

Pantheon Report

Generated at 2019-03-27 09:36:45 (UTC).
Data path: GCE Tokyo on `ens4 (remote)` → GCE Iowa on `ens4 (local)`.
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

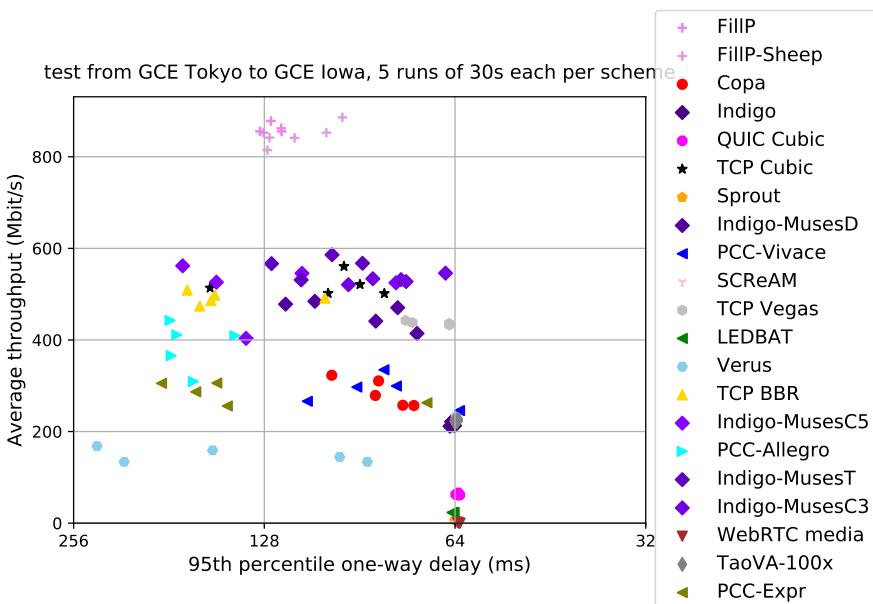
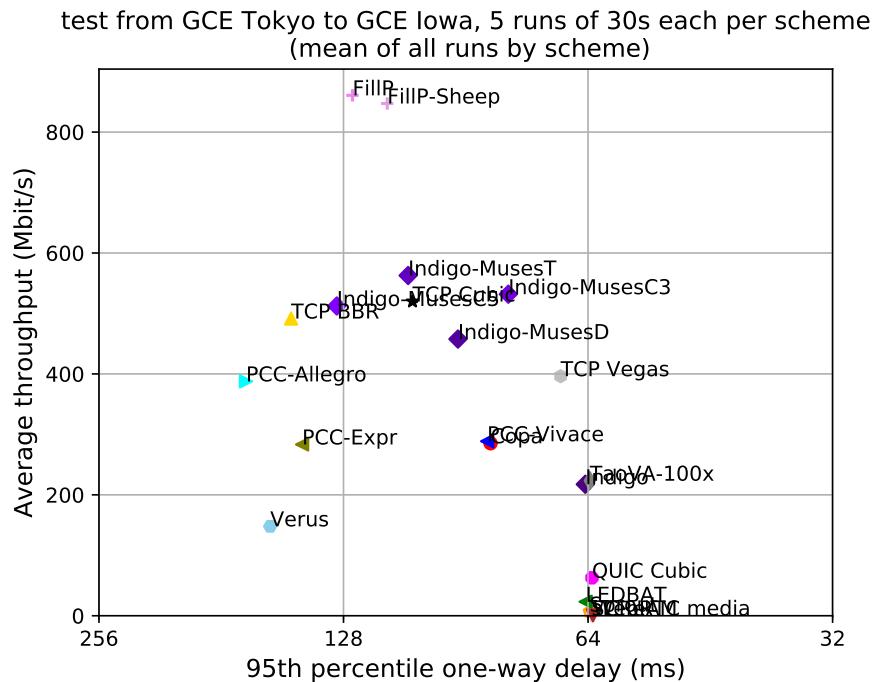
System info:

```
Linux 4.15.0-1028-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 @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
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/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851



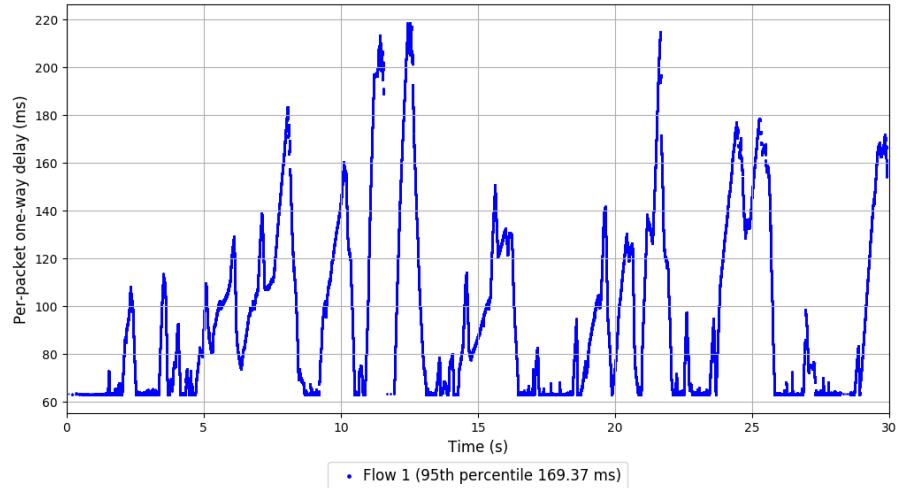
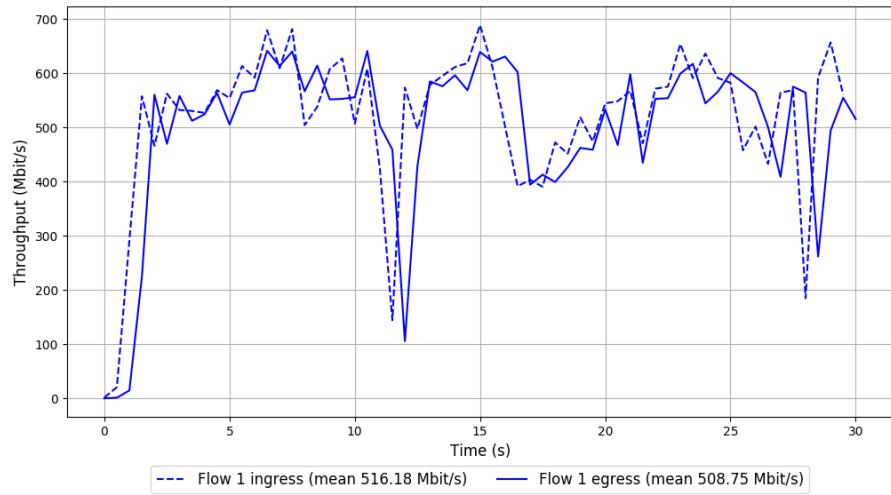
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	491.57	148.49	0.99
Copa	5	285.28	84.37	0.43
TCP Cubic	5	519.78	105.27	0.46
FillP	5	860.78	124.78	1.28
FillP-Sheep	5	847.28	113.08	0.77
Indigo	5	217.48	64.50	0.45
Indigo-MusesC3	5	531.87	80.23	0.48
Indigo-MusesC5	5	512.36	130.46	0.54
Indigo-MusesD	5	457.65	92.54	0.46
Indigo-MusesT	4	562.79	106.57	0.50
LEDBAT	5	23.16	64.44	0.84
PCC-Allegro	5	387.63	168.76	2.48
PCC-Expr	5	283.31	143.94	1.48
QUIC Cubic	4	62.80	63.29	0.72
SCReAM	5	0.22	63.41	0.38
Sprout	5	6.79	63.72	0.23
TaoVA-100x	5	223.33	63.69	0.49
TCP Vegas	5	396.23	69.17	0.44
Verus	5	147.88	157.59	2.96
PCC-Vivace	5	288.65	85.20	0.54
WebRTC media	4	0.59	63.12	0.14

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-27 05:35:53
End at: 2019-03-27 05:36:23
Local clock offset: -0.1 ms
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2019-03-27 08:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 508.75 Mbit/s
95th percentile per-packet one-way delay: 169.371 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 508.75 Mbit/s
95th percentile per-packet one-way delay: 169.371 ms
Loss rate: 1.86%
```

Run 1: Report of TCP BBR — Data Link

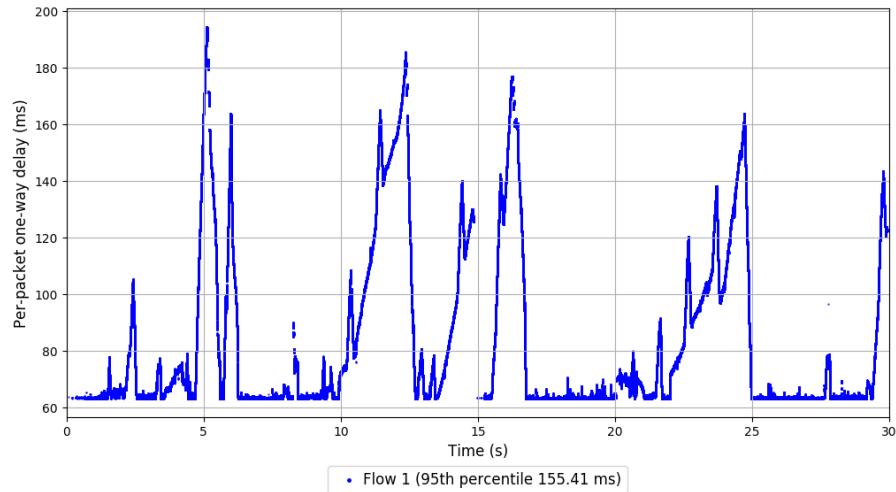
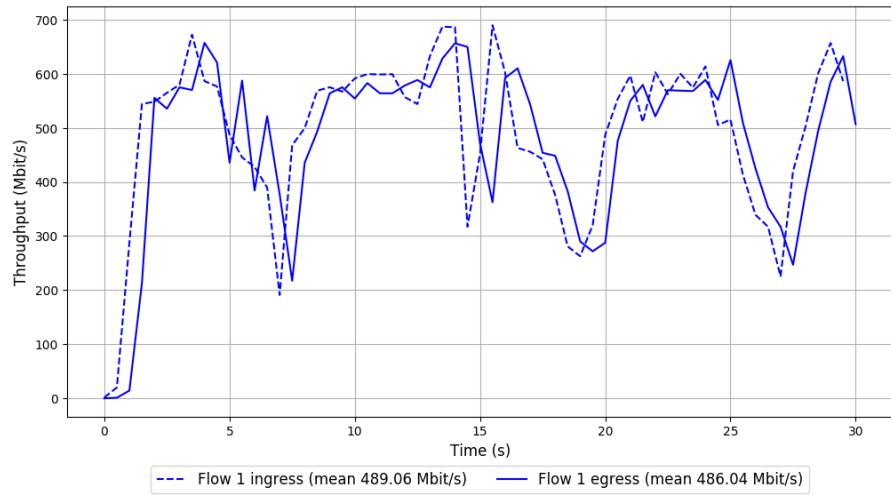


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-27 06:06:14
End at: 2019-03-27 06:06:44
Local clock offset: -0.116 ms
Remote clock offset: -0.181 ms

# Below is generated by plot.py at 2019-03-27 08:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 486.04 Mbit/s
95th percentile per-packet one-way delay: 155.408 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 486.04 Mbit/s
95th percentile per-packet one-way delay: 155.408 ms
Loss rate: 1.04%
```

Run 2: Report of TCP BBR — Data Link

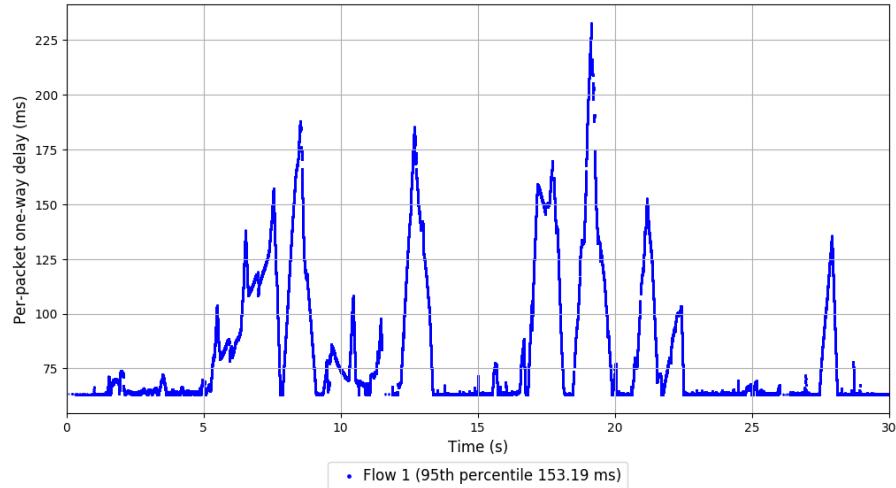
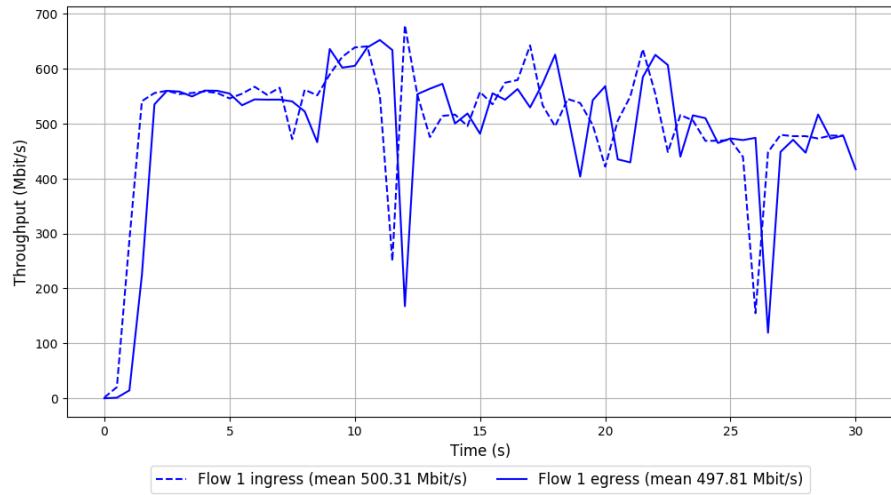


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-27 06:36:47
End at: 2019-03-27 06:37:17
Local clock offset: -0.077 ms
Remote clock offset: 0.271 ms

# Below is generated by plot.py at 2019-03-27 08:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 497.81 Mbit/s
95th percentile per-packet one-way delay: 153.185 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 497.81 Mbit/s
95th percentile per-packet one-way delay: 153.185 ms
Loss rate: 0.92%
```

Run 3: Report of TCP BBR — Data Link

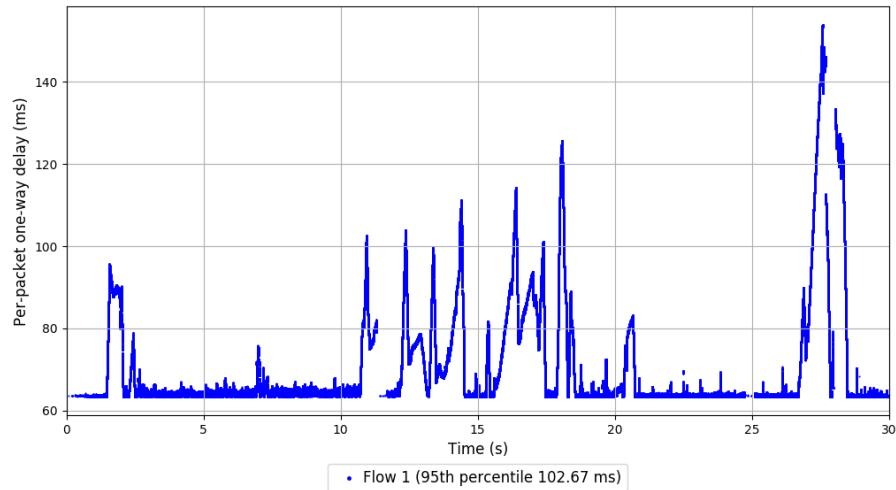
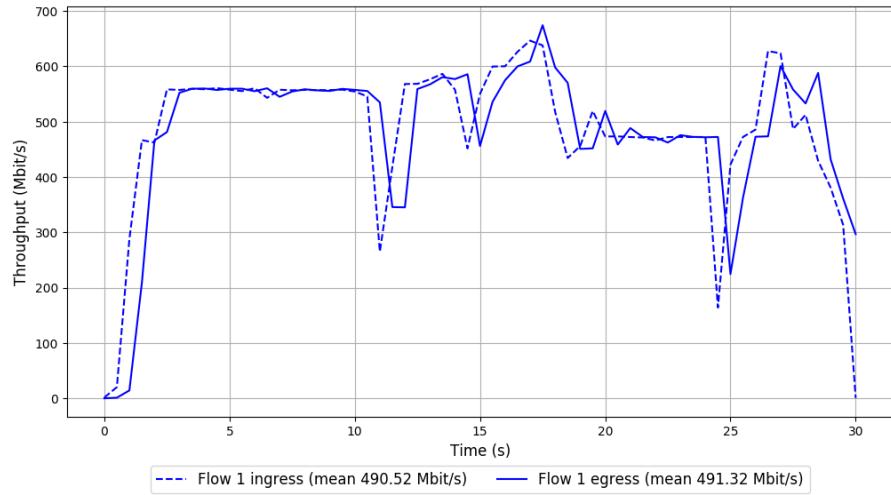


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-27 07:07:11
End at: 2019-03-27 07:07:41
Local clock offset: 0.0 ms
Remote clock offset: -0.427 ms

# Below is generated by plot.py at 2019-03-27 08:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 491.32 Mbit/s
95th percentile per-packet one-way delay: 102.669 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 491.32 Mbit/s
95th percentile per-packet one-way delay: 102.669 ms
Loss rate: 0.26%
```

Run 4: Report of TCP BBR — Data Link

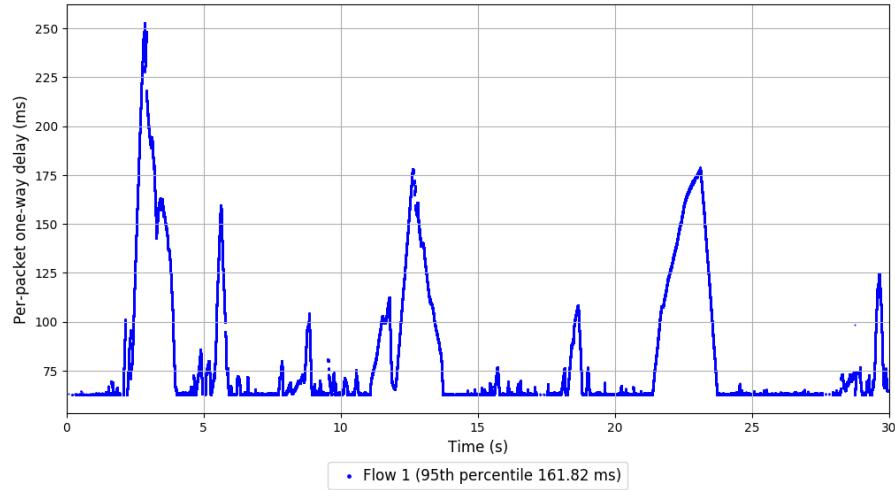
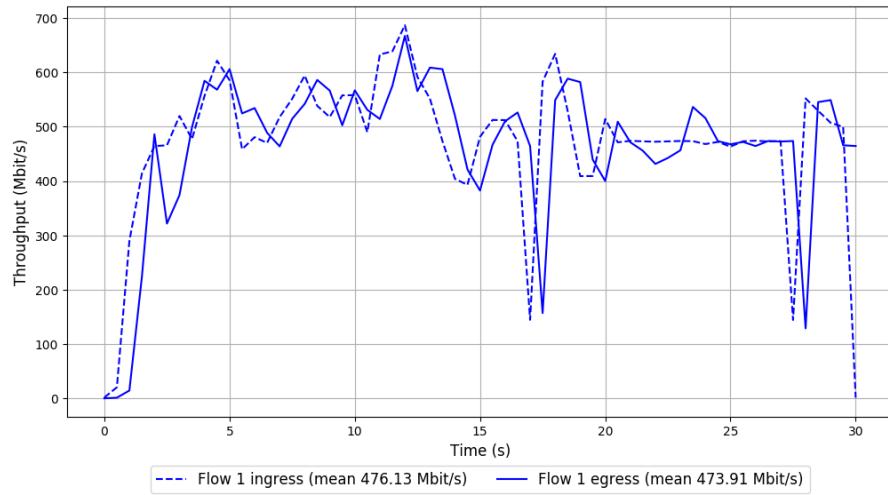


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-27 07:37:33
End at: 2019-03-27 07:38:03
Local clock offset: -0.076 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-03-27 08:07:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 473.91 Mbit/s
95th percentile per-packet one-way delay: 161.823 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 473.91 Mbit/s
95th percentile per-packet one-way delay: 161.823 ms
Loss rate: 0.89%
```

Run 5: Report of TCP BBR — Data Link

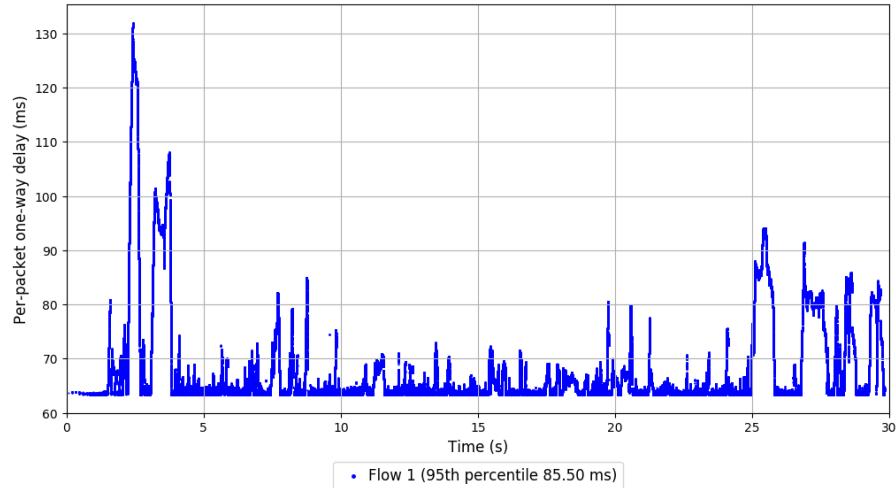
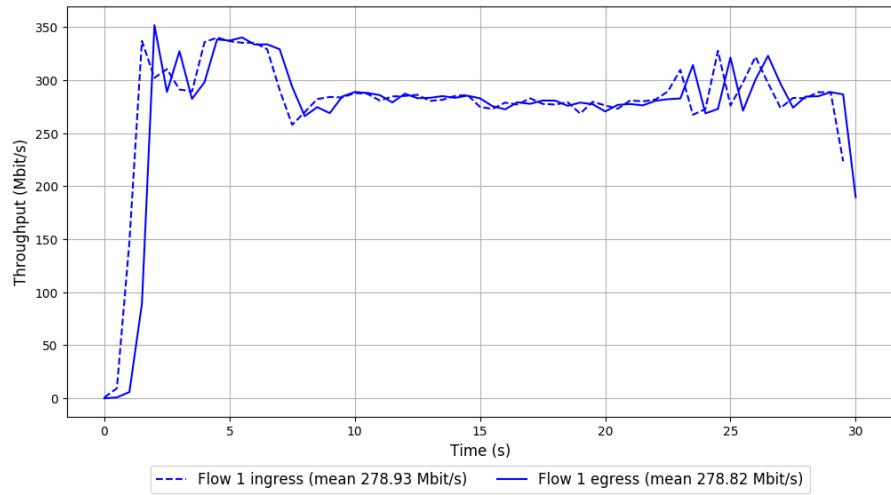


Run 1: Statistics of Copa

```
Start at: 2019-03-27 05:16:00
End at: 2019-03-27 05:16:30
Local clock offset: -0.075 ms
Remote clock offset: -0.783 ms

# Below is generated by plot.py at 2019-03-27 08:08:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.82 Mbit/s
95th percentile per-packet one-way delay: 85.497 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 278.82 Mbit/s
95th percentile per-packet one-way delay: 85.497 ms
Loss rate: 0.46%
```

Run 1: Report of Copa — Data Link

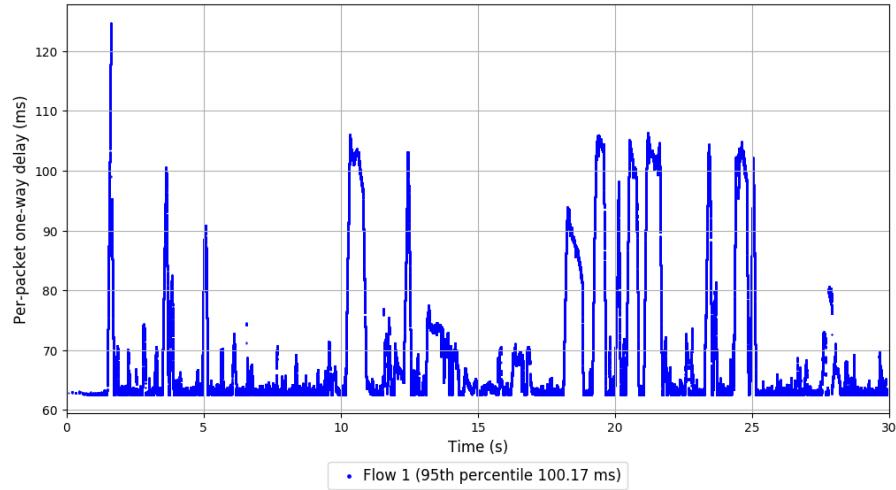
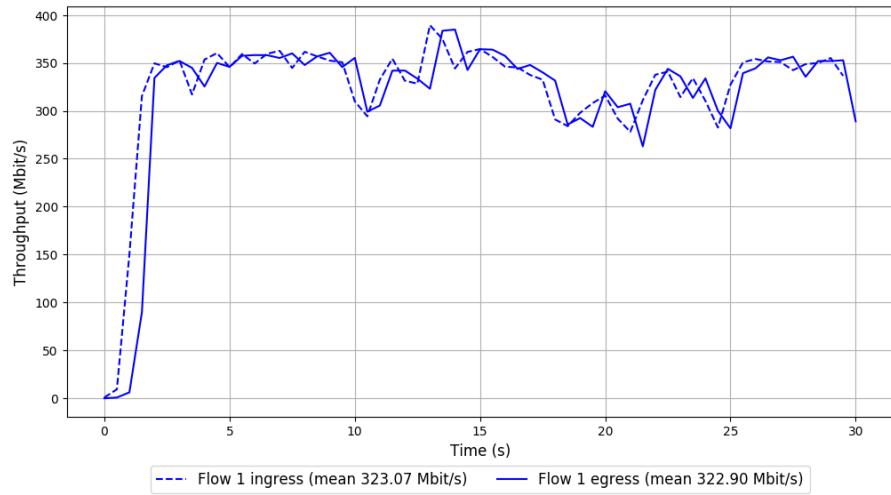


Run 2: Statistics of Copa

```
Start at: 2019-03-27 05:46:06
End at: 2019-03-27 05:46:36
Local clock offset: -0.103 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-03-27 08:09:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.90 Mbit/s
95th percentile per-packet one-way delay: 100.173 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 322.90 Mbit/s
95th percentile per-packet one-way delay: 100.173 ms
Loss rate: 0.47%
```

Run 2: Report of Copa — Data Link

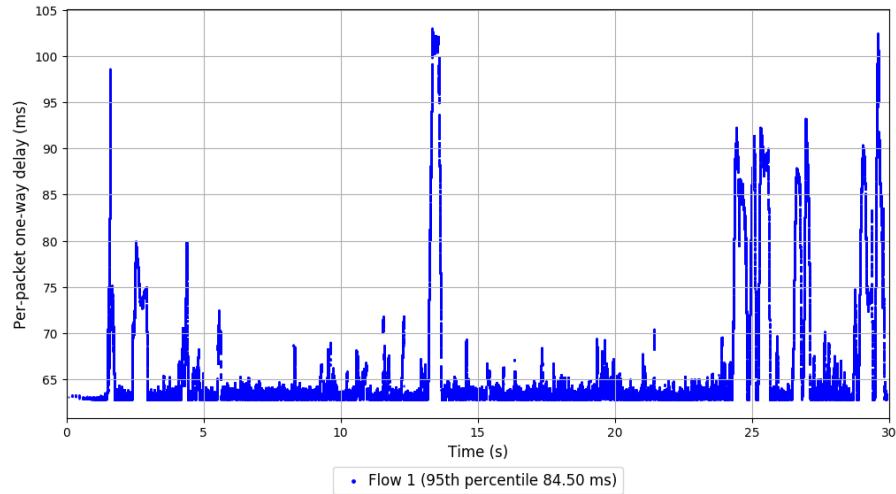
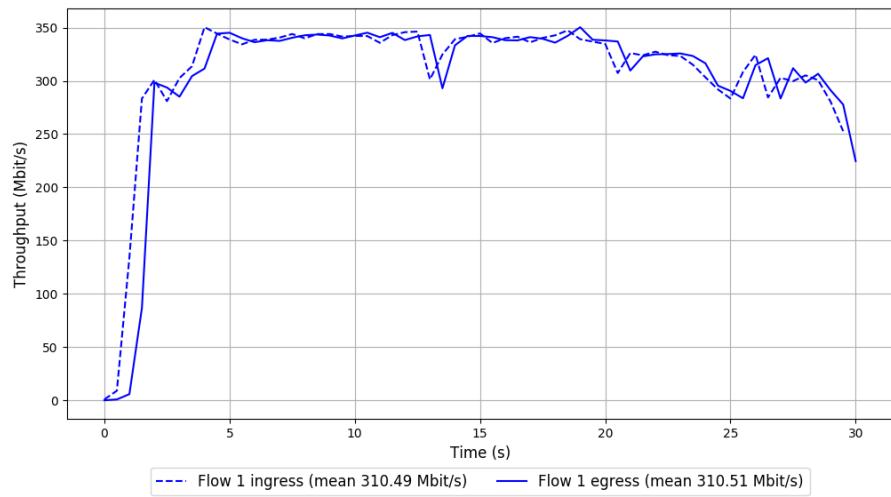


Run 3: Statistics of Copa

```
Start at: 2019-03-27 06:16:43
End at: 2019-03-27 06:17:13
Local clock offset: -0.107 ms
Remote clock offset: 0.112 ms

# Below is generated by plot.py at 2019-03-27 08:09:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.51 Mbit/s
95th percentile per-packet one-way delay: 84.501 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 310.51 Mbit/s
95th percentile per-packet one-way delay: 84.501 ms
Loss rate: 0.42%
```

Run 3: Report of Copa — Data Link

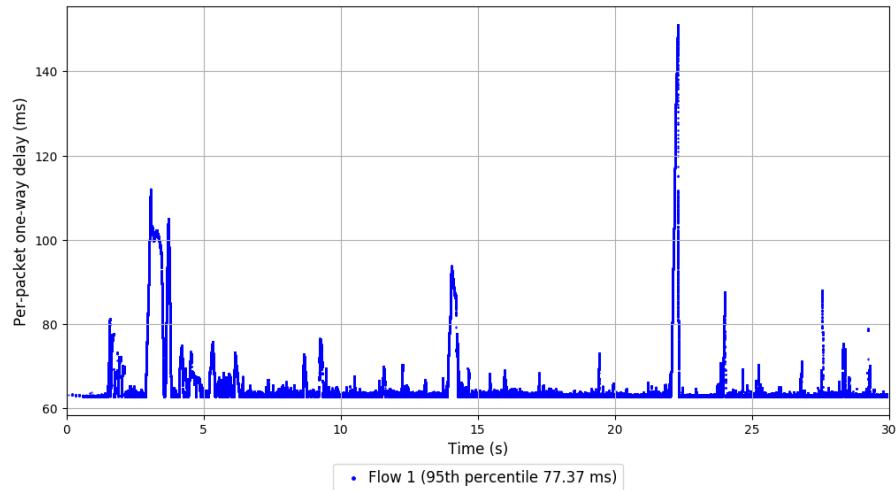
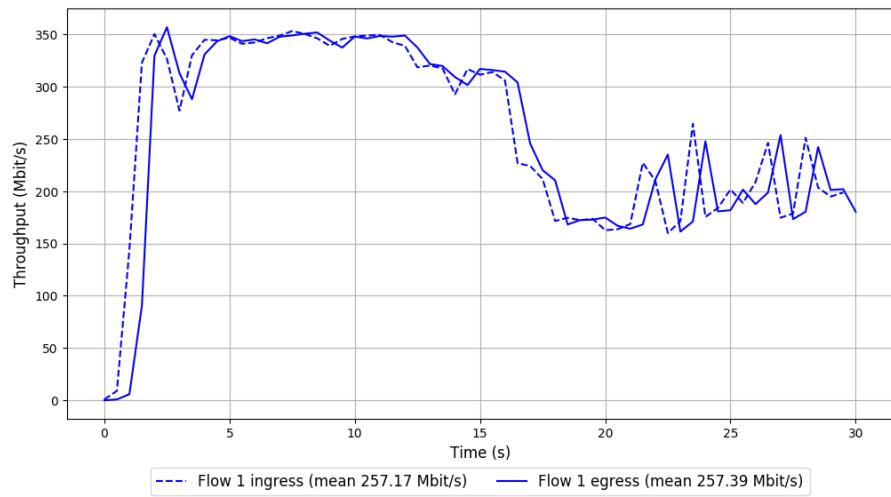


Run 4: Statistics of Copa

```
Start at: 2019-03-27 06:47:08
End at: 2019-03-27 06:47:38
Local clock offset: -0.102 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-03-27 08:15:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.39 Mbit/s
95th percentile per-packet one-way delay: 77.374 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 257.39 Mbit/s
95th percentile per-packet one-way delay: 77.374 ms
Loss rate: 0.34%
```

Run 4: Report of Copa — Data Link

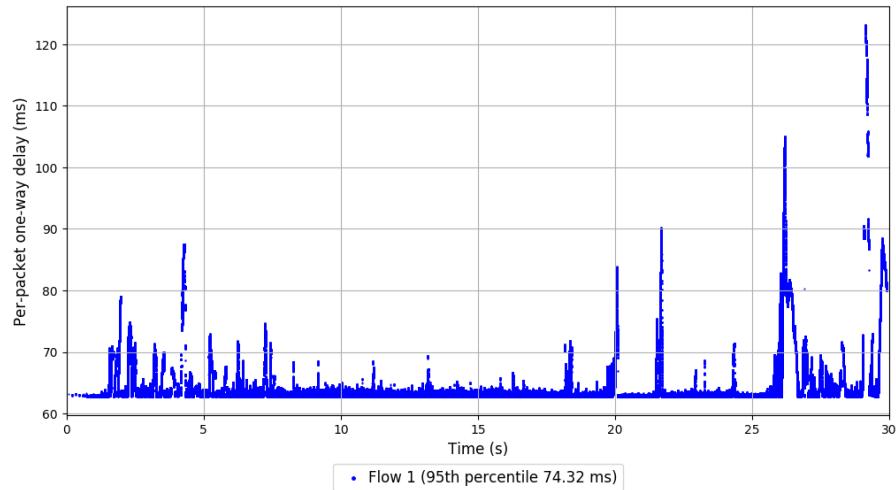
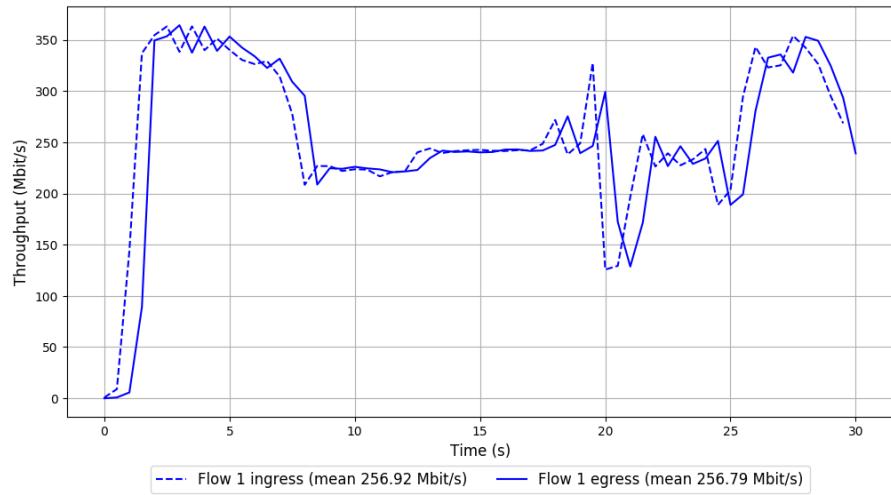


Run 5: Statistics of Copa

```
Start at: 2019-03-27 07:17:34
End at: 2019-03-27 07:18:04
Local clock offset: -0.018 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-03-27 08:15:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.79 Mbit/s
95th percentile per-packet one-way delay: 74.323 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 256.79 Mbit/s
95th percentile per-packet one-way delay: 74.323 ms
Loss rate: 0.47%
```

Run 5: Report of Copa — Data Link

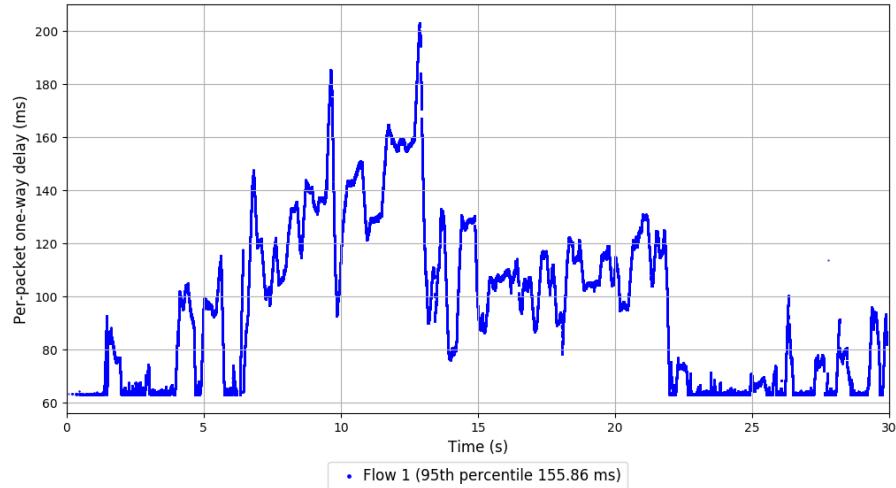
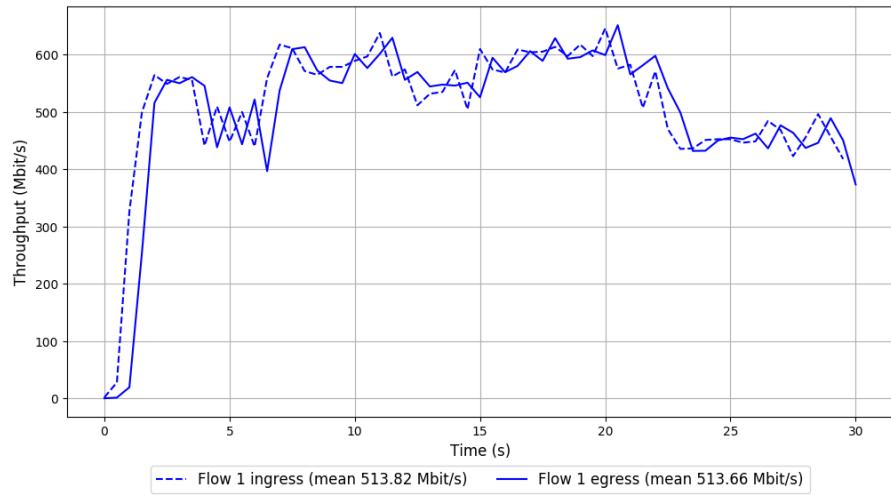


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-03-27 05:43:24
End at: 2019-03-27 05:43:54
Local clock offset: -0.105 ms
Remote clock offset: -0.297 ms

# Below is generated by plot.py at 2019-03-27 08:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 513.66 Mbit/s
95th percentile per-packet one-way delay: 155.858 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 513.66 Mbit/s
95th percentile per-packet one-way delay: 155.858 ms
Loss rate: 0.45%
```

Run 1: Report of TCP Cubic — Data Link

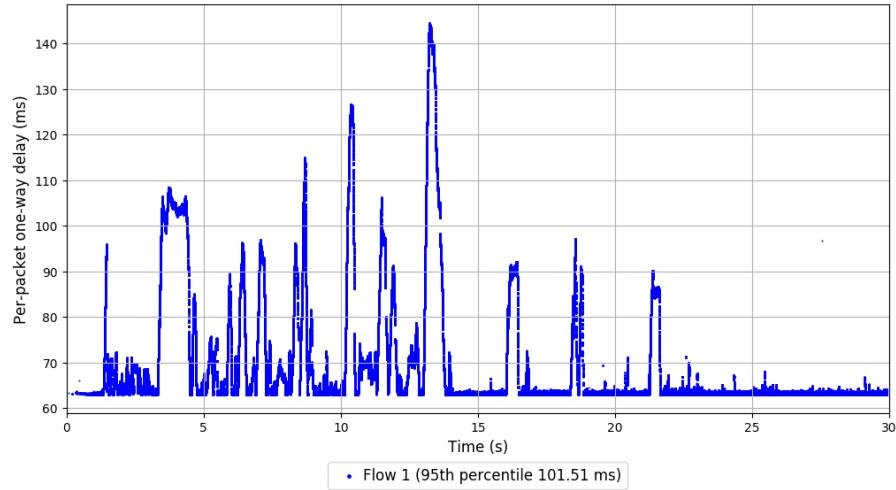
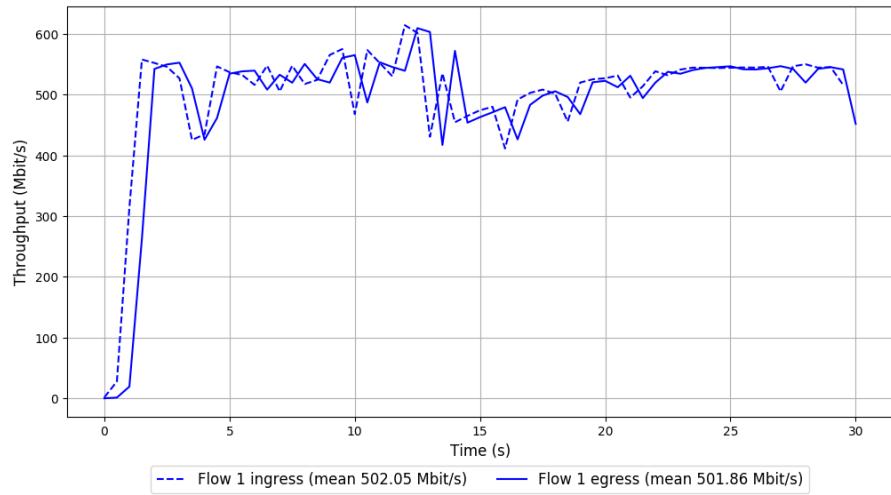


Run 2: Statistics of TCP Cubic

