

Pantheon Report

Generated at 2019-06-27 15:30:01 (UTC).
Data path: GCE London on `ens4` (*remote*) → GCE Sydney on `ens4` (*local*).
Repeated the test of 22 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

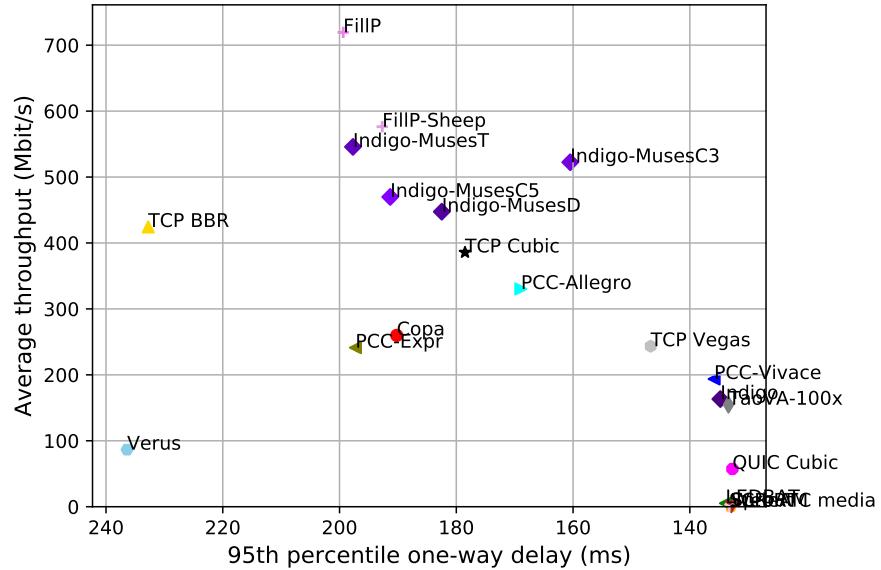
```
Linux 4.15.0-1032-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

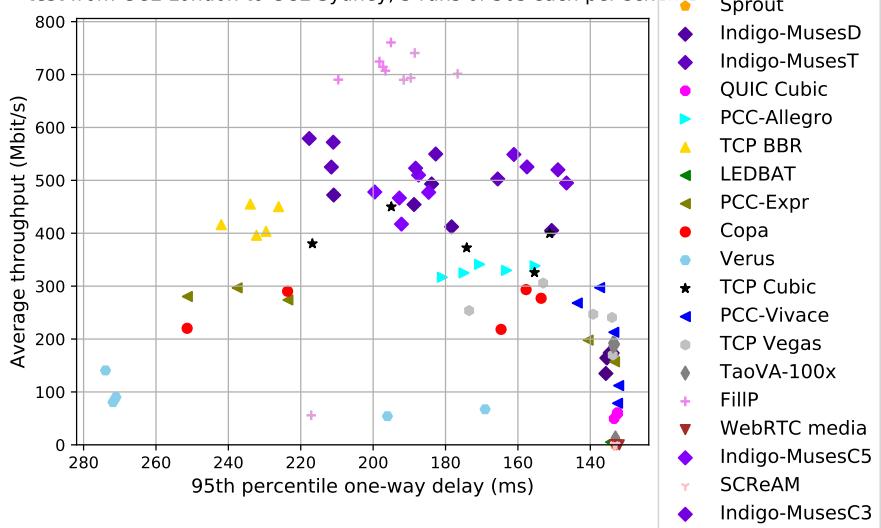
```
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 11c9498ecb1596b02ccd896791a02d03172af7ed
M helpers/_init_.pyc
M helpers/context.py
M helpers/utils.py
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
```

```
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



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



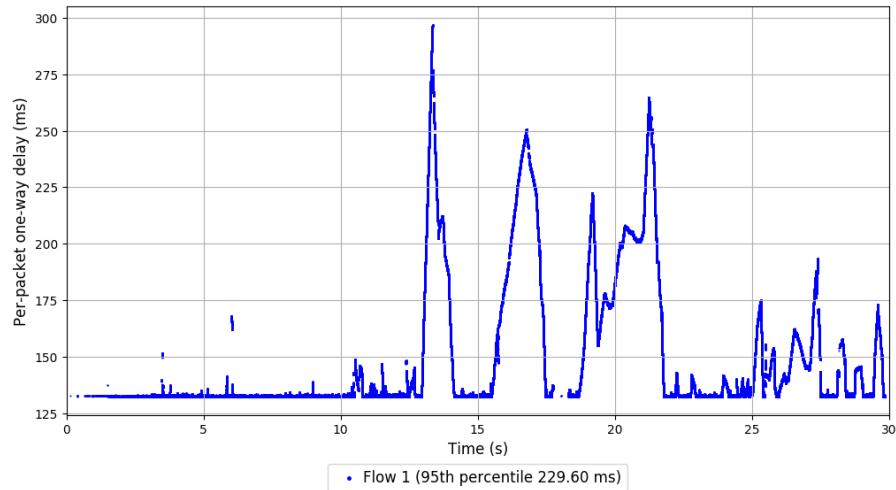
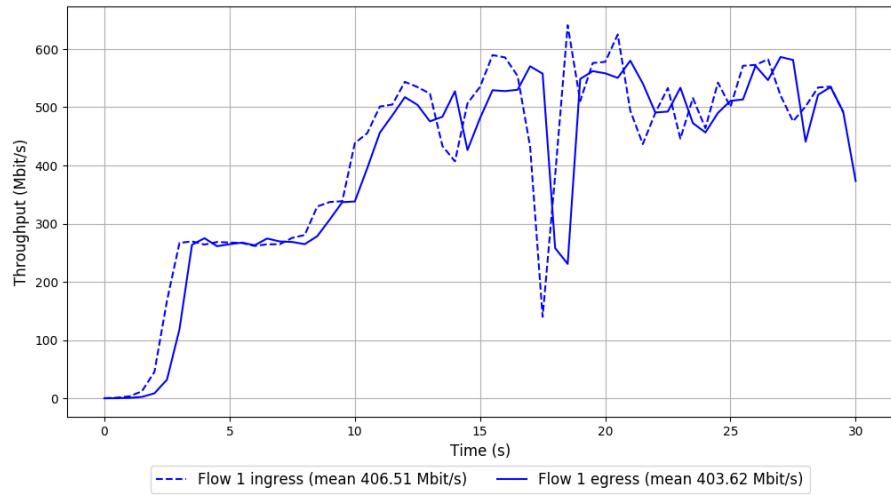
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	424.32	232.77	1.63
Copa	5	259.86	190.20	1.07
TCP Cubic	5	385.67	178.51	1.12
FillP	5	719.44	199.37	3.15
FillP-Sheep	5	576.32	192.69	2.10
Indigo	5	163.31	134.77	0.87
Indigo-MusesC3	5	522.46	160.48	1.06
Indigo-MusesC5	5	469.81	191.32	1.01
Indigo-MusesD	5	447.42	182.49	1.18
Indigo-MusesT	5	545.72	197.70	1.39
LEDBAT	5	5.23	133.90	1.78
Muses_DecisionTree	0	N/A	N/A	N/A
PCC-Allegro	5	330.22	168.93	2.06
PCC-Expr	5	241.21	197.28	3.16
QUIC Cubic	5	57.35	132.71	1.27
SCReAM	5	0.15	133.26	0.83
Sprout	5	0.67	132.98	1.04
TaoVA-100x	5	154.71	133.38	0.96
TCP Vegas	5	243.41	146.71	0.78
Verus	5	86.57	236.40	2.21
PCC-Vivace	5	193.75	135.84	1.56
WebRTC media	4	0.05	132.89	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-06-27 11:20:17
End at: 2019-06-27 11:20:47
Local clock offset: -0.108 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-06-27 14:11:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 403.62 Mbit/s
95th percentile per-packet one-way delay: 229.601 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 403.62 Mbit/s
95th percentile per-packet one-way delay: 229.601 ms
Loss rate: 1.59%
```

Run 1: Report of TCP BBR — Data Link

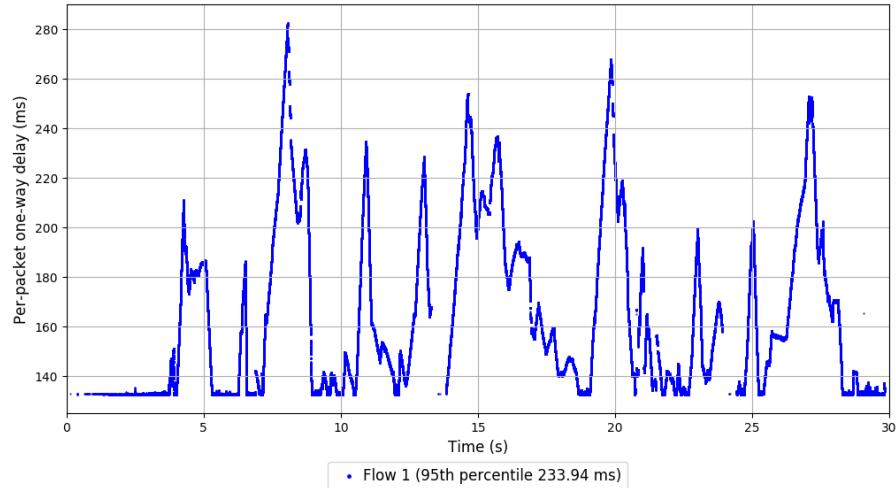
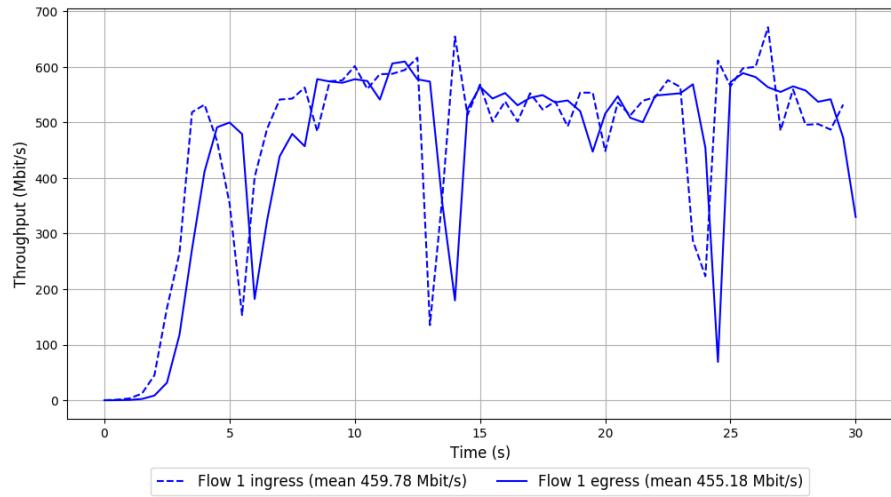


Run 2: Statistics of TCP BBR

```
Start at: 2019-06-27 11:52:39
End at: 2019-06-27 11:53:09
Local clock offset: -0.242 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-06-27 14:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 455.18 Mbit/s
95th percentile per-packet one-way delay: 233.939 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 455.18 Mbit/s
95th percentile per-packet one-way delay: 233.939 ms
Loss rate: 1.88%
```

Run 2: Report of TCP BBR — Data Link

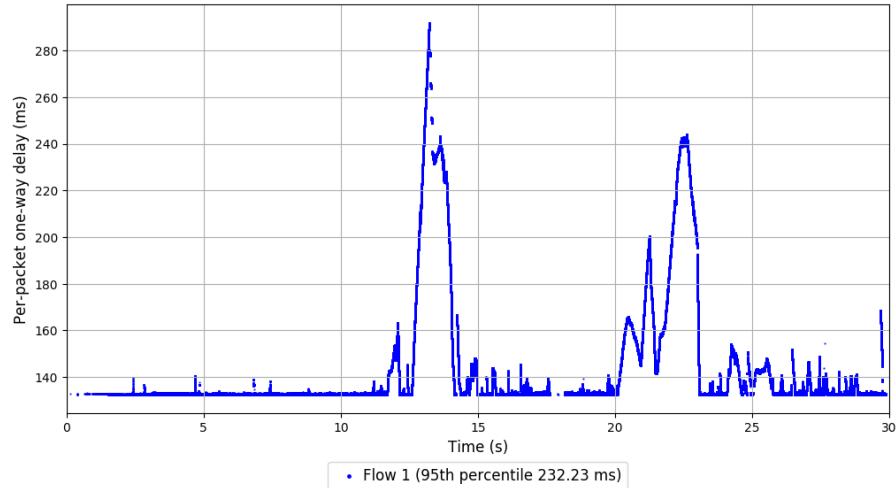
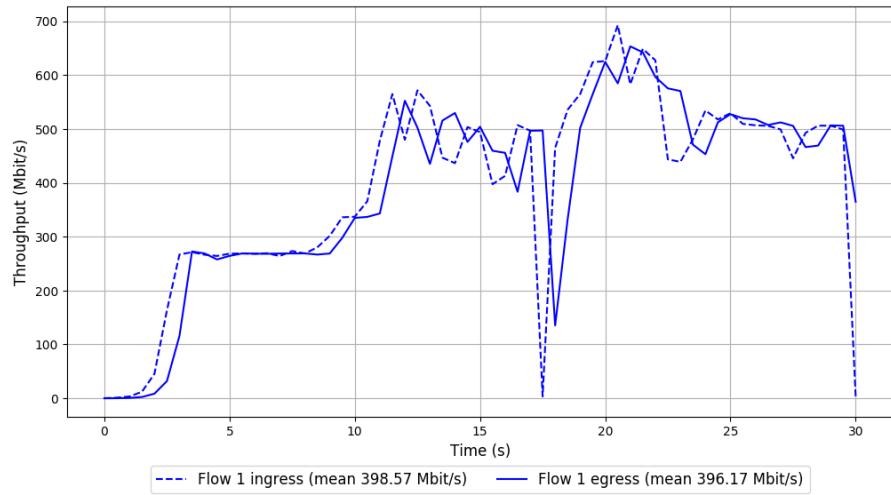


Run 3: Statistics of TCP BBR

```
Start at: 2019-06-27 12:24:39
End at: 2019-06-27 12:25:09
Local clock offset: -0.284 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-06-27 14:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 396.17 Mbit/s
95th percentile per-packet one-way delay: 232.230 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 396.17 Mbit/s
95th percentile per-packet one-way delay: 232.230 ms
Loss rate: 1.49%
```

Run 3: Report of TCP BBR — Data Link

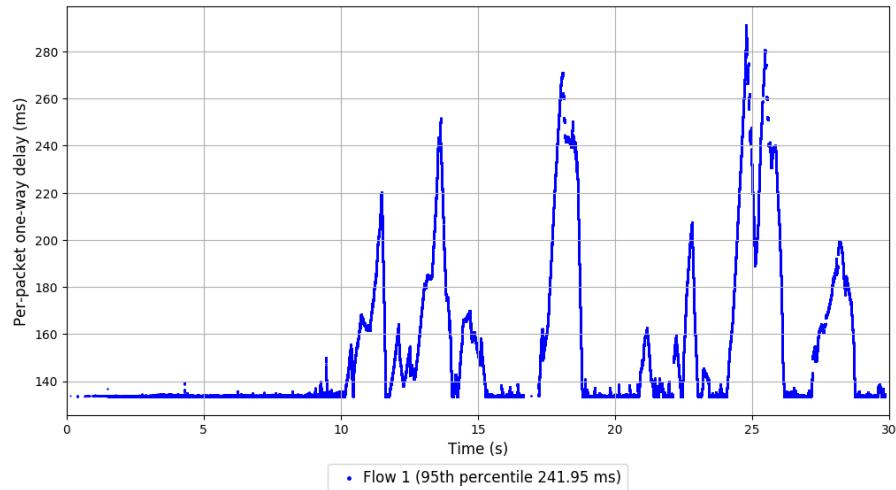
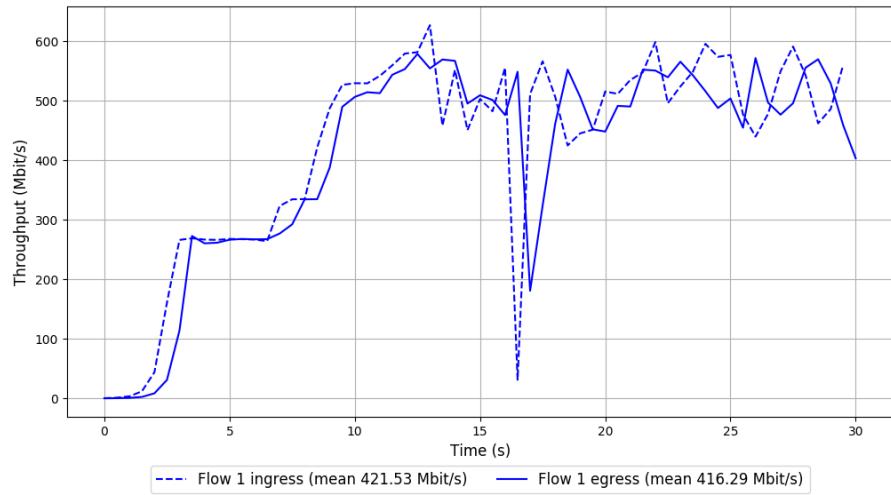


Run 4: Statistics of TCP BBR

```
Start at: 2019-06-27 12:56:53
End at: 2019-06-27 12:57:23
Local clock offset: 0.406 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-06-27 14:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 416.29 Mbit/s
95th percentile per-packet one-way delay: 241.950 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 416.29 Mbit/s
95th percentile per-packet one-way delay: 241.950 ms
Loss rate: 2.12%
```

Run 4: Report of TCP BBR — Data Link

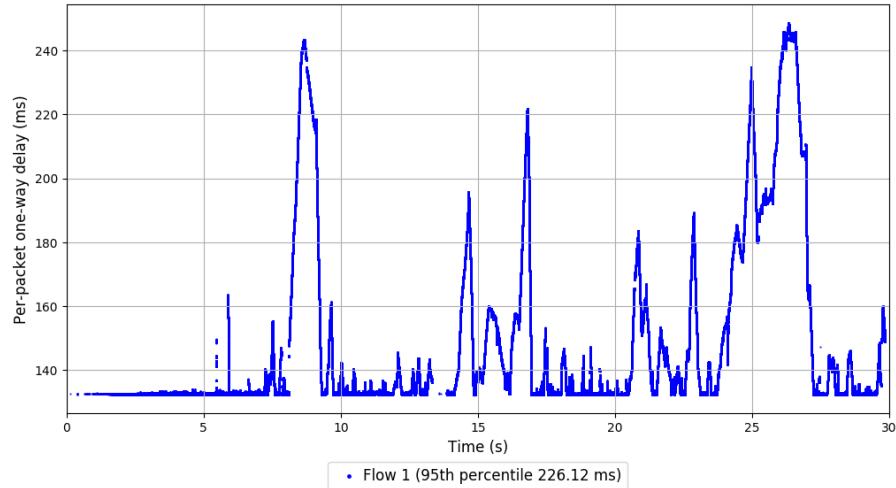
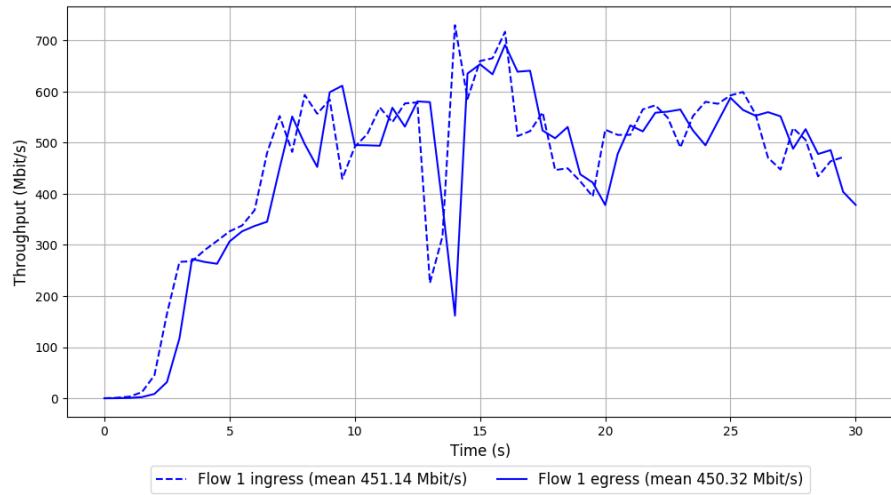


Run 5: Statistics of TCP BBR

```
Start at: 2019-06-27 13:29:17
End at: 2019-06-27 13:29:47
Local clock offset: 0.005 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-06-27 14:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 450.32 Mbit/s
95th percentile per-packet one-way delay: 226.124 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 450.32 Mbit/s
95th percentile per-packet one-way delay: 226.124 ms
Loss rate: 1.07%
```

Run 5: Report of TCP BBR — Data Link

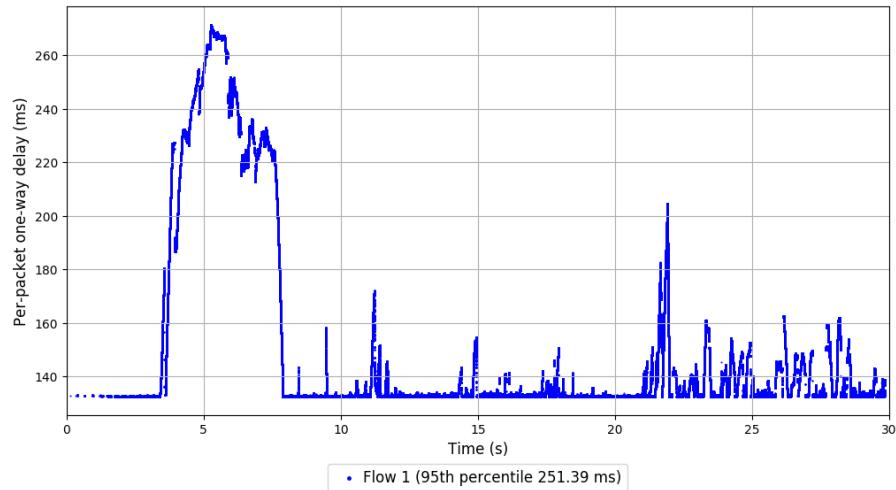
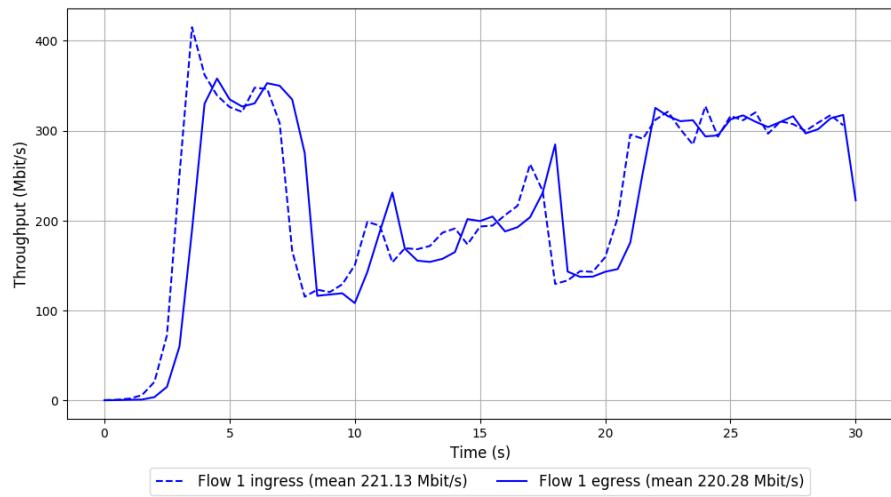


Run 1: Statistics of Copa

```
Start at: 2019-06-27 11:13:47
End at: 2019-06-27 11:14:17
Local clock offset: -0.303 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-06-27 14:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.28 Mbit/s
95th percentile per-packet one-way delay: 251.388 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 220.28 Mbit/s
95th percentile per-packet one-way delay: 251.388 ms
Loss rate: 1.27%
```

Run 1: Report of Copa — Data Link

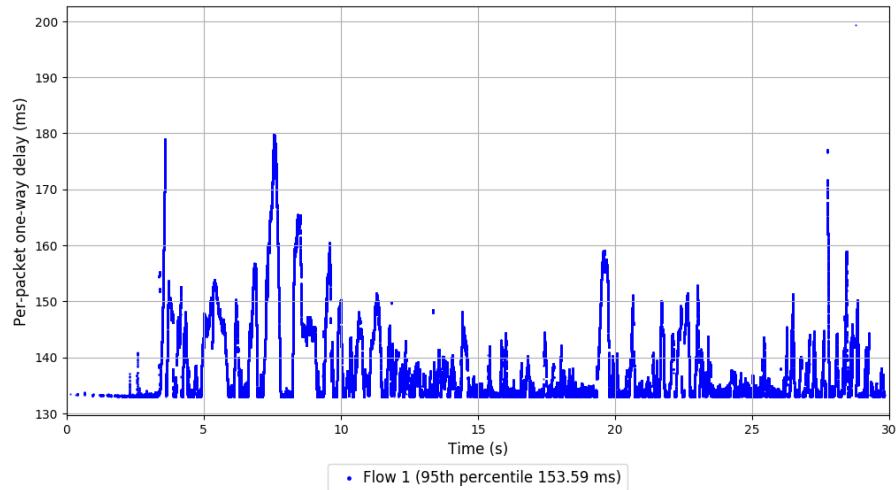
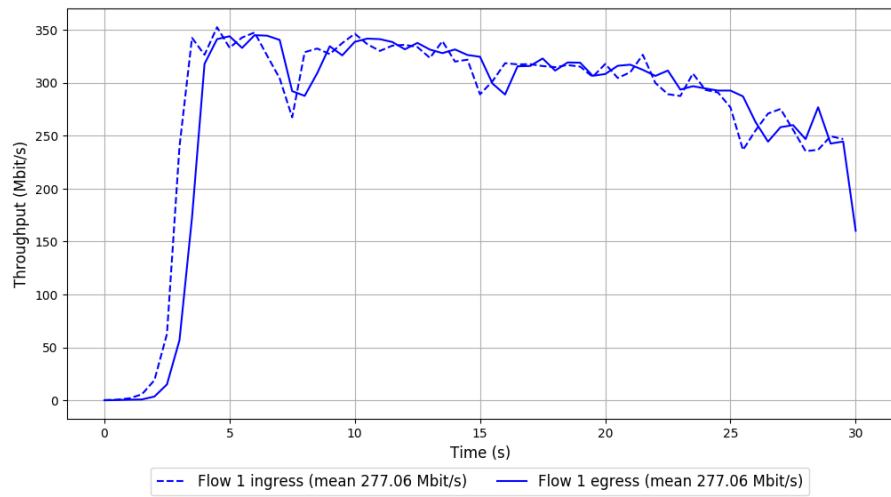


Run 2: Statistics of Copa

```
Start at: 2019-06-27 11:46:11
End at: 2019-06-27 11:46:41
Local clock offset: 0.363 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-06-27 14:13:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 277.06 Mbit/s
95th percentile per-packet one-way delay: 153.588 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 277.06 Mbit/s
95th percentile per-packet one-way delay: 153.588 ms
Loss rate: 0.84%
```

Run 2: Report of Copa — Data Link

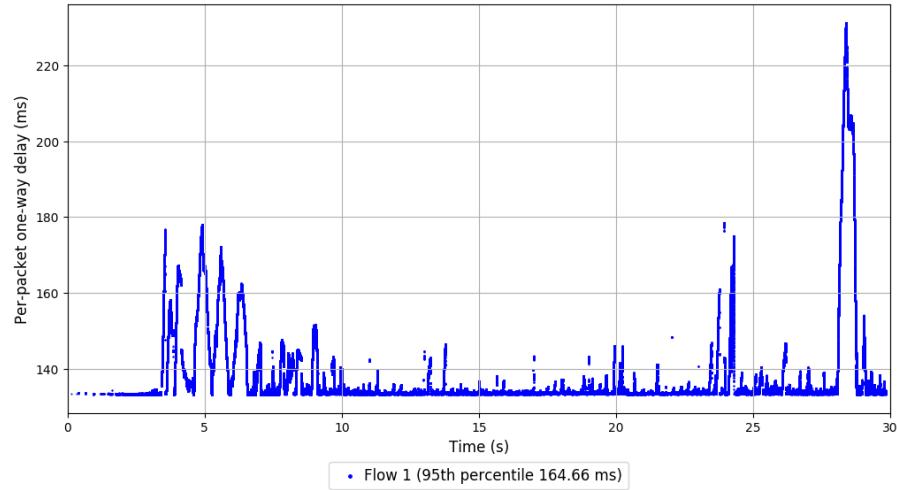
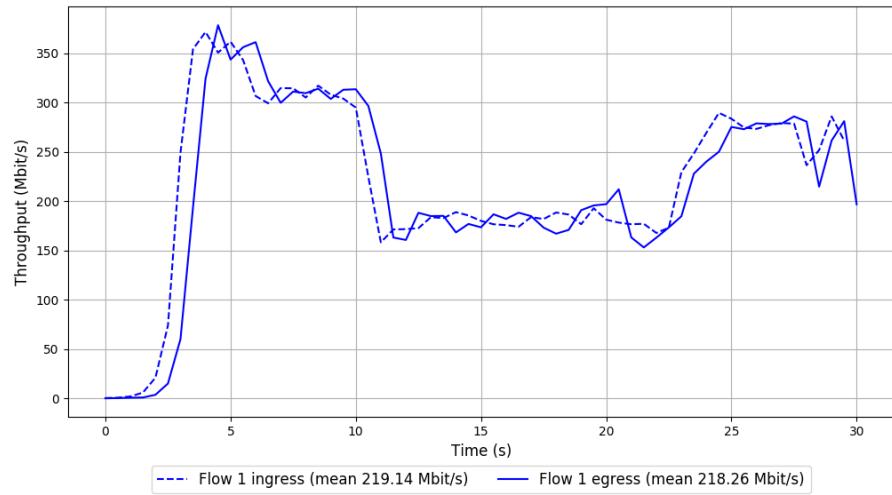


Run 3: Statistics of Copa

```
Start at: 2019-06-27 12:18:06
End at: 2019-06-27 12:18:36
Local clock offset: 0.427 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-06-27 14:13:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.26 Mbit/s
95th percentile per-packet one-way delay: 164.662 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 218.26 Mbit/s
95th percentile per-packet one-way delay: 164.662 ms
Loss rate: 1.28%
```

Run 3: Report of Copa — Data Link

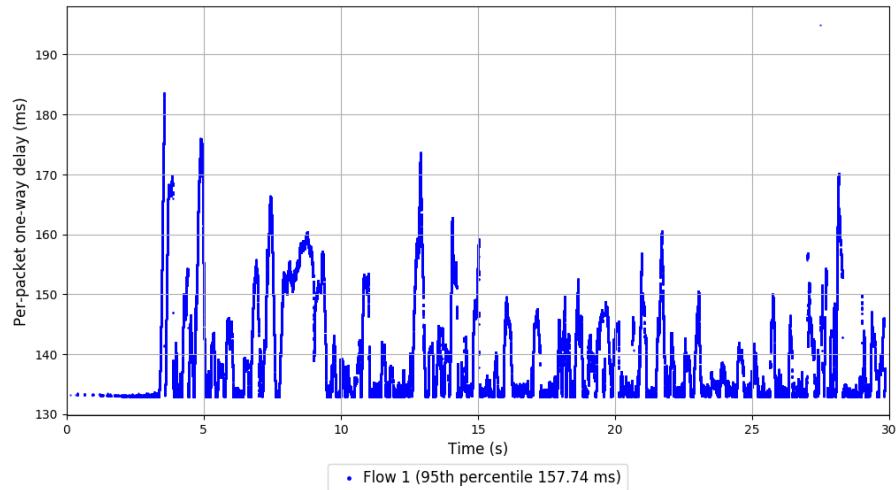
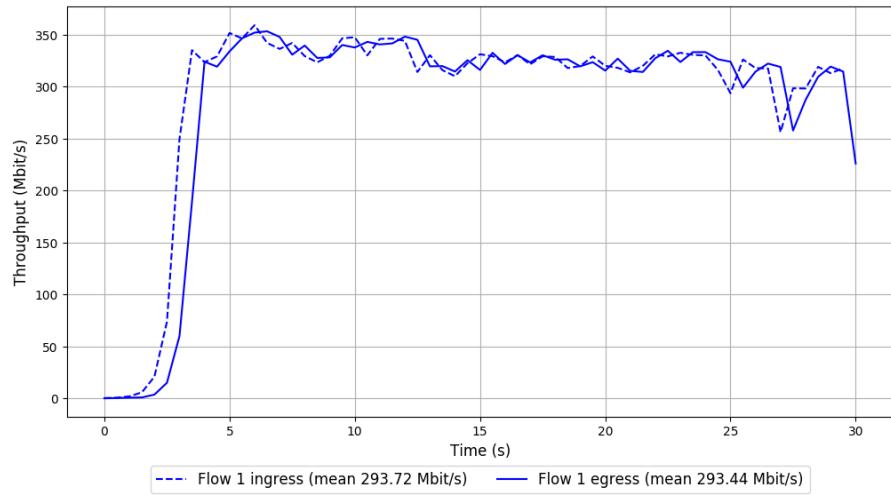


Run 4: Statistics of Copa

```
Start at: 2019-06-27 12:50:26
End at: 2019-06-27 12:50:56
Local clock offset: 0.171 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-06-27 14:21:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.44 Mbit/s
95th percentile per-packet one-way delay: 157.743 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 293.44 Mbit/s
95th percentile per-packet one-way delay: 157.743 ms
Loss rate: 0.98%
```

Run 4: Report of Copa — Data Link

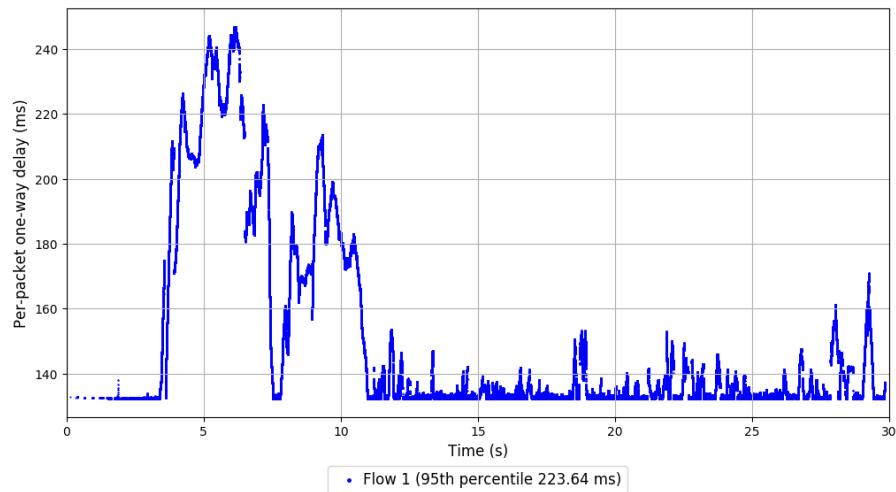
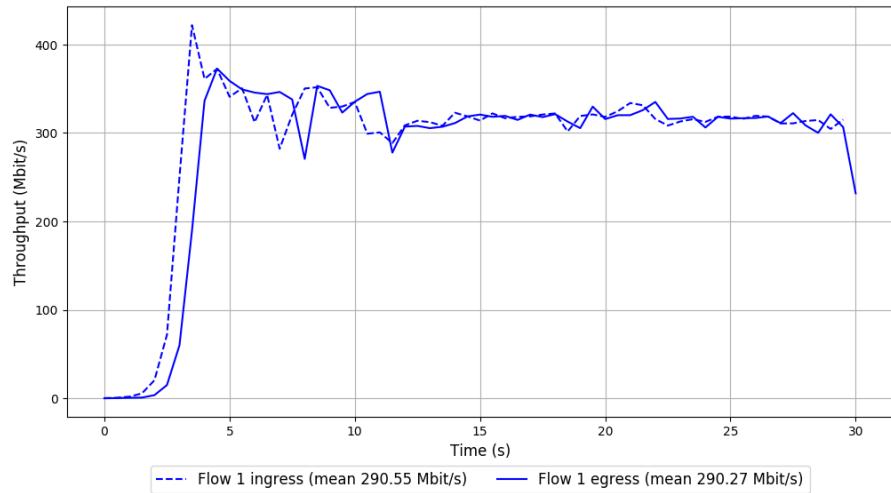


Run 5: Statistics of Copa

```
Start at: 2019-06-27 13:22:54
End at: 2019-06-27 13:23:24
Local clock offset: -0.39 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-06-27 14:21:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 290.27 Mbit/s
95th percentile per-packet one-way delay: 223.636 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 290.27 Mbit/s
95th percentile per-packet one-way delay: 223.636 ms
Loss rate: 0.98%
```

Run 5: Report of Copa — Data Link

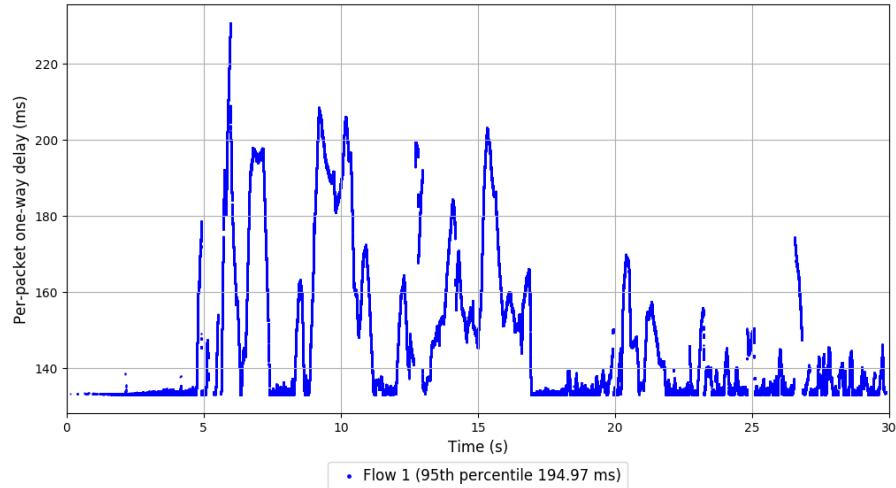
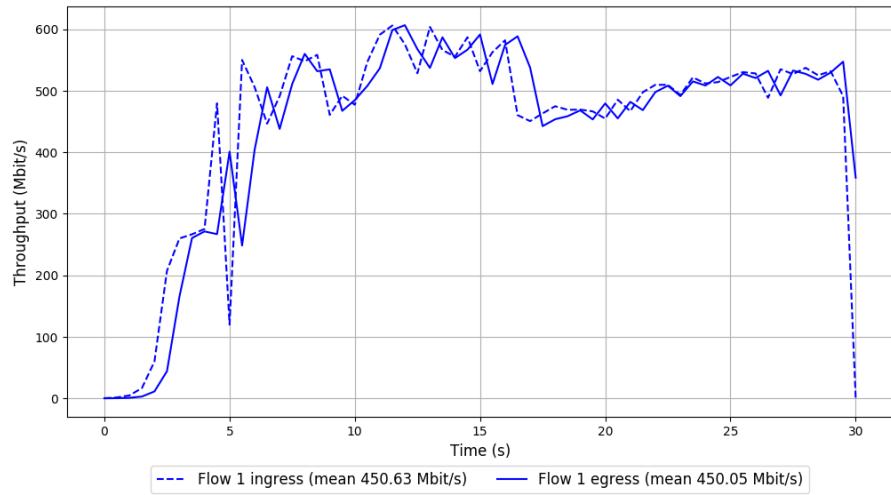


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-06-27 11:23:11
End at: 2019-06-27 11:23:41
Local clock offset: 0.129 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-06-27 14:21:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 450.05 Mbit/s
95th percentile per-packet one-way delay: 194.975 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 450.05 Mbit/s
95th percentile per-packet one-way delay: 194.975 ms
Loss rate: 1.01%
```

Run 1: Report of TCP Cubic — Data Link

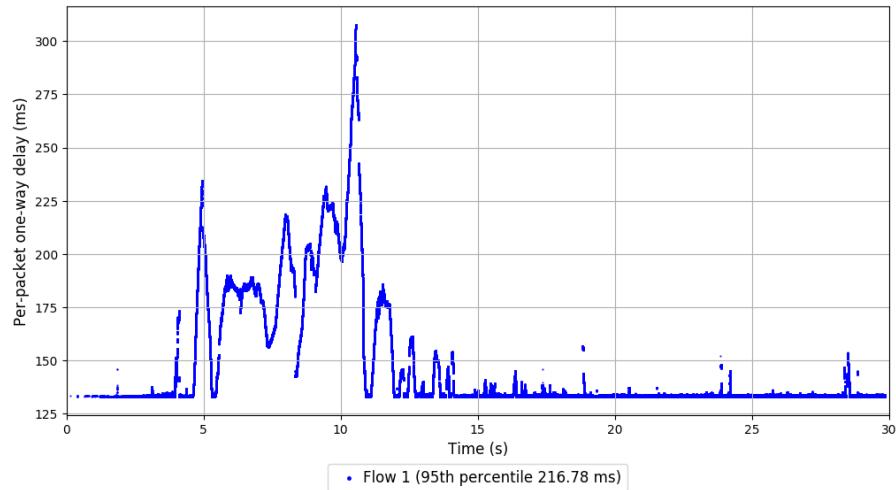
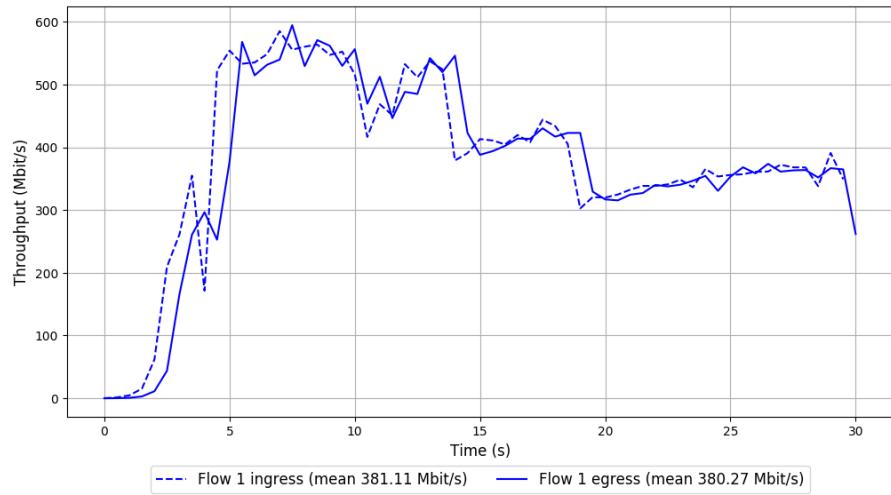


