

Pantheon Report

Generated at 2019-06-27 05:19:15 (UTC).
Data path: GCE Iowa on `ens4` (*remote*) → GCE Sydney on `ens4` (*local*).
Repeated the test of 22 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:

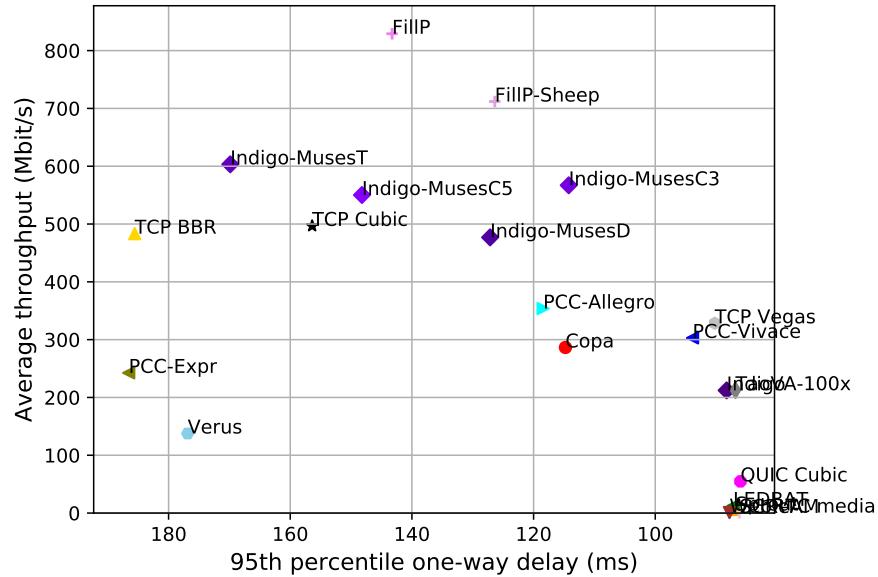
```
Linux 4.15.0-1032-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

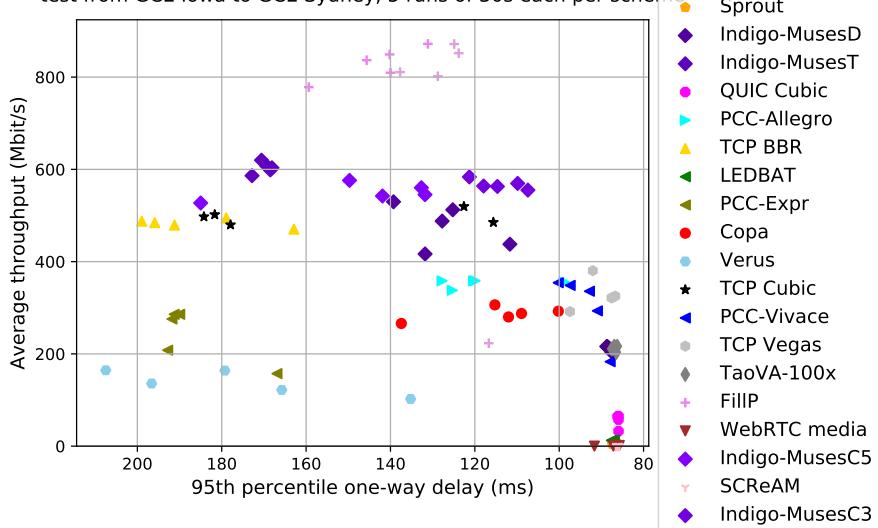
```
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 11c9498ecb1596b02ccd896791a02d03172af7ed
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 Iowa to GCE Sydney, 5 runs of 30s each per scheme
(mean of all runs by scheme)



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



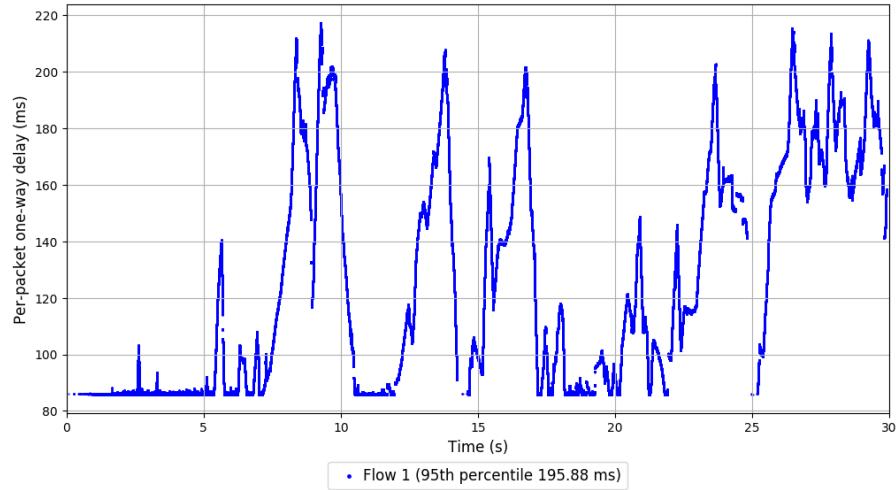
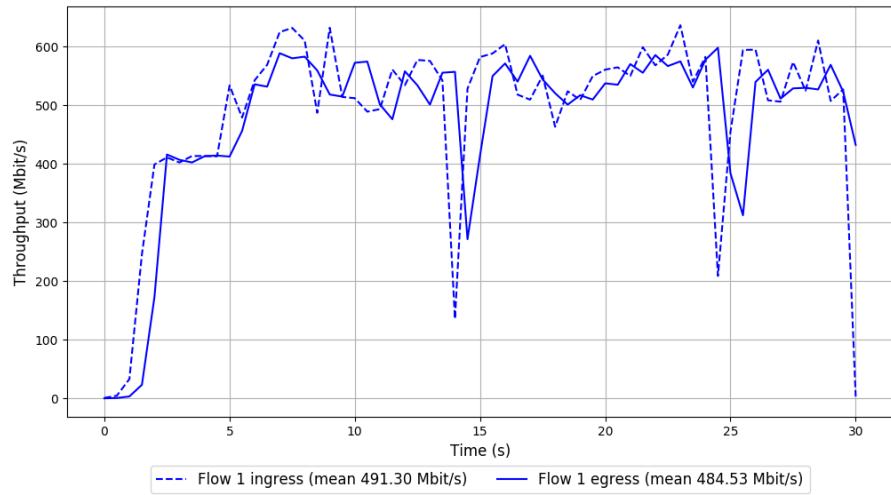
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	483.34	185.57	1.45
Copa	5	286.49	114.77	0.60
TCP Cubic	5	496.76	156.40	0.63
FillP	5	829.14	143.26	1.64
FillP-Sheep	5	711.90	126.38	1.26
Indigo	4	212.22	88.27	0.69
Indigo-MusesC3	5	567.01	114.23	0.72
Indigo-MusesC5	5	550.22	148.21	0.93
Indigo-MusesD	5	476.89	127.15	0.74
Indigo-MusesT	5	603.29	169.86	0.87
LEDBAT	5	12.42	87.21	1.16
Muses_DecisionTree	0	N/A	N/A	N/A
PCC-Allegro	5	353.76	118.43	1.05
PCC-Expr	5	242.51	186.56	2.22
QUIC Cubic	4	54.83	86.00	0.88
SCReAM	5	0.22	86.16	0.56
Sprout	5	4.42	86.83	0.70
TaoVA-100x	5	212.55	86.81	0.71
TCP Vegas	5	328.27	90.21	0.56
Verus	5	137.62	176.87	0.65
PCC-Vivace	5	302.99	93.87	0.75
WebRTC media	4	0.91	87.80	0.42

Run 1: Statistics of TCP BBR

```
Start at: 2019-06-27 01:19:42
End at: 2019-06-27 01:20:12
Local clock offset: 26.306 ms
Remote clock offset: 24.606 ms

# Below is generated by plot.py at 2019-06-27 03:48:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 484.53 Mbit/s
95th percentile per-packet one-way delay: 195.878 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 484.53 Mbit/s
95th percentile per-packet one-way delay: 195.878 ms
Loss rate: 1.95%
```

Run 1: Report of TCP BBR — Data Link

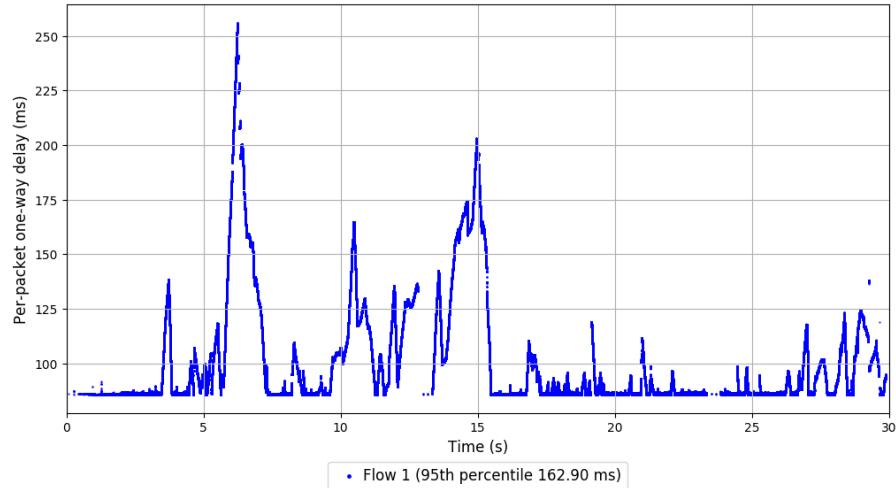
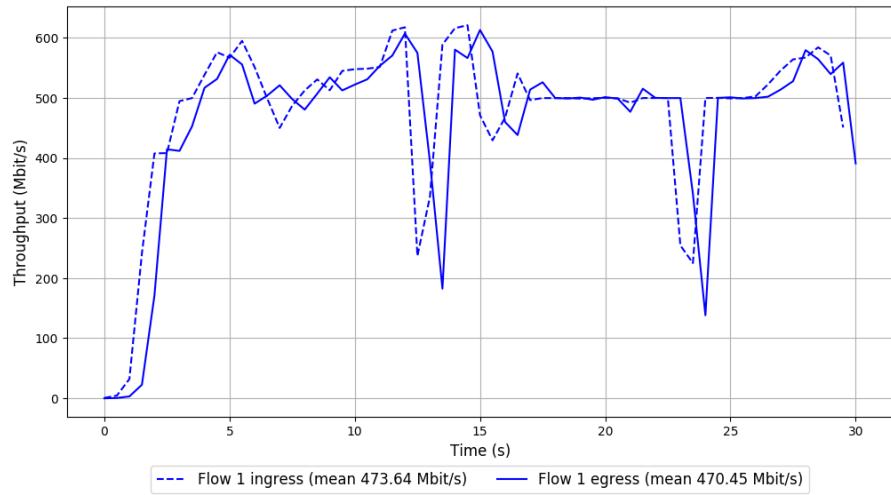


Run 2: Statistics of TCP BBR

```
Start at: 2019-06-27 01:51:31
End at: 2019-06-27 01:52:01
Local clock offset: 39.605 ms
Remote clock offset: 36.831 ms

# Below is generated by plot.py at 2019-06-27 03:48:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 470.45 Mbit/s
95th percentile per-packet one-way delay: 162.897 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 470.45 Mbit/s
95th percentile per-packet one-way delay: 162.897 ms
Loss rate: 1.25%
```

Run 2: Report of TCP BBR — Data Link

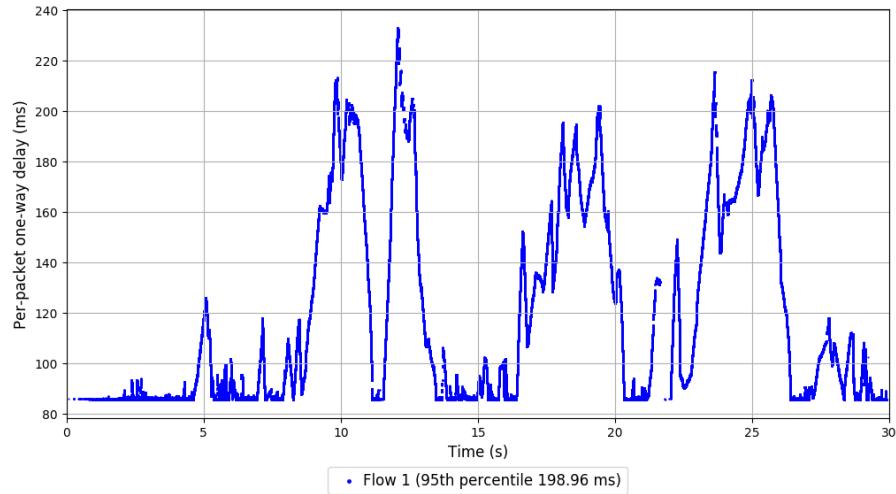
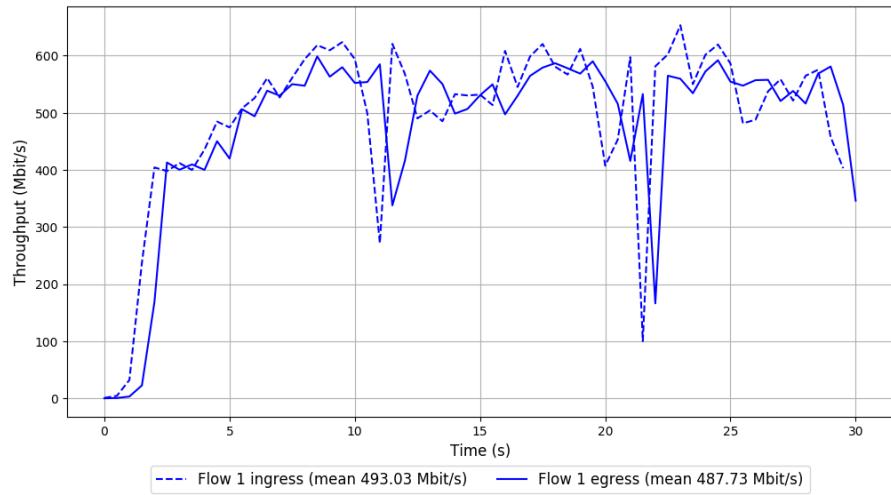


Run 3: Statistics of TCP BBR

```
Start at: 2019-06-27 02:23:13
End at: 2019-06-27 02:23:43
Local clock offset: 19.307 ms
Remote clock offset: 18.035 ms

# Below is generated by plot.py at 2019-06-27 03:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 487.73 Mbit/s
95th percentile per-packet one-way delay: 198.962 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 487.73 Mbit/s
95th percentile per-packet one-way delay: 198.962 ms
Loss rate: 1.64%
```

Run 3: Report of TCP BBR — Data Link

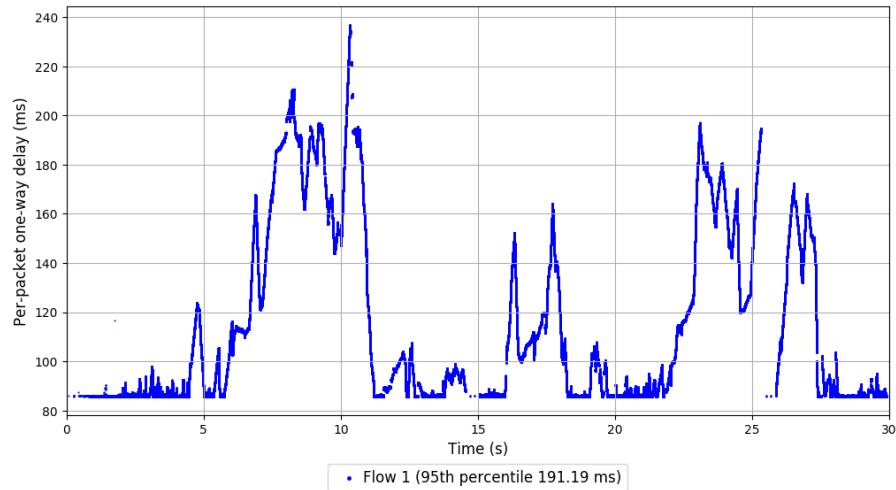
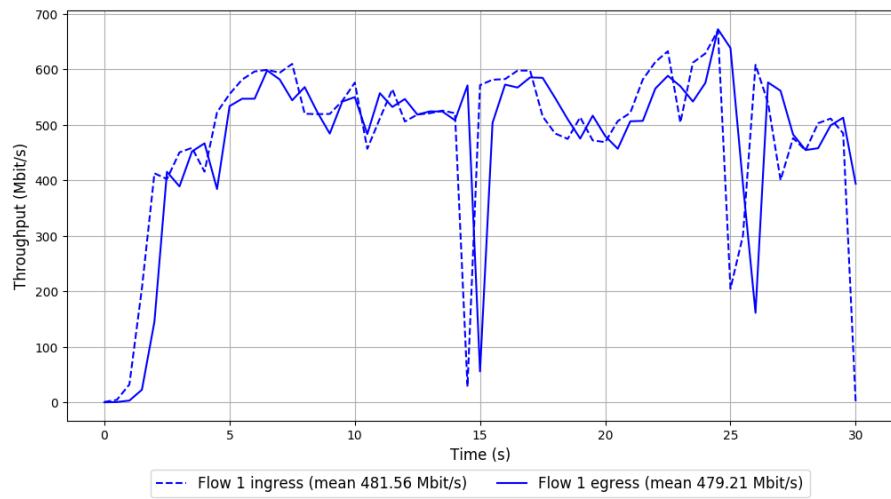


Run 4: Statistics of TCP BBR

```
Start at: 2019-06-27 02:55:29
End at: 2019-06-27 02:55:59
Local clock offset: 4.625 ms
Remote clock offset: 4.554 ms

# Below is generated by plot.py at 2019-06-27 03:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 479.21 Mbit/s
95th percentile per-packet one-way delay: 191.191 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 479.21 Mbit/s
95th percentile per-packet one-way delay: 191.191 ms
Loss rate: 1.06%
```

Run 4: Report of TCP BBR — Data Link

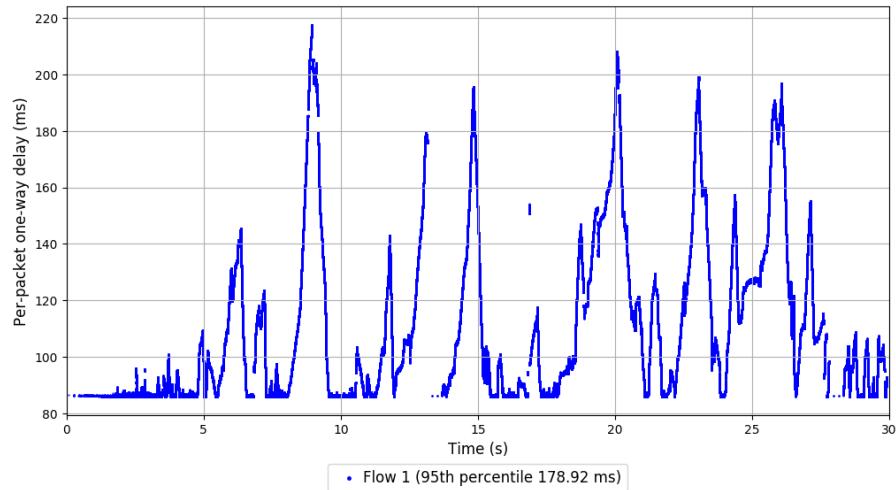
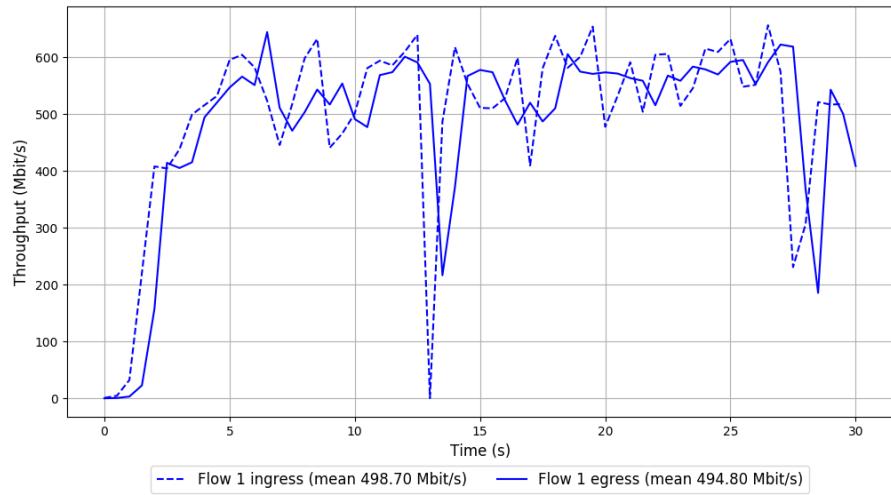


Run 5: Statistics of TCP BBR

```
Start at: 2019-06-27 03:27:43
End at: 2019-06-27 03:28:13
Local clock offset: 2.045 ms
Remote clock offset: 1.666 ms

# Below is generated by plot.py at 2019-06-27 03:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 494.80 Mbit/s
95th percentile per-packet one-way delay: 178.924 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 494.80 Mbit/s
95th percentile per-packet one-way delay: 178.924 ms
Loss rate: 1.35%
```

Run 5: Report of TCP BBR — Data Link

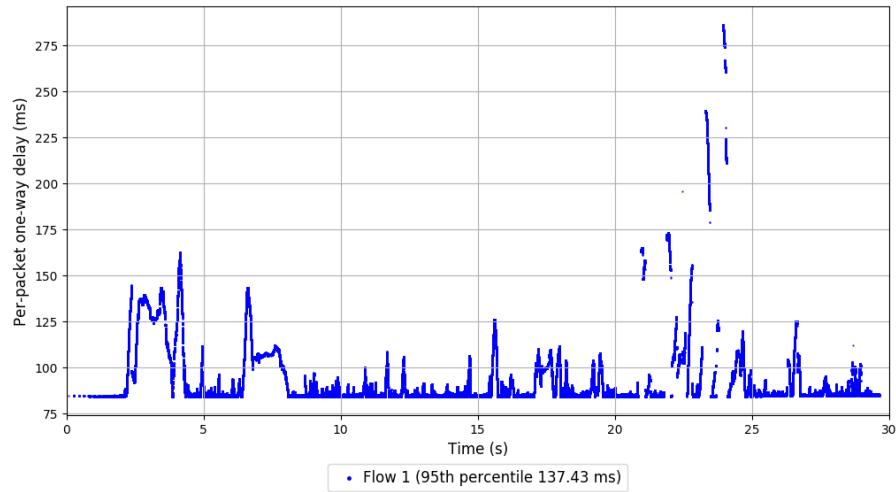
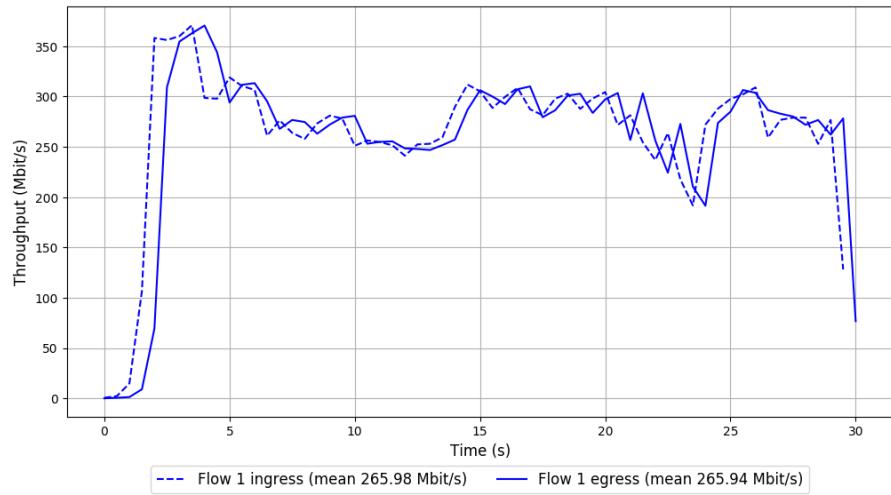


Run 1: Statistics of Copa

```
Start at: 2019-06-27 00:51:29
End at: 2019-06-27 00:51:59
Local clock offset: 6.433 ms
Remote clock offset: 6.541 ms

# Below is generated by plot.py at 2019-06-27 03:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 265.94 Mbit/s
95th percentile per-packet one-way delay: 137.427 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 265.94 Mbit/s
95th percentile per-packet one-way delay: 137.427 ms
Loss rate: 0.59%
```

Run 1: Report of Copa — Data Link

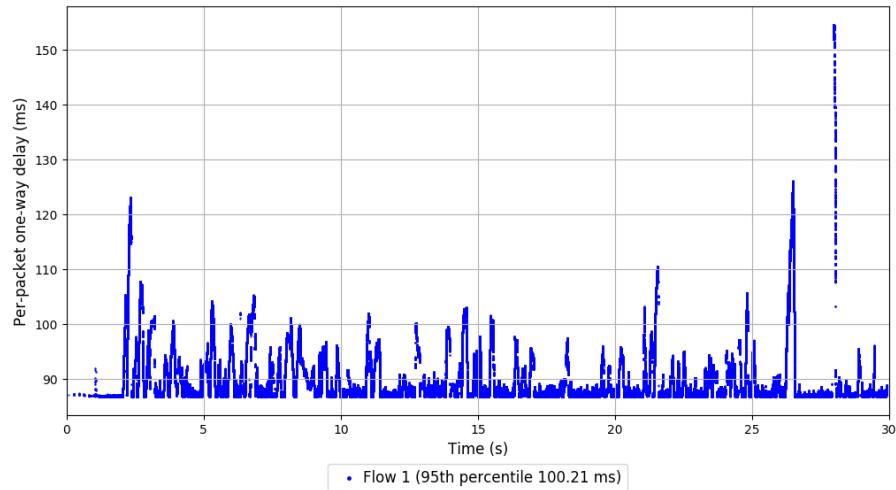
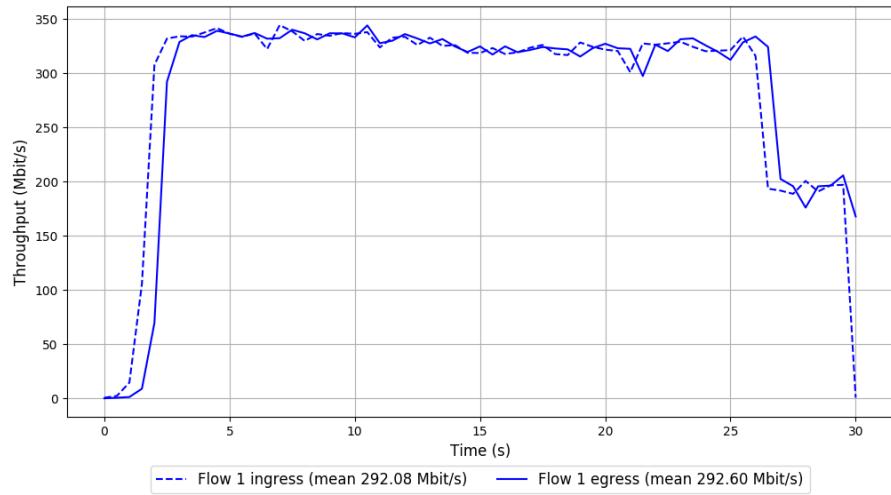


Run 2: Statistics of Copa

```
Start at: 2019-06-27 01:23:02
End at: 2019-06-27 01:23:32
Local clock offset: 29.032 ms
Remote clock offset: 26.45 ms

# Below is generated by plot.py at 2019-06-27 03:49:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.60 Mbit/s
95th percentile per-packet one-way delay: 100.207 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 292.60 Mbit/s
95th percentile per-packet one-way delay: 100.207 ms
Loss rate: 0.40%
```

Run 2: Report of Copa — Data Link

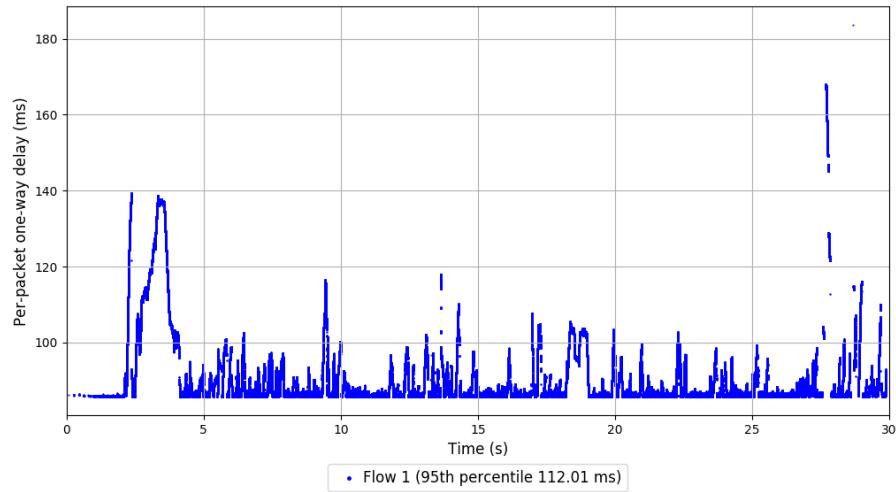
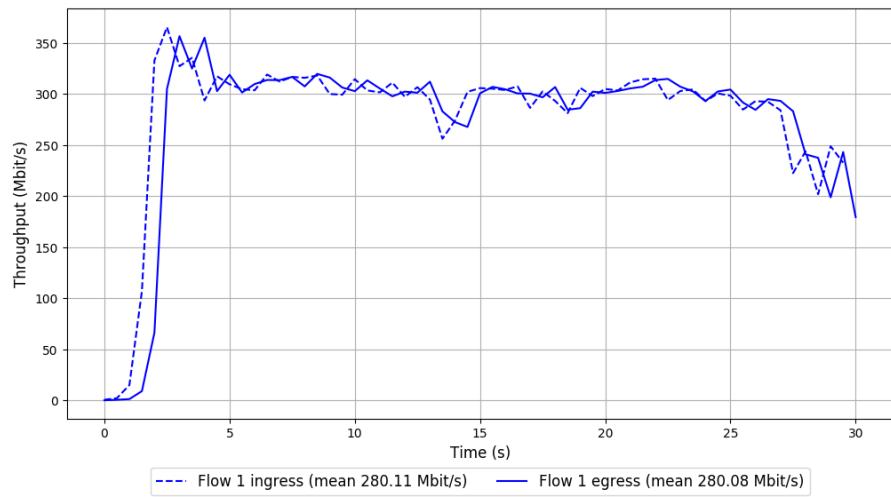


Run 3: Statistics of Copa

```
Start at: 2019-06-27 01:54:51
End at: 2019-06-27 01:55:21
Local clock offset: 43.978 ms
Remote clock offset: 40.962 ms

# Below is generated by plot.py at 2019-06-27 03:49:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 280.08 Mbit/s
95th percentile per-packet one-way delay: 112.014 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 280.08 Mbit/s
95th percentile per-packet one-way delay: 112.014 ms
Loss rate: 0.59%
```

Run 3: Report of Copa — Data Link

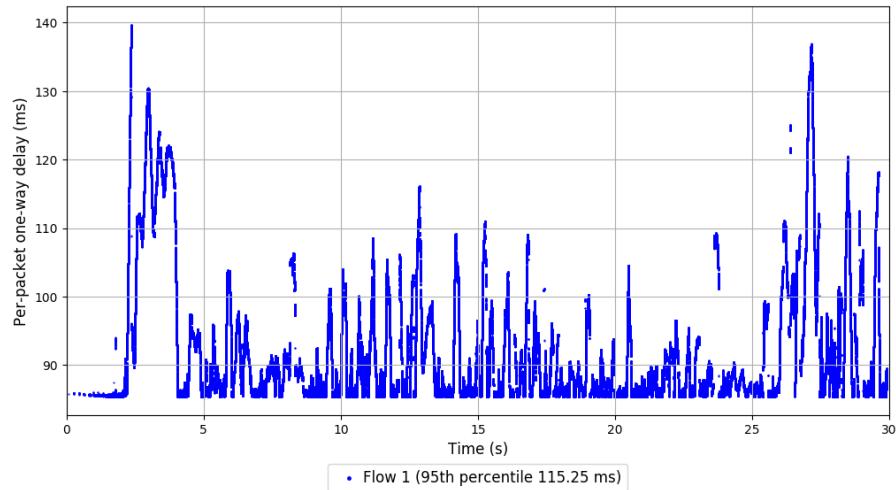
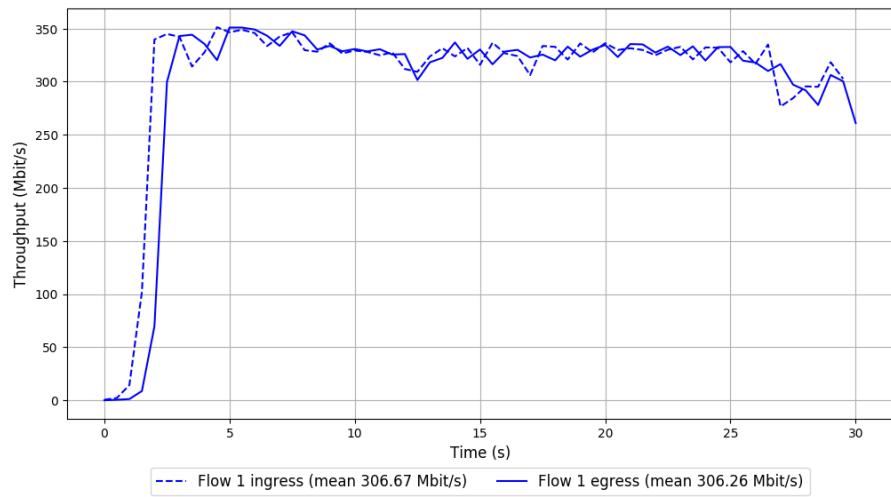


Run 4: Statistics of Copa

```
Start at: 2019-06-27 02:26:33
End at: 2019-06-27 02:27:03
Local clock offset: 20.672 ms
Remote clock offset: 19.505 ms

# Below is generated by plot.py at 2019-06-27 03:58:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.26 Mbit/s
95th percentile per-packet one-way delay: 115.245 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 306.26 Mbit/s
95th percentile per-packet one-way delay: 115.245 ms
Loss rate: 0.71%
```

Run 4: Report of Copa — Data Link

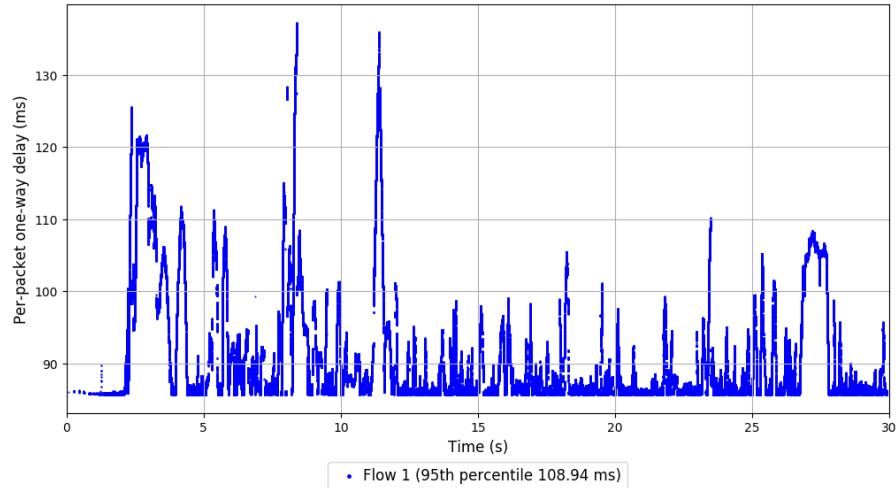
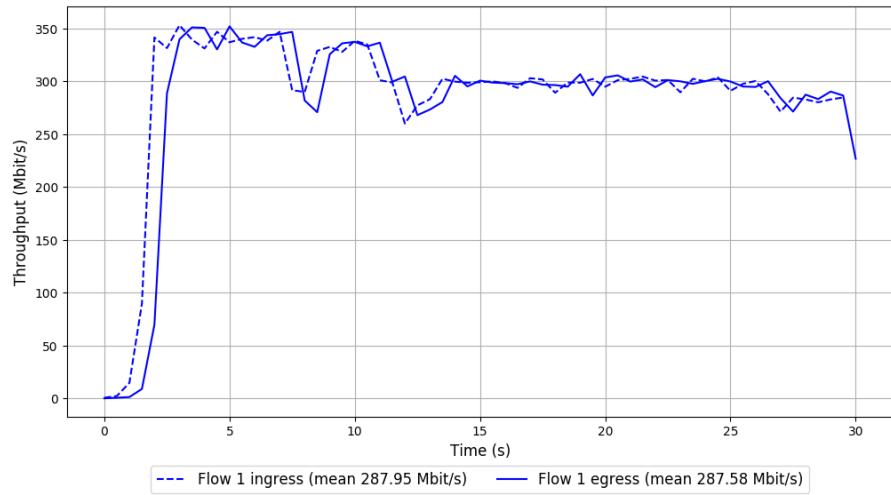


Run 5: Statistics of Copa

```
Start at: 2019-06-27 02:58:53
End at: 2019-06-27 02:59:23
Local clock offset: 4.869 ms
Remote clock offset: 4.66 ms

# Below is generated by plot.py at 2019-06-27 03:58:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 287.58 Mbit/s
95th percentile per-packet one-way delay: 108.939 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 287.58 Mbit/s
95th percentile per-packet one-way delay: 108.939 ms
Loss rate: 0.70%
```

Run 5: Report of Copa — Data Link

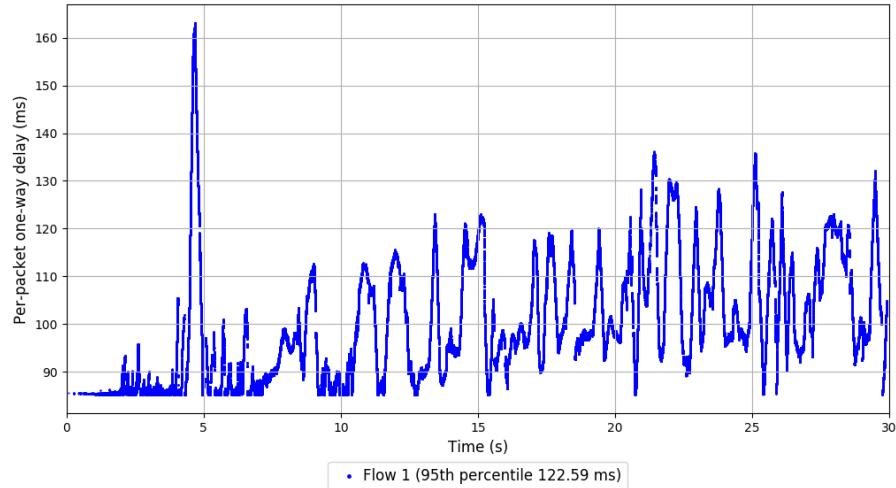
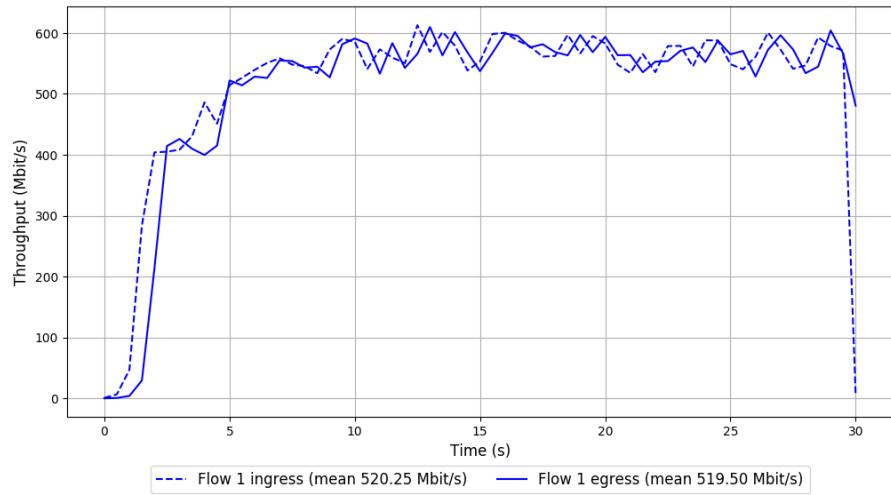


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-06-27 00:54:30
End at: 2019-06-27 00:55:00
Local clock offset: 8.478 ms
Remote clock offset: 8.169 ms

# Below is generated by plot.py at 2019-06-27 03:58:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 519.50 Mbit/s
95th percentile per-packet one-way delay: 122.592 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 519.50 Mbit/s
95th percentile per-packet one-way delay: 122.592 ms
Loss rate: 0.72%
```

Run 1: Report of TCP Cubic — Data Link

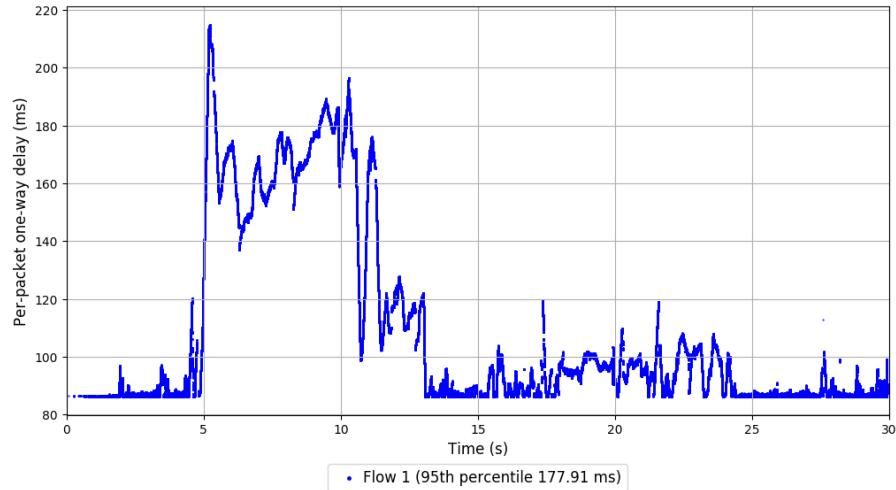
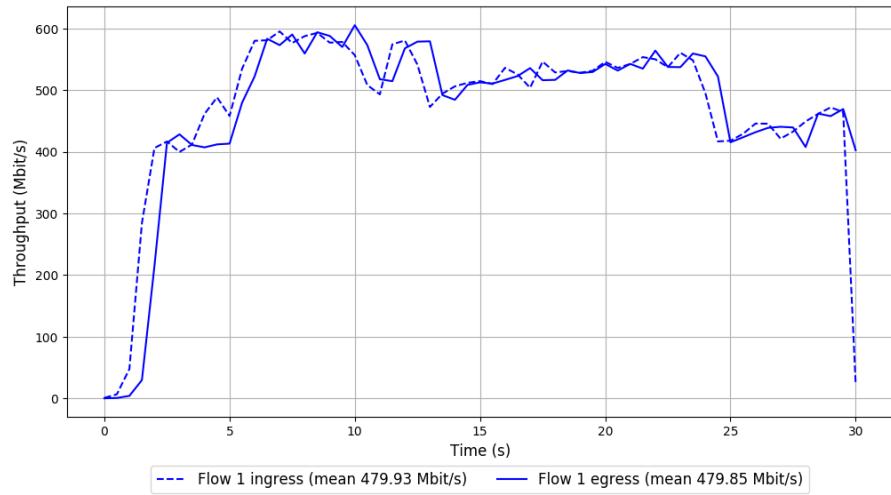


Run 2: Statistics of TCP Cubic

