

Pantheon Report

Generated at 2019-01-24 17:47:41 (UTC).
Data path: GCE Tokyo on `ens4` (*local*) → GCE London on `ens4` (*remote*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

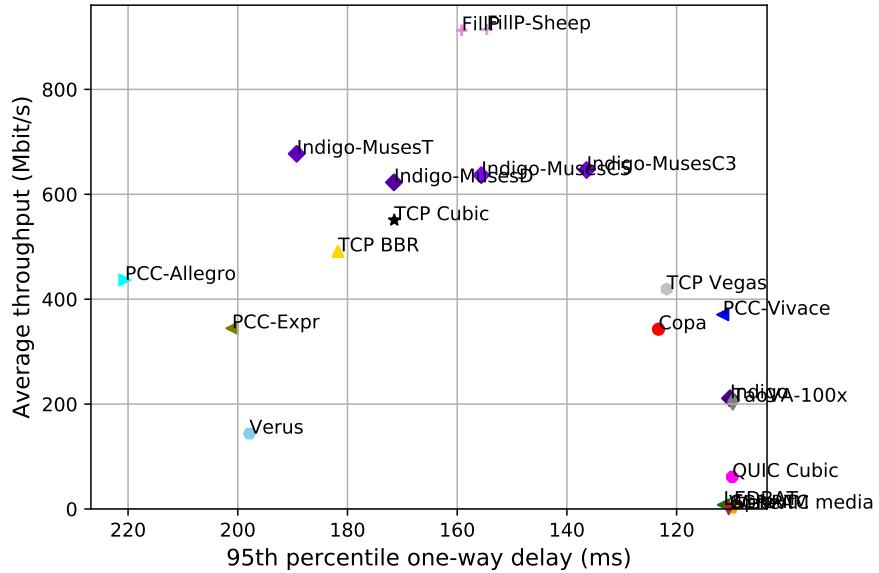
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

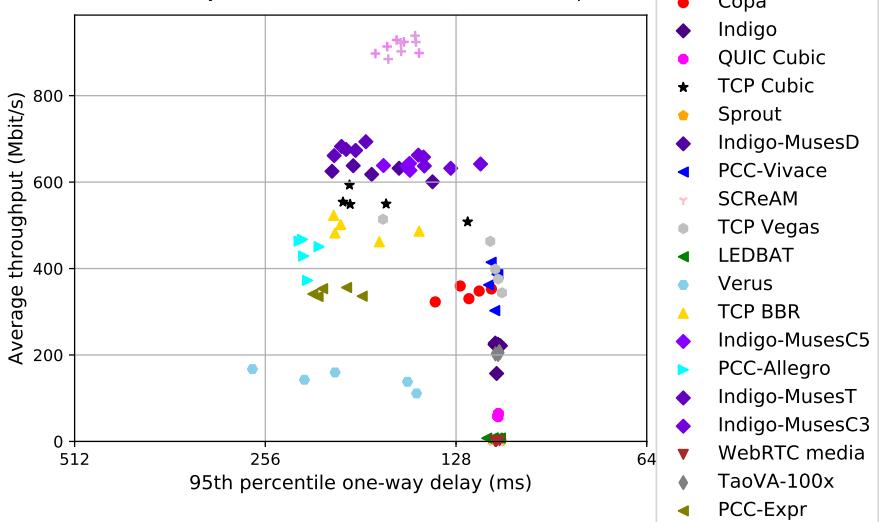
```
branch: muses @ 0b8e9a949603c3842368430acf469eec3b941f9f
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ d9c5ea33091330aca25ecd105ab2db6d34d5c40d
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 London, 5 runs of 30s each per scheme
(mean of all runs by scheme)



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



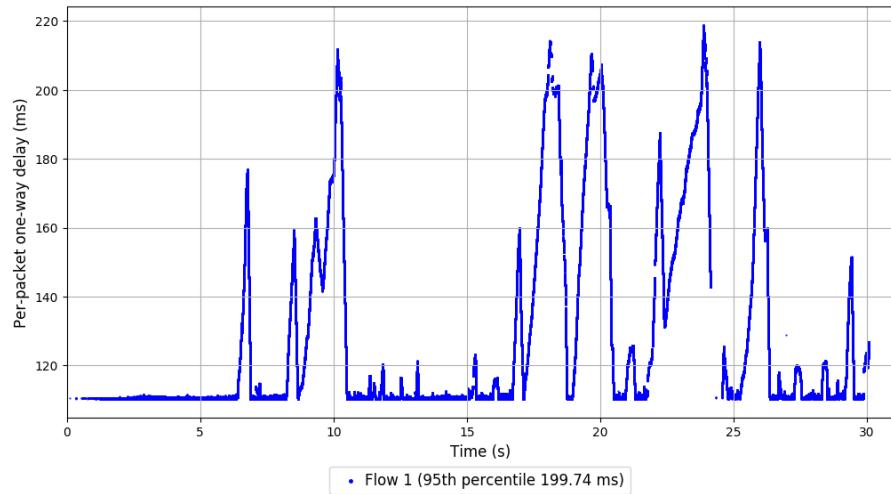
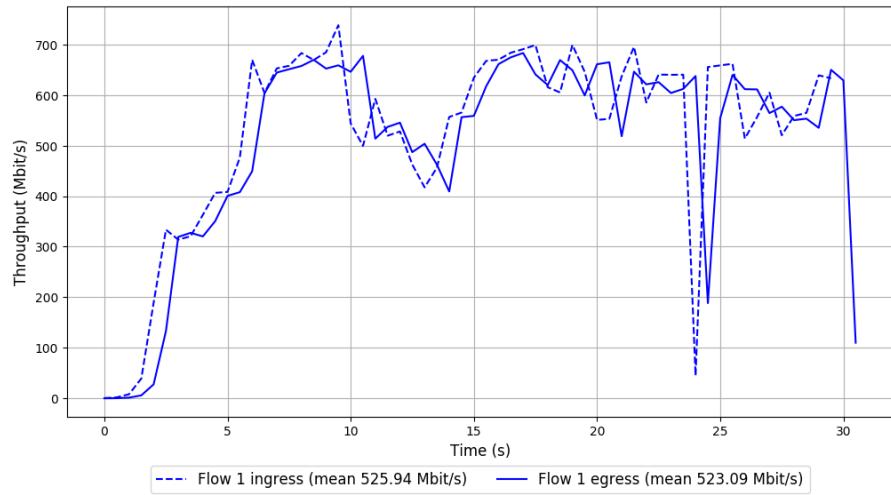
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	491.12	181.73	0.38
Copa	5	342.74	123.30	0.02
TCP Cubic	5	550.74	171.47	0.16
FillP	5	912.64	159.18	0.88
FillP-Sheep	5	914.49	154.61	0.65
Indigo	5	211.00	110.27	0.00
Indigo-MusesC3	5	646.31	136.41	0.03
Indigo-MusesC5	4	636.58	155.60	0.11
Indigo-MusesD	5	622.73	171.53	0.32
Indigo-MusesT	5	677.24	189.26	0.36
LEDBAT	5	7.79	111.46	0.00
PCC-Allegro	5	436.57	220.58	3.09
PCC-Expr	5	344.43	201.06	2.60
QUIC Cubic	4	61.11	109.86	0.00
SCReAM	5	0.22	110.28	0.00
Sprout	5	1.78	109.87	0.00
TaoVA-100x	5	204.47	109.75	0.00
TCP Vegas	5	419.09	121.82	0.03
Verus	5	143.76	197.89	3.85
PCC-Vivace	5	370.54	111.59	0.00
WebRTC media	5	0.76	110.51	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-24 13:18:10
End at: 2019-01-24 13:18:40
Local clock offset: 10.187 ms
Remote clock offset: 13.01 ms

# Below is generated by plot.py at 2019-01-24 16:05:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 523.09 Mbit/s
95th percentile per-packet one-way delay: 199.735 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 523.09 Mbit/s
95th percentile per-packet one-way delay: 199.735 ms
Loss rate: 0.54%
```

Run 1: Report of TCP BBR — Data Link

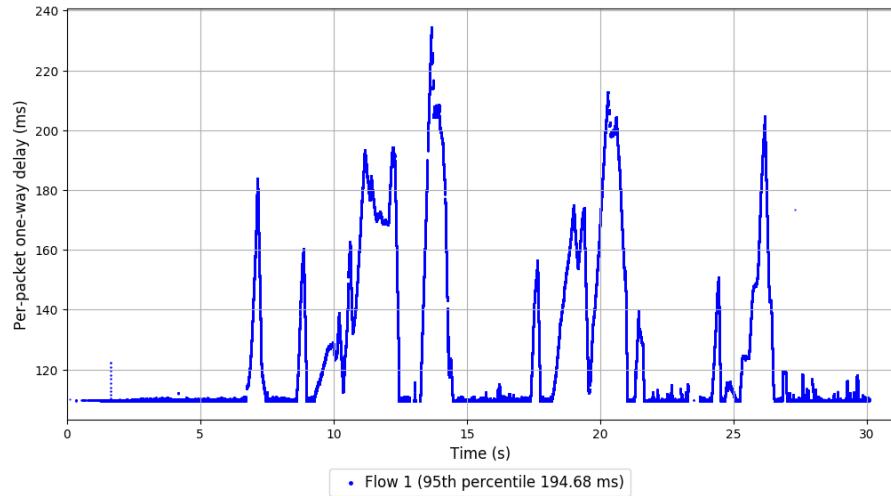
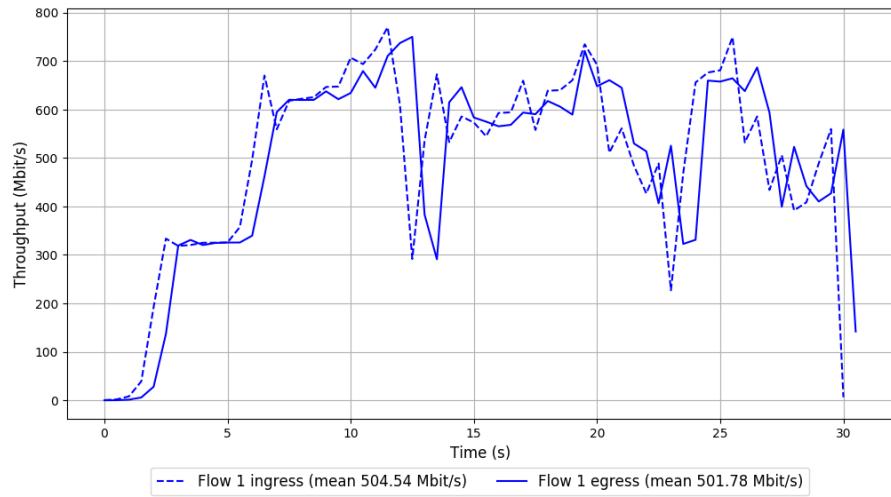


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-24 13:50:37
End at: 2019-01-24 13:51:07
Local clock offset: 17.951 ms
Remote clock offset: 21.412 ms

# Below is generated by plot.py at 2019-01-24 16:05:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 501.78 Mbit/s
95th percentile per-packet one-way delay: 194.684 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 501.78 Mbit/s
95th percentile per-packet one-way delay: 194.684 ms
Loss rate: 0.55%
```

Run 2: Report of TCP BBR — Data Link

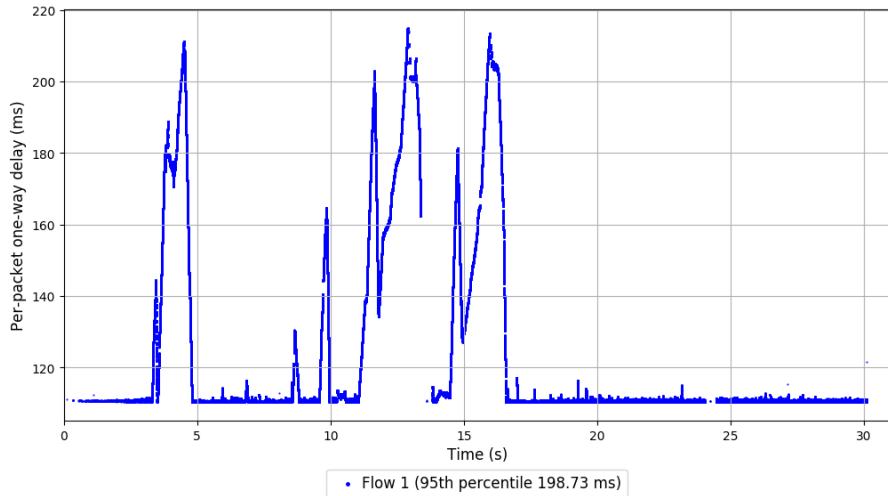
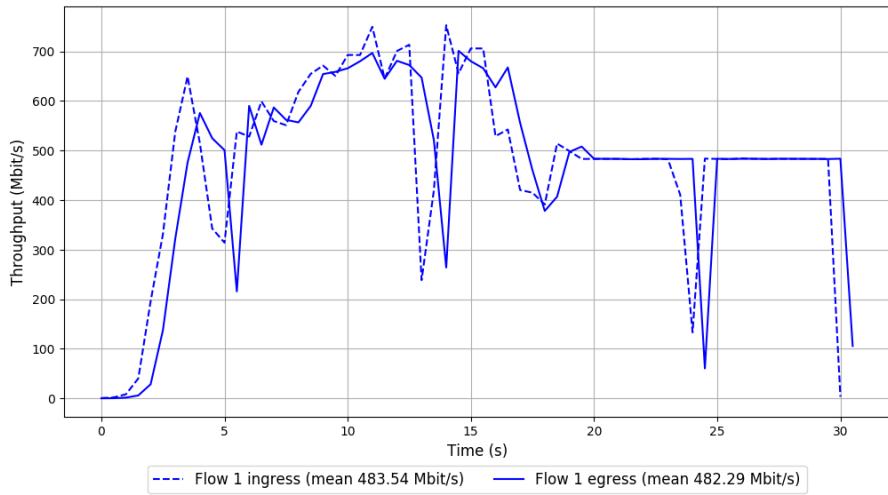


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-24 14:23:02
End at: 2019-01-24 14:23:32
Local clock offset: 7.081 ms
Remote clock offset: 13.892 ms

# Below is generated by plot.py at 2019-01-24 16:05:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 482.29 Mbit/s
95th percentile per-packet one-way delay: 198.734 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 482.29 Mbit/s
95th percentile per-packet one-way delay: 198.734 ms
Loss rate: 0.24%
```

Run 3: Report of TCP BBR — Data Link

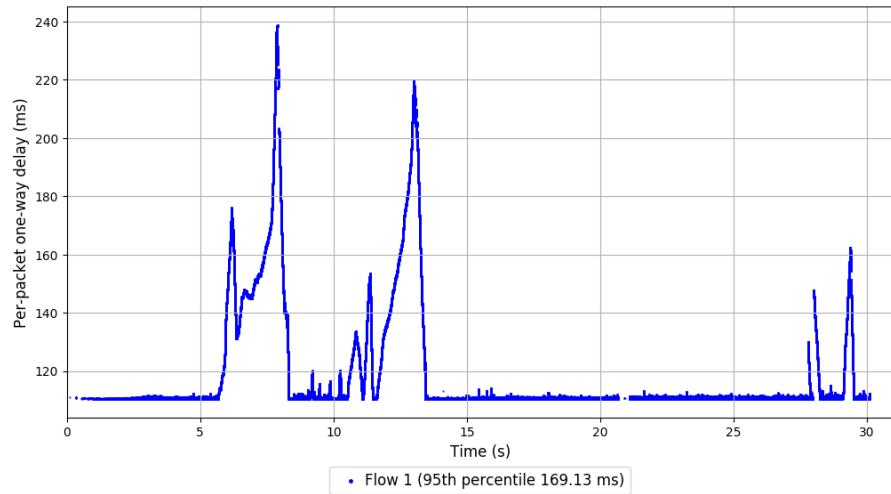
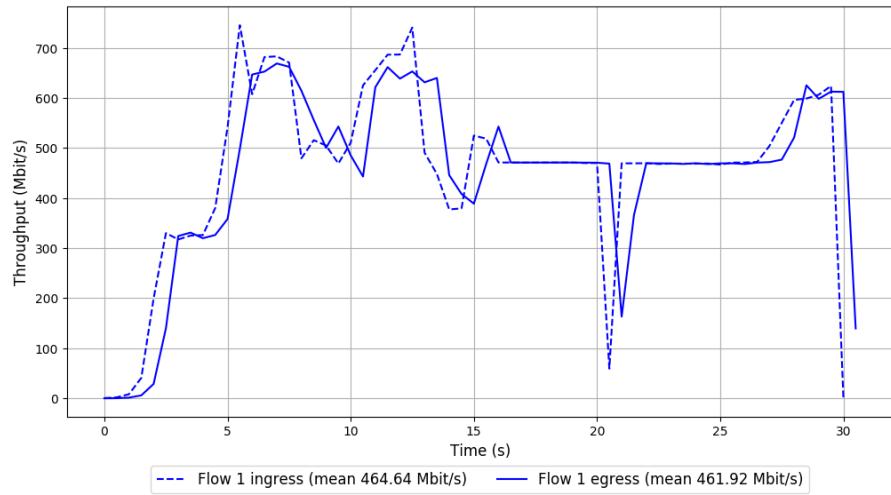


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-24 14:55:44
End at: 2019-01-24 14:56:14
Local clock offset: 1.976 ms
Remote clock offset: 5.252 ms

# Below is generated by plot.py at 2019-01-24 16:05:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 461.92 Mbit/s
95th percentile per-packet one-way delay: 169.133 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 461.92 Mbit/s
95th percentile per-packet one-way delay: 169.133 ms
Loss rate: 0.58%
```

Run 4: Report of TCP BBR — Data Link

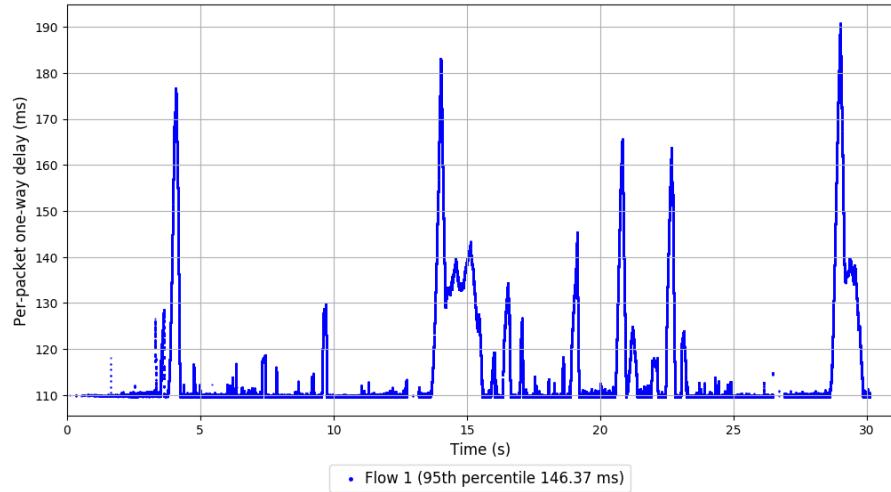
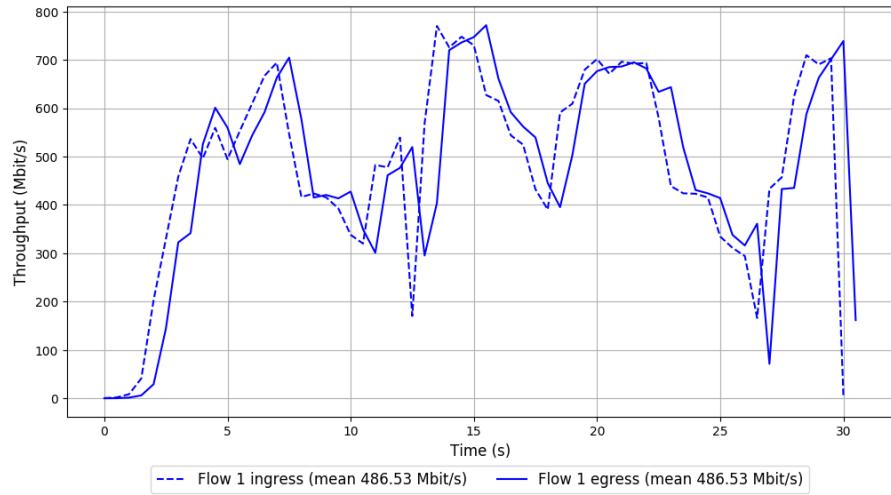


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-24 15:28:07
End at: 2019-01-24 15:28:37
Local clock offset: -0.082 ms
Remote clock offset: 1.486 ms

# Below is generated by plot.py at 2019-01-24 16:05:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 486.53 Mbit/s
95th percentile per-packet one-way delay: 146.369 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 486.53 Mbit/s
95th percentile per-packet one-way delay: 146.369 ms
Loss rate: 0.00%
```

Run 5: Report of TCP BBR — Data Link

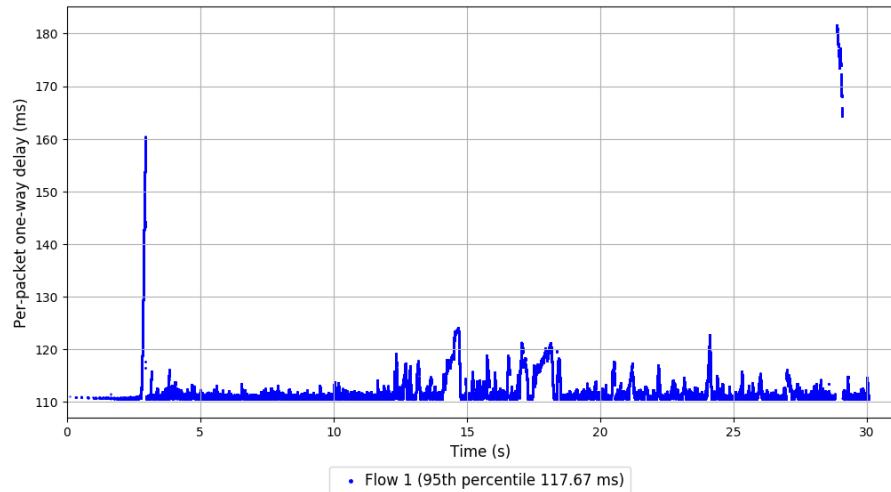
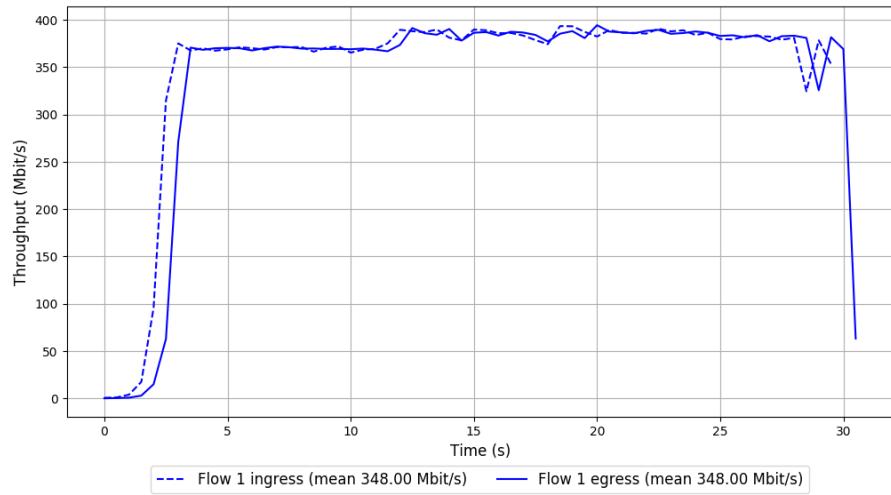


Run 1: Statistics of Copa

```
Start at: 2019-01-24 13:10:41
End at: 2019-01-24 13:11:11
Local clock offset: 5.599 ms
Remote clock offset: 8.235 ms

# Below is generated by plot.py at 2019-01-24 16:06:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 348.00 Mbit/s
95th percentile per-packet one-way delay: 117.675 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 348.00 Mbit/s
95th percentile per-packet one-way delay: 117.675 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link

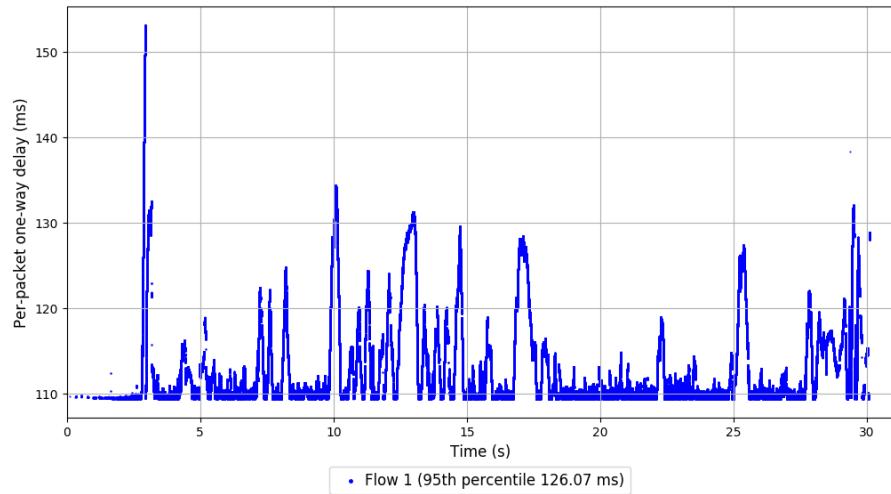
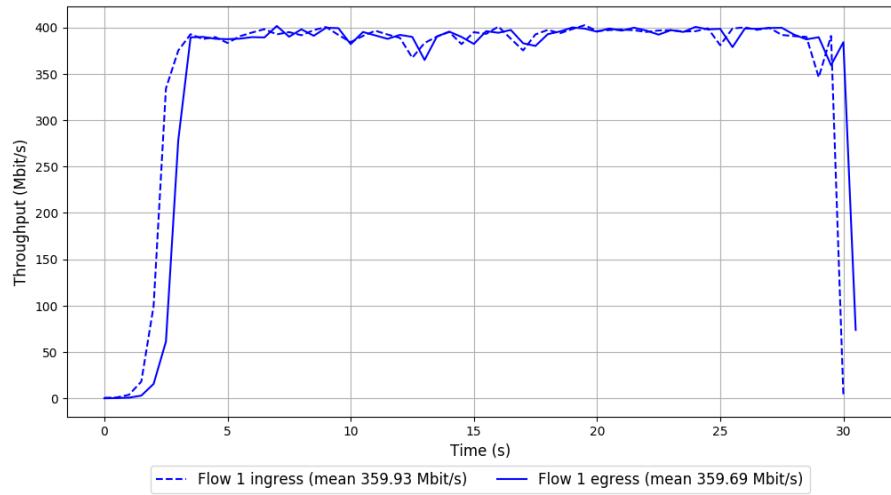


Run 2: Statistics of Copa

```
Start at: 2019-01-24 13:43:10
End at: 2019-01-24 13:43:40
Local clock offset: 15.232 ms
Remote clock offset: 17.958 ms

# Below is generated by plot.py at 2019-01-24 16:07:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.69 Mbit/s
95th percentile per-packet one-way delay: 126.068 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 359.69 Mbit/s
95th percentile per-packet one-way delay: 126.068 ms
Loss rate: 0.06%
```

Run 2: Report of Copa — Data Link

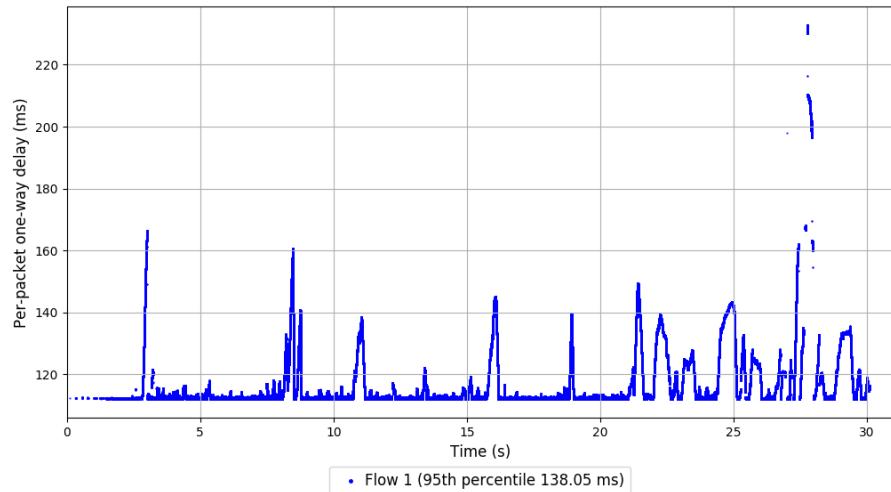
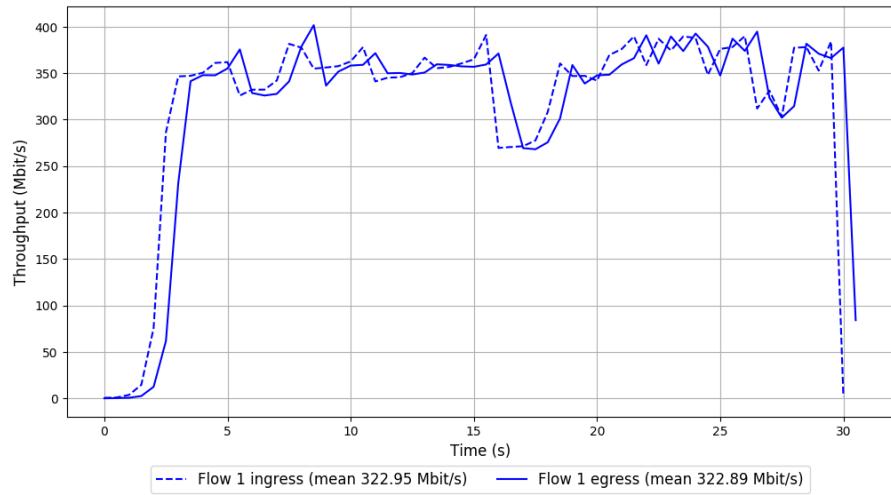


Run 3: Statistics of Copa

```
Start at: 2019-01-24 14:15:37
End at: 2019-01-24 14:16:07
Local clock offset: 14.342 ms
Remote clock offset: 18.59 ms

# Below is generated by plot.py at 2019-01-24 16:07:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.89 Mbit/s
95th percentile per-packet one-way delay: 138.048 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 322.89 Mbit/s
95th percentile per-packet one-way delay: 138.048 ms
Loss rate: 0.03%
```

Run 3: Report of Copa — Data Link

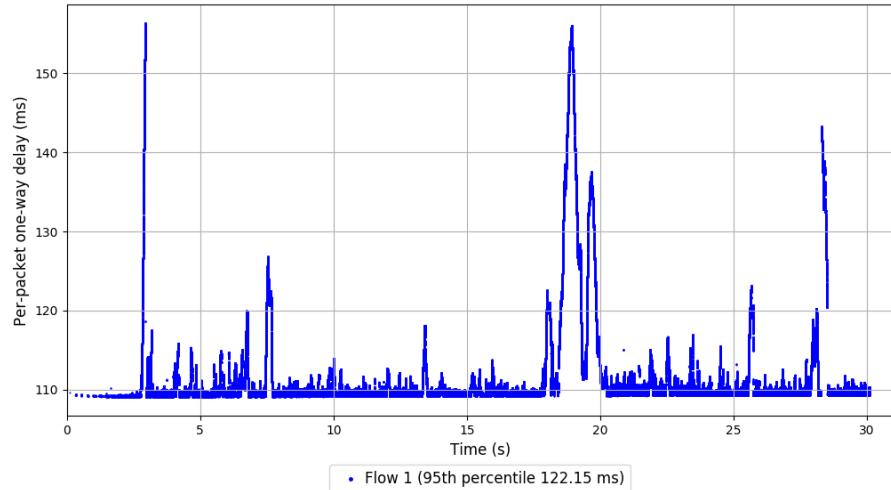
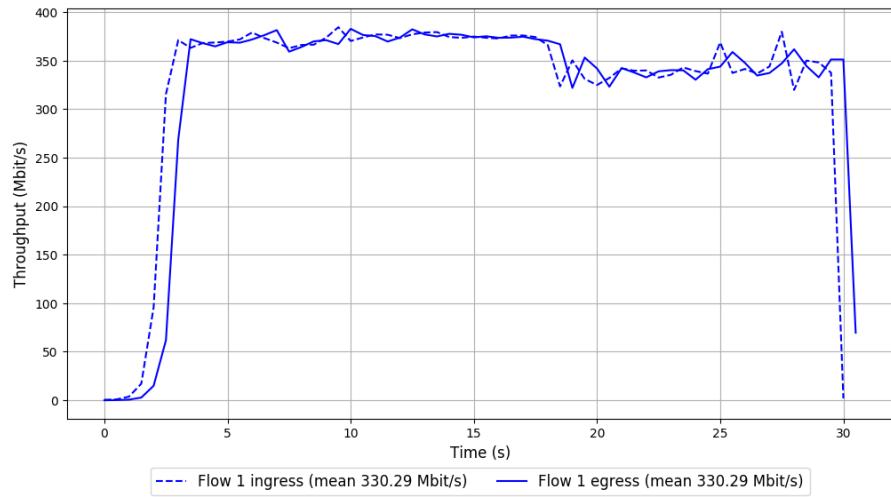


Run 4: Statistics of Copa

```
Start at: 2019-01-24 14:48:10
End at: 2019-01-24 14:48:40
Local clock offset: 4.489 ms
Remote clock offset: 9.245 ms

# Below is generated by plot.py at 2019-01-24 16:14:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.29 Mbit/s
95th percentile per-packet one-way delay: 122.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 330.29 Mbit/s
95th percentile per-packet one-way delay: 122.147 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

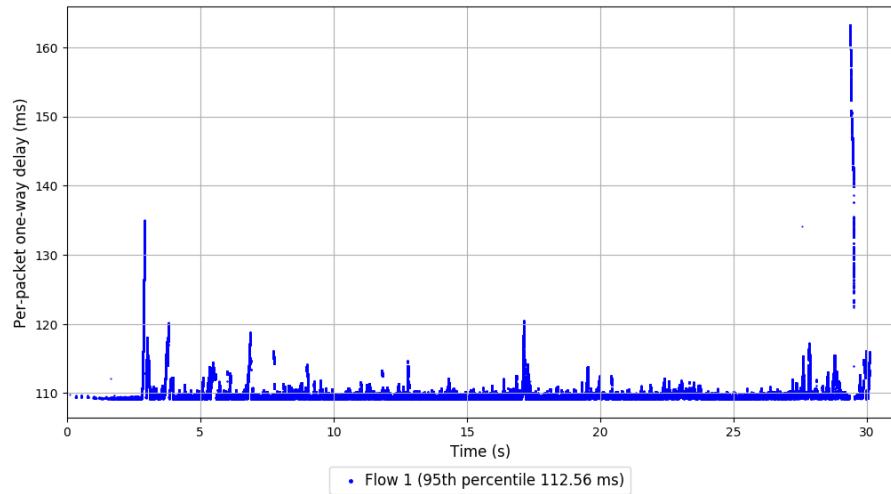
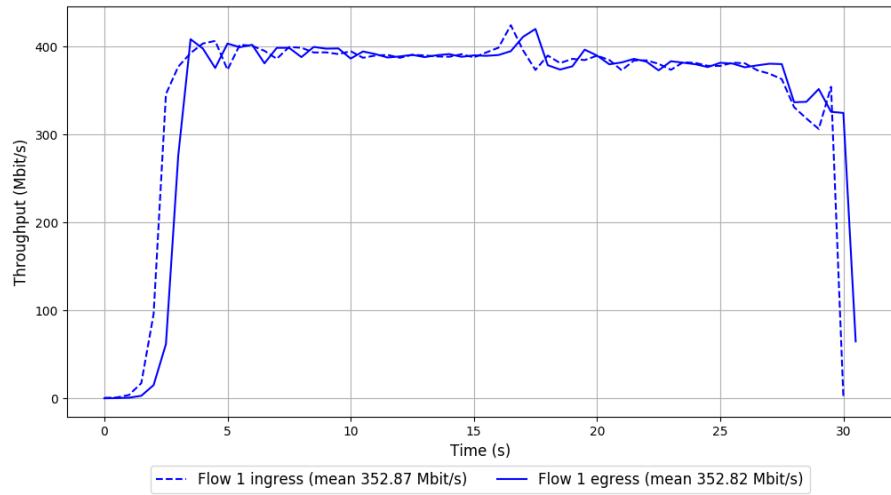


Run 5: Statistics of Copa

```
Start at: 2019-01-24 15:20:34
End at: 2019-01-24 15:21:04
Local clock offset: 2.35 ms
Remote clock offset: 2.671 ms

# Below is generated by plot.py at 2019-01-24 16:16:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.82 Mbit/s
95th percentile per-packet one-way delay: 112.562 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 352.82 Mbit/s
95th percentile per-packet one-way delay: 112.562 ms
Loss rate: 0.01%
```

Run 5: Report of Copa — Data Link



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

```
Start at: 2019-01-24 13:12:26
```

```
End at: 2019-01-24 13:12:56
```

```
Local clock offset: 8.192 ms
```

```
Remote clock offset: 10.446 ms
```

```
# Below is generated by plot.py at 2019-01-24 16:16:19
```

```
# Datalink statistics
```

```
-- Total of 1 flow:
```

```
Average throughput: 553.98 Mbit/s
```

```
95th percentile per-packet one-way delay: 193.035 ms
```

```
Loss rate: 0.37%
```

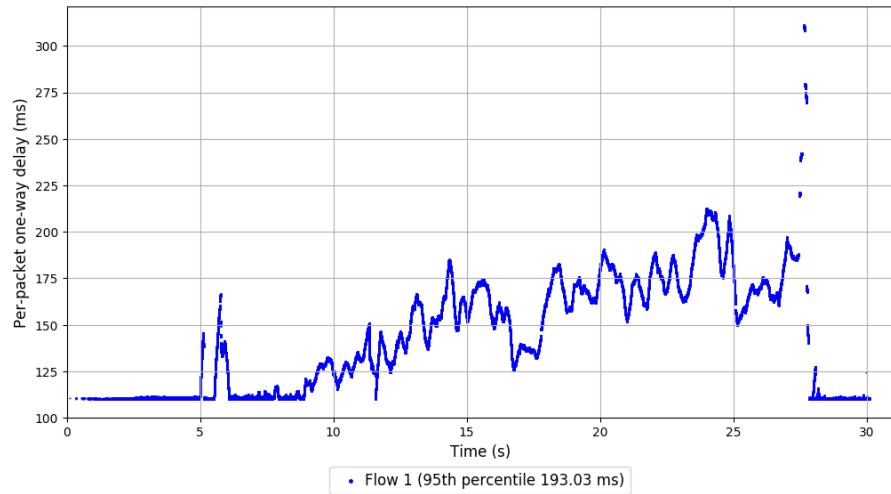
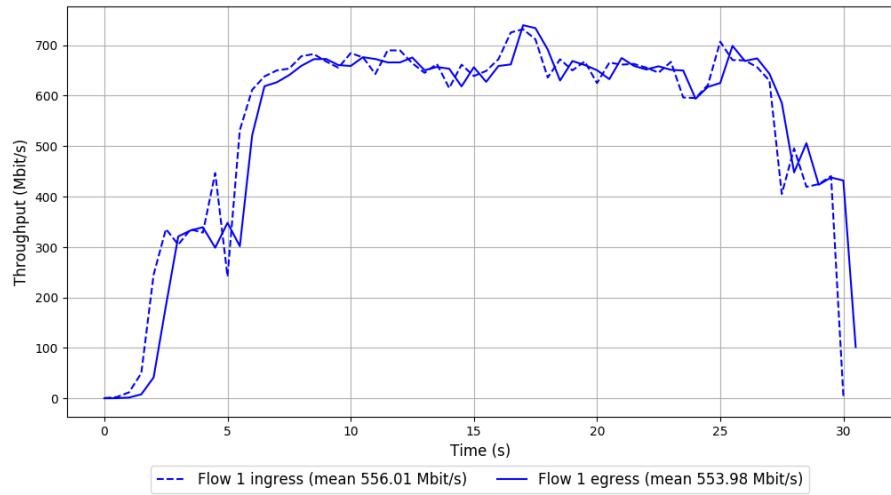
```
-- Flow 1:
```

```
Average throughput: 553.98 Mbit/s
```

```
95th percentile per-packet one-way delay: 193.035 ms
```

```
Loss rate: 0.37%
```

Run 1: Report of TCP Cubic — Data Link

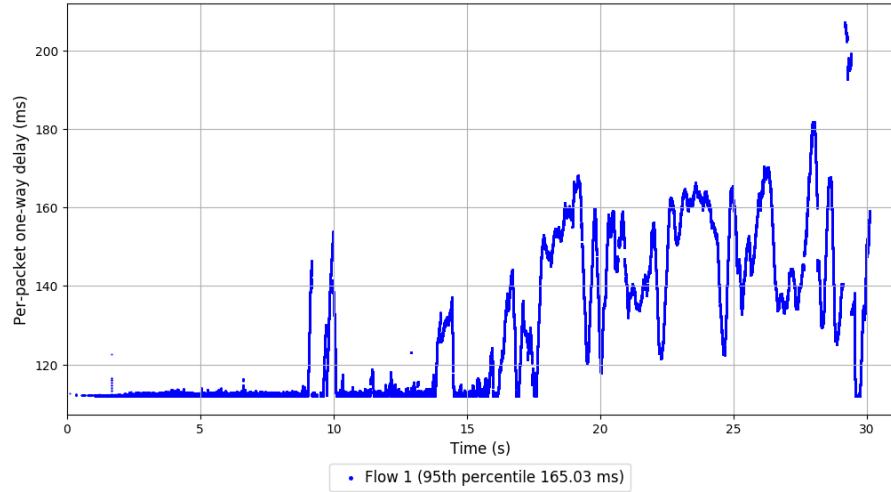
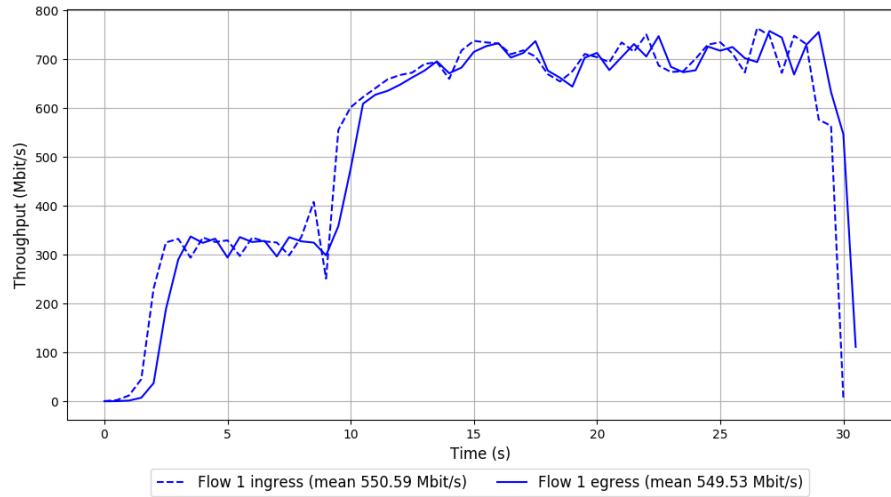


