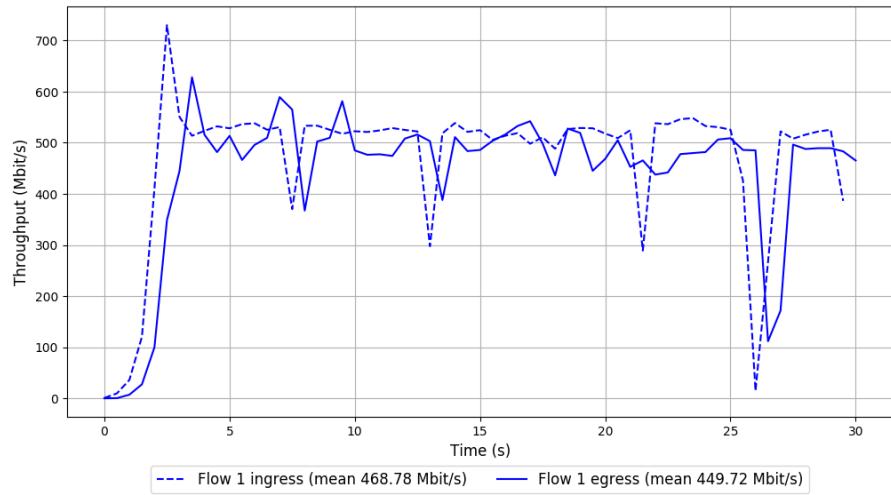


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-02-19 21:07:14
End at: 2019-02-19 21:07:44
Local clock offset: 1.8 ms
Remote clock offset: 1.503 ms

# Below is generated by plot.py at 2019-02-19 23:21:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 449.72 Mbit/s
95th percentile per-packet one-way delay: 195.541 ms
Loss rate: 4.06%
-- Flow 1:
Average throughput: 449.72 Mbit/s
95th percentile per-packet one-way delay: 195.541 ms
Loss rate: 4.06%
```

Run 5: Report of PCC-Allegro — Data Link

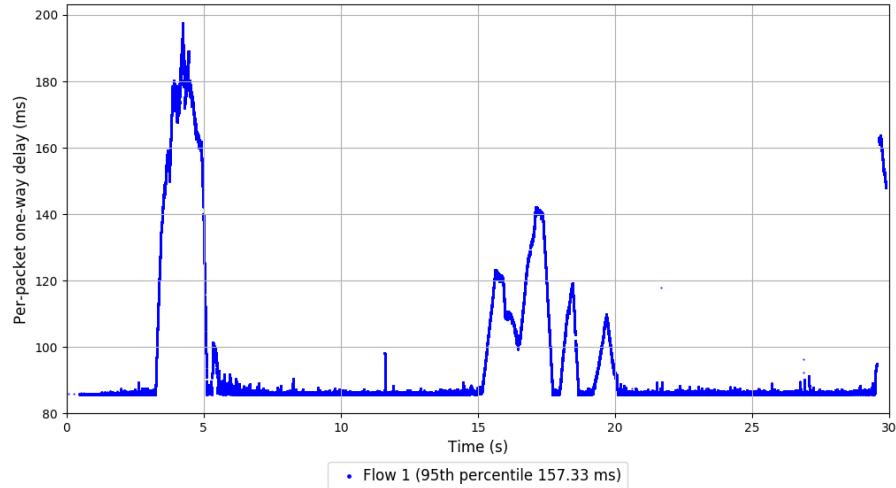
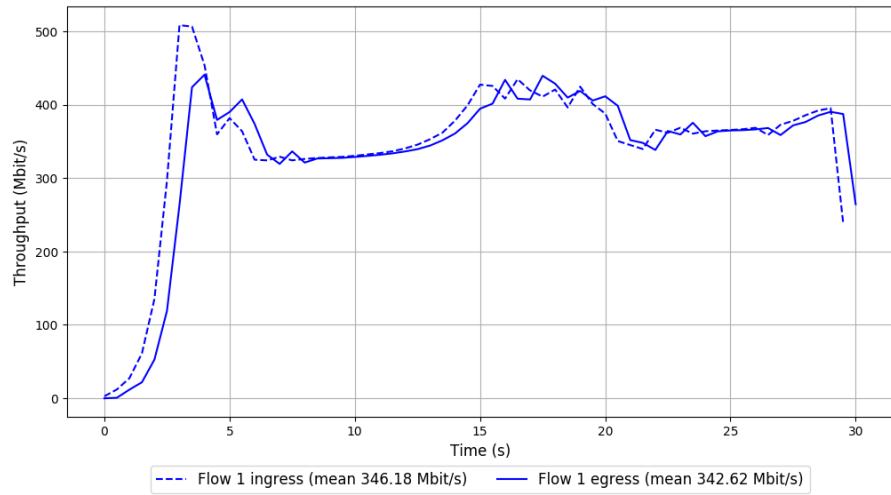


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-02-19 19:04:56
End at: 2019-02-19 19:05:26
Local clock offset: 23.13 ms
Remote clock offset: 24.452 ms

# Below is generated by plot.py at 2019-02-19 23:21:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.62 Mbit/s
95th percentile per-packet one-way delay: 157.327 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 342.62 Mbit/s
95th percentile per-packet one-way delay: 157.327 ms
Loss rate: 1.03%
```

Run 1: Report of PCC-Expr — Data Link

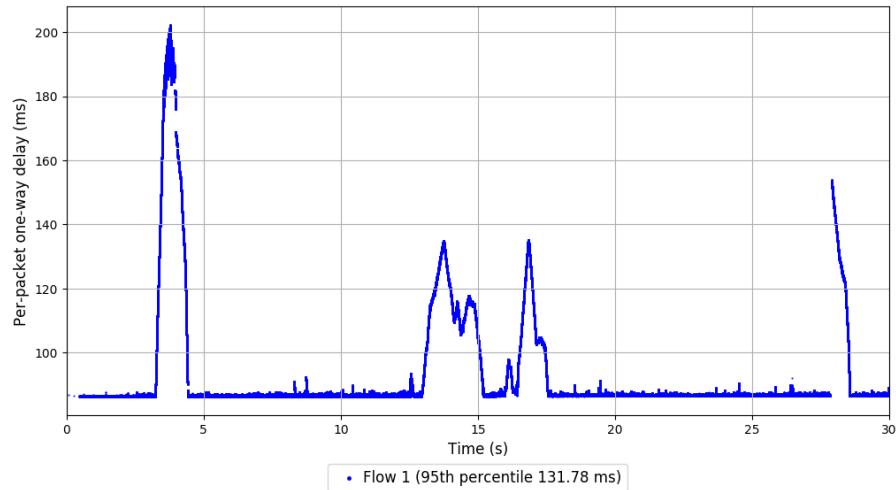
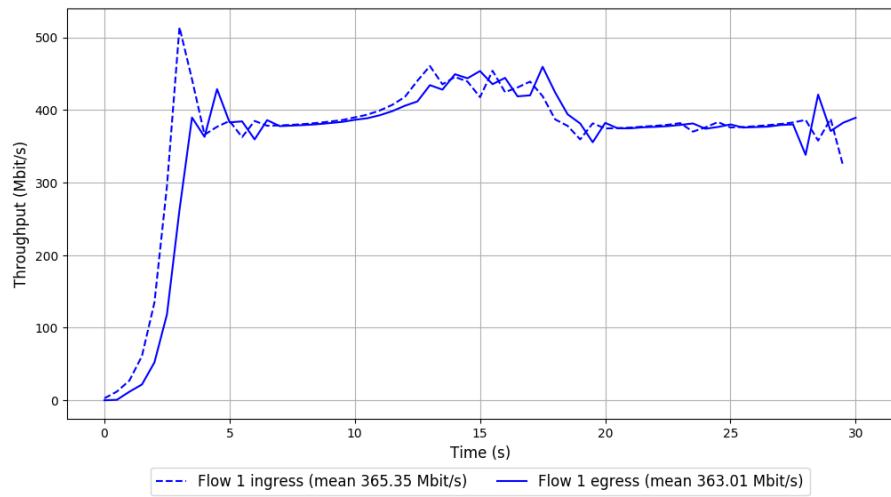


Run 2: Statistics of PCC-Expr

```
Start at: 2019-02-19 19:42:12
End at: 2019-02-19 19:42:42
Local clock offset: 24.749 ms
Remote clock offset: 25.867 ms

# Below is generated by plot.py at 2019-02-19 23:21:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 363.01 Mbit/s
95th percentile per-packet one-way delay: 131.785 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 363.01 Mbit/s
95th percentile per-packet one-way delay: 131.785 ms
Loss rate: 0.64%
```

Run 2: Report of PCC-Expr — Data Link

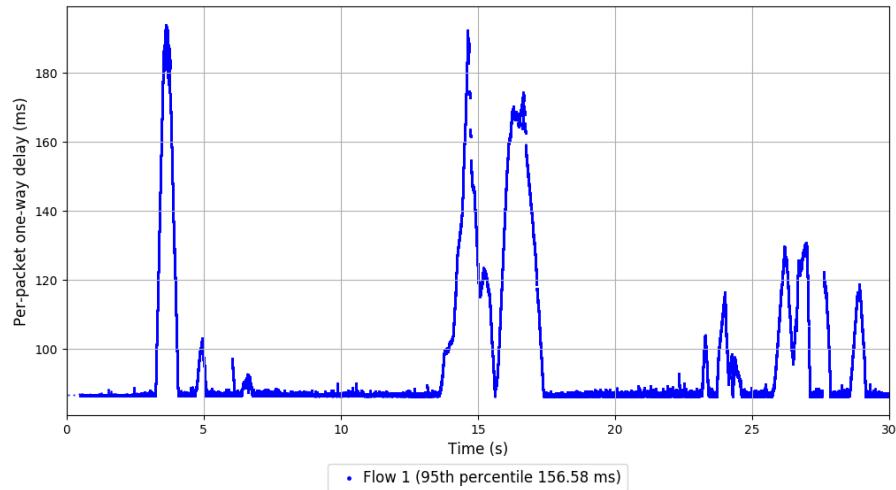
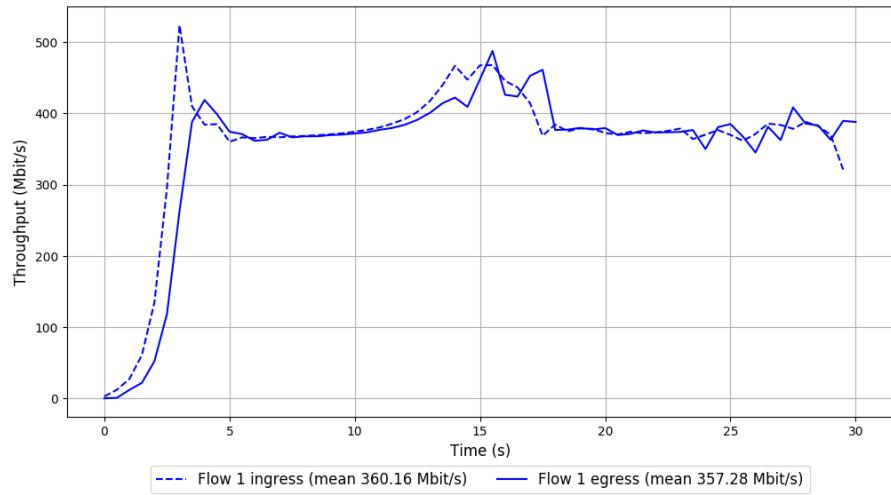


Run 3: Statistics of PCC-Expr

```
Start at: 2019-02-19 20:18:01
End at: 2019-02-19 20:18:32
Local clock offset: 9.711 ms
Remote clock offset: 5.837 ms

# Below is generated by plot.py at 2019-02-19 23:21:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 357.28 Mbit/s
95th percentile per-packet one-way delay: 156.578 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 357.28 Mbit/s
95th percentile per-packet one-way delay: 156.578 ms
Loss rate: 0.80%
```

Run 3: Report of PCC-Expr — Data Link

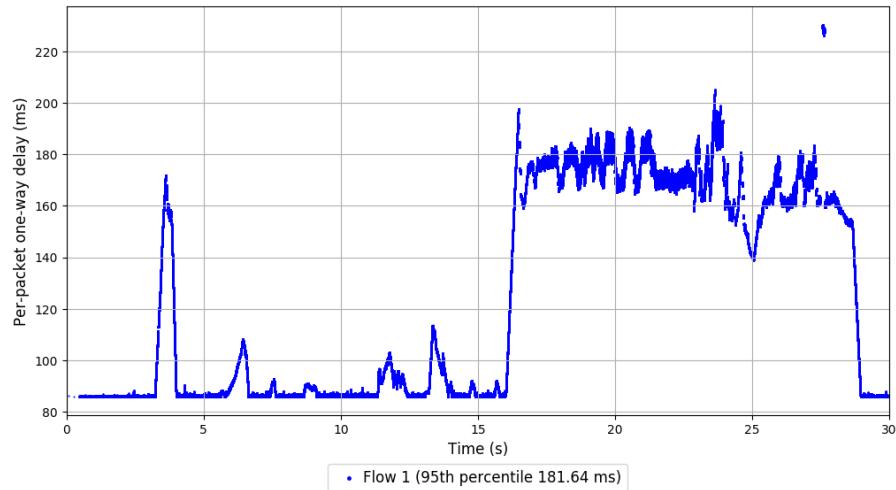
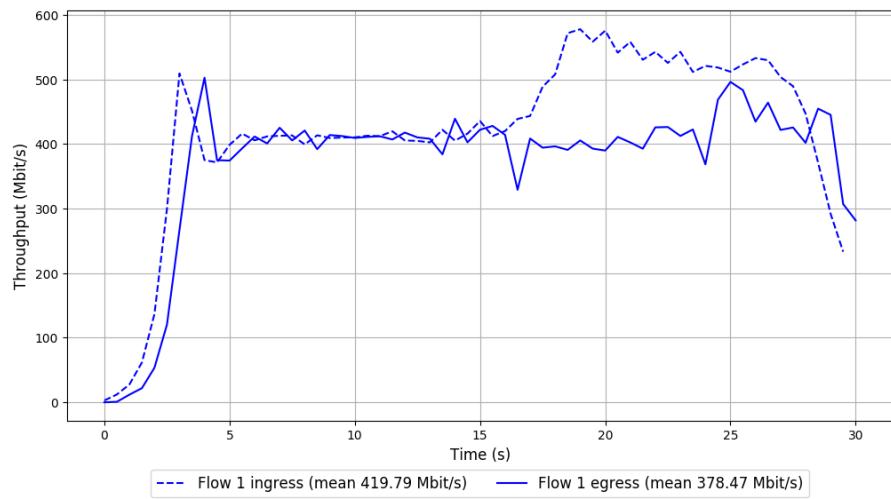


Run 4: Statistics of PCC-Expr

```
Start at: 2019-02-19 20:53:00
End at: 2019-02-19 20:53:30
Local clock offset: 2.315 ms
Remote clock offset: 2.373 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 378.47 Mbit/s
95th percentile per-packet one-way delay: 181.637 ms
Loss rate: 9.84%
-- Flow 1:
Average throughput: 378.47 Mbit/s
95th percentile per-packet one-way delay: 181.637 ms
Loss rate: 9.84%
```

Run 4: Report of PCC-Expr — Data Link

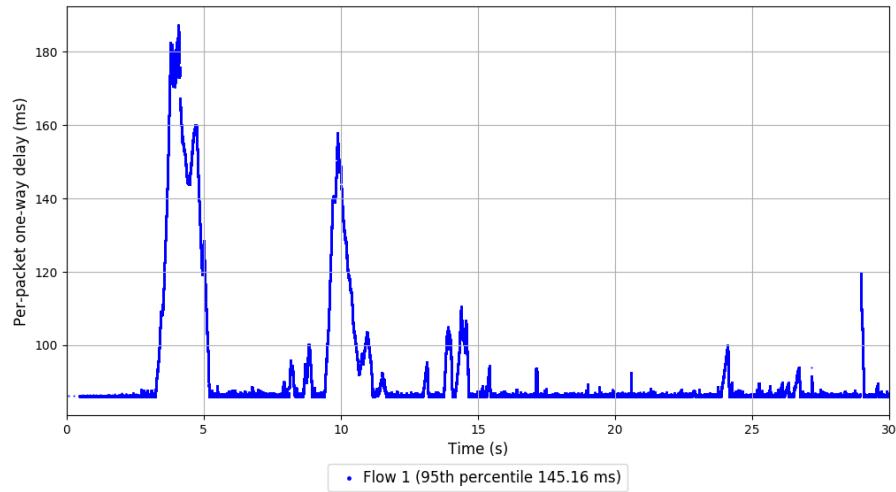
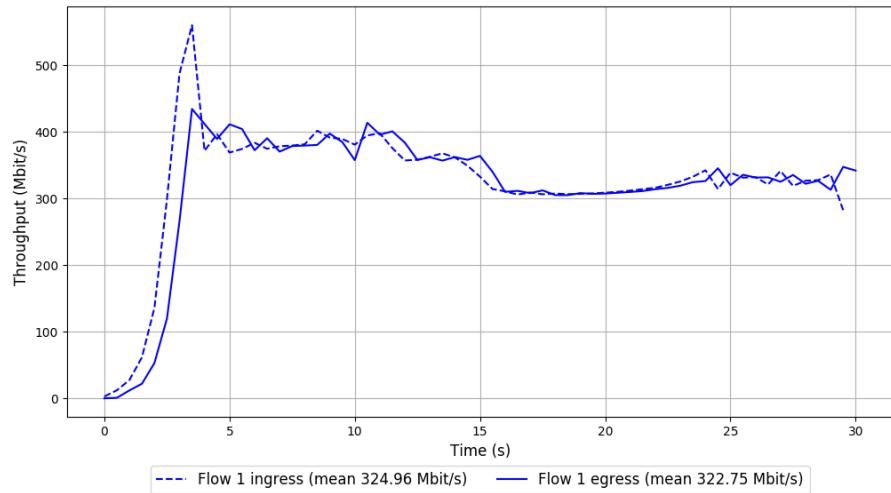