```
Start at: 2019-06-27 01:26:06
End at: 2019-06-27 01:26:36
Local clock offset: 24.313 ms
Remote clock offset: 22.429 ms

# Below is generated by plot.py at 2019-06-27 03:58:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 479.85 Mbit/s
95th percentile per-packet one-way delay: 177.913 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 479.85 Mbit/s
95th percentile per-packet one-way delay: 177.913 ms
Loss rate: 0.61%
```

Run 2: Report of TCP Cubic — Data Link

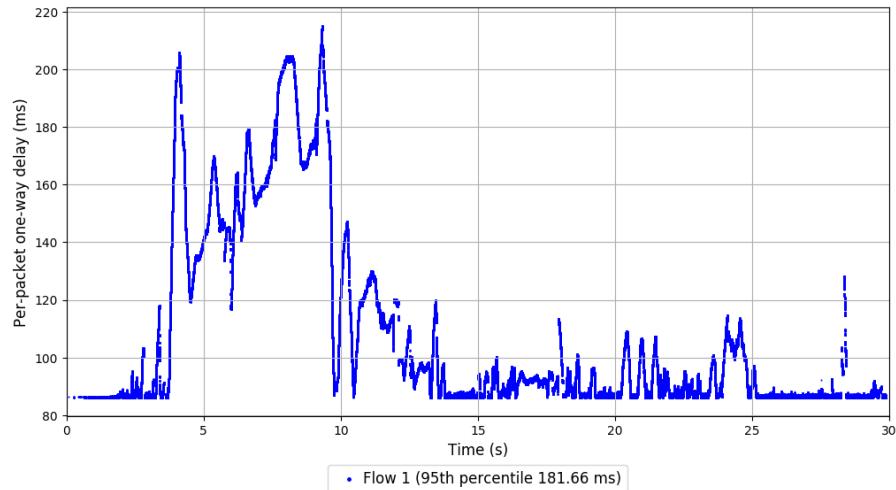
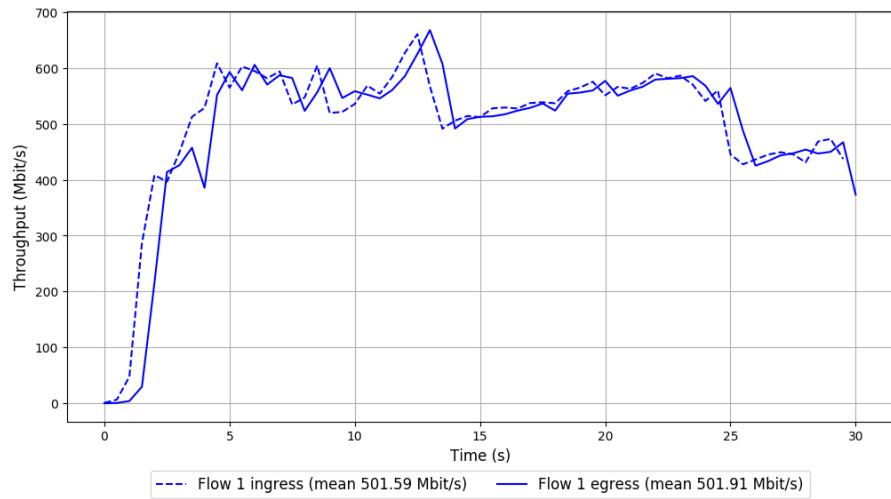


Run 3: Statistics of TCP Cubic

```
Start at: 2019-06-27 01:57:51
End at: 2019-06-27 01:58:21
Local clock offset: 38.741 ms
Remote clock offset: 36.128 ms

# Below is generated by plot.py at 2019-06-27 03:58:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 501.91 Mbit/s
95th percentile per-packet one-way delay: 181.658 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 501.91 Mbit/s
95th percentile per-packet one-way delay: 181.658 ms
Loss rate: 0.51%
```

Run 3: Report of TCP Cubic — Data Link

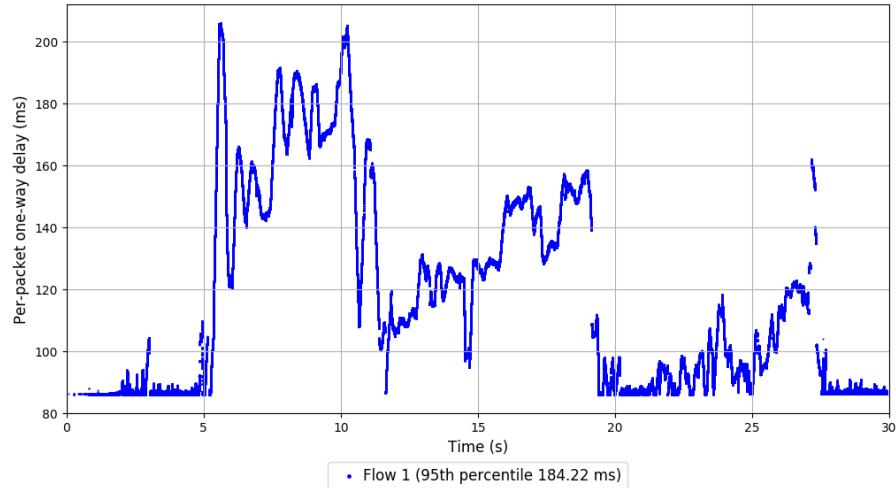
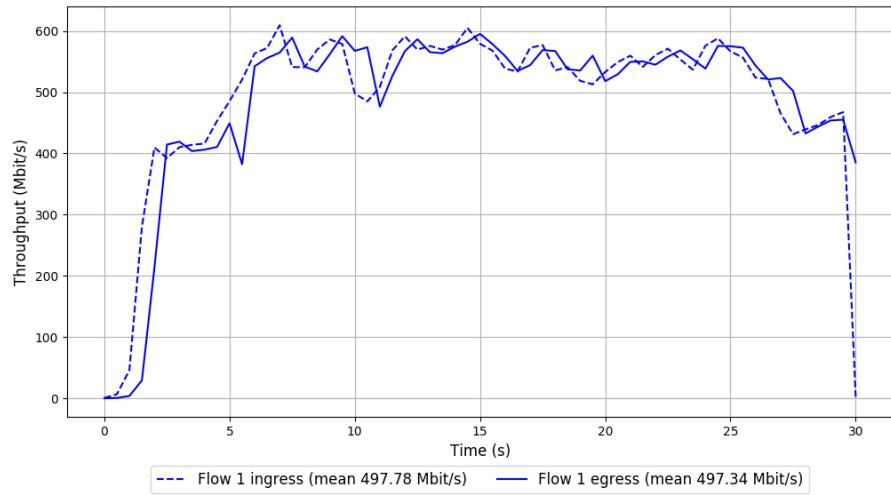


Run 4: Statistics of TCP Cubic

```
Start at: 2019-06-27 02:29:41
End at: 2019-06-27 02:30:11
Local clock offset: 22.946 ms
Remote clock offset: 21.043 ms

# Below is generated by plot.py at 2019-06-27 03:58:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 497.34 Mbit/s
95th percentile per-packet one-way delay: 184.217 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 497.34 Mbit/s
95th percentile per-packet one-way delay: 184.217 ms
Loss rate: 0.66%
```

Run 4: Report of TCP Cubic — Data Link

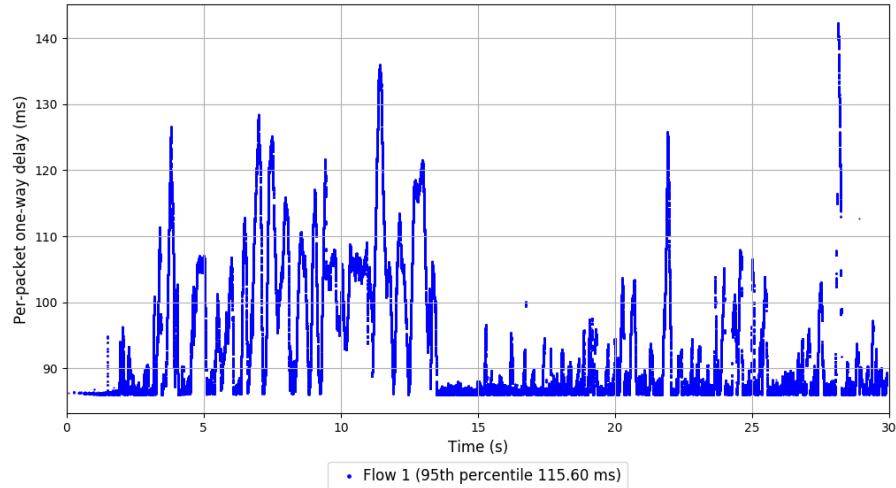
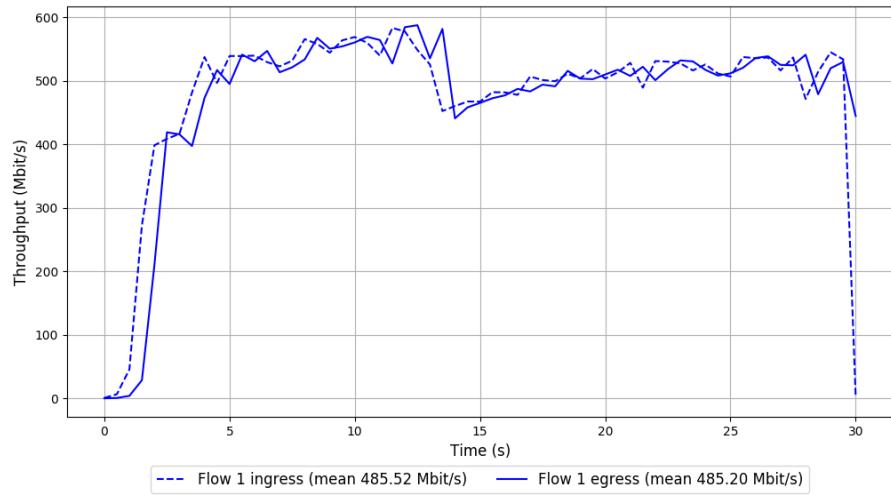


Run 5: Statistics of TCP Cubic

```
Start at: 2019-06-27 03:01:56
End at: 2019-06-27 03:02:26
Local clock offset: 5.068 ms
Remote clock offset: 4.836 ms

# Below is generated by plot.py at 2019-06-27 03:58:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 485.20 Mbit/s
95th percentile per-packet one-way delay: 115.602 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 485.20 Mbit/s
95th percentile per-packet one-way delay: 115.602 ms
Loss rate: 0.64%
```

Run 5: Report of TCP Cubic — Data Link

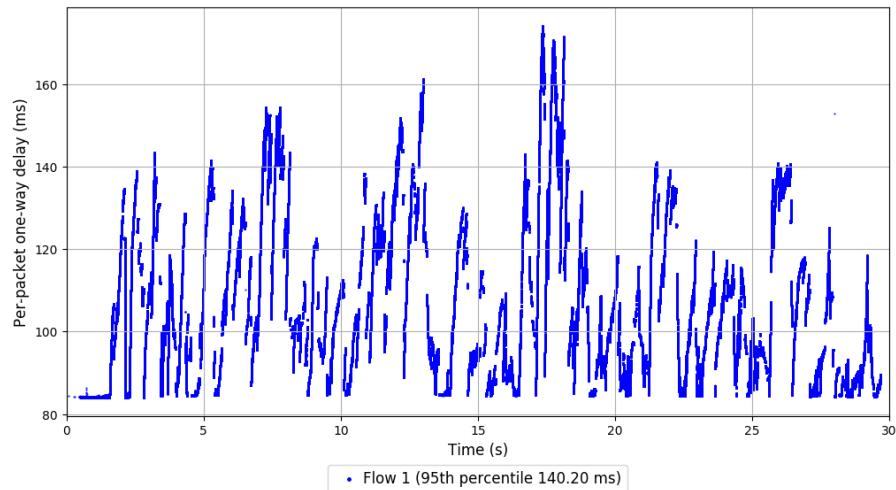
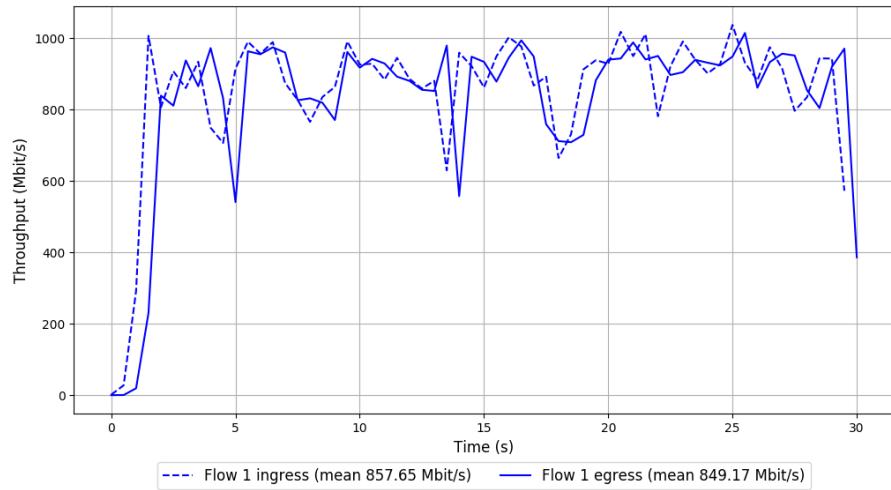


```
Run 1: Statistics of FillP
```

```
Start at: 2019-06-27 00:49:42
End at: 2019-06-27 00:50:12
Local clock offset: 3.728 ms
Remote clock offset: 4.71 ms

# Below is generated by plot.py at 2019-06-27 04:06:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 849.17 Mbit/s
95th percentile per-packet one-way delay: 140.204 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 849.17 Mbit/s
95th percentile per-packet one-way delay: 140.204 ms
Loss rate: 1.56%
```

Run 1: Report of FillP — Data Link

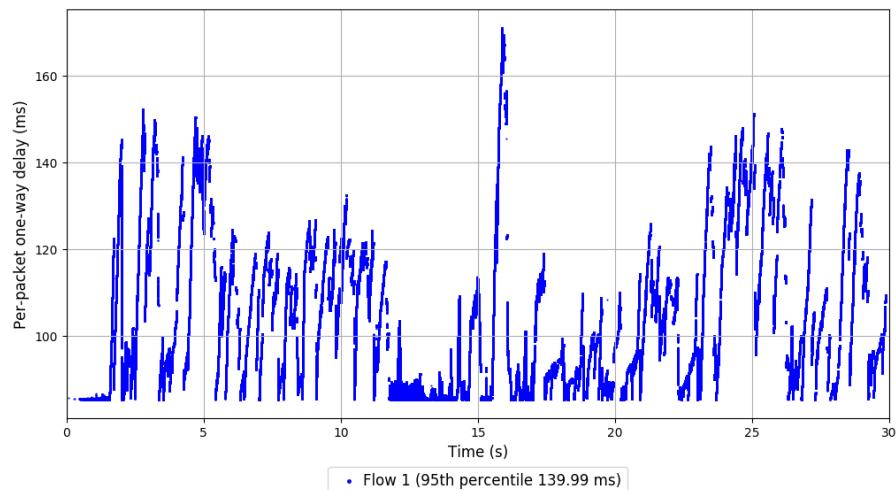
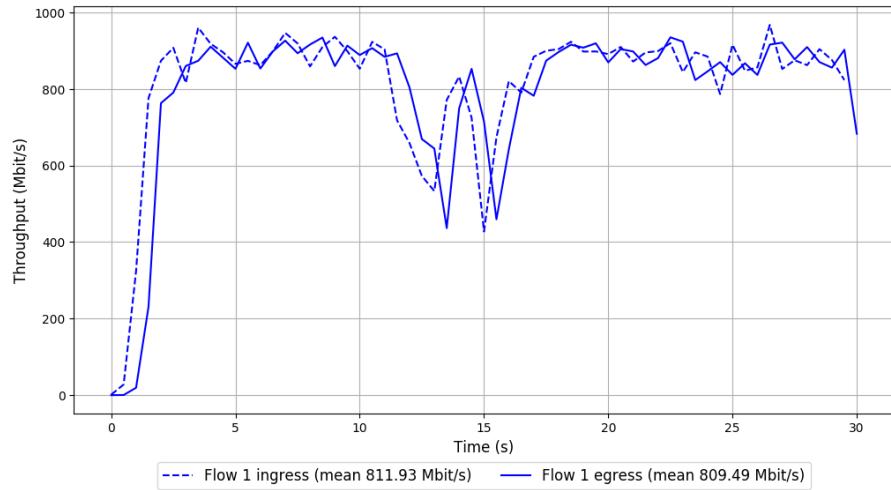


Run 2: Statistics of FillP

```
Start at: 2019-06-27 01:21:19
End at: 2019-06-27 01:21:49
Local clock offset: 29.01 ms
Remote clock offset: 27.46 ms

# Below is generated by plot.py at 2019-06-27 04:15:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 809.49 Mbit/s
95th percentile per-packet one-way delay: 139.987 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 809.49 Mbit/s
95th percentile per-packet one-way delay: 139.987 ms
Loss rate: 0.88%
```

Run 2: Report of FillP — Data Link

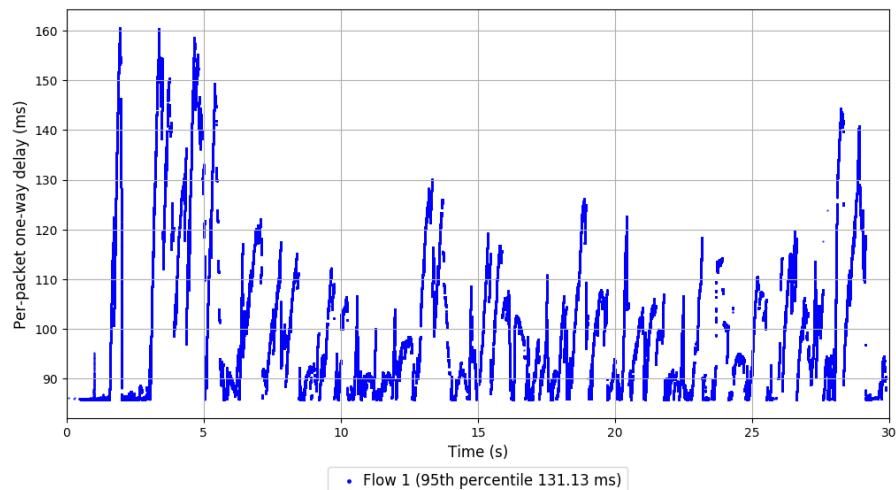
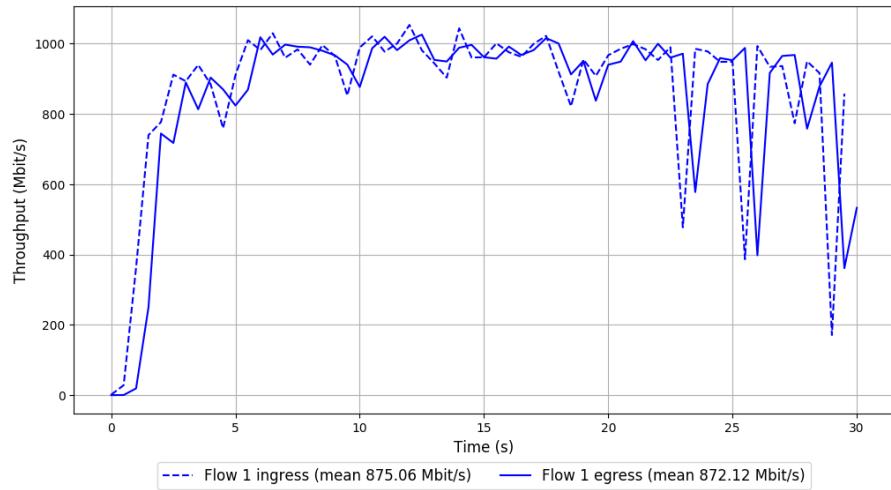


Run 3: Statistics of FillP

```
Start at: 2019-06-27 01:53:05
End at: 2019-06-27 01:53:35
Local clock offset: 41.683 ms
Remote clock offset: 38.748 ms

# Below is generated by plot.py at 2019-06-27 04:17:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 872.12 Mbit/s
95th percentile per-packet one-way delay: 131.127 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 872.12 Mbit/s
95th percentile per-packet one-way delay: 131.127 ms
Loss rate: 0.91%
```

Run 3: Report of FillP — Data Link

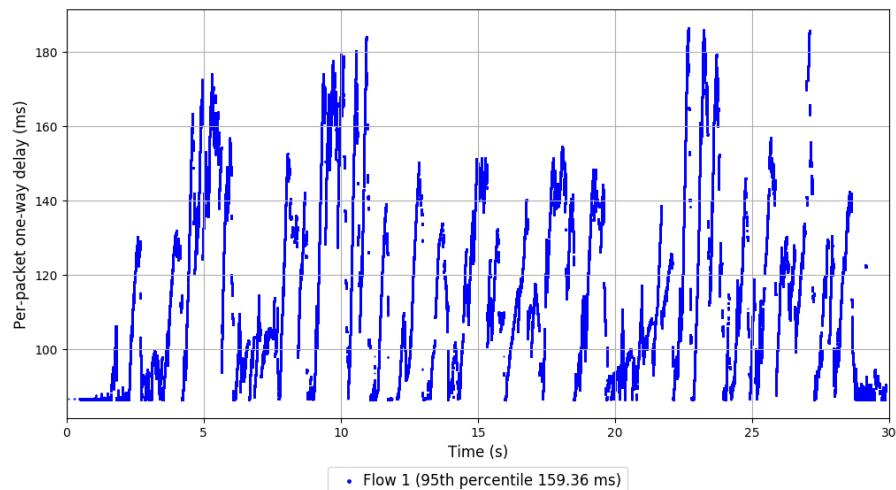
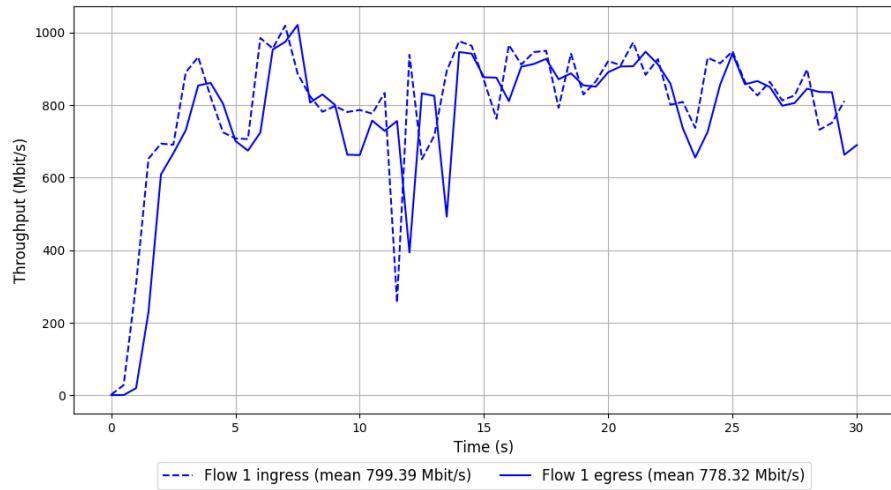


Run 4: Statistics of FillP

```
Start at: 2019-06-27 02:24:51
End at: 2019-06-27 02:25:21
Local clock offset: 20.445 ms
Remote clock offset: 18.69 ms

# Below is generated by plot.py at 2019-06-27 04:17:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 778.32 Mbit/s
95th percentile per-packet one-way delay: 159.356 ms
Loss rate: 3.20%
-- Flow 1:
Average throughput: 778.32 Mbit/s
95th percentile per-packet one-way delay: 159.356 ms
Loss rate: 3.20%
```

Run 4: Report of FillP — Data Link

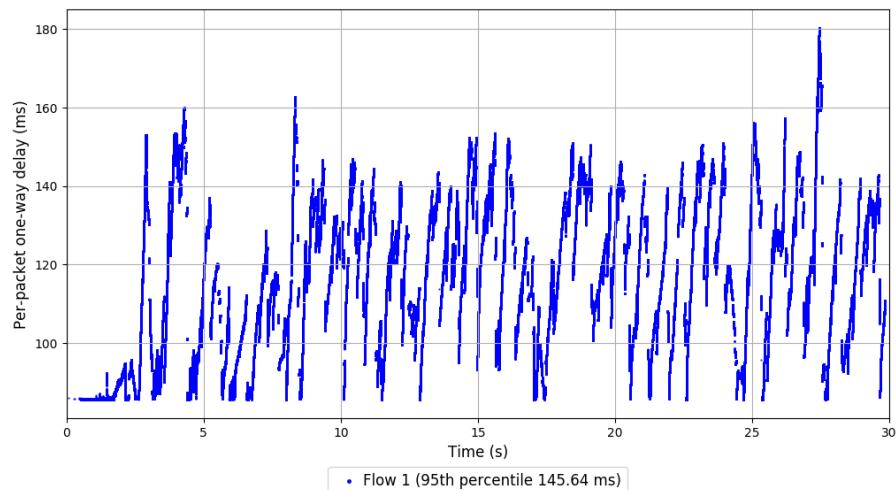
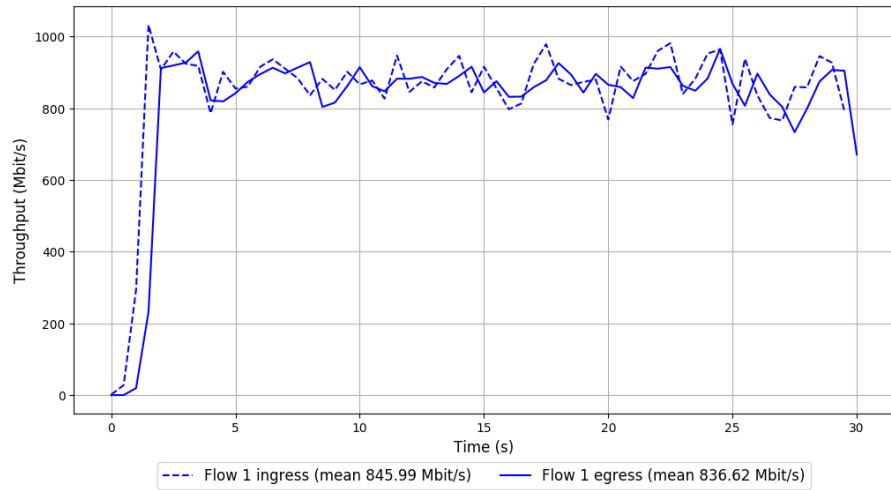


Run 5: Statistics of FillP

```
Start at: 2019-06-27 02:57:07
End at: 2019-06-27 02:57:37
Local clock offset: 4.666 ms
Remote clock offset: 4.598 ms

# Below is generated by plot.py at 2019-06-27 04:17:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 836.62 Mbit/s
95th percentile per-packet one-way delay: 145.641 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 836.62 Mbit/s
95th percentile per-packet one-way delay: 145.641 ms
Loss rate: 1.66%
```

Run 5: Report of FillP — Data Link

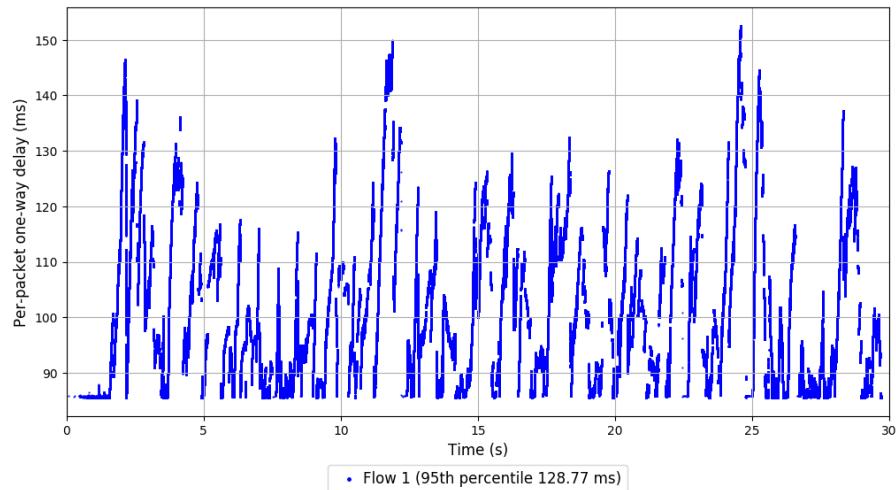
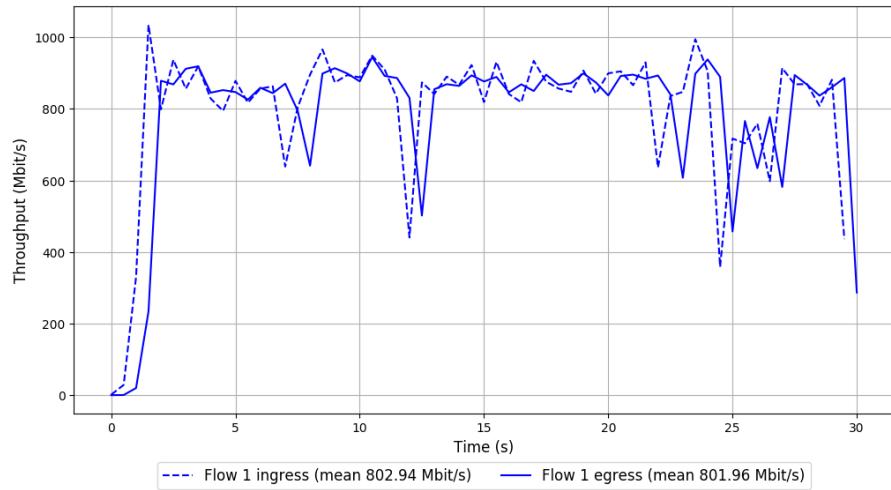


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-06-27 00:58:24
End at: 2019-06-27 00:58:54
Local clock offset: 9.843 ms
Remote clock offset: 9.436 ms

# Below is generated by plot.py at 2019-06-27 04:17:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 801.96 Mbit/s
95th percentile per-packet one-way delay: 128.771 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 801.96 Mbit/s
95th percentile per-packet one-way delay: 128.771 ms
Loss rate: 0.70%
```

Run 1: Report of FillP-Sheep — Data Link

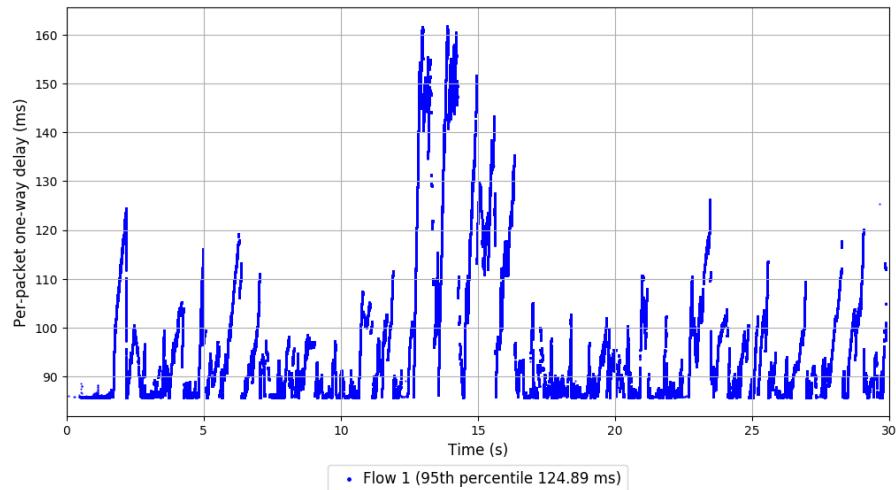
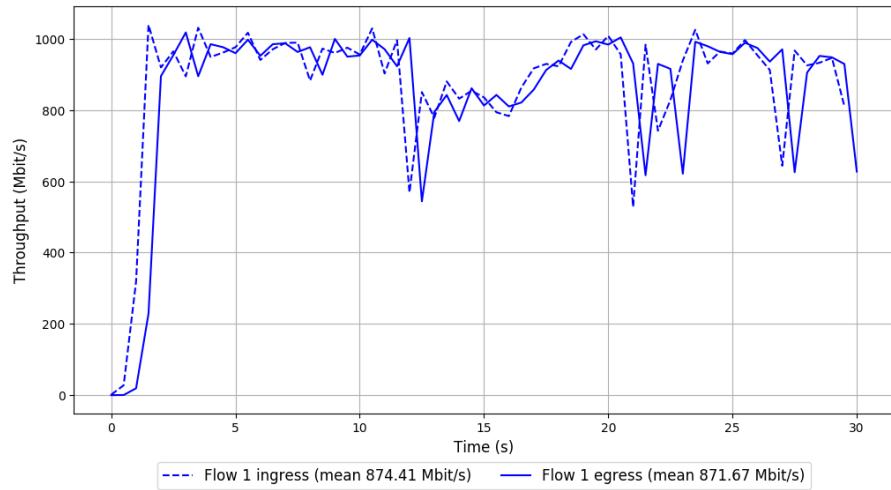


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-06-27 01:30:18
End at: 2019-06-27 01:30:48
Local clock offset: 22.33 ms
Remote clock offset: 20.857 ms

# Below is generated by plot.py at 2019-06-27 04:17:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 871.67 Mbit/s
95th percentile per-packet one-way delay: 124.895 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 871.67 Mbit/s
95th percentile per-packet one-way delay: 124.895 ms
Loss rate: 0.89%
```

Run 2: Report of FillP-Sheep — Data Link

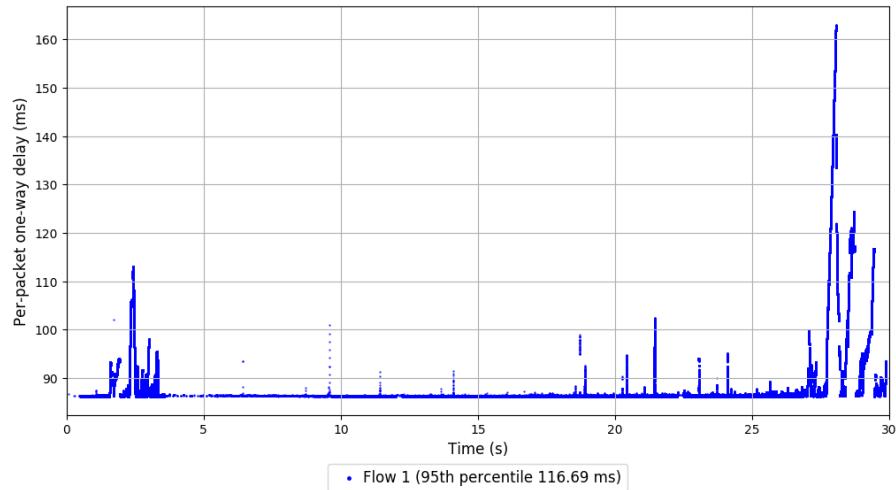
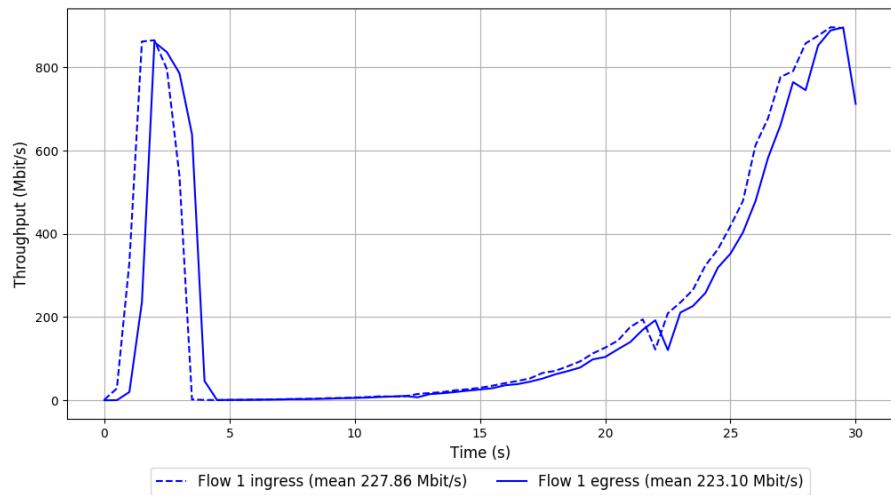


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-06-27 02:02:05
End at: 2019-06-27 02:02:35
Local clock offset: 26.781 ms
Remote clock offset: 24.735 ms

# Below is generated by plot.py at 2019-06-27 04:17:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.10 Mbit/s
95th percentile per-packet one-way delay: 116.686 ms
Loss rate: 2.66%
-- Flow 1:
Average throughput: 223.10 Mbit/s
95th percentile per-packet one-way delay: 116.686 ms
Loss rate: 2.66%
```

Run 3: Report of FillP-Sheep — Data Link

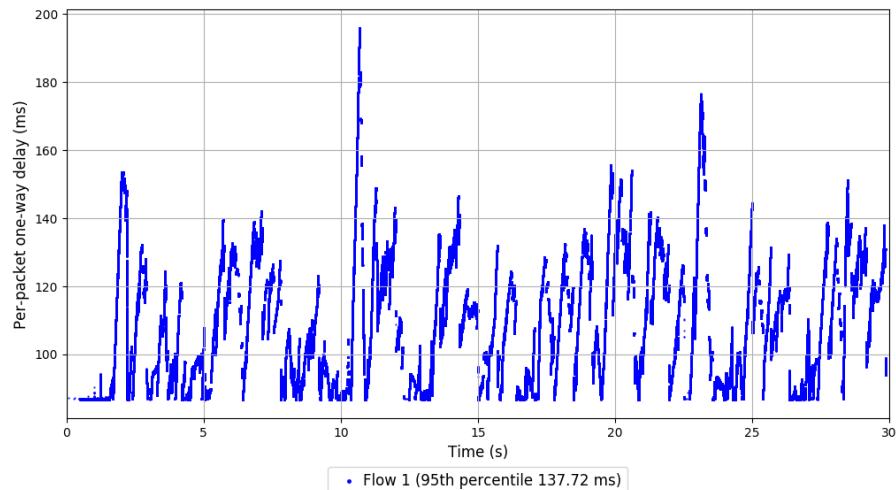
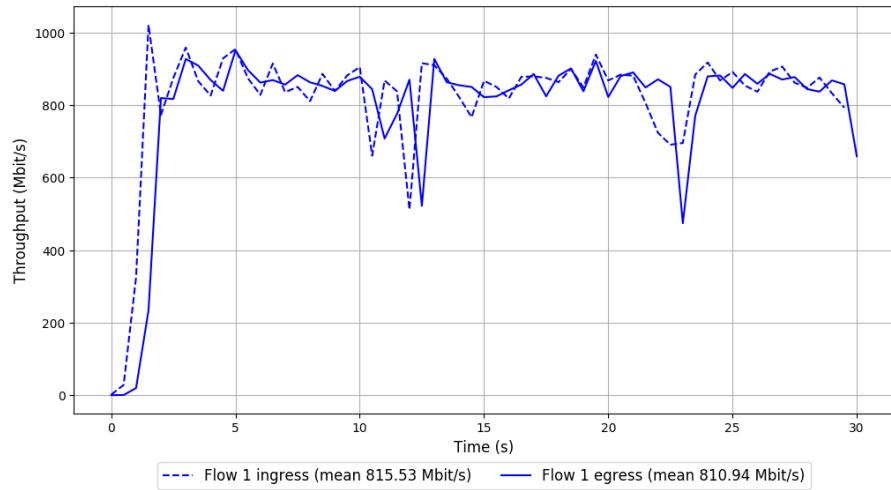


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-06-27 02:33:55
End at: 2019-06-27 02:34:25
Local clock offset: 15.769 ms
Remote clock offset: 14.285 ms

# Below is generated by plot.py at 2019-06-27 04:22:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 810.94 Mbit/s
95th percentile per-packet one-way delay: 137.722 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 810.94 Mbit/s
95th percentile per-packet one-way delay: 137.722 ms
Loss rate: 1.14%
```

Run 4: Report of FillP-Sheep — Data Link

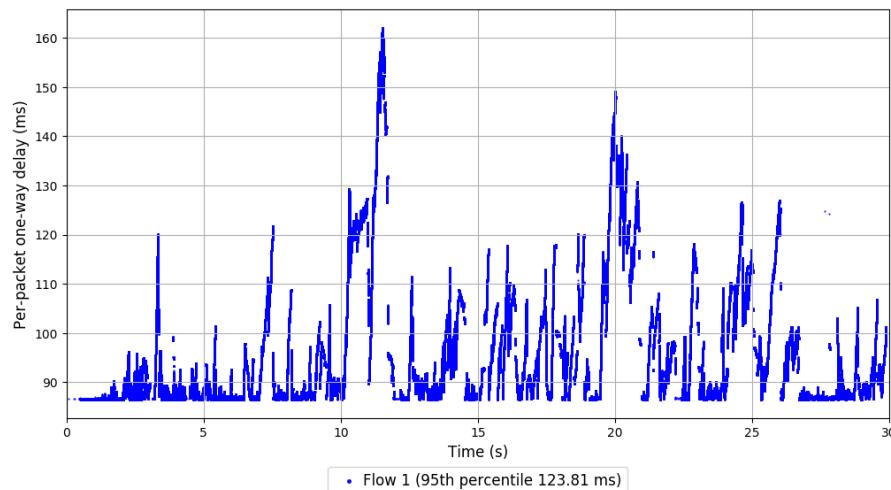
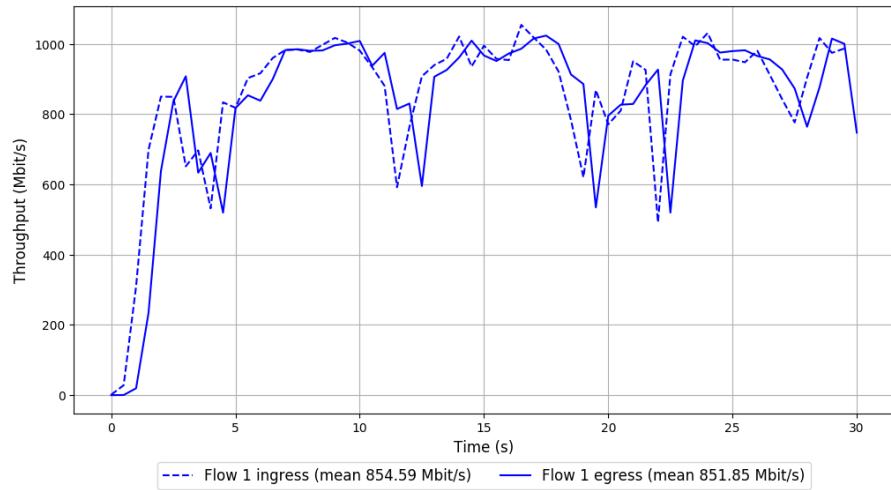


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-06-27 03:06:08
End at: 2019-06-27 03:06:38
Local clock offset: 4.744 ms
Remote clock offset: 4.151 ms

# Below is generated by plot.py at 2019-06-27 04:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 851.85 Mbit/s
95th percentile per-packet one-way delay: 123.815 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 851.85 Mbit/s
95th percentile per-packet one-way delay: 123.815 ms
Loss rate: 0.90%
```

