

Pantheon Report

Generated at 2019-07-12 13:52:21 (UTC).
Data path: GCE Tokyo on `ens4` (*remote*) → GCE Iowa on `ens4` (*local*).
Repeated the test of 24 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:

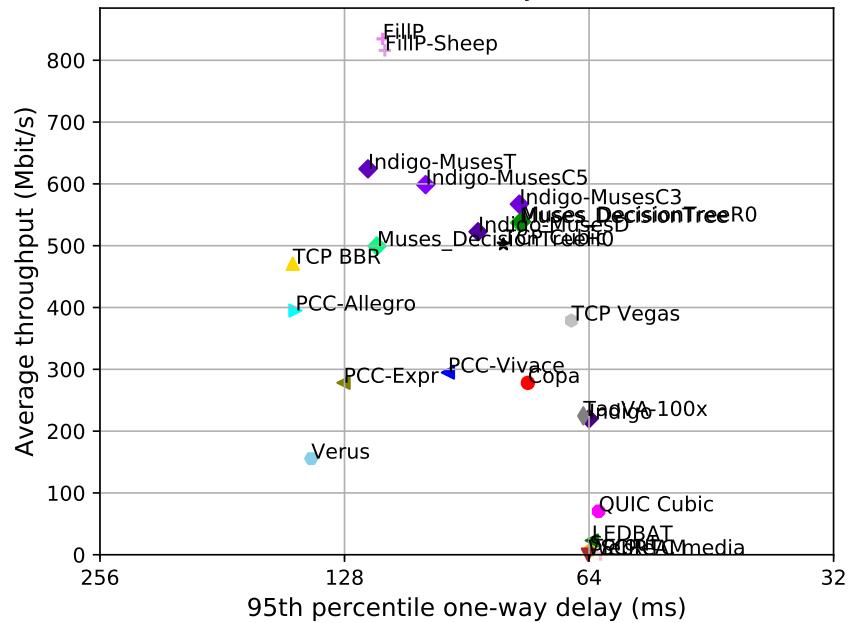
```
Linux 4.15.0-1034-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

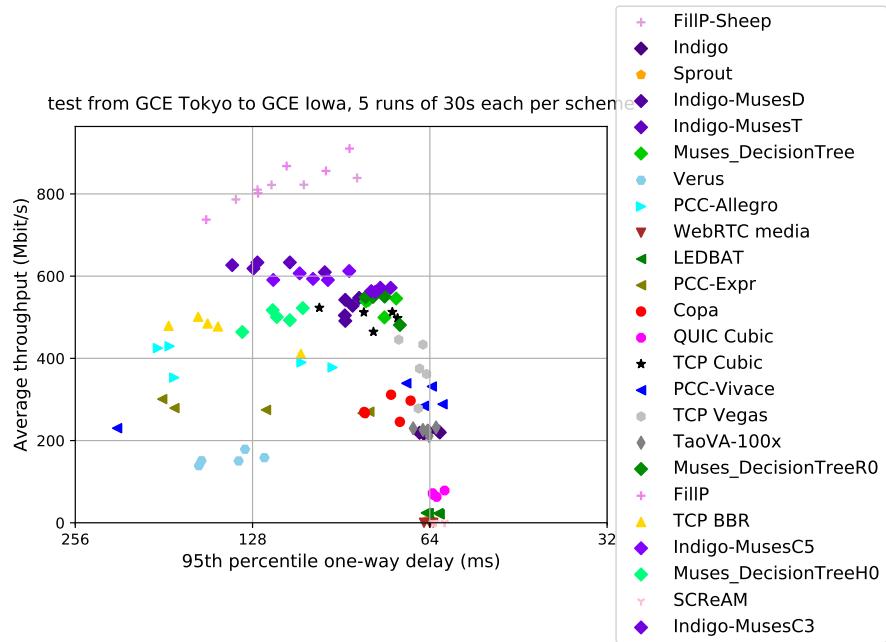
Git summary:

```
branch: muses @ 2076e1149a241f3edb4365d686df32342bf9561f
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 8bb93ffff2b107204a92d8b72449fc0c55e15f00
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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





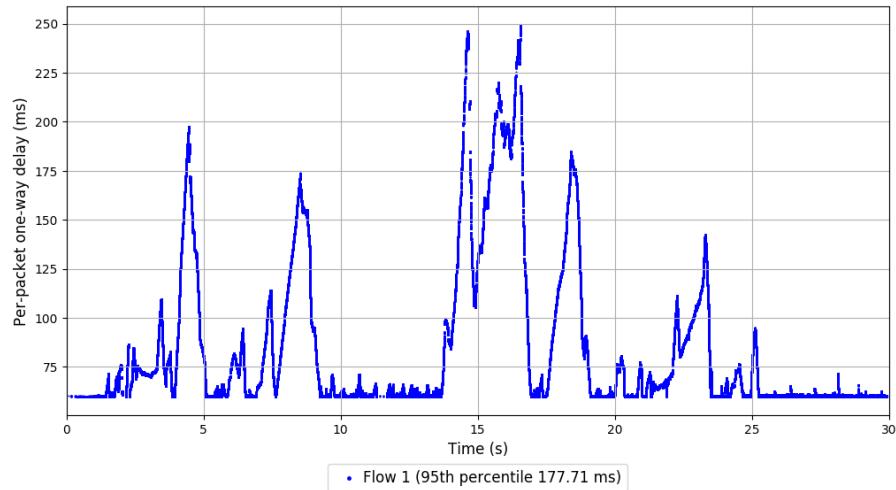
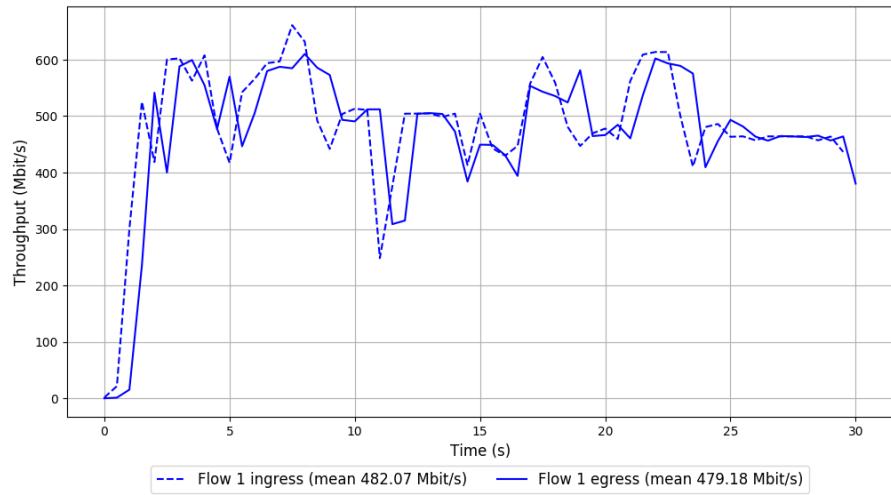
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	470.83	148.22	0.74
Copa	5	278.12	76.12	0.38
TCP Cubic	5	502.02	81.58	0.38
FillP	5	834.62	114.88	1.56
FillP-Sheep	5	816.01	114.16	0.99
Indigo	5	220.08	63.99	0.45
Indigo-MusesC3	4	567.21	77.98	0.44
Indigo-MusesC5	5	598.80	101.72	0.48
Indigo-MusesD	5	522.61	87.66	0.40
Indigo-MusesT	5	624.31	119.77	0.55
LEDBAT	5	23.03	63.51	0.75
Muses_DecisionTree	5	537.24	77.91	0.54
Muses_DecisionTreeH0	5	499.41	116.74	0.94
Muses_DecisionTreeR0	5	539.10	77.51	0.59
PCC-Allegro	5	395.09	147.10	2.06
PCC-Expr	5	278.25	128.36	2.77
QUIC Cubic	4	70.40	62.29	0.62
SCReAM	5	0.22	61.95	0.38
Sprout	5	6.91	63.89	0.49
TaoVA-100x	5	224.63	65.05	0.43
TCP Vegas	5	378.85	67.29	0.38
Verus	5	155.54	140.66	0.31
PCC-Vivace	5	294.78	95.49	0.91
WebRTC media	3	0.05	64.21	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-07-12 09:13:04
End at: 2019-07-12 09:13:34
Local clock offset: 0.026 ms
Remote clock offset: -0.239 ms

# Below is generated by plot.py at 2019-07-12 12:06:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 479.18 Mbit/s
95th percentile per-packet one-way delay: 177.712 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 479.18 Mbit/s
95th percentile per-packet one-way delay: 177.712 ms
Loss rate: 1.00%
```

Run 1: Report of TCP BBR — Data Link

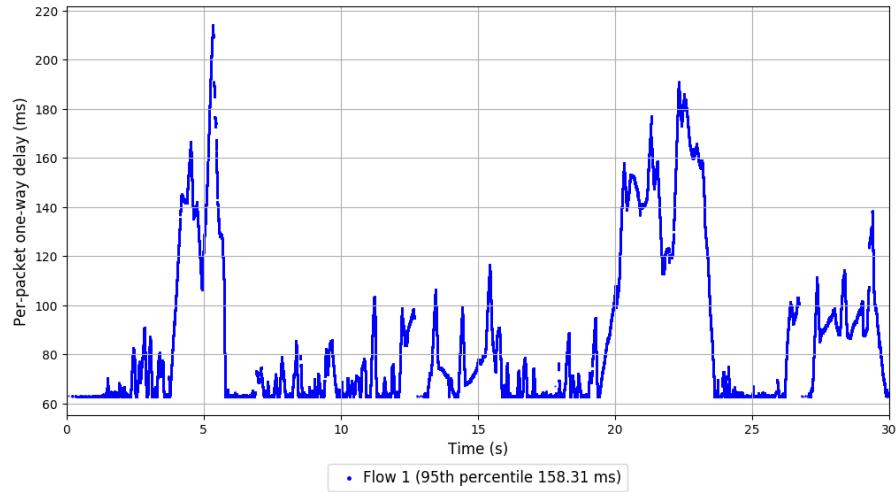
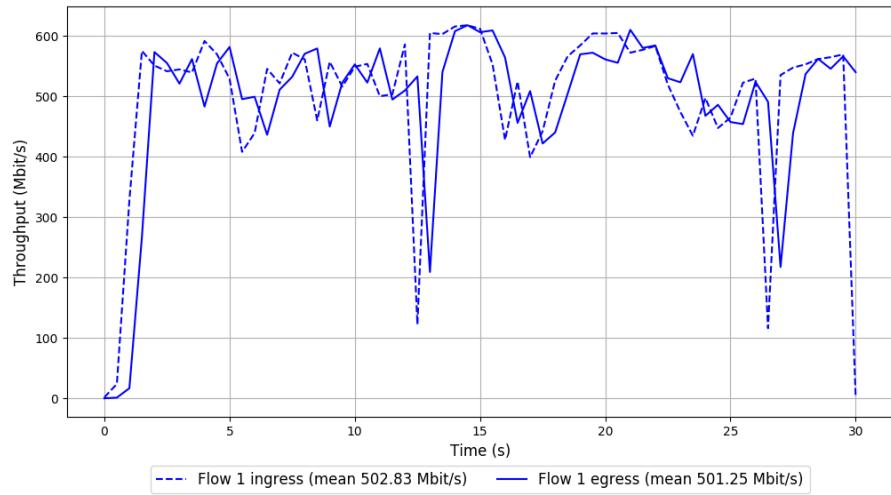


Run 2: Statistics of TCP BBR

```
Start at: 2019-07-12 09:48:19
End at: 2019-07-12 09:48:49
Local clock offset: 0.003 ms
Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2019-07-12 12:06:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 501.25 Mbit/s
95th percentile per-packet one-way delay: 158.314 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 501.25 Mbit/s
95th percentile per-packet one-way delay: 158.314 ms
Loss rate: 0.72%
```

Run 2: Report of TCP BBR — Data Link

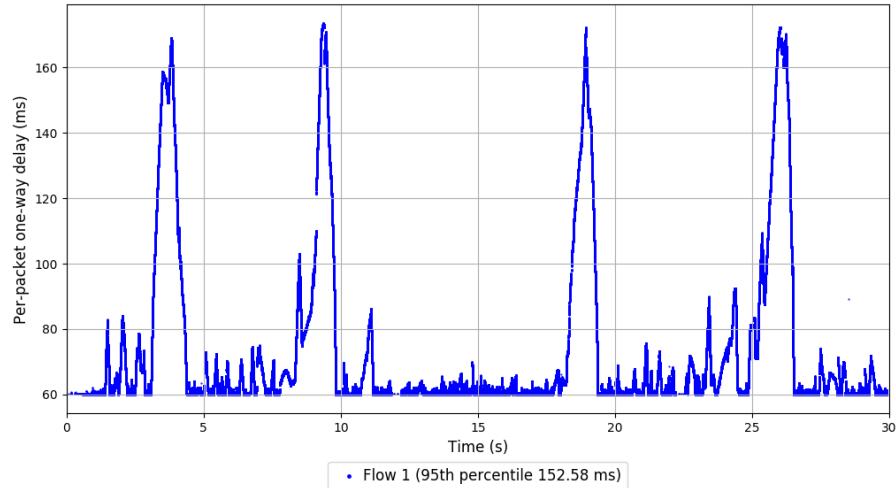
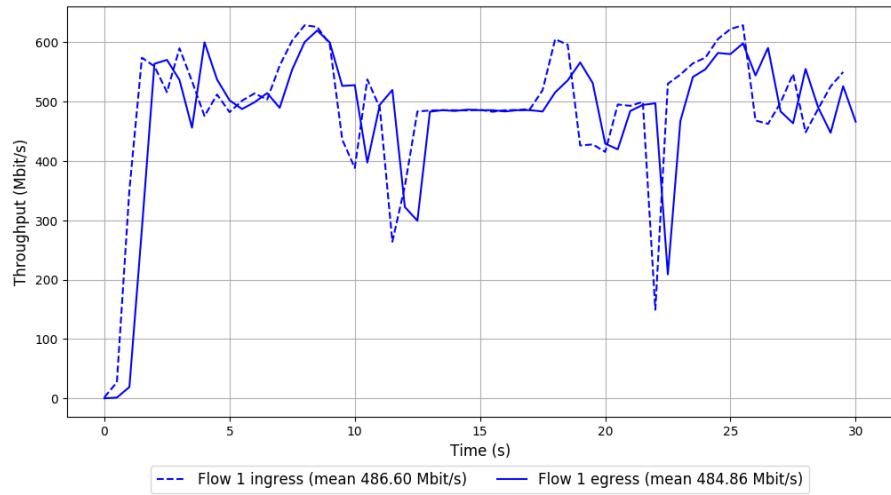


Run 3: Statistics of TCP BBR

```
Start at: 2019-07-12 10:23:24
End at: 2019-07-12 10:23:54
Local clock offset: -0.096 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-07-12 12:06:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 484.86 Mbit/s
95th percentile per-packet one-way delay: 152.577 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 484.86 Mbit/s
95th percentile per-packet one-way delay: 152.577 ms
Loss rate: 0.76%
```

Run 3: Report of TCP BBR — Data Link

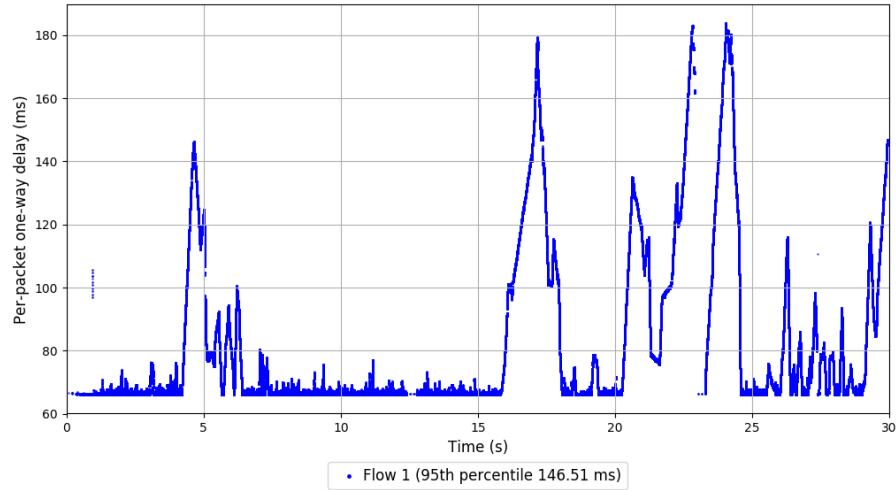
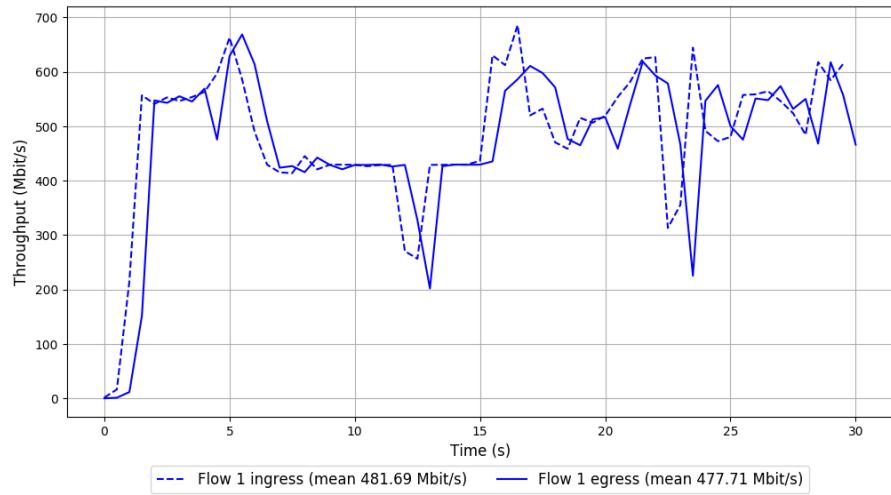


Run 4: Statistics of TCP BBR

```
Start at: 2019-07-12 10:58:41
End at: 2019-07-12 10:59:11
Local clock offset: 0.003 ms
Remote clock offset: -0.819 ms

# Below is generated by plot.py at 2019-07-12 12:06:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 477.71 Mbit/s
95th percentile per-packet one-way delay: 146.511 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 477.71 Mbit/s
95th percentile per-packet one-way delay: 146.511 ms
Loss rate: 1.24%
```

Run 4: Report of TCP BBR — Data Link

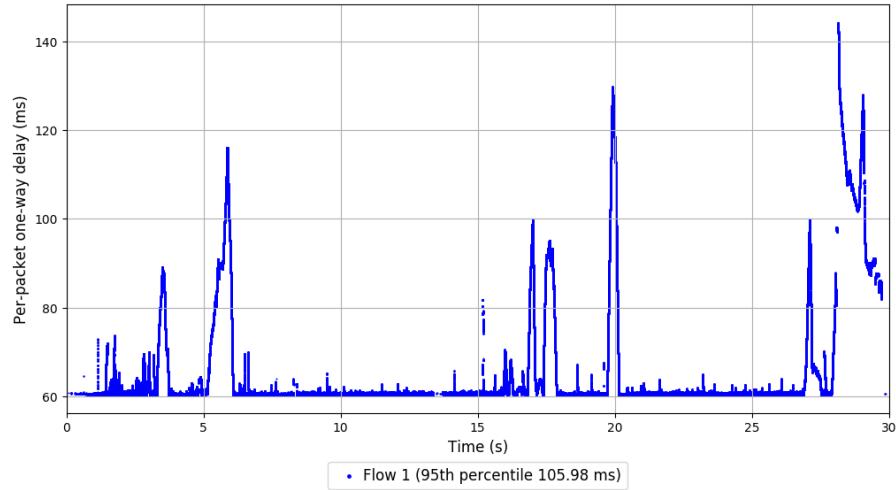
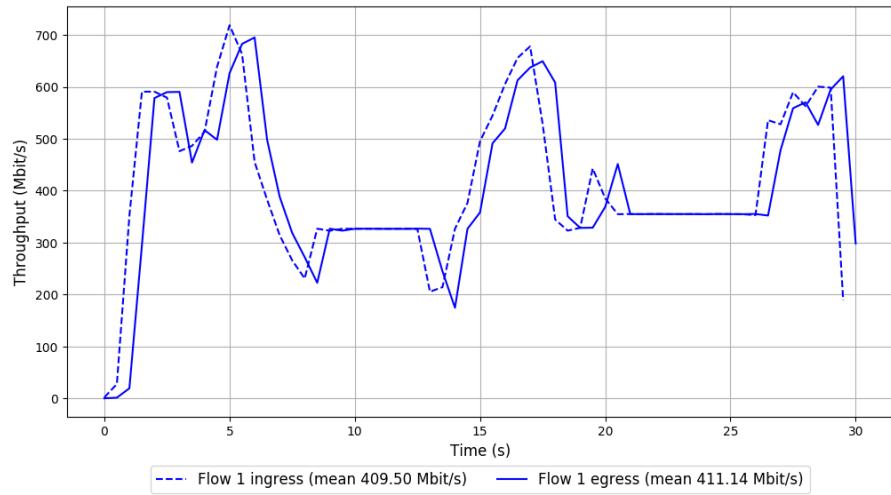


Run 5: Statistics of TCP BBR

```
Start at: 2019-07-12 11:33:56
End at: 2019-07-12 11:34:26
Local clock offset: -0.053 ms
Remote clock offset: -0.802 ms

# Below is generated by plot.py at 2019-07-12 12:06:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 411.14 Mbit/s
95th percentile per-packet one-way delay: 105.977 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 411.14 Mbit/s
95th percentile per-packet one-way delay: 105.977 ms
Loss rate: 0.00%
```

Run 5: Report of TCP BBR — Data Link

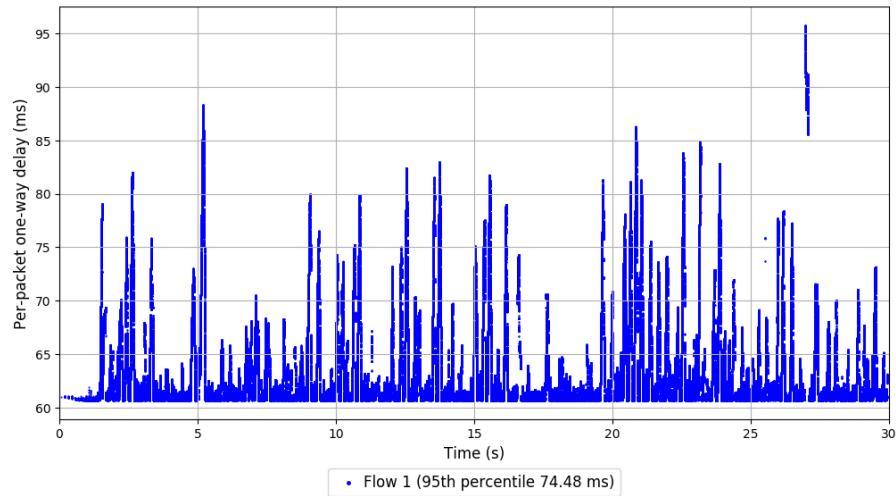
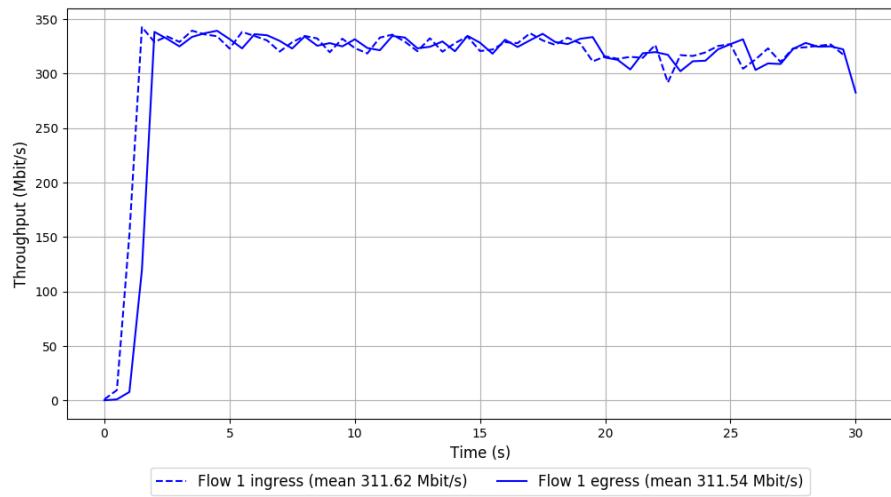


Run 1: Statistics of Copa

```
Start at: 2019-07-12 09:07:20
End at: 2019-07-12 09:07:50
Local clock offset: 0.008 ms
Remote clock offset: -0.939 ms

# Below is generated by plot.py at 2019-07-12 12:07:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 311.54 Mbit/s
95th percentile per-packet one-way delay: 74.476 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 311.54 Mbit/s
95th percentile per-packet one-way delay: 74.476 ms
Loss rate: 0.42%
```

Run 1: Report of Copa — Data Link

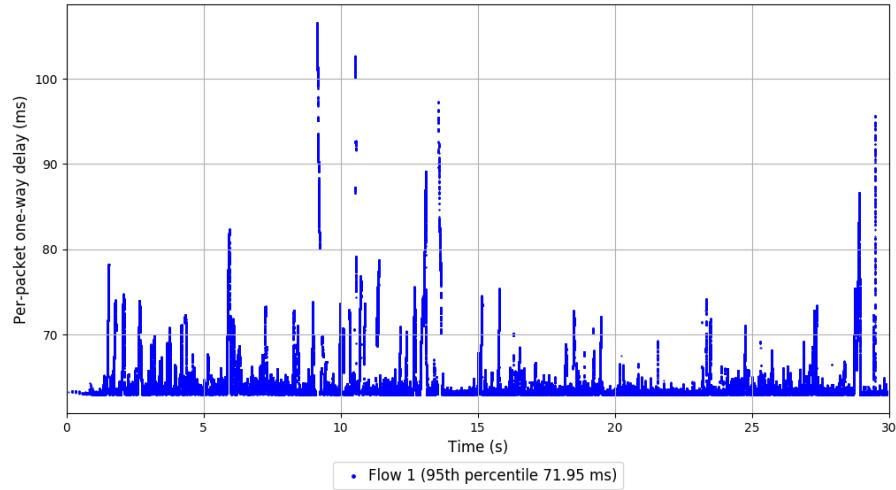
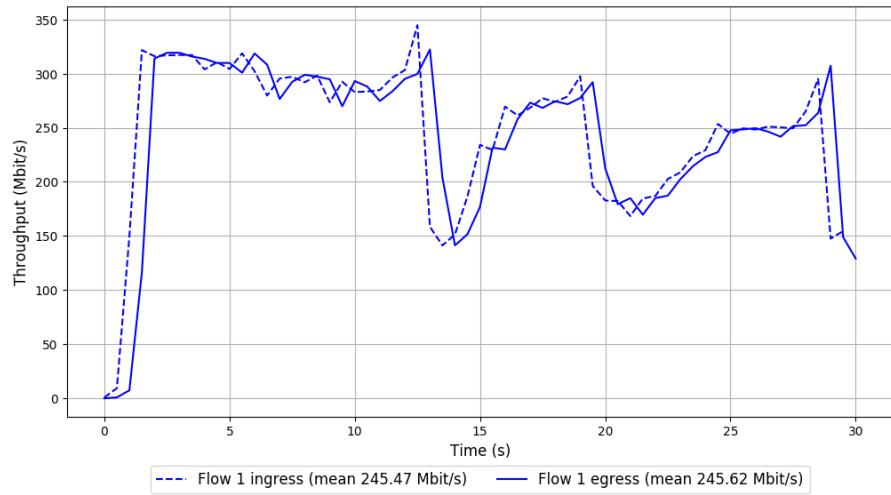


Run 2: Statistics of Copa

```
Start at: 2019-07-12 09:42:32
End at: 2019-07-12 09:43:02
Local clock offset: 0.008 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-07-12 12:07:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 245.62 Mbit/s
95th percentile per-packet one-way delay: 71.948 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 245.62 Mbit/s
95th percentile per-packet one-way delay: 71.948 ms
Loss rate: 0.35%
```

Run 2: Report of Copa — Data Link

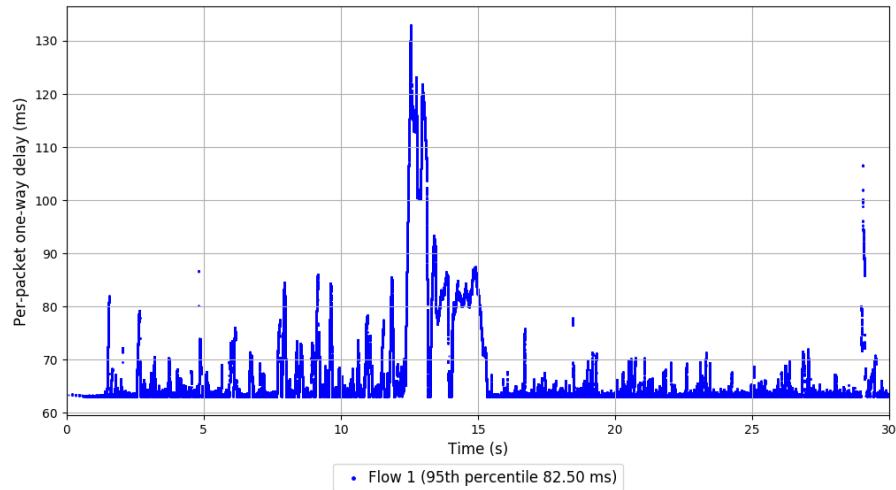
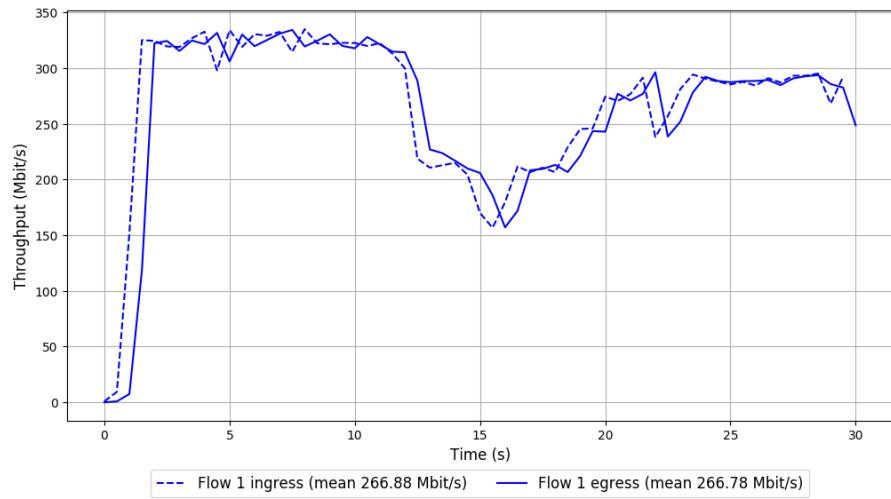


Run 3: Statistics of Copa

```
Start at: 2019-07-12 10:17:37
End at: 2019-07-12 10:18:07
Local clock offset: -0.07 ms
Remote clock offset: -0.319 ms

# Below is generated by plot.py at 2019-07-12 12:07:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 266.78 Mbit/s
95th percentile per-packet one-way delay: 82.503 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 266.78 Mbit/s
95th percentile per-packet one-way delay: 82.503 ms
Loss rate: 0.45%
```

Run 3: Report of Copa — Data Link

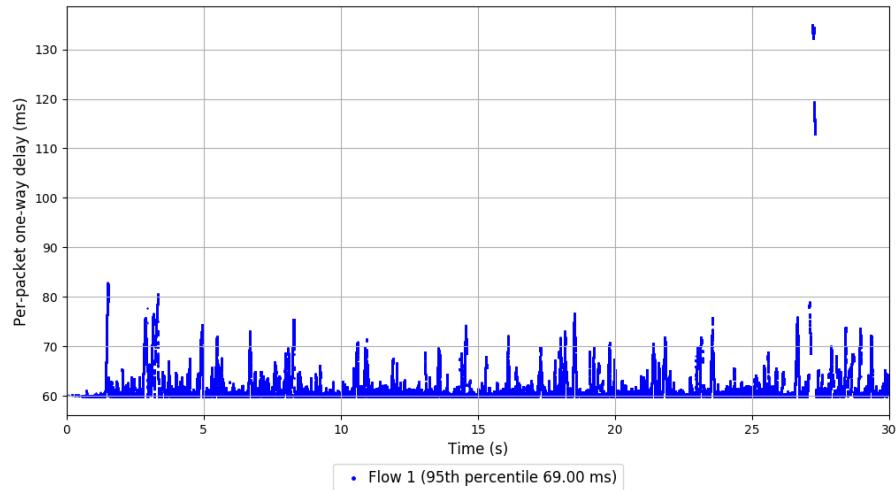
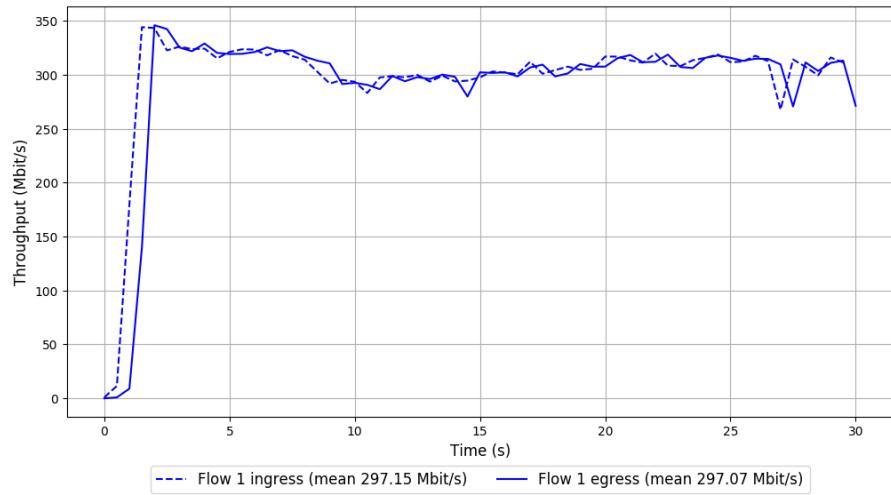


Run 4: Statistics of Copa

```
Start at: 2019-07-12 10:52:55
End at: 2019-07-12 10:53:25
Local clock offset: -0.041 ms
Remote clock offset: -0.243 ms

# Below is generated by plot.py at 2019-07-12 12:14:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.07 Mbit/s
95th percentile per-packet one-way delay: 68.995 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 297.07 Mbit/s
95th percentile per-packet one-way delay: 68.995 ms
Loss rate: 0.43%
```

Run 4: Report of Copa — Data Link

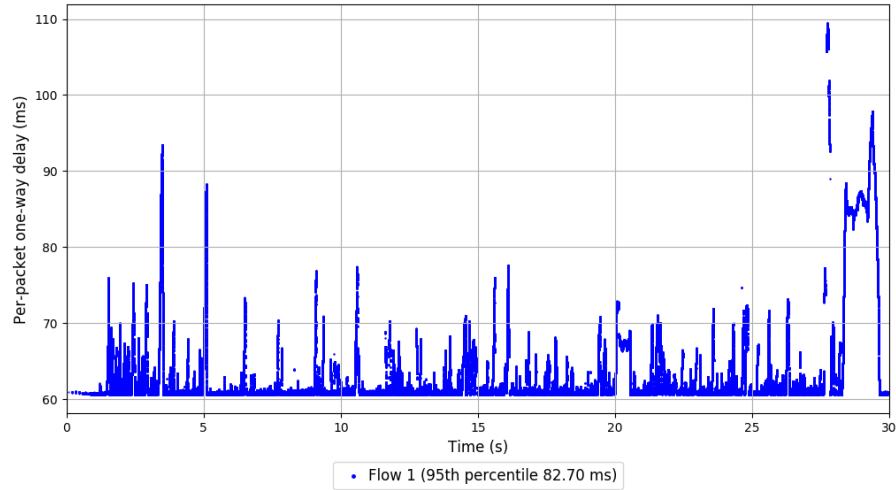
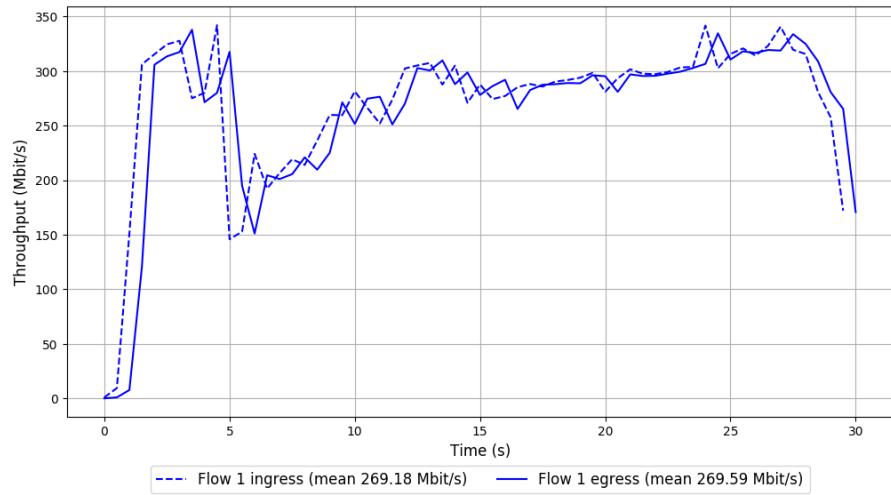


Run 5: Statistics of Copa

```
Start at: 2019-07-12 11:28:11
End at: 2019-07-12 11:28:41
Local clock offset: -0.066 ms
Remote clock offset: -0.86 ms

# Below is generated by plot.py at 2019-07-12 12:14:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 269.59 Mbit/s
95th percentile per-packet one-way delay: 82.703 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 269.59 Mbit/s
95th percentile per-packet one-way delay: 82.703 ms
Loss rate: 0.26%
```

Run 5: Report of Copa — Data Link

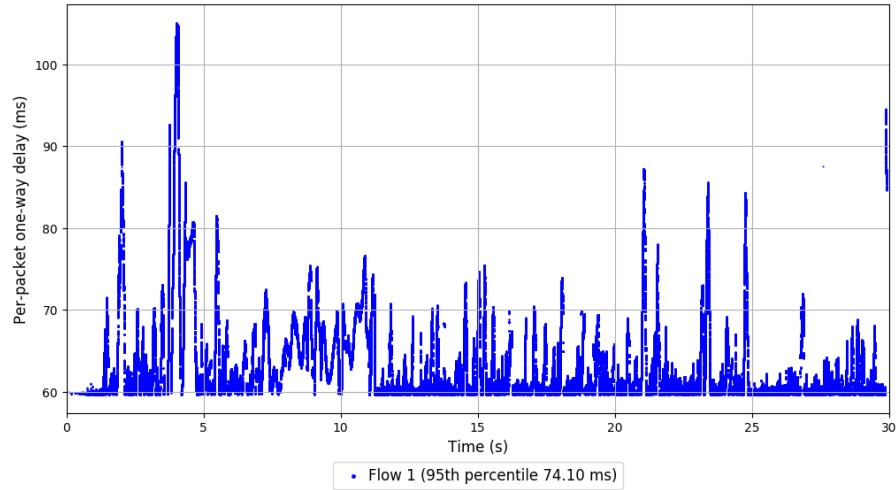
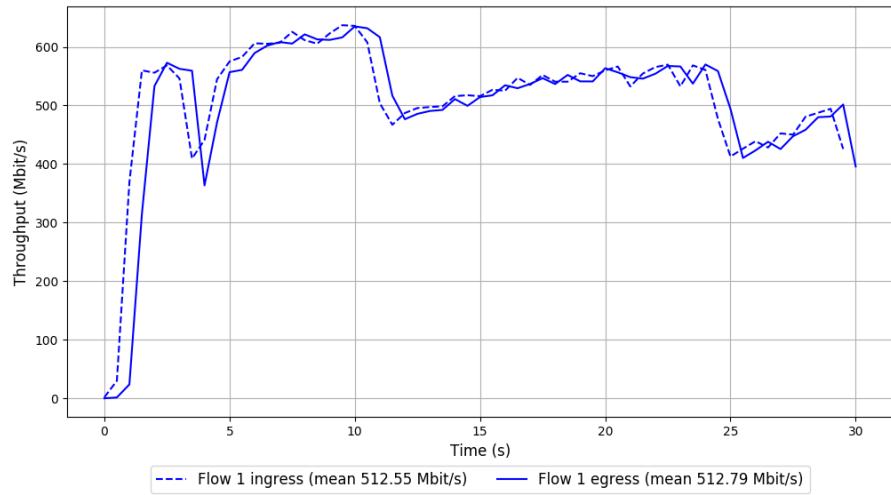


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-07-12 09:16:14
End at: 2019-07-12 09:16:44
Local clock offset: 0.016 ms
Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2019-07-12 12:14:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 512.79 Mbit/s
95th percentile per-packet one-way delay: 74.099 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 512.79 Mbit/s
95th percentile per-packet one-way delay: 74.099 ms
Loss rate: 0.28%
```

Run 1: Report of TCP Cubic — Data Link

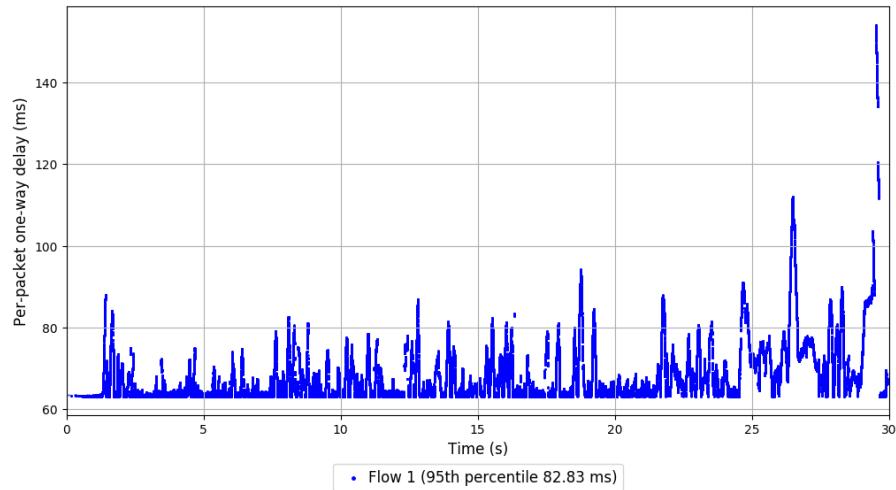
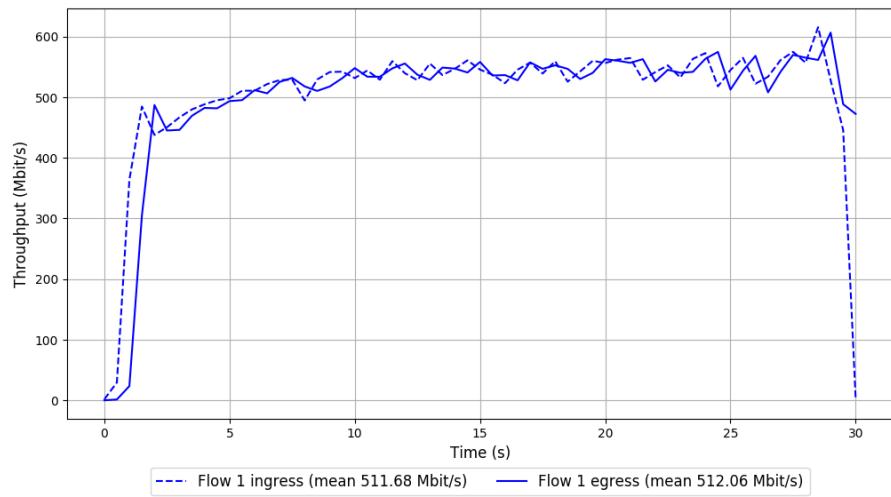


Run 2: Statistics of TCP Cubic

```
Start at: 2019-07-12 09:51:30
End at: 2019-07-12 09:52:00
Local clock offset: 0.001 ms
Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2019-07-12 12:14:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 512.06 Mbit/s
95th percentile per-packet one-way delay: 82.832 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 512.06 Mbit/s
95th percentile per-packet one-way delay: 82.832 ms
Loss rate: 0.34%
```

Run 2: Report of TCP Cubic — Data Link

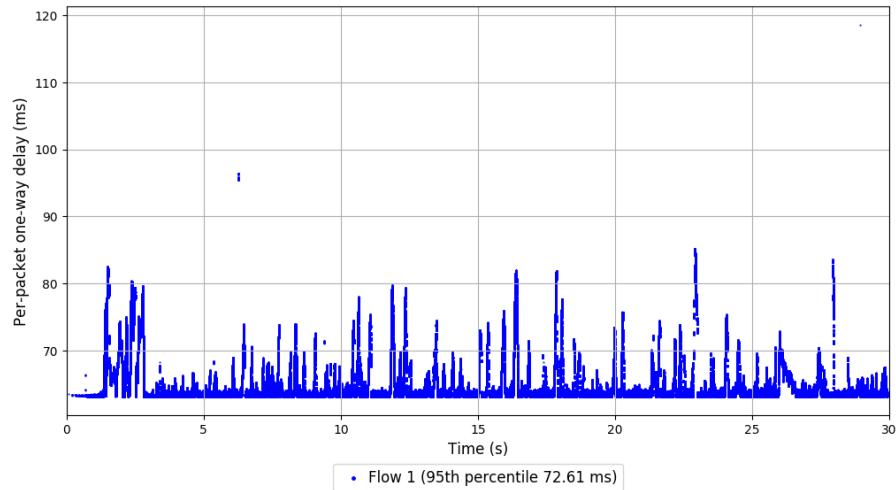
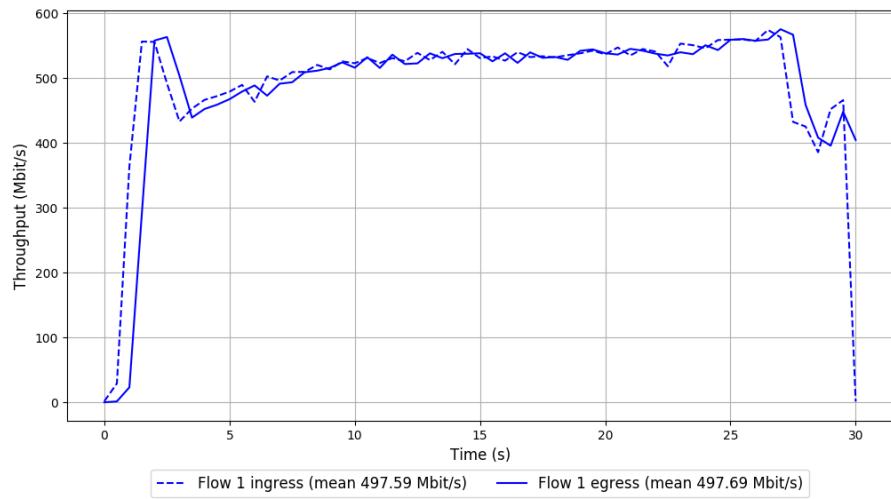


Run 3: Statistics of TCP Cubic

```
Start at: 2019-07-12 10:26:35
End at: 2019-07-12 10:27:05
Local clock offset: -0.083 ms
Remote clock offset: -0.358 ms

# Below is generated by plot.py at 2019-07-12 12:14:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 497.69 Mbit/s
95th percentile per-packet one-way delay: 72.605 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 497.69 Mbit/s
95th percentile per-packet one-way delay: 72.605 ms
Loss rate: 0.39%
```