```
Start at: 2019-03-27 06:14:02
End at: 2019-03-27 06:14:32
Local clock offset: -0.091 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-03-27 08:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 501.86 Mbit/s
95th percentile per-packet one-way delay: 101.510 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 501.86 Mbit/s
95th percentile per-packet one-way delay: 101.510 ms
Loss rate: 0.46%
```

Run 2: Report of TCP Cubic — Data Link

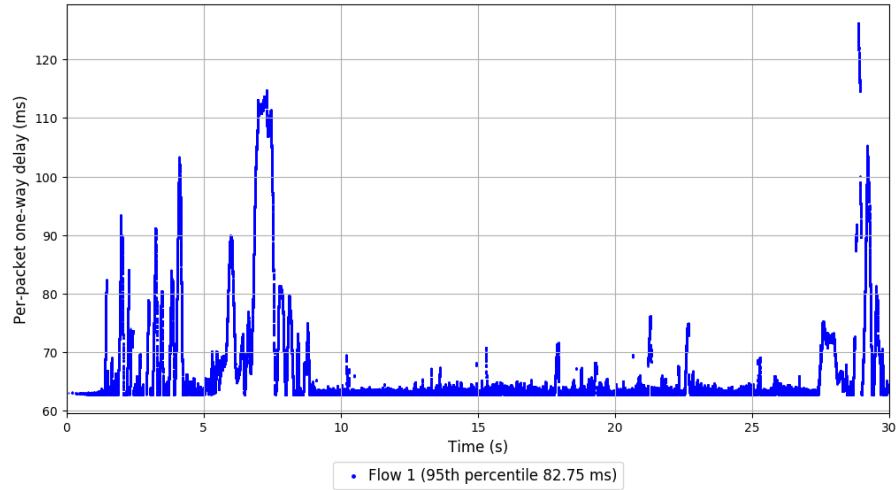
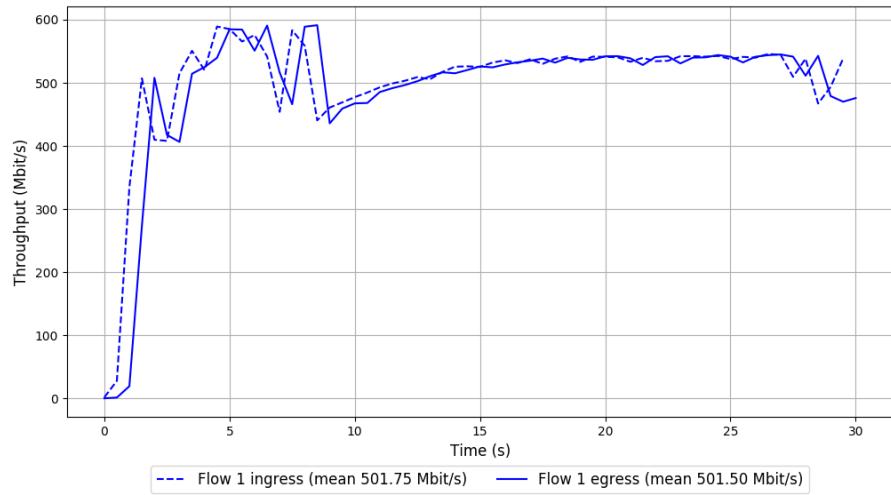


Run 3: Statistics of TCP Cubic

```
Start at: 2019-03-27 06:44:27
End at: 2019-03-27 06:44:57
Local clock offset: -0.12 ms
Remote clock offset: 0.36 ms

# Below is generated by plot.py at 2019-03-27 08:16:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 501.50 Mbit/s
95th percentile per-packet one-way delay: 82.745 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 501.50 Mbit/s
95th percentile per-packet one-way delay: 82.745 ms
Loss rate: 0.47%
```

Run 3: Report of TCP Cubic — Data Link

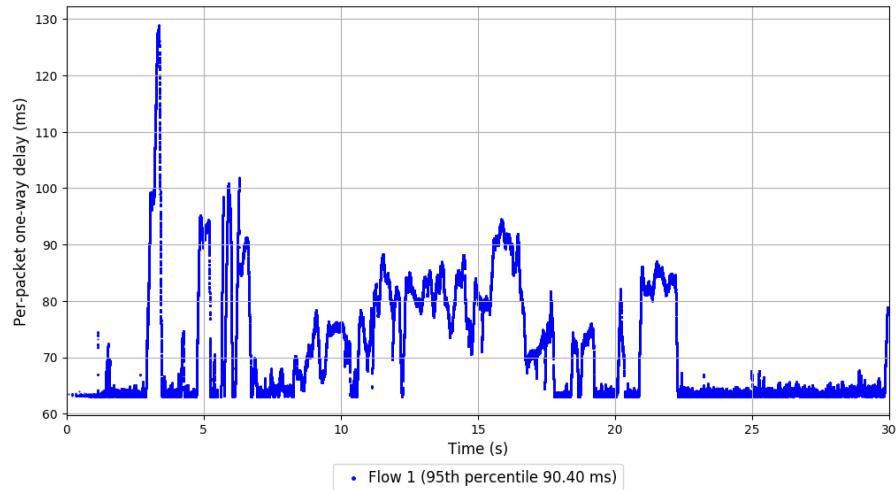
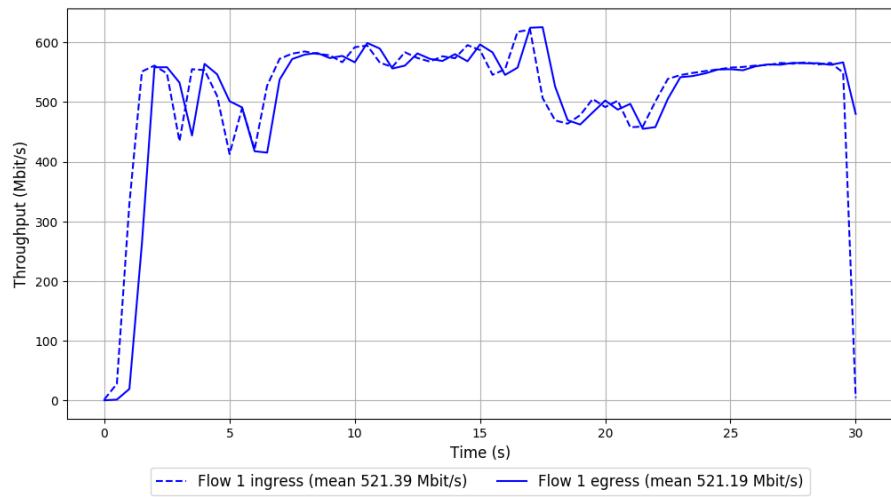


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-27 07:14:52
End at: 2019-03-27 07:15:23
Local clock offset: 0.015 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-03-27 08:16:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 521.19 Mbit/s
95th percentile per-packet one-way delay: 90.403 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 521.19 Mbit/s
95th percentile per-packet one-way delay: 90.403 ms
Loss rate: 0.46%
```

Run 4: Report of TCP Cubic — Data Link

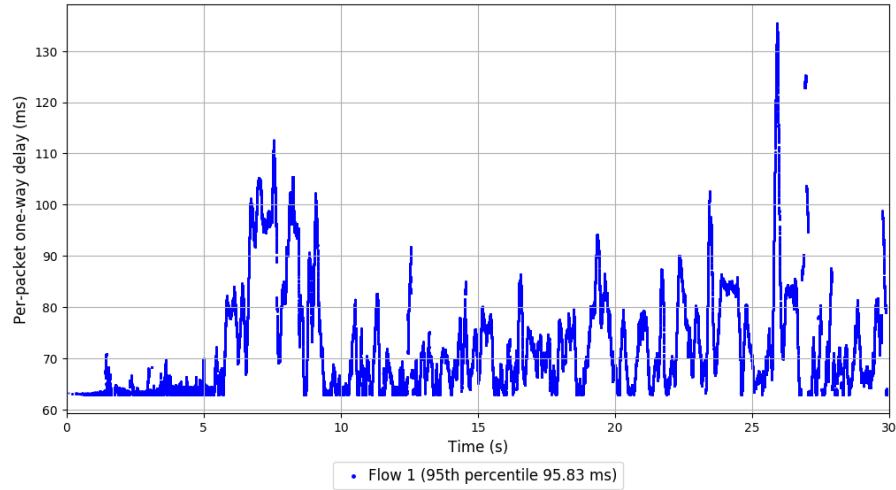
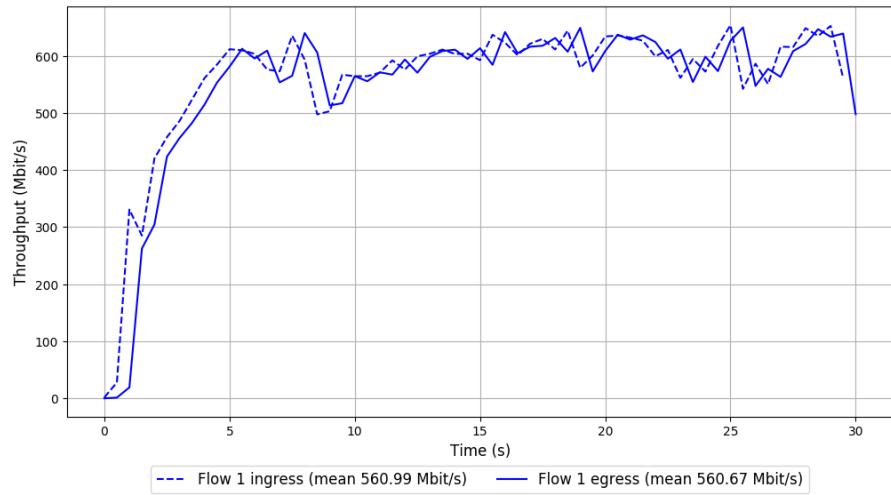


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-27 07:45:10
End at: 2019-03-27 07:45:40
Local clock offset: -0.087 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-03-27 08:18:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 560.67 Mbit/s
95th percentile per-packet one-way delay: 95.828 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 560.67 Mbit/s
95th percentile per-packet one-way delay: 95.828 ms
Loss rate: 0.48%
```

Run 5: Report of TCP Cubic — Data Link

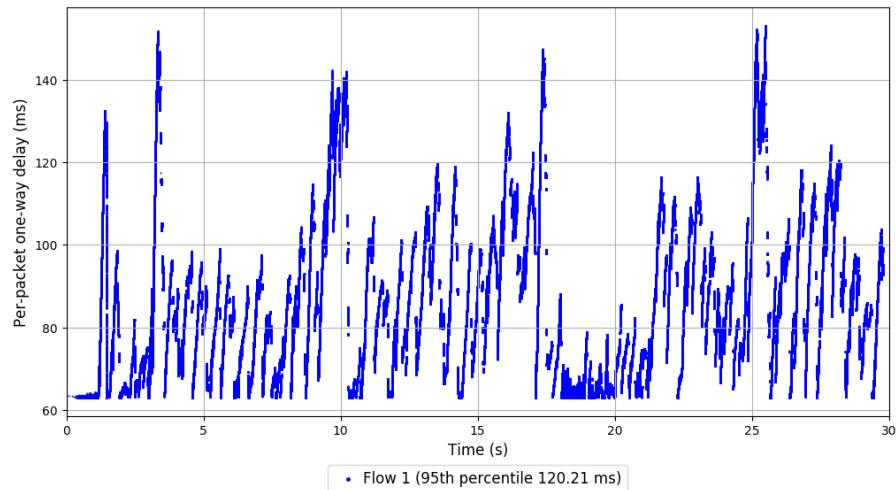
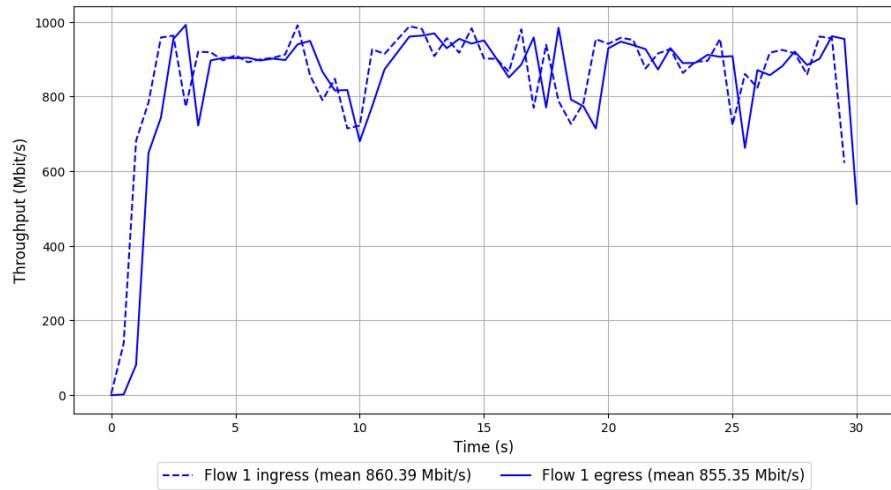


```
Run 1: Statistics of FillP

Start at: 2019-03-27 05:38:49
End at: 2019-03-27 05:39:19
Local clock offset: -0.114 ms
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2019-03-27 08:25:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 855.35 Mbit/s
95th percentile per-packet one-way delay: 120.208 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 855.35 Mbit/s
95th percentile per-packet one-way delay: 120.208 ms
Loss rate: 1.01%
```

Run 1: Report of FillP — Data Link

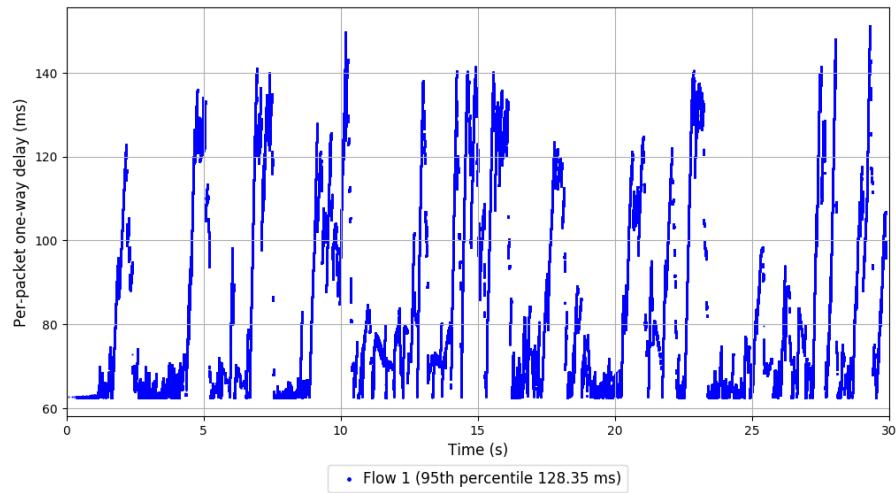
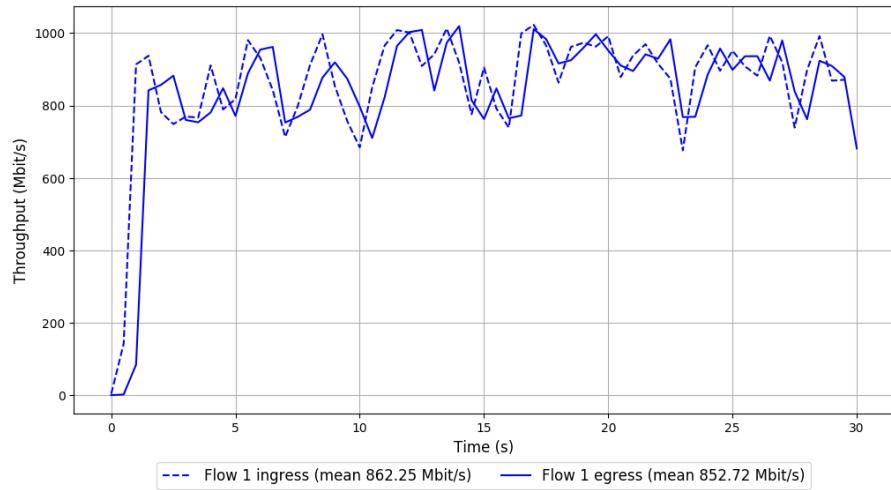


Run 2: Statistics of FillP

```
Start at: 2019-03-27 06:09:15
End at: 2019-03-27 06:09:45
Local clock offset: -0.144 ms
Remote clock offset: 0.1 ms

# Below is generated by plot.py at 2019-03-27 08:33:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 852.72 Mbit/s
95th percentile per-packet one-way delay: 128.352 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 852.72 Mbit/s
95th percentile per-packet one-way delay: 128.352 ms
Loss rate: 1.53%
```

Run 2: Report of FillP — Data Link

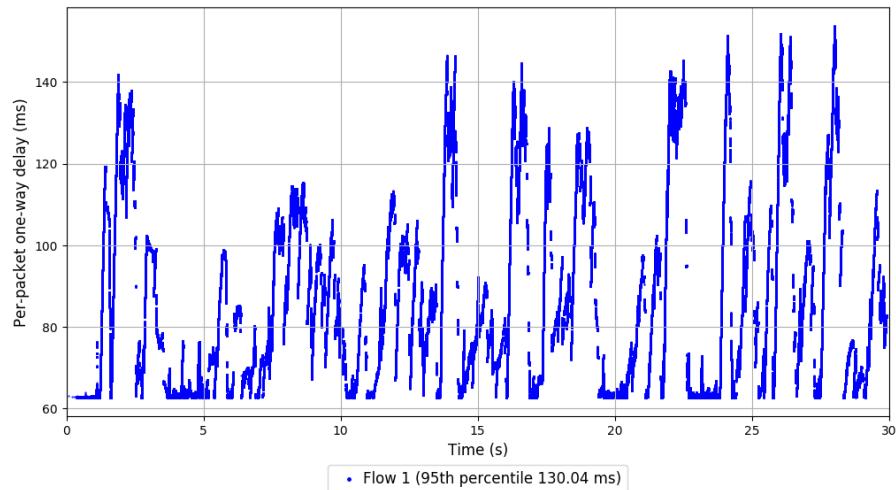
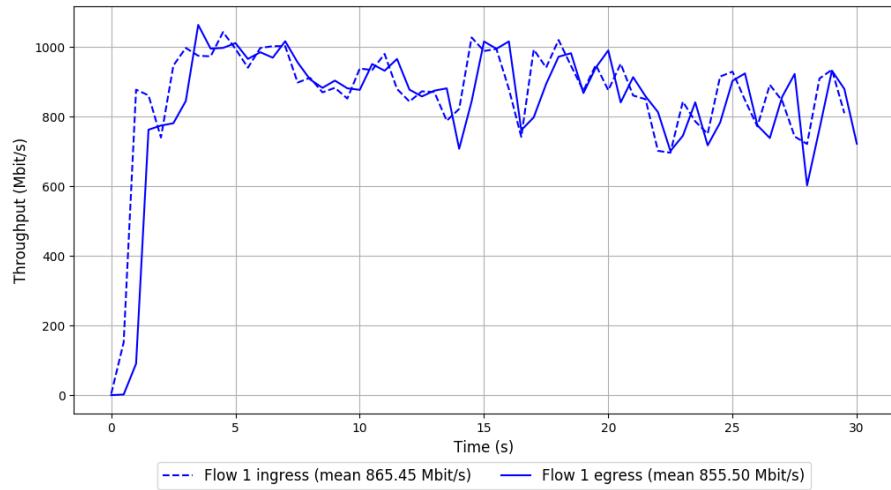


Run 3: Statistics of FillP

```
Start at: 2019-03-27 06:39:42
End at: 2019-03-27 06:40:13
Local clock offset: -0.079 ms
Remote clock offset: 0.383 ms

# Below is generated by plot.py at 2019-03-27 08:34:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 855.50 Mbit/s
95th percentile per-packet one-way delay: 130.045 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 855.50 Mbit/s
95th percentile per-packet one-way delay: 130.045 ms
Loss rate: 1.57%
```

Run 3: Report of FillP — Data Link

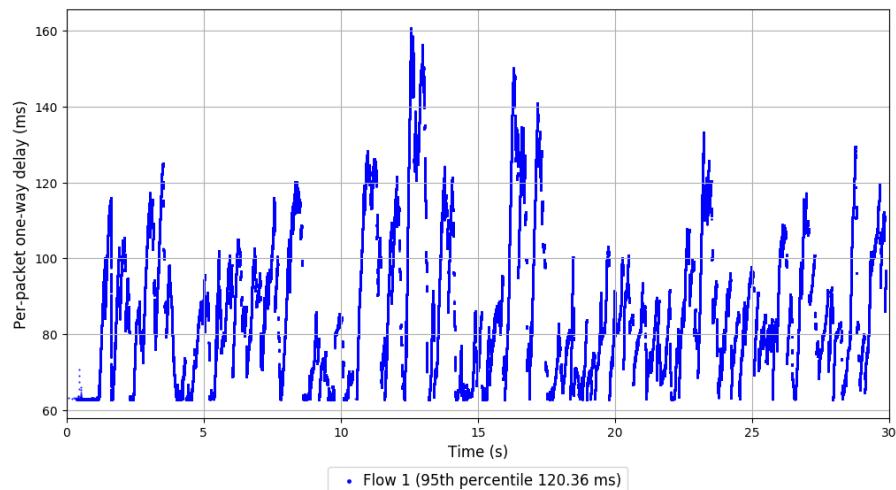
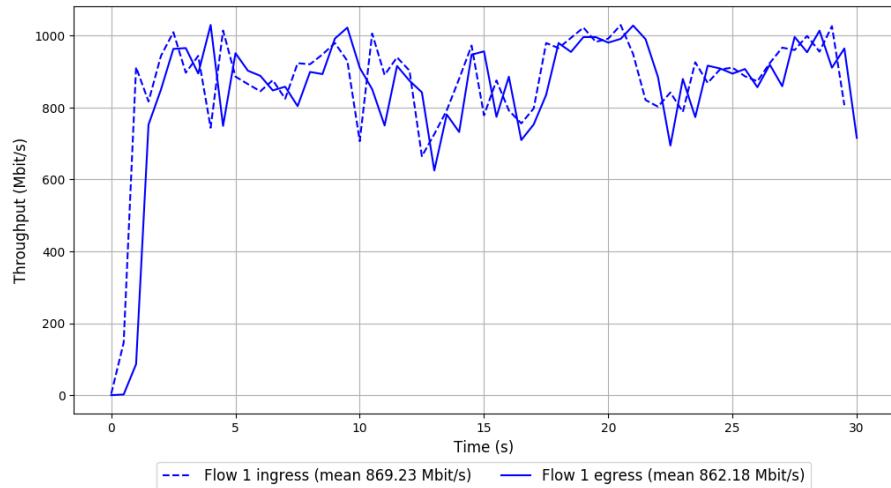


Run 4: Statistics of FillP

```
Start at: 2019-03-27 07:10:07
End at: 2019-03-27 07:10:37
Local clock offset: -0.033 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-03-27 08:34:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 862.18 Mbit/s
95th percentile per-packet one-way delay: 120.365 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 862.18 Mbit/s
95th percentile per-packet one-way delay: 120.365 ms
Loss rate: 1.20%
```

Run 4: Report of FillP — Data Link

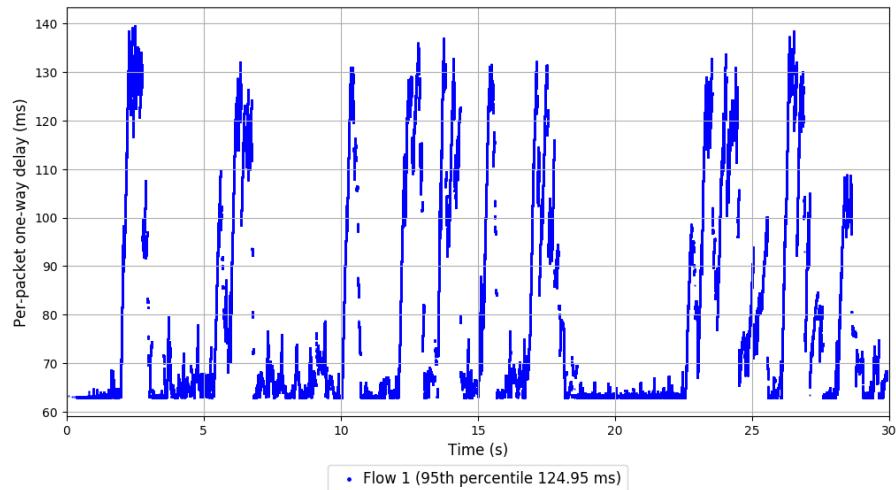
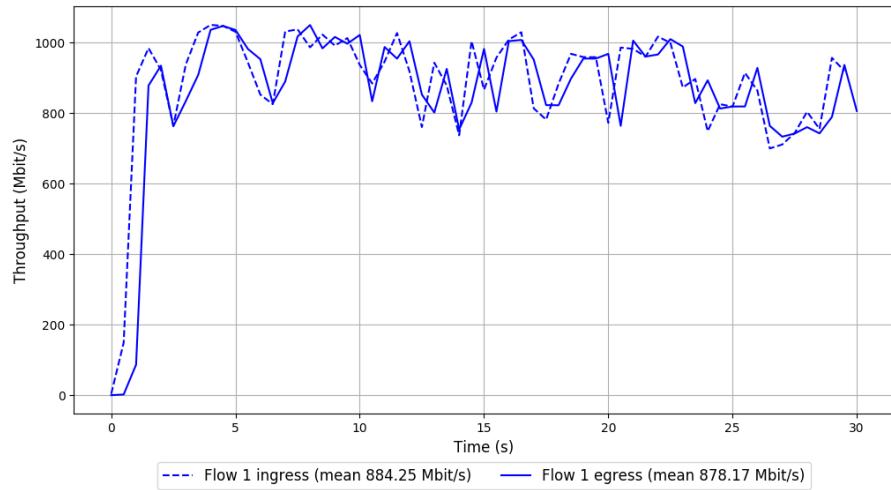


Run 5: Statistics of FillP

```
Start at: 2019-03-27 07:40:29
End at: 2019-03-27 07:40:59
Local clock offset: -0.088 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-03-27 08:34:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 878.17 Mbit/s
95th percentile per-packet one-way delay: 124.946 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 878.17 Mbit/s
95th percentile per-packet one-way delay: 124.946 ms
Loss rate: 1.11%
```

Run 5: Report of FillP — Data Link

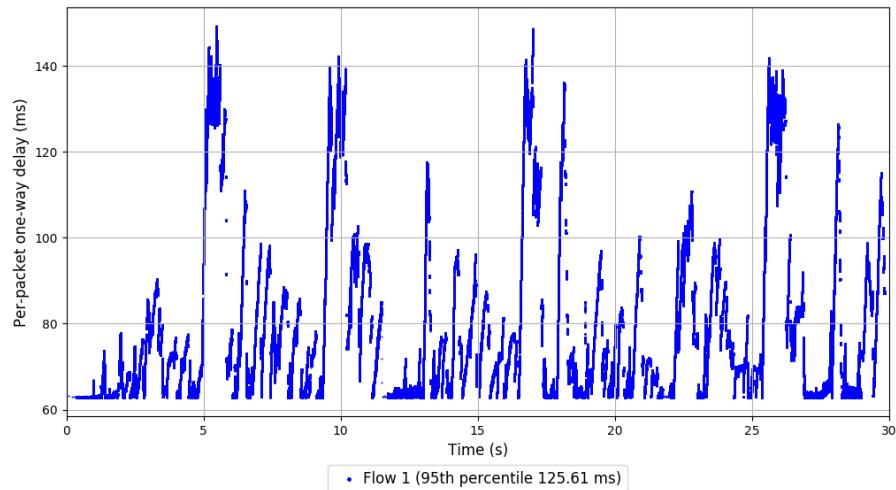
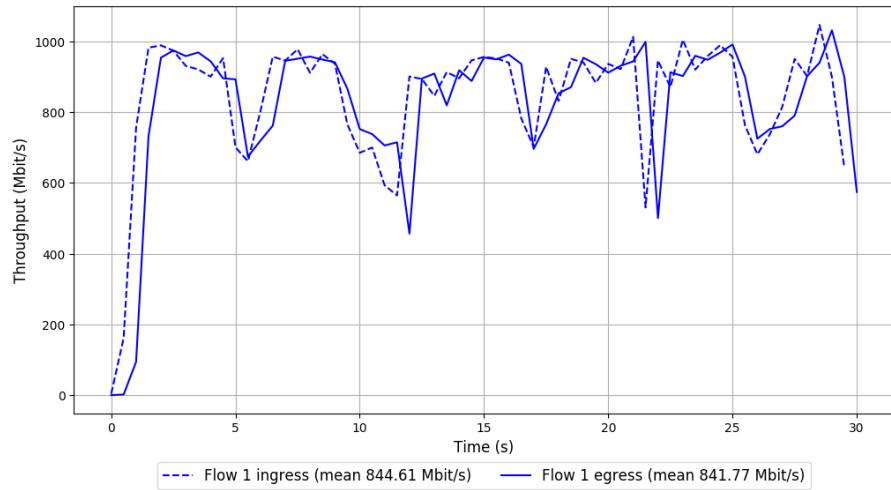


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-03-27 05:20:19
End at: 2019-03-27 05:20:49
Local clock offset: -0.035 ms
Remote clock offset: -0.295 ms

# Below is generated by plot.py at 2019-03-27 08:34:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 841.77 Mbit/s
95th percentile per-packet one-way delay: 125.606 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 841.77 Mbit/s
95th percentile per-packet one-way delay: 125.606 ms
Loss rate: 0.76%
```

Run 1: Report of FillP-Sheep — Data Link

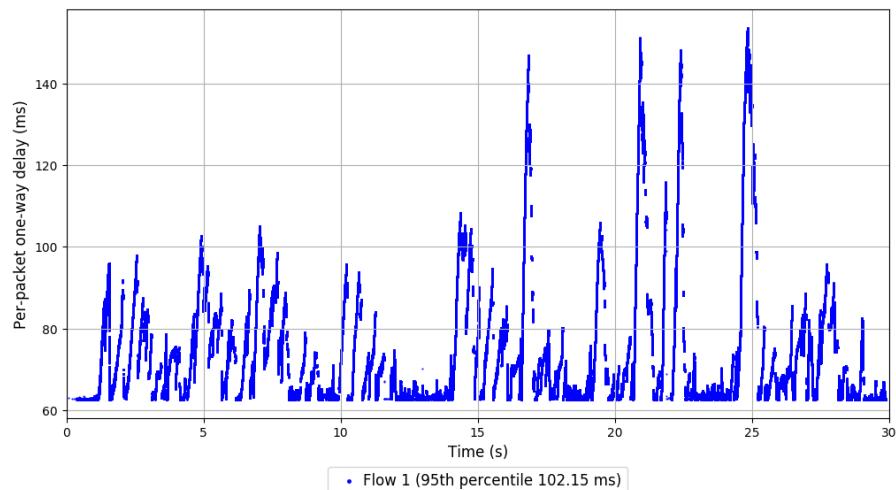
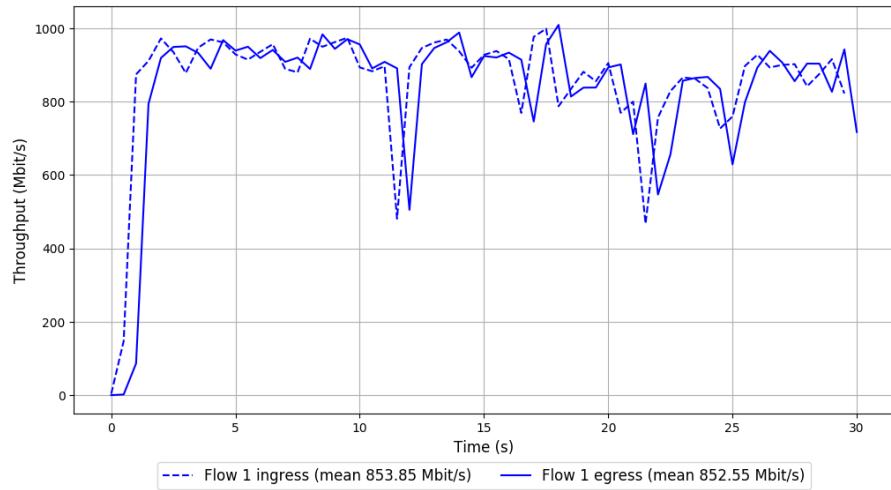


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-27 05:50:28
End at: 2019-03-27 05:50:58
Local clock offset: -0.064 ms
Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2019-03-27 08:34:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 852.55 Mbit/s
95th percentile per-packet one-way delay: 102.150 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 852.55 Mbit/s
95th percentile per-packet one-way delay: 102.150 ms
Loss rate: 0.58%
```

Run 2: Report of FillP-Sheep — Data Link

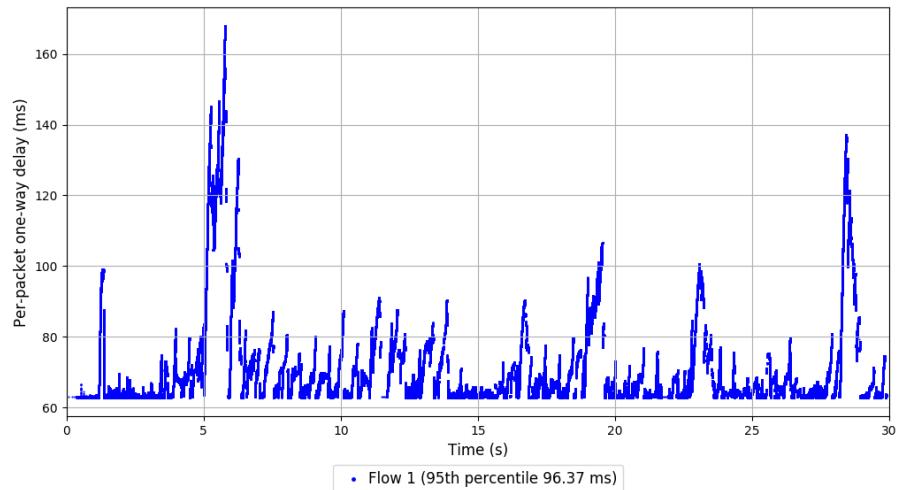
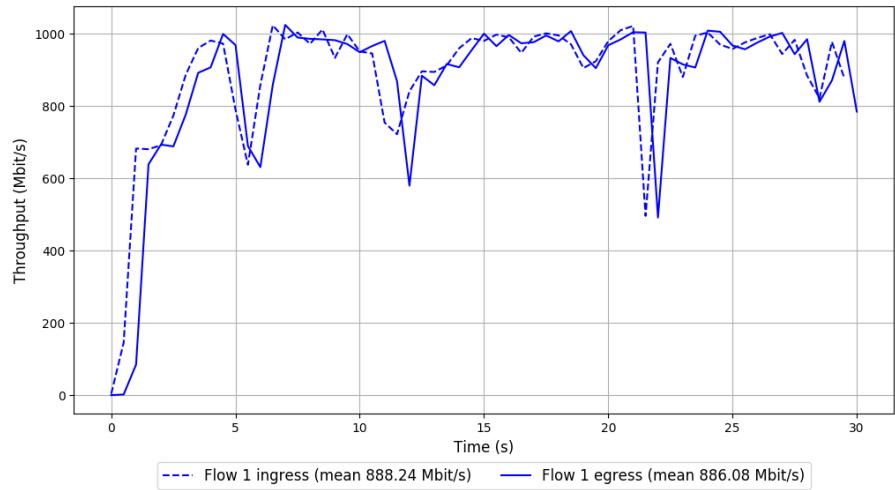


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-27 06:21:07
End at: 2019-03-27 06:21:37
Local clock offset: -0.088 ms
Remote clock offset: 0.203 ms

# Below is generated by plot.py at 2019-03-27 08:37:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 886.08 Mbit/s
95th percentile per-packet one-way delay: 96.374 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 886.08 Mbit/s
95th percentile per-packet one-way delay: 96.374 ms
Loss rate: 0.67%
```

Run 3: Report of FillP-Sheep — Data Link

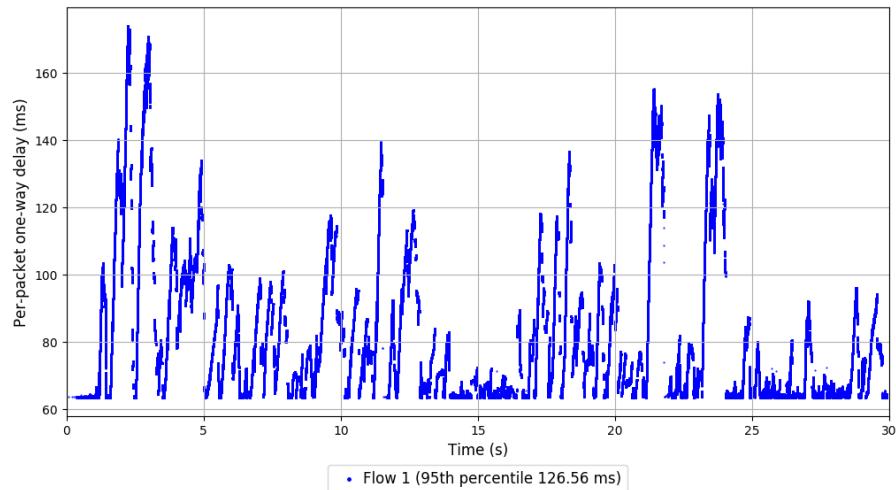
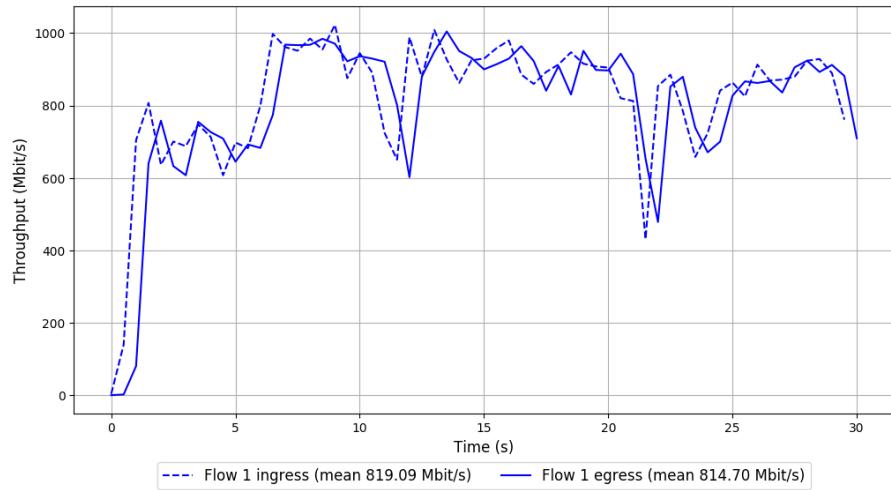


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-27 06:51:20
End at: 2019-03-27 06:51:50
Local clock offset: -0.104 ms
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2019-03-27 08:45:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 814.70 Mbit/s
95th percentile per-packet one-way delay: 126.562 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 814.70 Mbit/s
95th percentile per-packet one-way delay: 126.562 ms
Loss rate: 0.96%
```

Run 4: Report of FillP-Sheep — Data Link

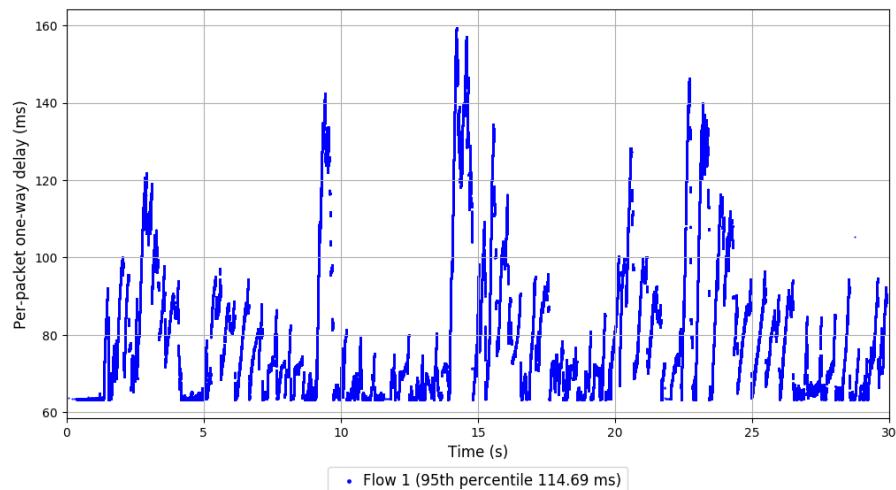
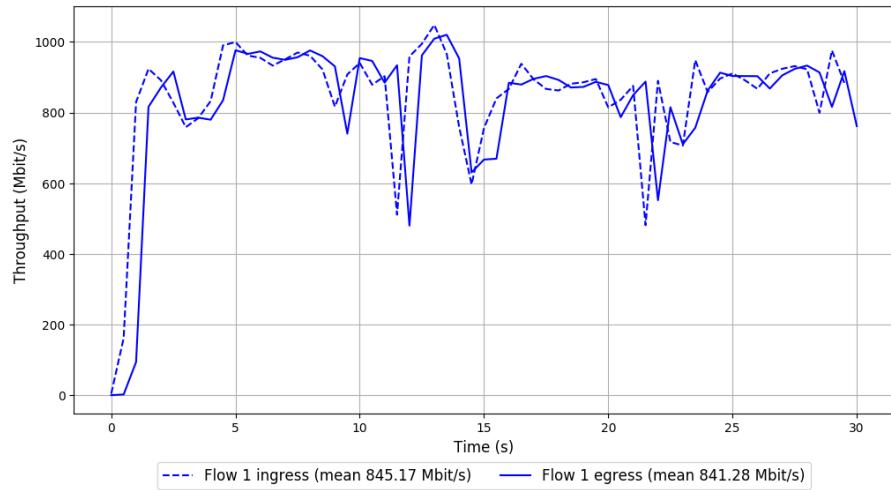


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-27 07:21:55
End at: 2019-03-27 07:22:25
Local clock offset: -0.015 ms
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 841.28 Mbit/s
95th percentile per-packet one-way delay: 114.689 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 841.28 Mbit/s
95th percentile per-packet one-way delay: 114.689 ms
Loss rate: 0.88%
```

