

Pantheon Report

Generated at 2019-01-19 08:52:41 (UTC).
Data path: Stanford on `eno1` (*remote*) → AWS California 1 on `ens5` (*local*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

System info:

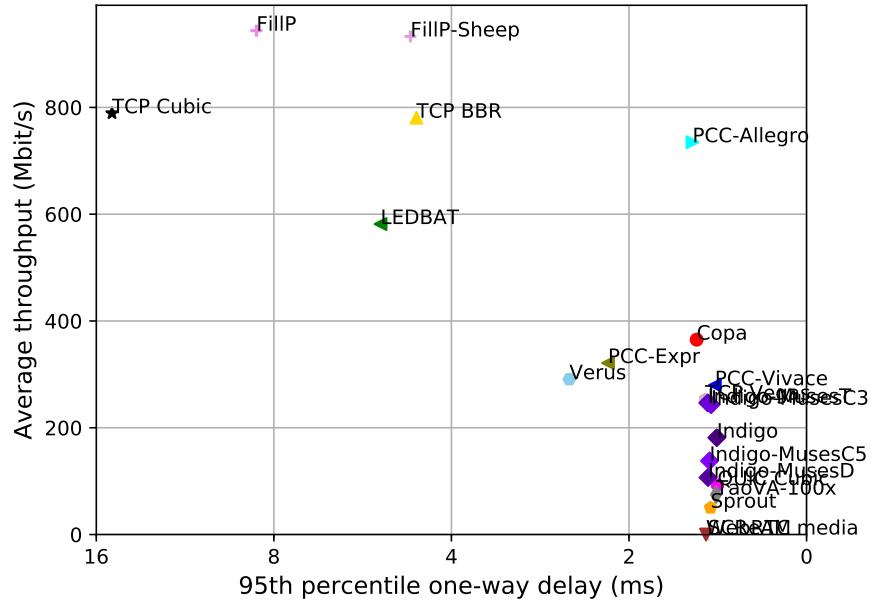
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

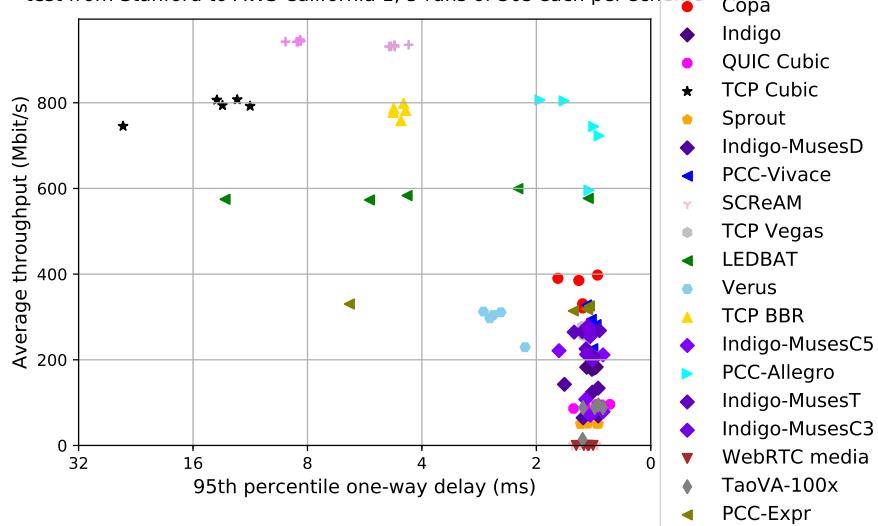
```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefef166e1afe2170
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 Stanford to AWS California 1, 5 runs of 30s each per scheme
(mean of all runs by scheme)



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



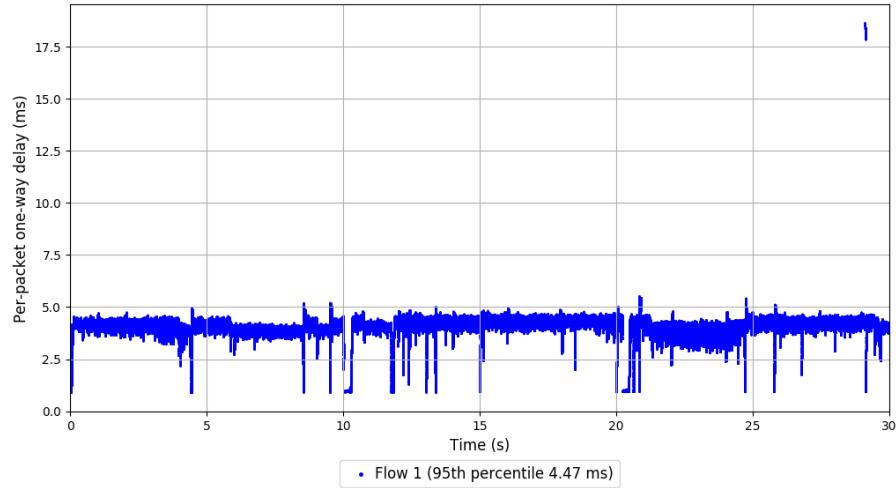
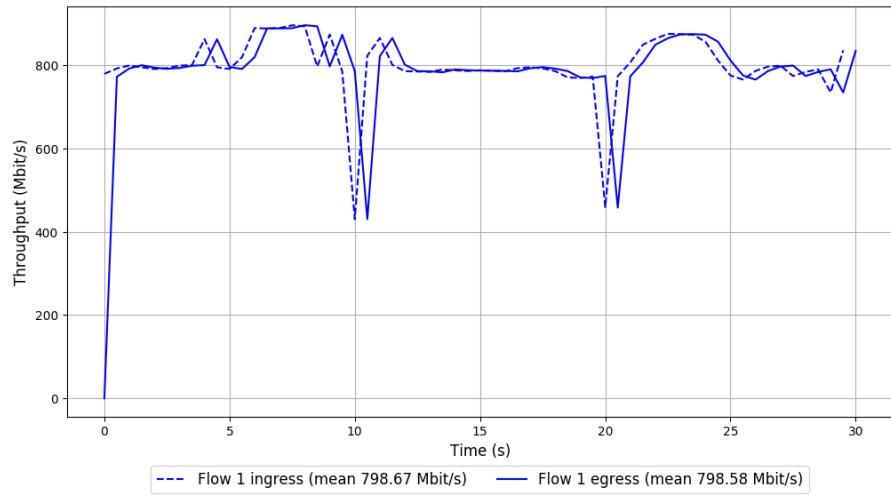
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	780.63	4.59	0.02
Copa	5	364.99	1.24	0.01
TCP Cubic	5	789.11	15.05	0.03
FillP	5	943.69	8.56	0.01
FillP-Sheep	5	932.90	4.69	0.01
Indigo	5	181.46	1.01	0.00
Indigo-MusesC3	5	243.16	1.08	0.01
Indigo-MusesC5	5	137.95	1.09	0.00
Indigo-MusesD	5	106.89	1.11	0.01
Indigo-MusesT	5	246.58	1.11	0.01
LEDBAT	5	581.53	5.28	0.01
PCC-Allegro	5	734.83	1.29	0.01
PCC-Expr	5	321.27	2.17	0.02
QUIC Cubic	5	92.71	1.00	0.01
SCReAM	5	0.22	1.11	0.03
Sprout	5	50.23	1.08	0.01
TaoVA-100x	5	74.70	1.02	0.01
TCP Vegas	5	252.65	1.14	0.01
Verus	5	290.88	2.52	0.01
PCC-Vivace	5	279.69	1.03	0.01
WebRTC media	5	0.05	1.13	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-19 05:36:35
End at: 2019-01-19 05:37:05
Local clock offset: -0.277 ms
Remote clock offset: 3.024 ms

# Below is generated by plot.py at 2019-01-19 08:02:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 798.58 Mbit/s
95th percentile per-packet one-way delay: 4.468 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 798.58 Mbit/s
95th percentile per-packet one-way delay: 4.468 ms
Loss rate: 0.02%
```

Run 1: Report of TCP BBR — Data Link

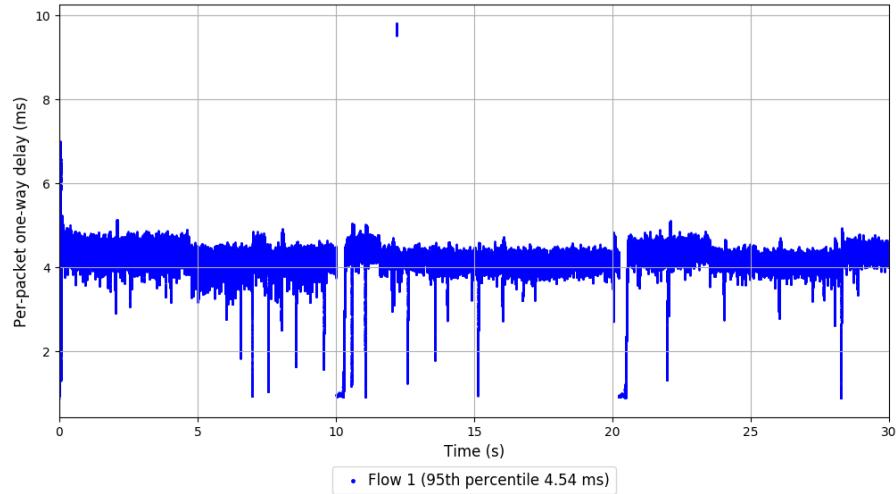
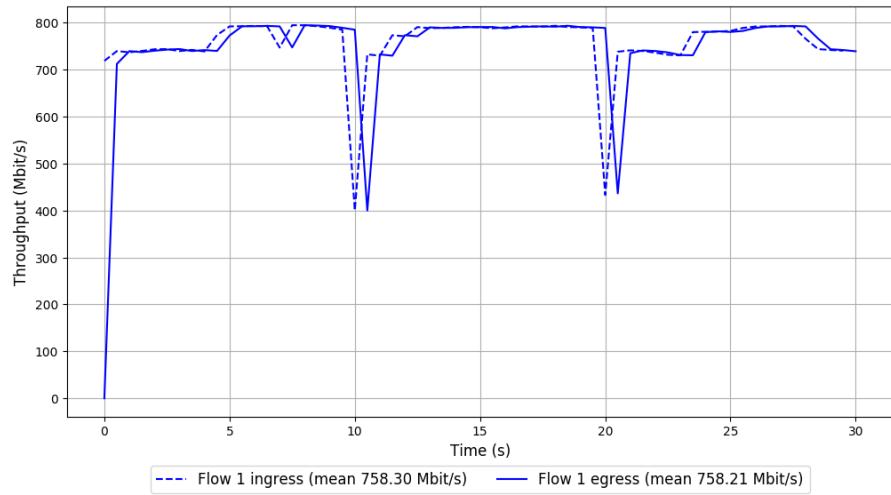


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-19 06:06:20
End at: 2019-01-19 06:06:50
Local clock offset: -0.149 ms
Remote clock offset: 0.179 ms

# Below is generated by plot.py at 2019-01-19 08:02:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 758.21 Mbit/s
95th percentile per-packet one-way delay: 4.541 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 758.21 Mbit/s
95th percentile per-packet one-way delay: 4.541 ms
Loss rate: 0.02%
```

Run 2: Report of TCP BBR — Data Link

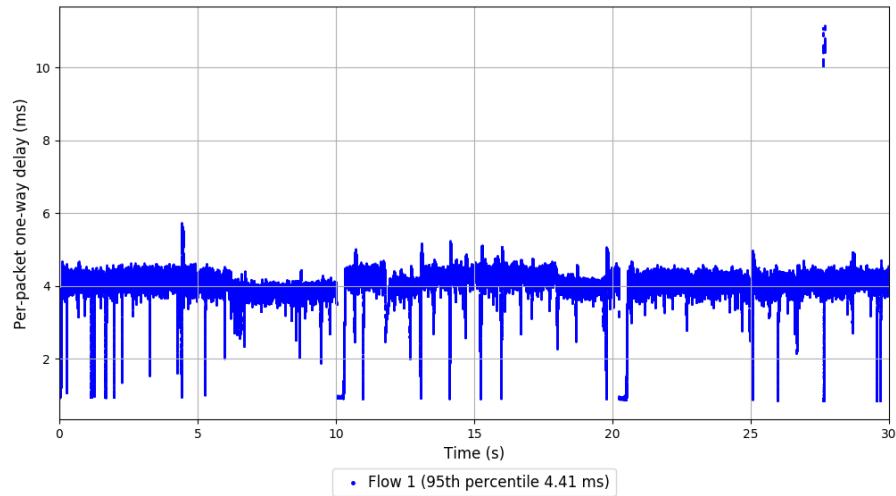
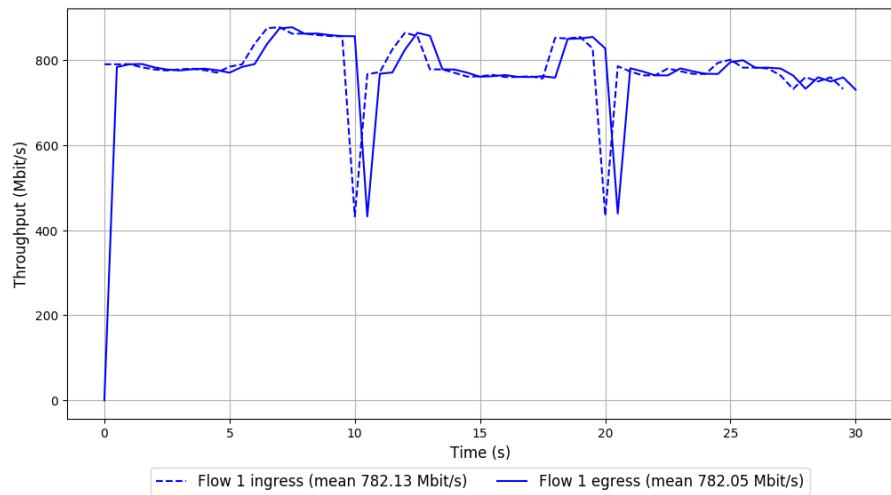


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-19 06:35:55
End at: 2019-01-19 06:36:25
Local clock offset: 3.017 ms
Remote clock offset: -2.99 ms

# Below is generated by plot.py at 2019-01-19 08:02:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 782.05 Mbit/s
95th percentile per-packet one-way delay: 4.414 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 782.05 Mbit/s
95th percentile per-packet one-way delay: 4.414 ms
Loss rate: 0.02%
```

Run 3: Report of TCP BBR — Data Link

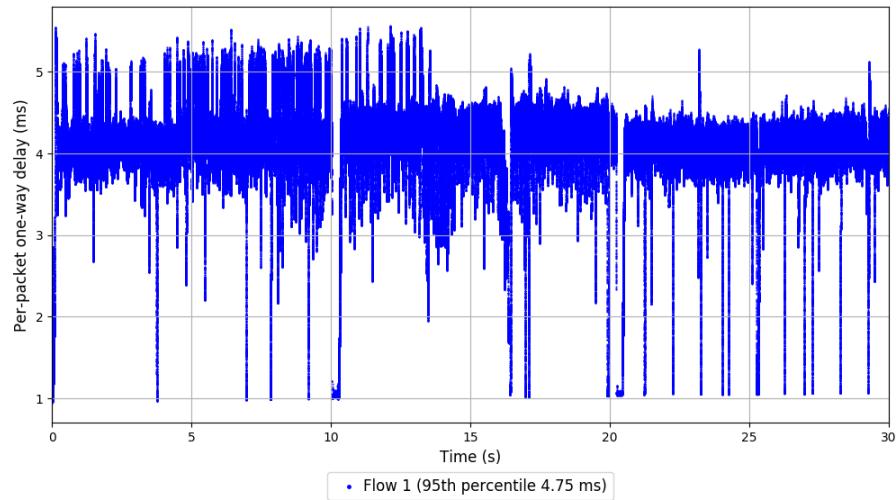
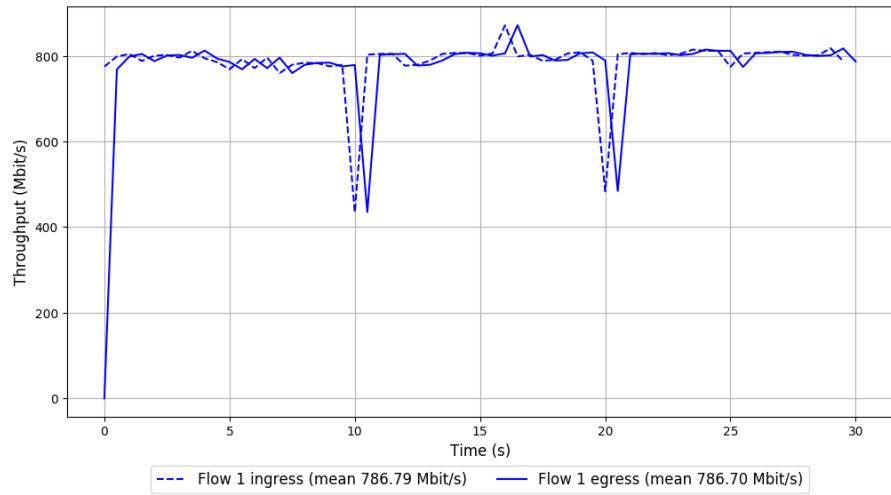


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-19 07:05:37
End at: 2019-01-19 07:06:07
Local clock offset: 4.573 ms
Remote clock offset: -1.629 ms

# Below is generated by plot.py at 2019-01-19 08:02:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 786.70 Mbit/s
95th percentile per-packet one-way delay: 4.745 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 786.70 Mbit/s
95th percentile per-packet one-way delay: 4.745 ms
Loss rate: 0.02%
```

Run 4: Report of TCP BBR — Data Link

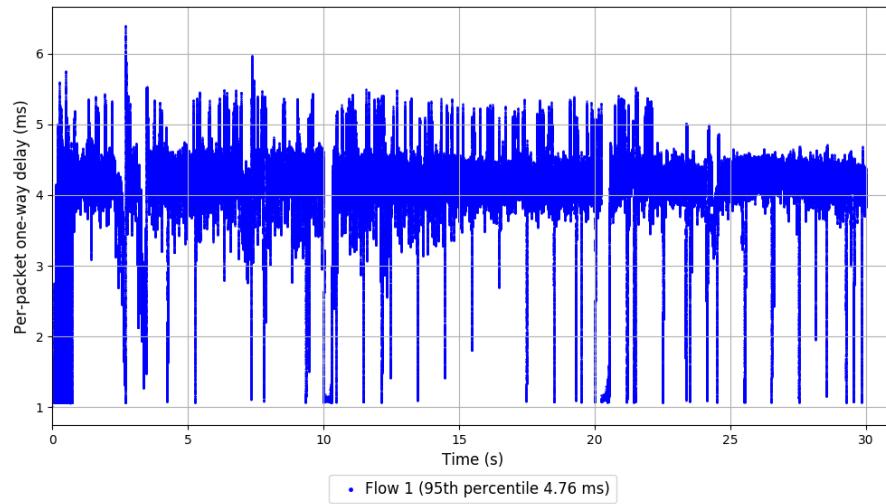
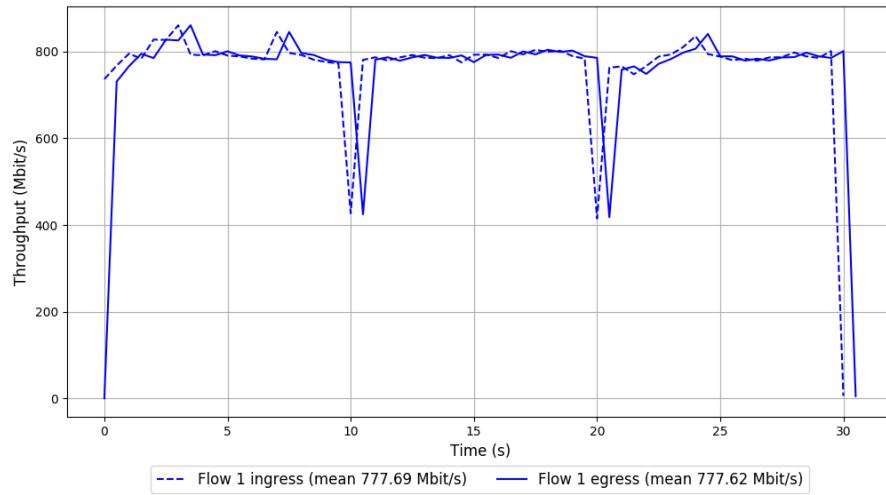


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-19 07:35:27
End at: 2019-01-19 07:35:57
Local clock offset: -0.117 ms
Remote clock offset: 1.069 ms

# Below is generated by plot.py at 2019-01-19 08:02:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 777.62 Mbit/s
95th percentile per-packet one-way delay: 4.759 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 777.62 Mbit/s
95th percentile per-packet one-way delay: 4.759 ms
Loss rate: 0.02%
```

Run 5: Report of TCP BBR — Data Link

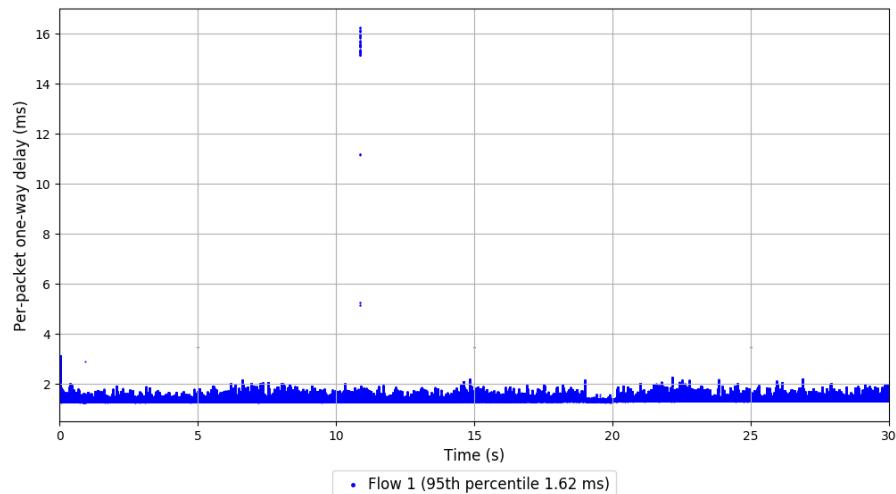
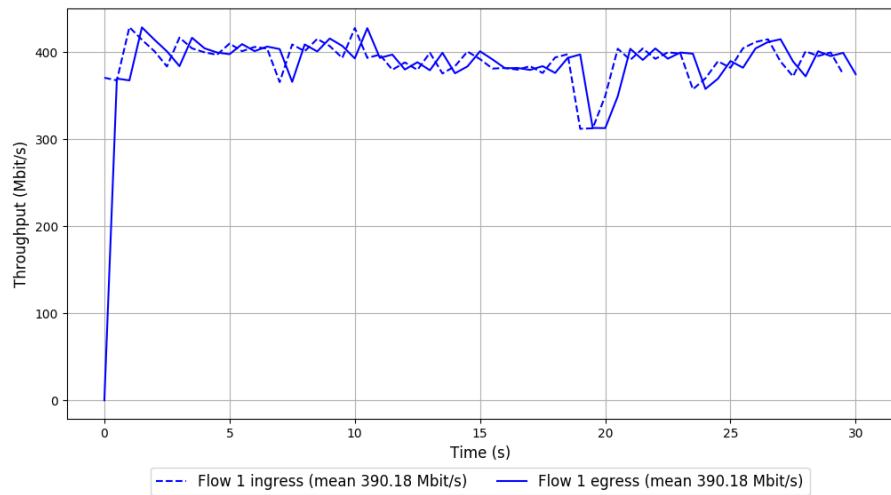


Run 1: Statistics of Copa

```
Start at: 2019-01-19 05:33:38
End at: 2019-01-19 05:34:08
Local clock offset: -0.26 ms
Remote clock offset: 2.649 ms

# Below is generated by plot.py at 2019-01-19 08:02:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.18 Mbit/s
95th percentile per-packet one-way delay: 1.623 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 390.18 Mbit/s
95th percentile per-packet one-way delay: 1.623 ms
Loss rate: 0.01%
```

Run 1: Report of Copa — Data Link

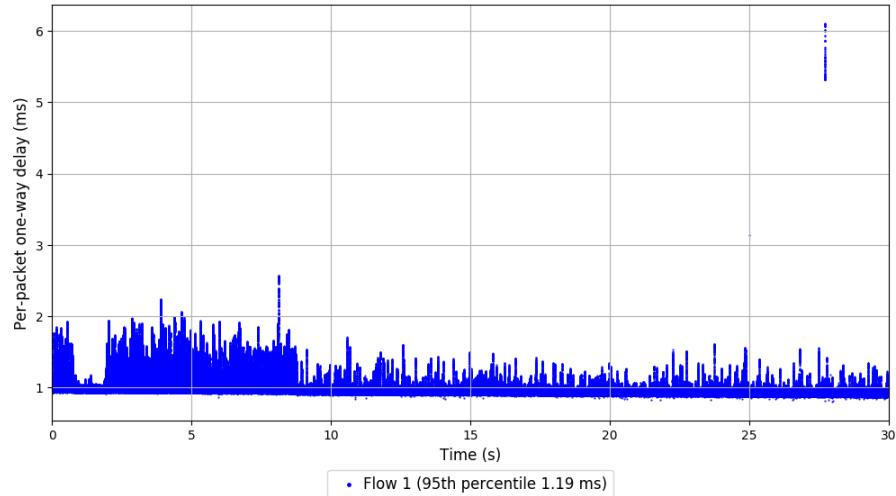
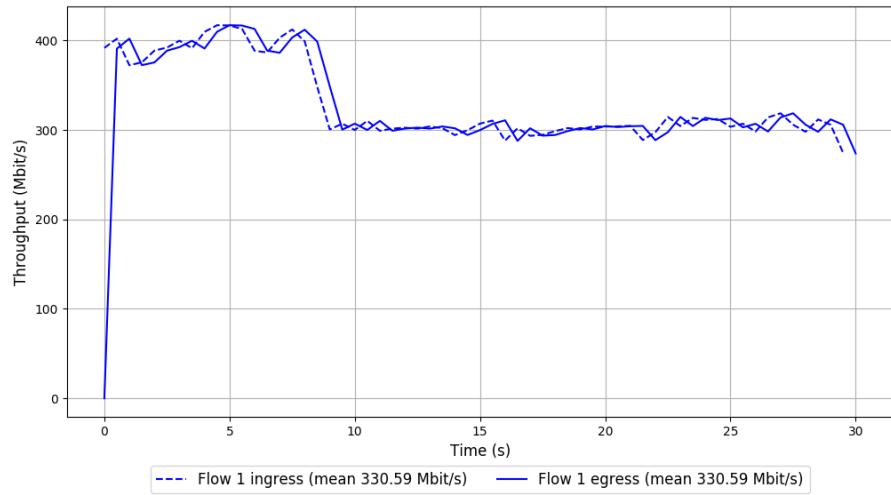


Run 2: Statistics of Copa

```
Start at: 2019-01-19 06:03:26
End at: 2019-01-19 06:03:56
Local clock offset: -0.158 ms
Remote clock offset: 0.452 ms

# Below is generated by plot.py at 2019-01-19 08:02:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.59 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 330.59 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 0.01%
```

Run 2: Report of Copa — Data Link

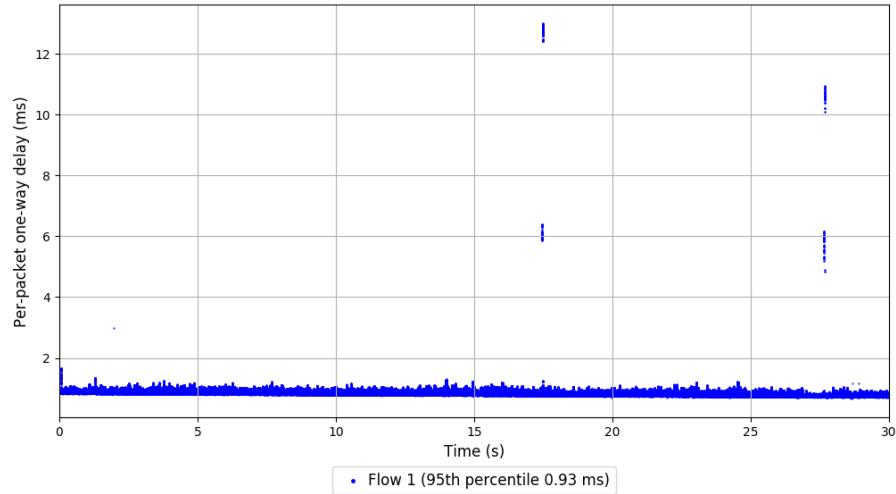
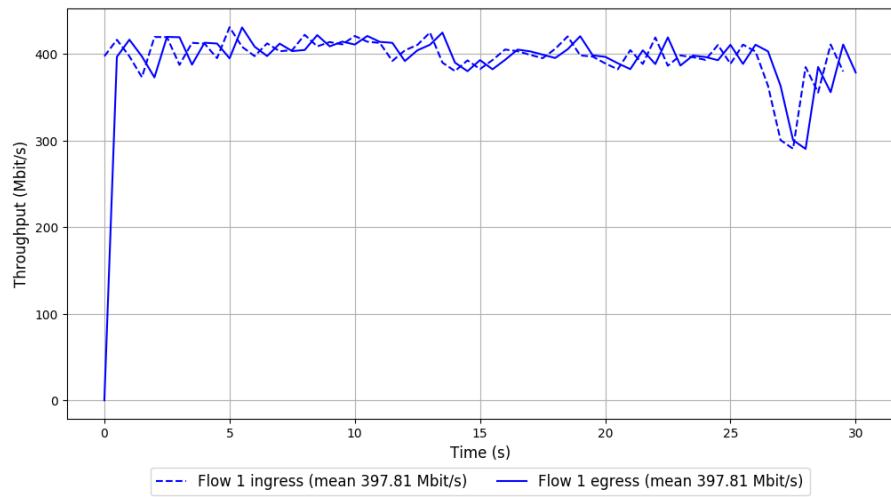


Run 3: Statistics of Copa

```
Start at: 2019-01-19 06:33:00
End at: 2019-01-19 06:33:30
Local clock offset: 2.744 ms
Remote clock offset: -2.504 ms

# Below is generated by plot.py at 2019-01-19 08:02:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 397.81 Mbit/s
95th percentile per-packet one-way delay: 0.930 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 397.81 Mbit/s
95th percentile per-packet one-way delay: 0.930 ms
Loss rate: 0.01%
```

Run 3: Report of Copa — Data Link

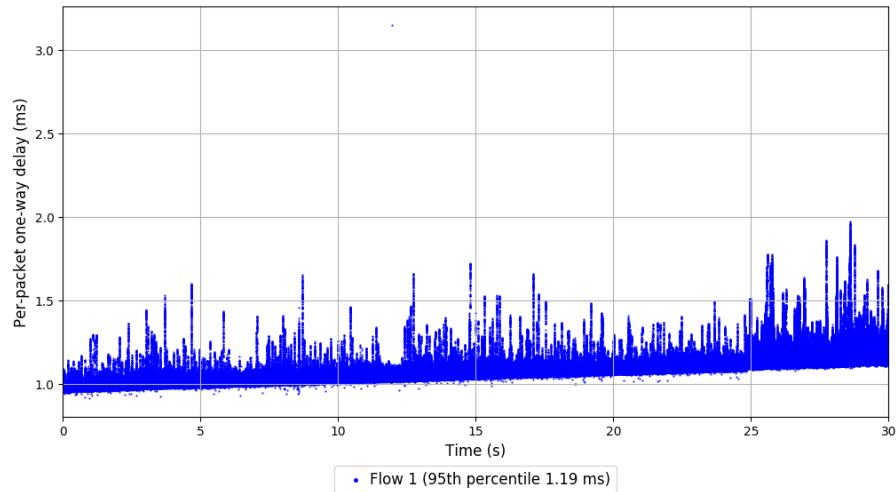
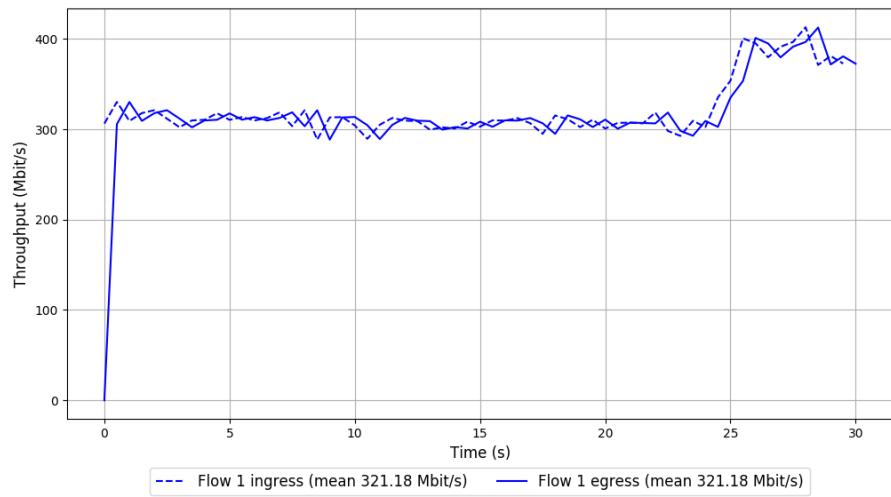


Run 4: Statistics of Copa

```
Start at: 2019-01-19 07:02:45
End at: 2019-01-19 07:03:15
Local clock offset: 4.469 ms
Remote clock offset: -2.529 ms

# Below is generated by plot.py at 2019-01-19 08:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 321.18 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 321.18 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 0.01%
```

Run 4: Report of Copa — Data Link

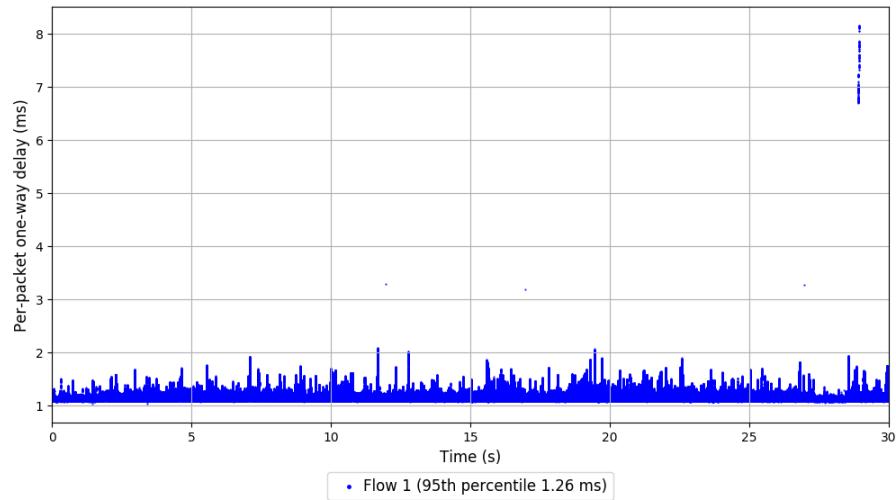
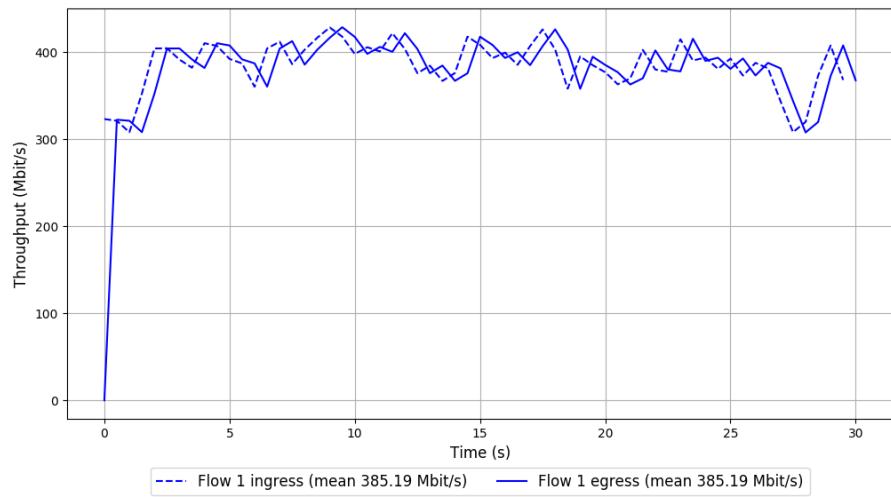


Run 5: Statistics of Copa

```
Start at: 2019-01-19 07:32:29
End at: 2019-01-19 07:32:59
Local clock offset: 0.394 ms
Remote clock offset: 1.529 ms

# Below is generated by plot.py at 2019-01-19 08:10:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 385.19 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 385.19 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.01%
```

Run 5: Report of Copa — Data Link

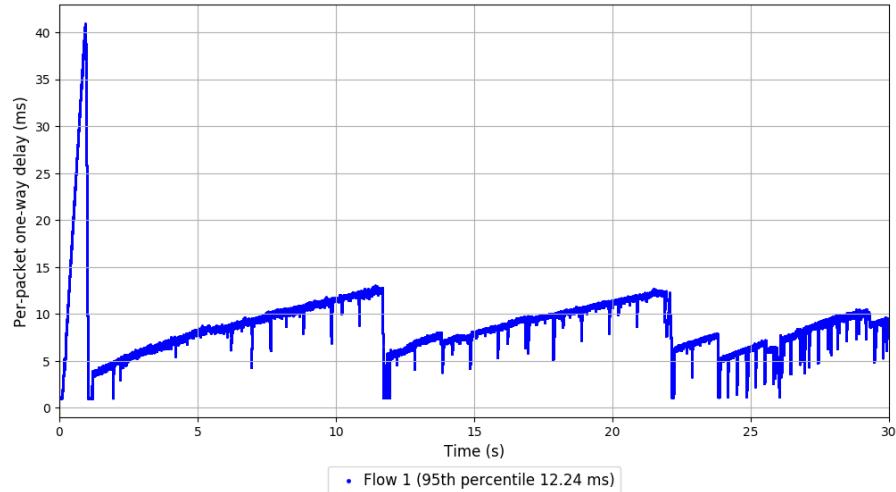
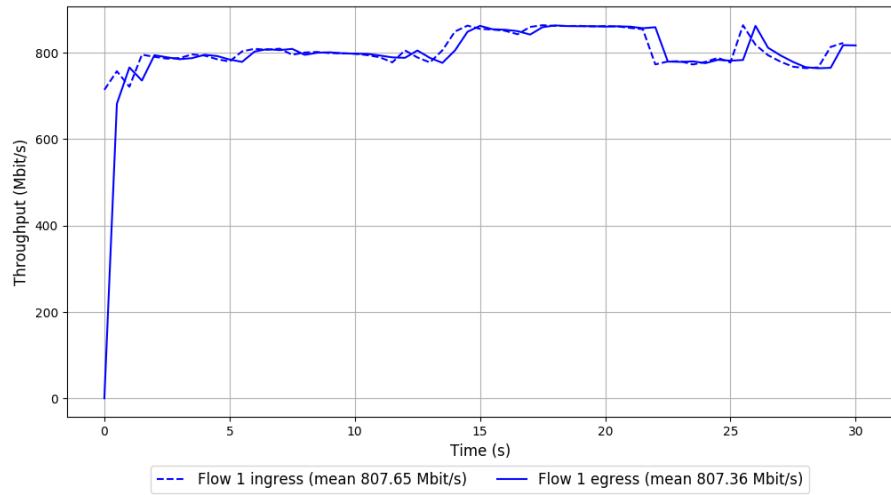


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-19 05:21:20
End at: 2019-01-19 05:21:50
Local clock offset: -0.378 ms
Remote clock offset: 0.361 ms

# Below is generated by plot.py at 2019-01-19 08:10:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 807.36 Mbit/s
95th percentile per-packet one-way delay: 12.242 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 807.36 Mbit/s
95th percentile per-packet one-way delay: 12.242 ms
Loss rate: 0.04%
```

Run 1: Report of TCP Cubic — Data Link

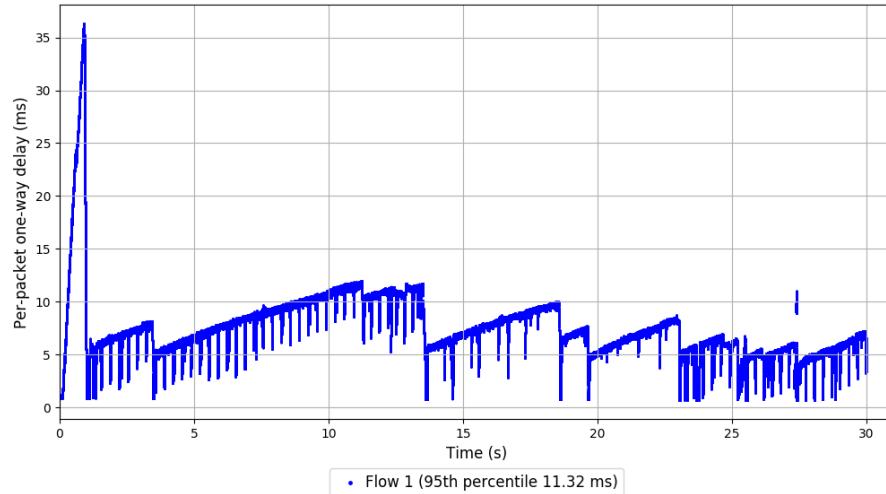
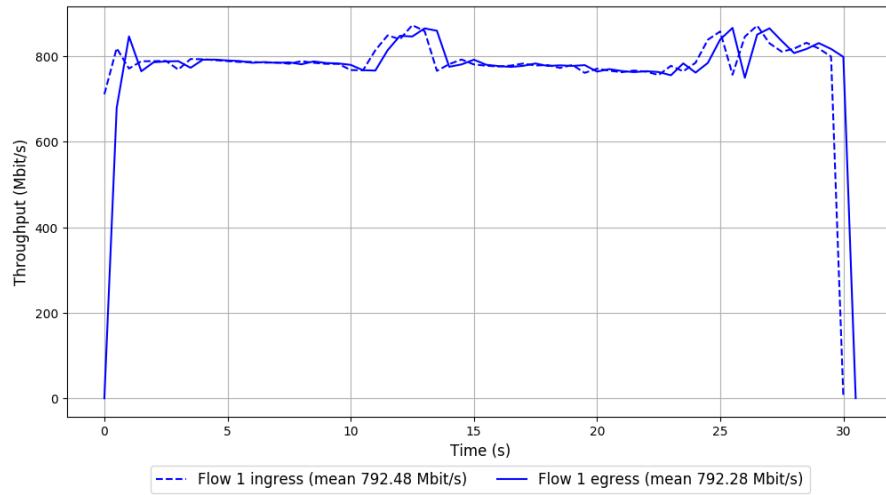


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-19 05:51:04
End at: 2019-01-19 05:51:34
Local clock offset: -0.302 ms
Remote clock offset: 3.415 ms

# Below is generated by plot.py at 2019-01-19 08:10:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 792.28 Mbit/s
95th percentile per-packet one-way delay: 11.322 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 792.28 Mbit/s
95th percentile per-packet one-way delay: 11.322 ms
Loss rate: 0.03%
```