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-24 13:44:56
End at: 2019-01-24 13:45:26
Local clock offset: 15.556 ms
Remote clock offset: 18.336 ms

# Below is generated by plot.py at 2019-01-24 16:16:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 549.53 Mbit/s
95th percentile per-packet one-way delay: 165.029 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 549.53 Mbit/s
95th percentile per-packet one-way delay: 165.029 ms
Loss rate: 0.20%
```

Run 2: Report of TCP Cubic — Data Link

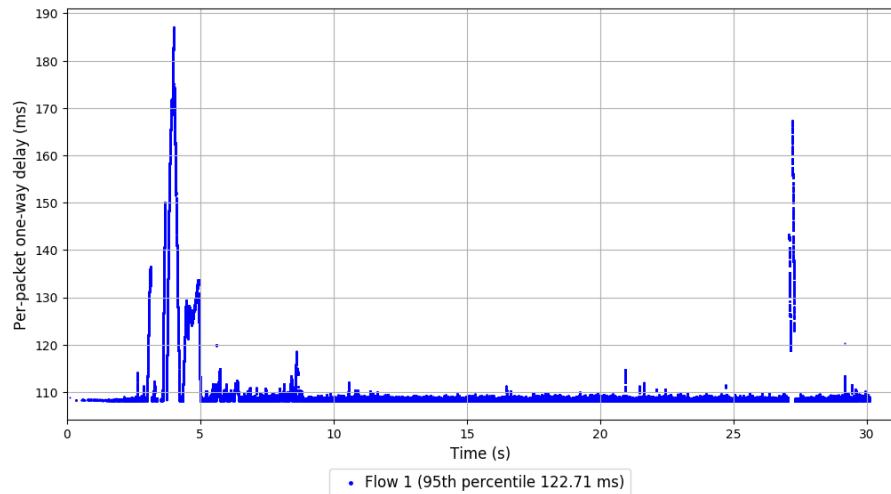
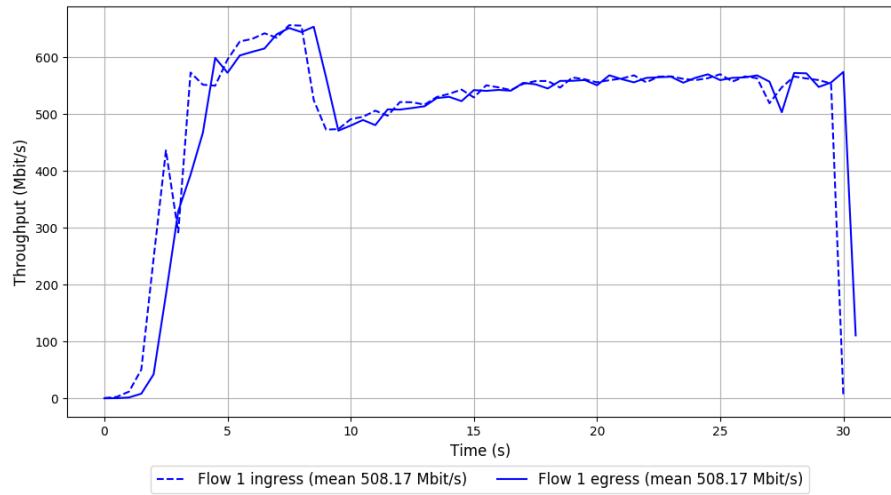


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-24 14:17:19
End at: 2019-01-24 14:17:49
Local clock offset: 12.719 ms
Remote clock offset: 16.692 ms

# Below is generated by plot.py at 2019-01-24 16:16:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 508.17 Mbit/s
95th percentile per-packet one-way delay: 122.709 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 508.17 Mbit/s
95th percentile per-packet one-way delay: 122.709 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Cubic — Data Link

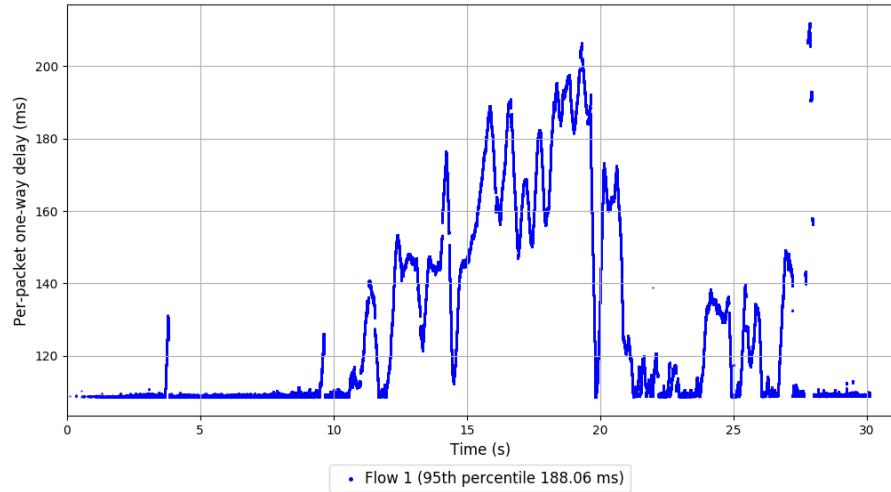
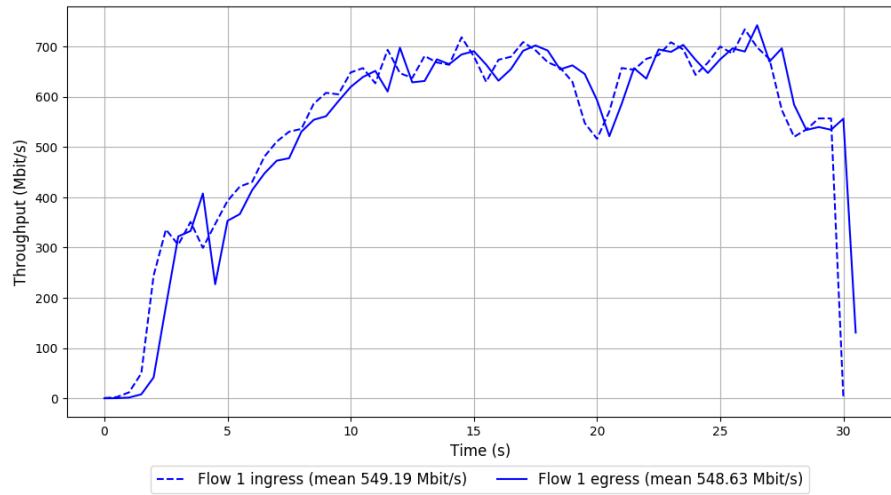


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-24 14:49:53
End at: 2019-01-24 14:50:23
Local clock offset: 4.463 ms
Remote clock offset: 7.902 ms

# Below is generated by plot.py at 2019-01-24 16:16:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 548.63 Mbit/s
95th percentile per-packet one-way delay: 188.060 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 548.63 Mbit/s
95th percentile per-packet one-way delay: 188.060 ms
Loss rate: 0.10%
```

Run 4: Report of TCP Cubic — Data Link

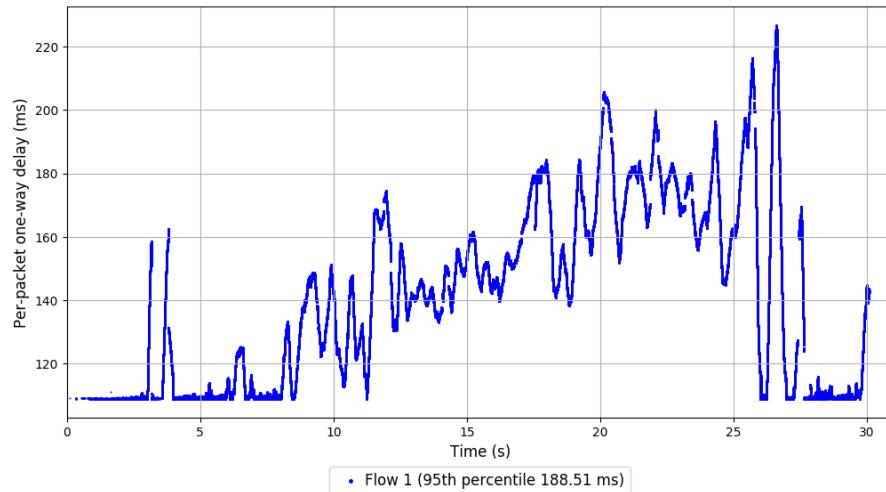
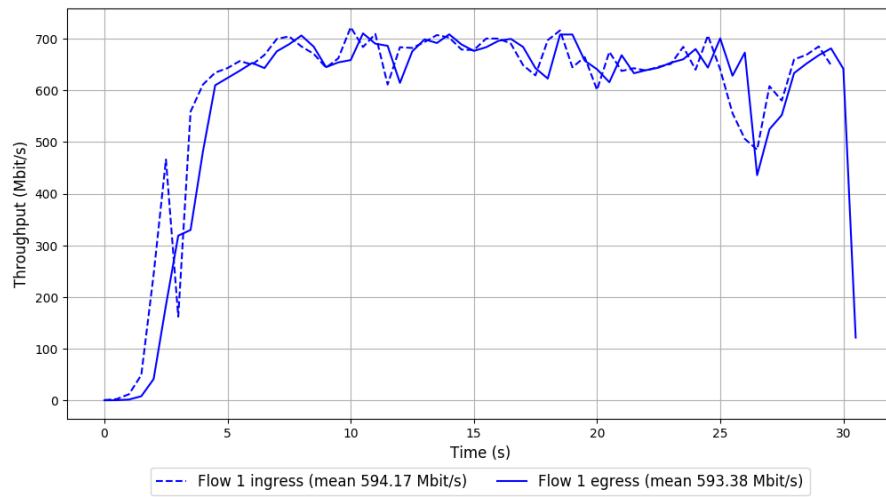


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-24 15:22:20
End at: 2019-01-24 15:22:50
Local clock offset: 1.991 ms
Remote clock offset: 1.93 ms

# Below is generated by plot.py at 2019-01-24 16:17:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.38 Mbit/s
95th percentile per-packet one-way delay: 188.515 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 593.38 Mbit/s
95th percentile per-packet one-way delay: 188.515 ms
Loss rate: 0.13%
```

Run 5: Report of TCP Cubic — Data Link

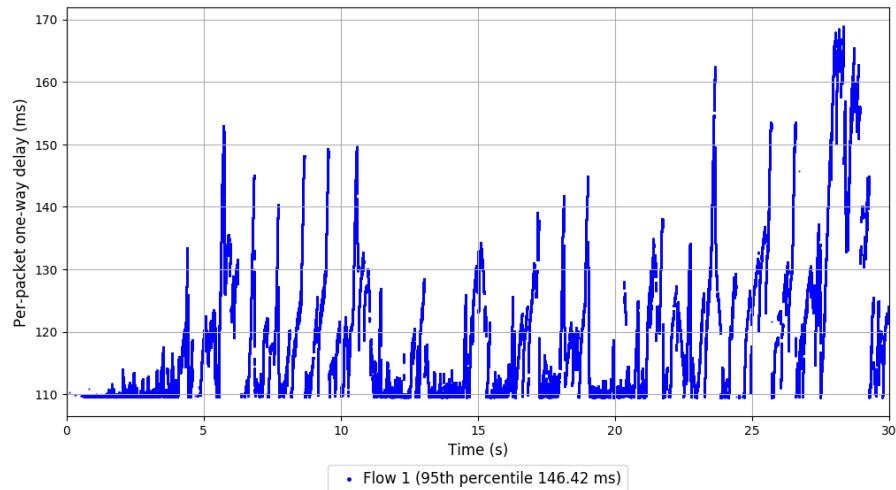
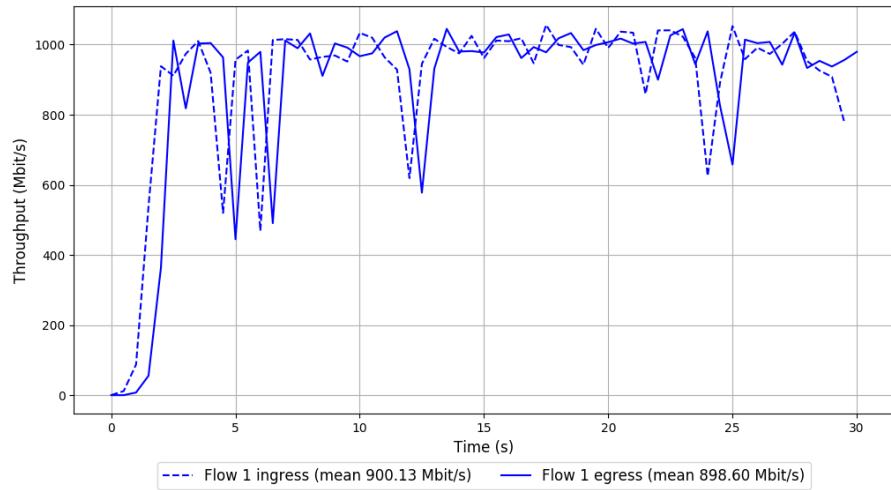


```
Run 1: Statistics of FillP

Start at: 2019-01-24 13:06:00
End at: 2019-01-24 13:06:30
Local clock offset: 5.431 ms
Remote clock offset: 7.115 ms

# Below is generated by plot.py at 2019-01-24 16:24:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 898.60 Mbit/s
95th percentile per-packet one-way delay: 146.423 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 898.60 Mbit/s
95th percentile per-packet one-way delay: 146.423 ms
Loss rate: 0.17%
```

Run 1: Report of FillP — Data Link

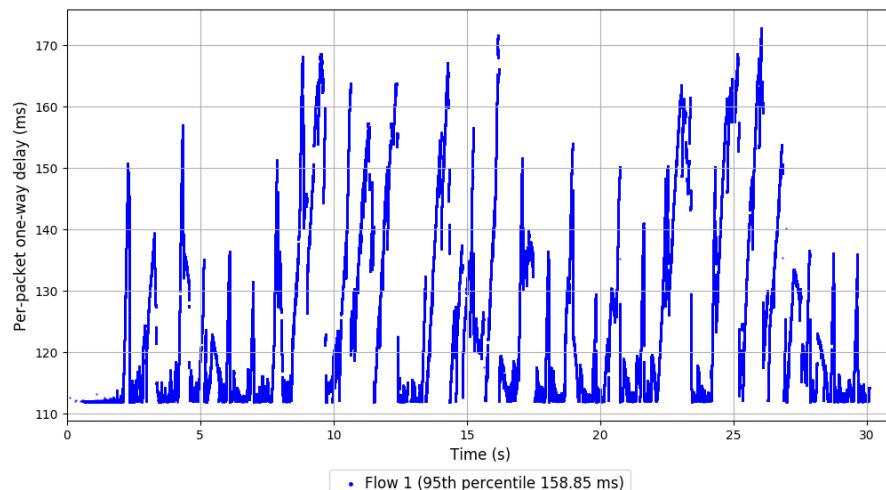
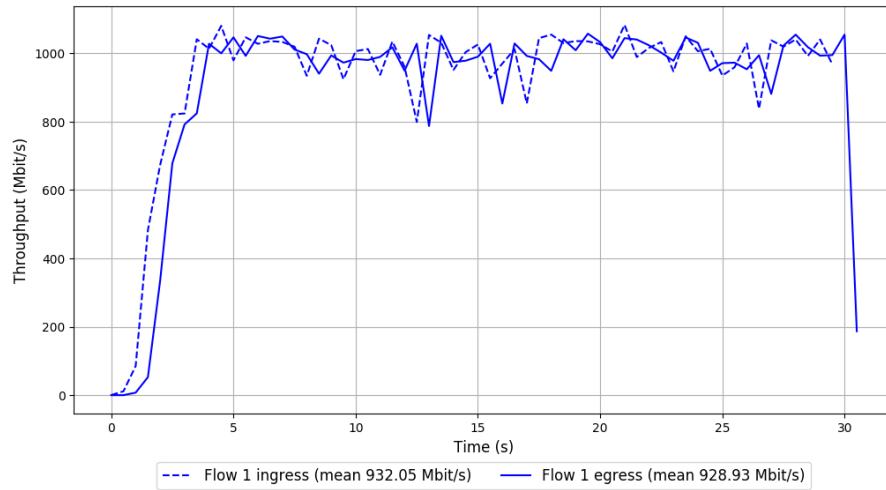


Run 2: Statistics of FillP

```
Start at: 2019-01-24 13:38:26
End at: 2019-01-24 13:38:56
Local clock offset: 15.983 ms
Remote clock offset: 18.662 ms

# Below is generated by plot.py at 2019-01-24 16:35:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 928.93 Mbit/s
95th percentile per-packet one-way delay: 158.855 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 928.93 Mbit/s
95th percentile per-packet one-way delay: 158.855 ms
Loss rate: 0.34%
```

Run 2: Report of FillP — Data Link

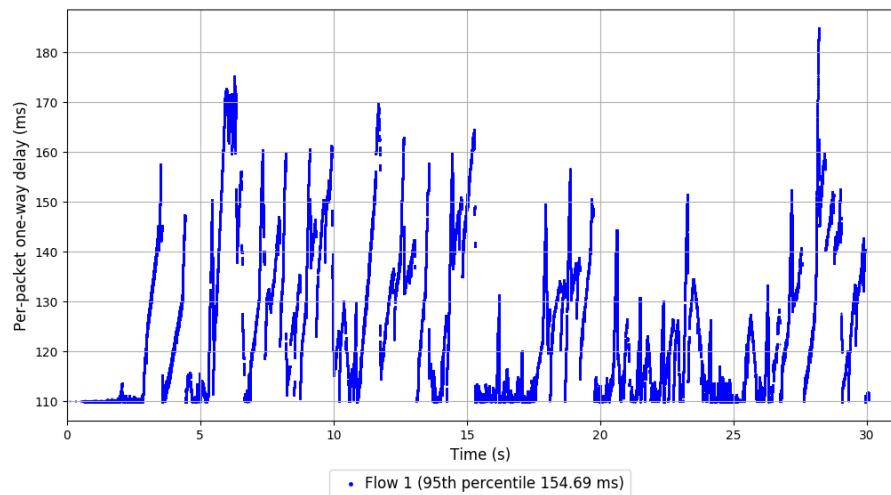
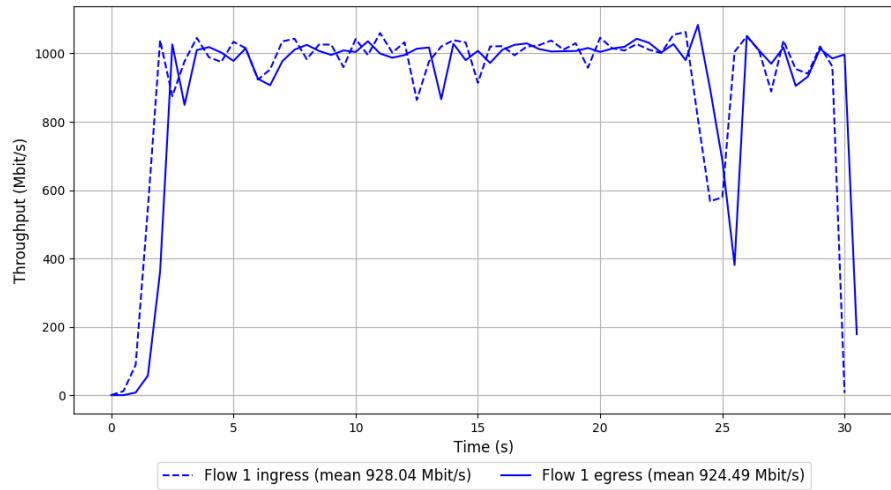


Run 3: Statistics of FillP

```
Start at: 2019-01-24 14:10:53
End at: 2019-01-24 14:11:23
Local clock offset: 21.183 ms
Remote clock offset: 26.204 ms

# Below is generated by plot.py at 2019-01-24 16:35:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 924.49 Mbit/s
95th percentile per-packet one-way delay: 154.686 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 924.49 Mbit/s
95th percentile per-packet one-way delay: 154.686 ms
Loss rate: 0.47%
```

Run 3: Report of FillP — Data Link

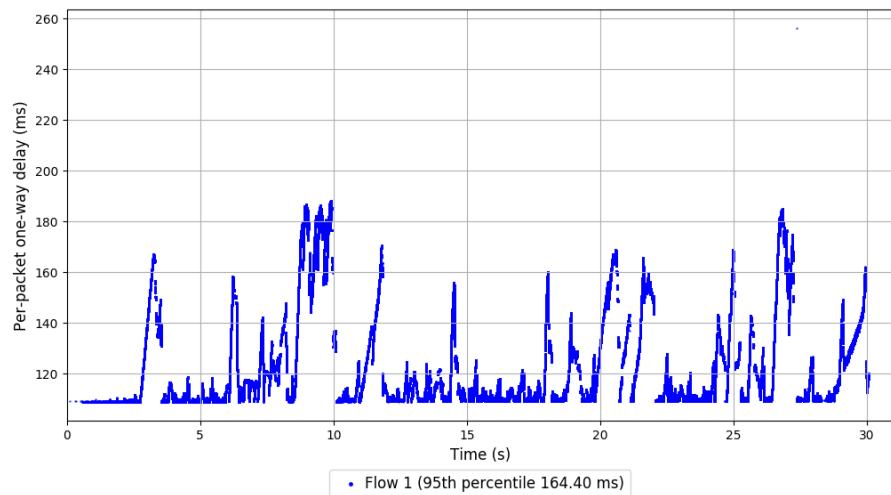
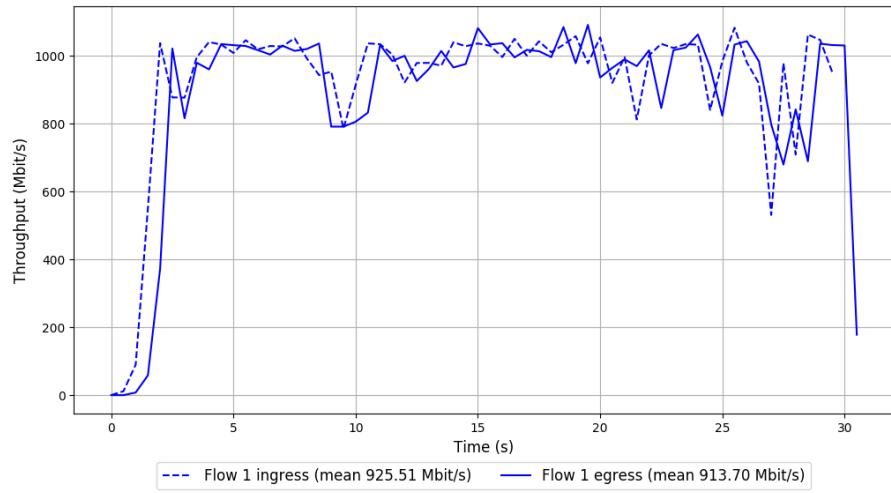


Run 4: Statistics of FillP

```
Start at: 2019-01-24 14:43:27
End at: 2019-01-24 14:43:57
Local clock offset: 6.887 ms
Remote clock offset: 15.063 ms

# Below is generated by plot.py at 2019-01-24 16:35:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 913.70 Mbit/s
95th percentile per-packet one-way delay: 164.395 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 913.70 Mbit/s
95th percentile per-packet one-way delay: 164.395 ms
Loss rate: 1.27%
```

Run 4: Report of FillP — Data Link

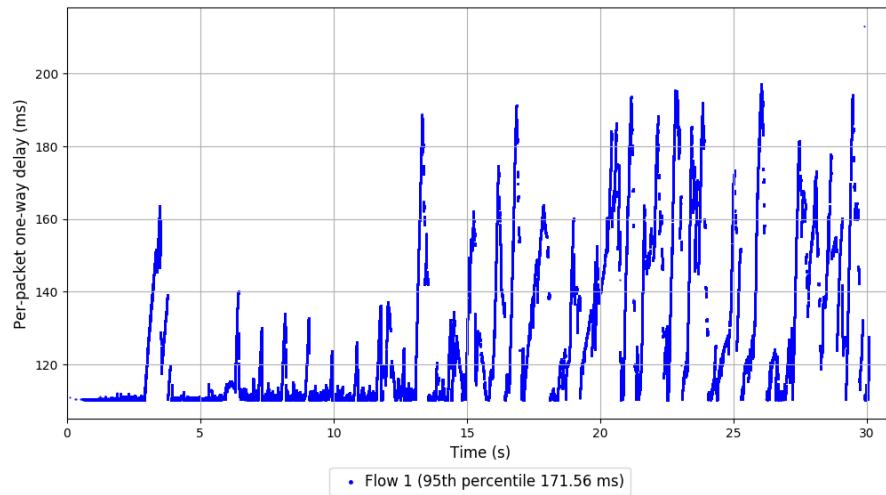
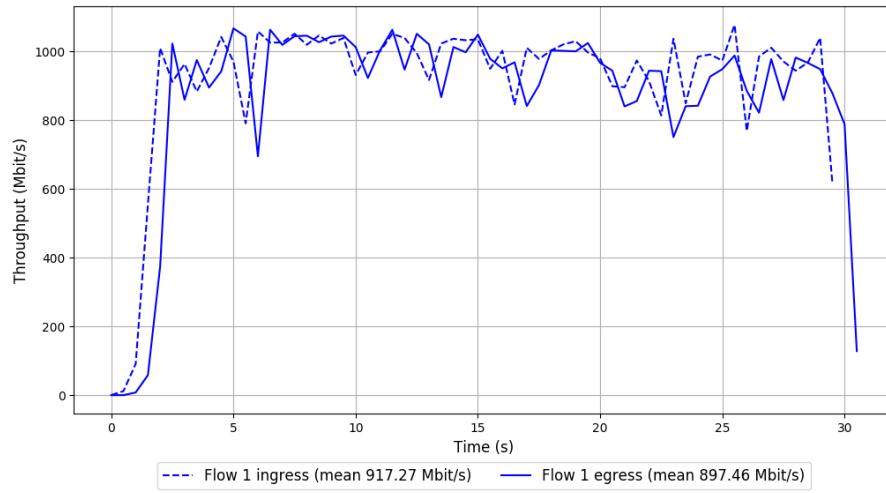


```
Run 5: Statistics of FillP
```

```
Start at: 2019-01-24 15:15:51
End at: 2019-01-24 15:16:21
Local clock offset: 2.286 ms
Remote clock offset: 4.421 ms

# Below is generated by plot.py at 2019-01-24 16:35:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 897.46 Mbit/s
95th percentile per-packet one-way delay: 171.562 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 897.46 Mbit/s
95th percentile per-packet one-way delay: 171.562 ms
Loss rate: 2.16%
```

Run 5: Report of FillP — Data Link

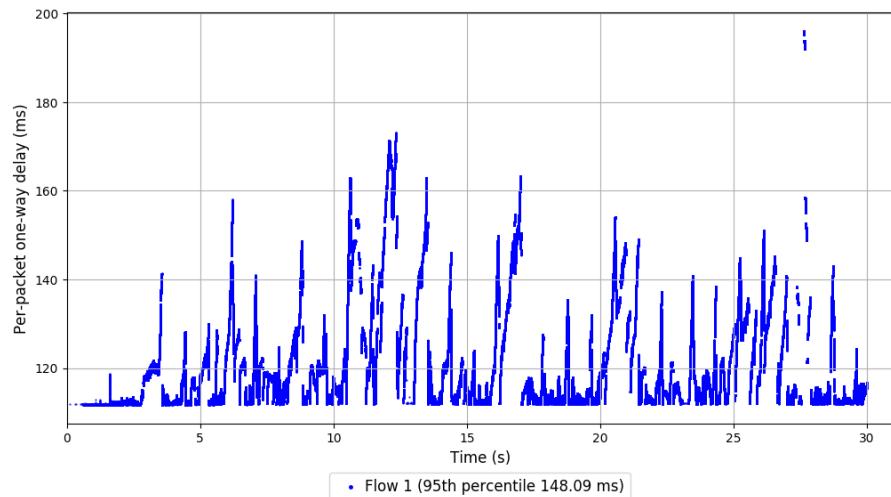
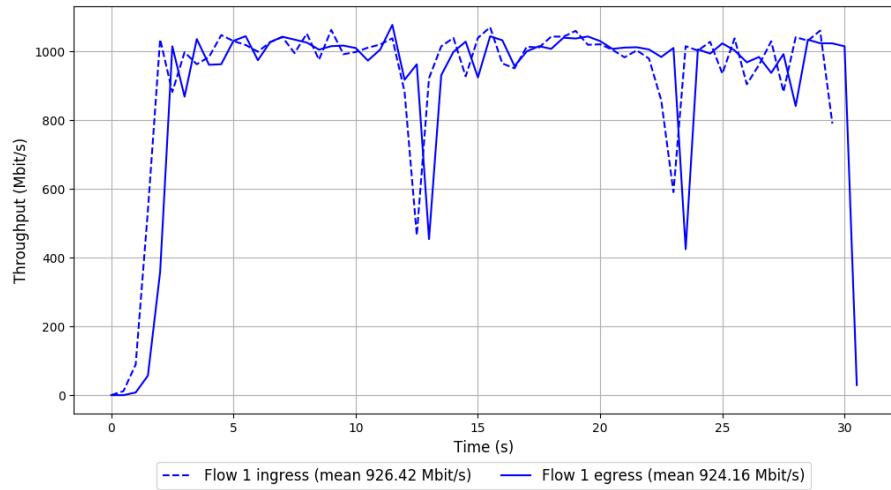


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-24 13:01:13
End at: 2019-01-24 13:01:43
Local clock offset: 0.903 ms
Remote clock offset: 4.093 ms

# Below is generated by plot.py at 2019-01-24 16:36:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 924.16 Mbit/s
95th percentile per-packet one-way delay: 148.092 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 924.16 Mbit/s
95th percentile per-packet one-way delay: 148.092 ms
Loss rate: 0.24%
```

Run 1: Report of FillP-Sheep — Data Link

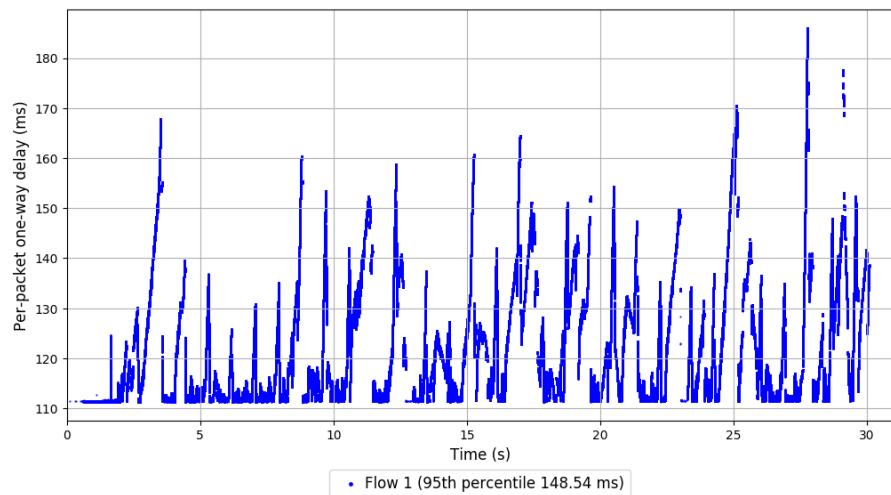
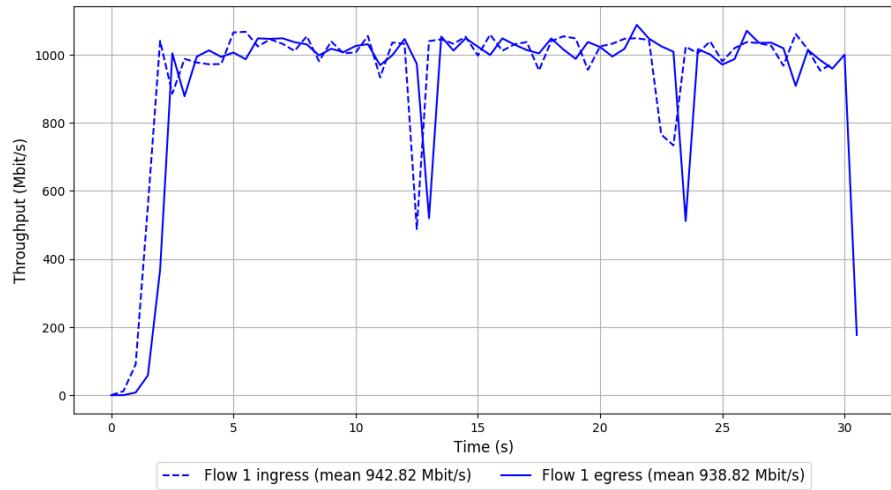


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-24 13:33:16
End at: 2019-01-24 13:33:46
Local clock offset: 18.757 ms
Remote clock offset: 24.155 ms

# Below is generated by plot.py at 2019-01-24 16:36:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 938.82 Mbit/s
95th percentile per-packet one-way delay: 148.545 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 938.82 Mbit/s
95th percentile per-packet one-way delay: 148.545 ms
Loss rate: 0.42%
```

Run 2: Report of FillP-Sheep — Data Link

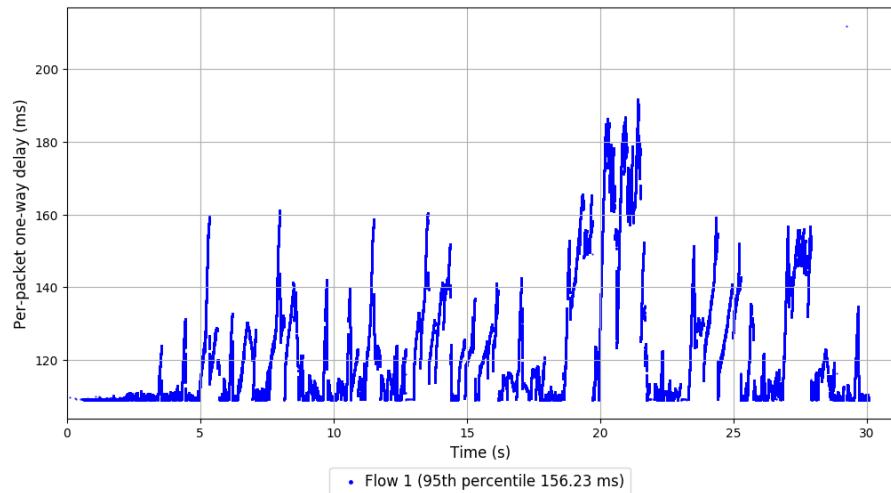
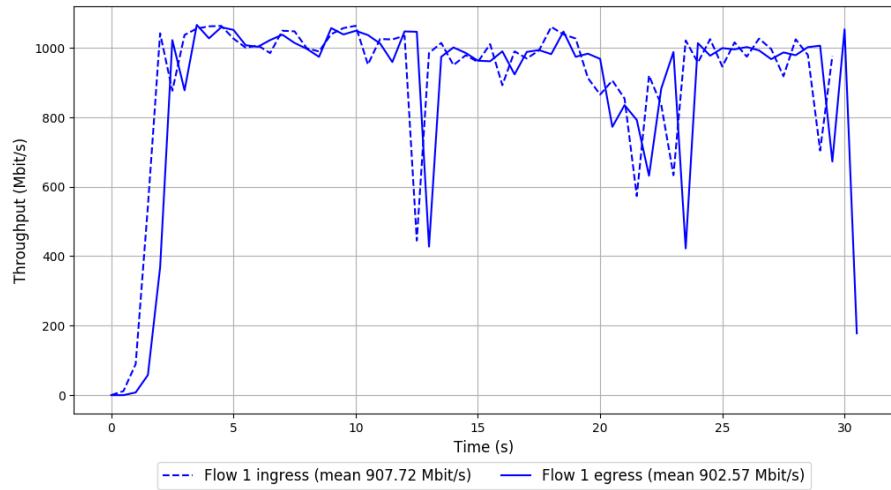


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-24 14:05:52
End at: 2019-01-24 14:06:22
Local clock offset: 29.311 ms
Remote clock offset: 34.58 ms

# Below is generated by plot.py at 2019-01-24 16:37:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 902.57 Mbit/s
95th percentile per-packet one-way delay: 156.231 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 902.57 Mbit/s
95th percentile per-packet one-way delay: 156.231 ms
Loss rate: 0.57%
```

Run 3: Report of FillP-Sheep — Data Link

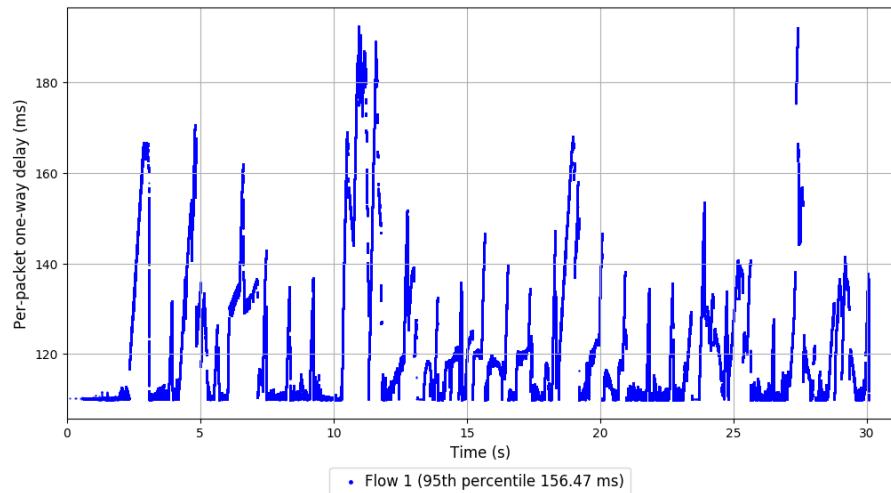
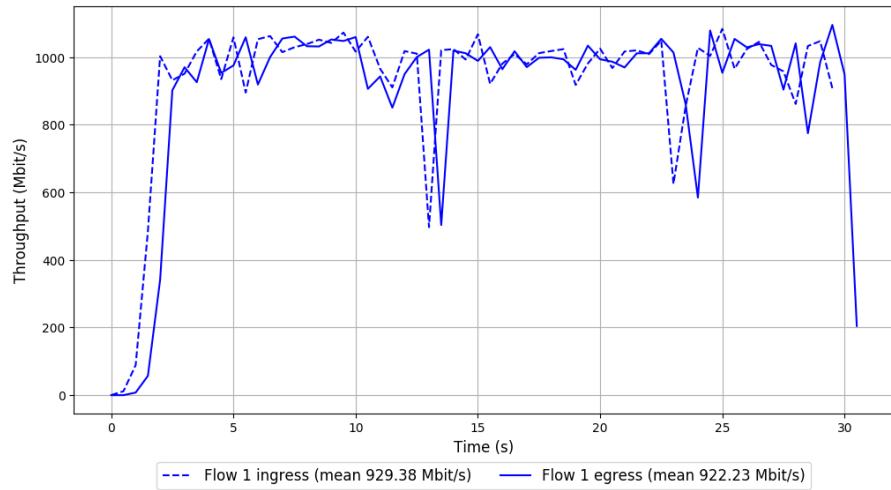


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-24 14:38:19
End at: 2019-01-24 14:38:49
Local clock offset: 6.818 ms
Remote clock offset: 16.902 ms

# Below is generated by plot.py at 2019-01-24 16:46:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 922.23 Mbit/s
95th percentile per-packet one-way delay: 156.465 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 922.23 Mbit/s
95th percentile per-packet one-way delay: 156.465 ms
Loss rate: 0.77%
```

Run 4: Report of FillP-Sheep — Data Link

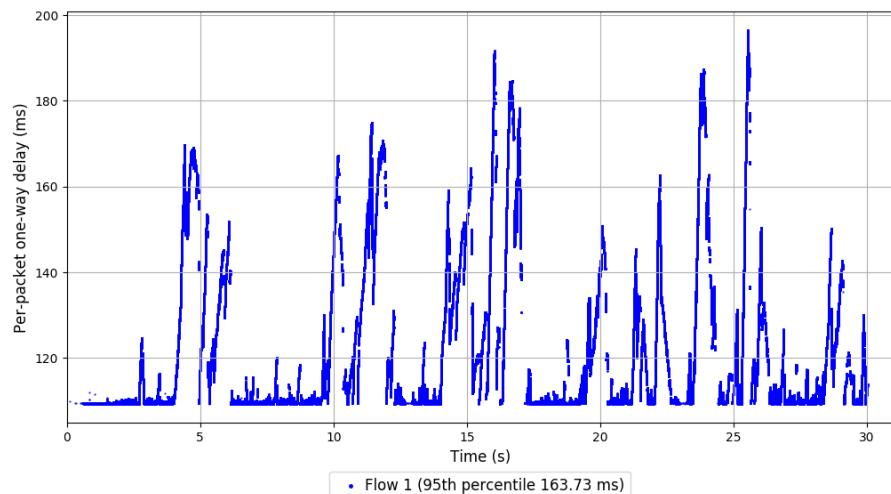
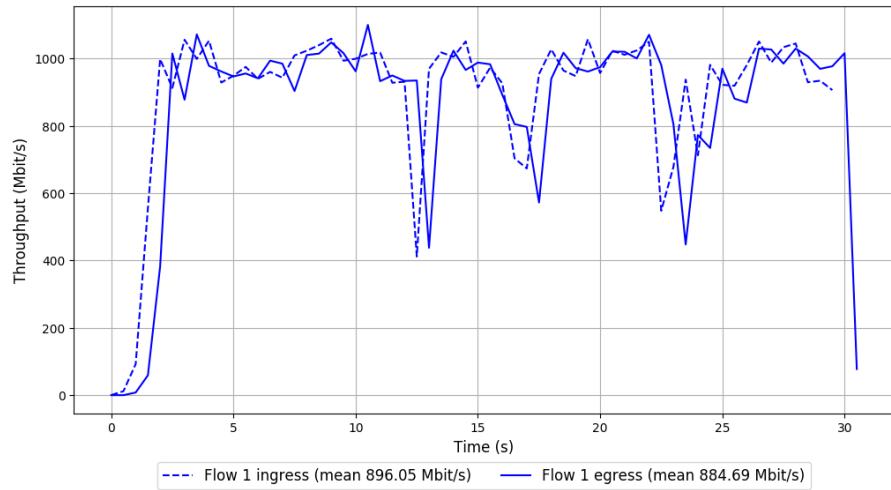


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-24 15:10:51
End at: 2019-01-24 15:11:21
Local clock offset: 3.253 ms
Remote clock offset: 3.989 ms

# Below is generated by plot.py at 2019-01-24 16:54:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 884.69 Mbit/s
95th percentile per-packet one-way delay: 163.731 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 884.69 Mbit/s
95th percentile per-packet one-way delay: 163.731 ms
Loss rate: 1.27%
```

