

## Pantheon Report

Generated at 2019-01-22 08:19:01 (UTC).  
Data path: GCE London 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.

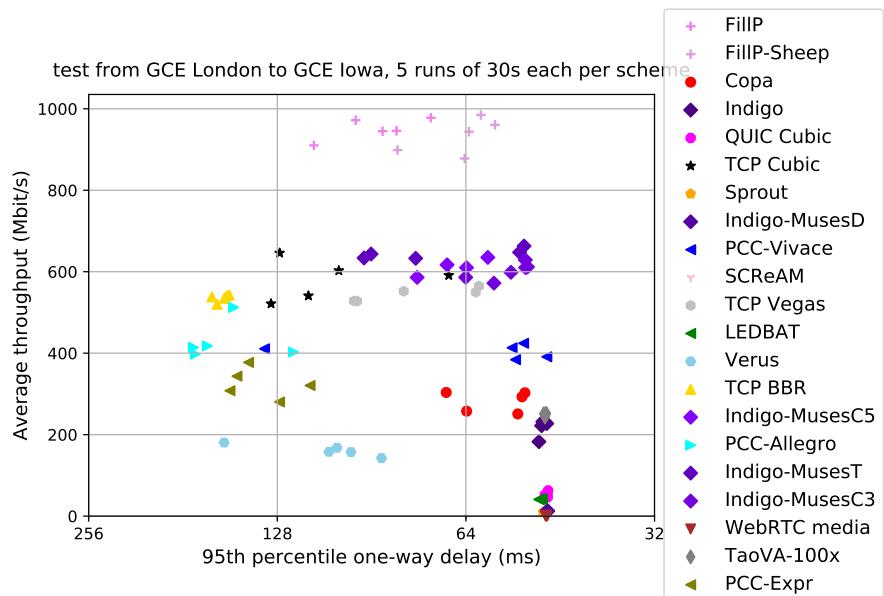
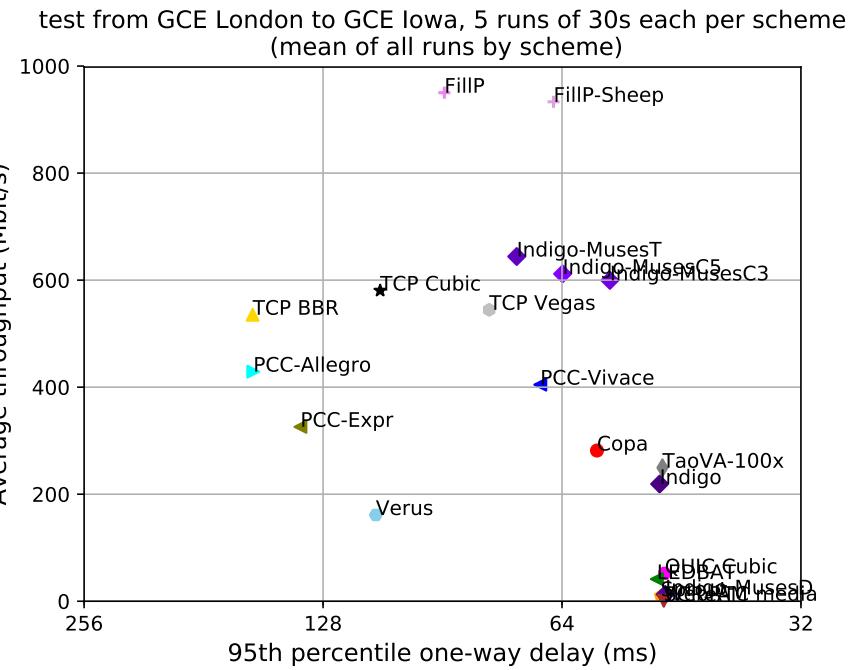
System info:

```
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 @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 1ddcff131048c6962f123bcd22b4d166a422adde
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851



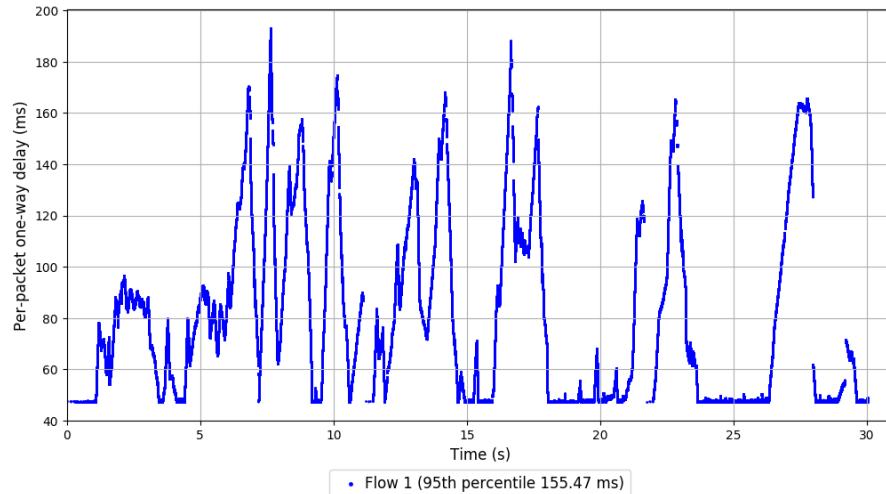
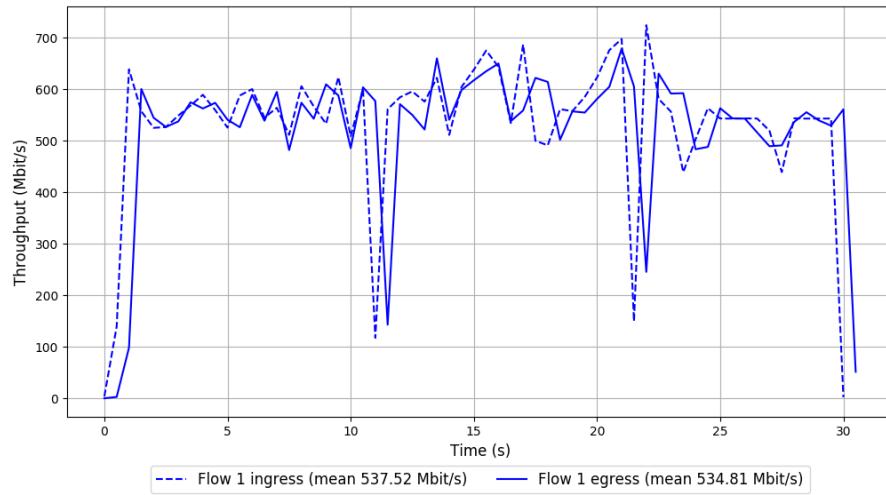
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	535.29	156.99	0.64
Copa	5	281.58	57.83	0.00
TCP Cubic	5	580.46	108.46	0.11
FillP	5	950.20	90.03	0.52
FillP-Sheep	5	933.19	65.59	0.24
Indigo	5	219.04	48.21	0.05
Indigo-MusesC3	5	599.50	55.70	0.01
Indigo-MusesC5	5	611.63	63.89	0.01
Indigo-MusesD	4	12.73	47.43	0.00
Indigo-MusesT	5	644.12	72.99	0.03
LEDBAT	5	41.41	48.61	0.01
PCC-Allegro	5	428.93	156.71	2.71
PCC-Expr	5	325.87	136.70	1.39
QUIC Cubic	5	52.14	47.51	0.00
SCReAM	5	0.22	47.64	0.00
Sprout	5	9.60	48.06	0.00
TaoVA-100x	5	249.44	47.83	0.03
TCP Vegas	5	544.47	79.04	0.03
Verus	5	161.16	109.84	0.29
PCC-Vivace	5	404.72	68.17	0.06
WebRTC media	5	0.90	47.64	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-22 03:43:32
End at: 2019-01-22 03:44:02
Local clock offset: 0.085 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-01-22 06:33:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 534.81 Mbit/s
95th percentile per-packet one-way delay: 155.473 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 534.81 Mbit/s
95th percentile per-packet one-way delay: 155.473 ms
Loss rate: 0.50%
```

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

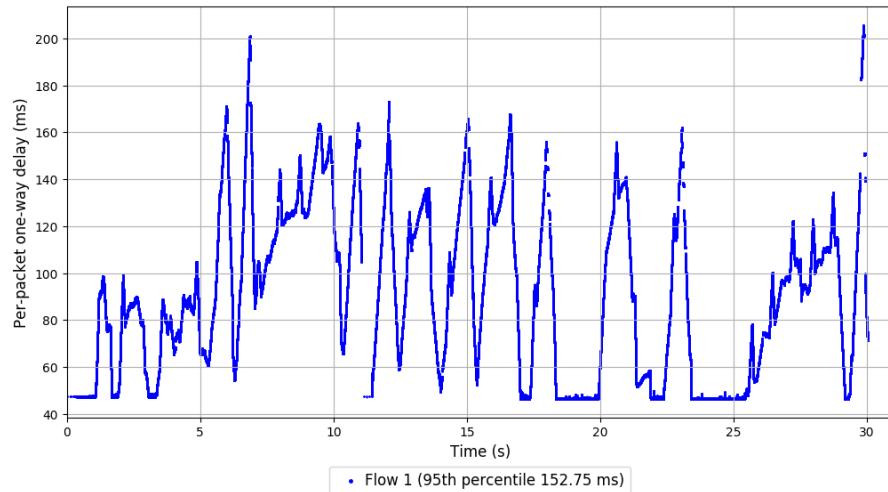
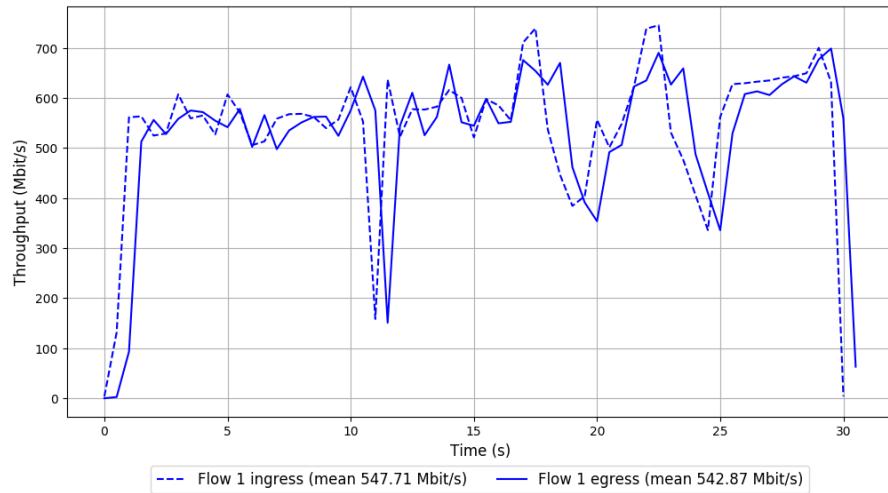


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-22 04:15:39
End at: 2019-01-22 04:16:09
Local clock offset: 0.057 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-01-22 06:33:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 542.87 Mbit/s
95th percentile per-packet one-way delay: 152.747 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 542.87 Mbit/s
95th percentile per-packet one-way delay: 152.747 ms
Loss rate: 0.88%
```

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

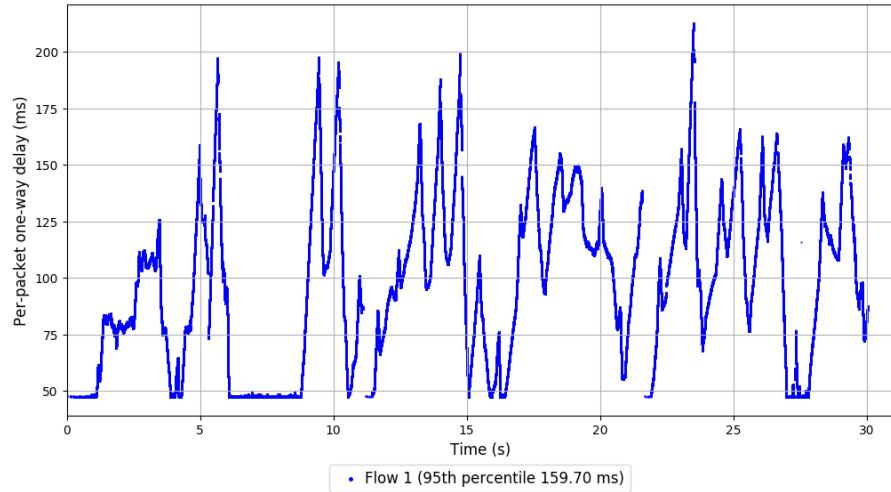
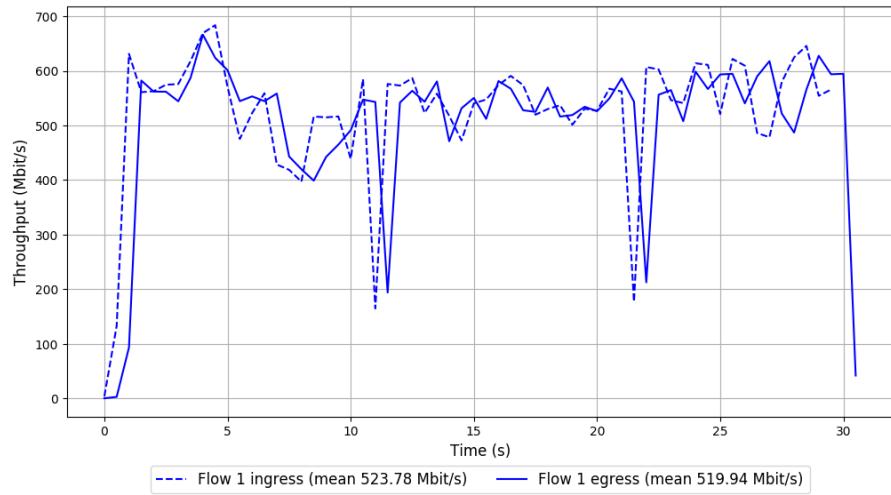


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-22 04:46:56
End at: 2019-01-22 04:47:26
Local clock offset: -0.023 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-01-22 06:33:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 519.94 Mbit/s
95th percentile per-packet one-way delay: 159.703 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 519.94 Mbit/s
95th percentile per-packet one-way delay: 159.703 ms
Loss rate: 0.73%
```

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

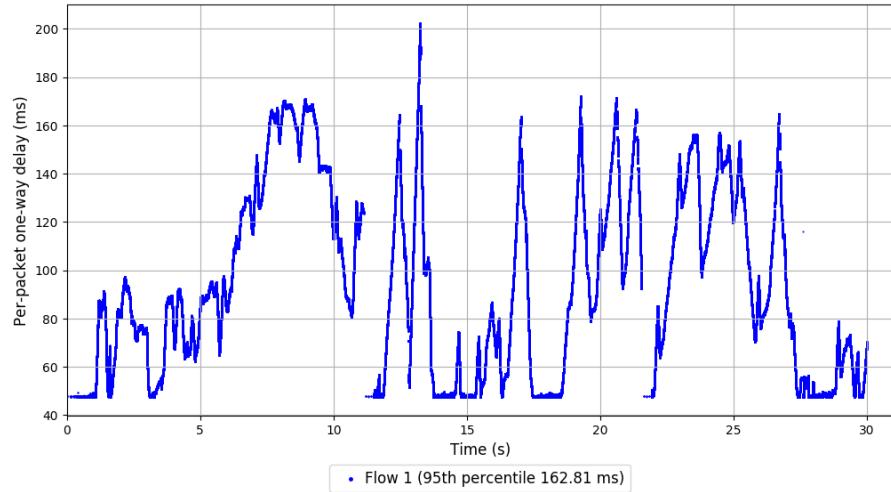
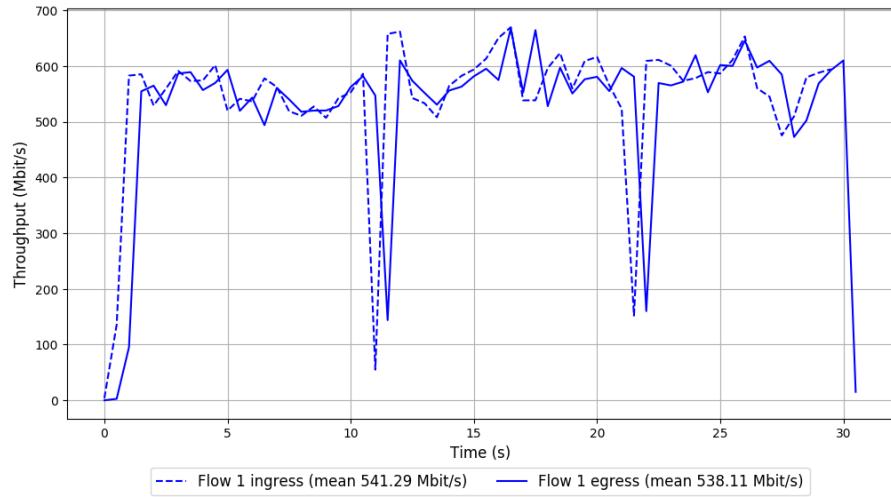


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-22 05:18:29
End at: 2019-01-22 05:18:59
Local clock offset: 0.028 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-01-22 06:33:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 538.11 Mbit/s
95th percentile per-packet one-way delay: 162.807 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 538.11 Mbit/s
95th percentile per-packet one-way delay: 162.807 ms
Loss rate: 0.59%
```

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

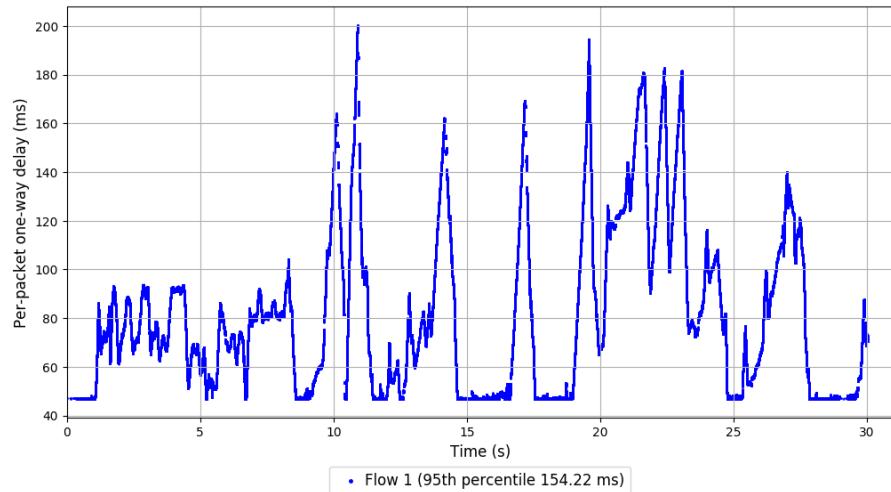
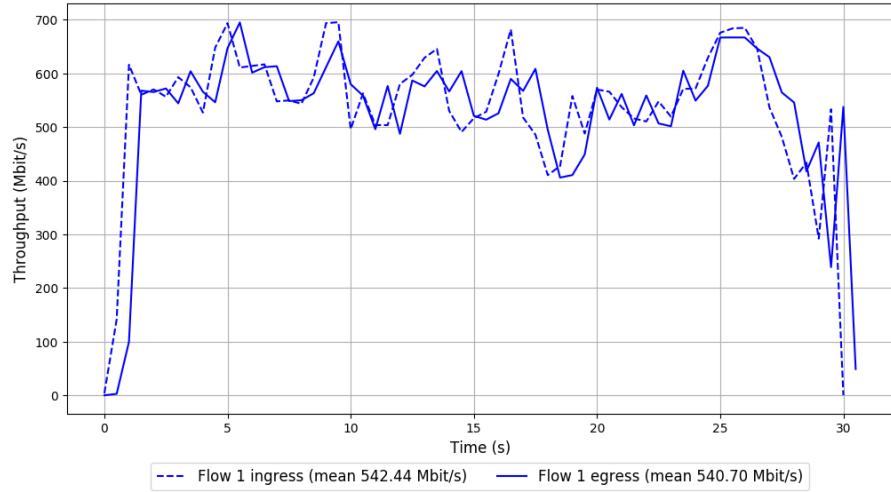


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-22 05:49:02
End at: 2019-01-22 05:49:32
Local clock offset: 0.304 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-01-22 06:33:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 540.70 Mbit/s
95th percentile per-packet one-way delay: 154.216 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 540.70 Mbit/s
95th percentile per-packet one-way delay: 154.216 ms
Loss rate: 0.51%
```

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

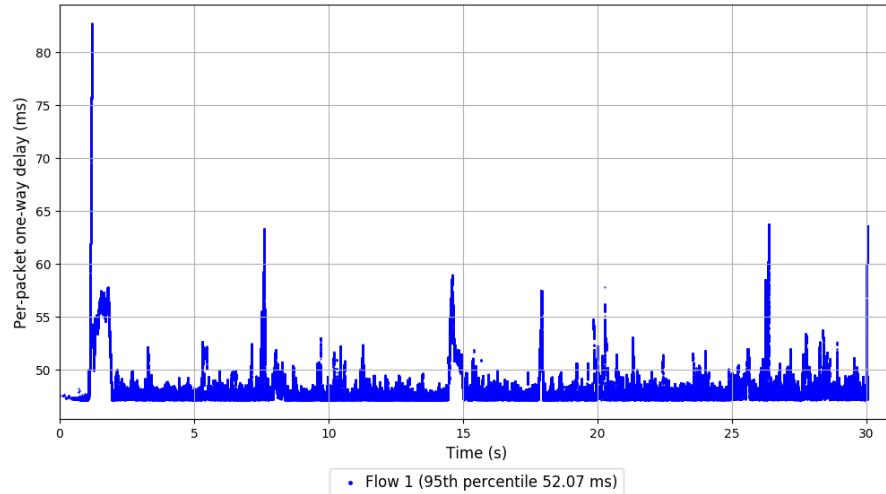
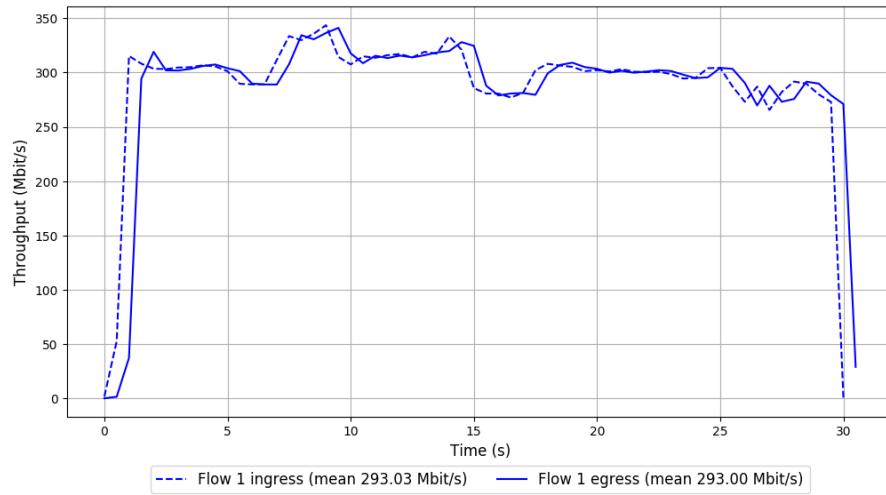


Run 1: Statistics of Copa

```
Start at: 2019-01-22 04:02:45
End at: 2019-01-22 04:03:15
Local clock offset: 0.218 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-01-22 06:33:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.00 Mbit/s
95th percentile per-packet one-way delay: 52.073 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 293.00 Mbit/s
95th percentile per-packet one-way delay: 52.073 ms
Loss rate: 0.01%
```

## Run 1: Report of Copa — Data Link

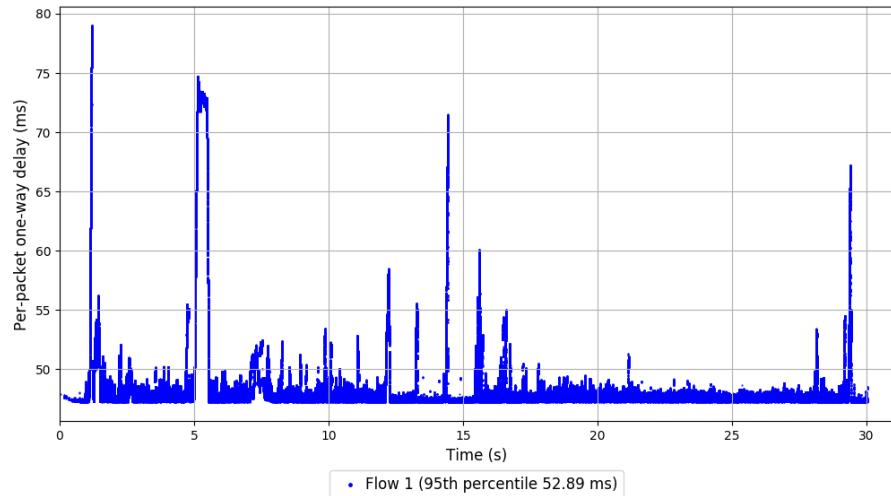
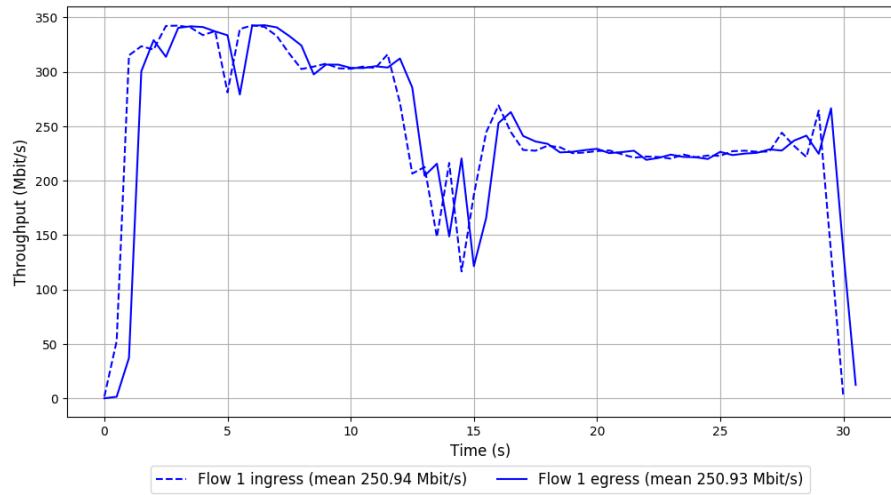


Run 2: Statistics of Copa

```
Start at: 2019-01-22 04:33:58
End at: 2019-01-22 04:34:28
Local clock offset: 0.005 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2019-01-22 06:33:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.93 Mbit/s
95th percentile per-packet one-way delay: 52.891 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 250.93 Mbit/s
95th percentile per-packet one-way delay: 52.891 ms
Loss rate: 0.00%
```

## Run 2: Report of Copa — Data Link

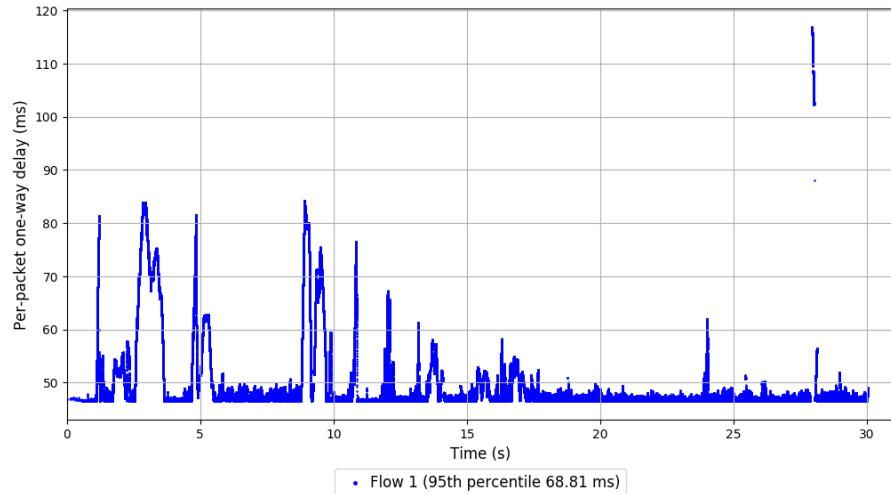
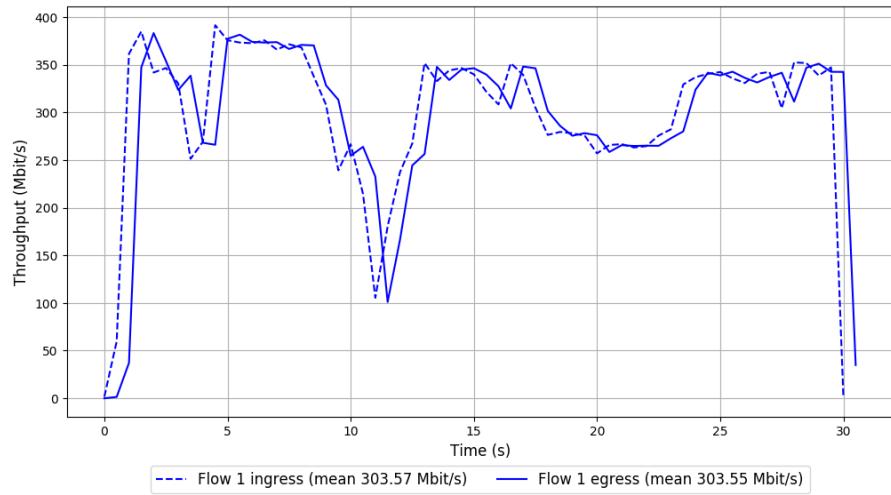


Run 3: Statistics of Copa

```
Start at: 2019-01-22 05:05:41
End at: 2019-01-22 05:06:11
Local clock offset: 0.021 ms
Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-01-22 06:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 303.55 Mbit/s
95th percentile per-packet one-way delay: 68.806 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 303.55 Mbit/s
95th percentile per-packet one-way delay: 68.806 ms
Loss rate: 0.00%
```

### Run 3: Report of Copa — Data Link

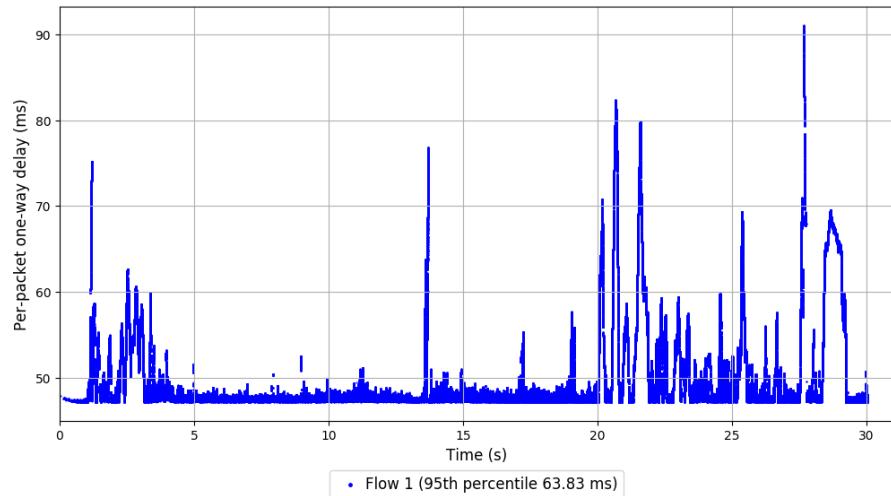
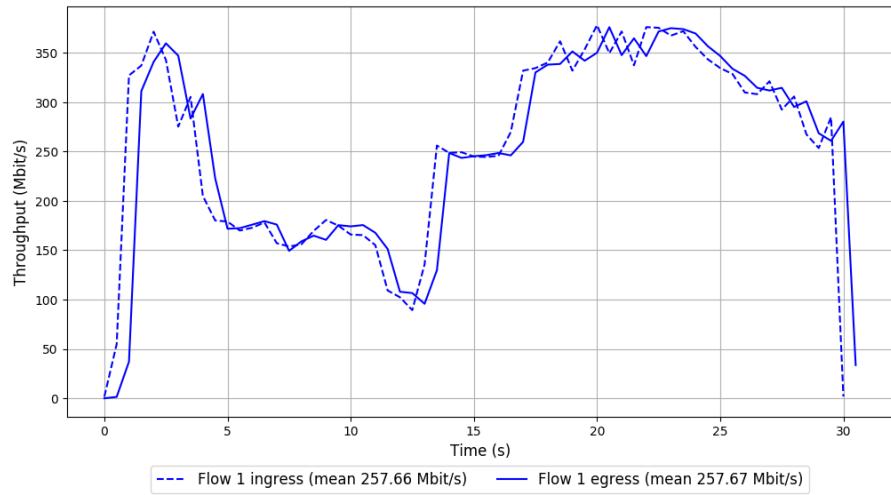


Run 4: Statistics of Copa

```
Start at: 2019-01-22 05:36:25
End at: 2019-01-22 05:36:55
Local clock offset: 0.035 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-01-22 06:40:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.67 Mbit/s
95th percentile per-packet one-way delay: 63.833 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 257.67 Mbit/s
95th percentile per-packet one-way delay: 63.833 ms
Loss rate: 0.00%
```

### Run 4: Report of Copa — Data Link

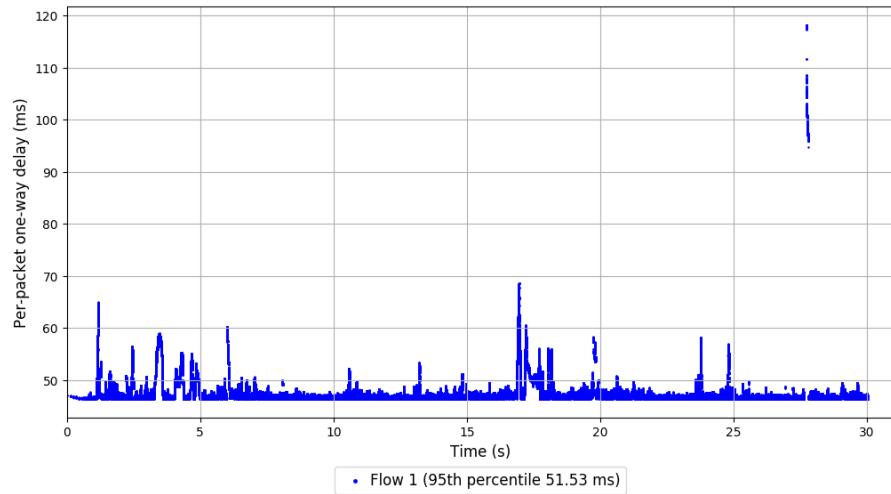
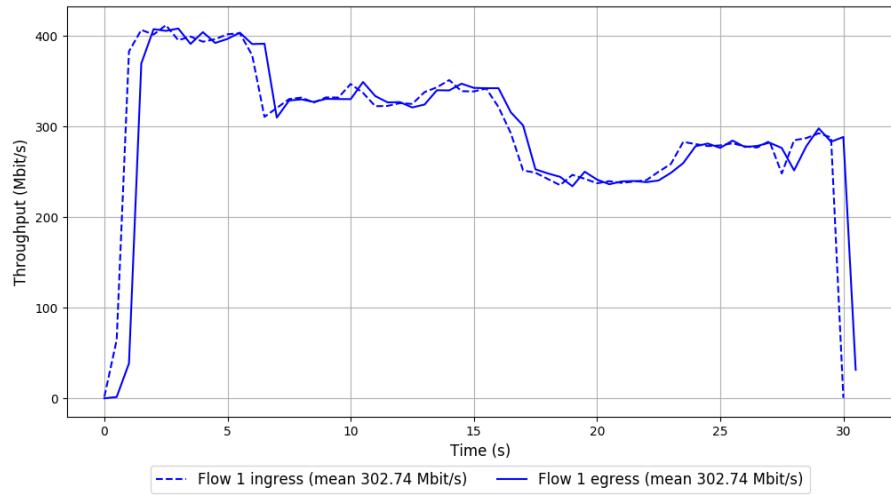


Run 5: Statistics of Copa

```
Start at: 2019-01-22 06:06:56
End at: 2019-01-22 06:07:27
Local clock offset: -0.052 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-01-22 06:43:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 302.74 Mbit/s
95th percentile per-packet one-way delay: 51.527 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 302.74 Mbit/s
95th percentile per-packet one-way delay: 51.527 ms
Loss rate: 0.00%
```

### Run 5: Report of Copa — Data Link

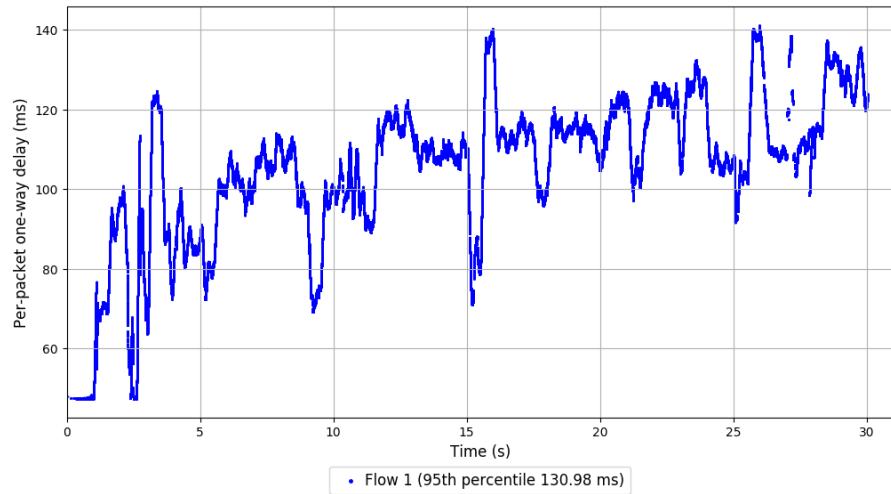
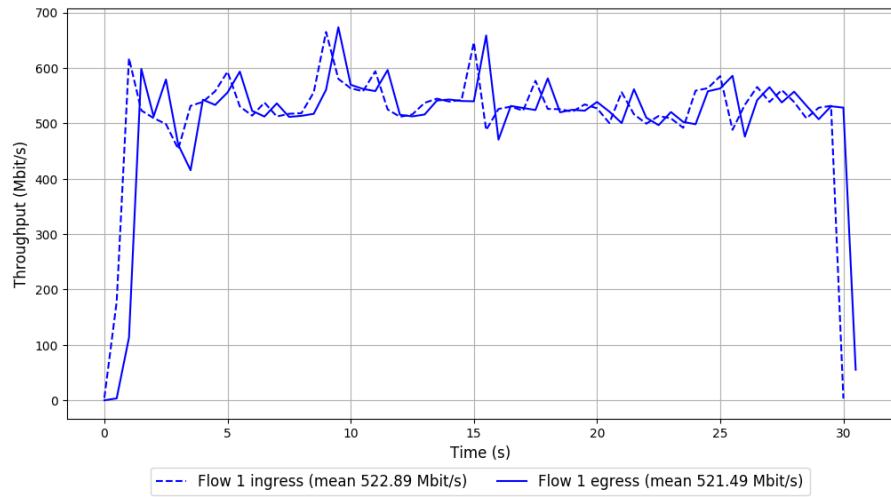


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-22 03:57:47
End at: 2019-01-22 03:58:17
Local clock offset: 0.073 ms
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2019-01-22 06:43:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 521.49 Mbit/s
95th percentile per-packet one-way delay: 130.982 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 521.49 Mbit/s
95th percentile per-packet one-way delay: 130.982 ms
Loss rate: 0.27%
```

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

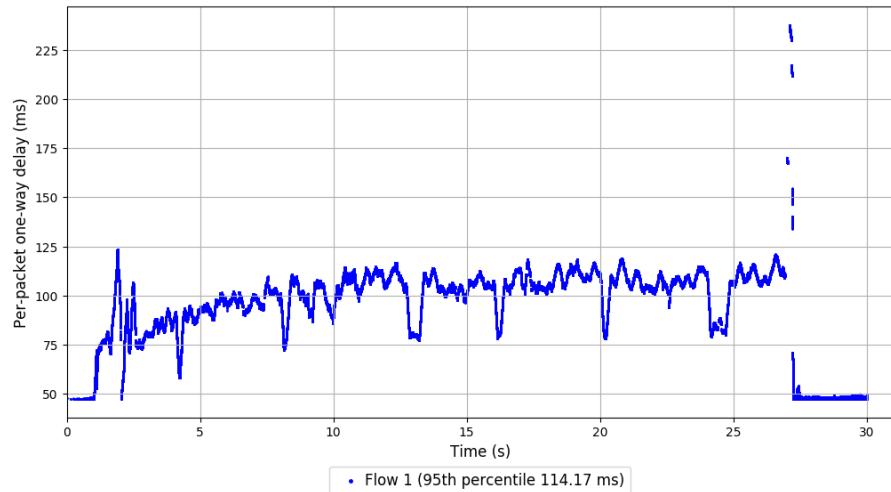
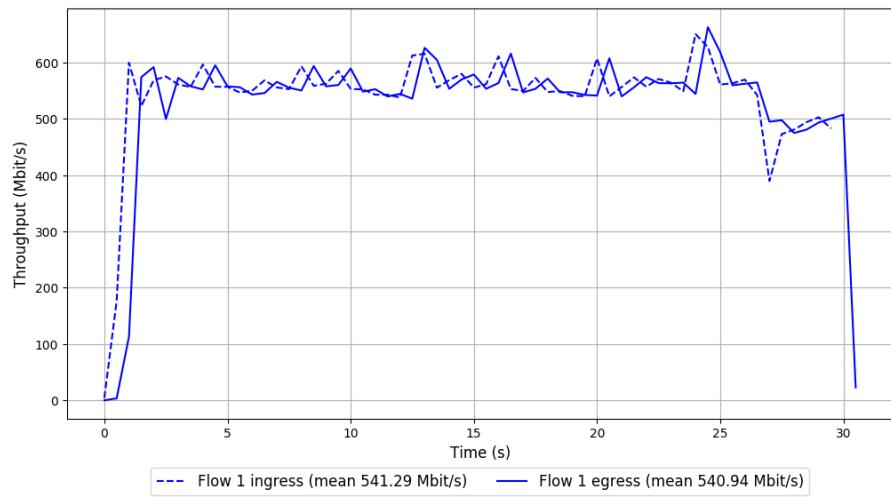


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-22 04:29:02
End at: 2019-01-22 04:29:32
Local clock offset: -0.009 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-01-22 06:43:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 540.94 Mbit/s
95th percentile per-packet one-way delay: 114.173 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 540.94 Mbit/s
95th percentile per-packet one-way delay: 114.173 ms
Loss rate: 0.07%
```