Run 2: Report of TCP Cubic — Data Link

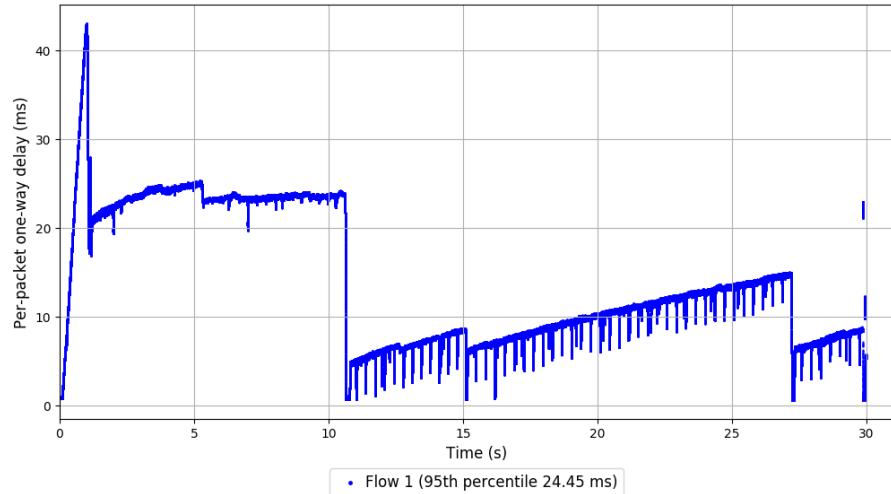
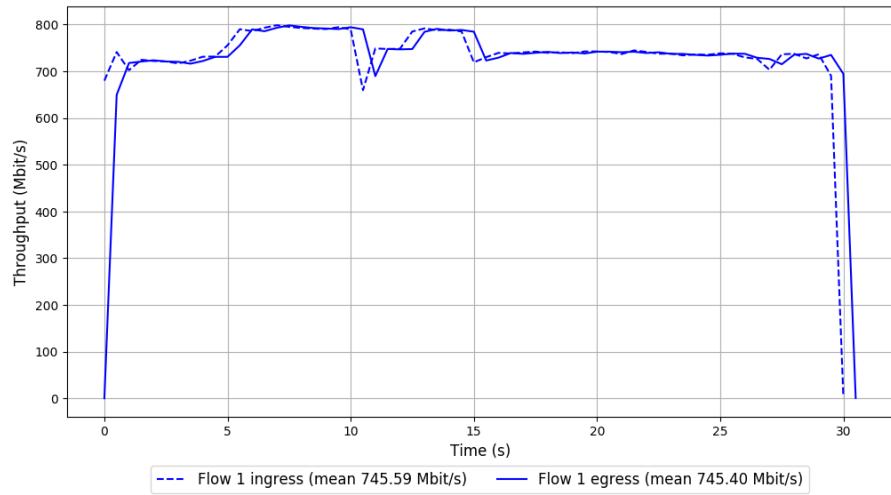


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-19 06:20:43
End at: 2019-01-19 06:21:13
Local clock offset: 0.237 ms
Remote clock offset: -0.555 ms

# Below is generated by plot.py at 2019-01-19 08:10:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 745.40 Mbit/s
95th percentile per-packet one-way delay: 24.445 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 745.40 Mbit/s
95th percentile per-packet one-way delay: 24.445 ms
Loss rate: 0.03%
```

Run 3: Report of TCP Cubic — Data Link

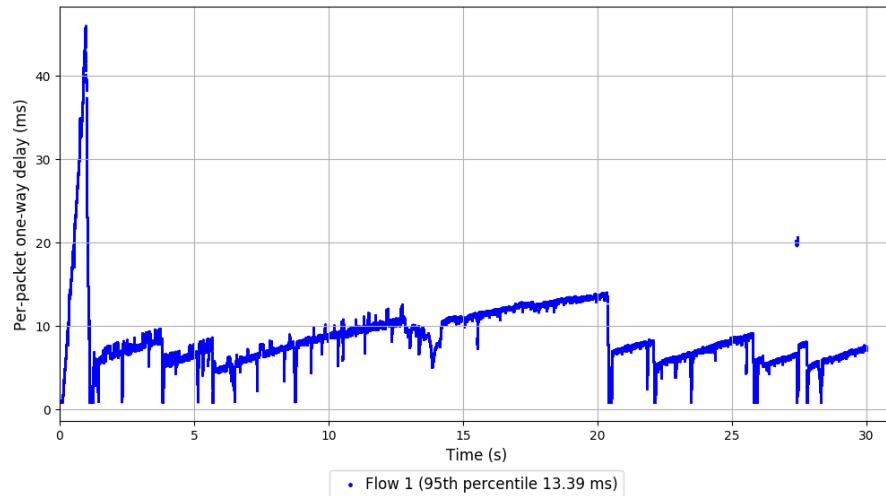
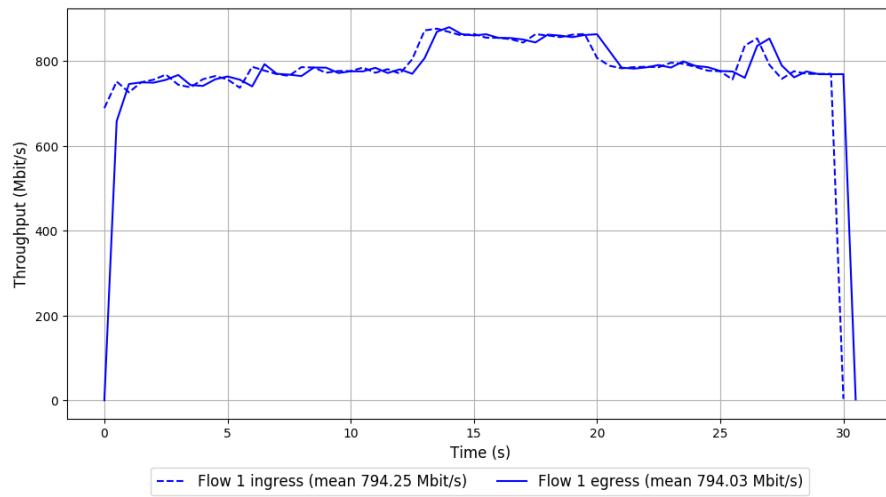


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-19 06:50:23
End at: 2019-01-19 06:50:53
Local clock offset: 3.936 ms
Remote clock offset: -4.171 ms

# Below is generated by plot.py at 2019-01-19 08:10:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 794.03 Mbit/s
95th percentile per-packet one-way delay: 13.386 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 794.03 Mbit/s
95th percentile per-packet one-way delay: 13.386 ms
Loss rate: 0.03%
```

Run 4: Report of TCP Cubic — Data Link

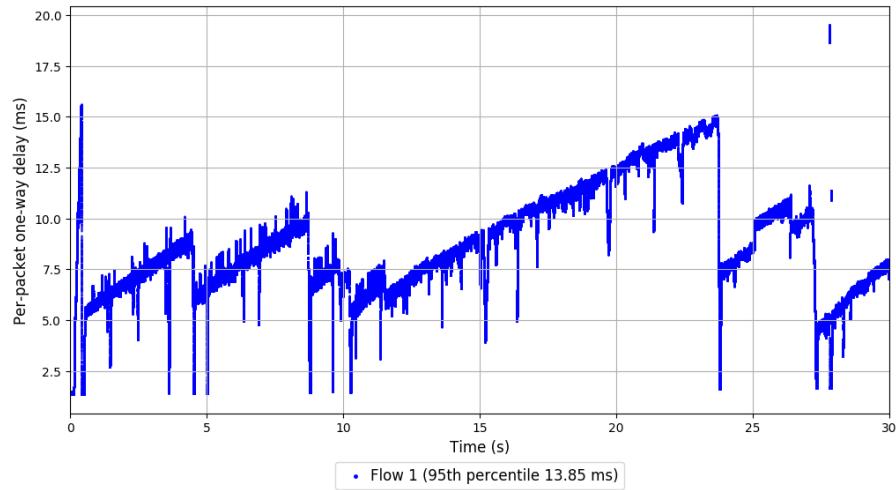
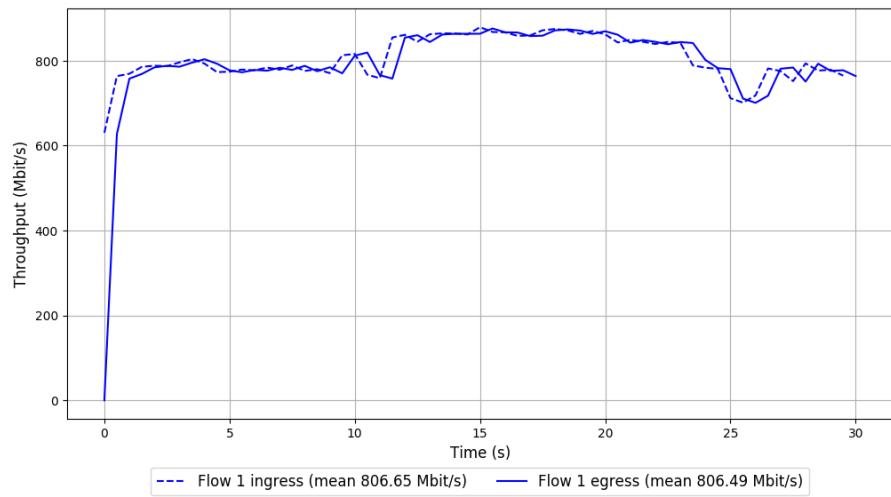


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-19 07:20:03
End at: 2019-01-19 07:20:33
Local clock offset: 4.835 ms
Remote clock offset: 0.668 ms

# Below is generated by plot.py at 2019-01-19 08:11:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 806.49 Mbit/s
95th percentile per-packet one-way delay: 13.849 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 806.49 Mbit/s
95th percentile per-packet one-way delay: 13.849 ms
Loss rate: 0.03%
```

Run 5: Report of TCP Cubic — Data Link

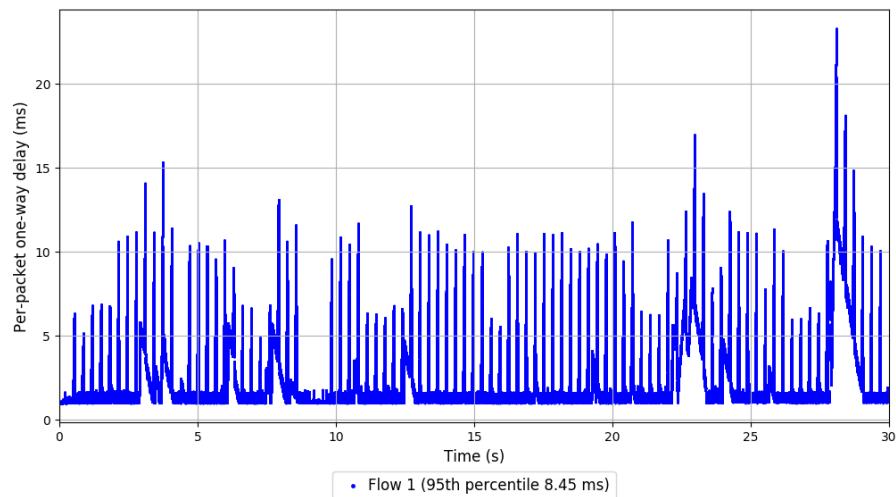
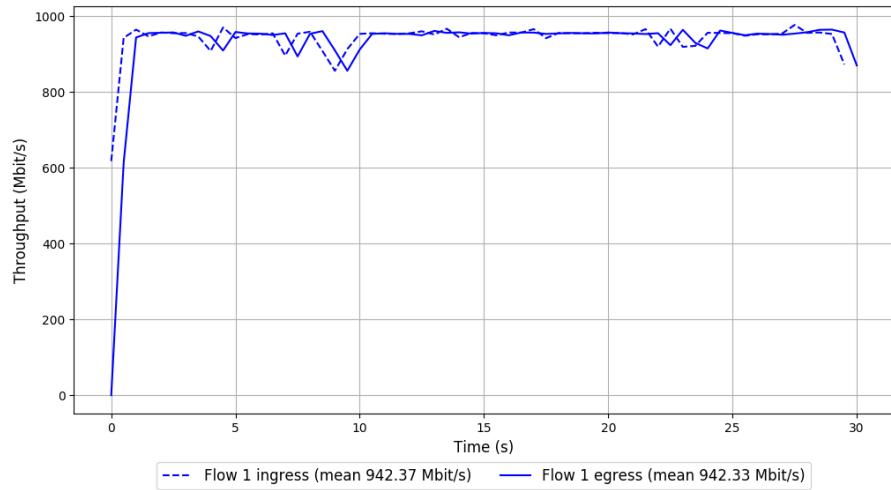


```
Run 1: Statistics of FillP

Start at: 2019-01-19 05:45:18
End at: 2019-01-19 05:45:48
Local clock offset: -0.305 ms
Remote clock offset: 3.59 ms

# Below is generated by plot.py at 2019-01-19 08:14:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 942.33 Mbit/s
95th percentile per-packet one-way delay: 8.448 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 942.33 Mbit/s
95th percentile per-packet one-way delay: 8.448 ms
Loss rate: 0.01%
```

Run 1: Report of FillP — Data Link

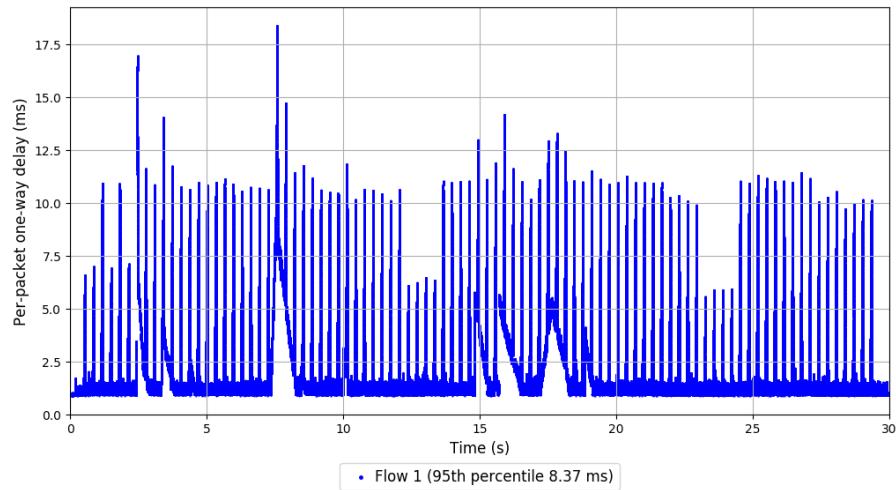
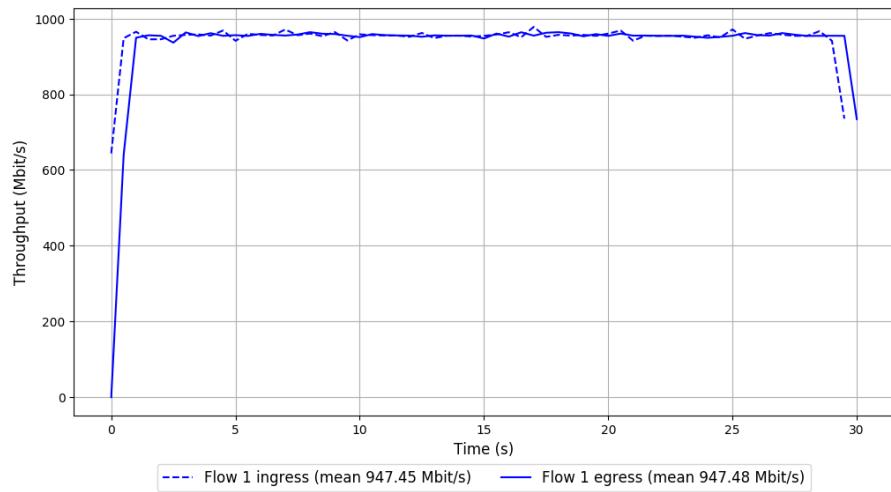


```
Run 2: Statistics of FillP
```

```
Start at: 2019-01-19 06:14:57
End at: 2019-01-19 06:15:27
Local clock offset: -0.181 ms
Remote clock offset: -0.371 ms

# Below is generated by plot.py at 2019-01-19 08:21:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 947.48 Mbit/s
95th percentile per-packet one-way delay: 8.368 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 947.48 Mbit/s
95th percentile per-packet one-way delay: 8.368 ms
Loss rate: 0.01%
```

Run 2: Report of FillP — Data Link

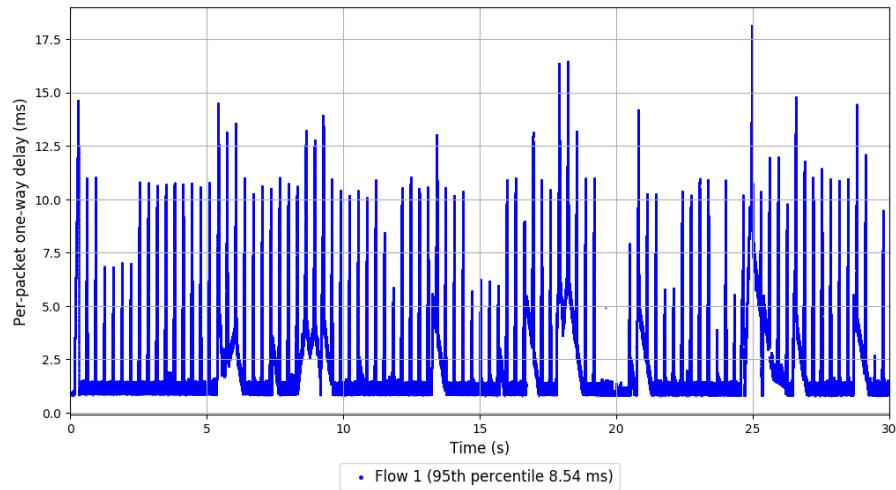
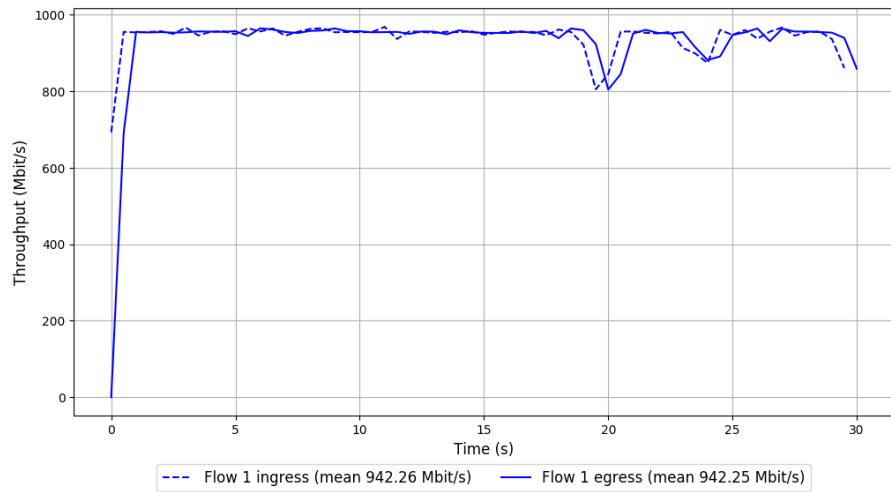


Run 3: Statistics of FillP

```
Start at: 2019-01-19 06:44:37
End at: 2019-01-19 06:45:07
Local clock offset: 3.635 ms
Remote clock offset: -3.72 ms

# Below is generated by plot.py at 2019-01-19 08:22:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 942.25 Mbit/s
95th percentile per-packet one-way delay: 8.536 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 942.25 Mbit/s
95th percentile per-packet one-way delay: 8.536 ms
Loss rate: 0.01%
```

Run 3: Report of FillP — Data Link

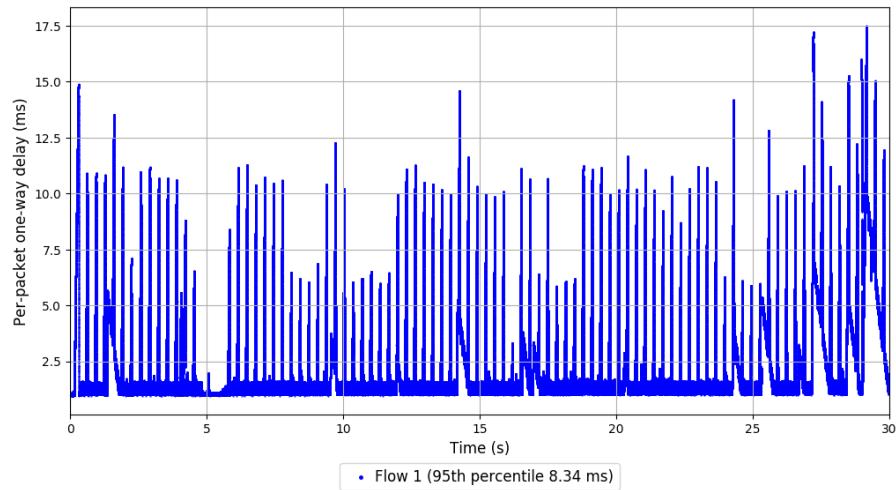
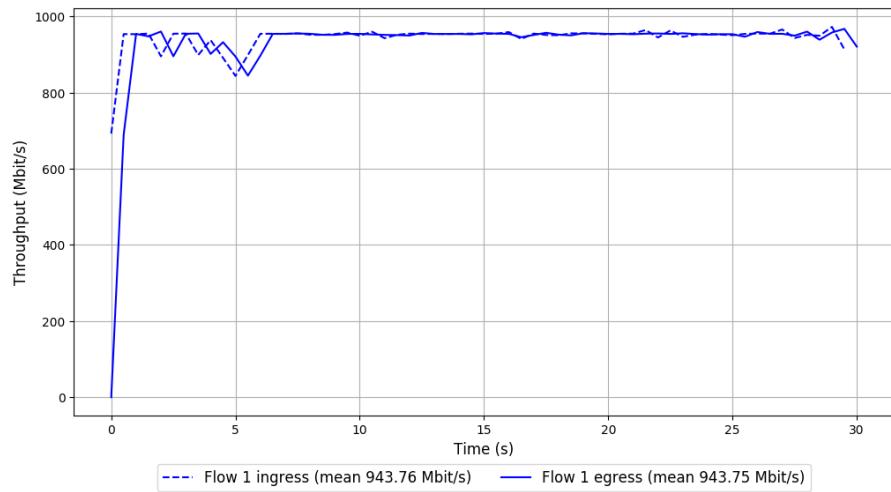


```
Run 4: Statistics of FillP
```

```
Start at: 2019-01-19 07:14:22
End at: 2019-01-19 07:14:52
Local clock offset: 4.95 ms
Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-01-19 08:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 943.75 Mbit/s
95th percentile per-packet one-way delay: 8.335 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 943.75 Mbit/s
95th percentile per-packet one-way delay: 8.335 ms
Loss rate: 0.01%
```

Run 4: Report of FillP — Data Link

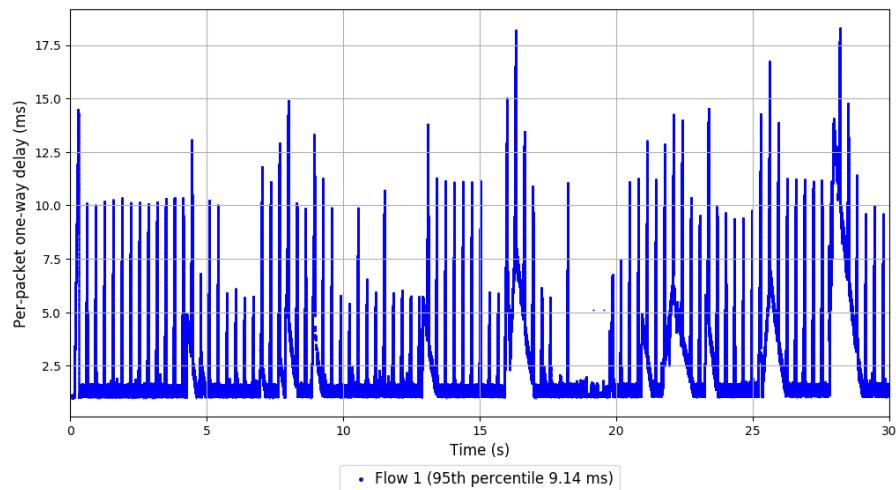
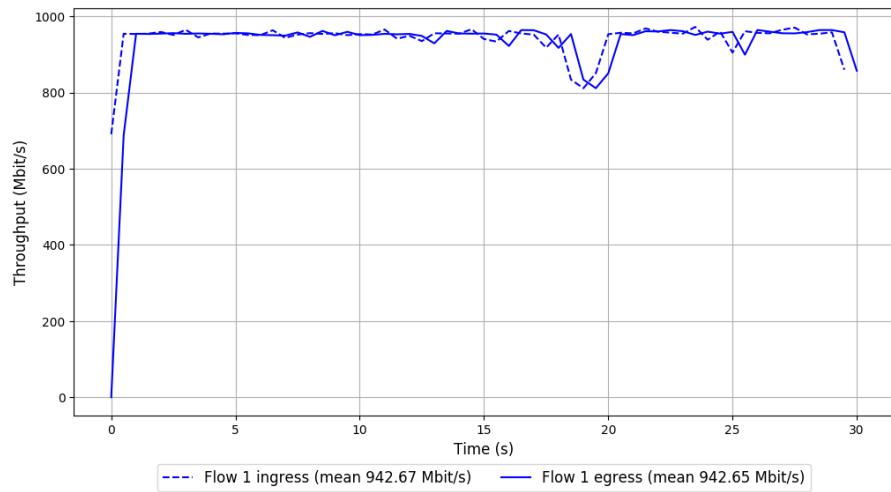


```
Run 5: Statistics of FillP
```

```
Start at: 2019-01-19 07:44:08
End at: 2019-01-19 07:44:38
Local clock offset: -1.125 ms
Remote clock offset: 0.421 ms

# Below is generated by plot.py at 2019-01-19 08:22:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 942.65 Mbit/s
95th percentile per-packet one-way delay: 9.137 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 942.65 Mbit/s
95th percentile per-packet one-way delay: 9.137 ms
Loss rate: 0.01%
```

Run 5: Report of FillP — Data Link

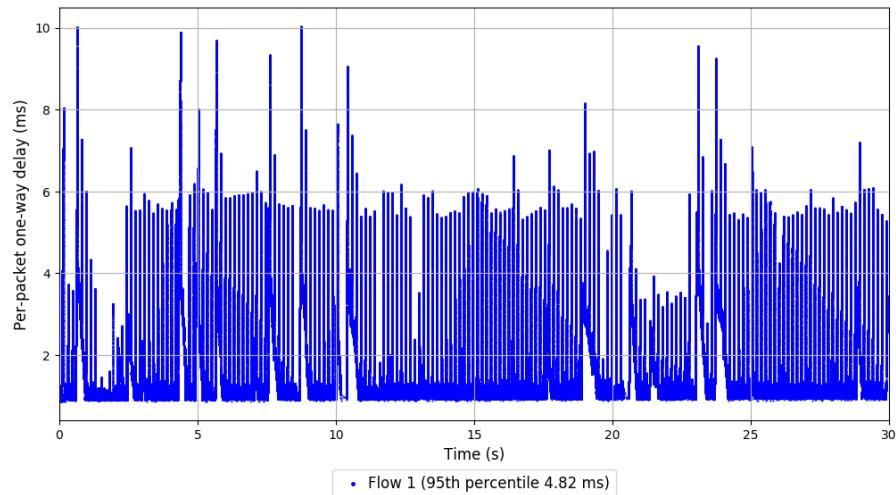
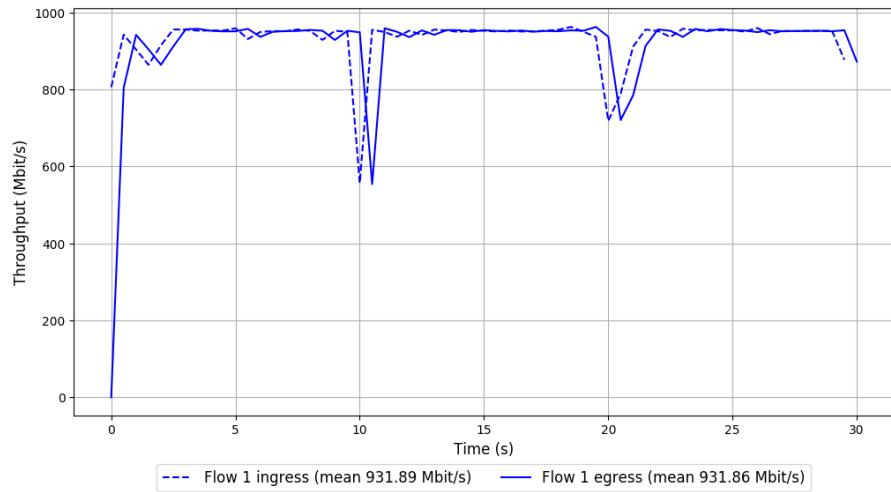


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-19 05:46:55
End at: 2019-01-19 05:47:25
Local clock offset: -0.32 ms
Remote clock offset: 3.797 ms

# Below is generated by plot.py at 2019-01-19 08:22:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 931.86 Mbit/s
95th percentile per-packet one-way delay: 4.819 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 931.86 Mbit/s
95th percentile per-packet one-way delay: 4.819 ms
Loss rate: 0.01%
```

Run 1: Report of FillP-Sheep — Data Link

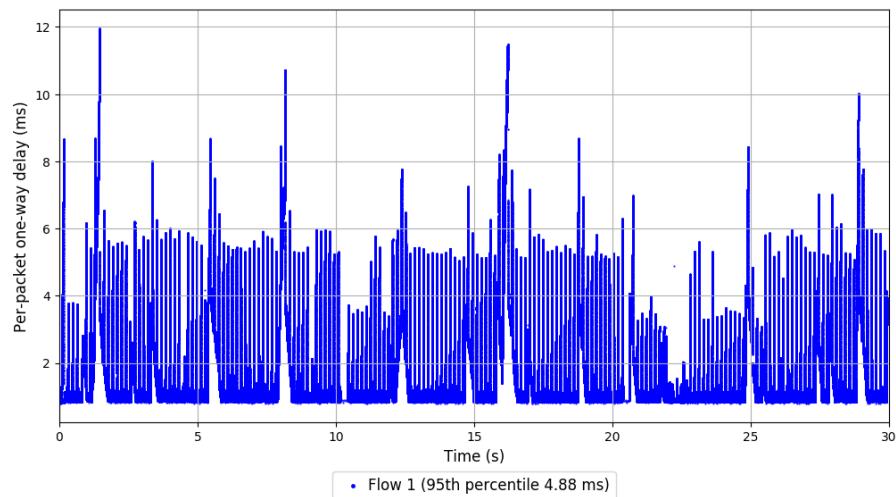
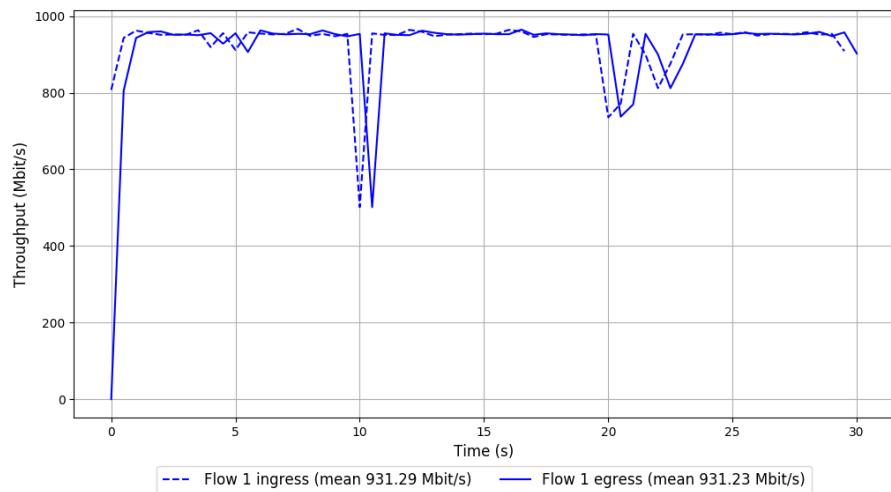


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-19 06:16:35
End at: 2019-01-19 06:17:05
Local clock offset: -0.171 ms
Remote clock offset: -0.32 ms

# Below is generated by plot.py at 2019-01-19 08:23:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 931.23 Mbit/s
95th percentile per-packet one-way delay: 4.882 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 931.23 Mbit/s
95th percentile per-packet one-way delay: 4.882 ms
Loss rate: 0.01%
```

Run 2: Report of FillP-Sheep — Data Link

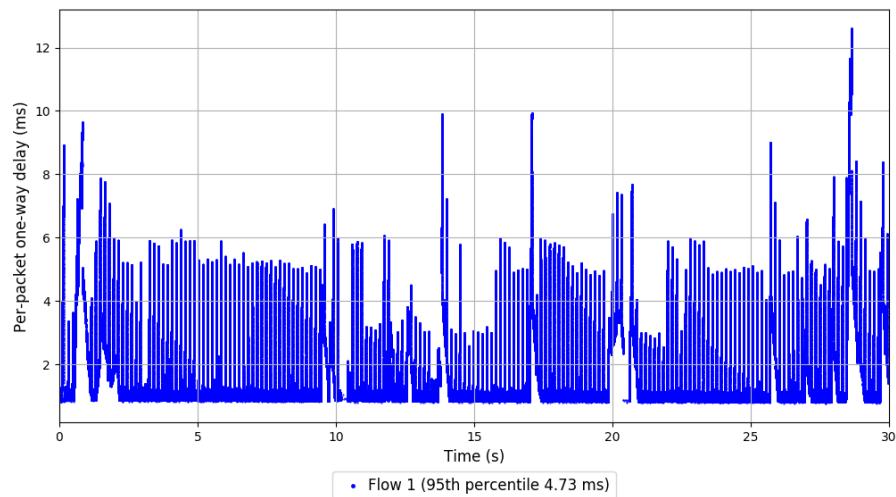
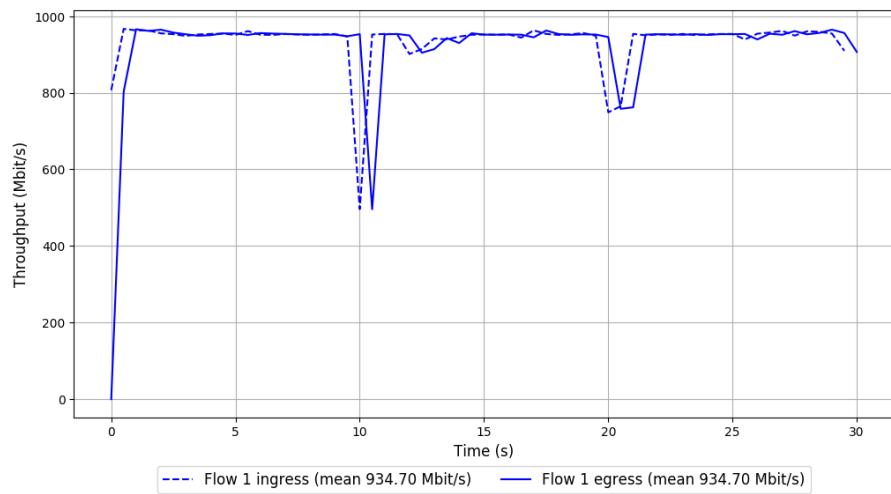


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-19 06:46:15
End at: 2019-01-19 06:46:45
Local clock offset: 3.724 ms
Remote clock offset: -3.816 ms

# Below is generated by plot.py at 2019-01-19 08:23:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 934.70 Mbit/s
95th percentile per-packet one-way delay: 4.726 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 934.70 Mbit/s
95th percentile per-packet one-way delay: 4.726 ms
Loss rate: 0.01%
```

Run 3: Report of FillP-Sheep — Data Link

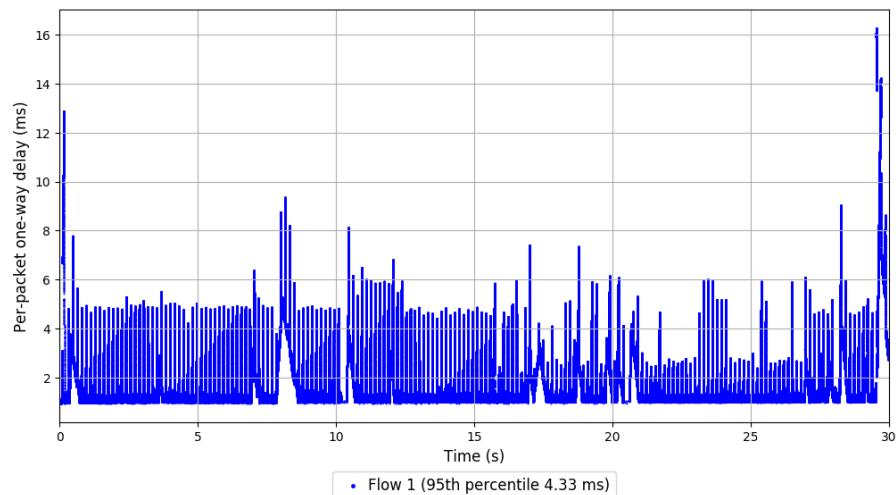
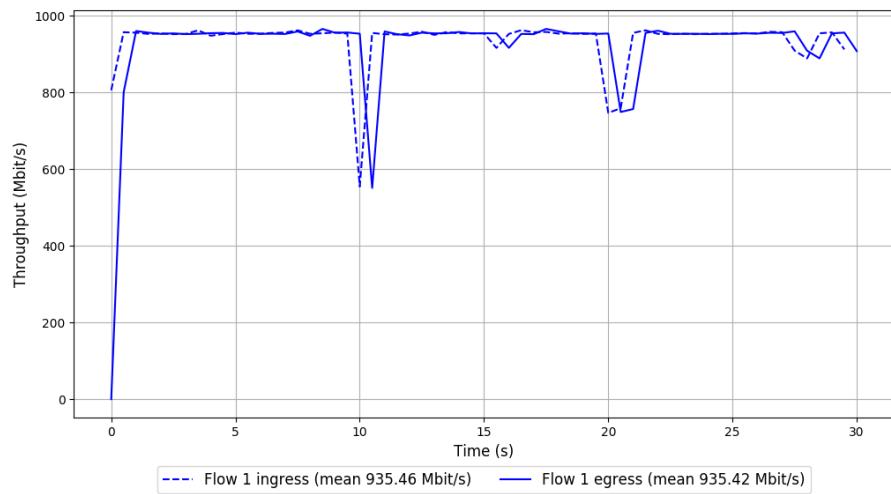


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-19 07:15:59
End at: 2019-01-19 07:16:29
Local clock offset: 5.002 ms
Remote clock offset: 0.229 ms

