

Pantheon Report

Generated at 2019-01-22 00:42:35 (UTC).
Data path: Saudi Arabia on `enp2s0` (*remote*) → AWS India 2 on `ens5` (*local*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

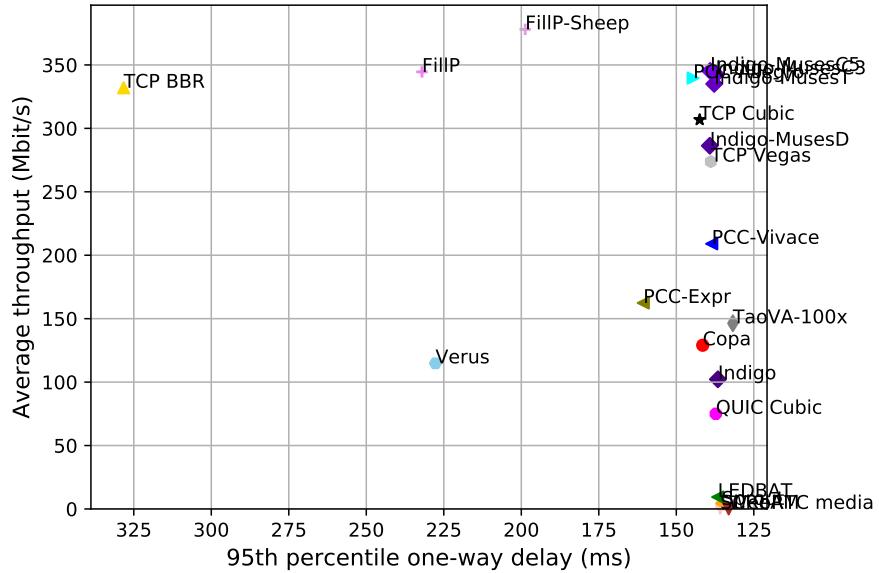
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

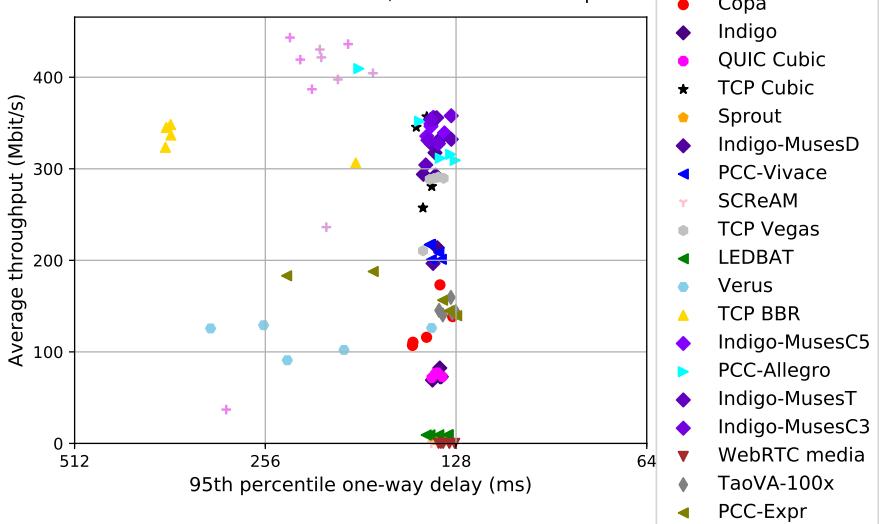
```
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d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

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from Saudi Arabia to AWS India 2, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from Saudi Arabia to AWS India 2, 5 runs of 30s each per scheme



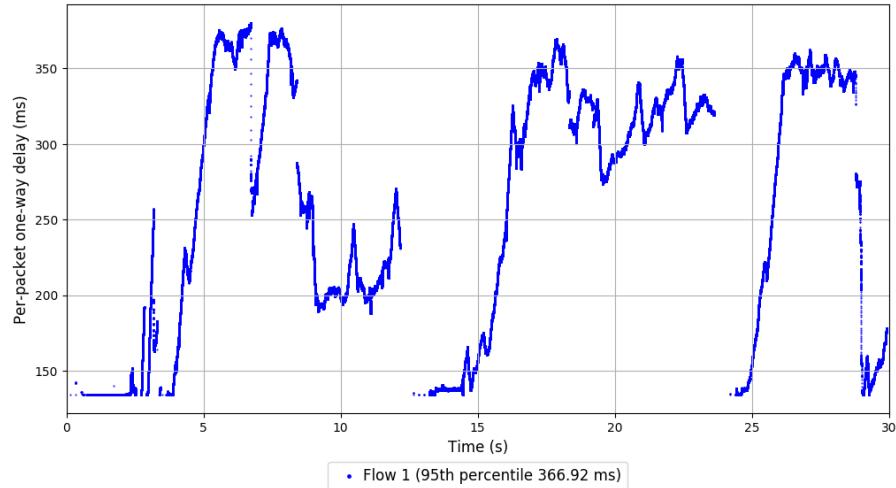
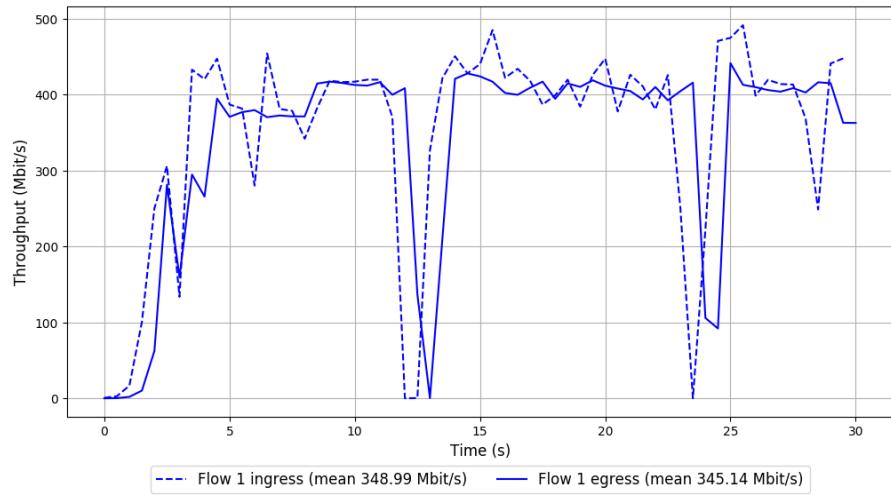
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	332.02	328.26	1.87
Copa	5	129.06	141.48	0.71
TCP Cubic	5	306.78	142.47	0.76
FillP	5	344.53	232.03	1.54
FillP-Sheep	5	378.05	198.74	0.98
Indigo	5	102.21	136.59	0.64
Indigo-MusesC3	4	342.66	137.20	0.74
Indigo-MusesC5	5	345.31	139.08	0.77
Indigo-MusesD	5	286.30	139.19	0.93
Indigo-MusesT	5	335.04	137.77	0.77
LEDBAT	5	9.40	136.65	1.30
PCC-Allegro	5	339.59	144.56	1.07
PCC-Expr	5	162.37	160.66	0.80
QUIC Cubic	5	75.02	137.25	0.89
SCReAM	5	0.22	135.84	0.67
Sprout	5	3.28	135.41	0.78
TaoVA-100x	5	146.35	131.76	0.70
TCP Vegas	5	273.78	138.87	0.70
Verus	5	114.79	227.70	0.61
PCC-Vivace	5	209.02	138.58	0.74
WebRTC media	5	0.05	133.10	0.00

```
Run 1: Statistics of TCP BBR
```

```
Start at: 2019-01-21 21:29:14
End at: 2019-01-21 21:29:44
Local clock offset: 2.279 ms
Remote clock offset: -42.023 ms

# Below is generated by plot.py at 2019-01-22 00:14:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 345.14 Mbit/s
95th percentile per-packet one-way delay: 366.919 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 345.14 Mbit/s
95th percentile per-packet one-way delay: 366.919 ms
Loss rate: 1.75%
```

Run 1: Report of TCP BBR — Data Link

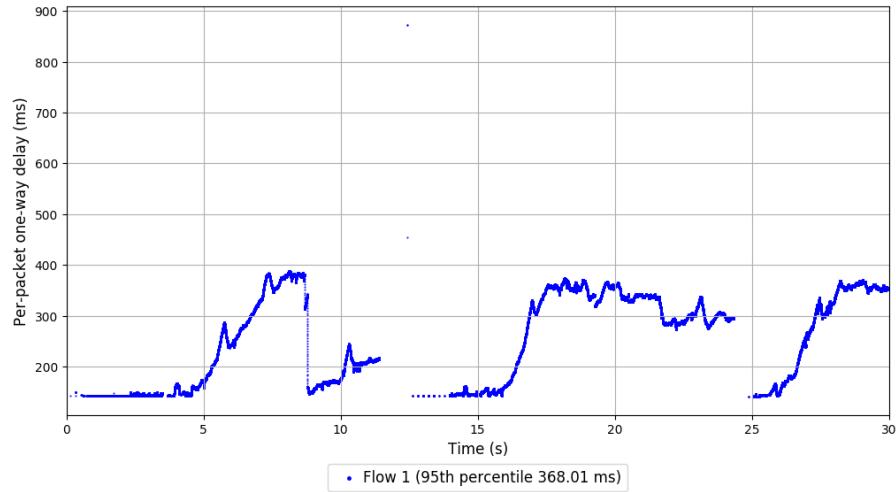
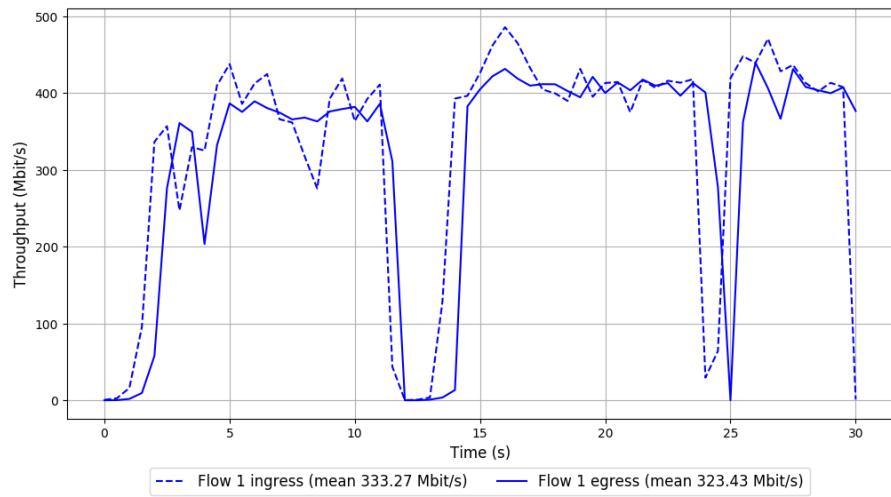


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-21 22:02:25
End at: 2019-01-21 22:02:55
Local clock offset: 1.236 ms
Remote clock offset: -49.379 ms

# Below is generated by plot.py at 2019-01-22 00:14:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 323.43 Mbit/s
95th percentile per-packet one-way delay: 368.010 ms
Loss rate: 3.59%
-- Flow 1:
Average throughput: 323.43 Mbit/s
95th percentile per-packet one-way delay: 368.010 ms
Loss rate: 3.59%
```

Run 2: Report of TCP BBR — Data Link

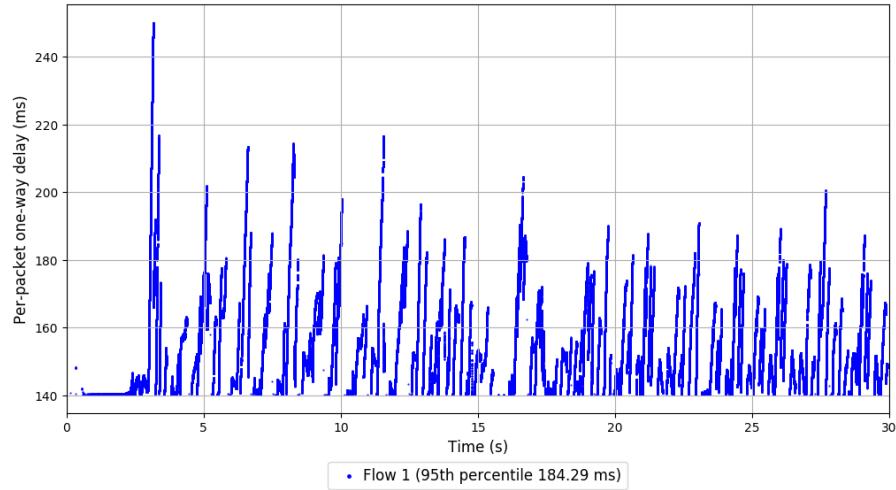
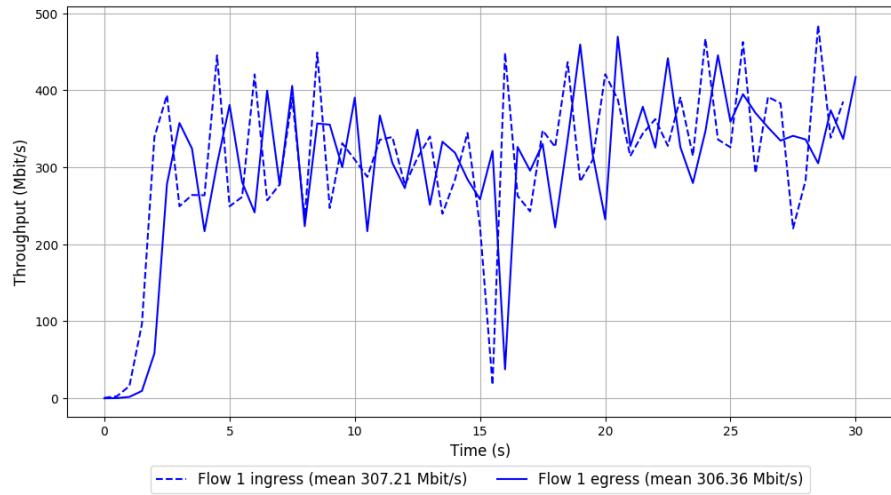


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-21 22:45:36
End at: 2019-01-21 22:46:06
Local clock offset: 0.157 ms
Remote clock offset: -46.437 ms

# Below is generated by plot.py at 2019-01-22 00:14:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.36 Mbit/s
95th percentile per-packet one-way delay: 184.288 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 306.36 Mbit/s
95th percentile per-packet one-way delay: 184.288 ms
Loss rate: 0.69%
```

Run 3: Report of TCP BBR — Data Link

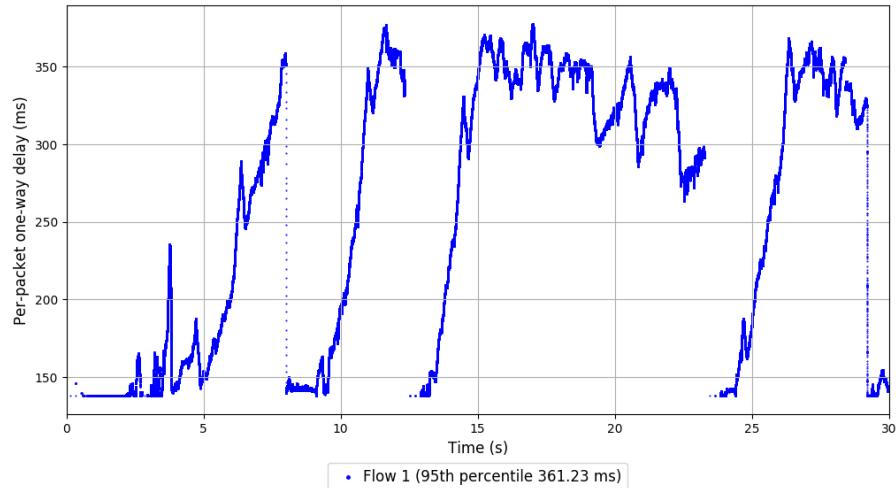
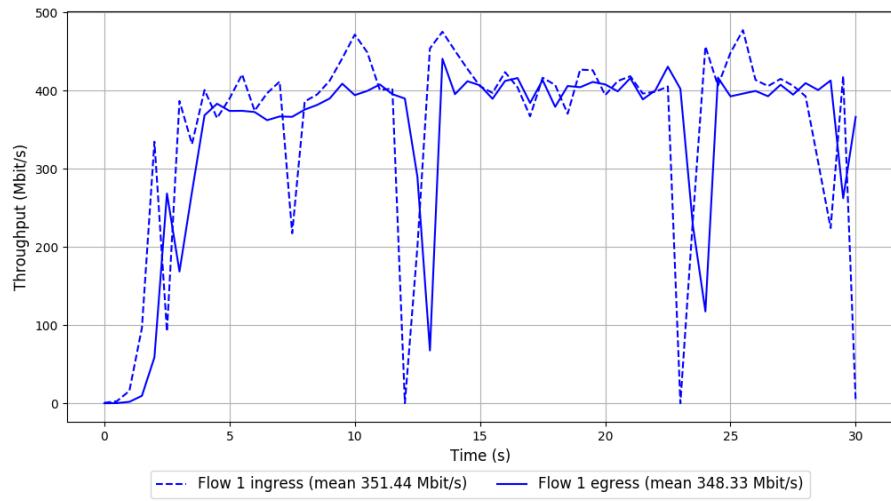


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-21 23:19:12
End at: 2019-01-21 23:19:42
Local clock offset: 2.315 ms
Remote clock offset: -42.197 ms

# Below is generated by plot.py at 2019-01-22 00:14:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 348.33 Mbit/s
95th percentile per-packet one-way delay: 361.225 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 348.33 Mbit/s
95th percentile per-packet one-way delay: 361.225 ms
Loss rate: 1.54%
```

Run 4: Report of TCP BBR — Data Link

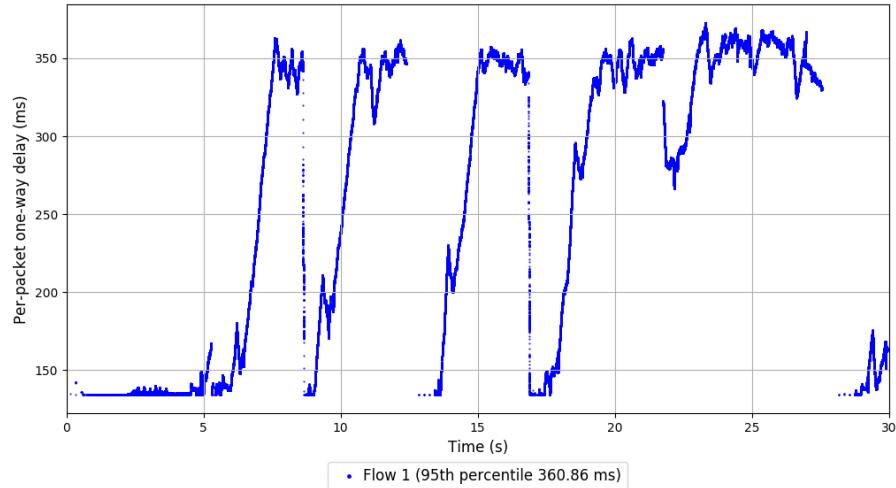
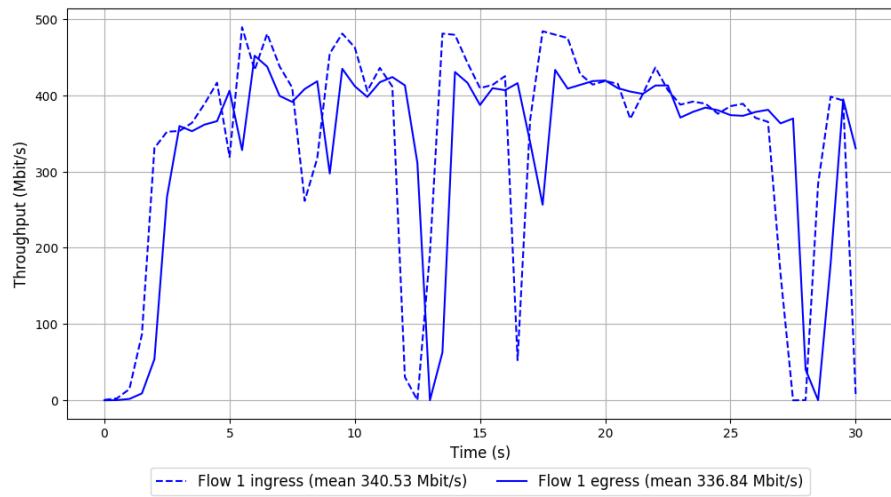


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-21 23:47:36
End at: 2019-01-21 23:48:06
Local clock offset: 1.154 ms
Remote clock offset: -39.023 ms

# Below is generated by plot.py at 2019-01-22 00:14:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.84 Mbit/s
95th percentile per-packet one-way delay: 360.858 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 336.84 Mbit/s
95th percentile per-packet one-way delay: 360.858 ms
Loss rate: 1.76%
```

Run 5: Report of TCP BBR — Data Link

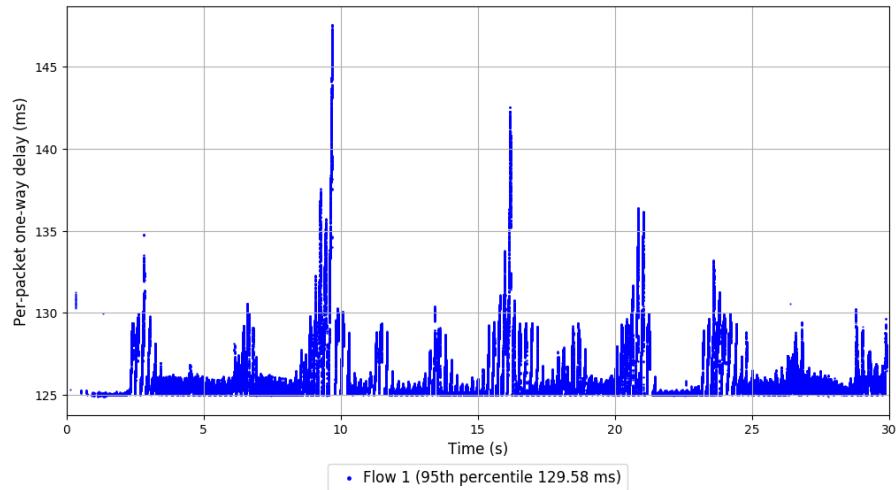
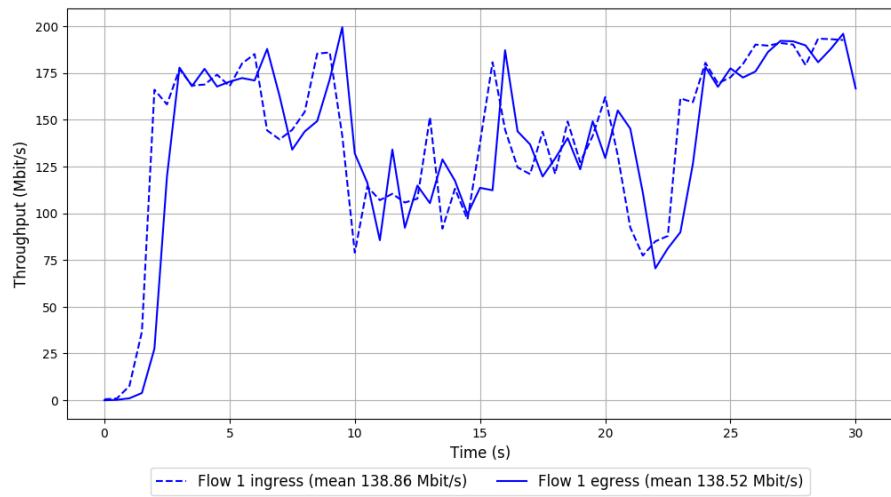


Run 1: Statistics of Copa

```
Start at: 2019-01-21 21:09:39
End at: 2019-01-21 21:10:09
Local clock offset: 0.289 ms
Remote clock offset: -33.72 ms

# Below is generated by plot.py at 2019-01-22 00:14:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 138.52 Mbit/s
95th percentile per-packet one-way delay: 129.582 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 138.52 Mbit/s
95th percentile per-packet one-way delay: 129.582 ms
Loss rate: 0.89%
```

Run 1: Report of Copa — Data Link

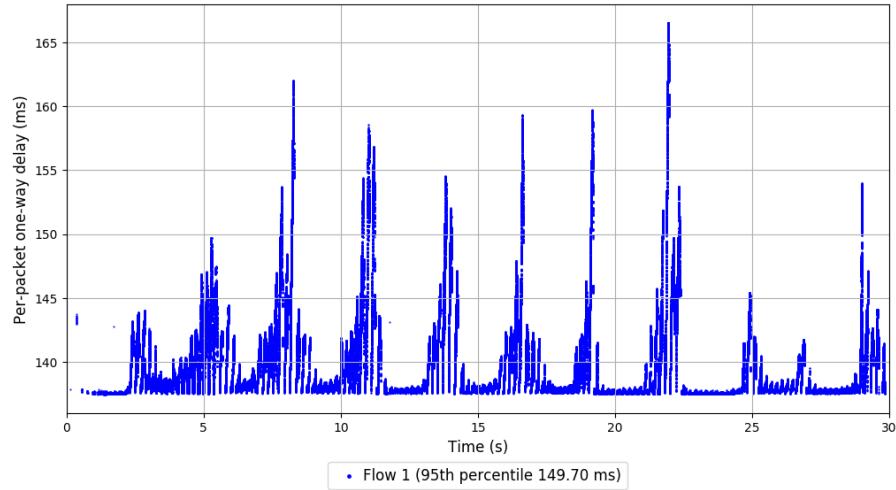
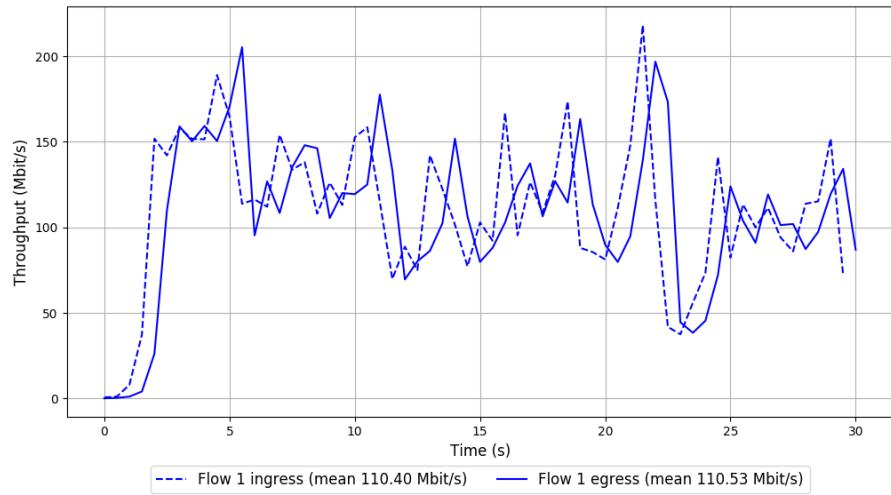


Run 2: Statistics of Copa

```
Start at: 2019-01-21 21:49:44
End at: 2019-01-21 21:50:14
Local clock offset: 1.762 ms
Remote clock offset: -44.003 ms

# Below is generated by plot.py at 2019-01-22 00:14:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 110.53 Mbit/s
95th percentile per-packet one-way delay: 149.696 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 110.53 Mbit/s
95th percentile per-packet one-way delay: 149.696 ms
Loss rate: 0.54%
```

Run 2: Report of Copa — Data Link

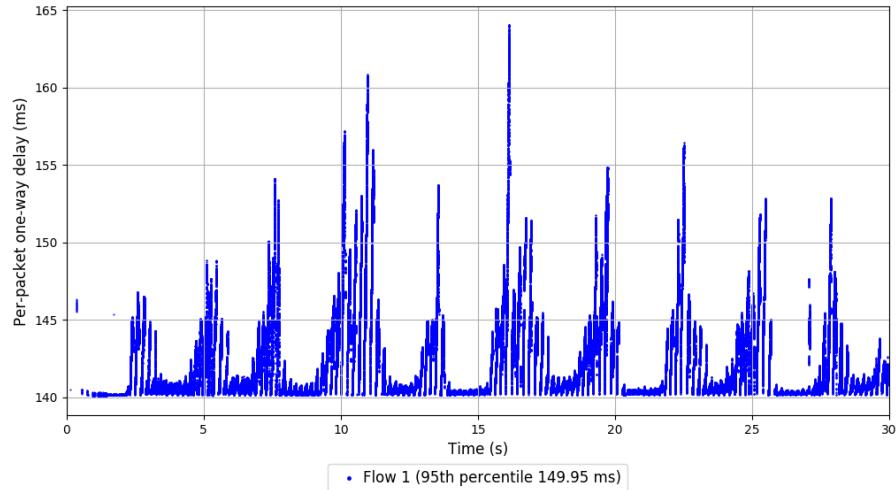
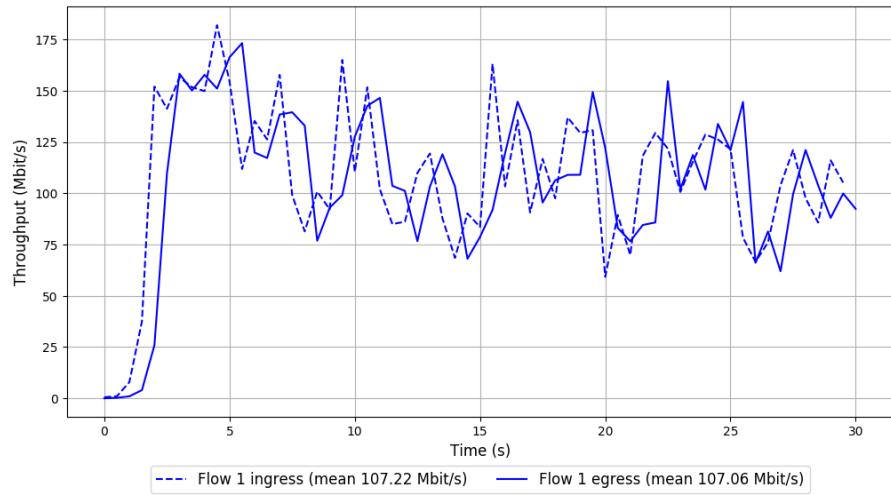


Run 3: Statistics of Copa

```
Start at: 2019-01-21 22:27:51
End at: 2019-01-21 22:28:21
Local clock offset: 0.768 ms
Remote clock offset: -46.387 ms

# Below is generated by plot.py at 2019-01-22 00:14:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 107.06 Mbit/s
95th percentile per-packet one-way delay: 149.954 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 107.06 Mbit/s
95th percentile per-packet one-way delay: 149.954 ms
Loss rate: 0.80%
```

Run 3: Report of Copa — Data Link

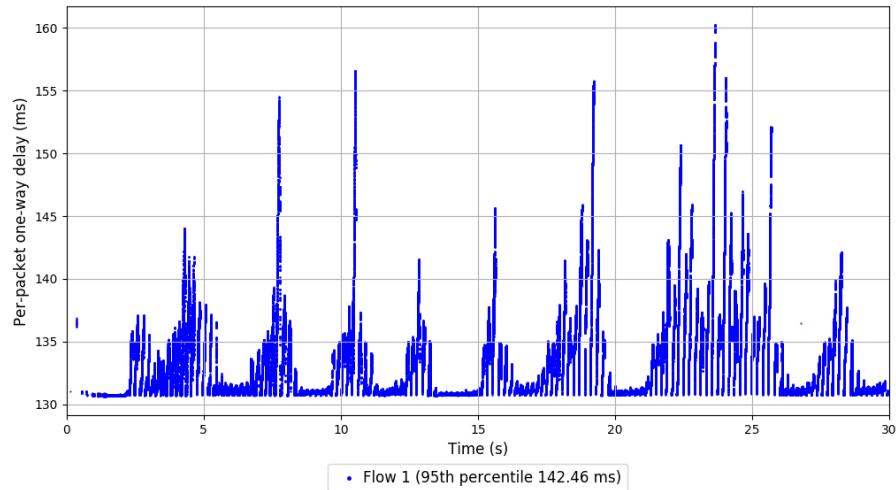
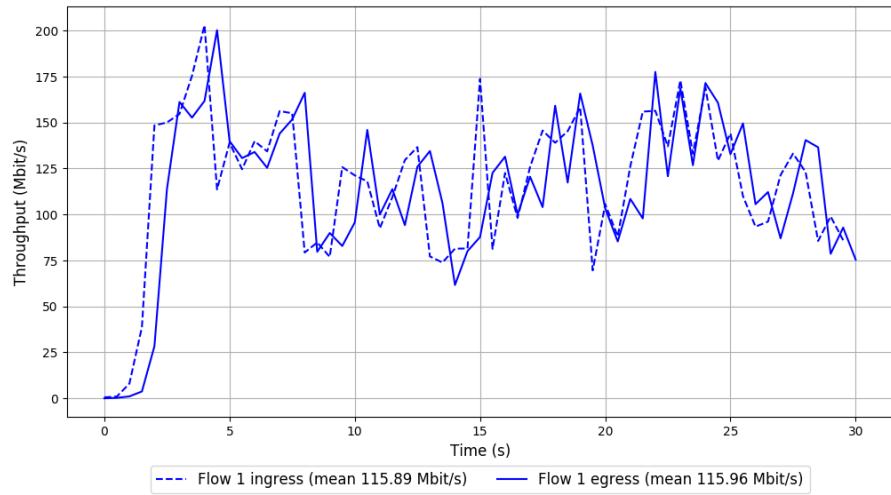


Run 4: Statistics of Copa

```
Start at: 2019-01-21 23:11:00
End at: 2019-01-21 23:11:31
Local clock offset: 0.492 ms
Remote clock offset: -38.862 ms

# Below is generated by plot.py at 2019-01-22 00:14:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 115.96 Mbit/s
95th percentile per-packet one-way delay: 142.463 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 115.96 Mbit/s
95th percentile per-packet one-way delay: 142.463 ms
Loss rate: 0.58%
```

Run 4: Report of Copa — Data Link

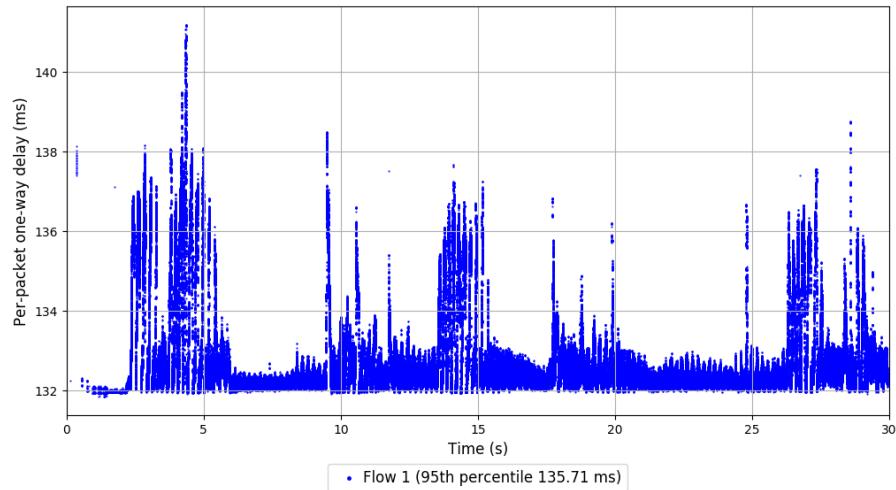
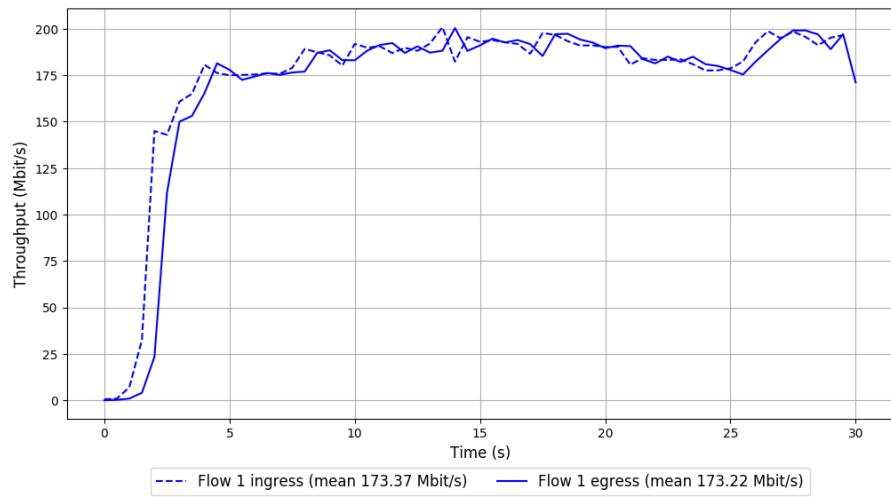


Run 5: Statistics of Copa

```
Start at: 2019-01-21 23:39:24
End at: 2019-01-21 23:39:54
Local clock offset: 0.316 ms
Remote clock offset: -37.107 ms

# Below is generated by plot.py at 2019-01-22 00:16:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.22 Mbit/s
95th percentile per-packet one-way delay: 135.707 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 173.22 Mbit/s
95th percentile per-packet one-way delay: 135.707 ms
Loss rate: 0.74%
```

Run 5: Report of Copa — Data Link

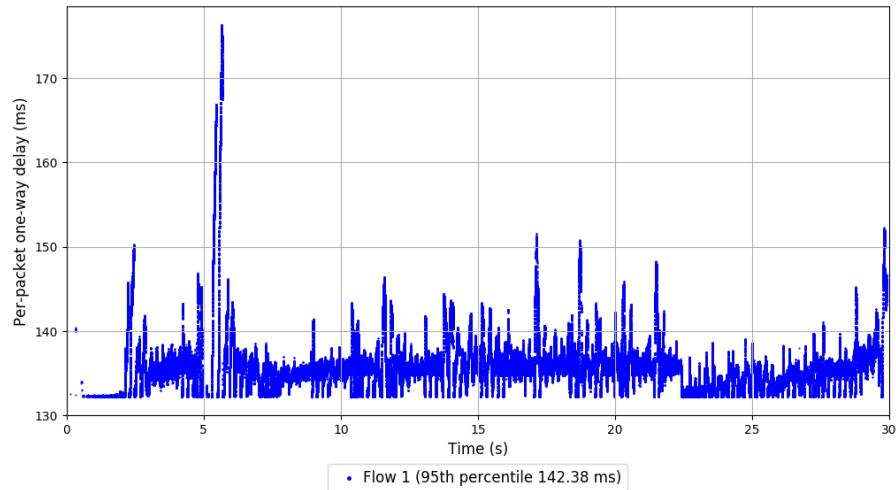
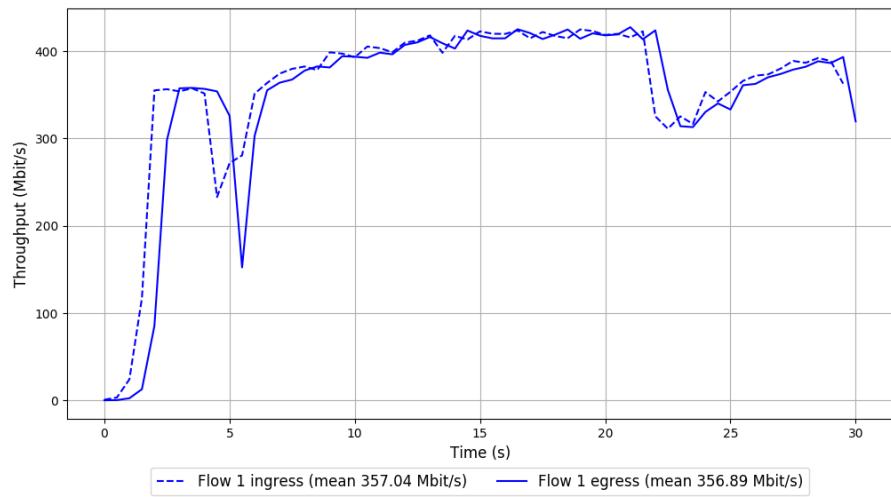


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-21 21:32:35
End at: 2019-01-21 21:33:05
Local clock offset: 0.437 ms
Remote clock offset: -40.071 ms

# Below is generated by plot.py at 2019-01-22 00:17:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.89 Mbit/s
95th percentile per-packet one-way delay: 142.385 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 356.89 Mbit/s
95th percentile per-packet one-way delay: 142.385 ms
Loss rate: 0.70%
```

Run 1: Report of TCP Cubic — Data Link

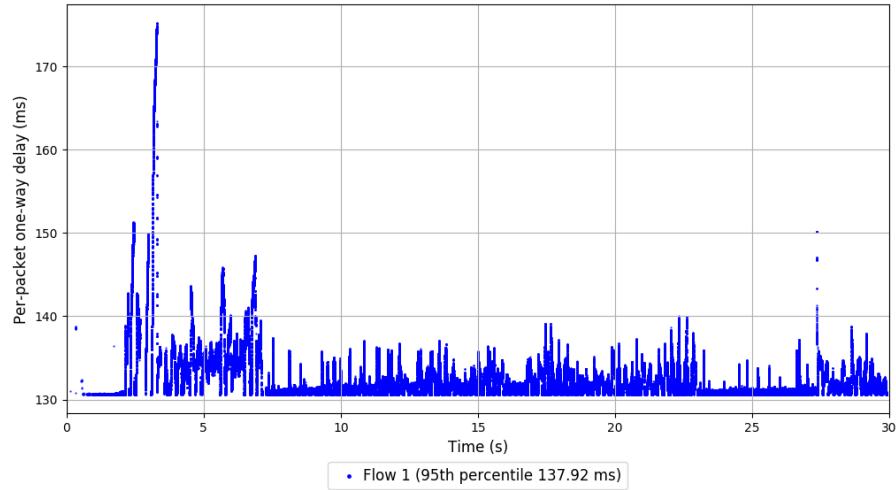
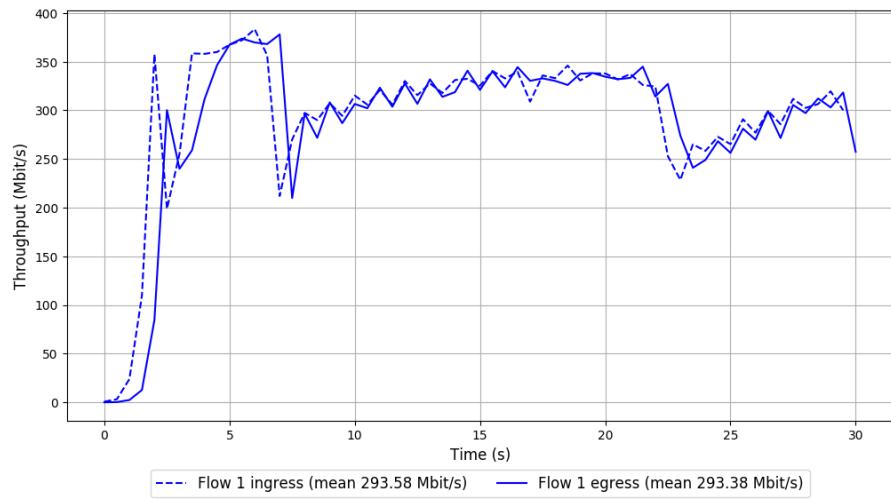