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

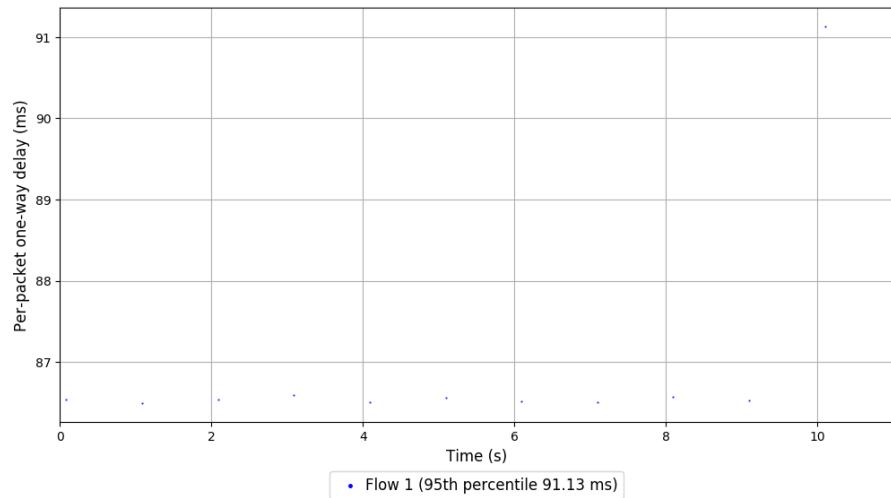
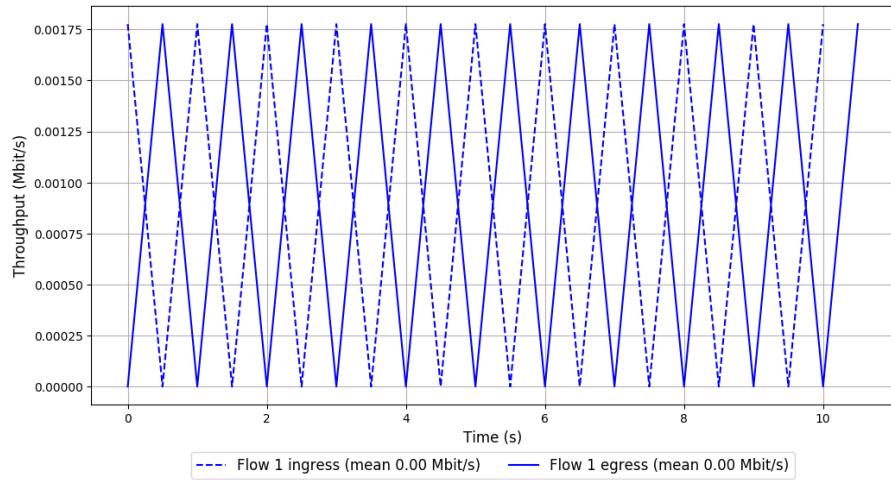
Start at: 2019-06-27 00:57:15

End at: 2019-06-27 00:57:45

Local clock offset: 11.74 ms

Remote clock offset: 10.555 ms

Run 1: Report of Indigo — Data Link

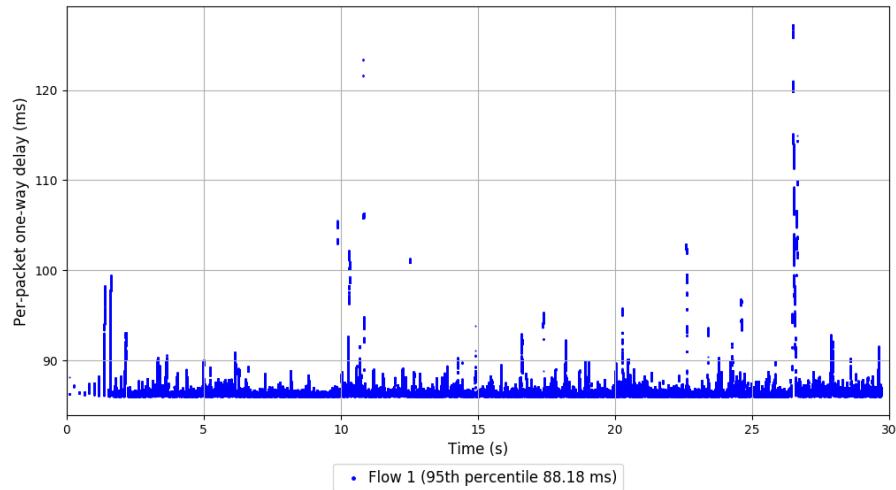
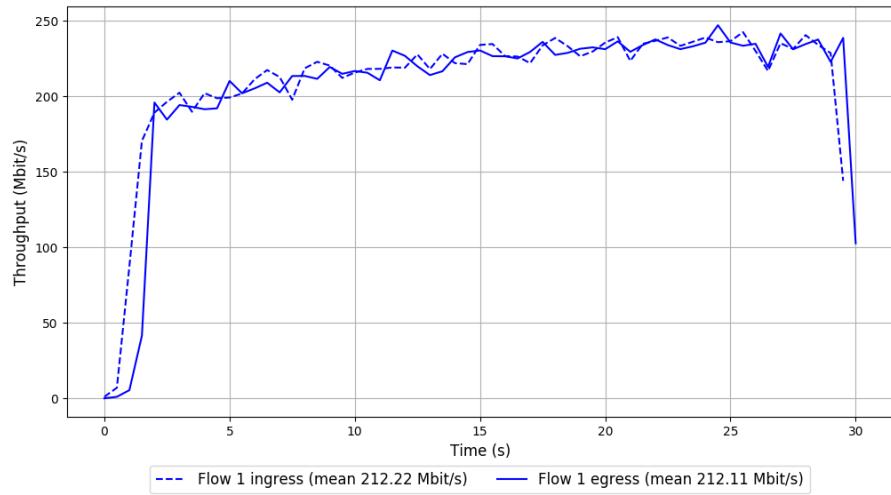


Run 2: Statistics of Indigo

```
Start at: 2019-06-27 01:28:49
End at: 2019-06-27 01:29:19
Local clock offset: 22.772 ms
Remote clock offset: 21.103 ms

# Below is generated by plot.py at 2019-06-27 04:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.11 Mbit/s
95th percentile per-packet one-way delay: 88.178 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 212.11 Mbit/s
95th percentile per-packet one-way delay: 88.178 ms
Loss rate: 0.64%
```

Run 2: Report of Indigo — Data Link

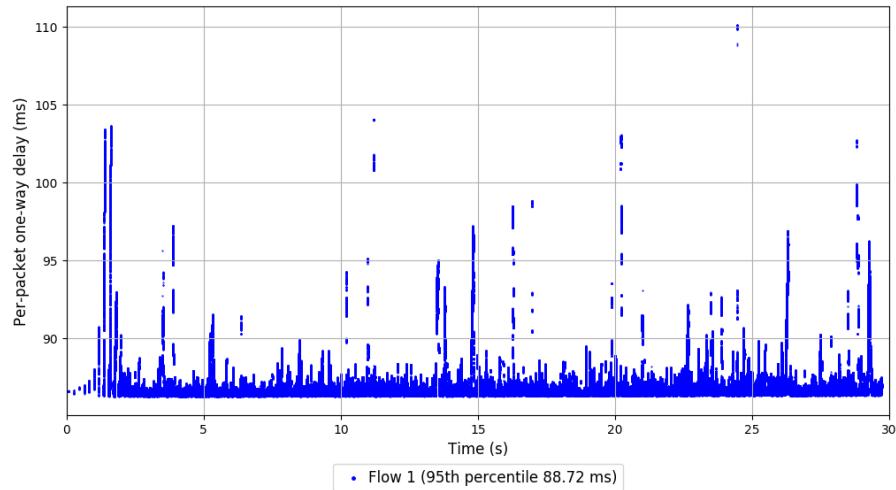
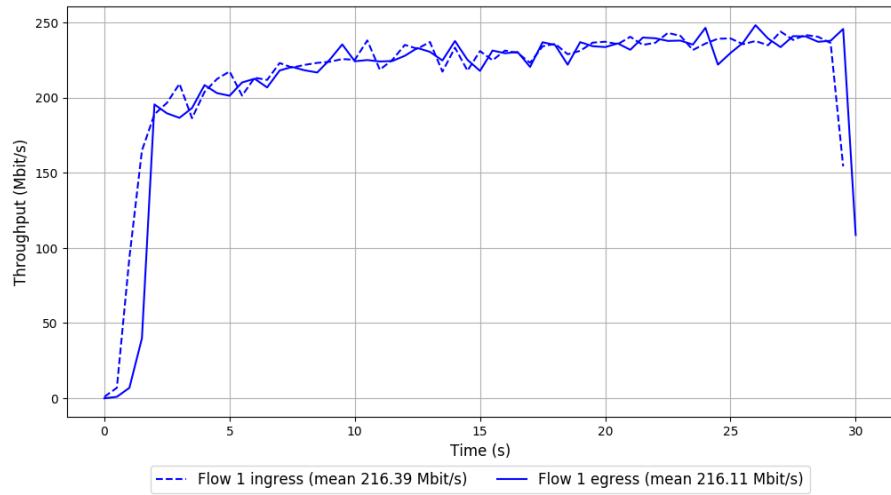


Run 3: Statistics of Indigo

```
Start at: 2019-06-27 02:00:35
End at: 2019-06-27 02:01:05
Local clock offset: 30.262 ms
Remote clock offset: 27.923 ms

# Below is generated by plot.py at 2019-06-27 04:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.11 Mbit/s
95th percentile per-packet one-way delay: 88.723 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 216.11 Mbit/s
95th percentile per-packet one-way delay: 88.723 ms
Loss rate: 0.71%
```

Run 3: Report of Indigo — Data Link

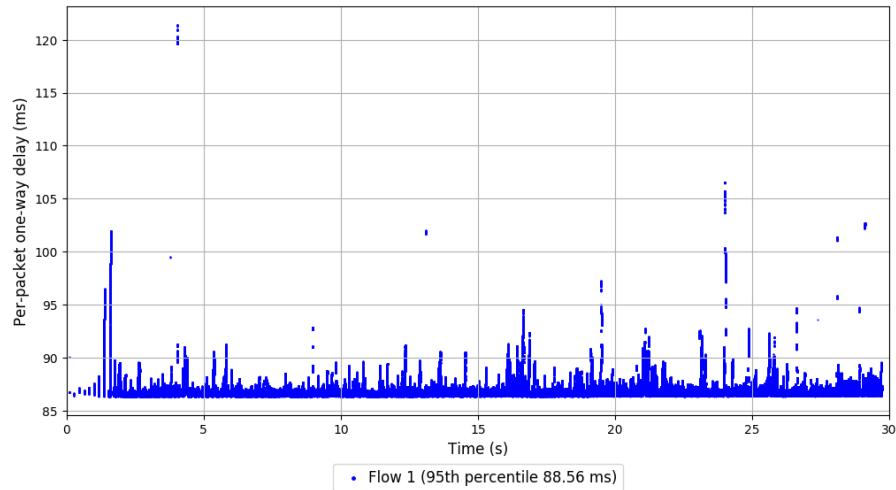
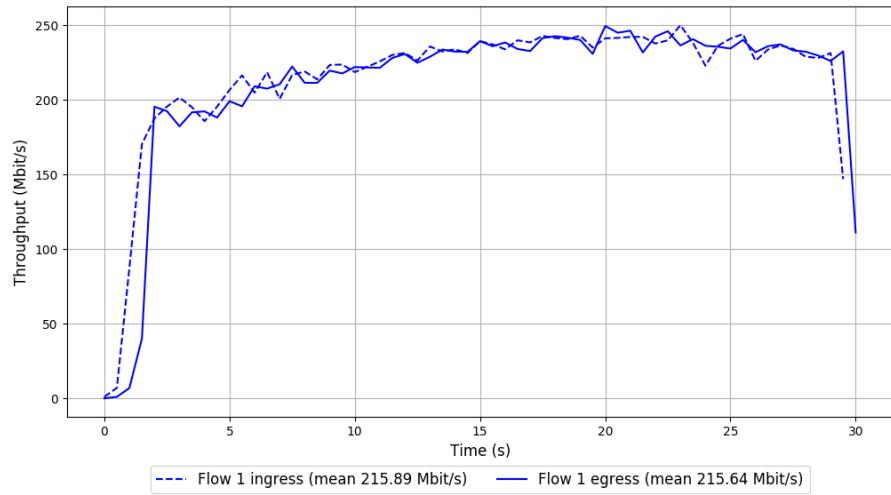


Run 4: Statistics of Indigo

```
Start at: 2019-06-27 02:32:26
End at: 2019-06-27 02:32:56
Local clock offset: 18.676 ms
Remote clock offset: 17.016 ms

# Below is generated by plot.py at 2019-06-27 04:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.64 Mbit/s
95th percentile per-packet one-way delay: 88.558 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 215.64 Mbit/s
95th percentile per-packet one-way delay: 88.558 ms
Loss rate: 0.71%
```

Run 4: Report of Indigo — Data Link

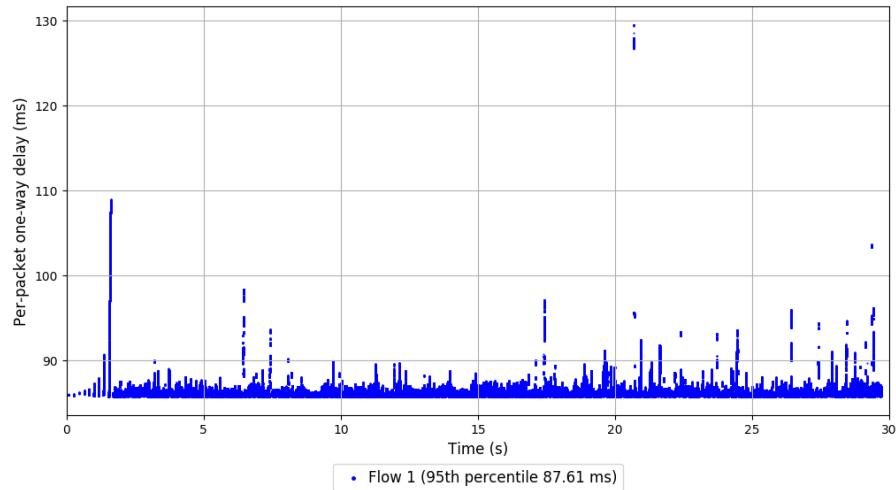
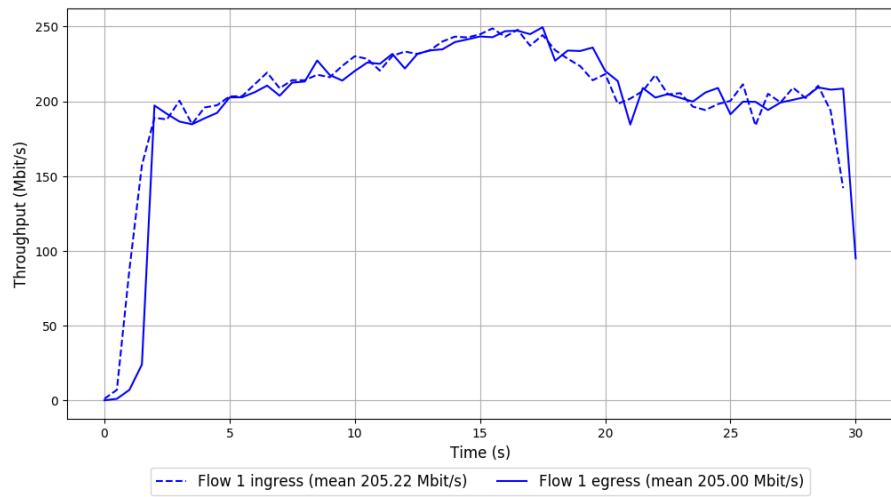


Run 5: Statistics of Indigo

```
Start at: 2019-06-27 03:04:39
End at: 2019-06-27 03:05:09
Local clock offset: 5.256 ms
Remote clock offset: 4.963 ms

# Below is generated by plot.py at 2019-06-27 04:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.00 Mbit/s
95th percentile per-packet one-way delay: 87.614 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 205.00 Mbit/s
95th percentile per-packet one-way delay: 87.614 ms
Loss rate: 0.69%
```

Run 5: Report of Indigo — Data Link

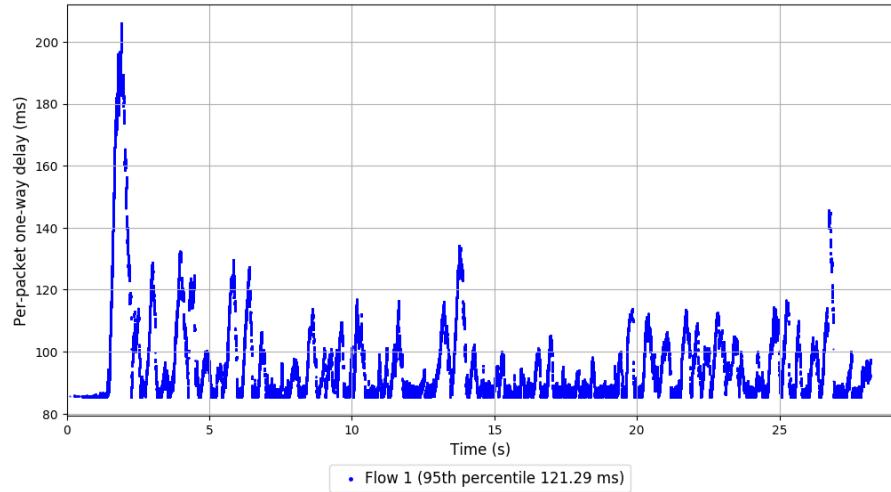
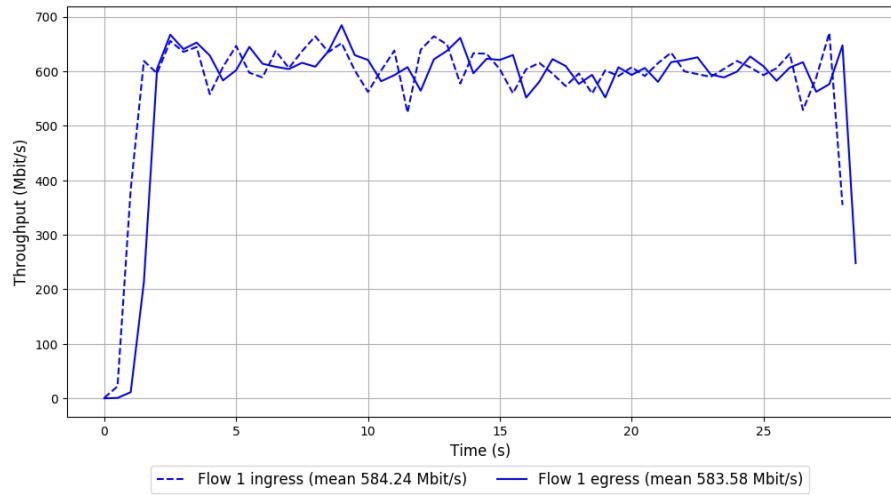


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 01:11:10
End at: 2019-06-27 01:11:40
Local clock offset: 15.028 ms
Remote clock offset: 14.719 ms

# Below is generated by plot.py at 2019-06-27 04:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 583.58 Mbit/s
95th percentile per-packet one-way delay: 121.287 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 583.58 Mbit/s
95th percentile per-packet one-way delay: 121.287 ms
Loss rate: 0.73%
```

Run 1: Report of Indigo-MusesC3 — Data Link

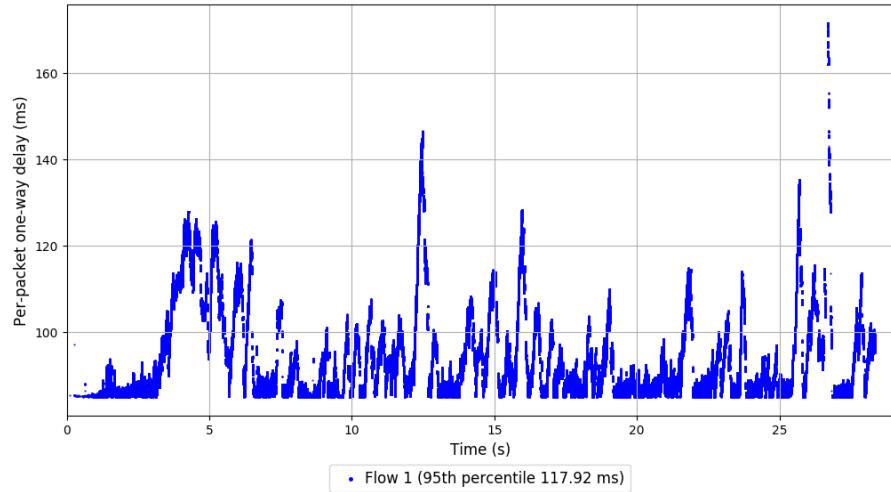
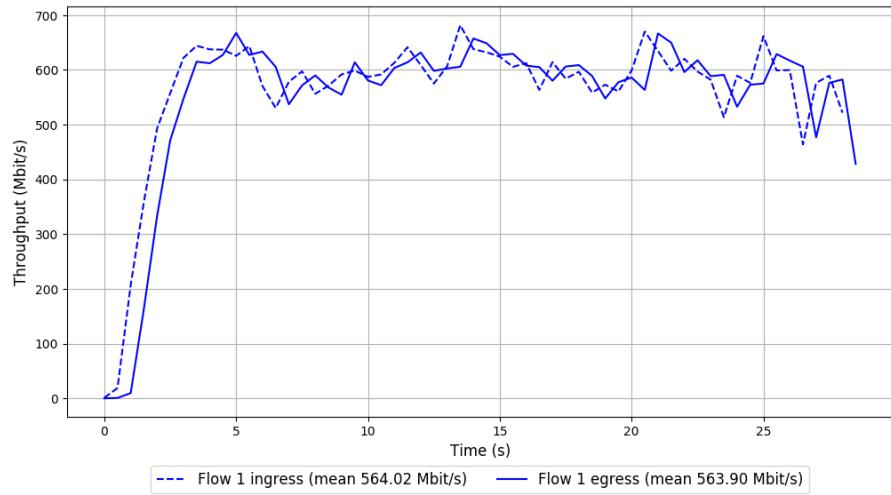


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 01:42:53
End at: 2019-06-27 01:43:23
Local clock offset: 29.375 ms
Remote clock offset: 27.923 ms

# Below is generated by plot.py at 2019-06-27 04:28:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 563.90 Mbit/s
95th percentile per-packet one-way delay: 117.920 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 563.90 Mbit/s
95th percentile per-packet one-way delay: 117.920 ms
Loss rate: 0.63%
```

Run 2: Report of Indigo-MusesC3 — Data Link

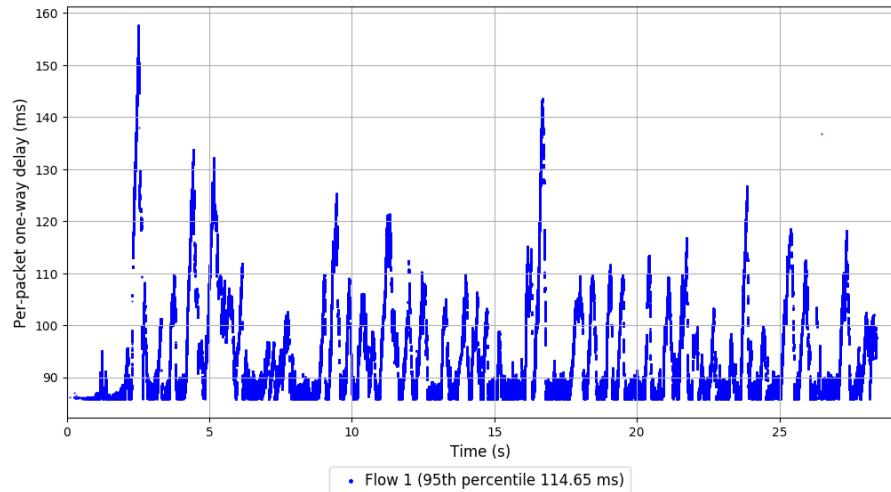
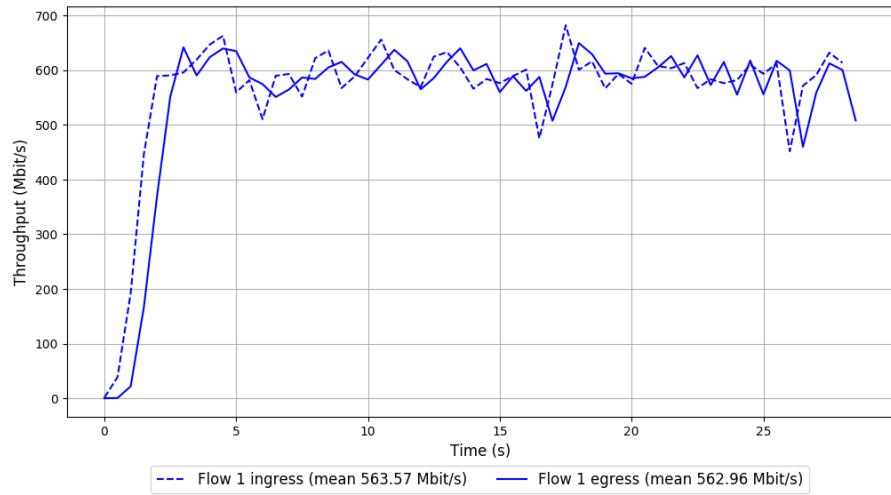


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 02:14:28
End at: 2019-06-27 02:14:58
Local clock offset: 16.849 ms
Remote clock offset: 15.899 ms

# Below is generated by plot.py at 2019-06-27 04:33:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 562.96 Mbit/s
95th percentile per-packet one-way delay: 114.651 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 562.96 Mbit/s
95th percentile per-packet one-way delay: 114.651 ms
Loss rate: 0.72%
```

Run 3: Report of Indigo-MusesC3 — Data Link

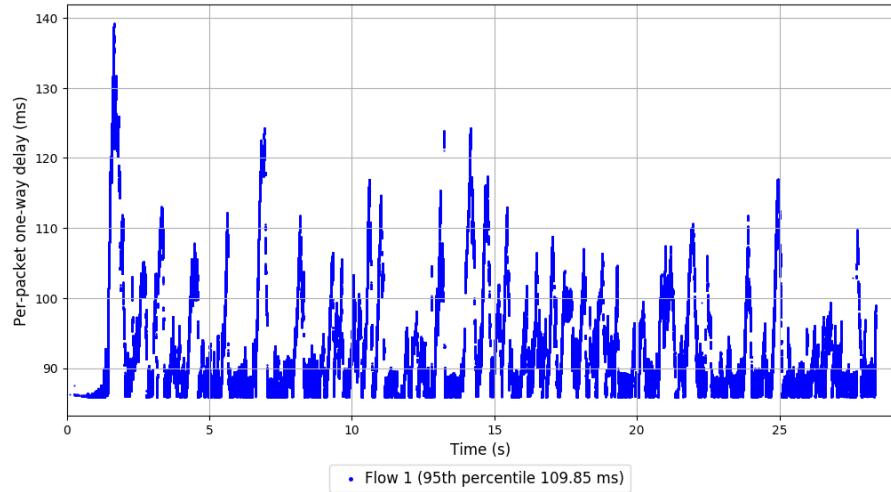
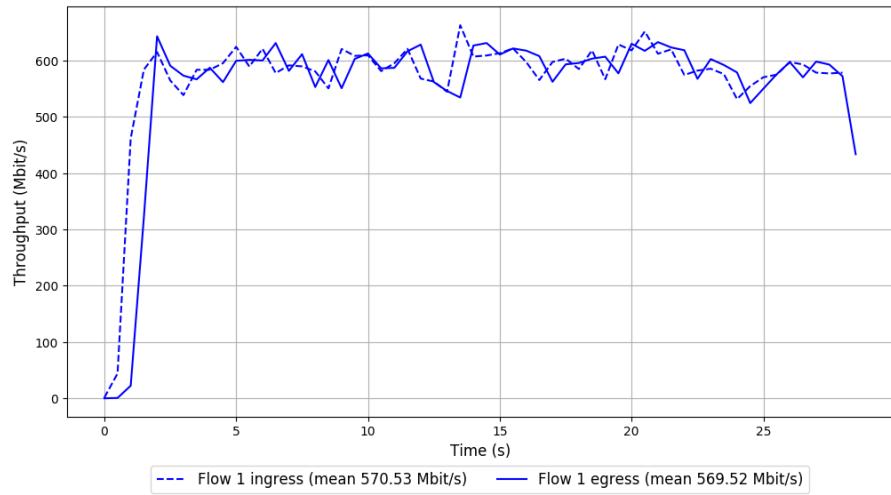


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 02:46:45
End at: 2019-06-27 02:47:15
Local clock offset: 5.735 ms
Remote clock offset: 5.328 ms

# Below is generated by plot.py at 2019-06-27 04:33:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 569.52 Mbit/s
95th percentile per-packet one-way delay: 109.849 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 569.52 Mbit/s
95th percentile per-packet one-way delay: 109.849 ms
Loss rate: 0.78%
```

Run 4: Report of Indigo-MusesC3 — Data Link

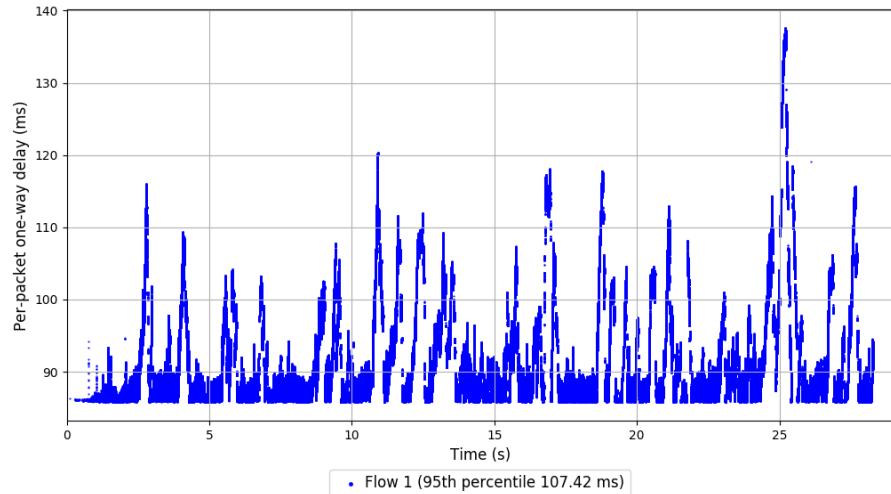
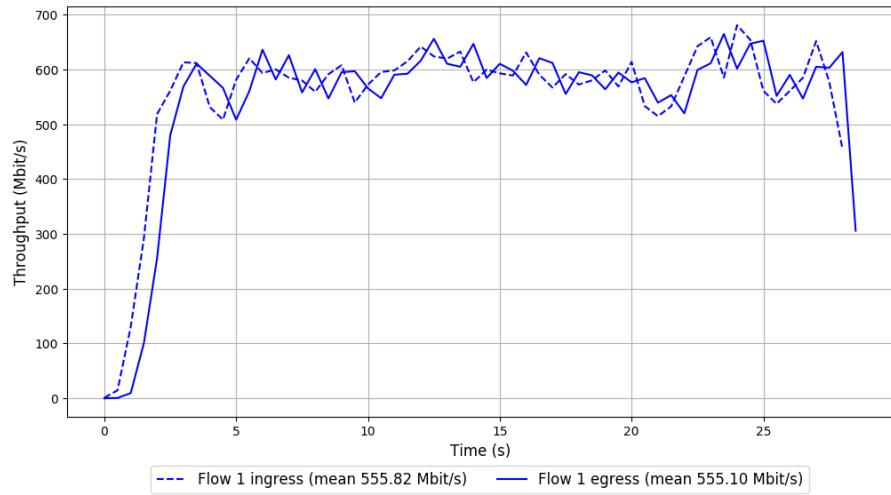


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 03:18:58
End at: 2019-06-27 03:19:28
Local clock offset: 1.904 ms
Remote clock offset: 1.745 ms

# Below is generated by plot.py at 2019-06-27 04:33:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 555.10 Mbit/s
95th percentile per-packet one-way delay: 107.421 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 555.10 Mbit/s
95th percentile per-packet one-way delay: 107.421 ms
Loss rate: 0.73%
```

Run 5: Report of Indigo-MusesC3 — Data Link

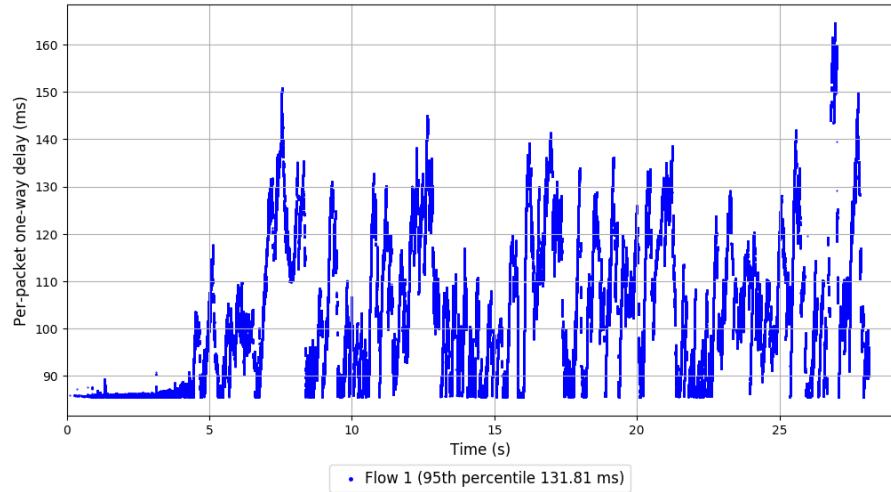
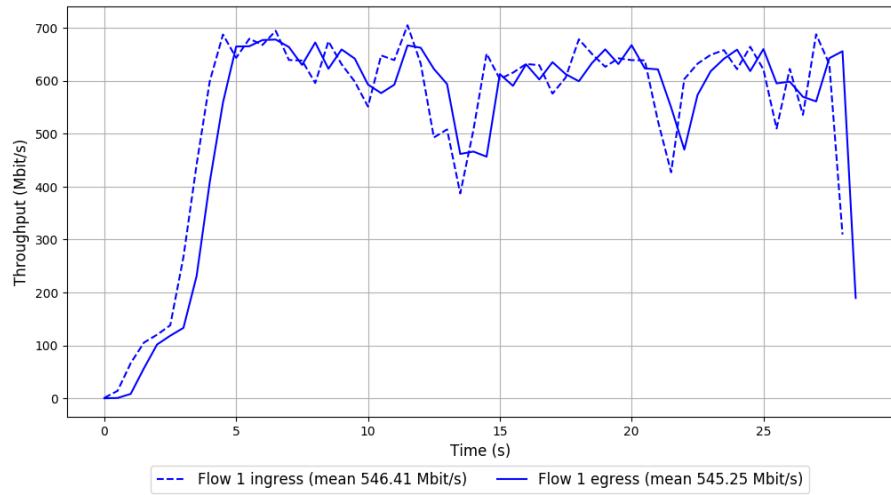


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 01:18:07
End at: 2019-06-27 01:18:37
Local clock offset: 24.024 ms
Remote clock offset: 22.605 ms

# Below is generated by plot.py at 2019-06-27 04:33:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 545.25 Mbit/s
95th percentile per-packet one-way delay: 131.813 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 545.25 Mbit/s
95th percentile per-packet one-way delay: 131.813 ms
Loss rate: 0.82%
```

Run 1: Report of Indigo-MusesC5 — Data Link

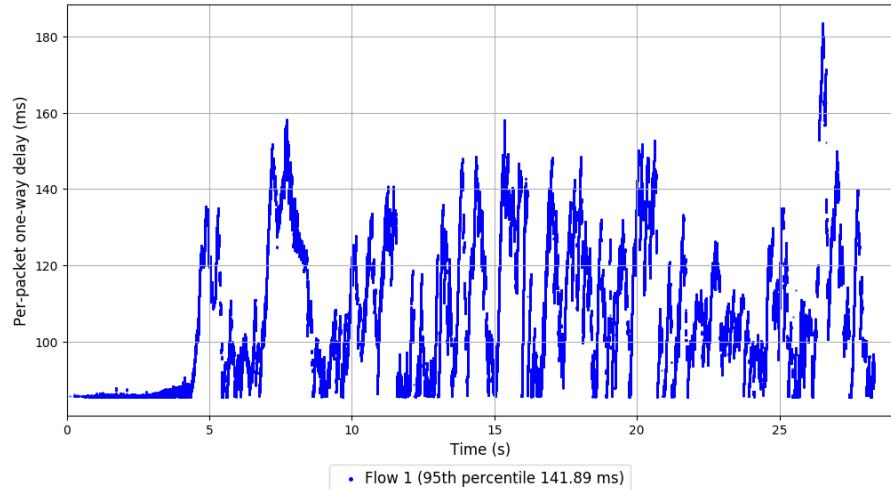
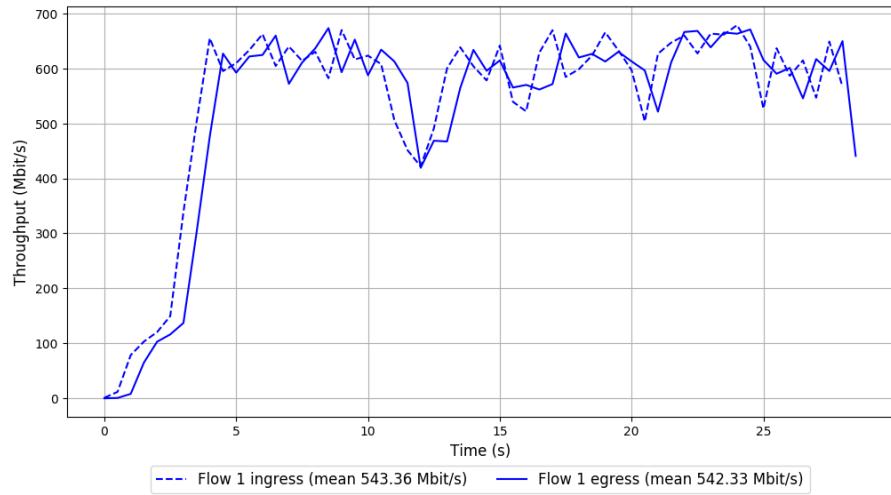


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 01:49:55
End at: 2019-06-27 01:50:25
Local clock offset: 37.68 ms
Remote clock offset: 35.286 ms

# Below is generated by plot.py at 2019-06-27 04:33:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 542.33 Mbit/s
95th percentile per-packet one-way delay: 141.890 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 542.33 Mbit/s
95th percentile per-packet one-way delay: 141.890 ms
Loss rate: 0.79%
```

Run 2: Report of Indigo-MusesC5 — Data Link

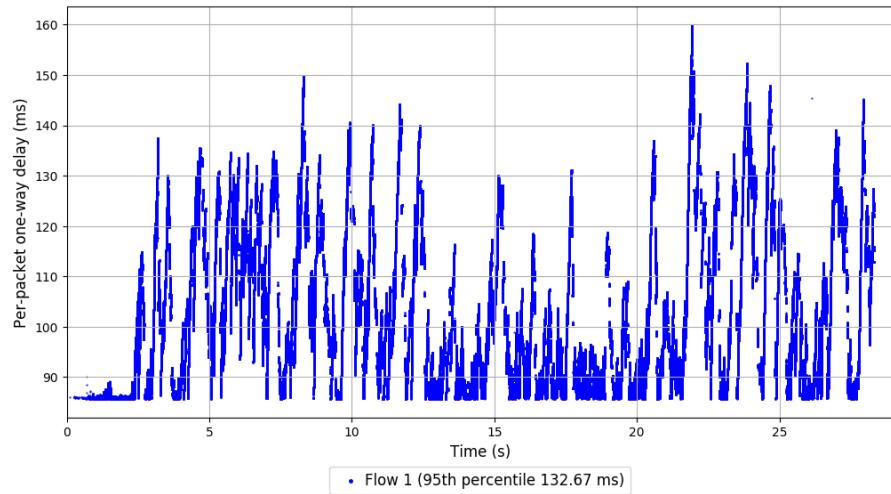
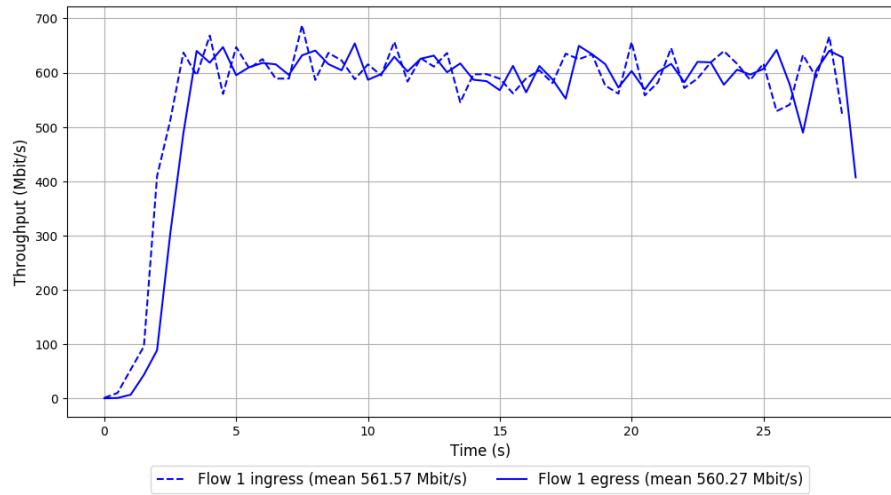


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 02:21:37
End at: 2019-06-27 02:22:07
Local clock offset: 18.712 ms
Remote clock offset: 17.463 ms

# Below is generated by plot.py at 2019-06-27 04:38:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 560.27 Mbit/s
95th percentile per-packet one-way delay: 132.674 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 560.27 Mbit/s
95th percentile per-packet one-way delay: 132.674 ms
Loss rate: 0.84%
```

