

Pantheon Report

Generated at 2019-06-27 05:44:46 (UTC).
Data path: AWS California 1 on `ens5` (*local*) → Stanford on `eno1` (*remote*).
Repeated the test of 22 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

System info:

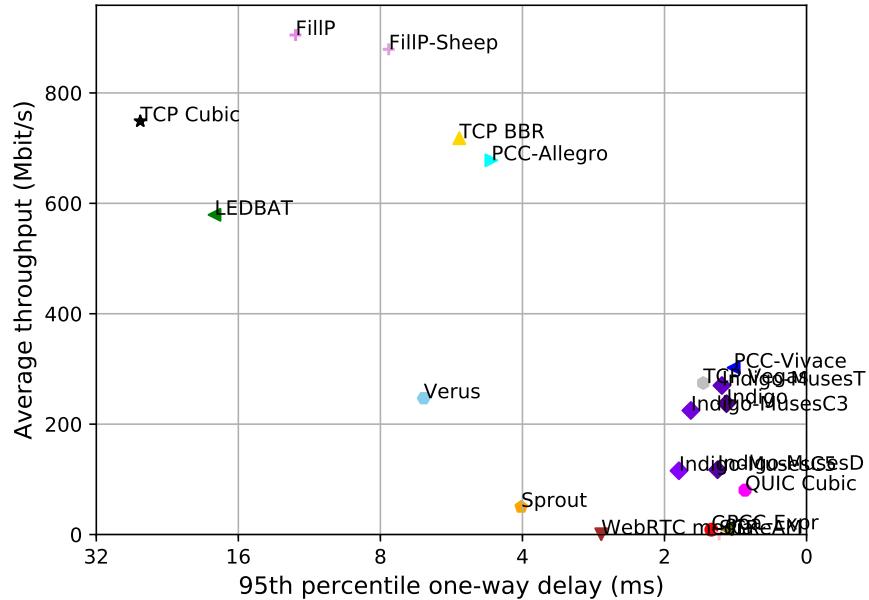
```
Linux 4.15.0-1039-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

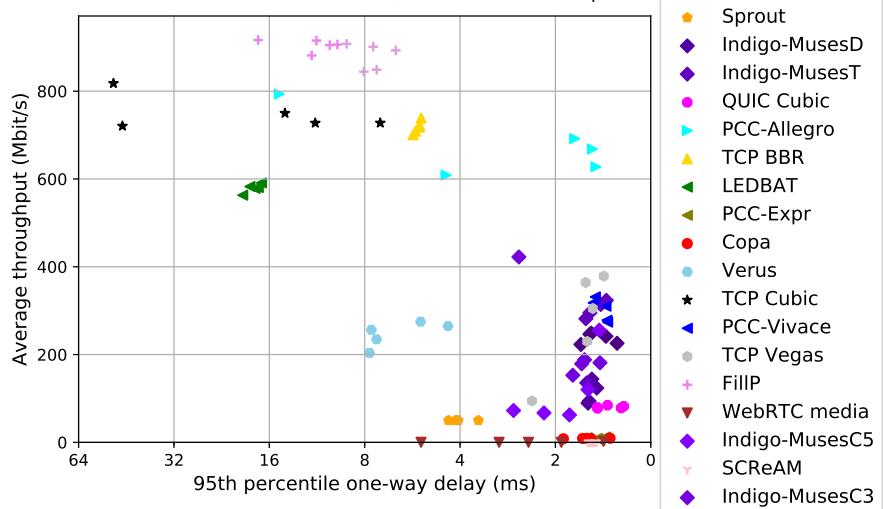
```
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d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

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

test from AWS California 1 to Stanford, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS California 1 to Stanford, 5 runs of 30s each per scheme



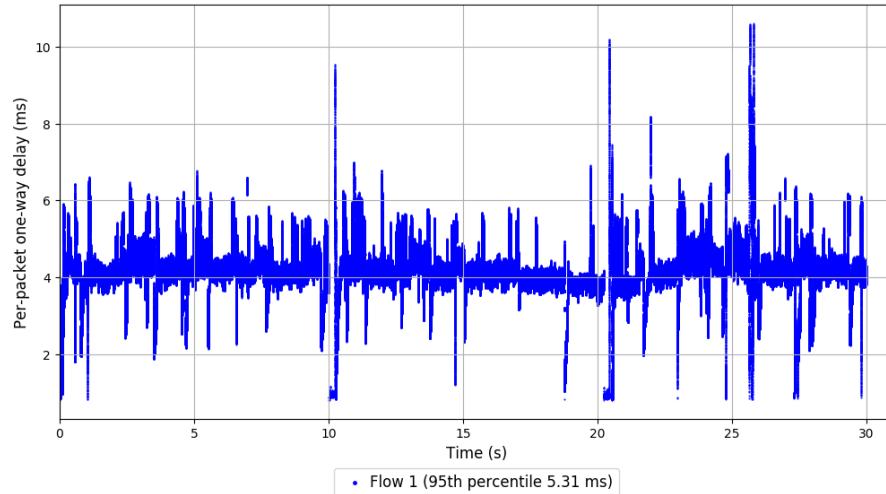
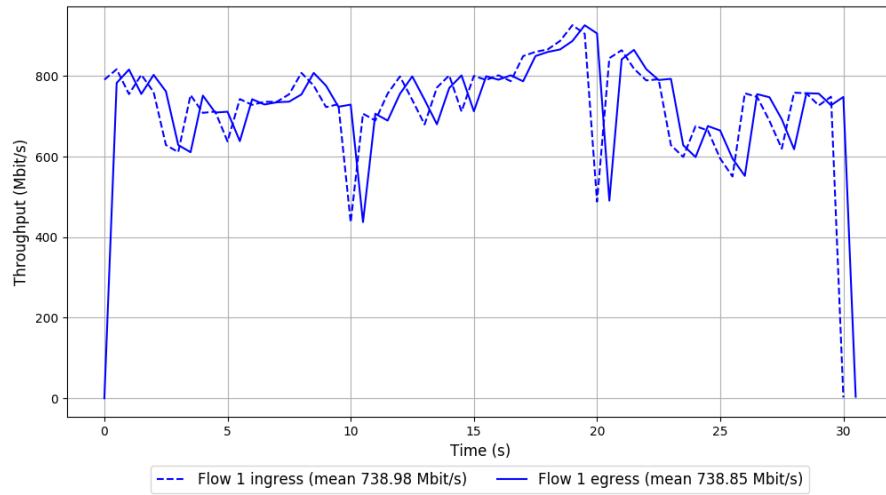
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	717.92	5.44	0.01
Copa	5	8.78	1.34	49.37
TCP Cubic	5	748.72	25.82	0.07
FillP	5	904.93	12.11	3.19
FillP-Sheep	5	879.09	7.68	2.81
Indigo	5	237.12	1.13	0.00
Indigo-MusesC3	5	224.75	1.63	0.01
Indigo-MusesC5	5	115.54	1.80	0.02
Indigo-MusesD	5	117.43	1.25	0.00
Indigo-MusesT	5	270.00	1.19	0.00
LEDBAT	5	579.22	17.98	0.04
Muses_DecisionTree	0	N/A	N/A	N/A
PCC-Allegro	5	678.00	4.66	0.13
PCC-Expr	4	9.47	1.13	20.54
QUIC Cubic	5	80.43	0.87	0.00
SCReAM	5	0.22	1.23	0.00
Sprout	5	50.05	4.03	0.01
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	274.44	1.45	0.00
Verus	5	246.96	6.48	0.36
PCC-Vivace	5	302.31	1.03	0.00
WebRTC media	5	0.48	2.72	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-06-27 02:32:11
End at: 2019-06-27 02:32:41
Local clock offset: -0.724 ms
Remote clock offset: -3.29 ms

# Below is generated by plot.py at 2019-06-27 05:02:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 738.85 Mbit/s
95th percentile per-packet one-way delay: 5.307 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 738.85 Mbit/s
95th percentile per-packet one-way delay: 5.307 ms
Loss rate: 0.02%
```

Run 1: Report of TCP BBR — Data Link

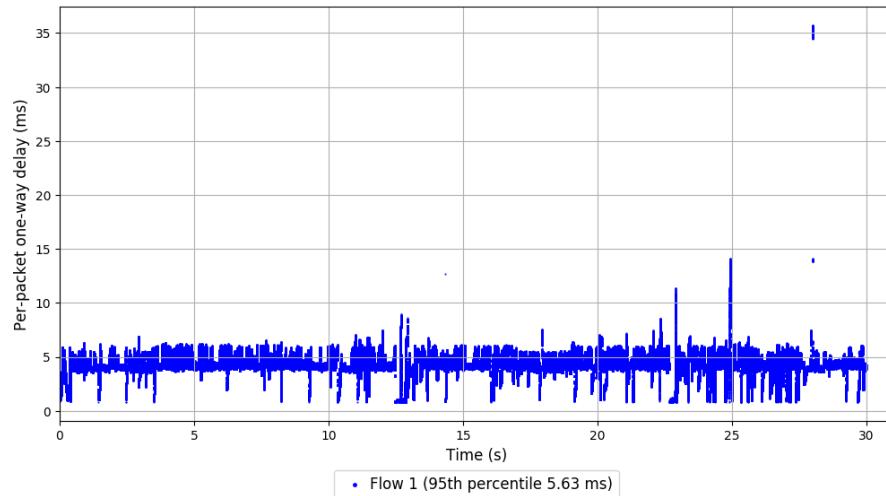
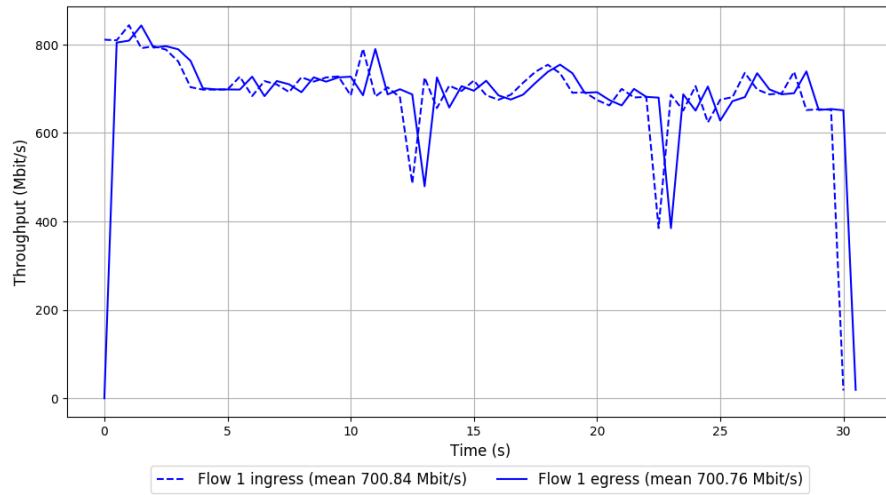


Run 2: Statistics of TCP BBR

```
Start at: 2019-06-27 03:02:40
End at: 2019-06-27 03:03:10
Local clock offset: 2.639 ms
Remote clock offset: 0.42 ms

# Below is generated by plot.py at 2019-06-27 05:02:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 700.76 Mbit/s
95th percentile per-packet one-way delay: 5.633 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 700.76 Mbit/s
95th percentile per-packet one-way delay: 5.633 ms
Loss rate: 0.01%
```

Run 2: Report of TCP BBR — Data Link

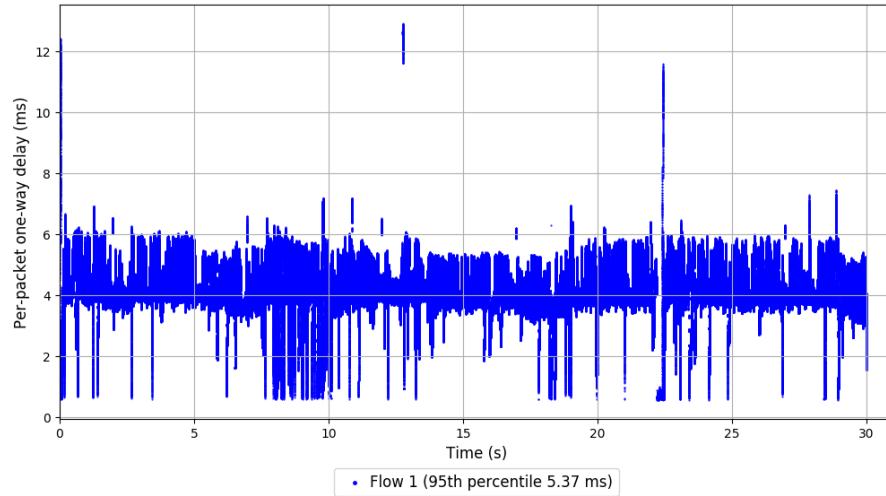
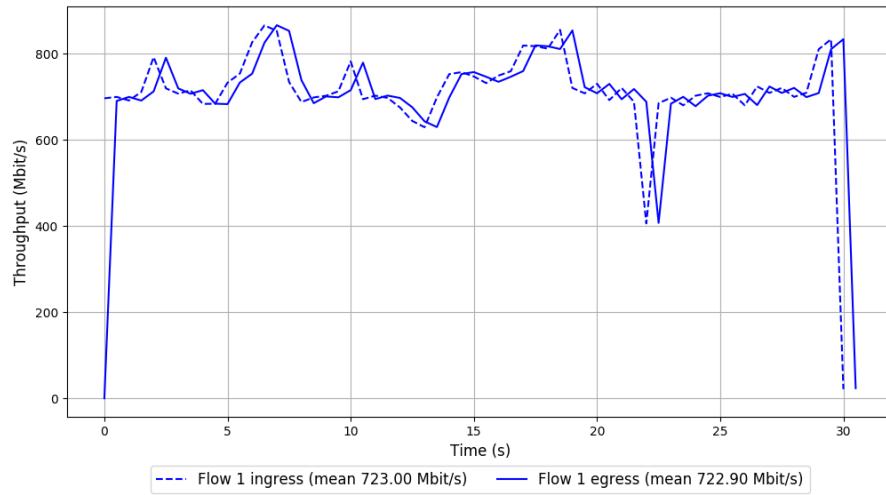


Run 3: Statistics of TCP BBR

```
Start at: 2019-06-27 03:32:57
End at: 2019-06-27 03:33:27
Local clock offset: -2.313 ms
Remote clock offset: -3.123 ms

# Below is generated by plot.py at 2019-06-27 05:02:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 722.90 Mbit/s
95th percentile per-packet one-way delay: 5.370 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 722.90 Mbit/s
95th percentile per-packet one-way delay: 5.370 ms
Loss rate: 0.01%
```

Run 3: Report of TCP BBR — Data Link

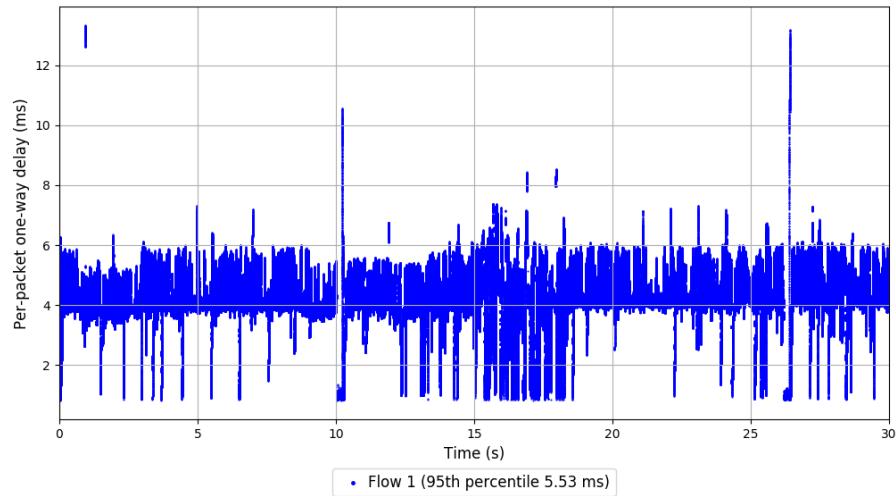
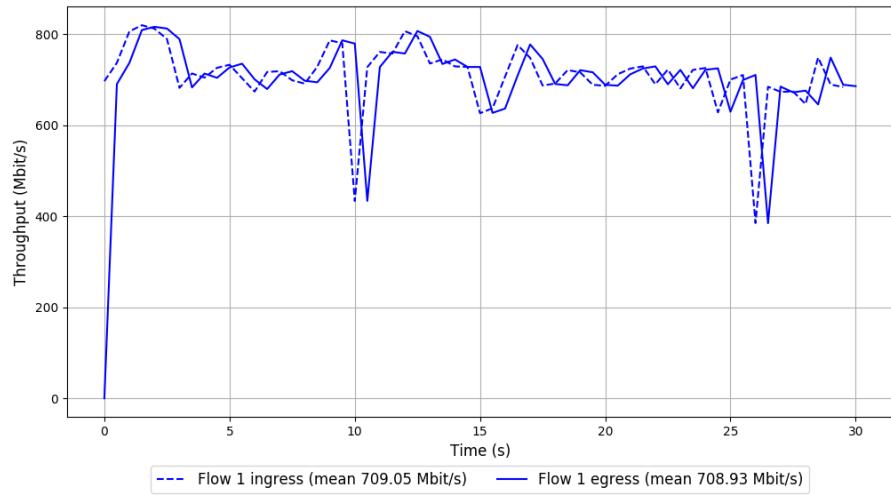


Run 4: Statistics of TCP BBR

```
Start at: 2019-06-27 04:03:19
End at: 2019-06-27 04:03:49
Local clock offset: -0.69 ms
Remote clock offset: -3.257 ms

# Below is generated by plot.py at 2019-06-27 05:02:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 708.93 Mbit/s
95th percentile per-packet one-way delay: 5.527 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 708.93 Mbit/s
95th percentile per-packet one-way delay: 5.527 ms
Loss rate: 0.02%
```

Run 4: Report of TCP BBR — Data Link

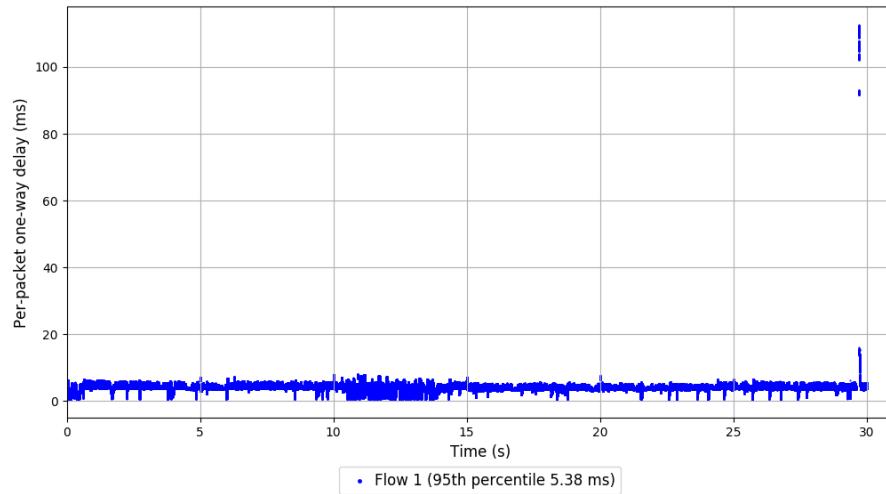
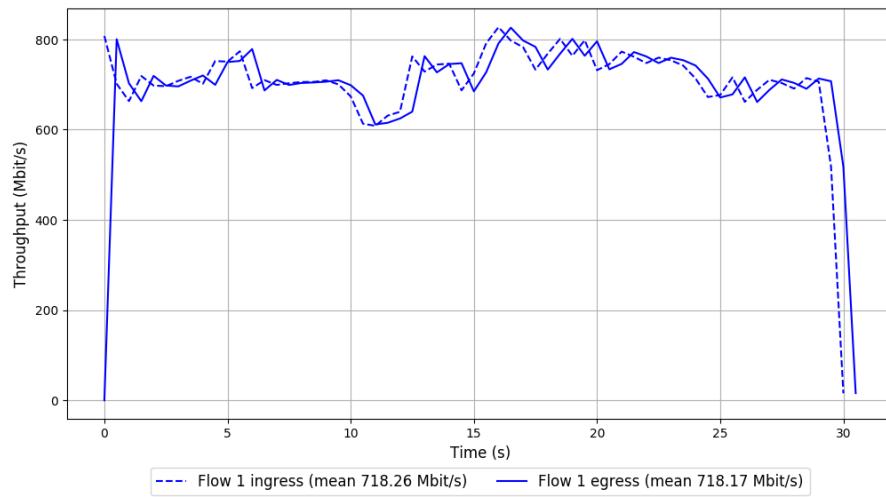


Run 5: Statistics of TCP BBR

```
Start at: 2019-06-27 04:33:54
End at: 2019-06-27 04:34:24
Local clock offset: -2.953 ms
Remote clock offset: -0.602 ms

# Below is generated by plot.py at 2019-06-27 05:02:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 718.17 Mbit/s
95th percentile per-packet one-way delay: 5.375 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 718.17 Mbit/s
95th percentile per-packet one-way delay: 5.375 ms
Loss rate: 0.01%
```

Run 5: Report of TCP BBR — Data Link

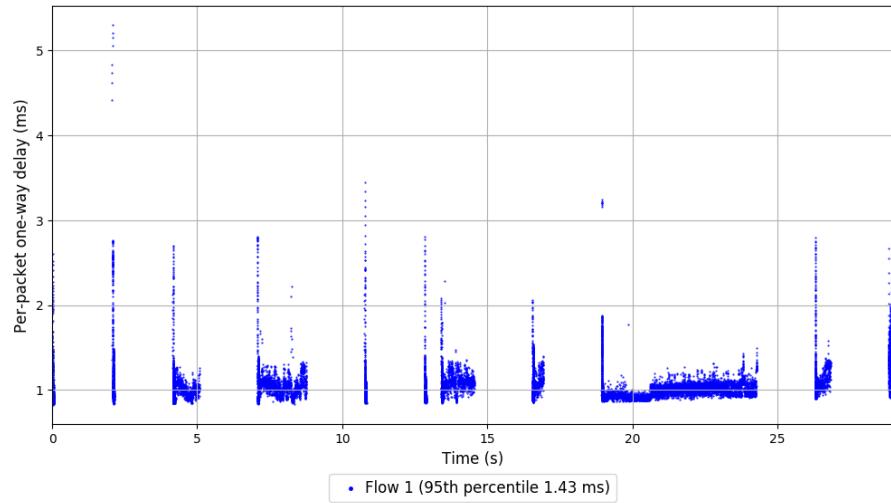
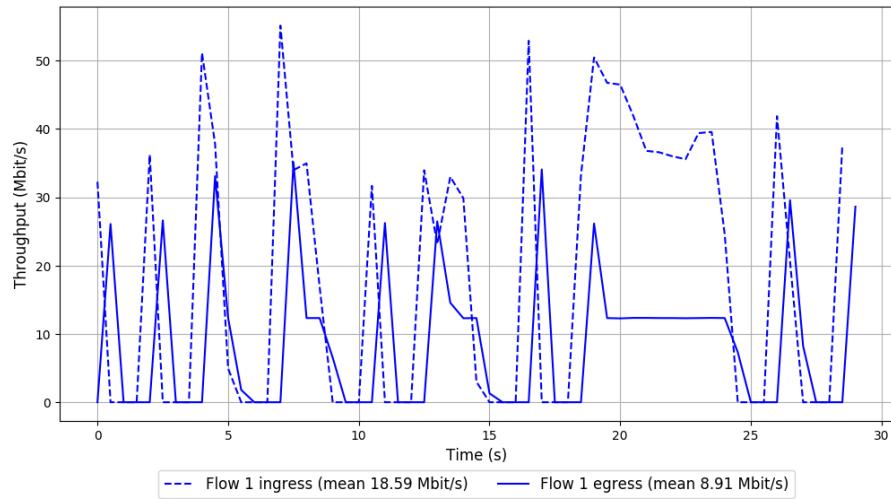


Run 1: Statistics of Copa

```
Start at: 2019-06-27 02:17:46
End at: 2019-06-27 02:18:16
Local clock offset: -1.603 ms
Remote clock offset: -2.174 ms

# Below is generated by plot.py at 2019-06-27 05:02:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 1.429 ms
Loss rate: 52.10%
-- Flow 1:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 1.429 ms
Loss rate: 52.10%
```

Run 1: Report of Copa — Data Link

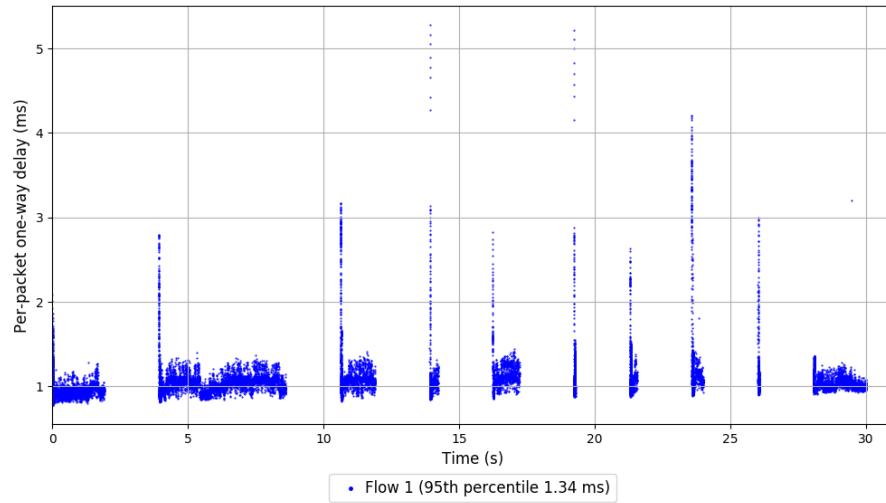
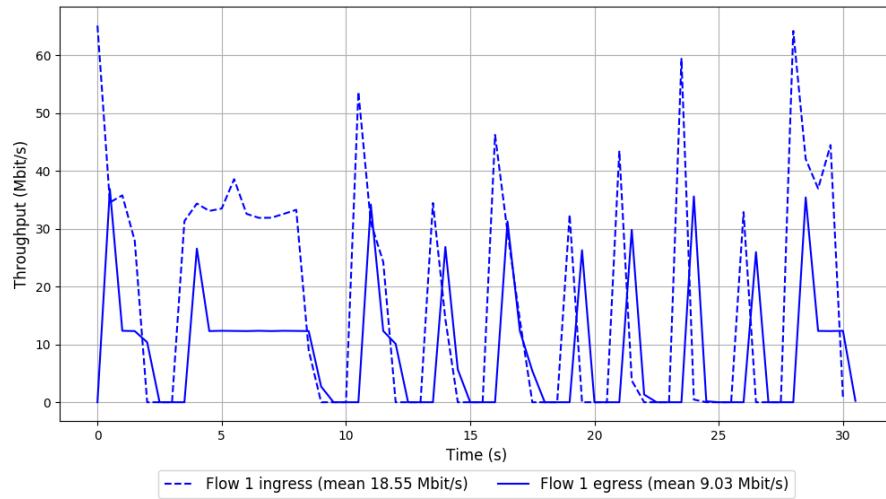


Run 2: Statistics of Copa

```
Start at: 2019-06-27 02:48:09
End at: 2019-06-27 02:48:39
Local clock offset: -0.988 ms
Remote clock offset: -1.42 ms

# Below is generated by plot.py at 2019-06-27 05:02:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.03 Mbit/s
95th percentile per-packet one-way delay: 1.338 ms
Loss rate: 51.35%
-- Flow 1:
Average throughput: 9.03 Mbit/s
95th percentile per-packet one-way delay: 1.338 ms
Loss rate: 51.35%
```

Run 2: Report of Copa — Data Link

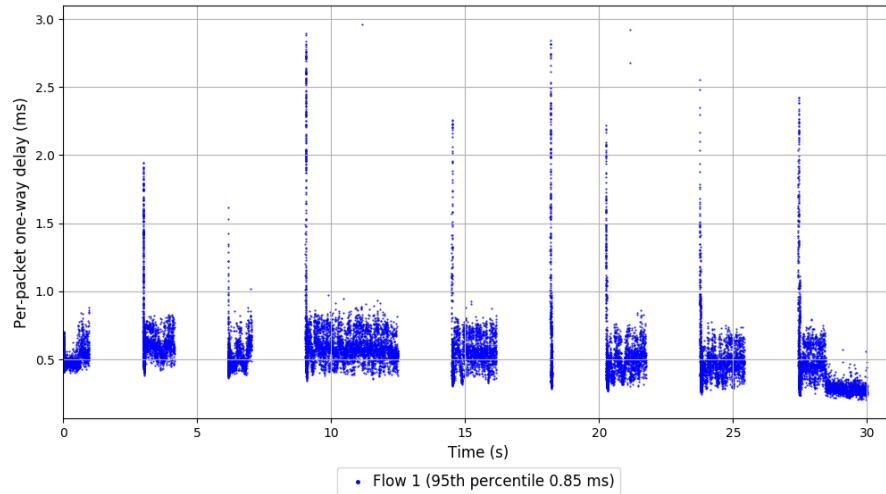
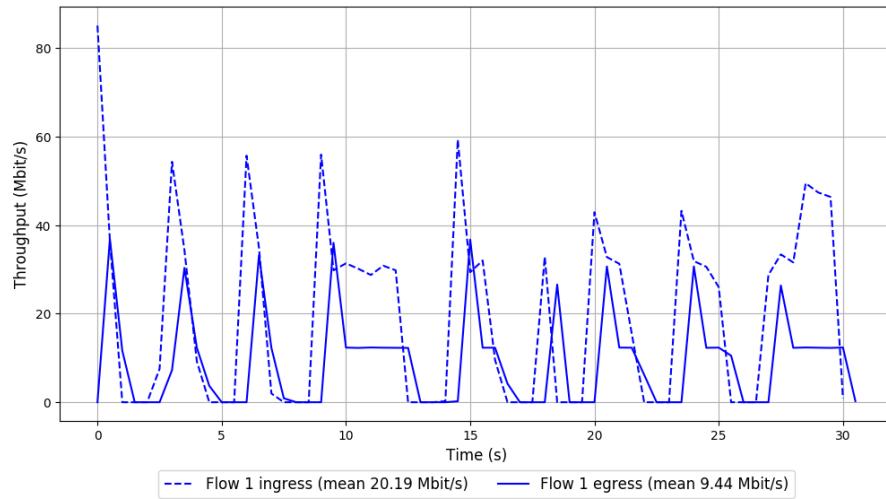


Run 3: Statistics of Copa

```
Start at: 2019-06-27 03:18:36
End at: 2019-06-27 03:19:06
Local clock offset: 3.803 ms
Remote clock offset: -0.284 ms

# Below is generated by plot.py at 2019-06-27 05:02:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.44 Mbit/s
95th percentile per-packet one-way delay: 0.854 ms
Loss rate: 53.26%
-- Flow 1:
Average throughput: 9.44 Mbit/s
95th percentile per-packet one-way delay: 0.854 ms
Loss rate: 53.26%
```

Run 3: Report of Copa — Data Link

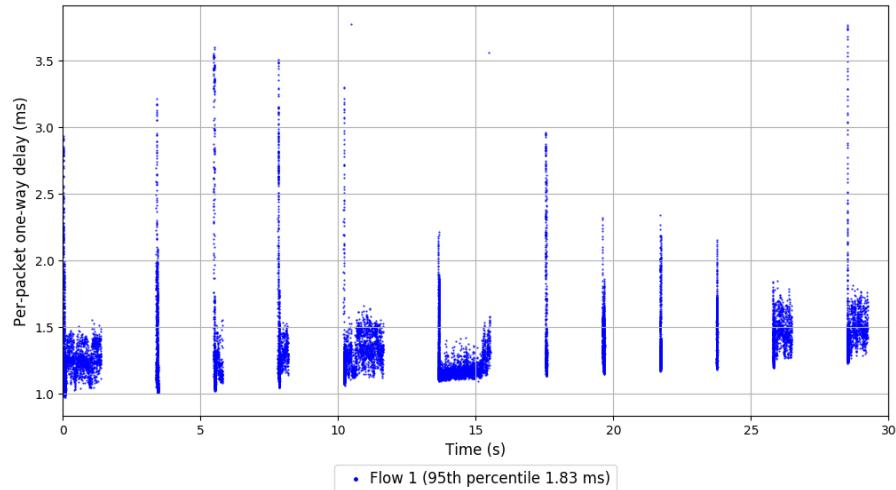
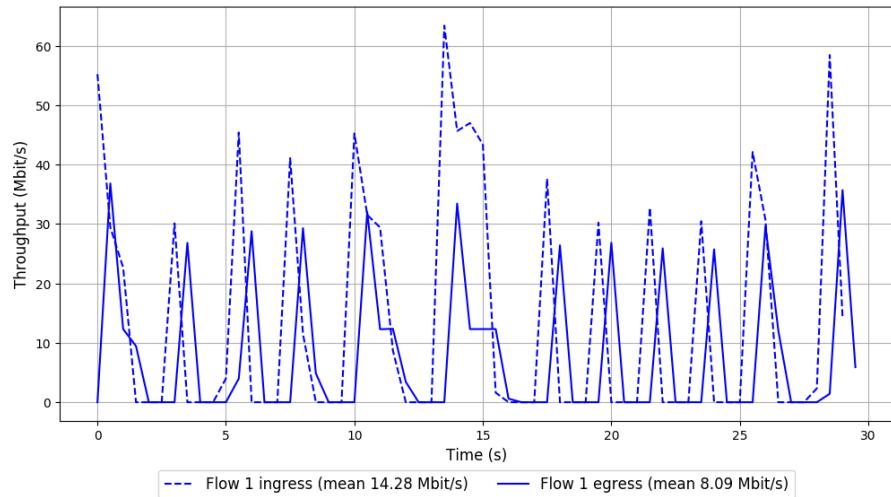


Run 4: Statistics of Copa

```
Start at: 2019-06-27 03:48:52
End at: 2019-06-27 03:49:22
Local clock offset: -4.217 ms
Remote clock offset: -4.238 ms

# Below is generated by plot.py at 2019-06-27 05:02:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 1.833 ms
Loss rate: 43.30%
-- Flow 1:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 1.833 ms
Loss rate: 43.30%
```

Run 4: Report of Copa — Data Link

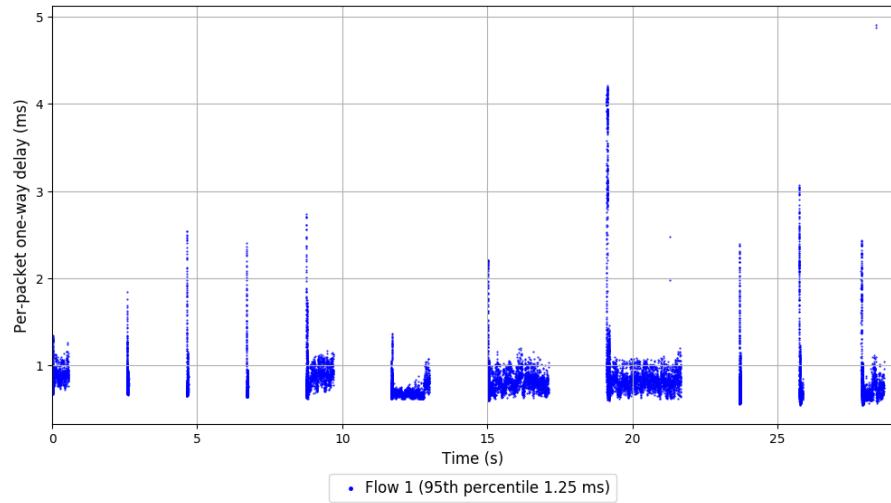
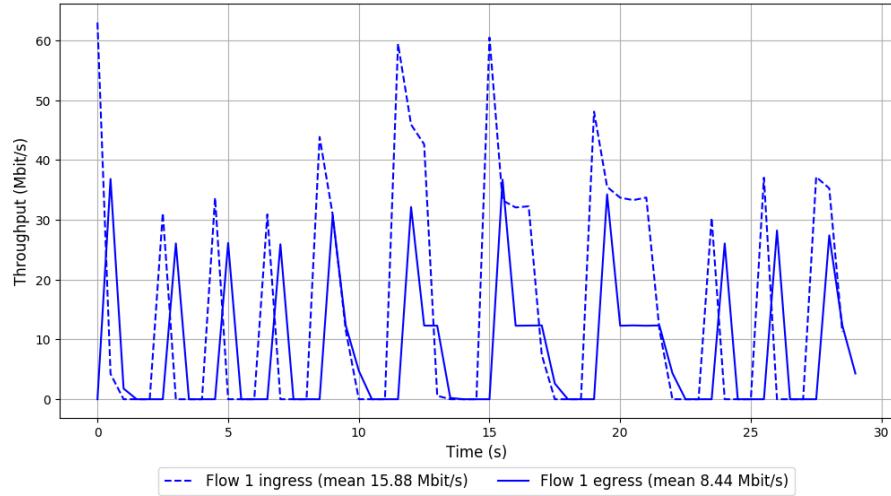


Run 5: Statistics of Copa

```
Start at: 2019-06-27 04:19:24
End at: 2019-06-27 04:19:54
Local clock offset: -0.415 ms
Remote clock offset: -3.326 ms

# Below is generated by plot.py at 2019-06-27 05:02:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 1.250 ms
Loss rate: 46.83%
-- Flow 1:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 1.250 ms
Loss rate: 46.83%
```

Run 5: Report of Copa — Data Link

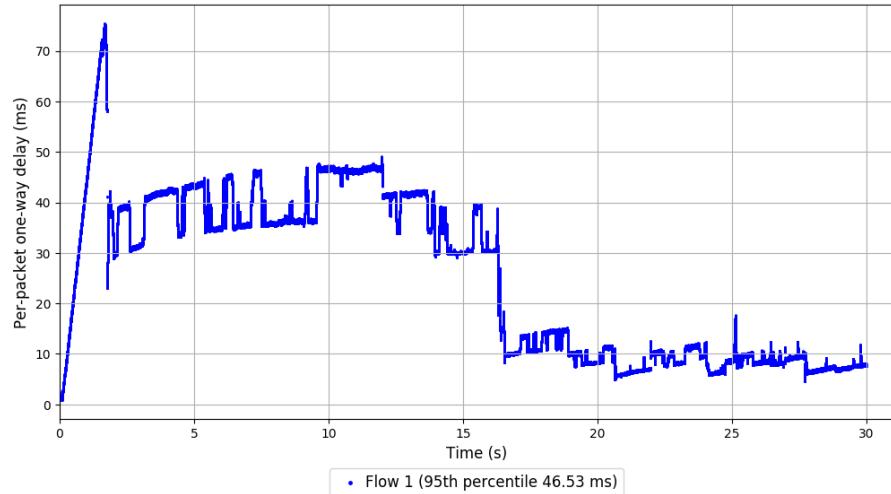
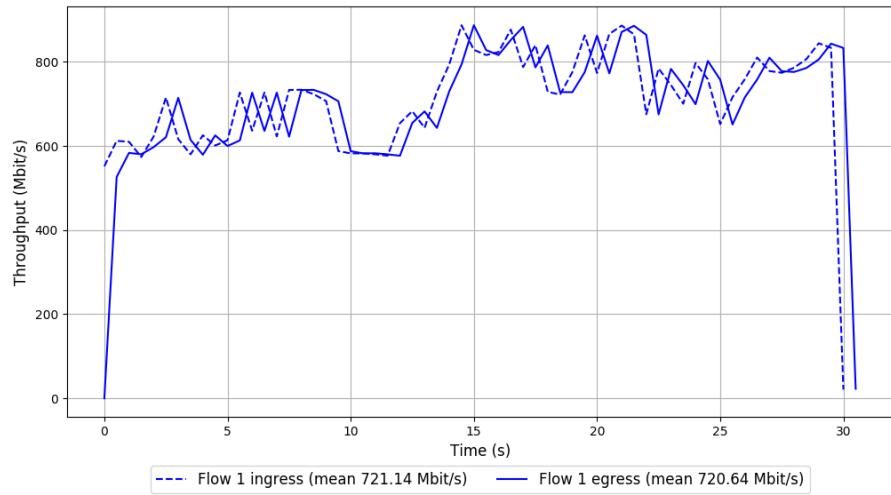


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-06-27 02:20:39
End at: 2019-06-27 02:21:09
Local clock offset: -1.312 ms
Remote clock offset: -2.565 ms

# Below is generated by plot.py at 2019-06-27 05:02:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 720.64 Mbit/s
95th percentile per-packet one-way delay: 46.530 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 720.64 Mbit/s
95th percentile per-packet one-way delay: 46.530 ms
Loss rate: 0.07%
```

Run 1: Report of TCP Cubic — Data Link

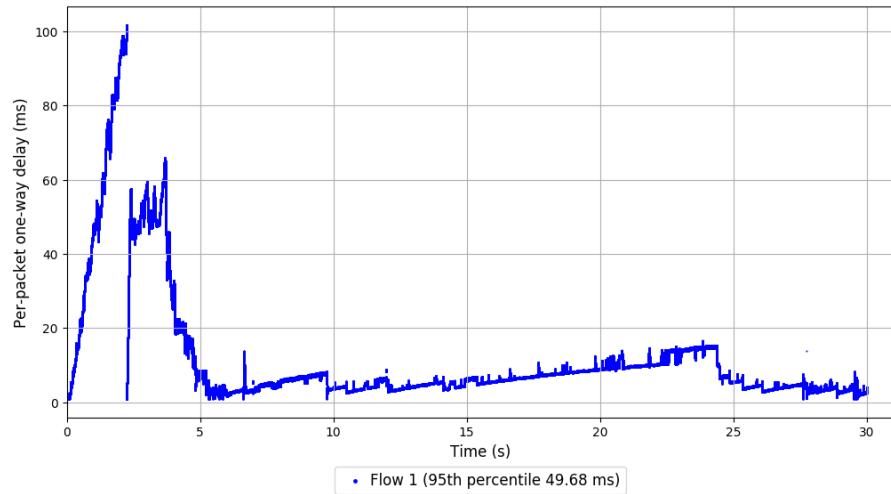
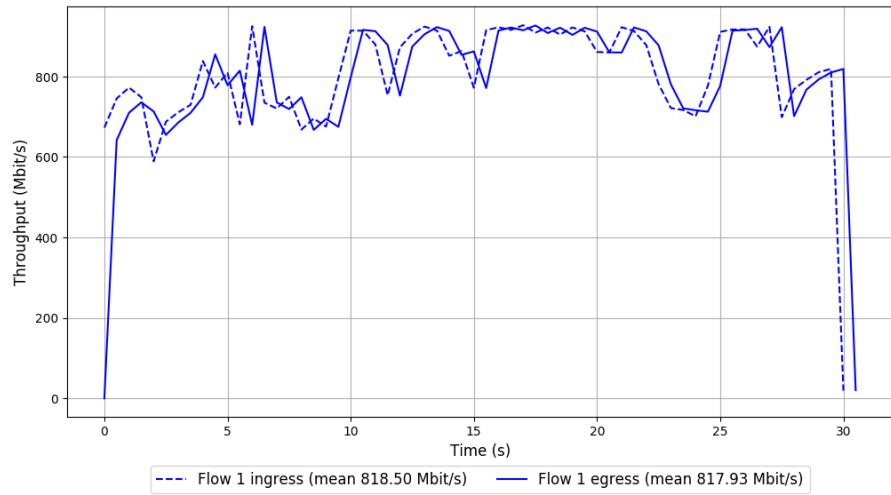