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-21 22:05:14
End at: 2019-01-21 22:05:44
Local clock offset: -1.257 ms
Remote clock offset: -40.044 ms

# Below is generated by plot.py at 2019-01-22 00:17:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.38 Mbit/s
95th percentile per-packet one-way delay: 137.920 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 293.38 Mbit/s
95th percentile per-packet one-way delay: 137.920 ms
Loss rate: 0.71%
```

Run 2: Report of TCP Cubic — Data Link

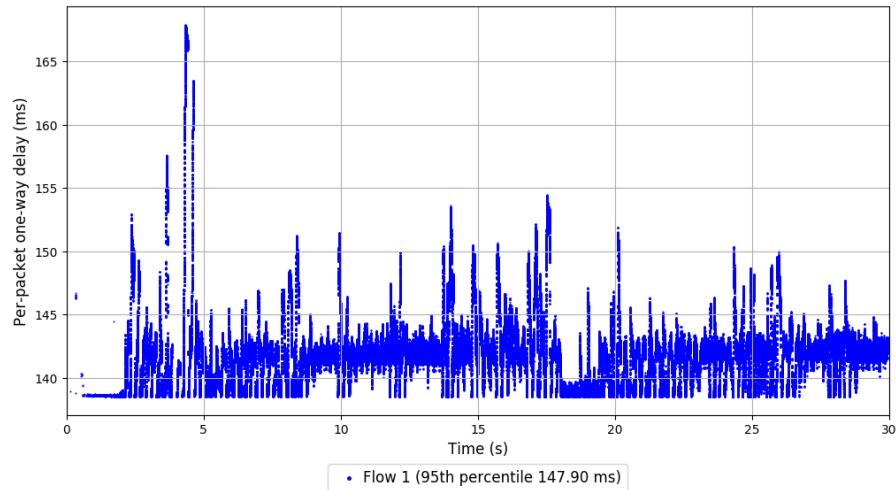
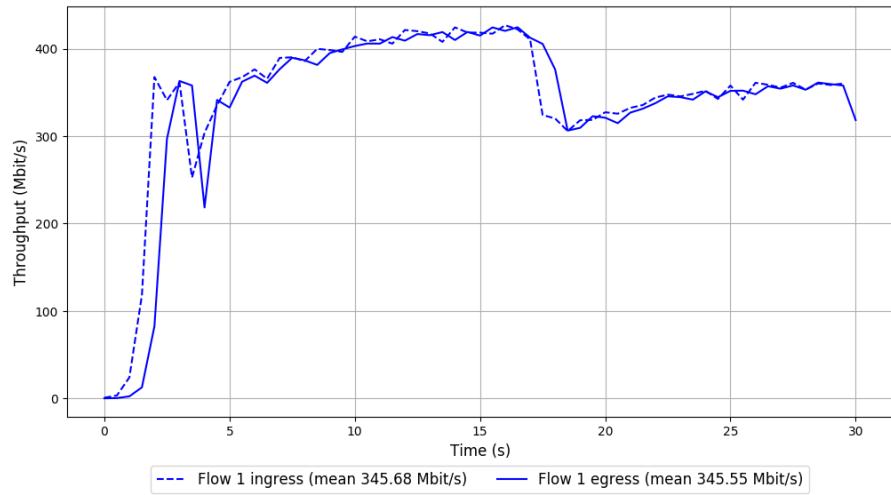


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-21 22:48:25
End at: 2019-01-21 22:48:55
Local clock offset: -0.434 ms
Remote clock offset: -45.758 ms

# Below is generated by plot.py at 2019-01-22 00:17:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 345.55 Mbit/s
95th percentile per-packet one-way delay: 147.896 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 345.55 Mbit/s
95th percentile per-packet one-way delay: 147.896 ms
Loss rate: 0.69%
```

Run 3: Report of TCP Cubic — Data Link

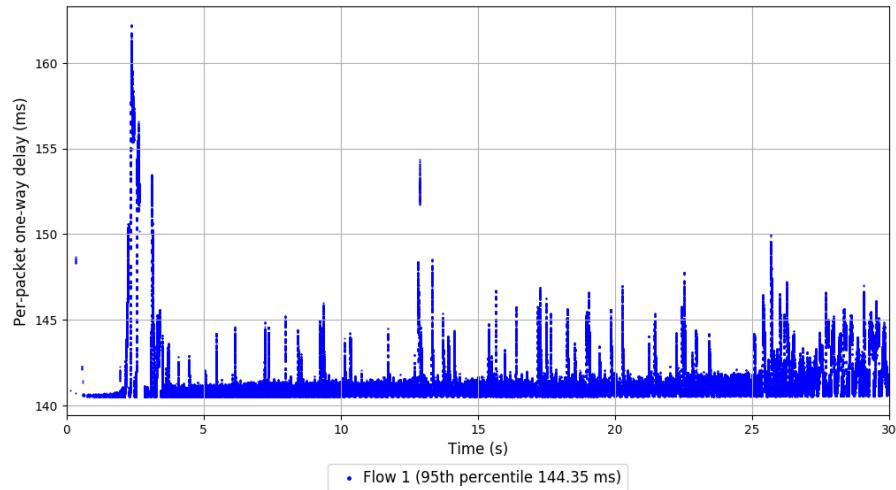
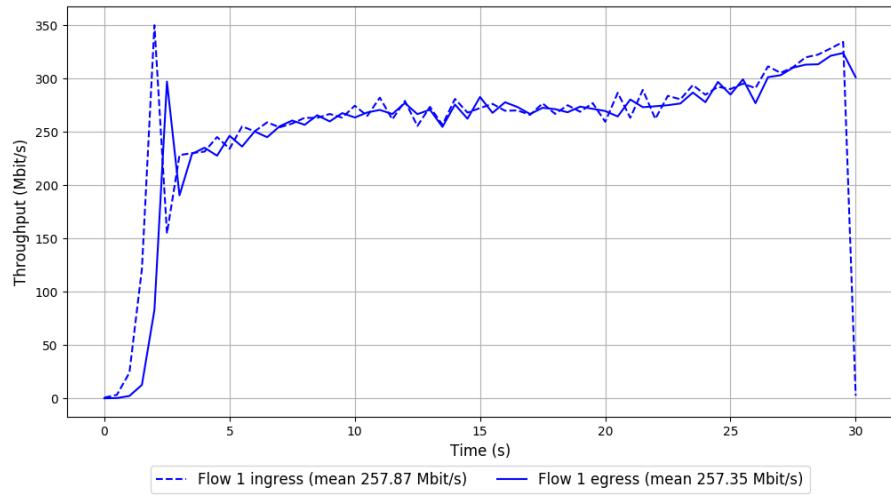


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-21 23:22:03
End at: 2019-01-21 23:22:33
Local clock offset: 1.252 ms
Remote clock offset: -45.659 ms

# Below is generated by plot.py at 2019-01-22 00:17:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.35 Mbit/s
95th percentile per-packet one-way delay: 144.352 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 257.35 Mbit/s
95th percentile per-packet one-way delay: 144.352 ms
Loss rate: 0.86%
```

Run 4: Report of TCP Cubic — Data Link

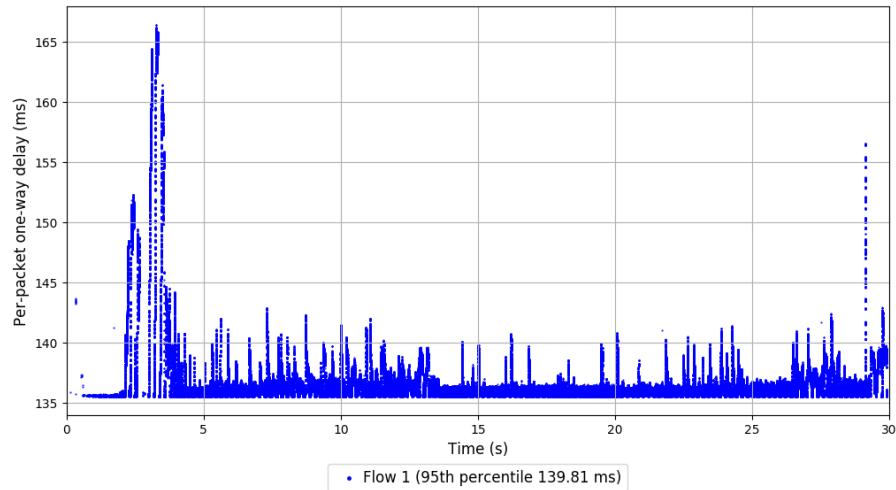
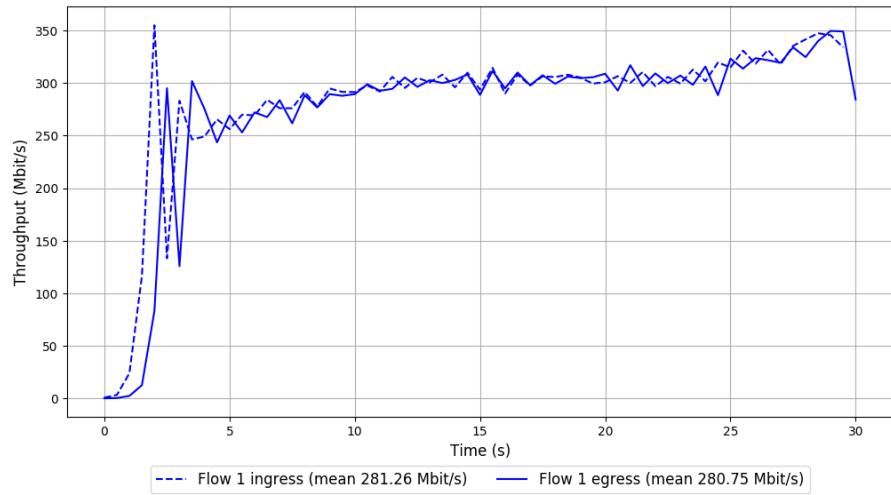


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-21 23:50:22
End at: 2019-01-21 23:50:52
Local clock offset: 0.912 ms
Remote clock offset: -40.548 ms

# Below is generated by plot.py at 2019-01-22 00:17:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 280.75 Mbit/s
95th percentile per-packet one-way delay: 139.810 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 280.75 Mbit/s
95th percentile per-packet one-way delay: 139.810 ms
Loss rate: 0.84%
```

Run 5: Report of TCP Cubic — Data Link

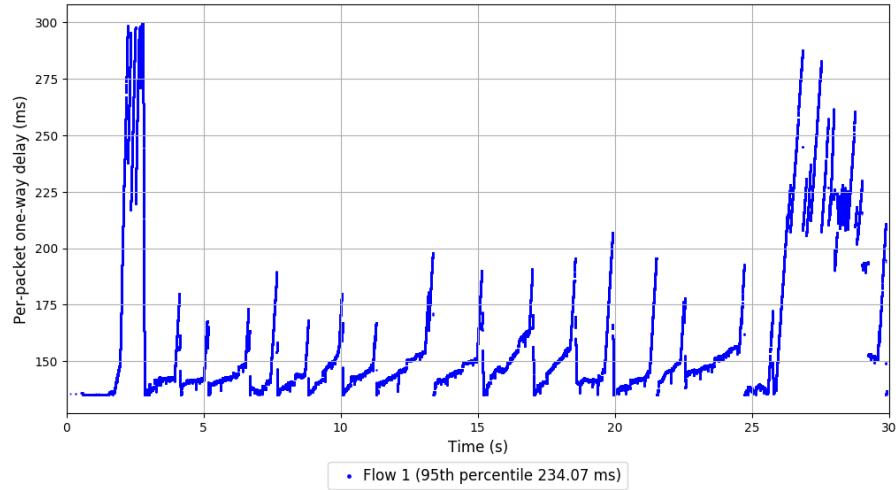
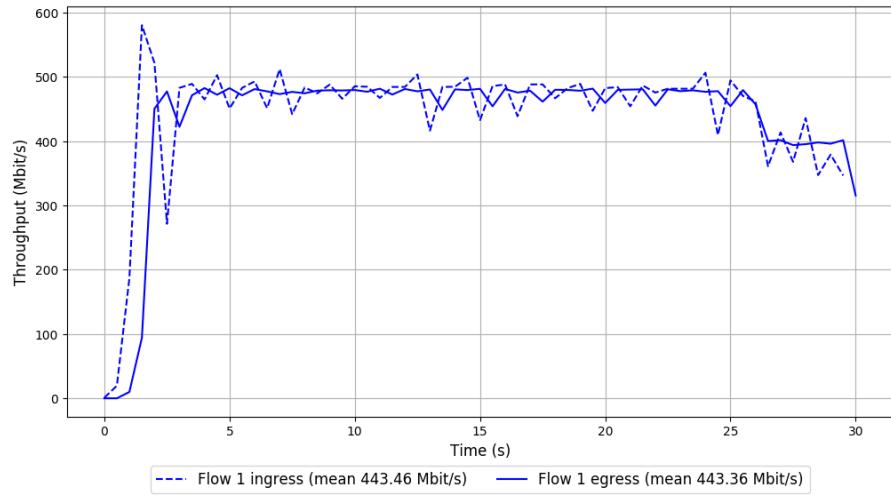


```
Run 1: Statistics of FillP

Start at: 2019-01-21 21:07:01
End at: 2019-01-21 21:07:31
Local clock offset: 0.248 ms
Remote clock offset: -44.068 ms

# Below is generated by plot.py at 2019-01-22 00:19:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 443.36 Mbit/s
95th percentile per-packet one-way delay: 234.069 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 443.36 Mbit/s
95th percentile per-packet one-way delay: 234.069 ms
Loss rate: 0.69%
```

Run 1: Report of FillP — Data Link

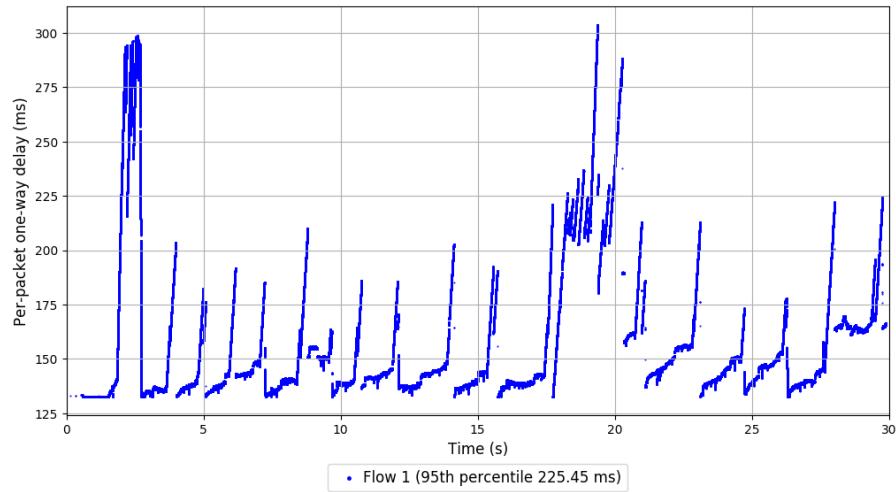
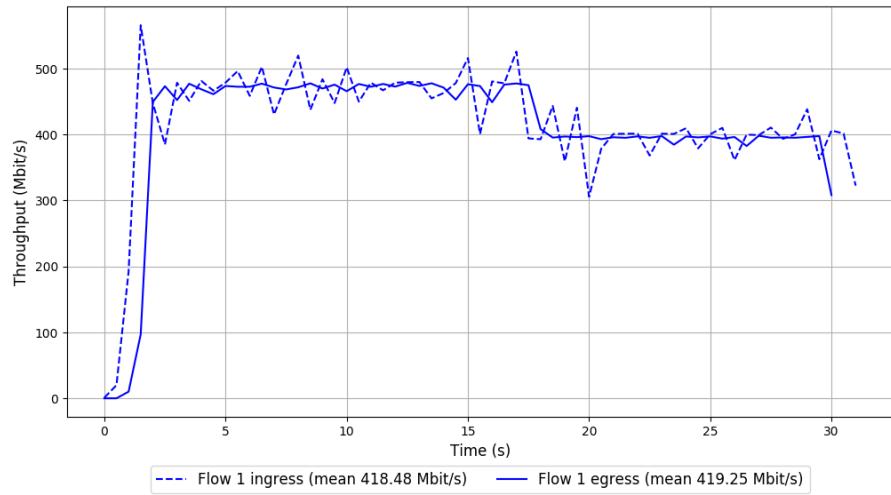


```
Run 2: Statistics of FillP
```

```
Start at: 2019-01-21 21:47:07
End at: 2019-01-21 21:47:37
Local clock offset: -1.074 ms
Remote clock offset: -42.018 ms

# Below is generated by plot.py at 2019-01-22 00:20:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 419.25 Mbit/s
95th percentile per-packet one-way delay: 225.453 ms
Loss rate: 5.21%
-- Flow 1:
Average throughput: 419.25 Mbit/s
95th percentile per-packet one-way delay: 225.453 ms
Loss rate: 5.21%
```

Run 2: Report of FillP — Data Link

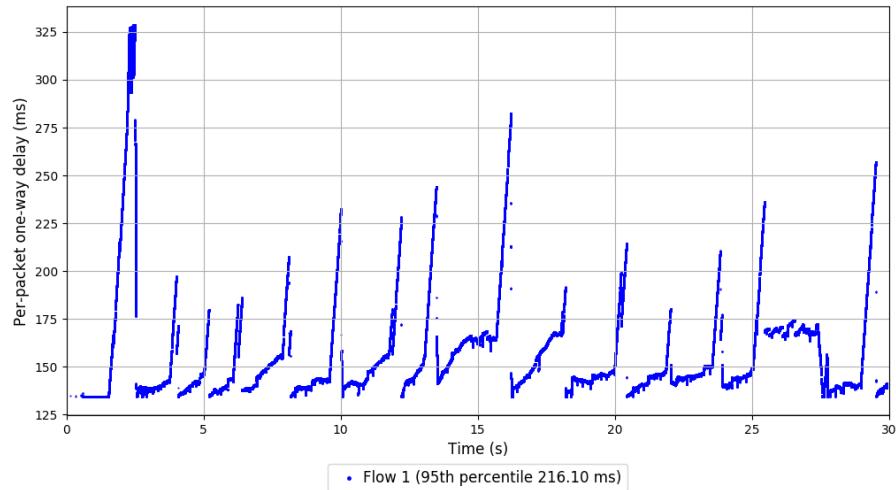
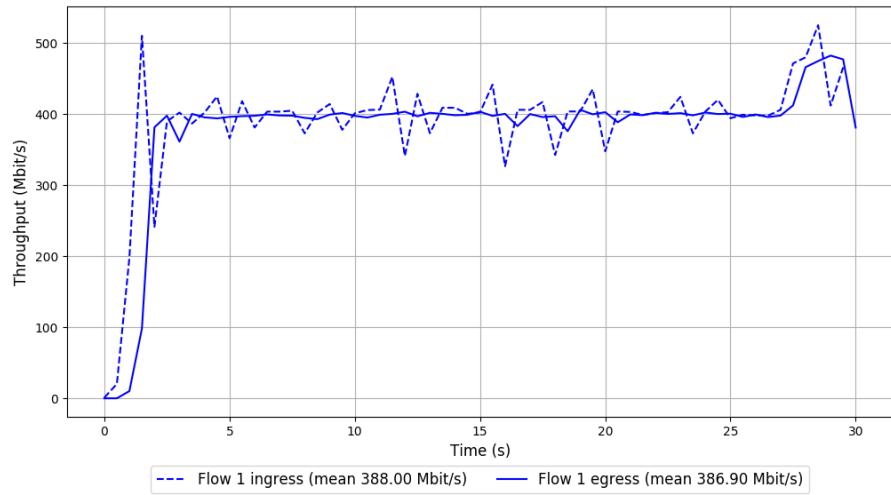


```
Run 3: Statistics of FillP
```

```
Start at: 2019-01-21 22:25:16
End at: 2019-01-21 22:25:46
Local clock offset: 1.86 ms
Remote clock offset: -41.093 ms

# Below is generated by plot.py at 2019-01-22 00:21:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 386.90 Mbit/s
95th percentile per-packet one-way delay: 216.096 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 386.90 Mbit/s
95th percentile per-packet one-way delay: 216.096 ms
Loss rate: 0.94%
```

Run 3: Report of FillP — Data Link

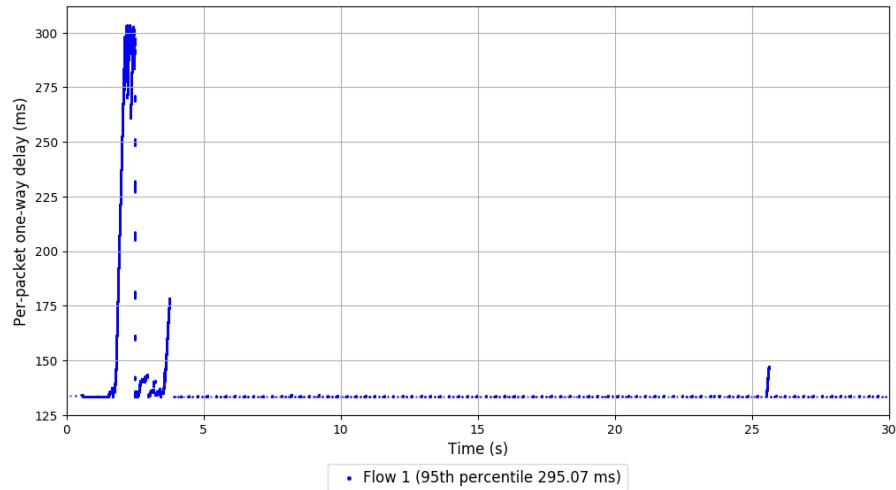
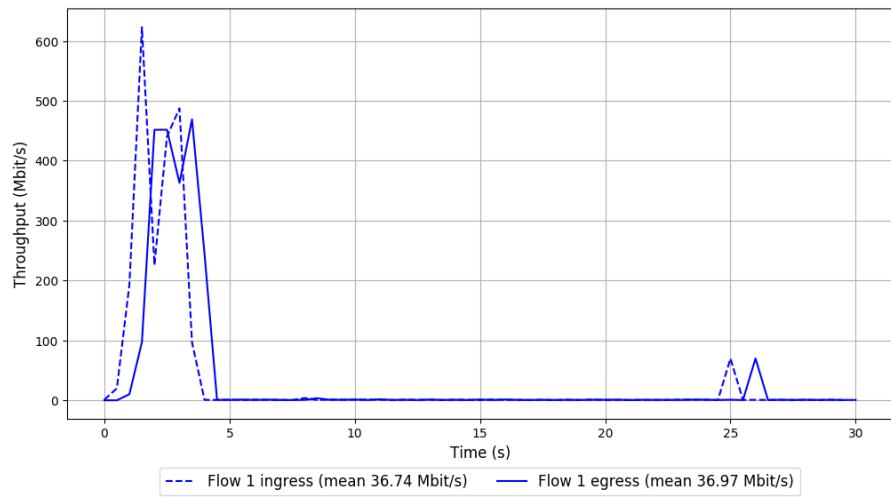


Run 4: Statistics of FillP

```
Start at: 2019-01-21 23:08:38
End at: 2019-01-21 23:09:08
Local clock offset: 0.326 ms
Remote clock offset: -40.437 ms

# Below is generated by plot.py at 2019-01-22 00:21:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.97 Mbit/s
95th percentile per-packet one-way delay: 295.070 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 36.97 Mbit/s
95th percentile per-packet one-way delay: 295.070 ms
Loss rate: 0.03%
```

Run 4: Report of FillP — Data Link

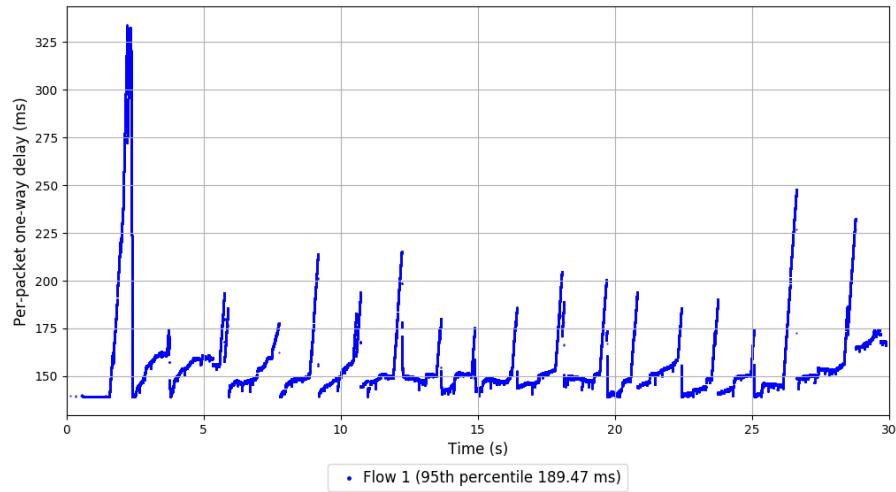
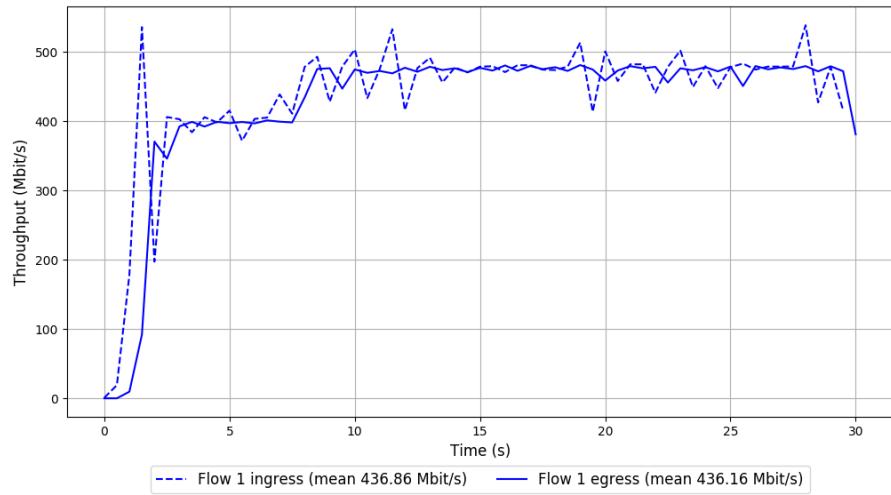


Run 5: Statistics of FillP

```
Start at: 2019-01-21 23:36:47
End at: 2019-01-21 23:37:18
Local clock offset: 1.879 ms
Remote clock offset: -42.892 ms

# Below is generated by plot.py at 2019-01-22 00:22:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 436.16 Mbit/s
95th percentile per-packet one-way delay: 189.470 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 436.16 Mbit/s
95th percentile per-packet one-way delay: 189.470 ms
Loss rate: 0.82%
```

Run 5: Report of FillP — Data Link

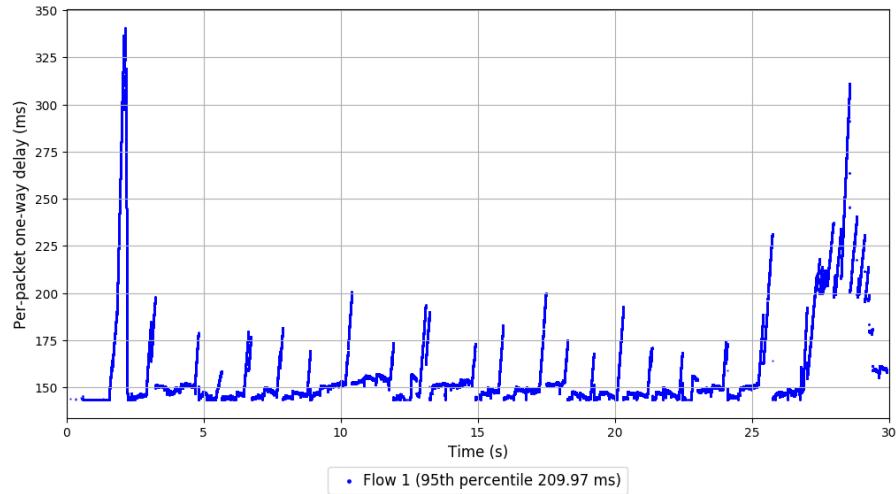
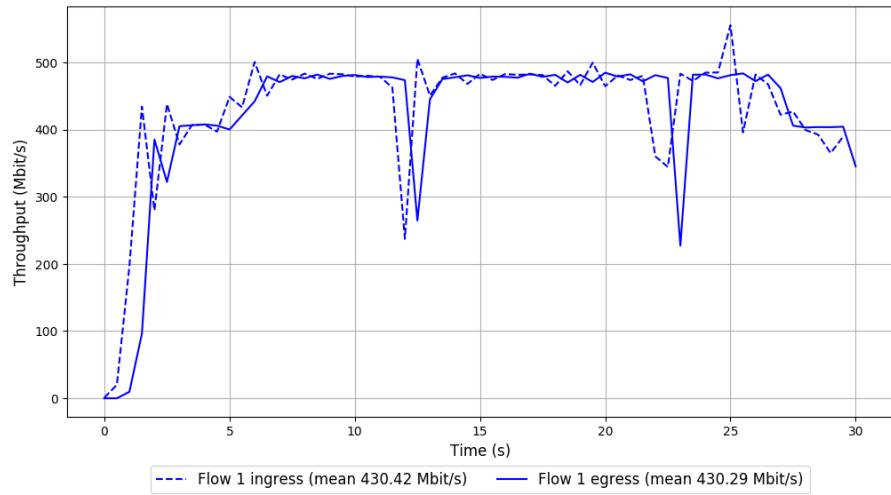


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-21 21:35:24
End at: 2019-01-21 21:35:54
Local clock offset: -0.536 ms
Remote clock offset: -54.089 ms

# Below is generated by plot.py at 2019-01-22 00:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 430.29 Mbit/s
95th percentile per-packet one-way delay: 209.975 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 430.29 Mbit/s
95th percentile per-packet one-way delay: 209.975 ms
Loss rate: 0.69%
```

Run 1: Report of FillP-Sheep — Data Link

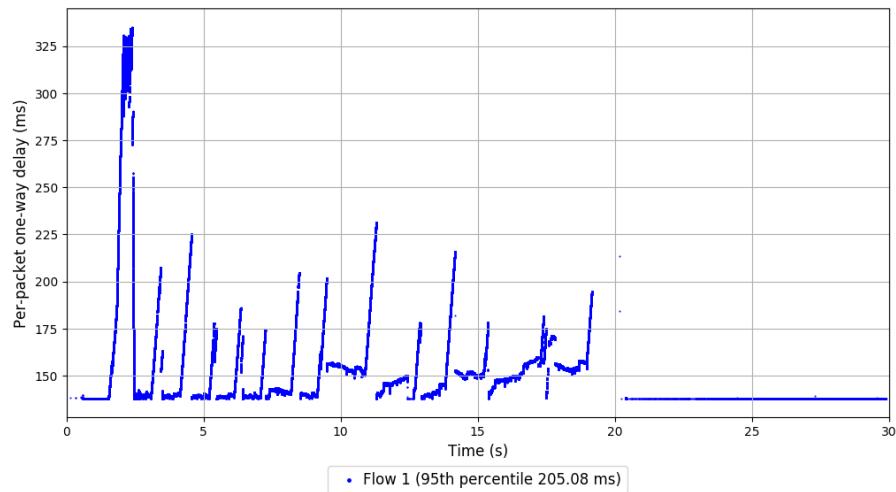
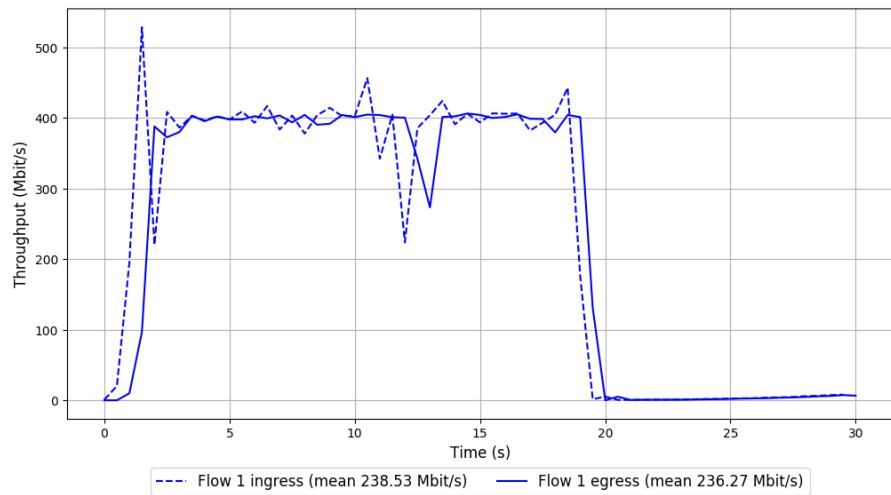


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-21 22:08:01
End at: 2019-01-21 22:08:31
Local clock offset: 0.787 ms
Remote clock offset: -46.722 ms

# Below is generated by plot.py at 2019-01-22 00:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 236.27 Mbit/s
95th percentile per-packet one-way delay: 205.079 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 236.27 Mbit/s
95th percentile per-packet one-way delay: 205.079 ms
Loss rate: 1.59%
```

Run 2: Report of FillP-Sheep — Data Link

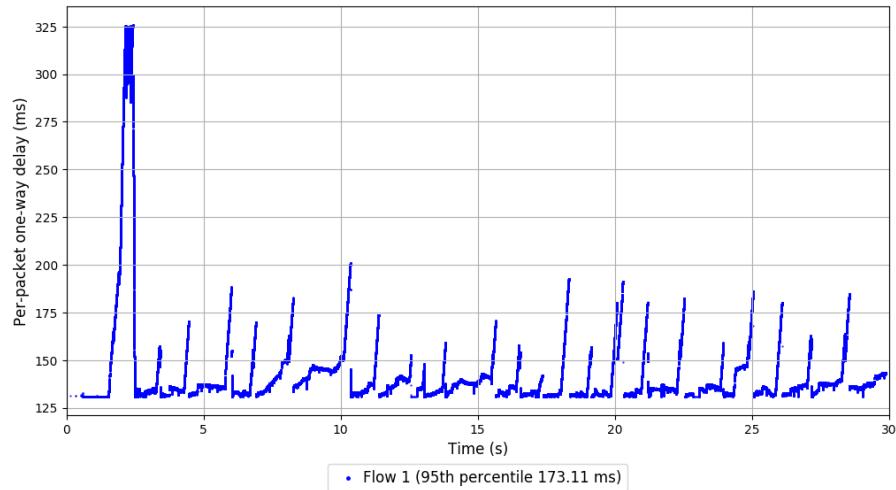
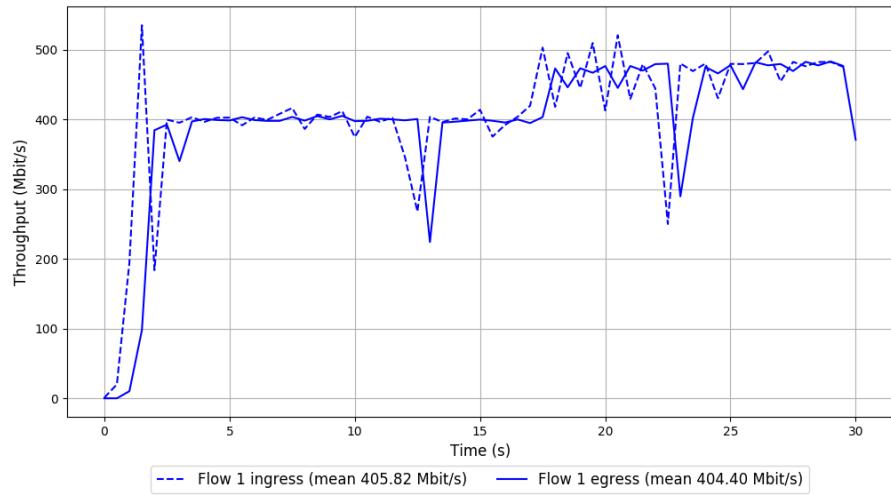


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-21 22:51:14
End at: 2019-01-21 22:51:44
Local clock offset: -1.64 ms
Remote clock offset: -41.083 ms

# Below is generated by plot.py at 2019-01-22 00:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 404.40 Mbit/s
95th percentile per-packet one-way delay: 173.111 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 404.40 Mbit/s
95th percentile per-packet one-way delay: 173.111 ms
Loss rate: 1.01%
```

Run 3: Report of FillP-Sheep — Data Link

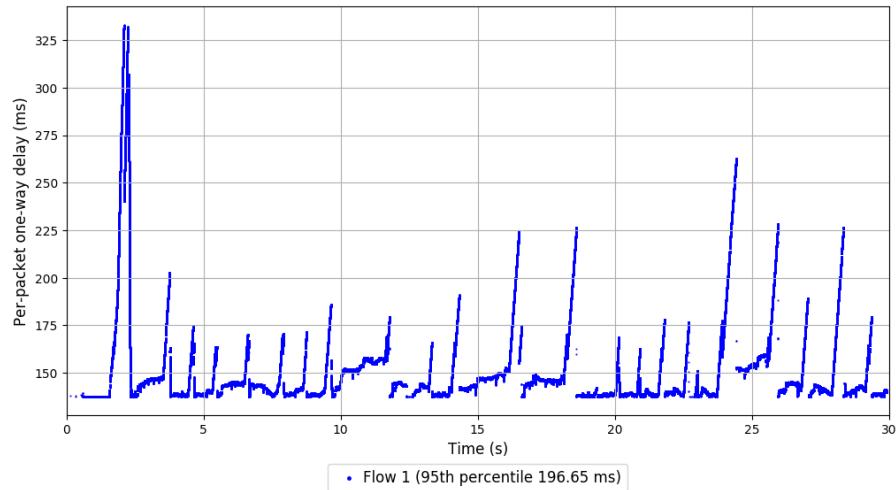
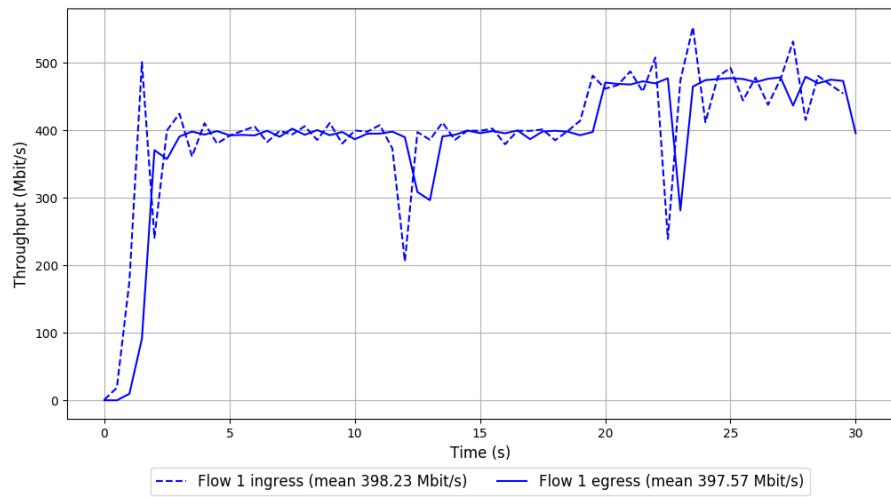


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-21 23:24:49
End at: 2019-01-21 23:25:19
Local clock offset: 1.174 ms
Remote clock offset: -44.229 ms

# Below is generated by plot.py at 2019-01-22 00:22:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 397.57 Mbit/s
95th percentile per-packet one-way delay: 196.653 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 397.57 Mbit/s
95th percentile per-packet one-way delay: 196.653 ms
Loss rate: 0.82%
```

Run 4: Report of FillP-Sheep — Data Link

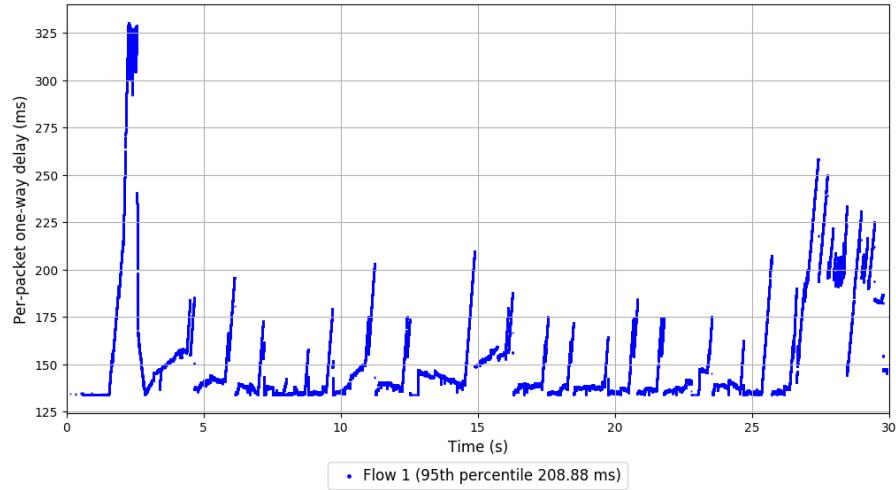
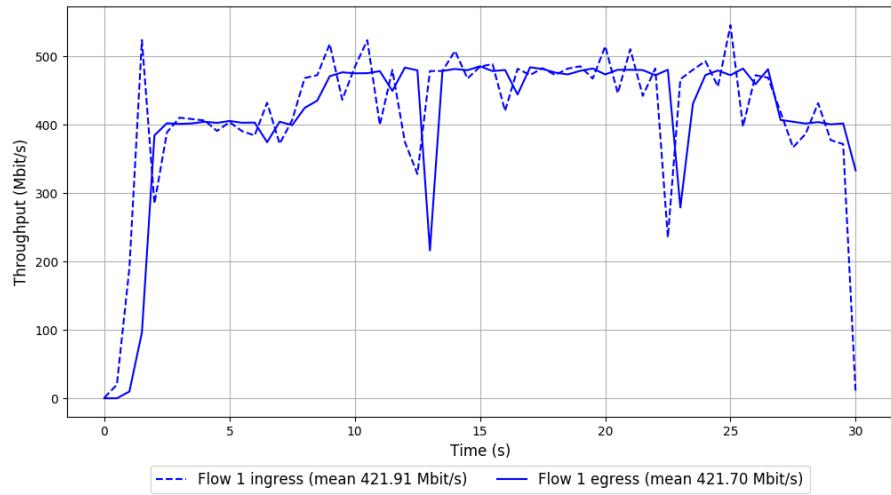