Run 2: Statistics of TCP Cubic

```
Start at: 2019-06-27 11:55:41
End at: 2019-06-27 11:56:11
Local clock offset: 0.454 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-06-27 14:21:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.27 Mbit/s
95th percentile per-packet one-way delay: 216.784 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 380.27 Mbit/s
95th percentile per-packet one-way delay: 216.784 ms
Loss rate: 1.10%
```

Run 2: Report of TCP Cubic — Data Link

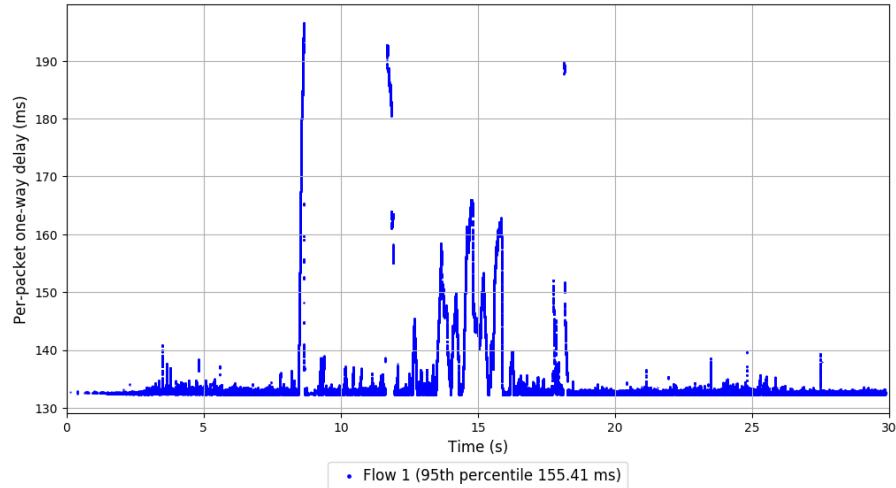
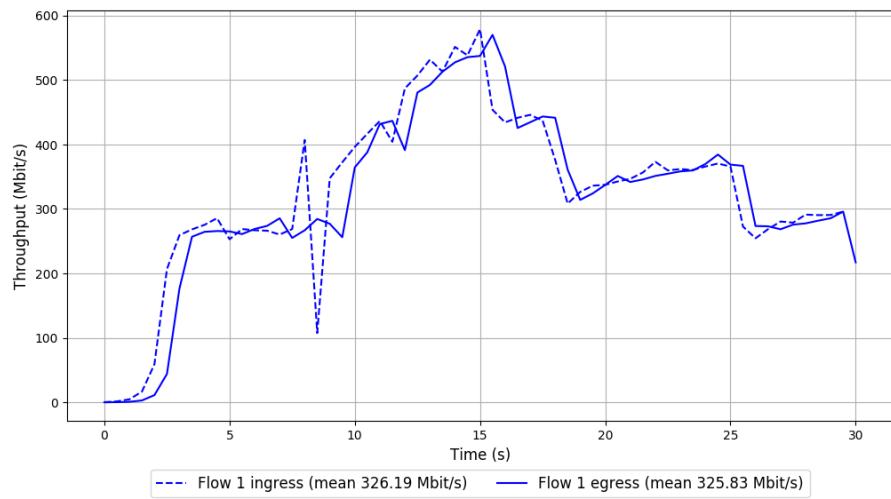


Run 3: Statistics of TCP Cubic

```
Start at: 2019-06-27 12:27:42
End at: 2019-06-27 12:28:12
Local clock offset: -0.056 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-06-27 14:21:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.83 Mbit/s
95th percentile per-packet one-way delay: 155.412 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 325.83 Mbit/s
95th percentile per-packet one-way delay: 155.412 ms
Loss rate: 0.98%
```

Run 3: Report of TCP Cubic — Data Link

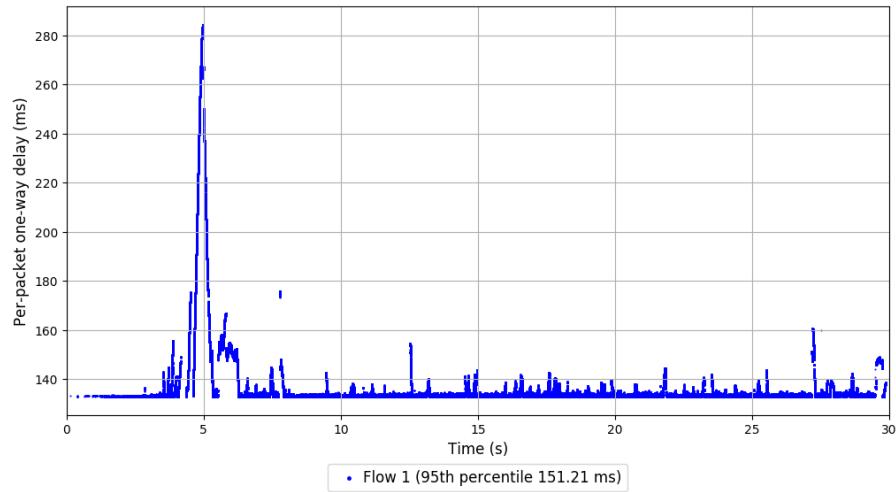
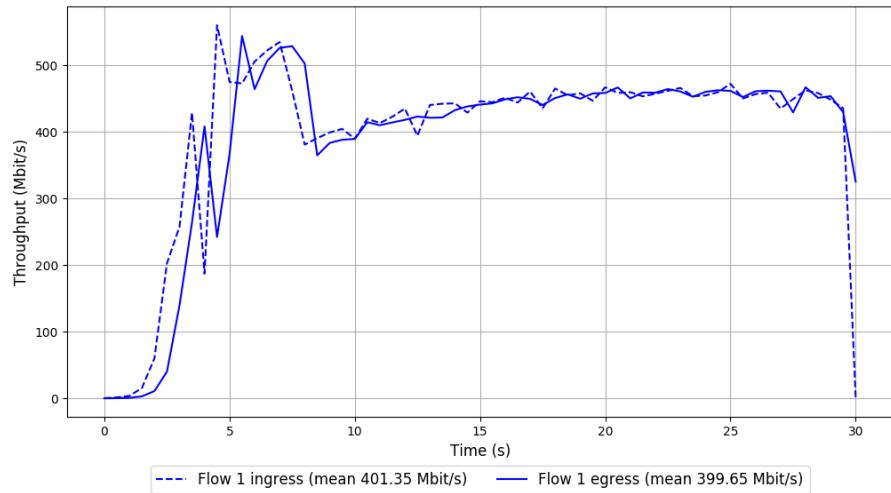


Run 4: Statistics of TCP Cubic

```
Start at: 2019-06-27 12:59:52
End at: 2019-06-27 13:00:22
Local clock offset: -0.038 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-06-27 14:21:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 399.65 Mbit/s
95th percentile per-packet one-way delay: 151.211 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 399.65 Mbit/s
95th percentile per-packet one-way delay: 151.211 ms
Loss rate: 1.31%
```

Run 4: Report of TCP Cubic — Data Link

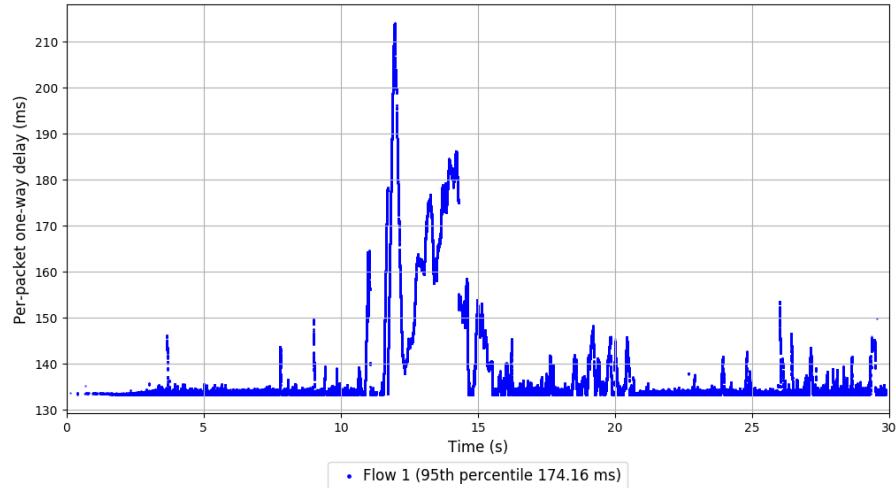
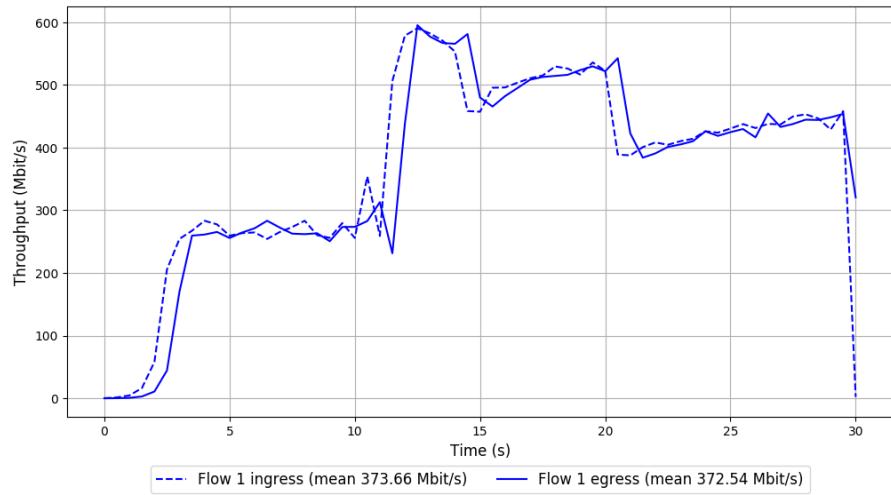


Run 5: Statistics of TCP Cubic

```
Start at: 2019-06-27 13:32:15
End at: 2019-06-27 13:32:45
Local clock offset: 0.364 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-06-27 14:21:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 372.54 Mbit/s
95th percentile per-packet one-way delay: 174.155 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 372.54 Mbit/s
95th percentile per-packet one-way delay: 174.155 ms
Loss rate: 1.18%
```

Run 5: Report of TCP Cubic — Data Link

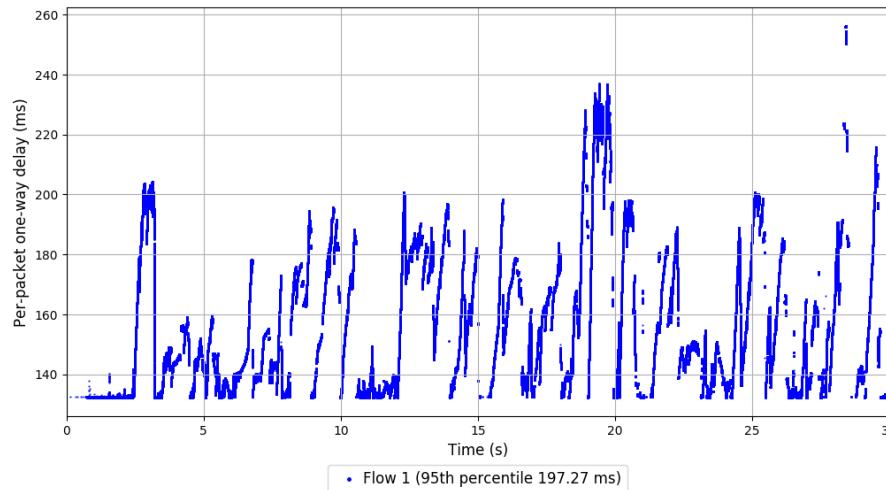
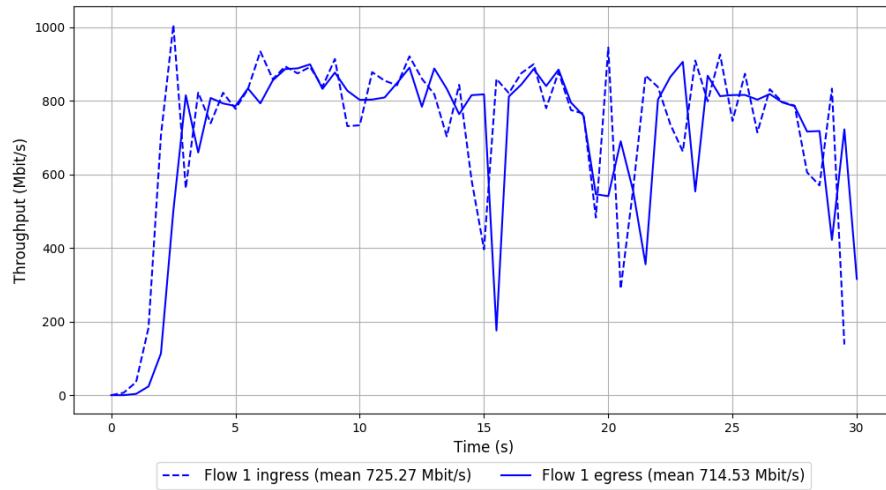


```
Run 1: Statistics of FillP
```

```
Start at: 2019-06-27 11:17:02
End at: 2019-06-27 11:17:32
Local clock offset: -0.143 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-06-27 14:28:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 714.53 Mbit/s
95th percentile per-packet one-way delay: 197.272 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 714.53 Mbit/s
95th percentile per-packet one-way delay: 197.272 ms
Loss rate: 2.19%
```

Run 1: Report of FillP — Data Link

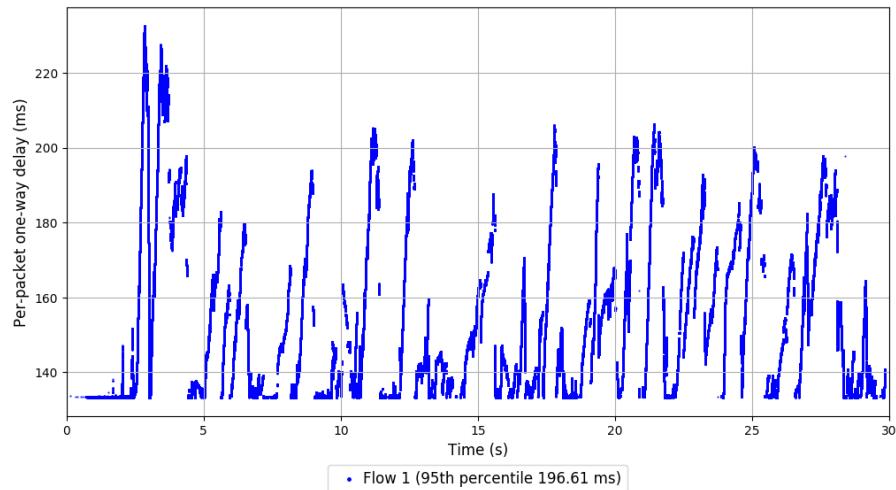
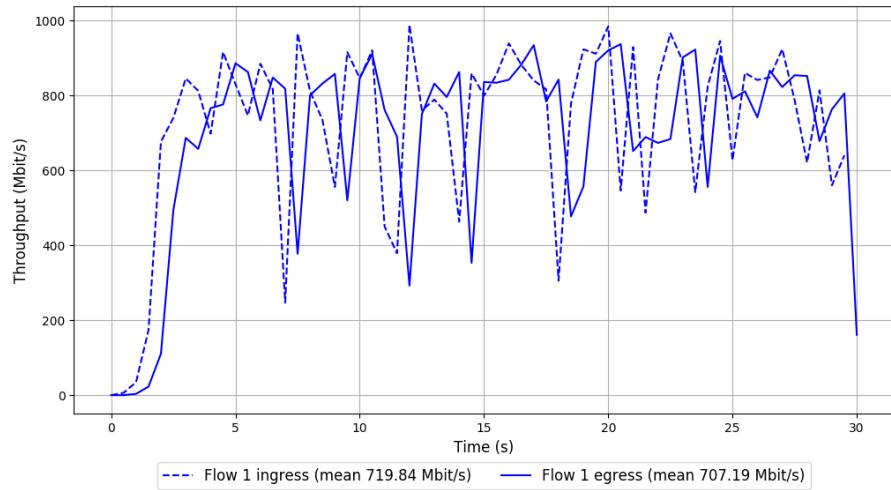


Run 2: Statistics of FillP

```
Start at: 2019-06-27 11:49:23
End at: 2019-06-27 11:49:53
Local clock offset: 0.248 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-06-27 14:34:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 707.19 Mbit/s
95th percentile per-packet one-way delay: 196.610 ms
Loss rate: 2.63%
-- Flow 1:
Average throughput: 707.19 Mbit/s
95th percentile per-packet one-way delay: 196.610 ms
Loss rate: 2.63%
```

Run 2: Report of FillP — Data Link

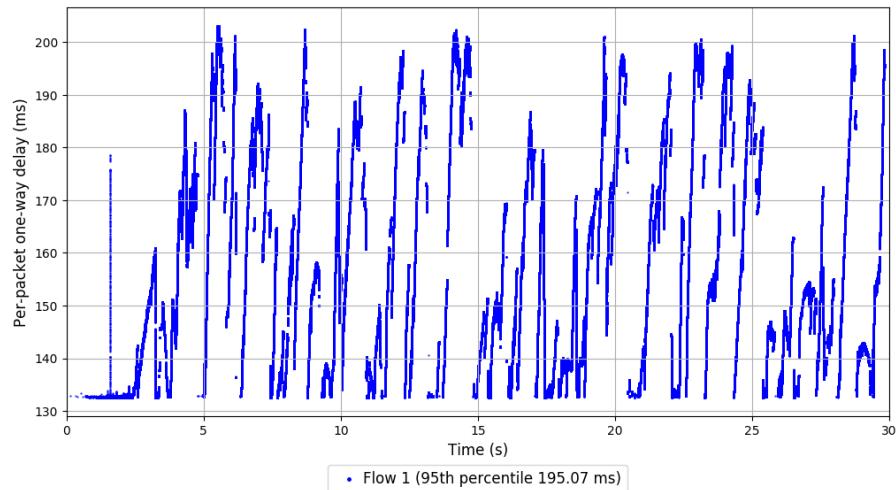
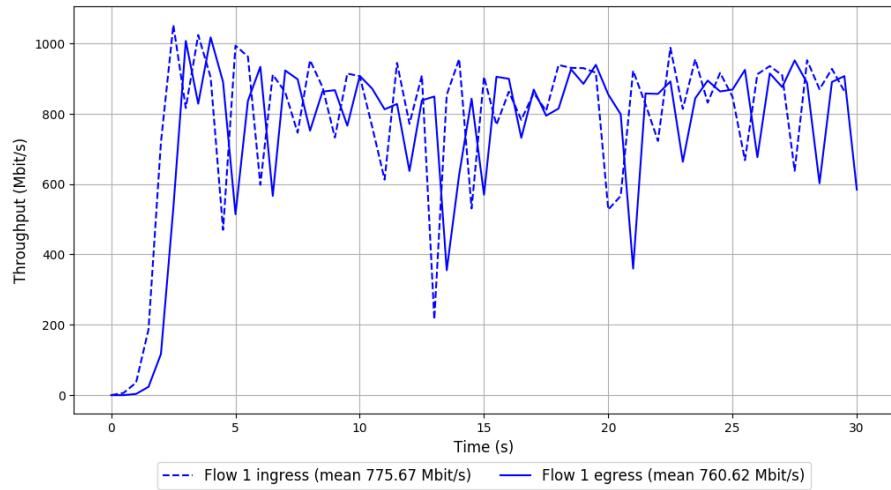


Run 3: Statistics of FillP

```
Start at: 2019-06-27 12:21:22
End at: 2019-06-27 12:21:52
Local clock offset: -0.264 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-06-27 14:36:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 760.62 Mbit/s
95th percentile per-packet one-way delay: 195.075 ms
Loss rate: 2.81%
-- Flow 1:
Average throughput: 760.62 Mbit/s
95th percentile per-packet one-way delay: 195.075 ms
Loss rate: 2.81%
```

Run 3: Report of FillP — Data Link

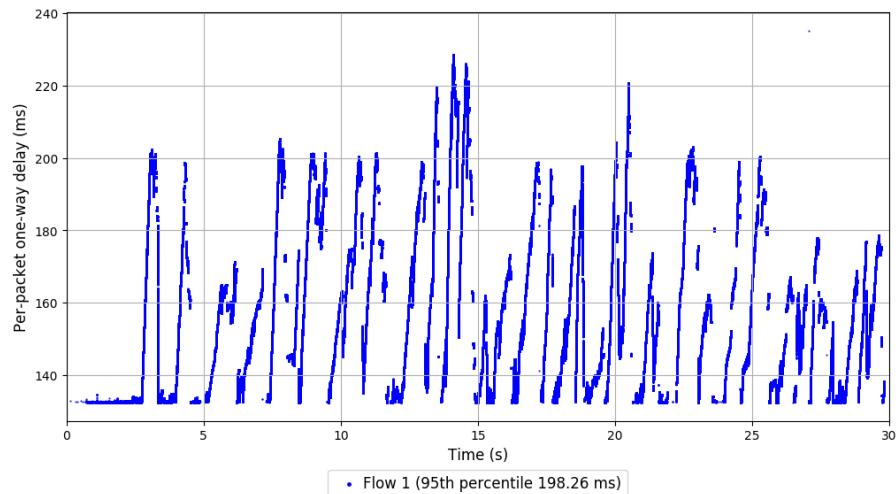
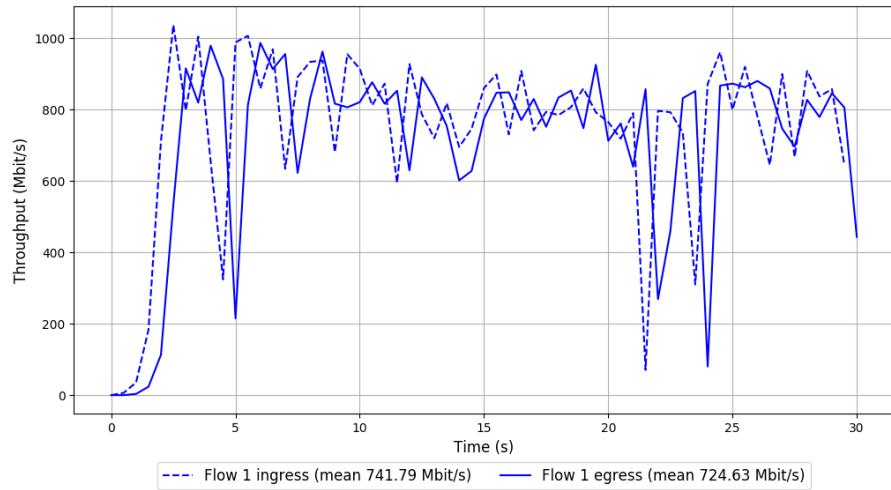


Run 4: Statistics of FillP

```
Start at: 2019-06-27 12:53:36
End at: 2019-06-27 12:54:06
Local clock offset: 0.177 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-06-27 14:36:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 724.63 Mbit/s
95th percentile per-packet one-way delay: 198.256 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 724.63 Mbit/s
95th percentile per-packet one-way delay: 198.256 ms
Loss rate: 3.18%
```

Run 4: Report of FillP — Data Link

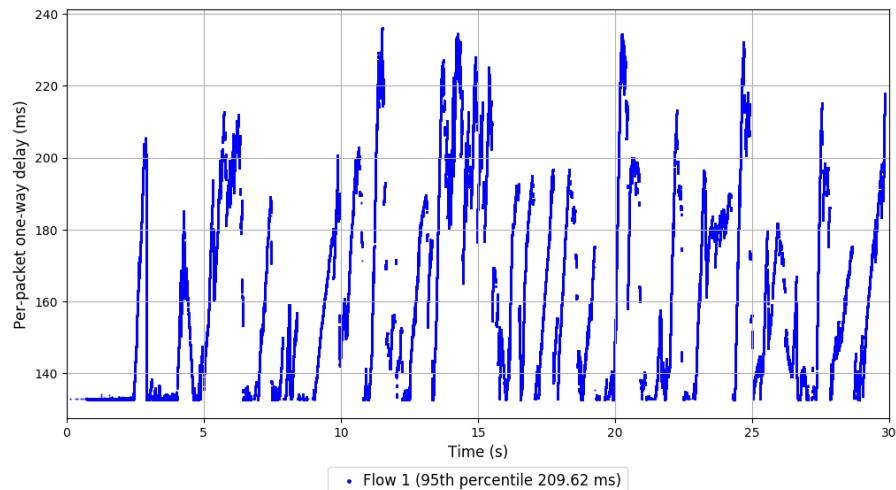
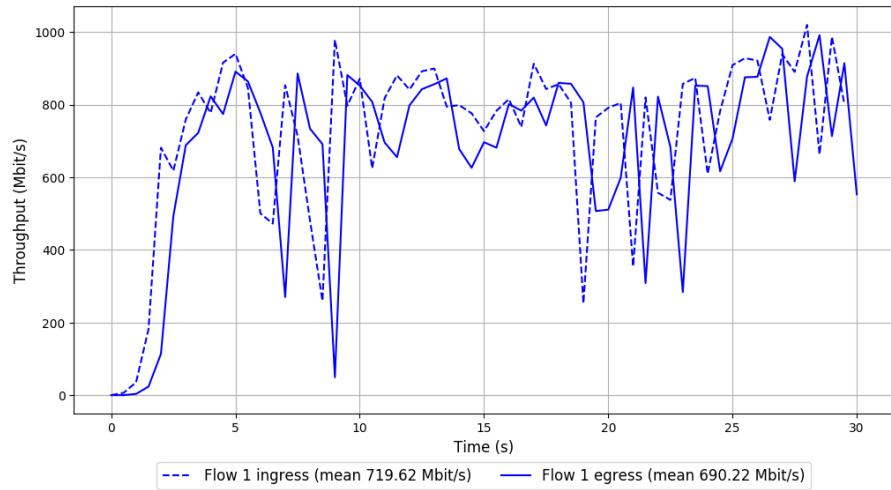


```
Run 5: Statistics of FillP
```

```
Start at: 2019-06-27 13:26:18
End at: 2019-06-27 13:26:48
Local clock offset: 0.42 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-06-27 14:36:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 690.22 Mbit/s
95th percentile per-packet one-way delay: 209.625 ms
Loss rate: 4.94%
-- Flow 1:
Average throughput: 690.22 Mbit/s
95th percentile per-packet one-way delay: 209.625 ms
Loss rate: 4.94%
```

Run 5: Report of FillP — Data Link

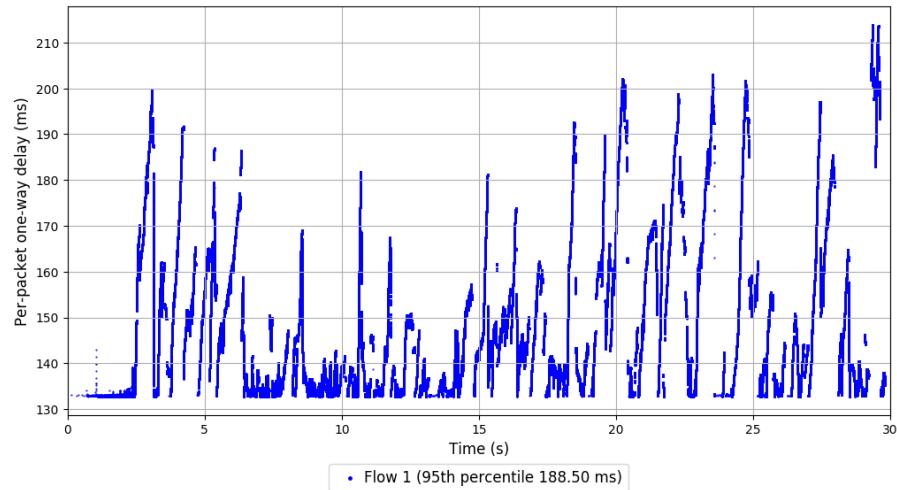
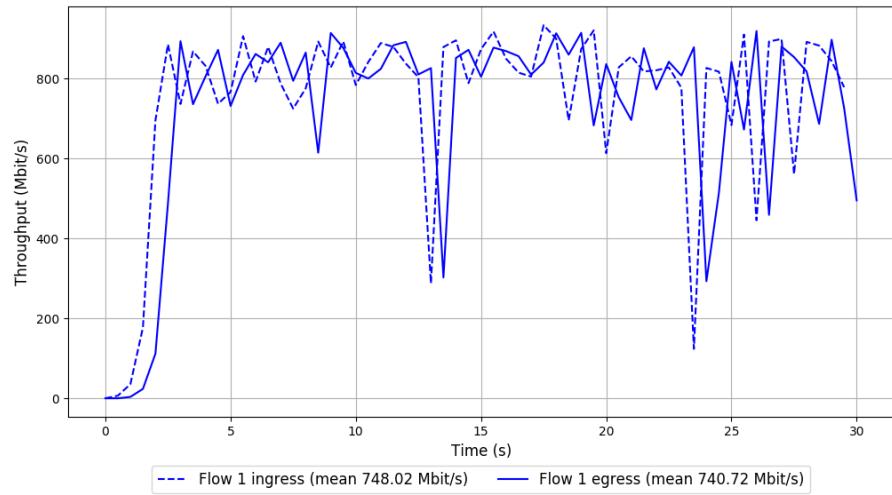


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-06-27 11:32:14
End at: 2019-06-27 11:32:44
Local clock offset: -0.201 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-06-27 14:36:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 740.72 Mbit/s
95th percentile per-packet one-way delay: 188.503 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 740.72 Mbit/s
95th percentile per-packet one-way delay: 188.503 ms
Loss rate: 1.86%
```

Run 1: Report of FillP-Sheep — Data Link

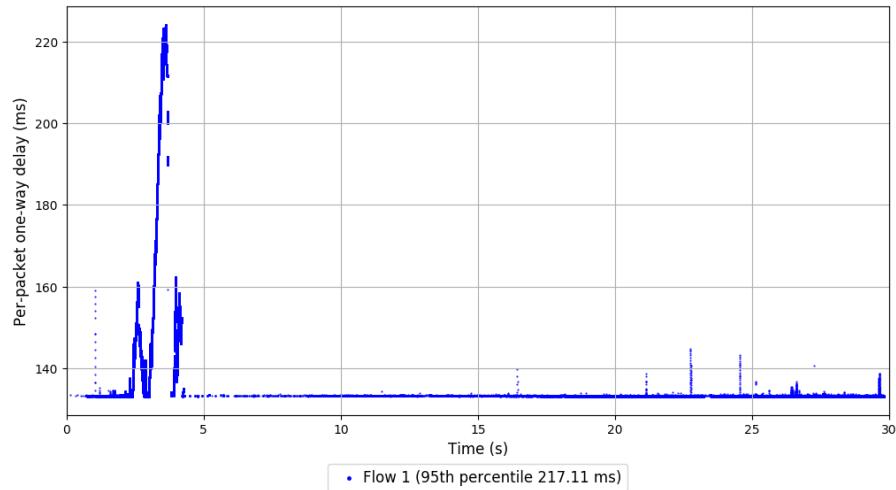
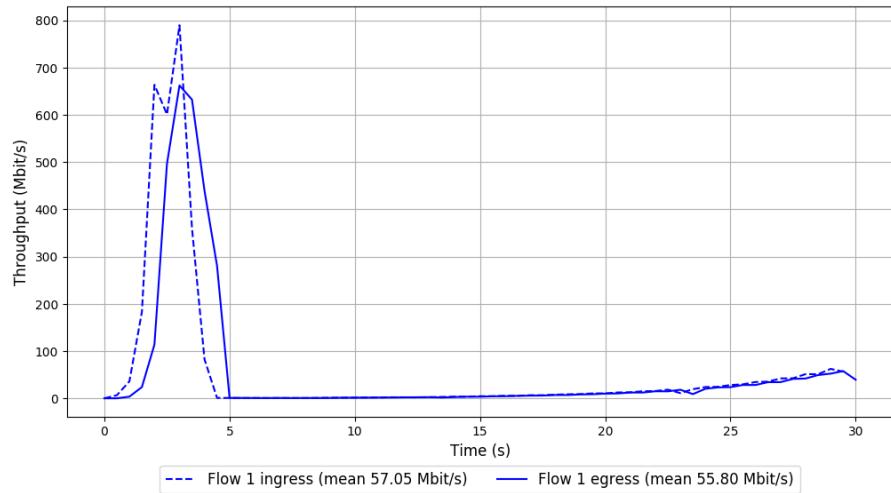


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-06-27 12:04:29
End at: 2019-06-27 12:04:59
Local clock offset: 0.466 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-06-27 14:36:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.80 Mbit/s
95th percentile per-packet one-way delay: 217.109 ms
Loss rate: 3.06%
-- Flow 1:
Average throughput: 55.80 Mbit/s
95th percentile per-packet one-way delay: 217.109 ms
Loss rate: 3.06%
```

Run 2: Report of FillP-Sheep — Data Link

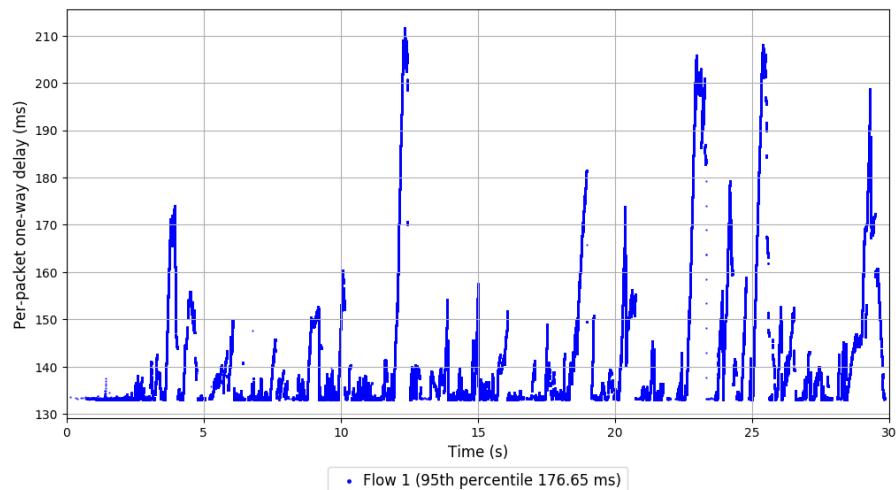
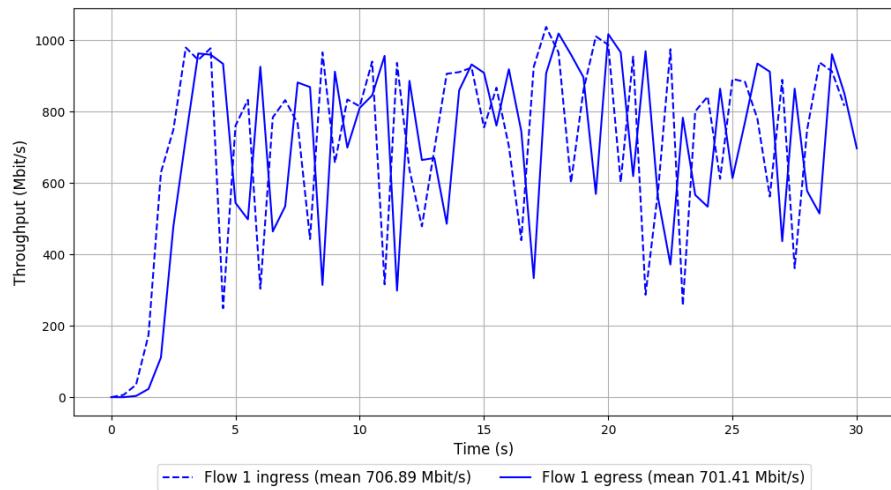


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-06-27 12:36:25
End at: 2019-06-27 12:36:55
Local clock offset: -0.035 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-06-27 14:37:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 701.41 Mbit/s
95th percentile per-packet one-way delay: 176.648 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 701.41 Mbit/s
95th percentile per-packet one-way delay: 176.648 ms
Loss rate: 1.59%
```

Run 3: Report of FillP-Sheep — Data Link

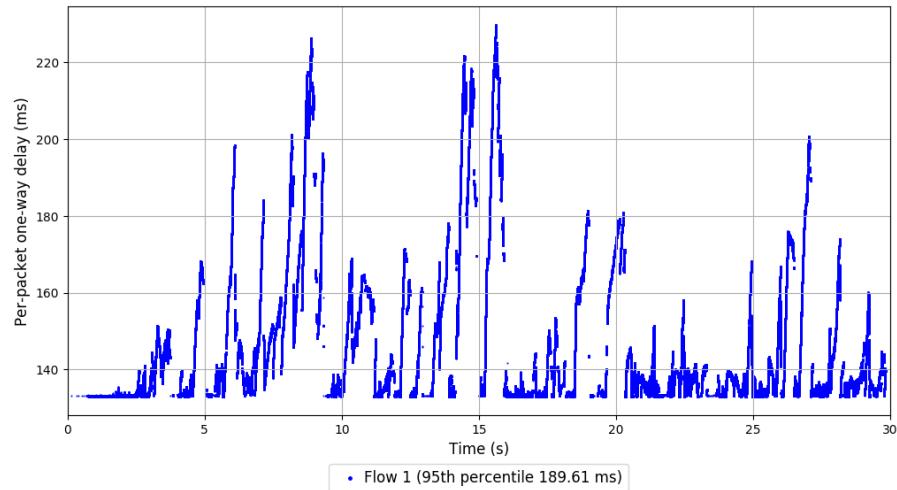
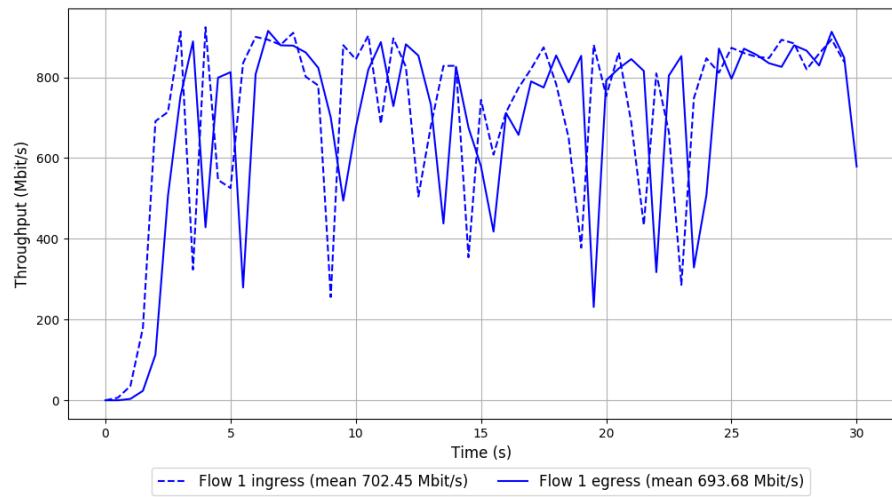


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-06-27 13:08:46
End at: 2019-06-27 13:09:16
Local clock offset: 0.23 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-06-27 14:38:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 693.68 Mbit/s
95th percentile per-packet one-way delay: 189.608 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 693.68 Mbit/s
95th percentile per-packet one-way delay: 189.608 ms
Loss rate: 2.13%
```

Run 4: Report of FillP-Sheep — Data Link

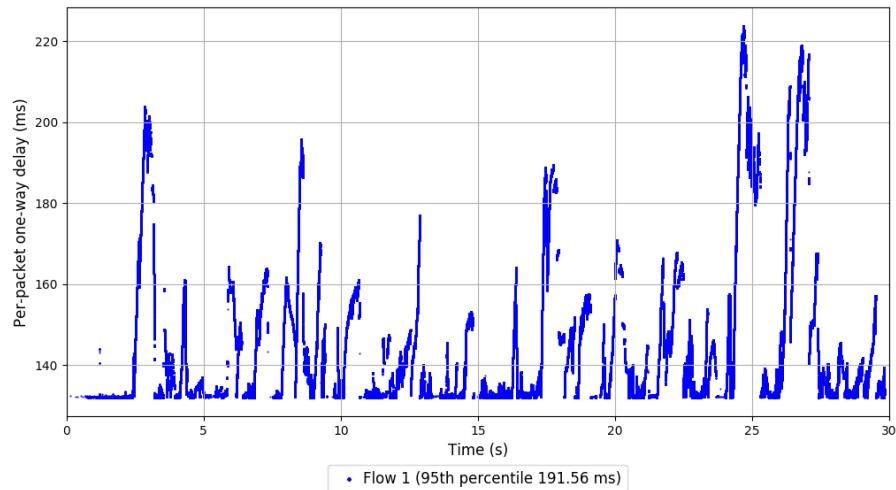
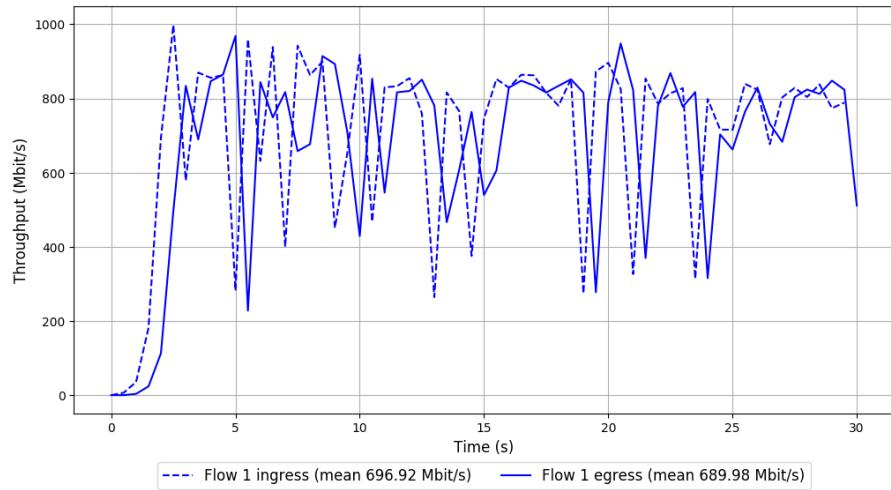