Run 3: Report of Indigo-MusesC5 — Data Link

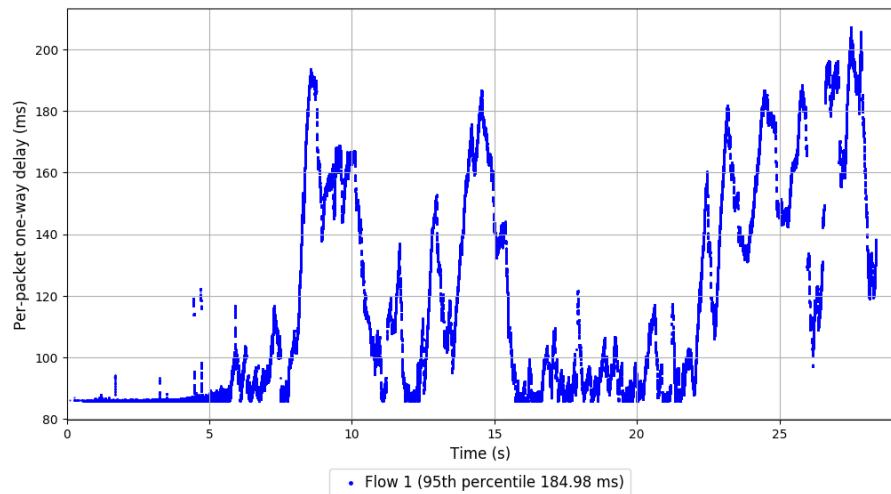
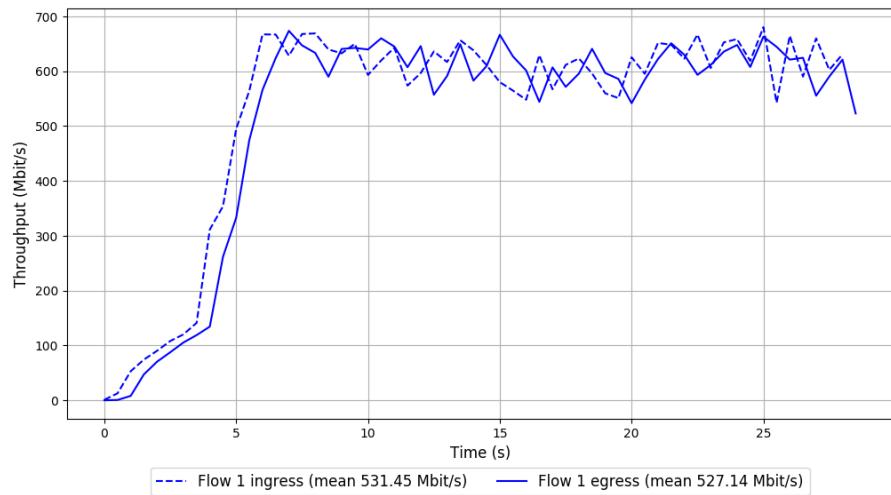


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 02:53:54
End at: 2019-06-27 02:54:24
Local clock offset: 4.827 ms
Remote clock offset: 4.549 ms

# Below is generated by plot.py at 2019-06-27 04:38:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 527.14 Mbit/s
95th percentile per-packet one-way delay: 184.983 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 527.14 Mbit/s
95th percentile per-packet one-way delay: 184.983 ms
Loss rate: 1.41%
```

Run 4: Report of Indigo-MusesC5 — Data Link

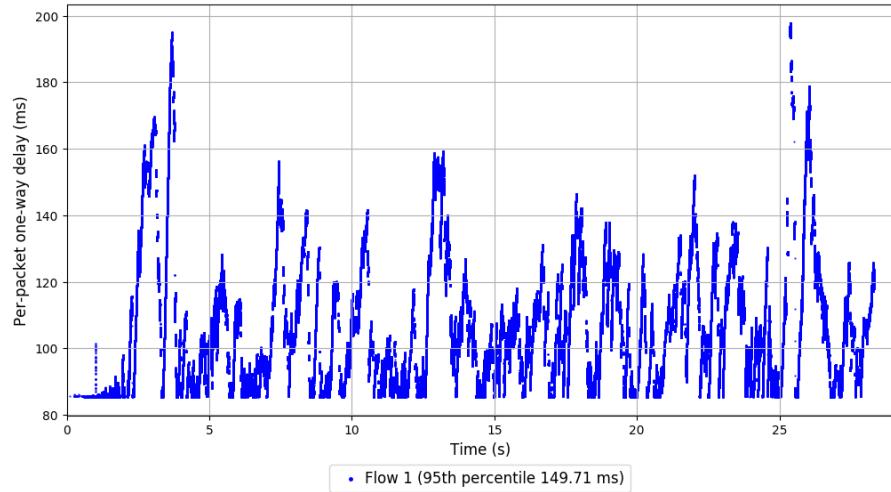
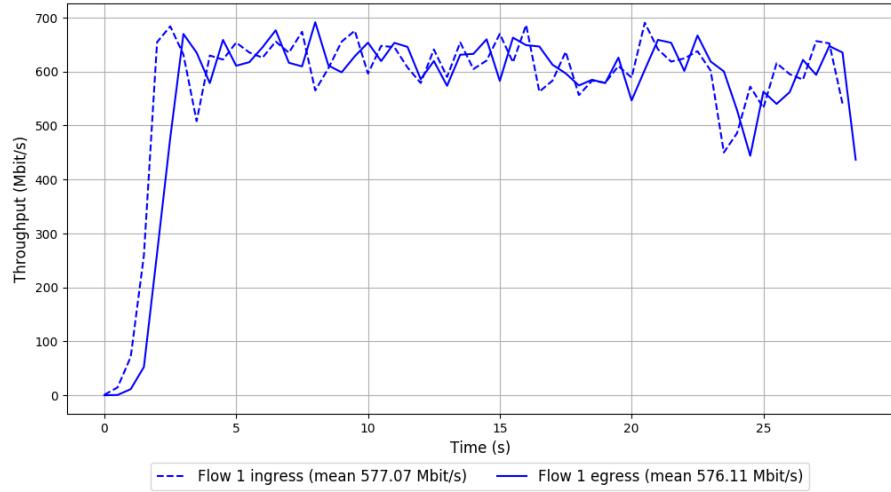


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 03:26:06
End at: 2019-06-27 03:26:36
Local clock offset: 1.383 ms
Remote clock offset: 1.671 ms

# Below is generated by plot.py at 2019-06-27 04:40:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 576.11 Mbit/s
95th percentile per-packet one-way delay: 149.707 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 576.11 Mbit/s
95th percentile per-packet one-way delay: 149.707 ms
Loss rate: 0.78%
```

Run 5: Report of Indigo-MusesC5 — Data Link

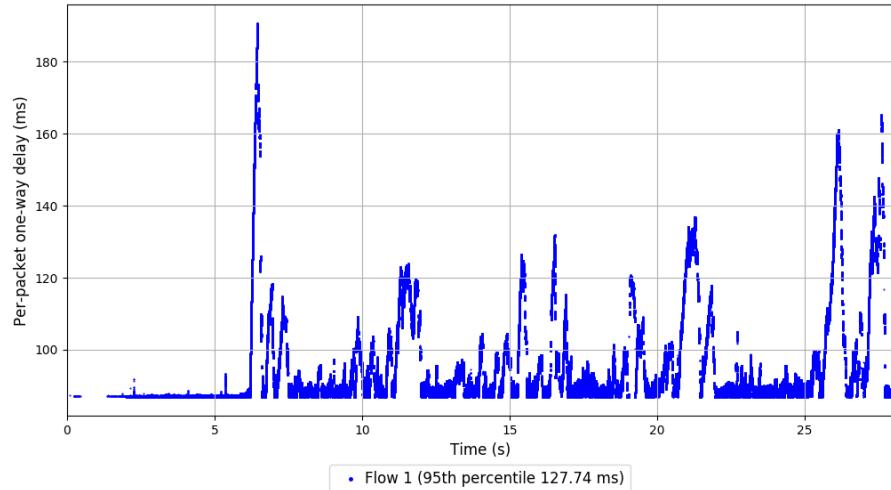
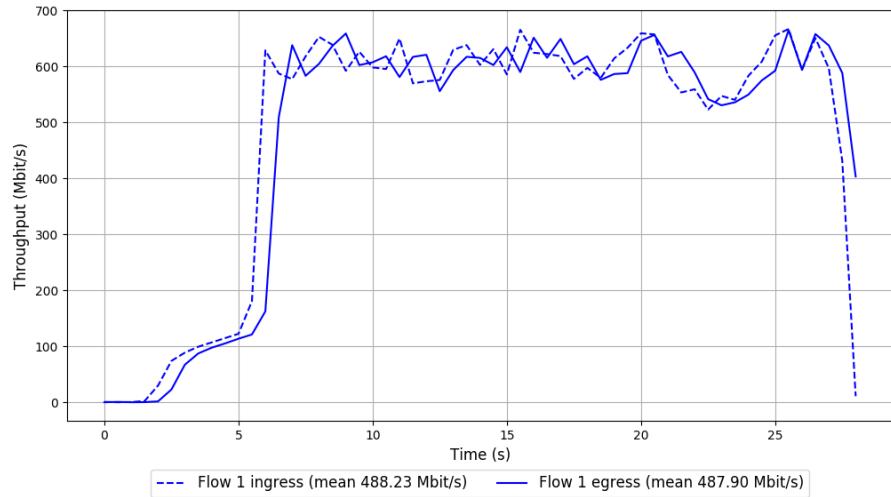


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 01:05:28
End at: 2019-06-27 01:05:58
Local clock offset: 19.514 ms
Remote clock offset: 17.595 ms

# Below is generated by plot.py at 2019-06-27 04:42:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 487.90 Mbit/s
95th percentile per-packet one-way delay: 127.744 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 487.90 Mbit/s
95th percentile per-packet one-way delay: 127.744 ms
Loss rate: 0.68%
```

Run 1: Report of Indigo-MusesD — Data Link

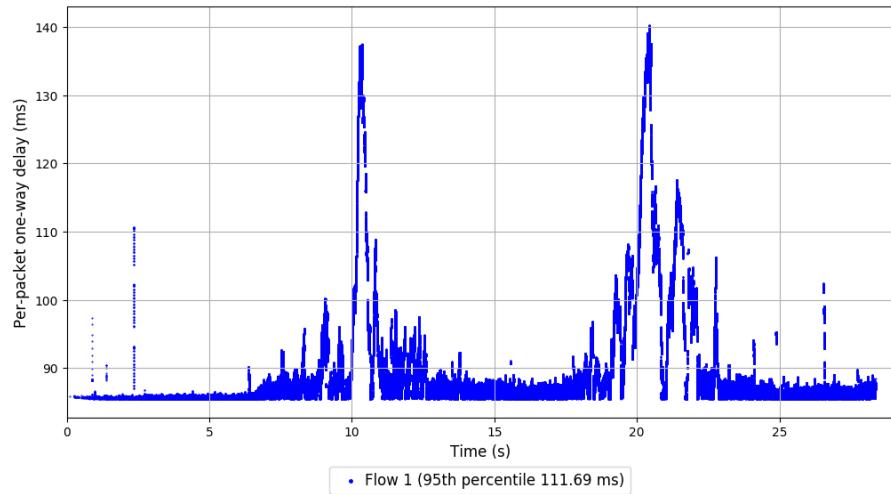
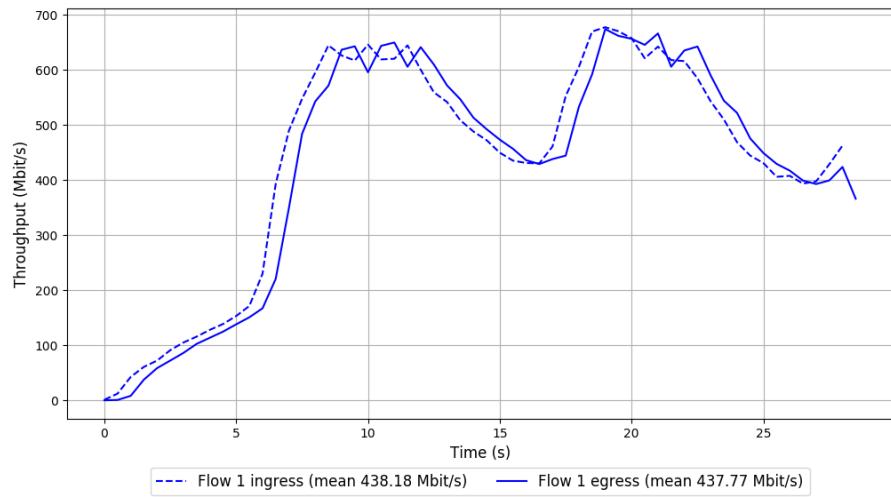


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 01:37:26
End at: 2019-06-27 01:37:56
Local clock offset: 24.958 ms
Remote clock offset: 23.433 ms

# Below is generated by plot.py at 2019-06-27 04:42:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 437.77 Mbit/s
95th percentile per-packet one-way delay: 111.693 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 437.77 Mbit/s
95th percentile per-packet one-way delay: 111.693 ms
Loss rate: 0.70%
```

Run 2: Report of Indigo-MusesD — Data Link

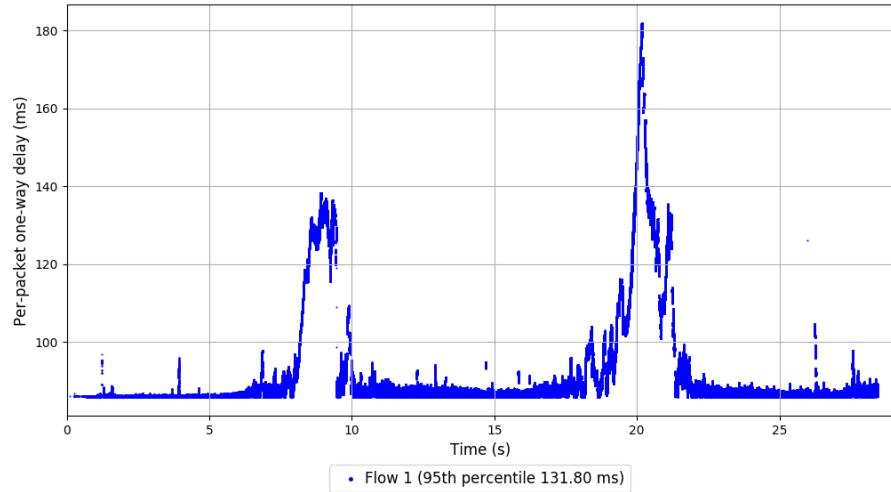
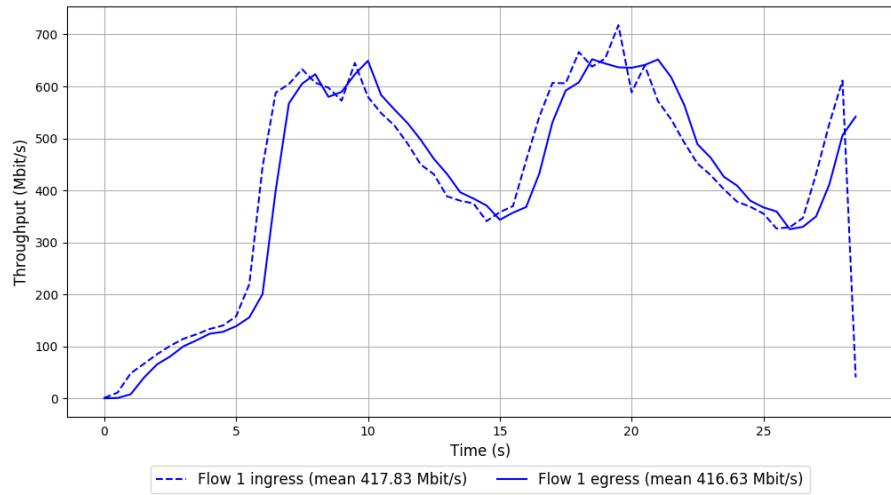


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 02:08:46
End at: 2019-06-27 02:09:16
Local clock offset: 18.531 ms
Remote clock offset: 17.193 ms

# Below is generated by plot.py at 2019-06-27 04:42:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 416.63 Mbit/s
95th percentile per-packet one-way delay: 131.796 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 416.63 Mbit/s
95th percentile per-packet one-way delay: 131.796 ms
Loss rate: 0.89%
```

Run 3: Report of Indigo-MusesD — Data Link

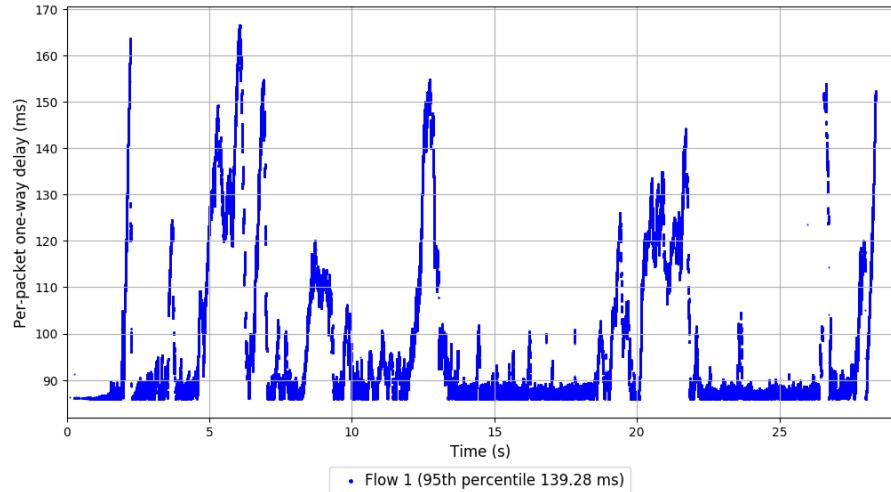
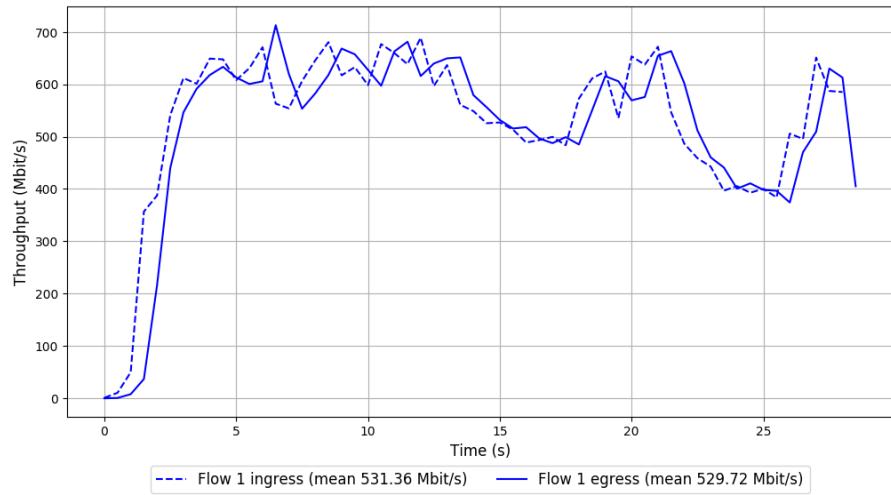


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 02:41:00
End at: 2019-06-27 02:41:30
Local clock offset: 8.237 ms
Remote clock offset: 7.586 ms

# Below is generated by plot.py at 2019-06-27 04:43:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 529.72 Mbit/s
95th percentile per-packet one-way delay: 139.275 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 529.72 Mbit/s
95th percentile per-packet one-way delay: 139.275 ms
Loss rate: 0.91%
```

Run 4: Report of Indigo-MusesD — Data Link

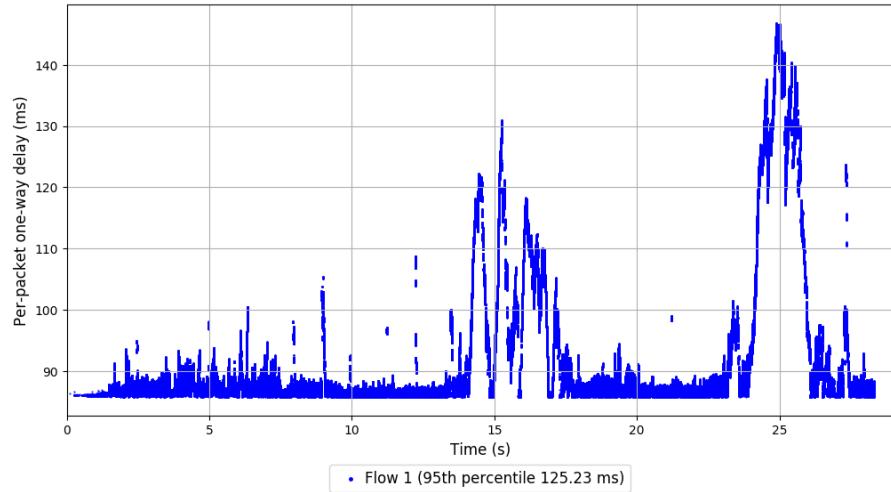
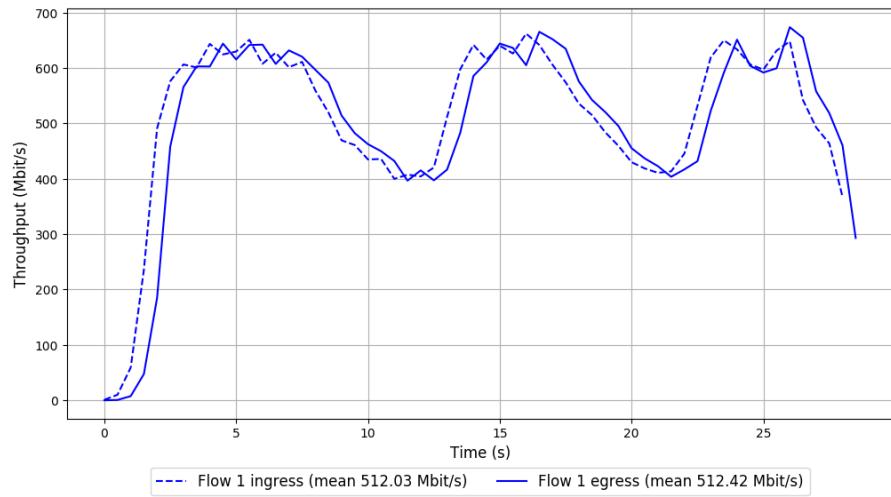


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 03:13:16
End at: 2019-06-27 03:13:46
Local clock offset: 2.505 ms
Remote clock offset: 2.303 ms

# Below is generated by plot.py at 2019-06-27 04:43:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 512.42 Mbit/s
95th percentile per-packet one-way delay: 125.230 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 512.42 Mbit/s
95th percentile per-packet one-way delay: 125.230 ms
Loss rate: 0.53%
```

Run 5: Report of Indigo-MusesD — Data Link

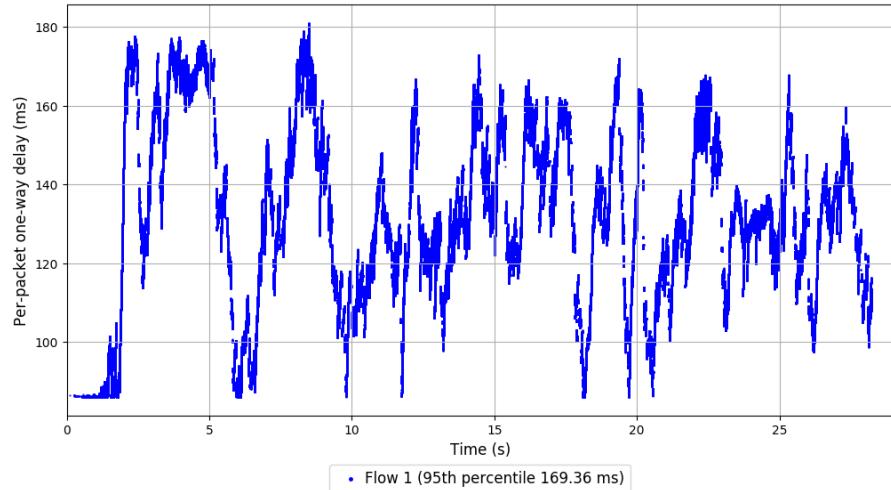
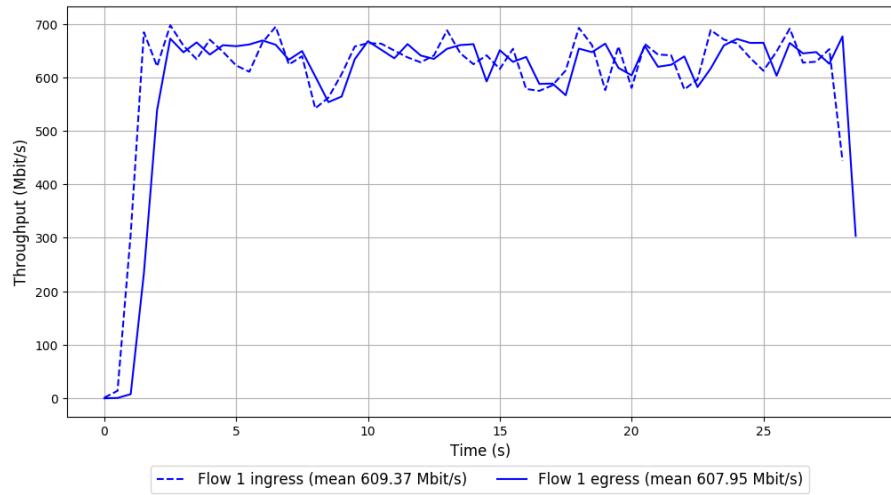


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 01:12:47
End at: 2019-06-27 01:13:17
Local clock offset: 16.957 ms
Remote clock offset: 15.929 ms

# Below is generated by plot.py at 2019-06-27 04:48:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 607.95 Mbit/s
95th percentile per-packet one-way delay: 169.363 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 607.95 Mbit/s
95th percentile per-packet one-way delay: 169.363 ms
Loss rate: 0.84%
```

Run 1: Report of Indigo-MusesT — Data Link

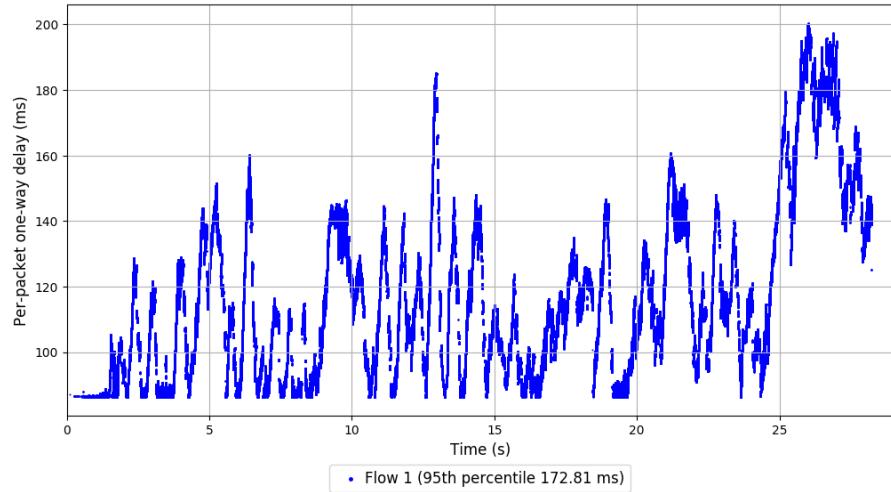
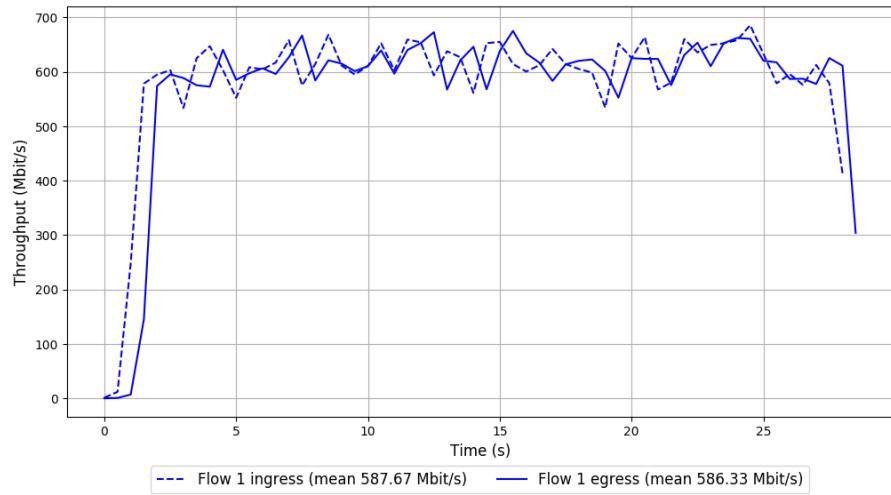


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 01:44:29
End at: 2019-06-27 01:44:59
Local clock offset: 31.916 ms
Remote clock offset: 29.411 ms

# Below is generated by plot.py at 2019-06-27 04:49:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 586.33 Mbit/s
95th percentile per-packet one-way delay: 172.814 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 586.33 Mbit/s
95th percentile per-packet one-way delay: 172.814 ms
Loss rate: 0.83%
```

Run 2: Report of Indigo-MusesT — Data Link

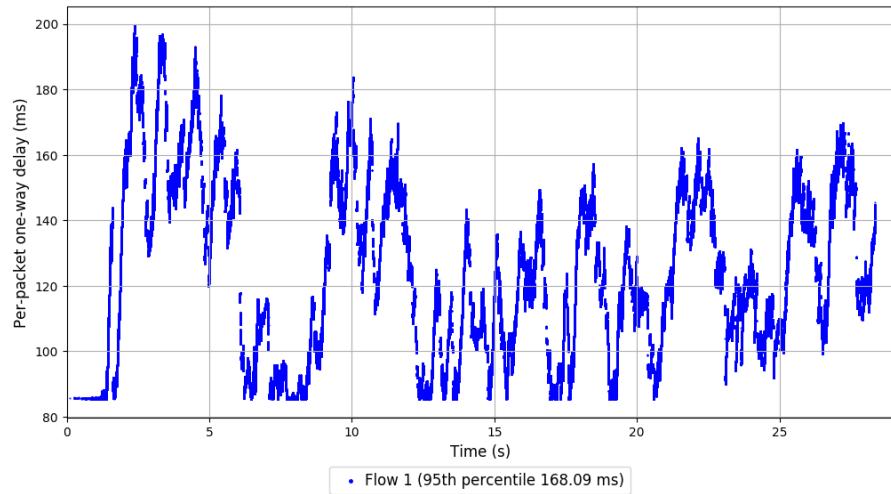
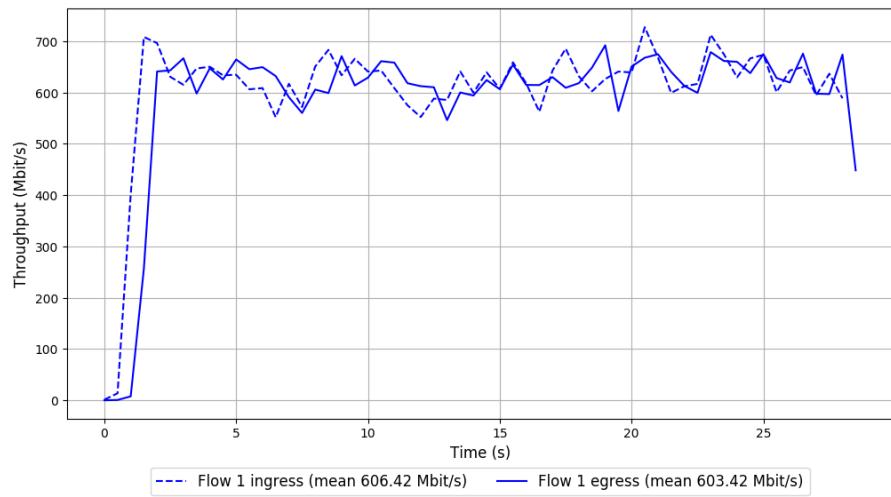


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 02:16:05
End at: 2019-06-27 02:16:35
Local clock offset: 16.928 ms
Remote clock offset: 16.064 ms

# Below is generated by plot.py at 2019-06-27 04:51:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 603.42 Mbit/s
95th percentile per-packet one-way delay: 168.087 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 603.42 Mbit/s
95th percentile per-packet one-way delay: 168.087 ms
Loss rate: 1.10%
```

Run 3: Report of Indigo-MusesT — Data Link

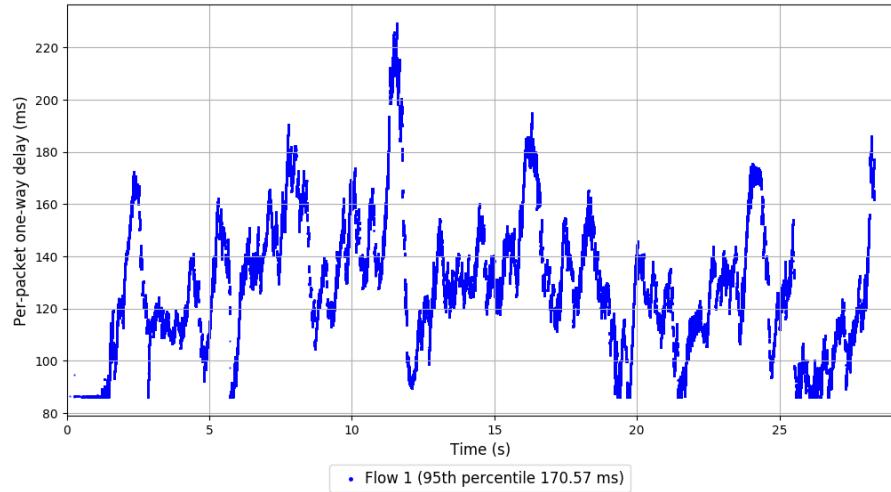
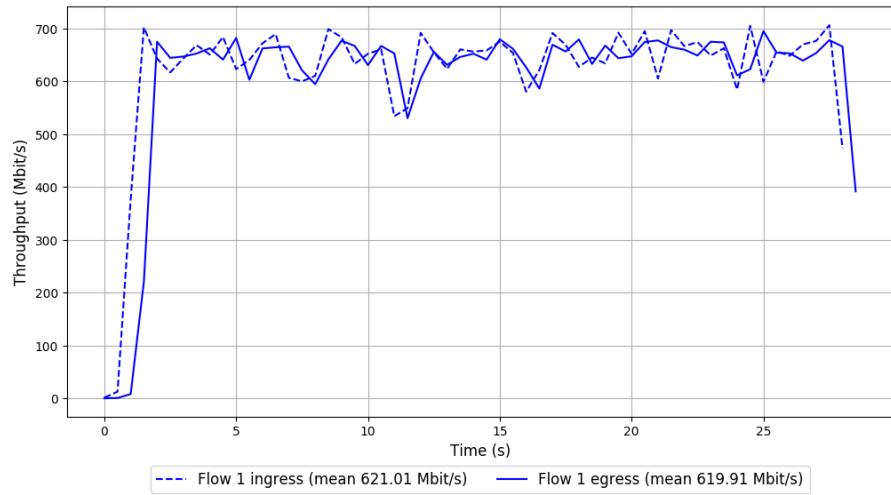


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 02:48:23
End at: 2019-06-27 02:48:53
Local clock offset: 5.638 ms
Remote clock offset: 4.993 ms

# Below is generated by plot.py at 2019-06-27 04:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 619.91 Mbit/s
95th percentile per-packet one-way delay: 170.568 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 619.91 Mbit/s
95th percentile per-packet one-way delay: 170.568 ms
Loss rate: 0.78%
```

Run 4: Report of Indigo-MusesT — Data Link

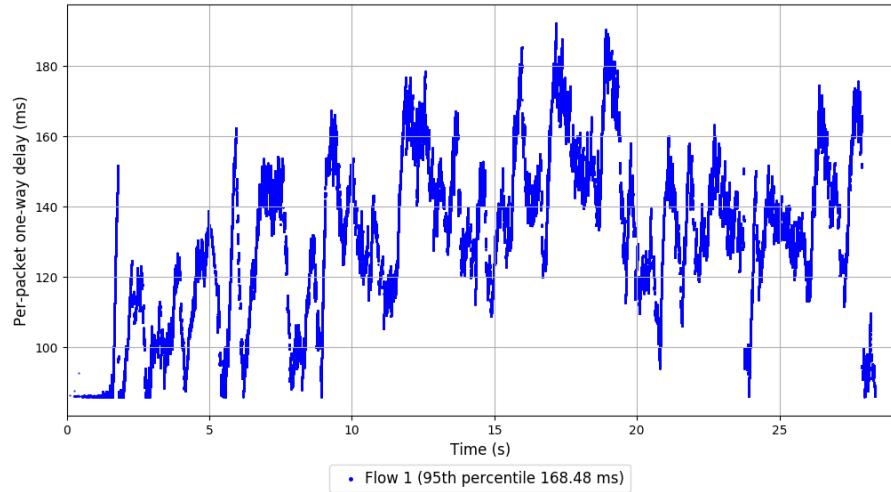
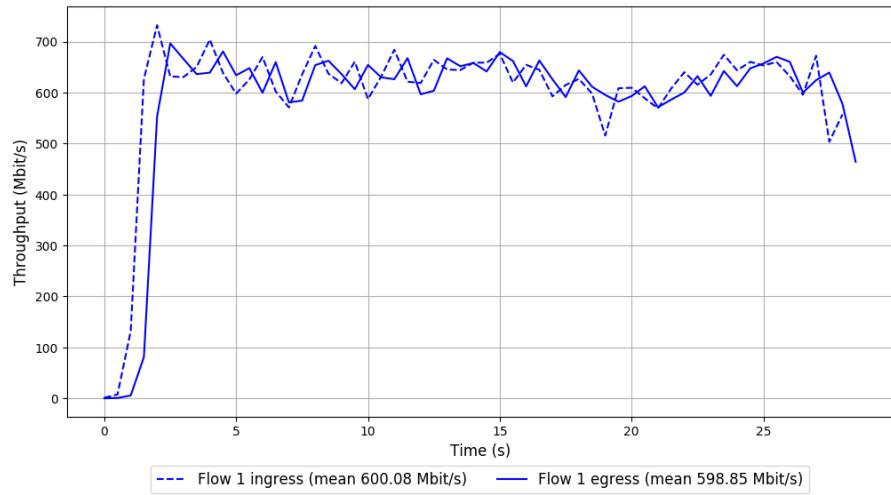


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 03:20:35
End at: 2019-06-27 03:21:05
Local clock offset: 1.636 ms
Remote clock offset: 1.696 ms

# Below is generated by plot.py at 2019-06-27 04:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 598.85 Mbit/s
95th percentile per-packet one-way delay: 168.483 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 598.85 Mbit/s
95th percentile per-packet one-way delay: 168.483 ms
Loss rate: 0.81%
```

Run 5: Report of Indigo-MusesT — Data Link

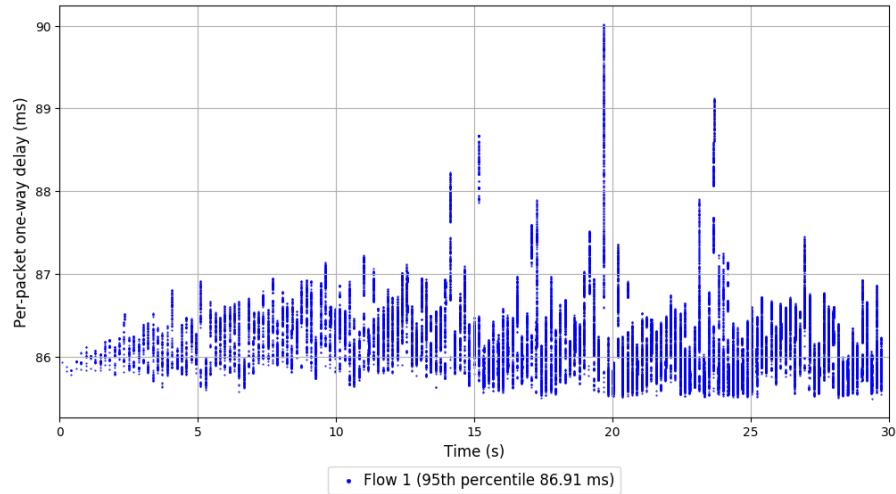
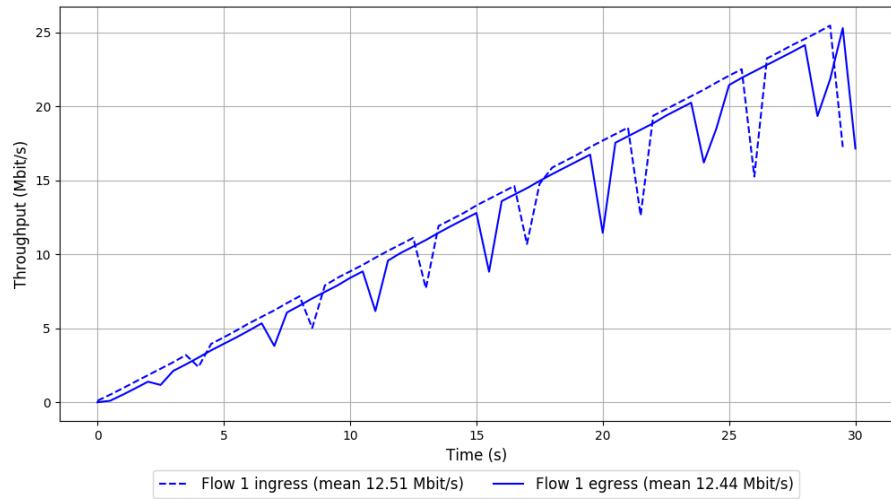


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-06-27 01:03:09
End at: 2019-06-27 01:03:39
Local clock offset: 16.454 ms
Remote clock offset: 15.499 ms