Run 2: Statistics of TCP Cubic

```
Start at: 2019-06-27 02:51:01
End at: 2019-06-27 02:51:31
Local clock offset: 0.042 ms
Remote clock offset: -0.94 ms

# Below is generated by plot.py at 2019-06-27 05:03:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 817.93 Mbit/s
95th percentile per-packet one-way delay: 49.679 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 817.93 Mbit/s
95th percentile per-packet one-way delay: 49.679 ms
Loss rate: 0.07%
```

Run 2: Report of TCP Cubic — Data Link

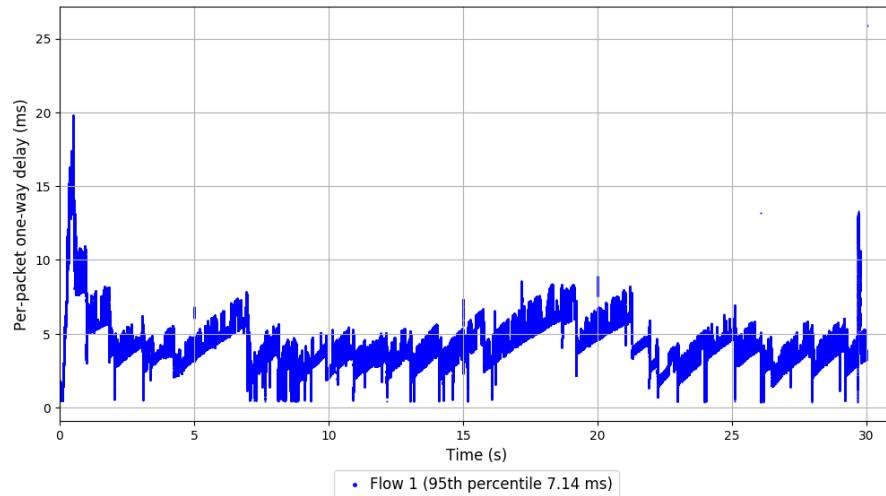
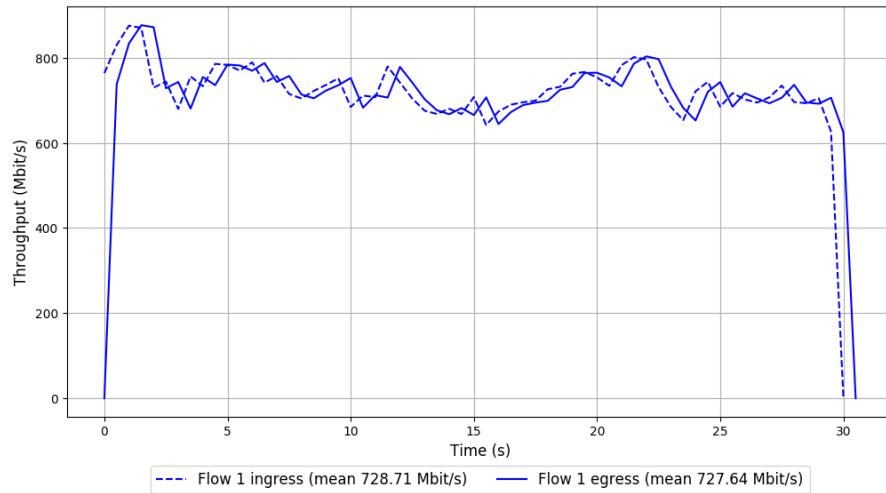


Run 3: Statistics of TCP Cubic

```
Start at: 2019-06-27 03:21:28
End at: 2019-06-27 03:21:58
Local clock offset: 1.793 ms
Remote clock offset: -1.181 ms

# Below is generated by plot.py at 2019-06-27 05:03:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 727.64 Mbit/s
95th percentile per-packet one-way delay: 7.144 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 727.64 Mbit/s
95th percentile per-packet one-way delay: 7.144 ms
Loss rate: 0.08%
```

Run 3: Report of TCP Cubic — Data Link

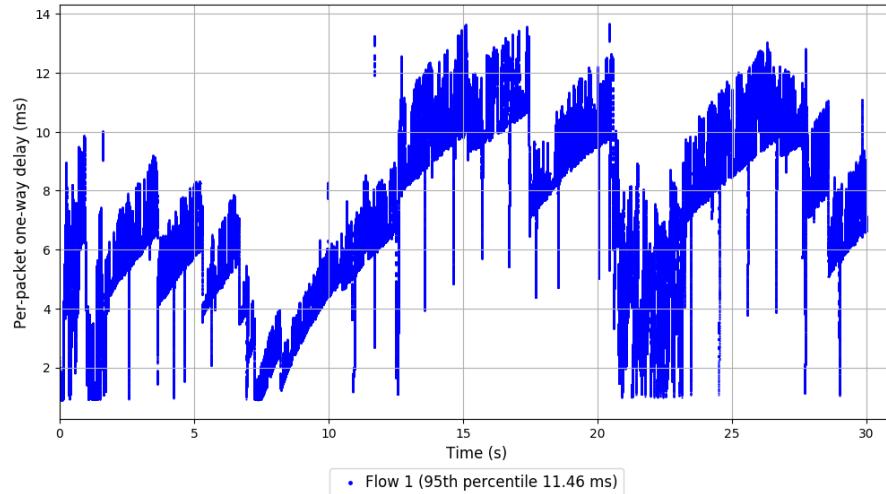
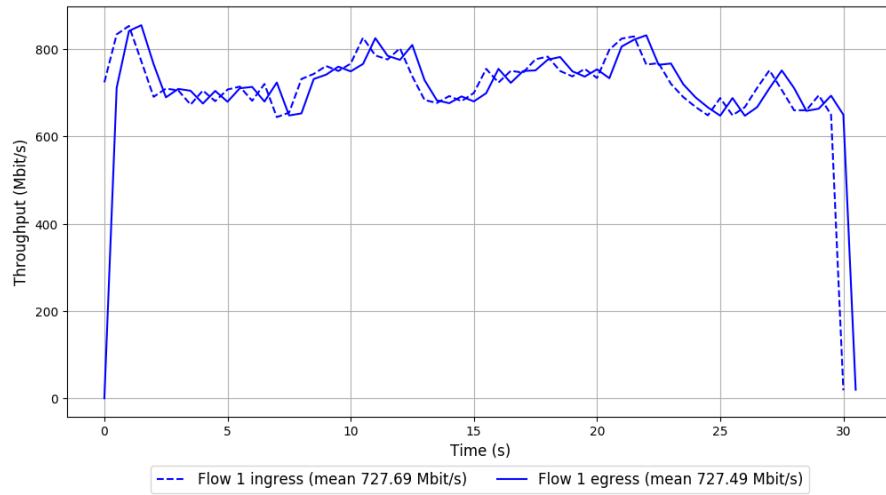


Run 4: Statistics of TCP Cubic

```
Start at: 2019-06-27 03:51:44
End at: 2019-06-27 03:52:14
Local clock offset: -2.969 ms
Remote clock offset: -3.963 ms

# Below is generated by plot.py at 2019-06-27 05:09:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 727.49 Mbit/s
95th percentile per-packet one-way delay: 11.458 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 727.49 Mbit/s
95th percentile per-packet one-way delay: 11.458 ms
Loss rate: 0.03%
```

Run 4: Report of TCP Cubic — Data Link

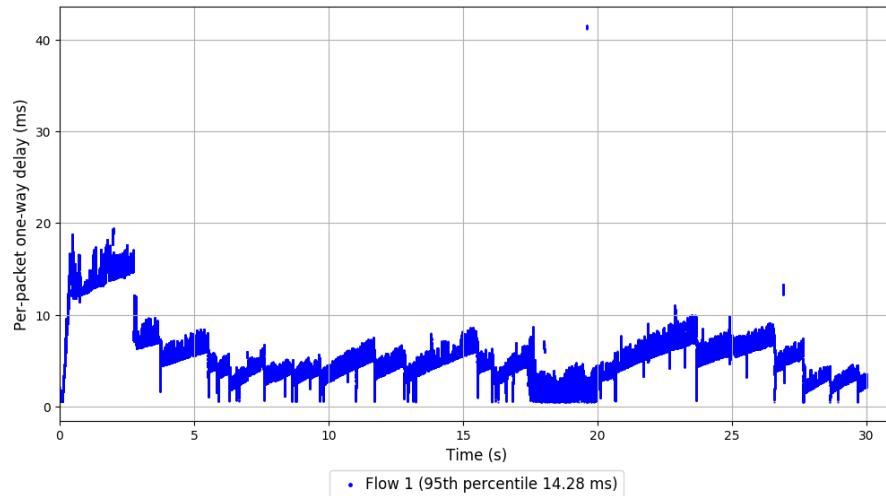
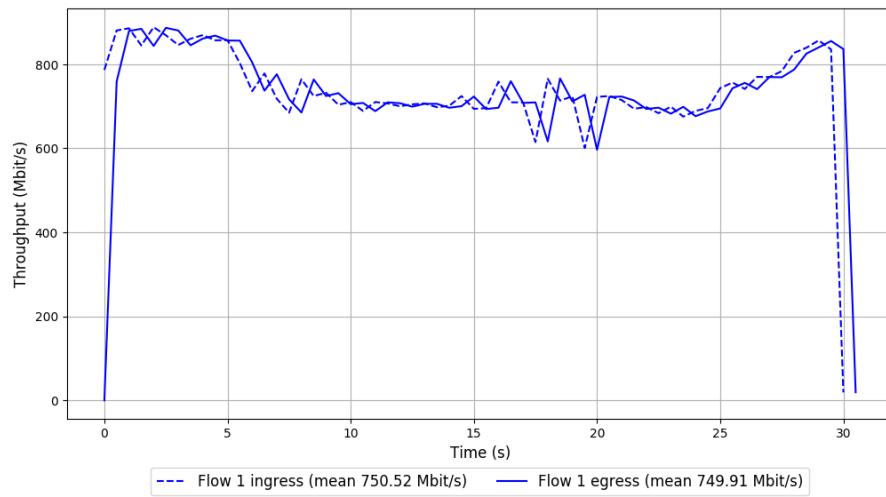


Run 5: Statistics of TCP Cubic

```
Start at: 2019-06-27 04:22:17
End at: 2019-06-27 04:22:47
Local clock offset: -1.176 ms
Remote clock offset: -3.418 ms

# Below is generated by plot.py at 2019-06-27 05:09:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 749.91 Mbit/s
95th percentile per-packet one-way delay: 14.282 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 749.91 Mbit/s
95th percentile per-packet one-way delay: 14.282 ms
Loss rate: 0.08%
```

Run 5: Report of TCP Cubic — Data Link

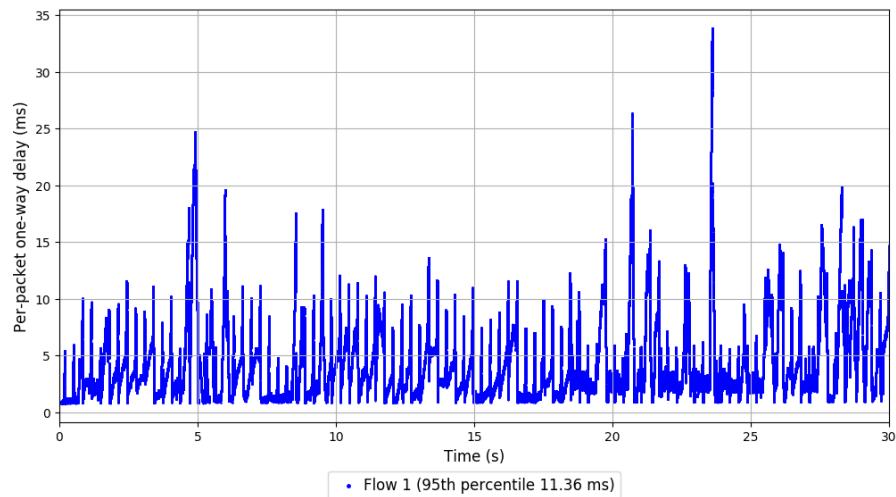
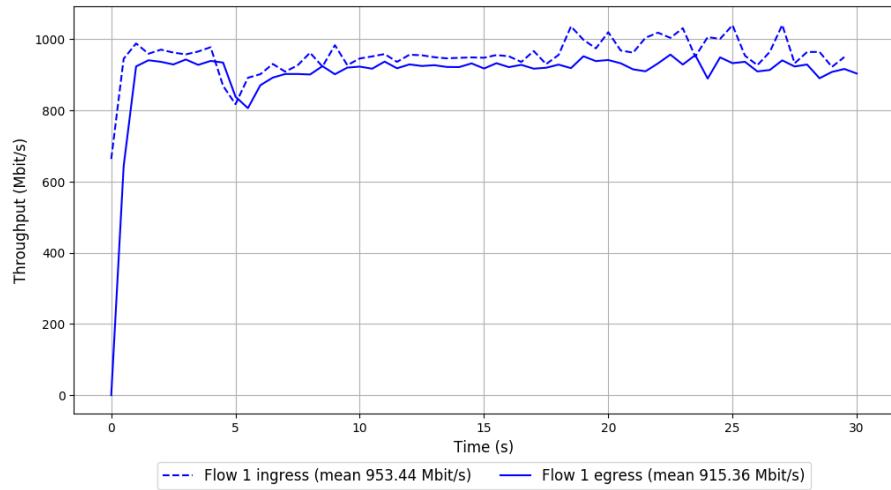


```
Run 1: Statistics of FillP

Start at: 2019-06-27 02:19:00
End at: 2019-06-27 02:19:30
Local clock offset: -1.571 ms
Remote clock offset: -2.454 ms

# Below is generated by plot.py at 2019-06-27 05:15:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 915.36 Mbit/s
95th percentile per-packet one-way delay: 11.357 ms
Loss rate: 3.99%
-- Flow 1:
Average throughput: 915.36 Mbit/s
95th percentile per-packet one-way delay: 11.357 ms
Loss rate: 3.99%
```

Run 1: Report of FillP — Data Link

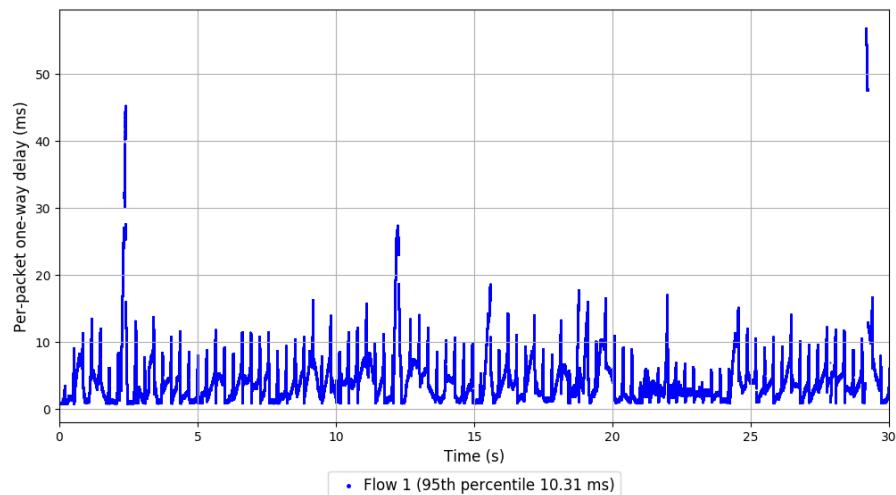
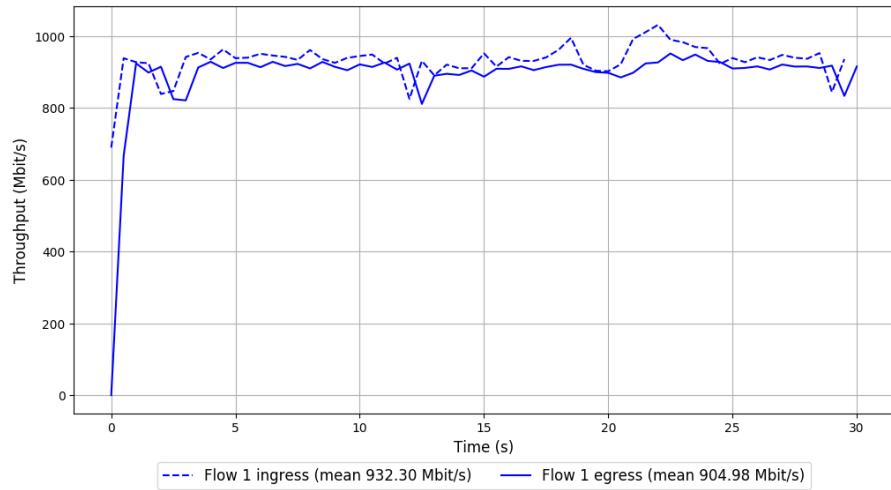


Run 2: Statistics of FillP

```
Start at: 2019-06-27 02:49:23
End at: 2019-06-27 02:49:53
Local clock offset: -0.622 ms
Remote clock offset: -1.317 ms

# Below is generated by plot.py at 2019-06-27 05:15:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 904.98 Mbit/s
95th percentile per-packet one-way delay: 10.311 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 904.98 Mbit/s
95th percentile per-packet one-way delay: 10.311 ms
Loss rate: 2.93%
```

Run 2: Report of FillP — Data Link

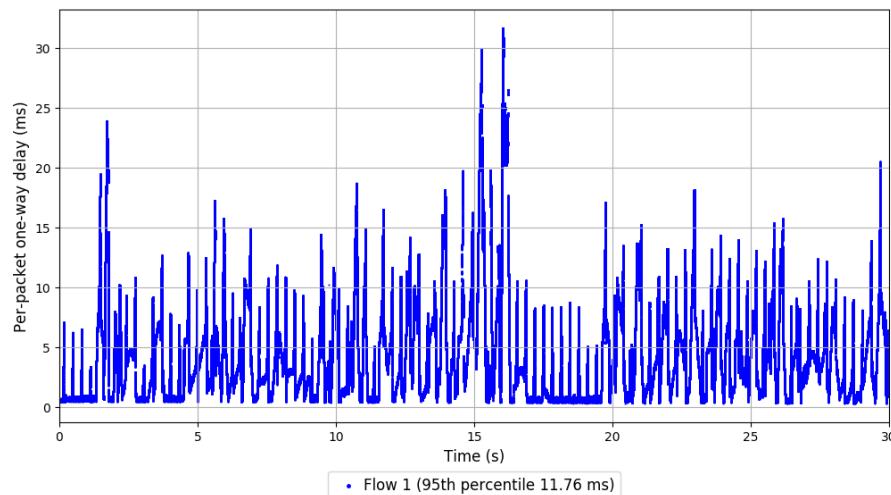
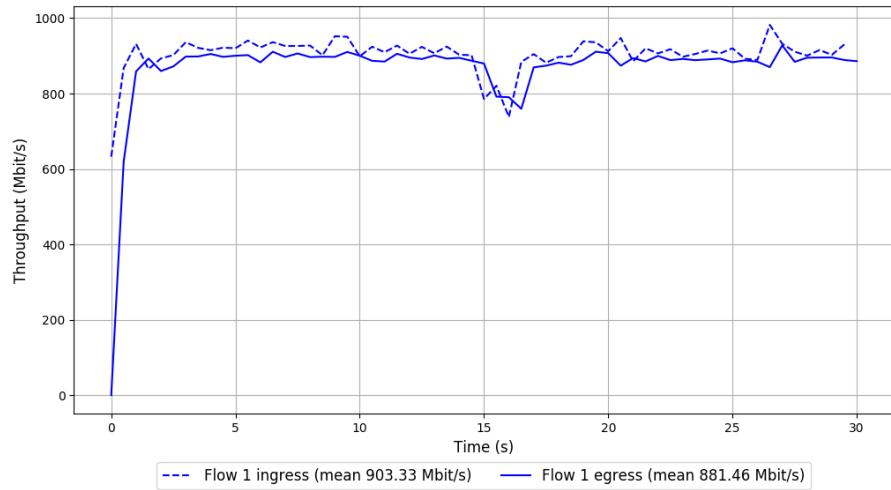


Run 3: Statistics of FillP

```
Start at: 2019-06-27 03:19:50
End at: 2019-06-27 03:20:20
Local clock offset: 2.922 ms
Remote clock offset: -0.626 ms

# Below is generated by plot.py at 2019-06-27 05:15:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 881.46 Mbit/s
95th percentile per-packet one-way delay: 11.758 ms
Loss rate: 2.42%
-- Flow 1:
Average throughput: 881.46 Mbit/s
95th percentile per-packet one-way delay: 11.758 ms
Loss rate: 2.42%
```

Run 3: Report of FillP — Data Link

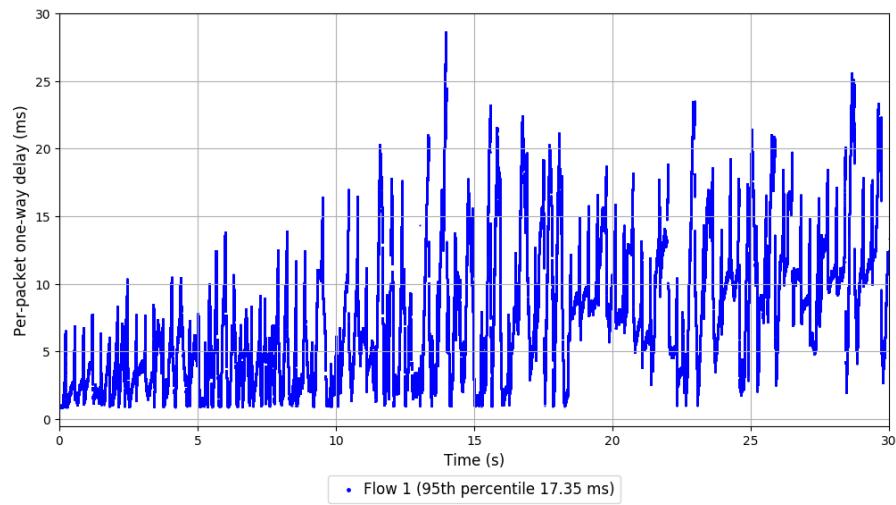
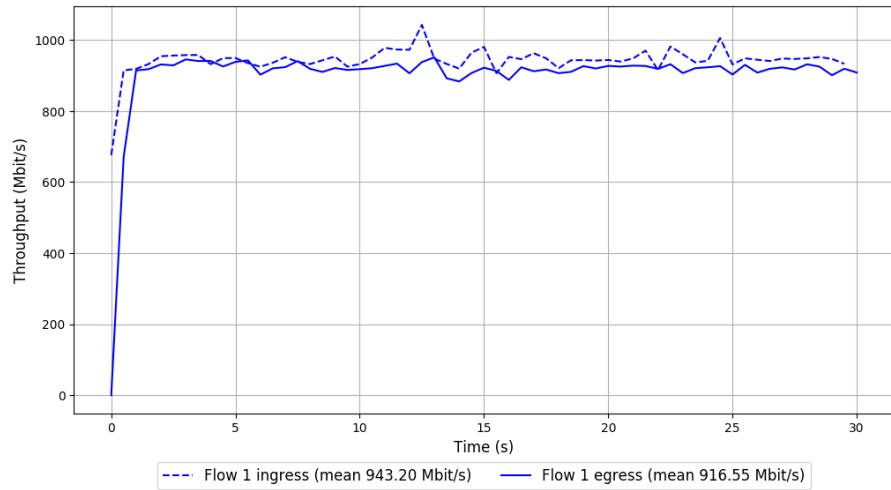


Run 4: Statistics of FillP

```
Start at: 2019-06-27 03:50:06
End at: 2019-06-27 03:50:36
Local clock offset: -3.664 ms
Remote clock offset: -4.222 ms

# Below is generated by plot.py at 2019-06-27 05:15:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 916.55 Mbit/s
95th percentile per-packet one-way delay: 17.352 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 916.55 Mbit/s
95th percentile per-packet one-way delay: 17.352 ms
Loss rate: 2.82%
```

Run 4: Report of FillP — Data Link

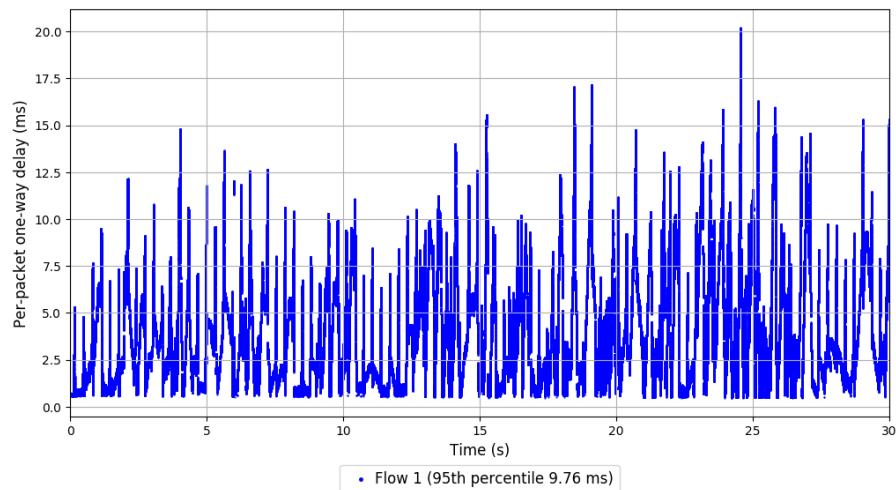
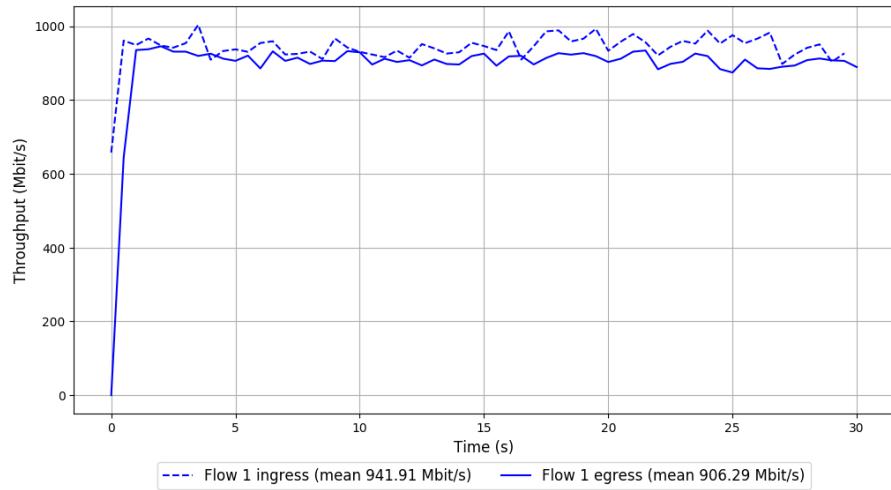


Run 5: Statistics of FillP

```
Start at: 2019-06-27 04:20:38
End at: 2019-06-27 04:21:08
Local clock offset: -0.7 ms
Remote clock offset: -3.349 ms

# Below is generated by plot.py at 2019-06-27 05:15:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 906.29 Mbit/s
95th percentile per-packet one-way delay: 9.755 ms
Loss rate: 3.78%
-- Flow 1:
Average throughput: 906.29 Mbit/s
95th percentile per-packet one-way delay: 9.755 ms
Loss rate: 3.78%
```

Run 5: Report of FillP — Data Link

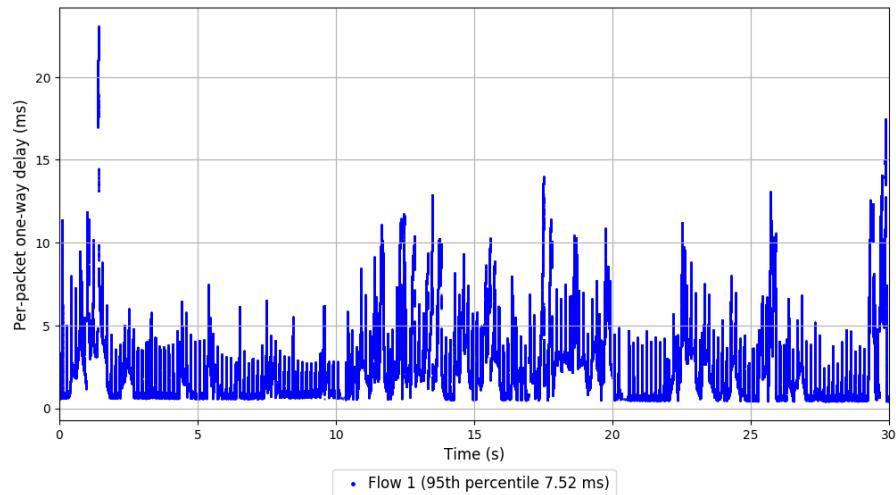
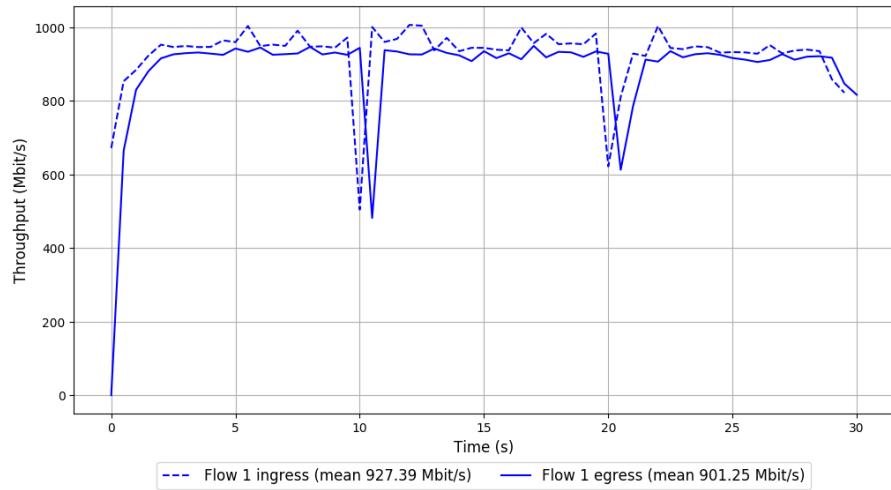


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-06-27 02:42:36
End at: 2019-06-27 02:43:06
Local clock offset: -0.85 ms
Remote clock offset: -3.187 ms

# Below is generated by plot.py at 2019-06-27 05:16:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 901.25 Mbit/s
95th percentile per-packet one-way delay: 7.516 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 901.25 Mbit/s
95th percentile per-packet one-way delay: 7.516 ms
Loss rate: 2.82%
```

Run 1: Report of FillP-Sheep — Data Link

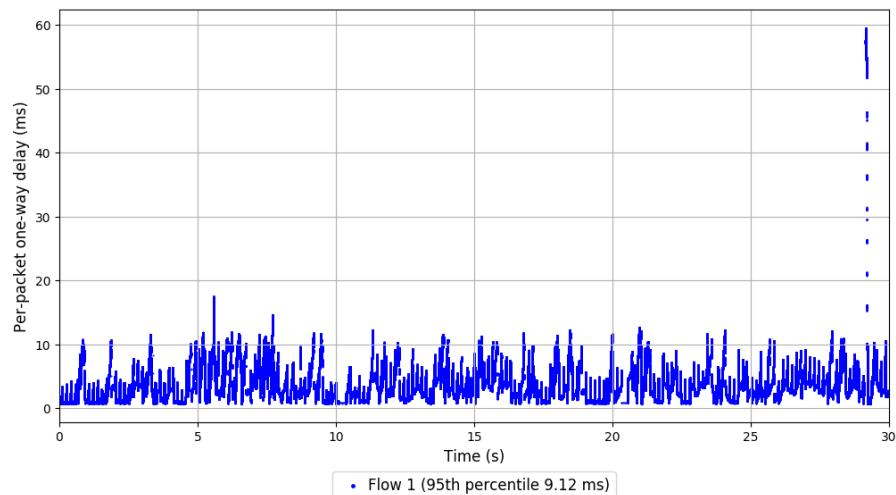
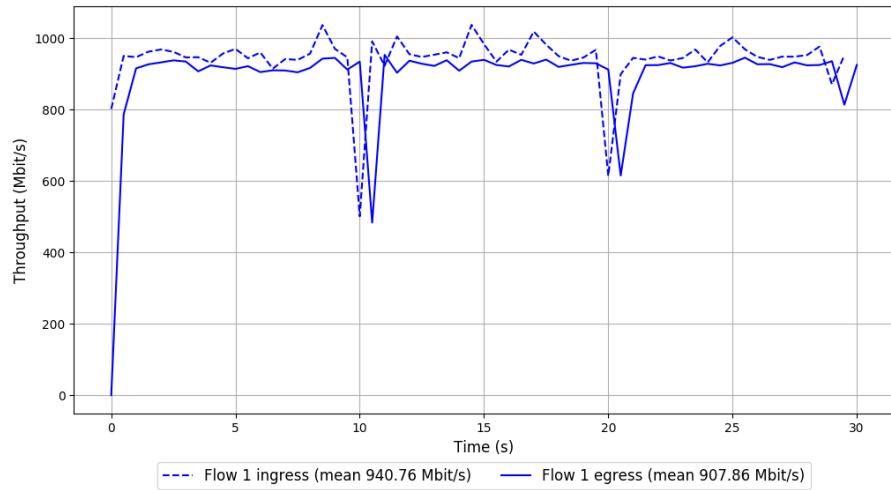


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-06-27 03:13:00
End at: 2019-06-27 03:13:30
Local clock offset: 3.516 ms
Remote clock offset: 0.978 ms

# Below is generated by plot.py at 2019-06-27 05:23:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 907.86 Mbit/s
95th percentile per-packet one-way delay: 9.122 ms
Loss rate: 3.49%
-- Flow 1:
Average throughput: 907.86 Mbit/s
95th percentile per-packet one-way delay: 9.122 ms
Loss rate: 3.49%
```

Run 2: Report of FillP-Sheep — Data Link

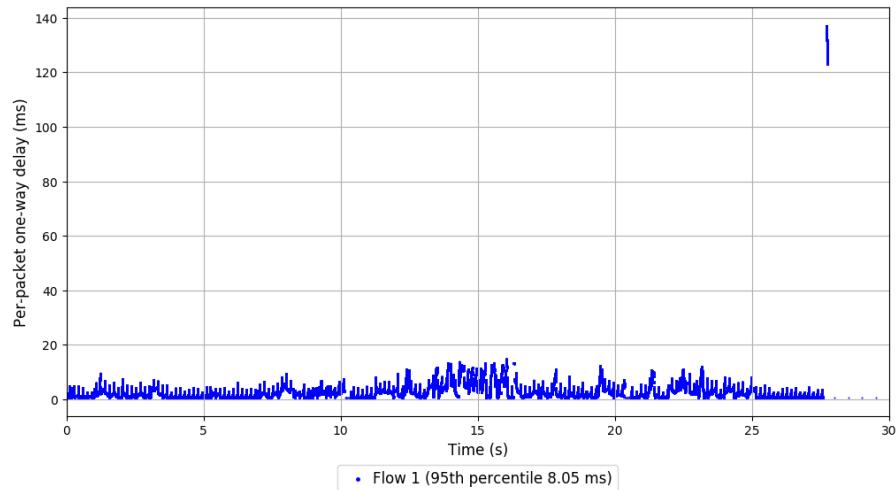
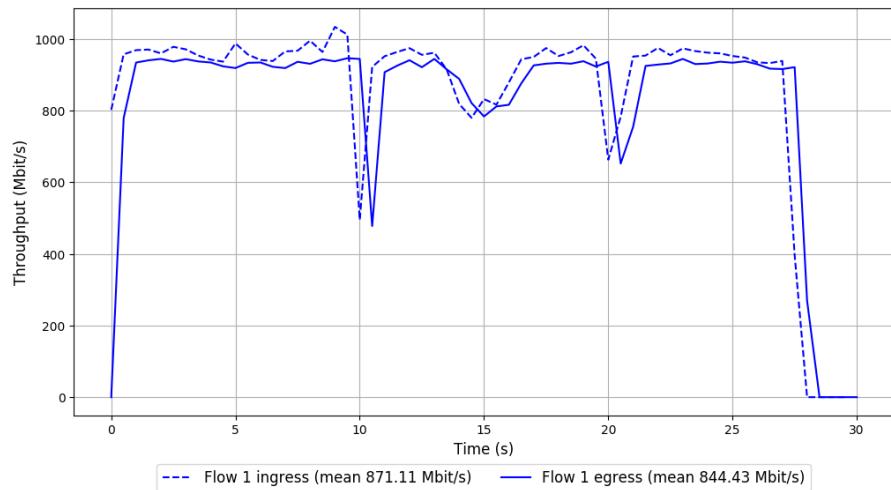


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-06-27 03:43:21
End at: 2019-06-27 03:43:51
Local clock offset: -3.822 ms
Remote clock offset: -3.889 ms

# Below is generated by plot.py at 2019-06-27 05:23:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 844.43 Mbit/s
95th percentile per-packet one-way delay: 8.049 ms
Loss rate: 3.06%
-- Flow 1:
Average throughput: 844.43 Mbit/s
95th percentile per-packet one-way delay: 8.049 ms
Loss rate: 3.06%
```

Run 3: Report of FillP-Sheep — Data Link

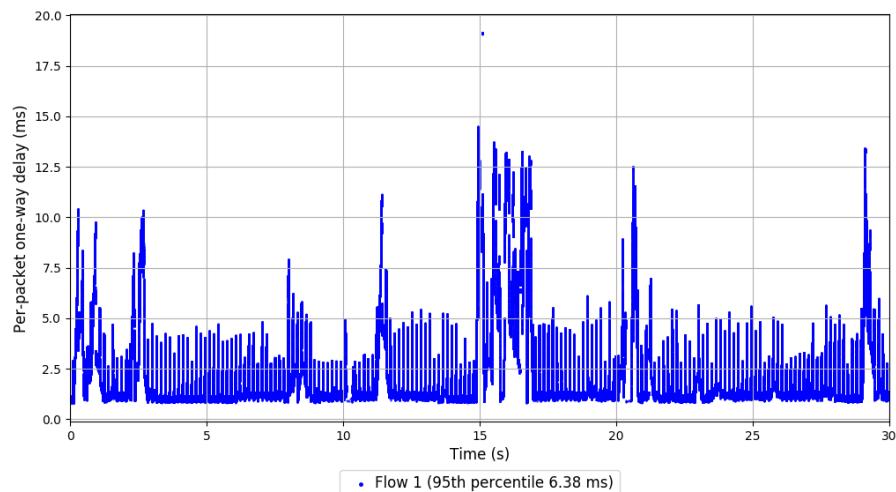
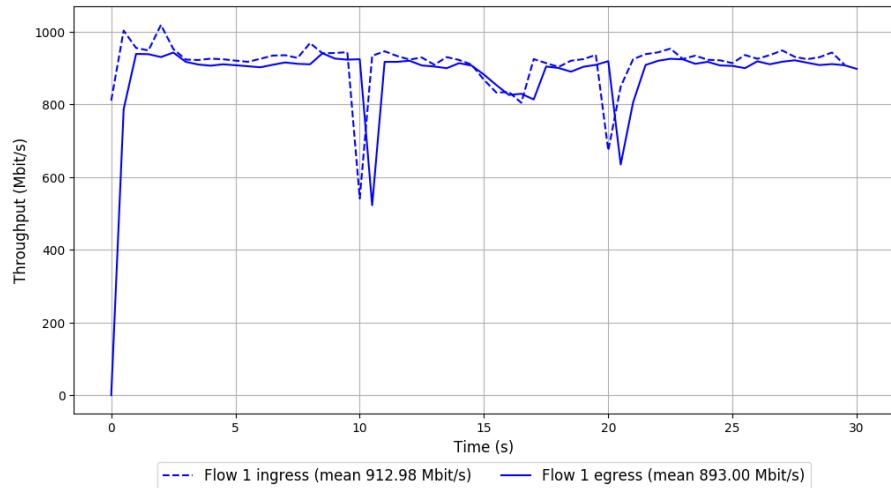


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-06-27 04:13:50
End at: 2019-06-27 04:14:20
Local clock offset: -0.228 ms
Remote clock offset: -3.237 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 893.00 Mbit/s
95th percentile per-packet one-way delay: 6.383 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 893.00 Mbit/s
95th percentile per-packet one-way delay: 6.383 ms
Loss rate: 2.19%
```