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-21 23:53:09
End at: 2019-01-21 23:53:39
Local clock offset: 0.139 ms
Remote clock offset: -39.901 ms

# Below is generated by plot.py at 2019-01-22 00:25:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 421.70 Mbit/s
95th percentile per-packet one-way delay: 208.877 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 421.70 Mbit/s
95th percentile per-packet one-way delay: 208.877 ms
Loss rate: 0.81%
```

Run 5: Report of FillP-Sheep — Data Link

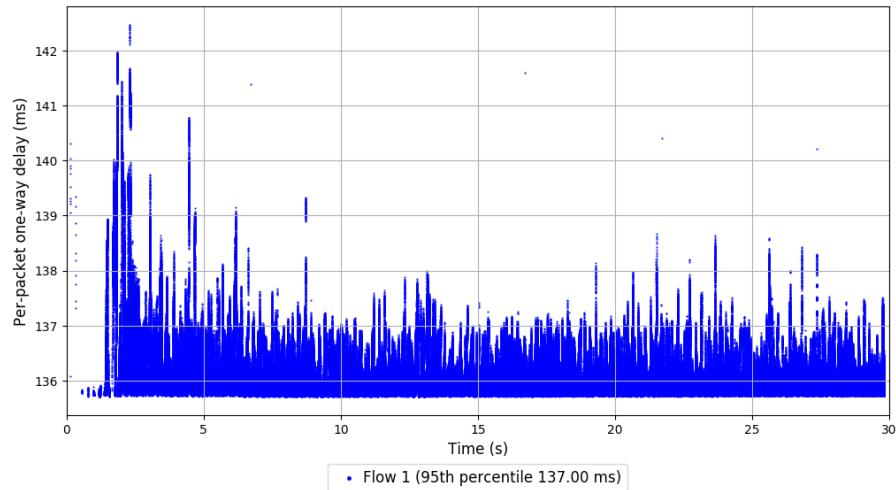
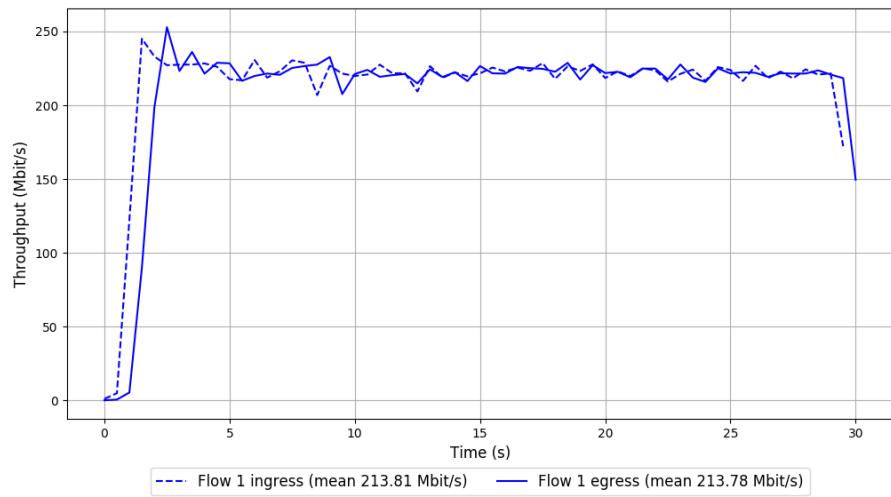


Run 1: Statistics of Indigo

```
Start at: 2019-01-21 21:11:01
End at: 2019-01-21 21:11:31
Local clock offset: 0.277 ms
Remote clock offset: -44.622 ms

# Below is generated by plot.py at 2019-01-22 00:25:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.78 Mbit/s
95th percentile per-packet one-way delay: 137.003 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 213.78 Mbit/s
95th percentile per-packet one-way delay: 137.003 ms
Loss rate: 0.67%
```

Run 1: Report of Indigo — Data Link

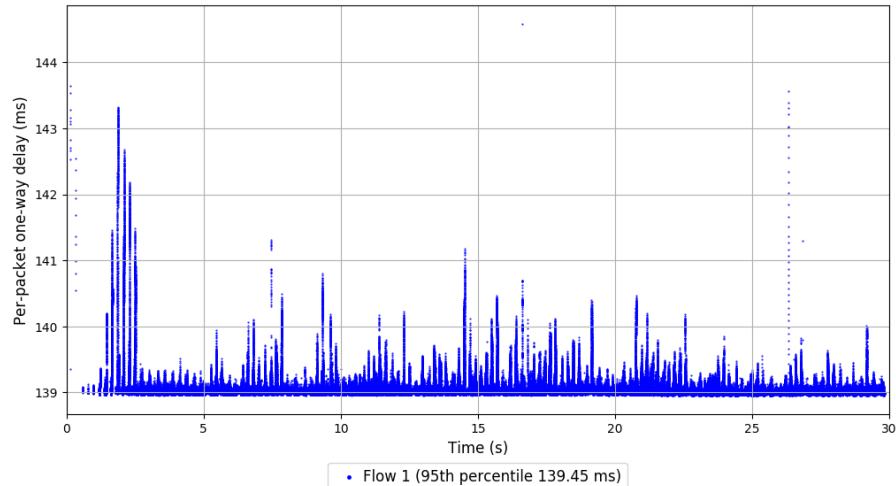
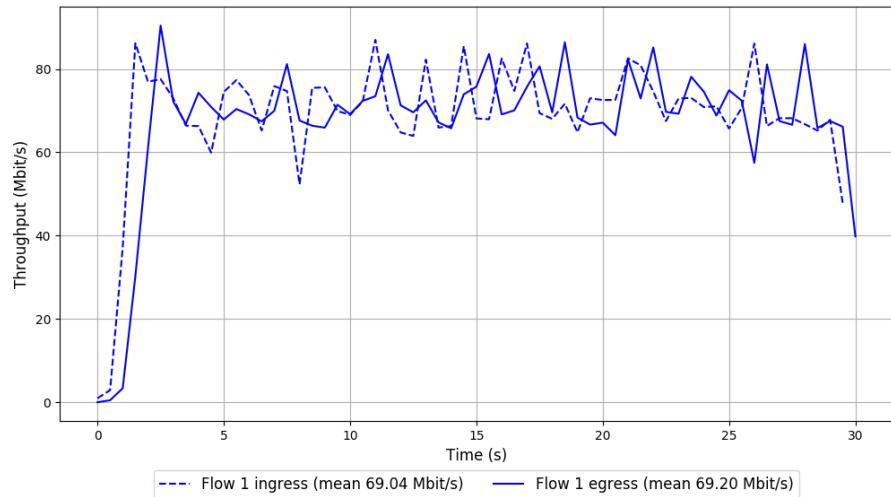


Run 2: Statistics of Indigo

```
Start at: 2019-01-21 21:51:04
End at: 2019-01-21 21:51:34
Local clock offset: 0.077 ms
Remote clock offset: -47.095 ms

# Below is generated by plot.py at 2019-01-22 00:25:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.20 Mbit/s
95th percentile per-packet one-way delay: 139.453 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 69.20 Mbit/s
95th percentile per-packet one-way delay: 139.453 ms
Loss rate: 0.43%
```

Run 2: Report of Indigo — Data Link

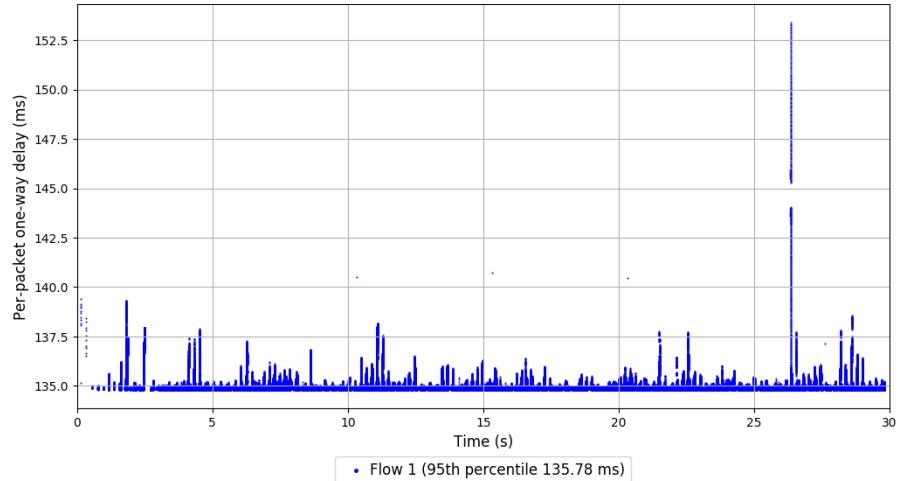
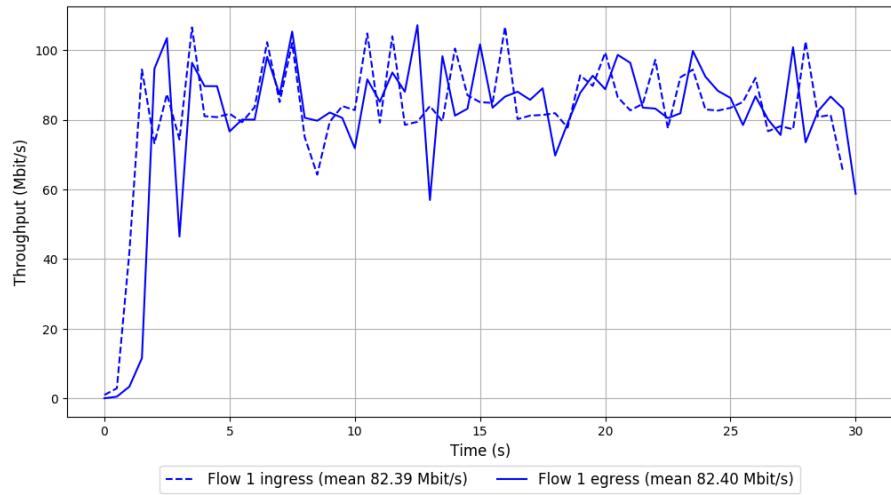


Run 3: Statistics of Indigo

```
Start at: 2019-01-21 22:38:39
End at: 2019-01-21 22:39:09
Local clock offset: 1.162 ms
Remote clock offset: -41.915 ms

# Below is generated by plot.py at 2019-01-22 00:25:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.40 Mbit/s
95th percentile per-packet one-way delay: 135.785 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 82.40 Mbit/s
95th percentile per-packet one-way delay: 135.785 ms
Loss rate: 0.63%
```

Run 3: Report of Indigo — Data Link

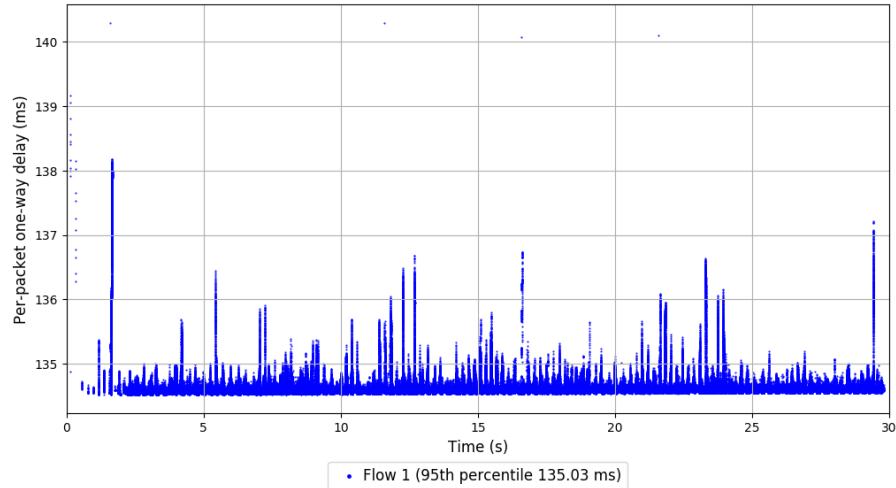
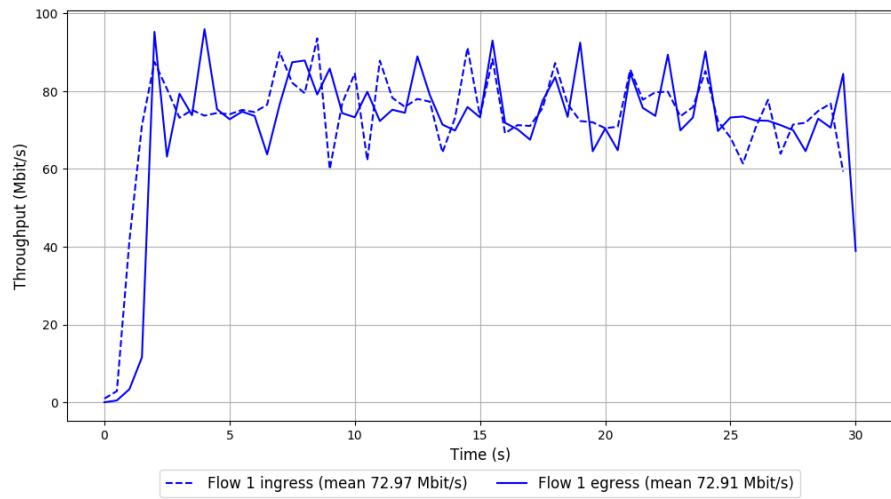


Run 4: Statistics of Indigo

```
Start at: 2019-01-21 23:12:21
End at: 2019-01-21 23:12:51
Local clock offset: 0.271 ms
Remote clock offset: -41.311 ms

# Below is generated by plot.py at 2019-01-22 00:25:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.91 Mbit/s
95th percentile per-packet one-way delay: 135.033 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 72.91 Mbit/s
95th percentile per-packet one-way delay: 135.033 ms
Loss rate: 0.75%
```

Run 4: Report of Indigo — Data Link

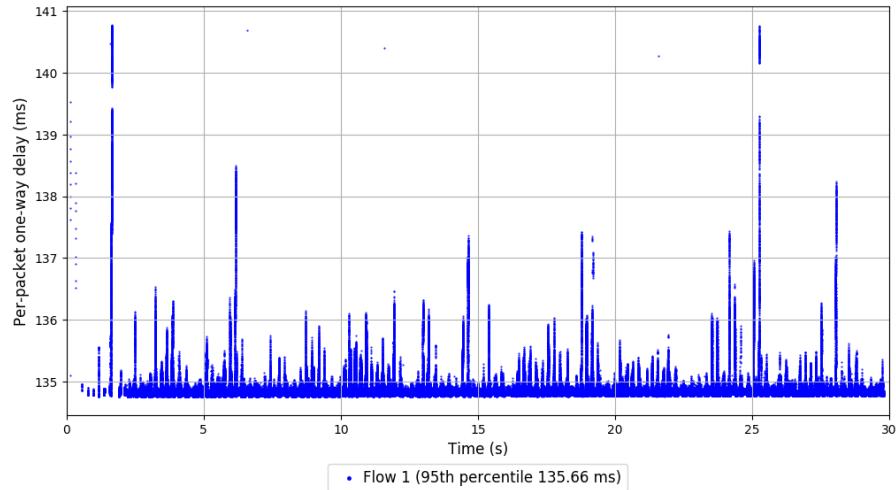
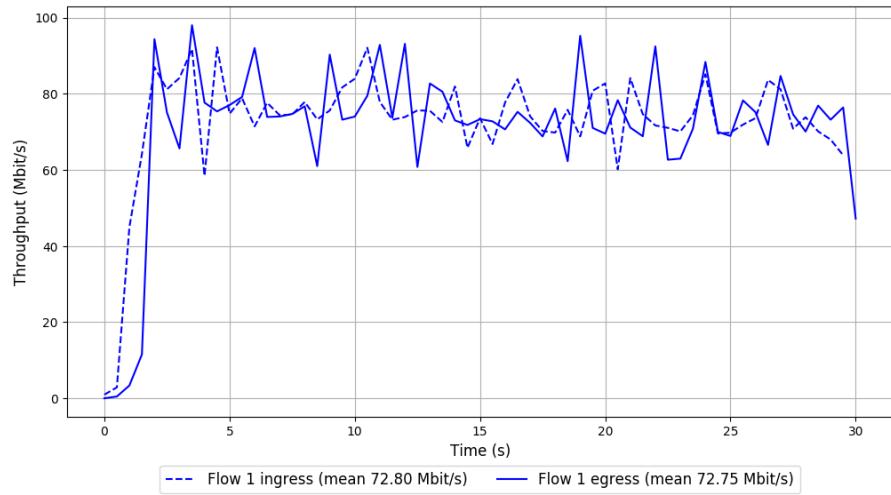


Run 5: Statistics of Indigo

```
Start at: 2019-01-21 23:40:49
End at: 2019-01-21 23:41:19
Local clock offset: 1.439 ms
Remote clock offset: -38.879 ms

# Below is generated by plot.py at 2019-01-22 00:25:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.75 Mbit/s
95th percentile per-packet one-way delay: 135.660 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 72.75 Mbit/s
95th percentile per-packet one-way delay: 135.660 ms
Loss rate: 0.72%
```

Run 5: Report of Indigo — Data Link

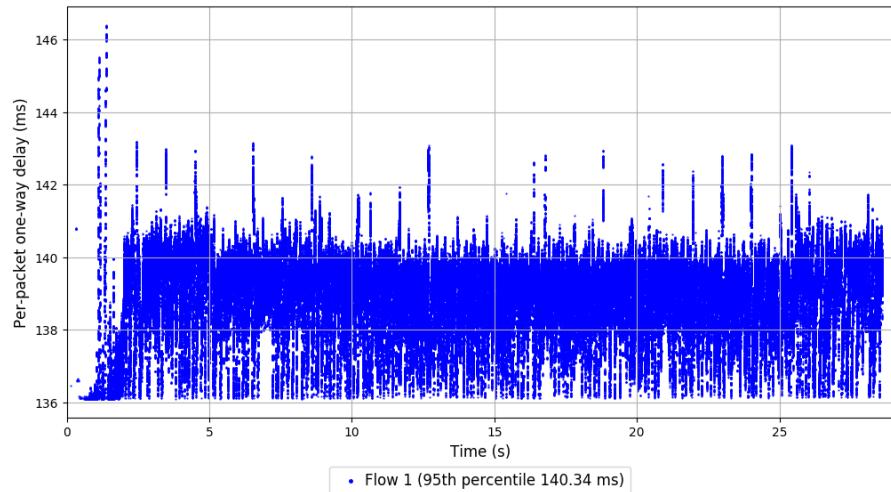
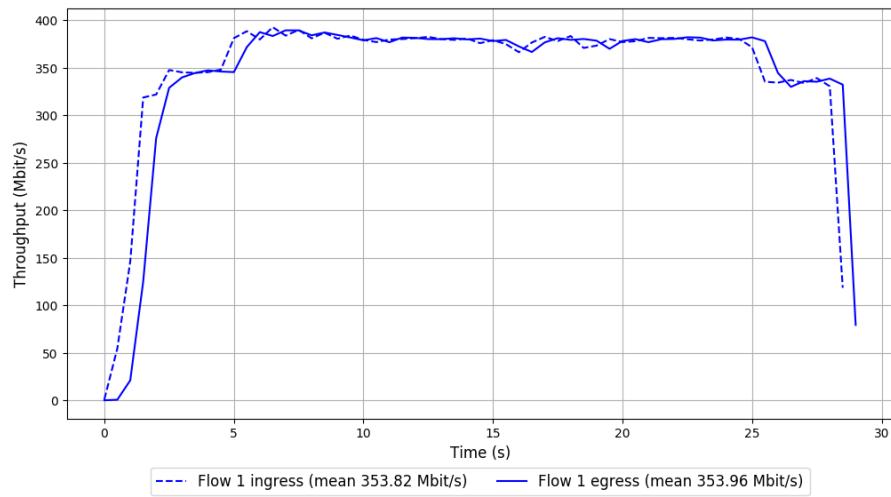


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 21:19:21
End at: 2019-01-21 21:19:51
Local clock offset: -0.894 ms
Remote clock offset: -47.384 ms

# Below is generated by plot.py at 2019-01-22 00:26:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 353.96 Mbit/s
95th percentile per-packet one-way delay: 140.335 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 353.96 Mbit/s
95th percentile per-packet one-way delay: 140.335 ms
Loss rate: 0.65%
```

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

/home/ubuntu/pantheon/data/2019-01-21T21-02-Saudi-Arabia-to-AWS-India-2-5-runs/indigo_musesc3

Run 2: Report of Indigo-MusesC3 — Data Link

Figure is missing

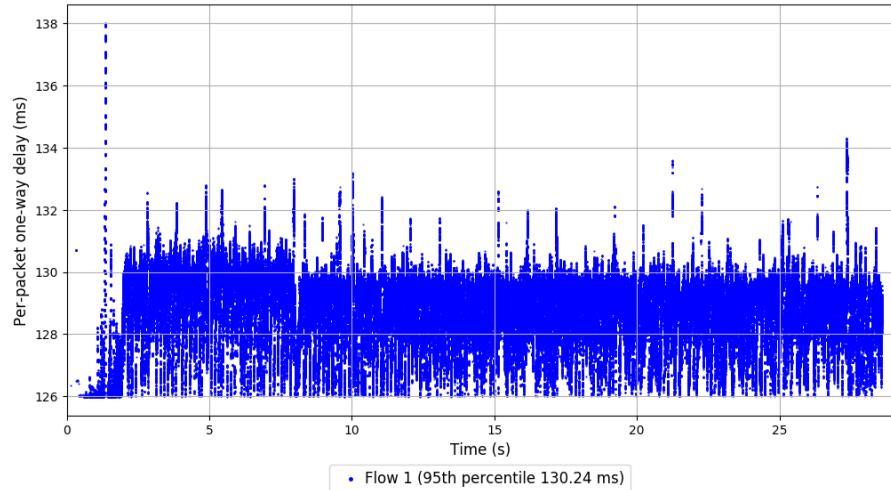
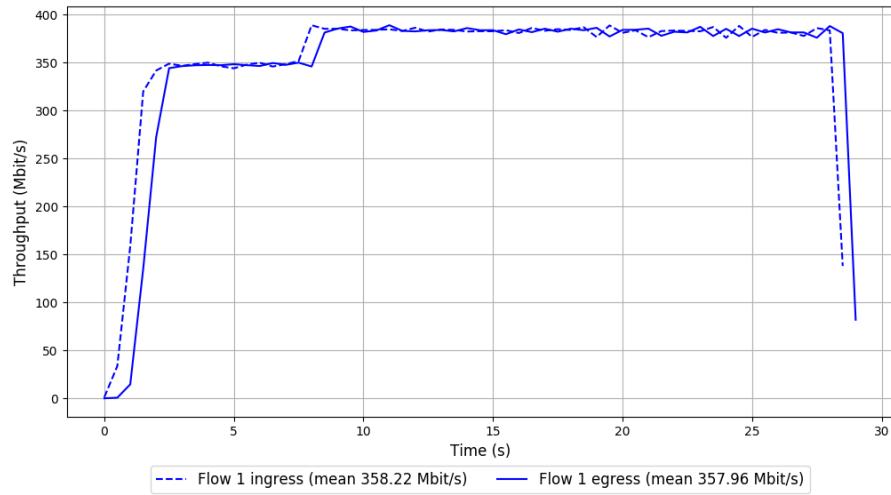
Figure is missing

Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 22:41:29
End at: 2019-01-21 22:41:59
Local clock offset: -0.684 ms
Remote clock offset: -34.865 ms

# Below is generated by plot.py at 2019-01-22 00:26:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 357.96 Mbit/s
95th percentile per-packet one-way delay: 130.244 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 357.96 Mbit/s
95th percentile per-packet one-way delay: 130.244 ms
Loss rate: 0.76%
```

Run 3: Report of Indigo-MusesC3 — Data Link

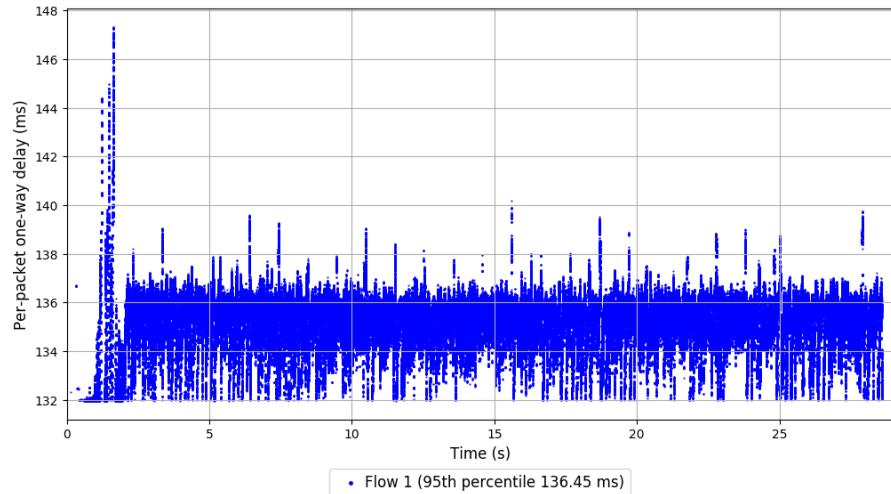
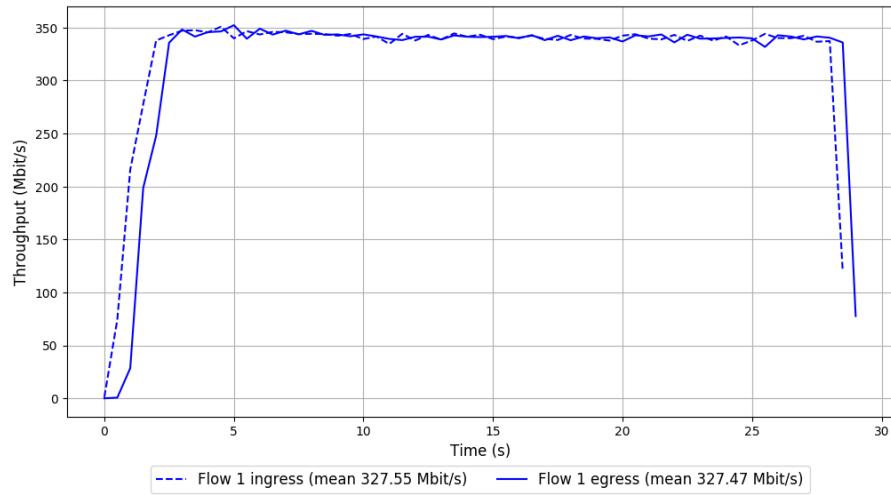


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 23:14:59
End at: 2019-01-21 23:15:29
Local clock offset: 0.579 ms
Remote clock offset: -38.24 ms

# Below is generated by plot.py at 2019-01-22 00:26:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 327.47 Mbit/s
95th percentile per-packet one-way delay: 136.448 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 327.47 Mbit/s
95th percentile per-packet one-way delay: 136.448 ms
Loss rate: 0.71%
```

Run 4: Report of Indigo-MusesC3 — Data Link

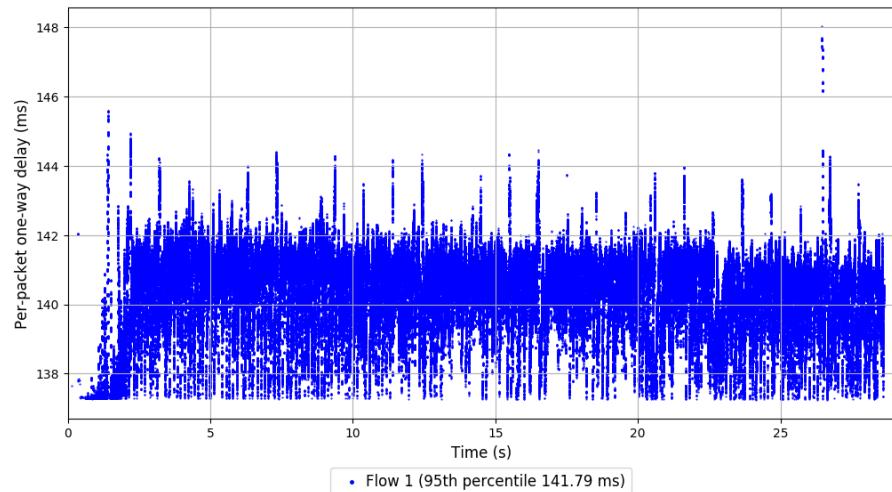
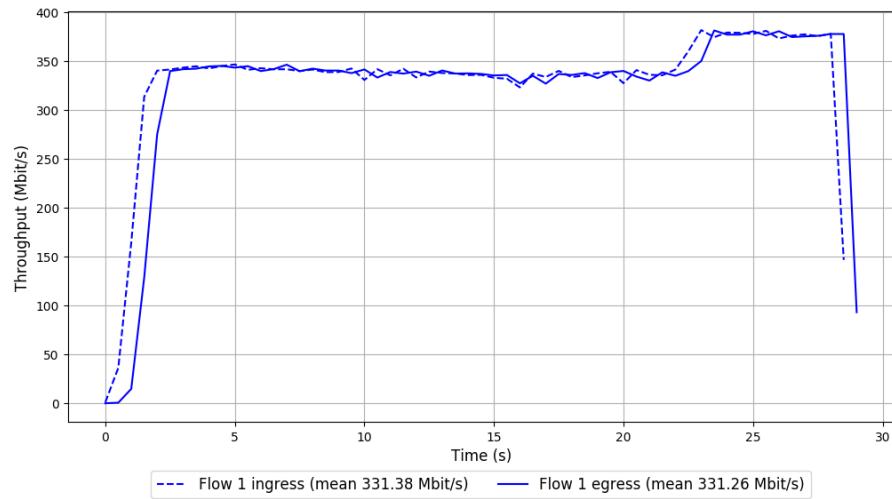


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 23:43:26
End at: 2019-01-21 23:43:56
Local clock offset: -0.564 ms
Remote clock offset: -43.356 ms

# Below is generated by plot.py at 2019-01-22 00:26:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.26 Mbit/s
95th percentile per-packet one-way delay: 141.787 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 331.26 Mbit/s
95th percentile per-packet one-way delay: 141.787 ms
Loss rate: 0.84%
```

Run 5: Report of Indigo-MusesC3 — Data Link

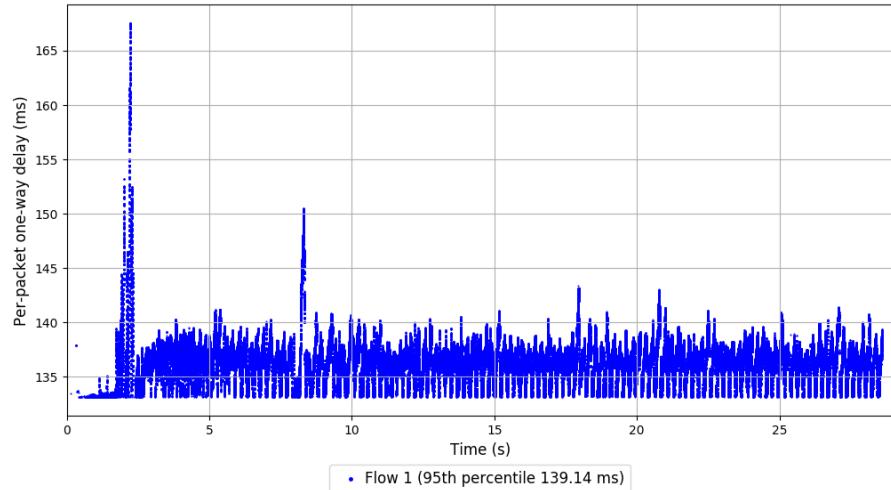
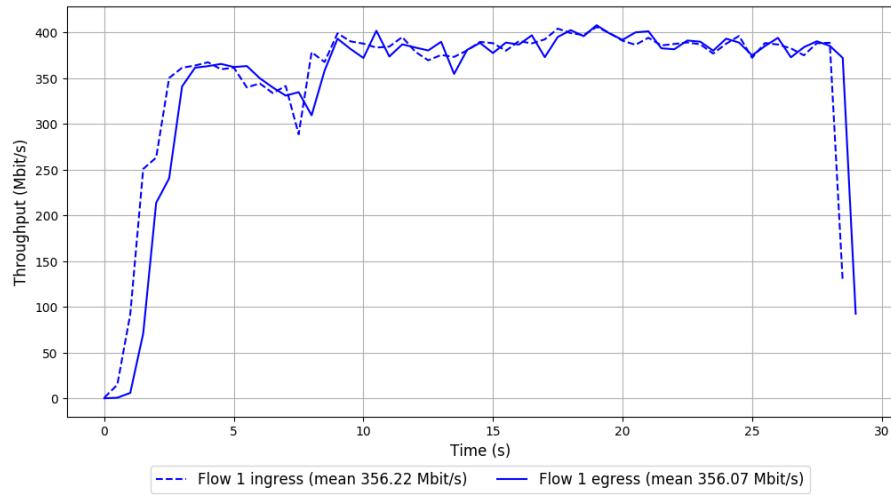


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-21 21:36:51
End at: 2019-01-21 21:37:21
Local clock offset: 0.963 ms
Remote clock offset: -42.089 ms

# Below is generated by plot.py at 2019-01-22 00:26:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.07 Mbit/s
95th percentile per-packet one-way delay: 139.144 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 356.07 Mbit/s
95th percentile per-packet one-way delay: 139.144 ms
Loss rate: 0.73%
```

Run 1: Report of Indigo-MusesC5 — Data Link

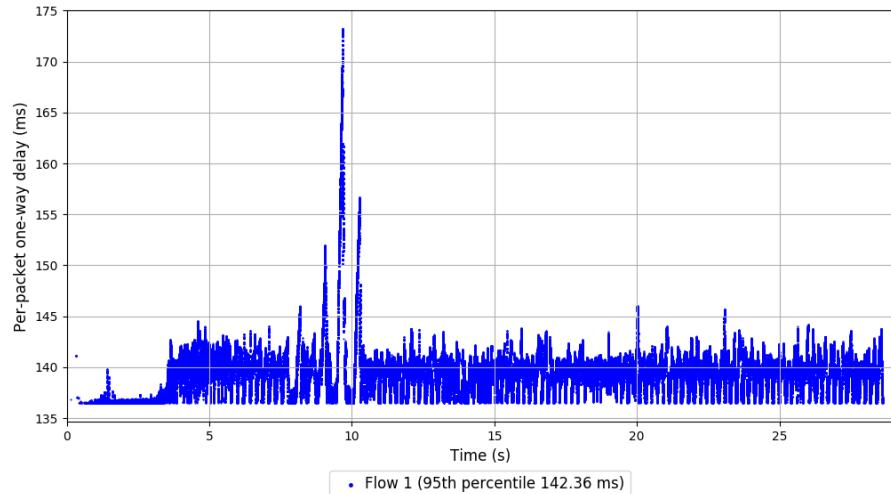
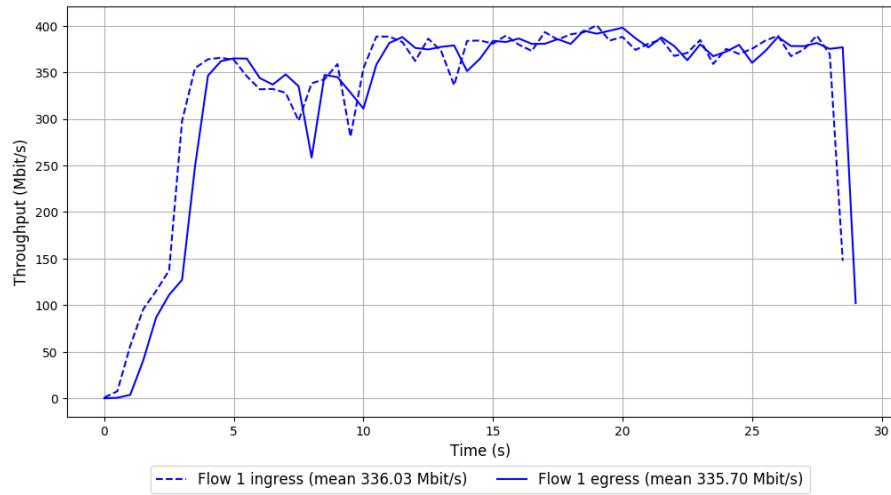


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 22:14:53
End at: 2019-01-21 22:15:23
Local clock offset: 0.43 ms
Remote clock offset: -45.818 ms

# Below is generated by plot.py at 2019-01-22 00:26:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.70 Mbit/s
95th percentile per-packet one-way delay: 142.356 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 335.70 Mbit/s
95th percentile per-packet one-way delay: 142.356 ms
Loss rate: 0.79%
```

Run 2: Report of Indigo-MusesC5 — Data Link

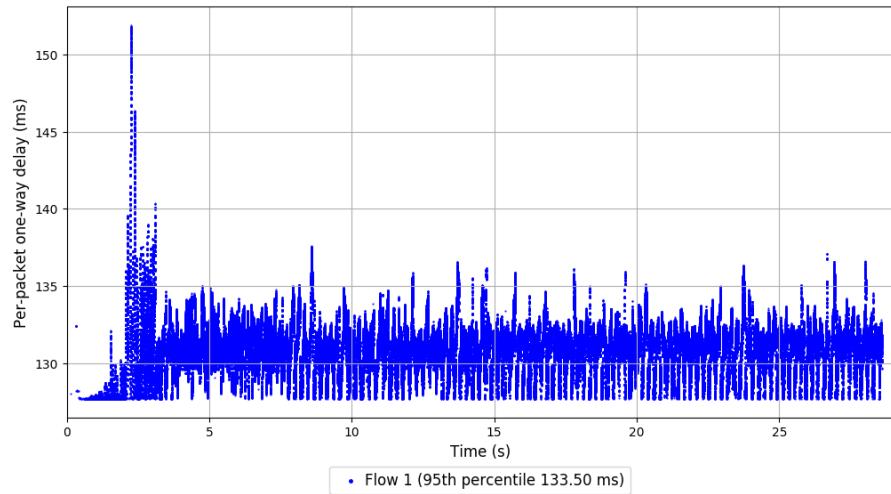
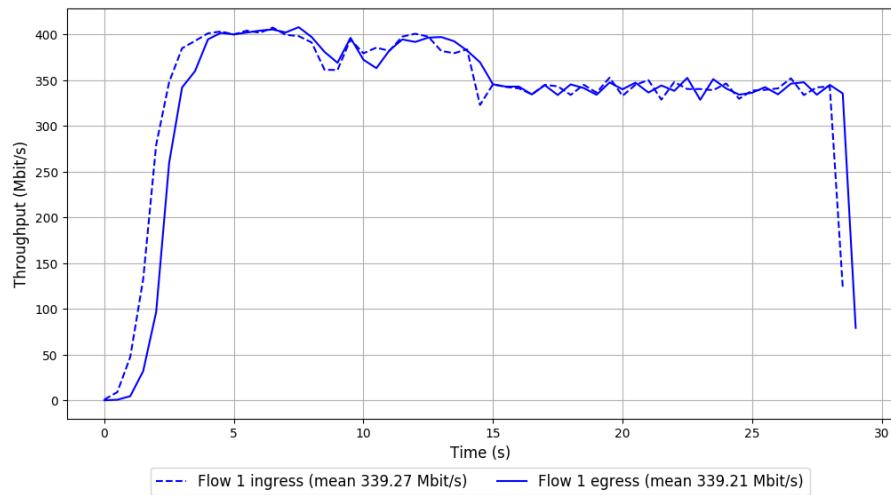


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 22:52:40
End at: 2019-01-21 22:53:10
Local clock offset: 0.695 ms
Remote clock offset: -34.048 ms

# Below is generated by plot.py at 2019-01-22 00:26:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.21 Mbit/s
95th percentile per-packet one-way delay: 133.500 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 339.21 Mbit/s
95th percentile per-packet one-way delay: 133.500 ms
Loss rate: 0.71%
```