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-06-27 13:41:12
End at: 2019-06-27 13:41:42
Local clock offset: -0.007 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-06-27 14:46:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 689.98 Mbit/s
95th percentile per-packet one-way delay: 191.563 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 689.98 Mbit/s
95th percentile per-packet one-way delay: 191.563 ms
Loss rate: 1.88%
```

Run 5: Report of FillP-Sheep — Data Link

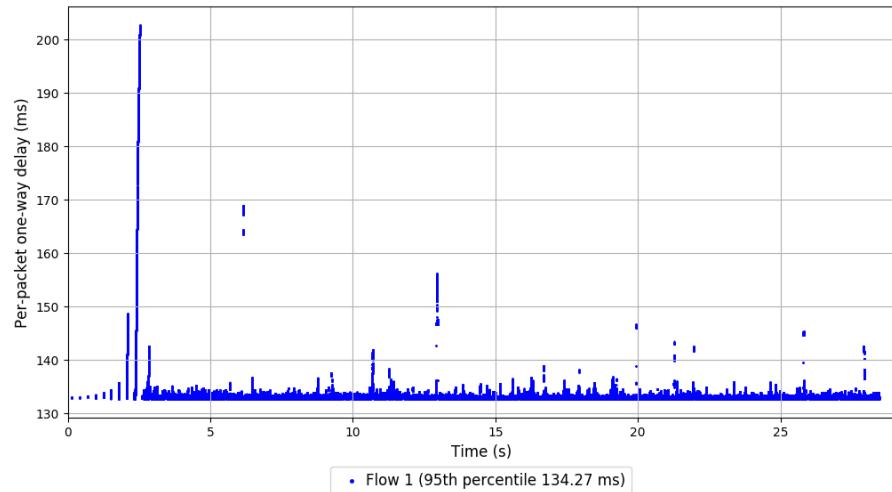
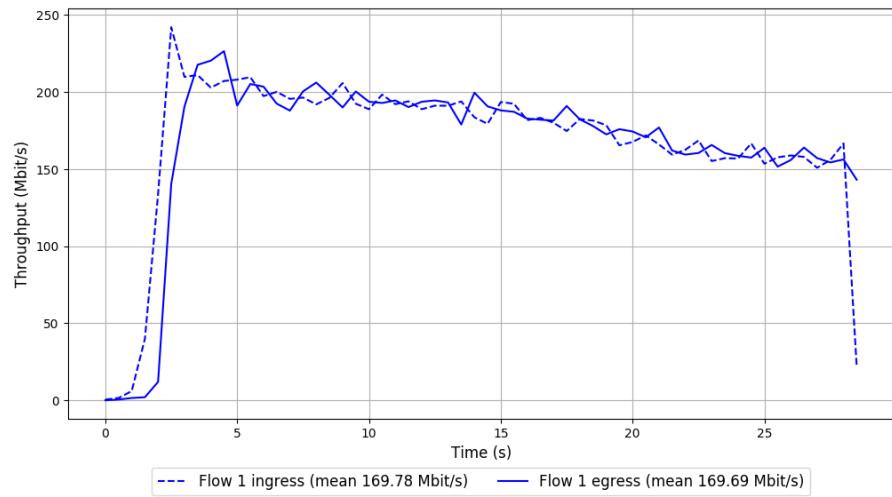


Run 1: Statistics of Indigo

```
Start at: 2019-06-27 11:36:22
End at: 2019-06-27 11:36:52
Local clock offset: -0.342 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-06-27 14:46:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.69 Mbit/s
95th percentile per-packet one-way delay: 134.271 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 169.69 Mbit/s
95th percentile per-packet one-way delay: 134.271 ms
Loss rate: 0.99%
```

Run 1: Report of Indigo — Data Link

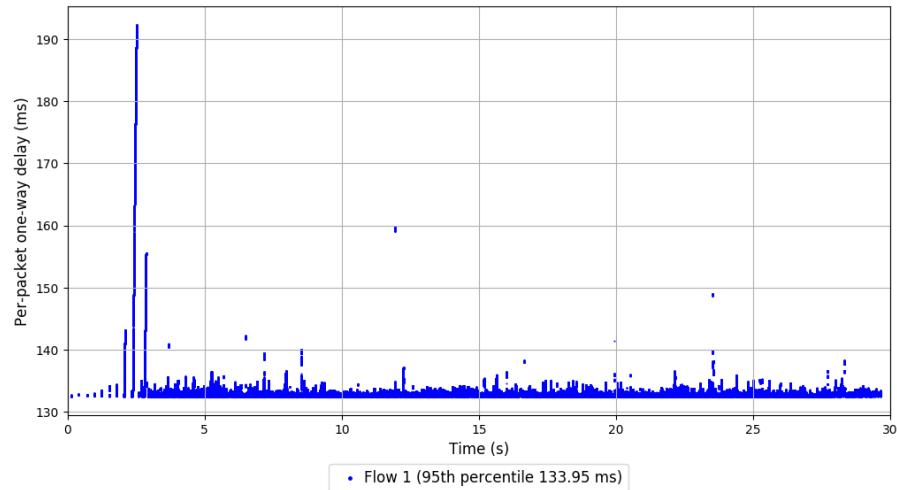
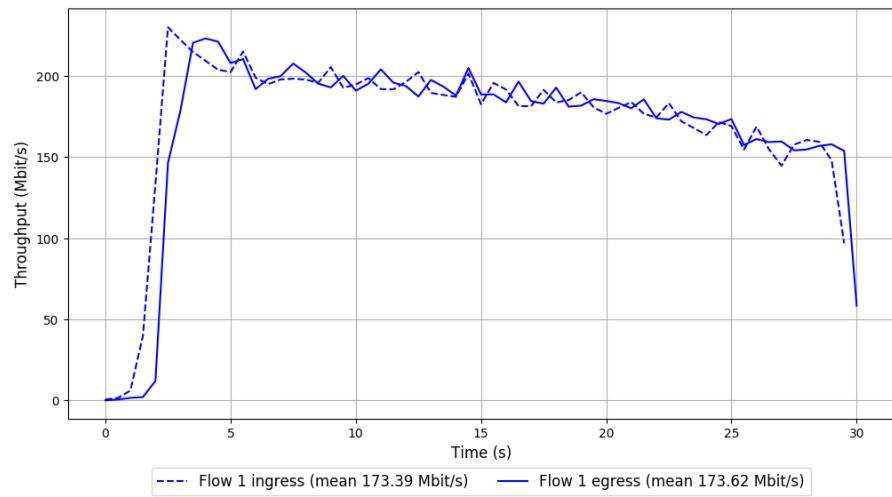


Run 2: Statistics of Indigo

```
Start at: 2019-06-27 12:08:06
End at: 2019-06-27 12:08:36
Local clock offset: -0.211 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-06-27 14:46:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.62 Mbit/s
95th percentile per-packet one-way delay: 133.954 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 173.62 Mbit/s
95th percentile per-packet one-way delay: 133.954 ms
Loss rate: 0.76%
```

Run 2: Report of Indigo — Data Link

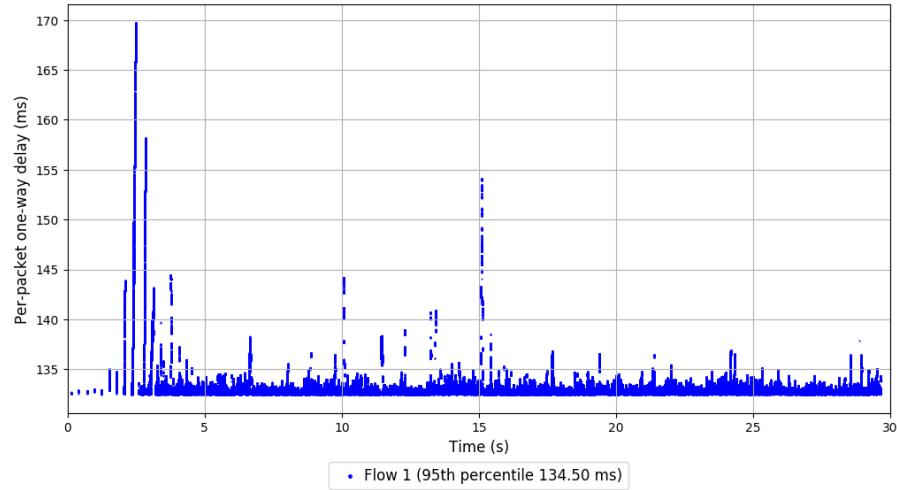
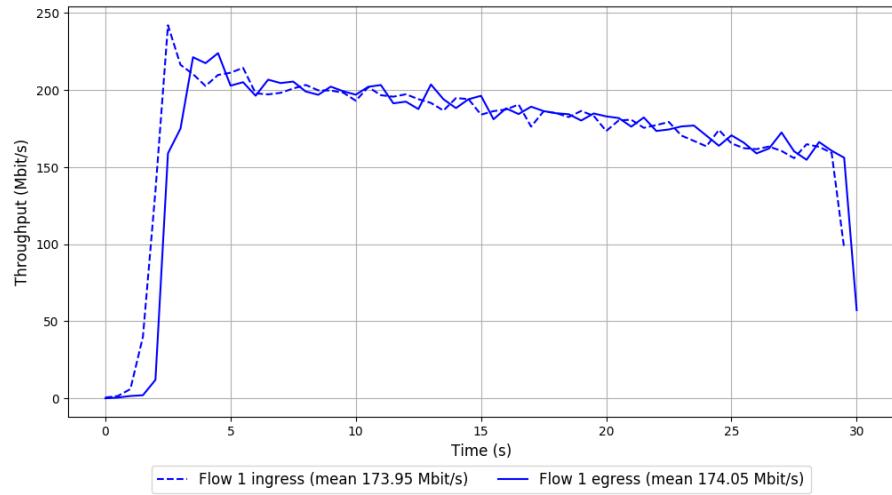


Run 3: Statistics of Indigo

```
Start at: 2019-06-27 12:40:31
End at: 2019-06-27 12:41:01
Local clock offset: 0.103 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-06-27 14:46:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 174.05 Mbit/s
95th percentile per-packet one-way delay: 134.502 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 174.05 Mbit/s
95th percentile per-packet one-way delay: 134.502 ms
Loss rate: 0.82%
```

Run 3: Report of Indigo — Data Link

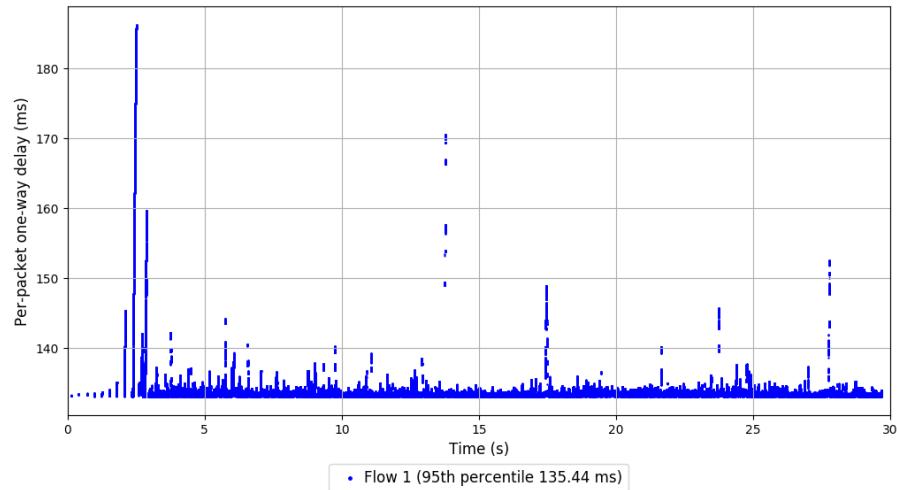
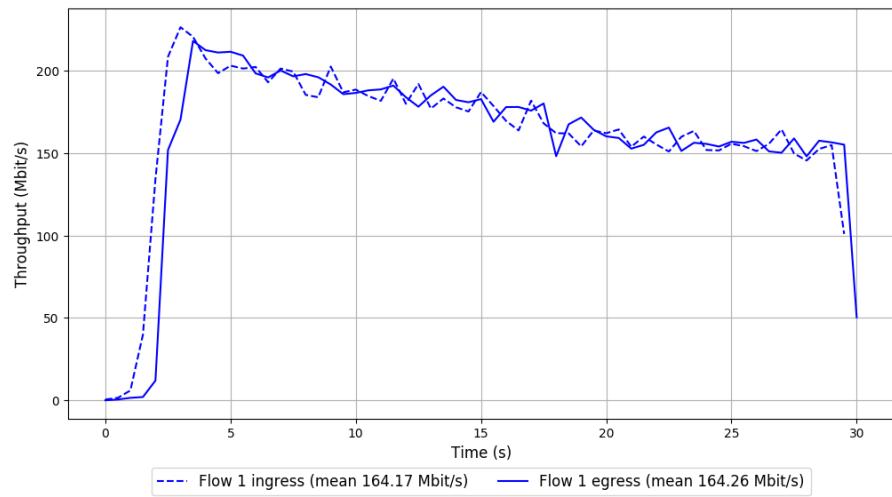


Run 4: Statistics of Indigo

```
Start at: 2019-06-27 13:12:52
End at: 2019-06-27 13:13:22
Local clock offset: 0.024 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-06-27 14:46:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 164.26 Mbit/s
95th percentile per-packet one-way delay: 135.444 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 164.26 Mbit/s
95th percentile per-packet one-way delay: 135.444 ms
Loss rate: 0.84%
```

Run 4: Report of Indigo — Data Link

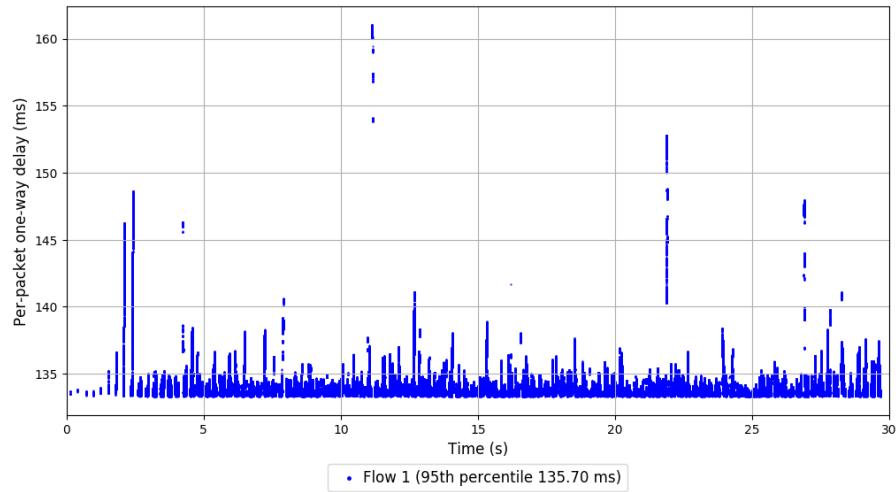
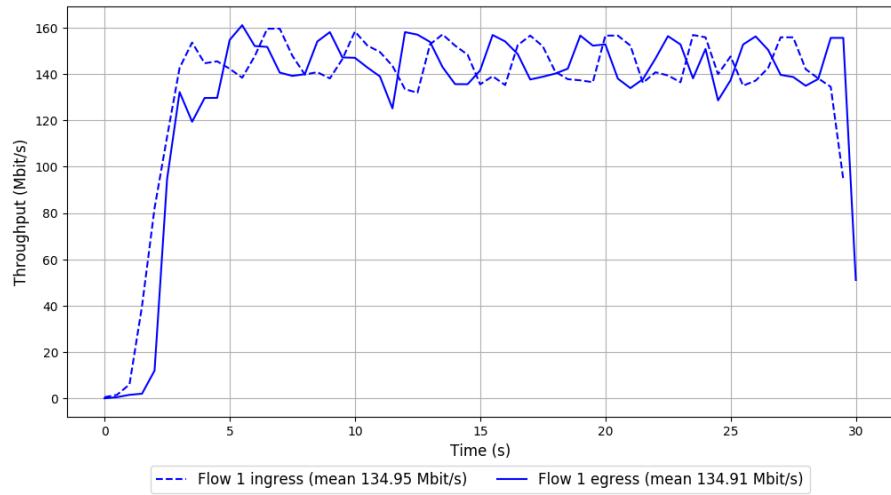


Run 5: Statistics of Indigo

```
Start at: 2019-06-27 13:45:18
End at: 2019-06-27 13:45:48
Local clock offset: 0.368 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-06-27 14:46:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.91 Mbit/s
95th percentile per-packet one-way delay: 135.703 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 134.91 Mbit/s
95th percentile per-packet one-way delay: 135.703 ms
Loss rate: 0.93%
```

Run 5: Report of Indigo — Data Link

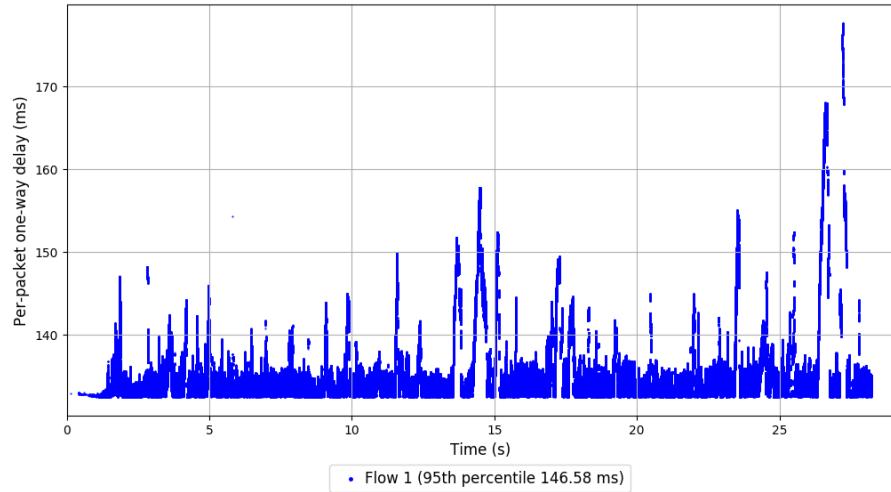
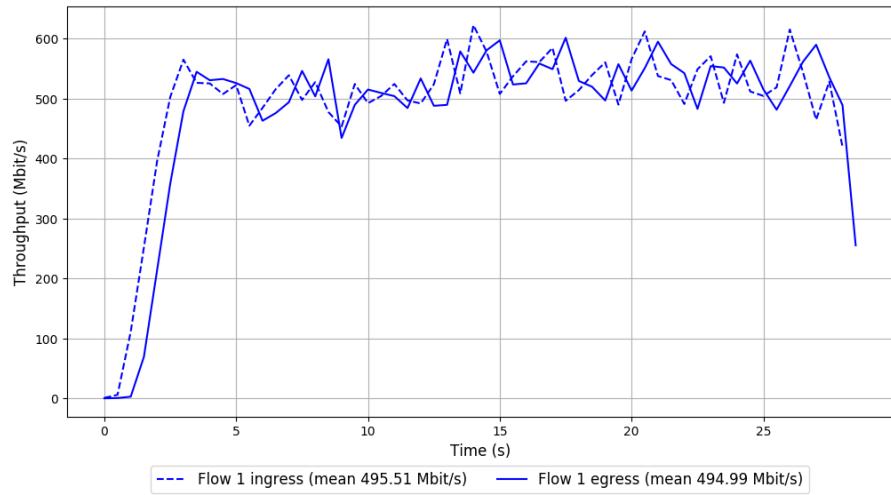


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 11:43:23
End at: 2019-06-27 11:43:53
Local clock offset: -0.352 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-06-27 14:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 494.99 Mbit/s
95th percentile per-packet one-way delay: 146.581 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 494.99 Mbit/s
95th percentile per-packet one-way delay: 146.581 ms
Loss rate: 1.06%
```

Run 1: Report of Indigo-MusesC3 — Data Link

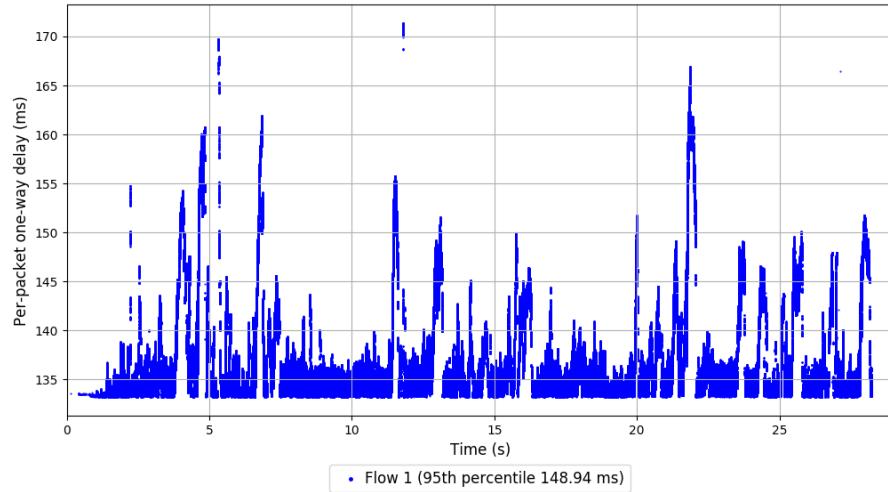
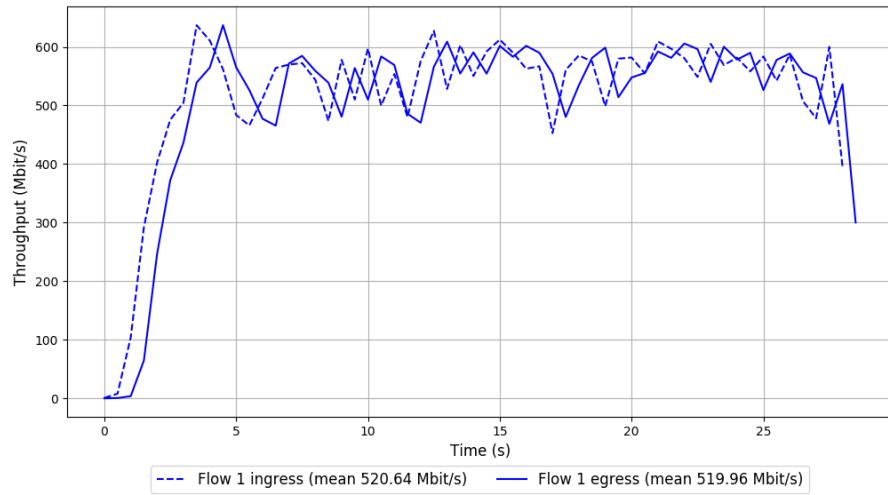


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 12:15:16
End at: 2019-06-27 12:15:46
Local clock offset: 0.18 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-06-27 14:48:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 519.96 Mbit/s
95th percentile per-packet one-way delay: 148.944 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 519.96 Mbit/s
95th percentile per-packet one-way delay: 148.944 ms
Loss rate: 1.09%
```

Run 2: Report of Indigo-MusesC3 — Data Link

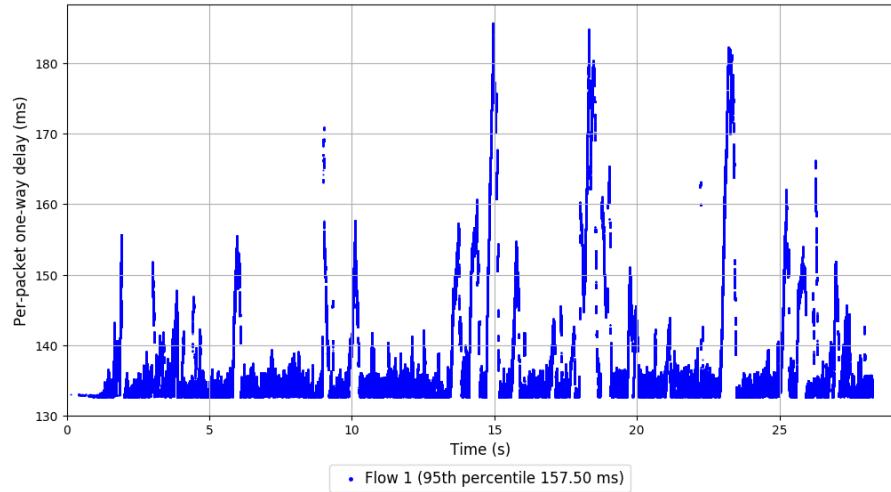
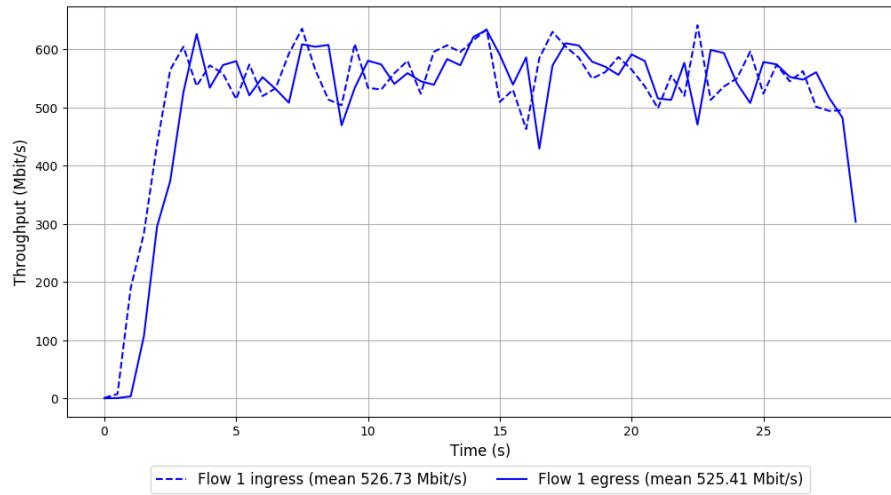


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 12:47:36
End at: 2019-06-27 12:48:06
Local clock offset: -0.004 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-06-27 14:50:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 525.41 Mbit/s
95th percentile per-packet one-way delay: 157.501 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 525.41 Mbit/s
95th percentile per-packet one-way delay: 157.501 ms
Loss rate: 1.19%
```

Run 3: Report of Indigo-MusesC3 — Data Link

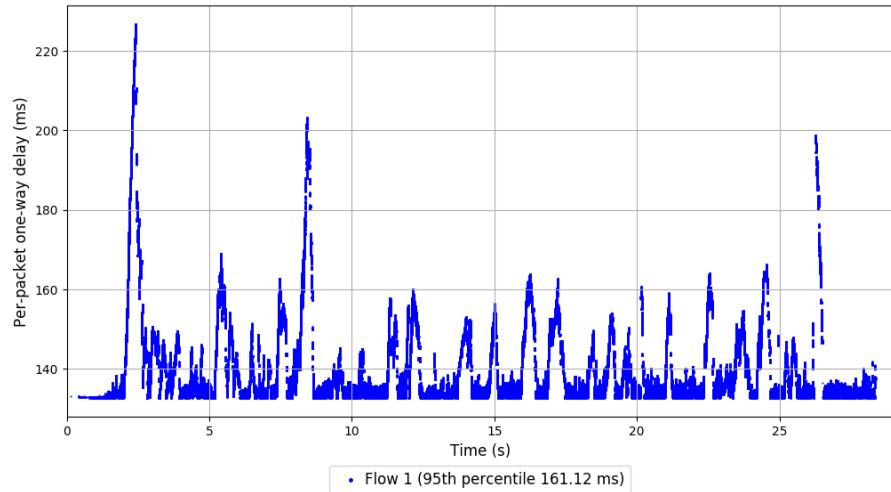
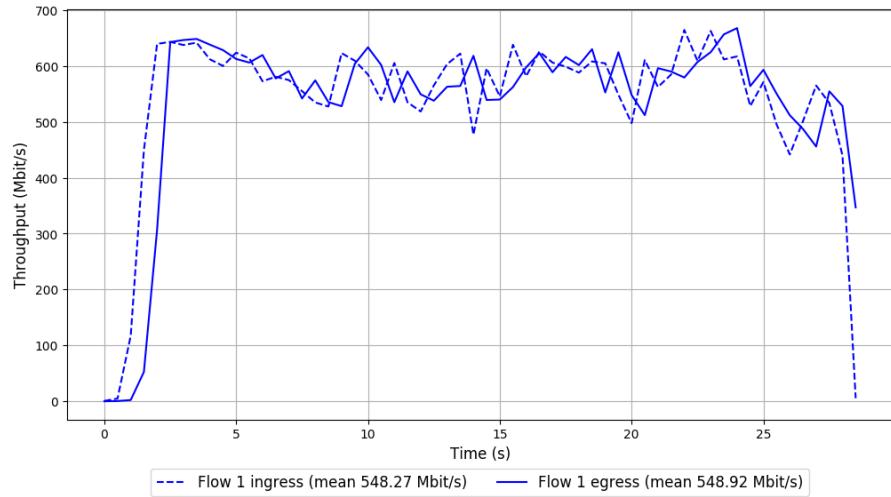


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 13:20:02
End at: 2019-06-27 13:20:32
Local clock offset: 0.215 ms
Remote clock offset: 0.416 ms

# Below is generated by plot.py at 2019-06-27 14:51:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 548.92 Mbit/s
95th percentile per-packet one-way delay: 161.116 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 548.92 Mbit/s
95th percentile per-packet one-way delay: 161.116 ms
Loss rate: 0.82%
```

Run 4: Report of Indigo-MusesC3 — Data Link

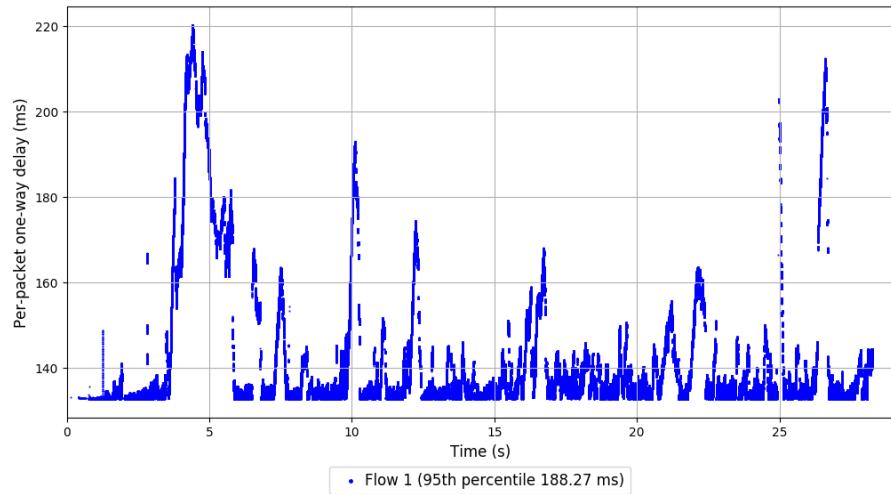
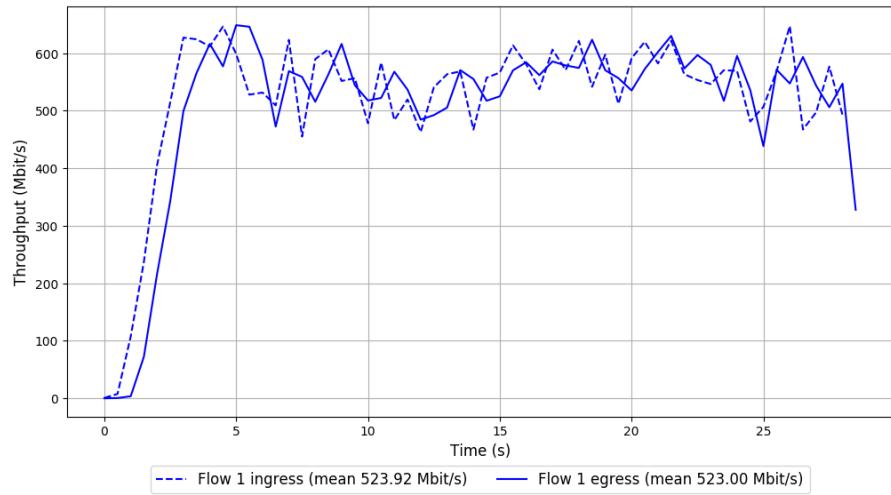


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 13:52:20
End at: 2019-06-27 13:52:50
Local clock offset: -0.014 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-06-27 14:51:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 523.00 Mbit/s
95th percentile per-packet one-way delay: 188.267 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 523.00 Mbit/s
95th percentile per-packet one-way delay: 188.267 ms
Loss rate: 1.12%
```

Run 5: Report of Indigo-MusesC3 — Data Link

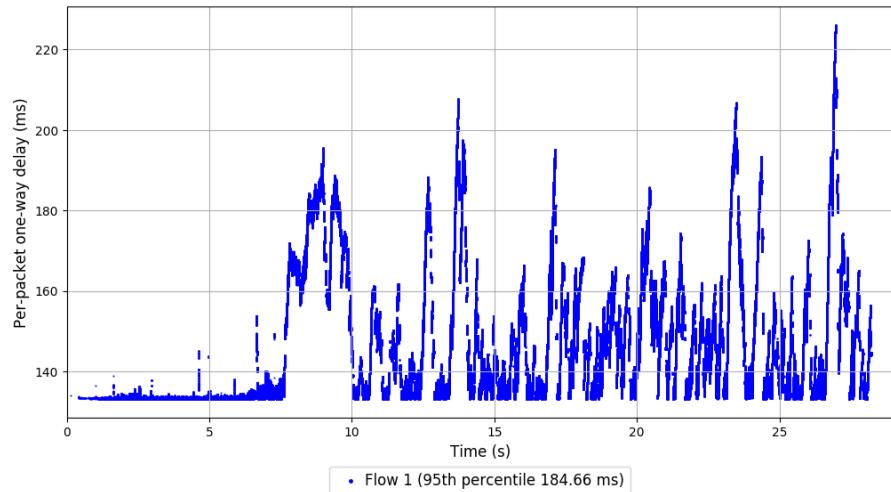
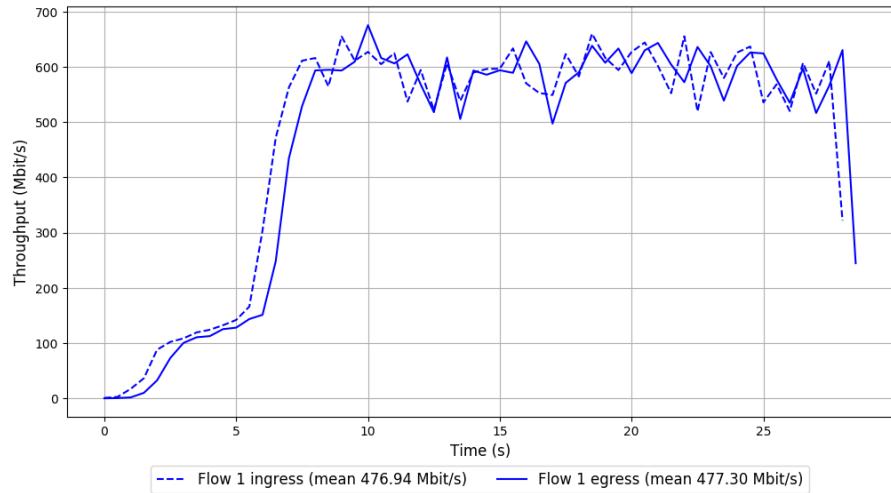


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 11:26:22
End at: 2019-06-27 11:26:52
Local clock offset: 0.134 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-06-27 14:51:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 477.30 Mbit/s
95th percentile per-packet one-way delay: 184.656 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 477.30 Mbit/s
95th percentile per-packet one-way delay: 184.656 ms
Loss rate: 0.87%
```

Run 1: Report of Indigo-MusesC5 — Data Link

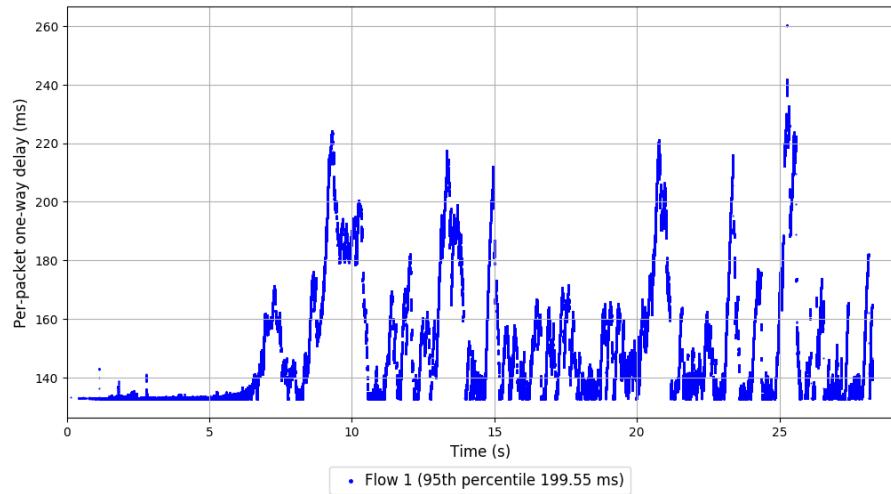
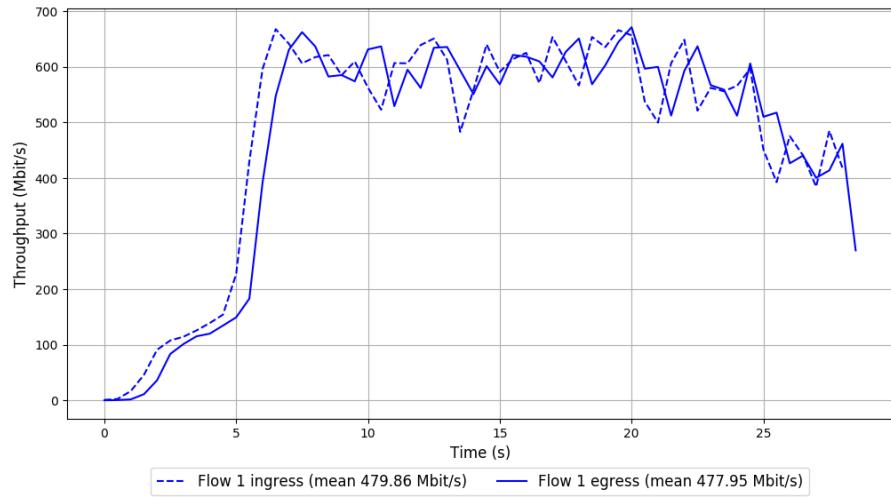


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 11:58:32
End at: 2019-06-27 11:59:02
Local clock offset: 0.029 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-06-27 14:51:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 477.95 Mbit/s
95th percentile per-packet one-way delay: 199.548 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 477.95 Mbit/s
95th percentile per-packet one-way delay: 199.548 ms
Loss rate: 1.33%
```

Run 2: Report of Indigo-MusesC5 — Data Link

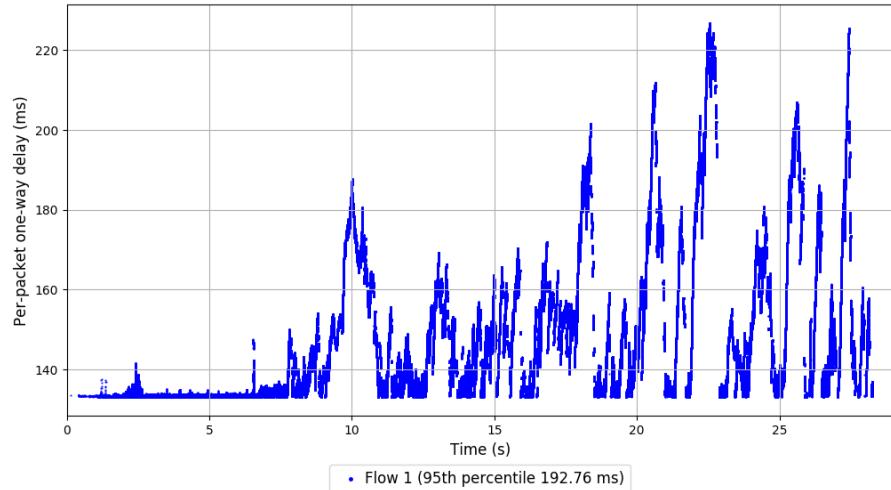
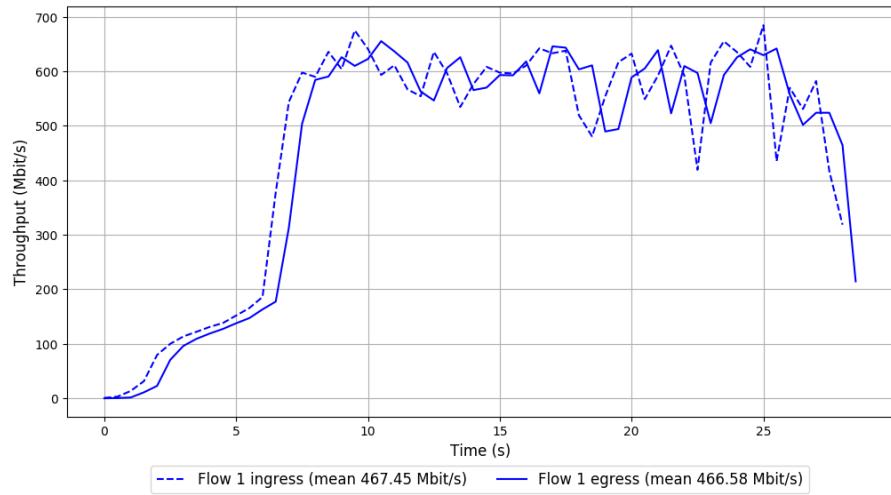