Run 2: Report of TCP Cubic — Data Link

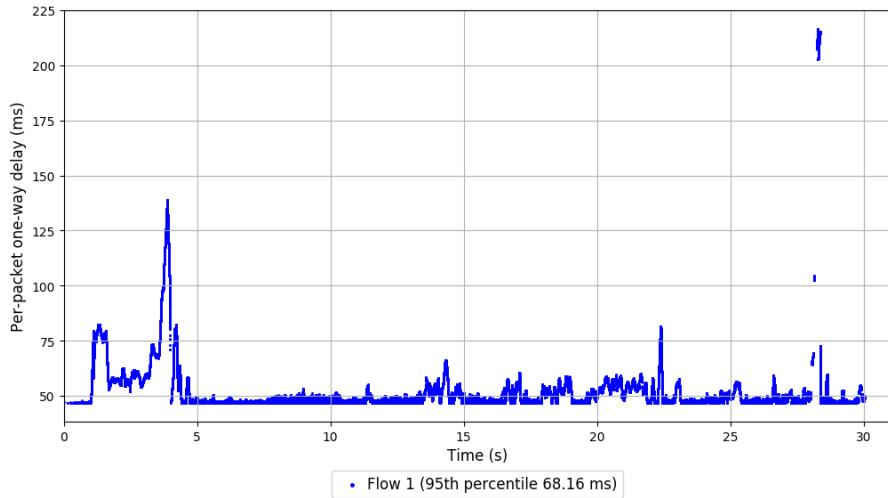
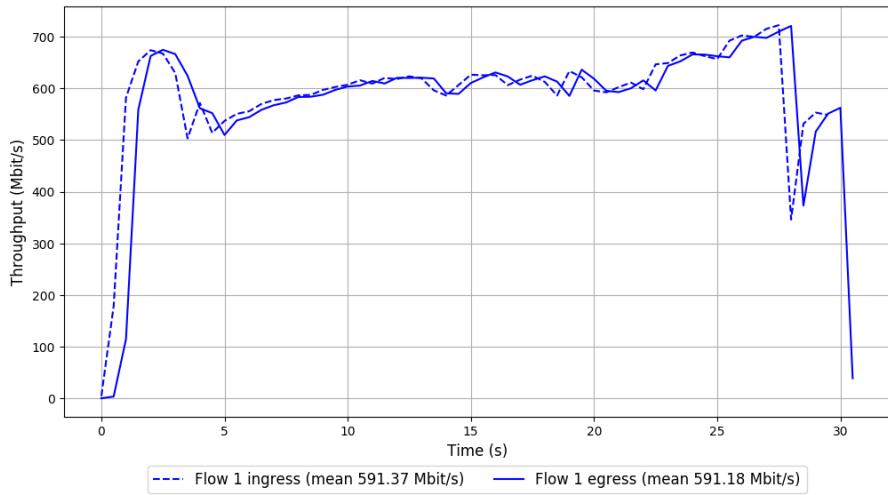


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-22 05:00:41
End at: 2019-01-22 05:01:11
Local clock offset: 0.47 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-01-22 06:44:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 591.18 Mbit/s
95th percentile per-packet one-way delay: 68.162 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 591.18 Mbit/s
95th percentile per-packet one-way delay: 68.162 ms
Loss rate: 0.03%
```

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

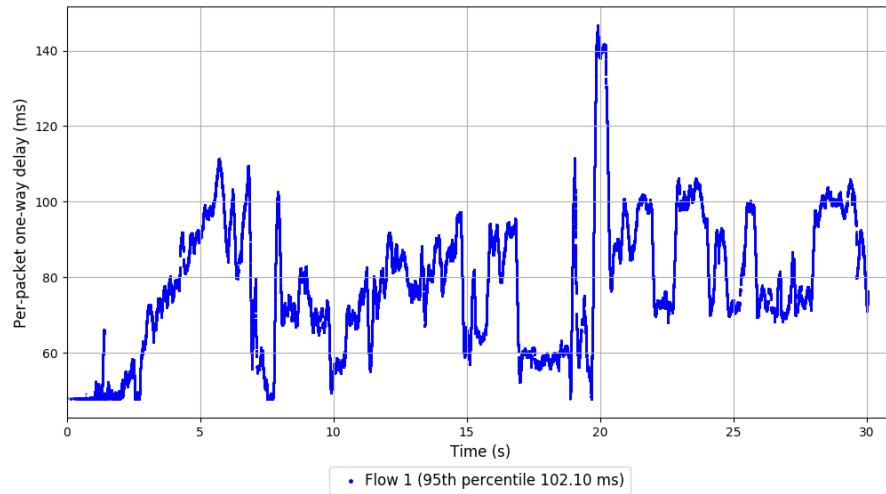
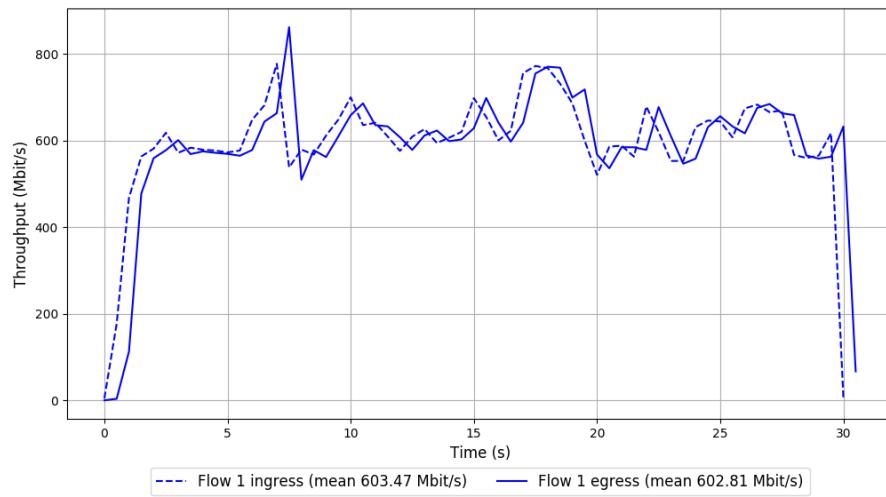


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-22 05:31:38
End at: 2019-01-22 05:32:08
Local clock offset: -0.384 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-01-22 06:44:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 602.81 Mbit/s
95th percentile per-packet one-way delay: 102.101 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 602.81 Mbit/s
95th percentile per-packet one-way delay: 102.101 ms
Loss rate: 0.11%
```

Run 4: Report of TCP Cubic — Data Link

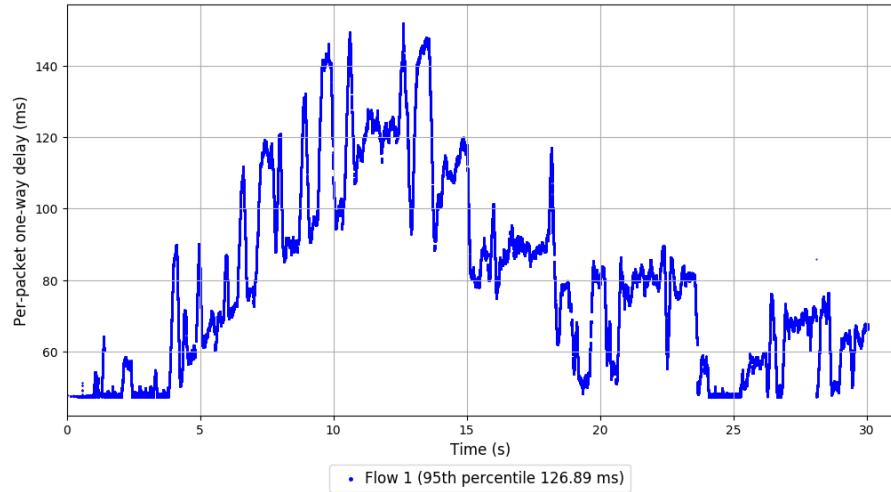
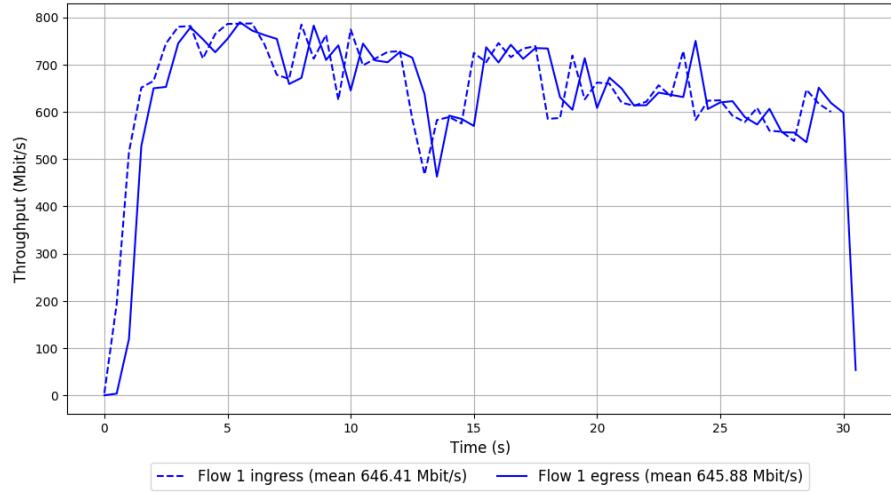


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-22 06:02:12
End at: 2019-01-22 06:02:42
Local clock offset: -0.056 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-01-22 06:45:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 645.88 Mbit/s
95th percentile per-packet one-way delay: 126.894 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 645.88 Mbit/s
95th percentile per-packet one-way delay: 126.894 ms
Loss rate: 0.08%
```

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

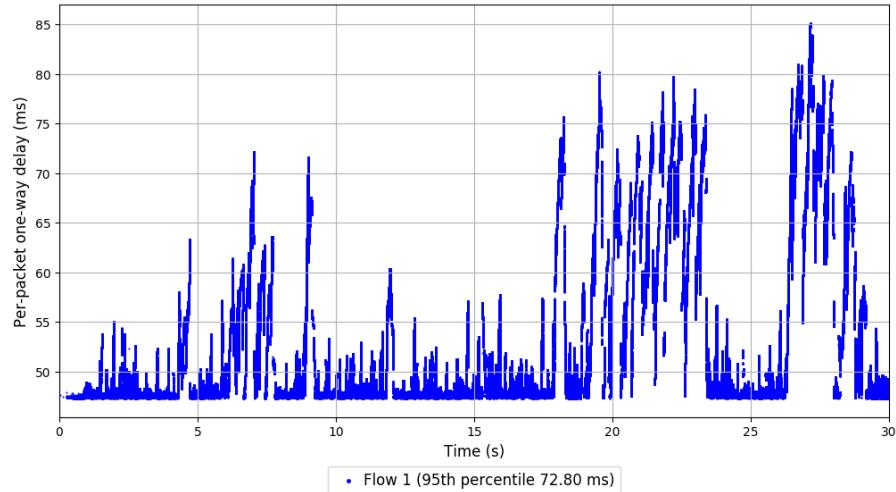
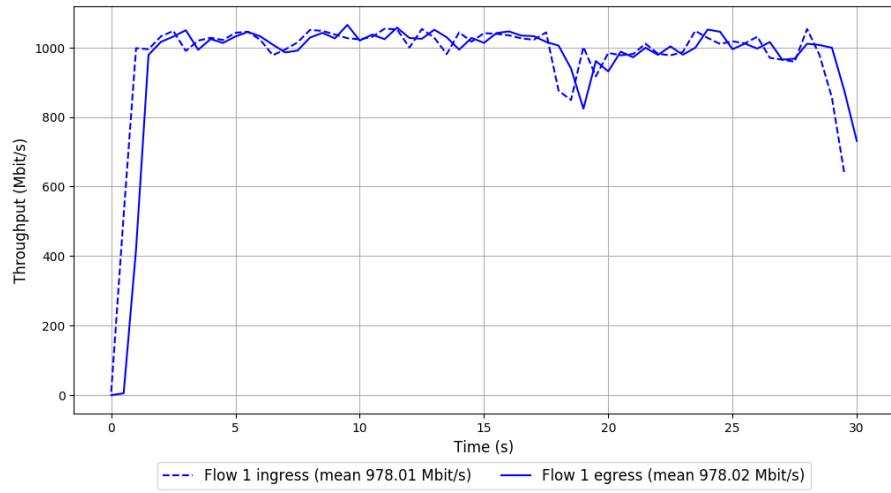


```
Run 1: Statistics of FillP
```

```
Start at: 2019-01-22 03:54:42
End at: 2019-01-22 03:55:12
Local clock offset: 0.044 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-01-22 06:52:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 978.02 Mbit/s
95th percentile per-packet one-way delay: 72.797 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 978.02 Mbit/s
95th percentile per-packet one-way delay: 72.797 ms
Loss rate: 0.00%
```

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

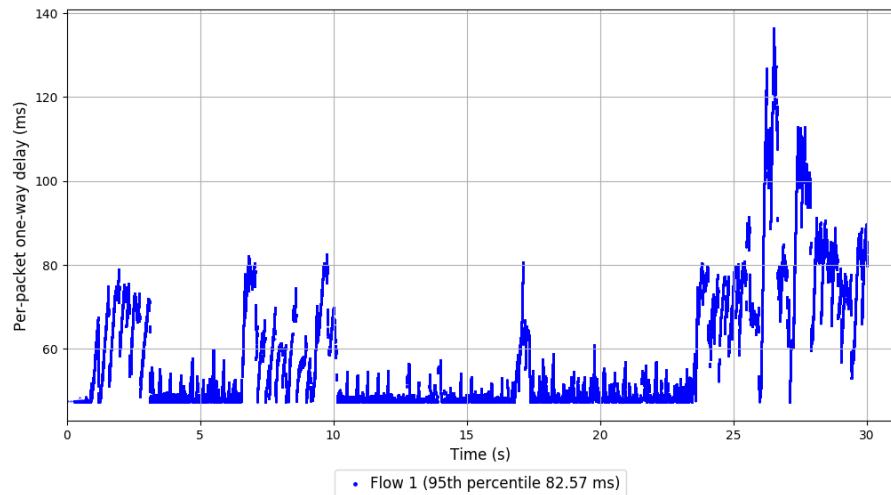
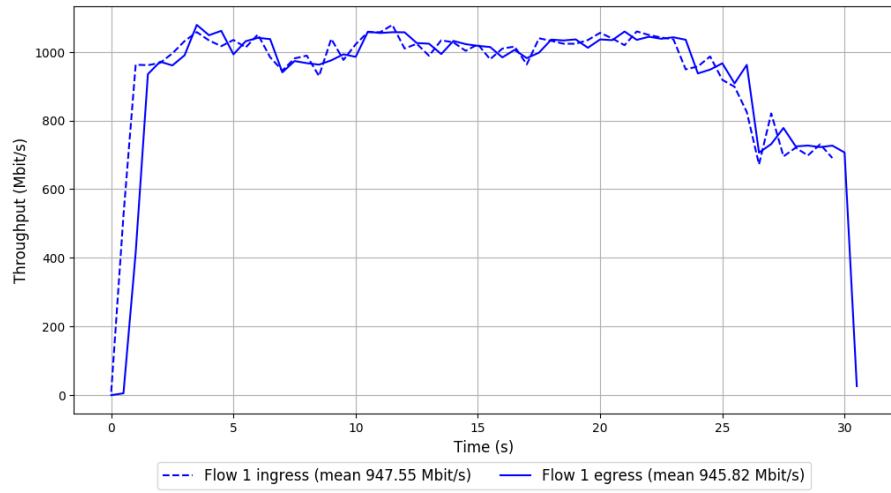


Run 2: Statistics of FillP

```
Start at: 2019-01-22 04:26:01
End at: 2019-01-22 04:26:31
Local clock offset: -0.044 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-01-22 07:03:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 945.82 Mbit/s
95th percentile per-packet one-way delay: 82.572 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 945.82 Mbit/s
95th percentile per-packet one-way delay: 82.572 ms
Loss rate: 0.18%
```

## Run 2: Report of FillP — Data Link

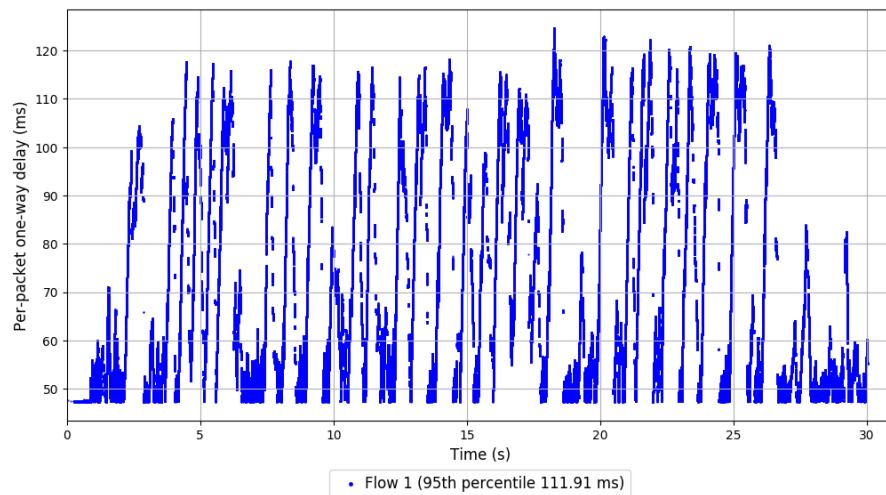
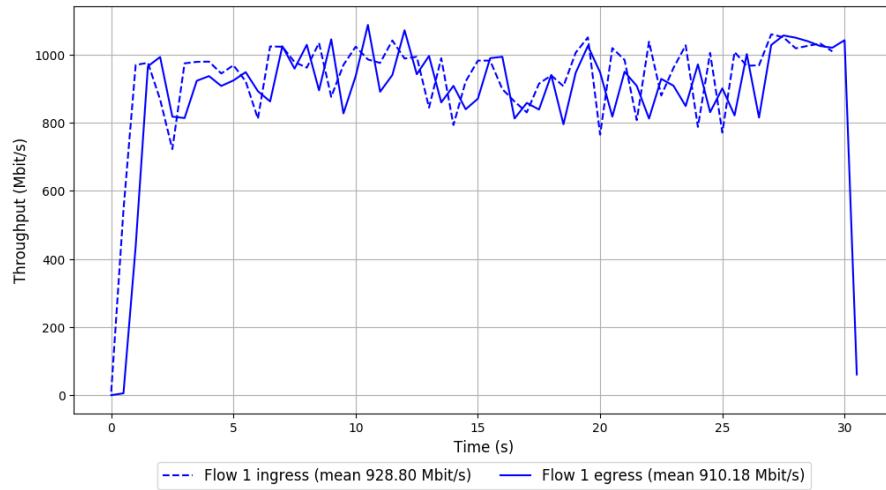


Run 3: Statistics of FillP

```
Start at: 2019-01-22 04:57:40
End at: 2019-01-22 04:58:10
Local clock offset: 0.02 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-01-22 07:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 910.18 Mbit/s
95th percentile per-packet one-way delay: 111.909 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 910.18 Mbit/s
95th percentile per-packet one-way delay: 111.909 ms
Loss rate: 2.00%
```

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

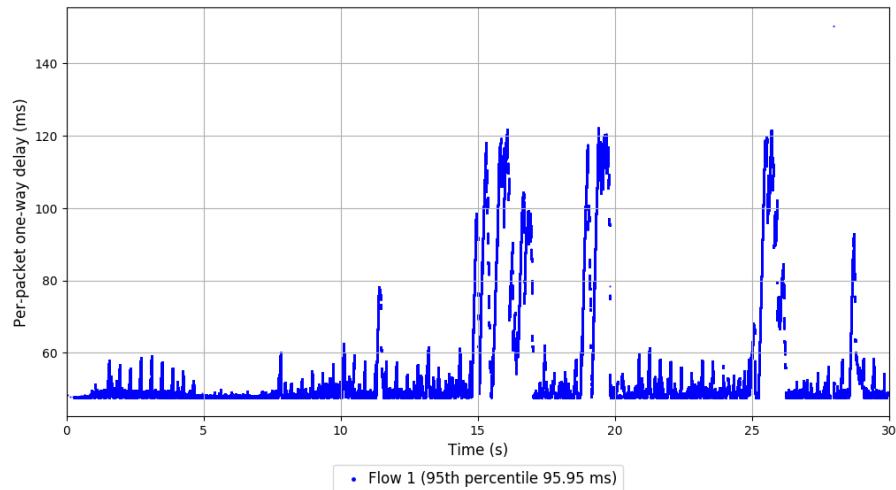
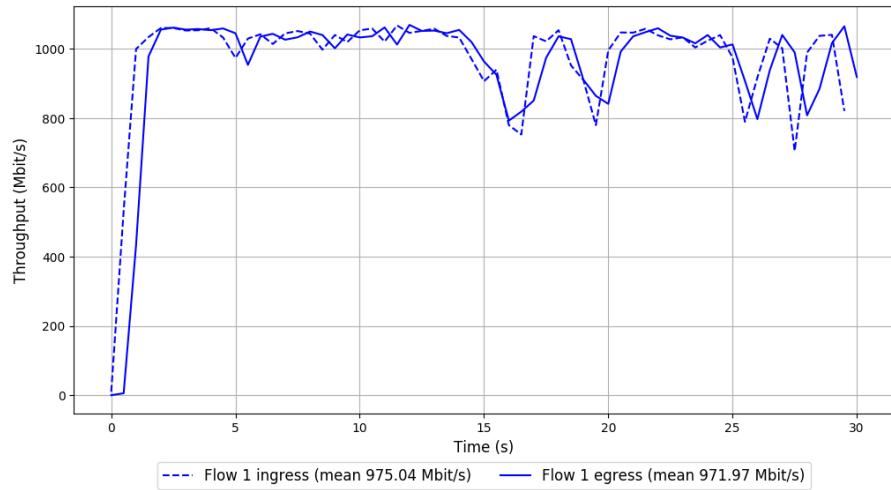


Run 4: Statistics of FillP

```
Start at: 2019-01-22 05:28:46
End at: 2019-01-22 05:29:16
Local clock offset: -0.361 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-01-22 07:05:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 971.97 Mbit/s
95th percentile per-packet one-way delay: 95.947 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 971.97 Mbit/s
95th percentile per-packet one-way delay: 95.947 ms
Loss rate: 0.32%
```

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

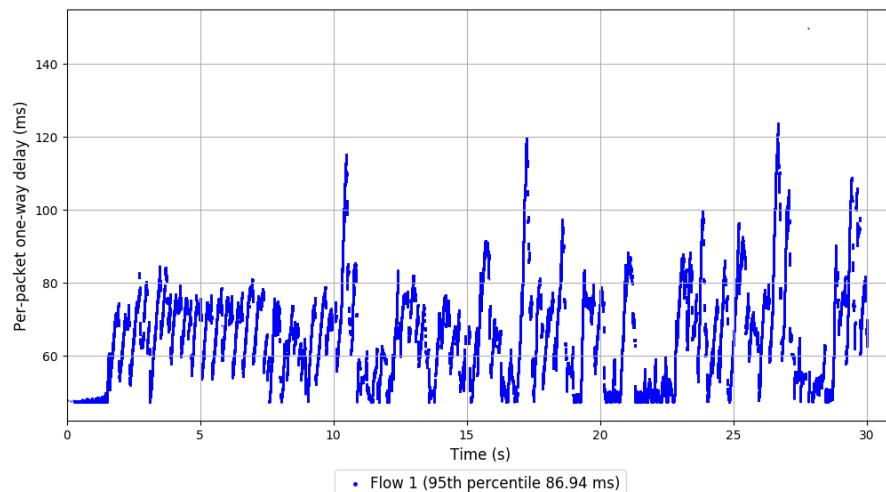
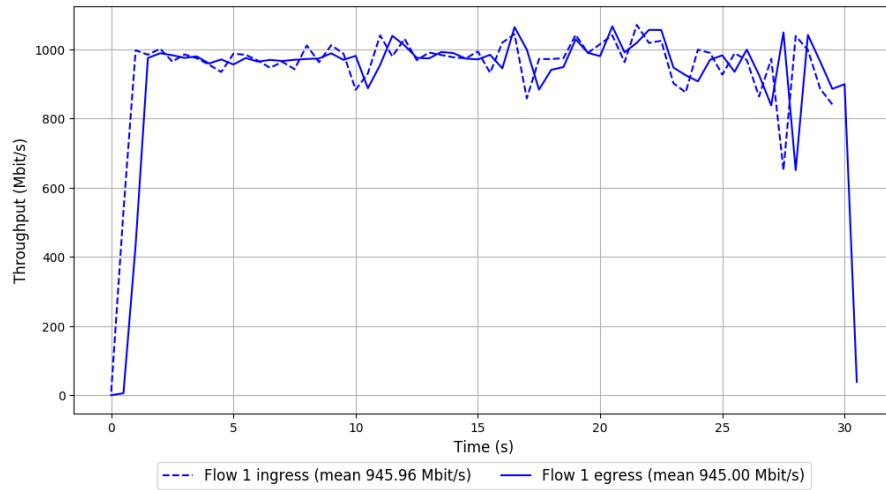


Run 5: Statistics of FillP

```
Start at: 2019-01-22 05:59:21
End at: 2019-01-22 05:59:51
Local clock offset: -0.038 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-01-22 07:05:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 945.00 Mbit/s
95th percentile per-packet one-way delay: 86.935 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 945.00 Mbit/s
95th percentile per-packet one-way delay: 86.935 ms
Loss rate: 0.09%
```

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

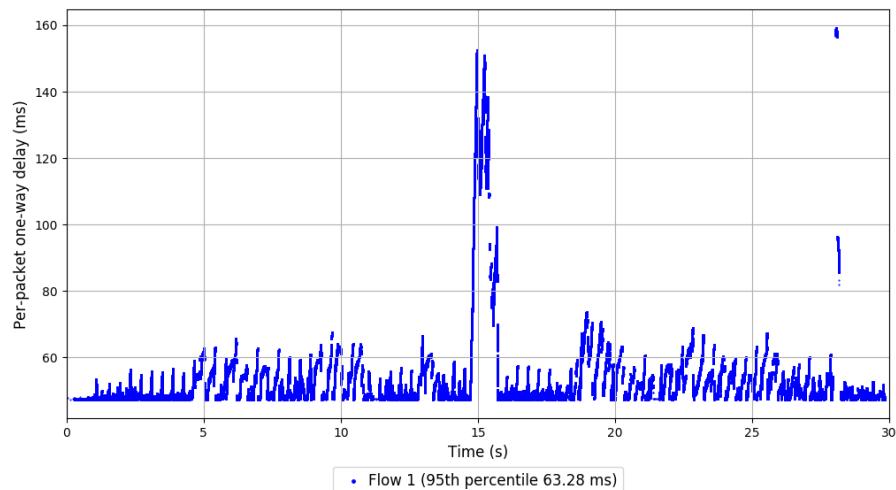
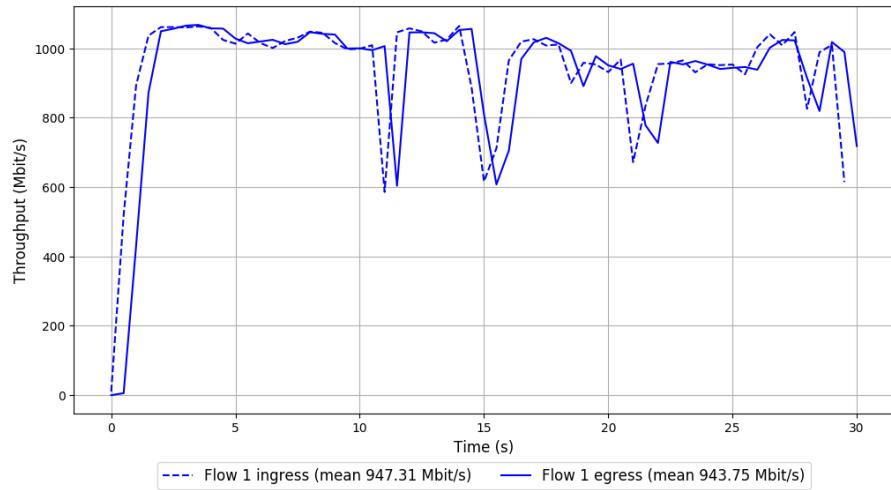


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-22 03:48:56
End at: 2019-01-22 03:49:26
Local clock offset: 0.049 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-01-22 07:05:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 943.75 Mbit/s
95th percentile per-packet one-way delay: 63.285 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 943.75 Mbit/s
95th percentile per-packet one-way delay: 63.285 ms
Loss rate: 0.38%
```

Run 1: Report of FillP-Sheep — Data Link

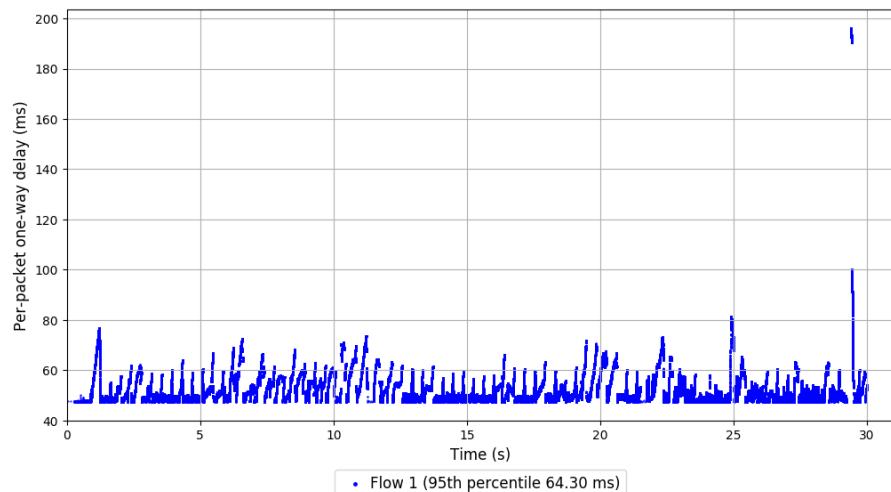
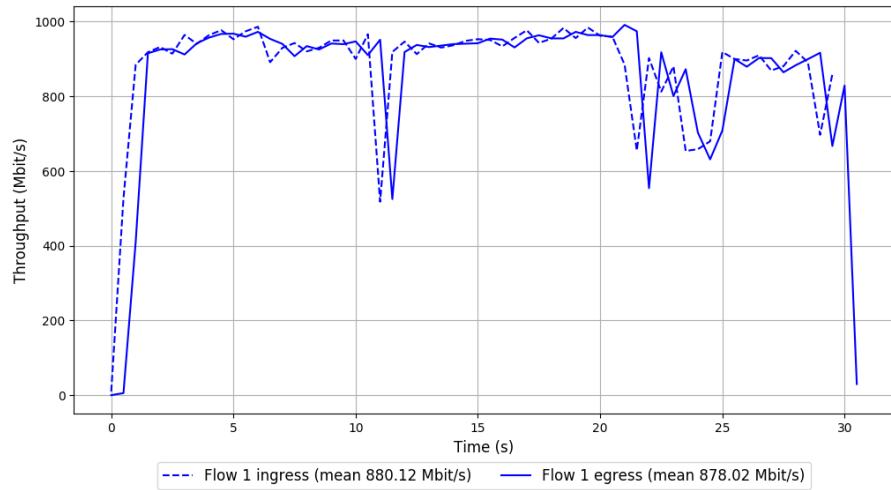


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-22 04:20:26
End at: 2019-01-22 04:20:56
Local clock offset: 0.068 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-01-22 07:05:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 878.02 Mbit/s
95th percentile per-packet one-way delay: 64.296 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 878.02 Mbit/s
95th percentile per-packet one-way delay: 64.296 ms
Loss rate: 0.24%
```

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

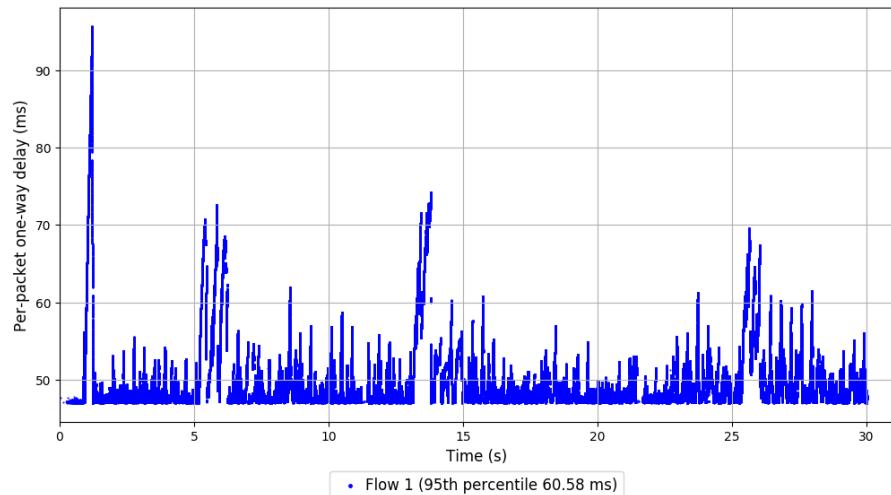
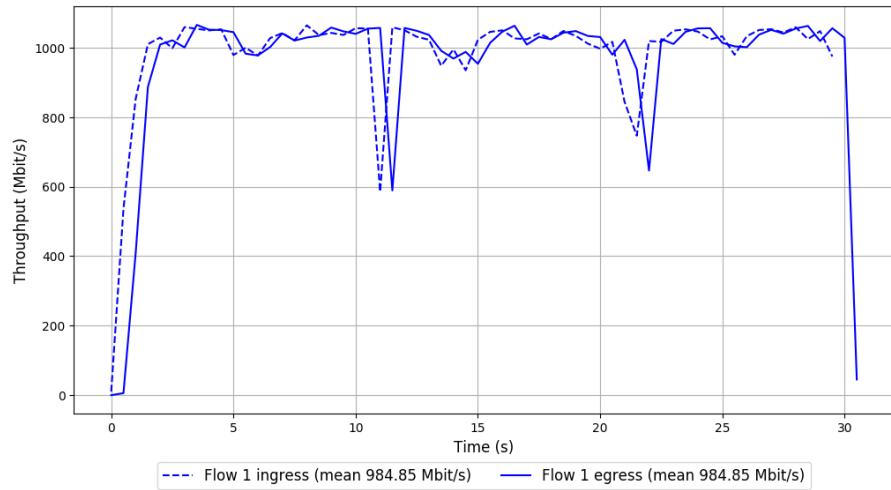


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-22 04:51:52
End at: 2019-01-22 04:52:23
Local clock offset: 0.069 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-01-22 07:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 984.85 Mbit/s
95th percentile per-packet one-way delay: 60.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 984.85 Mbit/s
95th percentile per-packet one-way delay: 60.579 ms
Loss rate: 0.00%
```

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

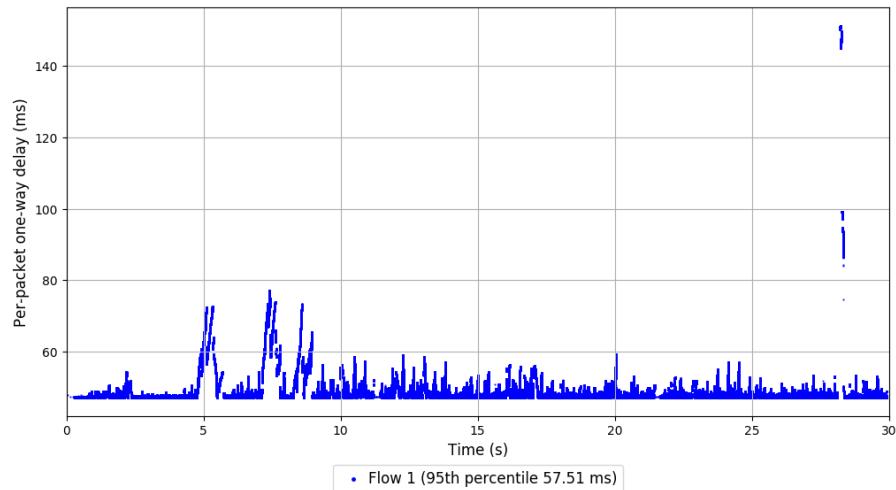
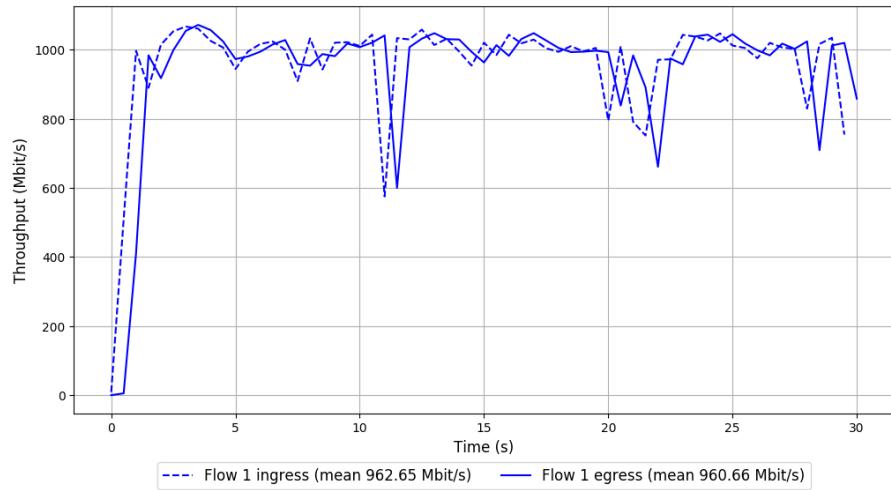


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-22 05:23:12
End at: 2019-01-22 05:23:42
Local clock offset: 0.176 ms
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2019-01-22 07:18:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 960.66 Mbit/s
95th percentile per-packet one-way delay: 57.509 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 960.66 Mbit/s
95th percentile per-packet one-way delay: 57.509 ms
Loss rate: 0.21%
```

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

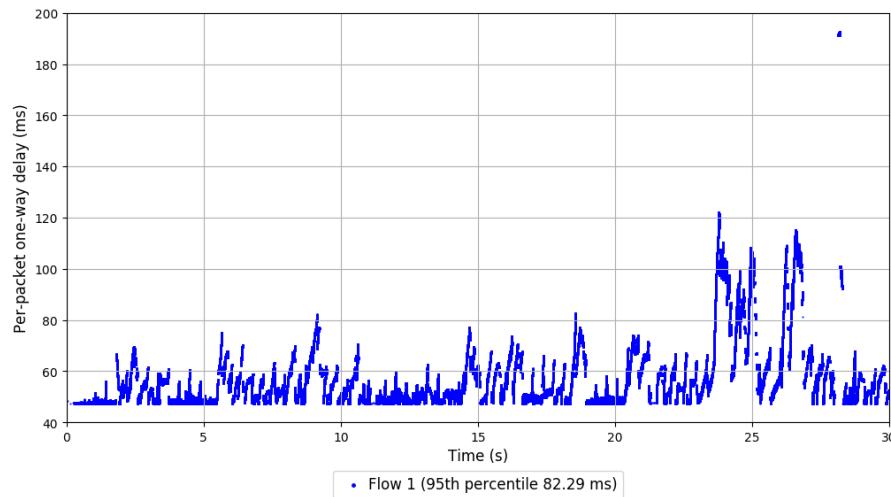
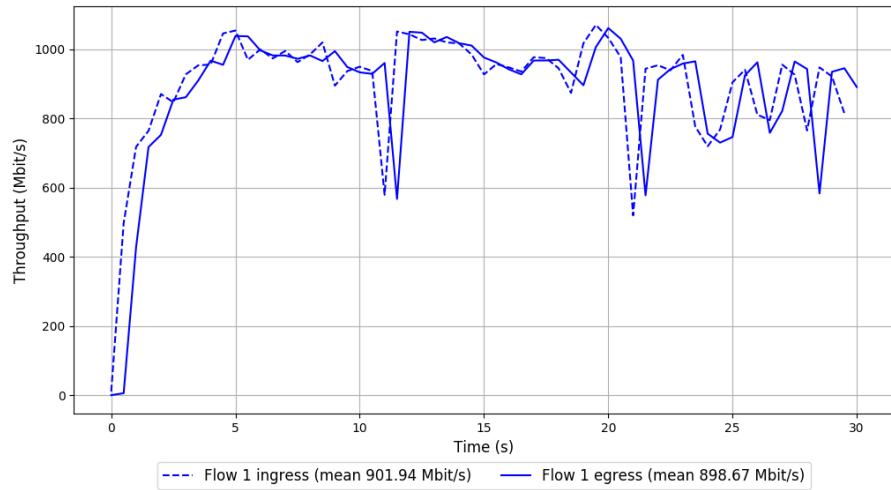


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-22 05:53:49
End at: 2019-01-22 05:54:19
Local clock offset: -0.049 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-01-22 07:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 898.67 Mbit/s
95th percentile per-packet one-way delay: 82.288 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 898.67 Mbit/s
95th percentile per-packet one-way delay: 82.288 ms
Loss rate: 0.36%
```