# Below is generated by plot.py at 2019-06-27 04:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 86.910 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 86.910 ms
Loss rate: 1.16%
```

Run 1: Report of LEDBAT — Data Link

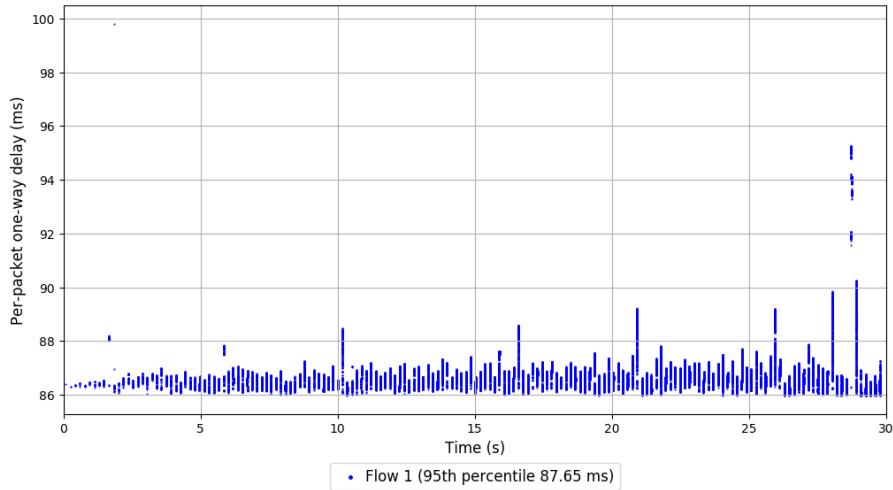
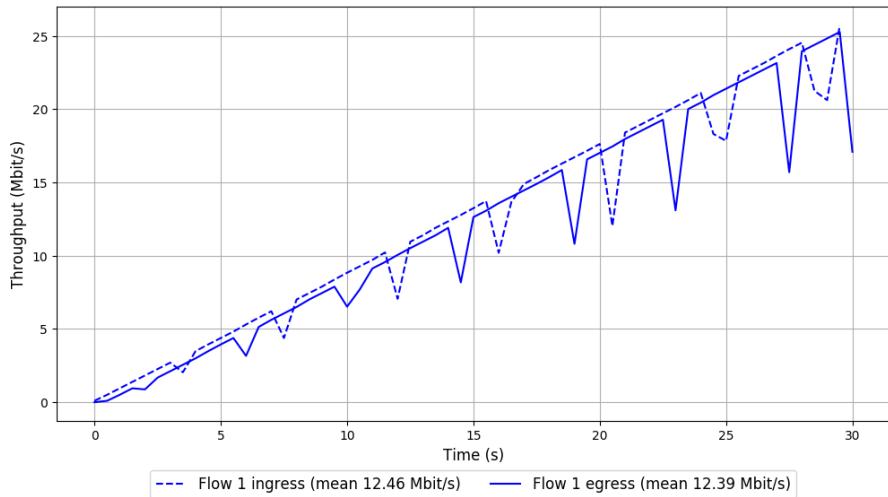


Run 2: Statistics of LEDBAT

```
Start at: 2019-06-27 01:35:06
End at: 2019-06-27 01:35:36
Local clock offset: 23.75 ms
Remote clock offset: 22.131 ms

# Below is generated by plot.py at 2019-06-27 04:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 87.646 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 87.646 ms
Loss rate: 1.16%
```

Run 2: Report of LEDBAT — Data Link

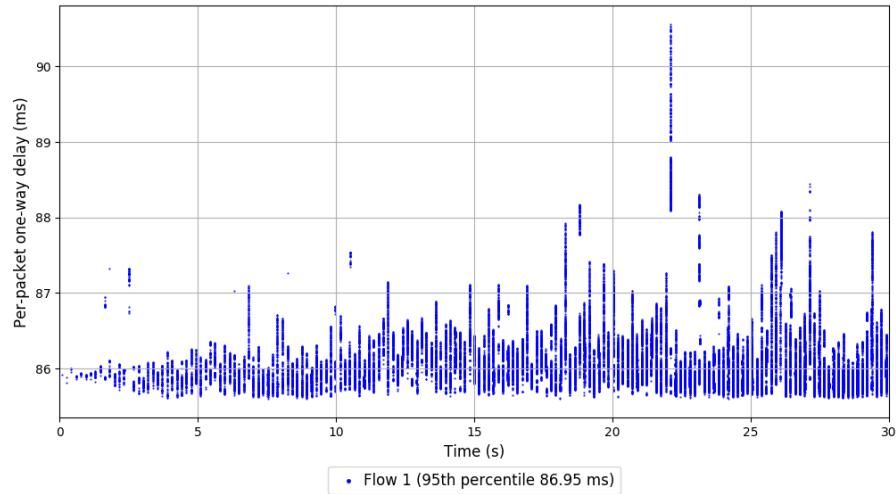
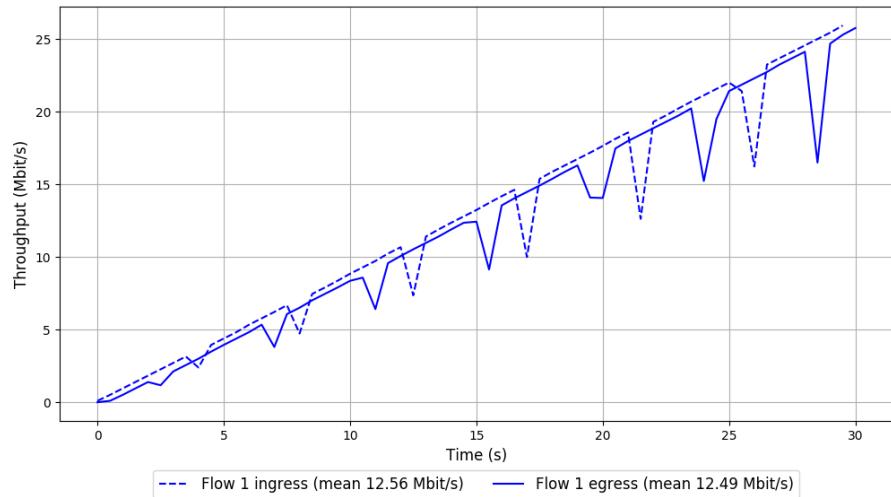


Run 3: Statistics of LEDBAT

```
Start at: 2019-06-27 02:06:27
End at: 2019-06-27 02:06:57
Local clock offset: 20.062 ms
Remote clock offset: 18.917 ms

# Below is generated by plot.py at 2019-06-27 04:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.49 Mbit/s
95th percentile per-packet one-way delay: 86.952 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.49 Mbit/s
95th percentile per-packet one-way delay: 86.952 ms
Loss rate: 1.15%
```

Run 3: Report of LEDBAT — Data Link

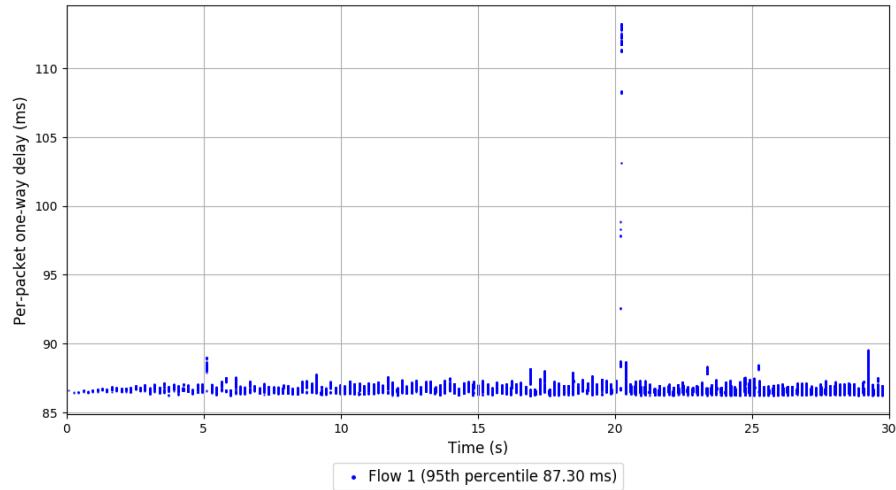
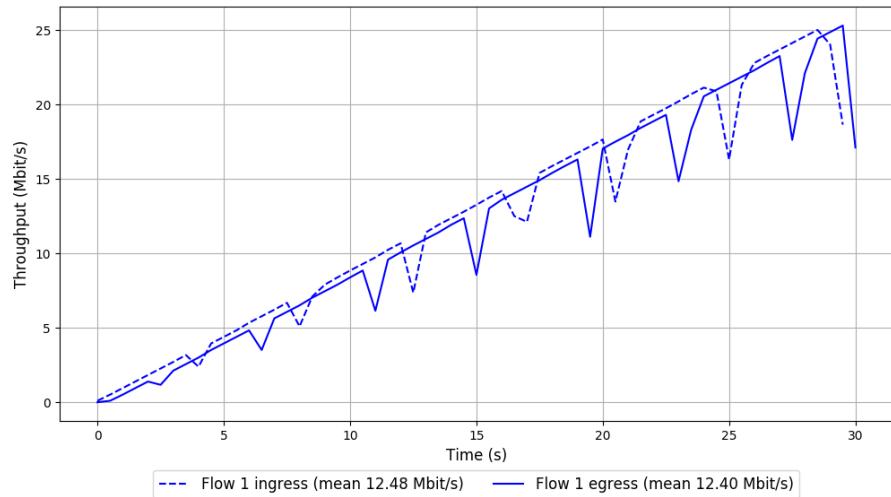


Run 4: Statistics of LEDBAT

```
Start at: 2019-06-27 02:38:41
End at: 2019-06-27 02:39:11
Local clock offset: 10.205 ms
Remote clock offset: 9.159 ms

# Below is generated by plot.py at 2019-06-27 04:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 87.303 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 87.303 ms
Loss rate: 1.16%
```

Run 4: Report of LEDBAT — Data Link

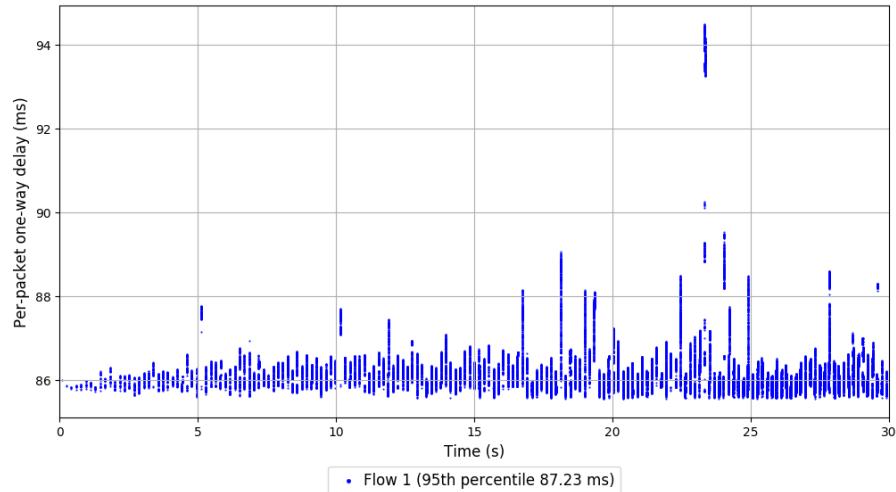
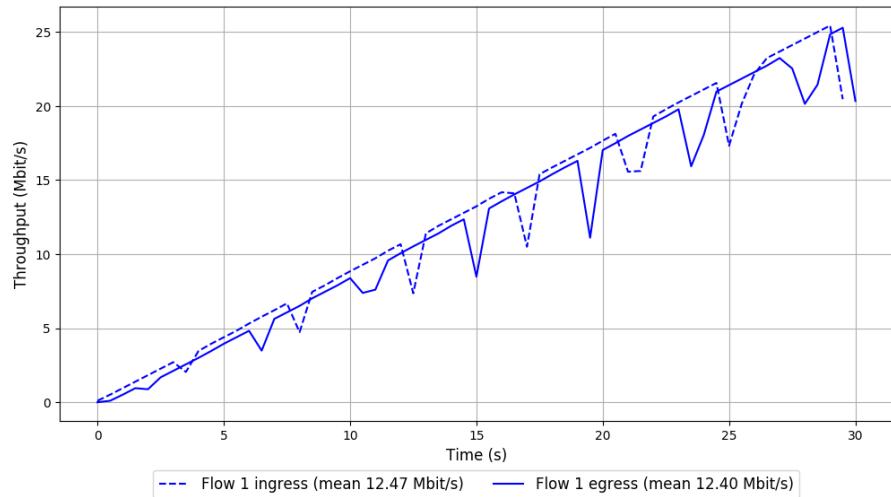


Run 5: Statistics of LEDBAT

```
Start at: 2019-06-27 03:10:56
End at: 2019-06-27 03:11:26
Local clock offset: 2.636 ms
Remote clock offset: 2.697 ms

# Below is generated by plot.py at 2019-06-27 04:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 87.232 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 87.232 ms
Loss rate: 1.16%
```

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-06-27 01:04:19

End at: 2019-06-27 01:04:49

Local clock offset: 18.21 ms

Remote clock offset: 18.003 ms

Run 1: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses_DecisionTree

Start at: 2019-06-27 01:36:17
End at: 2019-06-27 01:36:47
Local clock offset: 24.39 ms
Remote clock offset: 22.701 ms

Run 2: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses_DecisionTree

Start at: 2019-06-27 02:07:37
End at: 2019-06-27 02:08:07
Local clock offset: 19.801 ms
Remote clock offset: 17.871 ms

Run 3: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses_DecisionTree

Start at: 2019-06-27 02:39:52

End at: 2019-06-27 02:40:22

Local clock offset: 9.028 ms

Remote clock offset: 8.236 ms

Run 4: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses_DecisionTree

Start at: 2019-06-27 03:12:07

End at: 2019-06-27 03:12:37

Local clock offset: 2.426 ms

Remote clock offset: 2.483 ms

Run 5: Report of Muses_DecisionTree — Data Link

Figure is missing

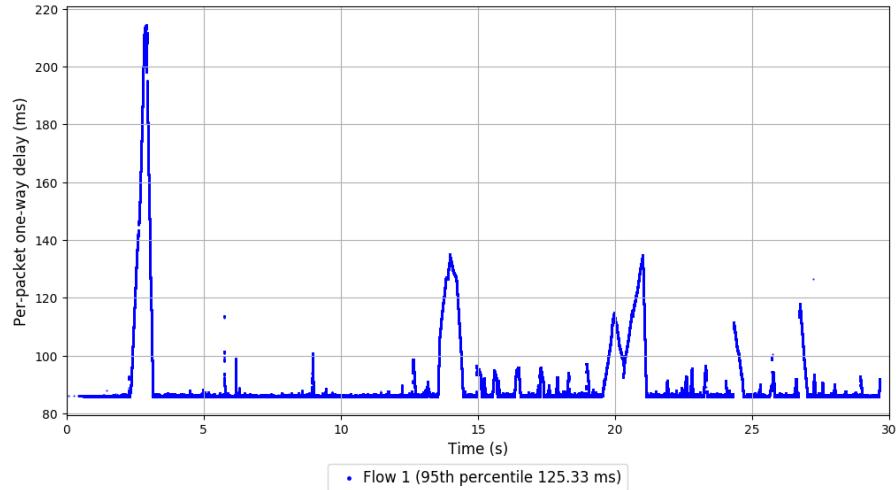
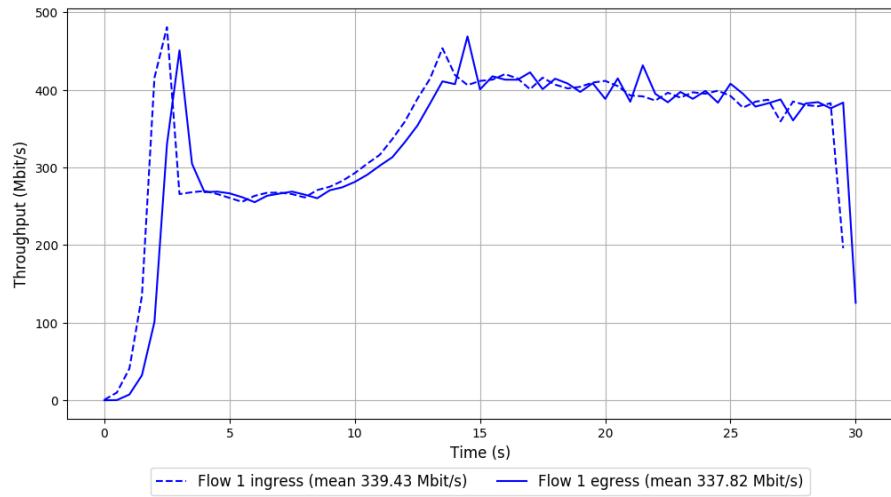
Figure is missing

Run 1: Statistics of PCC-Allegro

```
Start at: 2019-06-27 01:00:06
End at: 2019-06-27 01:00:36
Local clock offset: 11.209 ms
Remote clock offset: 10.253 ms

# Below is generated by plot.py at 2019-06-27 04:55:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.82 Mbit/s
95th percentile per-packet one-way delay: 125.333 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 337.82 Mbit/s
95th percentile per-packet one-way delay: 125.333 ms
Loss rate: 1.05%
```

Run 1: Report of PCC-Allegro — Data Link

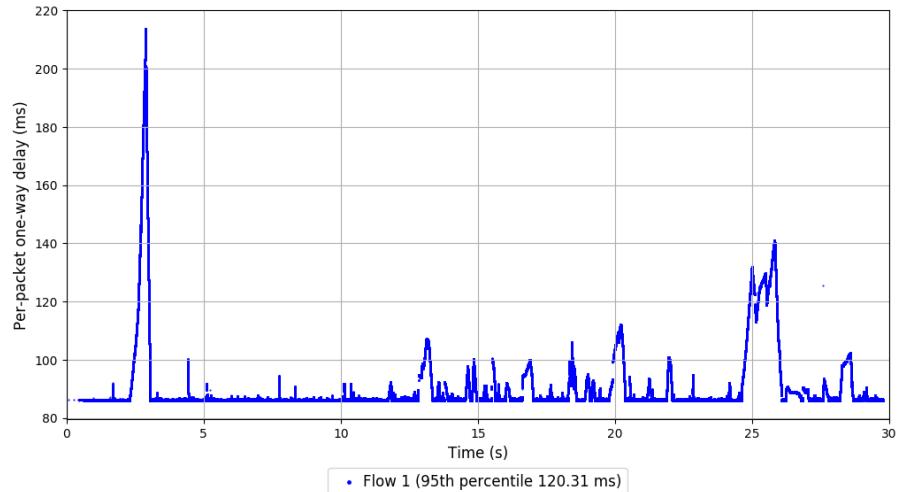
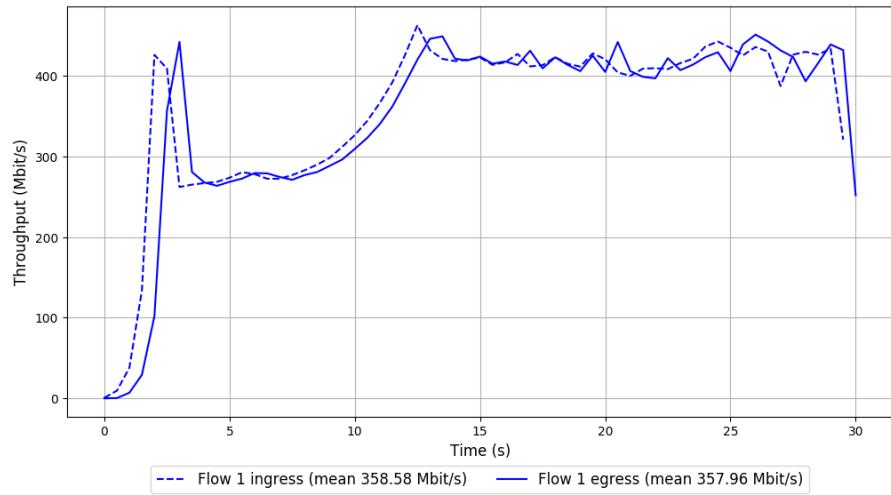


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-06-27 01:32:04
End at: 2019-06-27 01:32:34
Local clock offset: 22.466 ms
Remote clock offset: 21.017 ms

# Below is generated by plot.py at 2019-06-27 04:56:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 357.96 Mbit/s
95th percentile per-packet one-way delay: 120.312 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 357.96 Mbit/s
95th percentile per-packet one-way delay: 120.312 ms
Loss rate: 0.75%
```

Run 2: Report of PCC-Allegro — Data Link

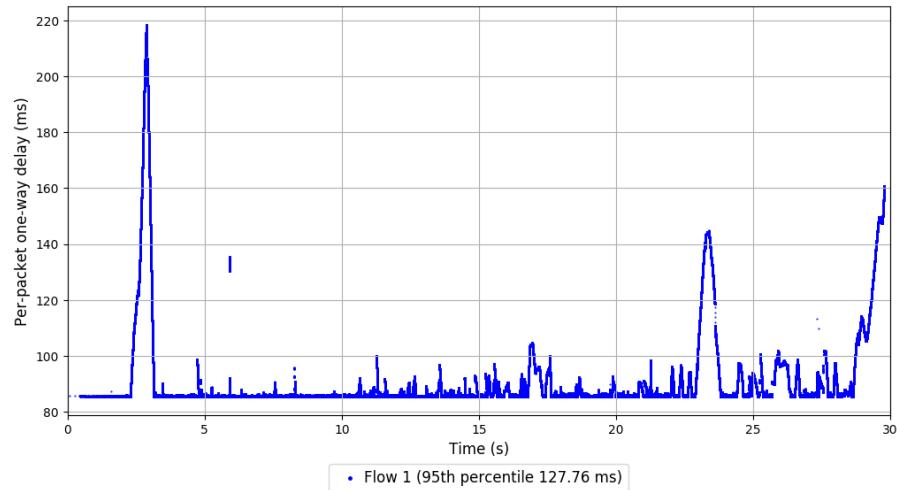
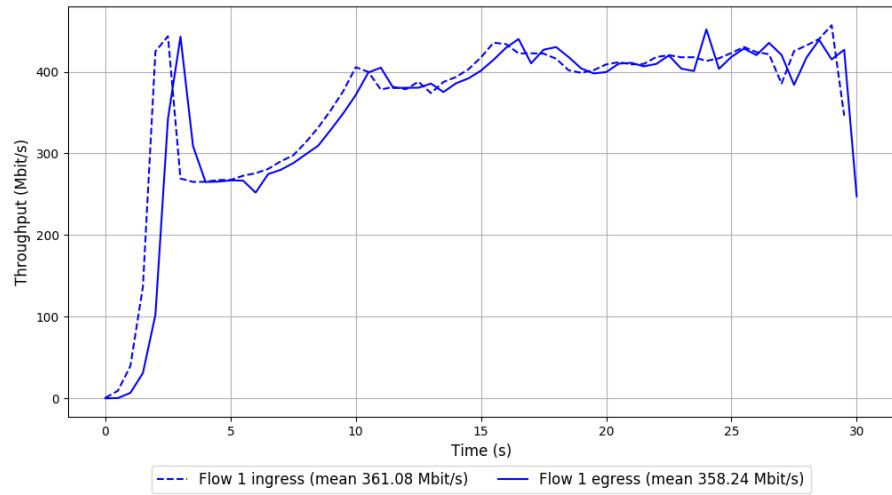


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-06-27 02:03:24
End at: 2019-06-27 02:03:54
Local clock offset: 23.794 ms
Remote clock offset: 22.624 ms

# Below is generated by plot.py at 2019-06-27 04:56:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 358.24 Mbit/s
95th percentile per-packet one-way delay: 127.764 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 358.24 Mbit/s
95th percentile per-packet one-way delay: 127.764 ms
Loss rate: 1.36%
```

Run 3: Report of PCC-Allegro — Data Link

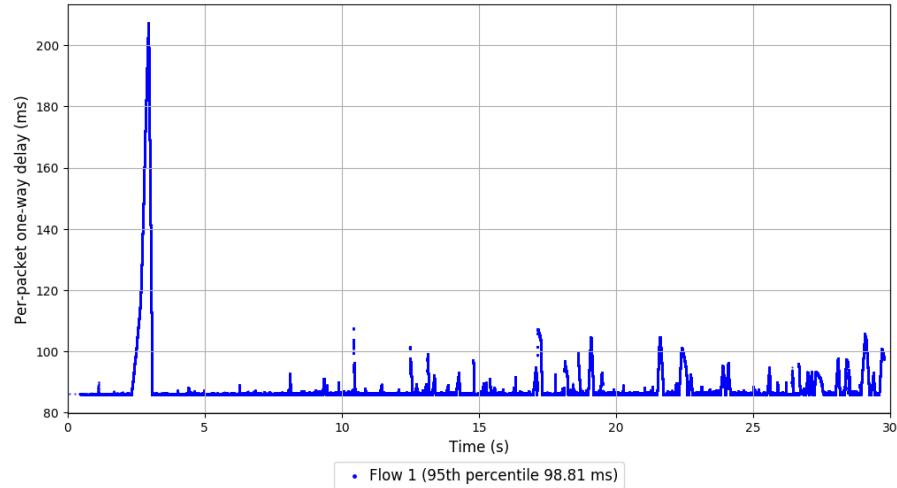
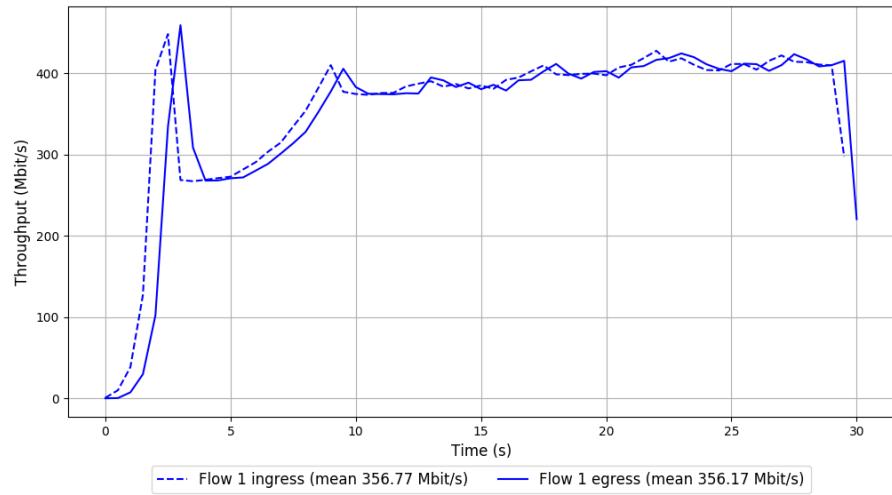


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-06-27 02:35:38
End at: 2019-06-27 02:36:08
Local clock offset: 13.249 ms
Remote clock offset: 12.316 ms

# Below is generated by plot.py at 2019-06-27 05:02:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.17 Mbit/s
95th percentile per-packet one-way delay: 98.810 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 356.17 Mbit/s
95th percentile per-packet one-way delay: 98.810 ms
Loss rate: 0.75%
```

Run 4: Report of PCC-Allegro — Data Link

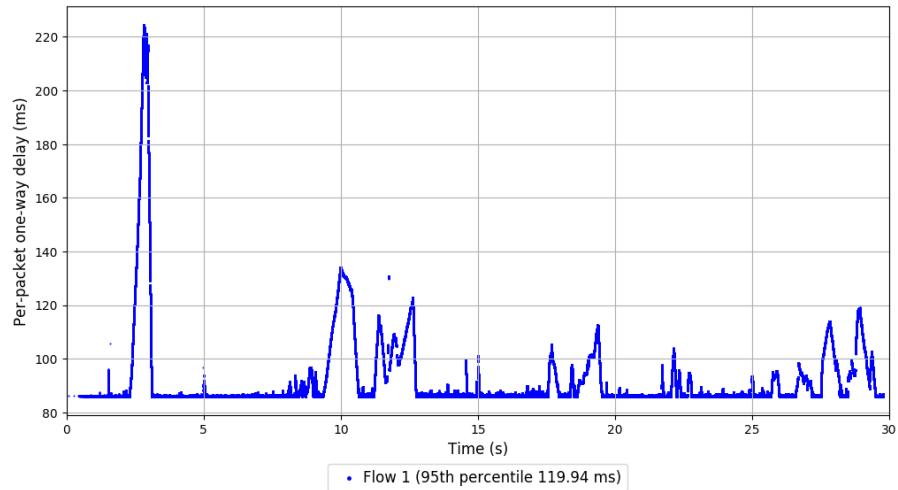
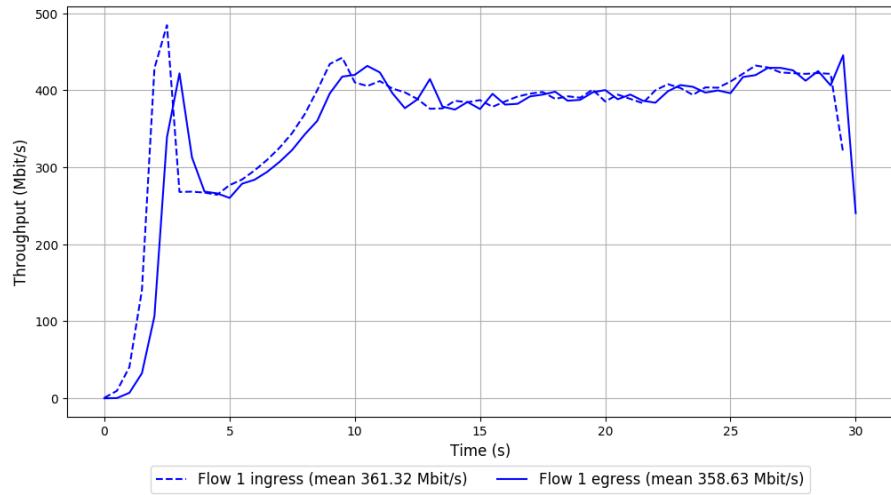


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-06-27 03:07:54
End at: 2019-06-27 03:08:24
Local clock offset: 3.813 ms
Remote clock offset: 3.592 ms

# Below is generated by plot.py at 2019-06-27 05:03:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 358.63 Mbit/s
95th percentile per-packet one-way delay: 119.938 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 358.63 Mbit/s
95th percentile per-packet one-way delay: 119.938 ms
Loss rate: 1.32%
```

Run 5: Report of PCC-Allegro — Data Link

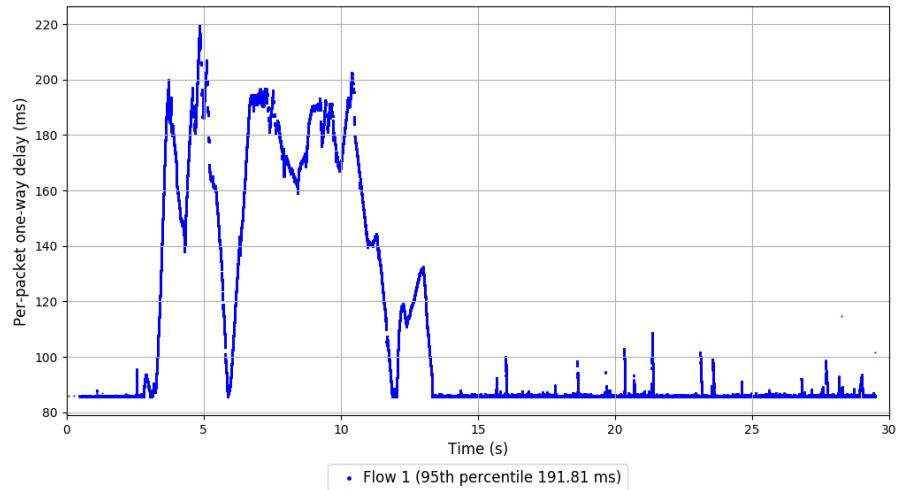
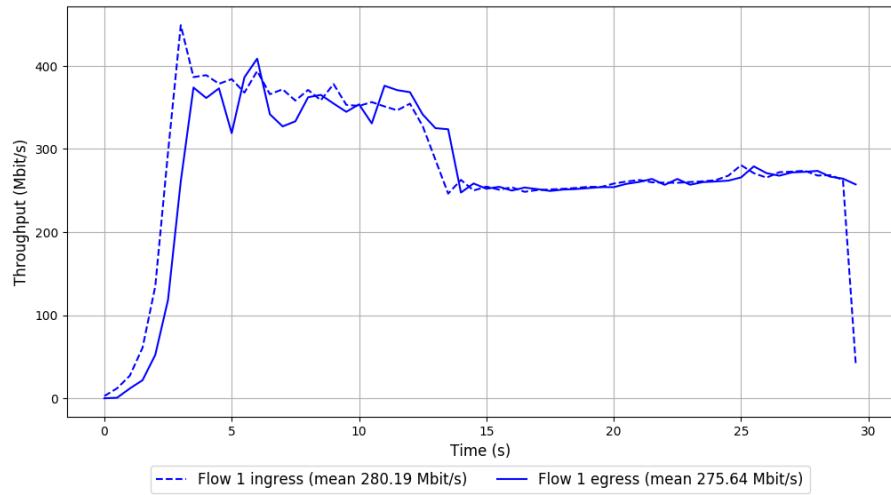


Run 1: Statistics of PCC-Expr

```
Start at: 2019-06-27 01:09:35
End at: 2019-06-27 01:10:05
Local clock offset: 14.492 ms
Remote clock offset: 14.028 ms

# Below is generated by plot.py at 2019-06-27 05:03:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 275.64 Mbit/s
95th percentile per-packet one-way delay: 191.811 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 275.64 Mbit/s
95th percentile per-packet one-way delay: 191.811 ms
Loss rate: 2.19%
```

Run 1: Report of PCC-Expr — Data Link

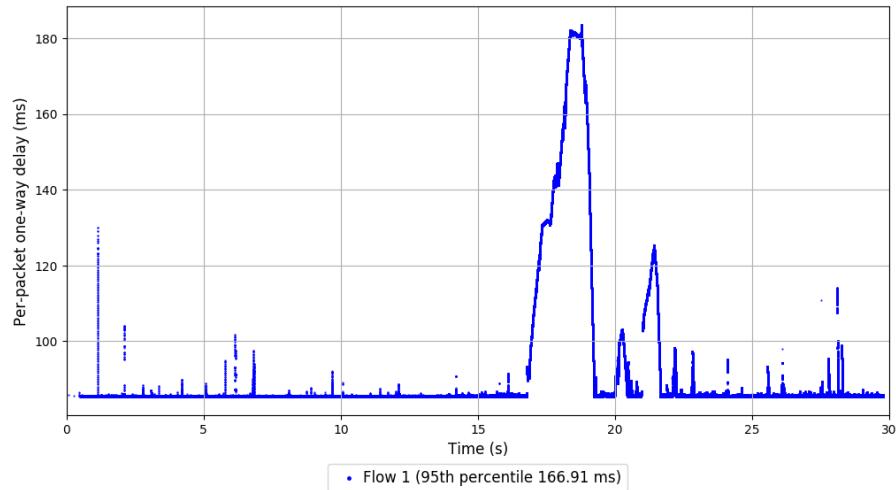
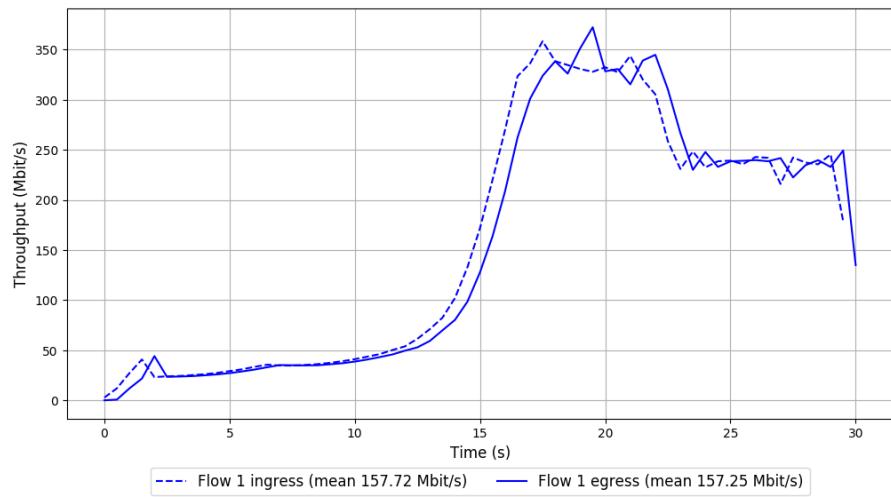


Run 2: Statistics of PCC-Expr

```
Start at: 2019-06-27 01:41:29
End at: 2019-06-27 01:41:59
Local clock offset: 28.441 ms
Remote clock offset: 26.74 ms

# Below is generated by plot.py at 2019-06-27 05:03:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.25 Mbit/s
95th percentile per-packet one-way delay: 166.911 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 157.25 Mbit/s
95th percentile per-packet one-way delay: 166.911 ms
Loss rate: 0.87%
```

Run 2: Report of PCC-Expr — Data Link

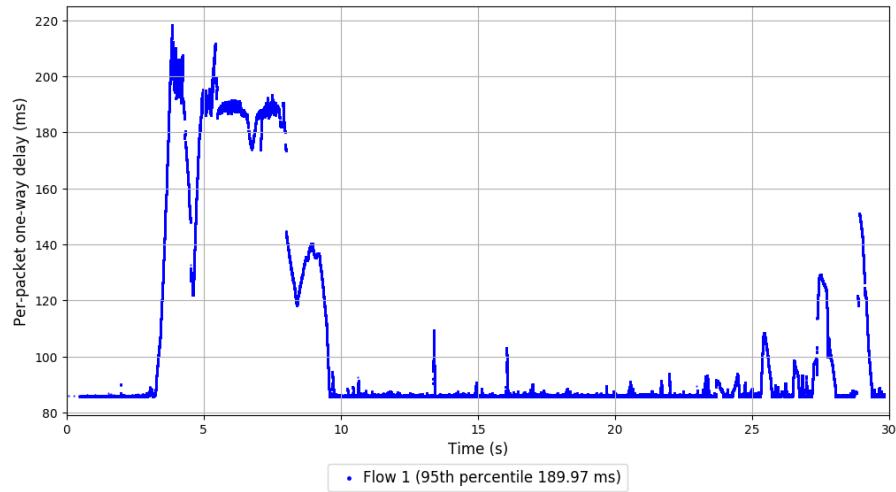
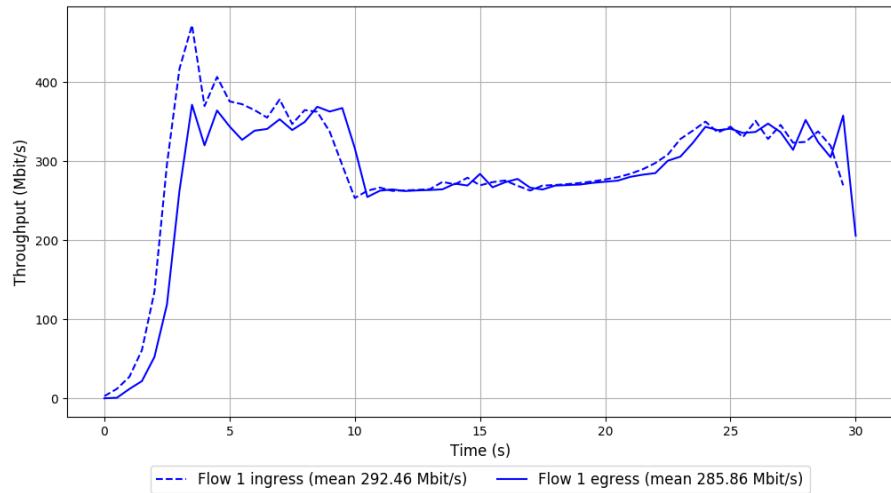


Run 3: Statistics of PCC-Expr

```
Start at: 2019-06-27 02:12:52
End at: 2019-06-27 02:13:22
Local clock offset: 16.783 ms
Remote clock offset: 15.946 ms

# Below is generated by plot.py at 2019-06-27 05:03:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.86 Mbit/s
95th percentile per-packet one-way delay: 189.968 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 285.86 Mbit/s
95th percentile per-packet one-way delay: 189.968 ms
Loss rate: 2.82%
```

Run 3: Report of PCC-Expr — Data Link

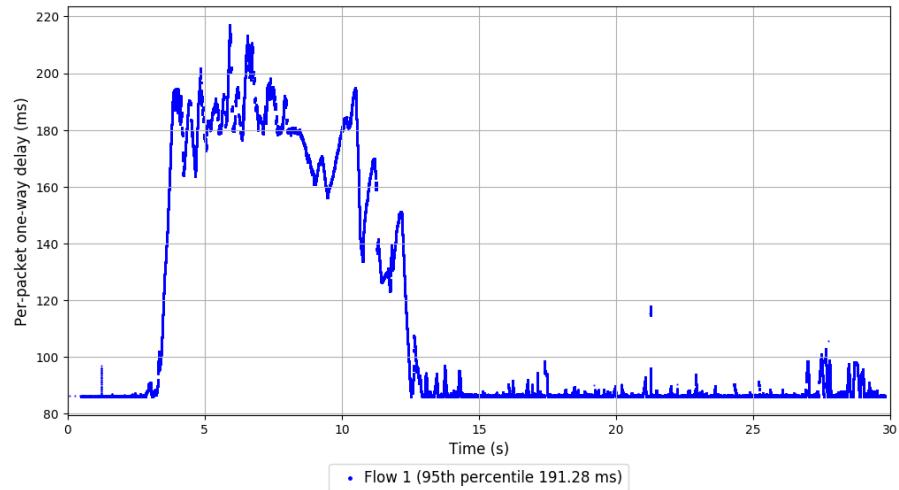
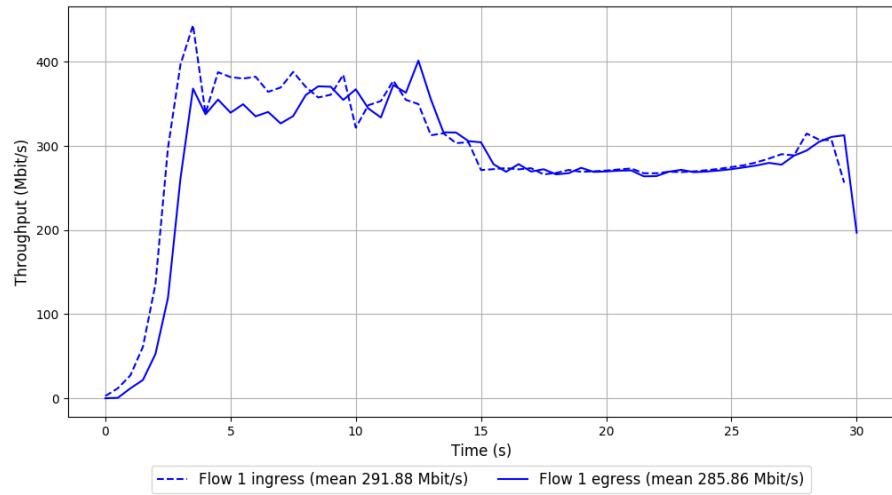


Run 4: Statistics of PCC-Expr

```
Start at: 2019-06-27 02:45:08
End at: 2019-06-27 02:45:38
Local clock offset: 6.349 ms
Remote clock offset: 5.74 ms