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 12:30:32
End at: 2019-06-27 12:31:02
Local clock offset: 0.126 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-06-27 14:55:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 466.58 Mbit/s
95th percentile per-packet one-way delay: 192.759 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 466.58 Mbit/s
95th percentile per-packet one-way delay: 192.759 ms
Loss rate: 1.12%
```

Run 3: Report of Indigo-MusesC5 — Data Link

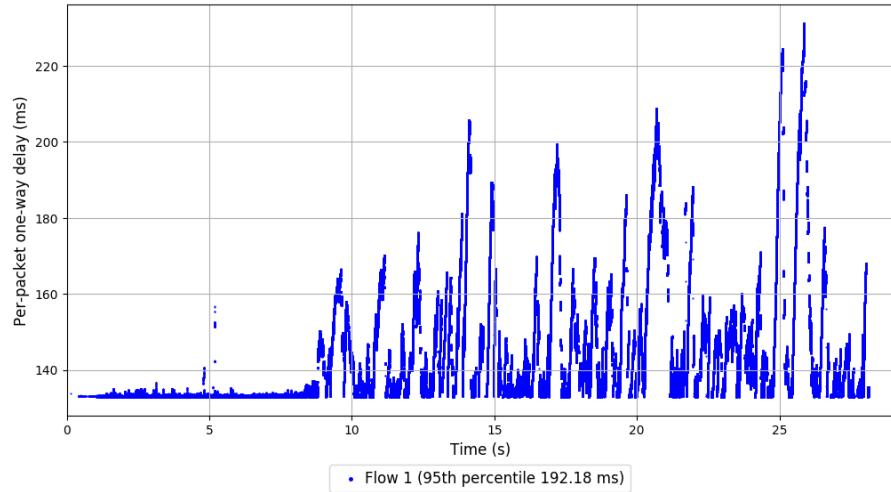
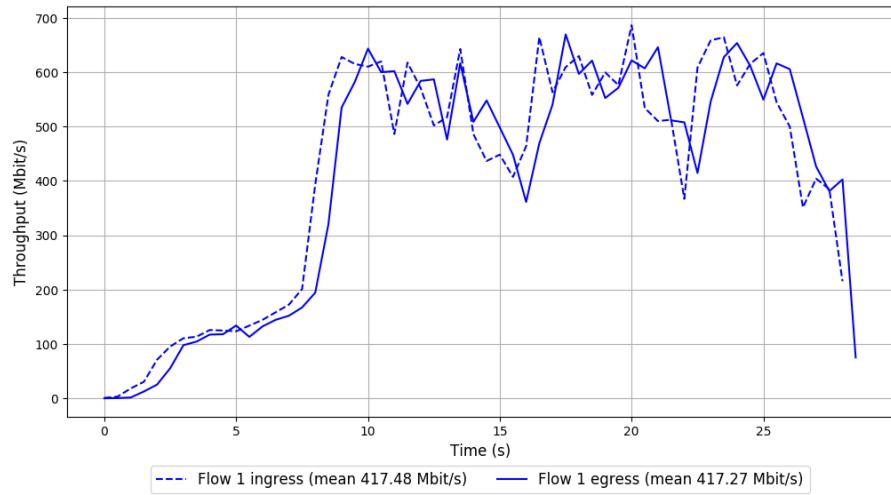


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 13:03:00
End at: 2019-06-27 13:03:30
Local clock offset: 0.046 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-06-27 14:55:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 417.27 Mbit/s
95th percentile per-packet one-way delay: 192.177 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 417.27 Mbit/s
95th percentile per-packet one-way delay: 192.177 ms
Loss rate: 1.00%
```

Run 4: Report of Indigo-MusesC5 — Data Link

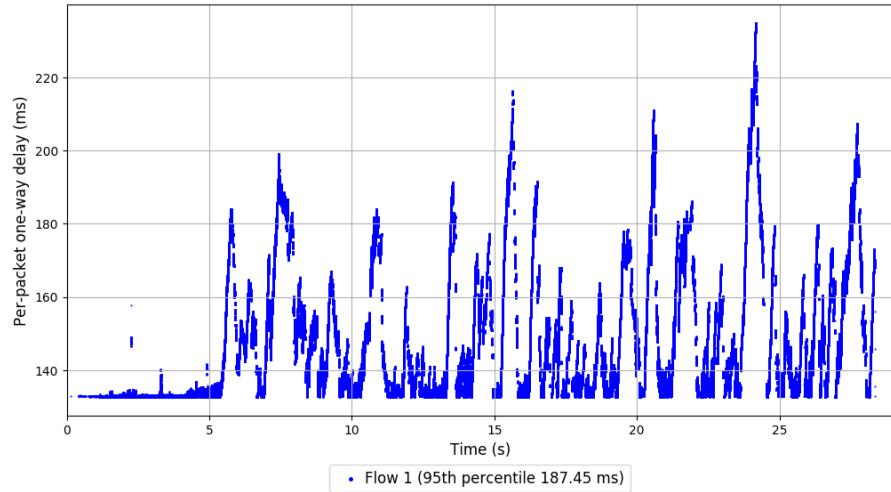
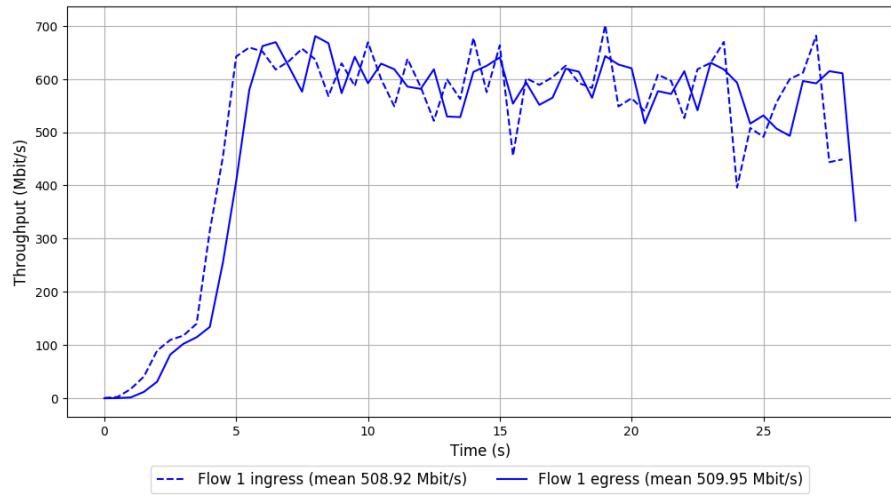


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 13:35:16
End at: 2019-06-27 13:35:46
Local clock offset: -0.239 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-06-27 14:58:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 509.95 Mbit/s
95th percentile per-packet one-way delay: 187.450 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 509.95 Mbit/s
95th percentile per-packet one-way delay: 187.450 ms
Loss rate: 0.73%
```

Run 5: Report of Indigo-MusesC5 — Data Link

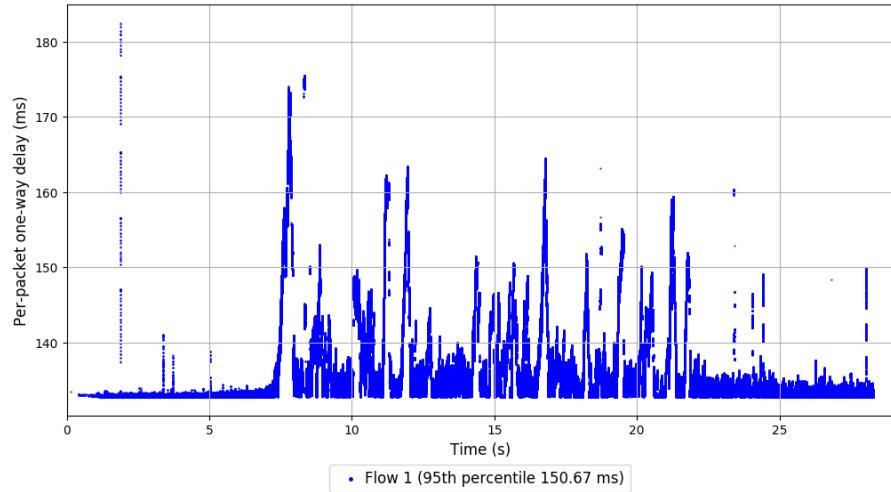
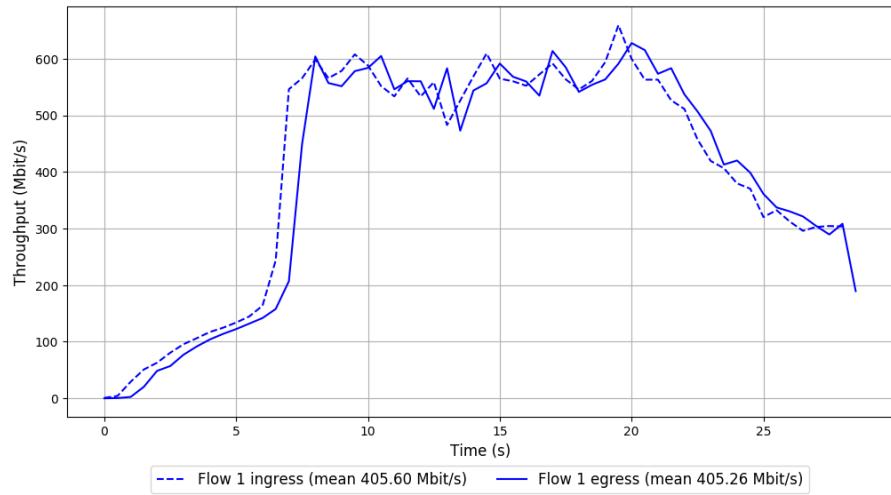


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 11:41:50
End at: 2019-06-27 11:42:20
Local clock offset: -0.058 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-06-27 14:58:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 405.26 Mbit/s
95th percentile per-packet one-way delay: 150.674 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 405.26 Mbit/s
95th percentile per-packet one-way delay: 150.674 ms
Loss rate: 1.04%
```

Run 1: Report of Indigo-MusesD — Data Link

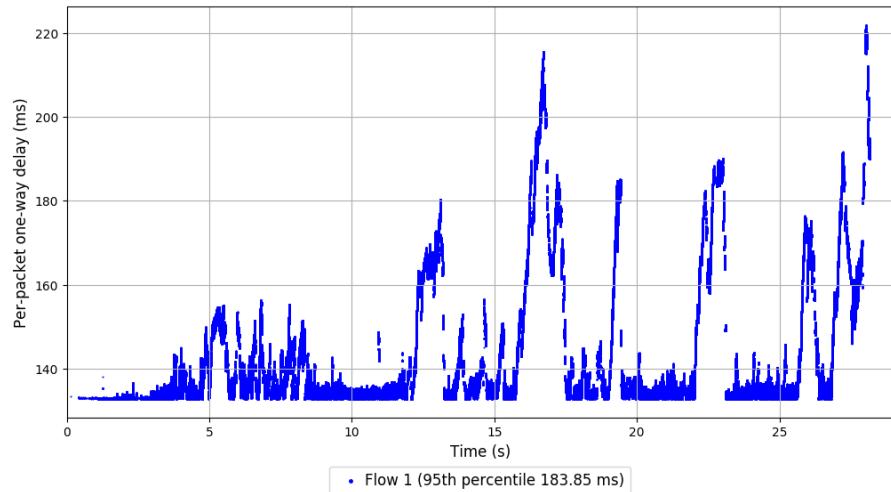
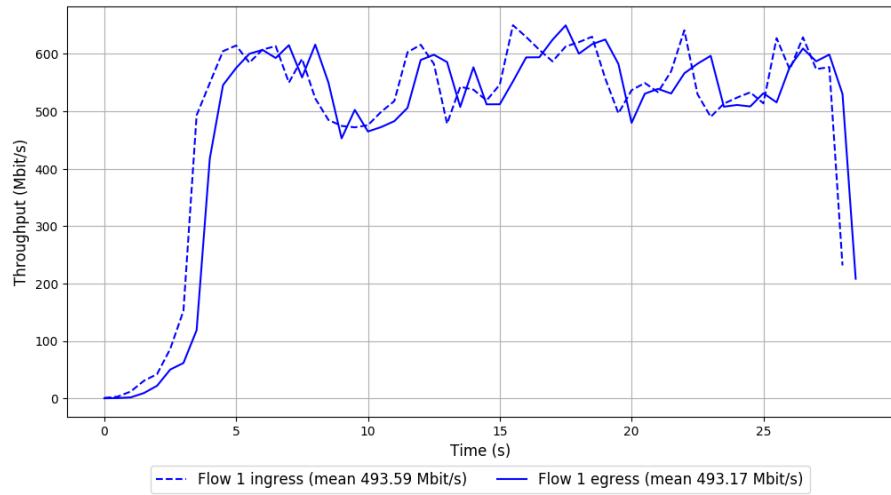


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 12:13:39
End at: 2019-06-27 12:14:09
Local clock offset: -0.211 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-06-27 14:59:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 493.17 Mbit/s
95th percentile per-packet one-way delay: 183.847 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 493.17 Mbit/s
95th percentile per-packet one-way delay: 183.847 ms
Loss rate: 1.03%
```

Run 2: Report of Indigo-MusesD — Data Link

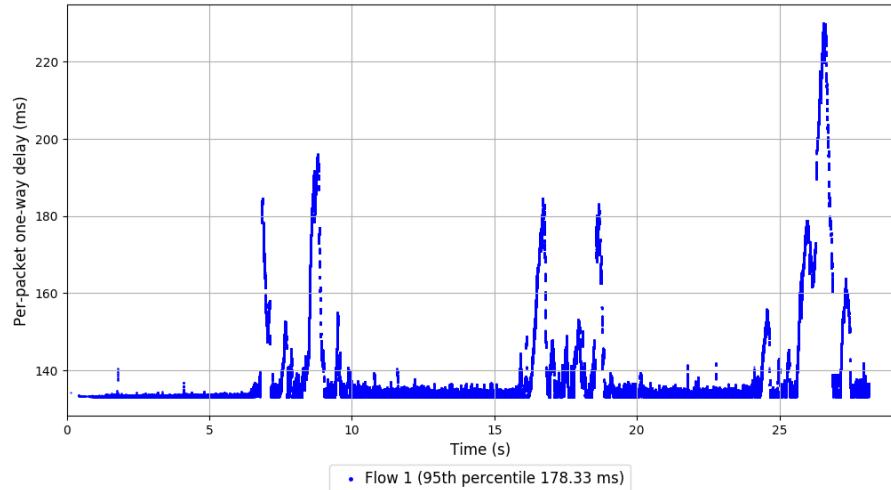
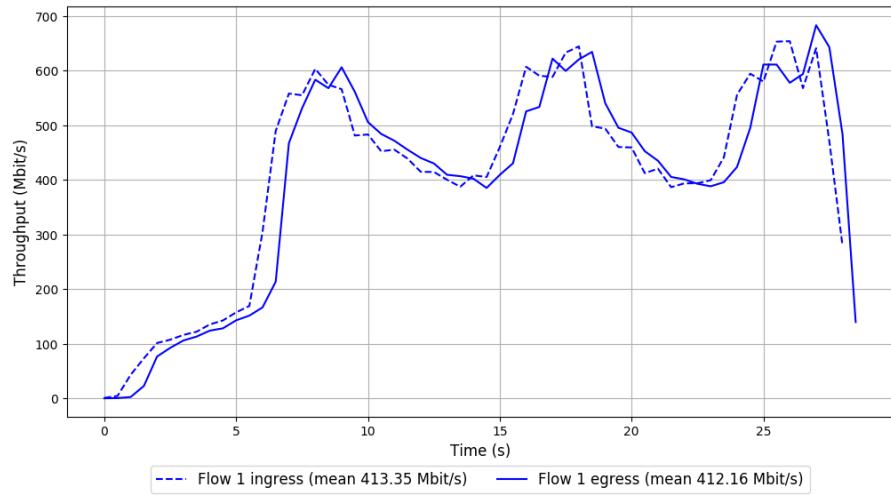


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 12:46:03
End at: 2019-06-27 12:46:33
Local clock offset: 0.181 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-06-27 14:59:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 412.16 Mbit/s
95th percentile per-packet one-way delay: 178.329 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 412.16 Mbit/s
95th percentile per-packet one-way delay: 178.329 ms
Loss rate: 1.23%
```

Run 3: Report of Indigo-MusesD — Data Link

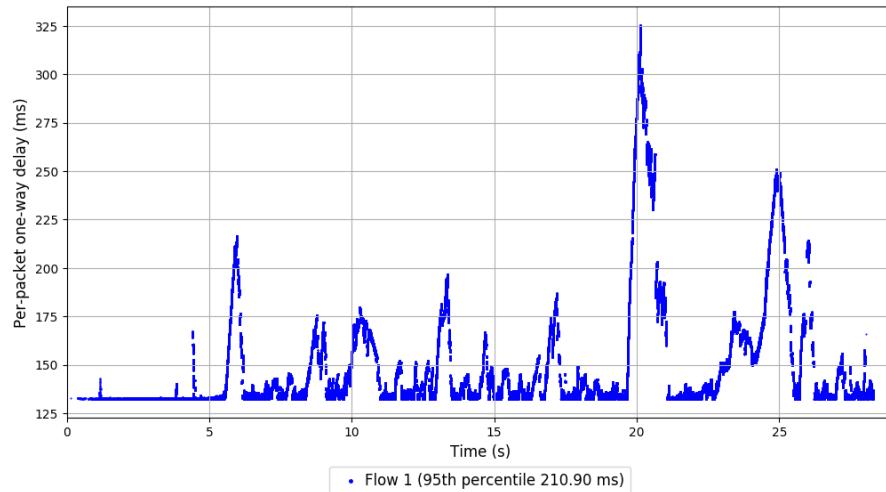
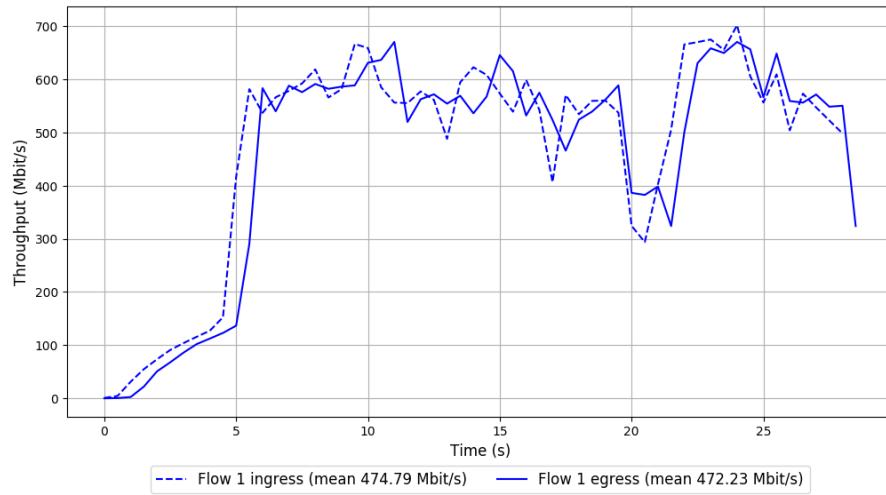


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 13:18:24
End at: 2019-06-27 13:18:54
Local clock offset: -0.37 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-06-27 15:00:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 472.23 Mbit/s
95th percentile per-packet one-way delay: 210.900 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 472.23 Mbit/s
95th percentile per-packet one-way delay: 210.900 ms
Loss rate: 1.48%
```

Run 4: Report of Indigo-MusesD — Data Link

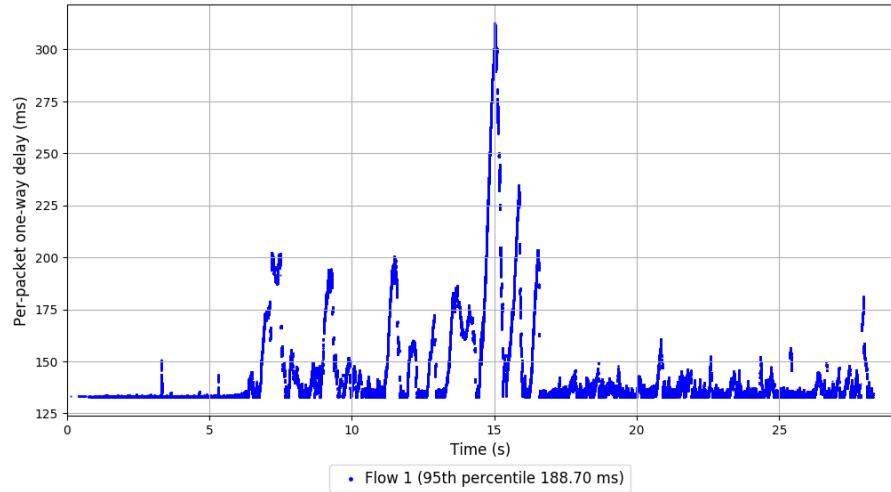
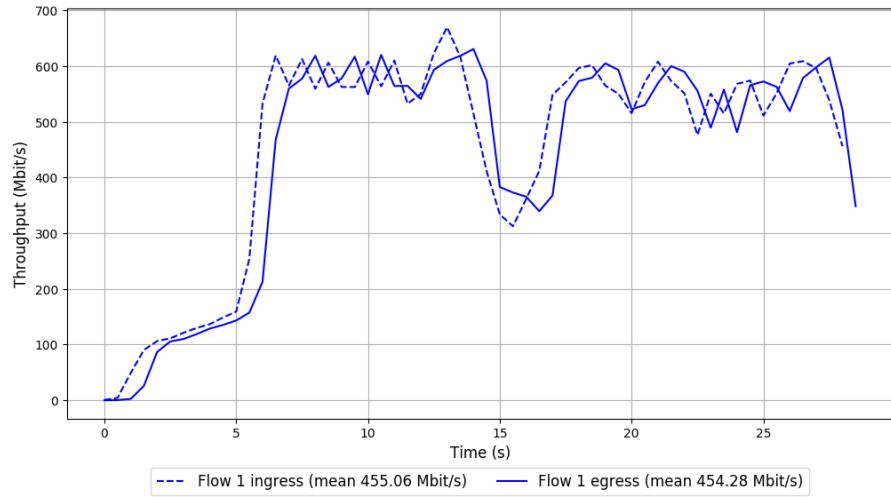


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 13:50:45
End at: 2019-06-27 13:51:15
Local clock offset: -0.0 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-06-27 15:00:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 454.28 Mbit/s
95th percentile per-packet one-way delay: 188.701 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 454.28 Mbit/s
95th percentile per-packet one-way delay: 188.701 ms
Loss rate: 1.11%
```

Run 5: Report of Indigo-MusesD — Data Link

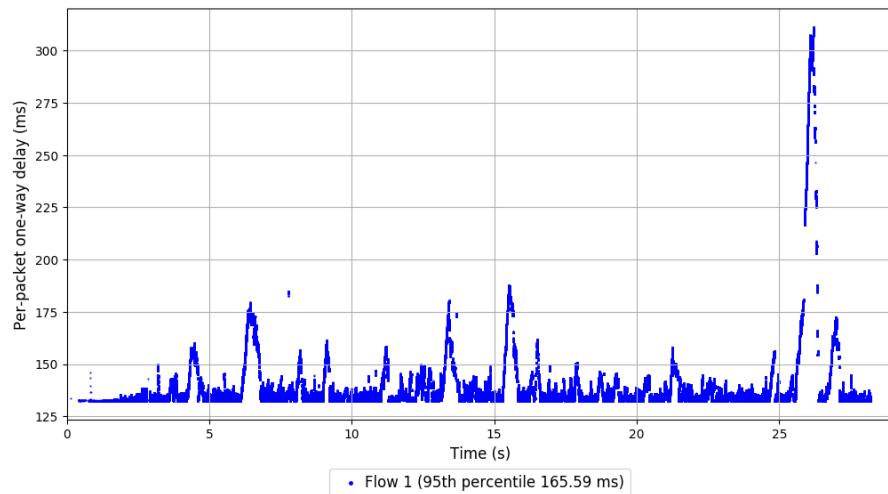
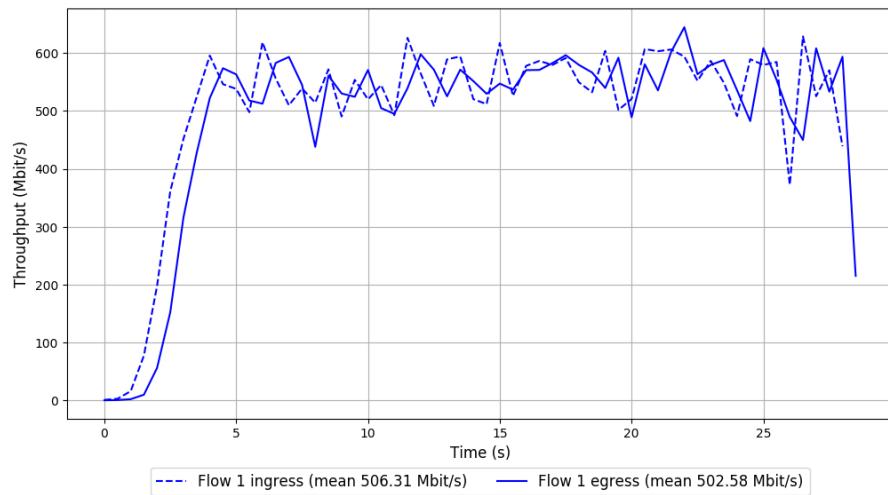


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 11:37:50
End at: 2019-06-27 11:38:20
Local clock offset: -0.109 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-06-27 15:03:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 502.58 Mbit/s
95th percentile per-packet one-way delay: 165.585 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 502.58 Mbit/s
95th percentile per-packet one-way delay: 165.585 ms
Loss rate: 1.67%
```

Run 1: Report of Indigo-MusesT — Data Link

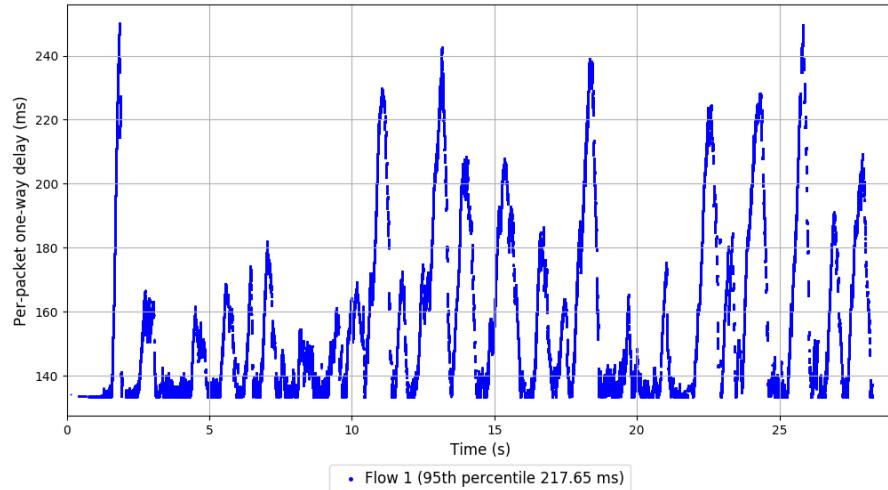
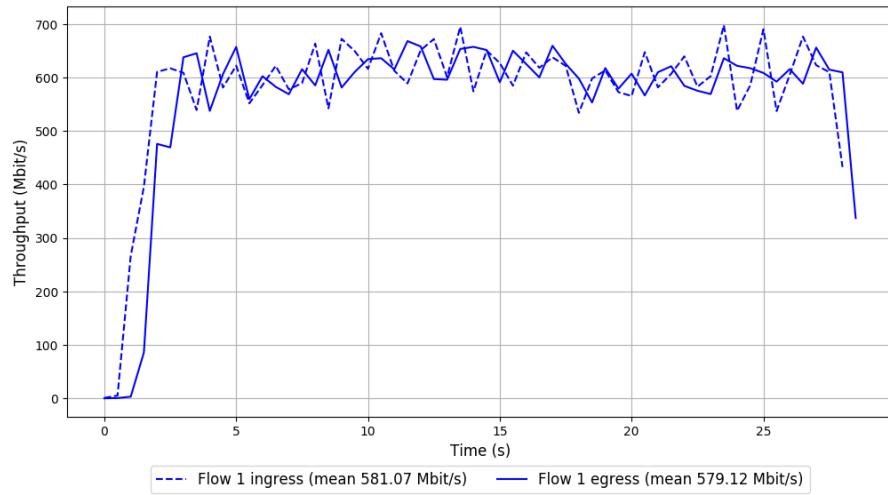


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 12:09:35
End at: 2019-06-27 12:10:05
Local clock offset: 0.307 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-06-27 15:06:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.12 Mbit/s
95th percentile per-packet one-way delay: 217.654 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 579.12 Mbit/s
95th percentile per-packet one-way delay: 217.654 ms
Loss rate: 1.28%
```

Run 2: Report of Indigo-MusesT — Data Link

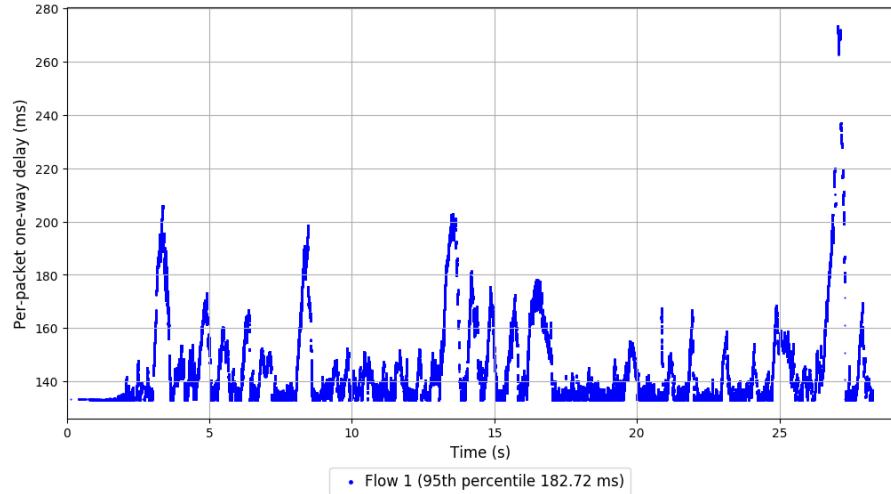
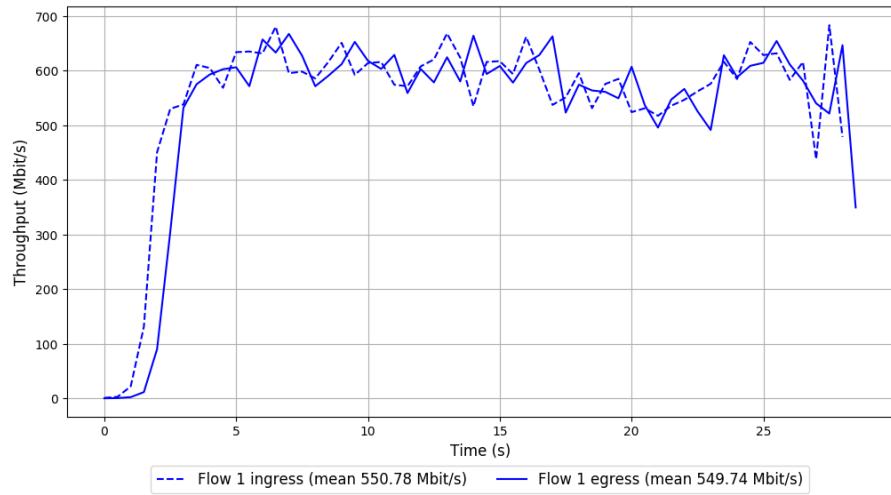


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 12:42:01
End at: 2019-06-27 12:42:31
Local clock offset: 0.218 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-06-27 15:07:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 549.74 Mbit/s
95th percentile per-packet one-way delay: 182.717 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 549.74 Mbit/s
95th percentile per-packet one-way delay: 182.717 ms
Loss rate: 1.12%
```

Run 3: Report of Indigo-MusesT — Data Link

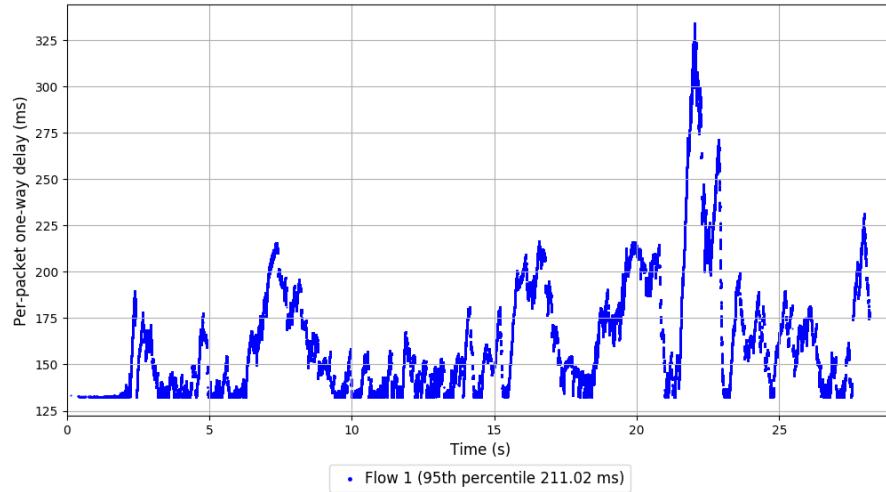
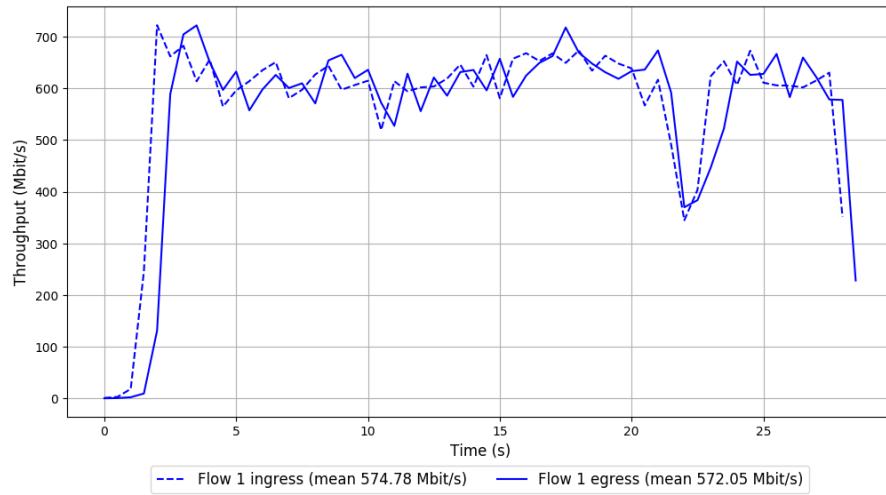


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 13:14:20
End at: 2019-06-27 13:14:50
Local clock offset: -0.26 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2019-06-27 15:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 572.05 Mbit/s
95th percentile per-packet one-way delay: 211.016 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 572.05 Mbit/s
95th percentile per-packet one-way delay: 211.016 ms
Loss rate: 1.42%
```

Run 4: Report of Indigo-MusesT — Data Link

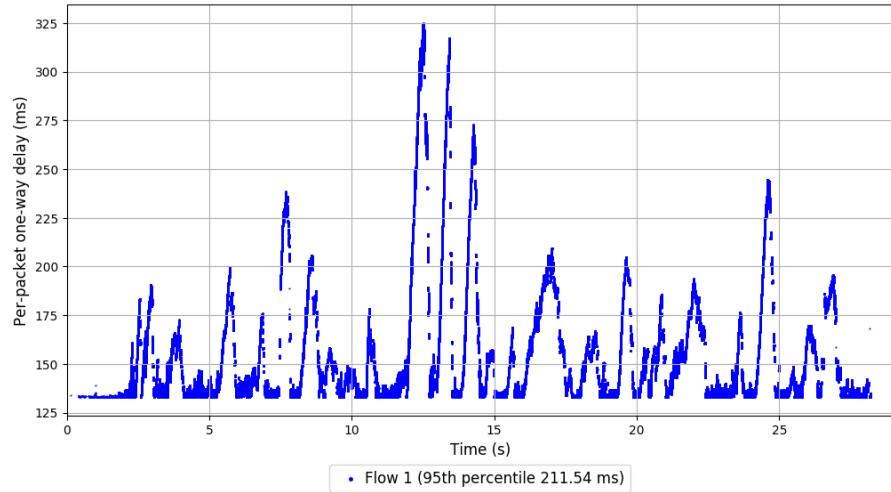
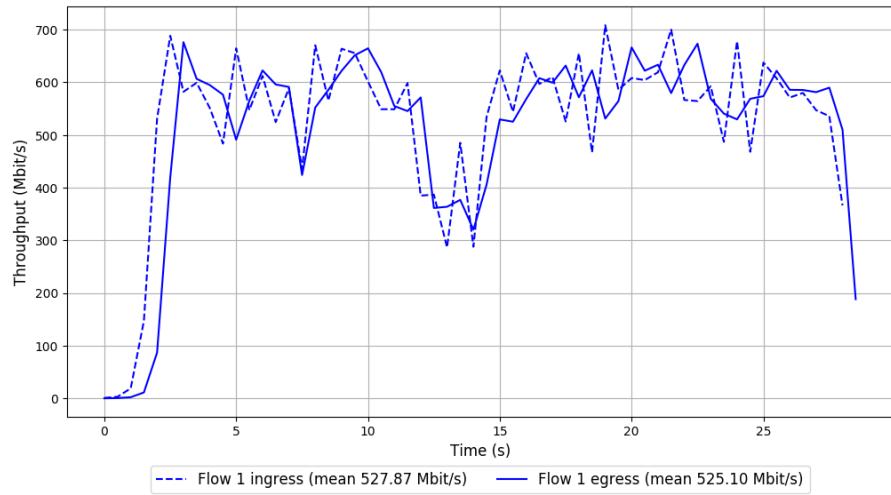


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 13:46:44
End at: 2019-06-27 13:47:14
Local clock offset: 0.118 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-06-27 15:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 525.10 Mbit/s
95th percentile per-packet one-way delay: 211.543 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 525.10 Mbit/s
95th percentile per-packet one-way delay: 211.543 ms
Loss rate: 1.47%
```

Run 5: Report of Indigo-MusesT — Data Link

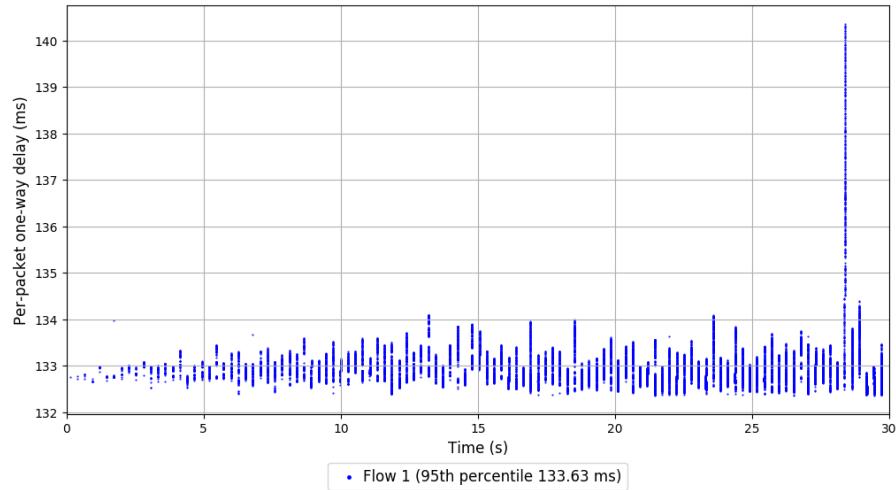
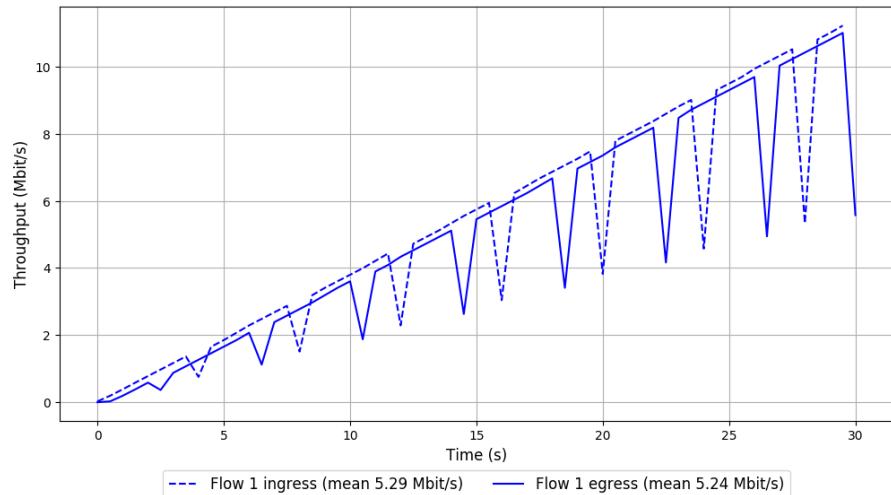


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-06-27 11:33:59
End at: 2019-06-27 11:34:30
Local clock offset: -0.009 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-06-27 15:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 133.633 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 133.633 ms
Loss rate: 1.79%
```