Run 3: Report of TCP Cubic — Data Link

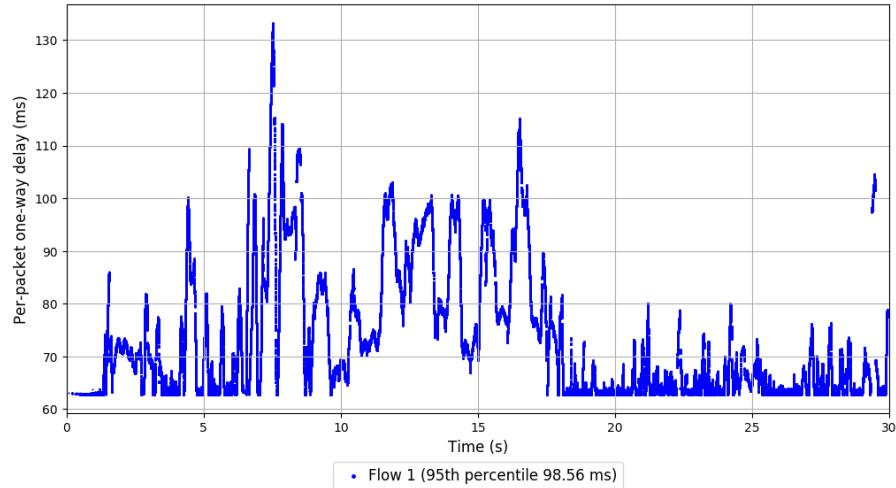
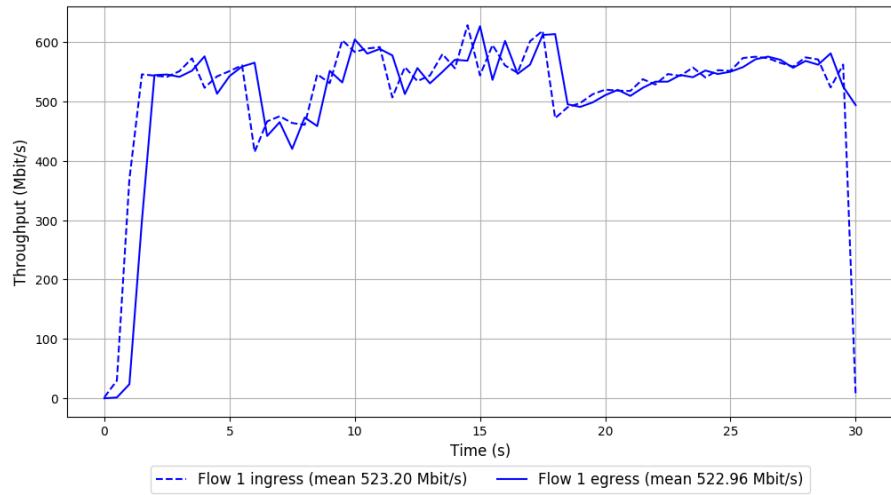


Run 4: Statistics of TCP Cubic

```
Start at: 2019-07-12 11:01:50
End at: 2019-07-12 11:02:20
Local clock offset: -0.042 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-07-12 12:15:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 522.96 Mbit/s
95th percentile per-packet one-way delay: 98.562 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 522.96 Mbit/s
95th percentile per-packet one-way delay: 98.562 ms
Loss rate: 0.46%
```

Run 4: Report of TCP Cubic — Data Link

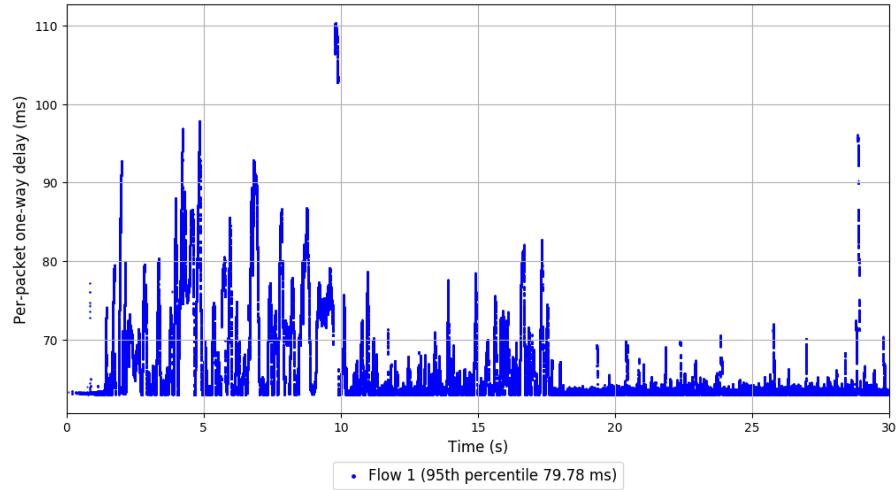
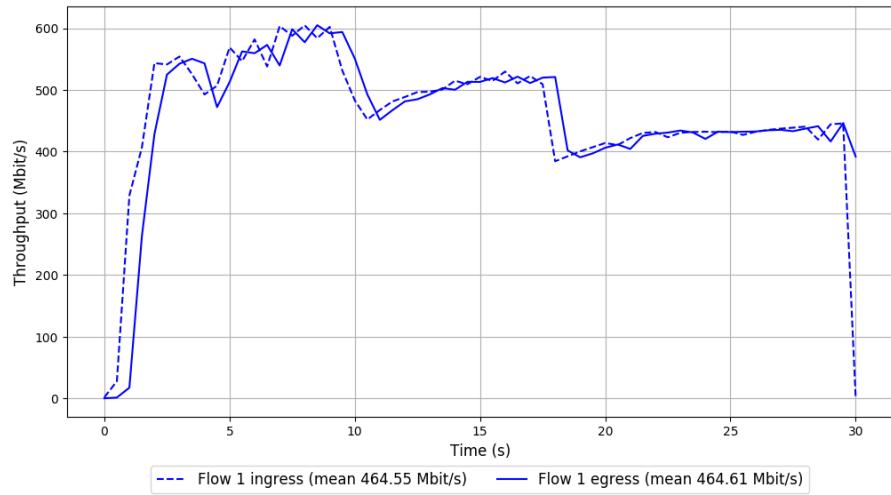


Run 5: Statistics of TCP Cubic

```
Start at: 2019-07-12 11:37:02
End at: 2019-07-12 11:37:32
Local clock offset: -0.036 ms
Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2019-07-12 12:15:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 464.61 Mbit/s
95th percentile per-packet one-way delay: 79.777 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 464.61 Mbit/s
95th percentile per-packet one-way delay: 79.777 ms
Loss rate: 0.41%
```

Run 5: Report of TCP Cubic — Data Link

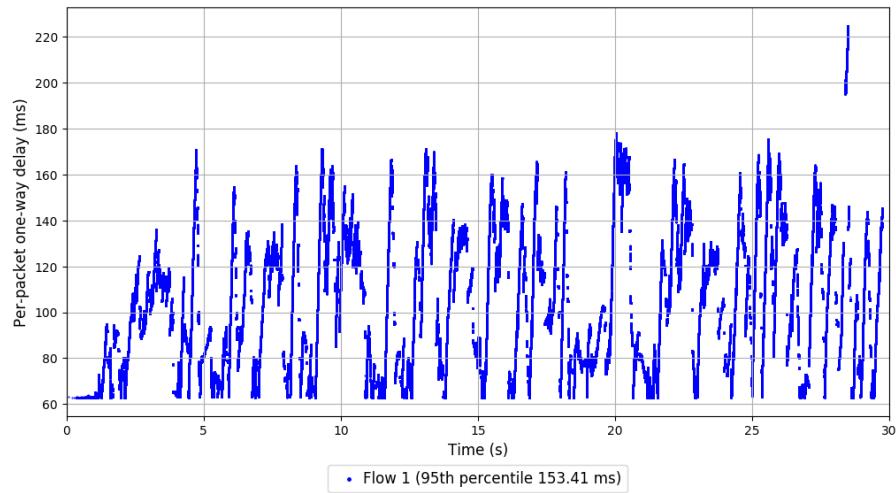
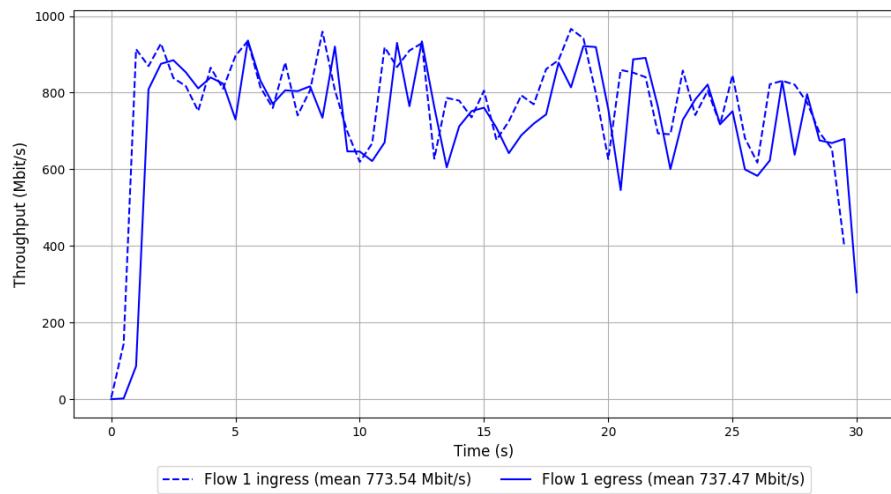


```
Run 1: Statistics of FillP

Start at: 2019-07-12 09:04:33
End at: 2019-07-12 09:05:03
Local clock offset: 0.016 ms
Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2019-07-12 12:21:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 737.47 Mbit/s
95th percentile per-packet one-way delay: 153.412 ms
Loss rate: 5.06%
-- Flow 1:
Average throughput: 737.47 Mbit/s
95th percentile per-packet one-way delay: 153.412 ms
Loss rate: 5.06%
```

Run 1: Report of FillP — Data Link

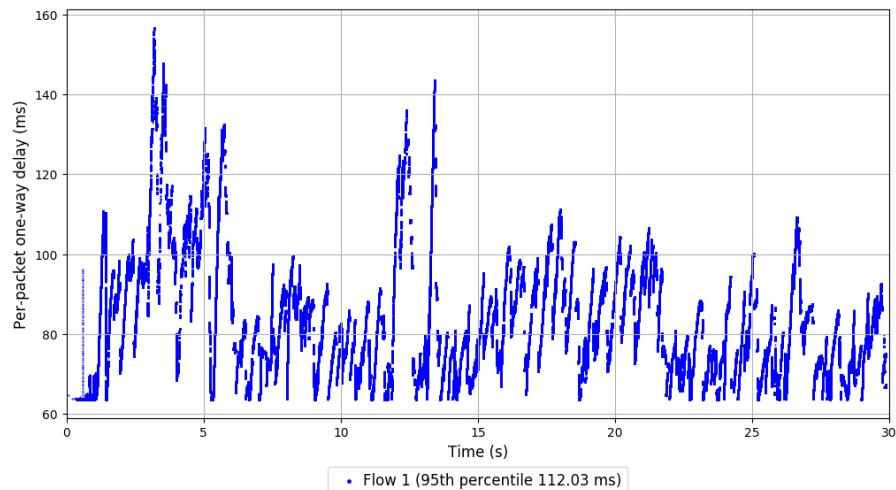
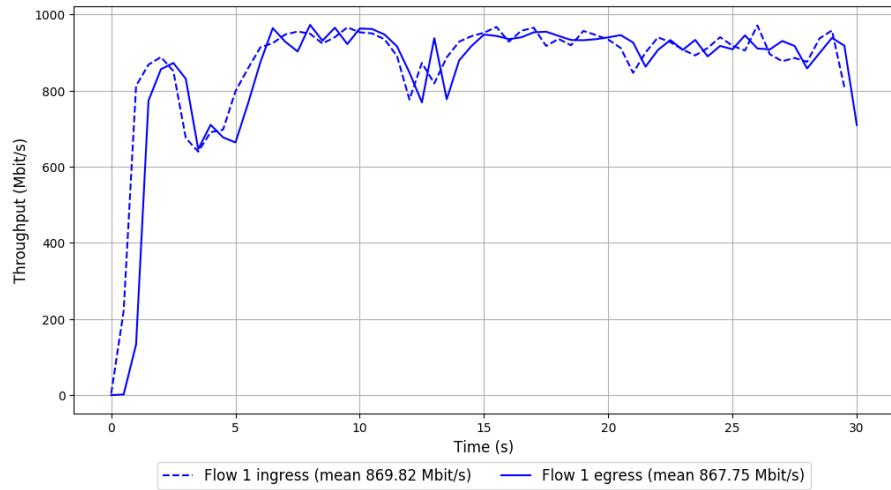


Run 2: Statistics of FillP

```
Start at: 2019-07-12 09:39:41
End at: 2019-07-12 09:40:11
Local clock offset: -0.014 ms
Remote clock offset: -0.747 ms

# Below is generated by plot.py at 2019-07-12 12:32:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 867.75 Mbit/s
95th percentile per-packet one-way delay: 112.035 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 867.75 Mbit/s
95th percentile per-packet one-way delay: 112.035 ms
Loss rate: 0.65%
```

Run 2: Report of FillP — Data Link

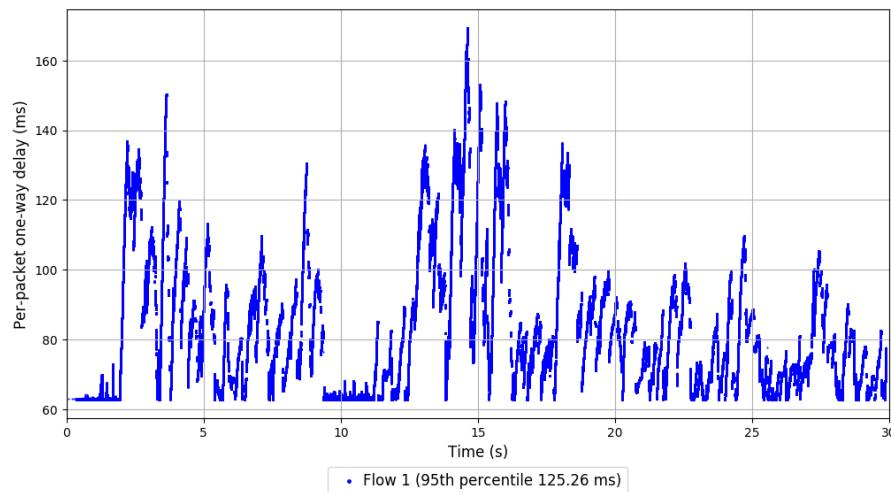
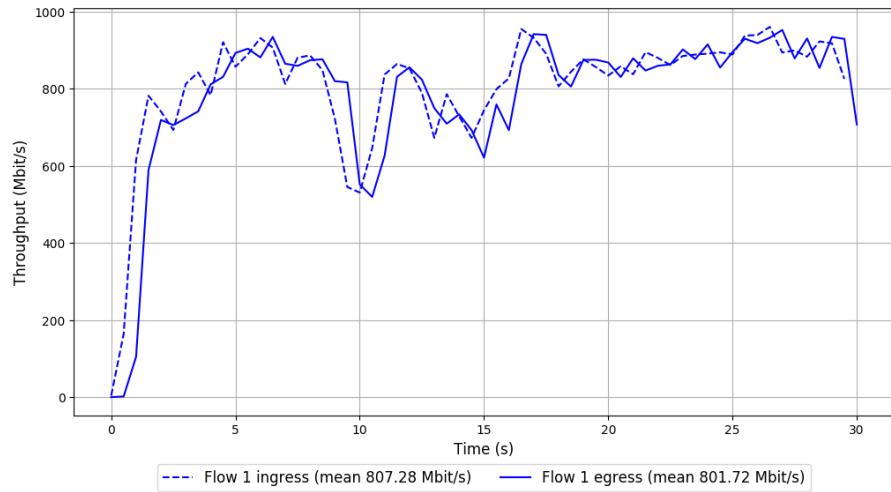


Run 3: Statistics of FillP

```
Start at: 2019-07-12 10:14:49
End at: 2019-07-12 10:15:19
Local clock offset: -0.082 ms
Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2019-07-12 12:32:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 801.72 Mbit/s
95th percentile per-packet one-way delay: 125.261 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 801.72 Mbit/s
95th percentile per-packet one-way delay: 125.261 ms
Loss rate: 1.10%
```

Run 3: Report of FillP — Data Link

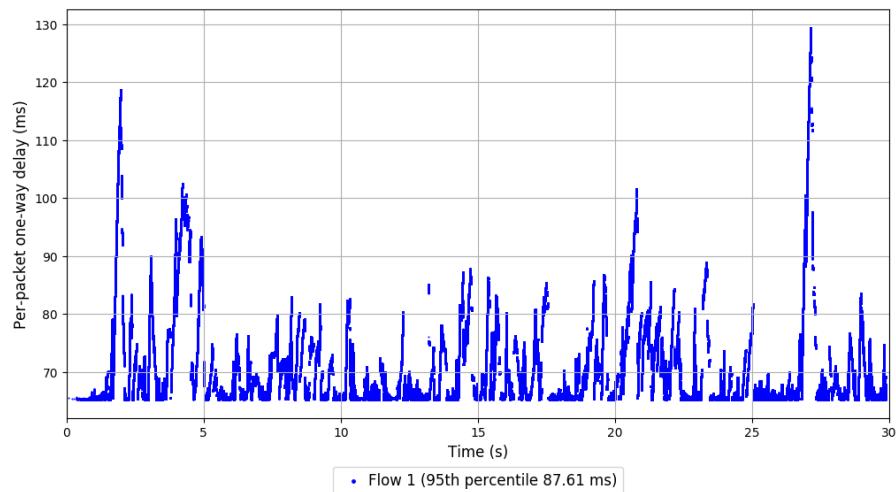
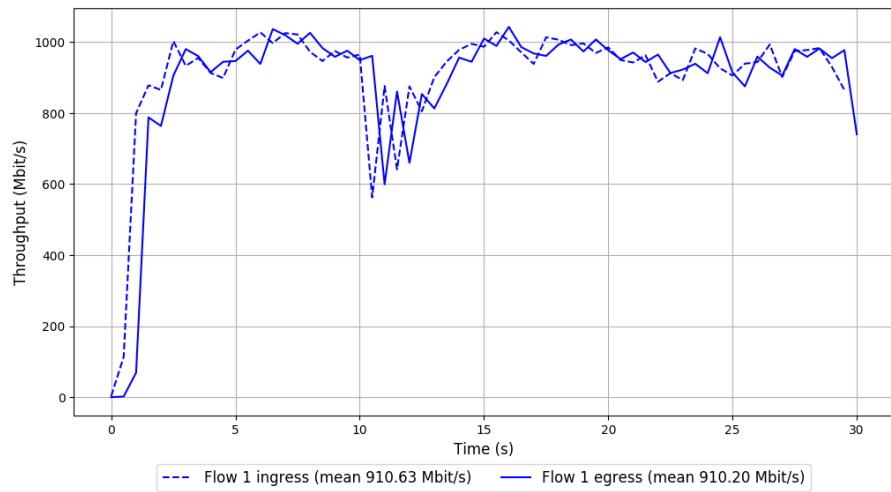


Run 4: Statistics of FillP

```
Start at: 2019-07-12 10:50:02
End at: 2019-07-12 10:50:32
Local clock offset: -0.043 ms
Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2019-07-12 12:33:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 910.20 Mbit/s
95th percentile per-packet one-way delay: 87.610 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 910.20 Mbit/s
95th percentile per-packet one-way delay: 87.610 ms
Loss rate: 0.47%
```

Run 4: Report of FillP — Data Link

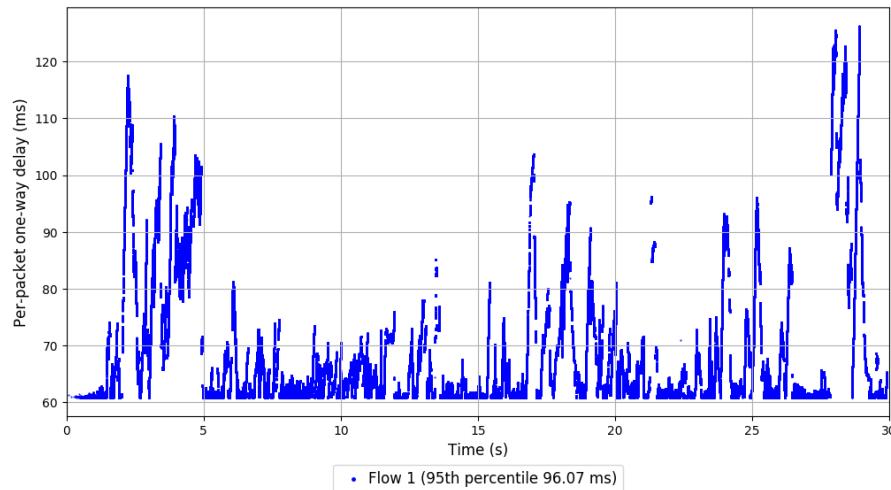
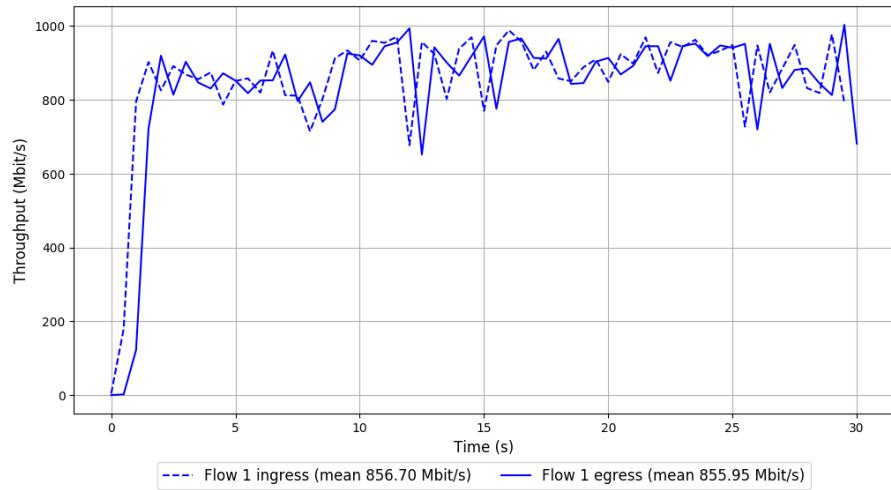


Run 5: Statistics of FillP

```
Start at: 2019-07-12 11:25:20
End at: 2019-07-12 11:25:50
Local clock offset: -0.058 ms
Remote clock offset: -0.754 ms

# Below is generated by plot.py at 2019-07-12 12:33:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 855.95 Mbit/s
95th percentile per-packet one-way delay: 96.067 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 855.95 Mbit/s
95th percentile per-packet one-way delay: 96.067 ms
Loss rate: 0.50%
```

Run 5: Report of FillP — Data Link

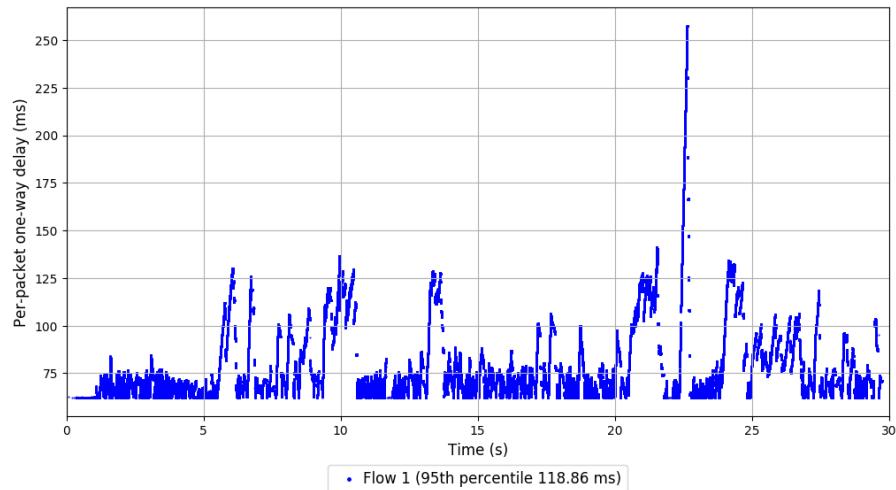
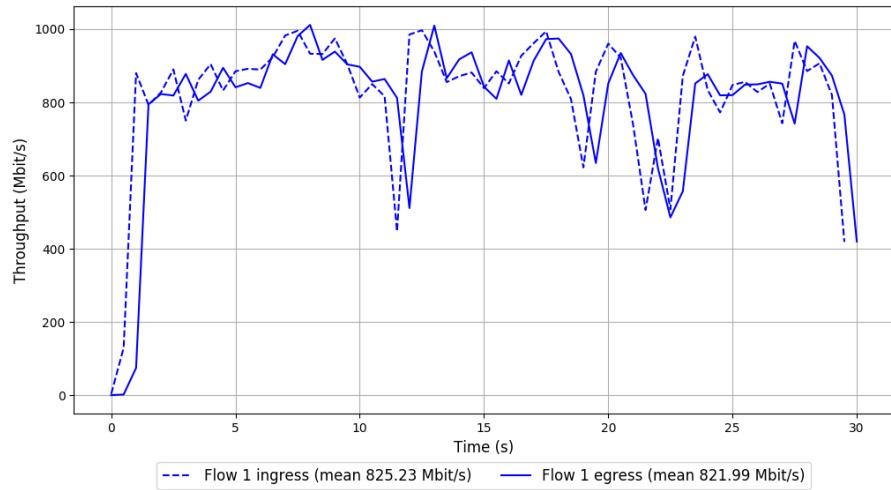


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-07-12 08:57:16
End at: 2019-07-12 08:57:46
Local clock offset: 0.036 ms
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2019-07-12 12:33:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 821.99 Mbit/s
95th percentile per-packet one-way delay: 118.857 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 821.99 Mbit/s
95th percentile per-packet one-way delay: 118.857 ms
Loss rate: 0.80%
```

Run 1: Report of FillP-Sheep — Data Link

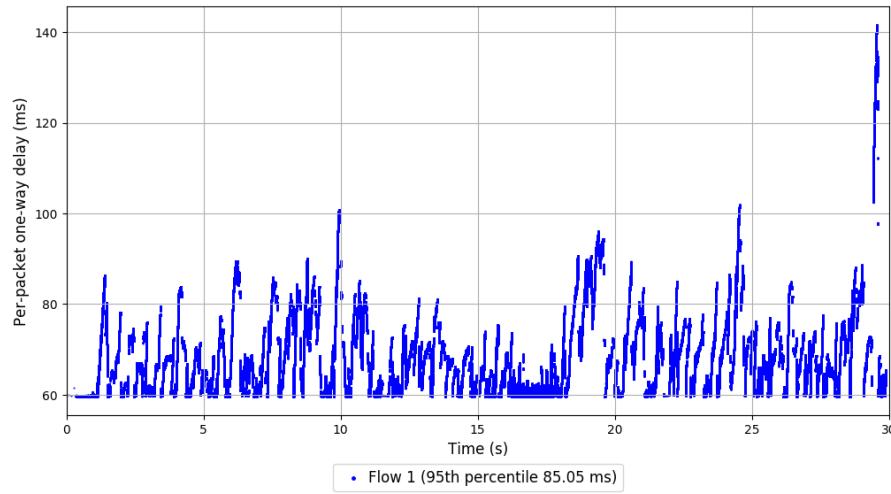
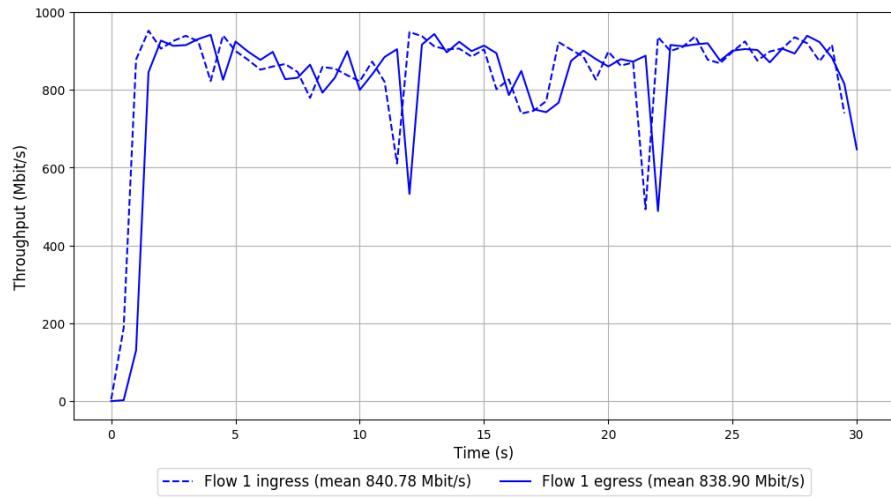


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-07-12 09:32:16
End at: 2019-07-12 09:32:46
Local clock offset: -0.0 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-07-12 12:33:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 838.90 Mbit/s
95th percentile per-packet one-way delay: 85.051 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 838.90 Mbit/s
95th percentile per-packet one-way delay: 85.051 ms
Loss rate: 0.62%
```

Run 2: Report of FillP-Sheep — Data Link

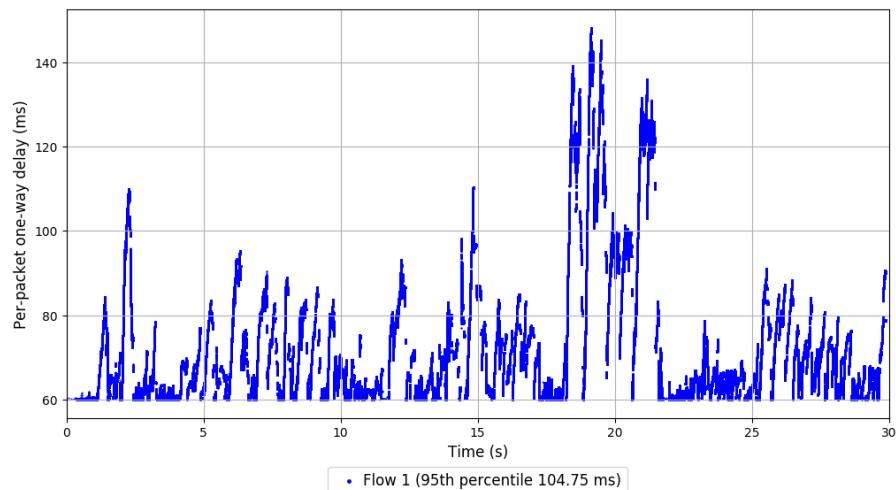
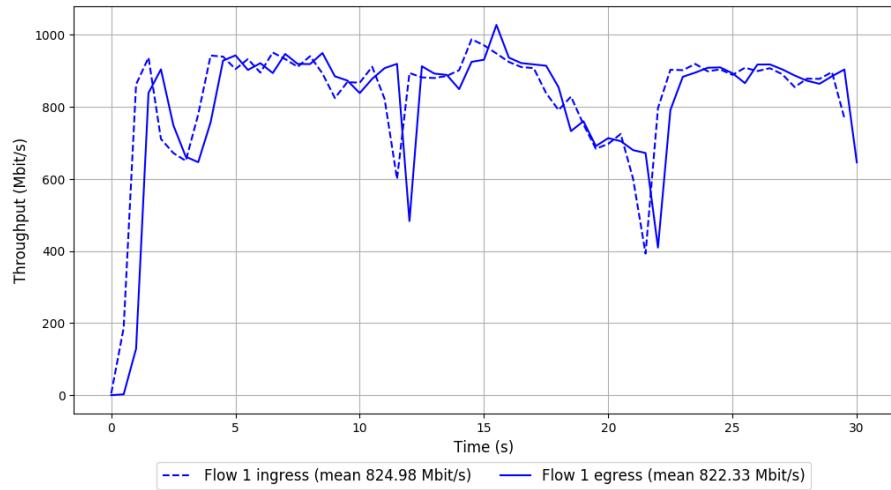


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-07-12 10:07:27
End at: 2019-07-12 10:07:57
Local clock offset: -0.036 ms
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2019-07-12 12:33:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 822.33 Mbit/s
95th percentile per-packet one-way delay: 104.750 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 822.33 Mbit/s
95th percentile per-packet one-way delay: 104.750 ms
Loss rate: 0.73%
```

Run 3: Report of FillP-Sheep — Data Link

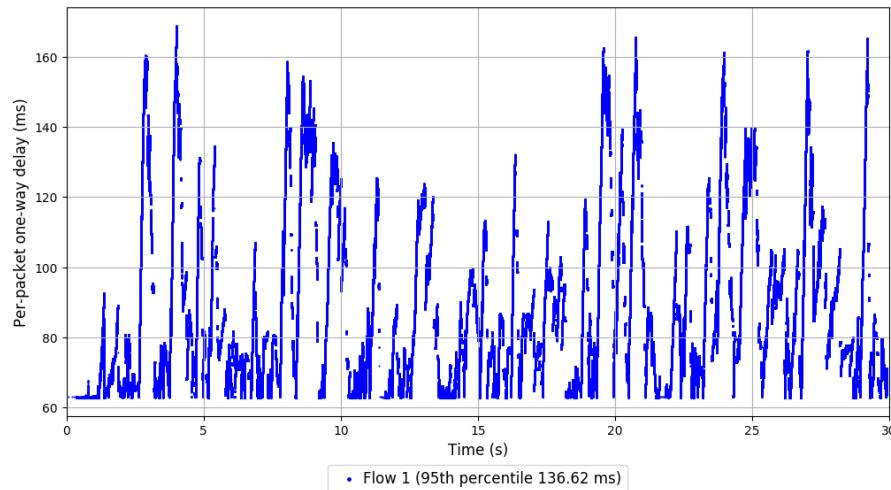
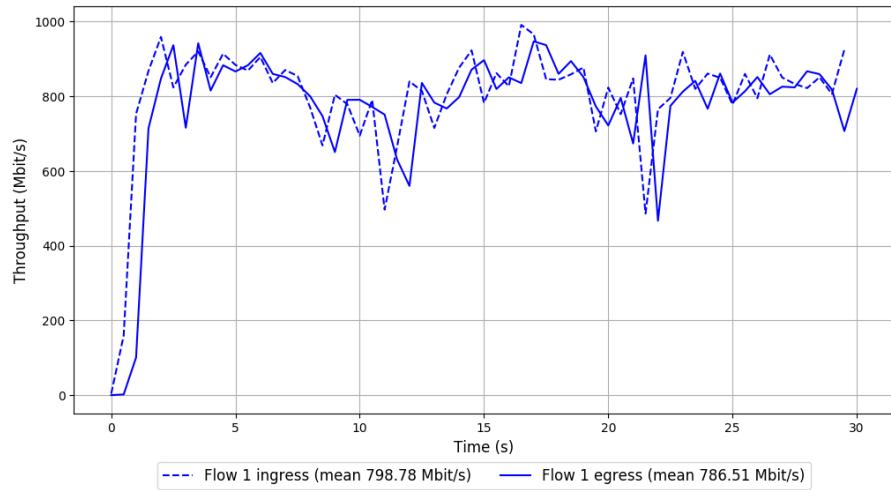


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-07-12 10:42:42
End at: 2019-07-12 10:43:12
Local clock offset: 0.012 ms
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2019-07-12 12:40:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 786.51 Mbit/s
95th percentile per-packet one-way delay: 136.615 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 786.51 Mbit/s
95th percentile per-packet one-way delay: 136.615 ms
Loss rate: 1.94%
```

Run 4: Report of FillP-Sheep — Data Link

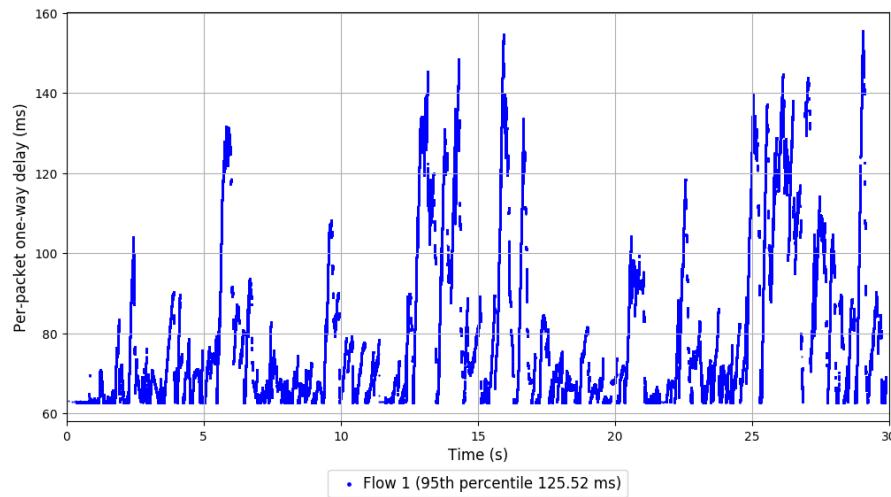
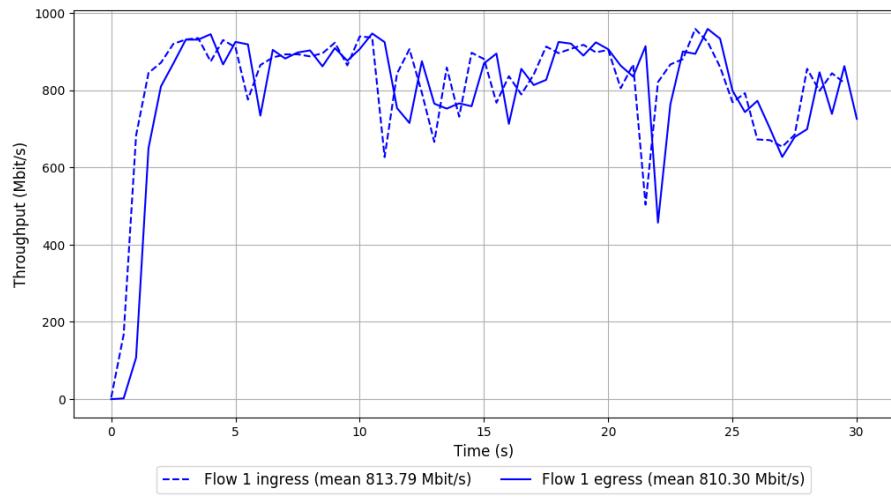


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-07-12 11:18:00
End at: 2019-07-12 11:18:30
Local clock offset: -0.055 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-07-12 12:48:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 810.30 Mbit/s
95th percentile per-packet one-way delay: 125.524 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 810.30 Mbit/s
95th percentile per-packet one-way delay: 125.524 ms
Loss rate: 0.84%
```

Run 5: Report of FillP-Sheep — Data Link

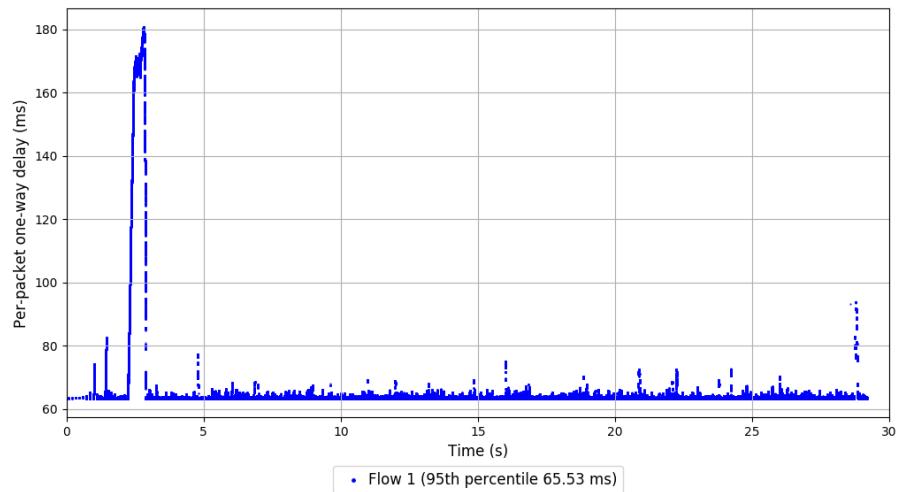
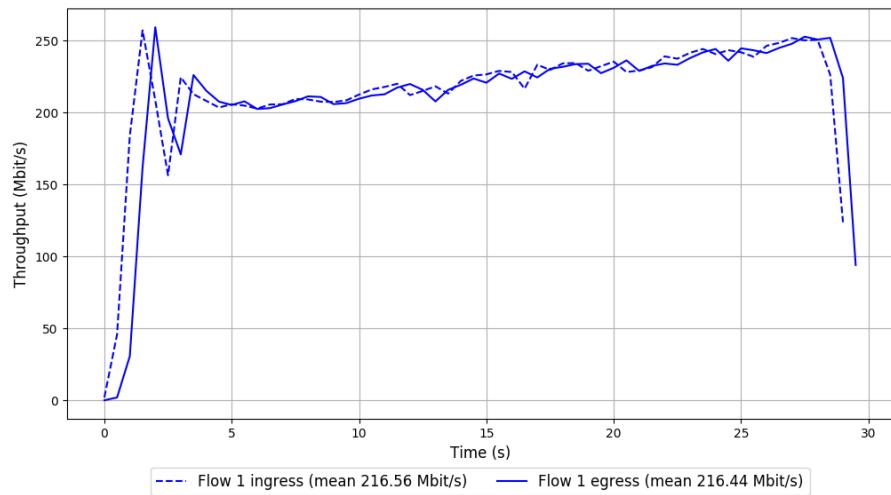


Run 1: Statistics of Indigo

```
Start at: 2019-07-12 09:01:36
End at: 2019-07-12 09:02:06
Local clock offset: -0.004 ms
Remote clock offset: -0.686 ms

# Below is generated by plot.py at 2019-07-12 12:48:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.44 Mbit/s
95th percentile per-packet one-way delay: 65.530 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 216.44 Mbit/s
95th percentile per-packet one-way delay: 65.530 ms
Loss rate: 0.48%
```

Run 1: Report of Indigo — Data Link

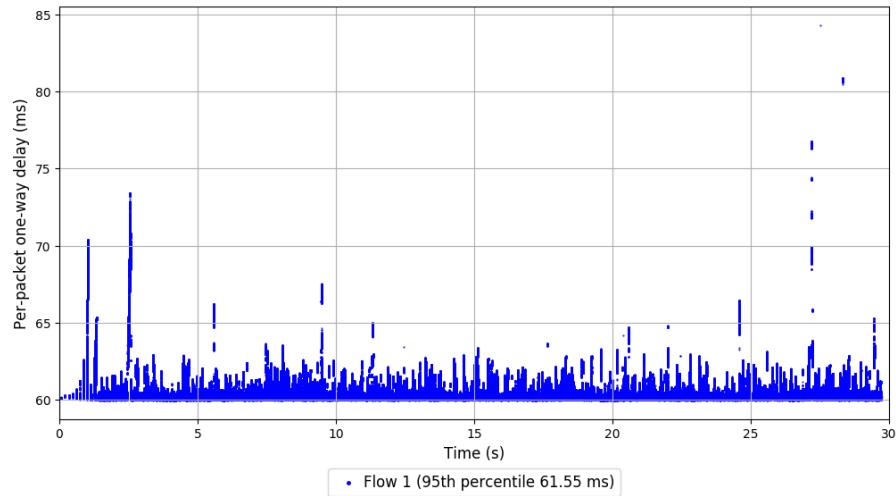
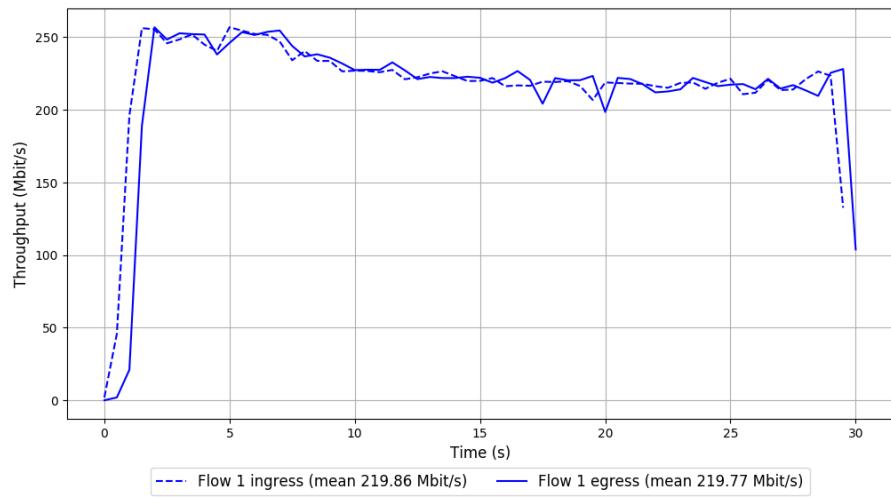


Run 2: Statistics of Indigo

```
Start at: 2019-07-12 09:36:43
End at: 2019-07-12 09:37:13
Local clock offset: 0.002 ms
Remote clock offset: -0.309 ms

# Below is generated by plot.py at 2019-07-12 12:48:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.77 Mbit/s
95th percentile per-packet one-way delay: 61.551 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 219.77 Mbit/s
95th percentile per-packet one-way delay: 61.551 ms
Loss rate: 0.44%
```

Run 2: Report of Indigo — Data Link

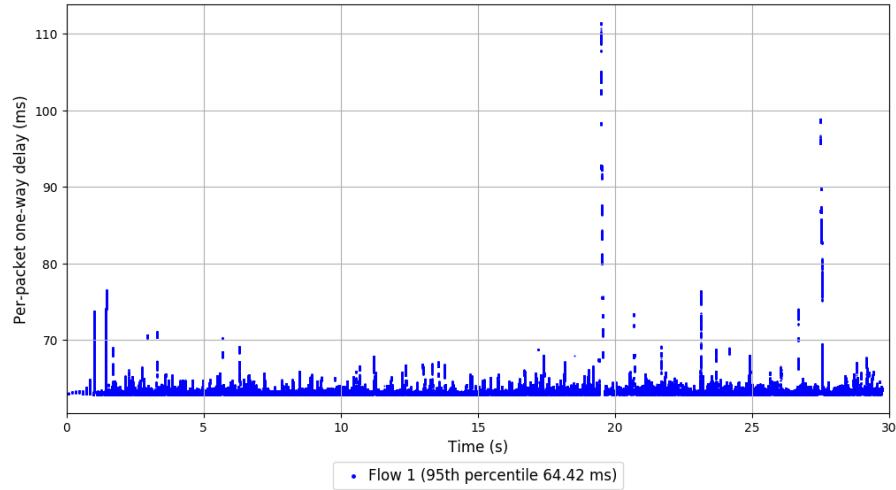
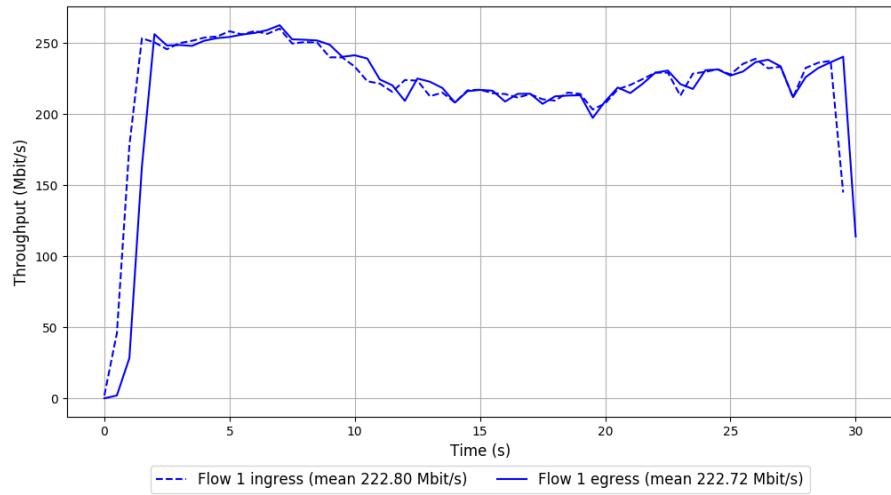


Run 3: Statistics of Indigo

```
Start at: 2019-07-12 10:11:52
End at: 2019-07-12 10:12:22
Local clock offset: -0.072 ms
Remote clock offset: -0.326 ms