Run 3: Report of Indigo-MusesC5 — Data Link

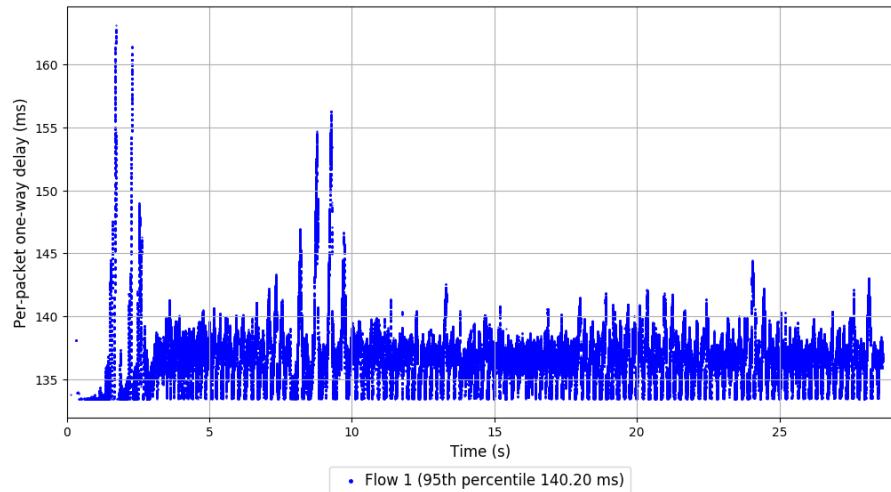
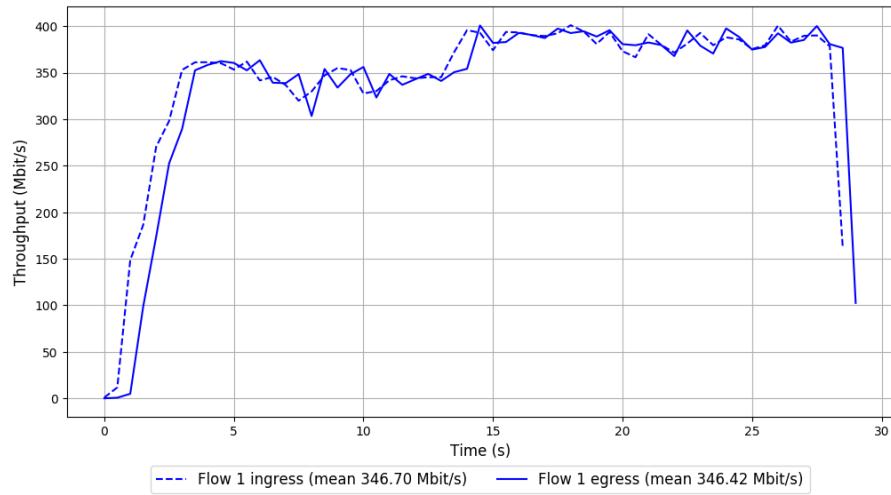


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 23:26:14
End at: 2019-01-21 23:26:44
Local clock offset: 0.474 ms
Remote clock offset: -40.663 ms

# Below is generated by plot.py at 2019-01-22 00:29:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 346.42 Mbit/s
95th percentile per-packet one-way delay: 140.197 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 346.42 Mbit/s
95th percentile per-packet one-way delay: 140.197 ms
Loss rate: 0.86%
```

Run 4: Report of Indigo-MusesC5 — Data Link

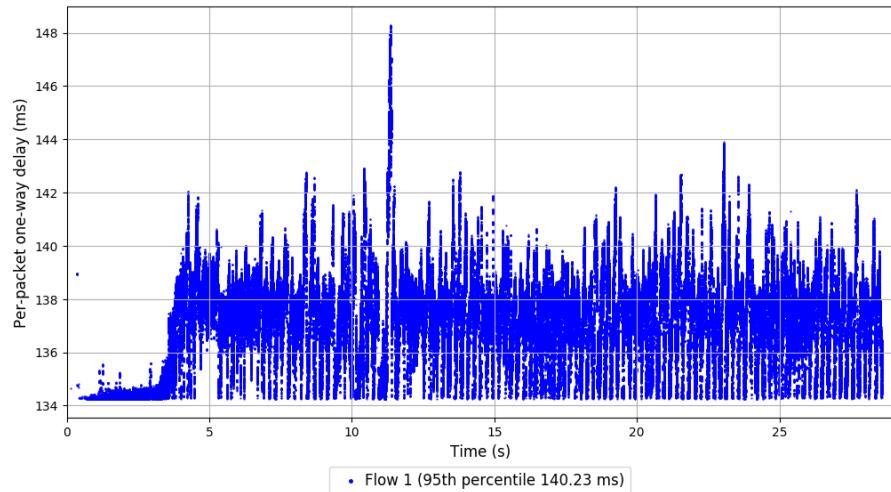
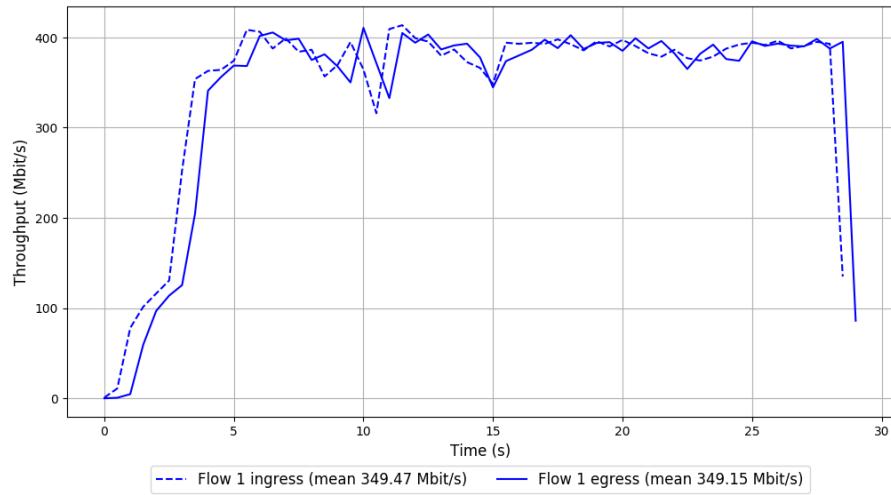


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 00:00:16
End at: 2019-01-22 00:00:46
Local clock offset: 0.885 ms
Remote clock offset: -39.428 ms

# Below is generated by plot.py at 2019-01-22 00:29:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 349.15 Mbit/s
95th percentile per-packet one-way delay: 140.226 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 349.15 Mbit/s
95th percentile per-packet one-way delay: 140.226 ms
Loss rate: 0.78%
```

Run 5: Report of Indigo-MusesC5 — Data Link

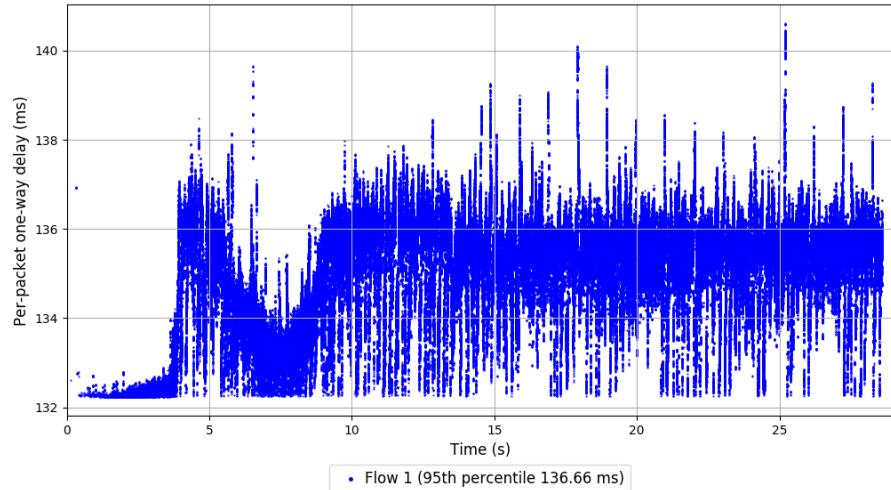
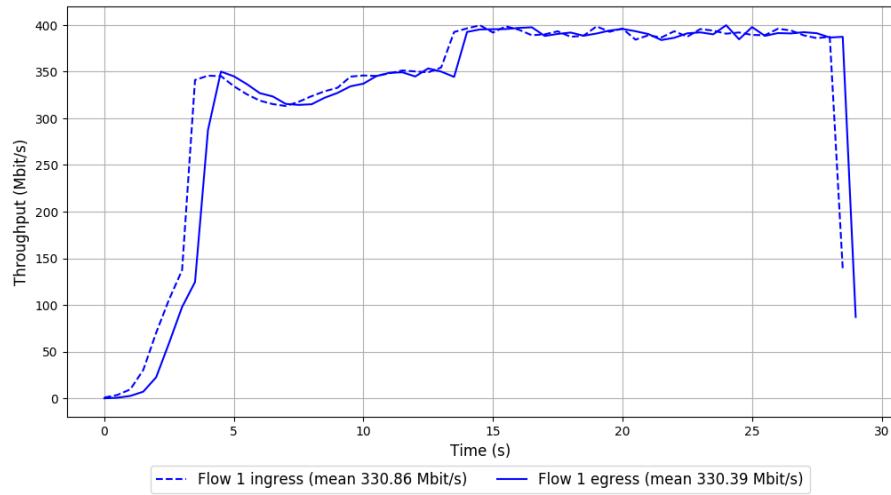


```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-21 21:31:11
End at: 2019-01-21 21:31:41
Local clock offset: 0.232 ms
Remote clock offset: -40.379 ms

# Below is generated by plot.py at 2019-01-22 00:29:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.39 Mbit/s
95th percentile per-packet one-way delay: 136.665 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 330.39 Mbit/s
95th percentile per-packet one-way delay: 136.665 ms
Loss rate: 0.83%
```

Run 1: Report of Indigo-MusesD — Data Link

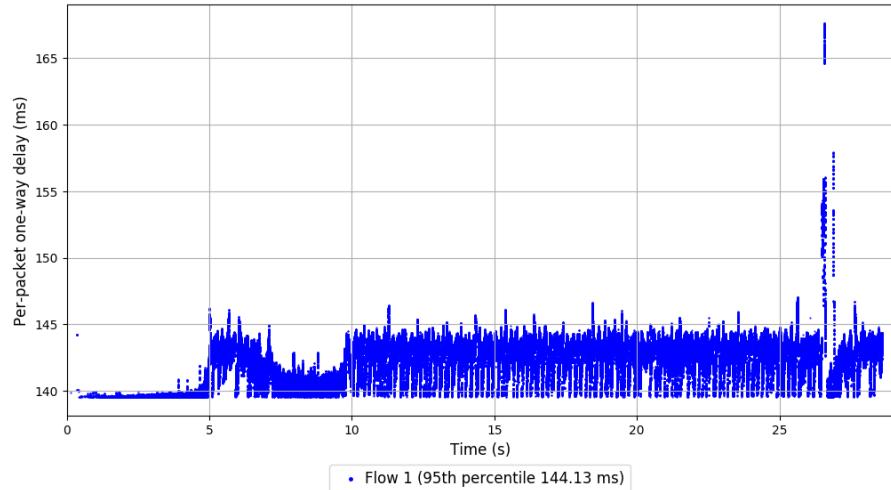
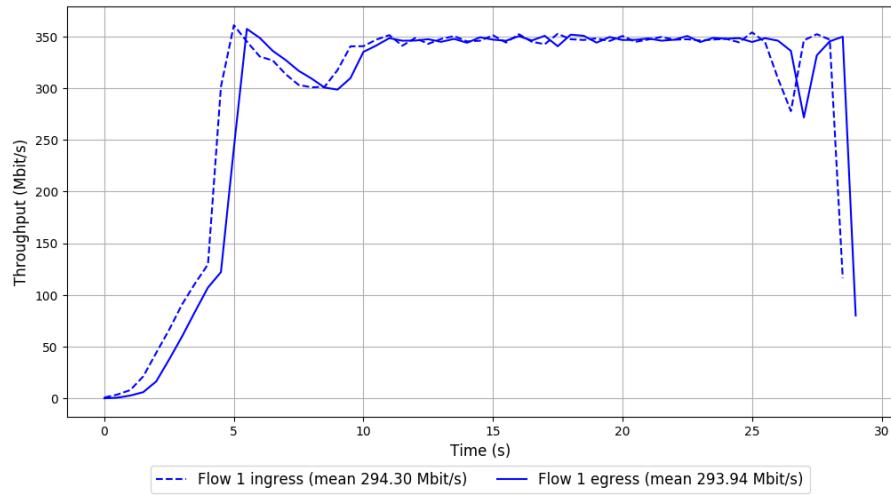


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 22:03:51
End at: 2019-01-21 22:04:21
Local clock offset: 0.718 ms
Remote clock offset: -46.905 ms

# Below is generated by plot.py at 2019-01-22 00:29:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.94 Mbit/s
95th percentile per-packet one-way delay: 144.132 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 293.94 Mbit/s
95th percentile per-packet one-way delay: 144.132 ms
Loss rate: 0.80%
```

Run 2: Report of Indigo-MusesD — Data Link

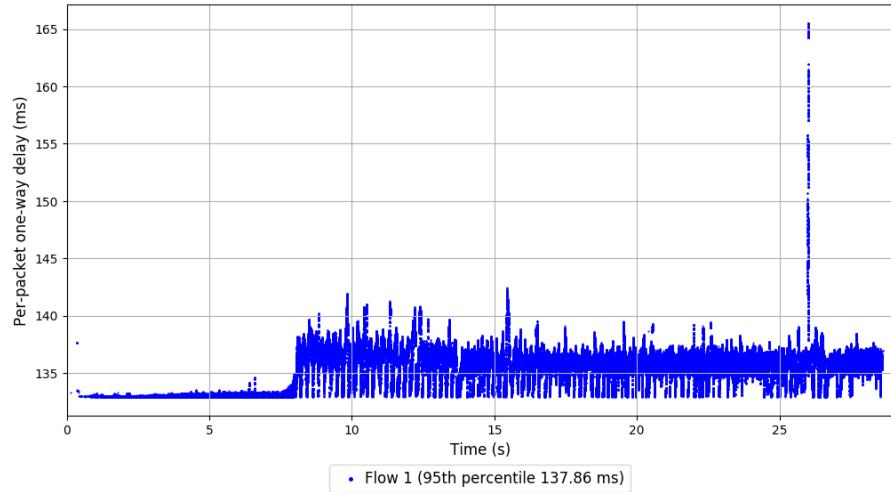
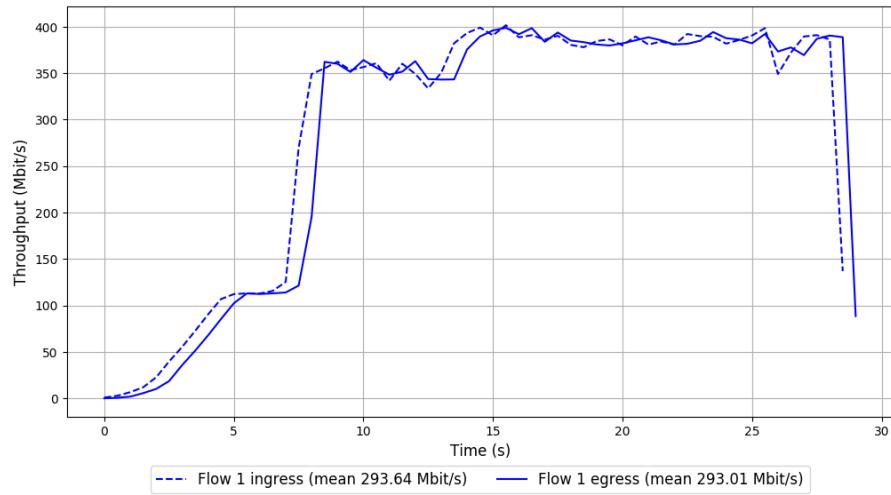


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 22:47:01
End at: 2019-01-21 22:47:31
Local clock offset: -1.427 ms
Remote clock offset: -40.871 ms

# Below is generated by plot.py at 2019-01-22 00:29:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.01 Mbit/s
95th percentile per-packet one-way delay: 137.863 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 293.01 Mbit/s
95th percentile per-packet one-way delay: 137.863 ms
Loss rate: 0.90%
```

Run 3: Report of Indigo-MusesD — Data Link

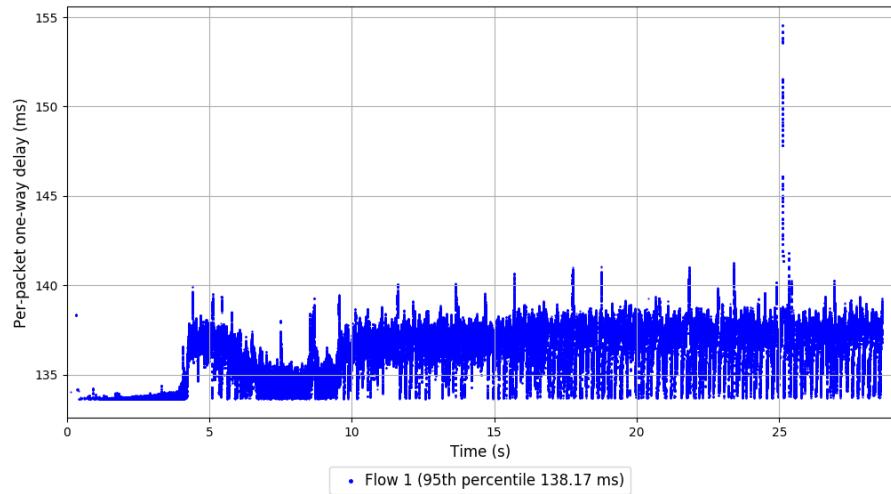
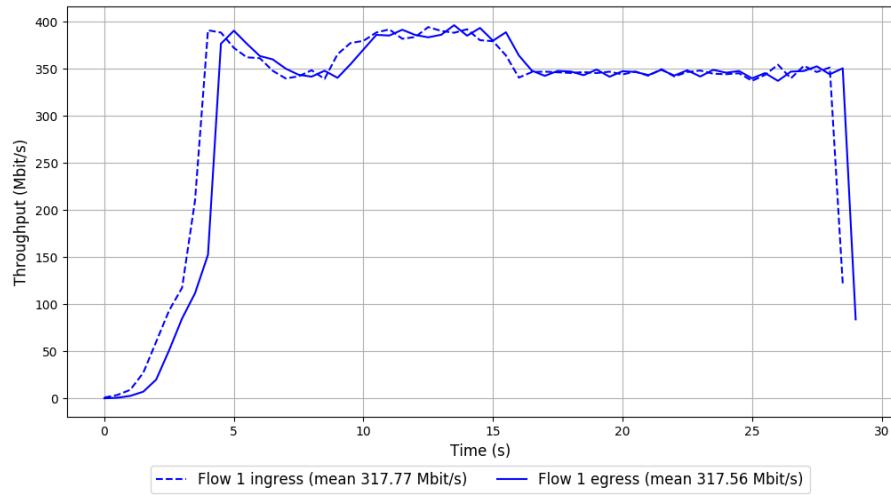


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 23:20:39
End at: 2019-01-21 23:21:09
Local clock offset: 1.525 ms
Remote clock offset: -40.139 ms

# Below is generated by plot.py at 2019-01-22 00:29:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.56 Mbit/s
95th percentile per-packet one-way delay: 138.167 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 317.56 Mbit/s
95th percentile per-packet one-way delay: 138.167 ms
Loss rate: 0.75%
```

Run 4: Report of Indigo-MusesD — Data Link

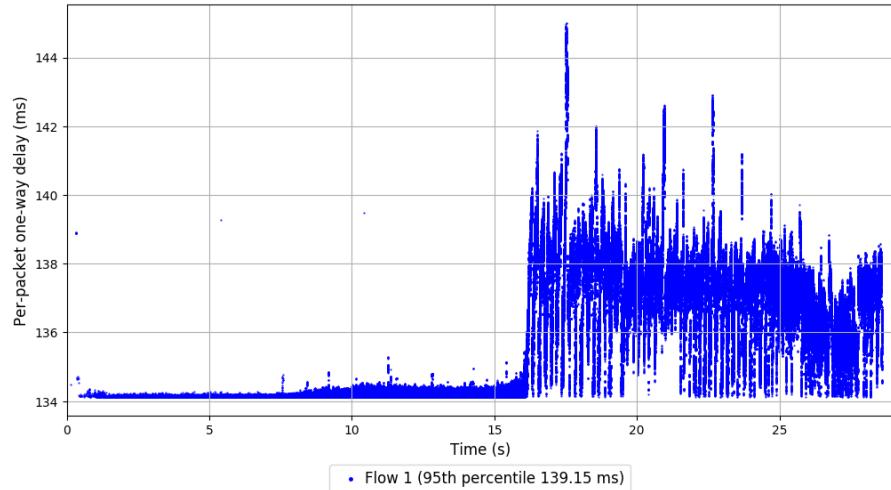
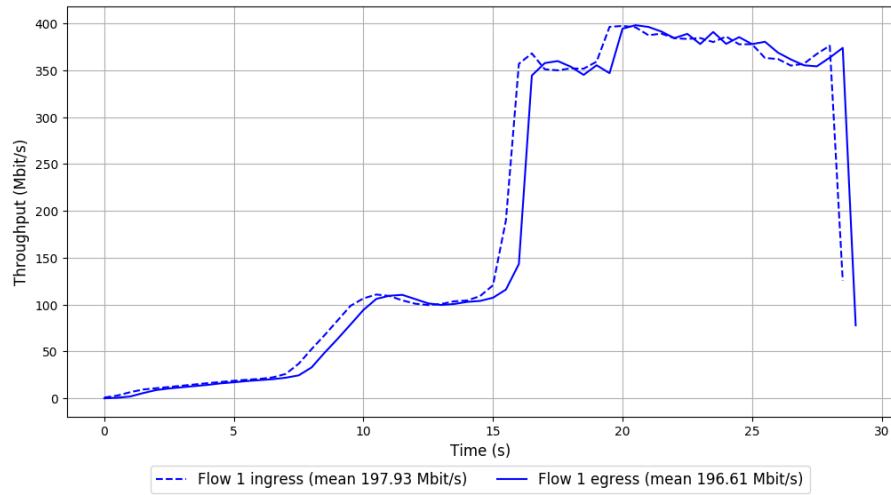


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 23:49:03
End at: 2019-01-21 23:49:33
Local clock offset: 0.527 ms
Remote clock offset: -39.652 ms

# Below is generated by plot.py at 2019-01-22 00:29:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.61 Mbit/s
95th percentile per-packet one-way delay: 139.147 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 196.61 Mbit/s
95th percentile per-packet one-way delay: 139.147 ms
Loss rate: 1.35%
```

Run 5: Report of Indigo-MusesD — Data Link

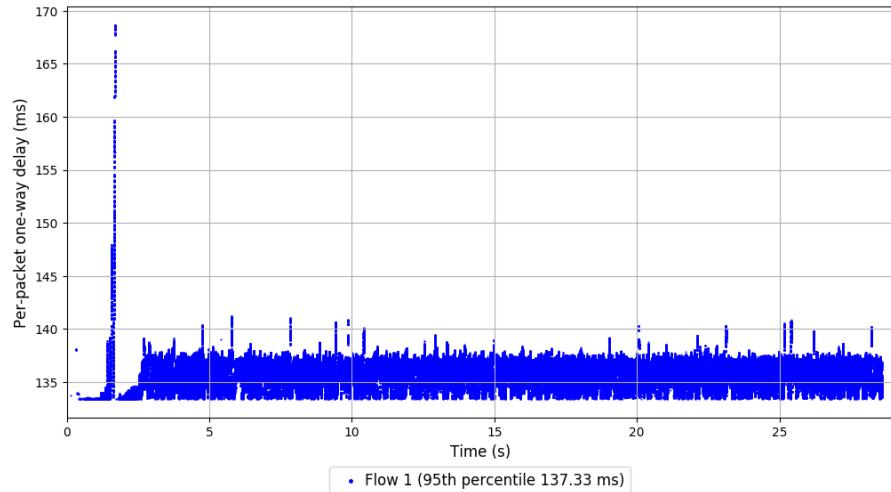
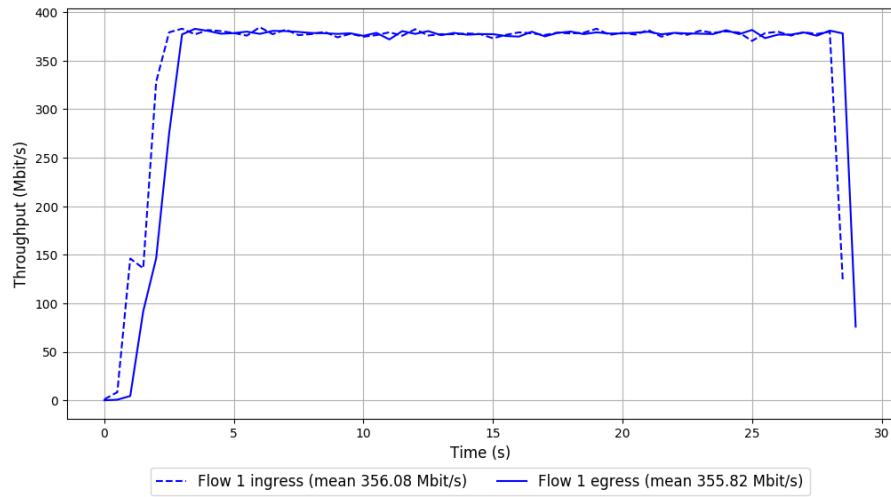


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 21:04:25
End at: 2019-01-21 21:04:55
Local clock offset: -1.409 ms
Remote clock offset: -45.582 ms

# Below is generated by plot.py at 2019-01-22 00:30:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 355.82 Mbit/s
95th percentile per-packet one-way delay: 137.334 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 355.82 Mbit/s
95th percentile per-packet one-way delay: 137.334 ms
Loss rate: 0.74%
```

Run 1: Report of Indigo-MusesT — Data Link

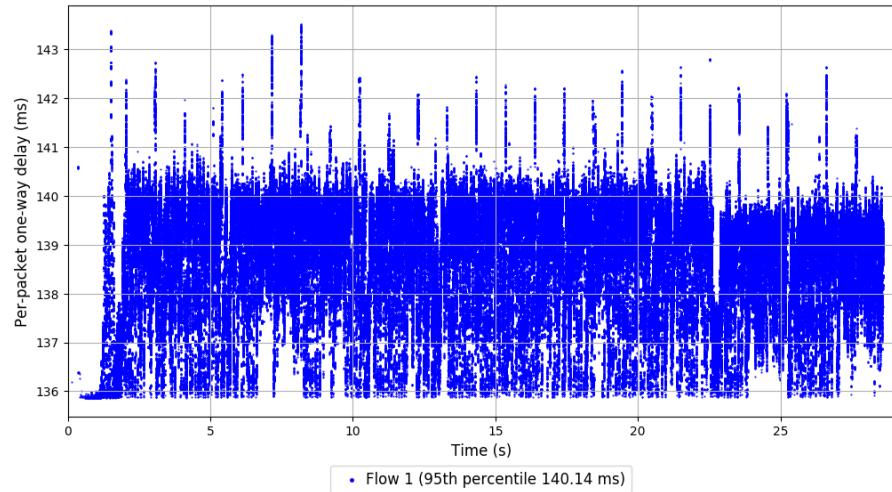
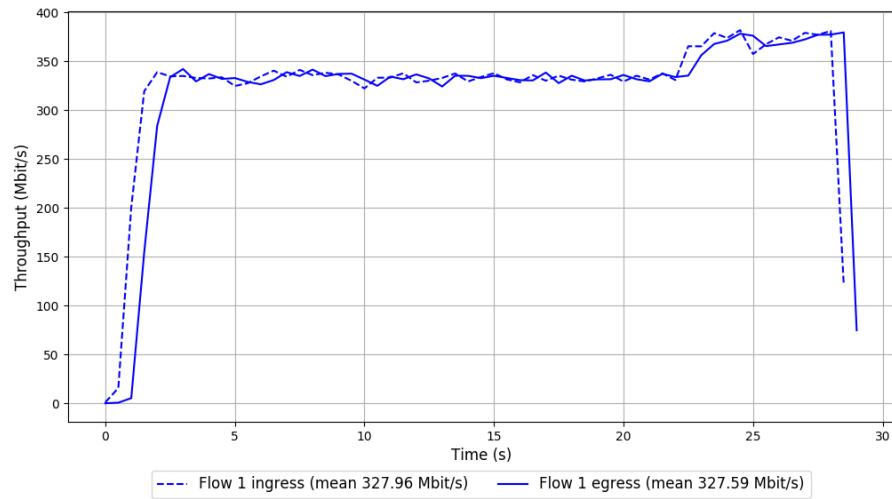


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 21:44:32
End at: 2019-01-21 21:45:02
Local clock offset: -1.724 ms
Remote clock offset: -45.634 ms

# Below is generated by plot.py at 2019-01-22 00:32:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 327.59 Mbit/s
95th percentile per-packet one-way delay: 140.144 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 327.59 Mbit/s
95th percentile per-packet one-way delay: 140.144 ms
Loss rate: 0.81%
```

Run 2: Report of Indigo-MusesT — Data Link

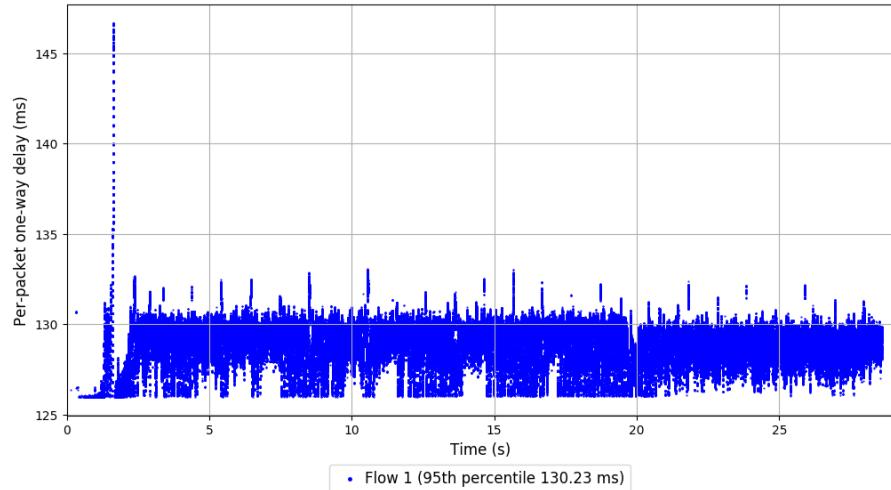
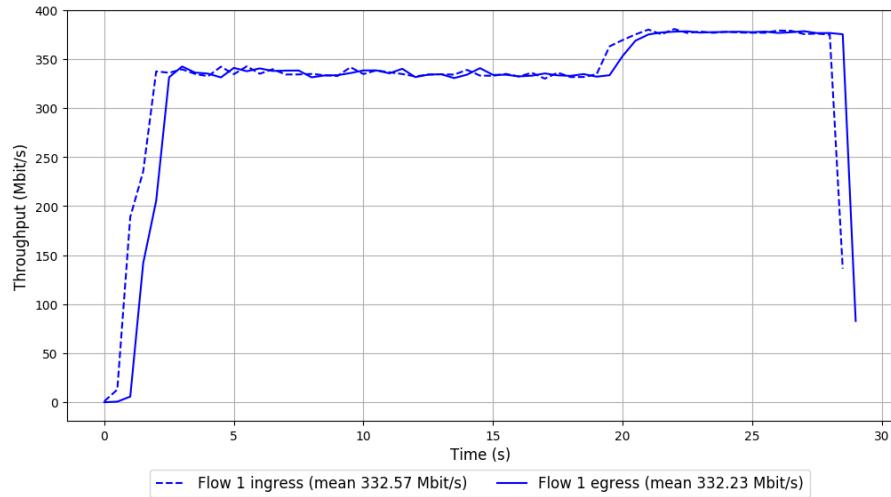


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 22:22:41
End at: 2019-01-21 22:23:11
Local clock offset: -2.004 ms
Remote clock offset: -36.919 ms

# Below is generated by plot.py at 2019-01-22 00:32:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.23 Mbit/s
95th percentile per-packet one-way delay: 130.234 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 332.23 Mbit/s
95th percentile per-packet one-way delay: 130.234 ms
Loss rate: 0.79%
```

Run 3: Report of Indigo-MusesT — Data Link

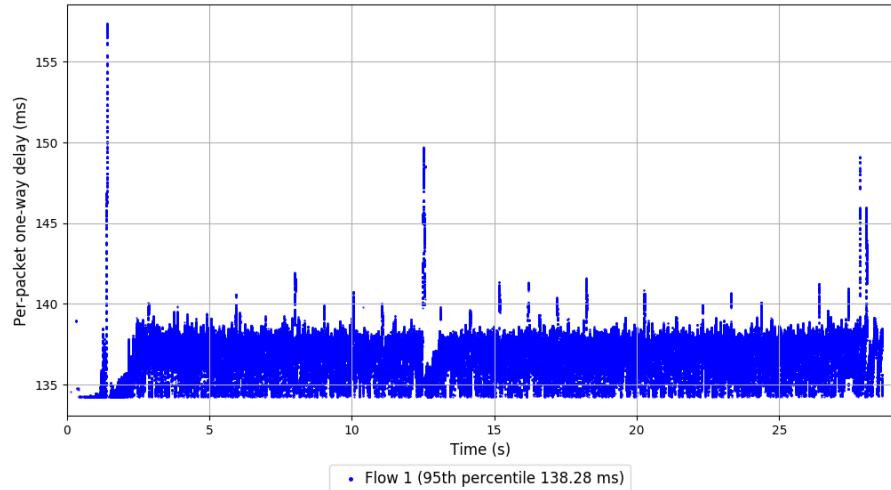
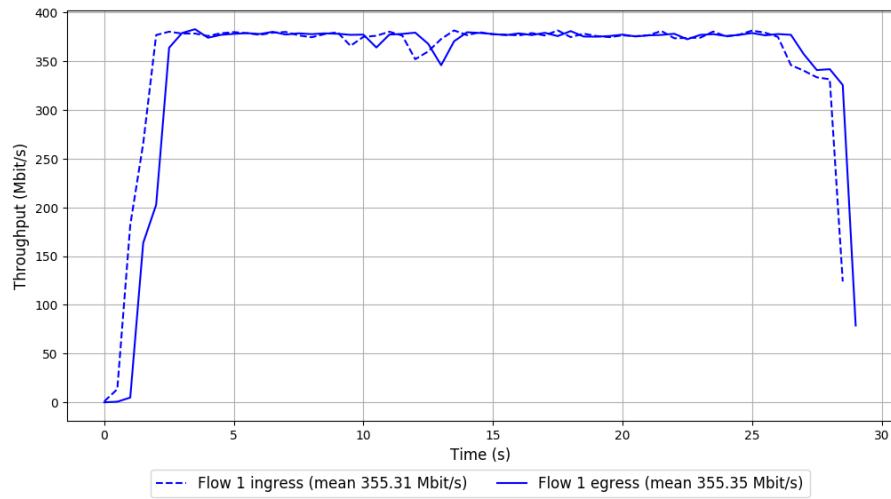


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 23:06:02
End at: 2019-01-21 23:06:33
Local clock offset: 0.243 ms
Remote clock offset: -42.867 ms

# Below is generated by plot.py at 2019-01-22 00:32:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 355.35 Mbit/s
95th percentile per-packet one-way delay: 138.285 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 355.35 Mbit/s
95th percentile per-packet one-way delay: 138.285 ms
Loss rate: 0.67%
```

Run 4: Report of Indigo-MusesT — Data Link

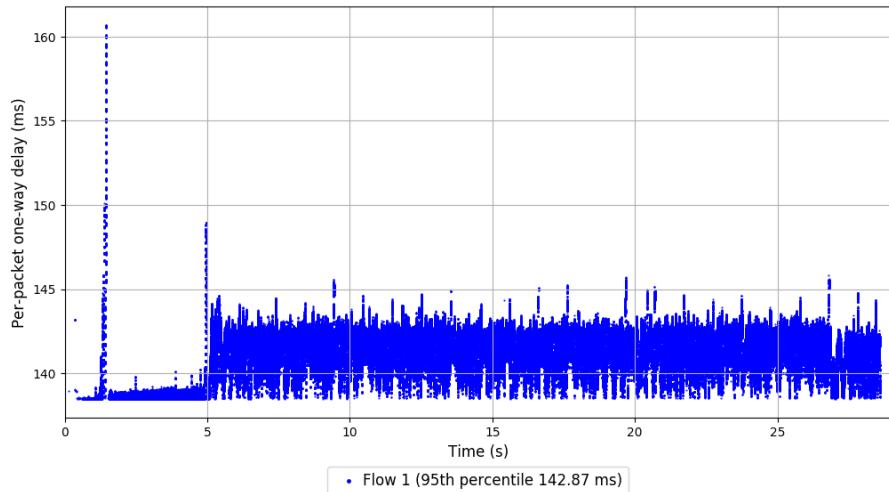
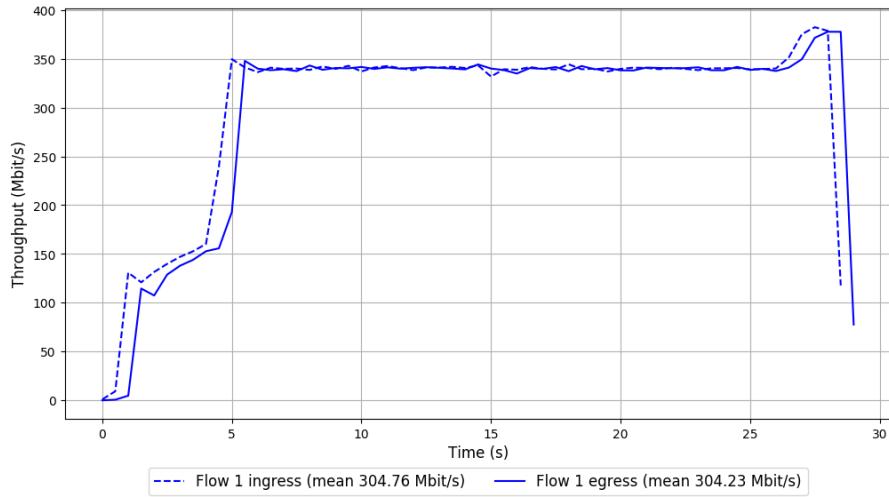


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 23:34:14
End at: 2019-01-21 23:34:44
Local clock offset: 0.372 ms
Remote clock offset: -43.766 ms

# Below is generated by plot.py at 2019-01-22 00:32:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.23 Mbit/s
95th percentile per-packet one-way delay: 142.873 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 304.23 Mbit/s
95th percentile per-packet one-way delay: 142.873 ms
Loss rate: 0.86%
```

Run 5: Report of Indigo-MusesT — Data Link

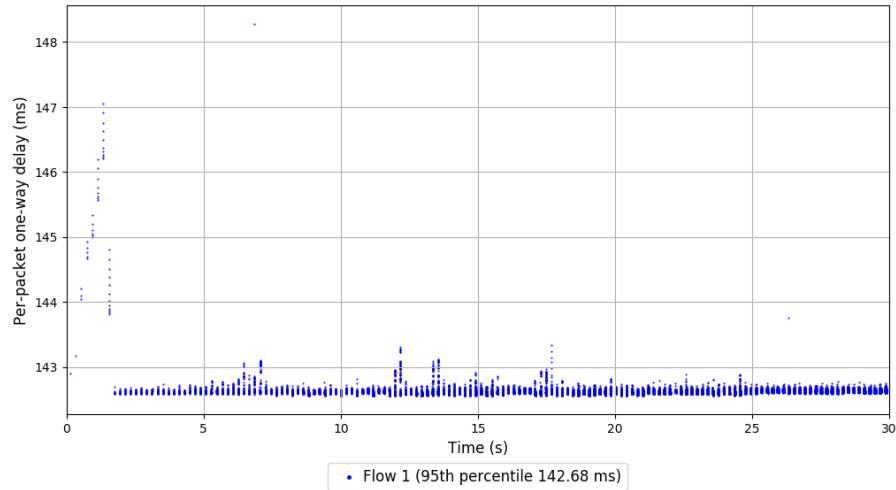
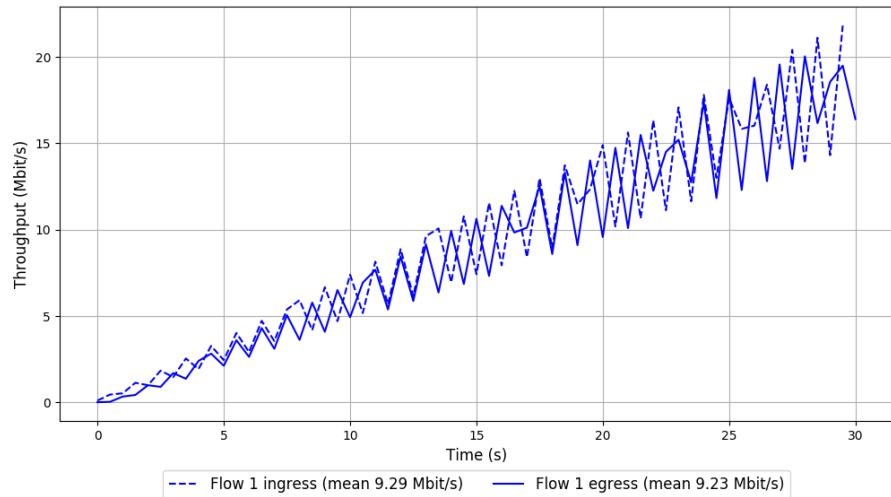


Run 1: Statistics of LEDBAT

```
Start at: 2019-01-21 21:39:34
End at: 2019-01-21 21:40:04
Local clock offset: 0.349 ms
Remote clock offset: -50.375 ms