Run 5: Statistics of PCC-Expr

```
Start at: 2019-02-19 21:28:23
End at: 2019-02-19 21:28:53
Local clock offset: 0.895 ms
Remote clock offset: 1.002 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.75 Mbit/s
95th percentile per-packet one-way delay: 145.161 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 322.75 Mbit/s
95th percentile per-packet one-way delay: 145.161 ms
Loss rate: 0.68%
```

Run 5: Report of PCC-Expr — Data Link

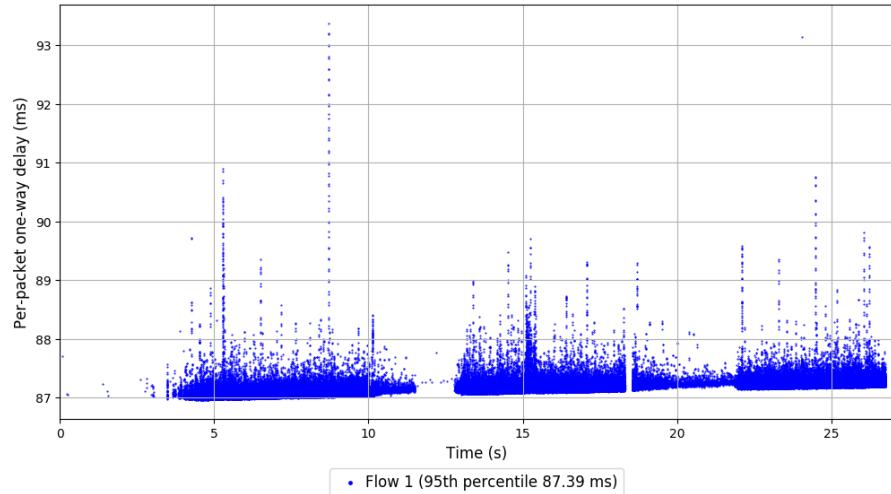
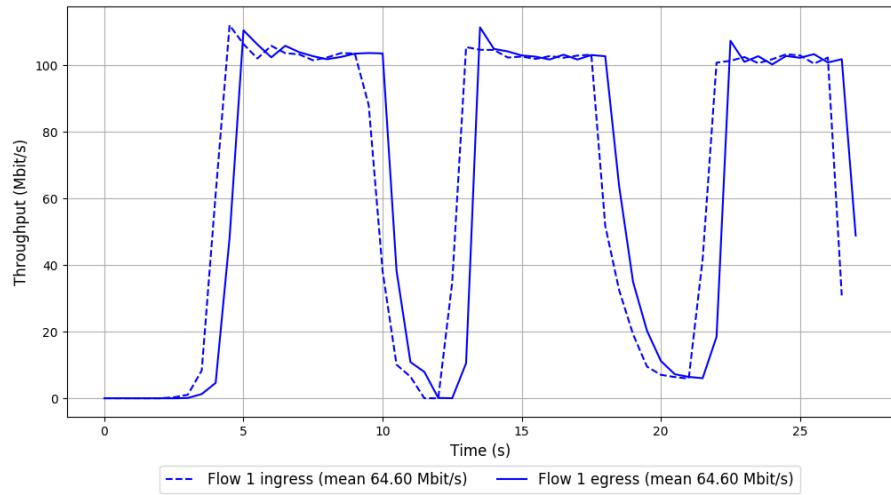


Run 1: Statistics of QUIC Cubic

```
Start at: 2019-02-19 18:36:09
End at: 2019-02-19 18:36:39
Local clock offset: 6.82 ms
Remote clock offset: 5.861 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.60 Mbit/s
95th percentile per-packet one-way delay: 87.391 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.60 Mbit/s
95th percentile per-packet one-way delay: 87.391 ms
Loss rate: 0.00%
```

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

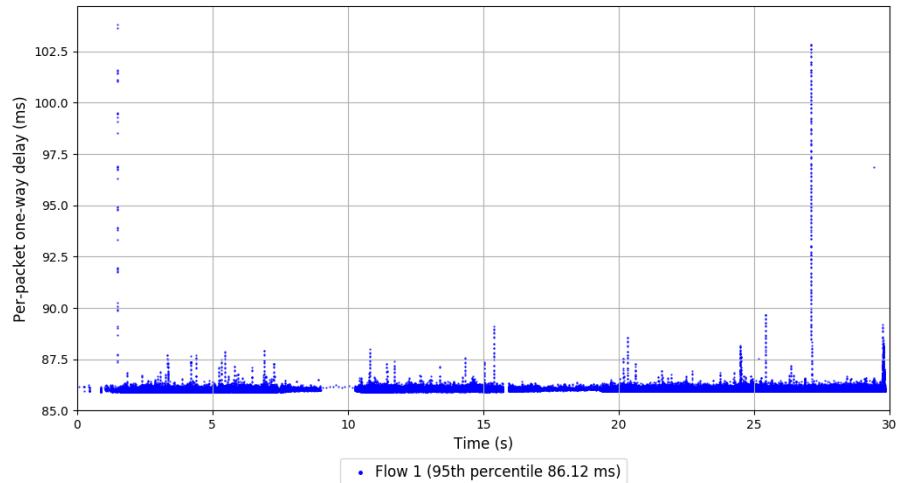
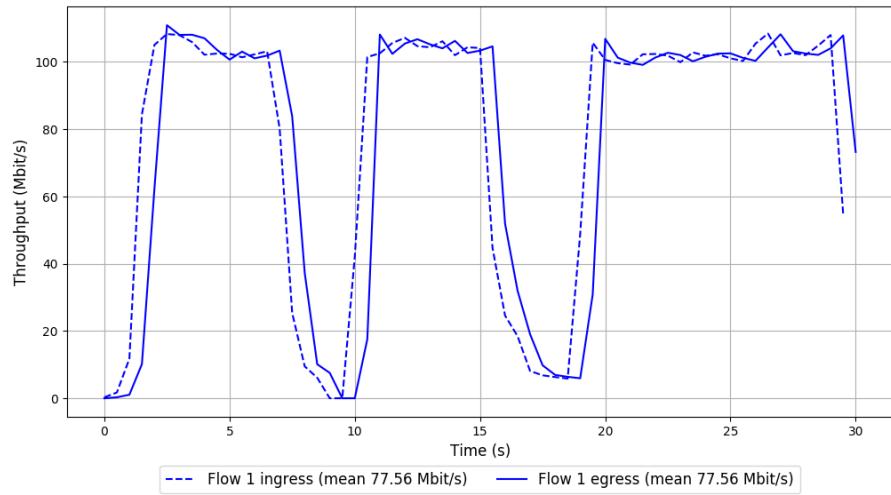


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-02-19 19:12:50
End at: 2019-02-19 19:13:20
Local clock offset: 18.421 ms
Remote clock offset: 18.614 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.56 Mbit/s
95th percentile per-packet one-way delay: 86.124 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.56 Mbit/s
95th percentile per-packet one-way delay: 86.124 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

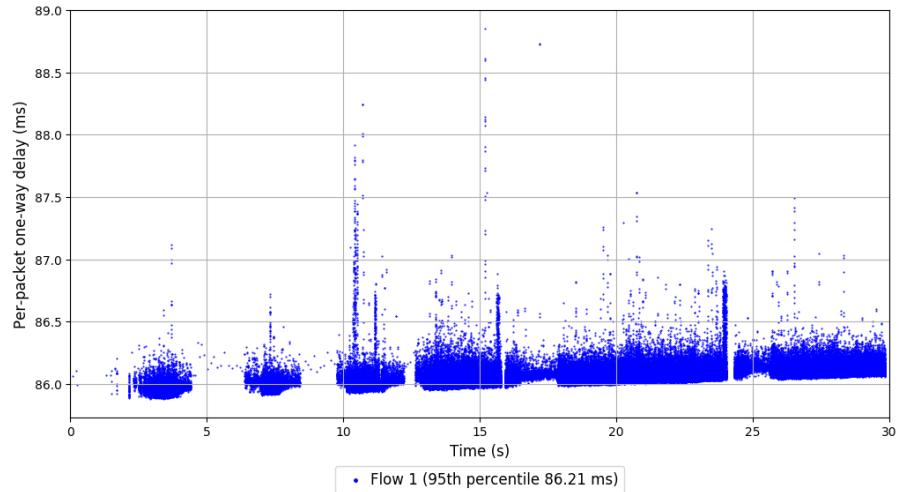
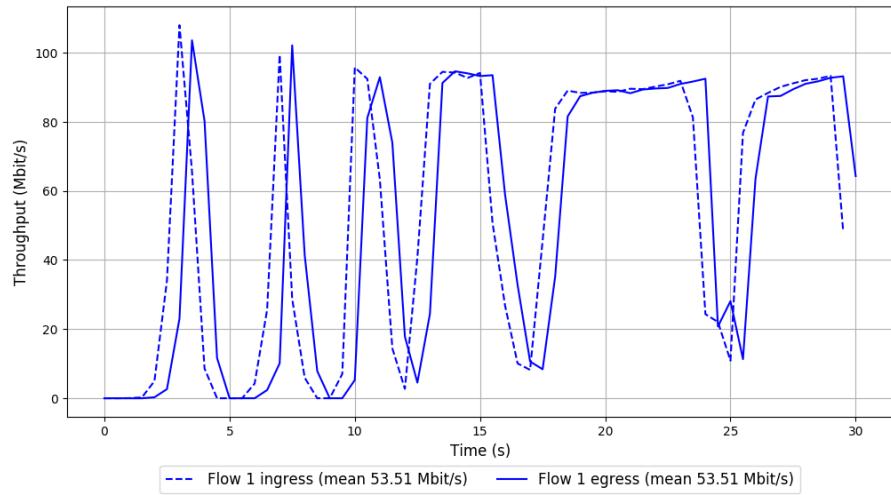


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-02-19 19:49:48
End at: 2019-02-19 19:50:18
Local clock offset: 15.624 ms
Remote clock offset: 13.159 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.51 Mbit/s
95th percentile per-packet one-way delay: 86.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.51 Mbit/s
95th percentile per-packet one-way delay: 86.206 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

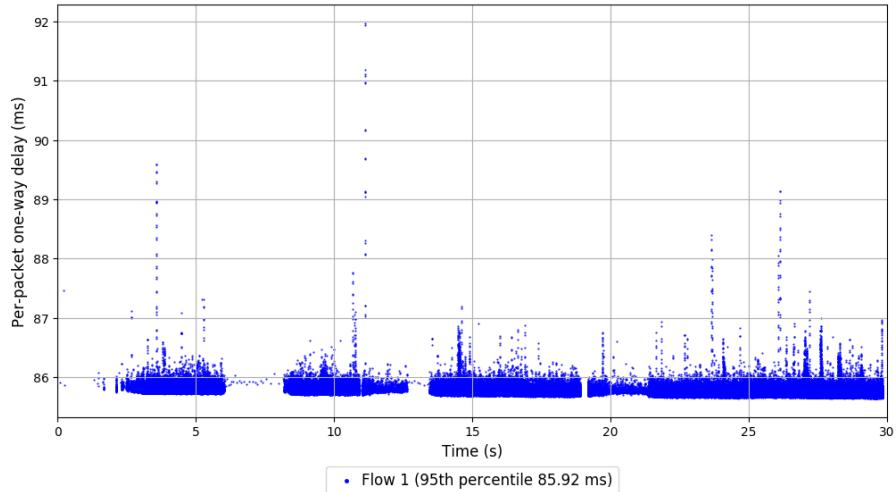
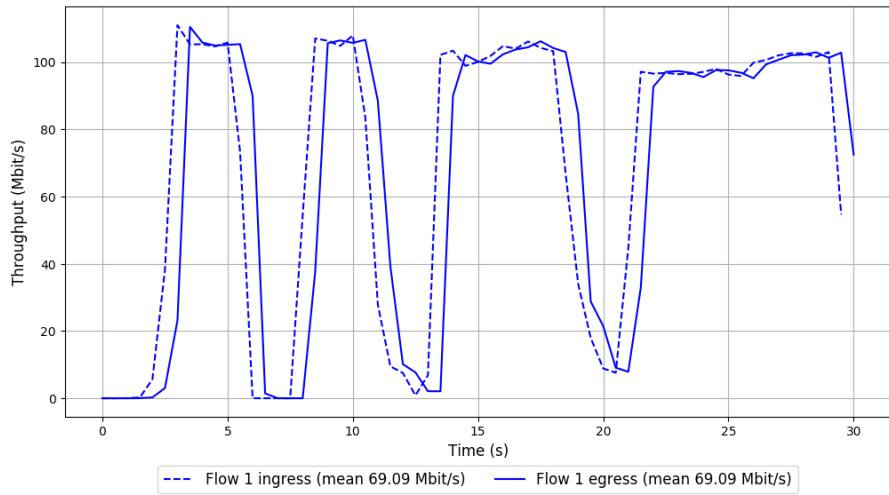


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-02-19 20:24:56
End at: 2019-02-19 20:25:26
Local clock offset: 5.632 ms
Remote clock offset: 3.749 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.09 Mbit/s
95th percentile per-packet one-way delay: 85.918 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.09 Mbit/s
95th percentile per-packet one-way delay: 85.918 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

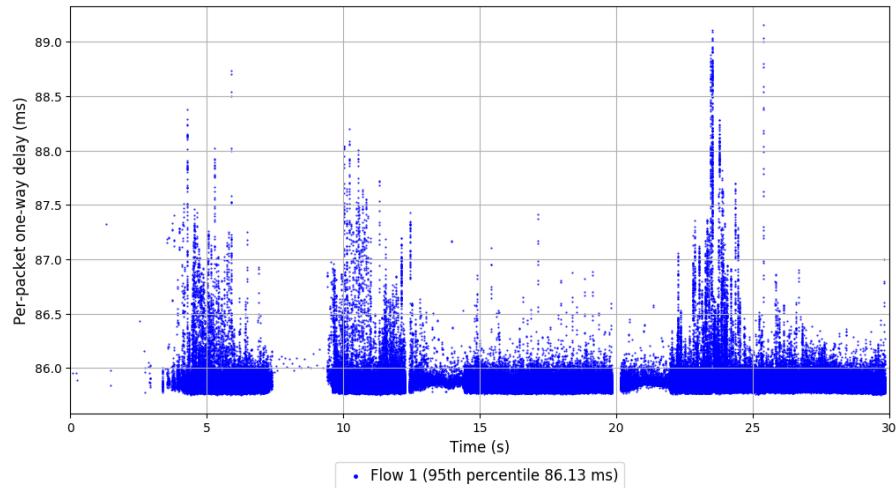
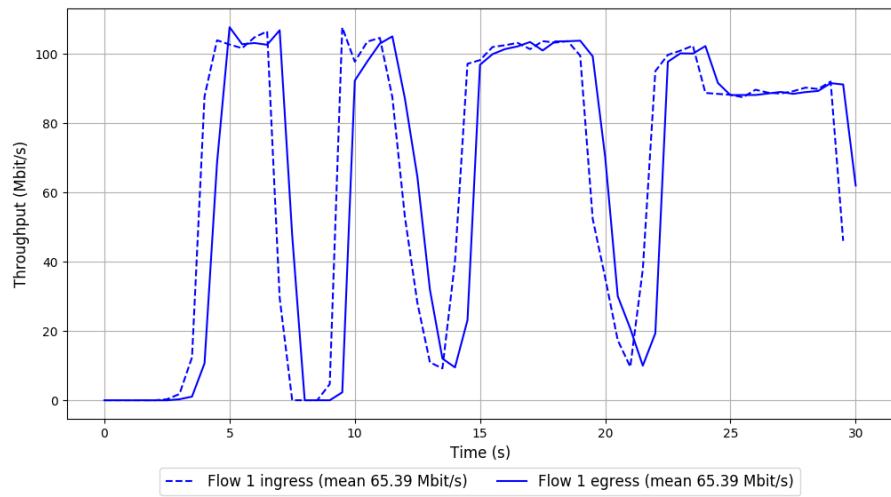


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-02-19 21:01:13
End at: 2019-02-19 21:01:43
Local clock offset: 1.675 ms
Remote clock offset: 1.538 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.39 Mbit/s
95th percentile per-packet one-way delay: 86.127 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.39 Mbit/s
95th percentile per-packet one-way delay: 86.127 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

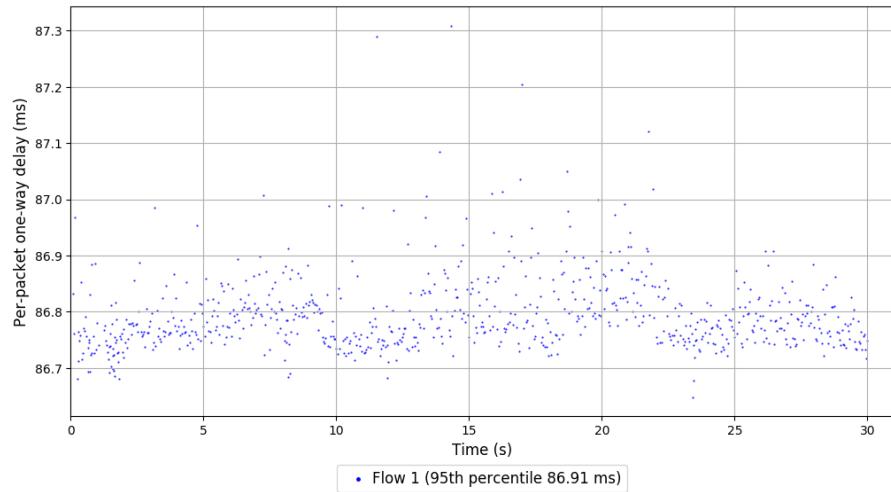
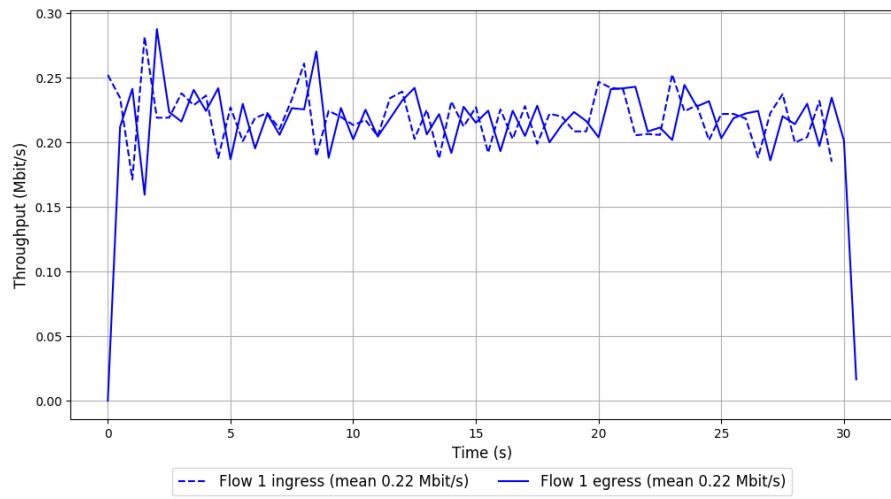


