

Pantheon Report

Generated at 2019-03-27 20:28:46 (UTC).
Data path: GCE Iowa on `ens4 (remote)` → GCE London on `ens4 (local)`.
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

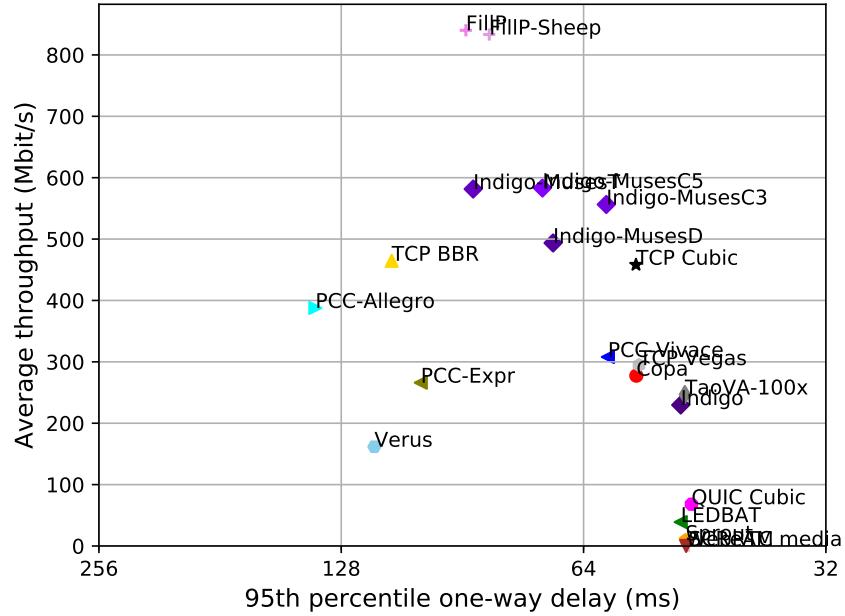
```
Linux 4.15.0-1028-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

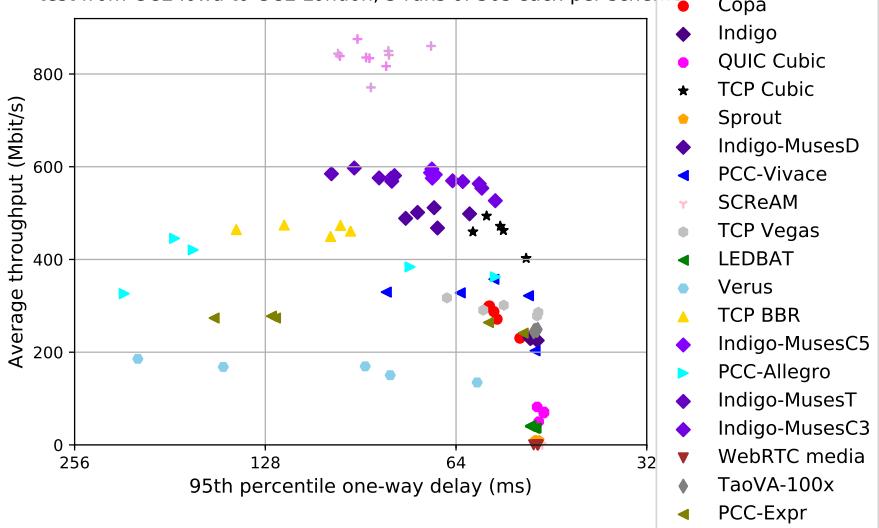
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



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



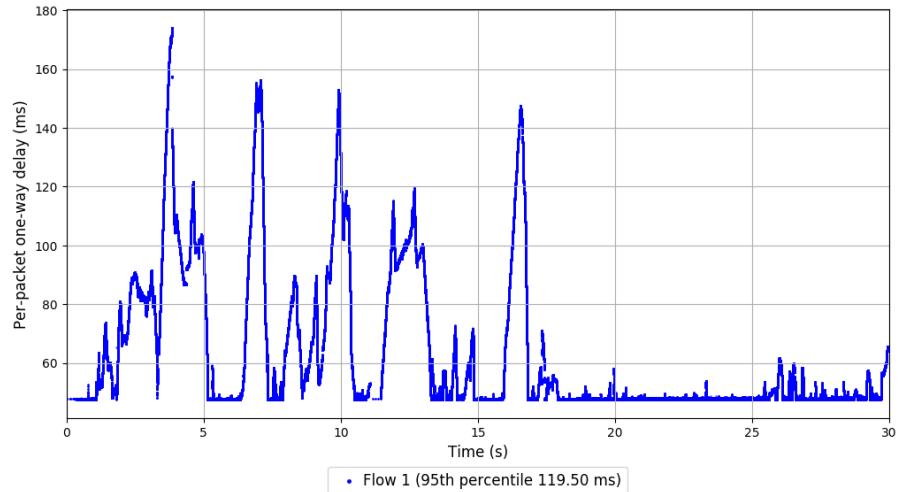
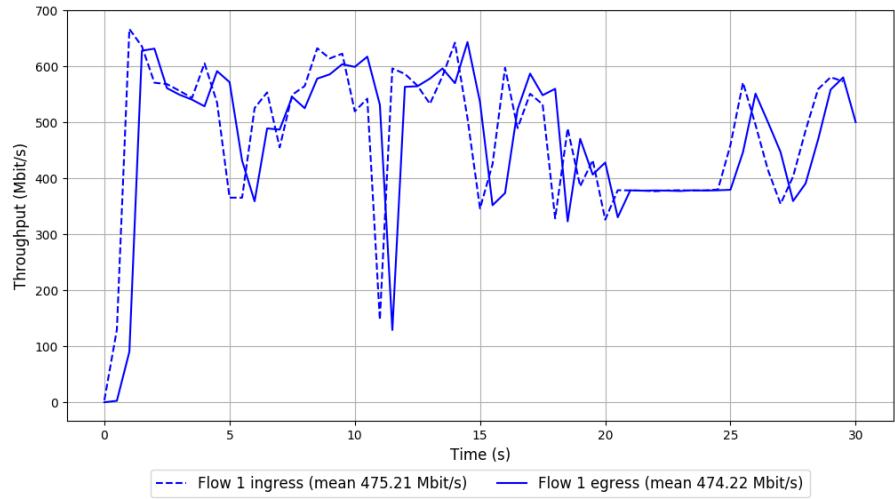
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	464.61	110.80	0.33
Copa	5	277.47	55.03	0.33
TCP Cubic	5	458.14	55.09	0.32
FillP	5	840.12	89.62	0.38
FillP-Sheep	5	833.25	83.82	0.42
Indigo	4	229.72	48.47	0.32
Indigo-MusesC3	5	556.35	59.97	0.38
Indigo-MusesC5	5	583.16	71.99	0.36
Indigo-MusesD	5	493.63	69.83	0.39
Indigo-MusesT	5	581.52	87.76	0.36
LEDBAT	5	38.96	48.47	0.26
PCC-Allegro	5	387.78	137.83	2.49
PCC-Expr	5	266.03	101.96	0.76
QUIC Cubic	4	68.06	47.01	0.47
SCReAM	5	0.22	47.42	0.31
Sprout	5	9.55	47.82	0.31
TaoVA-100x	5	246.79	47.90	0.32
TCP Vegas	5	294.74	54.61	0.29
Verus	5	161.69	116.44	1.30
PCC-Vivace	5	307.94	59.70	0.35
WebRTC media	4	0.05	47.73	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-27 16:29:20
End at: 2019-03-27 16:29:50
Local clock offset: -0.006 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-03-27 18:53:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 474.22 Mbit/s
95th percentile per-packet one-way delay: 119.505 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 474.22 Mbit/s
95th percentile per-packet one-way delay: 119.505 ms
Loss rate: 0.53%
```

Run 1: Report of TCP BBR — Data Link

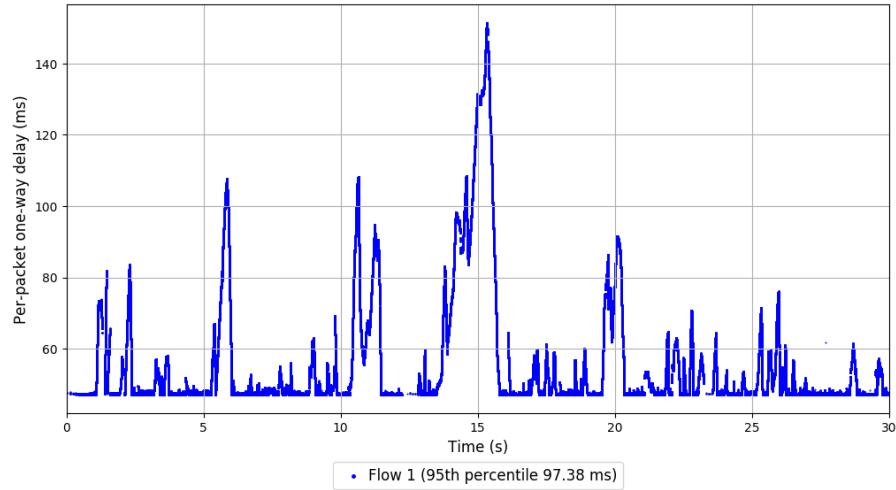
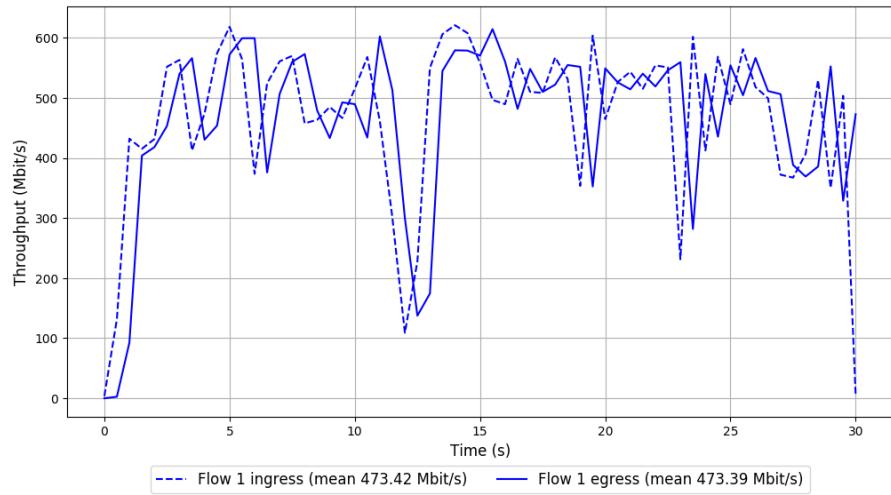


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-27 16:59:57
End at: 2019-03-27 17:00:27
Local clock offset: -0.075 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-03-27 18:53:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 473.39 Mbit/s
95th percentile per-packet one-way delay: 97.383 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 473.39 Mbit/s
95th percentile per-packet one-way delay: 97.383 ms
Loss rate: 0.32%
```

Run 2: Report of TCP BBR — Data Link

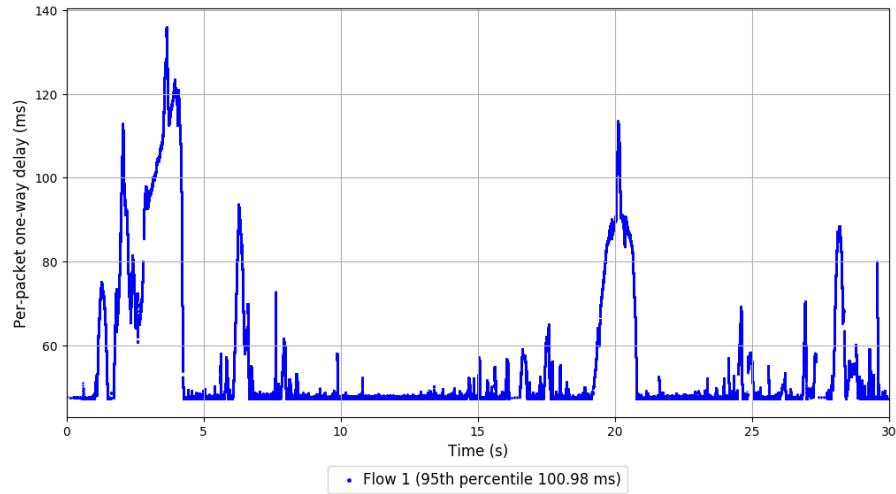
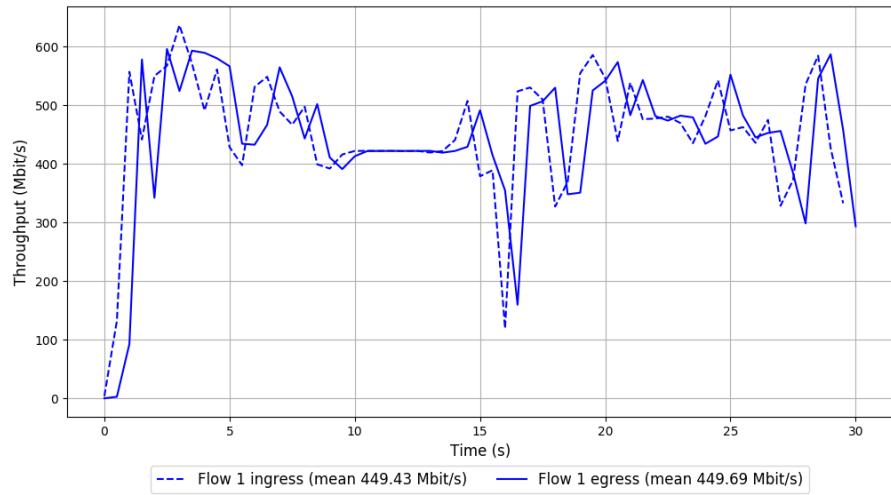


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-27 17:30:08
End at: 2019-03-27 17:30:38
Local clock offset: -0.087 ms
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2019-03-27 18:53:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 449.69 Mbit/s
95th percentile per-packet one-way delay: 100.985 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 449.69 Mbit/s
95th percentile per-packet one-way delay: 100.985 ms
Loss rate: 0.26%
```

Run 3: Report of TCP BBR — Data Link

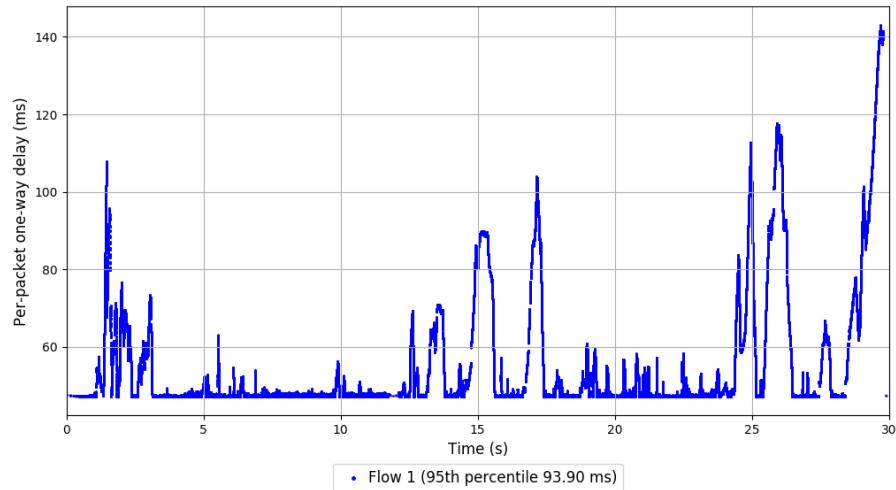
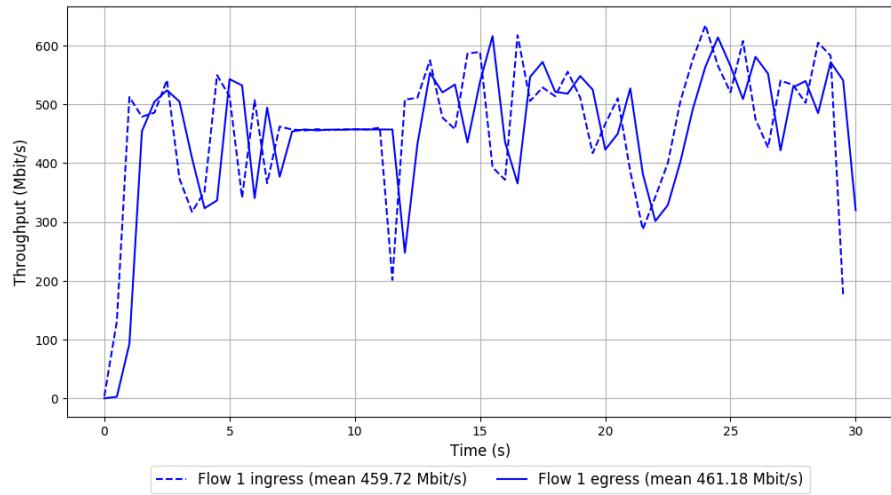


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-27 18:00:32
End at: 2019-03-27 18:01:02
Local clock offset: -0.097 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2019-03-27 18:53:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 461.18 Mbit/s
95th percentile per-packet one-way delay: 93.897 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 461.18 Mbit/s
95th percentile per-packet one-way delay: 93.897 ms
Loss rate: 0.00%
```

Run 4: Report of TCP BBR — Data Link

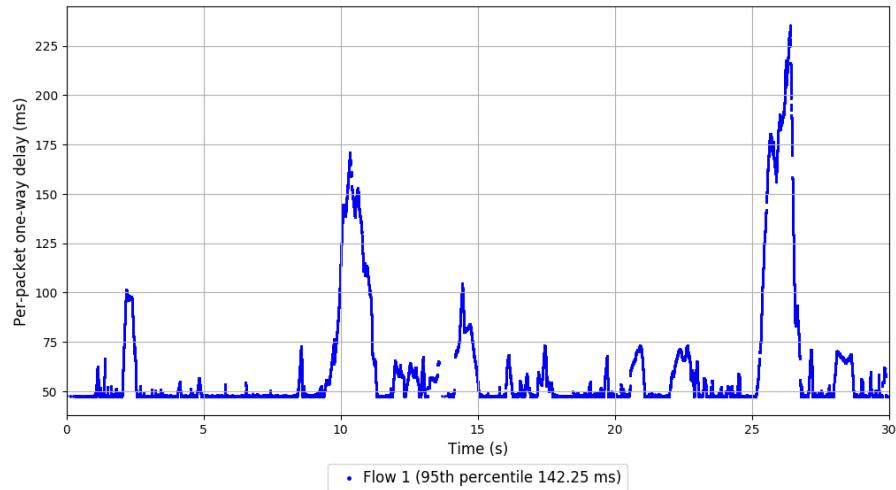
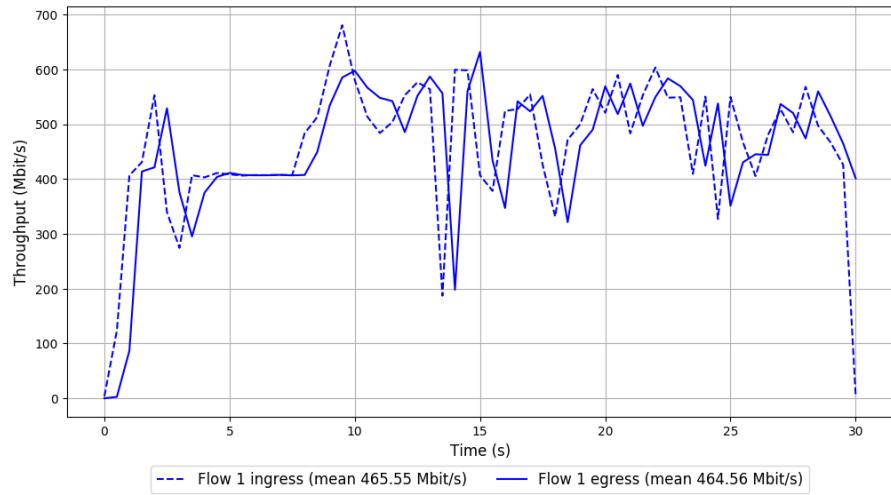


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-27 18:31:07
End at: 2019-03-27 18:31:37
Local clock offset: -0.135 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-03-27 18:53:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 464.56 Mbit/s
95th percentile per-packet one-way delay: 142.246 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 464.56 Mbit/s
95th percentile per-packet one-way delay: 142.246 ms
Loss rate: 0.53%
```

Run 5: Report of TCP BBR — Data Link

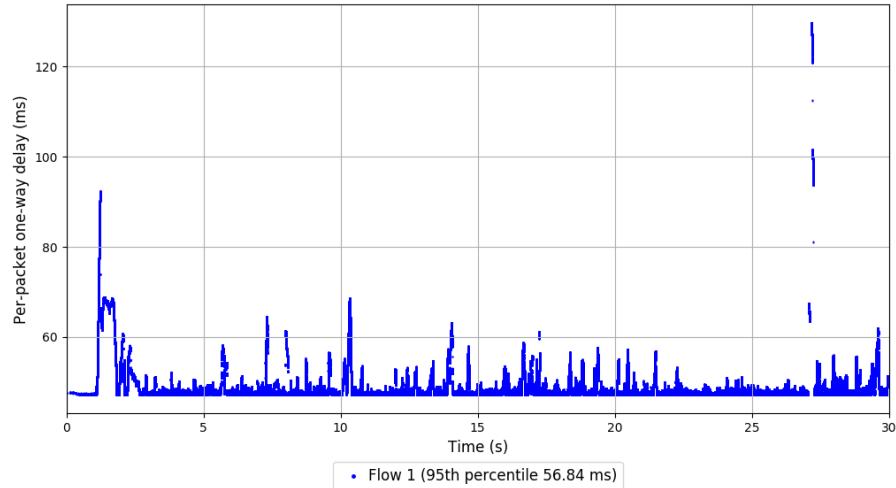
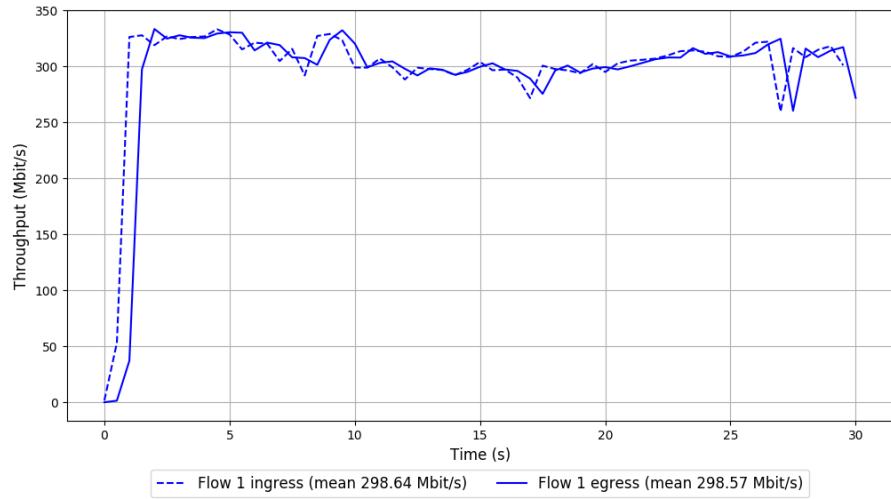


Run 1: Statistics of Copa

```
Start at: 2019-03-27 16:27:46
End at: 2019-03-27 16:28:16
Local clock offset: -0.011 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-03-27 18:54:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 298.57 Mbit/s
95th percentile per-packet one-way delay: 56.837 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 298.57 Mbit/s
95th percentile per-packet one-way delay: 56.837 ms
Loss rate: 0.34%
```

Run 1: Report of Copa — Data Link

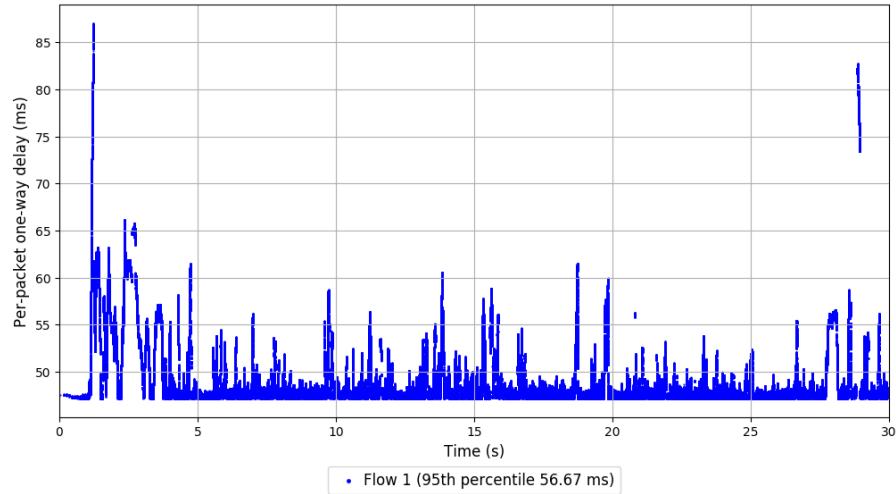
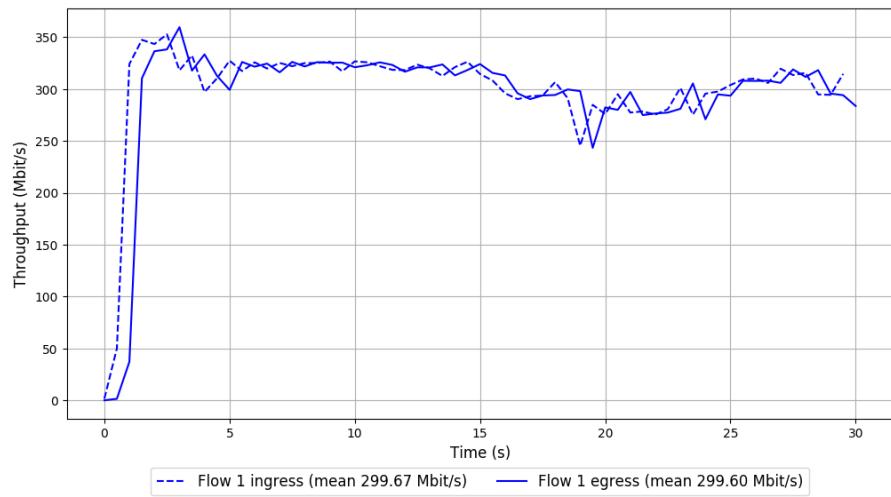


Run 2: Statistics of Copa

```
Start at: 2019-03-27 16:58:22
End at: 2019-03-27 16:58:52
Local clock offset: -0.104 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-03-27 18:55:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 299.60 Mbit/s
95th percentile per-packet one-way delay: 56.674 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 299.60 Mbit/s
95th percentile per-packet one-way delay: 56.674 ms
Loss rate: 0.34%
```

Run 2: Report of Copa — Data Link

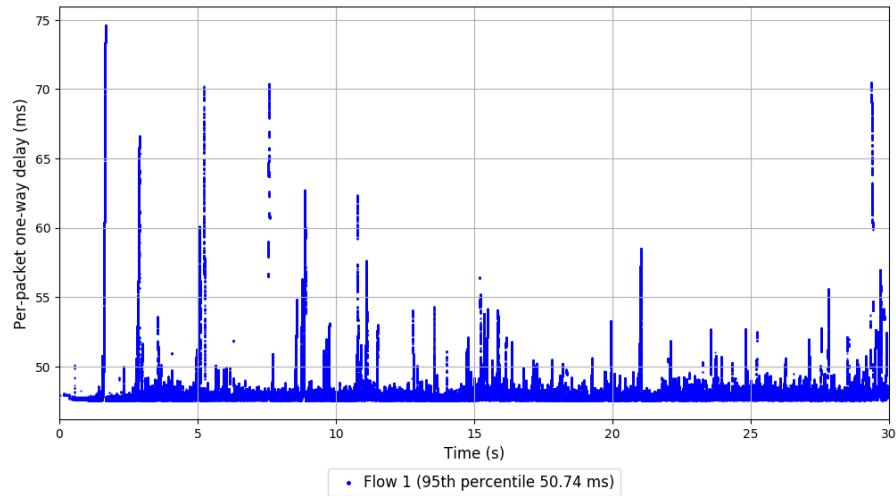
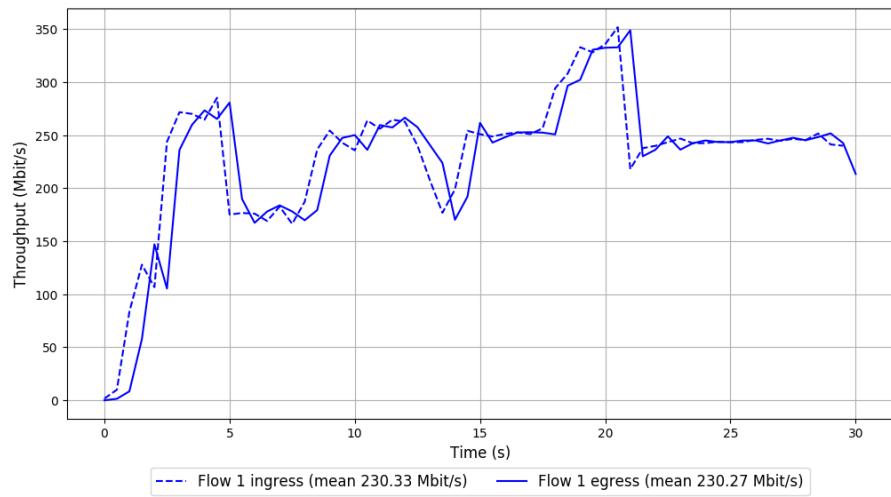


Run 3: Statistics of Copa

```
Start at: 2019-03-27 17:28:40
End at: 2019-03-27 17:29:10
Local clock offset: 0.234 ms
Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2019-03-27 18:55:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.27 Mbit/s
95th percentile per-packet one-way delay: 50.740 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 230.27 Mbit/s
95th percentile per-packet one-way delay: 50.740 ms
Loss rate: 0.34%
```

Run 3: Report of Copa — Data Link

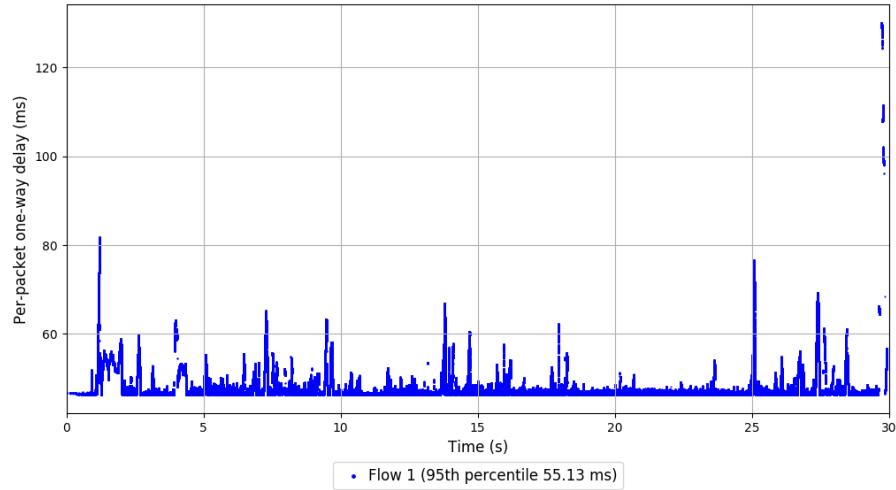
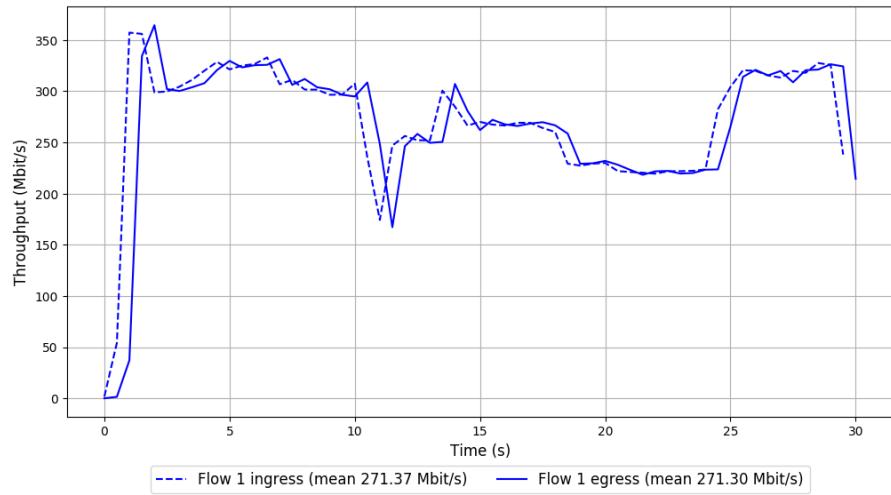


Run 4: Statistics of Copa

```
Start at: 2019-03-27 17:59:00
End at: 2019-03-27 17:59:30
Local clock offset: -0.118 ms
Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-03-27 19:02:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 271.30 Mbit/s
95th percentile per-packet one-way delay: 55.131 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 271.30 Mbit/s
95th percentile per-packet one-way delay: 55.131 ms
Loss rate: 0.34%
```

Run 4: Report of Copa — Data Link

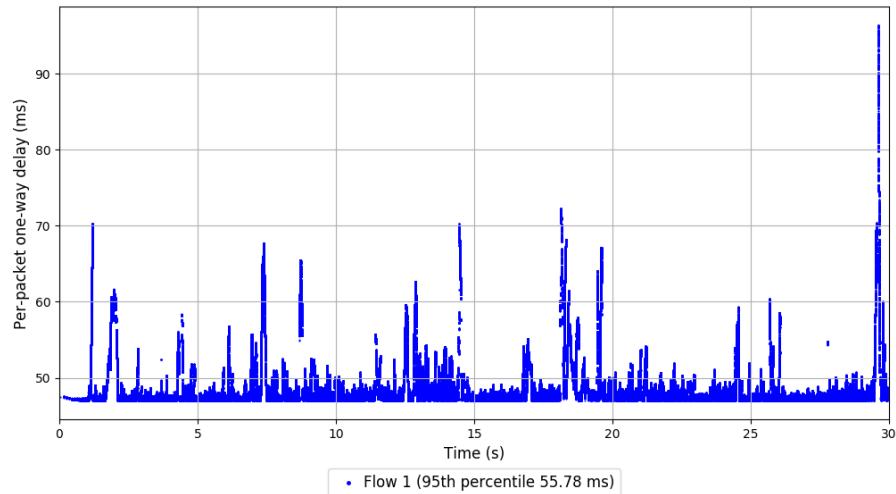
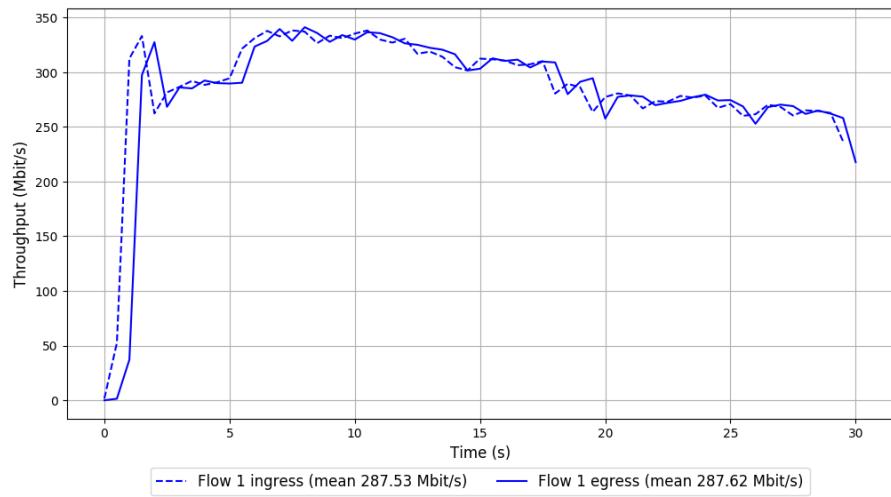


Run 5: Statistics of Copa

```
Start at: 2019-03-27 18:29:29
End at: 2019-03-27 18:29:59
Local clock offset: -0.143 ms
Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2019-03-27 19:02:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 287.62 Mbit/s
95th percentile per-packet one-way delay: 55.781 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 287.62 Mbit/s
95th percentile per-packet one-way delay: 55.781 ms
Loss rate: 0.29%
```

Run 5: Report of Copa — Data Link

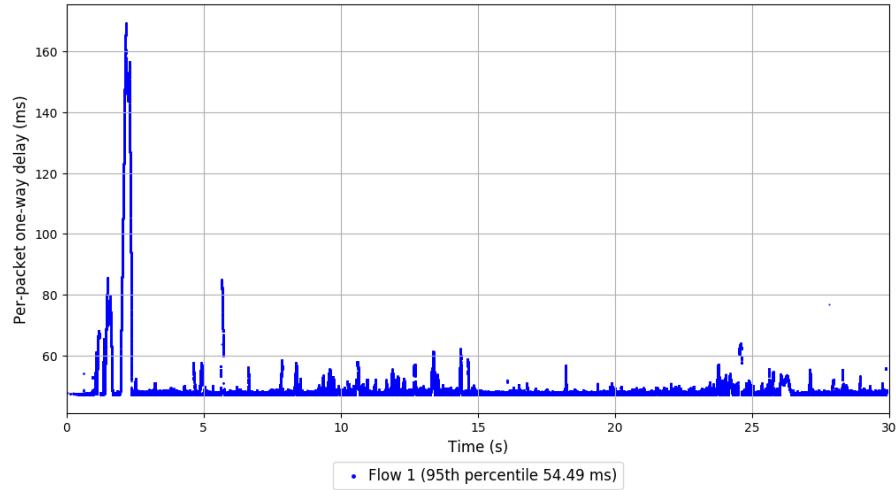
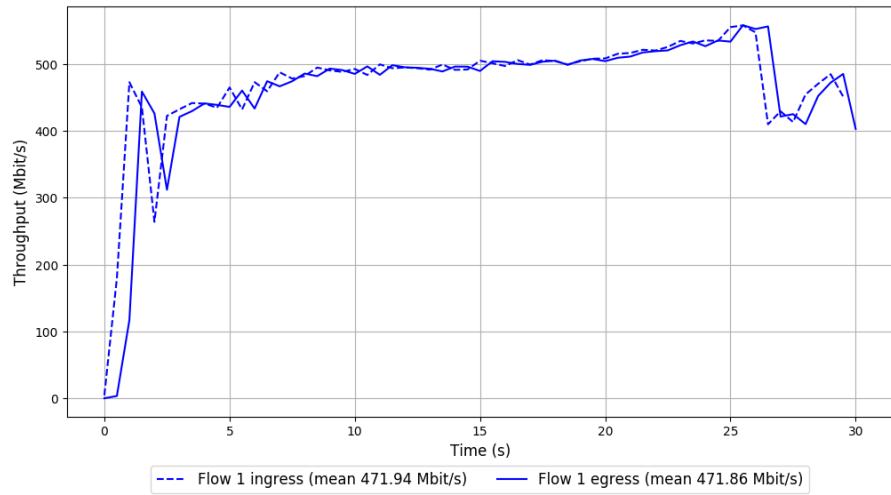


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-03-27 16:30:53
End at: 2019-03-27 16:31:23
Local clock offset: -0.012 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-03-27 19:02:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 471.86 Mbit/s
95th percentile per-packet one-way delay: 54.494 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 471.86 Mbit/s
95th percentile per-packet one-way delay: 54.494 ms
Loss rate: 0.33%
```

Run 1: Report of TCP Cubic — Data Link

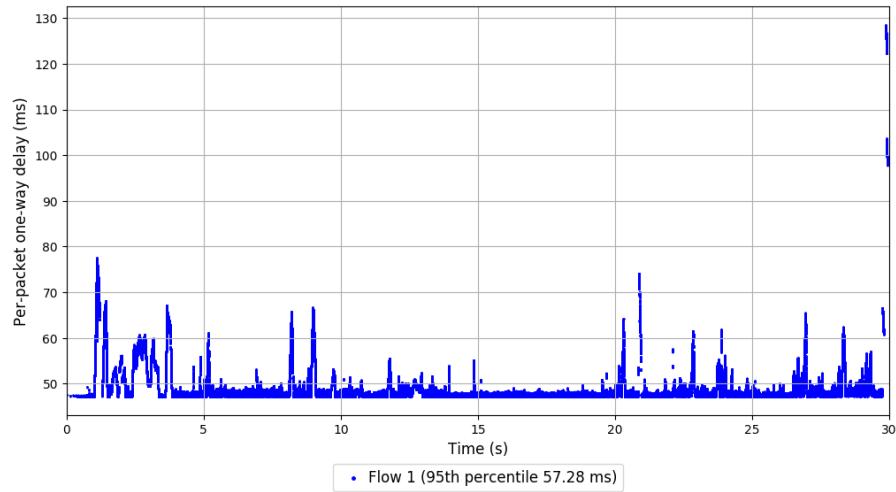
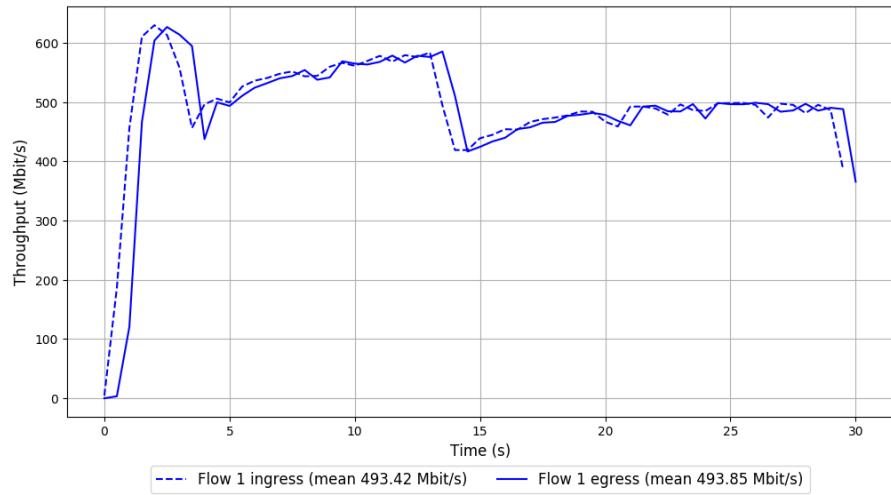


Run 2: Statistics of TCP Cubic