Run 1: Report of LEDBAT — Data Link

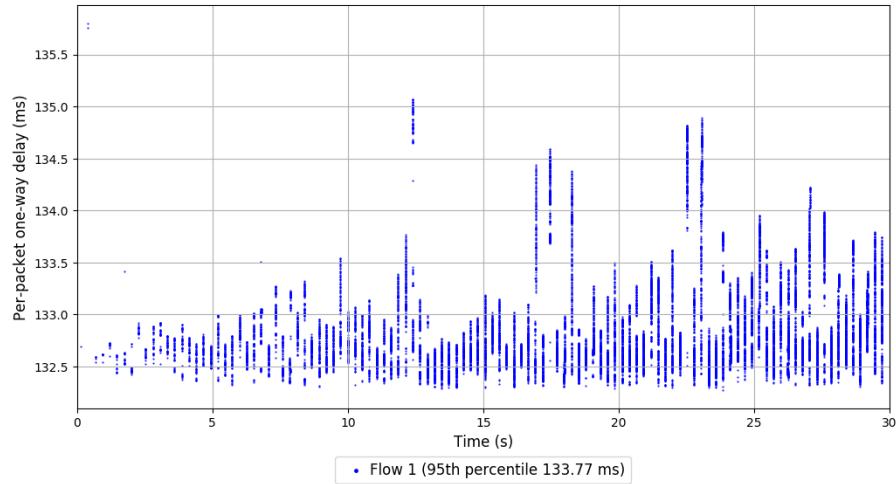
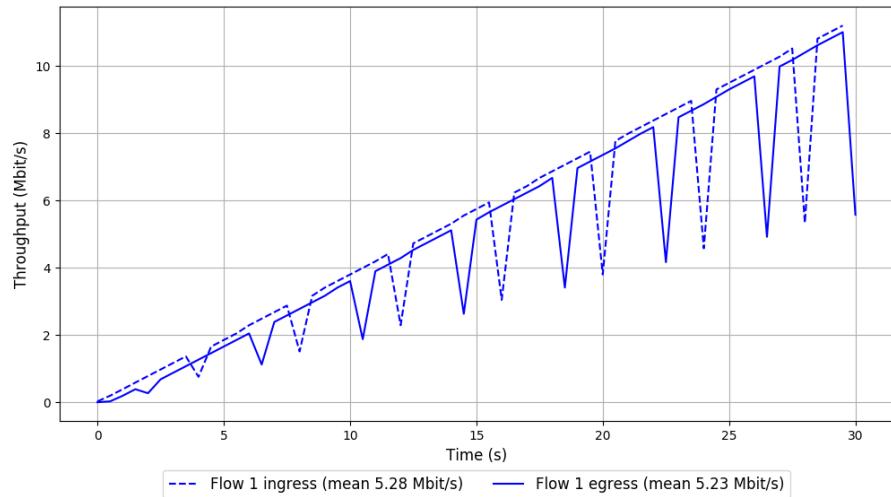


Run 2: Statistics of LEDBAT

```
Start at: 2019-06-27 12:05:43
End at: 2019-06-27 12:06:13
Local clock offset: 0.025 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-06-27 15:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.772 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 133.772 ms
Loss rate: 1.78%
```

Run 2: Report of LEDBAT — Data Link

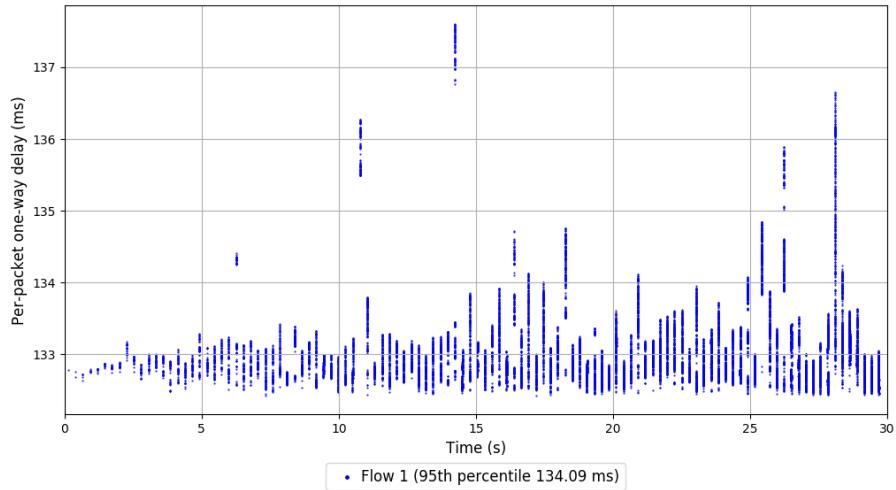
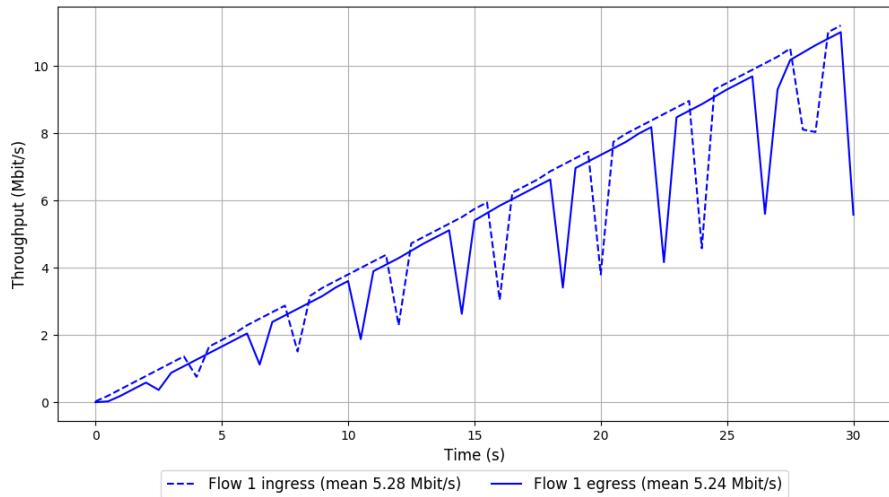


Run 3: Statistics of LEDBAT

```
Start at: 2019-06-27 12:38:09
End at: 2019-06-27 12:38:39
Local clock offset: -0.491 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-06-27 15:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 134.089 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 134.089 ms
Loss rate: 1.78%
```

Run 3: Report of LEDBAT — Data Link

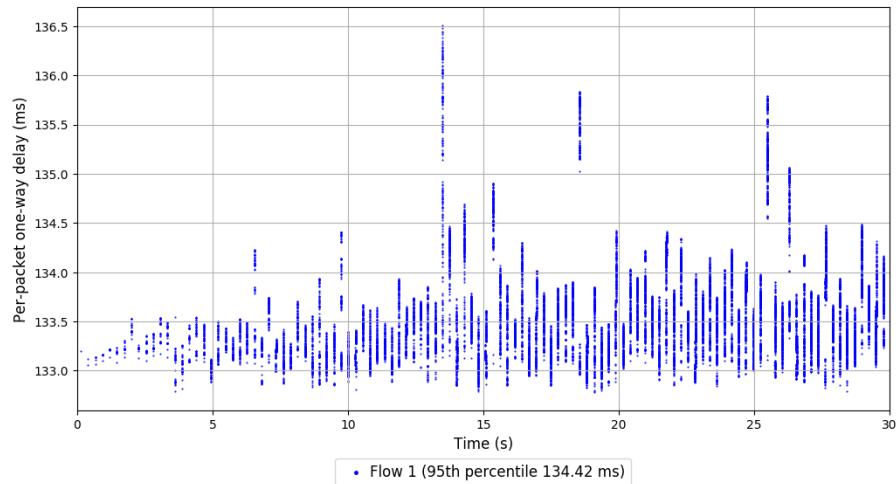
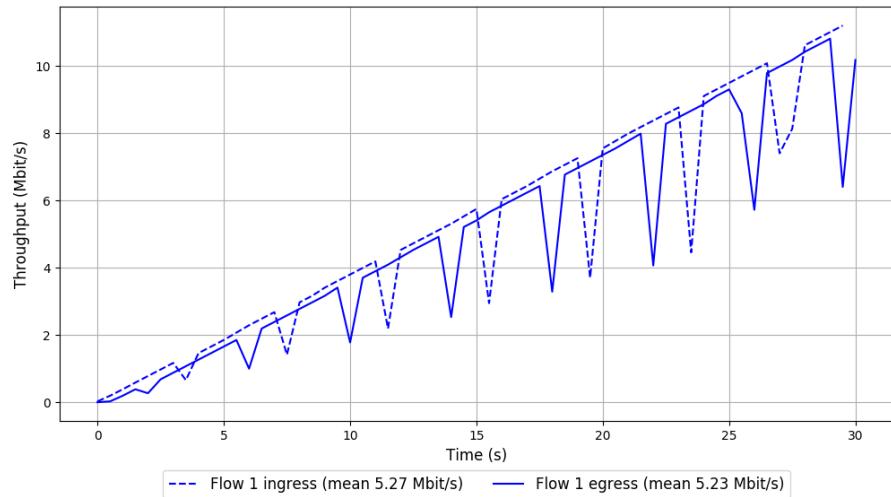


Run 4: Statistics of LEDBAT

```
Start at: 2019-06-27 13:10:29
End at: 2019-06-27 13:10:59
Local clock offset: -0.186 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-06-27 15:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 134.422 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 134.422 ms
Loss rate: 1.78%
```

Run 4: Report of LEDBAT — Data Link

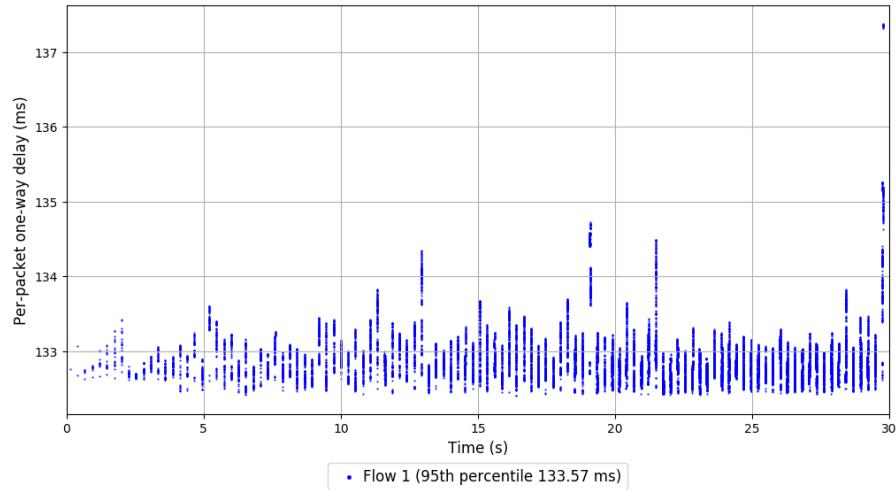
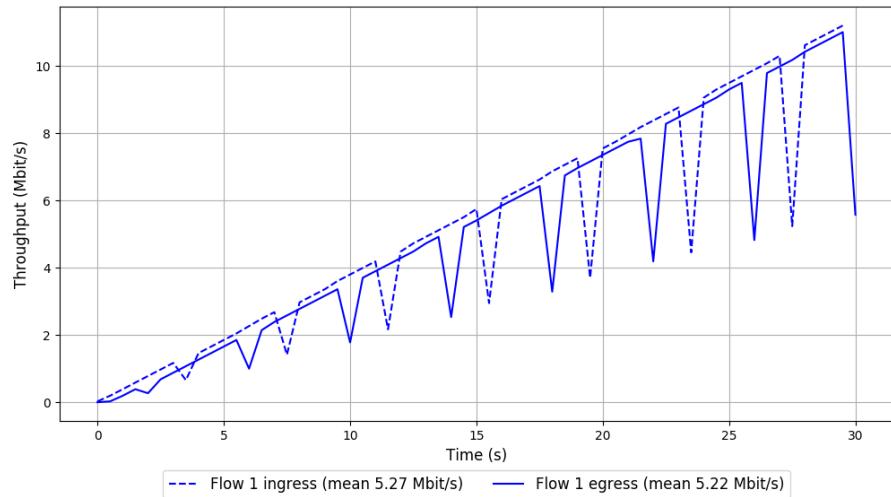


Run 5: Statistics of LEDBAT

```
Start at: 2019-06-27 13:42:56
End at: 2019-06-27 13:43:26
Local clock offset: 0.058 ms
Remote clock offset: 0.331 ms

# Below is generated by plot.py at 2019-06-27 15:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 133.571 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 133.571 ms
Loss rate: 1.79%
```

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-06-27 11:45:01

End at: 2019-06-27 11:45:31

Local clock offset: -0.059 ms

Remote clock offset: -0.087 ms

Run 1: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses_DecisionTree

Start at: 2019-06-27 12:16:56
End at: 2019-06-27 12:17:26
Local clock offset: 0.236 ms
Remote clock offset: -0.044 ms

Run 2: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses_DecisionTree

Start at: 2019-06-27 12:49:16
End at: 2019-06-27 12:49:46
Local clock offset: 0.21 ms
Remote clock offset: -0.037 ms

Run 3: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses_DecisionTree

Start at: 2019-06-27 13:21:43

End at: 2019-06-27 13:22:13

Local clock offset: 0.073 ms

Remote clock offset: 0.011 ms

Run 4: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses_DecisionTree

Start at: 2019-06-27 13:54:00

End at: 2019-06-27 13:54:30

Local clock offset: 0.312 ms

Remote clock offset: 0.303 ms

Run 5: Report of Muses_DecisionTree — Data Link

Figure is missing

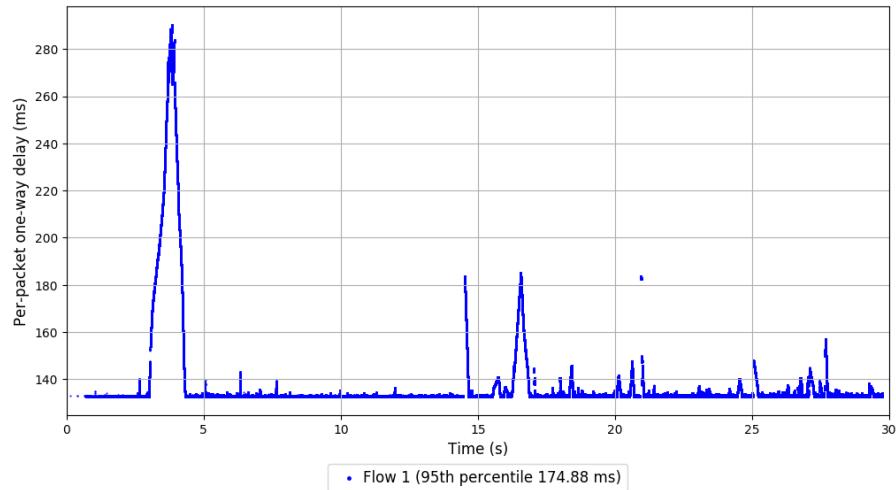
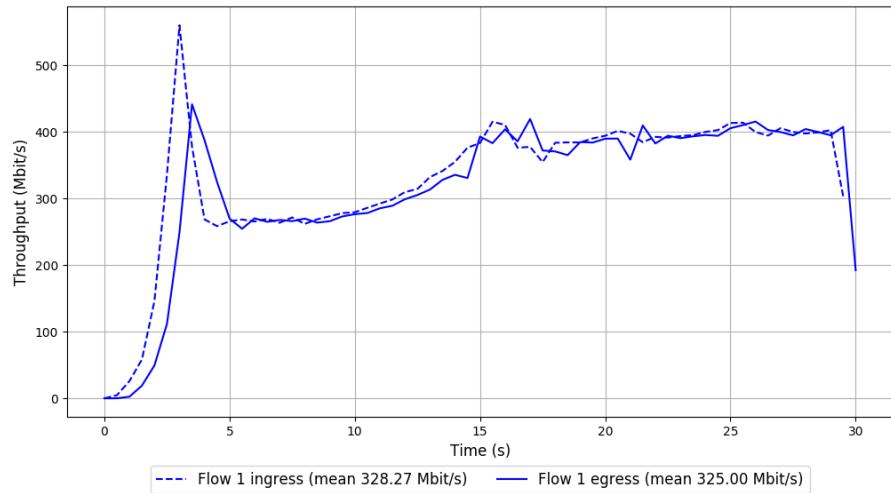
Figure is missing

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

```
Start at: 2019-06-27 11:30:39
End at: 2019-06-27 11:31:09
Local clock offset: -0.115 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-06-27 15:11:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.00 Mbit/s
95th percentile per-packet one-way delay: 174.878 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 325.00 Mbit/s
95th percentile per-packet one-way delay: 174.878 ms
Loss rate: 1.88%
```

Run 1: Report of PCC-Allegro — Data Link

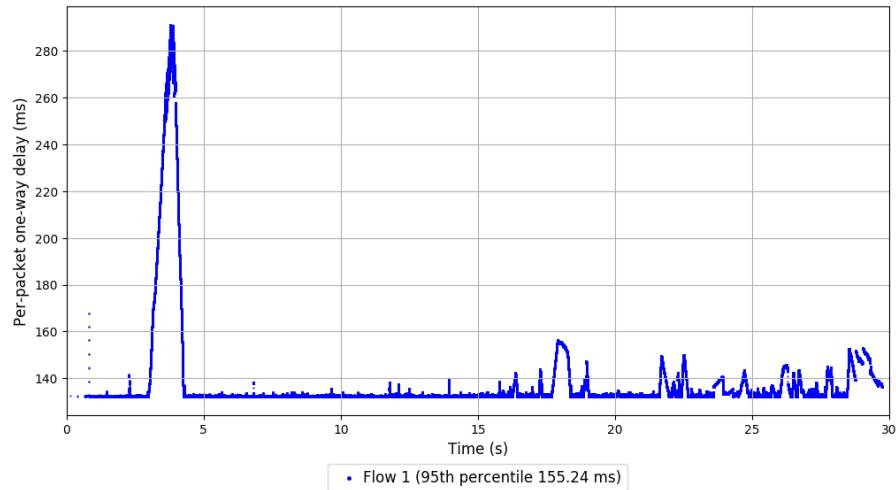
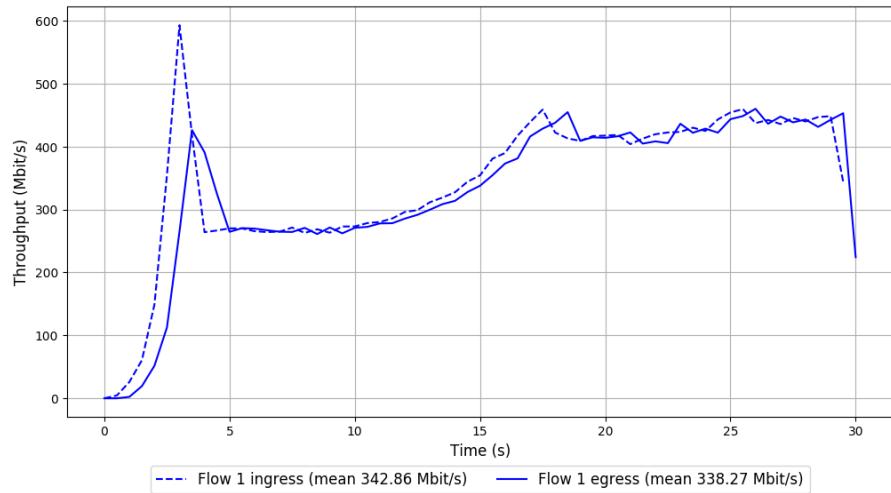


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-06-27 12:02:52
End at: 2019-06-27 12:03:22
Local clock offset: -0.028 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-06-27 15:12:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.27 Mbit/s
95th percentile per-packet one-way delay: 155.242 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 338.27 Mbit/s
95th percentile per-packet one-way delay: 155.242 ms
Loss rate: 2.22%
```

Run 2: Report of PCC-Allegro — Data Link

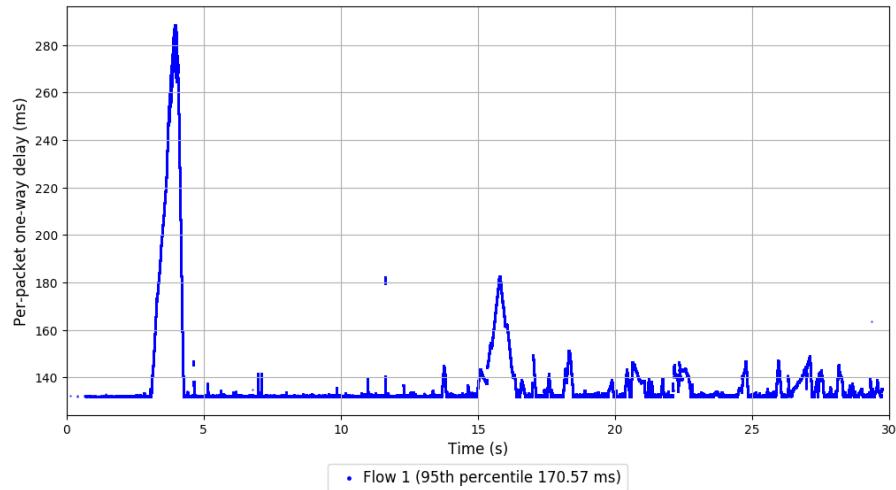
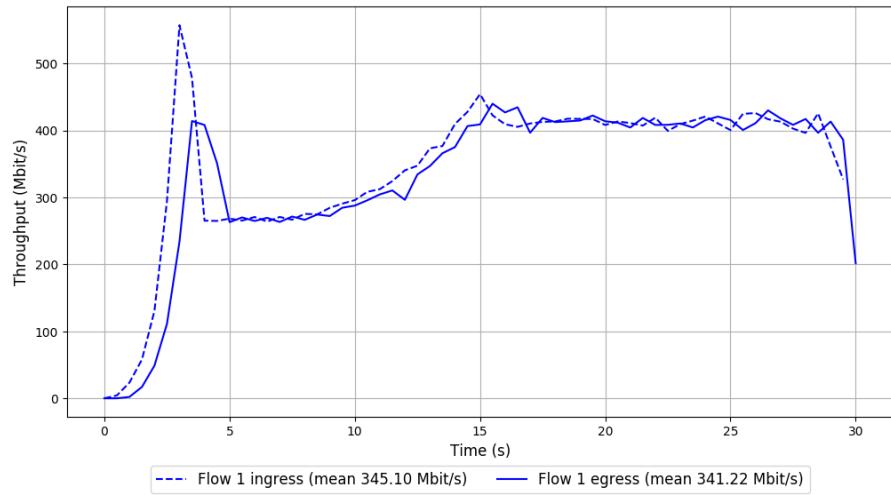


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-06-27 12:34:48
End at: 2019-06-27 12:35:18
Local clock offset: -0.027 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-06-27 15:13:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.22 Mbit/s
95th percentile per-packet one-way delay: 170.575 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 341.22 Mbit/s
95th percentile per-packet one-way delay: 170.575 ms
Loss rate: 2.00%
```

Run 3: Report of PCC-Allegro — Data Link

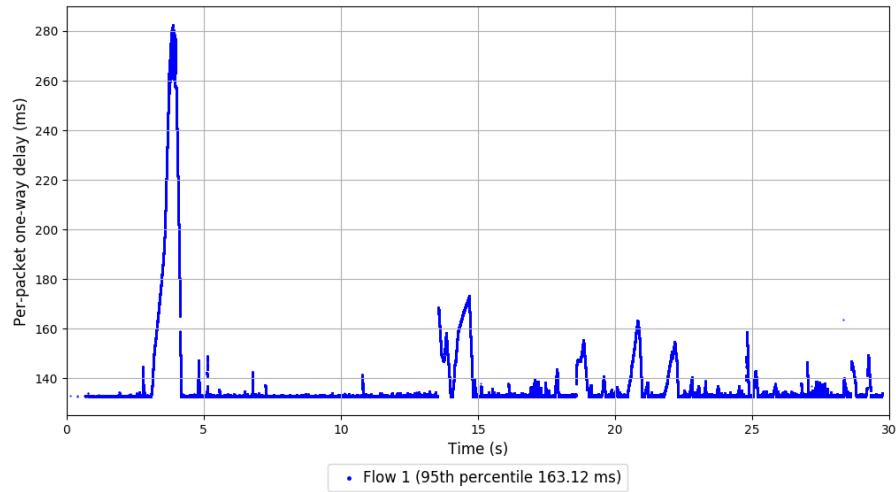
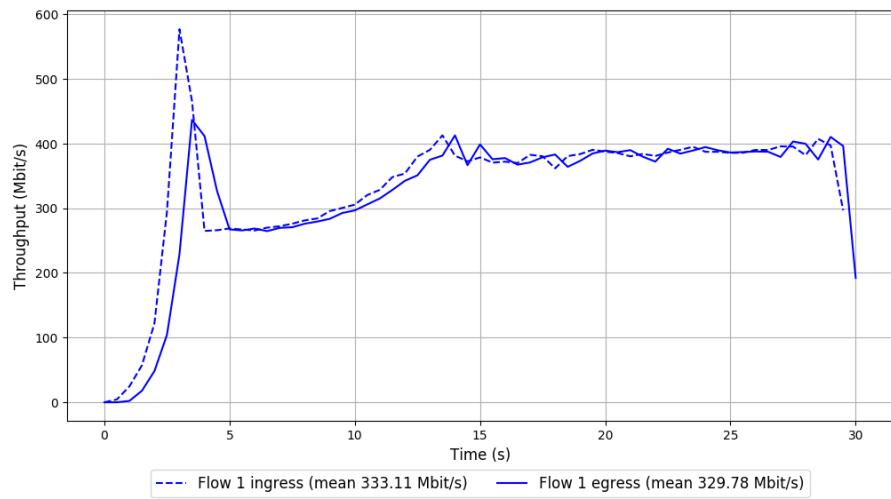


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-06-27 13:07:10
End at: 2019-06-27 13:07:40
Local clock offset: -0.168 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2019-06-27 15:17:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 329.78 Mbit/s
95th percentile per-packet one-way delay: 163.120 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 329.78 Mbit/s
95th percentile per-packet one-way delay: 163.120 ms
Loss rate: 1.89%
```

Run 4: Report of PCC-Allegro — Data Link

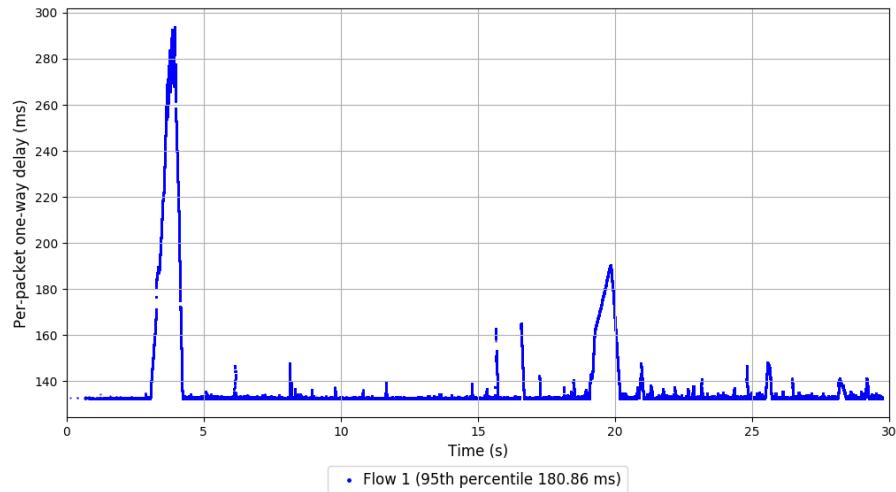
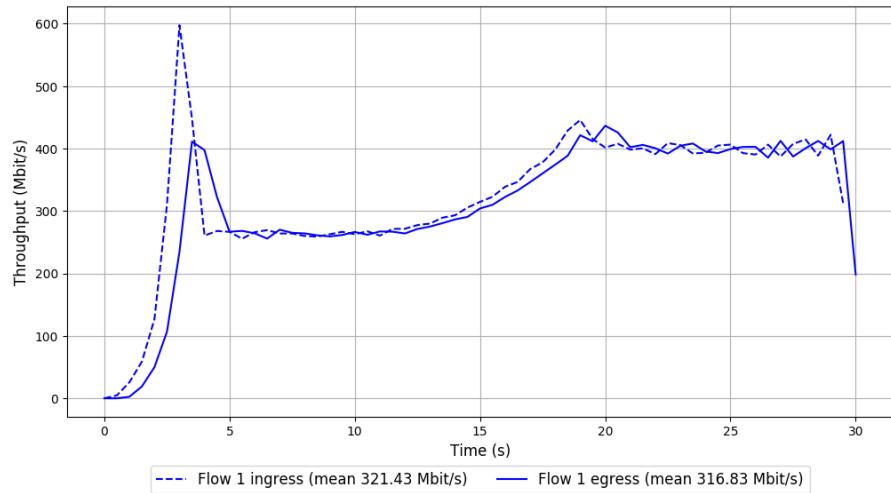


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-06-27 13:39:37
End at: 2019-06-27 13:40:07
Local clock offset: -0.463 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-06-27 15:18:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 316.83 Mbit/s
95th percentile per-packet one-way delay: 180.857 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 316.83 Mbit/s
95th percentile per-packet one-way delay: 180.857 ms
Loss rate: 2.31%
```

Run 5: Report of PCC-Allegro — Data Link

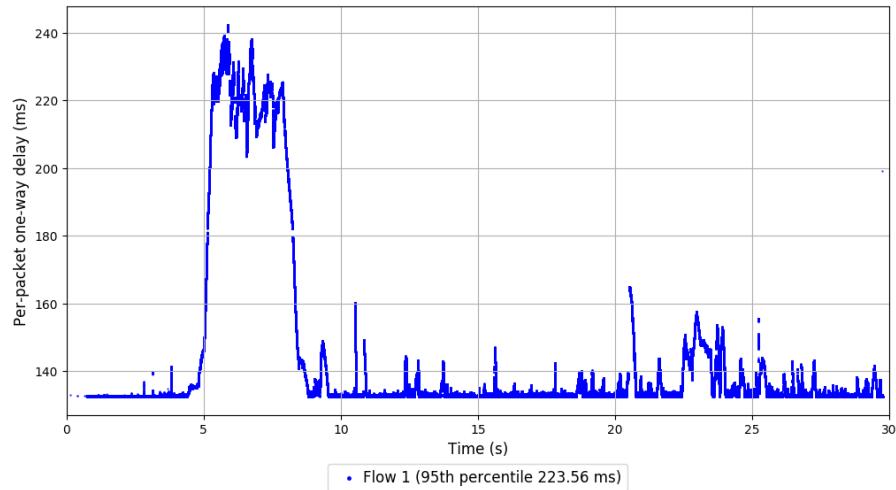
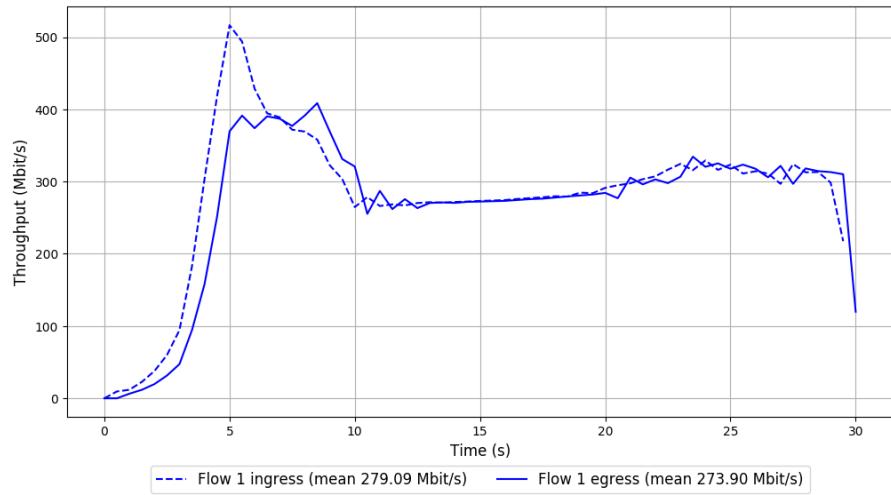


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-06-27 11:15:23
End at: 2019-06-27 11:15:53
Local clock offset: -0.367 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-06-27 15:18:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 273.90 Mbit/s
95th percentile per-packet one-way delay: 223.559 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 273.90 Mbit/s
95th percentile per-packet one-way delay: 223.559 ms
Loss rate: 2.74%
```

Run 1: Report of PCC-Expr — Data Link

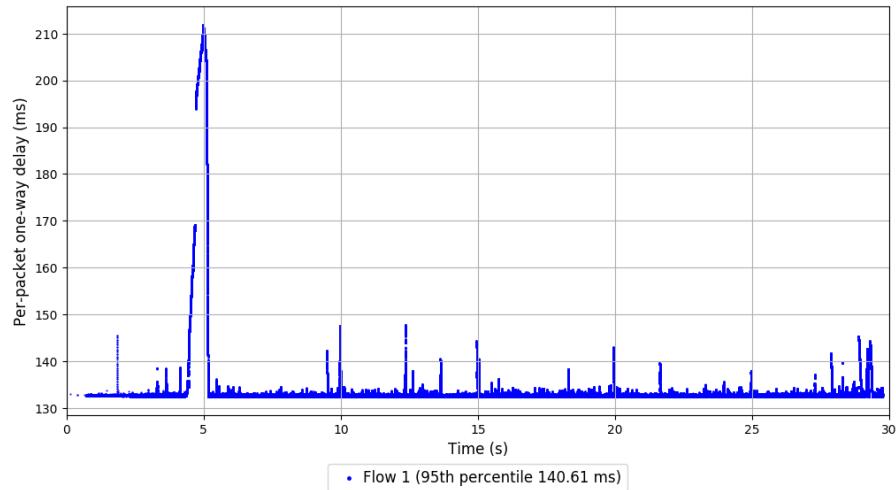
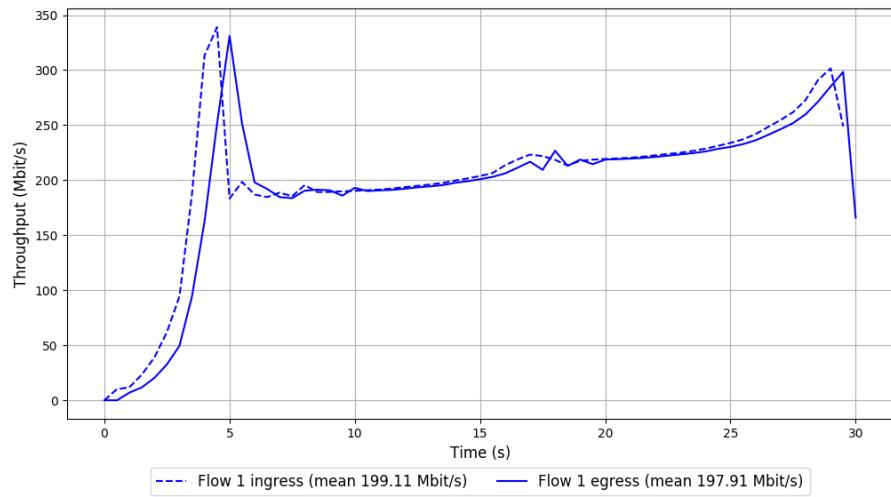


Run 2: Statistics of PCC-Expr

```
Start at: 2019-06-27 11:47:51
End at: 2019-06-27 11:48:21
Local clock offset: 0.192 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-06-27 15:18:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.91 Mbit/s
95th percentile per-packet one-way delay: 140.609 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 197.91 Mbit/s
95th percentile per-packet one-way delay: 140.609 ms
Loss rate: 1.49%
```

Run 2: Report of PCC-Expr — Data Link

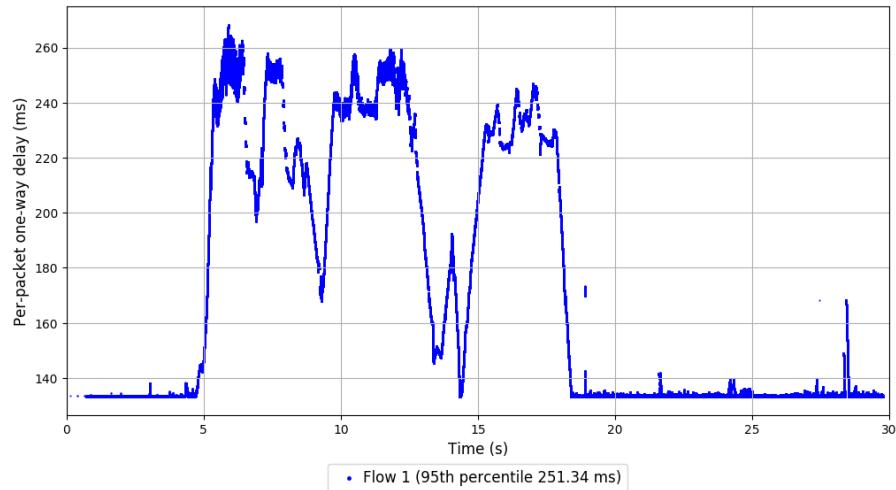
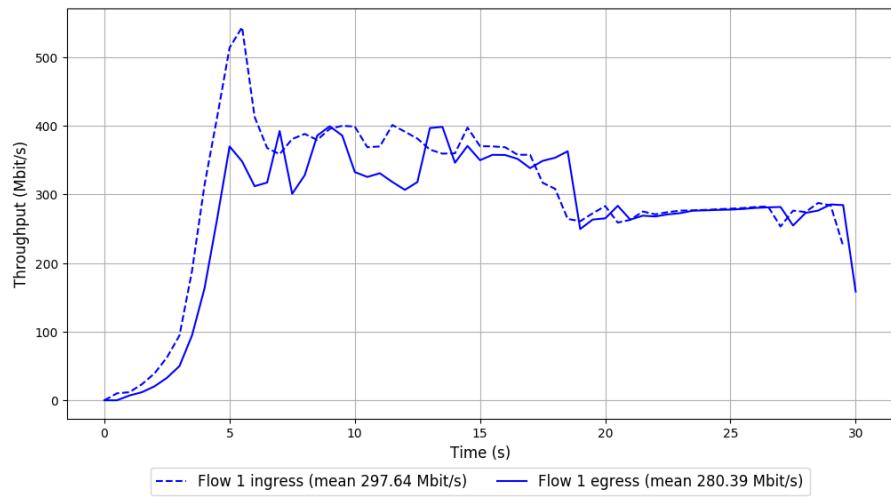


Run 3: Statistics of PCC-Expr

```
Start at: 2019-06-27 12:19:41
End at: 2019-06-27 12:20:11
Local clock offset: 0.366 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-06-27 15:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 280.39 Mbit/s
95th percentile per-packet one-way delay: 251.344 ms
Loss rate: 6.63%
-- Flow 1:
Average throughput: 280.39 Mbit/s
95th percentile per-packet one-way delay: 251.344 ms
Loss rate: 6.63%
```

Run 3: Report of PCC-Expr — Data Link

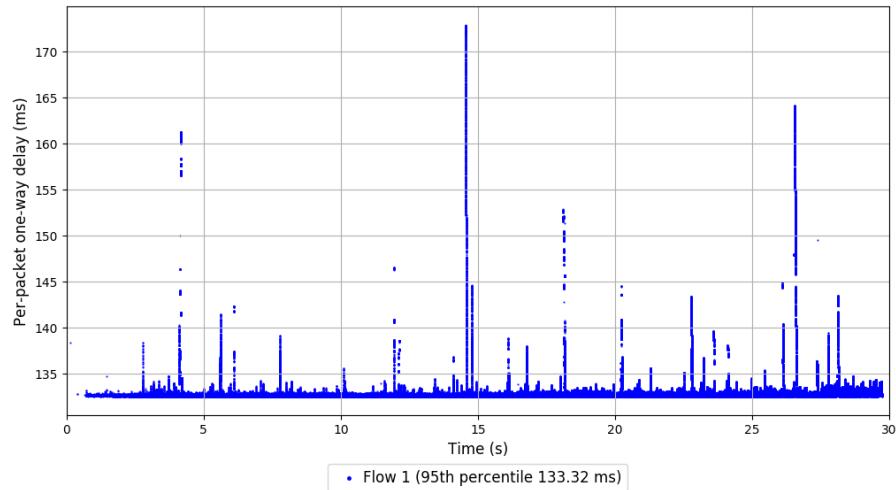
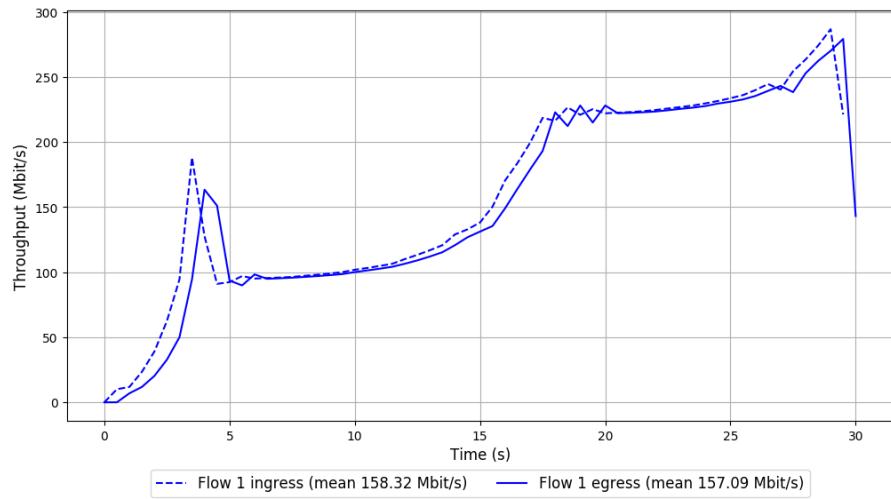


Run 4: Statistics of PCC-Expr