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-02-19 18:55:09
End at: 2019-02-19 18:55:39
Local clock offset: 14.487 ms
Remote clock offset: 14.077 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.908 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.908 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

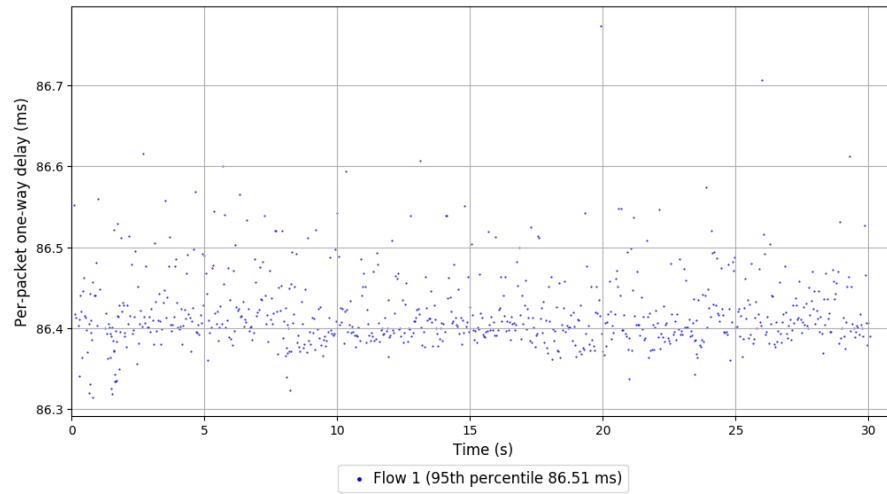
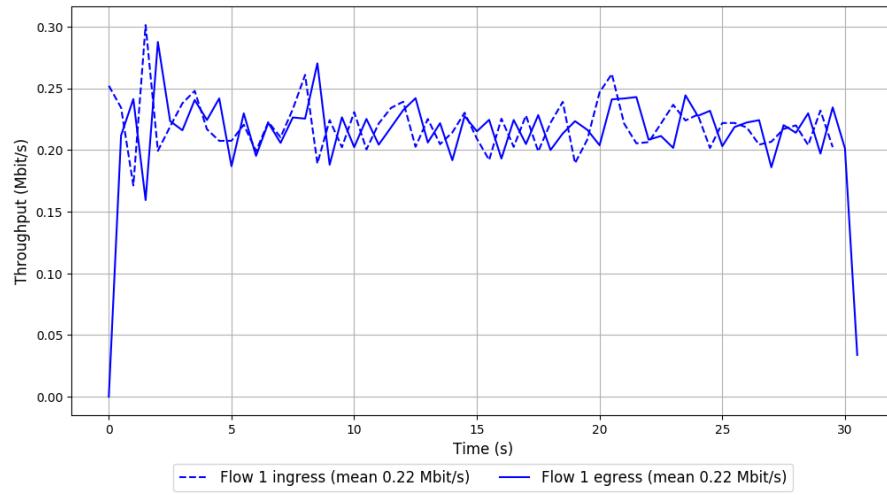


Run 2: Statistics of SCReAM

```
Start at: 2019-02-19 19:32:30
End at: 2019-02-19 19:33:00
Local clock offset: 32.169 ms
Remote clock offset: 31.528 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.514 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.514 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

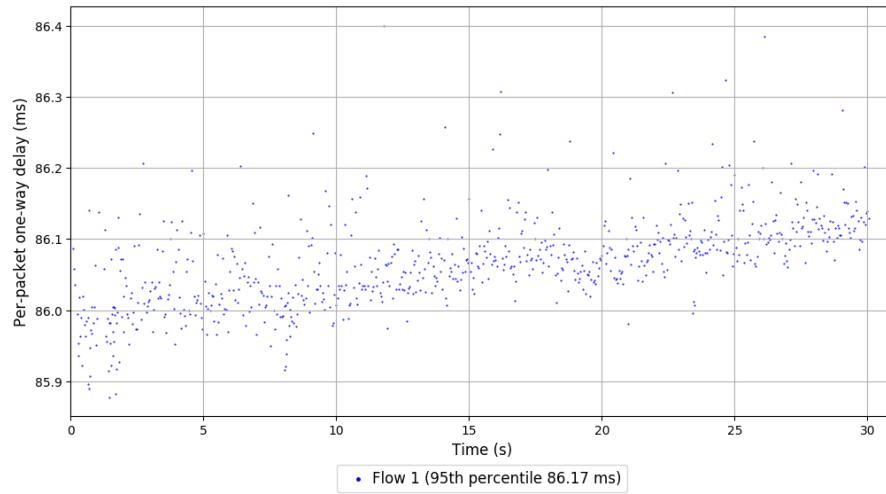
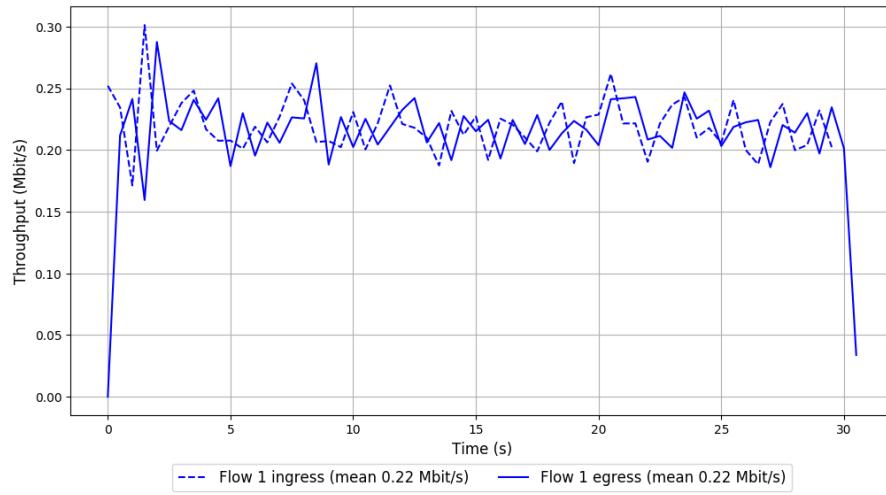


Run 3: Statistics of SCReAM

```
Start at: 2019-02-19 20:08:44
End at: 2019-02-19 20:09:14
Local clock offset: 17.843 ms
Remote clock offset: 9.063 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.165 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.165 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

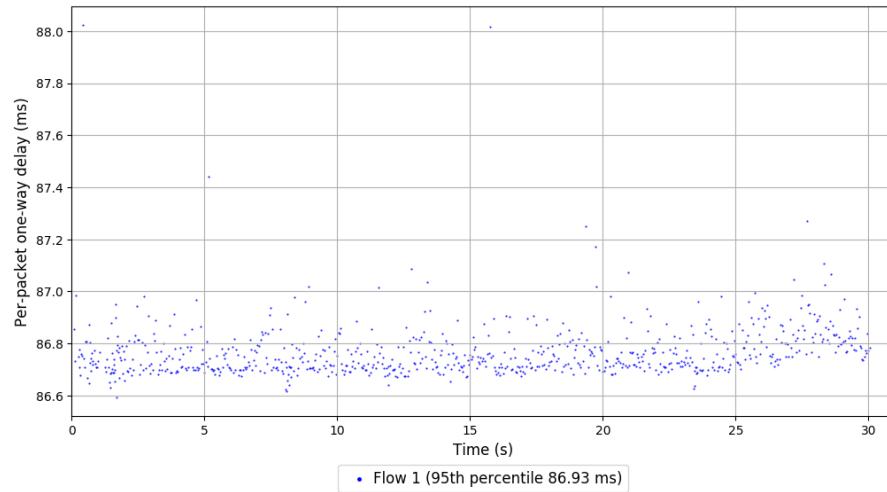
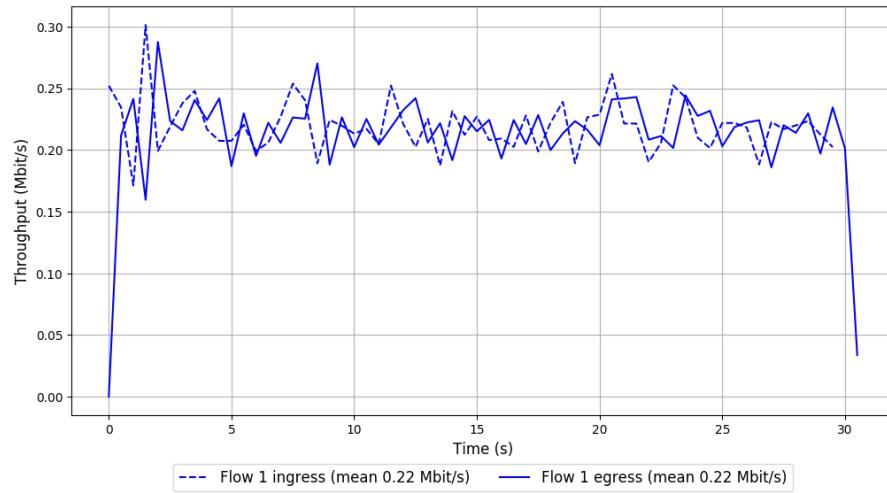


Run 4: Statistics of SCReAM

```
Start at: 2019-02-19 20:43:28
End at: 2019-02-19 20:43:58
Local clock offset: 3.585 ms
Remote clock offset: 3.896 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.927 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.927 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

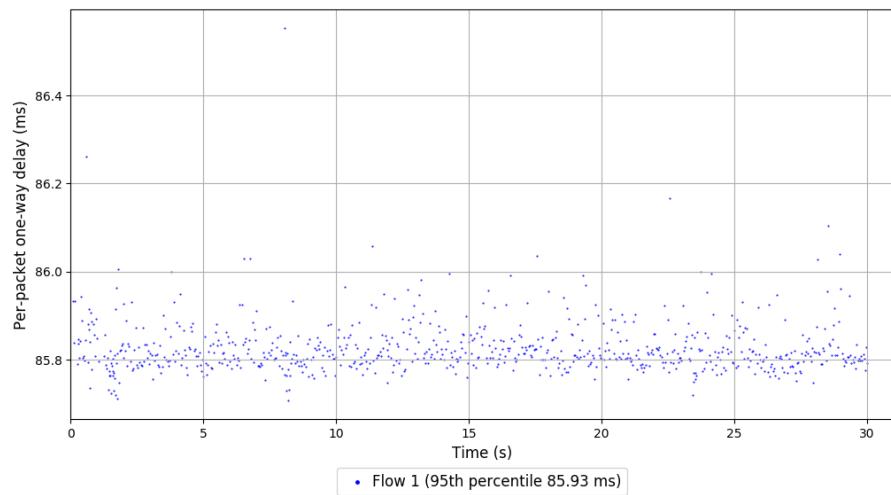
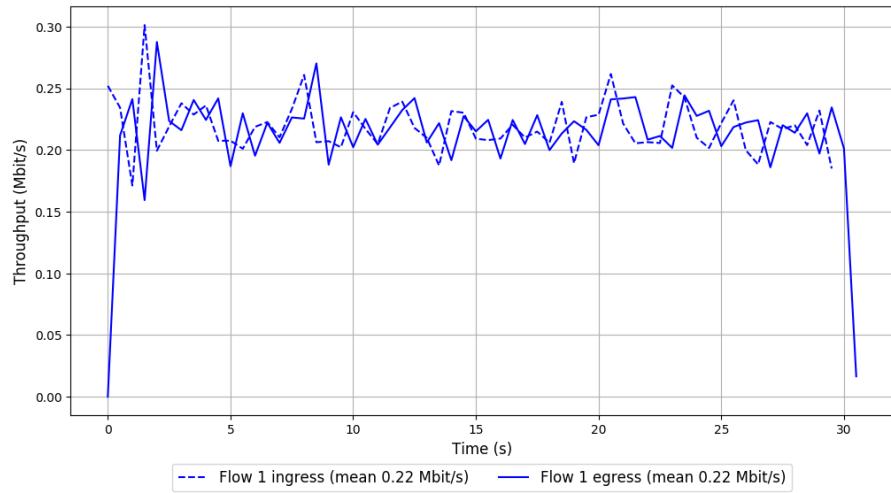


Run 5: Statistics of SCReAM

```
Start at: 2019-02-19 21:19:06
End at: 2019-02-19 21:19:36
Local clock offset: 2.225 ms
Remote clock offset: 1.896 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.930 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.930 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

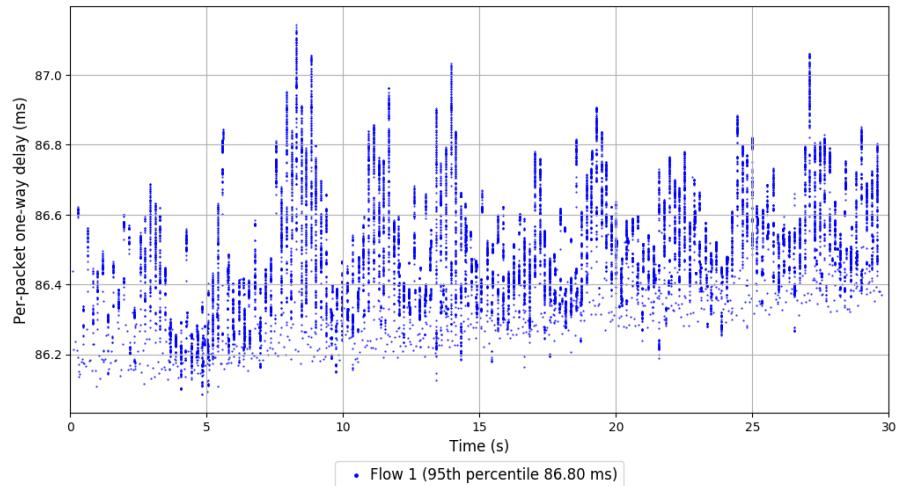
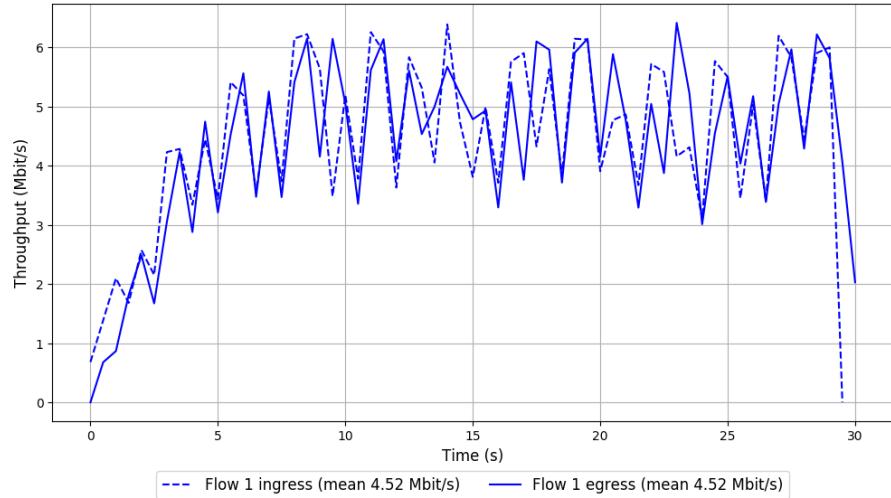


Run 1: Statistics of Sprout

```
Start at: 2019-02-19 18:41:09
End at: 2019-02-19 18:41:39
Local clock offset: 8.647 ms
Remote clock offset: 8.325 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 86.800 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 86.800 ms
Loss rate: 0.00%
```