```
Start at: 2019-03-27 17:01:33
End at: 2019-03-27 17:02:03
Local clock offset: -0.084 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-03-27 19:02:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 493.85 Mbit/s
95th percentile per-packet one-way delay: 57.277 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 493.85 Mbit/s
95th percentile per-packet one-way delay: 57.277 ms
Loss rate: 0.23%
```

Run 2: Report of TCP Cubic — Data Link

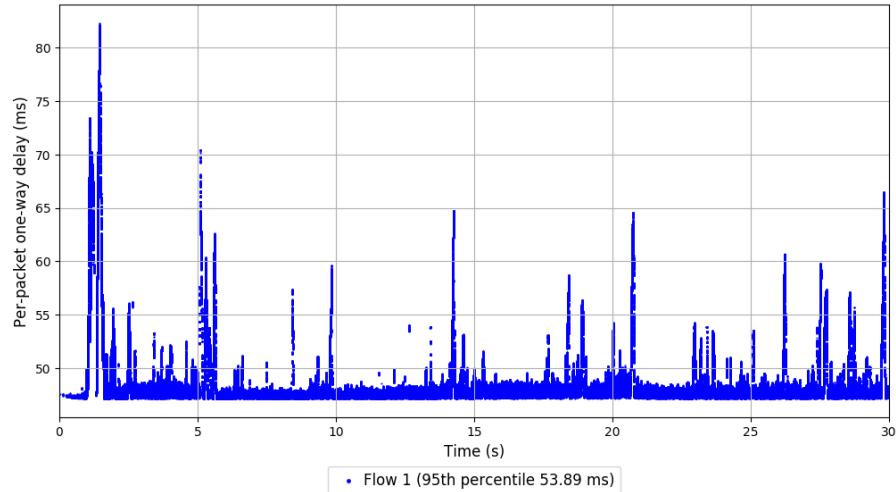
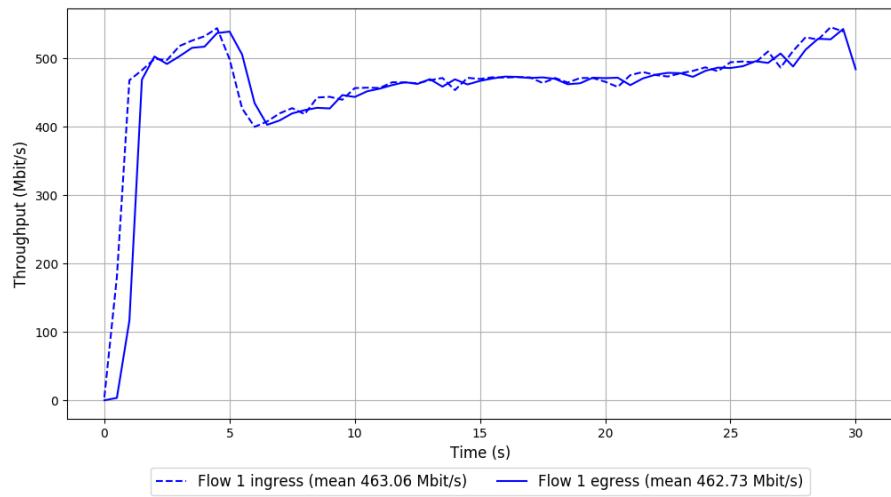


Run 3: Statistics of TCP Cubic

```
Start at: 2019-03-27 17:31:40
End at: 2019-03-27 17:32:10
Local clock offset: -0.126 ms
Remote clock offset: -0.191 ms

# Below is generated by plot.py at 2019-03-27 19:02:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 462.73 Mbit/s
95th percentile per-packet one-way delay: 53.888 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 462.73 Mbit/s
95th percentile per-packet one-way delay: 53.888 ms
Loss rate: 0.39%
```

Run 3: Report of TCP Cubic — Data Link

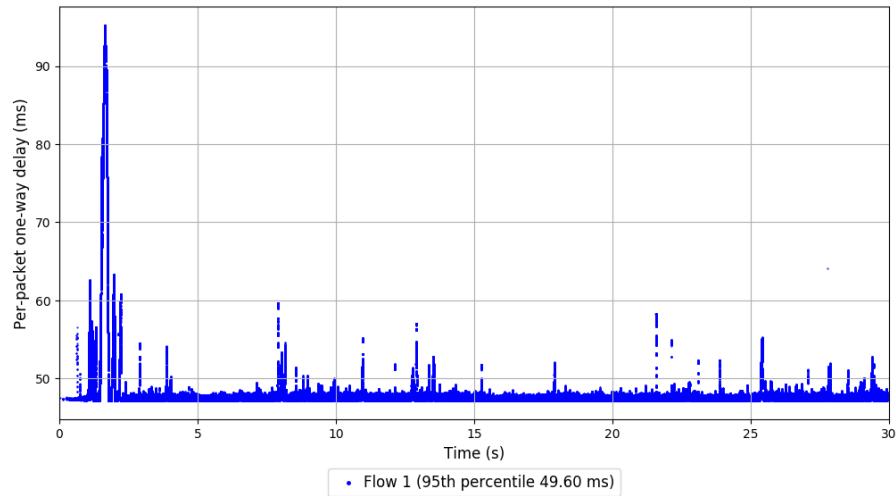
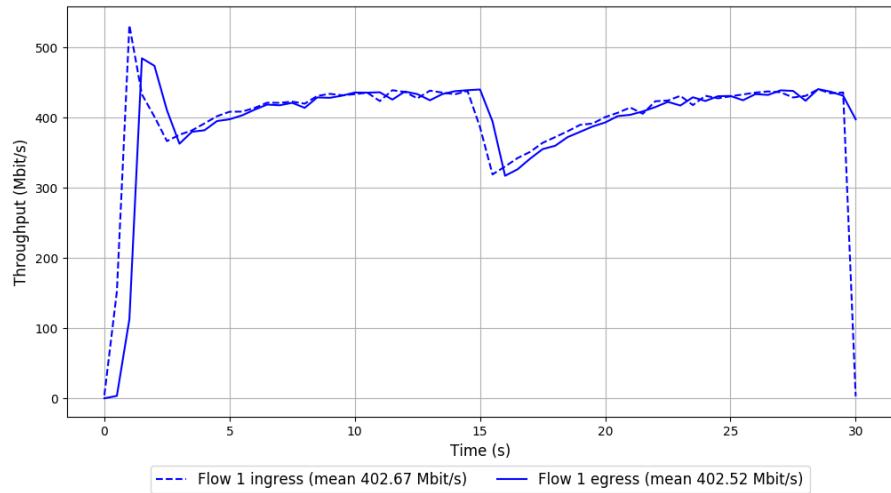


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-27 18:02:06
End at: 2019-03-27 18:02:36
Local clock offset: -0.119 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-03-27 19:02:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 402.52 Mbit/s
95th percentile per-packet one-way delay: 49.603 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 402.52 Mbit/s
95th percentile per-packet one-way delay: 49.603 ms
Loss rate: 0.35%
```

Run 4: Report of TCP Cubic — Data Link

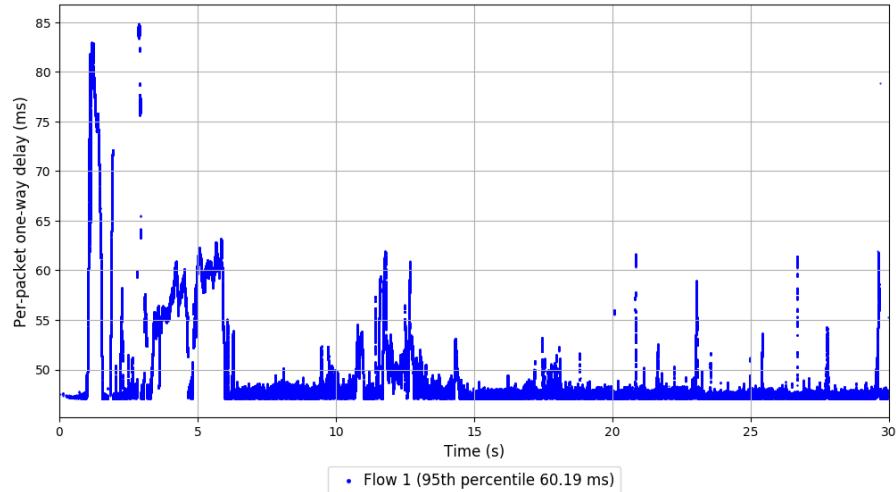
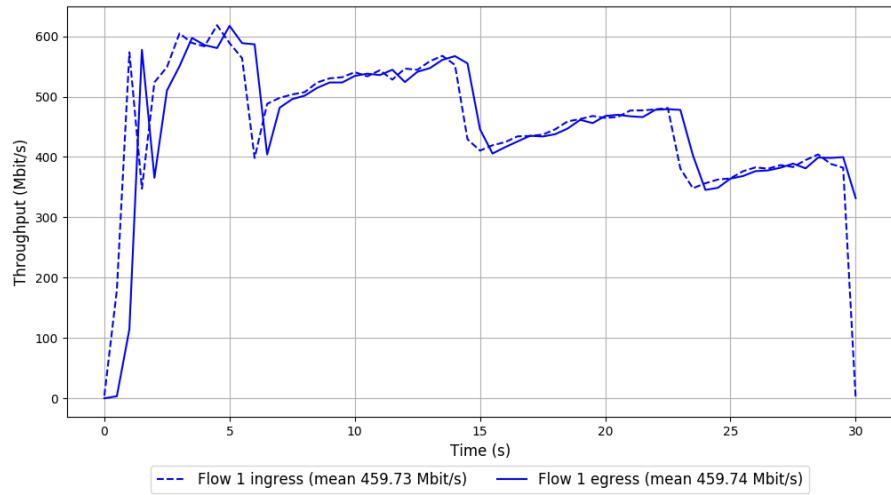


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-27 18:32:45
End at: 2019-03-27 18:33:15
Local clock offset: -0.131 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-03-27 19:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 459.74 Mbit/s
95th percentile per-packet one-way delay: 60.187 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 459.74 Mbit/s
95th percentile per-packet one-way delay: 60.187 ms
Loss rate: 0.28%
```

Run 5: Report of TCP Cubic — Data Link

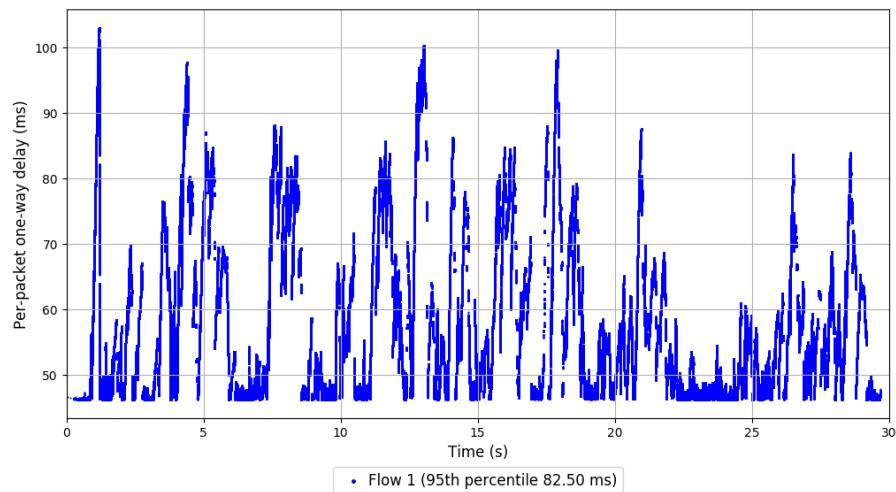
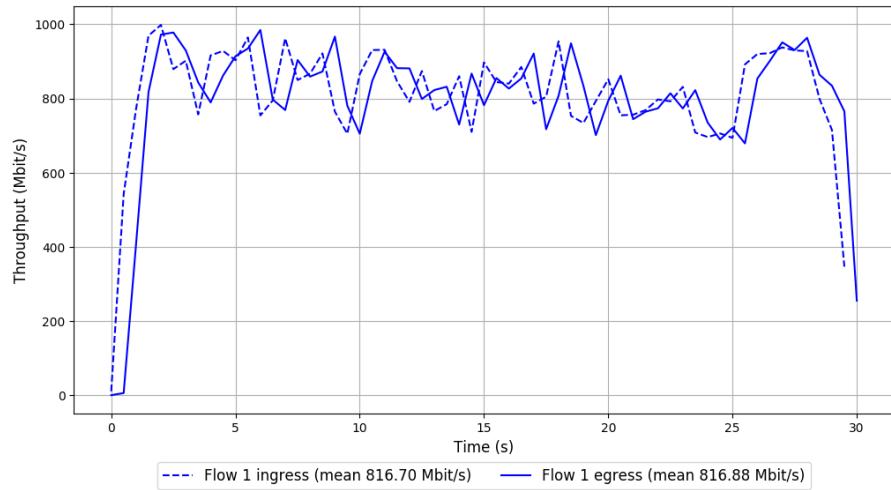


```
Run 1: Statistics of FillP
```

```
Start at: 2019-03-27 16:09:46
End at: 2019-03-27 16:10:16
Local clock offset: -0.026 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-03-27 19:11:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 816.88 Mbit/s
95th percentile per-packet one-way delay: 82.504 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 816.88 Mbit/s
95th percentile per-packet one-way delay: 82.504 ms
Loss rate: 0.30%
```

Run 1: Report of FillP — Data Link

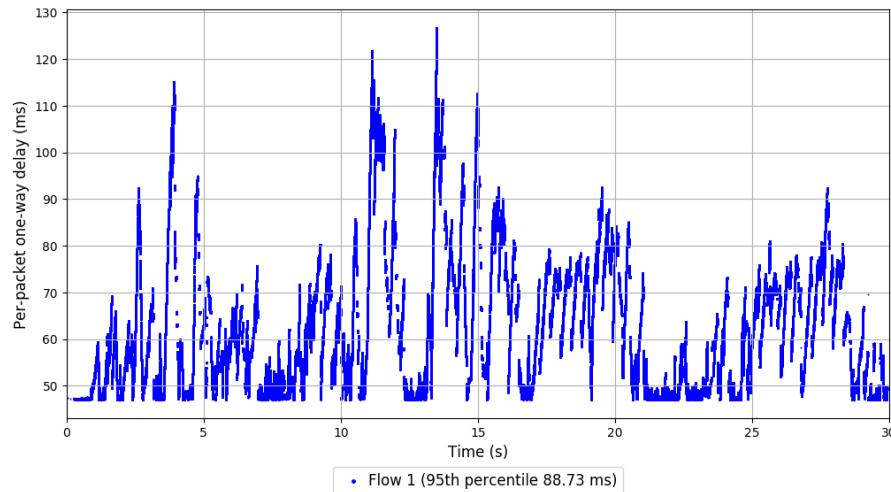
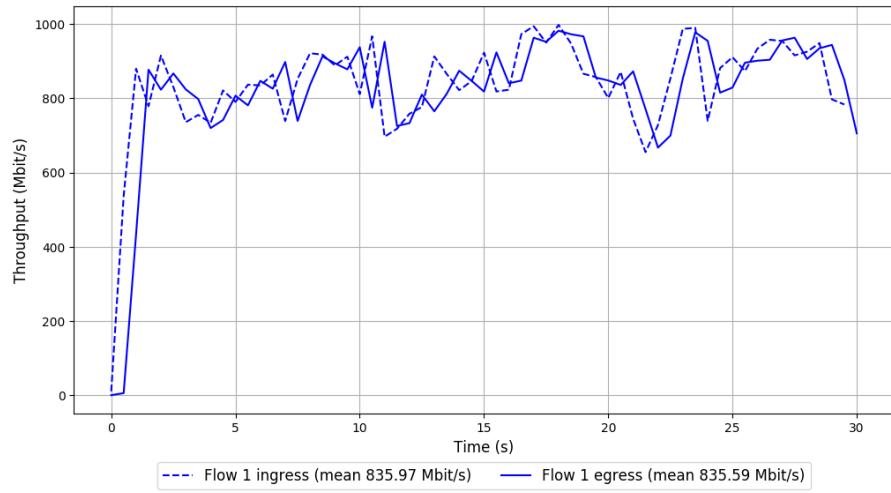


Run 2: Statistics of FillP

```
Start at: 2019-03-27 16:40:28
End at: 2019-03-27 16:40:58
Local clock offset: -0.03 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-03-27 19:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 835.59 Mbit/s
95th percentile per-packet one-way delay: 88.735 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 835.59 Mbit/s
95th percentile per-packet one-way delay: 88.735 ms
Loss rate: 0.36%
```

Run 2: Report of FillP — Data Link

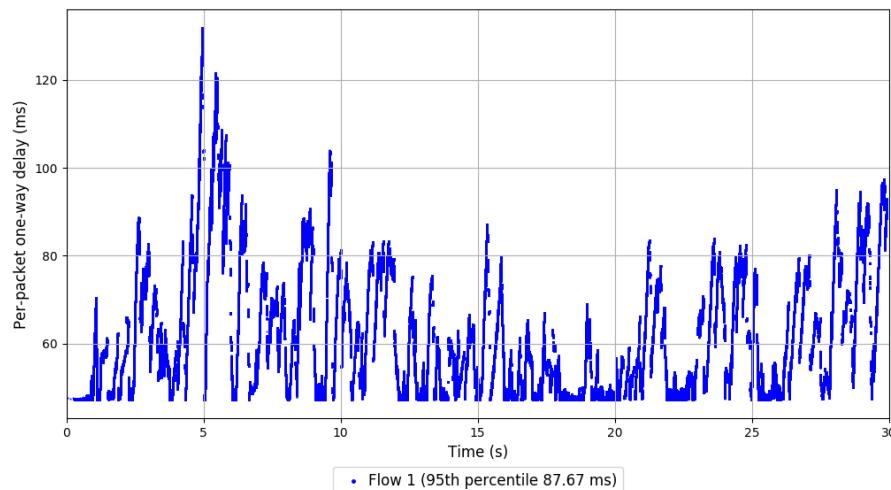
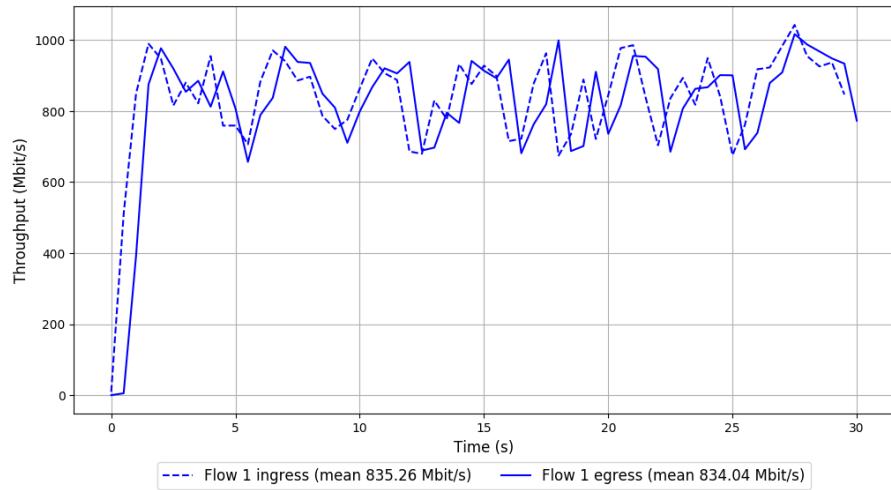


Run 3: Statistics of FillP

```
Start at: 2019-03-27 17:11:13
End at: 2019-03-27 17:11:43
Local clock offset: -0.089 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2019-03-27 19:20:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 834.04 Mbit/s
95th percentile per-packet one-way delay: 87.675 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 834.04 Mbit/s
95th percentile per-packet one-way delay: 87.675 ms
Loss rate: 0.47%
```

Run 3: Report of FillP — Data Link

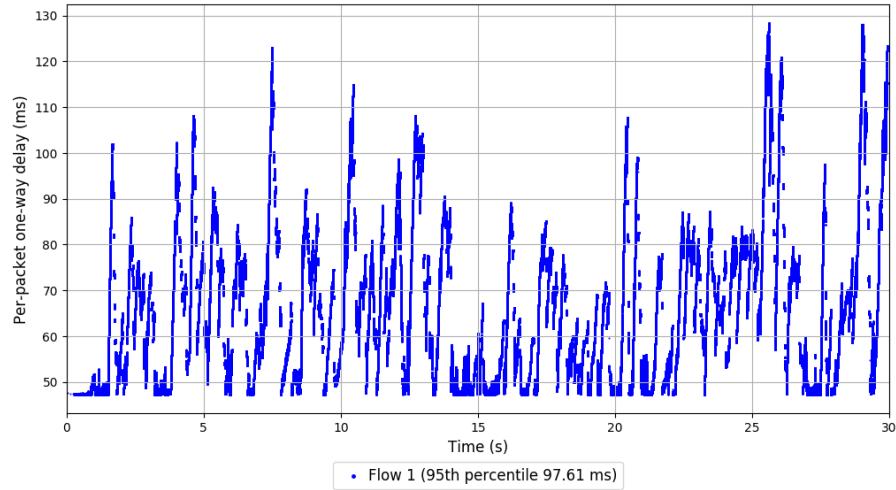
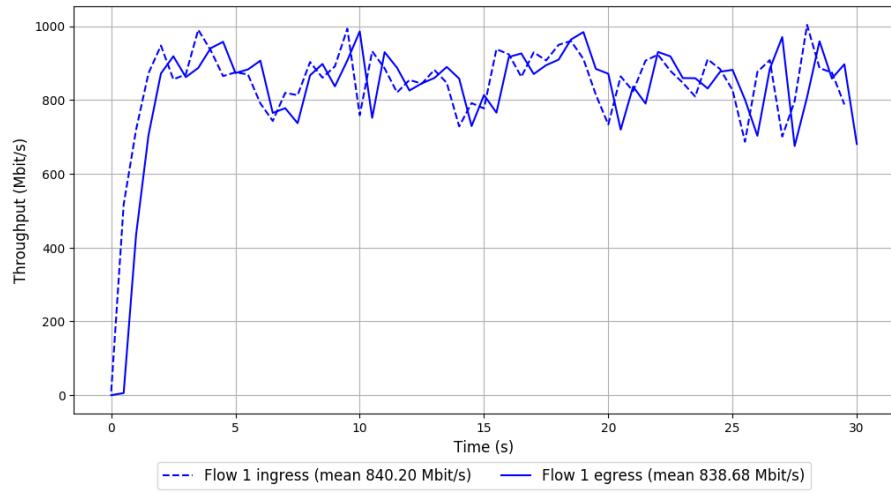


Run 4: Statistics of FillP

```
Start at: 2019-03-27 17:41:15
End at: 2019-03-27 17:41:45
Local clock offset: -0.094 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-03-27 19:21:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 838.68 Mbit/s
95th percentile per-packet one-way delay: 97.614 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 838.68 Mbit/s
95th percentile per-packet one-way delay: 97.614 ms
Loss rate: 0.50%
```

Run 4: Report of FillP — Data Link

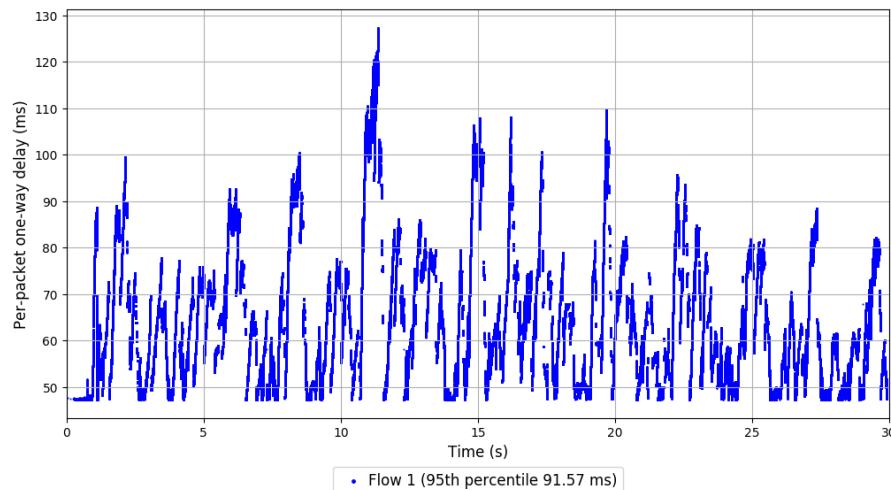
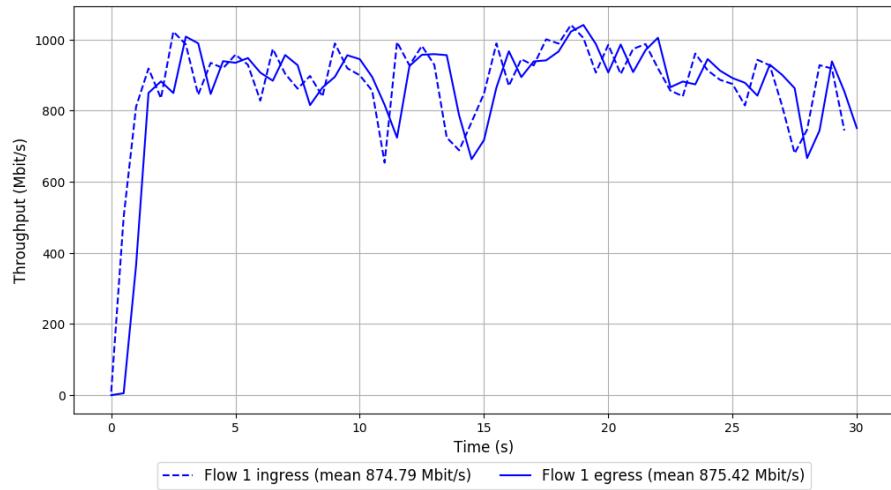


```
Run 5: Statistics of FillP
```

```
Start at: 2019-03-27 18:11:36
End at: 2019-03-27 18:12:06
Local clock offset: -0.088 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2019-03-27 19:21:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 875.42 Mbit/s
95th percentile per-packet one-way delay: 91.573 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 875.42 Mbit/s
95th percentile per-packet one-way delay: 91.573 ms
Loss rate: 0.25%
```

Run 5: Report of FillP — Data Link

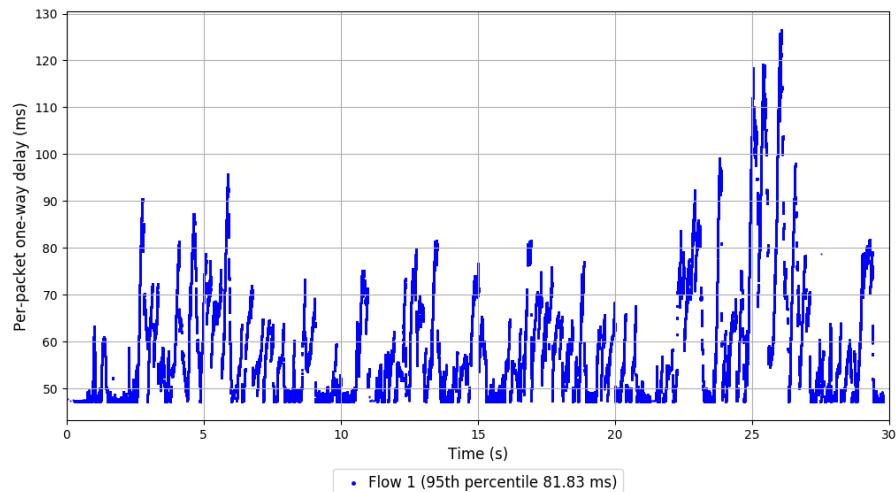
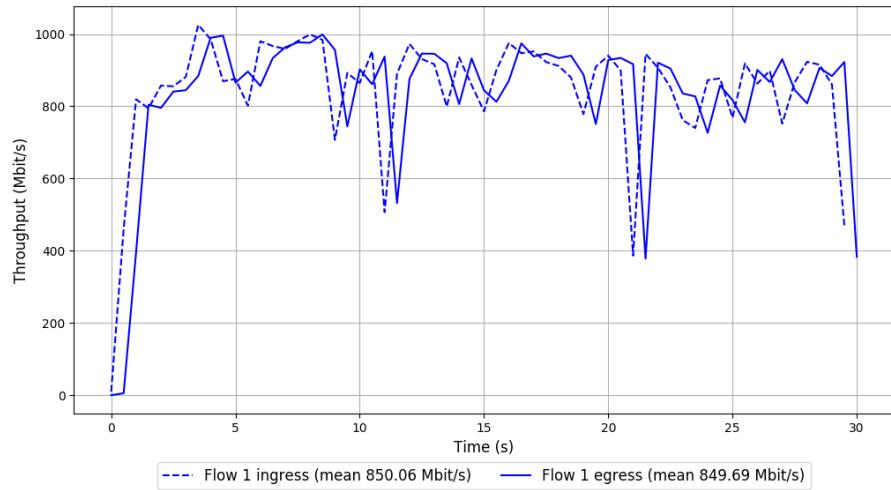


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-03-27 16:23:29
End at: 2019-03-27 16:23:59
Local clock offset: -0.01 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-03-27 19:21:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 849.69 Mbit/s
95th percentile per-packet one-way delay: 81.829 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 849.69 Mbit/s
95th percentile per-packet one-way delay: 81.829 ms
Loss rate: 0.36%
```

Run 1: Report of FillP-Sheep — Data Link

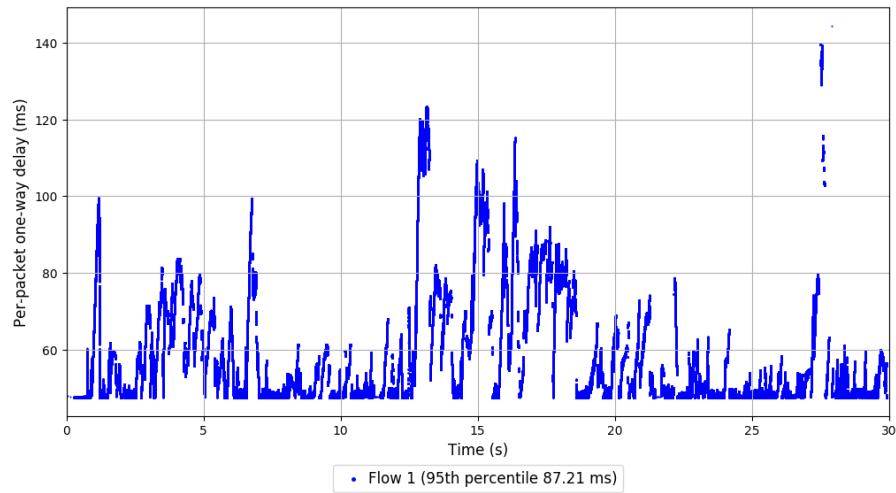
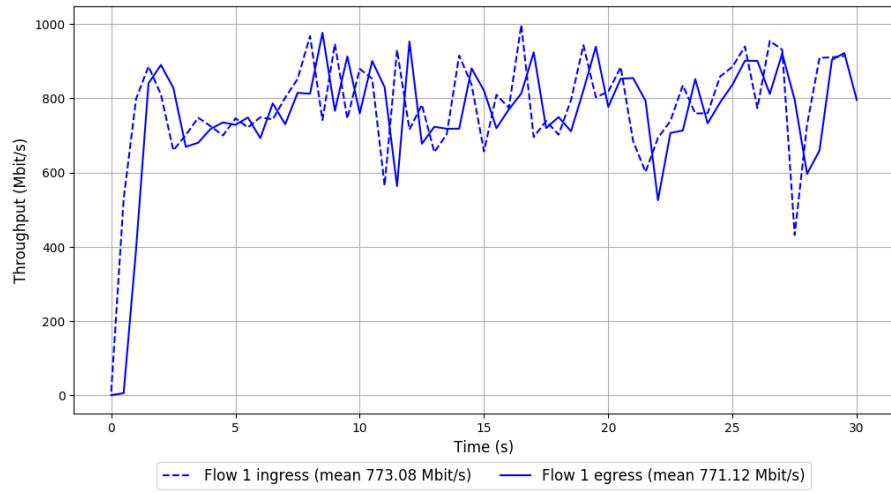


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-27 16:54:05
End at: 2019-03-27 16:54:35
Local clock offset: -0.036 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-03-27 19:21:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 771.12 Mbit/s
95th percentile per-packet one-way delay: 87.208 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 771.12 Mbit/s
95th percentile per-packet one-way delay: 87.208 ms
Loss rate: 0.57%
```

Run 2: Report of FillP-Sheep — Data Link

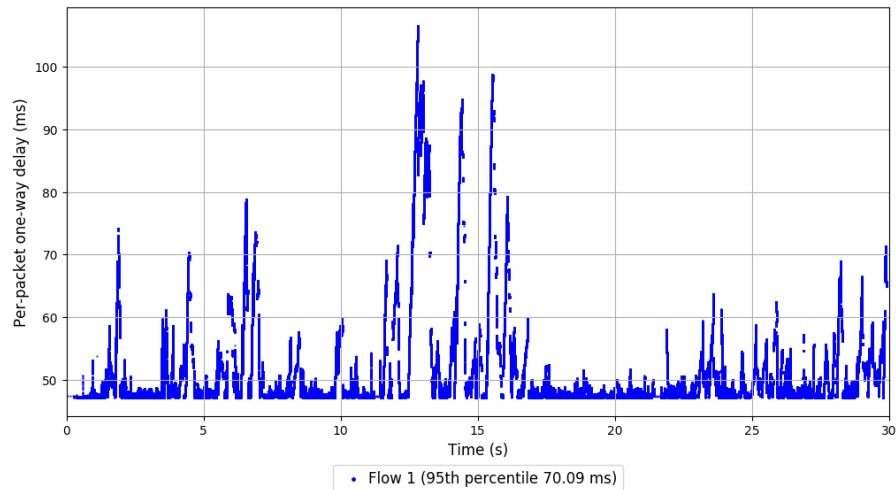
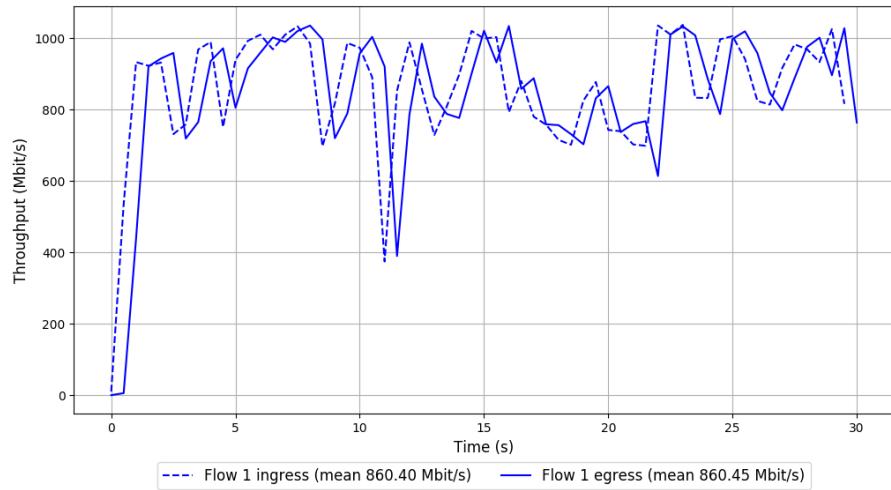


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-27 17:24:22
End at: 2019-03-27 17:24:52
Local clock offset: -0.086 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2019-03-27 19:22:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 860.45 Mbit/s
95th percentile per-packet one-way delay: 70.088 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 860.45 Mbit/s
95th percentile per-packet one-way delay: 70.088 ms
Loss rate: 0.31%
```

Run 3: Report of FillP-Sheep — Data Link

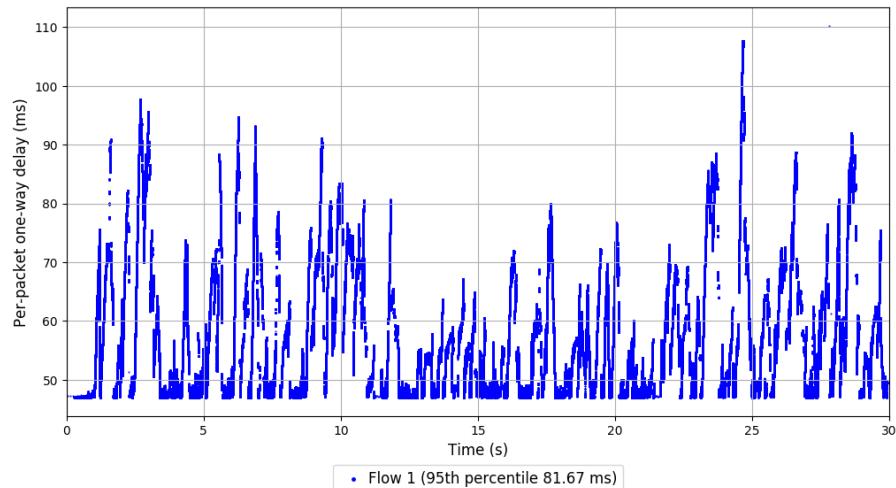
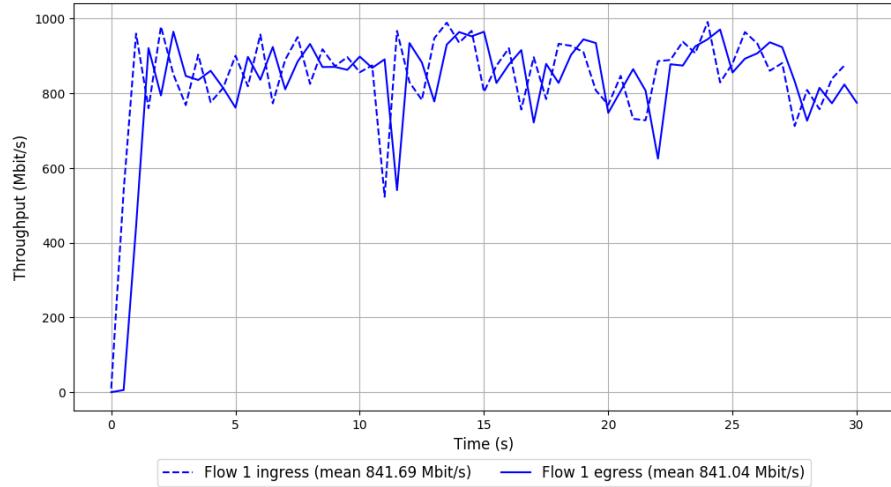


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-27 17:54:48
End at: 2019-03-27 17:55:18
Local clock offset: -0.125 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-03-27 19:33:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 841.04 Mbit/s
95th percentile per-packet one-way delay: 81.675 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 841.04 Mbit/s
95th percentile per-packet one-way delay: 81.675 ms
Loss rate: 0.40%
```

Run 4: Report of FillP-Sheep — Data Link

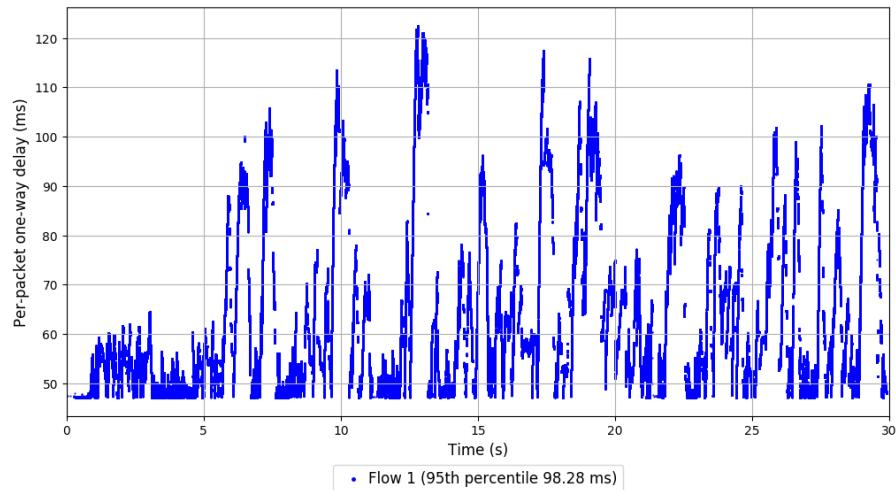
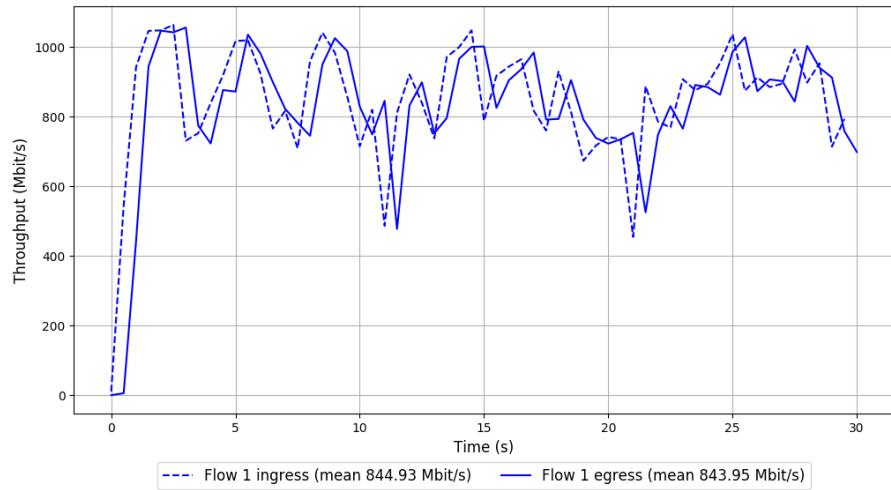


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-27 18:24:59
End at: 2019-03-27 18:25:29
Local clock offset: -0.143 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-03-27 19:39:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 843.95 Mbit/s
95th percentile per-packet one-way delay: 98.276 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 843.95 Mbit/s
95th percentile per-packet one-way delay: 98.276 ms
Loss rate: 0.44%
```

