

Pantheon Report

Generated at 2019-01-22 00:32:00 (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:

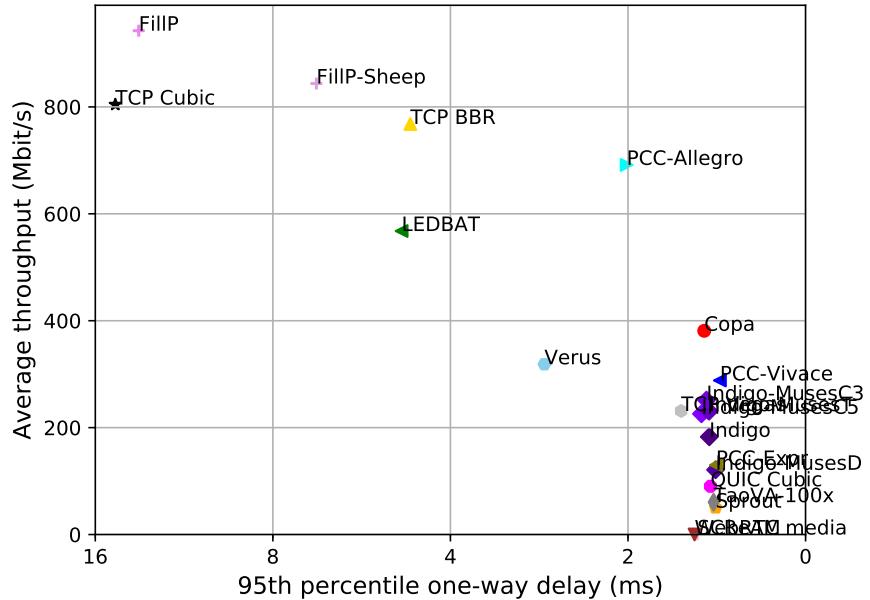
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

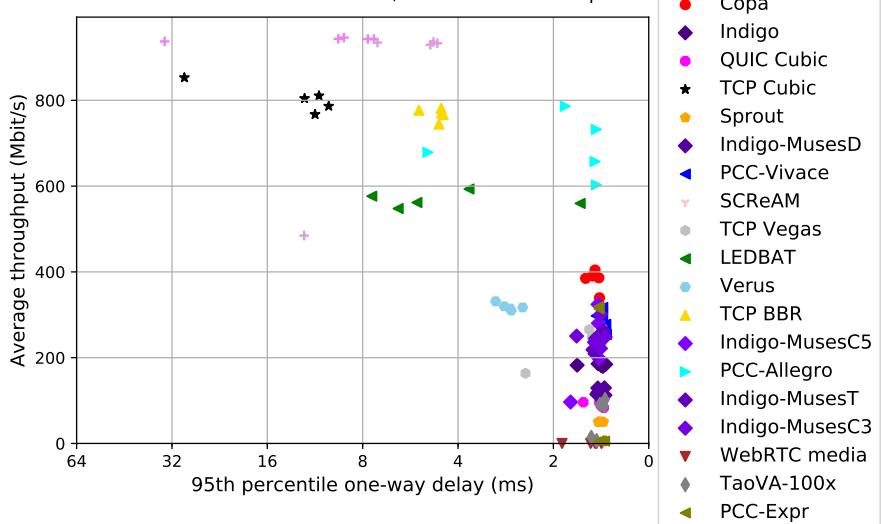
```
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d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

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from 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



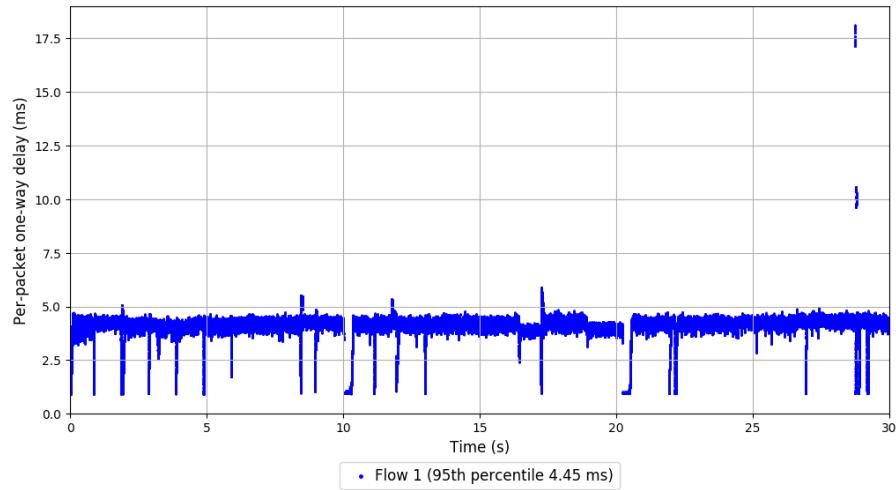
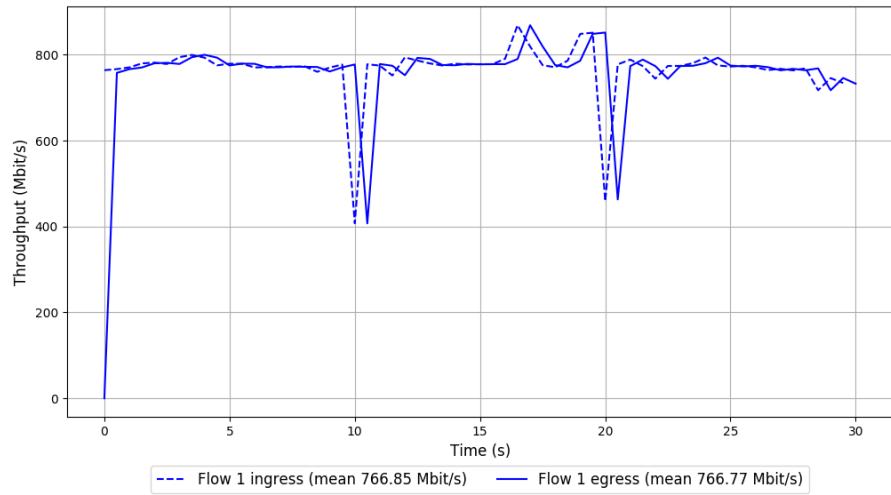
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	768.07	4.68	0.02
Copa	5	381.13	1.14	0.01
TCP Cubic	5	804.33	14.80	0.03
FillP	5	942.55	13.51	0.02
FillP-Sheep	5	843.73	6.75	0.09
Indigo	5	182.78	1.08	0.01
Indigo-MusesC3	5	251.49	1.12	0.01
Indigo-MusesC5	5	225.87	1.17	0.01
Indigo-MusesD	5	121.08	1.01	0.01
Indigo-MusesT	5	230.78	1.09	0.01
LEDBAT	5	567.78	4.84	0.01
PCC-Allegro	5	691.46	2.01	0.01
PCC-Expr	5	130.10	1.01	0.01
QUIC Cubic	5	90.30	1.07	0.01
SCReAM	5	0.22	1.22	0.05
Sprout	5	50.25	1.01	0.00
TaoVA-100x	5	60.60	1.04	0.01
TCP Vegas	5	231.17	1.40	0.00
Verus	5	318.57	2.77	0.01
PCC-Vivace	5	288.26	0.97	0.00
WebRTC media	5	0.05	1.25	0.01

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-21 21:26:48
End at: 2019-01-21 21:27:18
Local clock offset: 2.897 ms
Remote clock offset: 4.144 ms

# Below is generated by plot.py at 2019-01-21 23:45:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 766.77 Mbit/s
95th percentile per-packet one-way delay: 4.454 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 766.77 Mbit/s
95th percentile per-packet one-way delay: 4.454 ms
Loss rate: 0.02%
```

Run 1: Report of TCP BBR — Data Link

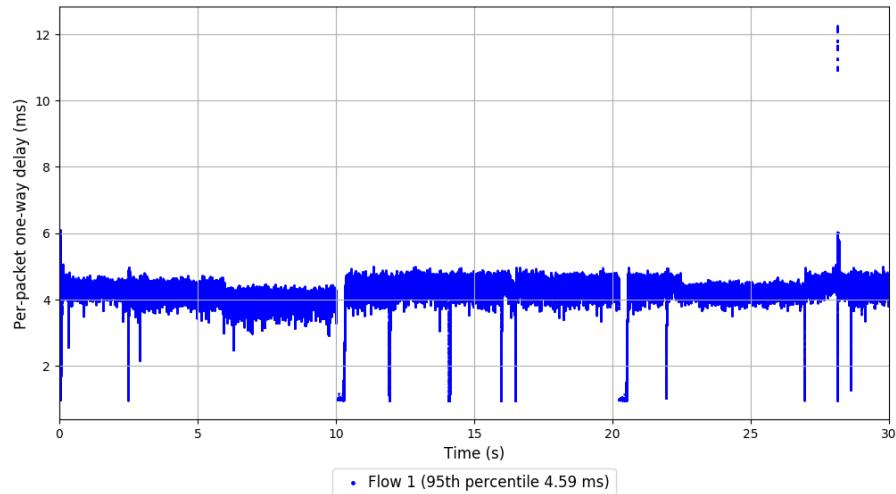
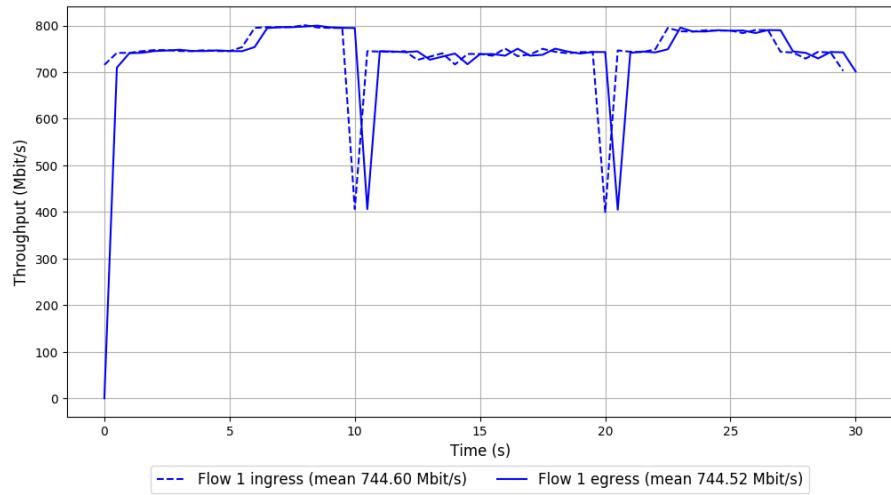


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-21 21:56:20
End at: 2019-01-21 21:56:50
Local clock offset: 2.847 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-01-21 23:45:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 744.52 Mbit/s
95th percentile per-packet one-way delay: 4.592 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 744.52 Mbit/s
95th percentile per-packet one-way delay: 4.592 ms
Loss rate: 0.02%
```

Run 2: Report of TCP BBR — Data Link

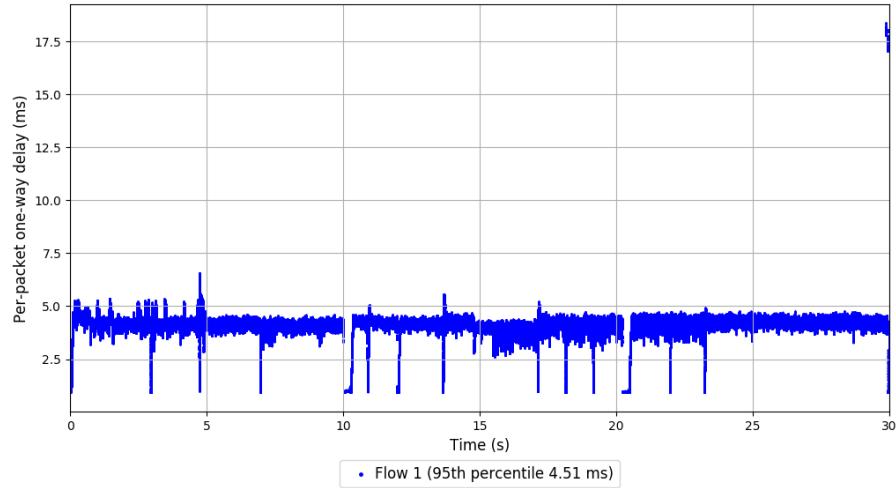
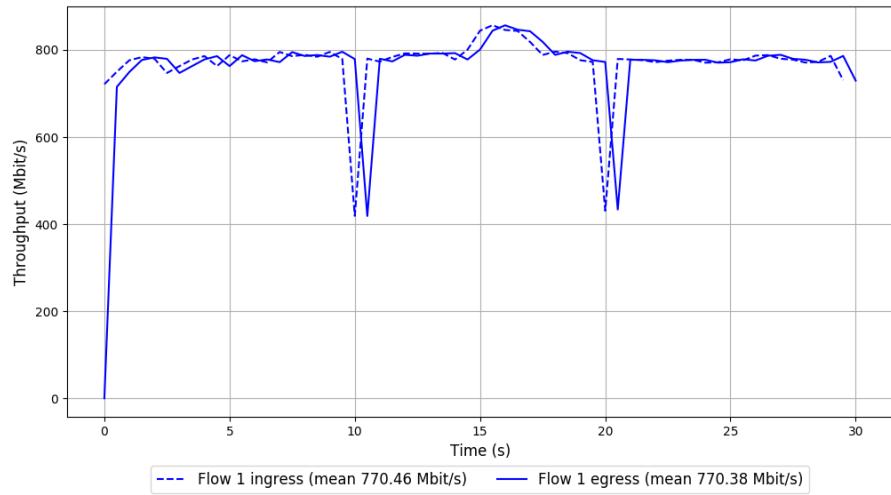


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-21 22:26:05
End at: 2019-01-21 22:26:35
Local clock offset: 3.109 ms
Remote clock offset: -0.457 ms

# Below is generated by plot.py at 2019-01-21 23:45:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 770.38 Mbit/s
95th percentile per-packet one-way delay: 4.508 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 770.38 Mbit/s
95th percentile per-packet one-way delay: 4.508 ms
Loss rate: 0.02%
```

Run 3: Report of TCP BBR — Data Link

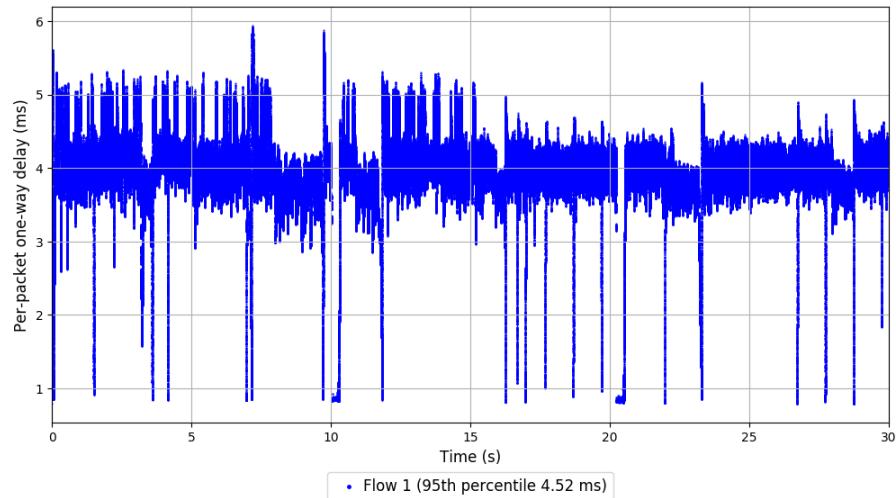
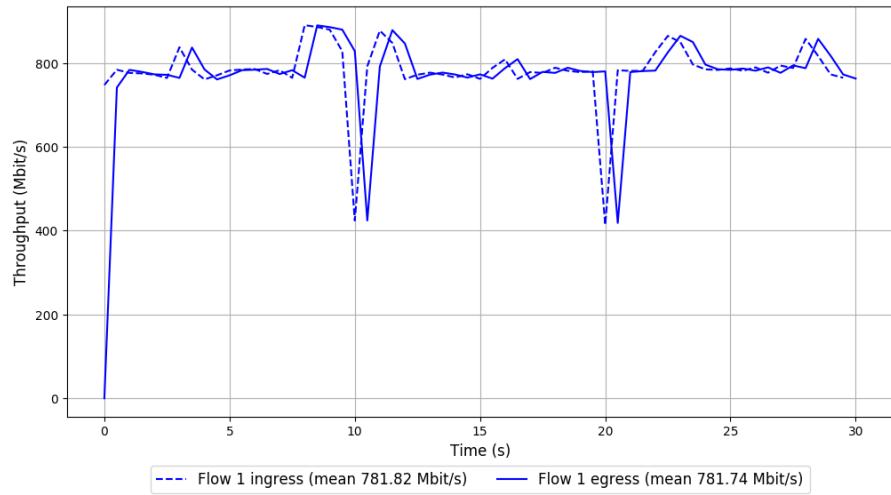