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

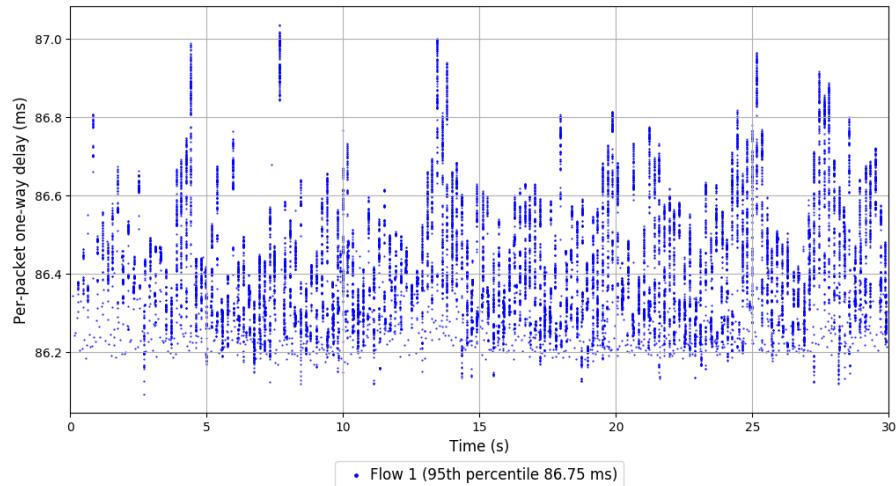
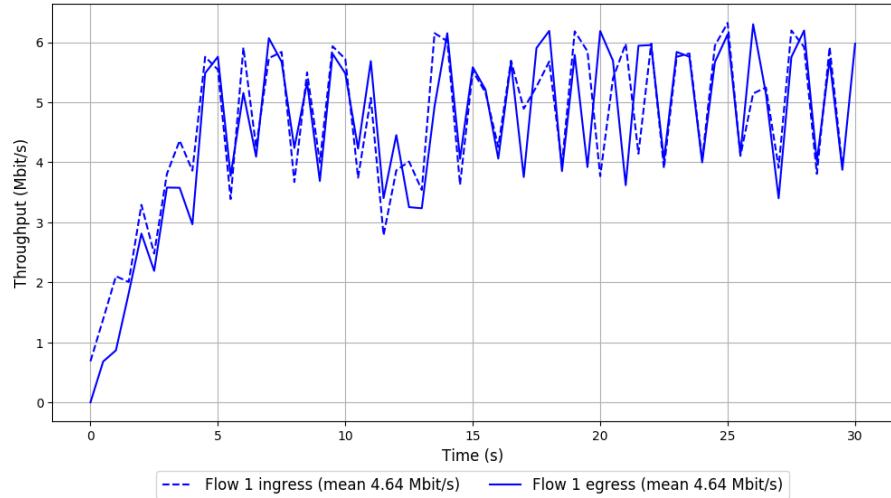


Run 2: Statistics of Sprout

```
Start at: 2019-02-19 19:18:04
End at: 2019-02-19 19:18:34
Local clock offset: 20.396 ms
Remote clock offset: 19.947 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.64 Mbit/s
95th percentile per-packet one-way delay: 86.746 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.64 Mbit/s
95th percentile per-packet one-way delay: 86.746 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link

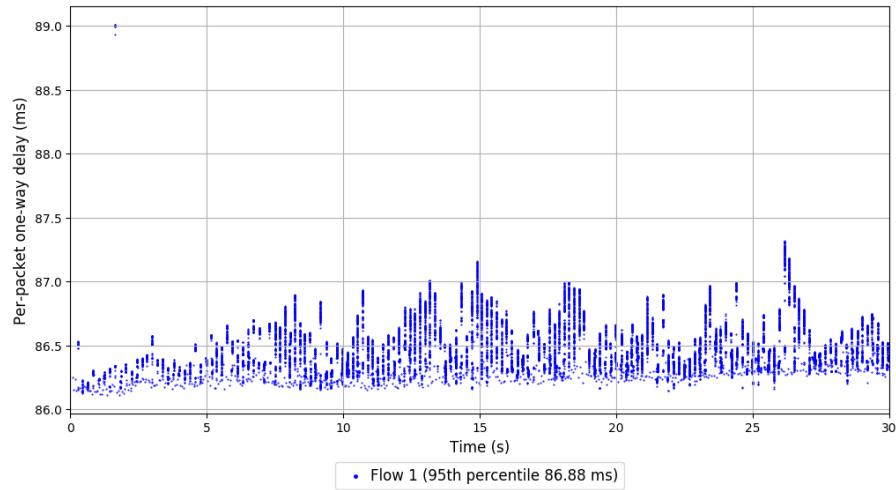
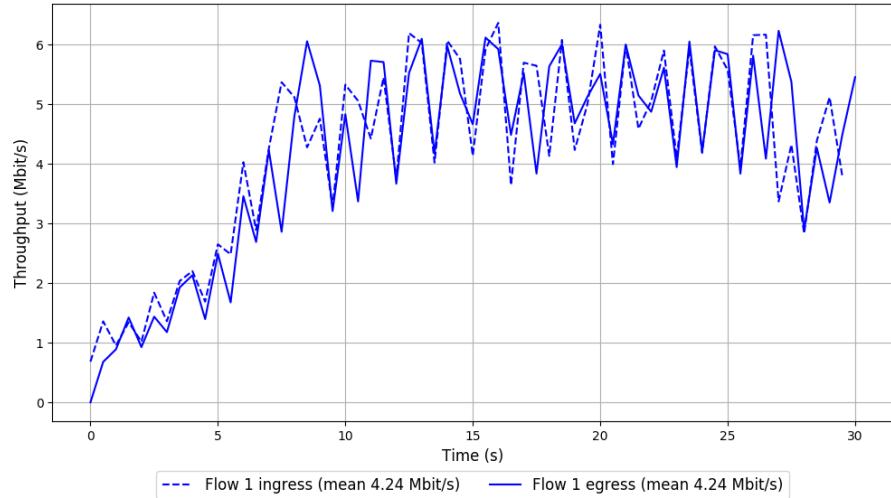


Run 3: Statistics of Sprout

```
Start at: 2019-02-19 19:54:46
End at: 2019-02-19 19:55:17
Local clock offset: 14.212 ms
Remote clock offset: 9.959 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 86.877 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 86.877 ms
Loss rate: 0.00%
```

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

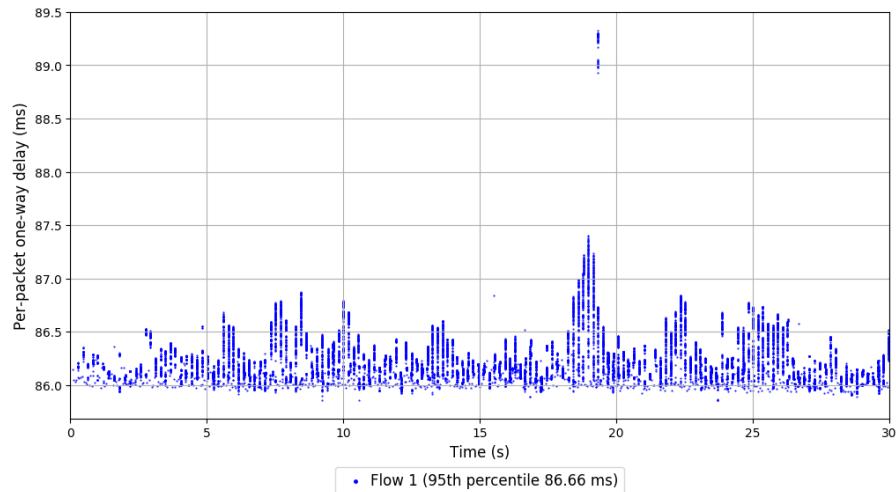
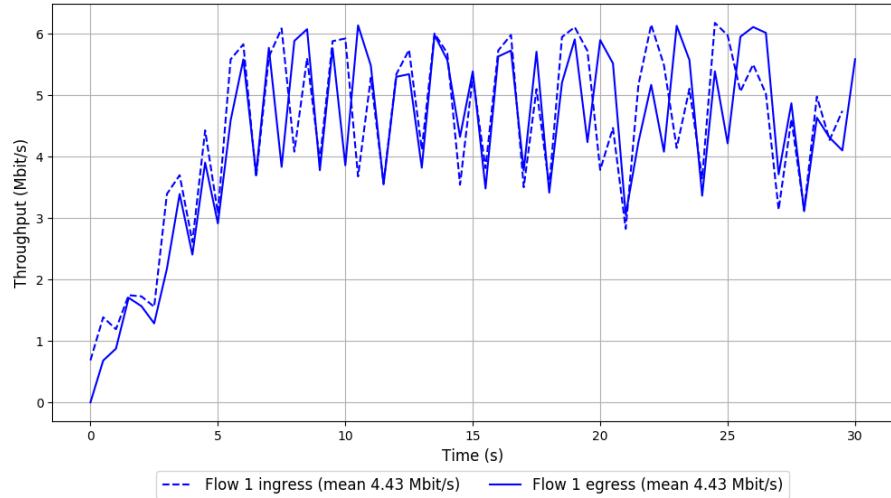


Run 4: Statistics of Sprout

```
Start at: 2019-02-19 20:29:39
End at: 2019-02-19 20:30:09
Local clock offset: 4.374 ms
Remote clock offset: 3.317 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 86.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 86.656 ms
Loss rate: 0.00%
```

## Run 4: Report of Sprout — Data Link

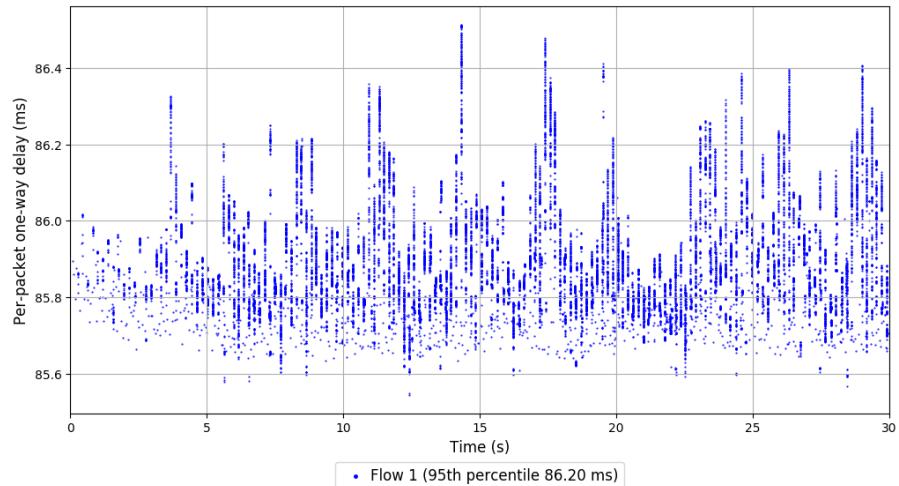
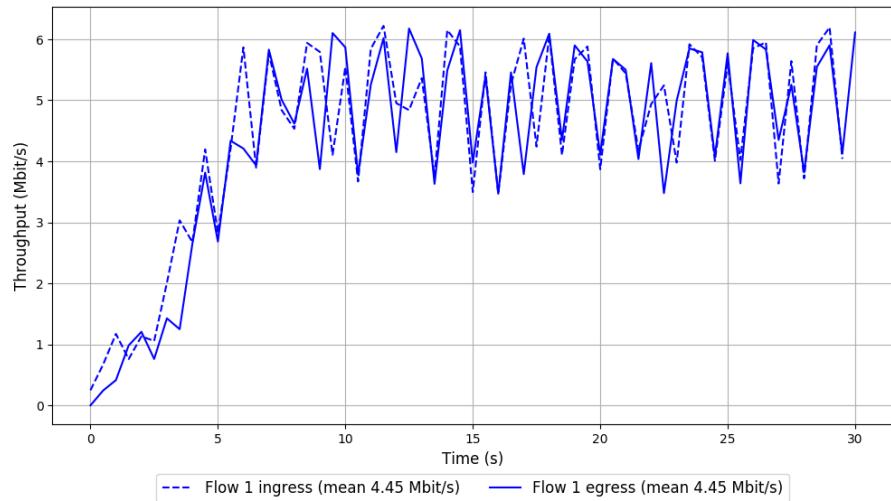


Run 5: Statistics of Sprout

```
Start at: 2019-02-19 21:06:05
End at: 2019-02-19 21:06:35
Local clock offset: 1.961 ms
Remote clock offset: 1.501 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 86.196 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 86.196 ms
Loss rate: 0.00%
```

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

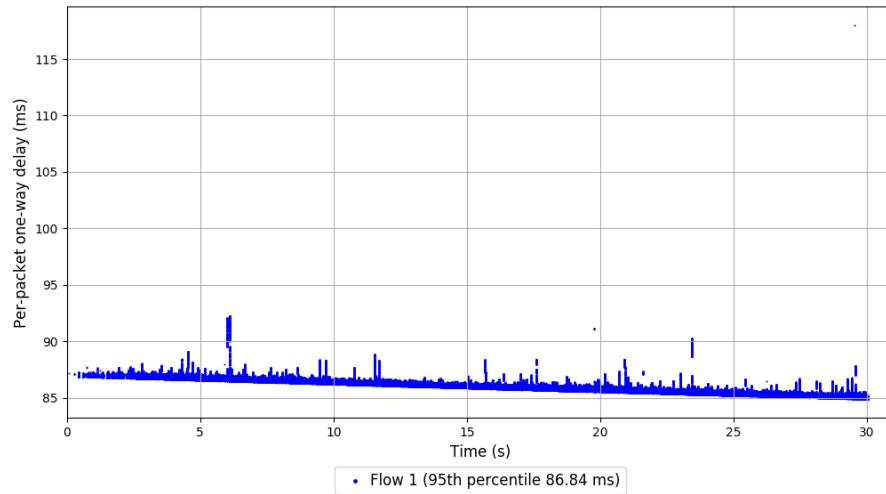
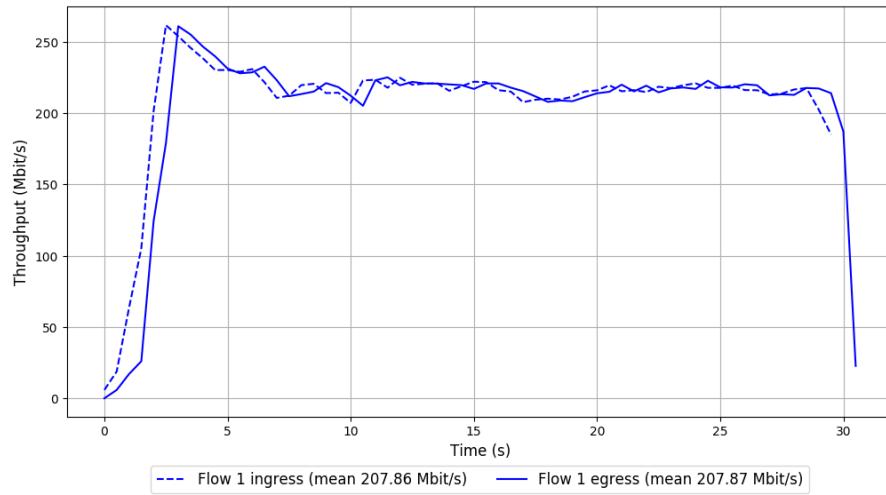


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-02-19 18:46:17
End at: 2019-02-19 18:46:47
Local clock offset: 15.844 ms
Remote clock offset: 15.048 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.87 Mbit/s
95th percentile per-packet one-way delay: 86.842 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 207.87 Mbit/s
95th percentile per-packet one-way delay: 86.842 ms
Loss rate: 0.00%
```

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

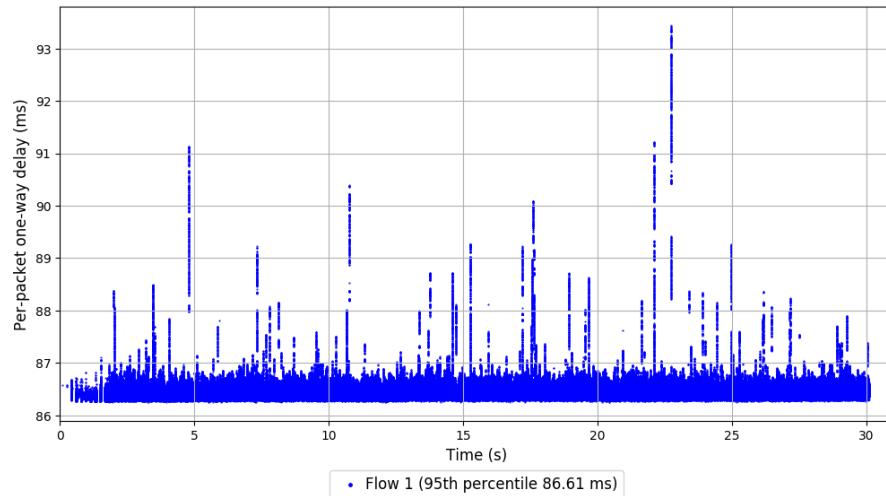
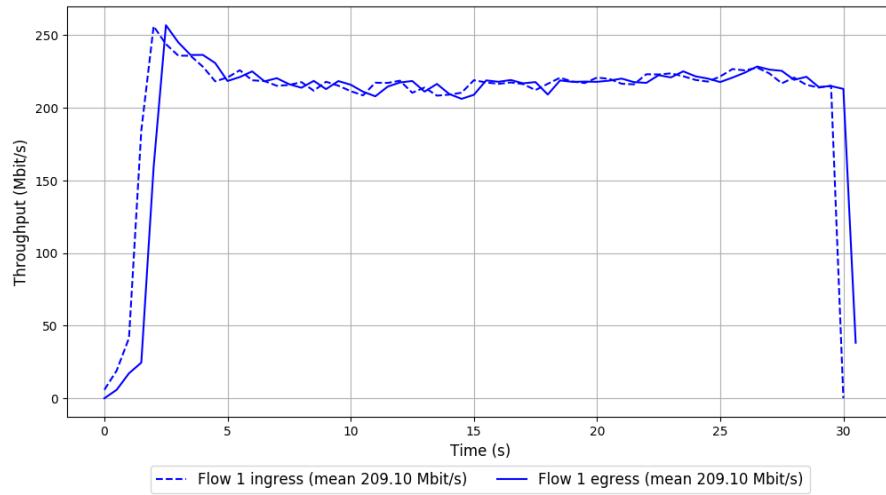