# Below is generated by plot.py at 2019-01-22 00:32:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.23 Mbit/s
95th percentile per-packet one-way delay: 142.675 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 9.23 Mbit/s
95th percentile per-packet one-way delay: 142.675 ms
Loss rate: 1.31%
```

Run 1: Report of LEDBAT — Data Link

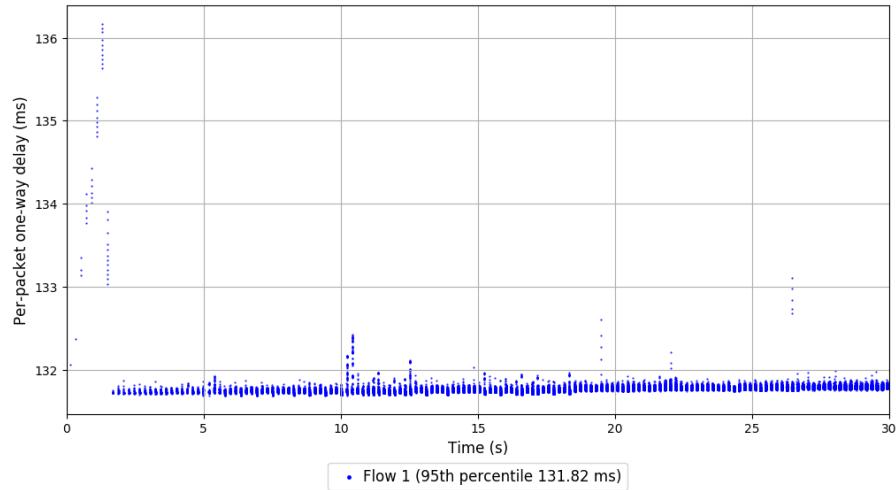
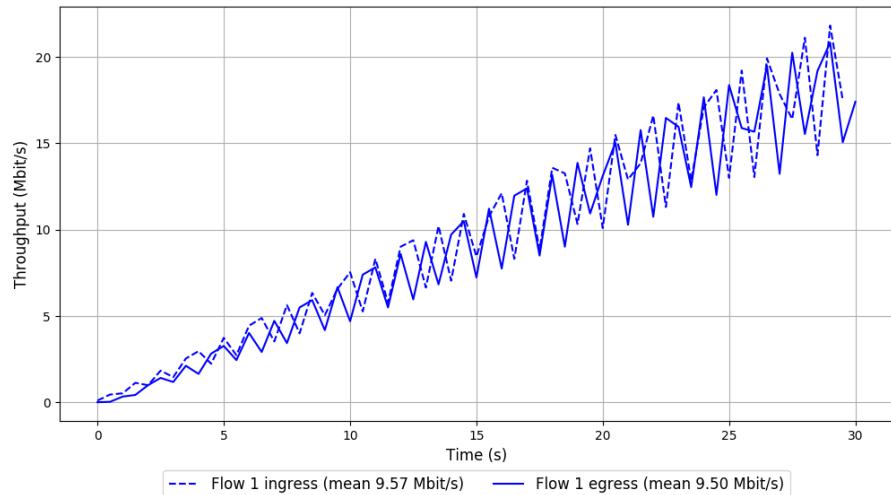


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-21 22:17:43
End at: 2019-01-21 22:18:13
Local clock offset: -0.367 ms
Remote clock offset: -39.866 ms

# Below is generated by plot.py at 2019-01-22 00:32:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.50 Mbit/s
95th percentile per-packet one-way delay: 131.825 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 9.50 Mbit/s
95th percentile per-packet one-way delay: 131.825 ms
Loss rate: 1.29%
```

Run 2: Report of LEDBAT — Data Link

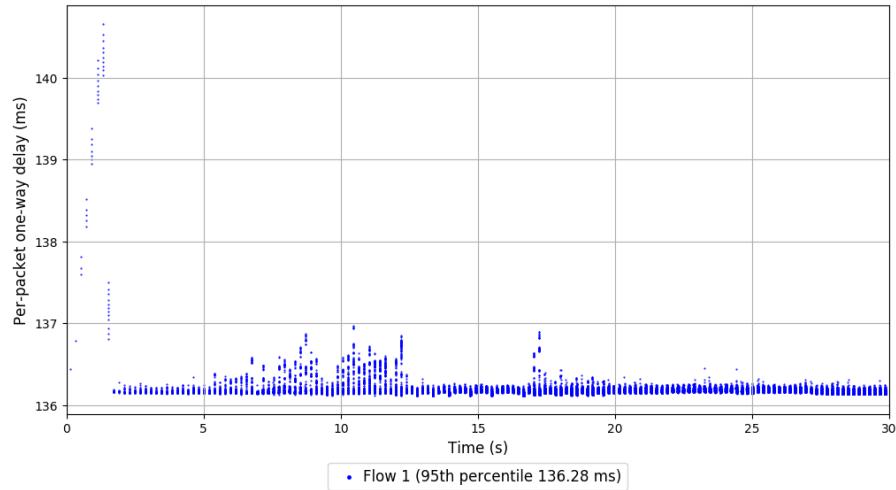
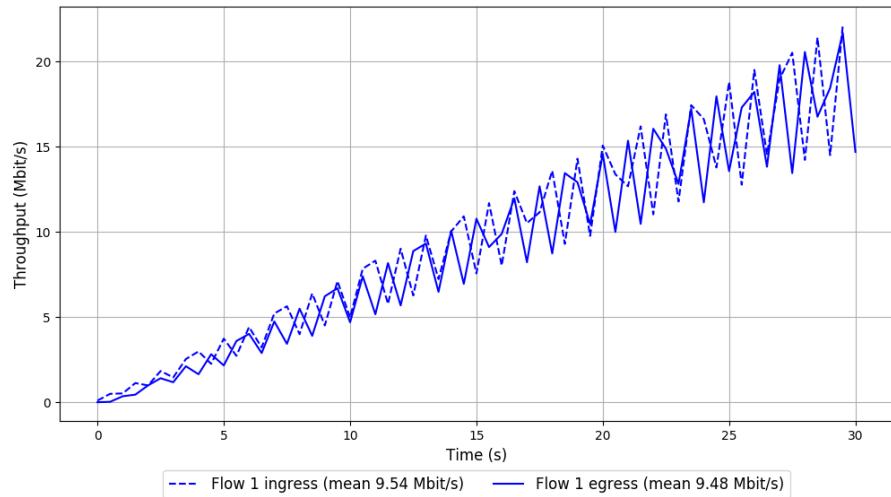


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-21 23:01:03
End at: 2019-01-21 23:01:33
Local clock offset: 3.615 ms
Remote clock offset: -39.617 ms

# Below is generated by plot.py at 2019-01-22 00:32:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.48 Mbit/s
95th percentile per-packet one-way delay: 136.275 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 9.48 Mbit/s
95th percentile per-packet one-way delay: 136.275 ms
Loss rate: 1.30%
```

Run 3: Report of LEDBAT — Data Link

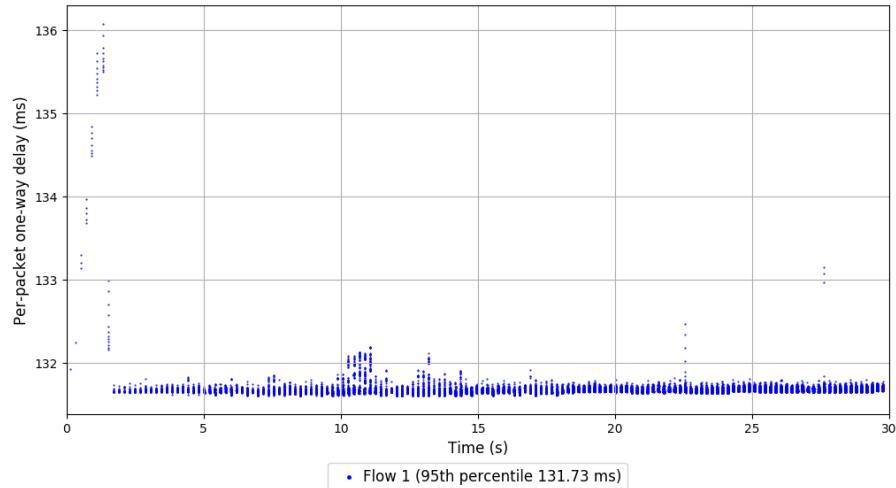
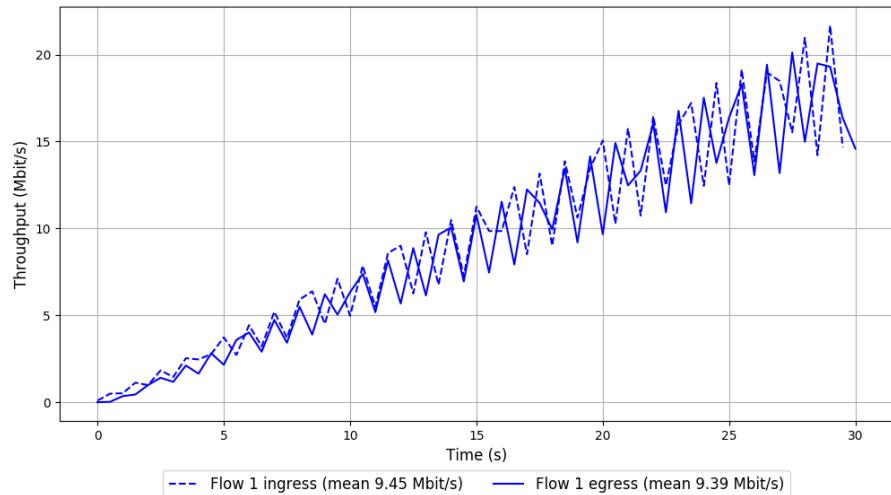


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-21 23:28:55
End at: 2019-01-21 23:29:25
Local clock offset: 0.459 ms
Remote clock offset: -38.726 ms

# Below is generated by plot.py at 2019-01-22 00:32:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.39 Mbit/s
95th percentile per-packet one-way delay: 131.726 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 9.39 Mbit/s
95th percentile per-packet one-way delay: 131.726 ms
Loss rate: 1.30%
```

Run 4: Report of LEDBAT — Data Link

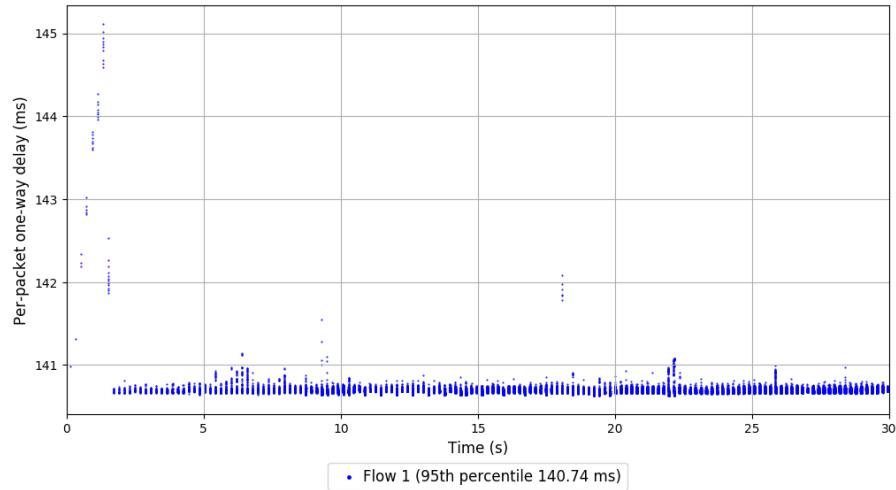
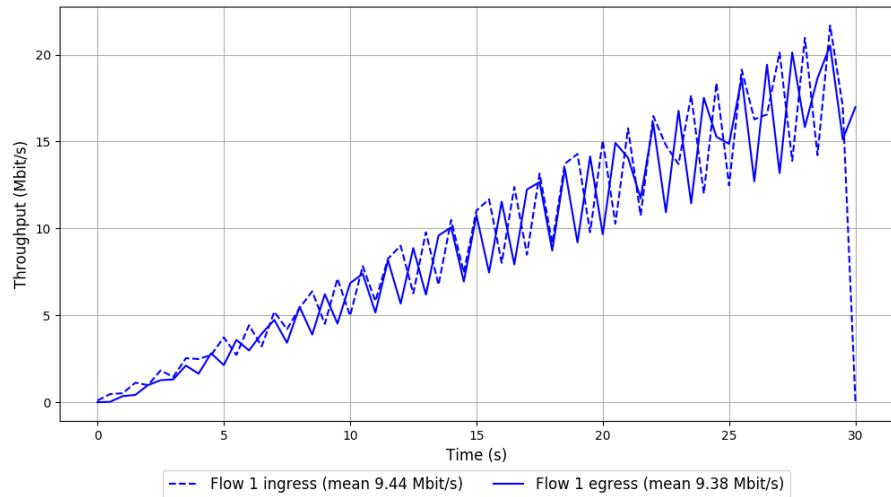


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-22 00:03:00
End at: 2019-01-22 00:03:30
Local clock offset: -0.314 ms
Remote clock offset: -48.69 ms

# Below is generated by plot.py at 2019-01-22 00:32:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.38 Mbit/s
95th percentile per-packet one-way delay: 140.739 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 9.38 Mbit/s
95th percentile per-packet one-way delay: 140.739 ms
Loss rate: 1.30%
```

Run 5: Report of LEDBAT — Data Link

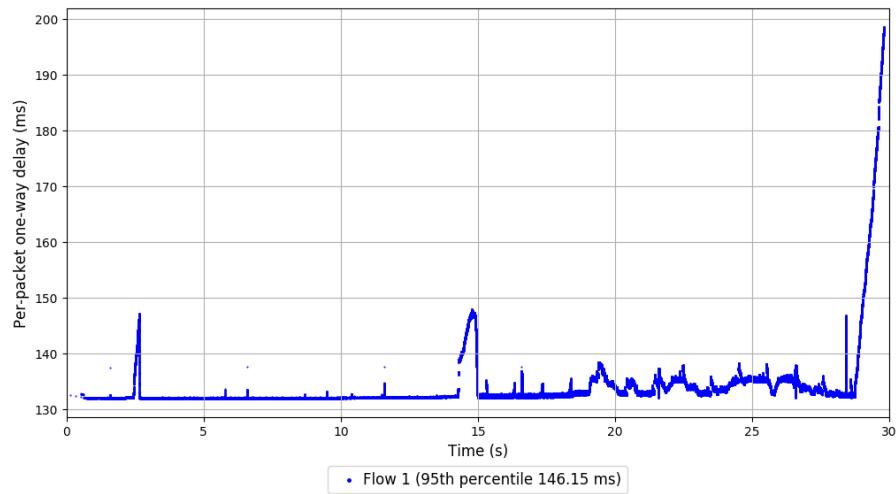
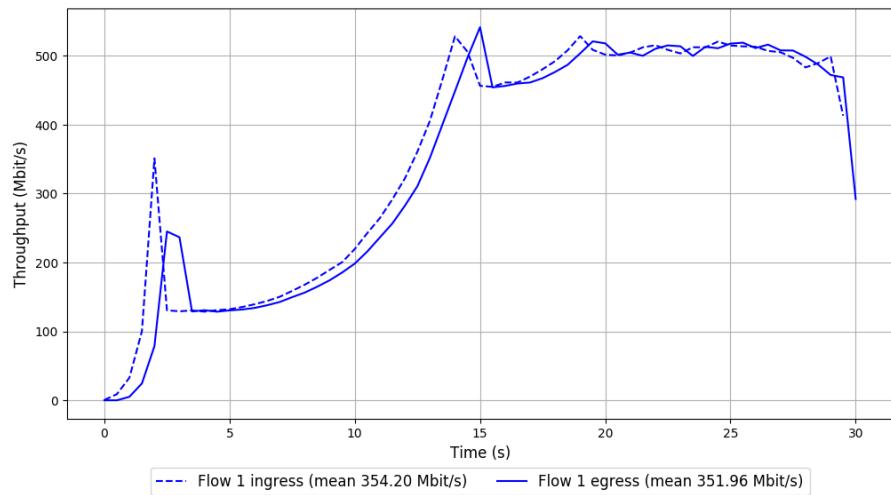


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-21 21:20:56
End at: 2019-01-21 21:21:26
Local clock offset: 1.298 ms
Remote clock offset: -41.061 ms

# Below is generated by plot.py at 2019-01-22 00:33:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 351.96 Mbit/s
95th percentile per-packet one-way delay: 146.148 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 351.96 Mbit/s
95th percentile per-packet one-way delay: 146.148 ms
Loss rate: 1.40%
```

Run 1: Report of PCC-Allegro — Data Link

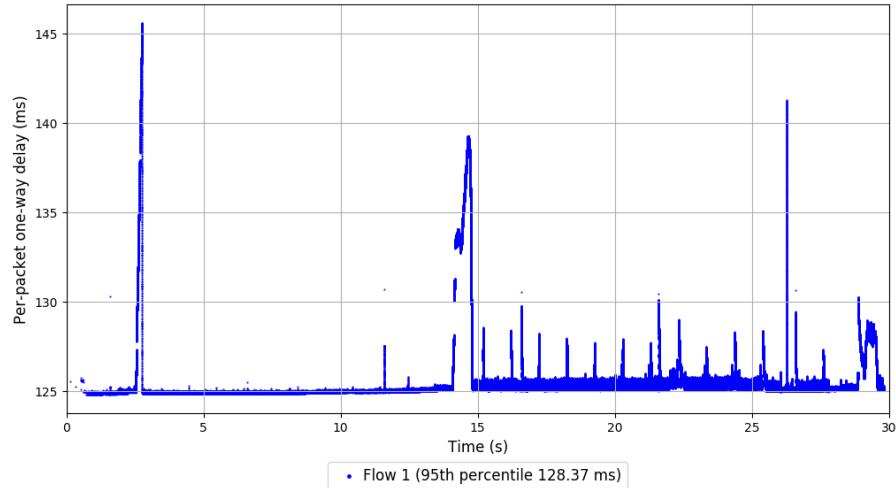
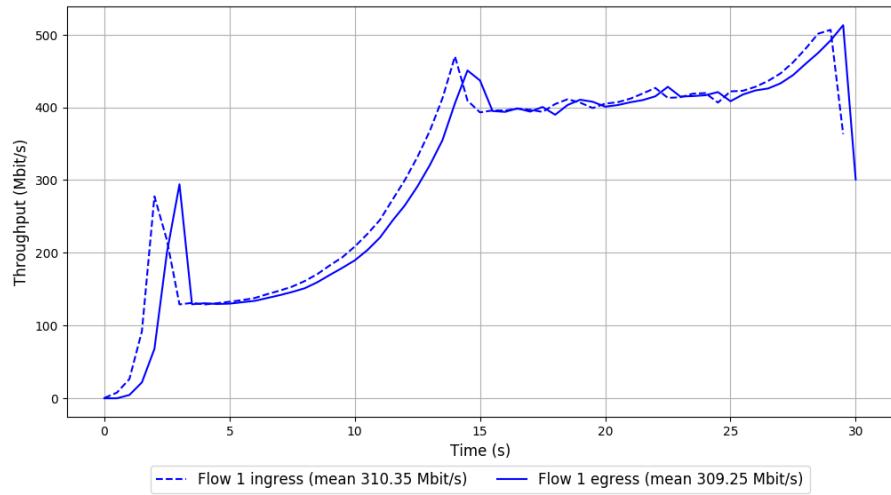


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-21 21:59:32
End at: 2019-01-21 22:00:02
Local clock offset: -0.023 ms
Remote clock offset: -34.752 ms

# Below is generated by plot.py at 2019-01-22 00:33:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 309.25 Mbit/s
95th percentile per-packet one-way delay: 128.370 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 309.25 Mbit/s
95th percentile per-packet one-way delay: 128.370 ms
Loss rate: 1.01%
```

Run 2: Report of PCC-Allegro — Data Link

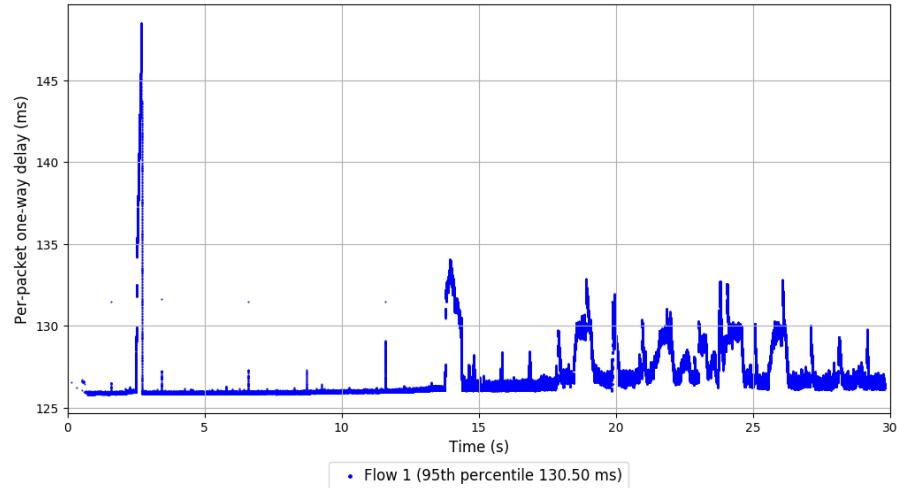
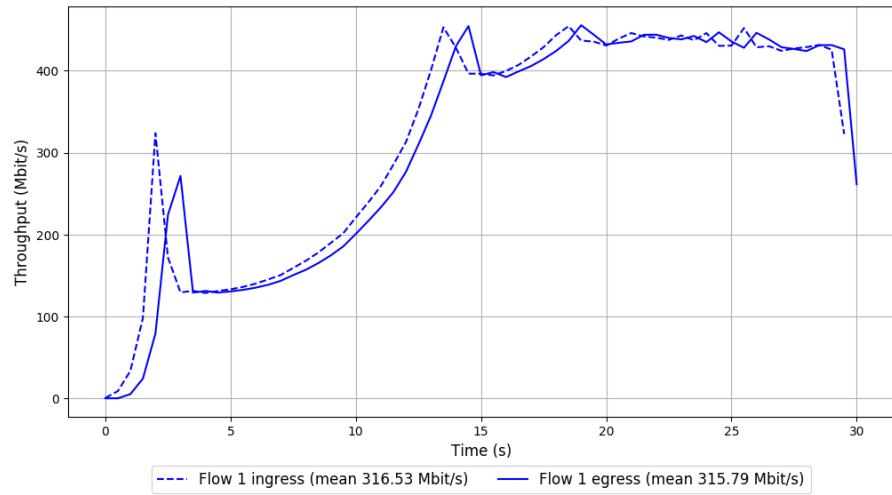


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-21 22:42:55
End at: 2019-01-21 22:43:25
Local clock offset: 0.581 ms
Remote clock offset: -33.464 ms

# Below is generated by plot.py at 2019-01-22 00:33:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.79 Mbit/s
95th percentile per-packet one-way delay: 130.503 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 315.79 Mbit/s
95th percentile per-packet one-way delay: 130.503 ms
Loss rate: 0.89%
```

Run 3: Report of PCC-Allegro — Data Link

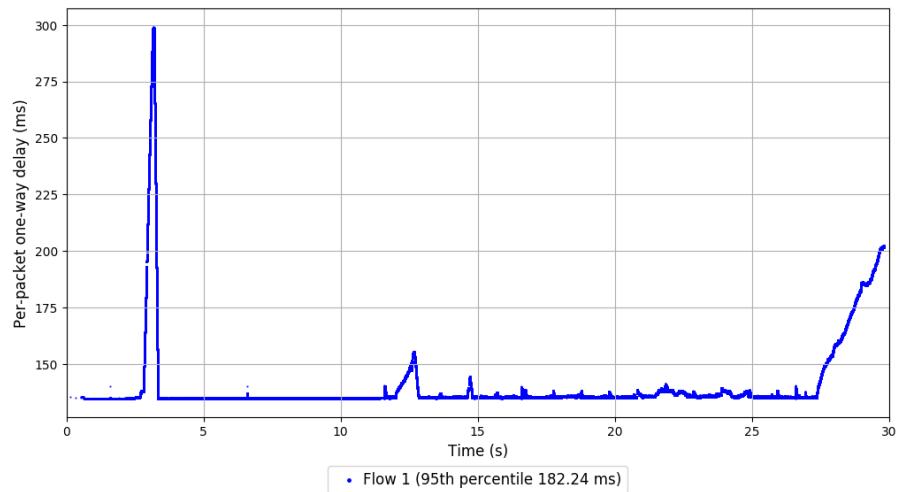
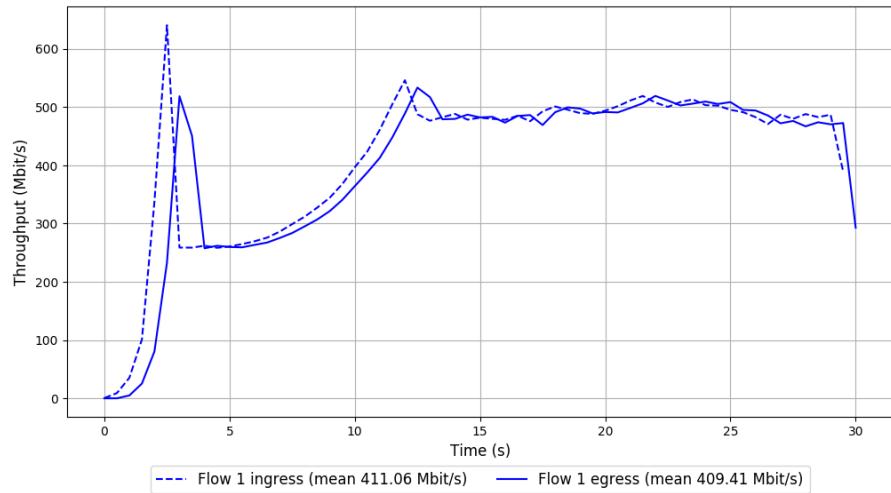


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-21 23:16:24
End at: 2019-01-21 23:16:54
Local clock offset: 2.035 ms
Remote clock offset: -39.492 ms

# Below is generated by plot.py at 2019-01-22 00:35:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 409.41 Mbit/s
95th percentile per-packet one-way delay: 182.237 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 409.41 Mbit/s
95th percentile per-packet one-way delay: 182.237 ms
Loss rate: 1.17%
```

Run 4: Report of PCC-Allegro — Data Link

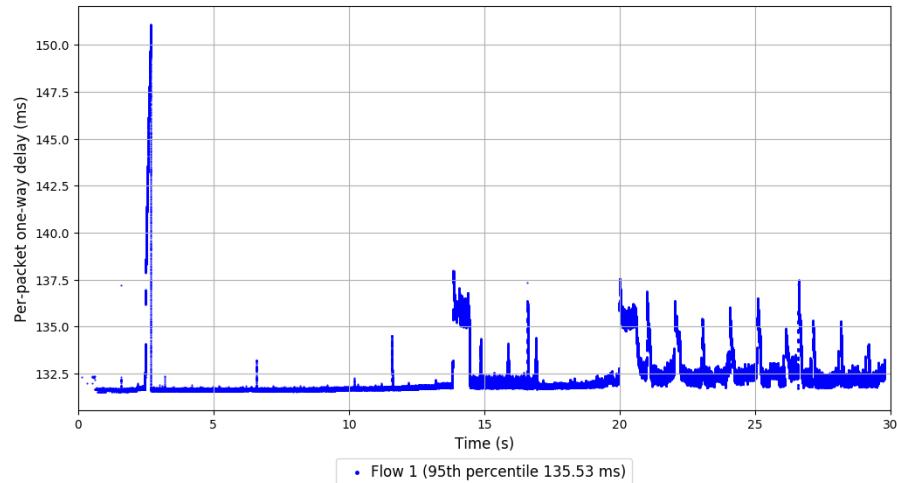
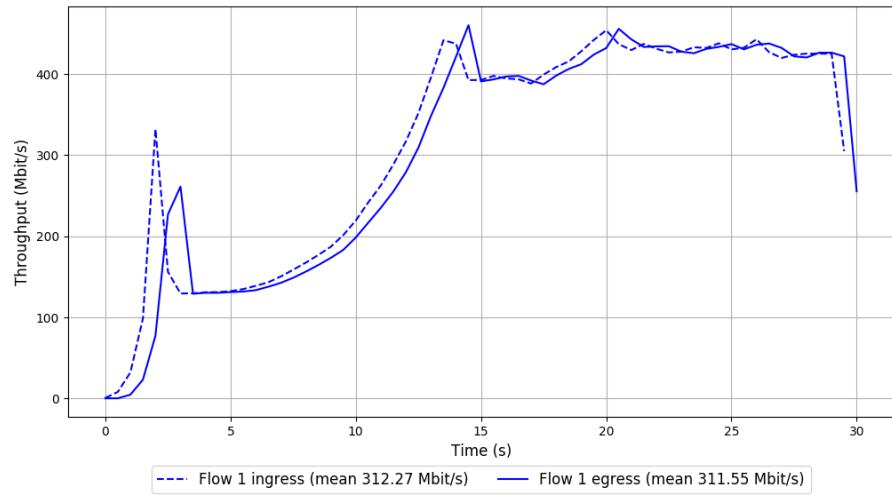


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-21 23:44:51
End at: 2019-01-21 23:45:21
Local clock offset: 0.633 ms
Remote clock offset: -38.418 ms

# Below is generated by plot.py at 2019-01-22 00:35:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 311.55 Mbit/s
95th percentile per-packet one-way delay: 135.534 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 311.55 Mbit/s
95th percentile per-packet one-way delay: 135.534 ms
Loss rate: 0.88%
```

Run 5: Report of PCC-Allegro — Data Link

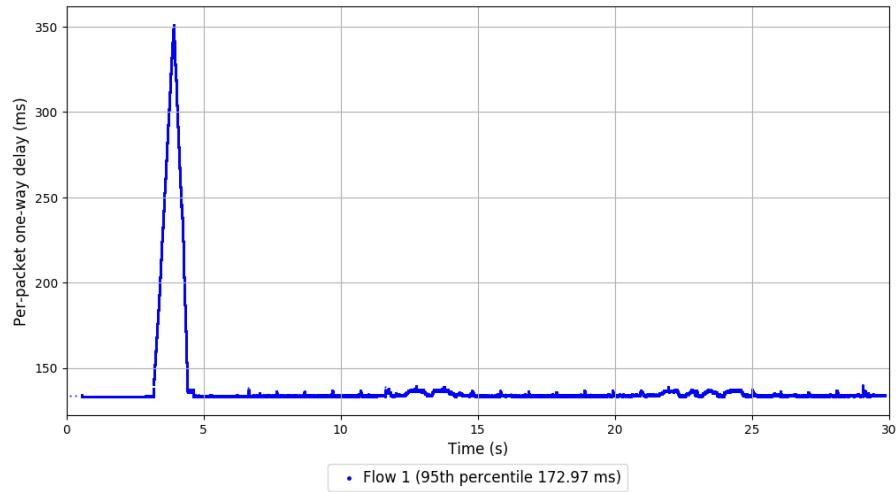
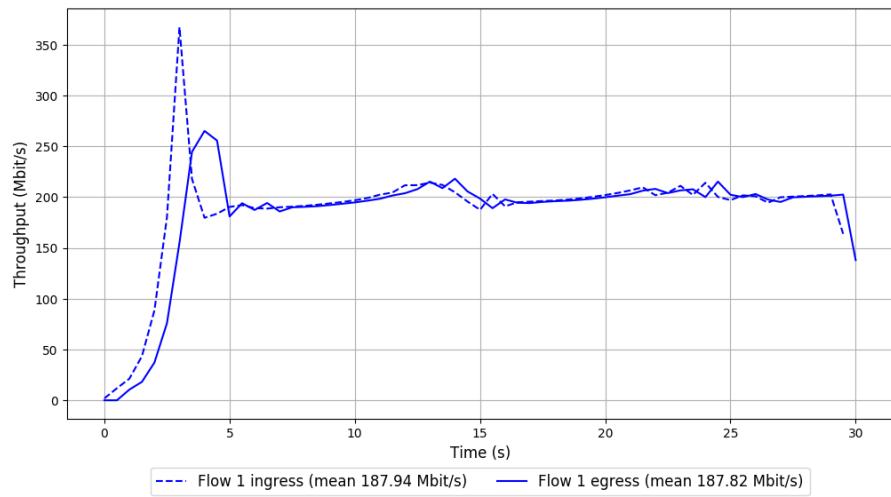


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-21 21:12:24
End at: 2019-01-21 21:12:54
Local clock offset: 0.891 ms
Remote clock offset: -41.378 ms

# Below is generated by plot.py at 2019-01-22 00:36:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.82 Mbit/s
95th percentile per-packet one-way delay: 172.966 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 187.82 Mbit/s
95th percentile per-packet one-way delay: 172.966 ms
Loss rate: 0.72%
```

Run 1: Report of PCC-Expr — Data Link

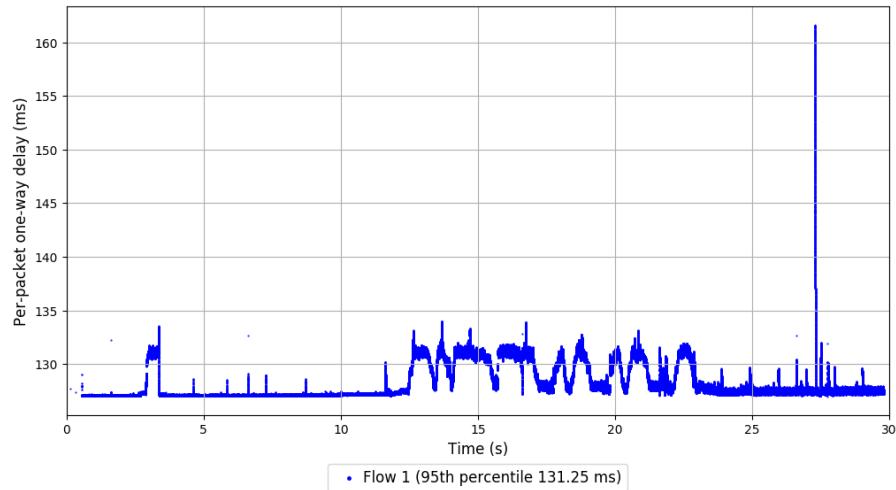
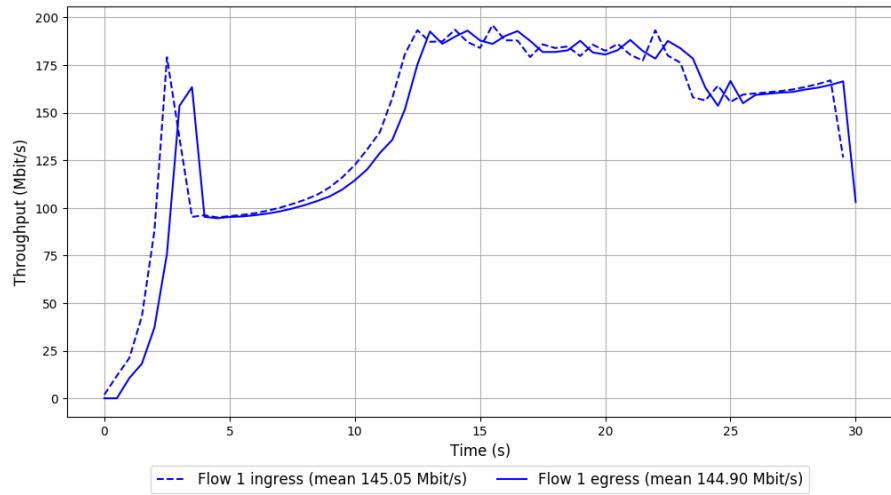


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-21 21:52:20
End at: 2019-01-21 21:52:50
Local clock offset: 0.527 ms
Remote clock offset: -34.622 ms

# Below is generated by plot.py at 2019-01-22 00:36:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.90 Mbit/s
95th percentile per-packet one-way delay: 131.247 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 144.90 Mbit/s
95th percentile per-packet one-way delay: 131.247 ms
Loss rate: 0.76%
```

Run 2: Report of PCC-Expr — Data Link

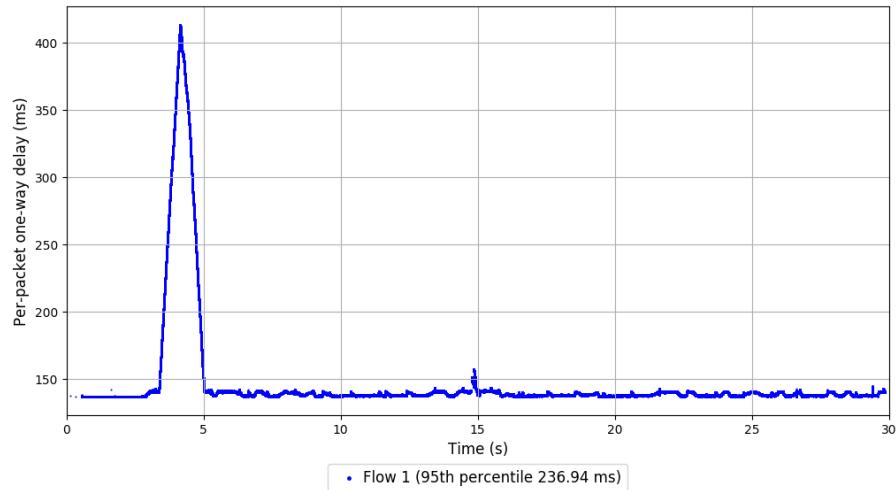
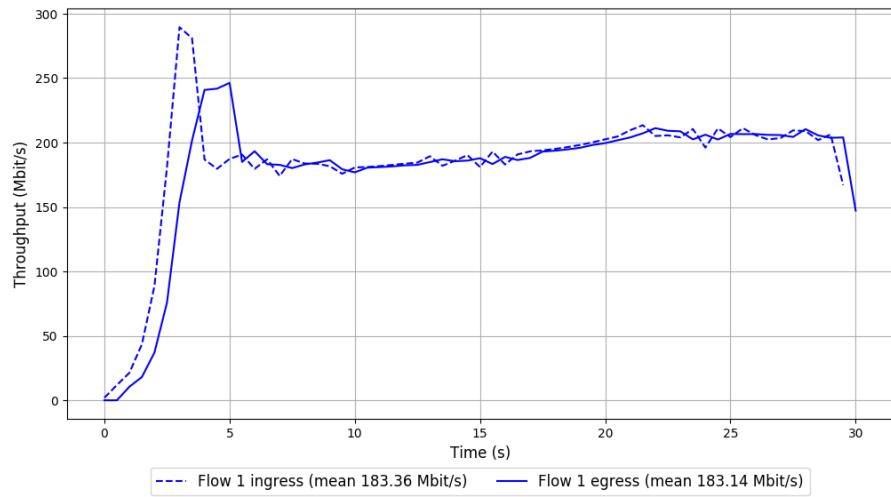


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-21 22:40:03
End at: 2019-01-21 22:40:33
Local clock offset: -2.735 ms
Remote clock offset: -46.356 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.14 Mbit/s
95th percentile per-packet one-way delay: 236.935 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 183.14 Mbit/s
95th percentile per-packet one-way delay: 236.935 ms
Loss rate: 0.77%
```

Run 3: Report of PCC-Expr — Data Link

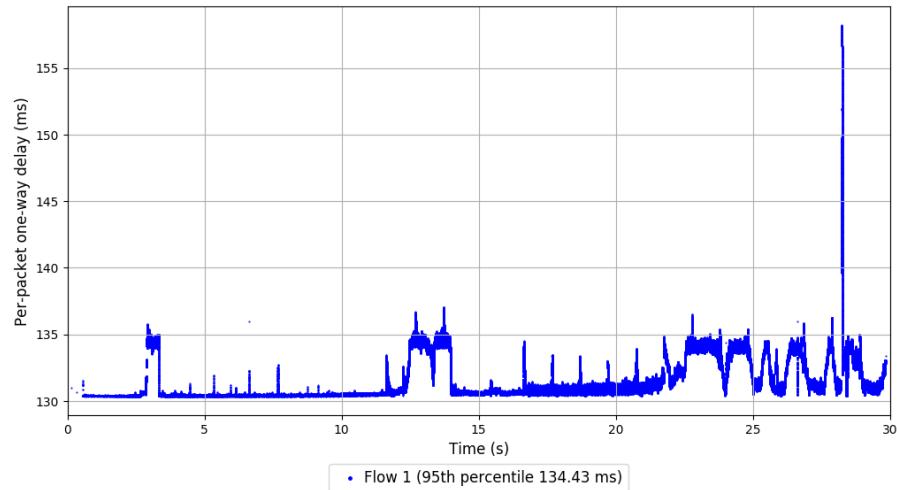
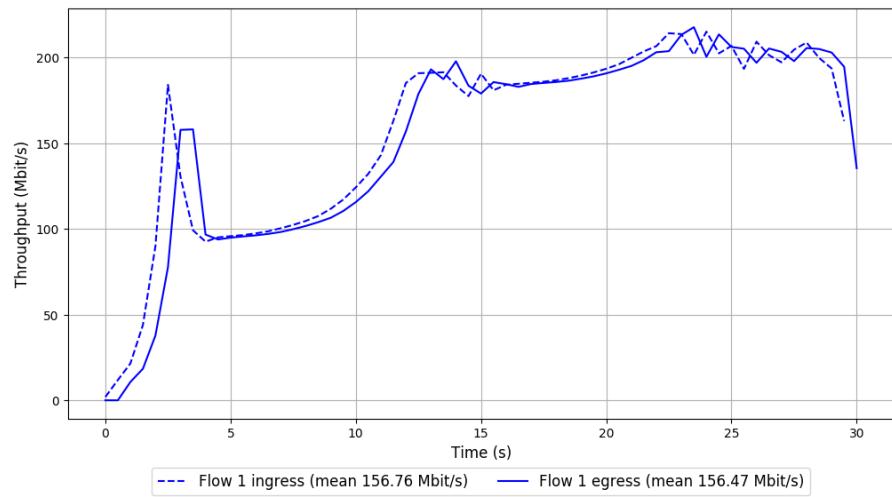


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-21 23:13:35
End at: 2019-01-21 23:14:05
Local clock offset: -0.027 ms
Remote clock offset: -38.889 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.47 Mbit/s
95th percentile per-packet one-way delay: 134.427 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 156.47 Mbit/s
95th percentile per-packet one-way delay: 134.427 ms
Loss rate: 0.83%
```