Run 5: Report of FillP-Sheep — Data Link

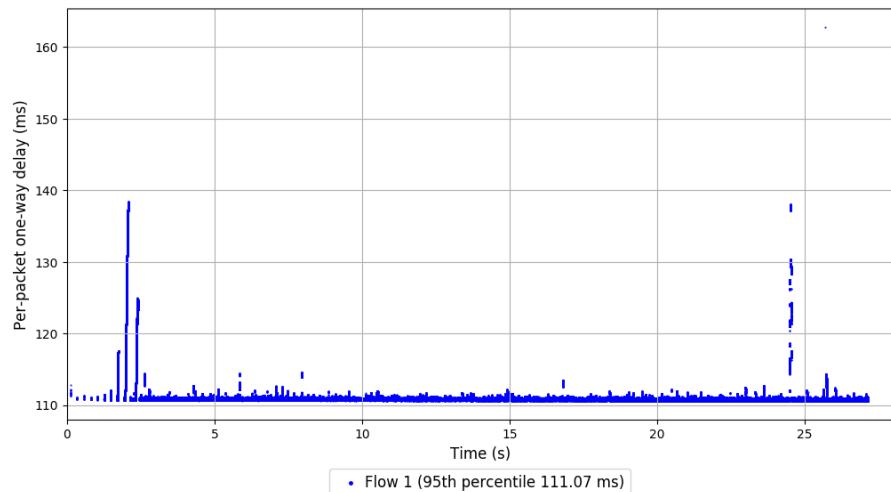
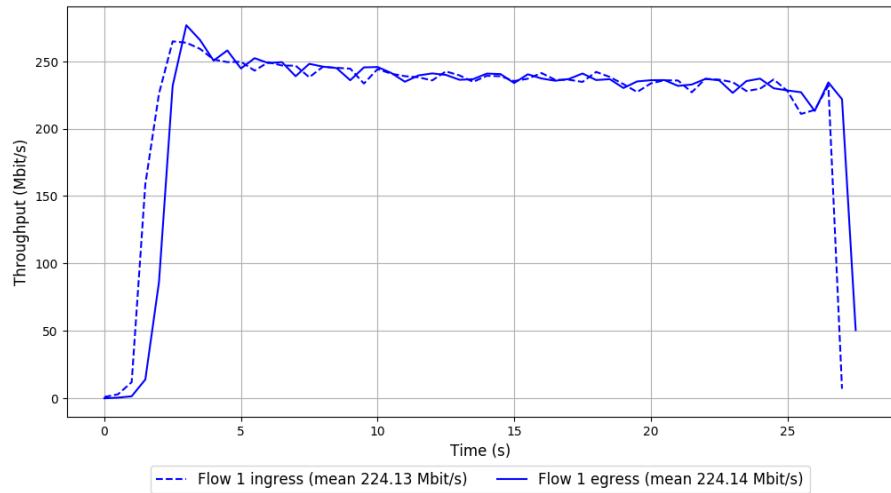


Run 1: Statistics of Indigo

```
Start at: 2019-01-24 13:14:07
End at: 2019-01-24 13:14:37
Local clock offset: 9.029 ms
Remote clock offset: 12.302 ms

# Below is generated by plot.py at 2019-01-24 16:54:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.14 Mbit/s
95th percentile per-packet one-way delay: 111.073 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.14 Mbit/s
95th percentile per-packet one-way delay: 111.073 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

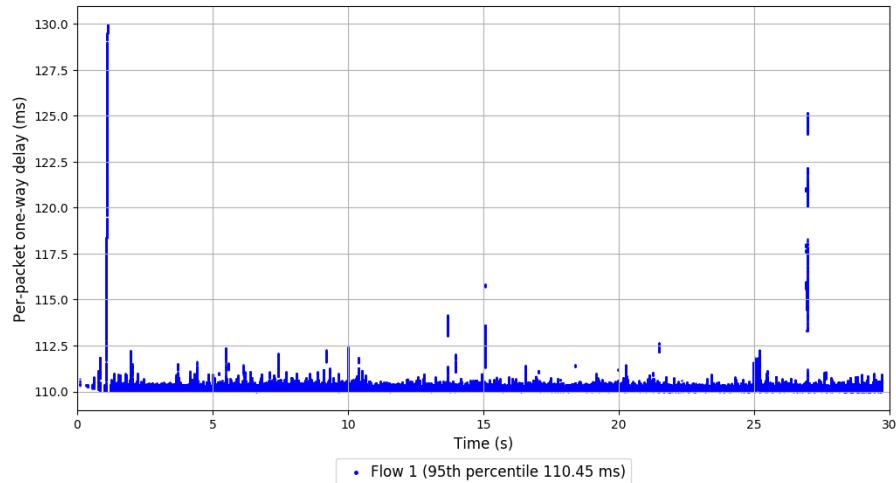
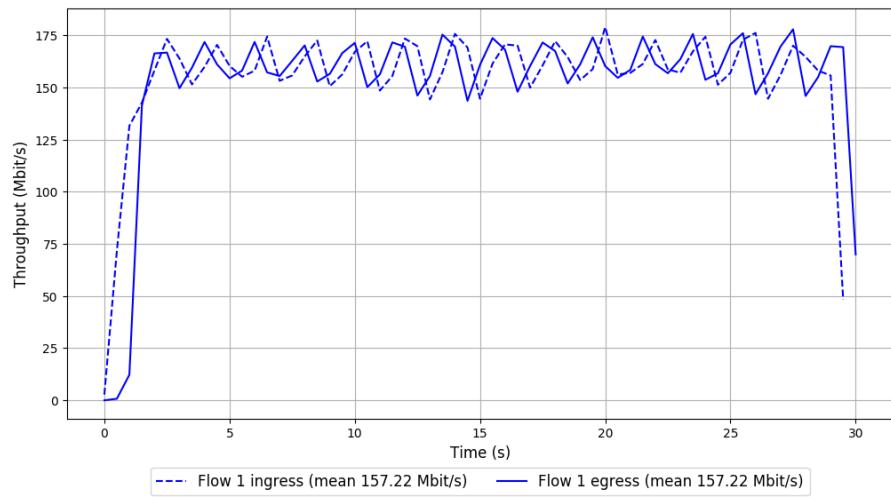


Run 2: Statistics of Indigo

```
Start at: 2019-01-24 13:46:35
End at: 2019-01-24 13:47:05
Local clock offset: 15.388 ms
Remote clock offset: 19.027 ms

# Below is generated by plot.py at 2019-01-24 16:54:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.22 Mbit/s
95th percentile per-packet one-way delay: 110.451 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 157.22 Mbit/s
95th percentile per-packet one-way delay: 110.451 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

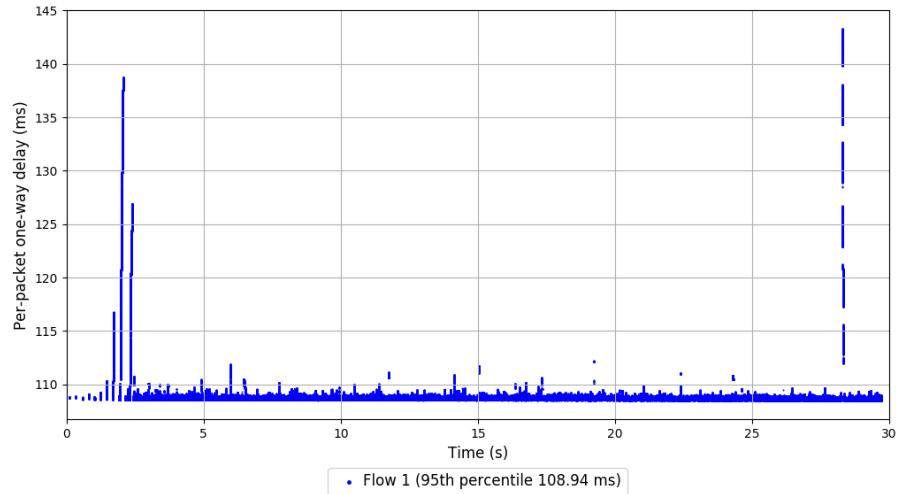
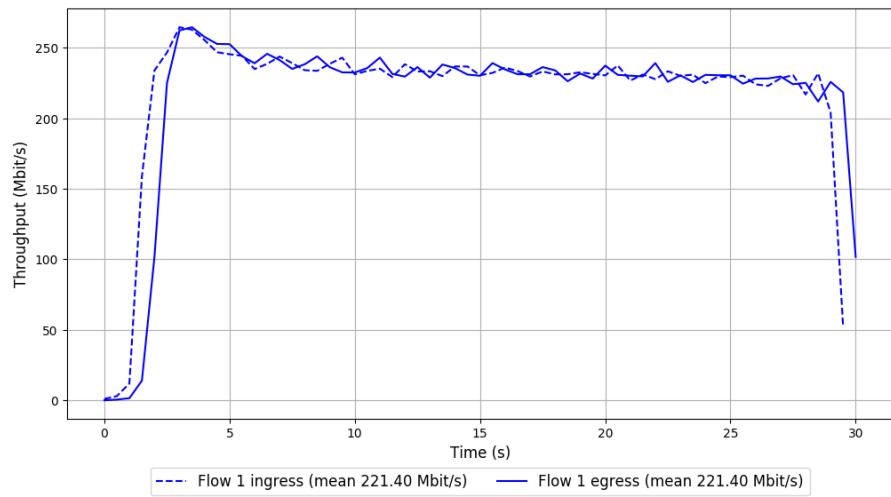


Run 3: Statistics of Indigo

```
Start at: 2019-01-24 14:18:55
End at: 2019-01-24 14:19:25
Local clock offset: 10.926 ms
Remote clock offset: 15.014 ms

# Below is generated by plot.py at 2019-01-24 16:54:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.40 Mbit/s
95th percentile per-packet one-way delay: 108.937 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.40 Mbit/s
95th percentile per-packet one-way delay: 108.937 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

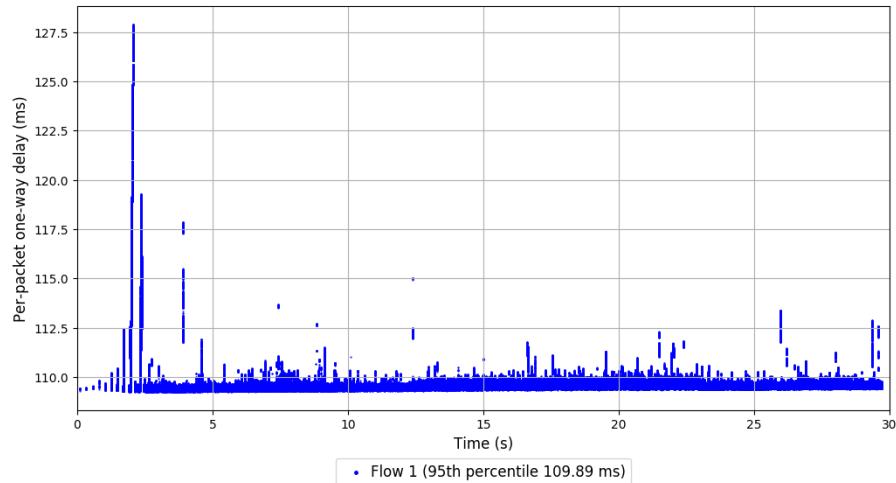
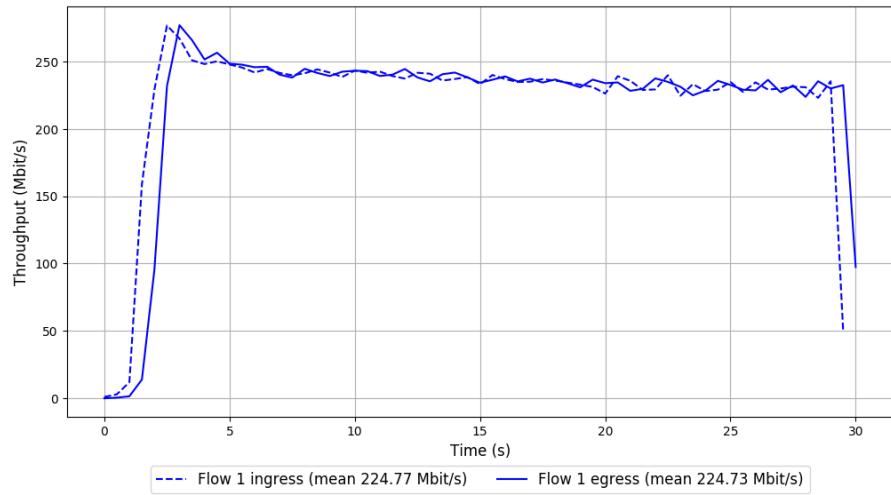


Run 4: Statistics of Indigo

```
Start at: 2019-01-24 14:51:33
End at: 2019-01-24 14:52:03
Local clock offset: 3.562 ms
Remote clock offset: 6.857 ms

# Below is generated by plot.py at 2019-01-24 16:54:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.73 Mbit/s
95th percentile per-packet one-way delay: 109.892 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 224.73 Mbit/s
95th percentile per-packet one-way delay: 109.892 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo — Data Link

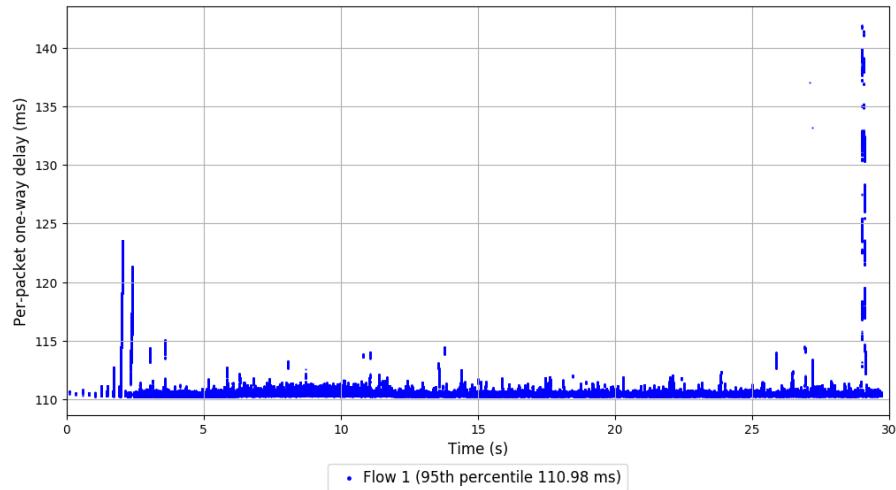
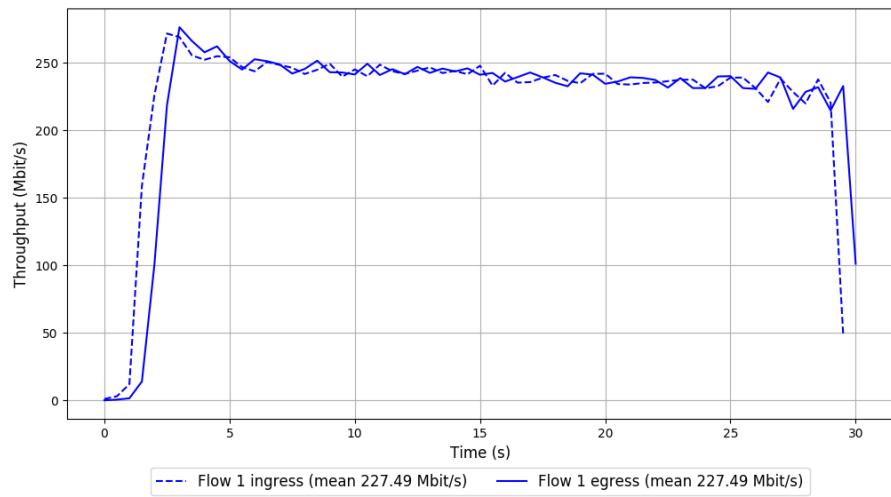


Run 5: Statistics of Indigo

```
Start at: 2019-01-24 15:24:03
End at: 2019-01-24 15:24:33
Local clock offset: 0.31 ms
Remote clock offset: 1.936 ms

# Below is generated by plot.py at 2019-01-24 16:54:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.49 Mbit/s
95th percentile per-packet one-way delay: 110.985 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.49 Mbit/s
95th percentile per-packet one-way delay: 110.985 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

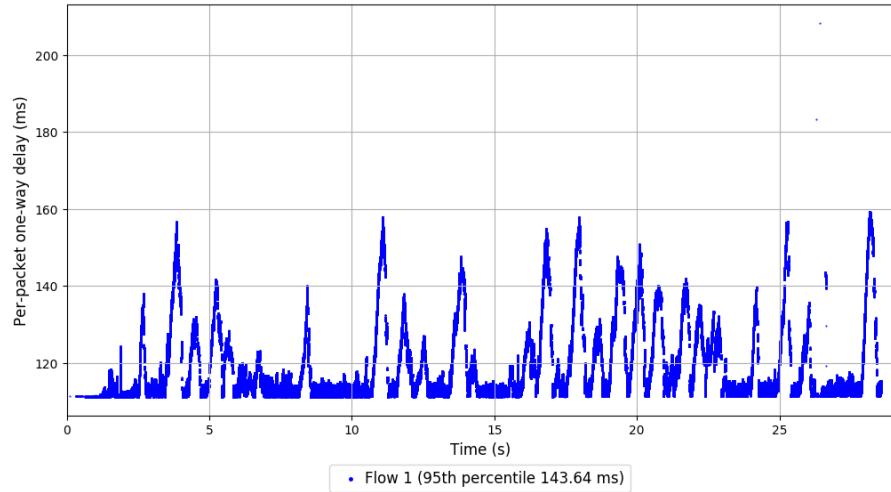
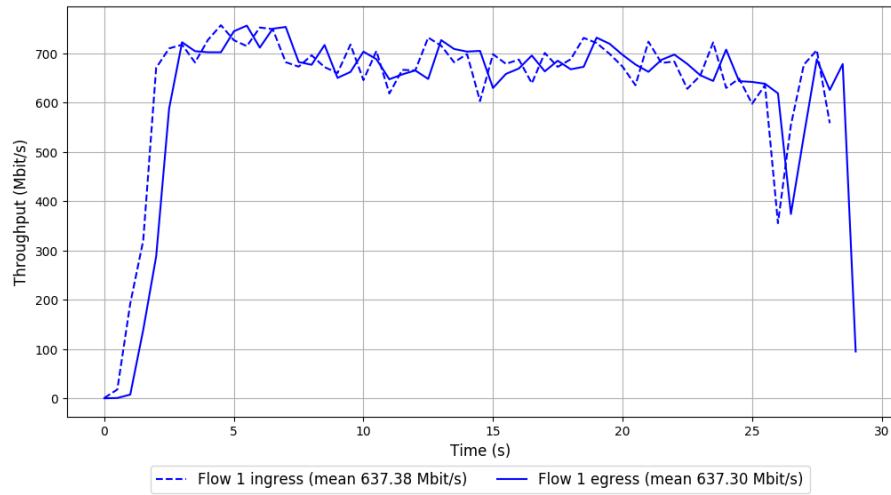


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-24 13:07:49
End at: 2019-01-24 13:08:19
Local clock offset: 7.398 ms
Remote clock offset: 10.829 ms

# Below is generated by plot.py at 2019-01-24 16:54:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 637.30 Mbit/s
95th percentile per-packet one-way delay: 143.636 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 637.30 Mbit/s
95th percentile per-packet one-way delay: 143.636 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesC3 — Data Link

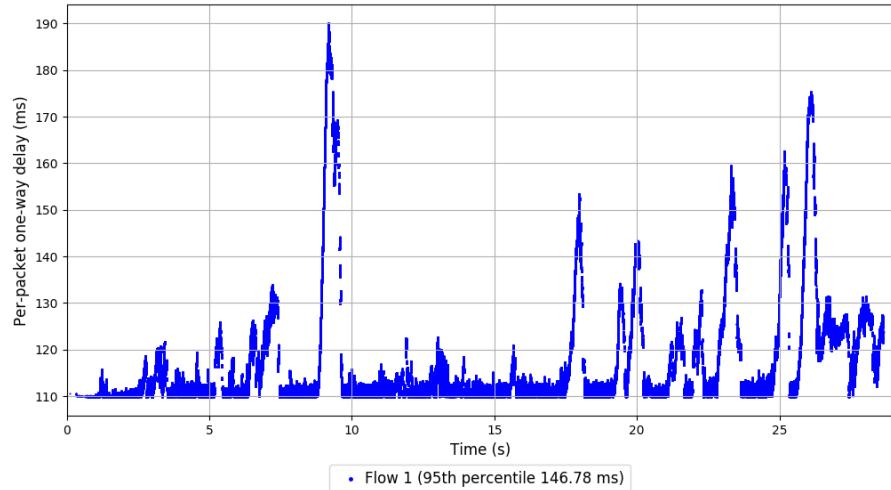
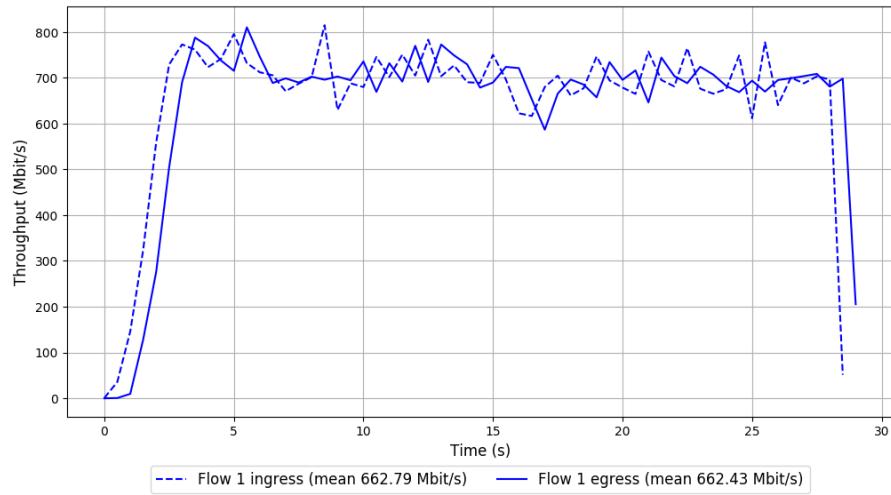


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-24 13:40:16
End at: 2019-01-24 13:40:46
Local clock offset: 14.811 ms
Remote clock offset: 17.963 ms

# Below is generated by plot.py at 2019-01-24 16:54:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 662.43 Mbit/s
95th percentile per-packet one-way delay: 146.782 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 662.43 Mbit/s
95th percentile per-packet one-way delay: 146.782 ms
Loss rate: 0.05%
```

Run 2: Report of Indigo-MusesC3 — Data Link

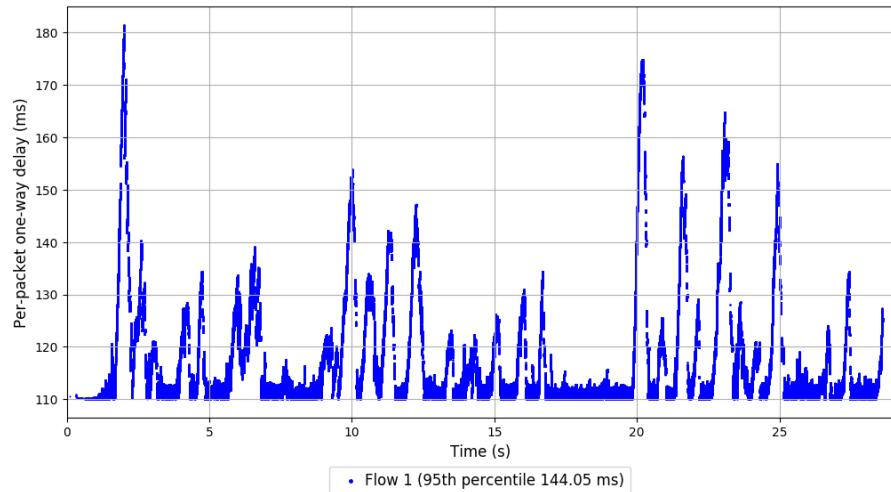
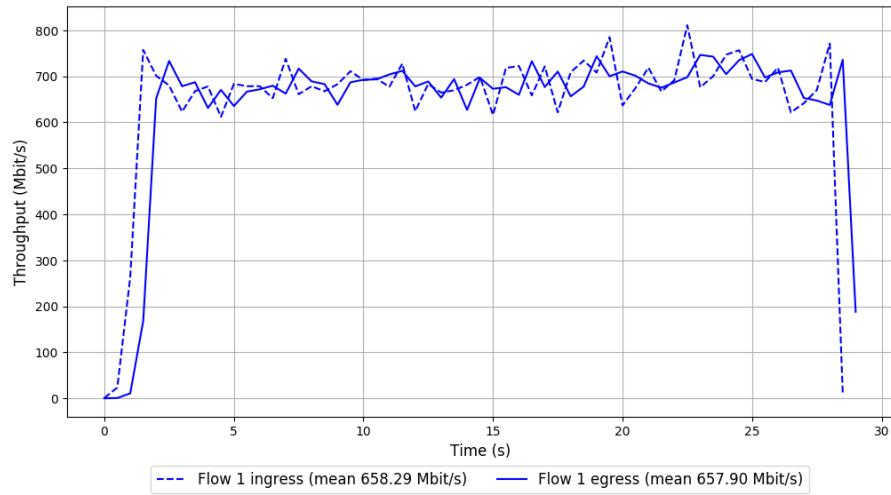


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-24 14:12:43
End at: 2019-01-24 14:13:13
Local clock offset: 17.406 ms
Remote clock offset: 22.562 ms

# Below is generated by plot.py at 2019-01-24 16:54:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 657.90 Mbit/s
95th percentile per-packet one-way delay: 144.049 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 657.90 Mbit/s
95th percentile per-packet one-way delay: 144.049 ms
Loss rate: 0.06%
```

Run 3: Report of Indigo-MusesC3 — Data Link

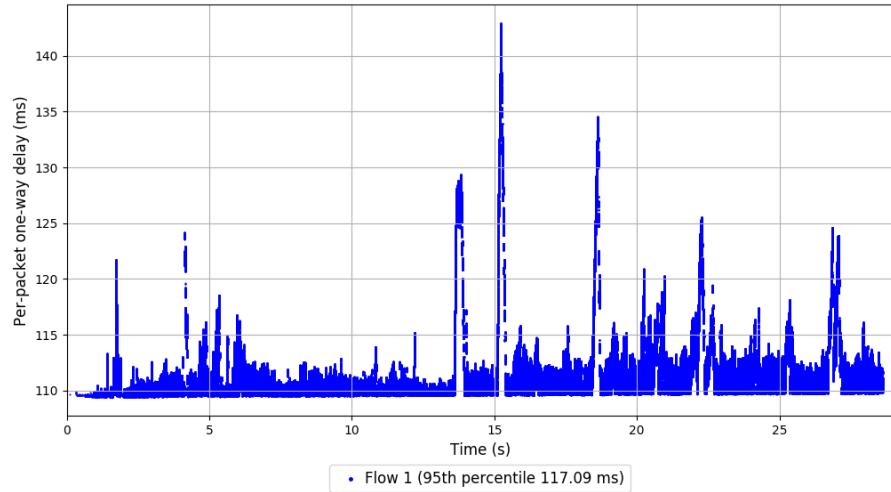
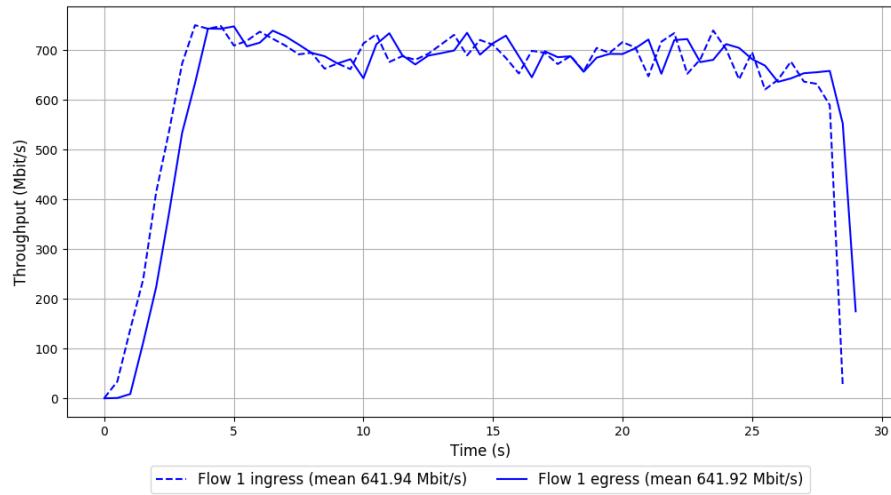


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-24 14:45:17
End at: 2019-01-24 14:45:47
Local clock offset: 5.756 ms
Remote clock offset: 12.531 ms

# Below is generated by plot.py at 2019-01-24 16:54:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 641.92 Mbit/s
95th percentile per-packet one-way delay: 117.092 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 641.92 Mbit/s
95th percentile per-packet one-way delay: 117.092 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC3 — Data Link

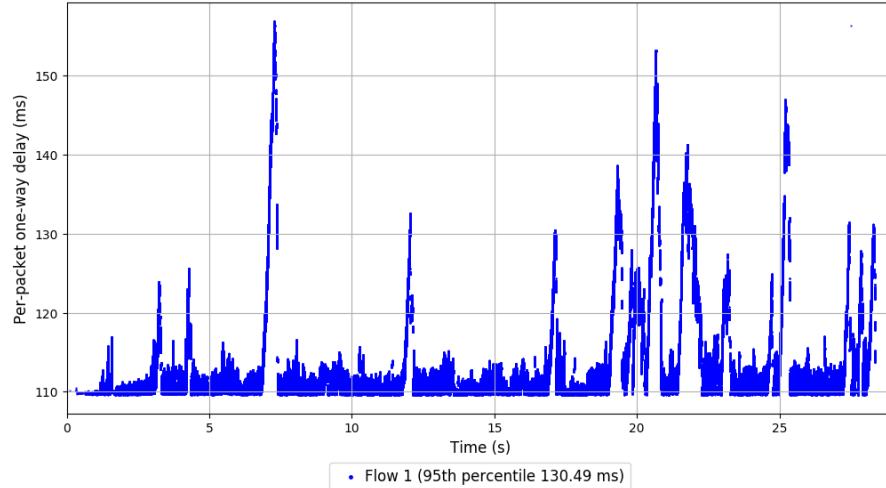
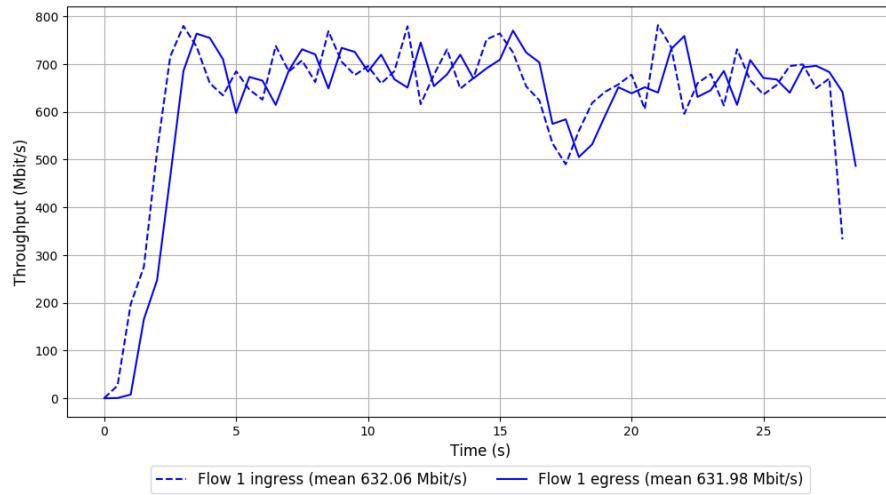


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-24 15:17:42
End at: 2019-01-24 15:18:12
Local clock offset: 2.607 ms
Remote clock offset: 3.501 ms

# Below is generated by plot.py at 2019-01-24 16:54:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 631.98 Mbit/s
95th percentile per-packet one-way delay: 130.492 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 631.98 Mbit/s
95th percentile per-packet one-way delay: 130.492 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

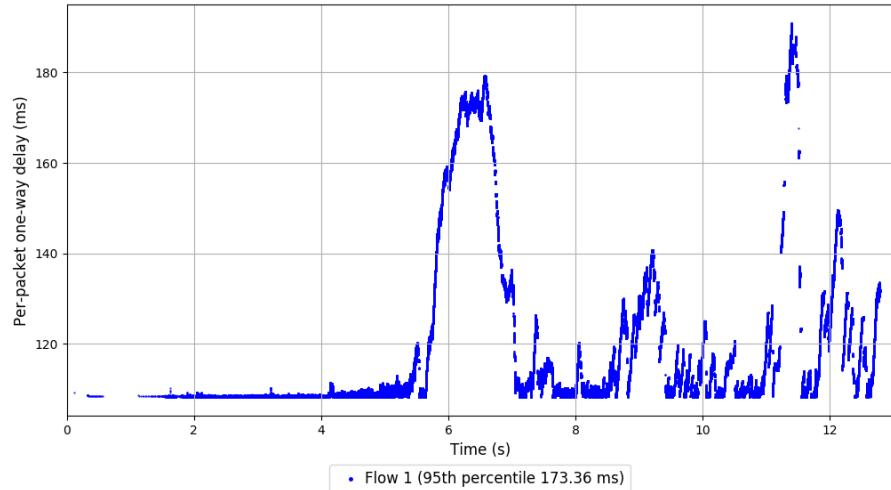
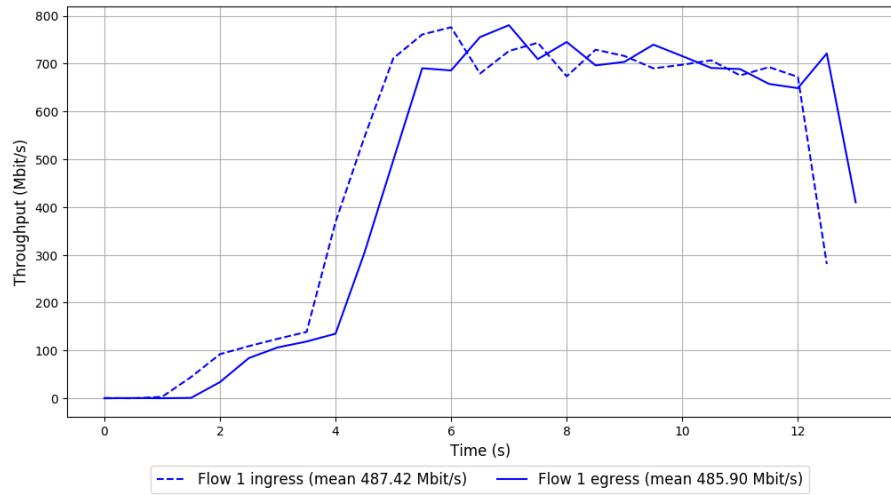
Start at: 2019-01-24 13:04:39

End at: 2019-01-24 13:05:09

Local clock offset: 4.492 ms

Remote clock offset: 5.421 ms

Run 1: Report of Indigo-MusesC5 — Data Link

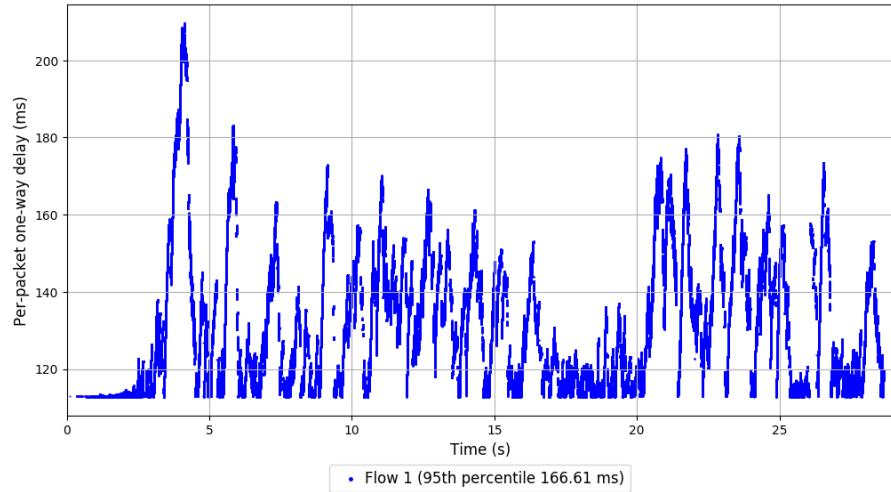
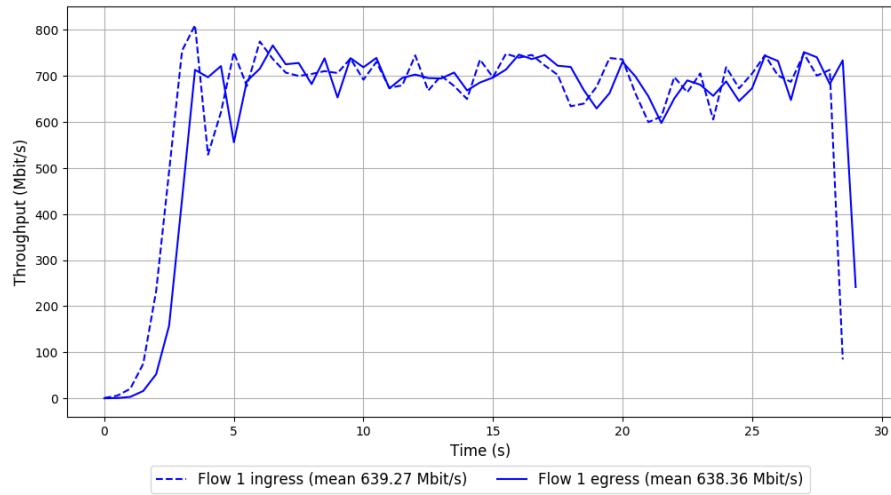


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-24 13:36:43
End at: 2019-01-24 13:37:13
Local clock offset: 16.53 ms
Remote clock offset: 19.921 ms

# Below is generated by plot.py at 2019-01-24 16:58:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 638.36 Mbit/s
95th percentile per-packet one-way delay: 166.609 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 638.36 Mbit/s
95th percentile per-packet one-way delay: 166.609 ms
Loss rate: 0.15%
```

Run 2: Report of Indigo-MusesC5 — Data Link

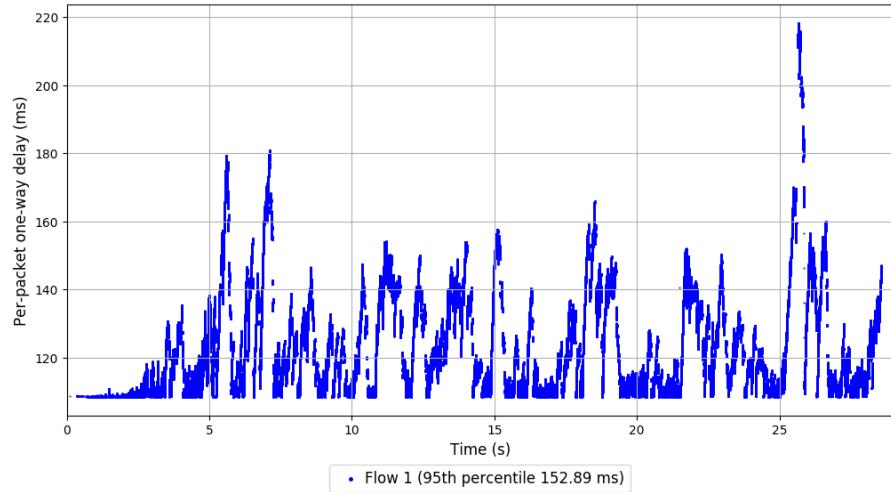
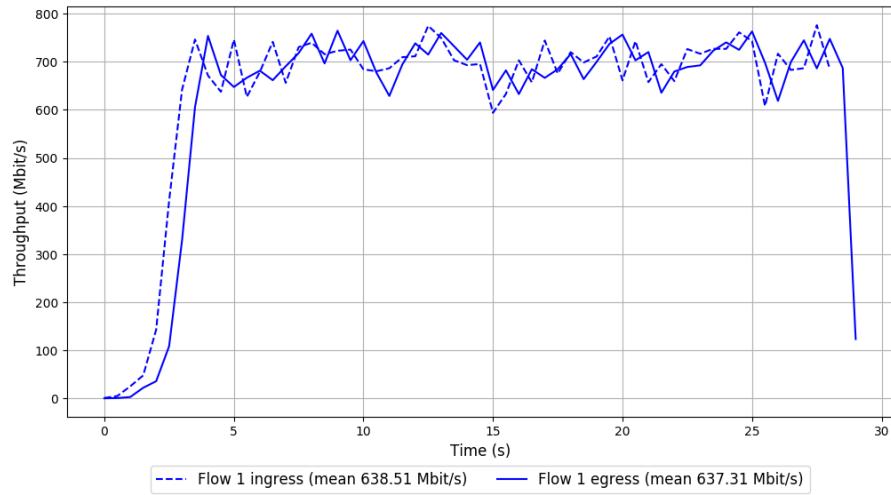