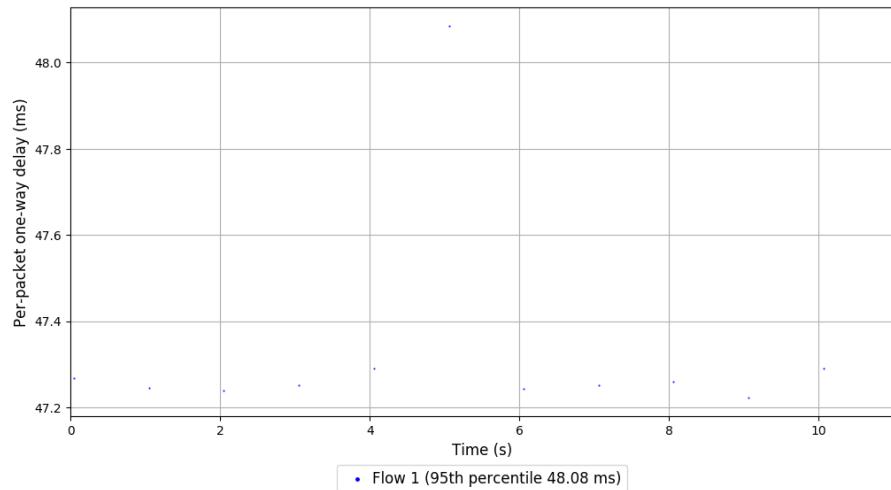
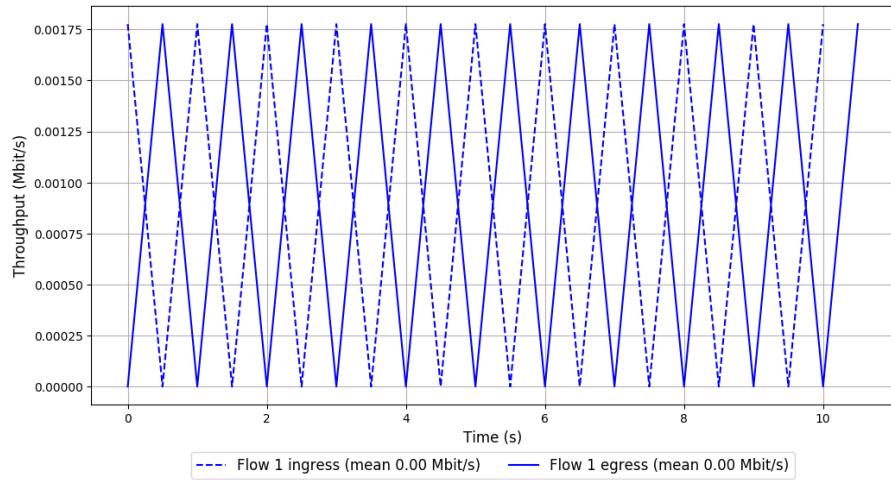
Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-03-27 16:04:57
End at: 2019-03-27 16:05:27
Local clock offset: -0.047 ms
Remote clock offset: -0.093 ms

Run 1: Report of Indigo — Data Link

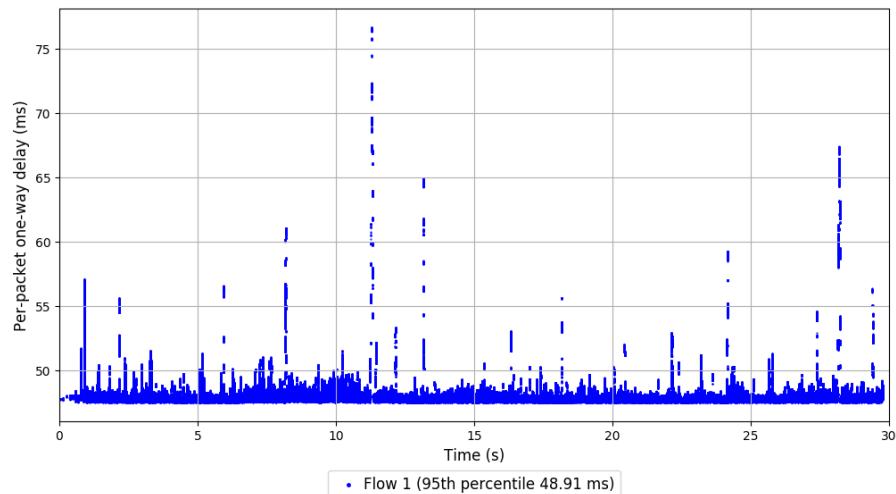
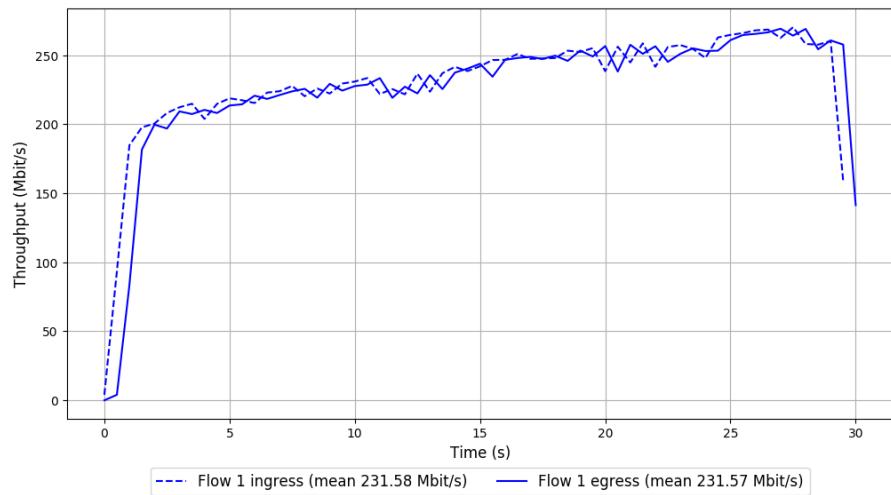


Run 2: Statistics of Indigo

```
Start at: 2019-03-27 16:35:15
End at: 2019-03-27 16:35:45
Local clock offset: -0.039 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-03-27 19:39:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.57 Mbit/s
95th percentile per-packet one-way delay: 48.913 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 231.57 Mbit/s
95th percentile per-packet one-way delay: 48.913 ms
Loss rate: 0.33%
```

Run 2: Report of Indigo — Data Link

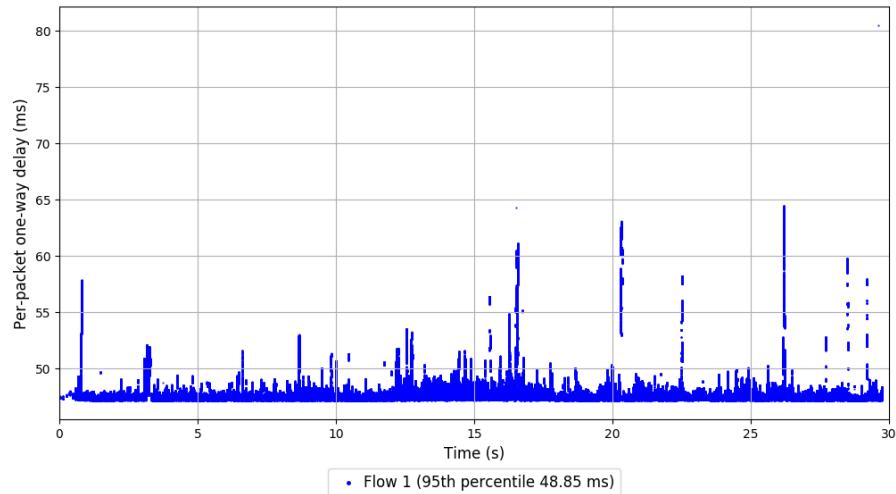
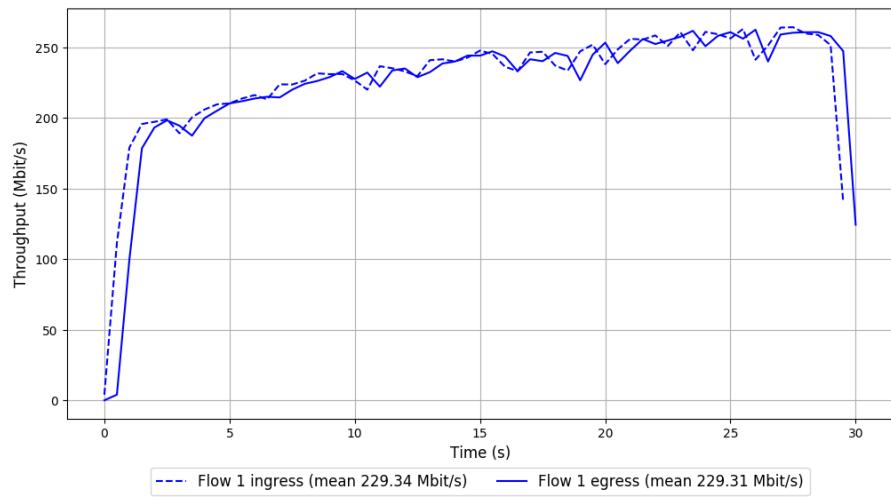


Run 3: Statistics of Indigo

```
Start at: 2019-03-27 17:06:01
End at: 2019-03-27 17:06:31
Local clock offset: -0.06 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-03-27 19:39:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.31 Mbit/s
95th percentile per-packet one-way delay: 48.849 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 229.31 Mbit/s
95th percentile per-packet one-way delay: 48.849 ms
Loss rate: 0.33%
```

Run 3: Report of Indigo — Data Link

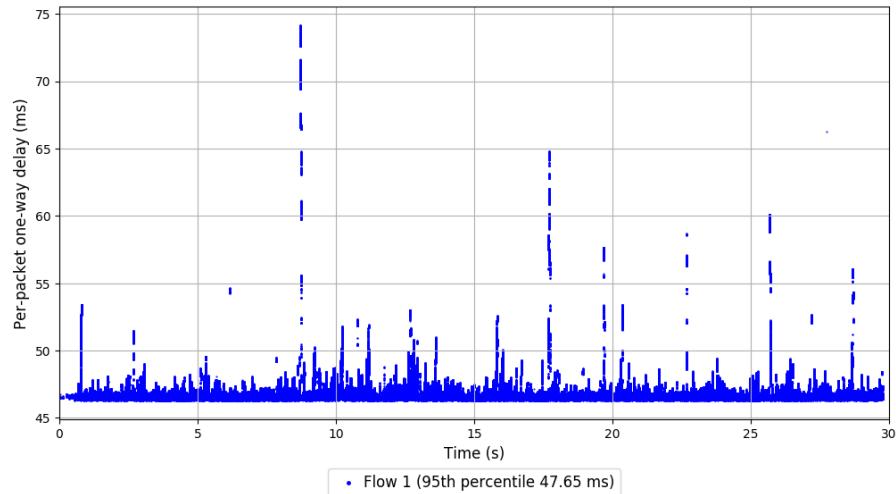
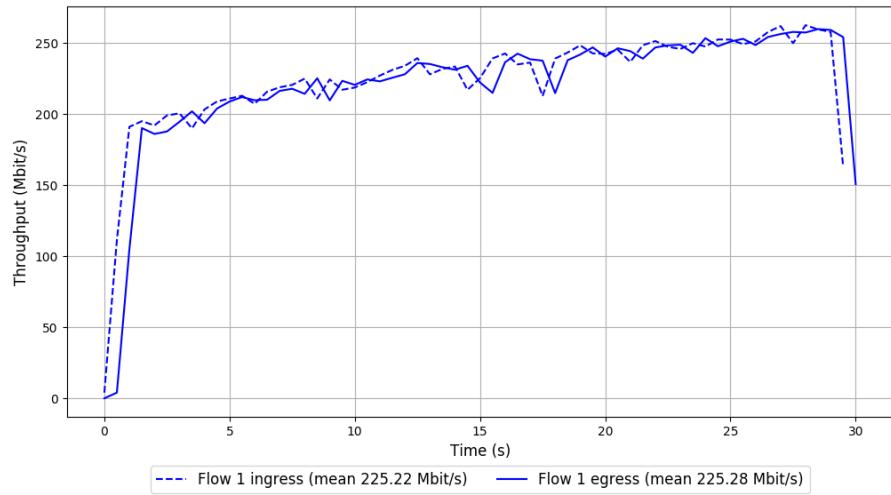


Run 4: Statistics of Indigo

```
Start at: 2019-03-27 17:36:05
End at: 2019-03-27 17:36:35
Local clock offset: -0.113 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-03-27 19:39:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.28 Mbit/s
95th percentile per-packet one-way delay: 47.649 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 225.28 Mbit/s
95th percentile per-packet one-way delay: 47.649 ms
Loss rate: 0.29%
```

Run 4: Report of Indigo — Data Link

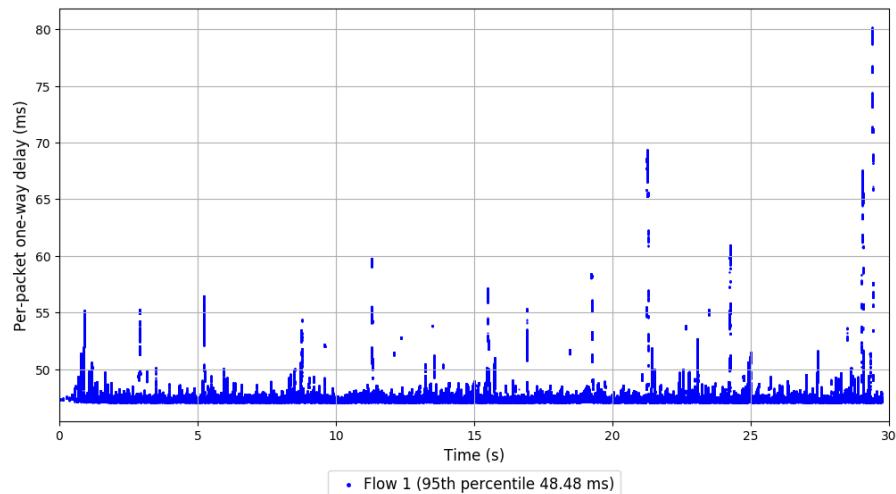
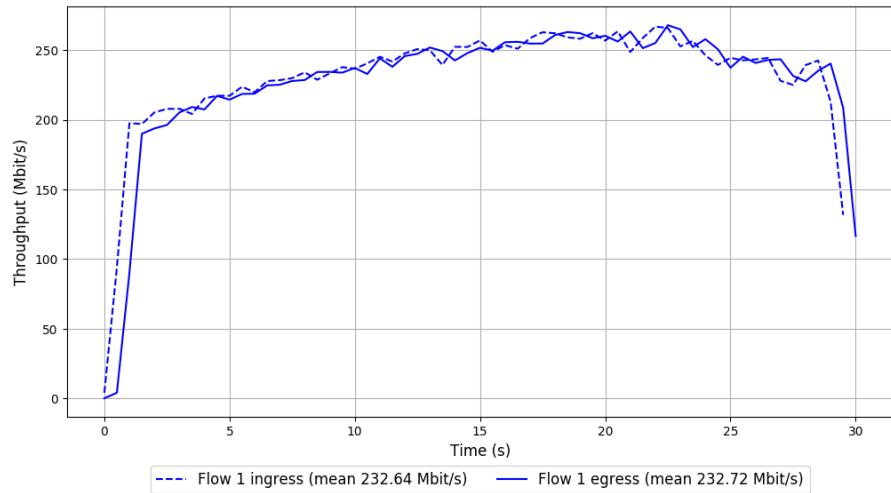


Run 5: Statistics of Indigo

```
Start at: 2019-03-27 18:06:24
End at: 2019-03-27 18:06:54
Local clock offset: -0.084 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-03-27 19:39:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.72 Mbit/s
95th percentile per-packet one-way delay: 48.482 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 232.72 Mbit/s
95th percentile per-packet one-way delay: 48.482 ms
Loss rate: 0.32%
```

Run 5: Report of Indigo — Data Link

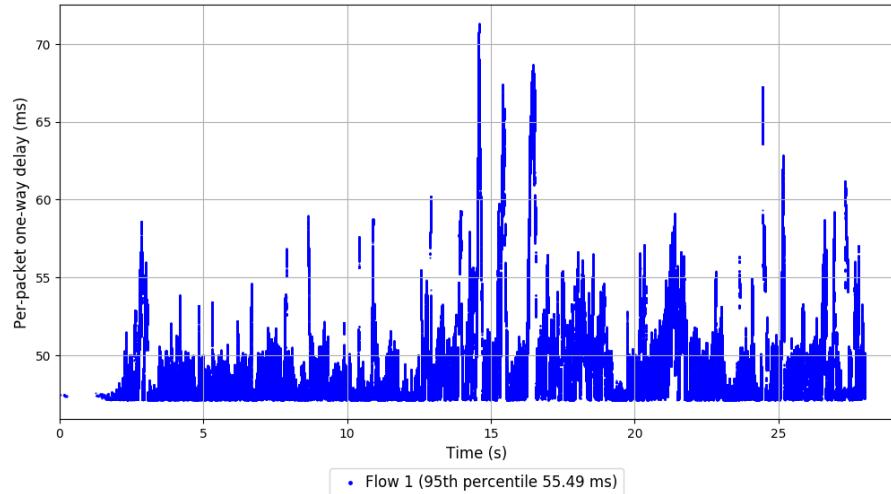
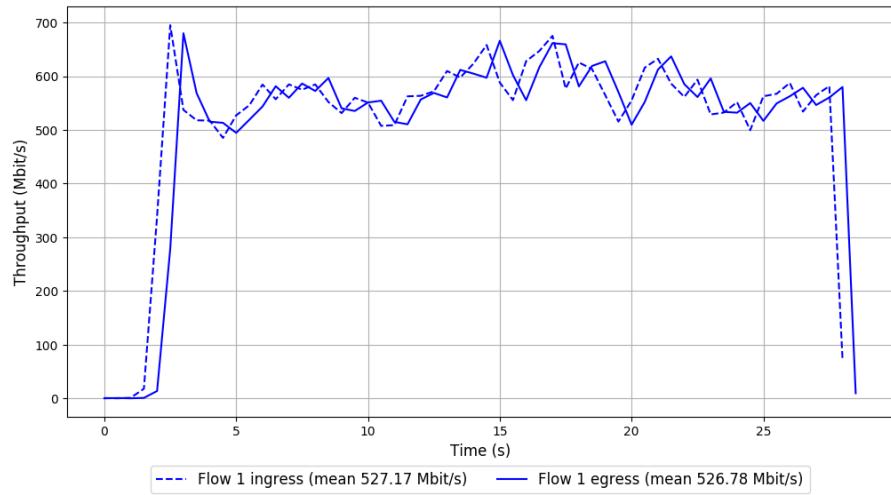


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 16:12:38
End at: 2019-03-27 16:13:08
Local clock offset: -0.036 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-03-27 19:39:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 526.78 Mbit/s
95th percentile per-packet one-way delay: 55.488 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 526.78 Mbit/s
95th percentile per-packet one-way delay: 55.488 ms
Loss rate: 0.42%
```

Run 1: Report of Indigo-MusesC3 — Data Link

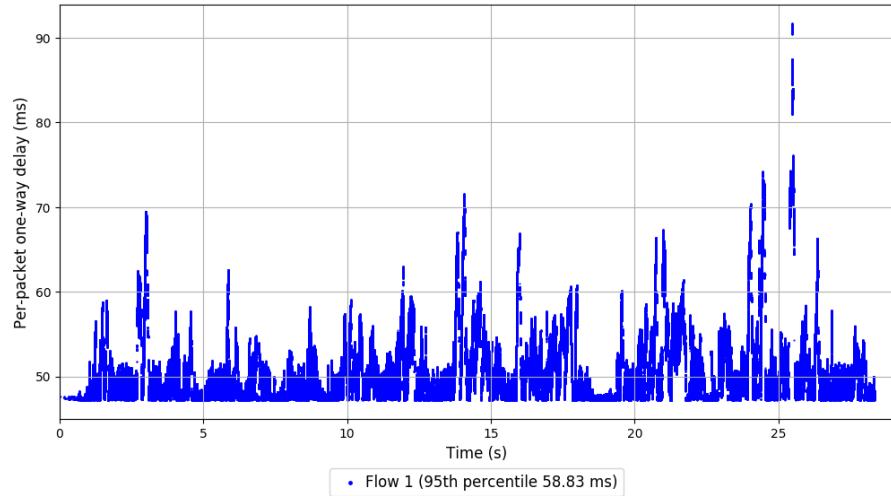
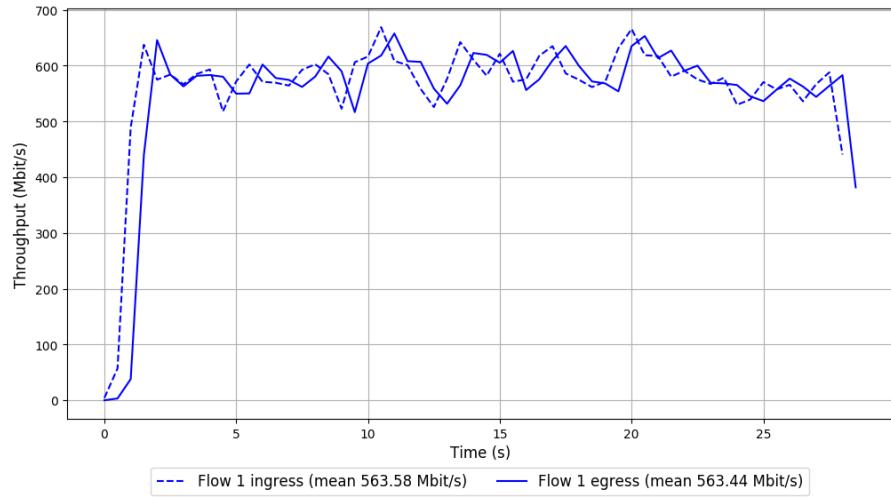


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 16:43:19
End at: 2019-03-27 16:43:49
Local clock offset: -0.058 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-03-27 19:39:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 563.44 Mbit/s
95th percentile per-packet one-way delay: 58.833 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 563.44 Mbit/s
95th percentile per-packet one-way delay: 58.833 ms
Loss rate: 0.36%
```

Run 2: Report of Indigo-MusesC3 — Data Link

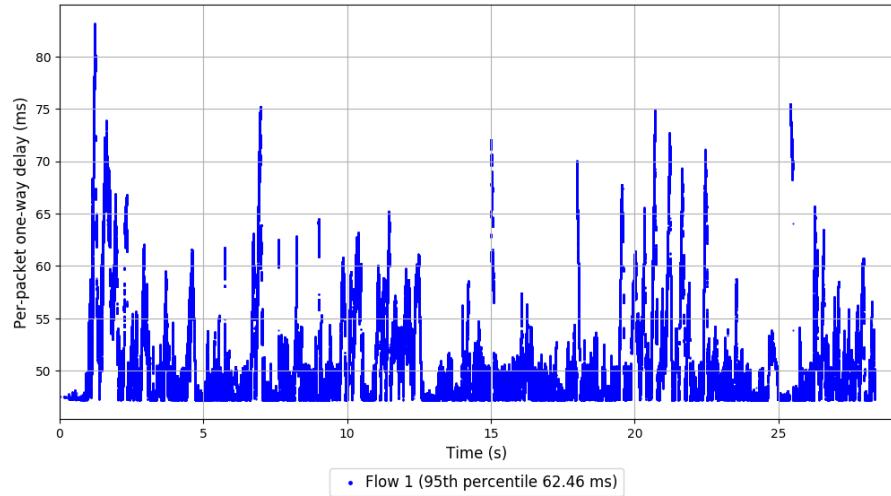
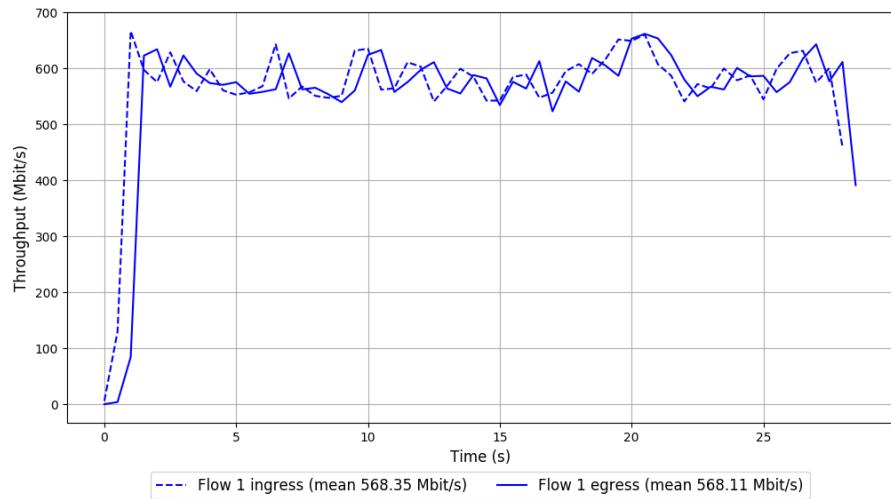


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 17:14:03
End at: 2019-03-27 17:14:33
Local clock offset: -0.081 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-03-27 19:39:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 568.11 Mbit/s
95th percentile per-packet one-way delay: 62.456 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 568.11 Mbit/s
95th percentile per-packet one-way delay: 62.456 ms
Loss rate: 0.37%
```

Run 3: Report of Indigo-MusesC3 — Data Link

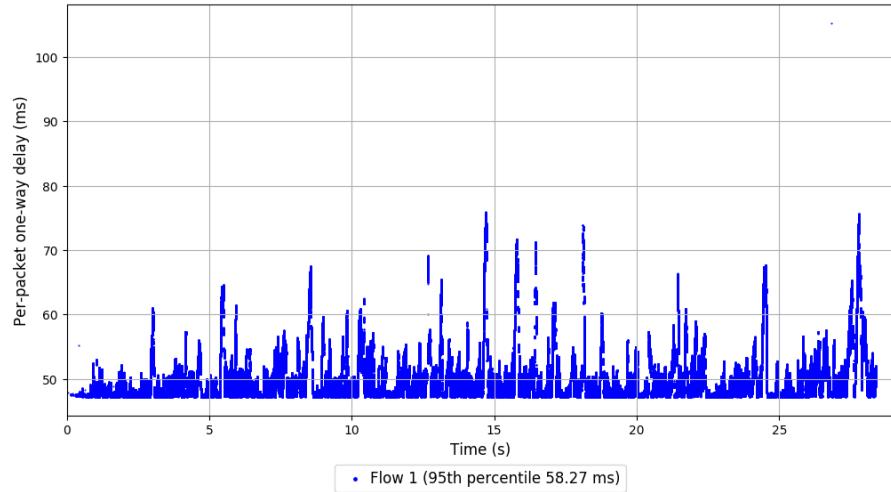
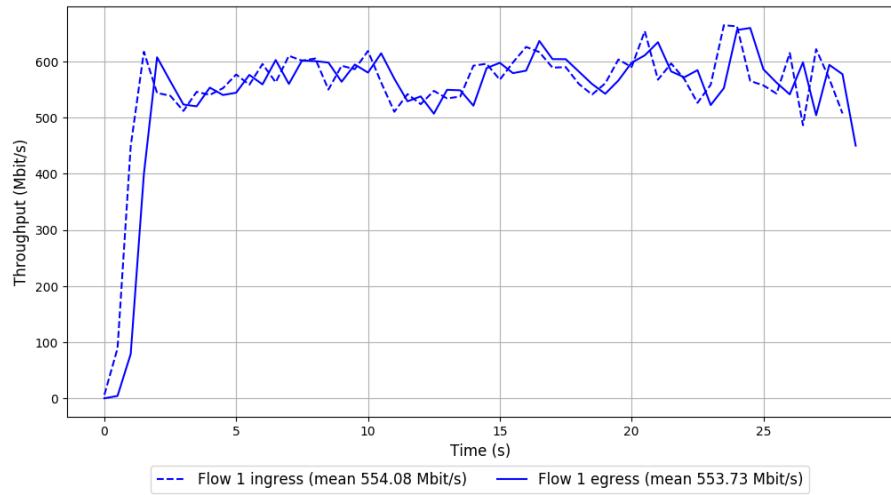


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 17:44:06
End at: 2019-03-27 17:44:36
Local clock offset: -0.106 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-03-27 19:39:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 553.73 Mbit/s
95th percentile per-packet one-way delay: 58.272 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 553.73 Mbit/s
95th percentile per-packet one-way delay: 58.272 ms
Loss rate: 0.40%
```

Run 4: Report of Indigo-MusesC3 — Data Link

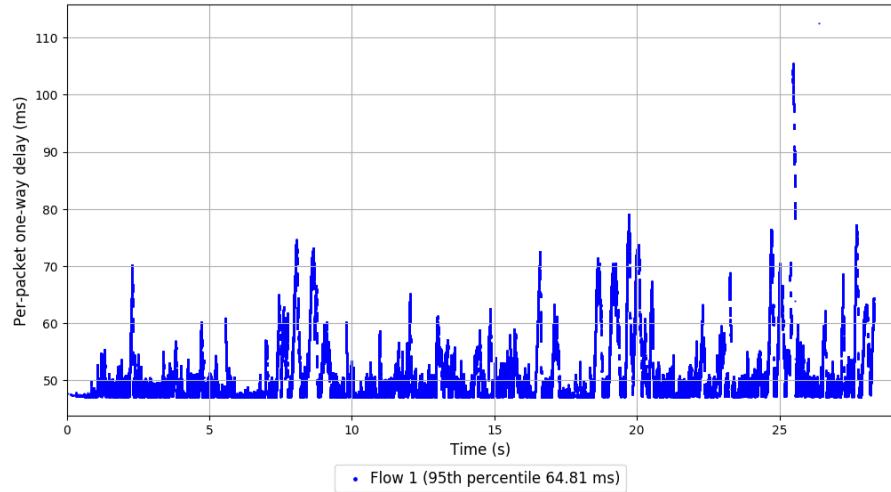
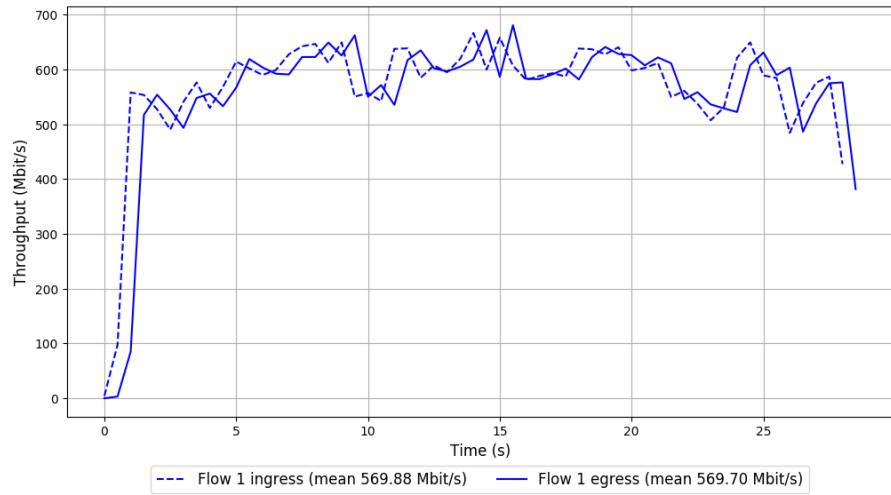


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 18:14:26
End at: 2019-03-27 18:14:56
Local clock offset: -0.129 ms
Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2019-03-27 19:39:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 569.70 Mbit/s
95th percentile per-packet one-way delay: 64.807 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 569.70 Mbit/s
95th percentile per-packet one-way delay: 64.807 ms
Loss rate: 0.37%
```

Run 5: Report of Indigo-MusesC3 — Data Link

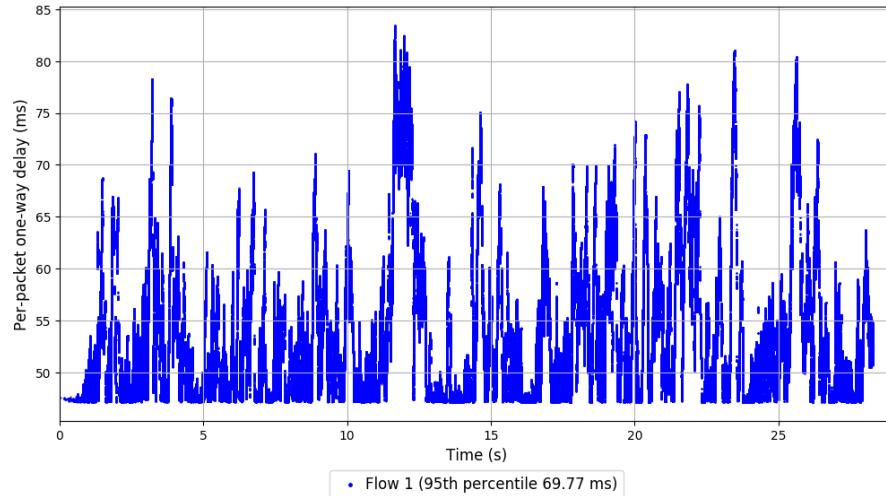
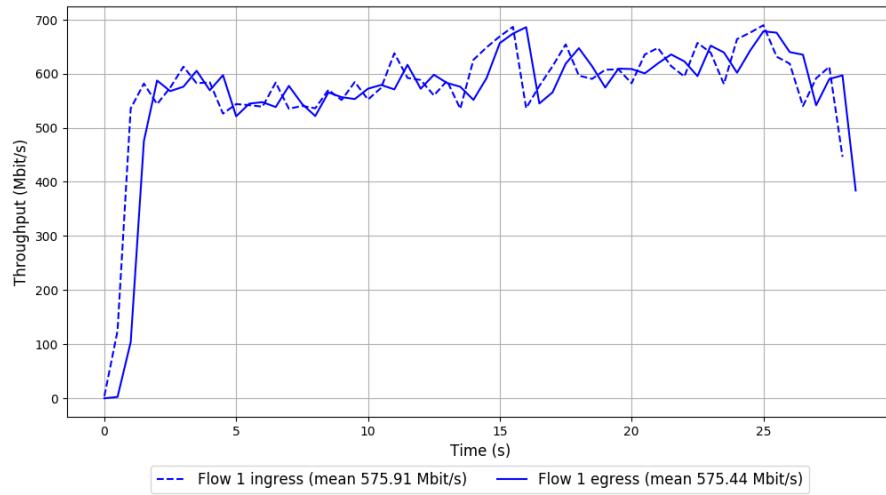


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 16:20:18
End at: 2019-03-27 16:20:48
Local clock offset: -0.041 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-03-27 19:40:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 575.44 Mbit/s
95th percentile per-packet one-way delay: 69.768 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 575.44 Mbit/s
95th percentile per-packet one-way delay: 69.768 ms
Loss rate: 0.43%
```

Run 1: Report of Indigo-MusesC5 — Data Link

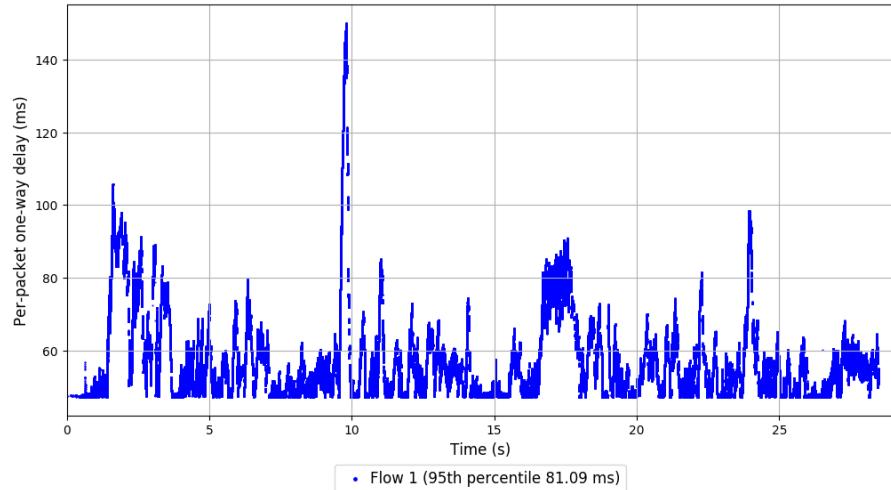
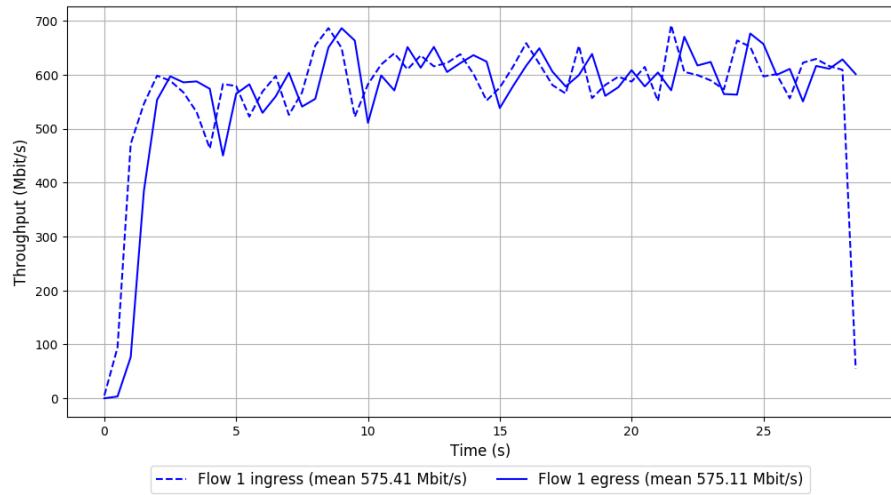


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 16:50:45
End at: 2019-03-27 16:51:15
Local clock offset: -0.087 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-03-27 19:42:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 575.11 Mbit/s
95th percentile per-packet one-way delay: 81.088 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 575.11 Mbit/s
95th percentile per-packet one-way delay: 81.088 ms
Loss rate: 0.39%
```

Run 2: Report of Indigo-MusesC5 — Data Link

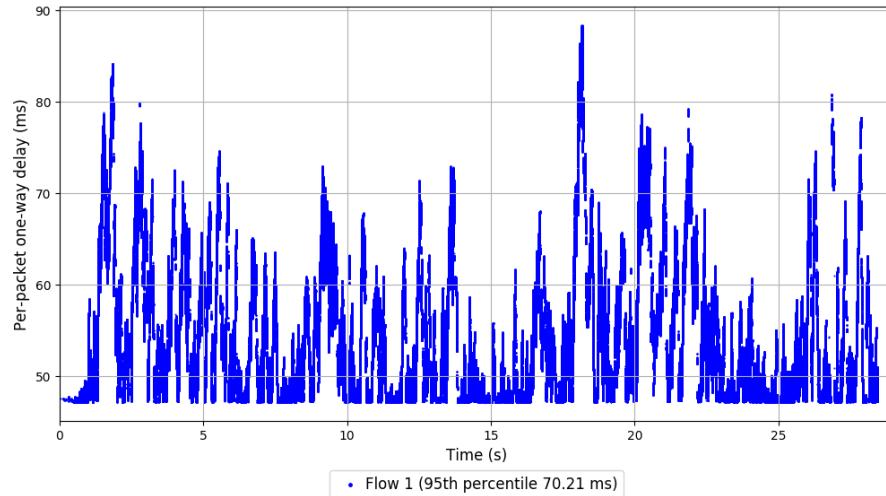
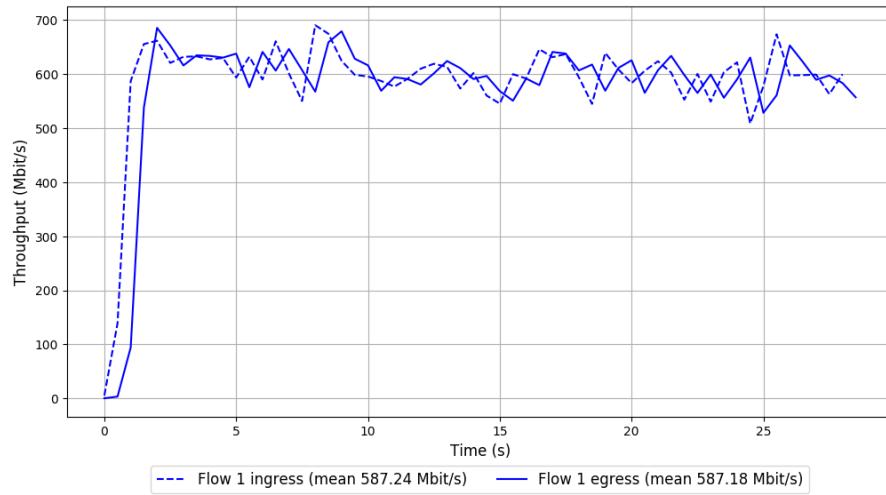


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 17:21:19
End at: 2019-03-27 17:21:49
Local clock offset: -0.078 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-03-27 19:44:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 587.18 Mbit/s
95th percentile per-packet one-way delay: 70.210 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 587.18 Mbit/s
95th percentile per-packet one-way delay: 70.210 ms
Loss rate: 0.25%
```