# Below is generated by plot.py at 2019-01-19 08:28:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 935.42 Mbit/s
95th percentile per-packet one-way delay: 4.334 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 935.42 Mbit/s
95th percentile per-packet one-way delay: 4.334 ms
Loss rate: 0.01%
```

Run 4: Report of FillP-Sheep — Data Link

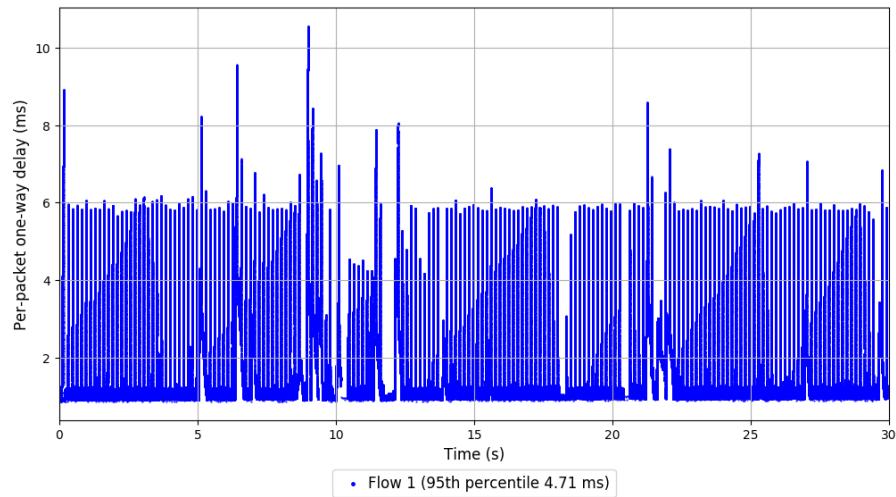
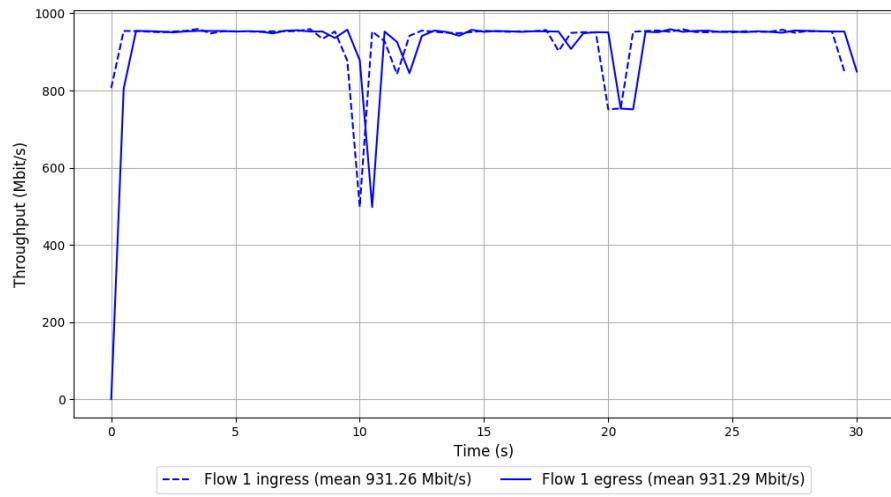


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-19 07:45:45
End at: 2019-01-19 07:46:15
Local clock offset: -1.272 ms
Remote clock offset: 0.507 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 931.29 Mbit/s
95th percentile per-packet one-way delay: 4.713 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 931.29 Mbit/s
95th percentile per-packet one-way delay: 4.713 ms
Loss rate: 0.01%
```

Run 5: Report of FillP-Sheep — Data Link

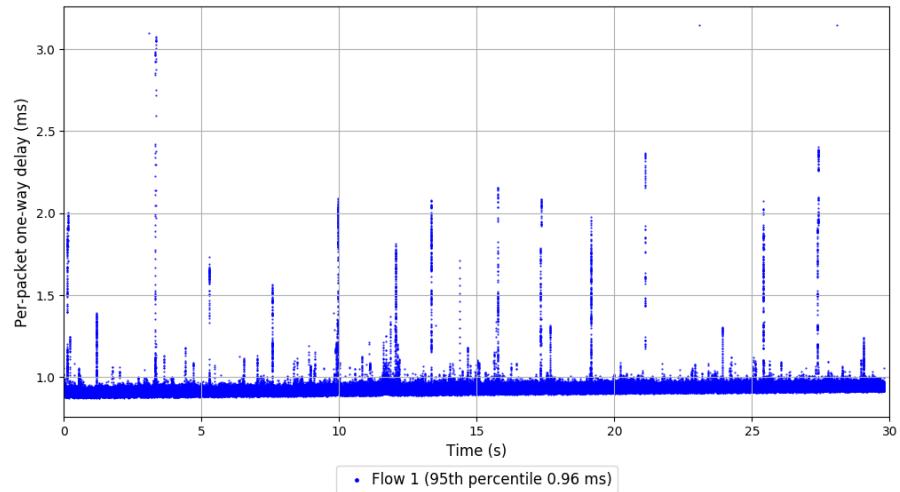
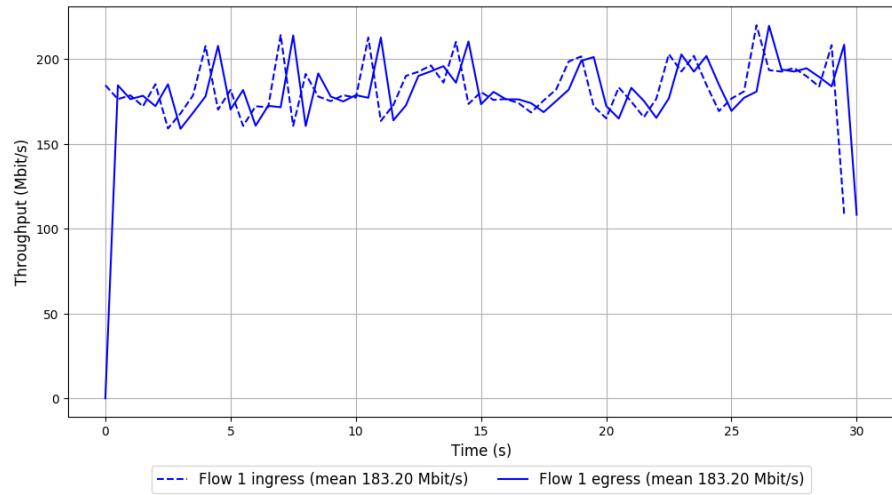


Run 1: Statistics of Indigo

```
Start at: 2019-01-19 05:39:45
End at: 2019-01-19 05:40:15
Local clock offset: -0.281 ms
Remote clock offset: 3.334 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.20 Mbit/s
95th percentile per-packet one-way delay: 0.956 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 183.20 Mbit/s
95th percentile per-packet one-way delay: 0.956 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link

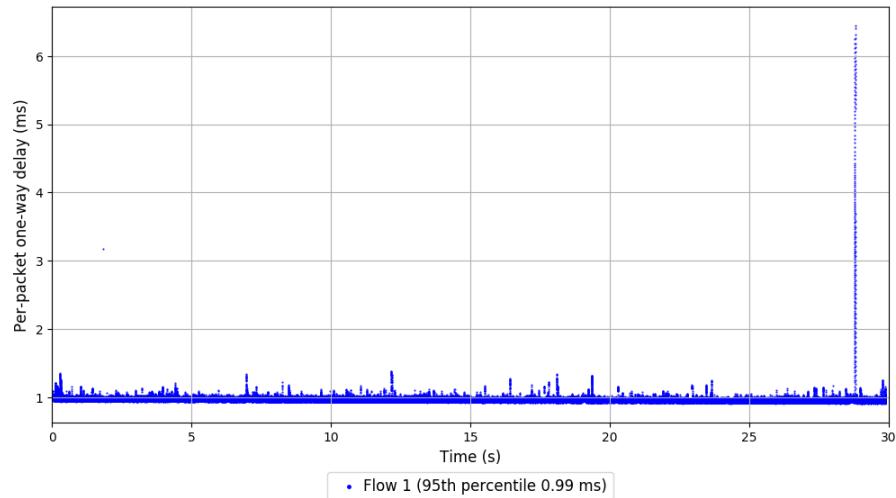
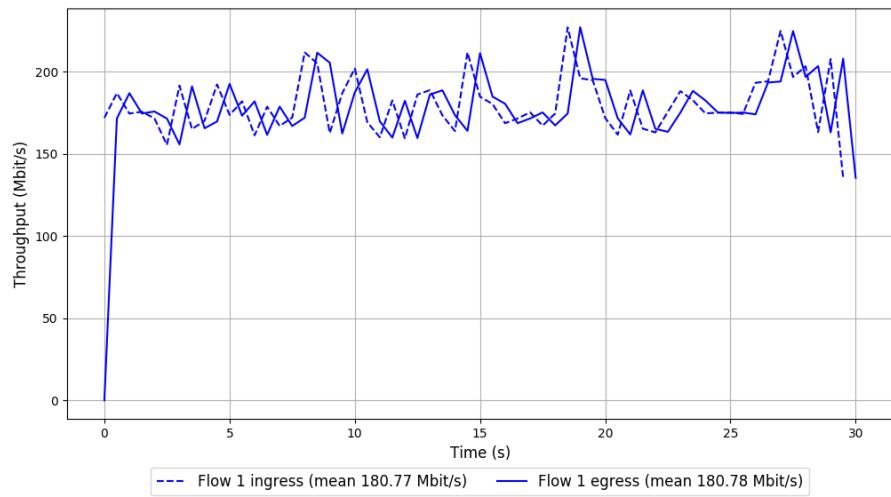


Run 2: Statistics of Indigo

```
Start at: 2019-01-19 06:09:30
End at: 2019-01-19 06:10:00
Local clock offset: -0.136 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.78 Mbit/s
95th percentile per-packet one-way delay: 0.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 180.78 Mbit/s
95th percentile per-packet one-way delay: 0.989 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

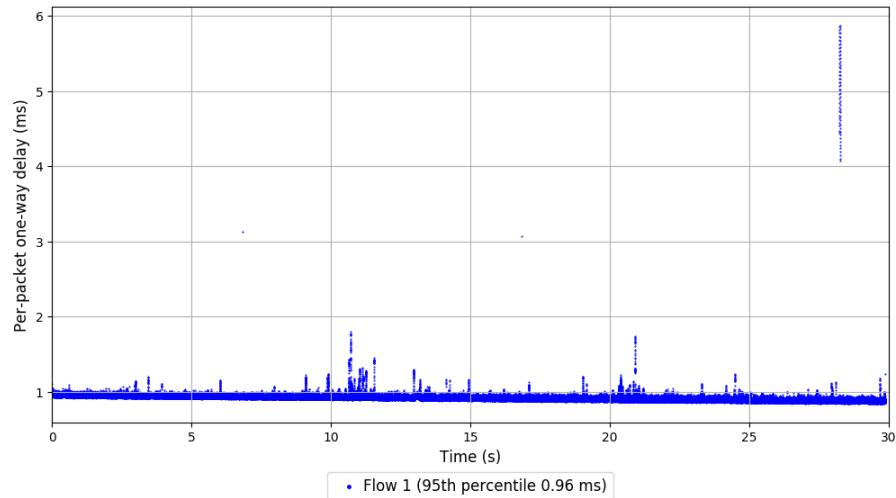
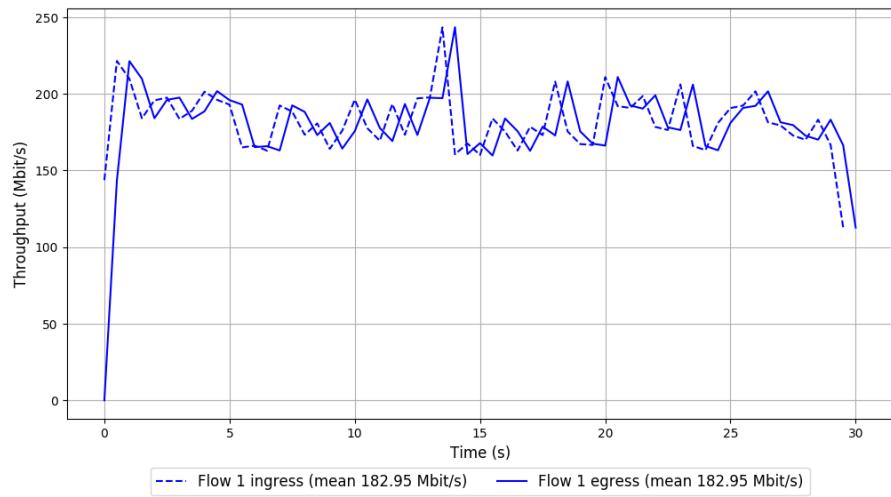


Run 3: Statistics of Indigo

```
Start at: 2019-01-19 06:39:06
End at: 2019-01-19 06:39:36
Local clock offset: 3.279 ms
Remote clock offset: -3.301 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.95 Mbit/s
95th percentile per-packet one-way delay: 0.962 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 182.95 Mbit/s
95th percentile per-packet one-way delay: 0.962 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo — Data Link

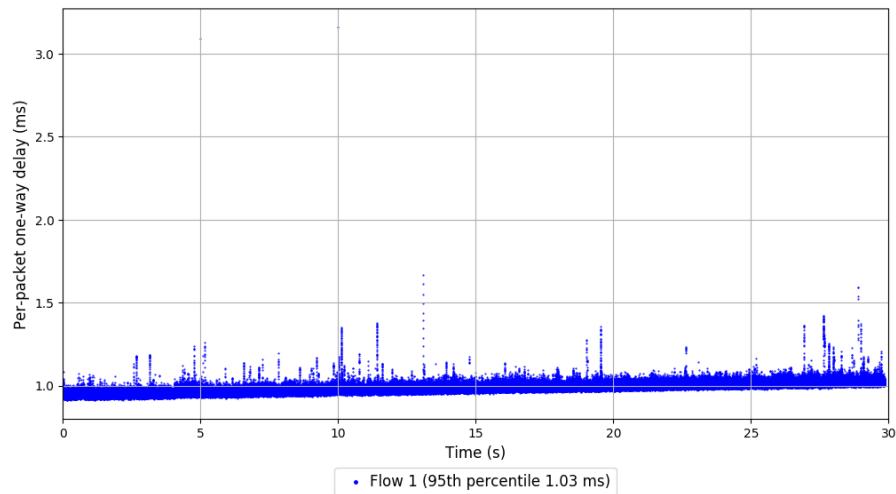
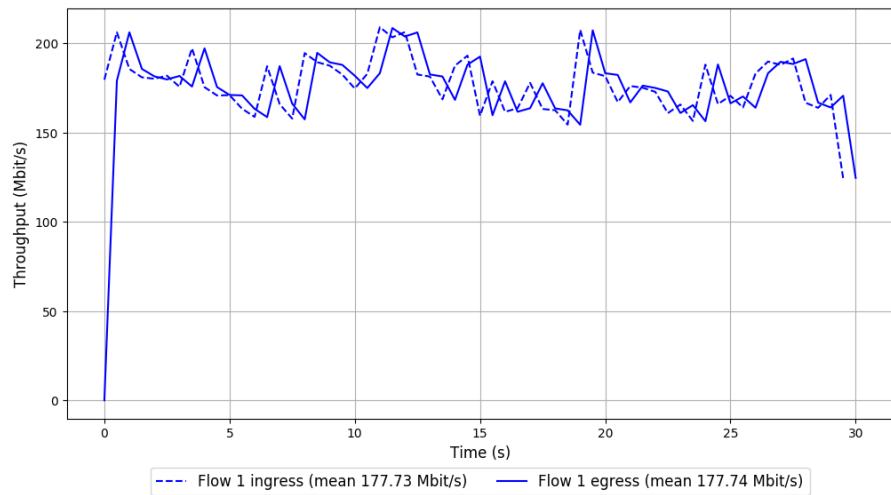


Run 4: Statistics of Indigo

```
Start at: 2019-01-19 07:08:47
End at: 2019-01-19 07:09:17
Local clock offset: 4.732 ms
Remote clock offset: -0.793 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.74 Mbit/s
95th percentile per-packet one-way delay: 1.028 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 177.74 Mbit/s
95th percentile per-packet one-way delay: 1.028 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

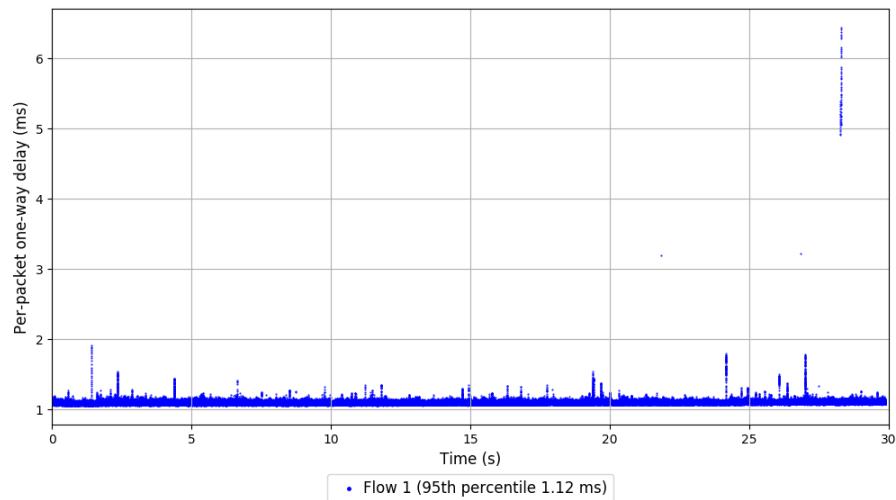
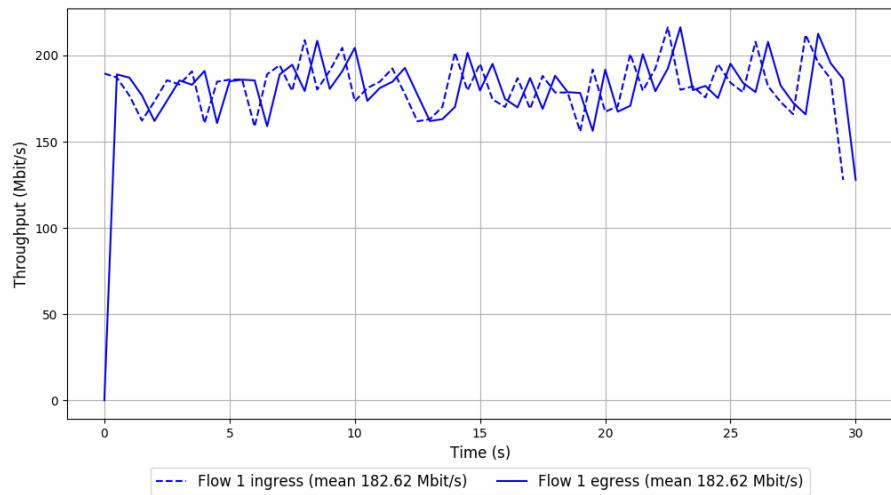