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-21 22:55:27
End at: 2019-01-21 22:55:57
Local clock offset: 3.391 ms
Remote clock offset: -3.358 ms

# Below is generated by plot.py at 2019-01-21 23:45:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 781.74 Mbit/s
95th percentile per-packet one-way delay: 4.521 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 781.74 Mbit/s
95th percentile per-packet one-way delay: 4.521 ms
Loss rate: 0.02%
```

Run 4: Report of TCP BBR — Data Link

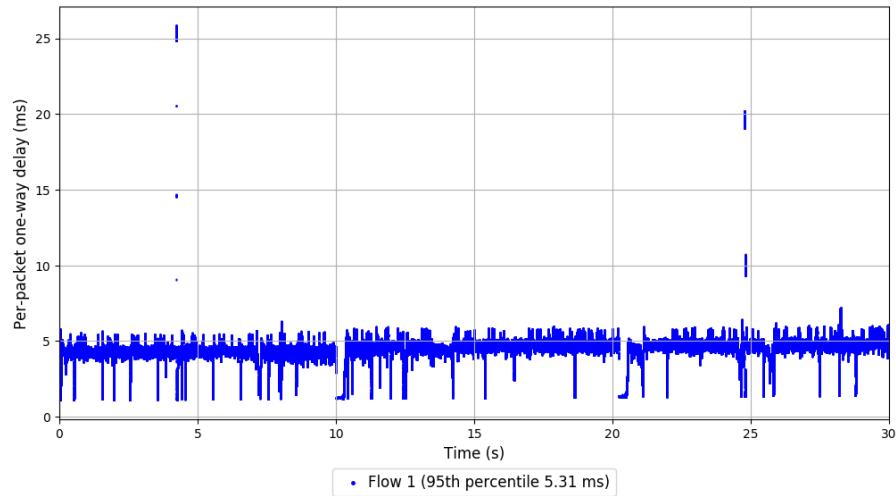
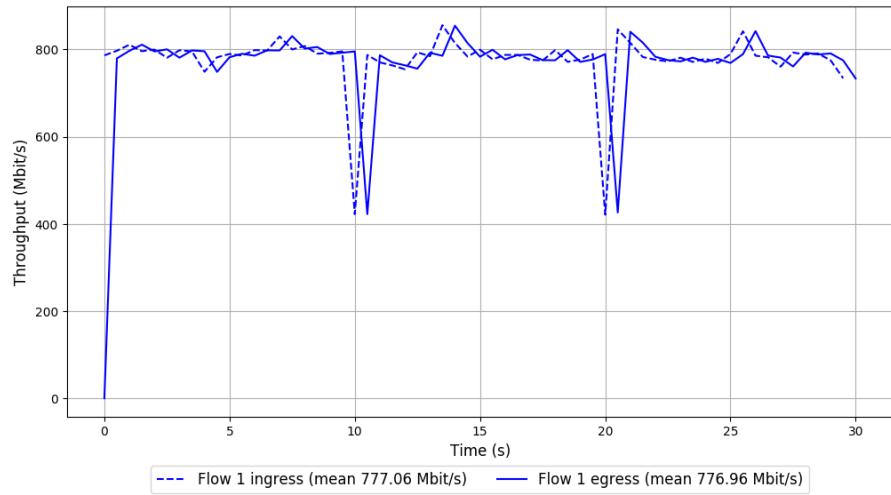


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-21 23:24:34
End at: 2019-01-21 23:25:04
Local clock offset: 1.367 ms
Remote clock offset: 0.432 ms

# Below is generated by plot.py at 2019-01-21 23:45:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 776.96 Mbit/s
95th percentile per-packet one-way delay: 5.314 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 776.96 Mbit/s
95th percentile per-packet one-way delay: 5.314 ms
Loss rate: 0.02%
```

Run 5: Report of TCP BBR — Data Link

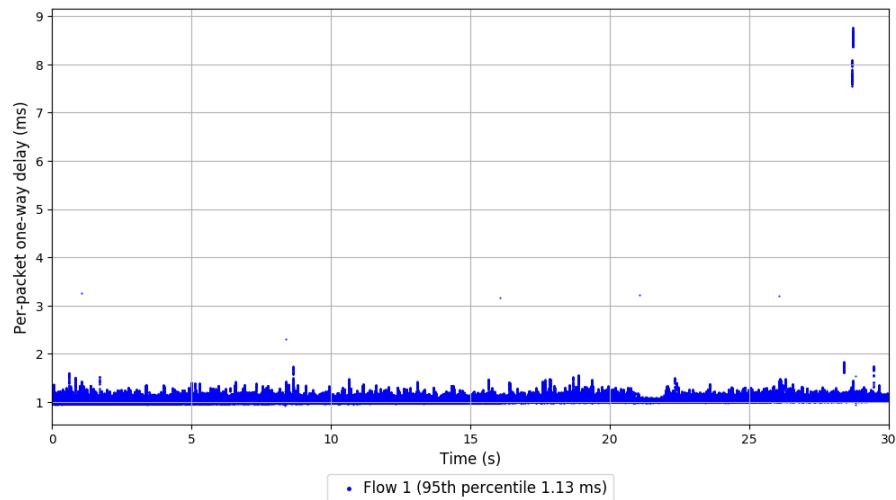
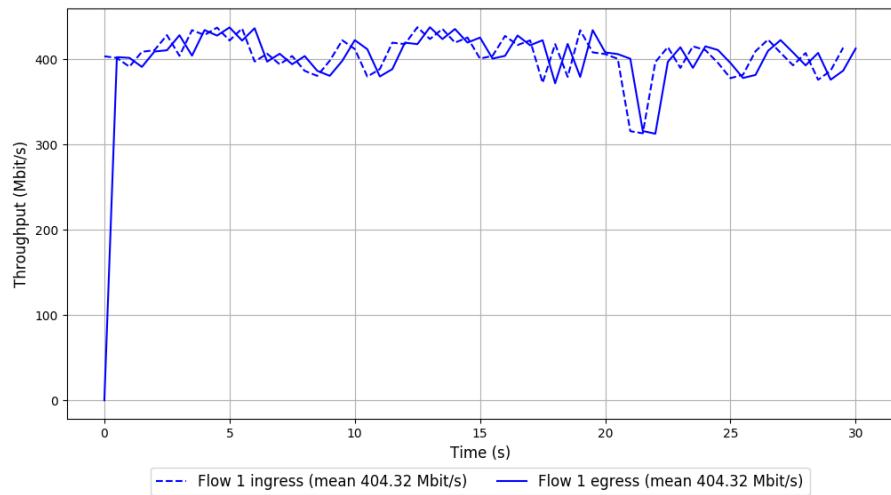


Run 1: Statistics of Copa

```
Start at: 2019-01-21 21:16:32
End at: 2019-01-21 21:17:02
Local clock offset: 2.919 ms
Remote clock offset: 3.142 ms

# Below is generated by plot.py at 2019-01-21 23:45:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 404.32 Mbit/s
95th percentile per-packet one-way delay: 1.127 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 404.32 Mbit/s
95th percentile per-packet one-way delay: 1.127 ms
Loss rate: 0.01%
```

Run 1: Report of Copa — Data Link

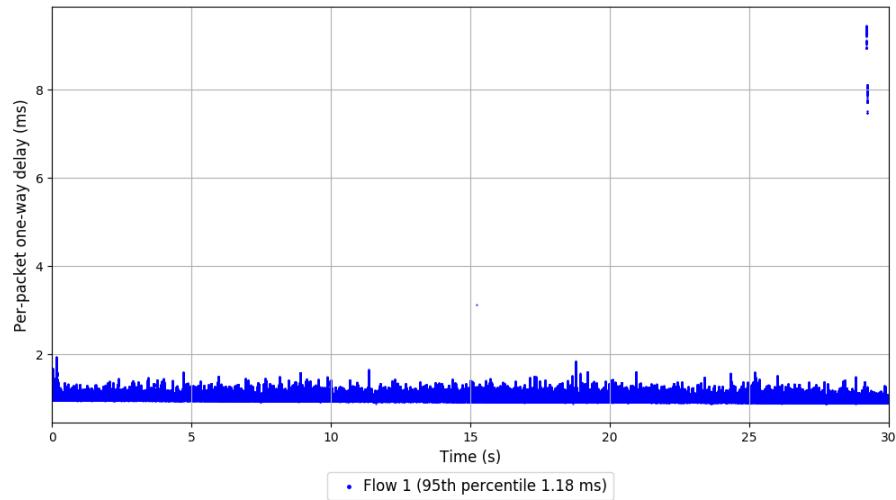
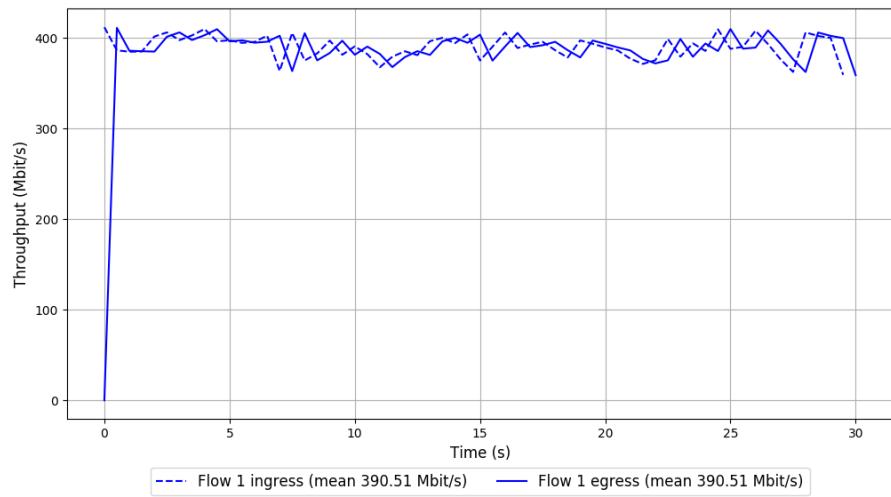


Run 2: Statistics of Copa

```
Start at: 2019-01-21 21:46:06
End at: 2019-01-21 21:46:36
Local clock offset: 2.84 ms
Remote clock offset: 0.79 ms

# Below is generated by plot.py at 2019-01-21 23:45:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.51 Mbit/s
95th percentile per-packet one-way delay: 1.175 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 390.51 Mbit/s
95th percentile per-packet one-way delay: 1.175 ms
Loss rate: 0.01%
```

Run 2: Report of Copa — Data Link

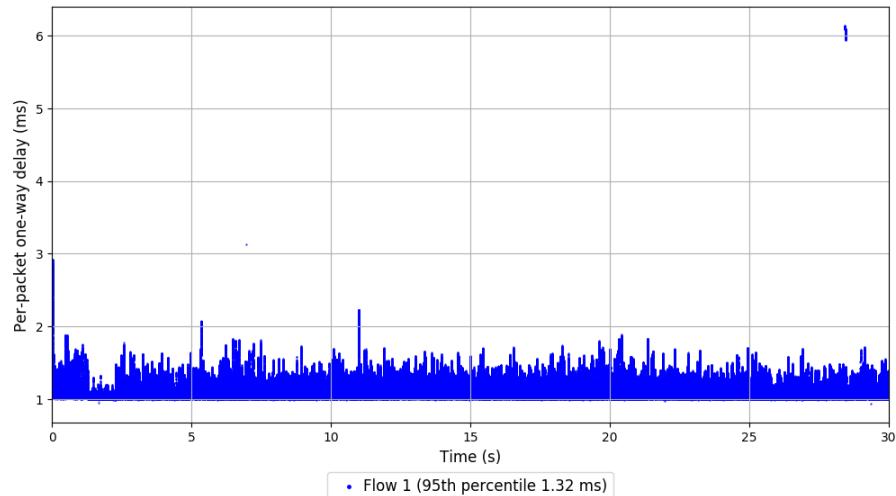
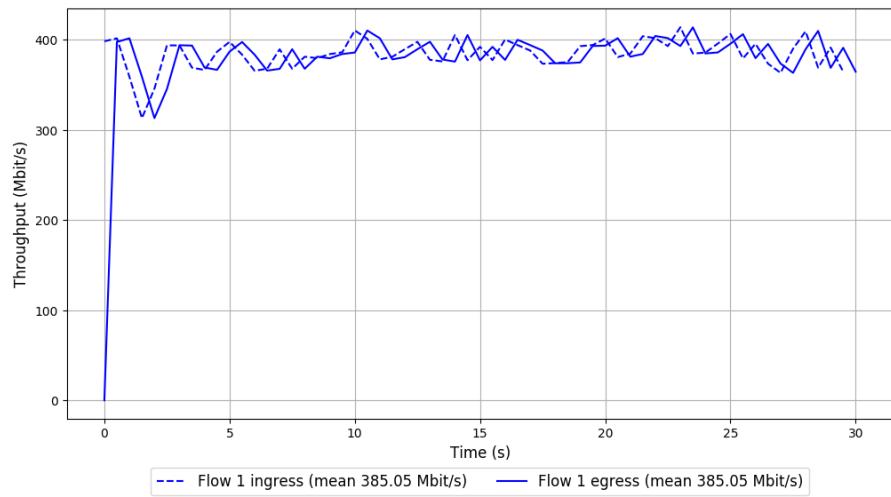


Run 3: Statistics of Copa

```
Start at: 2019-01-21 22:15:52
End at: 2019-01-21 22:16:22
Local clock offset: 2.856 ms
Remote clock offset: -0.432 ms

# Below is generated by plot.py at 2019-01-21 23:45:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 385.05 Mbit/s
95th percentile per-packet one-way delay: 1.324 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 385.05 Mbit/s
95th percentile per-packet one-way delay: 1.324 ms
Loss rate: 0.01%
```