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

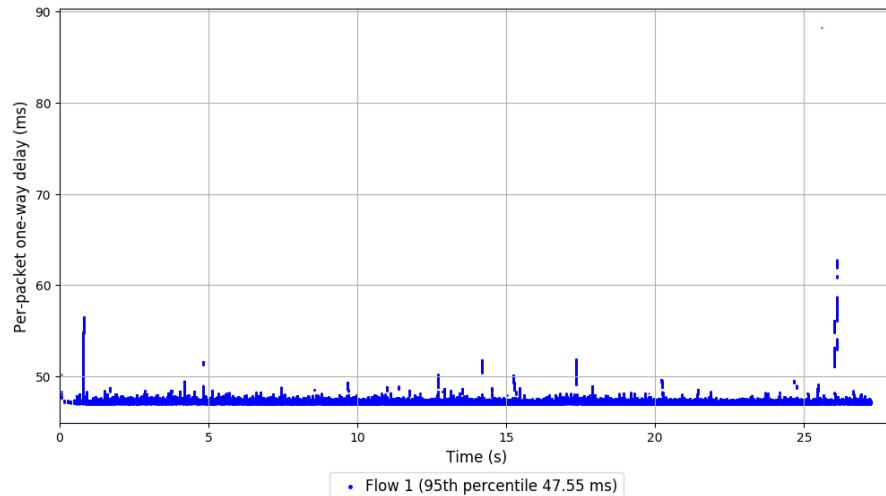
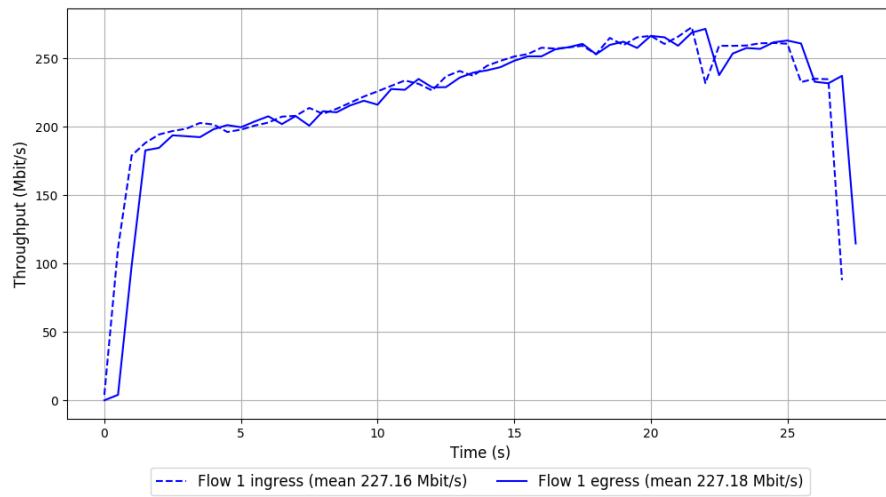


Run 1: Statistics of Indigo

```
Start at: 2019-01-22 03:52:00
End at: 2019-01-22 03:52:30
Local clock offset: 0.392 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-01-22 07:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.18 Mbit/s
95th percentile per-packet one-way delay: 47.554 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.18 Mbit/s
95th percentile per-packet one-way delay: 47.554 ms
Loss rate: 0.00%
```

## Run 1: Report of Indigo — Data Link

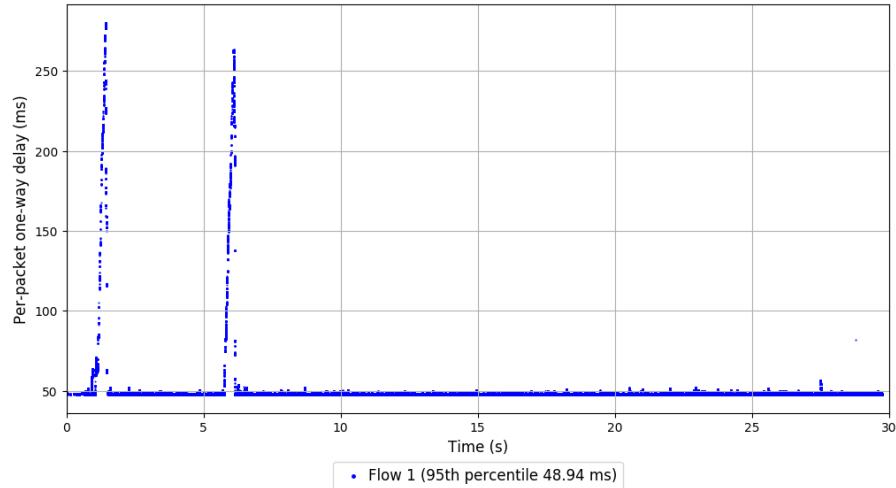
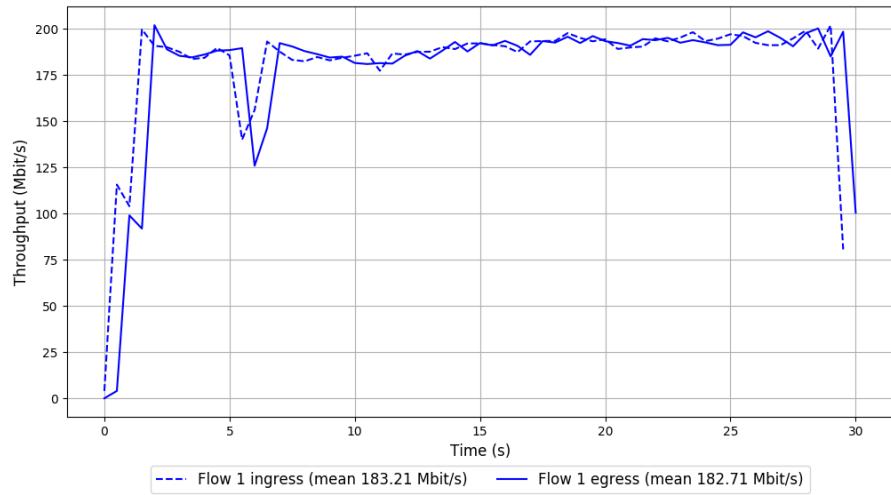


Run 2: Statistics of Indigo

```
Start at: 2019-01-22 04:23:24
End at: 2019-01-22 04:23:54
Local clock offset: -0.006 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-01-22 07:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.71 Mbit/s
95th percentile per-packet one-way delay: 48.937 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 182.71 Mbit/s
95th percentile per-packet one-way delay: 48.937 ms
Loss rate: 0.27%
```

## Run 2: Report of Indigo — Data Link

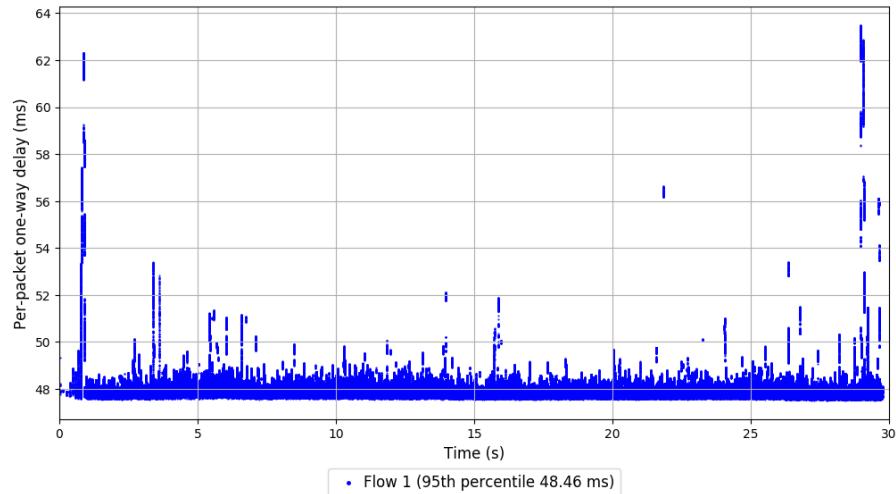
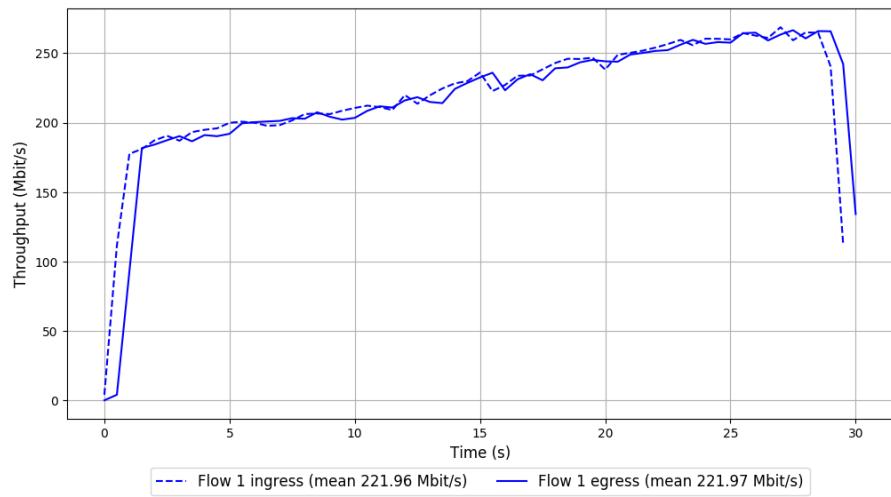


Run 3: Statistics of Indigo

```
Start at: 2019-01-22 04:54:55
End at: 2019-01-22 04:55:25
Local clock offset: -0.032 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-01-22 07:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.97 Mbit/s
95th percentile per-packet one-way delay: 48.464 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.97 Mbit/s
95th percentile per-packet one-way delay: 48.464 ms
Loss rate: 0.00%
```

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

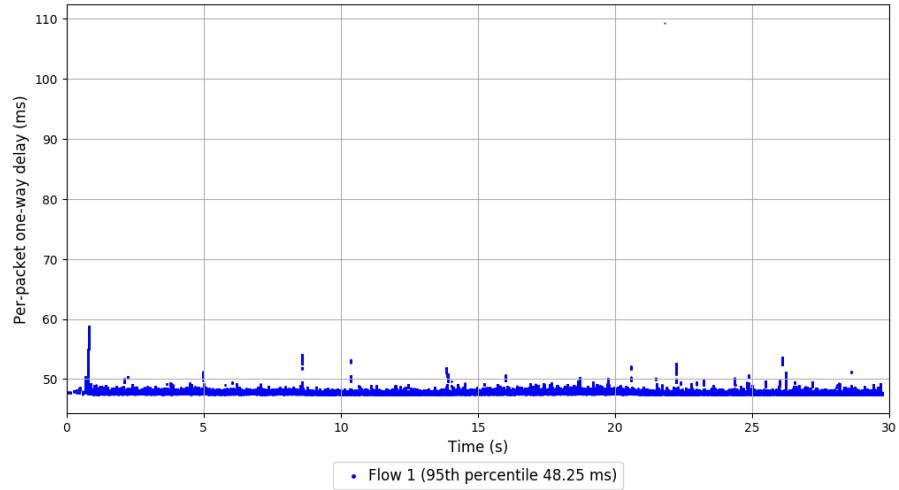
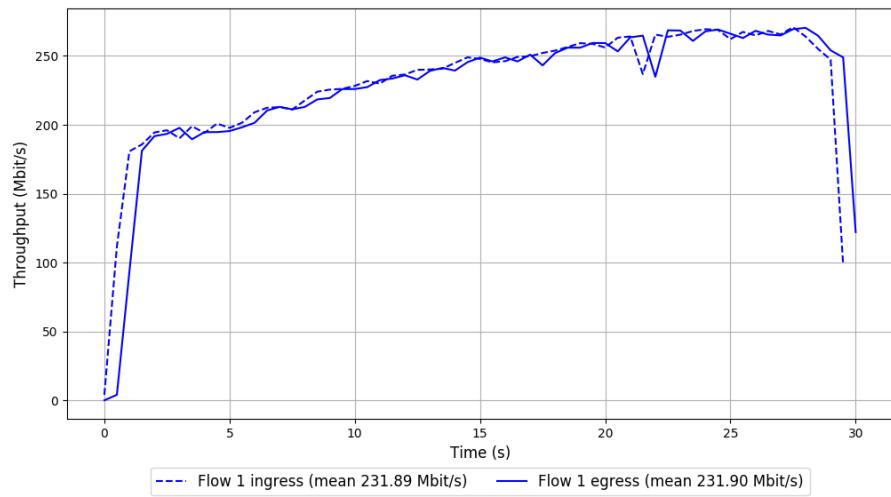


Run 4: Statistics of Indigo

```
Start at: 2019-01-22 05:26:07
End at: 2019-01-22 05:26:37
Local clock offset: 0.055 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-01-22 07:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.90 Mbit/s
95th percentile per-packet one-way delay: 48.247 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.90 Mbit/s
95th percentile per-packet one-way delay: 48.247 ms
Loss rate: 0.00%
```

## Run 4: Report of Indigo — Data Link

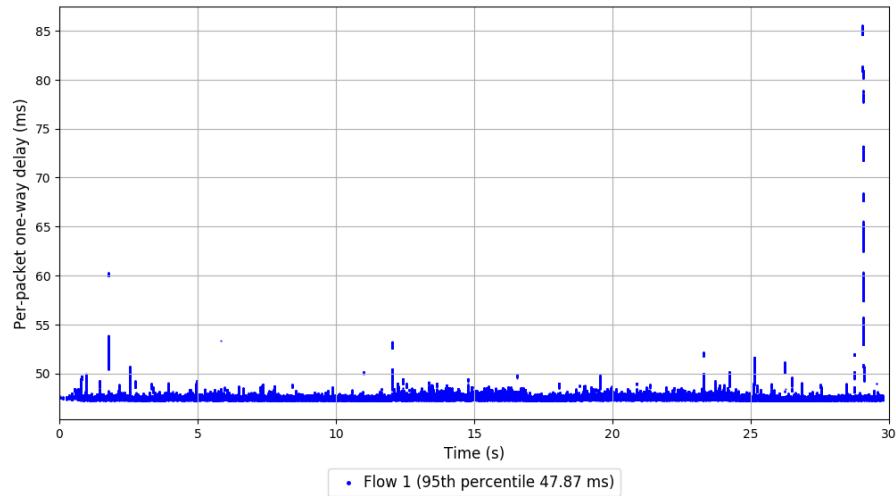
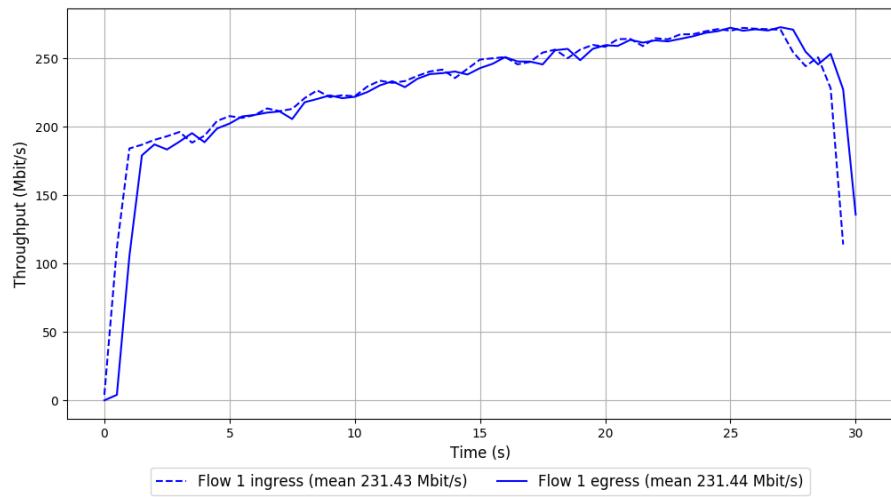


Run 5: Statistics of Indigo

```
Start at: 2019-01-22 05:56:42
End at: 2019-01-22 05:57:12
Local clock offset: -0.016 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-01-22 07:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.44 Mbit/s
95th percentile per-packet one-way delay: 47.870 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.44 Mbit/s
95th percentile per-packet one-way delay: 47.870 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

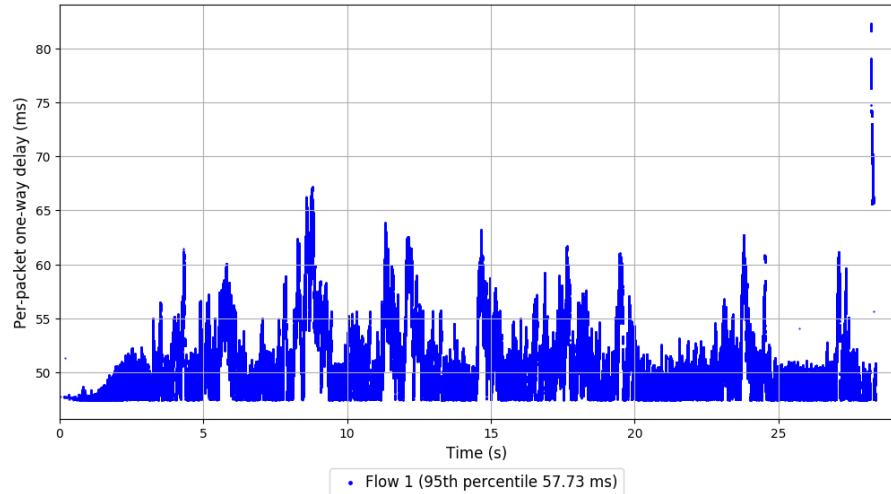
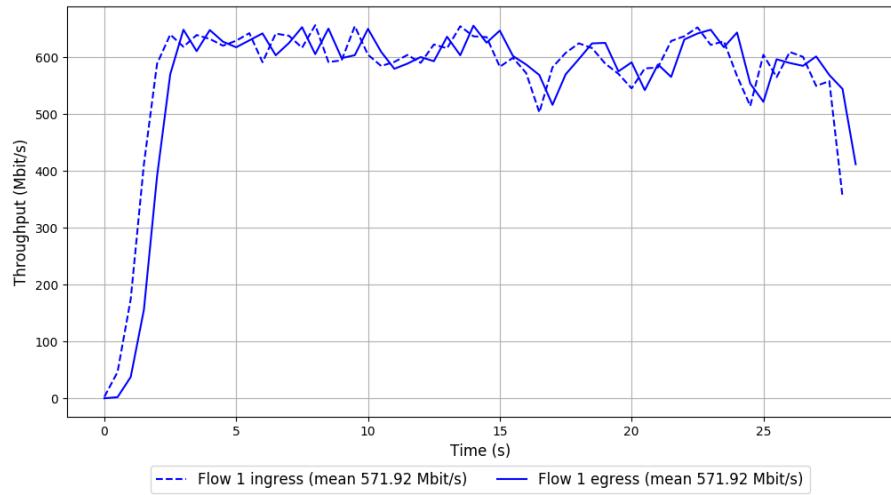


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-01-22 03:41:48
End at: 2019-01-22 03:42:18
Local clock offset: 0.055 ms
Remote clock offset: 0.141 ms

# Below is generated by plot.py at 2019-01-22 07:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 571.92 Mbit/s
95th percentile per-packet one-way delay: 57.735 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 571.92 Mbit/s
95th percentile per-packet one-way delay: 57.735 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC3 — Data Link

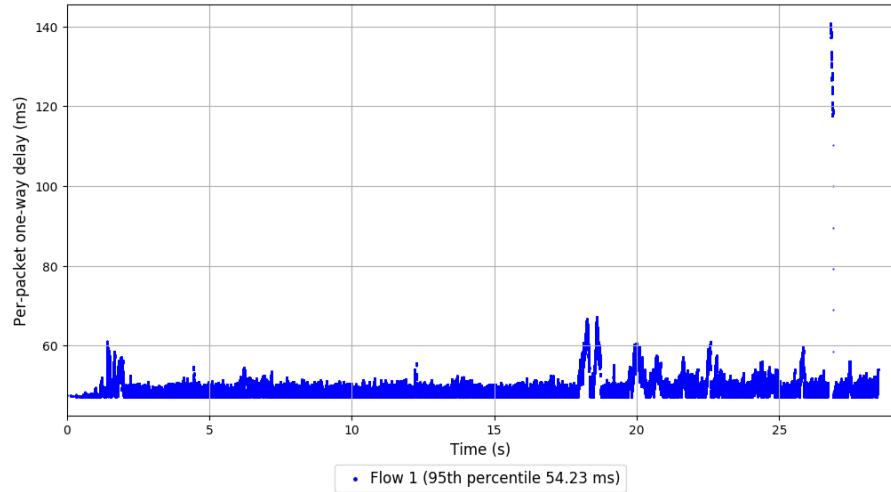
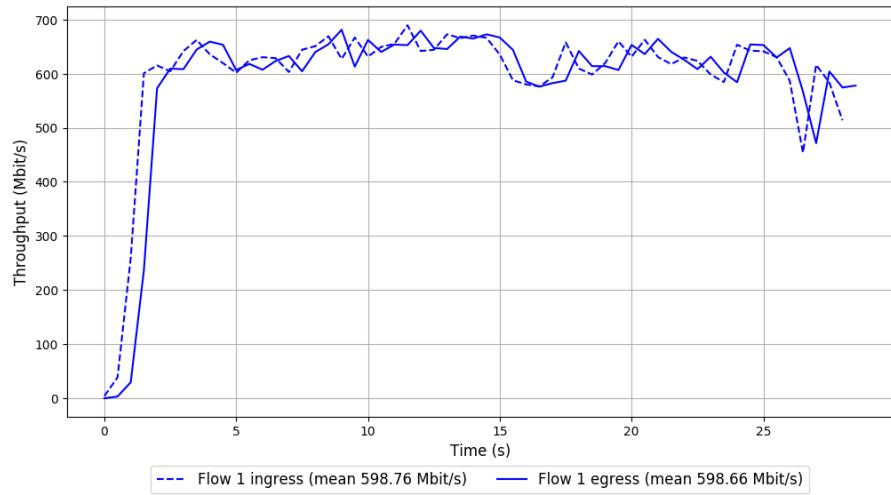


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 04:14:03
End at: 2019-01-22 04:14:33
Local clock offset: -0.002 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-01-22 07:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 598.66 Mbit/s
95th percentile per-packet one-way delay: 54.233 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 598.66 Mbit/s
95th percentile per-packet one-way delay: 54.233 ms
Loss rate: 0.02%
```

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

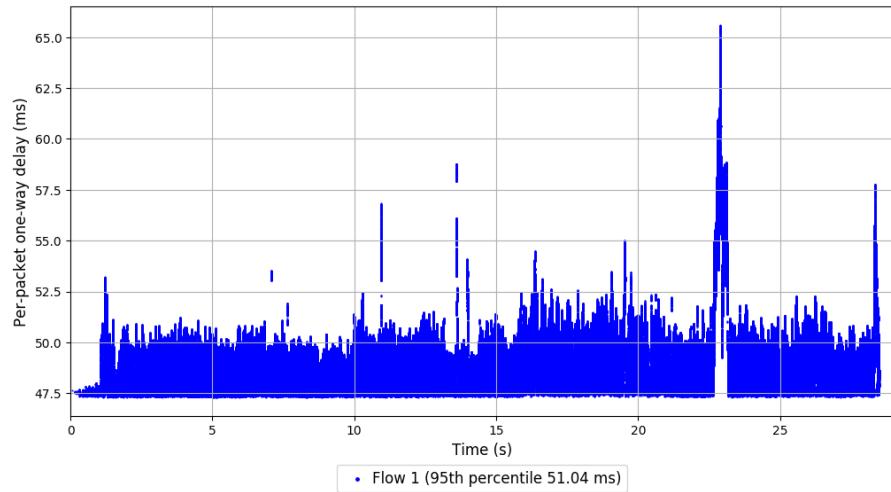
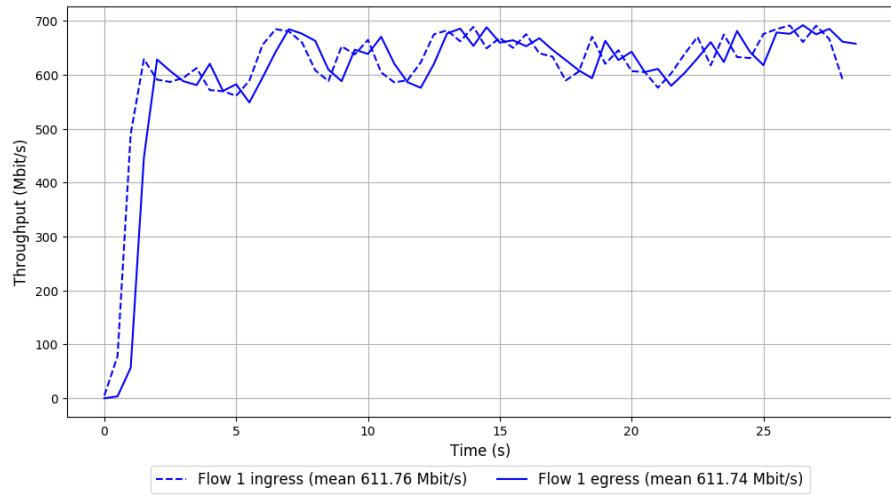


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 04:45:17
End at: 2019-01-22 04:45:47
Local clock offset: 0.113 ms
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2019-01-22 07:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 611.74 Mbit/s
95th percentile per-packet one-way delay: 51.037 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 611.74 Mbit/s
95th percentile per-packet one-way delay: 51.037 ms
Loss rate: 0.00%
```

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

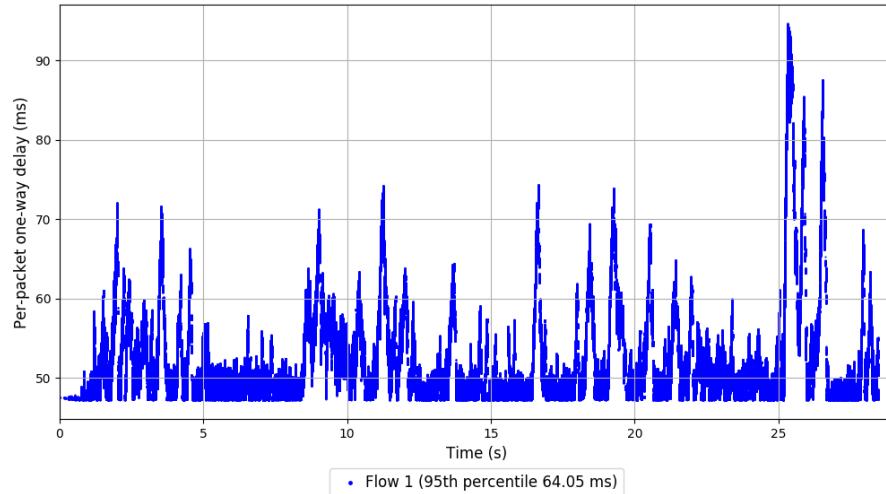
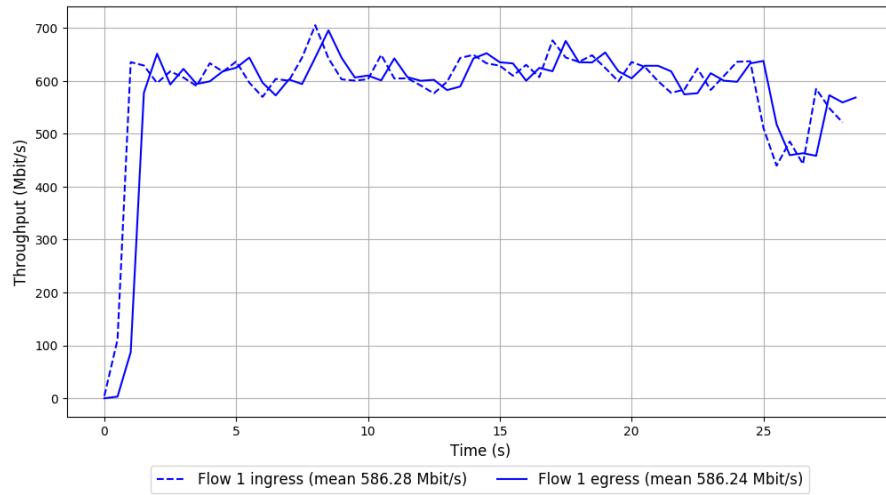


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 05:16:54
End at: 2019-01-22 05:17:24
Local clock offset: 0.148 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-01-22 07:25:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 586.24 Mbit/s
95th percentile per-packet one-way delay: 64.047 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 586.24 Mbit/s
95th percentile per-packet one-way delay: 64.047 ms
Loss rate: 0.01%
```

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

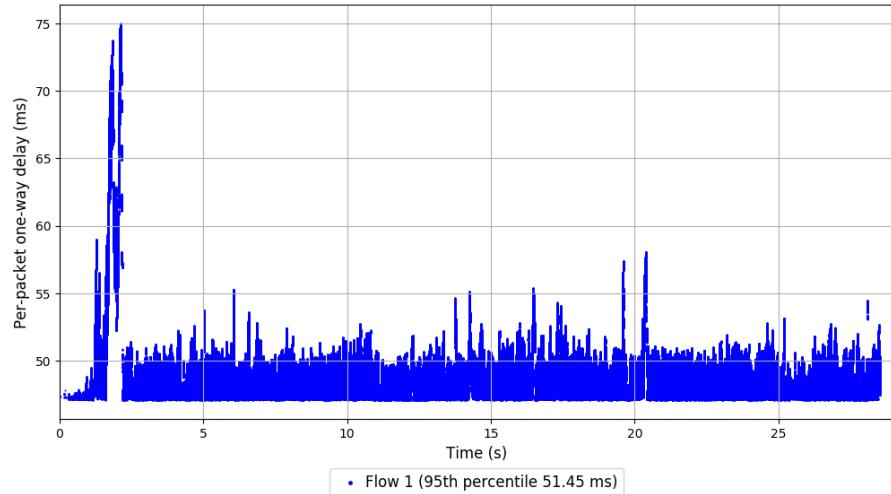
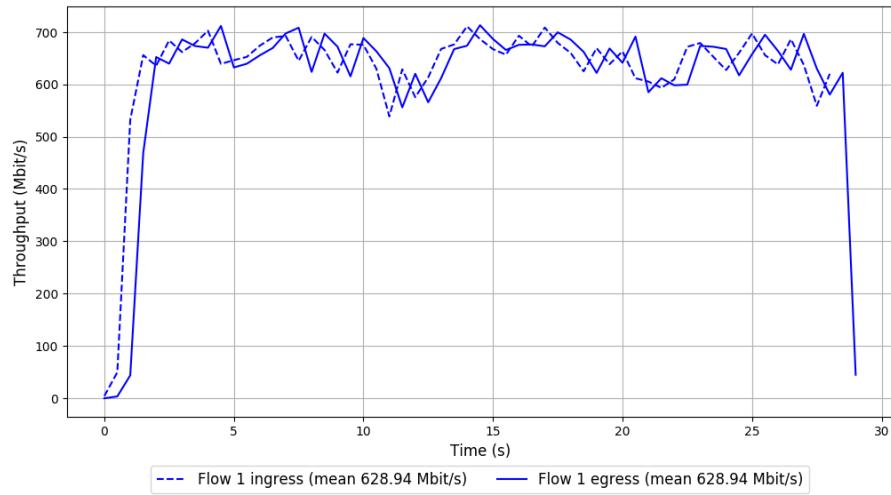


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 05:47:26
End at: 2019-01-22 05:47:56
Local clock offset: 0.101 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-01-22 07:26:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 628.94 Mbit/s
95th percentile per-packet one-way delay: 51.452 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 628.94 Mbit/s
95th percentile per-packet one-way delay: 51.452 ms
Loss rate: 0.00%
```

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

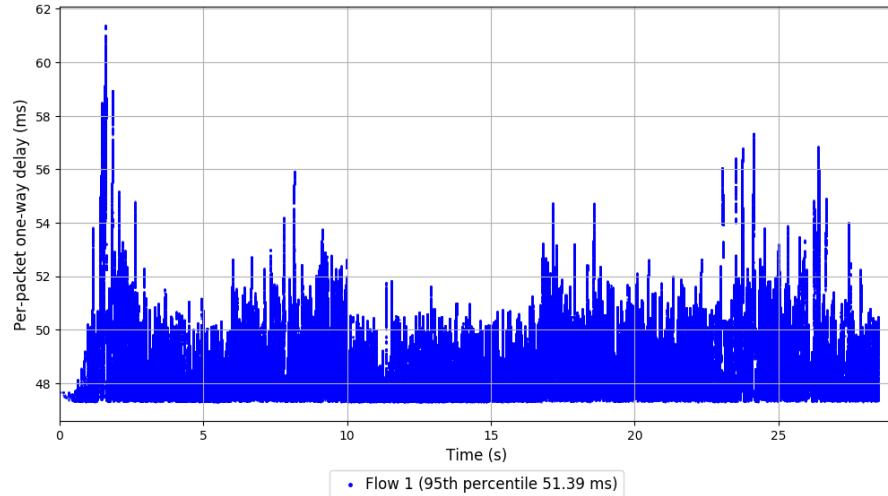
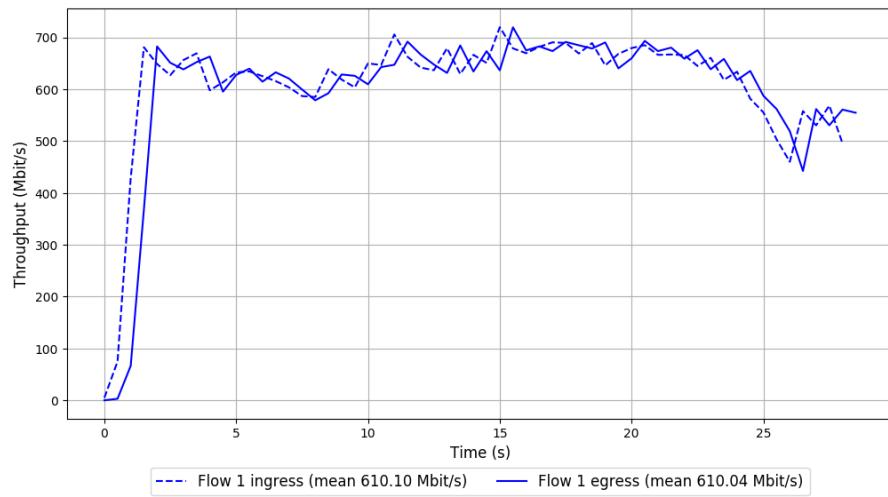


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-22 03:45:23
End at: 2019-01-22 03:45:53
Local clock offset: 0.027 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-01-22 07:26:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 610.04 Mbit/s
95th percentile per-packet one-way delay: 51.393 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 610.04 Mbit/s
95th percentile per-packet one-way delay: 51.393 ms
Loss rate: 0.00%
```

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

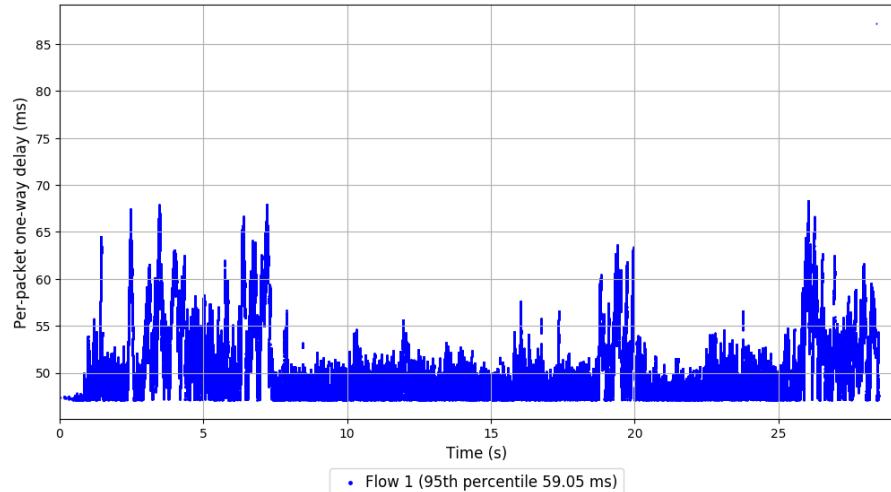
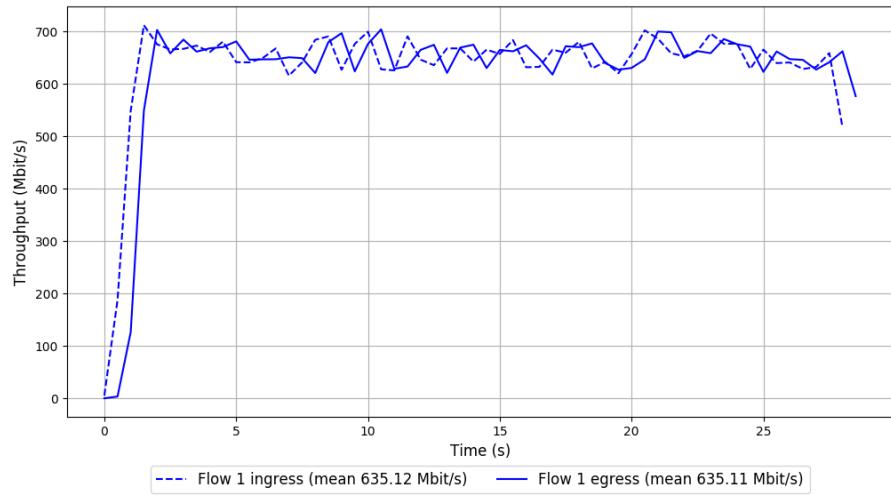


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 04:17:14
End at: 2019-01-22 04:17:44
Local clock offset: 0.05 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-01-22 07:30:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 635.11 Mbit/s
95th percentile per-packet one-way delay: 59.051 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 635.11 Mbit/s
95th percentile per-packet one-way delay: 59.051 ms
Loss rate: 0.00%
```

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

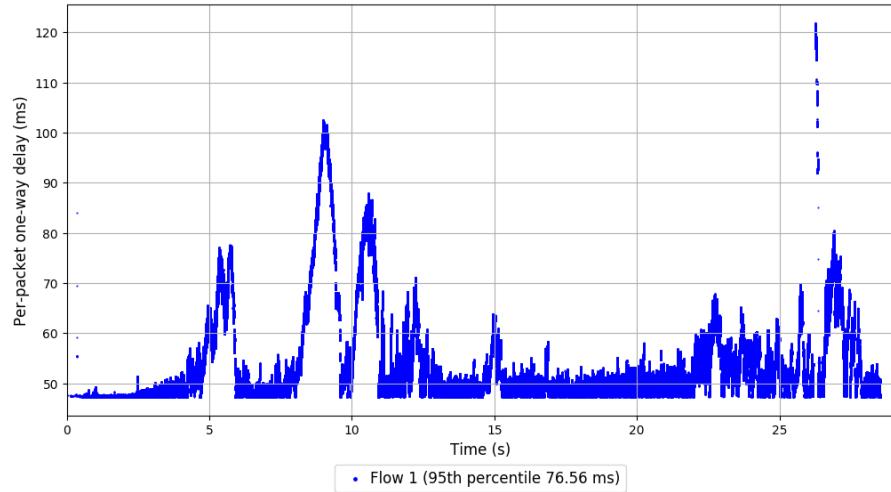
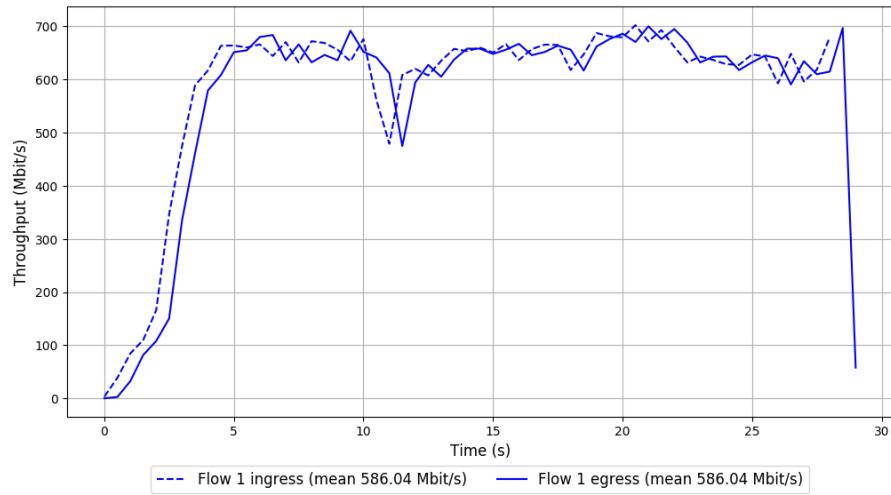


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 04:48:35
End at: 2019-01-22 04:49:05
Local clock offset: 0.042 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-01-22 07:30:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 586.04 Mbit/s
95th percentile per-packet one-way delay: 76.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 586.04 Mbit/s
95th percentile per-packet one-way delay: 76.559 ms
Loss rate: 0.00%
```