Run 4: Report of FillP-Sheep — Data Link

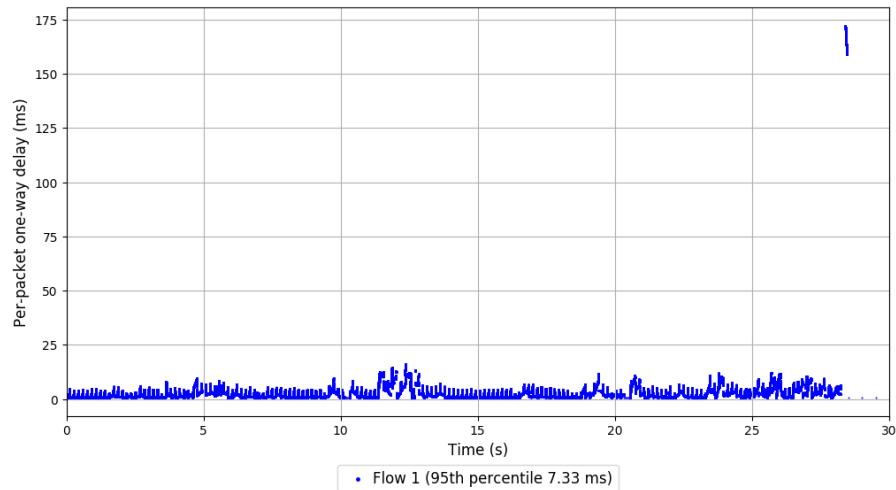
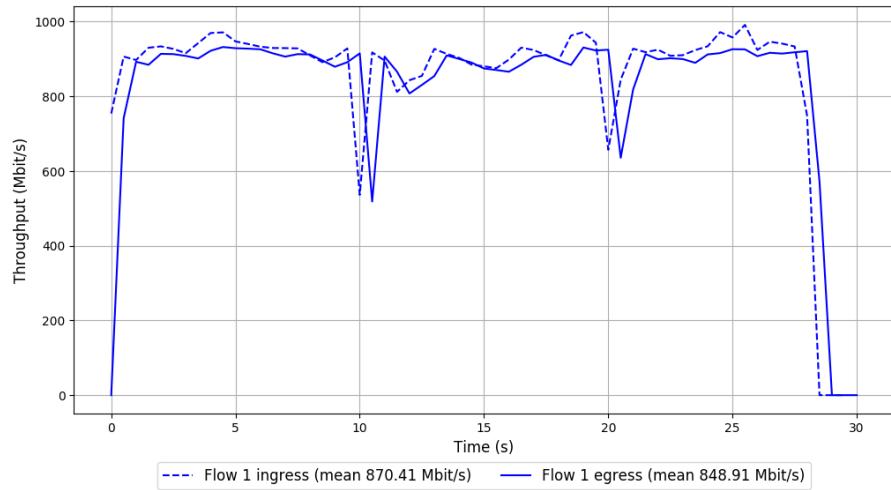


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-06-27 04:44:23
End at: 2019-06-27 04:44:53
Local clock offset: -3.714 ms
Remote clock offset: 0.49 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 848.91 Mbit/s
95th percentile per-packet one-way delay: 7.333 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 848.91 Mbit/s
95th percentile per-packet one-way delay: 7.333 ms
Loss rate: 2.47%
```

Run 5: Report of FillP-Sheep — Data Link

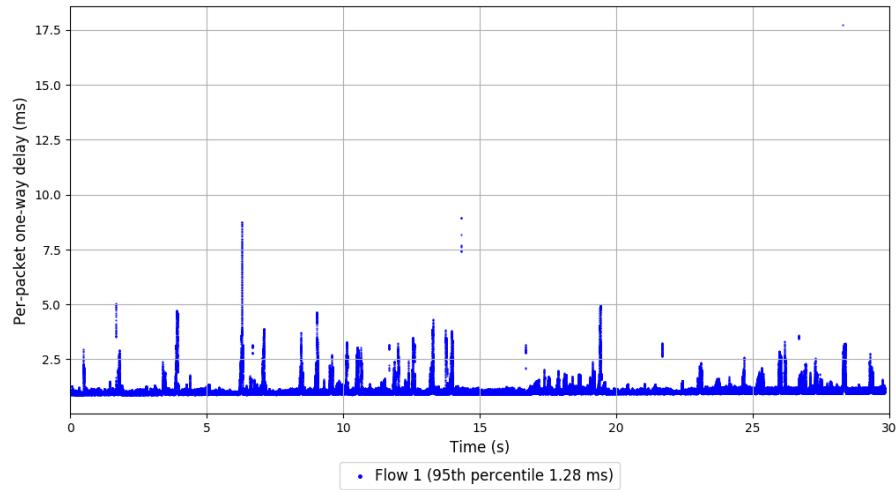
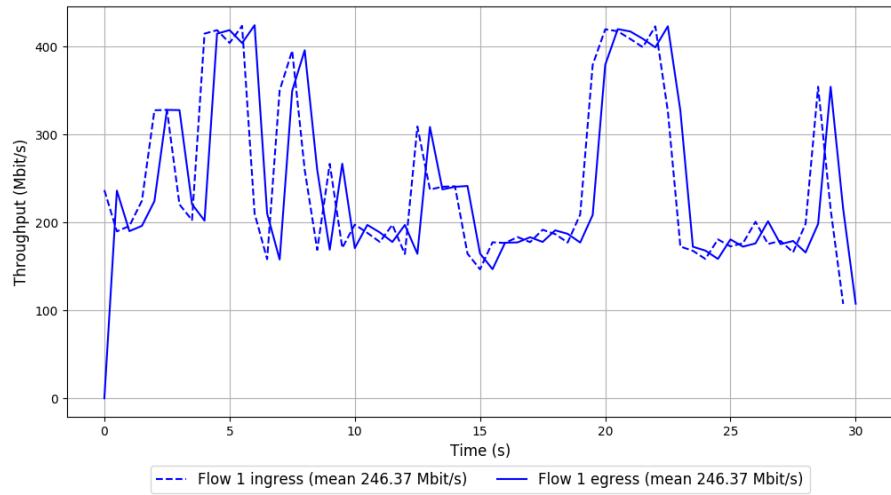


Run 1: Statistics of Indigo

```
Start at: 2019-06-27 02:24:50
End at: 2019-06-27 02:25:20
Local clock offset: -0.951 ms
Remote clock offset: -2.865 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.37 Mbit/s
95th percentile per-packet one-way delay: 1.276 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 246.37 Mbit/s
95th percentile per-packet one-way delay: 1.276 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

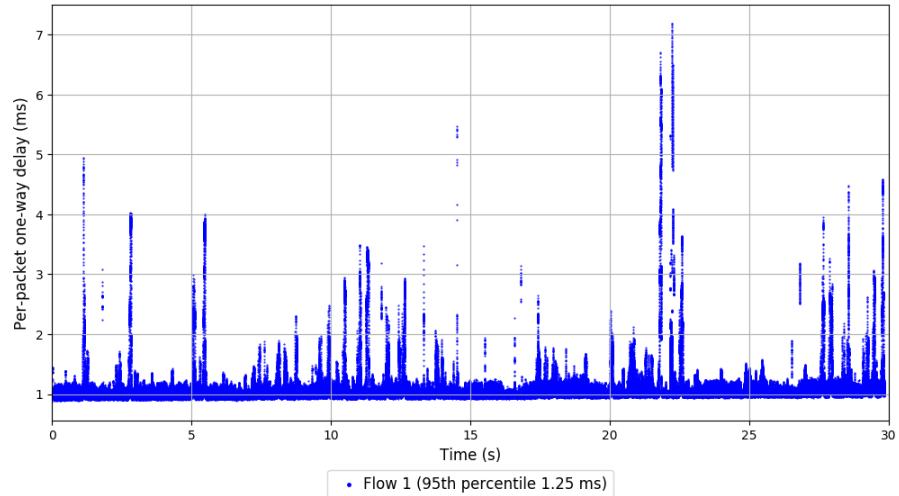
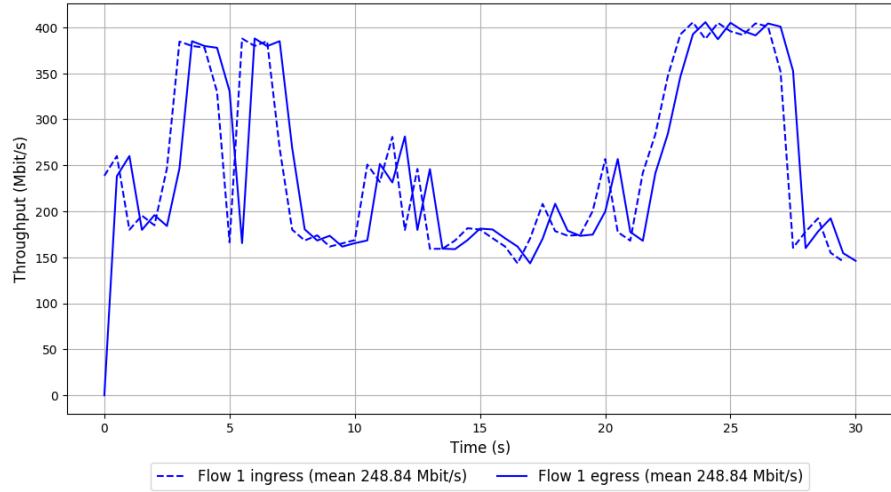


Run 2: Statistics of Indigo

```
Start at: 2019-06-27 02:55:20
End at: 2019-06-27 02:55:50
Local clock offset: 1.353 ms
Remote clock offset: -0.249 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.84 Mbit/s
95th percentile per-packet one-way delay: 1.248 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 248.84 Mbit/s
95th percentile per-packet one-way delay: 1.248 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

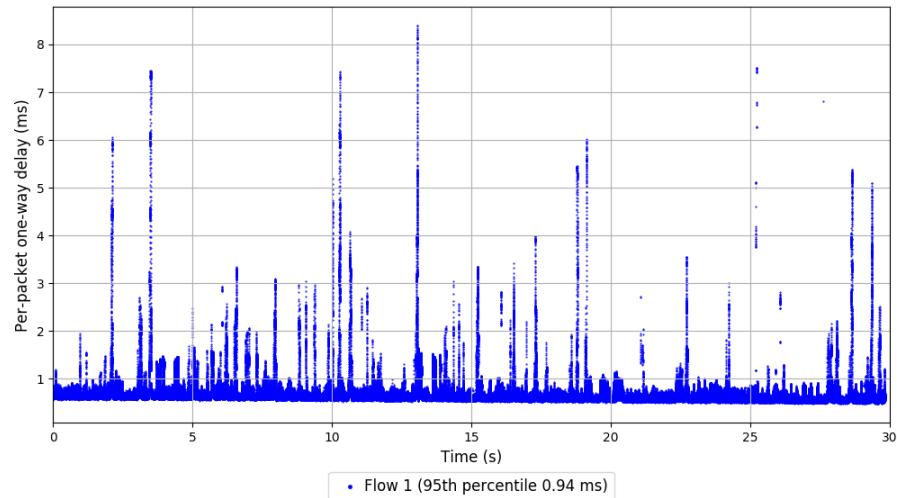
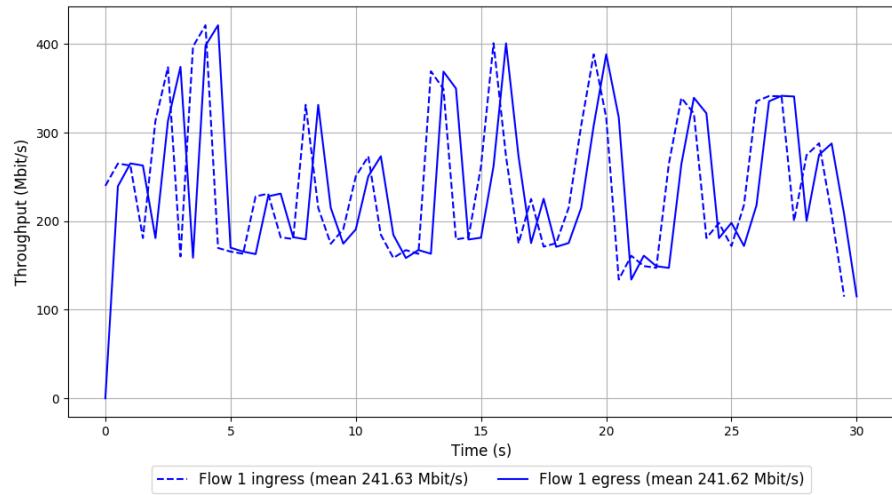


Run 3: Statistics of Indigo

```
Start at: 2019-06-27 03:25:44
End at: 2019-06-27 03:26:15
Local clock offset: -0.245 ms
Remote clock offset: -2.068 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 241.62 Mbit/s
95th percentile per-packet one-way delay: 0.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 241.62 Mbit/s
95th percentile per-packet one-way delay: 0.941 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

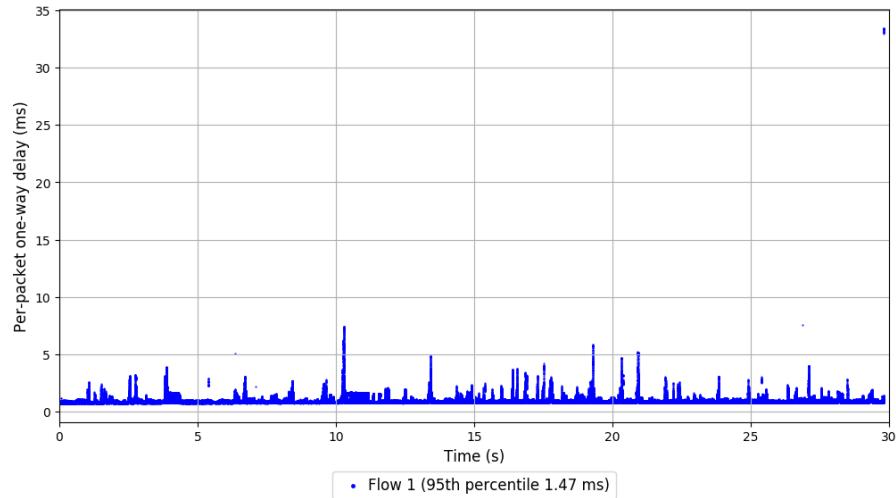
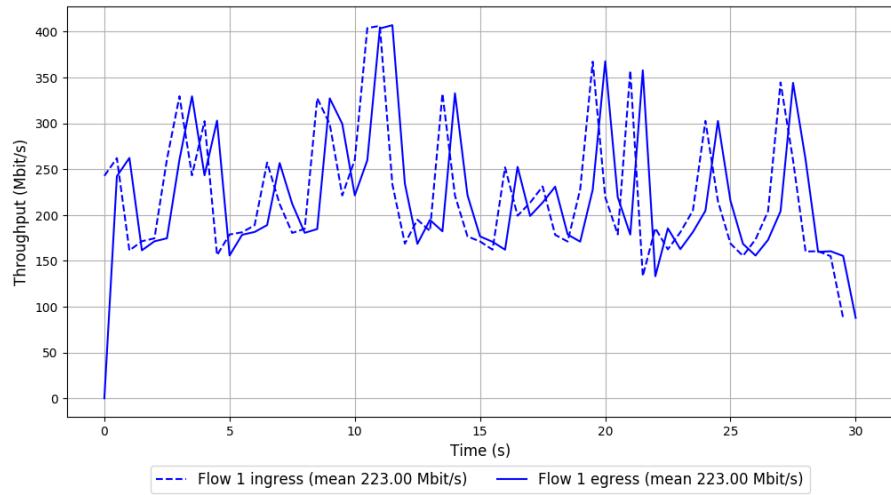


Run 4: Statistics of Indigo

```
Start at: 2019-06-27 03:56:01
End at: 2019-06-27 03:56:31
Local clock offset: -1.739 ms
Remote clock offset: -3.646 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.00 Mbit/s
95th percentile per-packet one-way delay: 1.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.00 Mbit/s
95th percentile per-packet one-way delay: 1.465 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

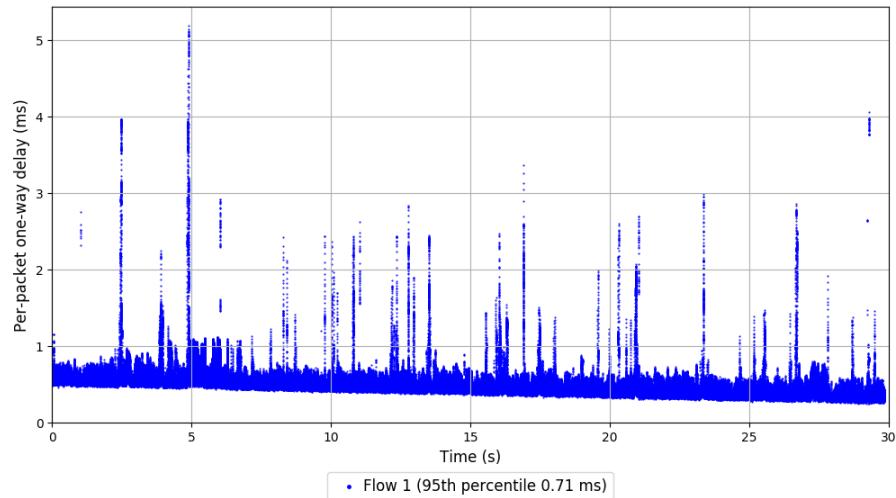
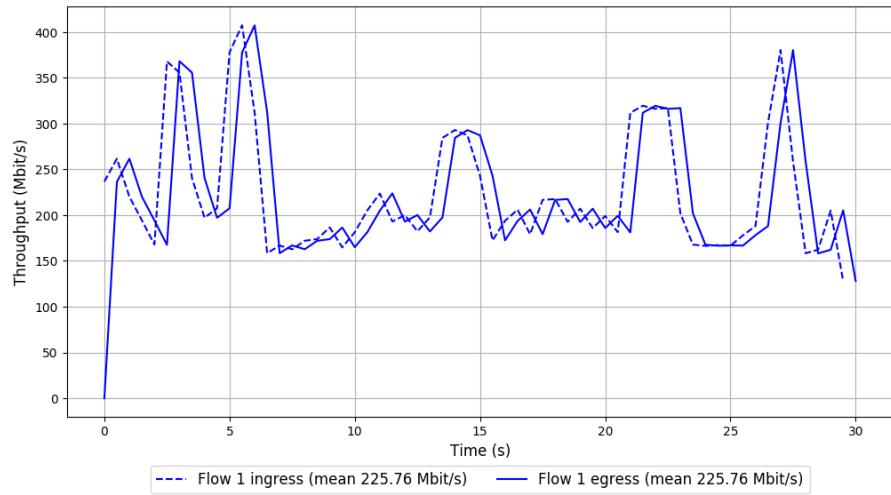


Run 5: Statistics of Indigo

```
Start at: 2019-06-27 04:26:35
End at: 2019-06-27 04:27:05
Local clock offset: -2.048 ms
Remote clock offset: -2.447 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.76 Mbit/s
95th percentile per-packet one-way delay: 0.707 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.76 Mbit/s
95th percentile per-packet one-way delay: 0.707 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

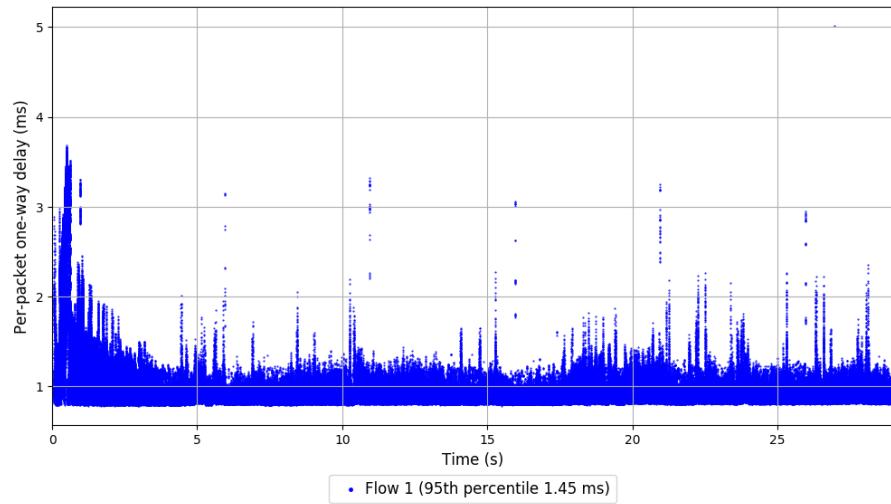
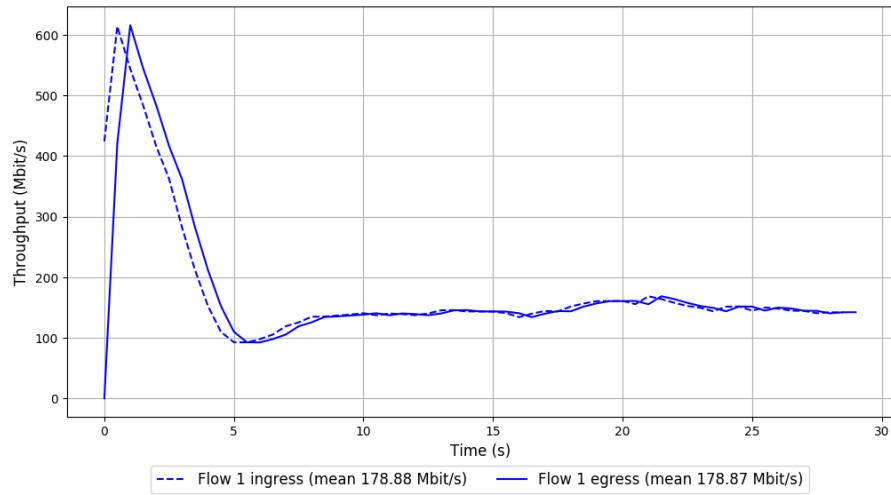


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 02:33:48
End at: 2019-06-27 02:34:18
Local clock offset: -0.718 ms
Remote clock offset: -3.369 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.87 Mbit/s
95th percentile per-packet one-way delay: 1.449 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 178.87 Mbit/s
95th percentile per-packet one-way delay: 1.449 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC3 — Data Link

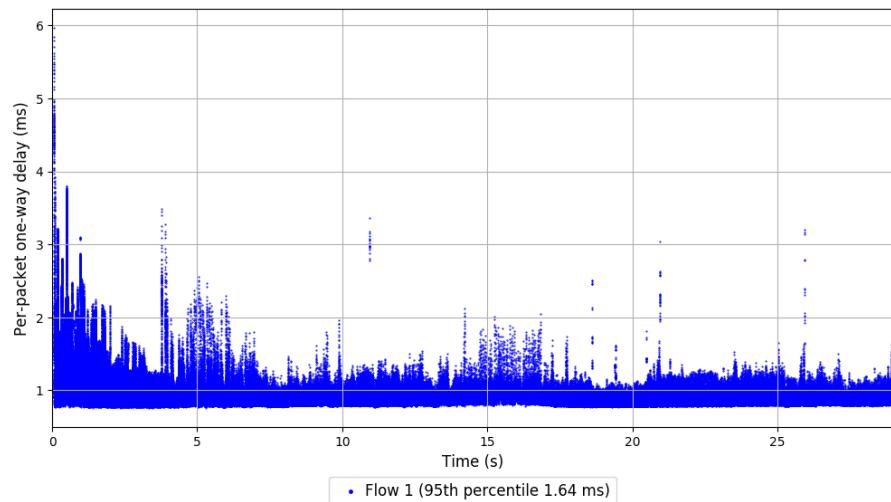
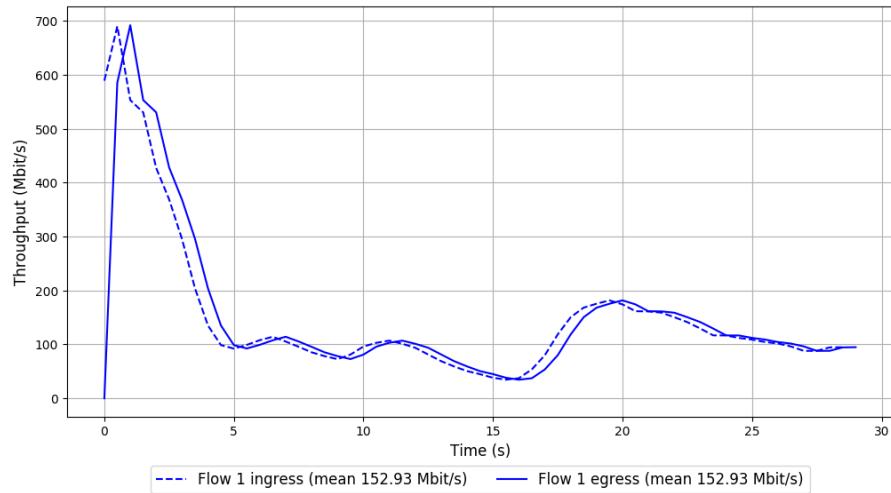


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 03:04:15
End at: 2019-06-27 03:04:46
Local clock offset: 2.822 ms
Remote clock offset: 0.511 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.93 Mbit/s
95th percentile per-packet one-way delay: 1.635 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 152.93 Mbit/s
95th percentile per-packet one-way delay: 1.635 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC3 — Data Link

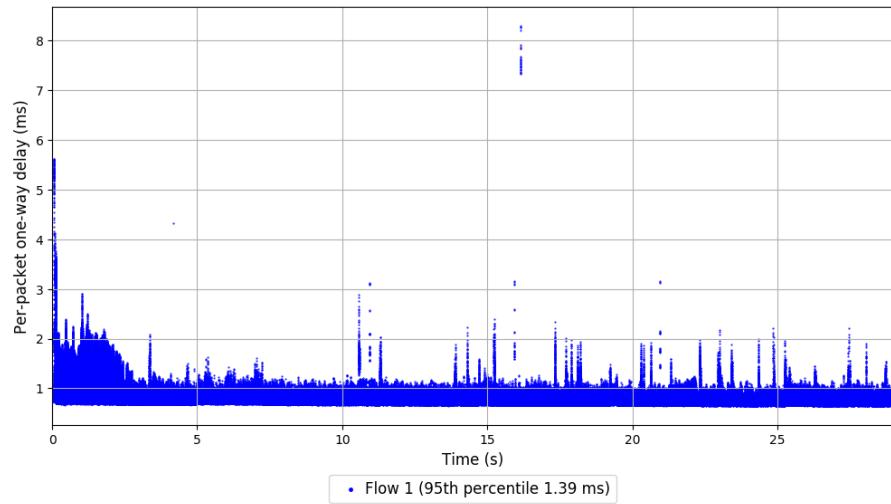
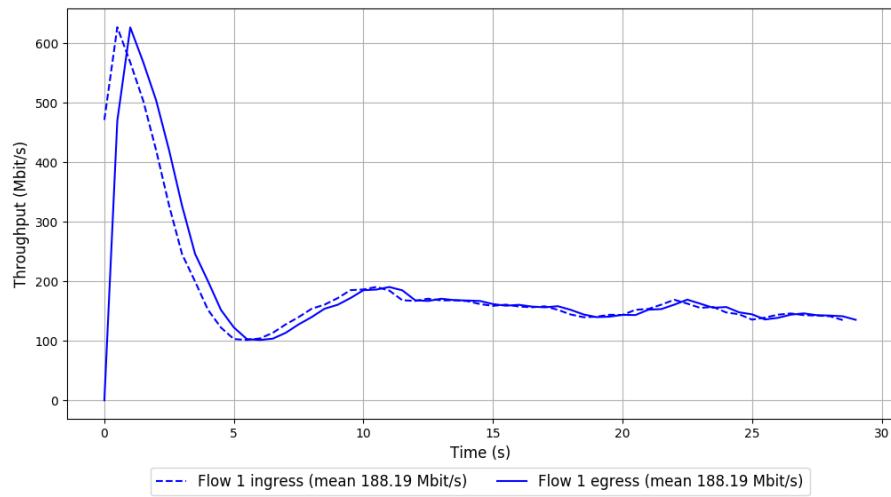


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 03:34:34
End at: 2019-06-27 03:35:04
Local clock offset: -2.633 ms
Remote clock offset: -3.18 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.19 Mbit/s
95th percentile per-packet one-way delay: 1.389 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.19 Mbit/s
95th percentile per-packet one-way delay: 1.389 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC3 — Data Link

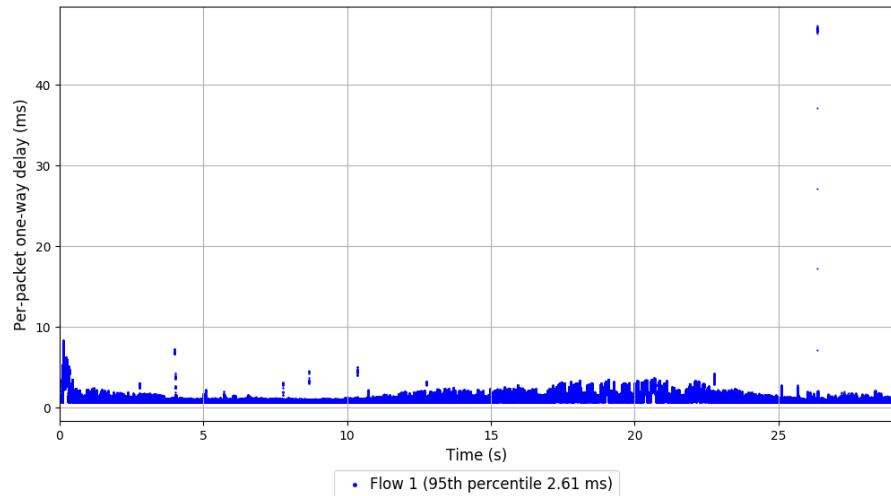
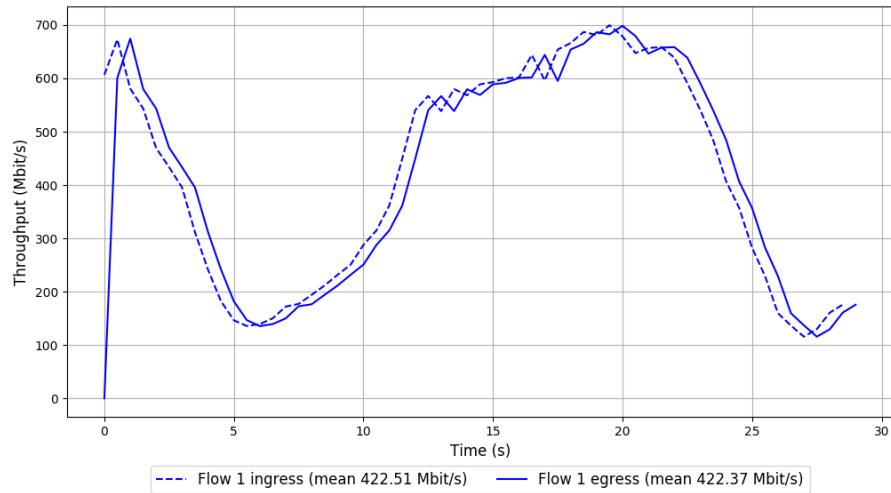


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 04:04:55
End at: 2019-06-27 04:05:25
Local clock offset: -0.562 ms
Remote clock offset: -3.307 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 422.37 Mbit/s
95th percentile per-packet one-way delay: 2.608 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 422.37 Mbit/s
95th percentile per-packet one-way delay: 2.608 ms
Loss rate: 0.03%
```

Run 4: Report of Indigo-MusesC3 — Data Link

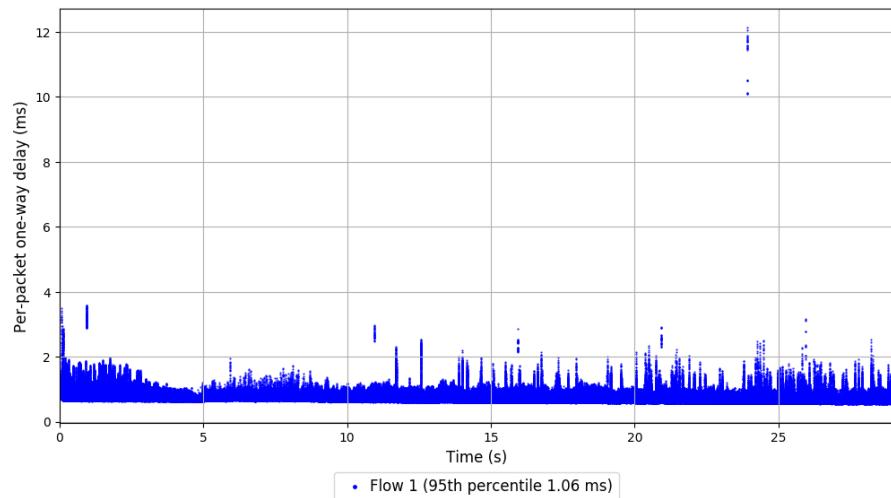
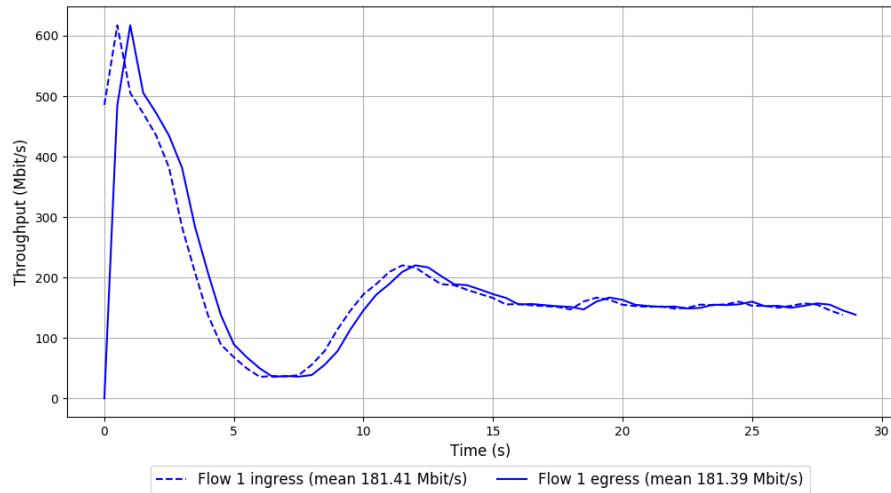


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 04:35:31
End at: 2019-06-27 04:36:01
Local clock offset: -3.064 ms
Remote clock offset: -0.383 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.39 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 181.39 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesC3 — Data Link

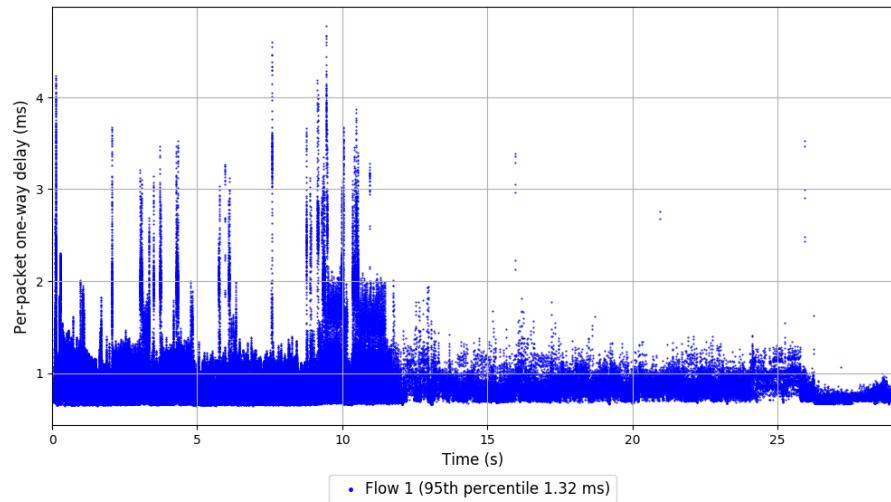
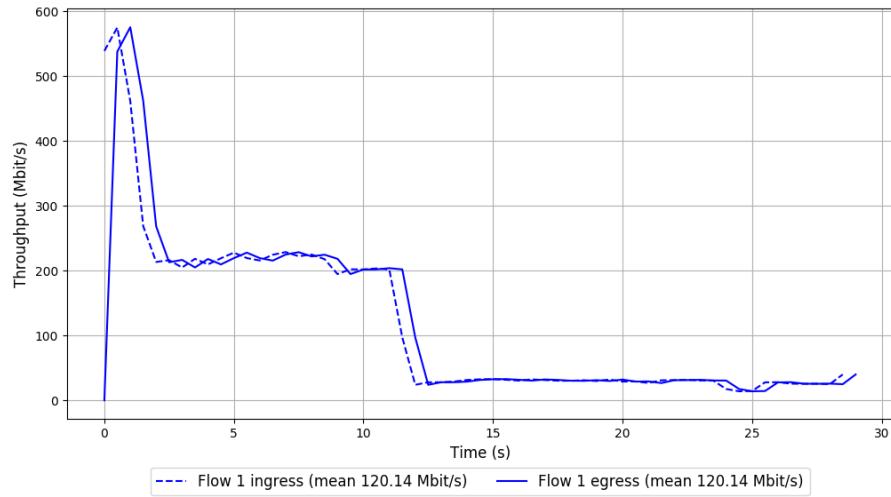


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-06-27 02:35:08
End at: 2019-06-27 02:35:38
Local clock offset: -0.729 ms
Remote clock offset: -3.533 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 120.14 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 120.14 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC5 — Data Link

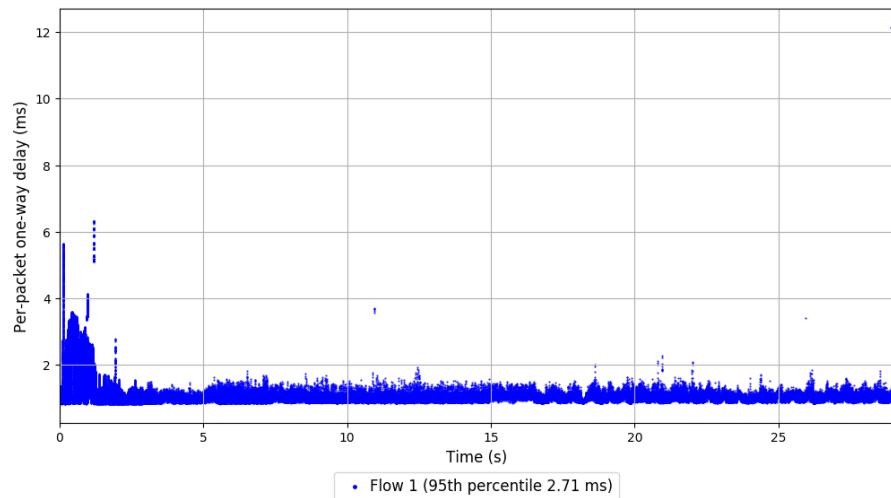
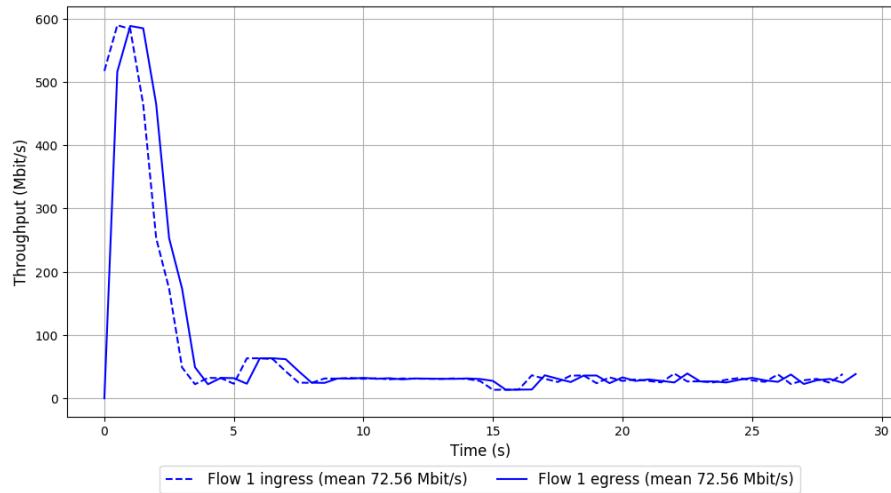


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 03:05:34
End at: 2019-06-27 03:06:04
Local clock offset: 2.934 ms
Remote clock offset: 0.649 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.56 Mbit/s
95th percentile per-packet one-way delay: 2.711 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.56 Mbit/s
95th percentile per-packet one-way delay: 2.711 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC5 — Data Link

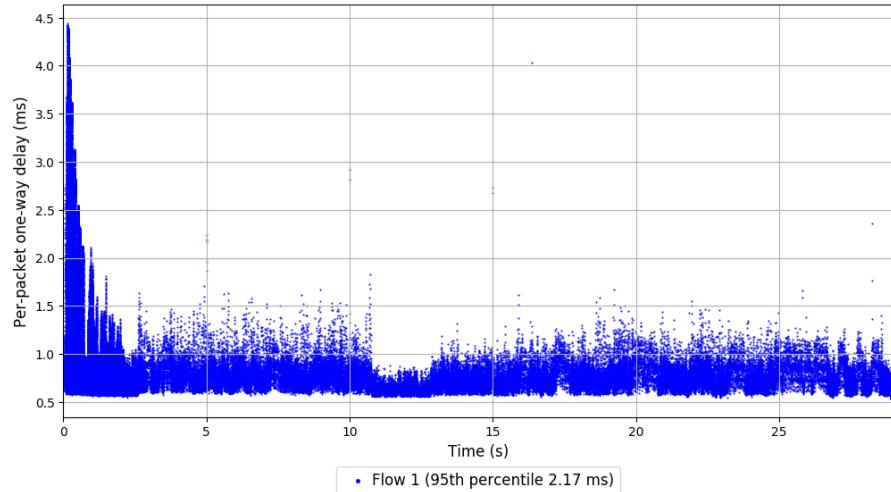
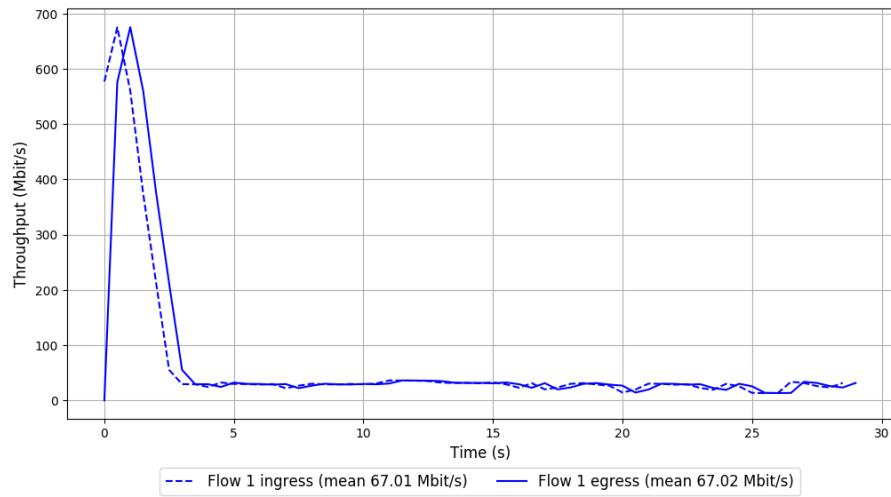


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 03:35:53
End at: 2019-06-27 03:36:23
Local clock offset: -2.801 ms
Remote clock offset: -3.384 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.02 Mbit/s
95th percentile per-packet one-way delay: 2.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.02 Mbit/s
95th percentile per-packet one-way delay: 2.173 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC5 — Data Link

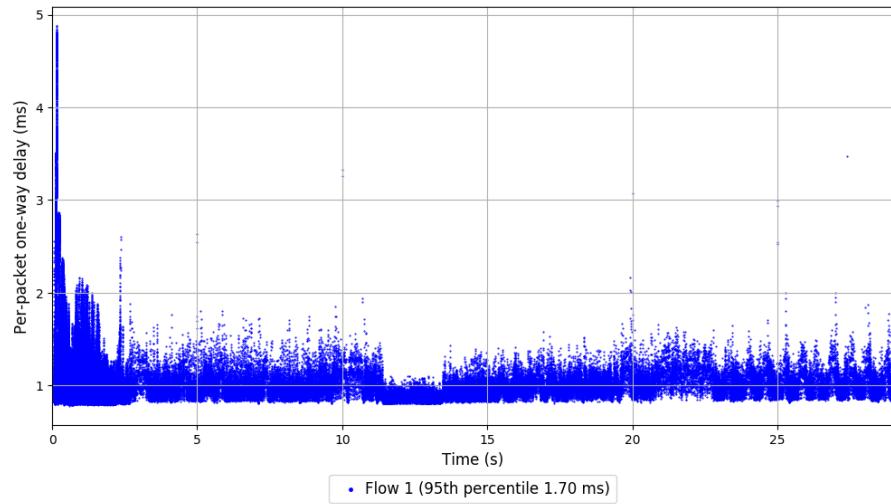
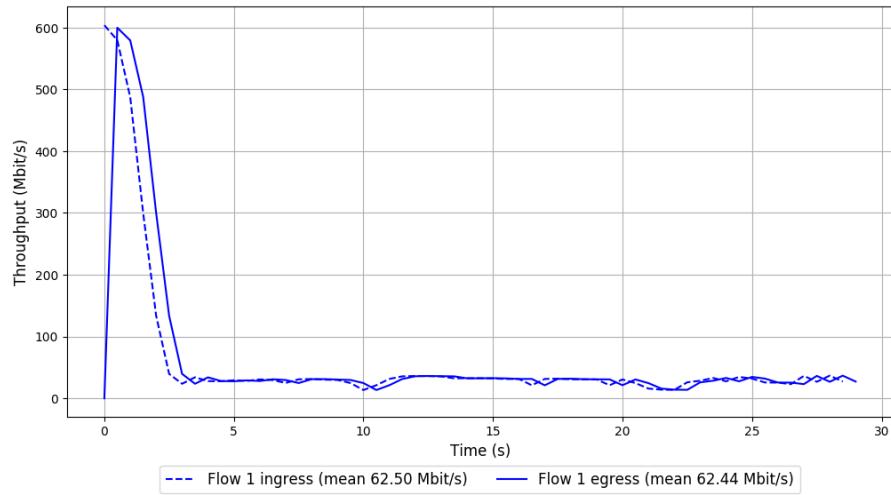


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 04:06:22
End at: 2019-06-27 04:06:52
Local clock offset: -0.491 ms
Remote clock offset: -3.231 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.44 Mbit/s
95th percentile per-packet one-way delay: 1.704 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 62.44 Mbit/s
95th percentile per-packet one-way delay: 1.704 ms
Loss rate: 0.09%
```