Run 3: Report of Copa — Data Link

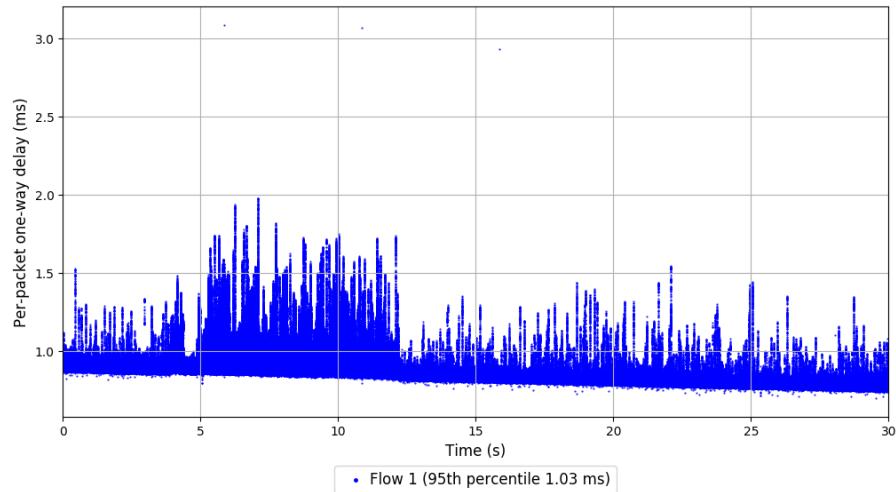
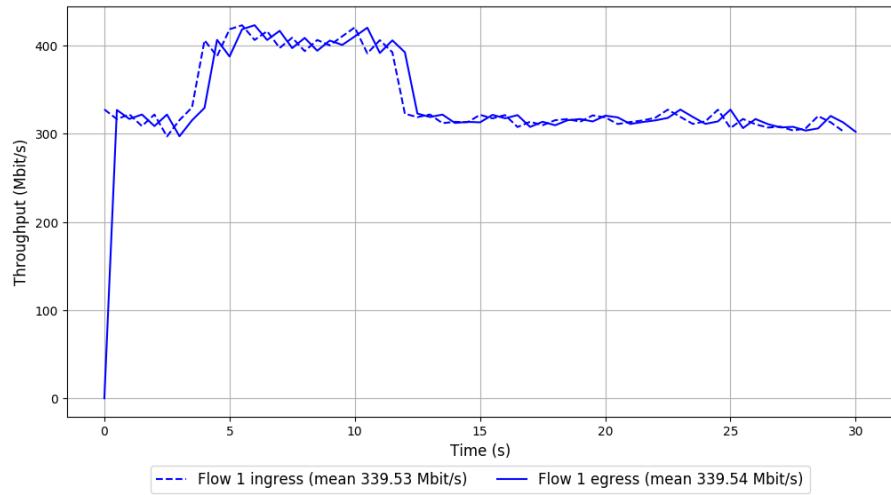


Run 4: Statistics of Copa

```
Start at: 2019-01-21 22:45:19
End at: 2019-01-21 22:45:49
Local clock offset: 3.341 ms
Remote clock offset: -1.642 ms

# Below is generated by plot.py at 2019-01-21 23:52:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.54 Mbit/s
95th percentile per-packet one-way delay: 1.033 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 339.54 Mbit/s
95th percentile per-packet one-way delay: 1.033 ms
Loss rate: 0.01%
```

Run 4: Report of Copa — Data Link

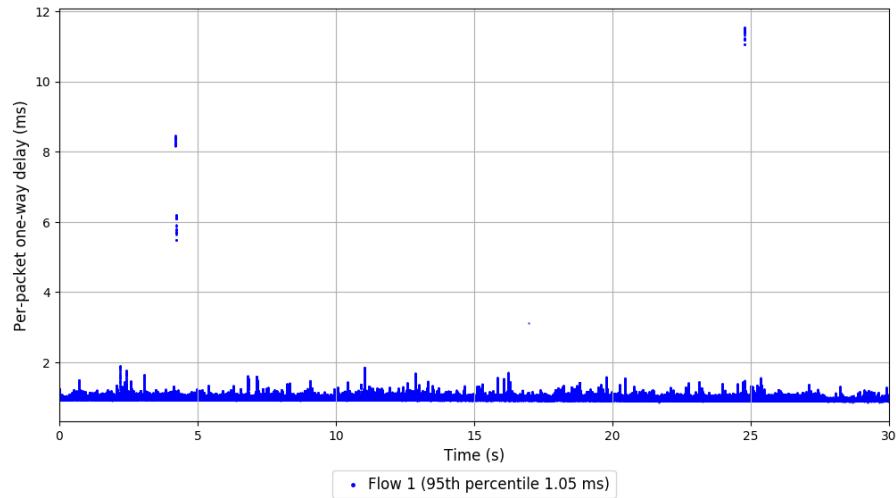
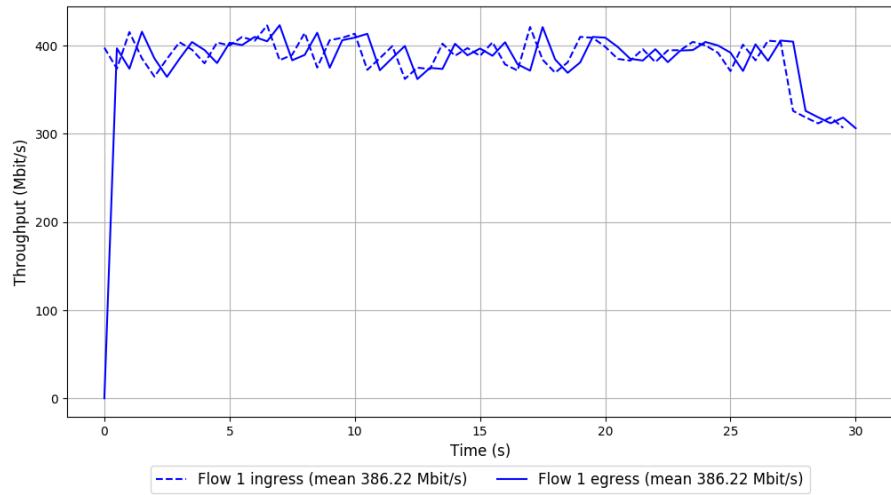


Run 5: Statistics of Copa

```
Start at: 2019-01-21 23:14:25
End at: 2019-01-21 23:14:55
Local clock offset: 3.502 ms
Remote clock offset: -5.151 ms

# Below is generated by plot.py at 2019-01-21 23:52:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 386.22 Mbit/s
95th percentile per-packet one-way delay: 1.047 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 386.22 Mbit/s
95th percentile per-packet one-way delay: 1.047 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link

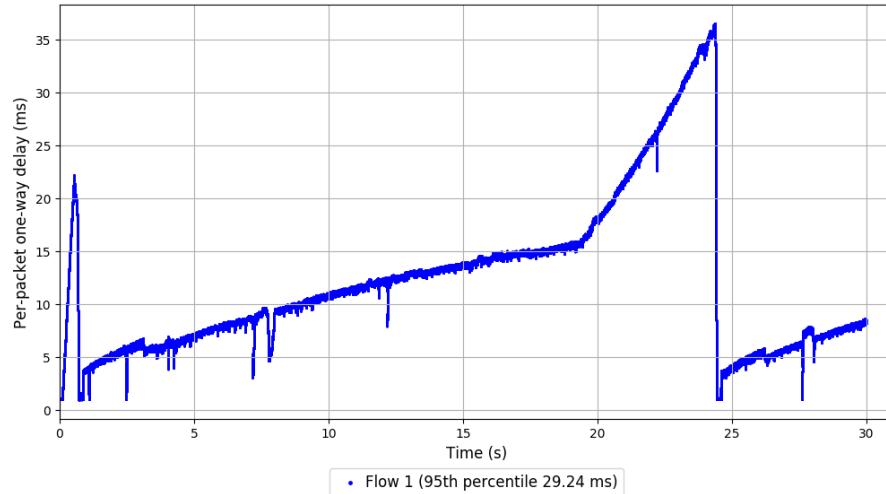
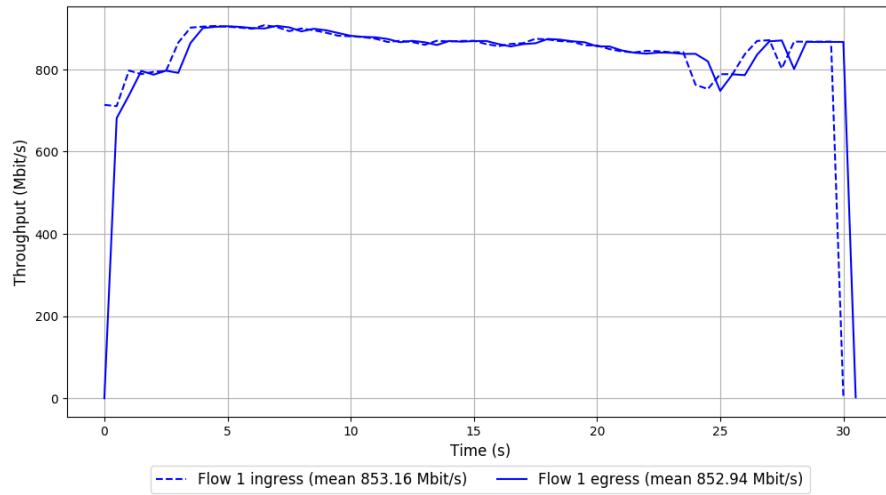


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-21 21:21:08
End at: 2019-01-21 21:21:38
Local clock offset: 2.921 ms
Remote clock offset: 3.654 ms

# Below is generated by plot.py at 2019-01-21 23:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 852.94 Mbit/s
95th percentile per-packet one-way delay: 29.236 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 852.94 Mbit/s
95th percentile per-packet one-way delay: 29.236 ms
Loss rate: 0.03%
```

Run 1: Report of TCP Cubic — Data Link

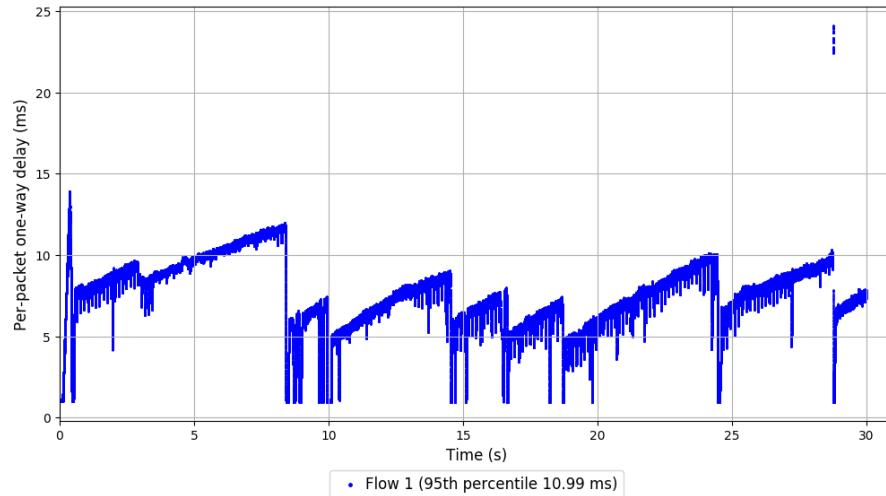
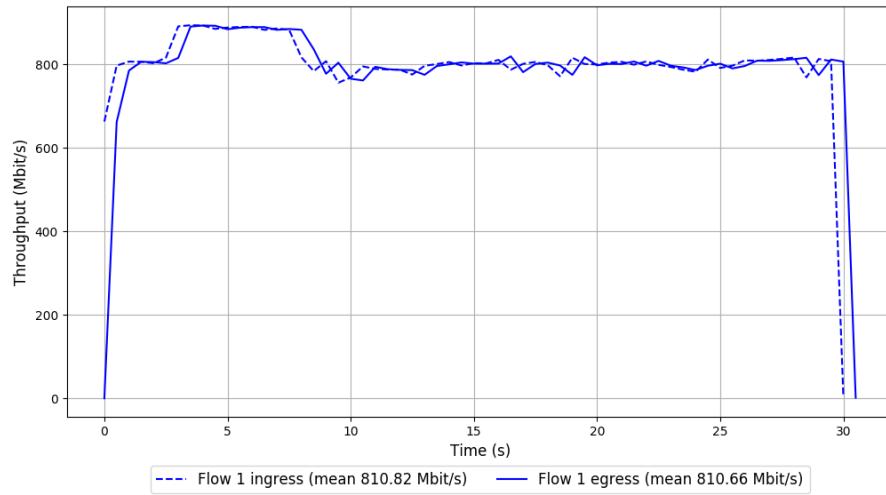


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-21 21:50:40
End at: 2019-01-21 21:51:10
Local clock offset: 2.846 ms
Remote clock offset: 0.304 ms

# Below is generated by plot.py at 2019-01-21 23:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 810.66 Mbit/s
95th percentile per-packet one-way delay: 10.990 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 810.66 Mbit/s
95th percentile per-packet one-way delay: 10.990 ms
Loss rate: 0.03%
```

Run 2: Report of TCP Cubic — Data Link

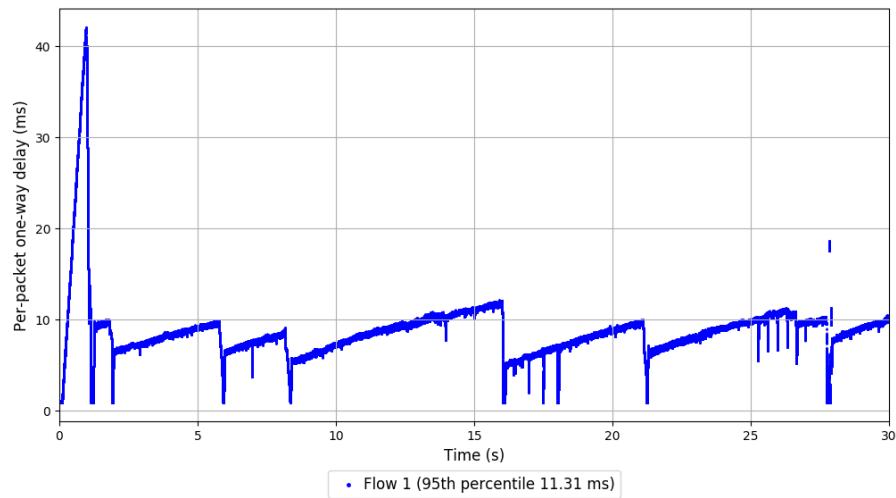
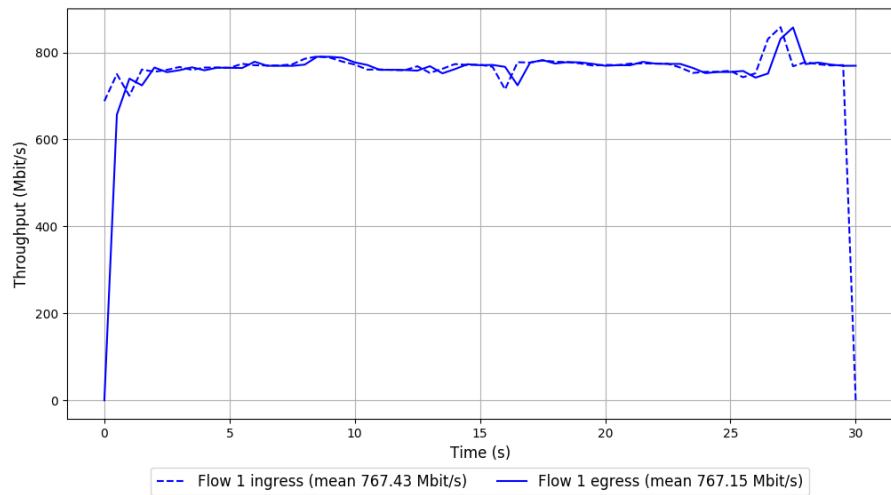


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-21 22:20:28
End at: 2019-01-21 22:20:58
Local clock offset: 2.939 ms
Remote clock offset: -0.42 ms

# Below is generated by plot.py at 2019-01-21 23:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 767.15 Mbit/s
95th percentile per-packet one-way delay: 11.310 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 767.15 Mbit/s
95th percentile per-packet one-way delay: 11.310 ms
Loss rate: 0.04%
```