Run 3: Report of Indigo-MusesC5 — Data Link

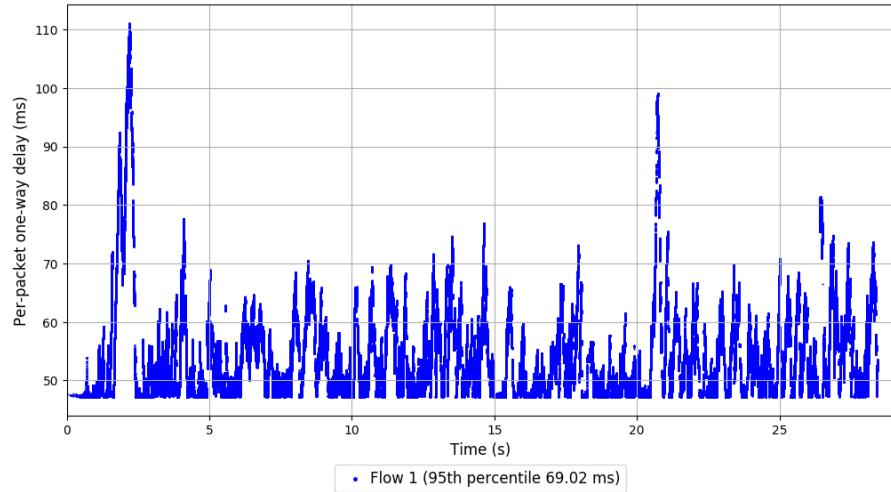
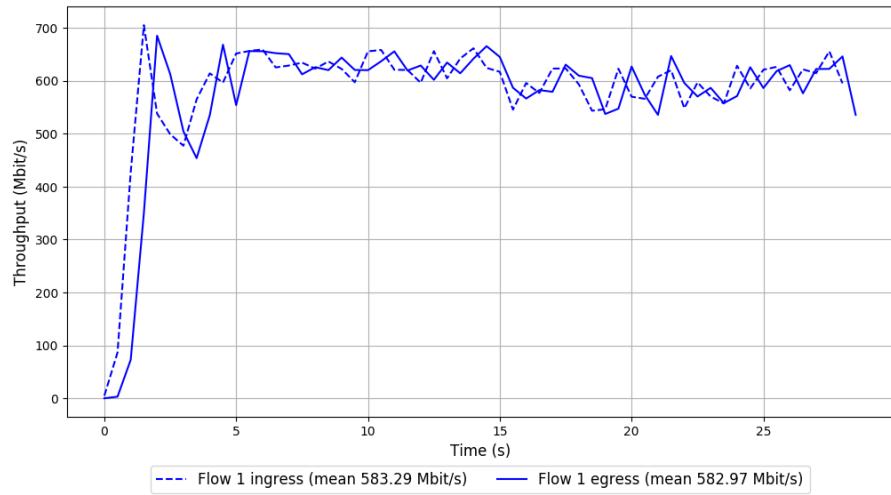


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 17:51:31
End at: 2019-03-27 17:52:01
Local clock offset: -0.1 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-03-27 19:44:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 582.97 Mbit/s
95th percentile per-packet one-way delay: 69.017 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 582.97 Mbit/s
95th percentile per-packet one-way delay: 69.017 ms
Loss rate: 0.39%
```

Run 4: Report of Indigo-MusesC5 — Data Link

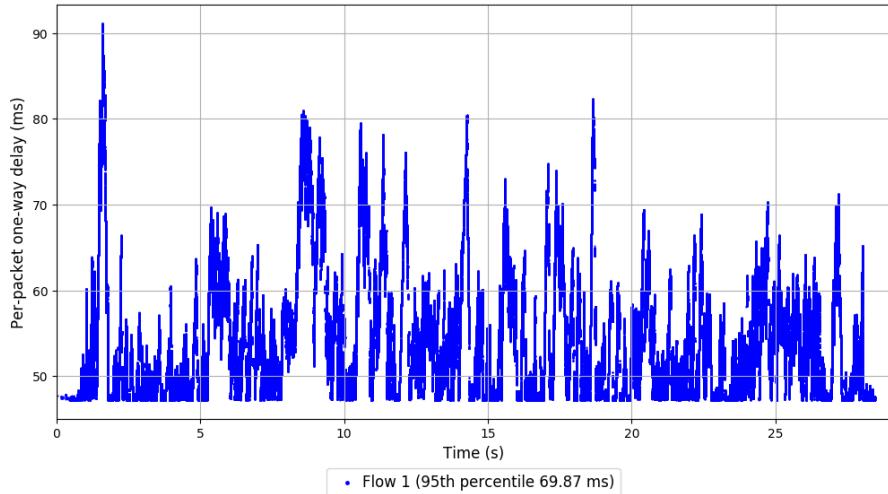
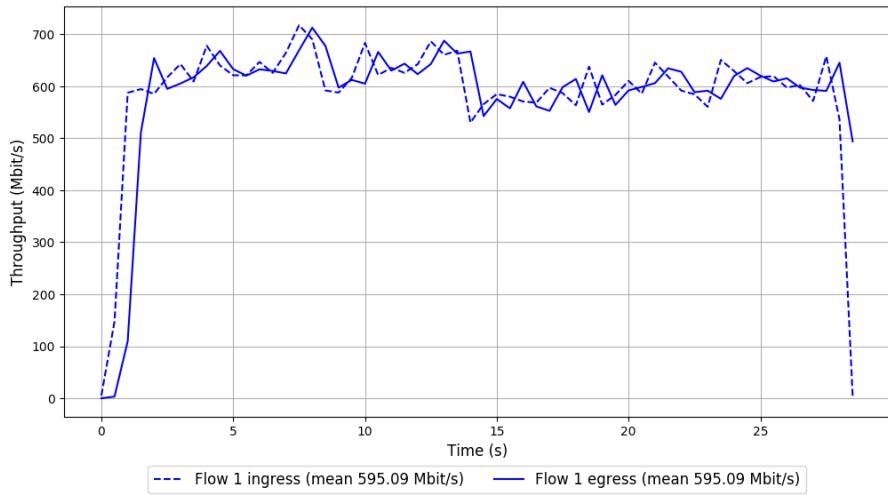


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 18:21:42
End at: 2019-03-27 18:22:12
Local clock offset: -0.116 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-03-27 19:49:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 595.09 Mbit/s
95th percentile per-packet one-way delay: 69.873 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 595.09 Mbit/s
95th percentile per-packet one-way delay: 69.873 ms
Loss rate: 0.34%
```

Run 5: Report of Indigo-MusesC5 — Data Link

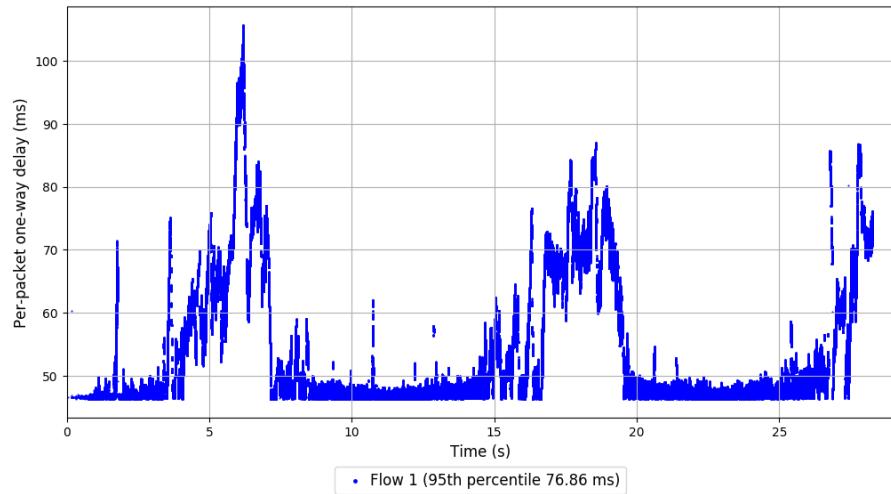
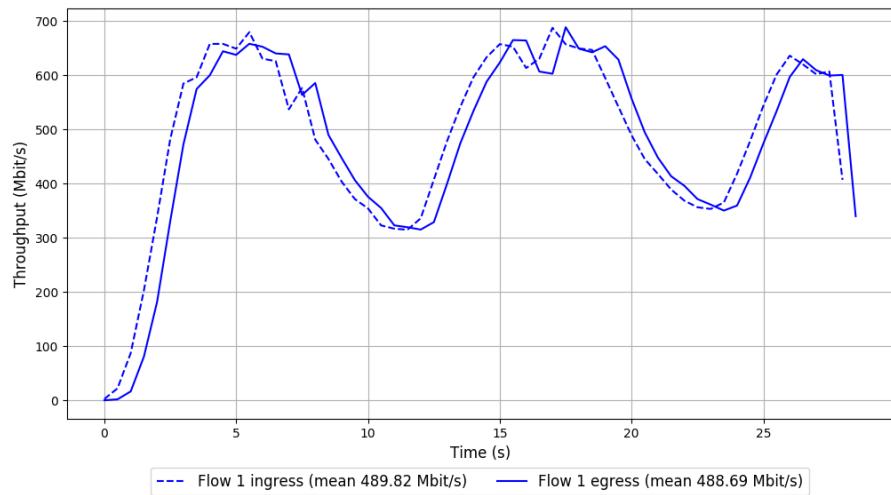


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 16:14:13
End at: 2019-03-27 16:14:43
Local clock offset: -0.057 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-03-27 19:49:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 488.69 Mbit/s
95th percentile per-packet one-way delay: 76.857 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 488.69 Mbit/s
95th percentile per-packet one-way delay: 76.857 ms
Loss rate: 0.57%
```

Run 1: Report of Indigo-MusesD — Data Link

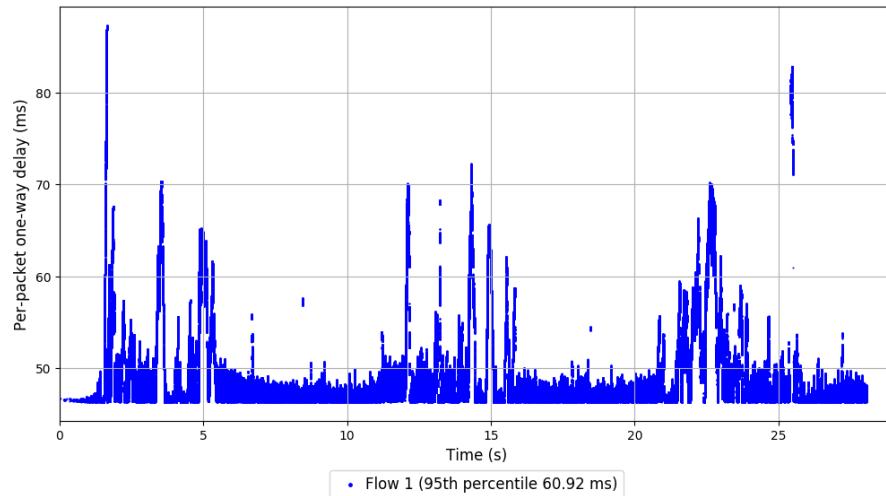
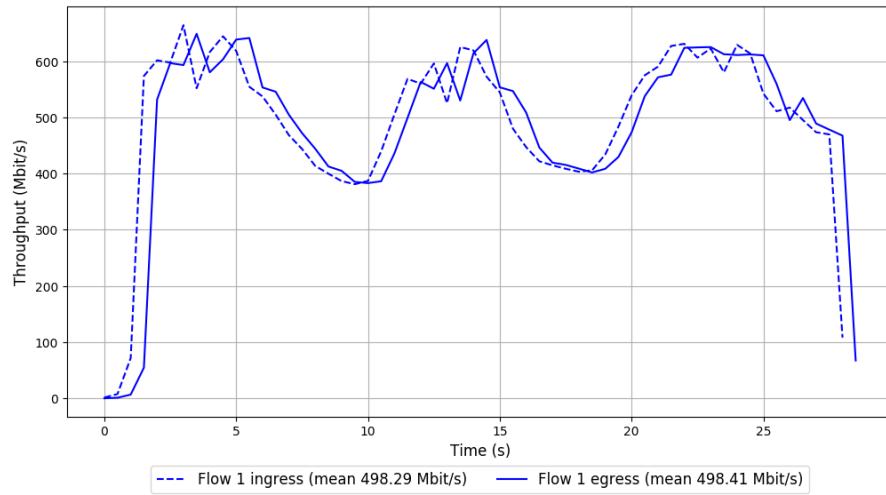


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 16:44:52
End at: 2019-03-27 16:45:22
Local clock offset: -0.042 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-03-27 19:49:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 498.41 Mbit/s
95th percentile per-packet one-way delay: 60.925 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 498.41 Mbit/s
95th percentile per-packet one-way delay: 60.925 ms
Loss rate: 0.32%
```

Run 2: Report of Indigo-MusesD — Data Link

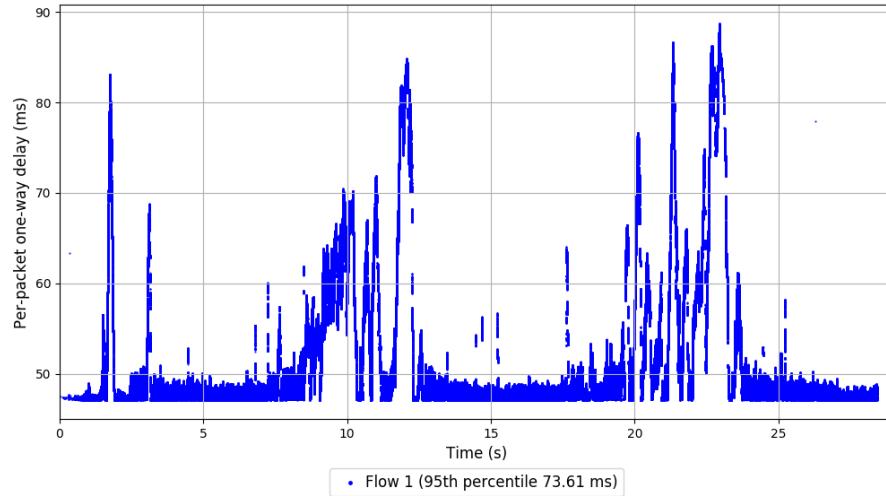
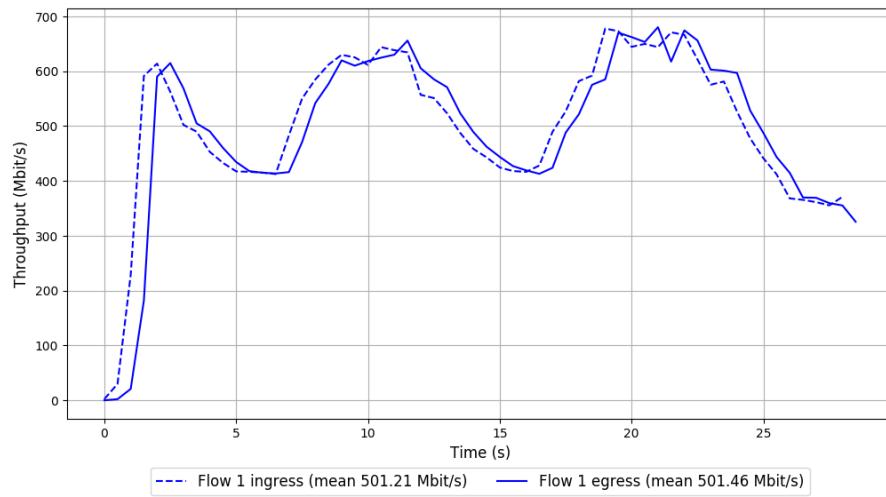


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 17:15:37
End at: 2019-03-27 17:16:07
Local clock offset: -0.091 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-03-27 19:49:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 501.46 Mbit/s
95th percentile per-packet one-way delay: 73.606 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 501.46 Mbit/s
95th percentile per-packet one-way delay: 73.606 ms
Loss rate: 0.28%
```

Run 3: Report of Indigo-MusesD — Data Link

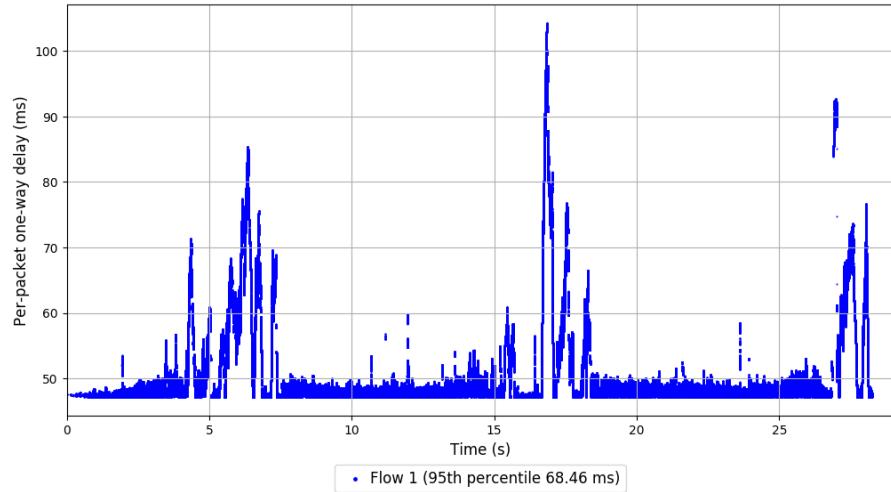
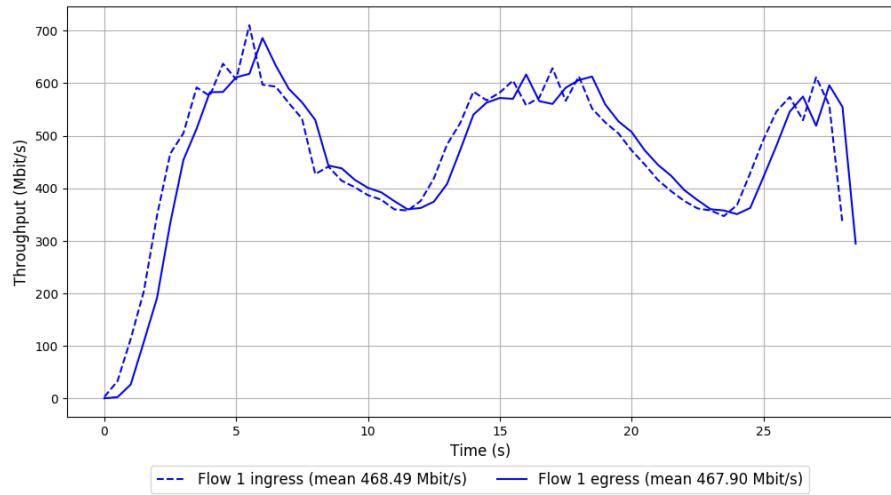


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 17:45:40
End at: 2019-03-27 17:46:10
Local clock offset: -0.07 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-03-27 19:49:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 467.90 Mbit/s
95th percentile per-packet one-way delay: 68.463 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 467.90 Mbit/s
95th percentile per-packet one-way delay: 68.463 ms
Loss rate: 0.46%
```

Run 4: Report of Indigo-MusesD — Data Link

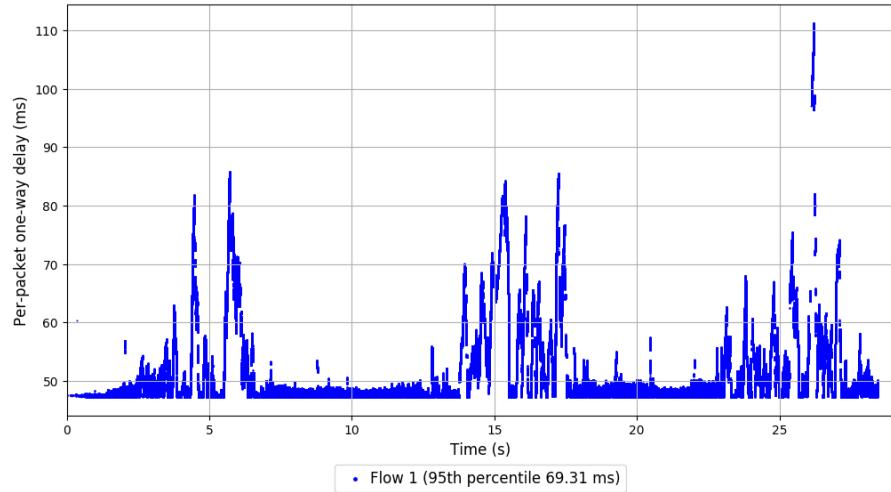
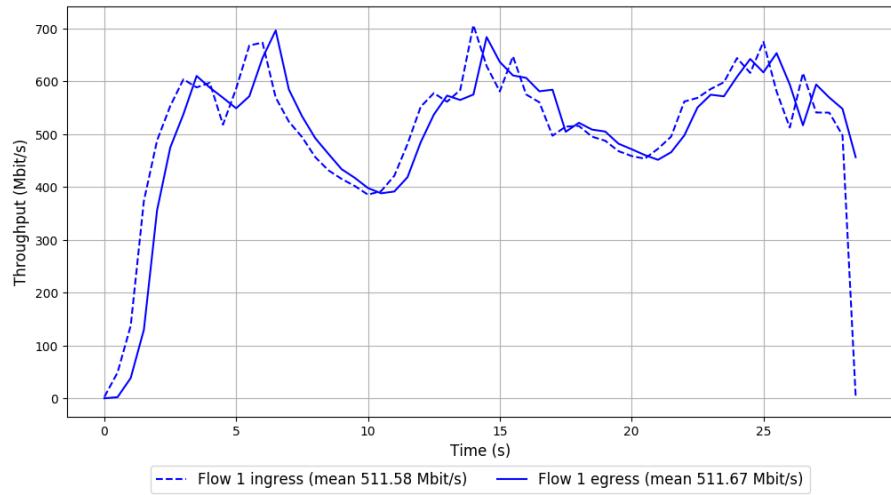


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 18:15:59
End at: 2019-03-27 18:16:29
Local clock offset: -0.098 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-03-27 19:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 511.67 Mbit/s
95th percentile per-packet one-way delay: 69.305 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 511.67 Mbit/s
95th percentile per-packet one-way delay: 69.305 ms
Loss rate: 0.32%
```

Run 5: Report of Indigo-MusesD — Data Link

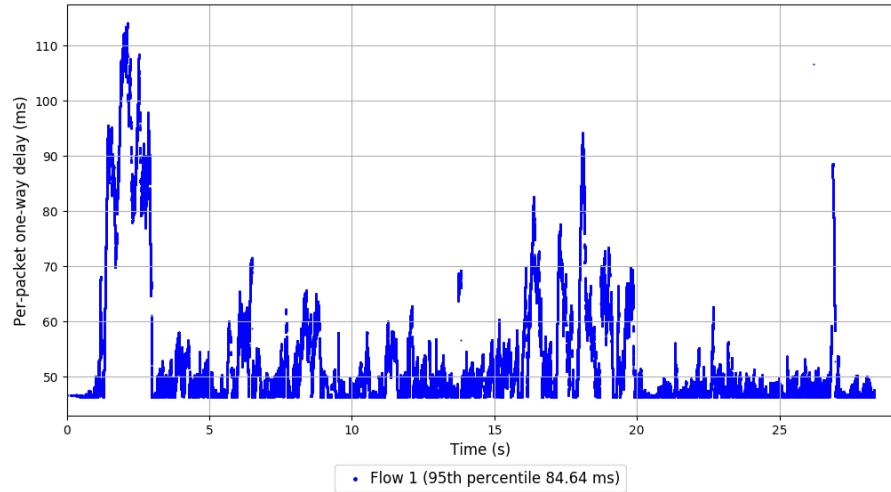
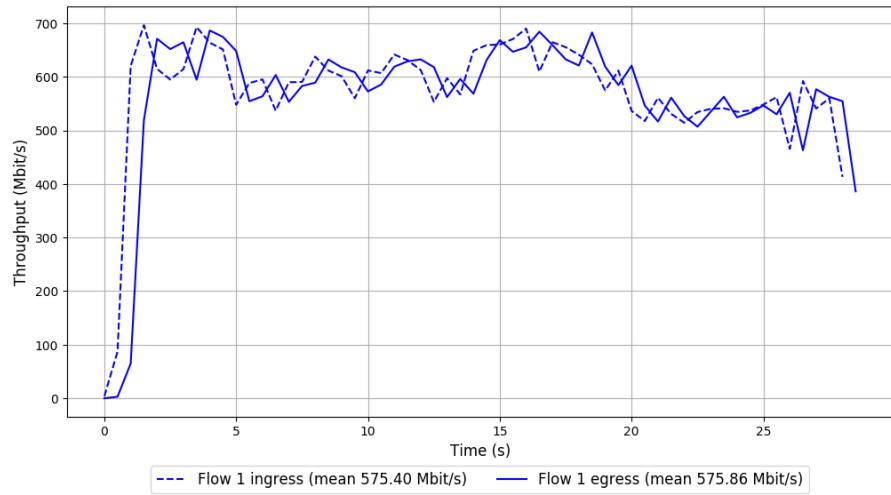


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 16:17:03
End at: 2019-03-27 16:17:33
Local clock offset: -0.007 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-03-27 19:55:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 575.86 Mbit/s
95th percentile per-packet one-way delay: 84.643 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 575.86 Mbit/s
95th percentile per-packet one-way delay: 84.643 ms
Loss rate: 0.26%
```

Run 1: Report of Indigo-MusesT — Data Link

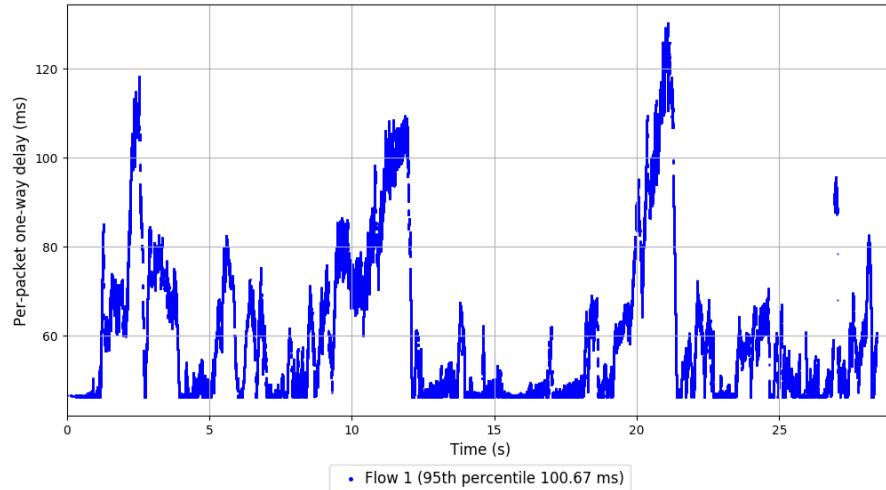
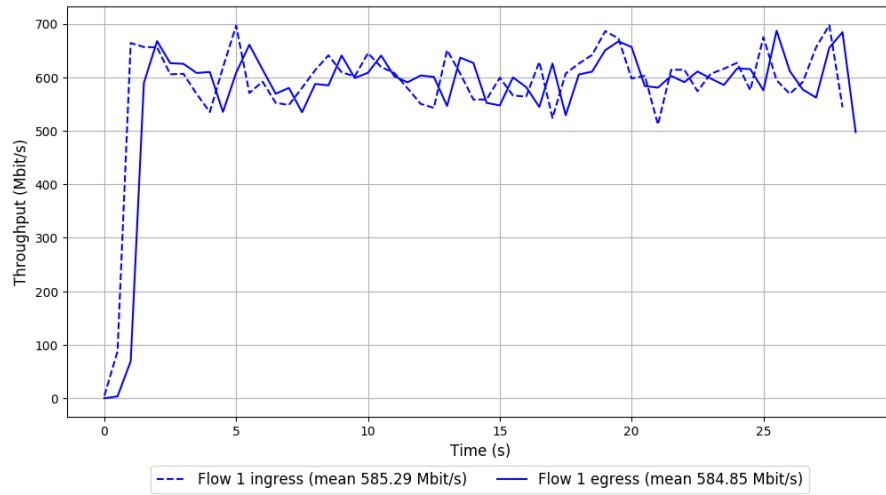


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 16:47:31
End at: 2019-03-27 16:48:01
Local clock offset: -0.07 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-03-27 19:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 584.85 Mbit/s
95th percentile per-packet one-way delay: 100.665 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 584.85 Mbit/s
95th percentile per-packet one-way delay: 100.665 ms
Loss rate: 0.41%
```

Run 2: Report of Indigo-MusesT — Data Link

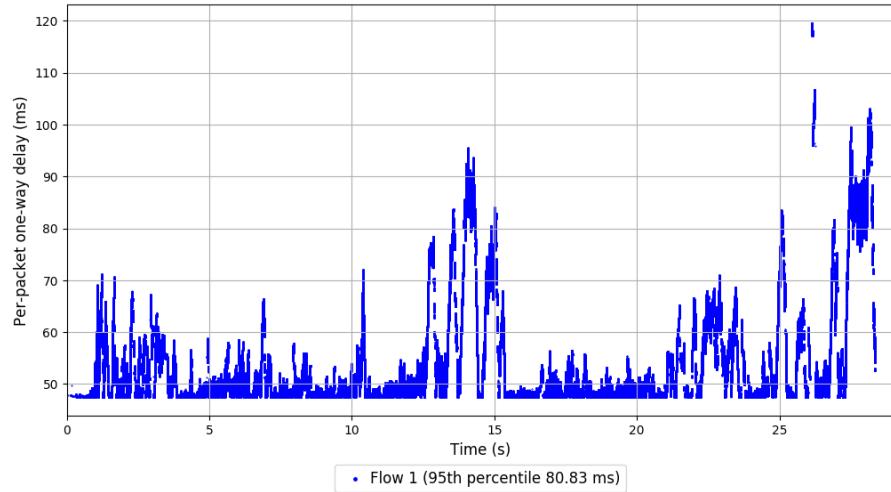
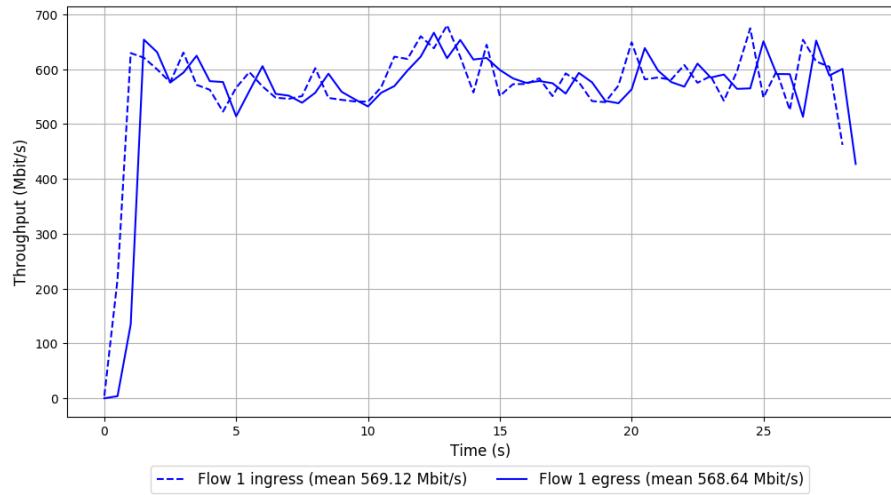


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 17:18:15
End at: 2019-03-27 17:18:45
Local clock offset: -0.11 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-03-27 19:58:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 568.64 Mbit/s
95th percentile per-packet one-way delay: 80.830 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 568.64 Mbit/s
95th percentile per-packet one-way delay: 80.830 ms
Loss rate: 0.42%
```

Run 3: Report of Indigo-MusesT — Data Link

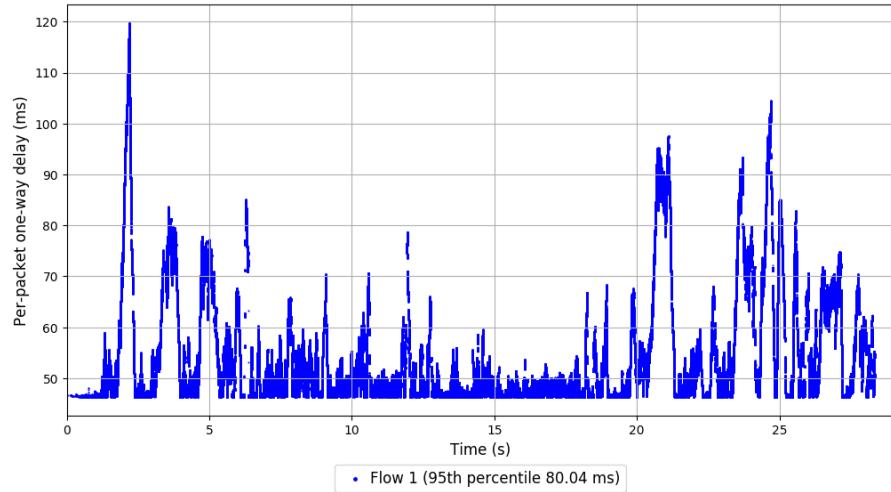
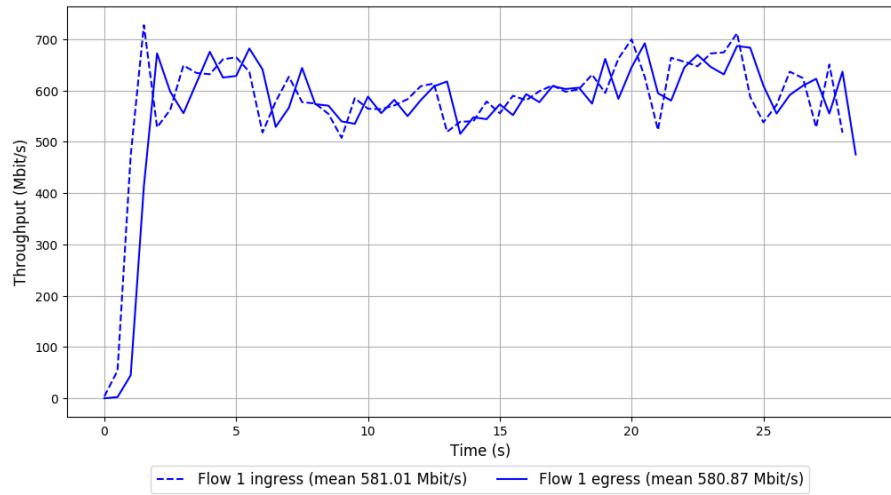


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 17:48:18
End at: 2019-03-27 17:48:48
Local clock offset: -0.077 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-03-27 19:58:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 580.87 Mbit/s
95th percentile per-packet one-way delay: 80.041 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 580.87 Mbit/s
95th percentile per-packet one-way delay: 80.041 ms
Loss rate: 0.36%
```

Run 4: Report of Indigo-MusesT — Data Link

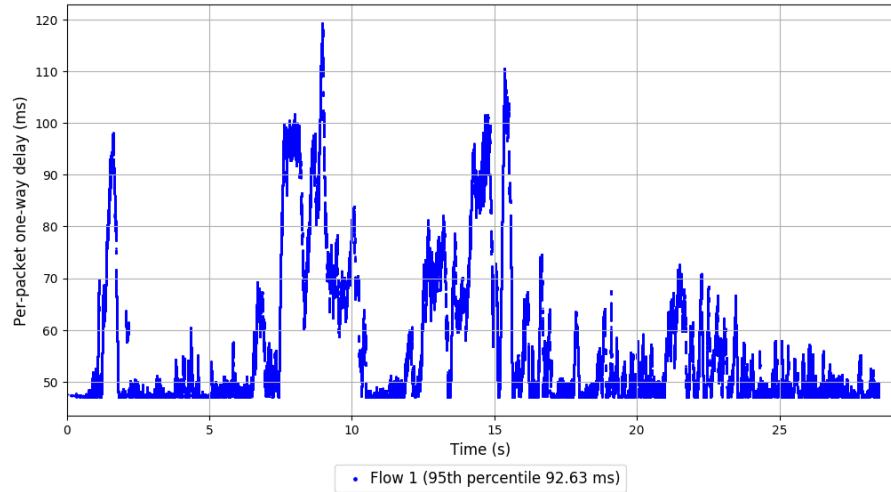
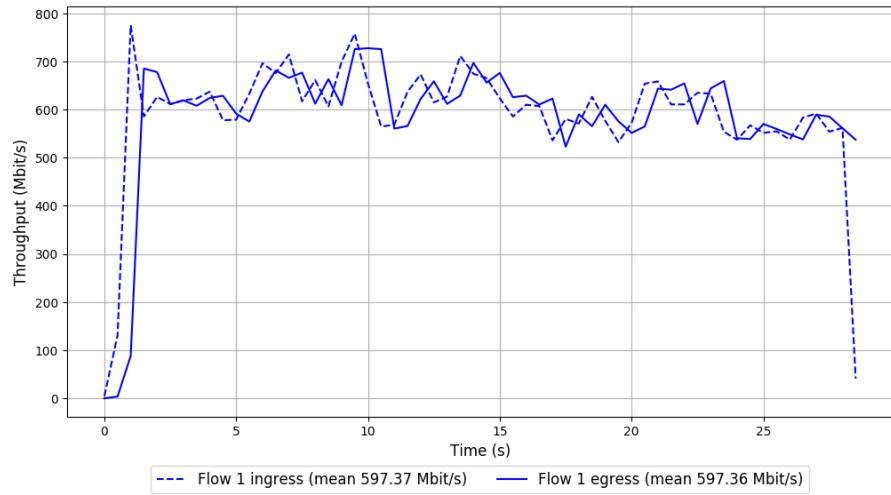


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 18:18:37
End at: 2019-03-27 18:19:07
Local clock offset: -0.131 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-03-27 19:59:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 597.36 Mbit/s
95th percentile per-packet one-way delay: 92.628 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 597.36 Mbit/s
95th percentile per-packet one-way delay: 92.628 ms
Loss rate: 0.34%
```

Run 5: Report of Indigo-MusesT — Data Link

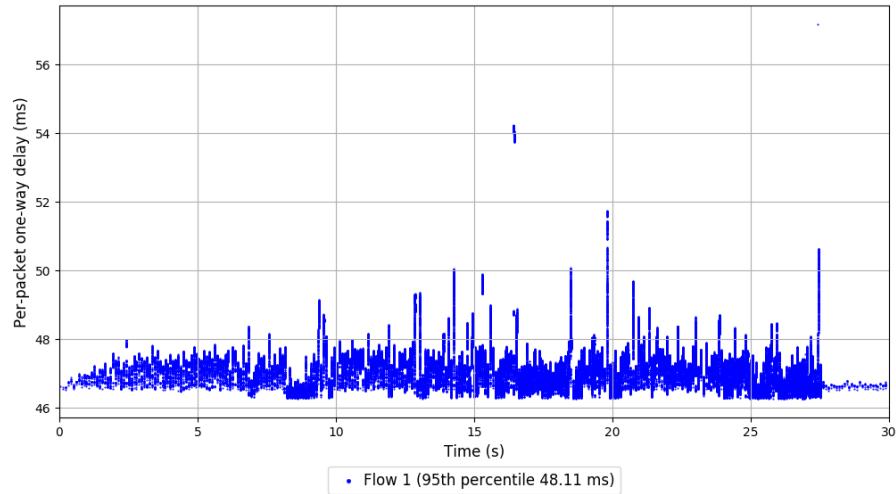
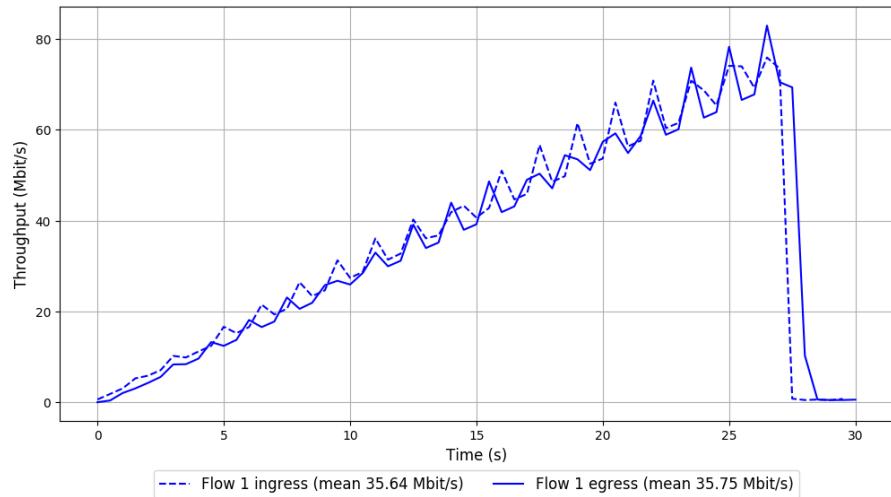