```
Start at: 2019-06-27 12:52:09
End at: 2019-06-27 12:52:39
Local clock offset: -0.164 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-06-27 15:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.09 Mbit/s
95th percentile per-packet one-way delay: 133.323 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 157.09 Mbit/s
95th percentile per-packet one-way delay: 133.323 ms
Loss rate: 1.68%
```

Run 4: Report of PCC-Expr — Data Link

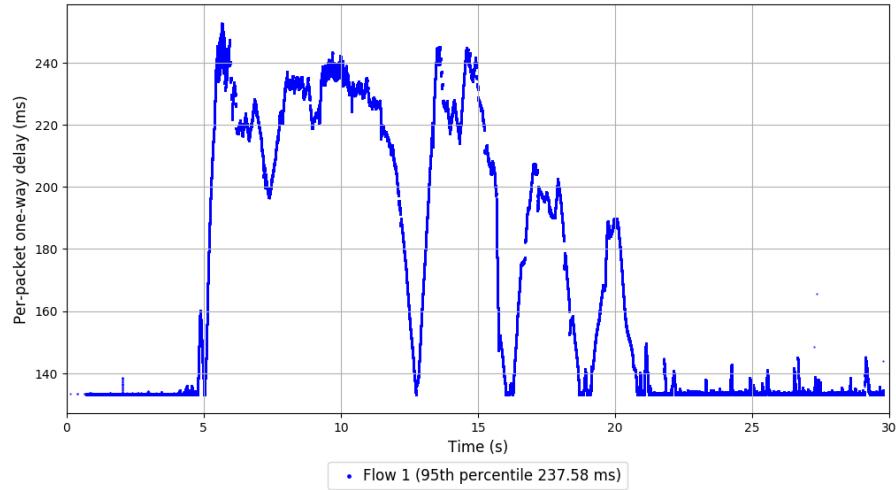
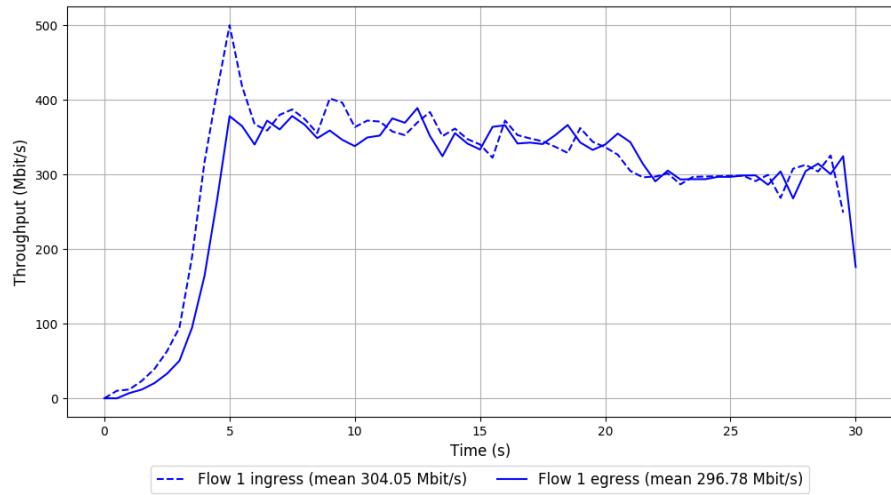


Run 5: Statistics of PCC-Expr

```
Start at: 2019-06-27 13:24:36
End at: 2019-06-27 13:25:06
Local clock offset: 0.073 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 296.78 Mbit/s
95th percentile per-packet one-way delay: 237.578 ms
Loss rate: 3.24%
-- Flow 1:
Average throughput: 296.78 Mbit/s
95th percentile per-packet one-way delay: 237.578 ms
Loss rate: 3.24%
```

Run 5: Report of PCC-Expr — Data Link

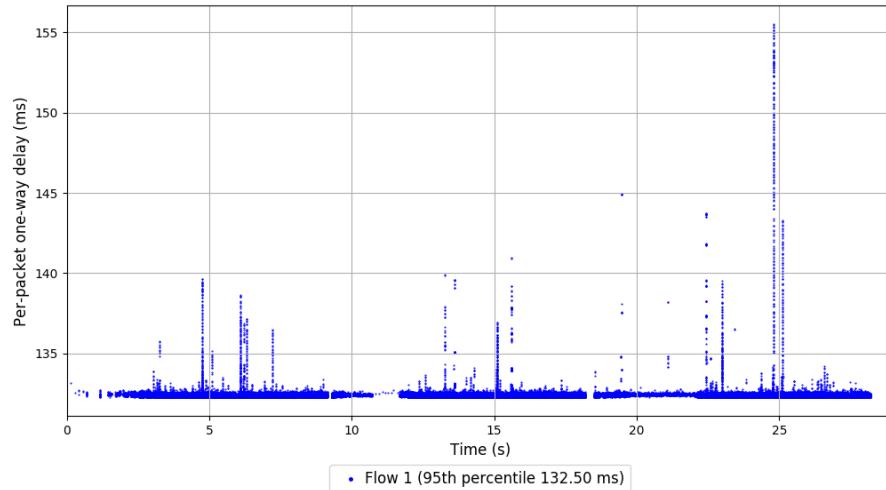
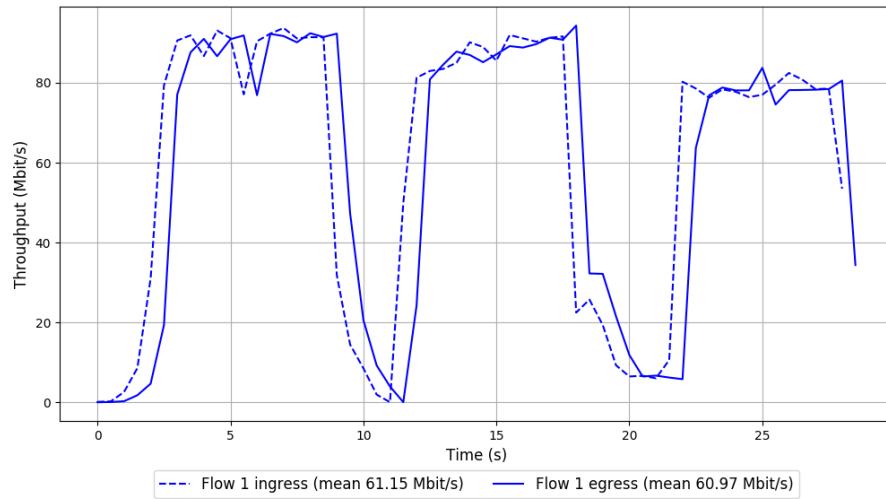


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-06-27 11:27:59
End at: 2019-06-27 11:28:29
Local clock offset: 0.278 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.97 Mbit/s
95th percentile per-packet one-way delay: 132.502 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 60.97 Mbit/s
95th percentile per-packet one-way delay: 132.502 ms
Loss rate: 1.22%
```

Run 1: Report of QUIC Cubic — Data Link

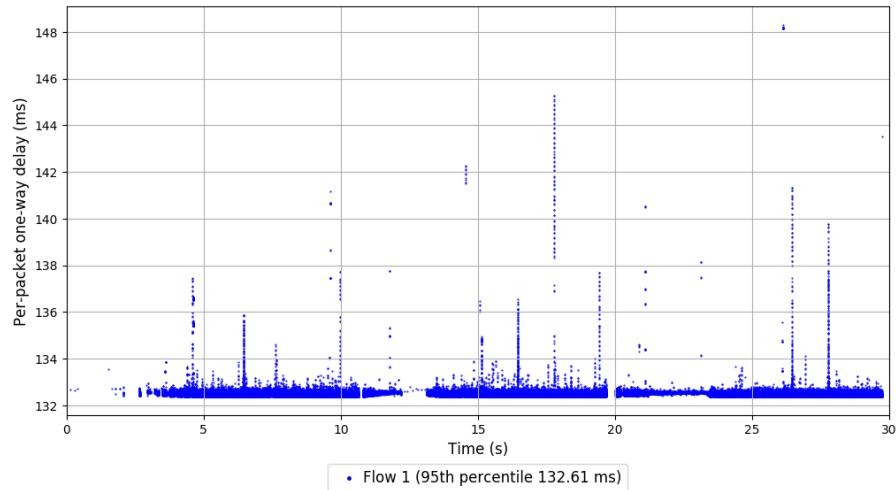
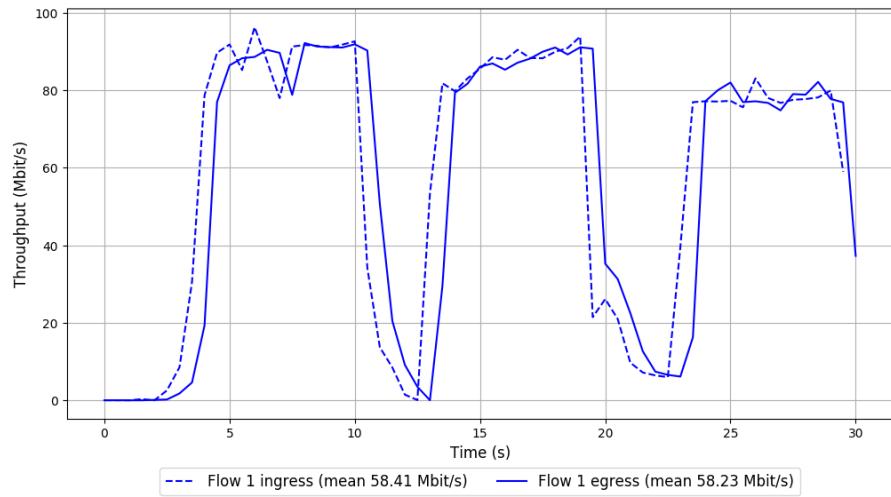


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-06-27 12:00:09
End at: 2019-06-27 12:00:39
Local clock offset: -0.367 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.23 Mbit/s
95th percentile per-packet one-way delay: 132.611 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 58.23 Mbit/s
95th percentile per-packet one-way delay: 132.611 ms
Loss rate: 1.21%
```

Run 2: Report of QUIC Cubic — Data Link

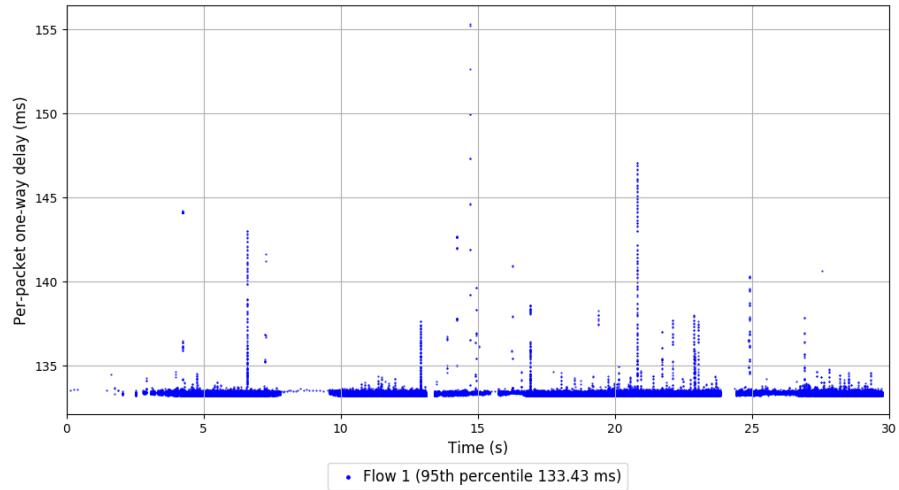
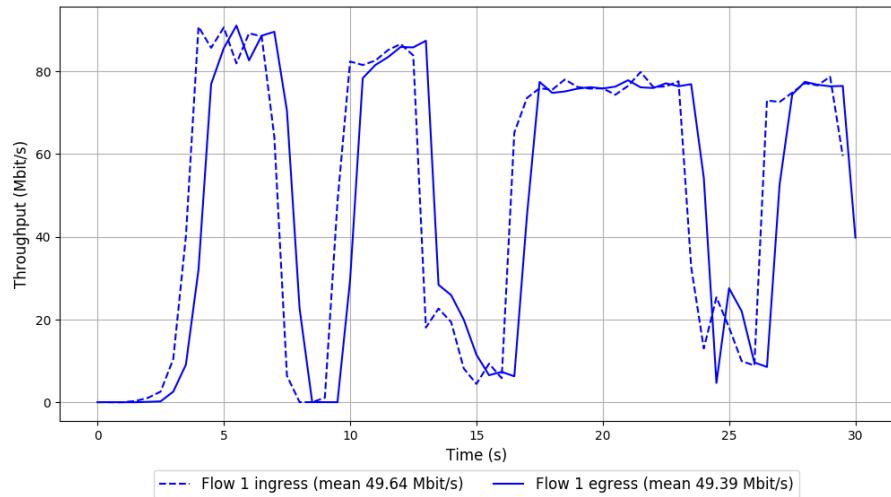


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-06-27 12:32:08
End at: 2019-06-27 12:32:38
Local clock offset: 0.364 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.39 Mbit/s
95th percentile per-packet one-way delay: 133.428 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 49.39 Mbit/s
95th percentile per-packet one-way delay: 133.428 ms
Loss rate: 1.39%
```

Run 3: Report of QUIC Cubic — Data Link

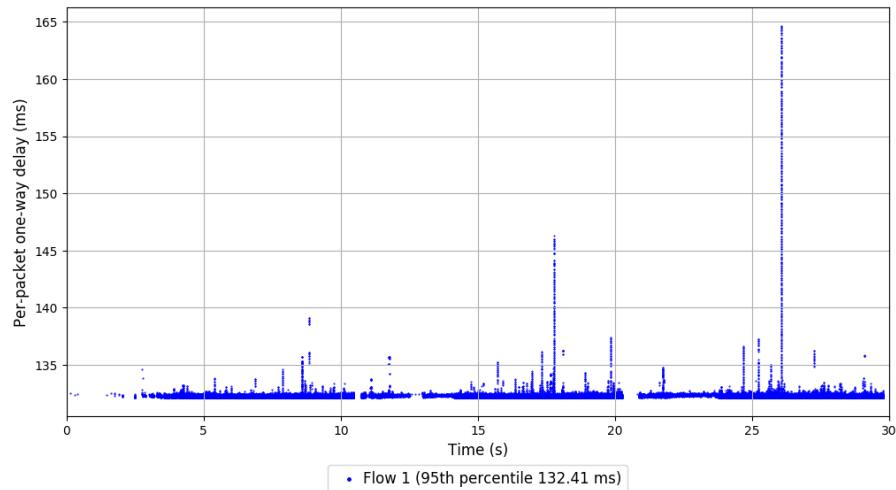
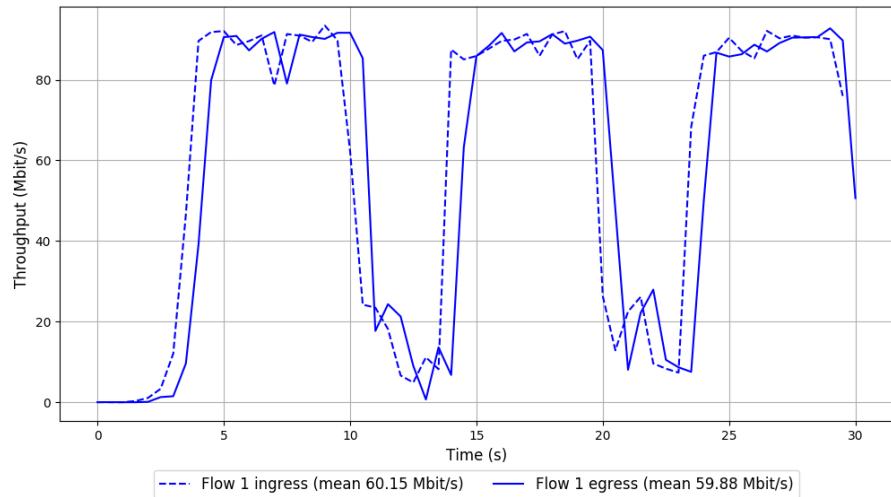


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-06-27 13:04:34
End at: 2019-06-27 13:05:04
Local clock offset: -0.227 ms
Remote clock offset: 0.37 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.88 Mbit/s
95th percentile per-packet one-way delay: 132.408 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 59.88 Mbit/s
95th percentile per-packet one-way delay: 132.408 ms
Loss rate: 1.33%
```

Run 4: Report of QUIC Cubic — Data Link

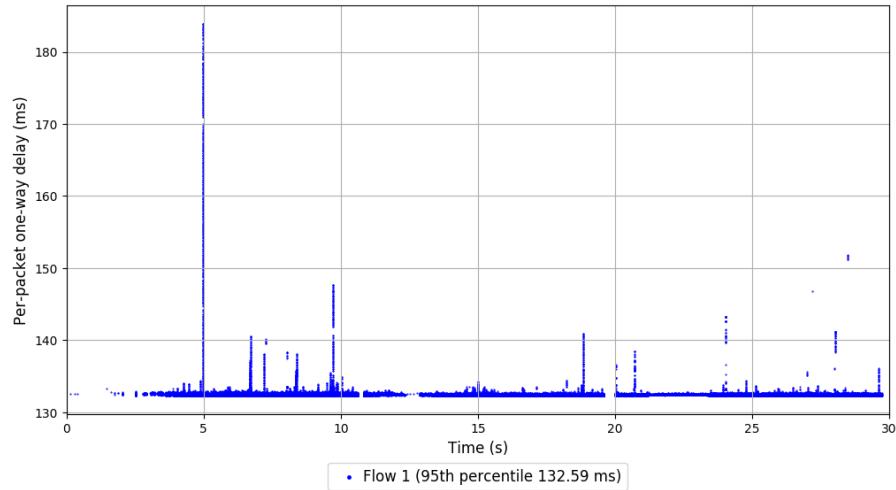
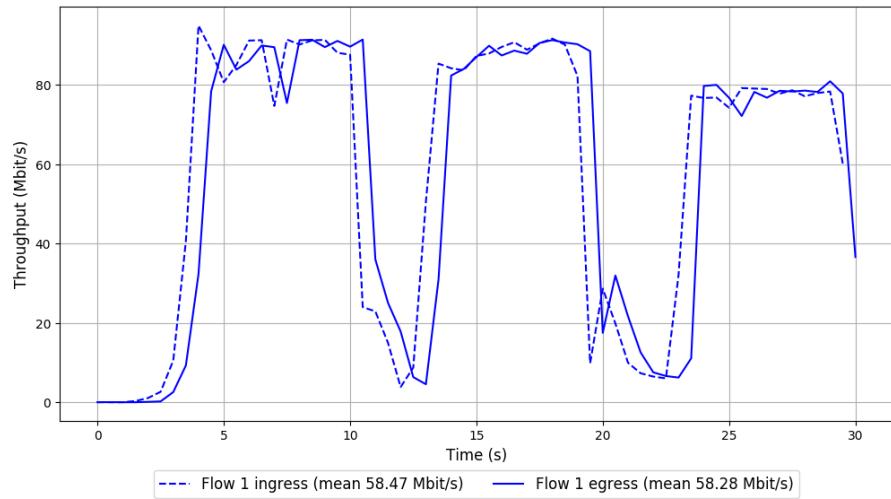


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-06-27 13:36:55
End at: 2019-06-27 13:37:25
Local clock offset: -0.421 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.28 Mbit/s
95th percentile per-packet one-way delay: 132.588 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 58.28 Mbit/s
95th percentile per-packet one-way delay: 132.588 ms
Loss rate: 1.21%
```

Run 5: Report of QUIC Cubic — Data Link

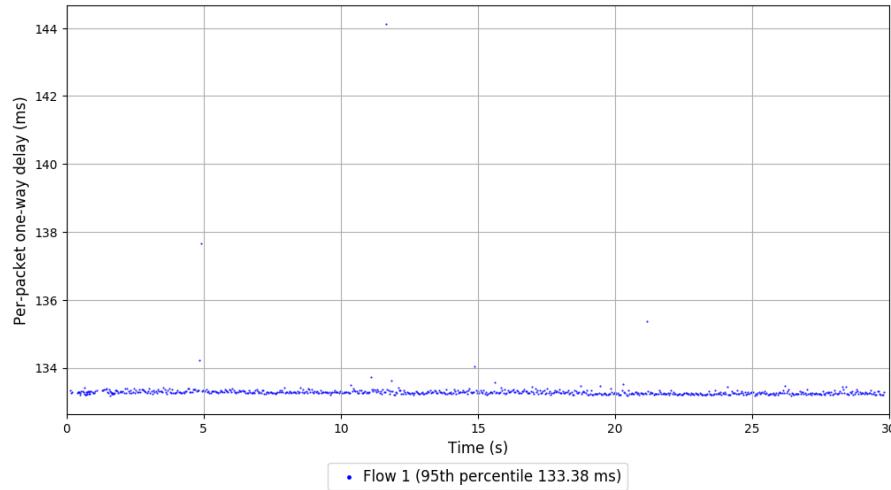
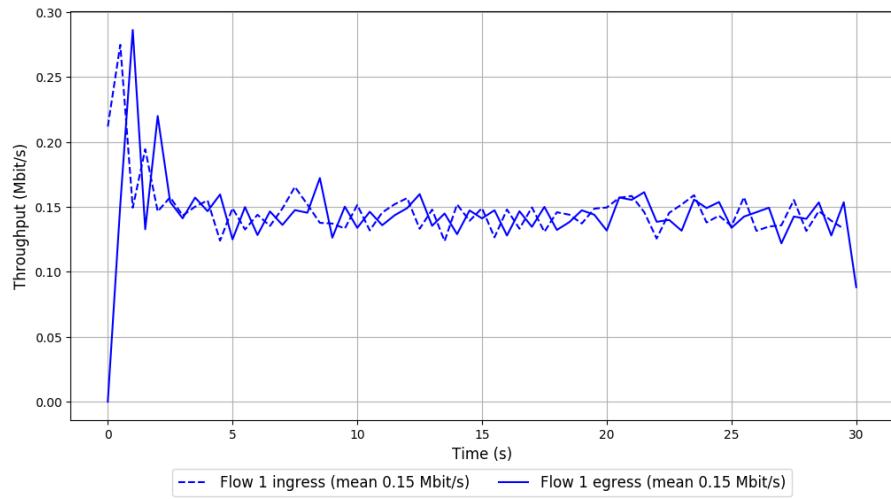


Run 1: Statistics of SCReAM

```
Start at: 2019-06-27 11:35:12
End at: 2019-06-27 11:35:42
Local clock offset: -0.146 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.377 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.377 ms
Loss rate: 0.88%
```

Run 1: Report of SCReAM — Data Link

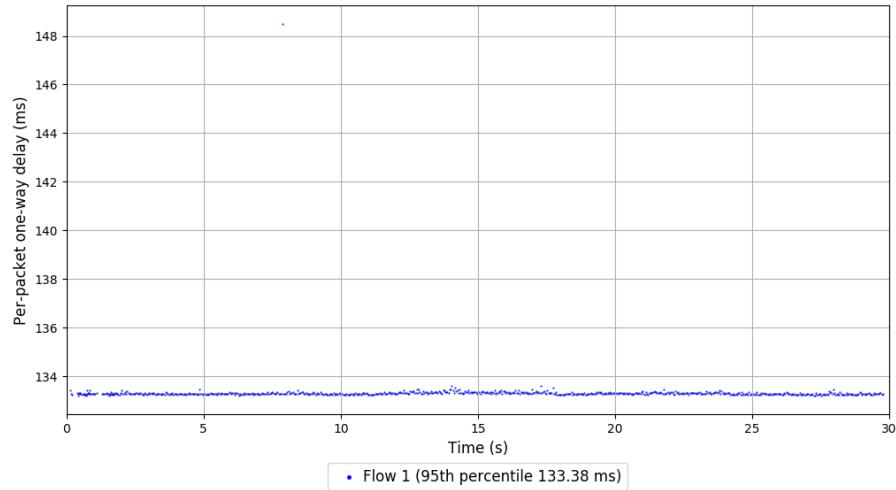
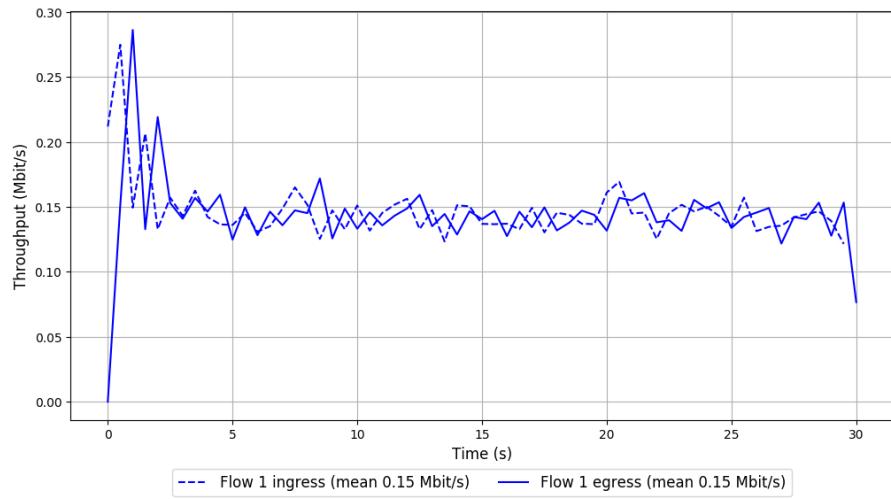


Run 2: Statistics of SCReAM

```
Start at: 2019-06-27 12:06:56
End at: 2019-06-27 12:07:26
Local clock offset: 0.055 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.383 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.383 ms
Loss rate: 0.88%
```

Run 2: Report of SCReAM — Data Link

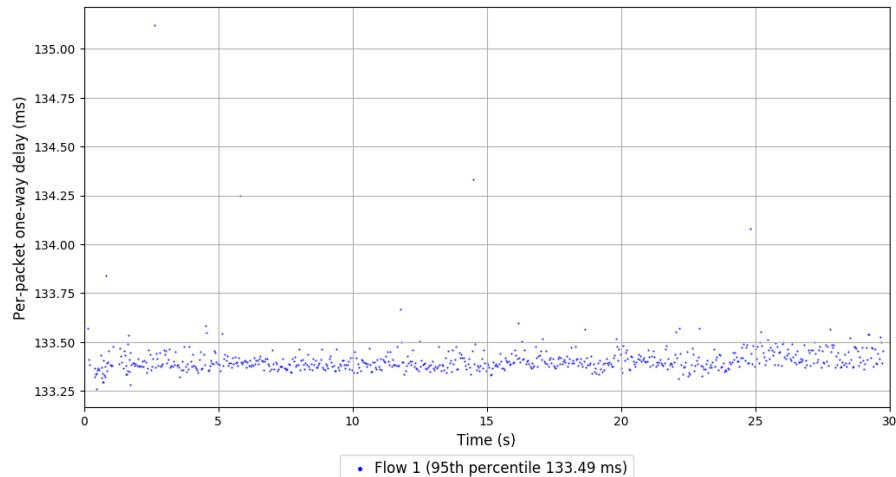
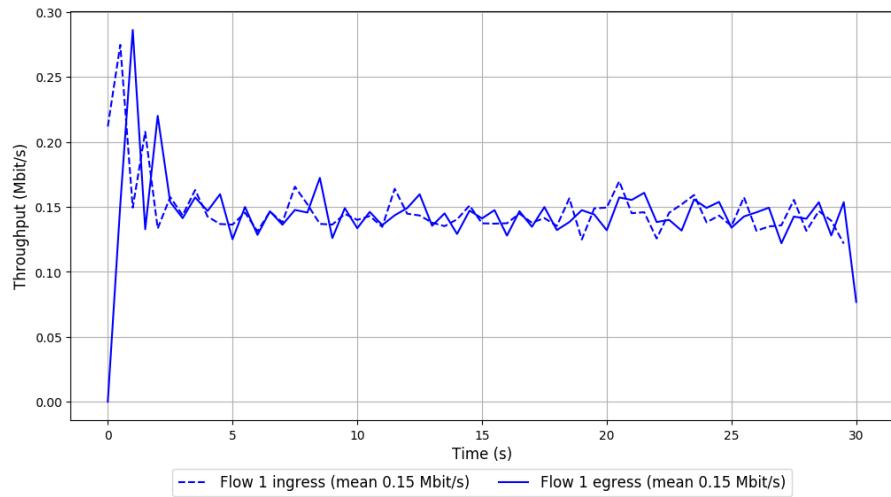


Run 3: Statistics of SCReAM

```
Start at: 2019-06-27 12:39:21
End at: 2019-06-27 12:39:51
Local clock offset: -0.022 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.489 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.489 ms
Loss rate: 0.88%
```

Run 3: Report of SCReAM — Data Link

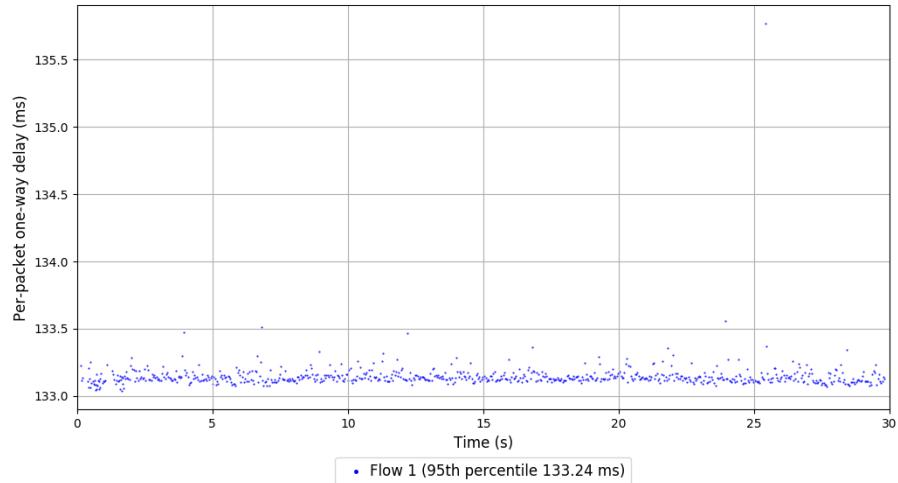
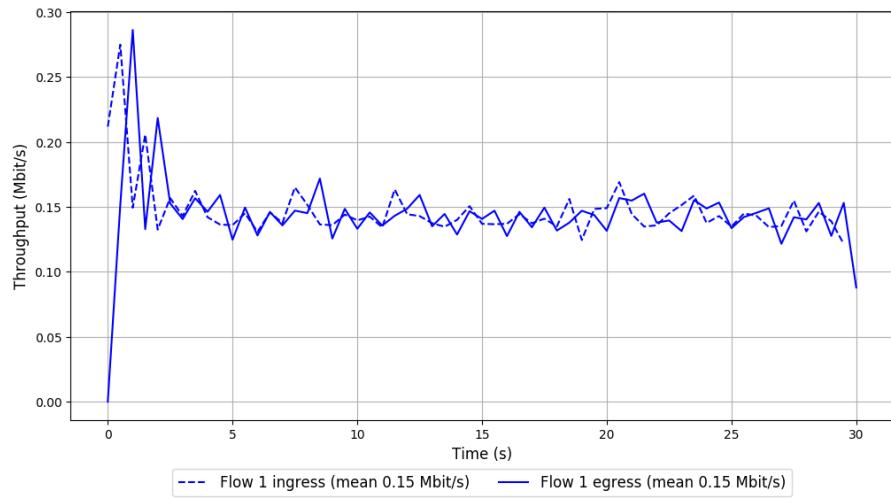


Run 4: Statistics of SCReAM

```
Start at: 2019-06-27 13:11:41
End at: 2019-06-27 13:12:11
Local clock offset: 0.03 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.236 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.236 ms
Loss rate: 0.75%
```

Run 4: Report of SCReAM — Data Link

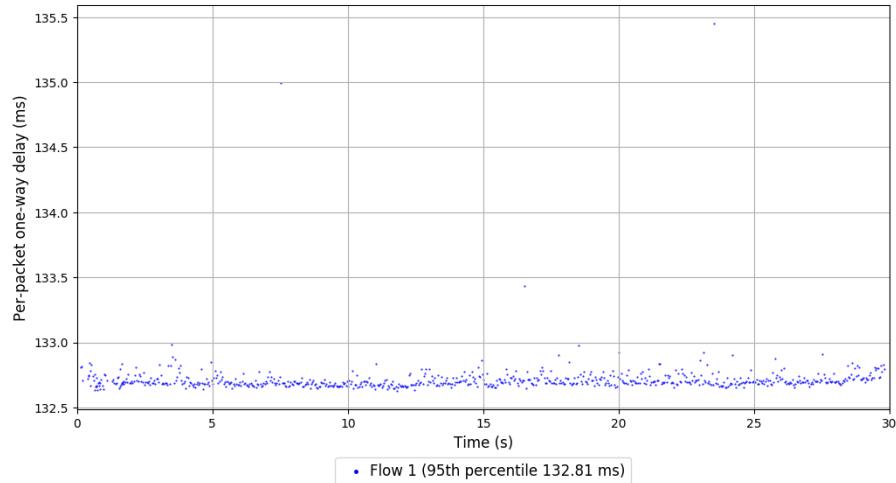
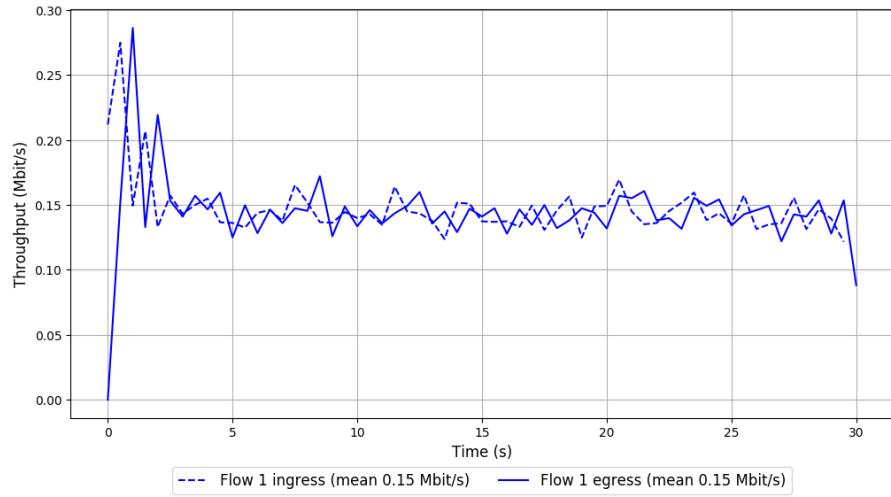


Run 5: Statistics of SCReAM

```
Start at: 2019-06-27 13:44:08
End at: 2019-06-27 13:44:38
Local clock offset: -0.444 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.809 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.809 ms
Loss rate: 0.75%
```

Run 5: Report of SCReAM — Data Link

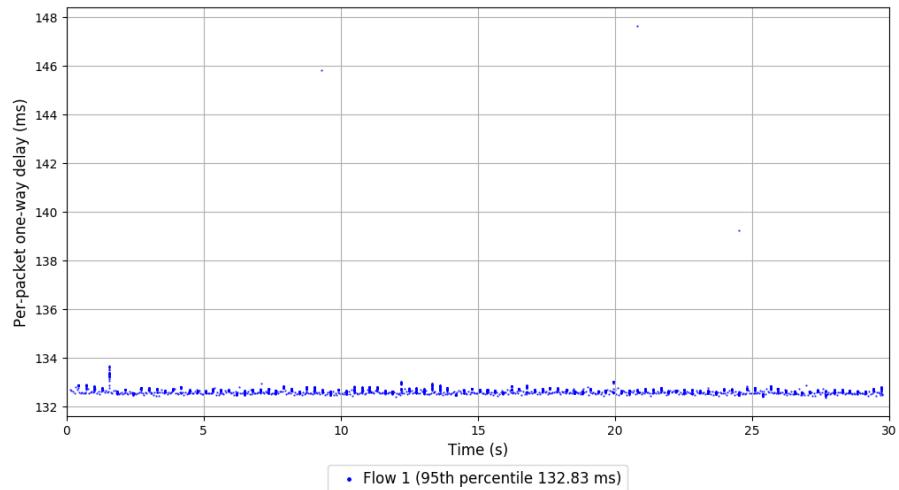
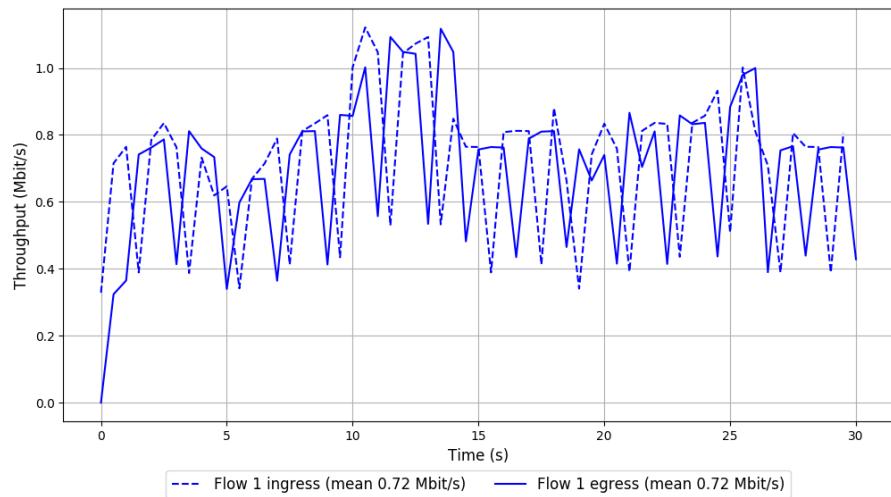


Run 1: Statistics of Sprout

```
Start at: 2019-06-27 11:40:39
End at: 2019-06-27 11:41:09
Local clock offset: -0.525 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 132.829 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 132.829 ms
Loss rate: 0.89%
```

Run 1: Report of Sprout — Data Link

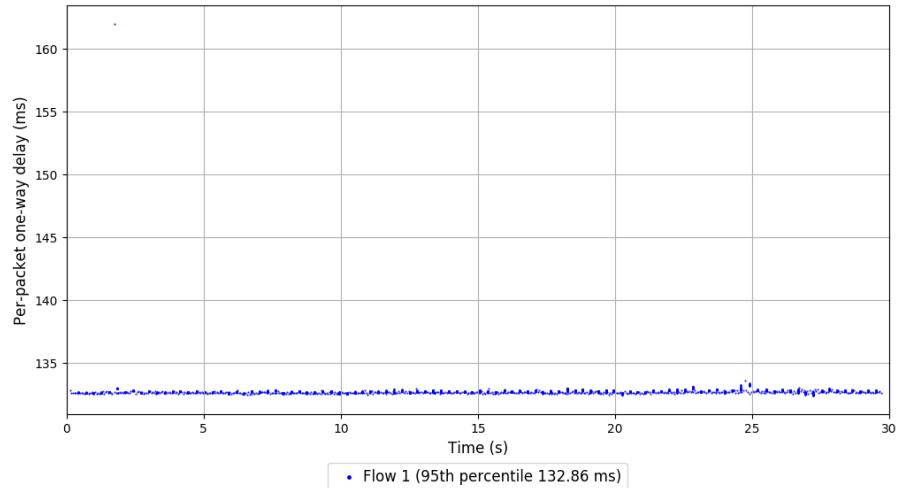
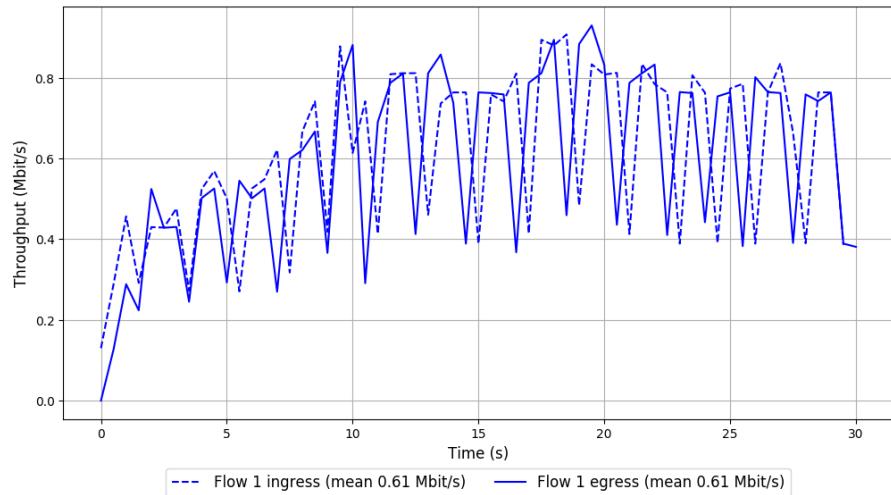


Run 2: Statistics of Sprout

```
Start at: 2019-06-27 12:12:28
End at: 2019-06-27 12:12:58
Local clock offset: 0.032 ms
Remote clock offset: 0.281 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 132.863 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 132.863 ms
Loss rate: 1.04%
```

Run 2: Report of Sprout — Data Link

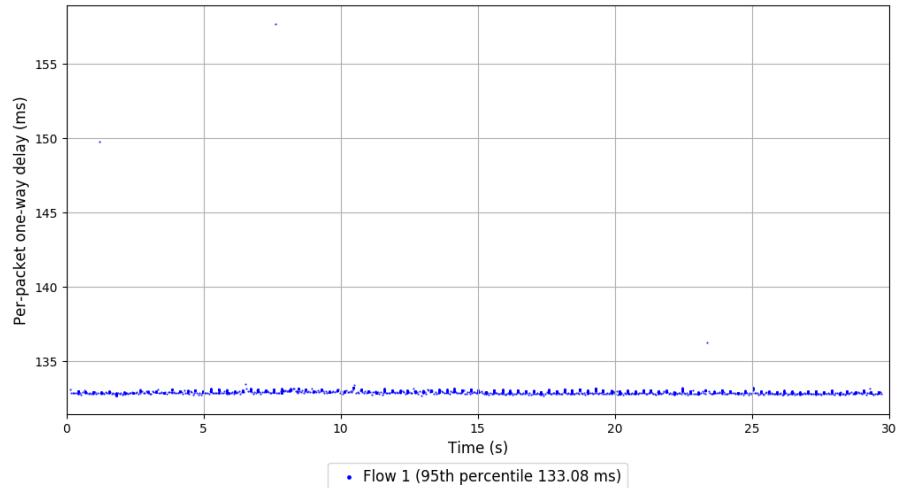
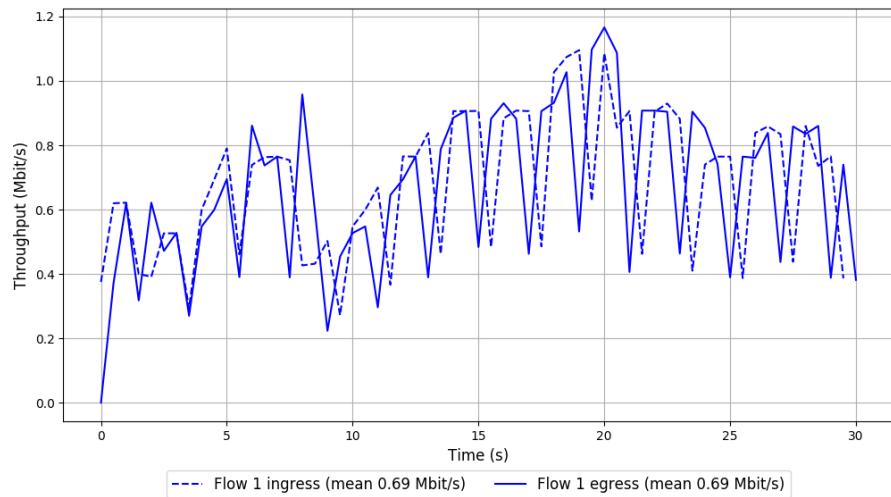