Run 4: Report of PCC-Expr — Data Link

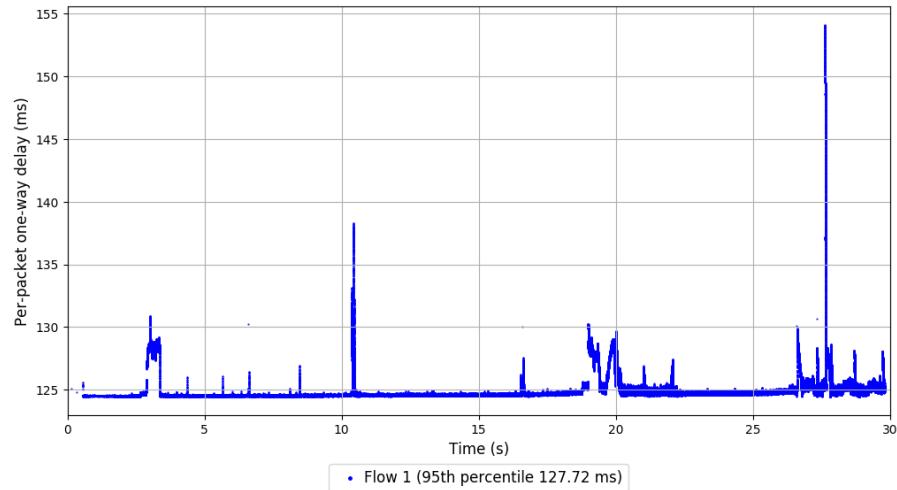
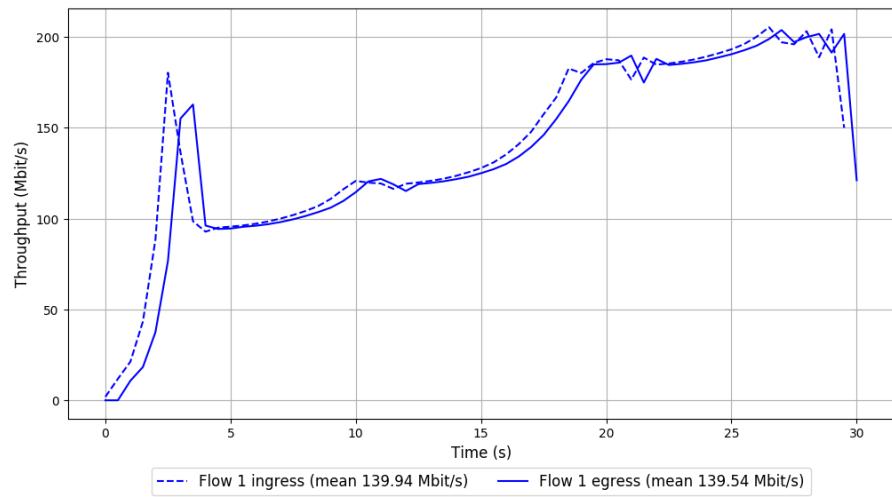


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-21 23:42:04
End at: 2019-01-21 23:42:34
Local clock offset: -0.506 ms
Remote clock offset: -30.543 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 139.54 Mbit/s
95th percentile per-packet one-way delay: 127.722 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 139.54 Mbit/s
95th percentile per-packet one-way delay: 127.722 ms
Loss rate: 0.94%
```

Run 5: Report of PCC-Expr — Data Link

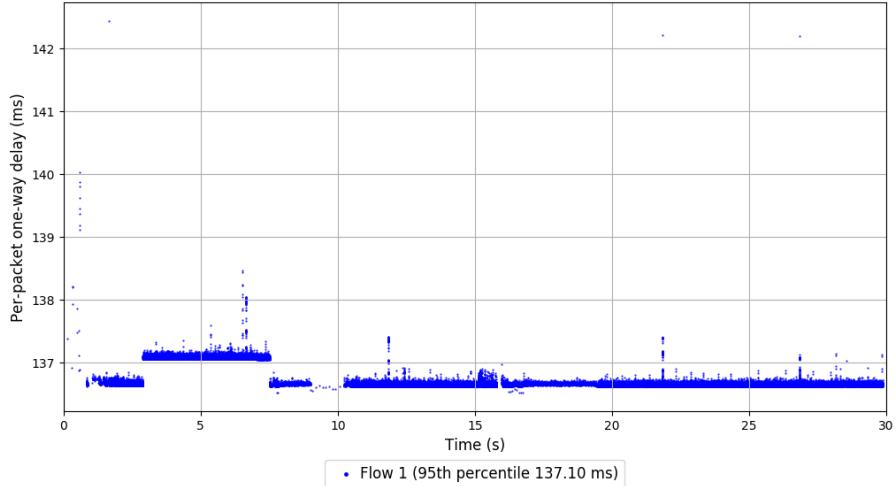
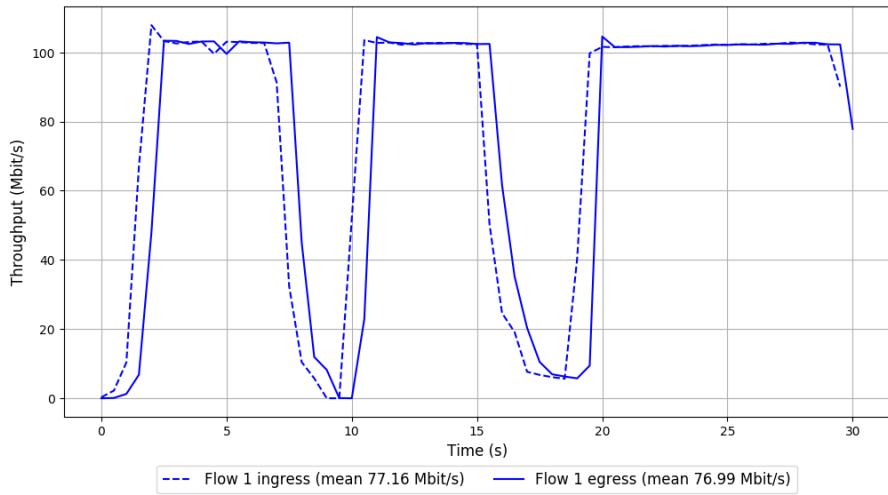


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-01-21 21:03:03
End at: 2019-01-21 21:03:33
Local clock offset: -0.694 ms
Remote clock offset: -46.56 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.99 Mbit/s
95th percentile per-packet one-way delay: 137.097 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 76.99 Mbit/s
95th percentile per-packet one-way delay: 137.097 ms
Loss rate: 0.87%
```

Run 1: Report of QUIC Cubic — Data Link

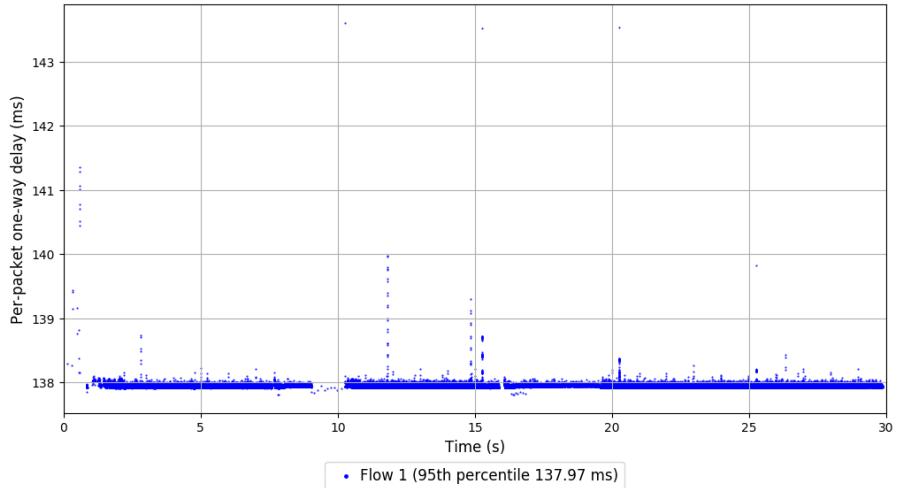
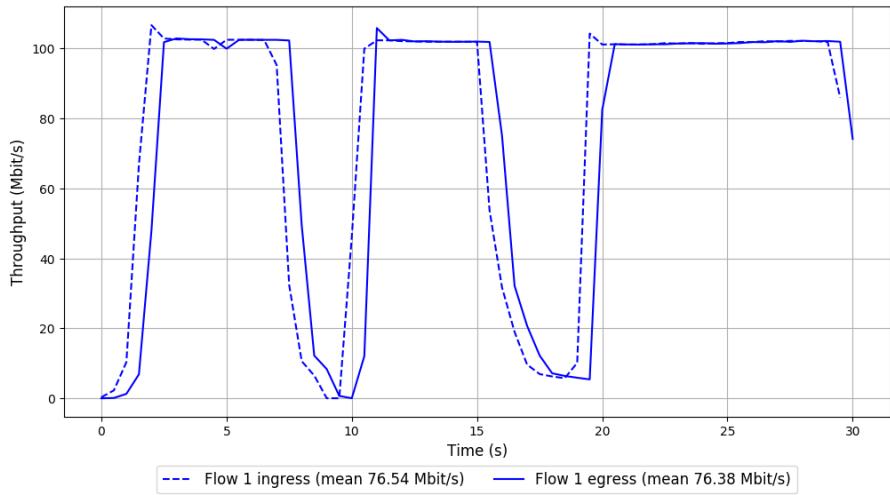


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-21 21:43:18
End at: 2019-01-21 21:43:48
Local clock offset: 2.819 ms
Remote clock offset: -43.223 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.38 Mbit/s
95th percentile per-packet one-way delay: 137.968 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 76.38 Mbit/s
95th percentile per-packet one-way delay: 137.968 ms
Loss rate: 0.87%
```

Run 2: Report of QUIC Cubic — Data Link

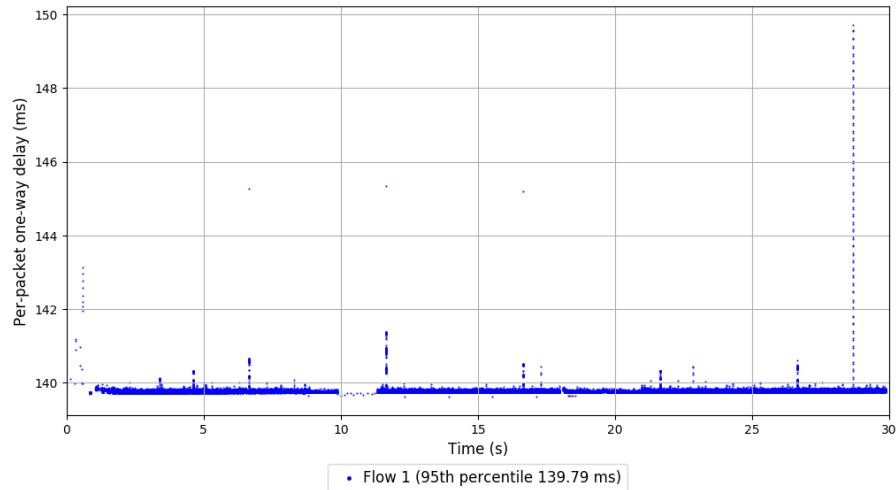
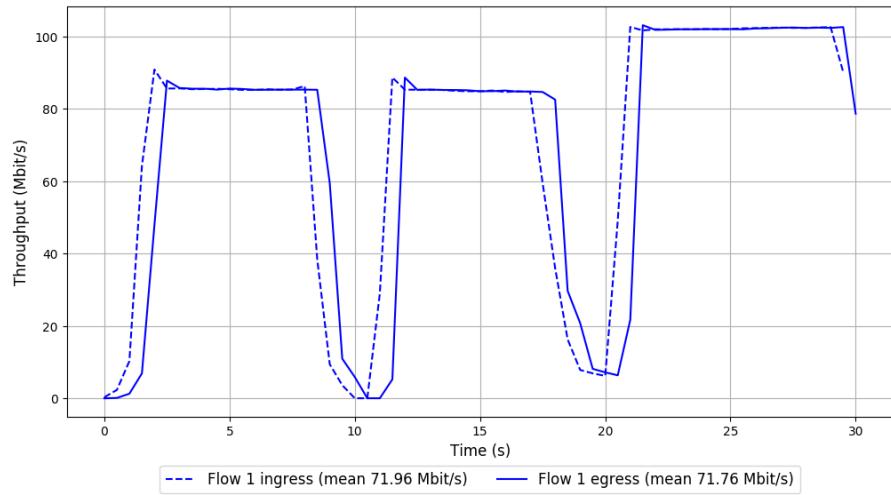


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-21 22:21:27
End at: 2019-01-21 22:21:57
Local clock offset: 1.309 ms
Remote clock offset: -45.932 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.76 Mbit/s
95th percentile per-packet one-way delay: 139.793 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 71.76 Mbit/s
95th percentile per-packet one-way delay: 139.793 ms
Loss rate: 0.93%
```

Run 3: Report of QUIC Cubic — Data Link

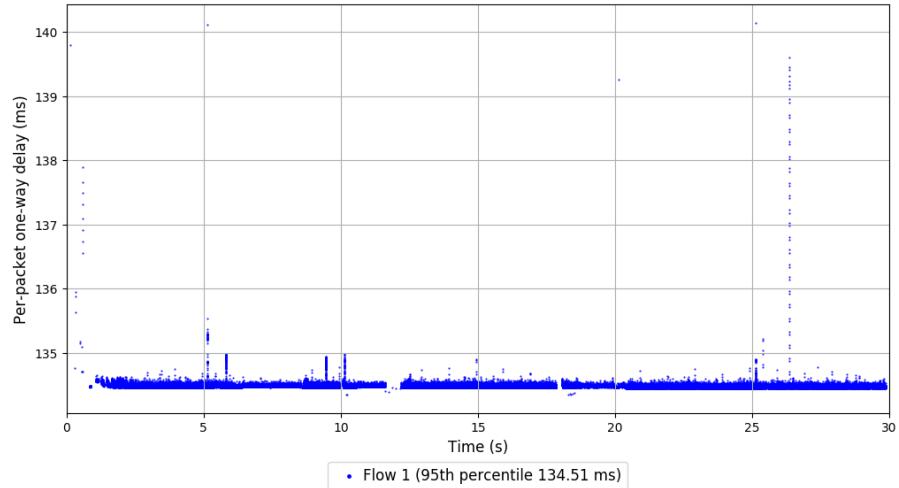
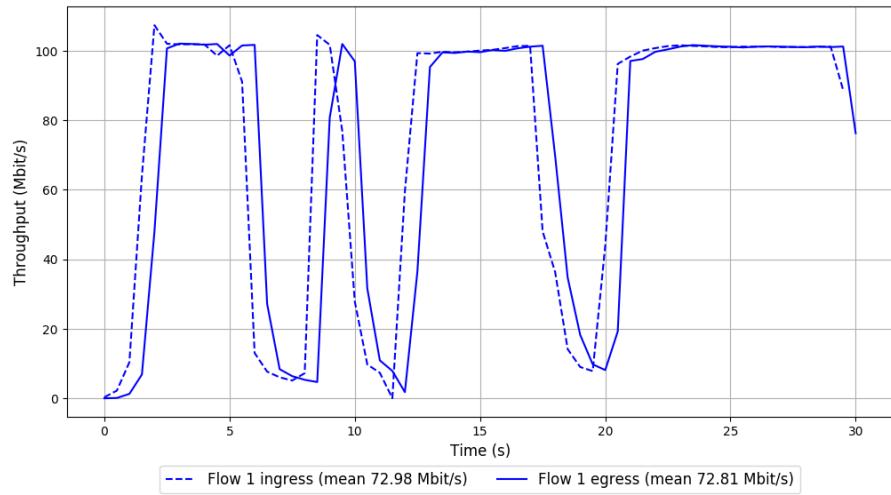


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-21 23:04:48
End at: 2019-01-21 23:05:18
Local clock offset: 1.117 ms
Remote clock offset: -40.542 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.81 Mbit/s
95th percentile per-packet one-way delay: 134.513 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 72.81 Mbit/s
95th percentile per-packet one-way delay: 134.513 ms
Loss rate: 0.91%
```

Run 4: Report of QUIC Cubic — Data Link

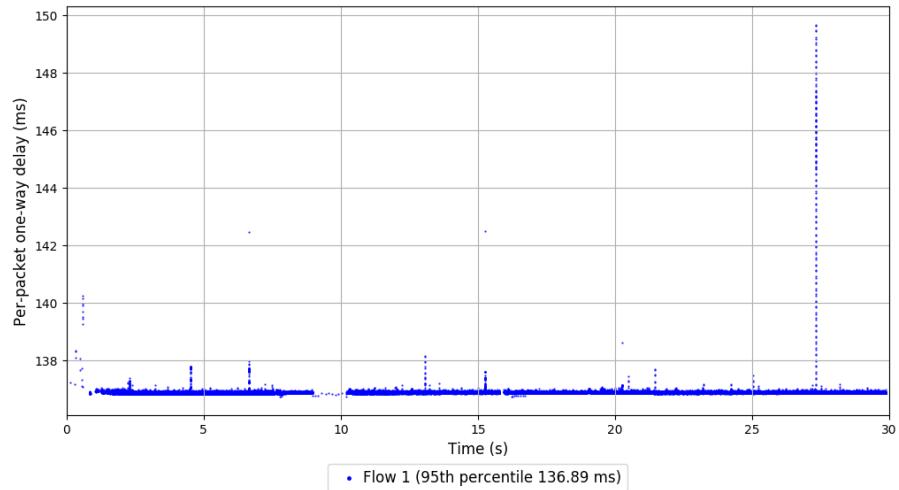
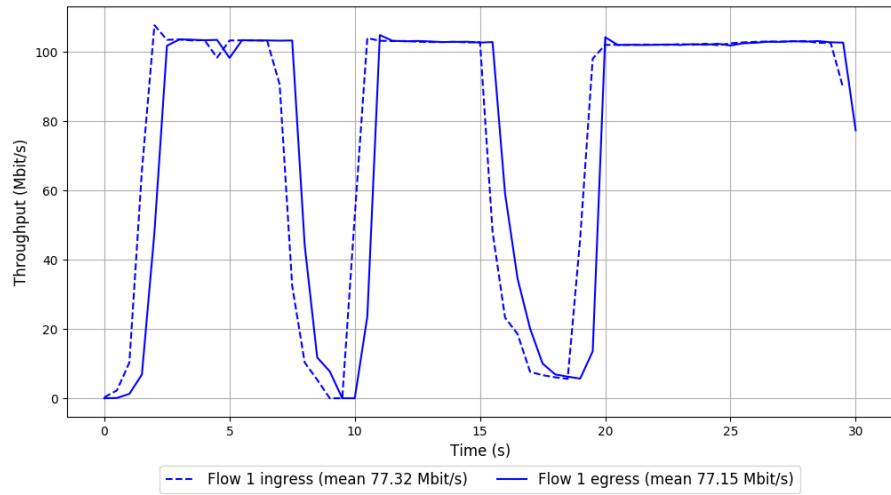


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-21 23:33:00
End at: 2019-01-21 23:33:30
Local clock offset: 0.247 ms
Remote clock offset: -42.289 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.15 Mbit/s
95th percentile per-packet one-way delay: 136.889 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 77.15 Mbit/s
95th percentile per-packet one-way delay: 136.889 ms
Loss rate: 0.87%
```

Run 5: Report of QUIC Cubic — Data Link

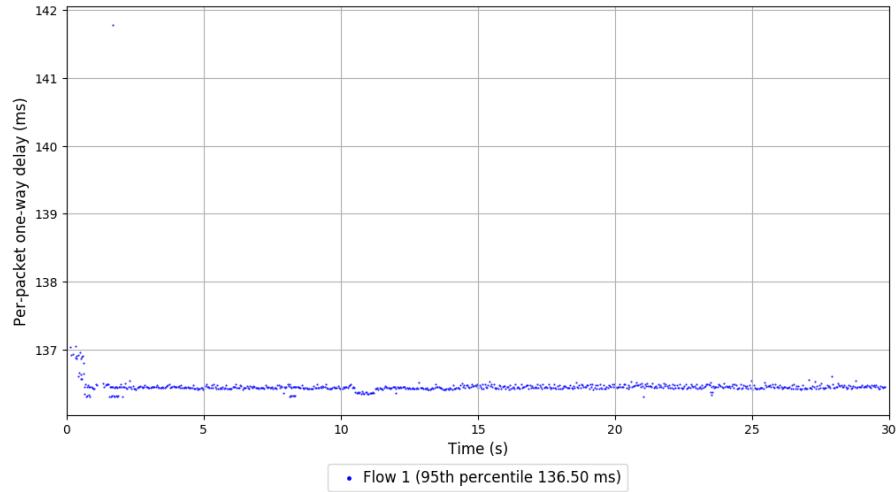
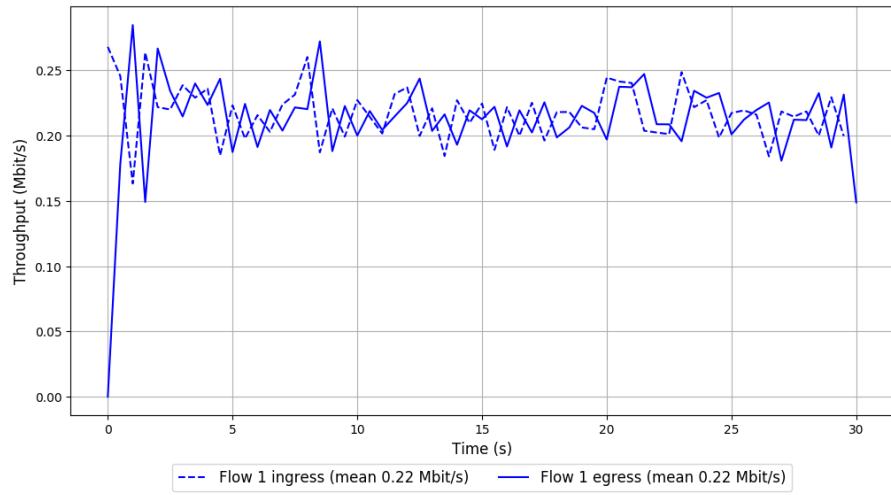


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-01-21 21:05:52
End at: 2019-01-21 21:06:22
Local clock offset: 1.646 ms
Remote clock offset: -43.875 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.503 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.503 ms
Loss rate: 0.77%
```

Run 1: Report of SCReAM — Data Link

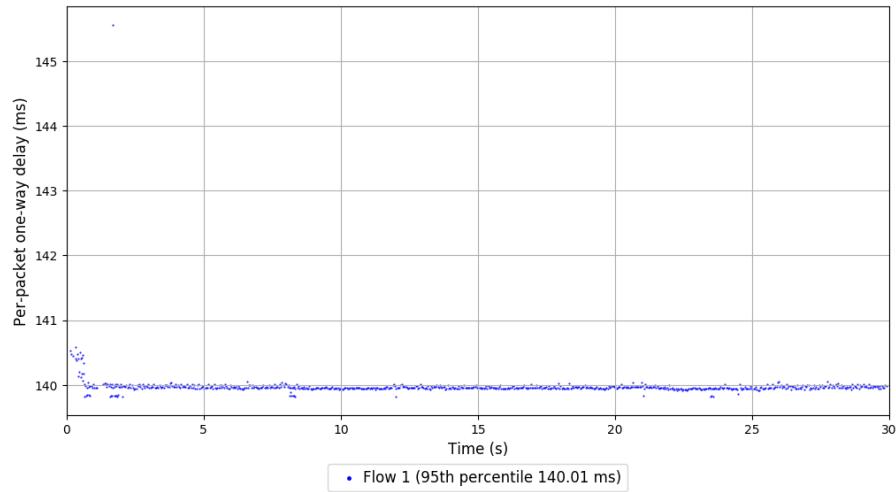
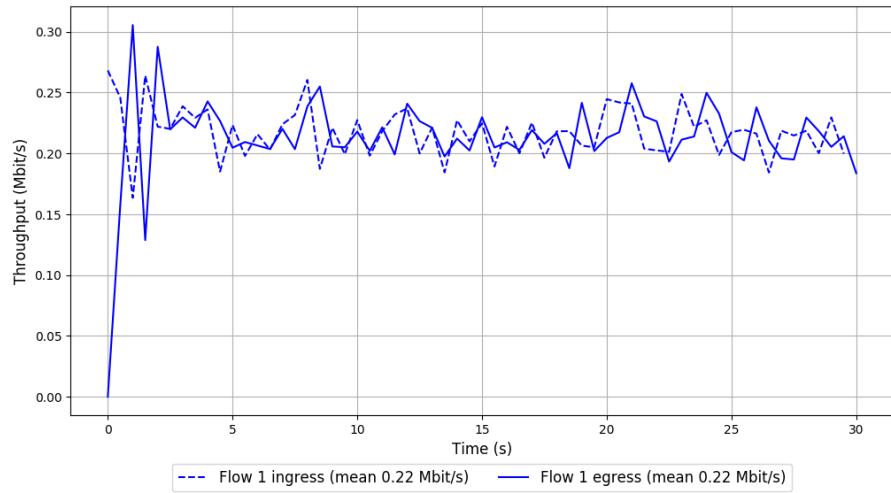


Run 2: Statistics of SCReAM

```
Start at: 2019-01-21 21:45:57
End at: 2019-01-21 21:46:27
Local clock offset: 2.046 ms
Remote clock offset: -46.016 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 140.015 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 140.015 ms
Loss rate: 0.64%
```

Run 2: Report of SCReAM — Data Link

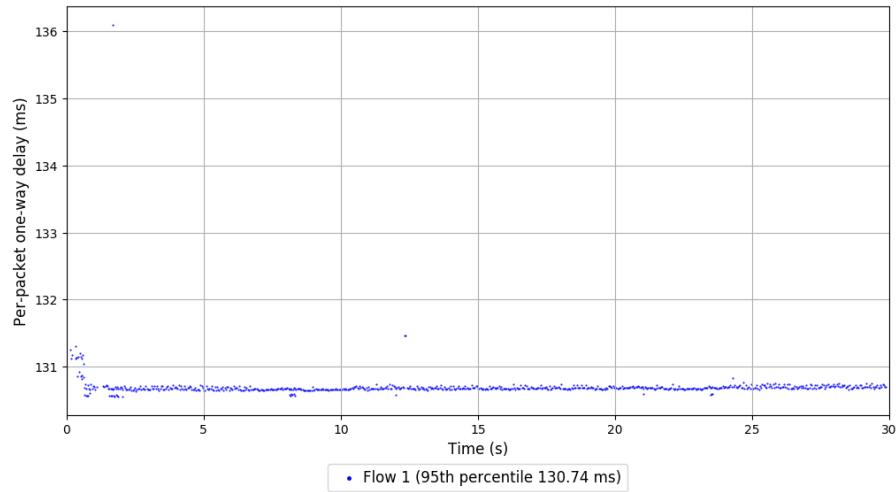
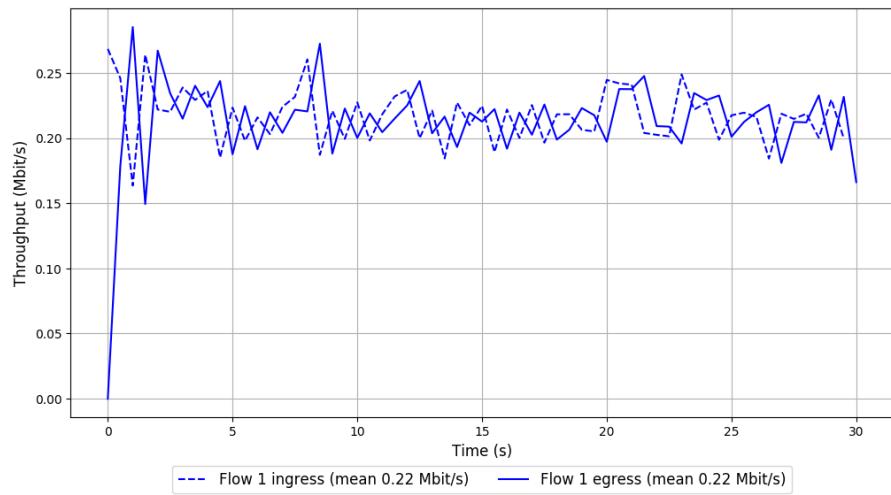


Run 3: Statistics of SCReAM

```
Start at: 2019-01-21 22:24:06
End at: 2019-01-21 22:24:36
Local clock offset: -1.551 ms
Remote clock offset: -39.251 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 130.738 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 130.738 ms
Loss rate: 0.64%
```

Run 3: Report of SCReAM — Data Link

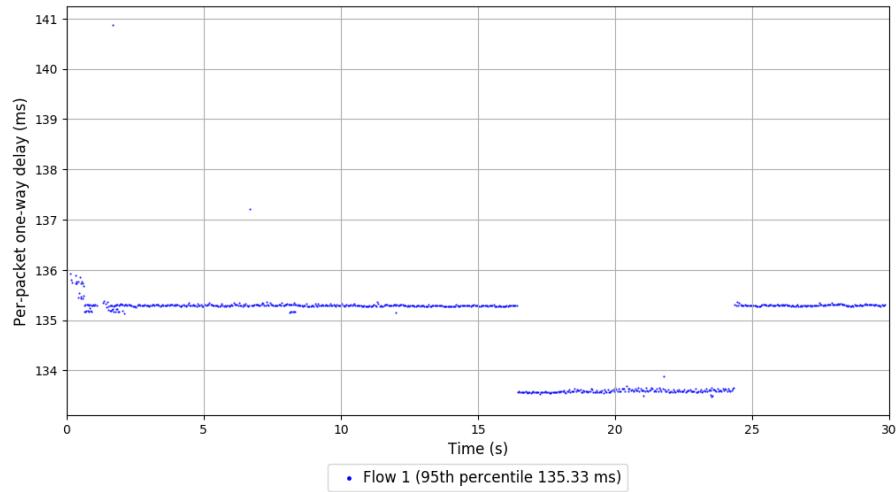
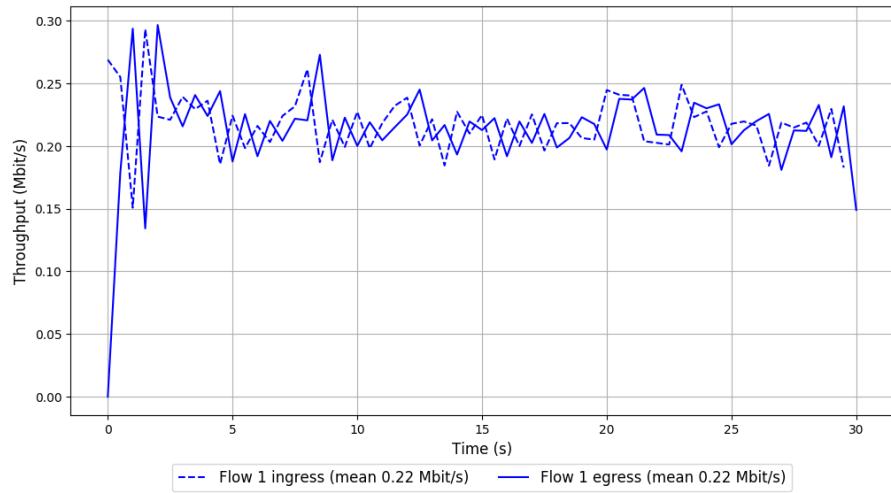


Run 4: Statistics of SCReAM

```
Start at: 2019-01-21 23:07:29
End at: 2019-01-21 23:07:59
Local clock offset: 0.1 ms
Remote clock offset: -42.276 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.331 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.331 ms
Loss rate: 0.64%
```

Run 4: Report of SCReAM — Data Link

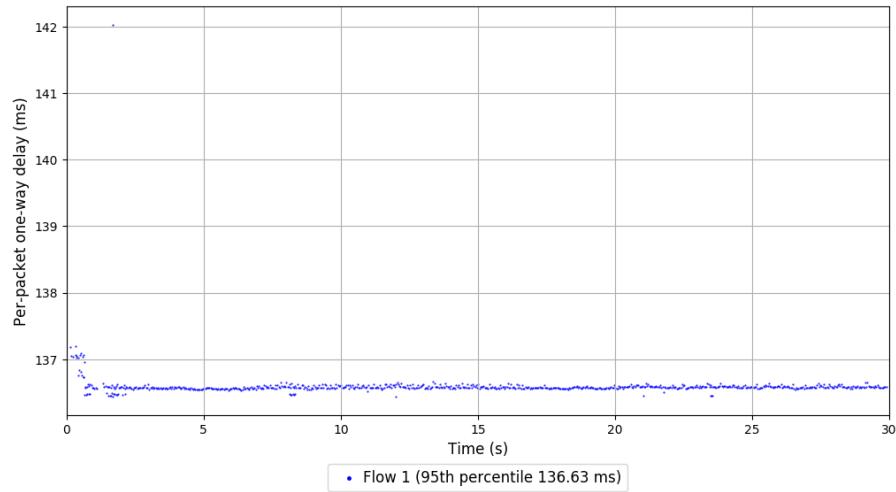
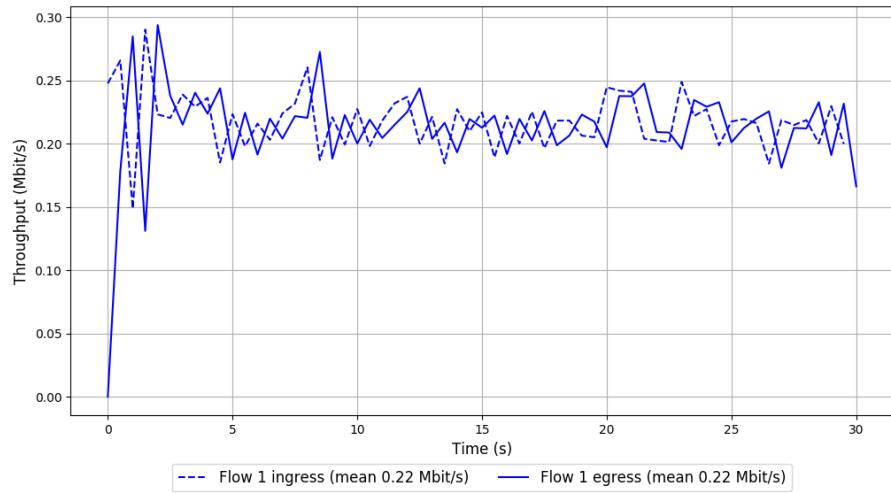


Run 5: Statistics of SCReAM

```
Start at: 2019-01-21 23:35:38
End at: 2019-01-21 23:36:08
Local clock offset: 1.902 ms
Remote clock offset: -40.176 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.628 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.628 ms
Loss rate: 0.64%
```

Run 5: Report of SCReAM — Data Link

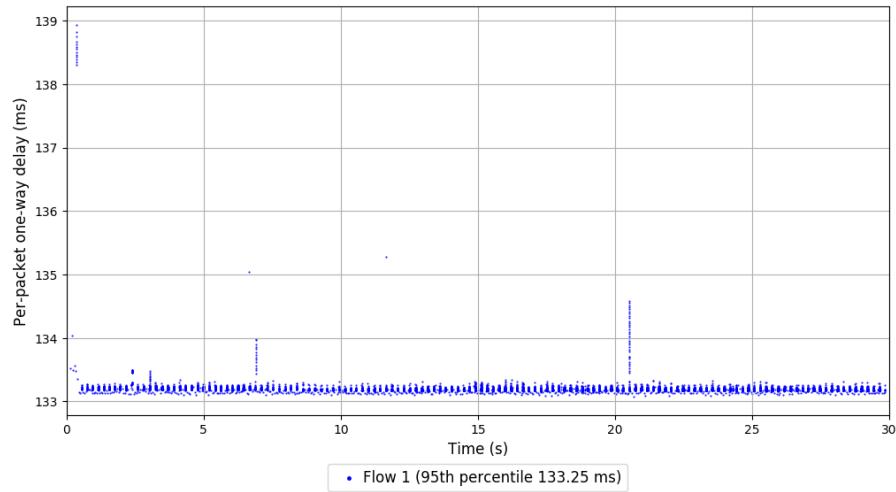
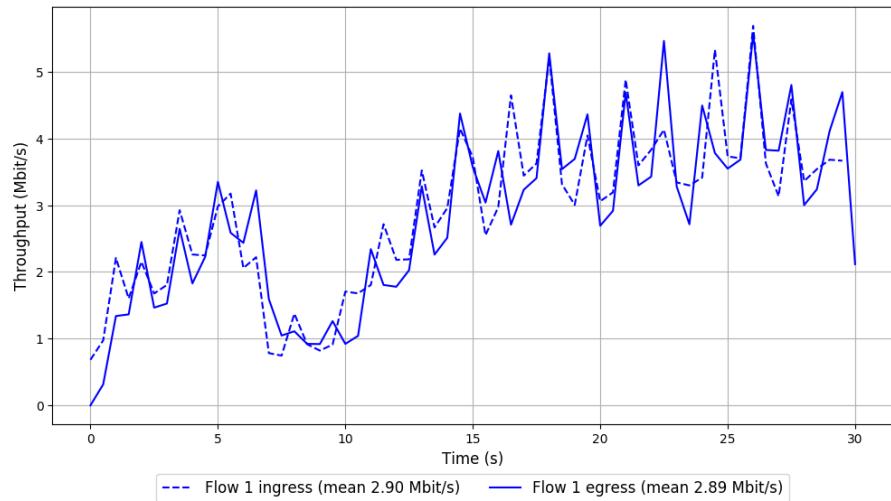


Run 1: Statistics of Sprout

```
Start at: 2019-01-21 21:08:28
End at: 2019-01-21 21:08:58
Local clock offset: 1.24 ms
Remote clock offset: -41.073 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.89 Mbit/s
95th percentile per-packet one-way delay: 133.248 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 2.89 Mbit/s
95th percentile per-packet one-way delay: 133.248 ms
Loss rate: 0.97%
```

Run 1: Report of Sprout — Data Link

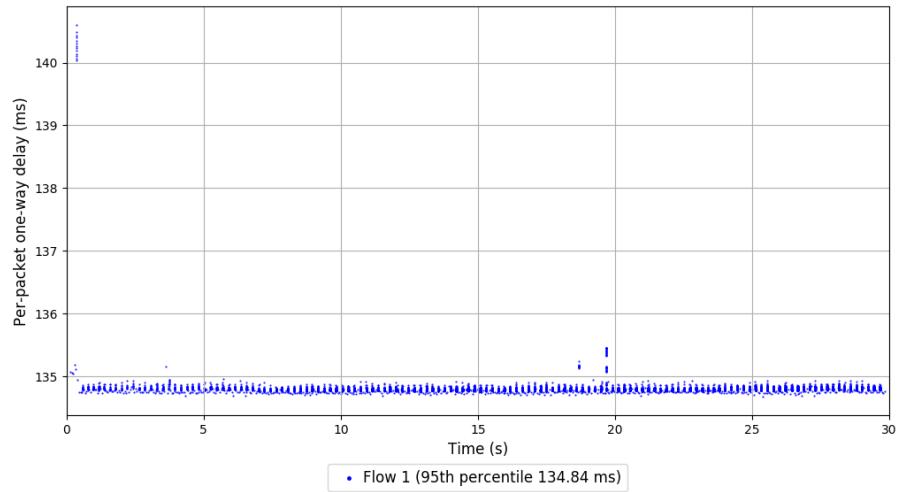
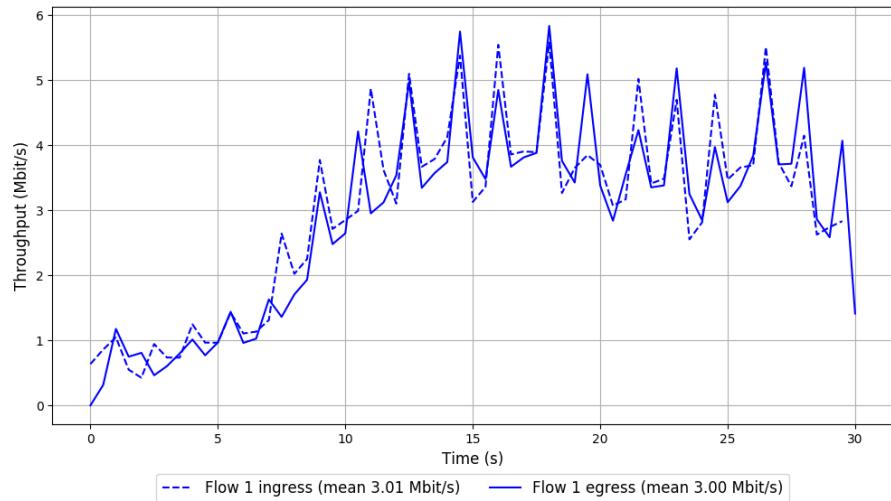


Run 2: Statistics of Sprout

```
Start at: 2019-01-21 21:48:34
End at: 2019-01-21 21:49:04
Local clock offset: 2.383 ms
Remote clock offset: -40.443 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 134.843 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 134.843 ms
Loss rate: 0.79%
```

Run 2: Report of Sprout — Data Link

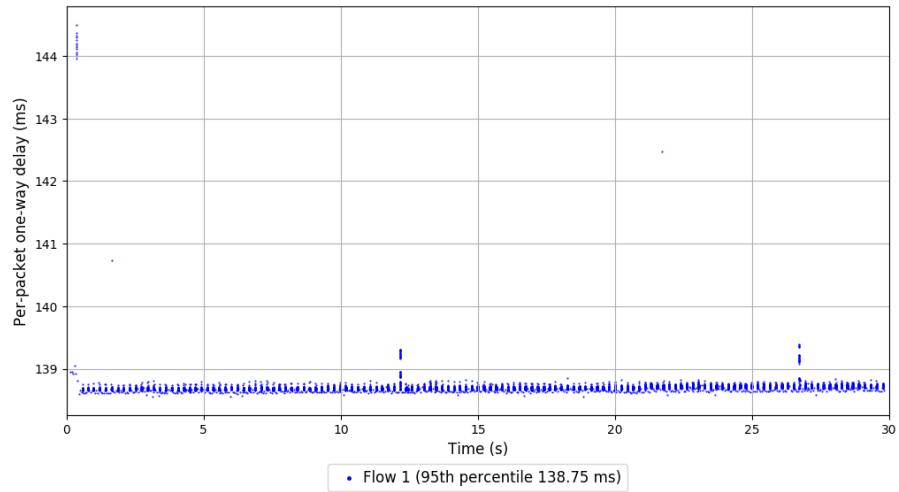
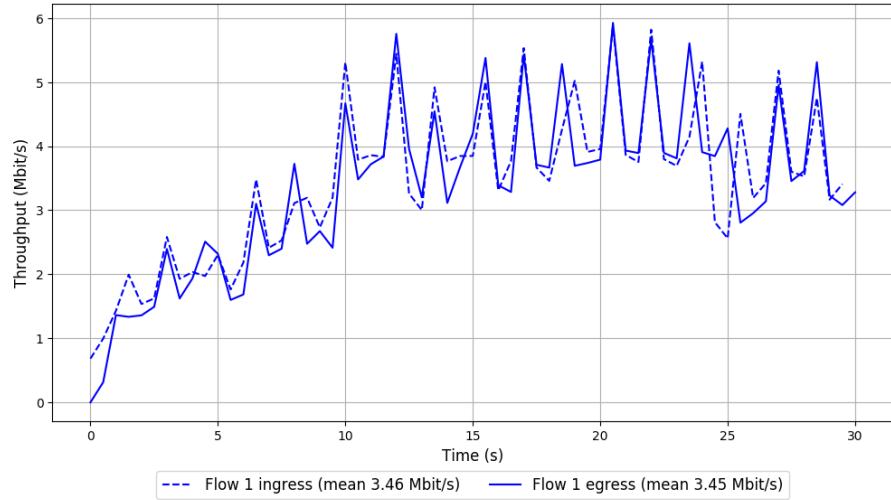


Run 3: Statistics of Sprout