Run 5: Statistics of Indigo

```
Start at: 2019-01-19 07:38:36
End at: 2019-01-19 07:39:06
Local clock offset: -0.555 ms
Remote clock offset: 0.73 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.62 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.62 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

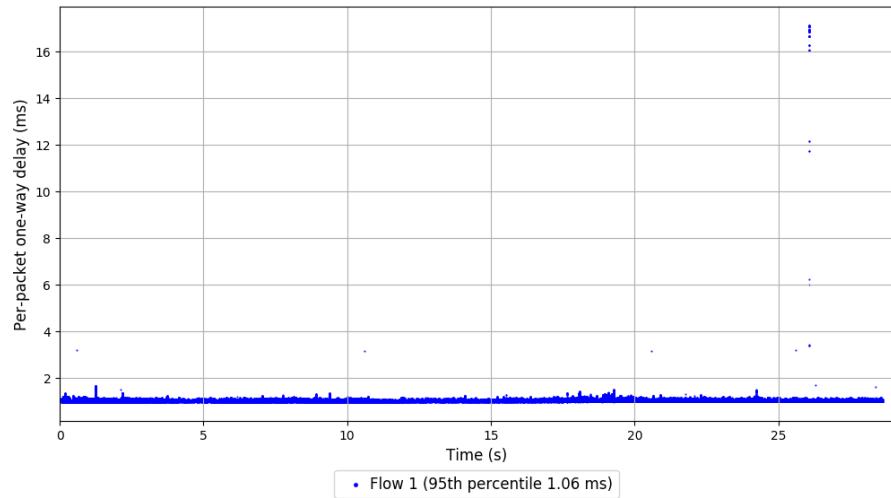
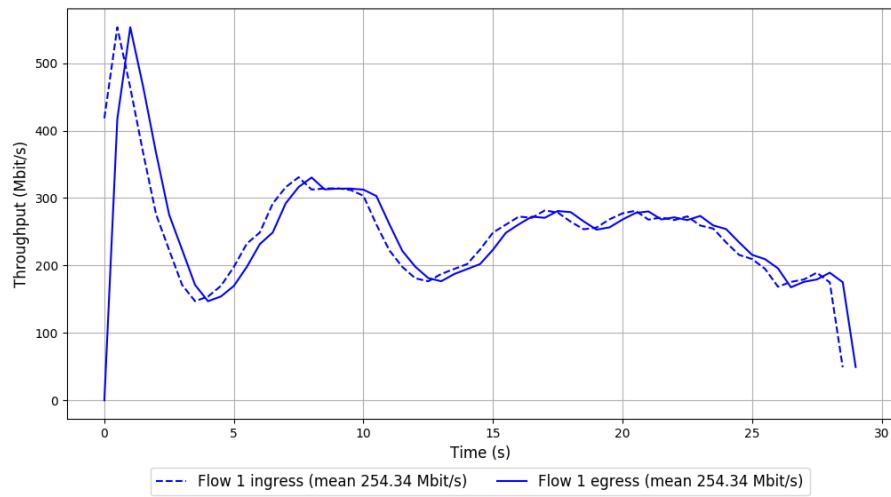


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-01-19 05:35:14
End at: 2019-01-19 05:35:44
Local clock offset: -0.258 ms
Remote clock offset: 2.881 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.34 Mbit/s
95th percentile per-packet one-way delay: 1.058 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 254.34 Mbit/s
95th percentile per-packet one-way delay: 1.058 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC3 — Data Link

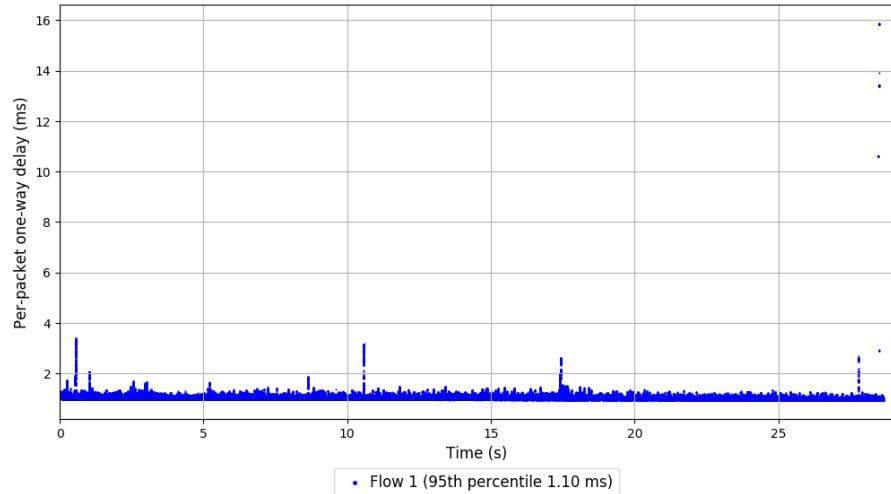
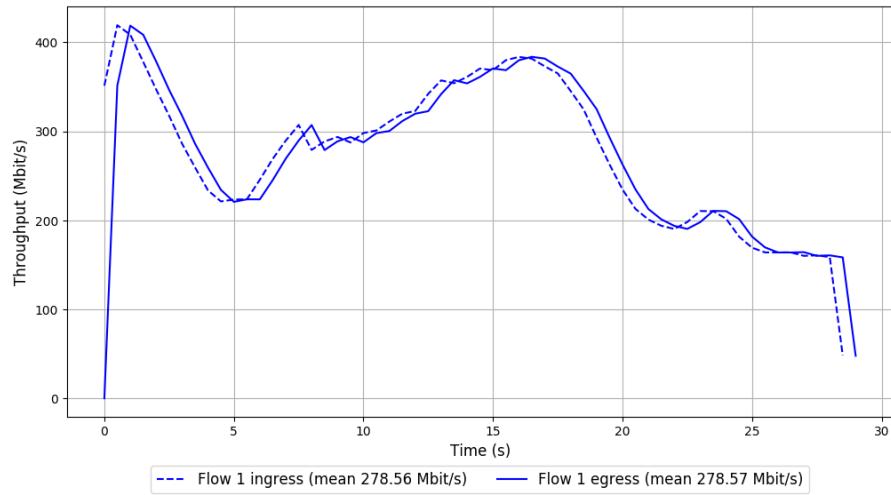


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 06:04:59
End at: 2019-01-19 06:05:29
Local clock offset: -0.15 ms
Remote clock offset: 0.254 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.57 Mbit/s
95th percentile per-packet one-way delay: 1.099 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 278.57 Mbit/s
95th percentile per-packet one-way delay: 1.099 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesC3 — Data Link

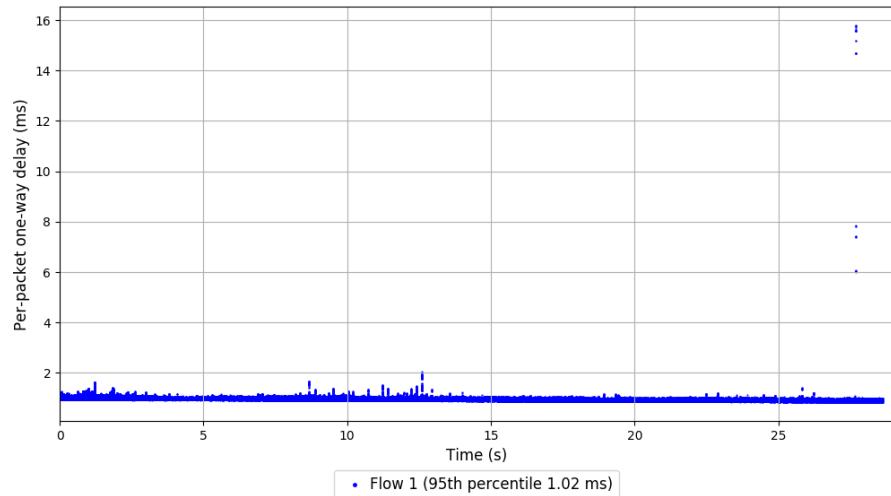
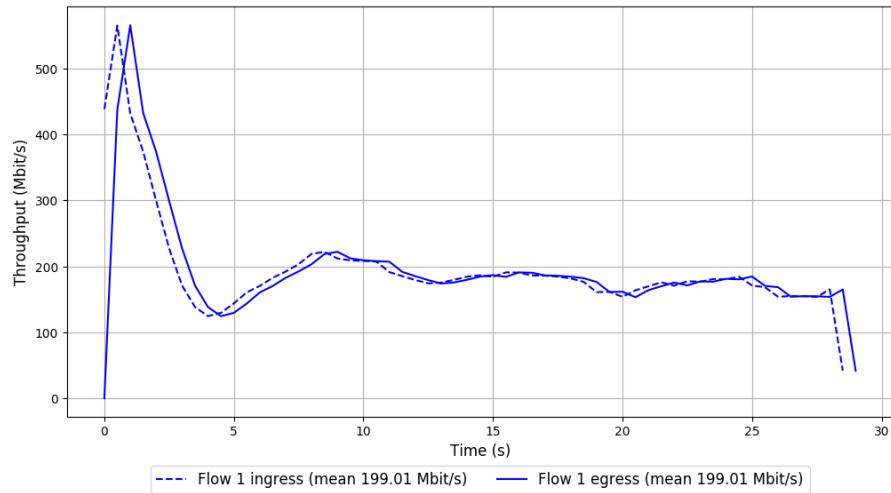


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 06:34:37
End at: 2019-01-19 06:35:07
Local clock offset: 2.914 ms
Remote clock offset: -2.818 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.01 Mbit/s
95th percentile per-packet one-way delay: 1.018 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 199.01 Mbit/s
95th percentile per-packet one-way delay: 1.018 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesC3 — Data Link

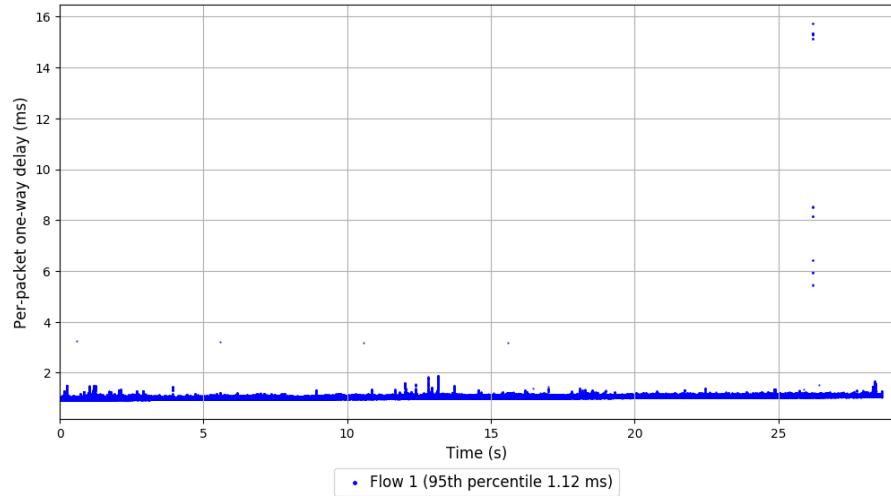
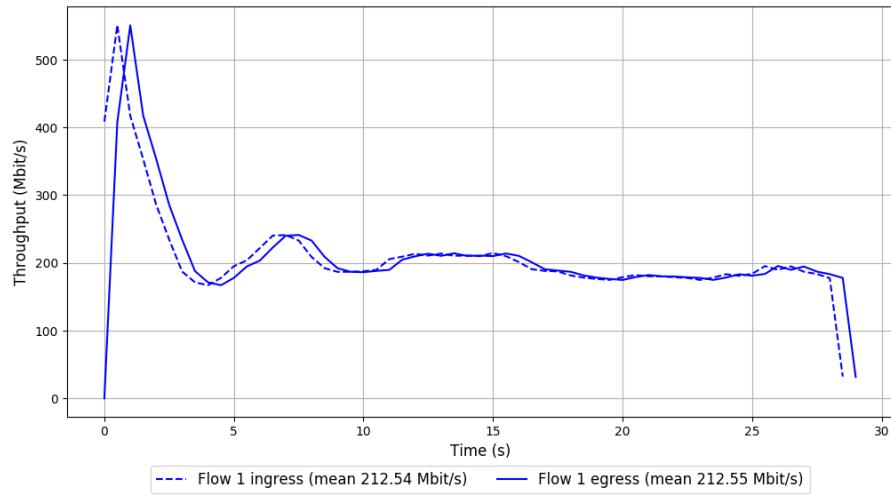


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 07:04:17
End at: 2019-01-19 07:04:47
Local clock offset: 4.53 ms
Remote clock offset: -1.97 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.55 Mbit/s
95th percentile per-packet one-way delay: 1.121 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 212.55 Mbit/s
95th percentile per-packet one-way delay: 1.121 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC3 — Data Link

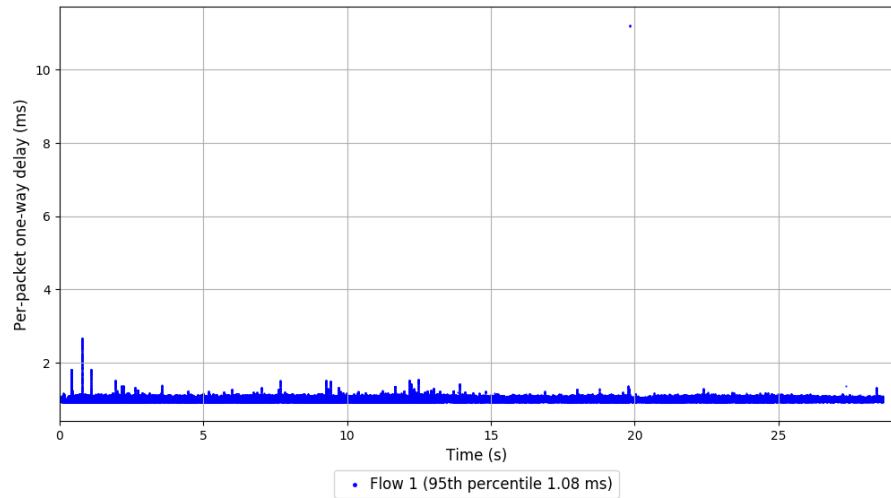
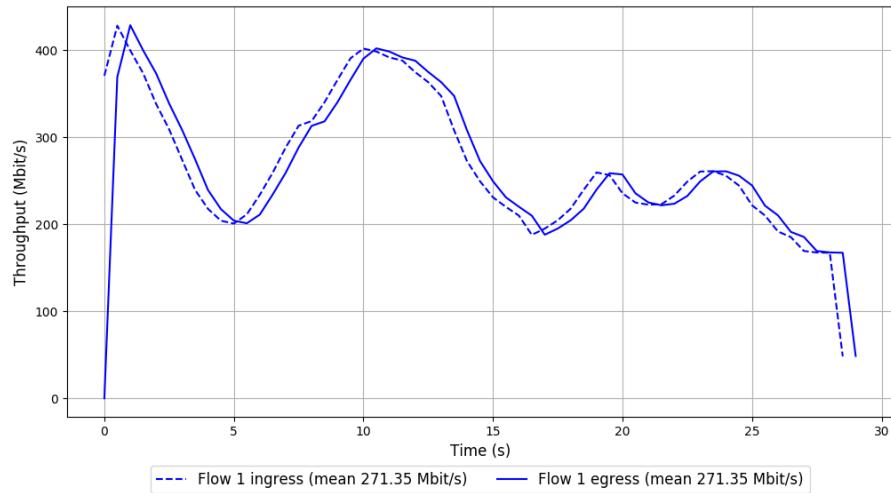


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 07:34:05
End at: 2019-01-19 07:34:35
Local clock offset: 0.097 ms
Remote clock offset: 1.387 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 271.35 Mbit/s
95th percentile per-packet one-way delay: 1.081 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 271.35 Mbit/s
95th percentile per-packet one-way delay: 1.081 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC3 — Data Link

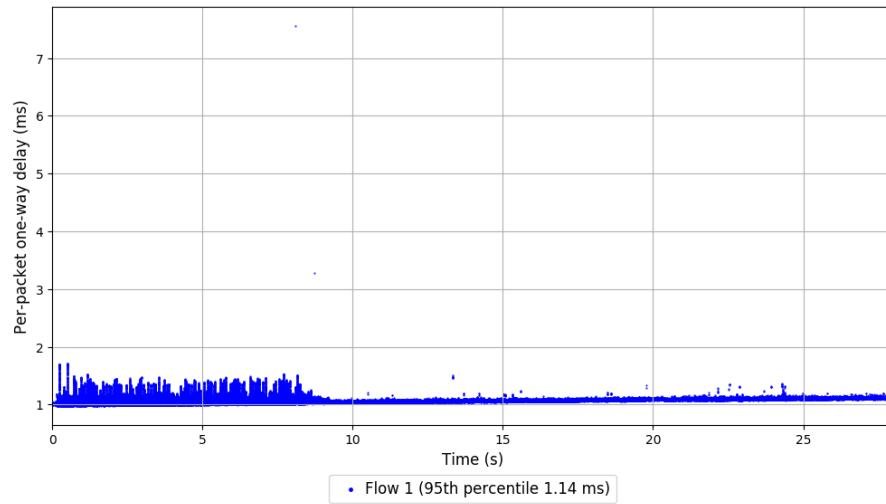
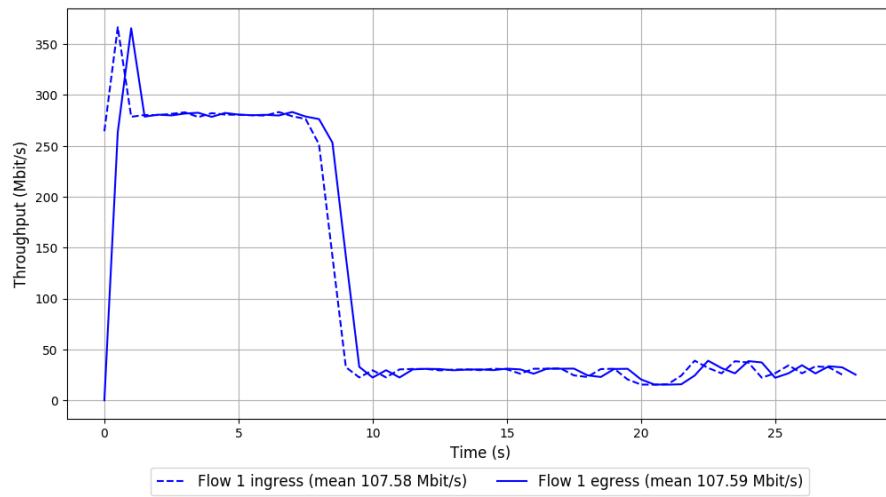


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-19 05:22:58
End at: 2019-01-19 05:23:28
Local clock offset: -0.332 ms
Remote clock offset: 0.89 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 107.59 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 107.59 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC5 — Data Link

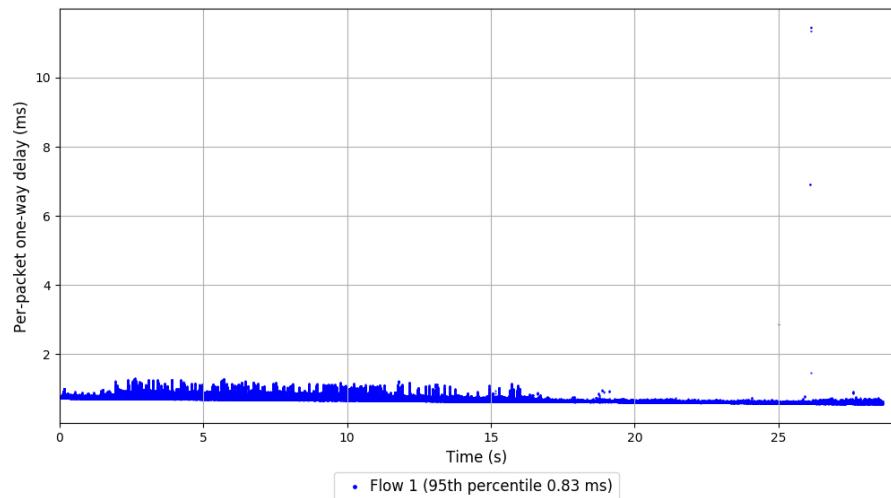
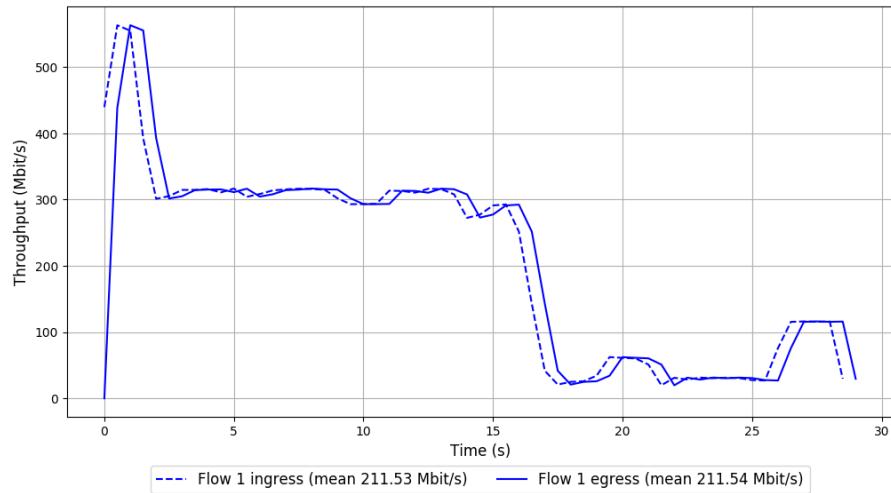


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 05:52:41
End at: 2019-01-19 05:53:11
Local clock offset: -0.25 ms
Remote clock offset: 2.924 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.54 Mbit/s
95th percentile per-packet one-way delay: 0.835 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.54 Mbit/s
95th percentile per-packet one-way delay: 0.835 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC5 — Data Link

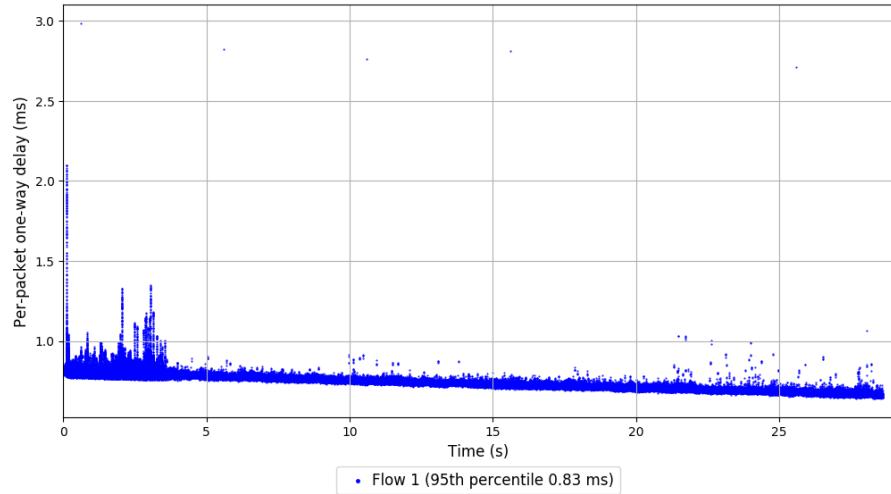
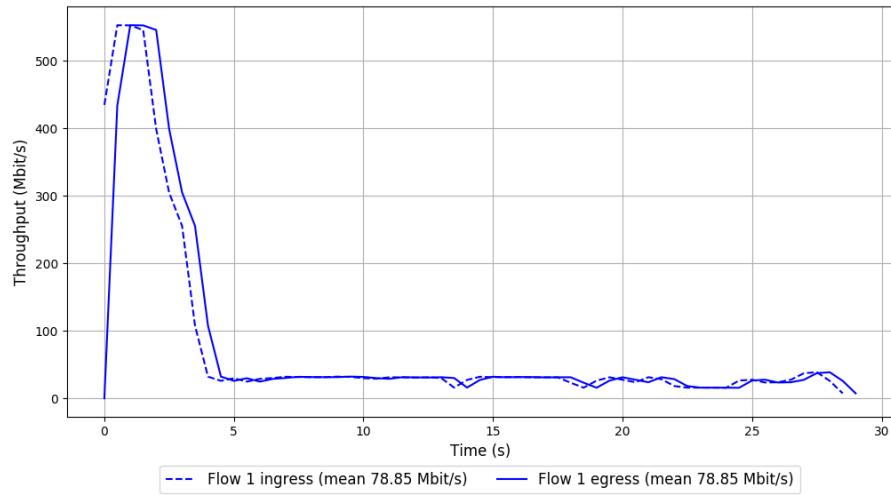


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 06:22:19
End at: 2019-01-19 06:22:49
Local clock offset: 0.788 ms
Remote clock offset: -0.557 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.85 Mbit/s
95th percentile per-packet one-way delay: 0.833 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.85 Mbit/s
95th percentile per-packet one-way delay: 0.833 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC5 — Data Link

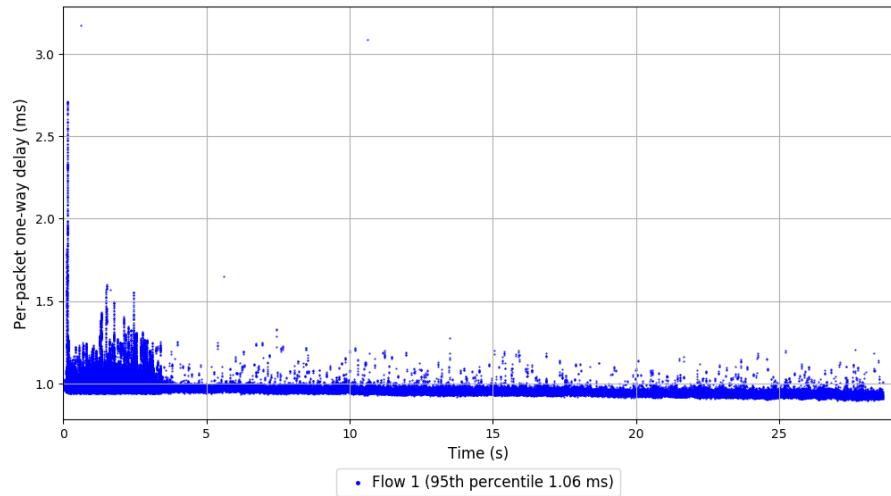
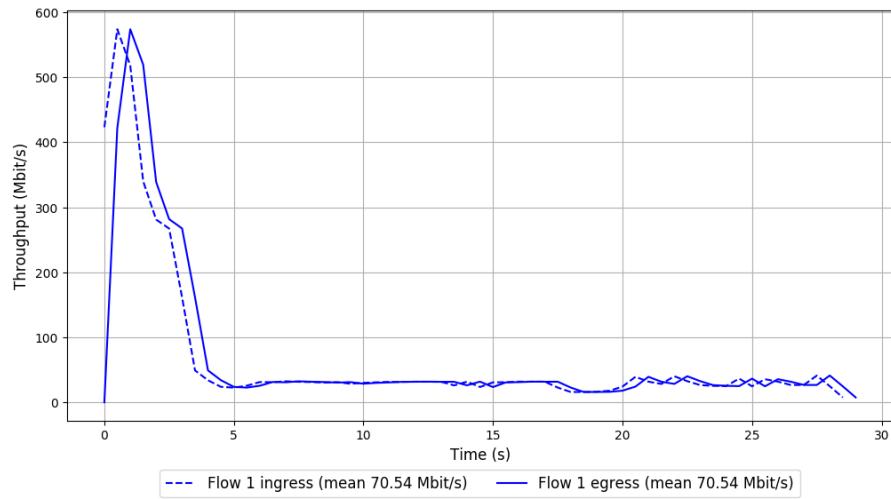


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 06:52:01
End at: 2019-01-19 06:52:31
Local clock offset: 4.009 ms
Remote clock offset: -4.276 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.54 Mbit/s
95th percentile per-packet one-way delay: 1.057 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.54 Mbit/s
95th percentile per-packet one-way delay: 1.057 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesC5 — Data Link

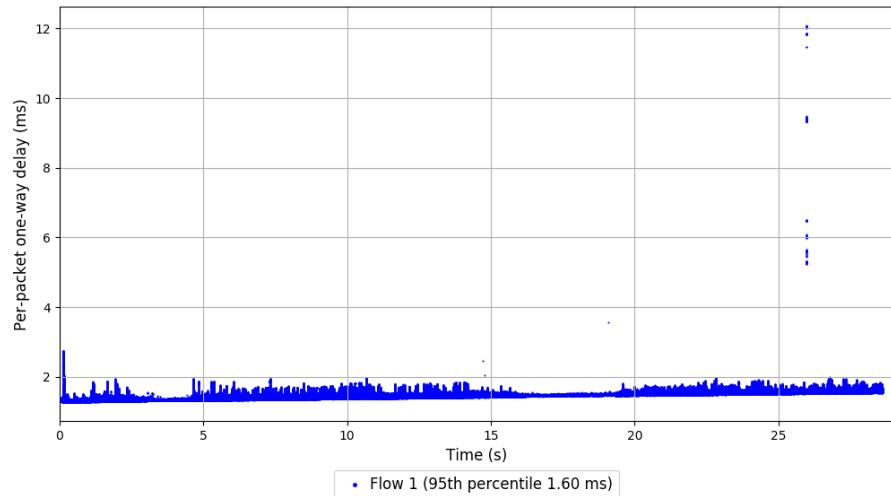
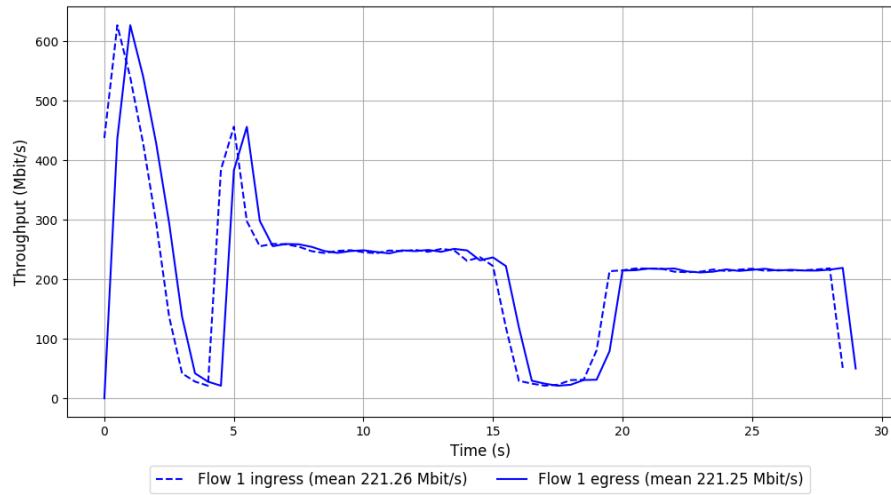


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 07:21:41
End at: 2019-01-19 07:22:11
Local clock offset: 3.893 ms
Remote clock offset: 0.844 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.25 Mbit/s
95th percentile per-packet one-way delay: 1.604 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 221.25 Mbit/s
95th percentile per-packet one-way delay: 1.604 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesC5 — Data Link

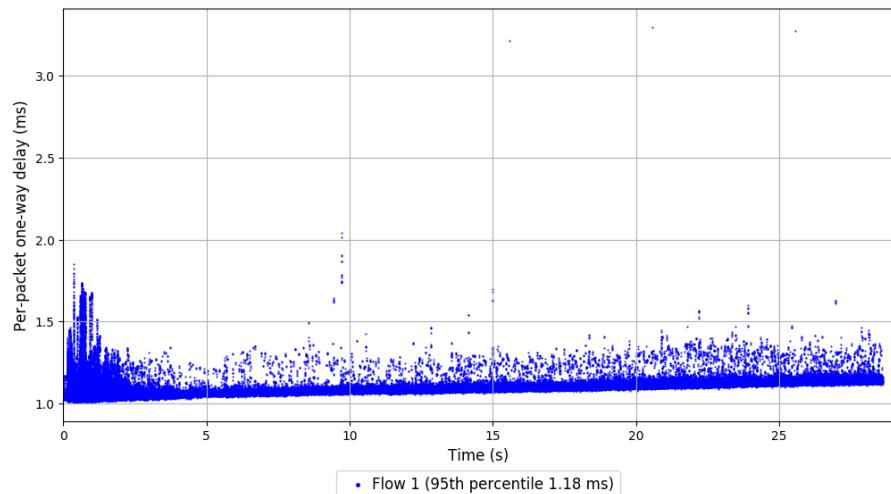
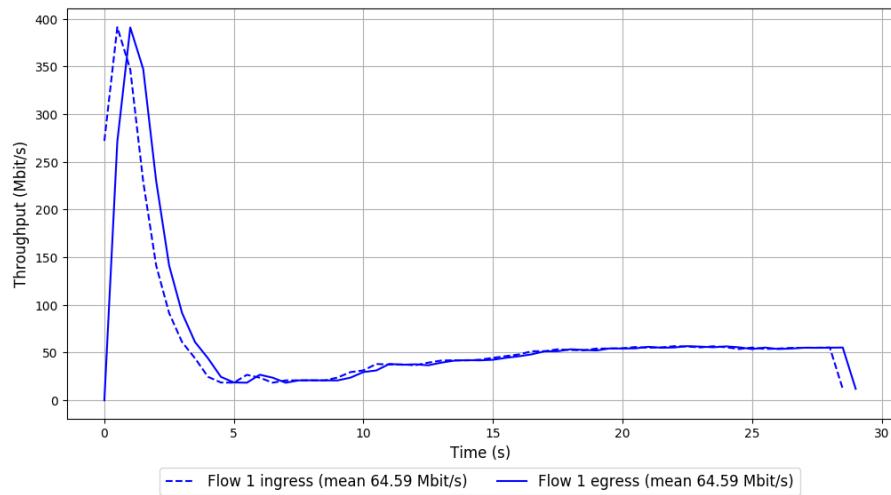


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 05:24:14
End at: 2019-01-19 05:24:44
Local clock offset: -0.324 ms
Remote clock offset: 1.137 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.59 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.59 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link

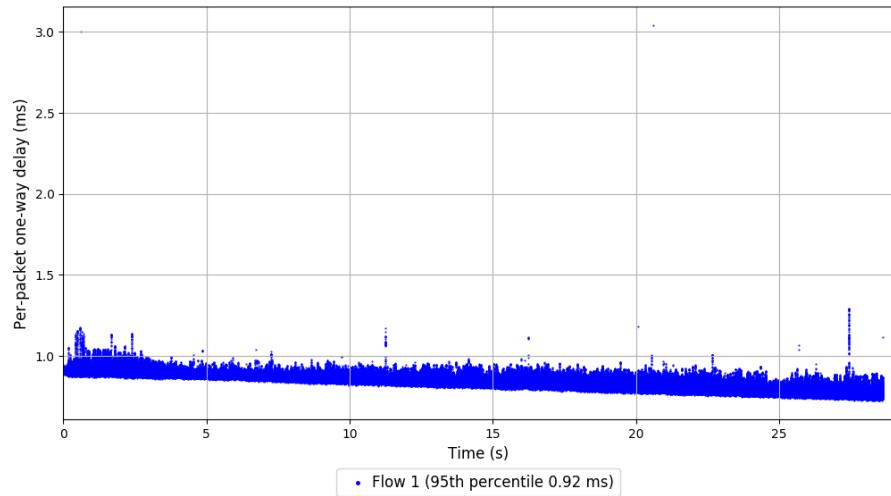
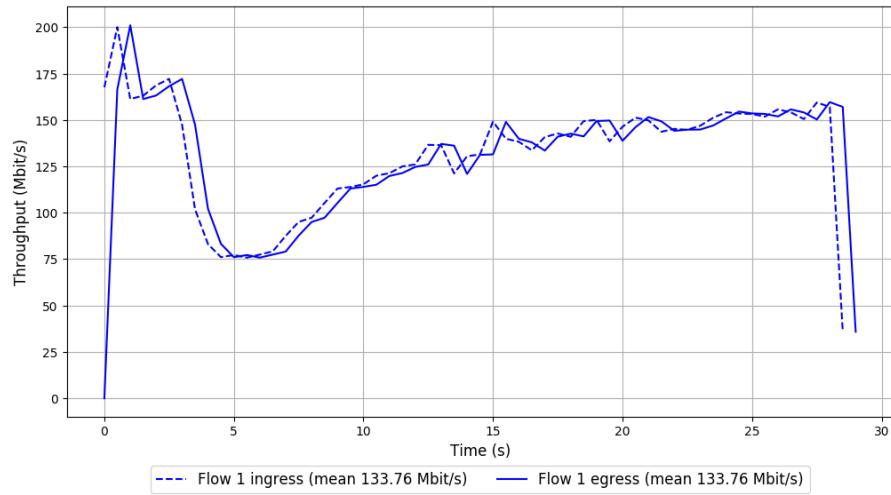


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 05:54:01
End at: 2019-01-19 05:54:31
Local clock offset: -0.23 ms
Remote clock offset: 2.33 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.76 Mbit/s
95th percentile per-packet one-way delay: 0.920 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 133.76 Mbit/s
95th percentile per-packet one-way delay: 0.920 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesD — Data Link

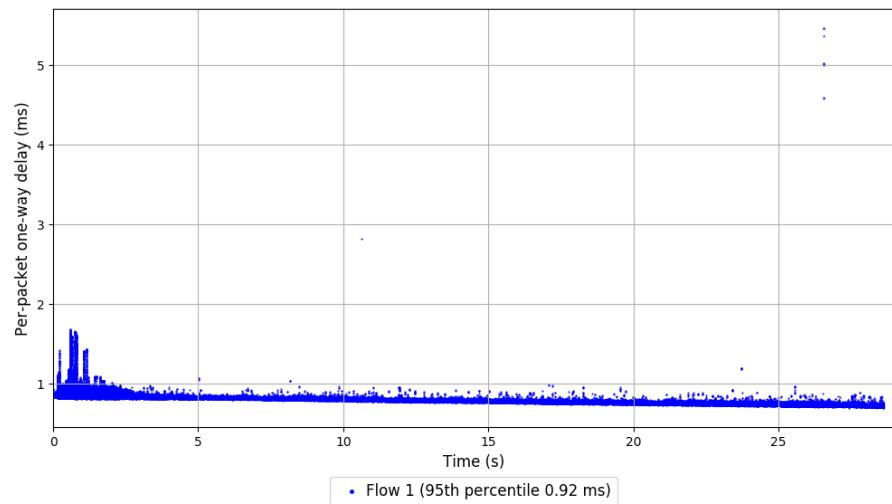
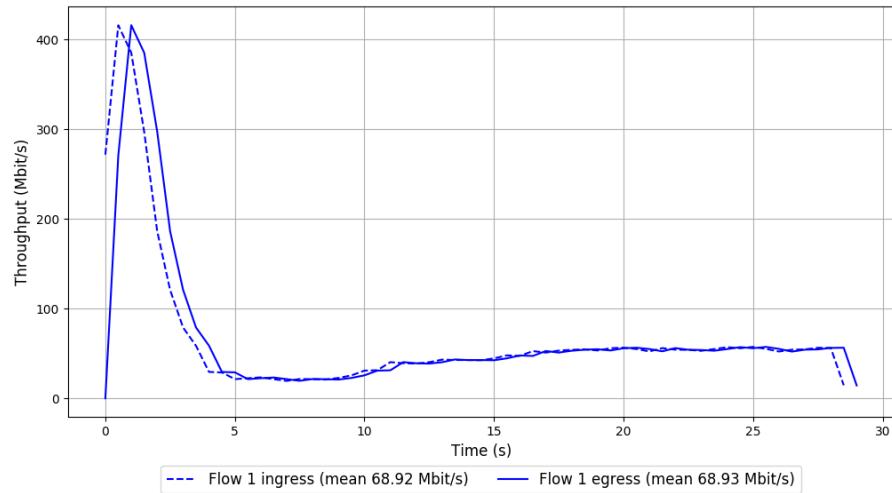


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 06:23:35
End at: 2019-01-19 06:24:05
Local clock offset: 1.089 ms
Remote clock offset: -0.665 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.93 Mbit/s
95th percentile per-packet one-way delay: 0.919 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 68.93 Mbit/s
95th percentile per-packet one-way delay: 0.919 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesD — Data Link

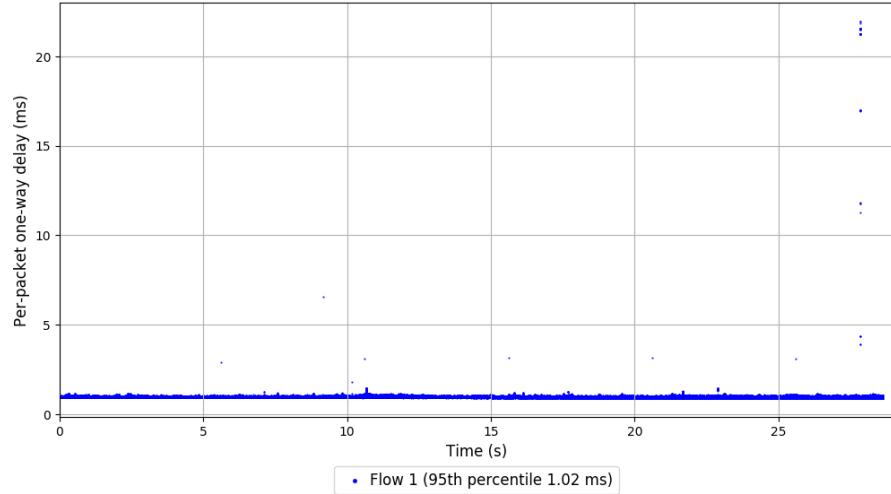
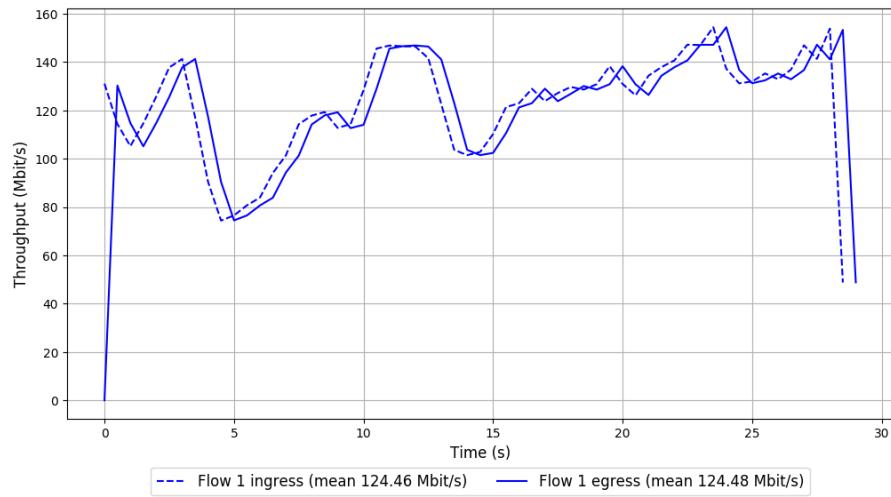


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 06:53:16
End at: 2019-01-19 06:53:46
Local clock offset: 4.084 ms
Remote clock offset: -4.329 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 124.48 Mbit/s
95th percentile per-packet one-way delay: 1.020 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 124.48 Mbit/s
95th percentile per-packet one-way delay: 1.020 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesD — Data Link

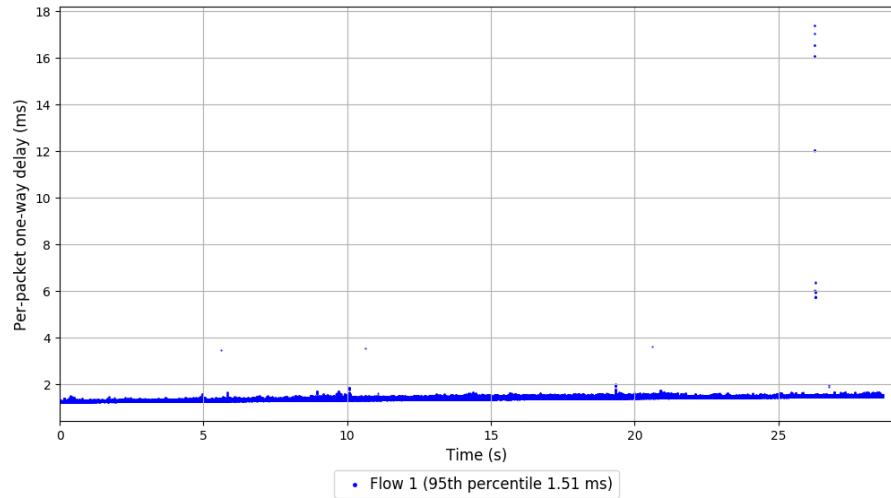
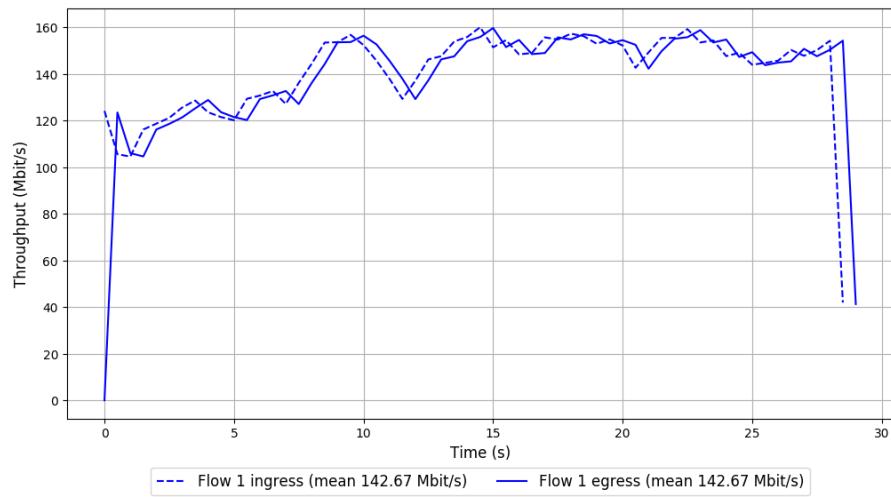


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 07:23:01
End at: 2019-01-19 07:23:31
Local clock offset: 3.2 ms
Remote clock offset: 0.919 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 142.67 Mbit/s
95th percentile per-packet one-way delay: 1.509 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 142.67 Mbit/s
95th percentile per-packet one-way delay: 1.509 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesD — Data Link

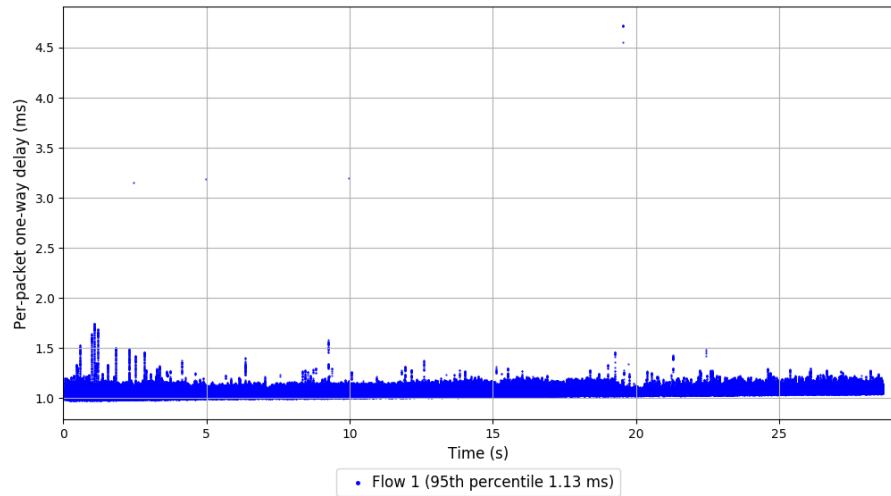
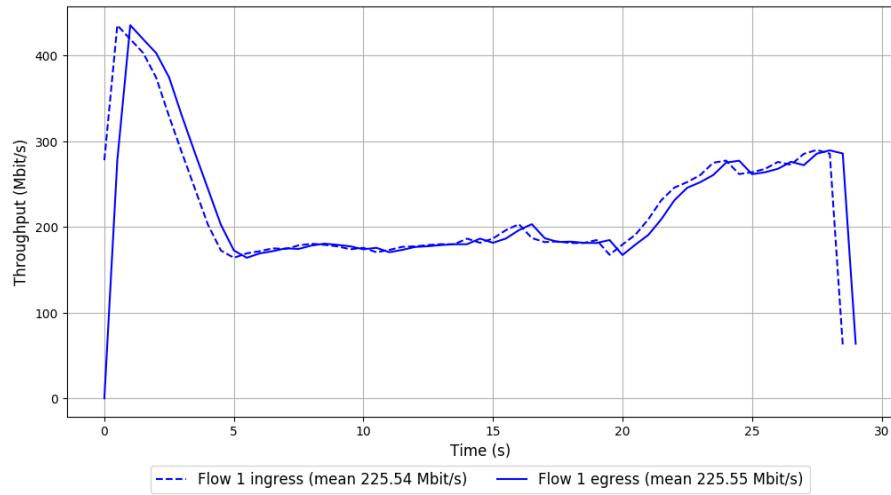


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 05:29:36
End at: 2019-01-19 05:30:06
Local clock offset: -0.267 ms
Remote clock offset: 2.174 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.55 Mbit/s
95th percentile per-packet one-way delay: 1.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.55 Mbit/s
95th percentile per-packet one-way delay: 1.130 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesT — Data Link

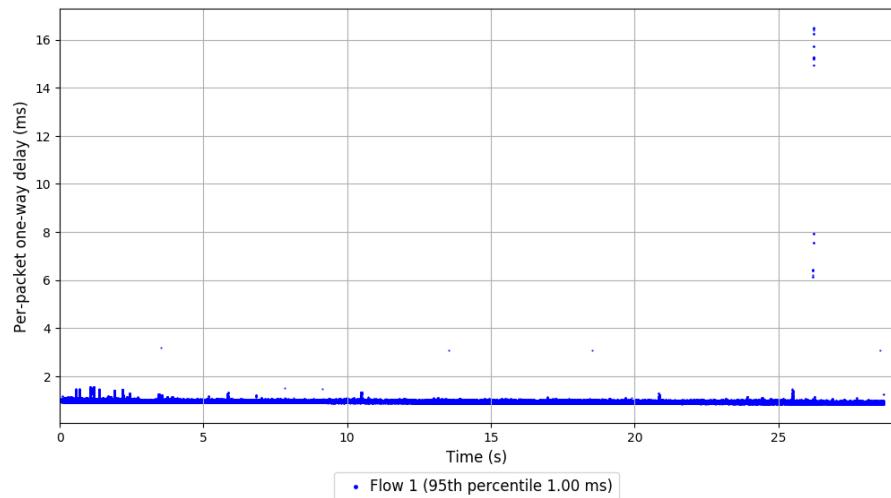
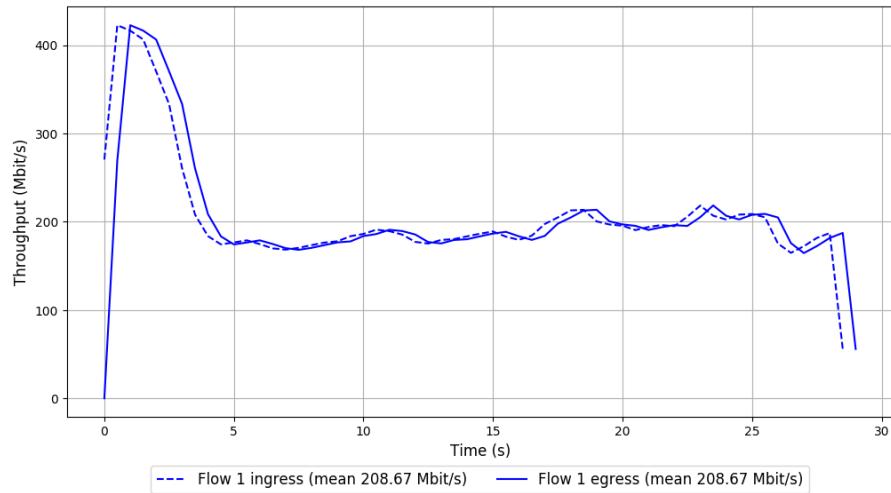


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 05:59:22
End at: 2019-01-19 05:59:52
Local clock offset: -0.18 ms
Remote clock offset: 1.029 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.67 Mbit/s
95th percentile per-packet one-way delay: 1.005 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.67 Mbit/s
95th percentile per-packet one-way delay: 1.005 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesT — Data Link

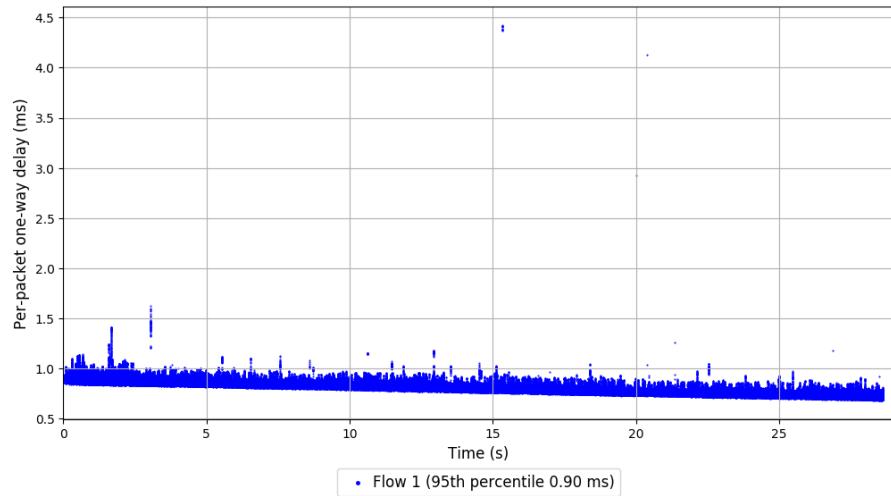
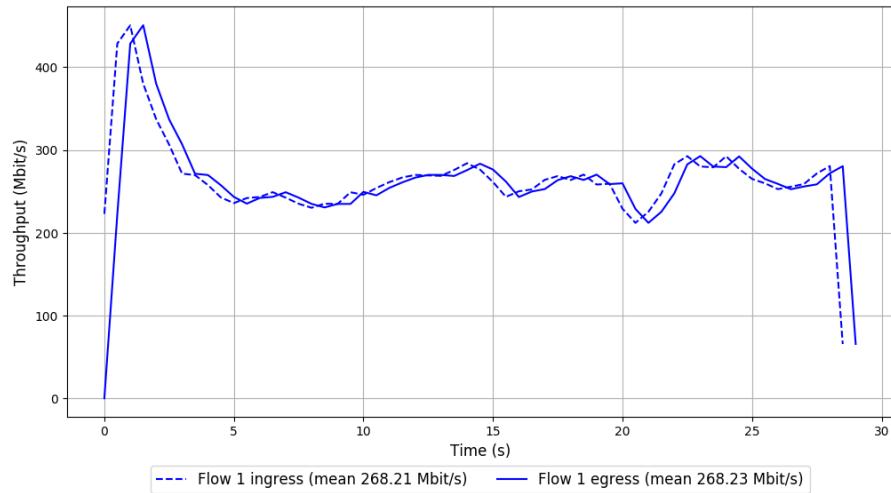


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 06:28:55
End at: 2019-01-19 06:29:25
Local clock offset: 2.18 ms
Remote clock offset: -1.872 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 268.23 Mbit/s
95th percentile per-packet one-way delay: 0.897 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 268.23 Mbit/s
95th percentile per-packet one-way delay: 0.897 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesT — Data Link

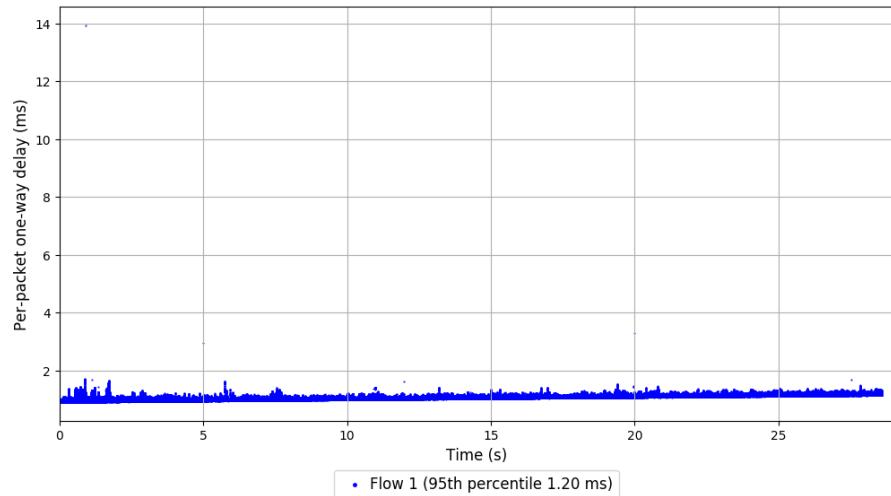
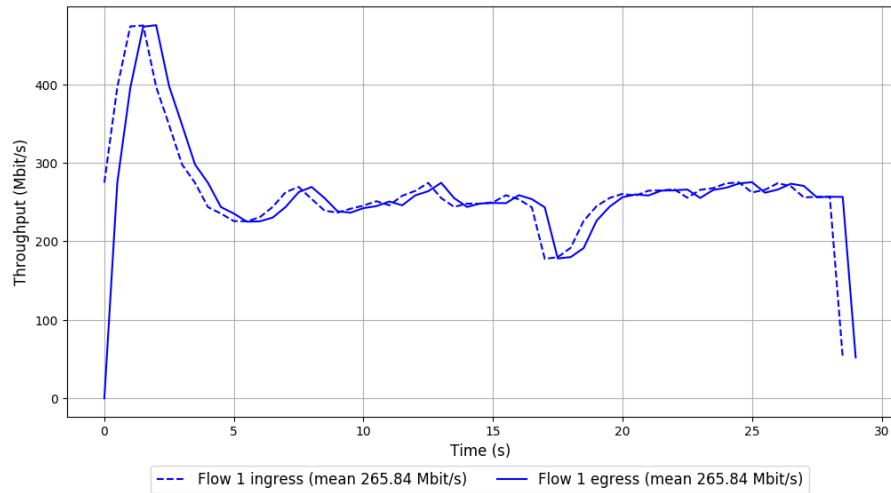


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 06:58:38
End at: 2019-01-19 06:59:08
Local clock offset: 4.303 ms
Remote clock offset: -4.309 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 265.84 Mbit/s
95th percentile per-packet one-way delay: 1.195 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 265.84 Mbit/s
95th percentile per-packet one-way delay: 1.195 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesT — Data Link

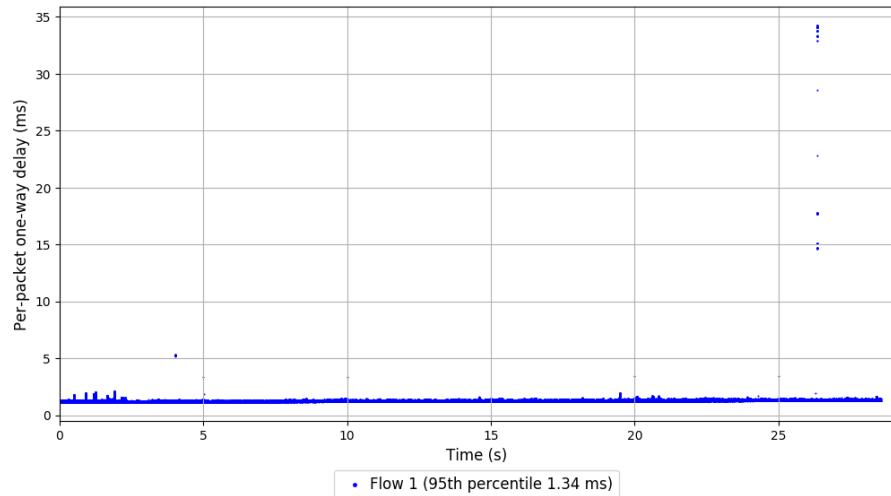
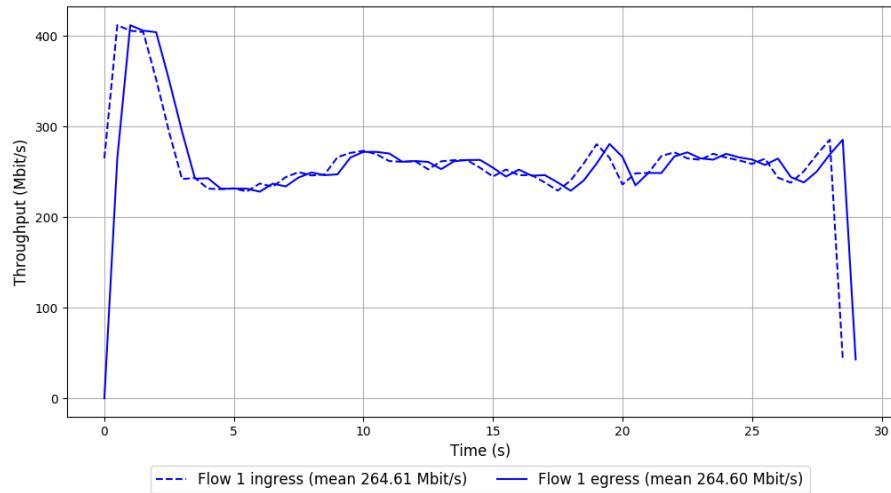


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 07:28:23
End at: 2019-01-19 07:28:53
Local clock offset: 1.275 ms
Remote clock offset: 1.283 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 264.60 Mbit/s
95th percentile per-packet one-way delay: 1.339 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 264.60 Mbit/s
95th percentile per-packet one-way delay: 1.339 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesT — Data Link

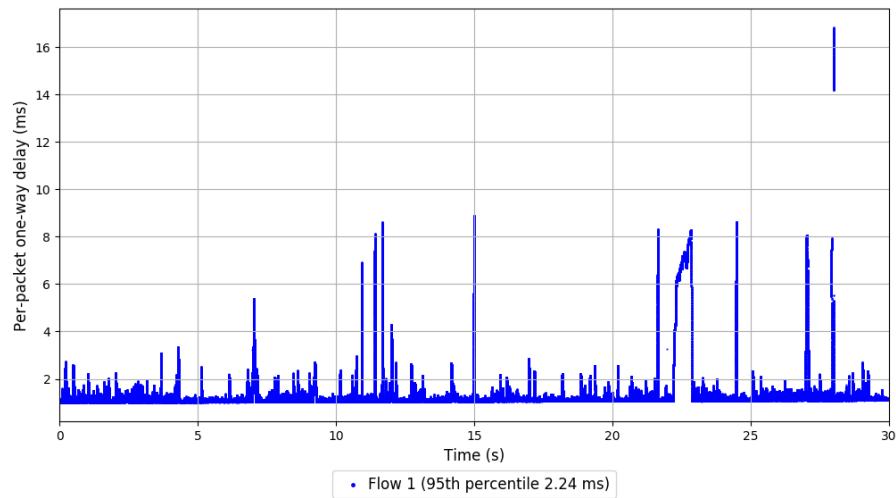
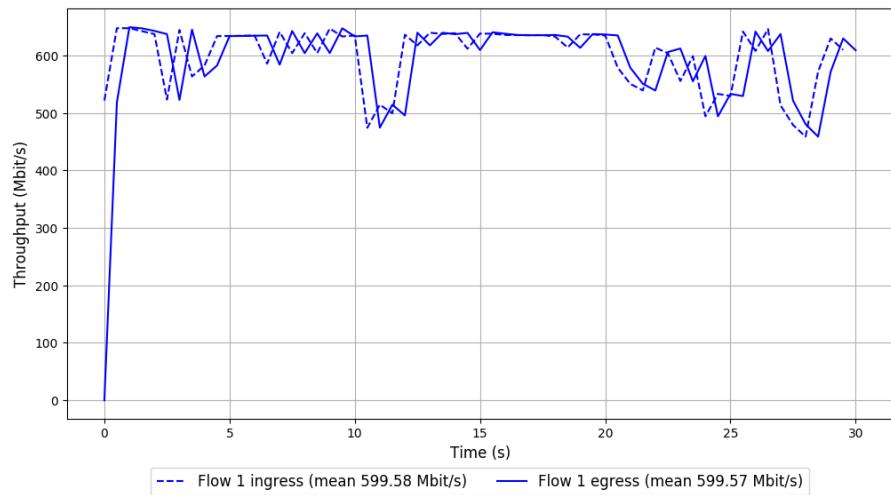


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-01-19 05:25:29
End at: 2019-01-19 05:25:59
Local clock offset: -0.298 ms
Remote clock offset: 1.418 ms

# Below is generated by plot.py at 2019-01-19 08:36:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 599.57 Mbit/s
95th percentile per-packet one-way delay: 2.237 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 599.57 Mbit/s
95th percentile per-packet one-way delay: 2.237 ms
Loss rate: 0.01%
```