Run 5: Report of FillP-Sheep — Data Link

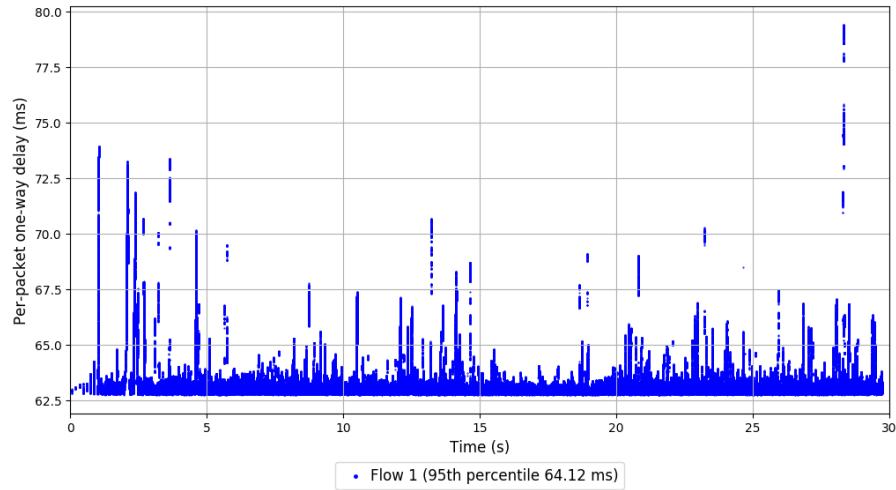
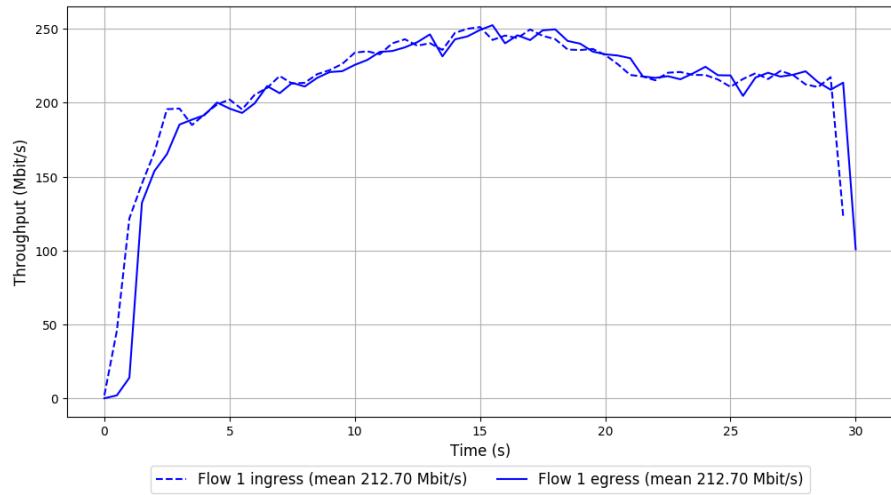


Run 1: Statistics of Indigo

```
Start at: 2019-03-27 05:31:39
End at: 2019-03-27 05:32:09
Local clock offset: -0.035 ms
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.70 Mbit/s
95th percentile per-packet one-way delay: 64.123 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 212.70 Mbit/s
95th percentile per-packet one-way delay: 64.123 ms
Loss rate: 0.43%
```

Run 1: Report of Indigo — Data Link

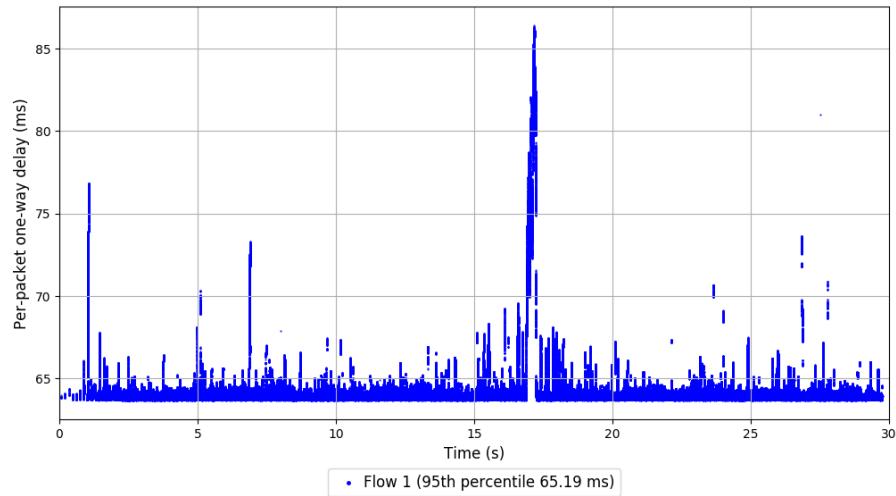
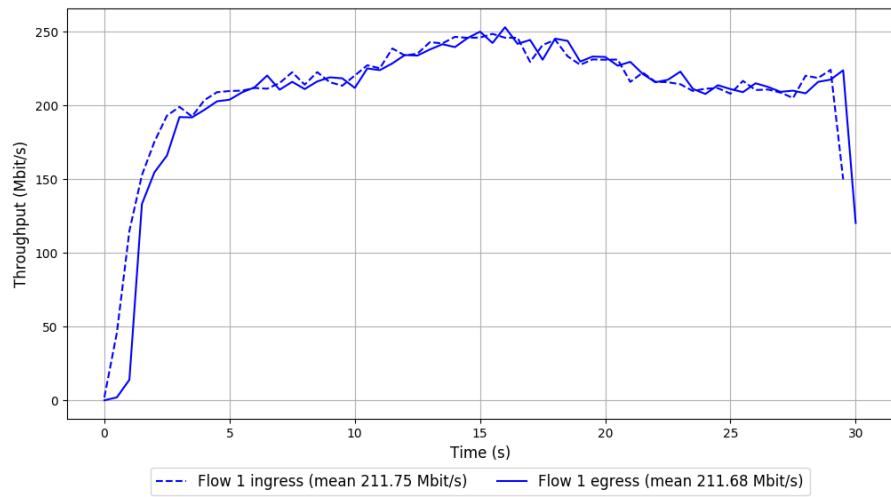


Run 2: Statistics of Indigo

```
Start at: 2019-03-27 06:02:02
End at: 2019-03-27 06:02:32
Local clock offset: -0.09 ms
Remote clock offset: -0.693 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.68 Mbit/s
95th percentile per-packet one-way delay: 65.192 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 211.68 Mbit/s
95th percentile per-packet one-way delay: 65.192 ms
Loss rate: 0.46%
```

Run 2: Report of Indigo — Data Link

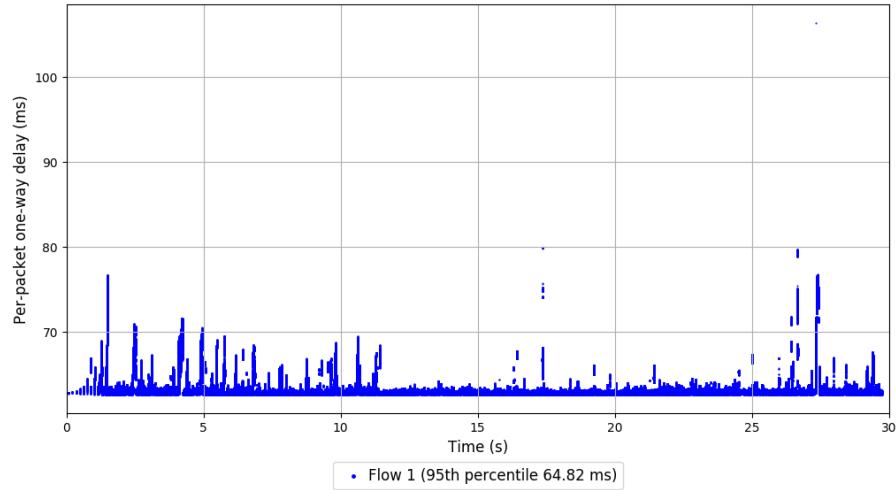
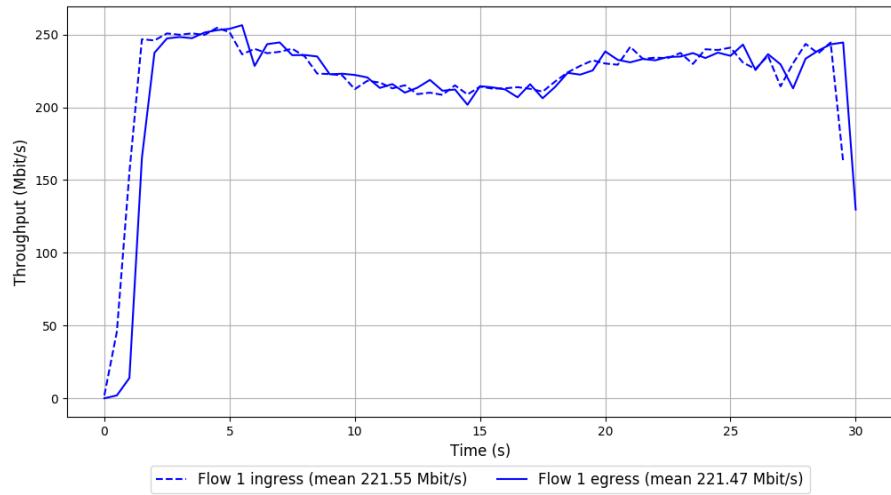


Run 3: Statistics of Indigo

```
Start at: 2019-03-27 06:32:36
End at: 2019-03-27 06:33:06
Local clock offset: -0.096 ms
Remote clock offset: 0.82 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.47 Mbit/s
95th percentile per-packet one-way delay: 64.819 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 221.47 Mbit/s
95th percentile per-packet one-way delay: 64.819 ms
Loss rate: 0.46%
```

Run 3: Report of Indigo — Data Link

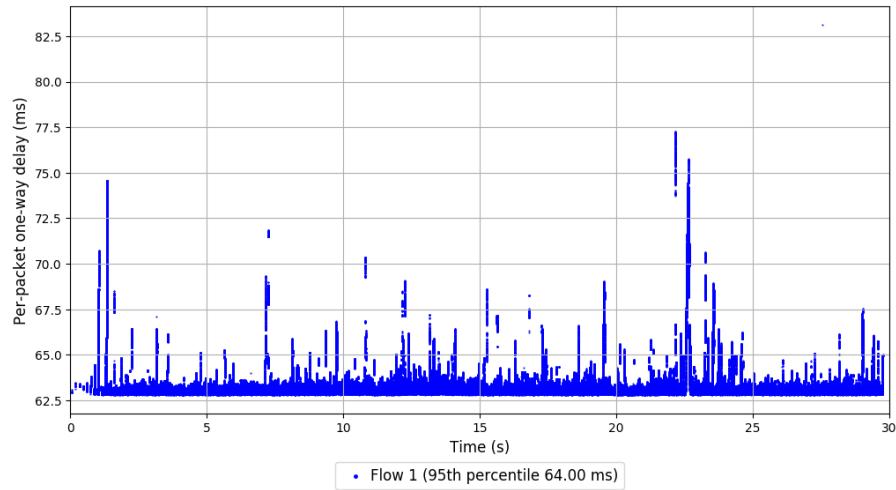
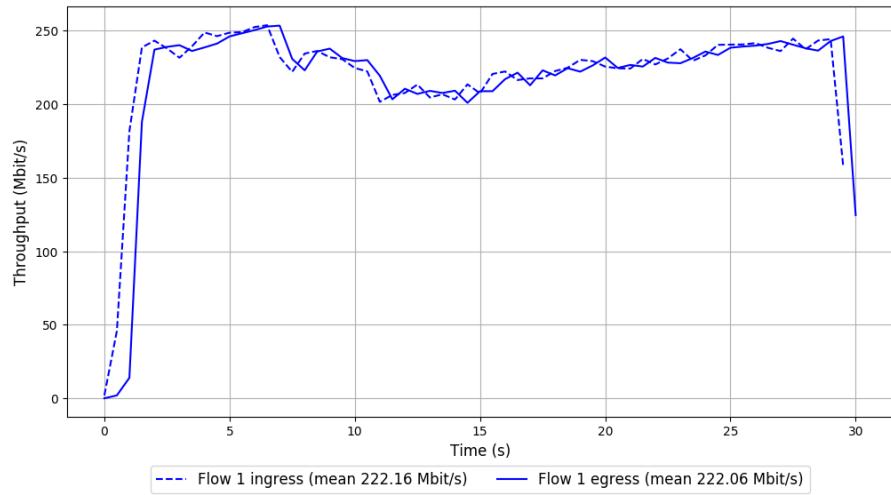


Run 4: Statistics of Indigo

```
Start at: 2019-03-27 07:02:55
End at: 2019-03-27 07:03:25
Local clock offset: 0.0 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.06 Mbit/s
95th percentile per-packet one-way delay: 64.001 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 222.06 Mbit/s
95th percentile per-packet one-way delay: 64.001 ms
Loss rate: 0.48%
```

Run 4: Report of Indigo — Data Link

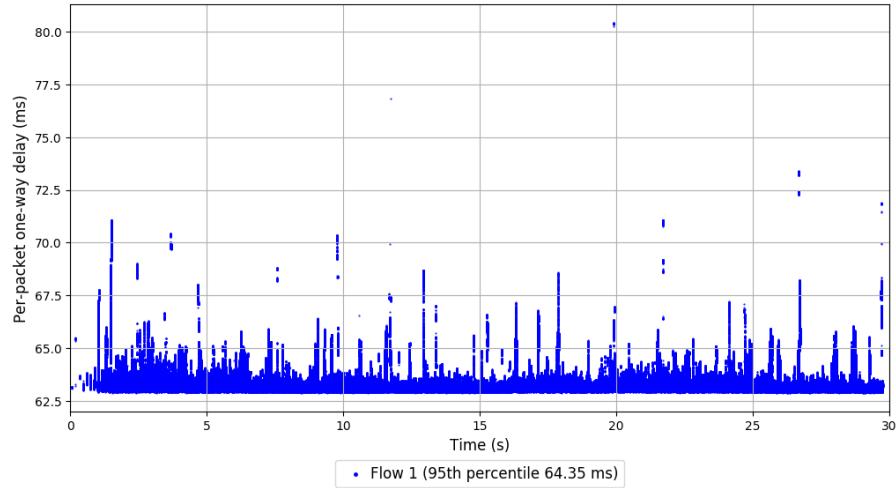
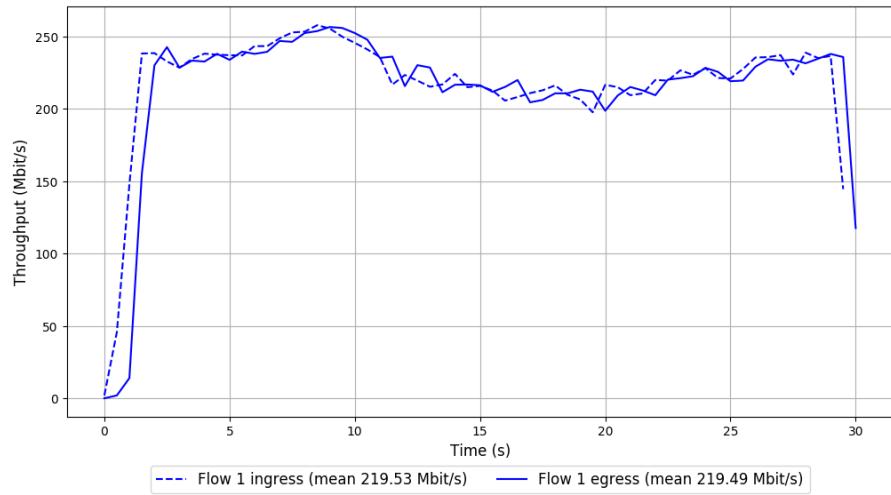


Run 5: Statistics of Indigo

```
Start at: 2019-03-27 07:33:23
End at: 2019-03-27 07:33:53
Local clock offset: -0.049 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.49 Mbit/s
95th percentile per-packet one-way delay: 64.353 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 219.49 Mbit/s
95th percentile per-packet one-way delay: 64.353 ms
Loss rate: 0.44%
```

Run 5: Report of Indigo — Data Link

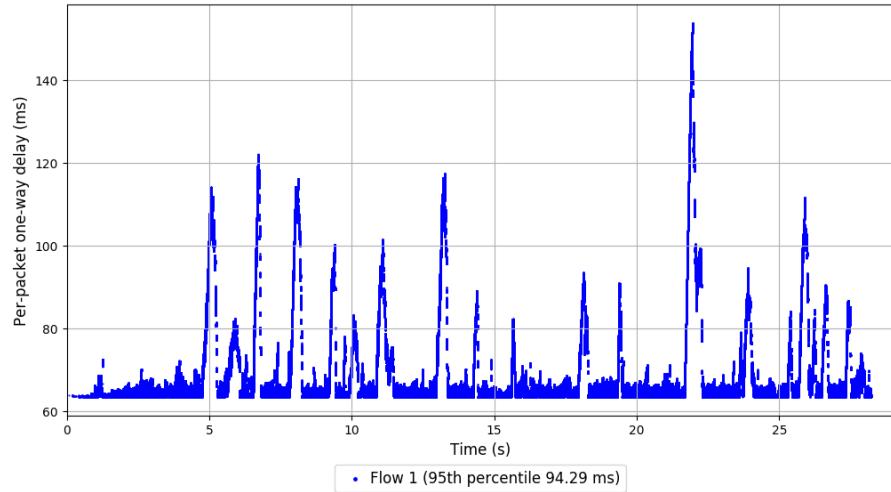
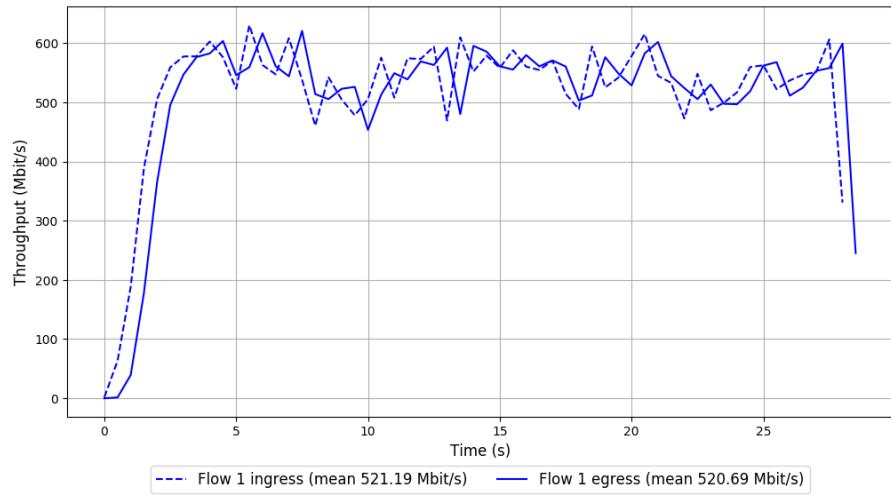


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 05:27:30
End at: 2019-03-27 05:28:00
Local clock offset: -0.075 ms
Remote clock offset: -0.599 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 520.69 Mbit/s
95th percentile per-packet one-way delay: 94.291 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 520.69 Mbit/s
95th percentile per-packet one-way delay: 94.291 ms
Loss rate: 0.54%
```

Run 1: Report of Indigo-MusesC3 — Data Link

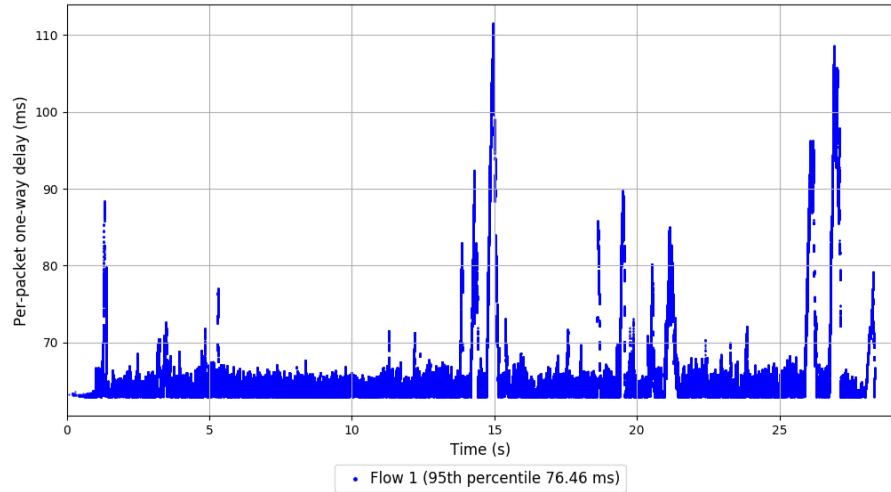
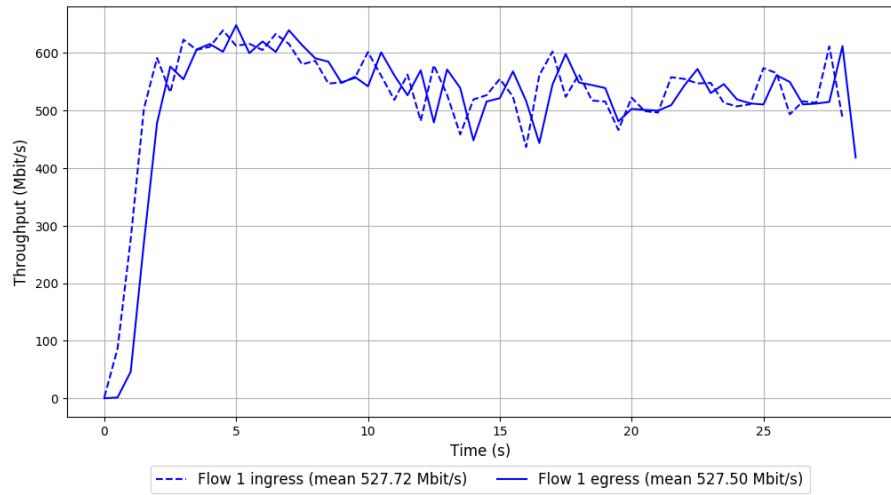


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 05:57:51
End at: 2019-03-27 05:58:21
Local clock offset: -0.081 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 527.50 Mbit/s
95th percentile per-packet one-way delay: 76.459 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 527.50 Mbit/s
95th percentile per-packet one-way delay: 76.459 ms
Loss rate: 0.49%
```

Run 2: Report of Indigo-MusesC3 — Data Link

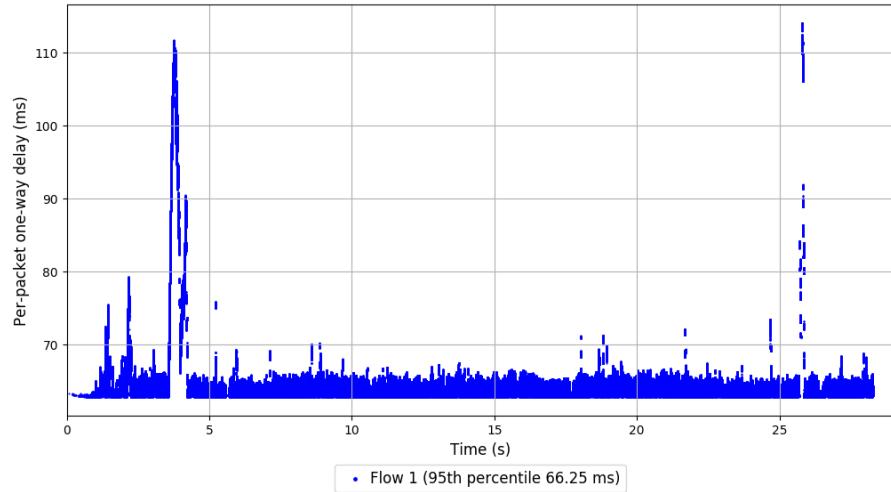
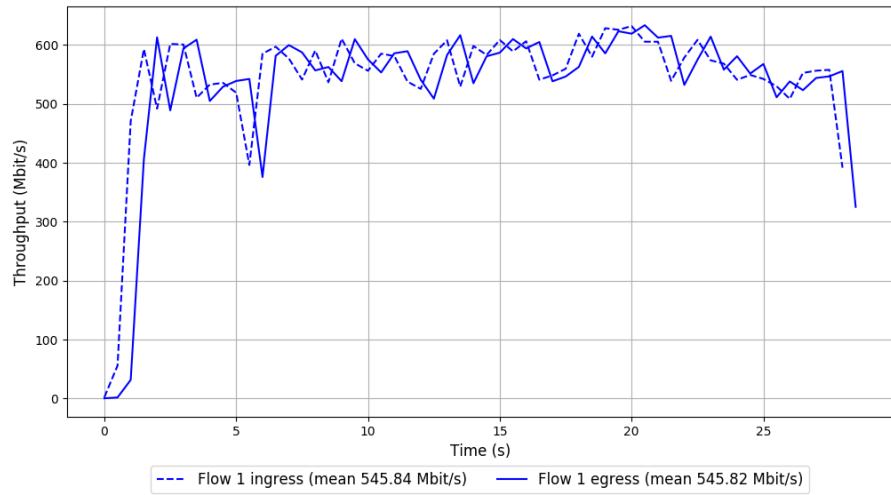


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 06:28:28
End at: 2019-03-27 06:28:58
Local clock offset: -0.118 ms
Remote clock offset: 0.32 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 545.82 Mbit/s
95th percentile per-packet one-way delay: 66.252 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 545.82 Mbit/s
95th percentile per-packet one-way delay: 66.252 ms
Loss rate: 0.46%
```

Run 3: Report of Indigo-MusesC3 — Data Link

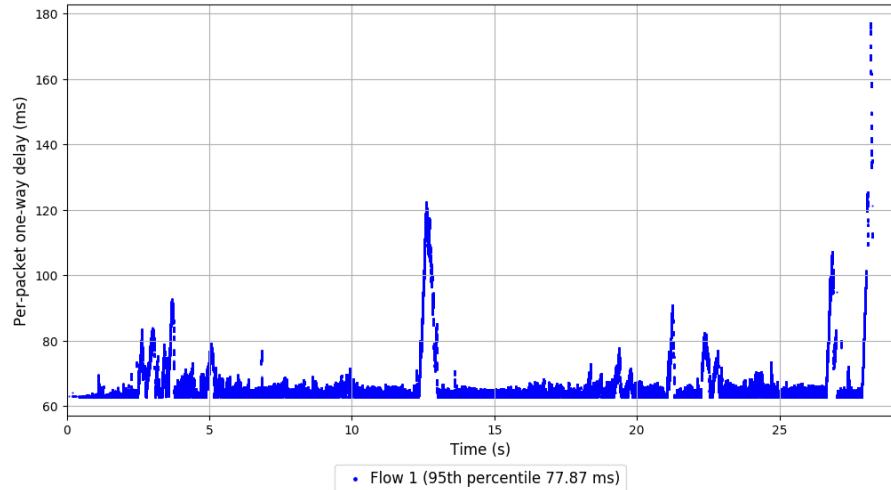
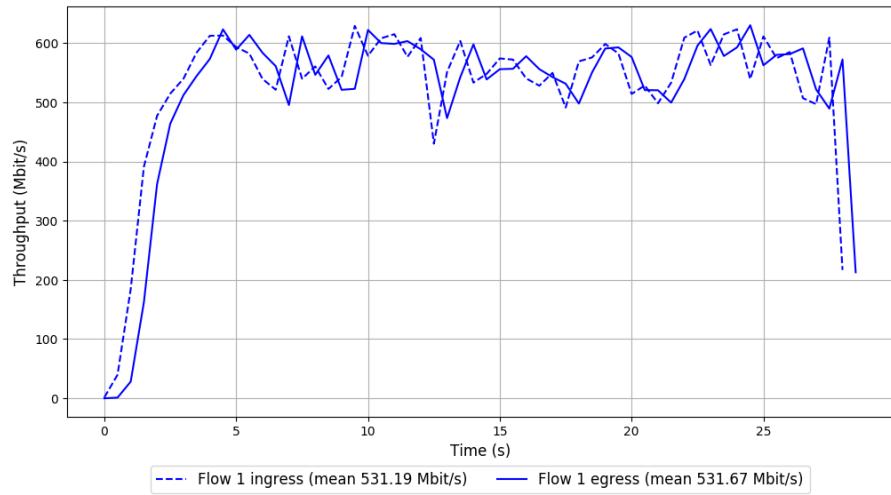


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 06:58:44
End at: 2019-03-27 06:59:14
Local clock offset: -0.017 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 531.67 Mbit/s
95th percentile per-packet one-way delay: 77.868 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 531.67 Mbit/s
95th percentile per-packet one-way delay: 77.868 ms
Loss rate: 0.36%
```

Run 4: Report of Indigo-MusesC3 — Data Link

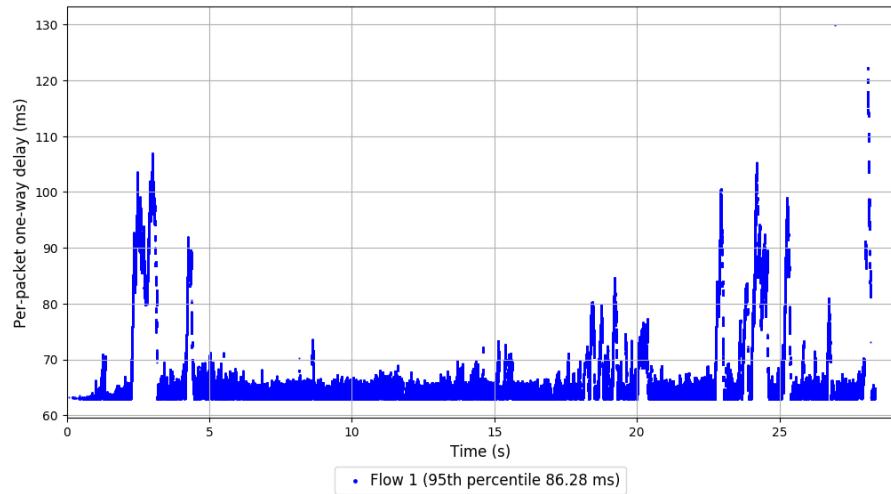
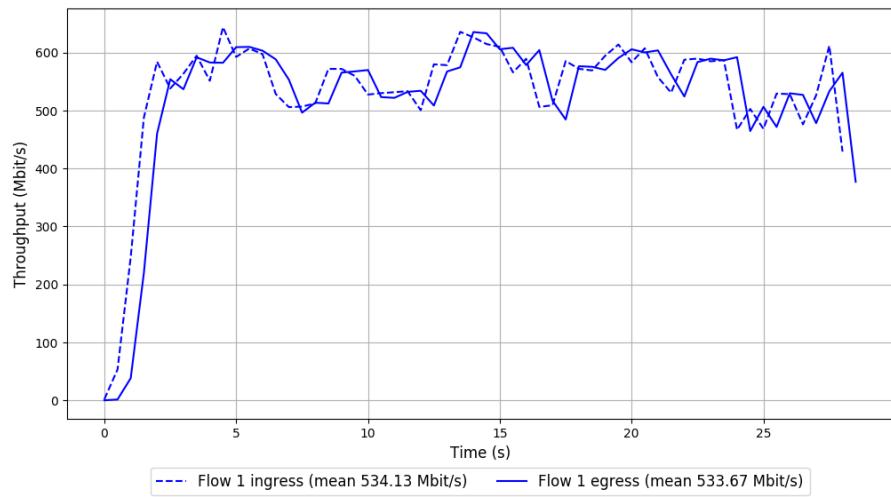


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 07:29:12
End at: 2019-03-27 07:29:42
Local clock offset: -0.051 ms
Remote clock offset: -0.215 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 533.67 Mbit/s
95th percentile per-packet one-way delay: 86.275 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 533.67 Mbit/s
95th percentile per-packet one-way delay: 86.275 ms
Loss rate: 0.53%
```

Run 5: Report of Indigo-MusesC3 — Data Link

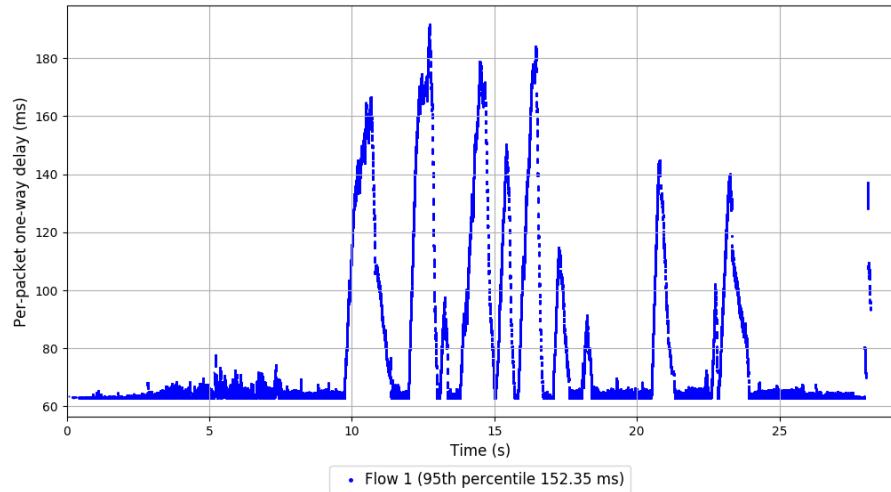
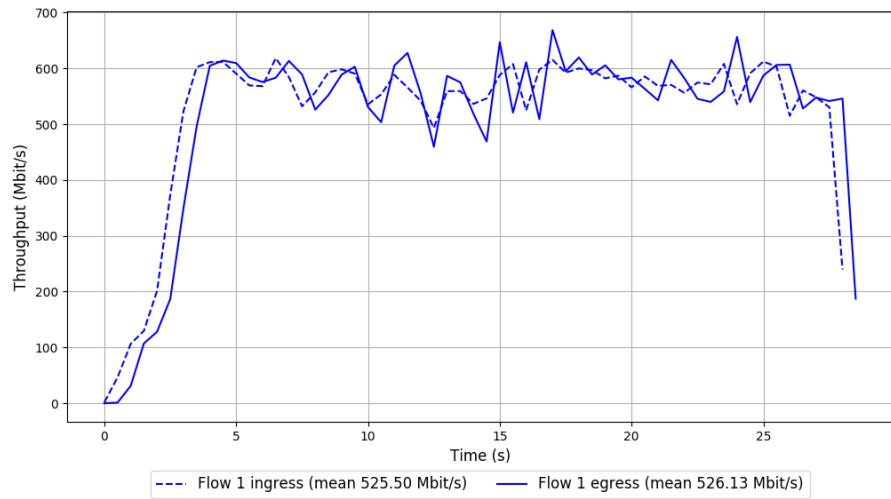


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 05:41:52
End at: 2019-03-27 05:42:22
Local clock offset: -0.095 ms
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2019-03-27 08:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 526.13 Mbit/s
95th percentile per-packet one-way delay: 152.355 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 526.13 Mbit/s
95th percentile per-packet one-way delay: 152.355 ms
Loss rate: 0.41%
```

Run 1: Report of Indigo-MusesC5 — Data Link

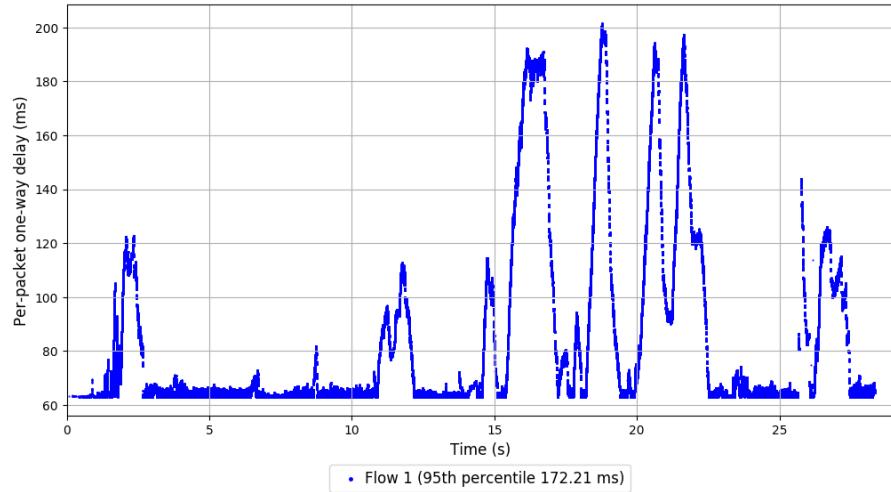
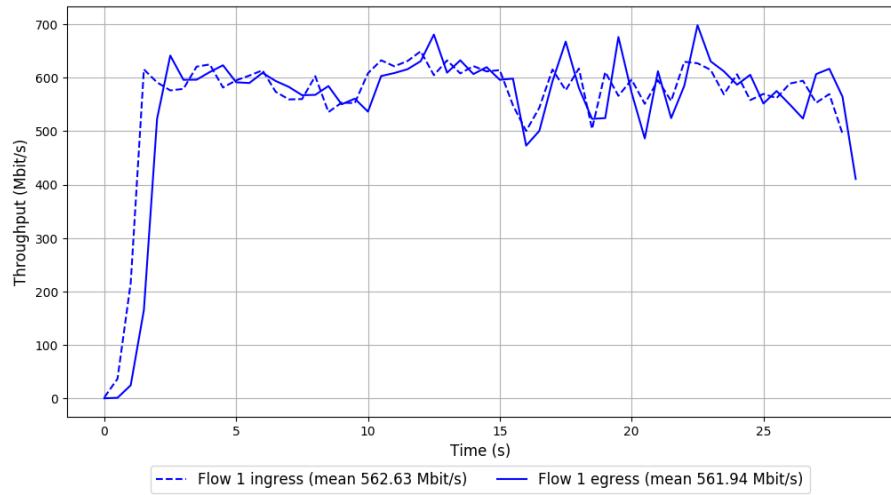


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 06:12:27
End at: 2019-03-27 06:12:57
Local clock offset: -0.073 ms
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2019-03-27 08:55:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 561.94 Mbit/s
95th percentile per-packet one-way delay: 172.212 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 561.94 Mbit/s
95th percentile per-packet one-way delay: 172.212 ms
Loss rate: 0.57%
```

Run 2: Report of Indigo-MusesC5 — Data Link

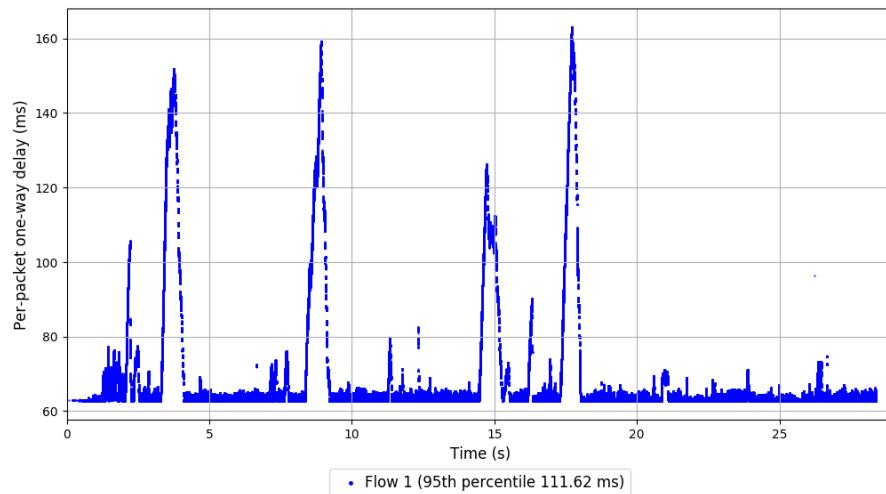
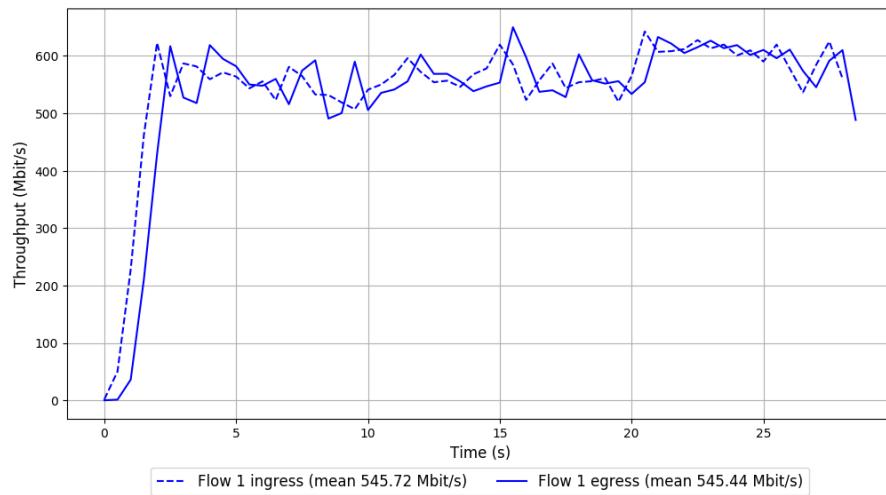


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 06:42:54
End at: 2019-03-27 06:43:24
Local clock offset: -0.104 ms
Remote clock offset: 0.212 ms

# Below is generated by plot.py at 2019-03-27 08:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 545.44 Mbit/s
95th percentile per-packet one-way delay: 111.618 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 545.44 Mbit/s
95th percentile per-packet one-way delay: 111.618 ms
Loss rate: 0.50%
```