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-24 14:09:10
End at: 2019-01-24 14:09:40
Local clock offset: 26.328 ms
Remote clock offset: 30.302 ms

# Below is generated by plot.py at 2019-01-24 16:59:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 637.31 Mbit/s
95th percentile per-packet one-way delay: 152.890 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 637.31 Mbit/s
95th percentile per-packet one-way delay: 152.890 ms
Loss rate: 0.19%
```

Run 3: Report of Indigo-MusesC5 — Data Link

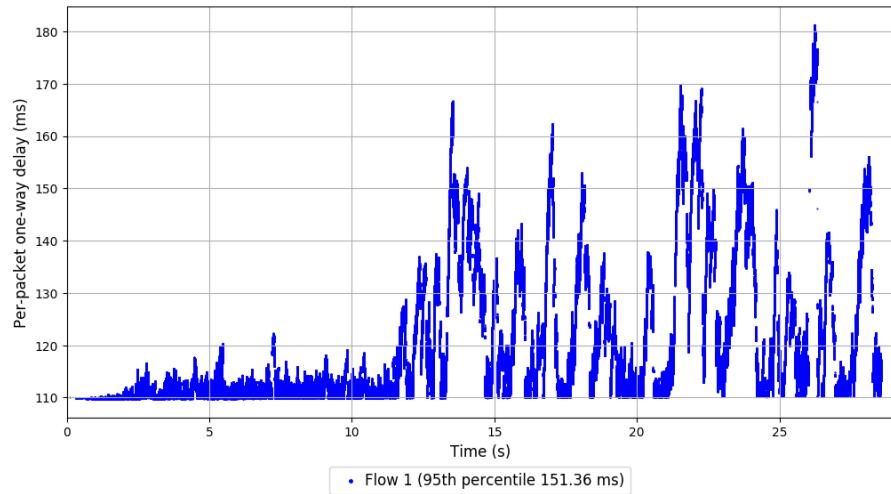
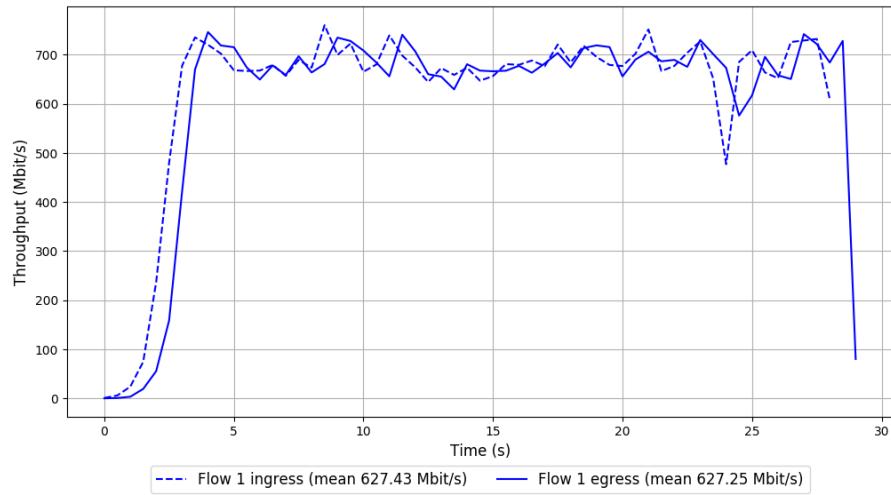


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-24 14:41:45
End at: 2019-01-24 14:42:15
Local clock offset: 7.744 ms
Remote clock offset: 18.188 ms

# Below is generated by plot.py at 2019-01-24 16:59:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 627.25 Mbit/s
95th percentile per-packet one-way delay: 151.363 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 627.25 Mbit/s
95th percentile per-packet one-way delay: 151.363 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesC5 — Data Link

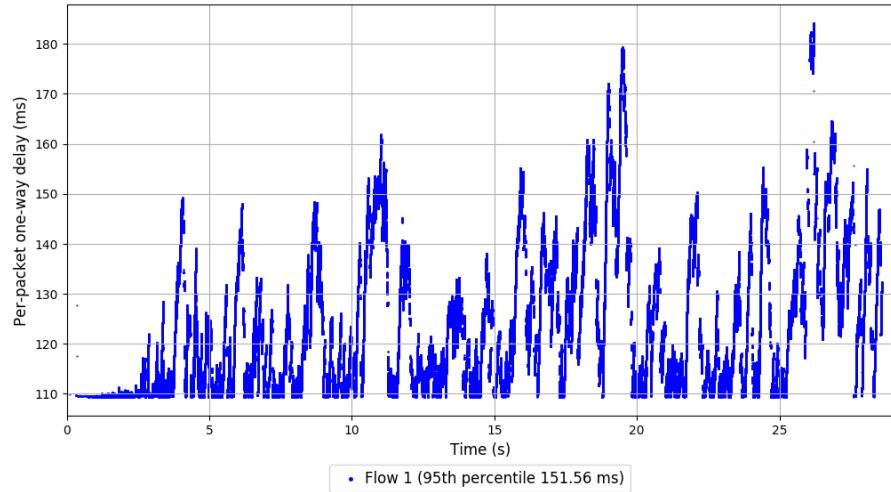
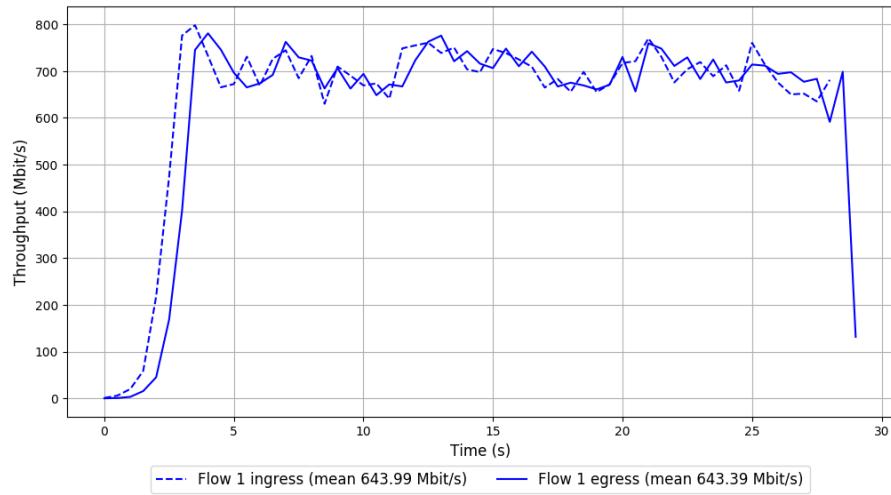


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-24 15:14:08
End at: 2019-01-24 15:14:38
Local clock offset: 3.367 ms
Remote clock offset: 4.151 ms

# Below is generated by plot.py at 2019-01-24 17:03:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 643.39 Mbit/s
95th percentile per-packet one-way delay: 151.556 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 643.39 Mbit/s
95th percentile per-packet one-way delay: 151.556 ms
Loss rate: 0.09%
```

Run 5: Report of Indigo-MusesC5 — Data Link

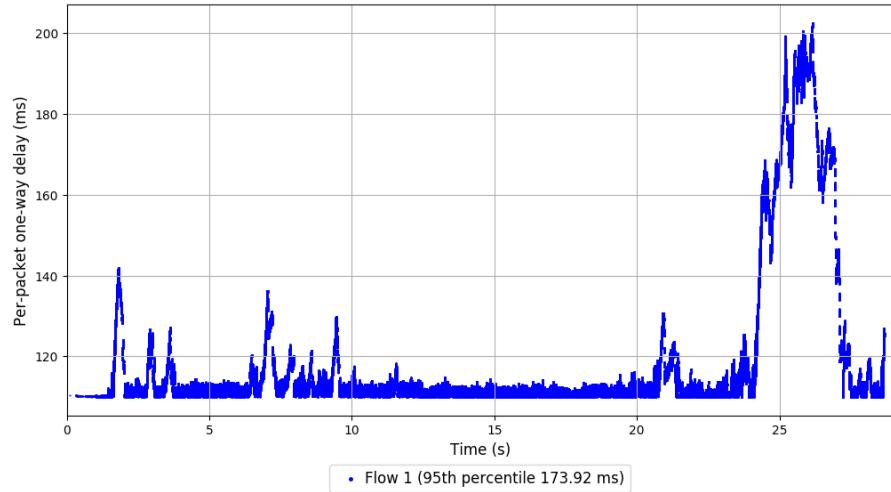
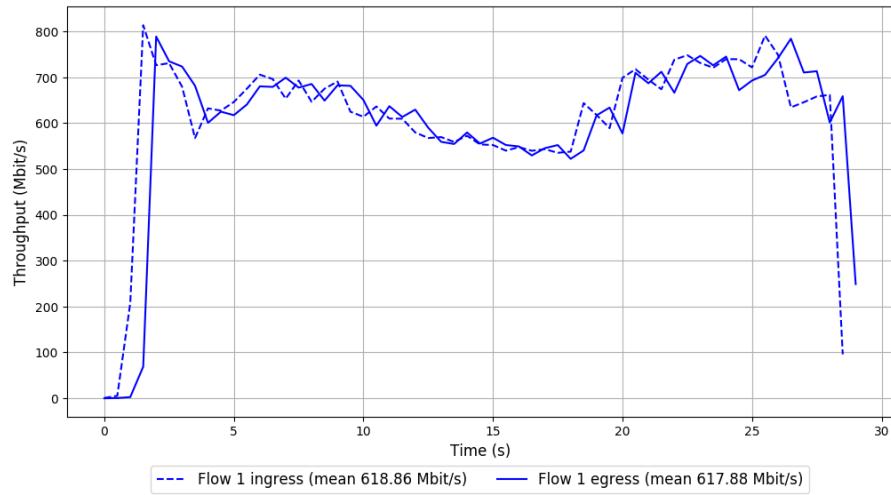


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-24 13:26:43
End at: 2019-01-24 13:27:13
Local clock offset: 13.394 ms
Remote clock offset: 16.421 ms

# Below is generated by plot.py at 2019-01-24 17:04:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 617.88 Mbit/s
95th percentile per-packet one-way delay: 173.921 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 617.88 Mbit/s
95th percentile per-packet one-way delay: 173.921 ms
Loss rate: 0.16%
```

Run 1: Report of Indigo-MusesD — Data Link

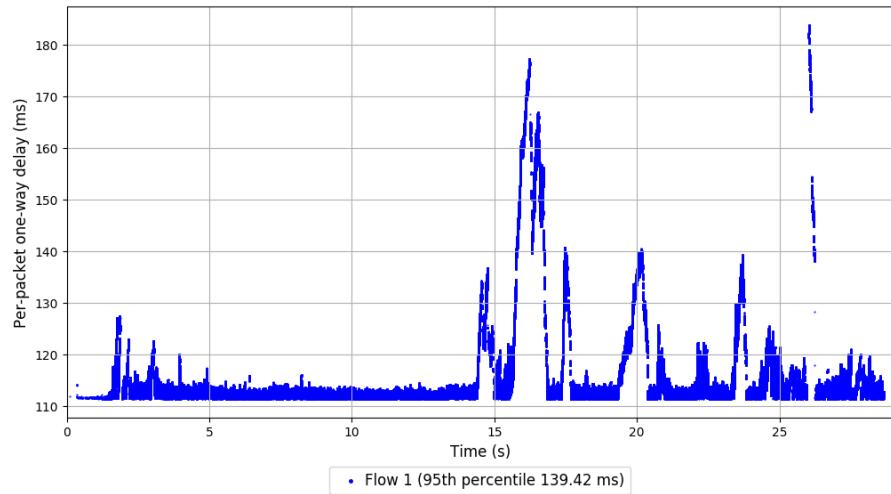
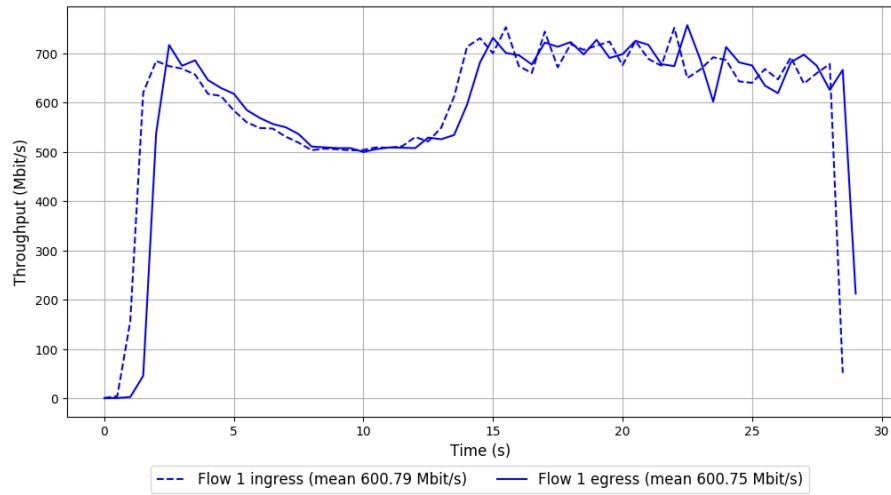


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-24 13:59:13
End at: 2019-01-24 13:59:43
Local clock offset: 24.26 ms
Remote clock offset: 28.582 ms

# Below is generated by plot.py at 2019-01-24 17:04:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 600.75 Mbit/s
95th percentile per-packet one-way delay: 139.418 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 600.75 Mbit/s
95th percentile per-packet one-way delay: 139.418 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesD — Data Link

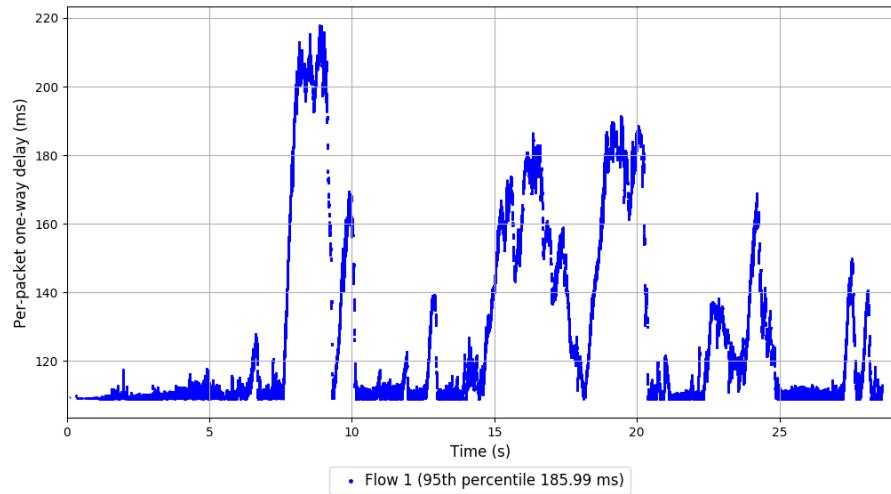
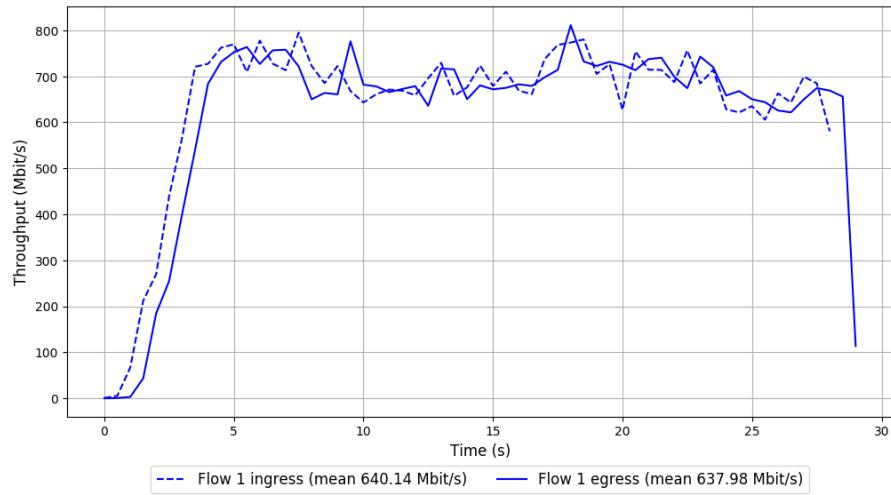


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-24 14:31:40
End at: 2019-01-24 14:32:10
Local clock offset: 7.192 ms
Remote clock offset: 14.626 ms

# Below is generated by plot.py at 2019-01-24 17:05:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 637.98 Mbit/s
95th percentile per-packet one-way delay: 185.987 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 637.98 Mbit/s
95th percentile per-packet one-way delay: 185.987 ms
Loss rate: 0.34%
```

Run 3: Report of Indigo-MusesD — Data Link

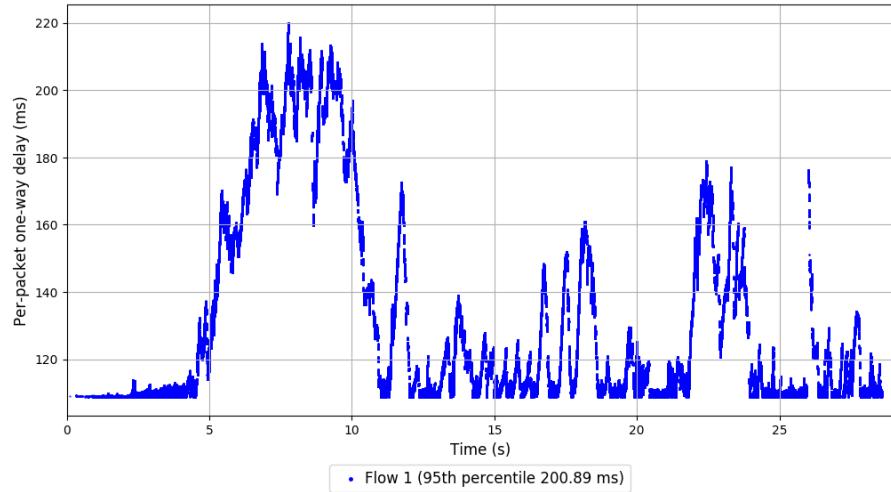
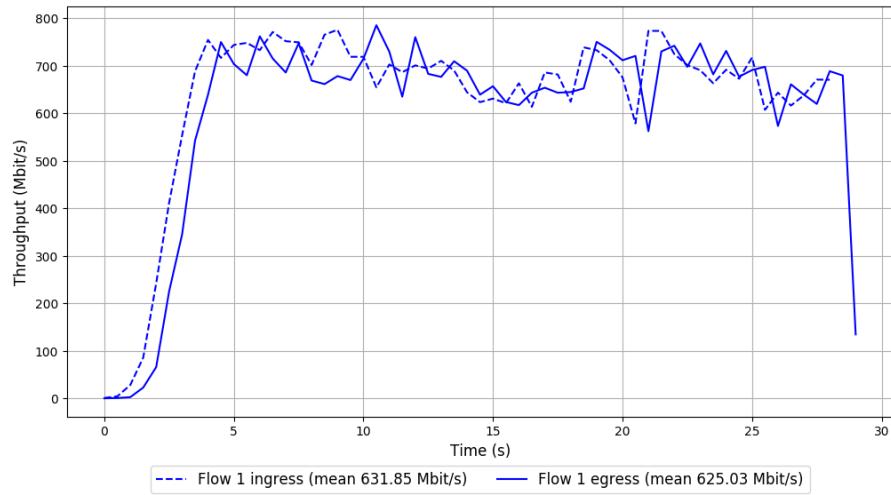


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-24 15:04:12
End at: 2019-01-24 15:04:42
Local clock offset: 3.357 ms
Remote clock offset: 3.918 ms

# Below is generated by plot.py at 2019-01-24 17:06:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 625.03 Mbit/s
95th percentile per-packet one-way delay: 200.888 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 625.03 Mbit/s
95th percentile per-packet one-way delay: 200.888 ms
Loss rate: 1.08%
```

Run 4: Report of Indigo-MusesD — Data Link

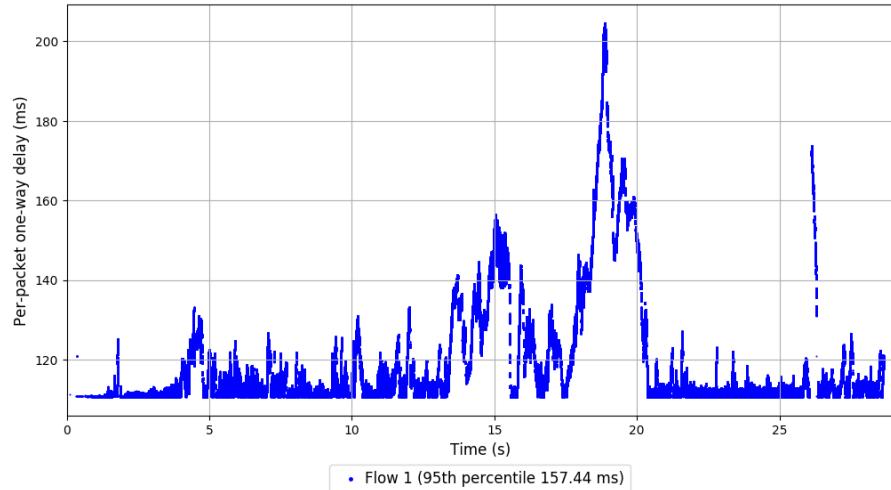
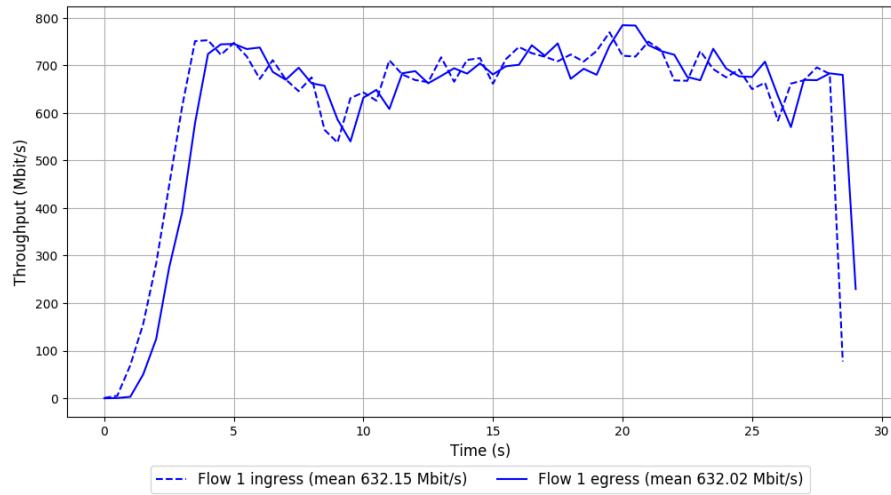


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-24 15:36:43
End at: 2019-01-24 15:37:13
Local clock offset: -0.125 ms
Remote clock offset: 1.304 ms

# Below is generated by plot.py at 2019-01-24 17:10:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 632.02 Mbit/s
95th percentile per-packet one-way delay: 157.443 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 632.02 Mbit/s
95th percentile per-packet one-way delay: 157.443 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo-MusesD — Data Link

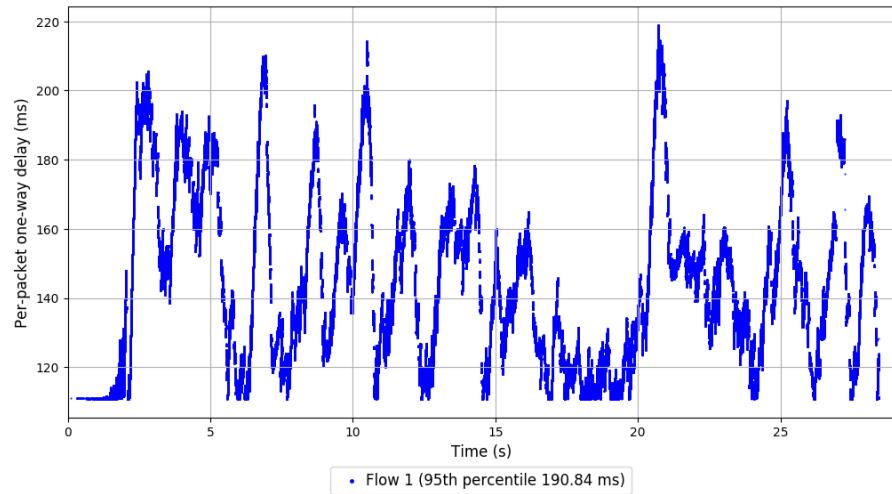
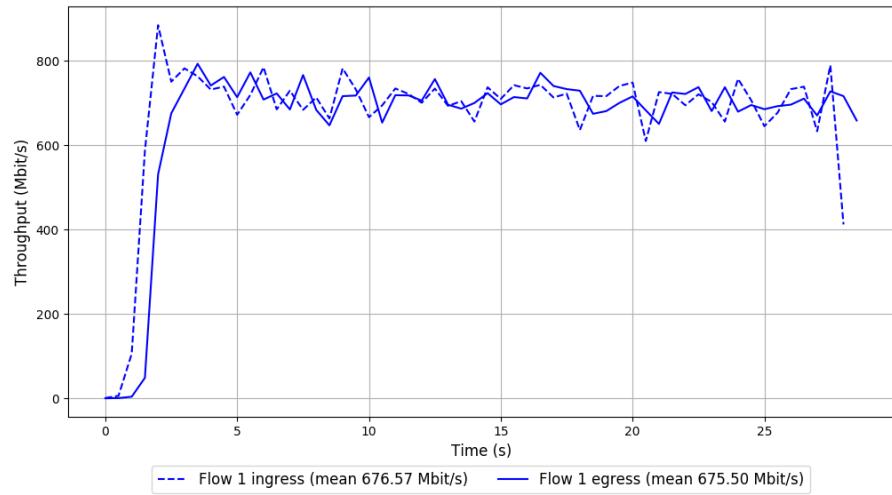


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-24 13:23:21
End at: 2019-01-24 13:23:51
Local clock offset: 9.545 ms
Remote clock offset: 12.987 ms

# Below is generated by plot.py at 2019-01-24 17:11:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 675.50 Mbit/s
95th percentile per-packet one-way delay: 190.839 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 675.50 Mbit/s
95th percentile per-packet one-way delay: 190.839 ms
Loss rate: 0.33%
```

Run 1: Report of Indigo-MusesT — Data Link

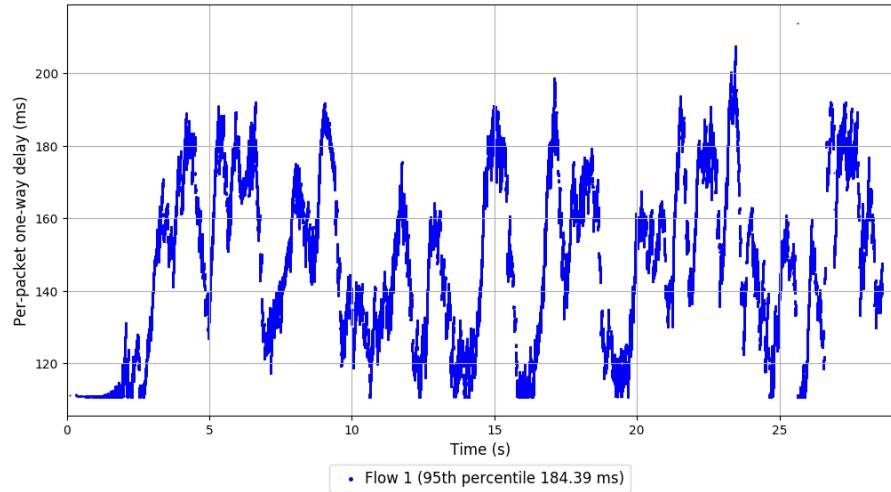
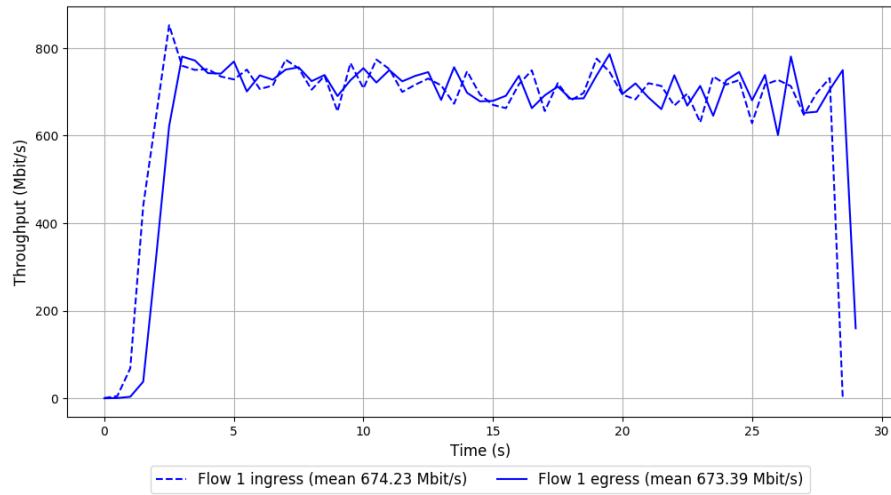


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-24 13:55:51
End at: 2019-01-24 13:56:21
Local clock offset: 20.099 ms
Remote clock offset: 25.32 ms

# Below is generated by plot.py at 2019-01-24 17:11:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 673.39 Mbit/s
95th percentile per-packet one-way delay: 184.394 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 673.39 Mbit/s
95th percentile per-packet one-way delay: 184.394 ms
Loss rate: 0.13%
```

Run 2: Report of Indigo-MusesT — Data Link

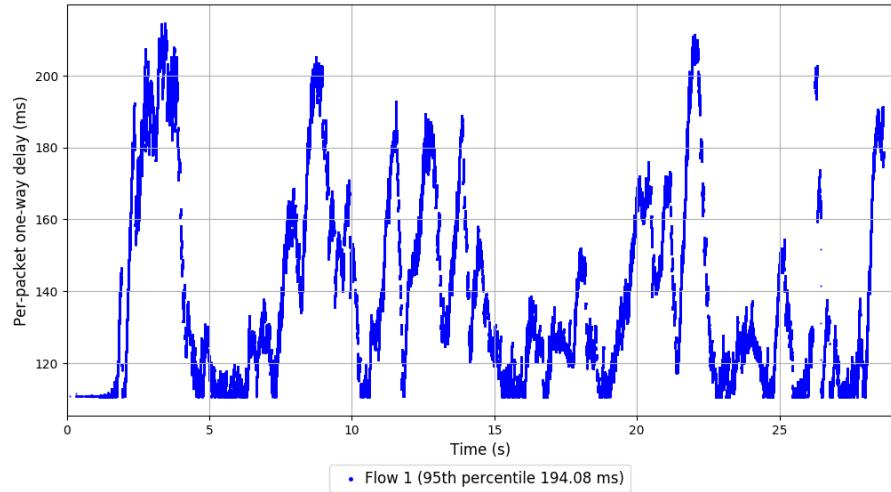
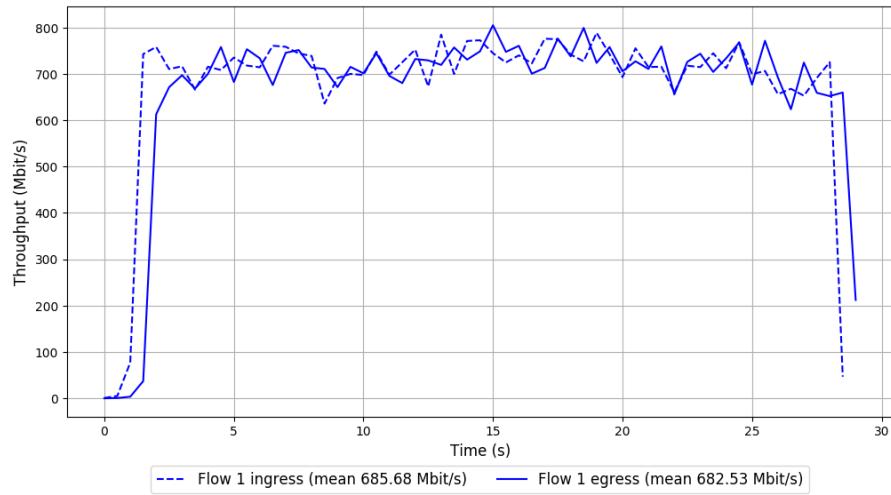


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-24 14:28:15
End at: 2019-01-24 14:28:45
Local clock offset: 5.822 ms
Remote clock offset: 13.844 ms

# Below is generated by plot.py at 2019-01-24 17:15:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 682.53 Mbit/s
95th percentile per-packet one-way delay: 194.081 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 682.53 Mbit/s
95th percentile per-packet one-way delay: 194.081 ms
Loss rate: 0.45%
```

Run 3: Report of Indigo-MusesT — Data Link

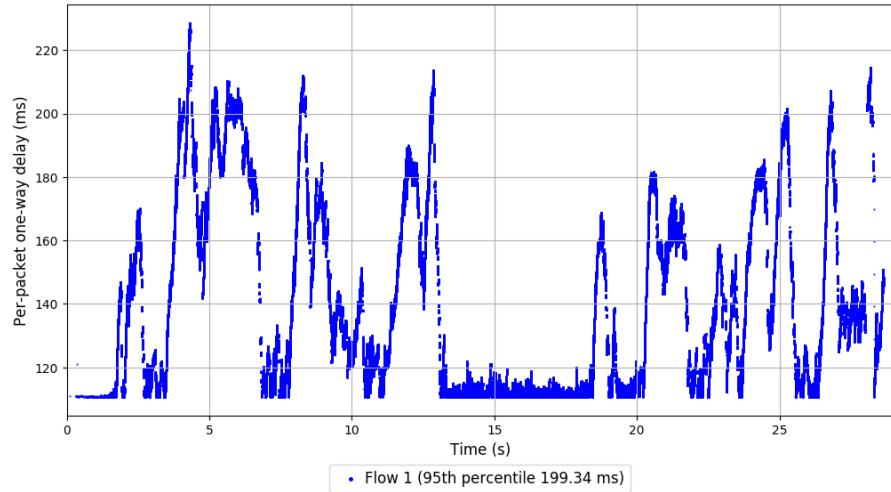
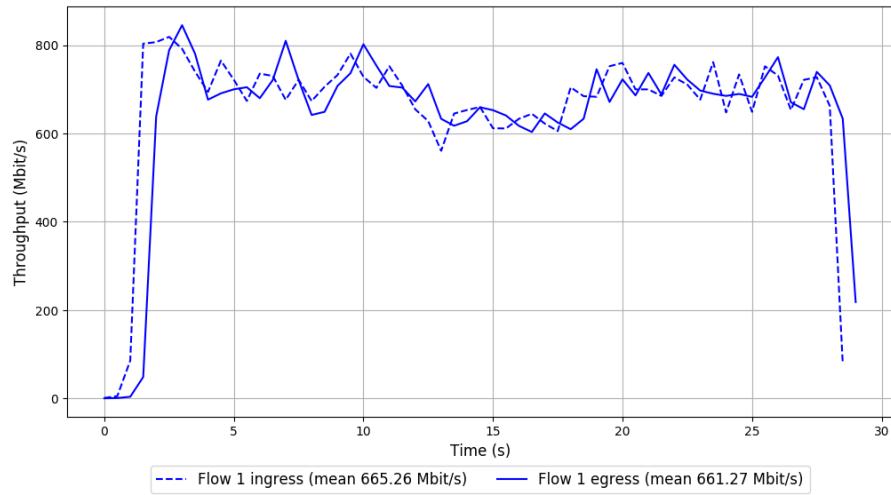


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-24 15:00:55
End at: 2019-01-24 15:01:25
Local clock offset: 1.399 ms
Remote clock offset: 4.159 ms

# Below is generated by plot.py at 2019-01-24 17:16:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 661.27 Mbit/s
95th percentile per-packet one-way delay: 199.341 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 661.27 Mbit/s
95th percentile per-packet one-way delay: 199.341 ms
Loss rate: 0.60%
```

Run 4: Report of Indigo-MusesT — Data Link

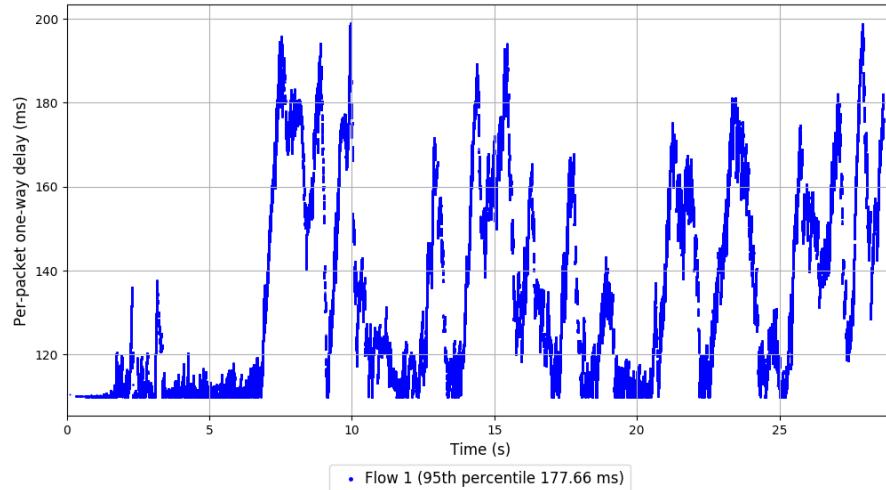
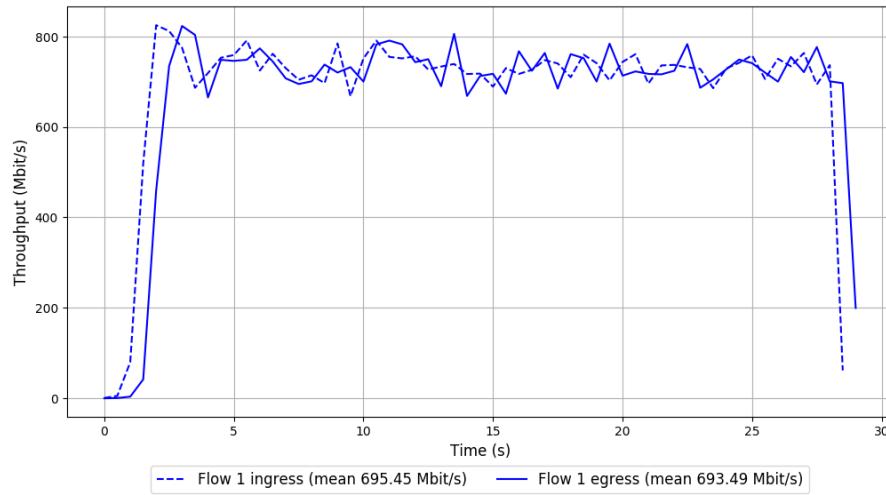


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-24 15:33:22
End at: 2019-01-24 15:33:52
Local clock offset: 0.572 ms
Remote clock offset: 1.327 ms

# Below is generated by plot.py at 2019-01-24 17:17:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 693.49 Mbit/s
95th percentile per-packet one-way delay: 177.655 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 693.49 Mbit/s
95th percentile per-packet one-way delay: 177.655 ms
Loss rate: 0.28%
```

Run 5: Report of Indigo-MusesT — Data Link

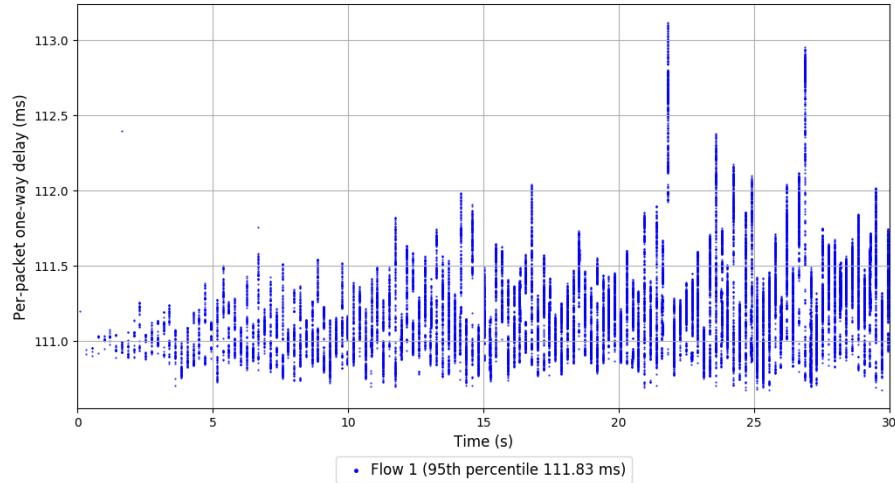
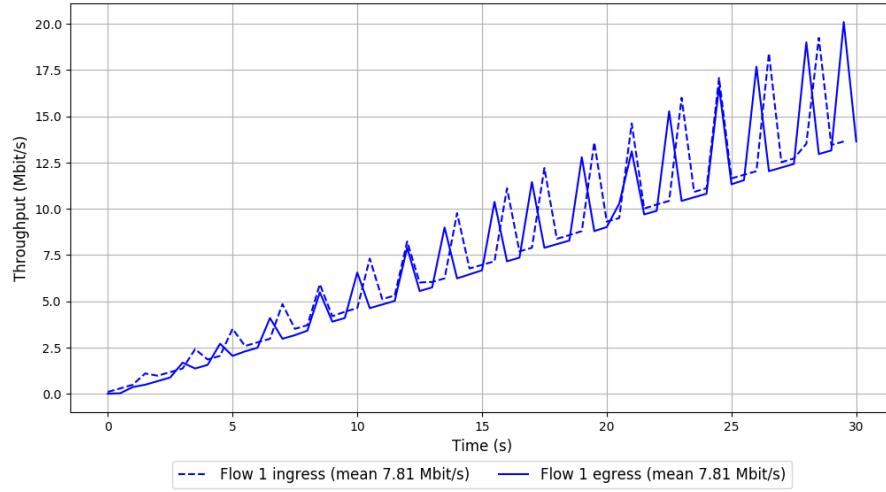