# Below is generated by plot.py at 2019-07-12 12:48:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.72 Mbit/s
95th percentile per-packet one-way delay: 64.417 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 222.72 Mbit/s
95th percentile per-packet one-way delay: 64.417 ms
Loss rate: 0.45%
```

Run 3: Report of Indigo — Data Link

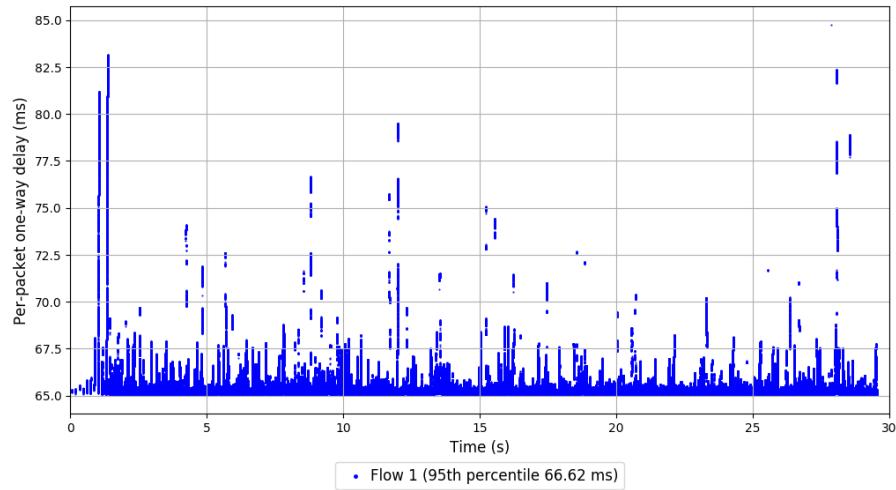
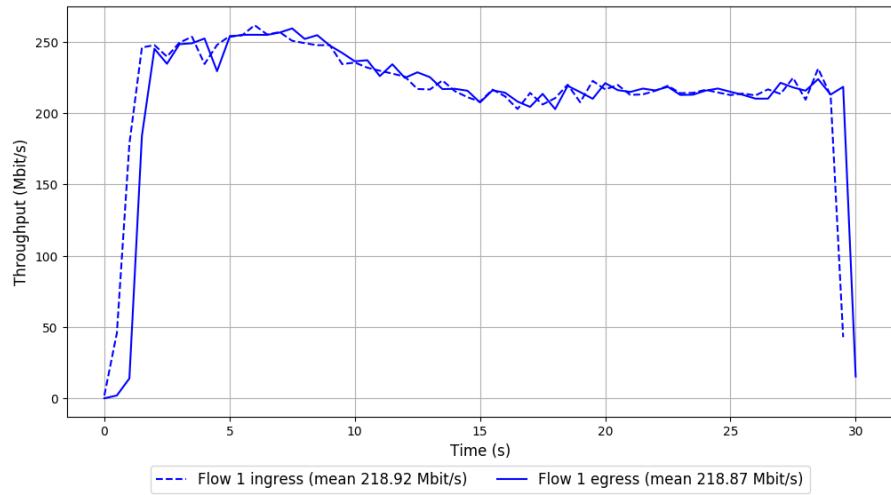


Run 4: Statistics of Indigo

```
Start at: 2019-07-12 10:47:07
End at: 2019-07-12 10:47:37
Local clock offset: -0.009 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-07-12 12:48:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.87 Mbit/s
95th percentile per-packet one-way delay: 66.625 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 218.87 Mbit/s
95th percentile per-packet one-way delay: 66.625 ms
Loss rate: 0.45%
```

Run 4: Report of Indigo — Data Link

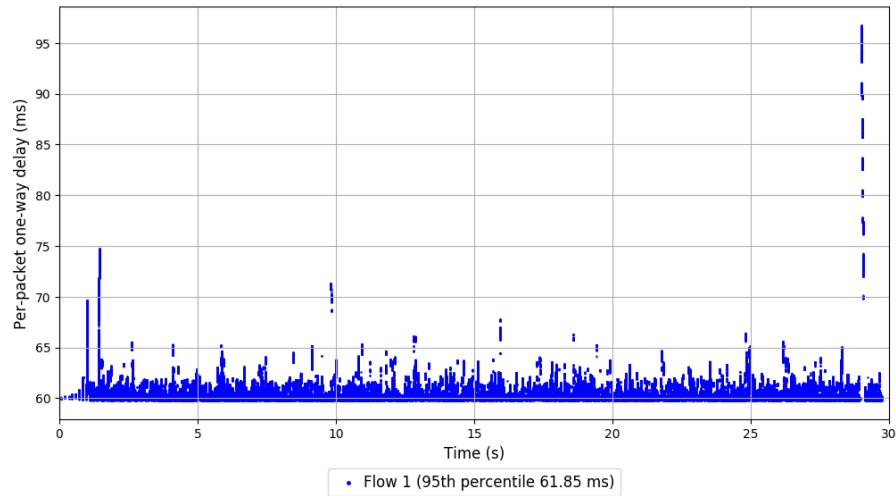
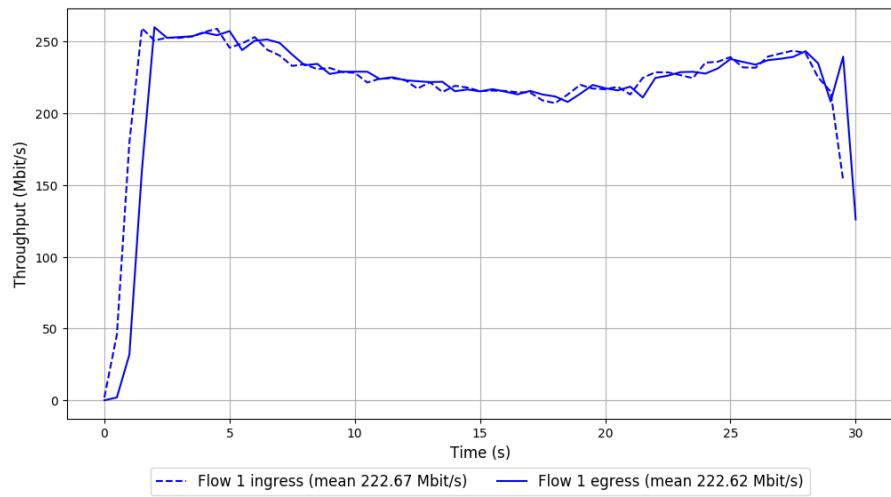


Run 5: Statistics of Indigo

```
Start at: 2019-07-12 11:22:23
End at: 2019-07-12 11:22:53
Local clock offset: -0.027 ms
Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2019-07-12 12:48:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.62 Mbit/s
95th percentile per-packet one-way delay: 61.848 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 222.62 Mbit/s
95th percentile per-packet one-way delay: 61.848 ms
Loss rate: 0.42%
```

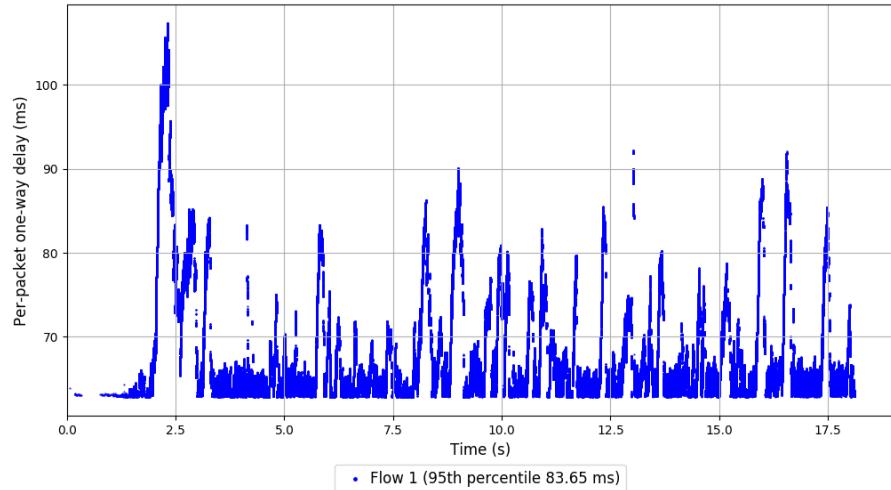
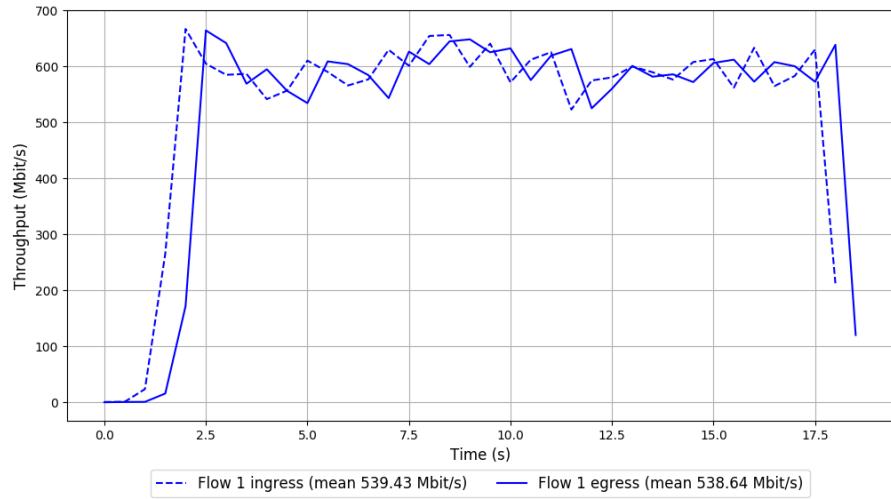
Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-12 08:54:17
End at: 2019-07-12 08:54:47
Local clock offset: 0.03 ms
Remote clock offset: -0.225 ms

Run 1: Report of Indigo-MusesC3 — Data Link

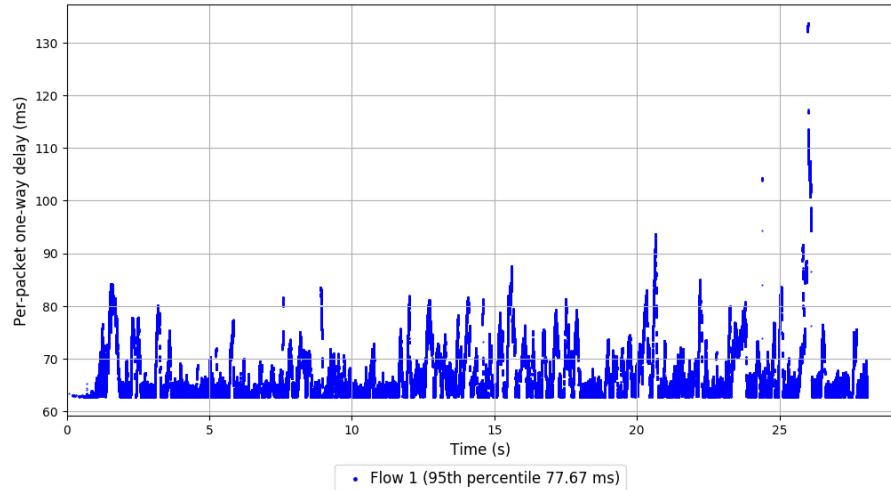
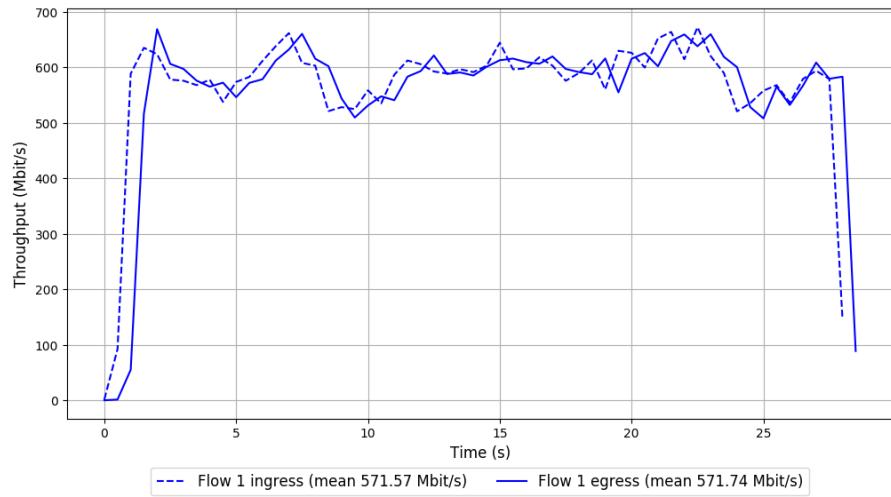


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 09:29:06
End at: 2019-07-12 09:29:36
Local clock offset: 0.008 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-07-12 12:48:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 571.74 Mbit/s
95th percentile per-packet one-way delay: 77.673 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 571.74 Mbit/s
95th percentile per-packet one-way delay: 77.673 ms
Loss rate: 0.41%
```

Run 2: Report of Indigo-MusesC3 — Data Link

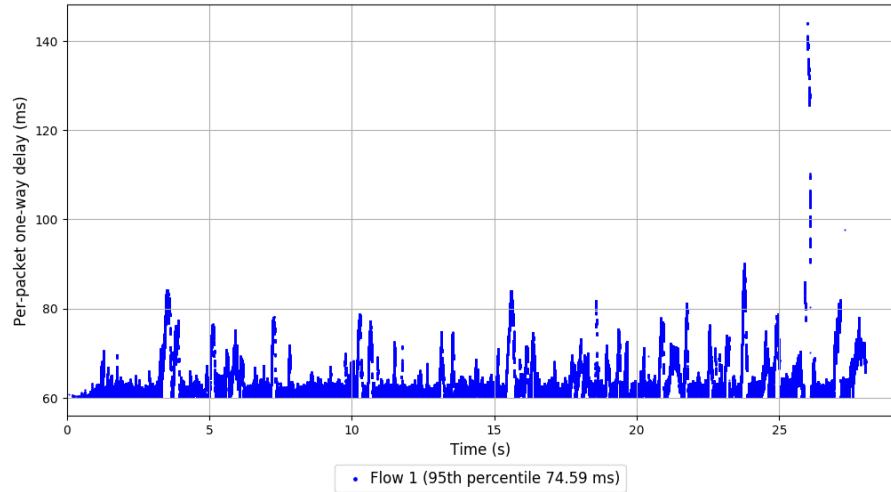
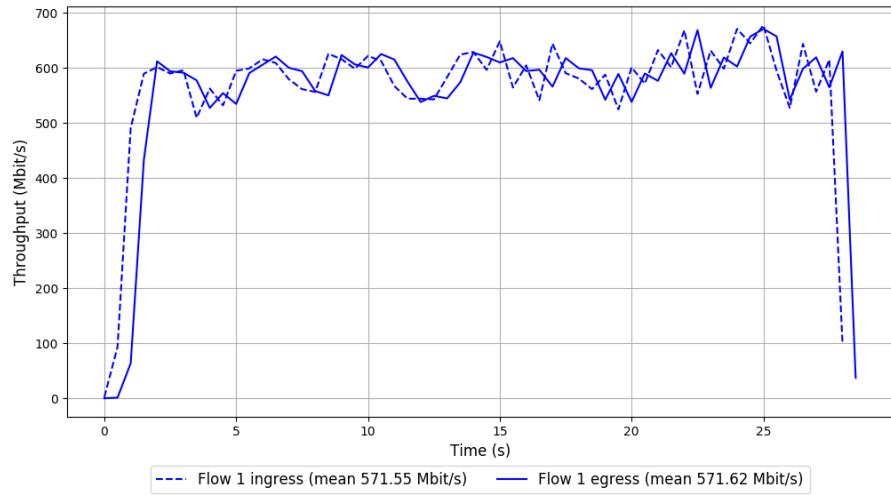


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 10:04:21
End at: 2019-07-12 10:04:51
Local clock offset: -0.073 ms
Remote clock offset: -0.22 ms

# Below is generated by plot.py at 2019-07-12 12:49:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 571.62 Mbit/s
95th percentile per-packet one-way delay: 74.589 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 571.62 Mbit/s
95th percentile per-packet one-way delay: 74.589 ms
Loss rate: 0.42%
```

Run 3: Report of Indigo-MusesC3 — Data Link

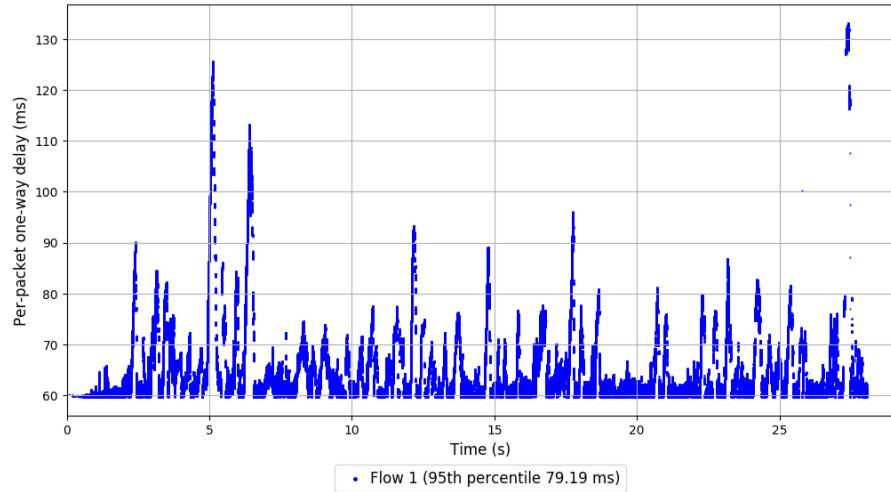
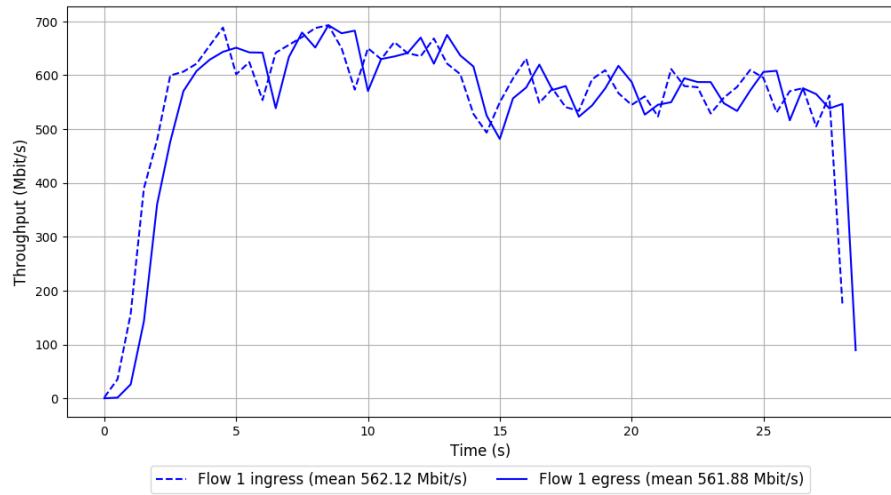


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 10:39:34
End at: 2019-07-12 10:40:04
Local clock offset: -0.021 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-07-12 12:49:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 561.88 Mbit/s
95th percentile per-packet one-way delay: 79.194 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 561.88 Mbit/s
95th percentile per-packet one-way delay: 79.194 ms
Loss rate: 0.47%
```

Run 4: Report of Indigo-MusesC3 — Data Link

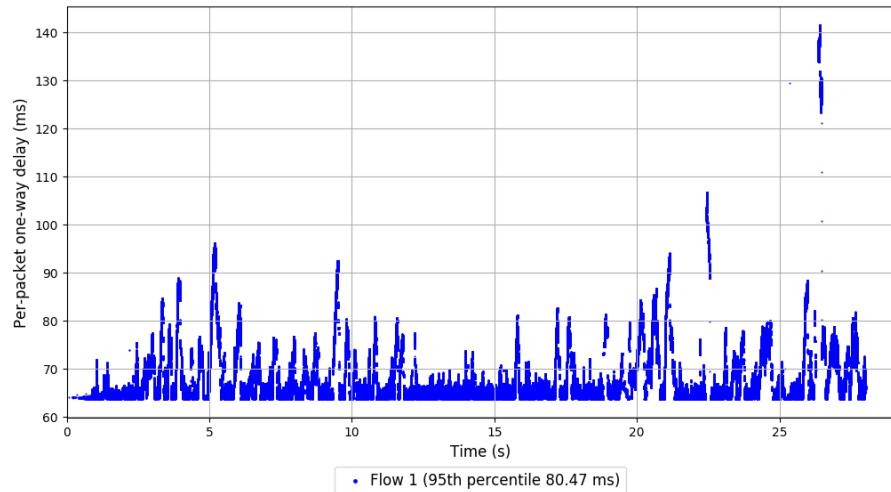
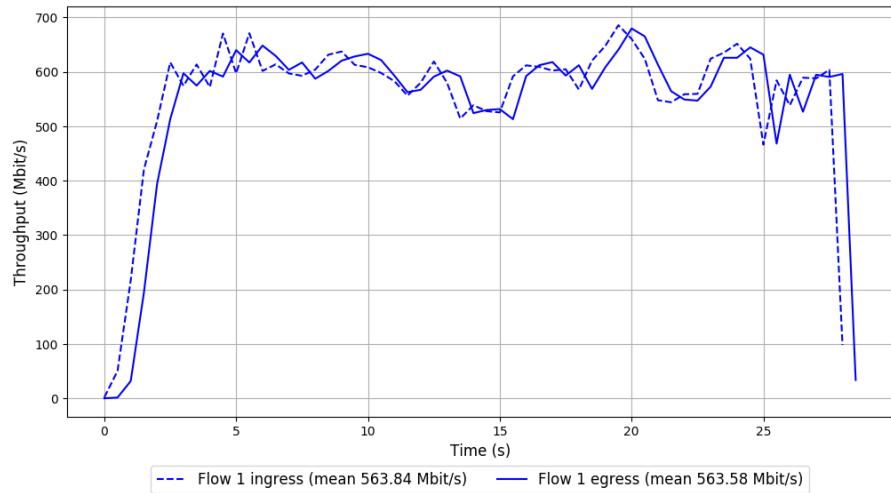


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-07-12 11:14:51
End at: 2019-07-12 11:15:22
Local clock offset: -0.026 ms
Remote clock offset: -0.892 ms

# Below is generated by plot.py at 2019-07-12 12:49:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 563.58 Mbit/s
95th percentile per-packet one-way delay: 80.475 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 563.58 Mbit/s
95th percentile per-packet one-way delay: 80.475 ms
Loss rate: 0.48%
```

Run 5: Report of Indigo-MusesC3 — Data Link

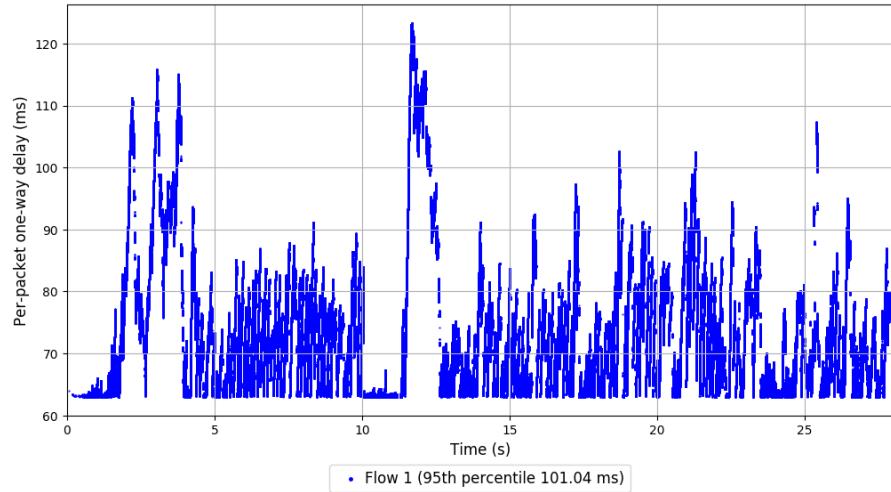
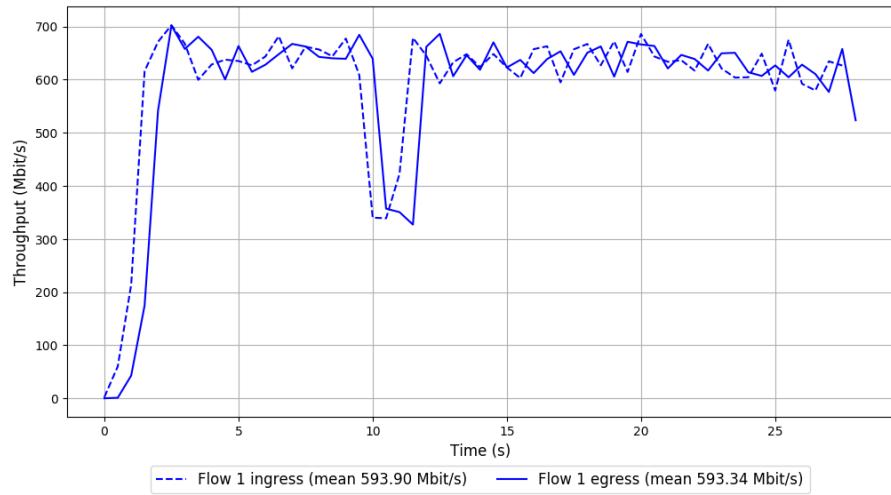


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-07-12 09:14:38
End at: 2019-07-12 09:15:08
Local clock offset: -0.035 ms
Remote clock offset: -0.249 ms

# Below is generated by plot.py at 2019-07-12 12:49:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.34 Mbit/s
95th percentile per-packet one-way delay: 101.043 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 593.34 Mbit/s
95th percentile per-packet one-way delay: 101.043 ms
Loss rate: 0.54%
```

Run 1: Report of Indigo-MusesC5 — Data Link

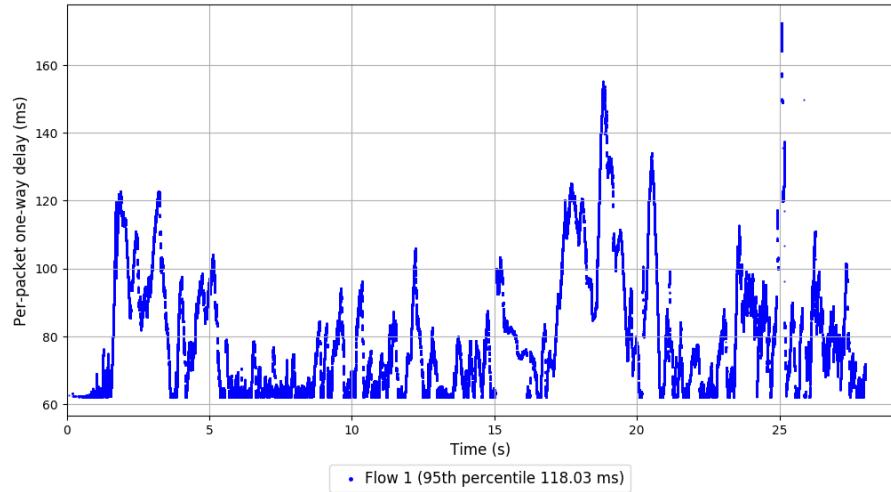
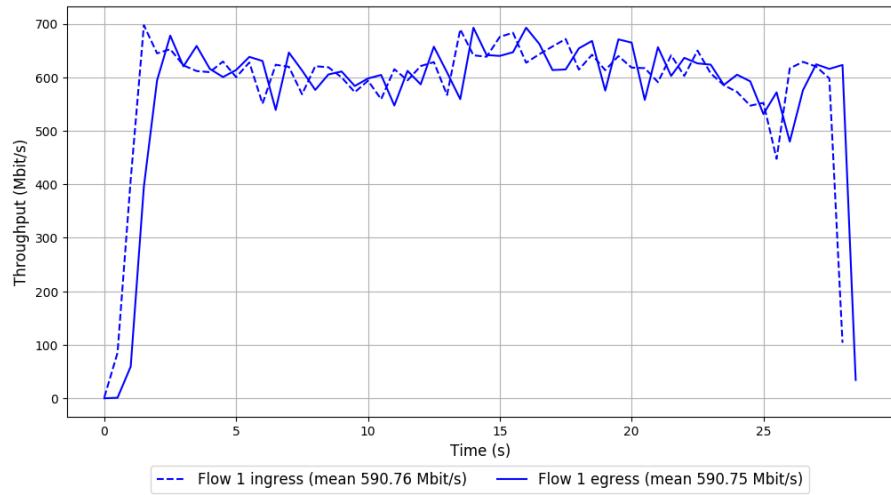


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 09:49:55
End at: 2019-07-12 09:50:25
Local clock offset: 0.02 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-07-12 12:49:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 590.75 Mbit/s
95th percentile per-packet one-way delay: 118.034 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 590.75 Mbit/s
95th percentile per-packet one-way delay: 118.034 ms
Loss rate: 0.44%
```

Run 2: Report of Indigo-MusesC5 — Data Link

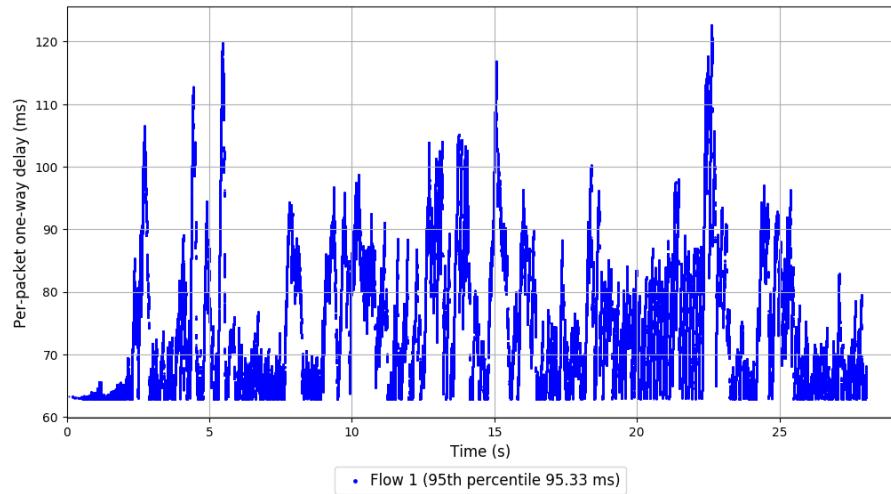
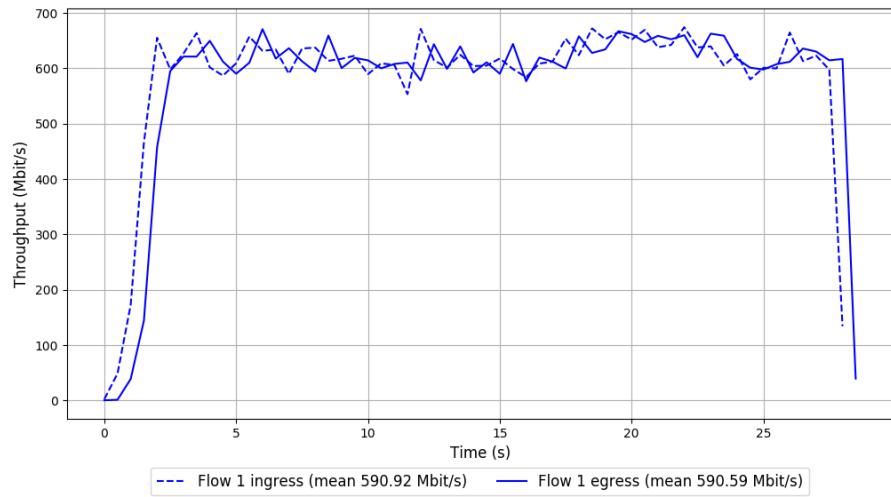


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 10:24:59
End at: 2019-07-12 10:25:29
Local clock offset: -0.098 ms
Remote clock offset: -0.2 ms

# Below is generated by plot.py at 2019-07-12 12:50:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 590.59 Mbit/s
95th percentile per-packet one-way delay: 95.331 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 590.59 Mbit/s
95th percentile per-packet one-way delay: 95.331 ms
Loss rate: 0.50%
```

Run 3: Report of Indigo-MusesC5 — Data Link

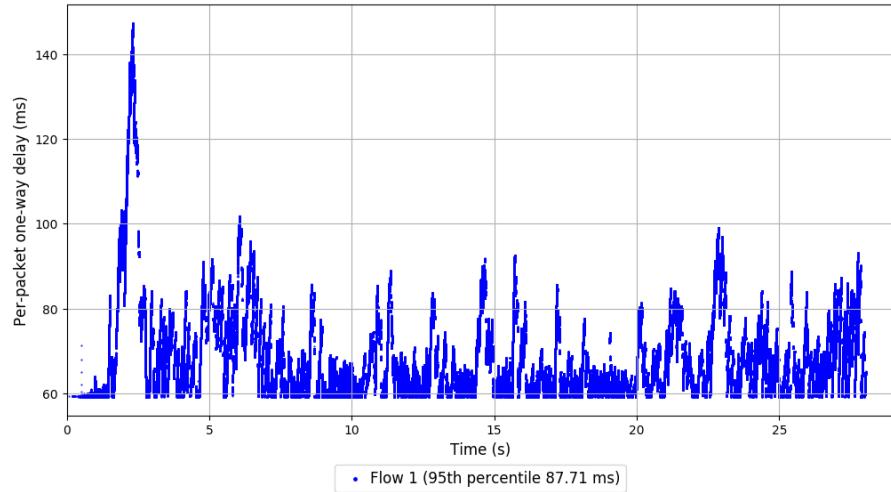
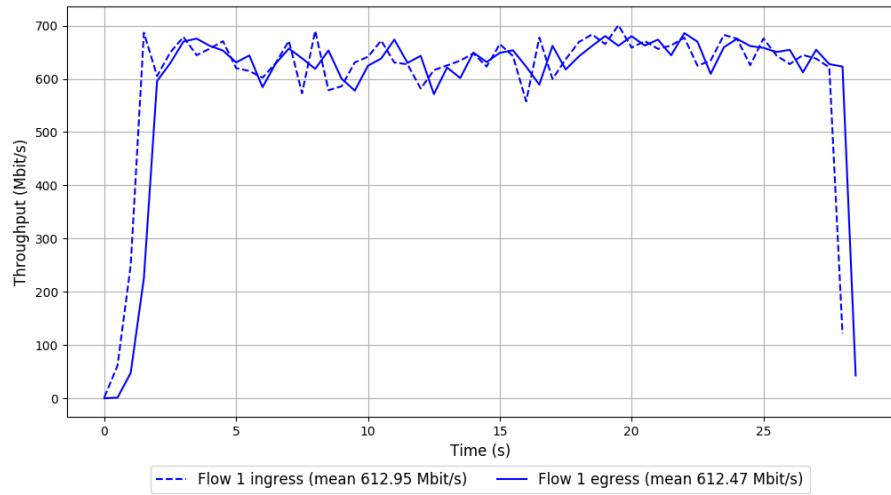


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 11:00:14
End at: 2019-07-12 11:00:44
Local clock offset: 0.015 ms
Remote clock offset: 0.542 ms

# Below is generated by plot.py at 2019-07-12 12:57:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 612.47 Mbit/s
95th percentile per-packet one-way delay: 87.709 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 612.47 Mbit/s
95th percentile per-packet one-way delay: 87.709 ms
Loss rate: 0.51%
```

Run 4: Report of Indigo-MusesC5 — Data Link

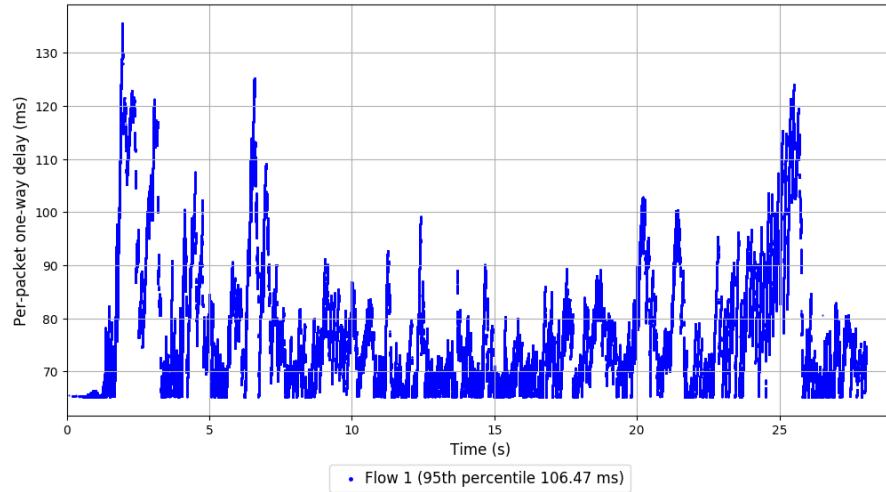
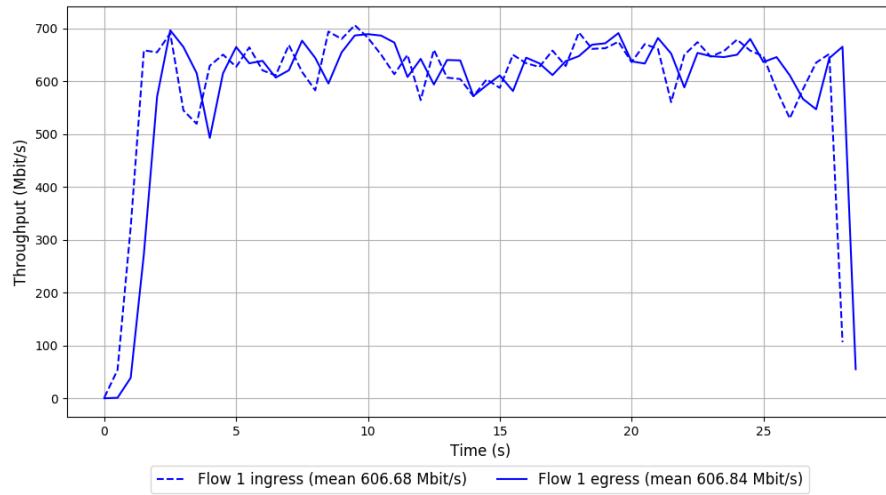


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-07-12 11:35:26
End at: 2019-07-12 11:35:56
Local clock offset: -0.051 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-07-12 12:58:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 606.84 Mbit/s
95th percentile per-packet one-way delay: 106.470 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 606.84 Mbit/s
95th percentile per-packet one-way delay: 106.470 ms
Loss rate: 0.42%
```

Run 5: Report of Indigo-MusesC5 — Data Link

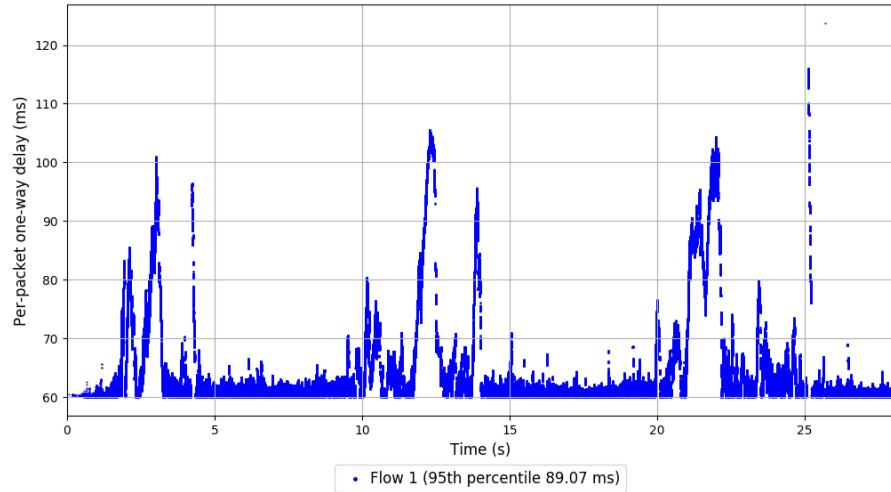
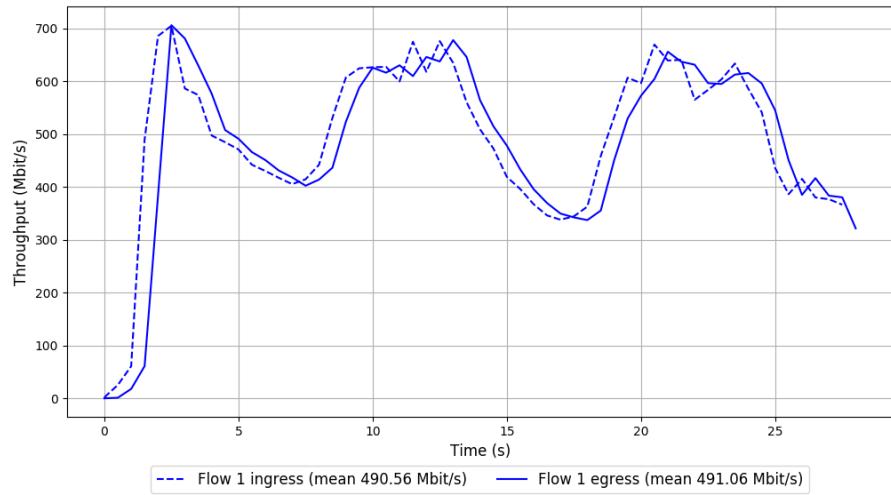


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-07-12 09:00:05
End at: 2019-07-12 09:00:35
Local clock offset: 0.067 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-07-12 12:58:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 491.06 Mbit/s
95th percentile per-packet one-way delay: 89.066 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 491.06 Mbit/s
95th percentile per-packet one-way delay: 89.066 ms
Loss rate: 0.33%
```

Run 1: Report of Indigo-MusesD — Data Link

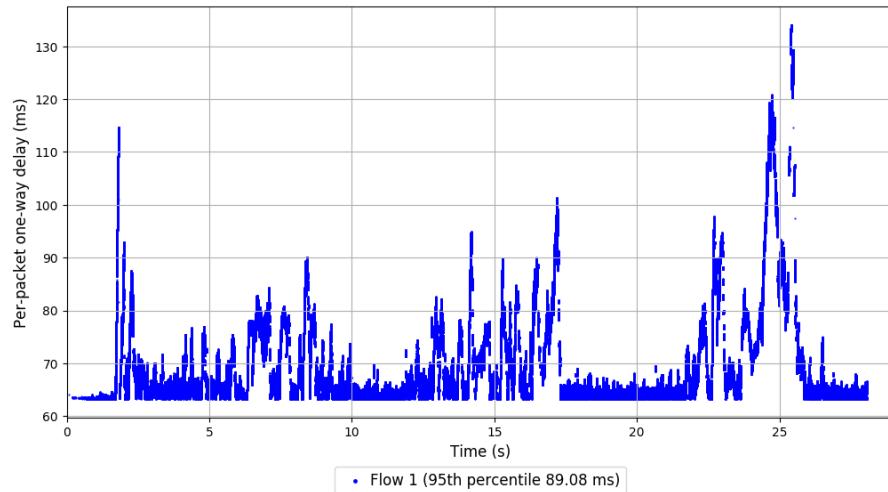
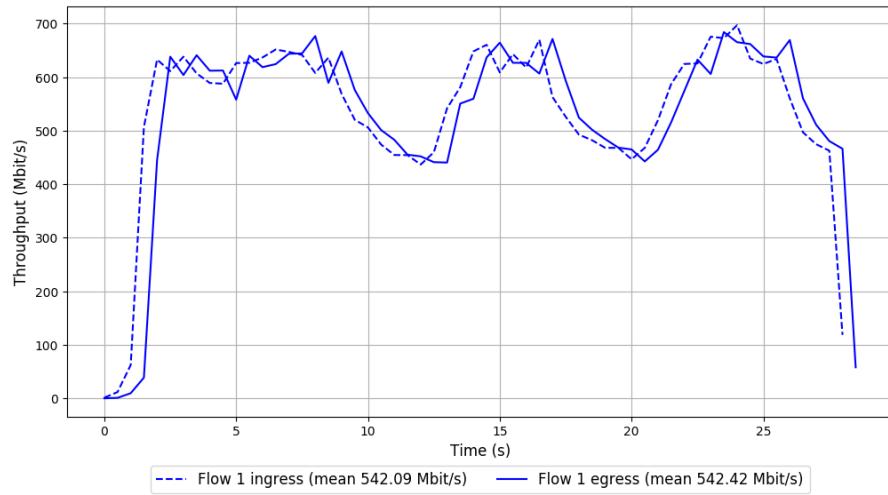


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 09:35:10
End at: 2019-07-12 09:35:40
Local clock offset: -0.002 ms
Remote clock offset: -0.289 ms

# Below is generated by plot.py at 2019-07-12 12:58:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 542.42 Mbit/s
95th percentile per-packet one-way delay: 89.082 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 542.42 Mbit/s
95th percentile per-packet one-way delay: 89.082 ms
Loss rate: 0.38%
```

Run 2: Report of Indigo-MusesD — Data Link

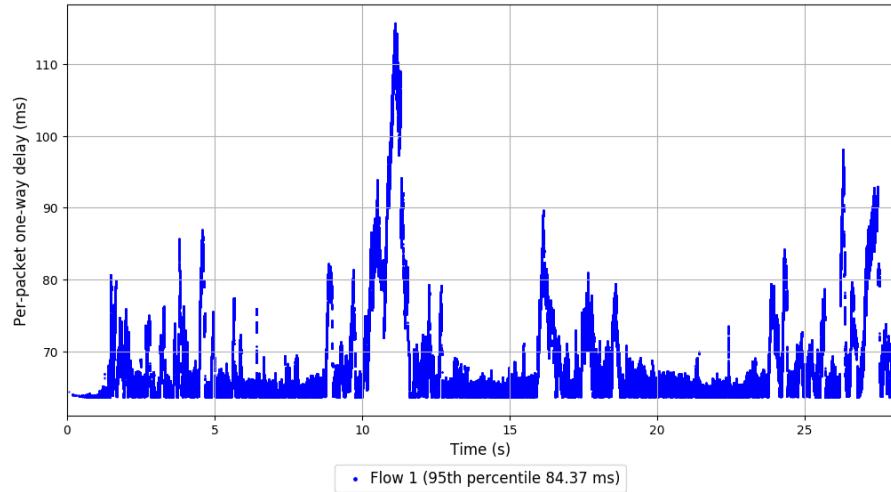
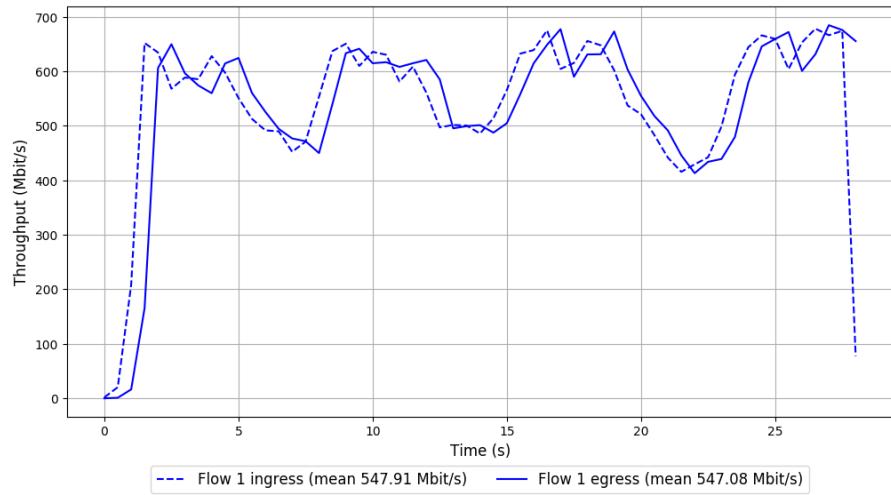


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 10:10:19
End at: 2019-07-12 10:10:49
Local clock offset: -0.078 ms
Remote clock offset: -0.957 ms