Run 3: Report of Indigo-MusesC5 — Data Link

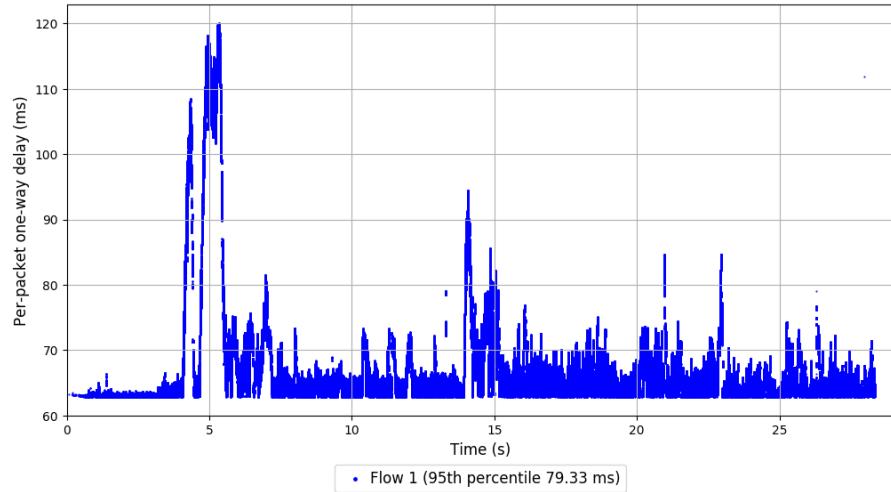
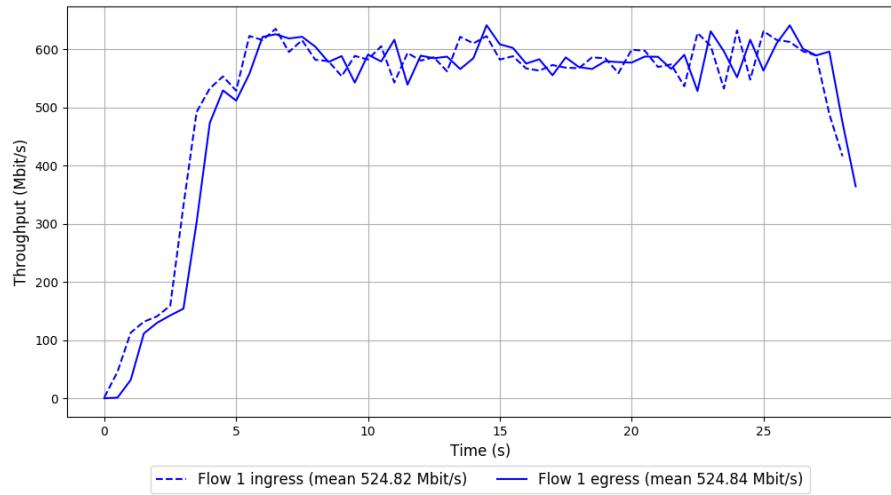


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 07:13:20
End at: 2019-03-27 07:13:50
Local clock offset: -0.03 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-03-27 08:59:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 524.84 Mbit/s
95th percentile per-packet one-way delay: 79.325 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 524.84 Mbit/s
95th percentile per-packet one-way delay: 79.325 ms
Loss rate: 0.46%
```

Run 4: Report of Indigo-MusesC5 — Data Link

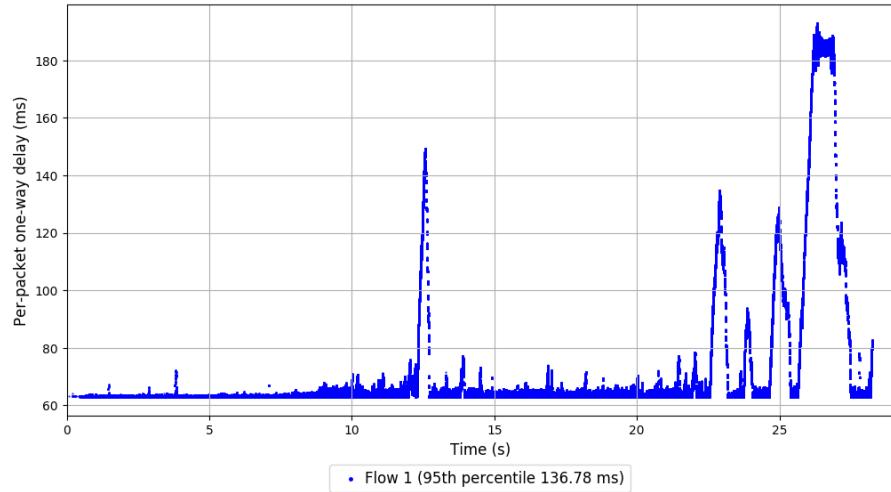
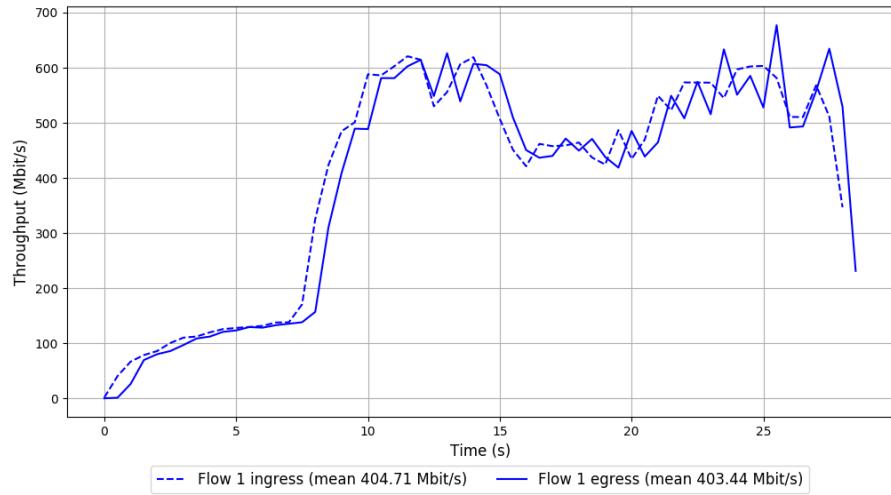


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 07:43:43
End at: 2019-03-27 07:44:13
Local clock offset: -0.049 ms
Remote clock offset: -0.288 ms

# Below is generated by plot.py at 2019-03-27 08:59:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 403.44 Mbit/s
95th percentile per-packet one-way delay: 136.778 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 403.44 Mbit/s
95th percentile per-packet one-way delay: 136.778 ms
Loss rate: 0.76%
```

Run 5: Report of Indigo-MusesC5 — Data Link

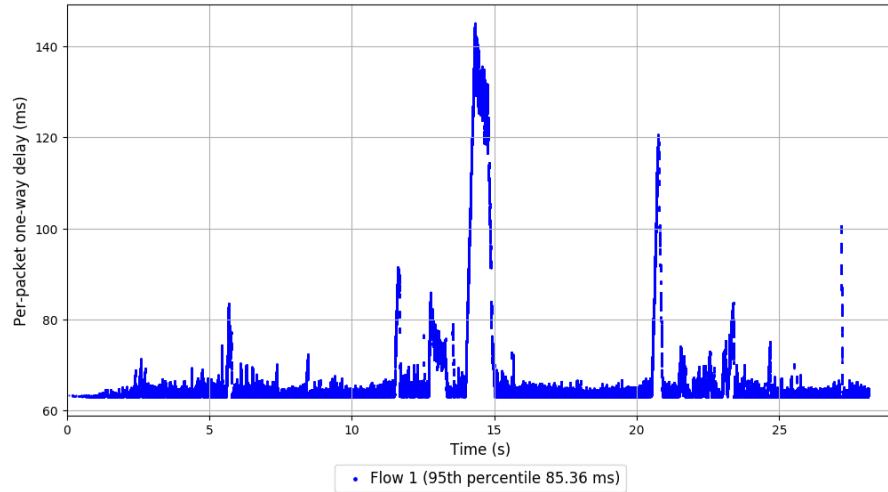
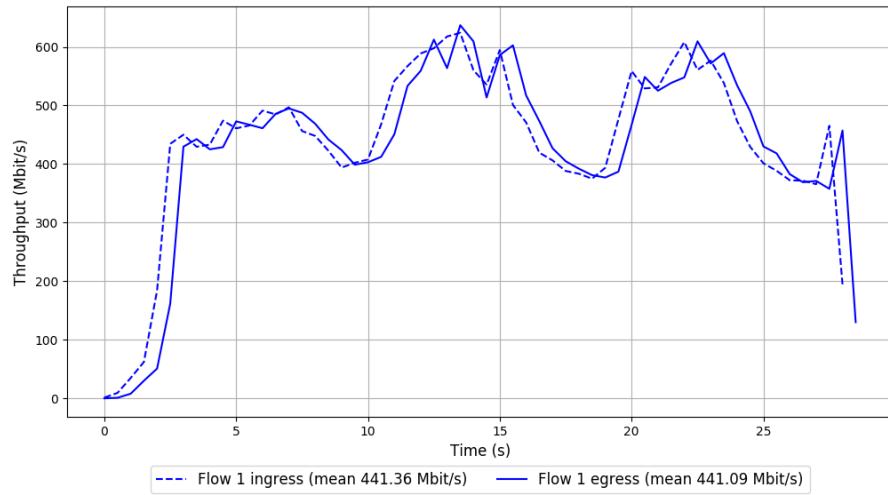


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 05:30:10
End at: 2019-03-27 05:30:40
Local clock offset: -0.085 ms
Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2019-03-27 08:59:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 441.09 Mbit/s
95th percentile per-packet one-way delay: 85.361 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 441.09 Mbit/s
95th percentile per-packet one-way delay: 85.361 ms
Loss rate: 0.51%
```

Run 1: Report of Indigo-MusesD — Data Link

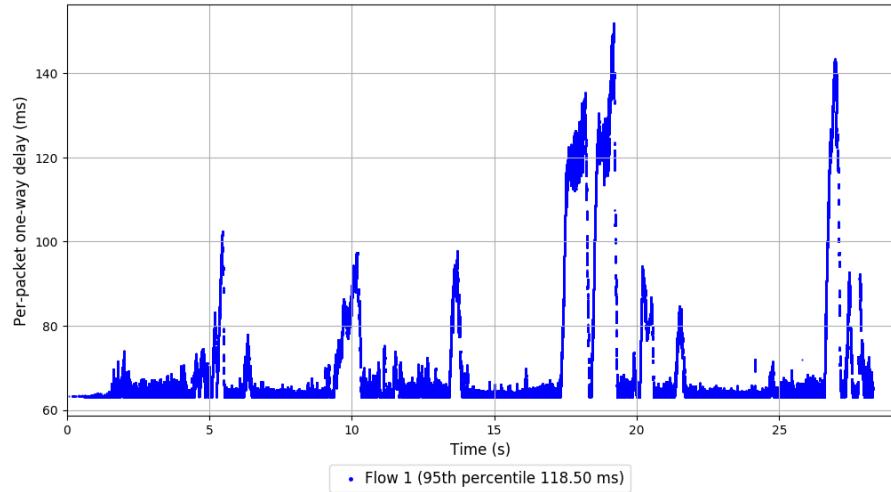
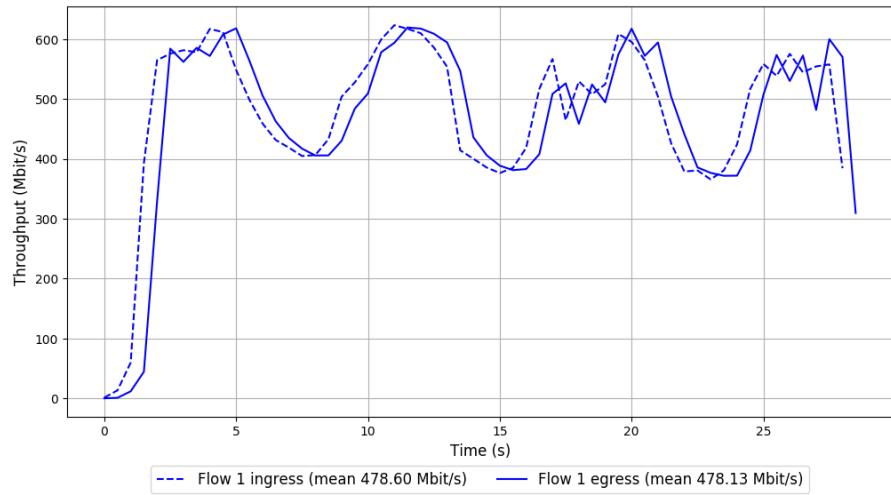


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 06:00:32
End at: 2019-03-27 06:01:02
Local clock offset: -0.115 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-03-27 08:59:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 478.13 Mbit/s
95th percentile per-packet one-way delay: 118.495 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 478.13 Mbit/s
95th percentile per-packet one-way delay: 118.495 ms
Loss rate: 0.55%
```

Run 2: Report of Indigo-MusesD — Data Link

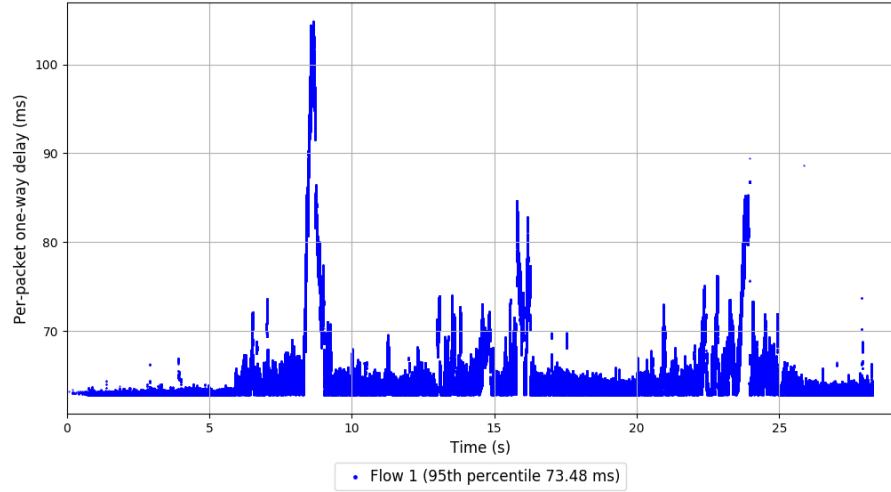
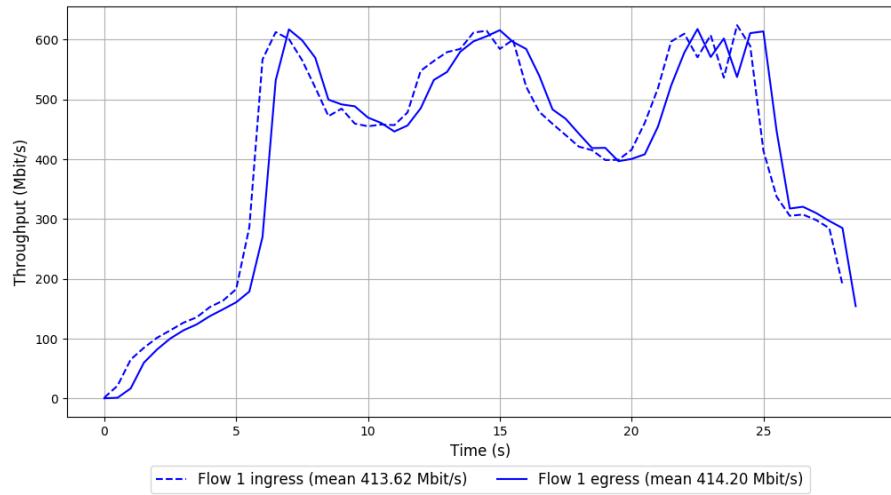


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 06:31:09
End at: 2019-03-27 06:31:39
Local clock offset: -0.103 ms
Remote clock offset: 0.218 ms

# Below is generated by plot.py at 2019-03-27 08:59:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 414.20 Mbit/s
95th percentile per-packet one-way delay: 73.485 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 414.20 Mbit/s
95th percentile per-packet one-way delay: 73.485 ms
Loss rate: 0.30%
```

Run 3: Report of Indigo-MusesD — Data Link

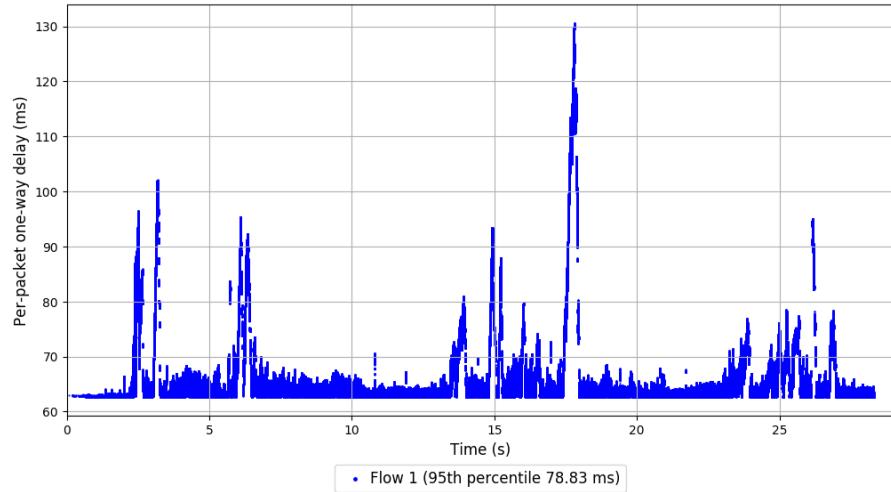
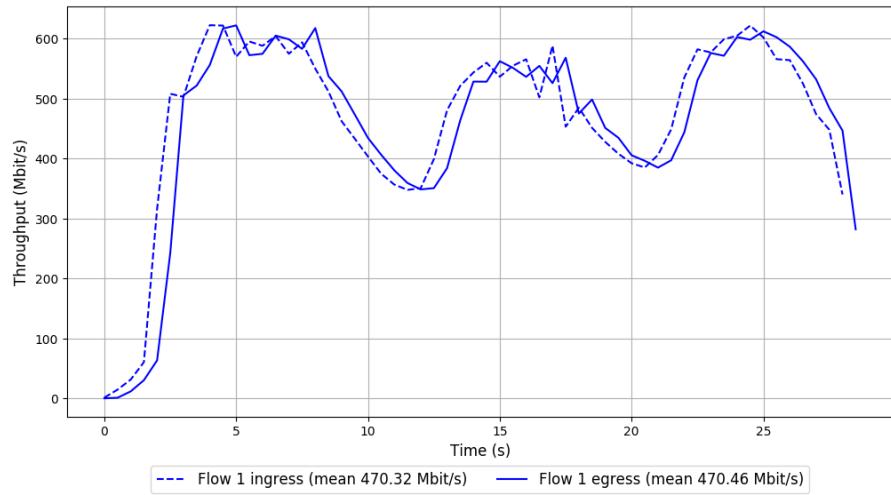


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 07:01:25
End at: 2019-03-27 07:01:55
Local clock offset: -0.045 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-03-27 09:00:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 470.46 Mbit/s
95th percentile per-packet one-way delay: 78.834 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 470.46 Mbit/s
95th percentile per-packet one-way delay: 78.834 ms
Loss rate: 0.42%
```

Run 4: Report of Indigo-MusesD — Data Link

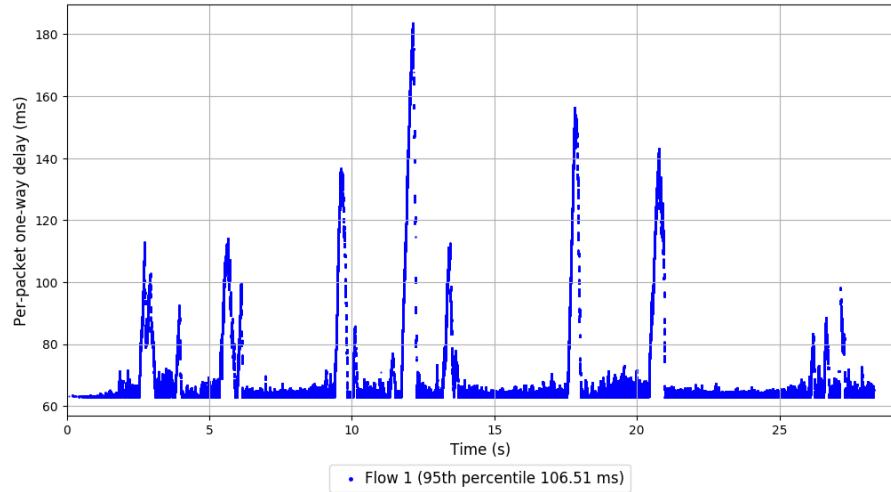
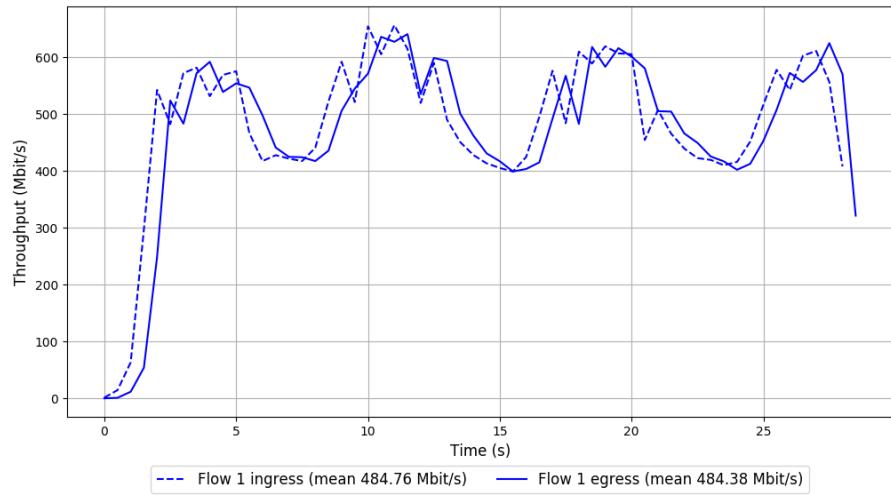


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 07:31:52
End at: 2019-03-27 07:32:22
Local clock offset: -0.071 ms
Remote clock offset: -0.267 ms

# Below is generated by plot.py at 2019-03-27 09:04:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 484.38 Mbit/s
95th percentile per-packet one-way delay: 106.512 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 484.38 Mbit/s
95th percentile per-packet one-way delay: 106.512 ms
Loss rate: 0.51%
```

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

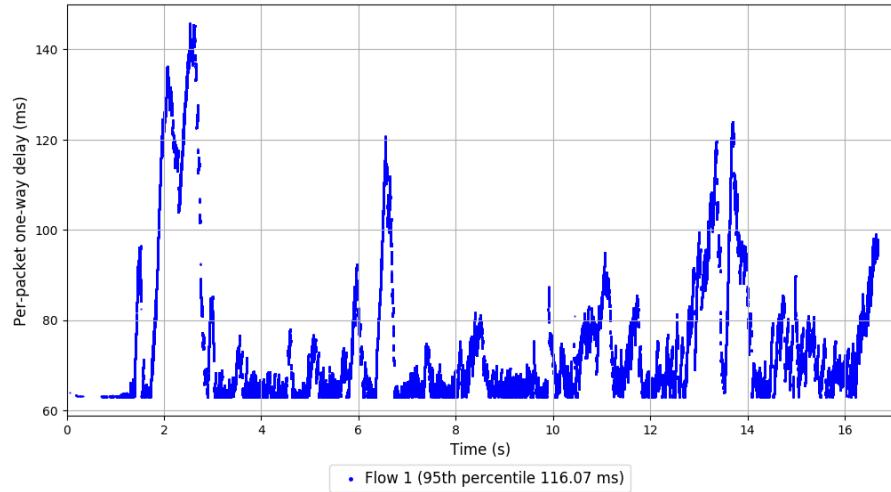
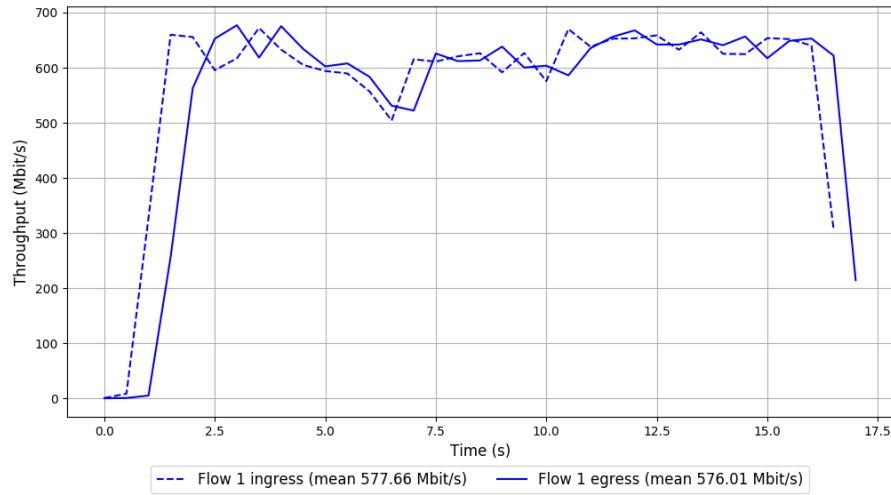
Start at: 2019-03-27 05:23:09

End at: 2019-03-27 05:23:39

Local clock offset: -0.029 ms

Remote clock offset: -0.341 ms

Run 1: Report of Indigo-MusesT — Data Link

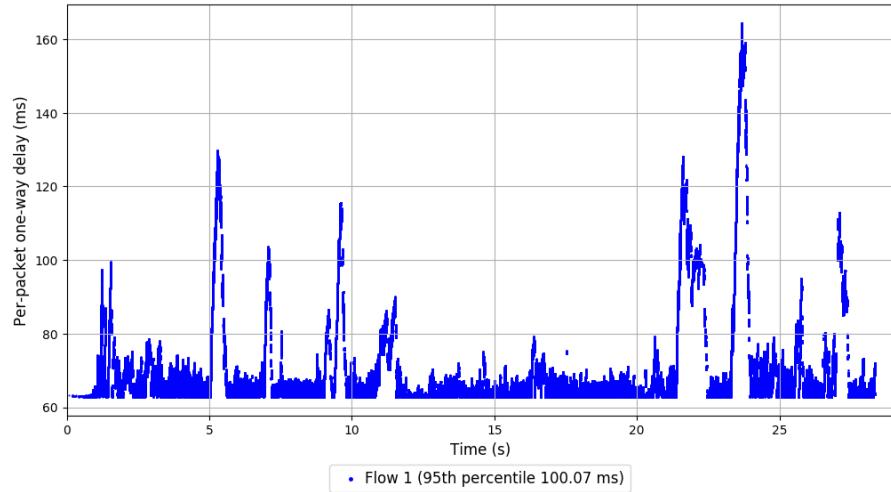
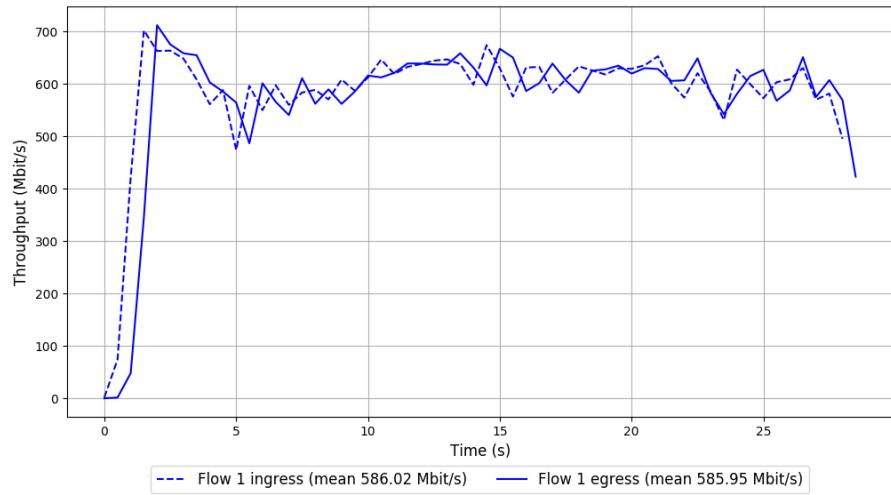


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 05:53:20
End at: 2019-03-27 05:53:50
Local clock offset: -0.1 ms
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2019-03-27 09:07:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 585.95 Mbit/s
95th percentile per-packet one-way delay: 100.068 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 585.95 Mbit/s
95th percentile per-packet one-way delay: 100.068 ms
Loss rate: 0.46%
```

Run 2: Report of Indigo-MusesT — Data Link

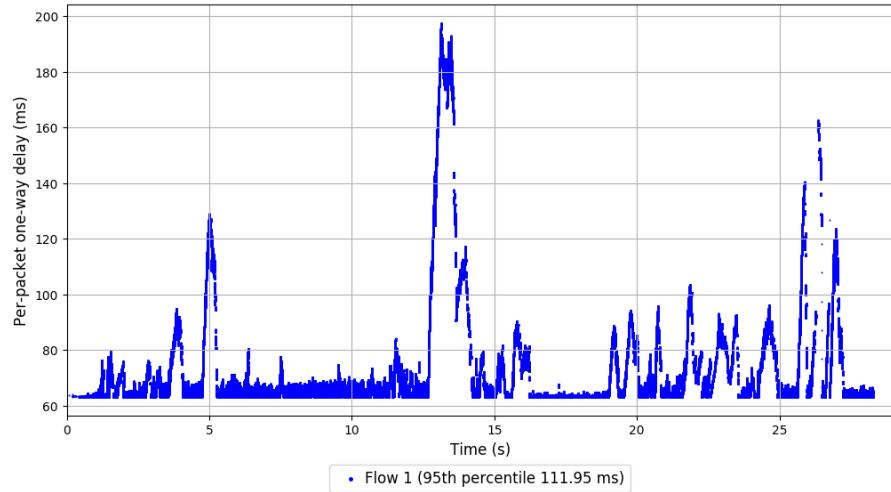
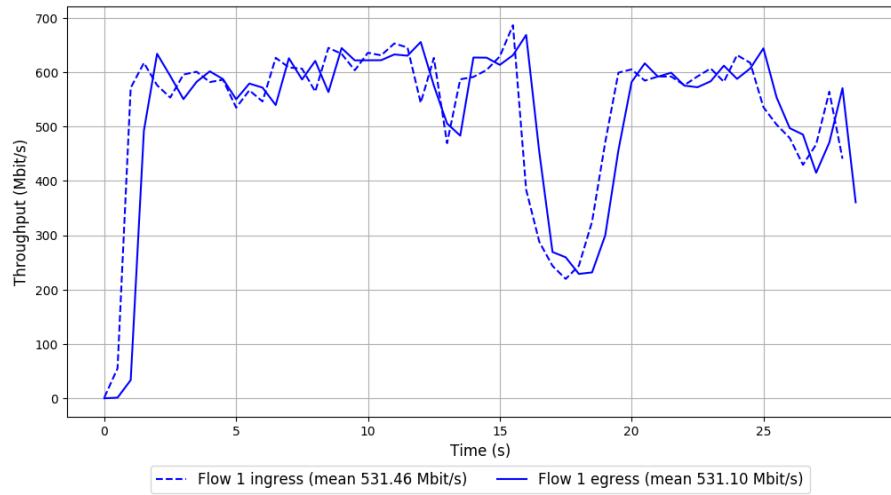


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 06:23:59
End at: 2019-03-27 06:24:29
Local clock offset: -0.092 ms
Remote clock offset: 0.197 ms

# Below is generated by plot.py at 2019-03-27 09:07:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 531.10 Mbit/s
95th percentile per-packet one-way delay: 111.946 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 531.10 Mbit/s
95th percentile per-packet one-way delay: 111.946 ms
Loss rate: 0.52%
```

Run 3: Report of Indigo-MusesT — Data Link

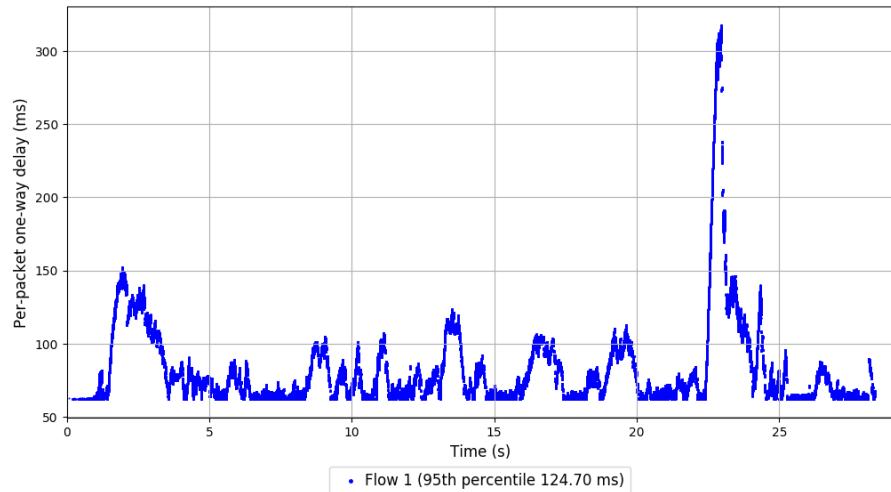
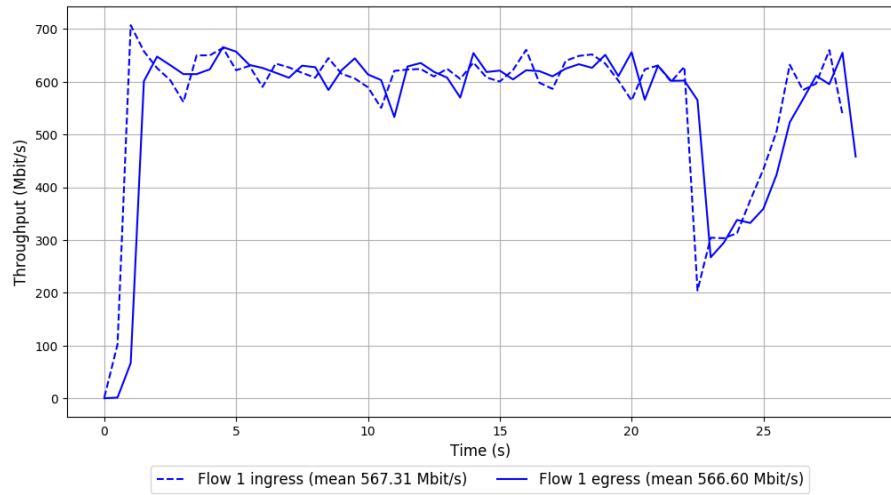


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 06:54:10
End at: 2019-03-27 06:54:40
Local clock offset: -0.015 ms
Remote clock offset: 0.689 ms

# Below is generated by plot.py at 2019-03-27 09:08:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 566.60 Mbit/s
95th percentile per-packet one-way delay: 124.698 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 566.60 Mbit/s
95th percentile per-packet one-way delay: 124.698 ms
Loss rate: 0.57%
```

Run 4: Report of Indigo-MusesT — Data Link

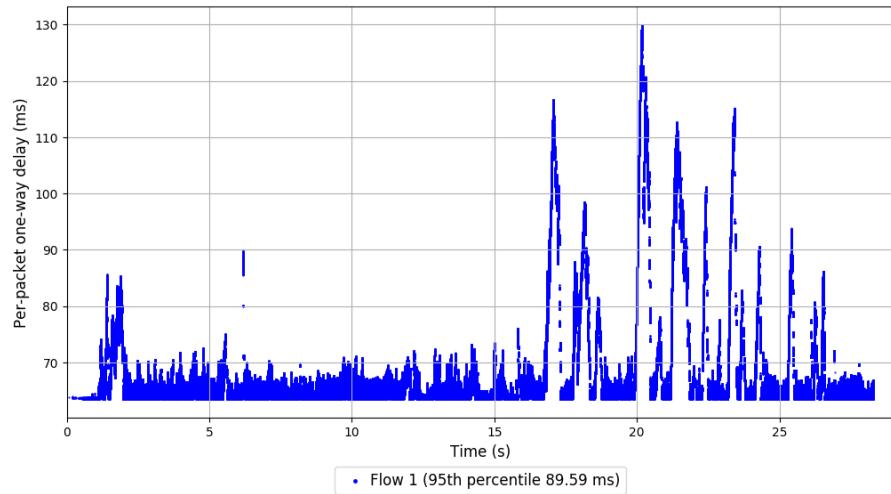
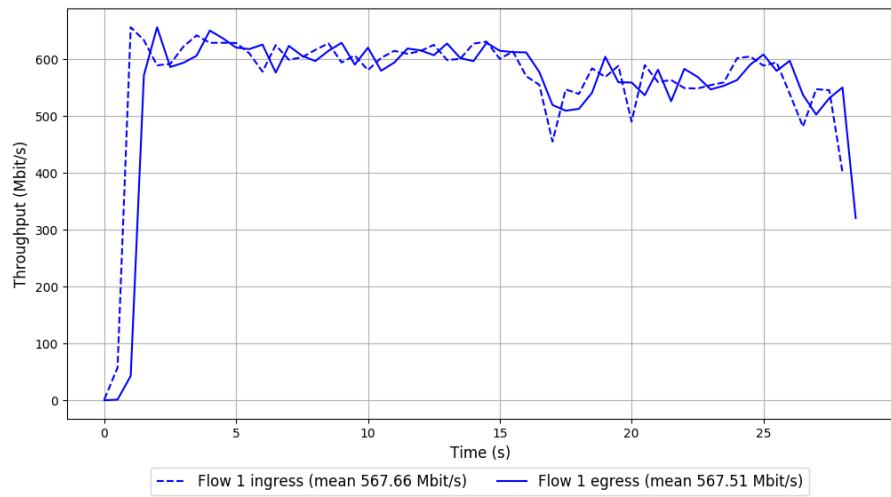


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 07:24:45
End at: 2019-03-27 07:25:15
Local clock offset: -0.037 ms
Remote clock offset: -0.648 ms

# Below is generated by plot.py at 2019-03-27 09:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.51 Mbit/s
95th percentile per-packet one-way delay: 89.586 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 567.51 Mbit/s
95th percentile per-packet one-way delay: 89.586 ms
Loss rate: 0.46%
```

Run 5: Report of Indigo-MusesT — Data Link

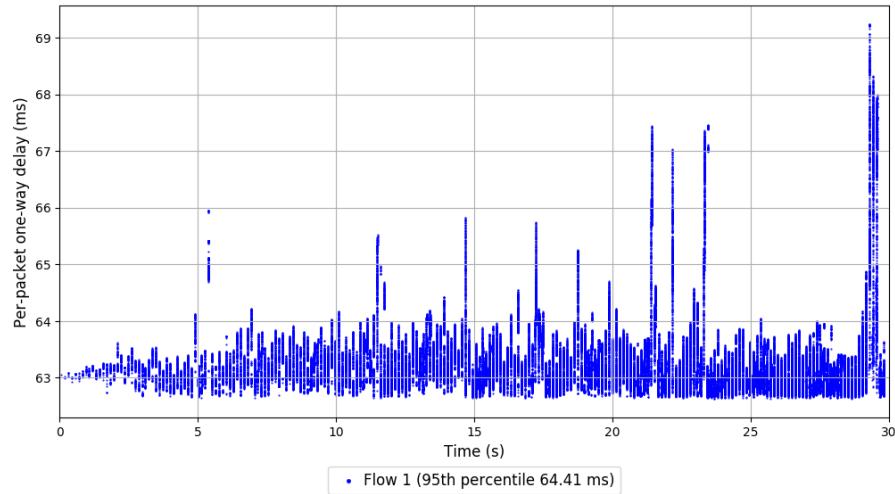
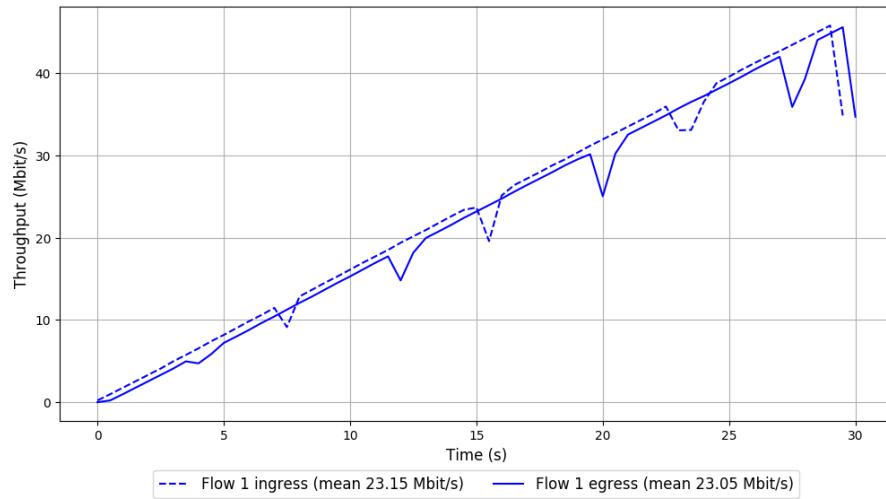


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-03-27 05:33:07
End at: 2019-03-27 05:33:37
Local clock offset: -0.072 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-03-27 09:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.05 Mbit/s
95th percentile per-packet one-way delay: 64.408 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 23.05 Mbit/s
95th percentile per-packet one-way delay: 64.408 ms
Loss rate: 0.84%
```