Run 3: Report of TCP Cubic — Data Link

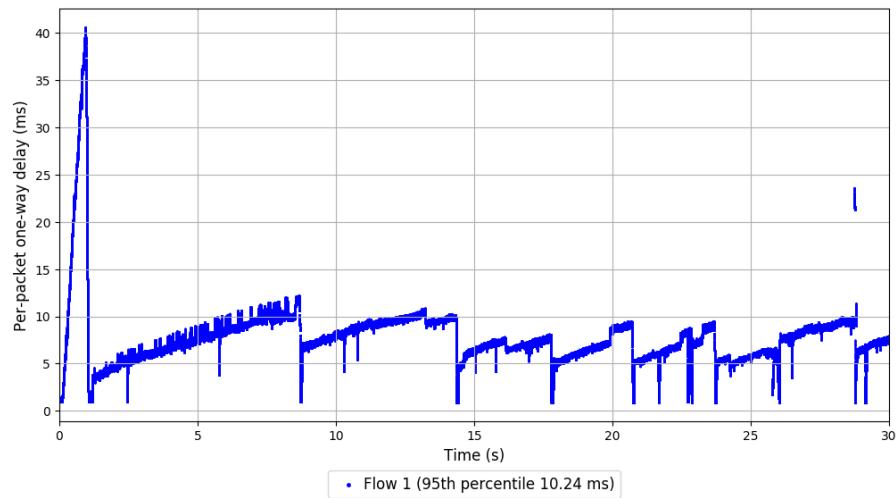
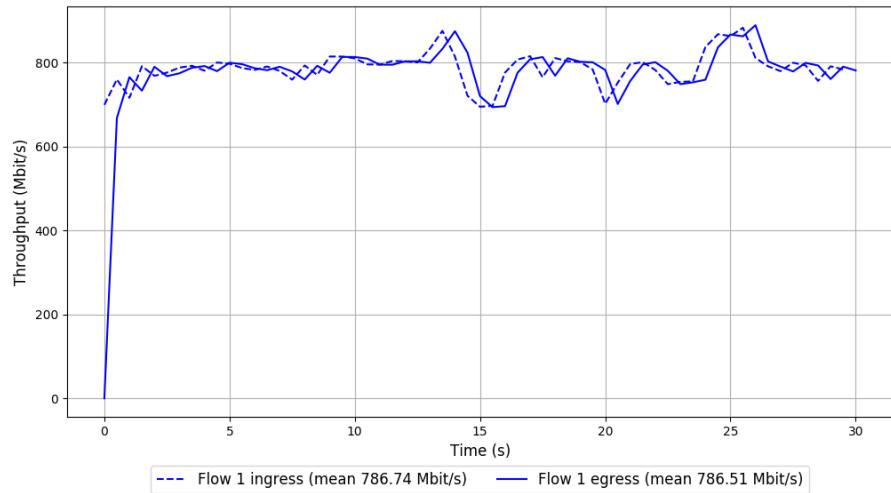


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-21 22:49:51
End at: 2019-01-21 22:50:21
Local clock offset: 3.374 ms
Remote clock offset: -2.648 ms

# Below is generated by plot.py at 2019-01-21 23:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 786.51 Mbit/s
95th percentile per-packet one-way delay: 10.243 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 786.51 Mbit/s
95th percentile per-packet one-way delay: 10.243 ms
Loss rate: 0.04%
```

Run 4: Report of TCP Cubic — Data Link

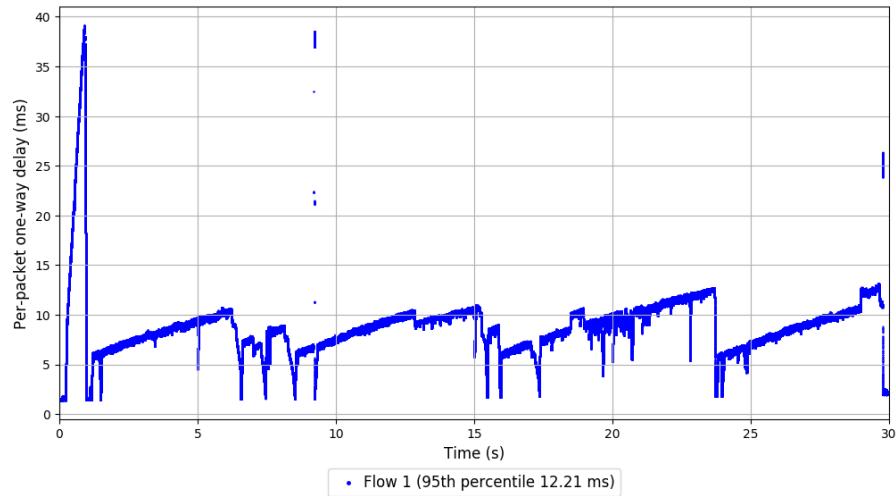
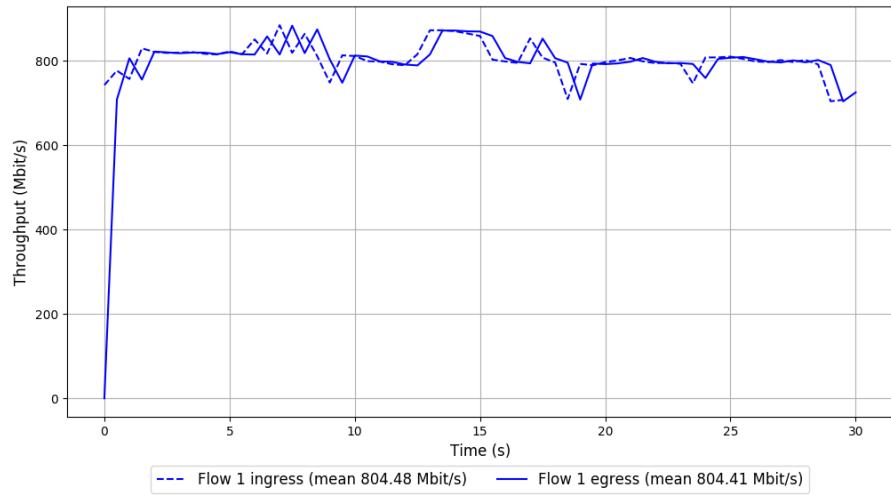


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-21 23:19:00
End at: 2019-01-21 23:19:30
Local clock offset: 3.327 ms
Remote clock offset: -2.71 ms

# Below is generated by plot.py at 2019-01-21 23:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 804.41 Mbit/s
95th percentile per-packet one-way delay: 12.206 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 804.41 Mbit/s
95th percentile per-packet one-way delay: 12.206 ms
Loss rate: 0.01%
```

Run 5: Report of TCP Cubic — Data Link

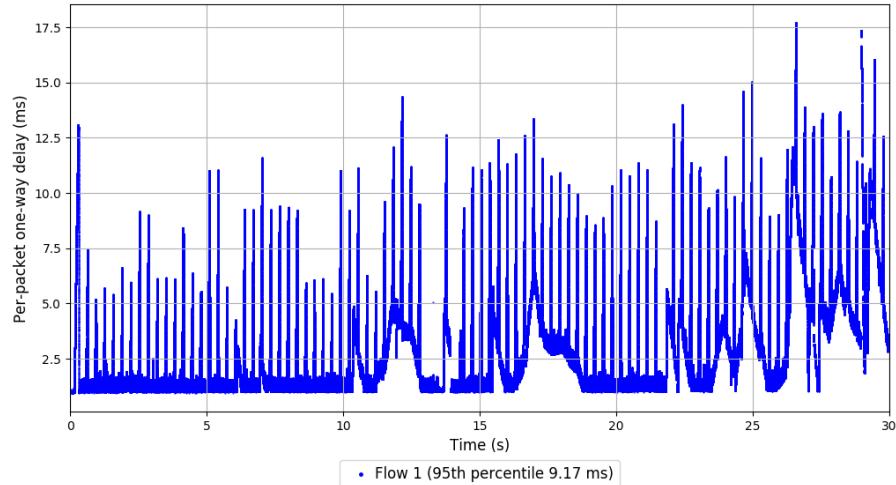
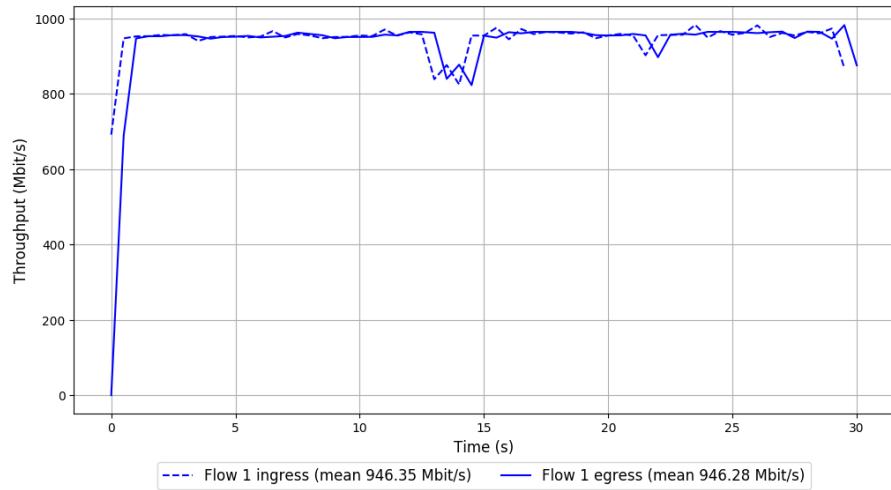


```
Run 1: Statistics of FillP
```

```
Start at: 2019-01-21 21:18:10
End at: 2019-01-21 21:18:40
Local clock offset: 2.935 ms
Remote clock offset: 3.318 ms

# Below is generated by plot.py at 2019-01-21 23:57:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 946.28 Mbit/s
95th percentile per-packet one-way delay: 9.167 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 946.28 Mbit/s
95th percentile per-packet one-way delay: 9.167 ms
Loss rate: 0.01%
```

Run 1: Report of FillP — Data Link

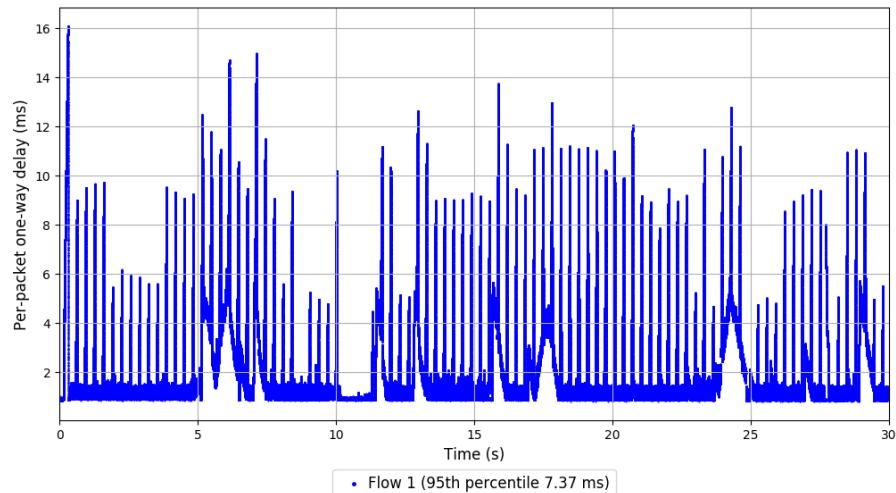
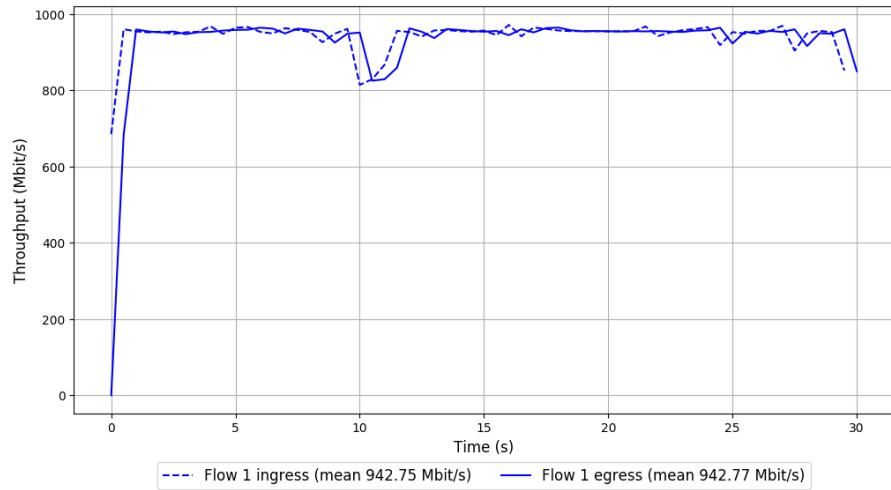


```
Run 2: Statistics of FillP
```

```
Start at: 2019-01-21 21:47:43
End at: 2019-01-21 21:48:13
Local clock offset: 2.85 ms
Remote clock offset: 0.665 ms

# Below is generated by plot.py at 2019-01-22 00:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 942.77 Mbit/s
95th percentile per-packet one-way delay: 7.365 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 942.77 Mbit/s
95th percentile per-packet one-way delay: 7.365 ms
Loss rate: 0.01%
```

Run 2: Report of FillP — Data Link

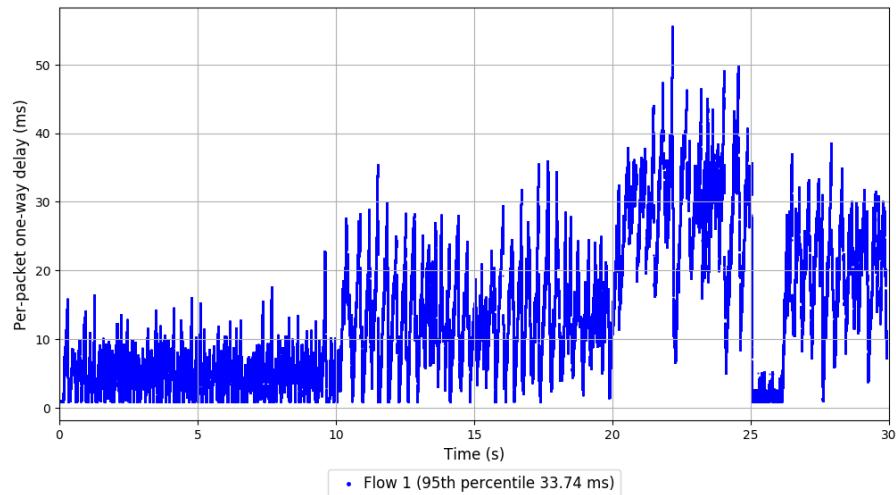
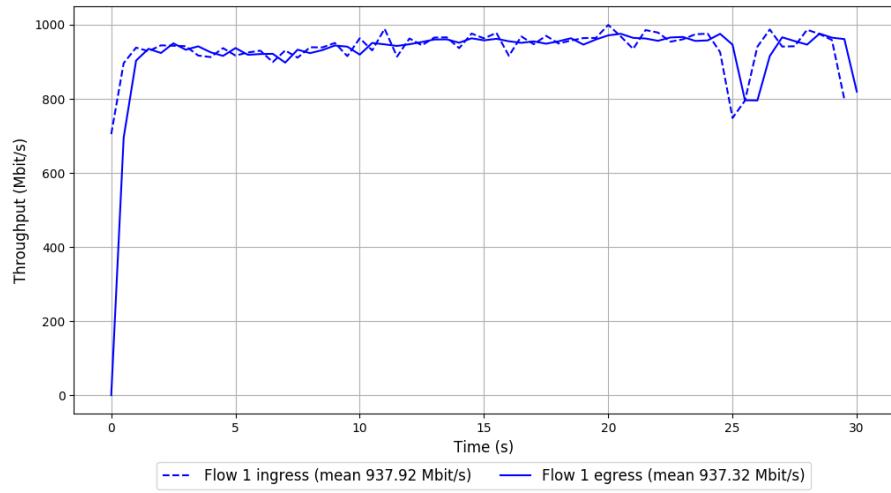