Run 4: Report of Indigo-MusesC5 — Data Link

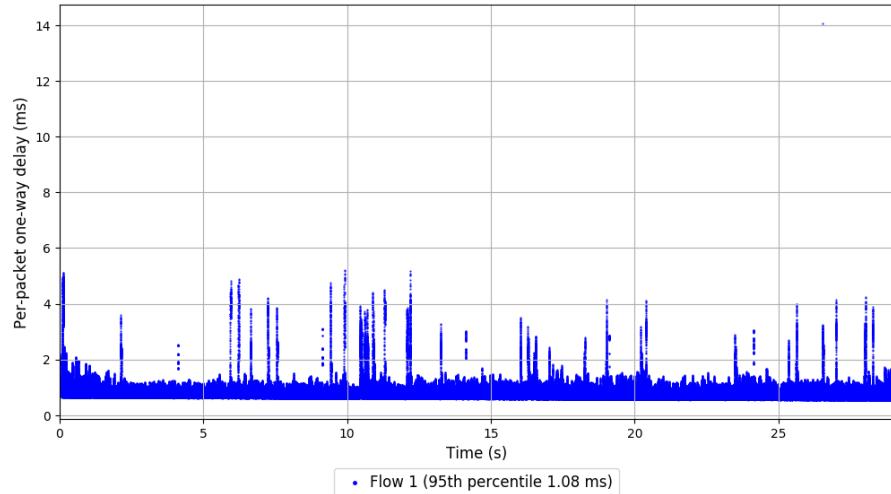
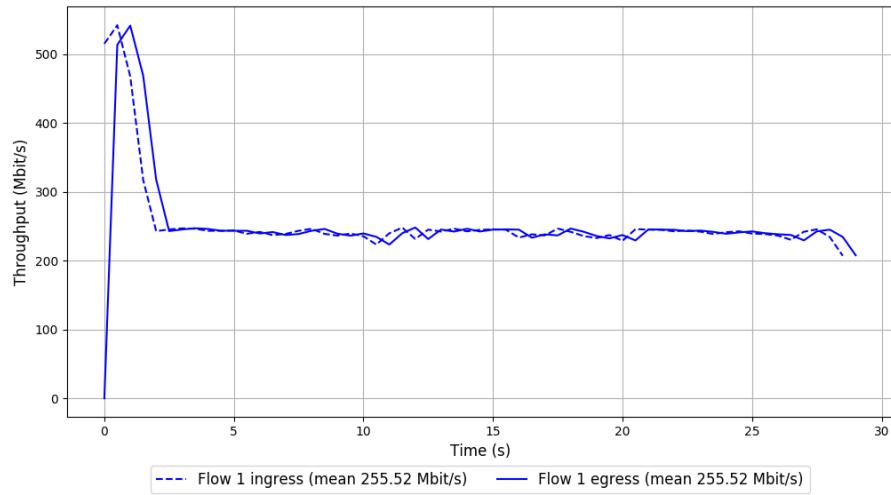


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 04:36:50
End at: 2019-06-27 04:37:20
Local clock offset: -3.176 ms
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 255.52 Mbit/s
95th percentile per-packet one-way delay: 1.080 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 255.52 Mbit/s
95th percentile per-packet one-way delay: 1.080 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC5 — Data Link

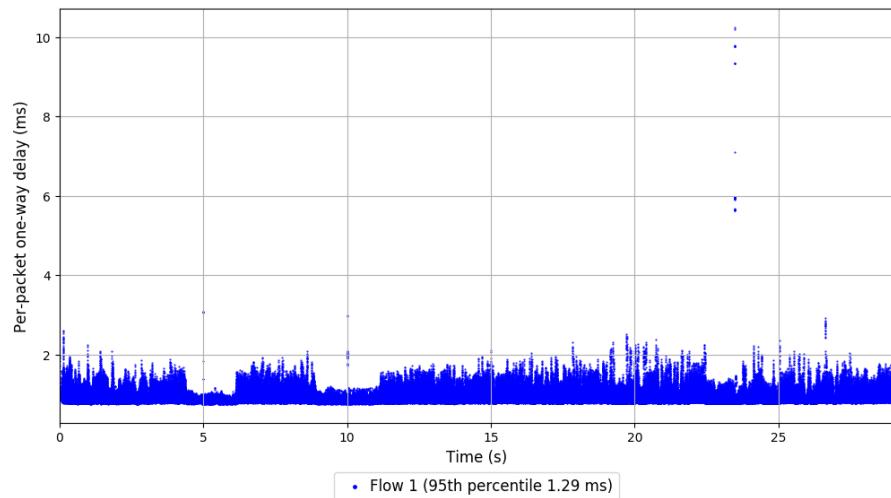
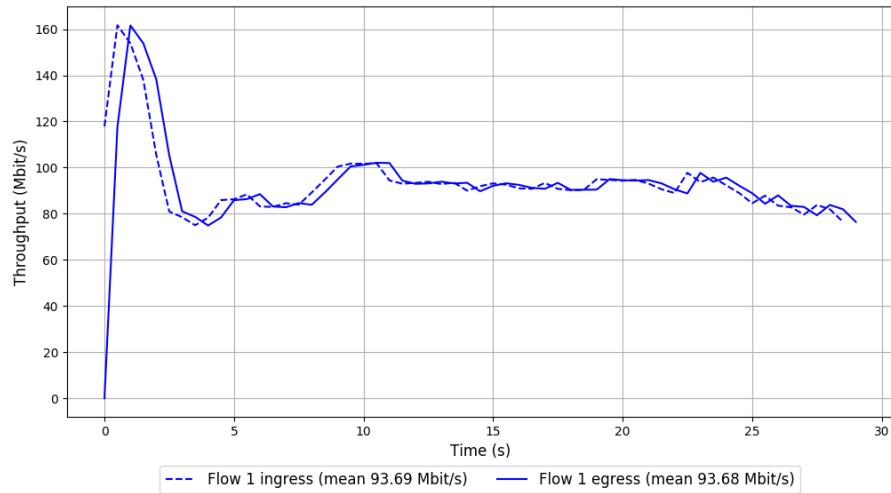


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 02:36:25
End at: 2019-06-27 02:36:55
Local clock offset: -0.736 ms
Remote clock offset: -3.462 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 1.292 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 1.292 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesD — Data Link

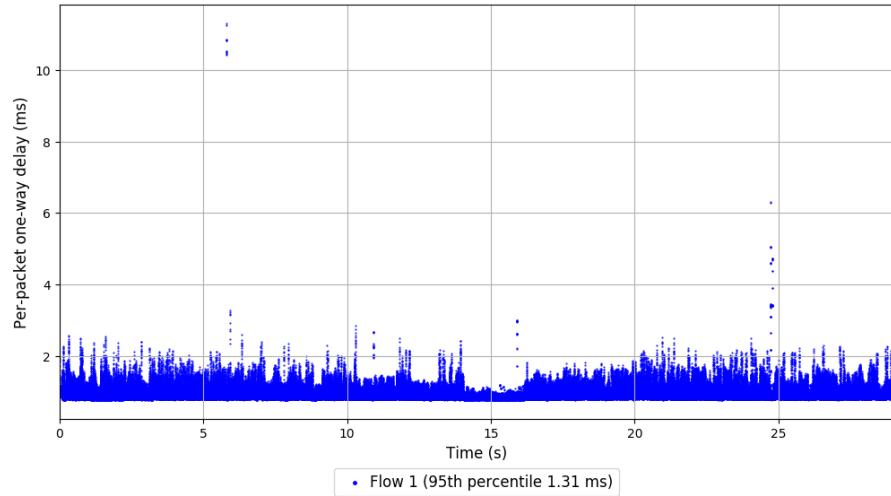
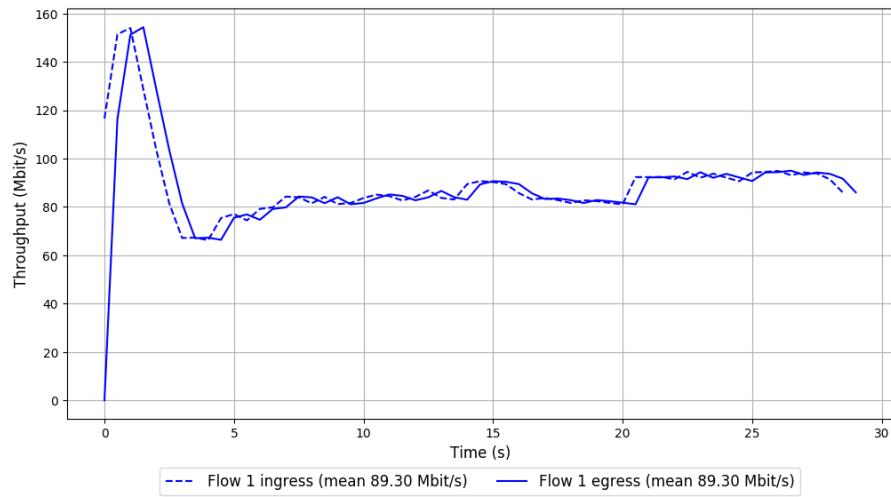


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 03:06:50
End at: 2019-06-27 03:07:20
Local clock offset: 3.061 ms
Remote clock offset: 0.668 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.30 Mbit/s
95th percentile per-packet one-way delay: 1.315 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.30 Mbit/s
95th percentile per-packet one-way delay: 1.315 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesD — Data Link

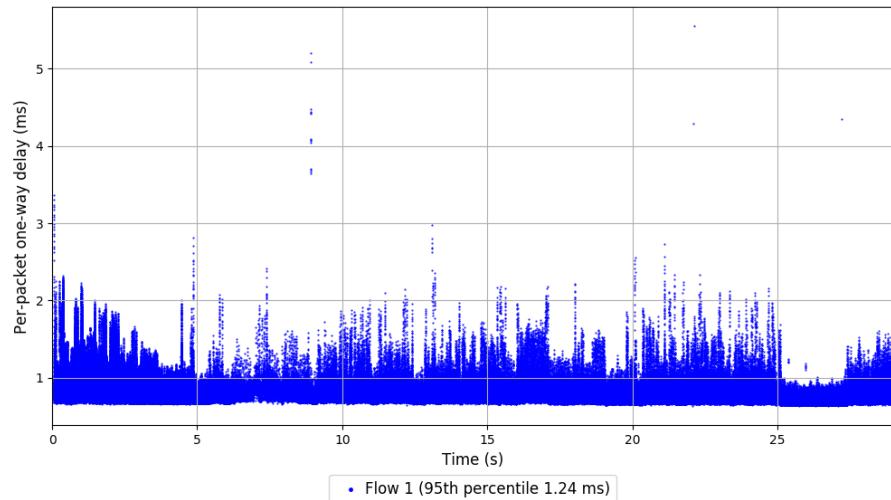
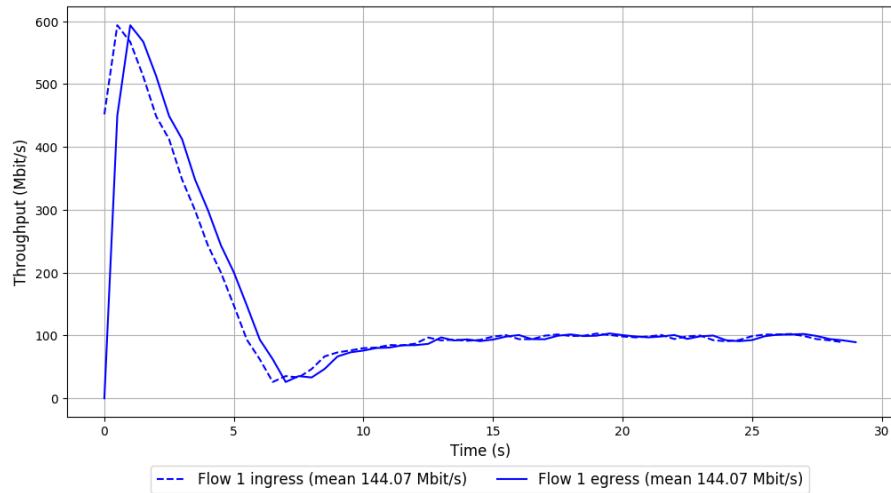


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 03:37:09
End at: 2019-06-27 03:37:39
Local clock offset: -3.03 ms
Remote clock offset: -3.4 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.07 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.07 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesD — Data Link

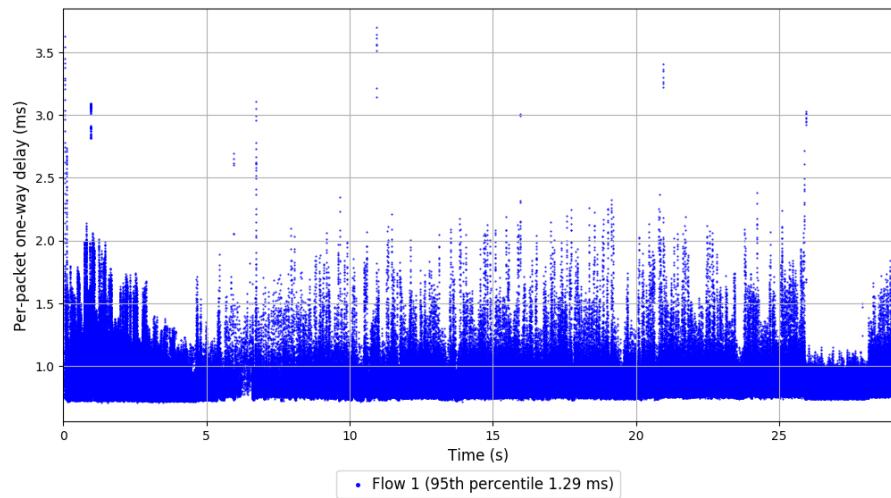
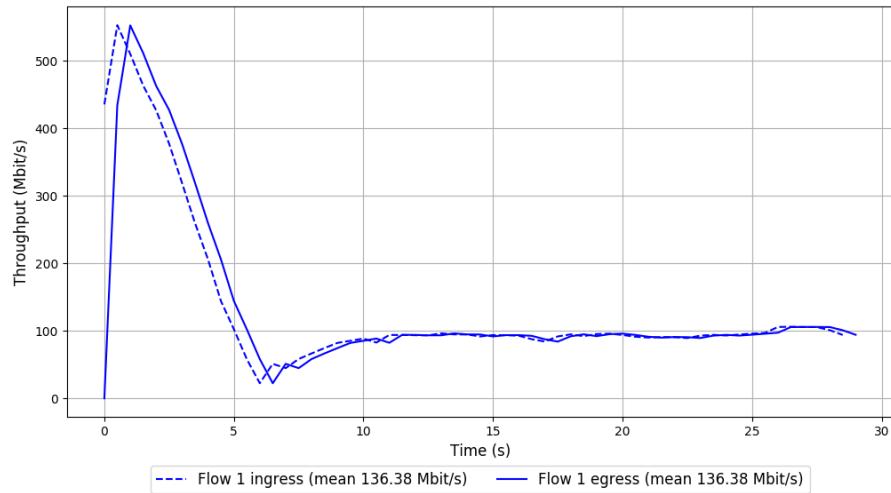


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 04:07:38
End at: 2019-06-27 04:08:08
Local clock offset: -0.4 ms
Remote clock offset: -3.248 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 136.38 Mbit/s
95th percentile per-packet one-way delay: 1.291 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 136.38 Mbit/s
95th percentile per-packet one-way delay: 1.291 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesD — Data Link

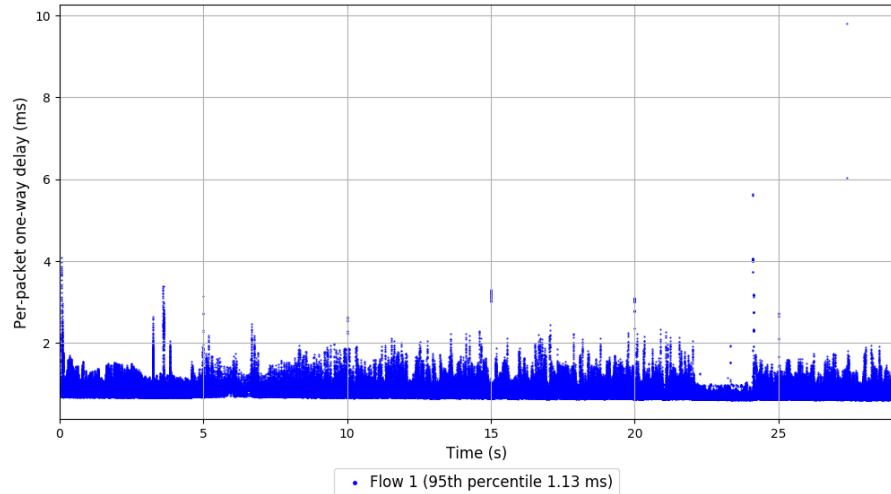
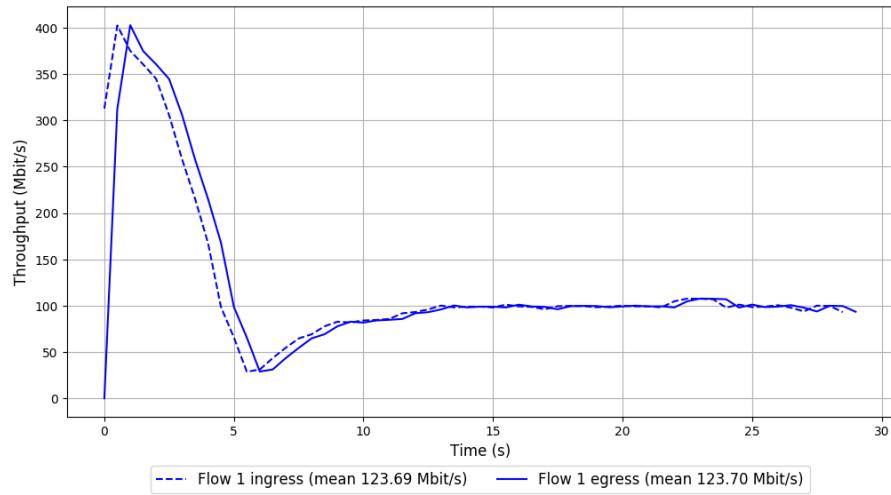


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 04:38:12
End at: 2019-06-27 04:38:42
Local clock offset: -3.3 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 123.70 Mbit/s
95th percentile per-packet one-way delay: 1.133 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 123.70 Mbit/s
95th percentile per-packet one-way delay: 1.133 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesD — Data Link

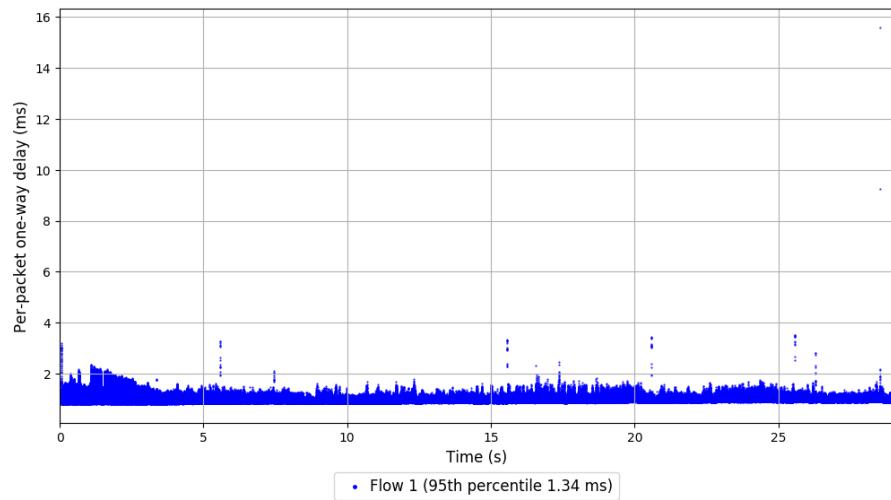
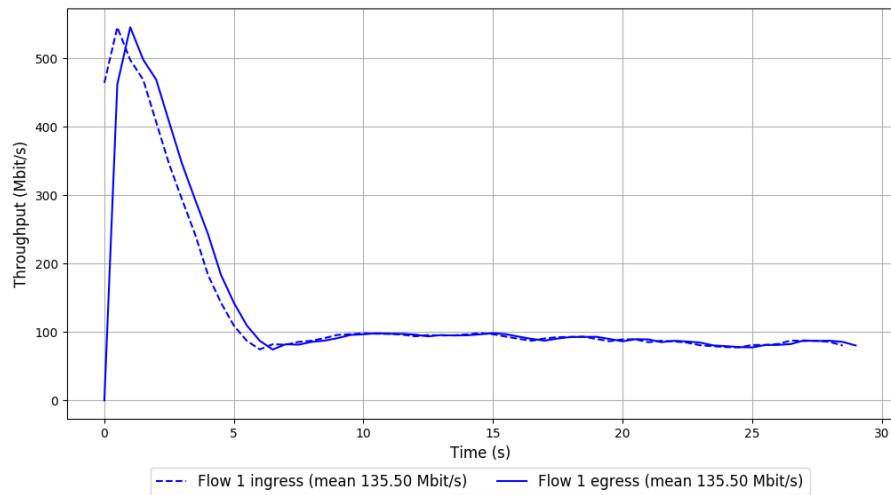


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 02:23:32
End at: 2019-06-27 02:24:02
Local clock offset: -1.038 ms
Remote clock offset: -2.811 ms

# Below is generated by plot.py at 2019-06-27 05:27:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 135.50 Mbit/s
95th percentile per-packet one-way delay: 1.343 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 135.50 Mbit/s
95th percentile per-packet one-way delay: 1.343 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesT — Data Link

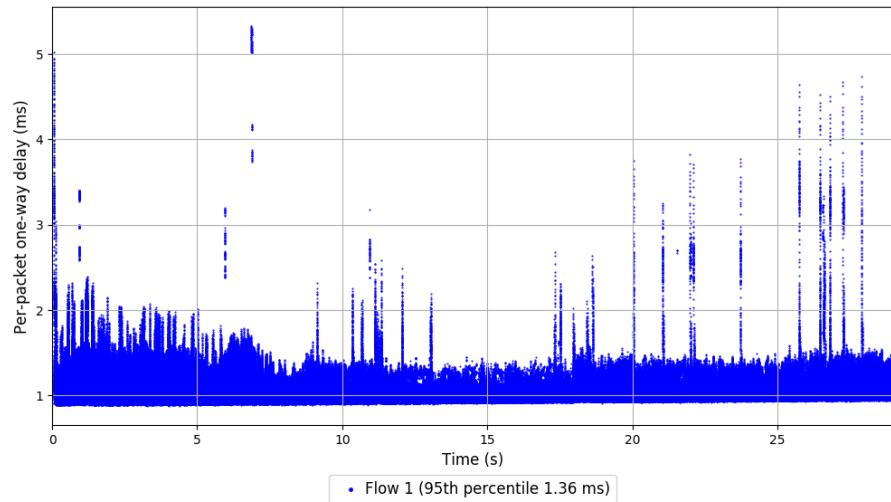
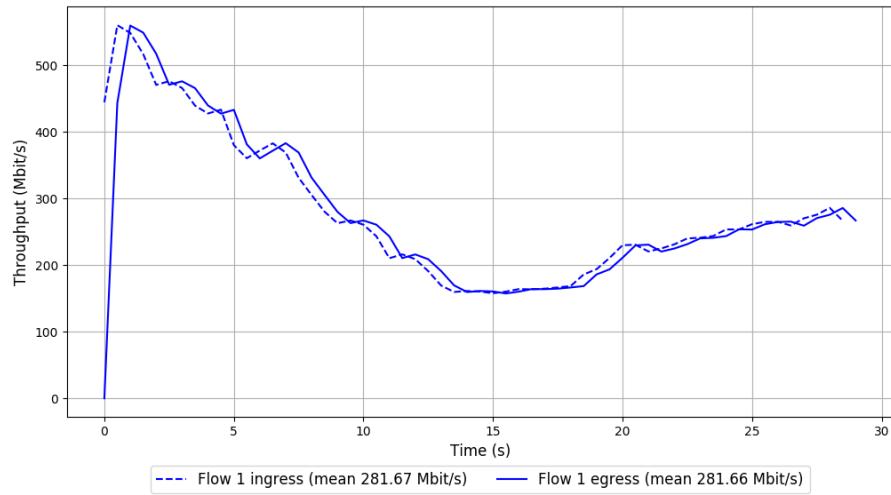


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 02:53:58
End at: 2019-06-27 02:54:28
Local clock offset: 1.001 ms
Remote clock offset: -0.44 ms

# Below is generated by plot.py at 2019-06-27 05:28:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 281.66 Mbit/s
95th percentile per-packet one-way delay: 1.361 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 281.66 Mbit/s
95th percentile per-packet one-way delay: 1.361 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesT — Data Link

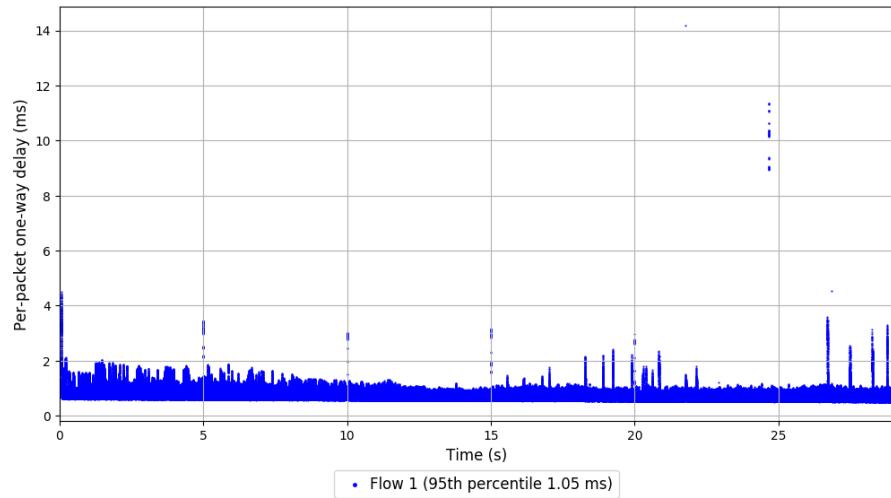
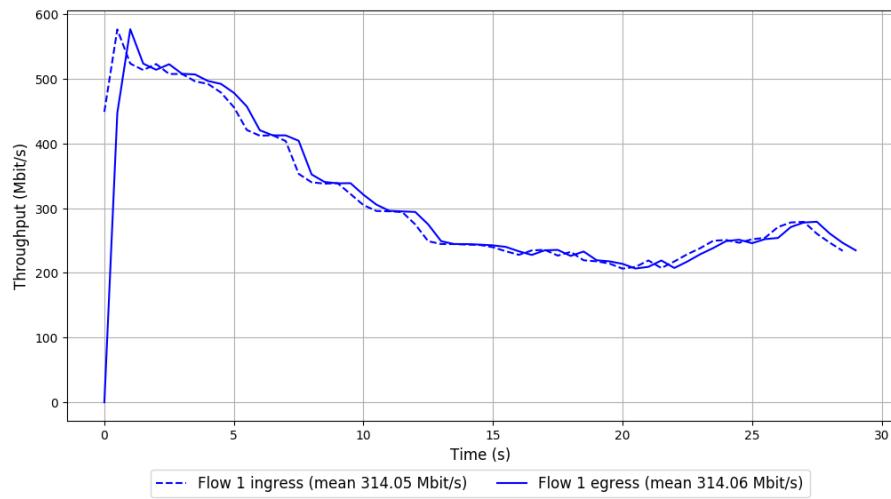


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 03:24:21
End at: 2019-06-27 03:24:51
Local clock offset: 0.282 ms
Remote clock offset: -1.81 ms

# Below is generated by plot.py at 2019-06-27 05:28:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 314.06 Mbit/s
95th percentile per-packet one-way delay: 1.048 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 314.06 Mbit/s
95th percentile per-packet one-way delay: 1.048 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesT — Data Link

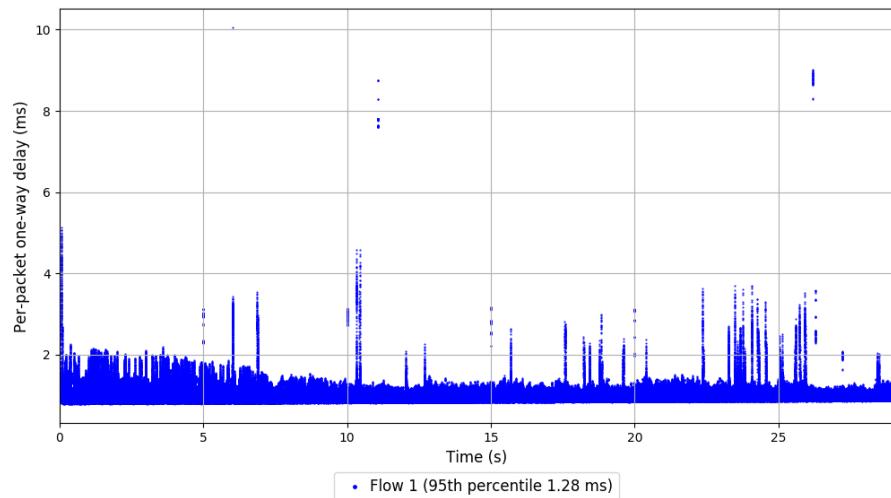
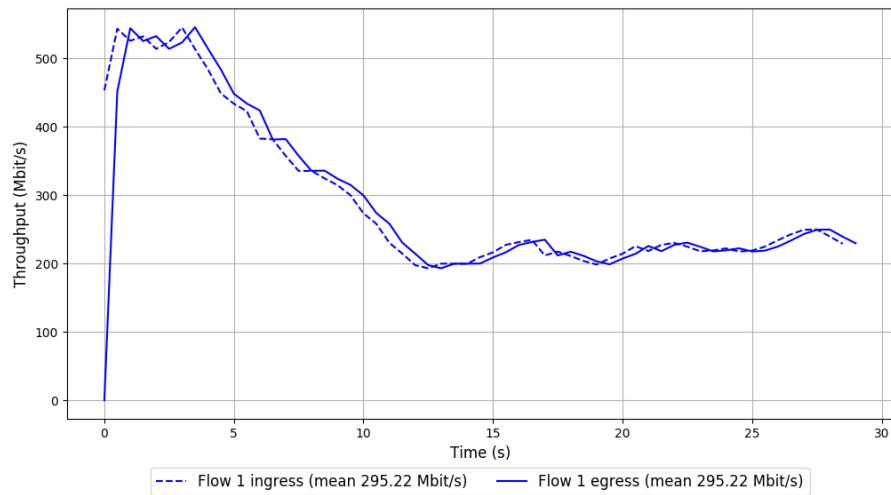


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 03:54:38
End at: 2019-06-27 03:55:08
Local clock offset: -2.083 ms
Remote clock offset: -3.736 ms

# Below is generated by plot.py at 2019-06-27 05:28:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 295.22 Mbit/s
95th percentile per-packet one-way delay: 1.276 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 295.22 Mbit/s
95th percentile per-packet one-way delay: 1.276 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesT — Data Link

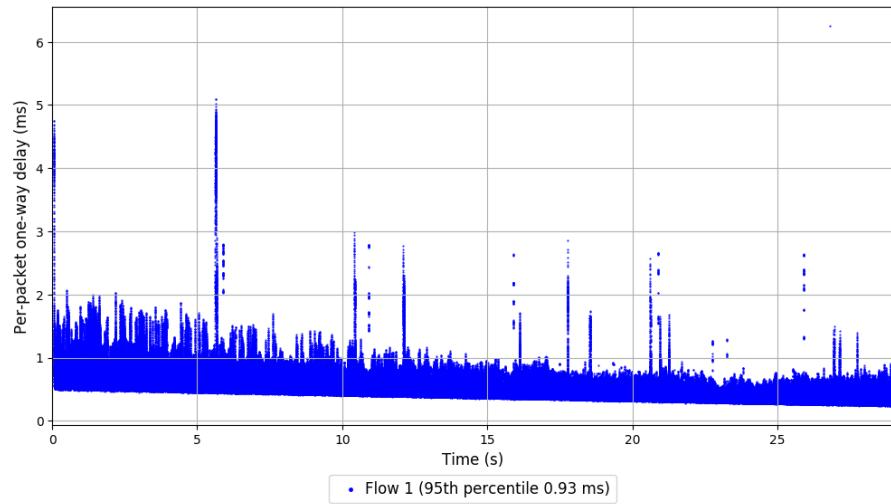
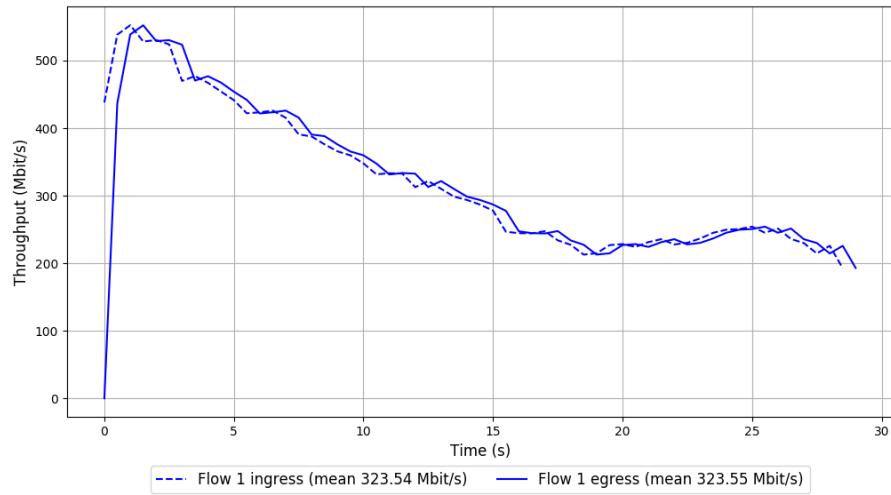


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 04:25:11
End at: 2019-06-27 04:25:41
Local clock offset: -1.82 ms
Remote clock offset: -2.921 ms

# Below is generated by plot.py at 2019-06-27 05:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 323.55 Mbit/s
95th percentile per-packet one-way delay: 0.932 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 323.55 Mbit/s
95th percentile per-packet one-way delay: 0.932 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesT — Data Link

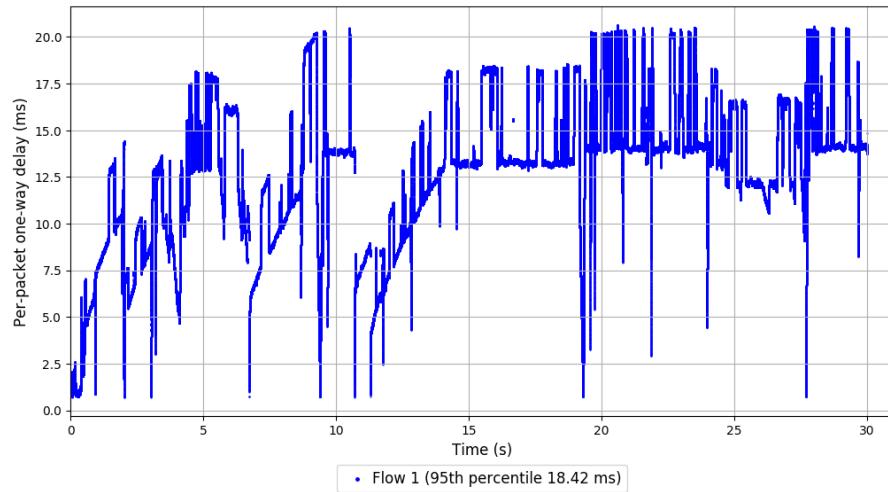
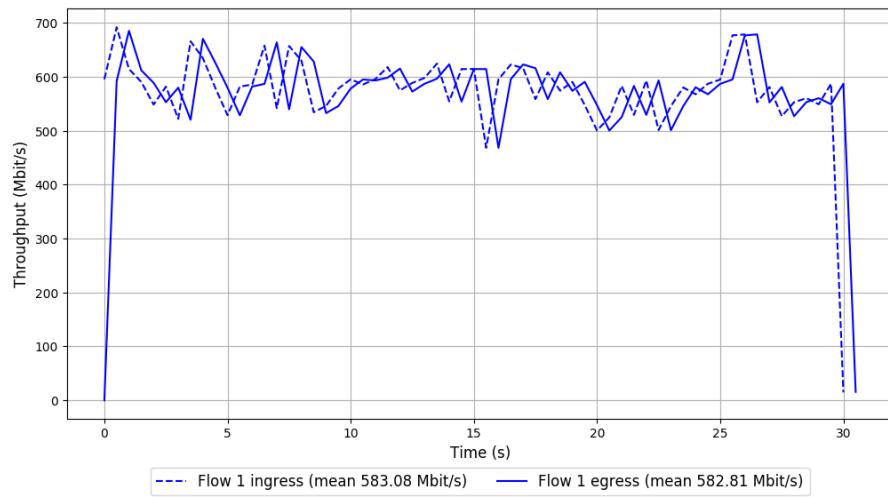


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-06-27 02:30:32
End at: 2019-06-27 02:31:02
Local clock offset: -0.742 ms
Remote clock offset: -3.346 ms