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

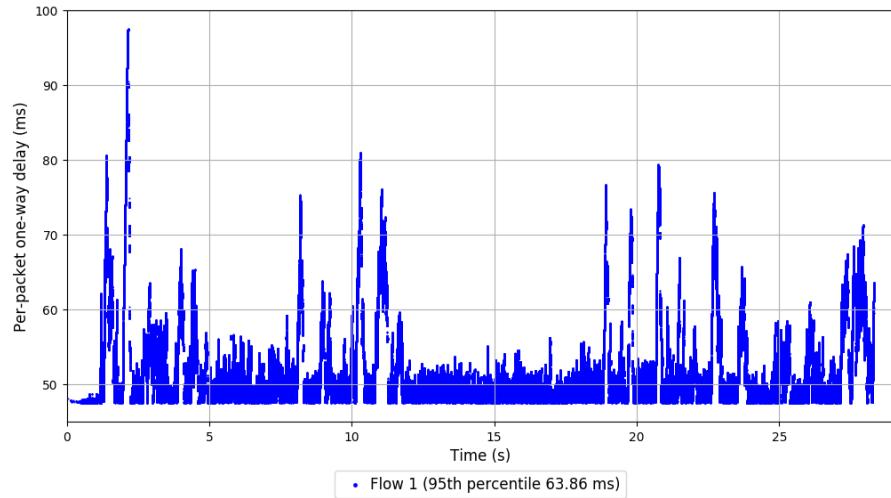
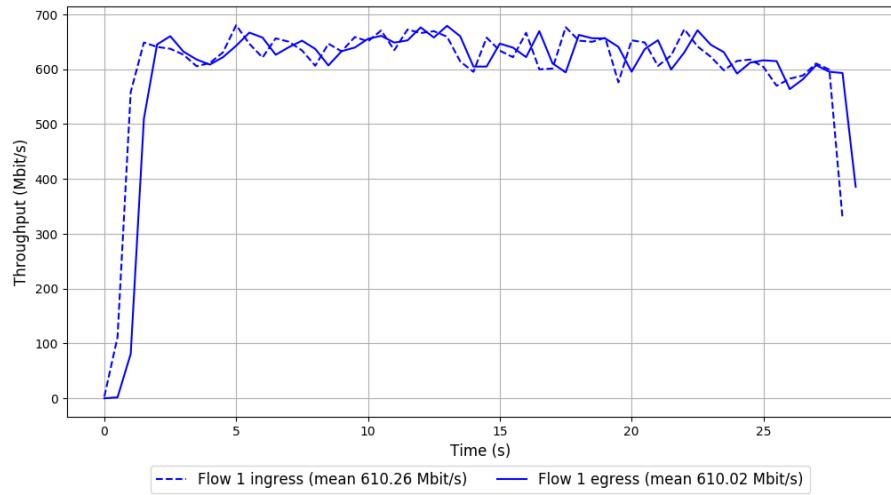


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 05:20:04
End at: 2019-01-22 05:20:34
Local clock offset: 0.003 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2019-01-22 07:33:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 610.02 Mbit/s
95th percentile per-packet one-way delay: 63.859 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 610.02 Mbit/s
95th percentile per-packet one-way delay: 63.859 ms
Loss rate: 0.04%
```

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

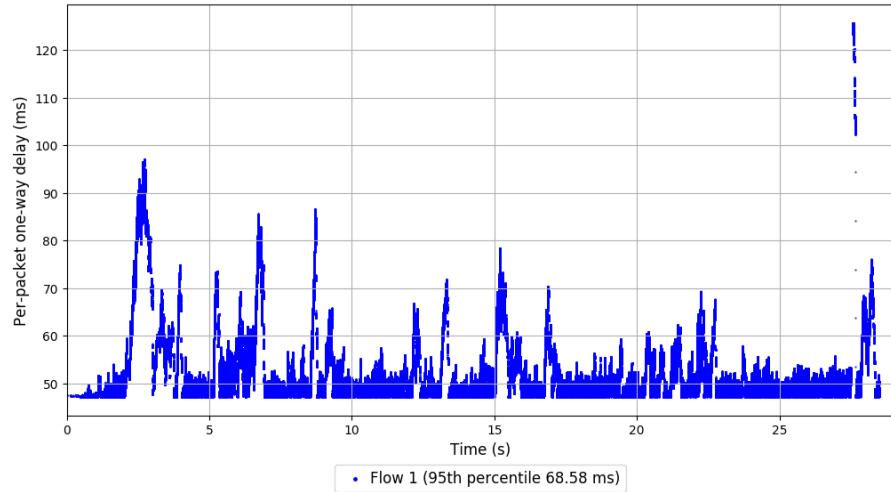
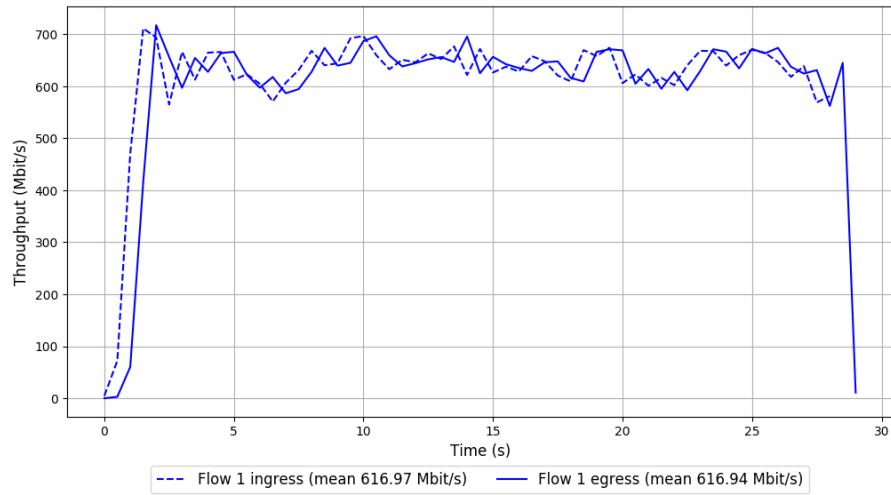


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 05:50:37
End at: 2019-01-22 05:51:07
Local clock offset: 0.134 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-01-22 07:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 616.94 Mbit/s
95th percentile per-packet one-way delay: 68.585 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 616.94 Mbit/s
95th percentile per-packet one-way delay: 68.585 ms
Loss rate: 0.01%
```

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



Run 1: Statistics of Indigo-MusesD

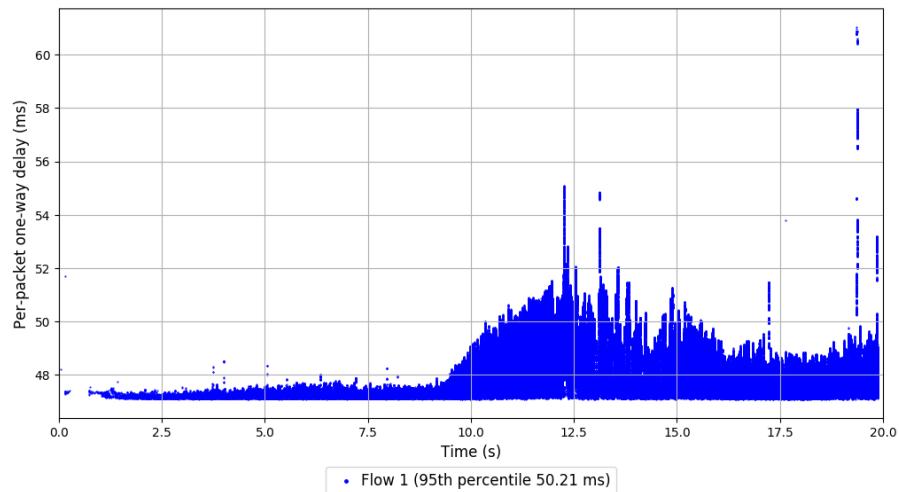
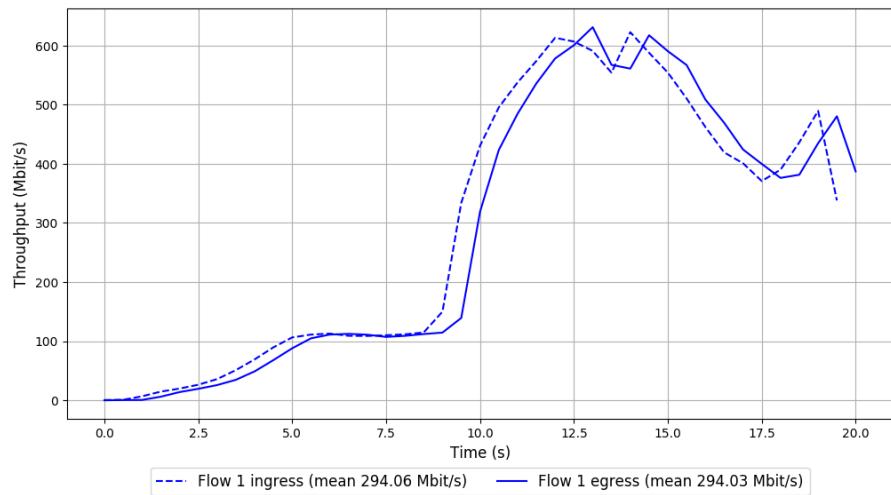
Start at: 2019-01-22 03:34:28

End at: 2019-01-22 03:34:58

Local clock offset: 0.249 ms

Remote clock offset: -0.088 ms

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

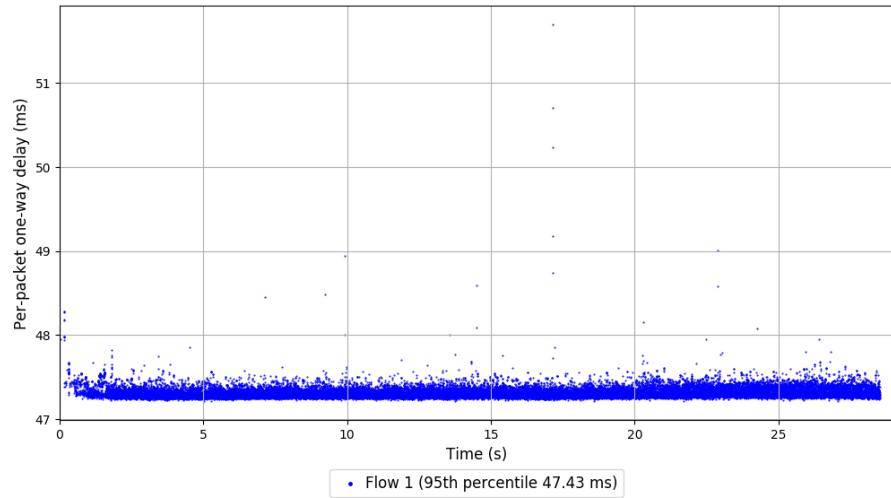
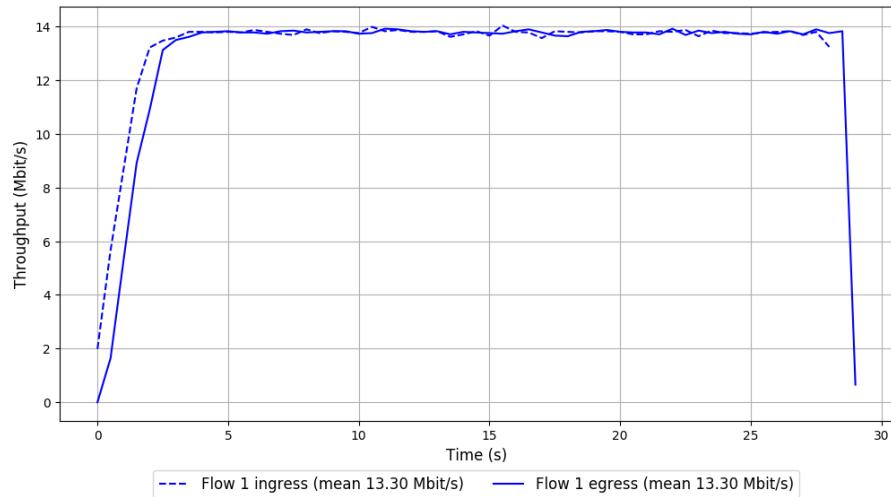


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 04:07:02
End at: 2019-01-22 04:07:32
Local clock offset: 0.093 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-01-22 07:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.30 Mbit/s
95th percentile per-packet one-way delay: 47.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.30 Mbit/s
95th percentile per-packet one-way delay: 47.429 ms
Loss rate: 0.00%
```

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

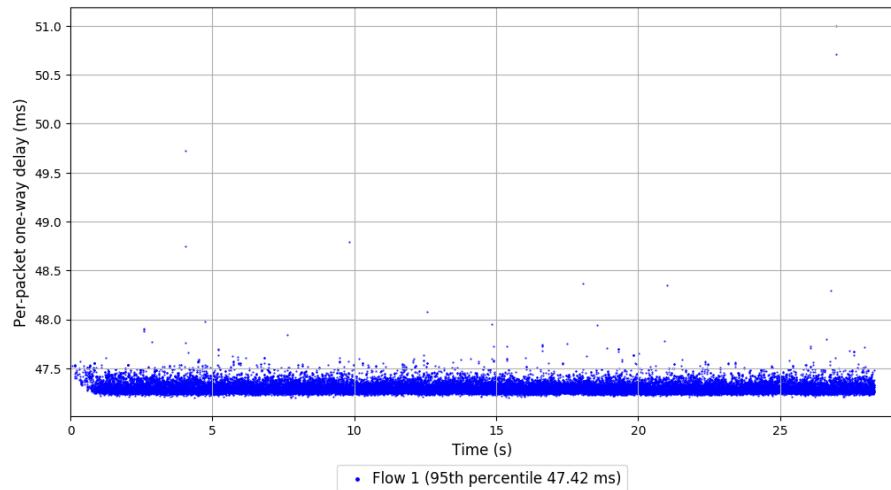
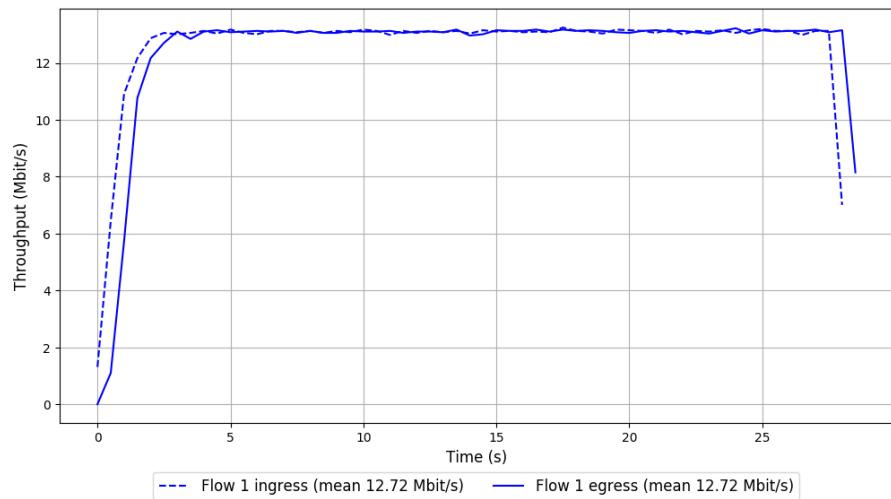


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 04:38:16
End at: 2019-01-22 04:38:46
Local clock offset: 0.038 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-01-22 07:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.72 Mbit/s
95th percentile per-packet one-way delay: 47.418 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.72 Mbit/s
95th percentile per-packet one-way delay: 47.418 ms
Loss rate: 0.00%
```

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

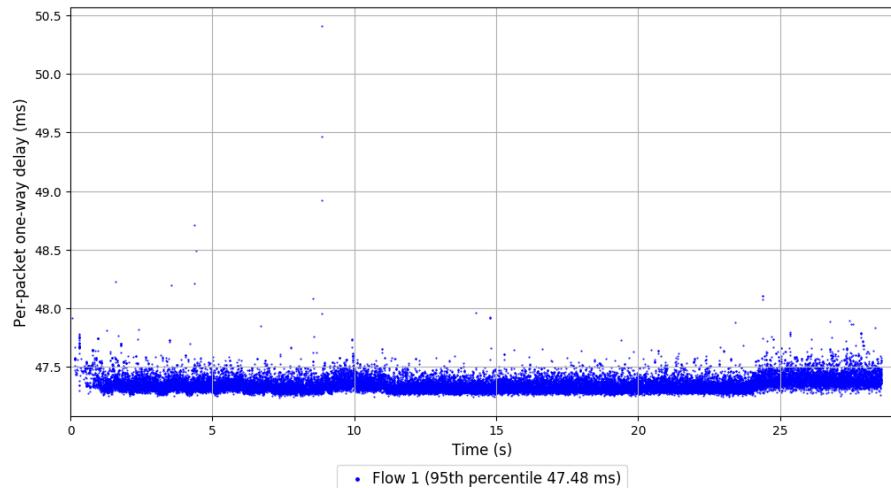
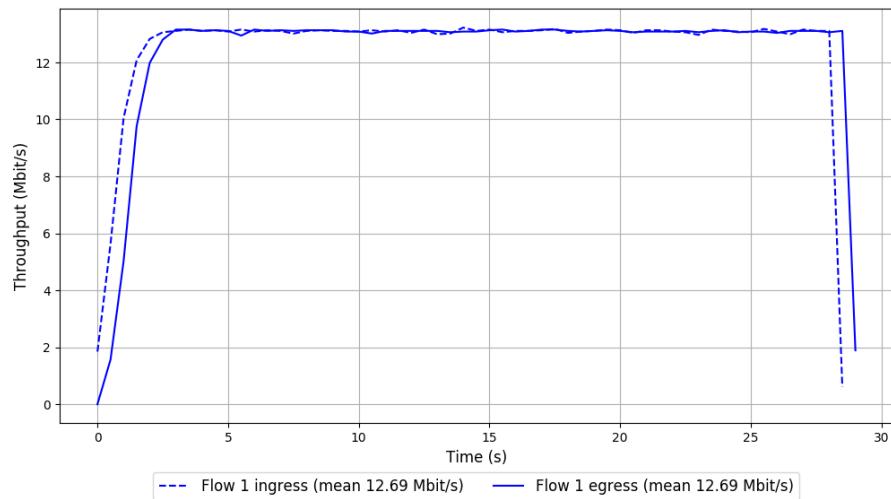


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 05:10:06
End at: 2019-01-22 05:10:36
Local clock offset: 0.025 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-01-22 07:35:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 47.481 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 47.481 ms
Loss rate: 0.00%
```

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

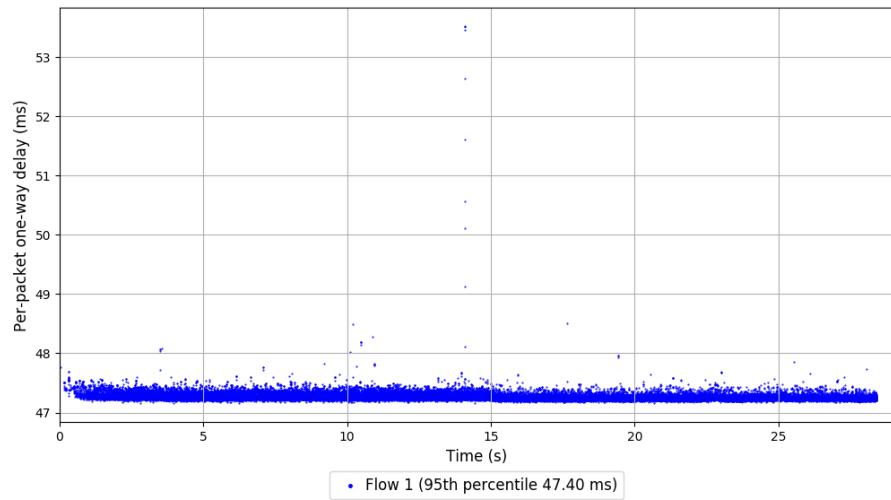
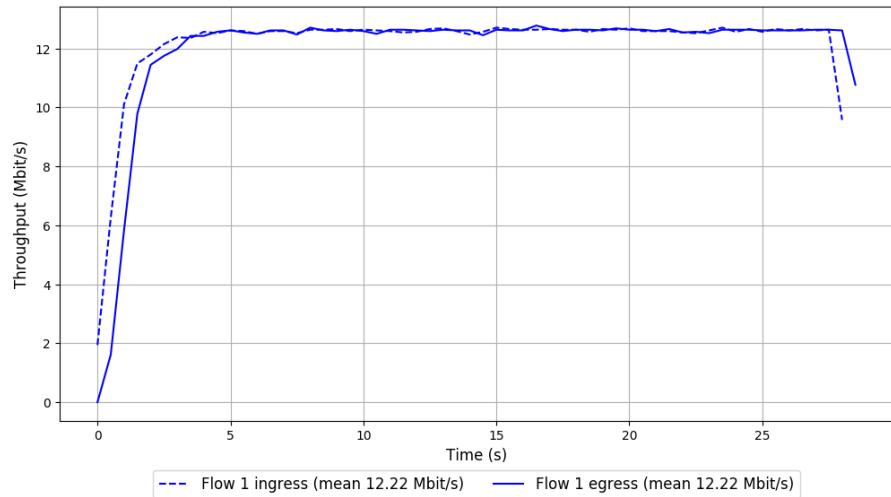


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 05:40:37
End at: 2019-01-22 05:41:07
Local clock offset: 0.05 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-01-22 07:35:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.22 Mbit/s
95th percentile per-packet one-way delay: 47.401 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.22 Mbit/s
95th percentile per-packet one-way delay: 47.401 ms
Loss rate: 0.00%
```

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

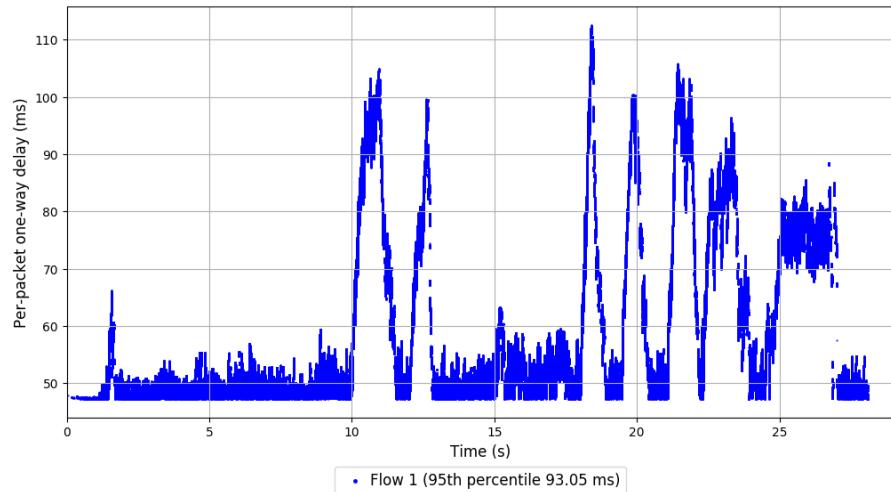
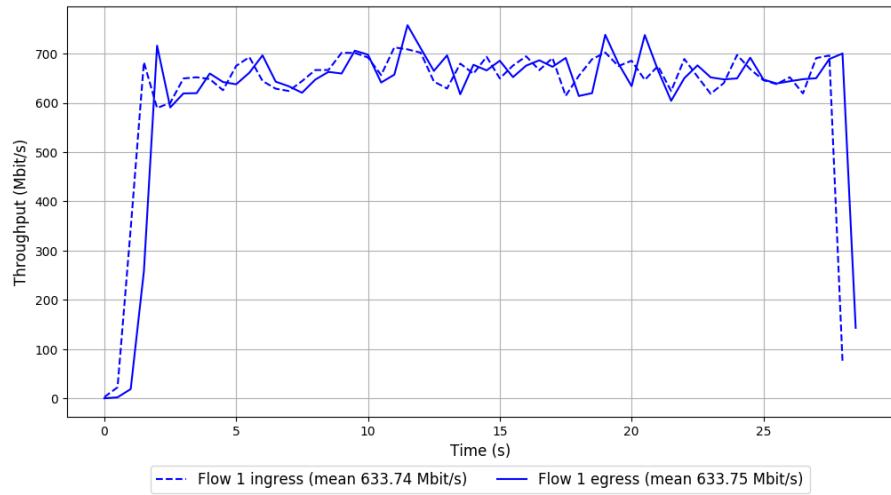


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 03:40:02
End at: 2019-01-22 03:40:32
Local clock offset: 0.048 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-01-22 07:38:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 633.75 Mbit/s
95th percentile per-packet one-way delay: 93.051 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 633.75 Mbit/s
95th percentile per-packet one-way delay: 93.051 ms
Loss rate: 0.00%
```

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

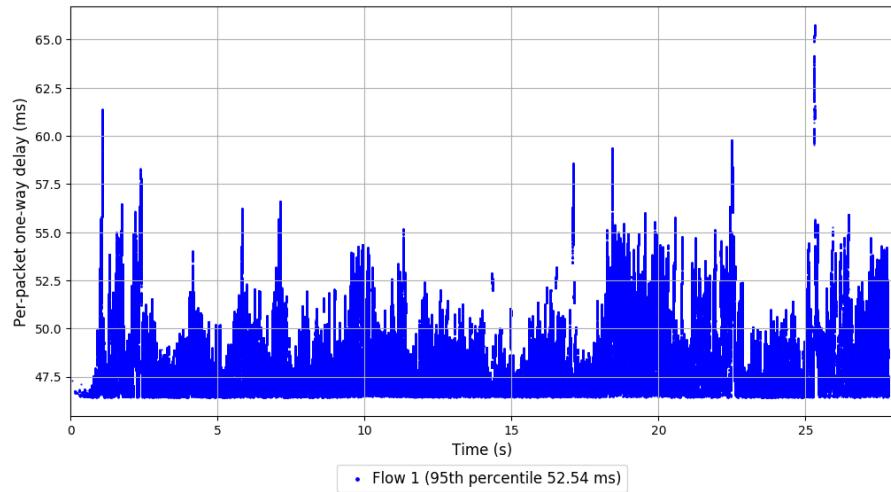
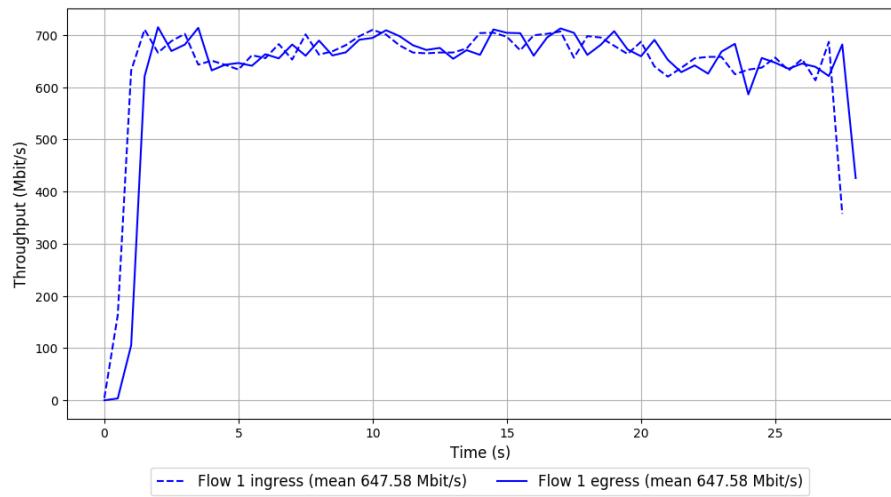


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 04:12:24
End at: 2019-01-22 04:12:54
Local clock offset: 0.041 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-01-22 07:38:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 647.58 Mbit/s
95th percentile per-packet one-way delay: 52.544 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 647.58 Mbit/s
95th percentile per-packet one-way delay: 52.544 ms
Loss rate: 0.00%
```

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

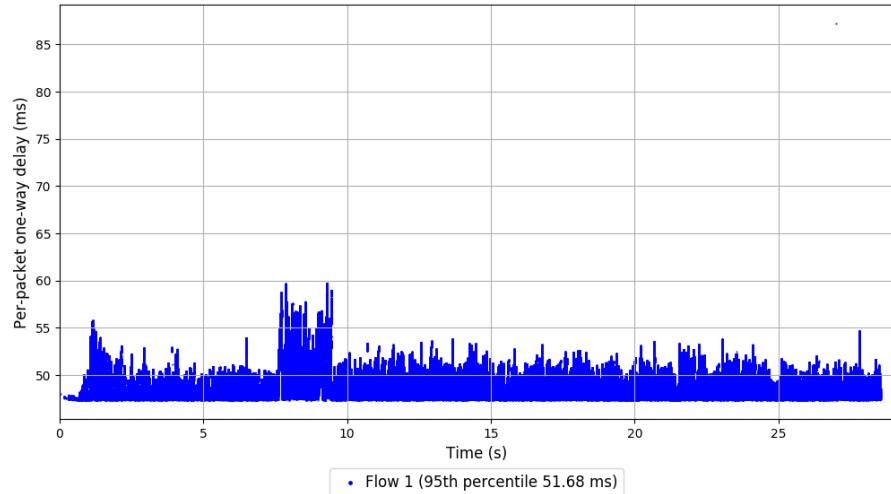
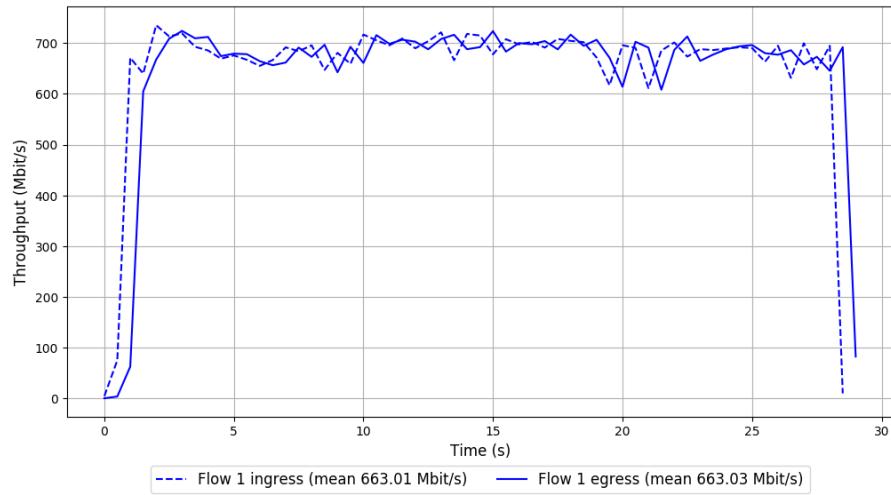


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 04:43:33
End at: 2019-01-22 04:44:03
Local clock offset: 0.045 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-01-22 07:39:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 663.03 Mbit/s
95th percentile per-packet one-way delay: 51.684 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 663.03 Mbit/s
95th percentile per-packet one-way delay: 51.684 ms
Loss rate: 0.00%
```

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

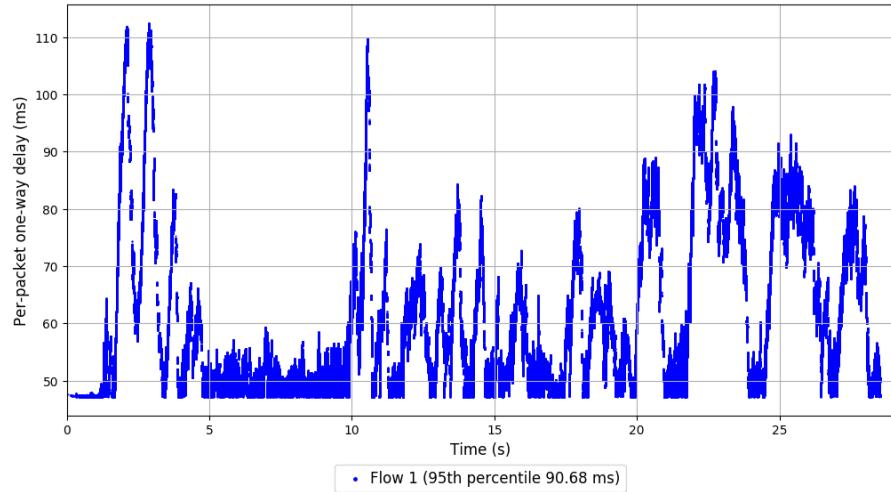
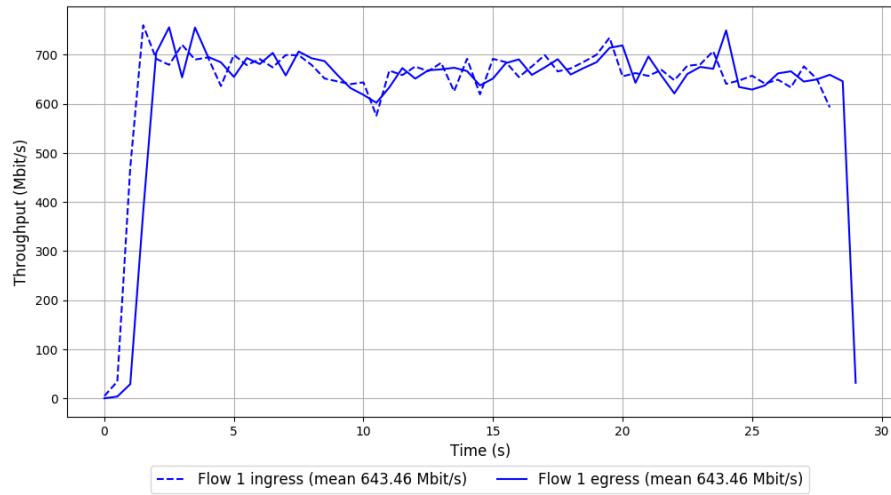


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 05:15:17
End at: 2019-01-22 05:15:47
Local clock offset: 0.167 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-01-22 07:40:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 643.46 Mbit/s
95th percentile per-packet one-way delay: 90.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 643.46 Mbit/s
95th percentile per-packet one-way delay: 90.676 ms
Loss rate: 0.00%
```

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

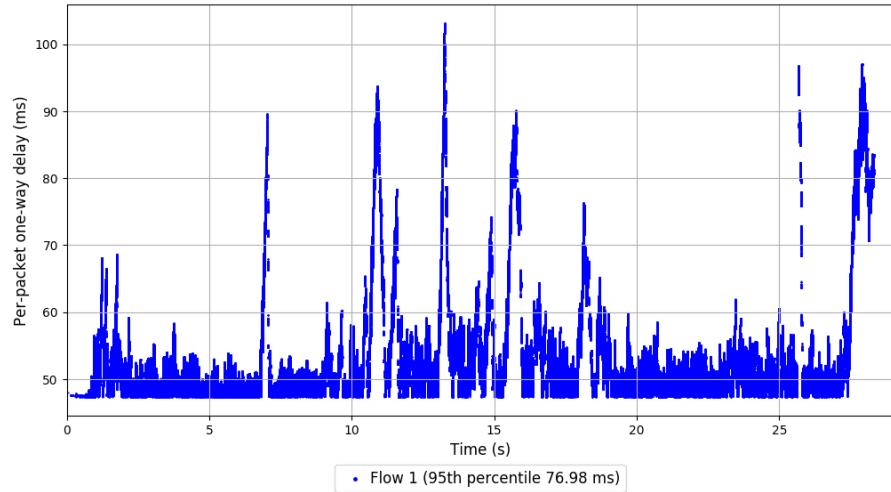
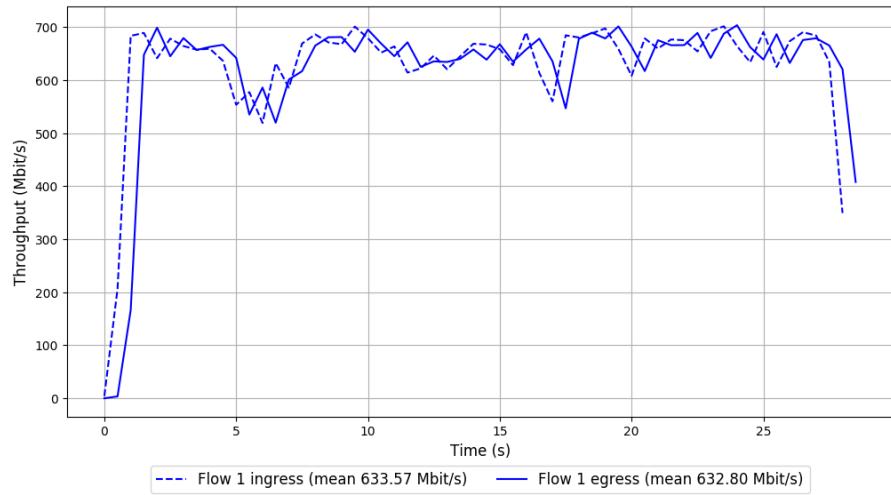


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 05:45:51
End at: 2019-01-22 05:46:21
Local clock offset: -0.031 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-01-22 07:41:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 632.80 Mbit/s
95th percentile per-packet one-way delay: 76.977 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 632.80 Mbit/s
95th percentile per-packet one-way delay: 76.977 ms
Loss rate: 0.13%
```

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

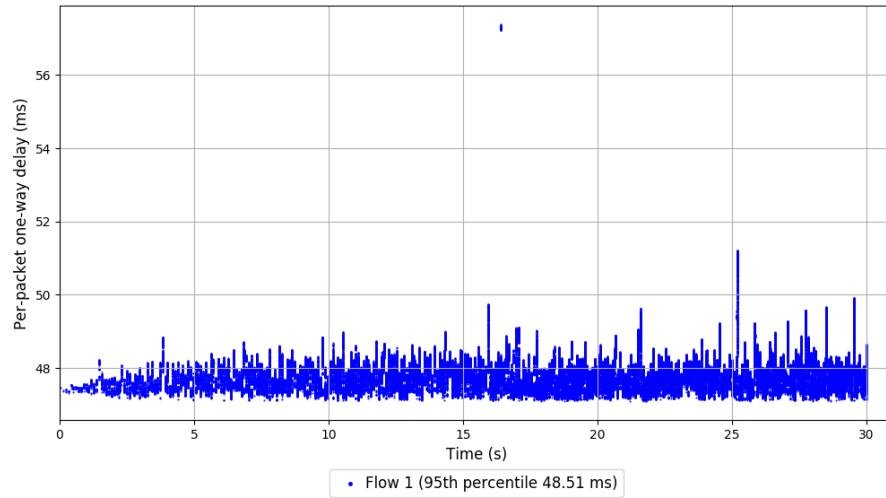
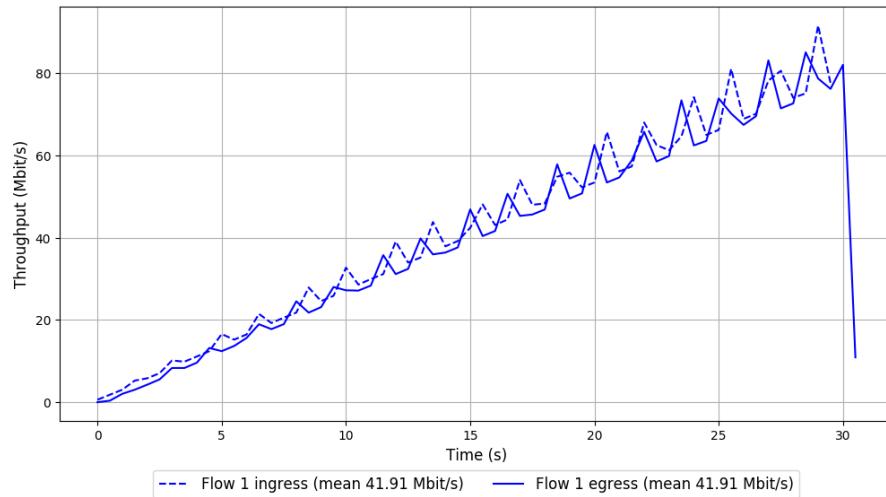


Run 1: Statistics of LEDBAT