Run 1: Report of LEDBAT — Data Link

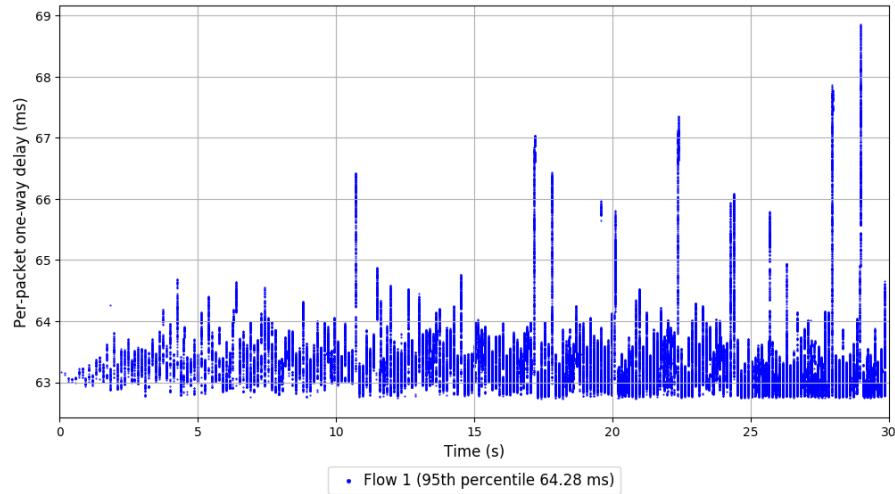
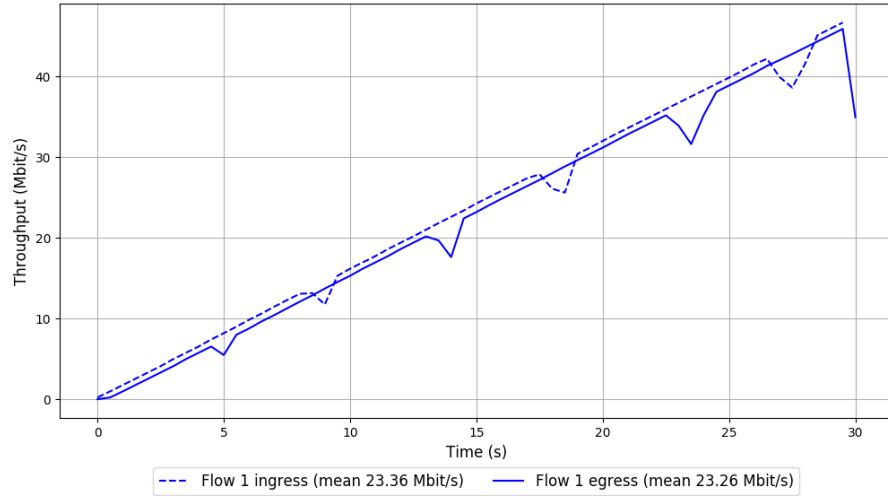


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-27 06:03:30
End at: 2019-03-27 06:04:00
Local clock offset: -0.128 ms
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2019-03-27 09:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.26 Mbit/s
95th percentile per-packet one-way delay: 64.283 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 23.26 Mbit/s
95th percentile per-packet one-way delay: 64.283 ms
Loss rate: 0.84%
```

Run 2: Report of LEDBAT — Data Link

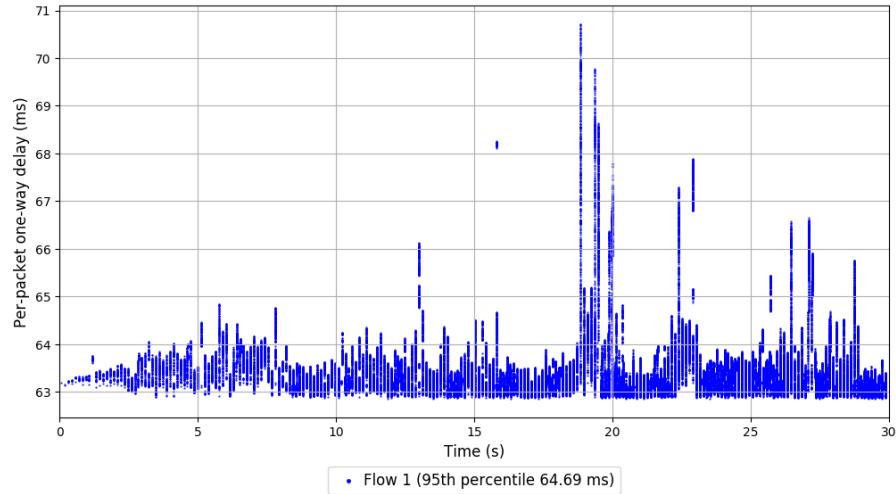
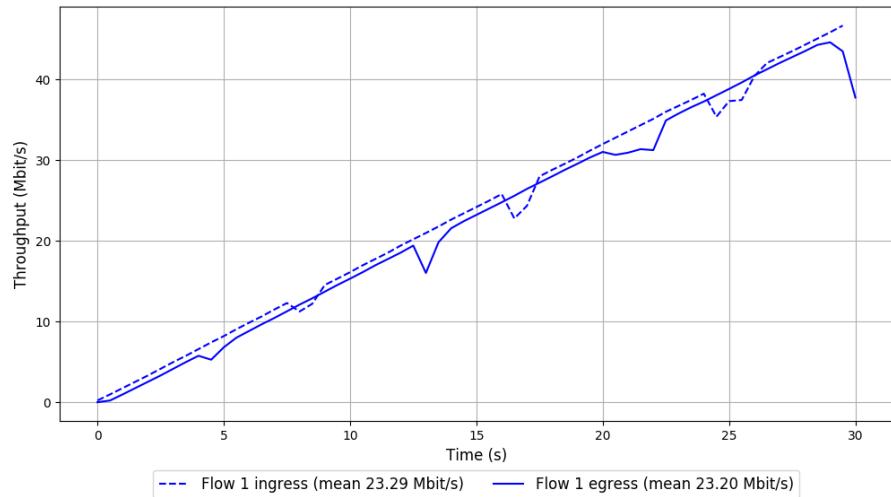


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-27 06:34:05
End at: 2019-03-27 06:34:35
Local clock offset: -0.103 ms
Remote clock offset: 0.169 ms

# Below is generated by plot.py at 2019-03-27 09:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 64.691 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 64.691 ms
Loss rate: 0.84%
```

Run 3: Report of LEDBAT — Data Link

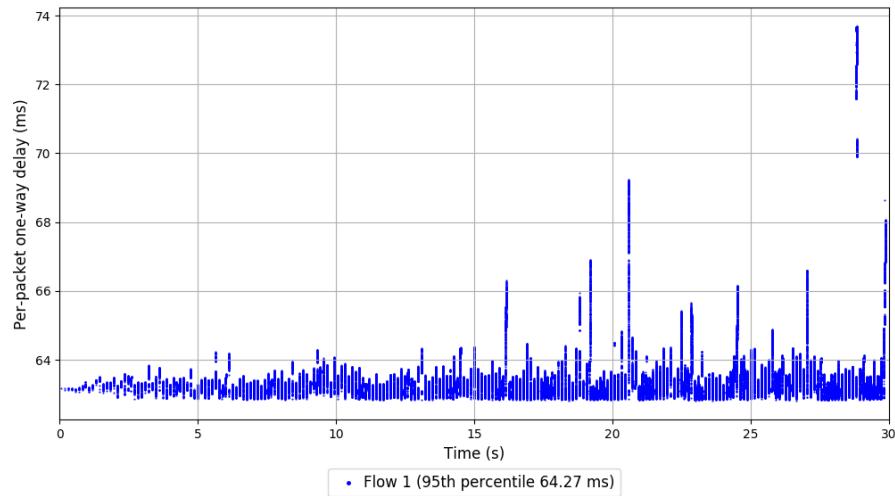
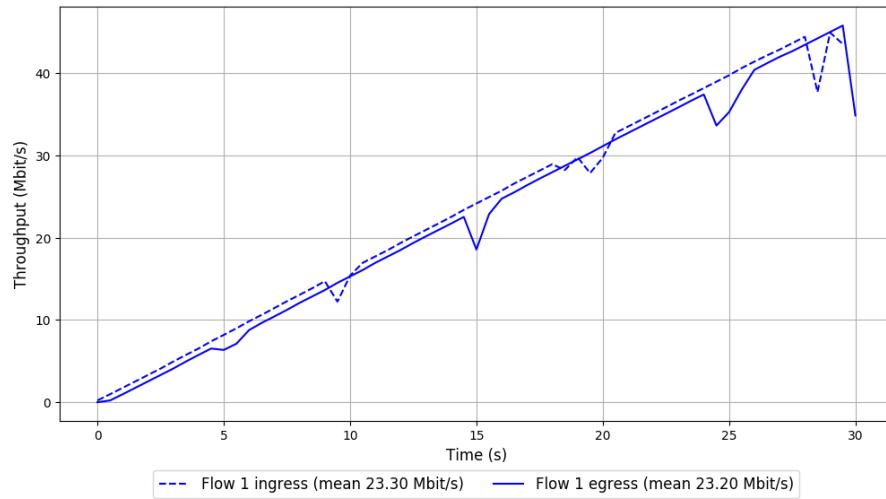


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-27 07:04:24
End at: 2019-03-27 07:04:54
Local clock offset: -0.026 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-03-27 09:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 64.273 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 64.273 ms
Loss rate: 0.84%
```

Run 4: Report of LEDBAT — Data Link

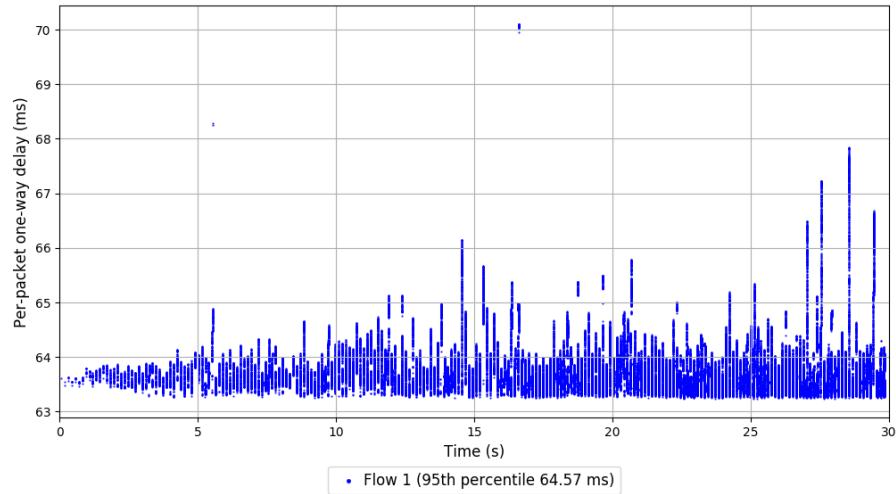
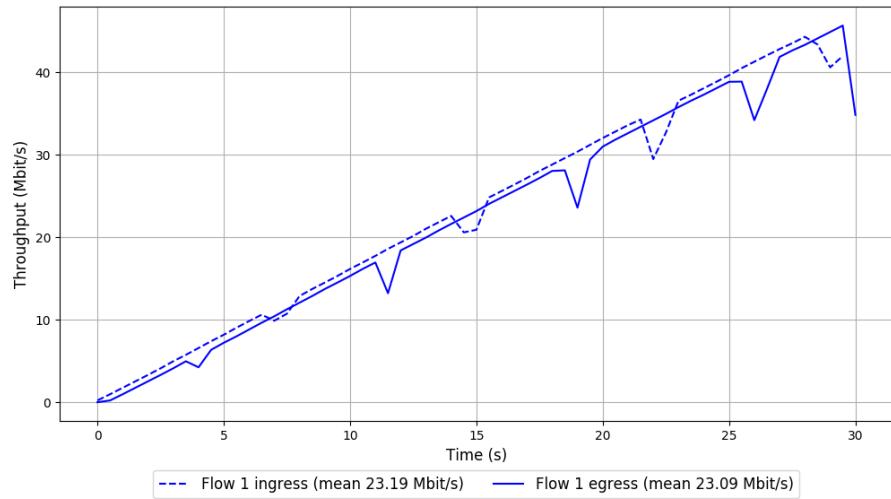


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-27 07:34:51
End at: 2019-03-27 07:35:21
Local clock offset: -0.04 ms
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2019-03-27 09:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.09 Mbit/s
95th percentile per-packet one-way delay: 64.568 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 23.09 Mbit/s
95th percentile per-packet one-way delay: 64.568 ms
Loss rate: 0.84%
```

Run 5: Report of LEDBAT — Data Link

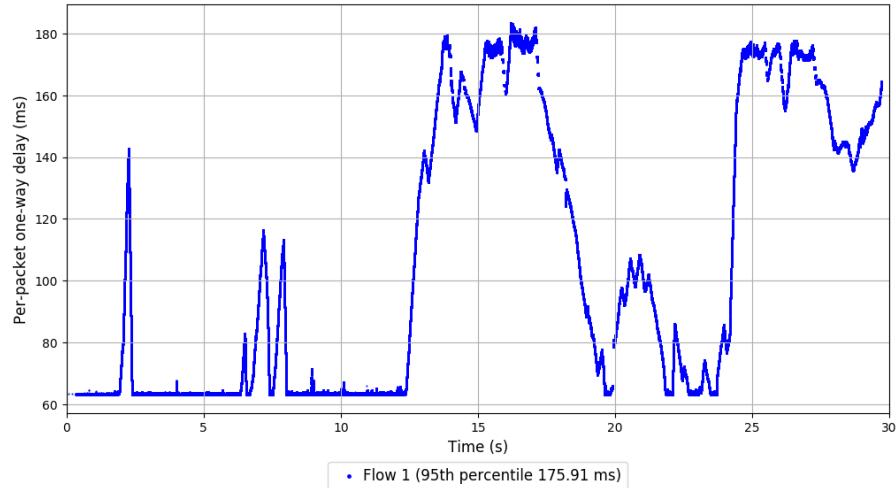
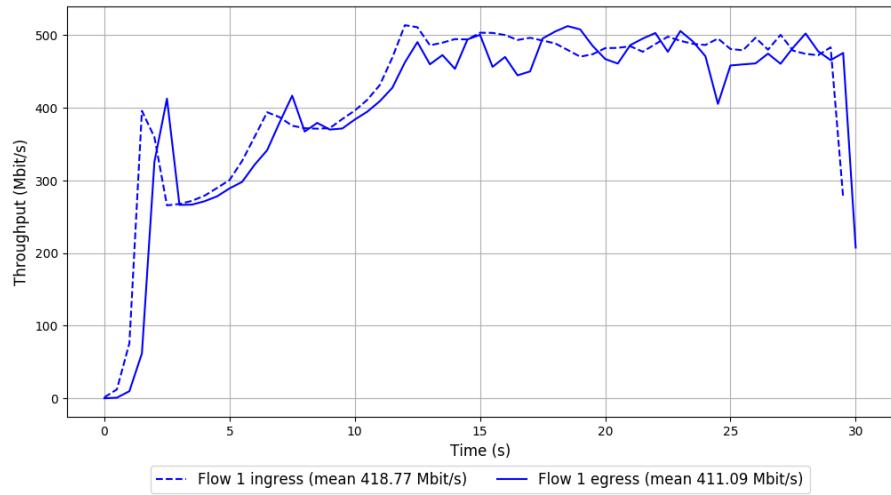


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-03-27 05:18:43
End at: 2019-03-27 05:19:14
Local clock offset: -0.067 ms
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2019-03-27 09:16:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 411.09 Mbit/s
95th percentile per-packet one-way delay: 175.908 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 411.09 Mbit/s
95th percentile per-packet one-way delay: 175.908 ms
Loss rate: 2.26%
```

Run 1: Report of PCC-Allegro — Data Link

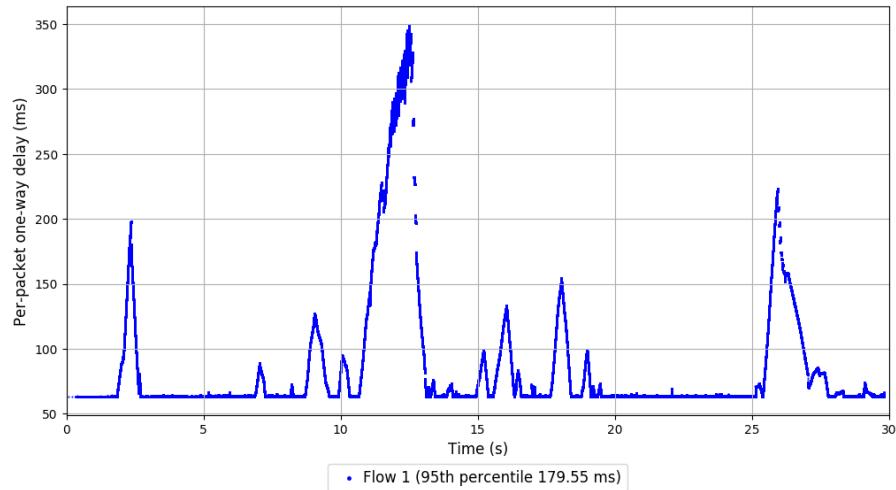
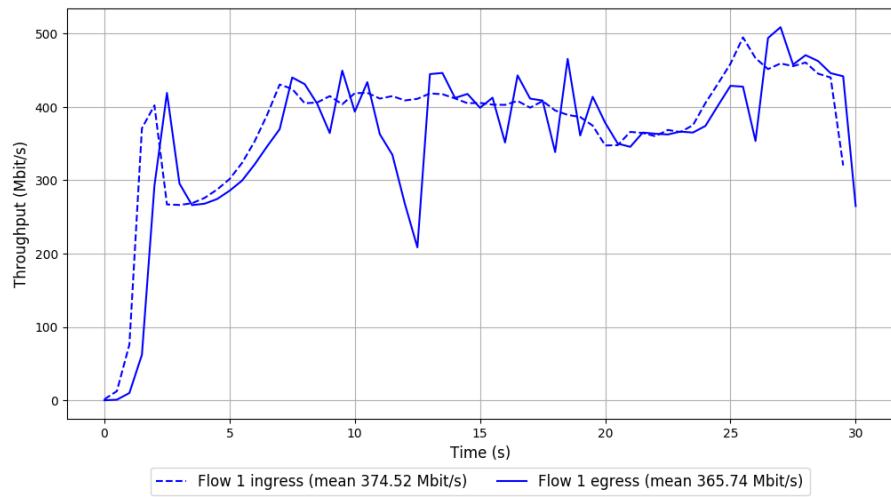


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-27 05:48:56
End at: 2019-03-27 05:49:26
Local clock offset: -0.109 ms
Remote clock offset: -0.433 ms

# Below is generated by plot.py at 2019-03-27 09:16:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 365.74 Mbit/s
95th percentile per-packet one-way delay: 179.549 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 365.74 Mbit/s
95th percentile per-packet one-way delay: 179.549 ms
Loss rate: 2.76%
```

Run 2: Report of PCC-Allegro — Data Link

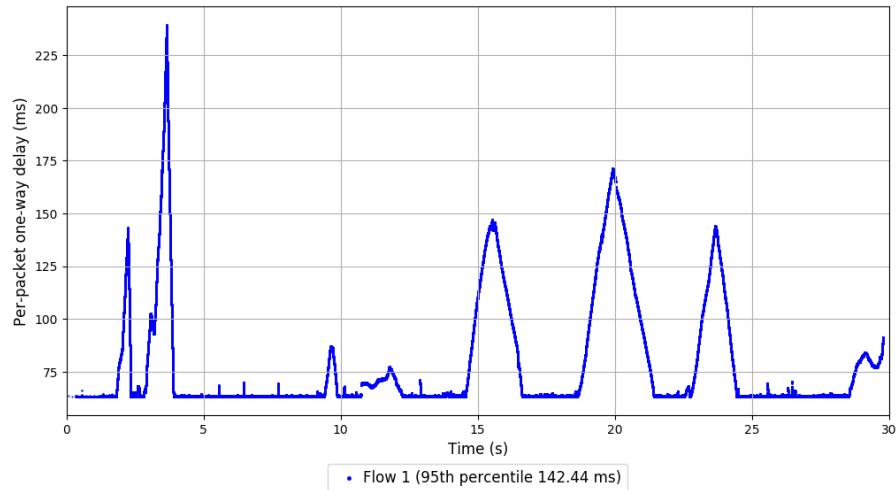
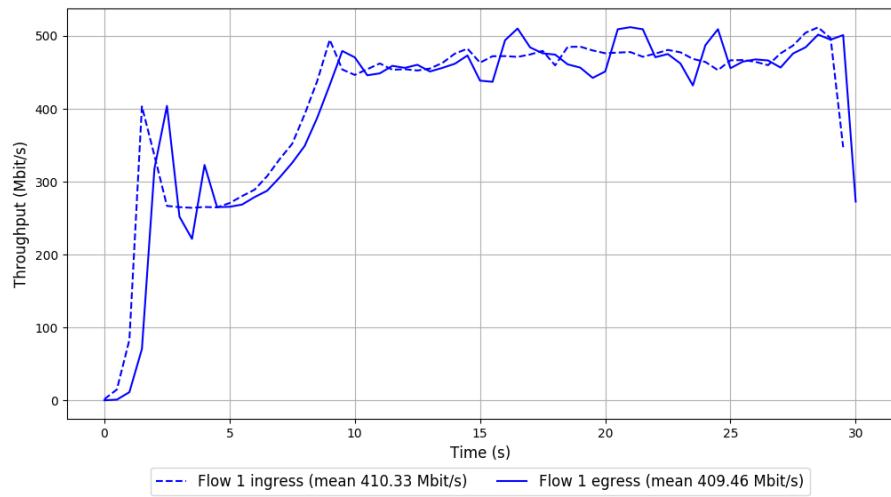


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-27 06:19:32
End at: 2019-03-27 06:20:02
Local clock offset: -0.12 ms
Remote clock offset: -0.332 ms

# Below is generated by plot.py at 2019-03-27 09:17:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 409.46 Mbit/s
95th percentile per-packet one-way delay: 142.444 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 409.46 Mbit/s
95th percentile per-packet one-way delay: 142.444 ms
Loss rate: 0.63%
```

Run 3: Report of PCC-Allegro — Data Link

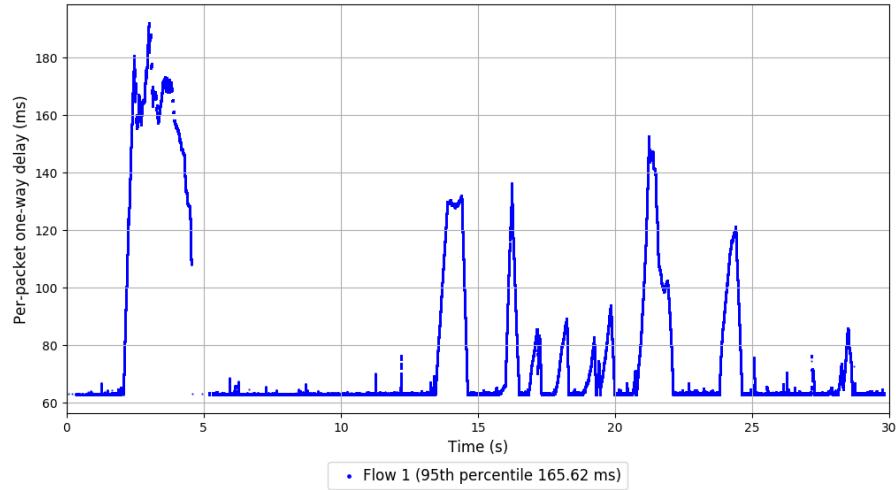
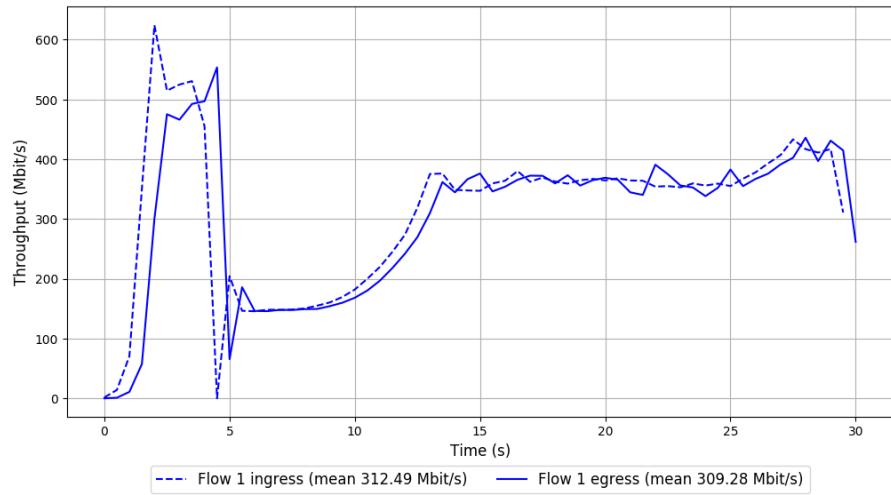


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-27 06:49:51
End at: 2019-03-27 06:50:21
Local clock offset: -0.074 ms
Remote clock offset: 0.256 ms

# Below is generated by plot.py at 2019-03-27 09:17:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 309.28 Mbit/s
95th percentile per-packet one-way delay: 165.615 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 309.28 Mbit/s
95th percentile per-packet one-way delay: 165.615 ms
Loss rate: 1.45%
```

Run 4: Report of PCC-Allegro — Data Link

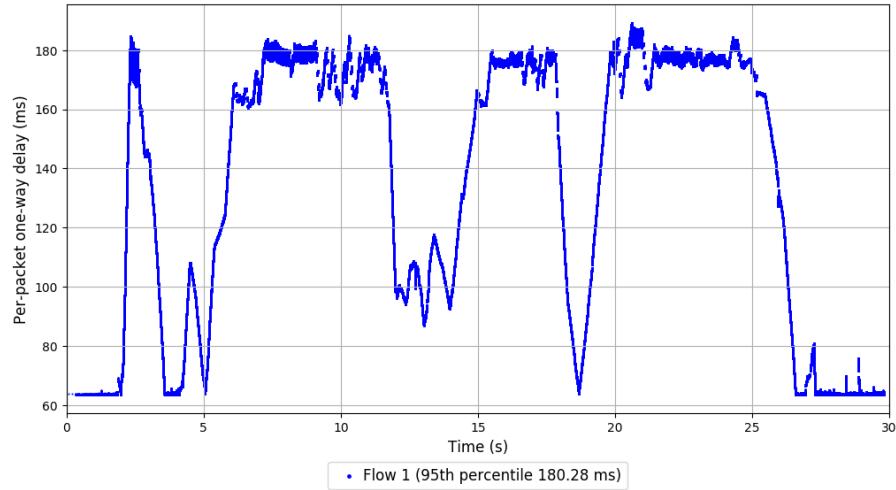
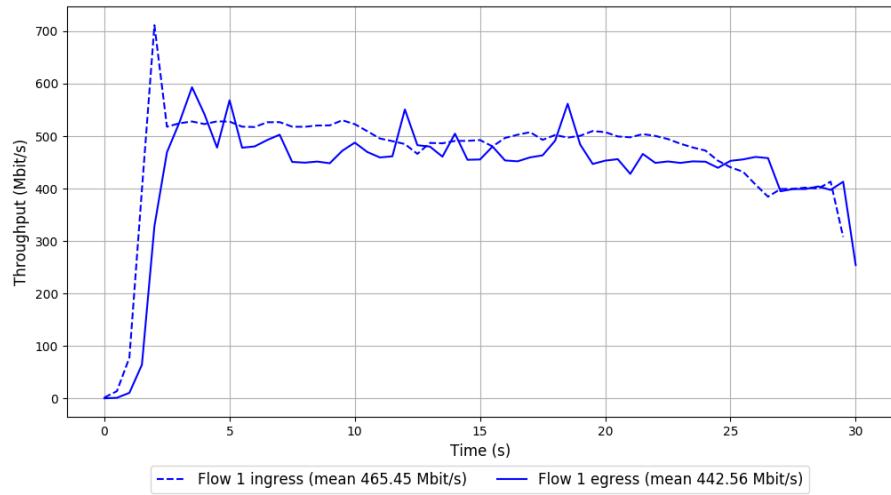


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-27 07:20:18
End at: 2019-03-27 07:20:48
Local clock offset: 0.003 ms
Remote clock offset: -0.823 ms

# Below is generated by plot.py at 2019-03-27 09:22:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 442.56 Mbit/s
95th percentile per-packet one-way delay: 180.284 ms
Loss rate: 5.32%
-- Flow 1:
Average throughput: 442.56 Mbit/s
95th percentile per-packet one-way delay: 180.284 ms
Loss rate: 5.32%
```

Run 5: Report of PCC-Allegro — Data Link

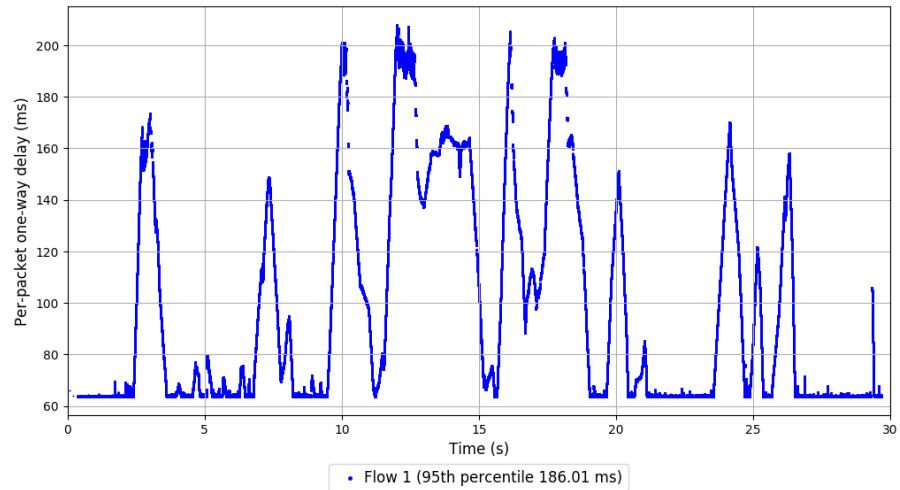
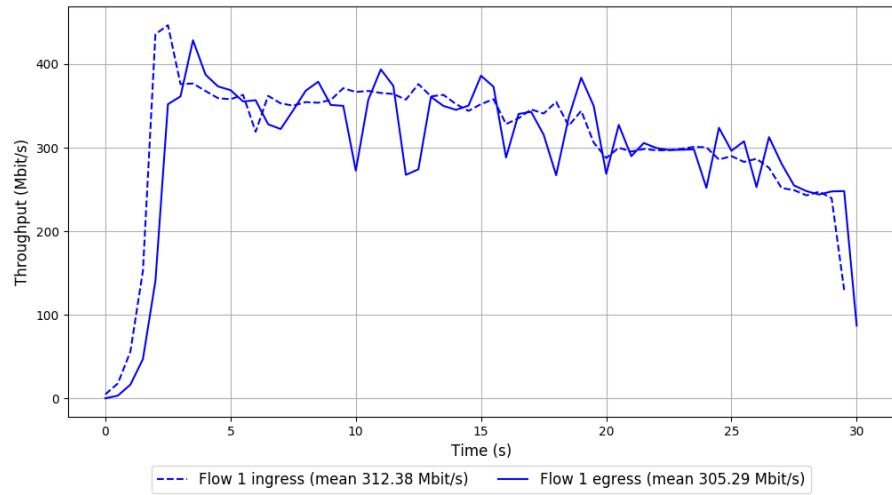


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-03-27 05:34:17
End at: 2019-03-27 05:34:47
Local clock offset: -0.037 ms
Remote clock offset: -1.153 ms

# Below is generated by plot.py at 2019-03-27 09:22:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 305.29 Mbit/s
95th percentile per-packet one-way delay: 186.010 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 305.29 Mbit/s
95th percentile per-packet one-way delay: 186.010 ms
Loss rate: 2.69%
```

Run 1: Report of PCC-Expr — Data Link

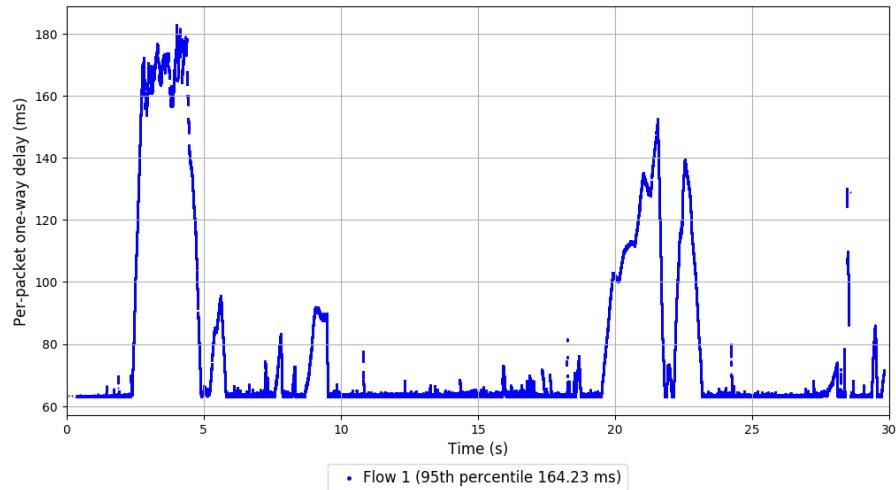
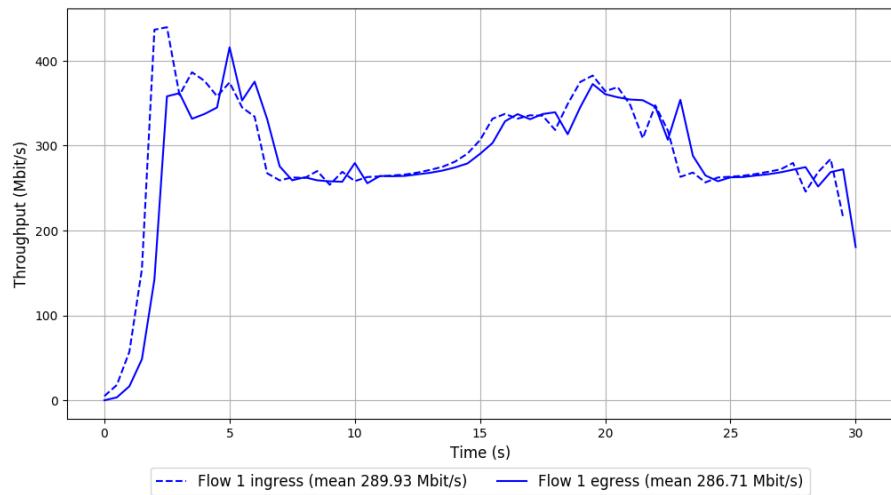


Run 2: Statistics of PCC-Expr

```
Start at: 2019-03-27 06:04:40
End at: 2019-03-27 06:05:10
Local clock offset: -0.132 ms
Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2019-03-27 09:22:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 286.71 Mbit/s
95th percentile per-packet one-way delay: 164.230 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 286.71 Mbit/s
95th percentile per-packet one-way delay: 164.230 ms
Loss rate: 1.53%
```

Run 2: Report of PCC-Expr — Data Link

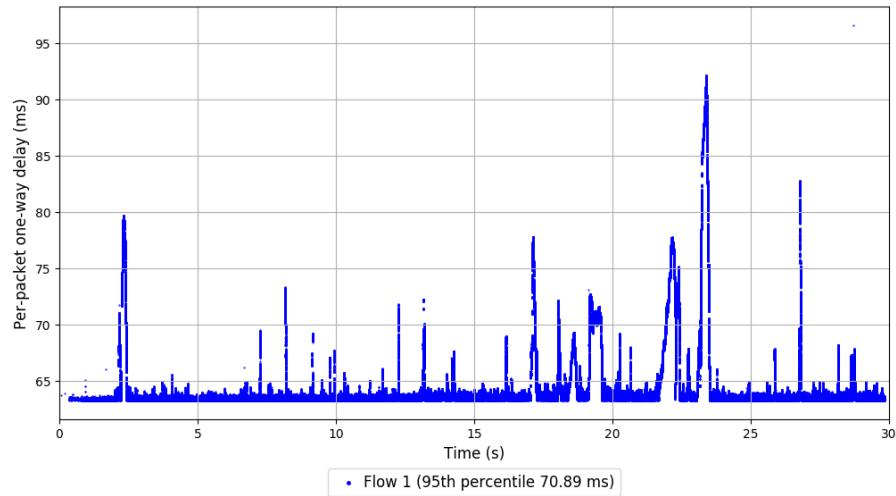
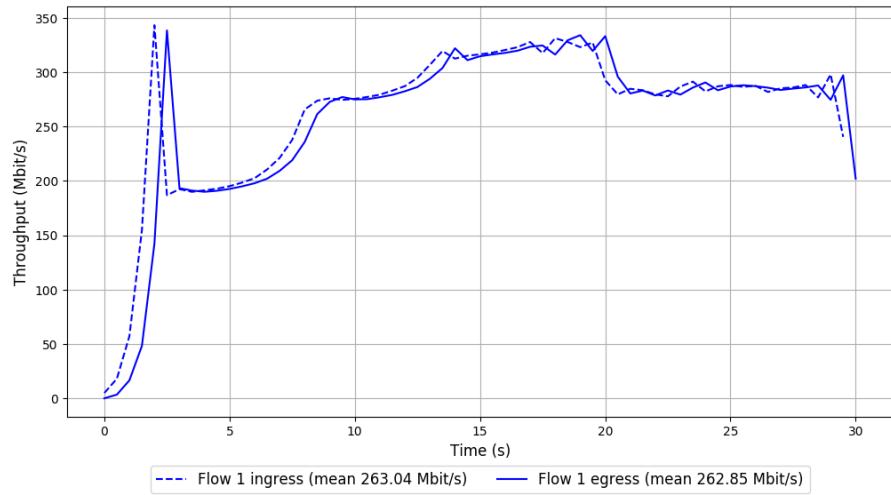


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-27 06:35:15
End at: 2019-03-27 06:35:45
Local clock offset: -0.125 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-03-27 09:22:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 262.85 Mbit/s
95th percentile per-packet one-way delay: 70.889 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 262.85 Mbit/s
95th percentile per-packet one-way delay: 70.889 ms
Loss rate: 0.50%
```

Run 3: Report of PCC-Expr — Data Link

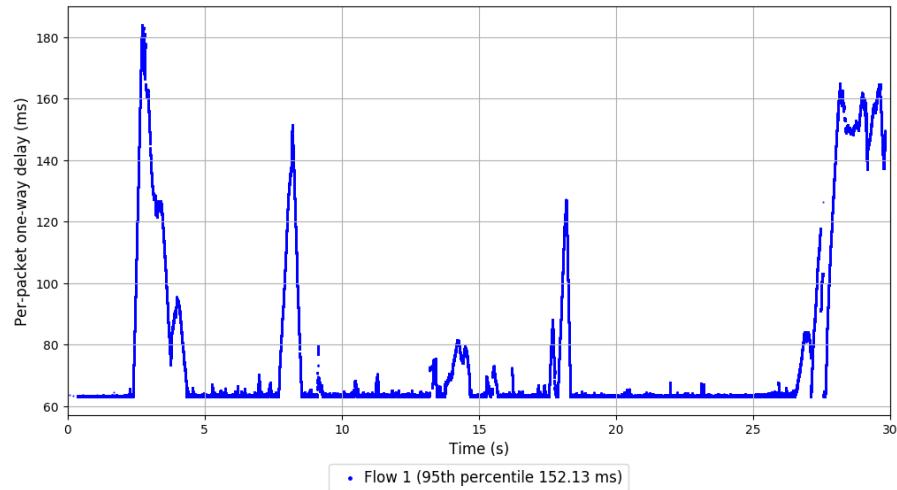
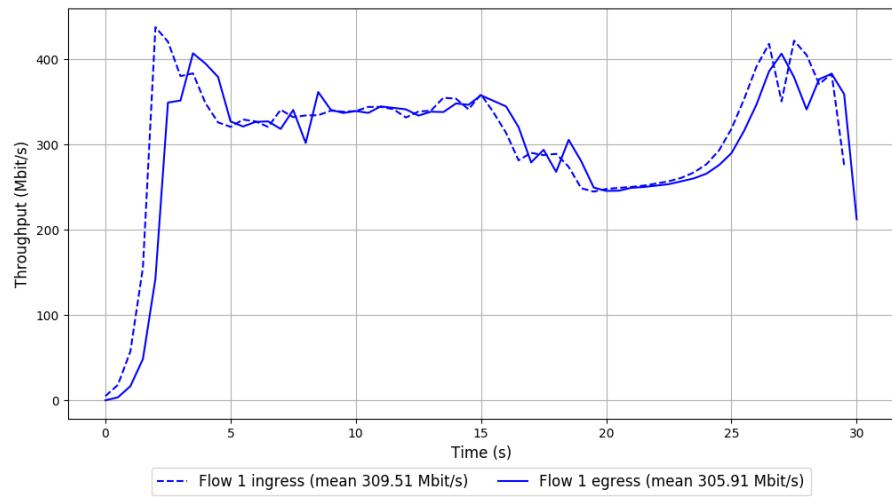


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-27 07:05:34
End at: 2019-03-27 07:06:04
Local clock offset: -0.021 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 305.91 Mbit/s
95th percentile per-packet one-way delay: 152.132 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 305.91 Mbit/s
95th percentile per-packet one-way delay: 152.132 ms
Loss rate: 1.59%
```