# Below is generated by plot.py at 2019-06-27 05:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.86 Mbit/s
95th percentile per-packet one-way delay: 191.276 ms
Loss rate: 2.63%
-- Flow 1:
Average throughput: 285.86 Mbit/s
95th percentile per-packet one-way delay: 191.276 ms
Loss rate: 2.63%
```

Run 4: Report of PCC-Expr — Data Link

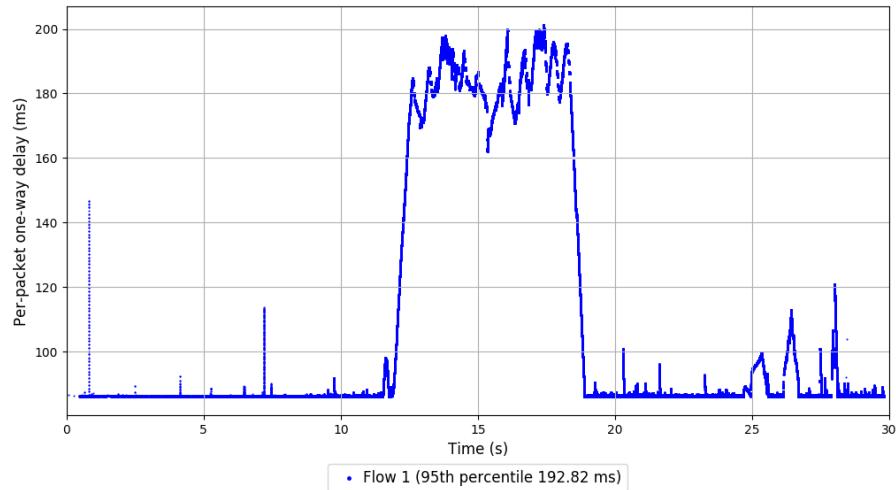
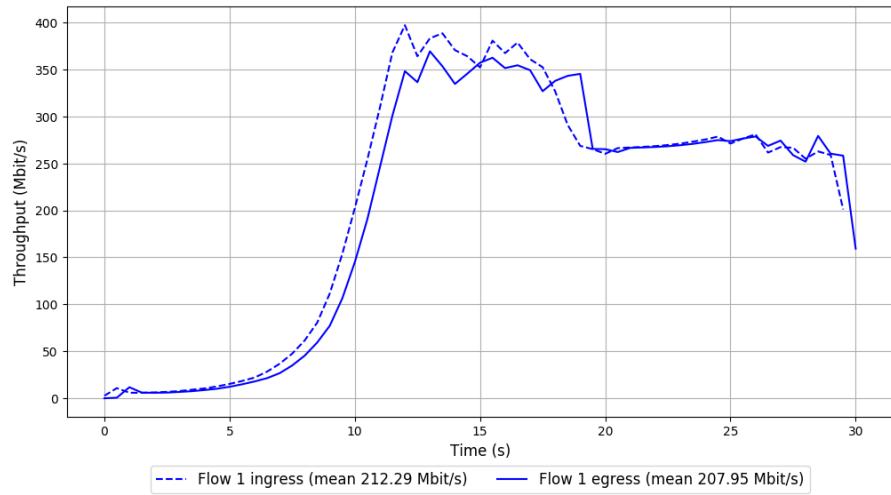


Run 5: Statistics of PCC-Expr

```
Start at: 2019-06-27 03:17:29
End at: 2019-06-27 03:17:59
Local clock offset: 1.985 ms
Remote clock offset: 1.812 ms

# Below is generated by plot.py at 2019-06-27 05:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.95 Mbit/s
95th percentile per-packet one-way delay: 192.823 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 207.95 Mbit/s
95th percentile per-packet one-way delay: 192.823 ms
Loss rate: 2.61%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

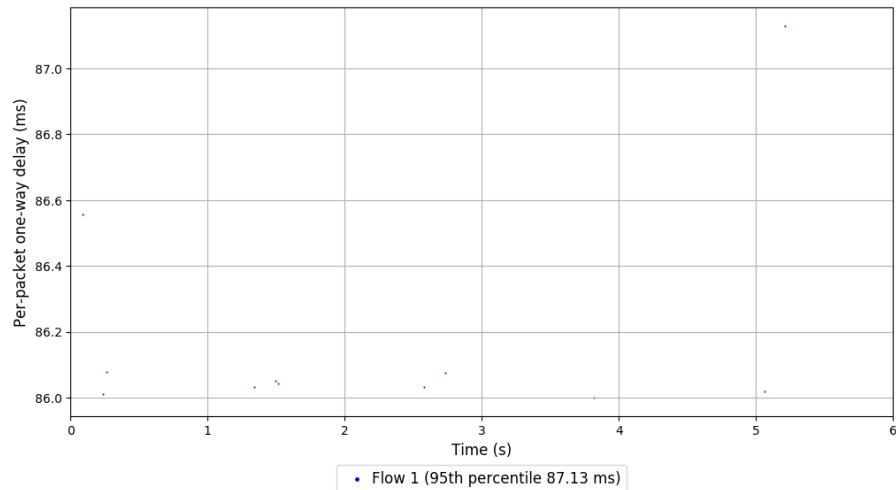
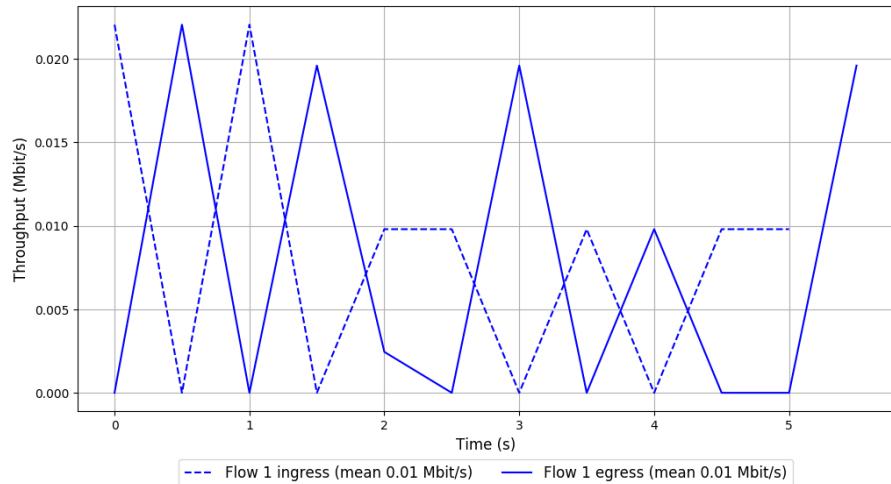
Start at: 2019-06-27 01:08:26

End at: 2019-06-27 01:08:56

Local clock offset: 14.741 ms

Remote clock offset: 14.167 ms

Run 1: Report of QUIC Cubic — Data Link

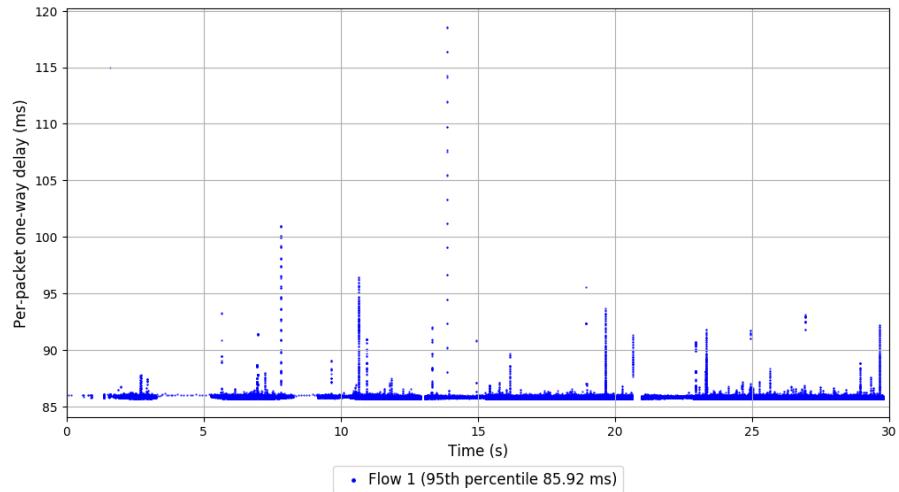
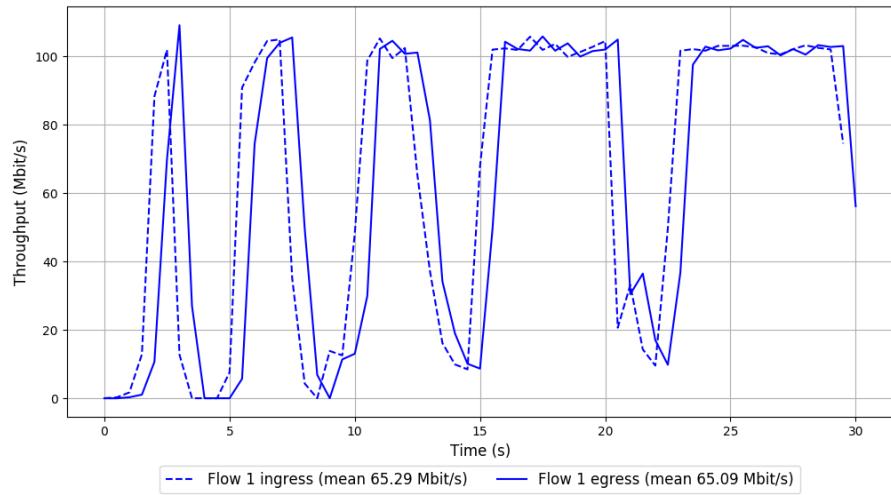


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-06-27 01:40:16
End at: 2019-06-27 01:40:46
Local clock offset: 27.312 ms
Remote clock offset: 25.653 ms

# Below is generated by plot.py at 2019-06-27 05:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.09 Mbit/s
95th percentile per-packet one-way delay: 85.924 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 65.09 Mbit/s
95th percentile per-packet one-way delay: 85.924 ms
Loss rate: 0.89%
```

Run 2: Report of QUIC Cubic — Data Link

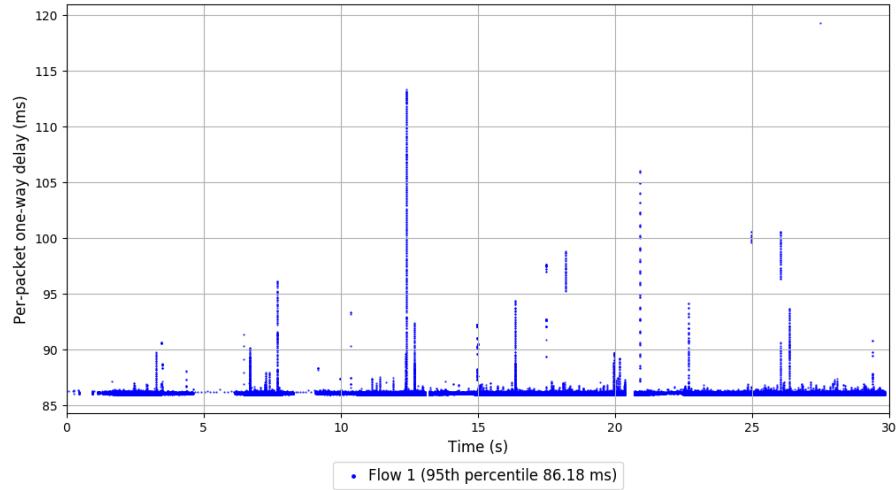
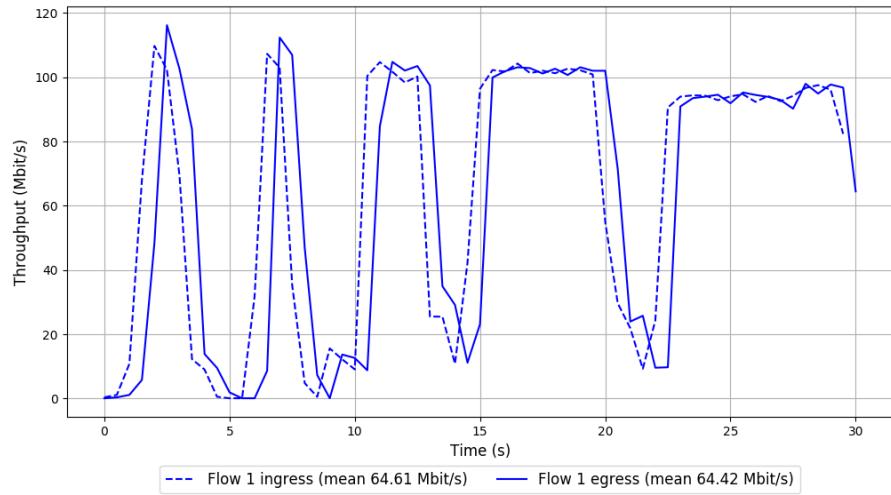


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-06-27 02:11:39
End at: 2019-06-27 02:12:09
Local clock offset: 17.659 ms
Remote clock offset: 16.205 ms

# Below is generated by plot.py at 2019-06-27 05:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.42 Mbit/s
95th percentile per-packet one-way delay: 86.180 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 64.42 Mbit/s
95th percentile per-packet one-way delay: 86.180 ms
Loss rate: 0.86%
```

Run 3: Report of QUIC Cubic — Data Link

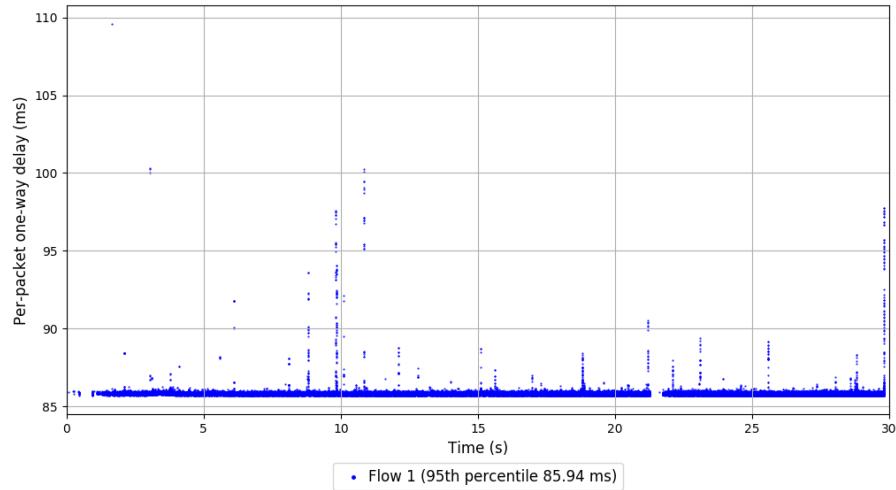
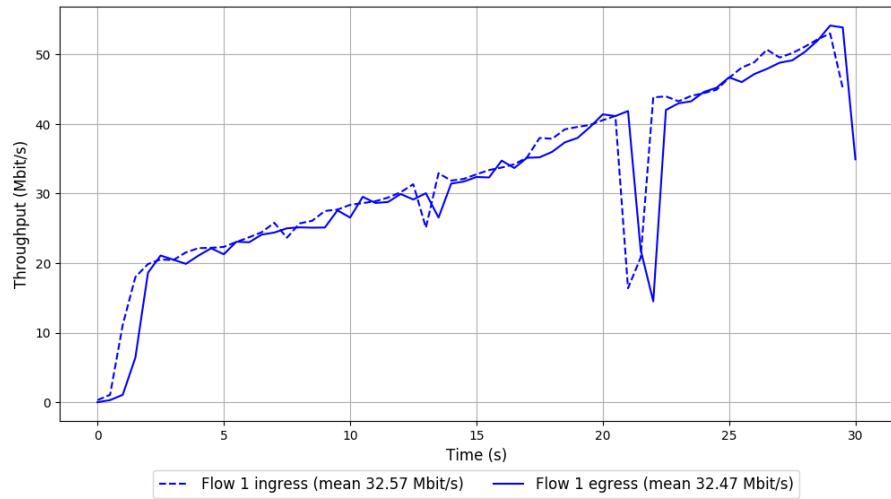


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-06-27 02:43:57
End at: 2019-06-27 02:44:27
Local clock offset: 6.222 ms
Remote clock offset: 6.201 ms

# Below is generated by plot.py at 2019-06-27 05:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.47 Mbit/s
95th percentile per-packet one-way delay: 85.938 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 32.47 Mbit/s
95th percentile per-packet one-way delay: 85.938 ms
Loss rate: 0.88%
```

Run 4: Report of QUIC Cubic — Data Link

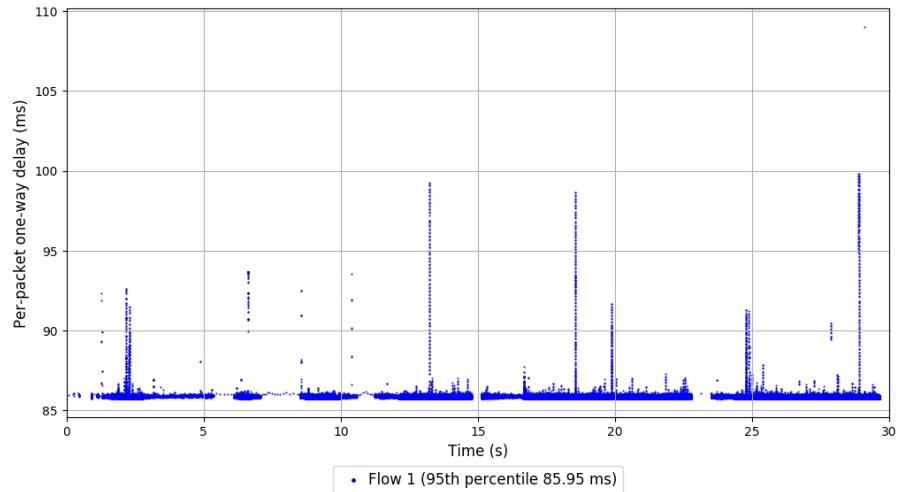
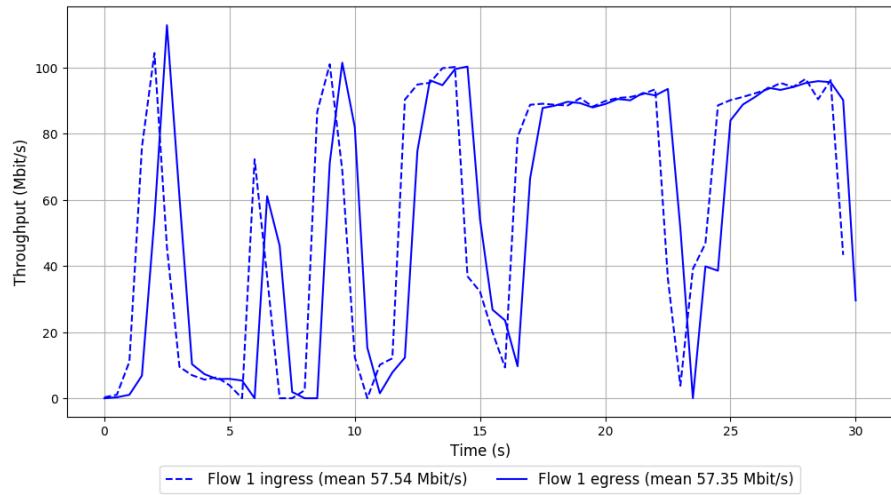


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-06-27 03:16:16
End at: 2019-06-27 03:16:46
Local clock offset: 2.129 ms
Remote clock offset: 1.965 ms

# Below is generated by plot.py at 2019-06-27 05:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.35 Mbit/s
95th percentile per-packet one-way delay: 85.950 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 57.35 Mbit/s
95th percentile per-packet one-way delay: 85.950 ms
Loss rate: 0.90%
```

Run 5: Report of QUIC Cubic — Data Link

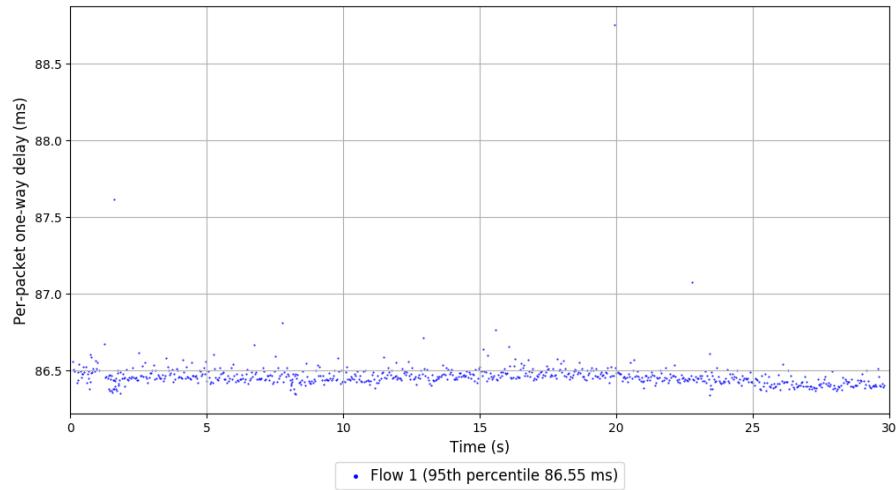
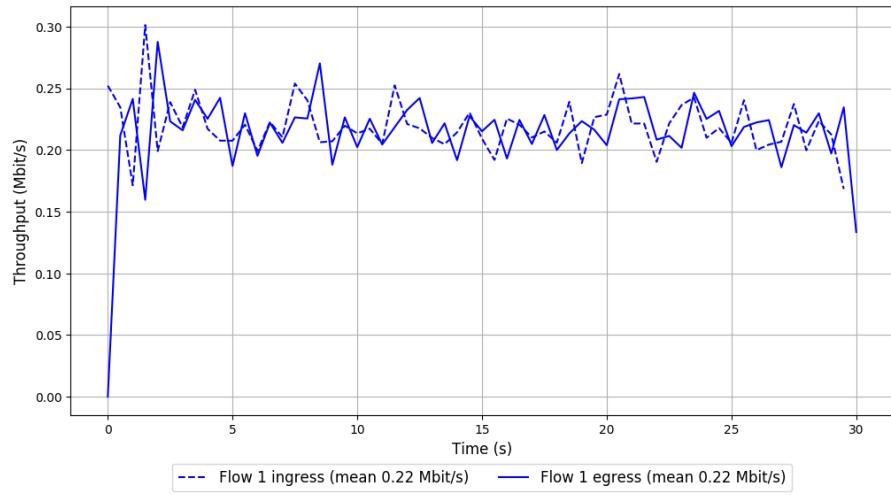


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-06-27 01:16:58
End at: 2019-06-27 01:17:28
Local clock offset: 22.217 ms
Remote clock offset: 20.671 ms

# Below is generated by plot.py at 2019-06-27 05:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.545 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.545 ms
Loss rate: 0.52%
```

Run 1: Report of SCReAM — Data Link

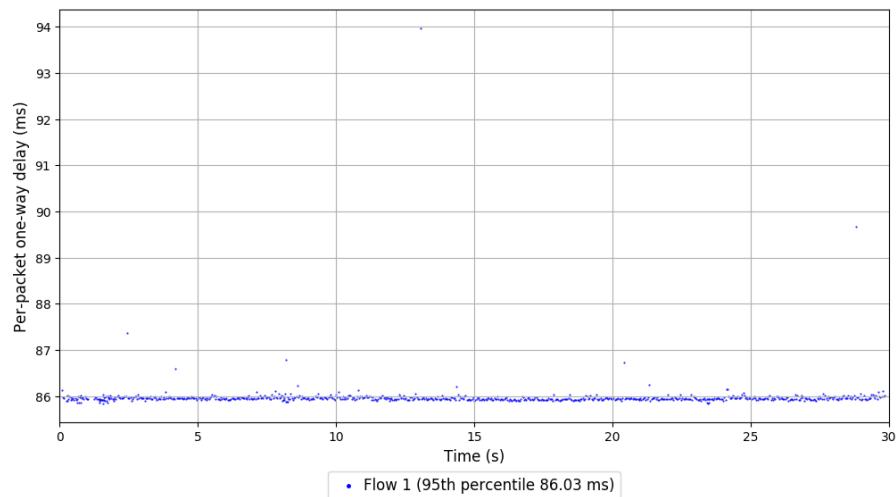
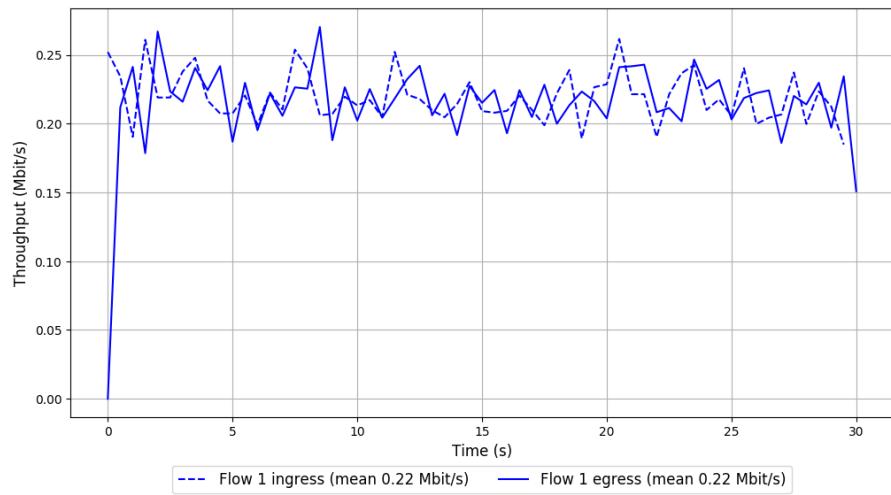


Run 2: Statistics of SCReAM

```
Start at: 2019-06-27 01:48:47
End at: 2019-06-27 01:49:17
Local clock offset: 36.385 ms
Remote clock offset: 33.863 ms

# Below is generated by plot.py at 2019-06-27 05:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.031 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.031 ms
Loss rate: 0.51%
```

Run 2: Report of SCReAM — Data Link

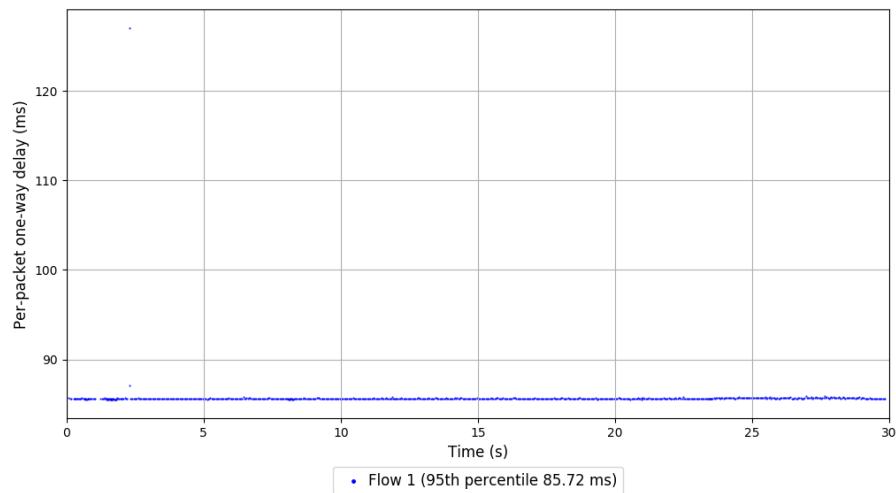
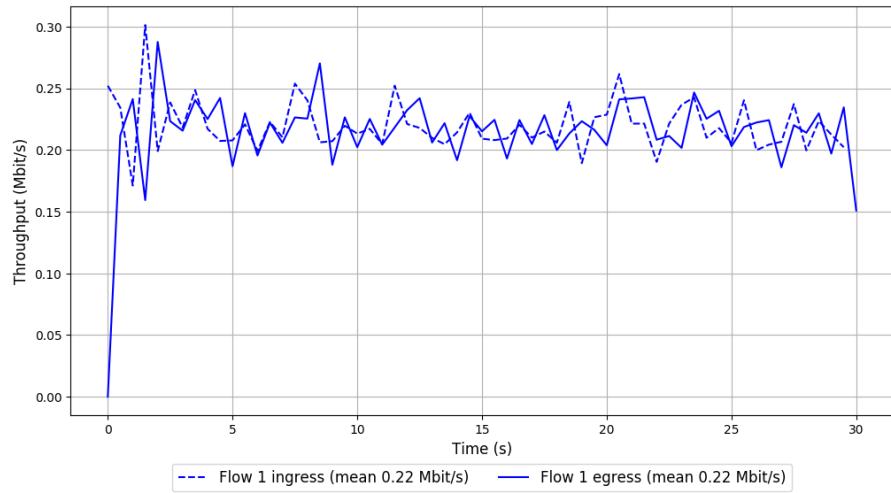


Run 3: Statistics of SCReAM

```
Start at: 2019-06-27 02:20:27
End at: 2019-06-27 02:20:57
Local clock offset: 17.936 ms
Remote clock offset: 17.012 ms

# Below is generated by plot.py at 2019-06-27 05:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.724 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.724 ms
Loss rate: 0.64%
```

Run 3: Report of SCReAM — Data Link

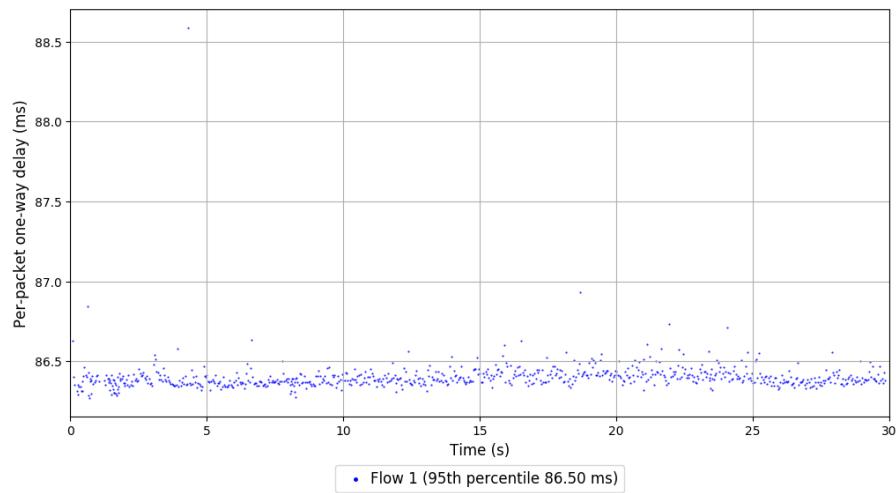
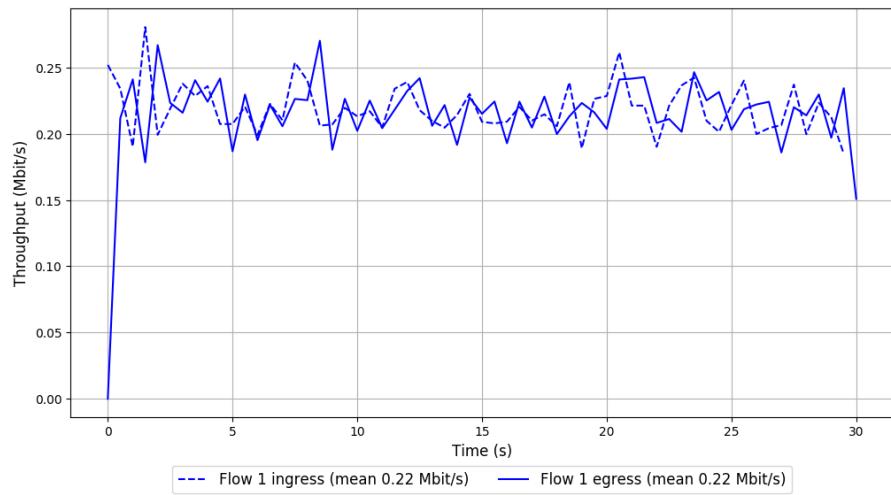


Run 4: Statistics of SCReAM

```
Start at: 2019-06-27 02:52:45
End at: 2019-06-27 02:53:15
Local clock offset: 4.877 ms
Remote clock offset: 4.575 ms

# Below is generated by plot.py at 2019-06-27 05:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.505 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.505 ms
Loss rate: 0.51%
```

Run 4: Report of SCReAM — Data Link

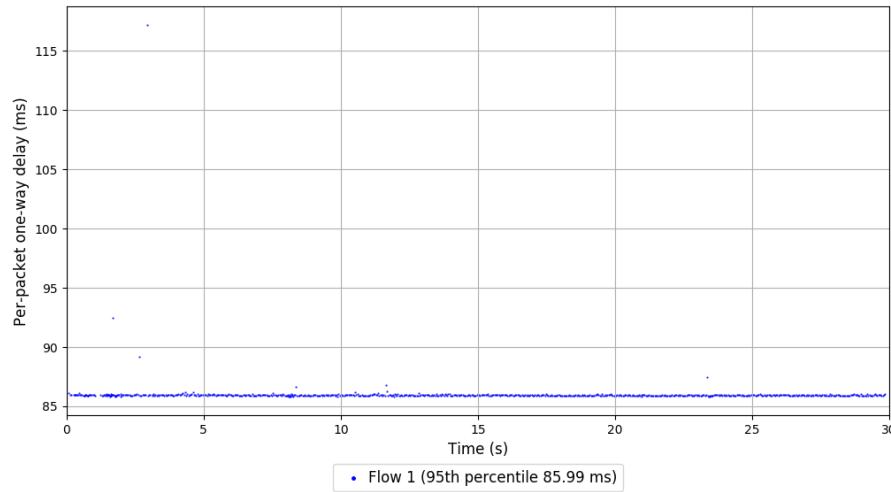
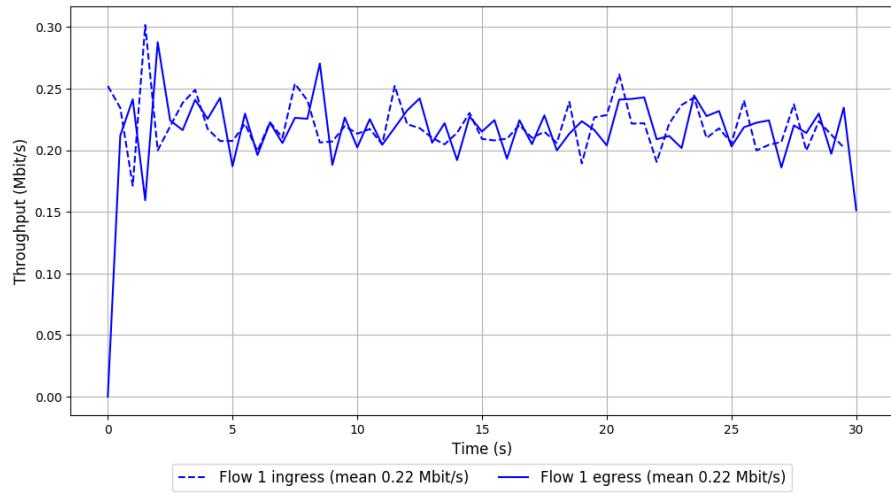


Run 5: Statistics of SCReAM

```
Start at: 2019-06-27 03:24:57
End at: 2019-06-27 03:25:27
Local clock offset: 1.623 ms
Remote clock offset: 1.629 ms

# Below is generated by plot.py at 2019-06-27 05:07:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.990 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.990 ms
Loss rate: 0.64%
```

Run 5: Report of SCReAM — Data Link

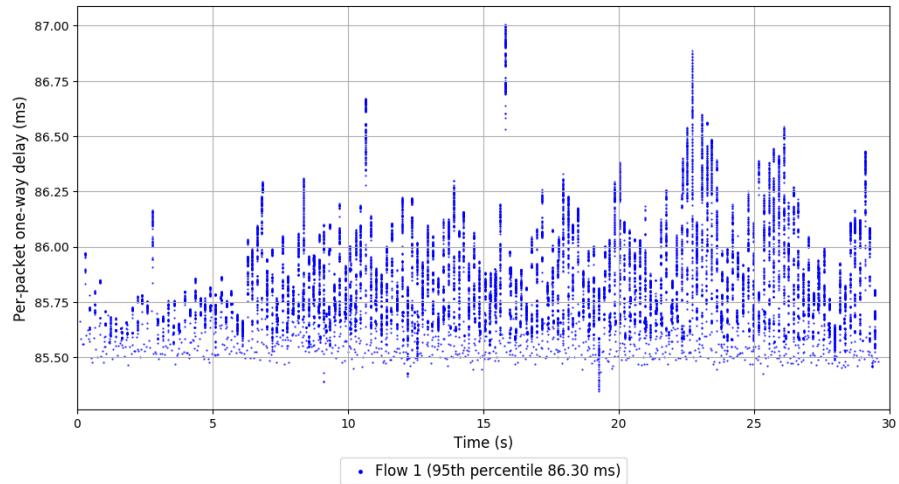
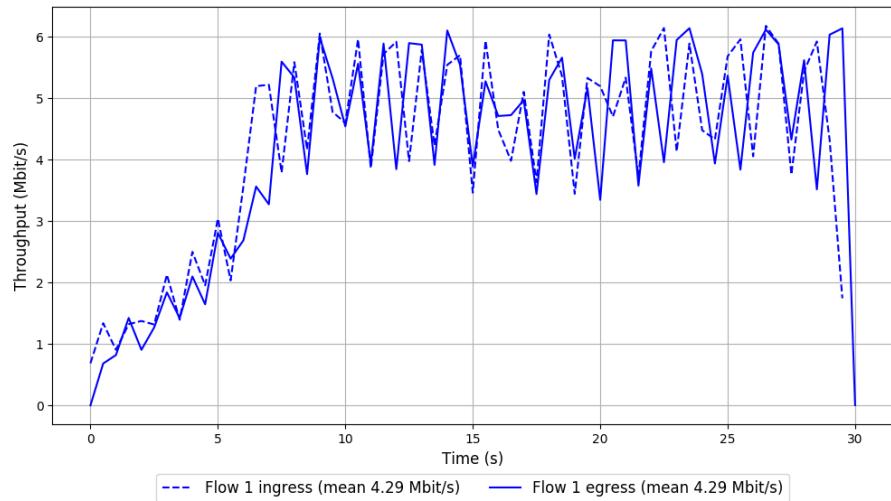


Run 1: Statistics of Sprout

```
Start at: 2019-06-27 01:15:48
End at: 2019-06-27 01:16:18
Local clock offset: 20.267 ms
Remote clock offset: 19.378 ms

# Below is generated by plot.py at 2019-06-27 05:07:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 86.304 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 86.304 ms
Loss rate: 0.68%
```

Run 1: Report of Sprout — Data Link

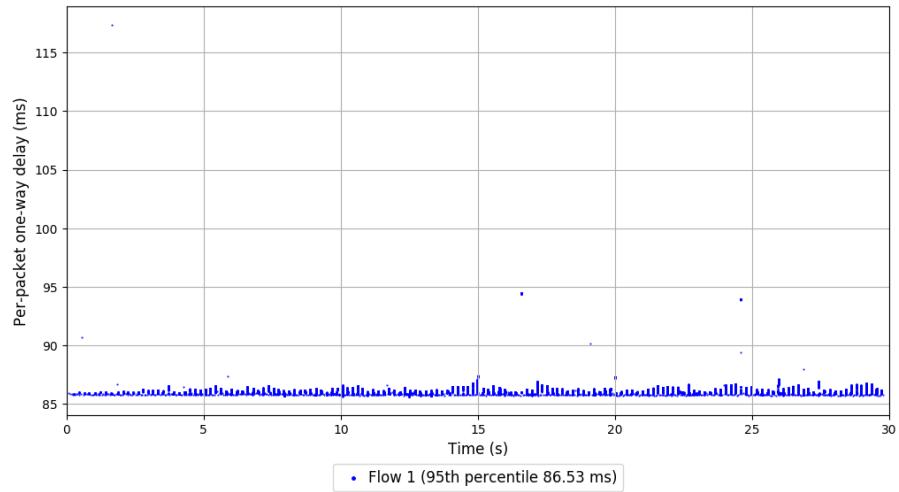
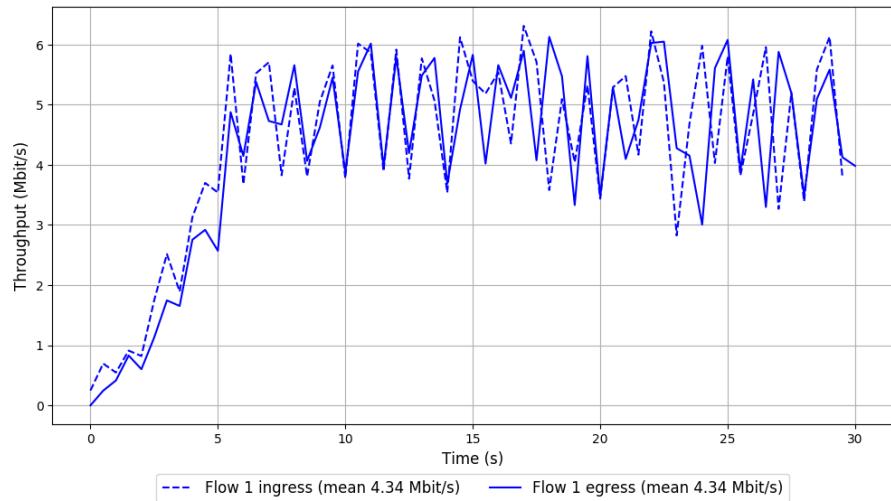


Run 2: Statistics of Sprout

```
Start at: 2019-06-27 01:47:37
End at: 2019-06-27 01:48:07
Local clock offset: 35.024 ms
Remote clock offset: 32.768 ms

# Below is generated by plot.py at 2019-06-27 05:07:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 86.527 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 86.527 ms
Loss rate: 0.70%
```

Run 2: Report of Sprout — Data Link

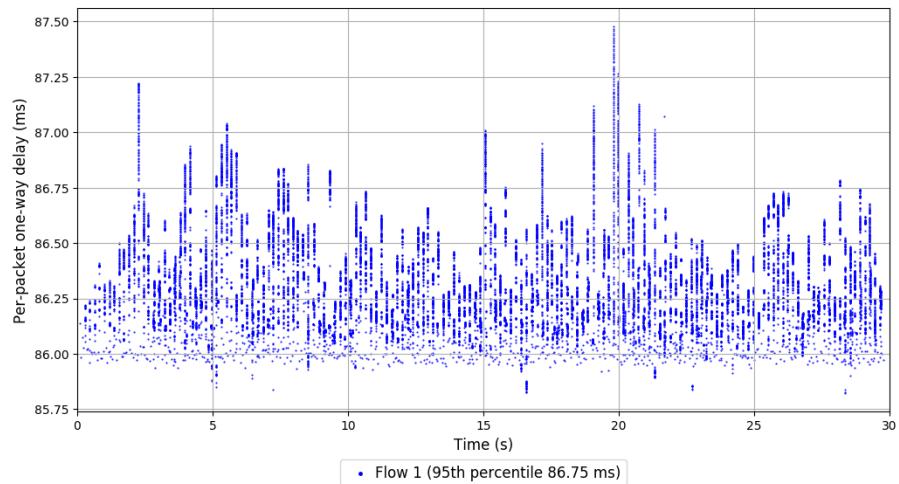
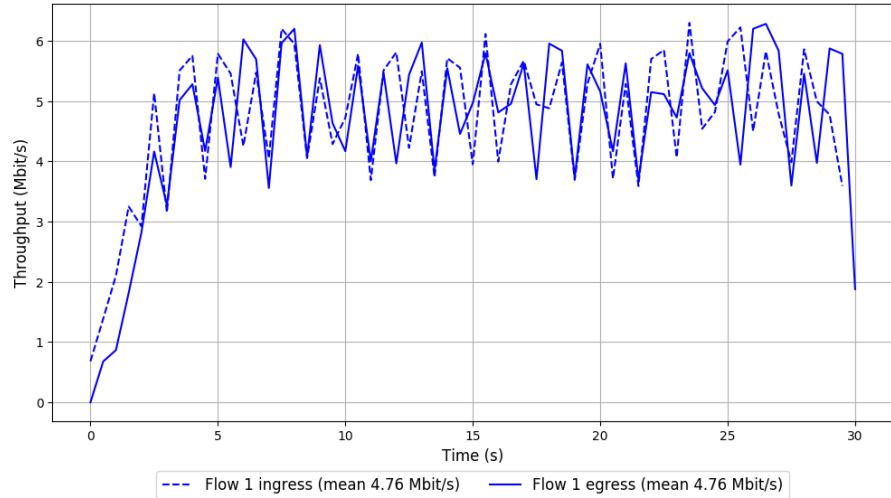


Run 3: Statistics of Sprout