# Below is generated by plot.py at 2019-06-27 05:32:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 582.81 Mbit/s
95th percentile per-packet one-way delay: 18.421 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 582.81 Mbit/s
95th percentile per-packet one-way delay: 18.421 ms
Loss rate: 0.05%
```

Run 1: Report of LEDBAT — Data Link

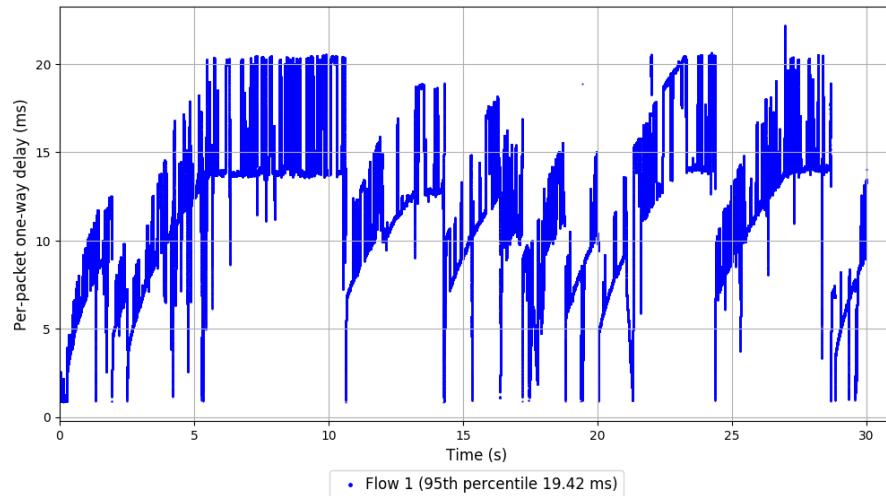
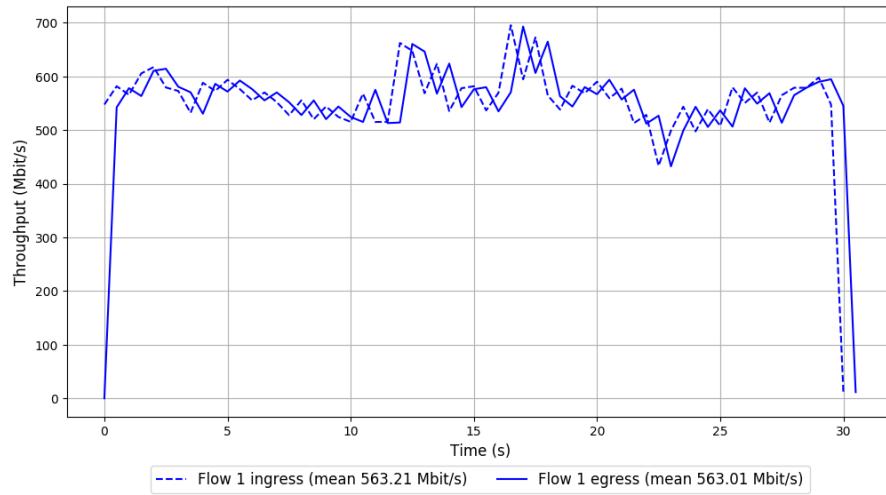


Run 2: Statistics of LEDBAT

```
Start at: 2019-06-27 03:01:02
End at: 2019-06-27 03:01:32
Local clock offset: 2.395 ms
Remote clock offset: 0.308 ms

# Below is generated by plot.py at 2019-06-27 05:32:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 563.01 Mbit/s
95th percentile per-packet one-way delay: 19.416 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 563.01 Mbit/s
95th percentile per-packet one-way delay: 19.416 ms
Loss rate: 0.03%
```

Run 2: Report of LEDBAT — Data Link

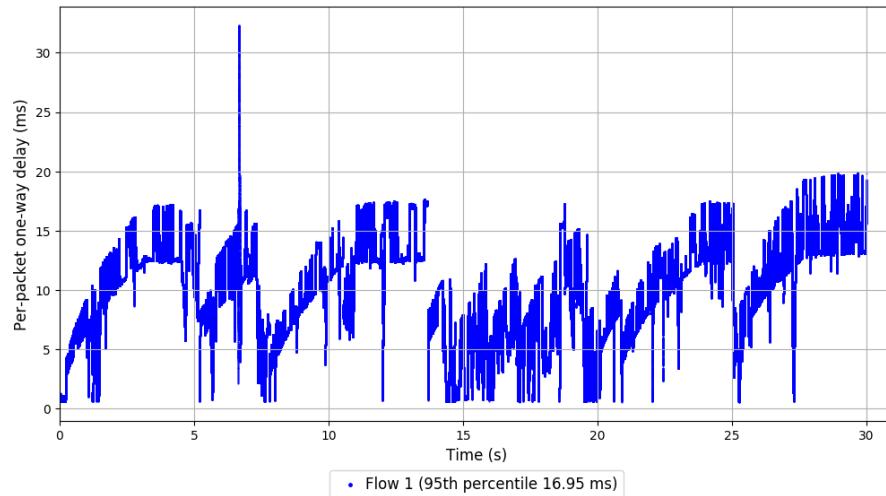
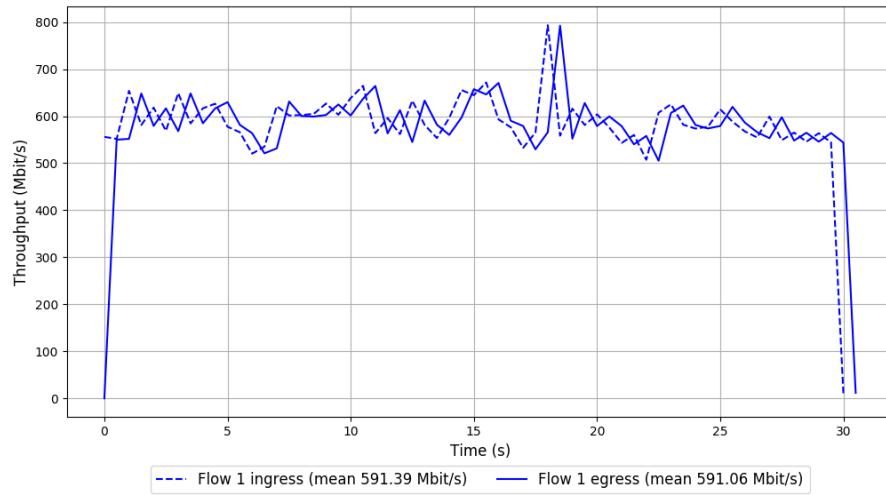


Run 3: Statistics of LEDBAT

```
Start at: 2019-06-27 03:31:18
End at: 2019-06-27 03:31:48
Local clock offset: -1.959 ms
Remote clock offset: -2.893 ms

# Below is generated by plot.py at 2019-06-27 05:34:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 591.06 Mbit/s
95th percentile per-packet one-way delay: 16.945 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 591.06 Mbit/s
95th percentile per-packet one-way delay: 16.945 ms
Loss rate: 0.05%
```

Run 3: Report of LEDBAT — Data Link

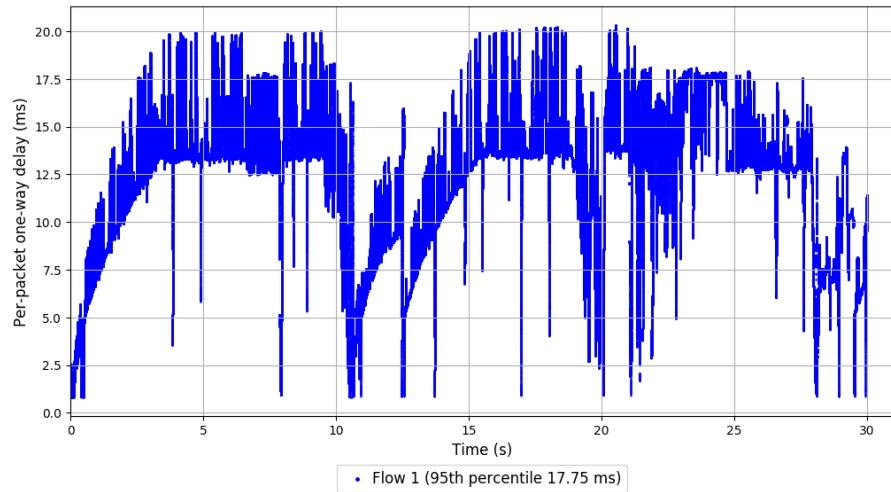
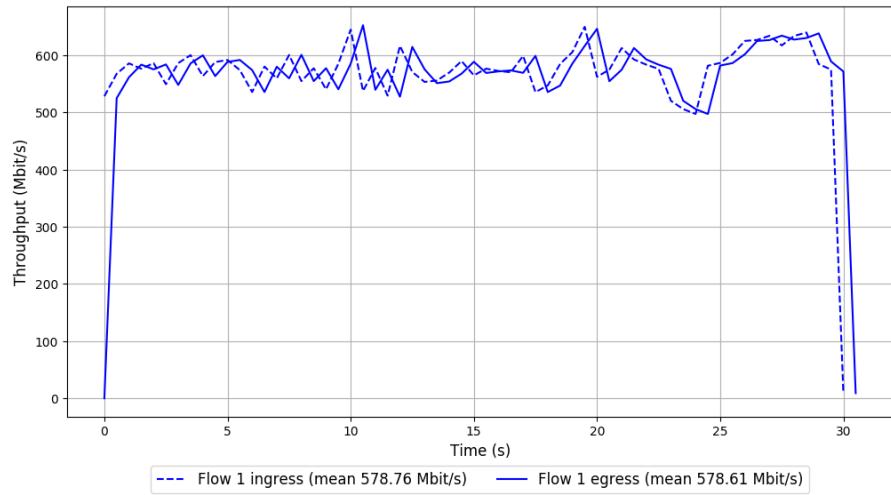


Run 4: Statistics of LEDBAT

```
Start at: 2019-06-27 04:01:41
End at: 2019-06-27 04:02:11
Local clock offset: -0.885 ms
Remote clock offset: -3.346 ms

# Below is generated by plot.py at 2019-06-27 05:34:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 578.61 Mbit/s
95th percentile per-packet one-way delay: 17.750 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 578.61 Mbit/s
95th percentile per-packet one-way delay: 17.750 ms
Loss rate: 0.03%
```

Run 4: Report of LEDBAT — Data Link

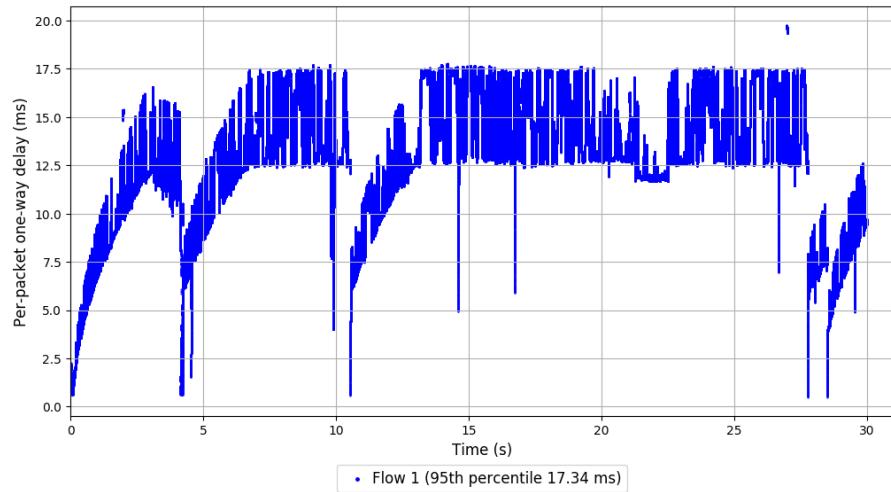
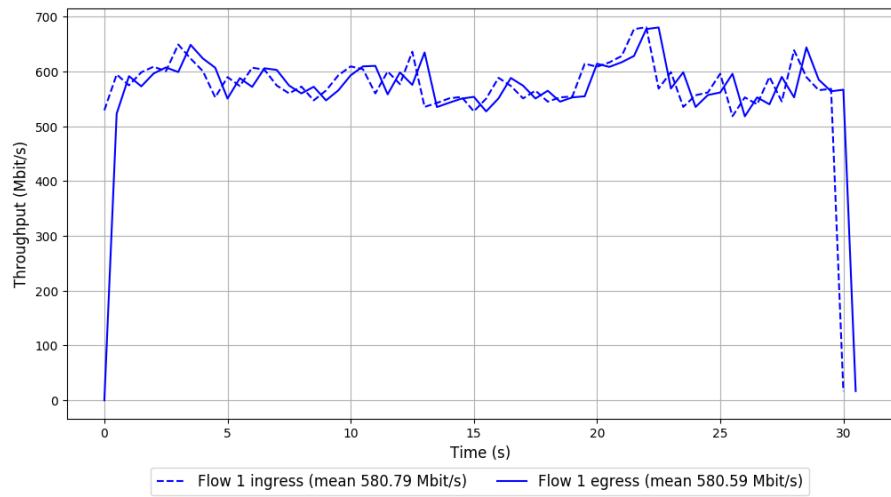


Run 5: Statistics of LEDBAT

```
Start at: 2019-06-27 04:32:15
End at: 2019-06-27 04:32:45
Local clock offset: -2.802 ms
Remote clock offset: -0.966 ms

# Below is generated by plot.py at 2019-06-27 05:35:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 580.59 Mbit/s
95th percentile per-packet one-way delay: 17.343 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 580.59 Mbit/s
95th percentile per-packet one-way delay: 17.343 ms
Loss rate: 0.04%
```

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-06-27 02:37:41

End at: 2019-06-27 02:38:11

Local clock offset: -0.728 ms

Remote clock offset: -3.597 ms

Run 1: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses_DecisionTree

Start at: 2019-06-27 03:08:06

End at: 2019-06-27 03:08:36

Local clock offset: 3.159 ms

Remote clock offset: 0.696 ms

Run 2: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses_DecisionTree

Start at: 2019-06-27 03:38:27

End at: 2019-06-27 03:38:57

Local clock offset: -3.262 ms

Remote clock offset: -3.526 ms

Run 3: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses_DecisionTree

Start at: 2019-06-27 04:08:56
End at: 2019-06-27 04:09:26
Local clock offset: -0.346 ms
Remote clock offset: -3.296 ms

Run 4: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses_DecisionTree

Start at: 2019-06-27 04:39:29

End at: 2019-06-27 04:39:59

Local clock offset: -3.402 ms

Remote clock offset: 0.109 ms

Run 5: Report of Muses_DecisionTree — Data Link

Figure is missing

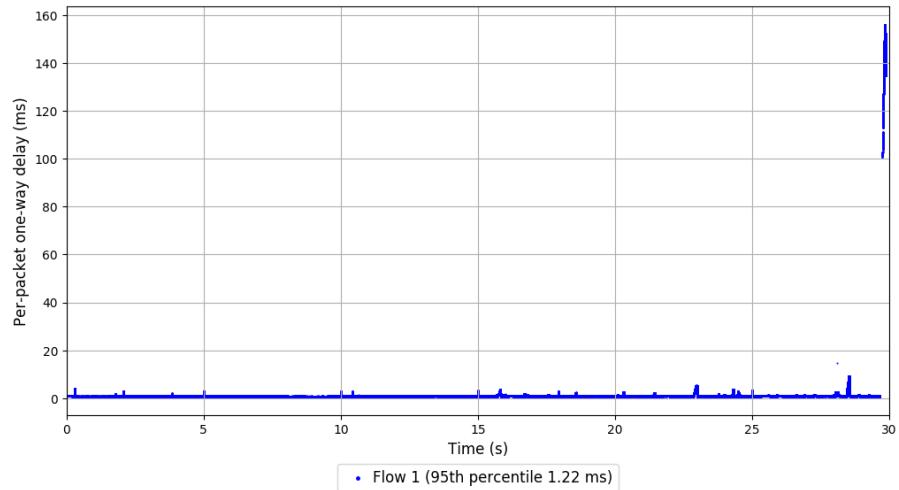
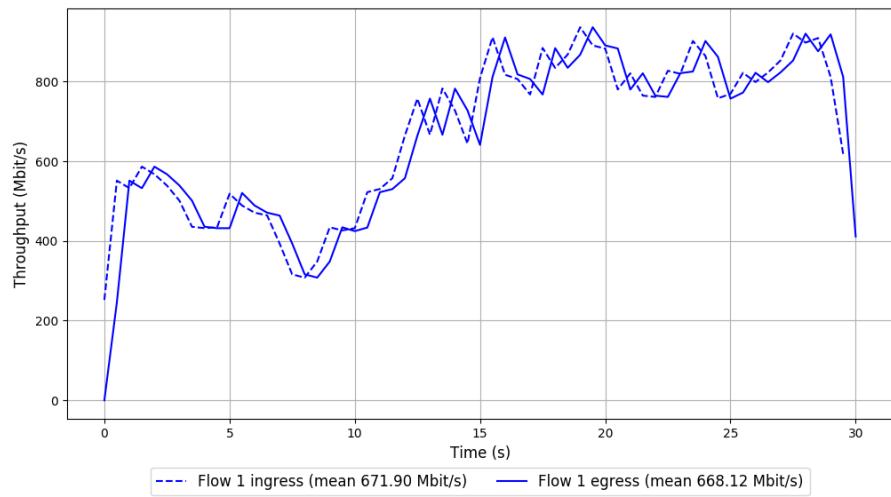
Figure is missing

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

```
Start at: 2019-06-27 02:29:03
End at: 2019-06-27 02:29:33
Local clock offset: -0.759 ms
Remote clock offset: -3.284 ms

# Below is generated by plot.py at 2019-06-27 05:36:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 668.12 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 668.12 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.56%
```

Run 1: Report of PCC-Allegro — Data Link

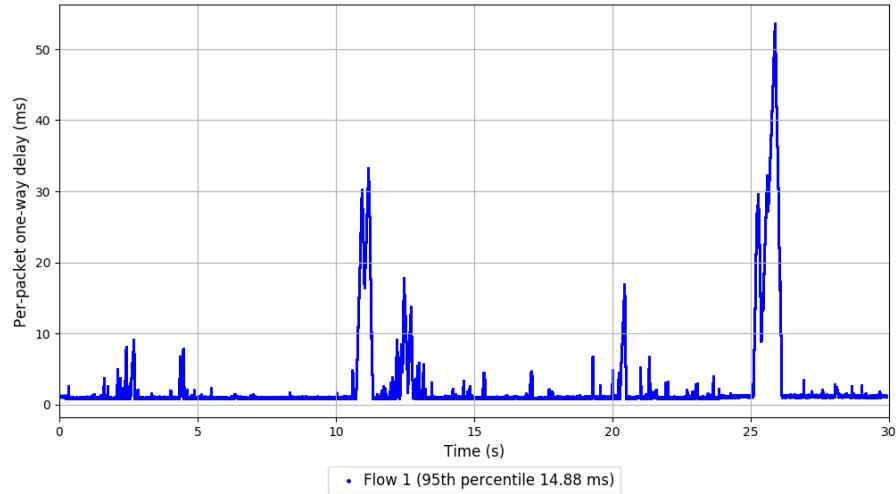
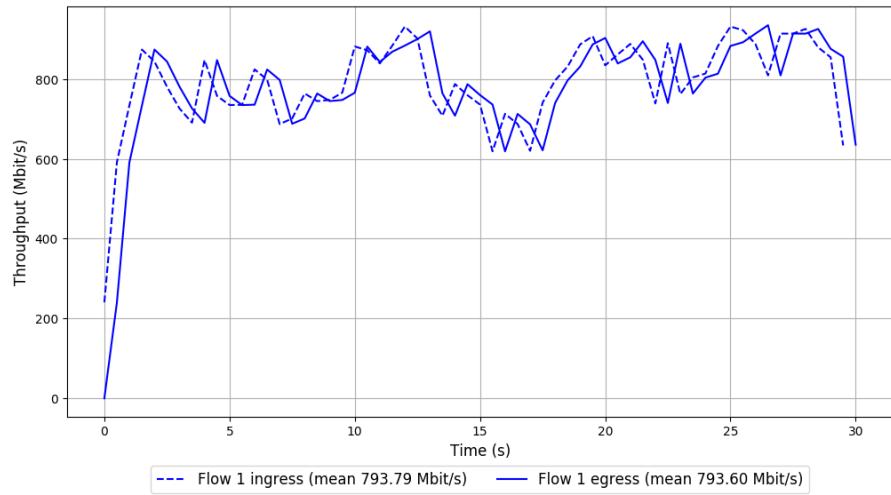


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-06-27 02:59:29
End at: 2019-06-27 02:59:59
Local clock offset: 2.188 ms
Remote clock offset: 0.145 ms

# Below is generated by plot.py at 2019-06-27 05:38:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 793.60 Mbit/s
95th percentile per-packet one-way delay: 14.882 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 793.60 Mbit/s
95th percentile per-packet one-way delay: 14.882 ms
Loss rate: 0.02%
```

Run 2: Report of PCC-Allegro — Data Link

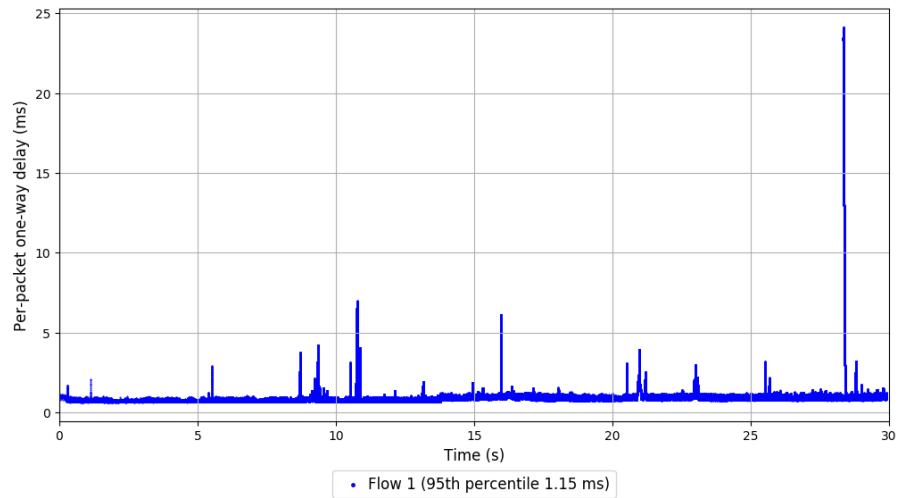
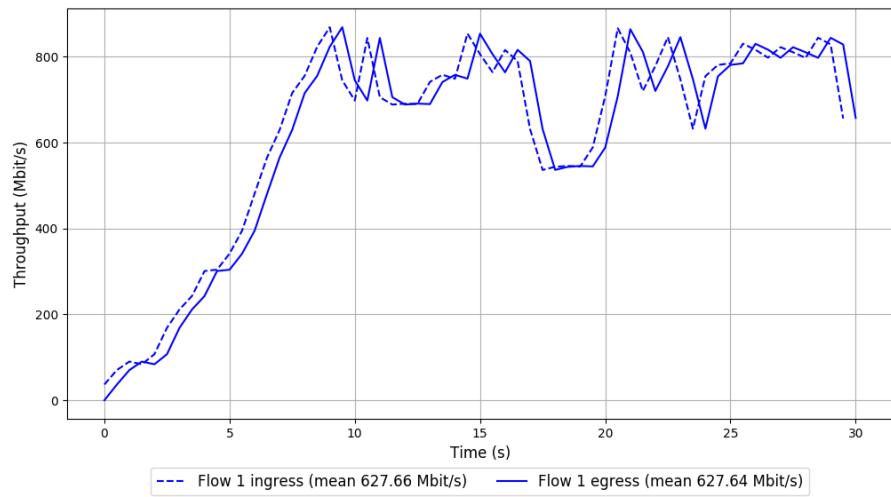


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-06-27 03:29:50
End at: 2019-06-27 03:30:20
Local clock offset: -1.59 ms
Remote clock offset: -2.689 ms

# Below is generated by plot.py at 2019-06-27 05:38:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 627.64 Mbit/s
95th percentile per-packet one-way delay: 1.149 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 627.64 Mbit/s
95th percentile per-packet one-way delay: 1.149 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Allegro — Data Link

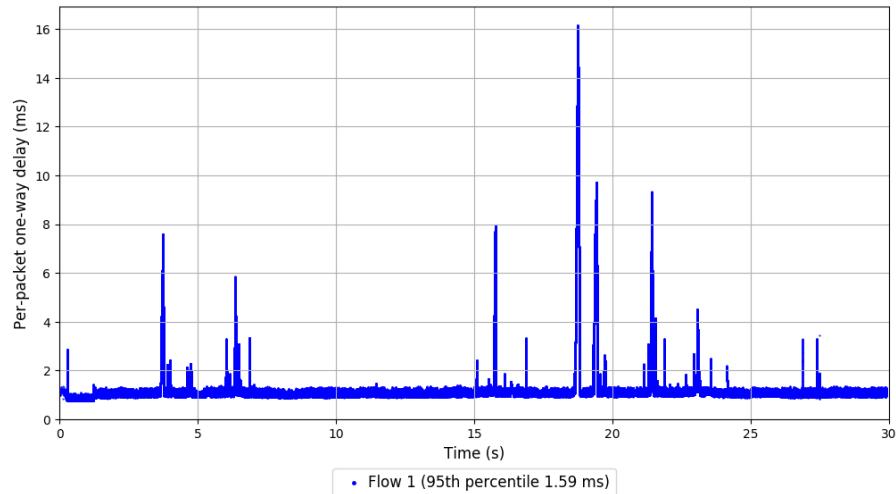
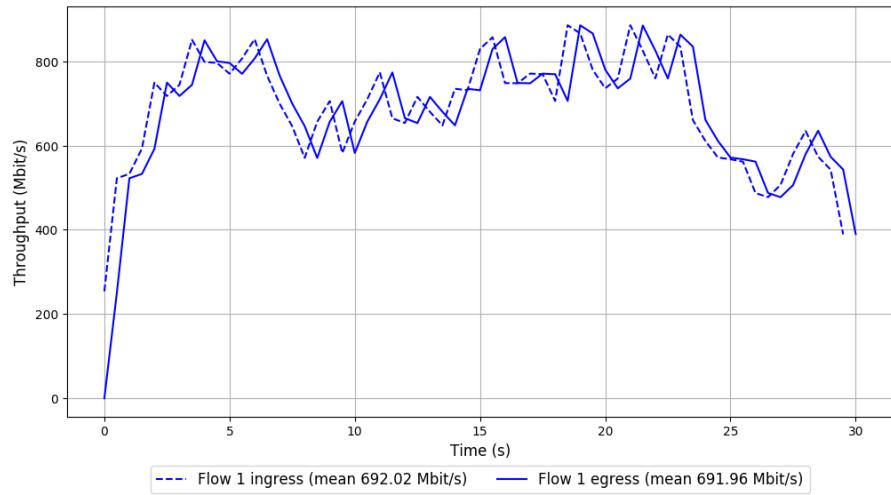


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-06-27 04:00:11
End at: 2019-06-27 04:00:41
Local clock offset: -1.064 ms
Remote clock offset: -3.412 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 691.96 Mbit/s
95th percentile per-packet one-way delay: 1.595 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 691.96 Mbit/s
95th percentile per-packet one-way delay: 1.595 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Allegro — Data Link

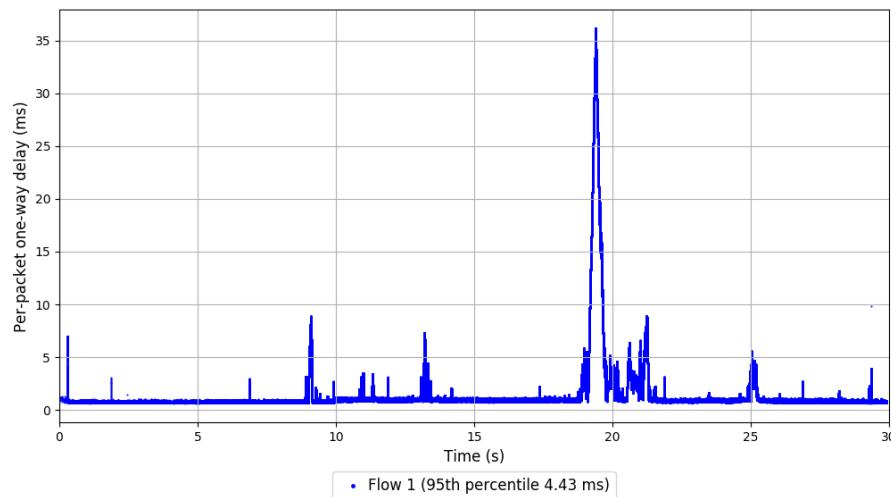
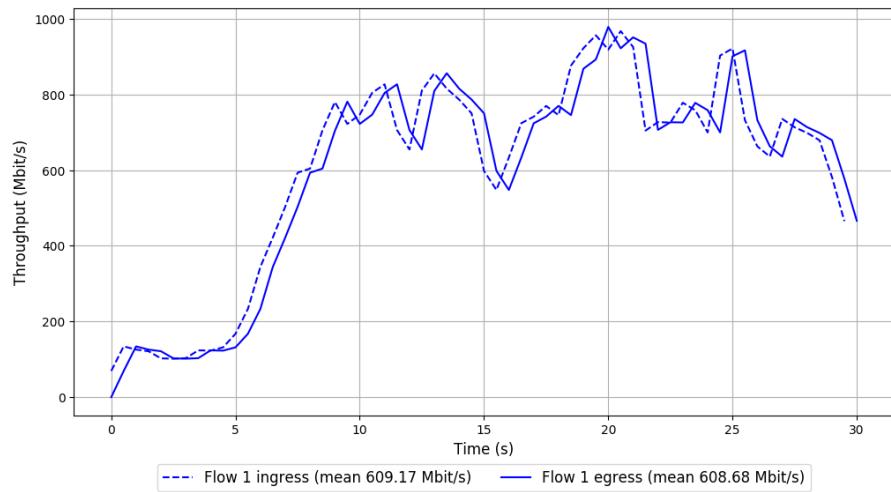


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-06-27 04:30:47
End at: 2019-06-27 04:31:18
Local clock offset: -2.621 ms
Remote clock offset: -1.181 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 608.68 Mbit/s
95th percentile per-packet one-way delay: 4.428 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 608.68 Mbit/s
95th percentile per-packet one-way delay: 4.428 ms
Loss rate: 0.08%
```

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

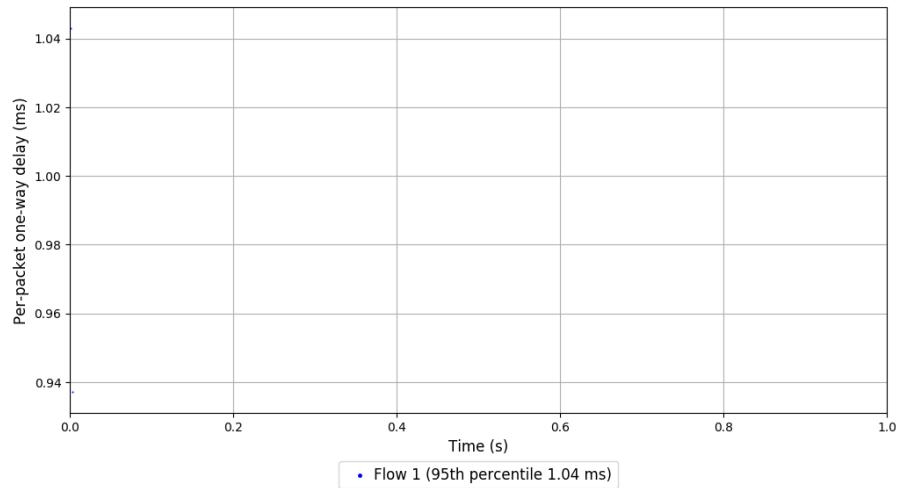
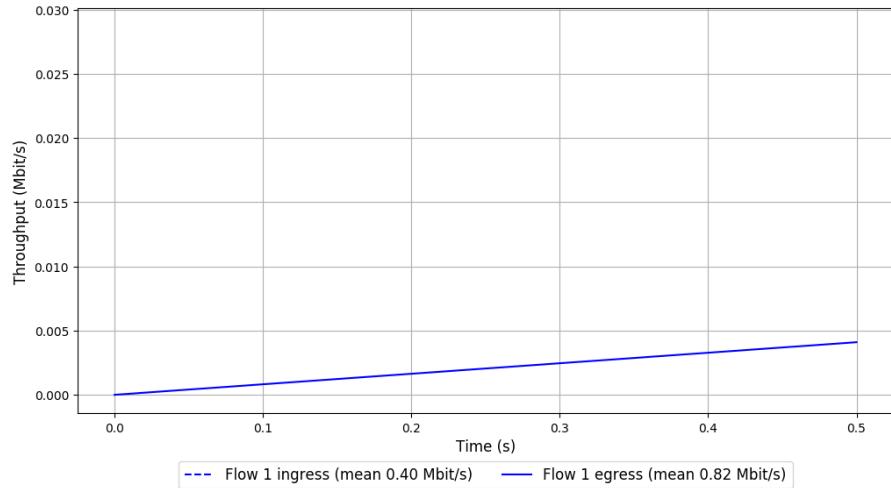
Start at: 2019-06-27 02:16:33

End at: 2019-06-27 02:17:03

Local clock offset: -1.521 ms

Remote clock offset: -2.12 ms

Run 1: Report of PCC-Expr — Data Link

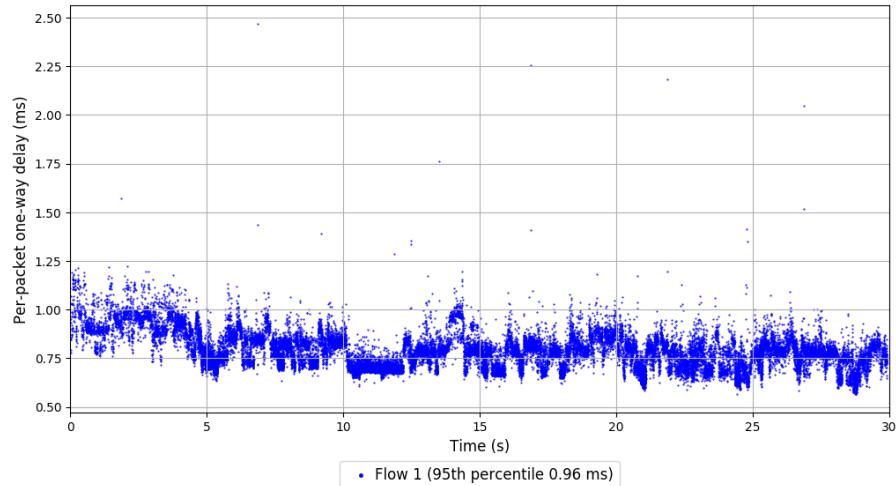
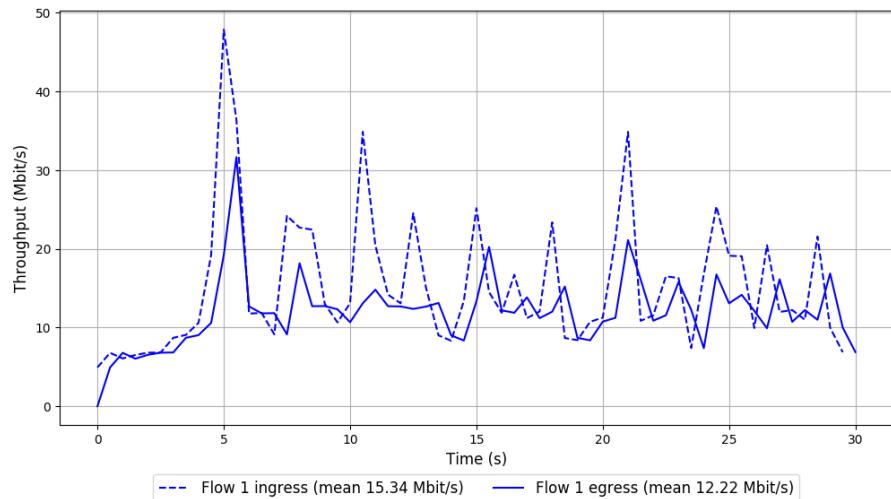


Run 2: Statistics of PCC-Expr

```
Start at: 2019-06-27 02:46:55
End at: 2019-06-27 02:47:25
Local clock offset: -0.933 ms
Remote clock offset: -1.741 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.22 Mbit/s
95th percentile per-packet one-way delay: 0.956 ms
Loss rate: 20.32%
-- Flow 1:
Average throughput: 12.22 Mbit/s
95th percentile per-packet one-way delay: 0.956 ms
Loss rate: 20.32%
```

Run 2: Report of PCC-Expr — Data Link

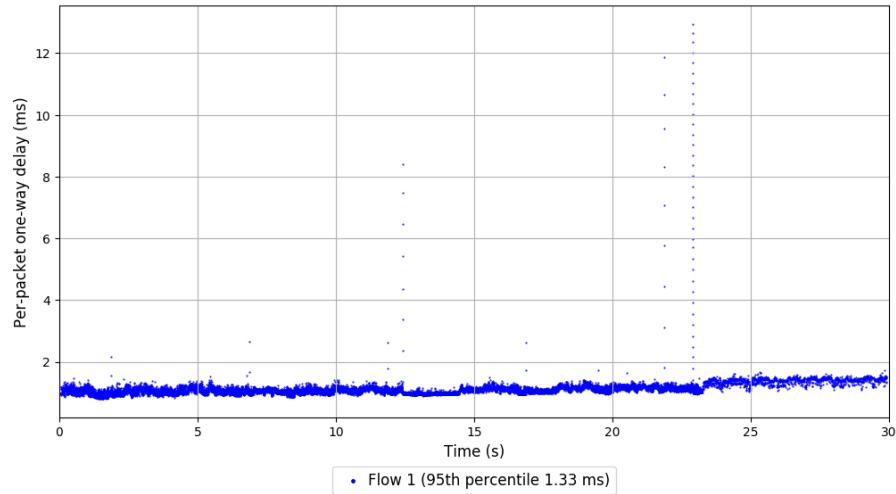
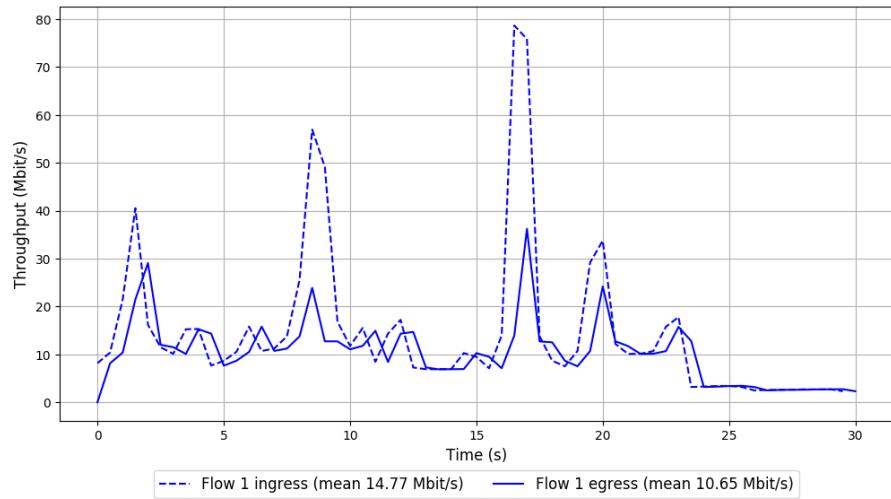


Run 3: Statistics of PCC-Expr

```
Start at: 2019-06-27 03:17:22
End at: 2019-06-27 03:17:52
Local clock offset: 3.73 ms
Remote clock offset: 0.126 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.65 Mbit/s
95th percentile per-packet one-way delay: 1.334 ms
Loss rate: 27.89%
-- Flow 1:
Average throughput: 10.65 Mbit/s
95th percentile per-packet one-way delay: 1.334 ms
Loss rate: 27.89%
```

Run 3: Report of PCC-Expr — Data Link

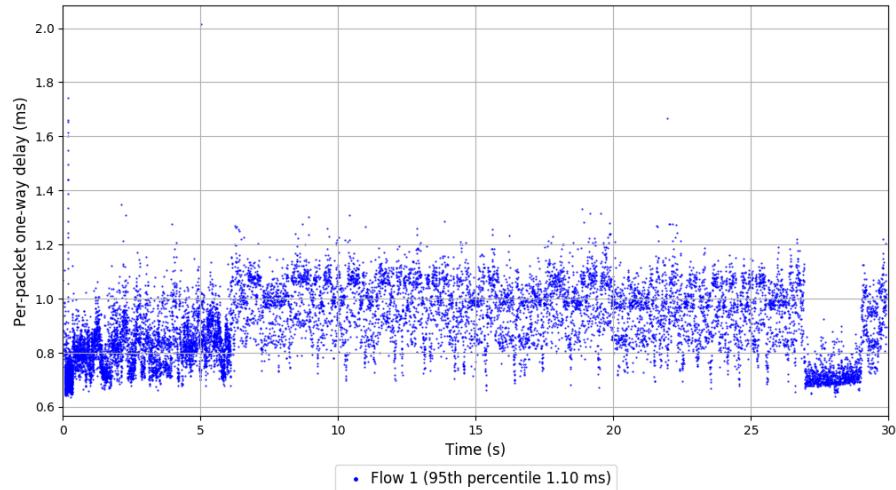
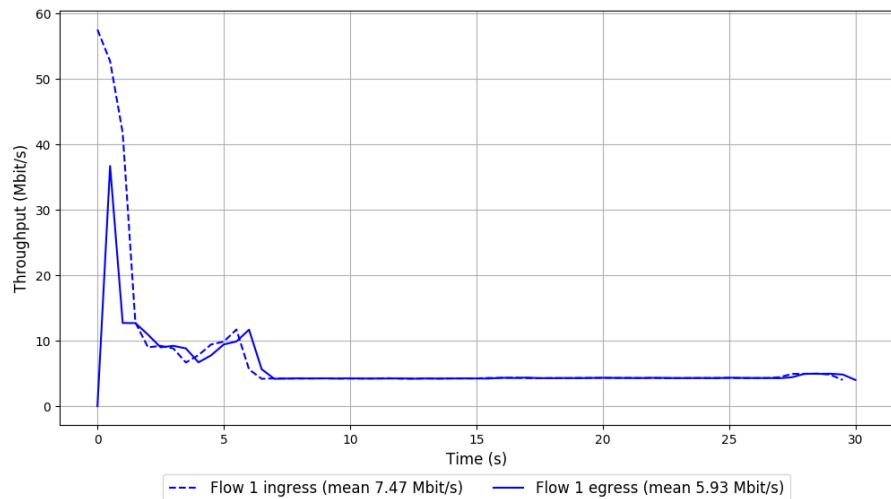


Run 4: Statistics of PCC-Expr