```
Start at: 2019-01-22 03:53:30
End at: 2019-01-22 03:54:00
Local clock offset: 0.043 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-01-22 07:41:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.91 Mbit/s
95th percentile per-packet one-way delay: 48.510 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.91 Mbit/s
95th percentile per-packet one-way delay: 48.510 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

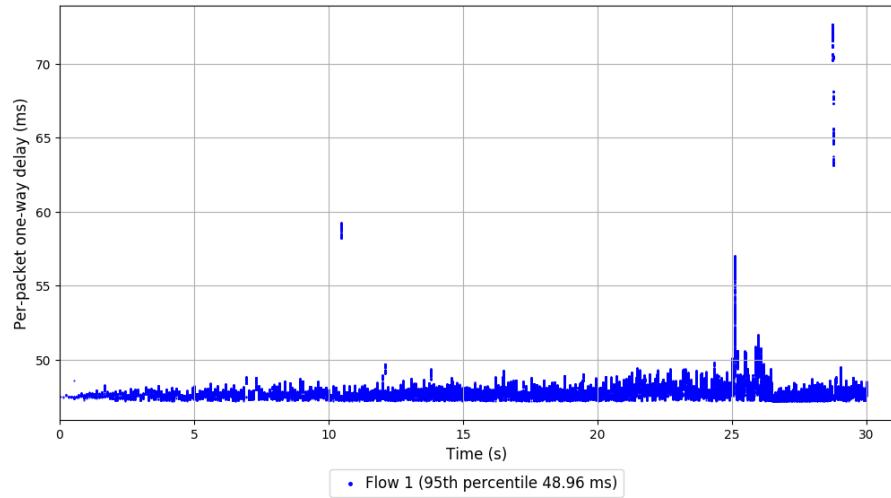
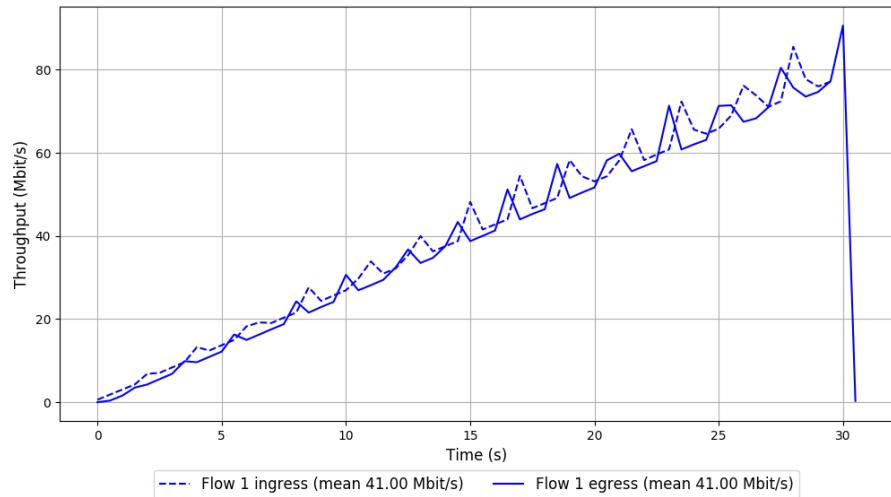


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-22 04:24:49
End at: 2019-01-22 04:25:19
Local clock offset: 0.019 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-01-22 07:41:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.00 Mbit/s
95th percentile per-packet one-way delay: 48.962 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.00 Mbit/s
95th percentile per-packet one-way delay: 48.962 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

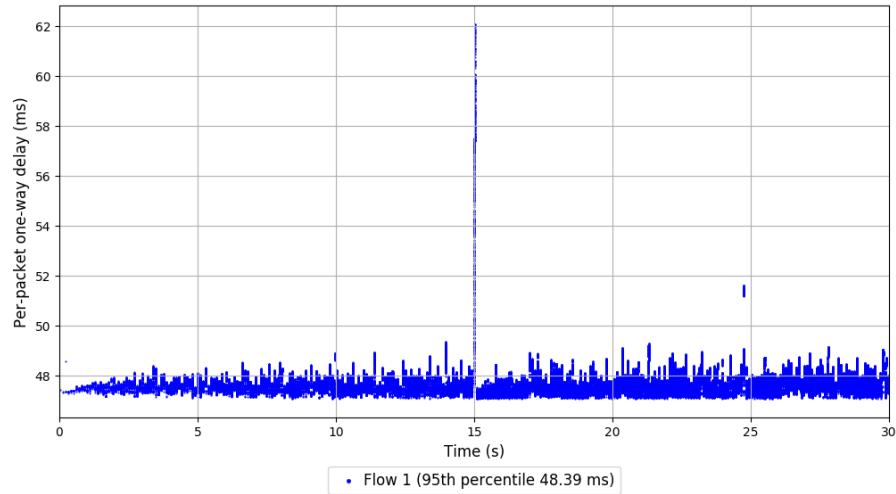
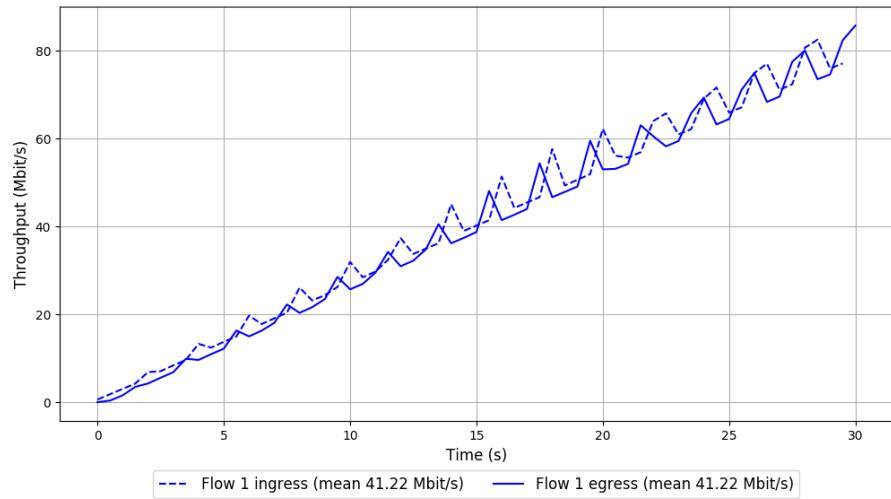


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-22 04:56:28
End at: 2019-01-22 04:56:58
Local clock offset: -0.052 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-01-22 07:41:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.22 Mbit/s
95th percentile per-packet one-way delay: 48.389 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.22 Mbit/s
95th percentile per-packet one-way delay: 48.389 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

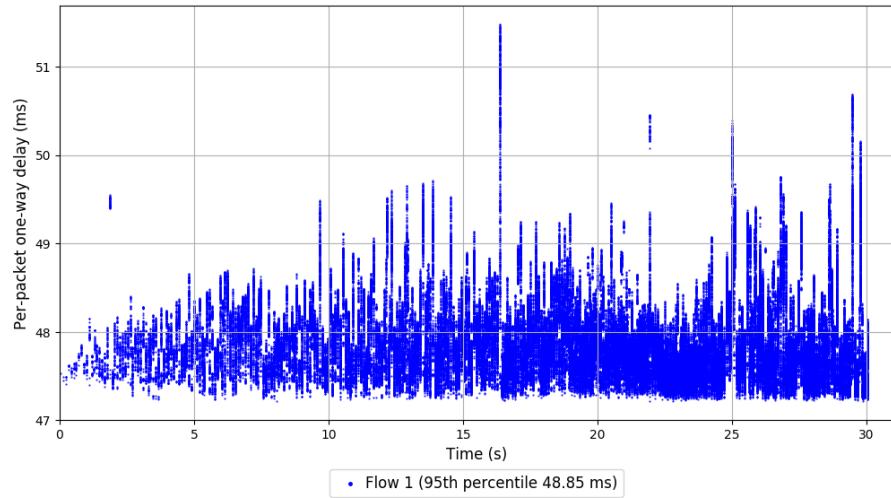
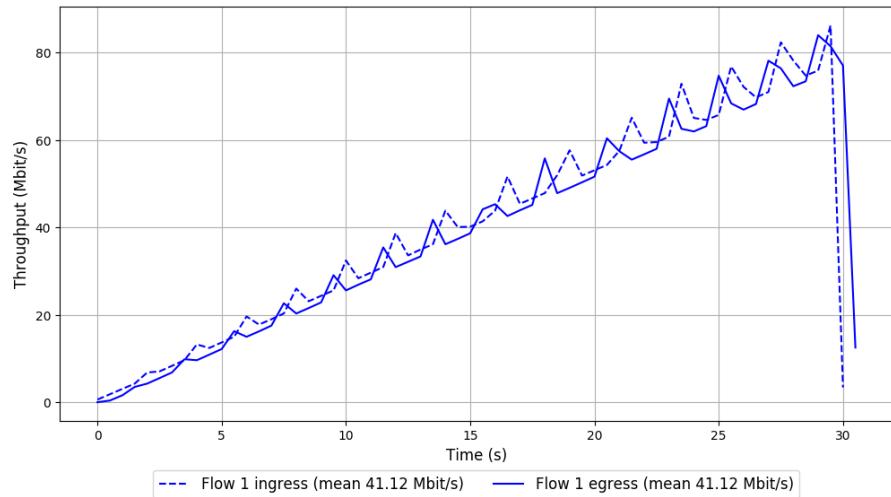


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-22 05:27:34
End at: 2019-01-22 05:28:04
Local clock offset: -0.008 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-01-22 07:41:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.12 Mbit/s
95th percentile per-packet one-way delay: 48.852 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.12 Mbit/s
95th percentile per-packet one-way delay: 48.852 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

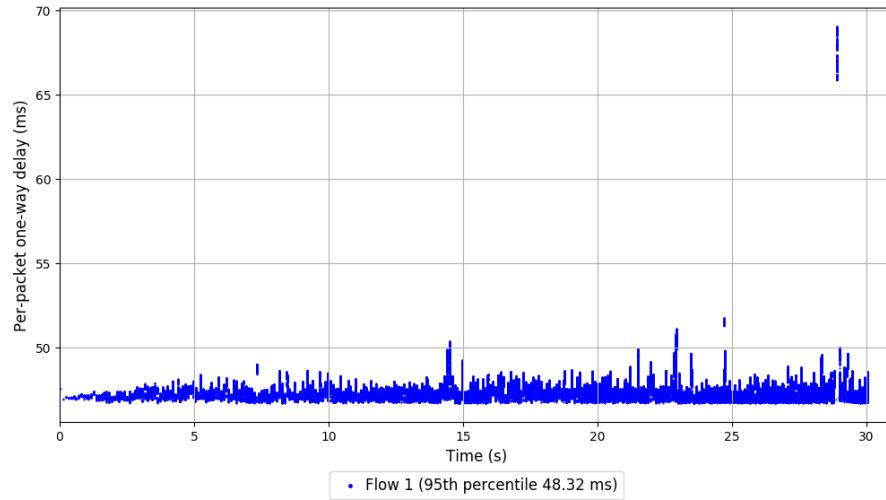
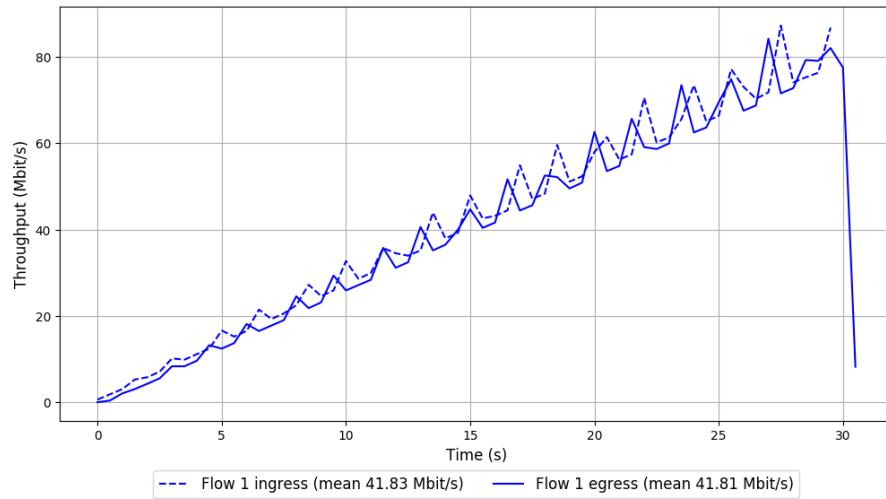


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-22 05:58:10
End at: 2019-01-22 05:58:40
Local clock offset: 0.301 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-01-22 07:41:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.81 Mbit/s
95th percentile per-packet one-way delay: 48.324 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 41.81 Mbit/s
95th percentile per-packet one-way delay: 48.324 ms
Loss rate: 0.04%
```

Run 5: Report of LEDBAT — Data Link

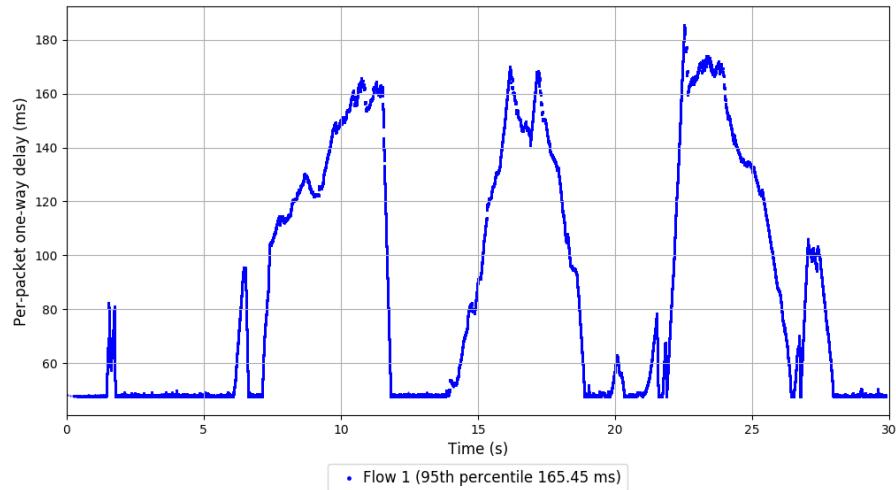
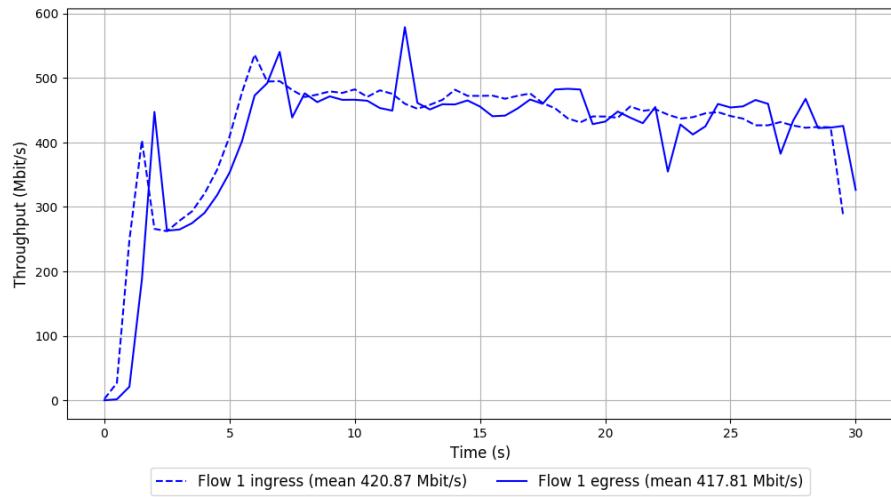


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-22 03:35:47
End at: 2019-01-22 03:36:17
Local clock offset: -0.287 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-01-22 07:52:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 417.81 Mbit/s
95th percentile per-packet one-way delay: 165.447 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 417.81 Mbit/s
95th percentile per-packet one-way delay: 165.447 ms
Loss rate: 0.73%
```

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

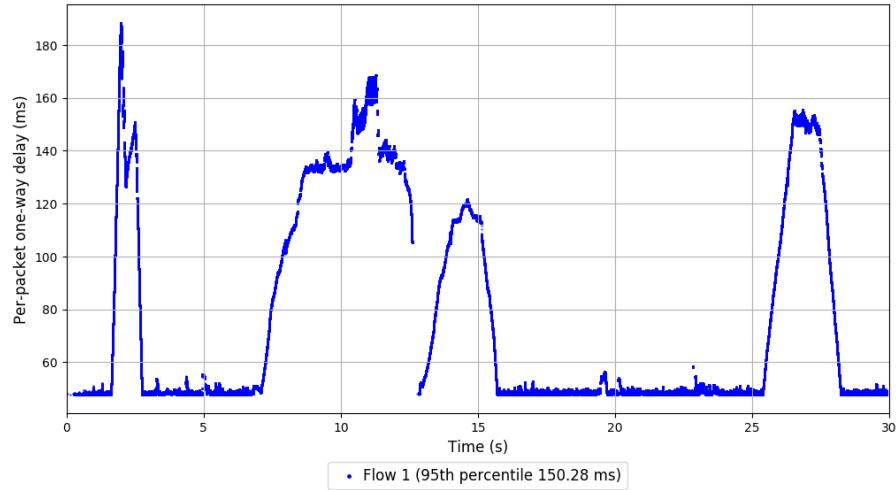
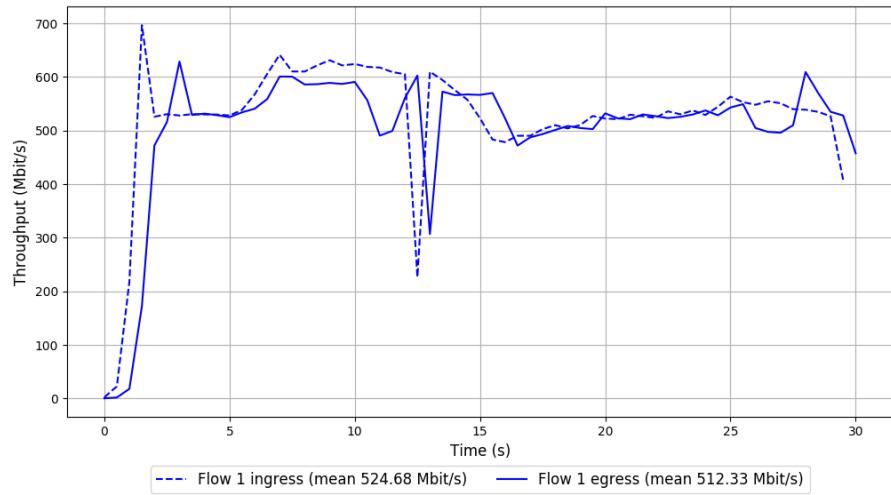


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-22 04:08:10
End at: 2019-01-22 04:08:40
Local clock offset: -0.32 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-01-22 07:56:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 512.33 Mbit/s
95th percentile per-packet one-way delay: 150.284 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 512.33 Mbit/s
95th percentile per-packet one-way delay: 150.284 ms
Loss rate: 2.36%
```

Run 2: Report of PCC-Allegro — Data Link

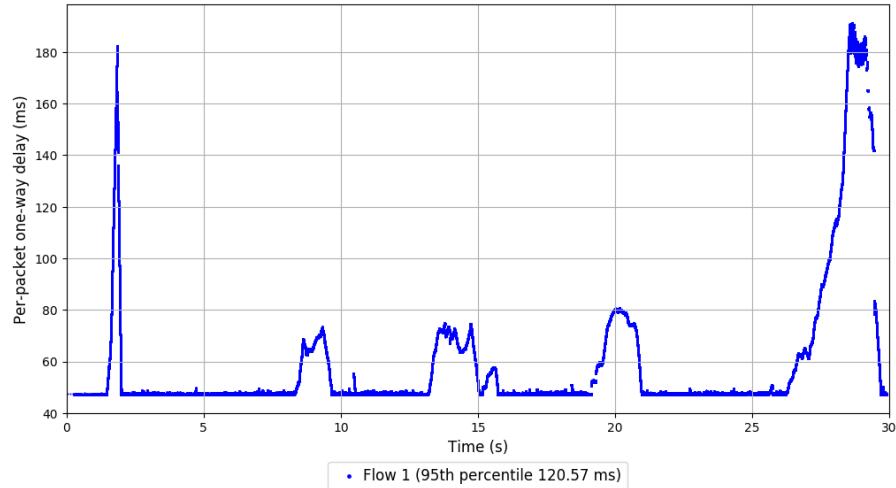
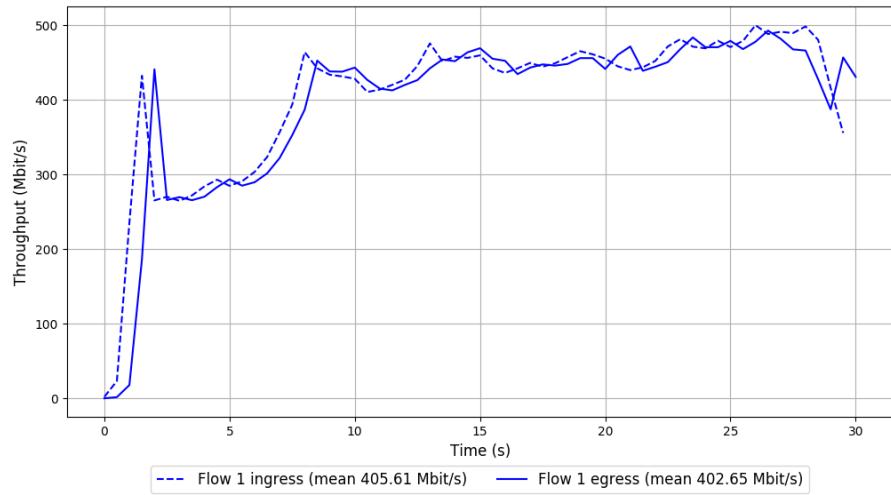


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-22 04:39:24
End at: 2019-01-22 04:39:54
Local clock offset: 0.066 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-01-22 07:56:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 402.65 Mbit/s
95th percentile per-packet one-way delay: 120.568 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 402.65 Mbit/s
95th percentile per-packet one-way delay: 120.568 ms
Loss rate: 0.73%
```

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

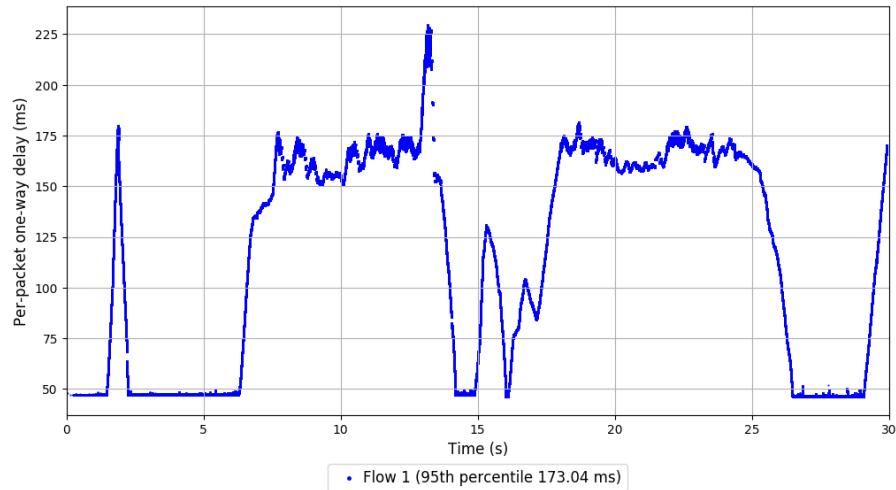
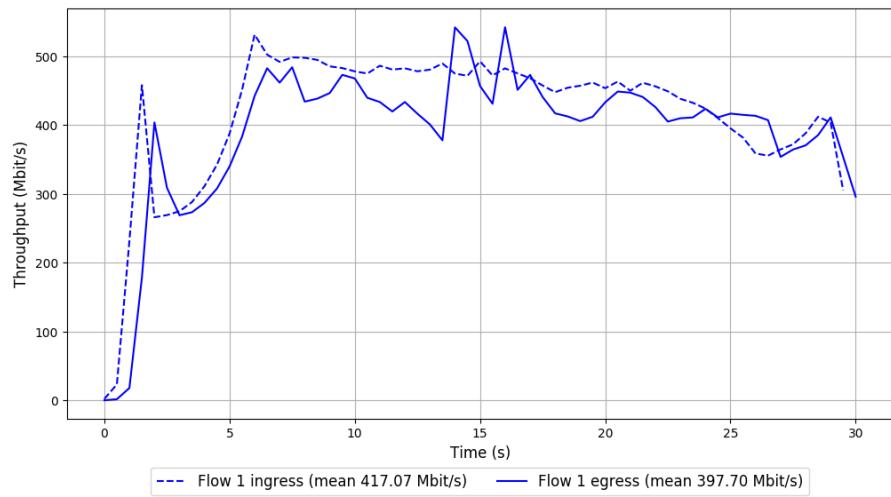


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-22 05:11:14
End at: 2019-01-22 05:11:44
Local clock offset: 0.151 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-01-22 07:56:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 397.70 Mbit/s
95th percentile per-packet one-way delay: 173.037 ms
Loss rate: 4.65%
-- Flow 1:
Average throughput: 397.70 Mbit/s
95th percentile per-packet one-way delay: 173.037 ms
Loss rate: 4.65%
```

Run 4: Report of PCC-Allegro — Data Link

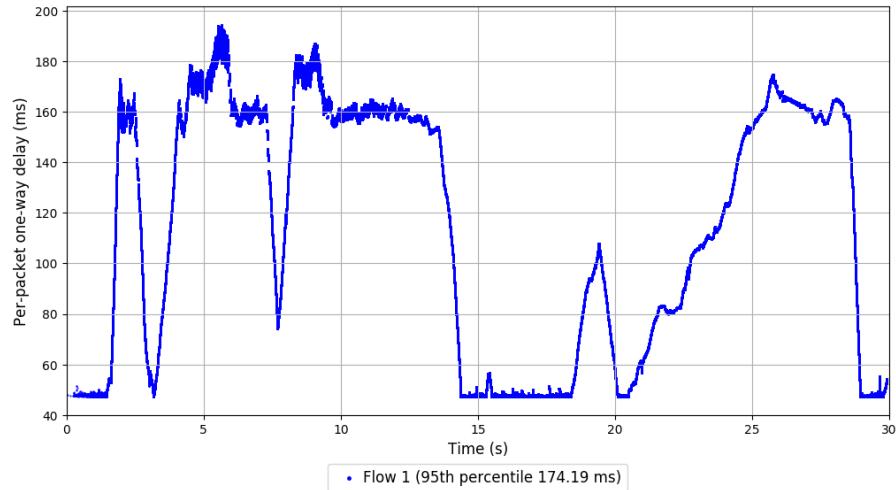
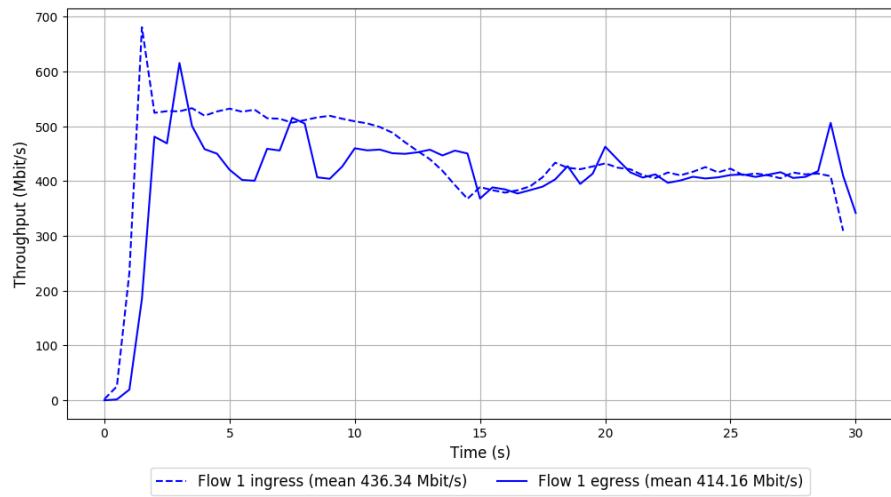


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-22 05:41:45
End at: 2019-01-22 05:42:15
Local clock offset: -0.005 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-01-22 07:56:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 414.16 Mbit/s
95th percentile per-packet one-way delay: 174.192 ms
Loss rate: 5.09%
-- Flow 1:
Average throughput: 414.16 Mbit/s
95th percentile per-packet one-way delay: 174.192 ms
Loss rate: 5.09%
```

Run 5: Report of PCC-Allegro — Data Link

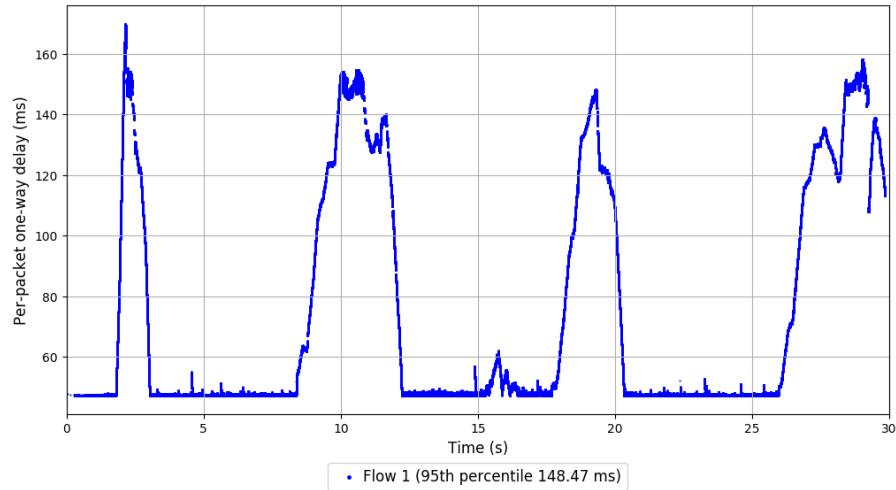
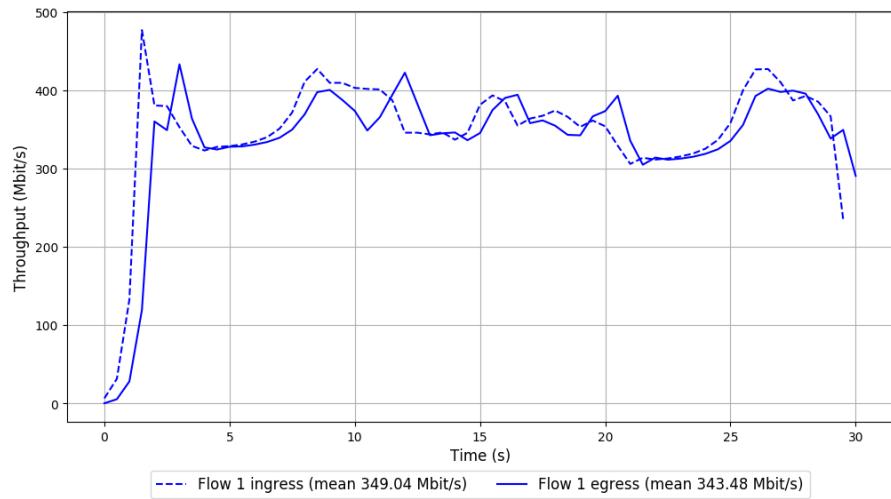


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-22 03:59:29
End at: 2019-01-22 03:59:59
Local clock offset: -0.001 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-01-22 07:56:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.48 Mbit/s
95th percentile per-packet one-way delay: 148.467 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 343.48 Mbit/s
95th percentile per-packet one-way delay: 148.467 ms
Loss rate: 1.60%
```

Run 1: Report of PCC-Expr — Data Link

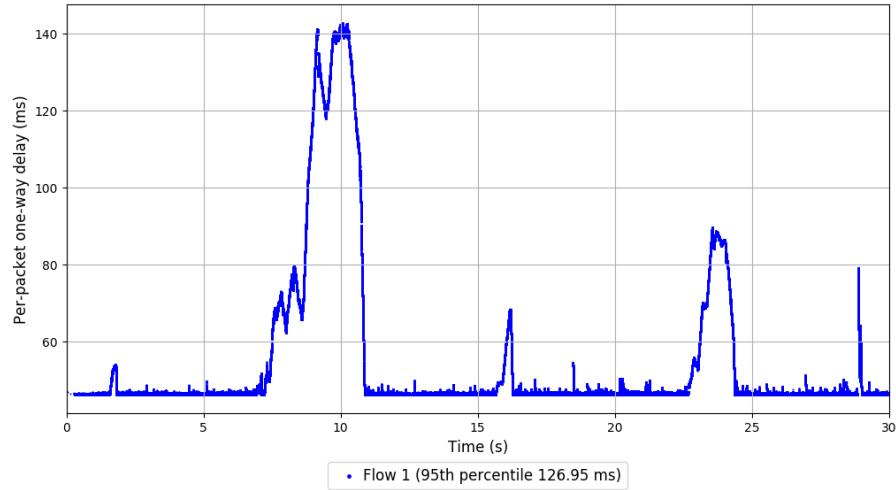
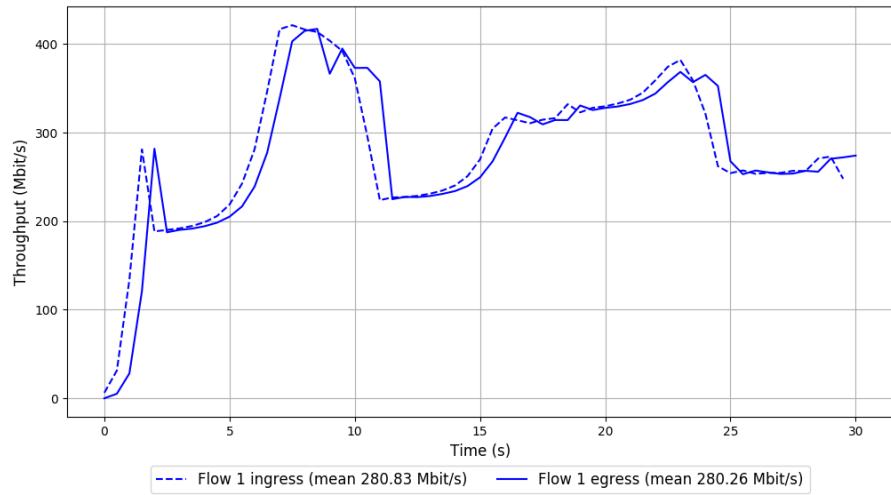


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-22 04:30:44
End at: 2019-01-22 04:31:14
Local clock offset: 0.027 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-01-22 07:56:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 280.26 Mbit/s
95th percentile per-packet one-way delay: 126.952 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 280.26 Mbit/s
95th percentile per-packet one-way delay: 126.952 ms
Loss rate: 0.21%
```

Run 2: Report of PCC-Expr — Data Link

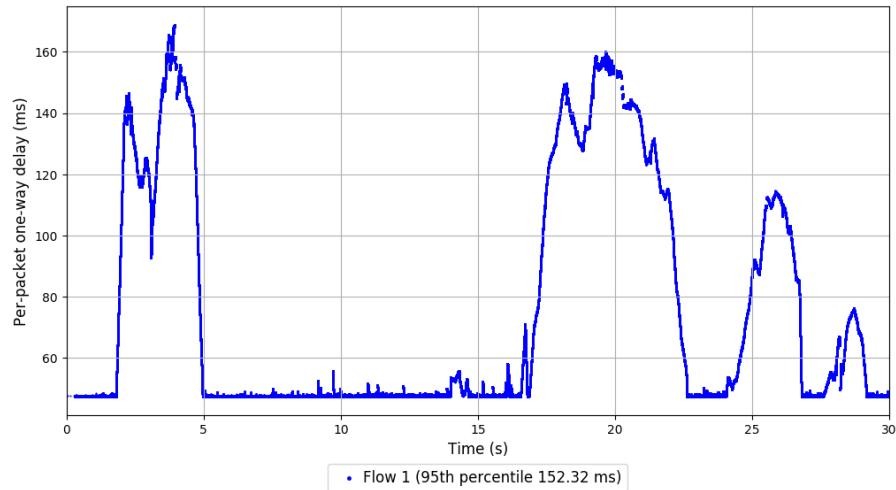
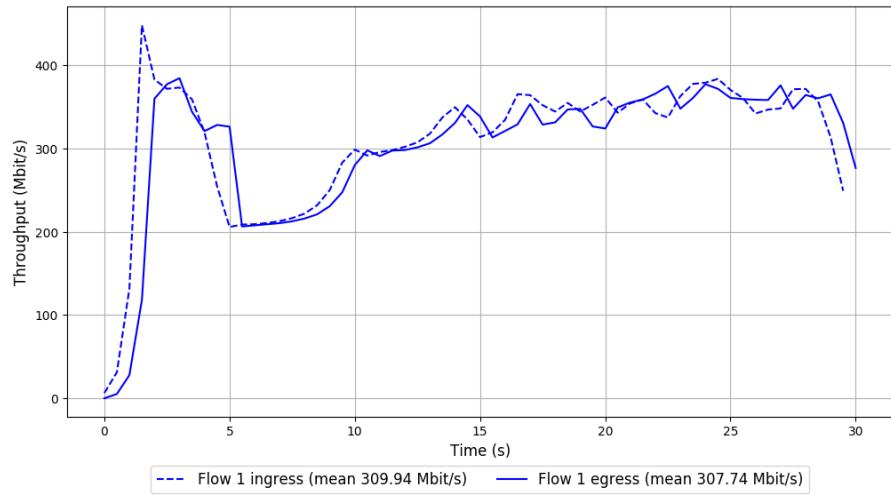


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-22 05:02:22
End at: 2019-01-22 05:02:52
Local clock offset: 0.008 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-01-22 07:56:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 307.74 Mbit/s
95th percentile per-packet one-way delay: 152.325 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 307.74 Mbit/s
95th percentile per-packet one-way delay: 152.325 ms
Loss rate: 0.71%
```

Run 3: Report of PCC-Expr — Data Link

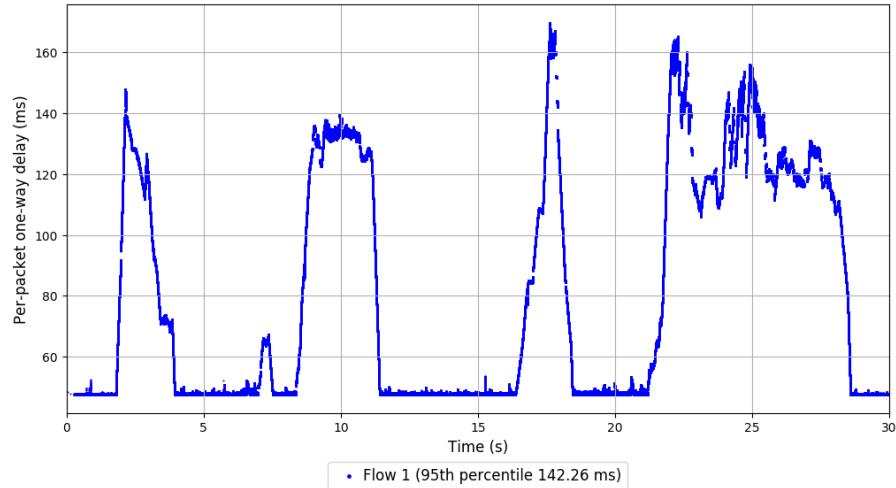
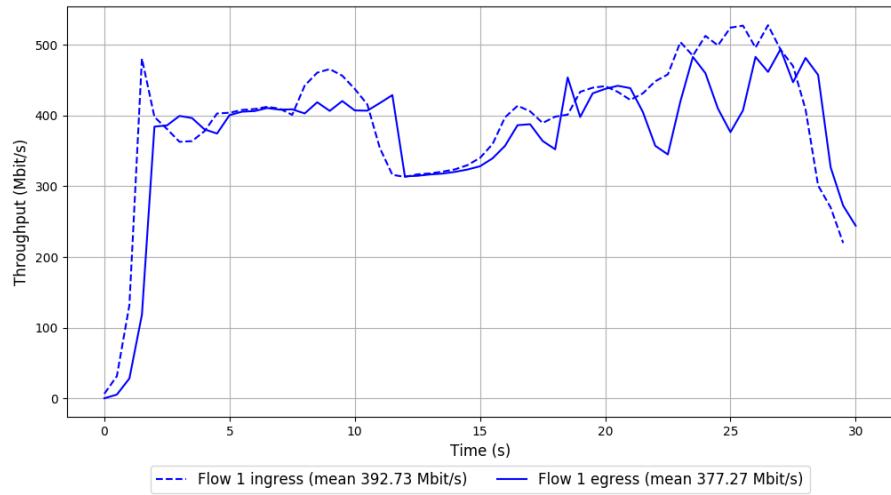


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-22 05:33:15
End at: 2019-01-22 05:33:45
Local clock offset: -0.257 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-01-22 08:05:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 377.27 Mbit/s
95th percentile per-packet one-way delay: 142.256 ms
Loss rate: 3.94%
-- Flow 1:
Average throughput: 377.27 Mbit/s
95th percentile per-packet one-way delay: 142.256 ms
Loss rate: 3.94%
```