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-03-27 16:08:35
End at: 2019-03-27 16:09:05
Local clock offset: -0.062 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-03-27 19:59:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.75 Mbit/s
95th percentile per-packet one-way delay: 48.107 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 35.75 Mbit/s
95th percentile per-packet one-way delay: 48.107 ms
Loss rate: 0.01%
```

Run 1: Report of LEDBAT — Data Link

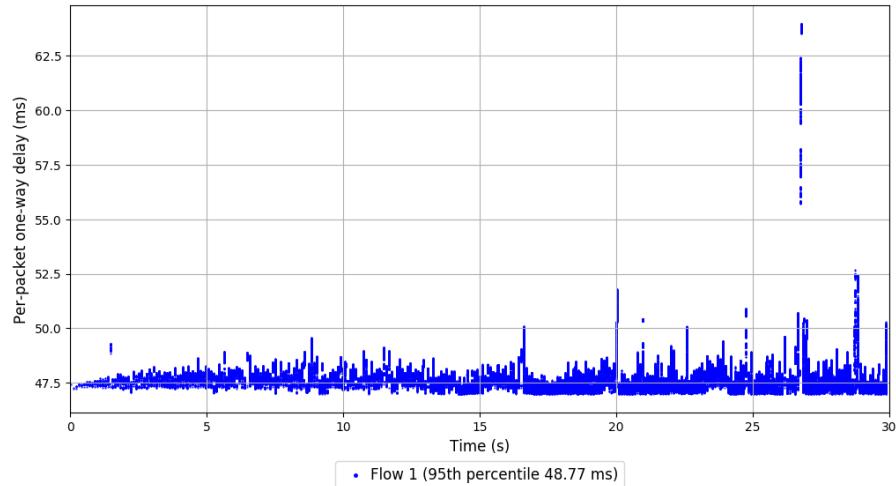
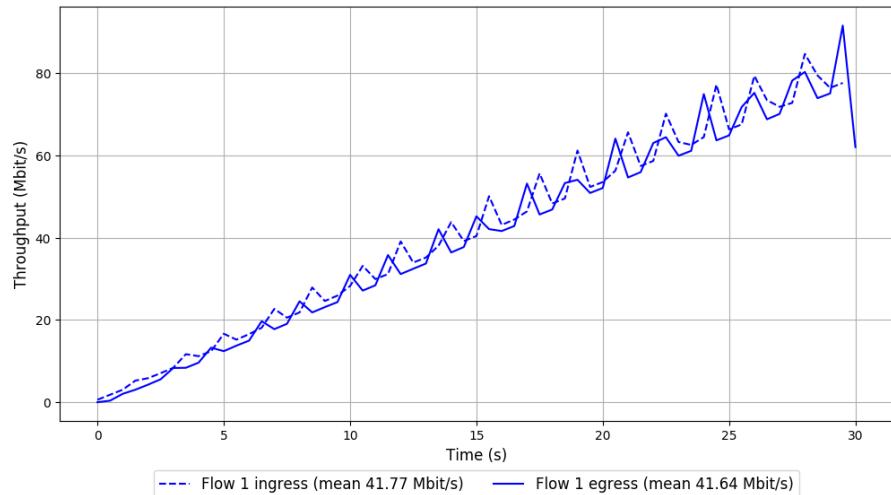


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-27 16:39:17
End at: 2019-03-27 16:39:47
Local clock offset: -0.05 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-03-27 19:59:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.64 Mbit/s
95th percentile per-packet one-way delay: 48.771 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 41.64 Mbit/s
95th percentile per-packet one-way delay: 48.771 ms
Loss rate: 0.62%
```

Run 2: Report of LEDBAT — Data Link

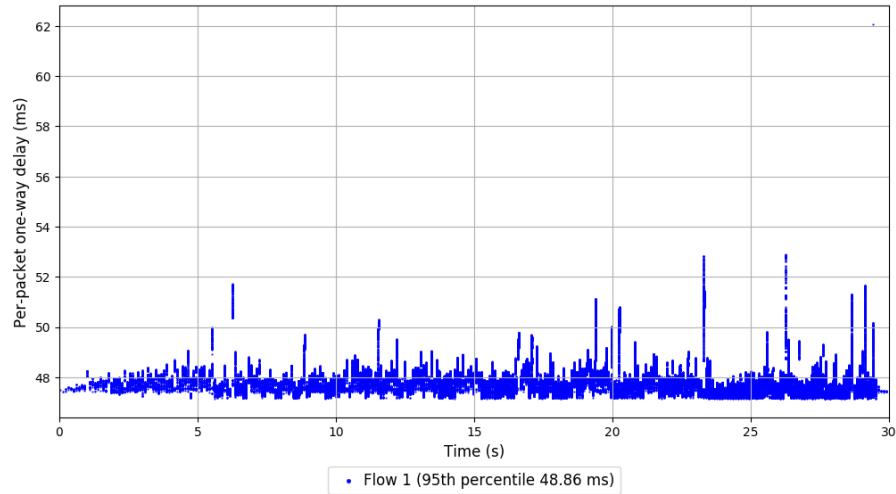
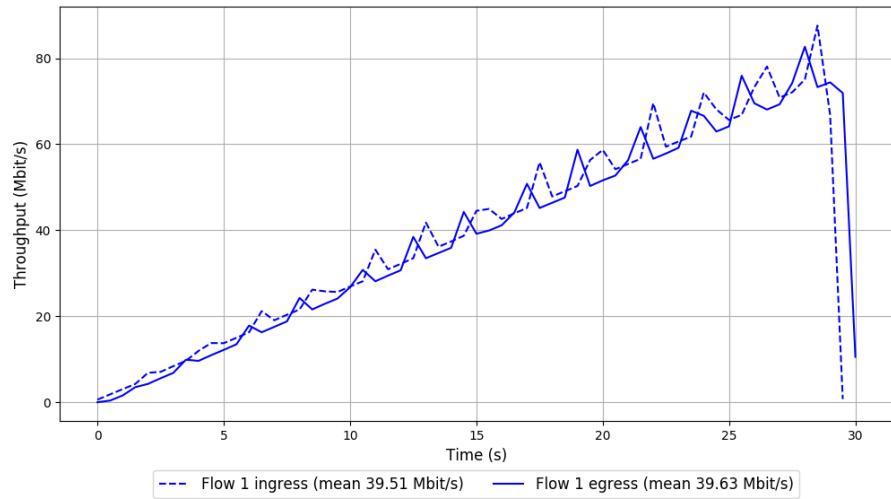


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-27 17:10:02
End at: 2019-03-27 17:10:32
Local clock offset: -0.079 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-03-27 19:59:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.63 Mbit/s
95th percentile per-packet one-way delay: 48.856 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 39.63 Mbit/s
95th percentile per-packet one-way delay: 48.856 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

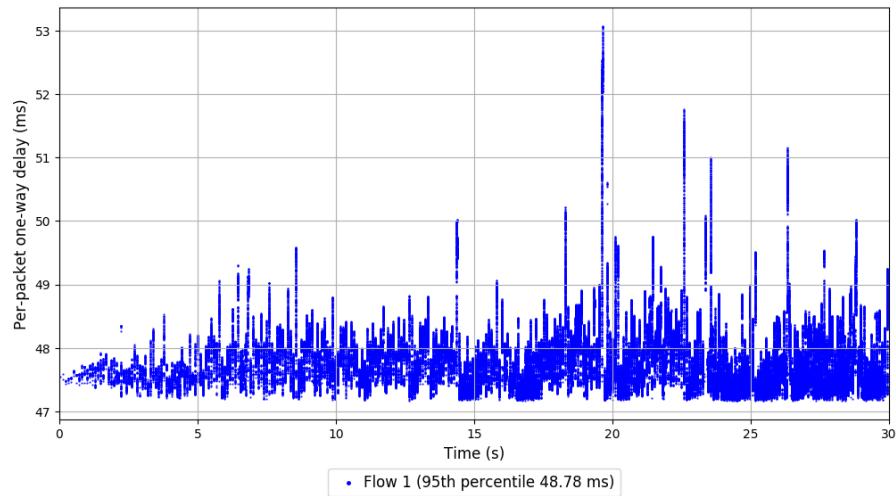
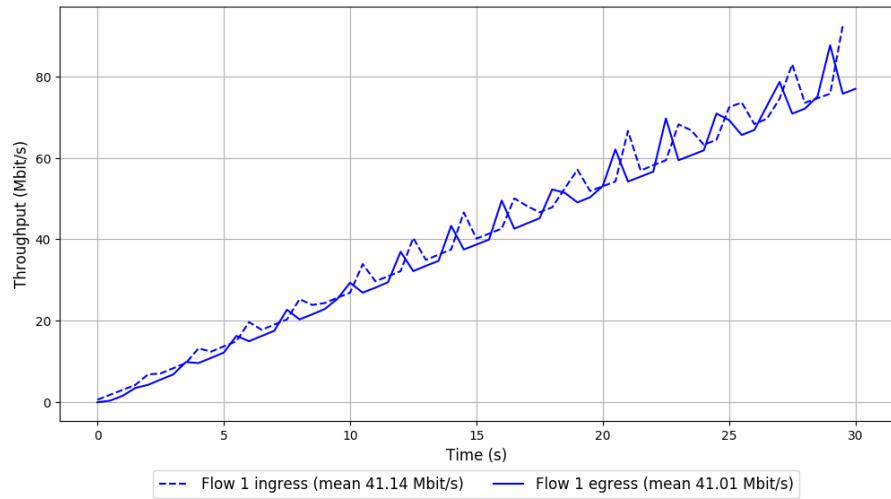


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-27 17:40:04
End at: 2019-03-27 17:40:34
Local clock offset: -0.107 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-03-27 19:59:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 48.777 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 48.777 ms
Loss rate: 0.63%
```

Run 4: Report of LEDBAT — Data Link

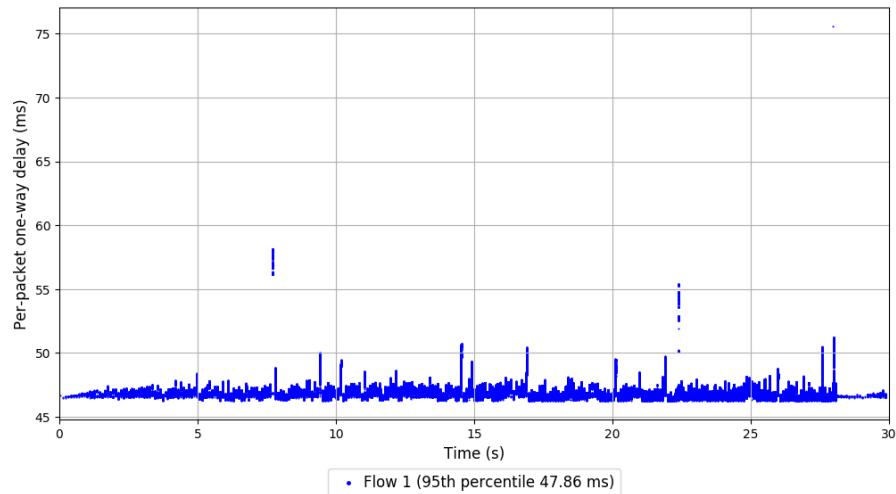
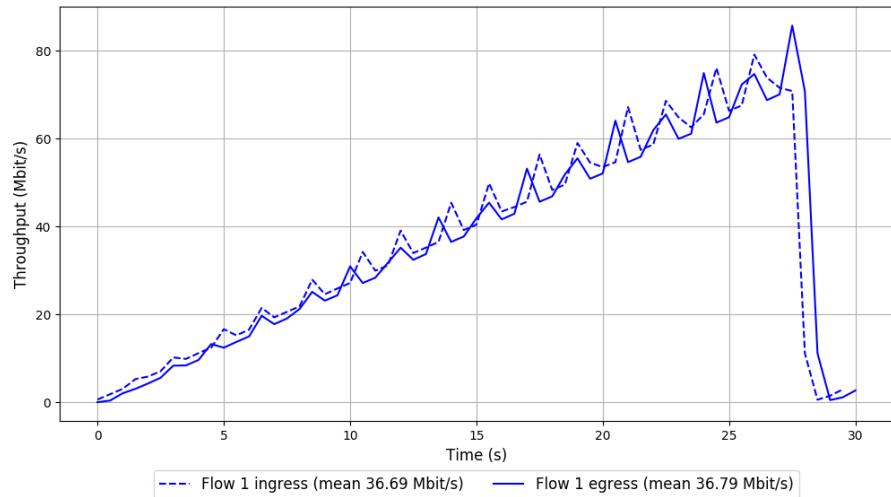


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-27 18:10:25
End at: 2019-03-27 18:10:55
Local clock offset: -0.148 ms
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2019-03-27 19:59:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.79 Mbit/s
95th percentile per-packet one-way delay: 47.859 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 36.79 Mbit/s
95th percentile per-packet one-way delay: 47.859 ms
Loss rate: 0.03%
```

Run 5: Report of LEDBAT — Data Link

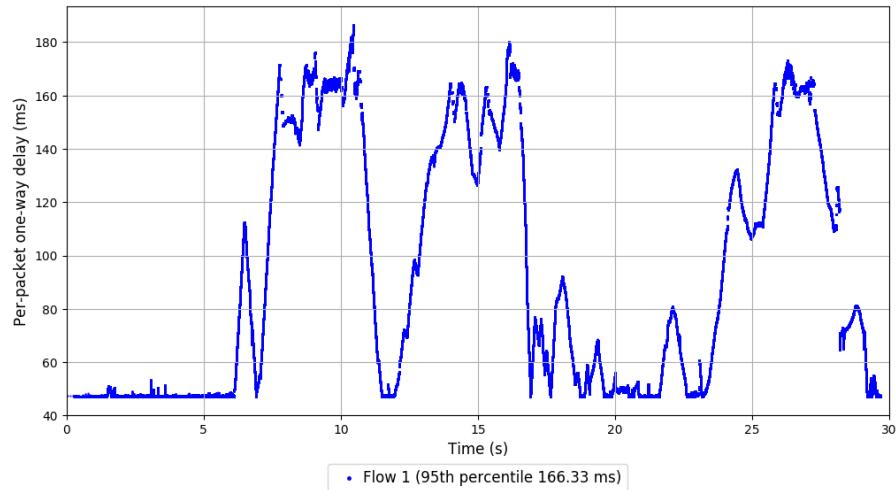
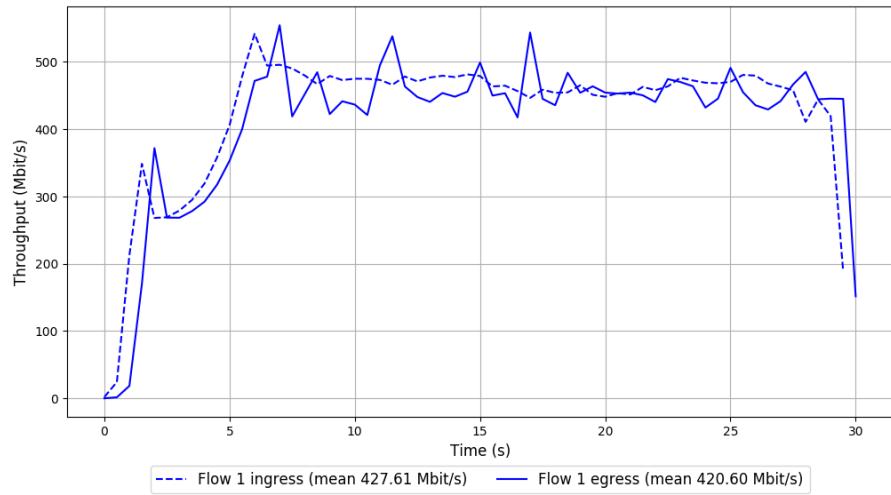


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-03-27 16:21:54
End at: 2019-03-27 16:22:24
Local clock offset: -0.087 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-03-27 20:07:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 420.60 Mbit/s
95th percentile per-packet one-way delay: 166.326 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 420.60 Mbit/s
95th percentile per-packet one-way delay: 166.326 ms
Loss rate: 1.95%
```

Run 1: Report of PCC-Allegro — Data Link

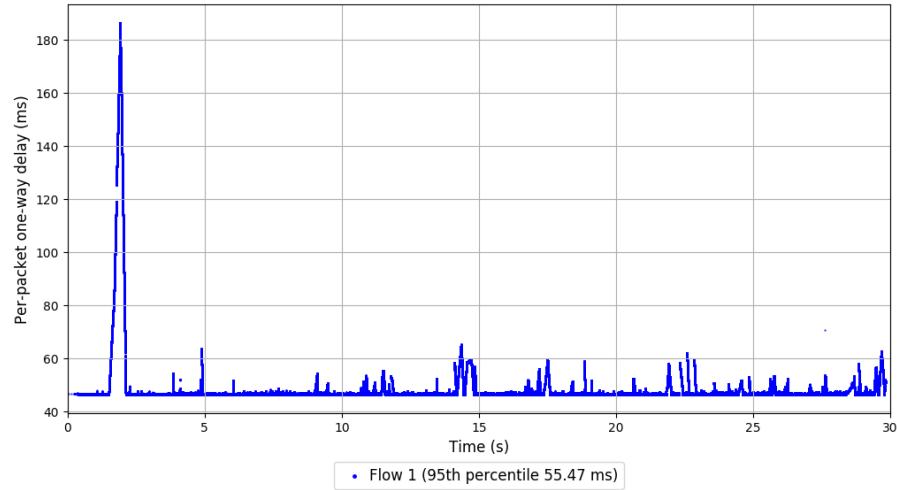
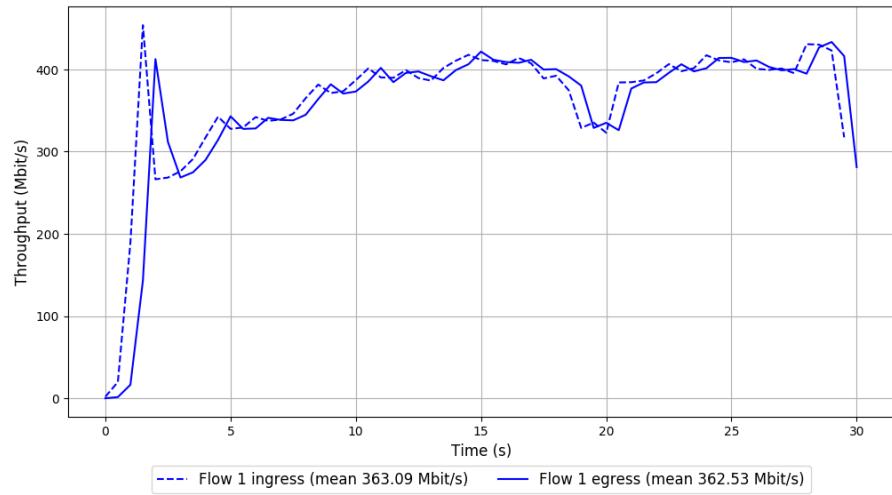


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-27 16:52:29
End at: 2019-03-27 16:52:59
Local clock offset: -0.064 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-03-27 20:07:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 362.53 Mbit/s
95th percentile per-packet one-way delay: 55.471 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 362.53 Mbit/s
95th percentile per-packet one-way delay: 55.471 ms
Loss rate: 0.47%
```

Run 2: Report of PCC-Allegro — Data Link

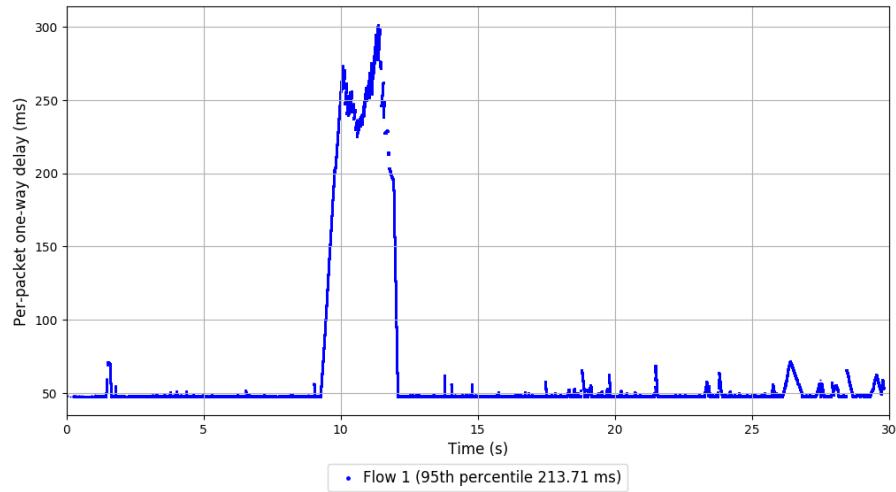
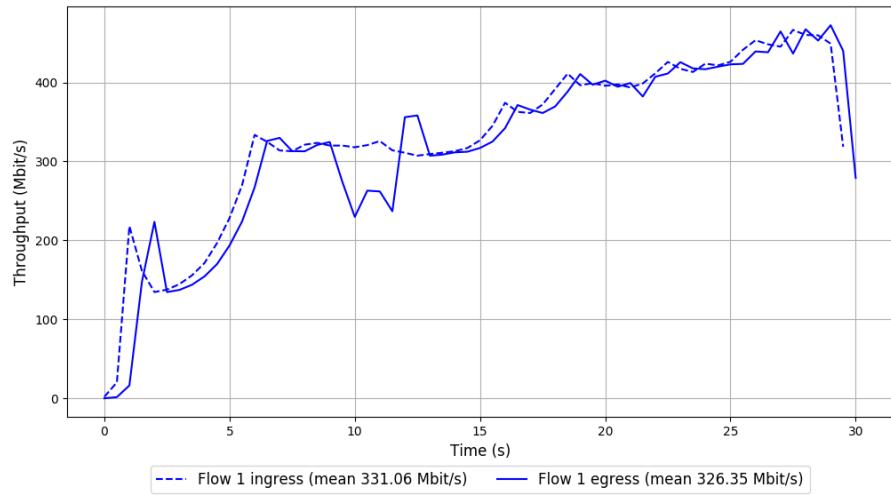


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-27 17:22:54
End at: 2019-03-27 17:23:24
Local clock offset: -0.098 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-03-27 20:07:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.35 Mbit/s
95th percentile per-packet one-way delay: 213.712 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 326.35 Mbit/s
95th percentile per-packet one-way delay: 213.712 ms
Loss rate: 1.74%
```

Run 3: Report of PCC-Allegro — Data Link

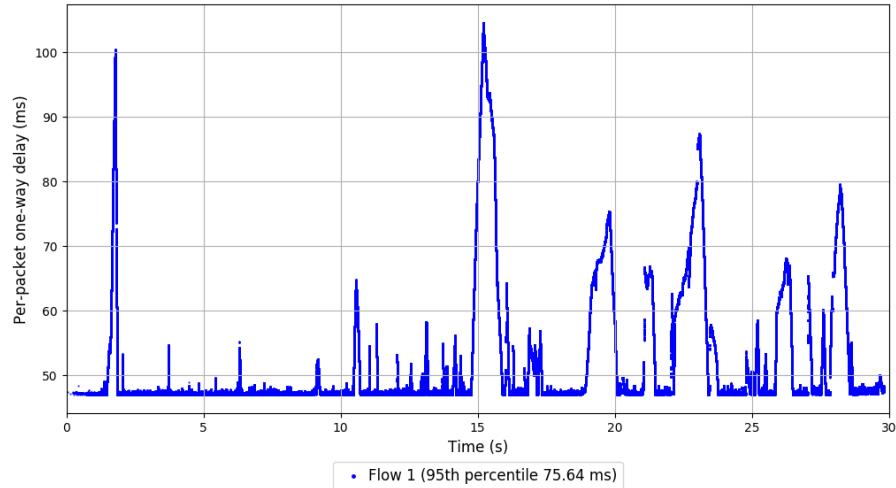
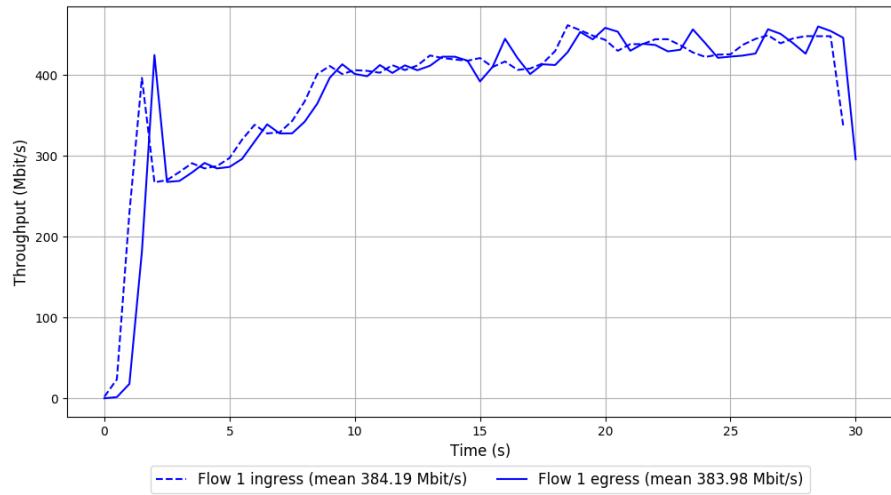


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-27 17:53:11
End at: 2019-03-27 17:53:41
Local clock offset: -0.122 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-03-27 20:10:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 383.98 Mbit/s
95th percentile per-packet one-way delay: 75.639 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 383.98 Mbit/s
95th percentile per-packet one-way delay: 75.639 ms
Loss rate: 0.37%
```

Run 4: Report of PCC-Allegro — Data Link

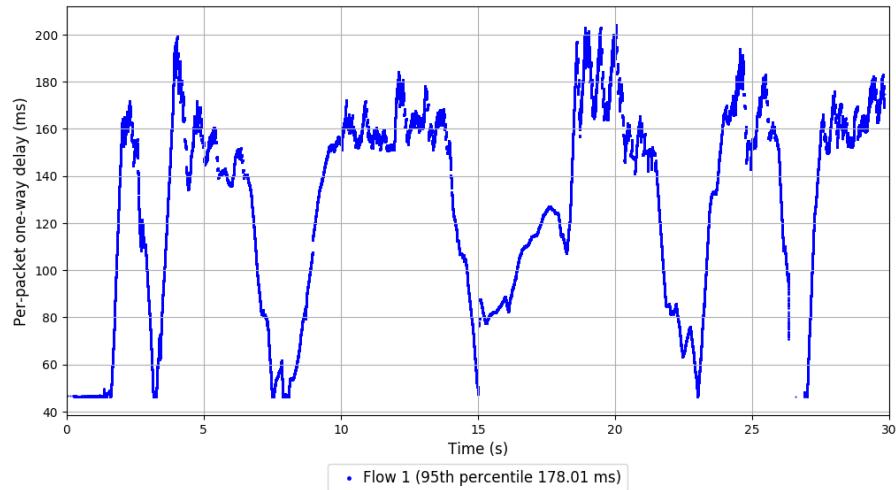
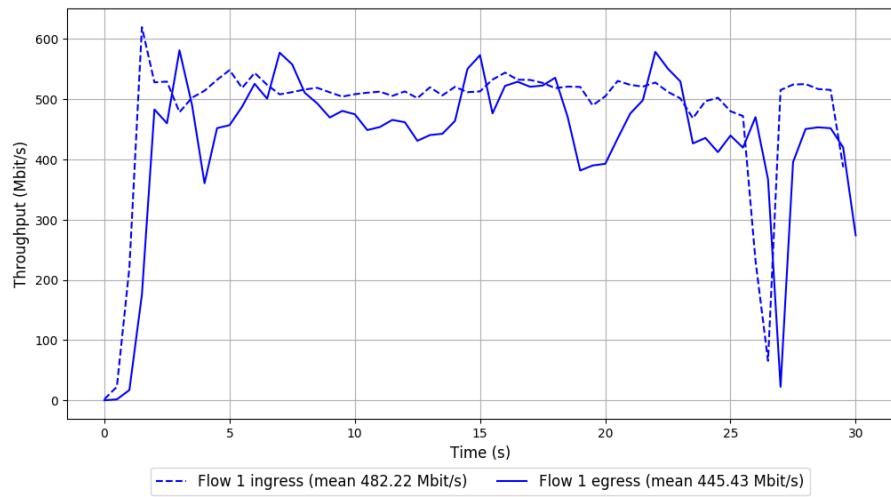


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-27 18:23:18
End at: 2019-03-27 18:23:48
Local clock offset: -0.162 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-03-27 20:13:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 445.43 Mbit/s
95th percentile per-packet one-way delay: 178.008 ms
Loss rate: 7.92%
-- Flow 1:
Average throughput: 445.43 Mbit/s
95th percentile per-packet one-way delay: 178.008 ms
Loss rate: 7.92%
```

Run 5: Report of PCC-Allegro — Data Link

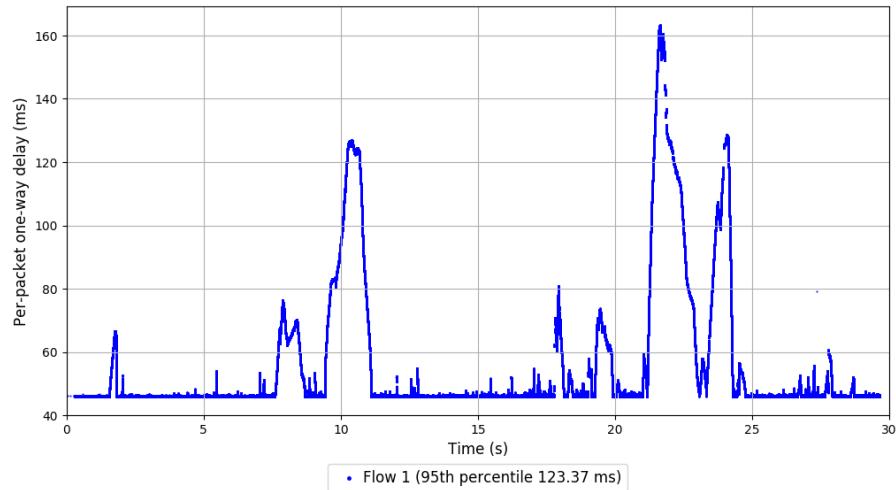
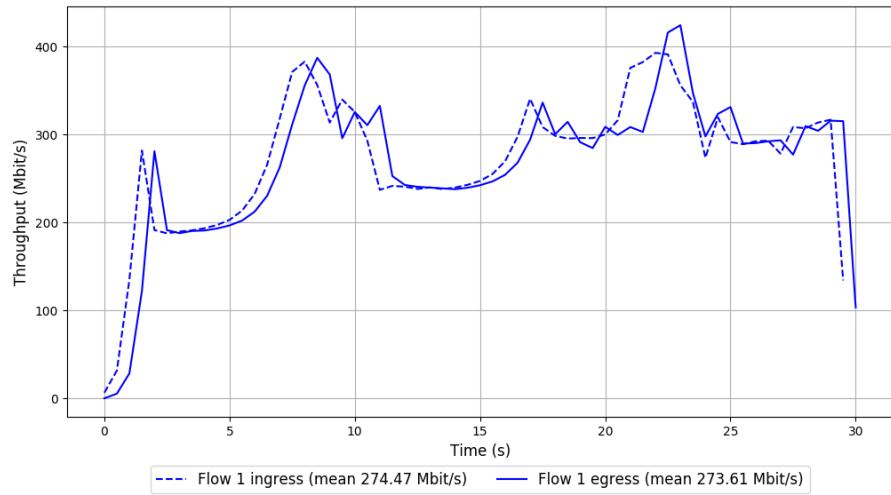


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-03-27 16:03:25
End at: 2019-03-27 16:03:55
Local clock offset: -0.408 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-03-27 20:13:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 273.61 Mbit/s
95th percentile per-packet one-way delay: 123.374 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 273.61 Mbit/s
95th percentile per-packet one-way delay: 123.374 ms
Loss rate: 0.63%
```

Run 1: Report of PCC-Expr — Data Link

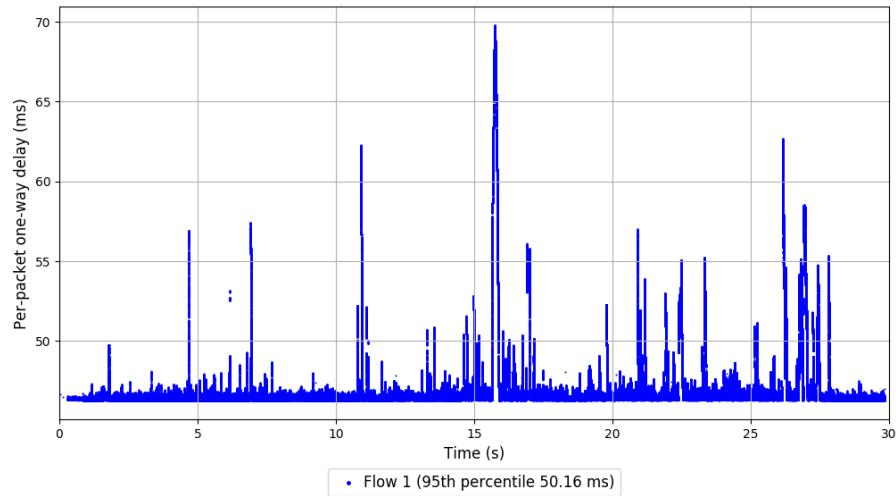
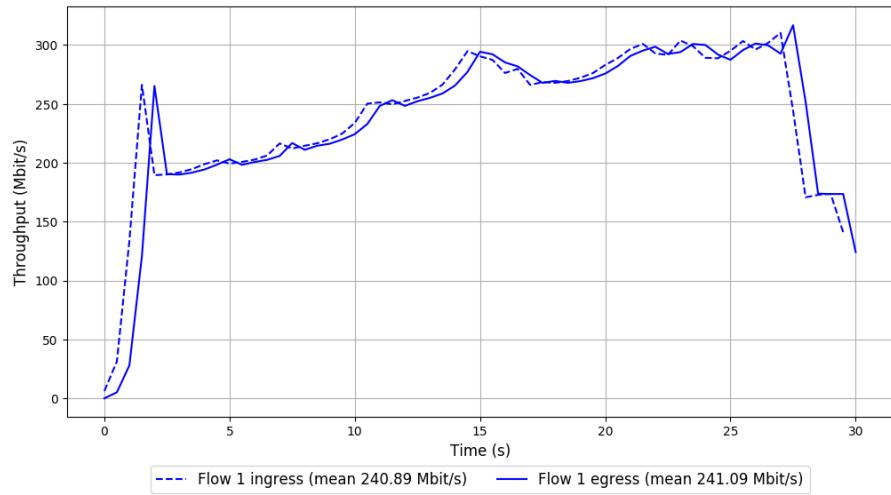


Run 2: Statistics of PCC-Expr

```
Start at: 2019-03-27 16:33:47
End at: 2019-03-27 16:34:17
Local clock offset: -0.045 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-03-27 20:13:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 241.09 Mbit/s
95th percentile per-packet one-way delay: 50.155 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 241.09 Mbit/s
95th percentile per-packet one-way delay: 50.155 ms
Loss rate: 0.23%
```

Run 2: Report of PCC-Expr — Data Link

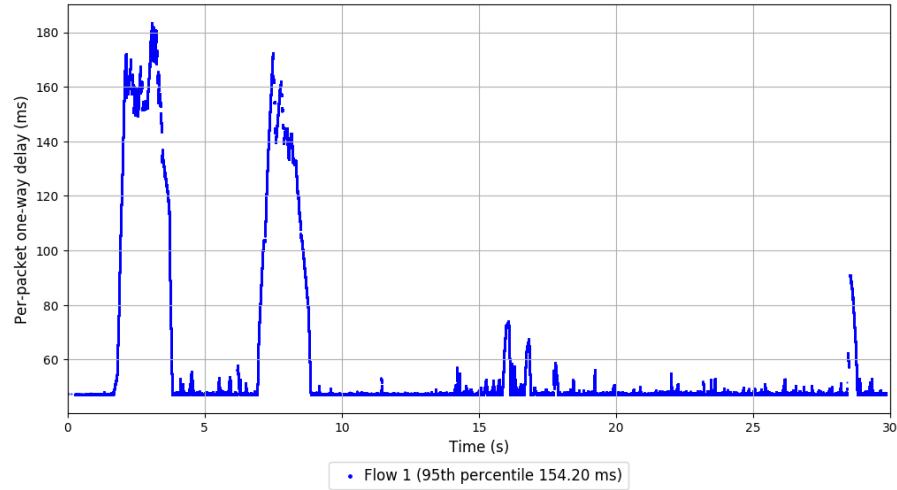
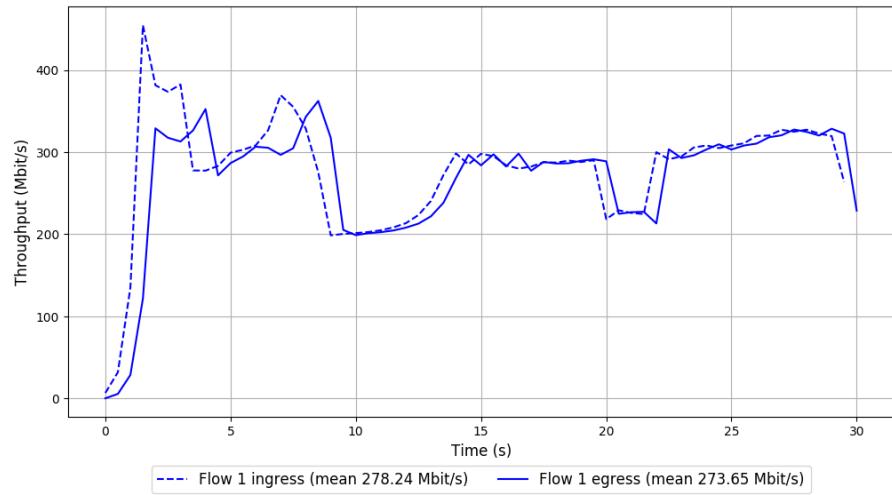


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-27 17:04:29
End at: 2019-03-27 17:04:59
Local clock offset: -0.095 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-03-27 20:13:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 273.65 Mbit/s
95th percentile per-packet one-way delay: 154.199 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 273.65 Mbit/s
95th percentile per-packet one-way delay: 154.199 ms
Loss rate: 1.96%
```

Run 3: Report of PCC-Expr — Data Link

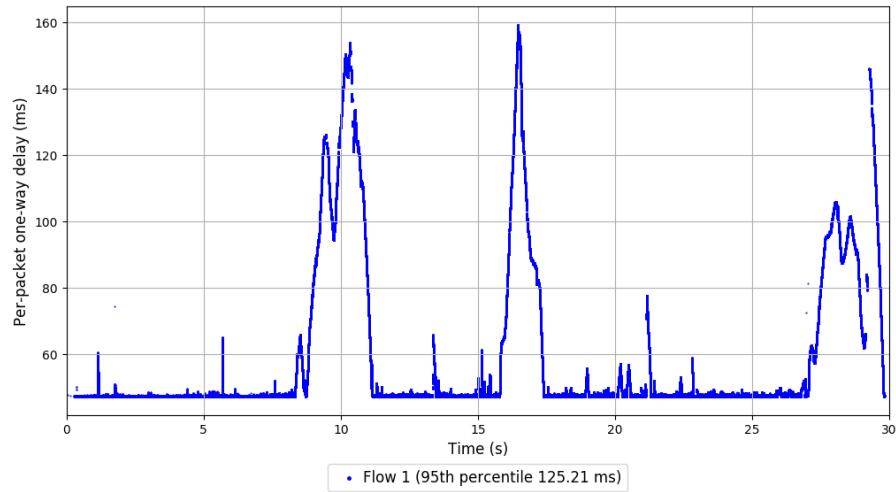
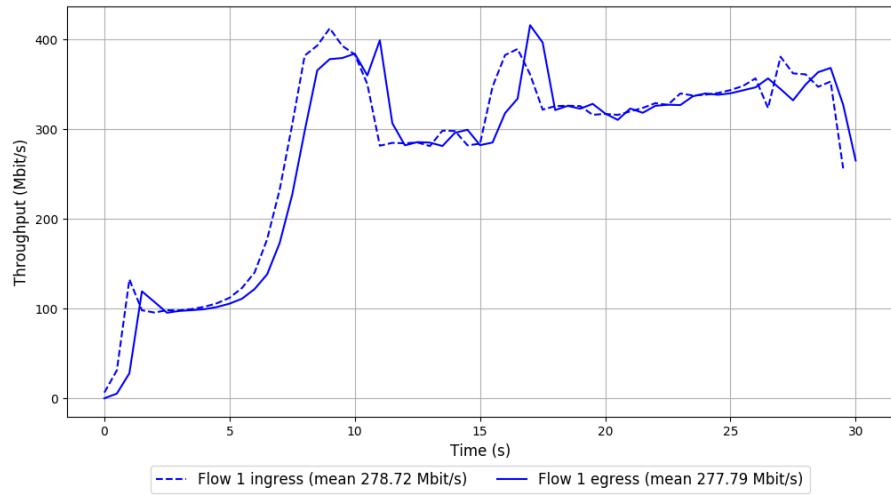


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-27 17:34:32
End at: 2019-03-27 17:35:02
Local clock offset: -0.129 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-03-27 20:14:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 277.79 Mbit/s
95th percentile per-packet one-way delay: 125.206 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 277.79 Mbit/s
95th percentile per-packet one-way delay: 125.206 ms
Loss rate: 0.65%
```