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-01-24 13:21:00
End at: 2019-01-24 13:21:30
Local clock offset: 8.805 ms
Remote clock offset: 11.968 ms

# Below is generated by plot.py at 2019-01-24 17:17:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 111.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 111.829 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

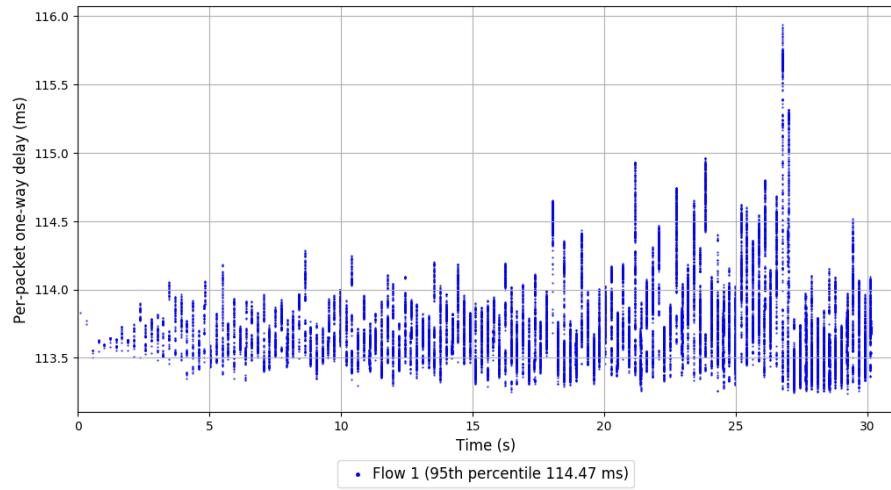
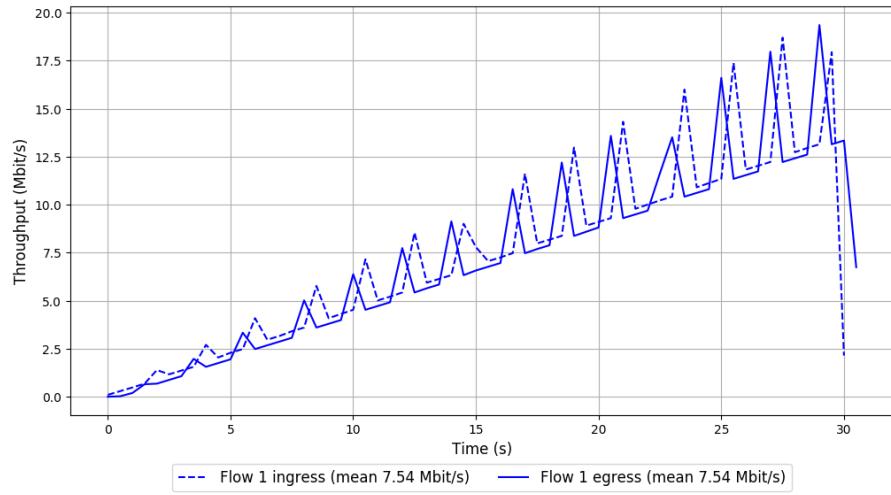


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-24 13:53:26
End at: 2019-01-24 13:53:56
Local clock offset: 18.523 ms
Remote clock offset: 23.331 ms

# Below is generated by plot.py at 2019-01-24 17:17:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.54 Mbit/s
95th percentile per-packet one-way delay: 114.472 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.54 Mbit/s
95th percentile per-packet one-way delay: 114.472 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

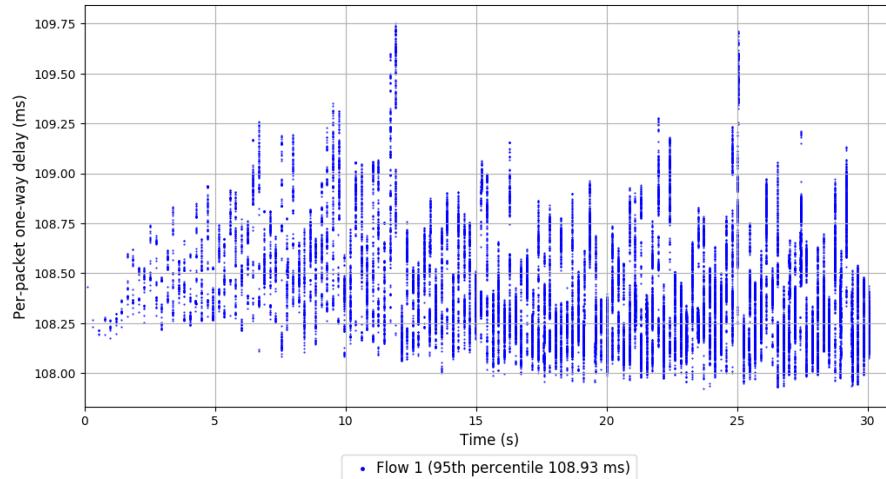
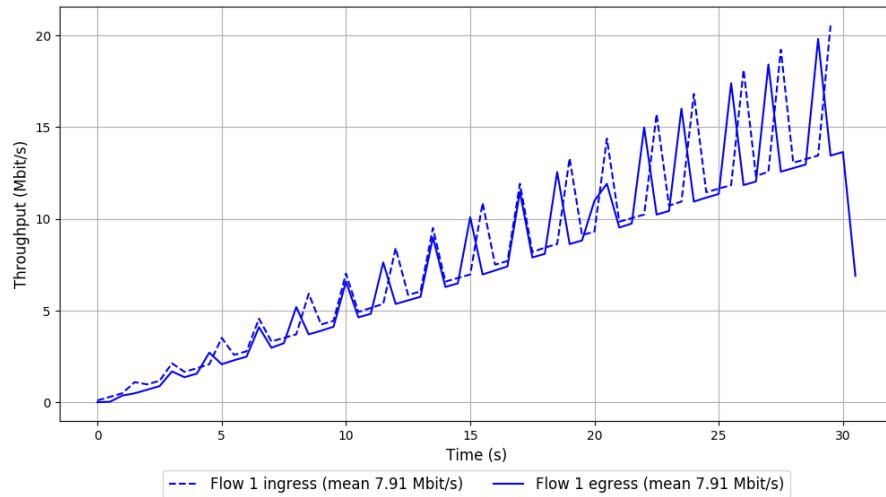


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-24 14:25:50
End at: 2019-01-24 14:26:20
Local clock offset: 7.839 ms
Remote clock offset: 13.664 ms

# Below is generated by plot.py at 2019-01-24 17:17:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 108.929 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 108.929 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

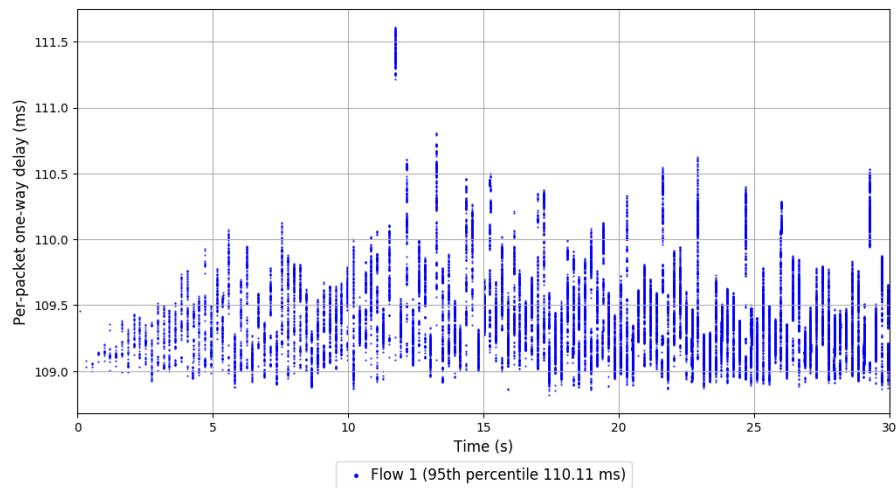
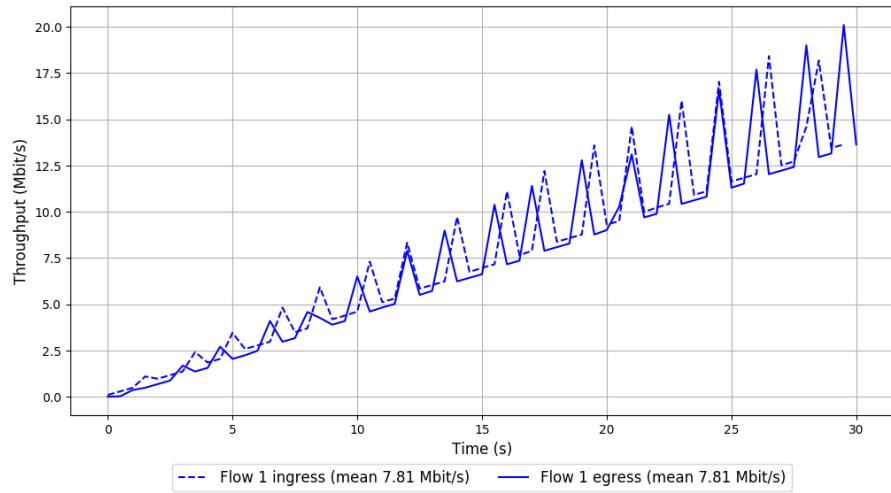


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-24 14:58:30
End at: 2019-01-24 14:59:00
Local clock offset: 2.895 ms
Remote clock offset: 4.52 ms

# Below is generated by plot.py at 2019-01-24 17:17:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 110.108 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 110.108 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

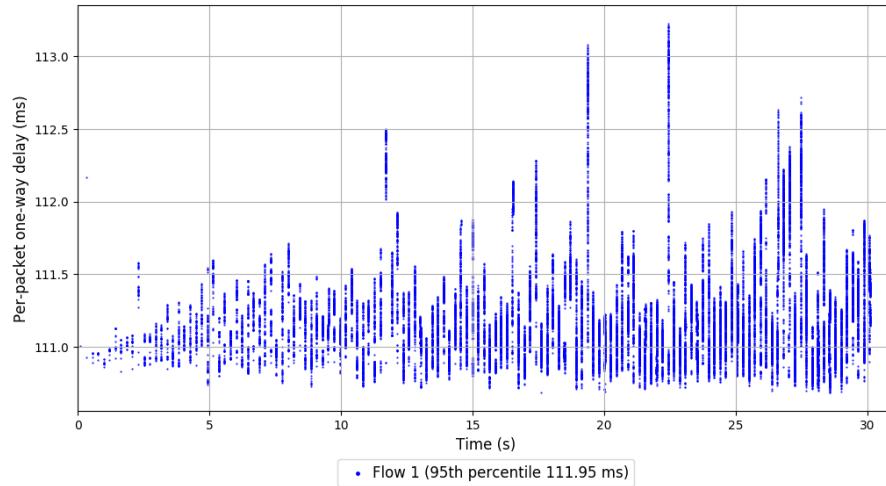
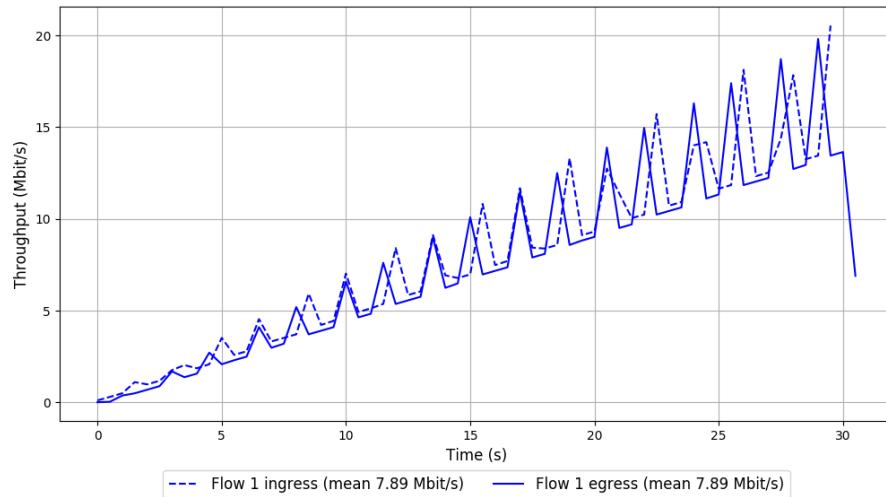


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-24 15:30:57
End at: 2019-01-24 15:31:27
Local clock offset: -0.012 ms
Remote clock offset: 1.41 ms

# Below is generated by plot.py at 2019-01-24 17:17:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 111.953 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 111.953 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

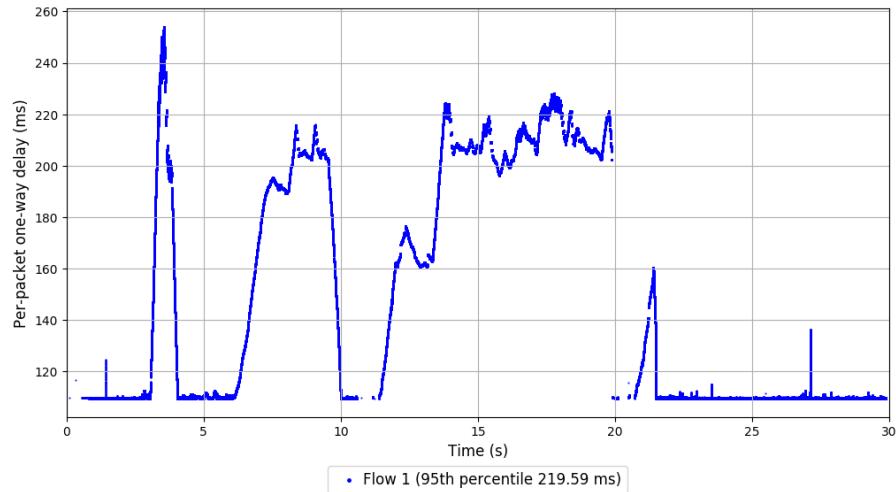
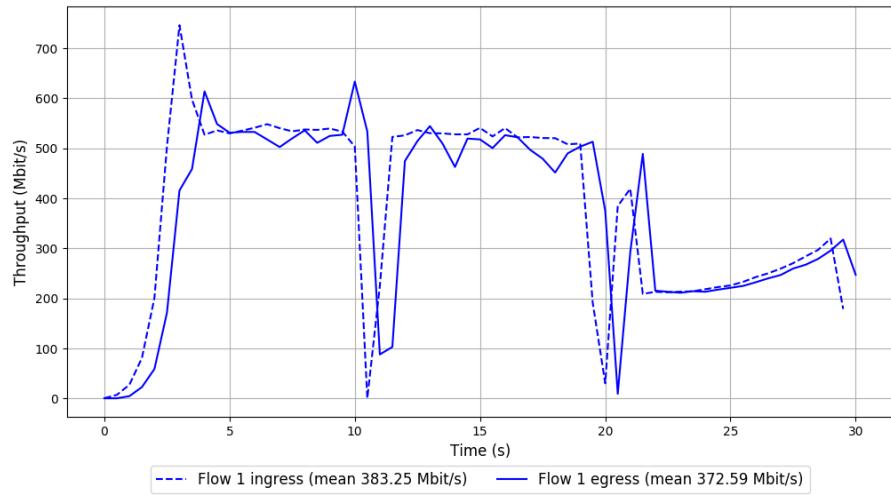


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-24 13:31:40
End at: 2019-01-24 13:32:10
Local clock offset: 18.408 ms
Remote clock offset: 21.821 ms

# Below is generated by plot.py at 2019-01-24 17:19:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 372.59 Mbit/s
95th percentile per-packet one-way delay: 219.585 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 372.59 Mbit/s
95th percentile per-packet one-way delay: 219.585 ms
Loss rate: 2.78%
```

Run 1: Report of PCC-Allegro — Data Link

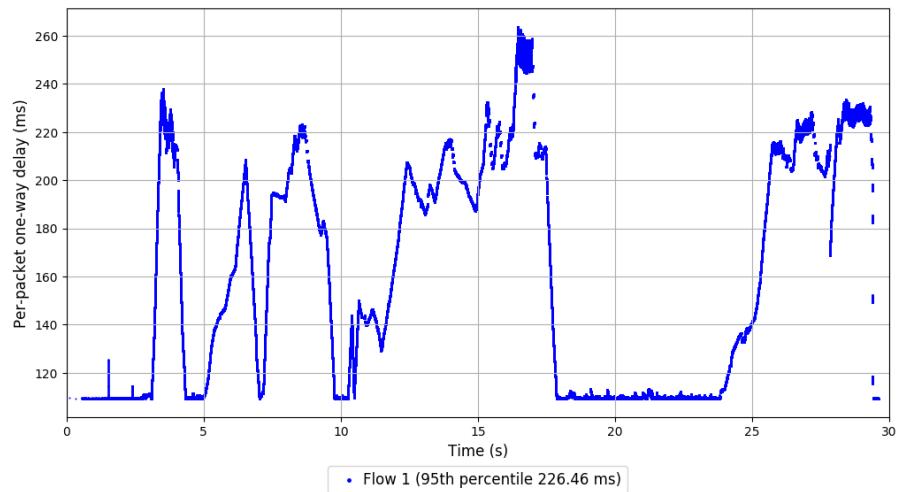
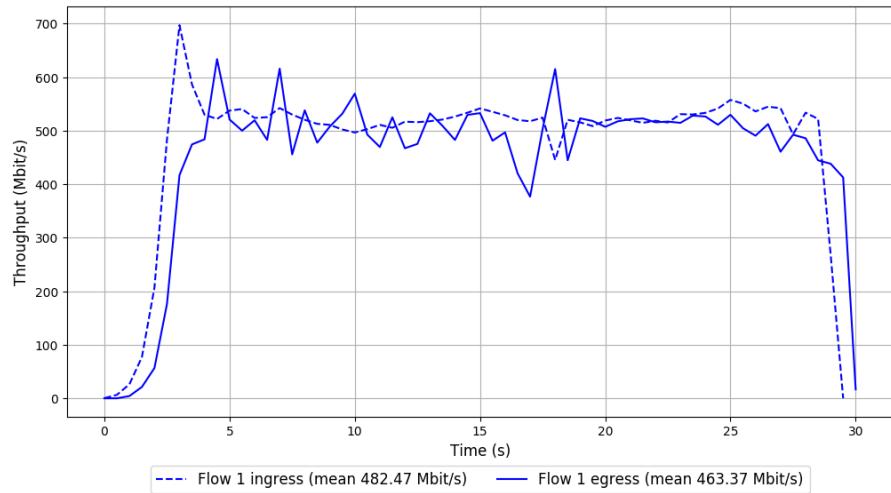


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-24 14:04:09
End at: 2019-01-24 14:04:39
Local clock offset: 28.225 ms
Remote clock offset: 33.163 ms

# Below is generated by plot.py at 2019-01-24 17:22:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 463.37 Mbit/s
95th percentile per-packet one-way delay: 226.461 ms
Loss rate: 3.96%
-- Flow 1:
Average throughput: 463.37 Mbit/s
95th percentile per-packet one-way delay: 226.461 ms
Loss rate: 3.96%
```

Run 2: Report of PCC-Allegro — Data Link

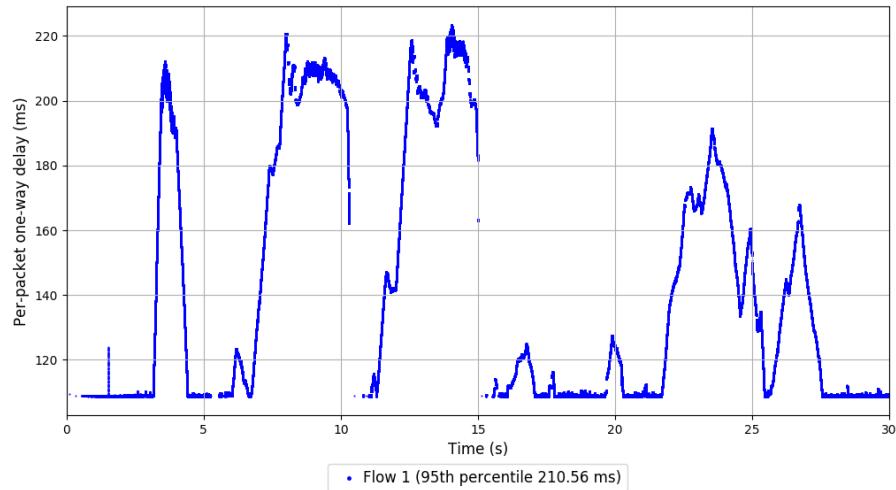
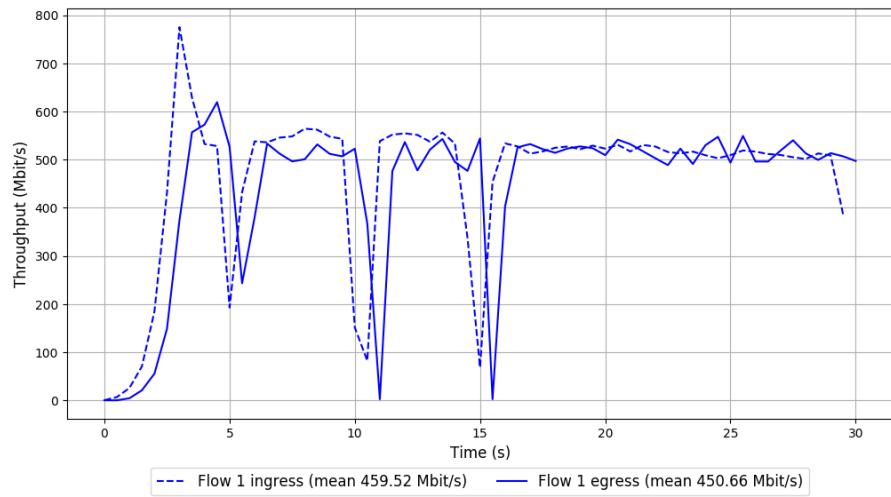


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-24 14:36:37
End at: 2019-01-24 14:37:07
Local clock offset: 7.971 ms
Remote clock offset: 16.232 ms

# Below is generated by plot.py at 2019-01-24 17:27:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 450.66 Mbit/s
95th percentile per-packet one-way delay: 210.560 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 450.66 Mbit/s
95th percentile per-packet one-way delay: 210.560 ms
Loss rate: 1.93%
```

Run 3: Report of PCC-Allegro — Data Link

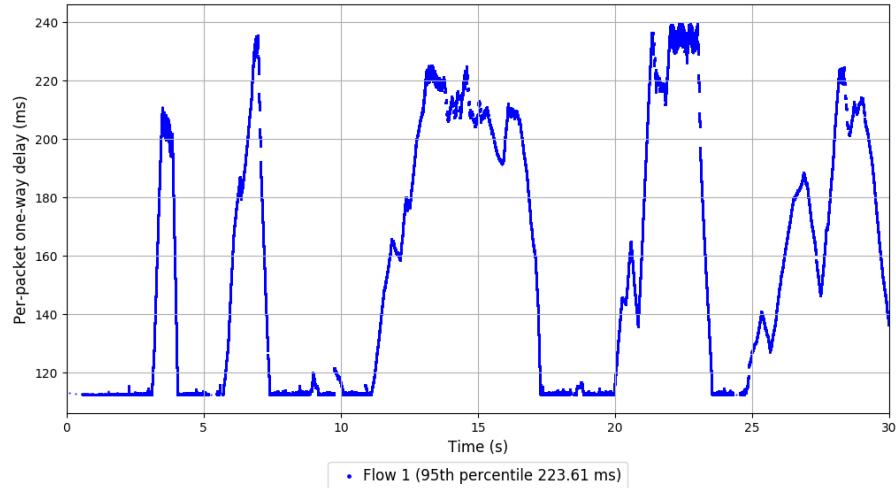
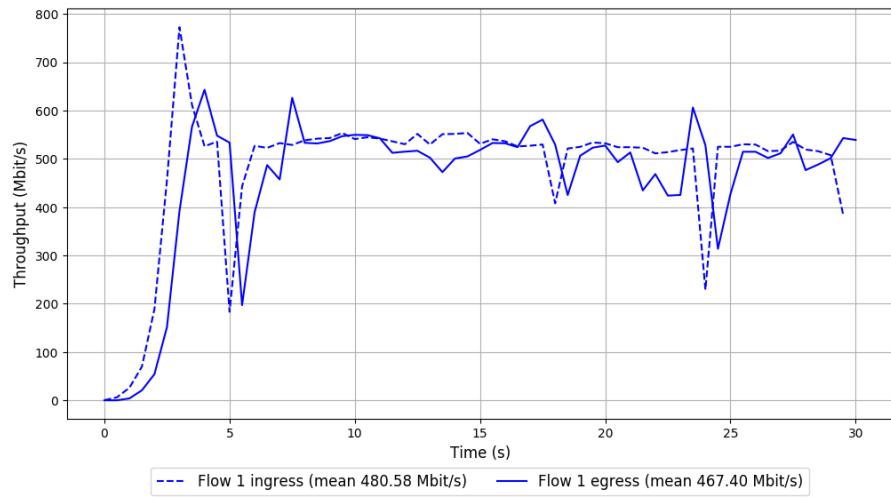


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-24 15:09:08
End at: 2019-01-24 15:09:38
Local clock offset: 2.649 ms
Remote clock offset: 3.928 ms

# Below is generated by plot.py at 2019-01-24 17:29:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 467.40 Mbit/s
95th percentile per-packet one-way delay: 223.614 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 467.40 Mbit/s
95th percentile per-packet one-way delay: 223.614 ms
Loss rate: 2.75%
```

Run 4: Report of PCC-Allegro — Data Link

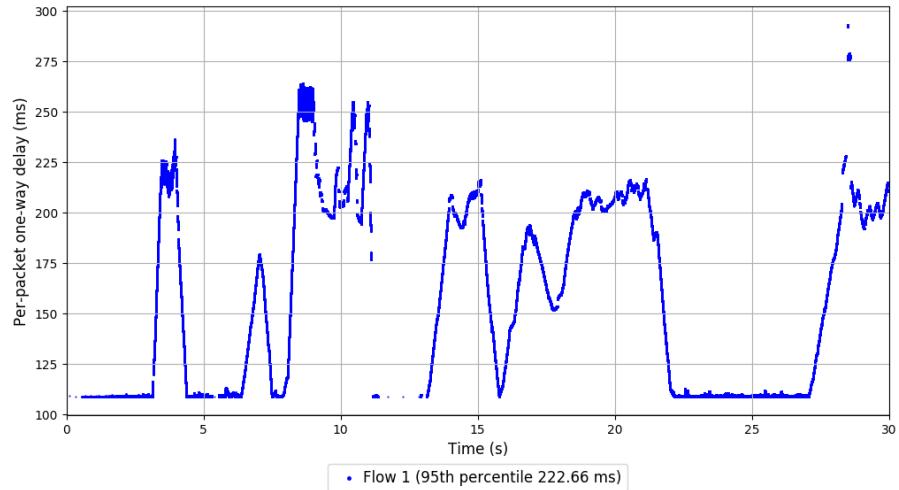
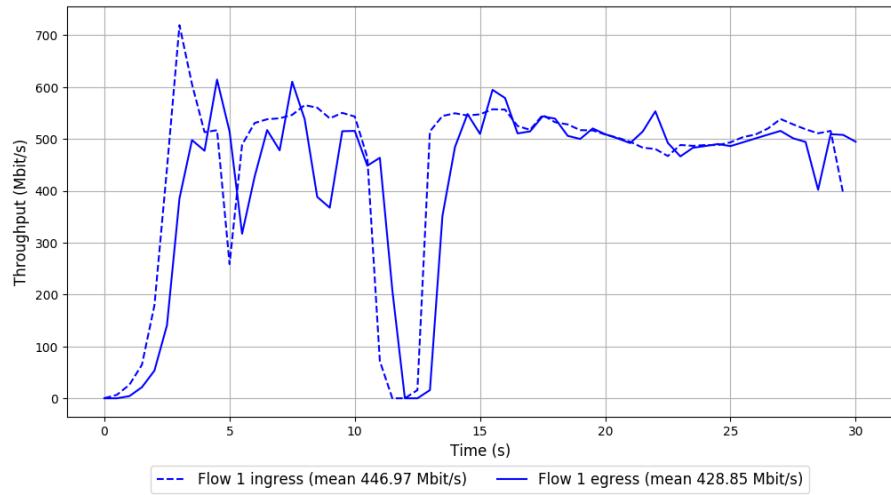


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-24 15:41:40
End at: 2019-01-24 15:42:10
Local clock offset: 1.936 ms
Remote clock offset: 1.765 ms

# Below is generated by plot.py at 2019-01-24 17:29:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 428.85 Mbit/s
95th percentile per-packet one-way delay: 222.663 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 428.85 Mbit/s
95th percentile per-packet one-way delay: 222.663 ms
Loss rate: 4.05%
```

Run 5: Report of PCC-Allegro — Data Link

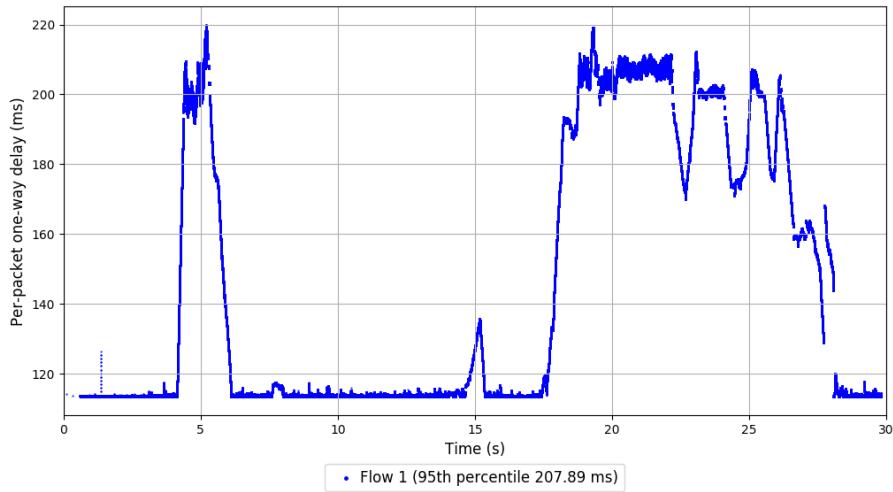
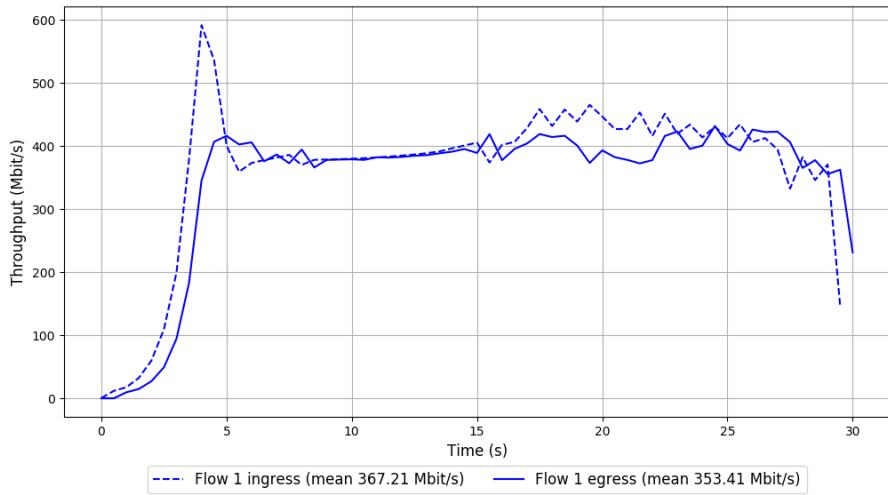


Run 1: Statistics of PCC-Expr

```
Start at: 2019-01-24 13:28:25
End at: 2019-01-24 13:28:55
Local clock offset: 13.686 ms
Remote clock offset: 17.952 ms

# Below is generated by plot.py at 2019-01-24 17:29:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 353.41 Mbit/s
95th percentile per-packet one-way delay: 207.889 ms
Loss rate: 3.77%
-- Flow 1:
Average throughput: 353.41 Mbit/s
95th percentile per-packet one-way delay: 207.889 ms
Loss rate: 3.77%
```

Run 1: Report of PCC-Expr — Data Link

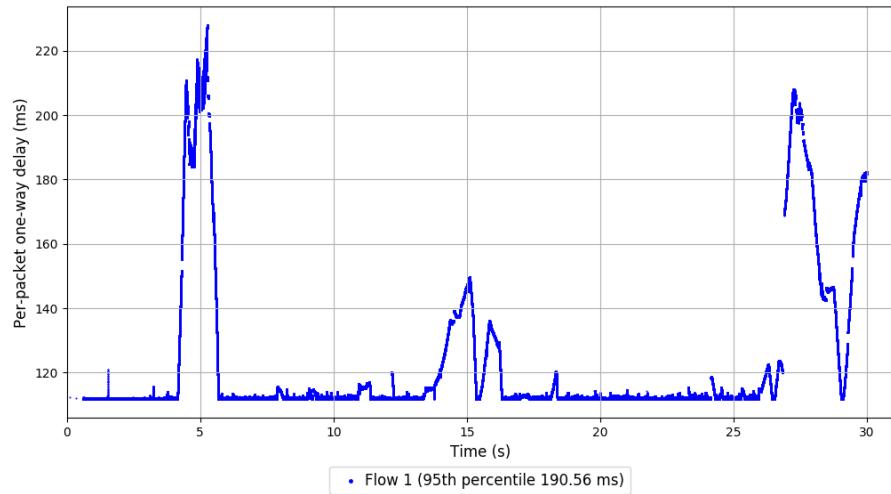
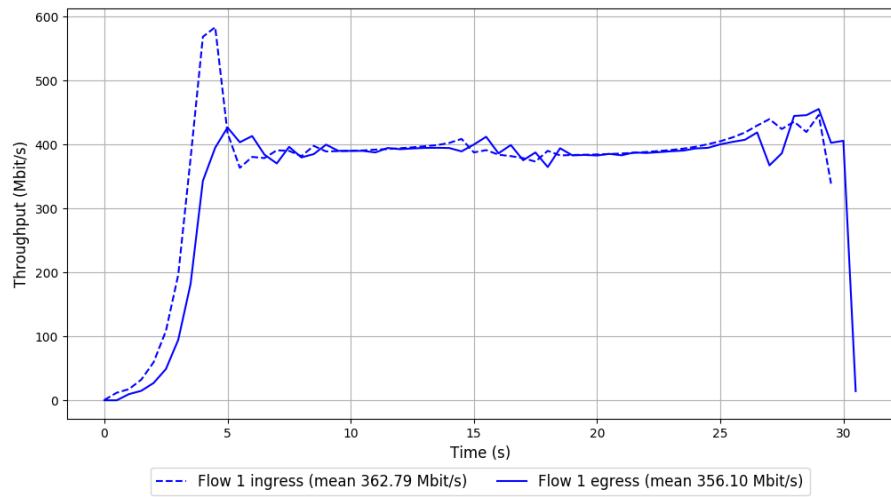


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-24 14:00:54
End at: 2019-01-24 14:01:24
Local clock offset: 24.457 ms
Remote clock offset: 29.667 ms

# Below is generated by plot.py at 2019-01-24 17:29:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.10 Mbit/s
95th percentile per-packet one-way delay: 190.556 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 356.10 Mbit/s
95th percentile per-packet one-way delay: 190.556 ms
Loss rate: 1.85%
```

Run 2: Report of PCC-Expr — Data Link

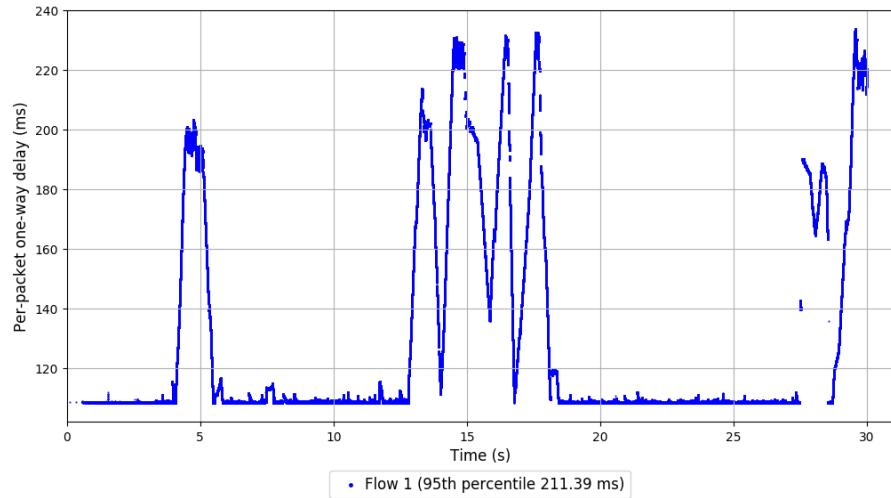
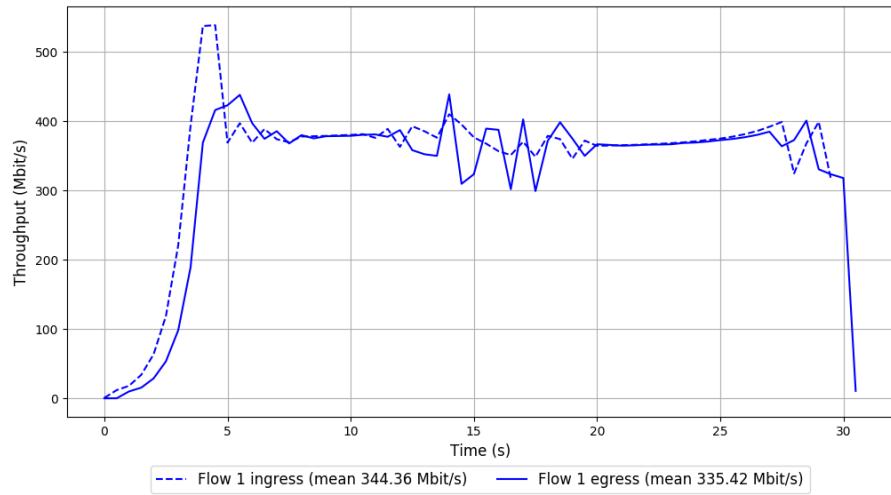


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-24 14:33:22
End at: 2019-01-24 14:33:52
Local clock offset: 7.203 ms
Remote clock offset: 15.476 ms

# Below is generated by plot.py at 2019-01-24 17:29:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.42 Mbit/s
95th percentile per-packet one-way delay: 211.389 ms
Loss rate: 2.59%
-- Flow 1:
Average throughput: 335.42 Mbit/s
95th percentile per-packet one-way delay: 211.389 ms
Loss rate: 2.59%
```

Run 3: Report of PCC-Expr — Data Link

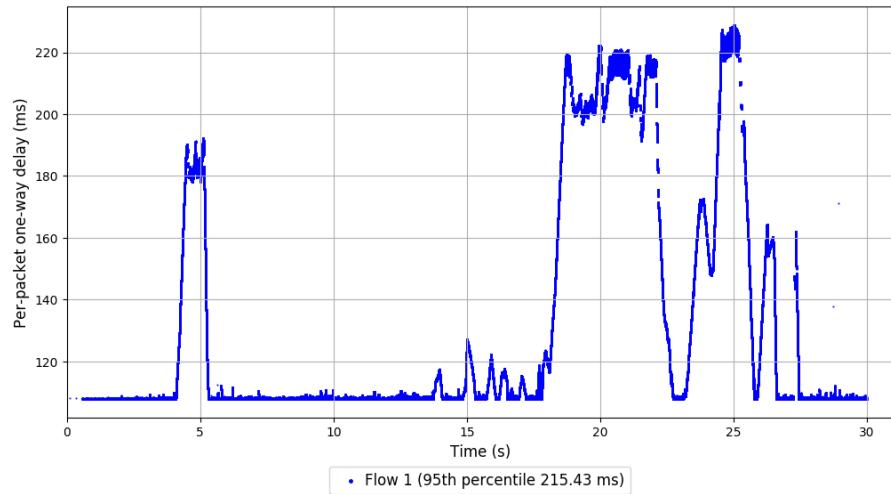
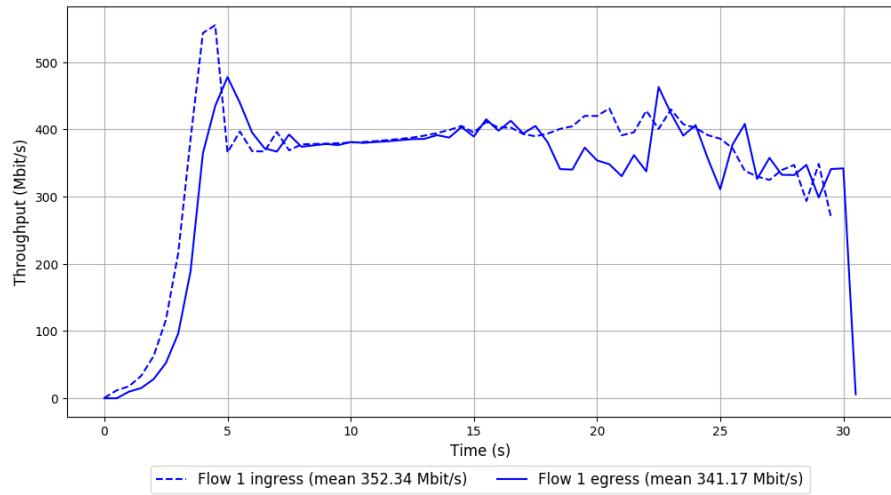


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-24 15:05:54
End at: 2019-01-24 15:06:24
Local clock offset: 4.307 ms
Remote clock offset: 3.868 ms

# Below is generated by plot.py at 2019-01-24 17:31:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.17 Mbit/s
95th percentile per-packet one-way delay: 215.429 ms
Loss rate: 3.17%
-- Flow 1:
Average throughput: 341.17 Mbit/s
95th percentile per-packet one-way delay: 215.429 ms
Loss rate: 3.17%
```