Run 3: Statistics of FillP

```
Start at: 2019-01-21 22:17:28
End at: 2019-01-21 22:17:58
Local clock offset: 2.866 ms
Remote clock offset: -0.358 ms

# Below is generated by plot.py at 2019-01-22 00:04:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 937.32 Mbit/s
95th percentile per-packet one-way delay: 33.740 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 937.32 Mbit/s
95th percentile per-packet one-way delay: 33.740 ms
Loss rate: 0.07%
```

Run 3: Report of FillP — Data Link

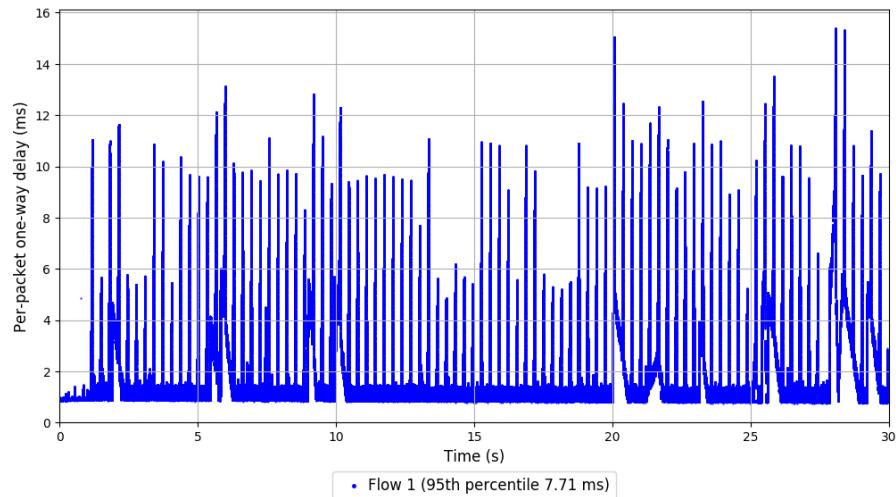
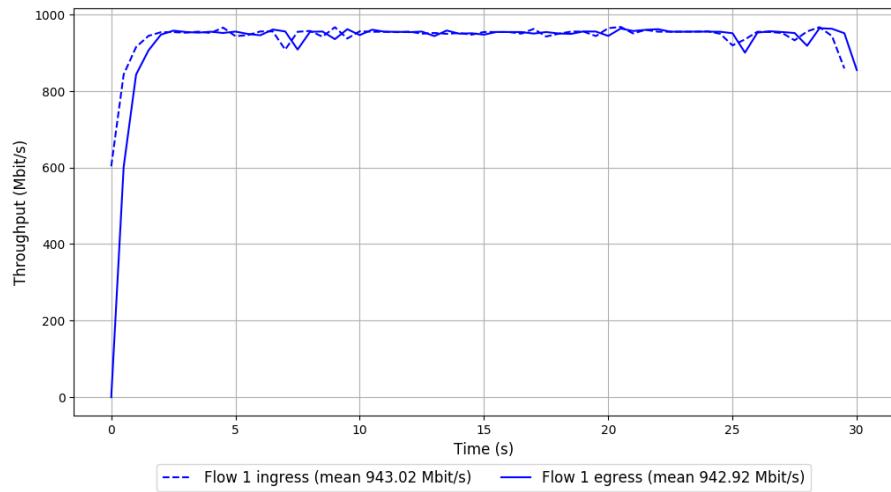


```
Run 4: Statistics of FillP
```

```
Start at: 2019-01-21 22:46:53
End at: 2019-01-21 22:47:23
Local clock offset: 3.348 ms
Remote clock offset: -2.035 ms

# Below is generated by plot.py at 2019-01-22 00:05:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 942.92 Mbit/s
95th percentile per-packet one-way delay: 7.705 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 942.92 Mbit/s
95th percentile per-packet one-way delay: 7.705 ms
Loss rate: 0.02%
```

Run 4: Report of FillP — Data Link

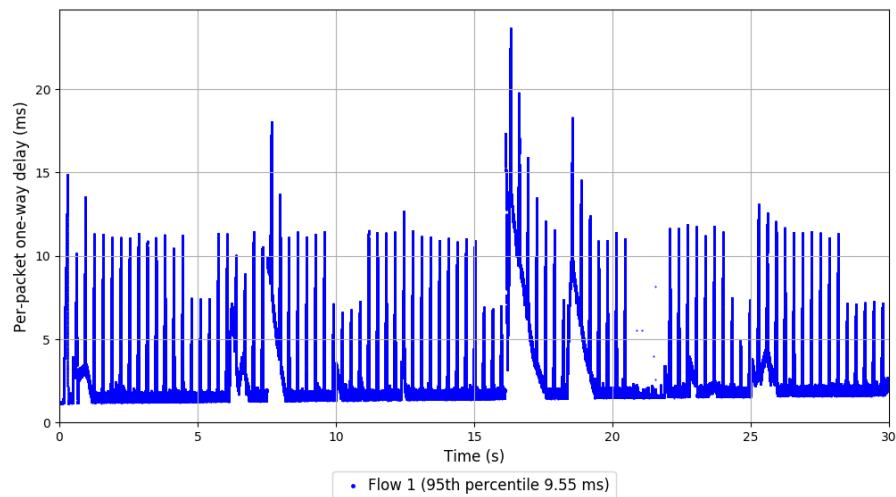
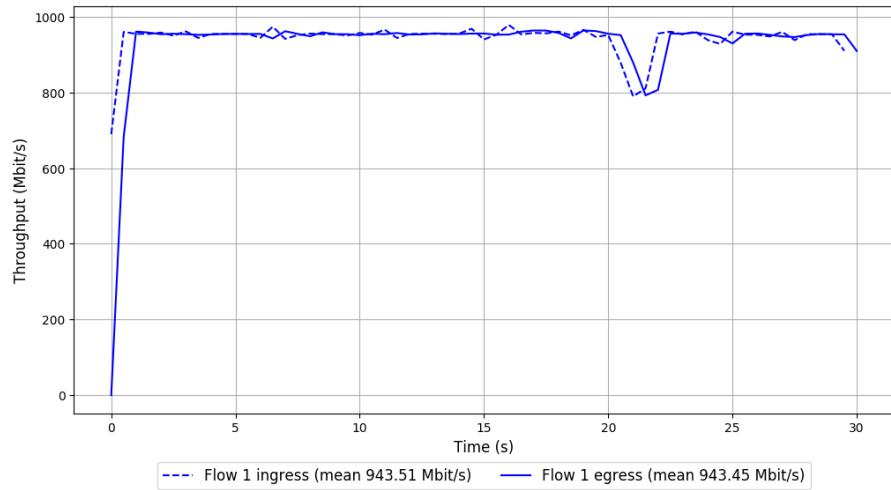


Run 5: Statistics of FillP

```
Start at: 2019-01-21 23:16:02
End at: 2019-01-21 23:16:32
Local clock offset: 3.522 ms
Remote clock offset: -5.166 ms

# Below is generated by plot.py at 2019-01-22 00:05:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 943.45 Mbit/s
95th percentile per-packet one-way delay: 9.549 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 943.45 Mbit/s
95th percentile per-packet one-way delay: 9.549 ms
Loss rate: 0.01%
```

Run 5: Report of FillP — Data Link

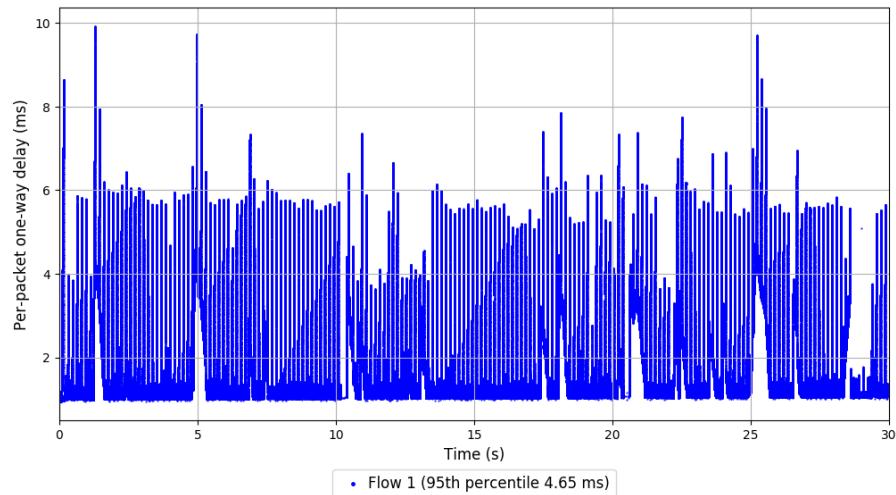
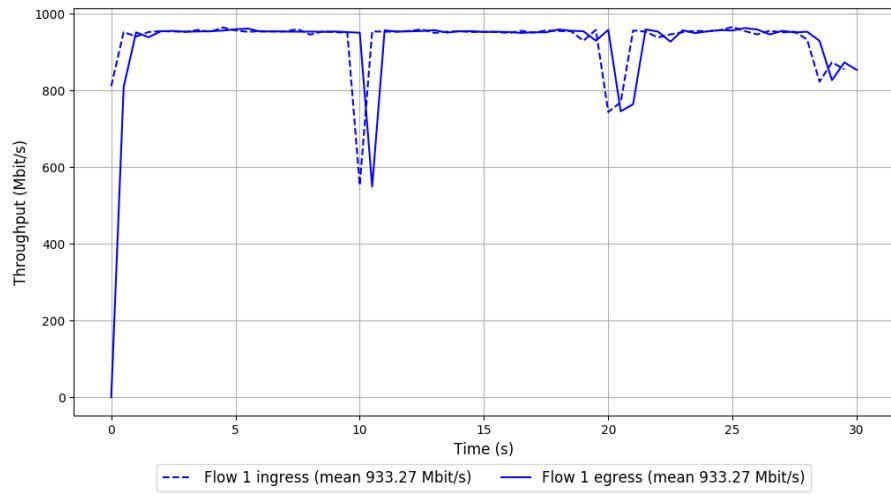


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-21 21:14:55
End at: 2019-01-21 21:15:25
Local clock offset: 2.923 ms
Remote clock offset: 2.934 ms

# Below is generated by plot.py at 2019-01-22 00:05:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 933.27 Mbit/s
95th percentile per-packet one-way delay: 4.648 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 933.27 Mbit/s
95th percentile per-packet one-way delay: 4.648 ms
Loss rate: 0.01%
```

Run 1: Report of FillP-Sheep — Data Link

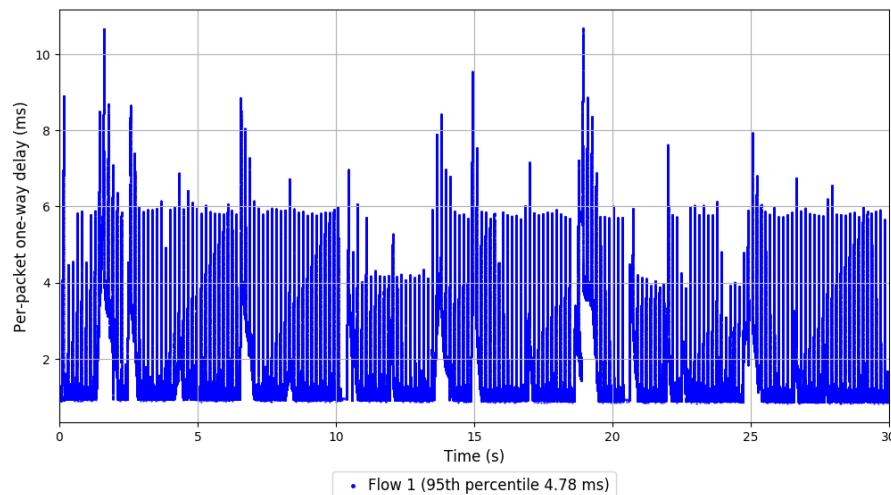
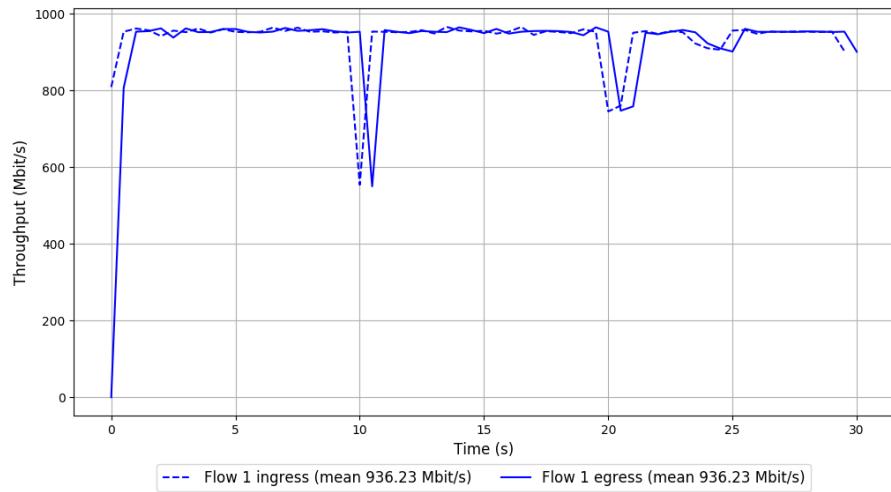


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-21 21:44:29
End at: 2019-01-21 21:44:59
Local clock offset: 2.849 ms
Remote clock offset: 1.031 ms

# Below is generated by plot.py at 2019-01-22 00:05:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 936.23 Mbit/s
95th percentile per-packet one-way delay: 4.782 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 936.23 Mbit/s
95th percentile per-packet one-way delay: 4.782 ms
Loss rate: 0.01%
```

Run 2: Report of FillP-Sheep — Data Link

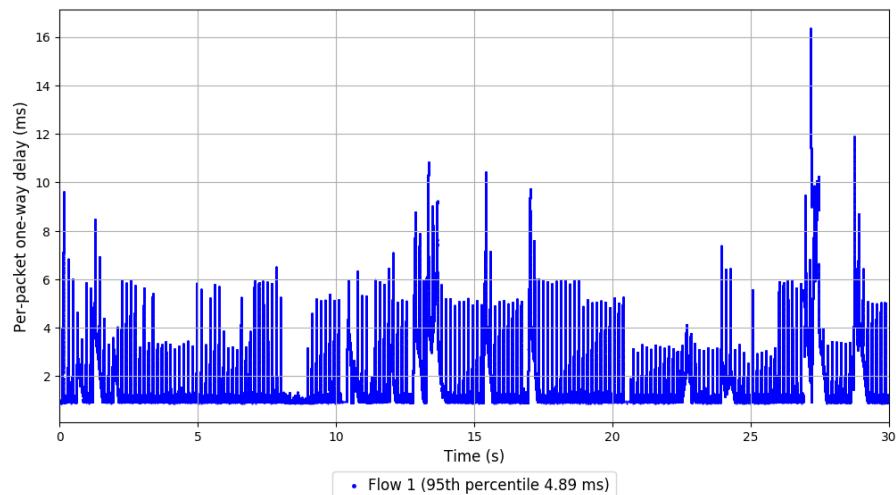
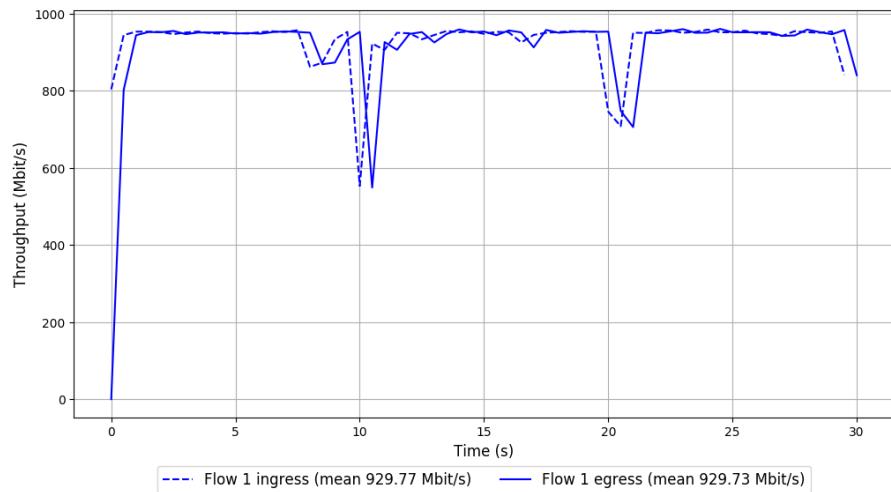