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-02-19 19:23:29
End at: 2019-02-19 19:23:59
Local clock offset: 24.066 ms
Remote clock offset: 23.579 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.10 Mbit/s
95th percentile per-packet one-way delay: 86.611 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.10 Mbit/s
95th percentile per-packet one-way delay: 86.611 ms
Loss rate: 0.00%
```

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

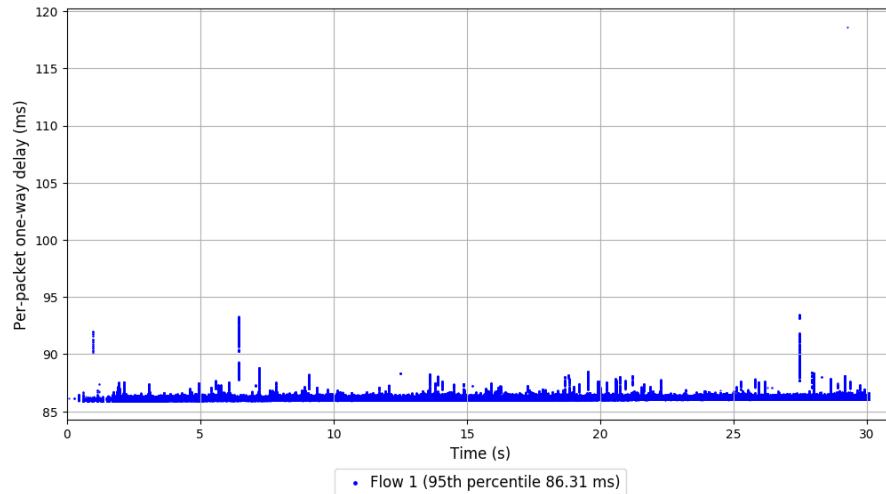
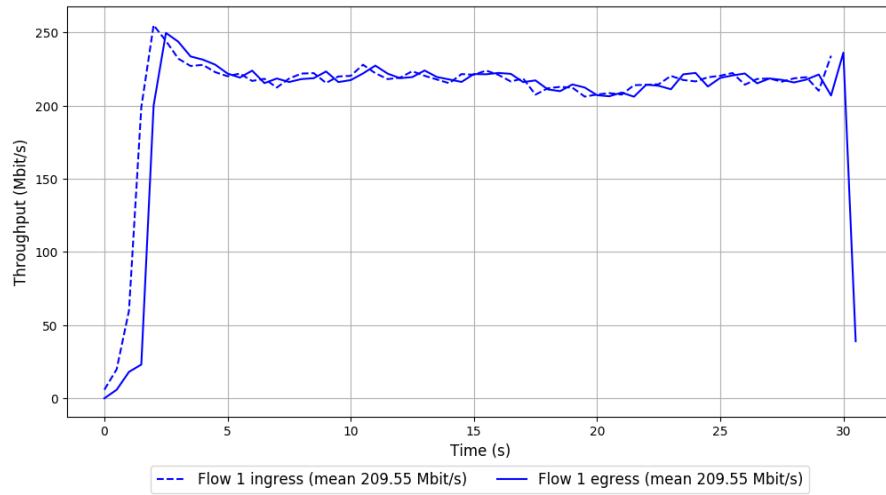


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-02-19 20:00:16
End at: 2019-02-19 20:00:46
Local clock offset: 14.716 ms
Remote clock offset: 8.69 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.55 Mbit/s
95th percentile per-packet one-way delay: 86.315 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.55 Mbit/s
95th percentile per-packet one-way delay: 86.315 ms
Loss rate: 0.00%
```

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

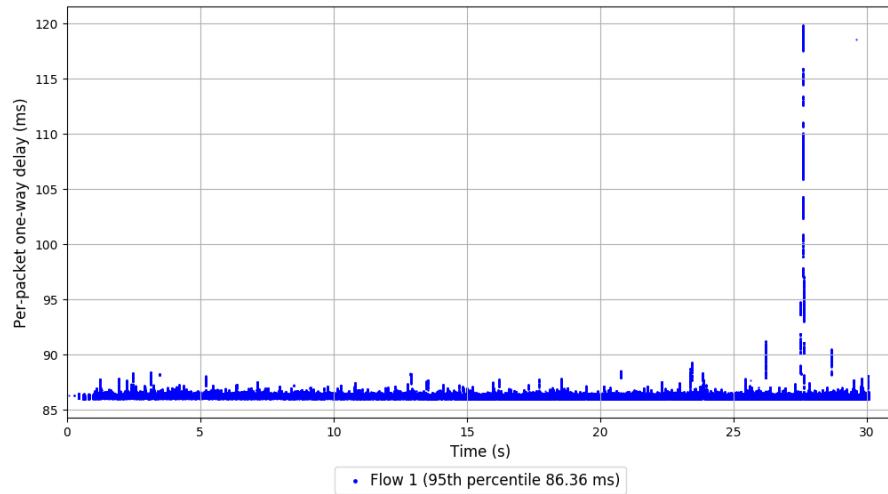
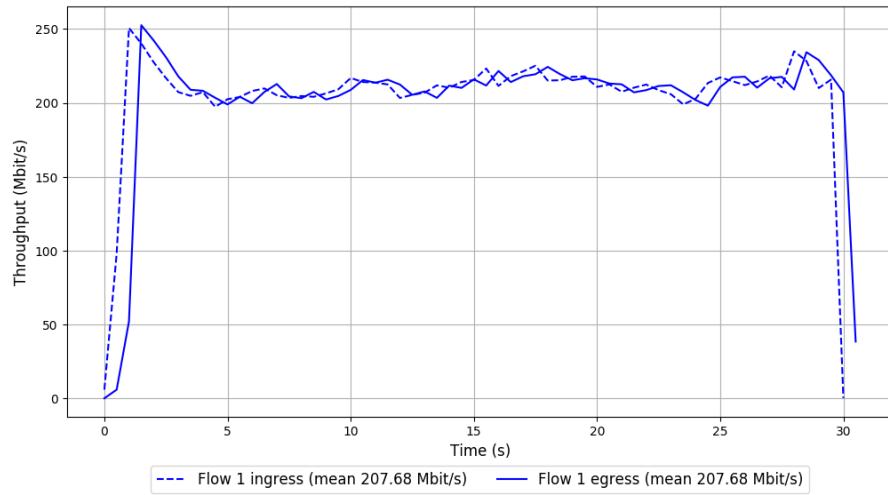


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-02-19 20:34:38
End at: 2019-02-19 20:35:08
Local clock offset: 3.798 ms
Remote clock offset: 3.333 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.68 Mbit/s
95th percentile per-packet one-way delay: 86.357 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 207.68 Mbit/s
95th percentile per-packet one-way delay: 86.357 ms
Loss rate: 0.00%
```

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

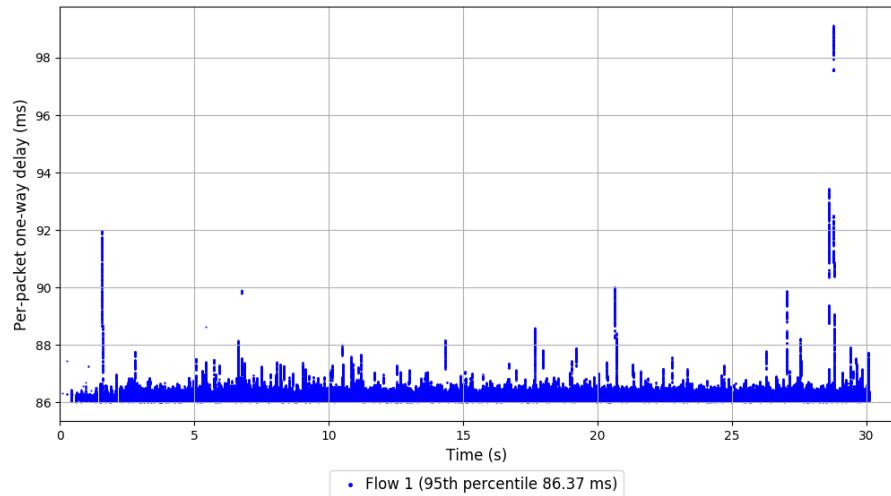
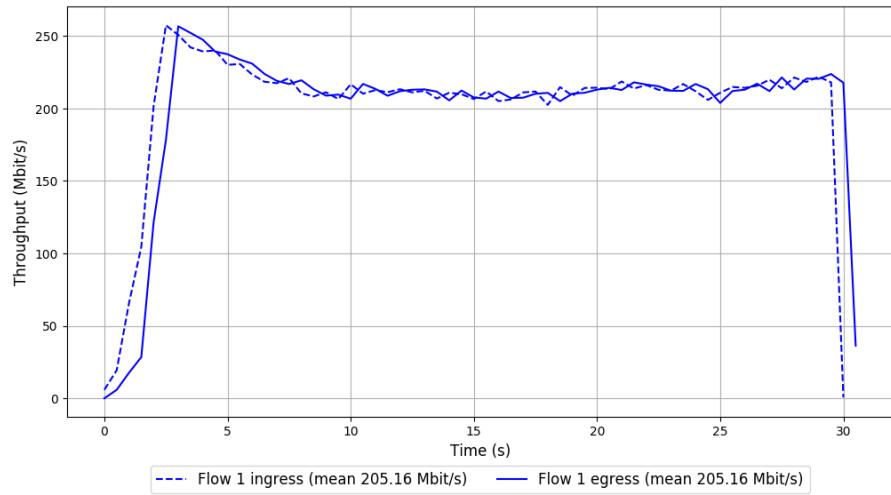


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-02-19 21:11:24
End at: 2019-02-19 21:11:54
Local clock offset: 1.514 ms
Remote clock offset: 1.592 ms

# Below is generated by plot.py at 2019-02-19 23:27:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.16 Mbit/s
95th percentile per-packet one-way delay: 86.374 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.16 Mbit/s
95th percentile per-packet one-way delay: 86.374 ms
Loss rate: 0.00%
```

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

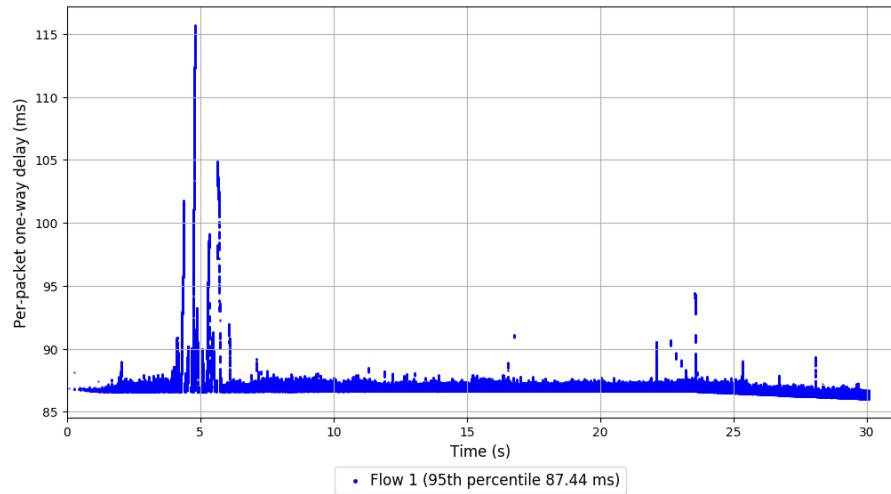
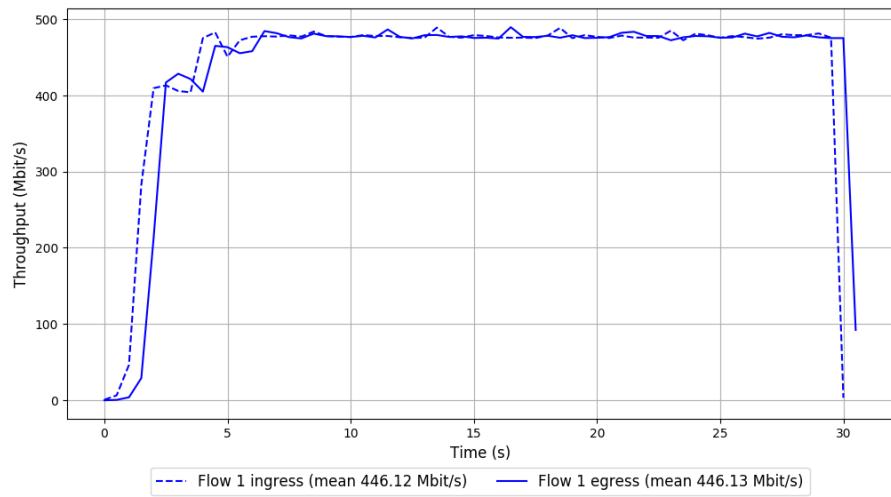


Run 1: Statistics of TCP Vegas

```
Start at: 2019-02-19 18:37:22
End at: 2019-02-19 18:37:52
Local clock offset: 9.067 ms
Remote clock offset: 7.753 ms

# Below is generated by plot.py at 2019-02-19 23:29:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 446.13 Mbit/s
95th percentile per-packet one-way delay: 87.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 446.13 Mbit/s
95th percentile per-packet one-way delay: 87.435 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

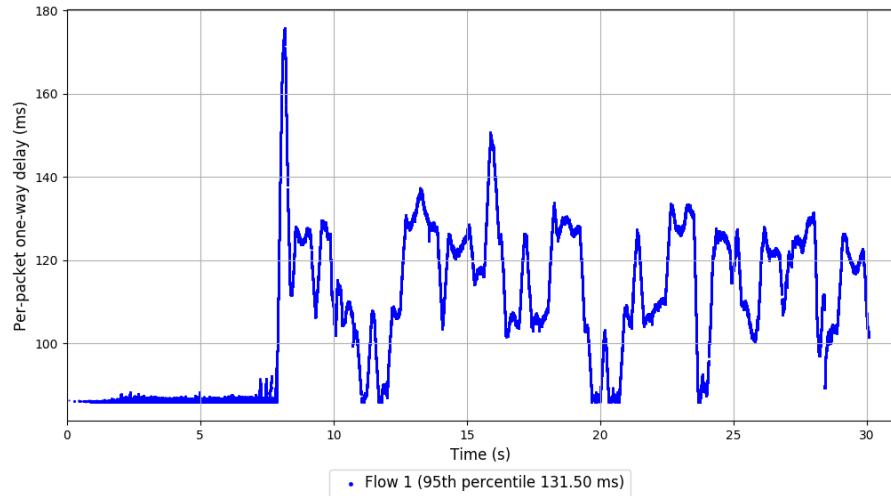
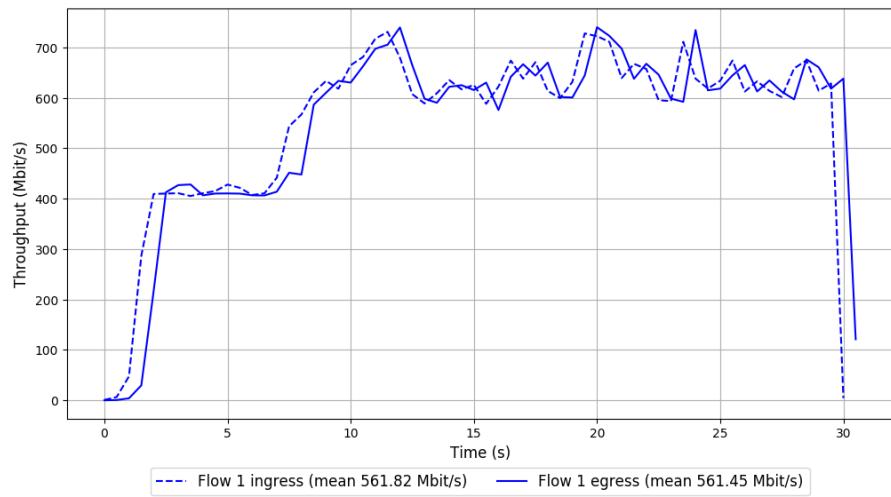


Run 2: Statistics of TCP Vegas

```
Start at: 2019-02-19 19:14:08
End at: 2019-02-19 19:14:38
Local clock offset: 18.736 ms
Remote clock offset: 18.692 ms

# Below is generated by plot.py at 2019-02-19 23:37:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 561.45 Mbit/s
95th percentile per-packet one-way delay: 131.502 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 561.45 Mbit/s
95th percentile per-packet one-way delay: 131.502 ms
Loss rate: 0.06%
```

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

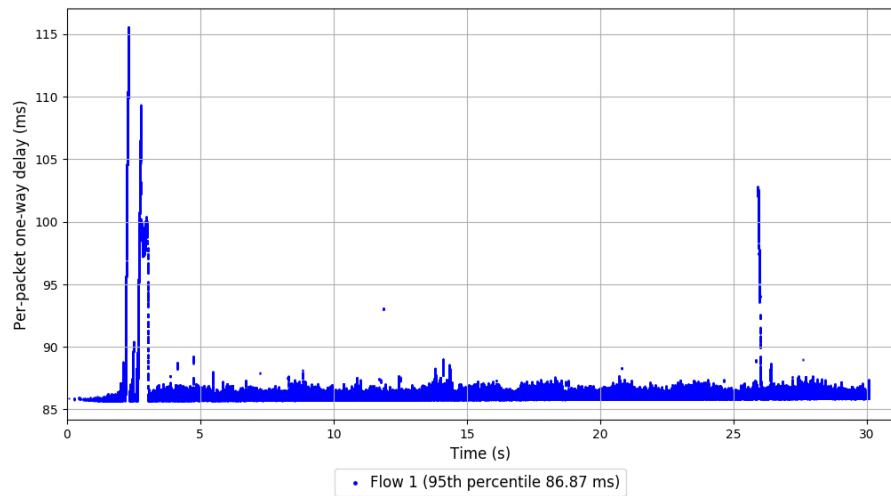
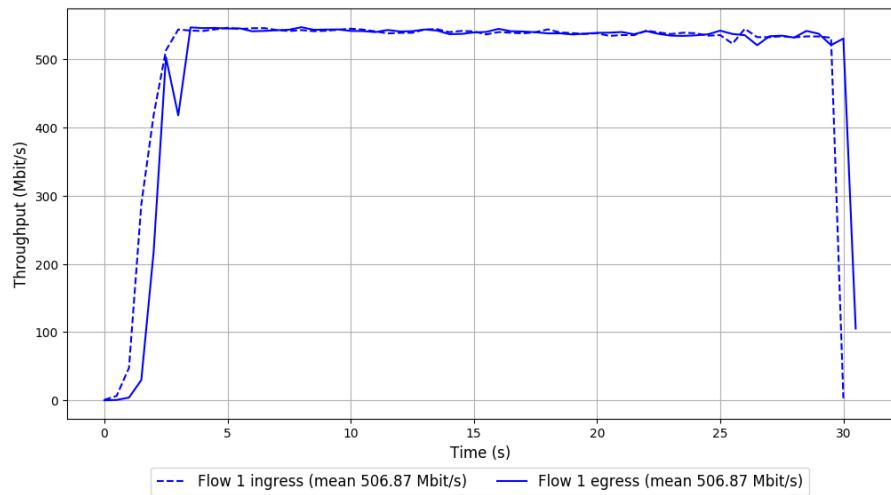


Run 3: Statistics of TCP Vegas