Run 1: Report of LEDBAT — Data Link

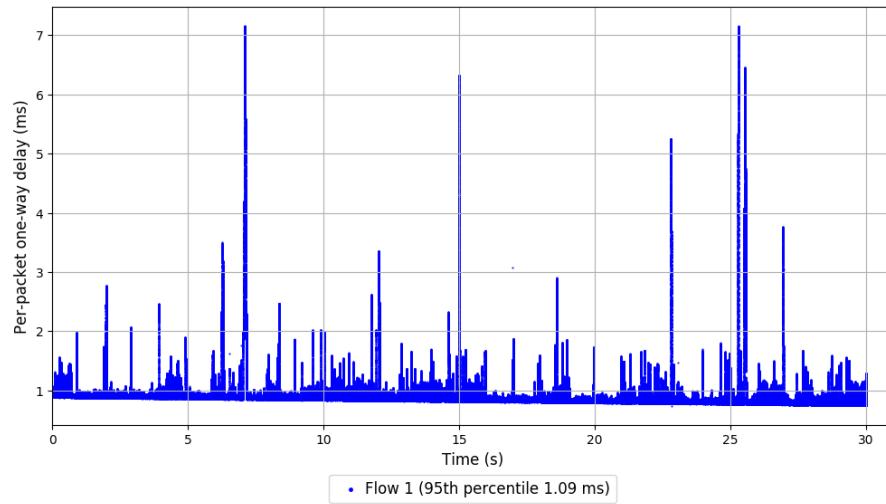
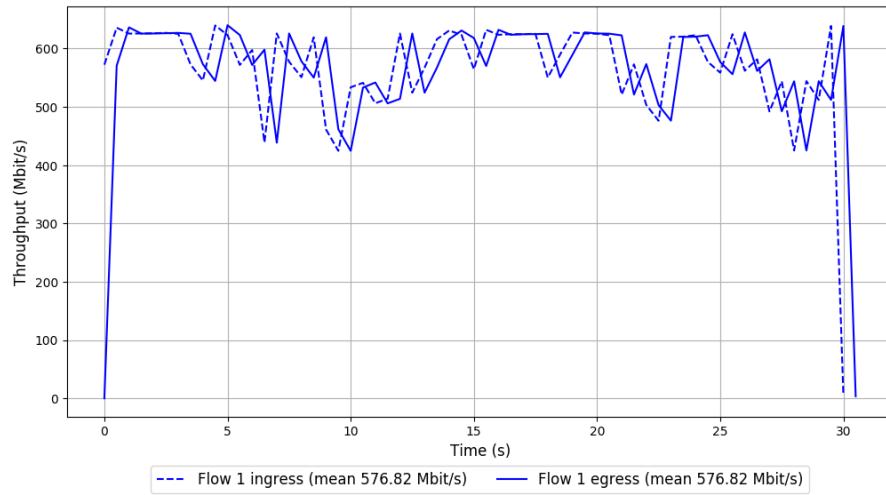


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-19 05:55:17
End at: 2019-01-19 05:55:47
Local clock offset: -0.194 ms
Remote clock offset: 1.975 ms

# Below is generated by plot.py at 2019-01-19 08:36:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 576.82 Mbit/s
95th percentile per-packet one-way delay: 1.093 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 576.82 Mbit/s
95th percentile per-packet one-way delay: 1.093 ms
Loss rate: 0.01%
```

Run 2: Report of LEDBAT — Data Link

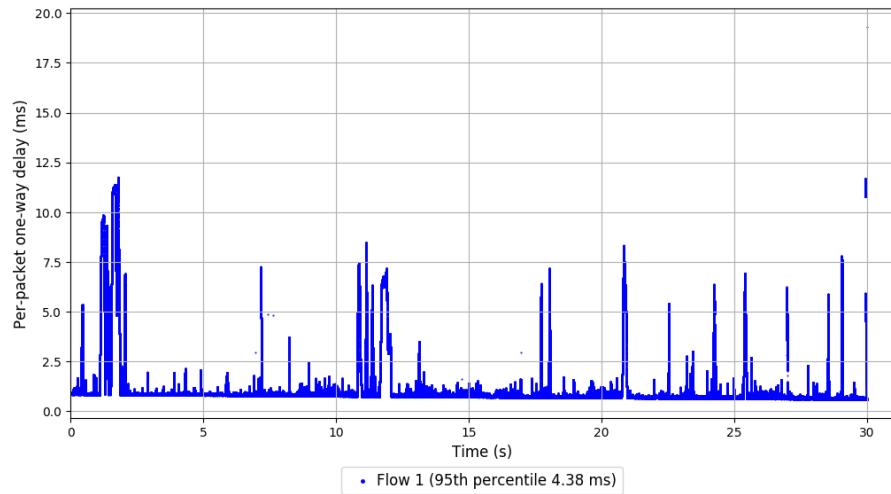
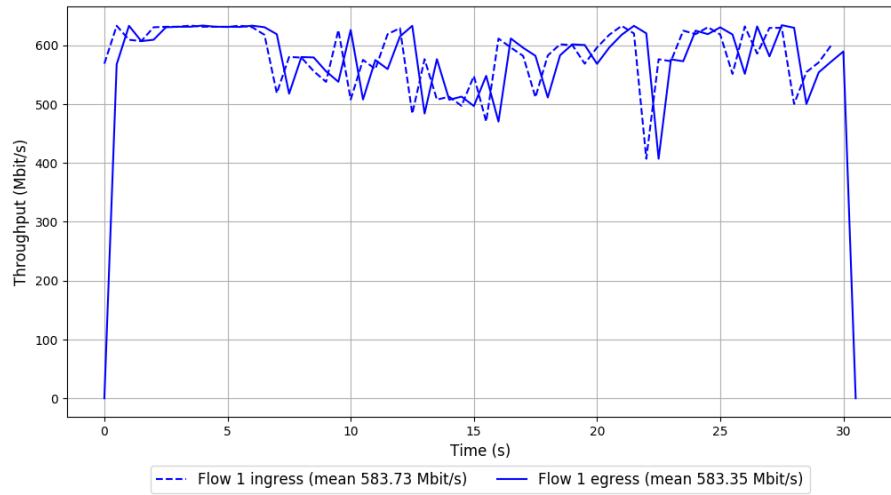


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-19 06:24:50
End at: 2019-01-19 06:25:20
Local clock offset: 1.44 ms
Remote clock offset: -0.84 ms

# Below is generated by plot.py at 2019-01-19 08:37:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 583.35 Mbit/s
95th percentile per-packet one-way delay: 4.376 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 583.35 Mbit/s
95th percentile per-packet one-way delay: 4.376 ms
Loss rate: 0.03%
```

Run 3: Report of LEDBAT — Data Link

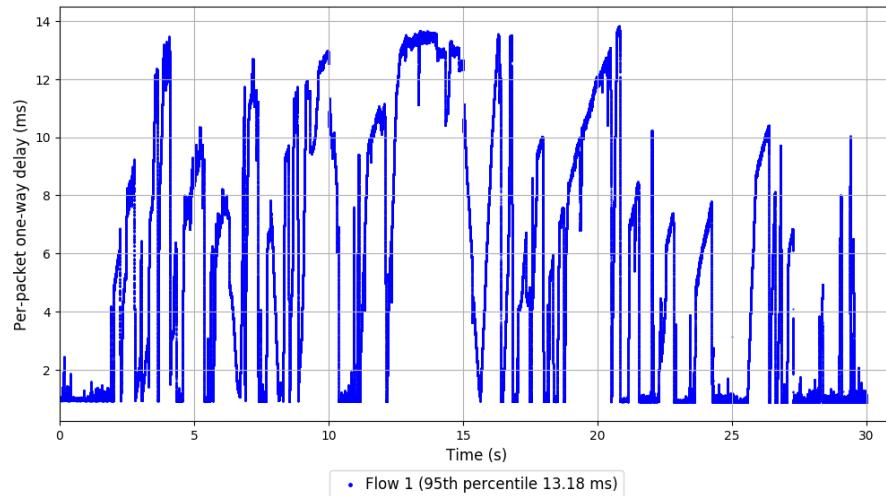
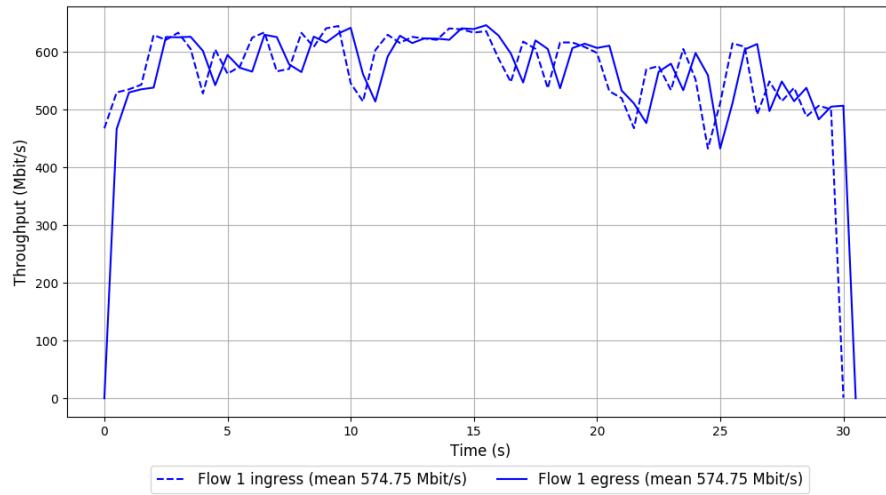


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-19 06:54:32
End at: 2019-01-19 06:55:02
Local clock offset: 4.109 ms
Remote clock offset: -4.416 ms

# Below is generated by plot.py at 2019-01-19 08:37:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 574.75 Mbit/s
95th percentile per-packet one-way delay: 13.178 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 574.75 Mbit/s
95th percentile per-packet one-way delay: 13.178 ms
Loss rate: 0.01%
```

Run 4: Report of LEDBAT — Data Link

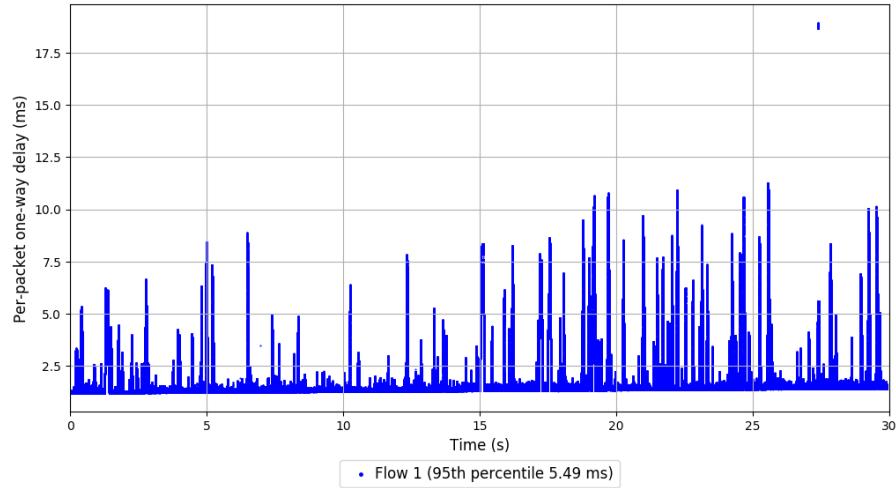
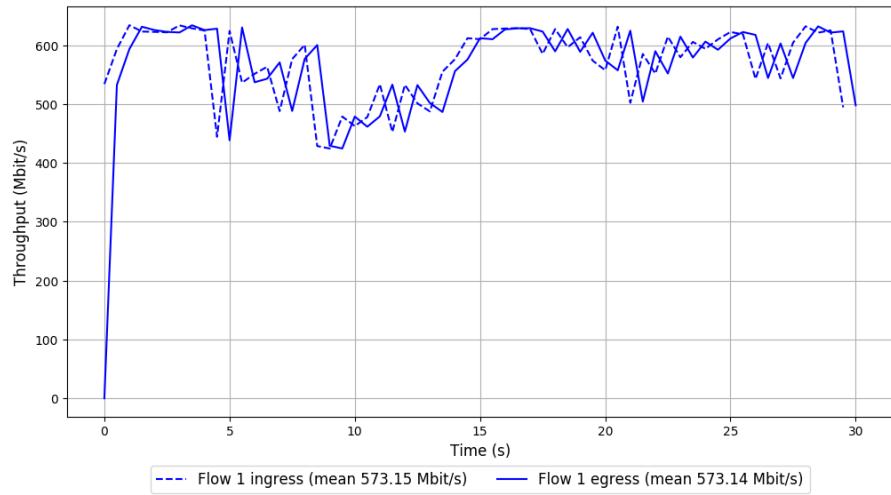


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-19 07:24:18
End at: 2019-01-19 07:24:48
Local clock offset: 2.605 ms
Remote clock offset: 0.989 ms

# Below is generated by plot.py at 2019-01-19 08:37:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 573.14 Mbit/s
95th percentile per-packet one-way delay: 5.494 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 573.14 Mbit/s
95th percentile per-packet one-way delay: 5.494 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

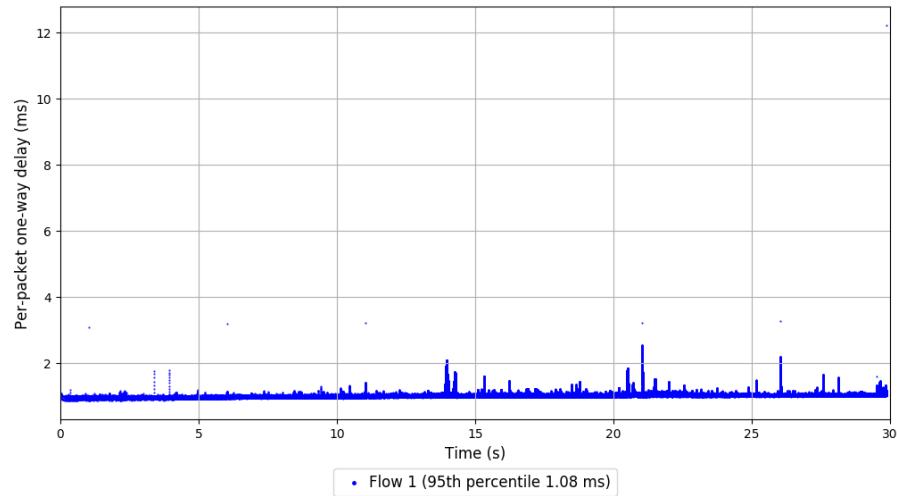
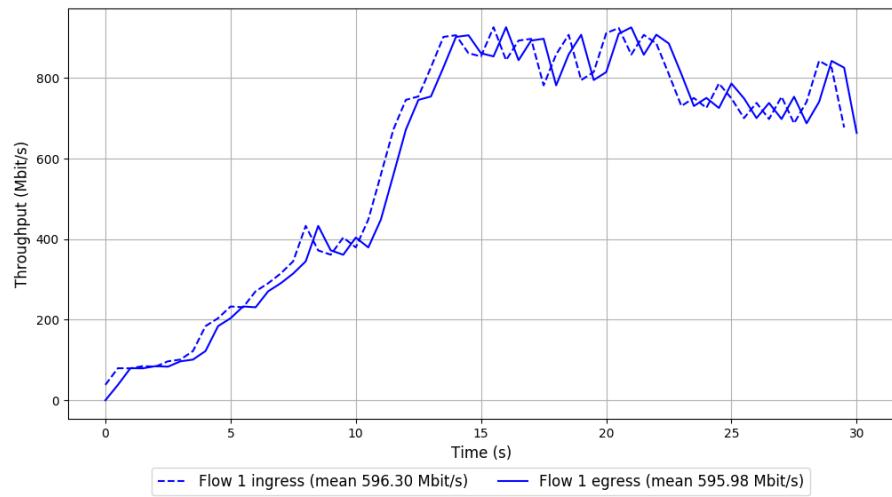


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-19 05:30:56
End at: 2019-01-19 05:31:26
Local clock offset: -0.253 ms
Remote clock offset: 2.408 ms

# Below is generated by plot.py at 2019-01-19 08:38:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 595.98 Mbit/s
95th percentile per-packet one-way delay: 1.079 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 595.98 Mbit/s
95th percentile per-packet one-way delay: 1.079 ms
Loss rate: 0.04%
```

Run 1: Report of PCC-Allegro — Data Link

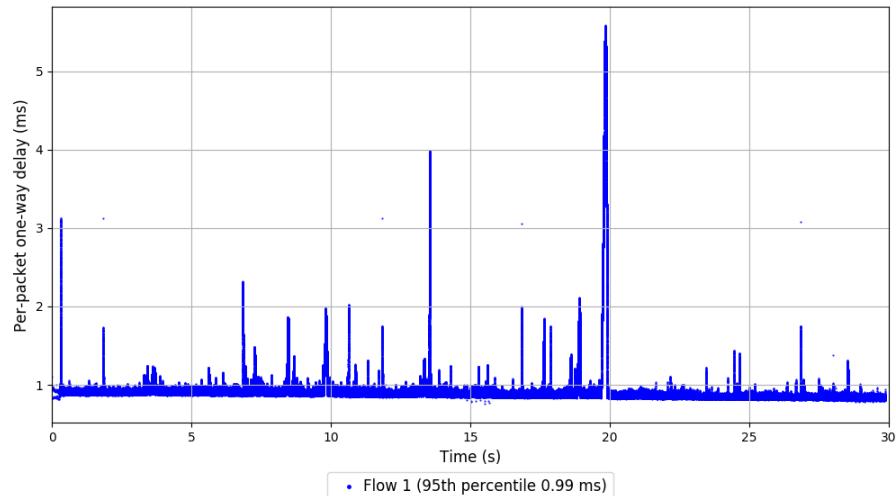
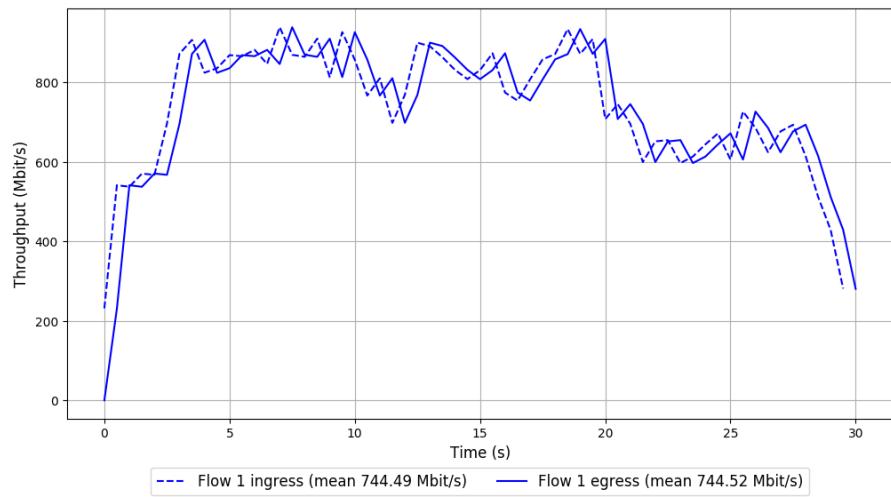


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-19 06:00:42
End at: 2019-01-19 06:01:12
Local clock offset: -0.157 ms
Remote clock offset: 0.874 ms

# Below is generated by plot.py at 2019-01-19 08:39:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 744.52 Mbit/s
95th percentile per-packet one-way delay: 0.995 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 744.52 Mbit/s
95th percentile per-packet one-way delay: 0.995 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Allegro — Data Link

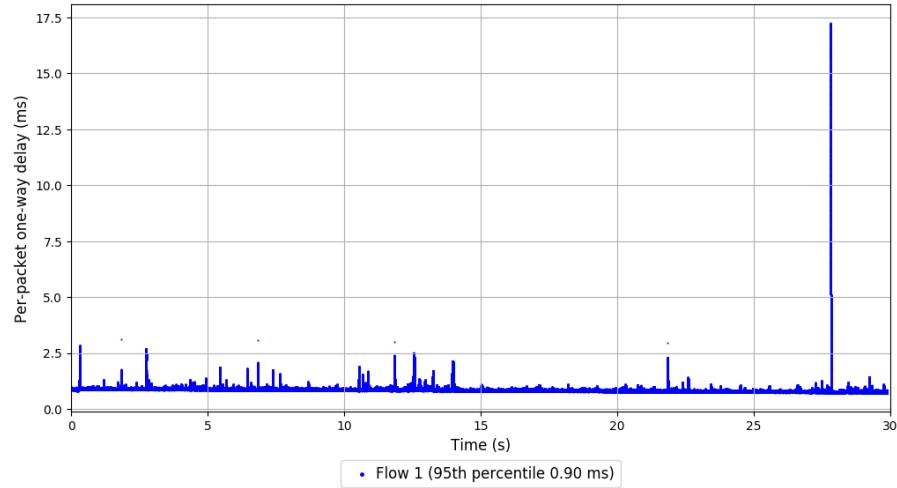
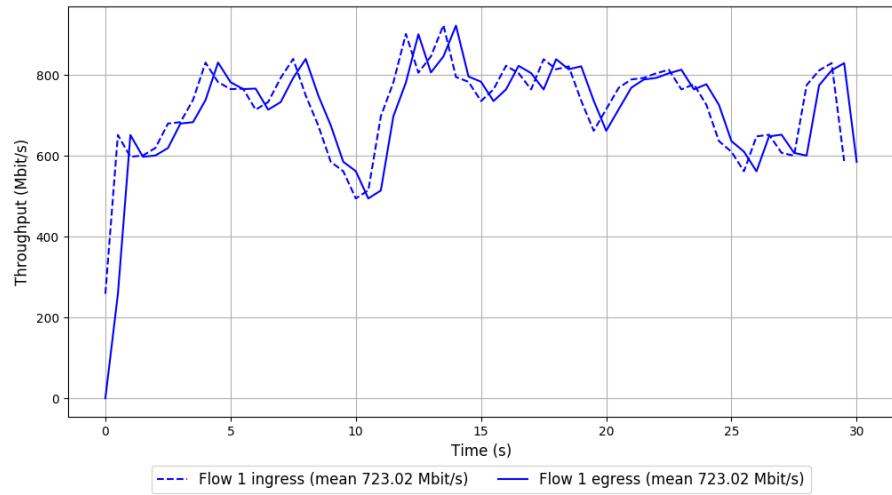


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-19 06:30:16
End at: 2019-01-19 06:30:46
Local clock offset: 2.388 ms
Remote clock offset: -2.125 ms

# Below is generated by plot.py at 2019-01-19 08:41:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 723.02 Mbit/s
95th percentile per-packet one-way delay: 0.903 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 723.02 Mbit/s
95th percentile per-packet one-way delay: 0.903 ms
Loss rate: 0.01%
```

Run 3: Report of PCC-Allegro — Data Link

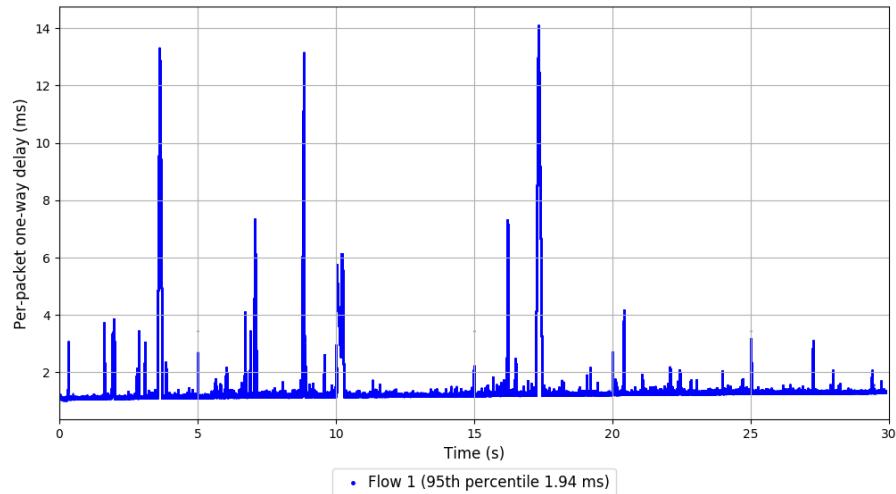
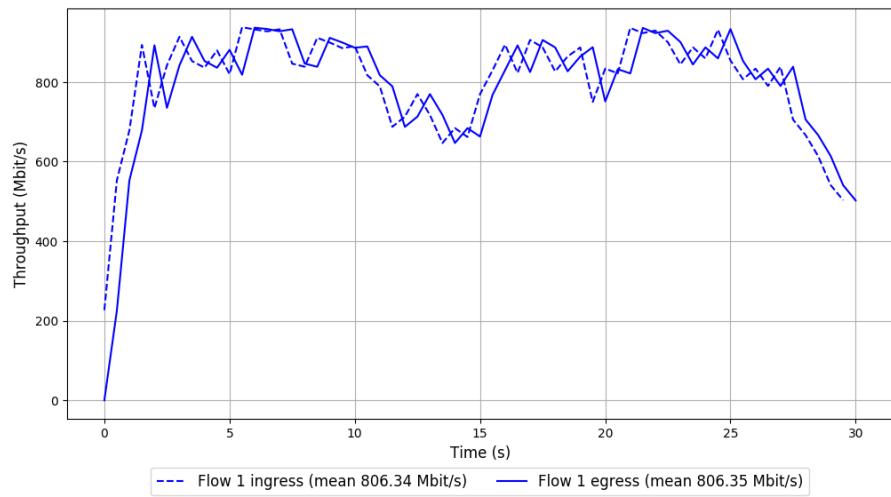


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-19 06:59:59
End at: 2019-01-19 07:00:29
Local clock offset: 4.363 ms
Remote clock offset: -3.768 ms

# Below is generated by plot.py at 2019-01-19 08:45:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 806.35 Mbit/s
95th percentile per-packet one-way delay: 1.935 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 806.35 Mbit/s
95th percentile per-packet one-way delay: 1.935 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Allegro — Data Link

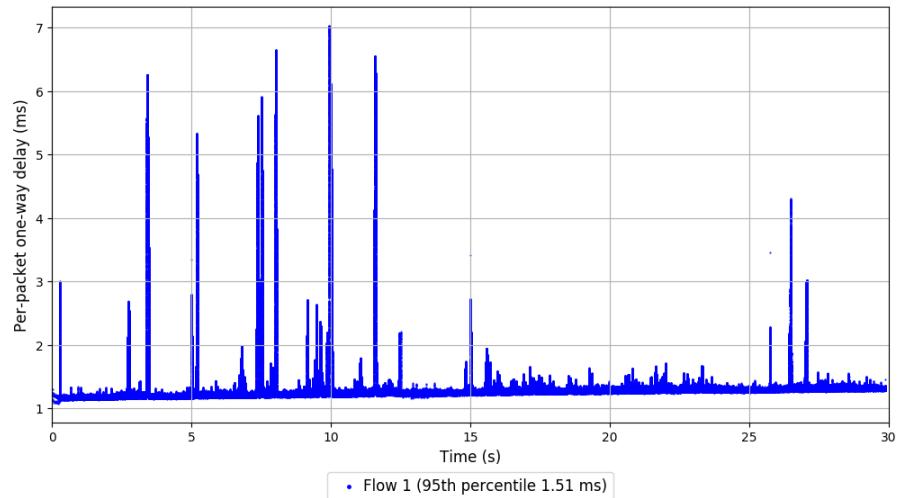
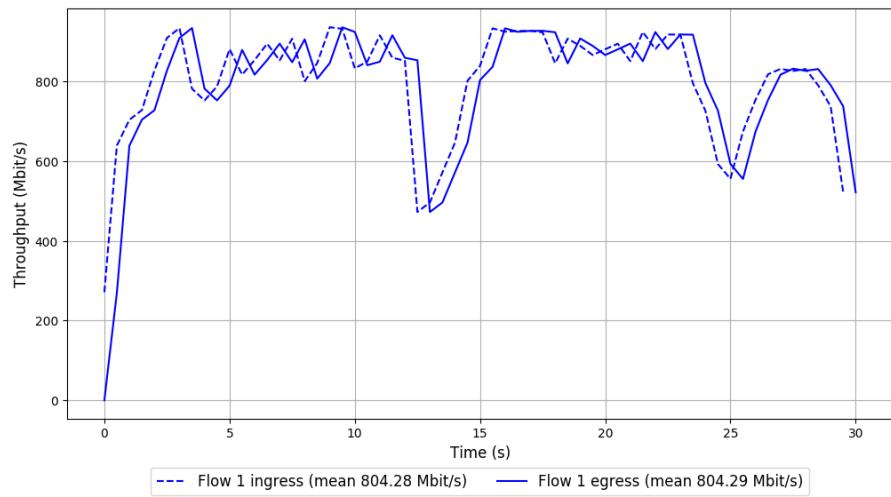


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-19 07:29:44
End at: 2019-01-19 07:30:14
Local clock offset: 0.96 ms
Remote clock offset: 1.364 ms

# Below is generated by plot.py at 2019-01-19 08:45:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 804.29 Mbit/s
95th percentile per-packet one-way delay: 1.514 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 804.29 Mbit/s
95th percentile per-packet one-way delay: 1.514 ms
Loss rate: 0.01%
```

Run 5: Report of PCC-Allegro — Data Link

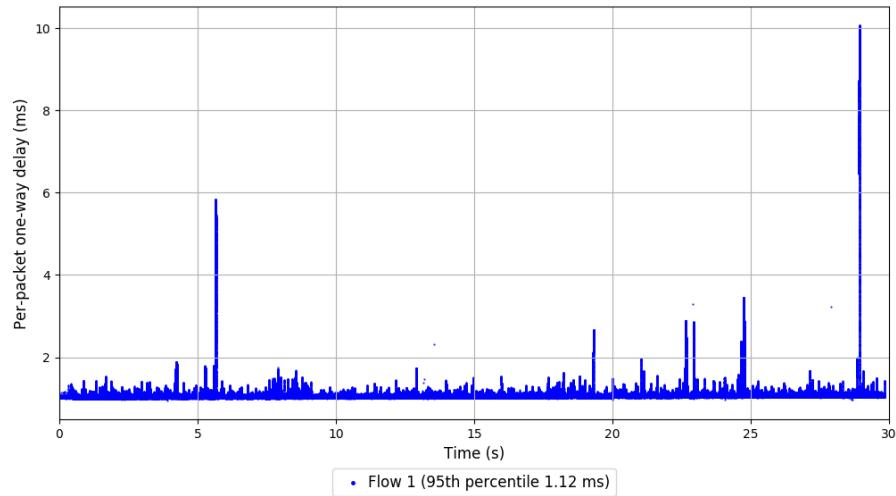
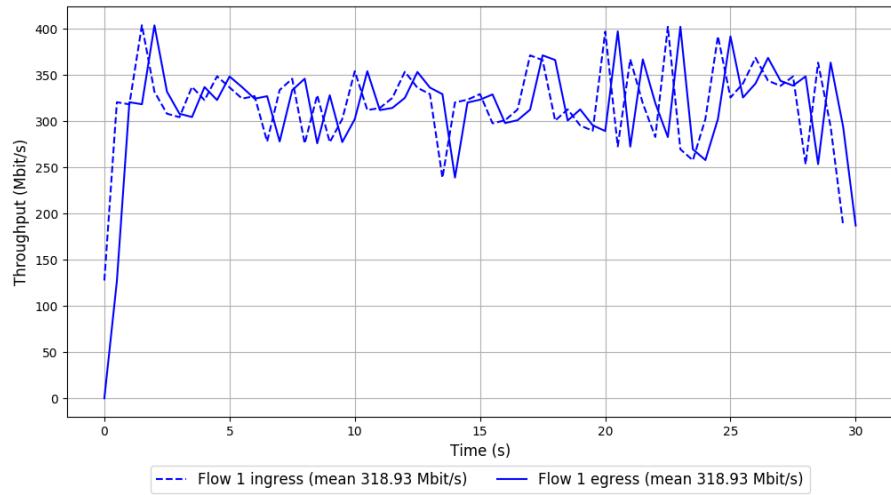


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-19 05:38:13
End at: 2019-01-19 05:38:43
Local clock offset: -0.26 ms
Remote clock offset: 3.096 ms

# Below is generated by plot.py at 2019-01-19 08:45:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 318.93 Mbit/s
95th percentile per-packet one-way delay: 1.119 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 318.93 Mbit/s
95th percentile per-packet one-way delay: 1.119 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

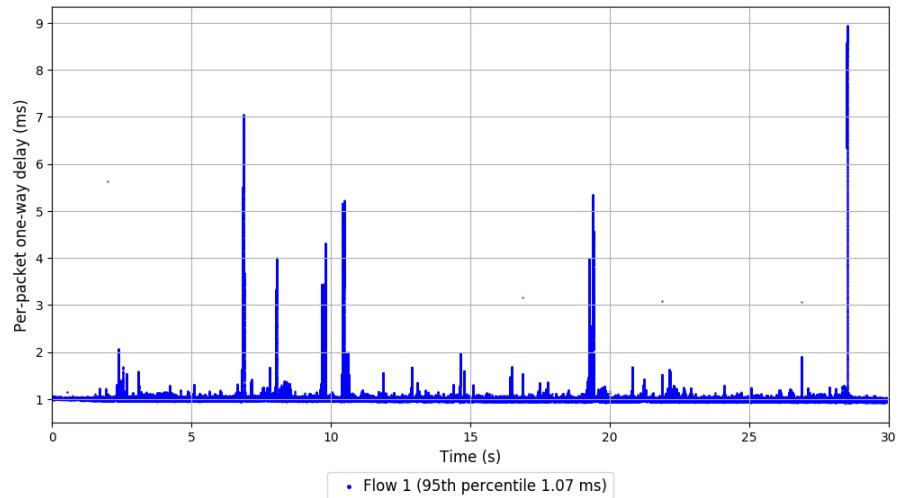
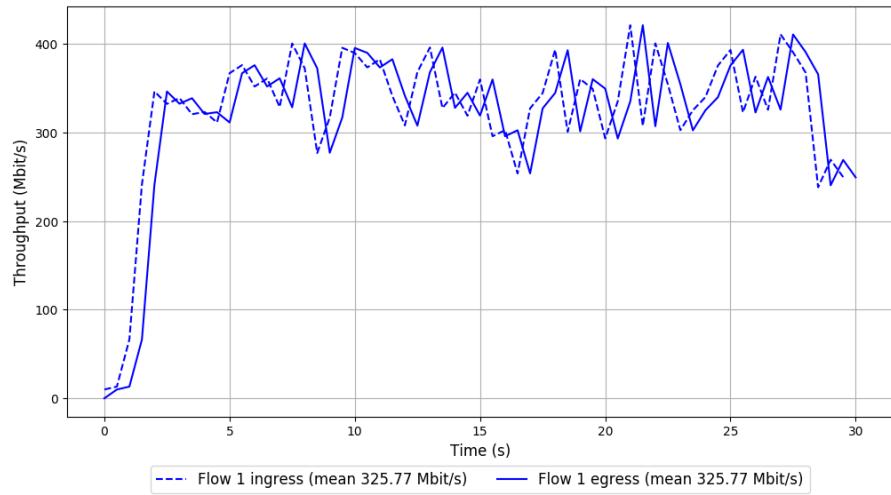


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-19 06:07:57
End at: 2019-01-19 06:08:27
Local clock offset: -0.14 ms
Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2019-01-19 08:45:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.77 Mbit/s
95th percentile per-packet one-way delay: 1.072 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 325.77 Mbit/s
95th percentile per-packet one-way delay: 1.072 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Expr — Data Link

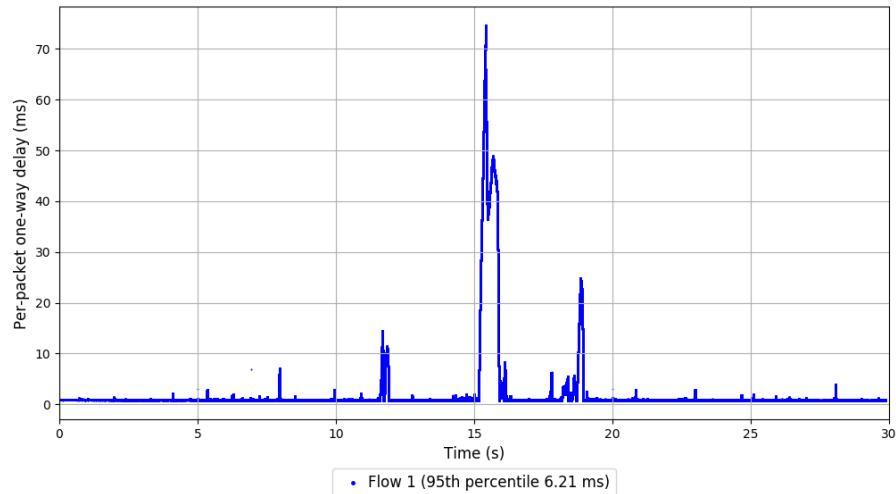
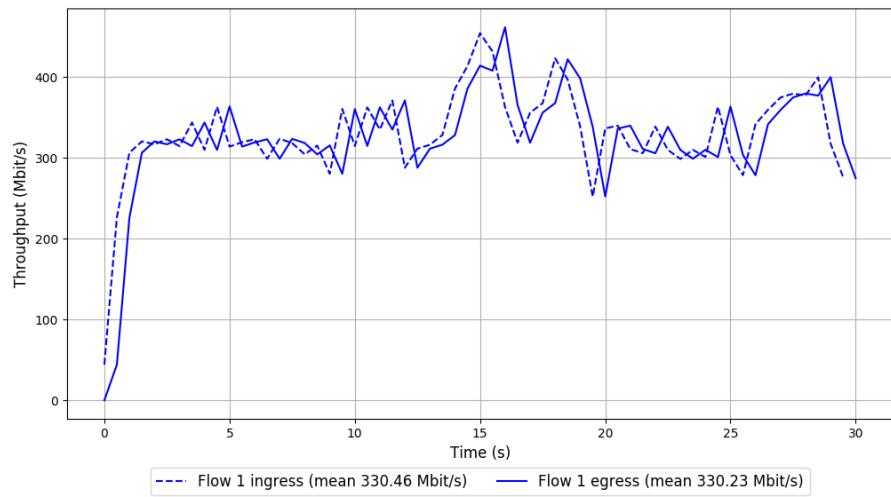


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-19 06:37:33
End at: 2019-01-19 06:38:03
Local clock offset: 3.156 ms
Remote clock offset: -3.109 ms

# Below is generated by plot.py at 2019-01-19 08:45:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.23 Mbit/s
95th percentile per-packet one-way delay: 6.209 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 330.23 Mbit/s
95th percentile per-packet one-way delay: 6.209 ms
Loss rate: 0.08%
```

Run 3: Report of PCC-Expr — Data Link

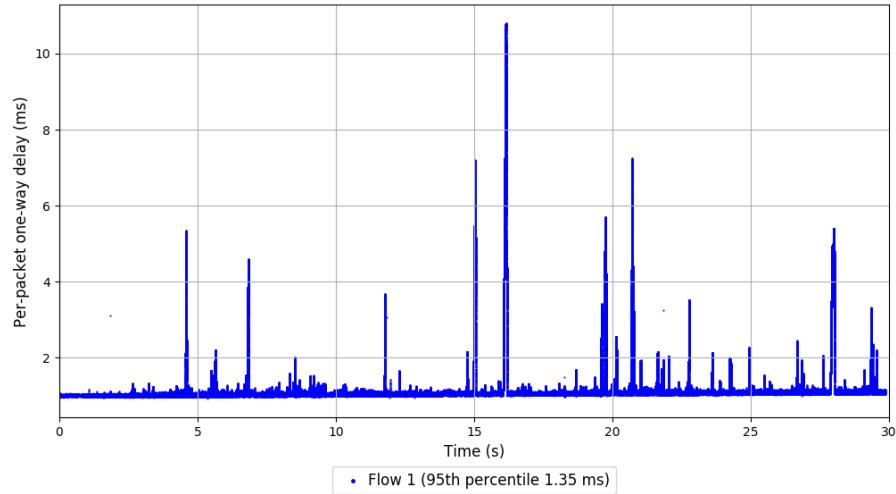
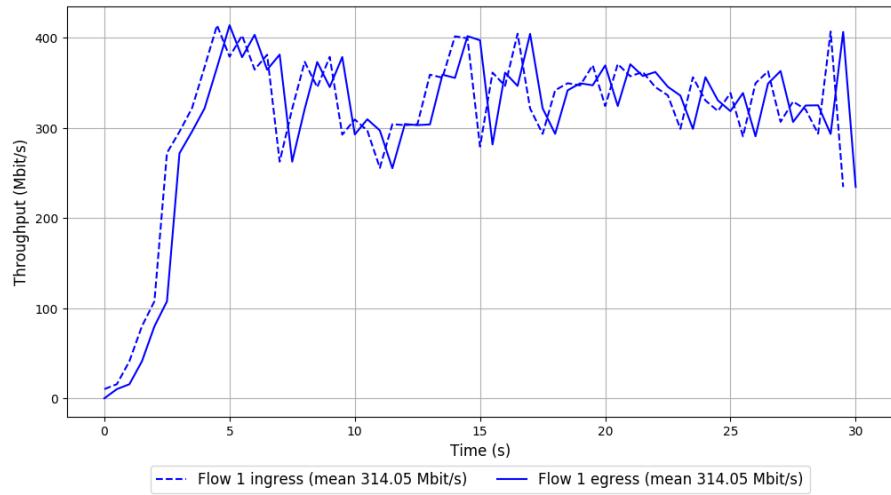


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-19 07:07:15
End at: 2019-01-19 07:07:45
Local clock offset: 4.664 ms
Remote clock offset: -1.187 ms

# Below is generated by plot.py at 2019-01-19 08:45:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 314.05 Mbit/s
95th percentile per-packet one-way delay: 1.354 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 314.05 Mbit/s
95th percentile per-packet one-way delay: 1.354 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Expr — Data Link

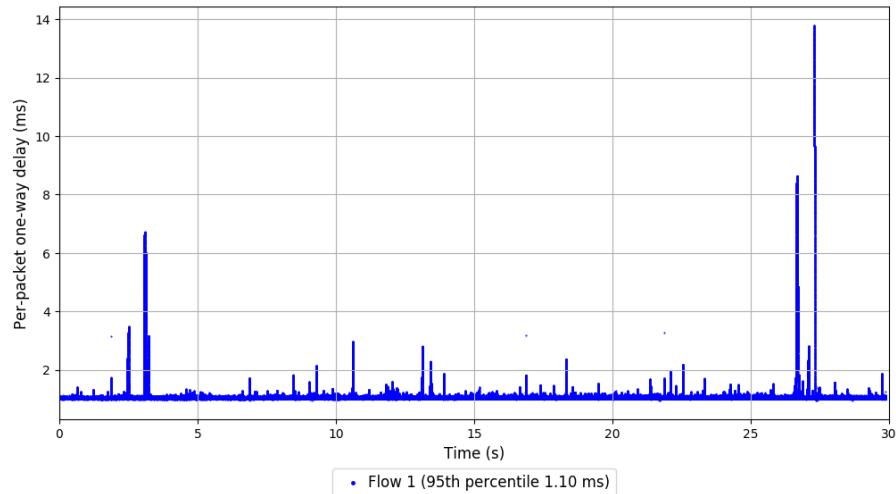
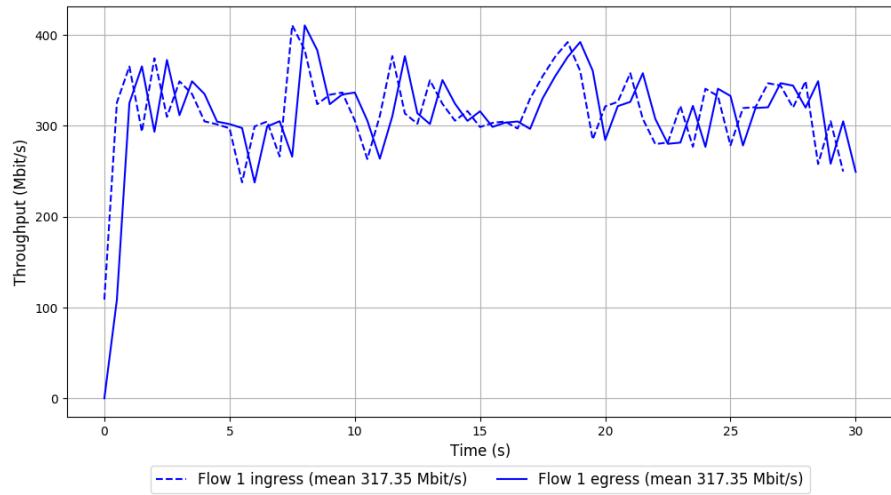


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-19 07:37:04
End at: 2019-01-19 07:37:34
Local clock offset: -0.371 ms
Remote clock offset: 0.901 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.35 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 317.35 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.01%
```