Run 4: Report of PCC-Expr — Data Link

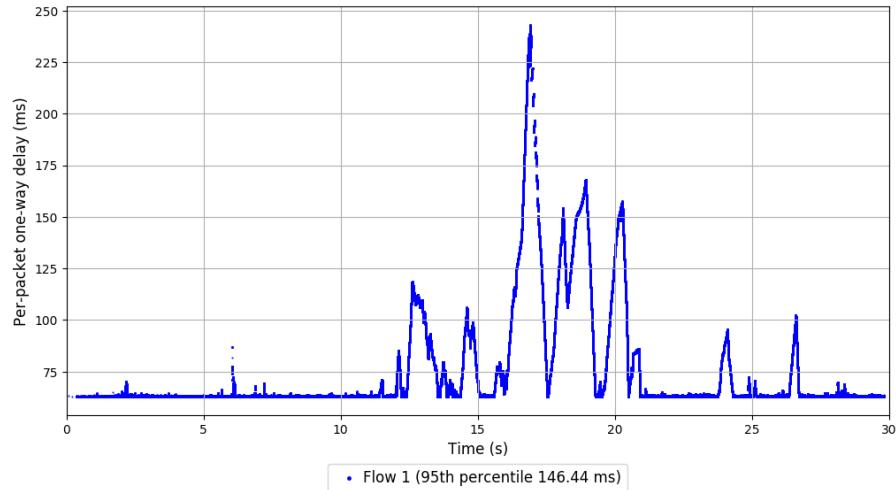
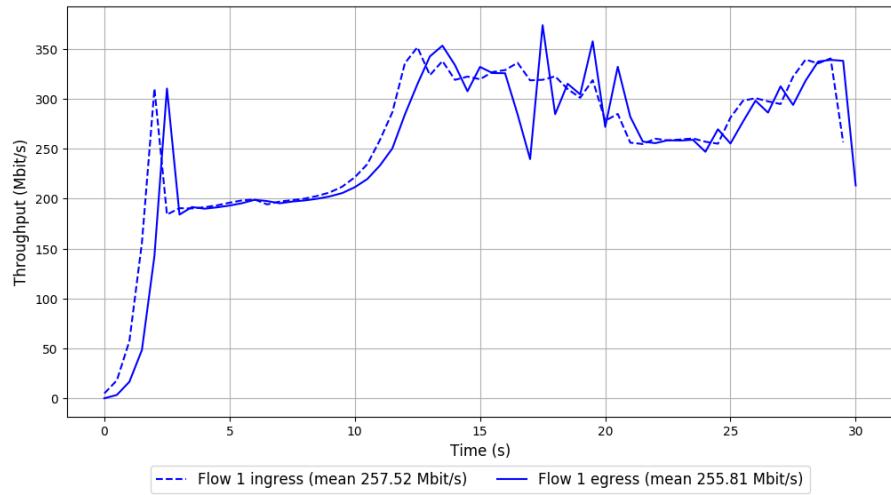


Run 5: Statistics of PCC-Expr

```
Start at: 2019-03-27 07:36:01
End at: 2019-03-27 07:36:31
Local clock offset: -0.048 ms
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 255.81 Mbit/s
95th percentile per-packet one-way delay: 146.438 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 255.81 Mbit/s
95th percentile per-packet one-way delay: 146.438 ms
Loss rate: 1.09%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

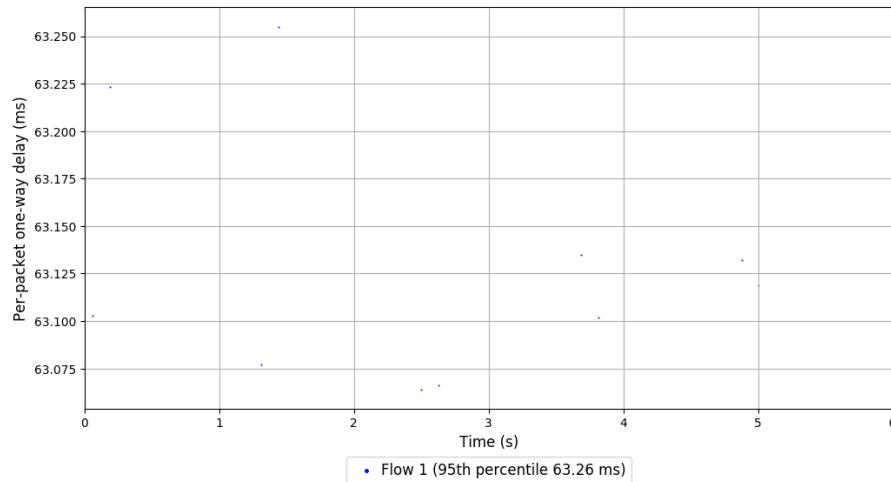
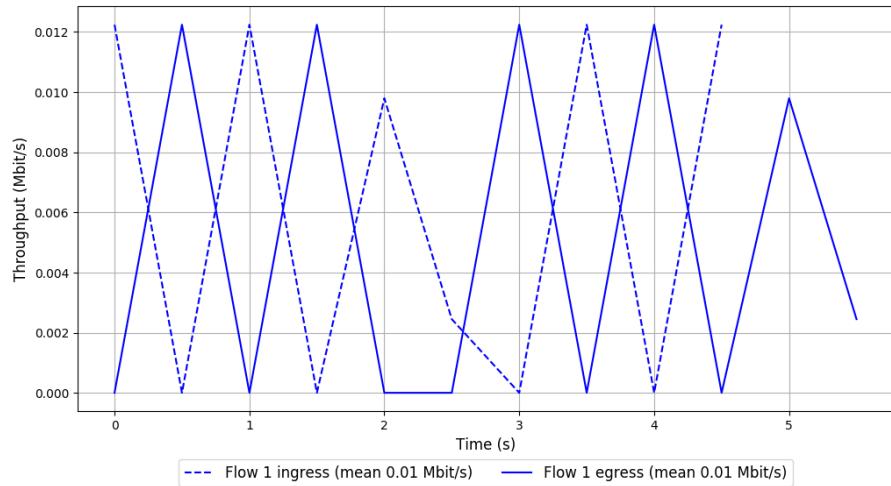
Start at: 2019-03-27 05:17:36

End at: 2019-03-27 05:18:06

Local clock offset: -0.043 ms

Remote clock offset: -0.267 ms

Run 1: Report of QUIC Cubic — Data Link

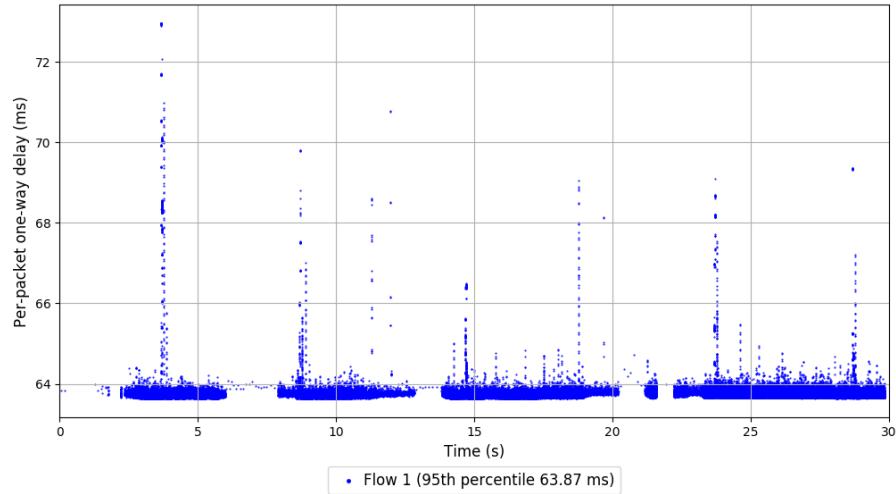
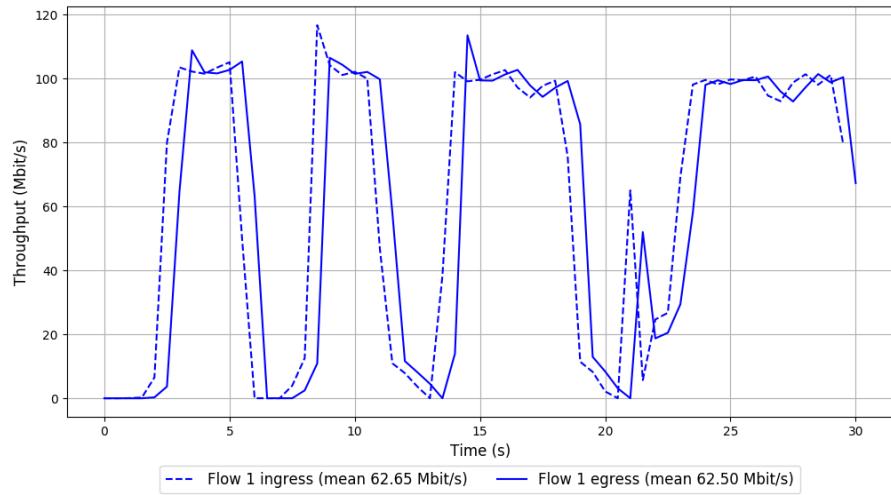


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-27 05:47:44
End at: 2019-03-27 05:48:14
Local clock offset: -0.082 ms
Remote clock offset: -0.927 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.50 Mbit/s
95th percentile per-packet one-way delay: 63.874 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 62.50 Mbit/s
95th percentile per-packet one-way delay: 63.874 ms
Loss rate: 0.67%
```

Run 2: Report of QUIC Cubic — Data Link

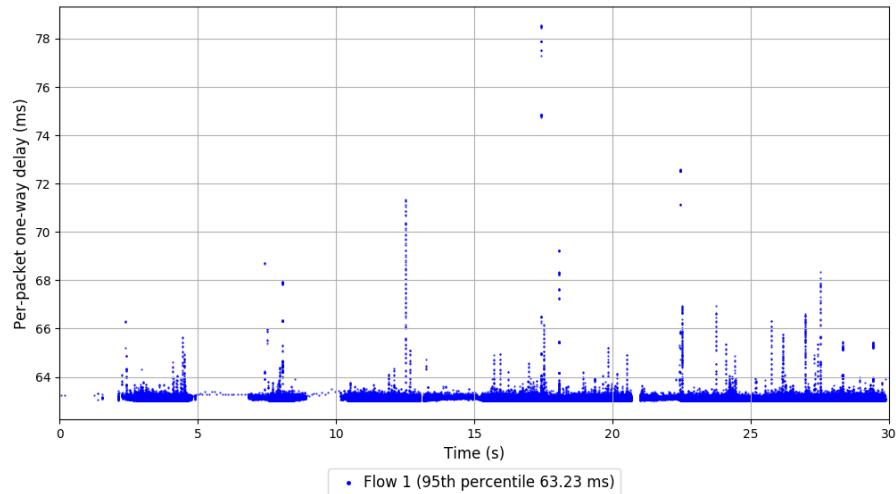
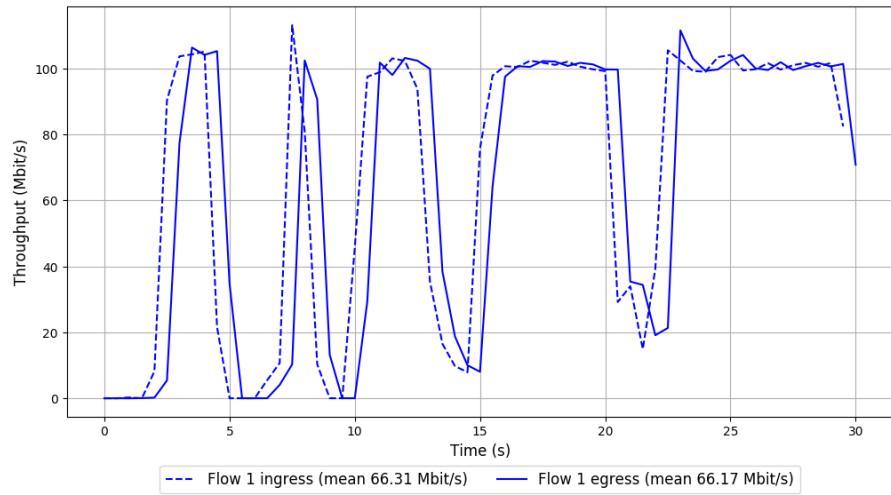


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-27 06:18:20
End at: 2019-03-27 06:18:50
Local clock offset: -0.082 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.17 Mbit/s
95th percentile per-packet one-way delay: 63.231 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 66.17 Mbit/s
95th percentile per-packet one-way delay: 63.231 ms
Loss rate: 0.62%
```

Run 3: Report of QUIC Cubic — Data Link

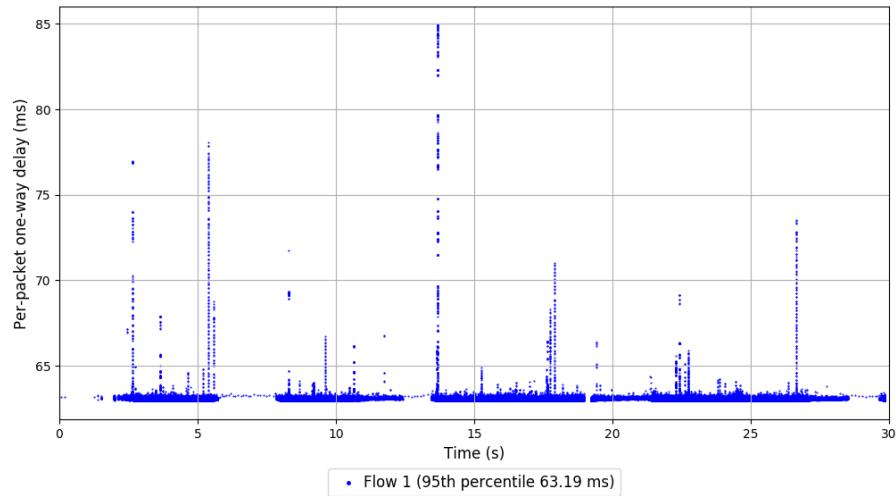
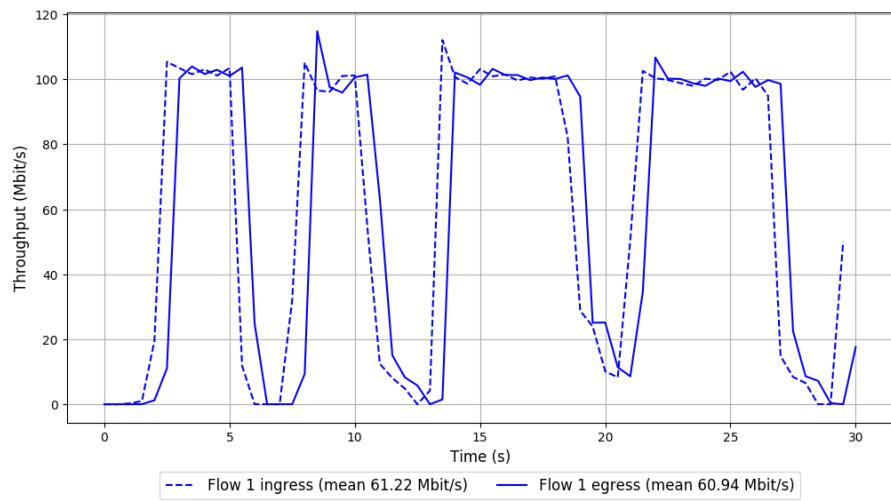


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-27 06:48:40
End at: 2019-03-27 06:49:10
Local clock offset: -0.087 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.94 Mbit/s
95th percentile per-packet one-way delay: 63.193 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 60.94 Mbit/s
95th percentile per-packet one-way delay: 63.193 ms
Loss rate: 0.89%
```

Run 4: Report of QUIC Cubic — Data Link

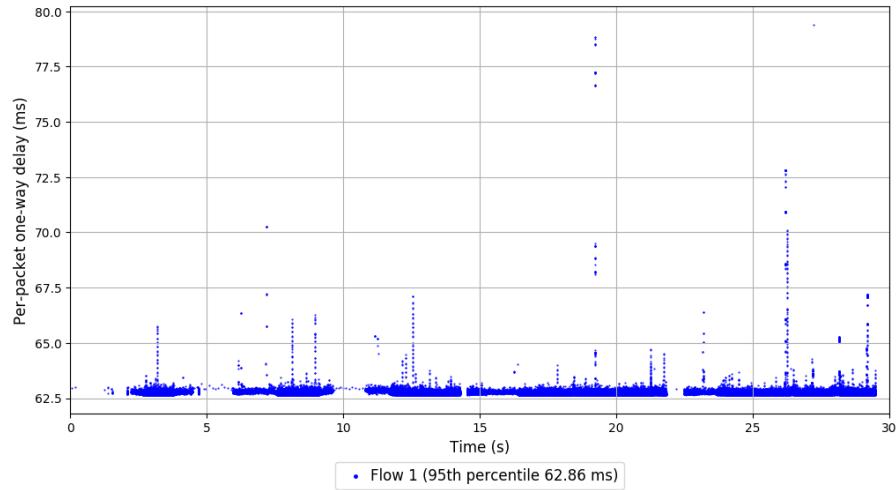
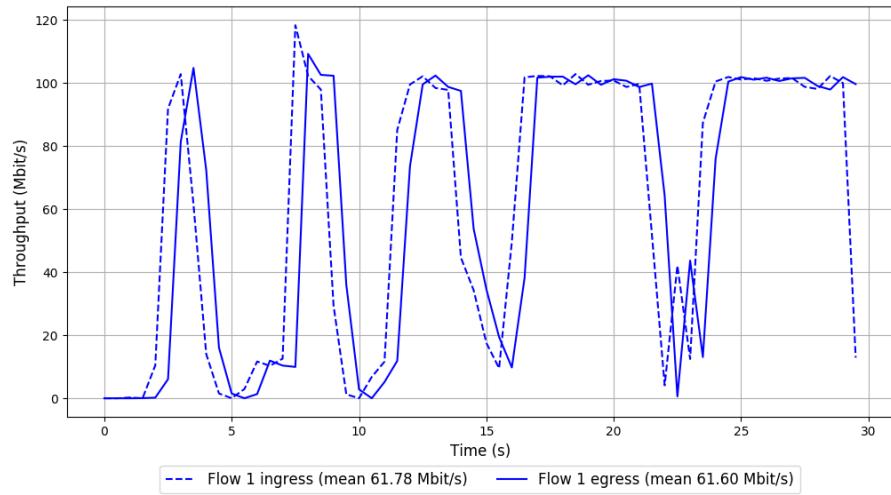


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-27 07:19:06
End at: 2019-03-27 07:19:36
Local clock offset: 0.021 ms
Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.60 Mbit/s
95th percentile per-packet one-way delay: 62.861 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 61.60 Mbit/s
95th percentile per-packet one-way delay: 62.861 ms
Loss rate: 0.71%
```

Run 5: Report of QUIC Cubic — Data Link

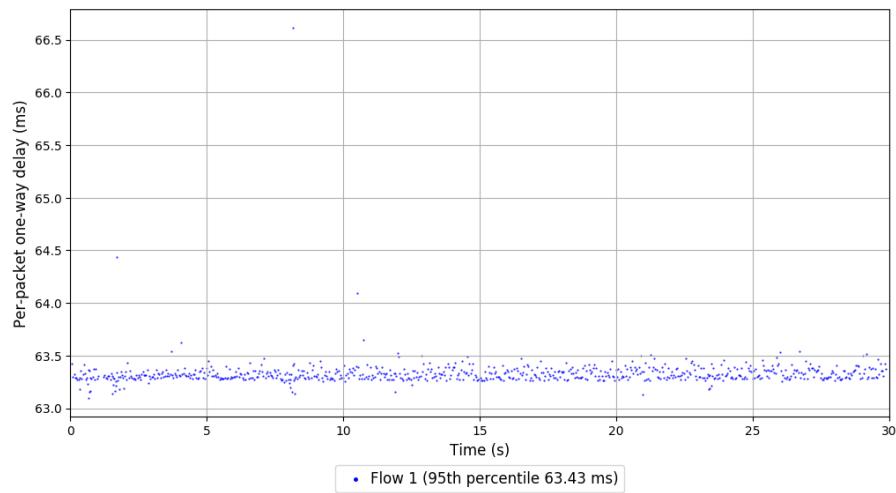
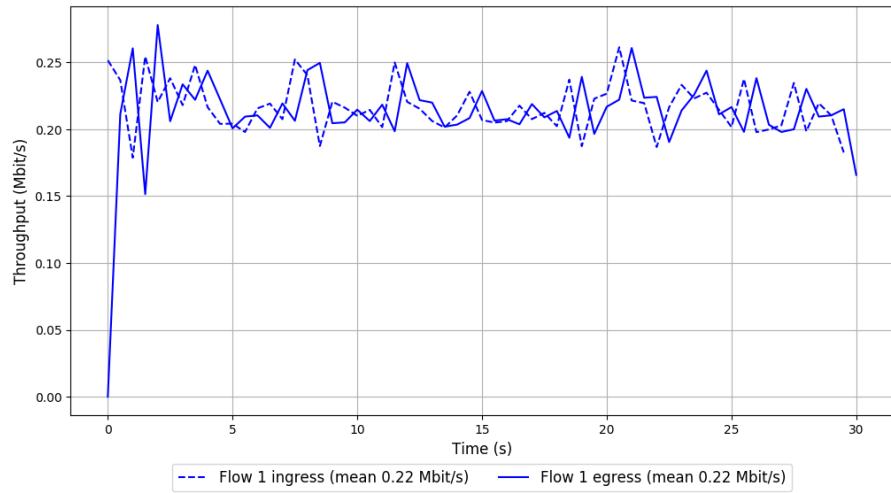


Run 1: Statistics of SCReAM

```
Start at: 2019-03-27 05:44:58
End at: 2019-03-27 05:45:28
Local clock offset: -0.065 ms
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.431 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.431 ms
Loss rate: 0.38%
```

Run 1: Report of SCReAM — Data Link

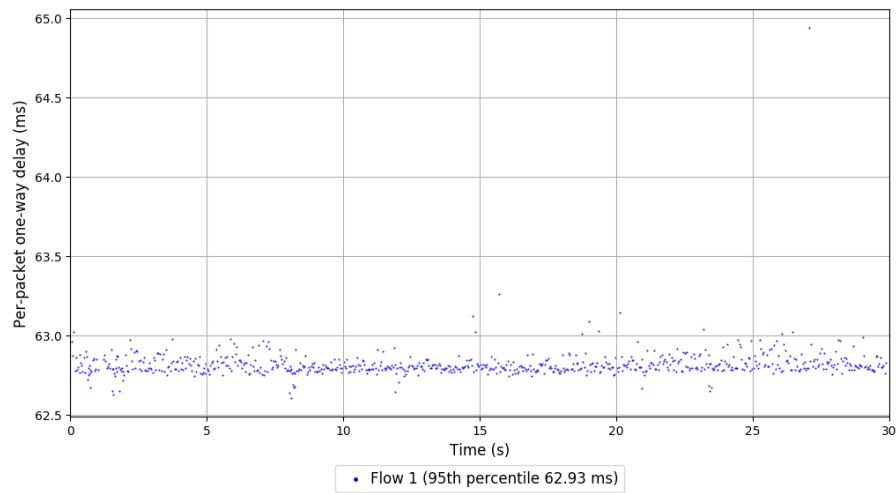
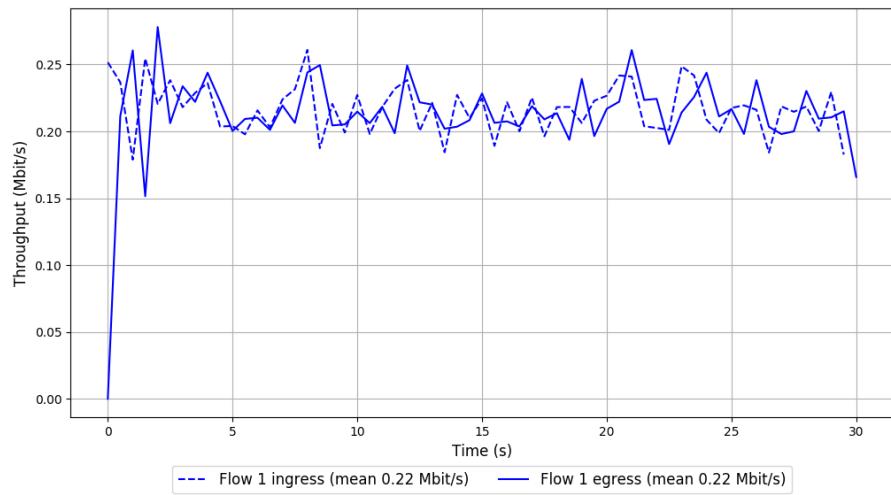


Run 2: Statistics of SCReAM

```
Start at: 2019-03-27 06:15:35
End at: 2019-03-27 06:16:05
Local clock offset: -0.134 ms
Remote clock offset: 0.225 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.929 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.929 ms
Loss rate: 0.38%
```

Run 2: Report of SCReAM — Data Link

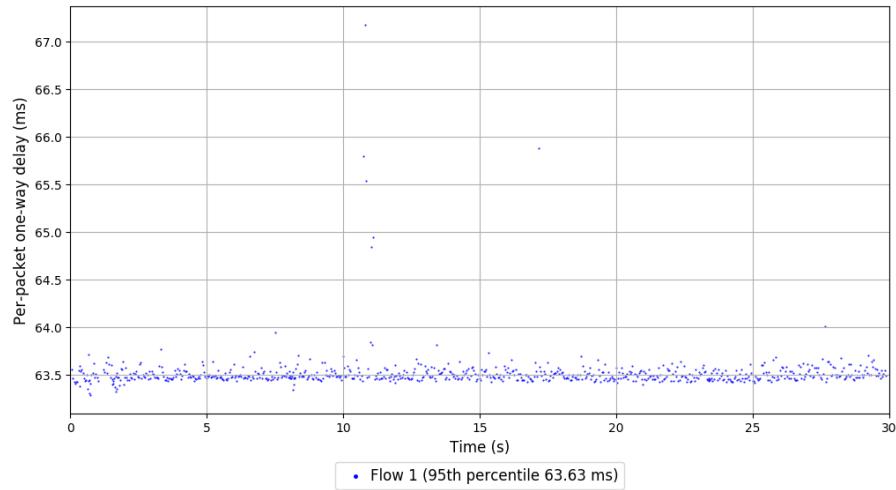
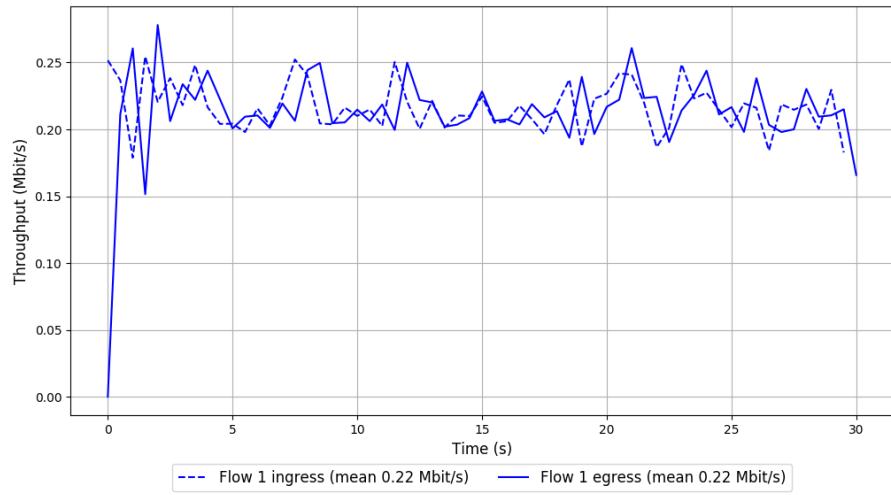


Run 3: Statistics of SCReAM

```
Start at: 2019-03-27 06:46:00
End at: 2019-03-27 06:46:30
Local clock offset: -0.093 ms
Remote clock offset: 0.206 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.635 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.635 ms
Loss rate: 0.38%
```

Run 3: Report of SCReAM — Data Link

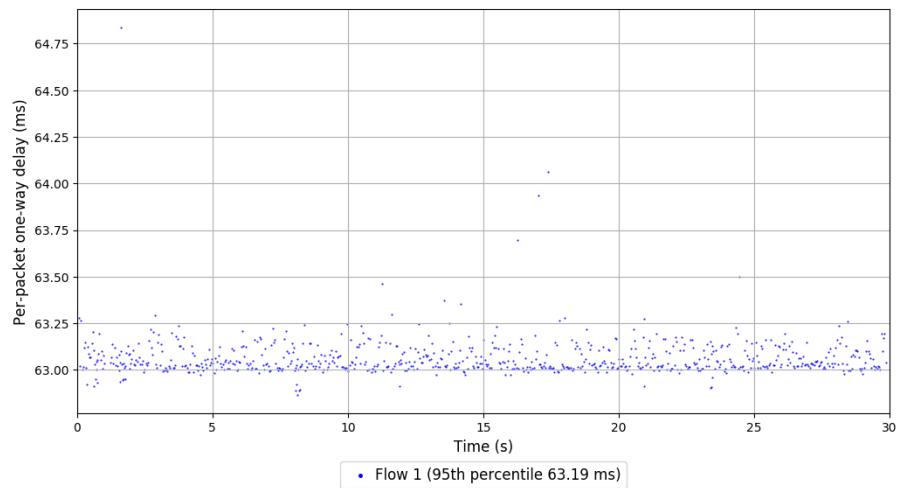
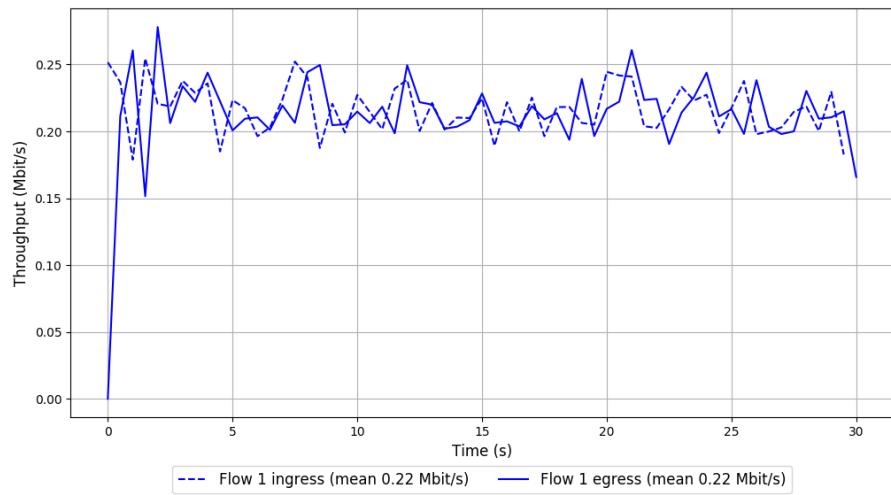


Run 4: Statistics of SCReAM

```
Start at: 2019-03-27 07:16:26
End at: 2019-03-27 07:16:56
Local clock offset: -0.145 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.193 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.193 ms
Loss rate: 0.38%
```

Run 4: Report of SCReAM — Data Link

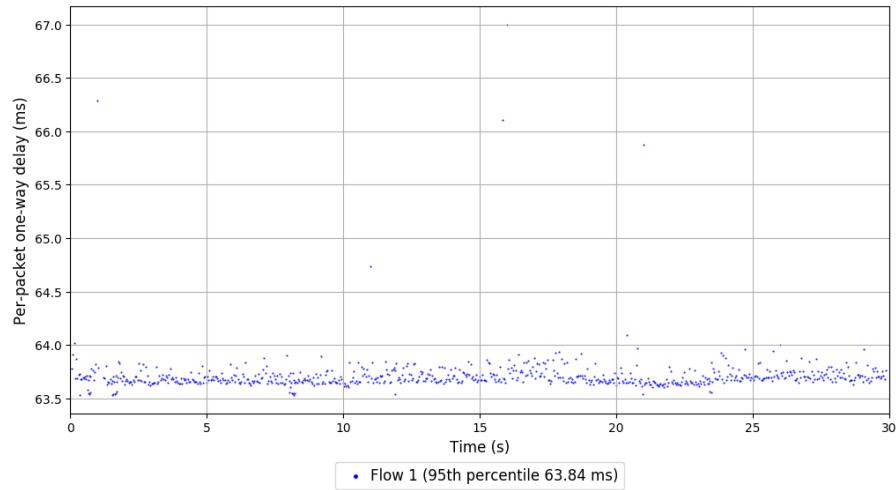
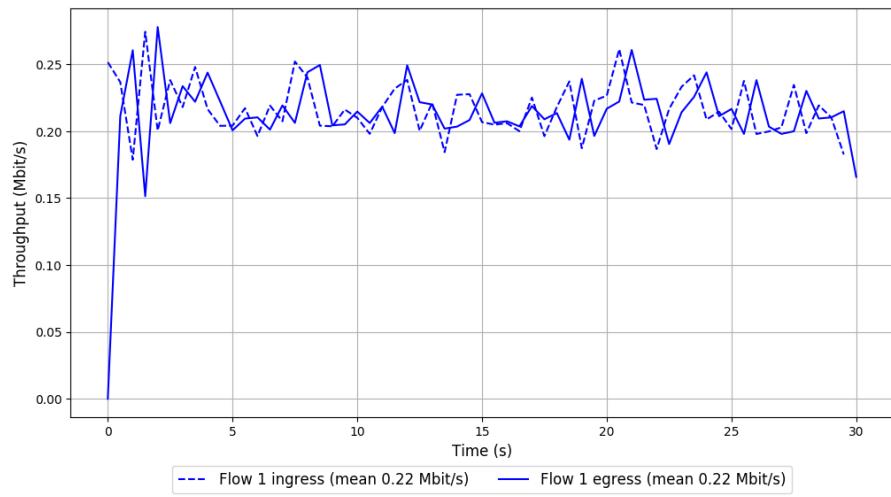


Run 5: Statistics of SCReAM

```
Start at: 2019-03-27 07:46:47
End at: 2019-03-27 07:47:17
Local clock offset: -0.092 ms
Remote clock offset: -0.804 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.841 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.841 ms
Loss rate: 0.38%
```

Run 5: Report of SCReAM — Data Link

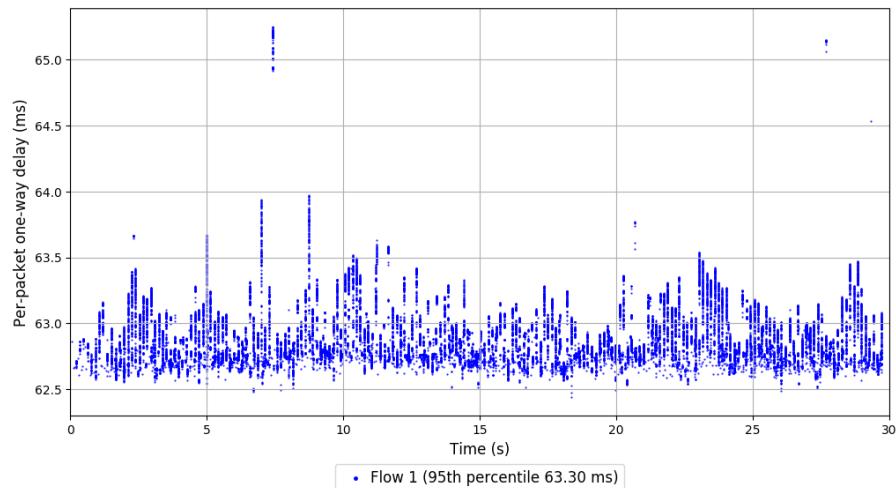
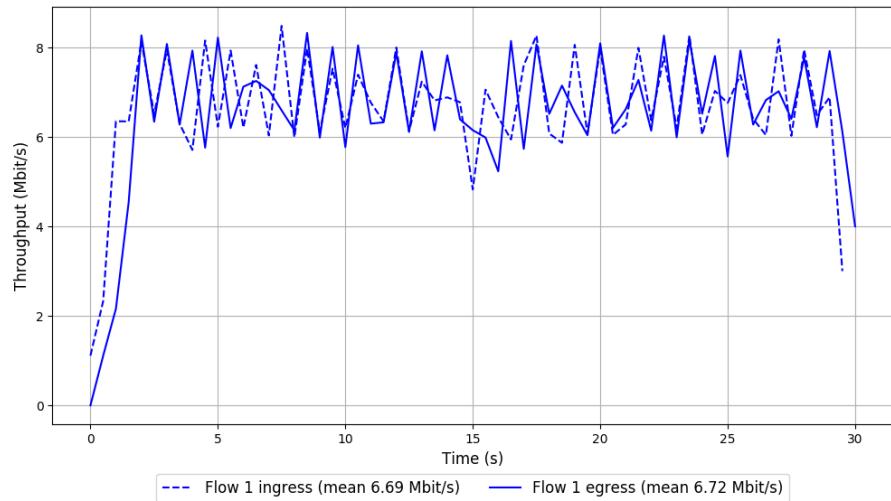


Run 1: Statistics of Sprout

```
Start at: 2019-03-27 05:22:00
End at: 2019-03-27 05:22:30
Local clock offset: -0.091 ms
Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.72 Mbit/s
95th percentile per-packet one-way delay: 63.301 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 6.72 Mbit/s
95th percentile per-packet one-way delay: 63.301 ms
Loss rate: 0.03%
```

Run 1: Report of Sprout — Data Link

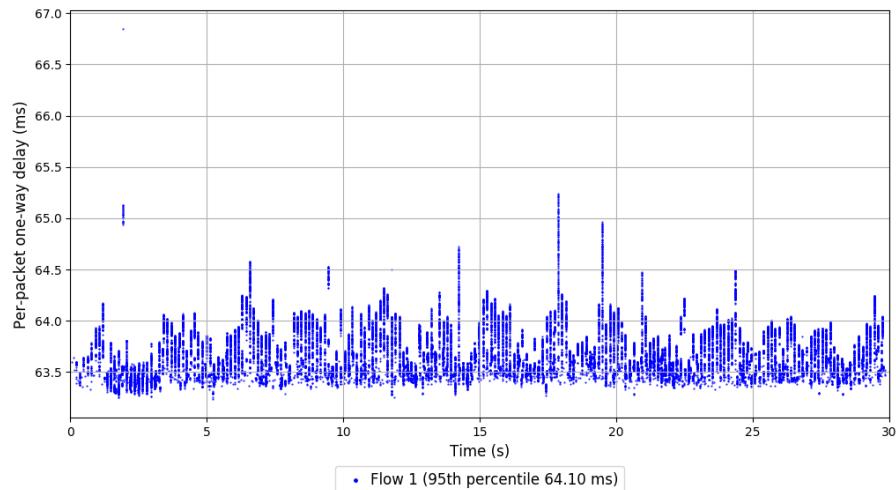
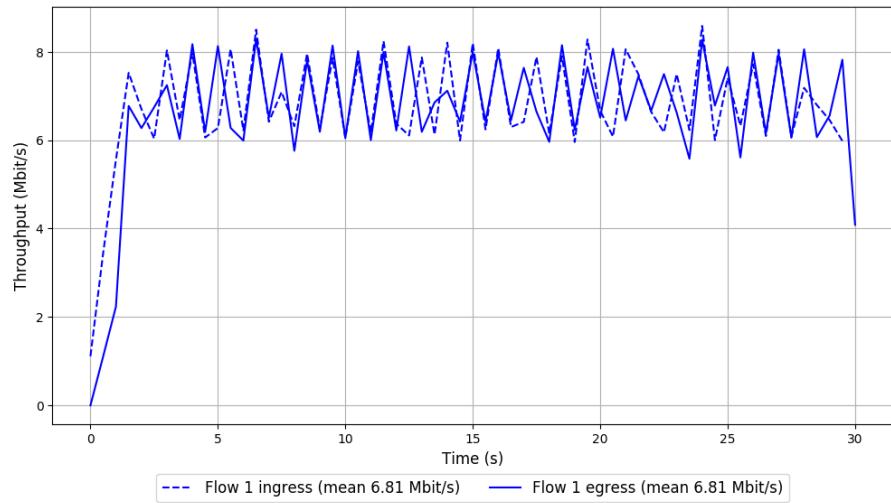


Run 2: Statistics of Sprout

```
Start at: 2019-03-27 05:52:11
End at: 2019-03-27 05:52:41
Local clock offset: -0.084 ms
Remote clock offset: -0.617 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 64.098 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 64.098 ms
Loss rate: 0.47%
```

Run 2: Report of Sprout — Data Link

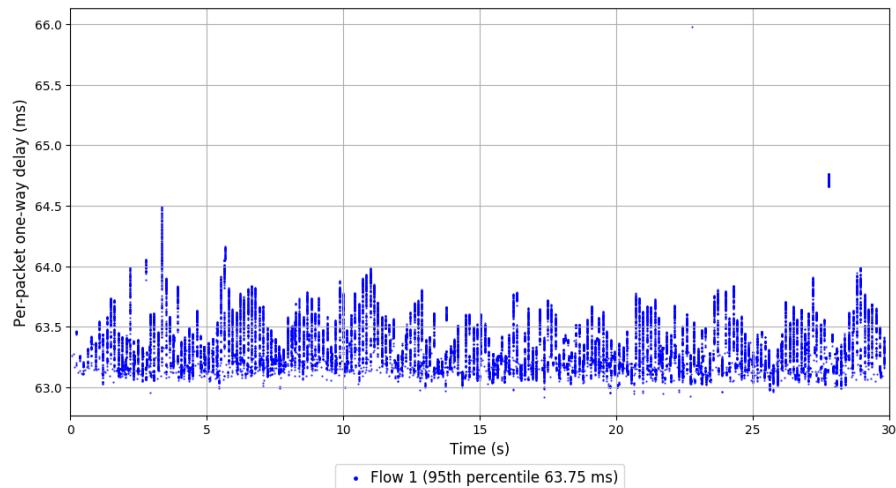
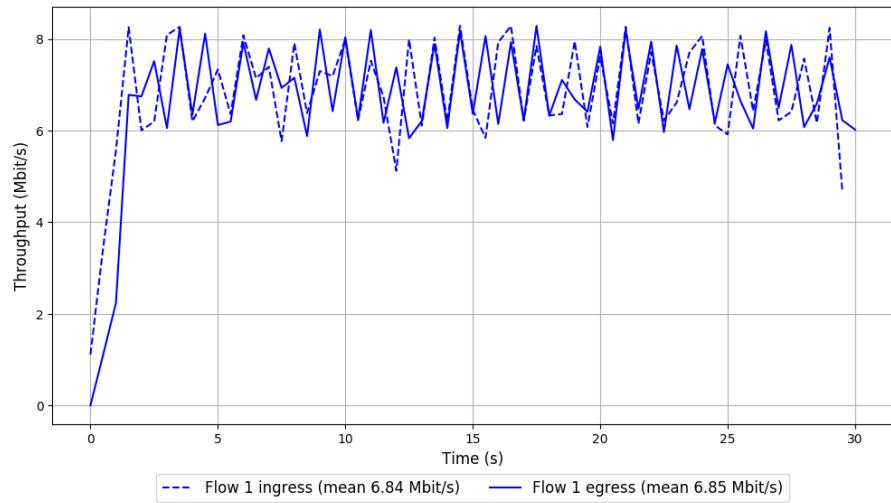


Run 3: Statistics of Sprout