# Below is generated by plot.py at 2019-07-12 12:58:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 547.08 Mbit/s
95th percentile per-packet one-way delay: 84.374 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 547.08 Mbit/s
95th percentile per-packet one-way delay: 84.374 ms
Loss rate: 0.60%
```

Run 3: Report of Indigo-MusesD — Data Link

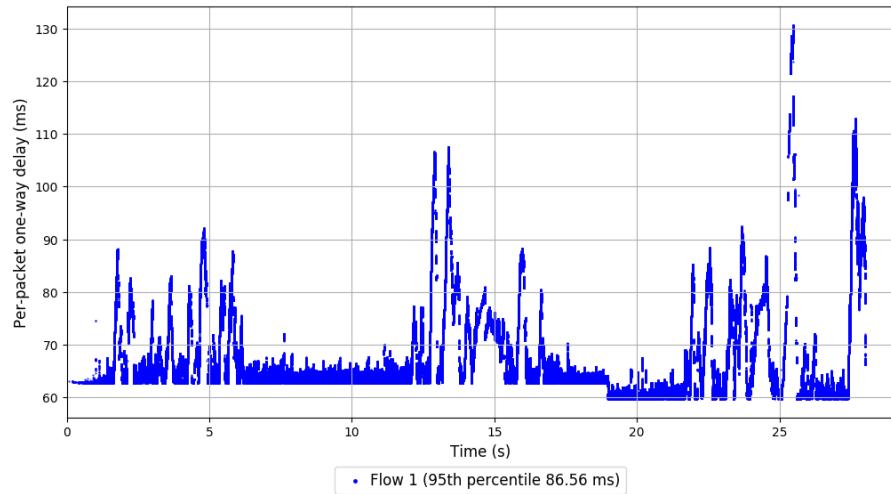
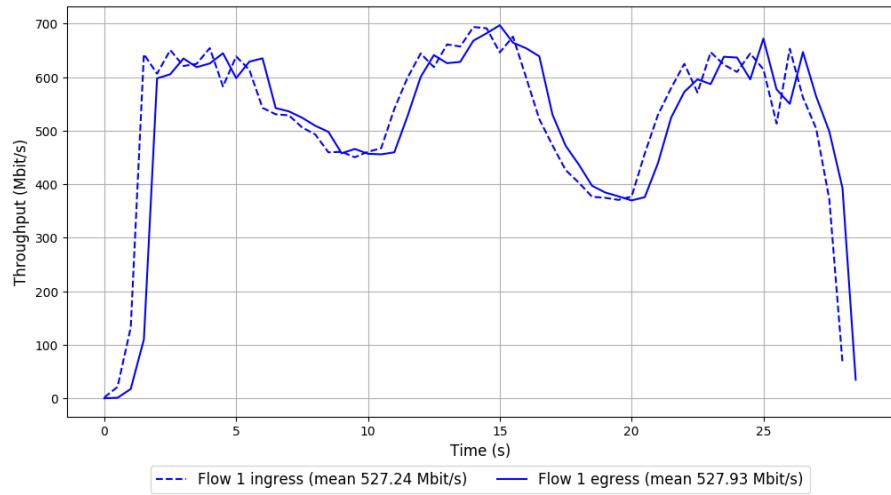


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 10:45:35
End at: 2019-07-12 10:46:05
Local clock offset: -0.029 ms
Remote clock offset: -0.245 ms

# Below is generated by plot.py at 2019-07-12 12:58:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 527.93 Mbit/s
95th percentile per-packet one-way delay: 86.558 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 527.93 Mbit/s
95th percentile per-packet one-way delay: 86.558 ms
Loss rate: 0.31%
```

Run 4: Report of Indigo-MusesD — Data Link

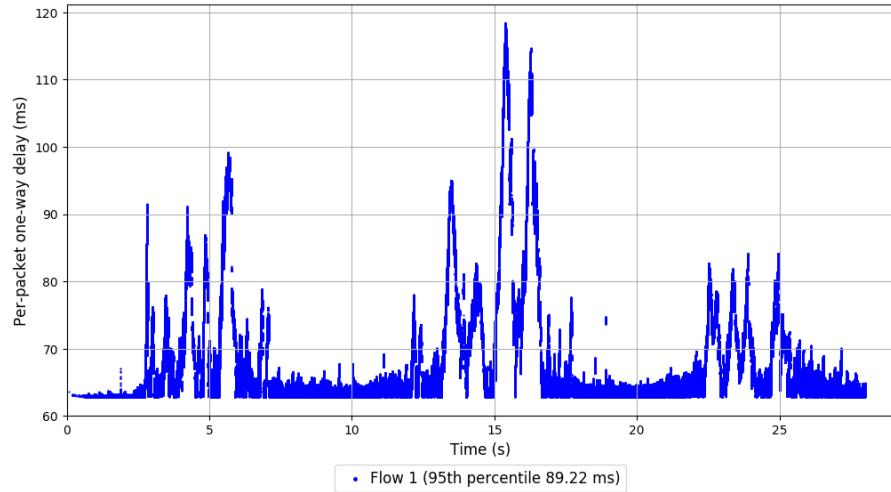
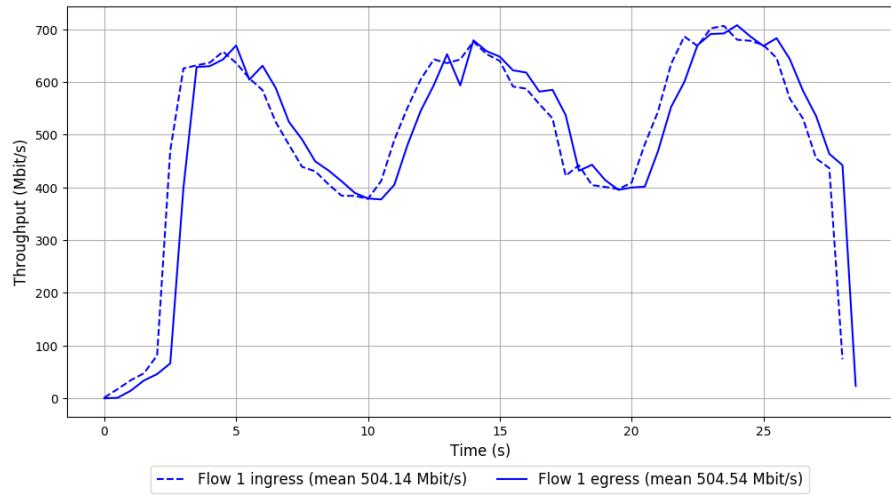


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-07-12 11:20:52
End at: 2019-07-12 11:21:22
Local clock offset: -0.046 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-07-12 12:58:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 504.54 Mbit/s
95th percentile per-packet one-way delay: 89.222 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 504.54 Mbit/s
95th percentile per-packet one-way delay: 89.222 ms
Loss rate: 0.37%
```

Run 5: Report of Indigo-MusesD — Data Link

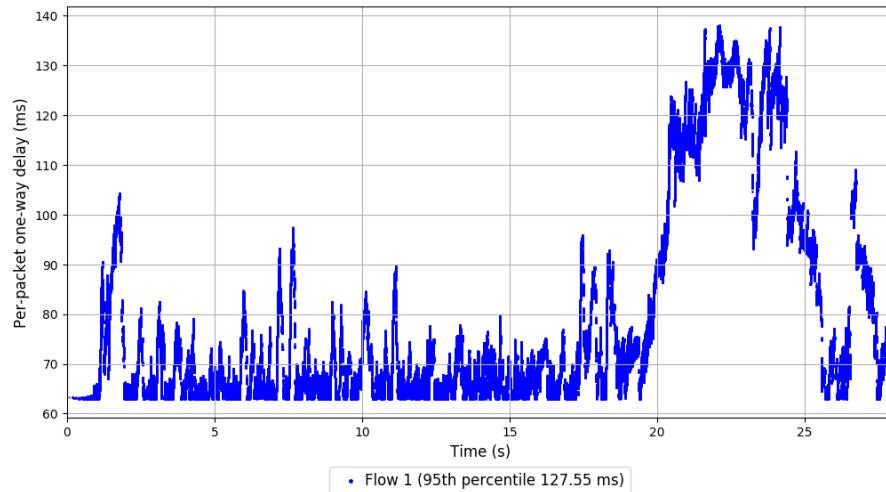
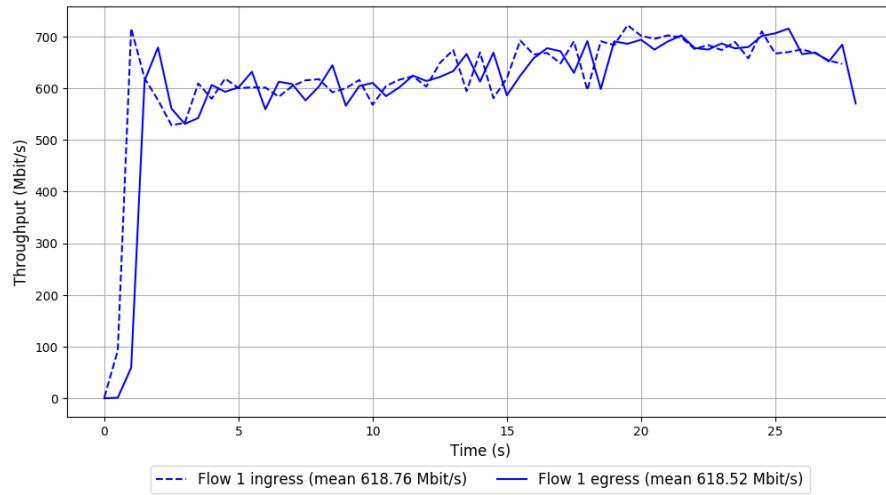


```
Run 1: Statistics of Indigo-MusesT
```

```
Start at: 2019-07-12 09:08:56
End at: 2019-07-12 09:09:26
Local clock offset: 0.003 ms
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2019-07-12 13:01:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 618.52 Mbit/s
95th percentile per-packet one-way delay: 127.545 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 618.52 Mbit/s
95th percentile per-packet one-way delay: 127.545 ms
Loss rate: 0.48%
```

Run 1: Report of Indigo-MusesT — Data Link

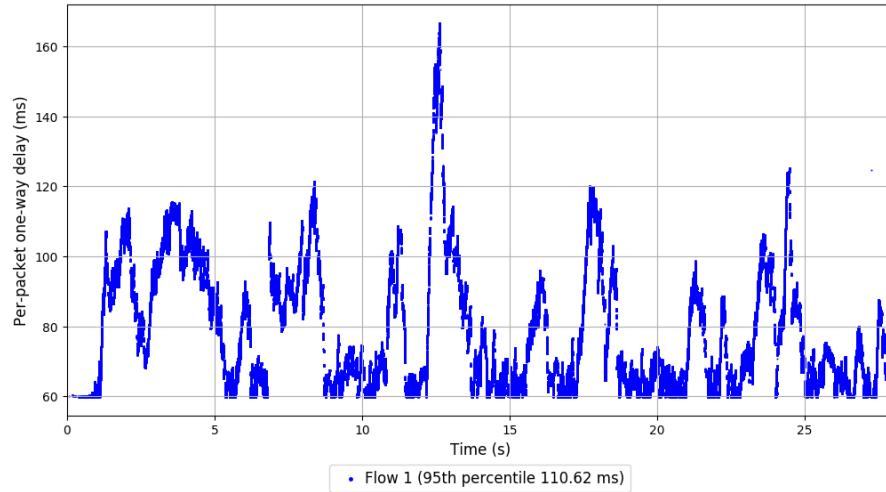
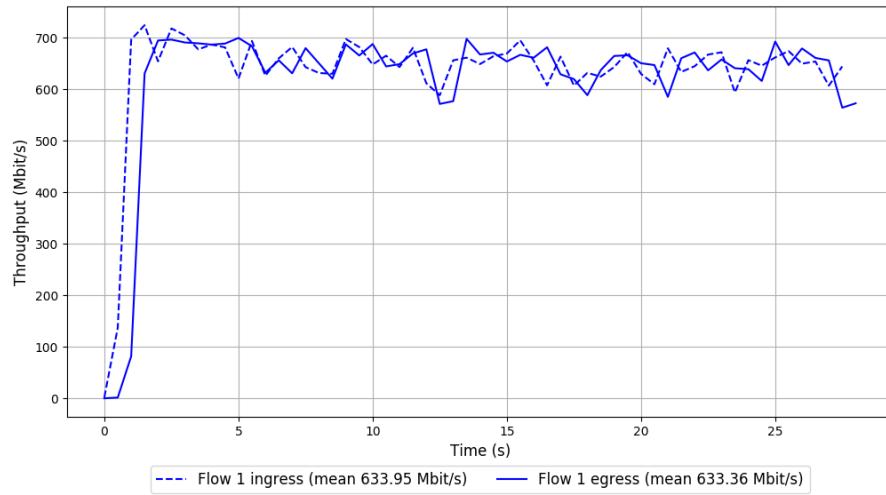


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 09:44:03
End at: 2019-07-12 09:44:33
Local clock offset: 0.02 ms
Remote clock offset: -0.298 ms

# Below is generated by plot.py at 2019-07-12 13:07:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 633.36 Mbit/s
95th percentile per-packet one-way delay: 110.622 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 633.36 Mbit/s
95th percentile per-packet one-way delay: 110.622 ms
Loss rate: 0.52%
```

Run 2: Report of Indigo-MusesT — Data Link

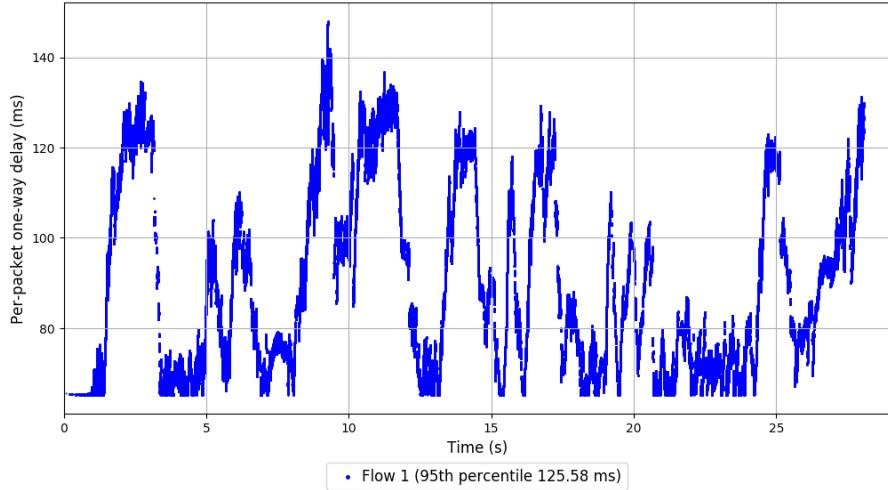
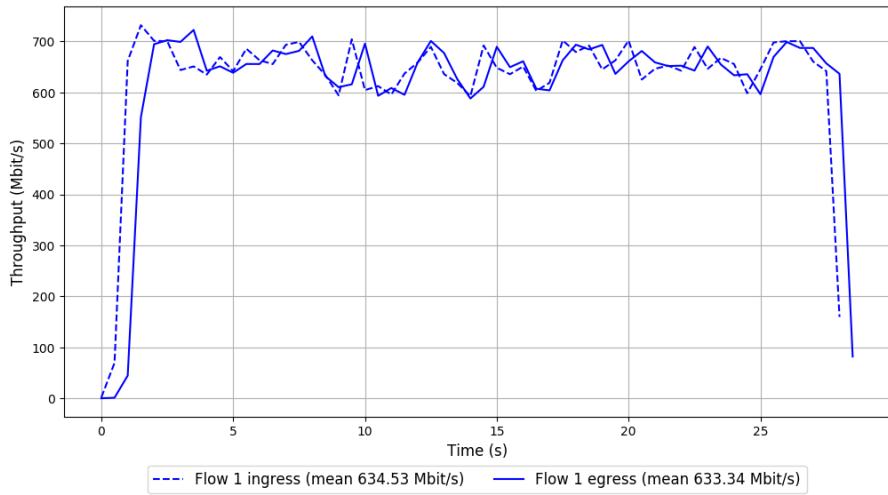


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 10:19:09
End at: 2019-07-12 10:19:39
Local clock offset: -0.096 ms
Remote clock offset: -0.258 ms

# Below is generated by plot.py at 2019-07-12 13:08:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 633.34 Mbit/s
95th percentile per-packet one-way delay: 125.580 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 633.34 Mbit/s
95th percentile per-packet one-way delay: 125.580 ms
Loss rate: 0.63%
```

Run 3: Report of Indigo-MusesT — Data Link

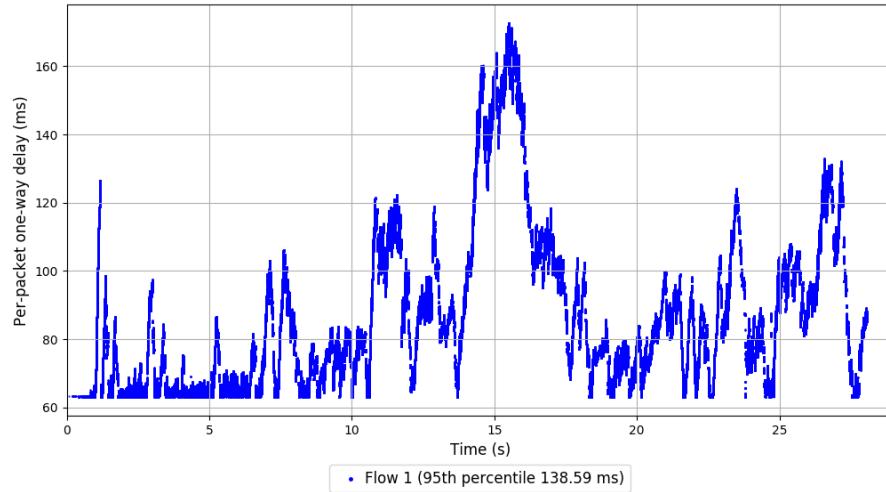
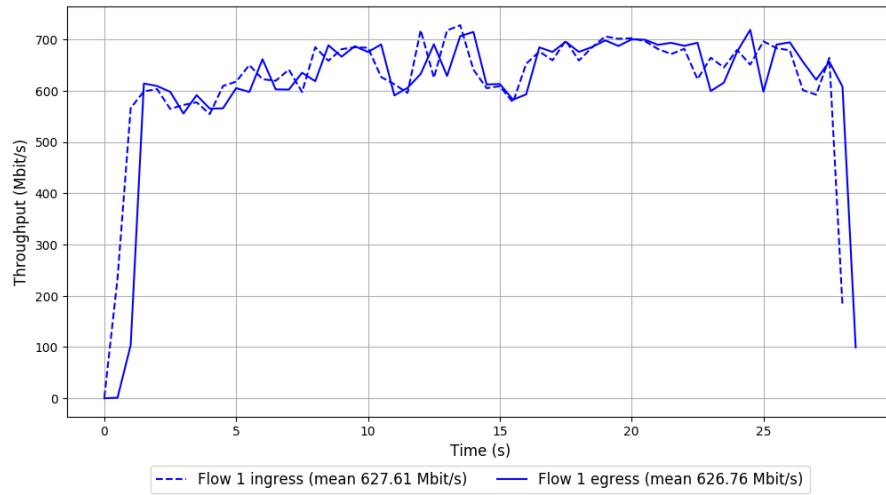


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 10:54:29
End at: 2019-07-12 10:54:59
Local clock offset: -0.007 ms
Remote clock offset: -0.336 ms

# Below is generated by plot.py at 2019-07-12 13:08:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 626.76 Mbit/s
95th percentile per-packet one-way delay: 138.595 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 626.76 Mbit/s
95th percentile per-packet one-way delay: 138.595 ms
Loss rate: 0.58%
```

Run 4: Report of Indigo-MusesT — Data Link

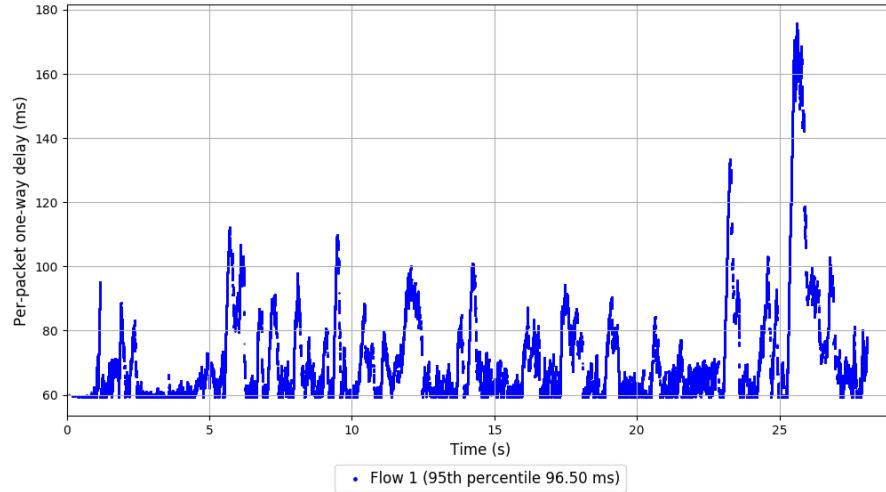
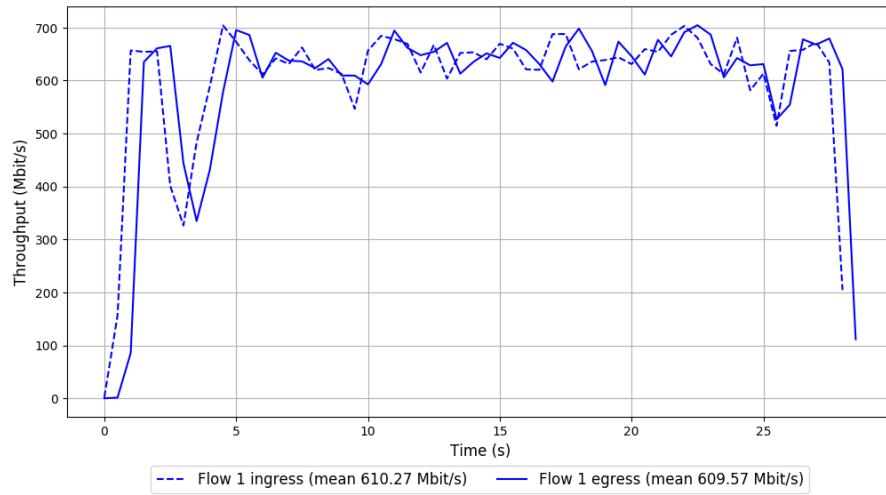


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-07-12 11:29:43
End at: 2019-07-12 11:30:13
Local clock offset: -0.033 ms
Remote clock offset: 0.553 ms

# Below is generated by plot.py at 2019-07-12 13:08:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 609.57 Mbit/s
95th percentile per-packet one-way delay: 96.502 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 609.57 Mbit/s
95th percentile per-packet one-way delay: 96.502 ms
Loss rate: 0.56%
```

Run 5: Report of Indigo-MusesT — Data Link

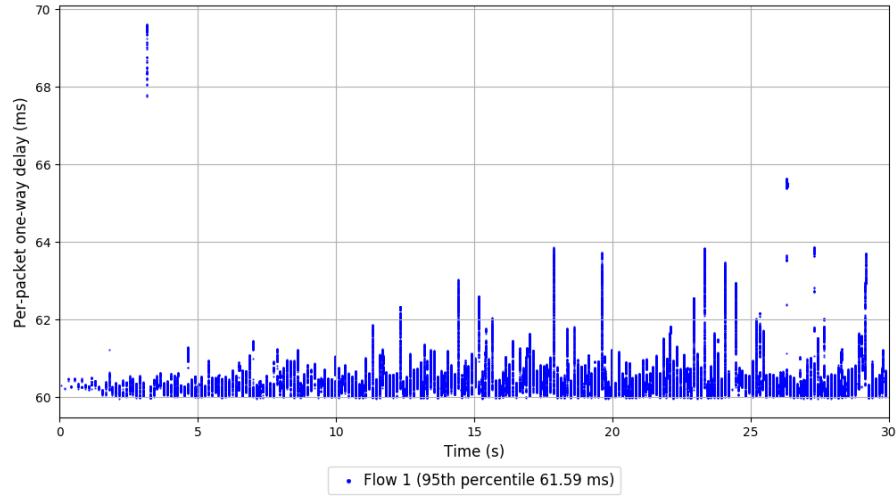
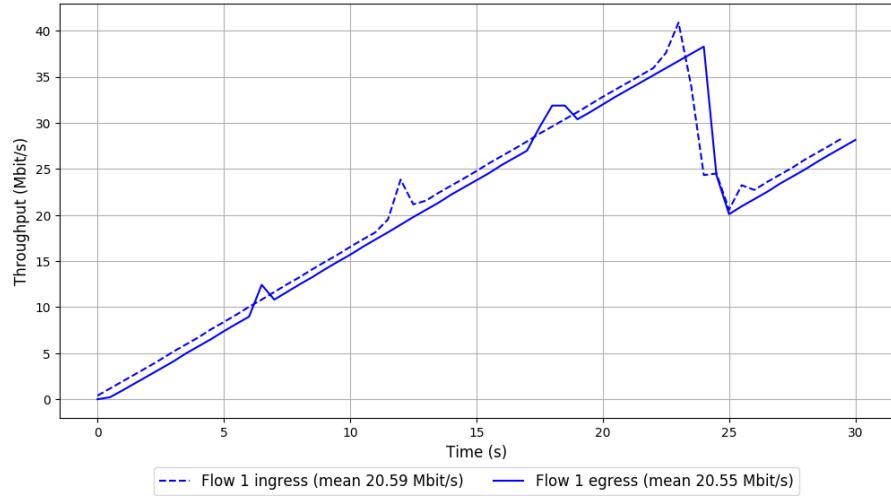


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-07-12 09:17:47
End at: 2019-07-12 09:18:17
Local clock offset: 0.017 ms
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2019-07-12 13:08:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.55 Mbit/s
95th percentile per-packet one-way delay: 61.592 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 20.55 Mbit/s
95th percentile per-packet one-way delay: 61.592 ms
Loss rate: 0.58%
```

Run 1: Report of LEDBAT — Data Link

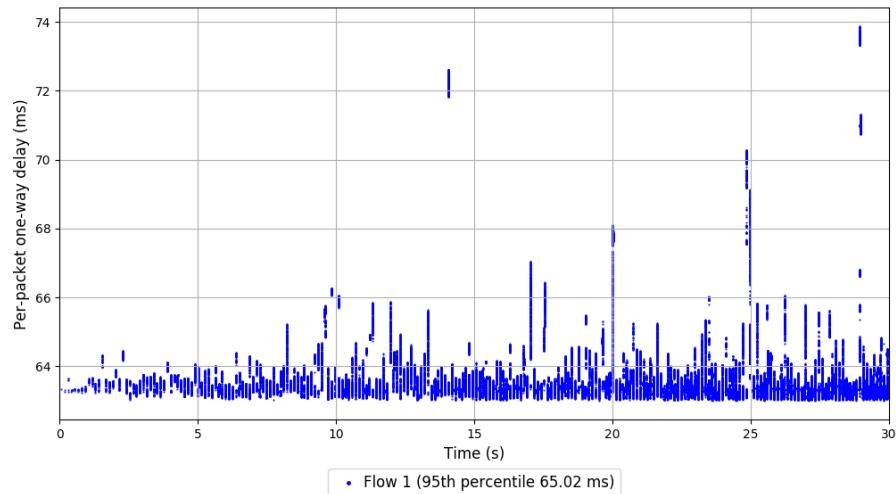
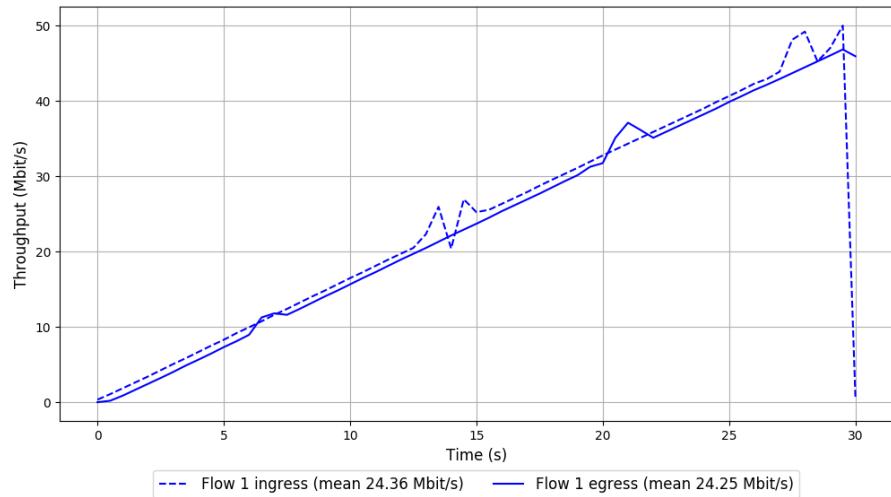


Run 2: Statistics of LEDBAT

```
Start at: 2019-07-12 09:53:04
End at: 2019-07-12 09:53:34
Local clock offset: -0.016 ms
Remote clock offset: -0.346 ms

# Below is generated by plot.py at 2019-07-12 13:08:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.25 Mbit/s
95th percentile per-packet one-way delay: 65.015 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 24.25 Mbit/s
95th percentile per-packet one-way delay: 65.015 ms
Loss rate: 0.82%
```

Run 2: Report of LEDBAT — Data Link

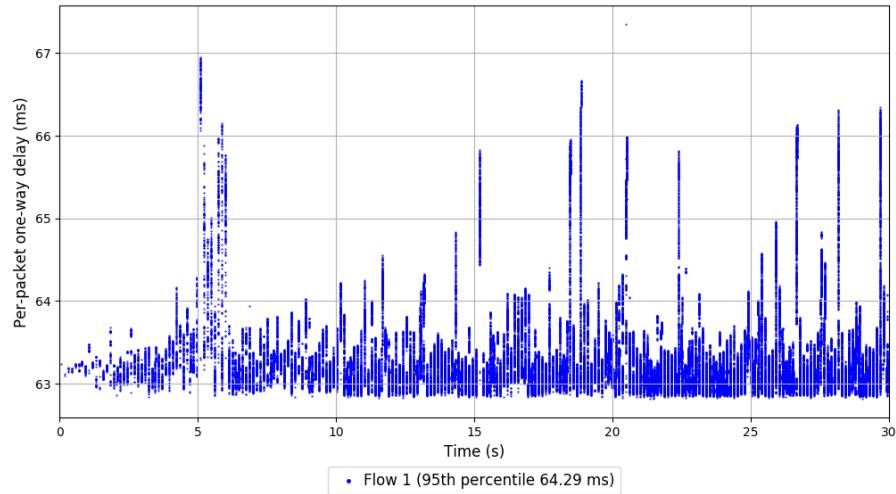
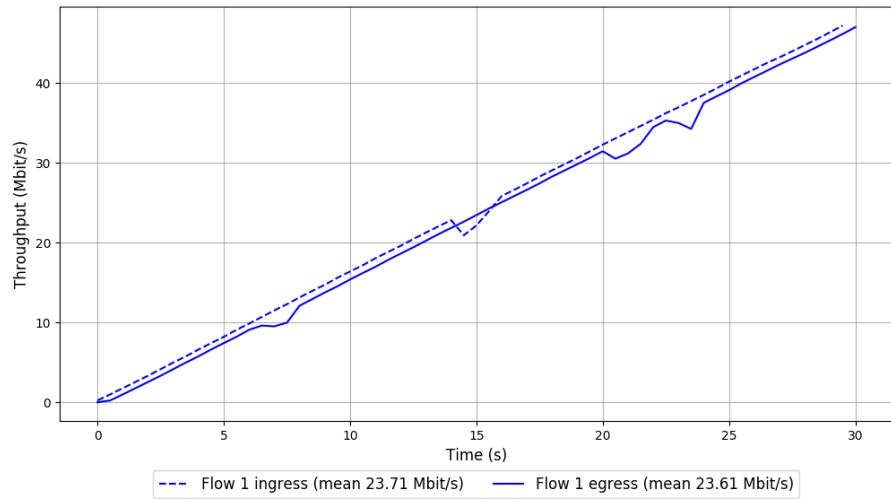


Run 3: Statistics of LEDBAT

```
Start at: 2019-07-12 10:28:08
End at: 2019-07-12 10:28:38
Local clock offset: -0.087 ms
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2019-07-12 13:08:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.61 Mbit/s
95th percentile per-packet one-way delay: 64.289 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 23.61 Mbit/s
95th percentile per-packet one-way delay: 64.289 ms
Loss rate: 0.83%
```

Run 3: Report of LEDBAT — Data Link

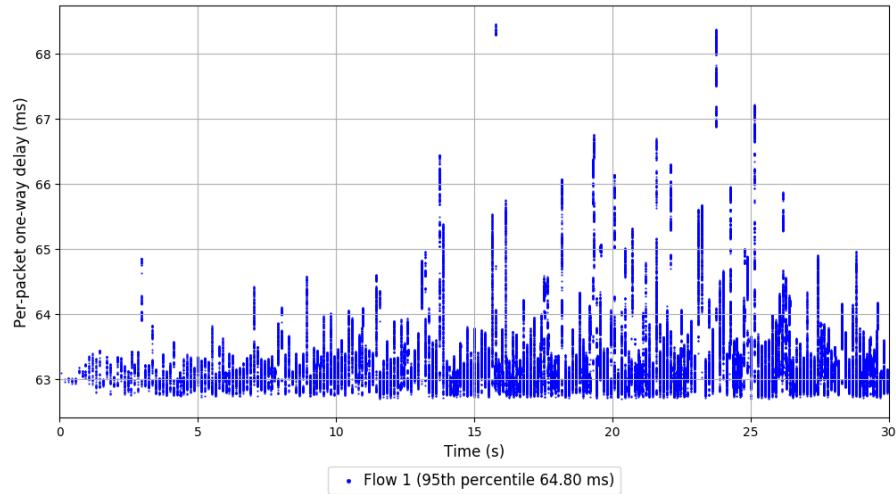
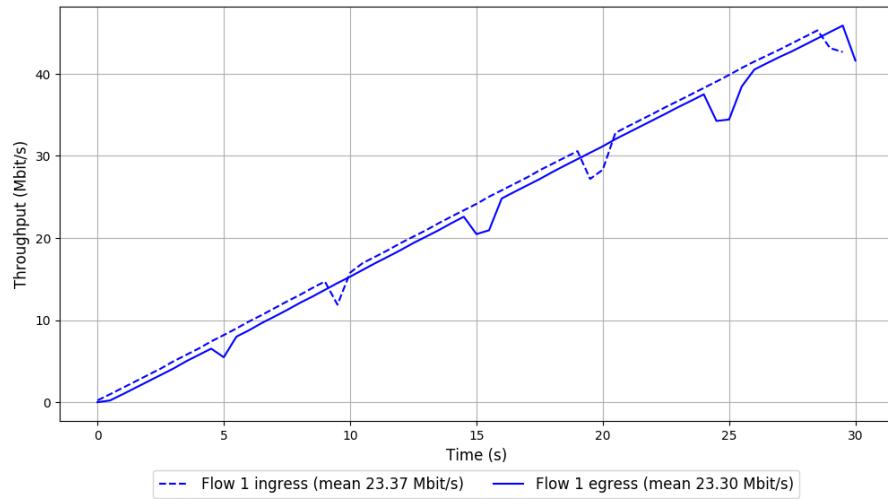


Run 4: Statistics of LEDBAT

```
Start at: 2019-07-12 11:03:24
End at: 2019-07-12 11:03:54
Local clock offset: -0.004 ms
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2019-07-12 13:08:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.30 Mbit/s
95th percentile per-packet one-way delay: 64.798 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 23.30 Mbit/s
95th percentile per-packet one-way delay: 64.798 ms
Loss rate: 0.69%
```

Run 4: Report of LEDBAT — Data Link

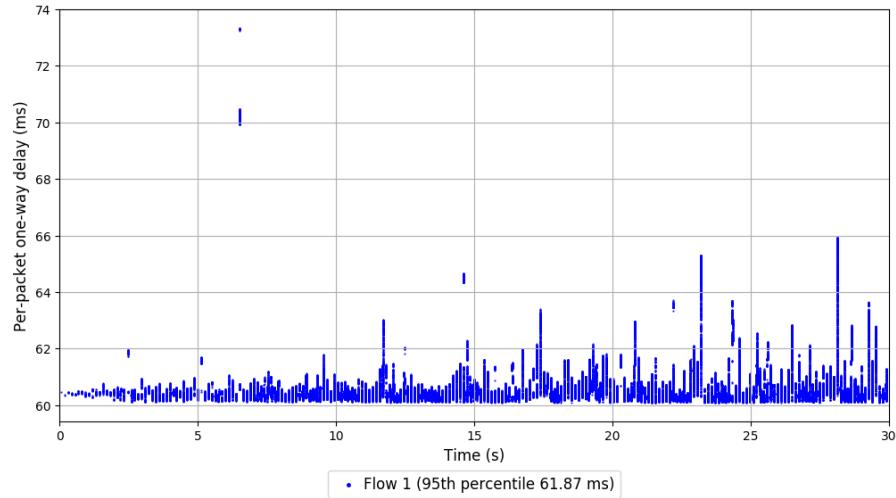
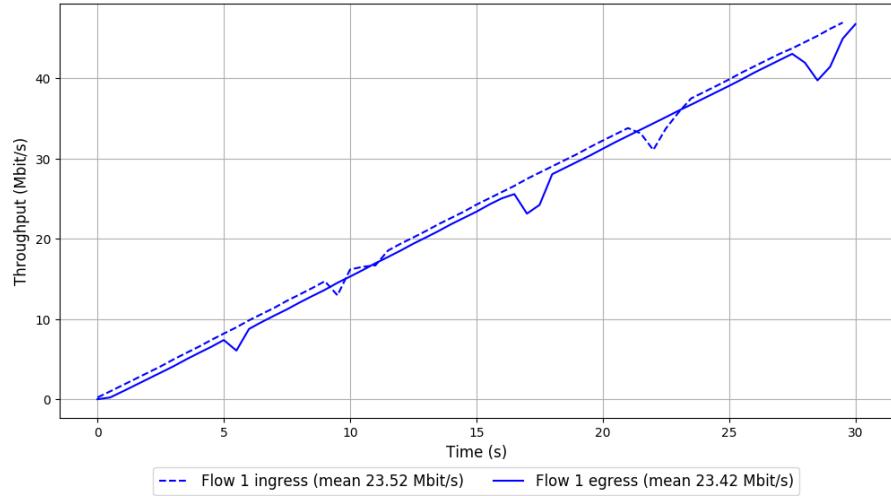


Run 5: Statistics of LEDBAT

```
Start at: 2019-07-12 11:38:33
End at: 2019-07-12 11:39:03
Local clock offset: -0.05 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-07-12 13:08:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 61.868 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 61.868 ms
Loss rate: 0.84%
```

Run 5: Report of LEDBAT — Data Link

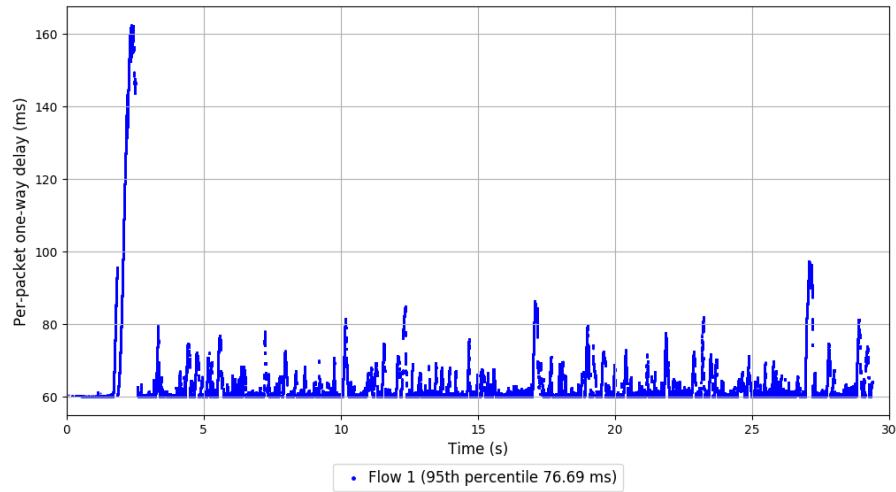
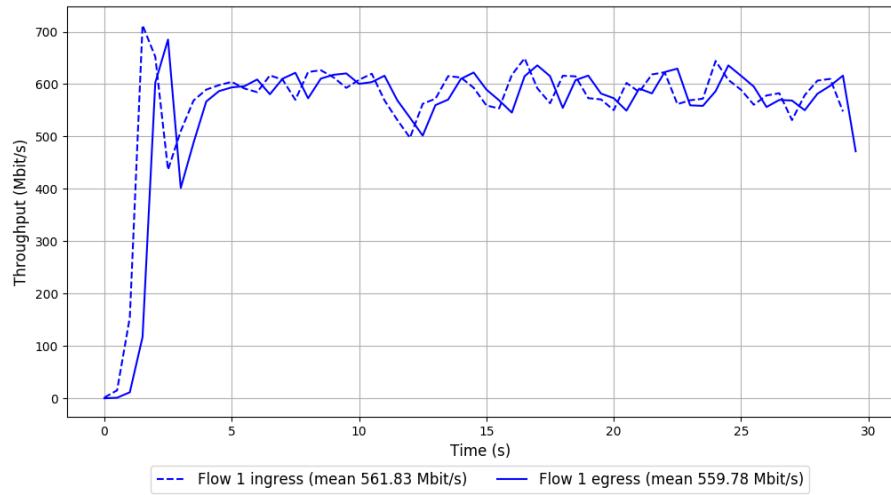


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 08:55:41
End at: 2019-07-12 08:56:11
Local clock offset: -0.001 ms
Remote clock offset: -0.292 ms

# Below is generated by plot.py at 2019-07-12 13:08:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 559.78 Mbit/s
95th percentile per-packet one-way delay: 76.689 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 559.78 Mbit/s
95th percentile per-packet one-way delay: 76.689 ms
Loss rate: 0.77%
```

Run 1: Report of Muses_DecisionTree — Data Link

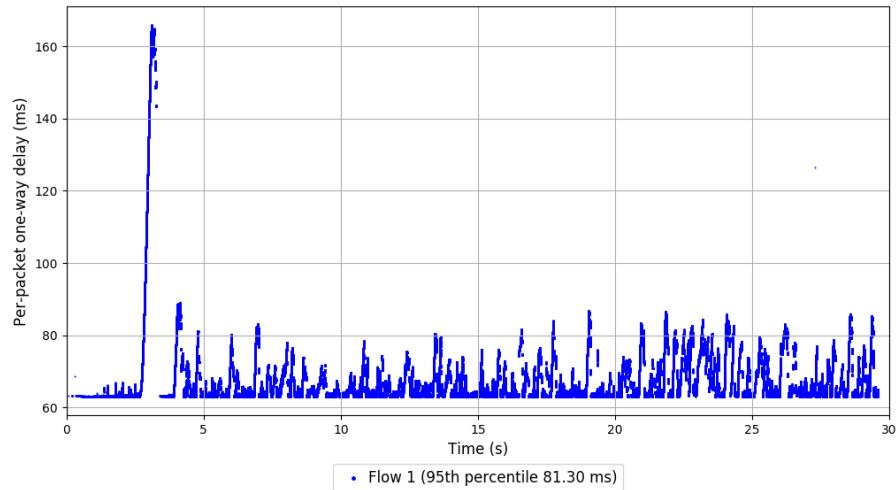
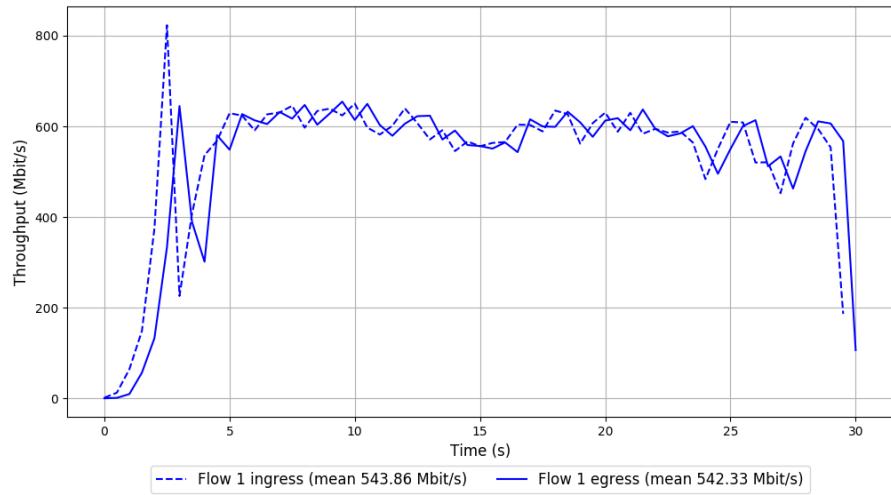


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 09:30:41
End at: 2019-07-12 09:31:11
Local clock offset: -0.001 ms
Remote clock offset: -0.274 ms

# Below is generated by plot.py at 2019-07-12 13:09:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 542.33 Mbit/s
95th percentile per-packet one-way delay: 81.298 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 542.33 Mbit/s
95th percentile per-packet one-way delay: 81.298 ms
Loss rate: 0.70%
```

Run 2: Report of Muses_DecisionTree — Data Link

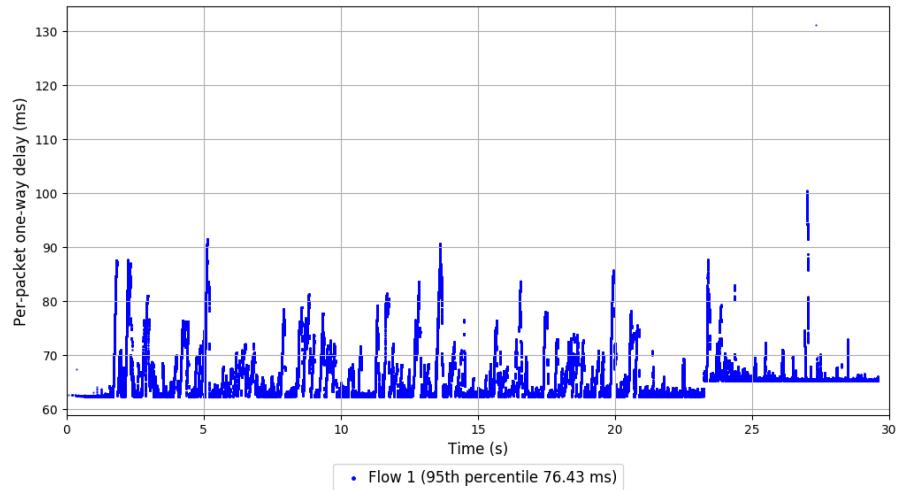
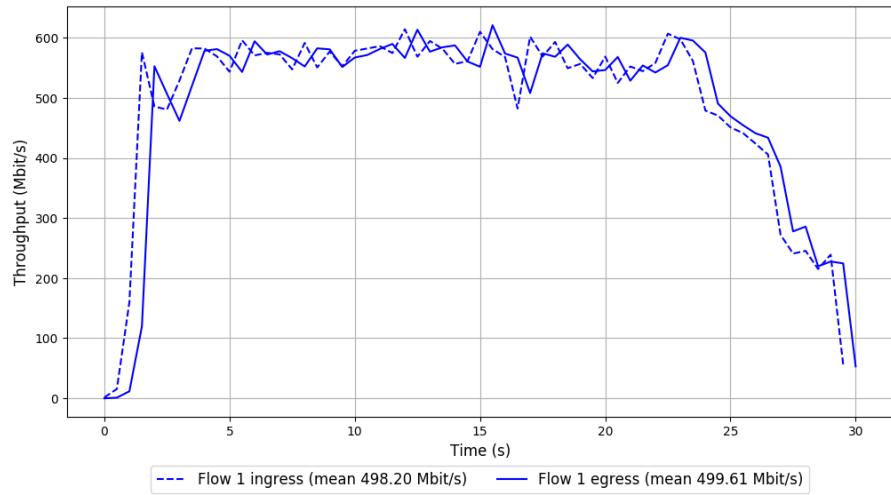


```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 10:05:55
End at: 2019-07-12 10:06:25
Local clock offset: -0.068 ms
Remote clock offset: -0.251 ms

# Below is generated by plot.py at 2019-07-12 13:09:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 499.61 Mbit/s
95th percentile per-packet one-way delay: 76.426 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 499.61 Mbit/s
95th percentile per-packet one-way delay: 76.426 ms
Loss rate: 0.15%
```