Run 4: Report of PCC-Expr — Data Link

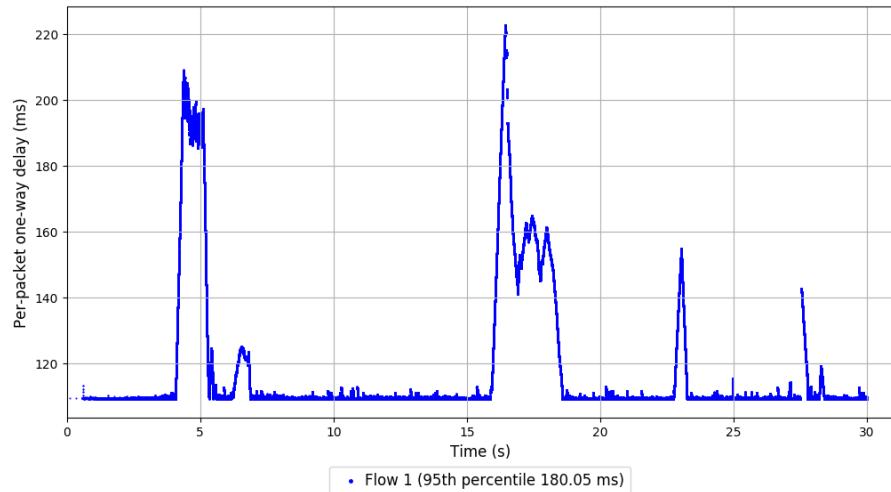
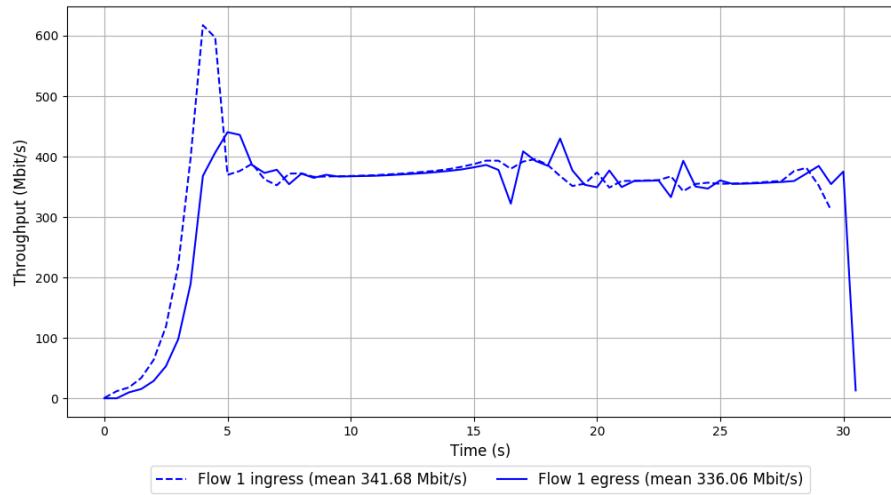


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-24 15:38:26
End at: 2019-01-24 15:38:56
Local clock offset: 1.322 ms
Remote clock offset: 1.442 ms

# Below is generated by plot.py at 2019-01-24 17:36:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.06 Mbit/s
95th percentile per-packet one-way delay: 180.051 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 336.06 Mbit/s
95th percentile per-packet one-way delay: 180.051 ms
Loss rate: 1.64%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

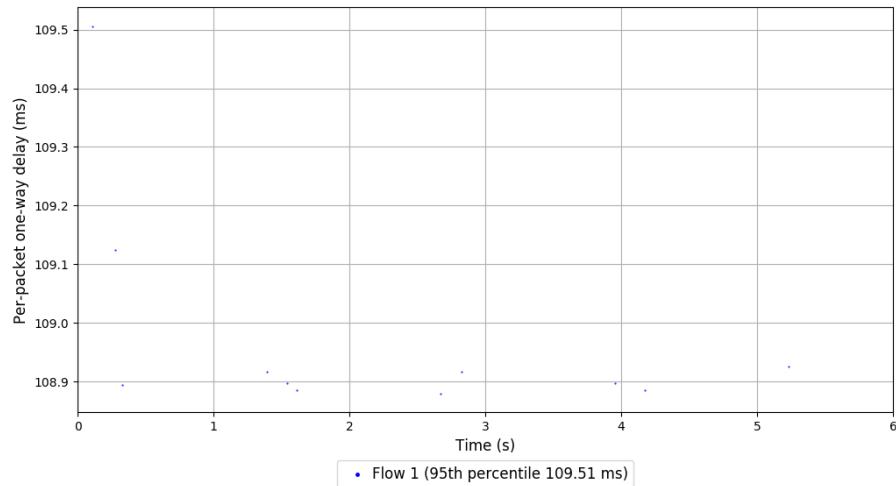
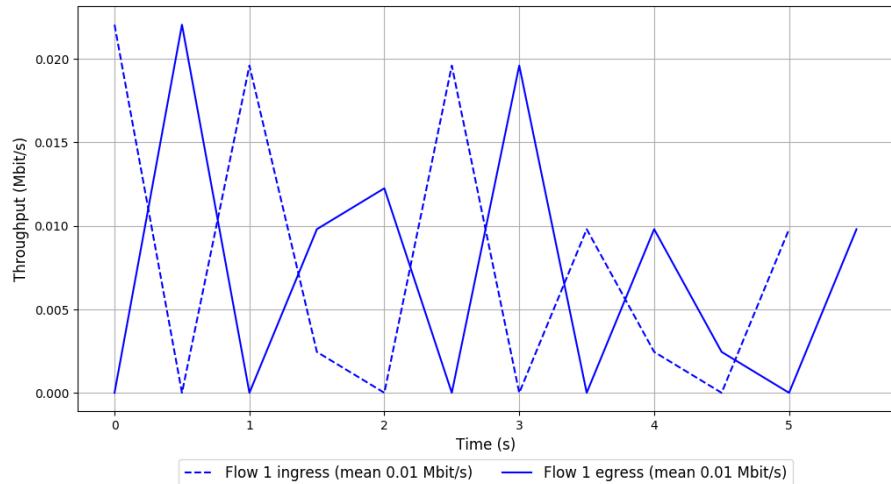
Start at: 2019-01-24 13:22:12

End at: 2019-01-24 13:22:42

Local clock offset: 11.036 ms

Remote clock offset: 12.265 ms

Run 1: Report of QUIC Cubic — Data Link

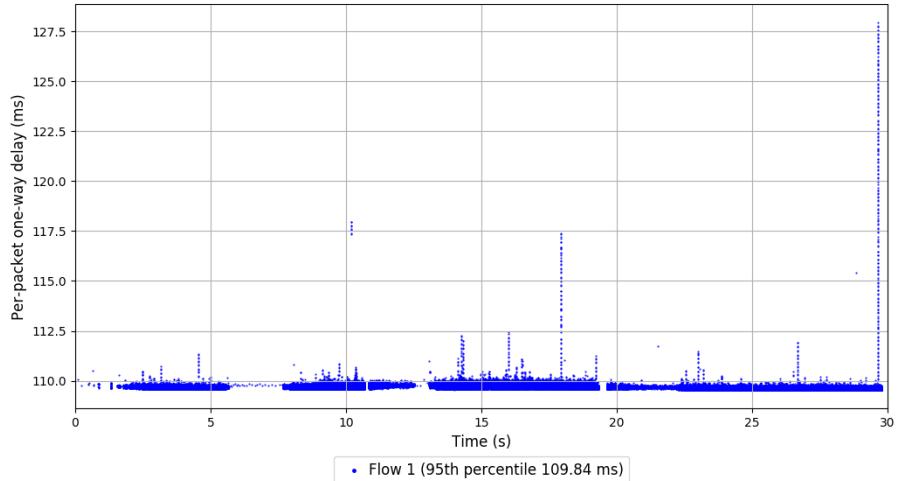
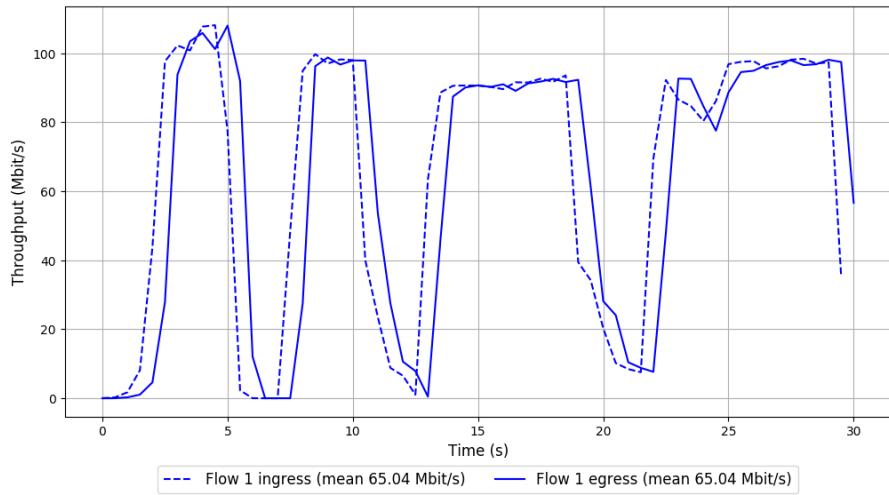


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-24 13:54:37
End at: 2019-01-24 13:55:07
Local clock offset: 20.411 ms
Remote clock offset: 24.341 ms

# Below is generated by plot.py at 2019-01-24 17:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.04 Mbit/s
95th percentile per-packet one-way delay: 109.840 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.04 Mbit/s
95th percentile per-packet one-way delay: 109.840 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

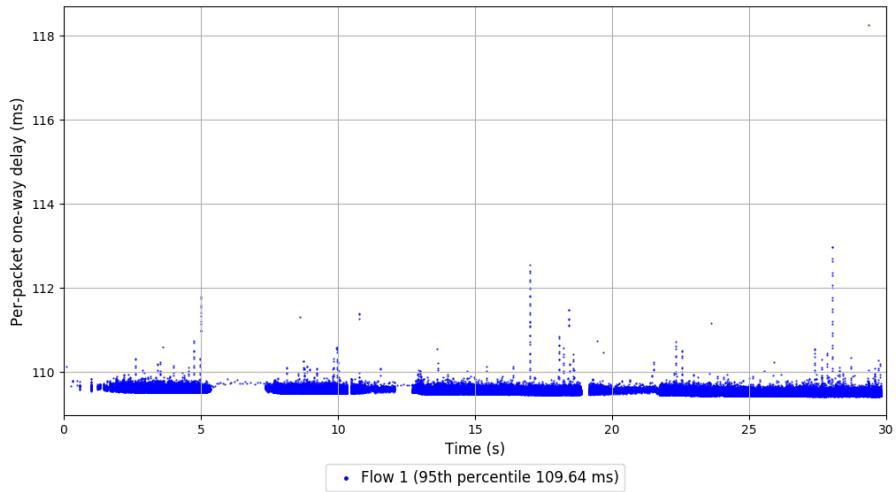
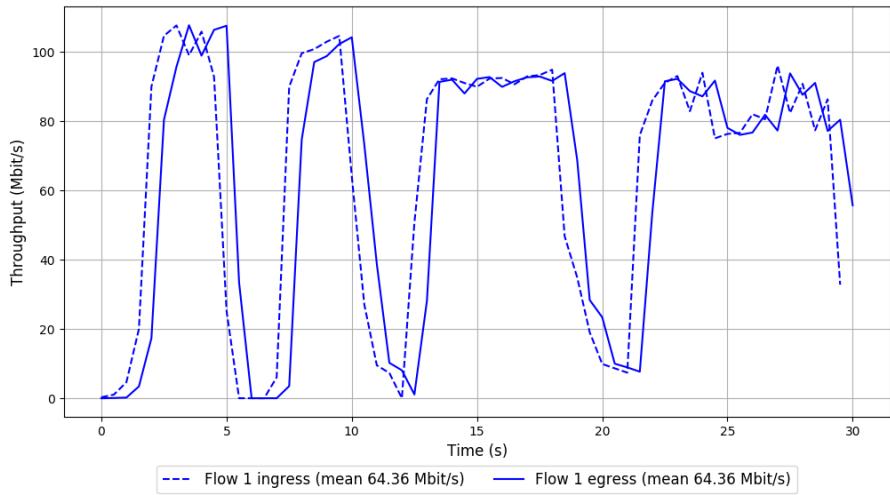


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-24 14:27:01
End at: 2019-01-24 14:27:31
Local clock offset: 7.559 ms
Remote clock offset: 14.205 ms

# Below is generated by plot.py at 2019-01-24 17:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.36 Mbit/s
95th percentile per-packet one-way delay: 109.640 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.36 Mbit/s
95th percentile per-packet one-way delay: 109.640 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

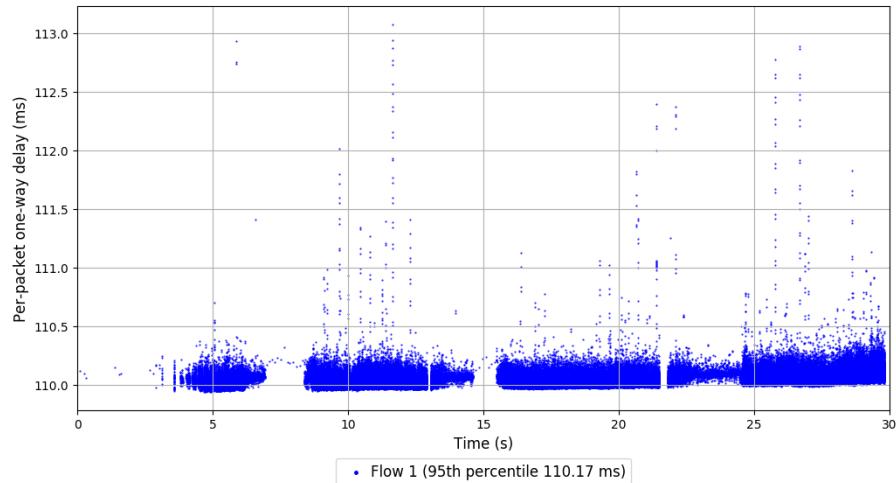
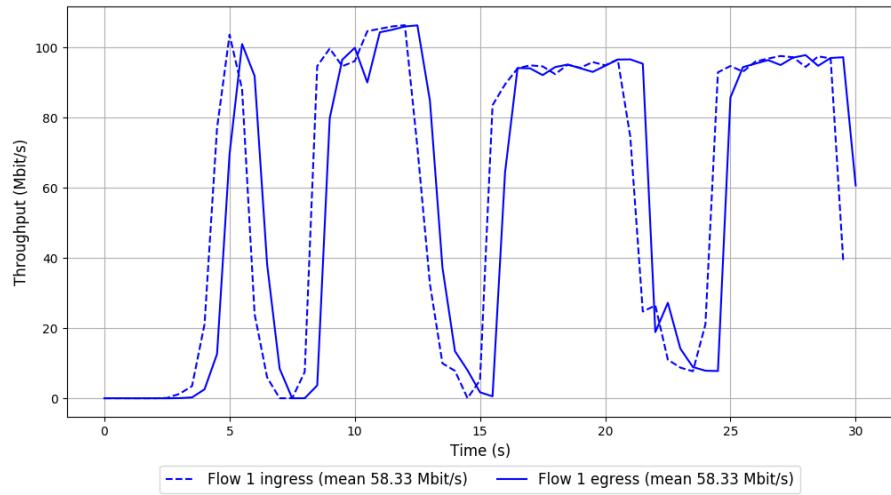


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-24 14:59:41
End at: 2019-01-24 15:00:11
Local clock offset: 2.113 ms
Remote clock offset: 4.258 ms

# Below is generated by plot.py at 2019-01-24 17:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.33 Mbit/s
95th percentile per-packet one-way delay: 110.169 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.33 Mbit/s
95th percentile per-packet one-way delay: 110.169 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

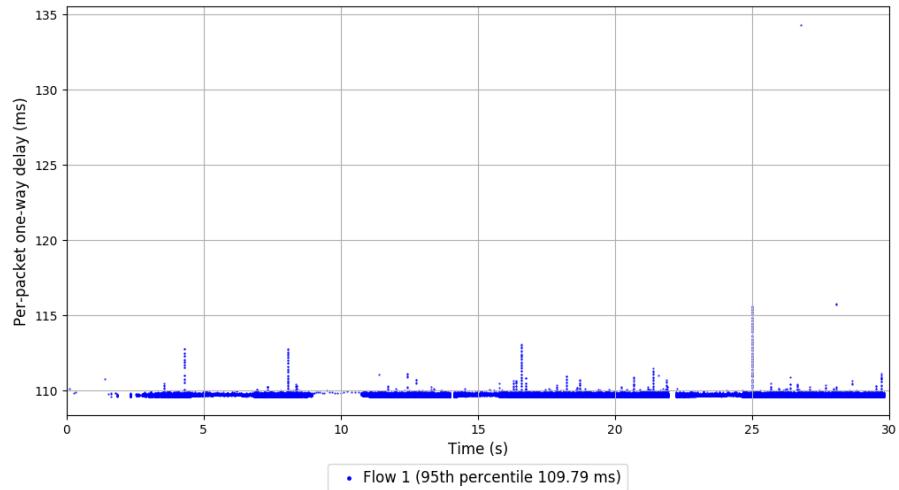
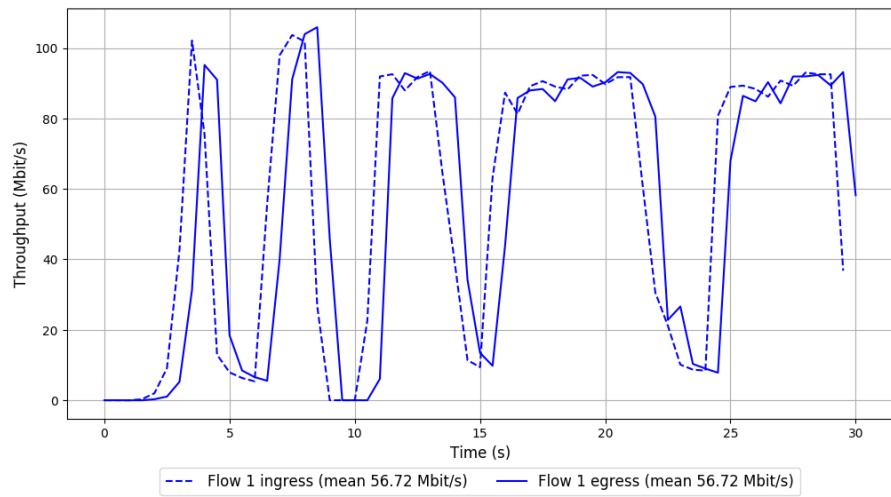


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-24 15:32:08
End at: 2019-01-24 15:32:38
Local clock offset: 0.544 ms
Remote clock offset: 1.006 ms

# Below is generated by plot.py at 2019-01-24 17:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.72 Mbit/s
95th percentile per-packet one-way delay: 109.786 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.72 Mbit/s
95th percentile per-packet one-way delay: 109.786 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

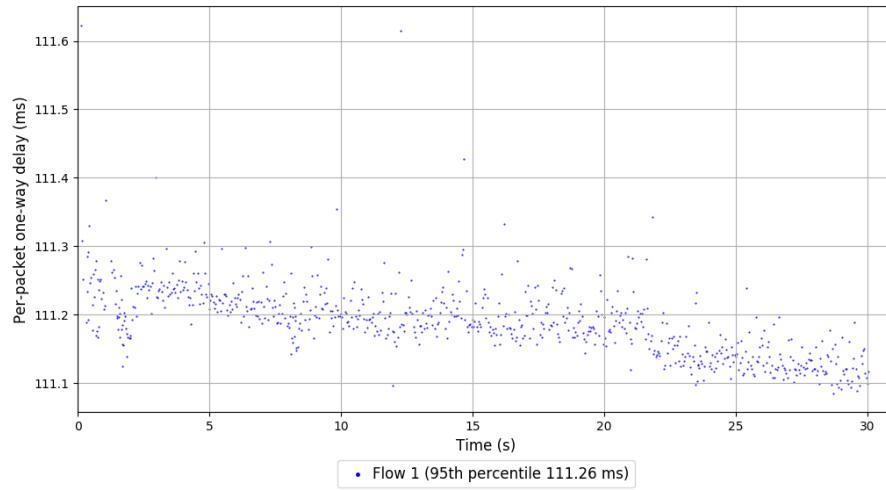
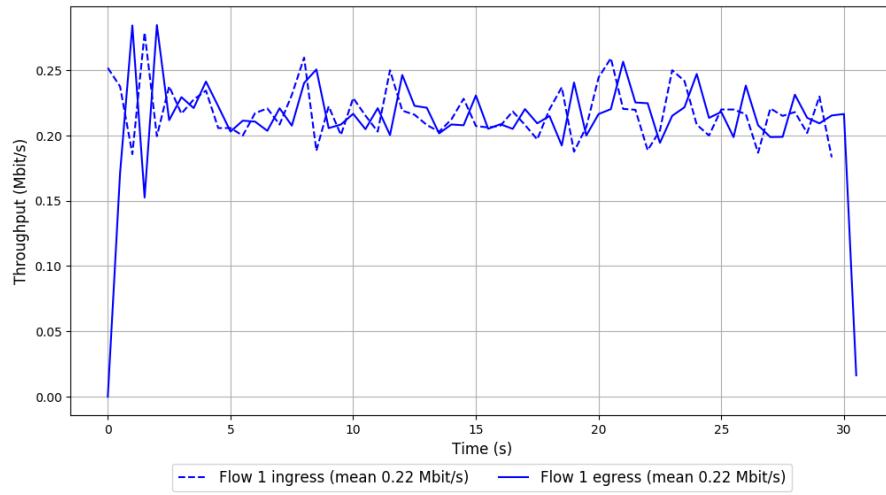


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-01-24 13:15:37
End at: 2019-01-24 13:16:07
Local clock offset: 11.133 ms
Remote clock offset: 15.073 ms

# Below is generated by plot.py at 2019-01-24 17:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.264 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.264 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

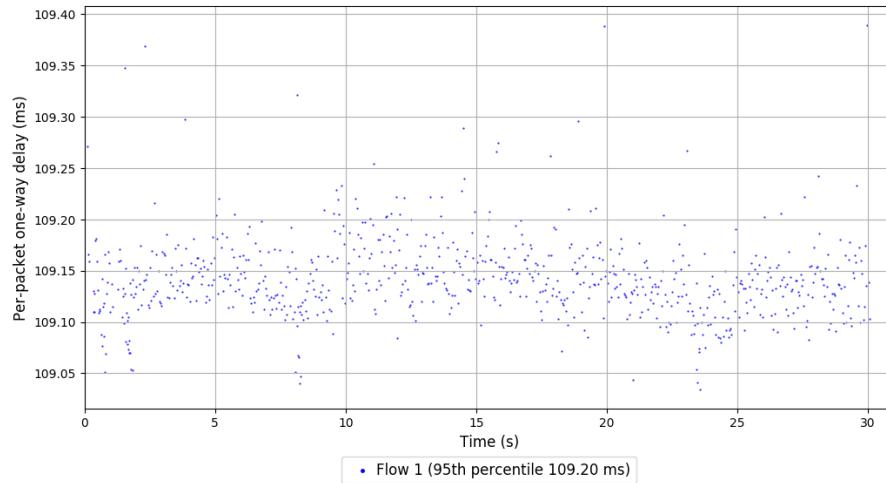
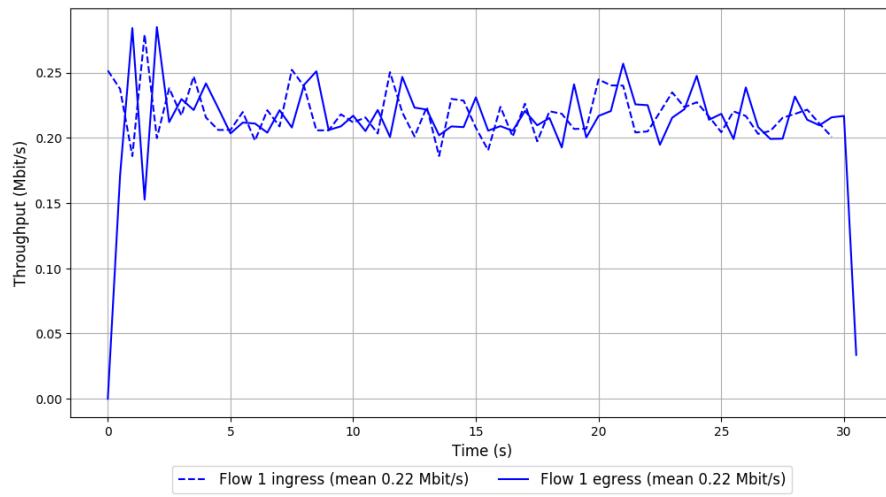


Run 2: Statistics of SCReAM

```
Start at: 2019-01-24 13:48:00
End at: 2019-01-24 13:48:30
Local clock offset: 16.534 ms
Remote clock offset: 19.311 ms

# Below is generated by plot.py at 2019-01-24 17:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.205 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.205 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

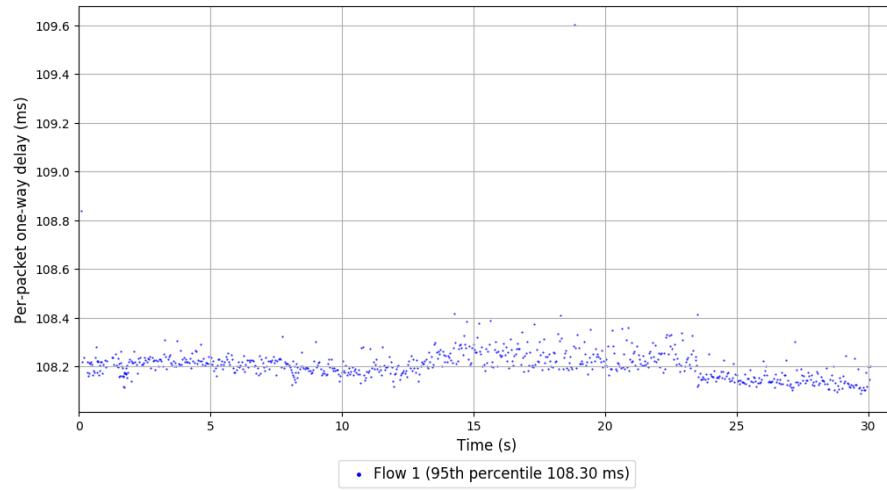
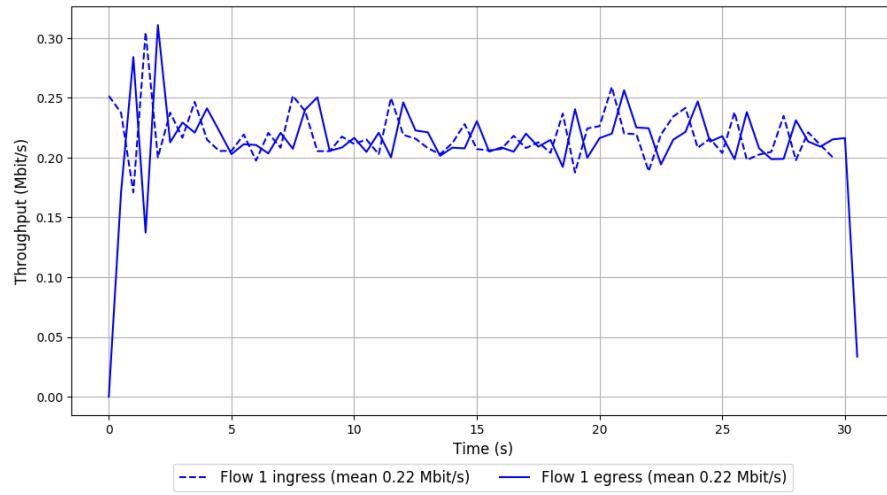


Run 3: Statistics of SCReAM

```
Start at: 2019-01-24 14:20:27
End at: 2019-01-24 14:20:57
Local clock offset: 9.878 ms
Remote clock offset: 14.611 ms

# Below is generated by plot.py at 2019-01-24 17:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.298 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.298 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

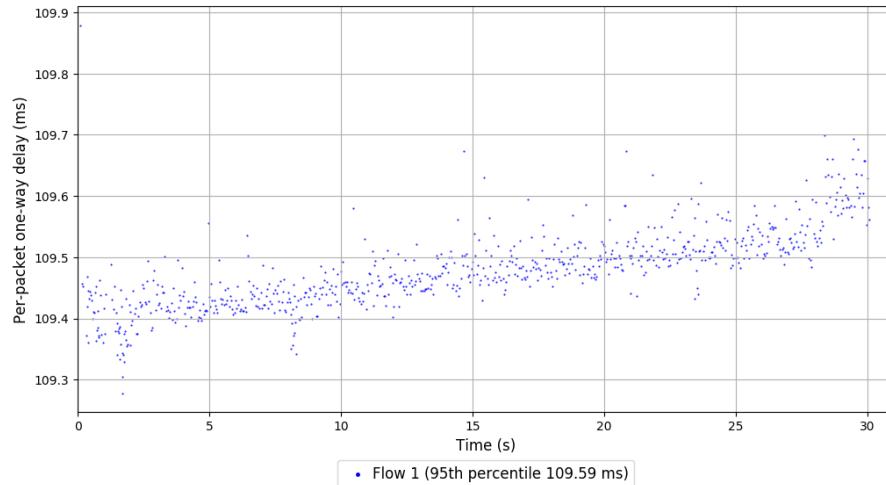
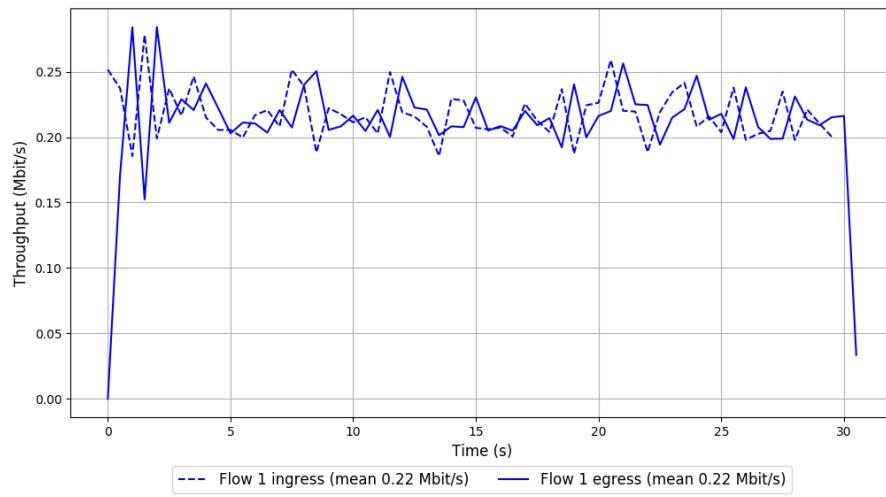


Run 4: Statistics of SCReAM

```
Start at: 2019-01-24 14:53:05
End at: 2019-01-24 14:53:35
Local clock offset: 3.283 ms
Remote clock offset: 6.266 ms

# Below is generated by plot.py at 2019-01-24 17:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.590 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.590 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

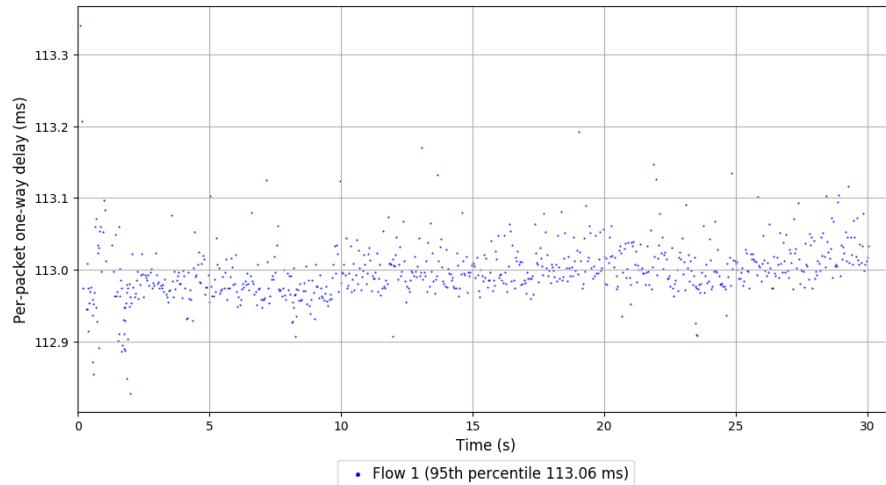
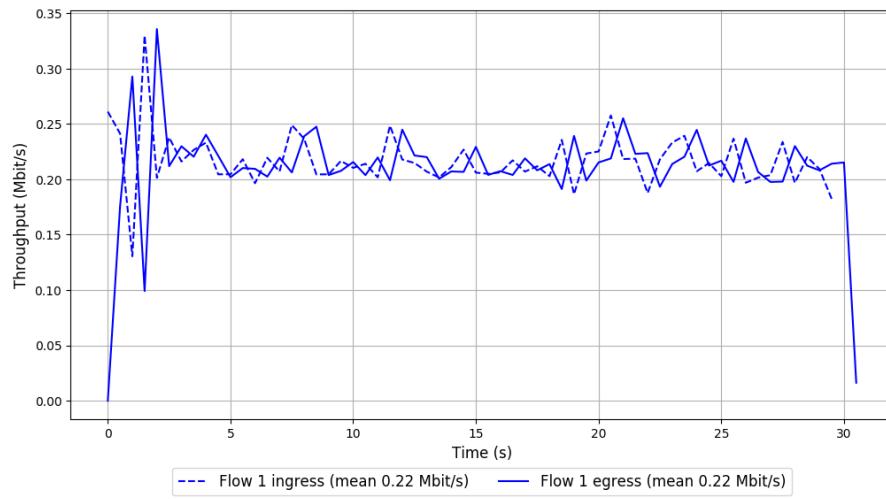


Run 5: Statistics of SCReAM

```
Start at: 2019-01-24 15:25:36
End at: 2019-01-24 15:26:06
Local clock offset: 0.28 ms
Remote clock offset: 2.148 ms

# Below is generated by plot.py at 2019-01-24 17:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.064 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.064 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

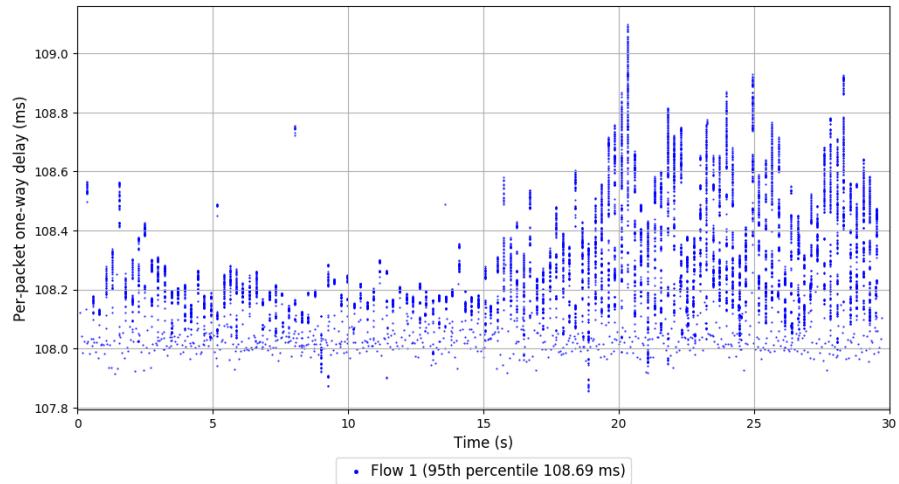
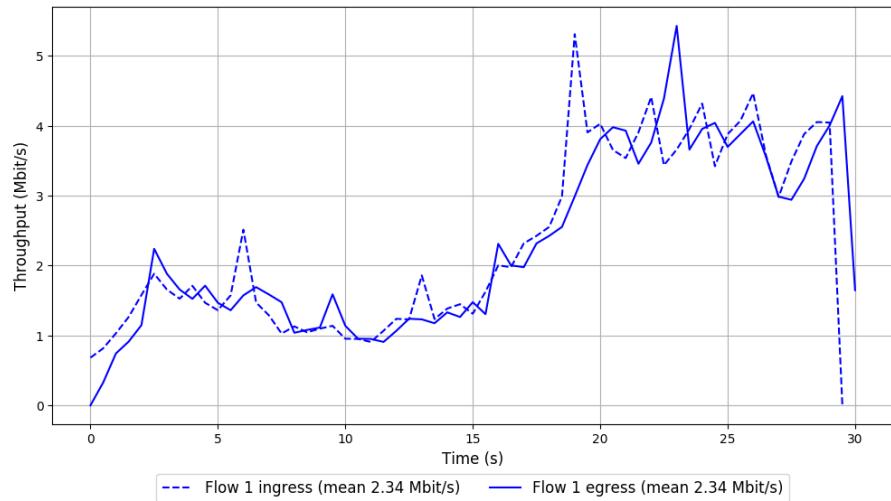


Run 1: Statistics of Sprout

```
Start at: 2019-01-24 13:09:31
End at: 2019-01-24 13:10:01
Local clock offset: 8.332 ms
Remote clock offset: 8.069 ms

# Below is generated by plot.py at 2019-01-24 17:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 108.686 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 108.686 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

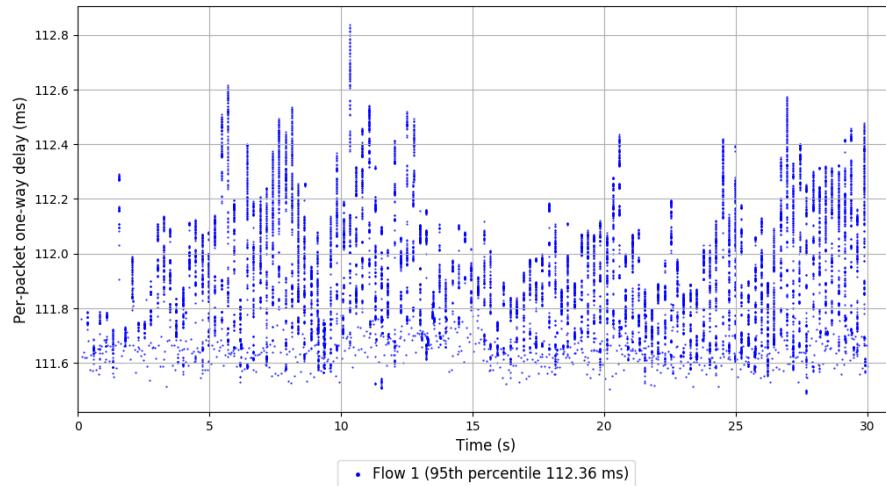
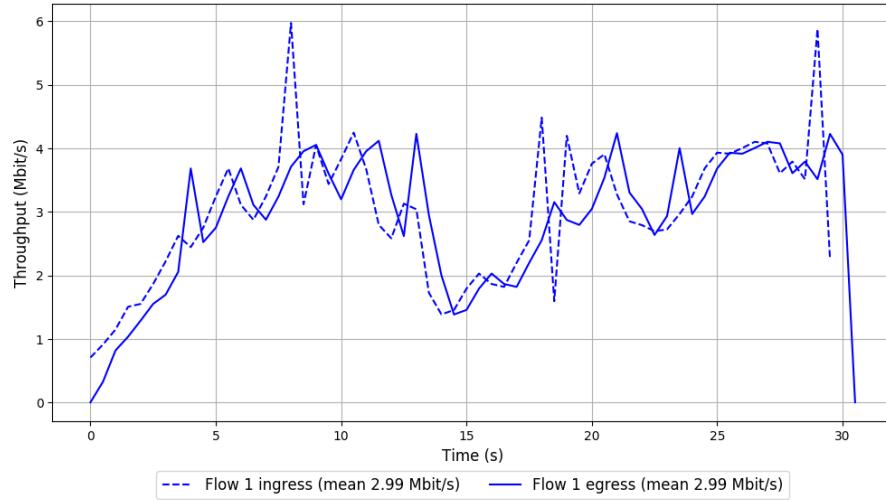


Run 2: Statistics of Sprout

```
Start at: 2019-01-24 13:42:00
End at: 2019-01-24 13:42:30
Local clock offset: 15.857 ms
Remote clock offset: 17.967 ms

# Below is generated by plot.py at 2019-01-24 17:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 112.359 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 112.359 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

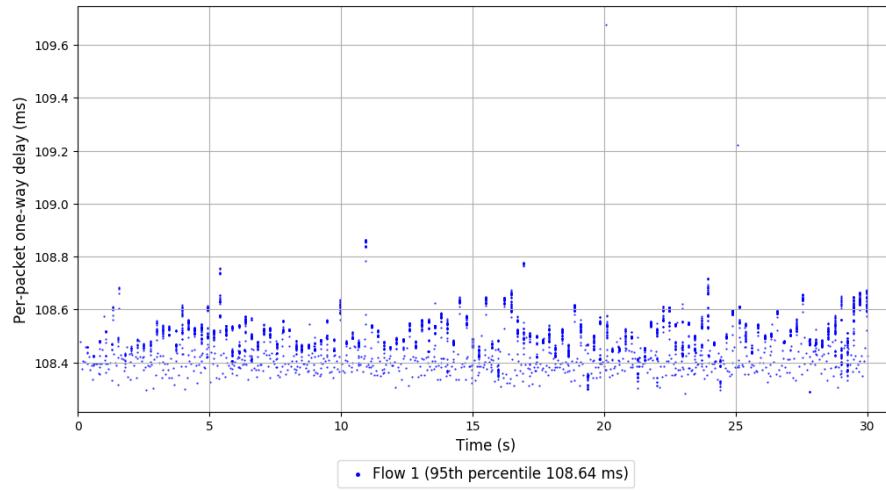
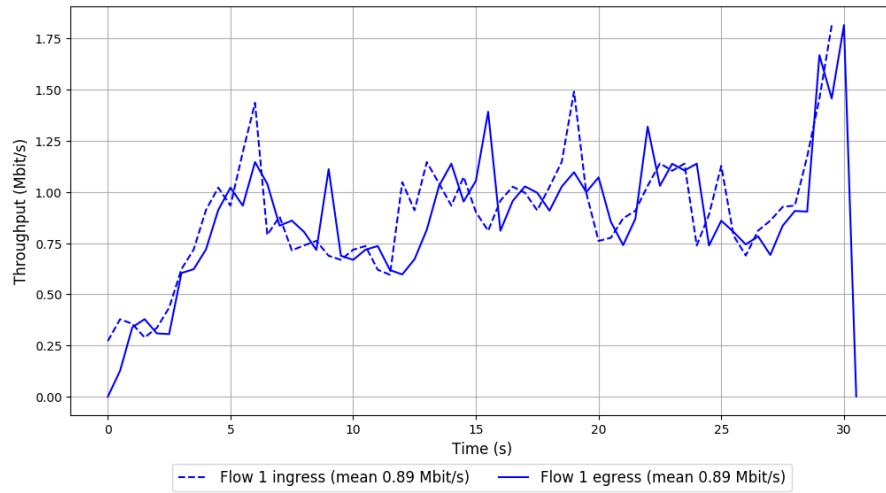