```
Start at: 2019-01-21 22:26:41
End at: 2019-01-21 22:27:11
Local clock offset: -0.753 ms
Remote clock offset: -46.318 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 138.750 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 138.750 ms
Loss rate: 0.84%
```

Run 3: Report of Sprout — Data Link

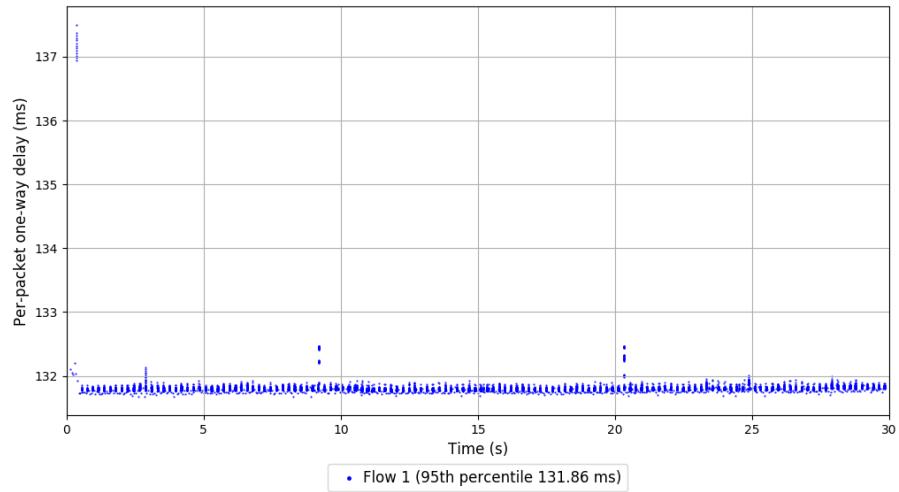
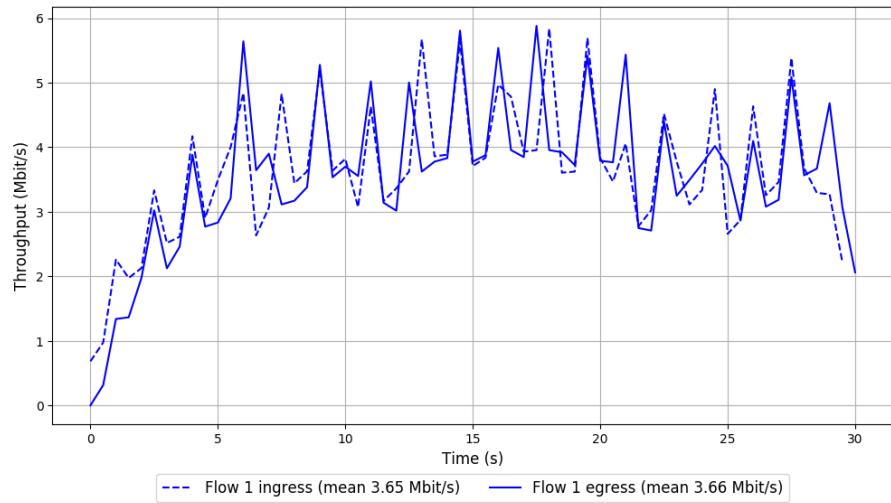


Run 4: Statistics of Sprout

```
Start at: 2019-01-21 23:09:50
End at: 2019-01-21 23:10:20
Local clock offset: -0.669 ms
Remote clock offset: -39.458 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.66 Mbit/s
95th percentile per-packet one-way delay: 131.860 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 3.66 Mbit/s
95th percentile per-packet one-way delay: 131.860 ms
Loss rate: 0.36%
```

Run 4: Report of Sprout — Data Link

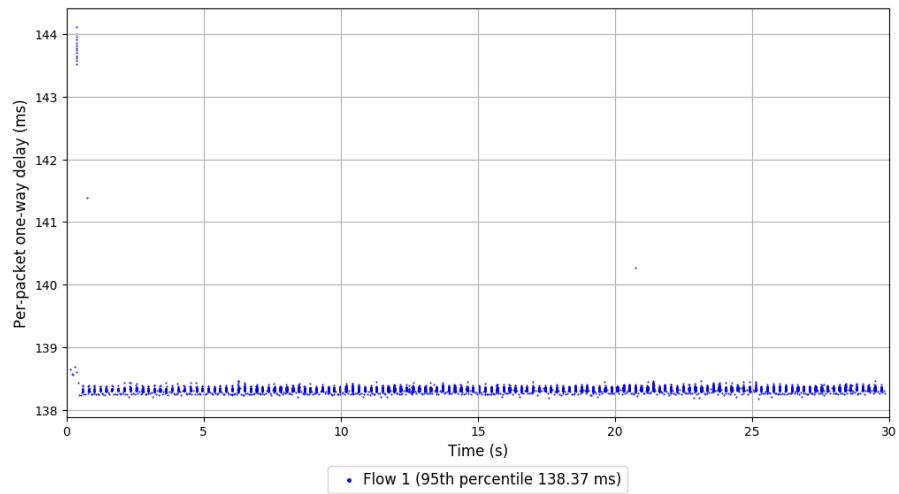
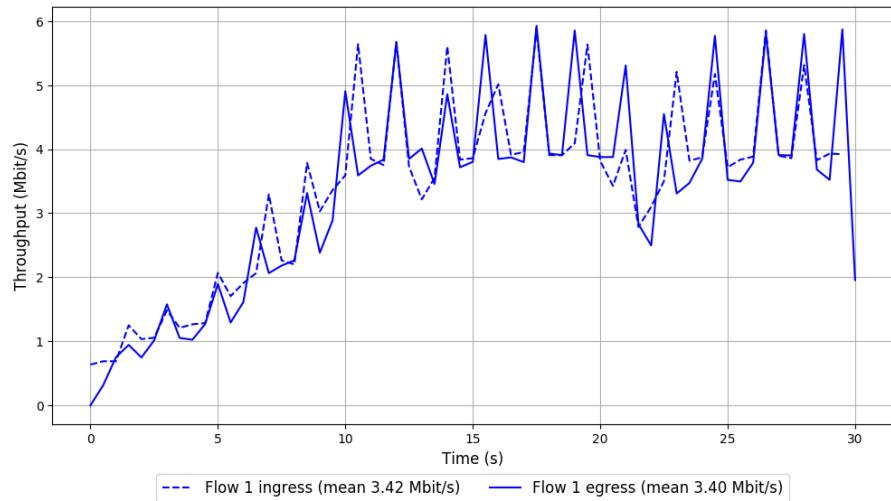


Run 5: Statistics of Sprout

```
Start at: 2019-01-21 23:38:14
End at: 2019-01-21 23:38:44
Local clock offset: 0.907 ms
Remote clock offset: -44.572 ms

# Below is generated by plot.py at 2019-01-22 00:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 138.368 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 138.368 ms
Loss rate: 0.96%
```

Run 5: Report of Sprout — Data Link

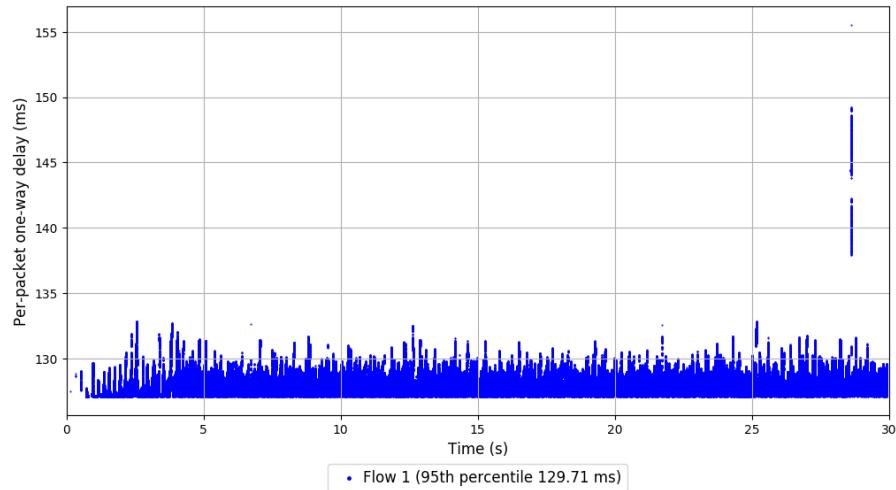
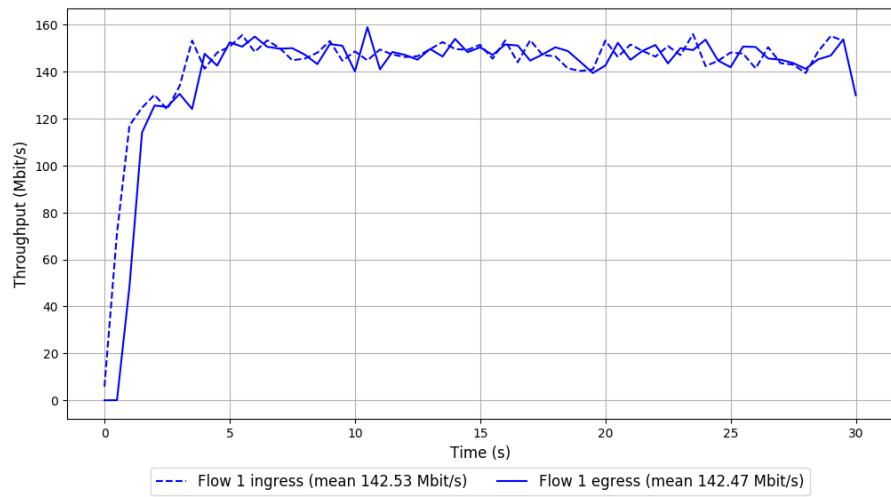


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-21 21:40:46
End at: 2019-01-21 21:41:16
Local clock offset: 1.222 ms
Remote clock offset: -34.029 ms

# Below is generated by plot.py at 2019-01-22 00:39:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 142.47 Mbit/s
95th percentile per-packet one-way delay: 129.712 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 142.47 Mbit/s
95th percentile per-packet one-way delay: 129.712 ms
Loss rate: 0.70%
```

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

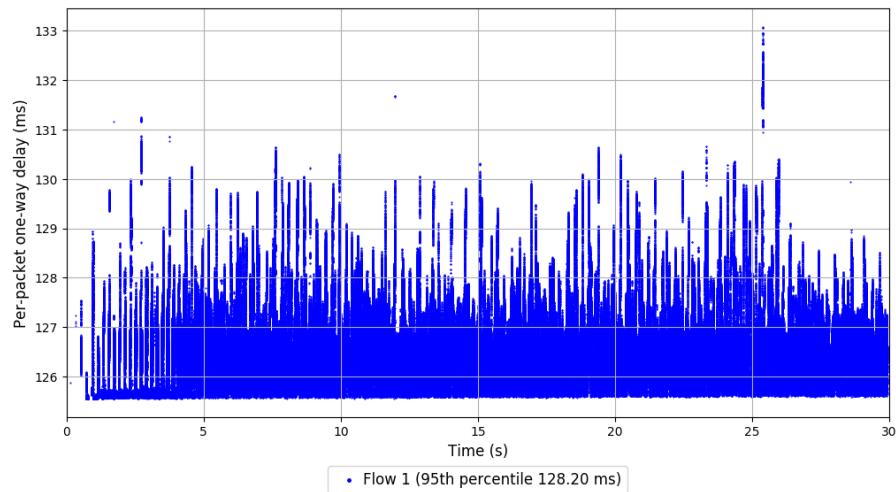
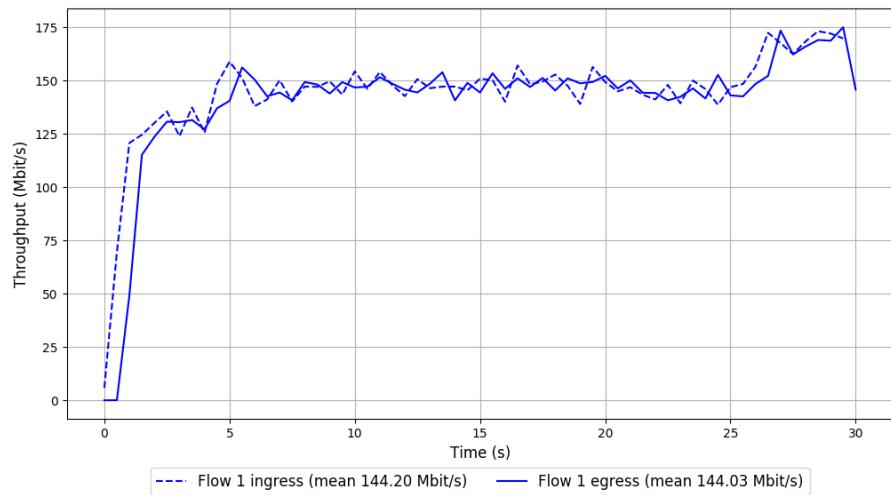


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-21 22:18:55
End at: 2019-01-21 22:19:25
Local clock offset: 0.3 ms
Remote clock offset: -34.512 ms

# Below is generated by plot.py at 2019-01-22 00:39:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.03 Mbit/s
95th percentile per-packet one-way delay: 128.196 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 144.03 Mbit/s
95th percentile per-packet one-way delay: 128.196 ms
Loss rate: 0.76%
```

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

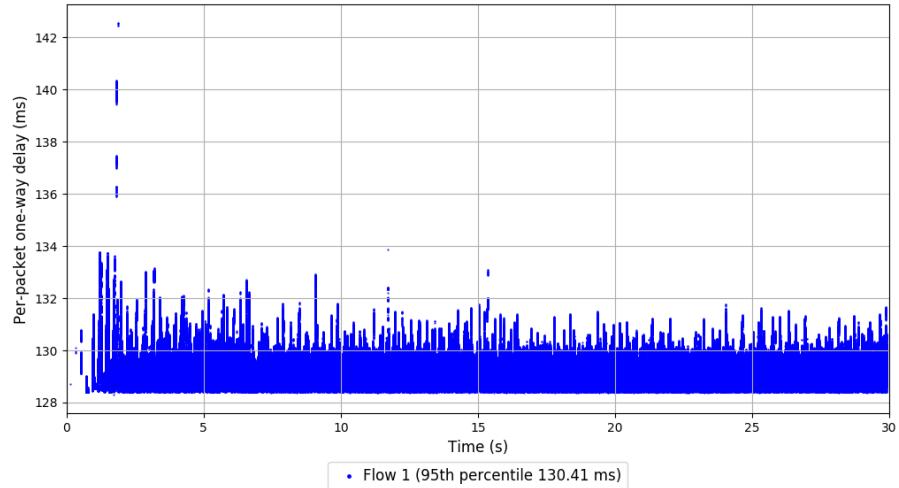
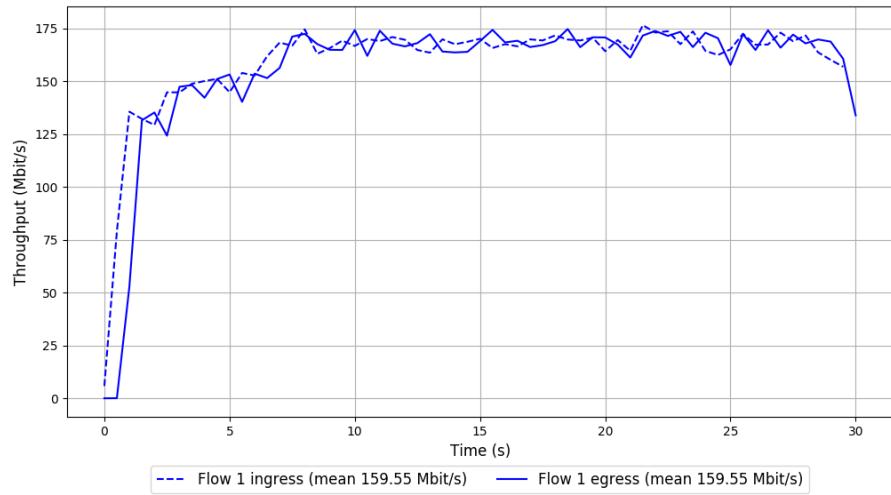


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-21 23:02:15
End at: 2019-01-21 23:02:45
Local clock offset: 0.433 ms
Remote clock offset: -35.103 ms

# Below is generated by plot.py at 2019-01-22 00:39:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.55 Mbit/s
95th percentile per-packet one-way delay: 130.410 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 159.55 Mbit/s
95th percentile per-packet one-way delay: 130.410 ms
Loss rate: 0.65%
```

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

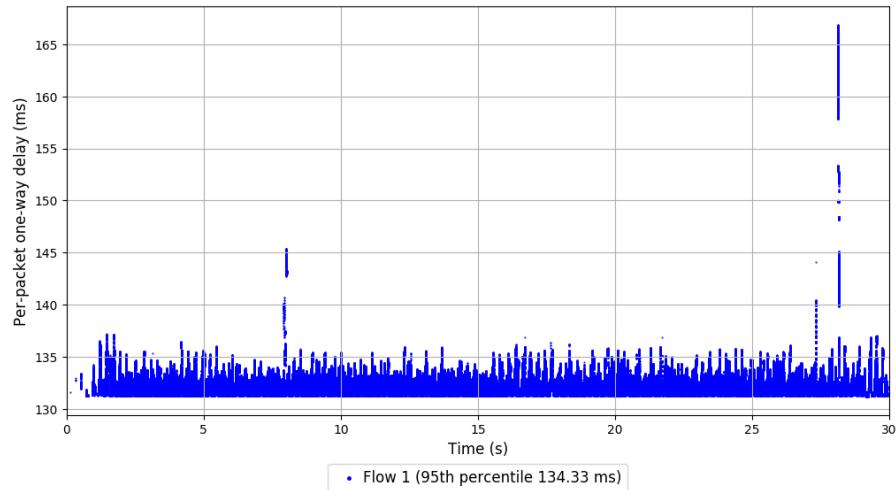
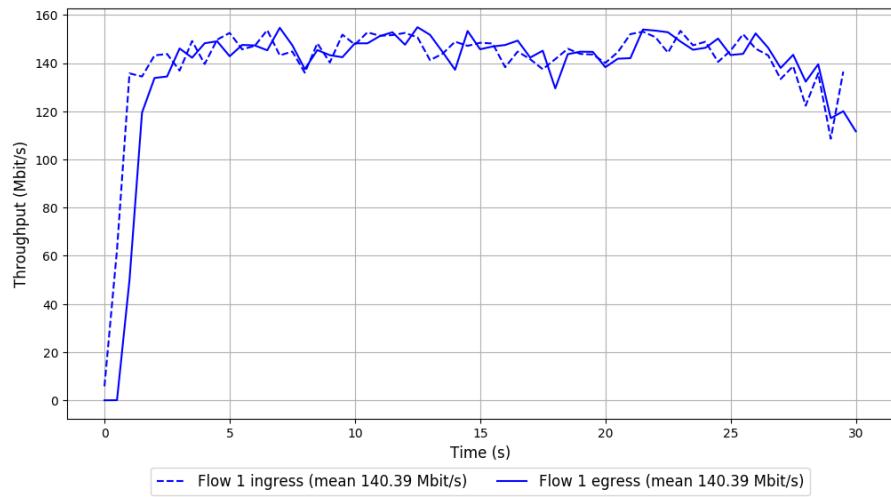


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-21 23:30:07
End at: 2019-01-21 23:30:37
Local clock offset: 0.754 ms
Remote clock offset: -38.027 ms

# Below is generated by plot.py at 2019-01-22 00:39:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 140.39 Mbit/s
95th percentile per-packet one-way delay: 134.331 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 140.39 Mbit/s
95th percentile per-packet one-way delay: 134.331 ms
Loss rate: 0.65%
```

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

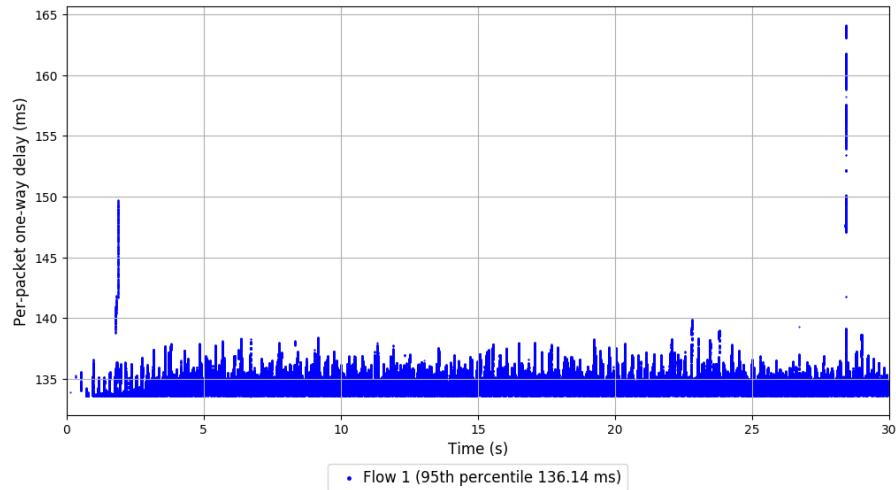
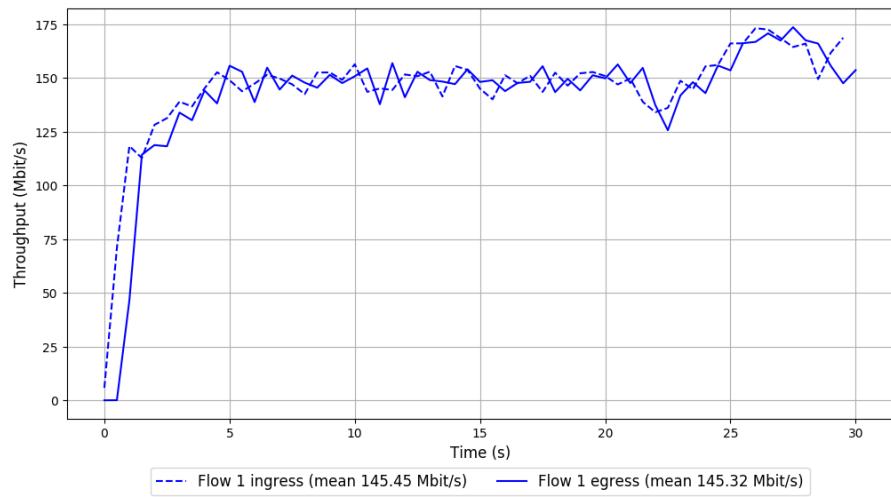


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-22 00:04:12
End at: 2019-01-22 00:04:42
Local clock offset: -4.736 ms
Remote clock offset: -44.415 ms

# Below is generated by plot.py at 2019-01-22 00:39:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 145.32 Mbit/s
95th percentile per-packet one-way delay: 136.144 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 145.32 Mbit/s
95th percentile per-packet one-way delay: 136.144 ms
Loss rate: 0.75%
```

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

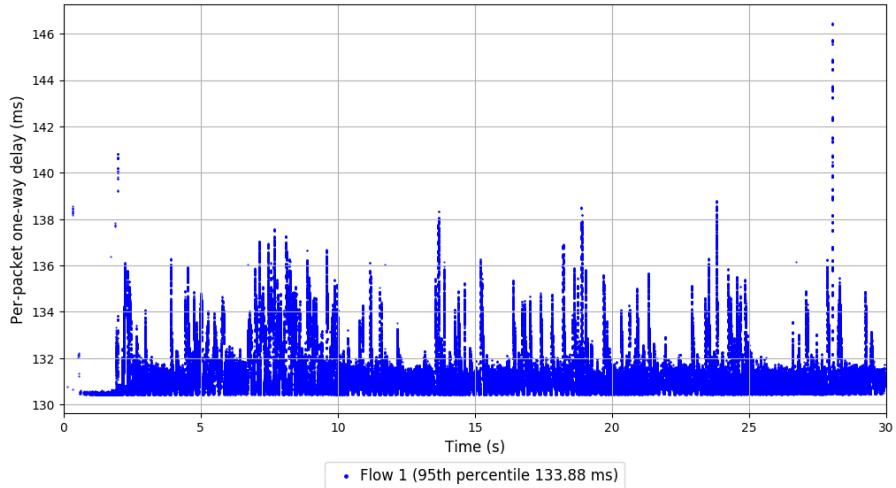
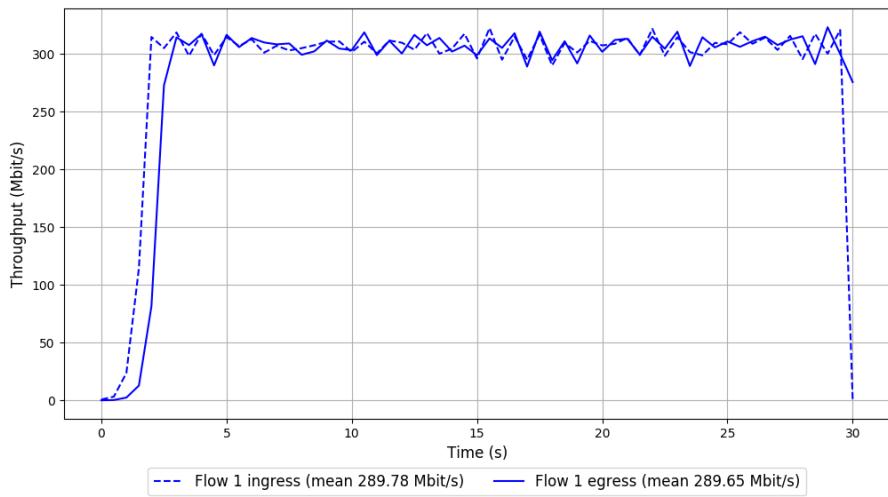


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-21 21:22:19
End at: 2019-01-21 21:22:49
Local clock offset: -1.659 ms
Remote clock offset: -40.768 ms

# Below is generated by plot.py at 2019-01-22 00:39:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 289.65 Mbit/s
95th percentile per-packet one-way delay: 133.883 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 289.65 Mbit/s
95th percentile per-packet one-way delay: 133.883 ms
Loss rate: 0.70%
```

Run 1: Report of TCP Vegas — Data Link

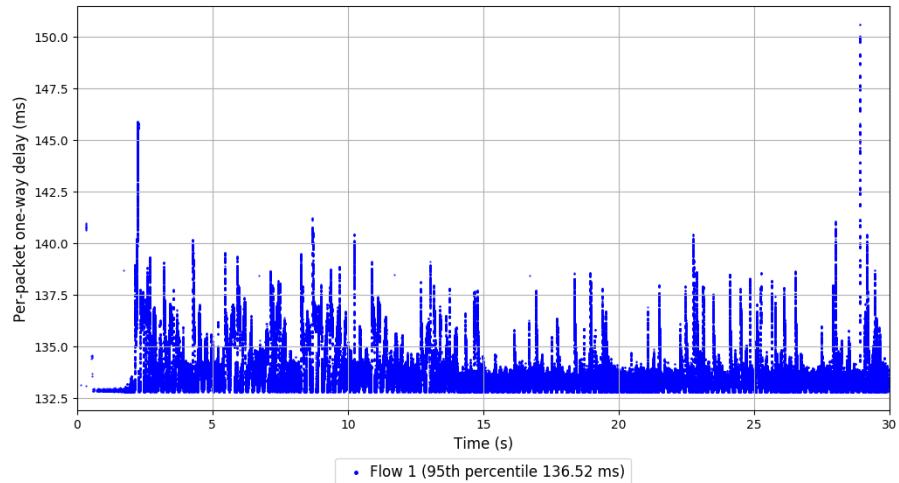
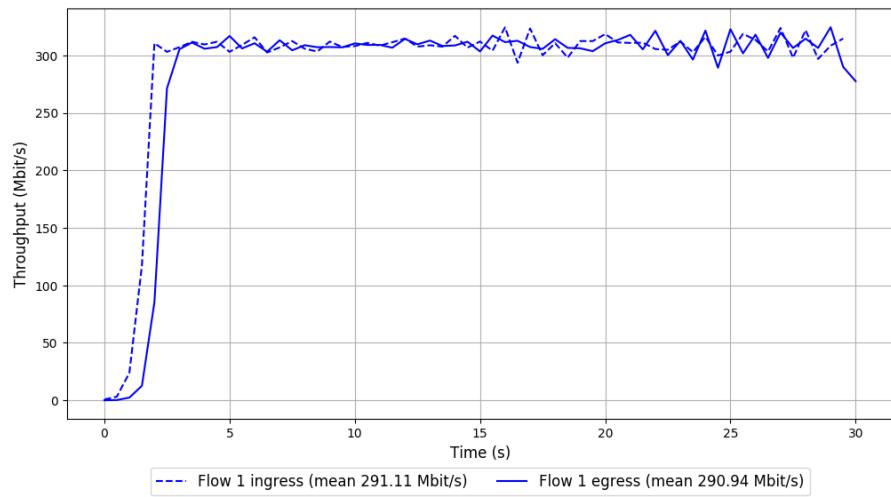


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-21 22:01:01
End at: 2019-01-21 22:01:31
Local clock offset: -1.034 ms
Remote clock offset: -42.106 ms

# Below is generated by plot.py at 2019-01-22 00:39:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 290.94 Mbit/s
95th percentile per-packet one-way delay: 136.524 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 290.94 Mbit/s
95th percentile per-packet one-way delay: 136.524 ms
Loss rate: 0.70%
```

Run 2: Report of TCP Vegas — Data Link

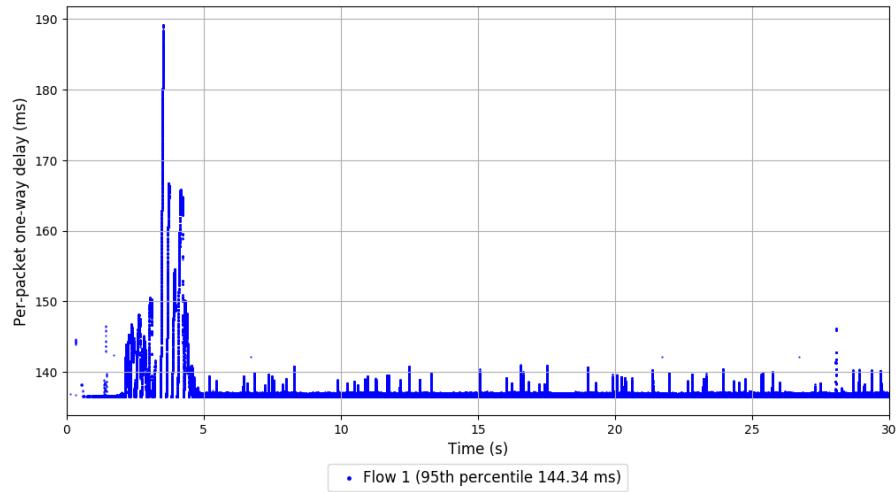
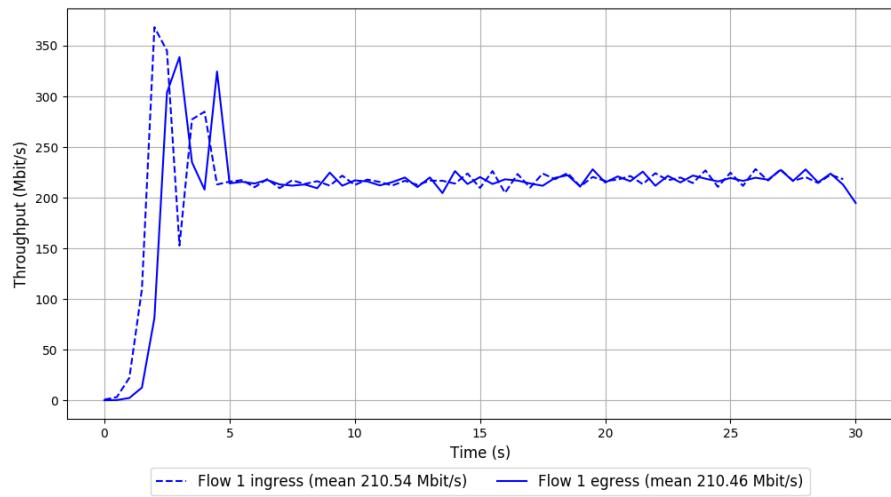


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-21 22:44:16
End at: 2019-01-21 22:44:46
Local clock offset: 0.602 ms
Remote clock offset: -42.43 ms

# Below is generated by plot.py at 2019-01-22 00:39:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.46 Mbit/s
95th percentile per-packet one-way delay: 144.336 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 210.46 Mbit/s
95th percentile per-packet one-way delay: 144.336 ms
Loss rate: 0.68%
```

Run 3: Report of TCP Vegas — Data Link

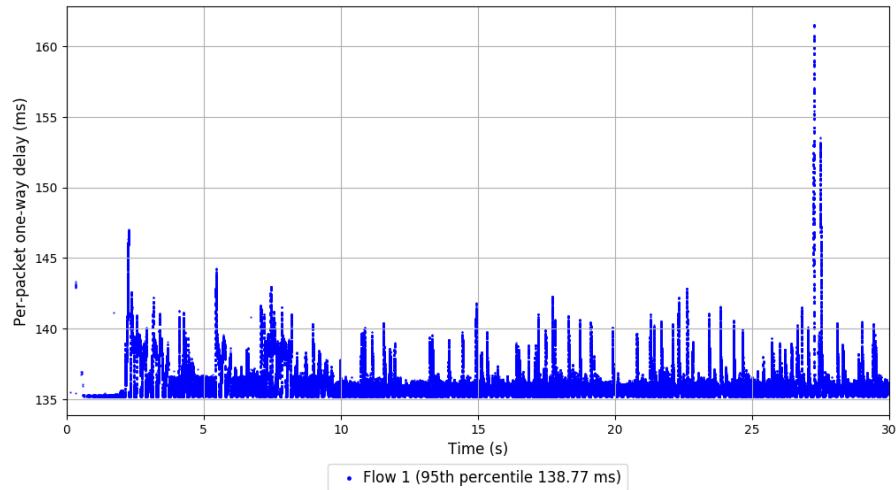
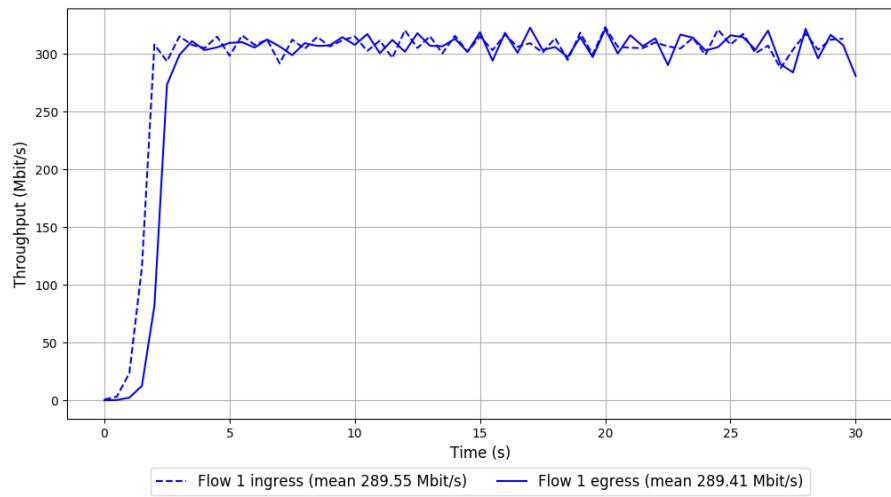


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-21 23:17:48
End at: 2019-01-21 23:18:18
Local clock offset: 1.221 ms
Remote clock offset: -40.402 ms

# Below is generated by plot.py at 2019-01-22 00:42:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 289.41 Mbit/s
95th percentile per-packet one-way delay: 138.770 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 289.41 Mbit/s
95th percentile per-packet one-way delay: 138.770 ms
Loss rate: 0.70%
```

Run 4: Report of TCP Vegas — Data Link

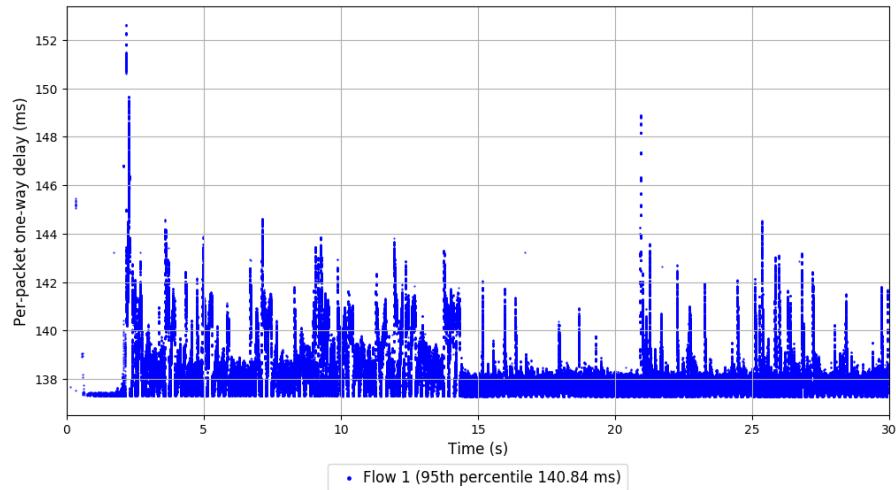
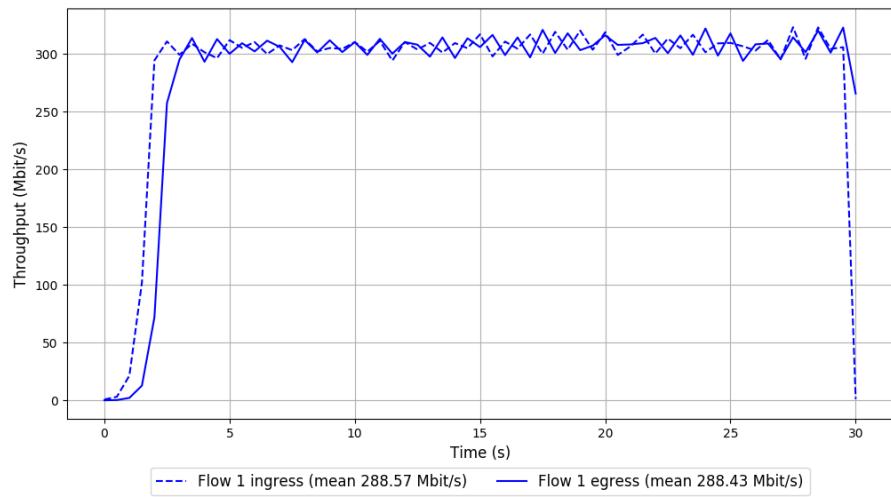


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-21 23:46:12
End at: 2019-01-21 23:46:43
Local clock offset: -1.14 ms
Remote clock offset: -44.204 ms

# Below is generated by plot.py at 2019-01-22 00:42:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 288.43 Mbit/s
95th percentile per-packet one-way delay: 140.842 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 288.43 Mbit/s
95th percentile per-packet one-way delay: 140.842 ms
Loss rate: 0.70%
```

Run 5: Report of TCP Vegas — Data Link

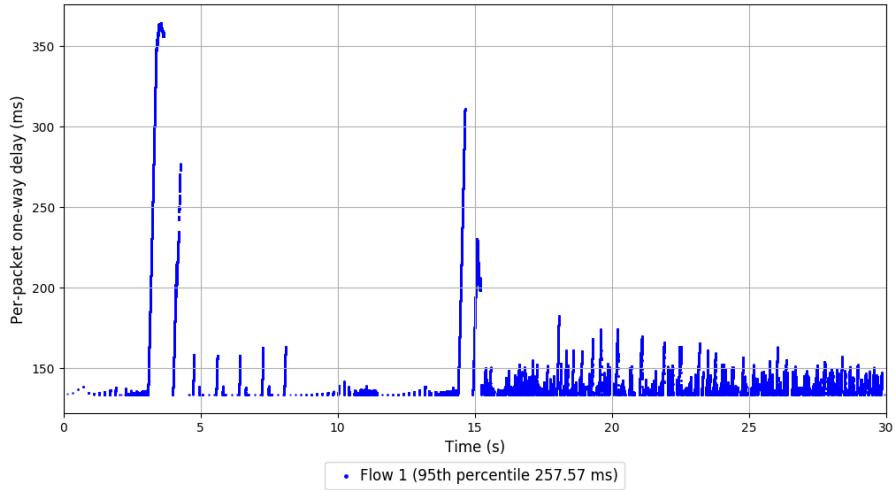
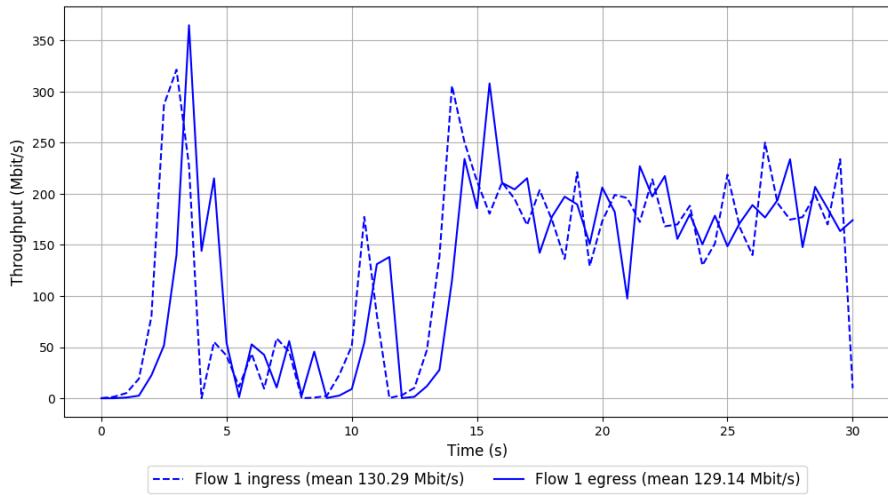


Run 1: Statistics of Verus

```
Start at: 2019-01-21 21:38:16
End at: 2019-01-21 21:38:46
Local clock offset: 0.742 ms
Remote clock offset: -41.076 ms