Run 3: Report of Muses_DecisionTree — Data Link

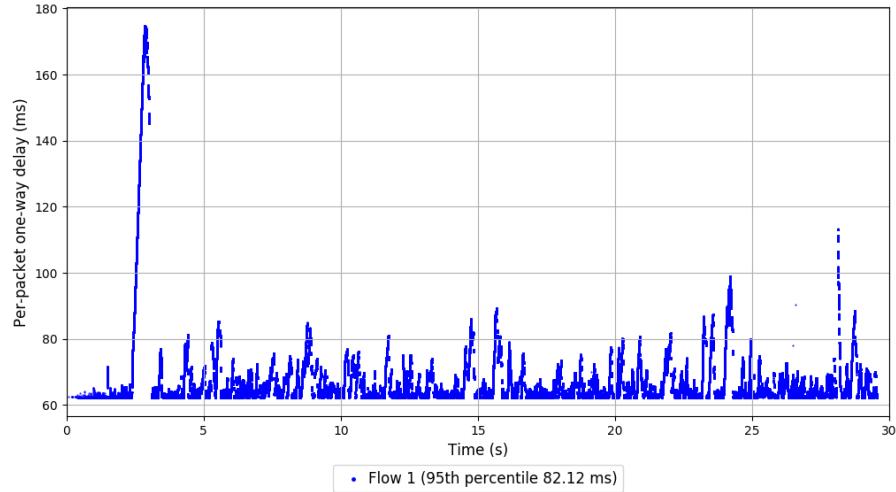
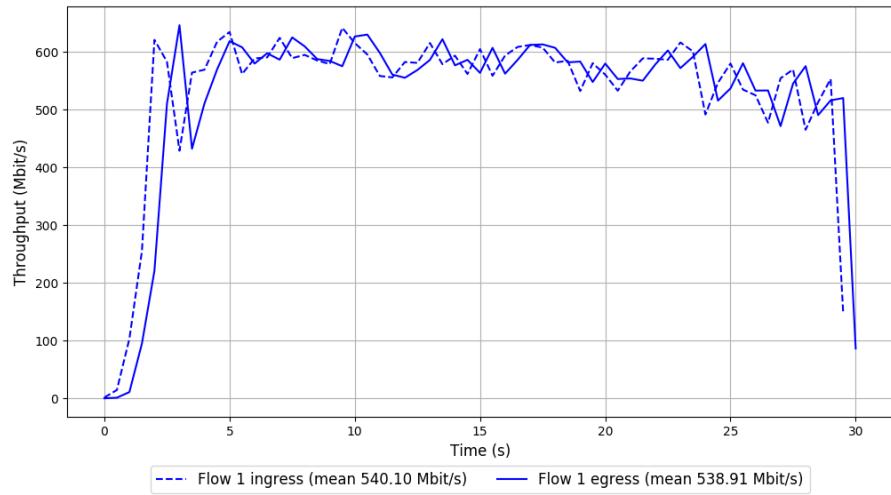


```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 10:41:08
End at: 2019-07-12 10:41:38
Local clock offset: -0.032 ms
Remote clock offset: -0.268 ms

# Below is generated by plot.py at 2019-07-12 13:11:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 538.91 Mbit/s
95th percentile per-packet one-way delay: 82.116 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 538.91 Mbit/s
95th percentile per-packet one-way delay: 82.116 ms
Loss rate: 0.64%
```

Run 4: Report of Muses_DecisionTree — Data Link

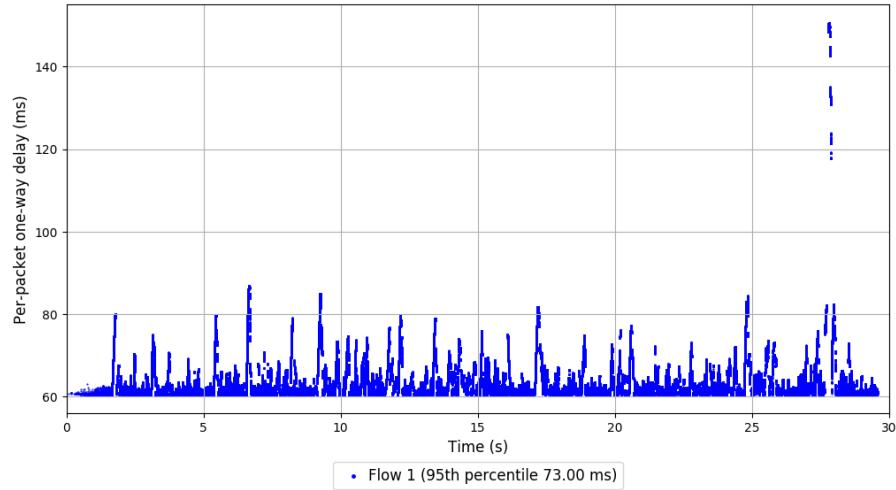
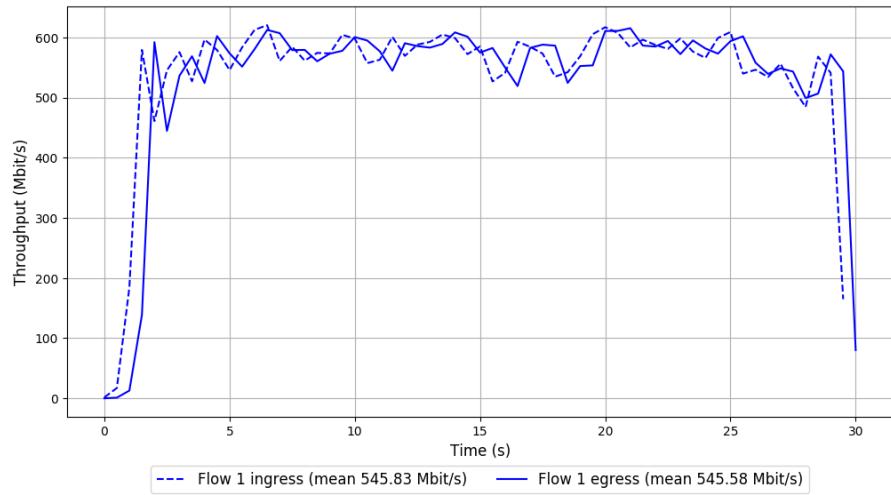


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 11:16:25
End at: 2019-07-12 11:16:55
Local clock offset: -0.014 ms
Remote clock offset: -0.819 ms

# Below is generated by plot.py at 2019-07-12 13:17:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 545.58 Mbit/s
95th percentile per-packet one-way delay: 72.997 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 545.58 Mbit/s
95th percentile per-packet one-way delay: 72.997 ms
Loss rate: 0.45%
```

Run 5: Report of Muses_DecisionTree — Data Link

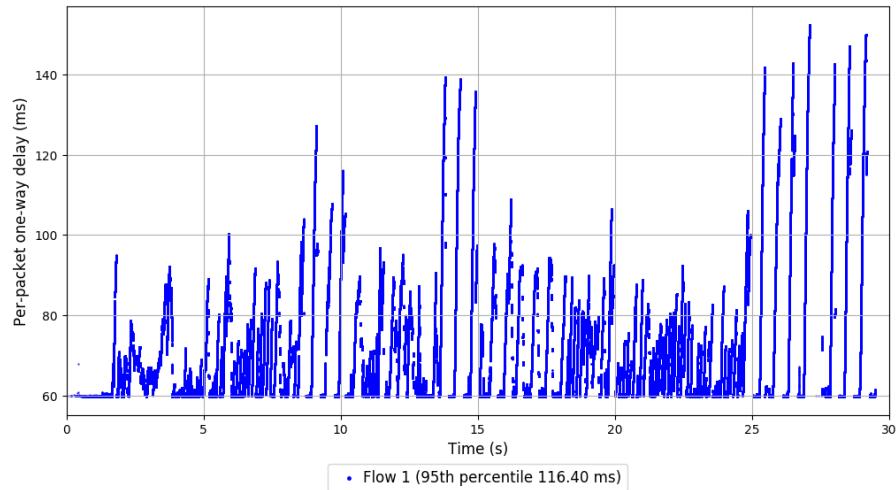
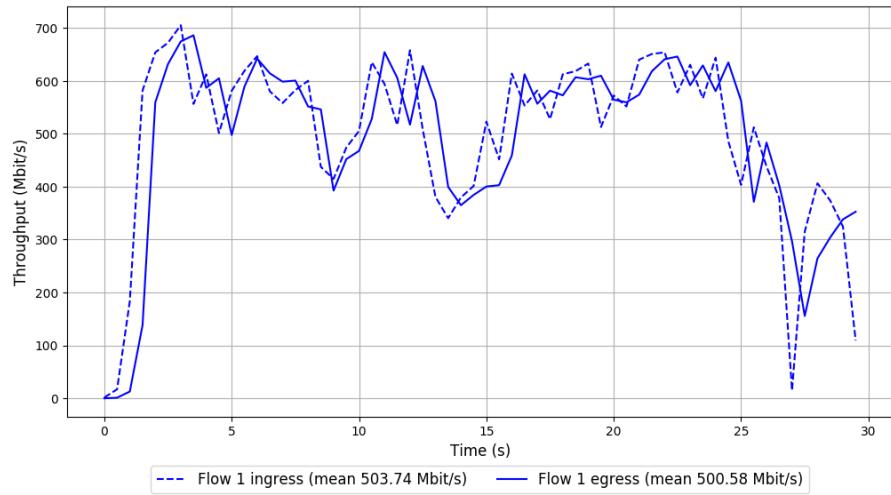


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 08:52:44
End at: 2019-07-12 08:53:14
Local clock offset: 0.015 ms
Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2019-07-12 13:17:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 500.58 Mbit/s
95th percentile per-packet one-way delay: 116.399 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 500.58 Mbit/s
95th percentile per-packet one-way delay: 116.399 ms
Loss rate: 1.03%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

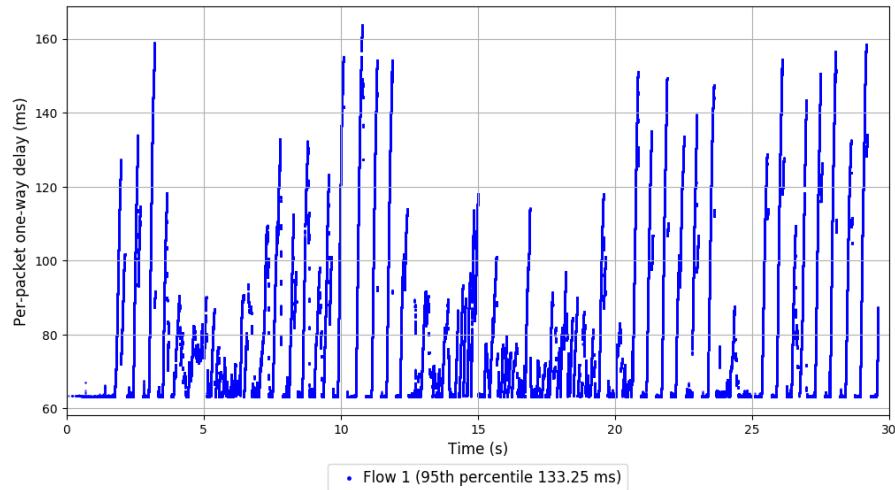
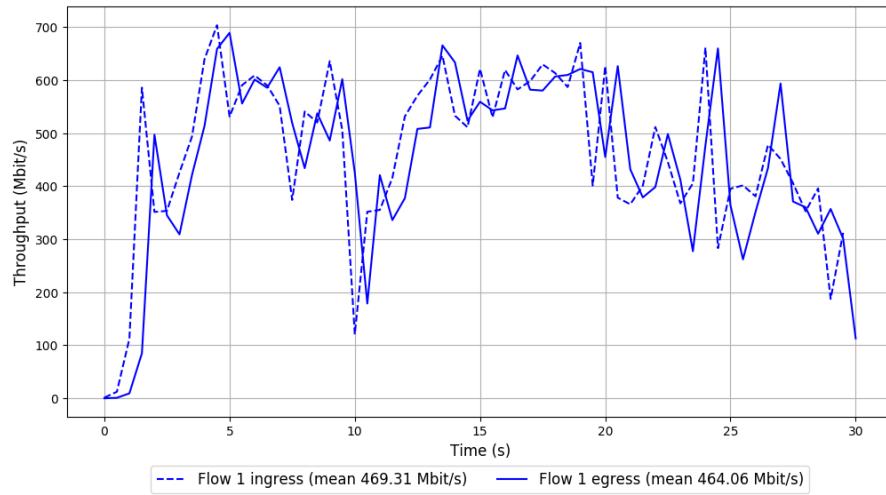


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 09:27:35
End at: 2019-07-12 09:28:05
Local clock offset: 0.007 ms
Remote clock offset: -0.349 ms

# Below is generated by plot.py at 2019-07-12 13:17:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 464.06 Mbit/s
95th percentile per-packet one-way delay: 133.246 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 464.06 Mbit/s
95th percentile per-packet one-way delay: 133.246 ms
Loss rate: 1.53%
```

Run 2: Report of Muses_DecisionTreeH0 — Data Link

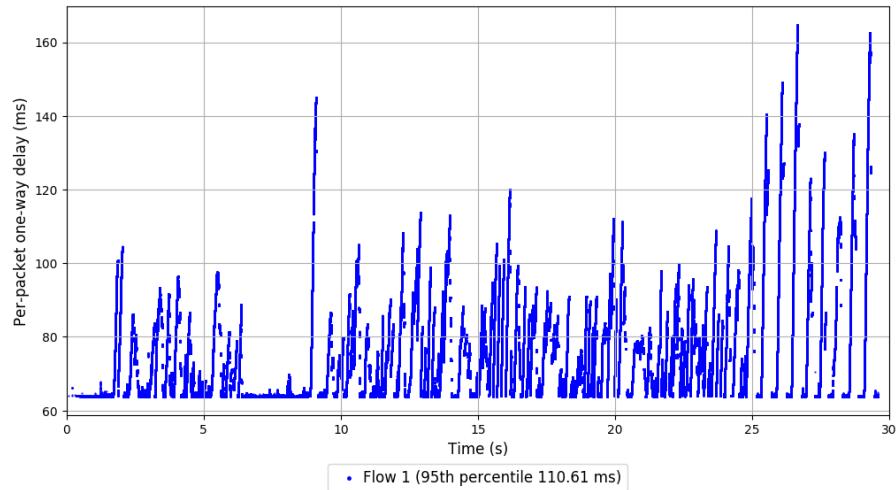
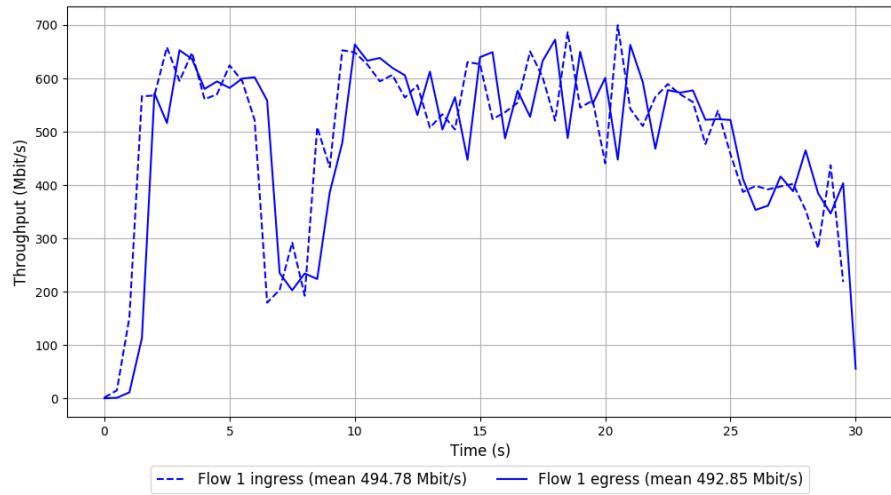


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 10:02:49
End at: 2019-07-12 10:03:19
Local clock offset: -0.035 ms
Remote clock offset: -1.078 ms

# Below is generated by plot.py at 2019-07-12 13:17:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 492.85 Mbit/s
95th percentile per-packet one-way delay: 110.614 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 492.85 Mbit/s
95th percentile per-packet one-way delay: 110.614 ms
Loss rate: 0.78%
```

Run 3: Report of Muses_DecisionTreeH0 — Data Link

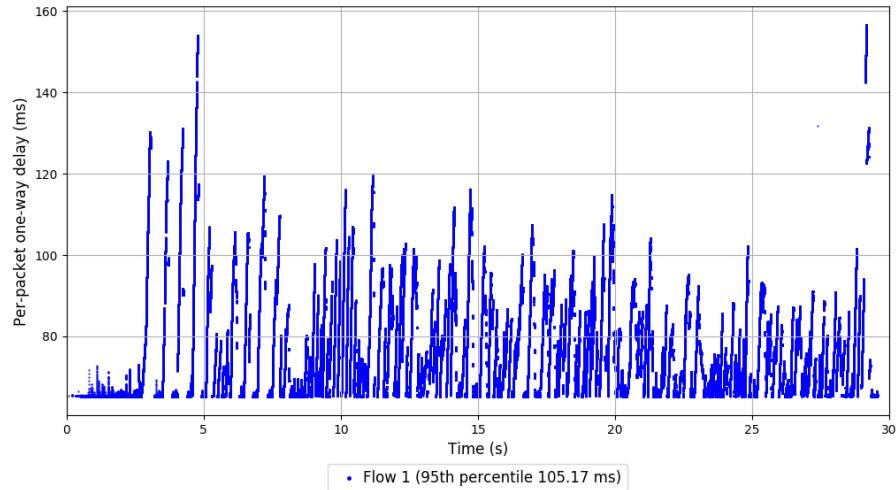
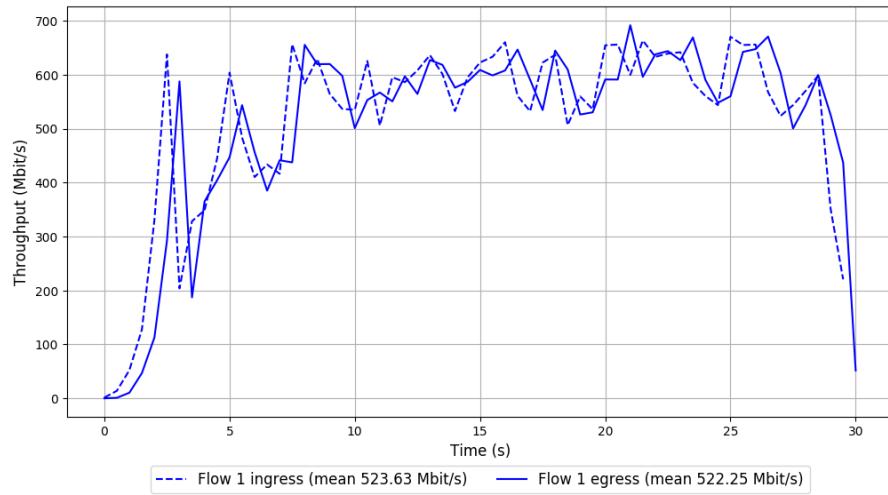


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 10:38:01
End at: 2019-07-12 10:38:31
Local clock offset: -0.025 ms
Remote clock offset: -0.293 ms

# Below is generated by plot.py at 2019-07-12 13:17:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 522.25 Mbit/s
95th percentile per-packet one-way delay: 105.168 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 522.25 Mbit/s
95th percentile per-packet one-way delay: 105.168 ms
Loss rate: 0.69%
```

Run 4: Report of Muses_DecisionTreeH0 — Data Link

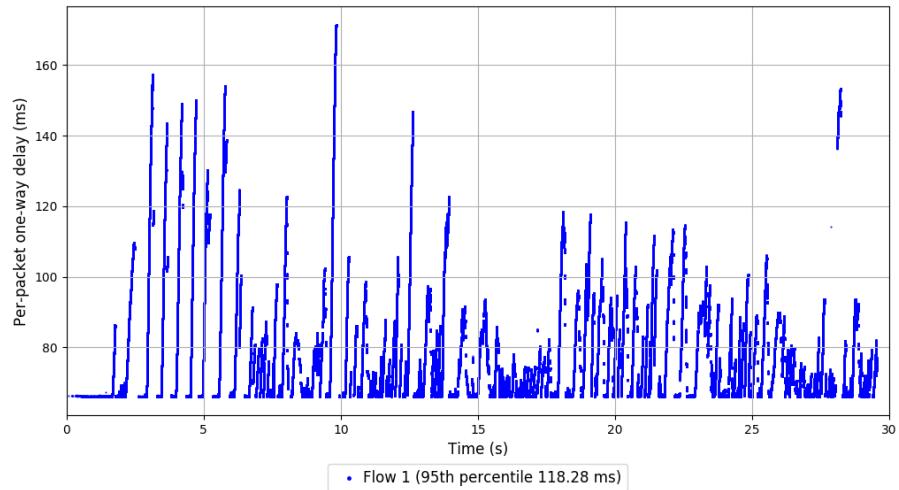
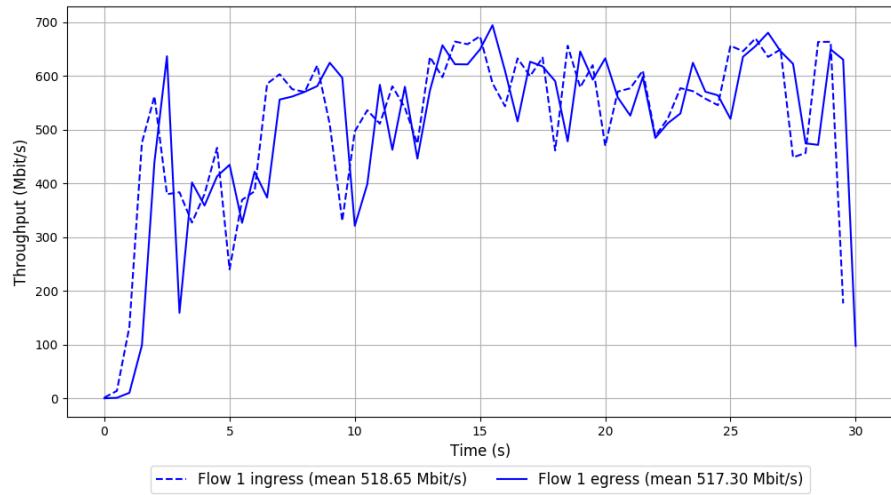


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 11:13:18
End at: 2019-07-12 11:13:48
Local clock offset: -0.06 ms
Remote clock offset: -0.828 ms

# Below is generated by plot.py at 2019-07-12 13:17:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 517.30 Mbit/s
95th percentile per-packet one-way delay: 118.284 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 517.30 Mbit/s
95th percentile per-packet one-way delay: 118.284 ms
Loss rate: 0.68%
```

Run 5: Report of Muses_DecisionTreeH0 — Data Link

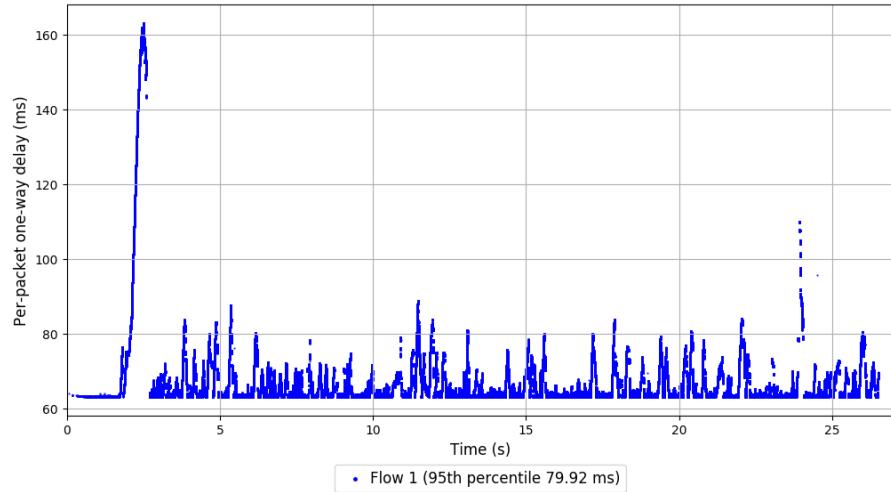
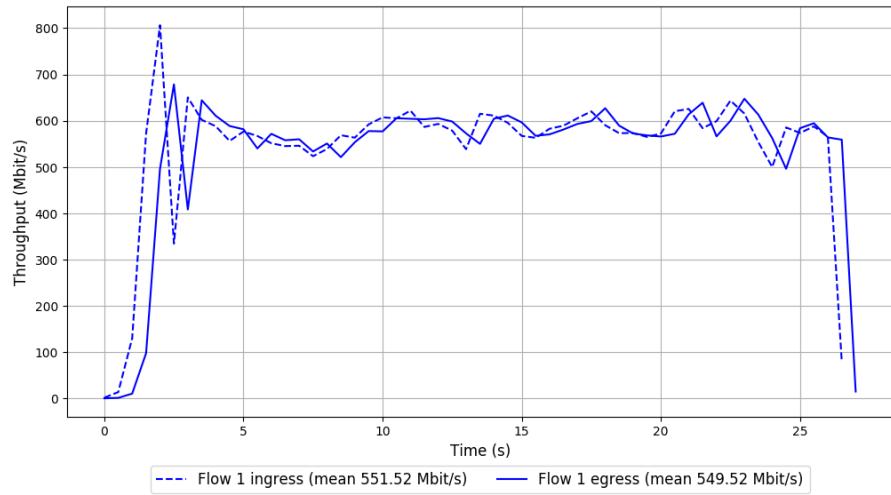


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 08:51:11
End at: 2019-07-12 08:51:41
Local clock offset: 0.013 ms
Remote clock offset: -0.446 ms

# Below is generated by plot.py at 2019-07-12 13:17:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 549.52 Mbit/s
95th percentile per-packet one-way delay: 79.916 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 549.52 Mbit/s
95th percentile per-packet one-way delay: 79.916 ms
Loss rate: 0.83%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

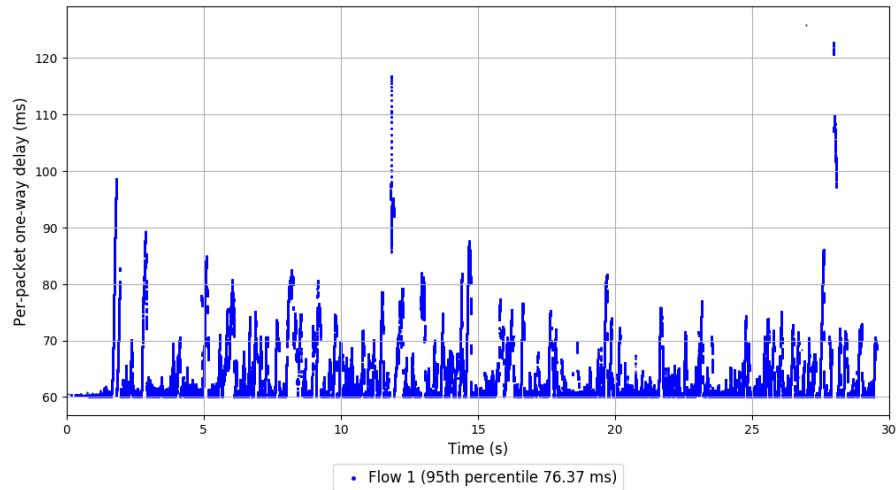
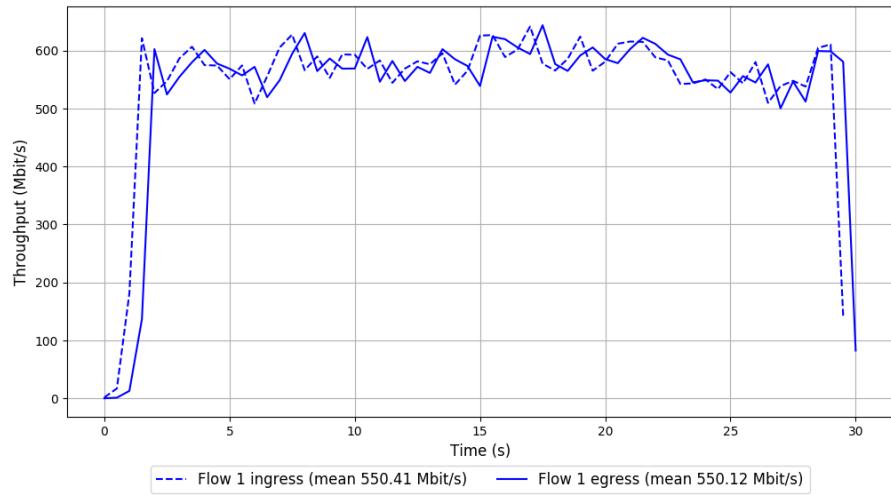


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 09:25:59
End at: 2019-07-12 09:26:29
Local clock offset: 0.001 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-07-12 13:20:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 550.12 Mbit/s
95th percentile per-packet one-way delay: 76.366 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 550.12 Mbit/s
95th percentile per-packet one-way delay: 76.366 ms
Loss rate: 0.46%
```

Run 2: Report of Muses_DecisionTreeR0 — Data Link

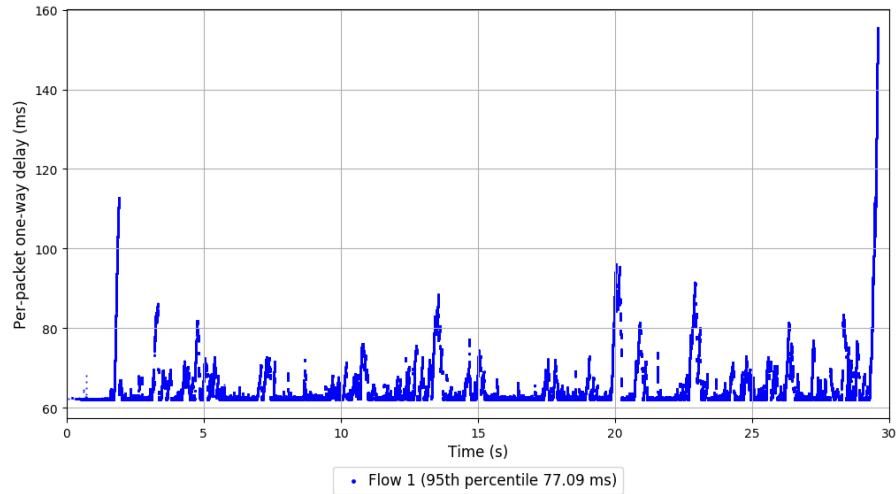
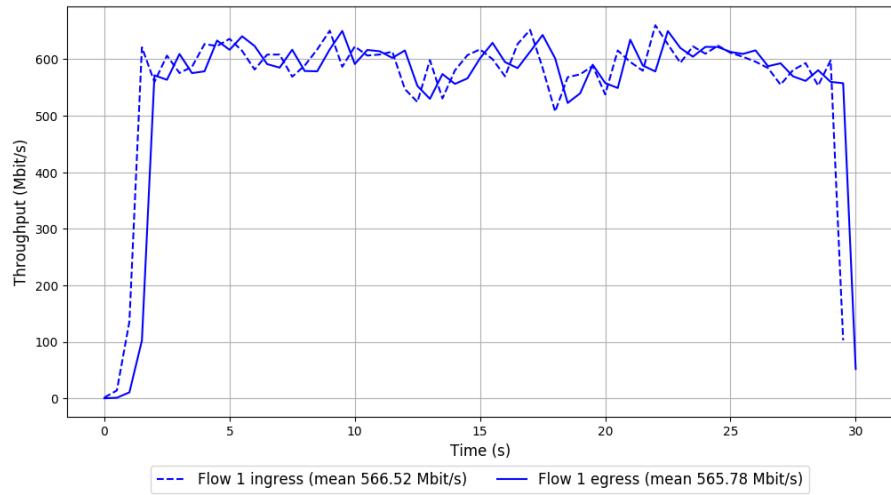


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 10:01:14
End at: 2019-07-12 10:01:44
Local clock offset: -0.022 ms
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2019-07-12 13:25:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 565.78 Mbit/s
95th percentile per-packet one-way delay: 77.089 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 565.78 Mbit/s
95th percentile per-packet one-way delay: 77.089 ms
Loss rate: 0.51%
```

Run 3: Report of Muses_DecisionTreeR0 — Data Link

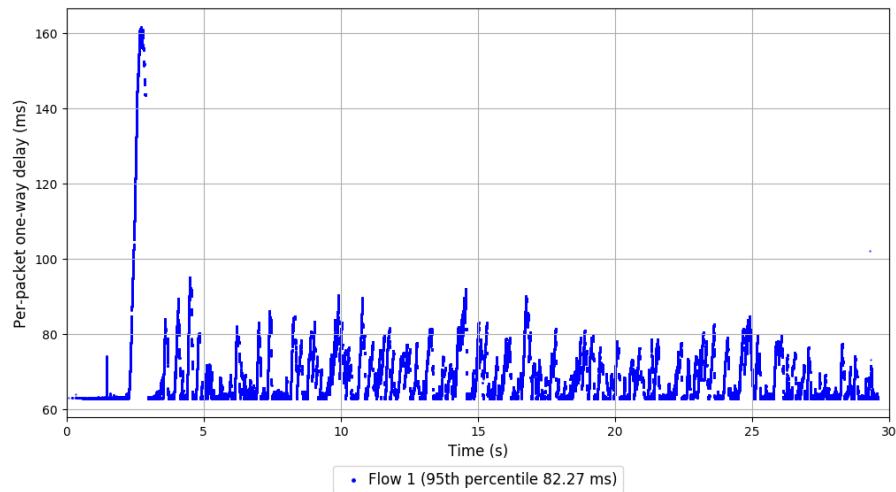
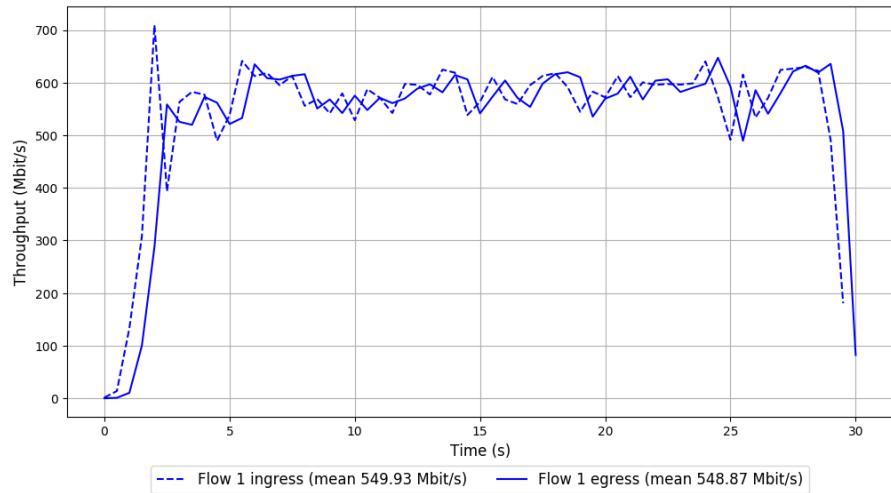


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 10:36:26
End at: 2019-07-12 10:36:56
Local clock offset: -0.047 ms
Remote clock offset: -0.244 ms

# Below is generated by plot.py at 2019-07-12 13:25:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 548.87 Mbit/s
95th percentile per-packet one-way delay: 82.270 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 548.87 Mbit/s
95th percentile per-packet one-way delay: 82.270 ms
Loss rate: 0.61%
```

Run 4: Report of Muses_DecisionTreeR0 — Data Link

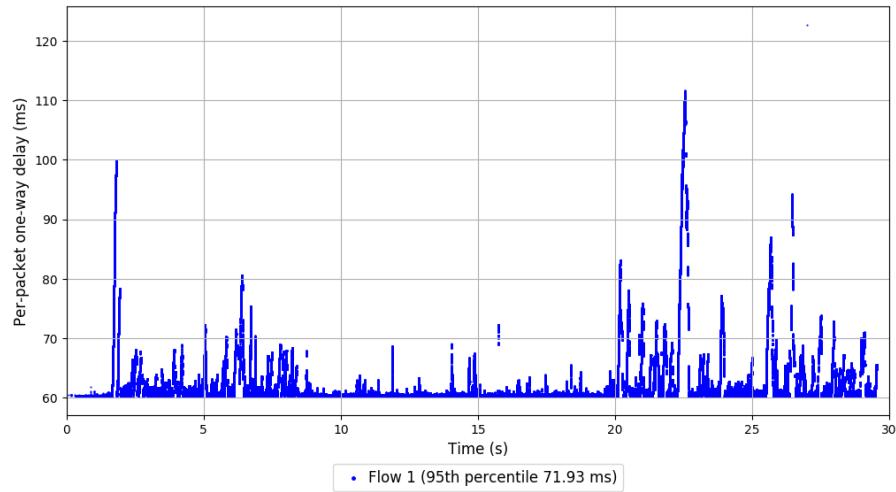
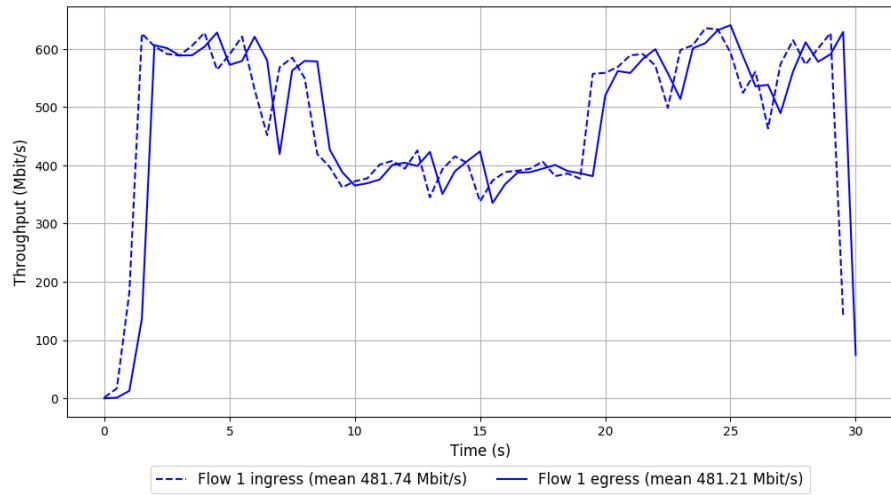


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 11:11:46
End at: 2019-07-12 11:12:17
Local clock offset: -0.034 ms
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2019-07-12 13:25:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 481.21 Mbit/s
95th percentile per-packet one-way delay: 71.934 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 481.21 Mbit/s
95th percentile per-packet one-way delay: 71.934 ms
Loss rate: 0.52%
```

Run 5: Report of Muses_DecisionTreeR0 — Data Link

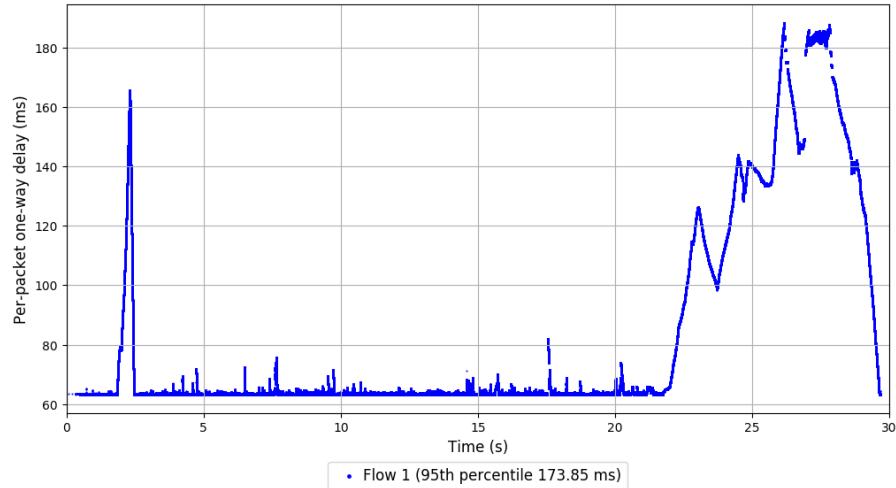
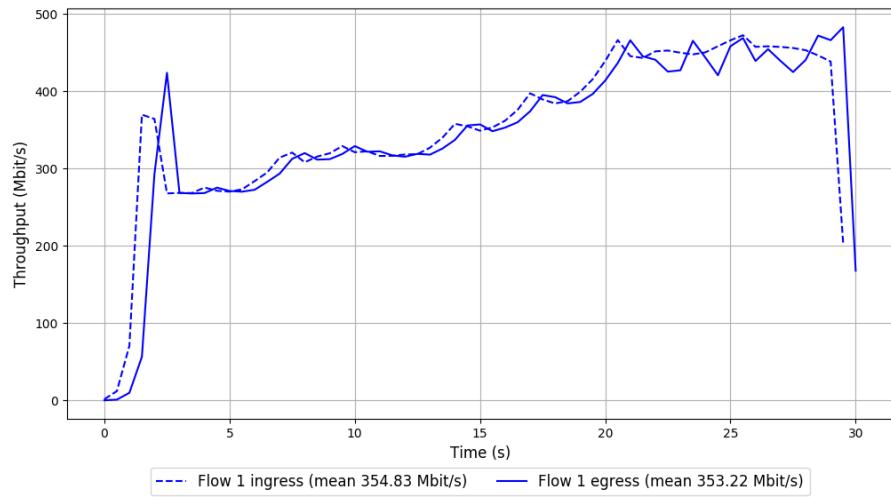


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-07-12 09:18:58
End at: 2019-07-12 09:19:28
Local clock offset: -0.012 ms
Remote clock offset: -1.031 ms

# Below is generated by plot.py at 2019-07-12 13:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 353.22 Mbit/s
95th percentile per-packet one-way delay: 173.849 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 353.22 Mbit/s
95th percentile per-packet one-way delay: 173.849 ms
Loss rate: 0.86%
```

Run 1: Report of PCC-Allegro — Data Link

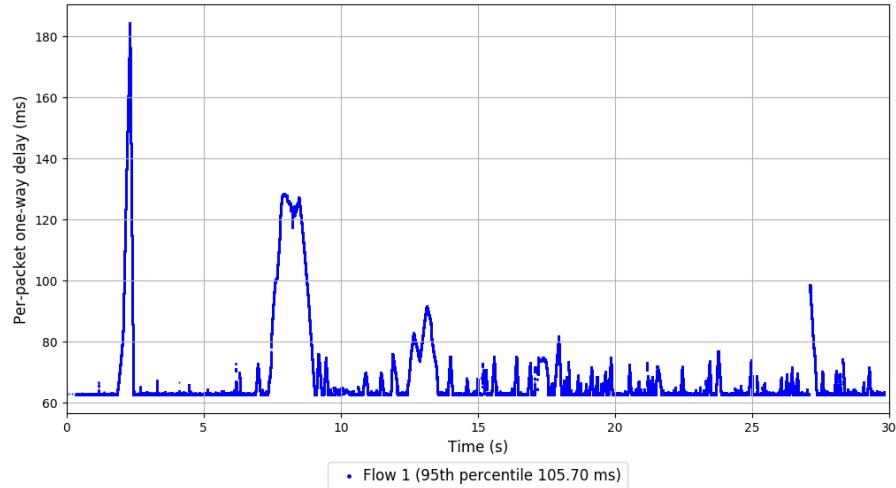
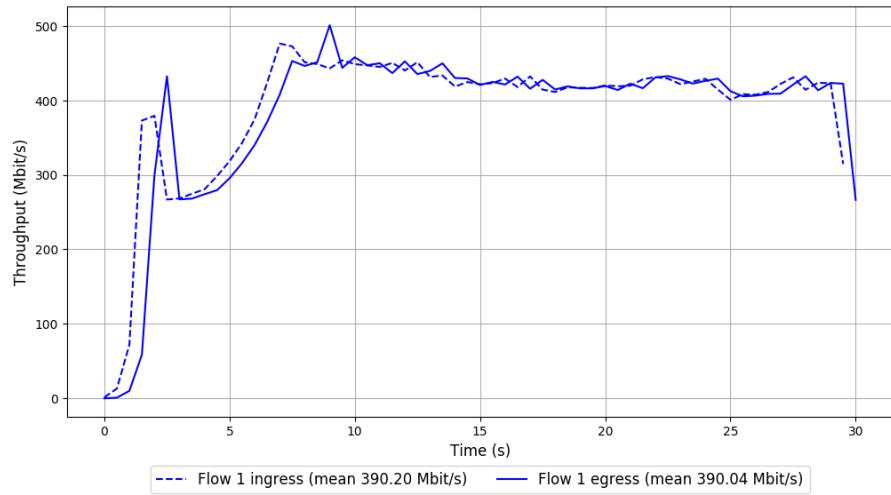


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-07-12 09:54:14
End at: 2019-07-12 09:54:44
Local clock offset: 0.009 ms
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2019-07-12 13:29:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.04 Mbit/s
95th percentile per-packet one-way delay: 105.696 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 390.04 Mbit/s
95th percentile per-packet one-way delay: 105.696 ms
Loss rate: 0.45%
```

Run 2: Report of PCC-Allegro — Data Link

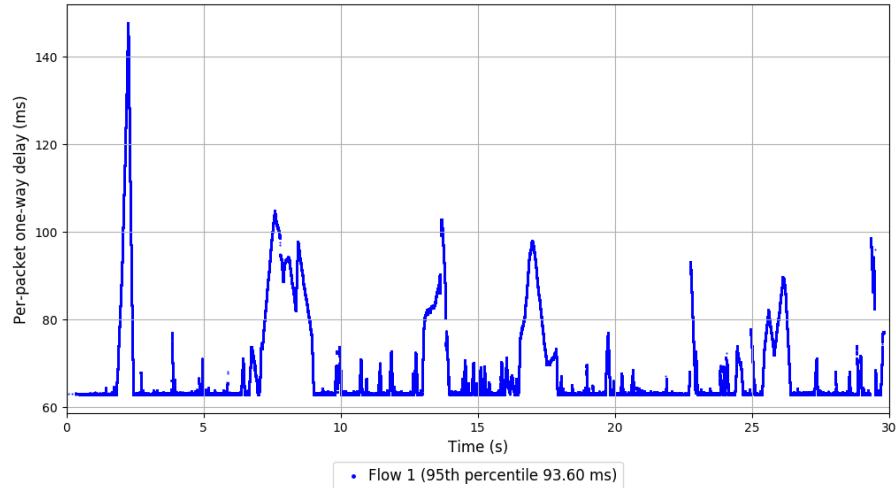
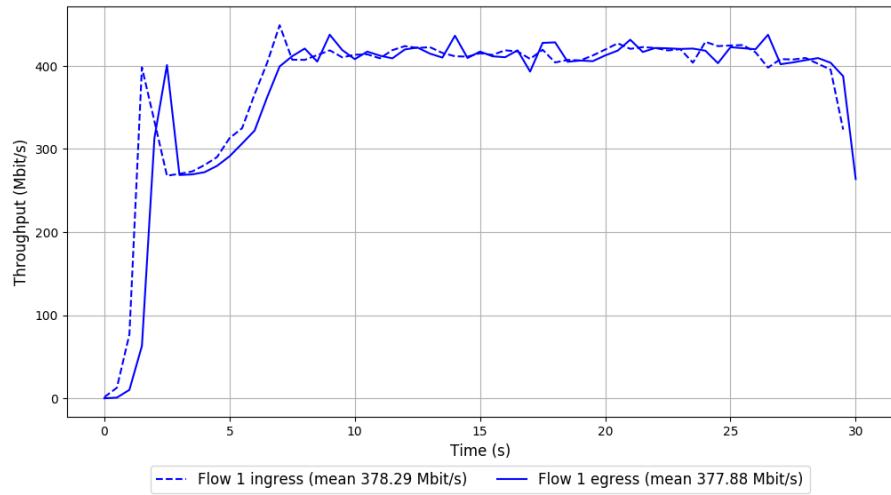


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-07-12 10:29:19
End at: 2019-07-12 10:29:49
Local clock offset: -0.104 ms
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2019-07-12 13:29:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 377.88 Mbit/s
95th percentile per-packet one-way delay: 93.599 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 377.88 Mbit/s
95th percentile per-packet one-way delay: 93.599 ms
Loss rate: 0.52%
```