Run 5: Report of PCC-Expr — Data Link

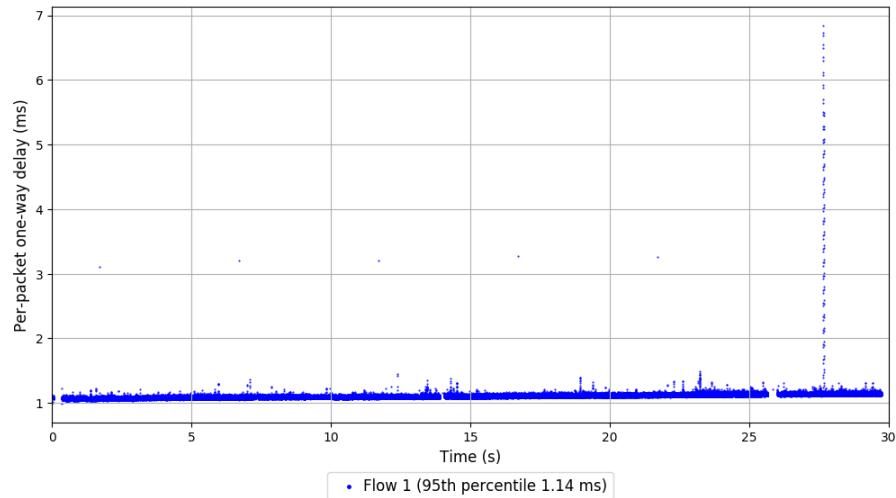
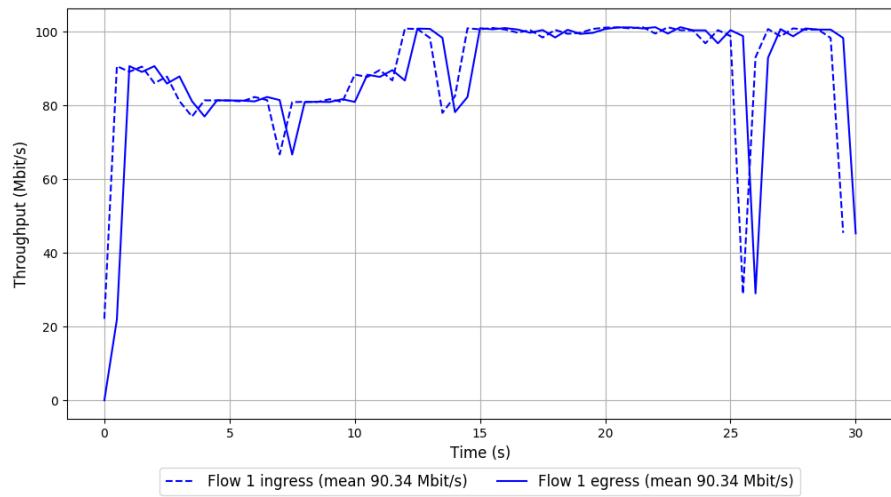


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-01-19 05:27:07
End at: 2019-01-19 05:27:38
Local clock offset: -0.279 ms
Remote clock offset: 1.72 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.34 Mbit/s
95th percentile per-packet one-way delay: 1.144 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 90.34 Mbit/s
95th percentile per-packet one-way delay: 1.144 ms
Loss rate: 0.01%
```

Run 1: Report of QUIC Cubic — Data Link

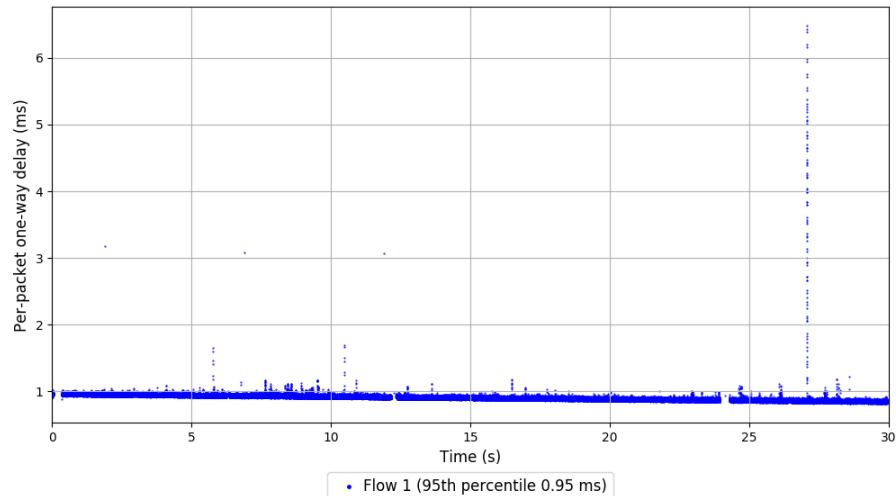
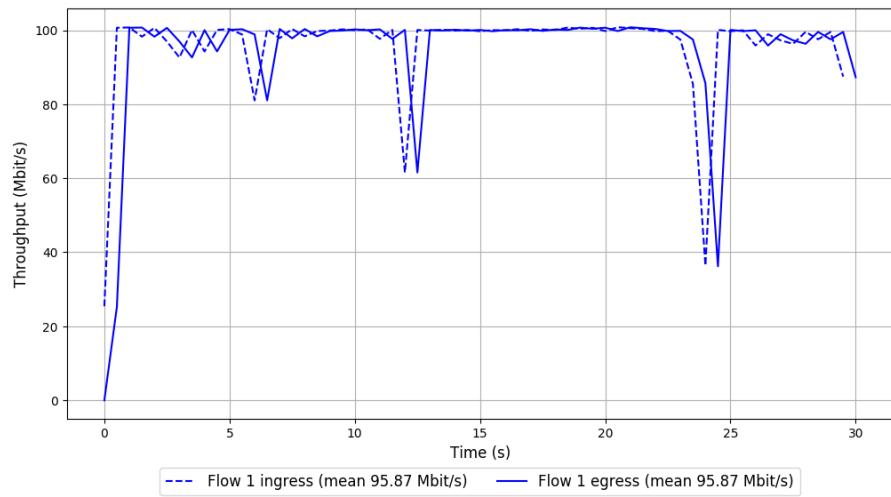


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-19 05:56:54
End at: 2019-01-19 05:57:24
Local clock offset: -0.201 ms
Remote clock offset: 1.525 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 0.949 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 0.949 ms
Loss rate: 0.01%
```

Run 2: Report of QUIC Cubic — Data Link

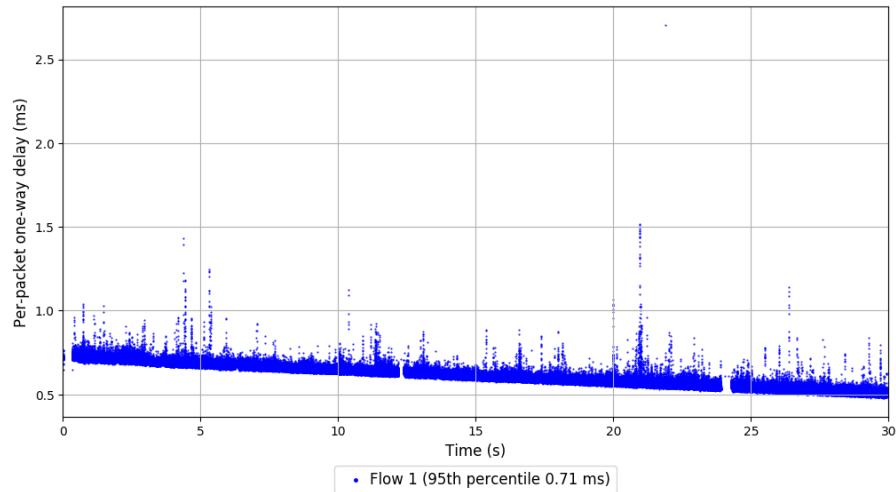
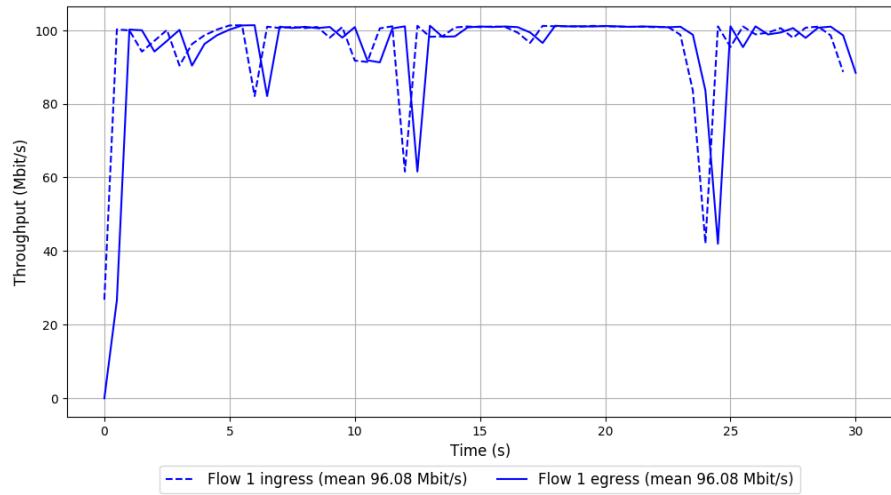


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-19 06:26:27
End at: 2019-01-19 06:26:57
Local clock offset: 1.766 ms
Remote clock offset: -1.155 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 0.713 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 0.713 ms
Loss rate: 0.01%
```

Run 3: Report of QUIC Cubic — Data Link

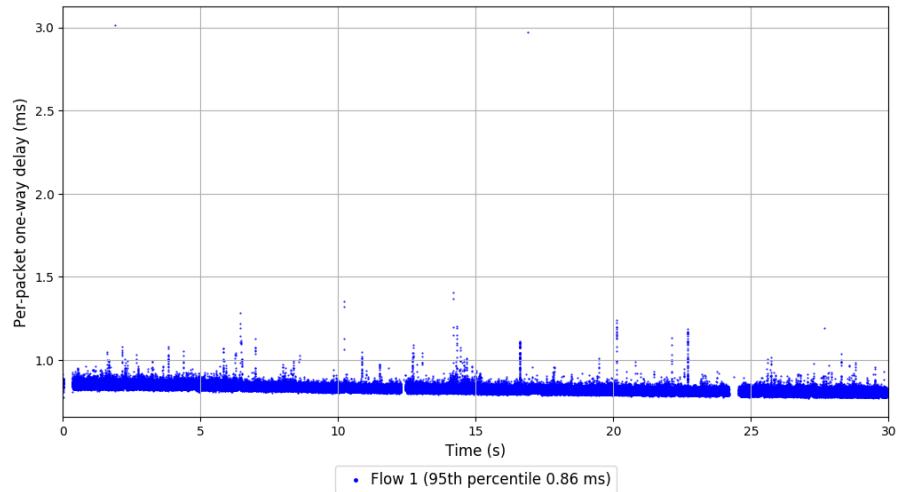
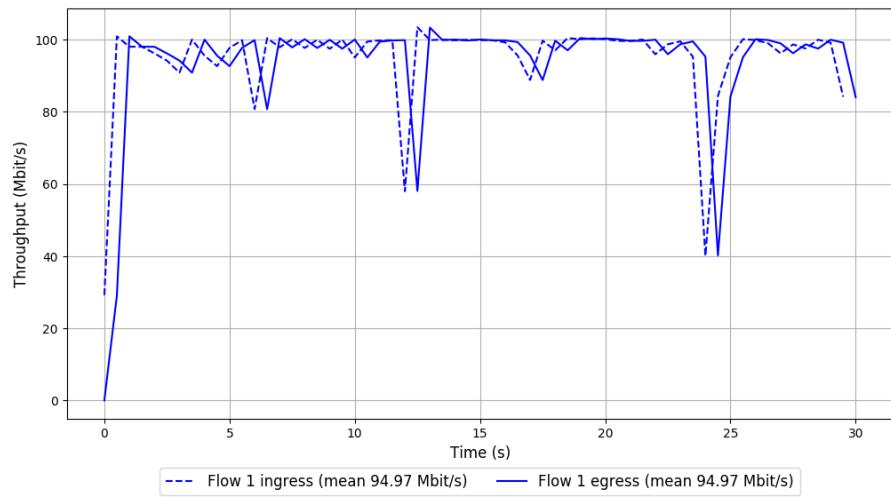


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-19 06:56:10
End at: 2019-01-19 06:56:40
Local clock offset: 4.194 ms
Remote clock offset: -4.382 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.97 Mbit/s
95th percentile per-packet one-way delay: 0.860 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.97 Mbit/s
95th percentile per-packet one-way delay: 0.860 ms
Loss rate: 0.01%
```

Run 4: Report of QUIC Cubic — Data Link

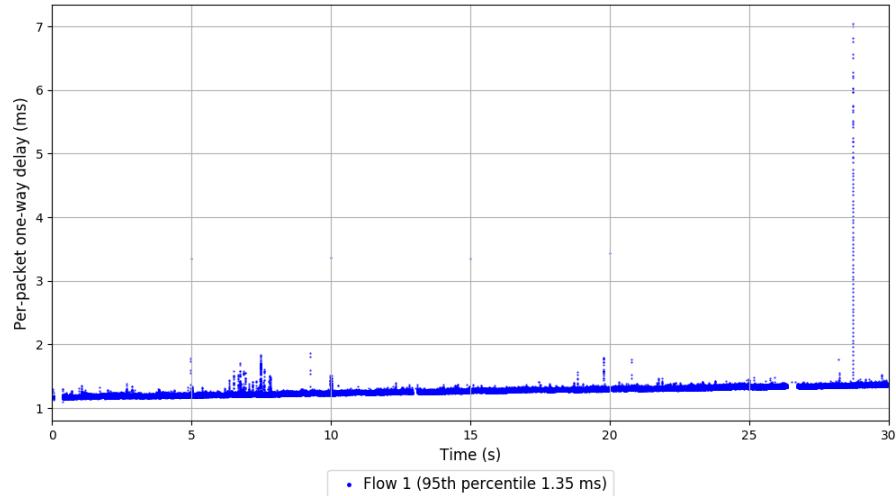
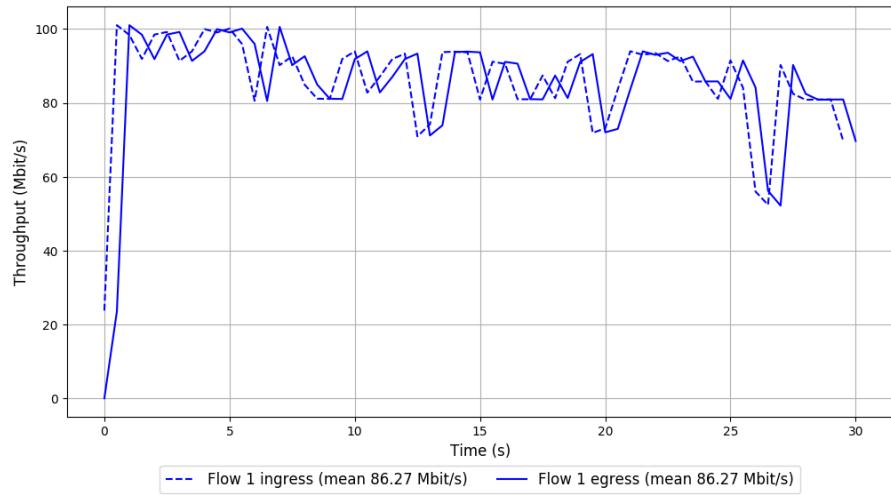


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-19 07:25:55
End at: 2019-01-19 07:26:25
Local clock offset: 2.076 ms
Remote clock offset: 1.181 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 1.350 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 1.350 ms
Loss rate: 0.01%
```

Run 5: Report of QUIC Cubic — Data Link

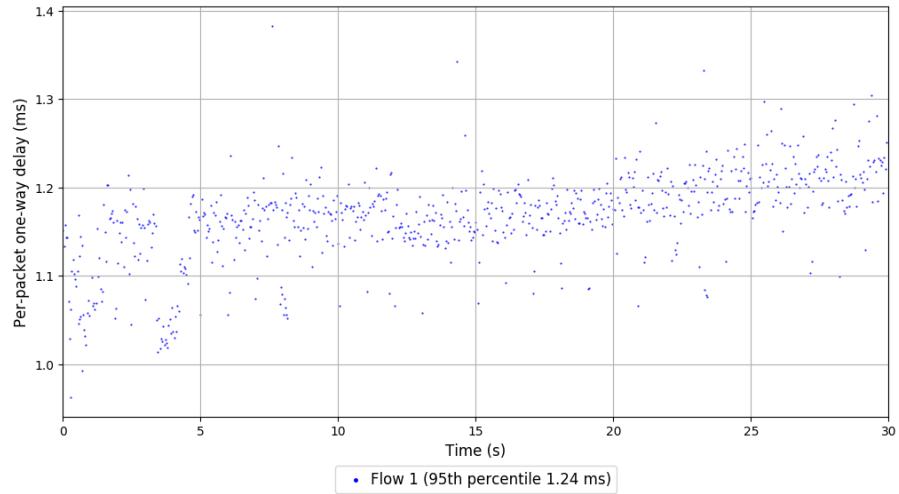
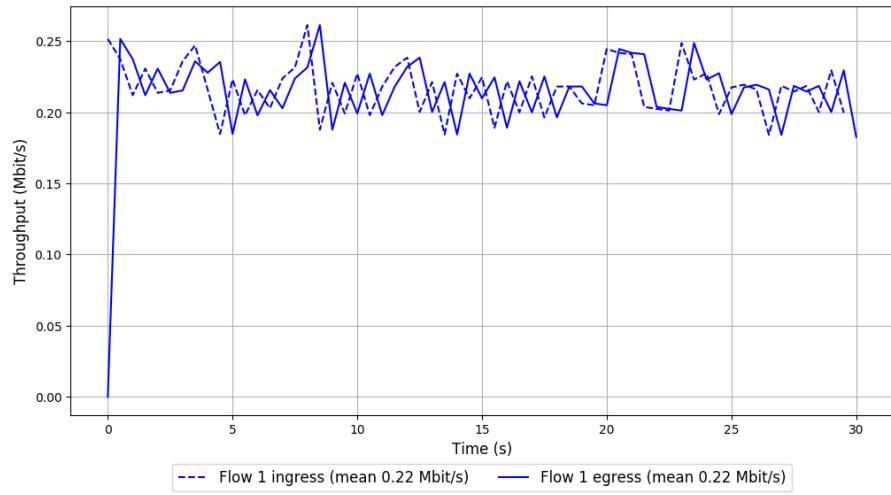


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-01-19 05:28:23
End at: 2019-01-19 05:28:53
Local clock offset: -0.277 ms
Remote clock offset: 1.979 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.13%
```

Run 1: Report of SCReAM — Data Link

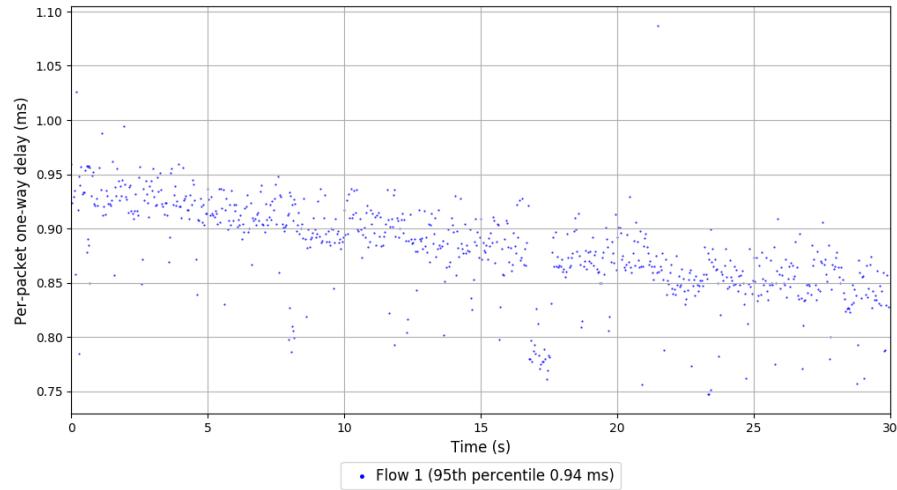
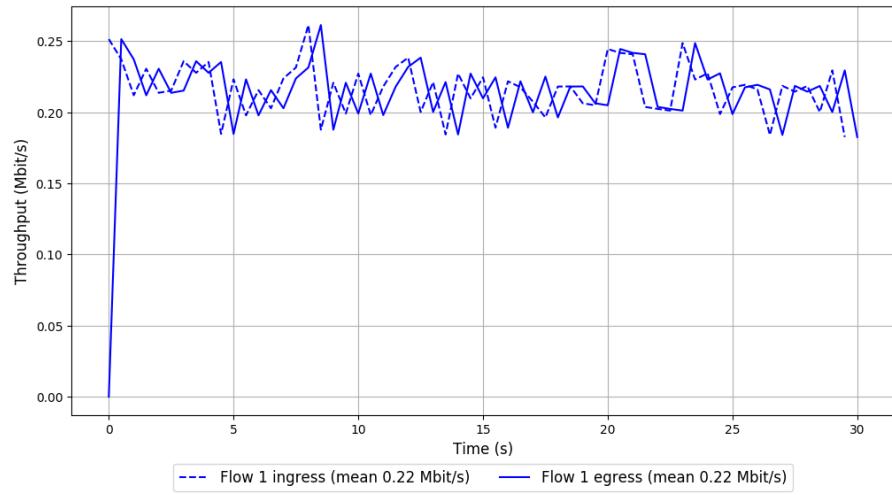


Run 2: Statistics of SCReAM

```
Start at: 2019-01-19 05:58:10
End at: 2019-01-19 05:58:40
Local clock offset: -0.184 ms
Remote clock offset: 1.374 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.939 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.939 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

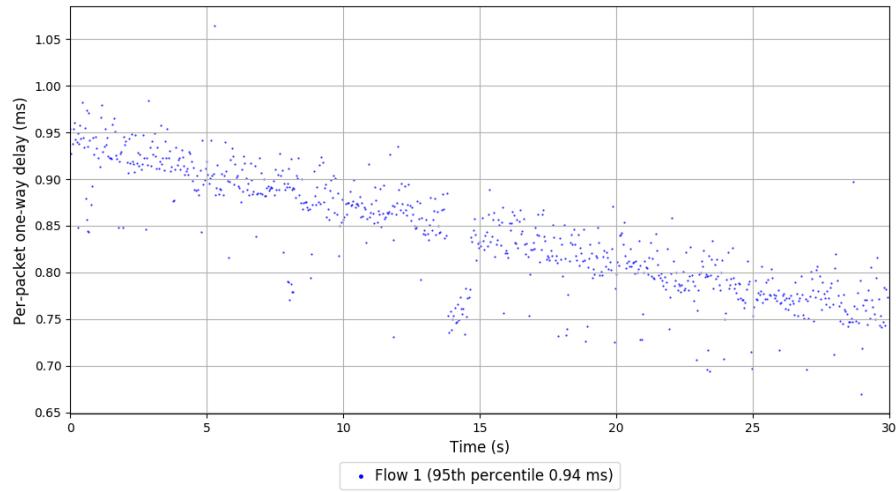
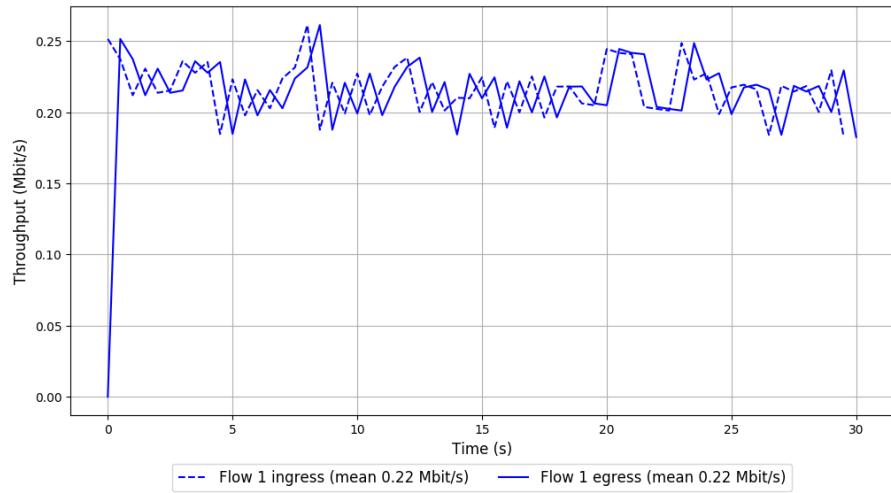


Run 3: Statistics of SCReAM

```
Start at: 2019-01-19 06:27:43
End at: 2019-01-19 06:28:13
Local clock offset: 1.996 ms
Remote clock offset: -1.571 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.939 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.939 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

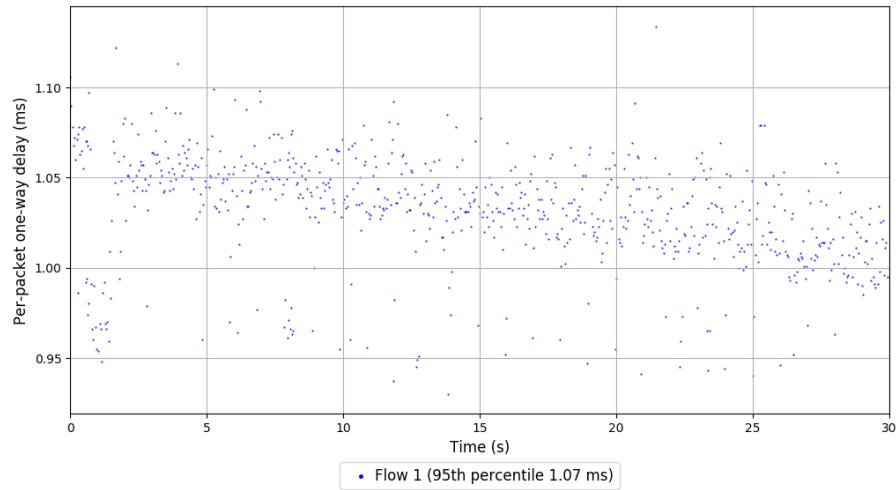
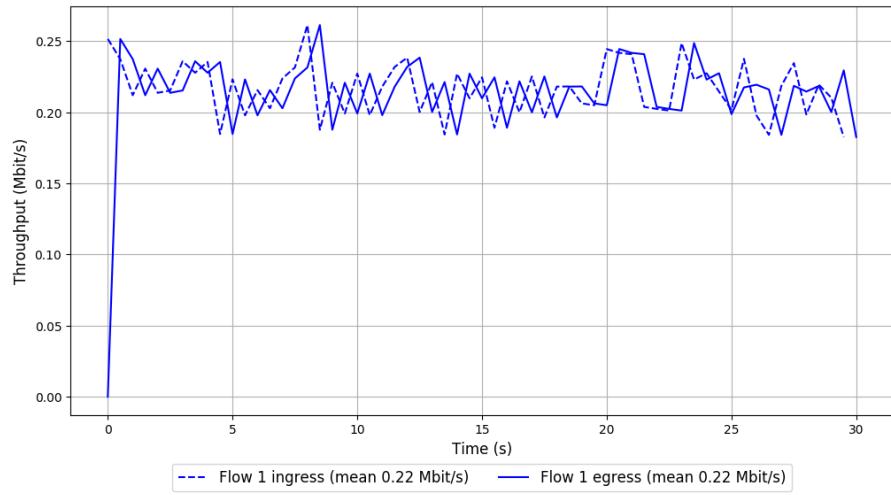


Run 4: Statistics of SCReAM

```
Start at: 2019-01-19 06:57:26
End at: 2019-01-19 06:57:56
Local clock offset: 4.263 ms
Remote clock offset: -4.53 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.074 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.074 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

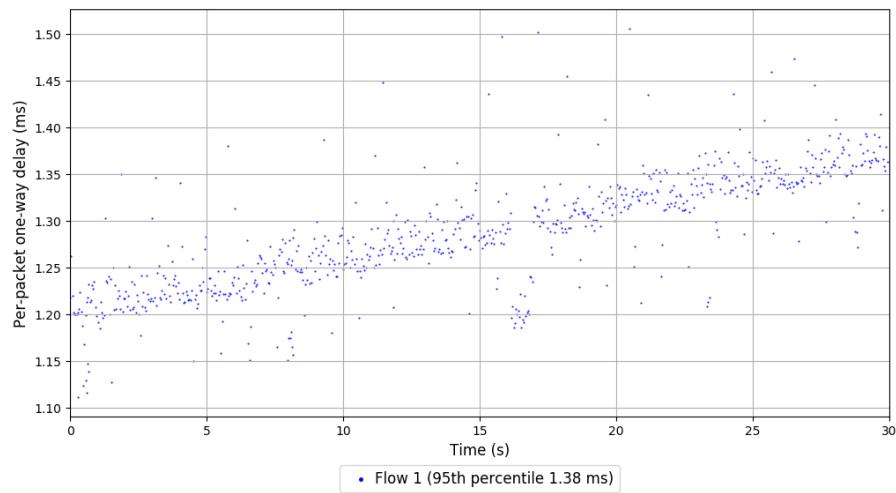
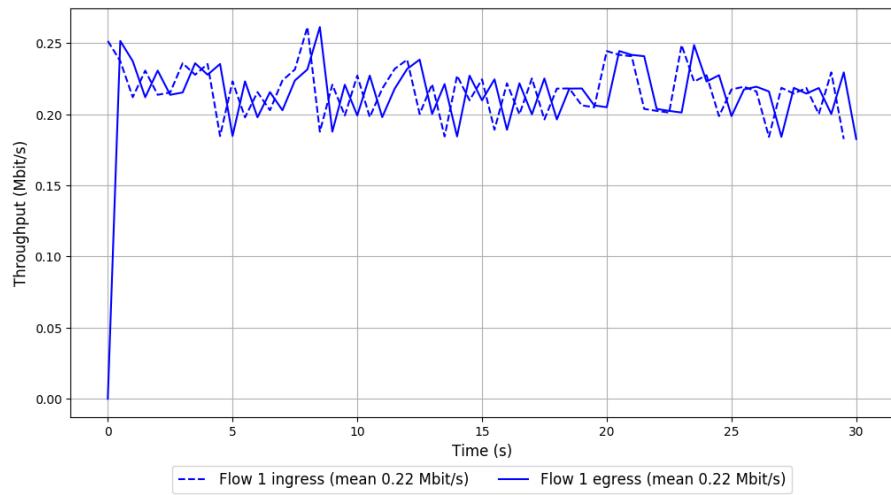


Run 5: Statistics of SCReAM

```
Start at: 2019-01-19 07:27:10
End at: 2019-01-19 07:27:40
Local clock offset: 1.653 ms
Remote clock offset: 1.301 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.375 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.375 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

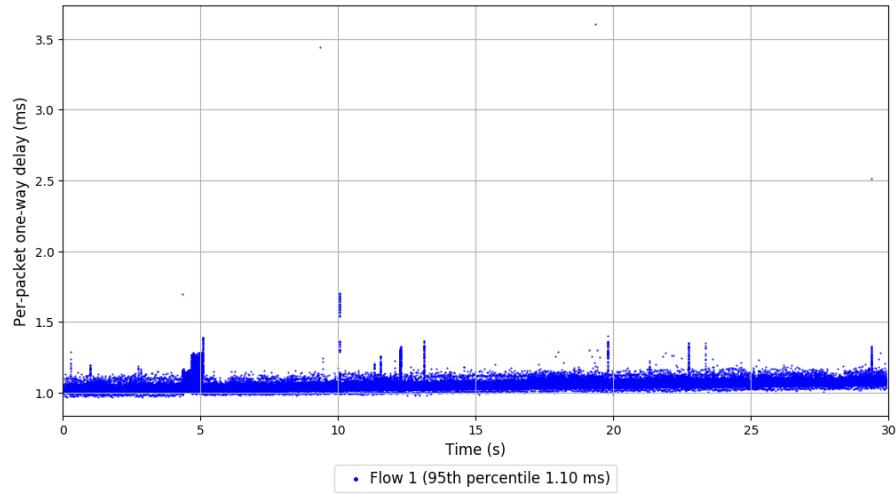
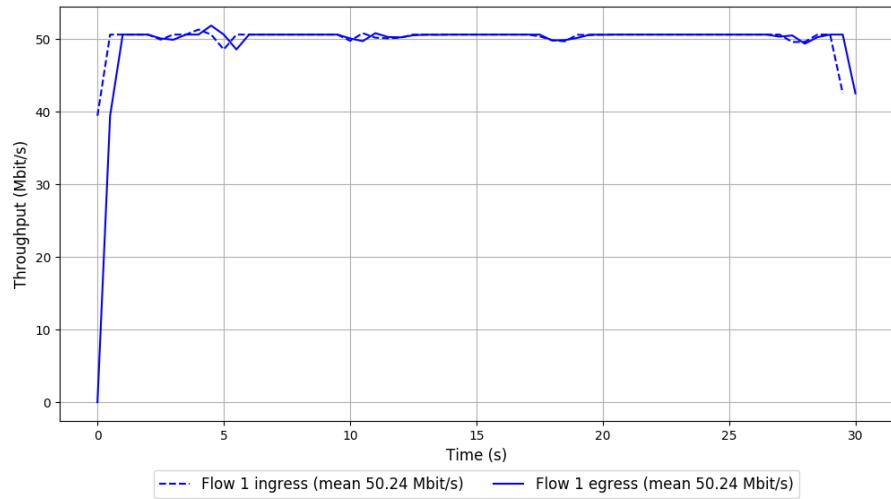


Run 1: Statistics of Sprout

```
Start at: 2019-01-19 05:32:22
End at: 2019-01-19 05:32:52
Local clock offset: -0.264 ms
Remote clock offset: 2.542 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 1.099 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 1.099 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

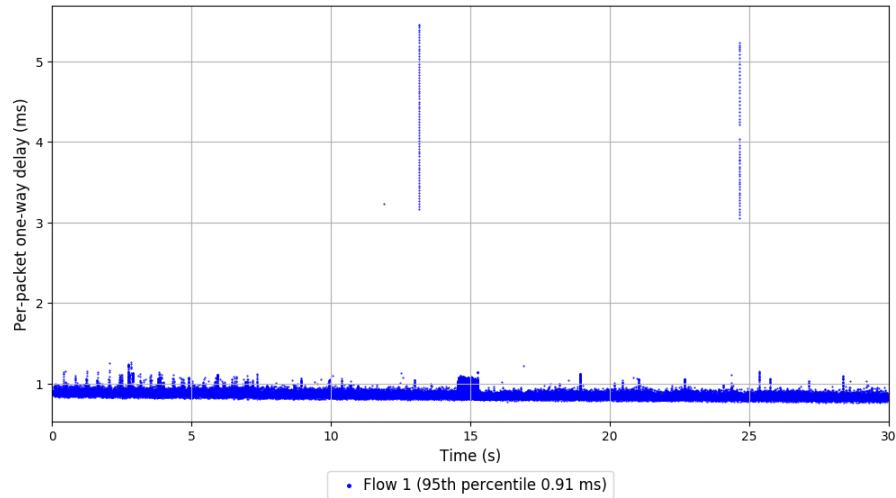
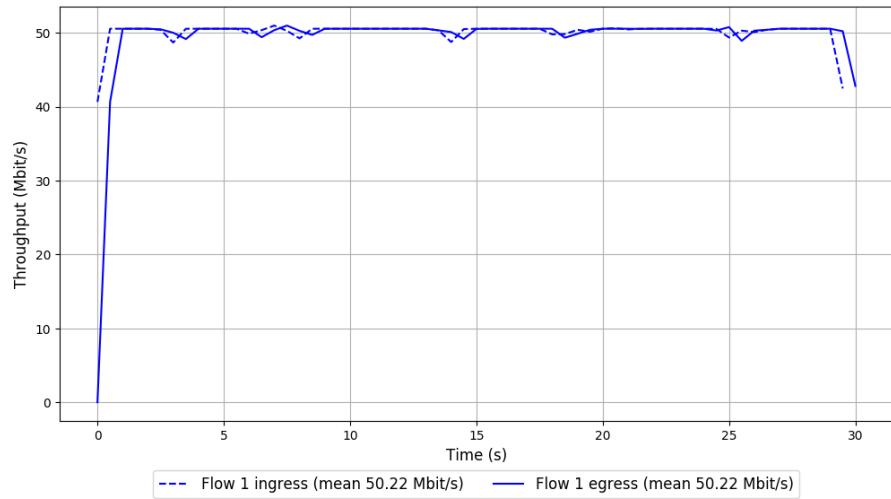


Run 2: Statistics of Sprout

```
Start at: 2019-01-19 06:02:12
End at: 2019-01-19 06:02:42
Local clock offset: -0.159 ms
Remote clock offset: 0.716 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 0.913 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 0.913 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

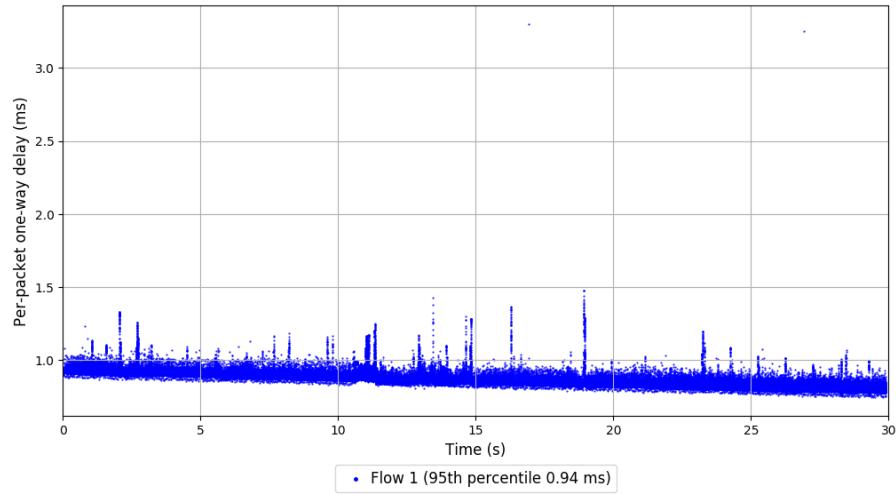
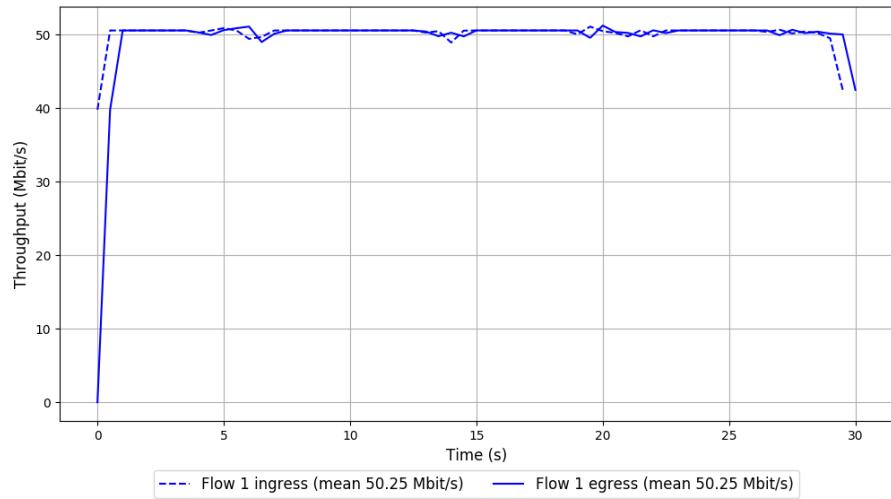