Run 4: Report of PCC-Expr — Data Link

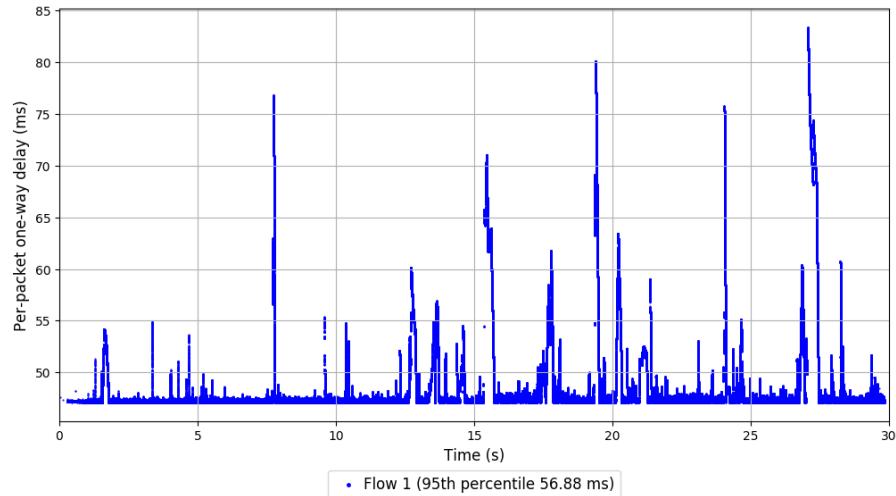
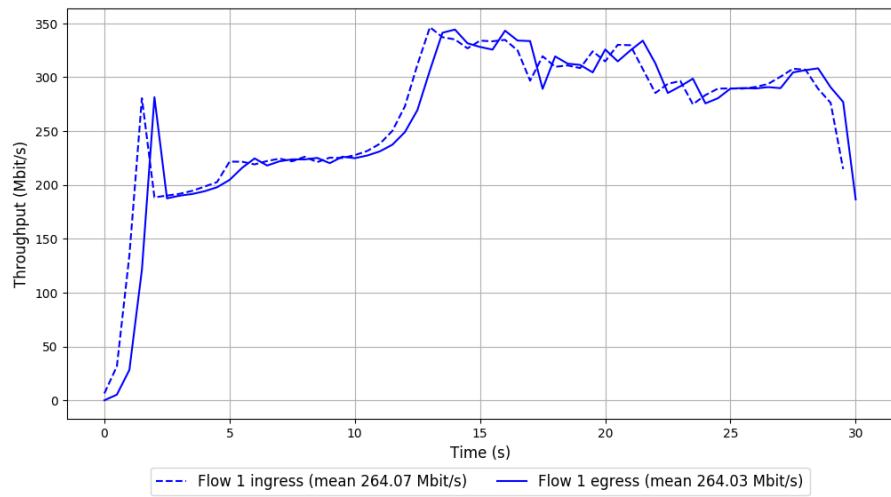


Run 5: Statistics of PCC-Expr

```
Start at: 2019-03-27 18:04:53
End at: 2019-03-27 18:05:23
Local clock offset: -0.091 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-03-27 20:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 264.03 Mbit/s
95th percentile per-packet one-way delay: 56.885 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 264.03 Mbit/s
95th percentile per-packet one-way delay: 56.885 ms
Loss rate: 0.34%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

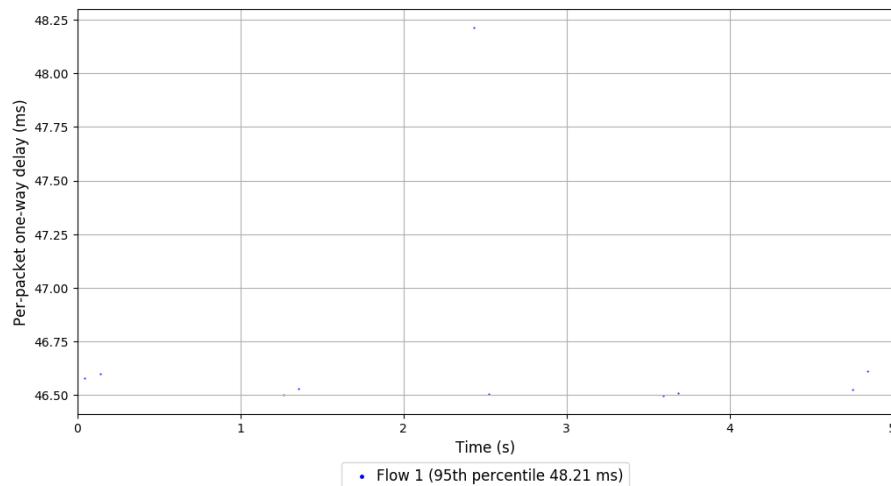
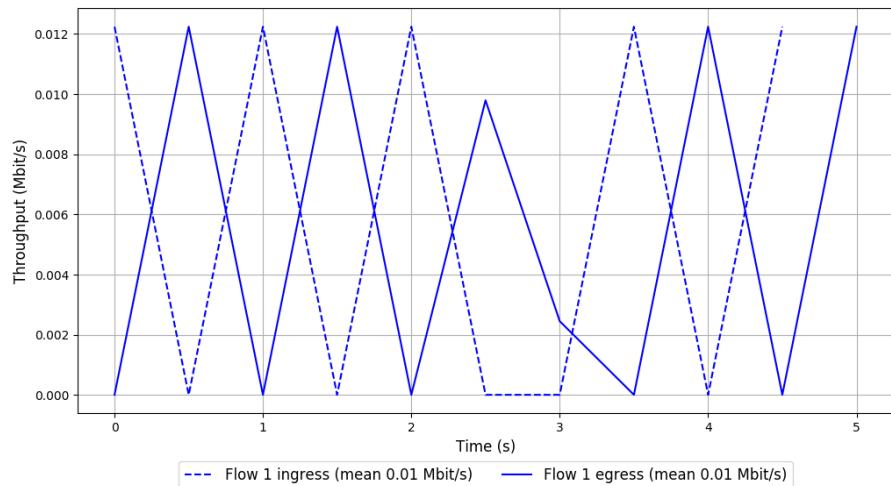
Start at: 2019-03-27 16:06:05

End at: 2019-03-27 16:06:35

Local clock offset: -0.058 ms

Remote clock offset: -0.093 ms

Run 1: Report of QUIC Cubic — Data Link

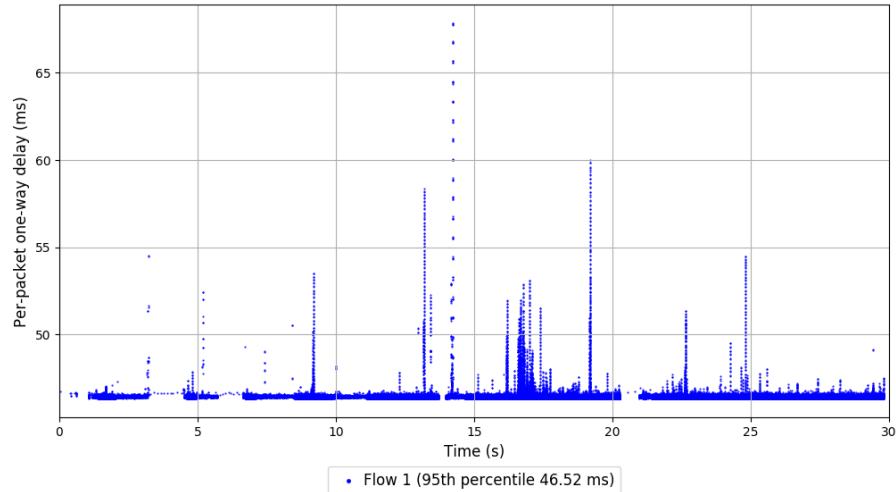
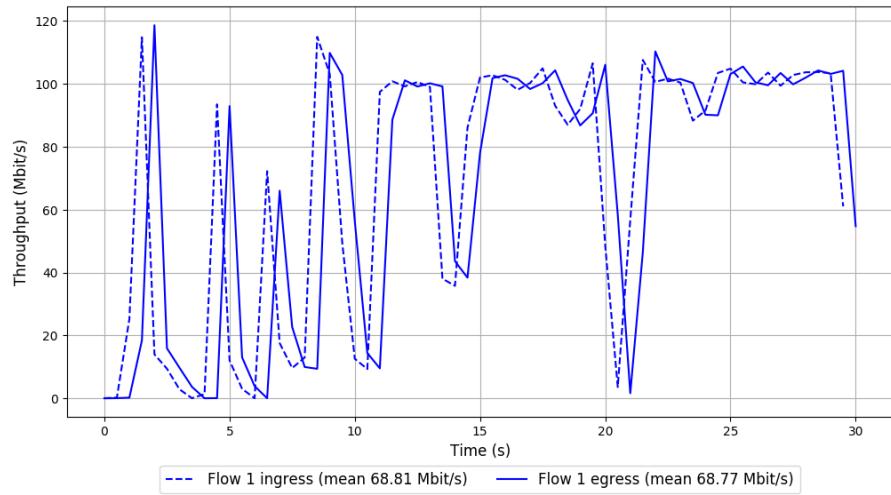


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-27 16:36:44
End at: 2019-03-27 16:37:14
Local clock offset: -0.027 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-03-27 20:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.77 Mbit/s
95th percentile per-packet one-way delay: 46.519 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 68.77 Mbit/s
95th percentile per-packet one-way delay: 46.519 ms
Loss rate: 0.38%
```

Run 2: Report of QUIC Cubic — Data Link

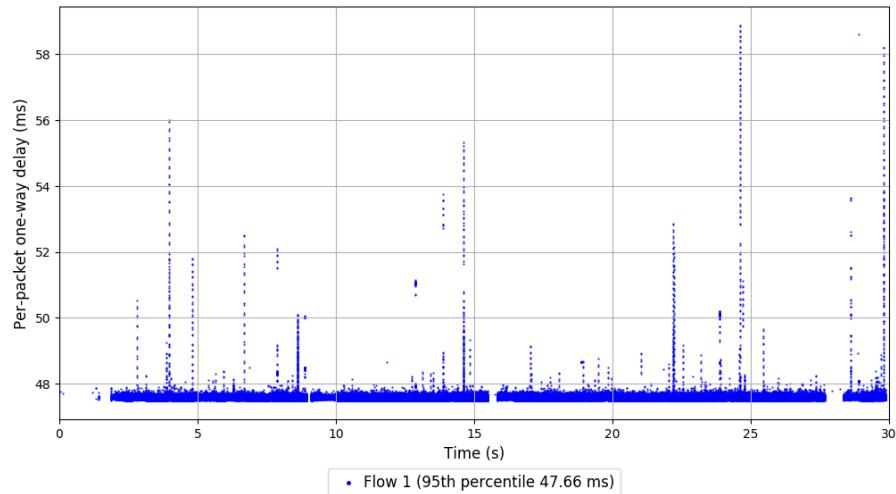
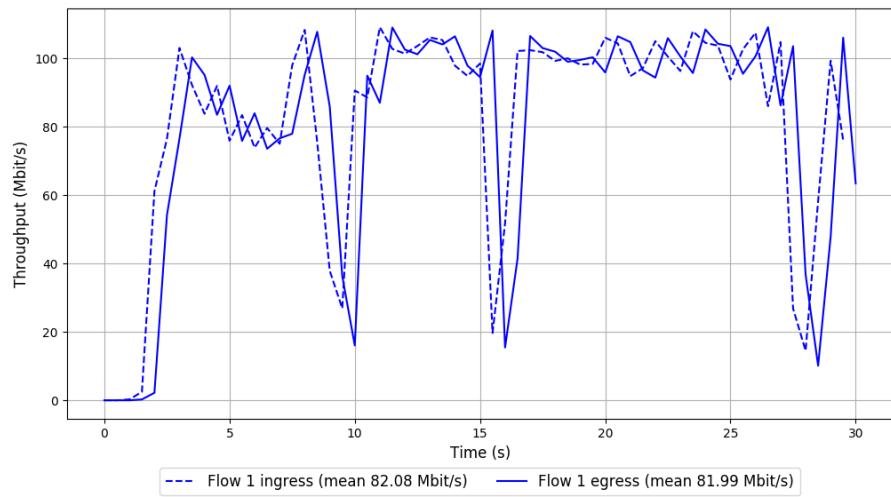


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-27 17:07:29
End at: 2019-03-27 17:07:59
Local clock offset: -0.058 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-03-27 20:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.99 Mbit/s
95th percentile per-packet one-way delay: 47.660 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 81.99 Mbit/s
95th percentile per-packet one-way delay: 47.660 ms
Loss rate: 0.42%
```

Run 3: Report of QUIC Cubic — Data Link

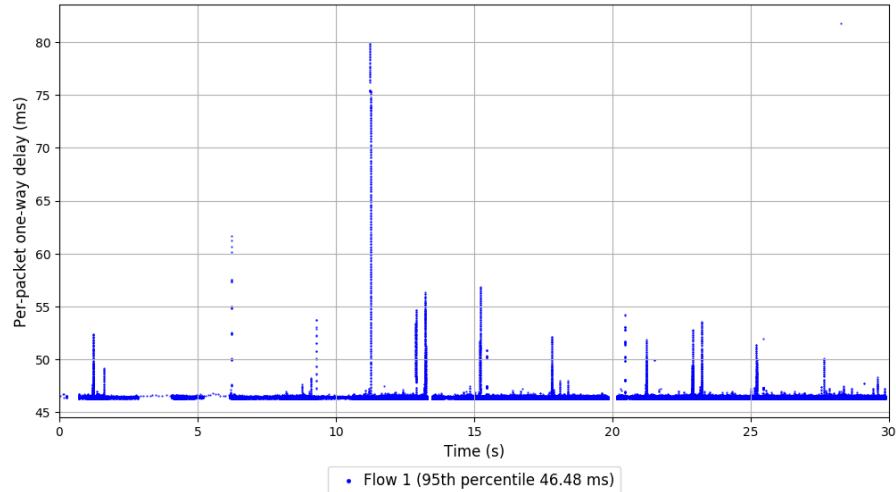
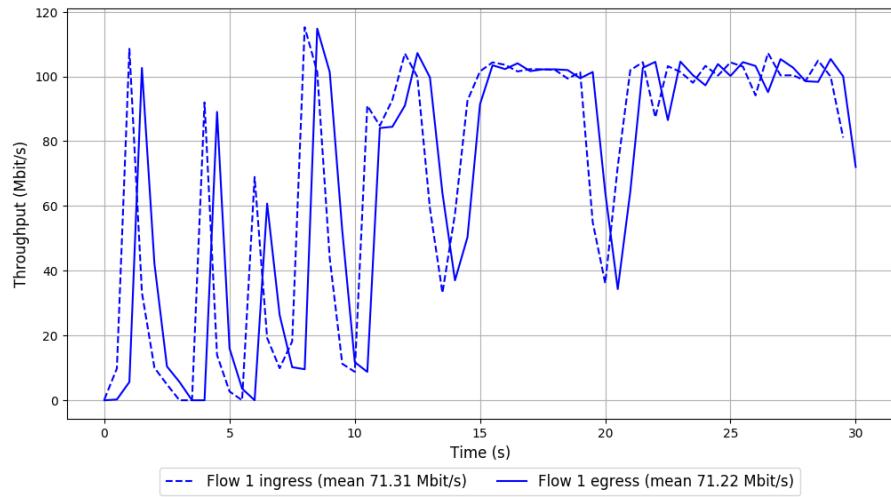


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-27 17:37:32
End at: 2019-03-27 17:38:02
Local clock offset: -0.097 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-03-27 20:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.22 Mbit/s
95th percentile per-packet one-way delay: 46.485 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 71.22 Mbit/s
95th percentile per-packet one-way delay: 46.485 ms
Loss rate: 0.43%
```

Run 4: Report of QUIC Cubic — Data Link

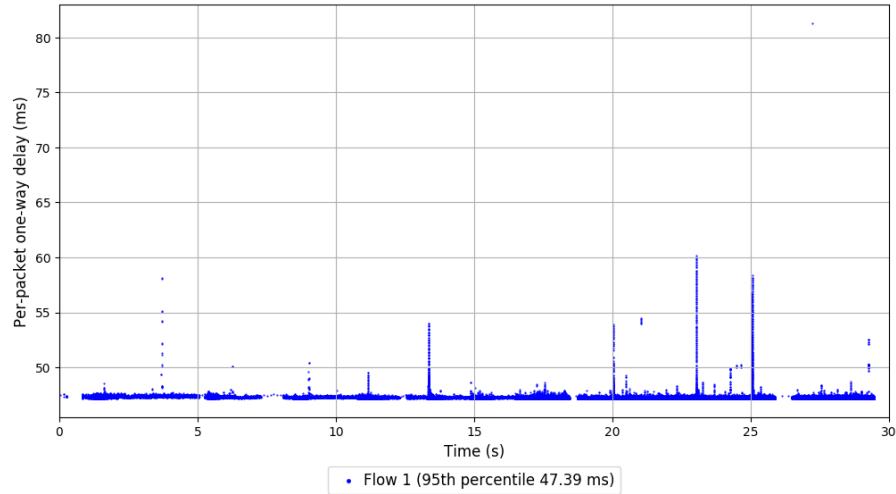
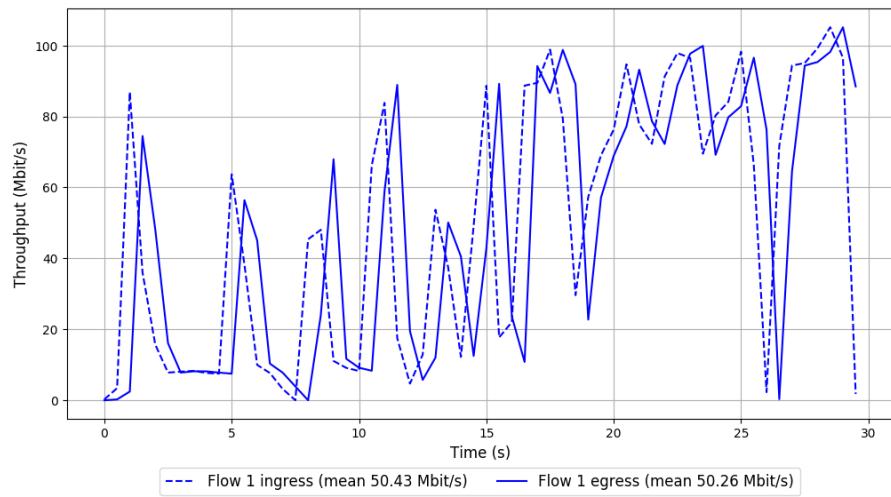


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-27 18:07:53
End at: 2019-03-27 18:08:23
Local clock offset: -0.111 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-03-27 20:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 47.388 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 47.388 ms
Loss rate: 0.66%
```

Run 5: Report of QUIC Cubic — Data Link

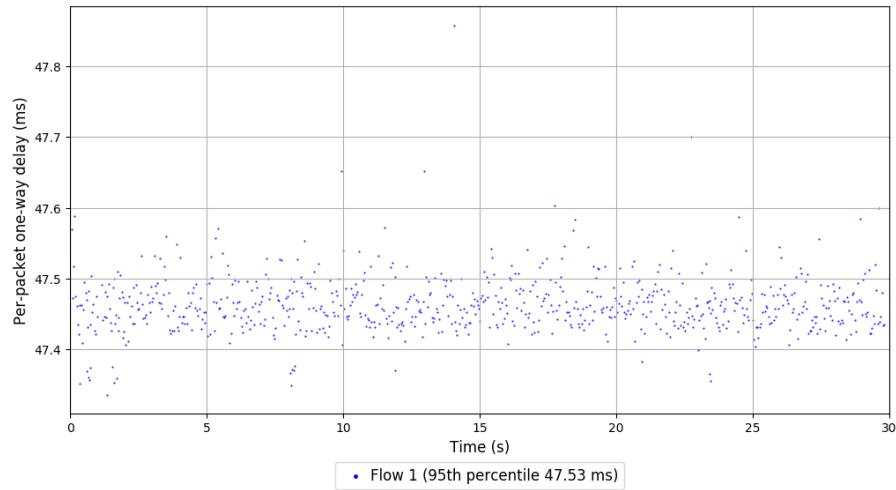
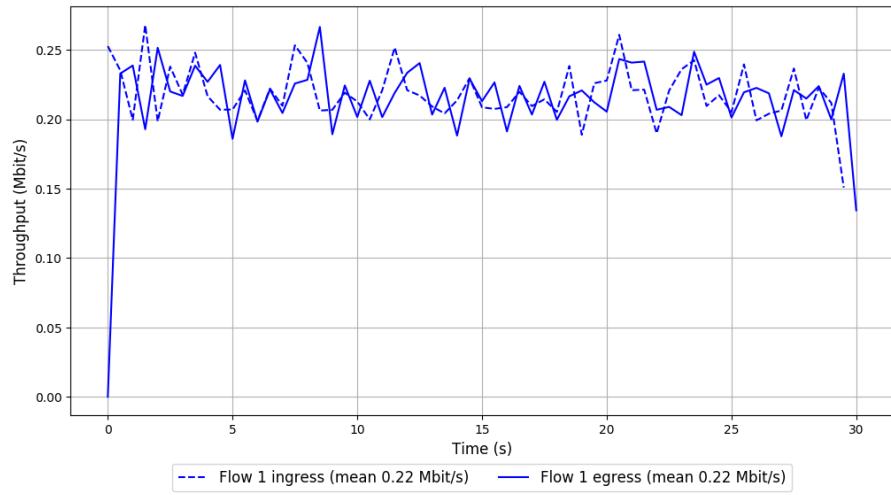


Run 1: Statistics of SCReAM

```
Start at: 2019-03-27 16:15:56
End at: 2019-03-27 16:16:26
Local clock offset: -0.044 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-03-27 20:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.529 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.529 ms
Loss rate: 0.25%
```

Run 1: Report of SCReAM — Data Link

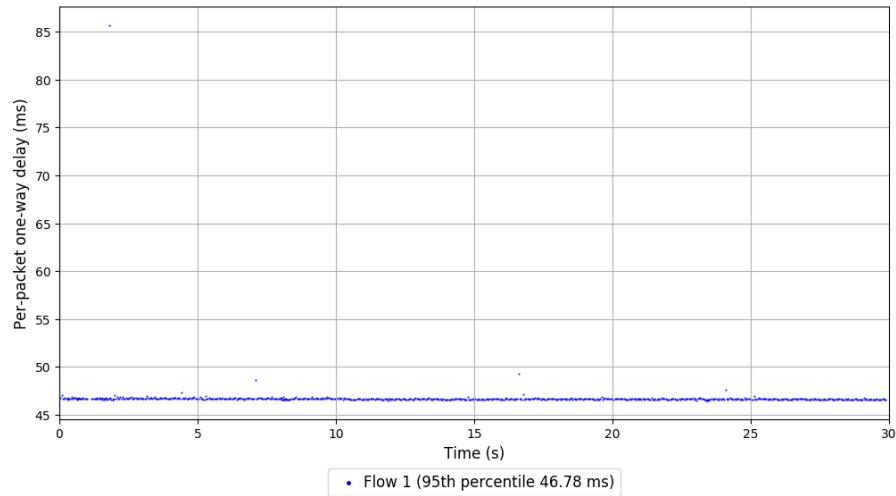
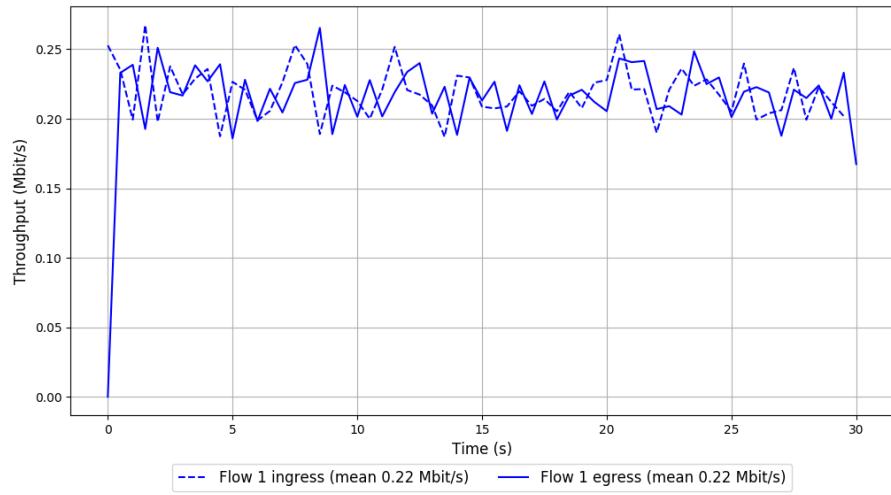


Run 2: Statistics of SCReAM

```
Start at: 2019-03-27 16:46:23
End at: 2019-03-27 16:46:53
Local clock offset: -0.054 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-03-27 20:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.783 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.783 ms
Loss rate: 0.39%
```

Run 2: Report of SCReAM — Data Link

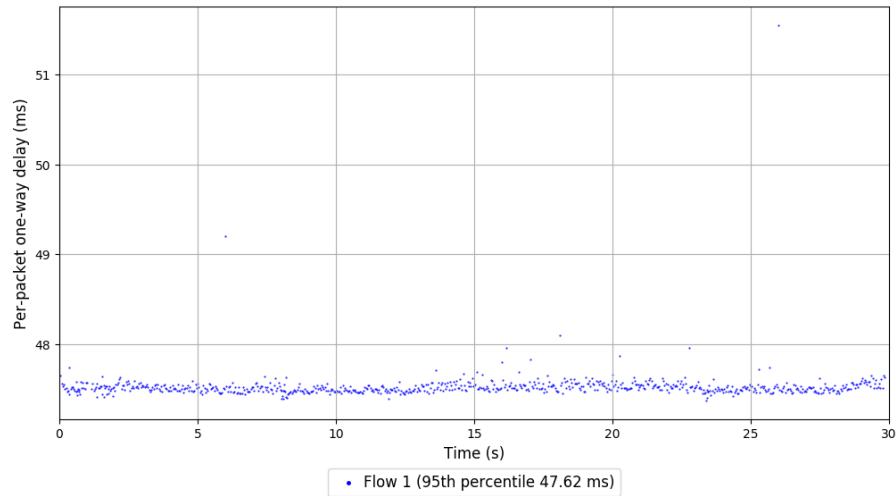
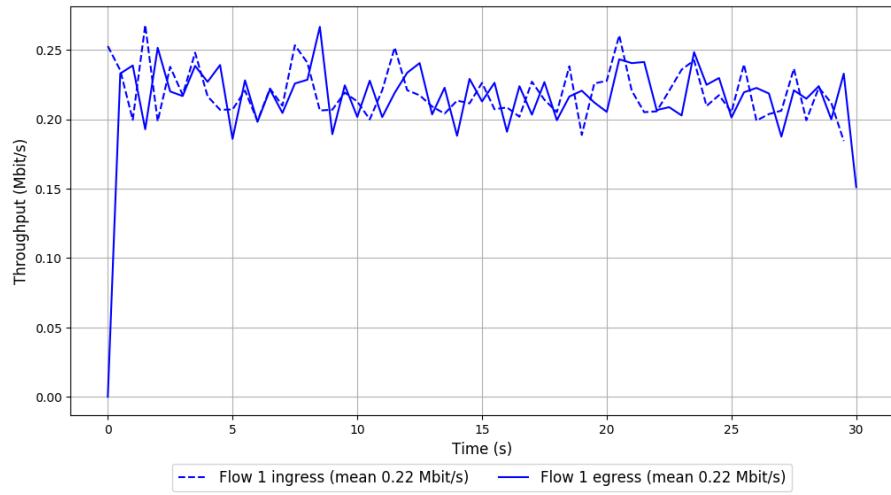


Run 3: Statistics of SCReAM

```
Start at: 2019-03-27 17:17:07
End at: 2019-03-27 17:17:37
Local clock offset: -0.095 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-03-27 20:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.619 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.619 ms
Loss rate: 0.38%
```

Run 3: Report of SCReAM — Data Link

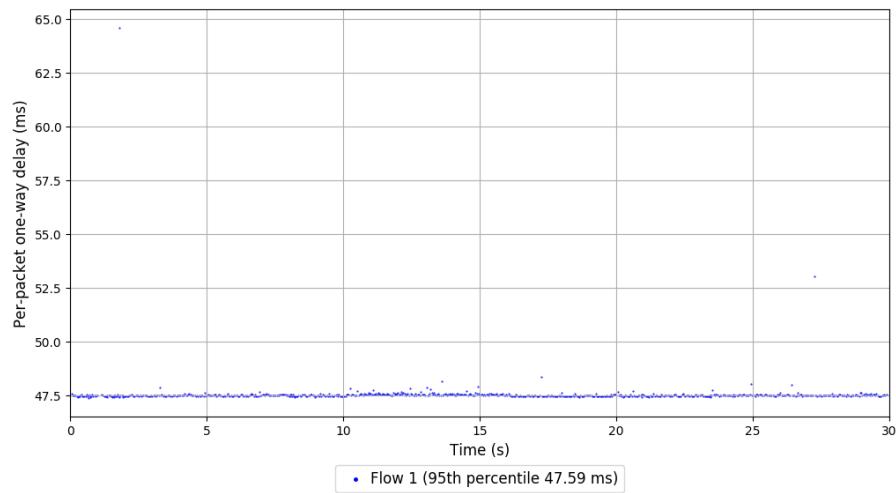
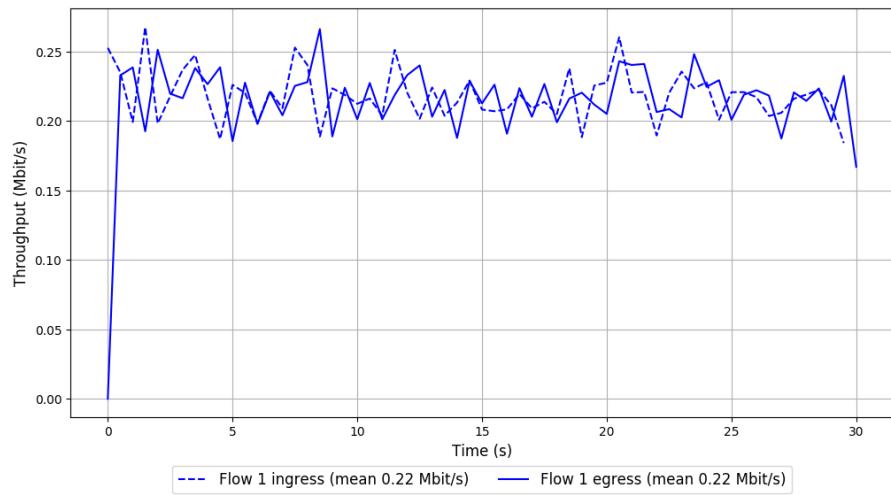


Run 4: Statistics of SCReAM

```
Start at: 2019-03-27 17:47:10
End at: 2019-03-27 17:47:40
Local clock offset: -0.092 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-03-27 20:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.593 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.593 ms
Loss rate: 0.26%
```

Run 4: Report of SCReAM — Data Link

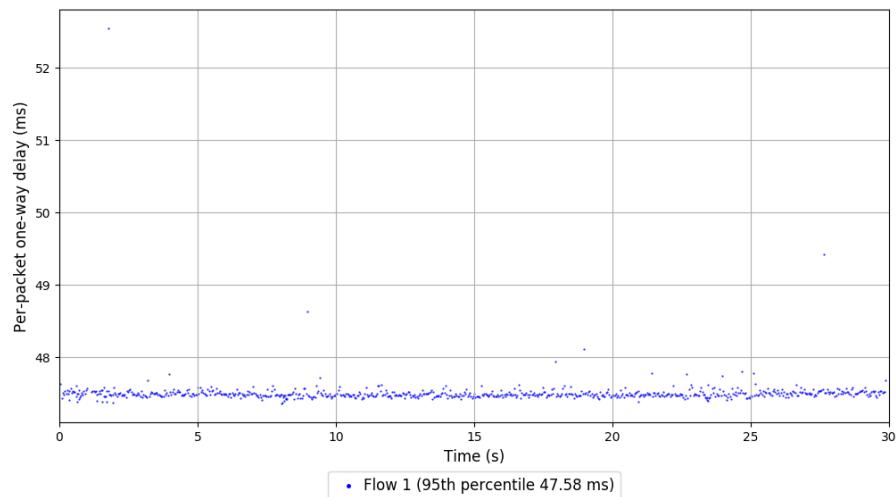
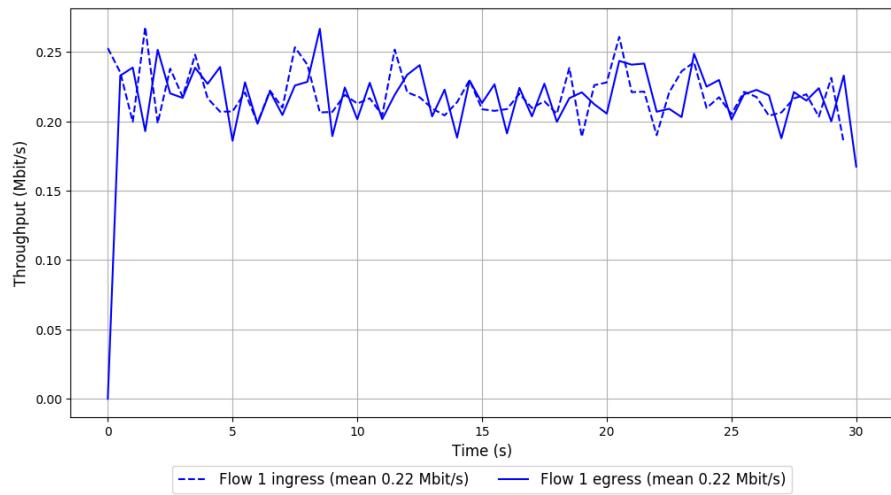


Run 5: Statistics of SCReAM

```
Start at: 2019-03-27 18:17:30
End at: 2019-03-27 18:18:00
Local clock offset: -0.125 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-03-27 20:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.578 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.578 ms
Loss rate: 0.26%
```

Run 5: Report of SCReAM — Data Link

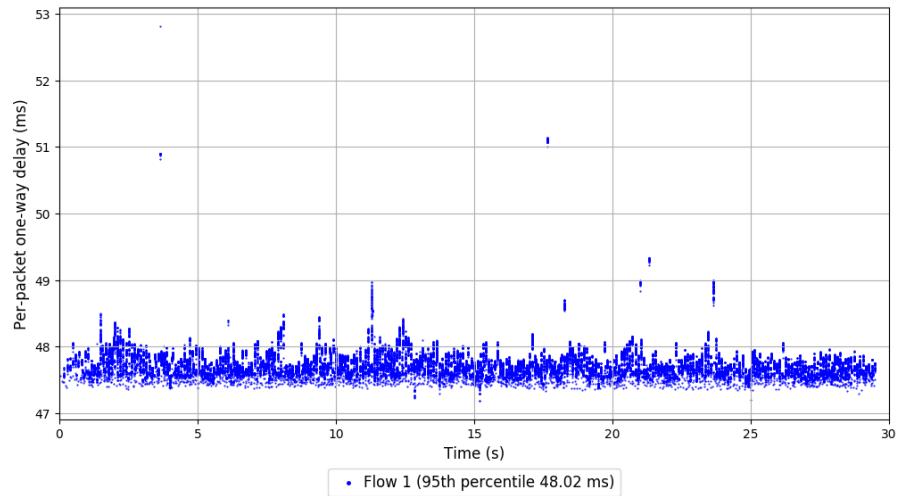
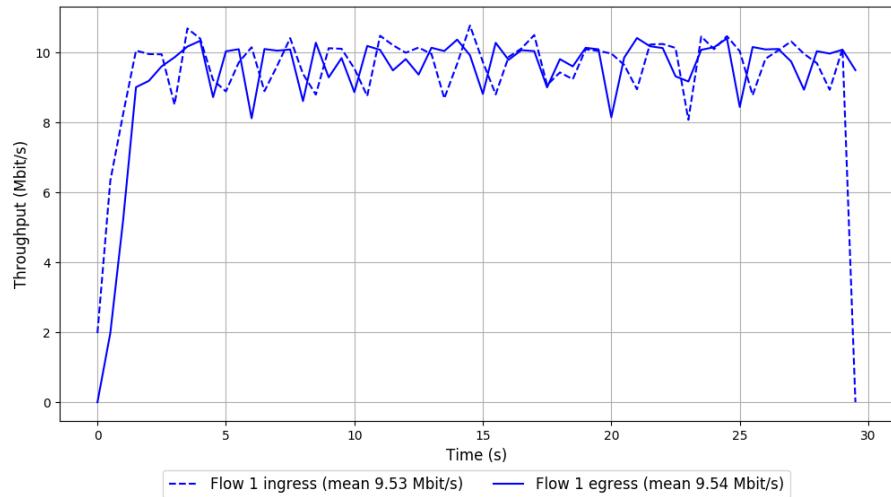


Run 1: Statistics of Sprout

```
Start at: 2019-03-27 16:11:29
End at: 2019-03-27 16:11:59
Local clock offset: -0.029 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-03-27 20:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.54 Mbit/s
95th percentile per-packet one-way delay: 48.024 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 9.54 Mbit/s
95th percentile per-packet one-way delay: 48.024 ms
Loss rate: 0.20%
```

Run 1: Report of Sprout — Data Link

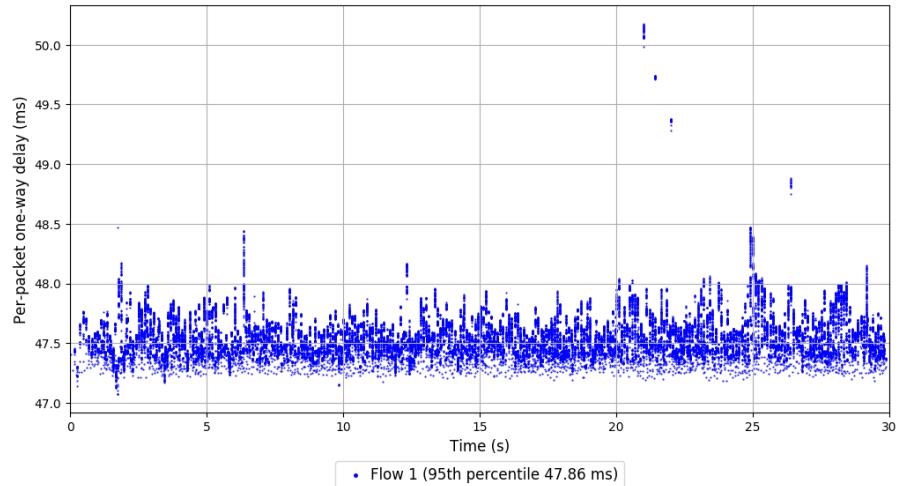
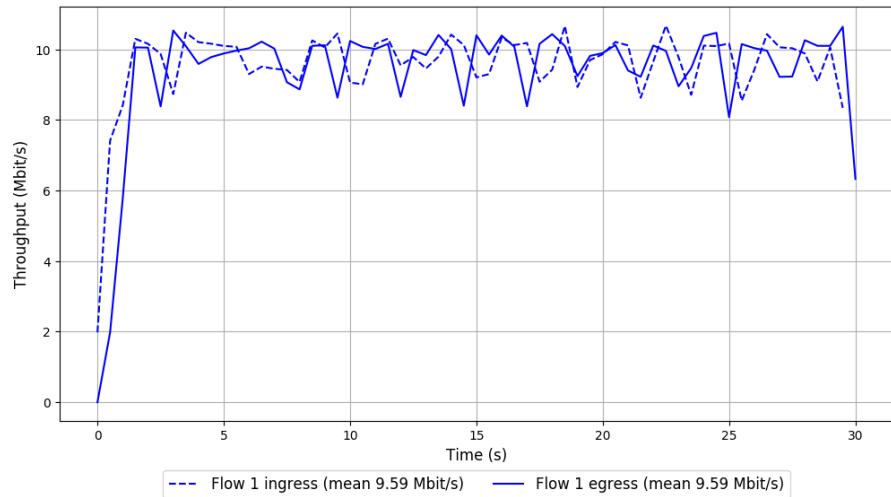


Run 2: Statistics of Sprout

```
Start at: 2019-03-27 16:42:11
End at: 2019-03-27 16:42:41
Local clock offset: -0.06 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-03-27 20:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.59 Mbit/s
95th percentile per-packet one-way delay: 47.859 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 9.59 Mbit/s
95th percentile per-packet one-way delay: 47.859 ms
Loss rate: 0.35%
```

Run 2: Report of Sprout — Data Link

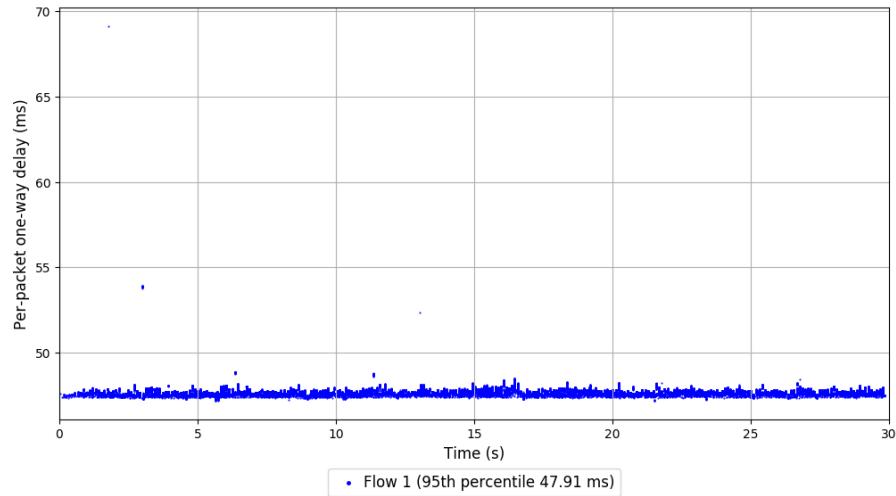
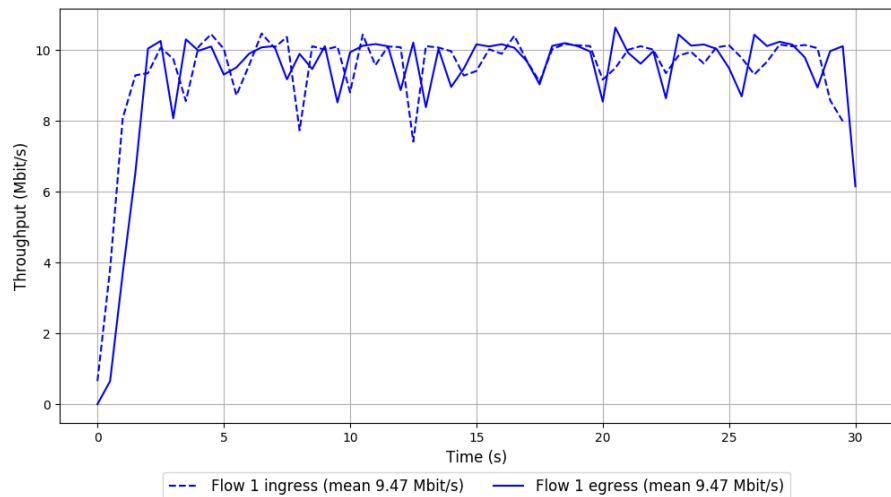


Run 3: Statistics of Sprout