# Below is generated by plot.py at 2019-01-22 00:42:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 129.14 Mbit/s
95th percentile per-packet one-way delay: 257.573 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 129.14 Mbit/s
95th percentile per-packet one-way delay: 257.573 ms
Loss rate: 1.61%
```

Run 1: Report of Verus — Data Link

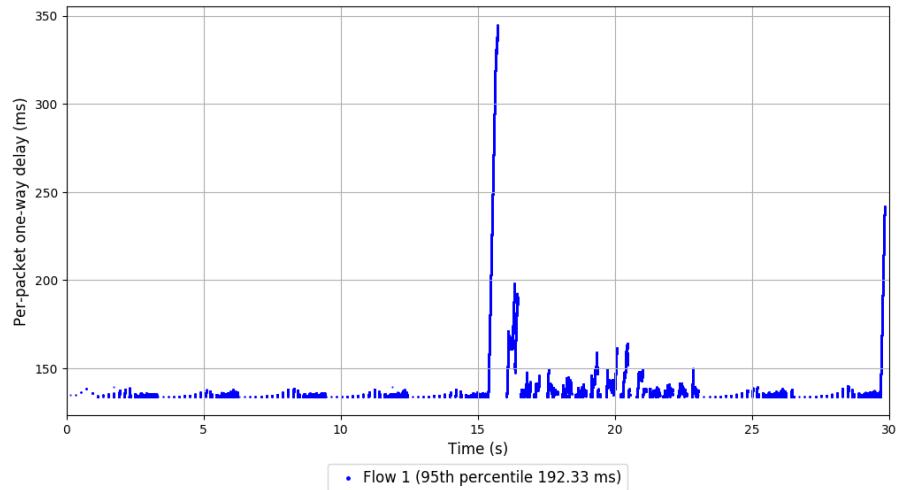
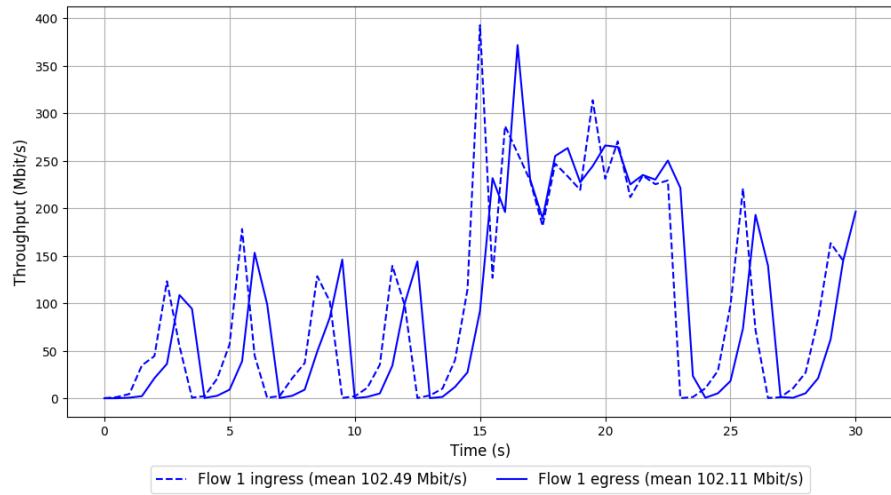


Run 2: Statistics of Verus

```
Start at: 2019-01-21 22:16:27
End at: 2019-01-21 22:16:57
Local clock offset: 1.087 ms
Remote clock offset: -40.552 ms

# Below is generated by plot.py at 2019-01-22 00:42:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 102.11 Mbit/s
95th percentile per-packet one-way delay: 192.332 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 102.11 Mbit/s
95th percentile per-packet one-way delay: 192.332 ms
Loss rate: 0.01%
```

Run 2: Report of Verus — Data Link

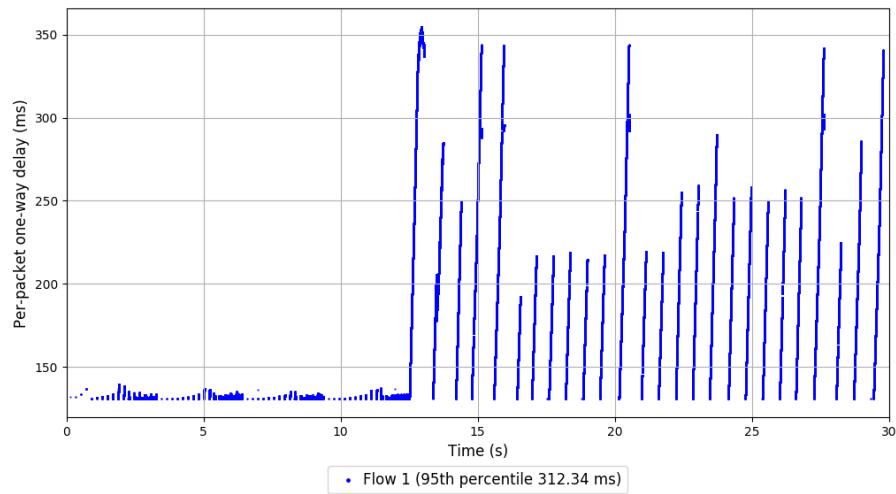
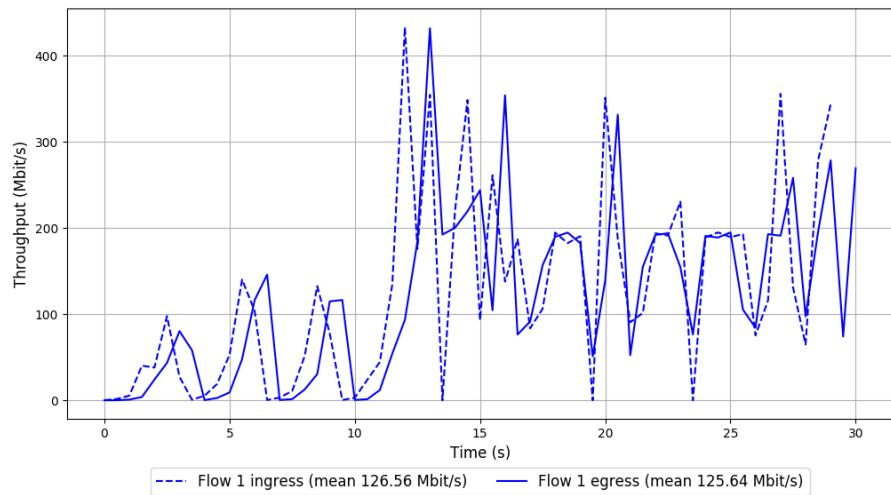


Run 3: Statistics of Verus

```
Start at: 2019-01-21 22:59:36
End at: 2019-01-21 23:00:06
Local clock offset: -1.413 ms
Remote clock offset: -39.587 ms

# Below is generated by plot.py at 2019-01-22 00:42:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 125.64 Mbit/s
95th percentile per-packet one-way delay: 312.342 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 125.64 Mbit/s
95th percentile per-packet one-way delay: 312.342 ms
Loss rate: 0.02%
```

Run 3: Report of Verus — Data Link

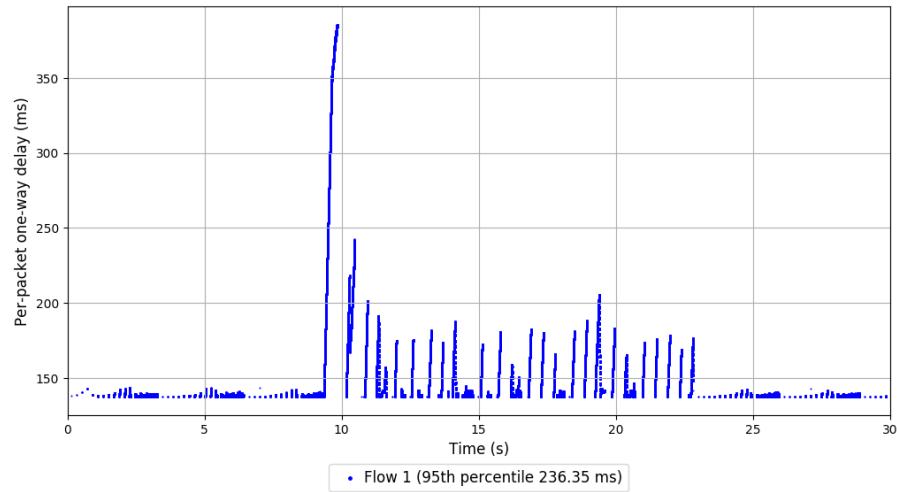
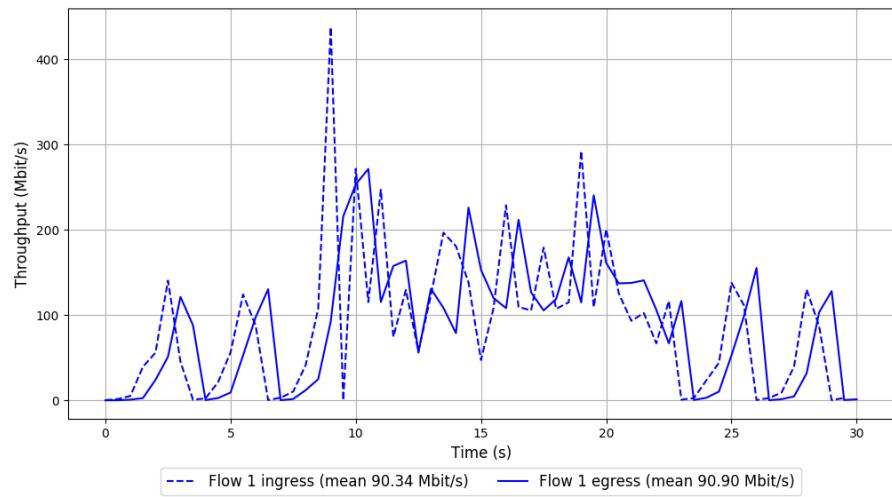


Run 4: Statistics of Verus

```
Start at: 2019-01-21 23:27:39
End at: 2019-01-21 23:28:09
Local clock offset: 0.574 ms
Remote clock offset: -43.129 ms

# Below is generated by plot.py at 2019-01-22 00:42:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.90 Mbit/s
95th percentile per-packet one-way delay: 236.352 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 90.90 Mbit/s
95th percentile per-packet one-way delay: 236.352 ms
Loss rate: 0.03%
```

Run 4: Report of Verus — Data Link

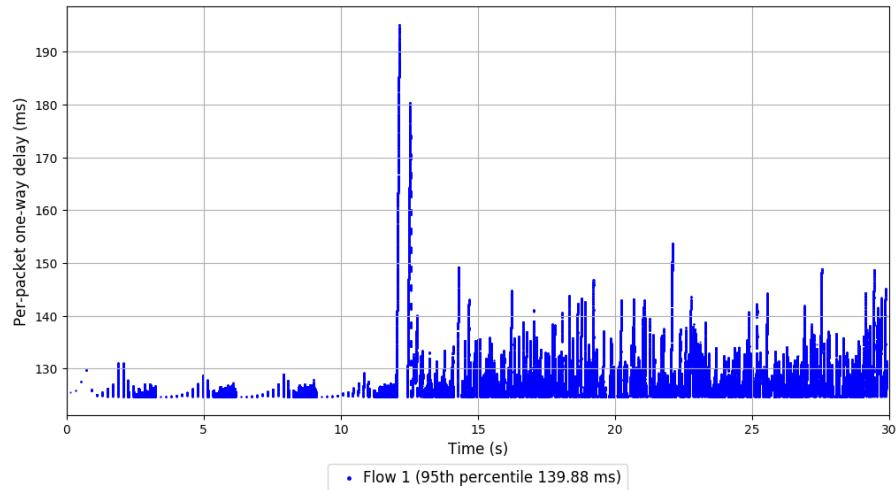
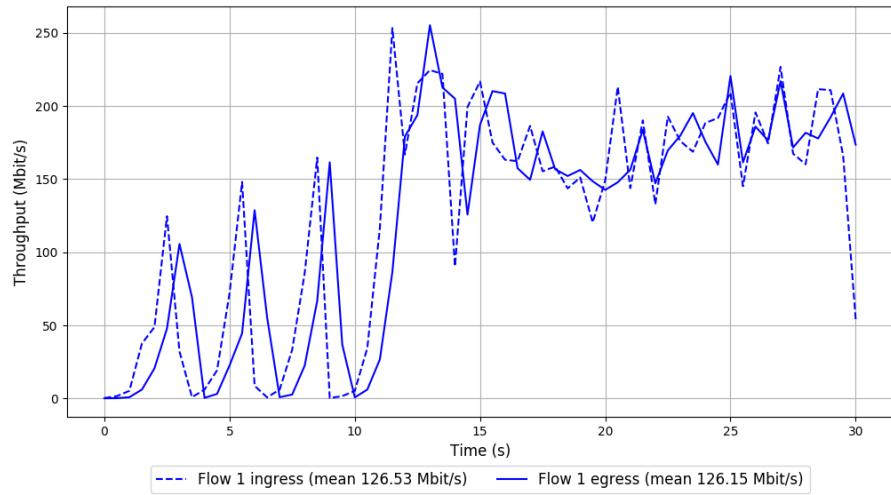


Run 5: Statistics of Verus

```
Start at: 2019-01-22 00:01:42
End at: 2019-01-22 00:02:12
Local clock offset: 0.073 ms
Remote clock offset: -32.372 ms

# Below is generated by plot.py at 2019-01-22 00:42:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 126.15 Mbit/s
95th percentile per-packet one-way delay: 139.881 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 126.15 Mbit/s
95th percentile per-packet one-way delay: 139.881 ms
Loss rate: 1.37%
```

Run 5: Report of Verus — Data Link

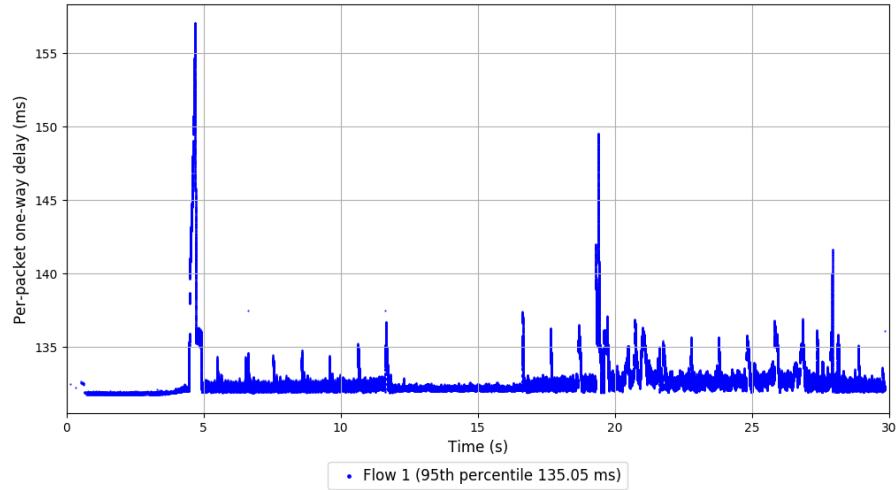
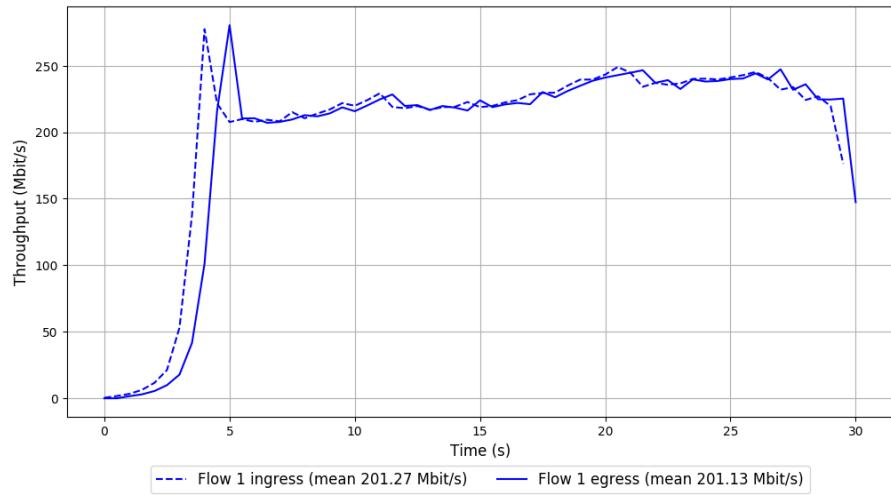


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-21 21:34:01
End at: 2019-01-21 21:34:31
Local clock offset: -0.07 ms
Remote clock offset: -41.94 ms

# Below is generated by plot.py at 2019-01-22 00:42:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.13 Mbit/s
95th percentile per-packet one-way delay: 135.050 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 201.13 Mbit/s
95th percentile per-packet one-way delay: 135.050 ms
Loss rate: 0.71%
```

Run 1: Report of PCC-Vivace — Data Link

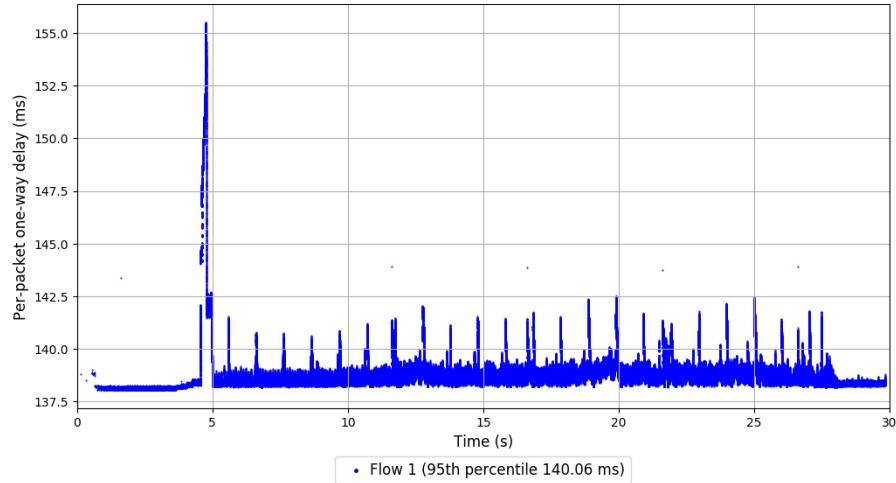
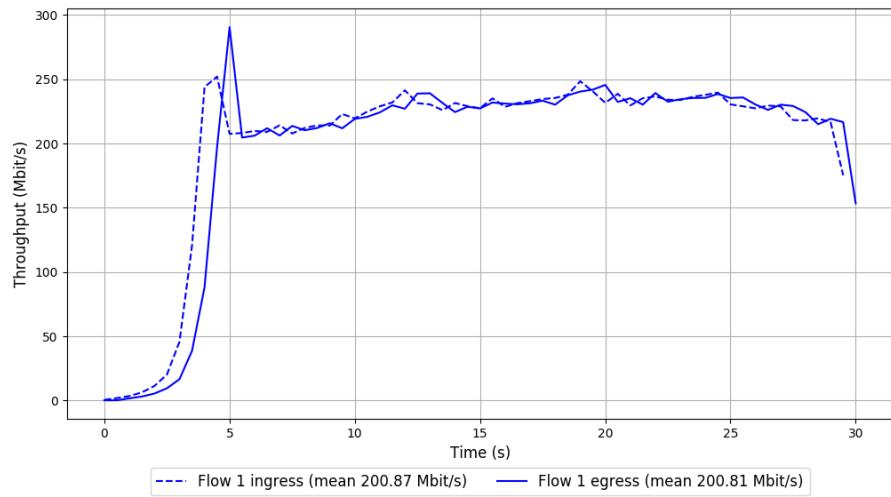


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-21 22:06:38
End at: 2019-01-21 22:07:08
Local clock offset: 0.642 ms
Remote clock offset: -45.753 ms

# Below is generated by plot.py at 2019-01-22 00:42:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.81 Mbit/s
95th percentile per-packet one-way delay: 140.057 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 200.81 Mbit/s
95th percentile per-packet one-way delay: 140.057 ms
Loss rate: 0.69%
```

Run 2: Report of PCC-Vivace — Data Link

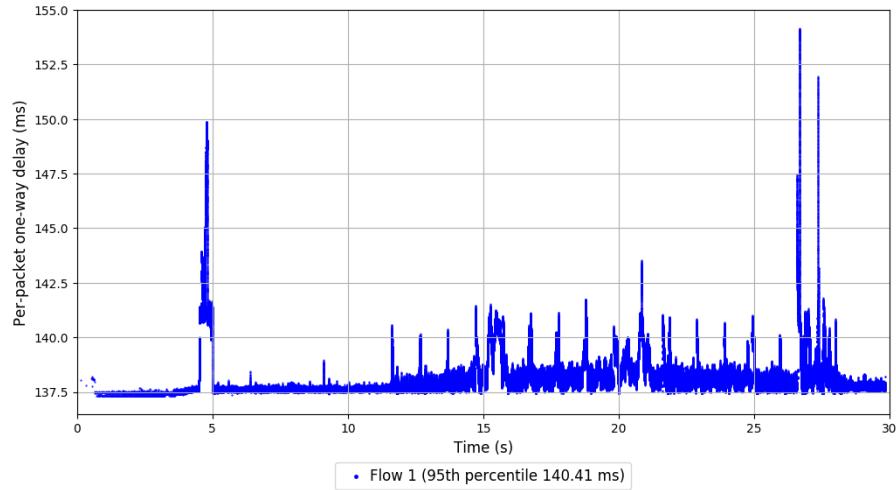
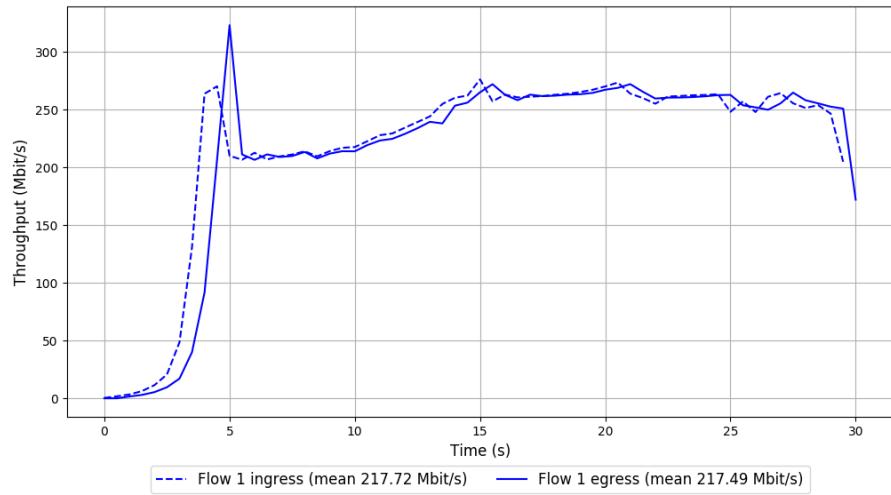


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-21 22:49:50
End at: 2019-01-21 22:50:20
Local clock offset: -1.391 ms
Remote clock offset: -45.727 ms

# Below is generated by plot.py at 2019-01-22 00:42:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.49 Mbit/s
95th percentile per-packet one-way delay: 140.406 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 217.49 Mbit/s
95th percentile per-packet one-way delay: 140.406 ms
Loss rate: 0.76%
```

Run 3: Report of PCC-Vivace — Data Link

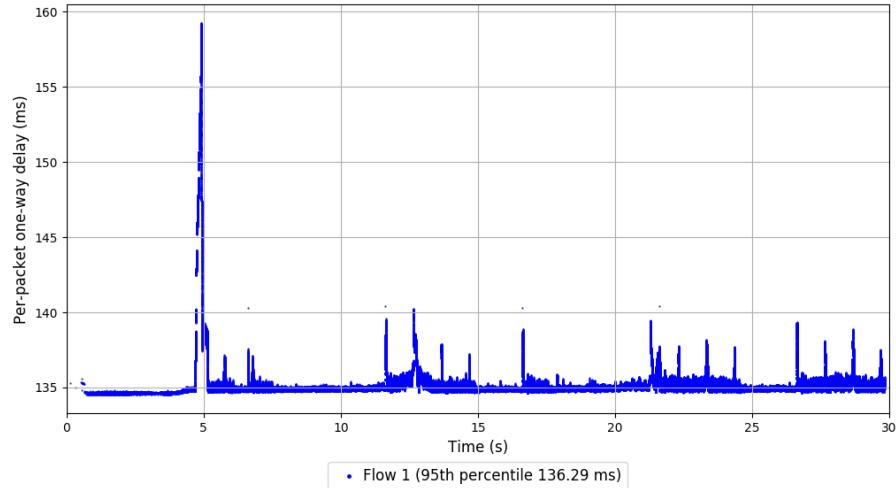
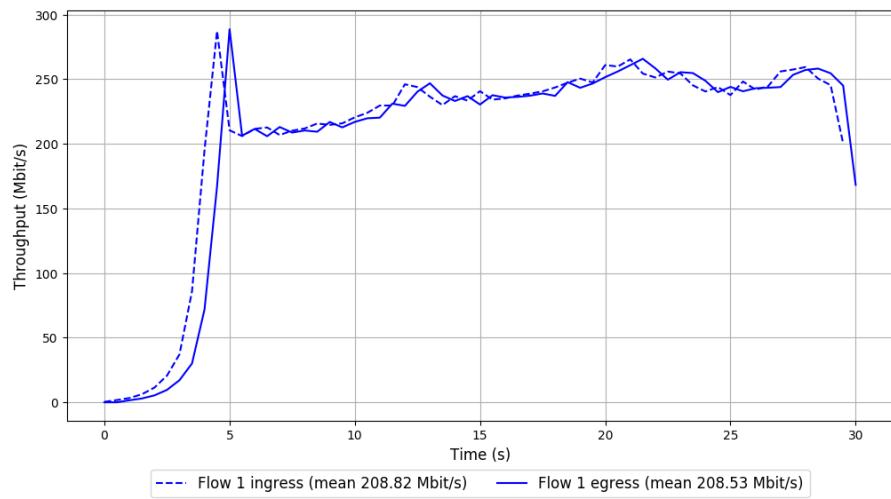


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-21 23:23:25
End at: 2019-01-21 23:23:55
Local clock offset: 2.233 ms
Remote clock offset: -38.568 ms

# Below is generated by plot.py at 2019-01-22 00:42:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.53 Mbit/s
95th percentile per-packet one-way delay: 136.288 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 208.53 Mbit/s
95th percentile per-packet one-way delay: 136.288 ms
Loss rate: 0.80%
```

Run 4: Report of PCC-Vivace — Data Link

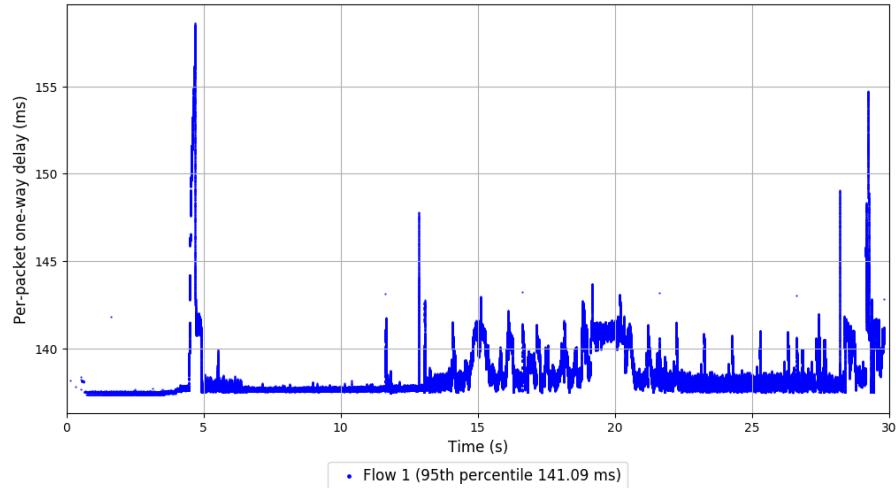
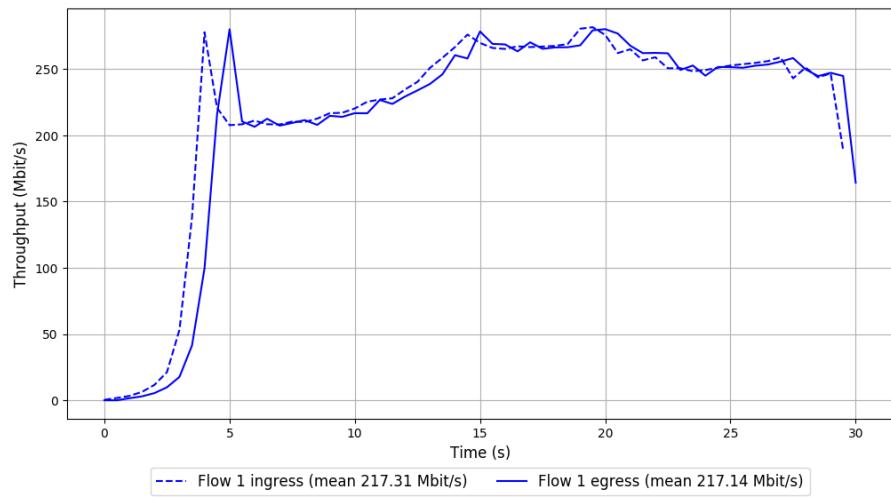


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-21 23:51:45
End at: 2019-01-21 23:52:15
Local clock offset: -0.241 ms
Remote clock offset: -45.401 ms

# Below is generated by plot.py at 2019-01-22 00:42:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.14 Mbit/s
95th percentile per-packet one-way delay: 141.093 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 217.14 Mbit/s
95th percentile per-packet one-way delay: 141.093 ms
Loss rate: 0.73%
```

Run 5: Report of PCC-Vivace — Data Link

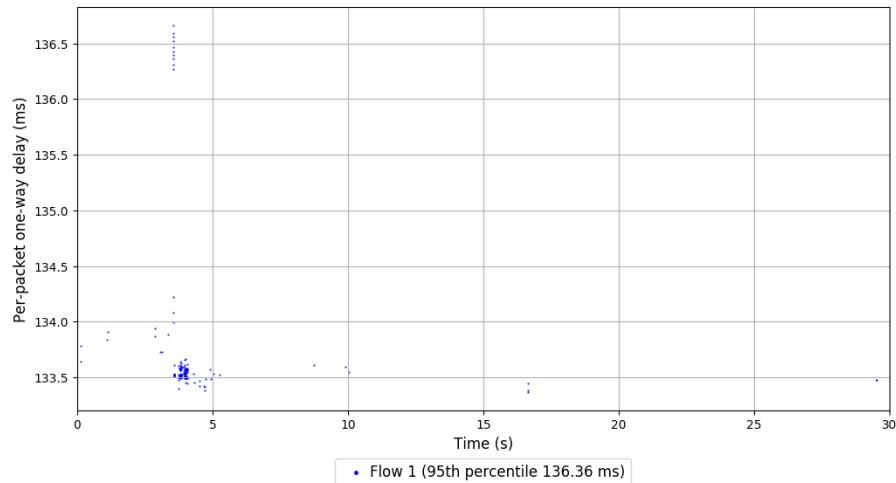
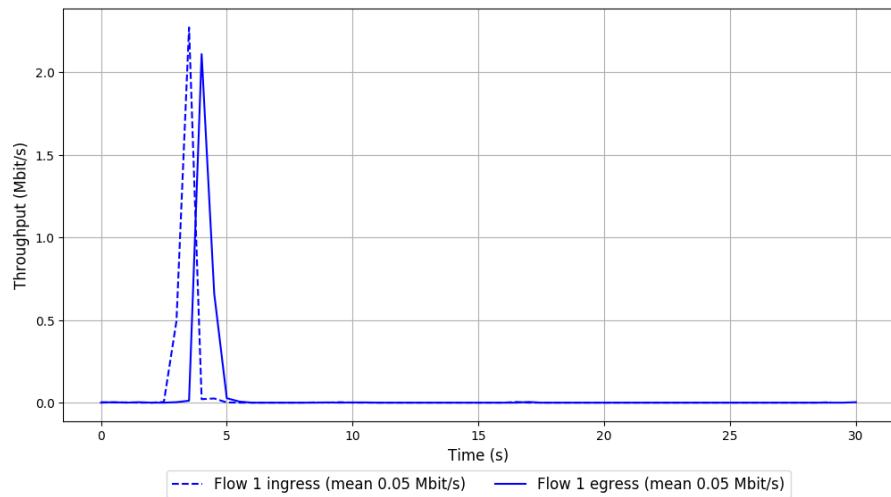


Run 1: Statistics of WebRTC media

```
Start at: 2019-01-21 21:42:08
End at: 2019-01-21 21:42:38
Local clock offset: -0.141 ms
Remote clock offset: -41.912 ms

# Below is generated by plot.py at 2019-01-22 00:42:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.361 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.361 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

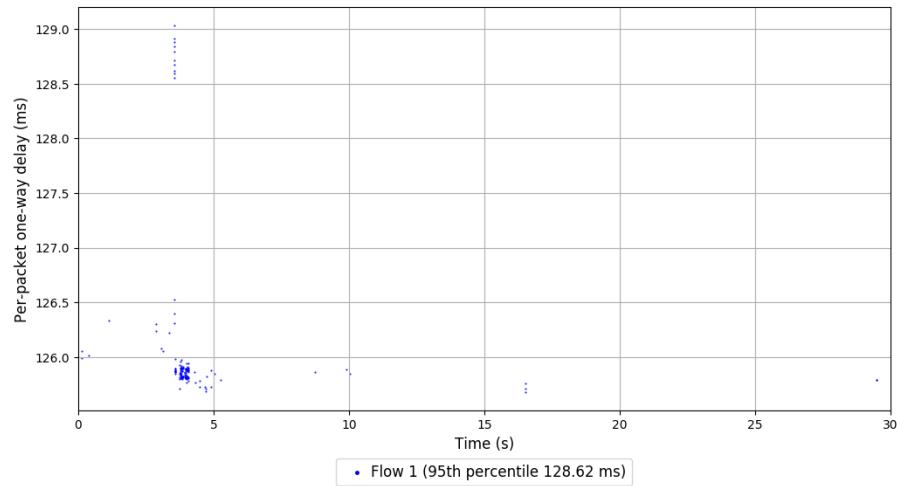
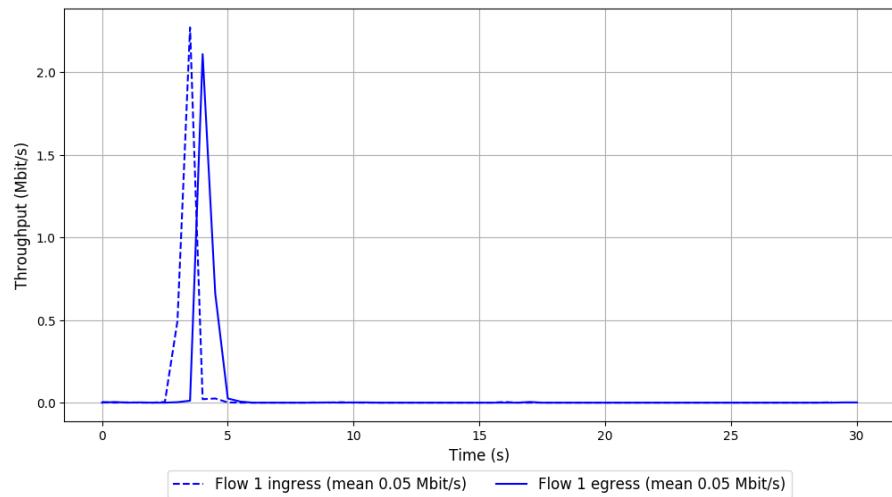


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-21 22:20:18
End at: 2019-01-21 22:20:48
Local clock offset: 0.411 ms
Remote clock offset: -34.531 ms

# Below is generated by plot.py at 2019-01-22 00:42:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 128.618 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 128.618 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

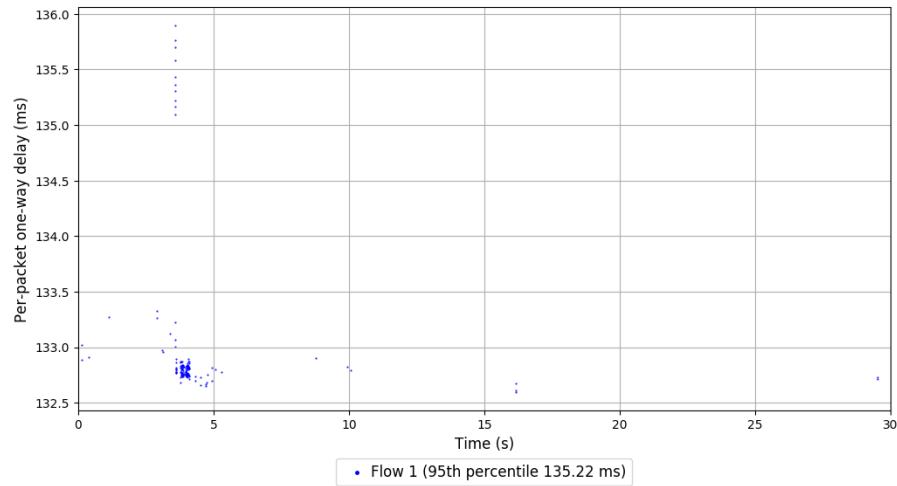
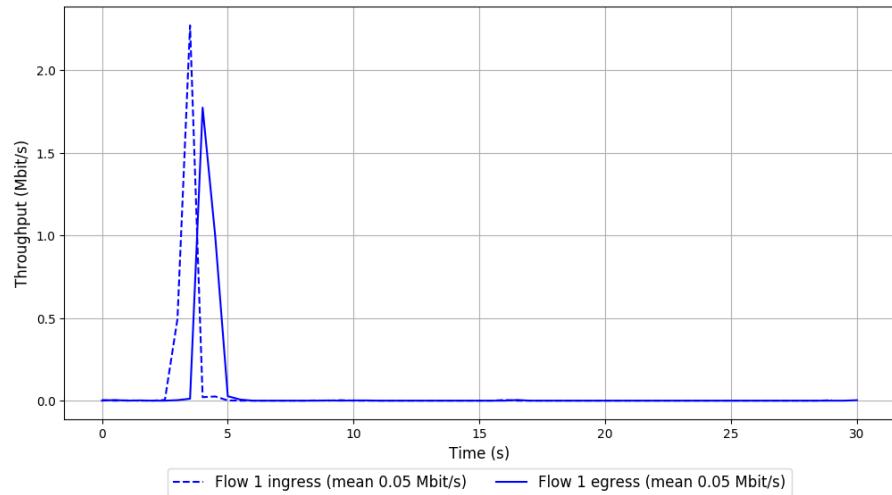


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-21 23:03:39
End at: 2019-01-21 23:04:09
Local clock offset: -0.458 ms
Remote clock offset: -42.032 ms

# Below is generated by plot.py at 2019-01-22 00:42:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 135.223 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 135.223 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

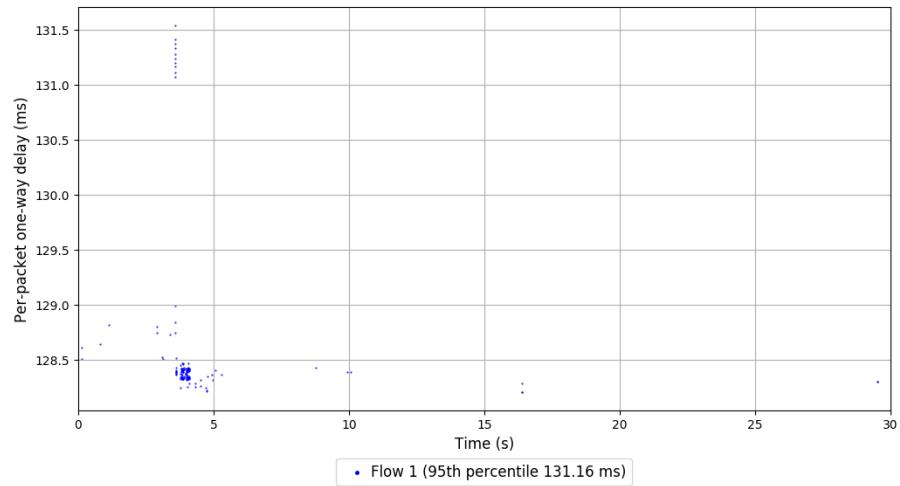
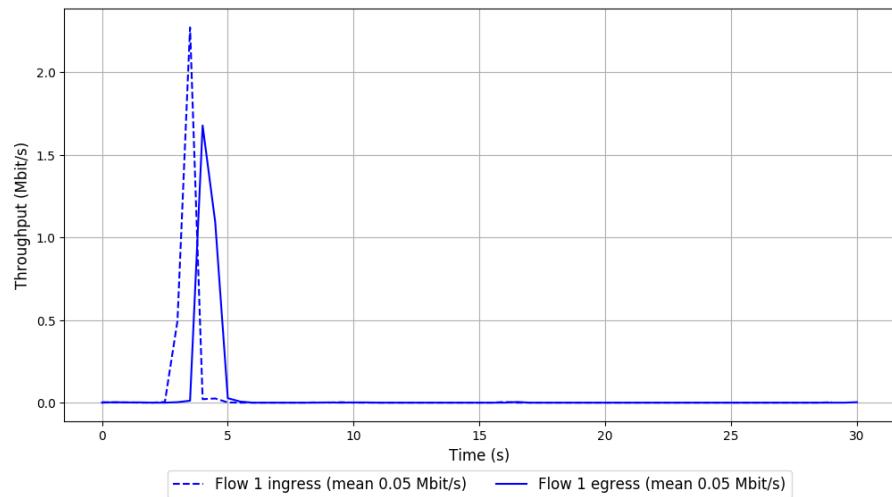


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-21 23:31:50
End at: 2019-01-21 23:32:20
Local clock offset: 1.53 ms
Remote clock offset: -32.707 ms

# Below is generated by plot.py at 2019-01-22 00:42:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 131.161 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 131.161 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-22 00:05:35
End at: 2019-01-22 00:06:05
Local clock offset: 0.389 ms
Remote clock offset: -38.665 ms

# Below is generated by plot.py at 2019-01-22 00:42:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 134.146 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 134.146 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