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-21 22:14:15
End at: 2019-01-21 22:14:45
Local clock offset: 2.834 ms
Remote clock offset: -0.383 ms

# Below is generated by plot.py at 2019-01-22 00:05:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 929.73 Mbit/s
95th percentile per-packet one-way delay: 4.891 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 929.73 Mbit/s
95th percentile per-packet one-way delay: 4.891 ms
Loss rate: 0.01%
```

Run 3: Report of FillP-Sheep — Data Link

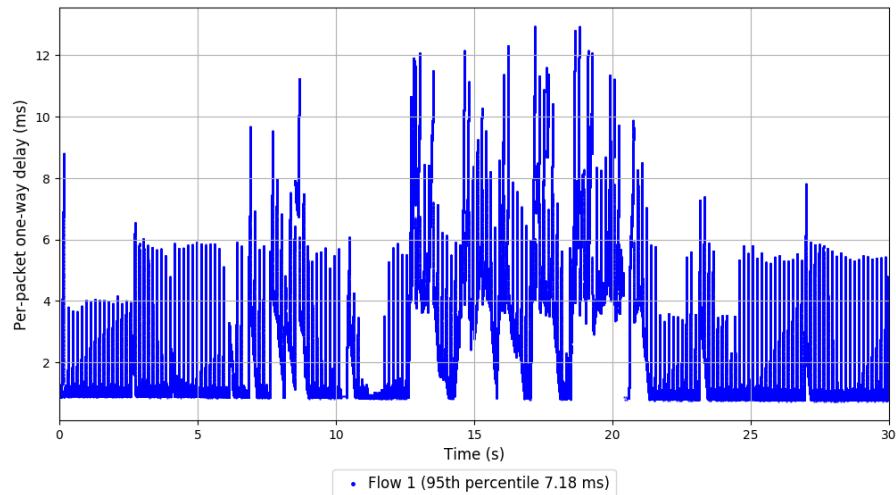
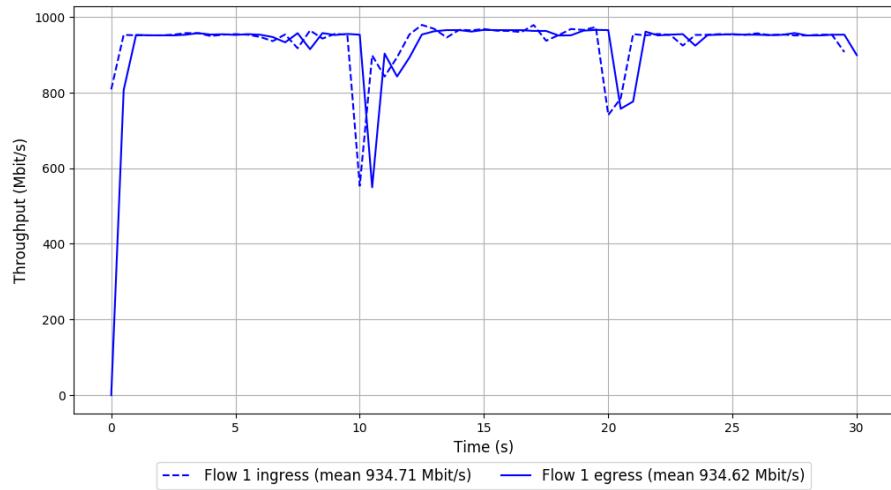


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-21 22:43:42
End at: 2019-01-21 22:44:12
Local clock offset: 3.33 ms
Remote clock offset: -1.247 ms

# Below is generated by plot.py at 2019-01-22 00:11:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 934.62 Mbit/s
95th percentile per-packet one-way delay: 7.184 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 934.62 Mbit/s
95th percentile per-packet one-way delay: 7.184 ms
Loss rate: 0.02%
```

Run 4: Report of FillP-Sheep — Data Link

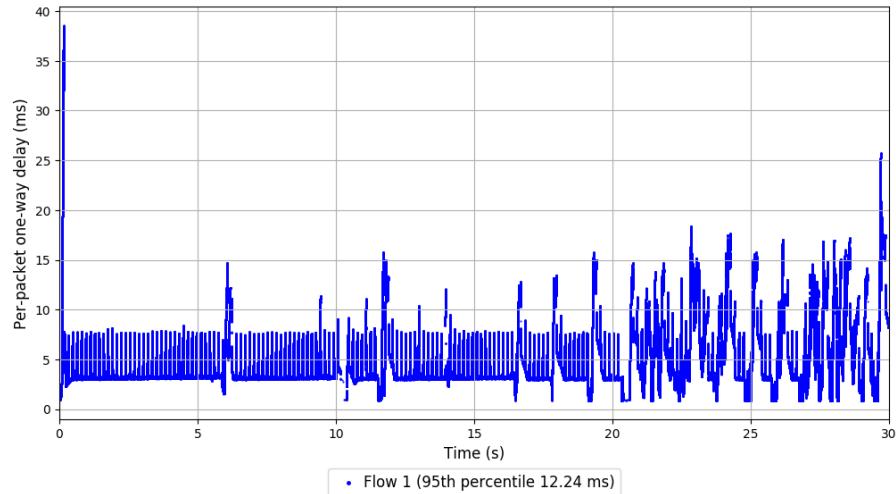
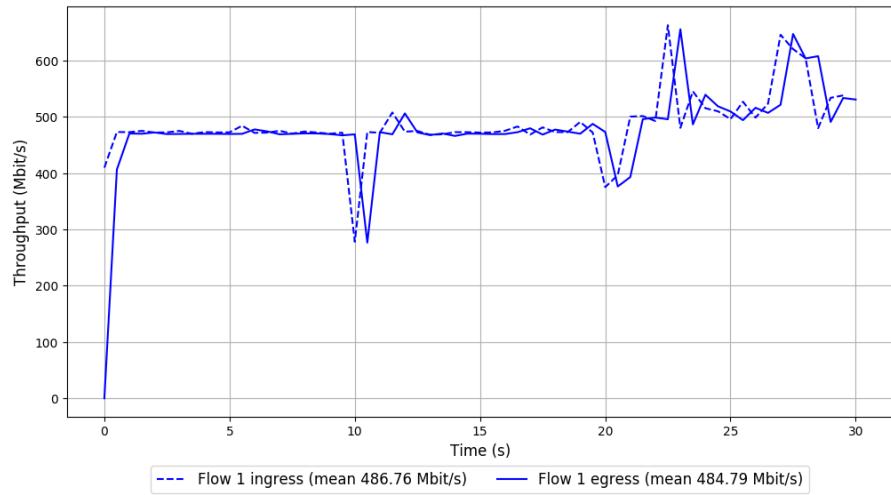


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-21 23:12:59
End at: 2019-01-21 23:13:29
Local clock offset: 3.501 ms
Remote clock offset: -5.033 ms

# Below is generated by plot.py at 2019-01-22 00:11:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 484.79 Mbit/s
95th percentile per-packet one-way delay: 12.242 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 484.79 Mbit/s
95th percentile per-packet one-way delay: 12.242 ms
Loss rate: 0.41%
```

Run 5: Report of FillP-Sheep — Data Link

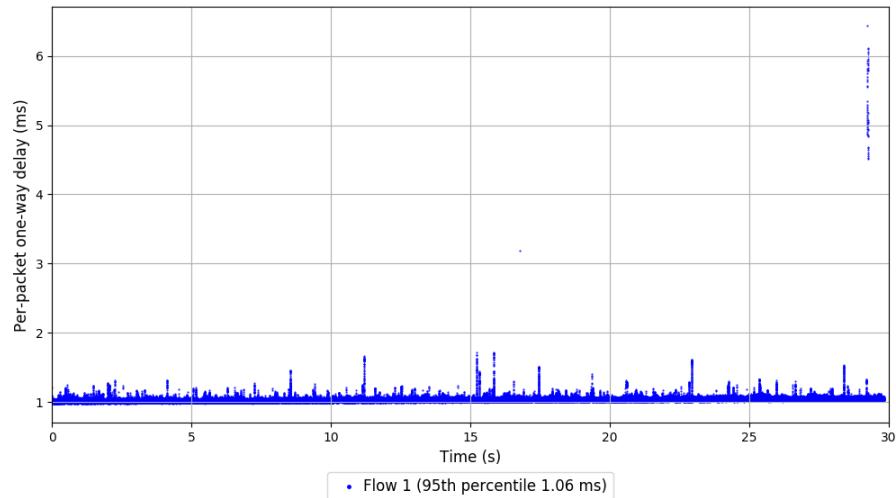
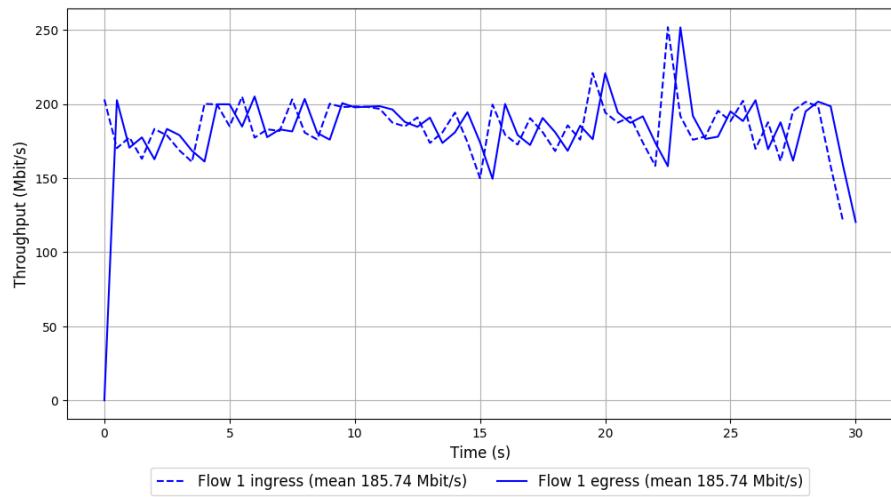


Run 1: Statistics of Indigo

```
Start at: 2019-01-21 21:28:26
End at: 2019-01-21 21:28:56
Local clock offset: 2.894 ms
Remote clock offset: 4.217 ms

# Below is generated by plot.py at 2019-01-22 00:11:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.74 Mbit/s
95th percentile per-packet one-way delay: 1.062 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 185.74 Mbit/s
95th percentile per-packet one-way delay: 1.062 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link

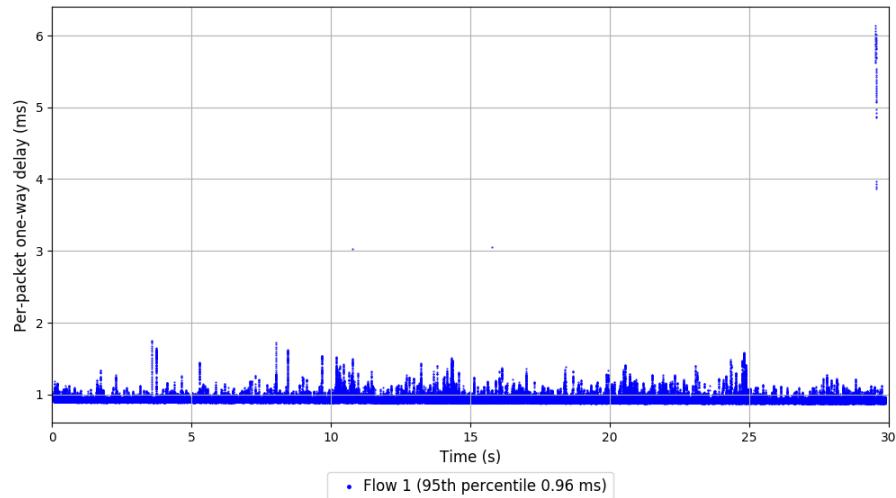
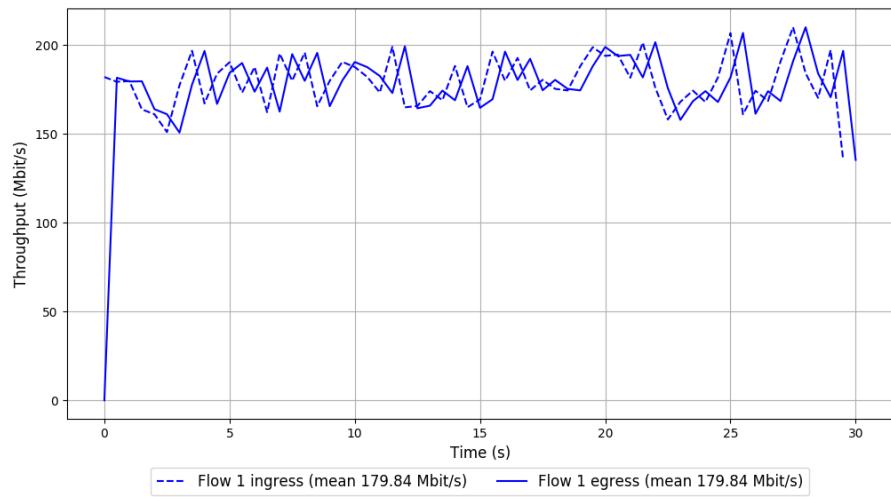


Run 2: Statistics of Indigo

```
Start at: 2019-01-21 21:57:57
End at: 2019-01-21 21:58:27
Local clock offset: 2.855 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-01-22 00:11:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.84 Mbit/s
95th percentile per-packet one-way delay: 0.960 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 179.84 Mbit/s
95th percentile per-packet one-way delay: 0.960 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo — Data Link

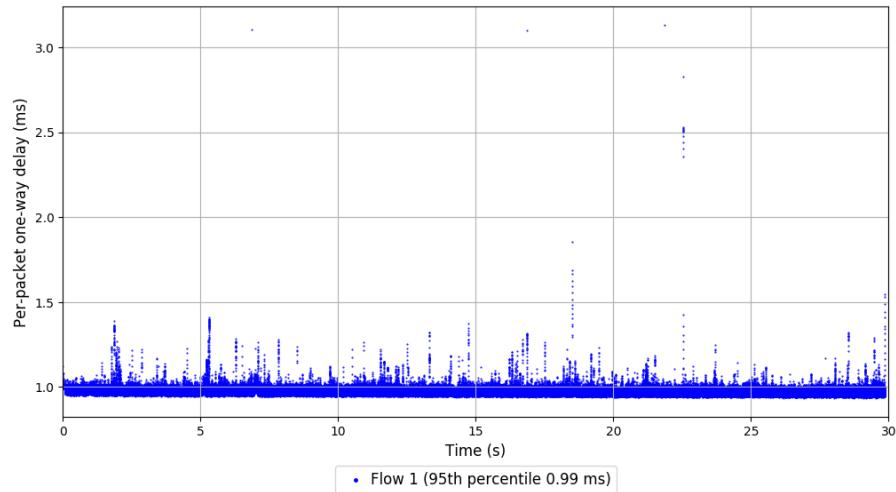
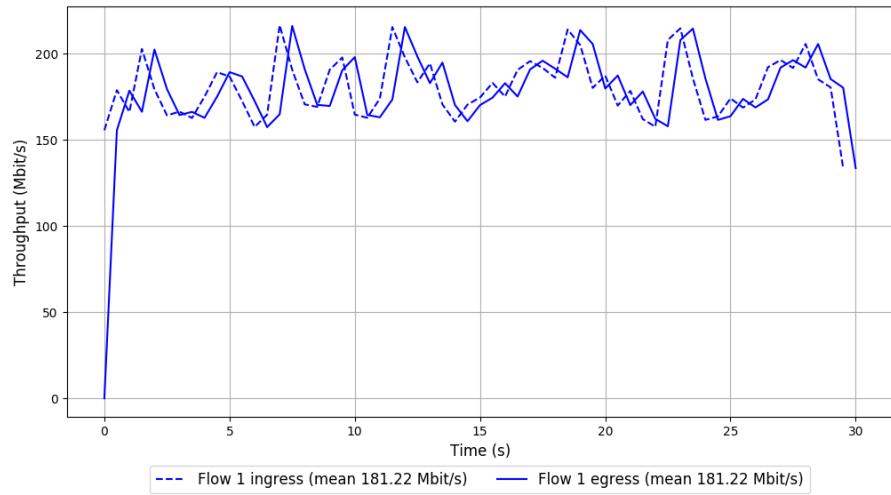


Run 3: Statistics of Indigo