```
Start at: 2019-02-19 19:51:01
End at: 2019-02-19 19:51:31
Local clock offset: 15.244 ms
Remote clock offset: 12.06 ms

# Below is generated by plot.py at 2019-02-19 23:37:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 506.87 Mbit/s
95th percentile per-packet one-way delay: 86.867 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 506.87 Mbit/s
95th percentile per-packet one-way delay: 86.867 ms
Loss rate: 0.00%
```

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

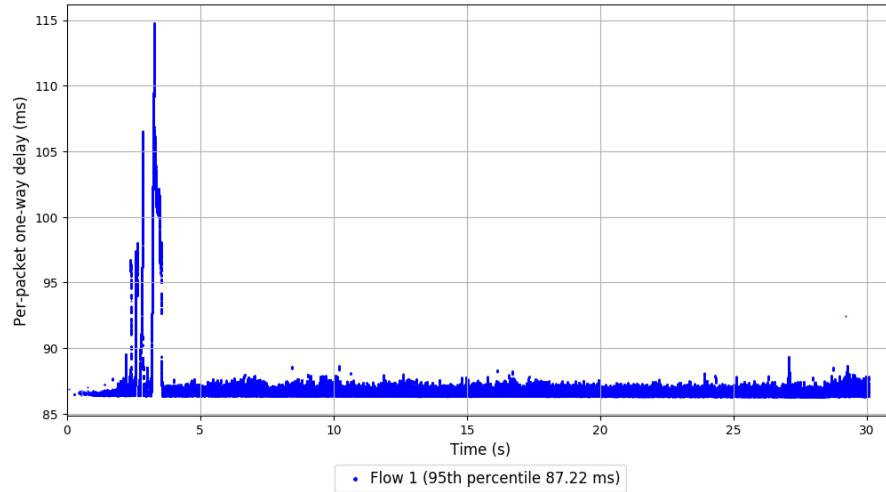
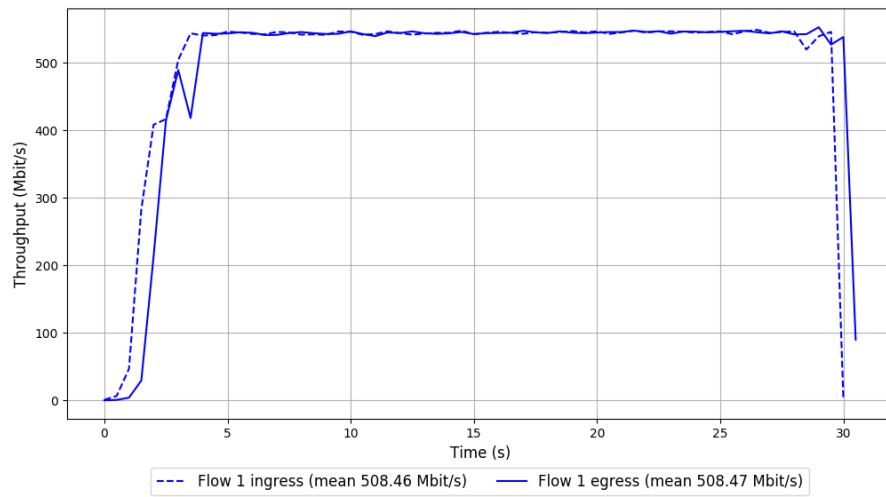


Run 4: Statistics of TCP Vegas

```
Start at: 2019-02-19 20:26:10
End at: 2019-02-19 20:26:40
Local clock offset: 4.966 ms
Remote clock offset: 3.574 ms

# Below is generated by plot.py at 2019-02-19 23:37:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 508.47 Mbit/s
95th percentile per-packet one-way delay: 87.216 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 508.47 Mbit/s
95th percentile per-packet one-way delay: 87.216 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

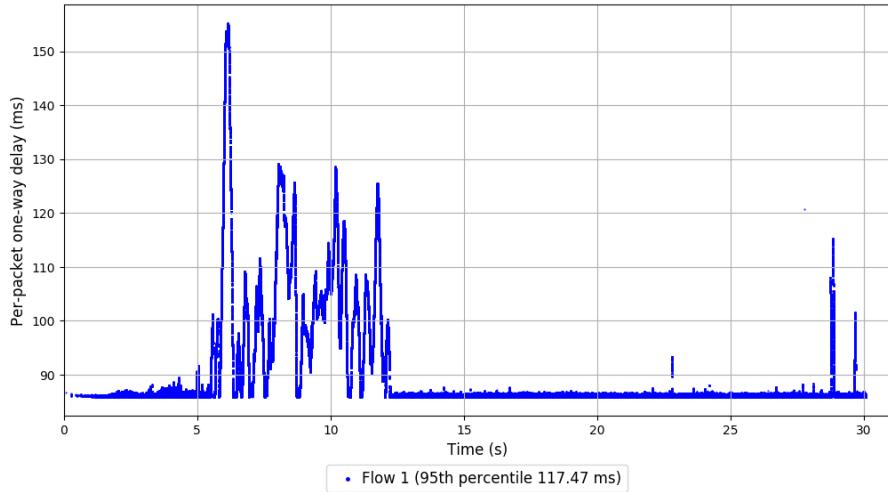
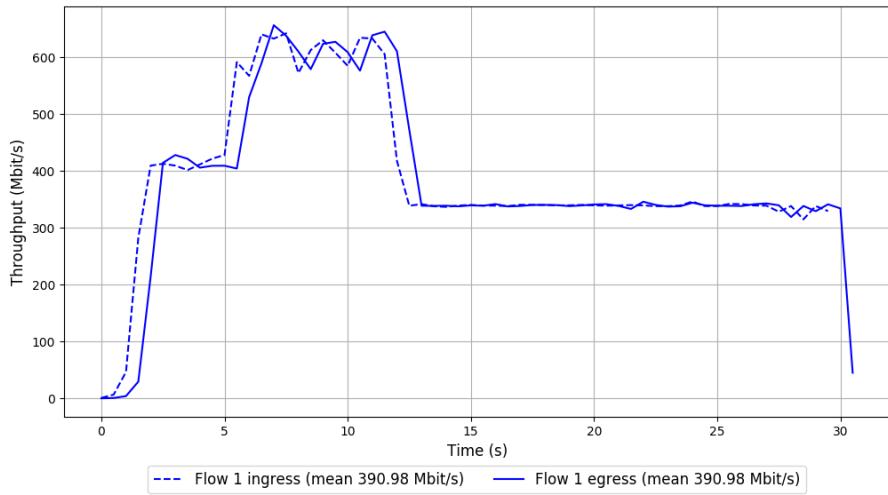


Run 5: Statistics of TCP Vegas

```
Start at: 2019-02-19 21:02:29
End at: 2019-02-19 21:02:59
Local clock offset: 1.572 ms
Remote clock offset: 1.508 ms

# Below is generated by plot.py at 2019-02-19 23:37:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.98 Mbit/s
95th percentile per-packet one-way delay: 117.471 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 390.98 Mbit/s
95th percentile per-packet one-way delay: 117.471 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

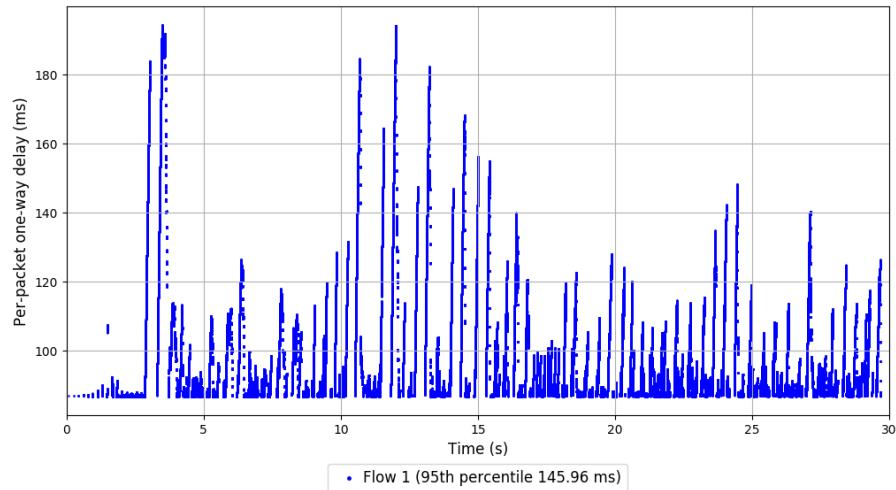
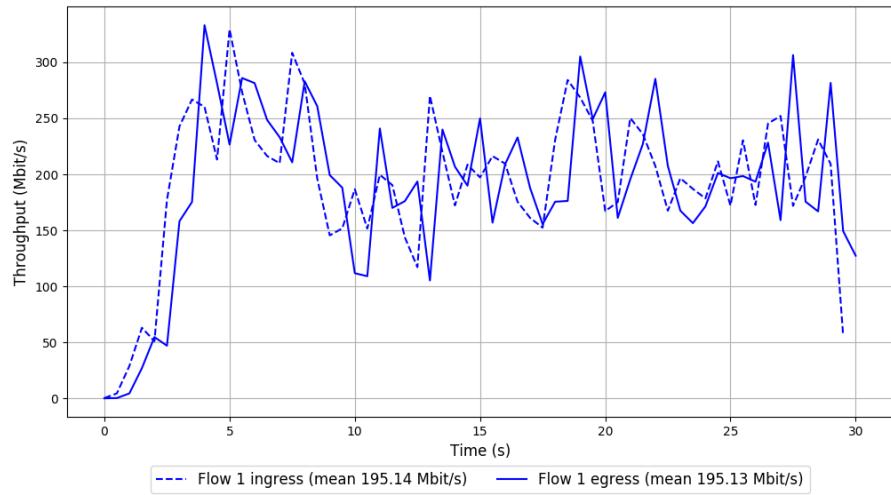


Run 1: Statistics of Verus

```
Start at: 2019-02-19 18:53:35
End at: 2019-02-19 18:54:05
Local clock offset: 12.901 ms
Remote clock offset: 13.076 ms

# Below is generated by plot.py at 2019-02-19 23:37:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.13 Mbit/s
95th percentile per-packet one-way delay: 145.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 195.13 Mbit/s
95th percentile per-packet one-way delay: 145.958 ms
Loss rate: 0.00%
```

Run 1: Report of Verus — Data Link

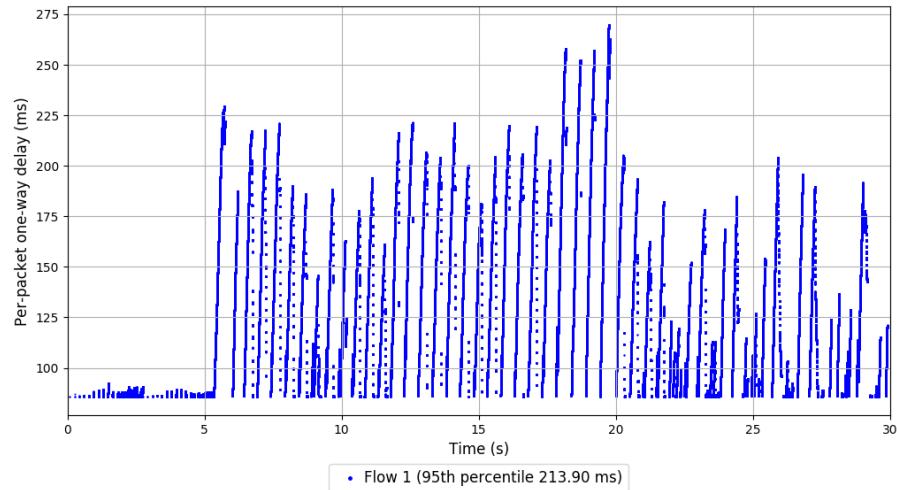
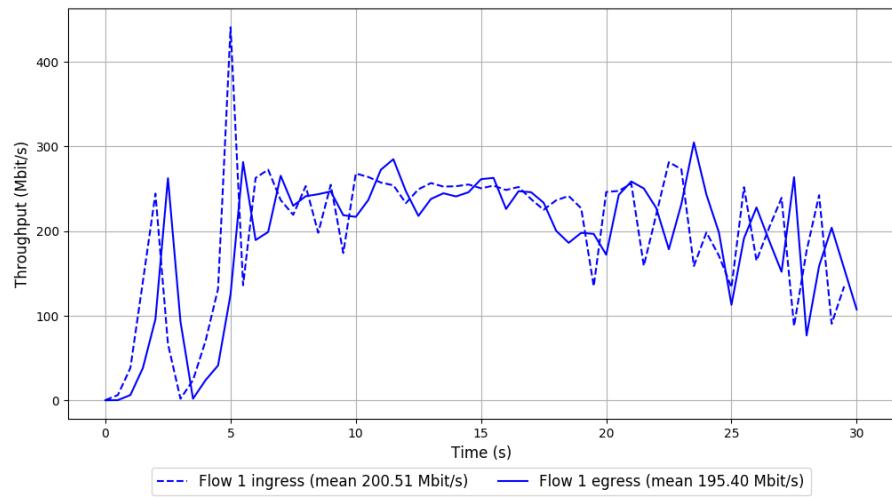


Run 2: Statistics of Verus

```
Start at: 2019-02-19 19:30:39
End at: 2019-02-19 19:31:09
Local clock offset: 30.625 ms
Remote clock offset: 29.857 ms

# Below is generated by plot.py at 2019-02-19 23:37:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.40 Mbit/s
95th percentile per-packet one-way delay: 213.898 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 195.40 Mbit/s
95th percentile per-packet one-way delay: 213.898 ms
Loss rate: 2.55%
```

## Run 2: Report of Verus — Data Link

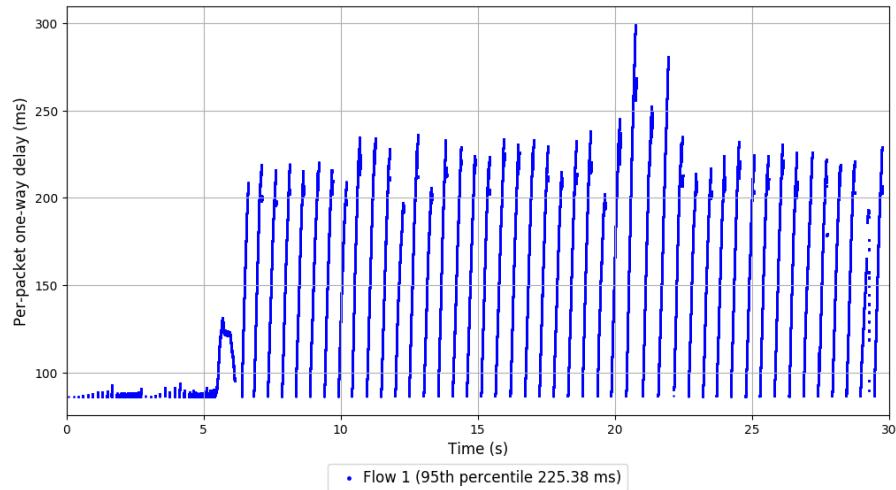
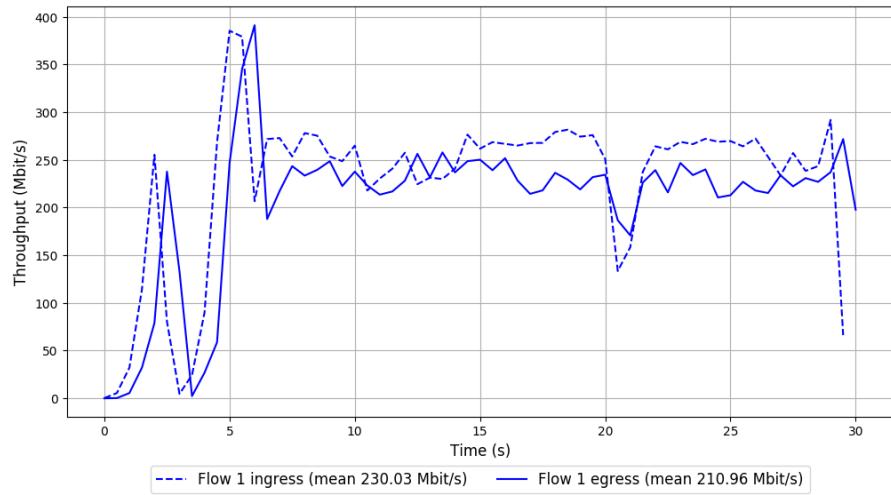


Run 3: Statistics of Verus

```
Start at: 2019-02-19 20:06:56
End at: 2019-02-19 20:07:26
Local clock offset: 16.822 ms
Remote clock offset: 8.845 ms