```
Start at: 2019-03-27 17:12:54
End at: 2019-03-27 17:13:24
Local clock offset: -0.125 ms
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-03-27 20:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 47.915 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 47.915 ms
Loss rate: 0.34%
```

Run 3: Report of Sprout — Data Link

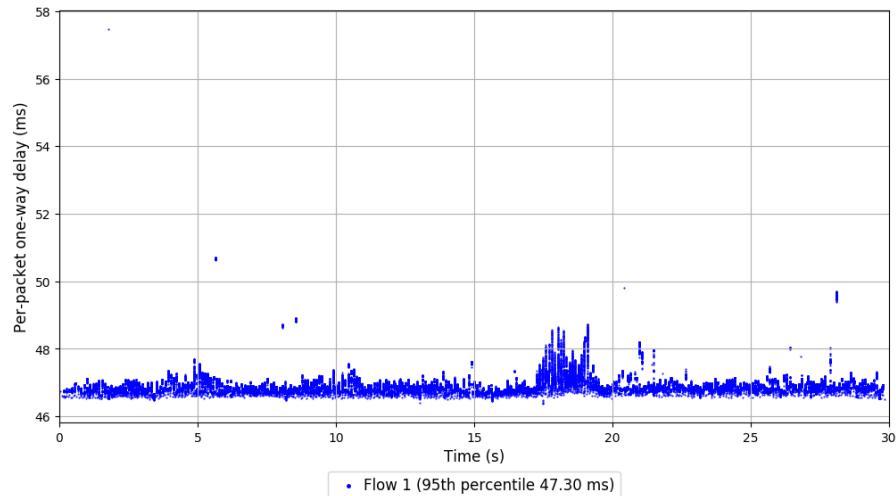
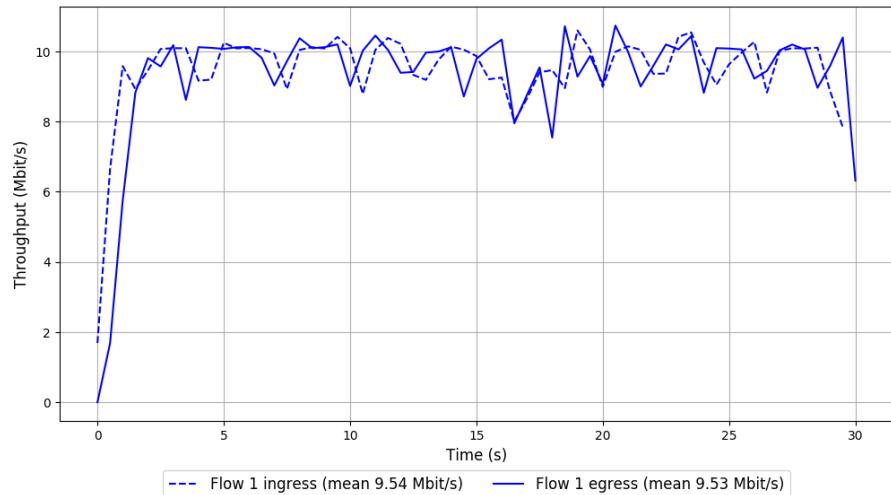


Run 4: Statistics of Sprout

```
Start at: 2019-03-27 17:42:57
End at: 2019-03-27 17:43:27
Local clock offset: -0.077 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-03-27 20:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 47.297 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 47.297 ms
Loss rate: 0.35%
```

Run 4: Report of Sprout — Data Link

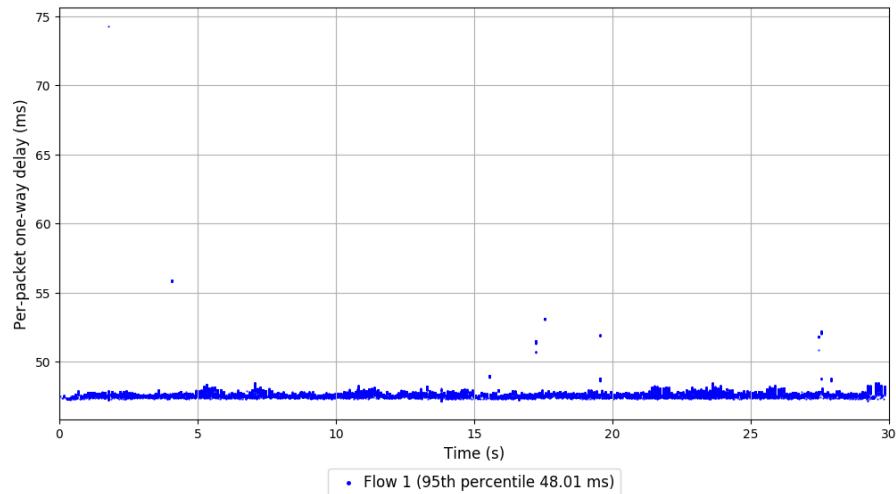
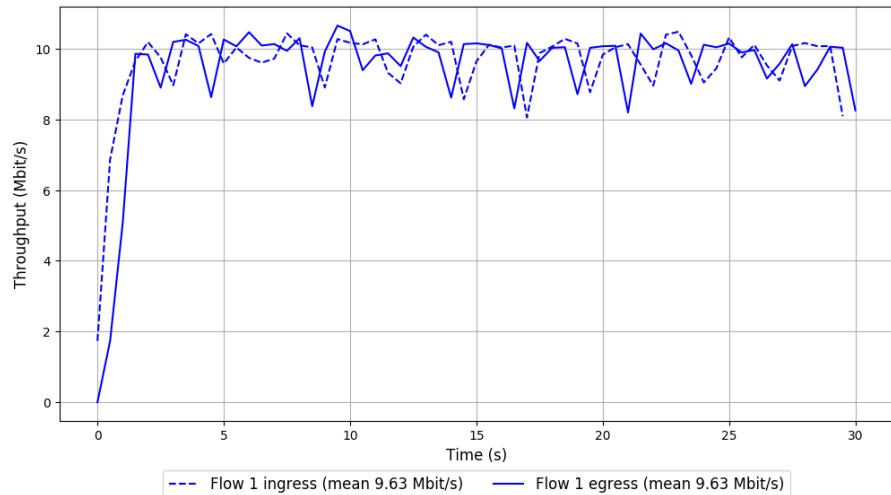


Run 5: Statistics of Sprout

```
Start at: 2019-03-27 18:13:18
End at: 2019-03-27 18:13:48
Local clock offset: -0.102 ms
Remote clock offset: 0.062 ms

# Below is generated by plot.py at 2019-03-27 20:15:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.63 Mbit/s
95th percentile per-packet one-way delay: 48.005 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 9.63 Mbit/s
95th percentile per-packet one-way delay: 48.005 ms
Loss rate: 0.32%
```

Run 5: Report of Sprout — Data Link

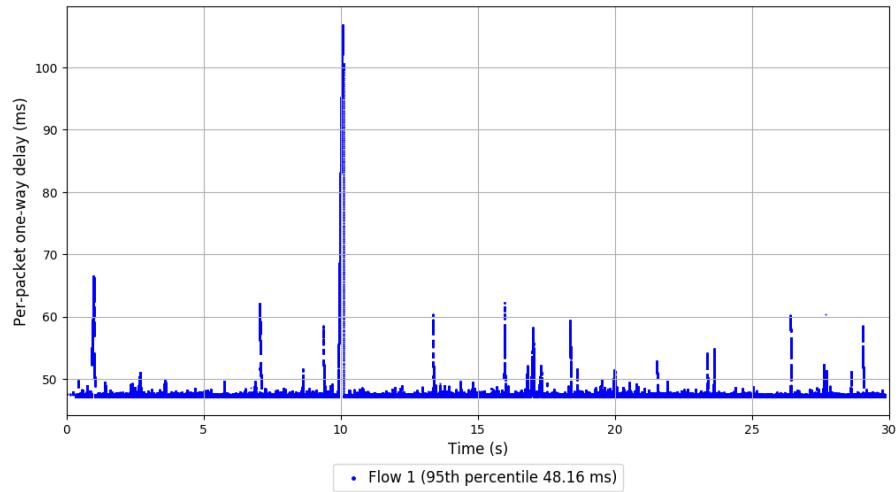
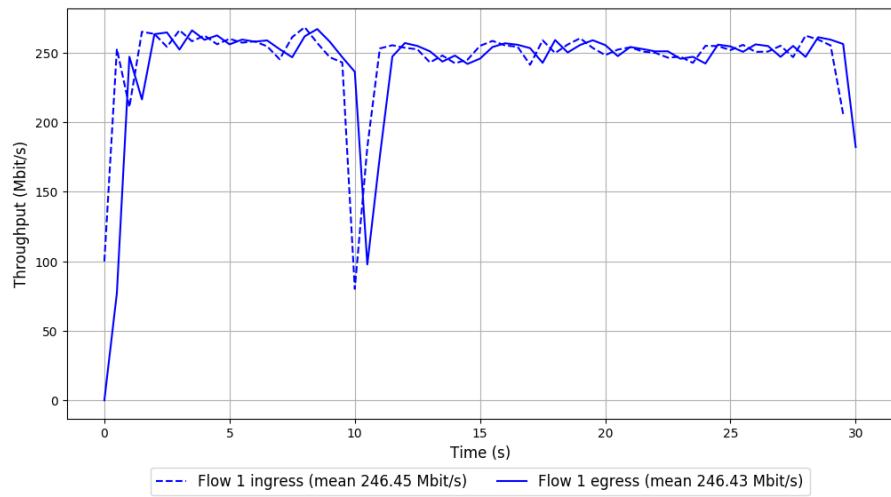


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-03-27 16:18:44
End at: 2019-03-27 16:19:14
Local clock offset: -0.027 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-03-27 20:19:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.43 Mbit/s
95th percentile per-packet one-way delay: 48.165 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 246.43 Mbit/s
95th percentile per-packet one-way delay: 48.165 ms
Loss rate: 0.33%
```

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

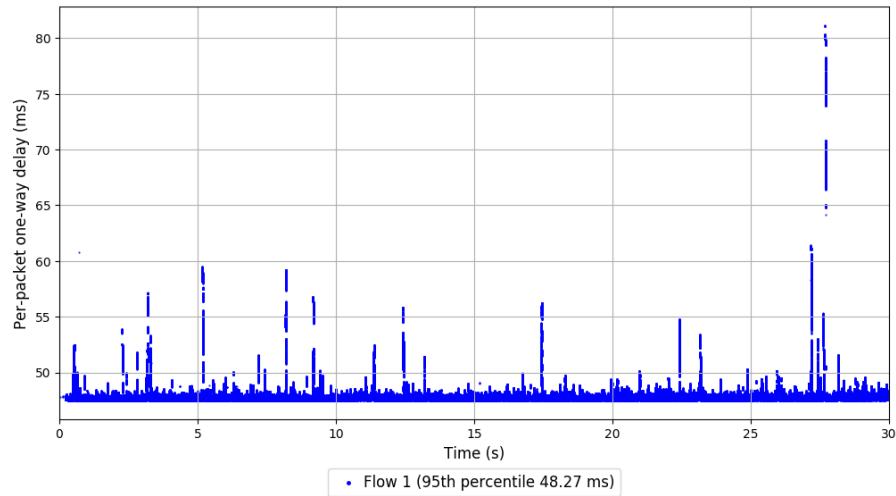
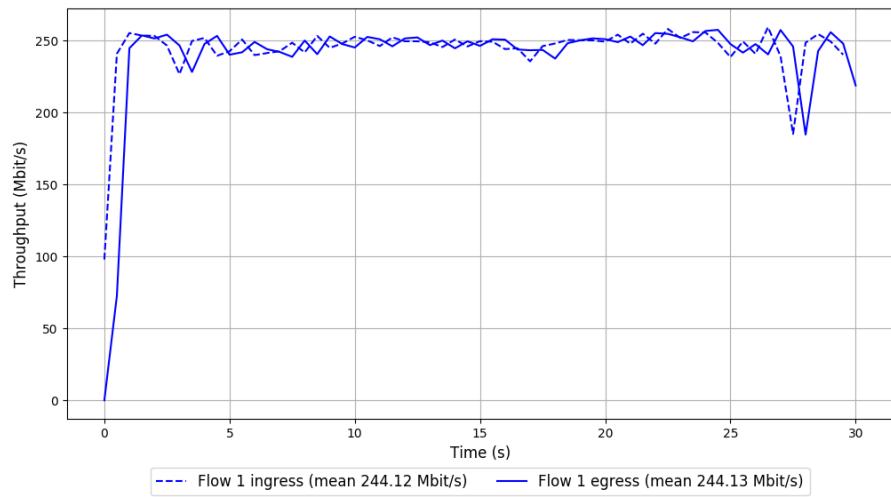


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-03-27 16:49:10
End at: 2019-03-27 16:49:40
Local clock offset: -0.088 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-03-27 20:19:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.13 Mbit/s
95th percentile per-packet one-way delay: 48.265 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 244.13 Mbit/s
95th percentile per-packet one-way delay: 48.265 ms
Loss rate: 0.32%
```

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

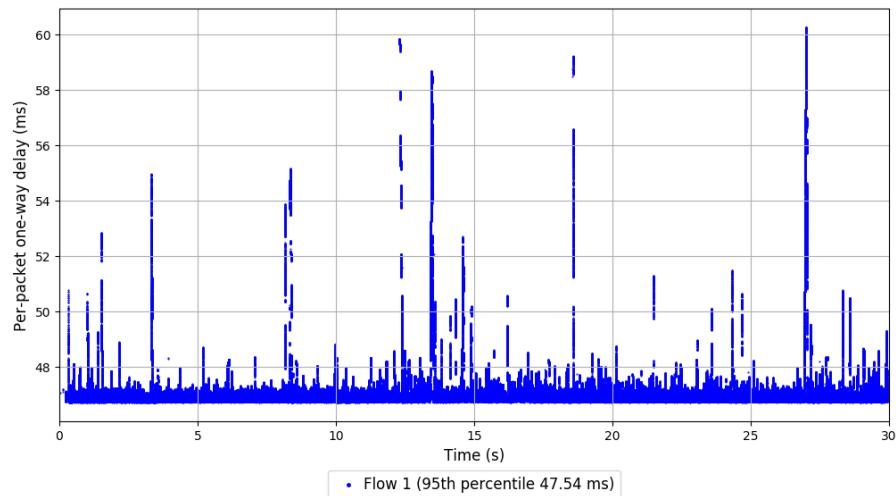
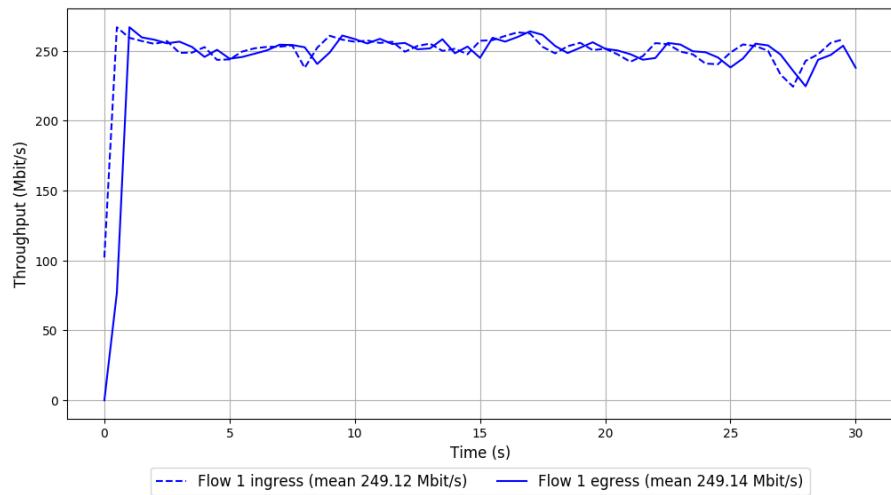


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-03-27 17:19:49
End at: 2019-03-27 17:20:19
Local clock offset: -0.486 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-03-27 20:19:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.14 Mbit/s
95th percentile per-packet one-way delay: 47.537 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 249.14 Mbit/s
95th percentile per-packet one-way delay: 47.537 ms
Loss rate: 0.31%
```

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

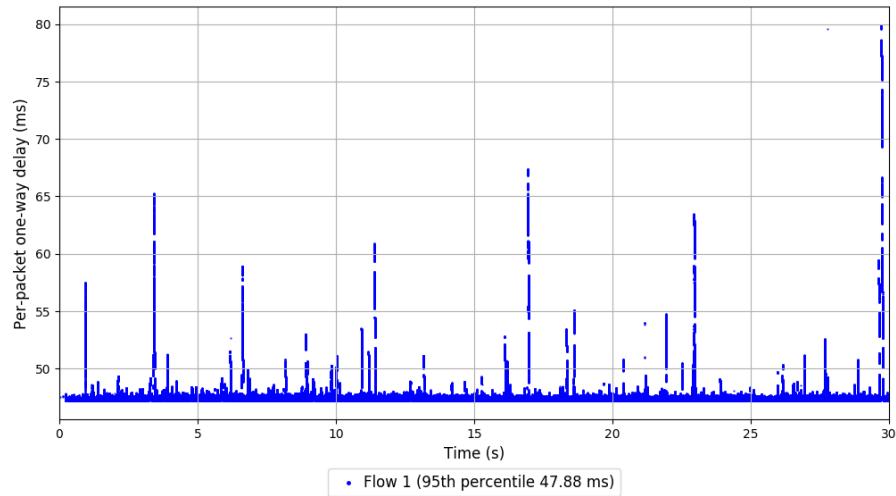
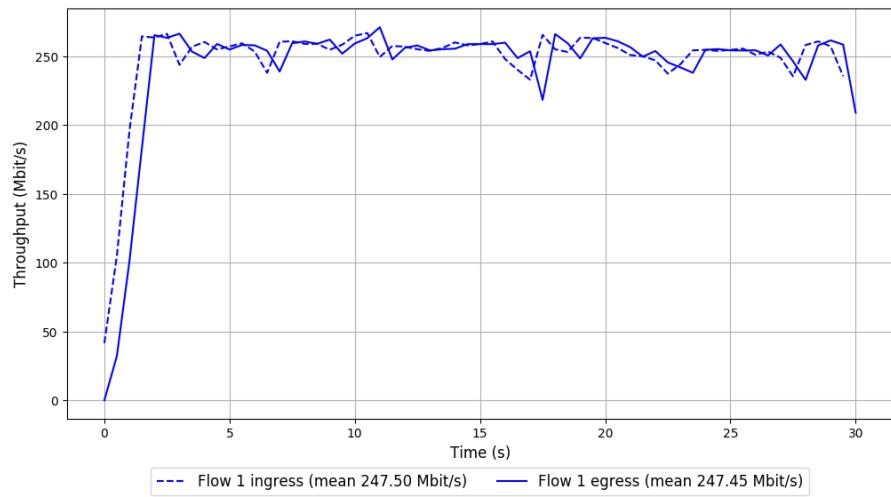


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-03-27 17:49:57
End at: 2019-03-27 17:50:27
Local clock offset: -0.094 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-03-27 20:19:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.45 Mbit/s
95th percentile per-packet one-way delay: 47.881 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 247.45 Mbit/s
95th percentile per-packet one-way delay: 47.881 ms
Loss rate: 0.34%
```

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

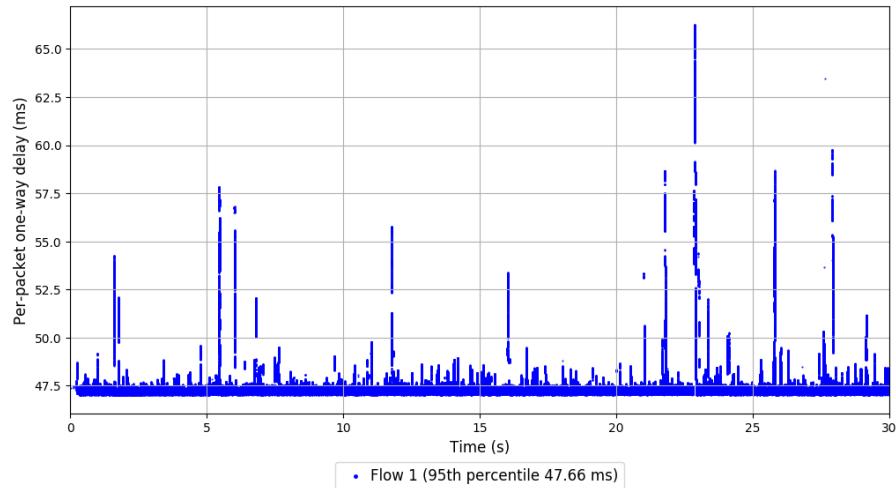
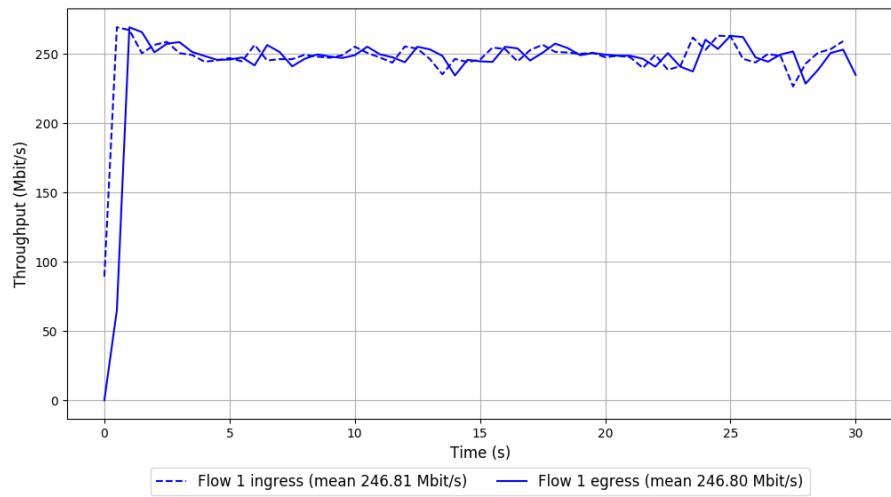


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-03-27 18:20:12
End at: 2019-03-27 18:20:42
Local clock offset: -0.135 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-03-27 20:19:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.80 Mbit/s
95th percentile per-packet one-way delay: 47.663 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 246.80 Mbit/s
95th percentile per-packet one-way delay: 47.663 ms
Loss rate: 0.32%
```

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

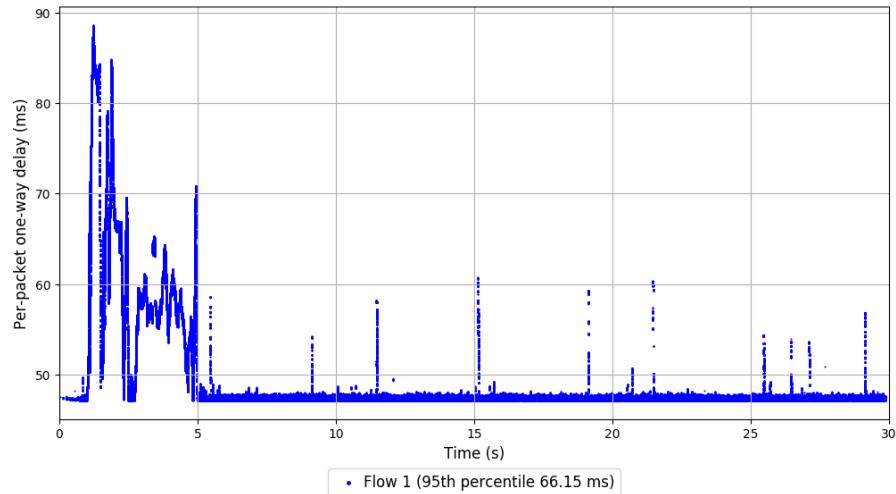
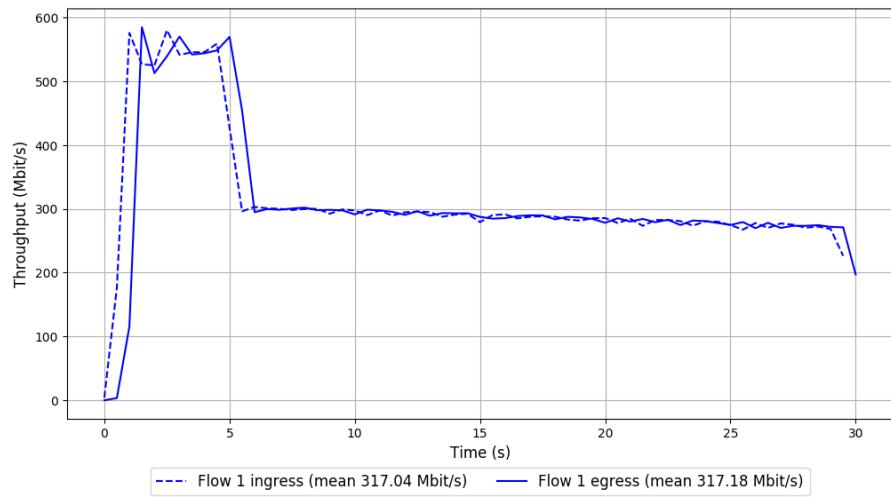


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-27 16:07:12
End at: 2019-03-27 16:07:42
Local clock offset: -0.025 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-03-27 20:19:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.18 Mbit/s
95th percentile per-packet one-way delay: 66.149 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 317.18 Mbit/s
95th percentile per-packet one-way delay: 66.149 ms
Loss rate: 0.27%
```

Run 1: Report of TCP Vegas — Data Link

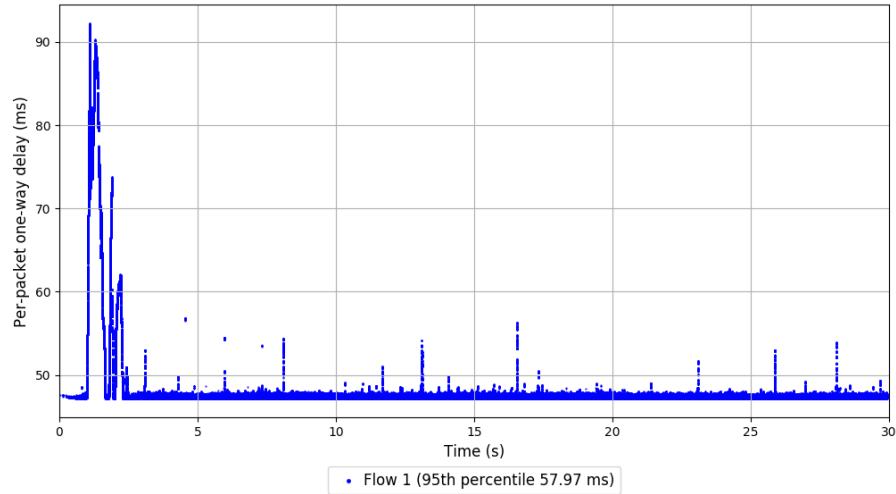
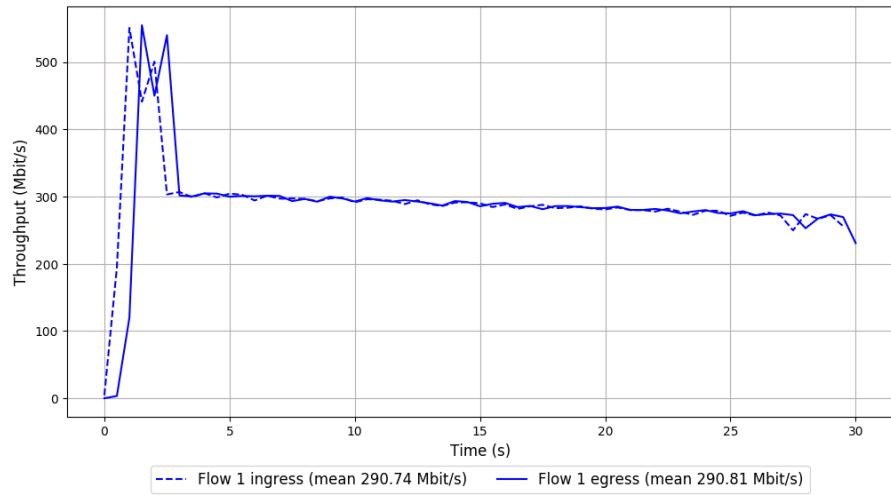


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-27 16:37:55
End at: 2019-03-27 16:38:25
Local clock offset: -0.035 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-03-27 20:21:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 290.81 Mbit/s
95th percentile per-packet one-way delay: 57.974 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 290.81 Mbit/s
95th percentile per-packet one-way delay: 57.974 ms
Loss rate: 0.29%
```

Run 2: Report of TCP Vegas — Data Link

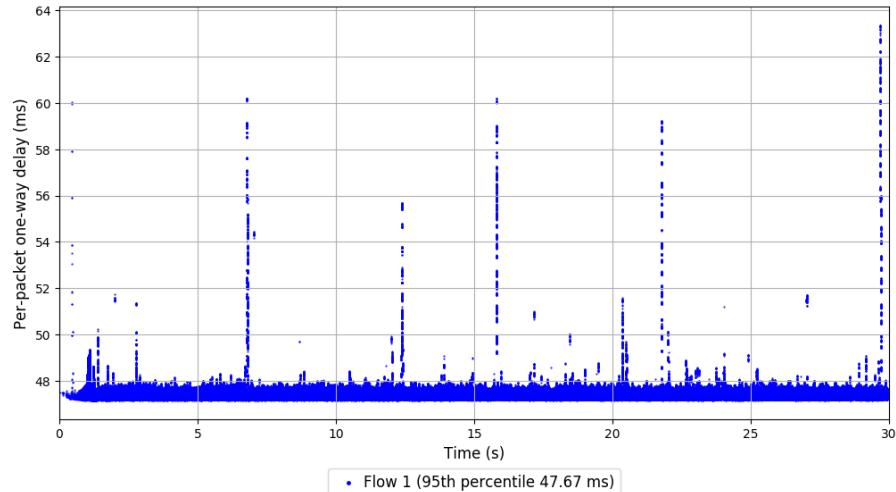
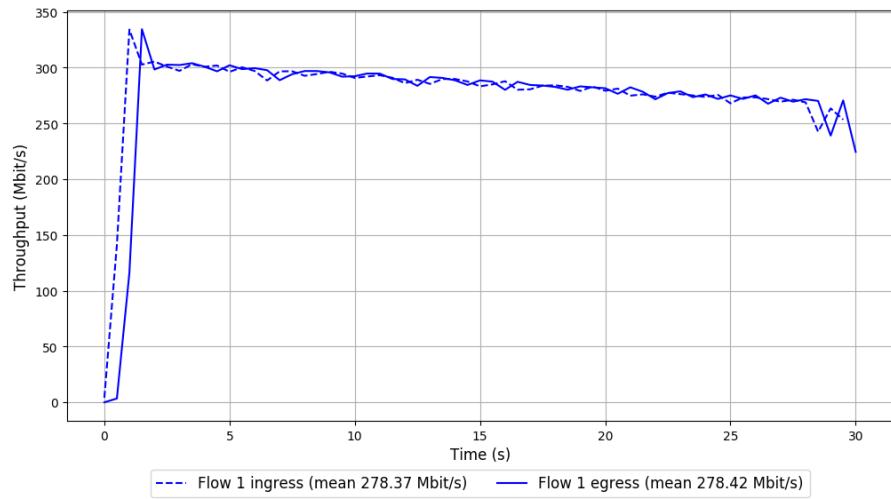


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-27 17:08:41
End at: 2019-03-27 17:09:11
Local clock offset: -0.1 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-03-27 20:21:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.42 Mbit/s
95th percentile per-packet one-way delay: 47.670 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 278.42 Mbit/s
95th percentile per-packet one-way delay: 47.670 ms
Loss rate: 0.30%
```

Run 3: Report of TCP Vegas — Data Link

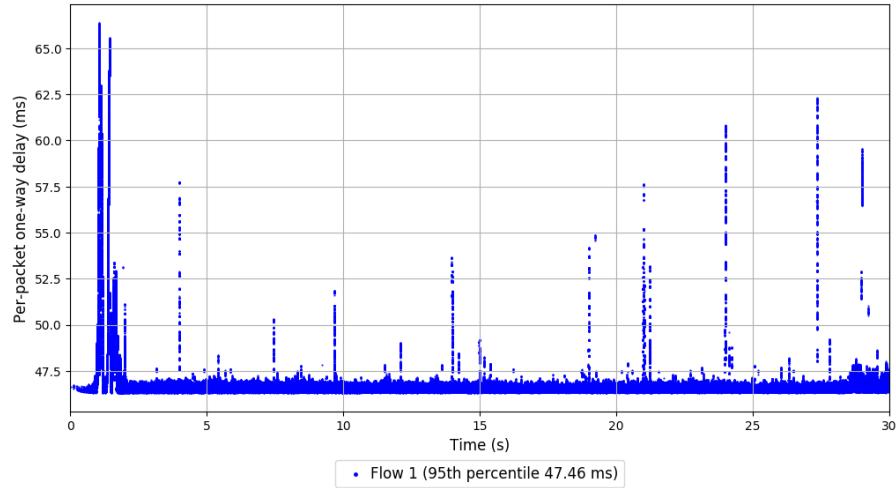
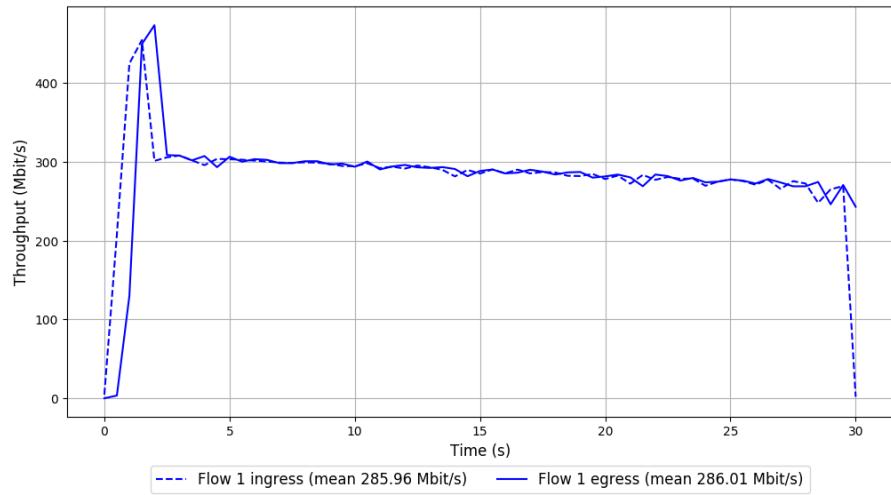


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-27 17:38:44
End at: 2019-03-27 17:39:14
Local clock offset: -0.108 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-03-27 20:24:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 286.01 Mbit/s
95th percentile per-packet one-way delay: 47.456 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 286.01 Mbit/s
95th percentile per-packet one-way delay: 47.456 ms
Loss rate: 0.29%
```

Run 4: Report of TCP Vegas — Data Link

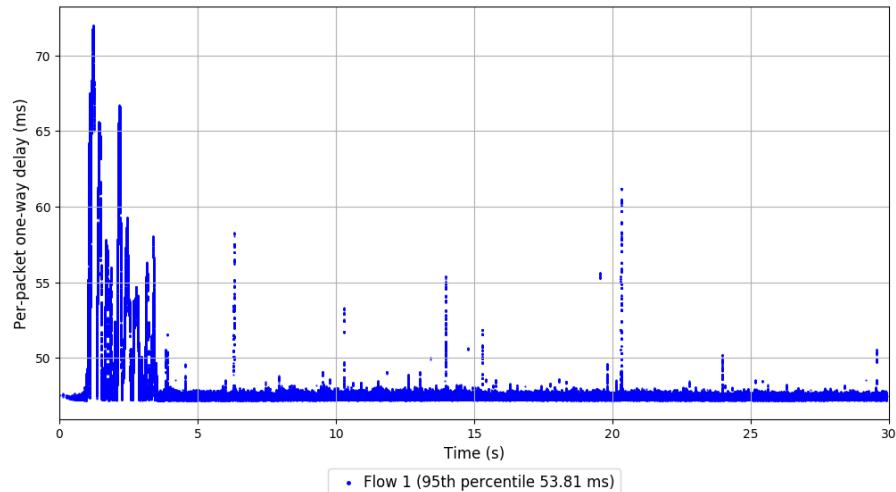
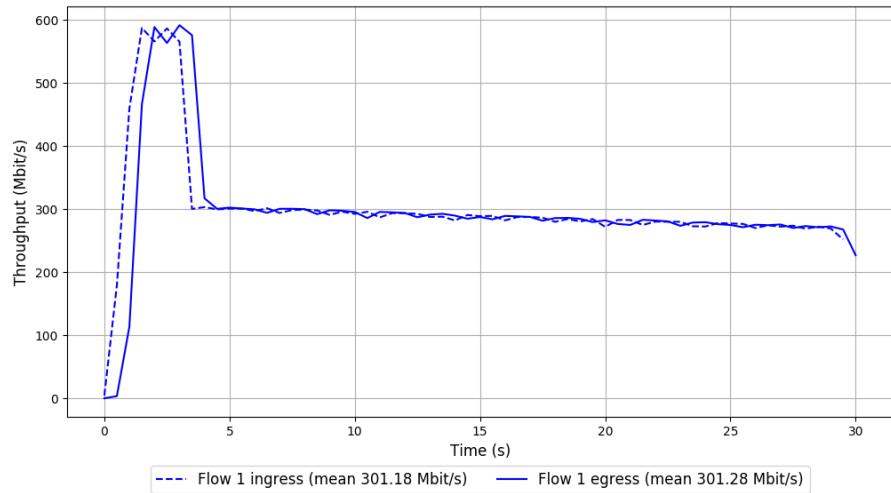


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-27 18:09:03
End at: 2019-03-27 18:09:33
Local clock offset: -0.12 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-03-27 20:25:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 301.28 Mbit/s
95th percentile per-packet one-way delay: 53.814 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 301.28 Mbit/s
95th percentile per-packet one-way delay: 53.814 ms
Loss rate: 0.29%
```

Run 5: Report of TCP Vegas — Data Link

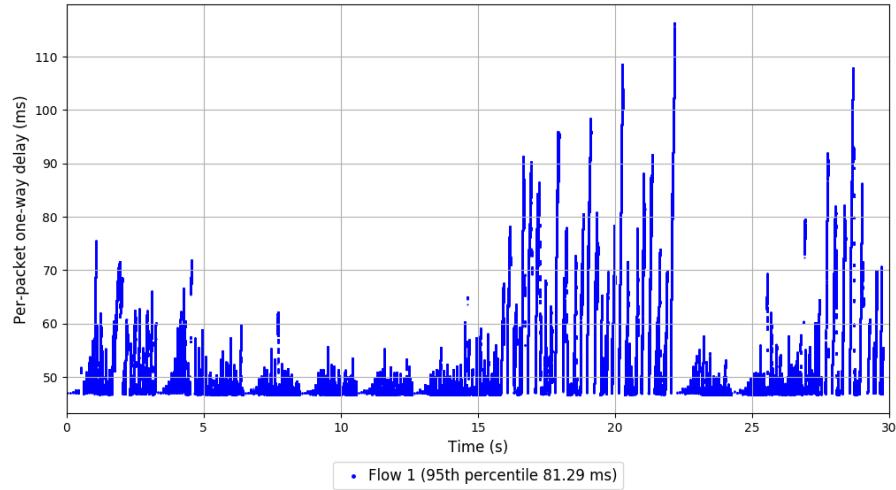
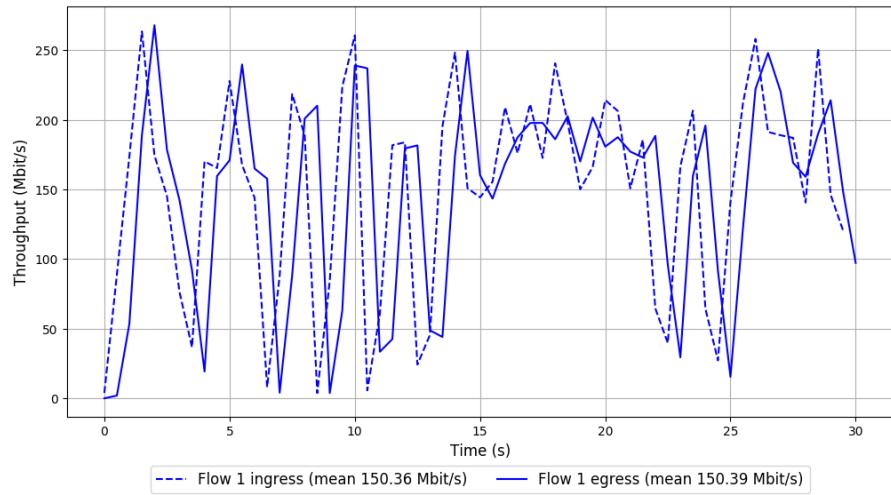


Run 1: Statistics of Verus