Run 3: Report of PCC-Allegro — Data Link

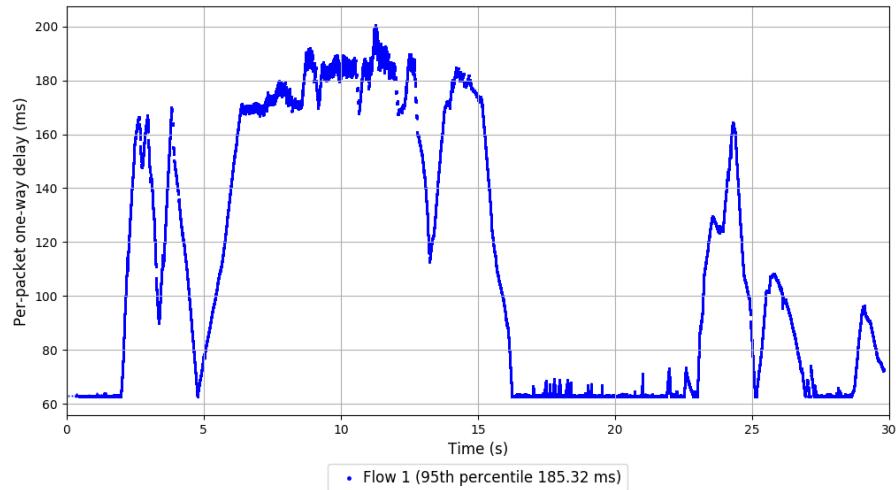
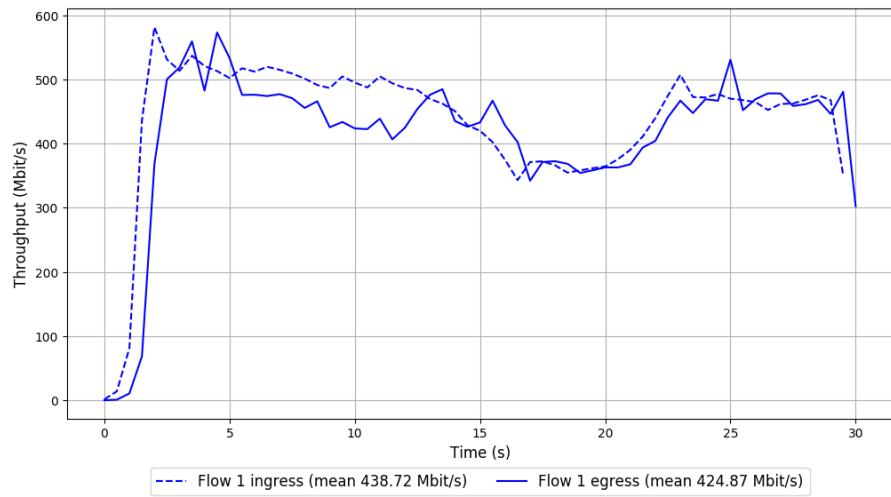


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-07-12 11:04:34
End at: 2019-07-12 11:05:05
Local clock offset: -0.005 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-07-12 13:32:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 424.87 Mbit/s
95th percentile per-packet one-way delay: 185.325 ms
Loss rate: 3.56%
-- Flow 1:
Average throughput: 424.87 Mbit/s
95th percentile per-packet one-way delay: 185.325 ms
Loss rate: 3.56%
```

Run 4: Report of PCC-Allegro — Data Link

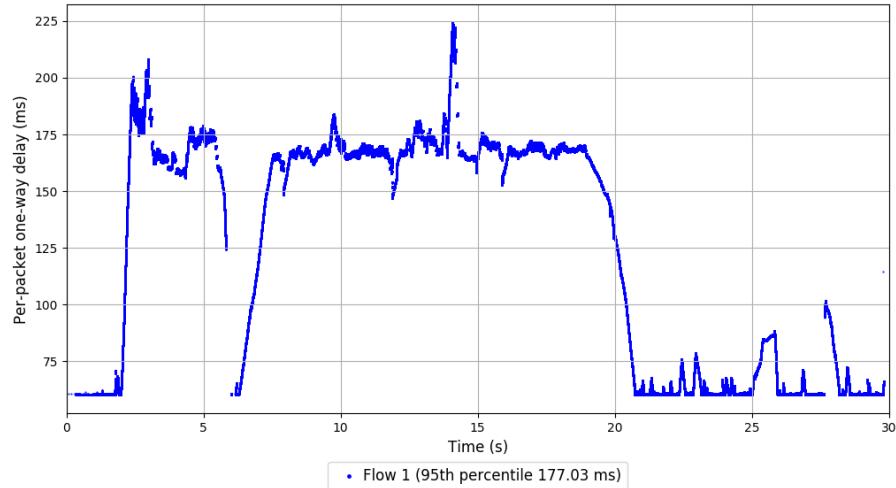
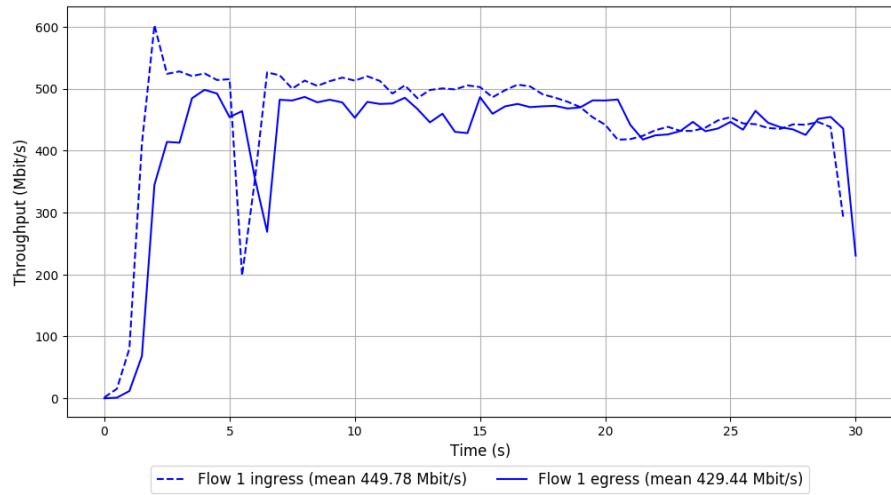


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-07-12 11:39:44
End at: 2019-07-12 11:40:14
Local clock offset: -0.037 ms
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2019-07-12 13:36:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 429.44 Mbit/s
95th percentile per-packet one-way delay: 177.027 ms
Loss rate: 4.92%
-- Flow 1:
Average throughput: 429.44 Mbit/s
95th percentile per-packet one-way delay: 177.027 ms
Loss rate: 4.92%
```

Run 5: Report of PCC-Allegro — Data Link

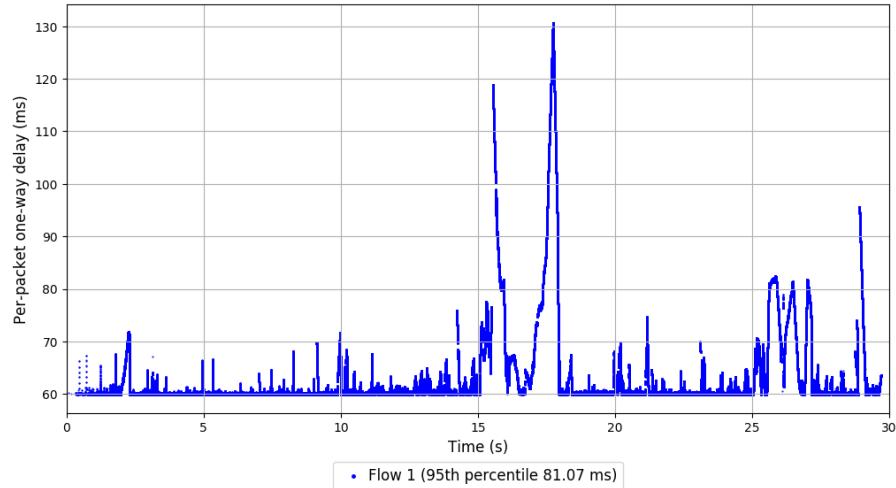
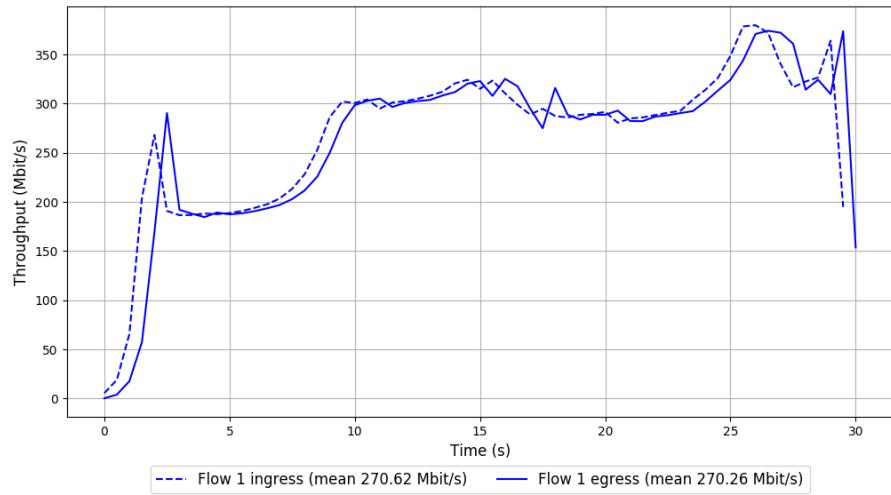


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-07-12 09:20:29
End at: 2019-07-12 09:20:59
Local clock offset: 0.008 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-07-12 13:36:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 270.26 Mbit/s
95th percentile per-packet one-way delay: 81.073 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 270.26 Mbit/s
95th percentile per-packet one-way delay: 81.073 ms
Loss rate: 0.54%
```

Run 1: Report of PCC-Expr — Data Link

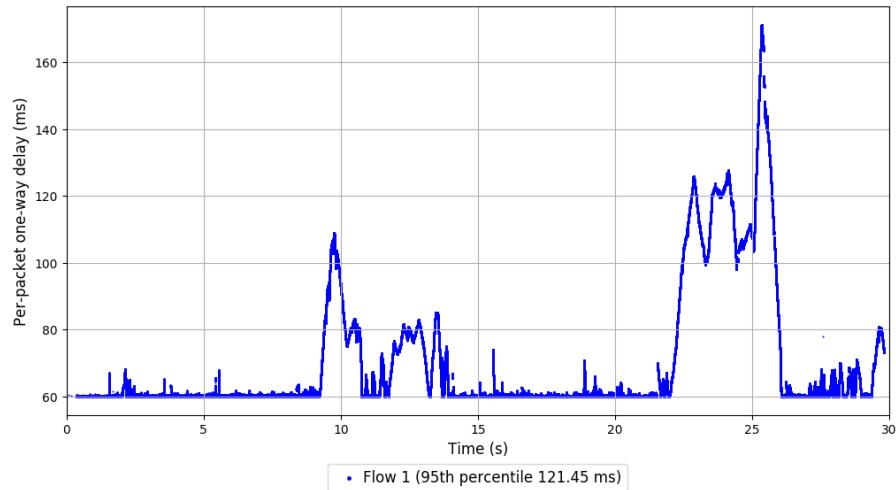
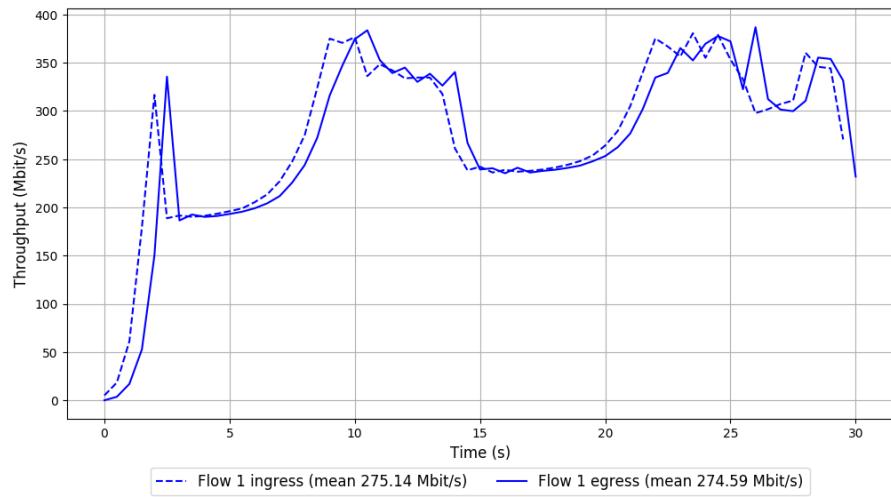


Run 2: Statistics of PCC-Expr

```
Start at: 2019-07-12 09:55:47
End at: 2019-07-12 09:56:17
Local clock offset: 0.013 ms
Remote clock offset: -0.304 ms

# Below is generated by plot.py at 2019-07-12 13:36:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 274.59 Mbit/s
95th percentile per-packet one-way delay: 121.446 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 274.59 Mbit/s
95th percentile per-packet one-way delay: 121.446 ms
Loss rate: 0.60%
```

Run 2: Report of PCC-Expr — Data Link

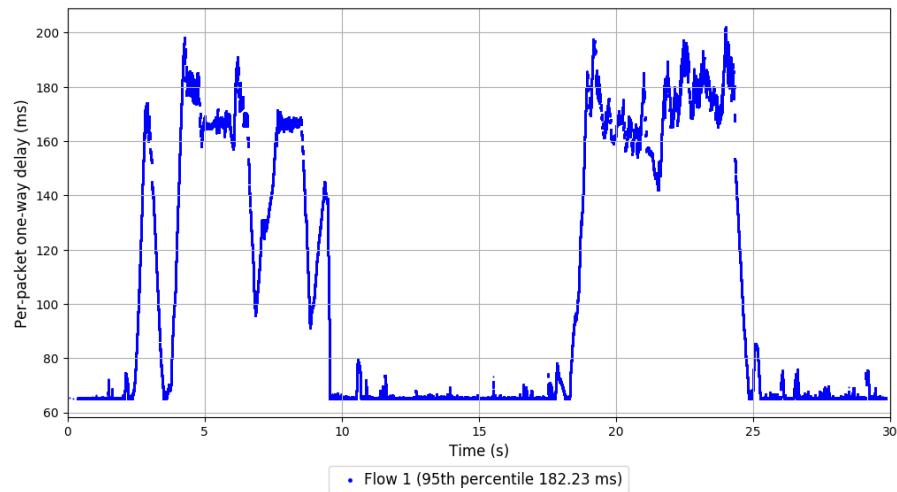
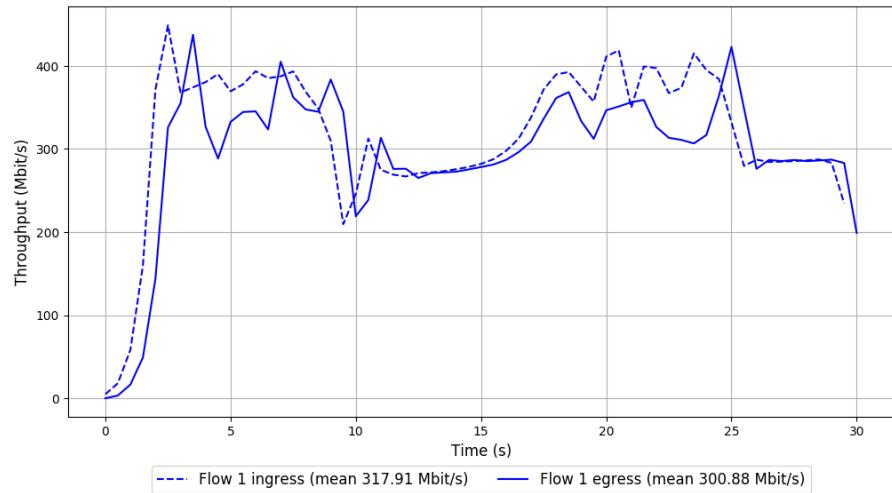


Run 3: Statistics of PCC-Expr

```
Start at: 2019-07-12 10:30:51
End at: 2019-07-12 10:31:21
Local clock offset: -0.058 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-07-12 13:36:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.88 Mbit/s
95th percentile per-packet one-way delay: 182.230 ms
Loss rate: 5.76%
-- Flow 1:
Average throughput: 300.88 Mbit/s
95th percentile per-packet one-way delay: 182.230 ms
Loss rate: 5.76%
```

Run 3: Report of PCC-Expr — Data Link

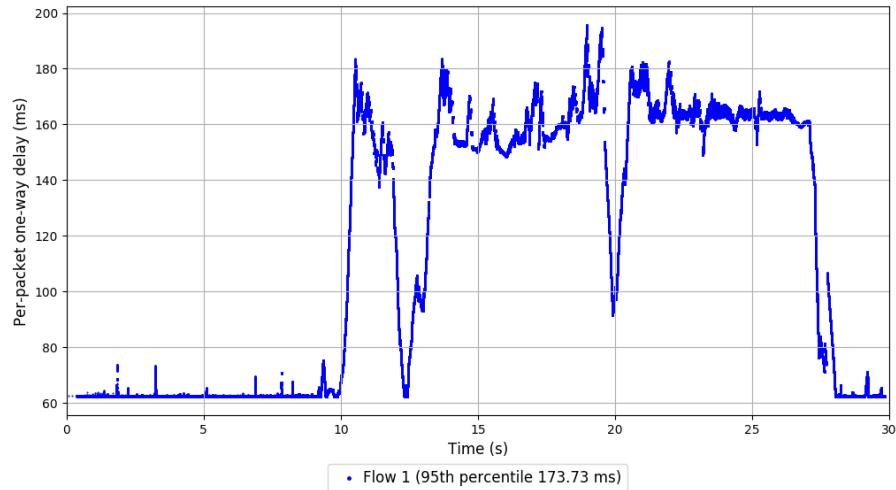
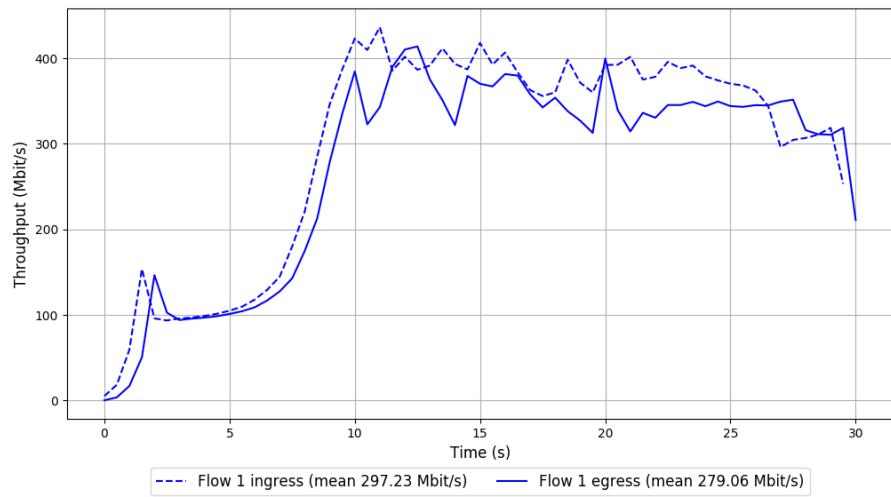


Run 4: Statistics of PCC-Expr

```
Start at: 2019-07-12 11:06:10
End at: 2019-07-12 11:06:40
Local clock offset: -0.004 ms
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2019-07-12 13:38:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 279.06 Mbit/s
95th percentile per-packet one-way delay: 173.732 ms
Loss rate: 6.50%
-- Flow 1:
Average throughput: 279.06 Mbit/s
95th percentile per-packet one-way delay: 173.732 ms
Loss rate: 6.50%
```

Run 4: Report of PCC-Expr — Data Link

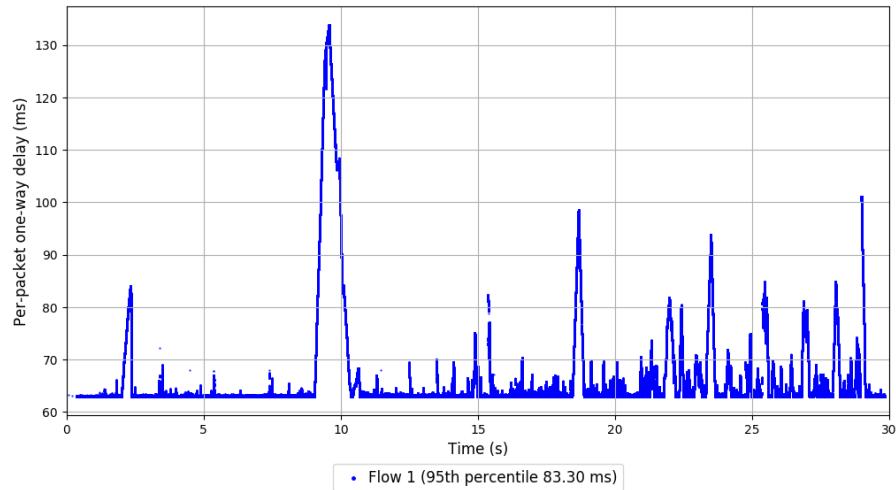
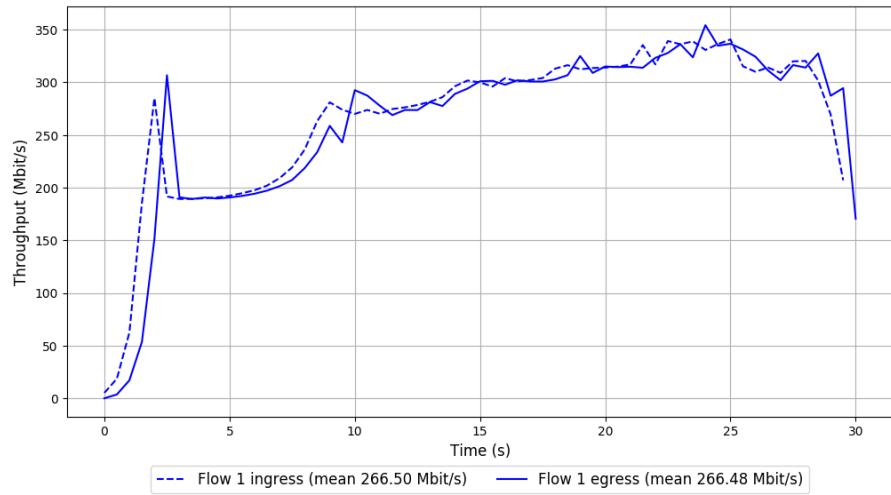


Run 5: Statistics of PCC-Expr

```
Start at: 2019-07-12 11:41:20
End at: 2019-07-12 11:41:50
Local clock offset: -0.001 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-07-12 13:38:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 266.48 Mbit/s
95th percentile per-packet one-way delay: 83.301 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 266.48 Mbit/s
95th percentile per-packet one-way delay: 83.301 ms
Loss rate: 0.43%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

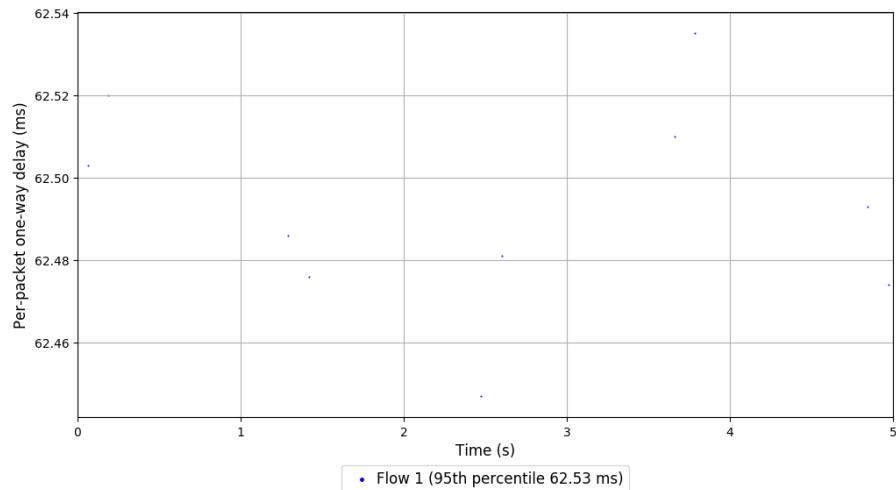
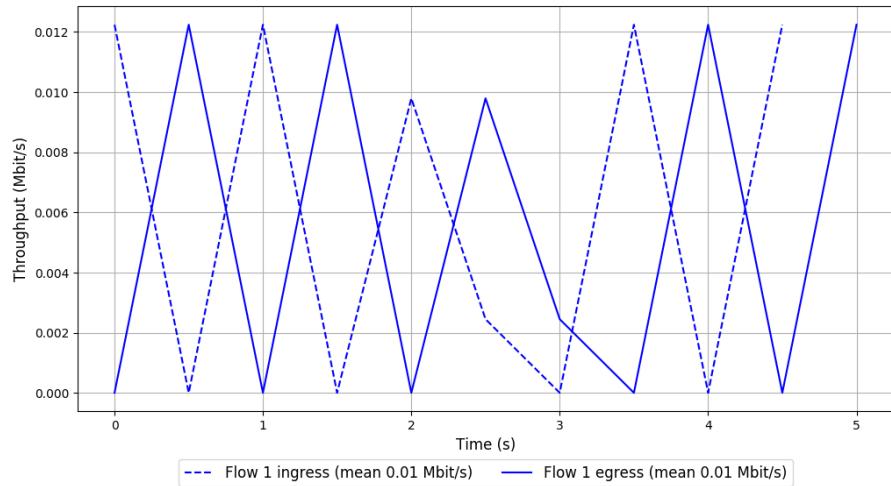
Start at: 2019-07-12 08:58:57

End at: 2019-07-12 08:59:27

Local clock offset: -0.017 ms

Remote clock offset: 0.62 ms

Run 1: Report of QUIC Cubic — Data Link

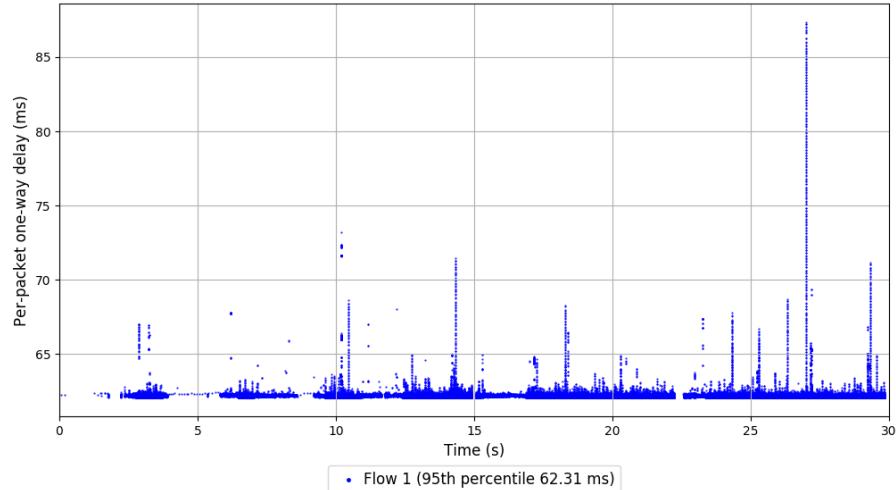
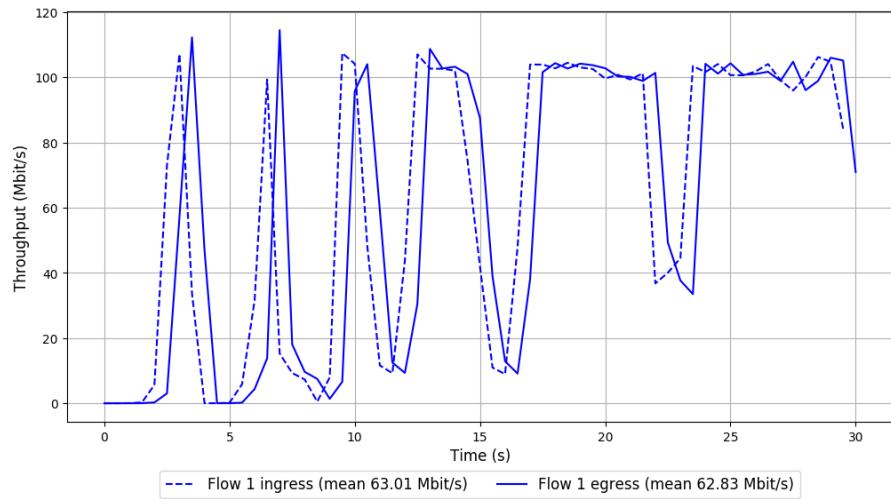


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-07-12 09:33:58
End at: 2019-07-12 09:34:28
Local clock offset: 0.008 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-07-12 13:38:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.83 Mbit/s
95th percentile per-packet one-way delay: 62.308 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 62.83 Mbit/s
95th percentile per-packet one-way delay: 62.308 ms
Loss rate: 0.69%
```

Run 2: Report of QUIC Cubic — Data Link

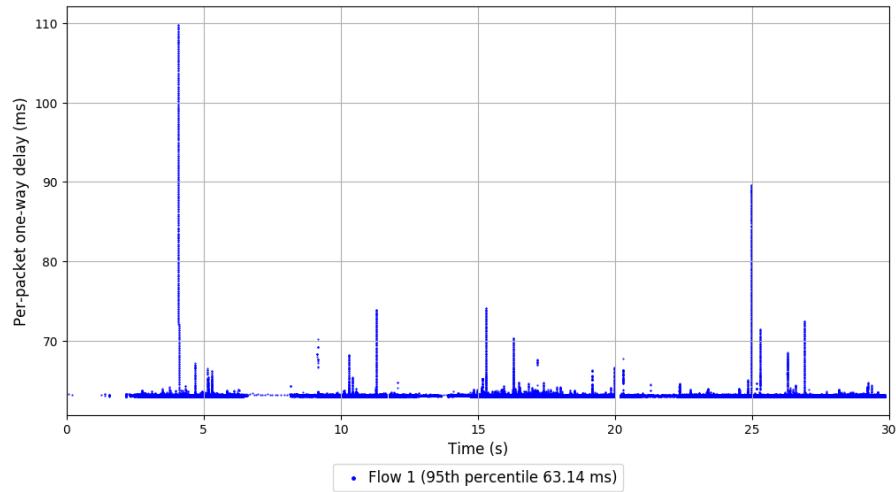
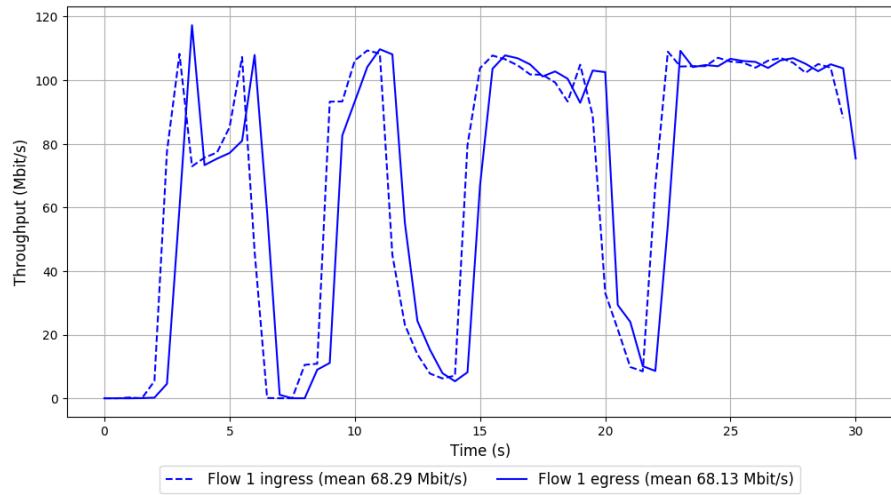


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-07-12 10:09:07
End at: 2019-07-12 10:09:37
Local clock offset: -0.074 ms
Remote clock offset: -0.285 ms

# Below is generated by plot.py at 2019-07-12 13:38:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.13 Mbit/s
95th percentile per-packet one-way delay: 63.136 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 68.13 Mbit/s
95th percentile per-packet one-way delay: 63.136 ms
Loss rate: 0.64%
```

Run 3: Report of QUIC Cubic — Data Link

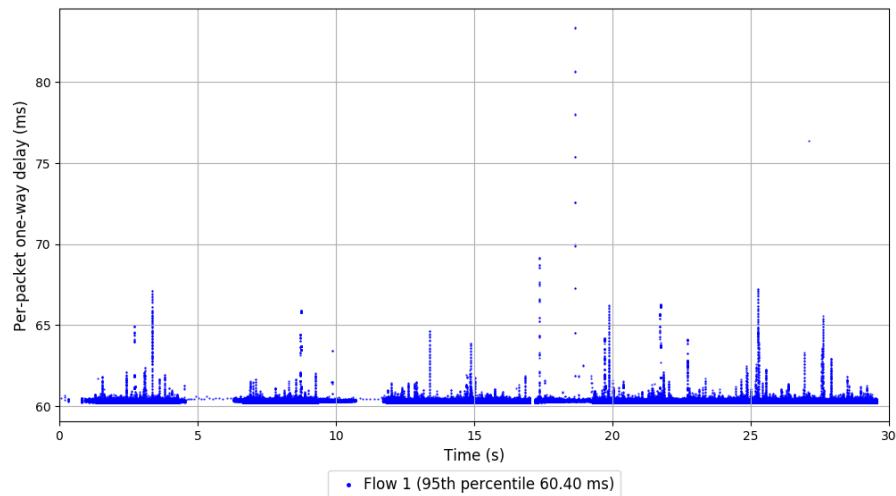
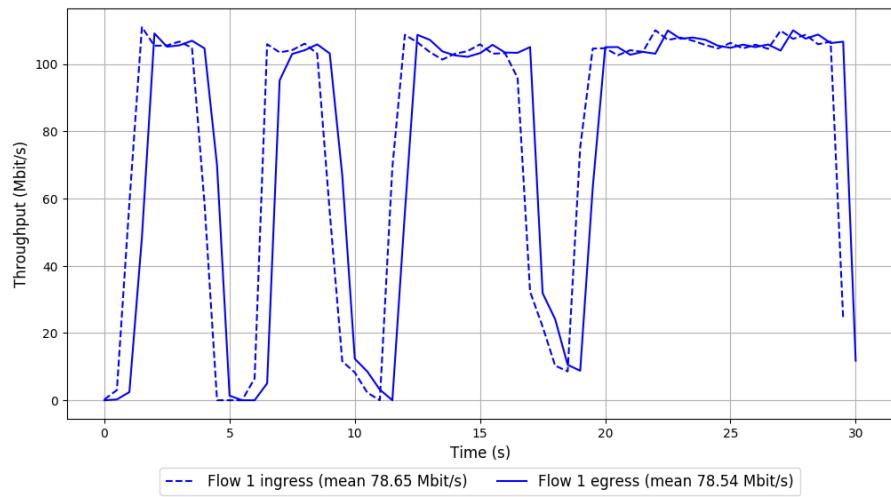


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-07-12 10:44:22
End at: 2019-07-12 10:44:53
Local clock offset: -0.007 ms
Remote clock offset: -0.245 ms

# Below is generated by plot.py at 2019-07-12 13:38:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.54 Mbit/s
95th percentile per-packet one-way delay: 60.404 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 78.54 Mbit/s
95th percentile per-packet one-way delay: 60.404 ms
Loss rate: 0.54%
```

Run 4: Report of QUIC Cubic — Data Link

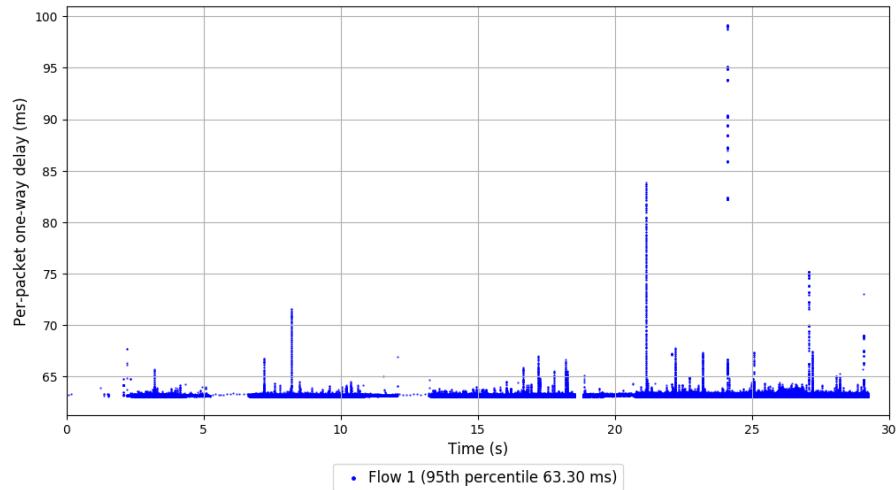
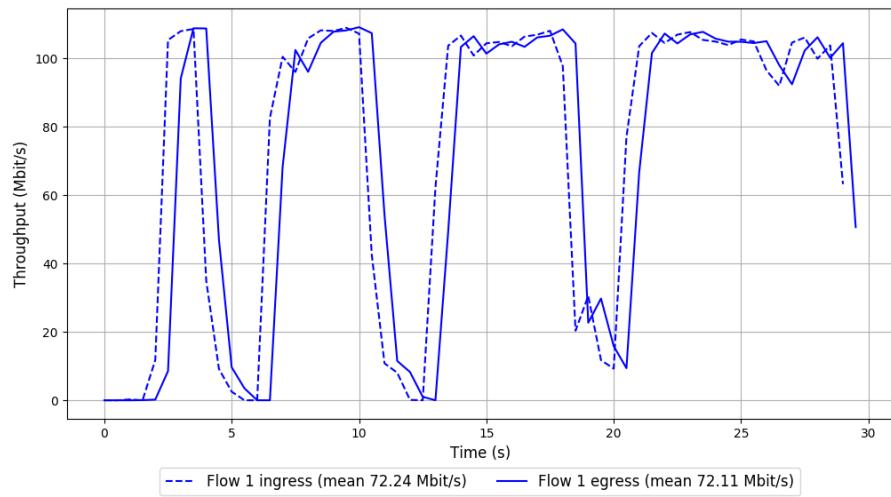


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-07-12 11:19:40
End at: 2019-07-12 11:20:10
Local clock offset: -0.032 ms
Remote clock offset: -0.714 ms

# Below is generated by plot.py at 2019-07-12 13:38:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.11 Mbit/s
95th percentile per-packet one-way delay: 63.302 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 72.11 Mbit/s
95th percentile per-packet one-way delay: 63.302 ms
Loss rate: 0.60%
```

Run 5: Report of QUIC Cubic — Data Link

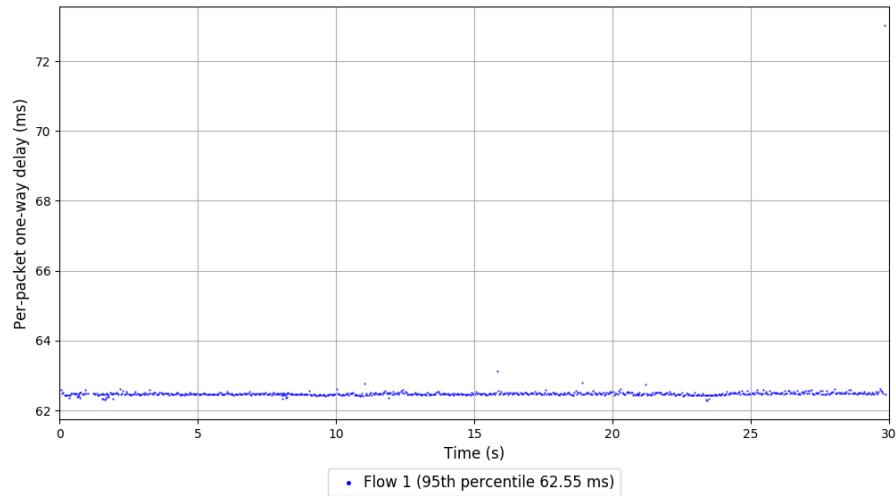
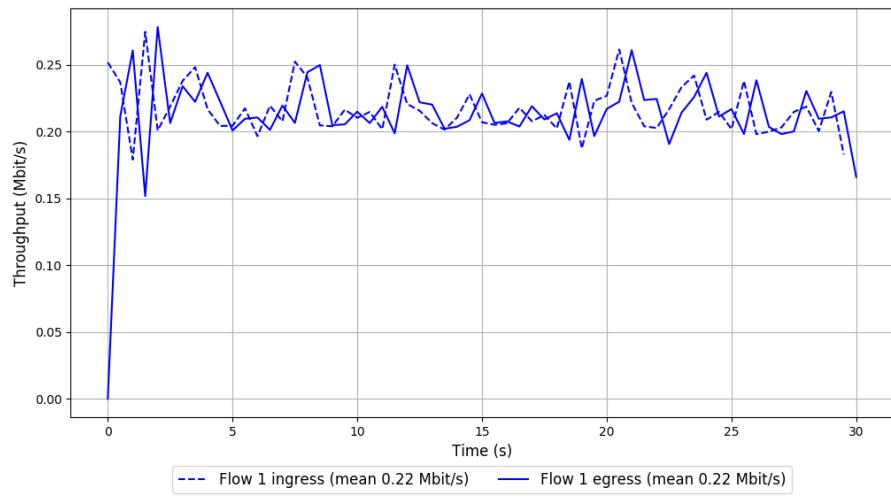


Run 1: Statistics of SCReAM

```
Start at: 2019-07-12 09:06:12
End at: 2019-07-12 09:06:42
Local clock offset: -0.025 ms
Remote clock offset: 0.527 ms

# Below is generated by plot.py at 2019-07-12 13:38:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.545 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.545 ms
Loss rate: 0.38%
```

Run 1: Report of SCReAM — Data Link

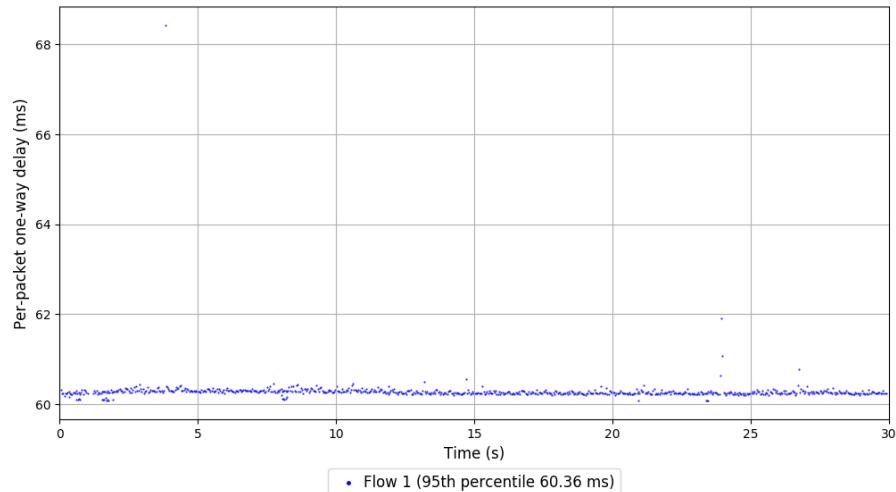
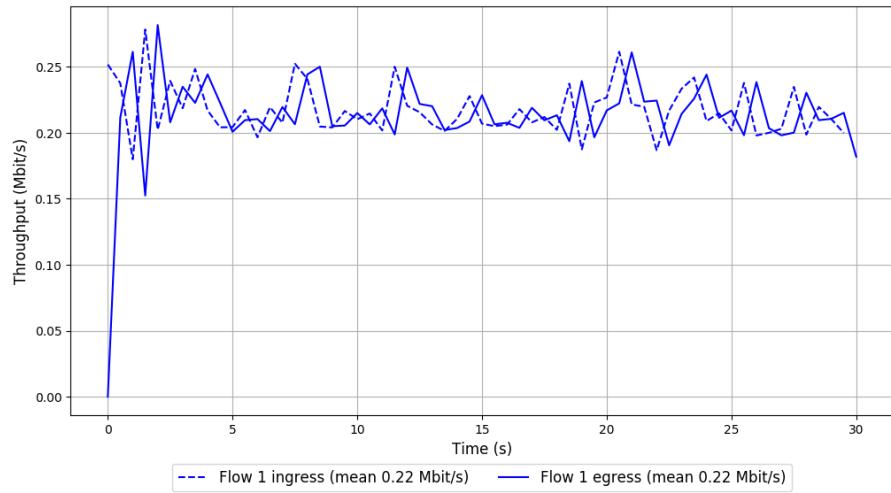


Run 2: Statistics of SCReAM

```
Start at: 2019-07-12 09:41:24
End at: 2019-07-12 09:41:54
Local clock offset: 0.033 ms
Remote clock offset: -0.224 ms

# Below is generated by plot.py at 2019-07-12 13:38:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.361 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.361 ms
Loss rate: 0.39%
```

Run 2: Report of SCReAM — Data Link

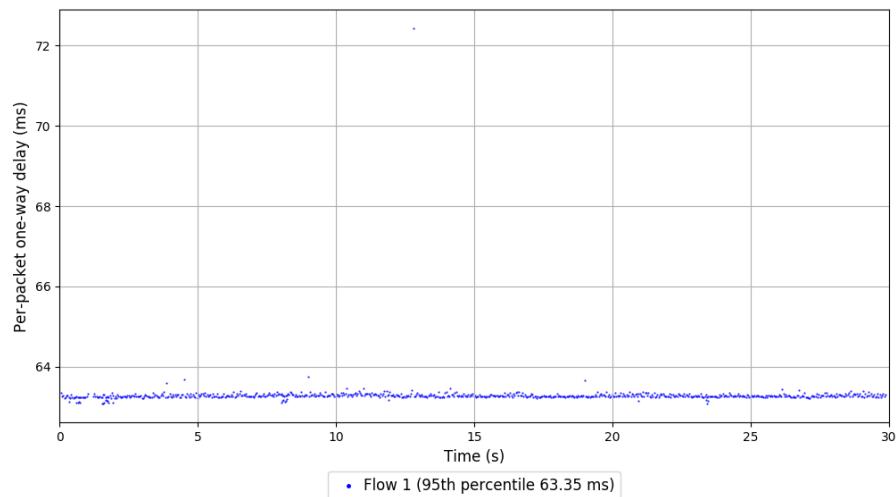
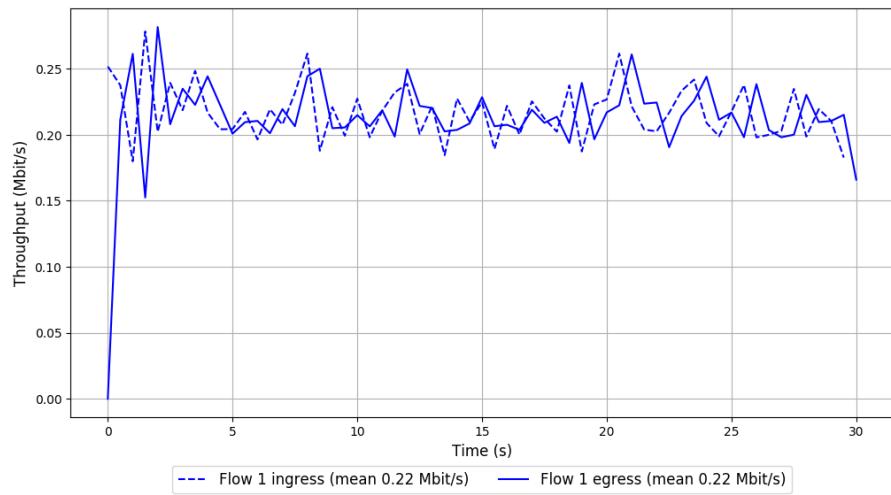


Run 3: Statistics of SCReAM

```
Start at: 2019-07-12 10:16:29
End at: 2019-07-12 10:16:59
Local clock offset: -0.09 ms
Remote clock offset: -0.321 ms

# Below is generated by plot.py at 2019-07-12 13:38:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.354 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.354 ms
Loss rate: 0.38%
```

Run 3: Report of SCReAM — Data Link

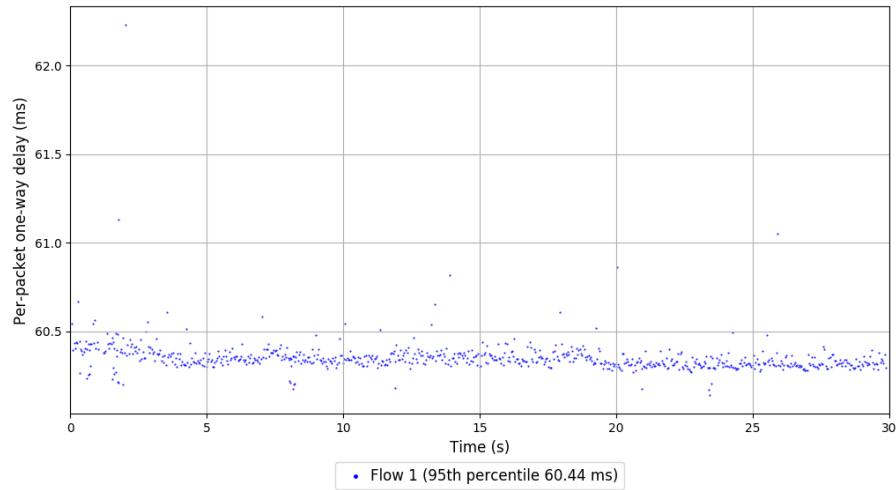
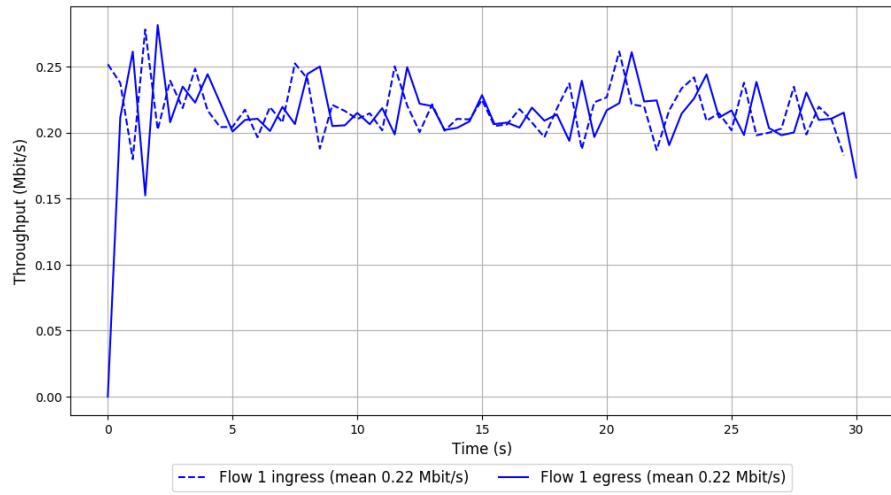