Run 3: Statistics of Sprout

```
Start at: 2019-01-24 14:14:27
End at: 2019-01-24 14:14:57
Local clock offset: 15.789 ms
Remote clock offset: 19.197 ms

# Below is generated by plot.py at 2019-01-24 17:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 108.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 108.636 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

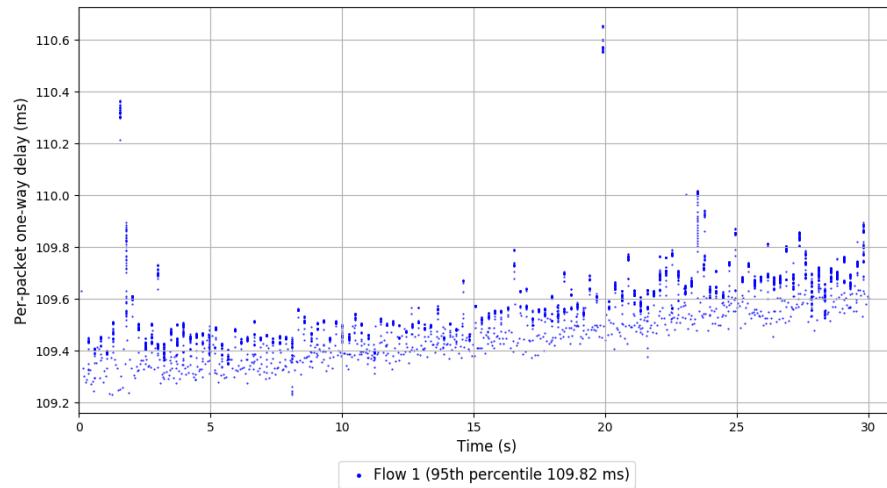
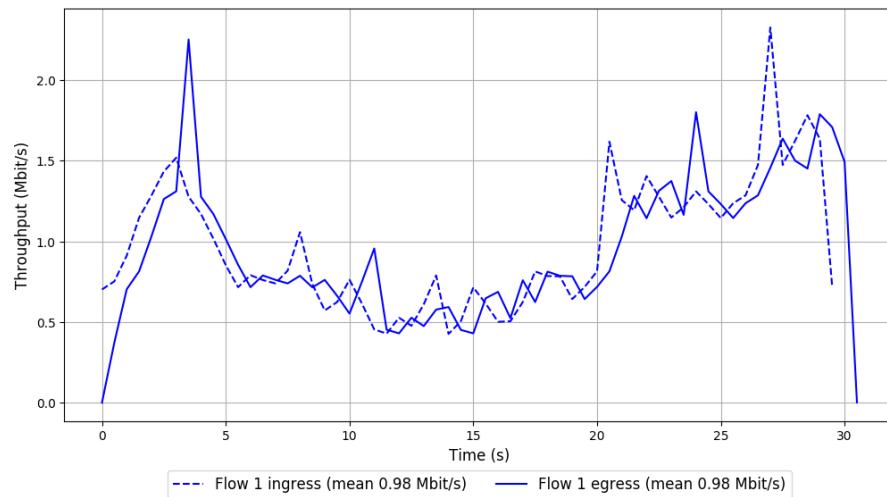


Run 4: Statistics of Sprout

```
Start at: 2019-01-24 14:47:00
End at: 2019-01-24 14:47:30
Local clock offset: 5.2 ms
Remote clock offset: 10.562 ms

# Below is generated by plot.py at 2019-01-24 17:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 109.822 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 109.822 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

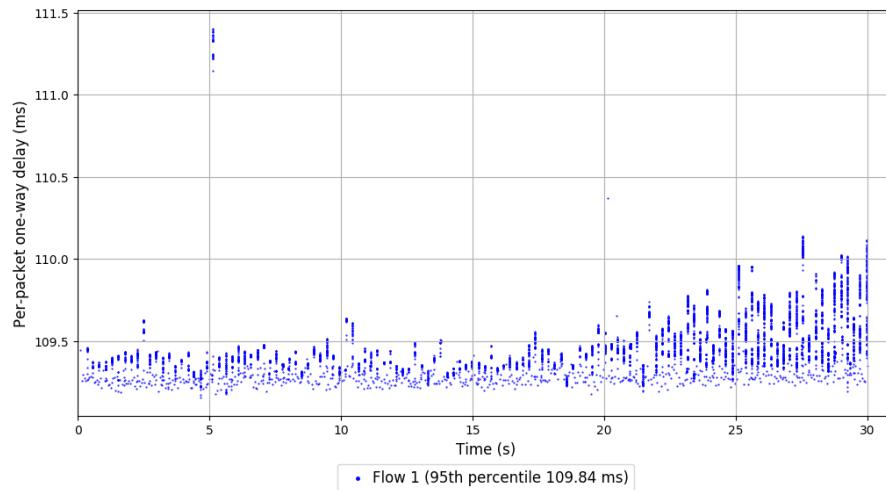
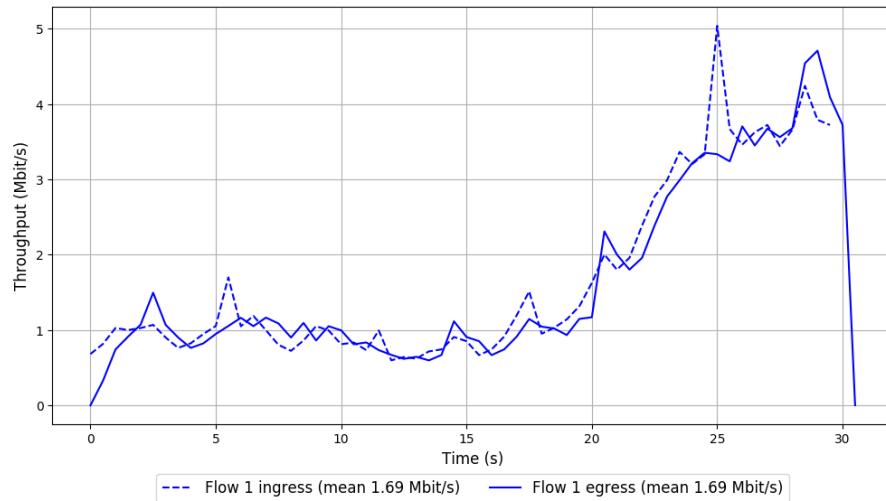


Run 5: Statistics of Sprout

```
Start at: 2019-01-24 15:19:24
End at: 2019-01-24 15:19:54
Local clock offset: 2.502 ms
Remote clock offset: 2.94 ms

# Below is generated by plot.py at 2019-01-24 17:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 109.841 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 109.841 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

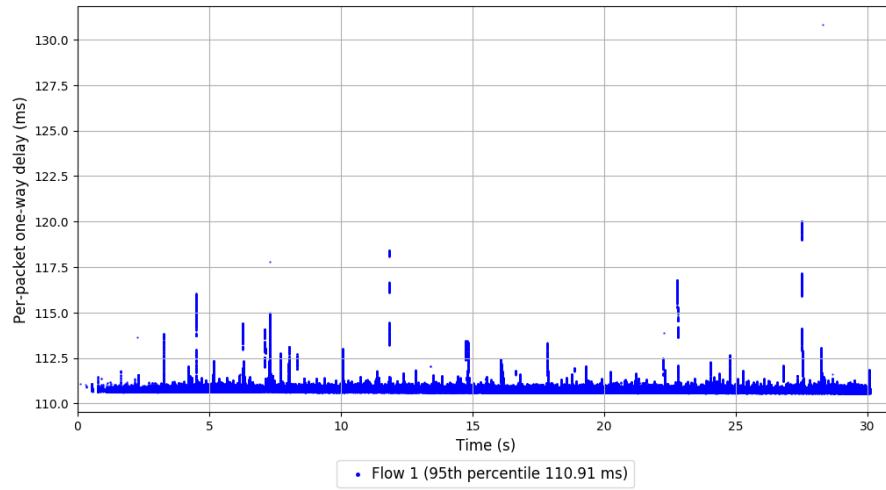
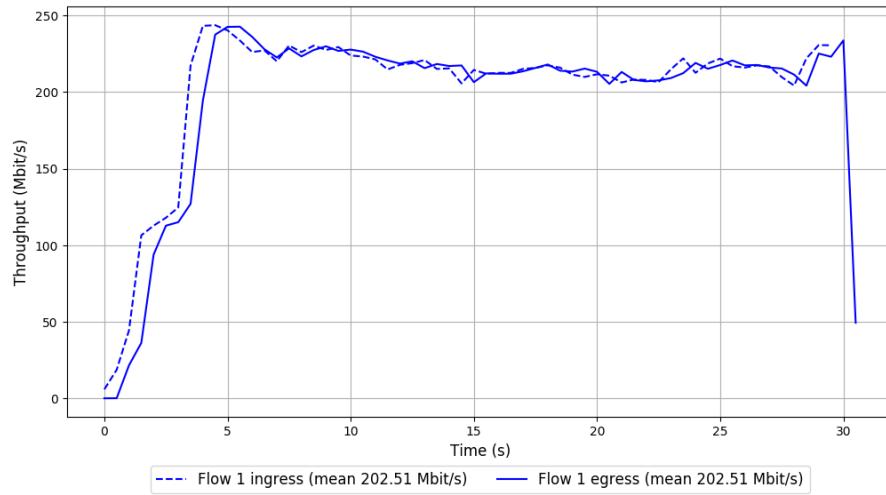


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-24 13:30:10
End at: 2019-01-24 13:30:40
Local clock offset: 15.576 ms
Remote clock offset: 19.896 ms

# Below is generated by plot.py at 2019-01-24 17:36:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.51 Mbit/s
95th percentile per-packet one-way delay: 110.910 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.51 Mbit/s
95th percentile per-packet one-way delay: 110.910 ms
Loss rate: 0.00%
```

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

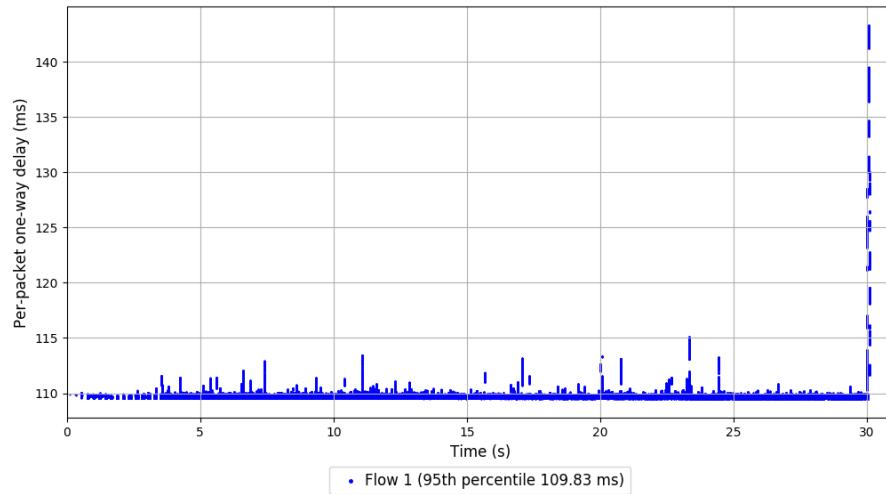
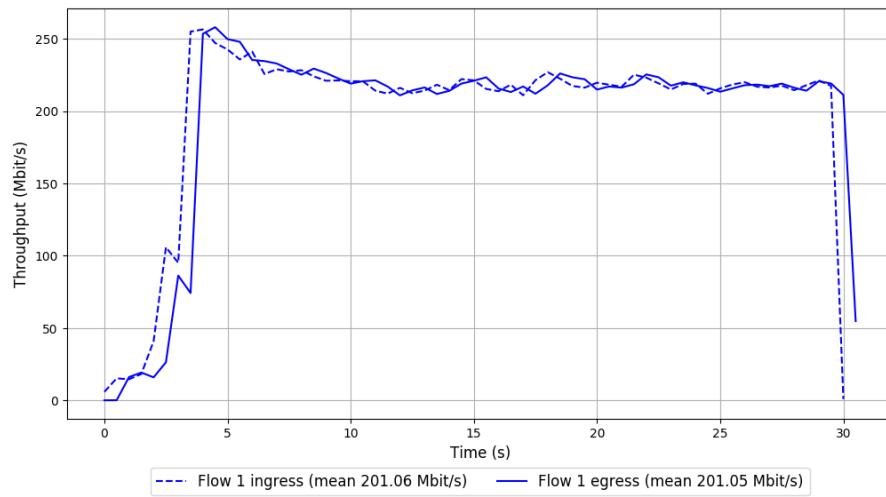


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-24 14:02:38
End at: 2019-01-24 14:03:08
Local clock offset: 25.28 ms
Remote clock offset: 31.346 ms

# Below is generated by plot.py at 2019-01-24 17:36:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.05 Mbit/s
95th percentile per-packet one-way delay: 109.834 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.05 Mbit/s
95th percentile per-packet one-way delay: 109.834 ms
Loss rate: 0.00%
```

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

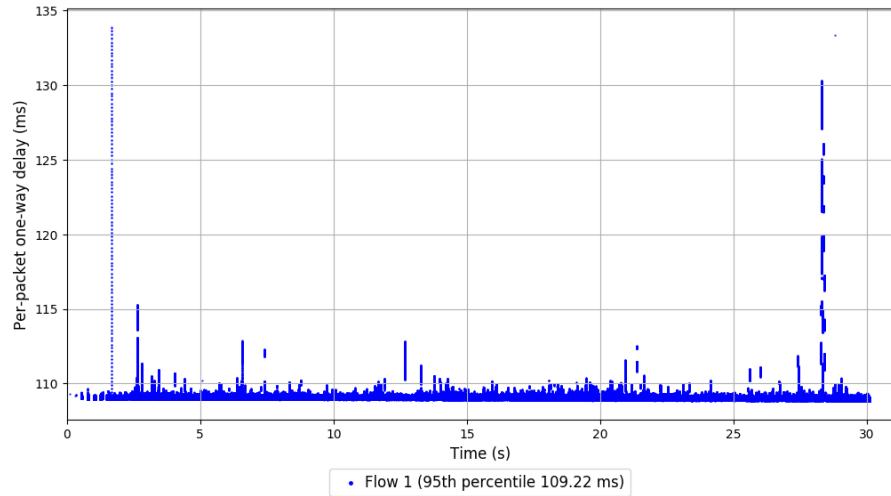
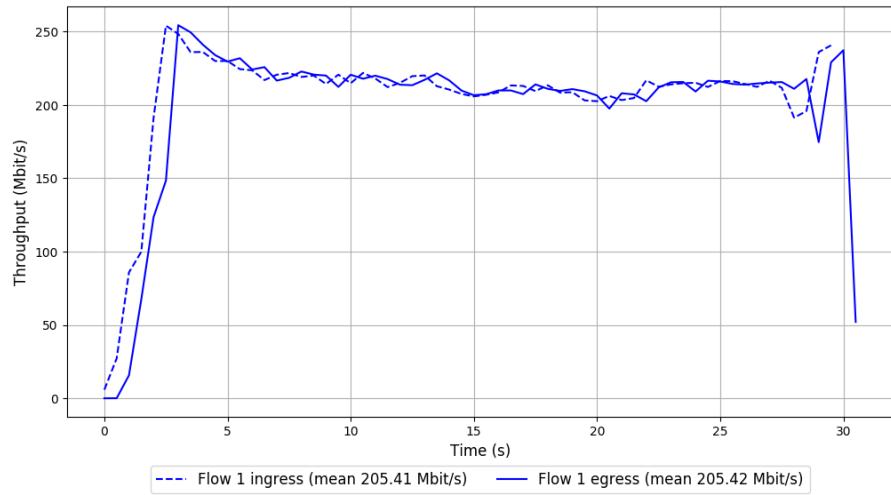


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-24 14:35:06
End at: 2019-01-24 14:35:36
Local clock offset: 7.251 ms
Remote clock offset: 15.623 ms

# Below is generated by plot.py at 2019-01-24 17:36:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.42 Mbit/s
95th percentile per-packet one-way delay: 109.221 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.42 Mbit/s
95th percentile per-packet one-way delay: 109.221 ms
Loss rate: 0.00%
```

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

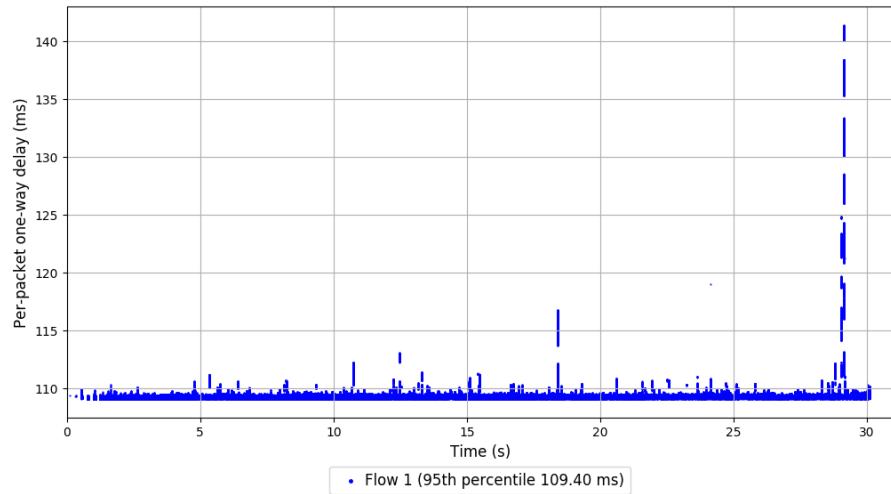
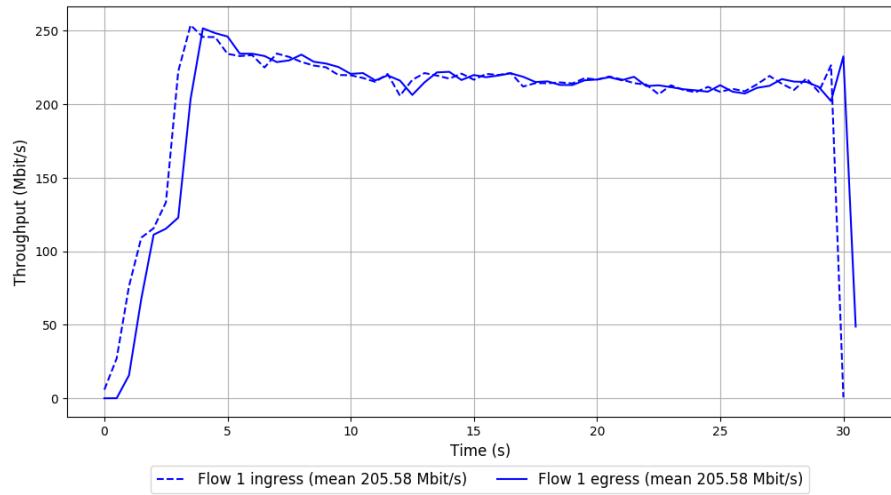


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-24 15:07:38
End at: 2019-01-24 15:08:08
Local clock offset: 3.095 ms
Remote clock offset: 3.895 ms

# Below is generated by plot.py at 2019-01-24 17:36:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.58 Mbit/s
95th percentile per-packet one-way delay: 109.404 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.58 Mbit/s
95th percentile per-packet one-way delay: 109.404 ms
Loss rate: 0.00%
```

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

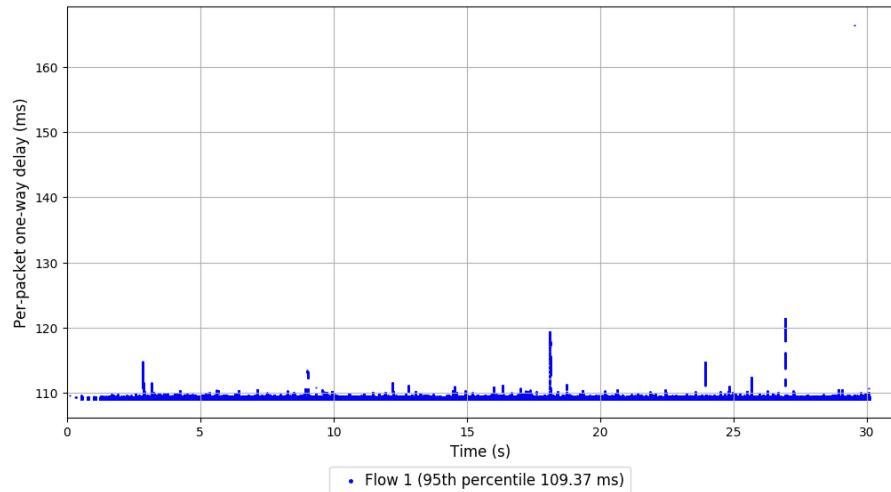
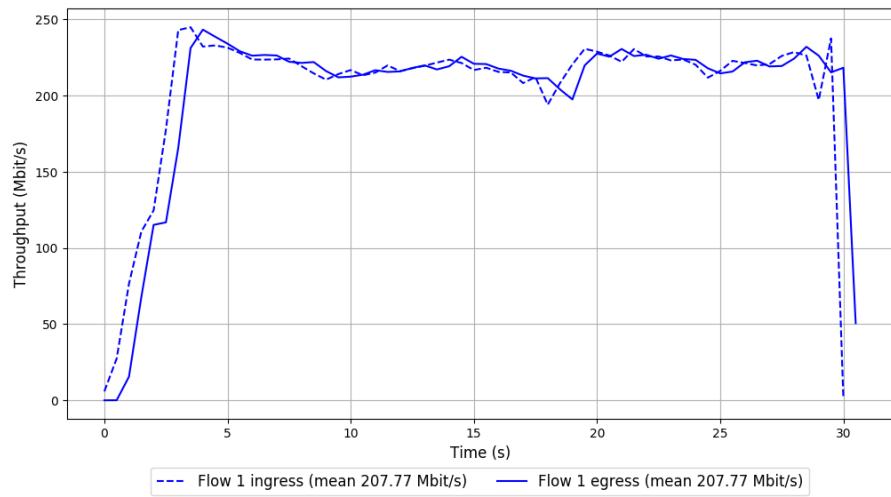


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-24 15:40:09
End at: 2019-01-24 15:40:39
Local clock offset: 1.271 ms
Remote clock offset: 1.137 ms

# Below is generated by plot.py at 2019-01-24 17:36:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.77 Mbit/s
95th percentile per-packet one-way delay: 109.369 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 207.77 Mbit/s
95th percentile per-packet one-way delay: 109.369 ms
Loss rate: 0.00%
```

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

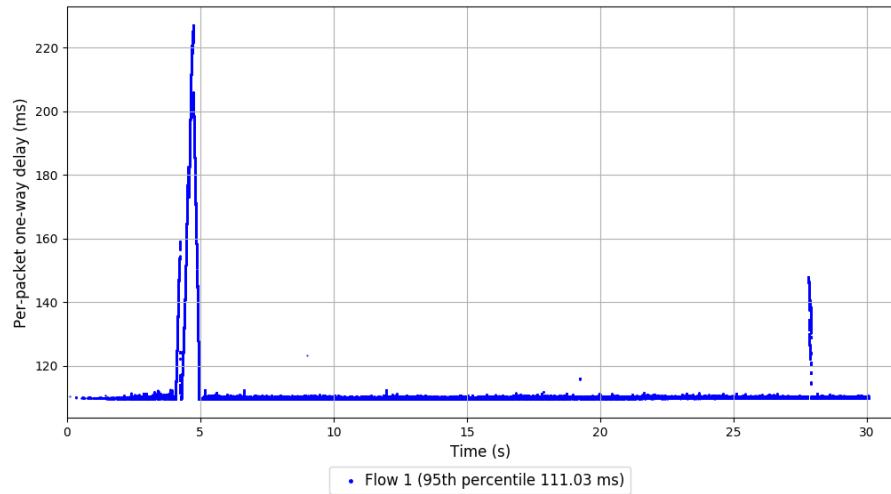
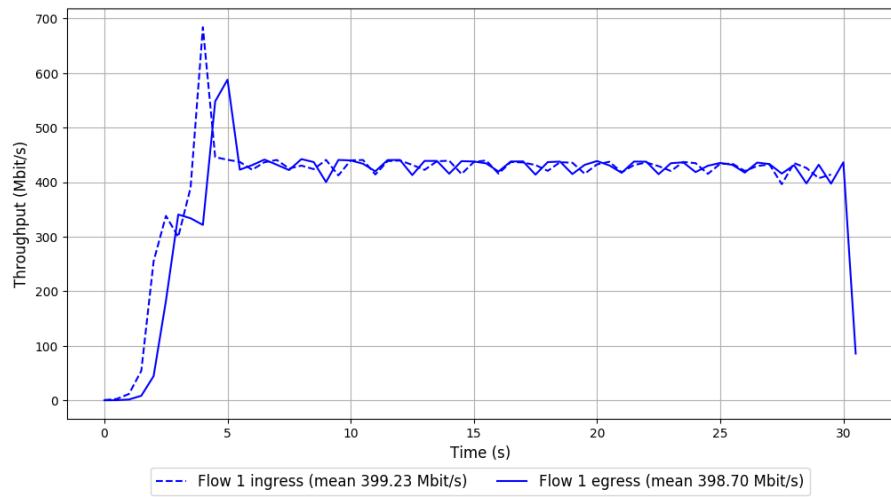


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-24 13:03:07
End at: 2019-01-24 13:03:37
Local clock offset: 3.29 ms
Remote clock offset: 5.652 ms

# Below is generated by plot.py at 2019-01-24 17:37:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 398.70 Mbit/s
95th percentile per-packet one-way delay: 111.026 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 398.70 Mbit/s
95th percentile per-packet one-way delay: 111.026 ms
Loss rate: 0.13%
```

Run 1: Report of TCP Vegas — Data Link

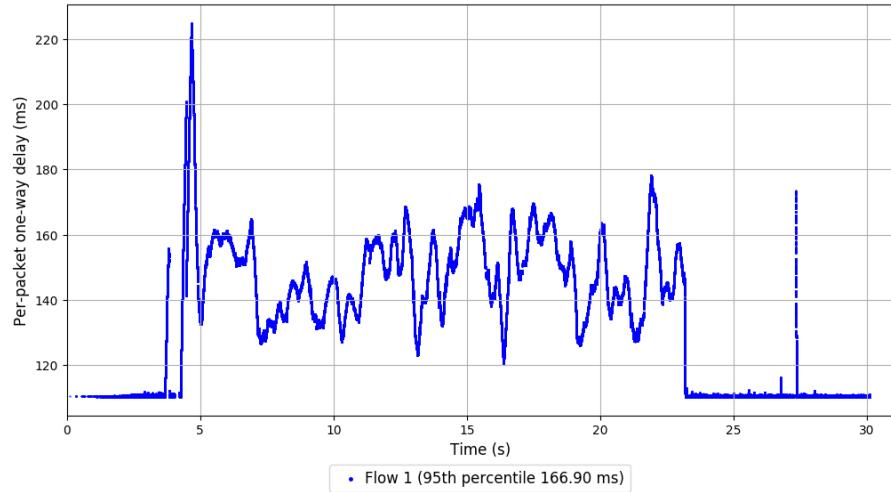
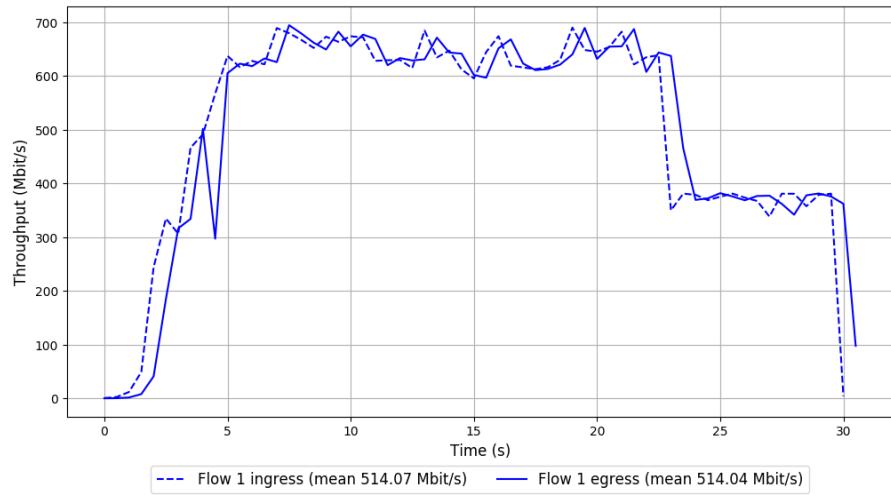


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-24 13:35:05
End at: 2019-01-24 13:35:35
Local clock offset: 17.568 ms
Remote clock offset: 21.611 ms

# Below is generated by plot.py at 2019-01-24 17:42:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 514.04 Mbit/s
95th percentile per-packet one-way delay: 166.900 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 514.04 Mbit/s
95th percentile per-packet one-way delay: 166.900 ms
Loss rate: 0.01%
```

Run 2: Report of TCP Vegas — Data Link

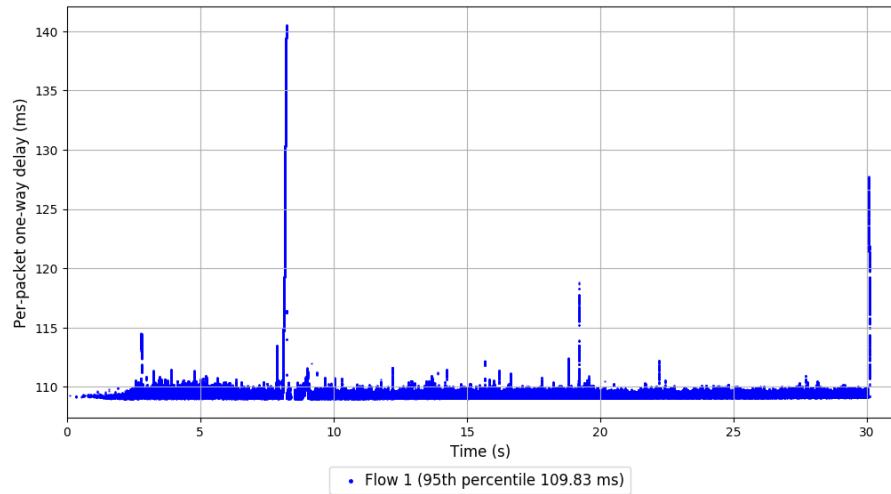
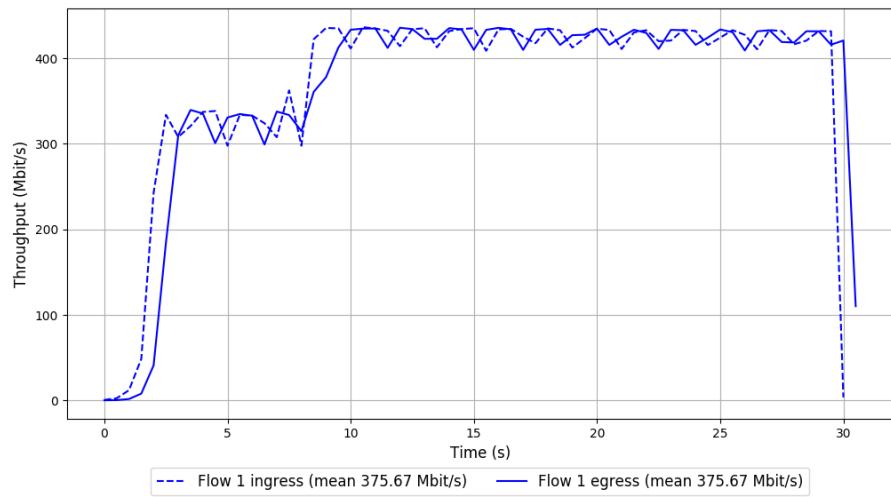


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-24 14:07:40
End at: 2019-01-24 14:08:10
Local clock offset: 30.708 ms
Remote clock offset: 35.547 ms

# Below is generated by plot.py at 2019-01-24 17:42:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 375.67 Mbit/s
95th percentile per-packet one-way delay: 109.833 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 375.67 Mbit/s
95th percentile per-packet one-way delay: 109.833 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

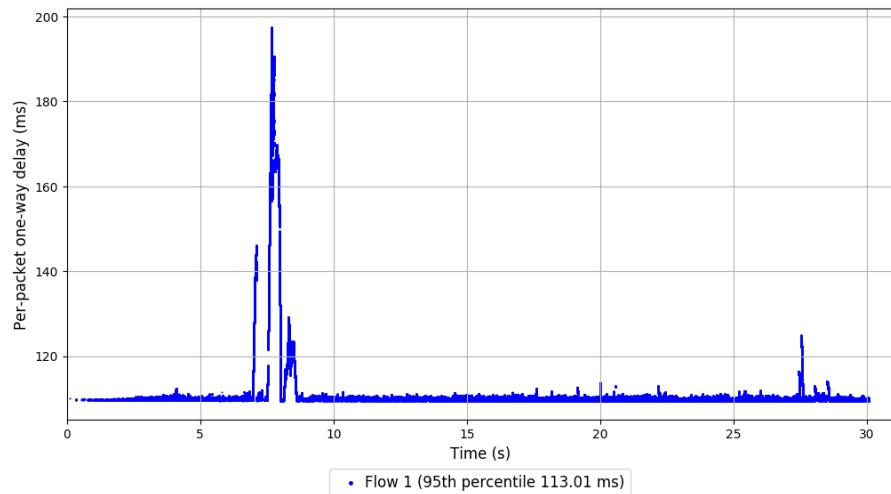
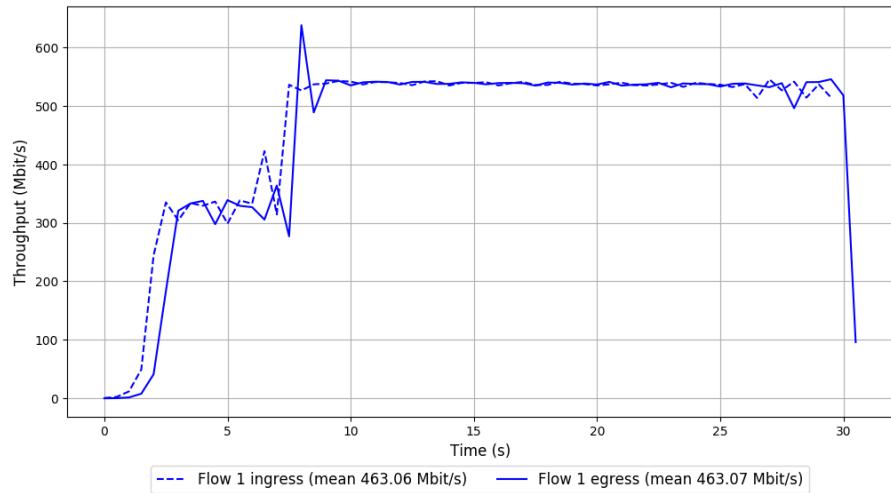


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-24 14:40:10
End at: 2019-01-24 14:40:40
Local clock offset: 7.428 ms
Remote clock offset: 17.59 ms

# Below is generated by plot.py at 2019-01-24 17:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 463.07 Mbit/s
95th percentile per-packet one-way delay: 113.014 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 463.07 Mbit/s
95th percentile per-packet one-way delay: 113.014 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

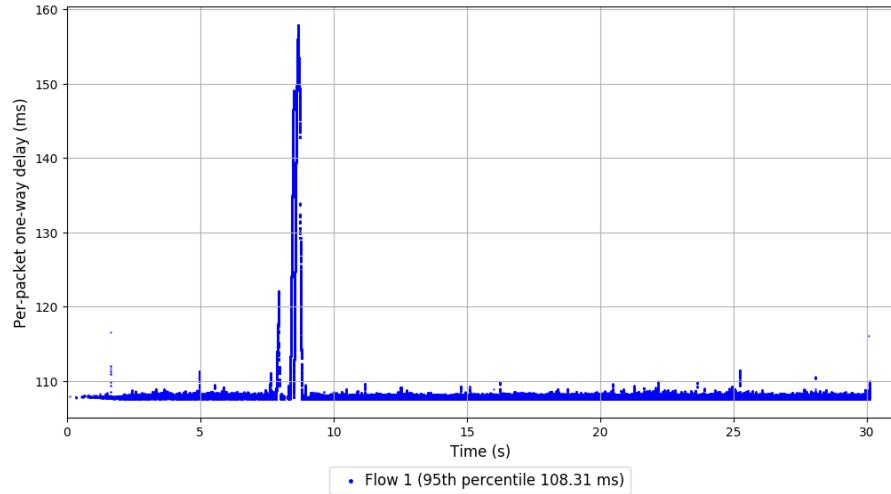
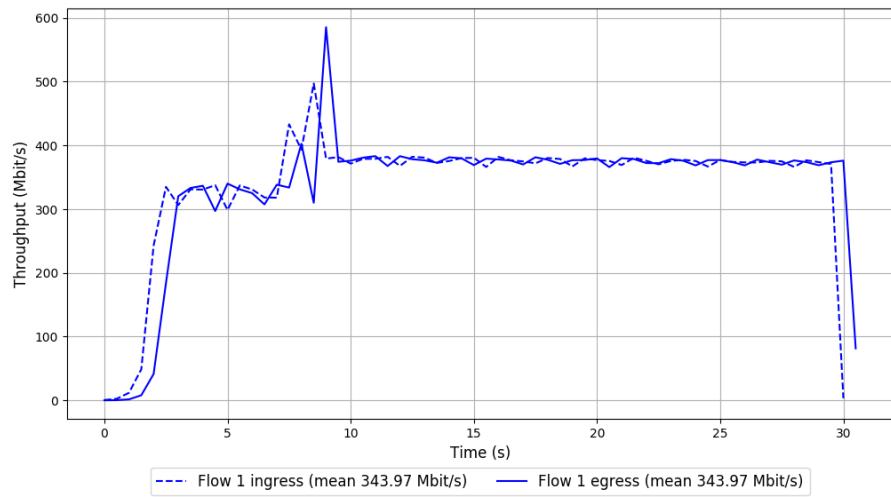


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-24 15:12:39
End at: 2019-01-24 15:13:09
Local clock offset: 4.598 ms
Remote clock offset: 3.745 ms

# Below is generated by plot.py at 2019-01-24 17:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.97 Mbit/s
95th percentile per-packet one-way delay: 108.308 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 343.97 Mbit/s
95th percentile per-packet one-way delay: 108.308 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

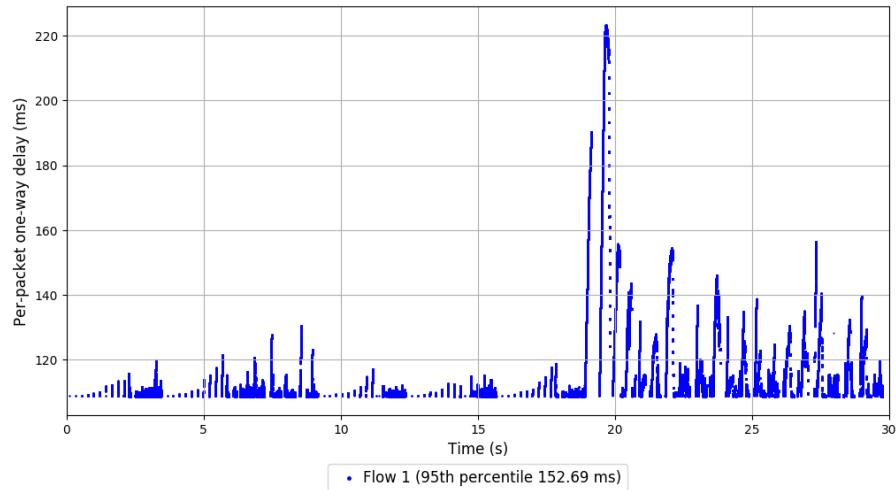
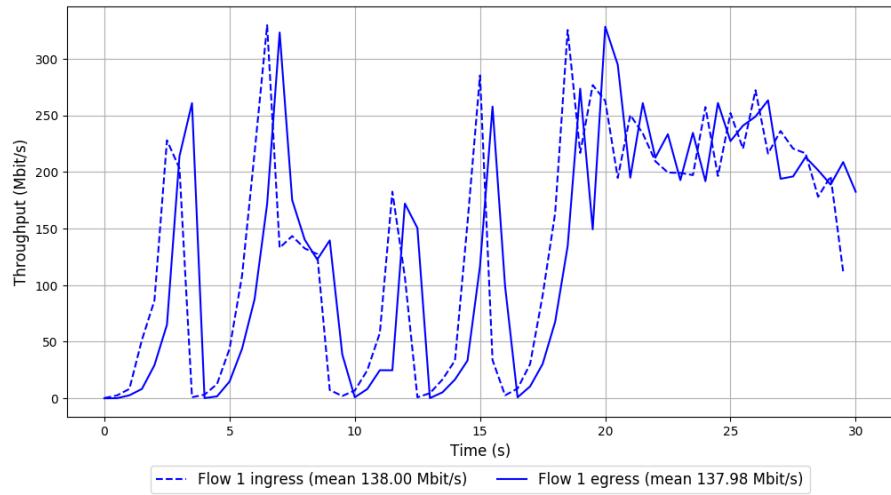