```
Start at: 2019-06-27 02:19:18
End at: 2019-06-27 02:19:48
Local clock offset: 17.765 ms
Remote clock offset: 16.76 ms

# Below is generated by plot.py at 2019-06-27 05:07:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.76 Mbit/s
95th percentile per-packet one-way delay: 86.749 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 4.76 Mbit/s
95th percentile per-packet one-way delay: 86.749 ms
Loss rate: 0.60%
```

Run 3: Report of Sprout — Data Link

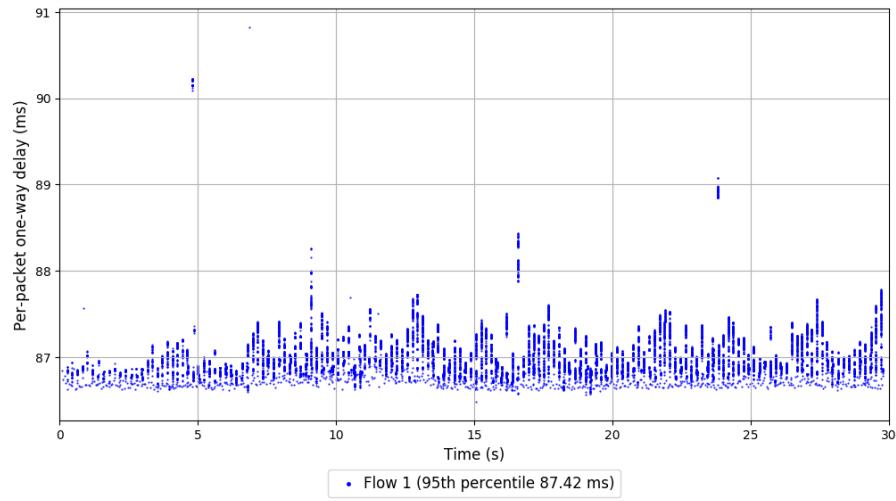
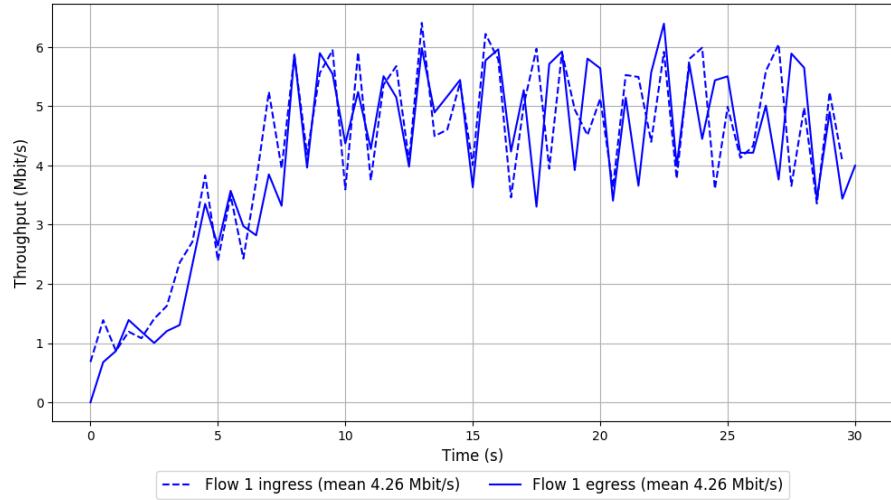


Run 4: Statistics of Sprout

```
Start at: 2019-06-27 02:51:35
End at: 2019-06-27 02:52:05
Local clock offset: 5.312 ms
Remote clock offset: 4.644 ms

# Below is generated by plot.py at 2019-06-27 05:07:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 87.420 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 87.420 ms
Loss rate: 0.73%
```

Run 4: Report of Sprout — Data Link

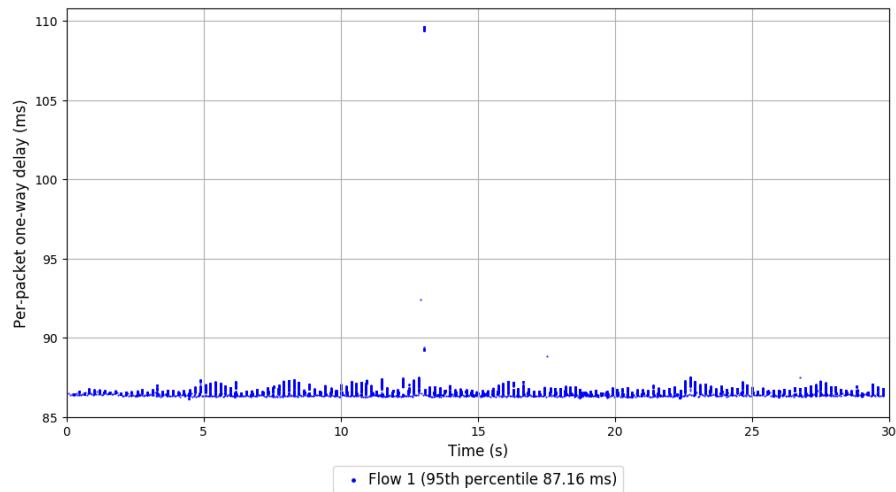
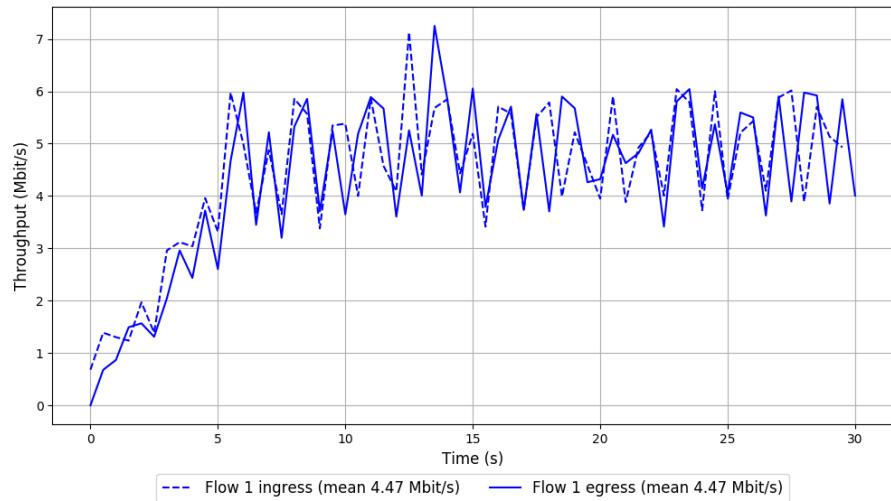


Run 5: Statistics of Sprout

```
Start at: 2019-06-27 03:23:47
End at: 2019-06-27 03:24:17
Local clock offset: 2.161 ms
Remote clock offset: 1.645 ms

# Below is generated by plot.py at 2019-06-27 05:07:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 87.155 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 87.155 ms
Loss rate: 0.77%
```

Run 5: Report of Sprout — Data Link

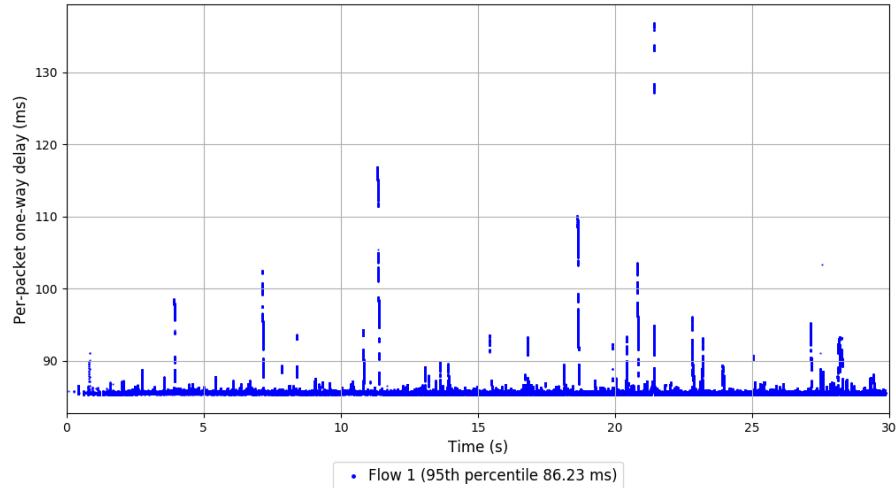
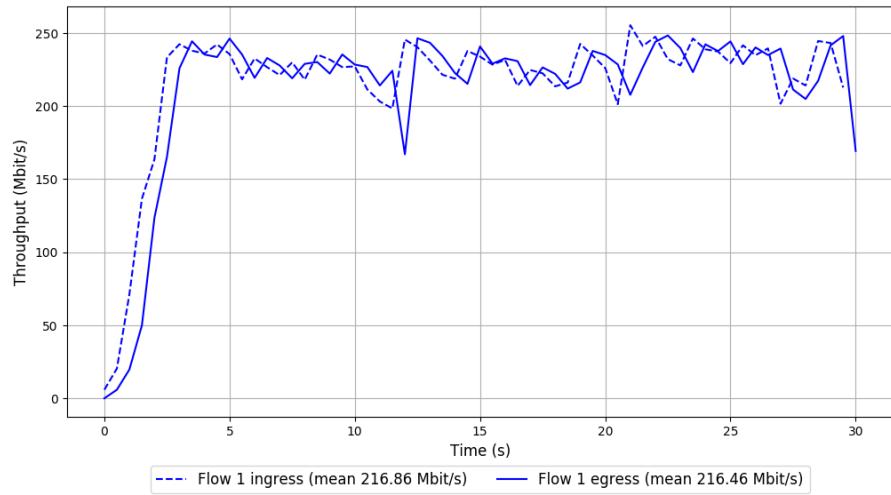


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-06-27 01:01:38
End at: 2019-06-27 01:02:08
Local clock offset: 13.02 ms
Remote clock offset: 12.726 ms

# Below is generated by plot.py at 2019-06-27 05:09:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.46 Mbit/s
95th percentile per-packet one-way delay: 86.227 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 216.46 Mbit/s
95th percentile per-packet one-way delay: 86.227 ms
Loss rate: 0.76%
```

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

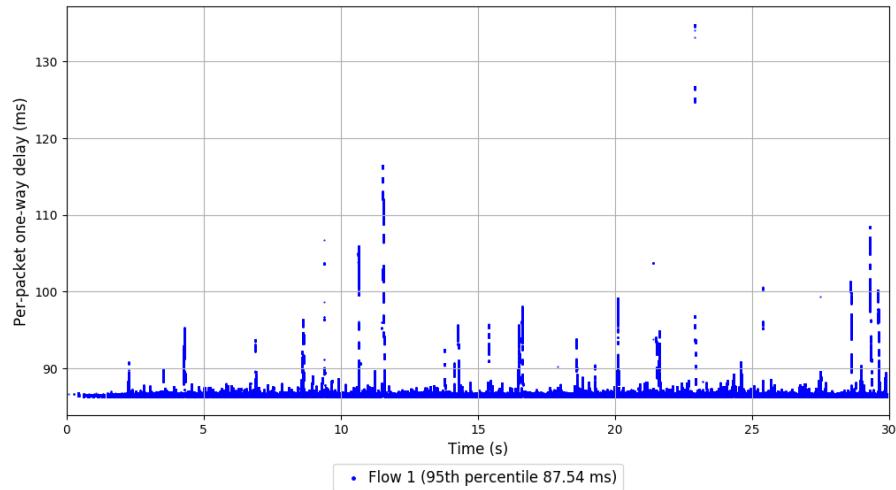
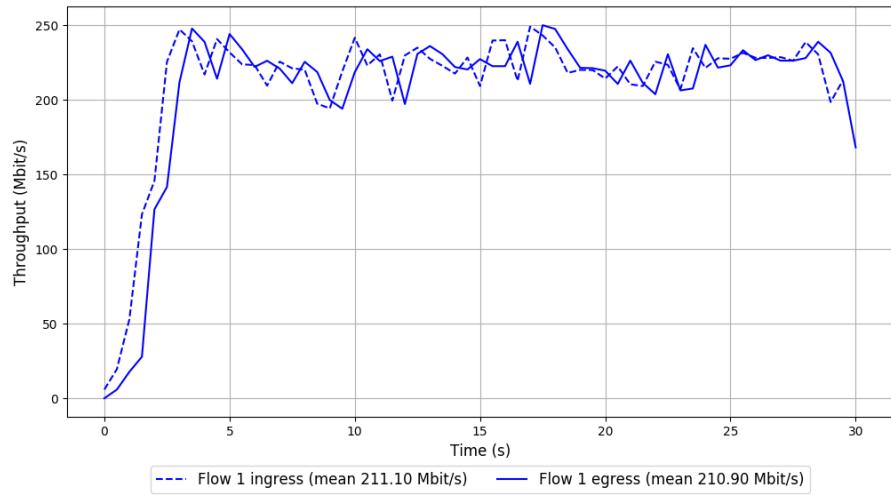


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-06-27 01:33:37
End at: 2019-06-27 01:34:07
Local clock offset: 23.363 ms
Remote clock offset: 21.5 ms

# Below is generated by plot.py at 2019-06-27 05:09:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.90 Mbit/s
95th percentile per-packet one-way delay: 87.540 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 210.90 Mbit/s
95th percentile per-packet one-way delay: 87.540 ms
Loss rate: 0.67%
```

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

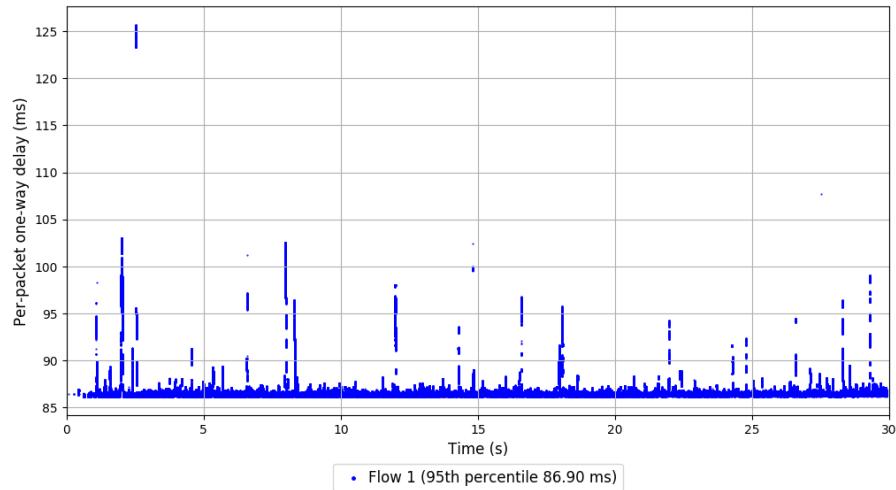
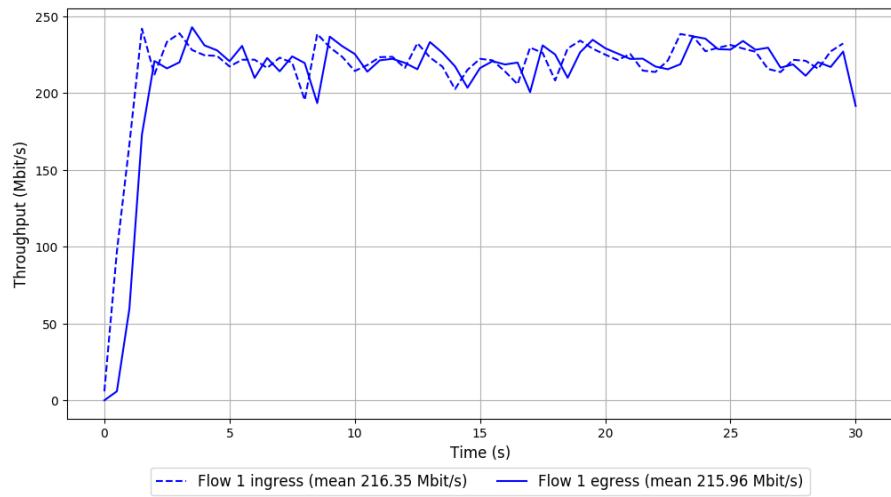


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-06-27 02:04:57
End at: 2019-06-27 02:05:27
Local clock offset: 21.961 ms
Remote clock offset: 20.499 ms

# Below is generated by plot.py at 2019-06-27 05:09:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.96 Mbit/s
95th percentile per-packet one-way delay: 86.897 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 215.96 Mbit/s
95th percentile per-packet one-way delay: 86.897 ms
Loss rate: 0.76%
```

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

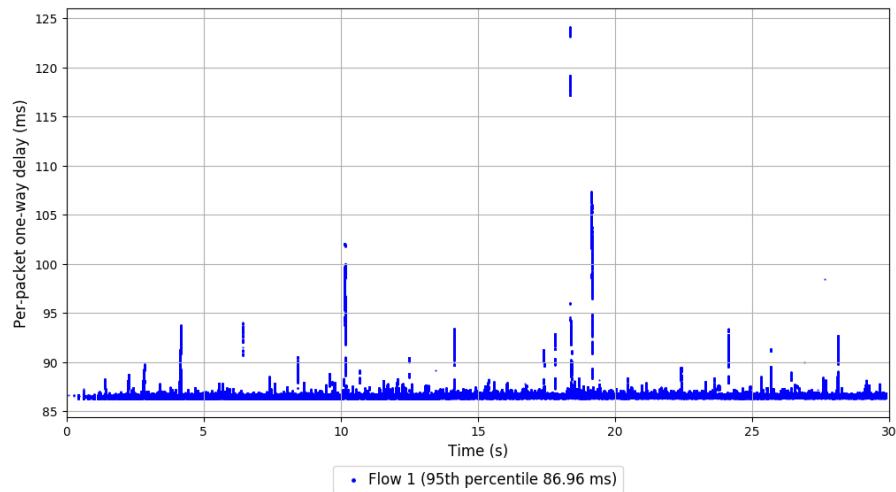
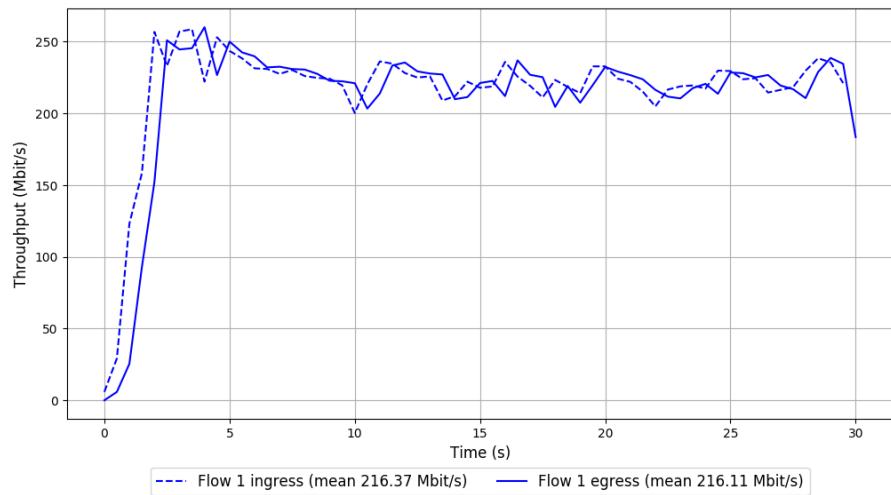


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-06-27 02:37:11
End at: 2019-06-27 02:37:41
Local clock offset: 11.642 ms
Remote clock offset: 10.46 ms

# Below is generated by plot.py at 2019-06-27 05:10:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.11 Mbit/s
95th percentile per-packet one-way delay: 86.956 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 216.11 Mbit/s
95th percentile per-packet one-way delay: 86.956 ms
Loss rate: 0.70%
```

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

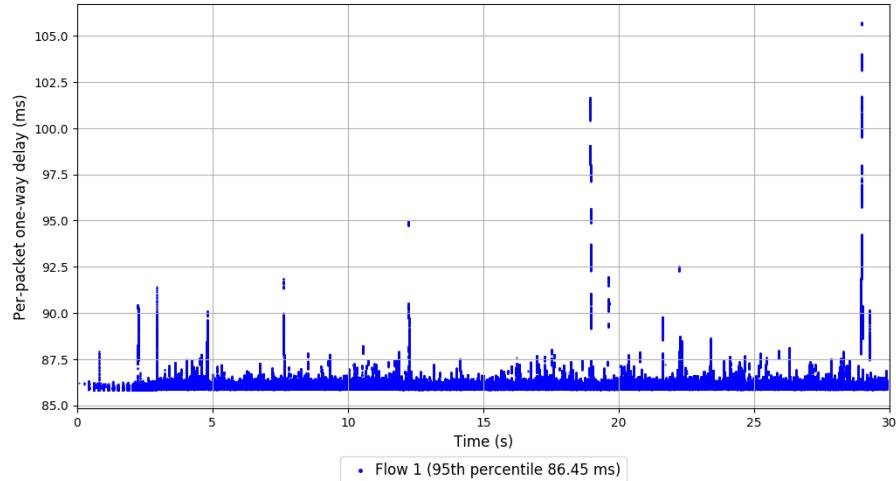
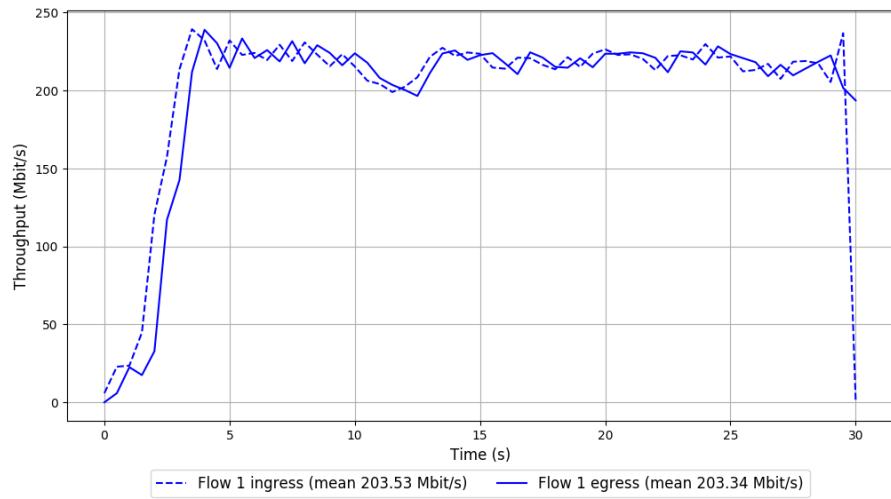


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-06-27 03:09:28
End at: 2019-06-27 03:09:58
Local clock offset: 3.323 ms
Remote clock offset: 3.088 ms

# Below is generated by plot.py at 2019-06-27 05:10:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.34 Mbit/s
95th percentile per-packet one-way delay: 86.455 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 203.34 Mbit/s
95th percentile per-packet one-way delay: 86.455 ms
Loss rate: 0.67%
```

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

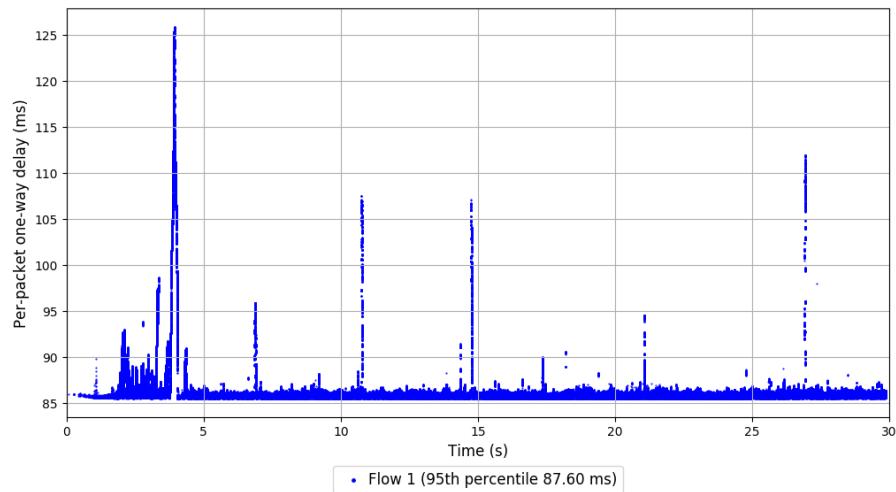
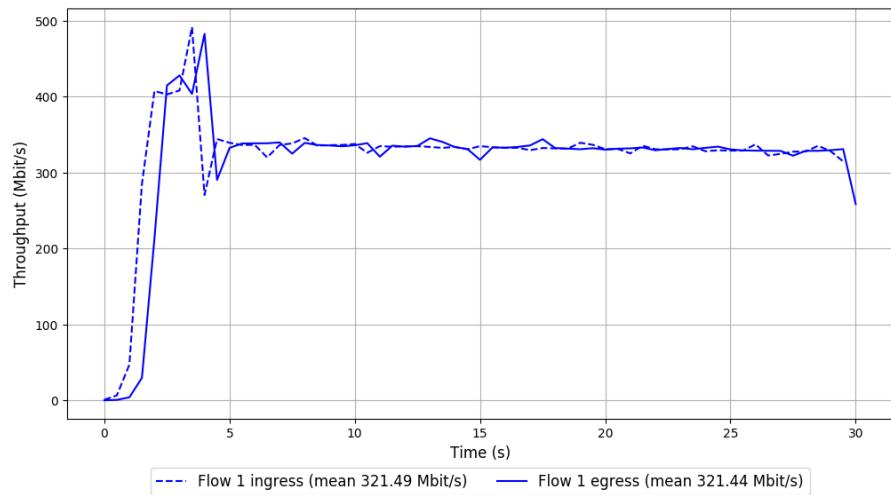


Run 1: Statistics of TCP Vegas

```
Start at: 2019-06-27 00:53:04
End at: 2019-06-27 00:53:34
Local clock offset: 6.787 ms
Remote clock offset: 6.358 ms

# Below is generated by plot.py at 2019-06-27 05:10:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 321.44 Mbit/s
95th percentile per-packet one-way delay: 87.598 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 321.44 Mbit/s
95th percentile per-packet one-way delay: 87.598 ms
Loss rate: 0.59%
```

Run 1: Report of TCP Vegas — Data Link

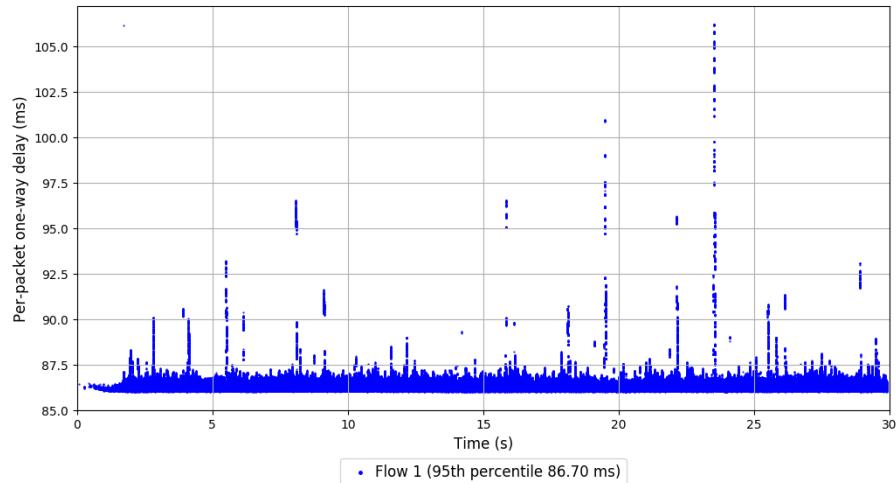
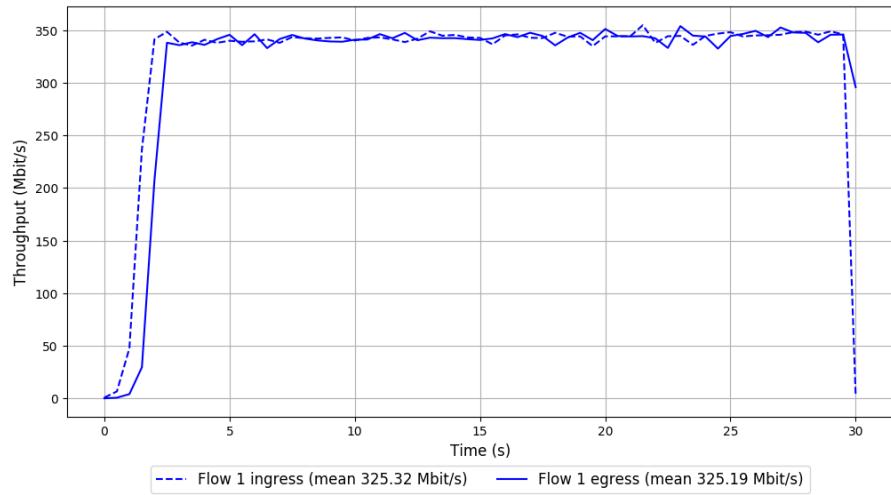


Run 2: Statistics of TCP Vegas

```
Start at: 2019-06-27 01:24:40
End at: 2019-06-27 01:25:10
Local clock offset: 25.841 ms
Remote clock offset: 24.047 ms

# Below is generated by plot.py at 2019-06-27 05:11:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.19 Mbit/s
95th percentile per-packet one-way delay: 86.705 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 325.19 Mbit/s
95th percentile per-packet one-way delay: 86.705 ms
Loss rate: 0.61%
```

Run 2: Report of TCP Vegas — Data Link

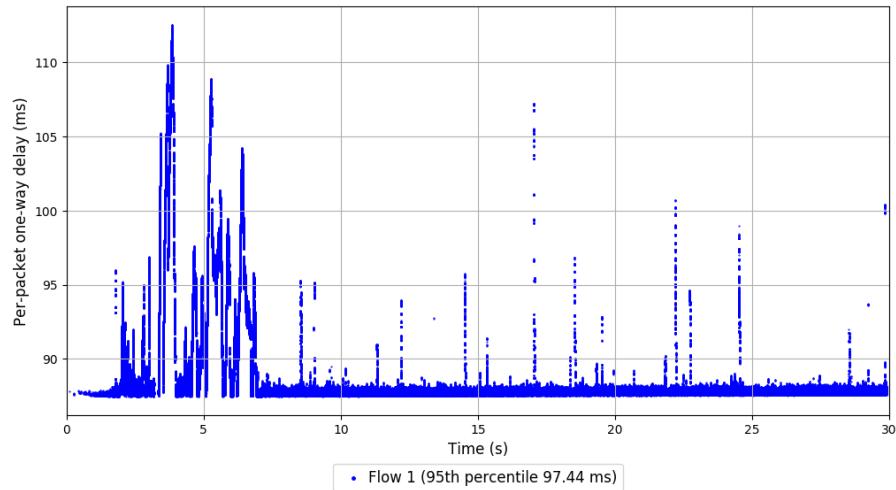
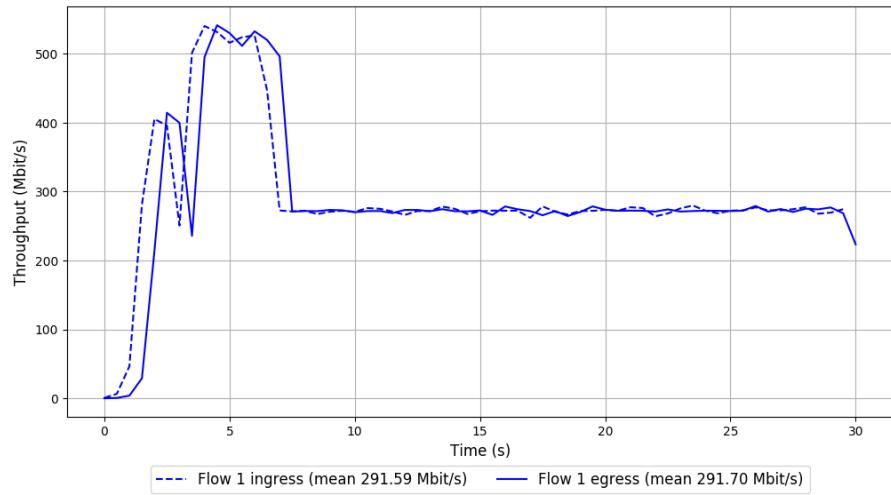


Run 3: Statistics of TCP Vegas

```
Start at: 2019-06-27 01:56:27
End at: 2019-06-27 01:56:57
Local clock offset: 45.157 ms
Remote clock offset: 40.875 ms

# Below is generated by plot.py at 2019-06-27 05:12:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 291.70 Mbit/s
95th percentile per-packet one-way delay: 97.441 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 291.70 Mbit/s
95th percentile per-packet one-way delay: 97.441 ms
Loss rate: 0.54%
```

Run 3: Report of TCP Vegas — Data Link

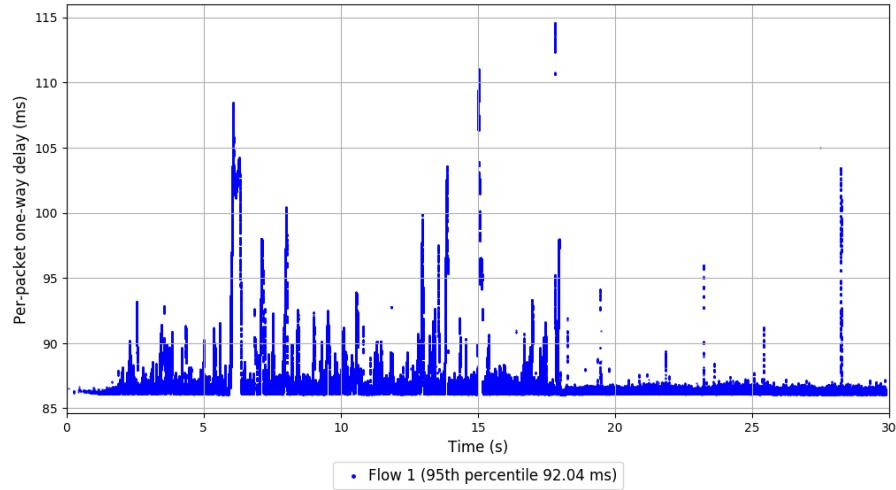
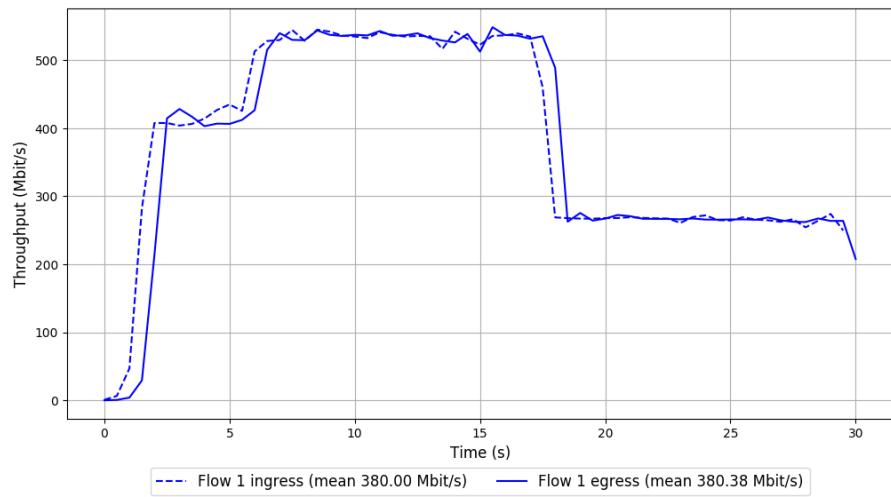


Run 4: Statistics of TCP Vegas

```
Start at: 2019-06-27 02:28:12
End at: 2019-06-27 02:28:42
Local clock offset: 22.024 ms
Remote clock offset: 20.176 ms

# Below is generated by plot.py at 2019-06-27 05:16:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.38 Mbit/s
95th percentile per-packet one-way delay: 92.042 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 380.38 Mbit/s
95th percentile per-packet one-way delay: 92.042 ms
Loss rate: 0.48%
```

Run 4: Report of TCP Vegas — Data Link

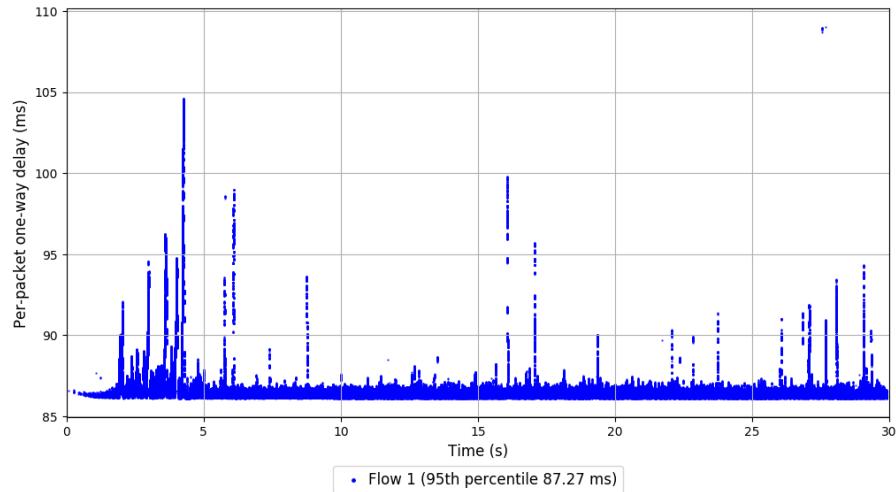
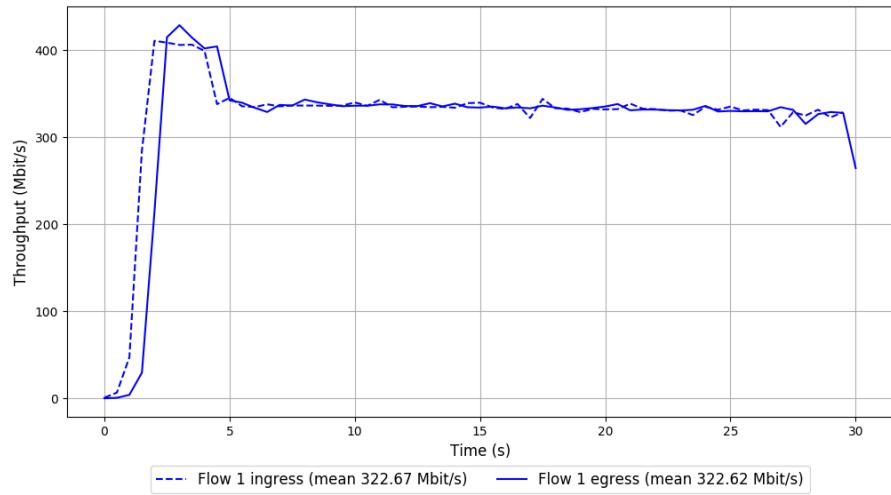


Run 5: Statistics of TCP Vegas

```
Start at: 2019-06-27 03:00:29
End at: 2019-06-27 03:00:59
Local clock offset: 5.368 ms
Remote clock offset: 4.783 ms

# Below is generated by plot.py at 2019-06-27 05:16:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.62 Mbit/s
95th percentile per-packet one-way delay: 87.274 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 322.62 Mbit/s
95th percentile per-packet one-way delay: 87.274 ms
Loss rate: 0.59%
```

Run 5: Report of TCP Vegas — Data Link

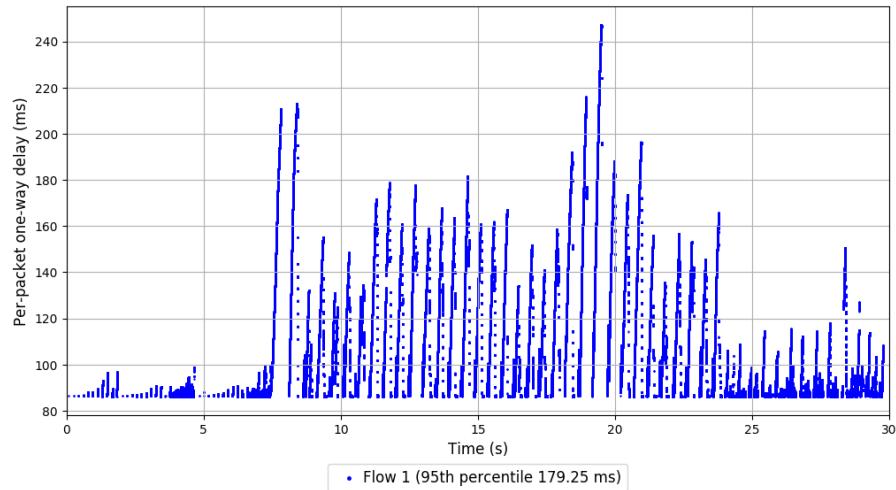
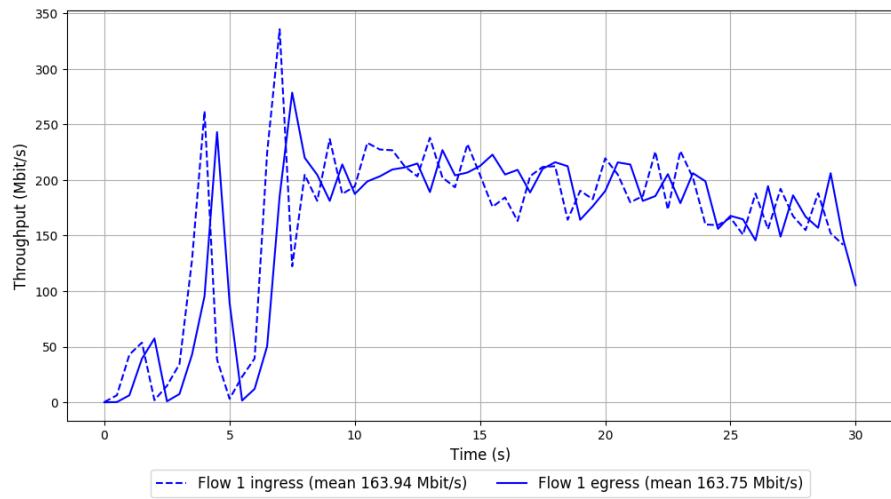