```
Start at: 2019-06-27 03:47:38
End at: 2019-06-27 03:48:08
Local clock offset: -4.284 ms
Remote clock offset: -4.201 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.93 Mbit/s
95th percentile per-packet one-way delay: 1.096 ms
Loss rate: 20.54%
-- Flow 1:
Average throughput: 5.93 Mbit/s
95th percentile per-packet one-way delay: 1.096 ms
Loss rate: 20.54%
```

Run 4: Report of PCC-Expr — Data Link

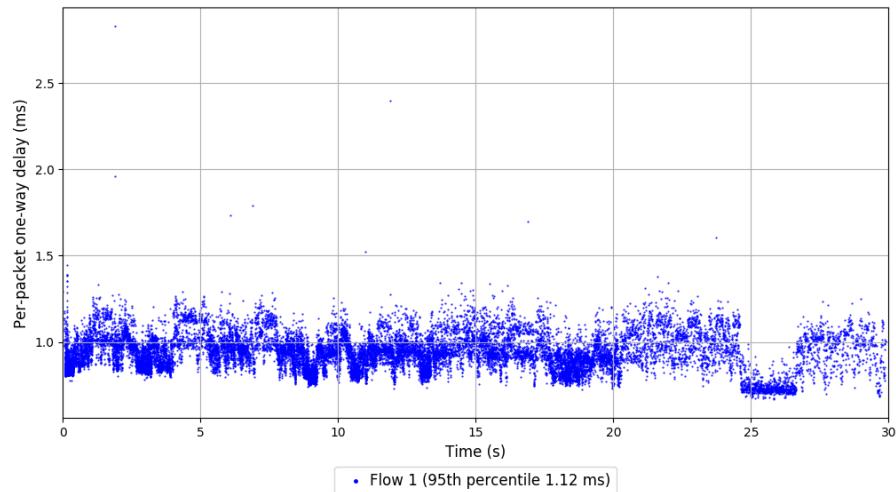
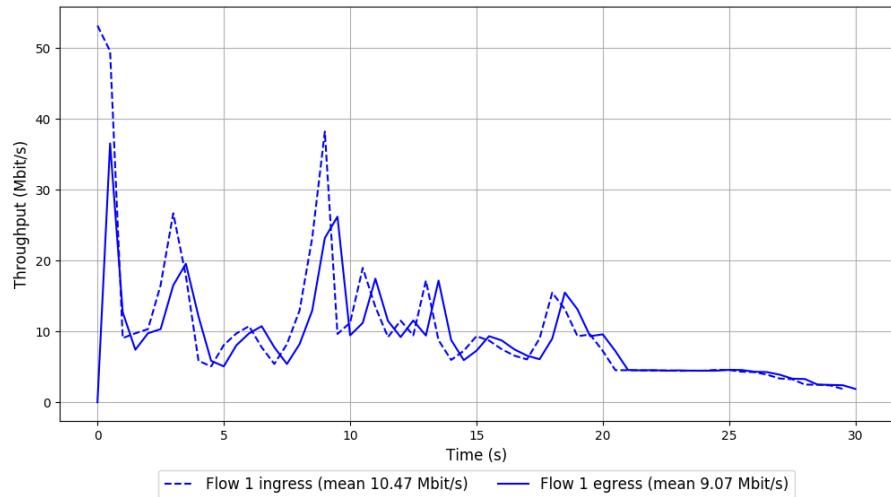


Run 5: Statistics of PCC-Expr

```
Start at: 2019-06-27 04:18:10
End at: 2019-06-27 04:18:40
Local clock offset: -0.134 ms
Remote clock offset: -3.306 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.07 Mbit/s
95th percentile per-packet one-way delay: 1.121 ms
Loss rate: 13.39%
-- Flow 1:
Average throughput: 9.07 Mbit/s
95th percentile per-packet one-way delay: 1.121 ms
Loss rate: 13.39%
```

Run 5: Report of PCC-Expr — Data Link

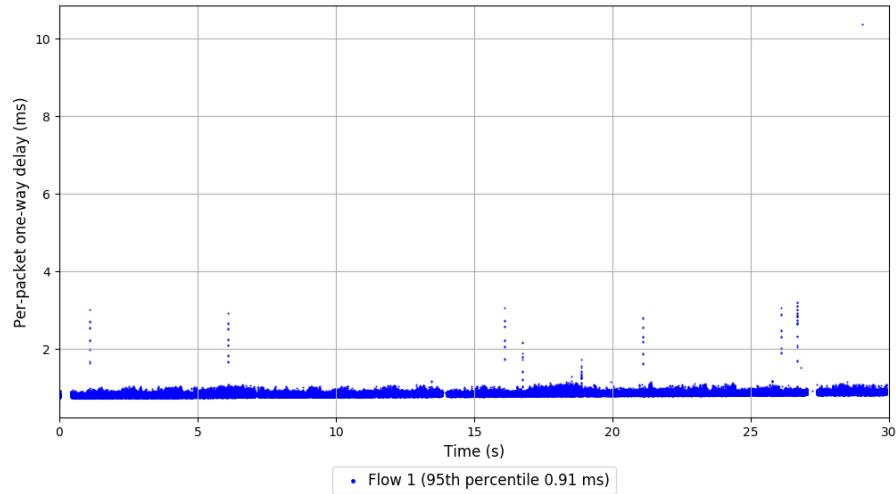
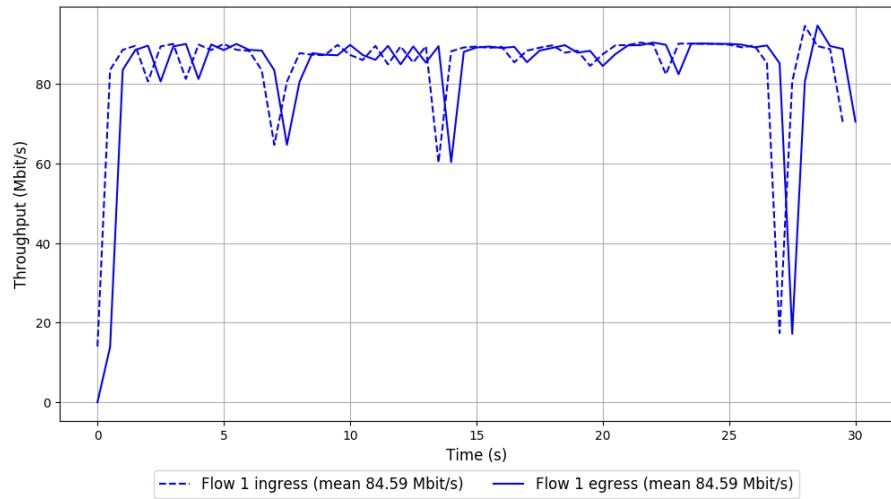


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-06-27 02:22:16
End at: 2019-06-27 02:22:46
Local clock offset: -1.157 ms
Remote clock offset: -2.807 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.59 Mbit/s
95th percentile per-packet one-way delay: 0.906 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.59 Mbit/s
95th percentile per-packet one-way delay: 0.906 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link

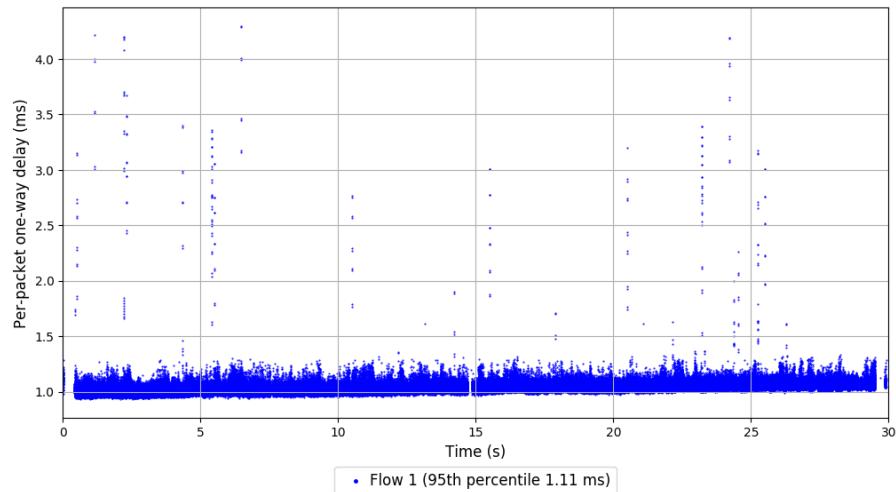
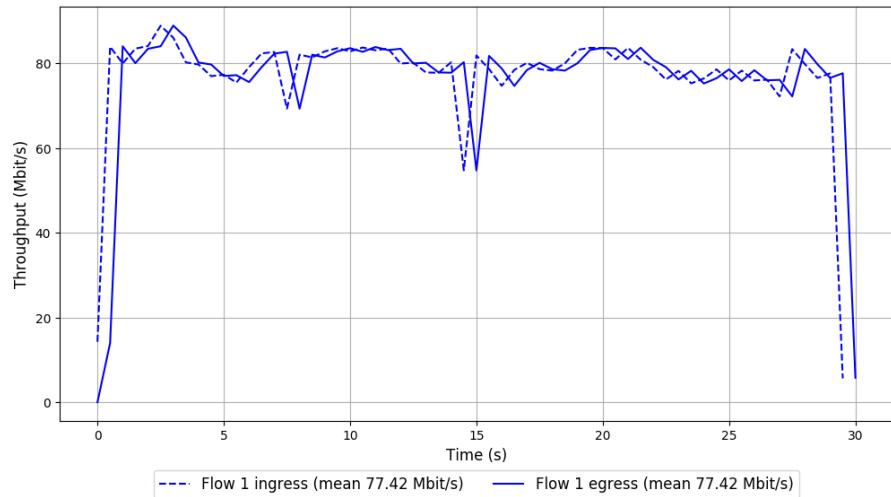


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-06-27 02:52:42
End at: 2019-06-27 02:53:12
Local clock offset: 0.612 ms
Remote clock offset: -0.6 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.42 Mbit/s
95th percentile per-packet one-way delay: 1.115 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.42 Mbit/s
95th percentile per-packet one-way delay: 1.115 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

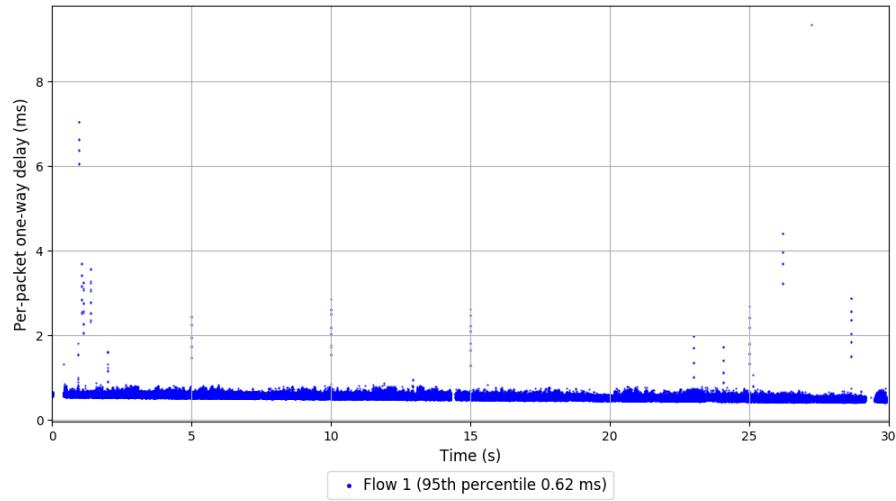
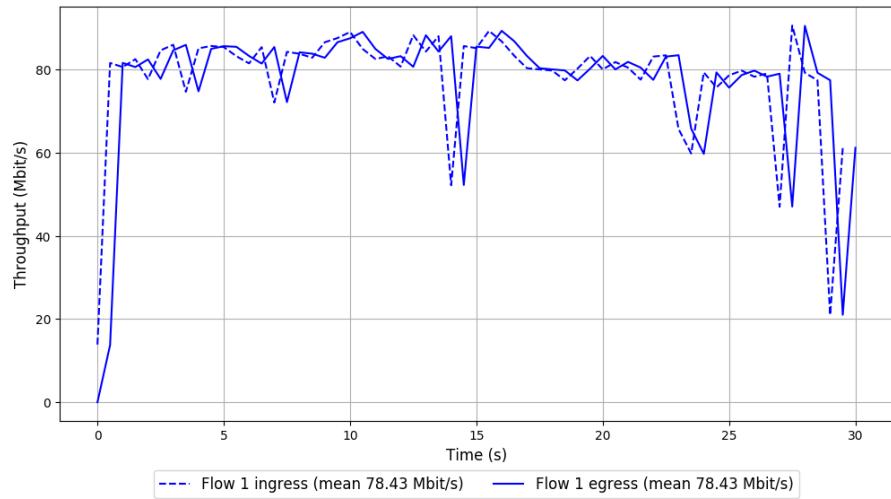


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-06-27 03:23:05
End at: 2019-06-27 03:23:35
Local clock offset: 0.861 ms
Remote clock offset: -1.594 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.43 Mbit/s
95th percentile per-packet one-way delay: 0.622 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.43 Mbit/s
95th percentile per-packet one-way delay: 0.622 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

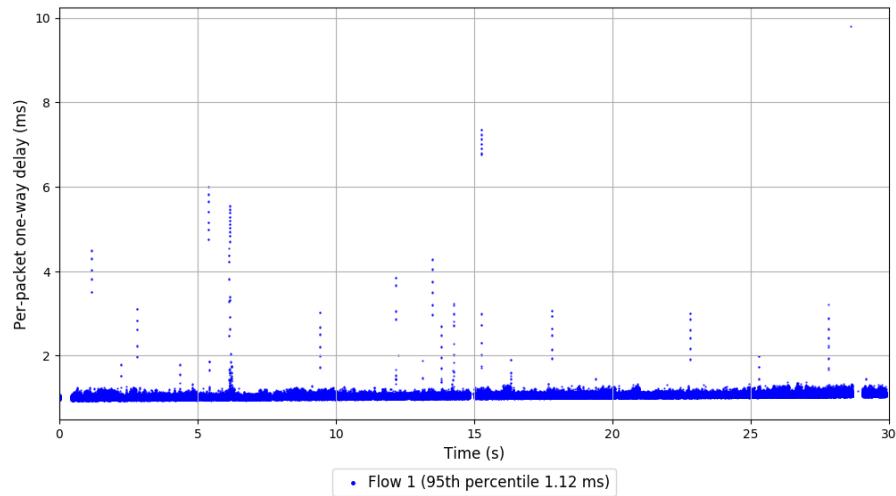
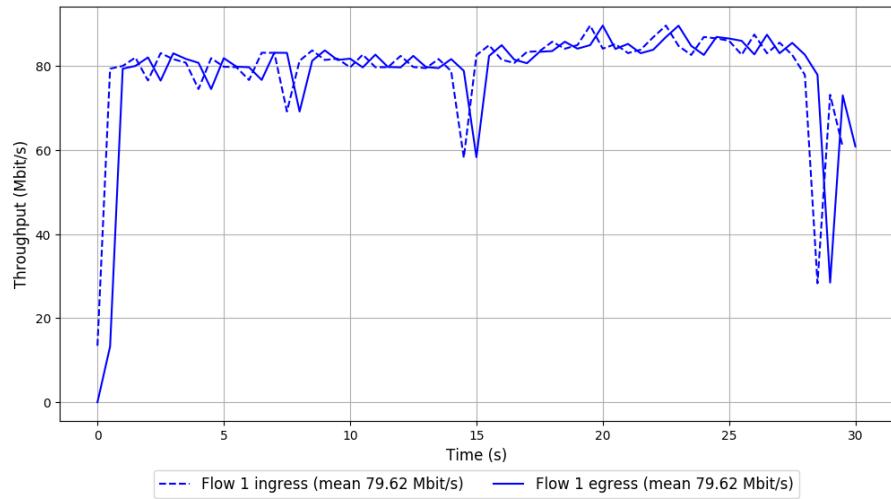


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-06-27 03:53:21
End at: 2019-06-27 03:53:52
Local clock offset: -2.497 ms
Remote clock offset: -3.791 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.62 Mbit/s
95th percentile per-packet one-way delay: 1.123 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.62 Mbit/s
95th percentile per-packet one-way delay: 1.123 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

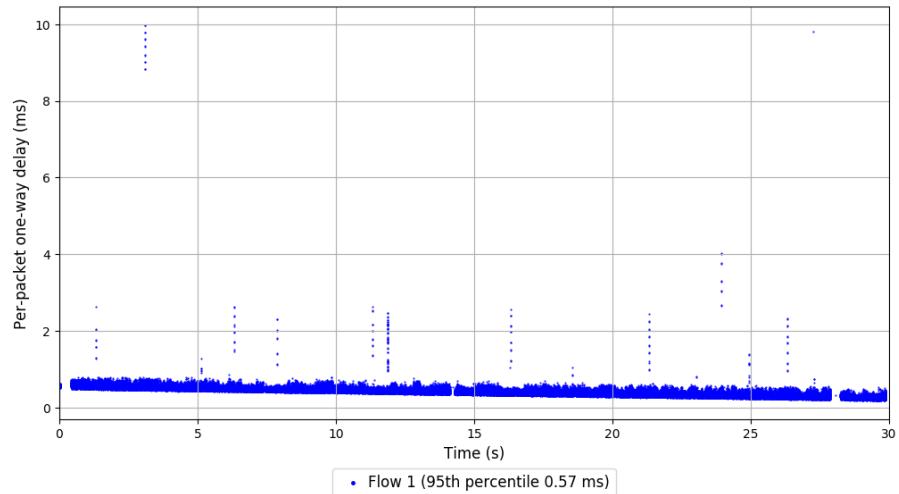
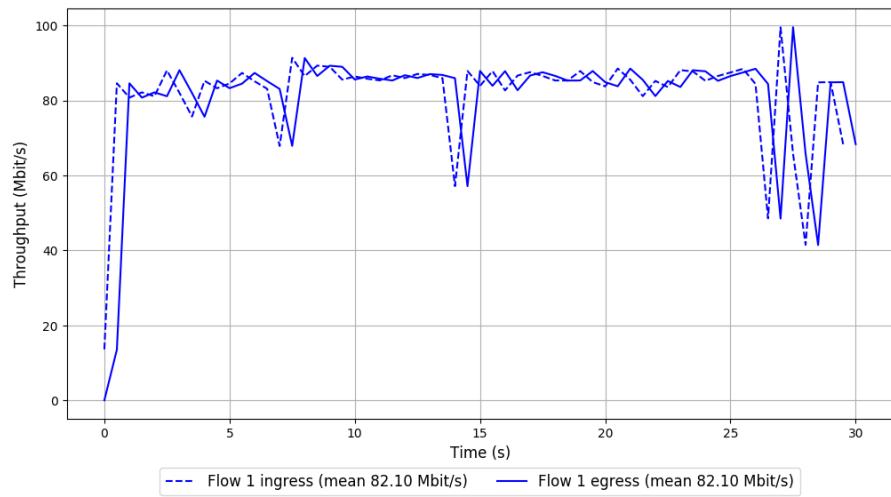


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-06-27 04:23:55
End at: 2019-06-27 04:24:25
Local clock offset: -1.512 ms
Remote clock offset: -3.377 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.10 Mbit/s
95th percentile per-packet one-way delay: 0.566 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 82.10 Mbit/s
95th percentile per-packet one-way delay: 0.566 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

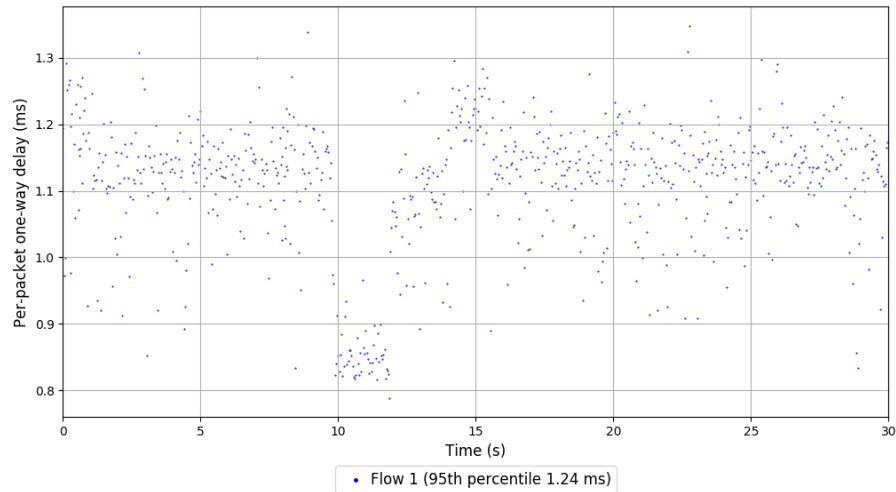
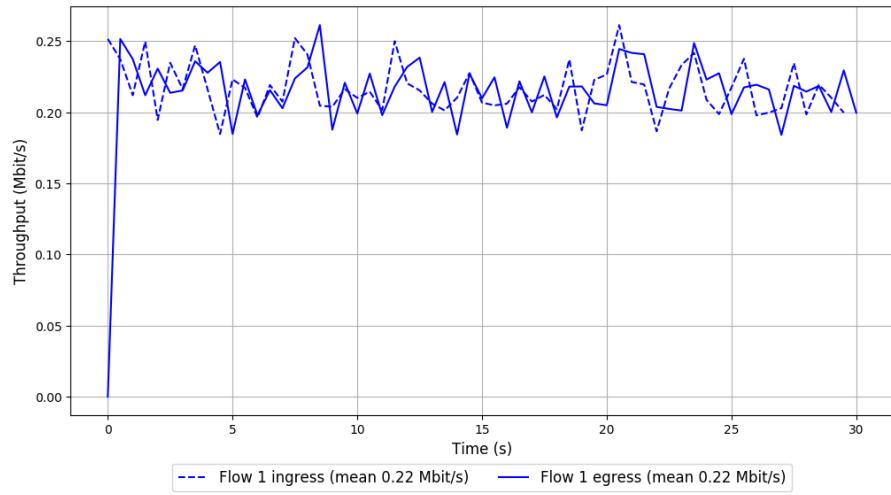


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-06-27 02:38:55
End at: 2019-06-27 02:39:25
Local clock offset: -0.789 ms
Remote clock offset: -3.554 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

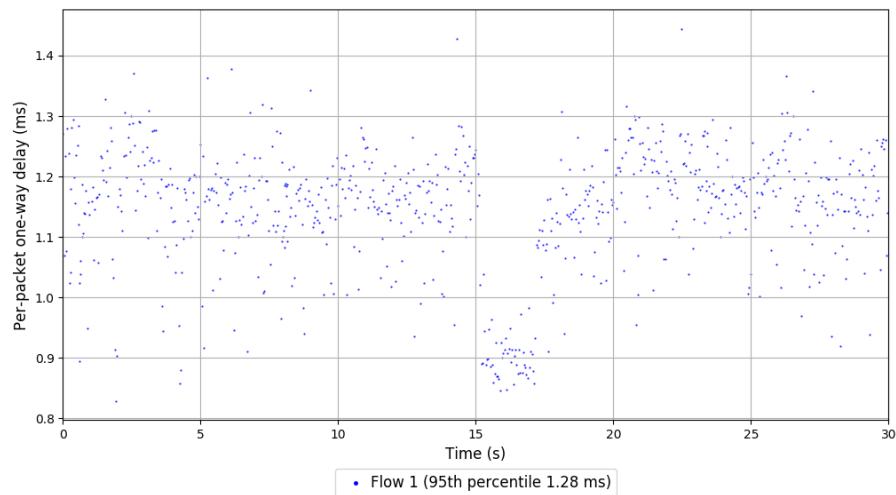
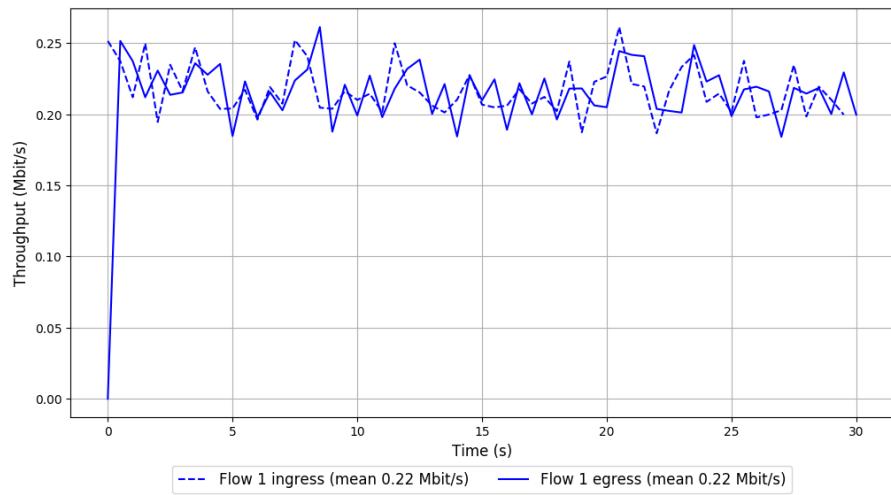


Run 2: Statistics of SCReAM

```
Start at: 2019-06-27 03:09:20
End at: 2019-06-27 03:09:50
Local clock offset: 3.254 ms
Remote clock offset: 0.82 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.279 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.279 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

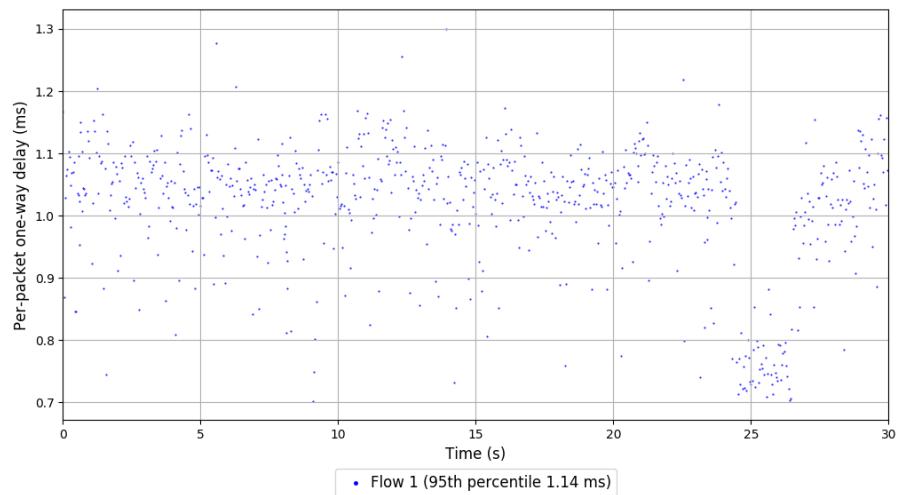
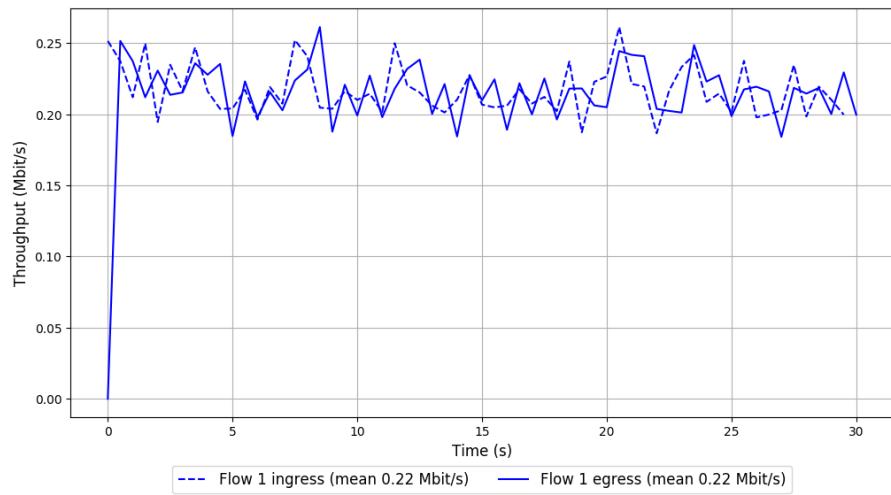


Run 3: Statistics of SCReAM

```
Start at: 2019-06-27 03:39:40
End at: 2019-06-27 03:40:10
Local clock offset: -3.389 ms
Remote clock offset: -3.588 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

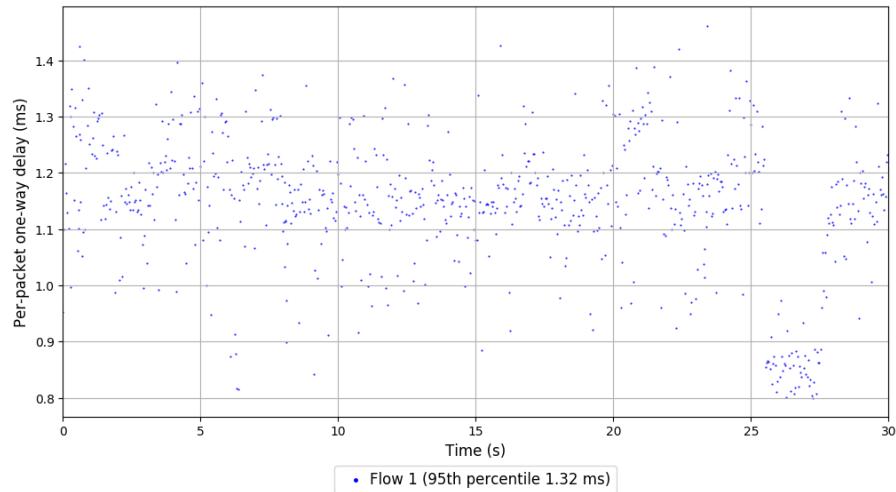
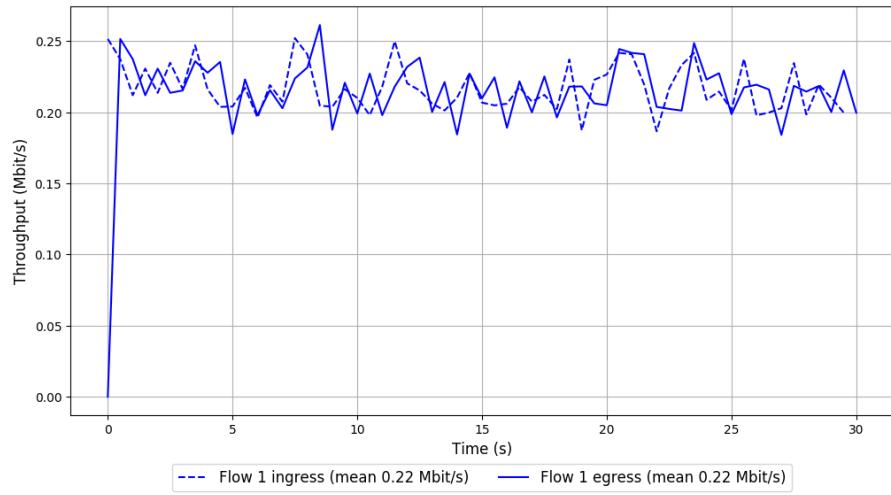


Run 4: Statistics of SCReAM

```
Start at: 2019-06-27 04:10:09
End at: 2019-06-27 04:10:39
Local clock offset: -0.304 ms
Remote clock offset: -3.208 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.319 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.319 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

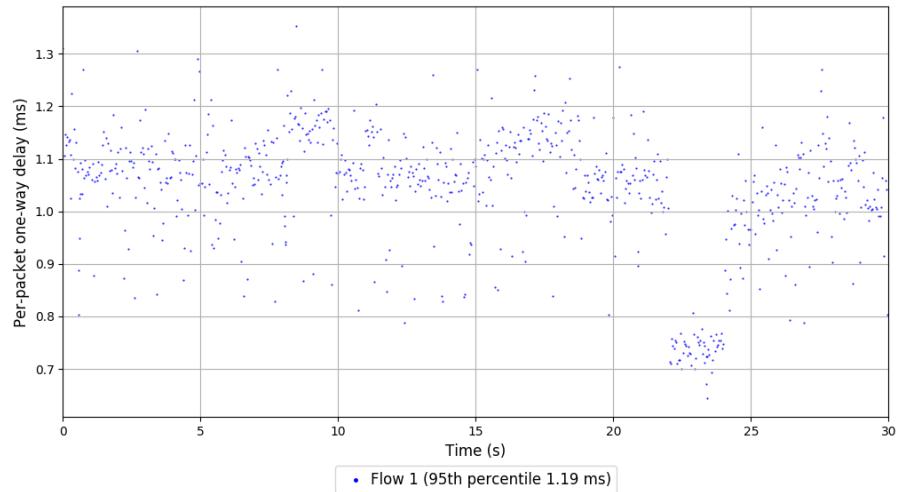
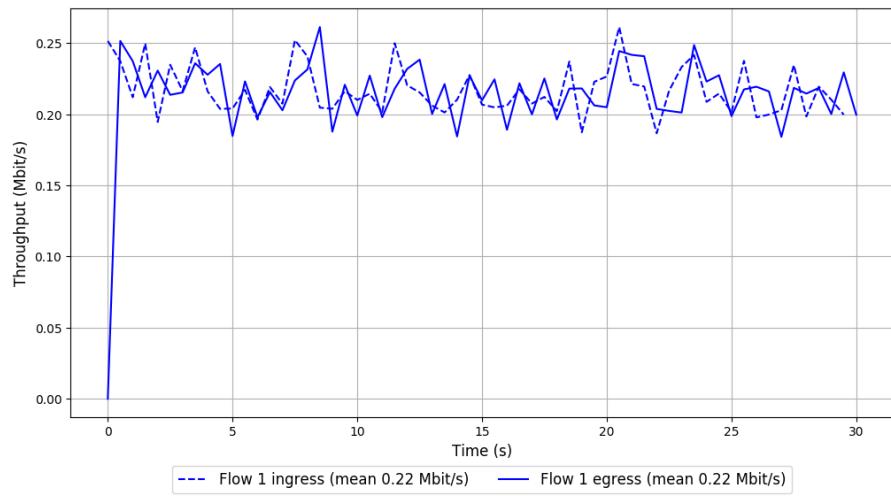


Run 5: Statistics of SCReAM

```
Start at: 2019-06-27 04:40:43
End at: 2019-06-27 04:41:13
Local clock offset: -3.495 ms
Remote clock offset: 0.23 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.185 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

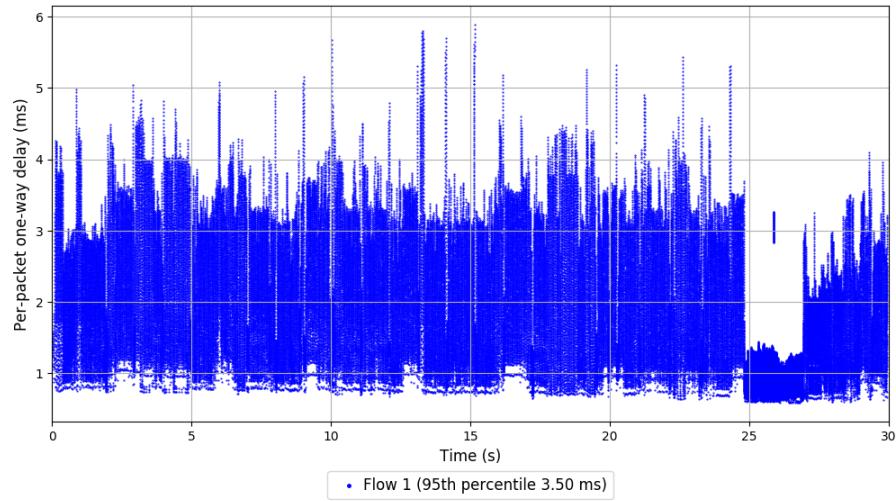
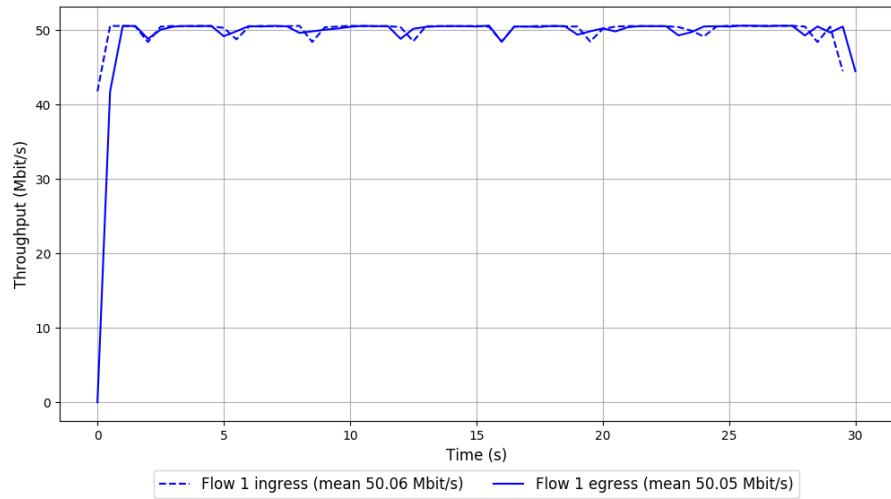


Run 1: Statistics of Sprout

```
Start at: 2019-06-27 02:45:40
End at: 2019-06-27 02:46:10
Local clock offset: -0.909 ms
Remote clock offset: -2.034 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.05 Mbit/s
95th percentile per-packet one-way delay: 3.500 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.05 Mbit/s
95th percentile per-packet one-way delay: 3.500 ms
Loss rate: 0.02%
```

Run 1: Report of Sprout — Data Link

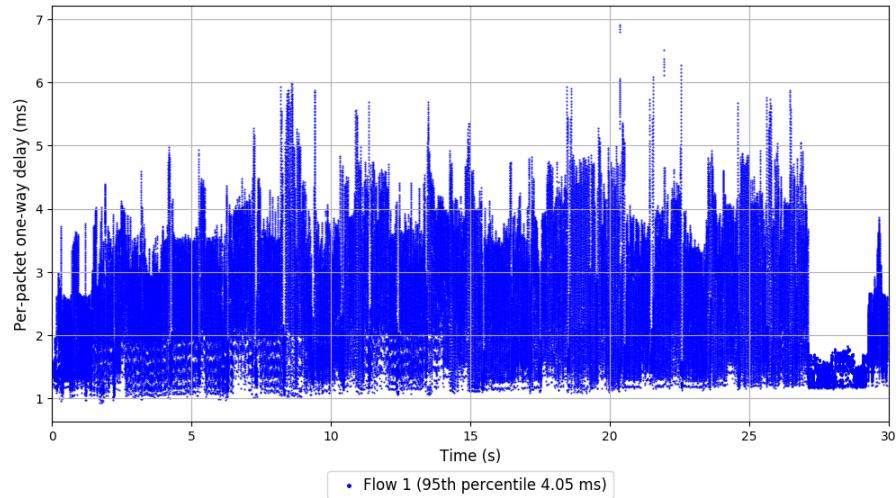
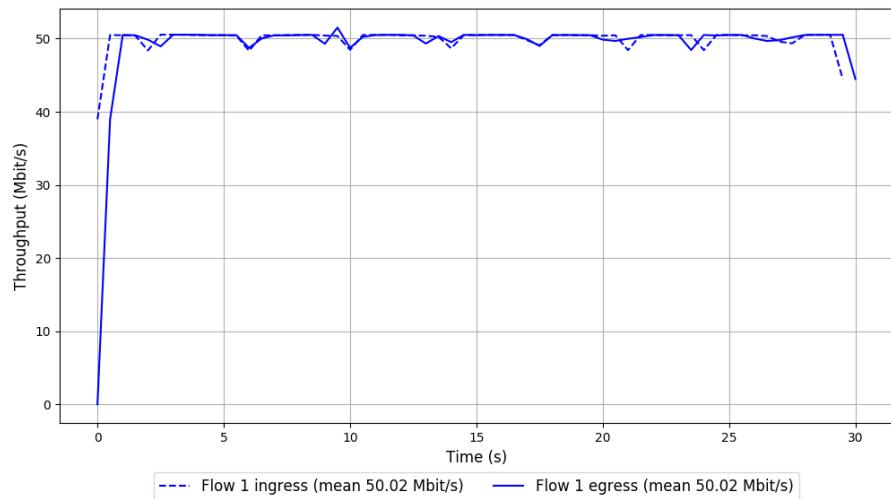


Run 2: Statistics of Sprout

```
Start at: 2019-06-27 03:16:08
End at: 2019-06-27 03:16:38
Local clock offset: 3.683 ms
Remote clock offset: 0.789 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.02 Mbit/s
95th percentile per-packet one-way delay: 4.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.02 Mbit/s
95th percentile per-packet one-way delay: 4.049 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