# Below is generated by plot.py at 2019-02-19 23:37:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.96 Mbit/s
95th percentile per-packet one-way delay: 225.378 ms
Loss rate: 7.92%
-- Flow 1:
Average throughput: 210.96 Mbit/s
95th percentile per-packet one-way delay: 225.378 ms
Loss rate: 7.92%
```

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

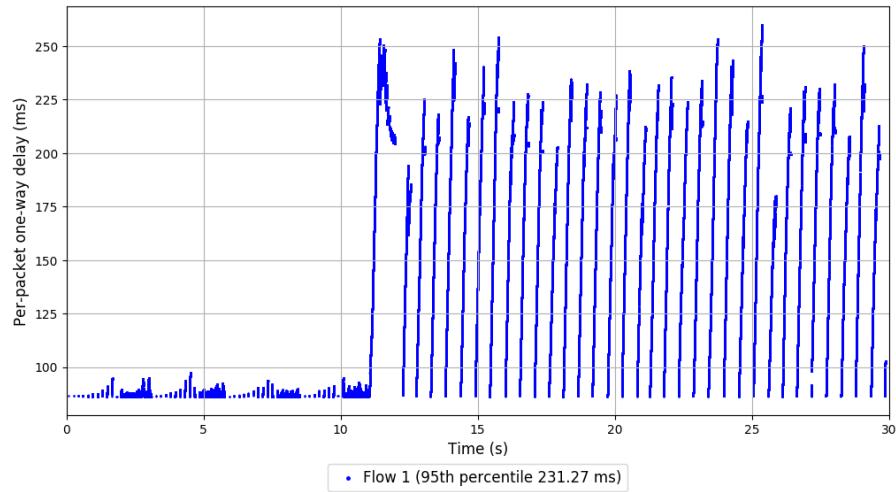
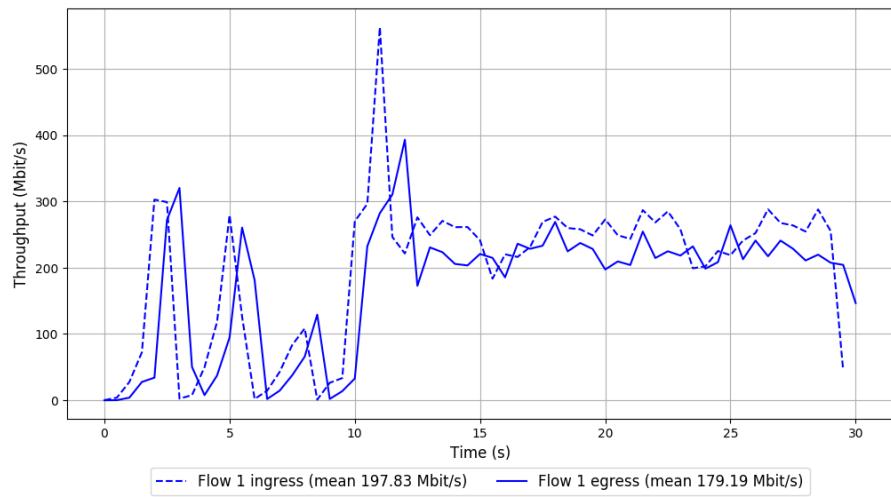


Run 4: Statistics of Verus

```
Start at: 2019-02-19 20:41:49
End at: 2019-02-19 20:42:19
Local clock offset: 4.055 ms
Remote clock offset: 3.758 ms

# Below is generated by plot.py at 2019-02-19 23:37:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.19 Mbit/s
95th percentile per-packet one-way delay: 231.271 ms
Loss rate: 9.42%
-- Flow 1:
Average throughput: 179.19 Mbit/s
95th percentile per-packet one-way delay: 231.271 ms
Loss rate: 9.42%
```

## Run 4: Report of Verus — Data Link

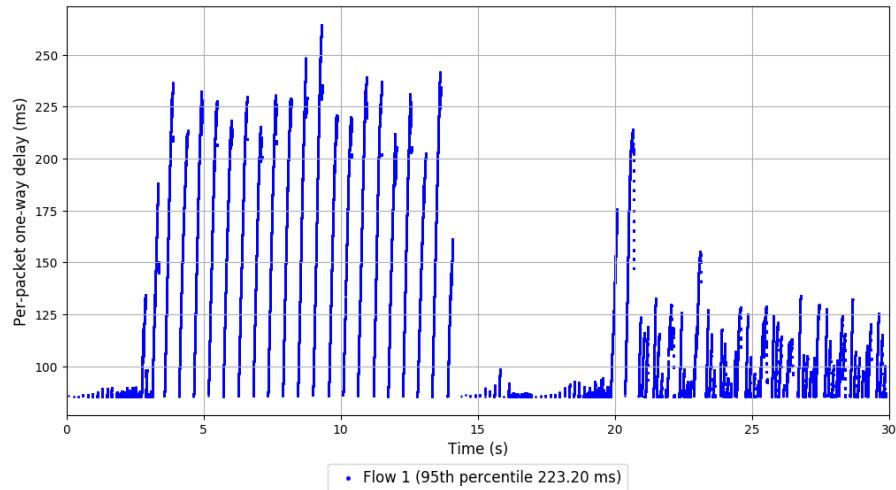
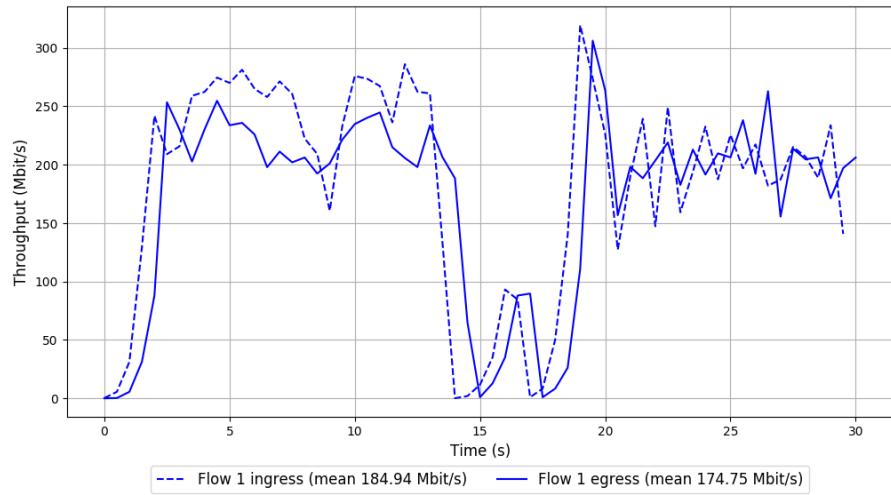


Run 5: Statistics of Verus

```
Start at: 2019-02-19 21:17:36
End at: 2019-02-19 21:18:07
Local clock offset: 2.354 ms
Remote clock offset: 1.83 ms

# Below is generated by plot.py at 2019-02-19 23:39:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 174.75 Mbit/s
95th percentile per-packet one-way delay: 223.196 ms
Loss rate: 5.51%
-- Flow 1:
Average throughput: 174.75 Mbit/s
95th percentile per-packet one-way delay: 223.196 ms
Loss rate: 5.51%
```

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

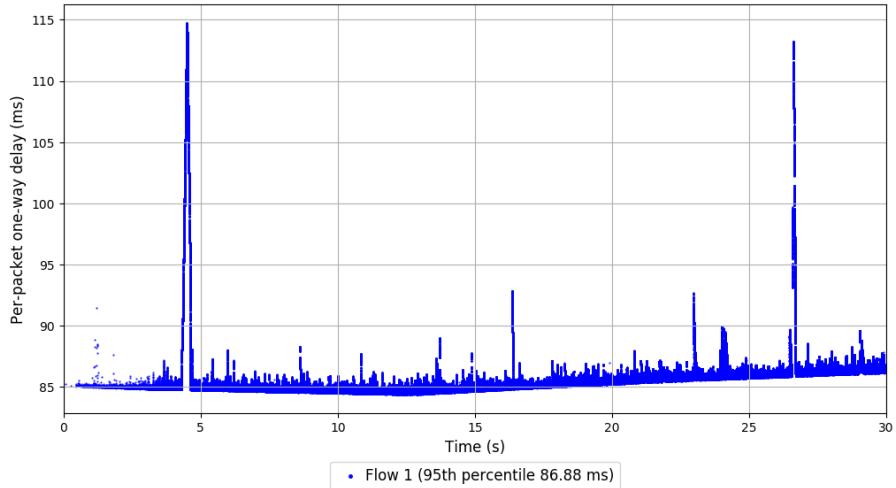
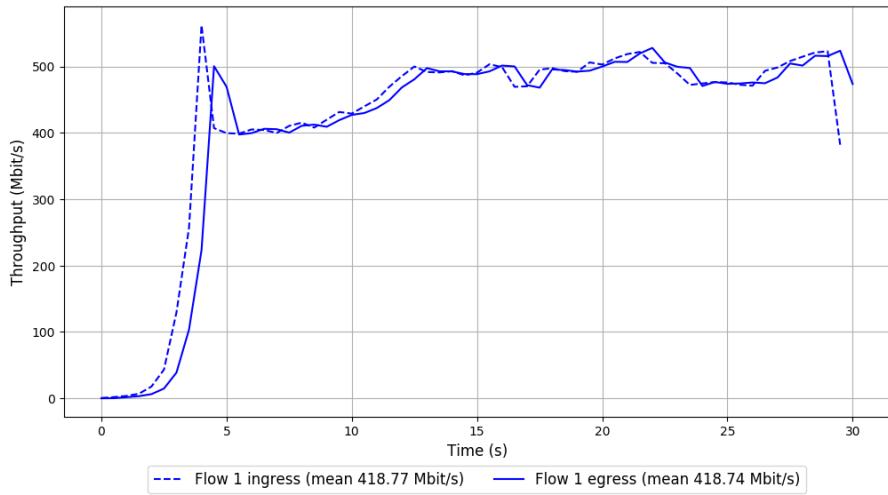


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-02-19 18:32:03
End at: 2019-02-19 18:32:33
Local clock offset: 4.056 ms
Remote clock offset: 3.093 ms

# Below is generated by plot.py at 2019-02-19 23:41:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 418.74 Mbit/s
95th percentile per-packet one-way delay: 86.880 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 418.74 Mbit/s
95th percentile per-packet one-way delay: 86.880 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

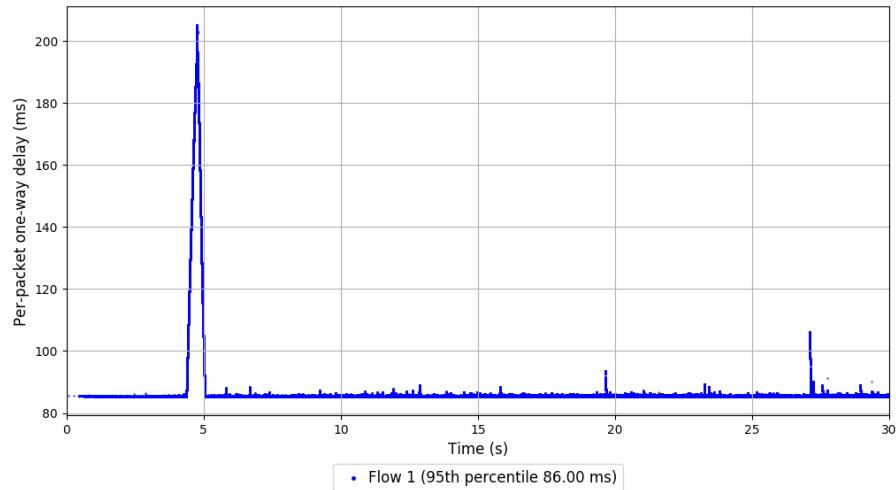
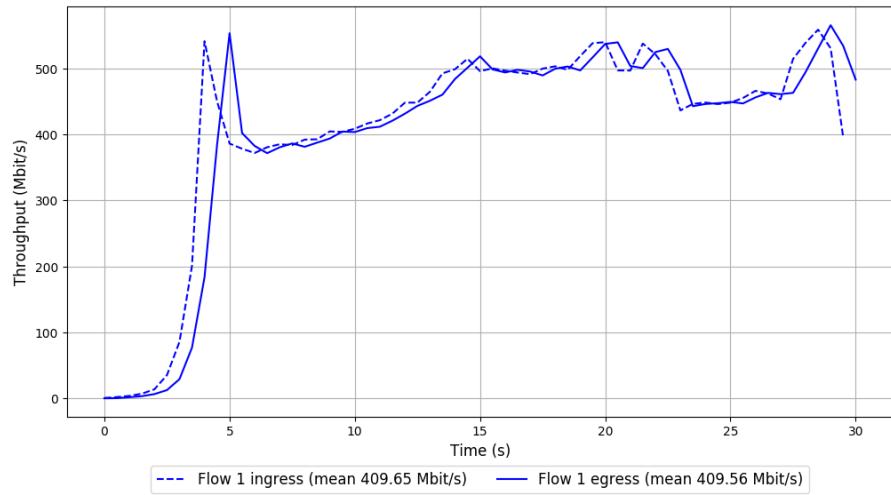


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-02-19 19:09:04
End at: 2019-02-19 19:09:34
Local clock offset: 19.659 ms
Remote clock offset: 19.709 ms

# Below is generated by plot.py at 2019-02-19 23:41:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 409.56 Mbit/s
95th percentile per-packet one-way delay: 85.997 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 409.56 Mbit/s
95th percentile per-packet one-way delay: 85.997 ms
Loss rate: 0.02%
```

Run 2: Report of PCC-Vivace — Data Link

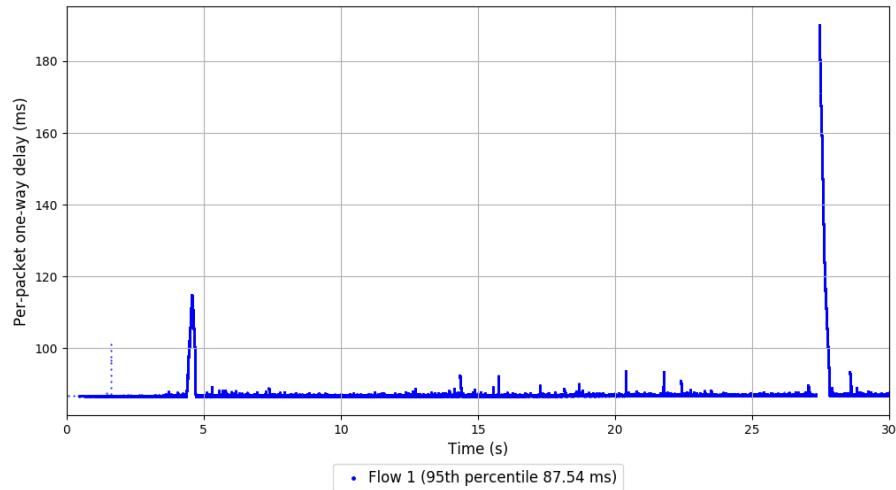
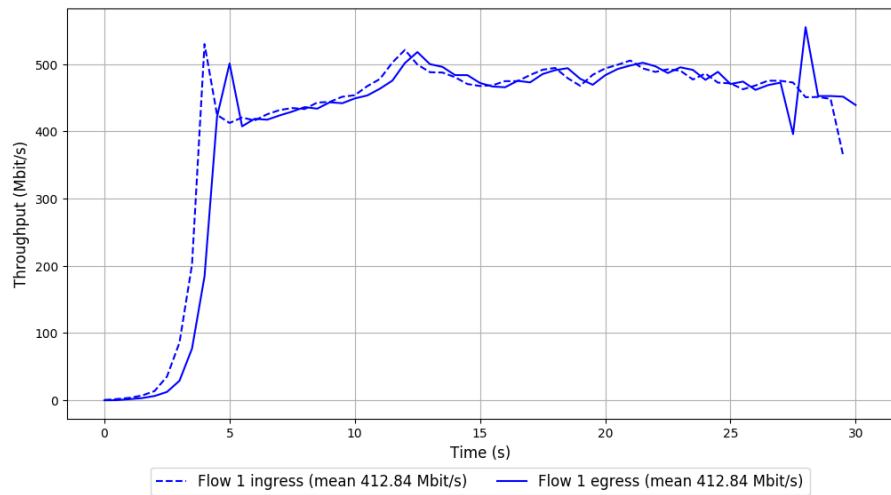


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-02-19 19:46:07
End at: 2019-02-19 19:46:37
Local clock offset: 18.146 ms
Remote clock offset: 17.71 ms

# Below is generated by plot.py at 2019-02-19 23:41:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 412.84 Mbit/s
95th percentile per-packet one-way delay: 87.542 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 412.84 Mbit/s
95th percentile per-packet one-way delay: 87.542 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