Run 1: Statistics of Verus

```
Start at: 2019-01-24 13:16:46
End at: 2019-01-24 13:17:16
Local clock offset: 13.452 ms
Remote clock offset: 14.935 ms

# Below is generated by plot.py at 2019-01-24 17:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 137.98 Mbit/s
95th percentile per-packet one-way delay: 152.691 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 137.98 Mbit/s
95th percentile per-packet one-way delay: 152.691 ms
Loss rate: 0.00%
```

Run 1: Report of Verus — Data Link

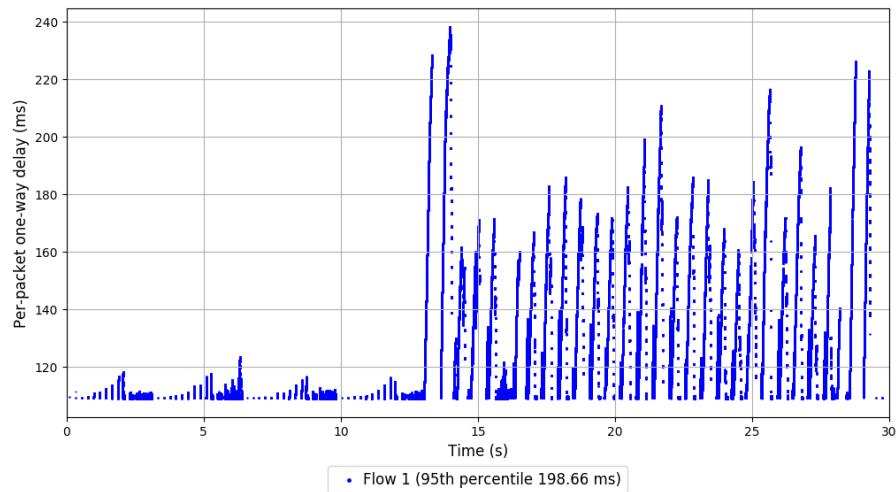
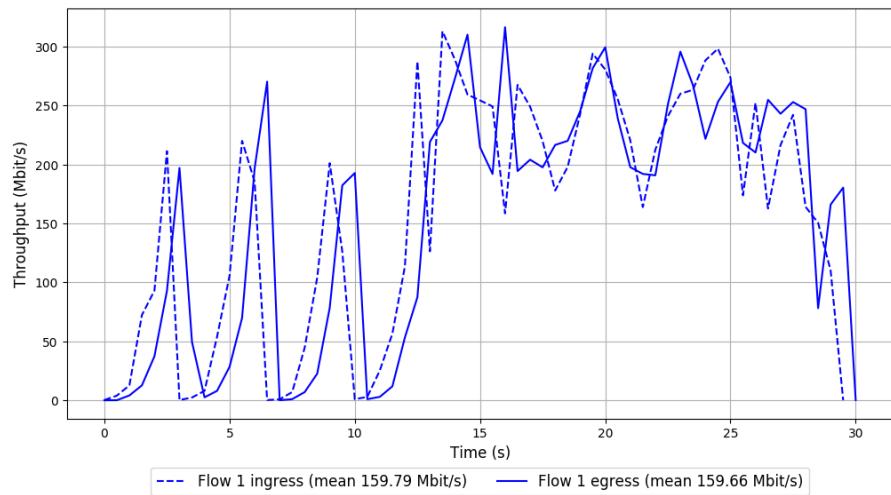


Run 2: Statistics of Verus

```
Start at: 2019-01-24 13:49:10
End at: 2019-01-24 13:49:40
Local clock offset: 17.823 ms
Remote clock offset: 20.373 ms

# Below is generated by plot.py at 2019-01-24 17:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.66 Mbit/s
95th percentile per-packet one-way delay: 198.657 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 159.66 Mbit/s
95th percentile per-packet one-way delay: 198.657 ms
Loss rate: 0.08%
```

Run 2: Report of Verus — Data Link

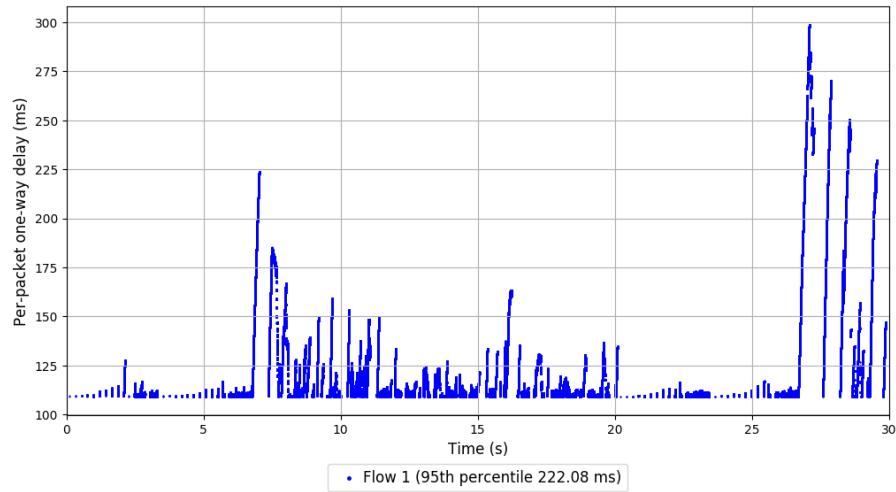
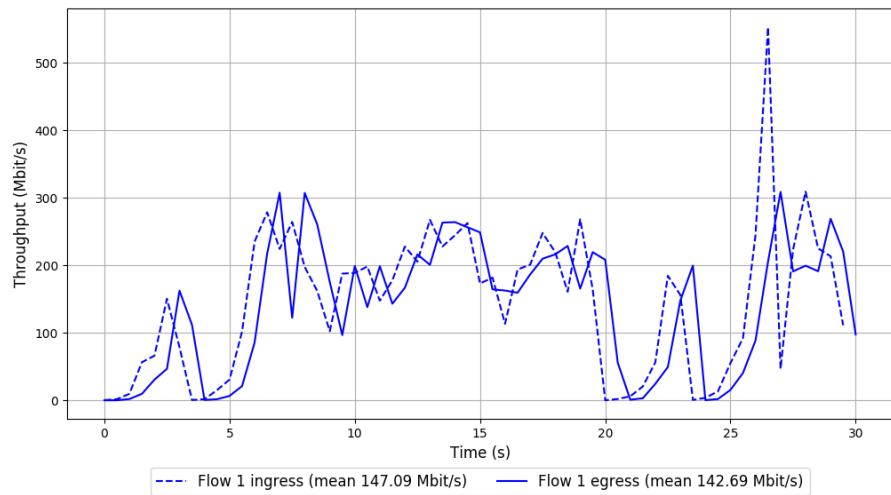


Run 3: Statistics of Verus

```
Start at: 2019-01-24 14:21:37
End at: 2019-01-24 14:22:07
Local clock offset: 9.015 ms
Remote clock offset: 14.166 ms

# Below is generated by plot.py at 2019-01-24 17:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 142.69 Mbit/s
95th percentile per-packet one-way delay: 222.083 ms
Loss rate: 2.99%
-- Flow 1:
Average throughput: 142.69 Mbit/s
95th percentile per-packet one-way delay: 222.083 ms
Loss rate: 2.99%
```

Run 3: Report of Verus — Data Link

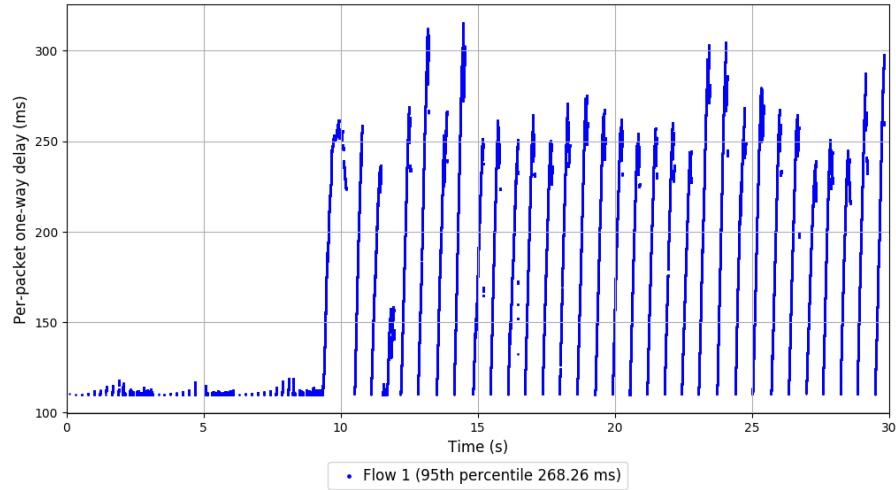
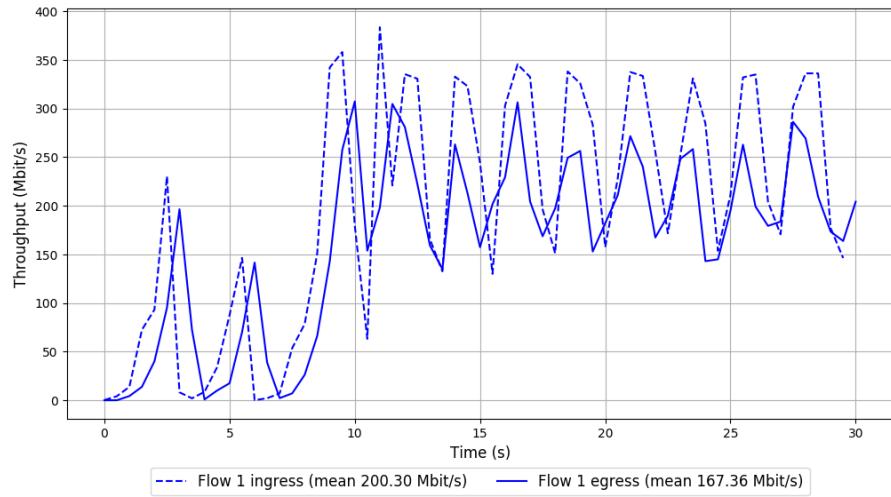


Run 4: Statistics of Verus

```
Start at: 2019-01-24 14:54:15
End at: 2019-01-24 14:54:45
Local clock offset: 2.538 ms
Remote clock offset: 5.637 ms

# Below is generated by plot.py at 2019-01-24 17:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 167.36 Mbit/s
95th percentile per-packet one-way delay: 268.257 ms
Loss rate: 16.17%
-- Flow 1:
Average throughput: 167.36 Mbit/s
95th percentile per-packet one-way delay: 268.257 ms
Loss rate: 16.17%
```

Run 4: Report of Verus — Data Link

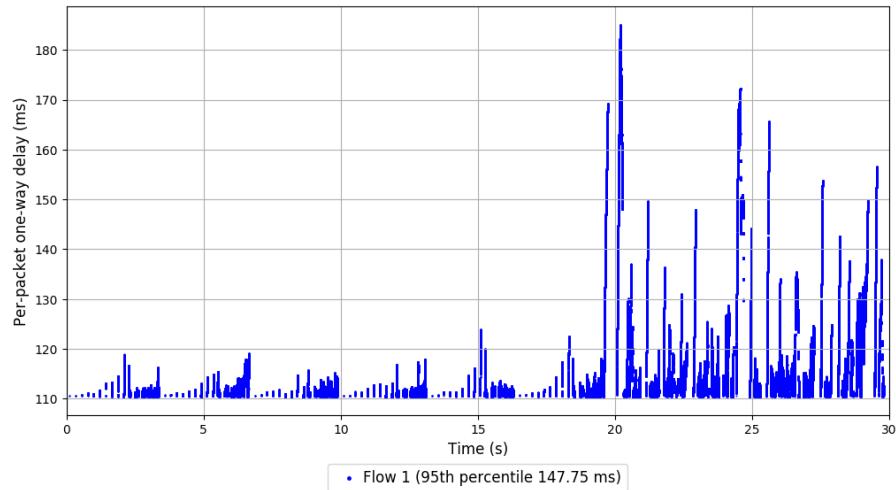
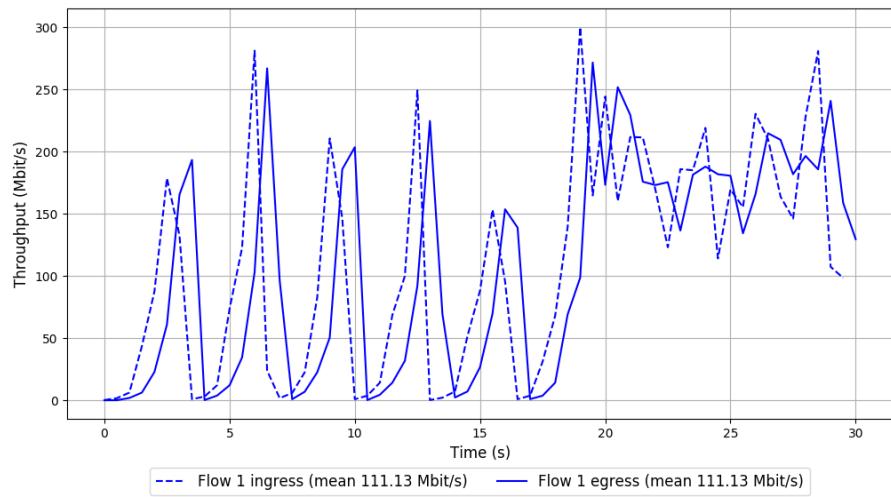


Run 5: Statistics of Verus

```
Start at: 2019-01-24 15:26:46
End at: 2019-01-24 15:27:16
Local clock offset: 0.303 ms
Remote clock offset: 1.672 ms

# Below is generated by plot.py at 2019-01-24 17:44:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 111.13 Mbit/s
95th percentile per-packet one-way delay: 147.749 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 111.13 Mbit/s
95th percentile per-packet one-way delay: 147.749 ms
Loss rate: 0.00%
```

Run 5: Report of Verus — Data Link

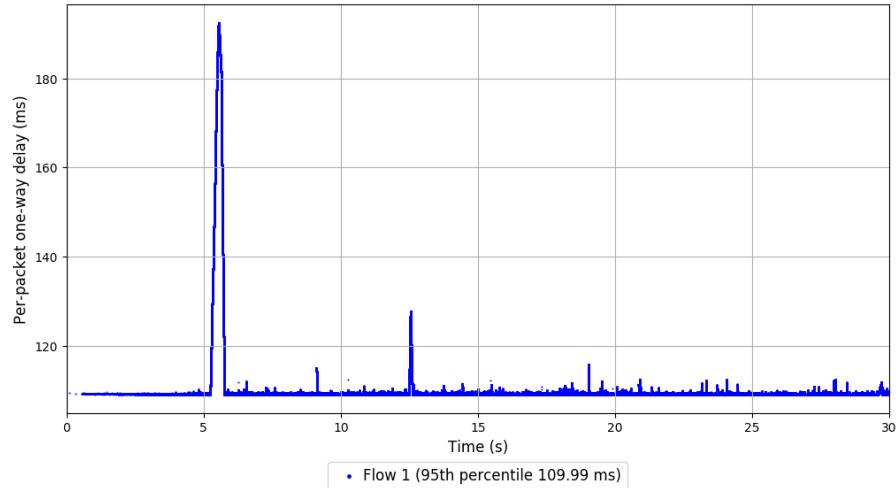
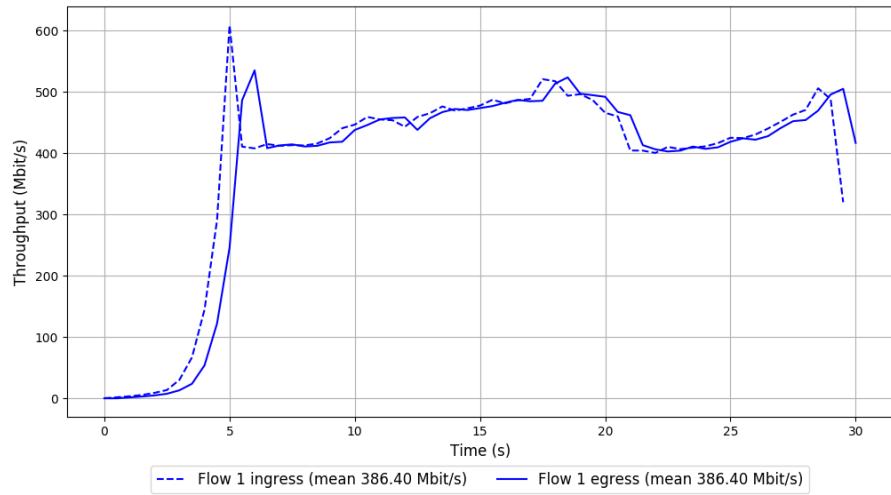


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-24 13:25:05
End at: 2019-01-24 13:25:35
Local clock offset: 12.438 ms
Remote clock offset: 14.292 ms

# Below is generated by plot.py at 2019-01-24 17:47:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 386.40 Mbit/s
95th percentile per-packet one-way delay: 109.991 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 386.40 Mbit/s
95th percentile per-packet one-way delay: 109.991 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

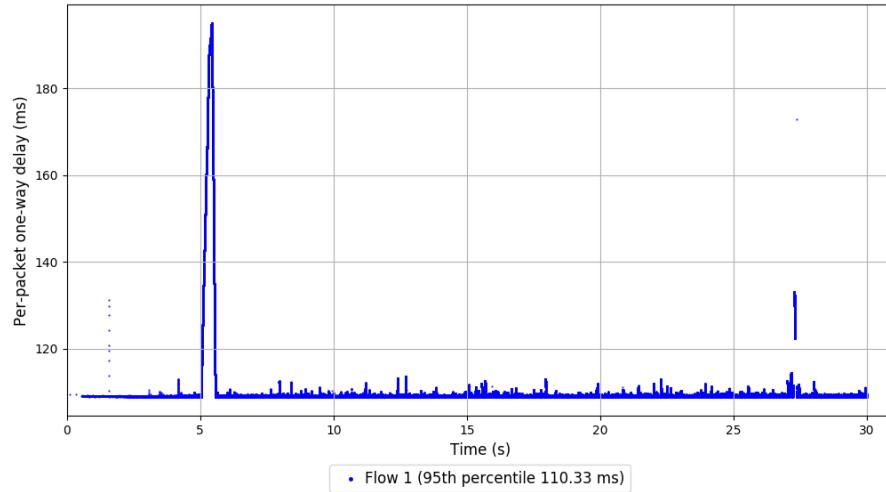
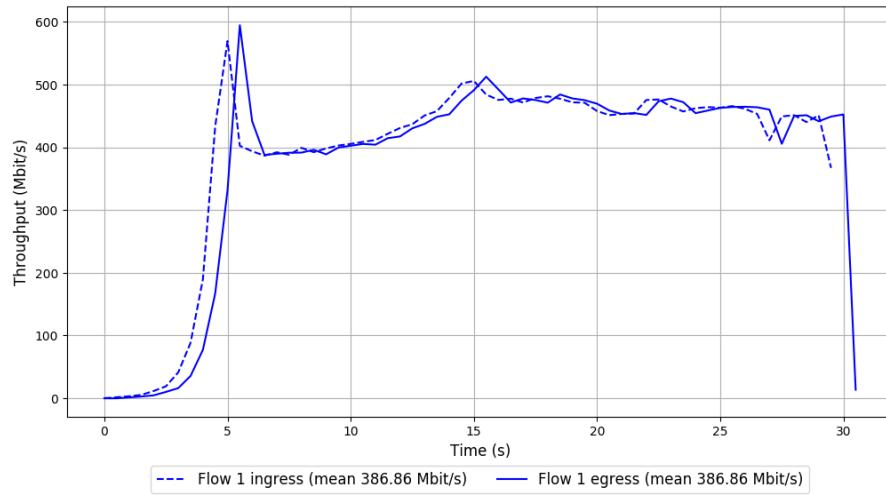


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-24 13:57:35
End at: 2019-01-24 13:58:05
Local clock offset: 22.656 ms
Remote clock offset: 26.75 ms

# Below is generated by plot.py at 2019-01-24 17:47:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 386.86 Mbit/s
95th percentile per-packet one-way delay: 110.331 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 386.86 Mbit/s
95th percentile per-packet one-way delay: 110.331 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

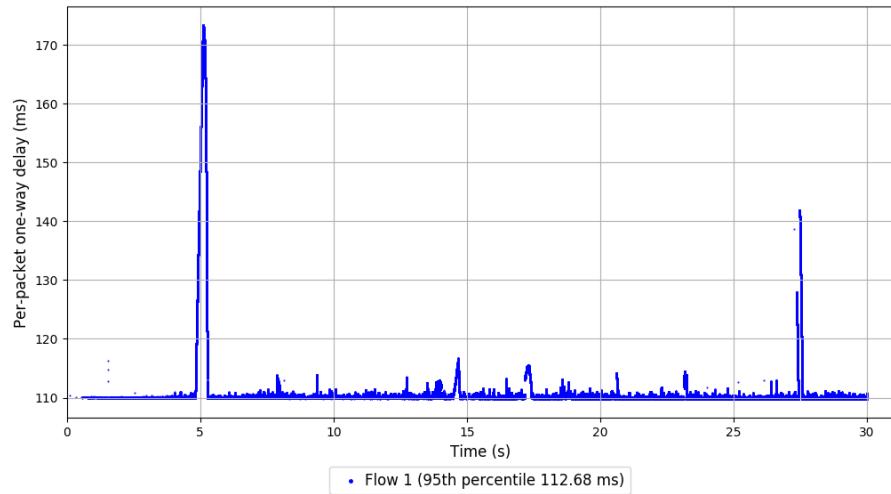
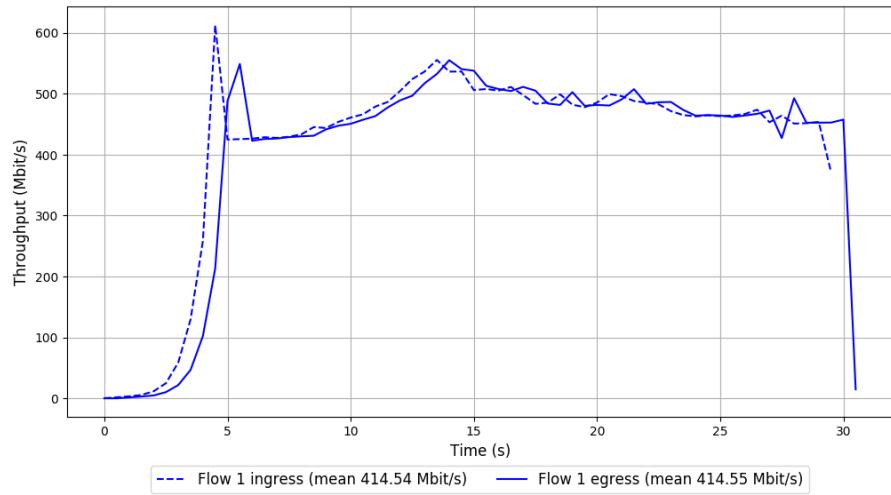


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-24 14:30:00
End at: 2019-01-24 14:30:30
Local clock offset: 6.347 ms
Remote clock offset: 14.152 ms

# Below is generated by plot.py at 2019-01-24 17:47:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 414.55 Mbit/s
95th percentile per-packet one-way delay: 112.678 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 414.55 Mbit/s
95th percentile per-packet one-way delay: 112.678 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

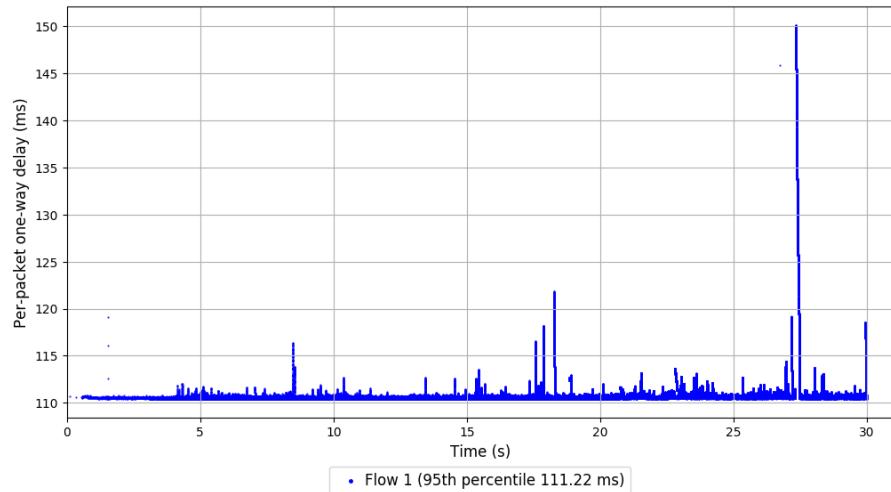
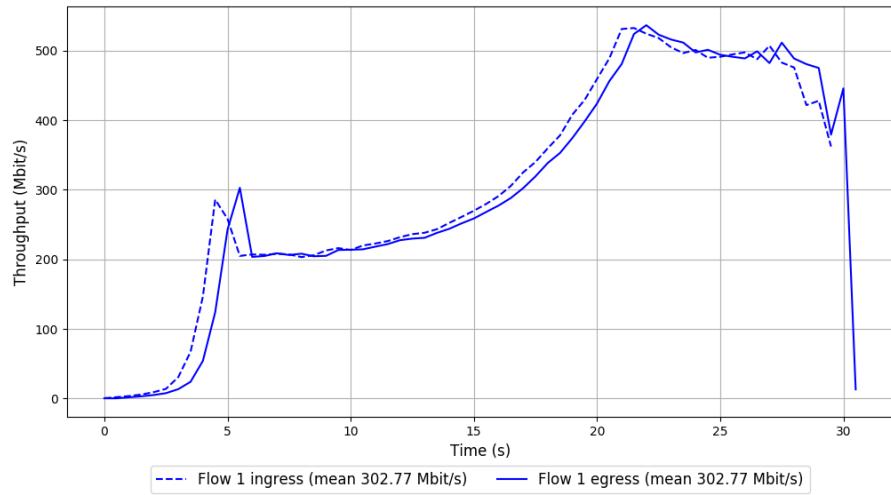


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-24 15:02:39
End at: 2019-01-24 15:03:09
Local clock offset: 1.839 ms
Remote clock offset: 4.391 ms

# Below is generated by plot.py at 2019-01-24 17:47:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 302.77 Mbit/s
95th percentile per-packet one-way delay: 111.220 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 302.77 Mbit/s
95th percentile per-packet one-way delay: 111.220 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

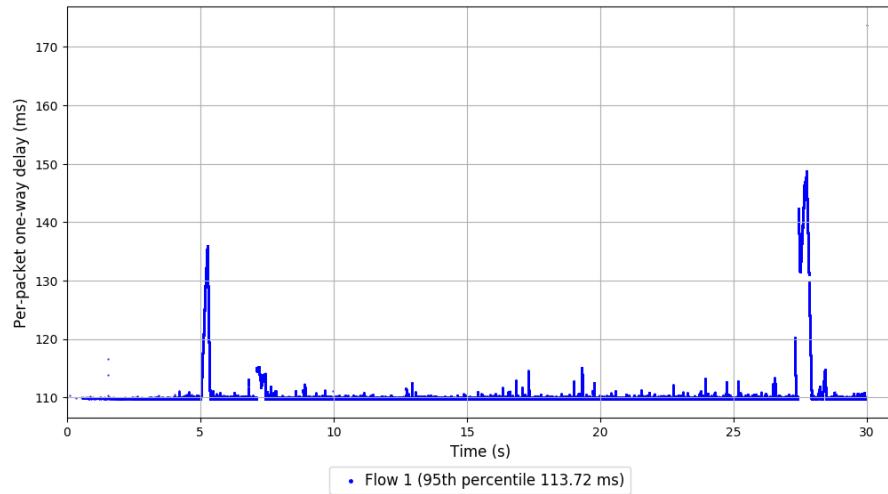
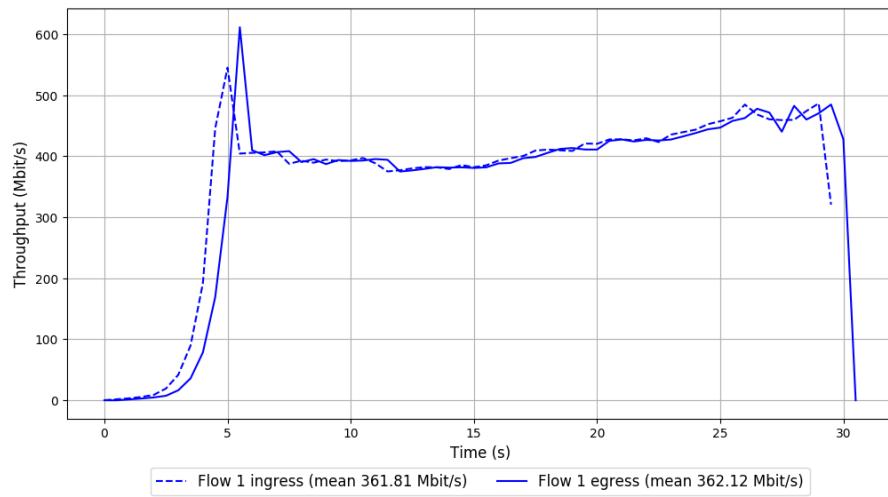


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-24 15:35:07
End at: 2019-01-24 15:35:37
Local clock offset: -0.145 ms
Remote clock offset: 1.405 ms

# Below is generated by plot.py at 2019-01-24 17:47:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 362.12 Mbit/s
95th percentile per-packet one-way delay: 113.724 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 362.12 Mbit/s
95th percentile per-packet one-way delay: 113.724 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

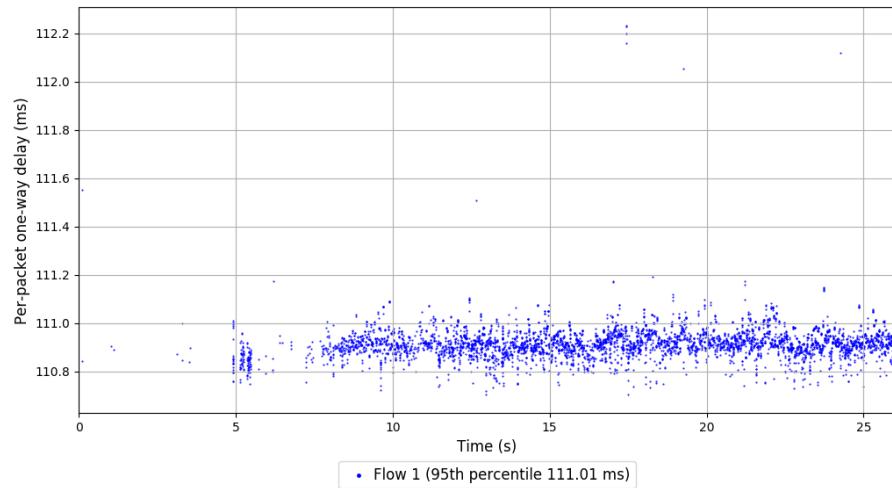
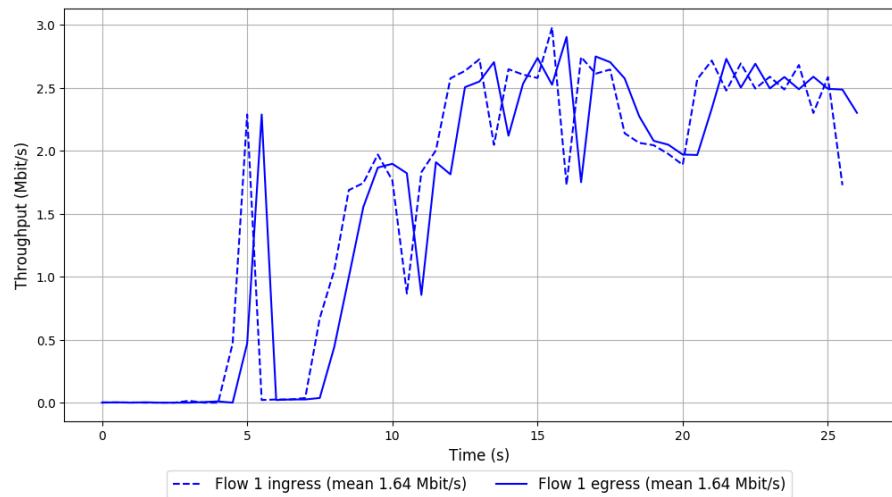


Run 1: Statistics of WebRTC media

```
Start at: 2019-01-24 13:19:50
End at: 2019-01-24 13:20:20
Local clock offset: 9.081 ms
Remote clock offset: 12.213 ms

# Below is generated by plot.py at 2019-01-24 17:47:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 111.006 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 111.006 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

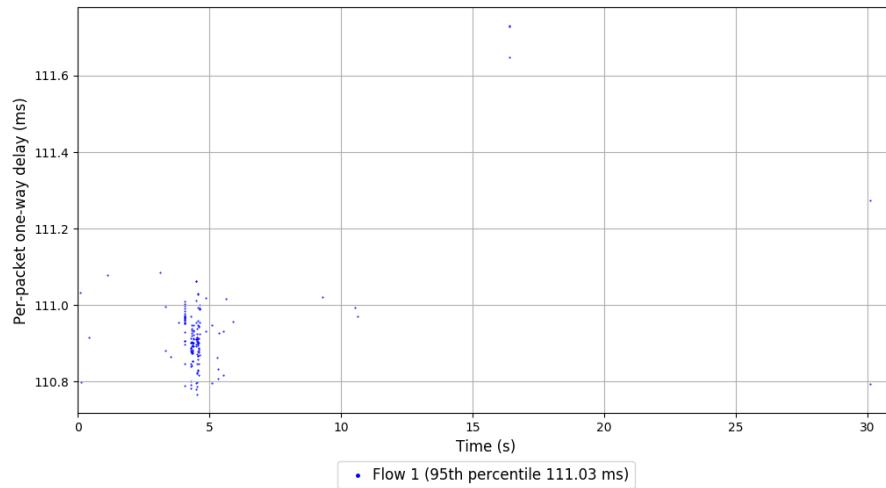
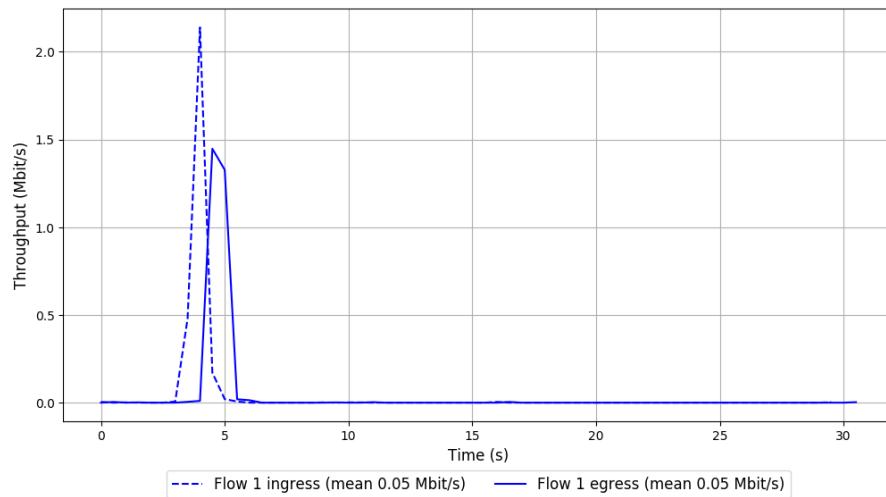


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-24 13:52:16
End at: 2019-01-24 13:52:46
Local clock offset: 17.533 ms
Remote clock offset: 22.387 ms

# Below is generated by plot.py at 2019-01-24 17:47:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 111.032 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 111.032 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

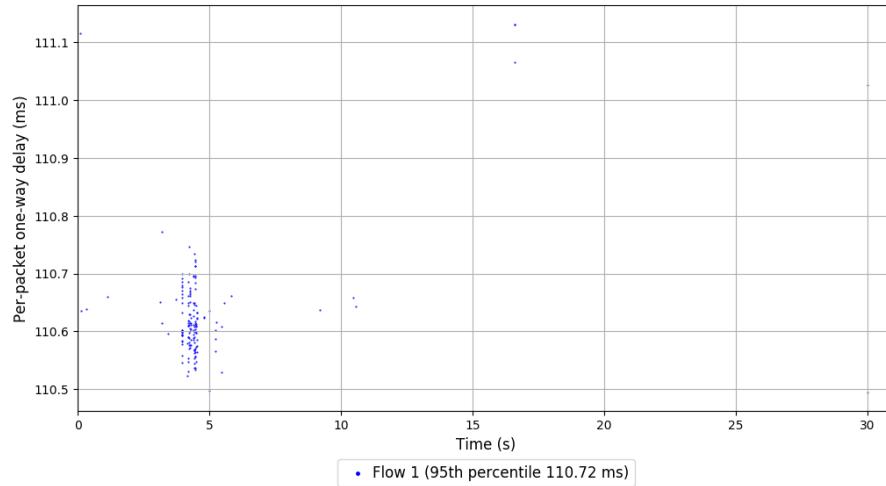
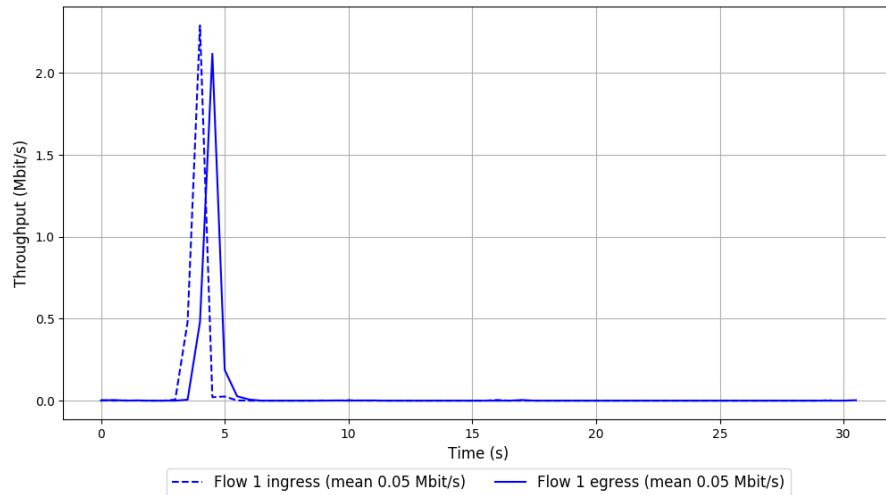


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-24 14:24:40
End at: 2019-01-24 14:25:10
Local clock offset: 6.636 ms
Remote clock offset: 13.681 ms

# Below is generated by plot.py at 2019-01-24 17:47:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.723 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.723 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

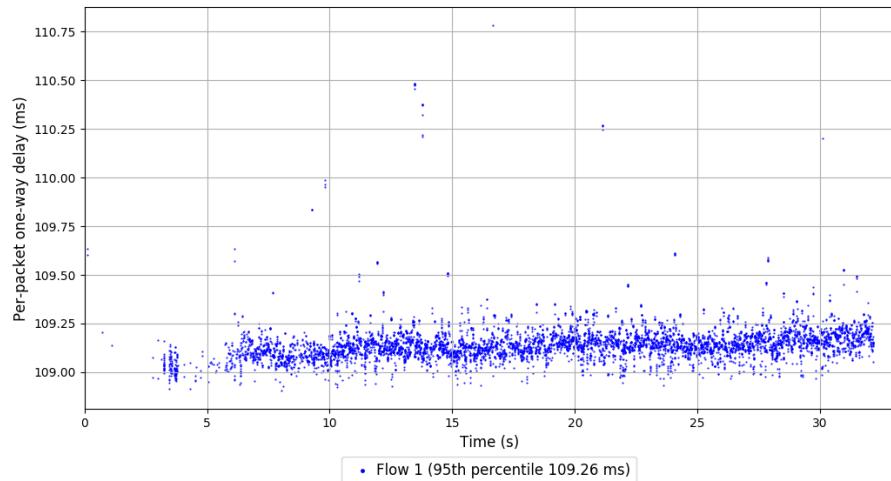
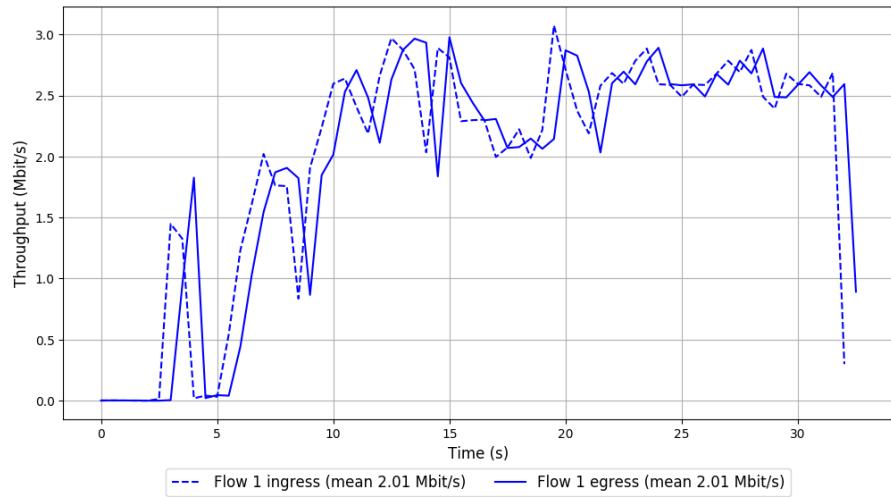


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-24 14:57:20
End at: 2019-01-24 14:57:50
Local clock offset: 2.867 ms
Remote clock offset: 4.347 ms

# Below is generated by plot.py at 2019-01-24 17:47:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 109.264 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 109.264 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-24 15:29:48
End at: 2019-01-24 15:30:18
Local clock offset: 0.449 ms
Remote clock offset: 1.542 ms

# Below is generated by plot.py at 2019-01-24 17:47:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.522 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