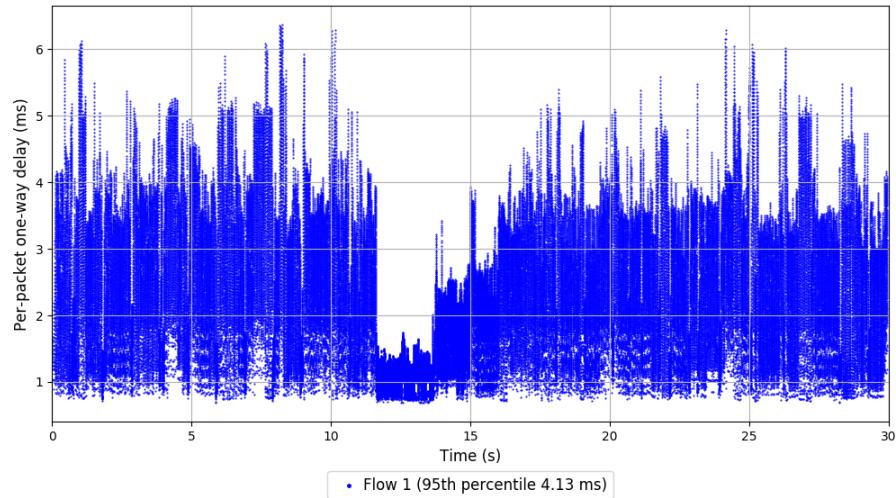
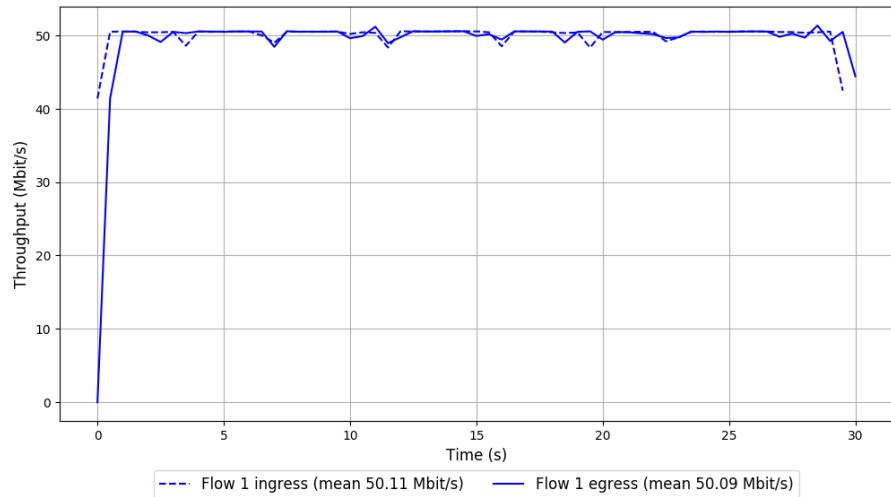


Run 3: Statistics of Sprout

```
Start at: 2019-06-27 03:46:23
End at: 2019-06-27 03:46:53
Local clock offset: -4.152 ms
Remote clock offset: -4.047 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.09 Mbit/s
95th percentile per-packet one-way delay: 4.128 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.09 Mbit/s
95th percentile per-packet one-way delay: 4.128 ms
Loss rate: 0.02%
```

Run 3: Report of Sprout — Data Link

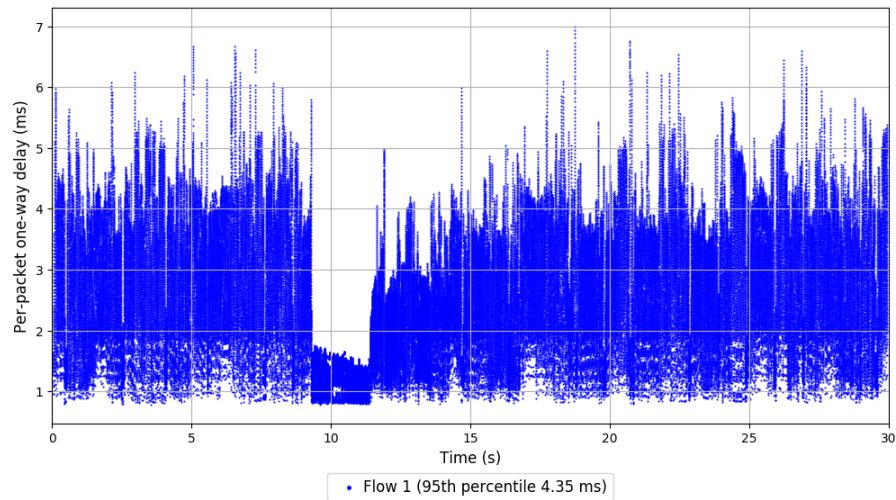
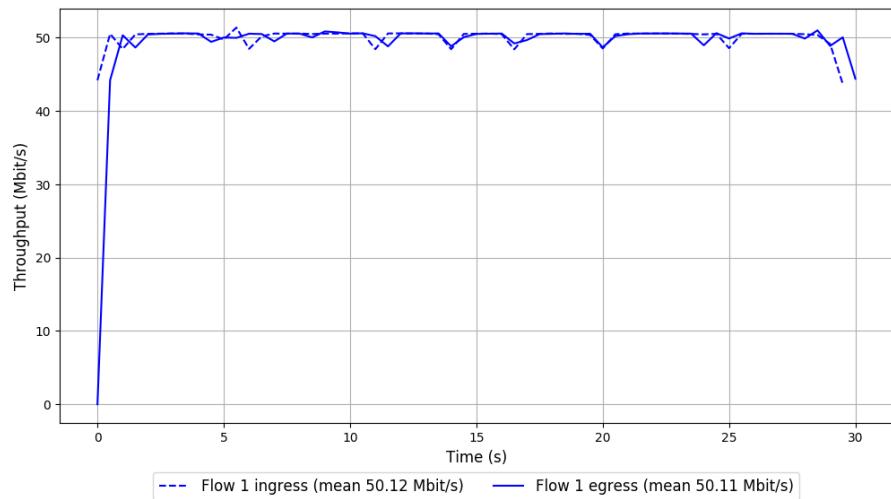


Run 4: Statistics of Sprout

```
Start at: 2019-06-27 04:16:55
End at: 2019-06-27 04:17:25
Local clock offset: -0.14 ms
Remote clock offset: -3.32 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.11 Mbit/s
95th percentile per-packet one-way delay: 4.349 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.11 Mbit/s
95th percentile per-packet one-way delay: 4.349 ms
Loss rate: 0.02%
```

Run 4: Report of Sprout — Data Link

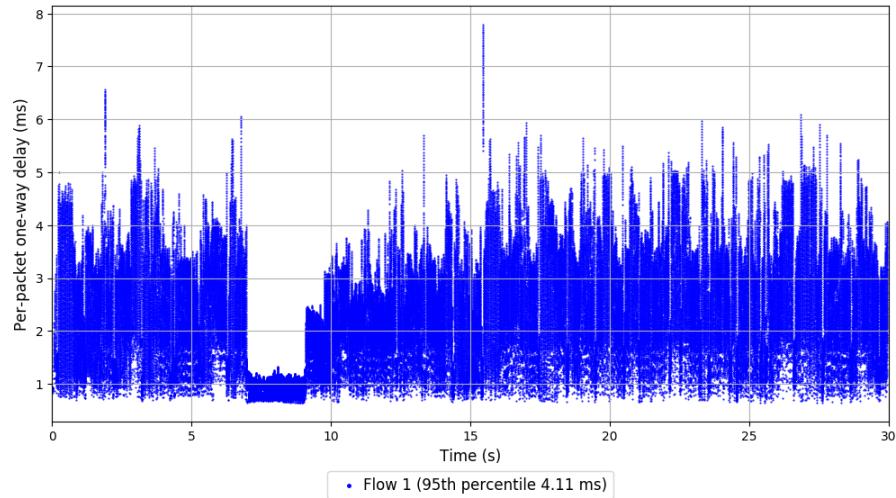
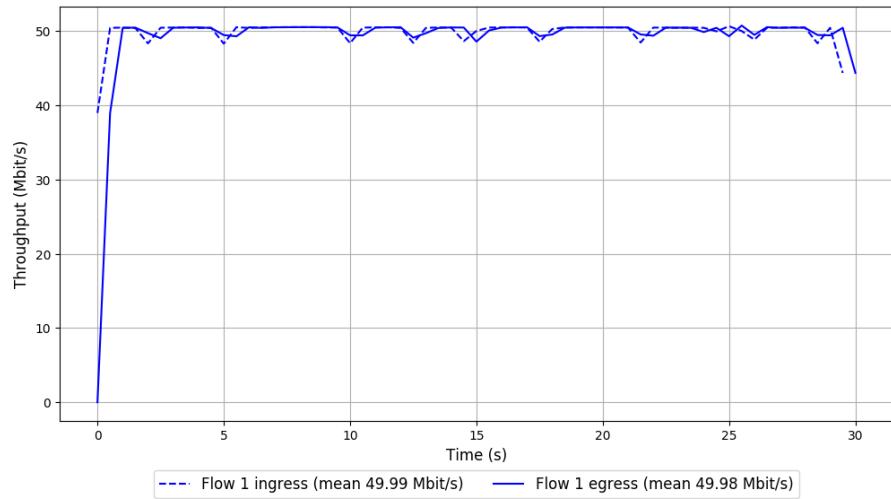


Run 5: Statistics of Sprout

```
Start at: 2019-06-27 04:47:28
End at: 2019-06-27 04:47:58
Local clock offset: -3.863 ms
Remote clock offset: 0.654 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.98 Mbit/s
95th percentile per-packet one-way delay: 4.106 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.98 Mbit/s
95th percentile per-packet one-way delay: 4.106 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

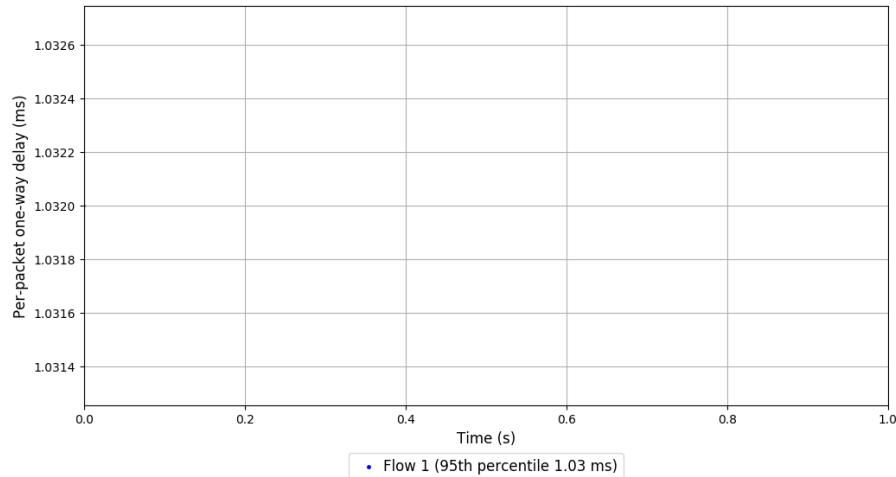
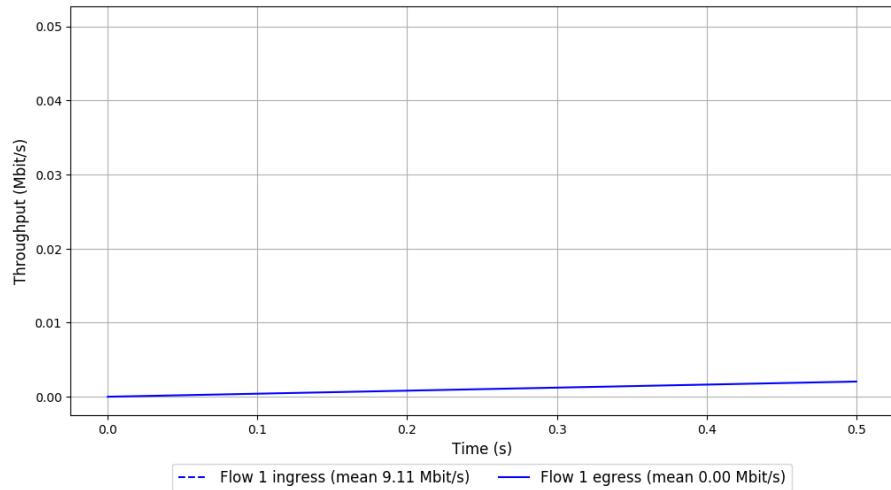
Start at: 2019-06-27 02:41:22

End at: 2019-06-27 02:41:52

Local clock offset: -0.807 ms

Remote clock offset: -3.72 ms

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



Run 2: Statistics of TaoVA-100x

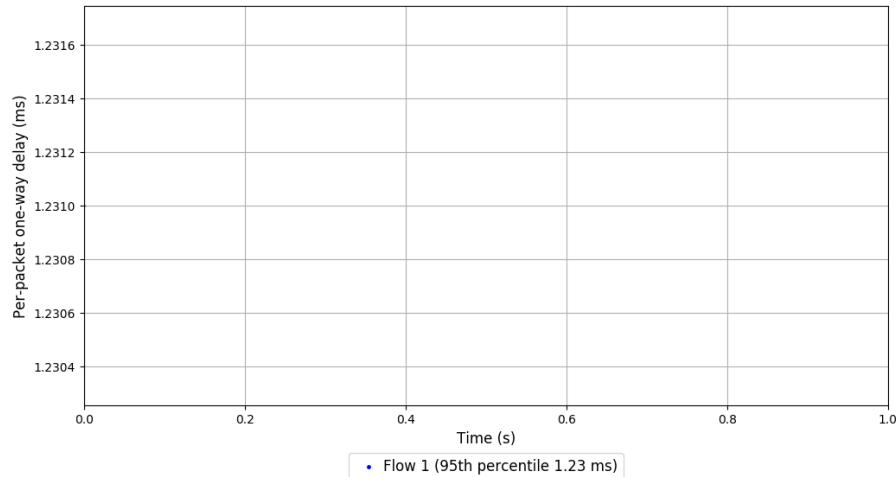
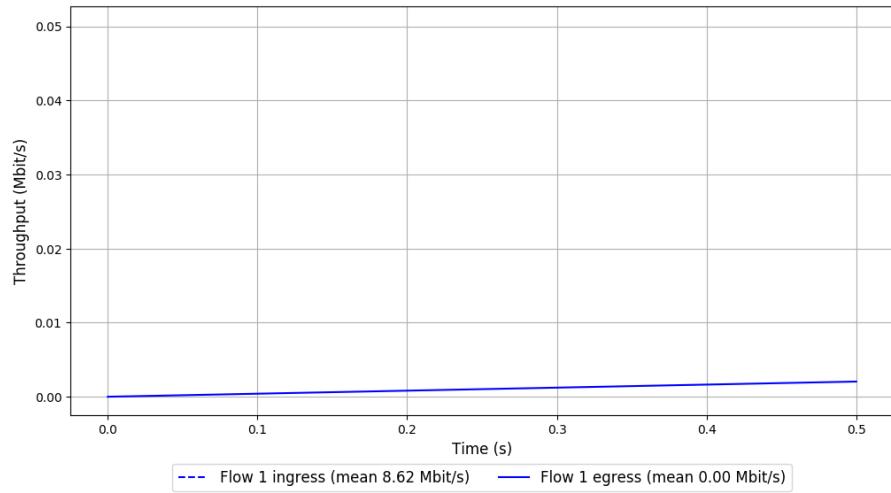
Start at: 2019-06-27 03:11:47

End at: 2019-06-27 03:12:17

Local clock offset: 3.428 ms

Remote clock offset: 0.852 ms

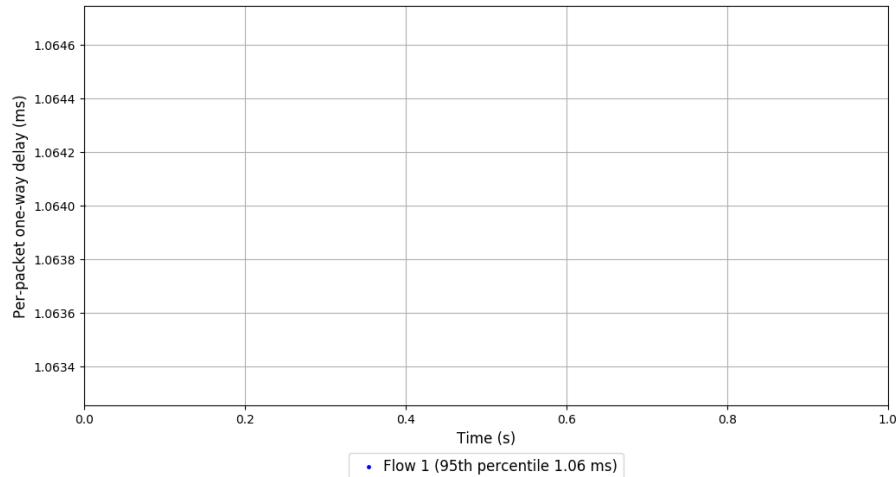
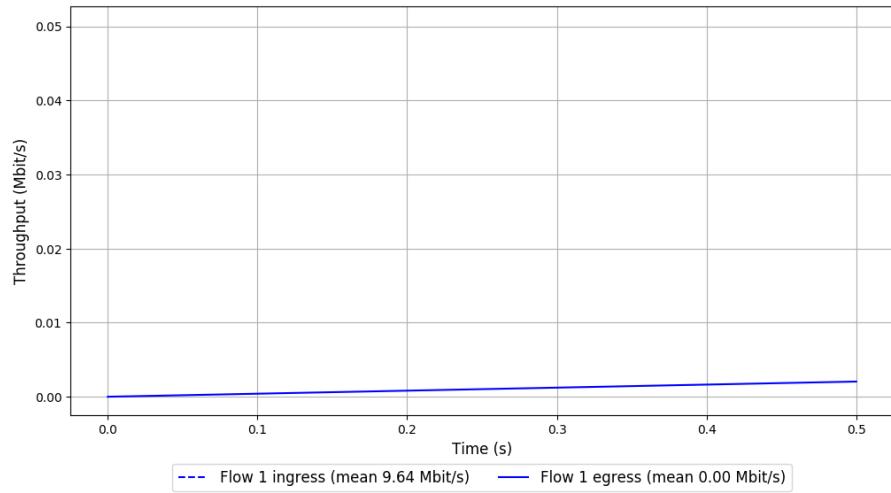
Run 2: Report of TaoVA-100x — Data Link



Run 3: Statistics of TaoVA-100x

Start at: 2019-06-27 03:42:07
End at: 2019-06-27 03:42:37
Local clock offset: -3.725 ms
Remote clock offset: -3.861 ms

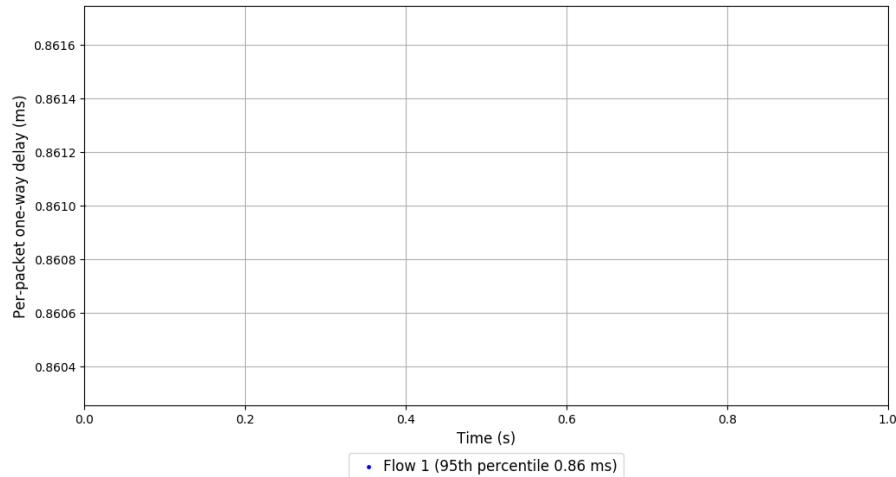
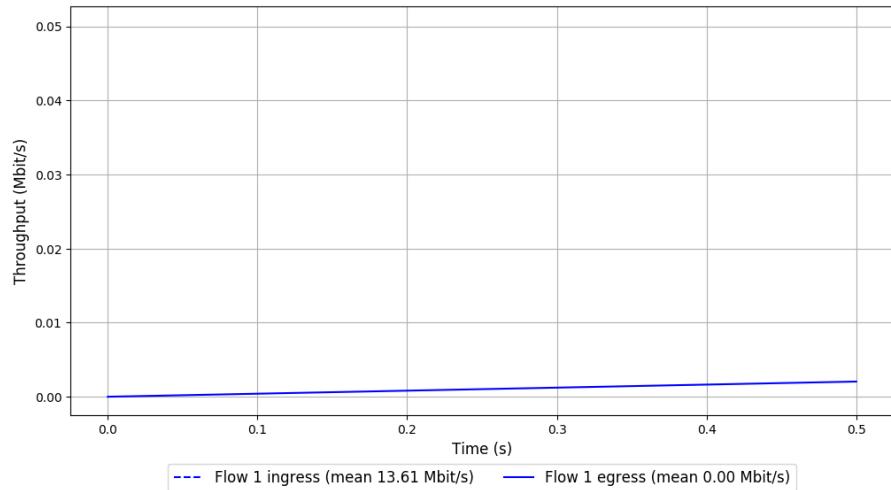
Run 3: Report of TaoVA-100x — Data Link



Run 4: Statistics of TaoVA-100x

Start at: 2019-06-27 04:12:36
End at: 2019-06-27 04:13:06
Local clock offset: -0.252 ms
Remote clock offset: -3.237 ms

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



Run 5: Statistics of TaoVA-100x

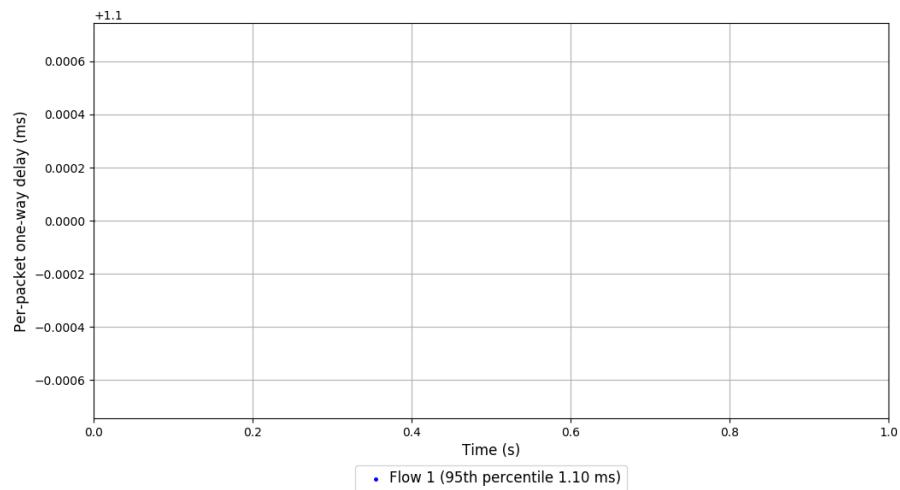
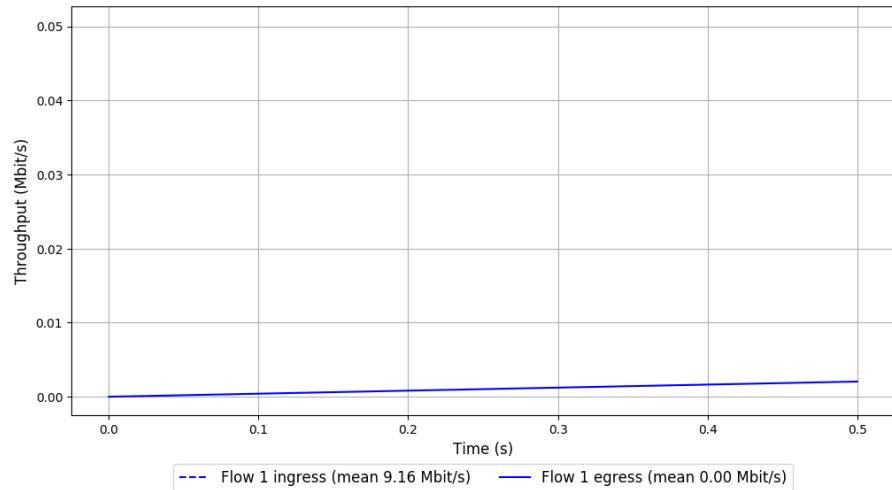
Start at: 2019-06-27 04:43:10

End at: 2019-06-27 04:43:40

Local clock offset: -3.623 ms

Remote clock offset: 0.415 ms

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

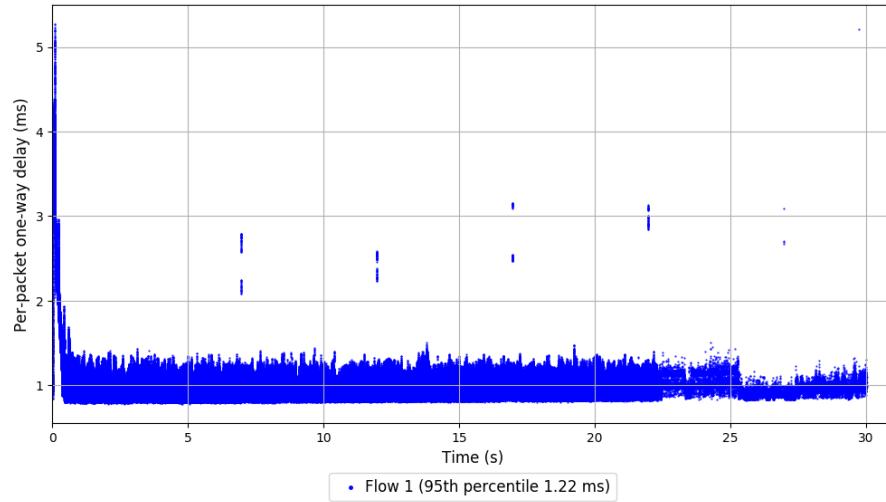
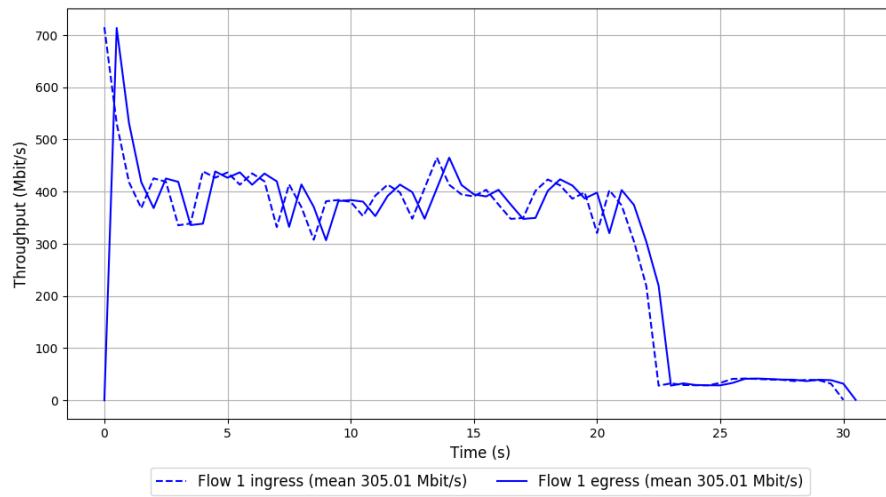


Run 1: Statistics of TCP Vegas

```
Start at: 2019-06-27 02:27:40
End at: 2019-06-27 02:28:10
Local clock offset: -0.808 ms
Remote clock offset: -3.113 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 305.01 Mbit/s
95th percentile per-packet one-way delay: 1.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 305.01 Mbit/s
95th percentile per-packet one-way delay: 1.215 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

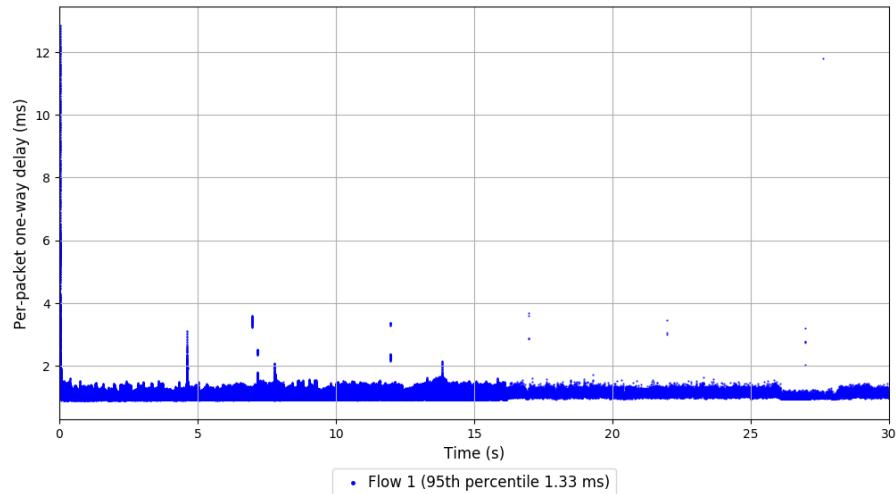
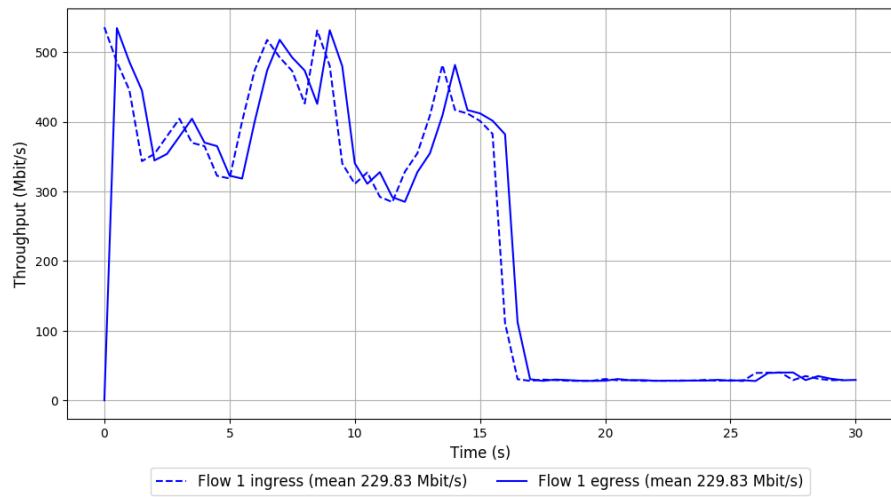


Run 2: Statistics of TCP Vegas

```
Start at: 2019-06-27 02:58:09
End at: 2019-06-27 02:58:39
Local clock offset: 1.941 ms
Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.83 Mbit/s
95th percentile per-packet one-way delay: 1.333 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.83 Mbit/s
95th percentile per-packet one-way delay: 1.333 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

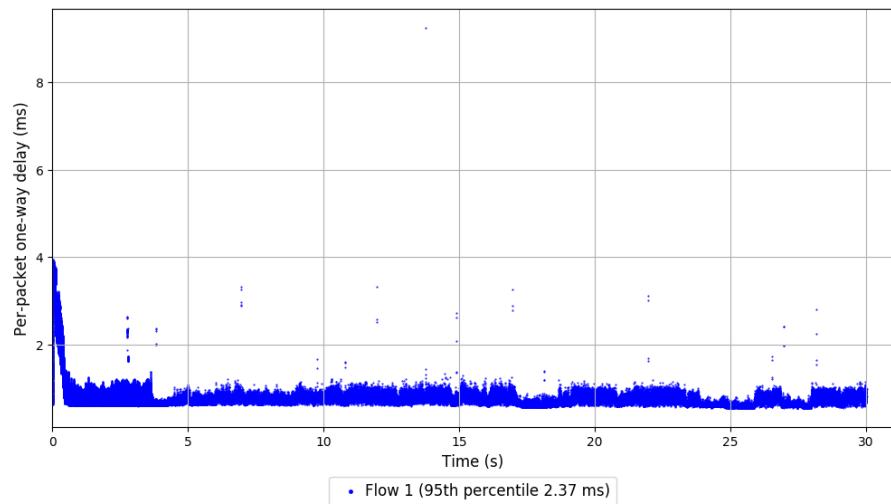
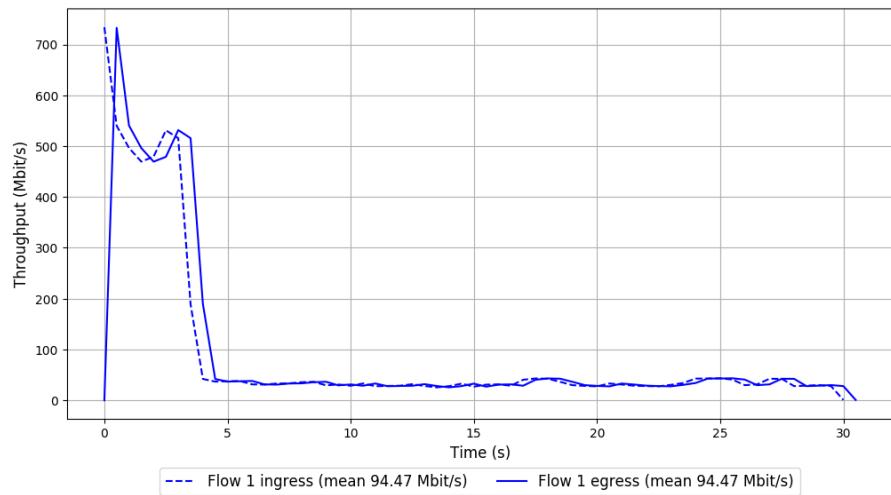


Run 3: Statistics of TCP Vegas

```
Start at: 2019-06-27 03:28:33
End at: 2019-06-27 03:29:03
Local clock offset: -1.231 ms
Remote clock offset: -2.558 ms

# Below is generated by plot.py at 2019-06-27 05:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.47 Mbit/s
95th percentile per-packet one-way delay: 2.372 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.47 Mbit/s
95th percentile per-packet one-way delay: 2.372 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

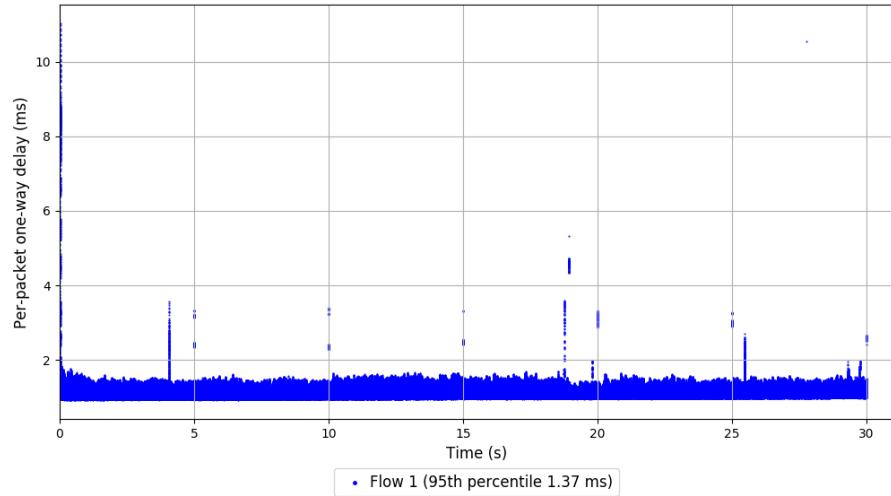
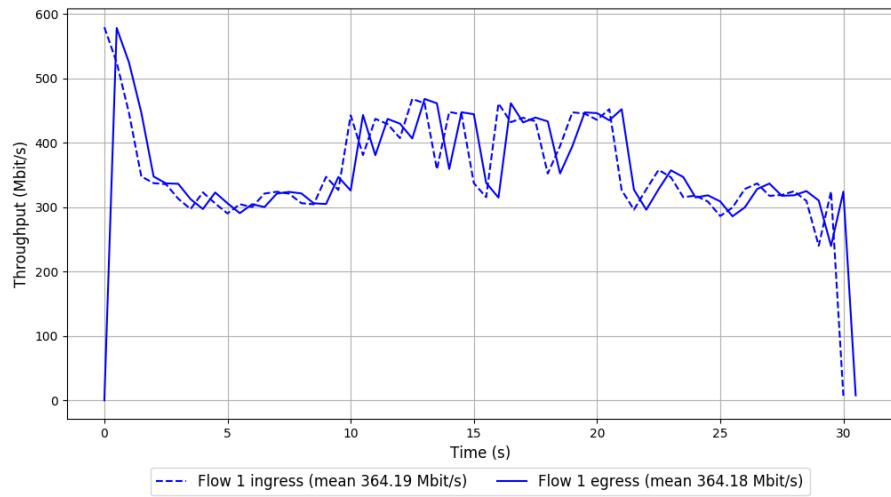


Run 4: Statistics of TCP Vegas

```
Start at: 2019-06-27 03:58:46
End at: 2019-06-27 03:59:16
Local clock offset: -1.291 ms
Remote clock offset: -3.363 ms

# Below is generated by plot.py at 2019-06-27 05:41:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.18 Mbit/s
95th percentile per-packet one-way delay: 1.366 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 364.18 Mbit/s
95th percentile per-packet one-way delay: 1.366 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

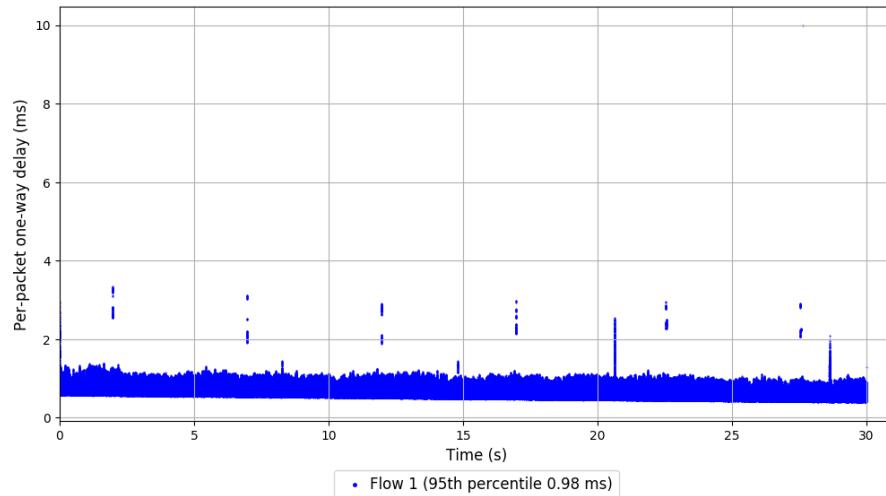
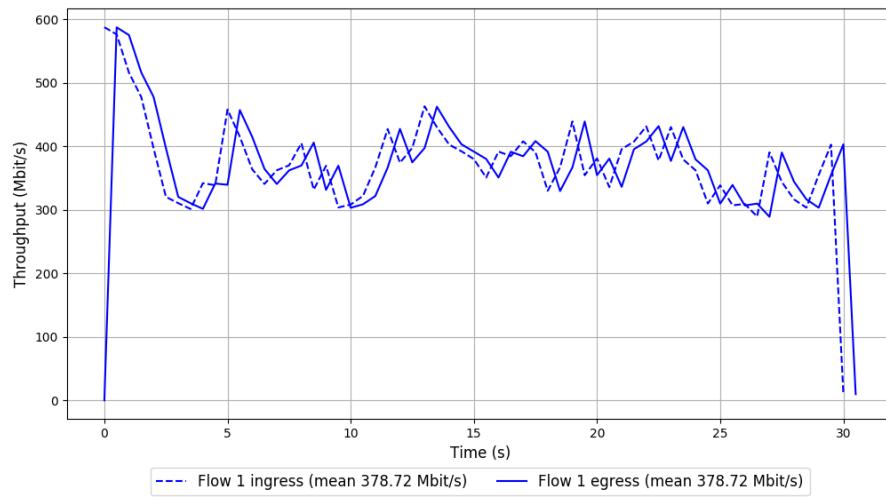


Run 5: Statistics of TCP Vegas

```
Start at: 2019-06-27 04:29:22
End at: 2019-06-27 04:29:52
Local clock offset: -2.422 ms
Remote clock offset: -1.553 ms

# Below is generated by plot.py at 2019-06-27 05:42:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 378.72 Mbit/s
95th percentile per-packet one-way delay: 0.985 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 378.72 Mbit/s
95th percentile per-packet one-way delay: 0.985 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

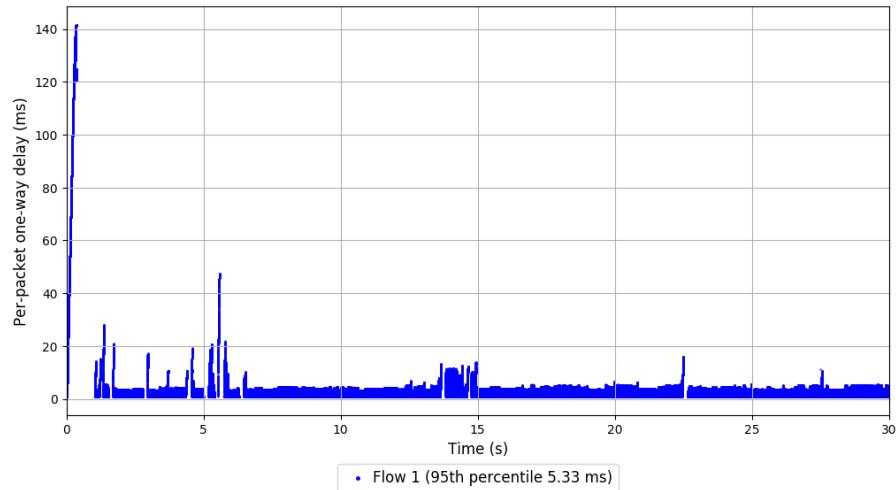
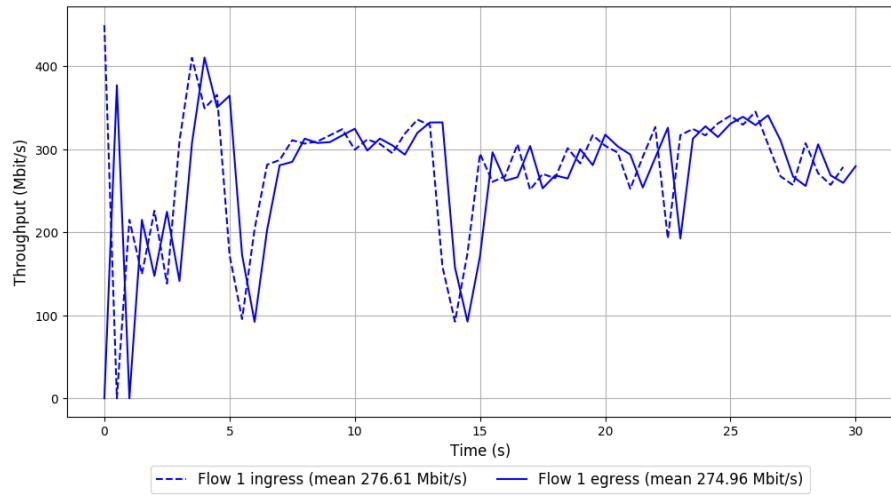