Run 4: Statistics of SCReAM

```
Start at: 2019-07-12 10:51:47
End at: 2019-07-12 10:52:17
Local clock offset: 0.022 ms
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2019-07-12 13:38:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.438 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.438 ms
Loss rate: 0.38%
```

Run 4: Report of SCReAM — Data Link

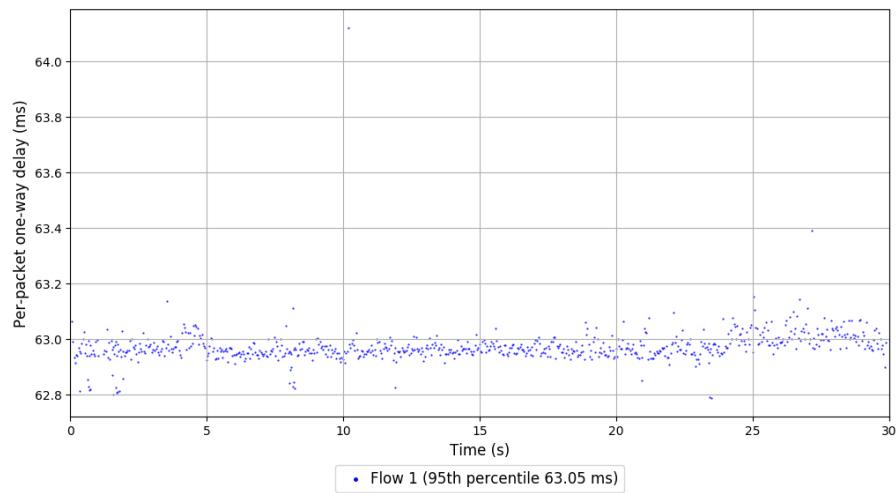
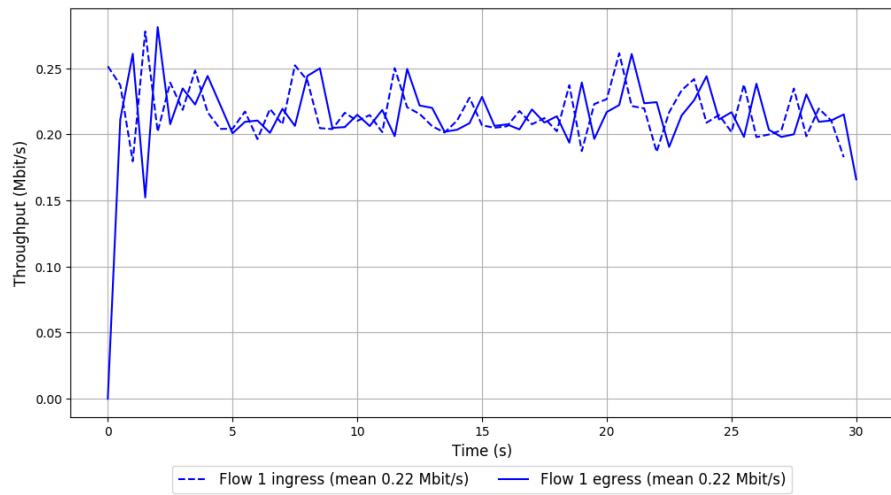


Run 5: Statistics of SCReAM

```
Start at: 2019-07-12 11:27:03
End at: 2019-07-12 11:27:33
Local clock offset: -0.06 ms
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2019-07-12 13:38:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.045 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.045 ms
Loss rate: 0.38%
```

Run 5: Report of SCReAM — Data Link

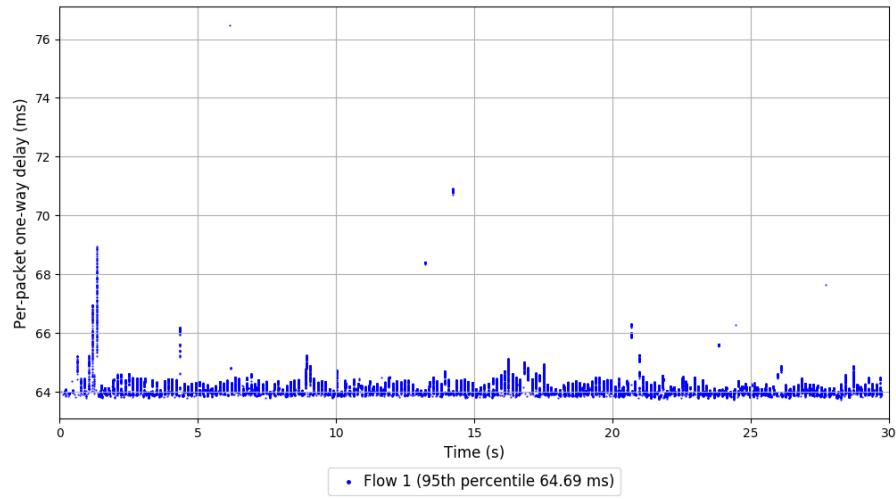
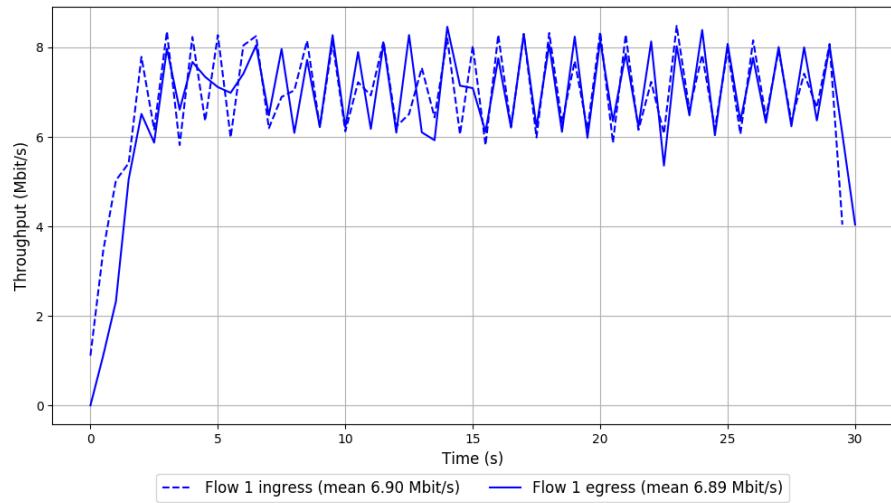


Run 1: Statistics of Sprout

```
Start at: 2019-07-12 09:11:55
End at: 2019-07-12 09:12:25
Local clock offset: -0.008 ms
Remote clock offset: -0.792 ms

# Below is generated by plot.py at 2019-07-12 13:38:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 64.693 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 64.693 ms
Loss rate: 0.49%
```

Run 1: Report of Sprout — Data Link

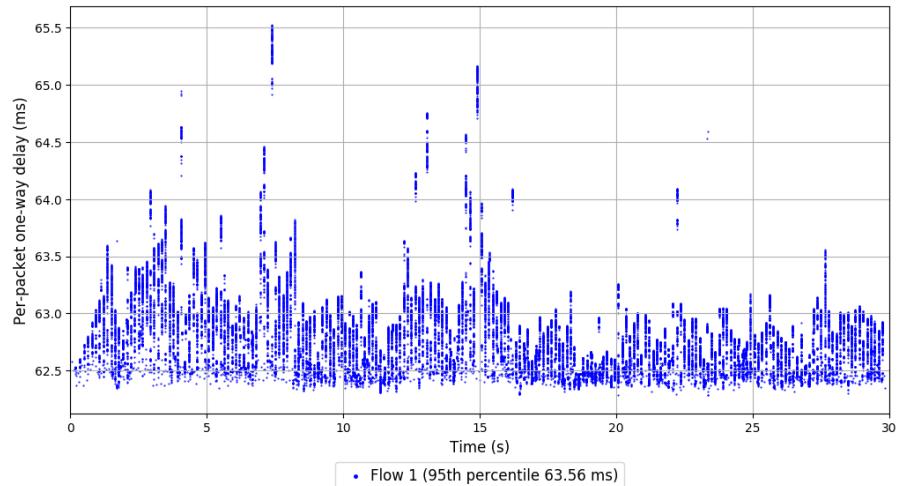
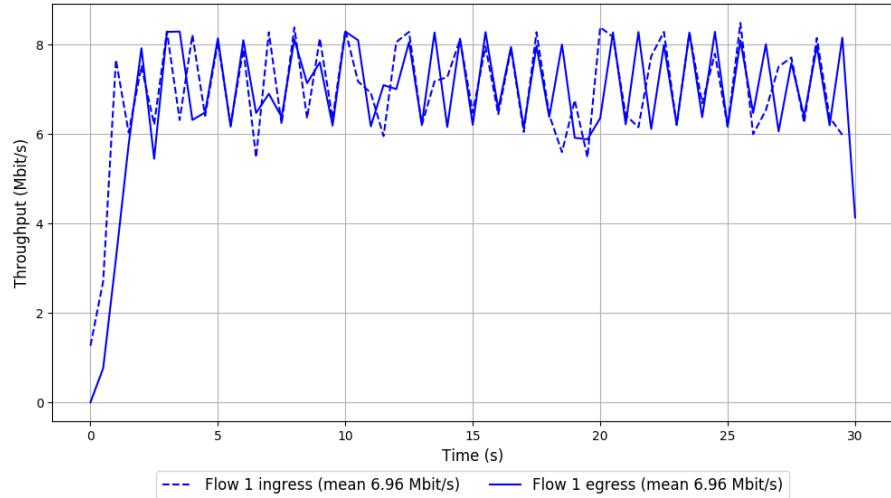


Run 2: Statistics of Sprout

```
Start at: 2019-07-12 09:47:10
End at: 2019-07-12 09:47:40
Local clock offset: 0.027 ms
Remote clock offset: -0.32 ms

# Below is generated by plot.py at 2019-07-12 13:38:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 63.556 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 63.556 ms
Loss rate: 0.48%
```

Run 2: Report of Sprout — Data Link

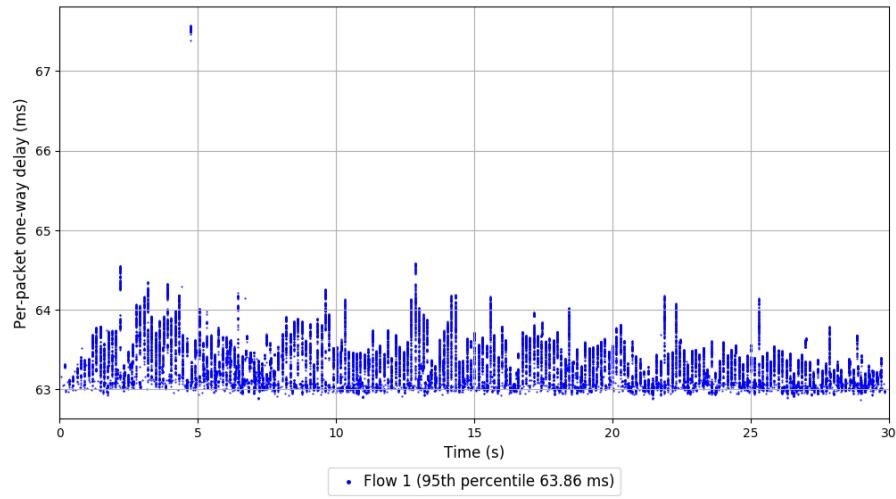
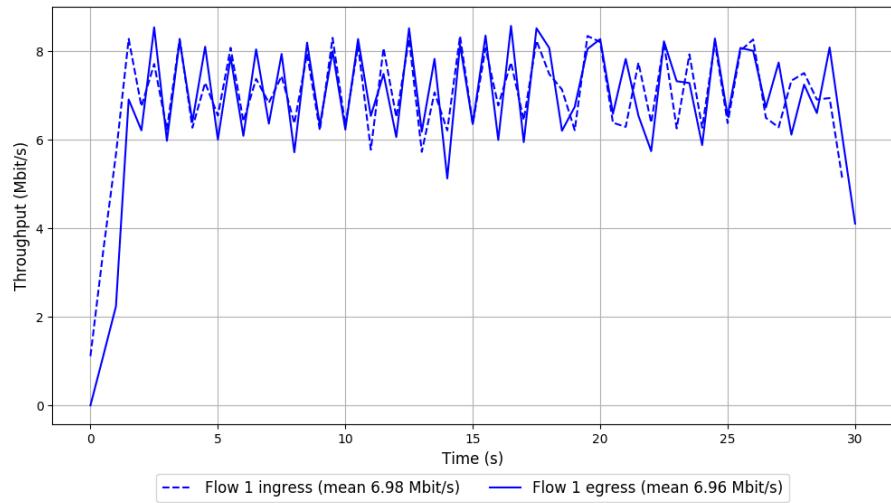


Run 3: Statistics of Sprout

```
Start at: 2019-07-12 10:22:15
End at: 2019-07-12 10:22:45
Local clock offset: -0.079 ms
Remote clock offset: -0.247 ms

# Below is generated by plot.py at 2019-07-12 13:38:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 63.857 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 63.857 ms
Loss rate: 0.52%
```

Run 3: Report of Sprout — Data Link

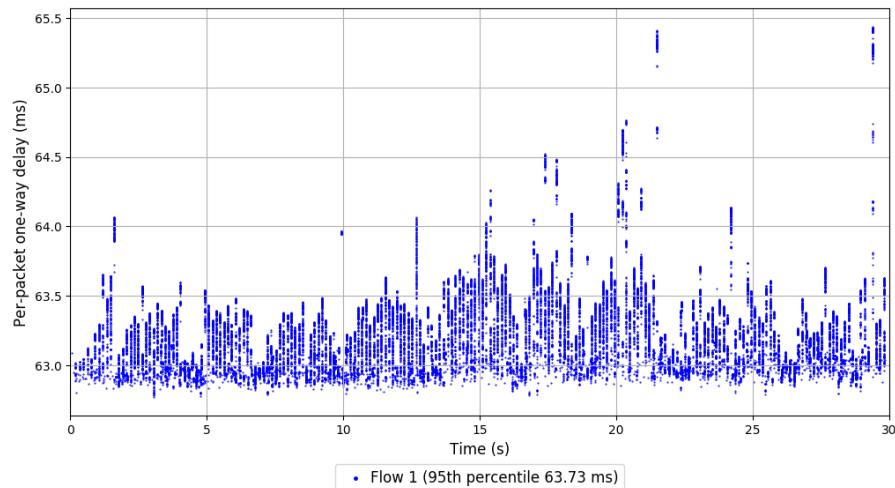
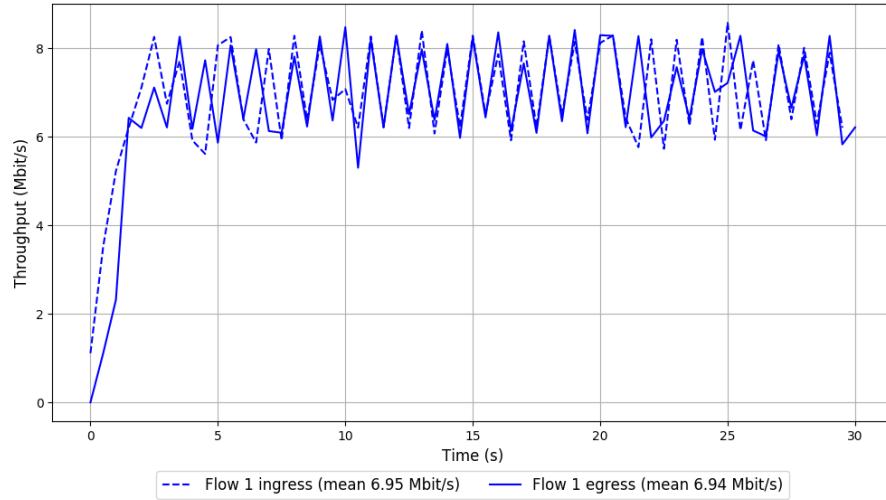


Run 4: Statistics of Sprout

```
Start at: 2019-07-12 10:57:32
End at: 2019-07-12 10:58:02
Local clock offset: 0.016 ms
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2019-07-12 13:38:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 63.728 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 63.728 ms
Loss rate: 0.50%
```

Run 4: Report of Sprout — Data Link

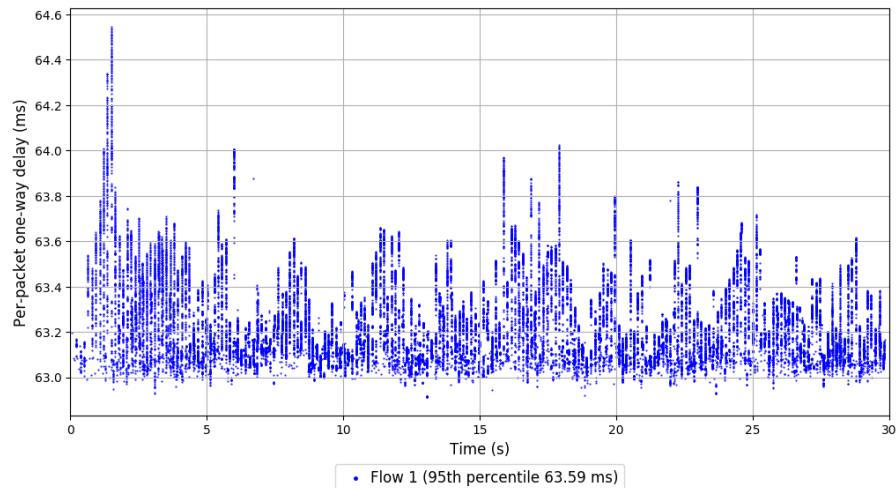
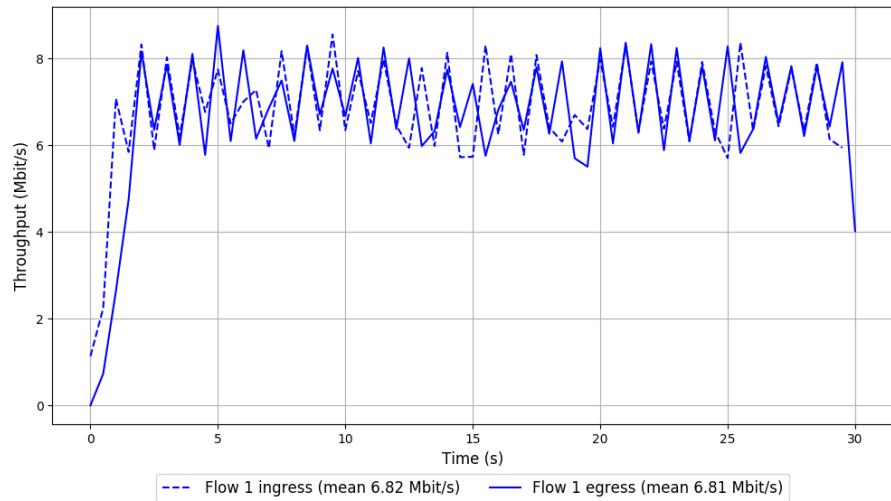


Run 5: Statistics of Sprout

```
Start at: 2019-07-12 11:32:47
End at: 2019-07-12 11:33:17
Local clock offset: -0.048 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-07-12 13:38:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 63.594 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 63.594 ms
Loss rate: 0.47%
```

Run 5: Report of Sprout — Data Link

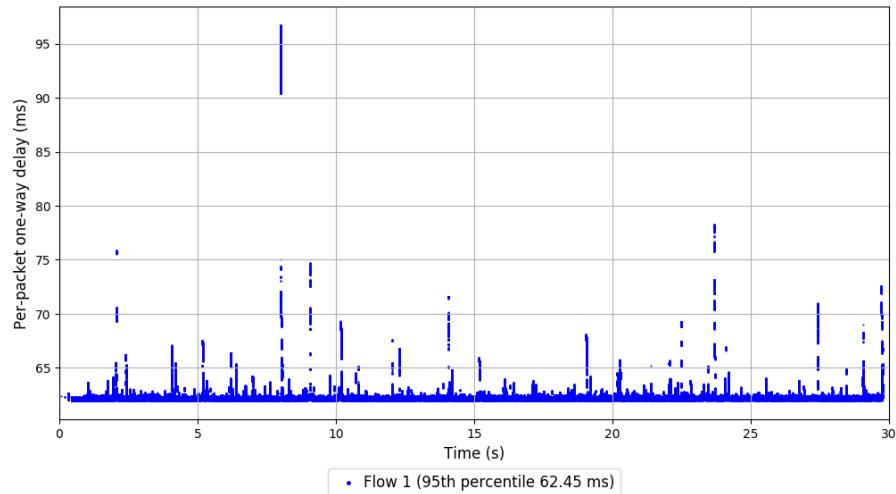
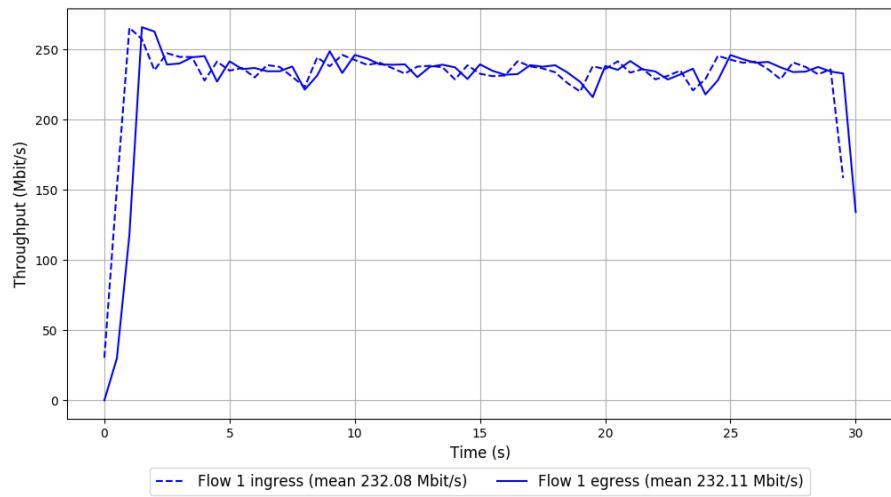


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-07-12 09:03:03
End at: 2019-07-12 09:03:33
Local clock offset: 0.018 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-07-12 13:42:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.11 Mbit/s
95th percentile per-packet one-way delay: 62.449 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 232.11 Mbit/s
95th percentile per-packet one-way delay: 62.449 ms
Loss rate: 0.40%
```

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

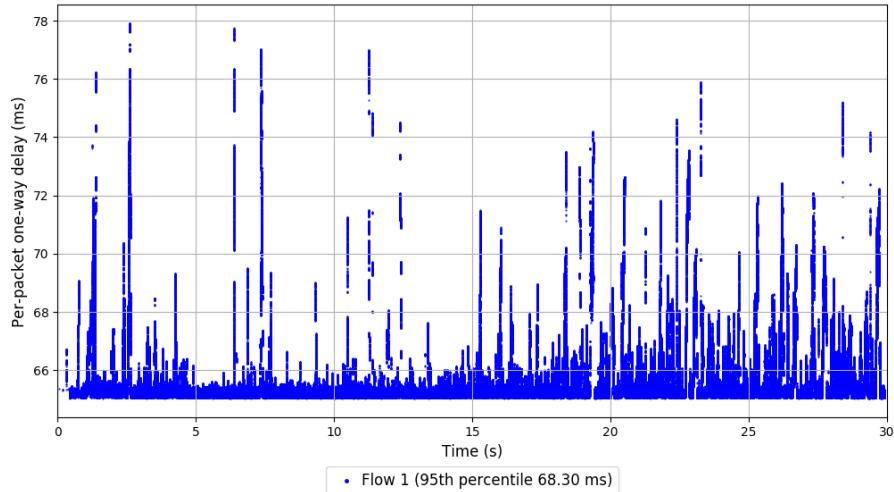
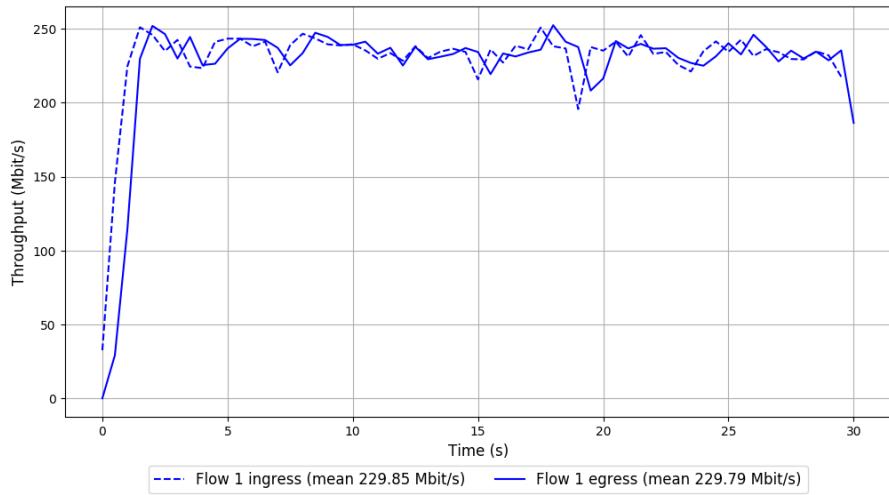


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-07-12 09:38:11
End at: 2019-07-12 09:38:41
Local clock offset: 0.004 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-07-12 13:42:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.79 Mbit/s
95th percentile per-packet one-way delay: 68.302 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 229.79 Mbit/s
95th percentile per-packet one-way delay: 68.302 ms
Loss rate: 0.45%
```

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

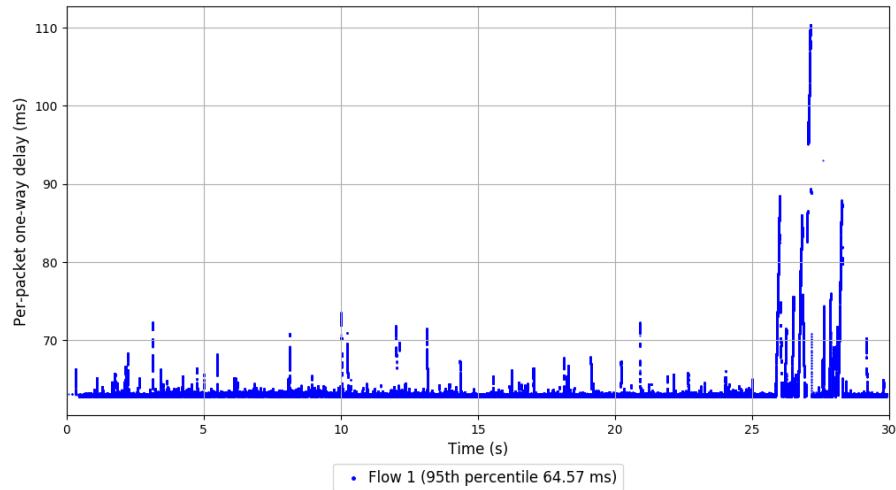
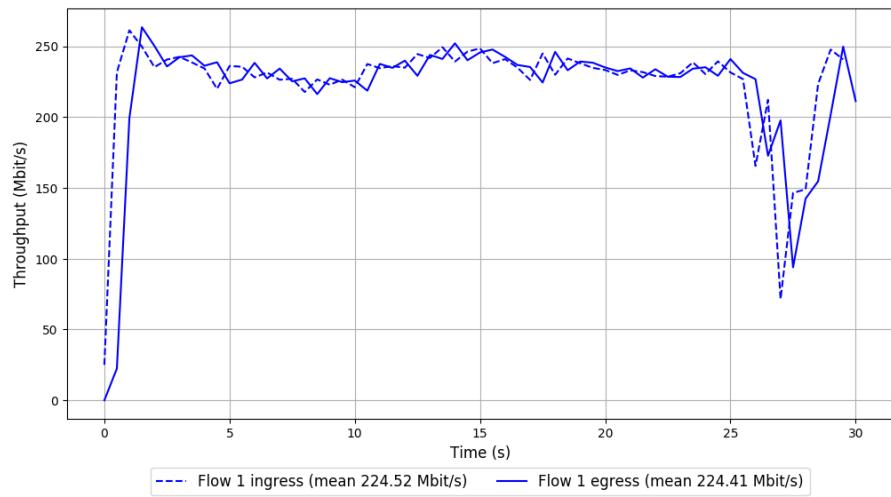


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-07-12 10:13:21
End at: 2019-07-12 10:13:51
Local clock offset: -0.074 ms
Remote clock offset: -0.251 ms

# Below is generated by plot.py at 2019-07-12 13:42:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.41 Mbit/s
95th percentile per-packet one-way delay: 64.573 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 224.41 Mbit/s
95th percentile per-packet one-way delay: 64.573 ms
Loss rate: 0.46%
```

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

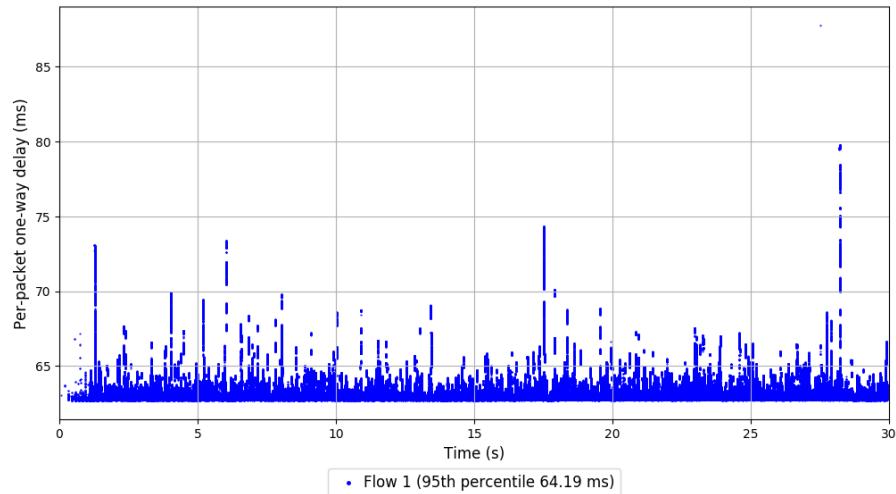
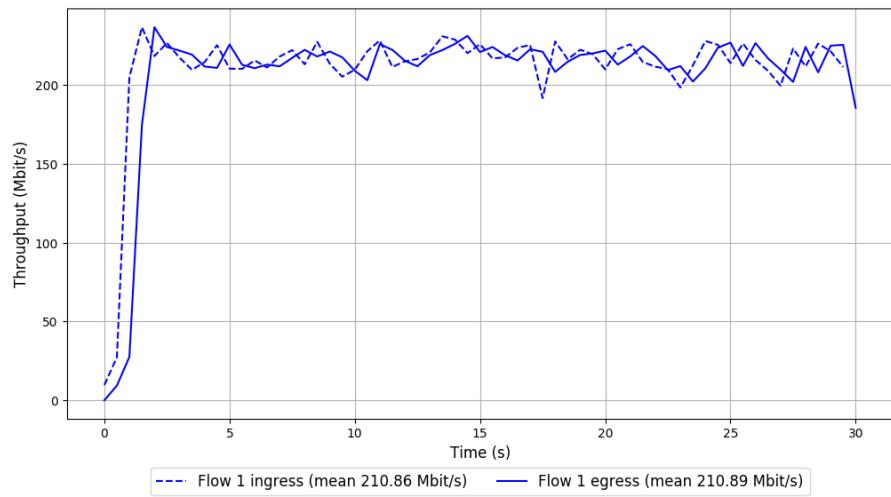


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-07-12 10:48:35
End at: 2019-07-12 10:49:05
Local clock offset: -0.021 ms
Remote clock offset: -0.918 ms

# Below is generated by plot.py at 2019-07-12 13:42:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.89 Mbit/s
95th percentile per-packet one-way delay: 64.190 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 210.89 Mbit/s
95th percentile per-packet one-way delay: 64.190 ms
Loss rate: 0.40%
```

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

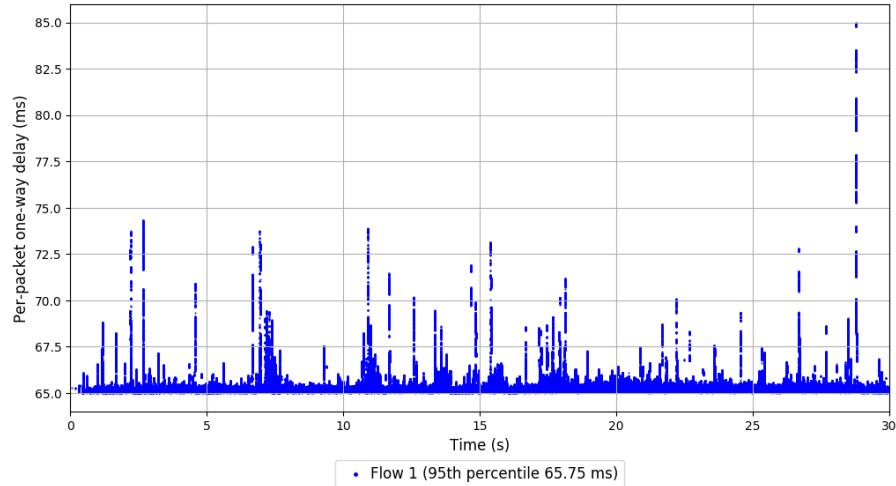
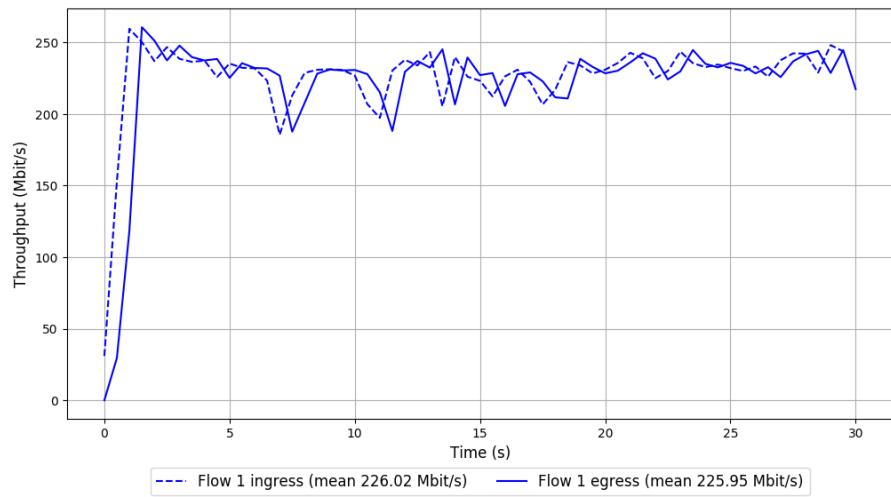


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-07-12 11:23:51
End at: 2019-07-12 11:24:21
Local clock offset: -0.06 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-07-12 13:44:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.95 Mbit/s
95th percentile per-packet one-way delay: 65.749 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 225.95 Mbit/s
95th percentile per-packet one-way delay: 65.749 ms
Loss rate: 0.45%
```

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

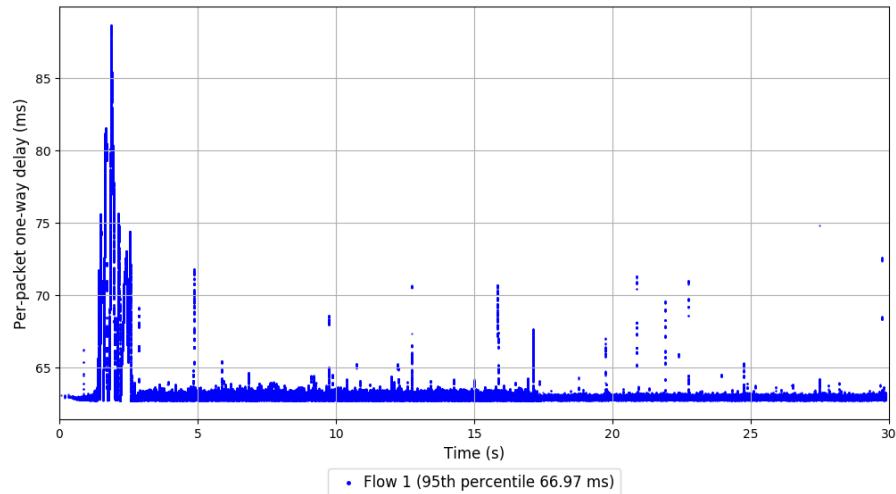
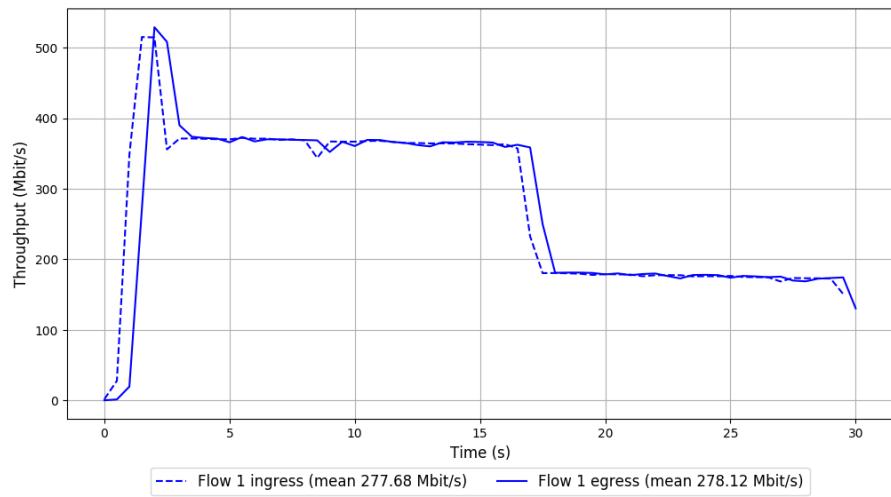


Run 1: Statistics of TCP Vegas

```
Start at: 2019-07-12 09:10:33
End at: 2019-07-12 09:11:03
Local clock offset: 0.02 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-07-12 13:44:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.12 Mbit/s
95th percentile per-packet one-way delay: 66.966 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 278.12 Mbit/s
95th percentile per-packet one-way delay: 66.966 ms
Loss rate: 0.25%
```

Run 1: Report of TCP Vegas — Data Link

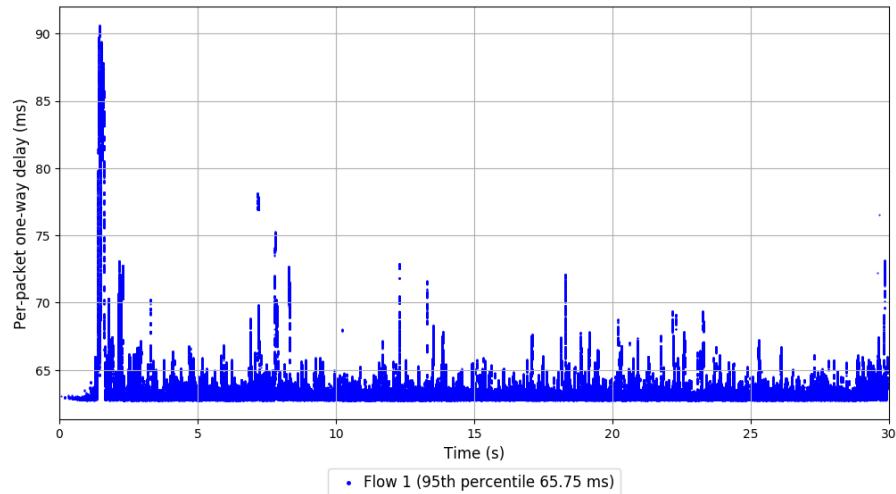
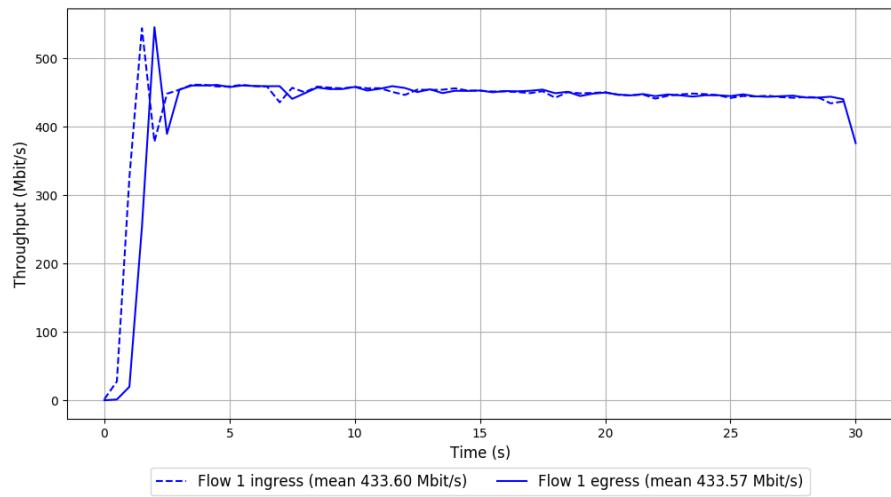


Run 2: Statistics of TCP Vegas

```
Start at: 2019-07-12 09:45:40
End at: 2019-07-12 09:46:10
Local clock offset: 0.013 ms
Remote clock offset: -0.22 ms

# Below is generated by plot.py at 2019-07-12 13:46:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 433.57 Mbit/s
95th percentile per-packet one-way delay: 65.749 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 433.57 Mbit/s
95th percentile per-packet one-way delay: 65.749 ms
Loss rate: 0.42%
```

Run 2: Report of TCP Vegas — Data Link

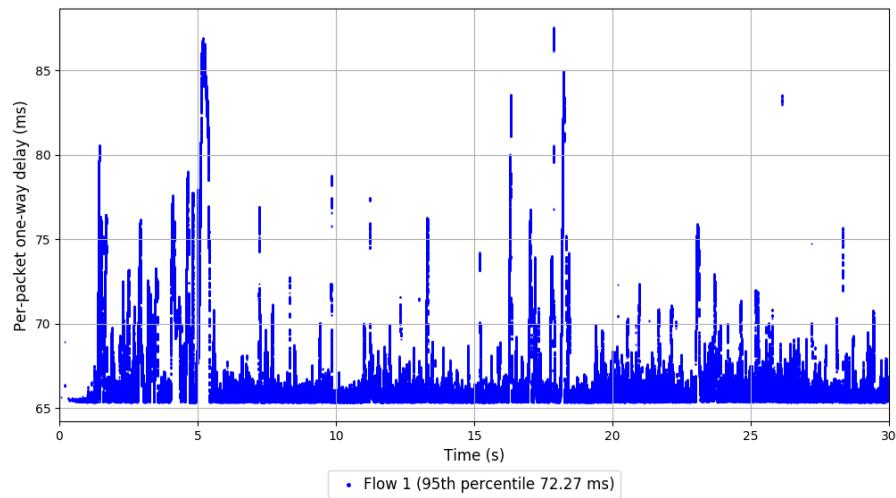
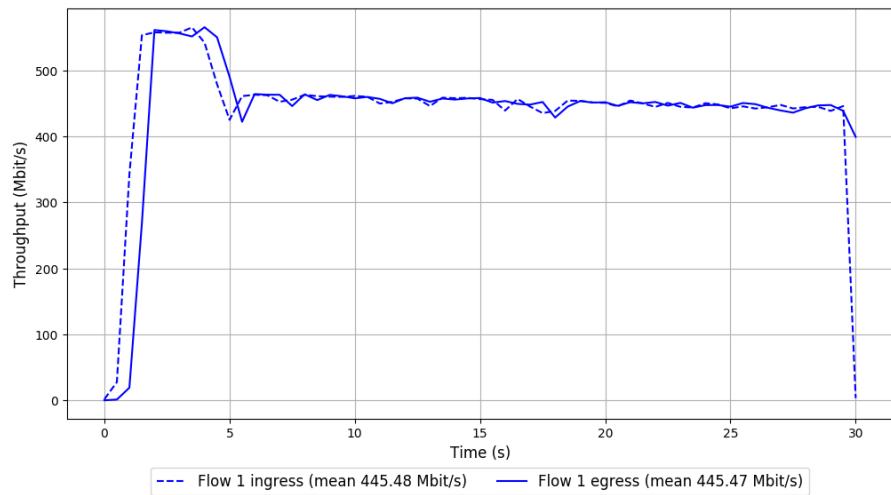


Run 3: Statistics of TCP Vegas

```
Start at: 2019-07-12 10:20:45
End at: 2019-07-12 10:21:15
Local clock offset: -0.091 ms
Remote clock offset: -0.52 ms

# Below is generated by plot.py at 2019-07-12 13:48:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 445.47 Mbit/s
95th percentile per-packet one-way delay: 72.269 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 445.47 Mbit/s
95th percentile per-packet one-way delay: 72.269 ms
Loss rate: 0.42%
```

Run 3: Report of TCP Vegas — Data Link

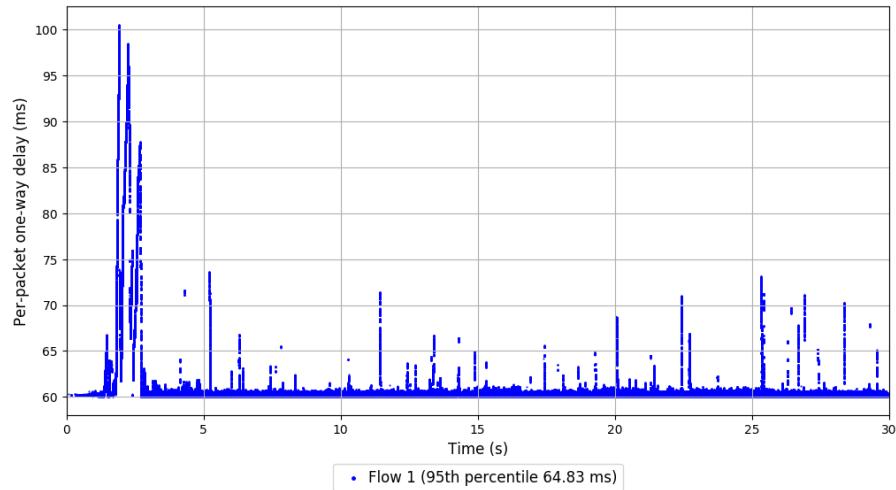
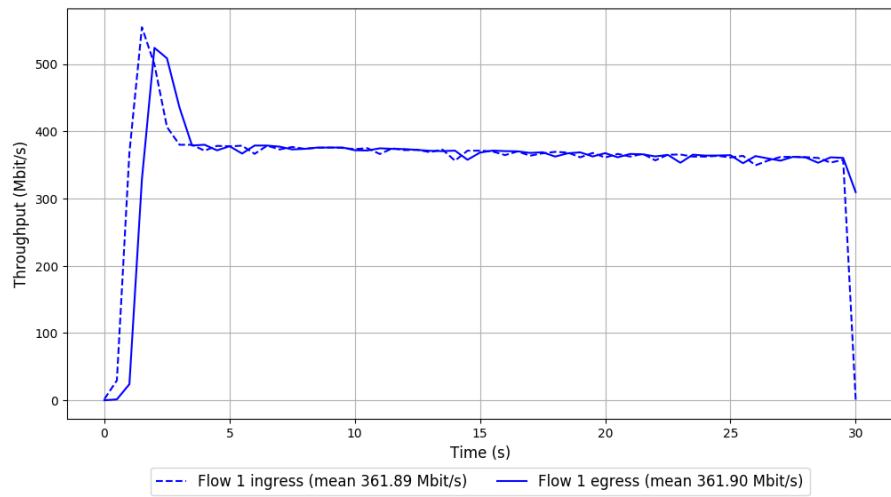


Run 4: Statistics of TCP Vegas