Run 3: Statistics of Sprout

```
Start at: 2019-06-27 12:44:52
End at: 2019-06-27 12:45:22
Local clock offset: -0.106 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 133.084 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 133.084 ms
Loss rate: 0.93%
```

Run 3: Report of Sprout — Data Link

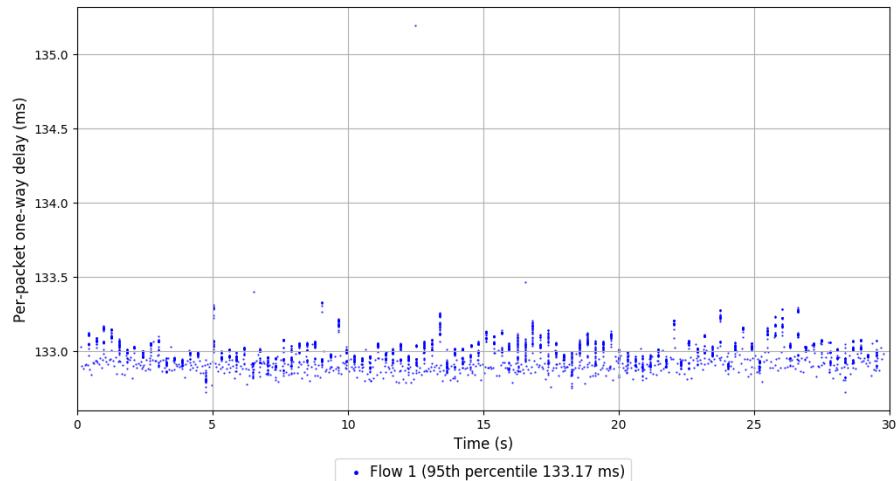
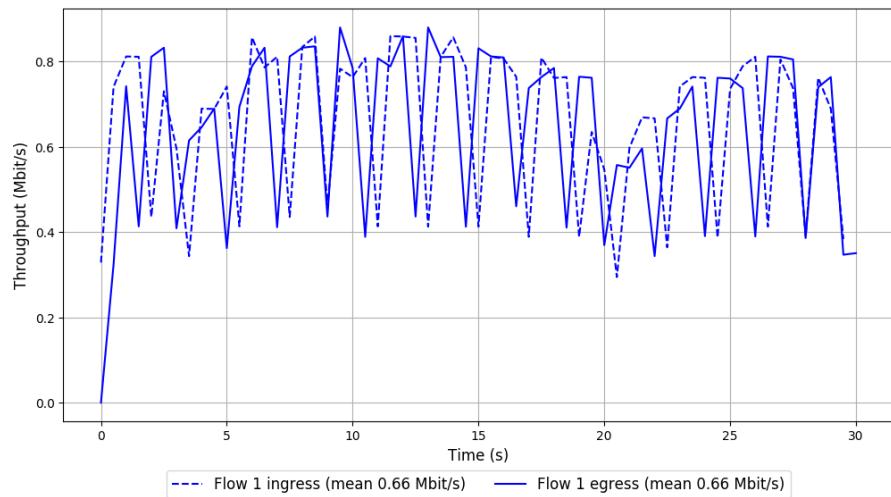


Run 4: Statistics of Sprout

```
Start at: 2019-06-27 13:17:13
End at: 2019-06-27 13:17:43
Local clock offset: 0.026 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 133.168 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 133.168 ms
Loss rate: 0.96%
```

Run 4: Report of Sprout — Data Link

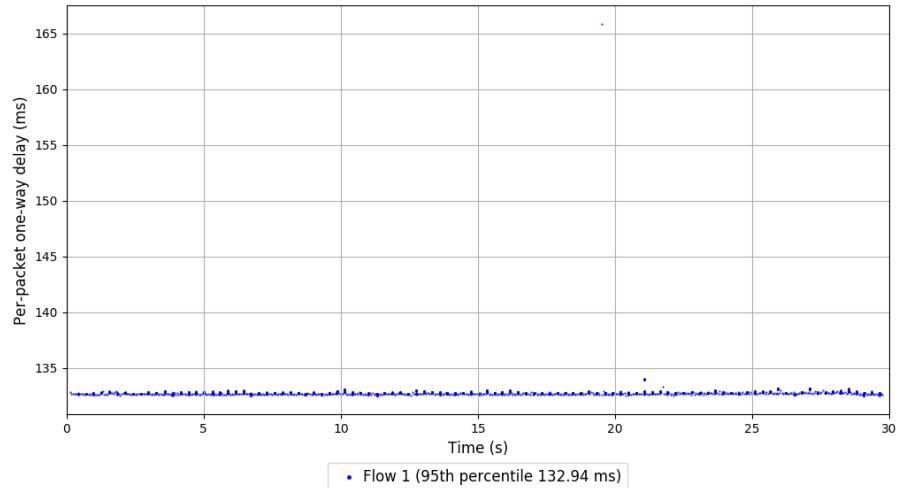
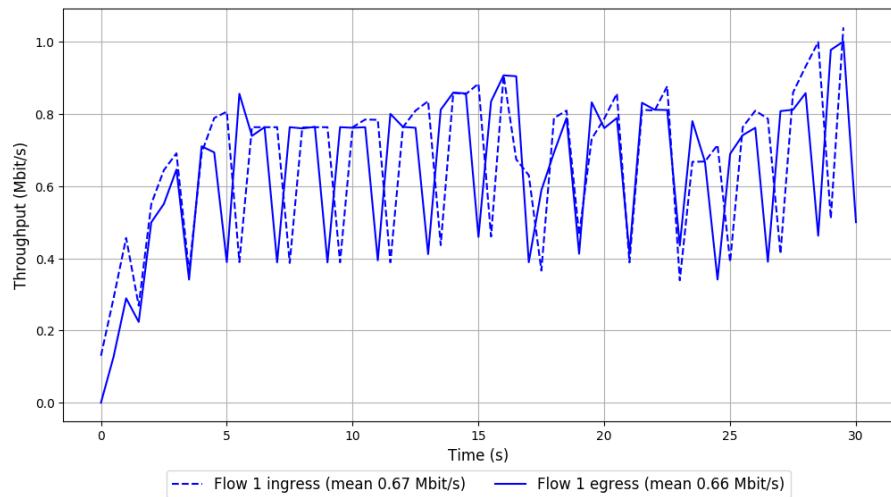


Run 5: Statistics of Sprout

```
Start at: 2019-06-27 13:49:34
End at: 2019-06-27 13:50:04
Local clock offset: 0.107 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 132.941 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 132.941 ms
Loss rate: 1.37%
```

Run 5: Report of Sprout — Data Link

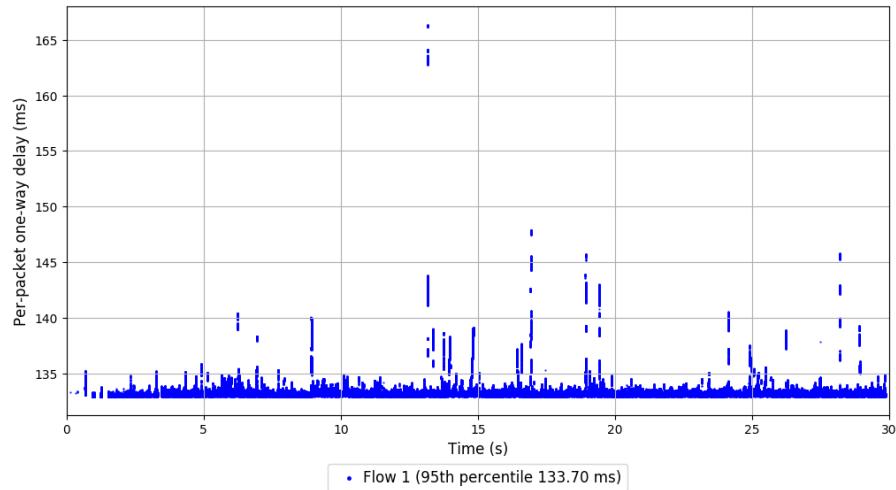
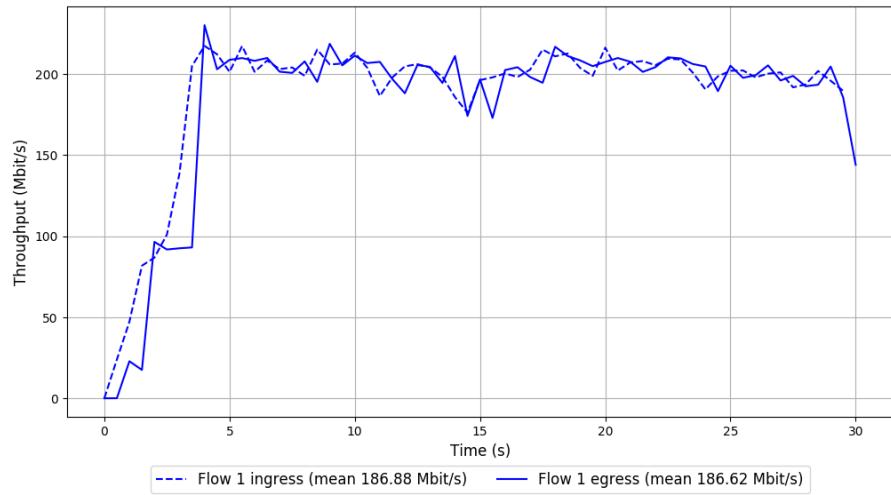


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-06-27 11:18:47
End at: 2019-06-27 11:19:17
Local clock offset: 0.125 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-06-27 15:24:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.62 Mbit/s
95th percentile per-packet one-way delay: 133.704 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 186.62 Mbit/s
95th percentile per-packet one-way delay: 133.704 ms
Loss rate: 1.03%
```

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

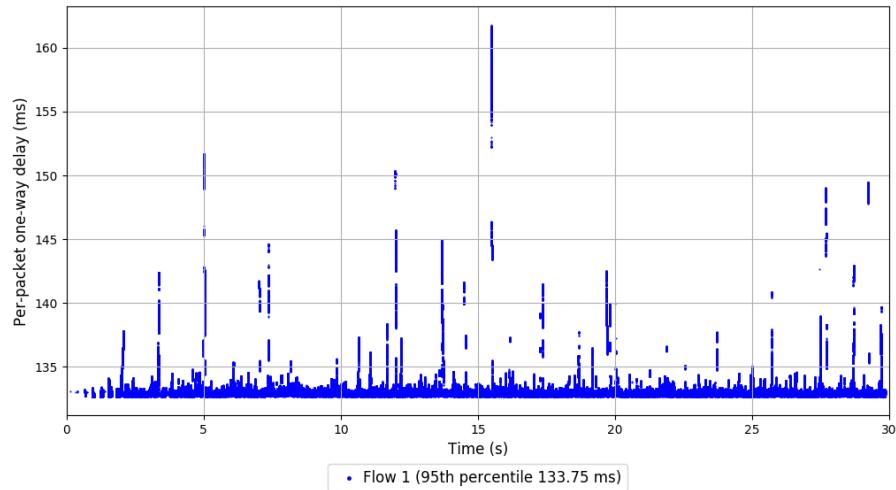
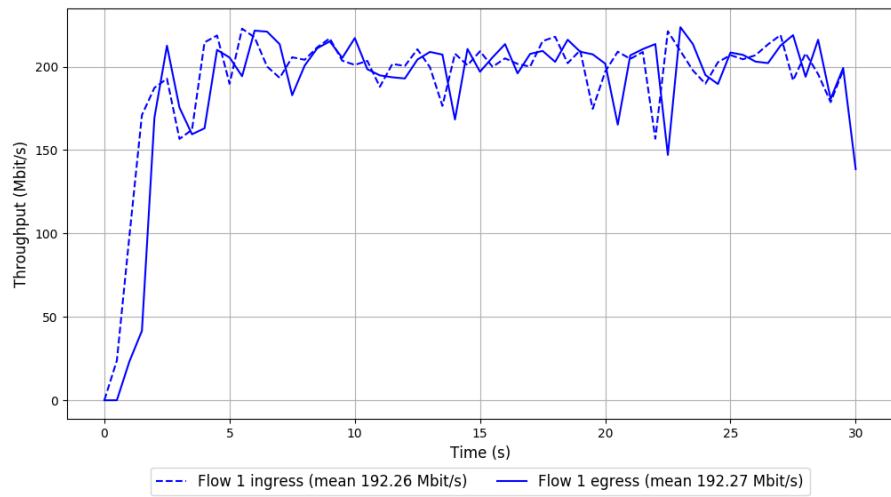


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-06-27 11:51:08
End at: 2019-06-27 11:51:38
Local clock offset: -0.252 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-06-27 15:24:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.27 Mbit/s
95th percentile per-packet one-way delay: 133.754 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 192.27 Mbit/s
95th percentile per-packet one-way delay: 133.754 ms
Loss rate: 0.88%
```

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

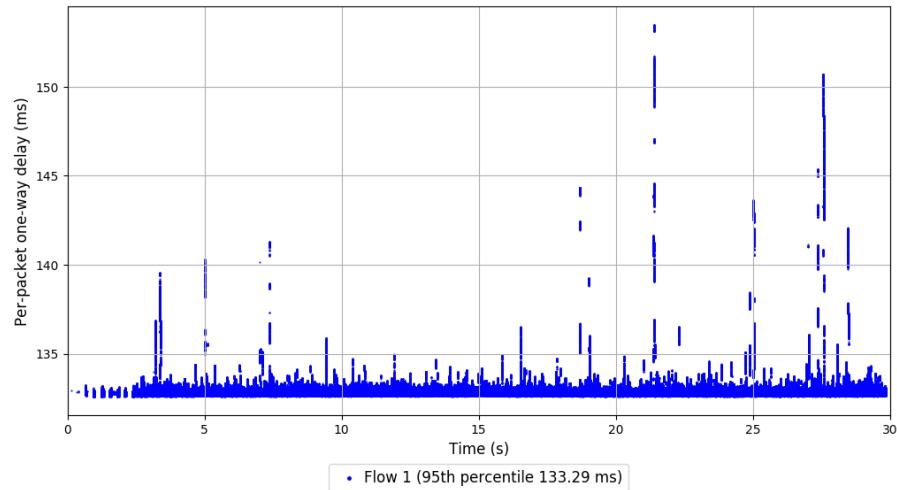
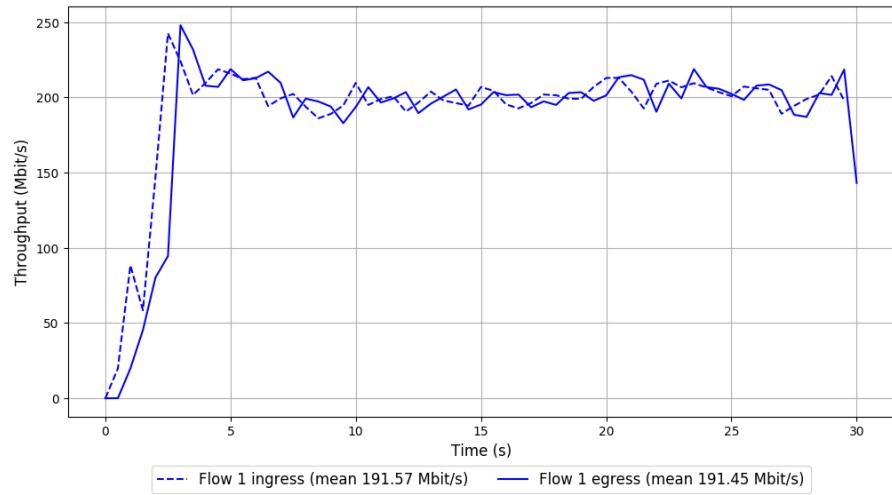


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-06-27 12:23:08
End at: 2019-06-27 12:23:38
Local clock offset: -0.433 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-06-27 15:24:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.45 Mbit/s
95th percentile per-packet one-way delay: 133.291 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 191.45 Mbit/s
95th percentile per-packet one-way delay: 133.291 ms
Loss rate: 0.94%
```

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

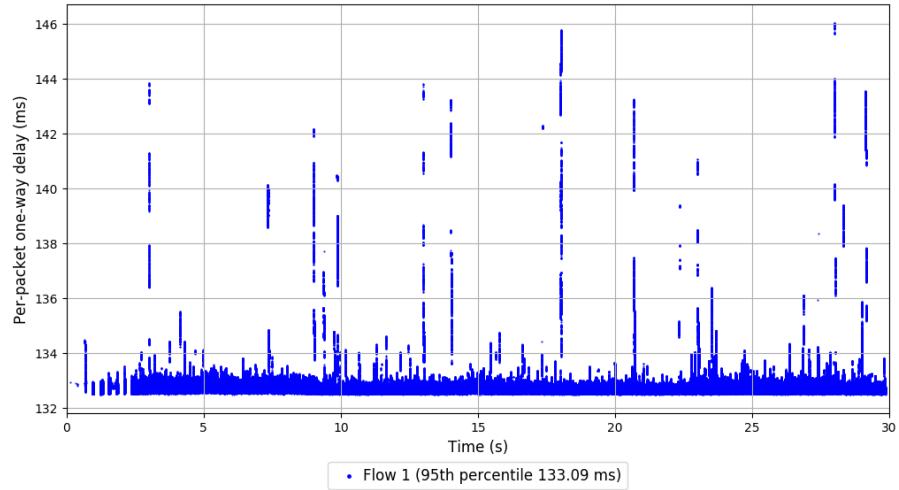
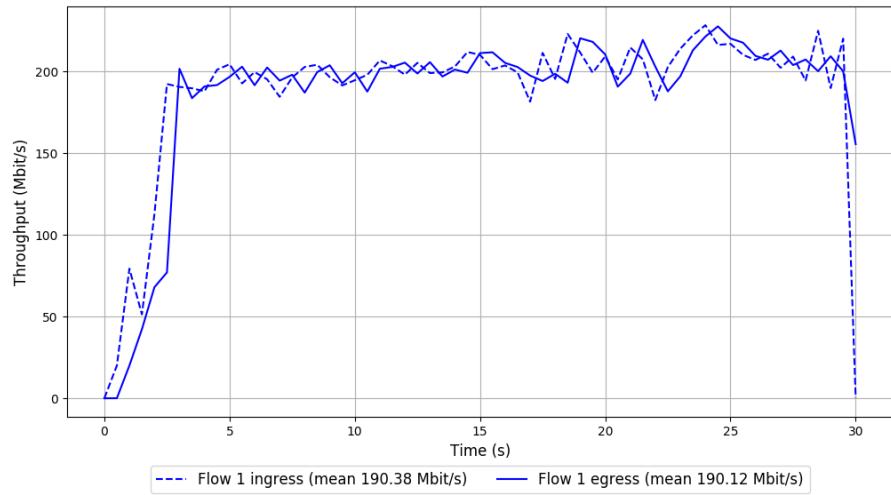


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-06-27 12:55:22
End at: 2019-06-27 12:55:52
Local clock offset: -0.245 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-06-27 15:25:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.12 Mbit/s
95th percentile per-packet one-way delay: 133.094 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 190.12 Mbit/s
95th percentile per-packet one-way delay: 133.094 ms
Loss rate: 1.04%
```

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

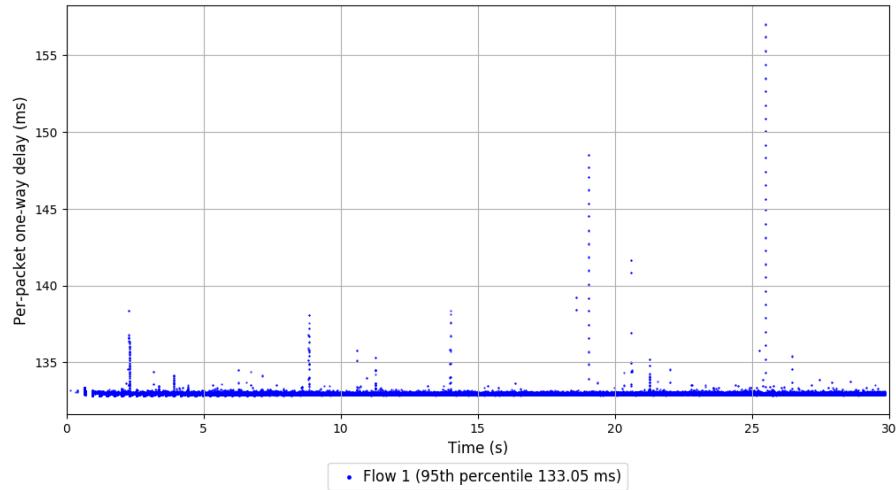
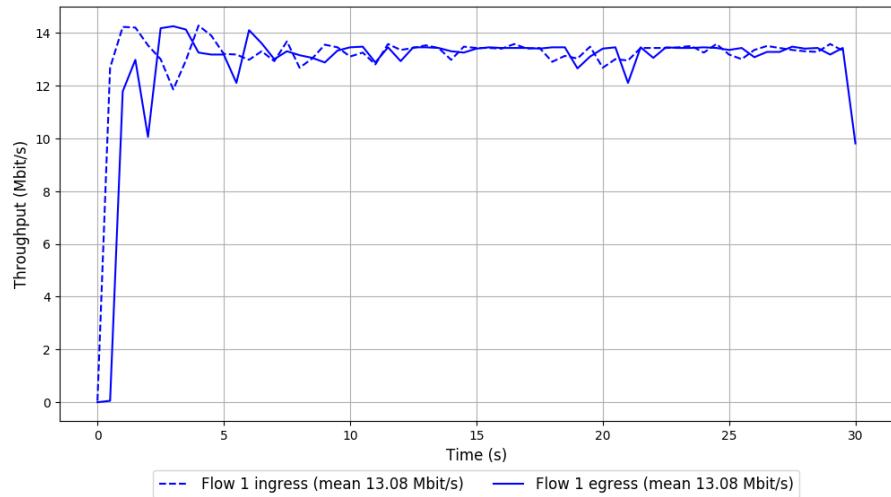


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-06-27 13:28:04
End at: 2019-06-27 13:28:34
Local clock offset: -0.003 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-06-27 15:25:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.08 Mbit/s
95th percentile per-packet one-way delay: 133.048 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 13.08 Mbit/s
95th percentile per-packet one-way delay: 133.048 ms
Loss rate: 0.91%
```

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

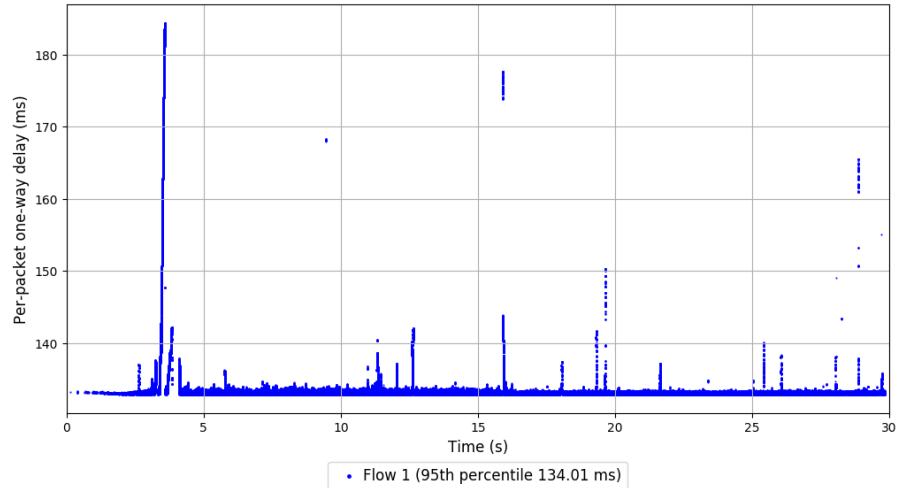
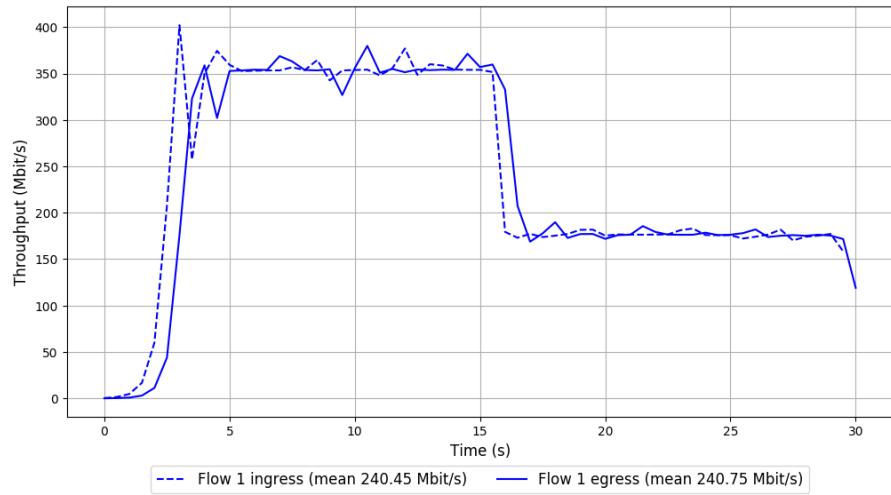


Run 1: Statistics of TCP Vegas

```
Start at: 2019-06-27 11:29:14
End at: 2019-06-27 11:29:44
Local clock offset: -0.398 ms
Remote clock offset: -0.47 ms

# Below is generated by plot.py at 2019-06-27 15:25:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 240.75 Mbit/s
95th percentile per-packet one-way delay: 134.015 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 240.75 Mbit/s
95th percentile per-packet one-way delay: 134.015 ms
Loss rate: 0.76%
```

Run 1: Report of TCP Vegas — Data Link

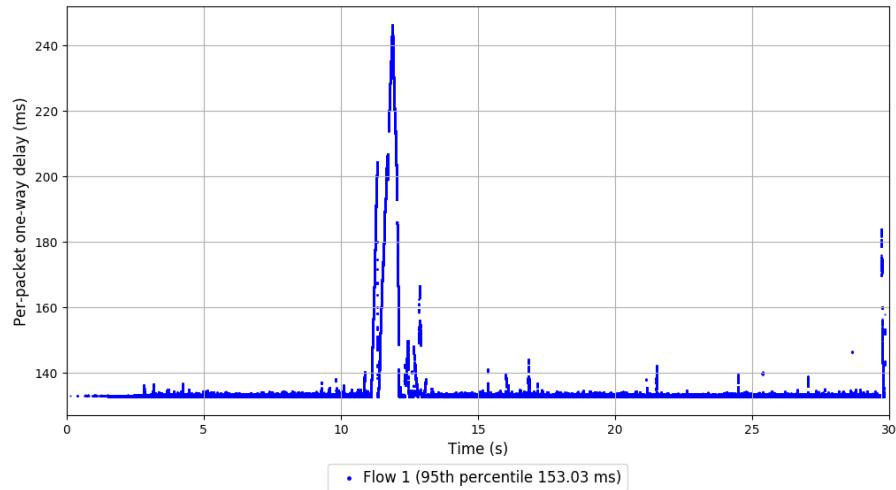
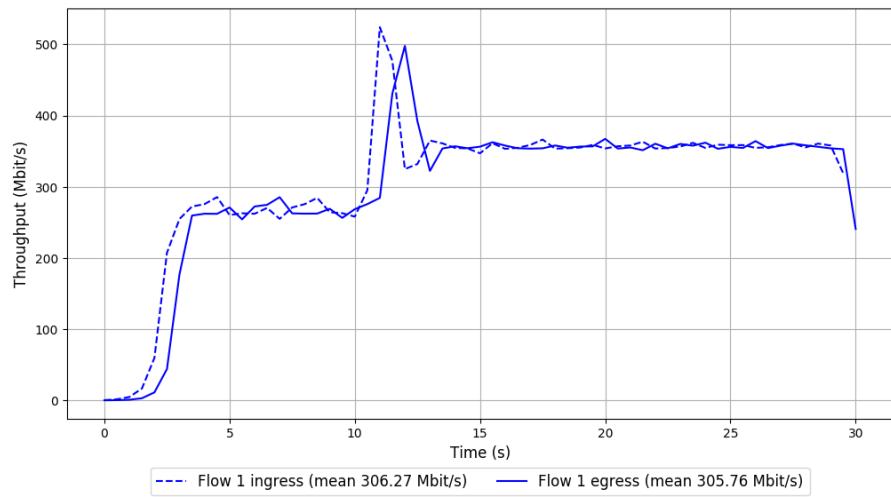


Run 2: Statistics of TCP Vegas

```
Start at: 2019-06-27 12:01:24
End at: 2019-06-27 12:01:54
Local clock offset: 0.443 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-06-27 15:25:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 305.76 Mbit/s
95th percentile per-packet one-way delay: 153.033 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 305.76 Mbit/s
95th percentile per-packet one-way delay: 153.033 ms
Loss rate: 1.04%
```

Run 2: Report of TCP Vegas — Data Link

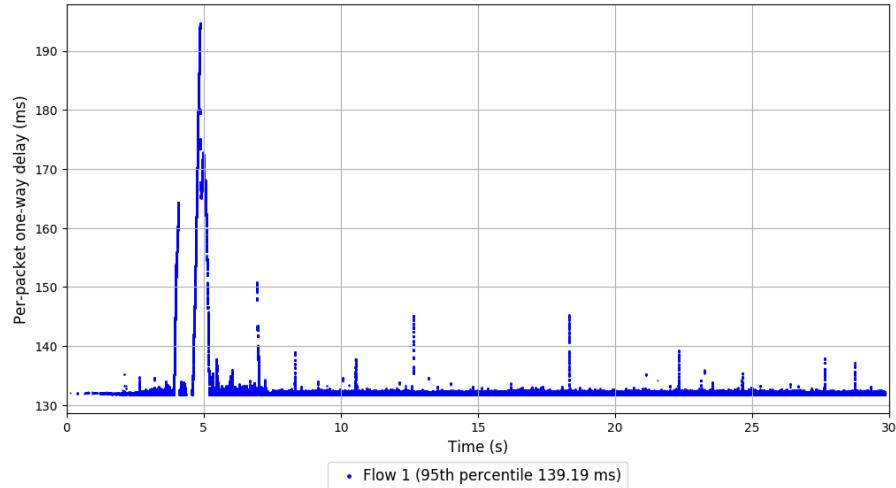
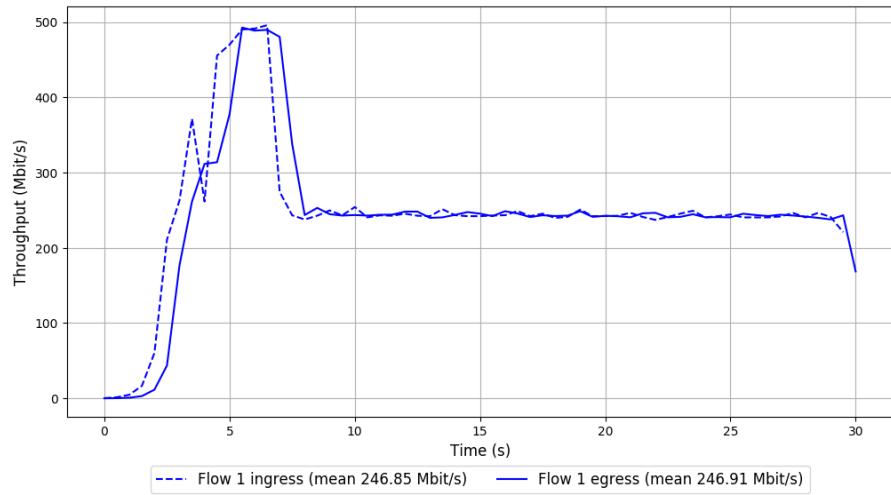


Run 3: Statistics of TCP Vegas

```
Start at: 2019-06-27 12:33:23
End at: 2019-06-27 12:33:53
Local clock offset: -0.234 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-06-27 15:25:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.91 Mbit/s
95th percentile per-packet one-way delay: 139.191 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 246.91 Mbit/s
95th percentile per-packet one-way delay: 139.191 ms
Loss rate: 0.87%
```

Run 3: Report of TCP Vegas — Data Link

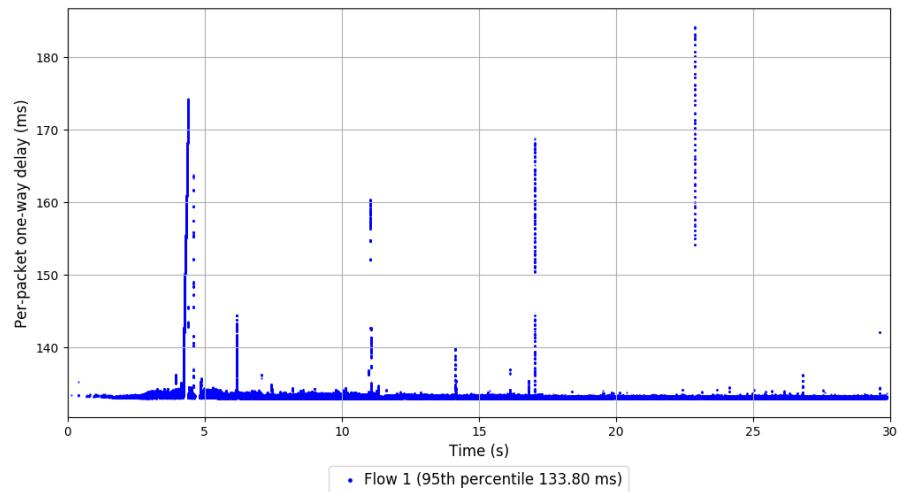
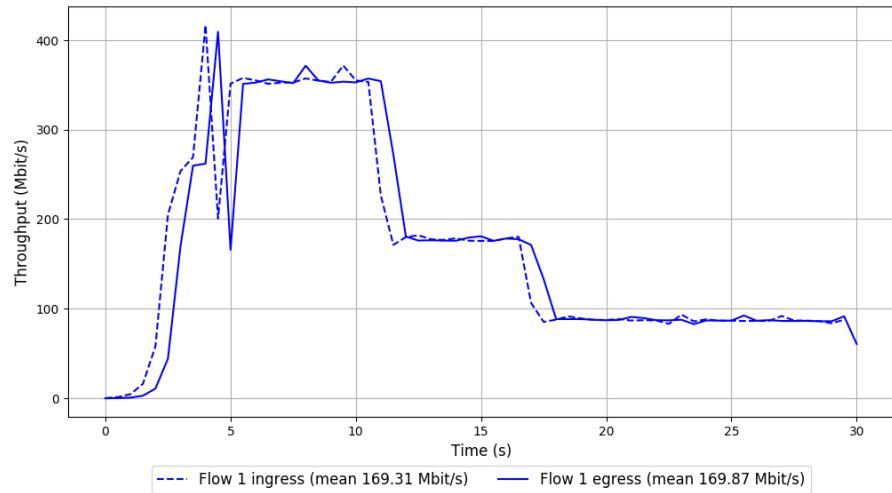


Run 4: Statistics of TCP Vegas

```
Start at: 2019-06-27 13:05:49
End at: 2019-06-27 13:06:19
Local clock offset: 0.01 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2019-06-27 15:26:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.87 Mbit/s
95th percentile per-packet one-way delay: 133.804 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 169.87 Mbit/s
95th percentile per-packet one-way delay: 133.804 ms
Loss rate: 0.56%
```

Run 4: Report of TCP Vegas — Data Link

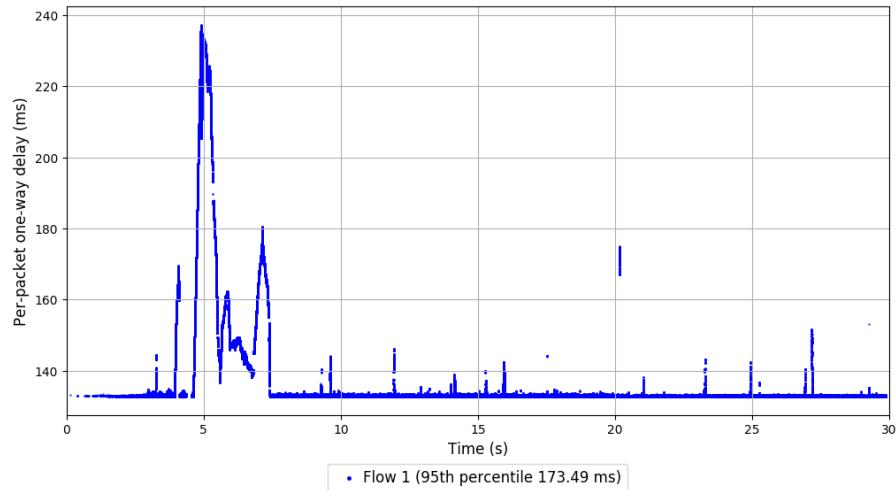
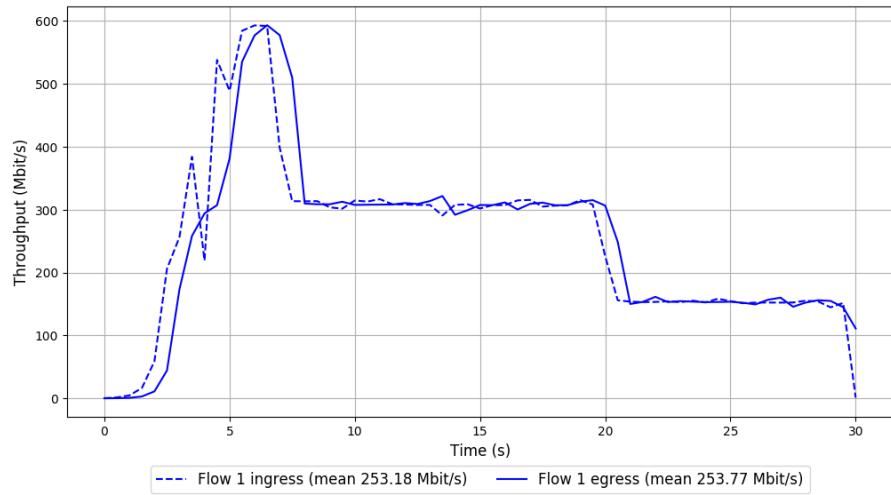


Run 5: Statistics of TCP Vegas

```
Start at: 2019-06-27 13:38:10
End at: 2019-06-27 13:38:40
Local clock offset: 0.005 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-06-27 15:28:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 253.77 Mbit/s
95th percentile per-packet one-way delay: 173.490 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 253.77 Mbit/s
95th percentile per-packet one-way delay: 173.490 ms
Loss rate: 0.65%
```

Run 5: Report of TCP Vegas — Data Link

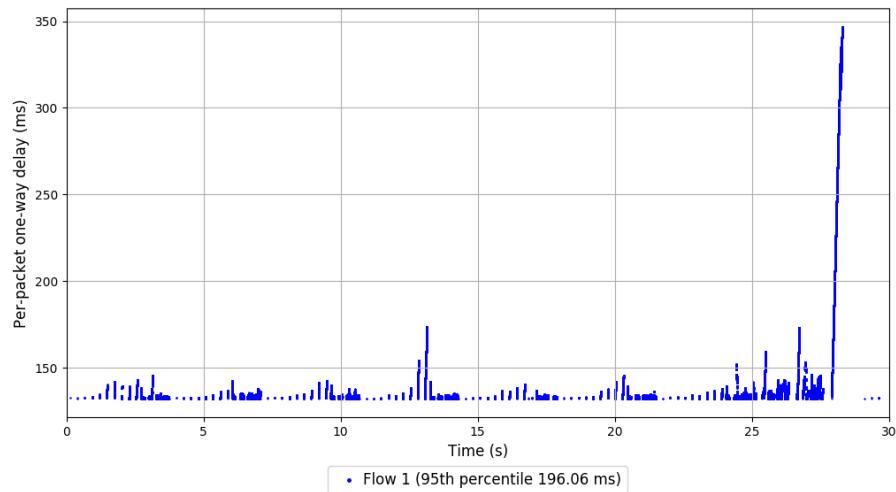
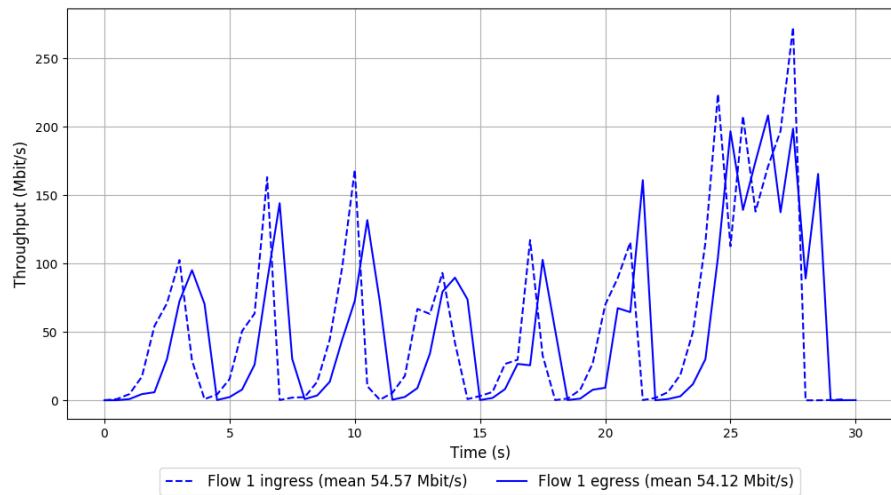


Run 1: Statistics of Verus