Run 1: Statistics of Verus

```
Start at: 2019-06-27 02:26:14
End at: 2019-06-27 02:26:44
Local clock offset: -0.873 ms
Remote clock offset: -3.024 ms

# Below is generated by plot.py at 2019-06-27 05:42:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 274.96 Mbit/s
95th percentile per-packet one-way delay: 5.328 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 274.96 Mbit/s
95th percentile per-packet one-way delay: 5.328 ms
Loss rate: 0.60%
```

Run 1: Report of Verus — Data Link

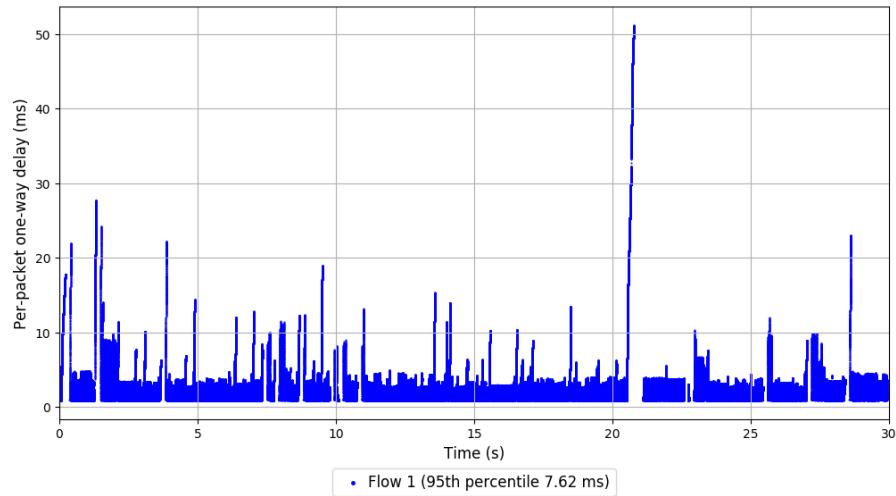
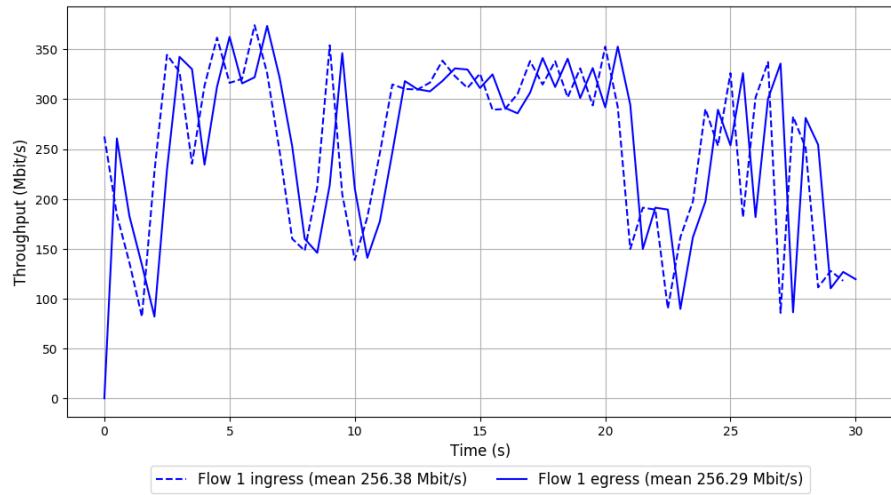


Run 2: Statistics of Verus

```
Start at: 2019-06-27 02:56:44
End at: 2019-06-27 02:57:14
Local clock offset: 1.698 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-06-27 05:42:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.29 Mbit/s
95th percentile per-packet one-way delay: 7.624 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 256.29 Mbit/s
95th percentile per-packet one-way delay: 7.624 ms
Loss rate: 0.03%
```

Run 2: Report of Verus — Data Link

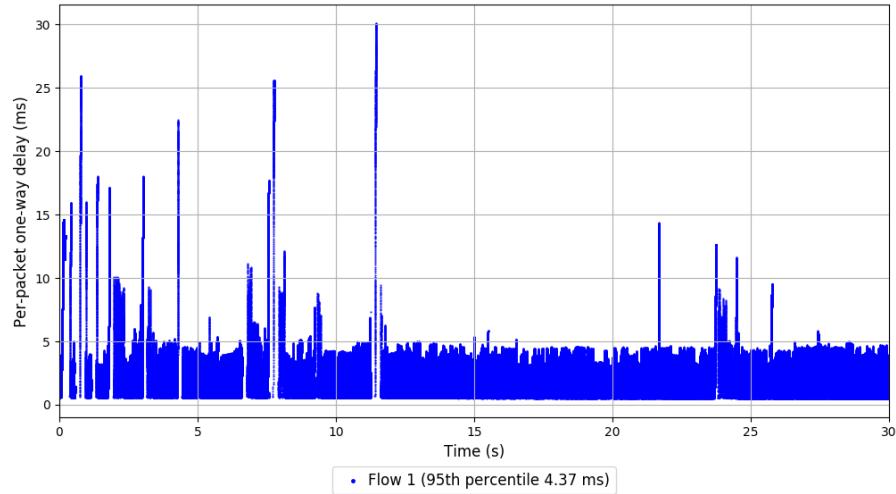
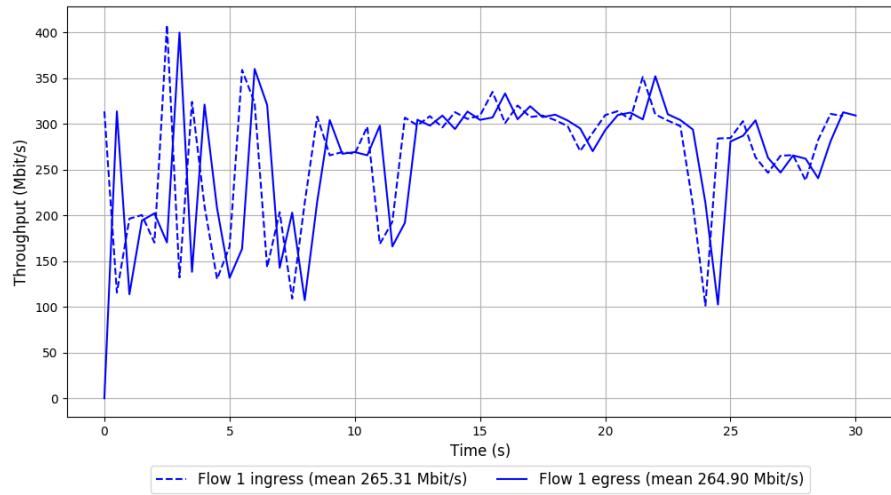


Run 3: Statistics of Verus

```
Start at: 2019-06-27 03:27:08
End at: 2019-06-27 03:27:38
Local clock offset: -0.726 ms
Remote clock offset: -2.341 ms

# Below is generated by plot.py at 2019-06-27 05:43:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 264.90 Mbit/s
95th percentile per-packet one-way delay: 4.366 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 264.90 Mbit/s
95th percentile per-packet one-way delay: 4.366 ms
Loss rate: 0.15%
```

Run 3: Report of Verus — Data Link

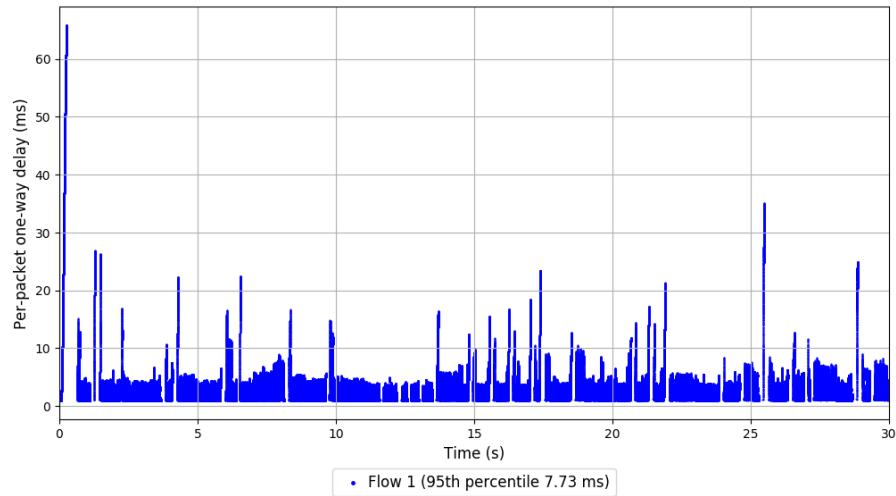
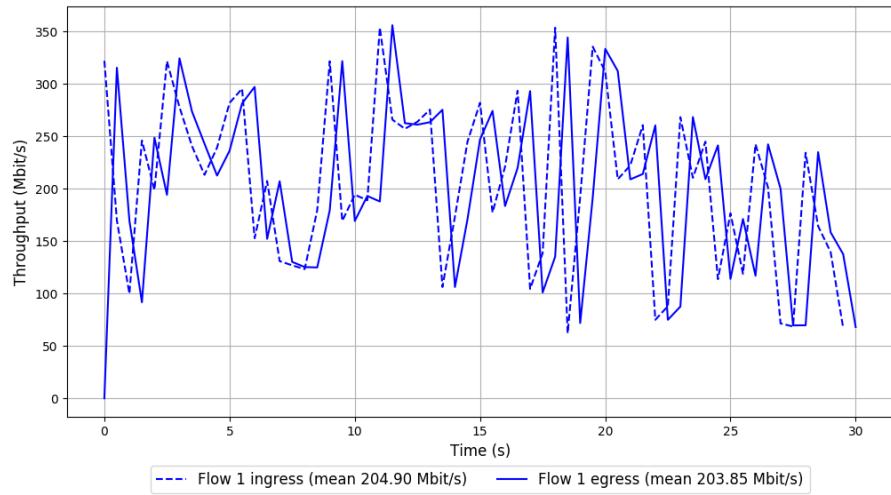


Run 4: Statistics of Verus

```
Start at: 2019-06-27 03:57:24
End at: 2019-06-27 03:57:54
Local clock offset: -1.509 ms
Remote clock offset: -3.424 ms

# Below is generated by plot.py at 2019-06-27 05:43:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.85 Mbit/s
95th percentile per-packet one-way delay: 7.726 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 203.85 Mbit/s
95th percentile per-packet one-way delay: 7.726 ms
Loss rate: 0.50%
```

Run 4: Report of Verus — Data Link

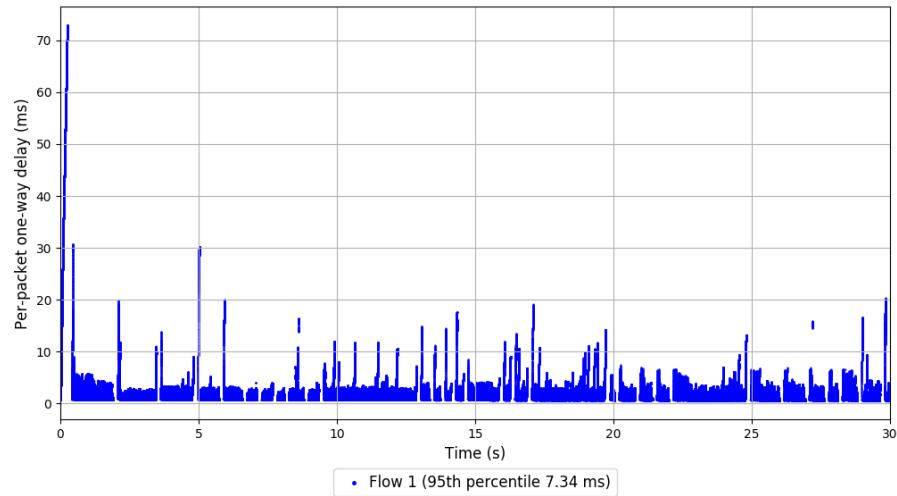
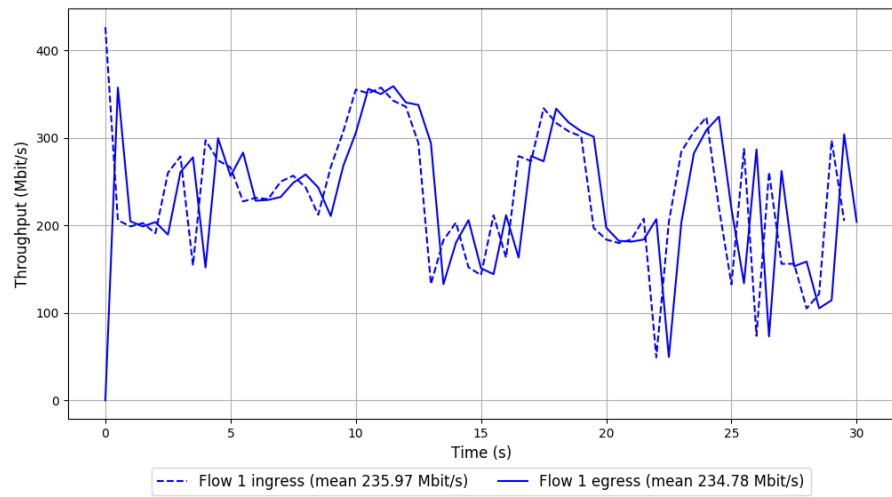


Run 5: Statistics of Verus

```
Start at: 2019-06-27 04:27:58
End at: 2019-06-27 04:28:28
Local clock offset: -2.229 ms
Remote clock offset: -1.849 ms

# Below is generated by plot.py at 2019-06-27 05:43:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.78 Mbit/s
95th percentile per-packet one-way delay: 7.339 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 234.78 Mbit/s
95th percentile per-packet one-way delay: 7.339 ms
Loss rate: 0.51%
```

Run 5: Report of Verus — Data Link

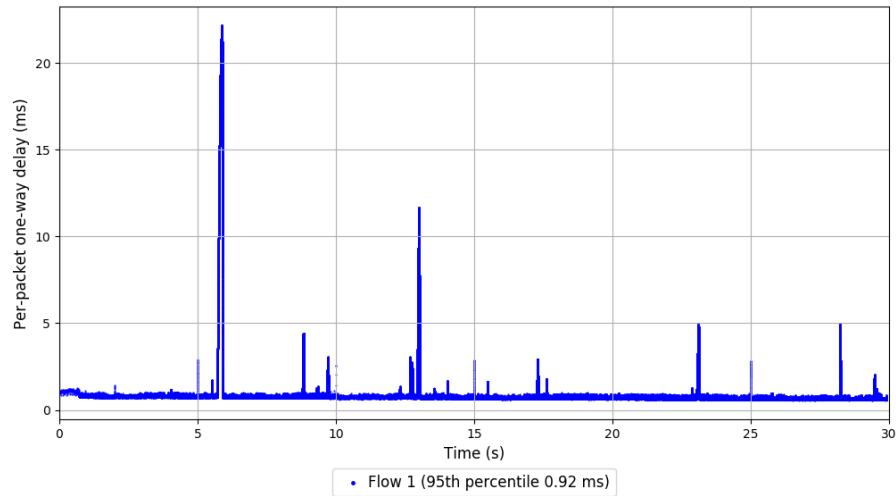
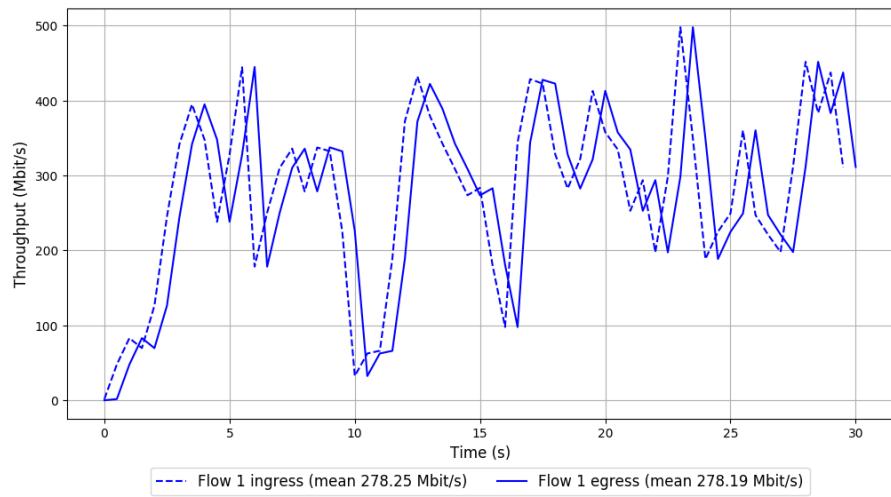


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-06-27 02:44:14
End at: 2019-06-27 02:44:44
Local clock offset: -0.895 ms
Remote clock offset: -2.475 ms

# Below is generated by plot.py at 2019-06-27 05:43:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.19 Mbit/s
95th percentile per-packet one-way delay: 0.919 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 278.19 Mbit/s
95th percentile per-packet one-way delay: 0.919 ms
Loss rate: 0.02%
```

Run 1: Report of PCC-Vivace — Data Link

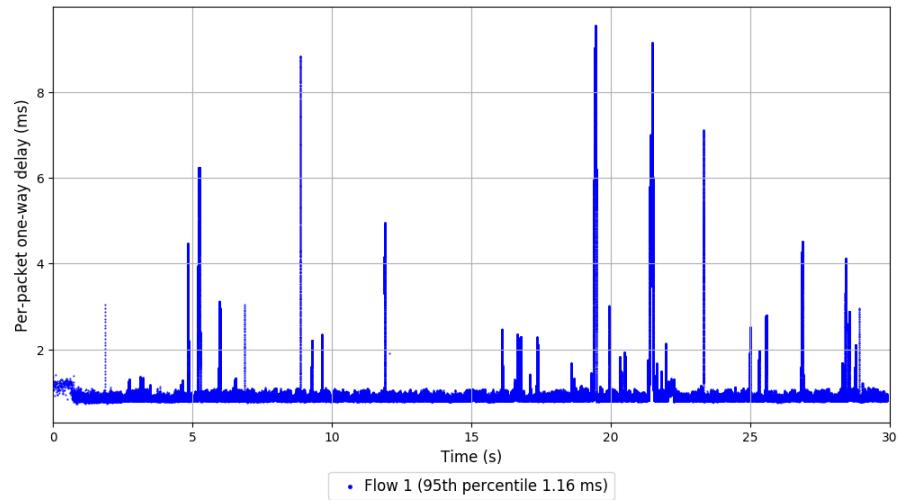
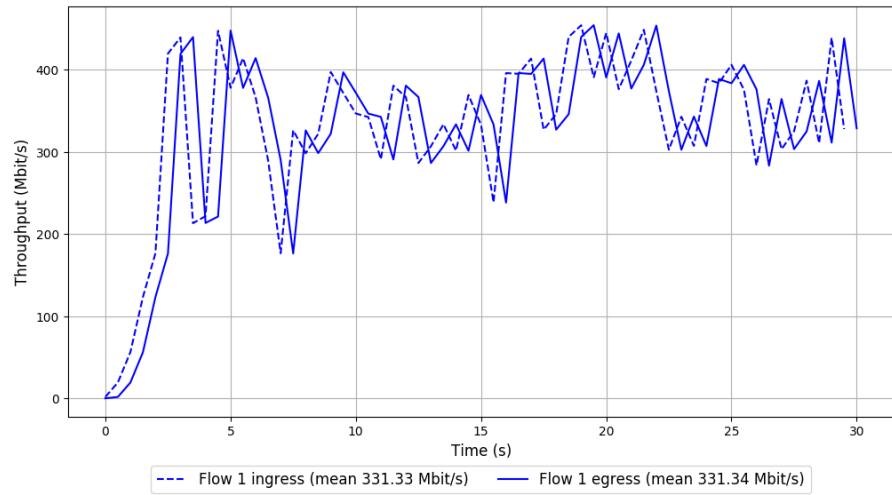


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-06-27 03:14:39
End at: 2019-06-27 03:15:09
Local clock offset: 3.609 ms
Remote clock offset: 1.068 ms

# Below is generated by plot.py at 2019-06-27 05:44:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.34 Mbit/s
95th percentile per-packet one-way delay: 1.163 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 331.34 Mbit/s
95th percentile per-packet one-way delay: 1.163 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

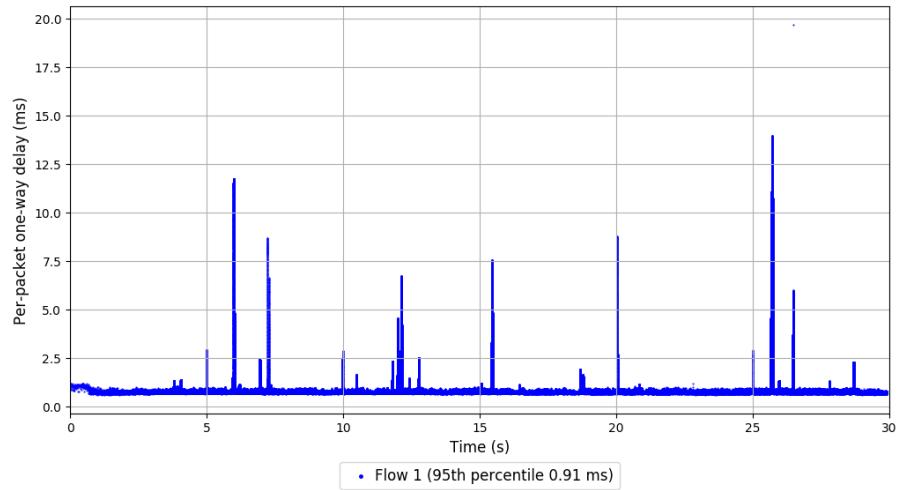
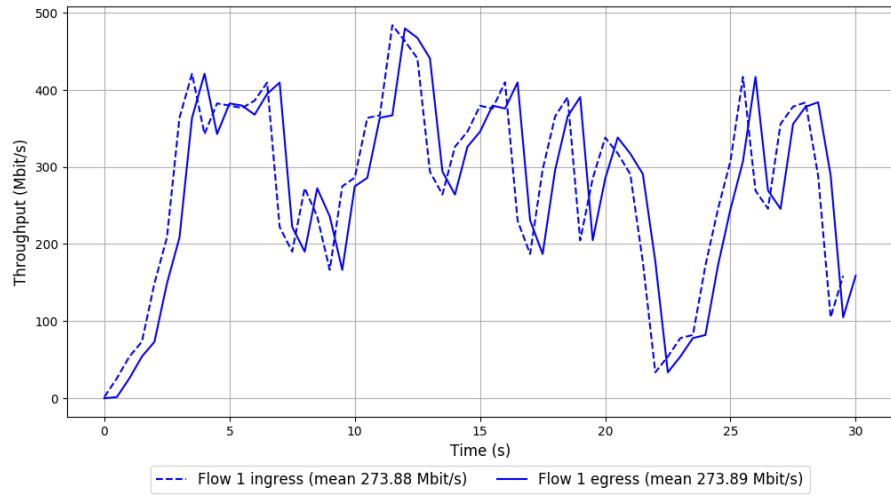


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-06-27 03:44:57
End at: 2019-06-27 03:45:27
Local clock offset: -4.023 ms
Remote clock offset: -4.014 ms

# Below is generated by plot.py at 2019-06-27 05:44:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 273.89 Mbit/s
95th percentile per-packet one-way delay: 0.905 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 273.89 Mbit/s
95th percentile per-packet one-way delay: 0.905 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

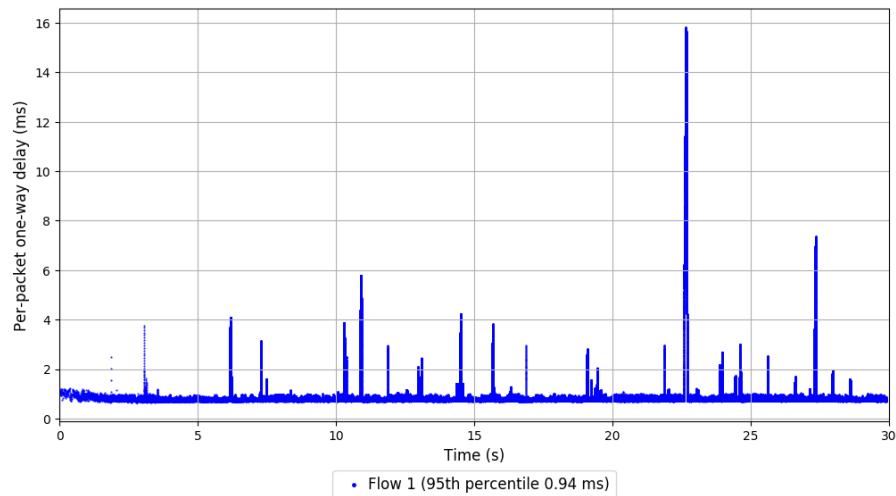
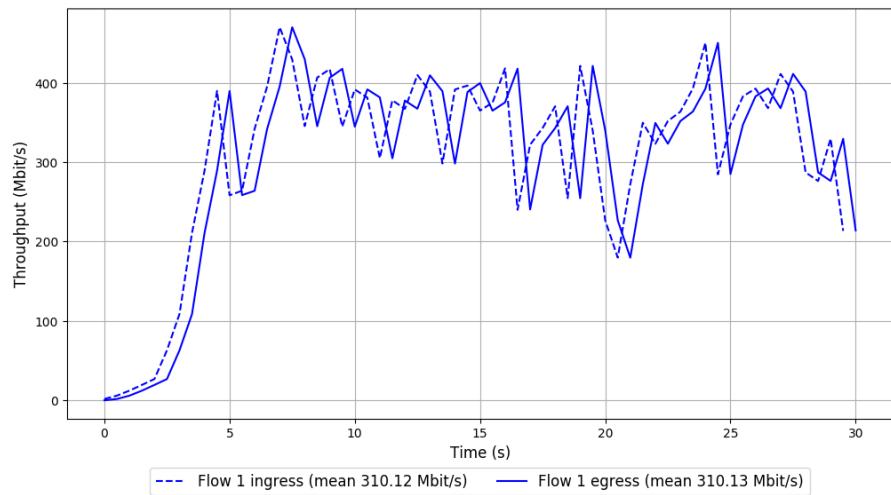


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-06-27 04:15:27
End at: 2019-06-27 04:15:57
Local clock offset: -0.139 ms
Remote clock offset: -3.341 ms

# Below is generated by plot.py at 2019-06-27 05:44:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.13 Mbit/s
95th percentile per-packet one-way delay: 0.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 310.13 Mbit/s
95th percentile per-packet one-way delay: 0.940 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

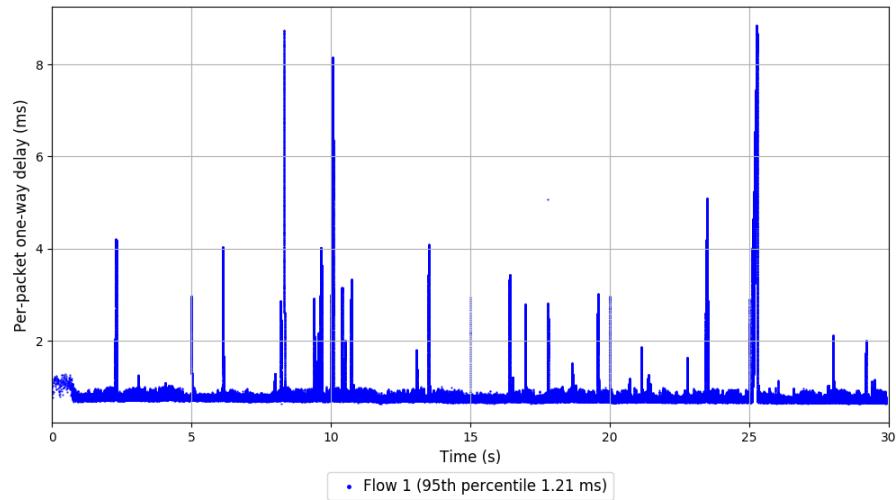
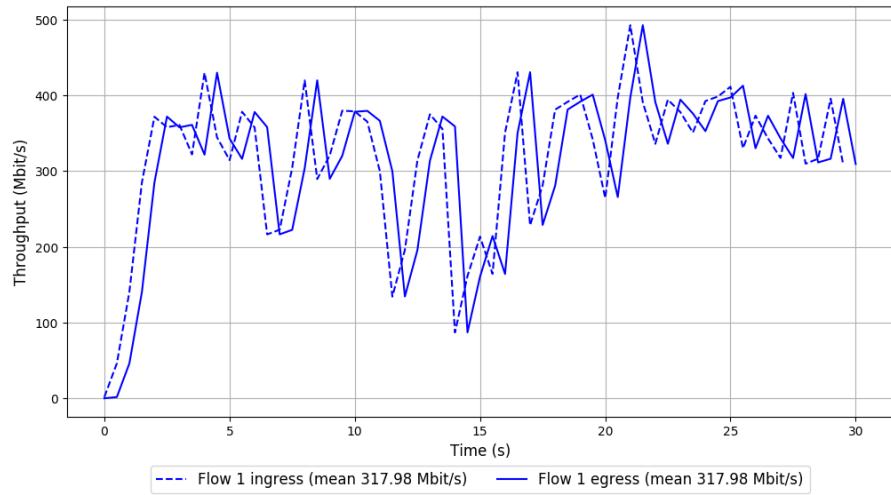


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-06-27 04:46:00
End at: 2019-06-27 04:46:30
Local clock offset: -3.811 ms
Remote clock offset: 0.553 ms

# Below is generated by plot.py at 2019-06-27 05:44:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.98 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 317.98 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

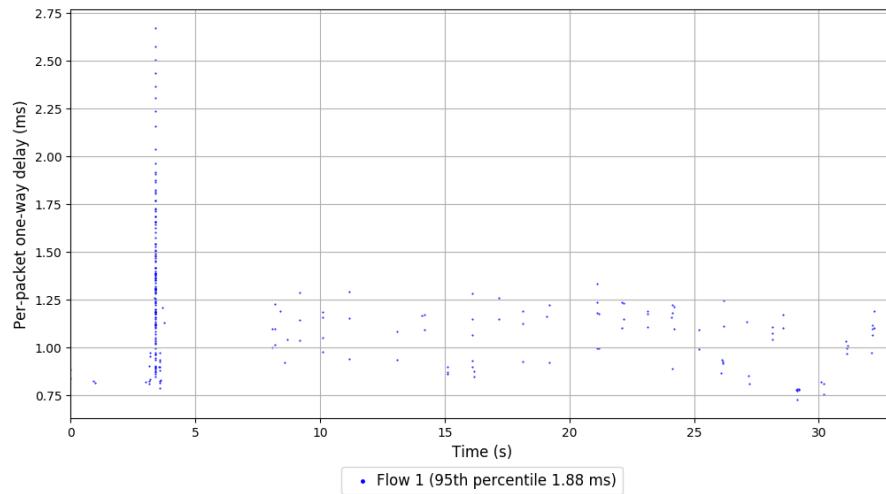
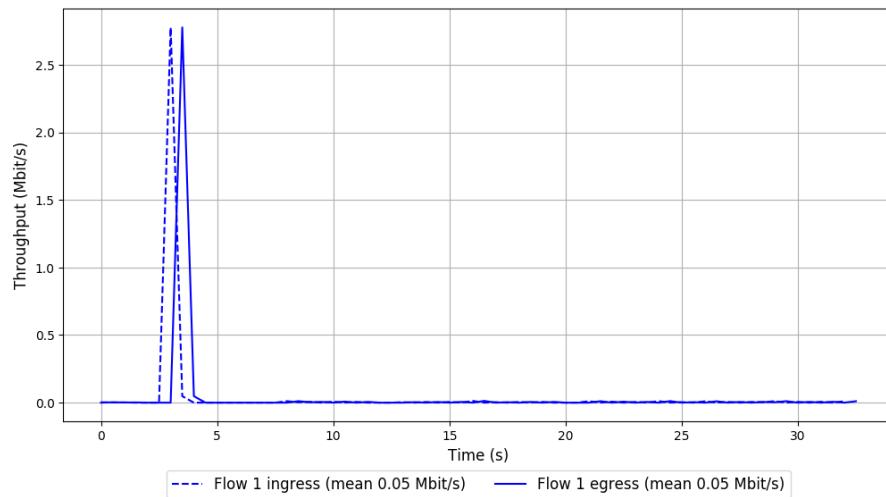


```
Run 1: Statistics of WebRTC media

Start at: 2019-06-27 02:40:08
End at: 2019-06-27 02:40:39
Local clock offset: -0.802 ms
Remote clock offset: -3.606 ms

# Below is generated by plot.py at 2019-06-27 05:44:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.875 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.875 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

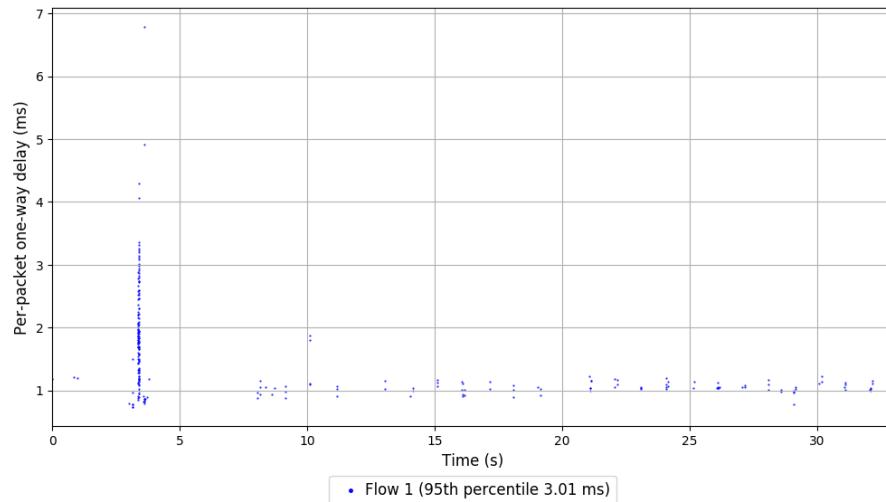
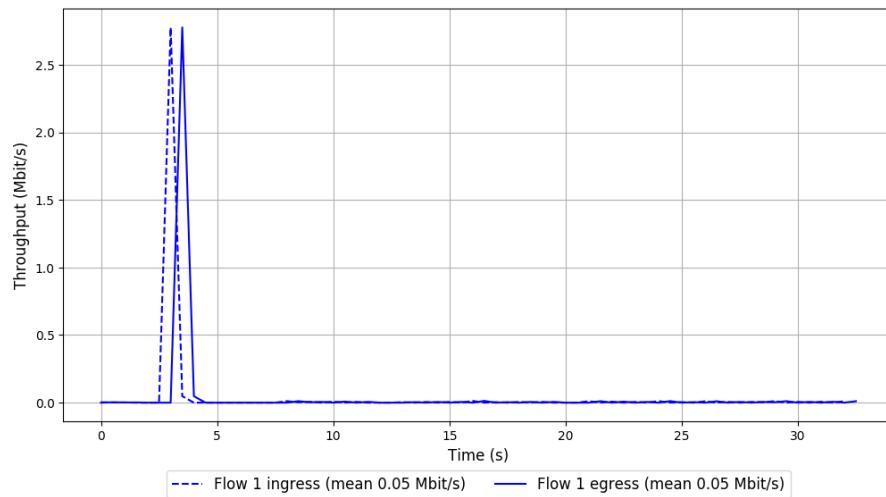


Run 2: Statistics of WebRTC media

```
Start at: 2019-06-27 03:10:33
End at: 2019-06-27 03:11:03
Local clock offset: 3.358 ms
Remote clock offset: 0.845 ms

# Below is generated by plot.py at 2019-06-27 05:44:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.011 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.011 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

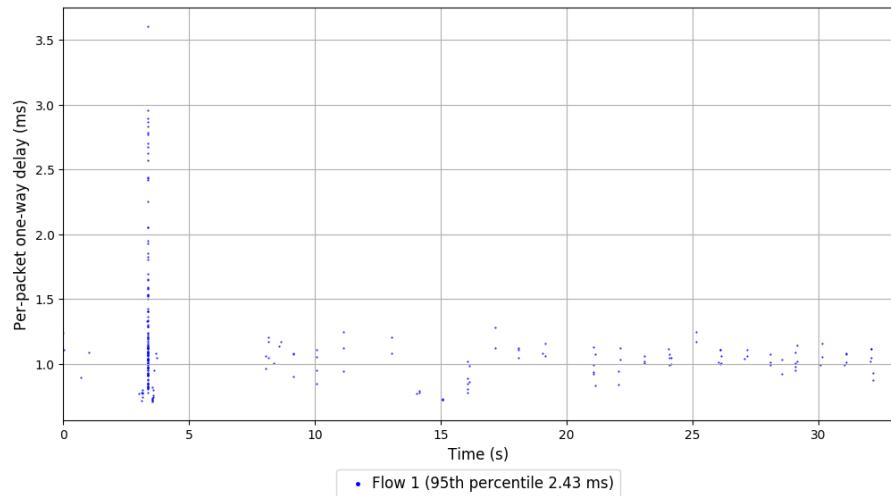
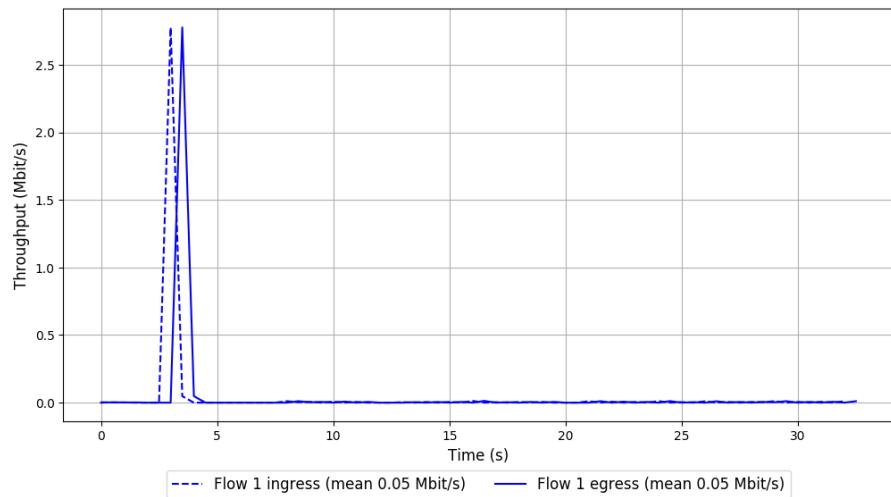


```
Run 3: Statistics of WebRTC media

Start at: 2019-06-27 03:40:54
End at: 2019-06-27 03:41:24
Local clock offset: -3.554 ms
Remote clock offset: -3.651 ms

# Below is generated by plot.py at 2019-06-27 05:44:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.432 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.432 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

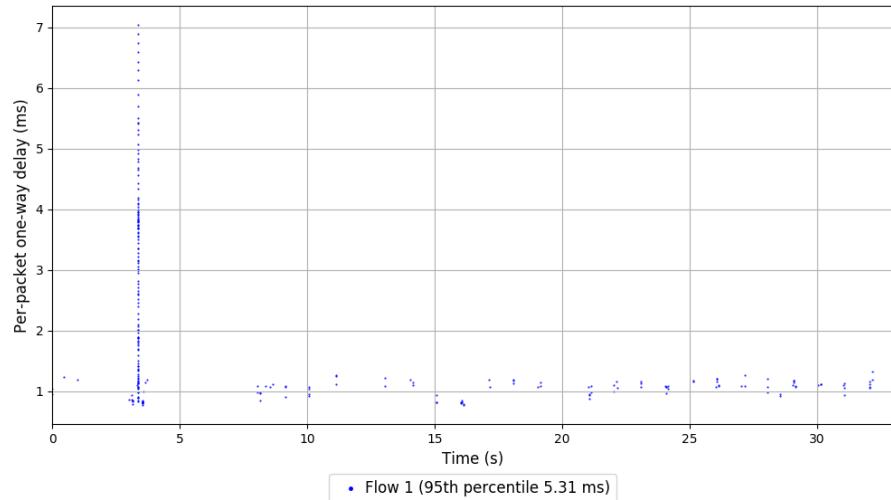
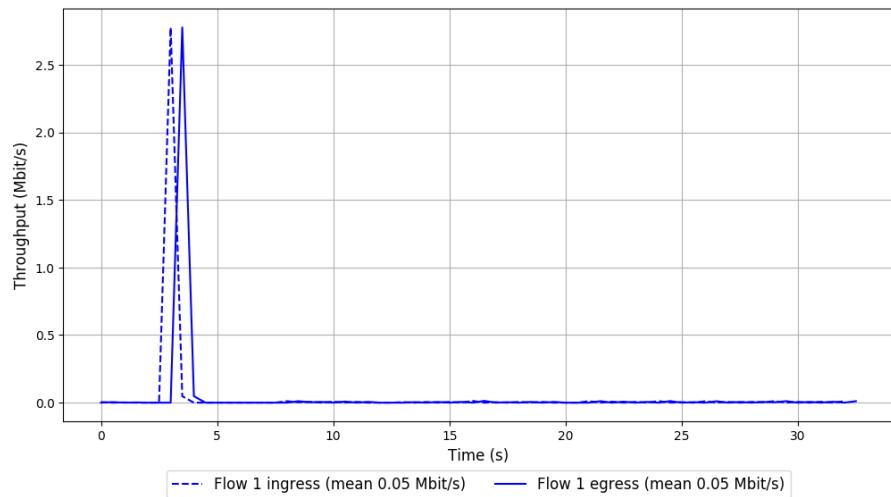


Run 4: Statistics of WebRTC media

```
Start at: 2019-06-27 04:11:23
End at: 2019-06-27 04:11:53
Local clock offset: -0.281 ms
Remote clock offset: -3.226 ms

# Below is generated by plot.py at 2019-06-27 05:44:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 5.310 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 5.310 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-06-27 04:41:56
End at: 2019-06-27 04:42:26
Local clock offset: -3.558 ms
Remote clock offset: 0.262 ms

# Below is generated by plot.py at 2019-06-27 05:44:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 0.990 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 0.990 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