Run 4: Report of PCC-Expr — Data Link

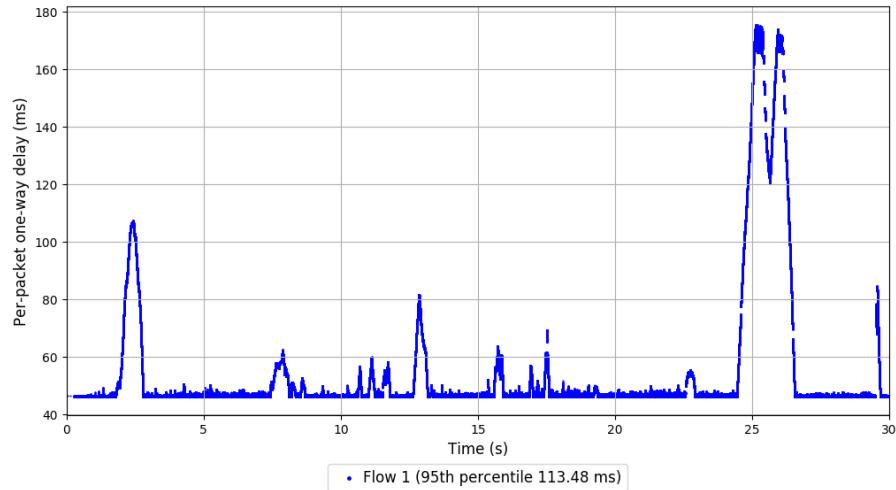
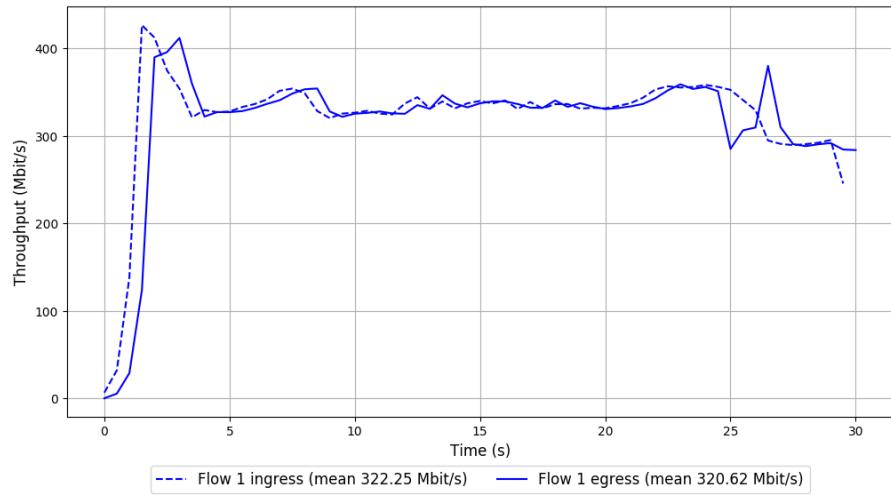


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-22 06:03:51
End at: 2019-01-22 06:04:21
Local clock offset: 0.01 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-01-22 08:05:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 320.62 Mbit/s
95th percentile per-packet one-way delay: 113.482 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 320.62 Mbit/s
95th percentile per-packet one-way delay: 113.482 ms
Loss rate: 0.51%
```

Run 5: Report of PCC-Expr — Data Link

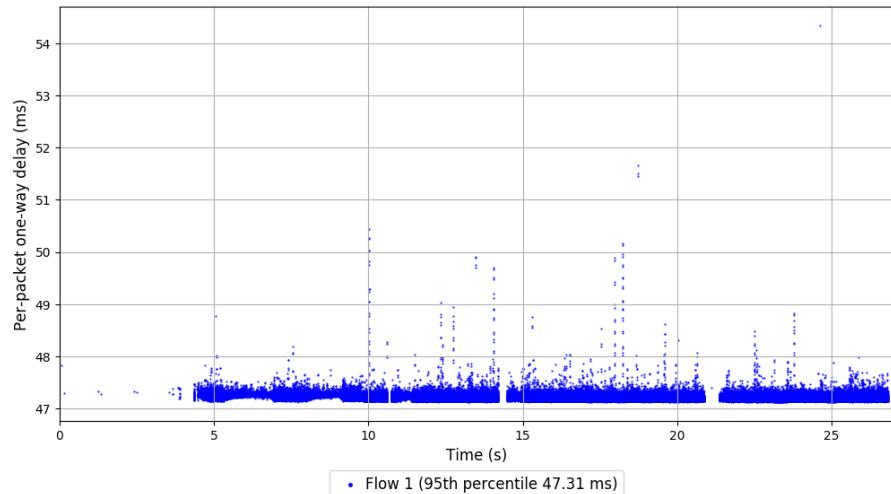
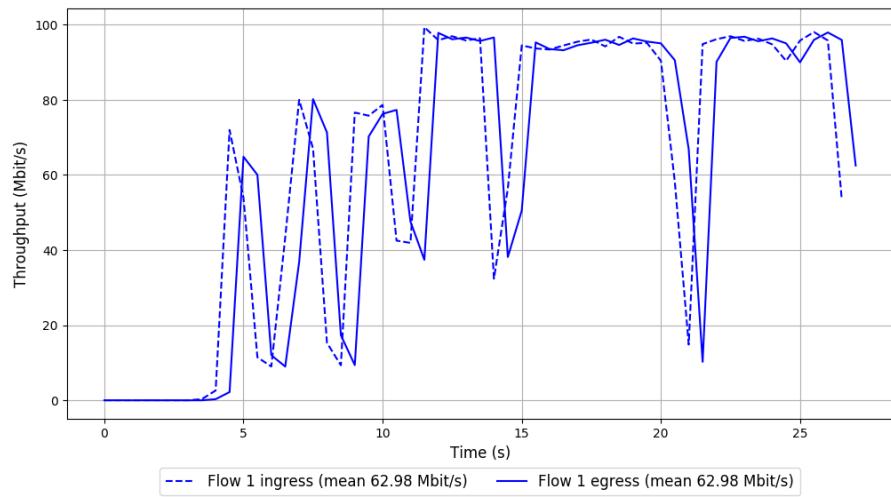


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-01-22 03:50:48
End at: 2019-01-22 03:51:18
Local clock offset: 0.198 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-01-22 08:05:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.98 Mbit/s
95th percentile per-packet one-way delay: 47.313 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.98 Mbit/s
95th percentile per-packet one-way delay: 47.313 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link

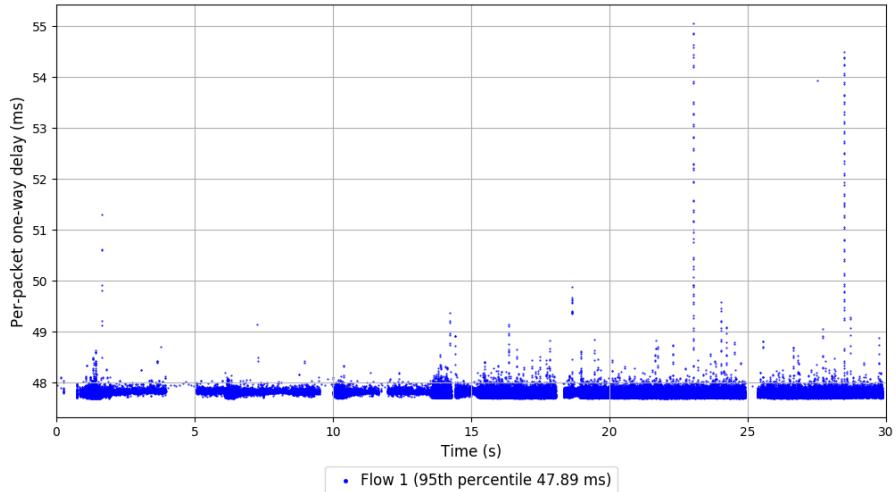
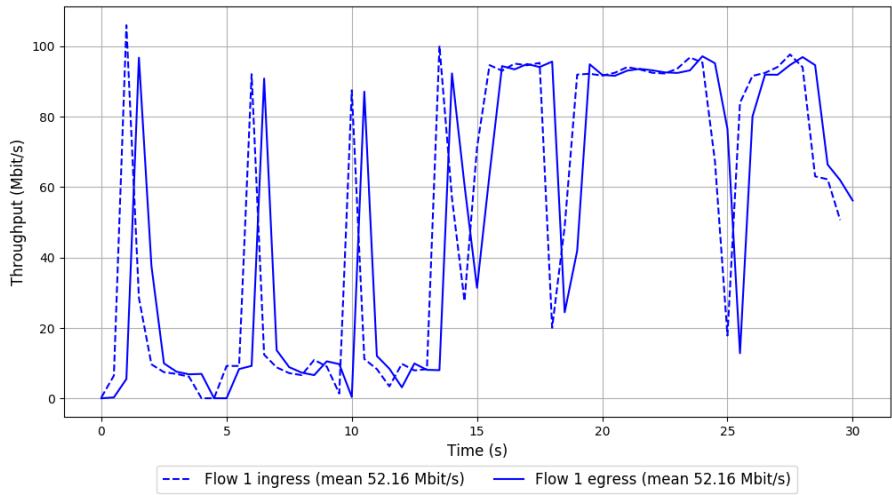


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-22 04:22:13
End at: 2019-01-22 04:22:43
Local clock offset: -0.346 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-01-22 08:05:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.16 Mbit/s
95th percentile per-packet one-way delay: 47.888 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.16 Mbit/s
95th percentile per-packet one-way delay: 47.888 ms
Loss rate: 0.00%
```

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

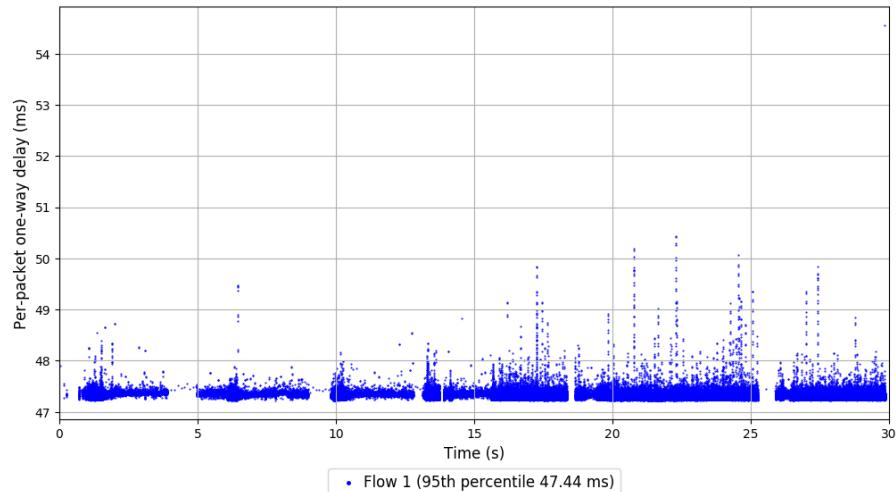
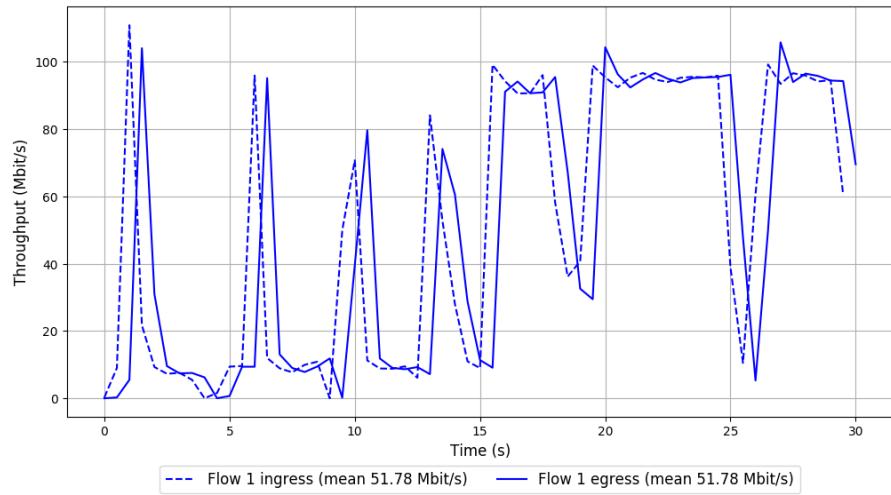


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-22 04:53:44
End at: 2019-01-22 04:54:14
Local clock offset: 0.001 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.78 Mbit/s
95th percentile per-packet one-way delay: 47.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.78 Mbit/s
95th percentile per-packet one-way delay: 47.435 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

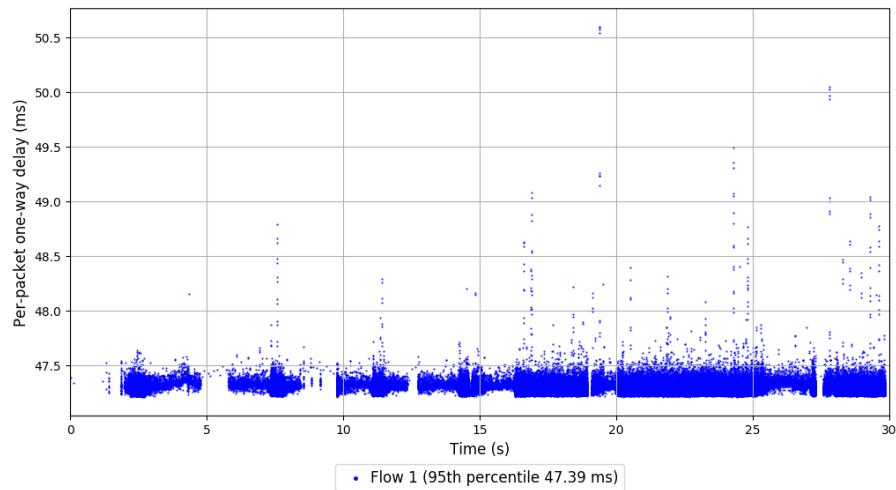
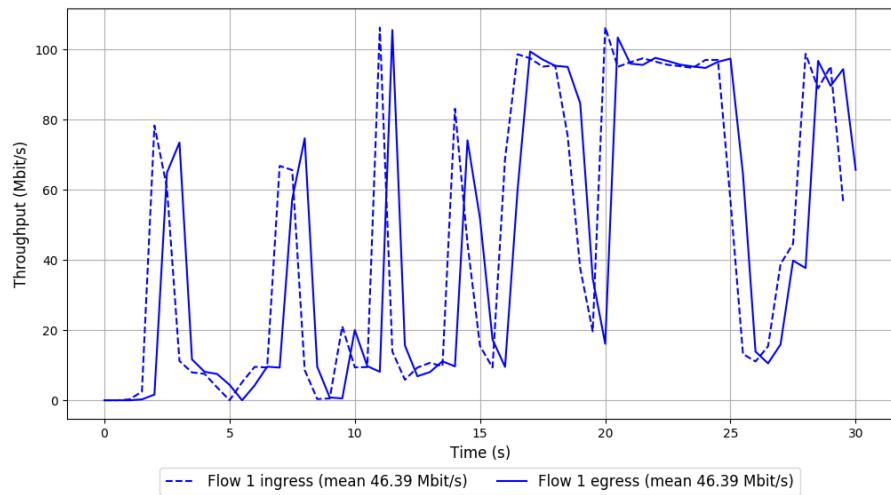


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-22 05:24:57
End at: 2019-01-22 05:25:27
Local clock offset: -0.018 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.39 Mbit/s
95th percentile per-packet one-way delay: 47.390 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.39 Mbit/s
95th percentile per-packet one-way delay: 47.390 ms
Loss rate: 0.00%
```

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

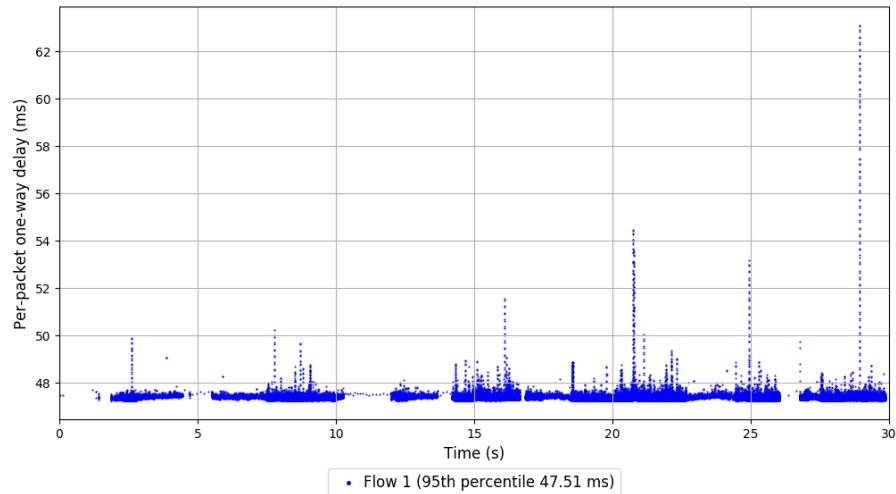
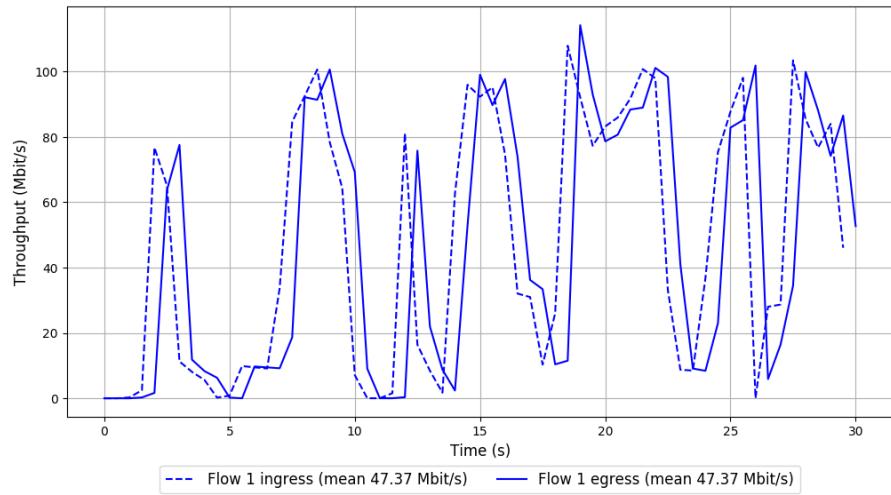


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-22 05:55:32
End at: 2019-01-22 05:56:02
Local clock offset: -0.032 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.37 Mbit/s
95th percentile per-packet one-way delay: 47.511 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.37 Mbit/s
95th percentile per-packet one-way delay: 47.511 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

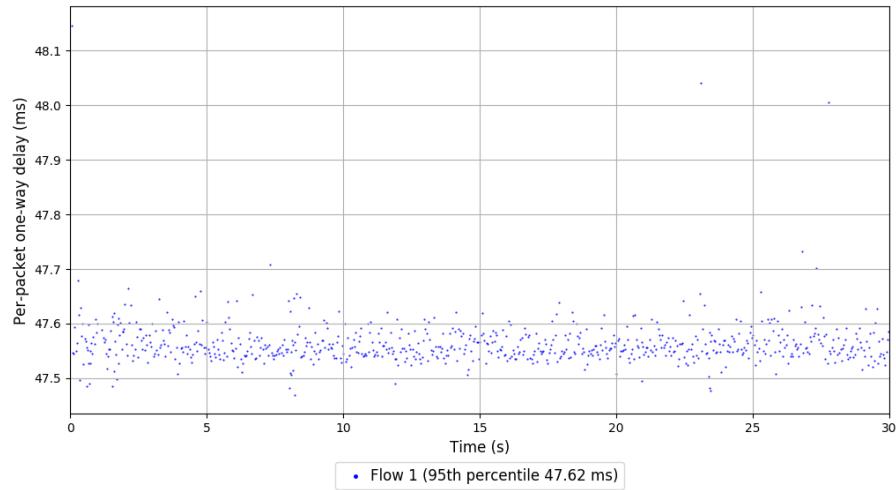
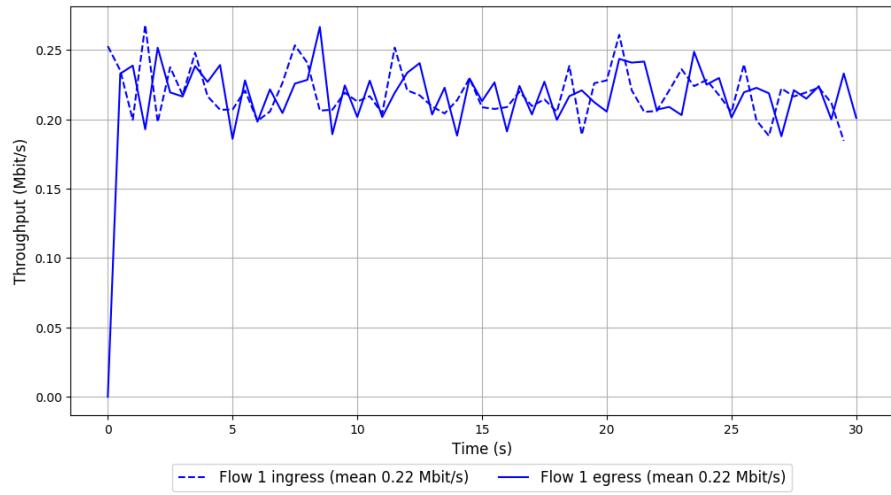


Run 1: Statistics of SCReAM

```
Start at: 2019-01-22 03:37:28
End at: 2019-01-22 03:37:58
Local clock offset: -0.023 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.620 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.620 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

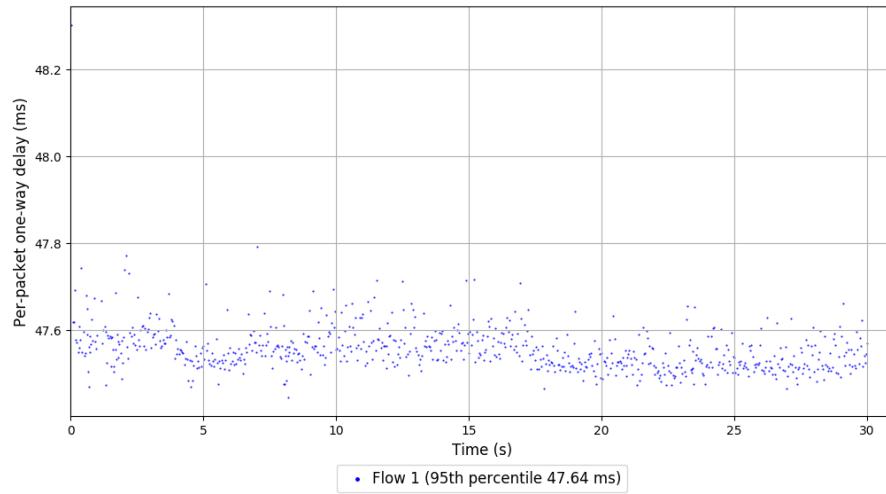
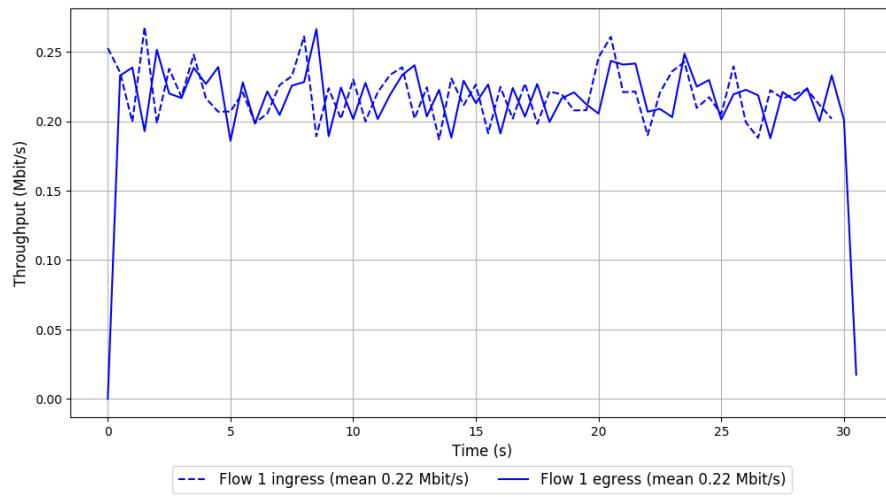


Run 2: Statistics of SCReAM

```
Start at: 2019-01-22 04:09:54
End at: 2019-01-22 04:10:24
Local clock offset: 0.035 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.644 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.644 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

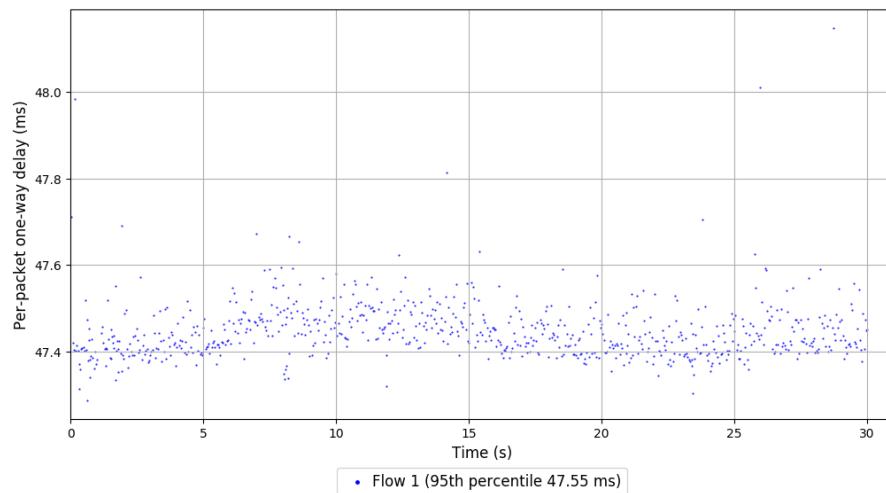
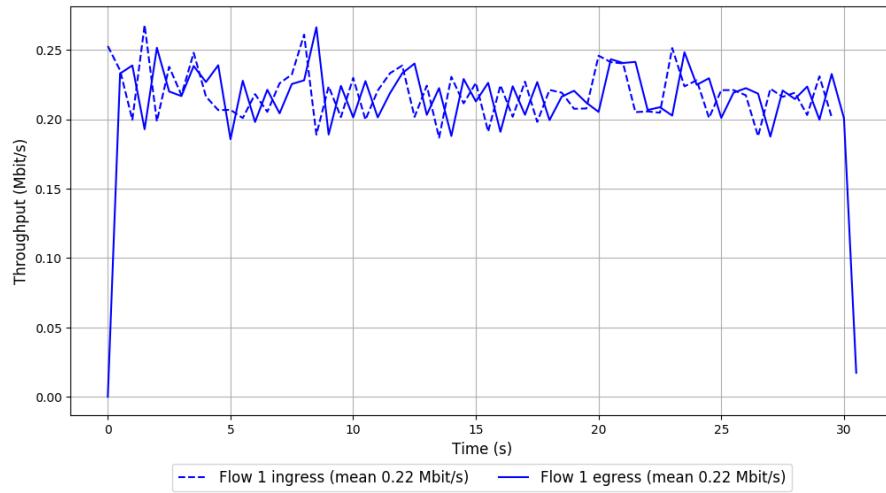


Run 3: Statistics of SCReAM

```
Start at: 2019-01-22 04:41:01
End at: 2019-01-22 04:41:31
Local clock offset: 0.086 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.553 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.553 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

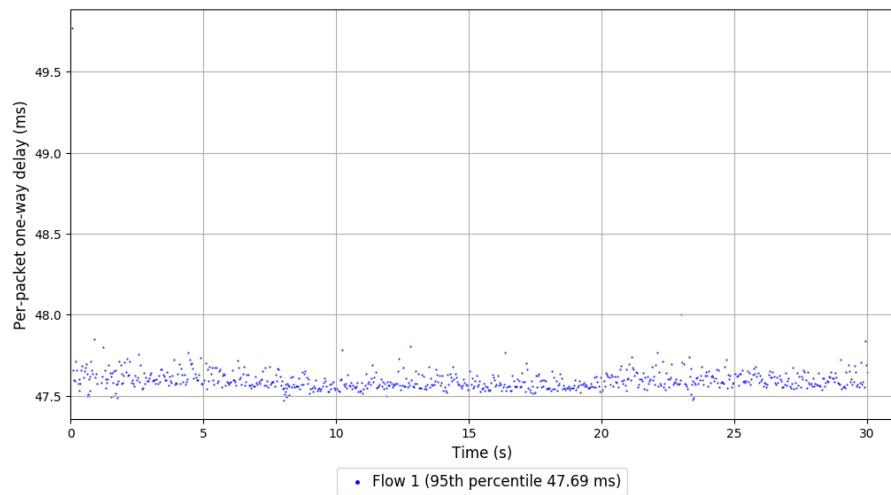
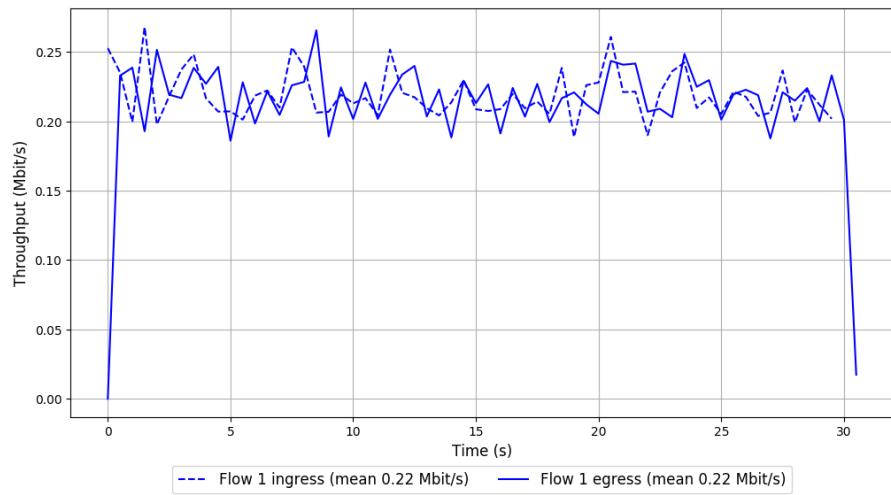


Run 4: Statistics of SCReAM

```
Start at: 2019-01-22 05:12:47
End at: 2019-01-22 05:13:17
Local clock offset: -0.002 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.691 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.691 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

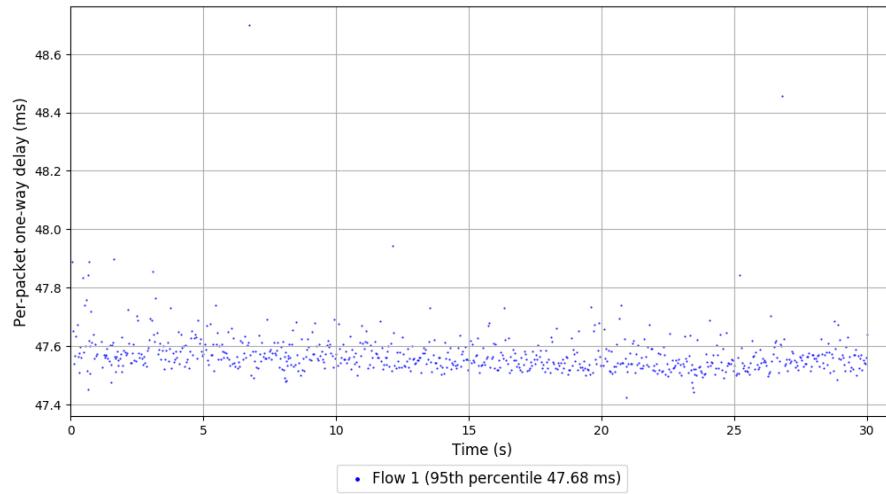
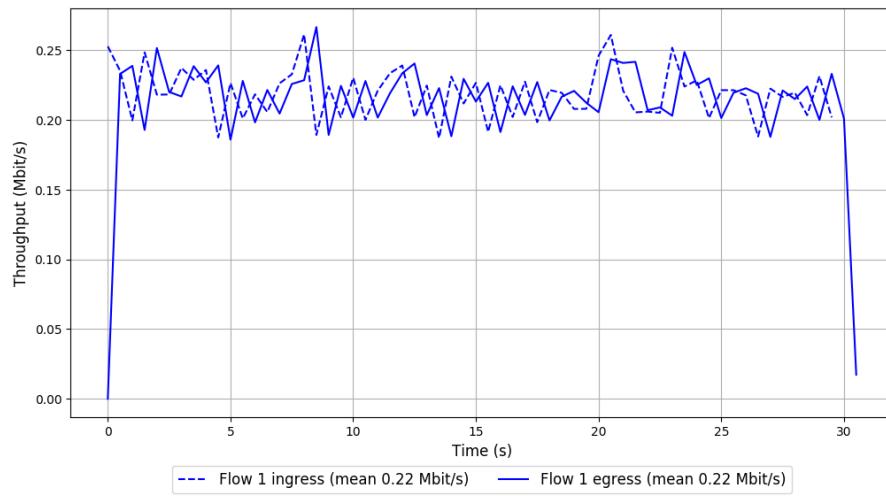


Run 5: Statistics of SCReAM

```
Start at: 2019-01-22 05:43:20
End at: 2019-01-22 05:43:50
Local clock offset: -0.024 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.676 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

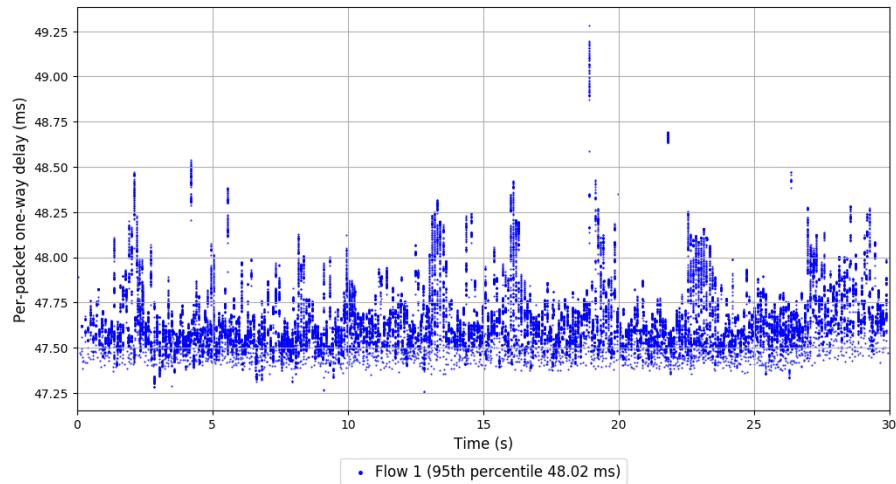
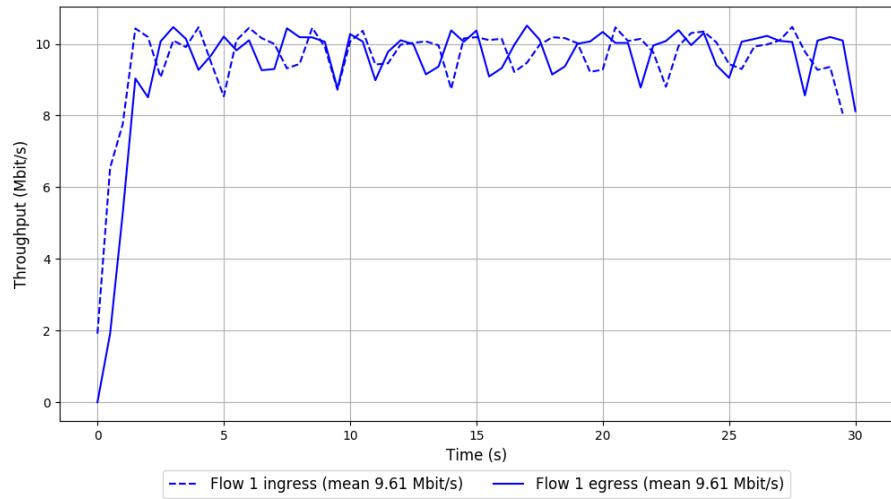


Run 1: Statistics of Sprout

```
Start at: 2019-01-22 04:04:19
End at: 2019-01-22 04:04:49
Local clock offset: 0.045 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 48.022 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 48.022 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

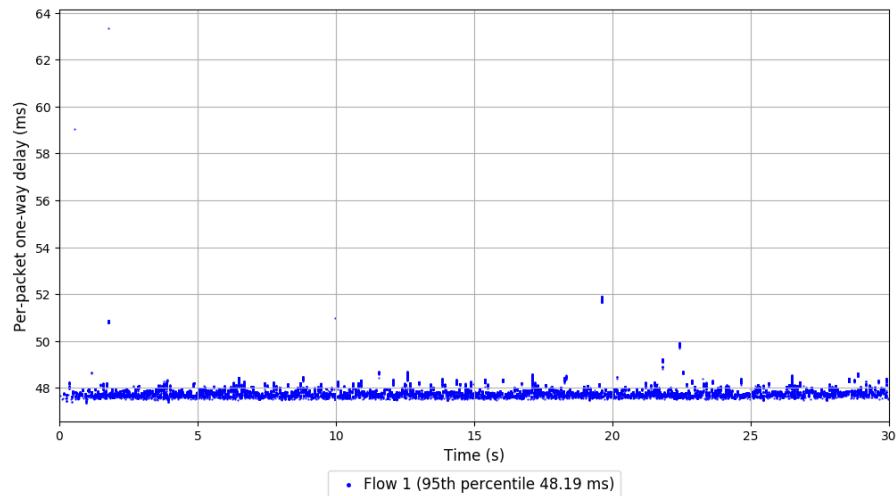
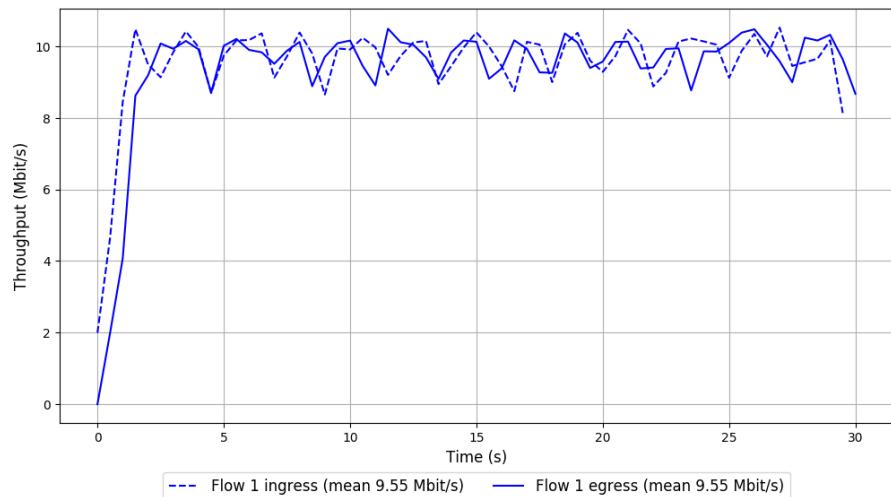


Run 2: Statistics of Sprout

```
Start at: 2019-01-22 04:35:32
End at: 2019-01-22 04:36:02
Local clock offset: 0.036 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 48.191 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 48.191 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link

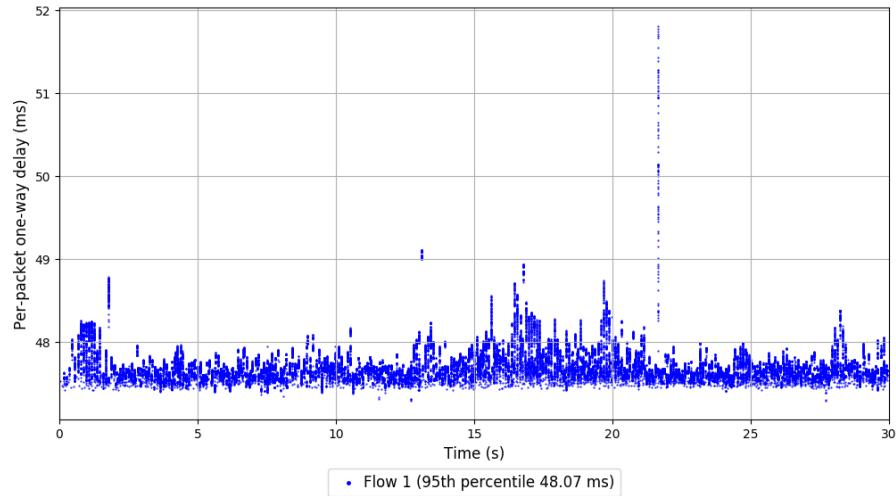
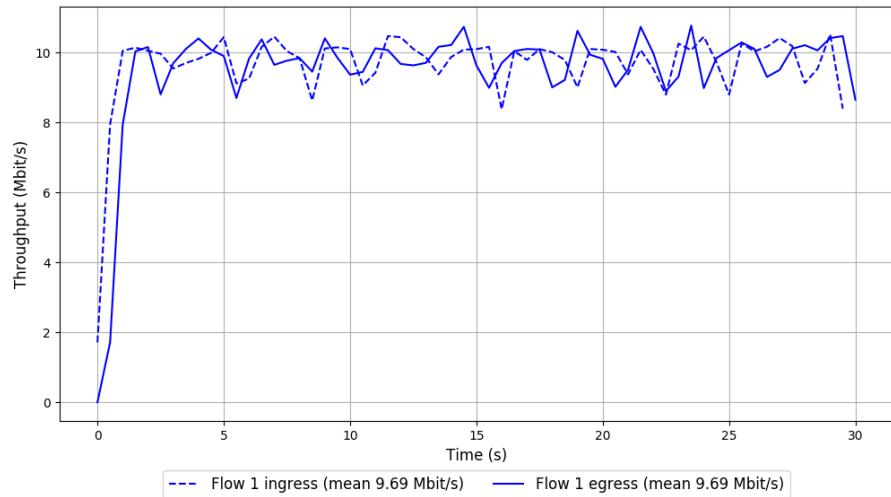