Run 1: Statistics of Verus

```
Start at: 2019-06-27 01:07:01
End at: 2019-06-27 01:07:31
Local clock offset: 16.204 ms
Remote clock offset: 15.004 ms

# Below is generated by plot.py at 2019-06-27 05:16:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 163.75 Mbit/s
95th percentile per-packet one-way delay: 179.252 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 163.75 Mbit/s
95th percentile per-packet one-way delay: 179.252 ms
Loss rate: 0.69%
```

Run 1: Report of Verus — Data Link

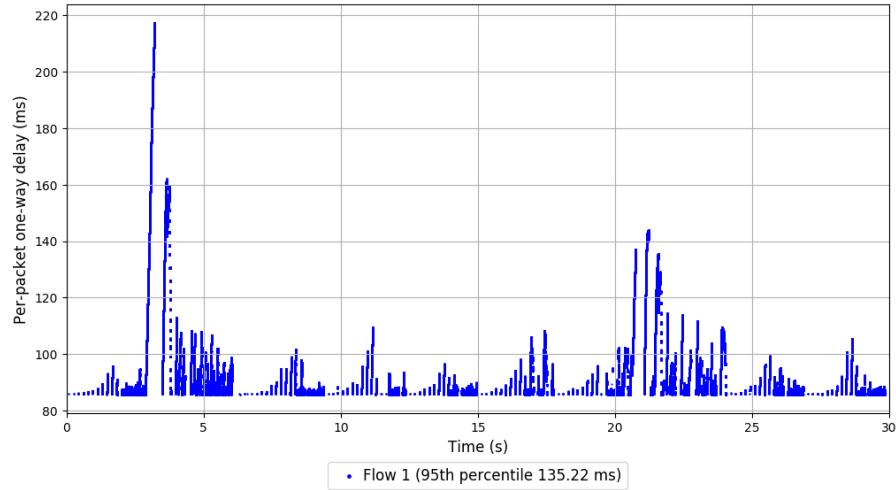
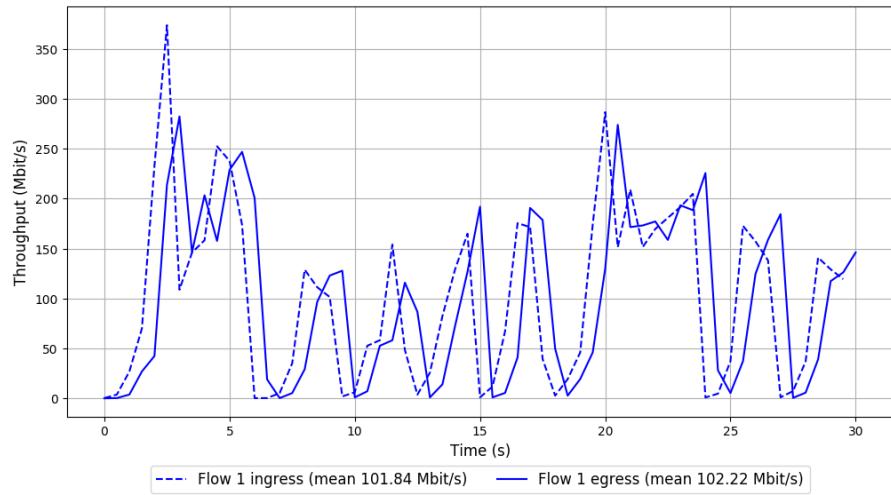


Run 2: Statistics of Verus

```
Start at: 2019-06-27 01:38:56
End at: 2019-06-27 01:39:26
Local clock offset: 26.326 ms
Remote clock offset: 24.482 ms

# Below is generated by plot.py at 2019-06-27 05:16:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 102.22 Mbit/s
95th percentile per-packet one-way delay: 135.223 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 102.22 Mbit/s
95th percentile per-packet one-way delay: 135.223 ms
Loss rate: 0.21%
```

Run 2: Report of Verus — Data Link

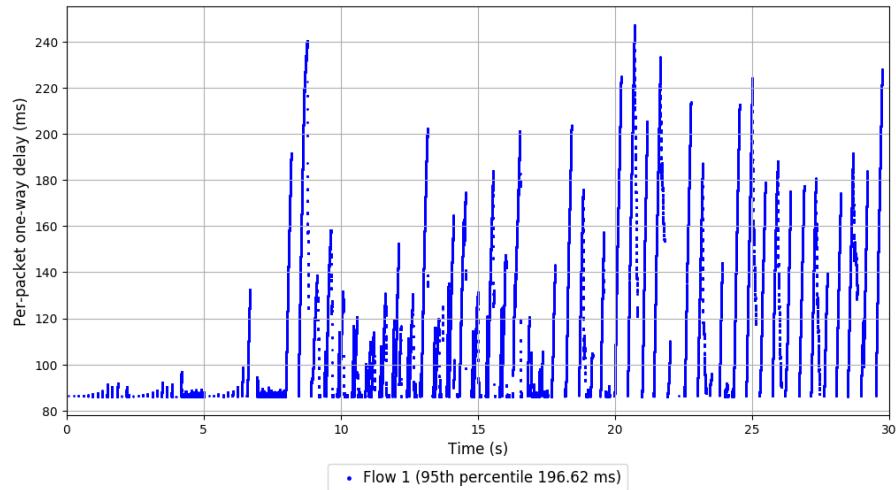
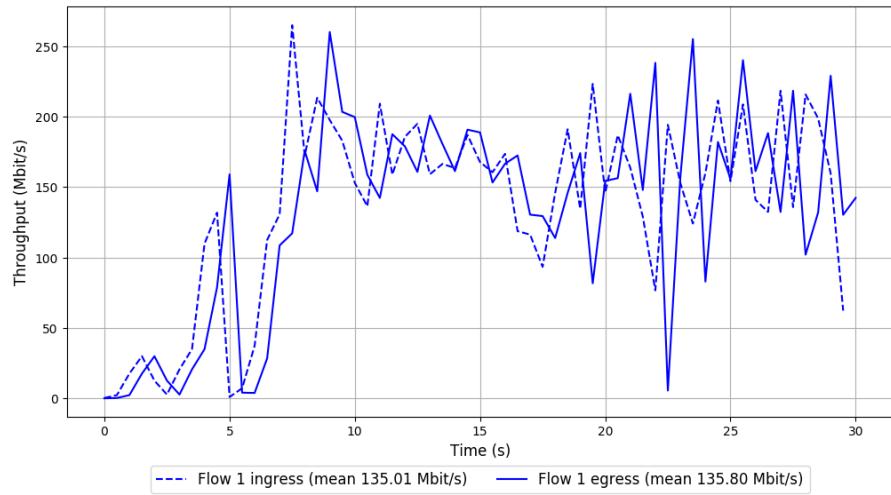


Run 3: Statistics of Verus

```
Start at: 2019-06-27 02:10:16
End at: 2019-06-27 02:10:46
Local clock offset: 18.055 ms
Remote clock offset: 16.533 ms

# Below is generated by plot.py at 2019-06-27 05:16:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 135.80 Mbit/s
95th percentile per-packet one-way delay: 196.616 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 135.80 Mbit/s
95th percentile per-packet one-way delay: 196.616 ms
Loss rate: 0.50%
```

Run 3: Report of Verus — Data Link

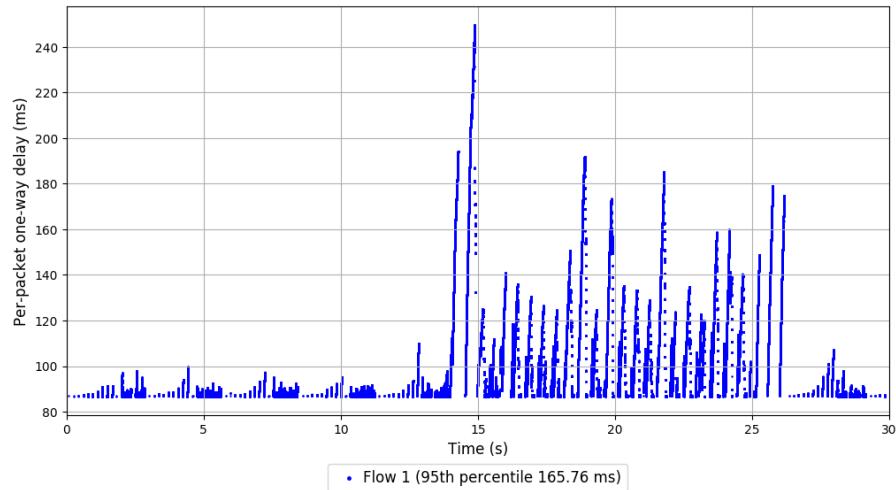
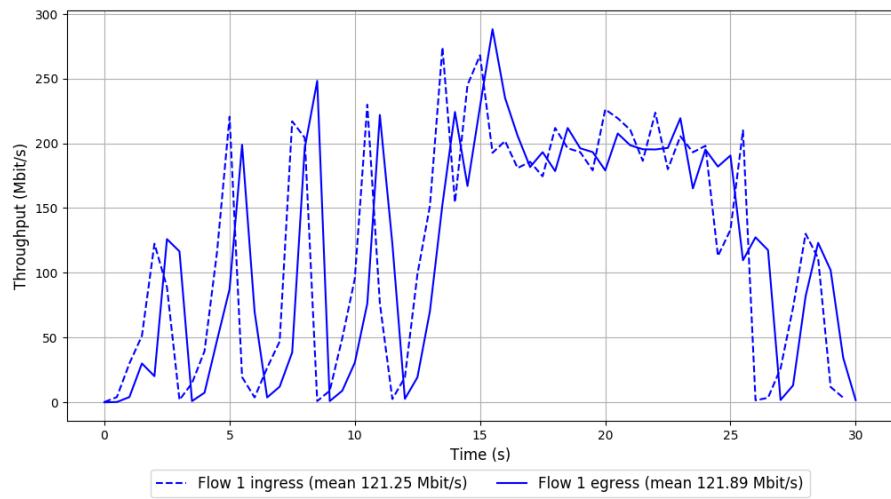


Run 4: Statistics of Verus

```
Start at: 2019-06-27 02:42:35
End at: 2019-06-27 02:43:05
Local clock offset: 7.663 ms
Remote clock offset: 6.687 ms

# Below is generated by plot.py at 2019-06-27 05:16:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 121.89 Mbit/s
95th percentile per-packet one-way delay: 165.759 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 121.89 Mbit/s
95th percentile per-packet one-way delay: 165.759 ms
Loss rate: 0.06%
```

Run 4: Report of Verus — Data Link

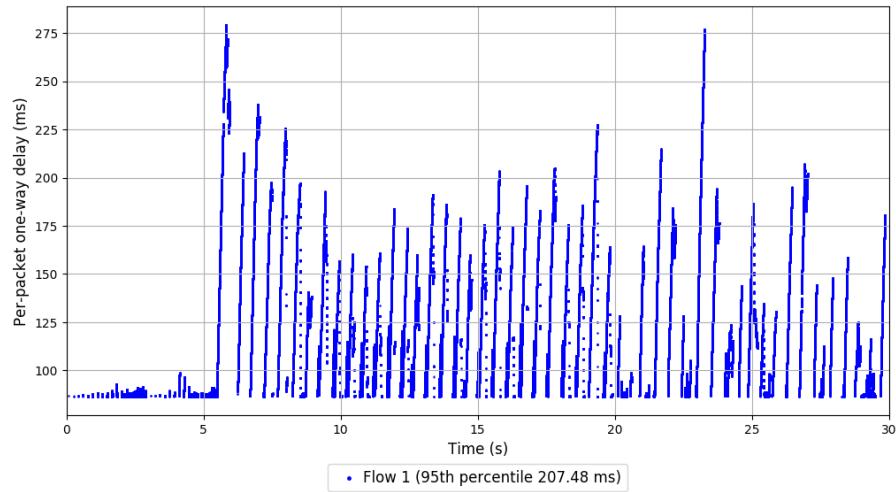
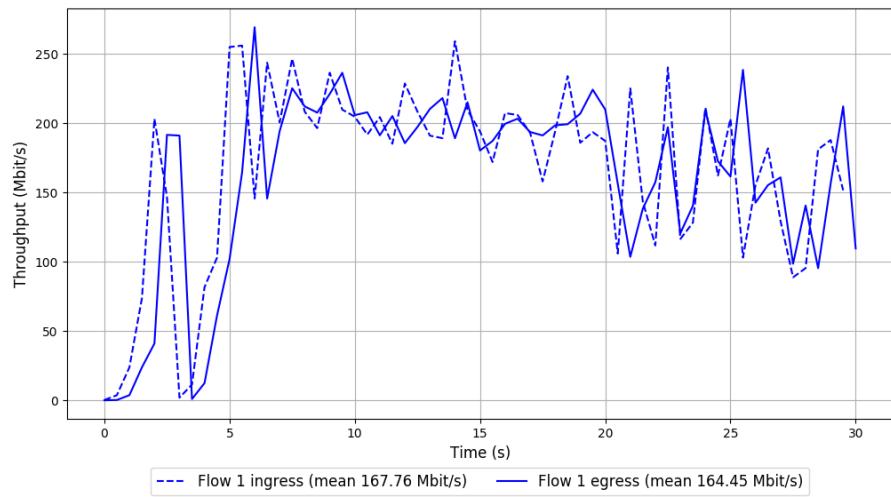


Run 5: Statistics of Verus

```
Start at: 2019-06-27 03:14:51
End at: 2019-06-27 03:15:21
Local clock offset: 2.58 ms
Remote clock offset: 2.099 ms

# Below is generated by plot.py at 2019-06-27 05:17:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 164.45 Mbit/s
95th percentile per-packet one-way delay: 207.477 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 164.45 Mbit/s
95th percentile per-packet one-way delay: 207.477 ms
Loss rate: 1.77%
```

Run 5: Report of Verus — Data Link

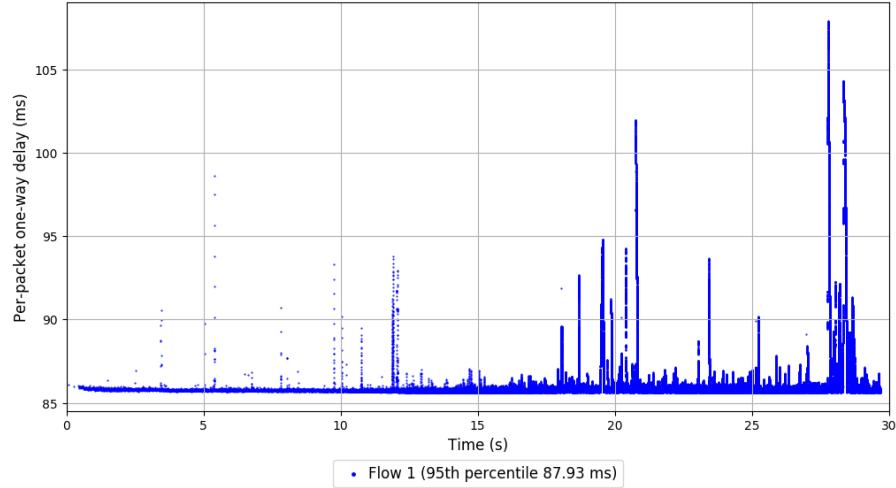
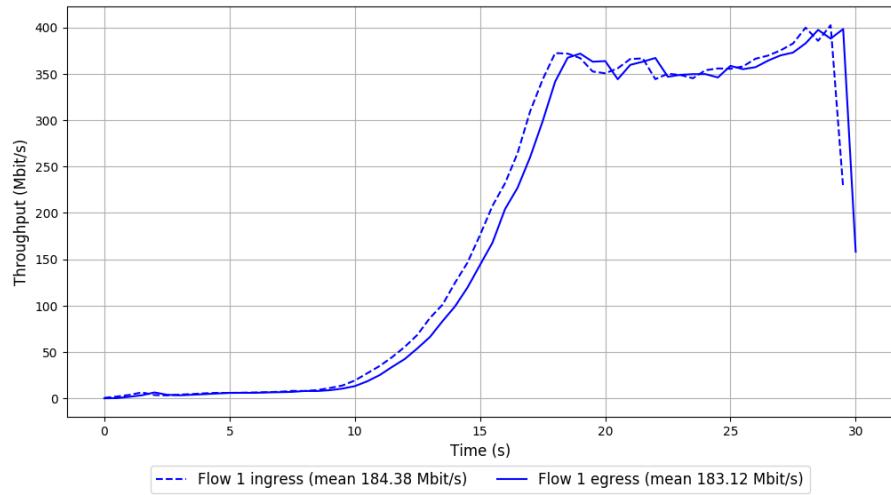


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-06-27 01:14:26
End at: 2019-06-27 01:14:56
Local clock offset: 18.378 ms
Remote clock offset: 17.56 ms

# Below is generated by plot.py at 2019-06-27 05:17:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.12 Mbit/s
95th percentile per-packet one-way delay: 87.932 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 183.12 Mbit/s
95th percentile per-packet one-way delay: 87.932 ms
Loss rate: 1.26%
```

Run 1: Report of PCC-Vivace — Data Link

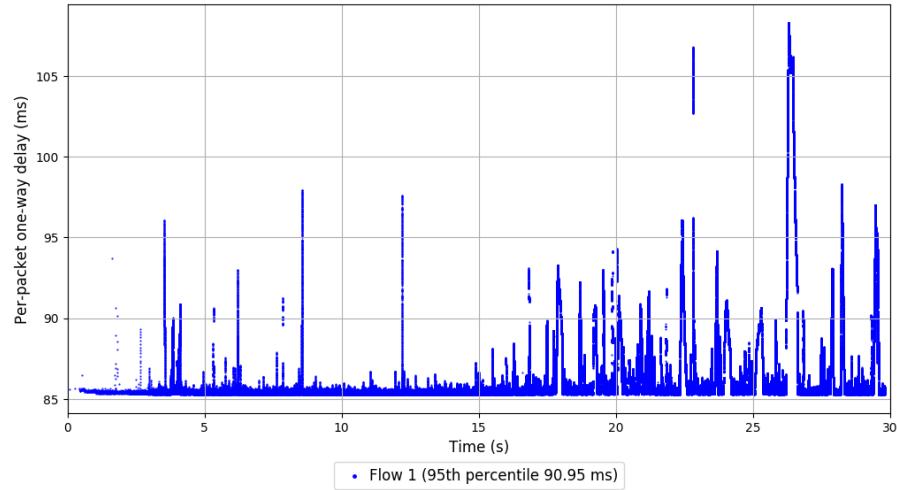
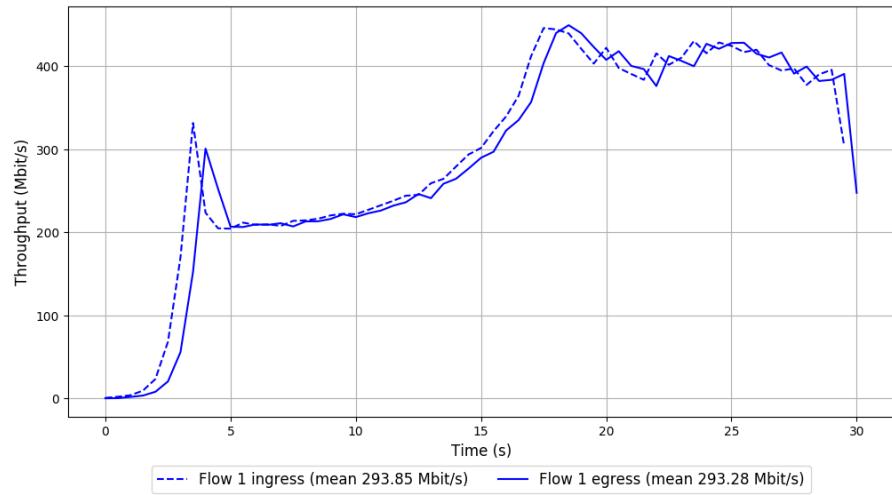


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-06-27 01:46:07
End at: 2019-06-27 01:46:37
Local clock offset: 33.032 ms
Remote clock offset: 31.141 ms

# Below is generated by plot.py at 2019-06-27 05:18:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.28 Mbit/s
95th percentile per-packet one-way delay: 90.954 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 293.28 Mbit/s
95th percentile per-packet one-way delay: 90.954 ms
Loss rate: 0.77%
```

Run 2: Report of PCC-Vivace — Data Link

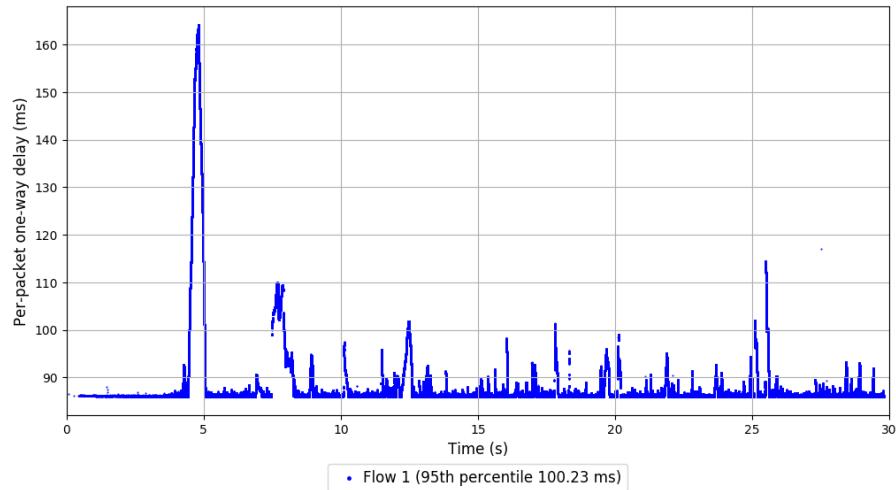
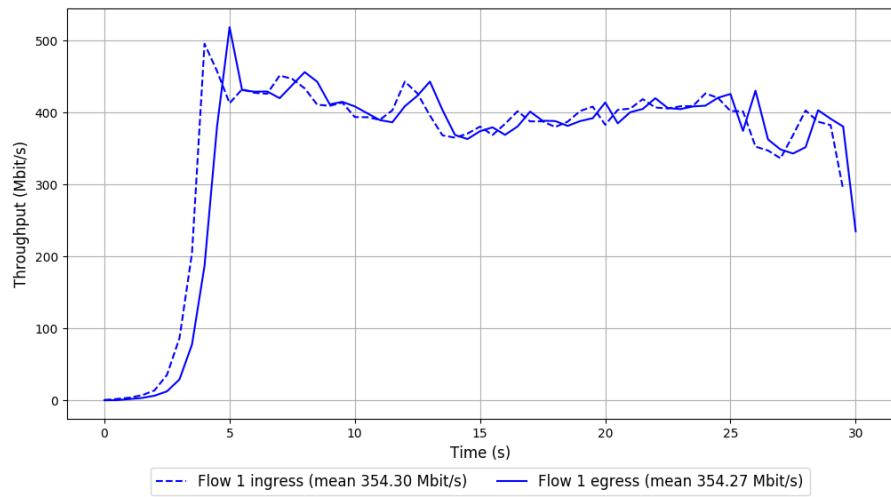


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-06-27 02:17:44
End at: 2019-06-27 02:18:14
Local clock offset: 17.764 ms
Remote clock offset: 16.336 ms

# Below is generated by plot.py at 2019-06-27 05:19:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 354.27 Mbit/s
95th percentile per-packet one-way delay: 100.231 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 354.27 Mbit/s
95th percentile per-packet one-way delay: 100.231 ms
Loss rate: 0.59%
```

Run 3: Report of PCC-Vivace — Data Link

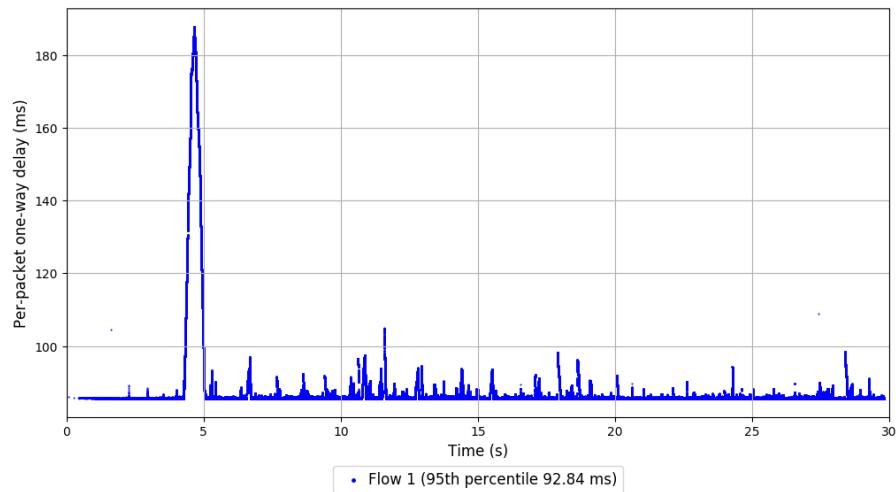
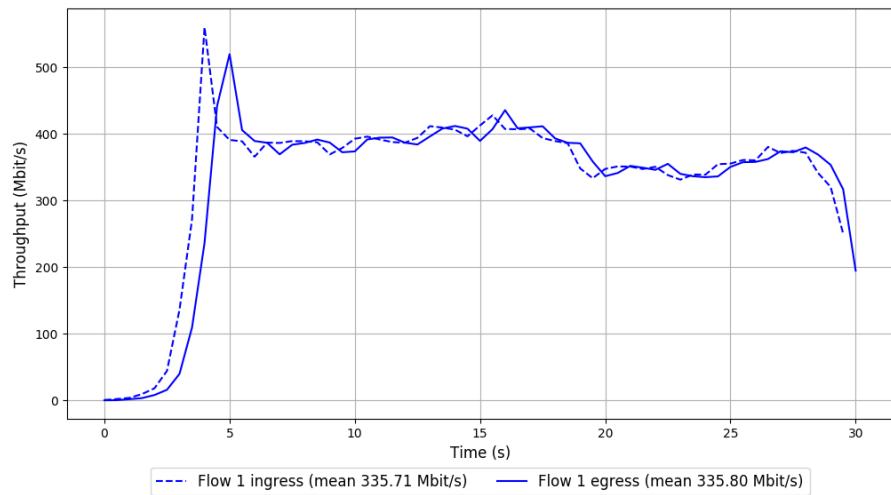


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-06-27 02:50:02
End at: 2019-06-27 02:50:32
Local clock offset: 4.873 ms
Remote clock offset: 4.808 ms

# Below is generated by plot.py at 2019-06-27 05:19:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.80 Mbit/s
95th percentile per-packet one-way delay: 92.842 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 335.80 Mbit/s
95th percentile per-packet one-way delay: 92.842 ms
Loss rate: 0.55%
```

Run 4: Report of PCC-Vivace — Data Link

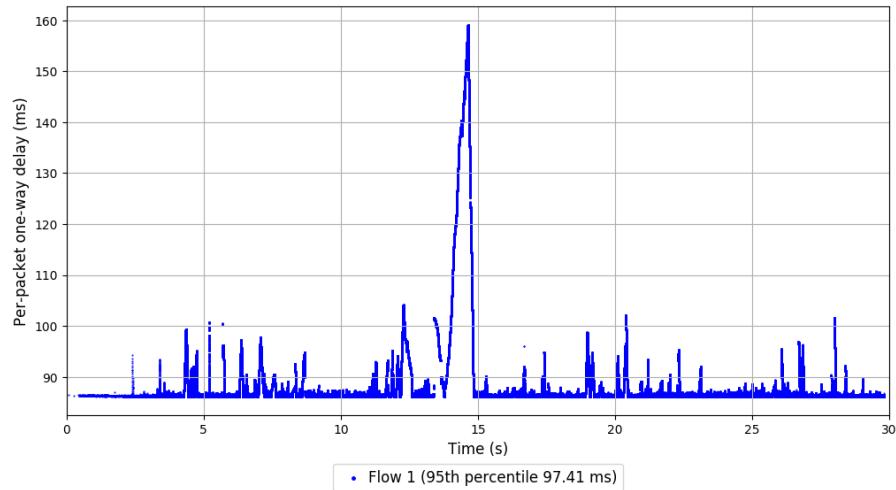
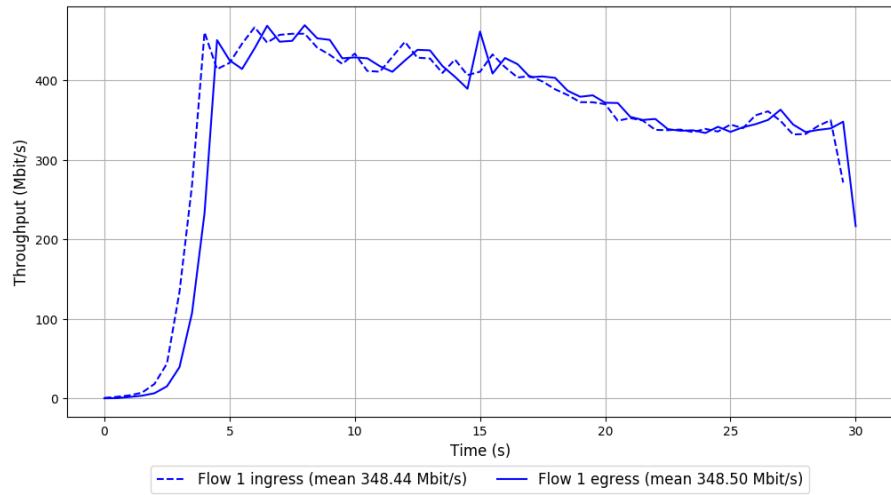


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-06-27 03:22:13
End at: 2019-06-27 03:22:43
Local clock offset: 1.829 ms
Remote clock offset: 1.613 ms

# Below is generated by plot.py at 2019-06-27 05:19:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 348.50 Mbit/s
95th percentile per-packet one-way delay: 97.408 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 348.50 Mbit/s
95th percentile per-packet one-way delay: 97.408 ms
Loss rate: 0.56%
```

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

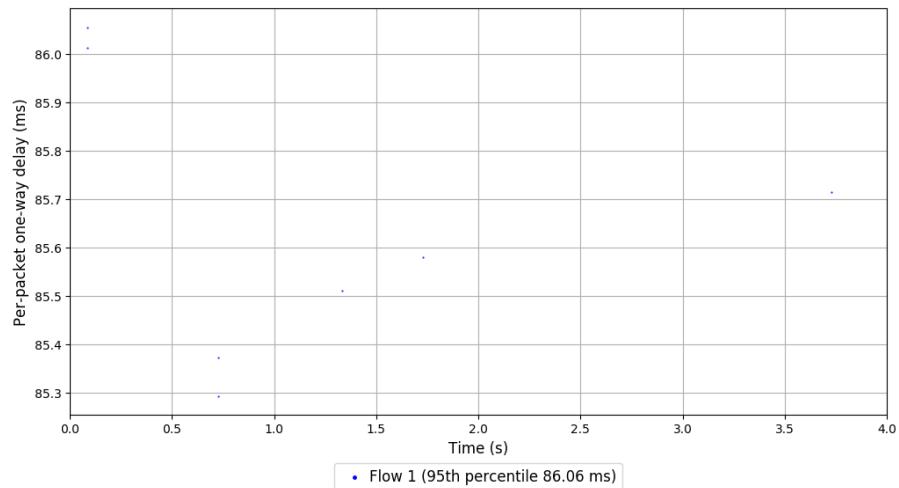
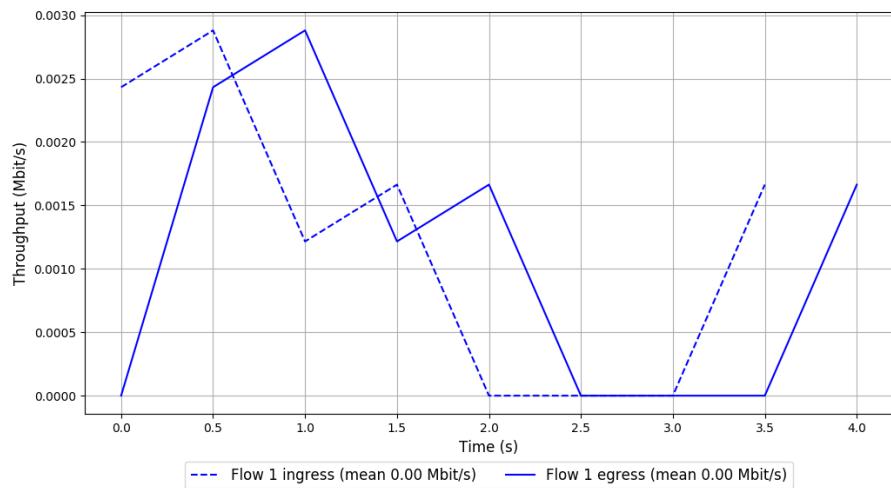
Start at: 2019-06-27 00:56:06

End at: 2019-06-27 00:56:36

Local clock offset: 12.279 ms

Remote clock offset: 11.957 ms

Run 1: Report of WebRTC media — Data Link

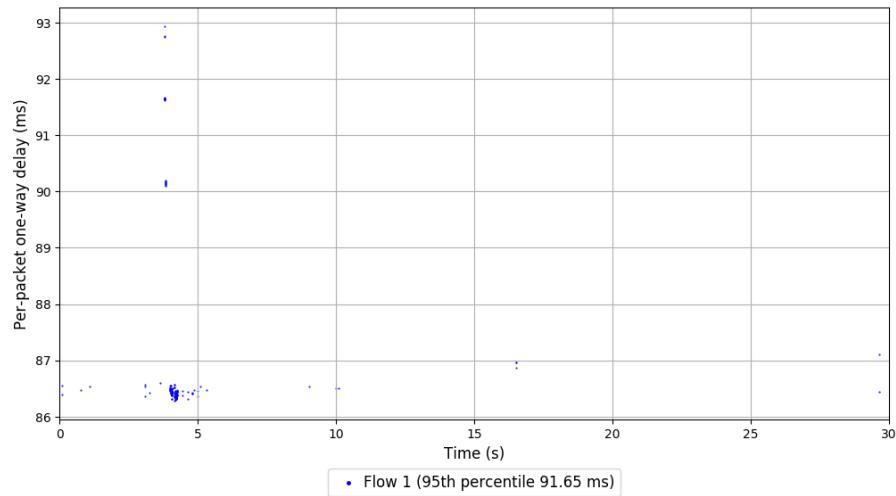
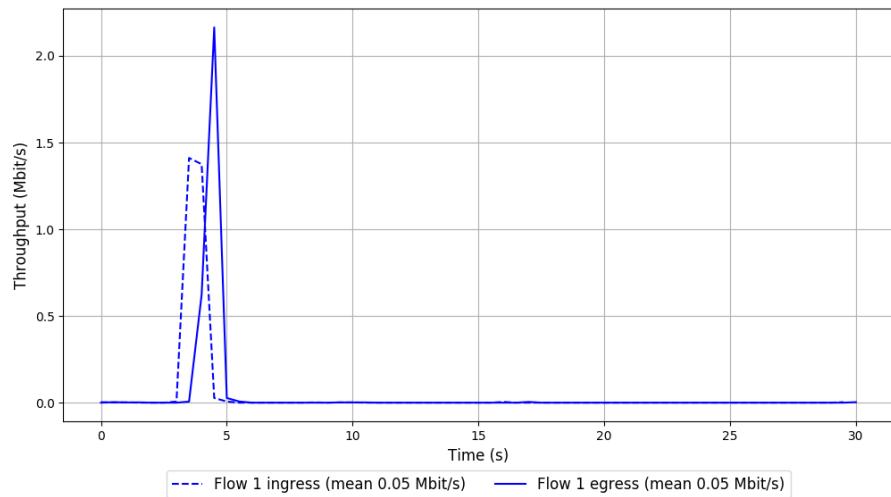


Run 2: Statistics of WebRTC media

```
Start at: 2019-06-27 01:27:40
End at: 2019-06-27 01:28:10
Local clock offset: 23.495 ms
Remote clock offset: 21.535 ms

# Below is generated by plot.py at 2019-06-27 05:19:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 91.651 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 91.651 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

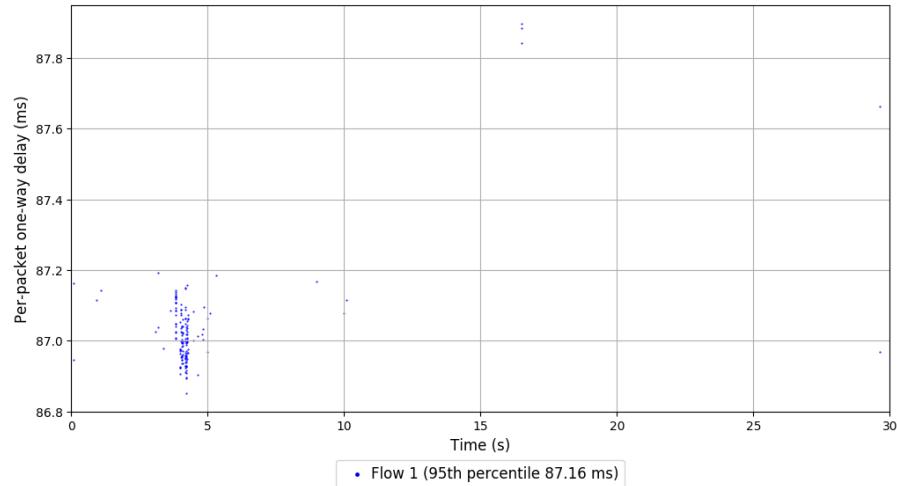
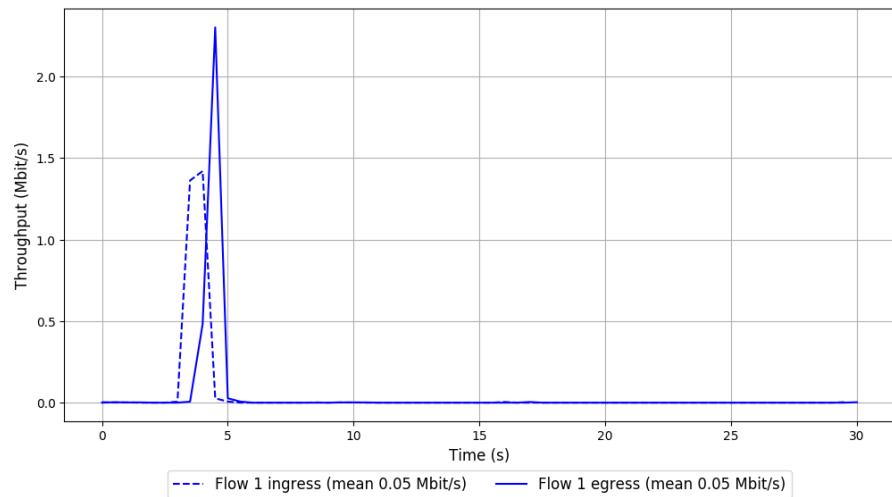


Run 3: Statistics of WebRTC media

```
Start at: 2019-06-27 01:59:26
End at: 2019-06-27 01:59:56
Local clock offset: 33.476 ms
Remote clock offset: 30.386 ms

# Below is generated by plot.py at 2019-06-27 05:19:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.159 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.159 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

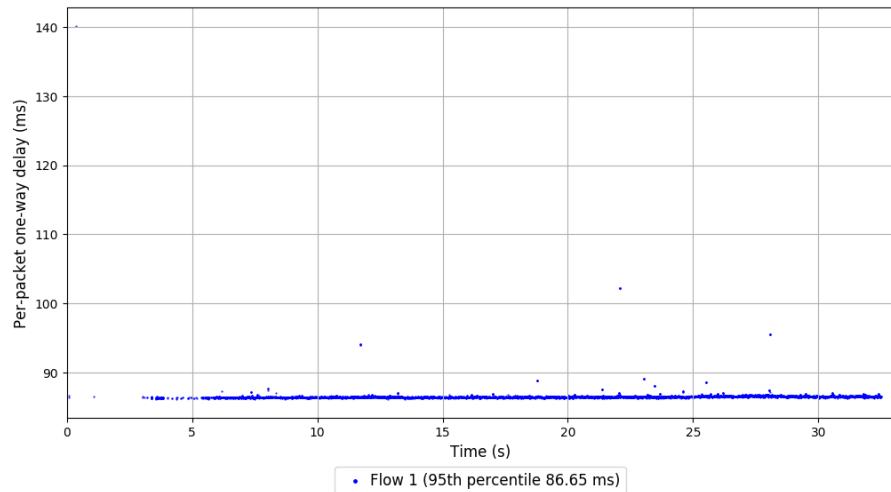
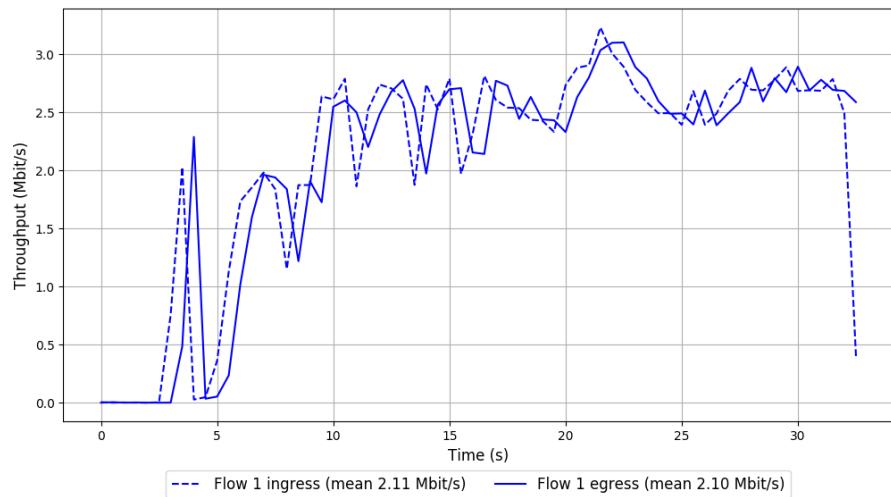


Run 4: Statistics of WebRTC media

```
Start at: 2019-06-27 02:31:16
End at: 2019-06-27 02:31:46
Local clock offset: 20.825 ms
Remote clock offset: 19.258 ms

# Below is generated by plot.py at 2019-06-27 05:19:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 86.648 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 86.648 ms
Loss rate: 0.58%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-06-27 03:03:29
End at: 2019-06-27 03:04:00
Local clock offset: 4.807 ms
Remote clock offset: 4.971 ms

# Below is generated by plot.py at 2019-06-27 05:19:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 85.753 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 85.753 ms
Loss rate: 1.10%
```

Run 5: Report of WebRTC media — Data Link