```
Start at: 2019-03-27 16:02:03
End at: 2019-03-27 16:02:33
Local clock offset: 0.324 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-03-27 20:25:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 150.39 Mbit/s
95th percentile per-packet one-way delay: 81.294 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 150.39 Mbit/s
95th percentile per-packet one-way delay: 81.294 ms
Loss rate: 0.65%
```

Run 1: Report of Verus — Data Link

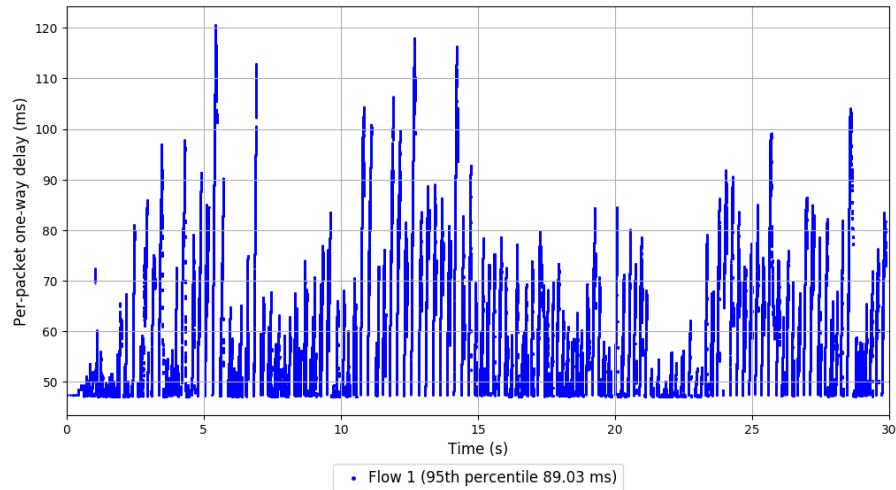
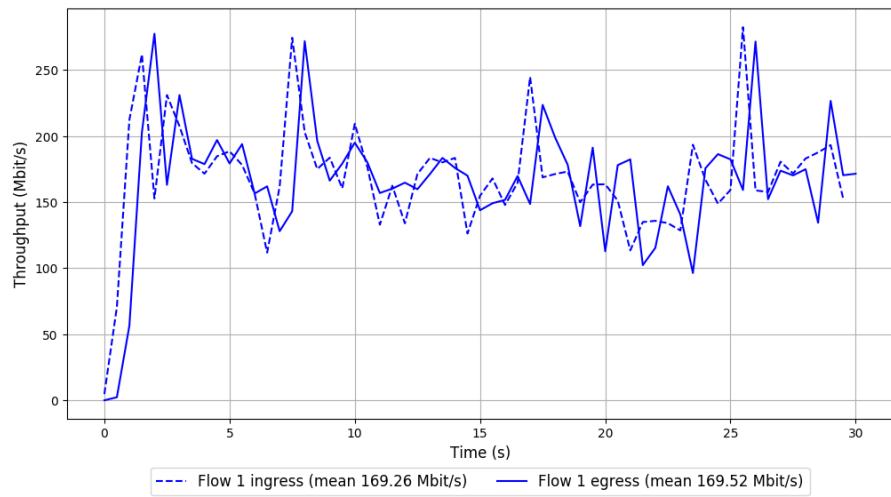


Run 2: Statistics of Verus

```
Start at: 2019-03-27 16:32:24
End at: 2019-03-27 16:32:54
Local clock offset: -0.044 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-03-27 20:25:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.52 Mbit/s
95th percentile per-packet one-way delay: 89.034 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 169.52 Mbit/s
95th percentile per-packet one-way delay: 89.034 ms
Loss rate: 0.22%
```

Run 2: Report of Verus — Data Link

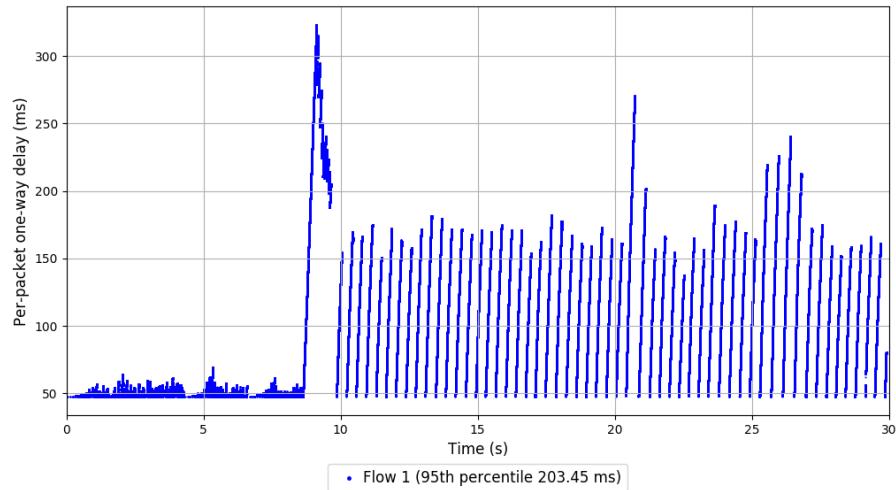
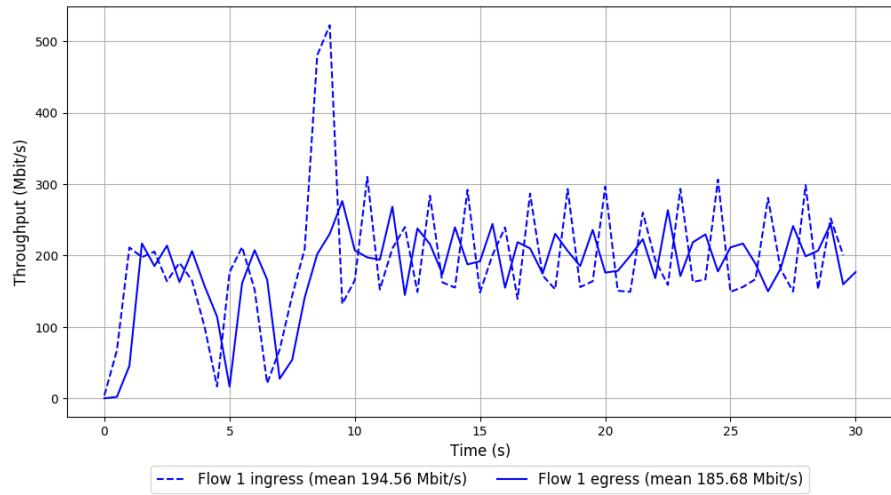


Run 3: Statistics of Verus

```
Start at: 2019-03-27 17:03:04
End at: 2019-03-27 17:03:34
Local clock offset: -0.068 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-03-27 20:26:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.68 Mbit/s
95th percentile per-packet one-way delay: 203.447 ms
Loss rate: 4.71%
-- Flow 1:
Average throughput: 185.68 Mbit/s
95th percentile per-packet one-way delay: 203.447 ms
Loss rate: 4.71%
```

Run 3: Report of Verus — Data Link

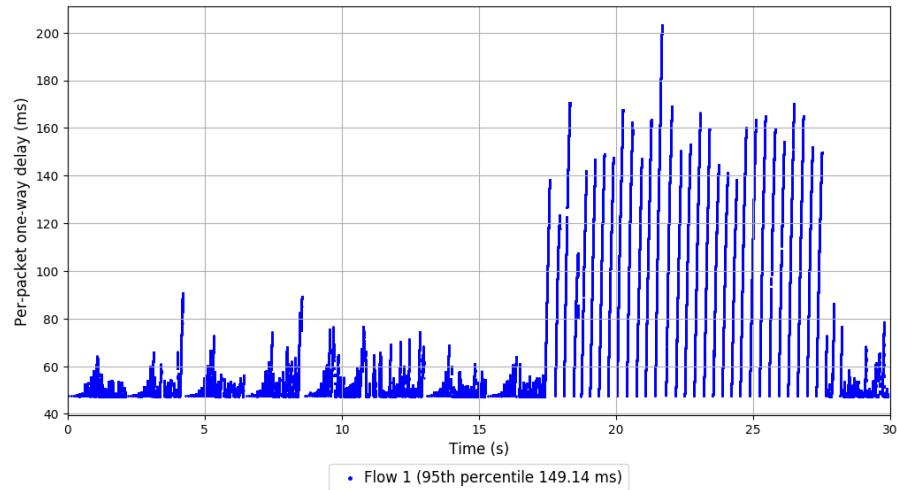
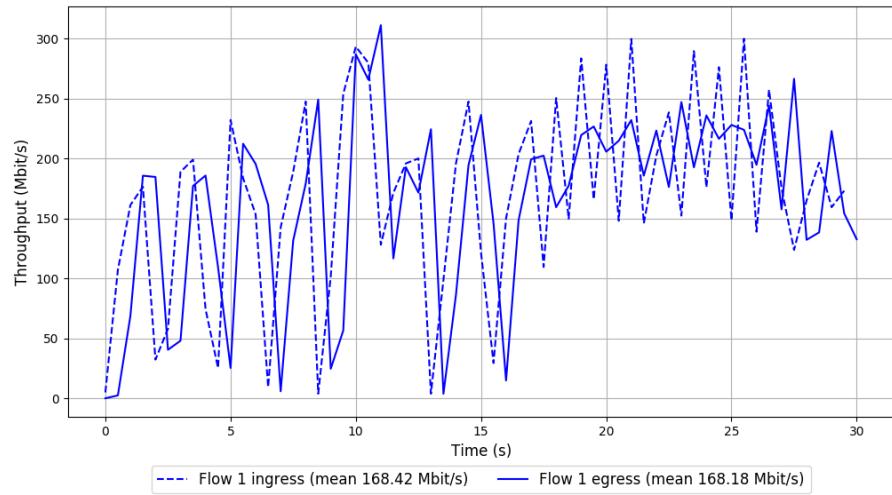


Run 4: Statistics of Verus

```
Start at: 2019-03-27 17:33:10
End at: 2019-03-27 17:33:40
Local clock offset: -0.101 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-03-27 20:26:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.18 Mbit/s
95th percentile per-packet one-way delay: 149.140 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 168.18 Mbit/s
95th percentile per-packet one-way delay: 149.140 ms
Loss rate: 0.45%
```

Run 4: Report of Verus — Data Link

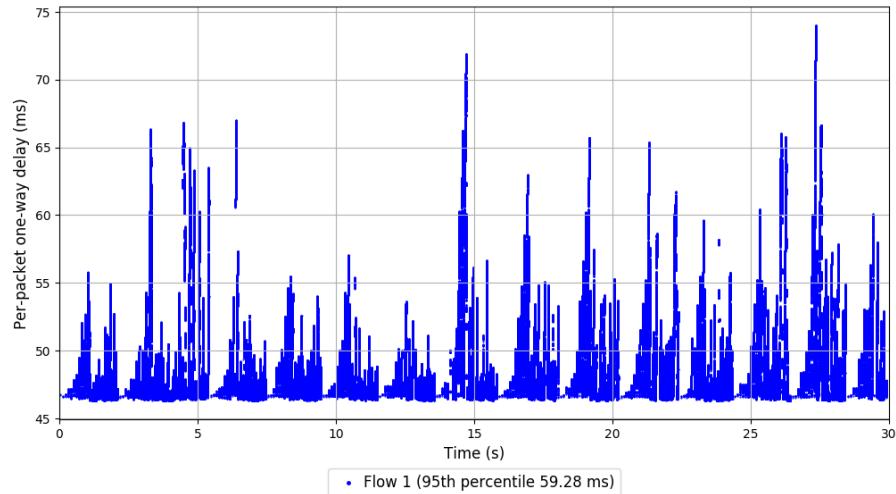
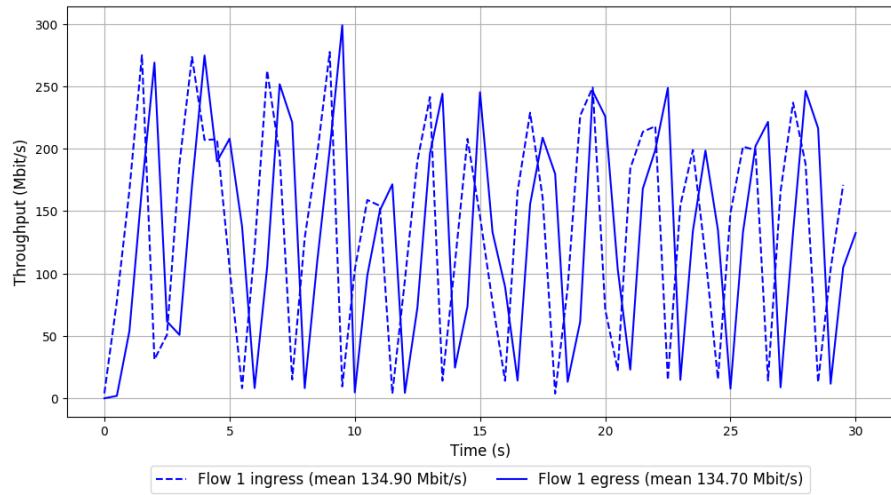


Run 5: Statistics of Verus

```
Start at: 2019-03-27 18:03:33
End at: 2019-03-27 18:04:03
Local clock offset: -0.091 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-03-27 20:26:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.70 Mbit/s
95th percentile per-packet one-way delay: 59.276 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 134.70 Mbit/s
95th percentile per-packet one-way delay: 59.276 ms
Loss rate: 0.48%
```

Run 5: Report of Verus — Data Link

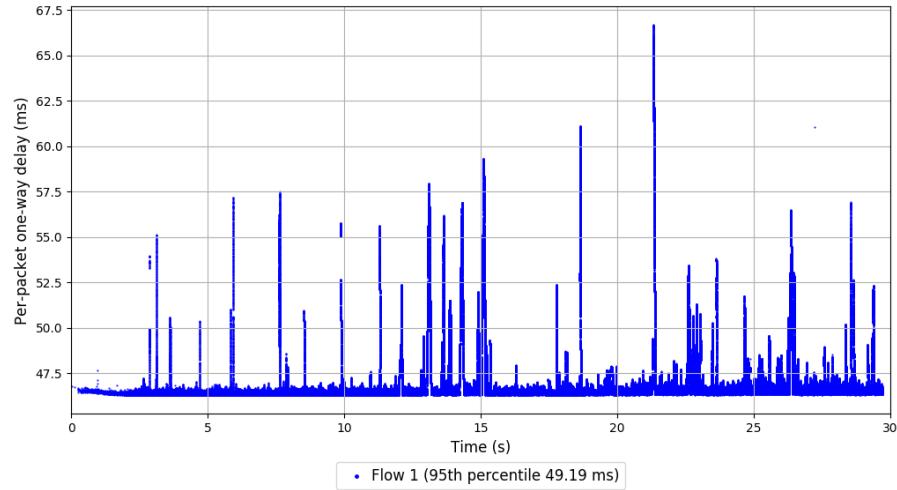
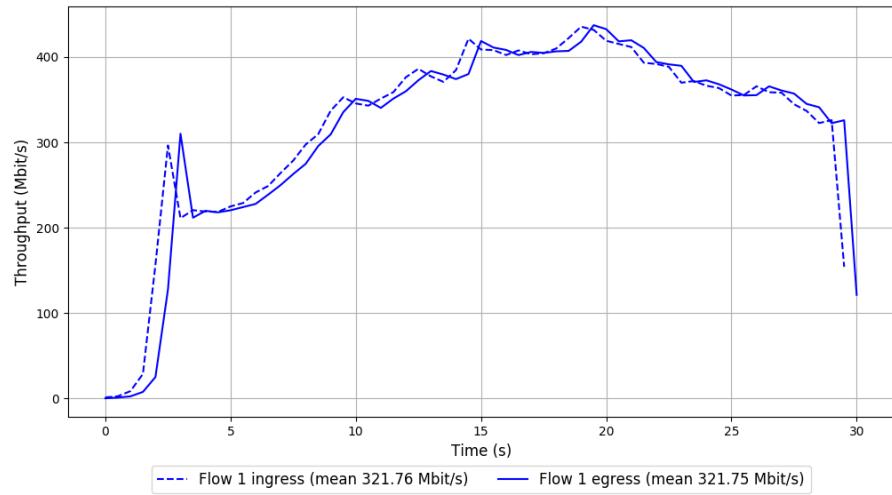


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-03-27 16:25:10
End at: 2019-03-27 16:25:40
Local clock offset: -0.002 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-03-27 20:27:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 321.75 Mbit/s
95th percentile per-packet one-way delay: 49.194 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 321.75 Mbit/s
95th percentile per-packet one-way delay: 49.194 ms
Loss rate: 0.32%
```

Run 1: Report of PCC-Vivace — Data Link

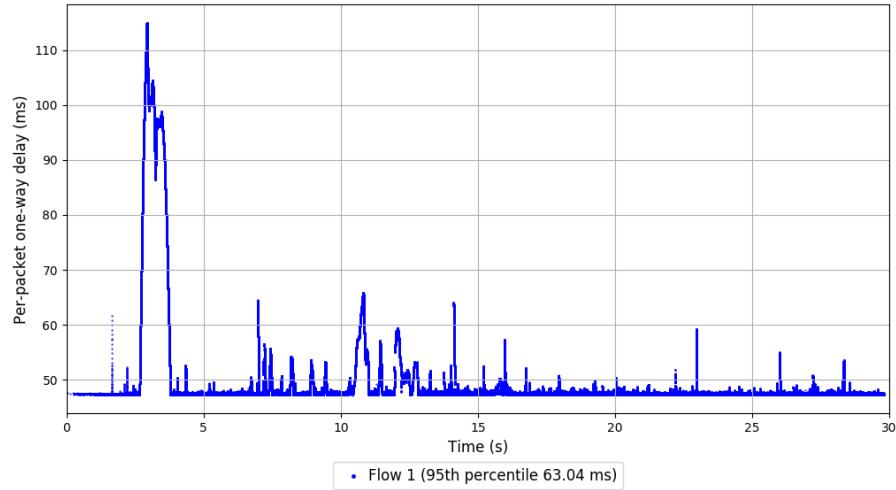
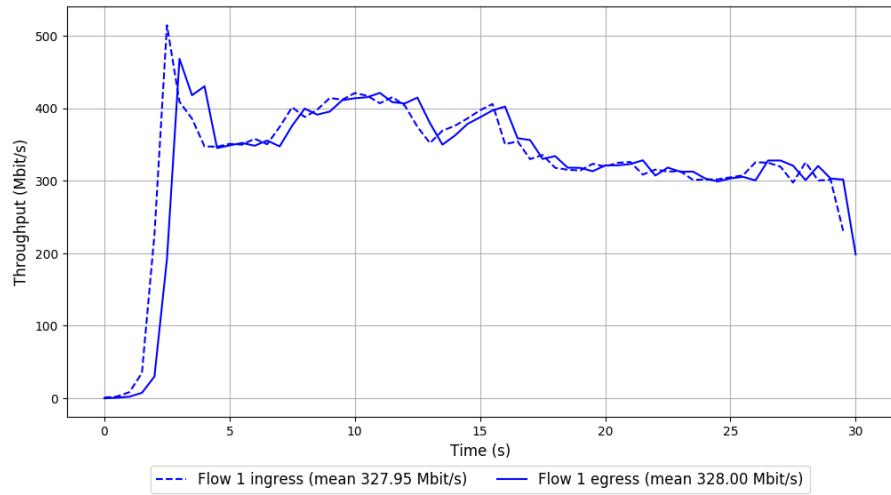


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-27 16:55:45
End at: 2019-03-27 16:56:15
Local clock offset: -0.078 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-03-27 20:28:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.00 Mbit/s
95th percentile per-packet one-way delay: 63.037 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 328.00 Mbit/s
95th percentile per-packet one-way delay: 63.037 ms
Loss rate: 0.30%
```

Run 2: Report of PCC-Vivace — Data Link

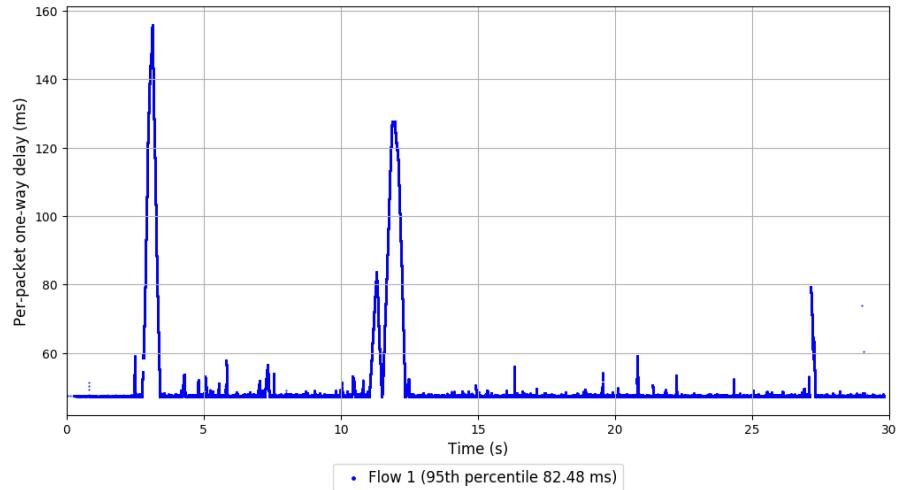
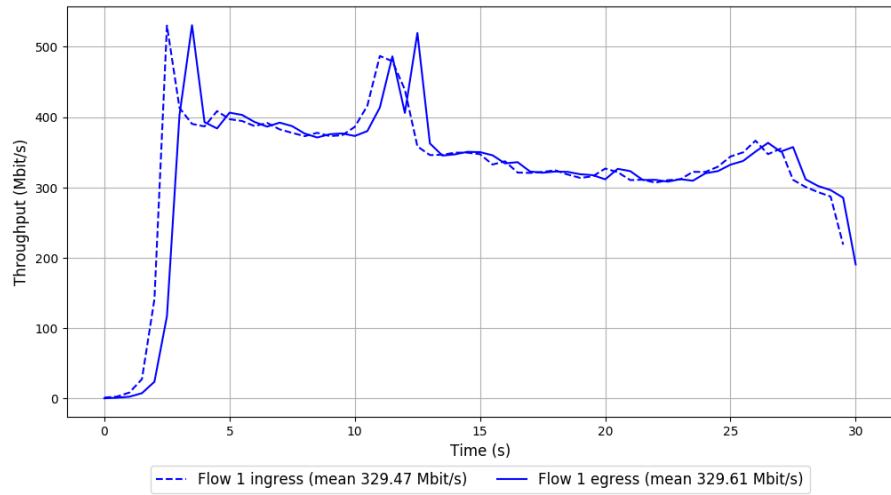


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-27 17:26:03
End at: 2019-03-27 17:26:33
Local clock offset: -0.061 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2019-03-27 20:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 329.61 Mbit/s
95th percentile per-packet one-way delay: 82.476 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 329.61 Mbit/s
95th percentile per-packet one-way delay: 82.476 ms
Loss rate: 0.28%
```

Run 3: Report of PCC-Vivace — Data Link

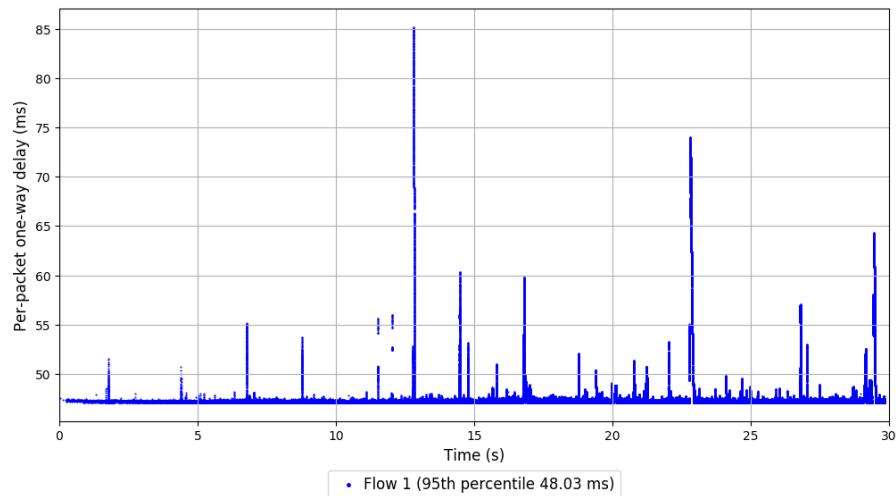
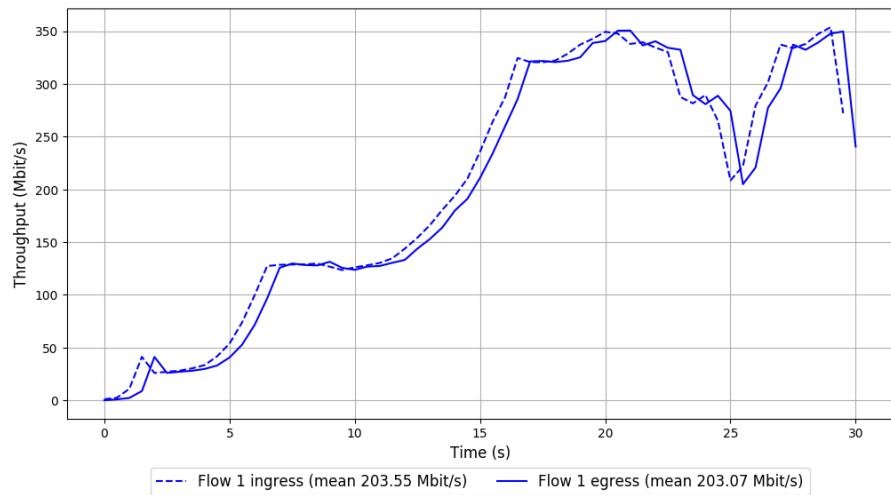


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-27 17:56:31
End at: 2019-03-27 17:57:01
Local clock offset: -0.122 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-03-27 20:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.07 Mbit/s
95th percentile per-packet one-way delay: 48.027 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 203.07 Mbit/s
95th percentile per-packet one-way delay: 48.027 ms
Loss rate: 0.55%
```

Run 4: Report of PCC-Vivace — Data Link

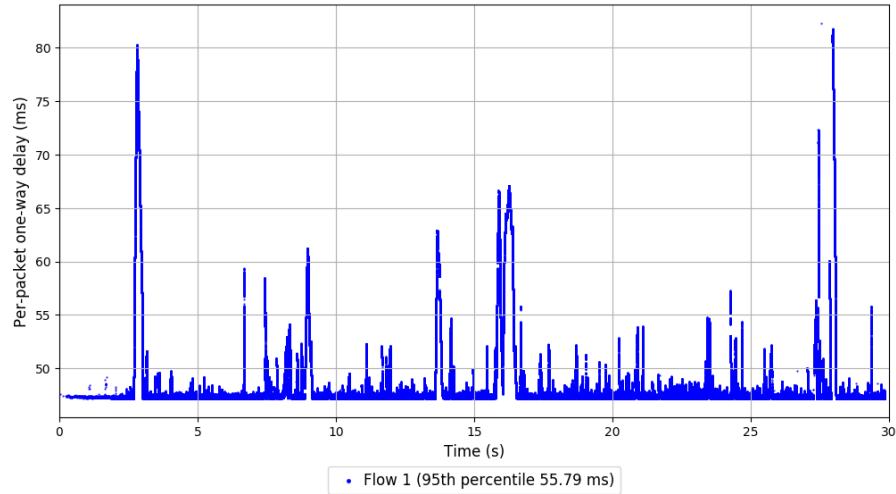
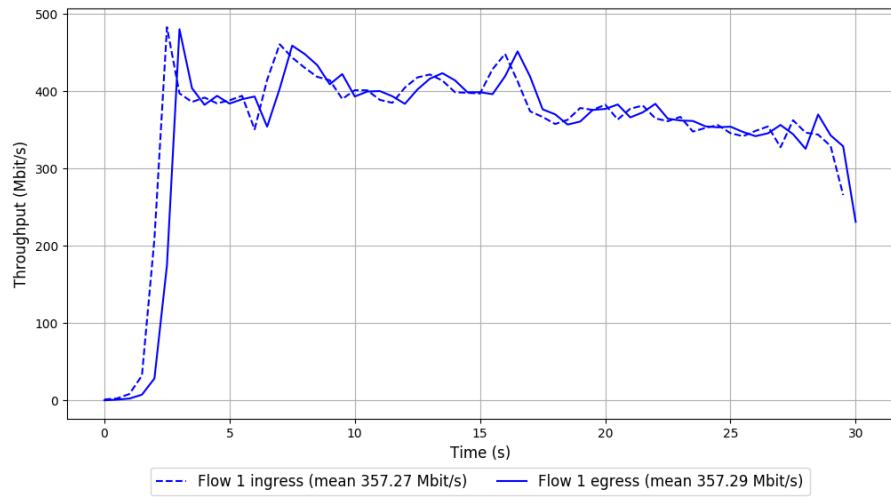


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-27 18:26:46
End at: 2019-03-27 18:27:16
Local clock offset: -0.156 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2019-03-27 20:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 357.29 Mbit/s
95th percentile per-packet one-way delay: 55.786 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 357.29 Mbit/s
95th percentile per-packet one-way delay: 55.786 ms
Loss rate: 0.31%
```

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

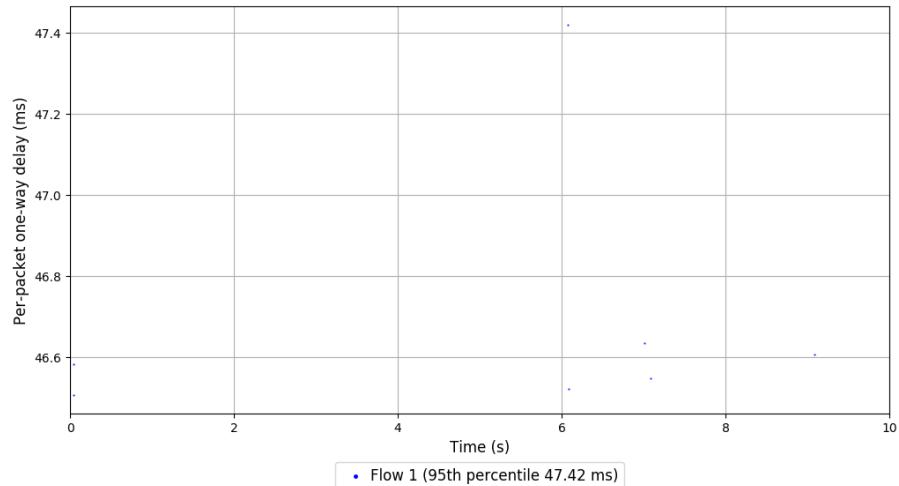
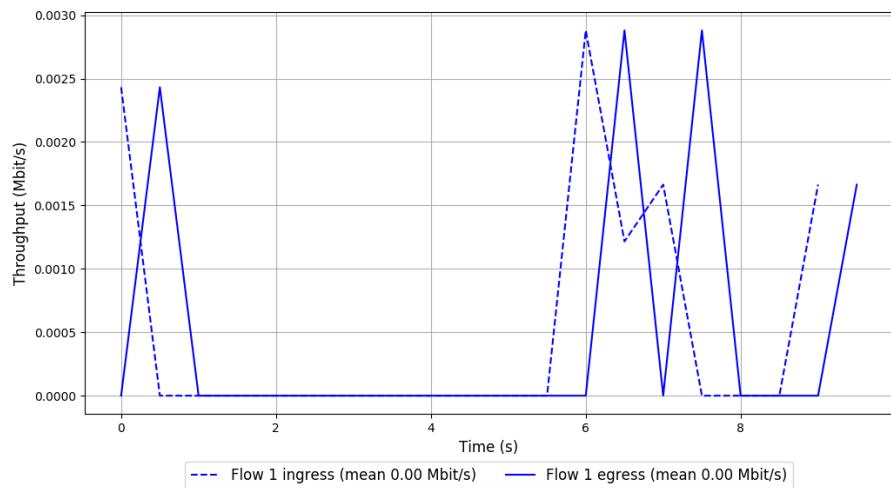
Start at: 2019-03-27 16:26:38

End at: 2019-03-27 16:27:08

Local clock offset: -0.012 ms

Remote clock offset: -0.087 ms

Run 1: Report of WebRTC media — Data Link

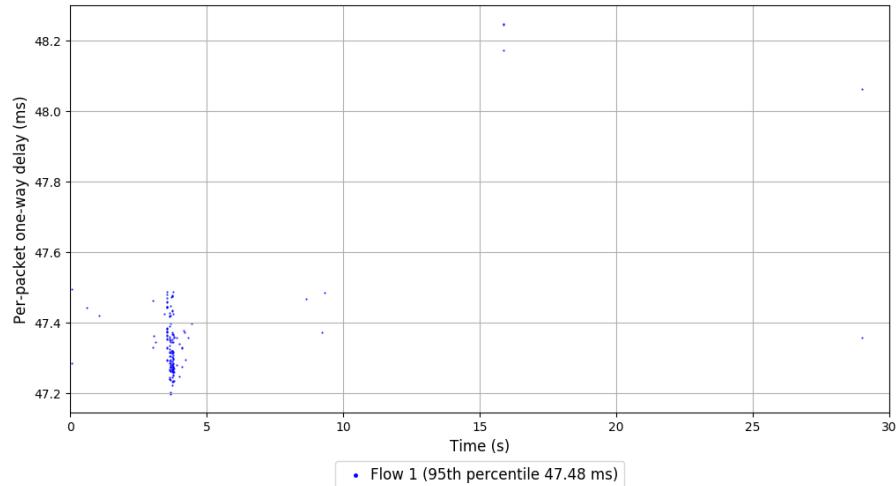
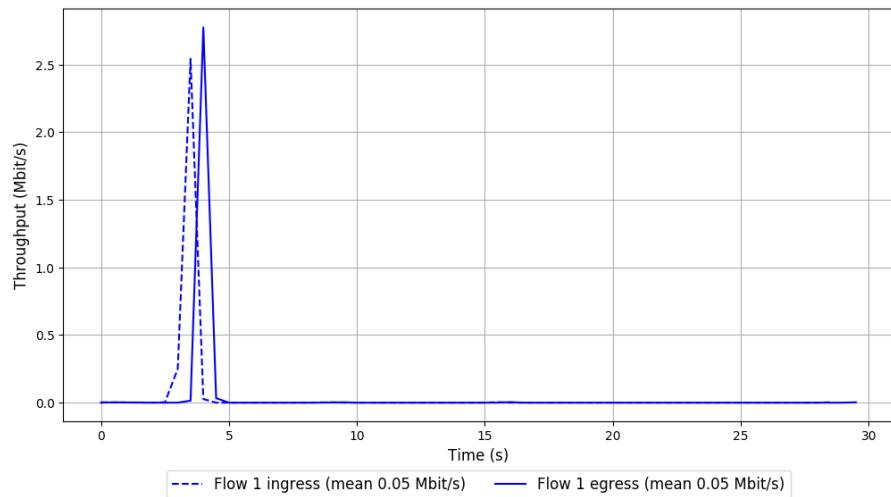


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-27 16:57:15
End at: 2019-03-27 16:57:45
Local clock offset: -0.109 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-03-27 20:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.481 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.481 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

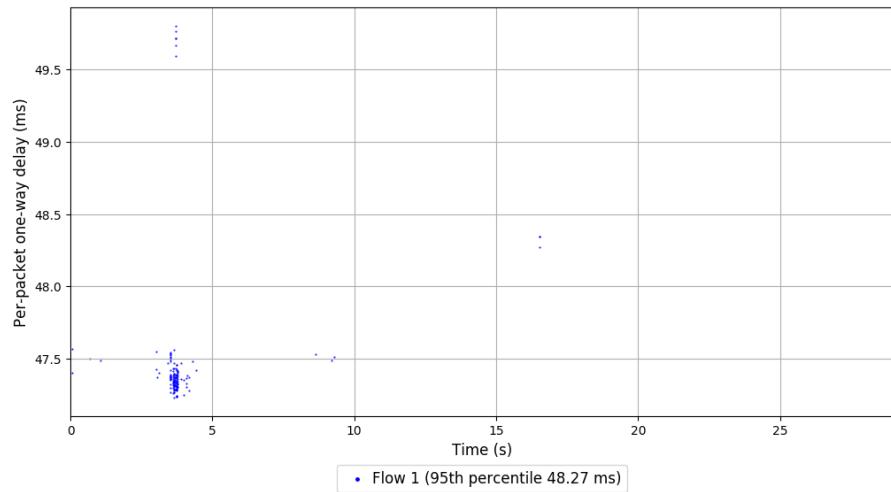
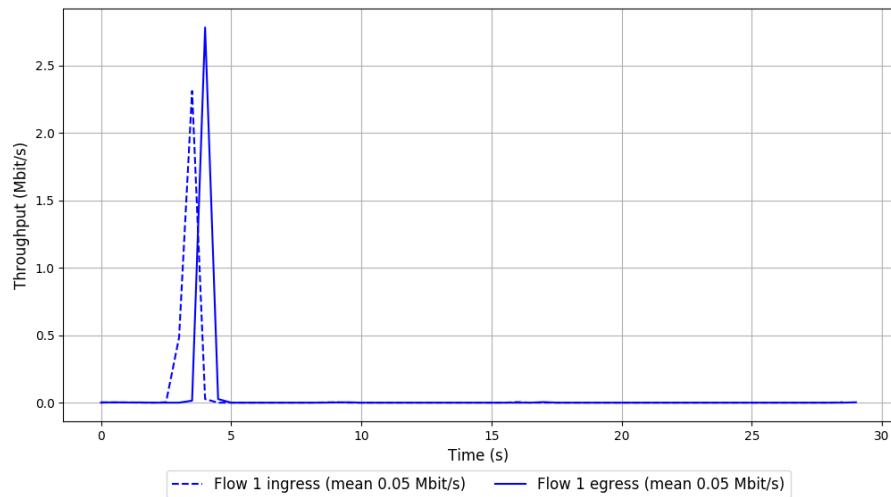


Run 3: Statistics of WebRTC media

```
Start at: 2019-03-27 17:27:32
End at: 2019-03-27 17:28:02
Local clock offset: -0.082 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-03-27 20:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 48.271 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 48.271 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

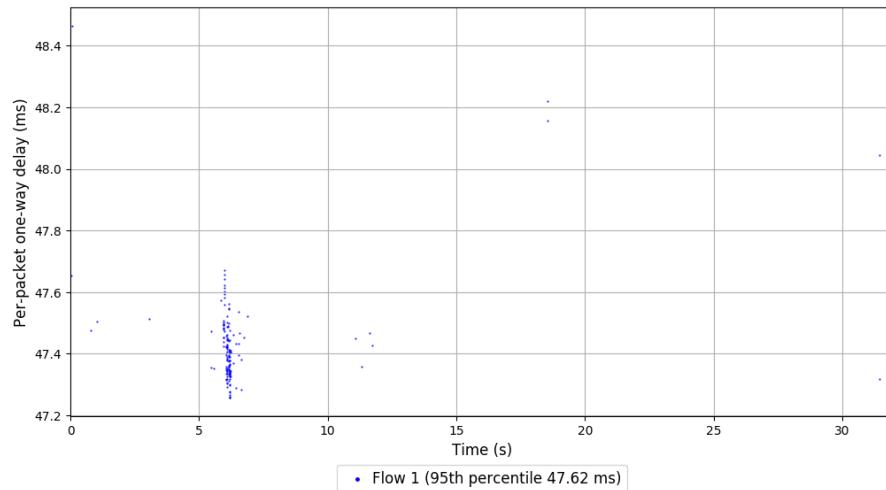
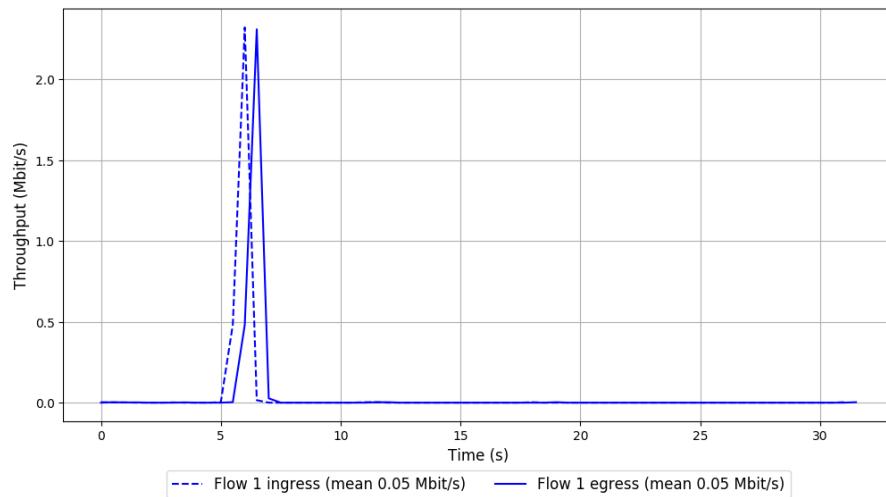


Run 4: Statistics of WebRTC media

```
Start at: 2019-03-27 17:57:52
End at: 2019-03-27 17:58:22
Local clock offset: -0.101 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-03-27 20:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.622 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.622 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-03-27 18:28:22
End at: 2019-03-27 18:28:52
Local clock offset: -0.142 ms
Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2019-03-27 20:28:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.533 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.533 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