```
Start at: 2019-01-21 22:27:42
End at: 2019-01-21 22:28:12
Local clock offset: 3.153 ms
Remote clock offset: -0.48 ms

# Below is generated by plot.py at 2019-01-22 00:11:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.22 Mbit/s
95th percentile per-packet one-way delay: 0.995 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 181.22 Mbit/s
95th percentile per-packet one-way delay: 0.995 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo — Data Link

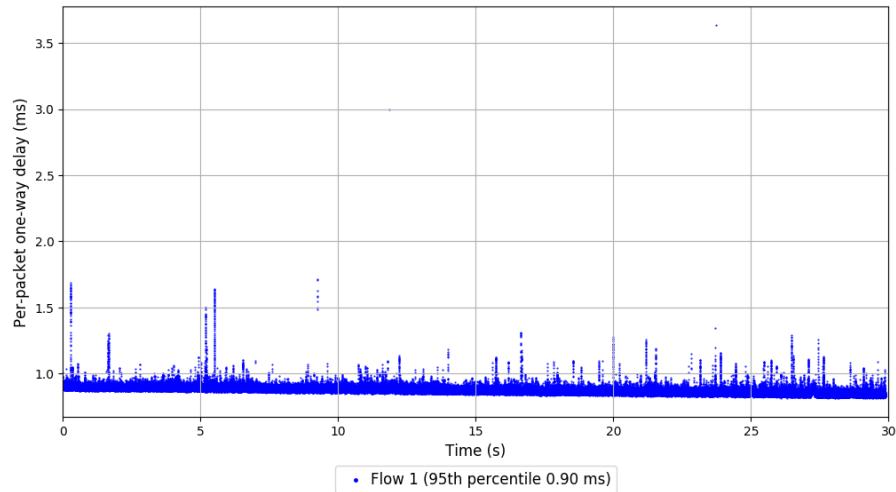
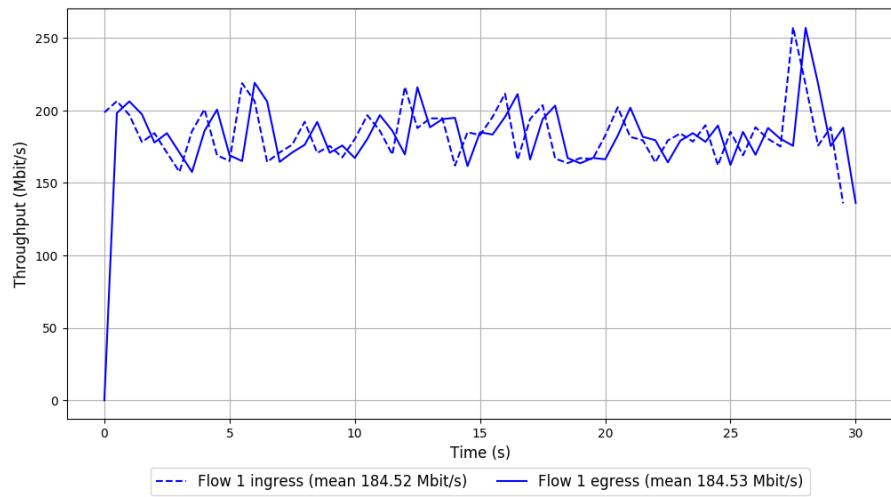


Run 4: Statistics of Indigo

```
Start at: 2019-01-21 22:57:05
End at: 2019-01-21 22:57:35
Local clock offset: 3.405 ms
Remote clock offset: -3.579 ms

# Below is generated by plot.py at 2019-01-22 00:11:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.53 Mbit/s
95th percentile per-packet one-way delay: 0.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.53 Mbit/s
95th percentile per-packet one-way delay: 0.904 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

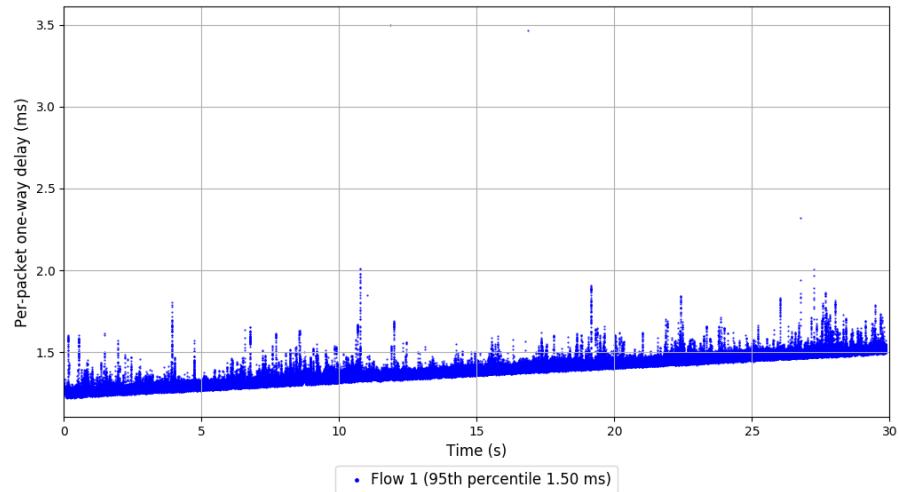
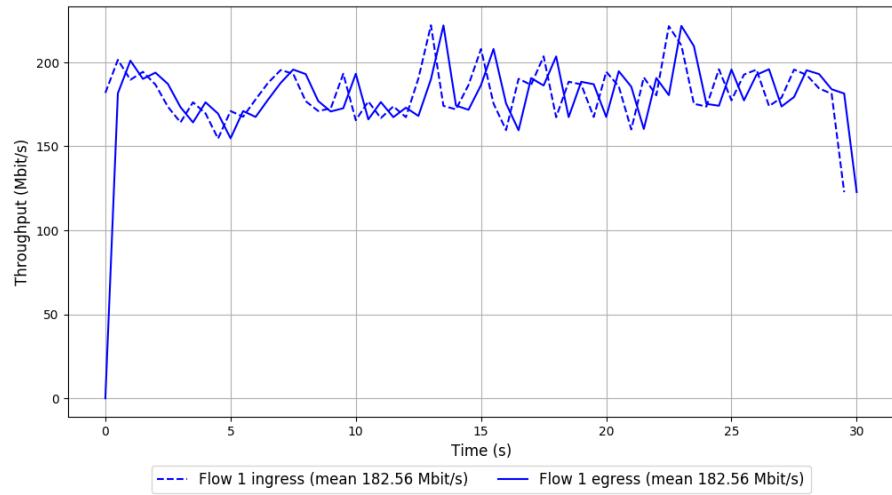


Run 5: Statistics of Indigo

```
Start at: 2019-01-21 23:26:12
End at: 2019-01-21 23:26:42
Local clock offset: 1.027 ms
Remote clock offset: 0.956 ms

# Below is generated by plot.py at 2019-01-22 00:11:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.56 Mbit/s
95th percentile per-packet one-way delay: 1.502 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.56 Mbit/s
95th percentile per-packet one-way delay: 1.502 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

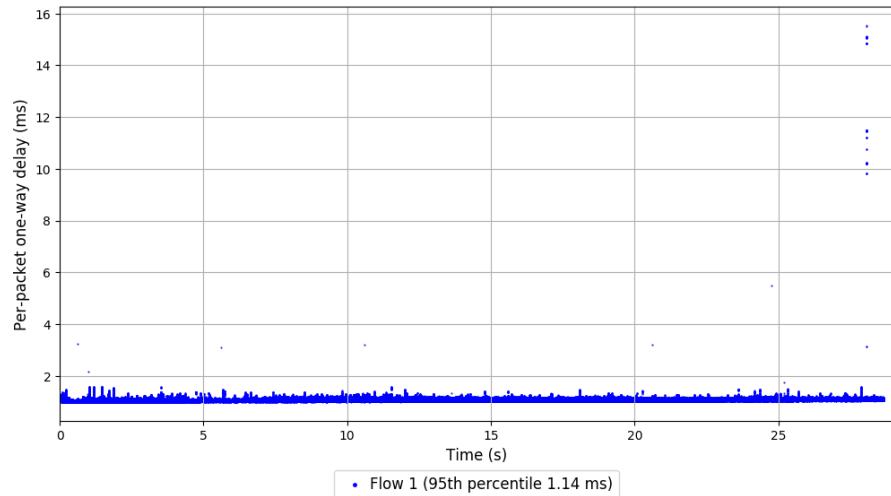
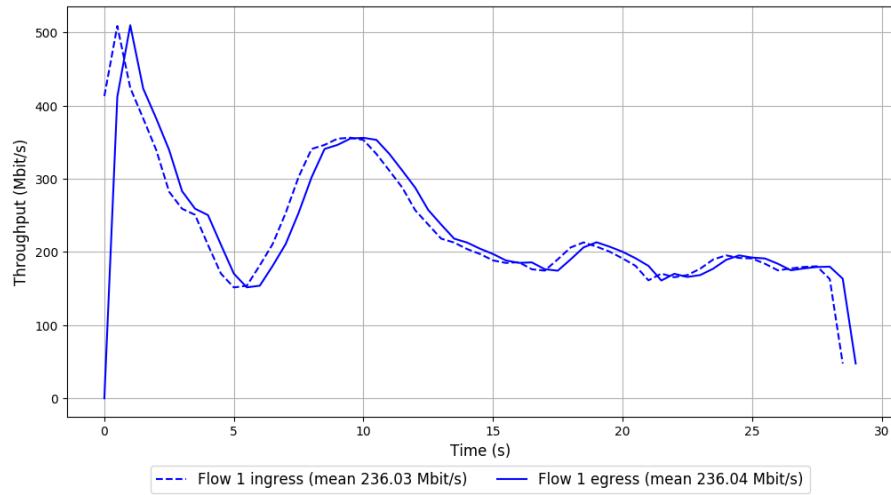


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-01-21 21:19:47
End at: 2019-01-21 21:20:18
Local clock offset: 2.9 ms
Remote clock offset: 3.473 ms

# Below is generated by plot.py at 2019-01-22 00:11:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 236.04 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 236.04 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC3 — Data Link

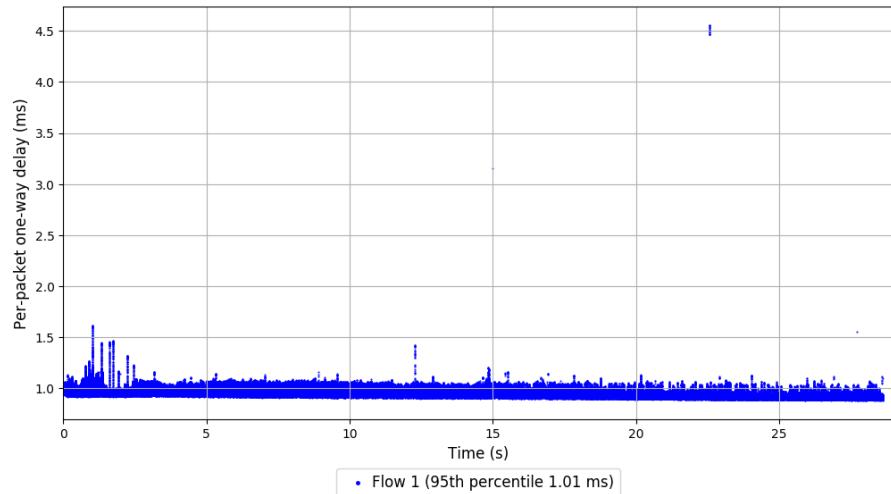
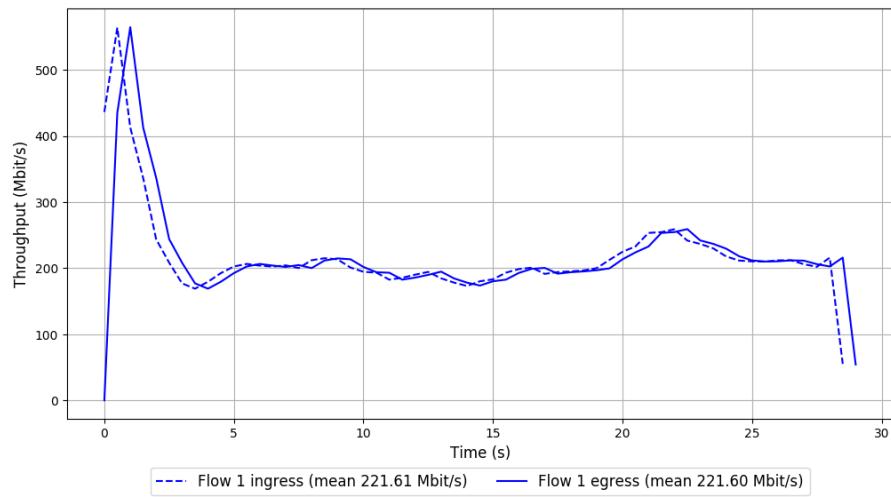


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 21:49:20
End at: 2019-01-21 21:49:50
Local clock offset: 2.851 ms
Remote clock offset: 0.478 ms

# Below is generated by plot.py at 2019-01-22 00:11:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.60 Mbit/s
95th percentile per-packet one-way delay: 1.013 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 221.60 Mbit/s
95th percentile per-packet one-way delay: 1.013 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesC3 — Data Link

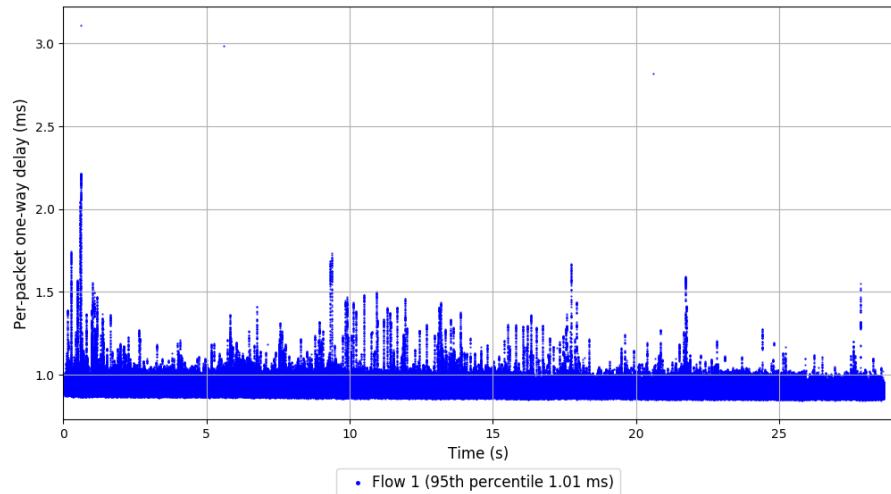
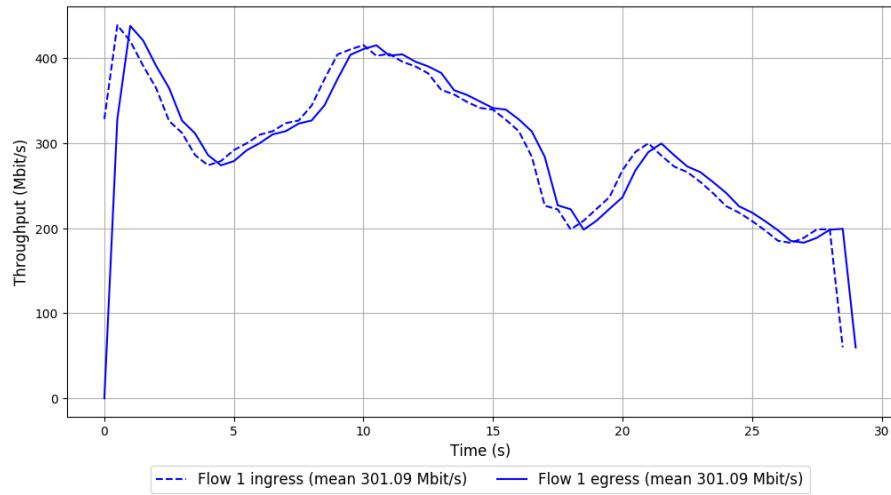