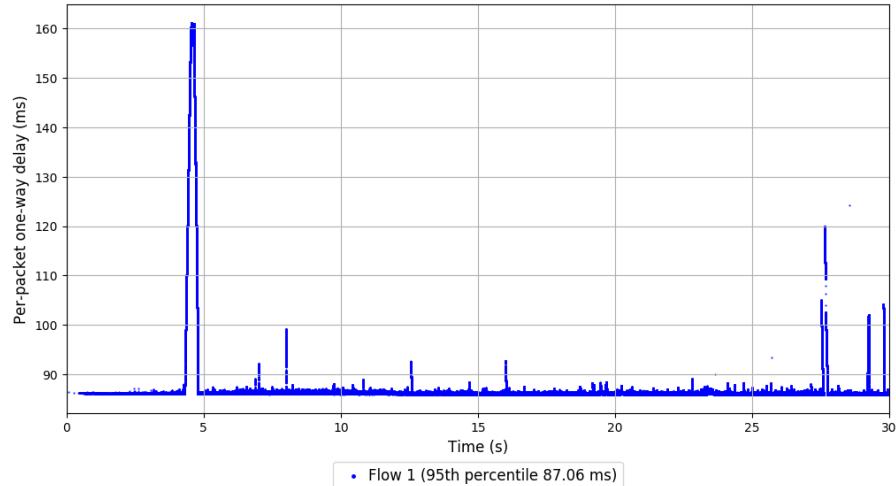
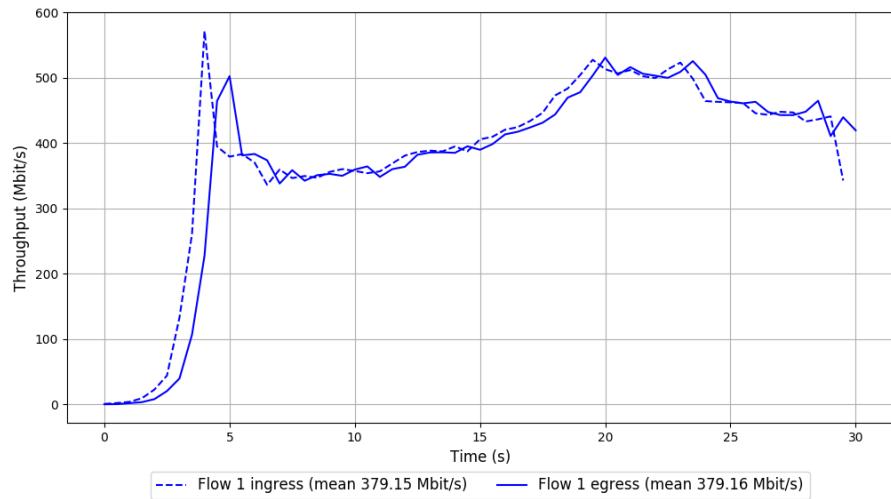


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-02-19 20:21:26
End at: 2019-02-19 20:21:56
Local clock offset: 6.922 ms
Remote clock offset: 4.469 ms

# Below is generated by plot.py at 2019-02-19 23:41:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 379.16 Mbit/s
95th percentile per-packet one-way delay: 87.062 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 379.16 Mbit/s
95th percentile per-packet one-way delay: 87.062 ms
Loss rate: 0.00%
```

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

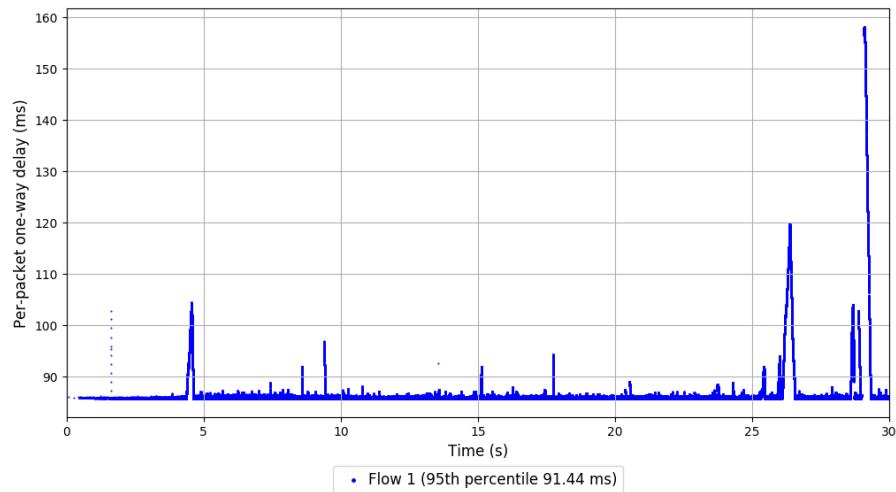
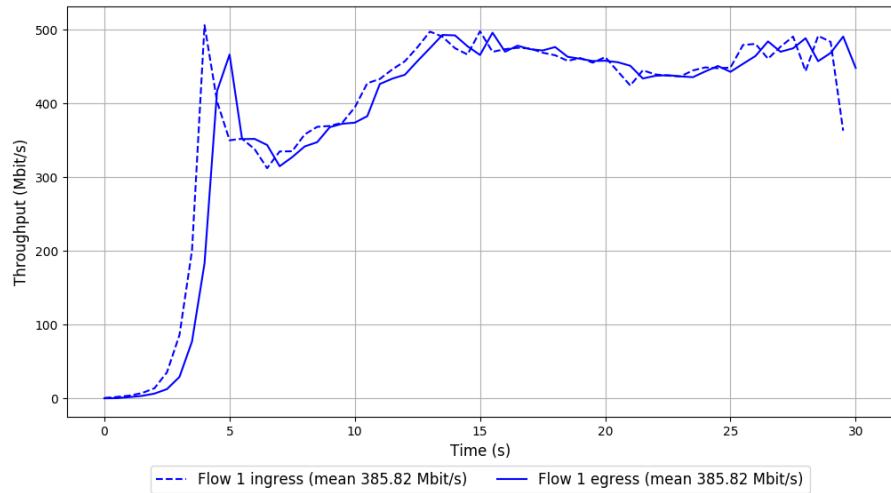


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-02-19 20:57:13
End at: 2019-02-19 20:57:43
Local clock offset: 1.991 ms
Remote clock offset: 1.77 ms

# Below is generated by plot.py at 2019-02-19 23:41:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 385.82 Mbit/s
95th percentile per-packet one-way delay: 91.443 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 385.82 Mbit/s
95th percentile per-packet one-way delay: 91.443 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

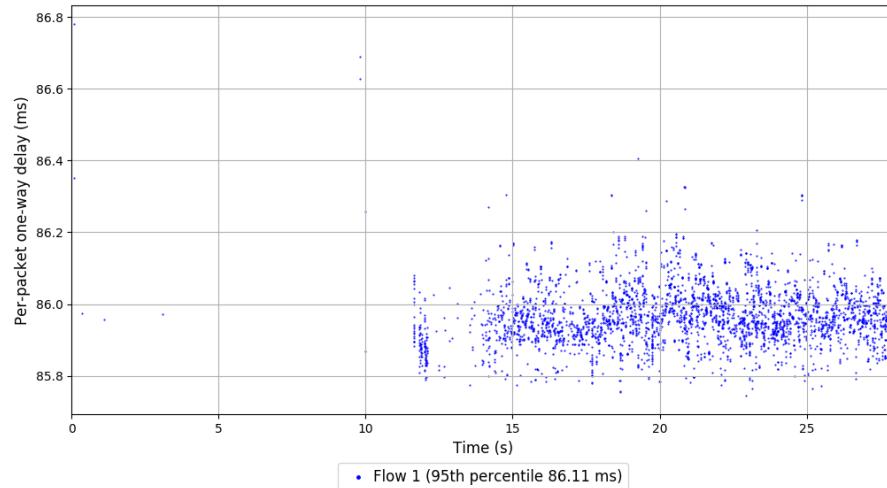
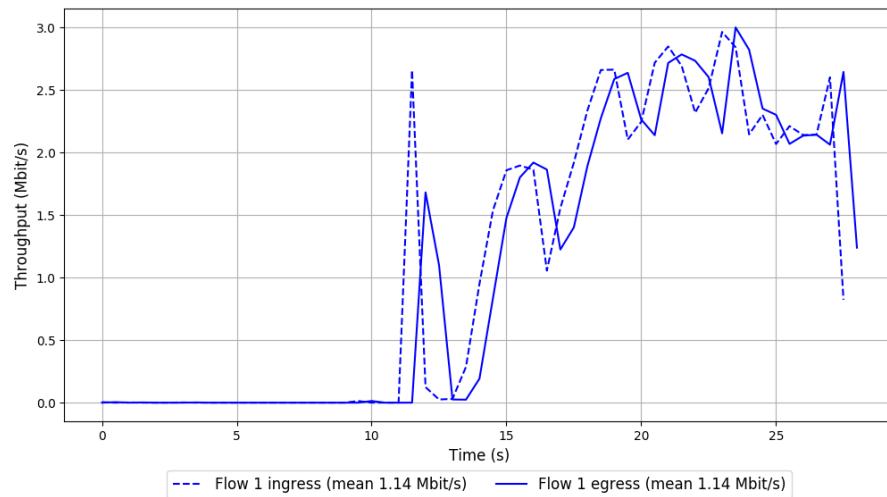


```
Run 1: Statistics of WebRTC media

Start at: 2019-02-19 18:58:12
End at: 2019-02-19 18:58:42
Local clock offset: 18.395 ms
Remote clock offset: 17.294 ms

# Below is generated by plot.py at 2019-02-19 23:41:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 86.108 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 86.108 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

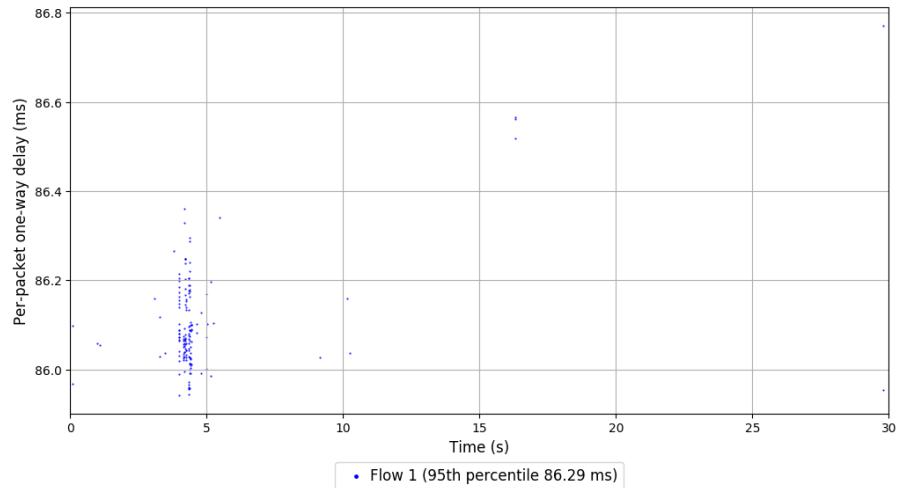
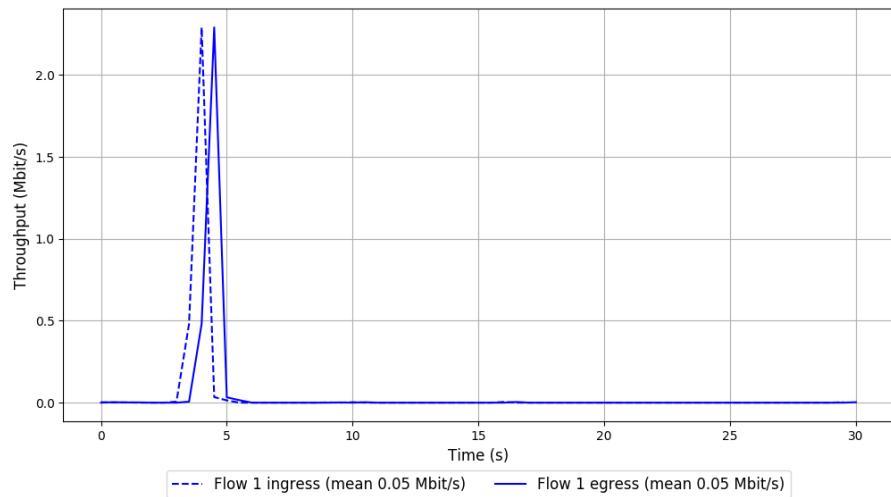


Run 2: Statistics of WebRTC media

```
Start at: 2019-02-19 19:35:36
End at: 2019-02-19 19:36:06
Local clock offset: 35.411 ms
Remote clock offset: 34.69 ms

# Below is generated by plot.py at 2019-02-19 23:41:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.287 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.287 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

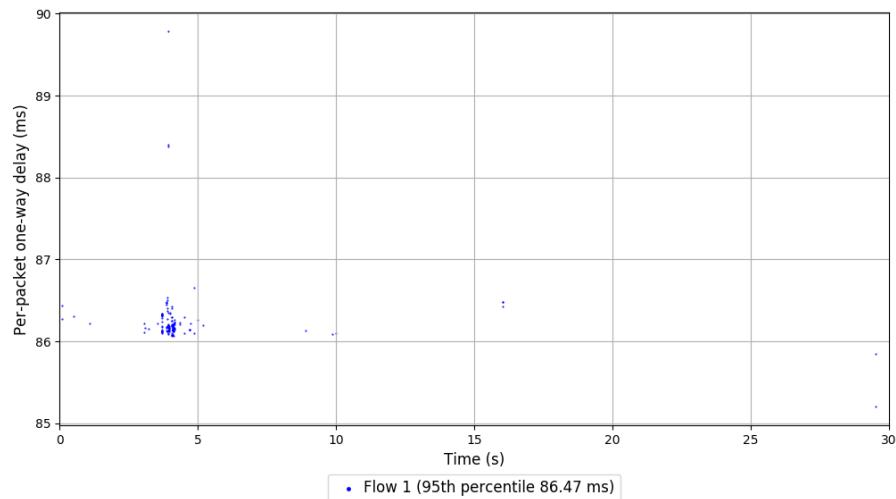
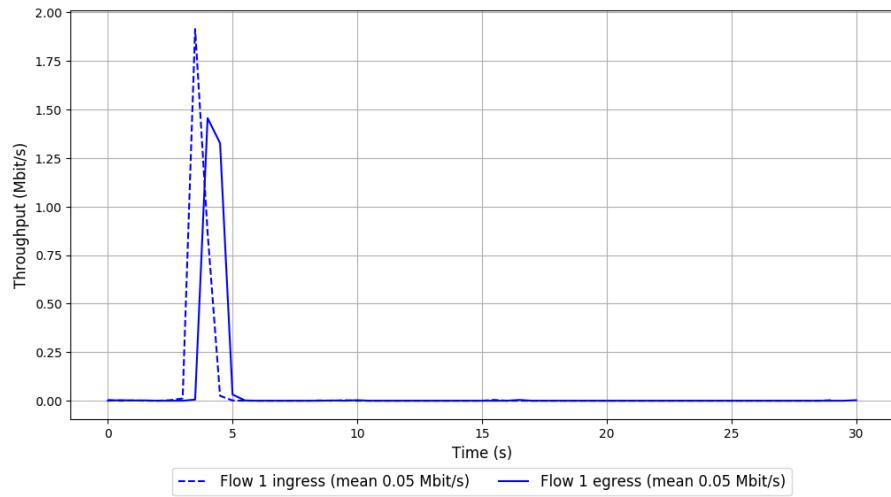


Run 3: Statistics of WebRTC media

```
Start at: 2019-02-19 20:11:35
End at: 2019-02-19 20:12:05
Local clock offset: 19.043 ms
Remote clock offset: 9.522 ms

# Below is generated by plot.py at 2019-02-19 23:41:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.475 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.475 ms
Loss rate: 0.00%
```

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

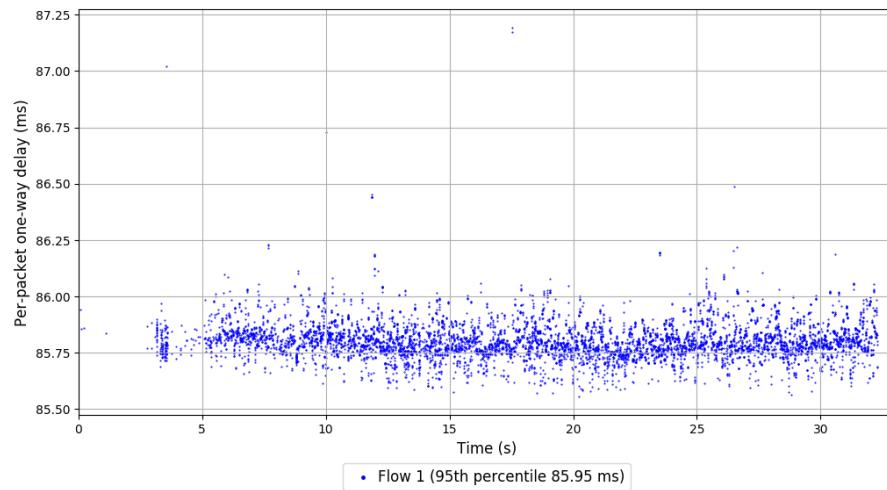
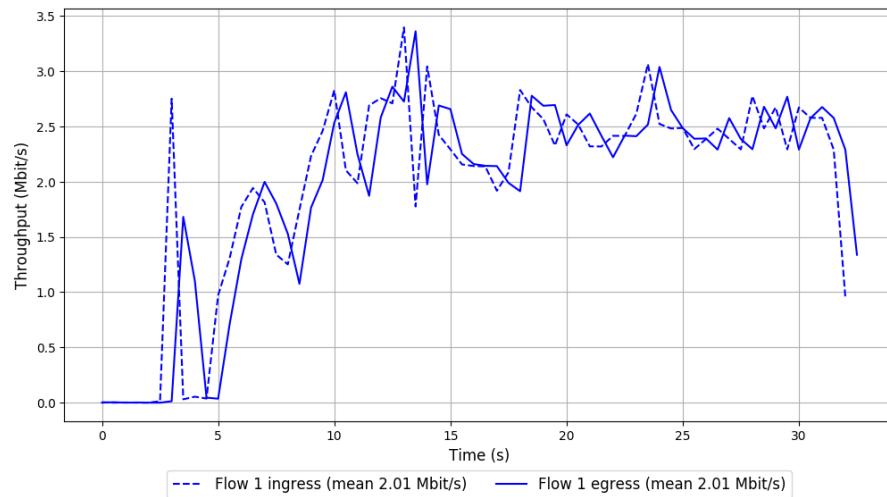


Run 4: Statistics of WebRTC media

```
Start at: 2019-02-19 20:46:29
End at: 2019-02-19 20:46:59
Local clock offset: 4.138 ms
Remote clock offset: 4.181 ms

# Below is generated by plot.py at 2019-02-19 23:41:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 85.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 85.947 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-02-19 21:22:01
End at: 2019-02-19 21:22:31
Local clock offset: 1.938 ms
Remote clock offset: 1.764 ms

# Below is generated by plot.py at 2019-02-19 23:41:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.931 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.931 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