Run 3: Statistics of Sprout

```
Start at: 2019-01-22 05:07:22
End at: 2019-01-22 05:07:52
Local clock offset: -0.006 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 48.069 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 48.069 ms
Loss rate: 0.00%
```

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

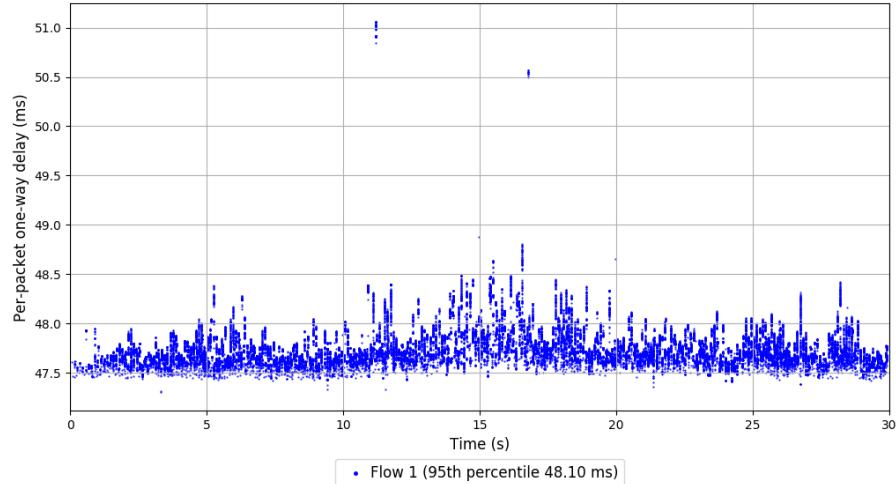
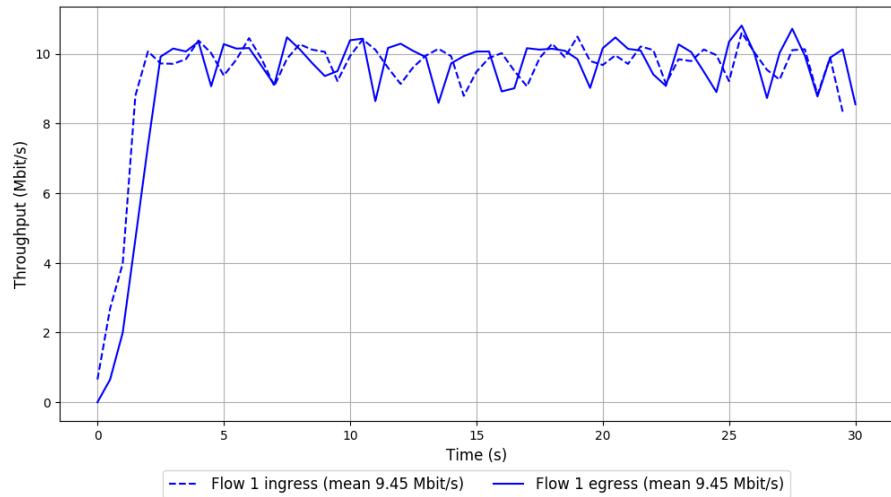


Run 4: Statistics of Sprout

```
Start at: 2019-01-22 05:37:55
End at: 2019-01-22 05:38:25
Local clock offset: 0.018 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.45 Mbit/s
95th percentile per-packet one-way delay: 48.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.45 Mbit/s
95th percentile per-packet one-way delay: 48.098 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

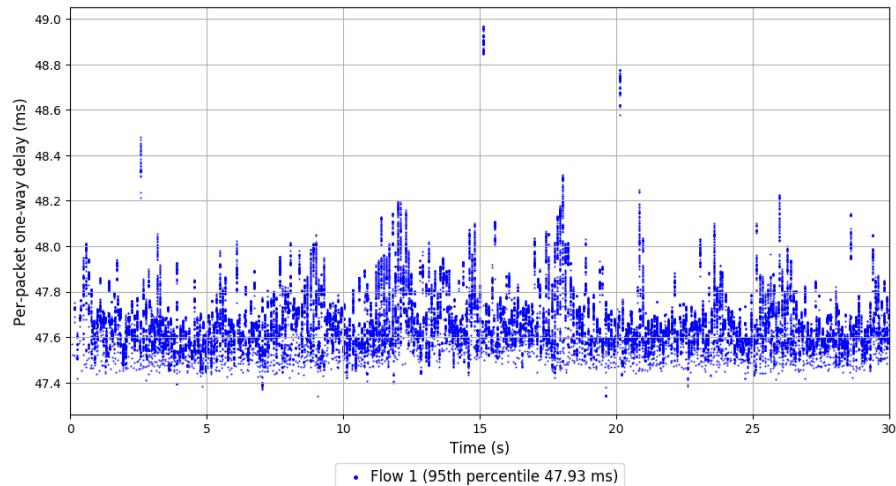
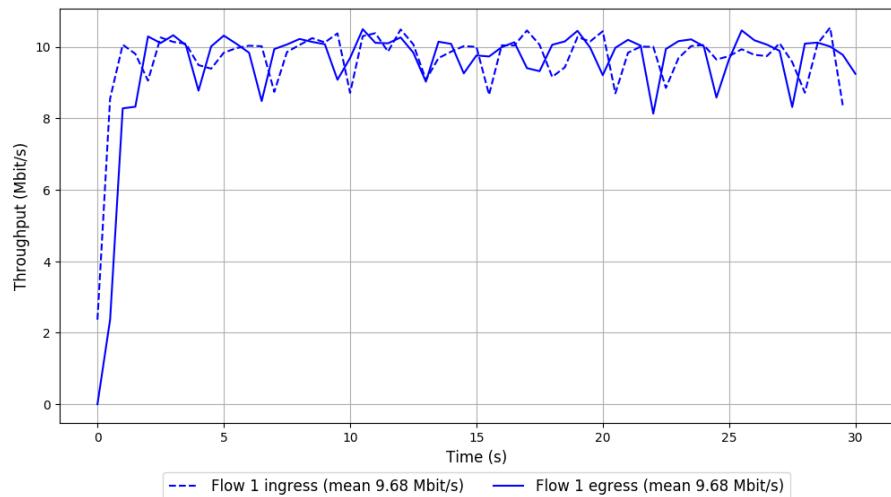


Run 5: Statistics of Sprout

```
Start at: 2019-01-22 06:08:31
End at: 2019-01-22 06:09:01
Local clock offset: -0.07 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 47.931 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 47.931 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

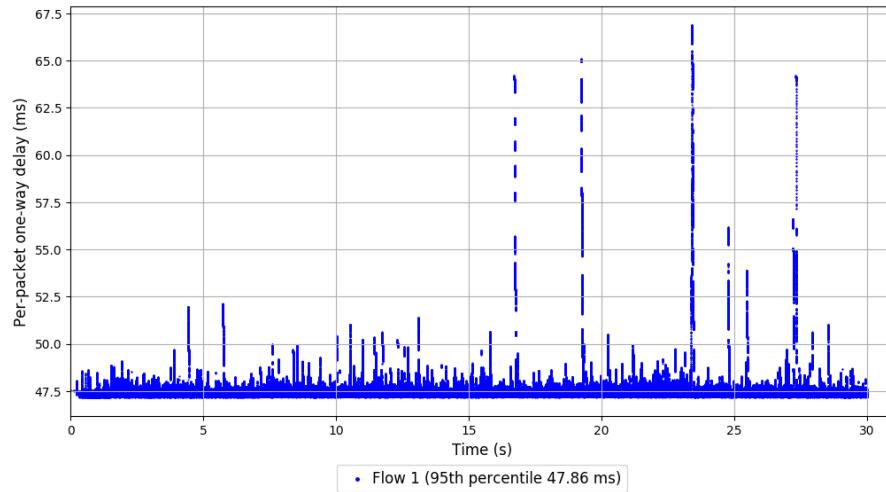
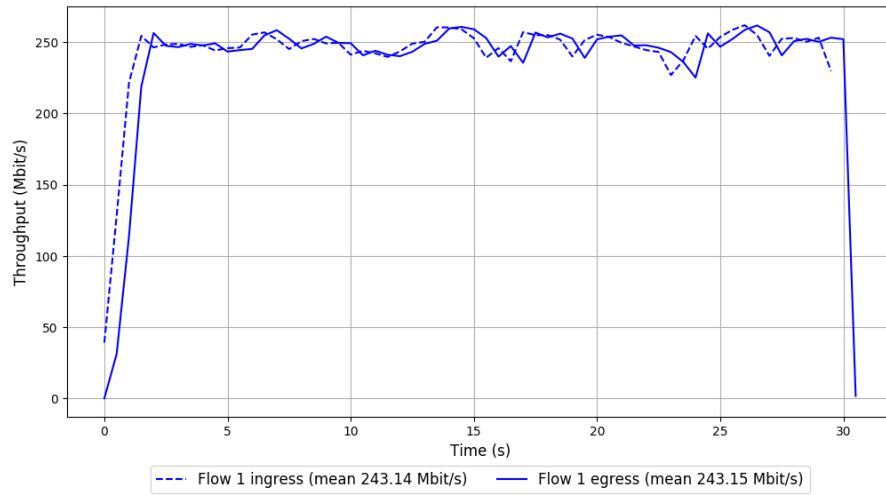


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-22 04:01:15
End at: 2019-01-22 04:01:45
Local clock offset: 0.085 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.15 Mbit/s
95th percentile per-packet one-way delay: 47.856 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 243.15 Mbit/s
95th percentile per-packet one-way delay: 47.856 ms
Loss rate: 0.00%
```

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

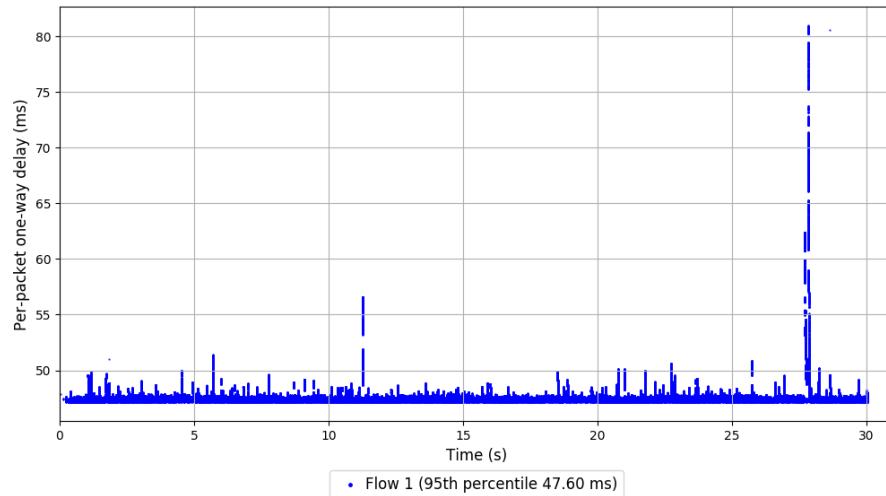
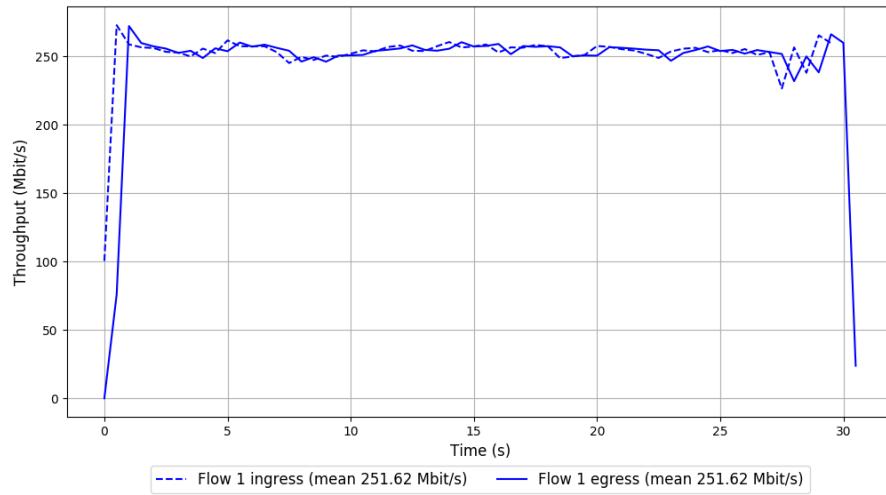


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-22 04:32:23
End at: 2019-01-22 04:32:53
Local clock offset: 0.042 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.62 Mbit/s
95th percentile per-packet one-way delay: 47.598 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 251.62 Mbit/s
95th percentile per-packet one-way delay: 47.598 ms
Loss rate: 0.00%
```

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

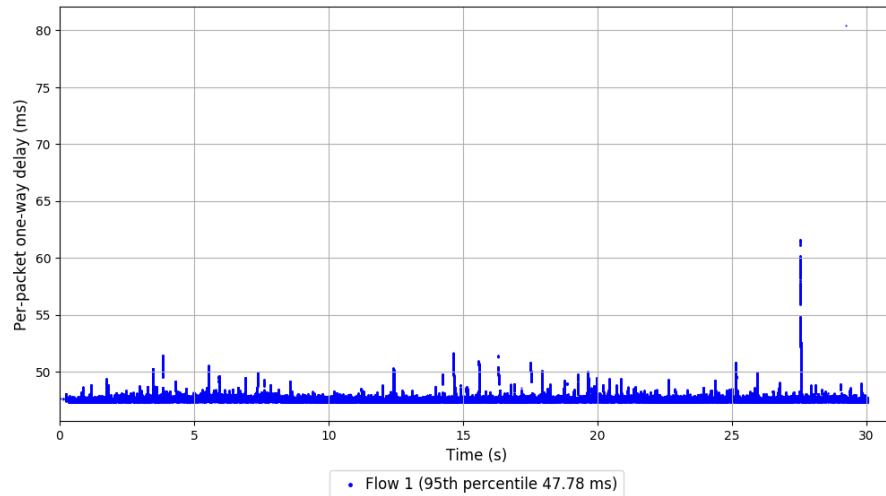
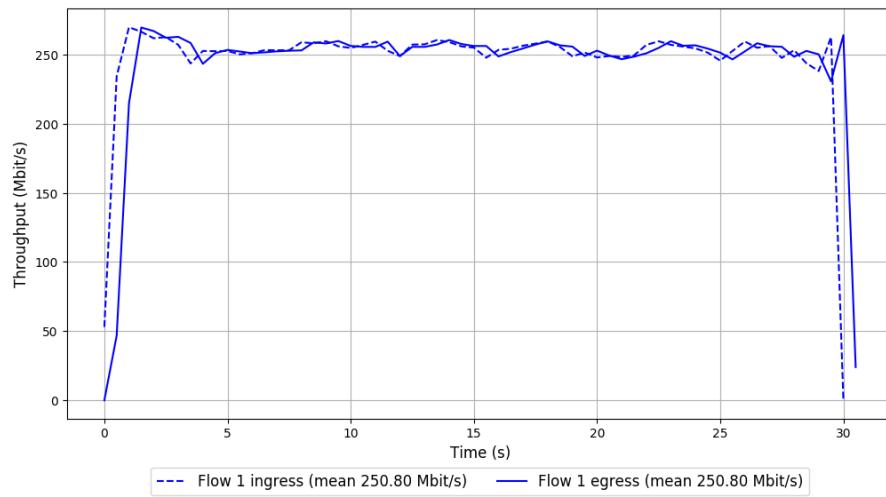


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-22 05:04:05
End at: 2019-01-22 05:04:35
Local clock offset: 0.03 ms
Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.80 Mbit/s
95th percentile per-packet one-way delay: 47.780 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 250.80 Mbit/s
95th percentile per-packet one-way delay: 47.780 ms
Loss rate: 0.00%
```

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

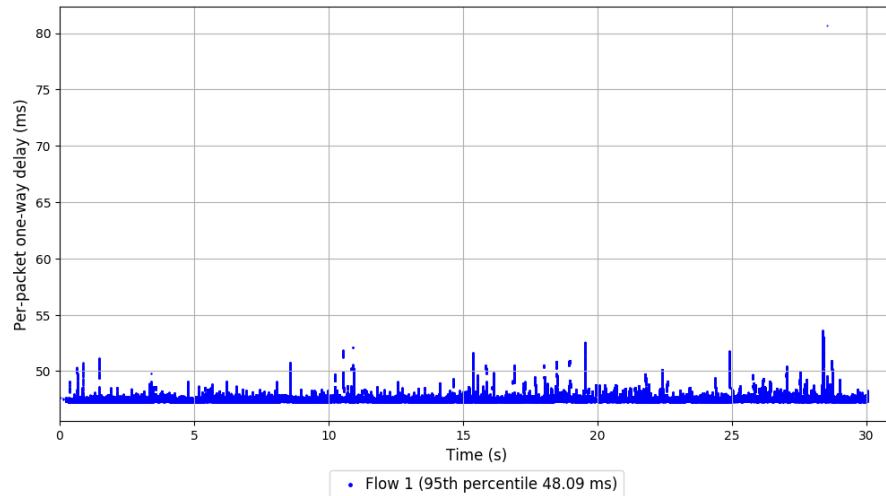
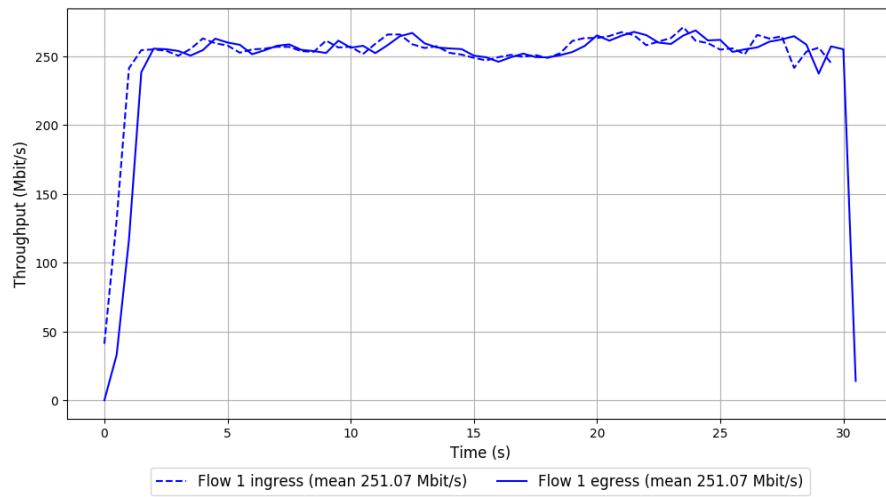


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-22 05:34:55
End at: 2019-01-22 05:35:25
Local clock offset: -0.073 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.07 Mbit/s
95th percentile per-packet one-way delay: 48.088 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 251.07 Mbit/s
95th percentile per-packet one-way delay: 48.088 ms
Loss rate: 0.00%
```

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

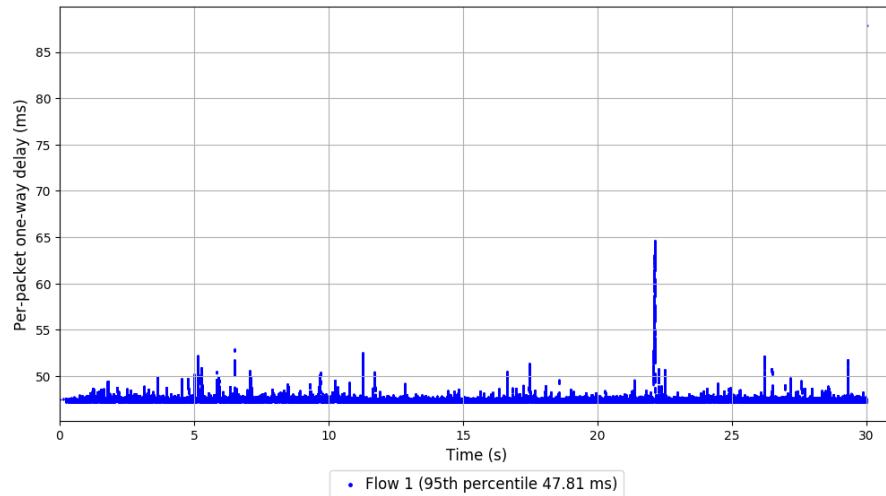
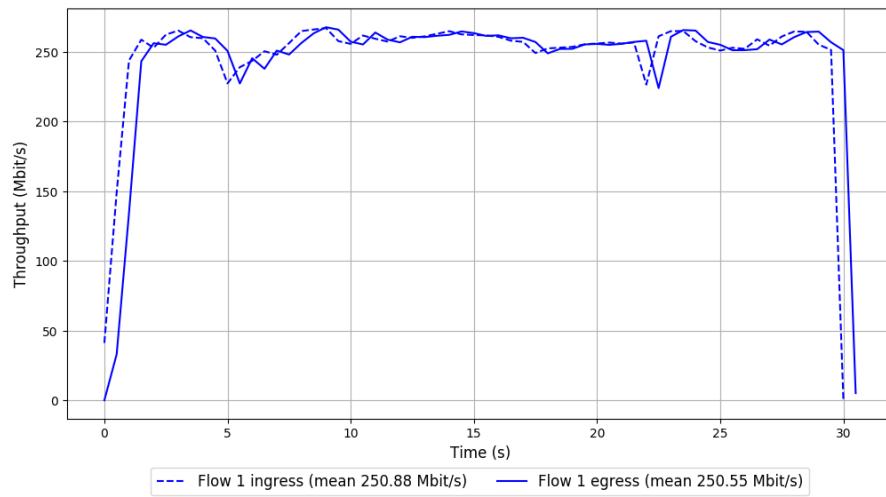


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-22 06:05:26
End at: 2019-01-22 06:05:56
Local clock offset: -0.017 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-01-22 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.55 Mbit/s
95th percentile per-packet one-way delay: 47.806 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 250.55 Mbit/s
95th percentile per-packet one-way delay: 47.806 ms
Loss rate: 0.13%
```

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

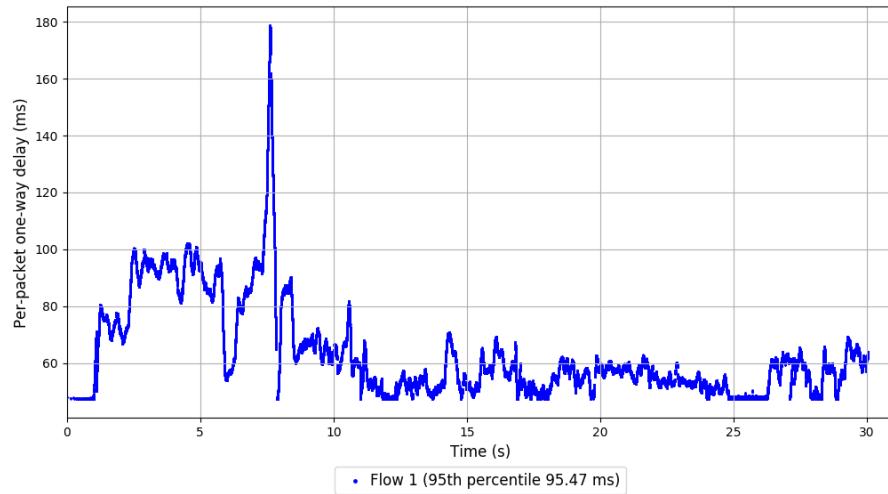
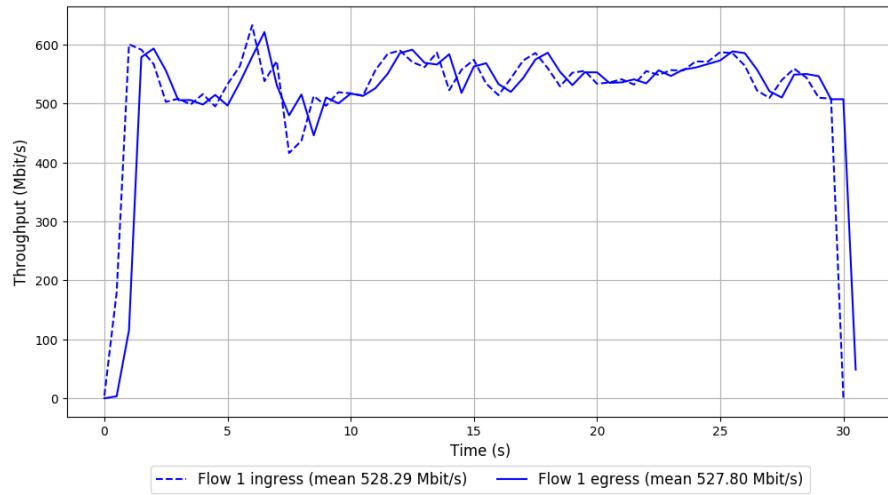


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-22 04:05:28
End at: 2019-01-22 04:05:58
Local clock offset: 0.045 ms
Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2019-01-22 08:06:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 527.80 Mbit/s
95th percentile per-packet one-way delay: 95.471 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 527.80 Mbit/s
95th percentile per-packet one-way delay: 95.471 ms
Loss rate: 0.09%
```

Run 1: Report of TCP Vegas — Data Link

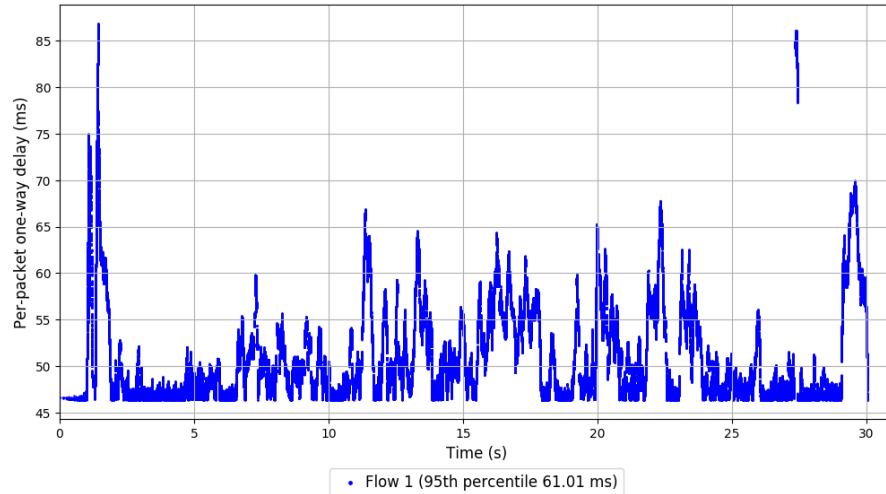
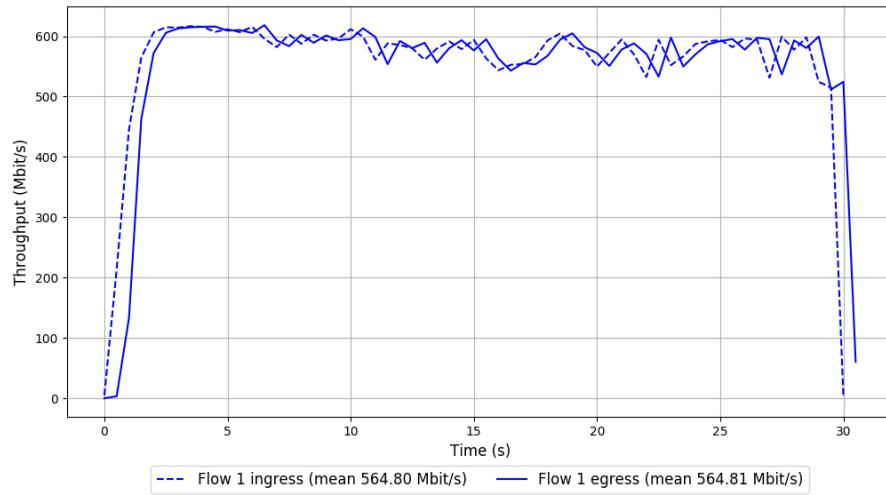


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-22 04:36:41
End at: 2019-01-22 04:37:11
Local clock offset: 0.03 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-01-22 08:14:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 564.81 Mbit/s
95th percentile per-packet one-way delay: 61.006 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 564.81 Mbit/s
95th percentile per-packet one-way delay: 61.006 ms
Loss rate: 0.00%
```

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

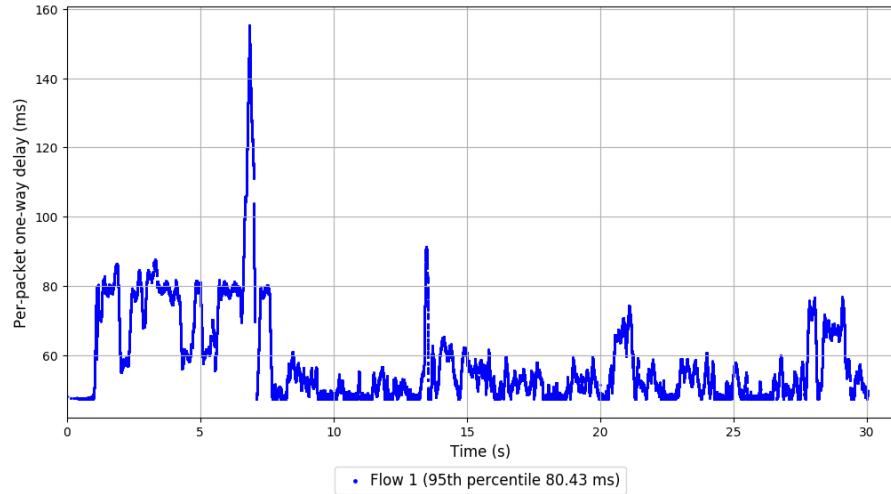
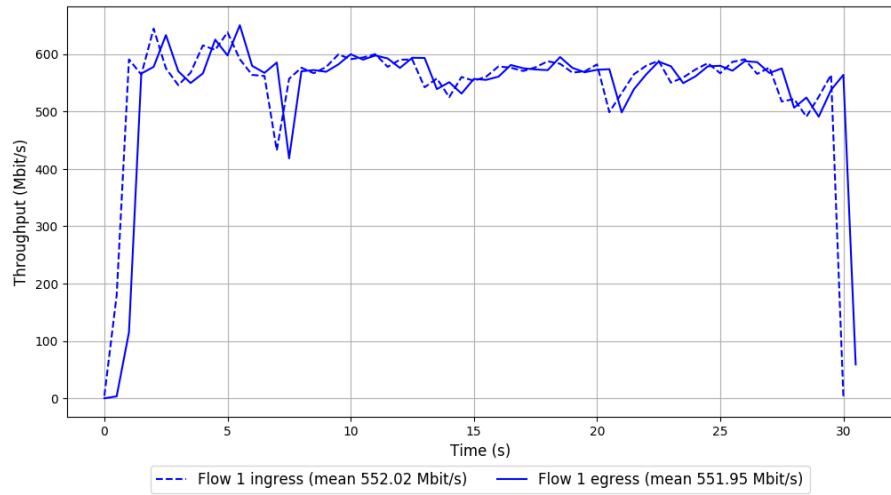


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-22 05:08:30
End at: 2019-01-22 05:09:00
Local clock offset: 0.006 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-01-22 08:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 551.95 Mbit/s
95th percentile per-packet one-way delay: 80.427 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 551.95 Mbit/s
95th percentile per-packet one-way delay: 80.427 ms
Loss rate: 0.01%
```

Run 3: Report of TCP Vegas — Data Link

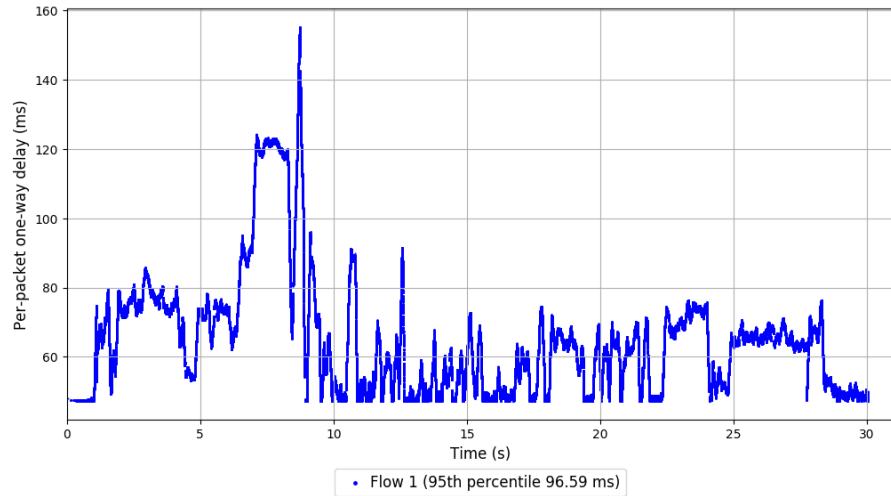
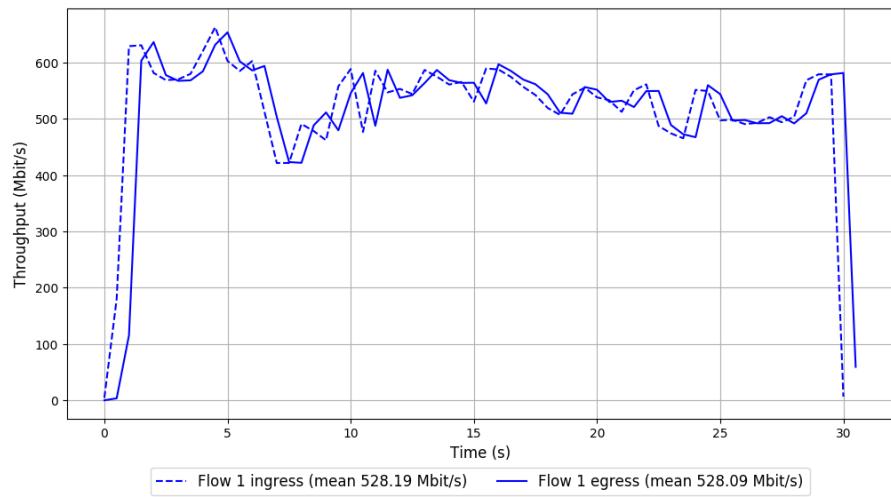


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-22 05:39:03
End at: 2019-01-22 05:39:33
Local clock offset: -0.004 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-01-22 08:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 528.09 Mbit/s
95th percentile per-packet one-way delay: 96.593 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 528.09 Mbit/s
95th percentile per-packet one-way delay: 96.593 ms
Loss rate: 0.02%
```

Run 4: Report of TCP Vegas — Data Link

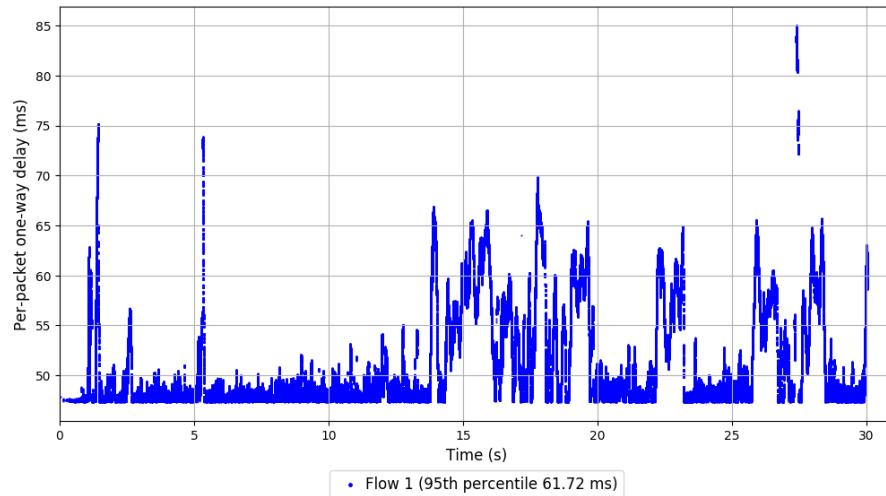
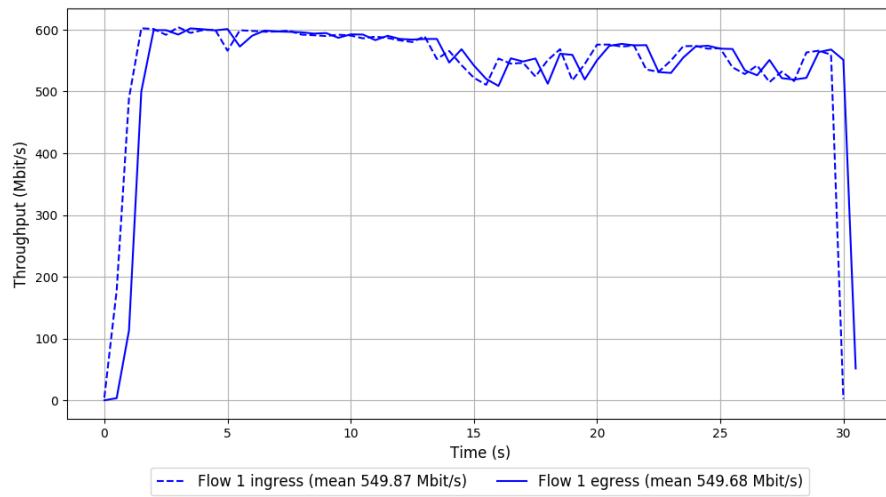


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-22 06:09:40
End at: 2019-01-22 06:10:10
Local clock offset: -0.072 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-01-22 08:15:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 549.68 Mbit/s
95th percentile per-packet one-way delay: 61.719 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 549.68 Mbit/s
95th percentile per-packet one-way delay: 61.719 ms
Loss rate: 0.03%
```

Run 5: Report of TCP Vegas — Data Link

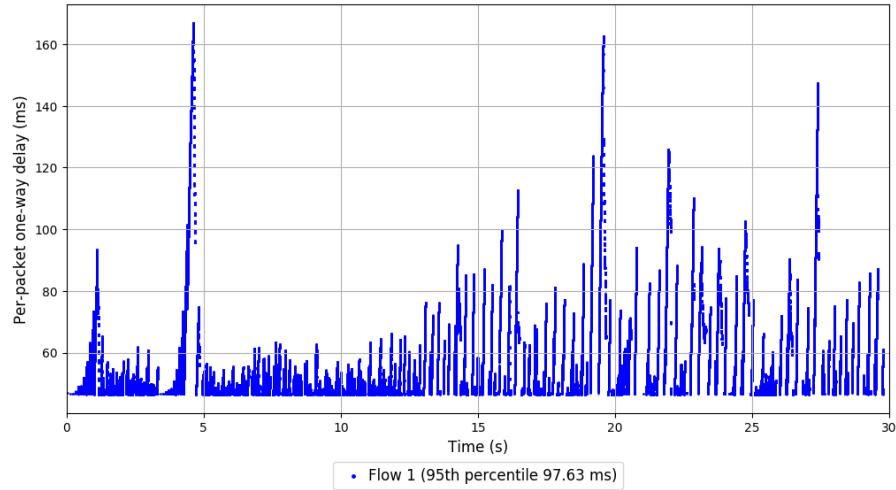
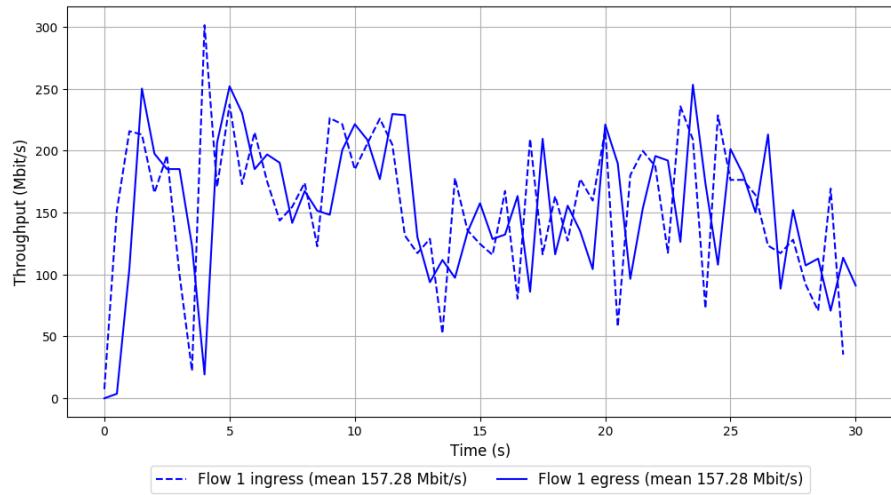