Run 3: Statistics of Sprout

```
Start at: 2019-01-19 06:31:46
End at: 2019-01-19 06:32:16
Local clock offset: 2.601 ms
Remote clock offset: -2.362 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 0.945 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 0.945 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

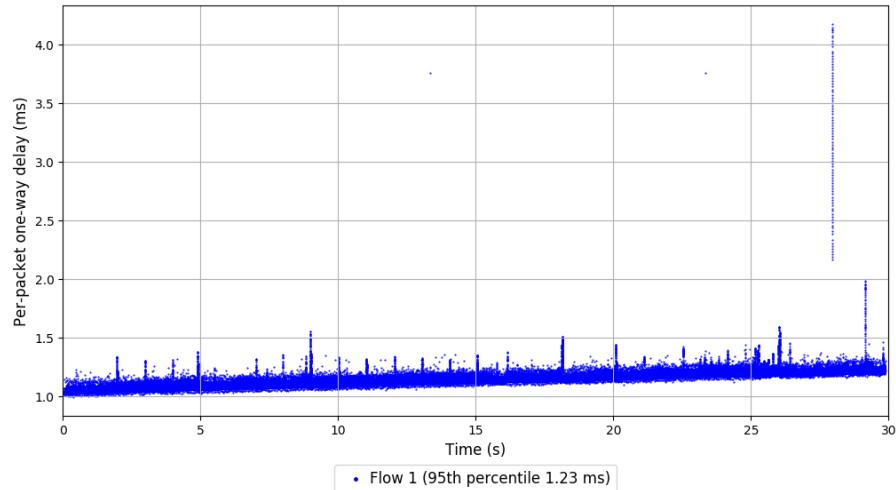
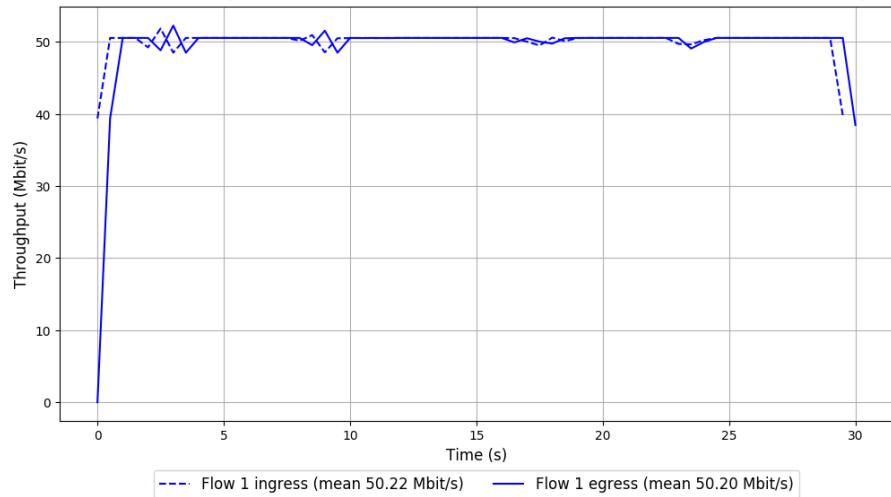


Run 4: Statistics of Sprout

```
Start at: 2019-01-19 07:01:31
End at: 2019-01-19 07:02:01
Local clock offset: 4.422 ms
Remote clock offset: -3.032 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 1.232 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 1.232 ms
Loss rate: 0.05%
```

Run 4: Report of Sprout — Data Link

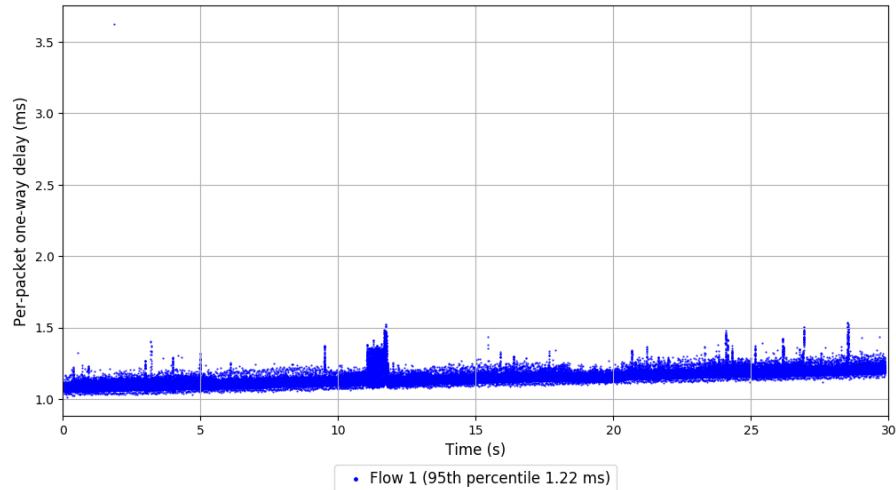
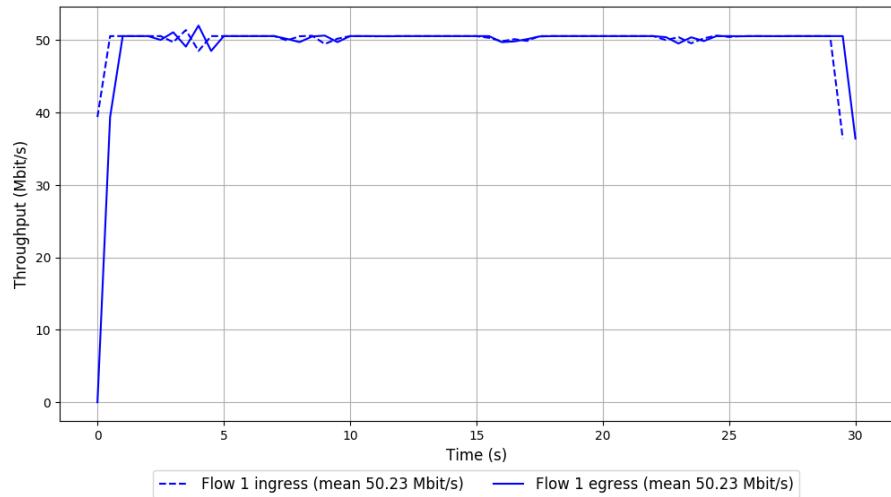


Run 5: Statistics of Sprout

```
Start at: 2019-01-19 07:31:15
End at: 2019-01-19 07:31:45
Local clock offset: 0.628 ms
Remote clock offset: 1.581 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 1.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 1.219 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

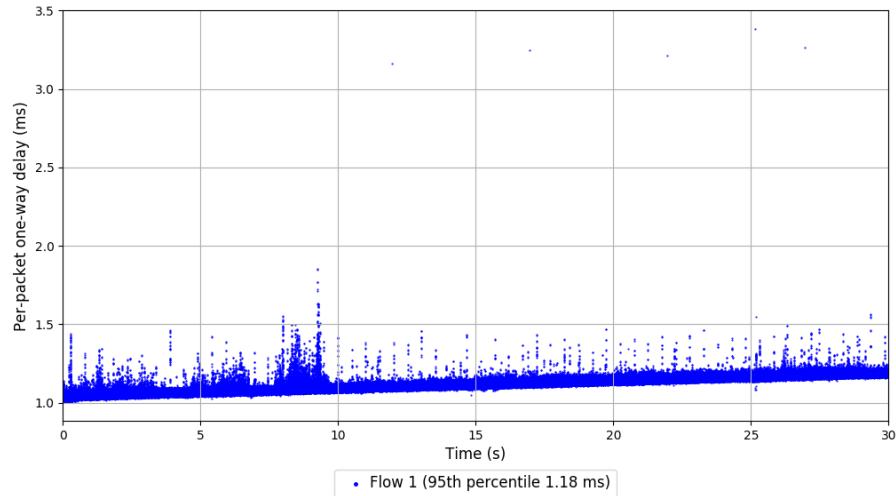
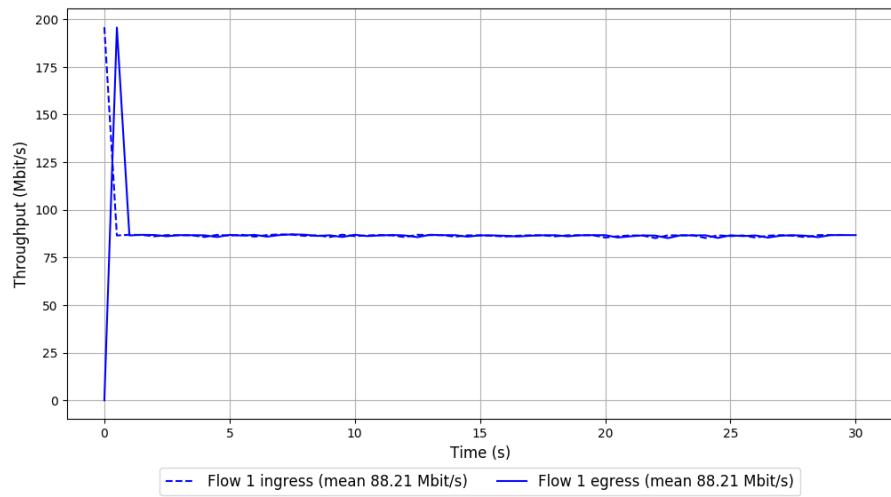


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-19 05:20:02
End at: 2019-01-19 05:20:32
Local clock offset: -0.411 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.21 Mbit/s
95th percentile per-packet one-way delay: 1.184 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.21 Mbit/s
95th percentile per-packet one-way delay: 1.184 ms
Loss rate: 0.01%
```

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

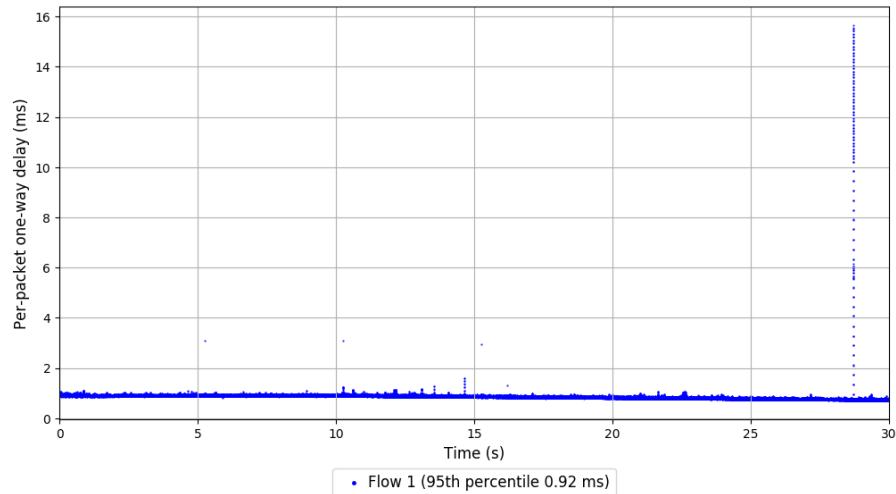
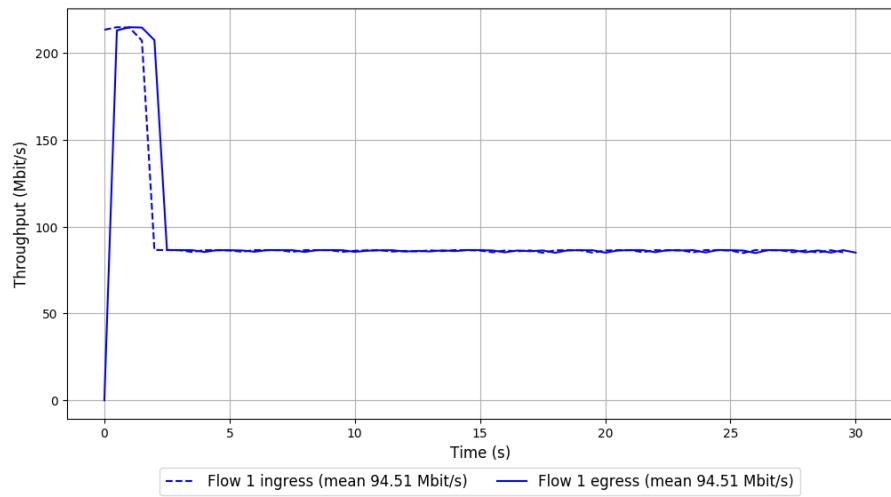


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-19 05:49:45
End at: 2019-01-19 05:50:15
Local clock offset: -0.325 ms
Remote clock offset: 3.978 ms

# Below is generated by plot.py at 2019-01-19 08:47:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.51 Mbit/s
95th percentile per-packet one-way delay: 0.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.51 Mbit/s
95th percentile per-packet one-way delay: 0.915 ms
Loss rate: 0.00%
```

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

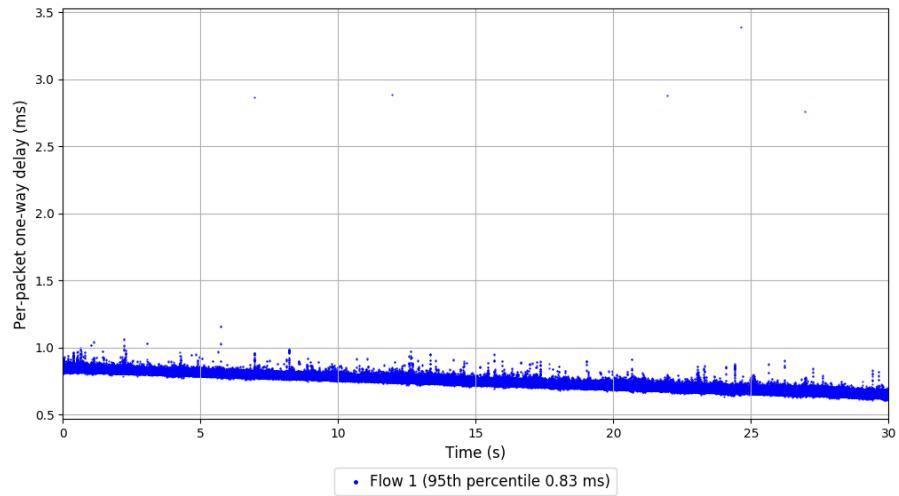
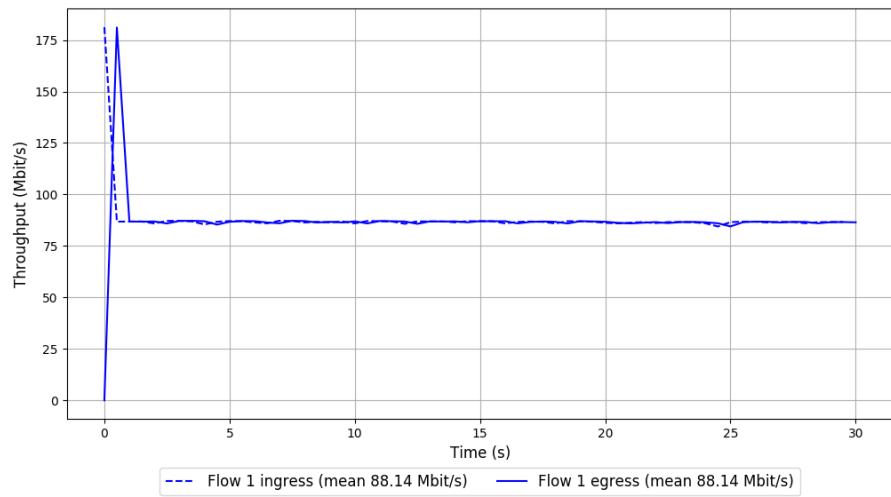


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-19 06:19:25
End at: 2019-01-19 06:19:55
Local clock offset: -0.179 ms
Remote clock offset: -0.541 ms

# Below is generated by plot.py at 2019-01-19 08:47:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.14 Mbit/s
95th percentile per-packet one-way delay: 0.834 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.14 Mbit/s
95th percentile per-packet one-way delay: 0.834 ms
Loss rate: 0.01%
```

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

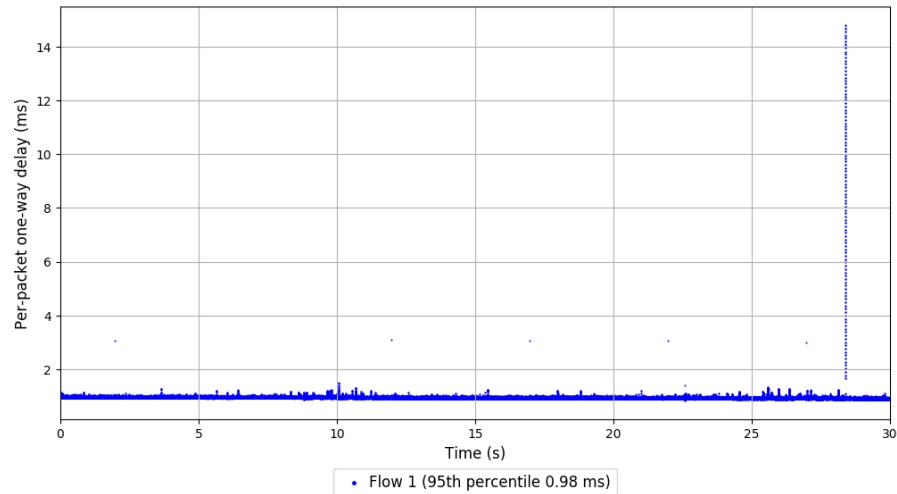
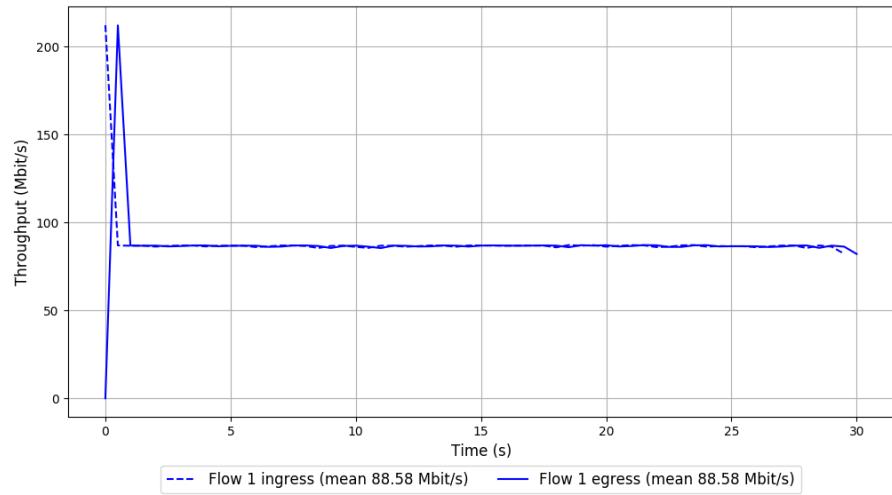


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-19 06:49:05
End at: 2019-01-19 06:49:35
Local clock offset: 3.886 ms
Remote clock offset: -4.052 ms

# Below is generated by plot.py at 2019-01-19 08:47:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.58 Mbit/s
95th percentile per-packet one-way delay: 0.978 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.58 Mbit/s
95th percentile per-packet one-way delay: 0.978 ms
Loss rate: 0.01%
```

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

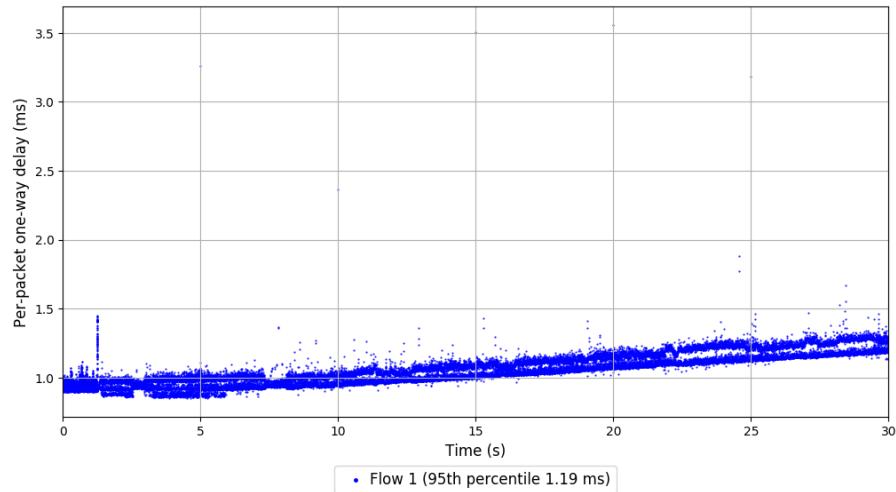
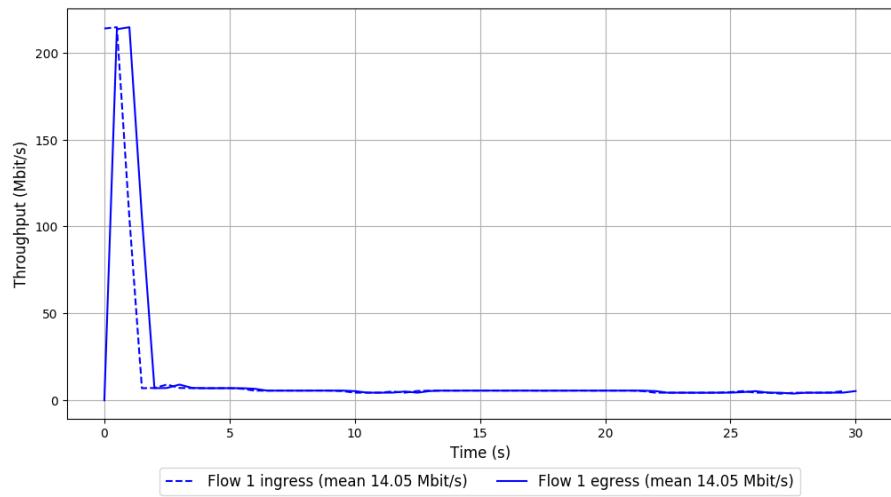


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-19 07:18:49
End at: 2019-01-19 07:19:19
Local clock offset: 5.104 ms
Remote clock offset: 0.601 ms

# Below is generated by plot.py at 2019-01-19 08:47:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.05 Mbit/s
95th percentile per-packet one-way delay: 1.191 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.05 Mbit/s
95th percentile per-packet one-way delay: 1.191 ms
Loss rate: 0.00%
```

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

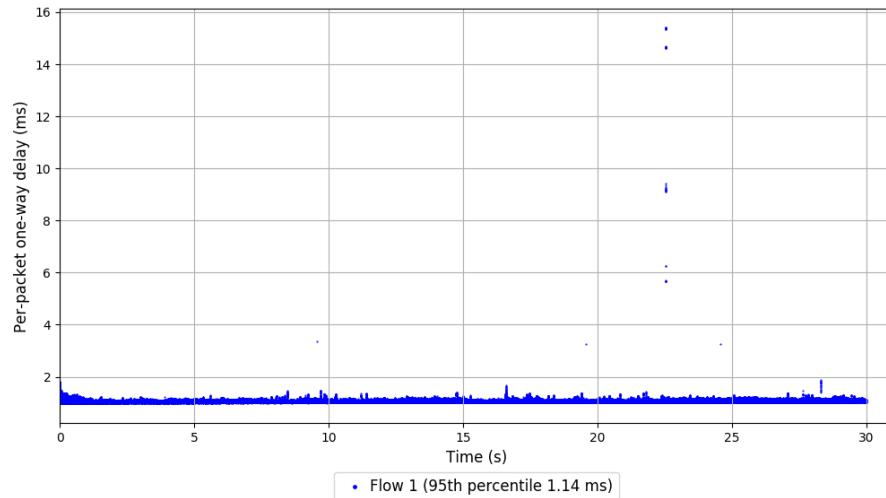
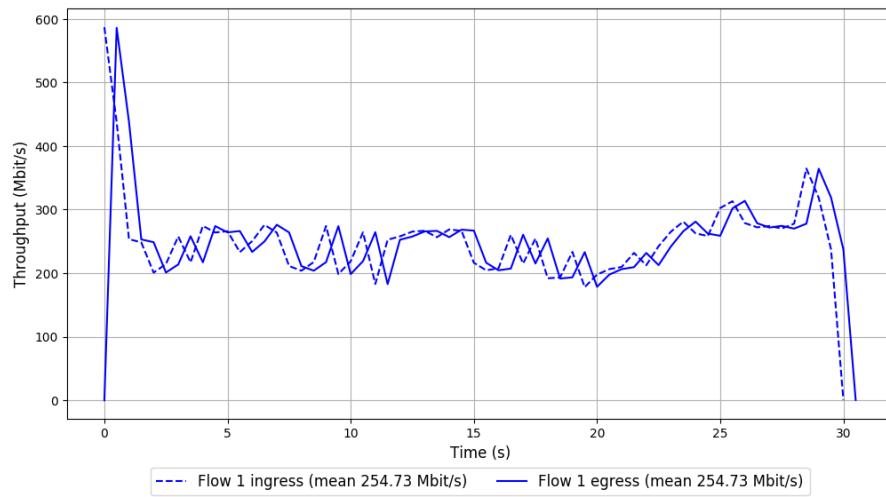


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-19 05:42:31
End at: 2019-01-19 05:43:01
Local clock offset: -0.292 ms
Remote clock offset: 3.418 ms

# Below is generated by plot.py at 2019-01-19 08:48:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.73 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 254.73 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

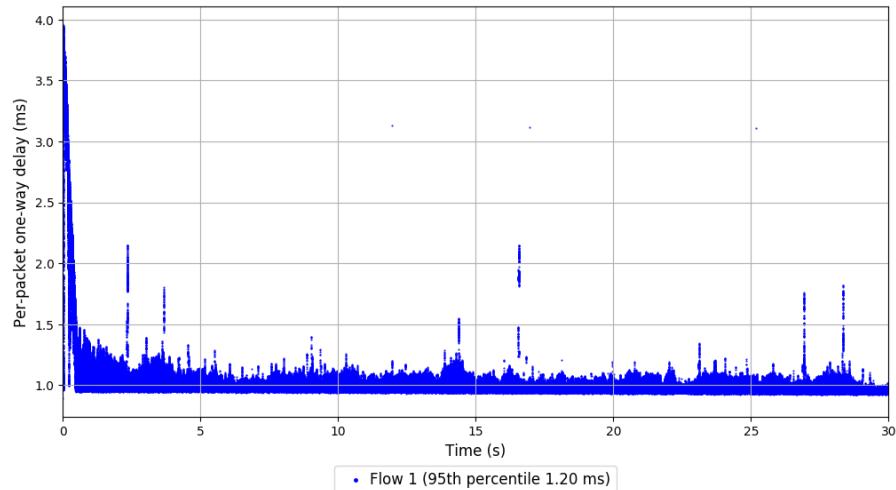
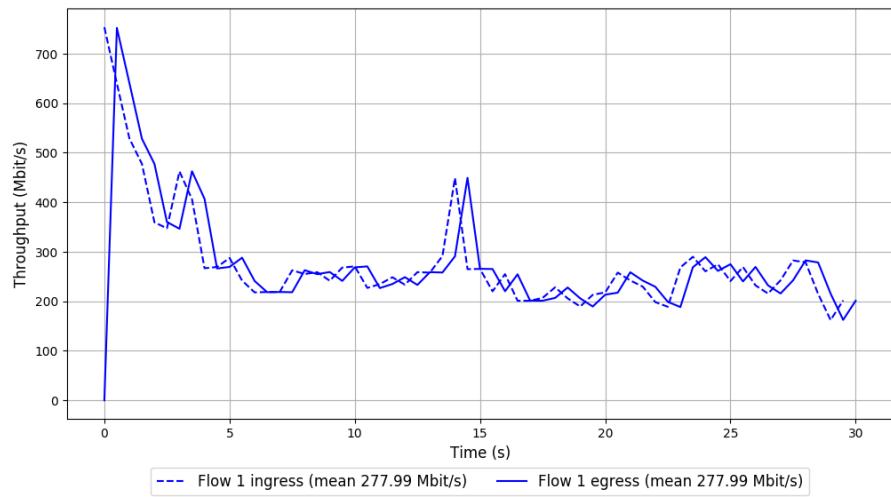


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-19 06:12:13
End at: 2019-01-19 06:12:43
Local clock offset: -0.155 ms
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2019-01-19 08:48:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 277.99 Mbit/s
95th percentile per-packet one-way delay: 1.202 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 277.99 Mbit/s
95th percentile per-packet one-way delay: 1.202 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

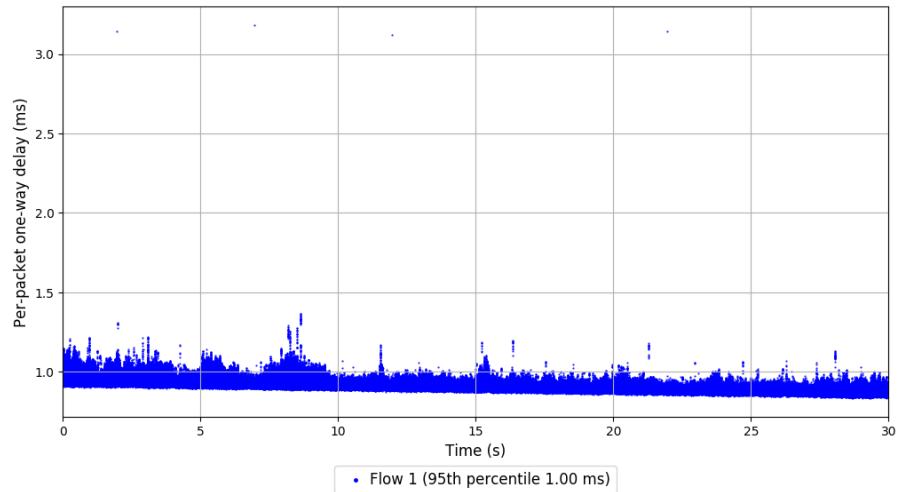
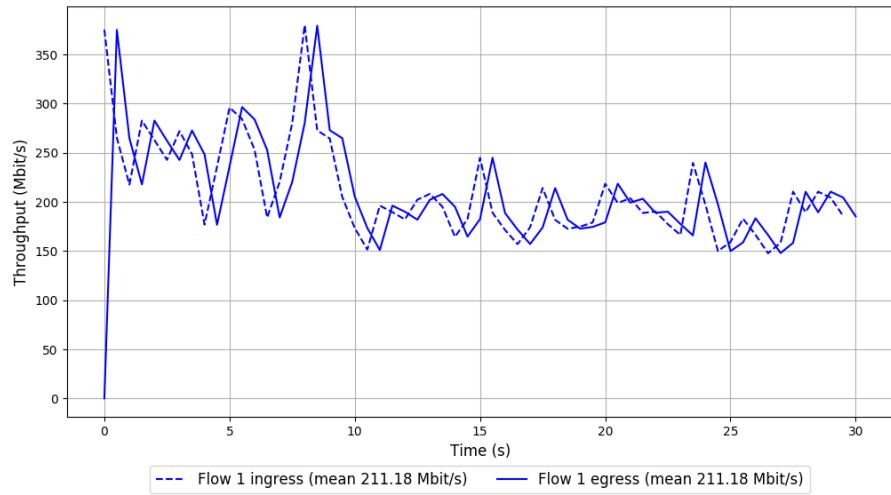


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-19 06:41:52
End at: 2019-01-19 06:42:22
Local clock offset: 3.48 ms
Remote clock offset: -3.521 ms

# Below is generated by plot.py at 2019-01-19 08:48:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.18 Mbit/s
95th percentile per-packet one-way delay: 1.003 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 211.18 Mbit/s
95th percentile per-packet one-way delay: 1.003 ms
Loss rate: 0.01%
```

Run 3: Report of TCP Vegas — Data Link

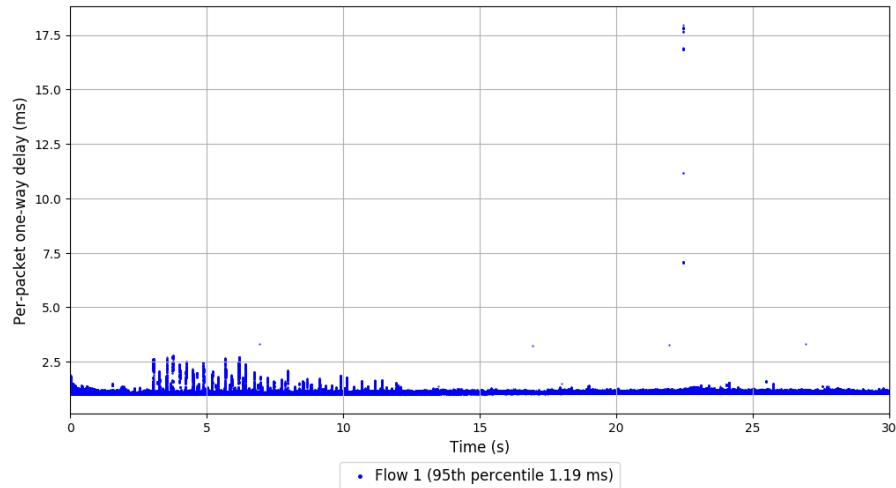
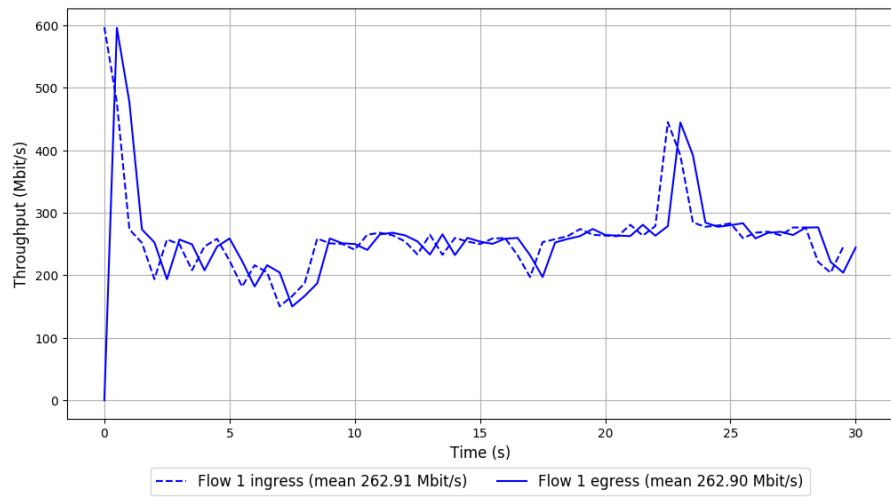


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-19 07:11:34
End at: 2019-01-19 07:12:04
Local clock offset: 4.831 ms
Remote clock offset: -0.388 ms

# Below is generated by plot.py at 2019-01-19 08:50:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 262.90 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 262.90 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.01%
```

Run 4: Report of TCP Vegas — Data Link

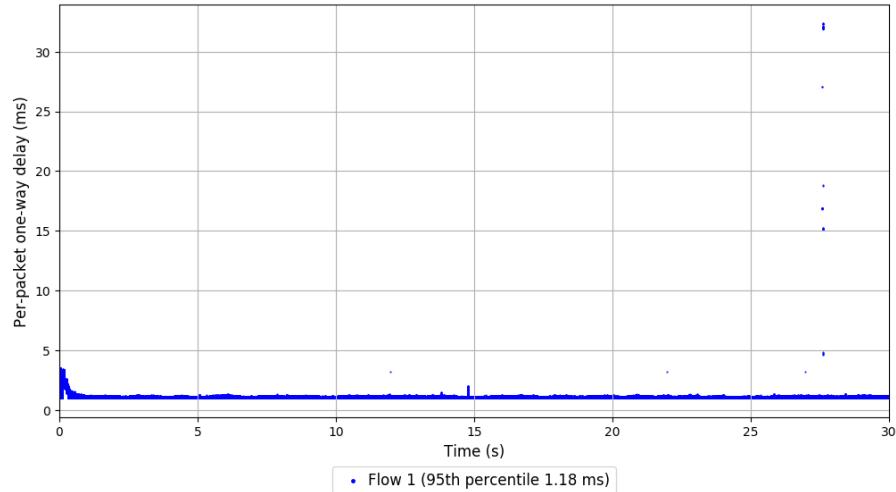
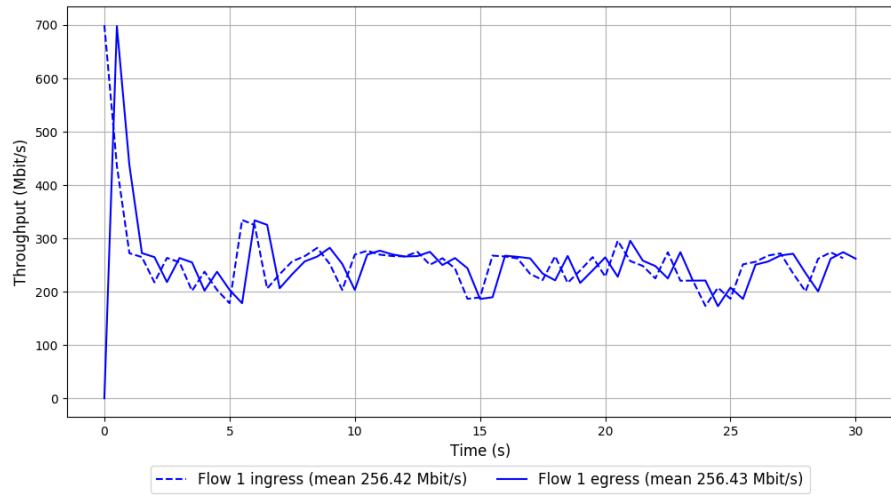


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-19 07:41:21
End at: 2019-01-19 07:41:51
Local clock offset: -0.847 ms
Remote clock offset: 0.61 ms

# Below is generated by plot.py at 2019-01-19 08:50:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.43 Mbit/s
95th percentile per-packet one-way delay: 1.183 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 256.43 Mbit/s
95th percentile per-packet one-way delay: 1.183 ms
Loss rate: 0.01%
```

Run 5: Report of TCP Vegas — Data Link

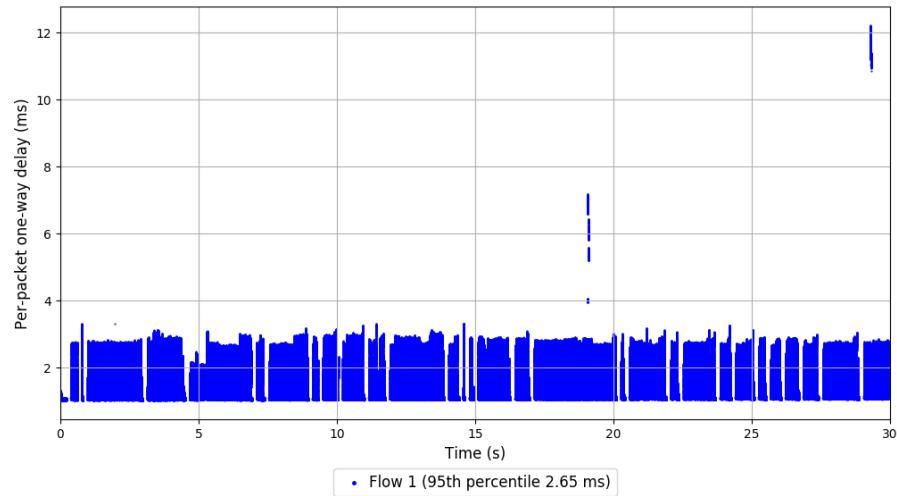
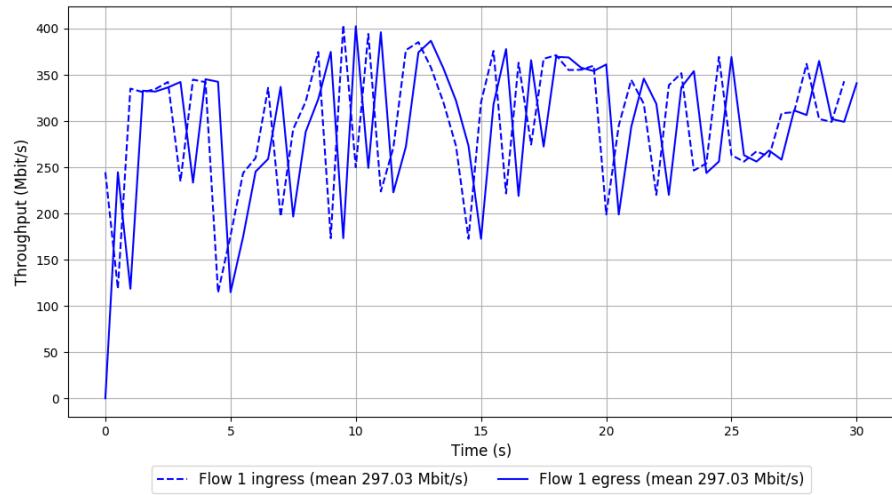


Run 1: Statistics of Verus

```
Start at: 2019-01-19 05:43:52
End at: 2019-01-19 05:44:22
Local clock offset: -0.283 ms
Remote clock offset: 3.517 ms

# Below is generated by plot.py at 2019-01-19 08:50:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.03 Mbit/s
95th percentile per-packet one-way delay: 2.651 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 297.03 Mbit/s
95th percentile per-packet one-way delay: 2.651 ms
Loss rate: 0.01%
```