```
Start at: 2019-06-27 11:21:53
End at: 2019-06-27 11:22:23
Local clock offset: 0.136 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-06-27 15:28:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.12 Mbit/s
95th percentile per-packet one-way delay: 196.056 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 54.12 Mbit/s
95th percentile per-packet one-way delay: 196.056 ms
Loss rate: 1.71%
```

Run 1: Report of Verus — Data Link

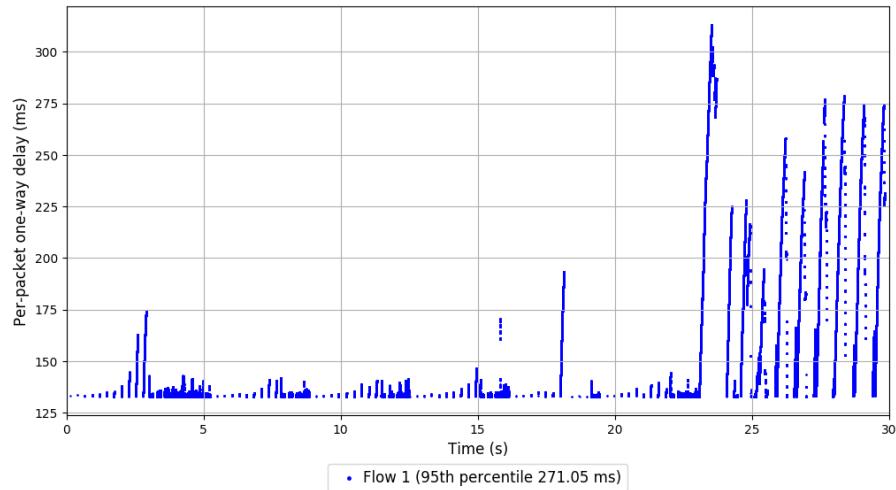
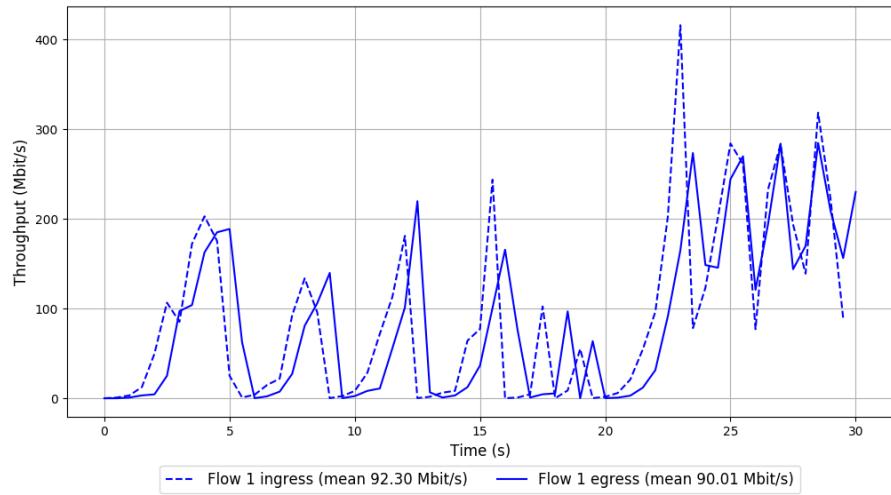


Run 2: Statistics of Verus

```
Start at: 2019-06-27 11:54:20
End at: 2019-06-27 11:54:50
Local clock offset: 0.419 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2019-06-27 15:28:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.01 Mbit/s
95th percentile per-packet one-way delay: 271.052 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 90.01 Mbit/s
95th percentile per-packet one-way delay: 271.052 ms
Loss rate: 2.39%
```

Run 2: Report of Verus — Data Link

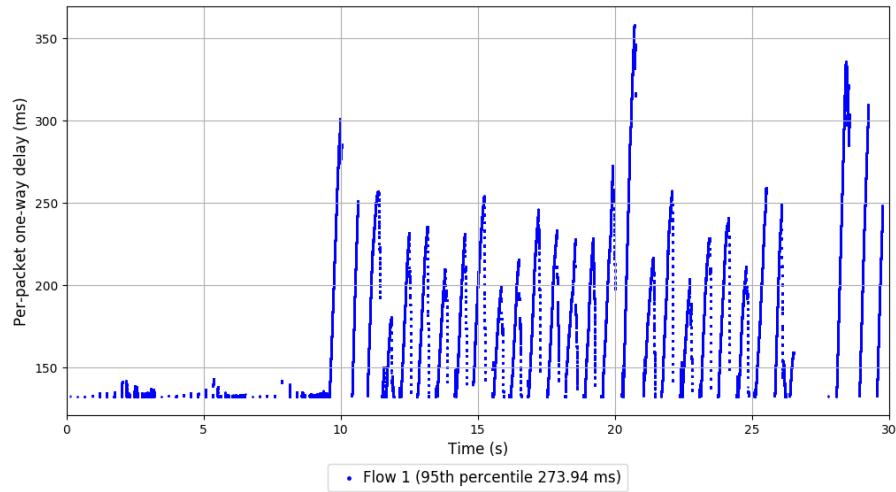
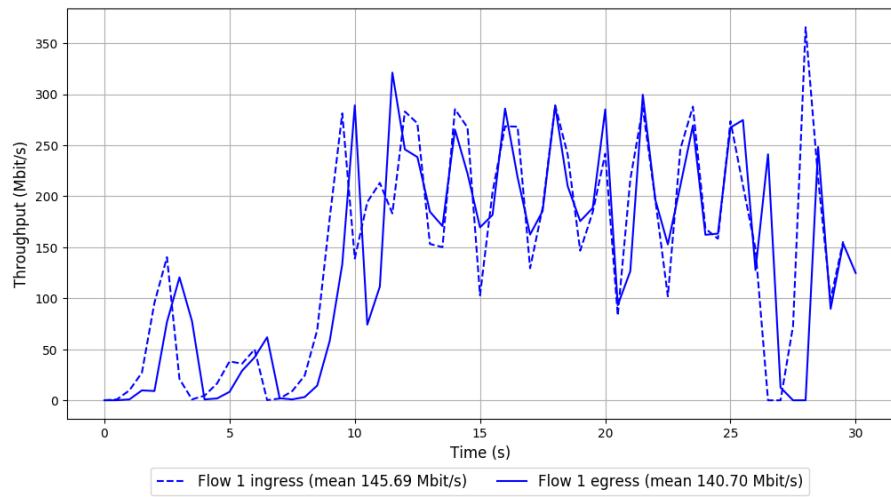


Run 3: Statistics of Verus

```
Start at: 2019-06-27 12:26:15
End at: 2019-06-27 12:26:45
Local clock offset: -0.024 ms
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-06-27 15:29:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 140.70 Mbit/s
95th percentile per-packet one-way delay: 273.945 ms
Loss rate: 4.12%
-- Flow 1:
Average throughput: 140.70 Mbit/s
95th percentile per-packet one-way delay: 273.945 ms
Loss rate: 4.12%
```

Run 3: Report of Verus — Data Link

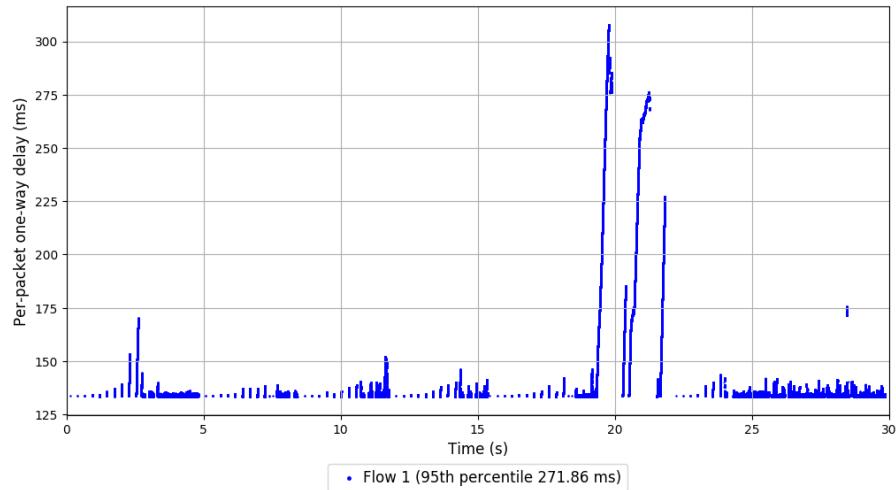
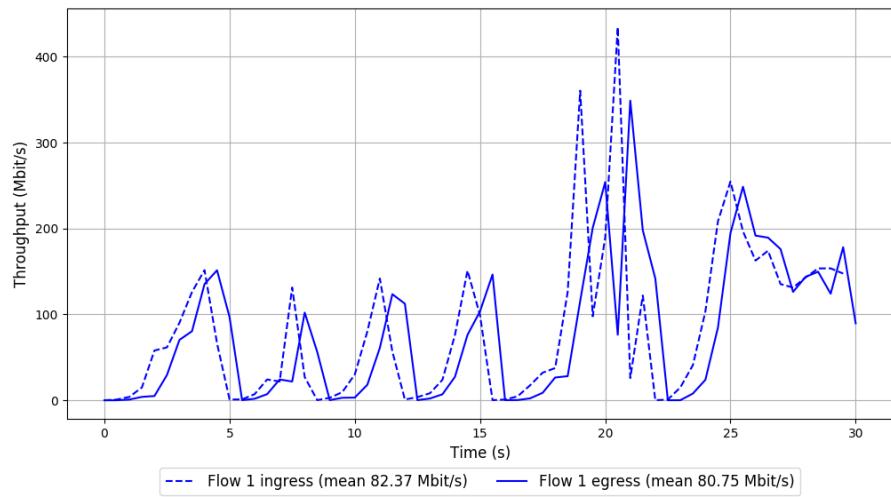


Run 4: Statistics of Verus

```
Start at: 2019-06-27 12:58:31
End at: 2019-06-27 12:59:01
Local clock offset: 0.388 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-06-27 15:29:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.75 Mbit/s
95th percentile per-packet one-way delay: 271.860 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 80.75 Mbit/s
95th percentile per-packet one-way delay: 271.860 ms
Loss rate: 2.84%
```

Run 4: Report of Verus — Data Link

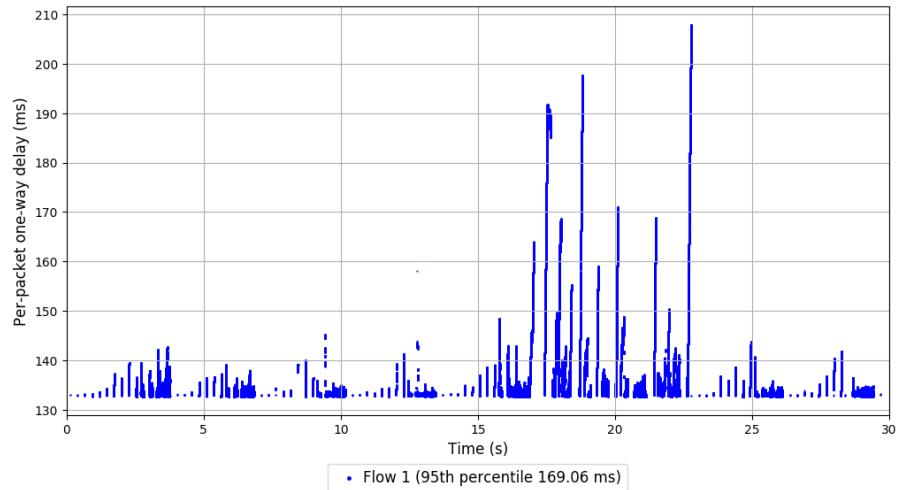
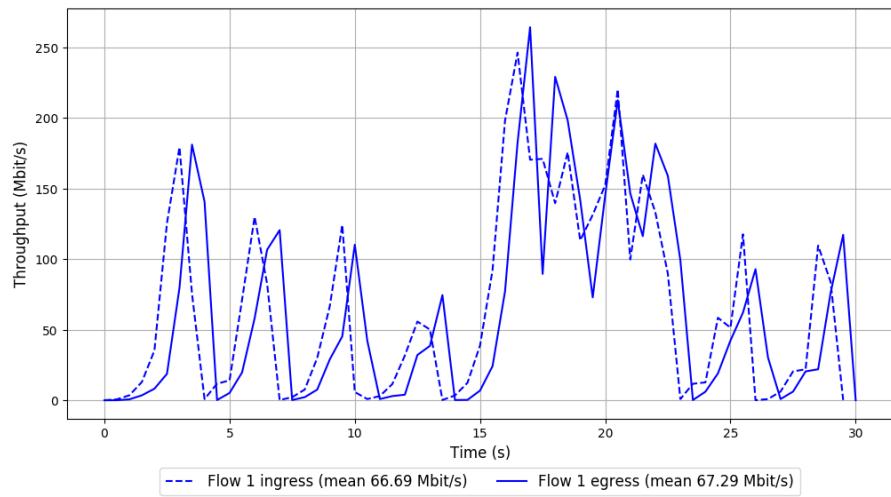


Run 5: Statistics of Verus

```
Start at: 2019-06-27 13:30:57
End at: 2019-06-27 13:31:27
Local clock offset: 0.402 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-06-27 15:29:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.29 Mbit/s
95th percentile per-packet one-way delay: 169.065 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.29 Mbit/s
95th percentile per-packet one-way delay: 169.065 ms
Loss rate: 0.00%
```

Run 5: Report of Verus — Data Link

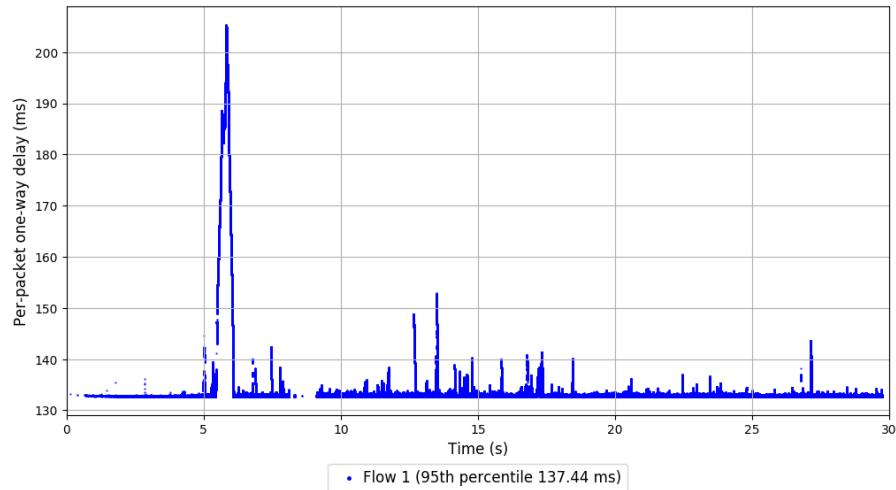
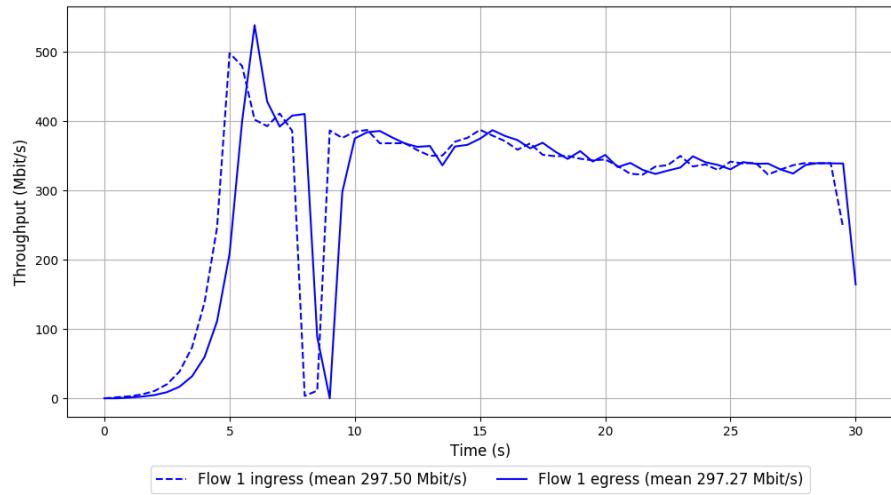


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-06-27 11:24:48
End at: 2019-06-27 11:25:18
Local clock offset: -0.384 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-06-27 15:29:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.27 Mbit/s
95th percentile per-packet one-way delay: 137.440 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 297.27 Mbit/s
95th percentile per-packet one-way delay: 137.440 ms
Loss rate: 0.97%
```

Run 1: Report of PCC-Vivace — Data Link

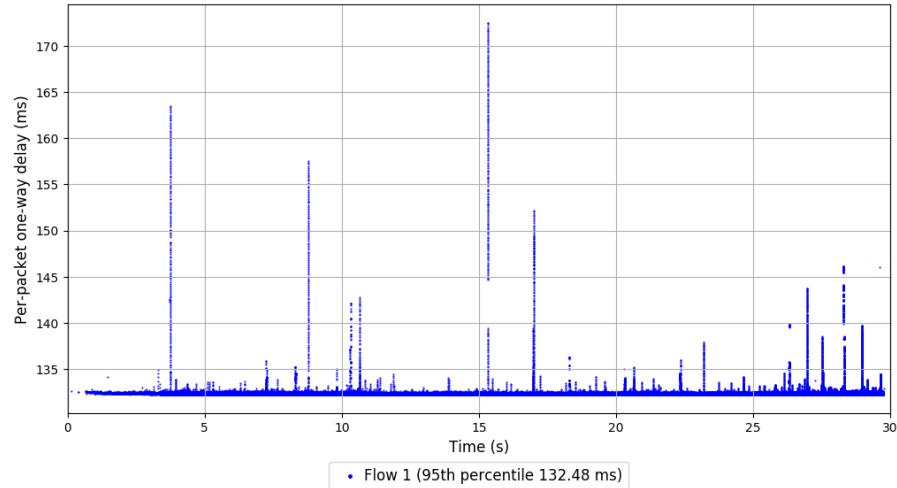
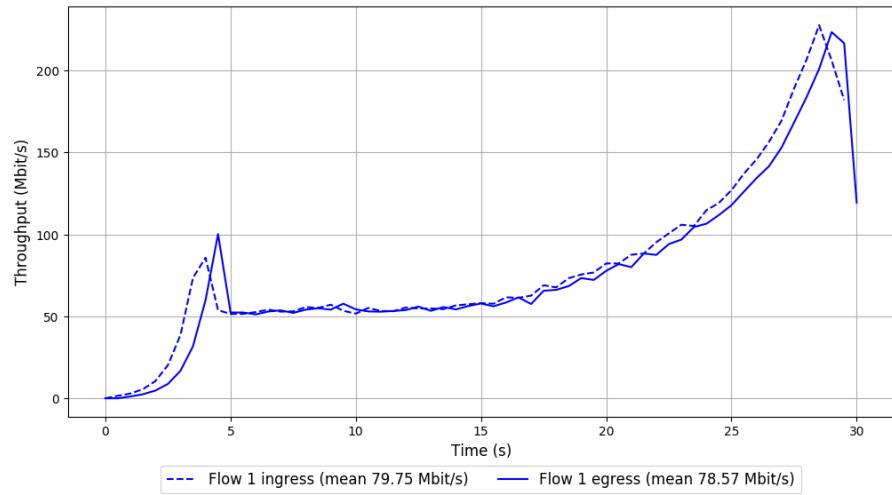


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-06-27 11:57:14
End at: 2019-06-27 11:57:44
Local clock offset: -0.411 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2019-06-27 15:29:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.57 Mbit/s
95th percentile per-packet one-way delay: 132.483 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 78.57 Mbit/s
95th percentile per-packet one-way delay: 132.483 ms
Loss rate: 2.36%
```

Run 2: Report of PCC-Vivace — Data Link

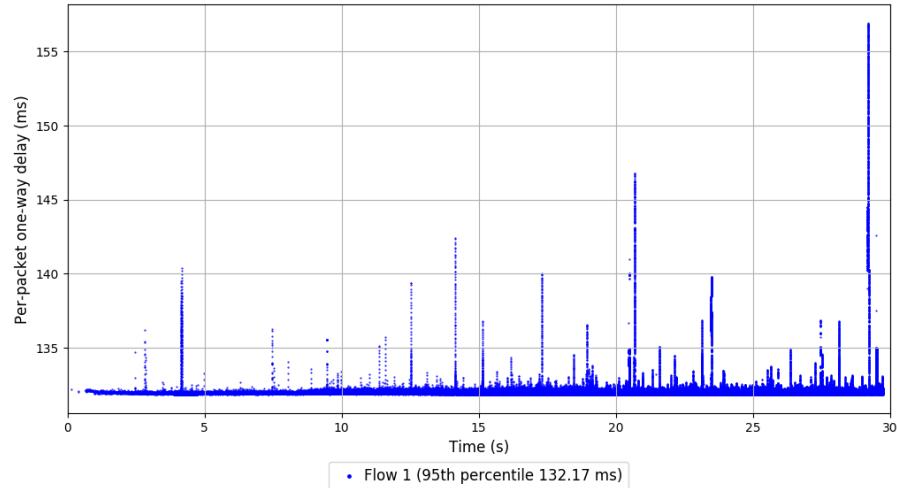
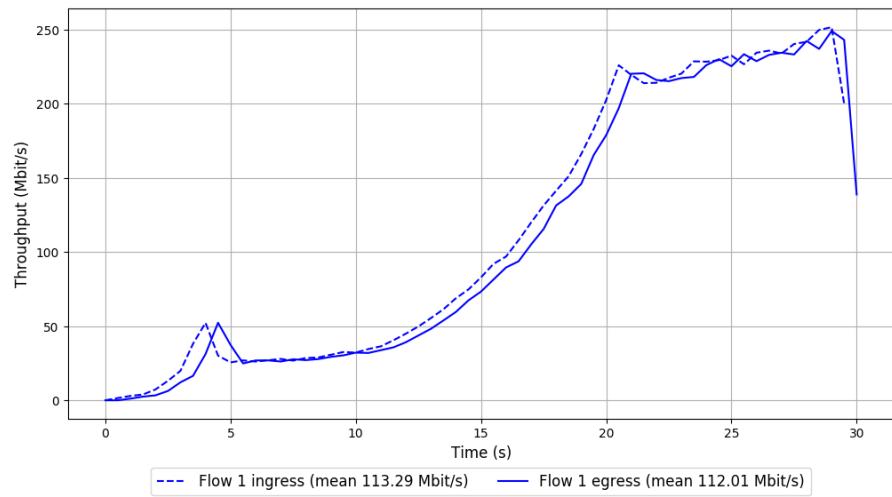


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-06-27 12:29:12
End at: 2019-06-27 12:29:42
Local clock offset: -0.474 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-06-27 15:29:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 112.01 Mbit/s
95th percentile per-packet one-way delay: 132.174 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 112.01 Mbit/s
95th percentile per-packet one-way delay: 132.174 ms
Loss rate: 2.02%
```

Run 3: Report of PCC-Vivace — Data Link

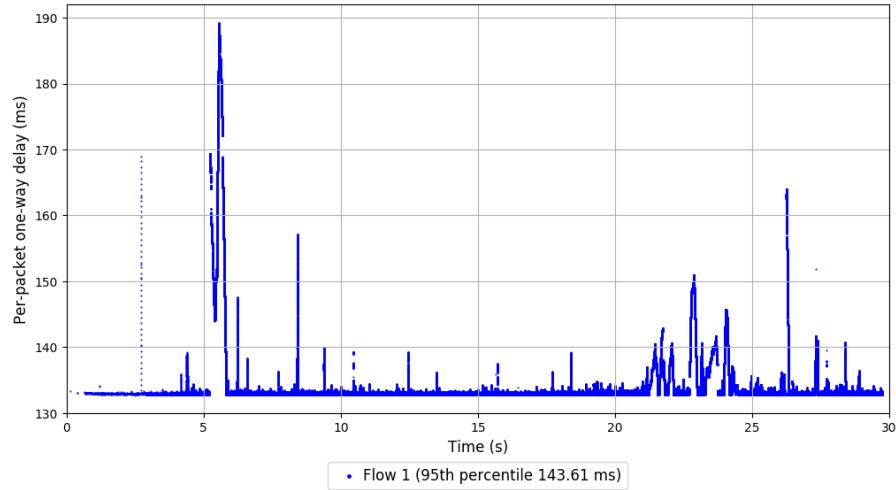
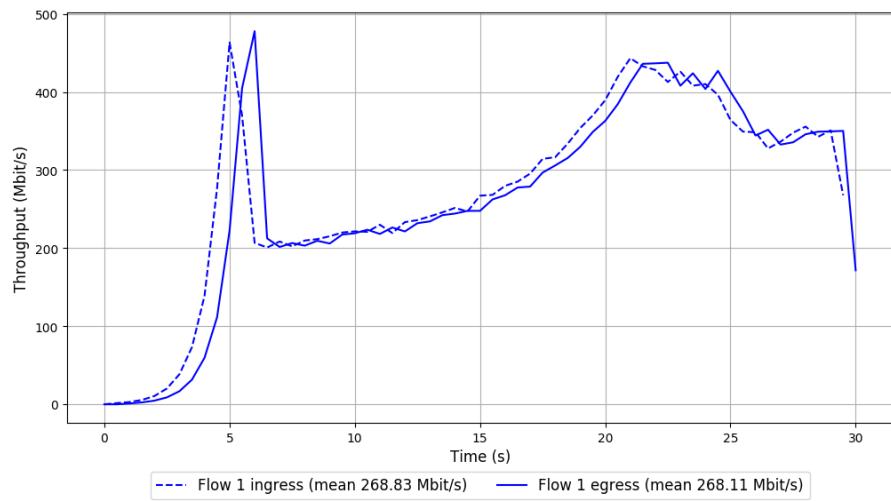


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-06-27 13:01:27
End at: 2019-06-27 13:01:57
Local clock offset: 0.022 ms
Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2019-06-27 15:29:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 268.11 Mbit/s
95th percentile per-packet one-way delay: 143.611 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 268.11 Mbit/s
95th percentile per-packet one-way delay: 143.611 ms
Loss rate: 1.16%
```

Run 4: Report of PCC-Vivace — Data Link

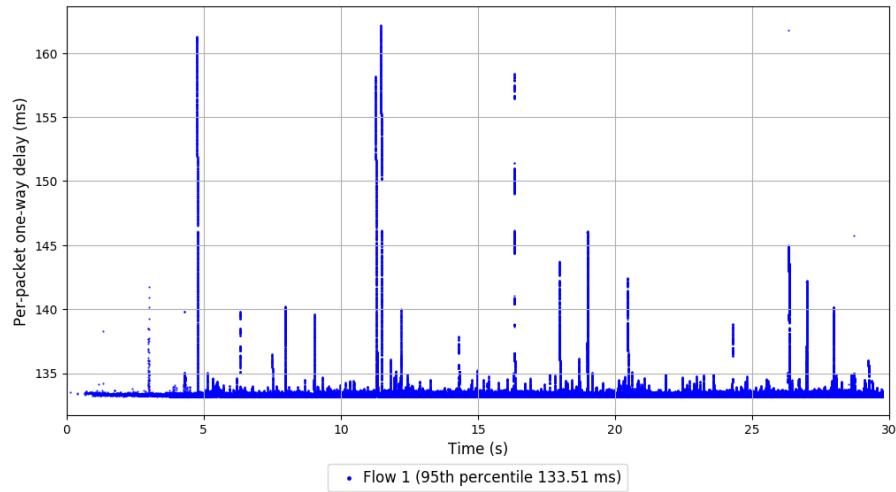
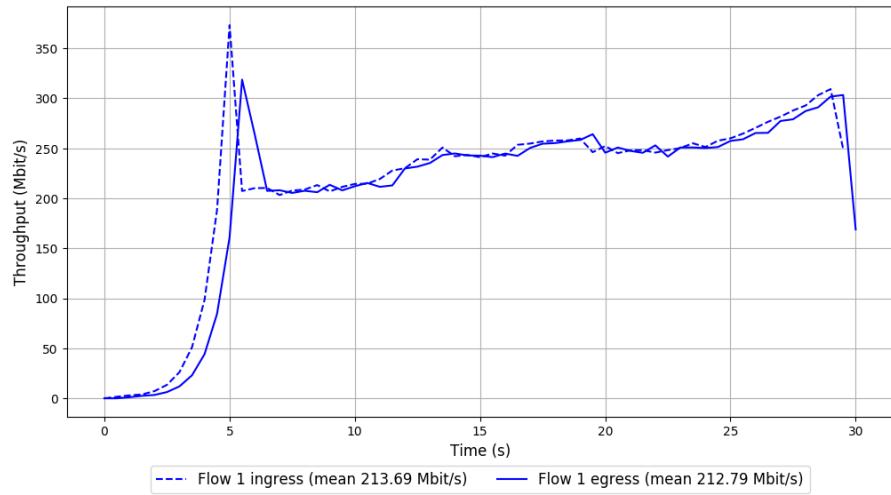


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-06-27 13:33:48
End at: 2019-06-27 13:34:18
Local clock offset: 0.387 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-06-27 15:29:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.79 Mbit/s
95th percentile per-packet one-way delay: 133.514 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 212.79 Mbit/s
95th percentile per-packet one-way delay: 133.514 ms
Loss rate: 1.31%
```

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

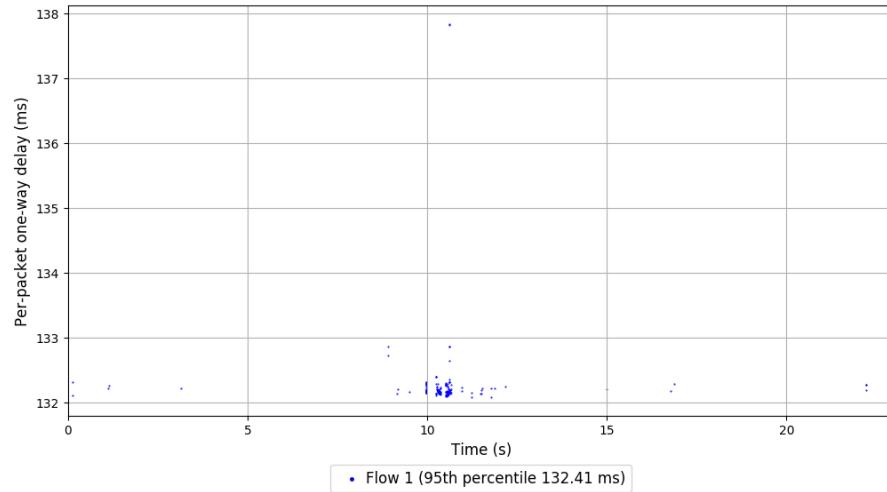
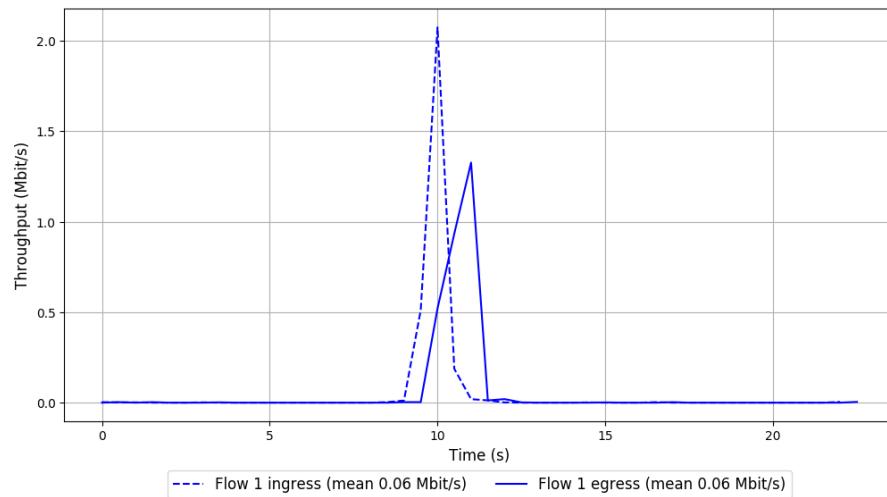
Start at: 2019-06-27 11:39:28

End at: 2019-06-27 11:39:58

Local clock offset: -0.097 ms

Remote clock offset: 0.255 ms

Run 1: Report of WebRTC media — Data Link

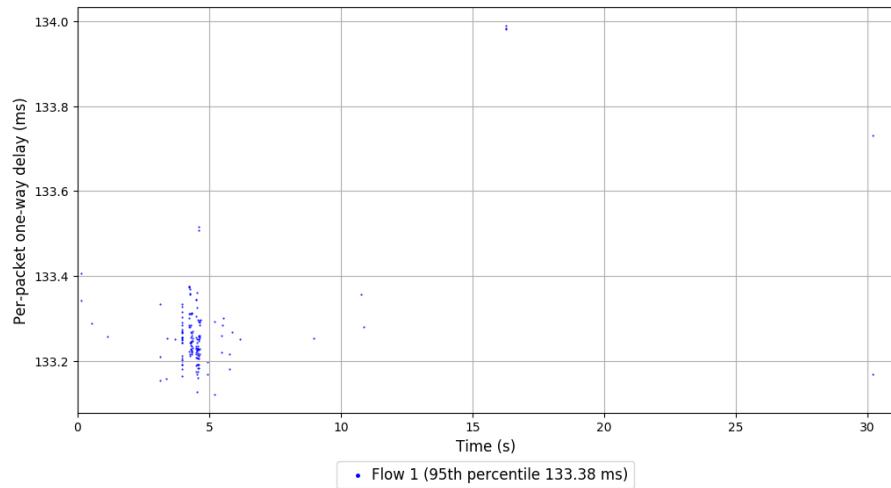
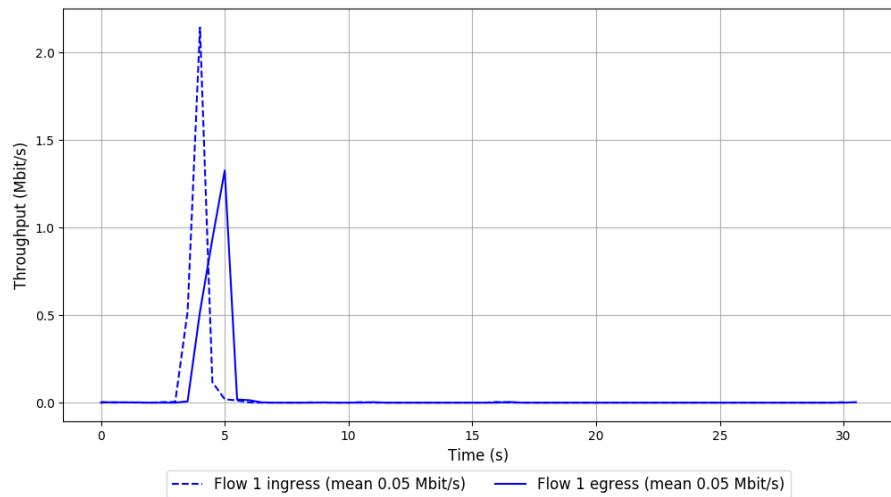


Run 2: Statistics of WebRTC media

```
Start at: 2019-06-27 12:11:18
End at: 2019-06-27 12:11:48
Local clock offset: 0.07 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-06-27 15:29:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.375 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.375 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

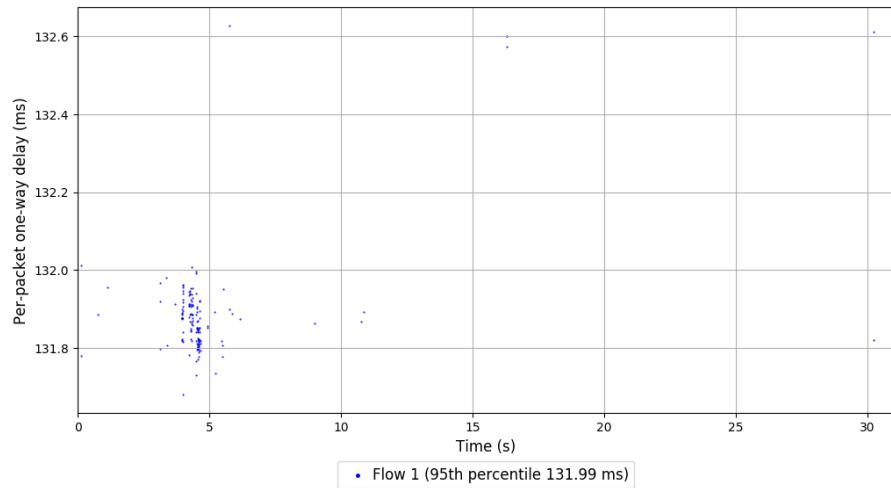
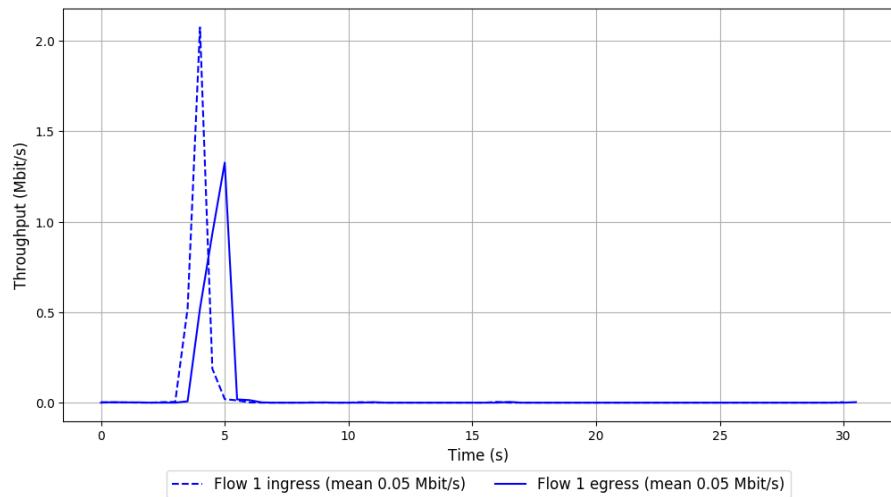


```
Run 3: Statistics of WebRTC media

Start at: 2019-06-27 12:43:42
End at: 2019-06-27 12:44:12
Local clock offset: -0.414 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-06-27 15:29:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 131.992 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 131.992 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

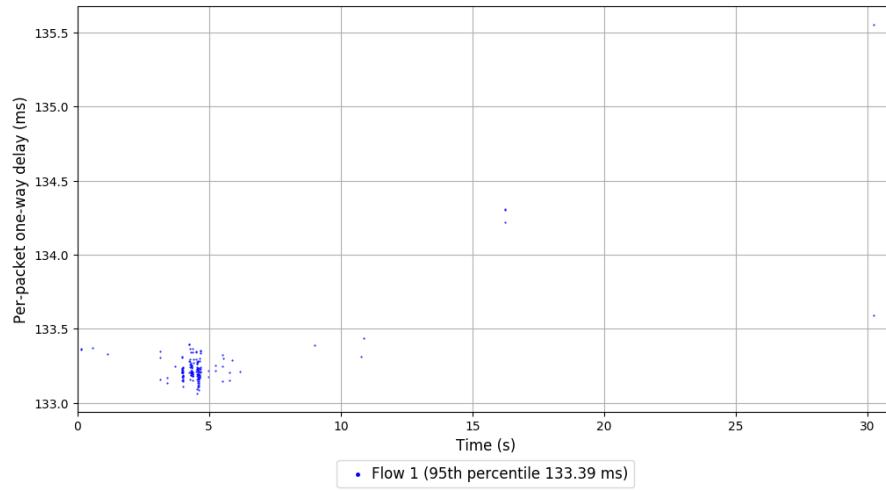
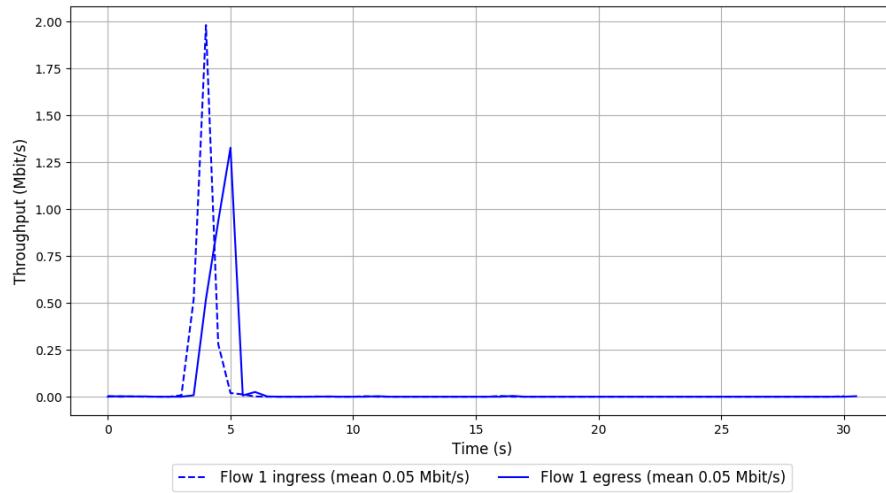


Run 4: Statistics of WebRTC media

```
Start at: 2019-06-27 13:16:03
End at: 2019-06-27 13:16:33
Local clock offset: 0.043 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-06-27 15:29:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.387 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.387 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-06-27 13:48:23
End at: 2019-06-27 13:48:53
Local clock offset: -0.265 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-06-27 15:29:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.793 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.793 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