```
Start at: 2019-07-12 10:56:06
End at: 2019-07-12 10:56:36
Local clock offset: 0.001 ms
Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2019-07-12 13:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 361.90 Mbit/s
95th percentile per-packet one-way delay: 64.830 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 361.90 Mbit/s
95th percentile per-packet one-way delay: 64.830 ms
Loss rate: 0.40%
```

Run 4: Report of TCP Vegas — Data Link

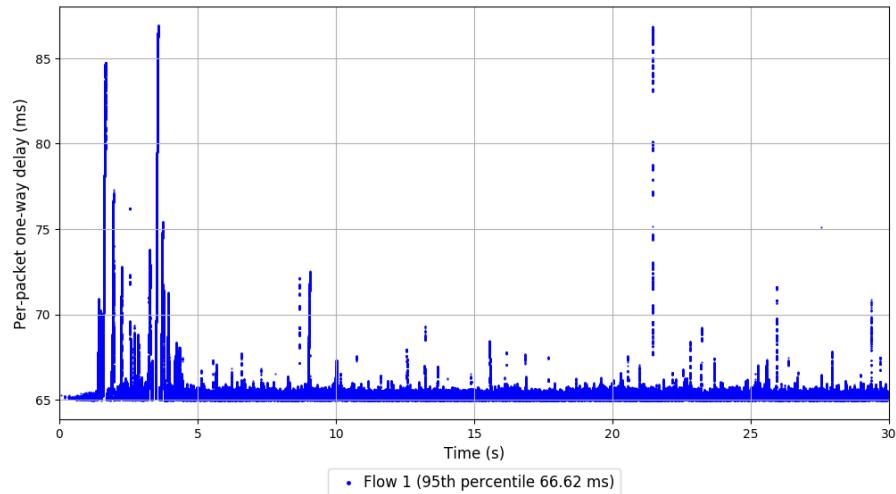
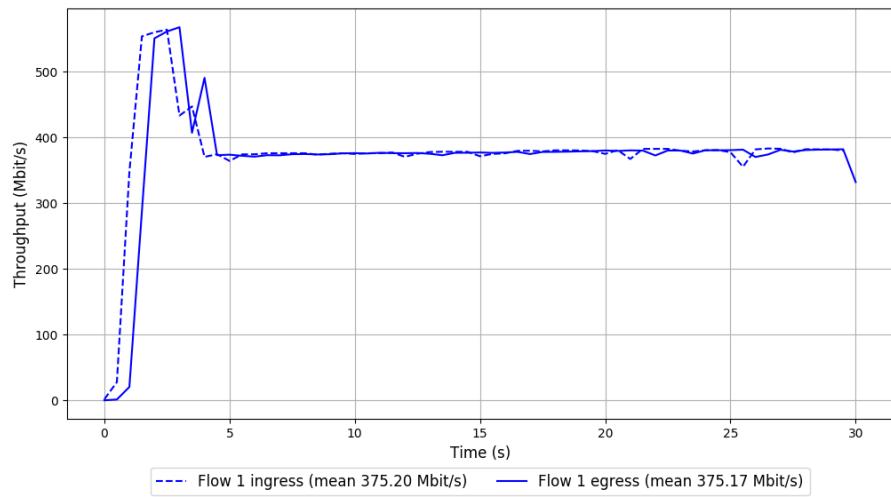


Run 5: Statistics of TCP Vegas

```
Start at: 2019-07-12 11:31:20
End at: 2019-07-12 11:31:50
Local clock offset: -0.043 ms
Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2019-07-12 13:49:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 375.17 Mbit/s
95th percentile per-packet one-way delay: 66.621 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 375.17 Mbit/s
95th percentile per-packet one-way delay: 66.621 ms
Loss rate: 0.42%
```

Run 5: Report of TCP Vegas — Data Link

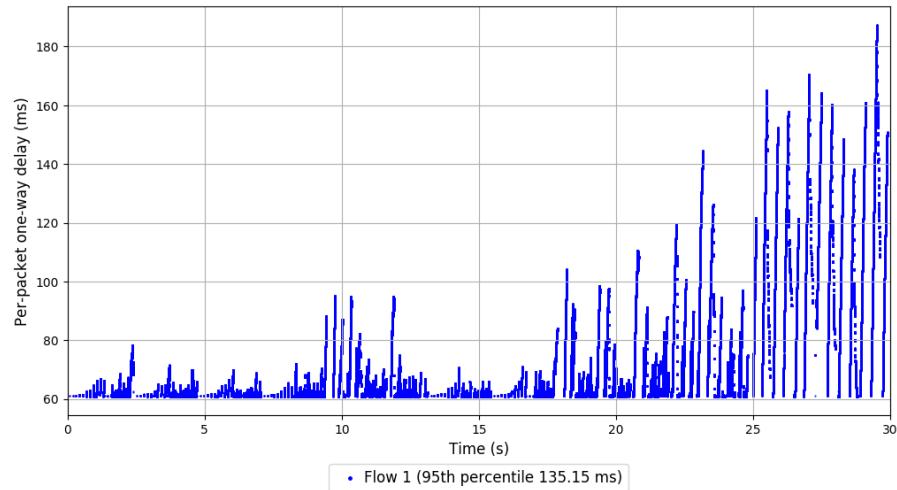
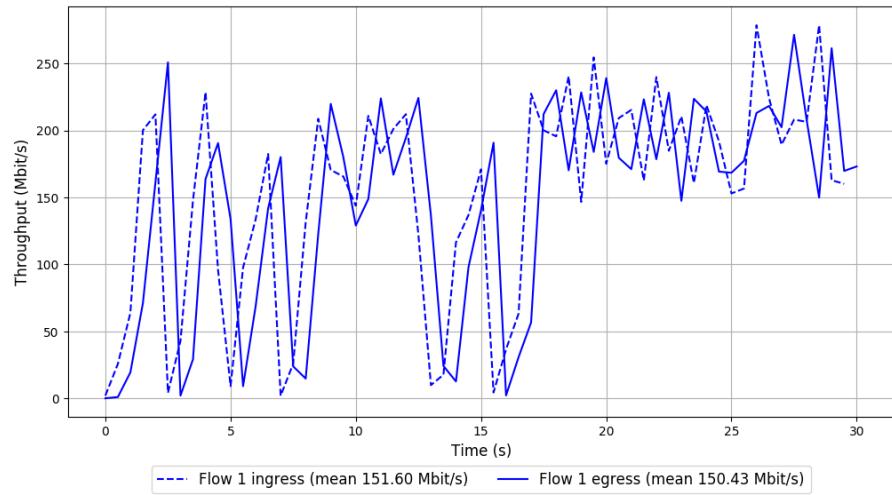


Run 1: Statistics of Verus

```
Start at: 2019-07-12 08:49:49
End at: 2019-07-12 08:50:19
Local clock offset: 0.008 ms
Remote clock offset: -1.04 ms

# Below is generated by plot.py at 2019-07-12 13:49:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 150.43 Mbit/s
95th percentile per-packet one-way delay: 135.150 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 150.43 Mbit/s
95th percentile per-packet one-way delay: 135.150 ms
Loss rate: 0.60%
```

Run 1: Report of Verus — Data Link

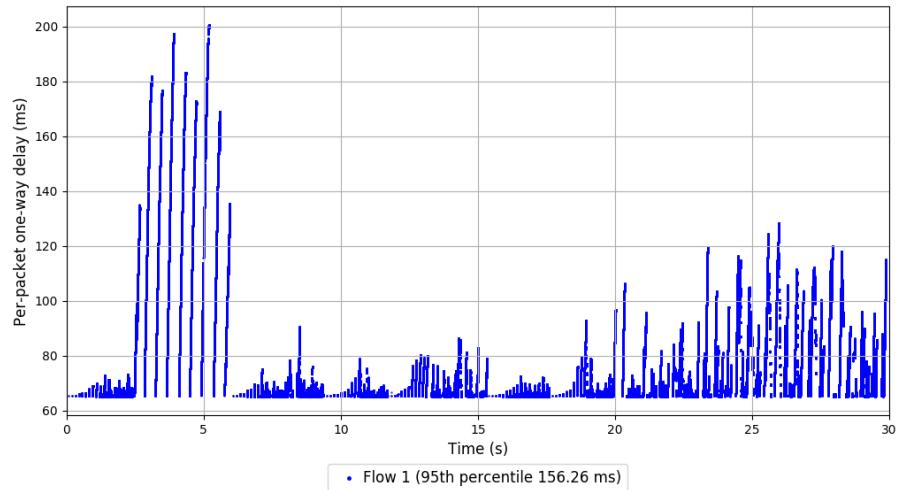
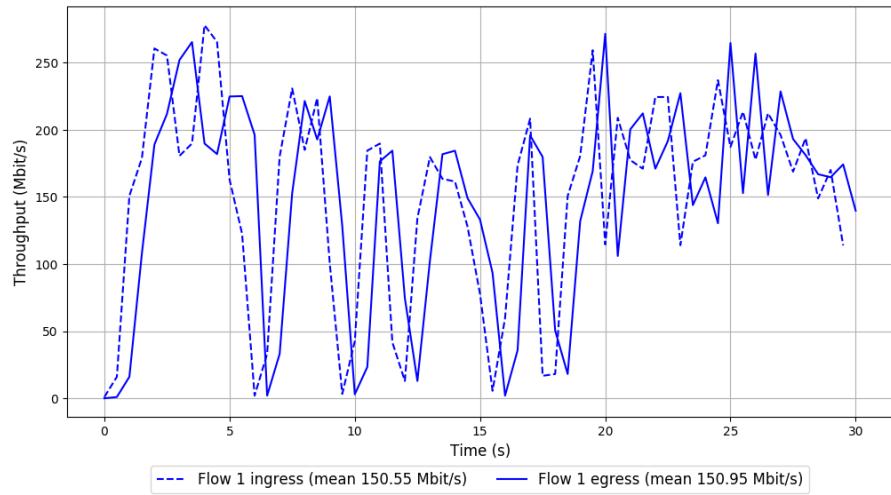


Run 2: Statistics of Verus

```
Start at: 2019-07-12 09:24:37
End at: 2019-07-12 09:25:07
Local clock offset: 0.018 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-07-12 13:49:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 150.95 Mbit/s
95th percentile per-packet one-way delay: 156.261 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 150.95 Mbit/s
95th percentile per-packet one-way delay: 156.261 ms
Loss rate: 0.09%
```

Run 2: Report of Verus — Data Link

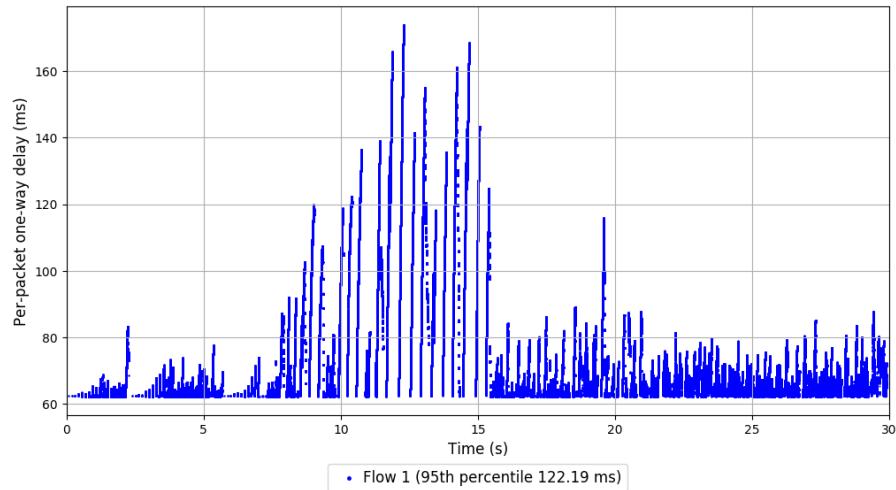
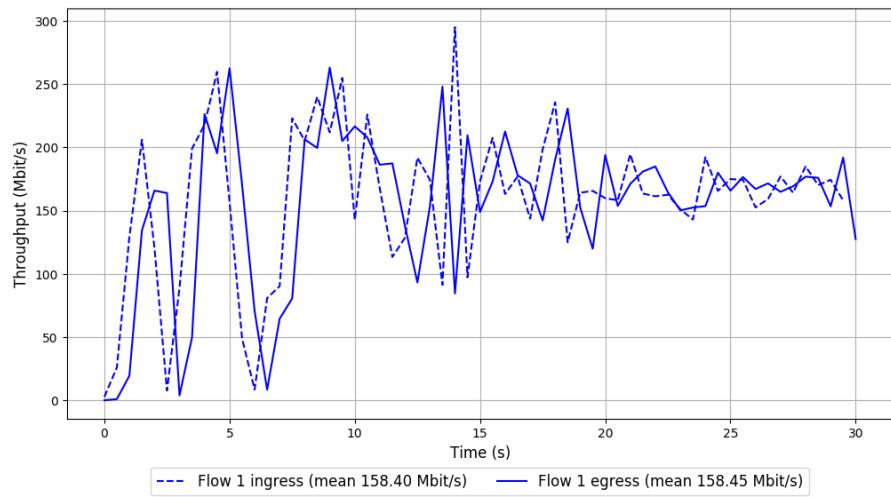


Run 3: Statistics of Verus

```
Start at: 2019-07-12 09:59:51
End at: 2019-07-12 10:00:21
Local clock offset: -0.048 ms
Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2019-07-12 13:49:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 158.45 Mbit/s
95th percentile per-packet one-way delay: 122.187 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 158.45 Mbit/s
95th percentile per-packet one-way delay: 122.187 ms
Loss rate: 0.41%
```

Run 3: Report of Verus — Data Link

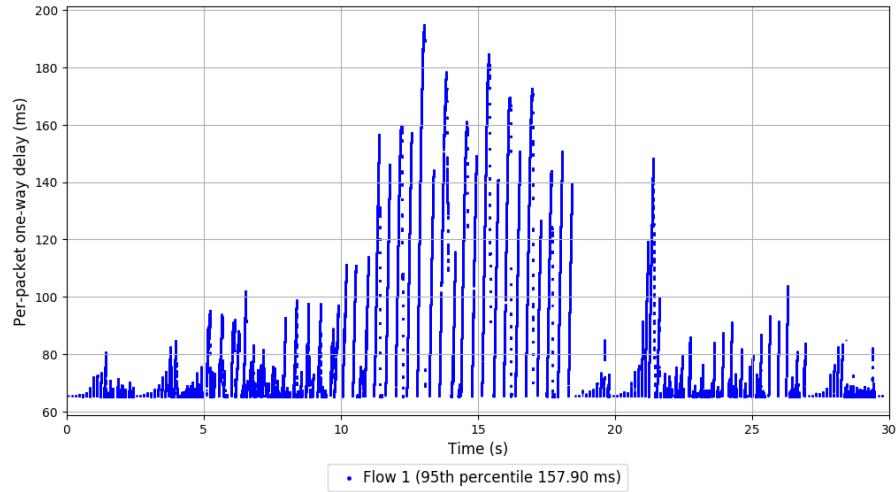
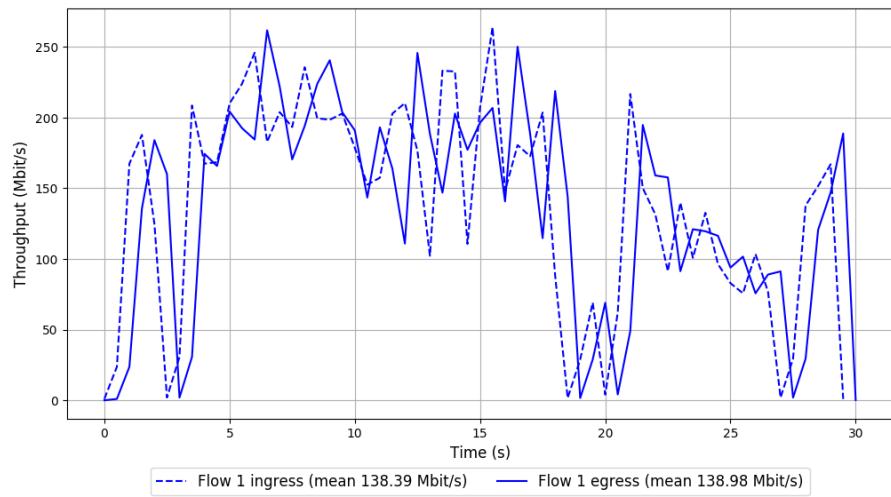


Run 4: Statistics of Verus

```
Start at: 2019-07-12 10:35:05
End at: 2019-07-12 10:35:35
Local clock offset: -0.048 ms
Remote clock offset: -0.243 ms

# Below is generated by plot.py at 2019-07-12 13:49:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 138.98 Mbit/s
95th percentile per-packet one-way delay: 157.896 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 138.98 Mbit/s
95th percentile per-packet one-way delay: 157.896 ms
Loss rate: 0.01%
```

Run 4: Report of Verus — Data Link

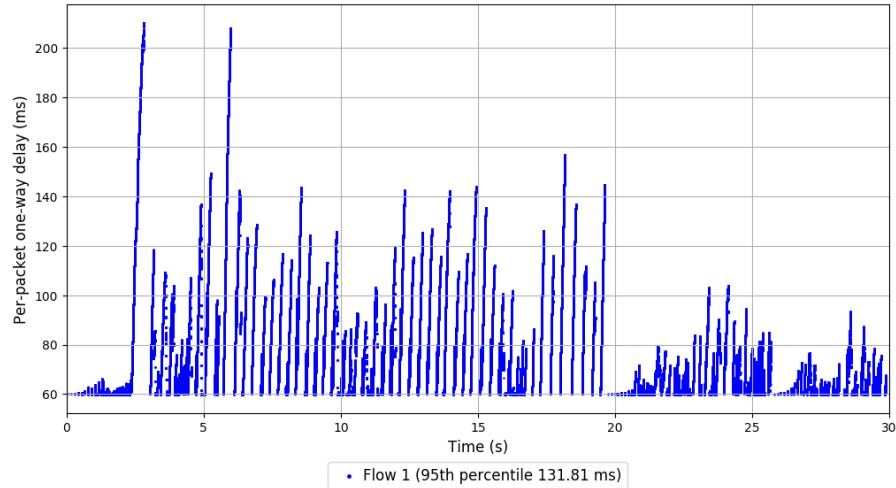
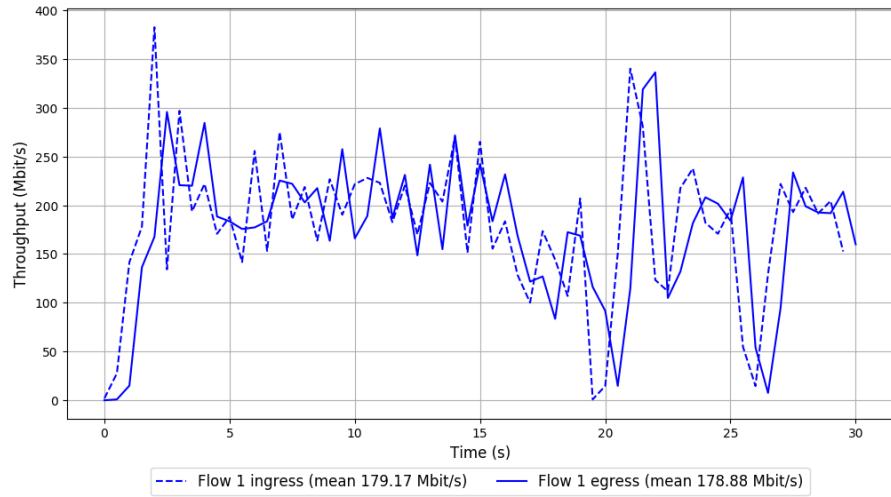


Run 5: Statistics of Verus

```
Start at: 2019-07-12 11:10:22
End at: 2019-07-12 11:10:52
Local clock offset: -0.038 ms
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2019-07-12 13:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.88 Mbit/s
95th percentile per-packet one-way delay: 131.813 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 178.88 Mbit/s
95th percentile per-packet one-way delay: 131.813 ms
Loss rate: 0.43%
```

Run 5: Report of Verus — Data Link

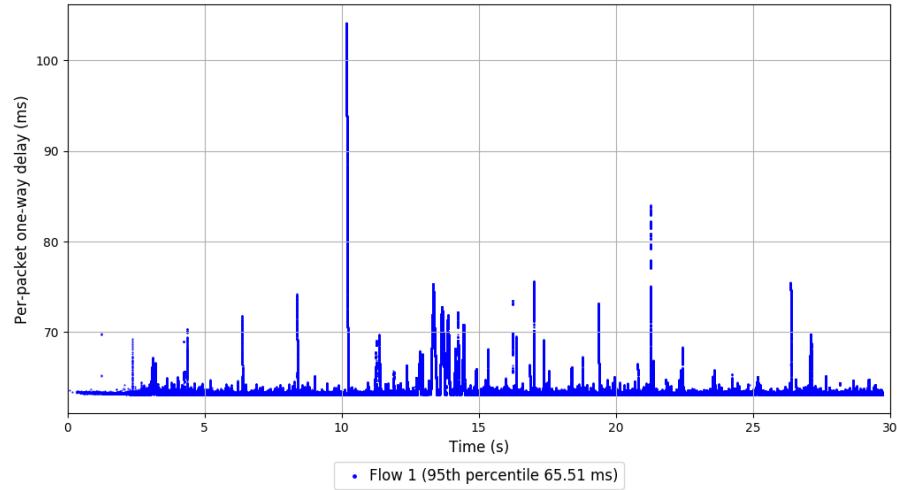
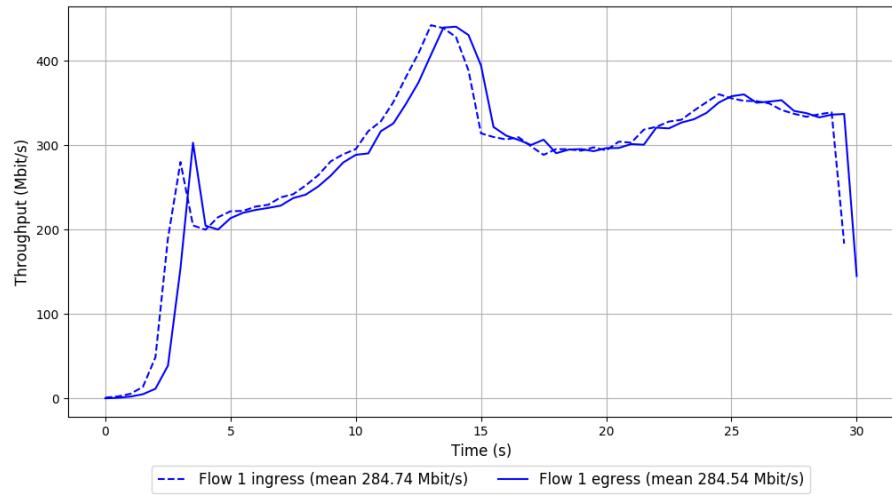


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-07-12 09:22:01
End at: 2019-07-12 09:22:31
Local clock offset: 0.012 ms
Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2019-07-12 13:52:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 284.54 Mbit/s
95th percentile per-packet one-way delay: 65.507 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 284.54 Mbit/s
95th percentile per-packet one-way delay: 65.507 ms
Loss rate: 0.49%
```

Run 1: Report of PCC-Vivace — Data Link

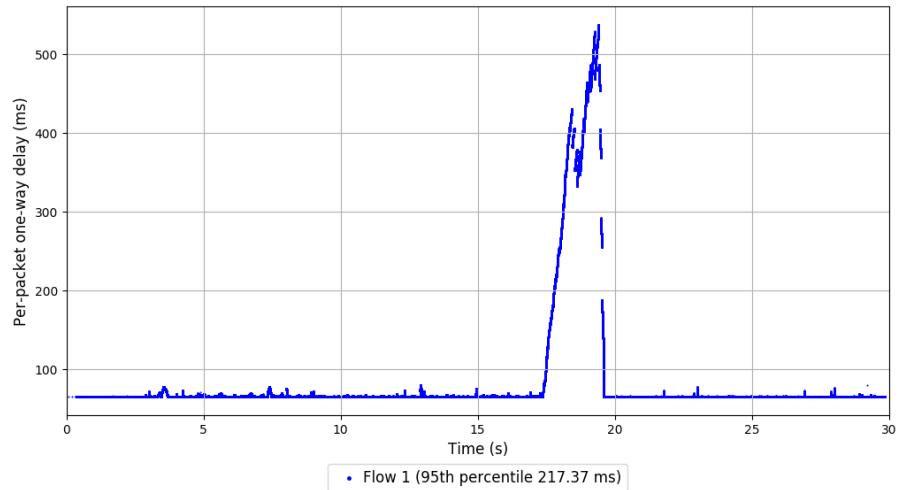
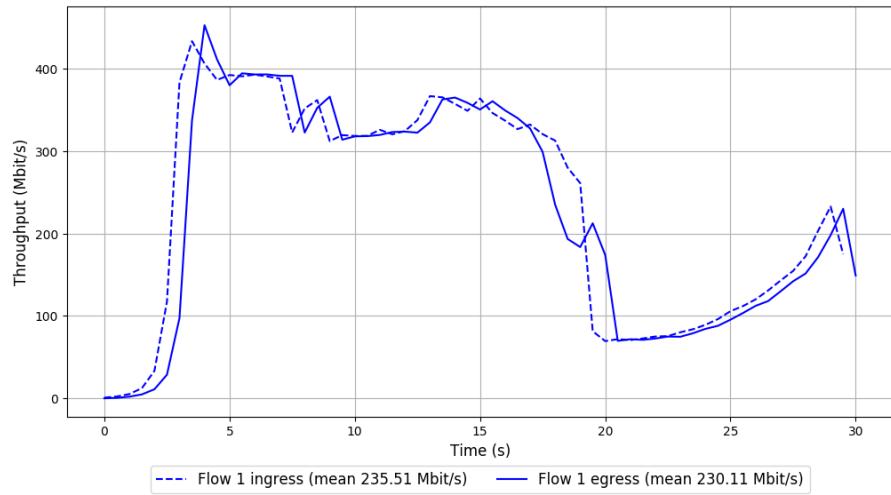


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-07-12 09:57:20
End at: 2019-07-12 09:57:50
Local clock offset: -0.024 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-07-12 13:52:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.11 Mbit/s
95th percentile per-packet one-way delay: 217.366 ms
Loss rate: 2.70%
-- Flow 1:
Average throughput: 230.11 Mbit/s
95th percentile per-packet one-way delay: 217.366 ms
Loss rate: 2.70%
```

Run 2: Report of PCC-Vivace — Data Link

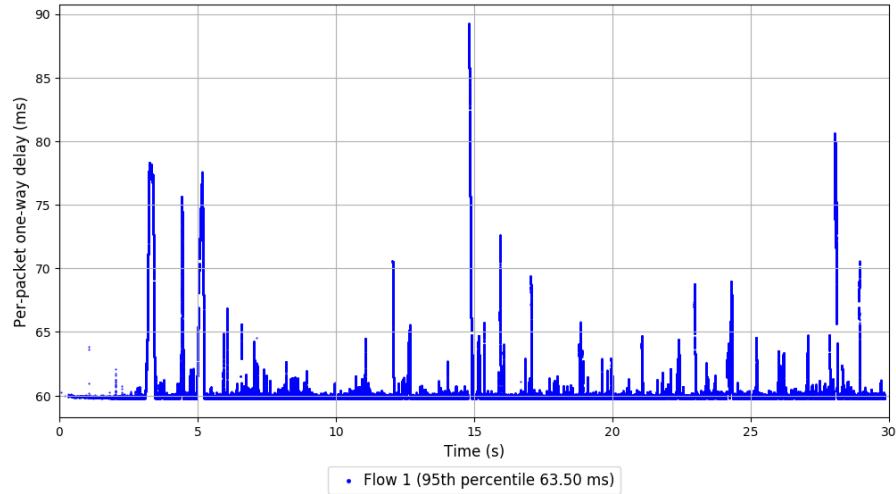
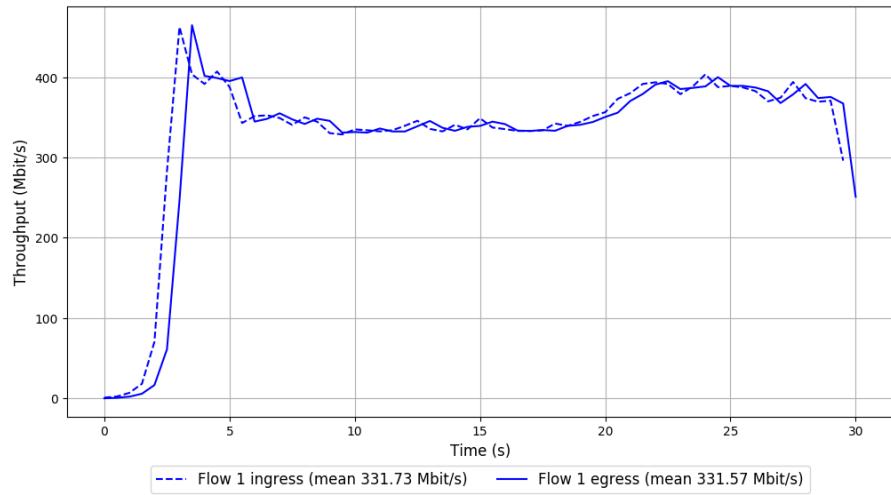


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-07-12 10:32:27
End at: 2019-07-12 10:32:57
Local clock offset: -0.09 ms
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2019-07-12 13:52:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.57 Mbit/s
95th percentile per-packet one-way delay: 63.502 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 331.57 Mbit/s
95th percentile per-packet one-way delay: 63.502 ms
Loss rate: 0.45%
```

Run 3: Report of PCC-Vivace — Data Link

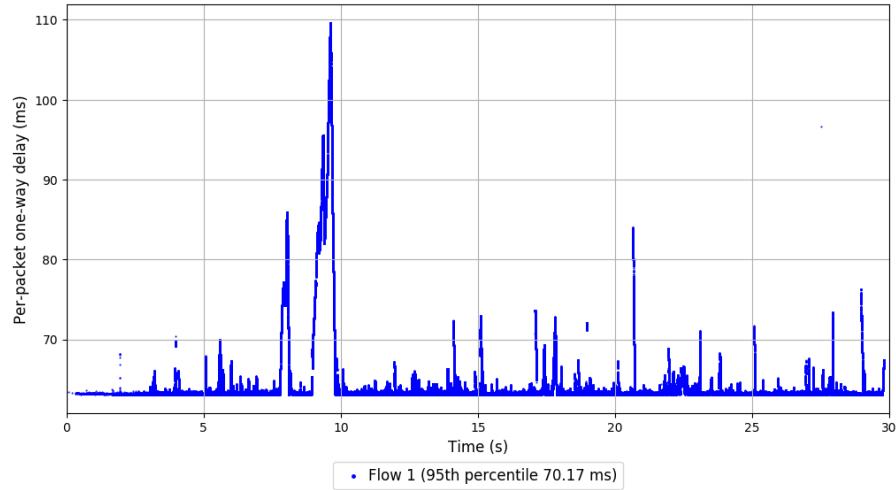
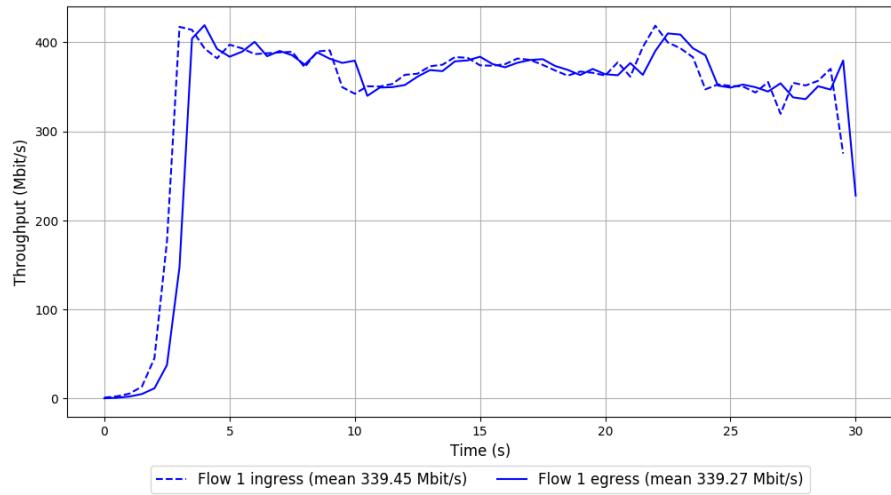


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-07-12 11:07:44
End at: 2019-07-12 11:08:14
Local clock offset: -0.019 ms
Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2019-07-12 13:52:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.27 Mbit/s
95th percentile per-packet one-way delay: 70.167 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 339.27 Mbit/s
95th percentile per-packet one-way delay: 70.167 ms
Loss rate: 0.46%
```

Run 4: Report of PCC-Vivace — Data Link

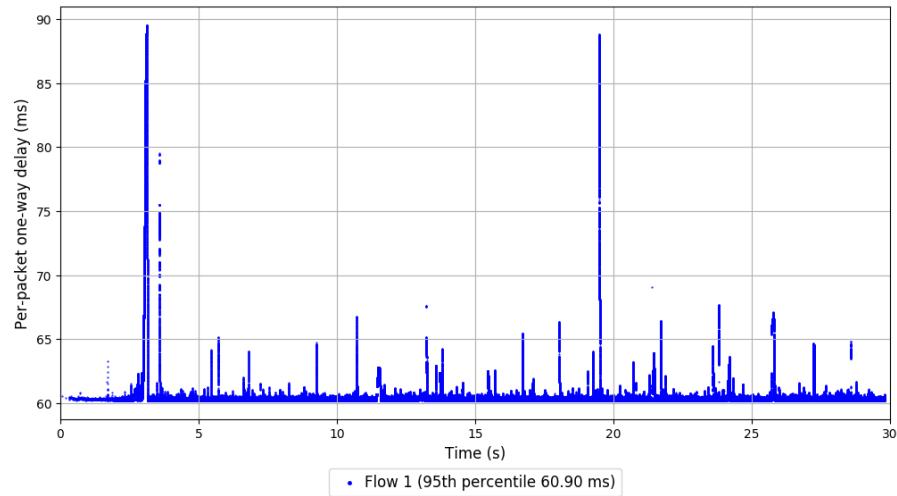
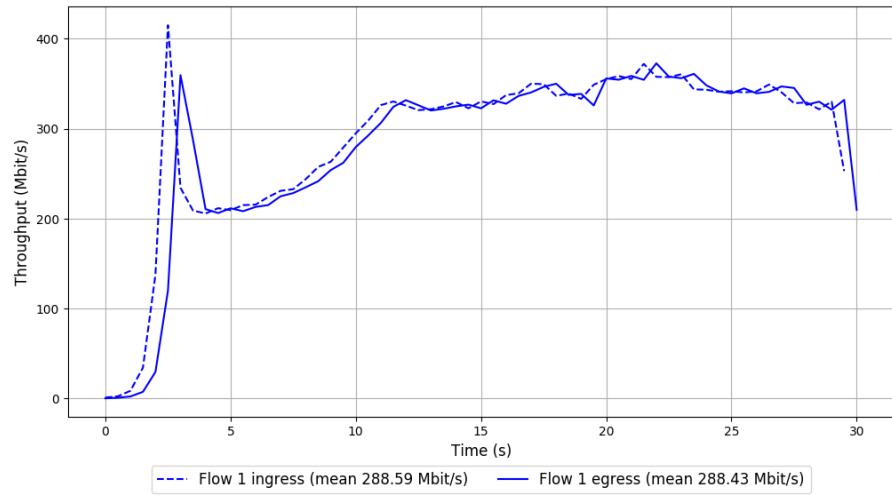


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-07-12 11:42:52
End at: 2019-07-12 11:43:22
Local clock offset: 0.002 ms
Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2019-07-12 13:52:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 288.43 Mbit/s
95th percentile per-packet one-way delay: 60.898 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 288.43 Mbit/s
95th percentile per-packet one-way delay: 60.898 ms
Loss rate: 0.47%
```

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

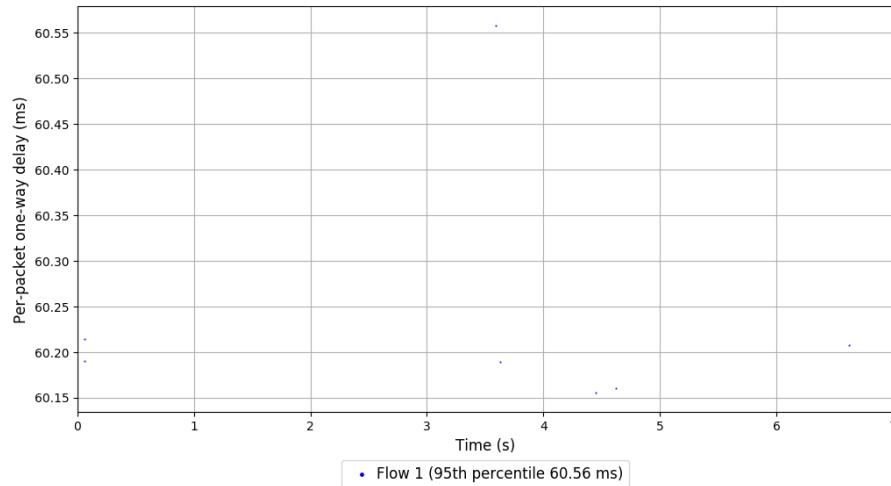
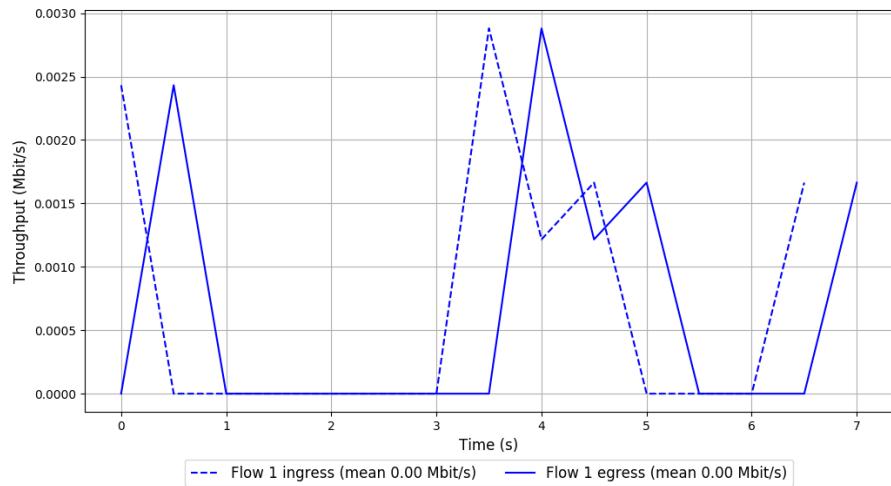
Start at: 2019-07-12 08:48:39

End at: 2019-07-12 08:49:09

Local clock offset: -0.006 ms

Remote clock offset: -0.223 ms

Run 1: Report of WebRTC media — Data Link

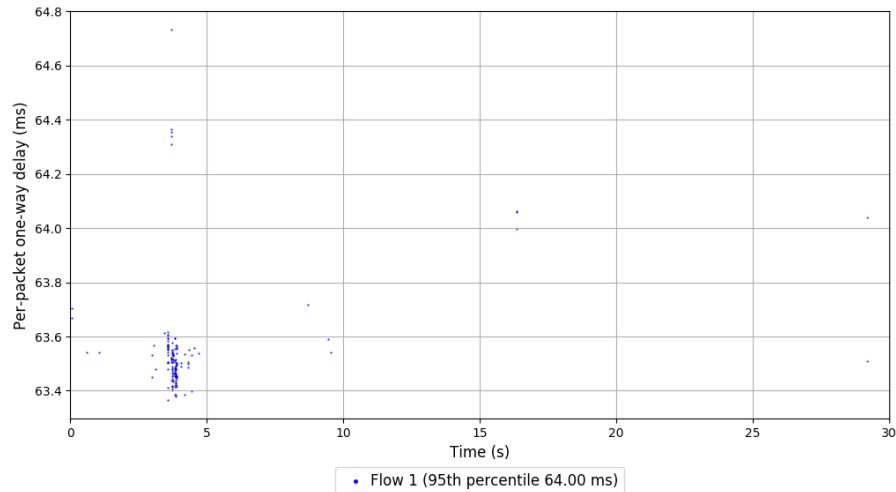
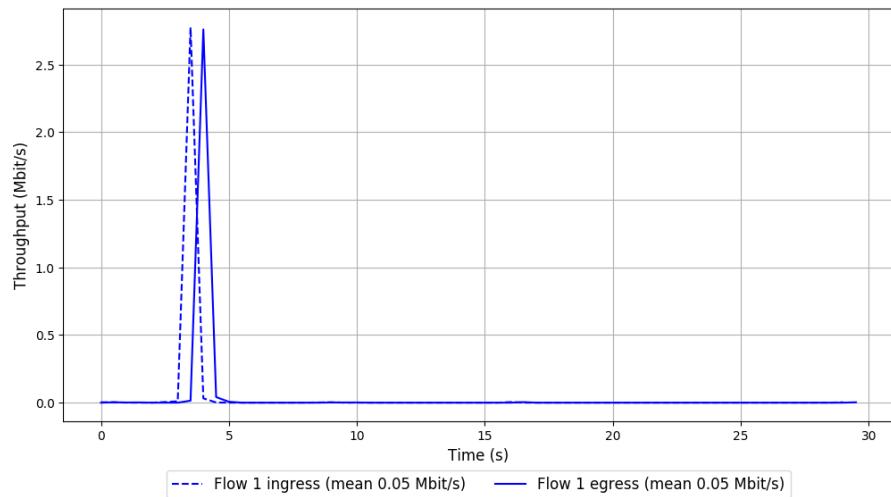


Run 2: Statistics of WebRTC media

```
Start at: 2019-07-12 09:23:29
End at: 2019-07-12 09:23:59
Local clock offset: -0.007 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-07-12 13:52:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.996 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.996 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

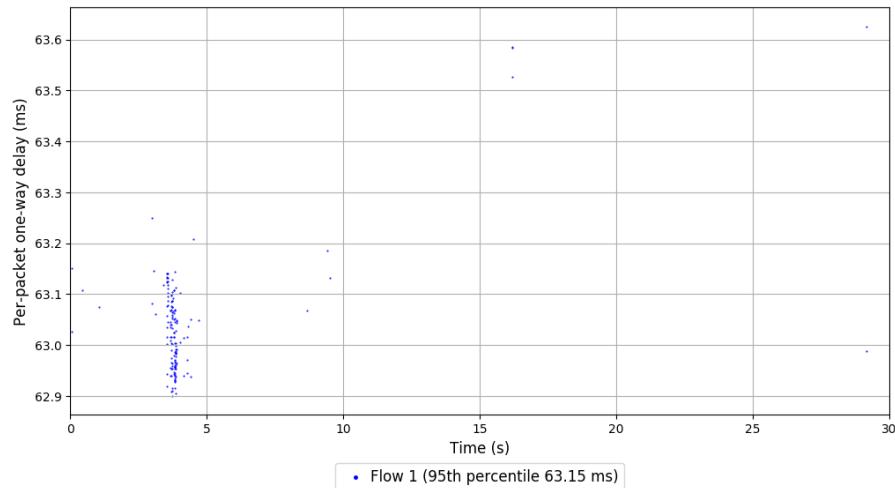
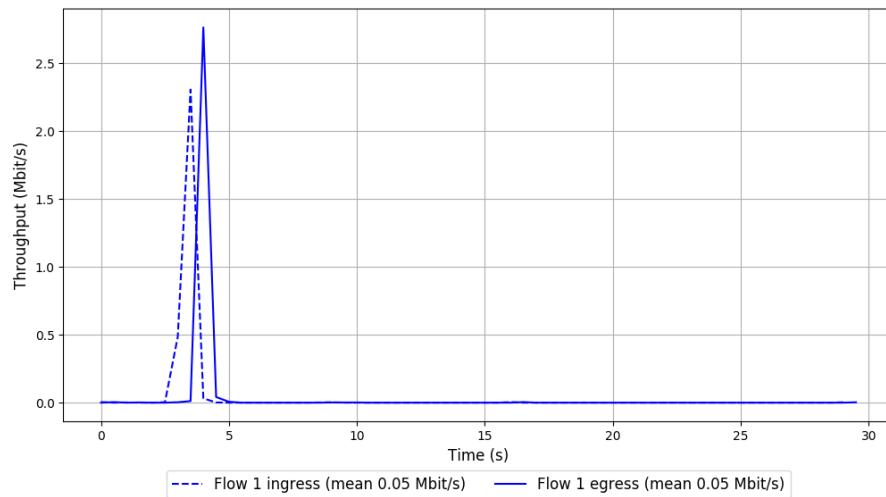


```
Run 3: Statistics of WebRTC media

Start at: 2019-07-12 09:58:43
End at: 2019-07-12 09:59:13
Local clock offset: 0.006 ms
Remote clock offset: -0.257 ms

# Below is generated by plot.py at 2019-07-12 13:52:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.146 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.146 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

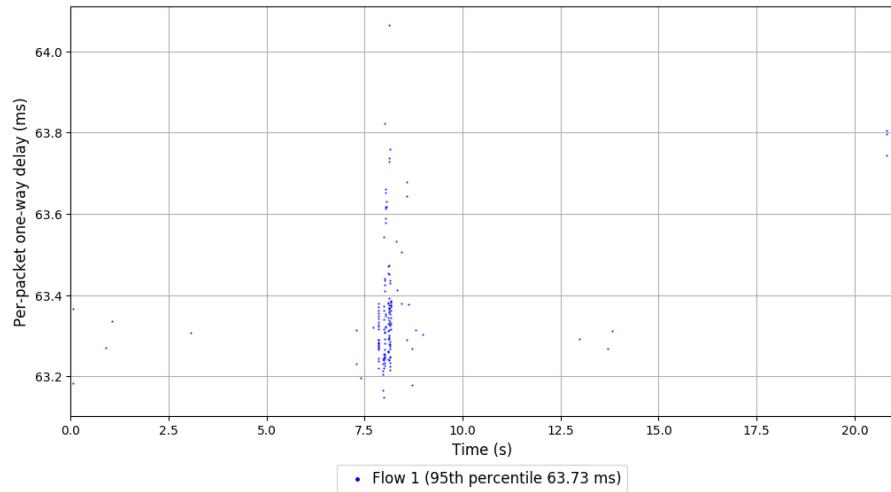
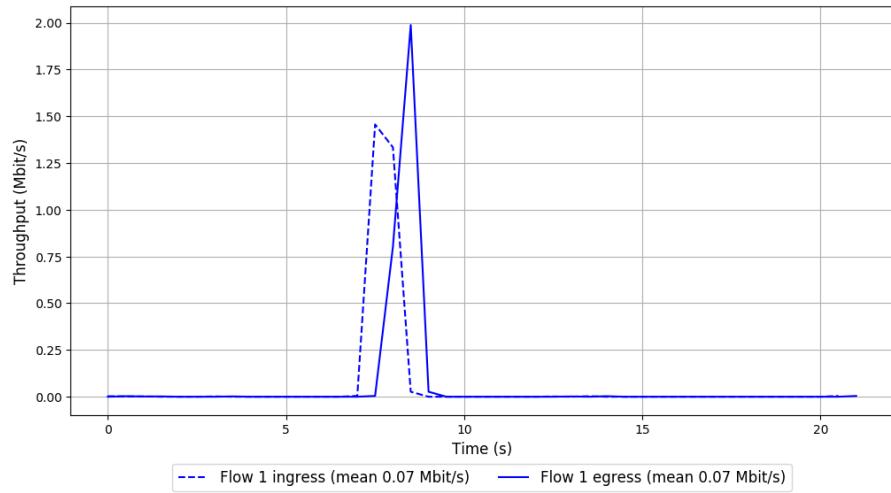
Start at: 2019-07-12 10:33:57

End at: 2019-07-12 10:34:27

Local clock offset: -0.038 ms

Remote clock offset: -0.358 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-07-12 11:09:14
End at: 2019-07-12 11:09:44
Local clock offset: -0.021 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-07-12 13:52:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 65.475 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 65.475 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