Run 1: Statistics of Verus

```
Start at: 2019-01-22 03:38:36
End at: 2019-01-22 03:39:06
Local clock offset: 0.074 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-01-22 08:15:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.28 Mbit/s
95th percentile per-packet one-way delay: 97.632 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 157.28 Mbit/s
95th percentile per-packet one-way delay: 97.632 ms
Loss rate: 0.00%
```

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

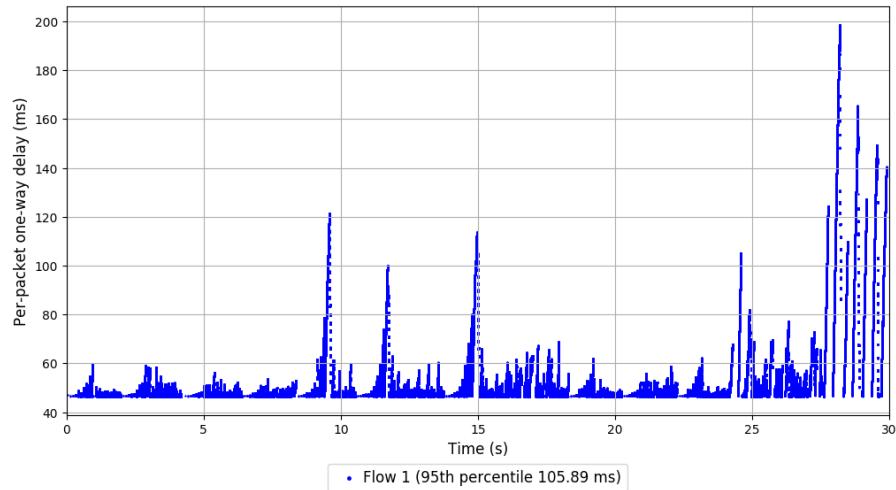
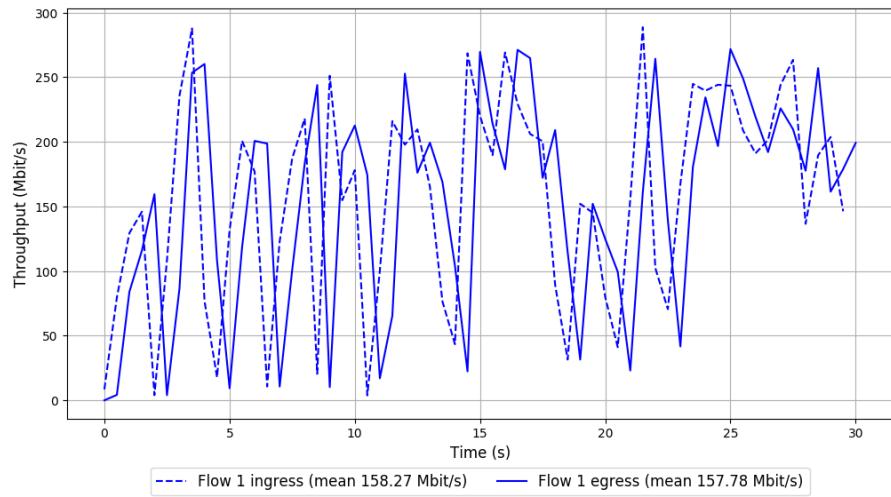


Run 2: Statistics of Verus

```
Start at: 2019-01-22 04:11:01
End at: 2019-01-22 04:11:31
Local clock offset: 0.042 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-01-22 08:15:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.78 Mbit/s
95th percentile per-packet one-way delay: 105.894 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 157.78 Mbit/s
95th percentile per-packet one-way delay: 105.894 ms
Loss rate: 0.00%
```

## Run 2: Report of Verus — Data Link

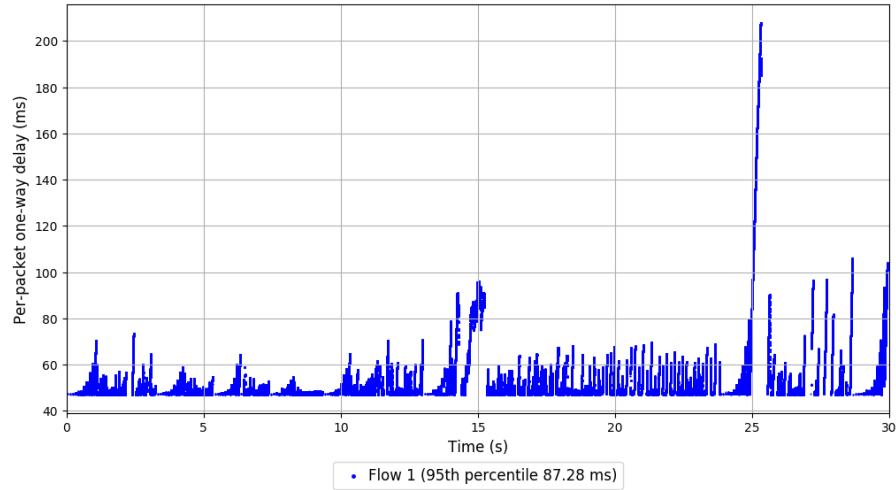
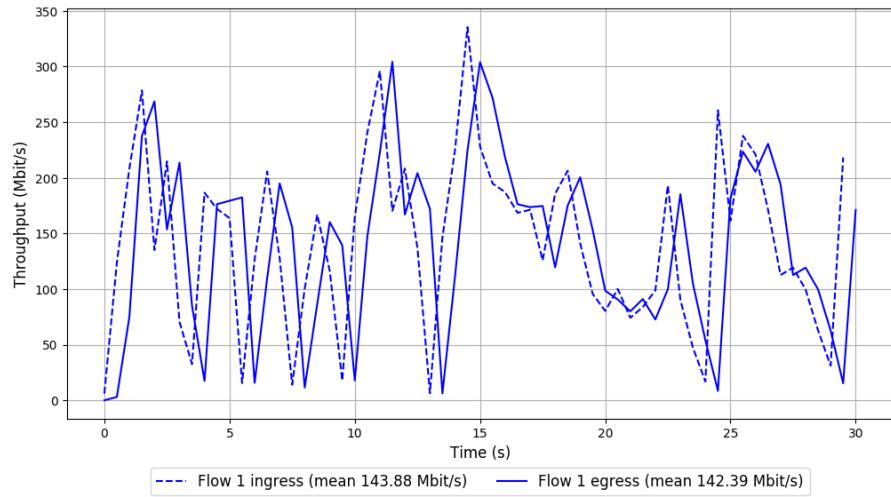


Run 3: Statistics of Verus

```
Start at: 2019-01-22 04:42:09
End at: 2019-01-22 04:42:39
Local clock offset: 0.039 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-01-22 08:15:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 142.39 Mbit/s
95th percentile per-packet one-way delay: 87.279 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 142.39 Mbit/s
95th percentile per-packet one-way delay: 87.279 ms
Loss rate: 1.03%
```

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

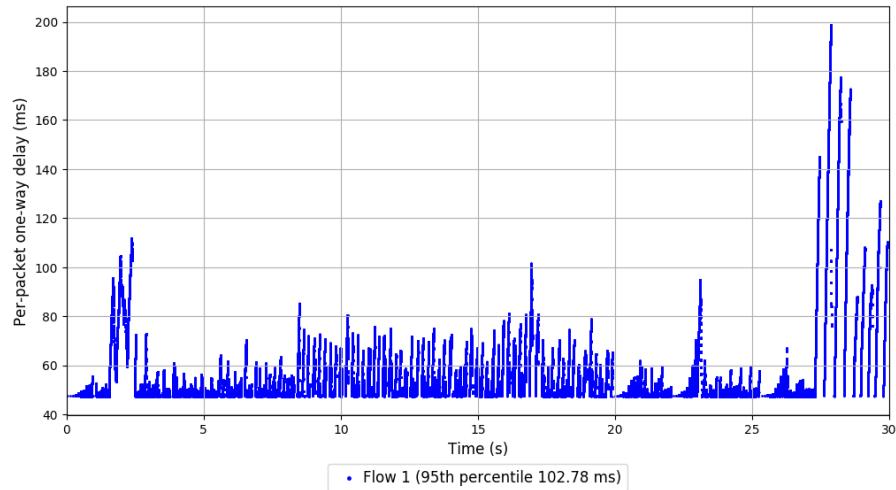
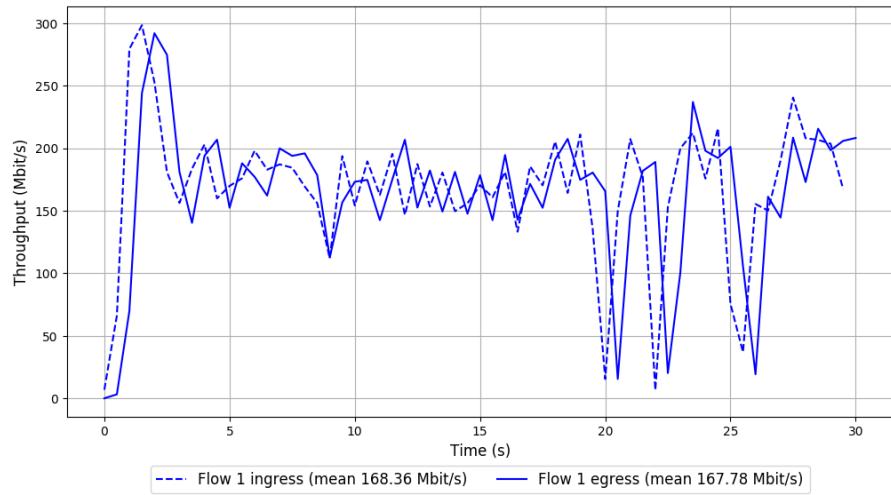


Run 4: Statistics of Verus

```
Start at: 2019-01-22 05:13:54
End at: 2019-01-22 05:14:24
Local clock offset: 0.177 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-01-22 08:15:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 167.78 Mbit/s
95th percentile per-packet one-way delay: 102.781 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 167.78 Mbit/s
95th percentile per-packet one-way delay: 102.781 ms
Loss rate: 0.25%
```

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

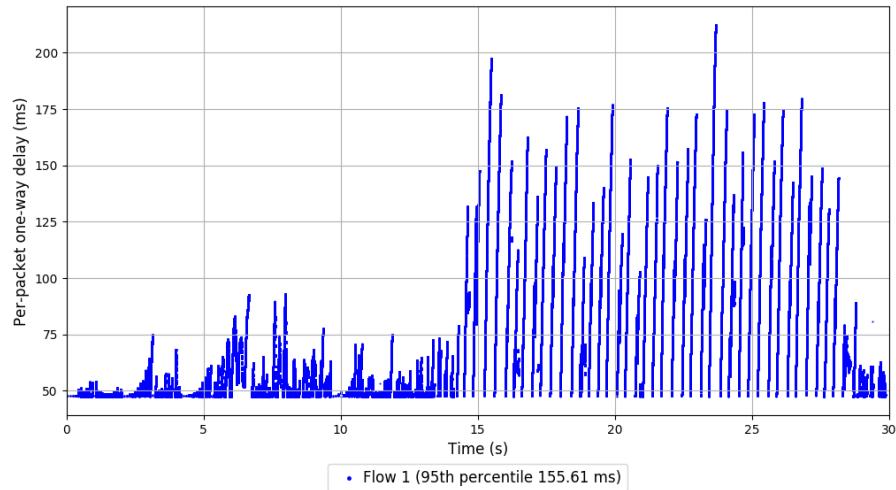
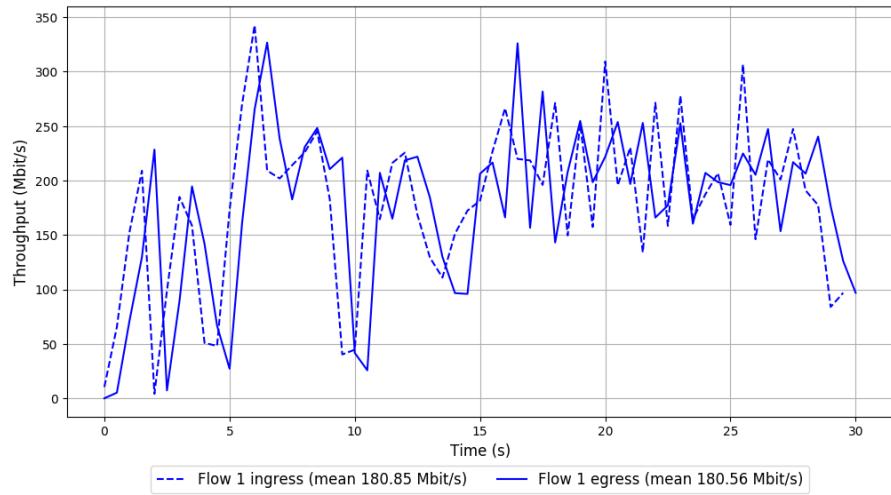


Run 5: Statistics of Verus

```
Start at: 2019-01-22 05:44:27
End at: 2019-01-22 05:44:57
Local clock offset: -0.059 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-01-22 08:16:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.56 Mbit/s
95th percentile per-packet one-way delay: 155.610 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 180.56 Mbit/s
95th percentile per-packet one-way delay: 155.610 ms
Loss rate: 0.16%
```

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

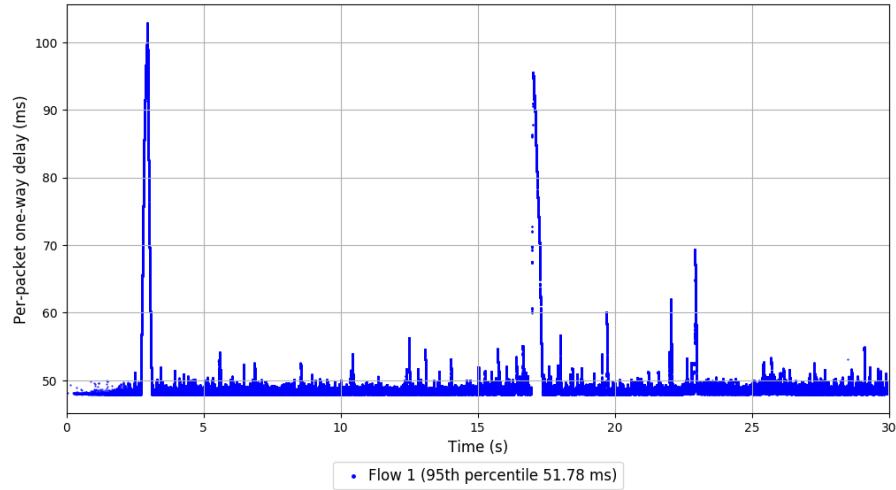
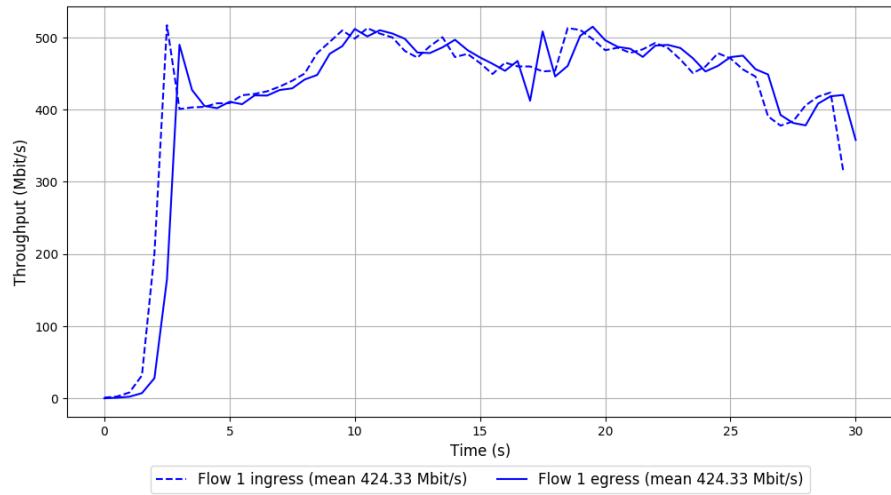


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-01-22 03:47:15
End at: 2019-01-22 03:47:45
Local clock offset: -0.321 ms
Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2019-01-22 08:18:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 424.33 Mbit/s
95th percentile per-packet one-way delay: 51.779 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 424.33 Mbit/s
95th percentile per-packet one-way delay: 51.779 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

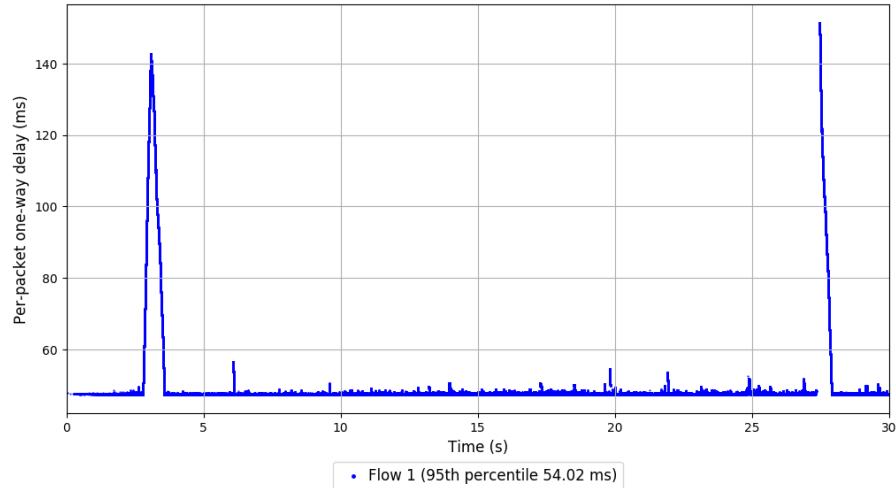
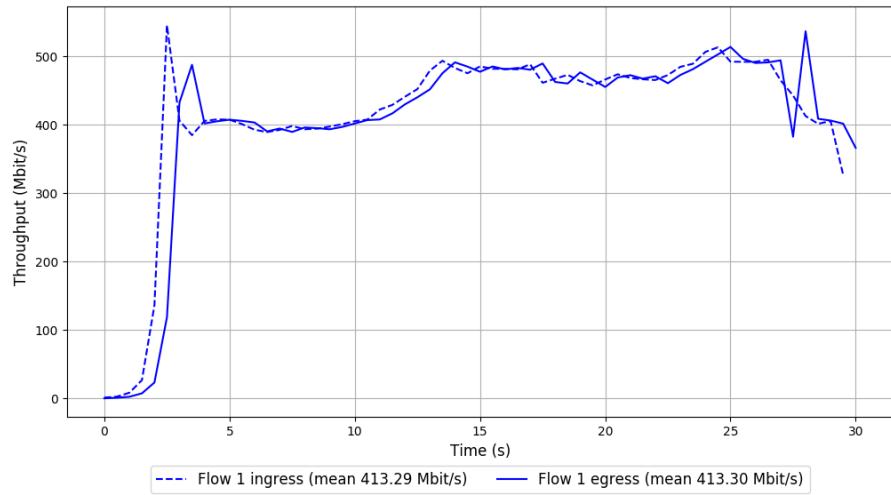


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-22 04:18:50
End at: 2019-01-22 04:19:20
Local clock offset: 0.04 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-01-22 08:18:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 413.30 Mbit/s
95th percentile per-packet one-way delay: 54.018 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 413.30 Mbit/s
95th percentile per-packet one-way delay: 54.018 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

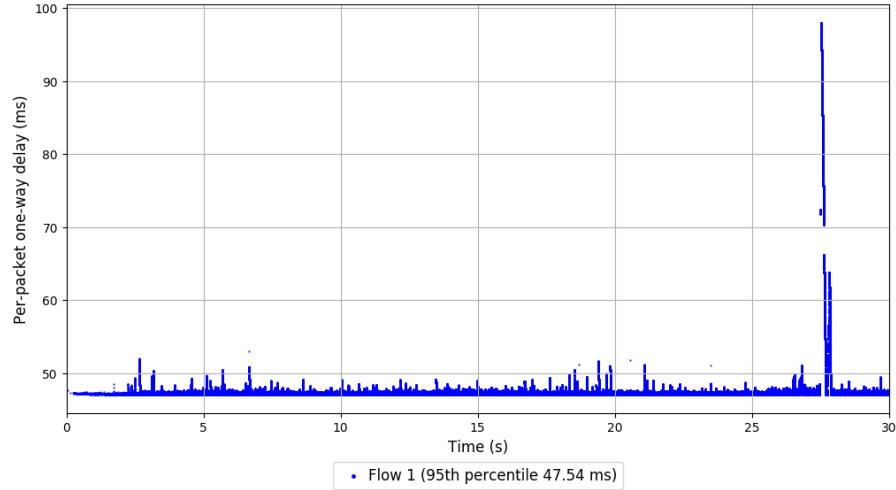
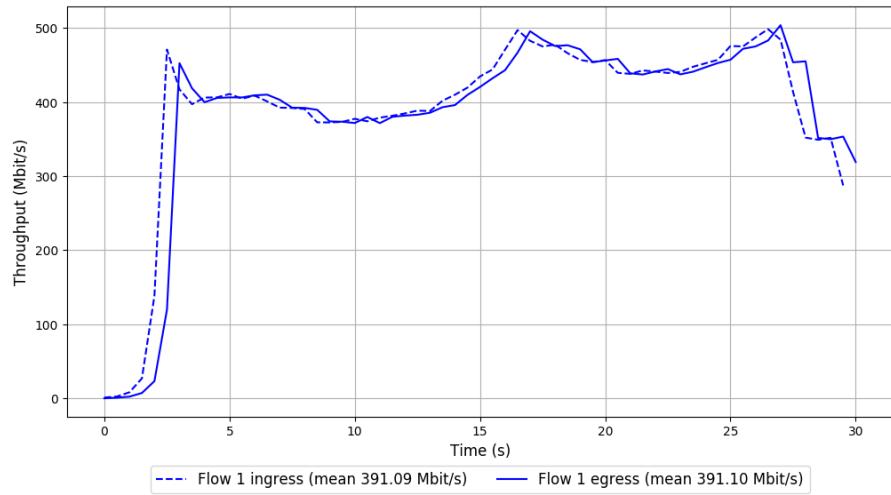


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-22 04:50:15
End at: 2019-01-22 04:50:45
Local clock offset: 0.148 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-01-22 08:18:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 391.10 Mbit/s
95th percentile per-packet one-way delay: 47.543 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 391.10 Mbit/s
95th percentile per-packet one-way delay: 47.543 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

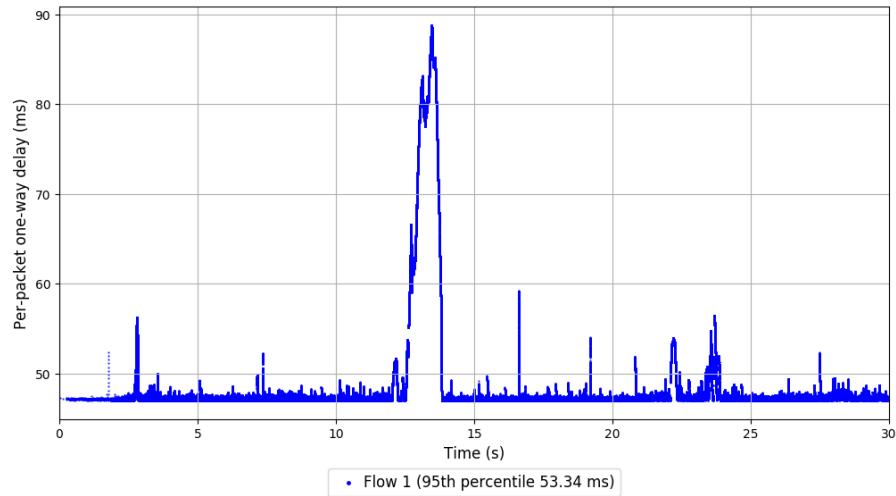
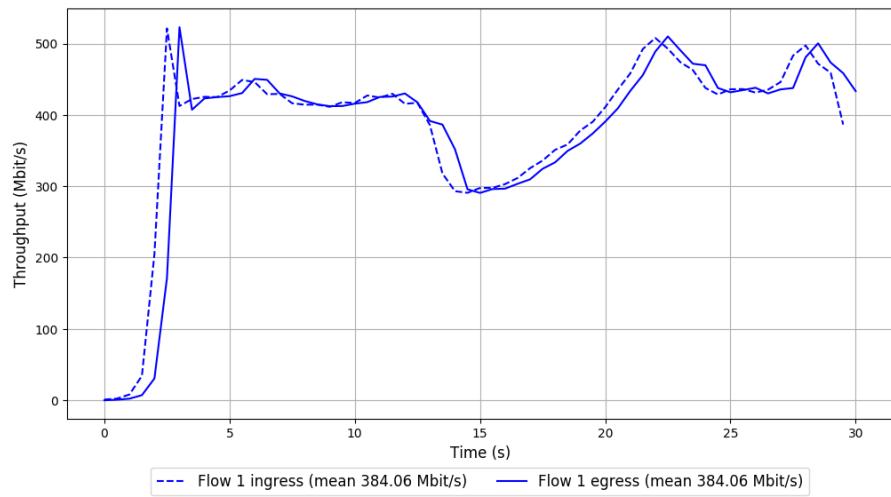


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-22 05:21:39
End at: 2019-01-22 05:22:09
Local clock offset: 0.044 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-01-22 08:18:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.06 Mbit/s
95th percentile per-packet one-way delay: 53.339 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 384.06 Mbit/s
95th percentile per-packet one-way delay: 53.339 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

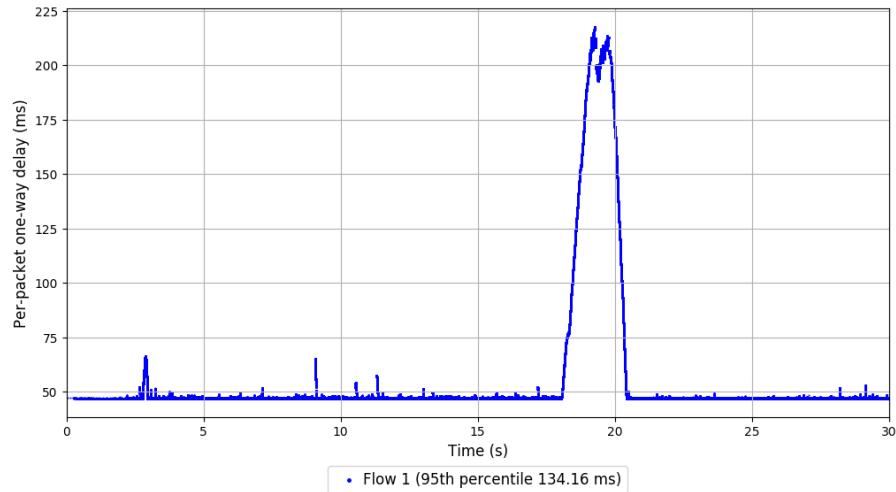
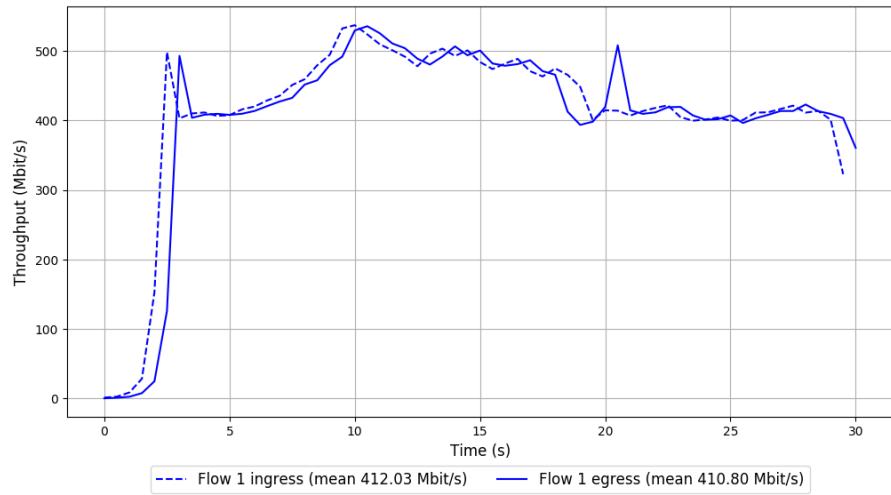


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-22 05:52:14
End at: 2019-01-22 05:52:44
Local clock offset: 0.361 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-01-22 08:18:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 410.80 Mbit/s
95th percentile per-packet one-way delay: 134.157 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 410.80 Mbit/s
95th percentile per-packet one-way delay: 134.157 ms
Loss rate: 0.30%
```

Run 5: Report of PCC-Vivace — Data Link

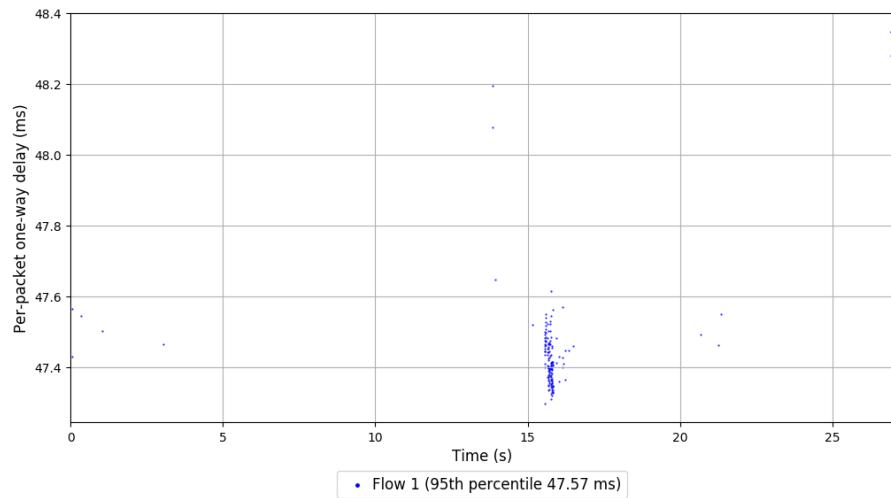
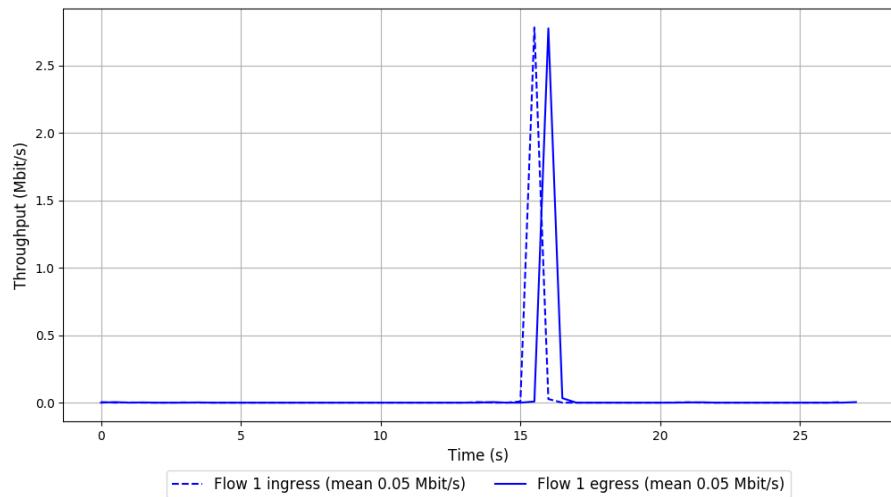


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-22 03:56:39
End at: 2019-01-22 03:57:09
Local clock offset: 0.056 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-01-22 08:18:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.570 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.570 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

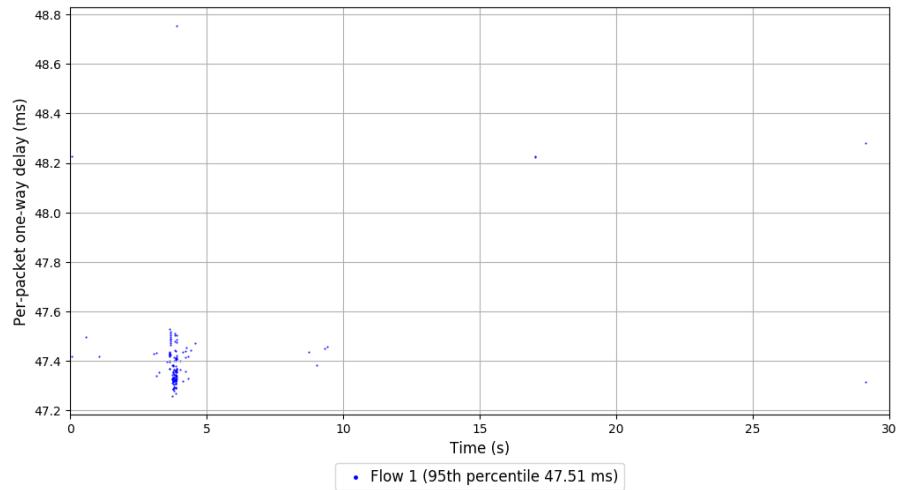
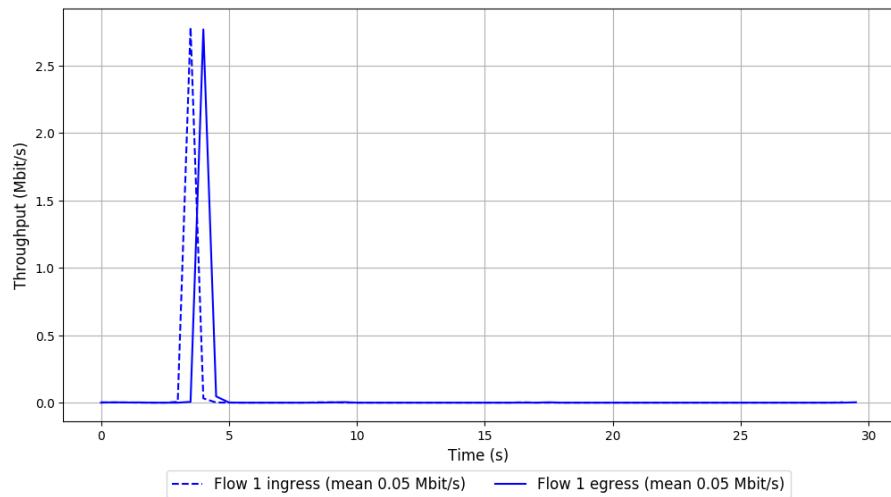


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-22 04:27:55
End at: 2019-01-22 04:28:25
Local clock offset: 0.049 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-01-22 08:18:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.511 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.511 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

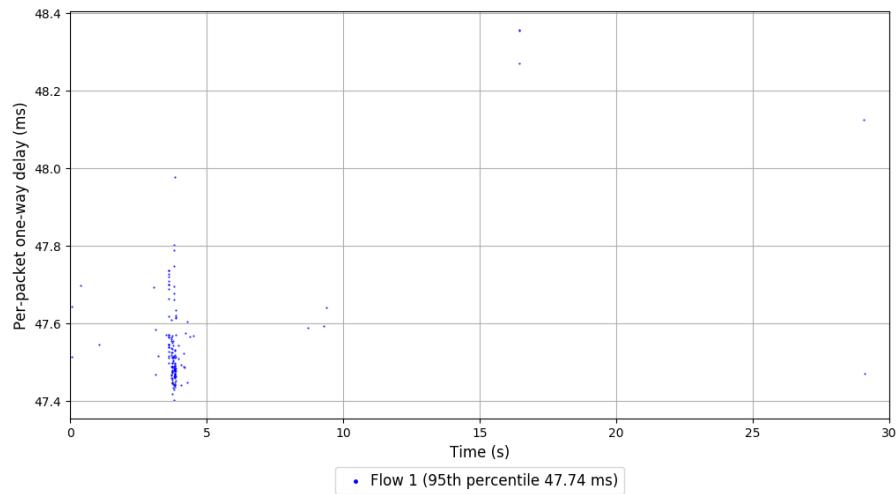
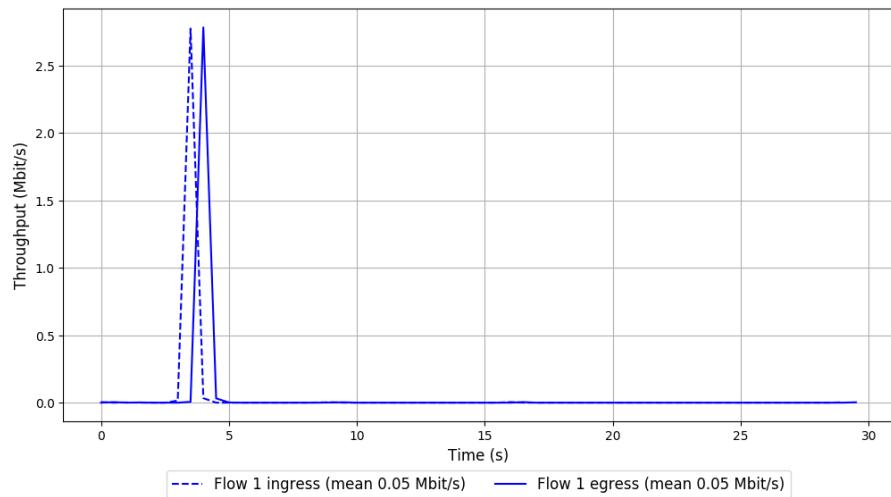


```
Run 3: Statistics of WebRTC media

Start at: 2019-01-22 04:59:34
End at: 2019-01-22 05:00:04
Local clock offset: -0.059 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-01-22 08:18:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.737 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.737 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

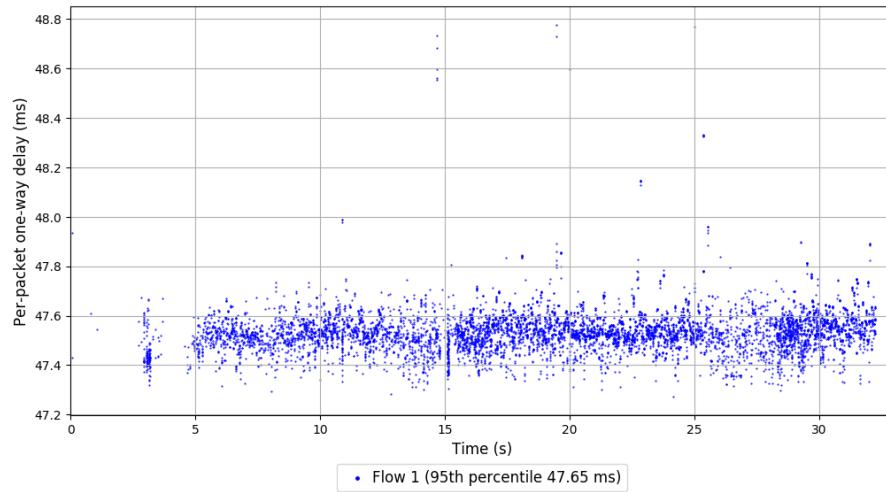
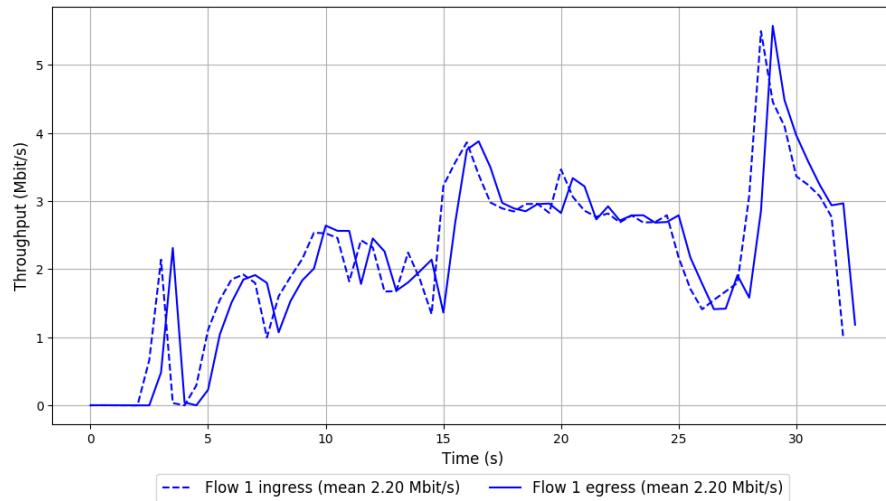


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-22 05:30:31
End at: 2019-01-22 05:31:01
Local clock offset: -0.035 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-01-22 08:18:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 47.647 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 47.647 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-01-22 06:01:04
End at: 2019-01-22 06:01:34
Local clock offset: -0.101 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-01-22 08:18:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 47.741 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 47.741 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