```
Start at: 2019-03-27 06:22:50
End at: 2019-03-27 06:23:20
Local clock offset: -0.104 ms
Remote clock offset: 0.139 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.85 Mbit/s
95th percentile per-packet one-way delay: 63.748 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 6.85 Mbit/s
95th percentile per-packet one-way delay: 63.748 ms
Loss rate: 0.16%
```

Run 3: Report of Sprout — Data Link

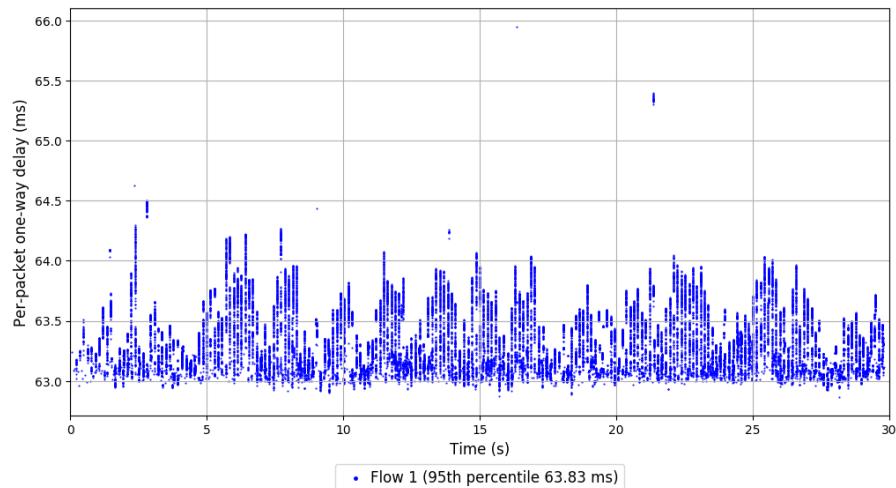
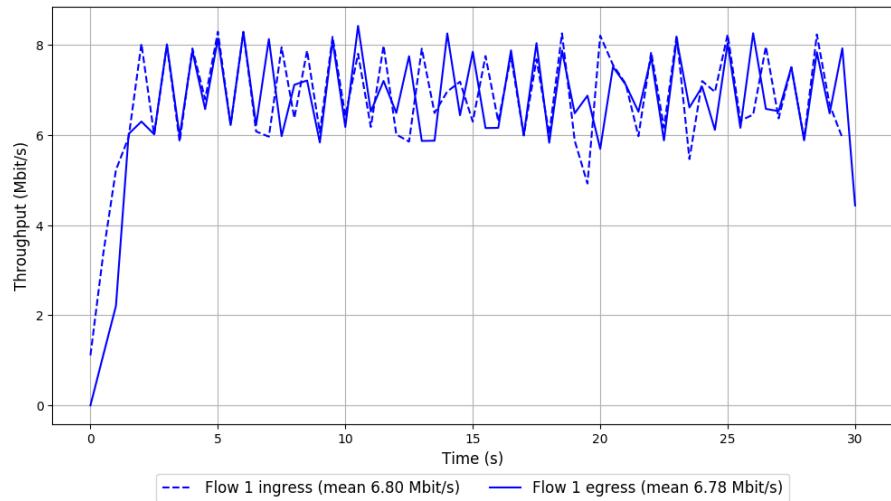


Run 4: Statistics of Sprout

```
Start at: 2019-03-27 06:53:01
End at: 2019-03-27 06:53:31
Local clock offset: -0.08 ms
Remote clock offset: 0.135 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 63.831 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 63.831 ms
Loss rate: 0.49%
```

Run 4: Report of Sprout — Data Link

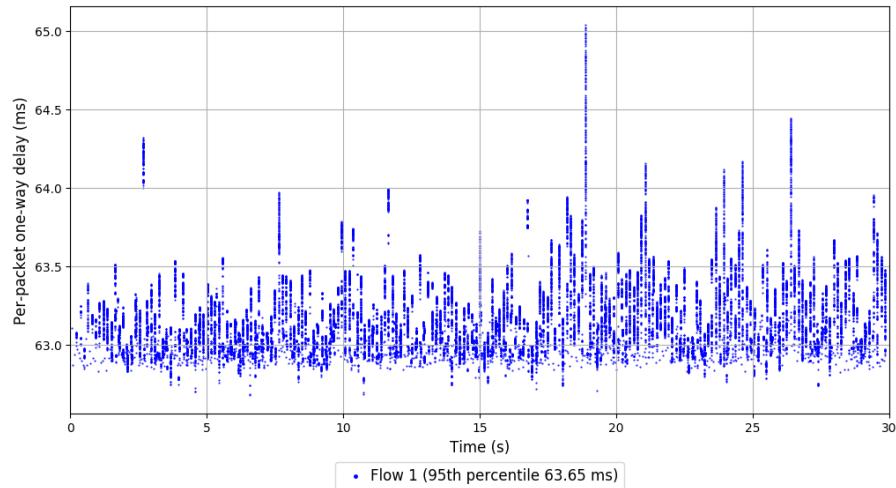
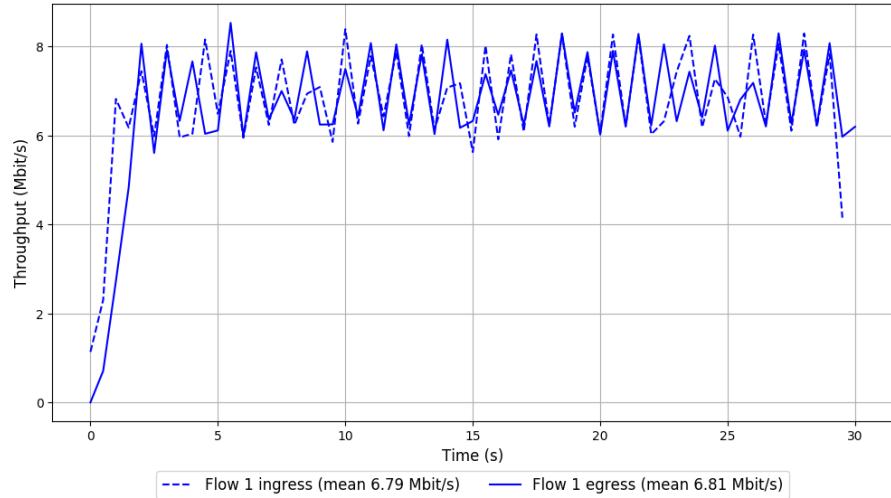


Run 5: Statistics of Sprout

```
Start at: 2019-03-27 07:23:36
End at: 2019-03-27 07:24:06
Local clock offset: -0.053 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-03-27 09:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 63.645 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 63.645 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

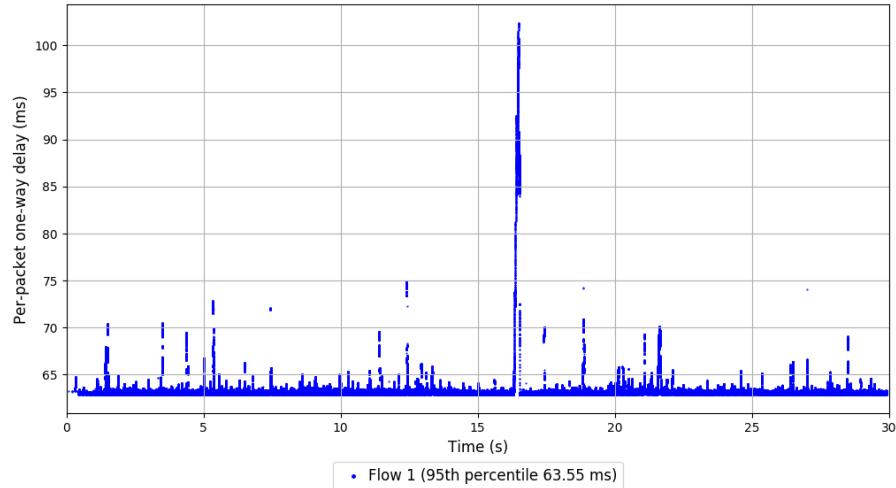
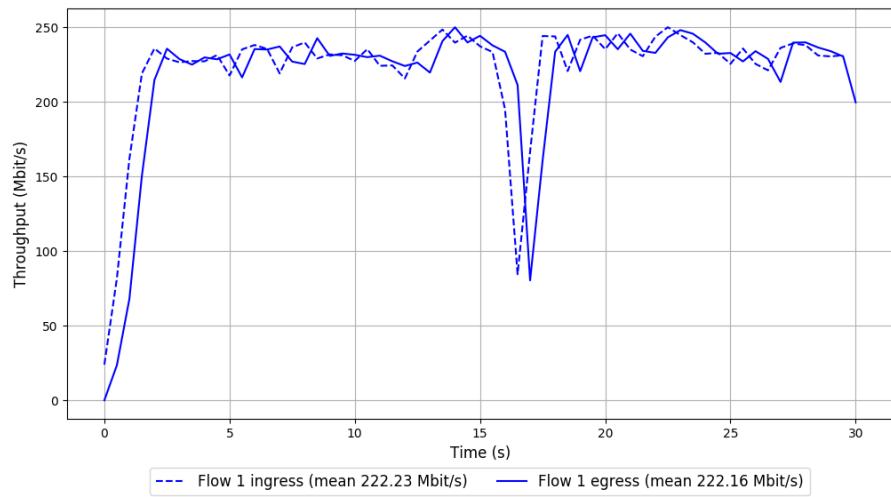


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-03-27 05:26:01
End at: 2019-03-27 05:26:31
Local clock offset: -0.055 ms
Remote clock offset: -0.248 ms

# Below is generated by plot.py at 2019-03-27 09:26:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.16 Mbit/s
95th percentile per-packet one-way delay: 63.545 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 222.16 Mbit/s
95th percentile per-packet one-way delay: 63.545 ms
Loss rate: 0.46%
```

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

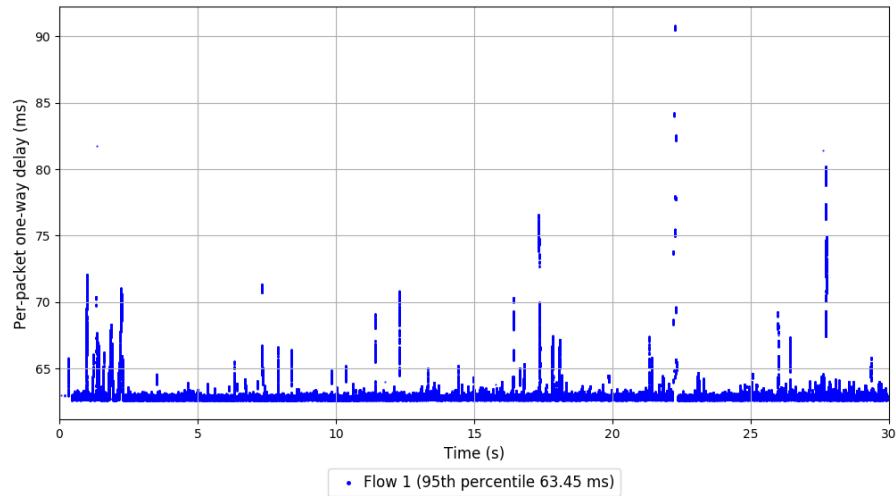
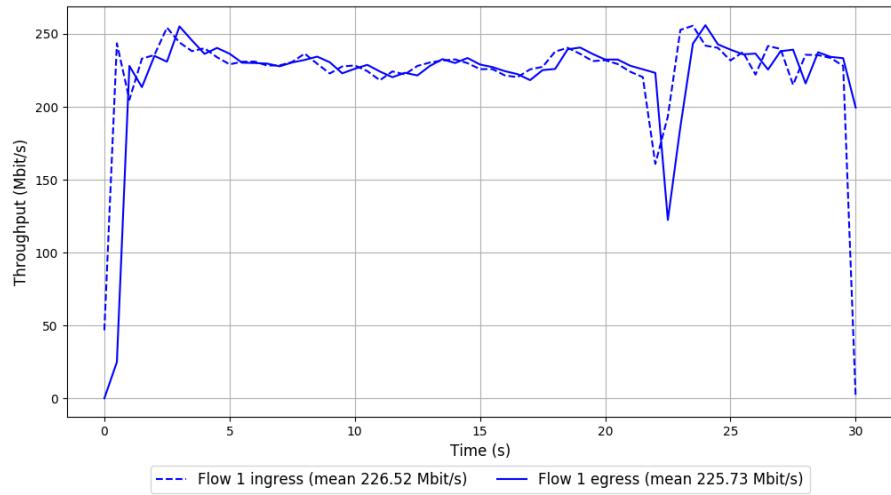


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-03-27 05:56:21
End at: 2019-03-27 05:56:51
Local clock offset: -0.108 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-03-27 09:26:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.73 Mbit/s
95th percentile per-packet one-way delay: 63.453 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 225.73 Mbit/s
95th percentile per-packet one-way delay: 63.453 ms
Loss rate: 0.77%
```

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

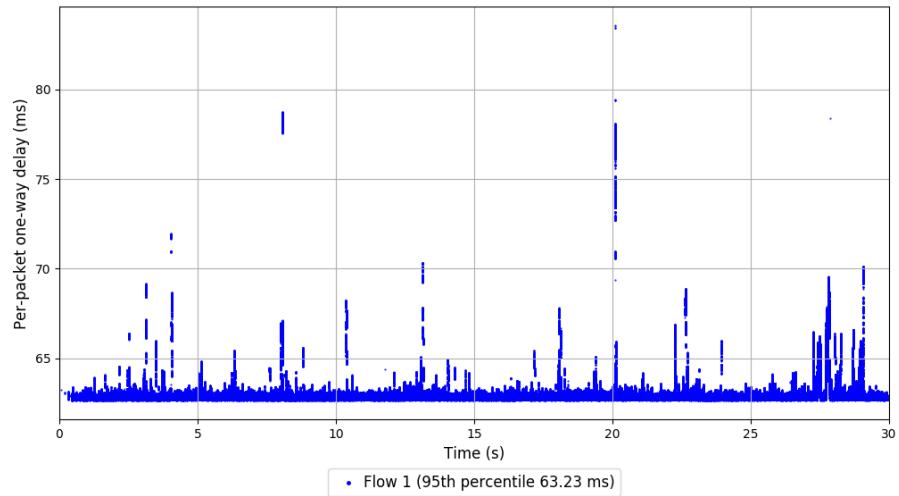
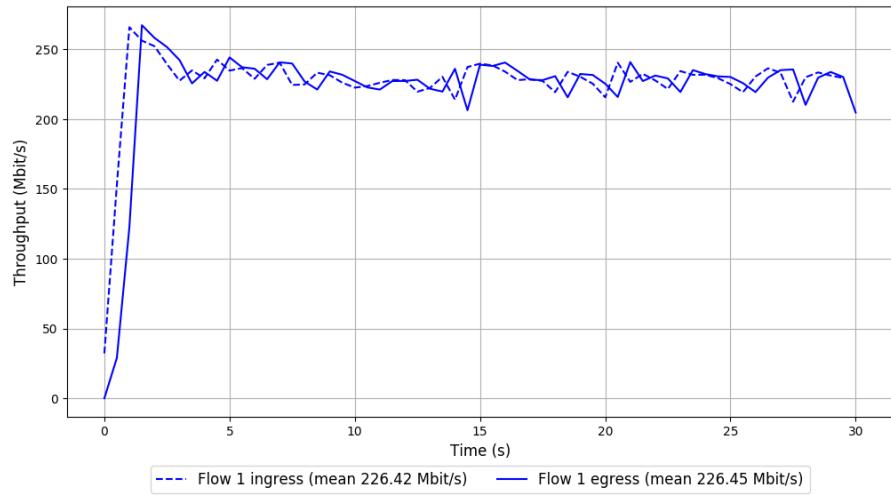


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-03-27 06:27:00
End at: 2019-03-27 06:27:30
Local clock offset: -0.094 ms
Remote clock offset: 0.195 ms

# Below is generated by plot.py at 2019-03-27 09:26:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.45 Mbit/s
95th percentile per-packet one-way delay: 63.231 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 226.45 Mbit/s
95th percentile per-packet one-way delay: 63.231 ms
Loss rate: 0.41%
```

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

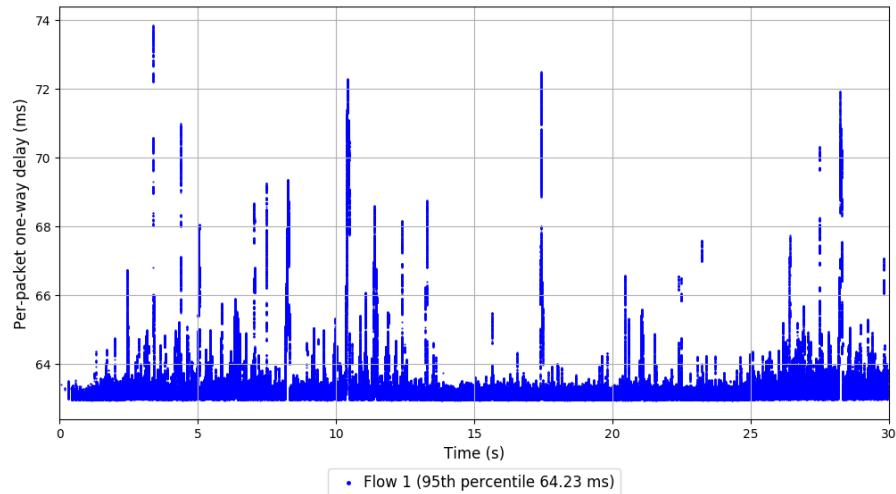
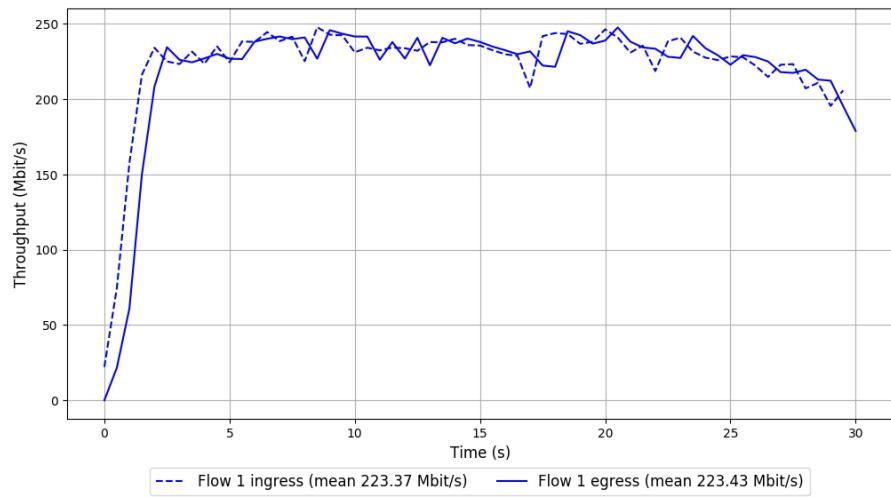


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-03-27 06:57:15
End at: 2019-03-27 06:57:45
Local clock offset: -0.041 ms
Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2019-03-27 09:26:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.43 Mbit/s
95th percentile per-packet one-way delay: 64.232 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 223.43 Mbit/s
95th percentile per-packet one-way delay: 64.232 ms
Loss rate: 0.39%
```

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

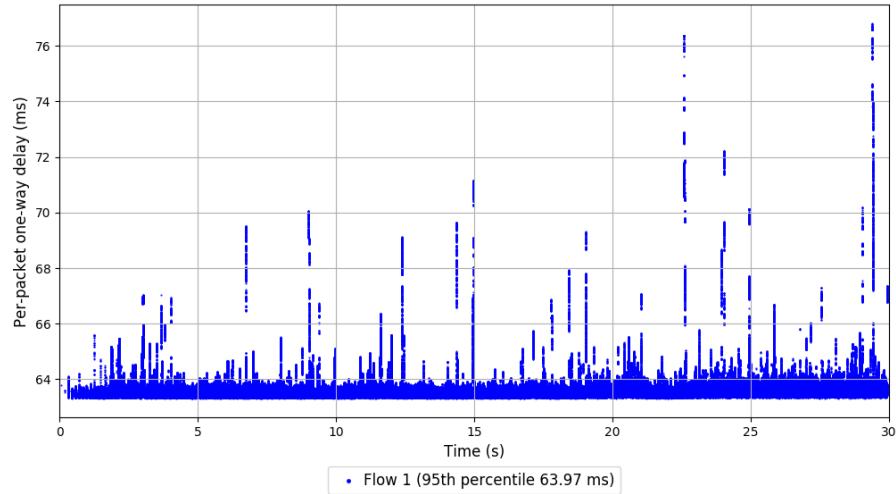
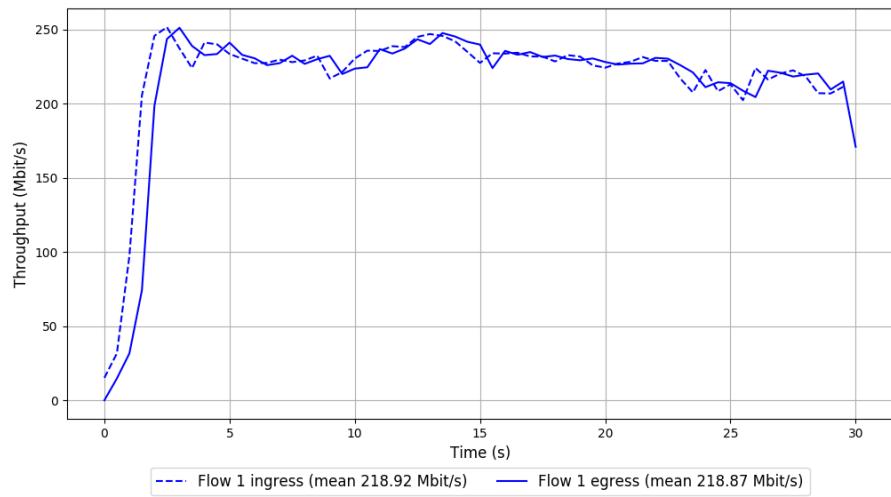


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-03-27 07:27:44
End at: 2019-03-27 07:28:14
Local clock offset: -0.058 ms
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2019-03-27 09:26:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.87 Mbit/s
95th percentile per-packet one-way delay: 63.970 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 218.87 Mbit/s
95th percentile per-packet one-way delay: 63.970 ms
Loss rate: 0.44%
```

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

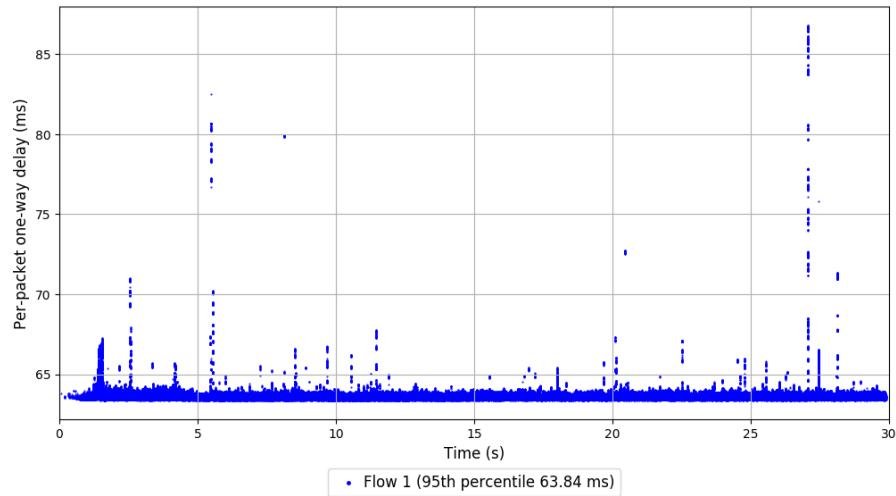
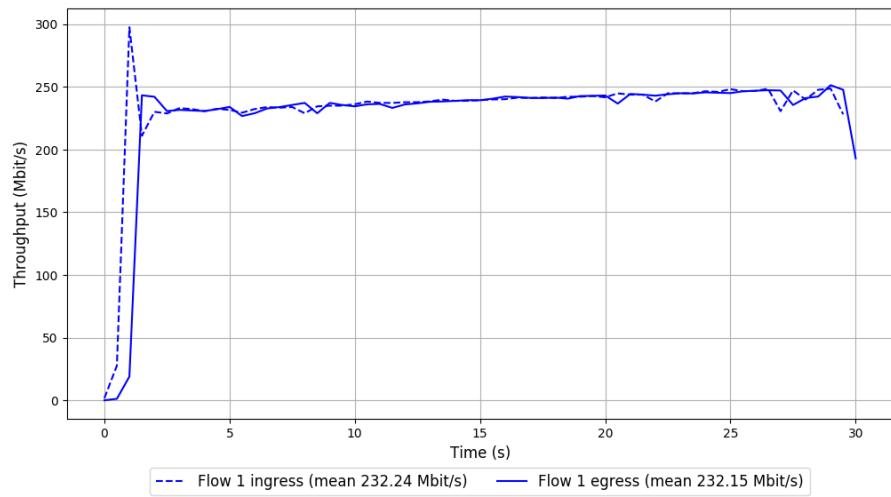


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-27 05:40:32
End at: 2019-03-27 05:41:02
Local clock offset: -0.093 ms
Remote clock offset: -0.868 ms

# Below is generated by plot.py at 2019-03-27 09:27:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.15 Mbit/s
95th percentile per-packet one-way delay: 63.844 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 232.15 Mbit/s
95th percentile per-packet one-way delay: 63.844 ms
Loss rate: 0.45%
```

Run 1: Report of TCP Vegas — Data Link

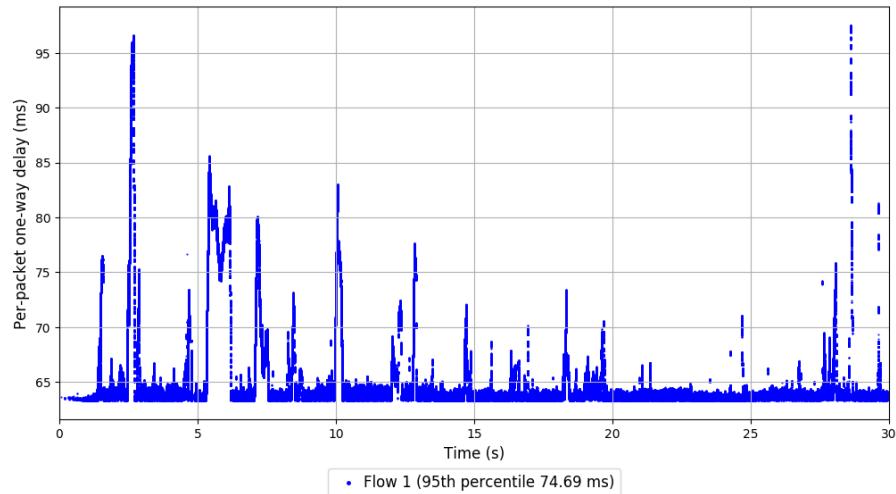
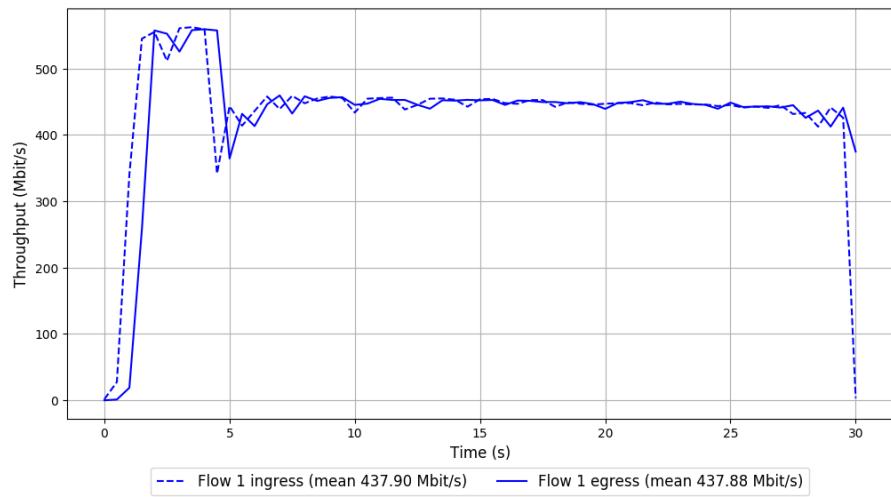


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-27 06:10:58
End at: 2019-03-27 06:11:28
Local clock offset: -0.119 ms
Remote clock offset: -0.246 ms

# Below is generated by plot.py at 2019-03-27 09:32:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 437.88 Mbit/s
95th percentile per-packet one-way delay: 74.692 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 437.88 Mbit/s
95th percentile per-packet one-way delay: 74.692 ms
Loss rate: 0.43%
```

Run 2: Report of TCP Vegas — Data Link

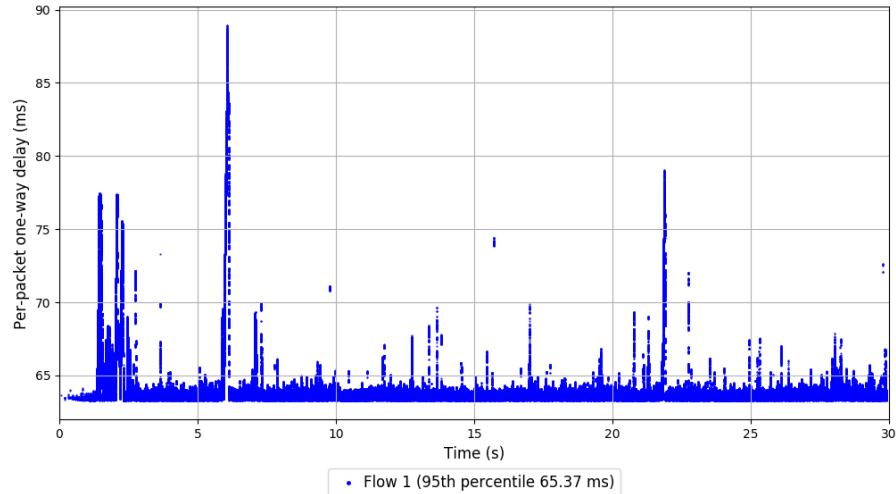
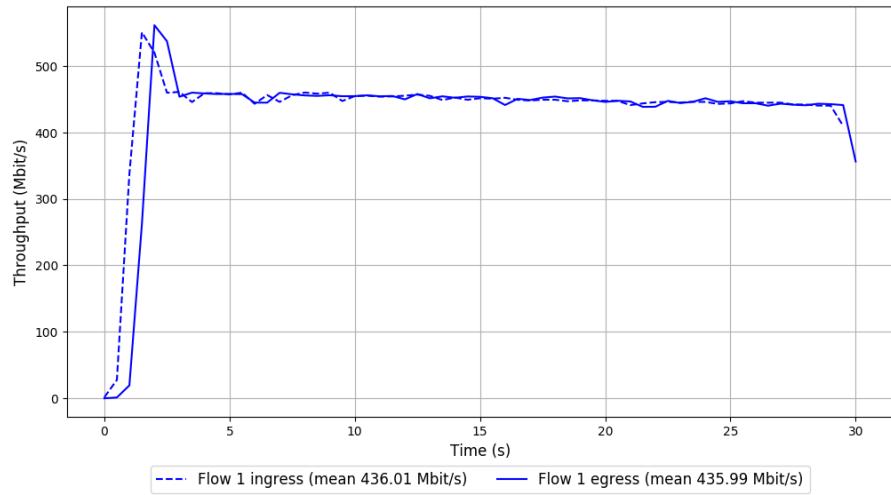


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-27 06:41:25
End at: 2019-03-27 06:41:55
Local clock offset: -0.118 ms
Remote clock offset: 0.149 ms

# Below is generated by plot.py at 2019-03-27 09:33:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 435.99 Mbit/s
95th percentile per-packet one-way delay: 65.372 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 435.99 Mbit/s
95th percentile per-packet one-way delay: 65.372 ms
Loss rate: 0.43%
```

Run 3: Report of TCP Vegas — Data Link

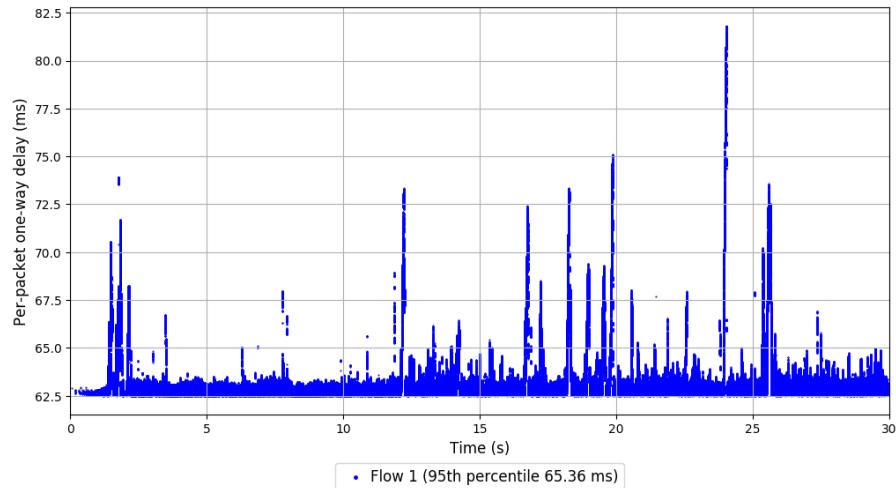
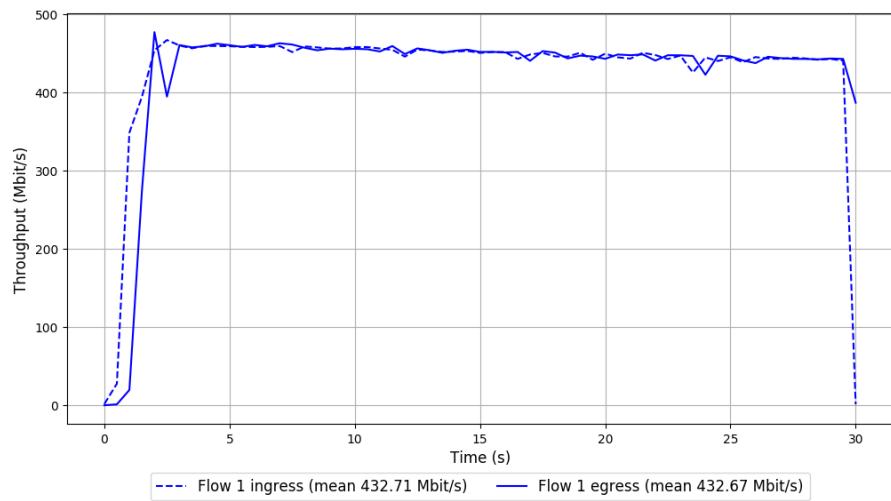


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-27 07:11:51
End at: 2019-03-27 07:12:21
Local clock offset: -0.01 ms
Remote clock offset: 0.14 ms

# Below is generated by plot.py at 2019-03-27 09:33:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 432.67 Mbit/s
95th percentile per-packet one-way delay: 65.361 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 432.67 Mbit/s
95th percentile per-packet one-way delay: 65.361 ms
Loss rate: 0.43%
```

Run 4: Report of TCP Vegas — Data Link

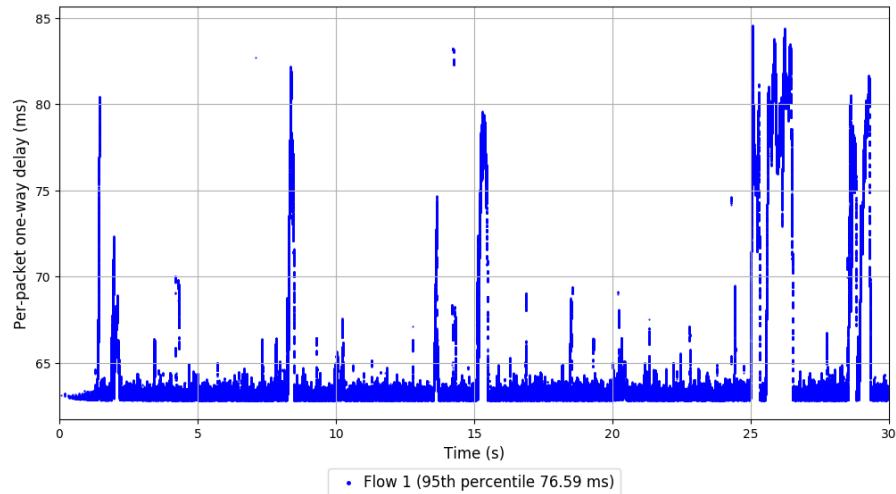
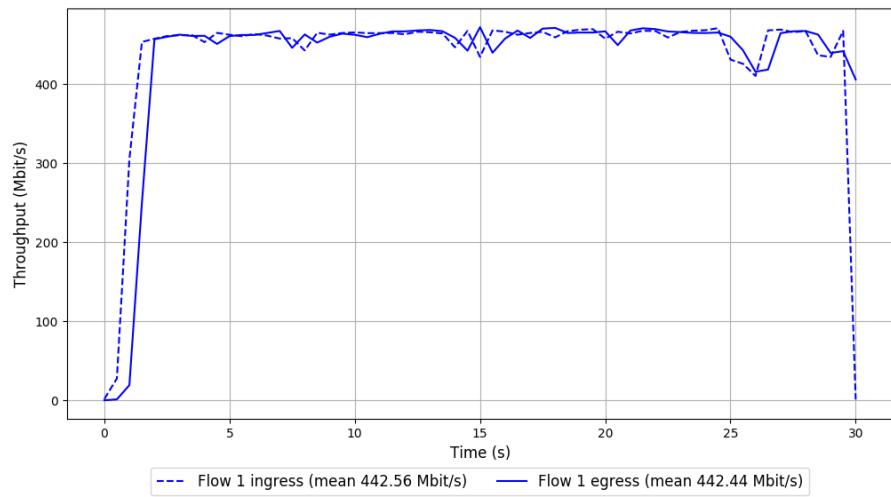


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-27 07:42:13
End at: 2019-03-27 07:42:43
Local clock offset: -0.088 ms
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2019-03-27 09:34:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 442.44 Mbit/s
95th percentile per-packet one-way delay: 76.595 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 442.44 Mbit/s
95th percentile per-packet one-way delay: 76.595 ms
Loss rate: 0.45%
```

Run 5: Report of TCP Vegas — Data Link

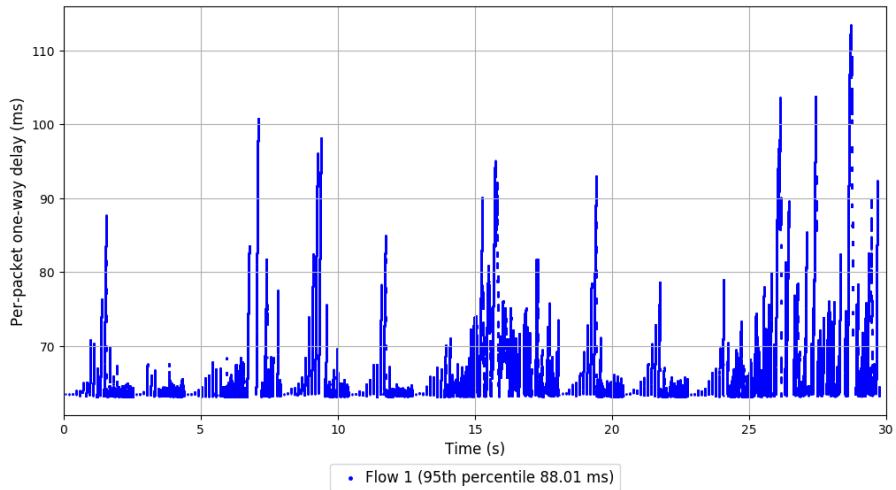
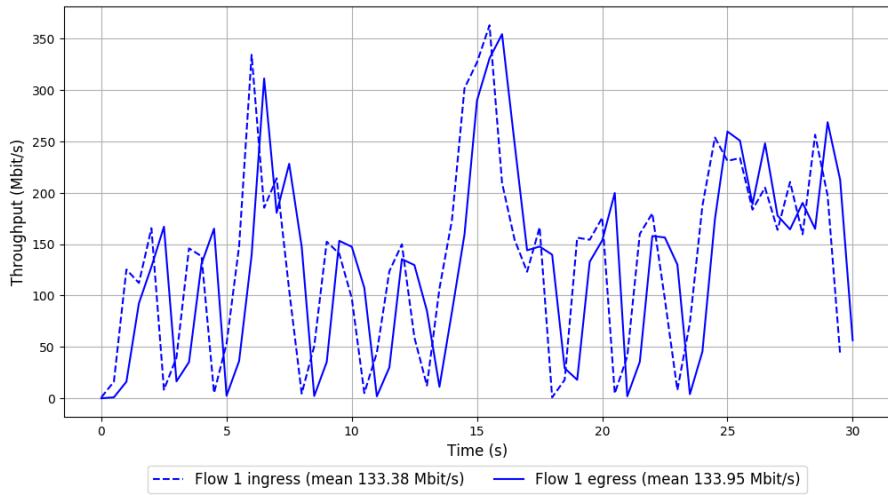