Run 1: Report of Verus — Data Link

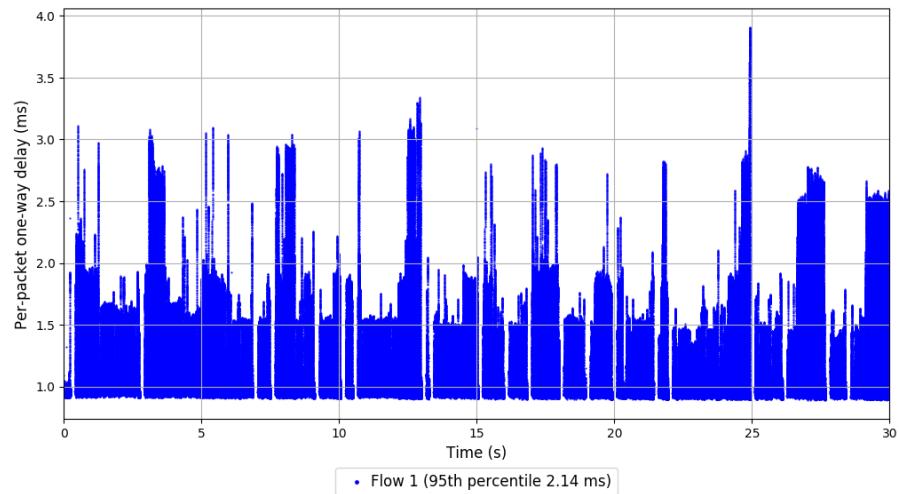
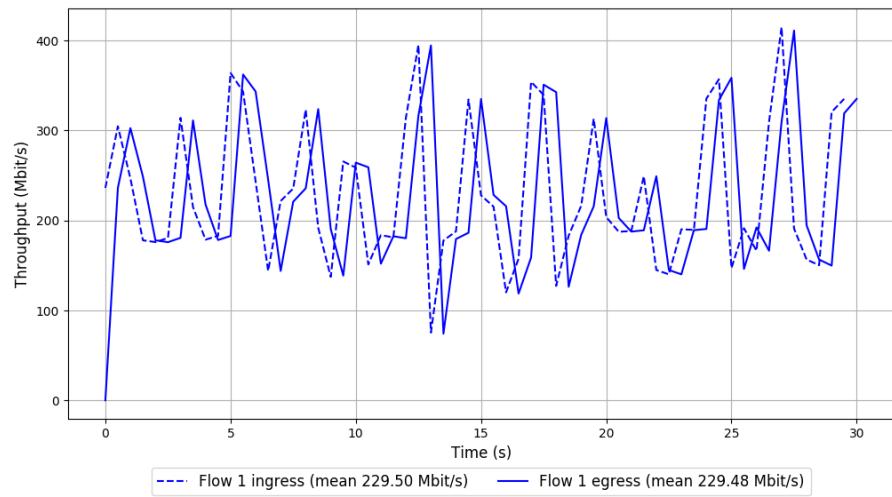


Run 2: Statistics of Verus

```
Start at: 2019-01-19 06:13:34
End at: 2019-01-19 06:14:04
Local clock offset: -0.15 ms
Remote clock offset: -0.247 ms

# Below is generated by plot.py at 2019-01-19 08:50:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.48 Mbit/s
95th percentile per-packet one-way delay: 2.141 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 229.48 Mbit/s
95th percentile per-packet one-way delay: 2.141 ms
Loss rate: 0.01%
```

Run 2: Report of Verus — Data Link

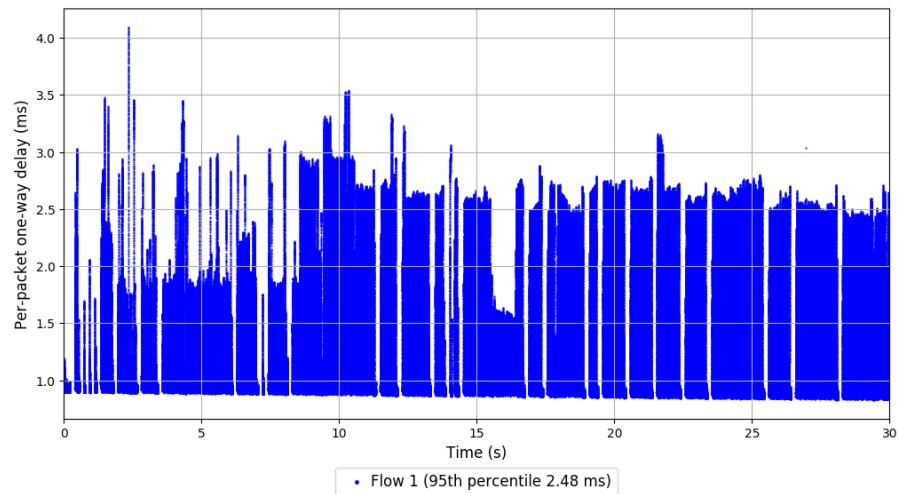
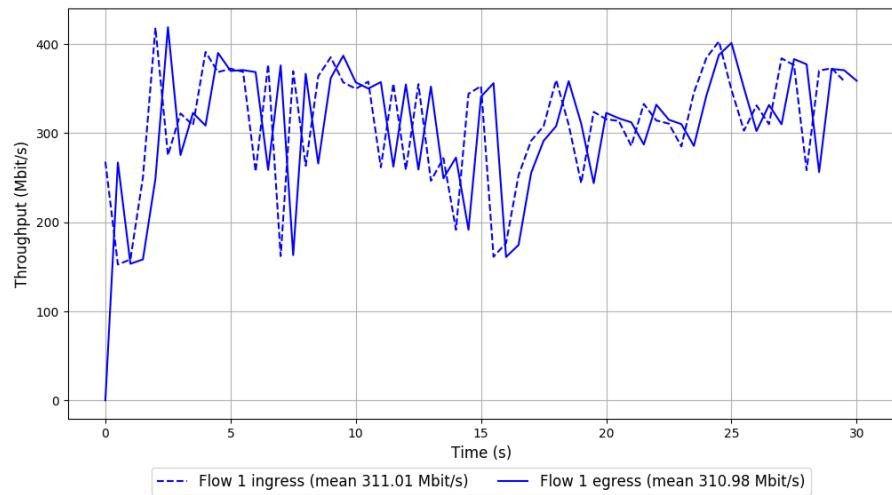


Run 3: Statistics of Verus

```
Start at: 2019-01-19 06:43:11
End at: 2019-01-19 06:43:41
Local clock offset: 3.537 ms
Remote clock offset: -3.649 ms

# Below is generated by plot.py at 2019-01-19 08:50:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.98 Mbit/s
95th percentile per-packet one-way delay: 2.479 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 310.98 Mbit/s
95th percentile per-packet one-way delay: 2.479 ms
Loss rate: 0.01%
```

Run 3: Report of Verus — Data Link

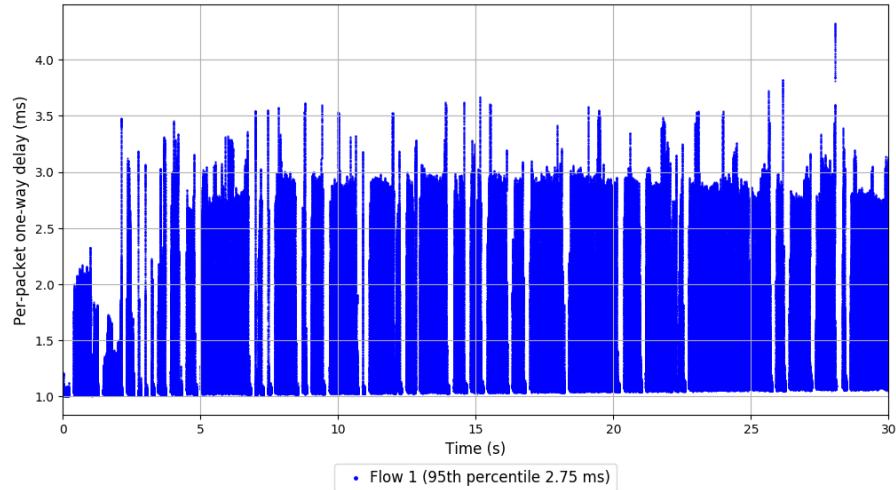
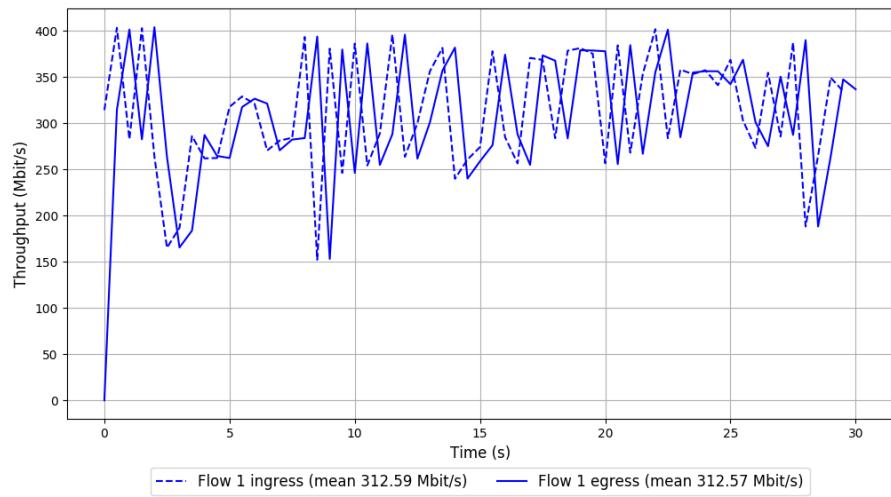


Run 4: Statistics of Verus

```
Start at: 2019-01-19 07:12:55
End at: 2019-01-19 07:13:25
Local clock offset: 4.886 ms
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2019-01-19 08:51:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.57 Mbit/s
95th percentile per-packet one-way delay: 2.755 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 312.57 Mbit/s
95th percentile per-packet one-way delay: 2.755 ms
Loss rate: 0.01%
```

Run 4: Report of Verus — Data Link

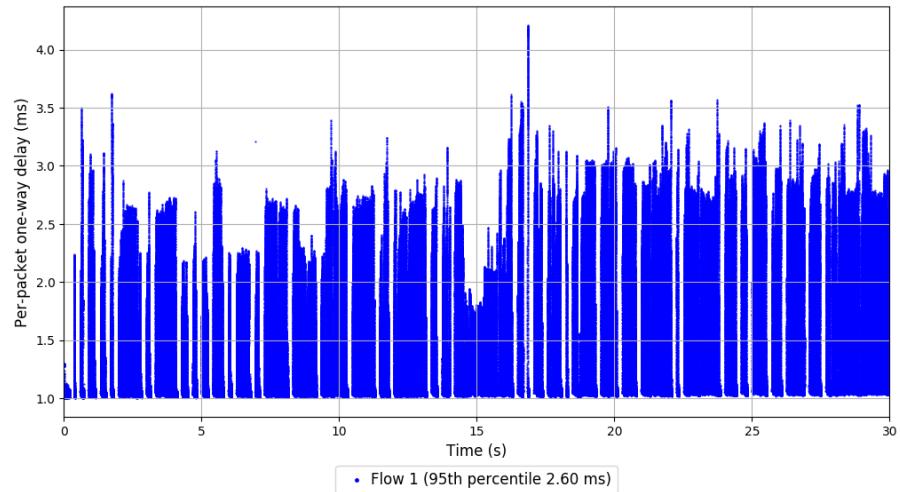
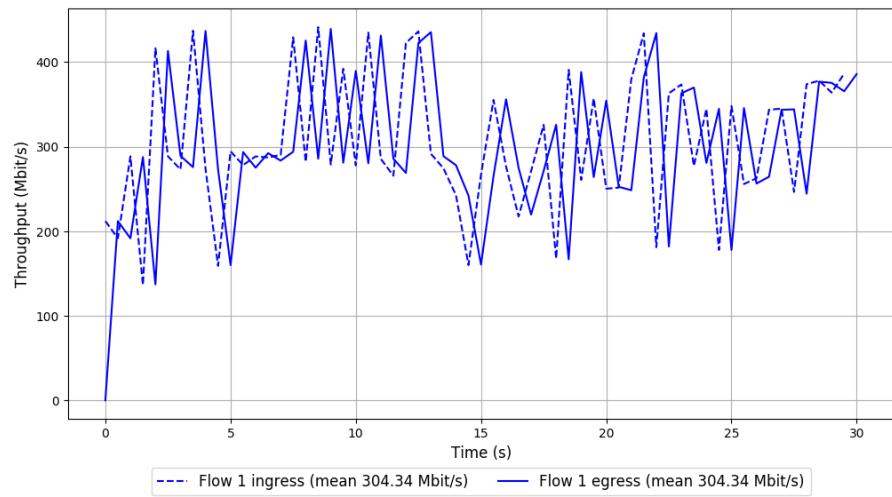


Run 5: Statistics of Verus

```
Start at: 2019-01-19 07:42:42
End at: 2019-01-19 07:43:12
Local clock offset: -1.004 ms
Remote clock offset: 0.5 ms

# Below is generated by plot.py at 2019-01-19 08:51:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.34 Mbit/s
95th percentile per-packet one-way delay: 2.597 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 304.34 Mbit/s
95th percentile per-packet one-way delay: 2.597 ms
Loss rate: 0.01%
```

Run 5: Report of Verus — Data Link

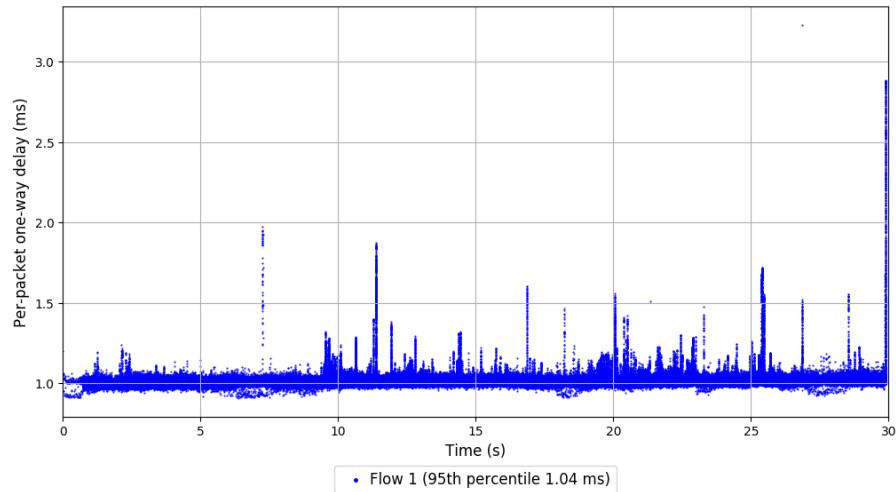
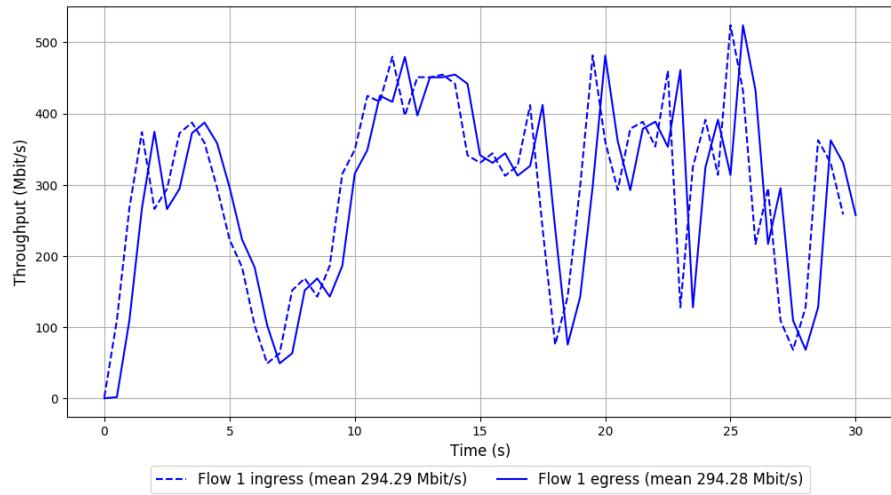


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-19 05:41:06
End at: 2019-01-19 05:41:36
Local clock offset: -0.298 ms
Remote clock offset: 3.335 ms

# Below is generated by plot.py at 2019-01-19 08:52:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 294.28 Mbit/s
95th percentile per-packet one-way delay: 1.040 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 294.28 Mbit/s
95th percentile per-packet one-way delay: 1.040 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Vivace — Data Link

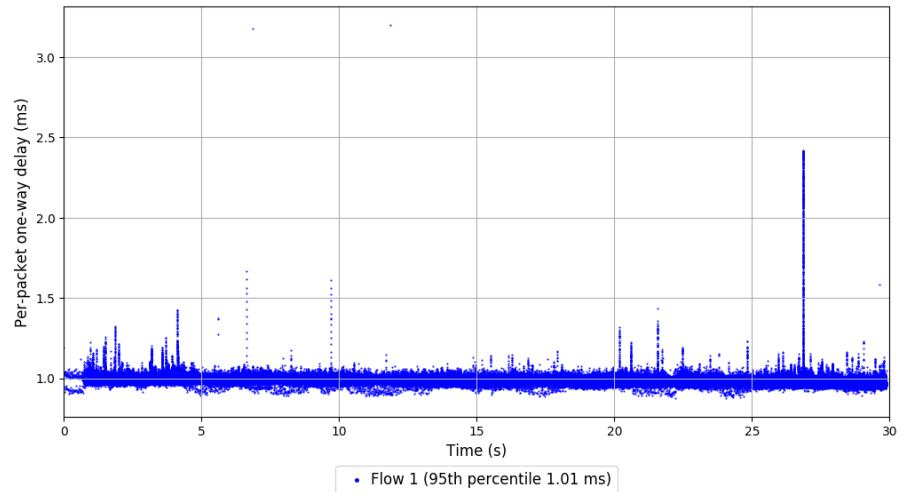
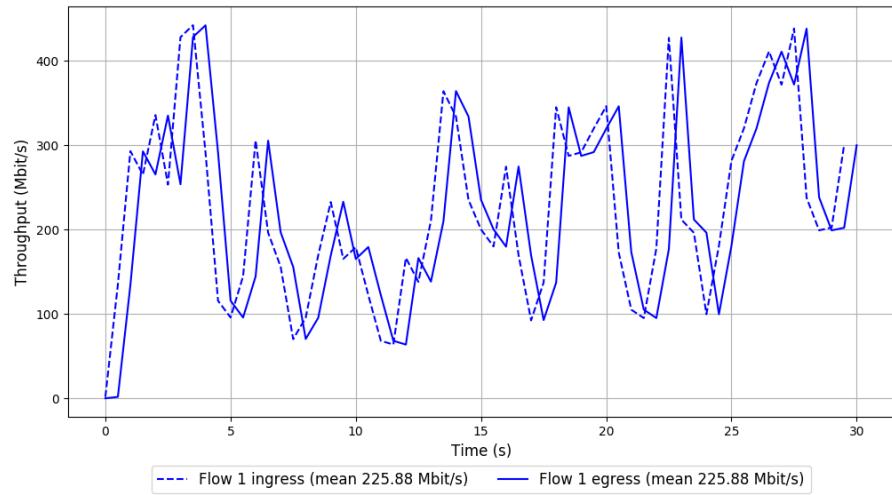


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-19 06:10:50
End at: 2019-01-19 06:11:20
Local clock offset: -0.146 ms
Remote clock offset: -0.181 ms

# Below is generated by plot.py at 2019-01-19 08:52:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.88 Mbit/s
95th percentile per-packet one-way delay: 1.014 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 225.88 Mbit/s
95th percentile per-packet one-way delay: 1.014 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Vivace — Data Link

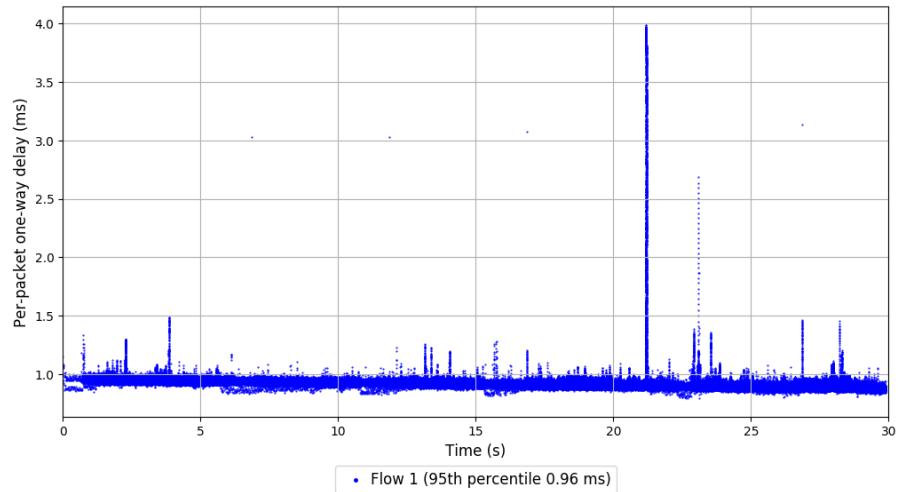
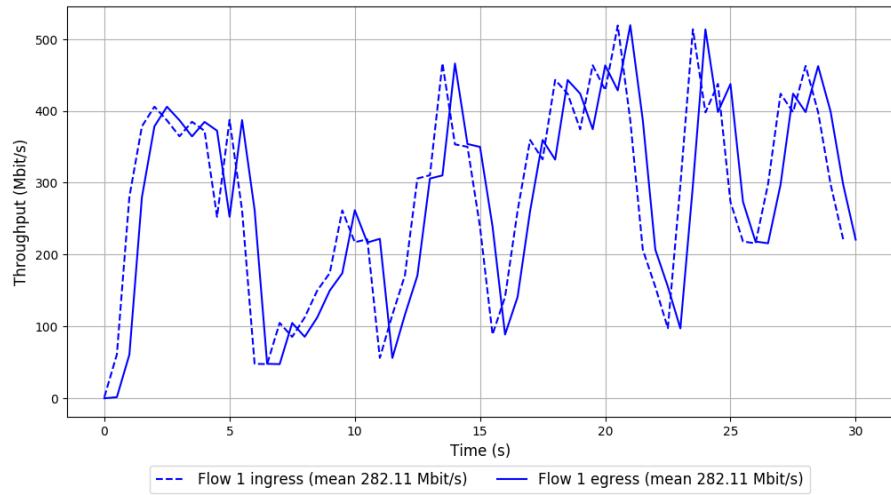


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-19 06:40:26
End at: 2019-01-19 06:40:56
Local clock offset: 3.366 ms
Remote clock offset: -3.432 ms

# Below is generated by plot.py at 2019-01-19 08:52:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 282.11 Mbit/s
95th percentile per-packet one-way delay: 0.956 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 282.11 Mbit/s
95th percentile per-packet one-way delay: 0.956 ms
Loss rate: 0.01%
```

Run 3: Report of PCC-Vivace — Data Link

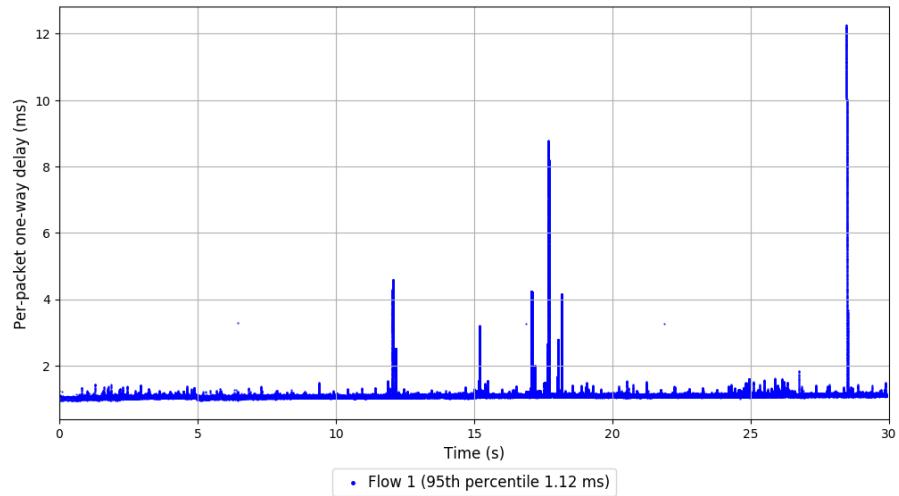
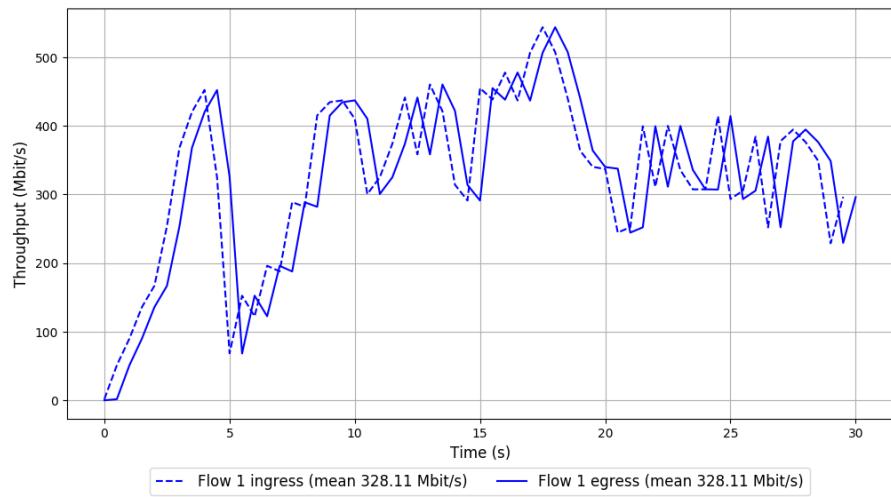


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-19 07:10:07
End at: 2019-01-19 07:10:37
Local clock offset: 4.771 ms
Remote clock offset: -0.649 ms

# Below is generated by plot.py at 2019-01-19 08:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.11 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 328.11 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

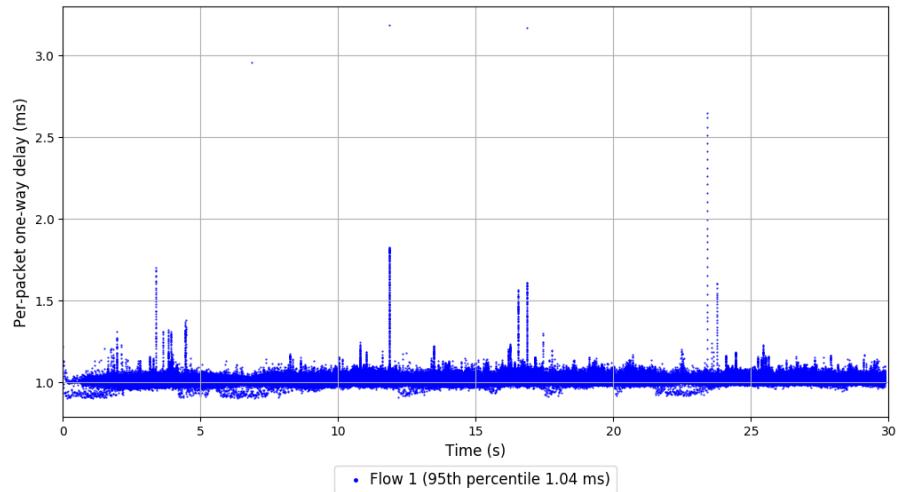
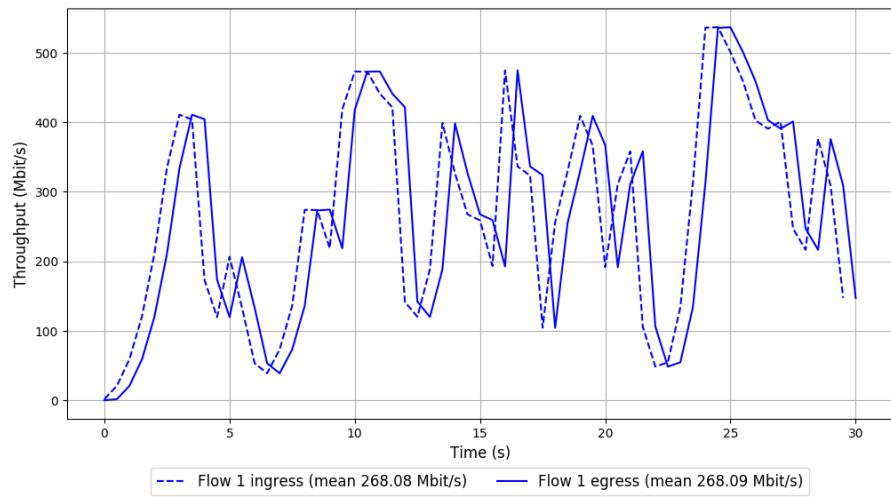


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-19 07:39:56
End at: 2019-01-19 07:40:26
Local clock offset: -0.711 ms
Remote clock offset: 0.705 ms

# Below is generated by plot.py at 2019-01-19 08:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 268.09 Mbit/s
95th percentile per-packet one-way delay: 1.038 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 268.09 Mbit/s
95th percentile per-packet one-way delay: 1.038 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

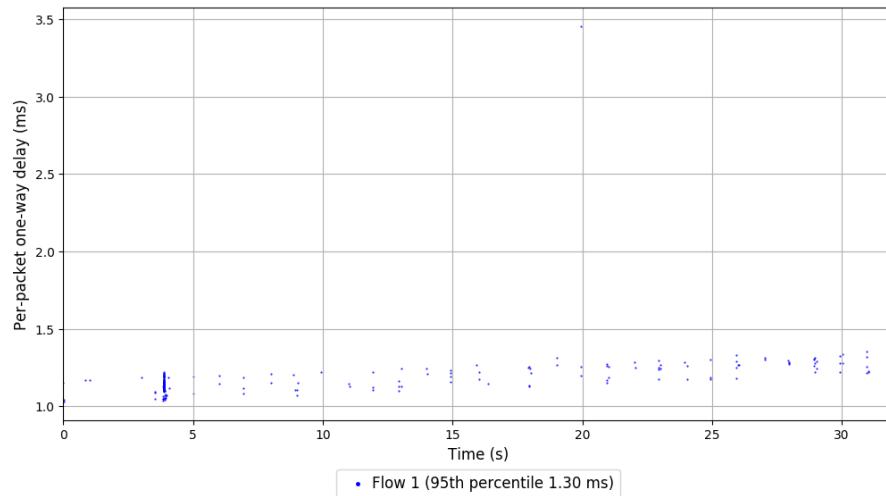
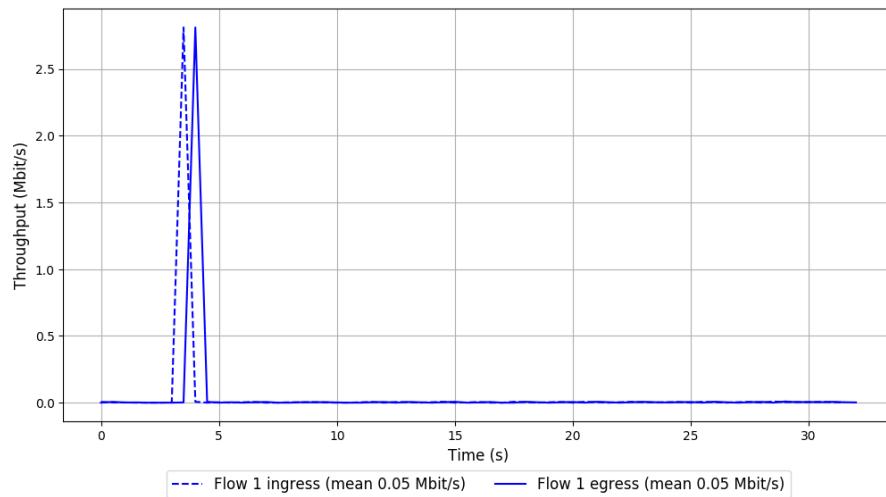


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2019-01-19 05:18:49
End at: 2019-01-19 05:19:19
Local clock offset: -0.431 ms
Remote clock offset: -0.512 ms

# Below is generated by plot.py at 2019-01-19 08:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.302 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

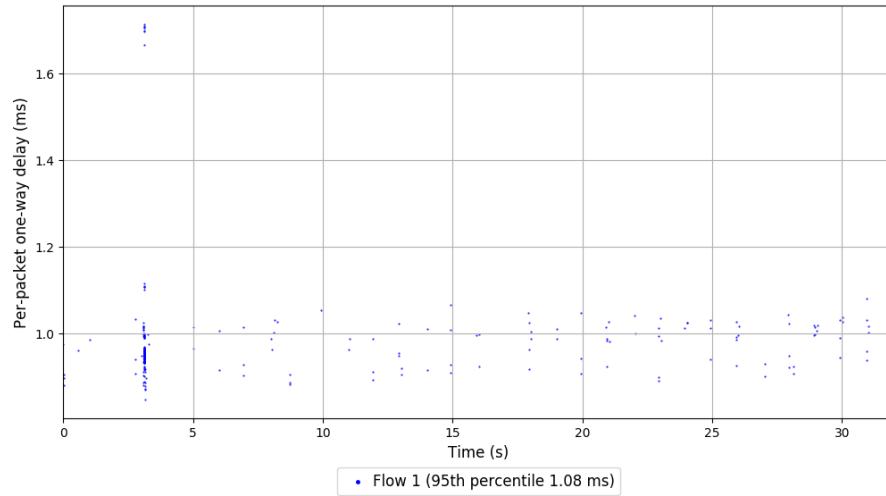
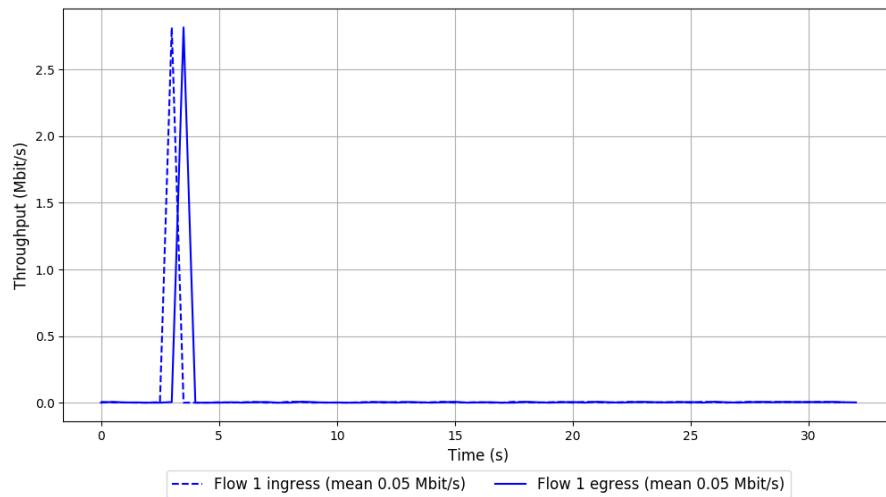


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-19 05:48:32
End at: 2019-01-19 05:49:02
Local clock offset: -0.325 ms
Remote clock offset: 3.886 ms

# Below is generated by plot.py at 2019-01-19 08:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.081 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.081 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

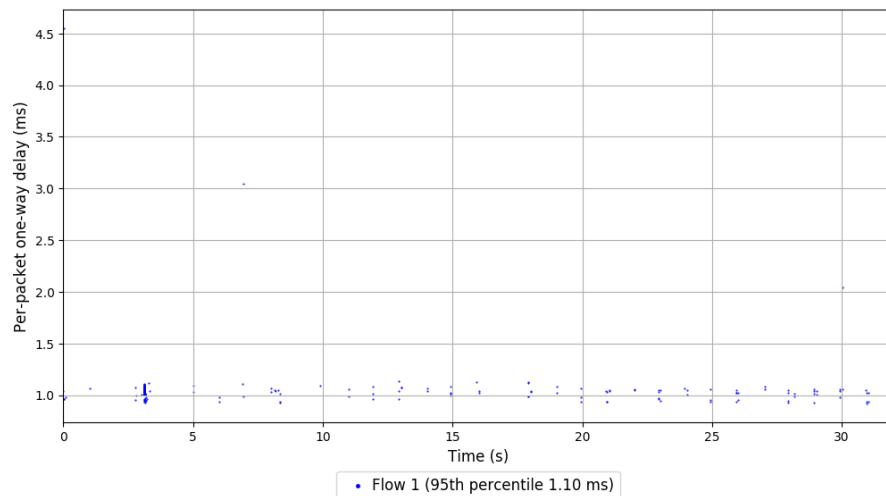
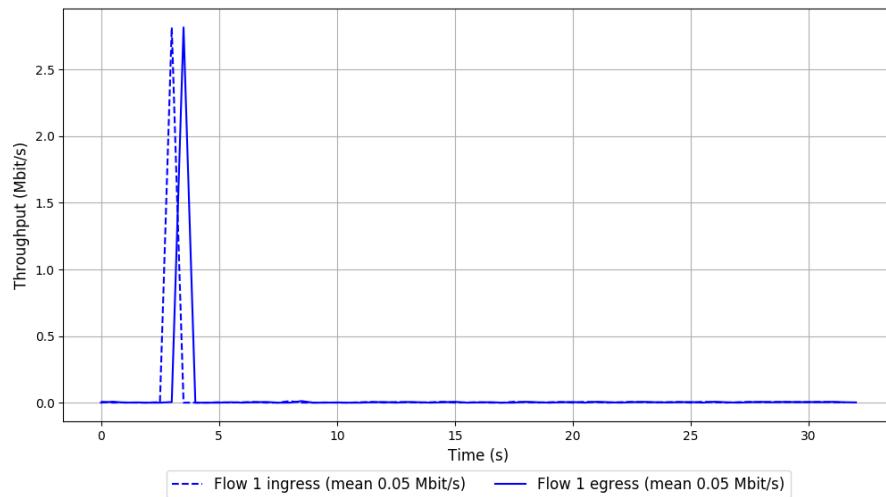


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-19 06:18:12
End at: 2019-01-19 06:18:42
Local clock offset: -0.165 ms
Remote clock offset: -0.482 ms

# Below is generated by plot.py at 2019-01-19 08:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

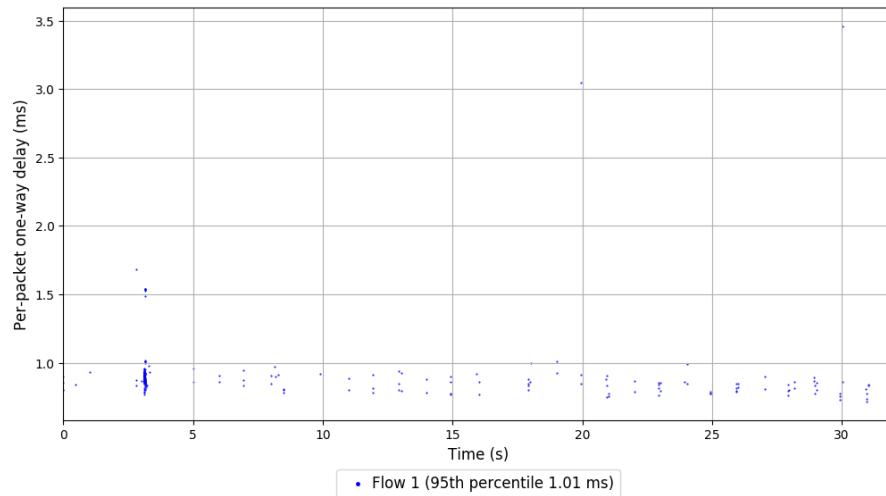
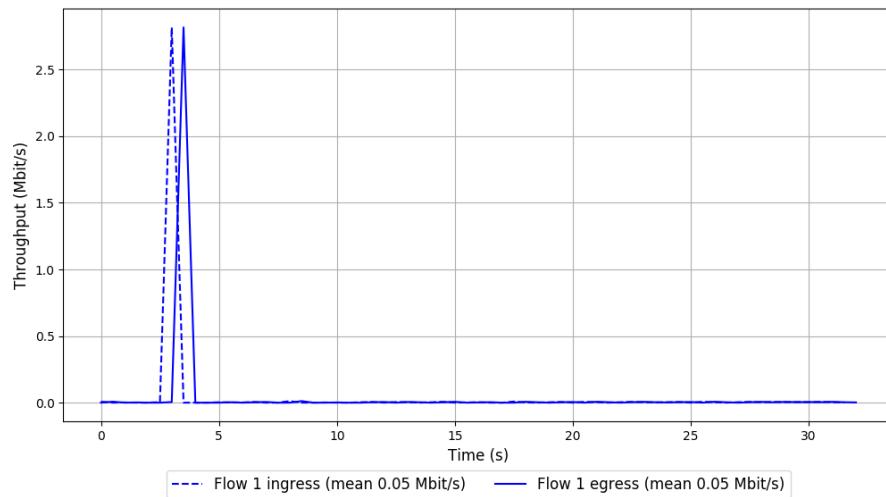


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-19 06:47:52
End at: 2019-01-19 06:48:22
Local clock offset: 3.814 ms
Remote clock offset: -3.89 ms

# Below is generated by plot.py at 2019-01-19 08:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.009 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.009 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-19 07:17:36
End at: 2019-01-19 07:18:06
Local clock offset: 5.063 ms
Remote clock offset: 0.478 ms

# Below is generated by plot.py at 2019-01-19 08:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.170 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.170 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