Run 1: Statistics of Verus

```
Start at: 2019-03-27 05:37:29
End at: 2019-03-27 05:37:59
Local clock offset: -0.032 ms
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2019-03-27 09:34:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.95 Mbit/s
95th percentile per-packet one-way delay: 88.012 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 133.95 Mbit/s
95th percentile per-packet one-way delay: 88.012 ms
Loss rate: 0.00%
```

Run 1: Report of Verus — Data Link

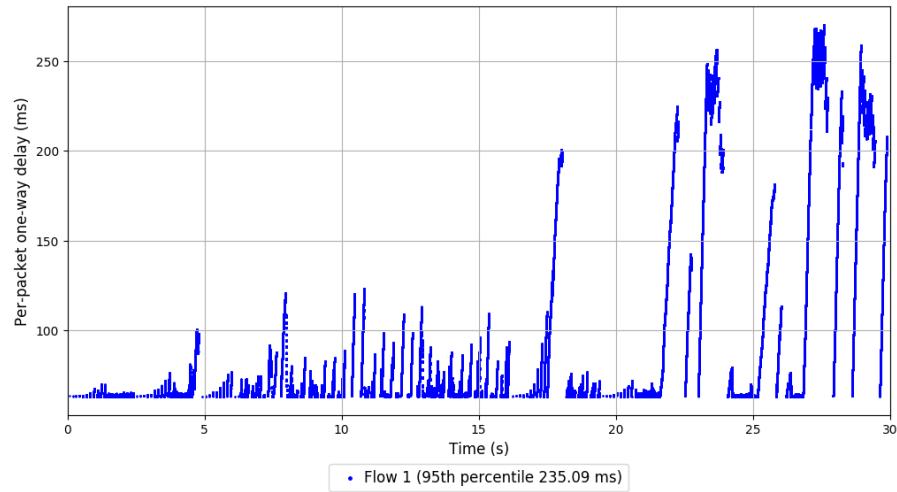
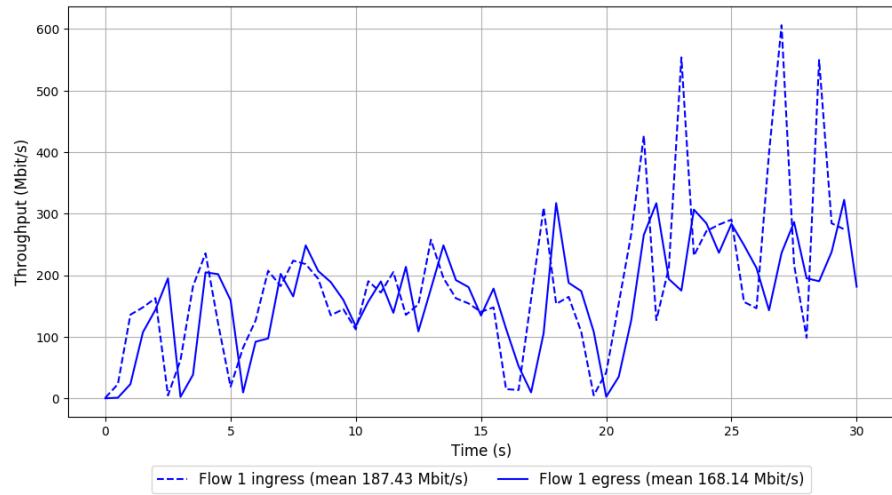


Run 2: Statistics of Verus

```
Start at: 2019-03-27 06:07:50
End at: 2019-03-27 06:08:20
Local clock offset: -0.091 ms
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2019-03-27 09:34:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.14 Mbit/s
95th percentile per-packet one-way delay: 235.085 ms
Loss rate: 10.08%
-- Flow 1:
Average throughput: 168.14 Mbit/s
95th percentile per-packet one-way delay: 235.085 ms
Loss rate: 10.08%
```

Run 2: Report of Verus — Data Link

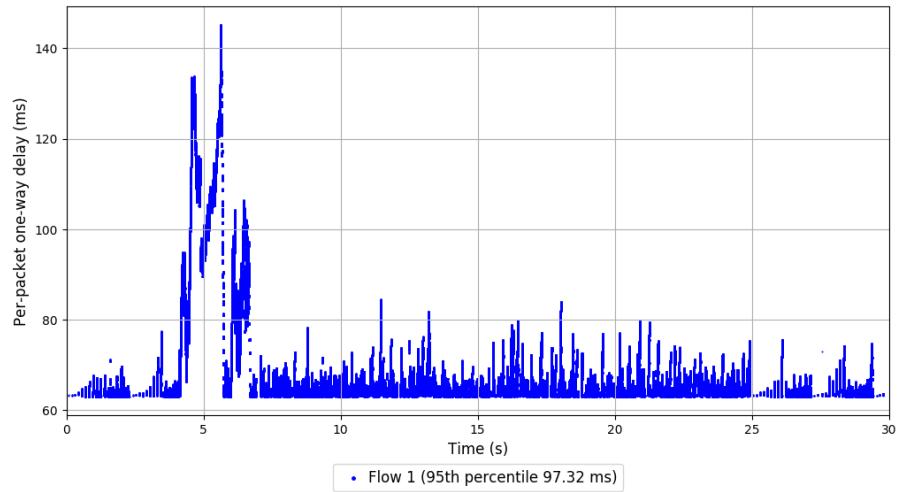
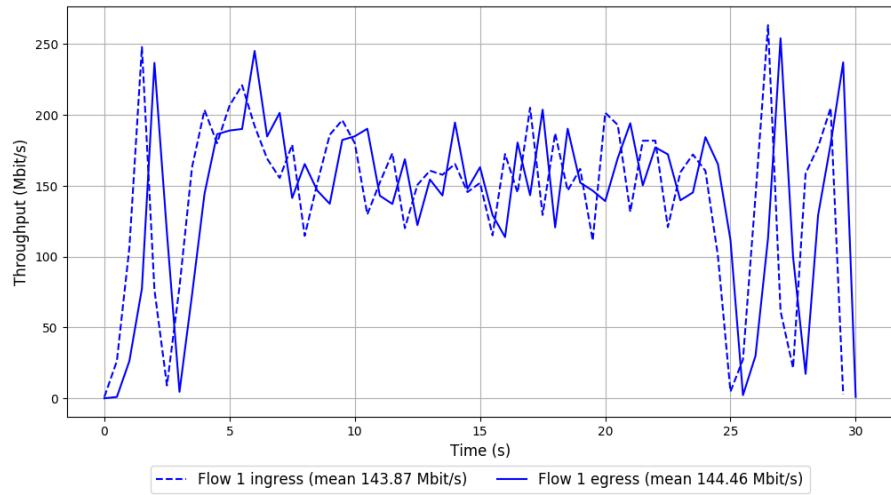


Run 3: Statistics of Verus

```
Start at: 2019-03-27 06:38:21
End at: 2019-03-27 06:38:51
Local clock offset: -0.105 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-03-27 09:34:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.46 Mbit/s
95th percentile per-packet one-way delay: 97.323 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 144.46 Mbit/s
95th percentile per-packet one-way delay: 97.323 ms
Loss rate: 0.02%
```

Run 3: Report of Verus — Data Link

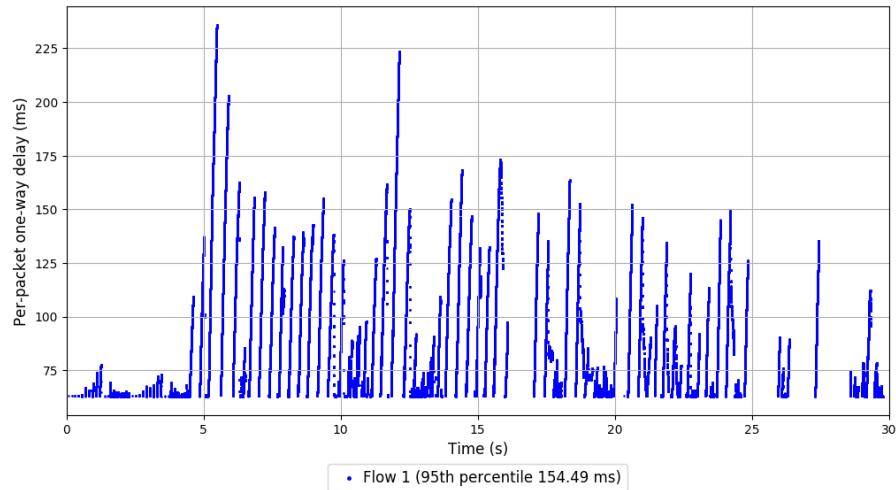
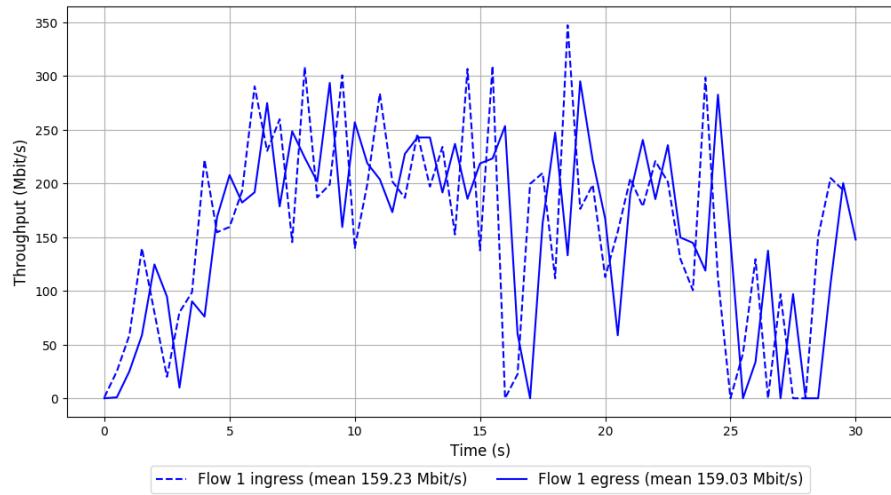


Run 4: Statistics of Verus

```
Start at: 2019-03-27 07:08:44
End at: 2019-03-27 07:09:14
Local clock offset: -0.051 ms
Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2019-03-27 09:34:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.03 Mbit/s
95th percentile per-packet one-way delay: 154.493 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 159.03 Mbit/s
95th percentile per-packet one-way delay: 154.493 ms
Loss rate: 0.99%
```

Run 4: Report of Verus — Data Link

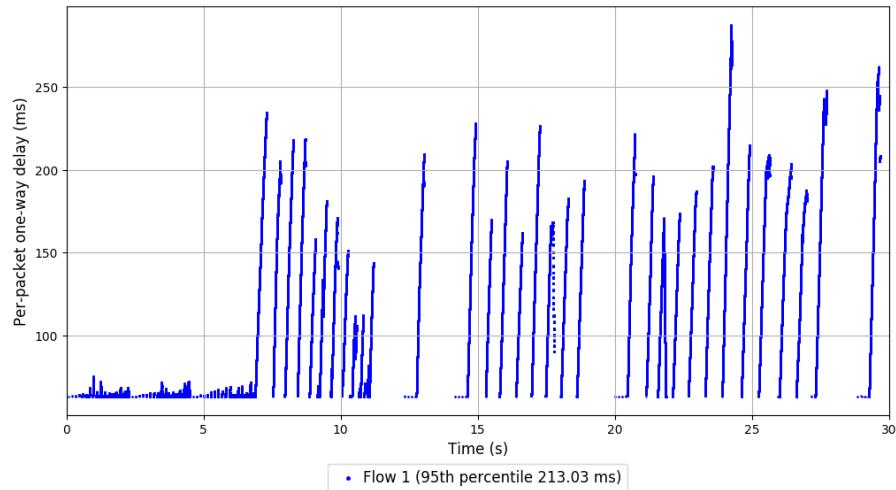
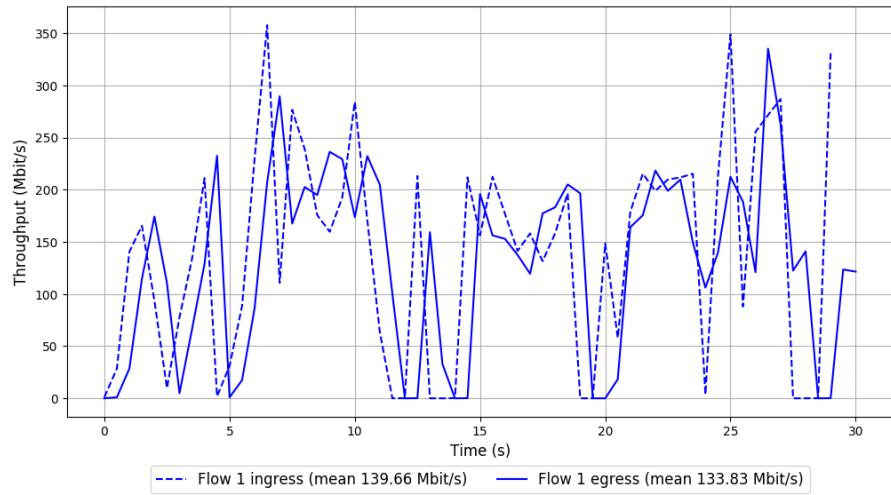


Run 5: Statistics of Verus

```
Start at: 2019-03-27 07:39:08
End at: 2019-03-27 07:39:38
Local clock offset: -0.085 ms
Remote clock offset: -0.251 ms

# Below is generated by plot.py at 2019-03-27 09:35:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.83 Mbit/s
95th percentile per-packet one-way delay: 213.027 ms
Loss rate: 3.71%
-- Flow 1:
Average throughput: 133.83 Mbit/s
95th percentile per-packet one-way delay: 213.027 ms
Loss rate: 3.71%
```

Run 5: Report of Verus — Data Link

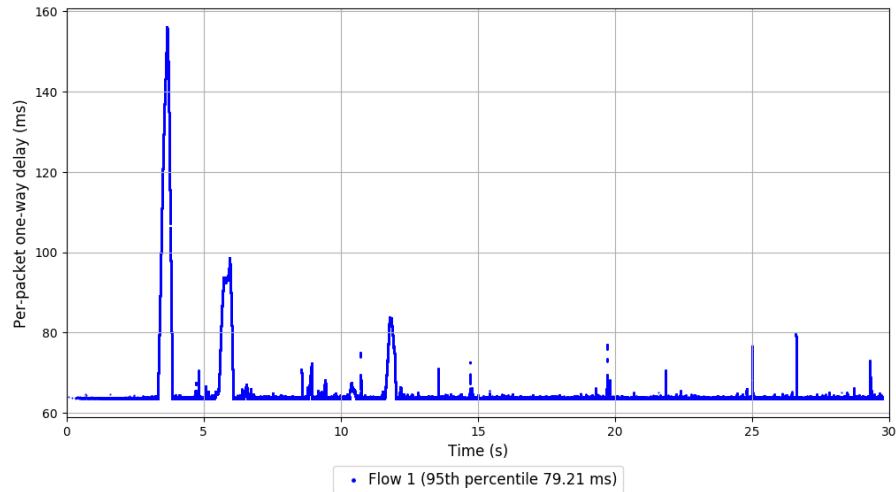
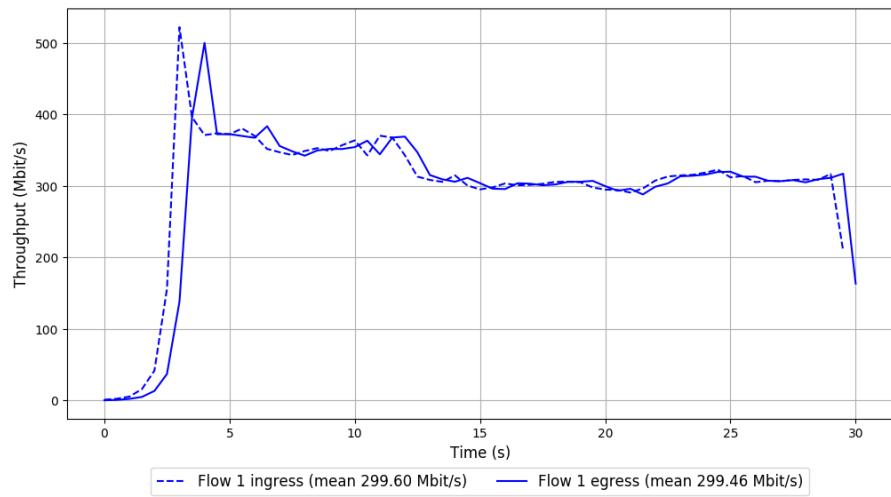


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-03-27 05:24:33
End at: 2019-03-27 05:25:03
Local clock offset: -0.089 ms
Remote clock offset: -1.019 ms

# Below is generated by plot.py at 2019-03-27 09:36:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 299.46 Mbit/s
95th percentile per-packet one-way delay: 79.209 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 299.46 Mbit/s
95th percentile per-packet one-way delay: 79.209 ms
Loss rate: 0.47%
```

Run 1: Report of PCC-Vivace — Data Link

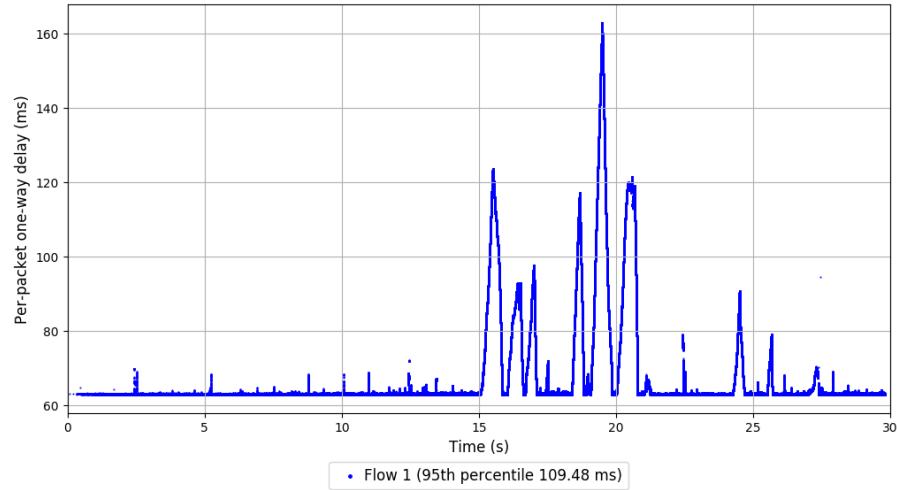
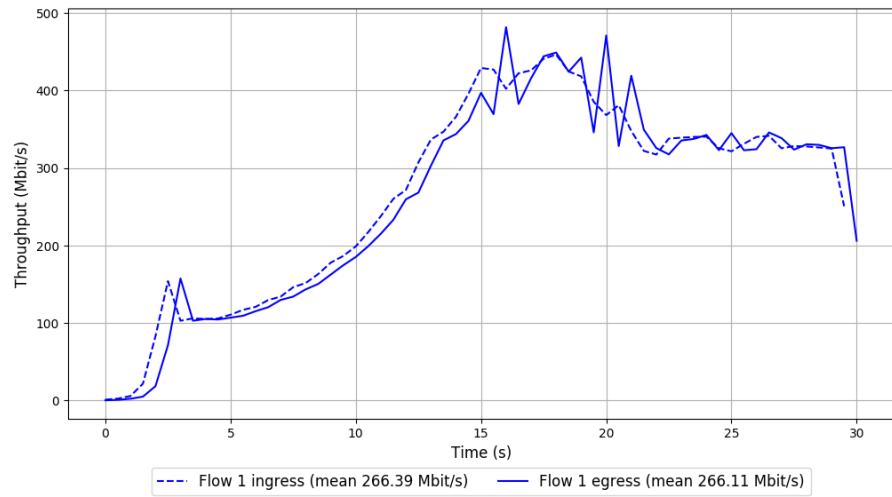


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-27 05:54:55
End at: 2019-03-27 05:55:25
Local clock offset: -0.089 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-03-27 09:36:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 266.11 Mbit/s
95th percentile per-packet one-way delay: 109.478 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 266.11 Mbit/s
95th percentile per-packet one-way delay: 109.478 ms
Loss rate: 0.53%
```

Run 2: Report of PCC-Vivace — Data Link

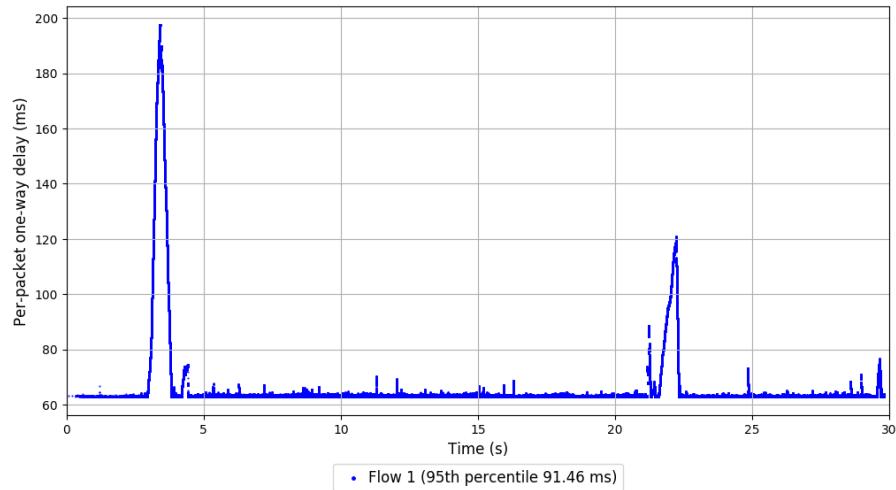
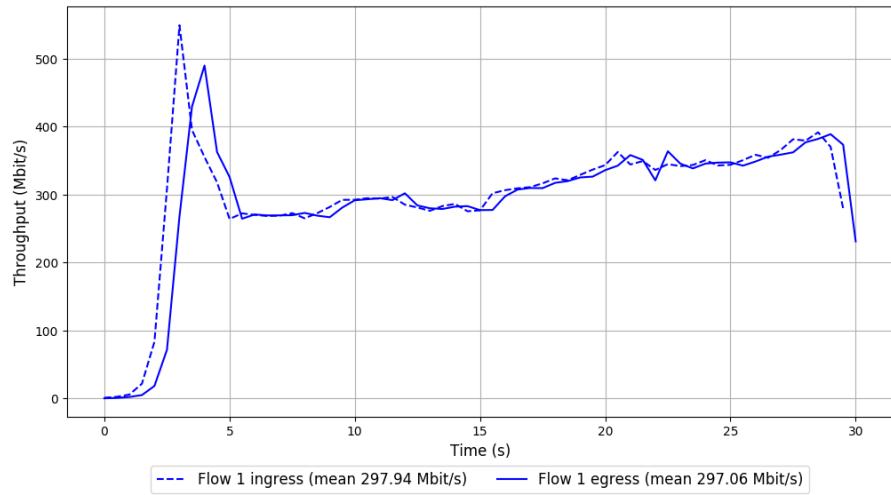


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-27 06:25:31
End at: 2019-03-27 06:26:01
Local clock offset: -0.086 ms
Remote clock offset: 0.159 ms

# Below is generated by plot.py at 2019-03-27 09:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.06 Mbit/s
95th percentile per-packet one-way delay: 91.460 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 297.06 Mbit/s
95th percentile per-packet one-way delay: 91.460 ms
Loss rate: 0.72%
```

Run 3: Report of PCC-Vivace — Data Link

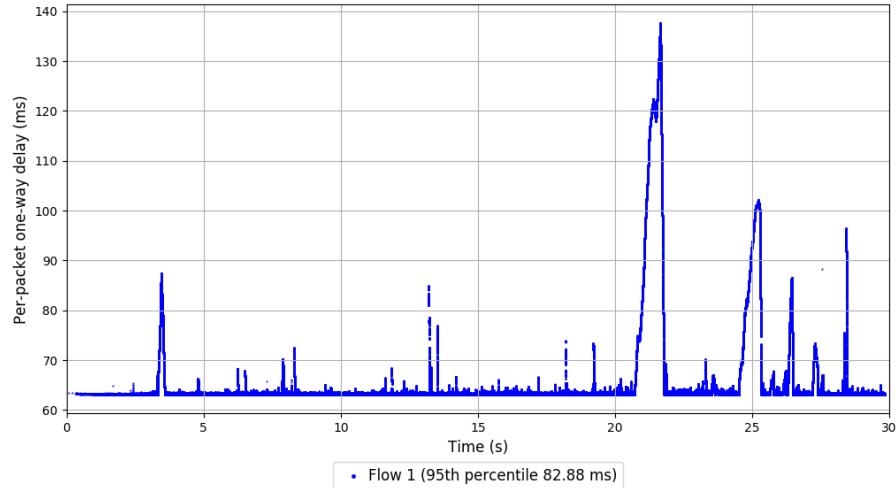
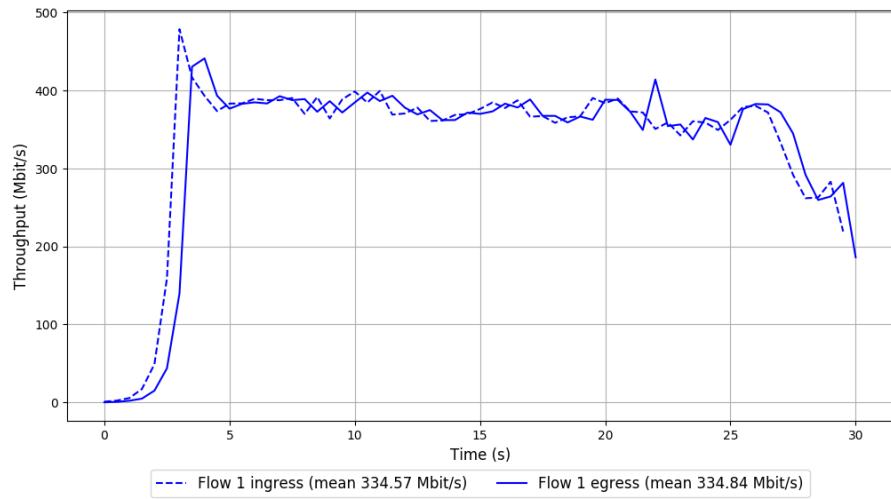


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-27 06:55:44
End at: 2019-03-27 06:56:14
Local clock offset: -0.043 ms
Remote clock offset: -0.211 ms

# Below is generated by plot.py at 2019-03-27 09:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 334.84 Mbit/s
95th percentile per-packet one-way delay: 82.876 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 334.84 Mbit/s
95th percentile per-packet one-way delay: 82.876 ms
Loss rate: 0.34%
```

Run 4: Report of PCC-Vivace — Data Link

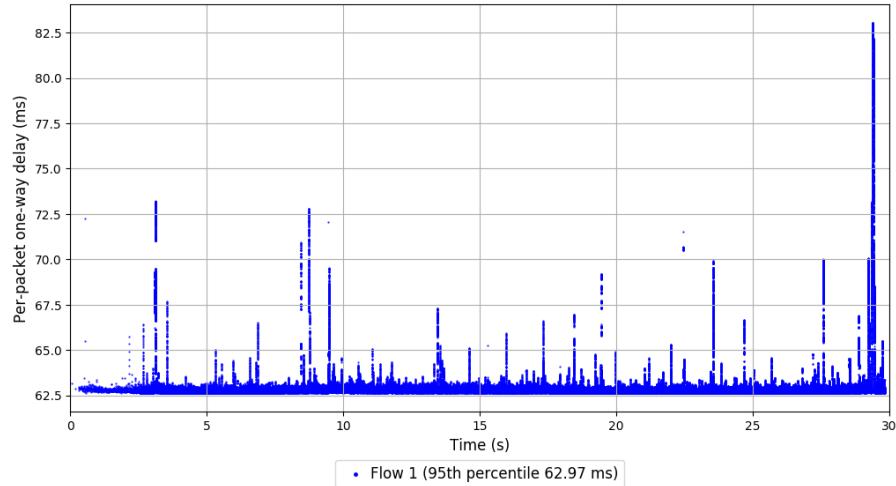
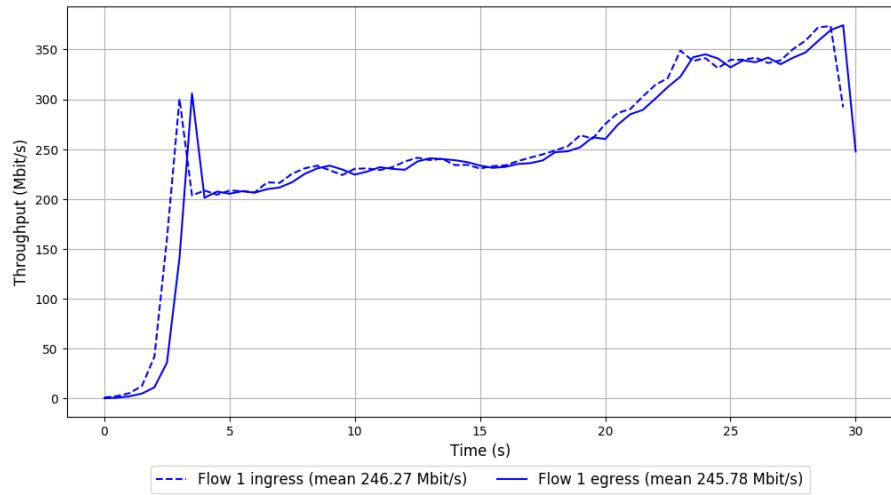


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-27 07:26:19
End at: 2019-03-27 07:26:49
Local clock offset: -0.041 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-03-27 09:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 245.78 Mbit/s
95th percentile per-packet one-way delay: 62.968 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 245.78 Mbit/s
95th percentile per-packet one-way delay: 62.968 ms
Loss rate: 0.62%
```

Run 5: Report of PCC-Vivace — Data Link

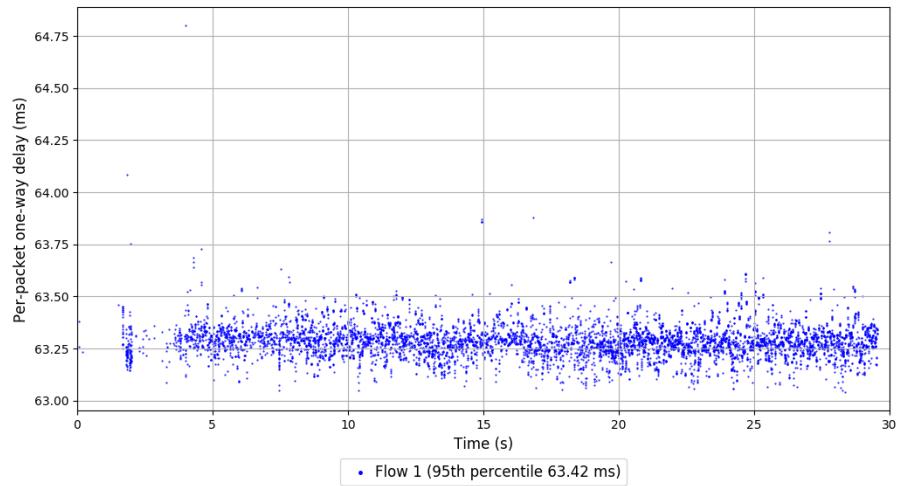
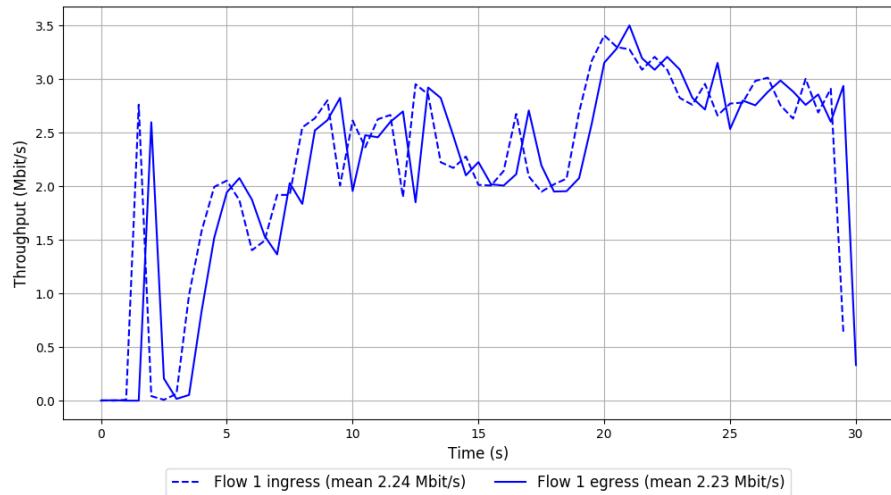


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2019-03-27 05:29:02
End at: 2019-03-27 05:29:32
Local clock offset: -0.06 ms
Remote clock offset: -0.226 ms

# Below is generated by plot.py at 2019-03-27 09:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 63.420 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 63.420 ms
Loss rate: 0.55%
```

Run 1: Report of WebRTC media — Data Link

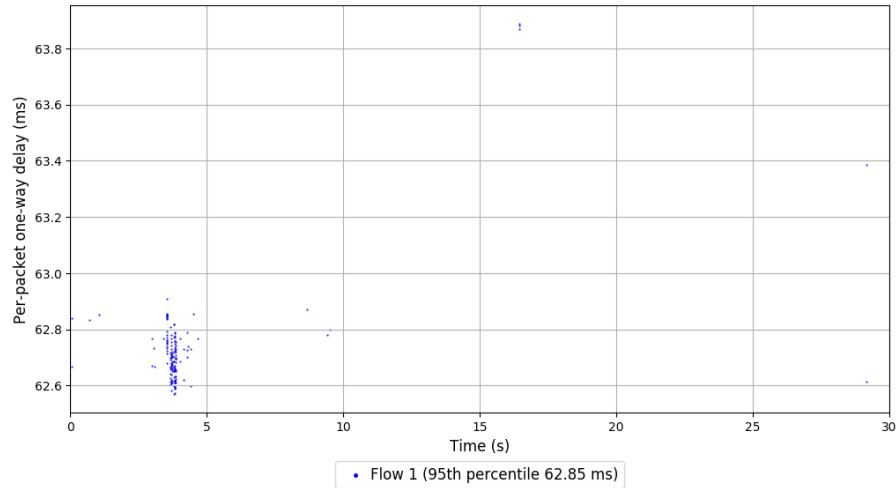
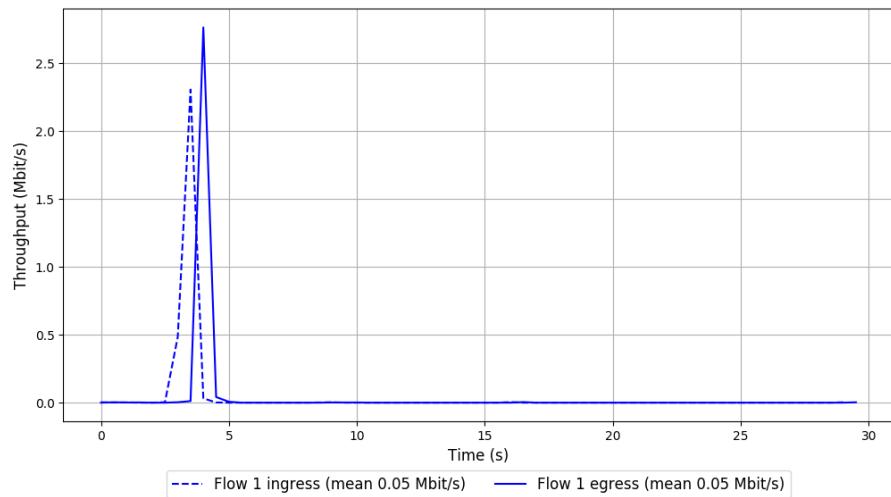


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-27 05:59:24
End at: 2019-03-27 05:59:54
Local clock offset: -0.126 ms
Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2019-03-27 09:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.853 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.853 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

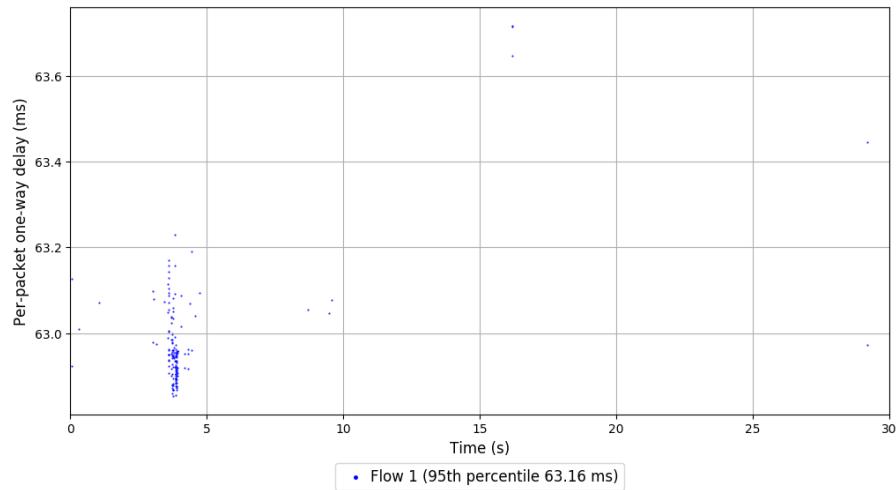
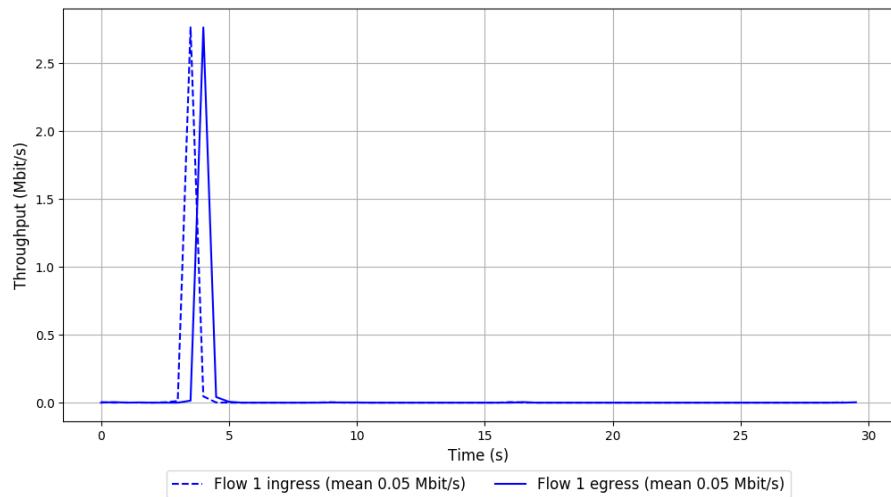


Run 3: Statistics of WebRTC media

```
Start at: 2019-03-27 06:30:01
End at: 2019-03-27 06:30:31
Local clock offset: -0.119 ms
Remote clock offset: 0.216 ms

# Below is generated by plot.py at 2019-03-27 09:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.157 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.157 ms
Loss rate: 0.00%
```

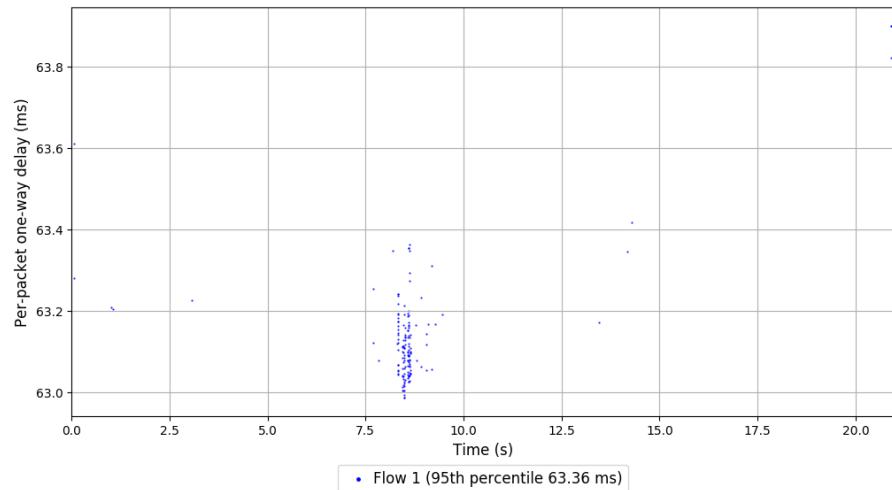
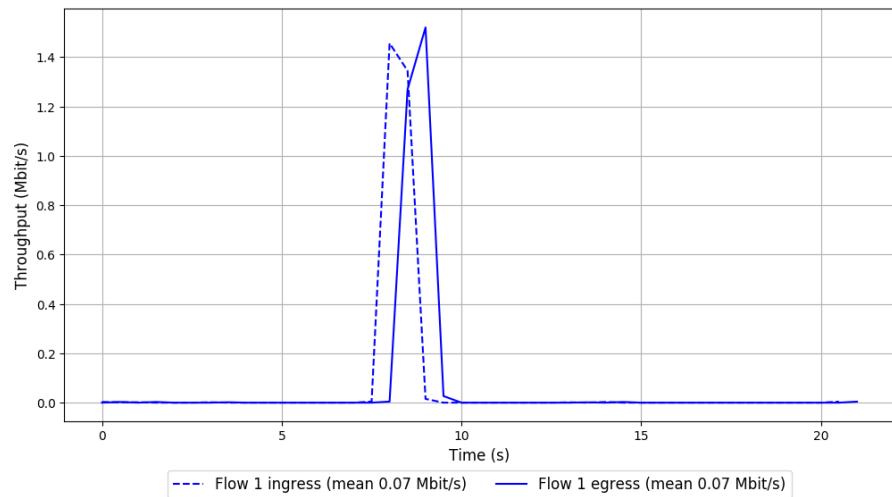
Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-03-27 07:00:17
End at: 2019-03-27 07:00:47
Local clock offset: -0.017 ms
Remote clock offset: -0.097 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-03-27 07:30:44
End at: 2019-03-27 07:31:14
Local clock offset: -0.049 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-03-27 09:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.042 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.042 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