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 22:19:05
End at: 2019-01-21 22:19:35
Local clock offset: 2.883 ms
Remote clock offset: -0.352 ms

# Below is generated by plot.py at 2019-01-22 00:11:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 301.09 Mbit/s
95th percentile per-packet one-way delay: 1.006 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 301.09 Mbit/s
95th percentile per-packet one-way delay: 1.006 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC3 — Data Link

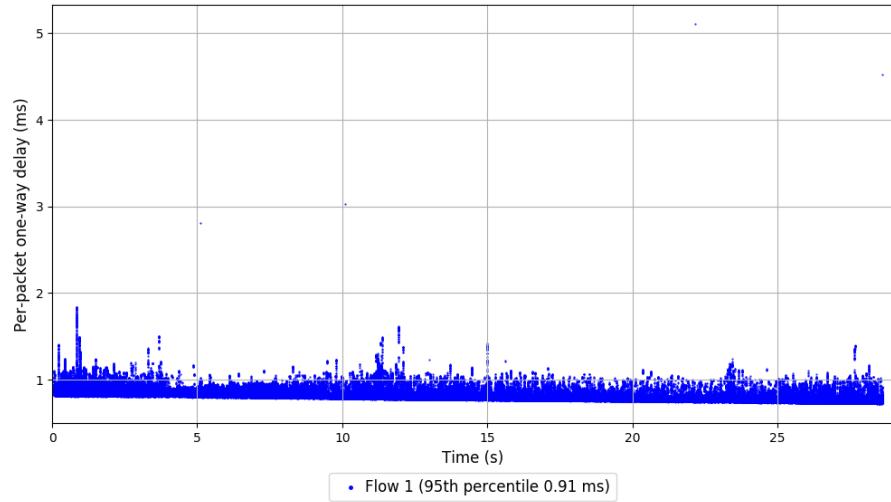
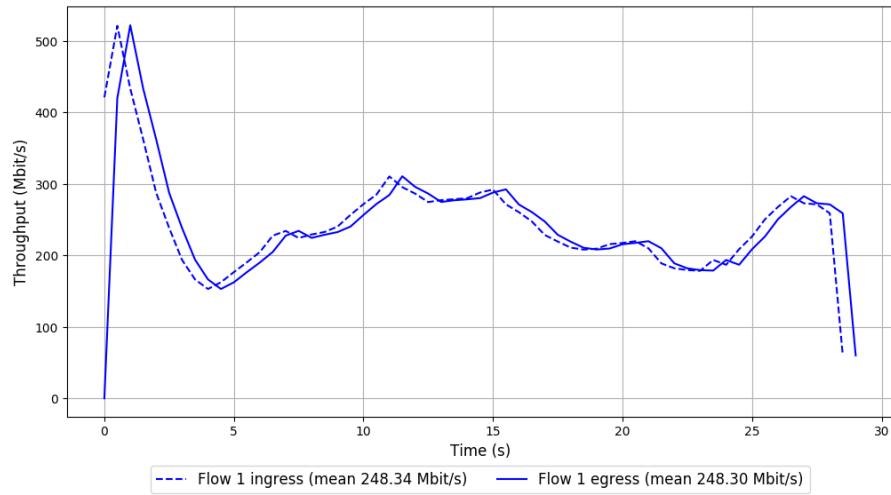


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 22:48:30
End at: 2019-01-21 22:49:00
Local clock offset: 3.349 ms
Remote clock offset: -2.294 ms

# Below is generated by plot.py at 2019-01-22 00:11:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.30 Mbit/s
95th percentile per-packet one-way delay: 0.913 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 248.30 Mbit/s
95th percentile per-packet one-way delay: 0.913 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC3 — Data Link

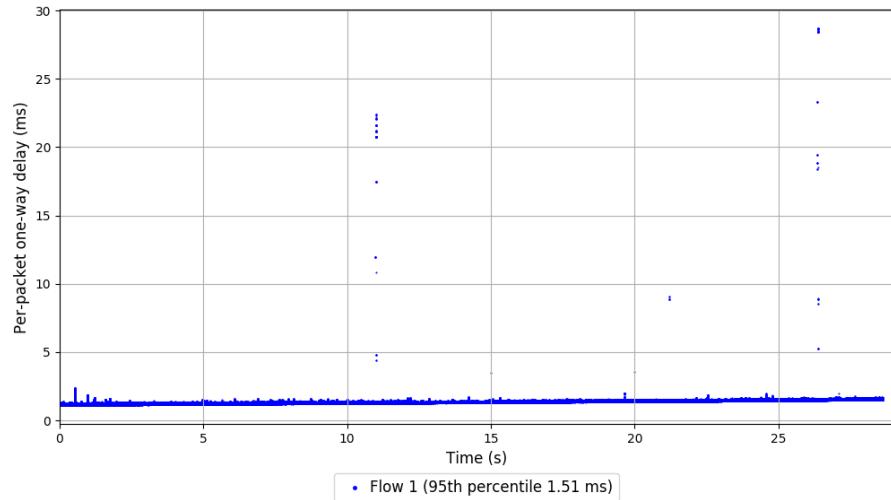
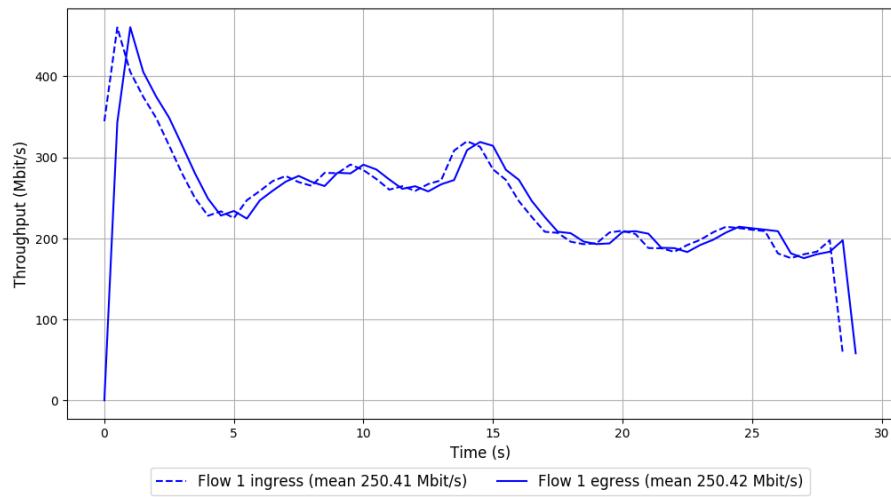


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 23:17:39
End at: 2019-01-21 23:18:09
Local clock offset: 3.538 ms
Remote clock offset: -3.63 ms

# Below is generated by plot.py at 2019-01-22 00:11:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.42 Mbit/s
95th percentile per-packet one-way delay: 1.513 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 250.42 Mbit/s
95th percentile per-packet one-way delay: 1.513 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesC3 — Data Link

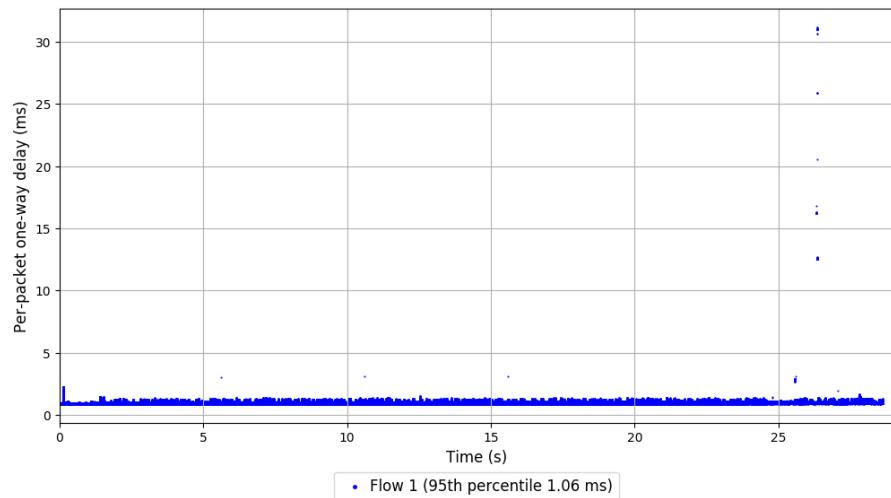
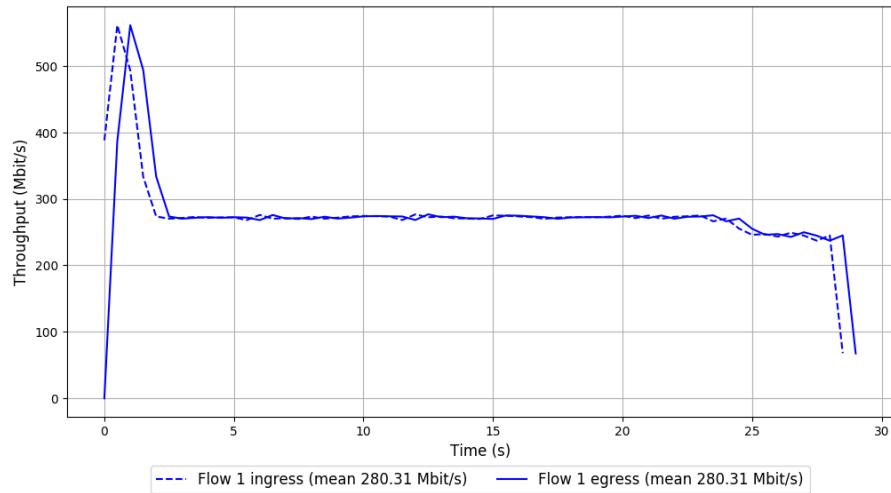


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-21 21:25:27
End at: 2019-01-21 21:25:57
Local clock offset: 2.901 ms
Remote clock offset: 4.095 ms

# Below is generated by plot.py at 2019-01-22 00:11:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 280.31 Mbit/s
95th percentile per-packet one-way delay: 1.056 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 280.31 Mbit/s
95th percentile per-packet one-way delay: 1.056 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC5 — Data Link

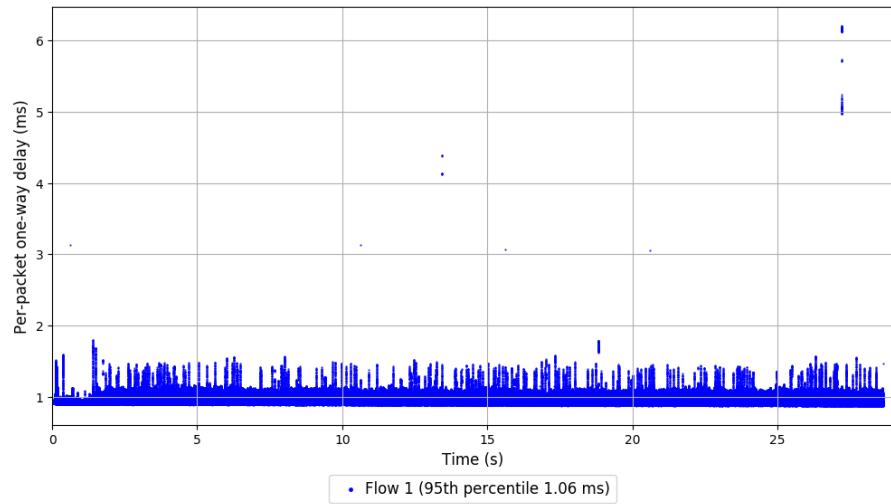
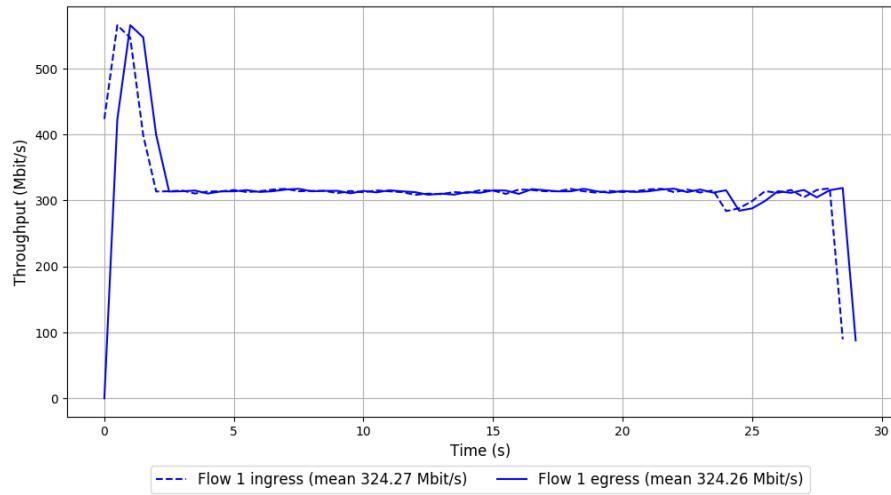


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 21:54:57
End at: 2019-01-21 21:55:27
Local clock offset: 2.851 ms
Remote clock offset: 0.132 ms

# Below is generated by plot.py at 2019-01-22 00:12:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.26 Mbit/s
95th percentile per-packet one-way delay: 1.064 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 324.26 Mbit/s
95th percentile per-packet one-way delay: 1.064 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesC5 — Data Link

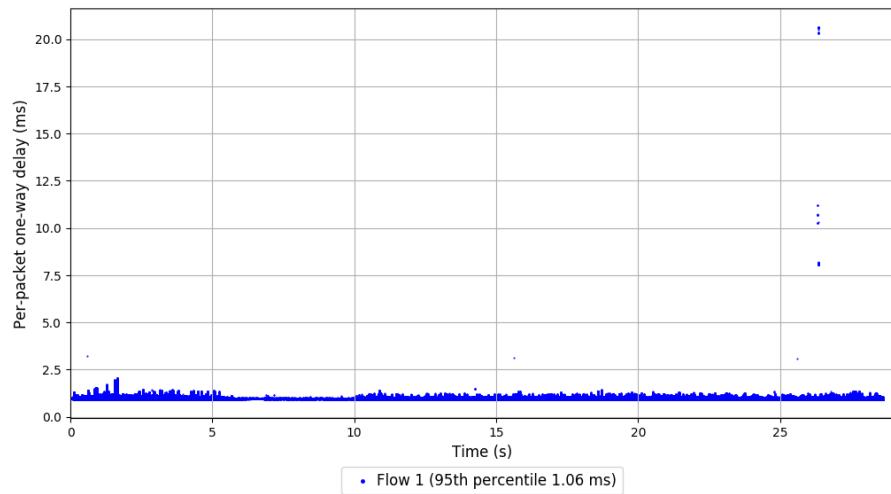
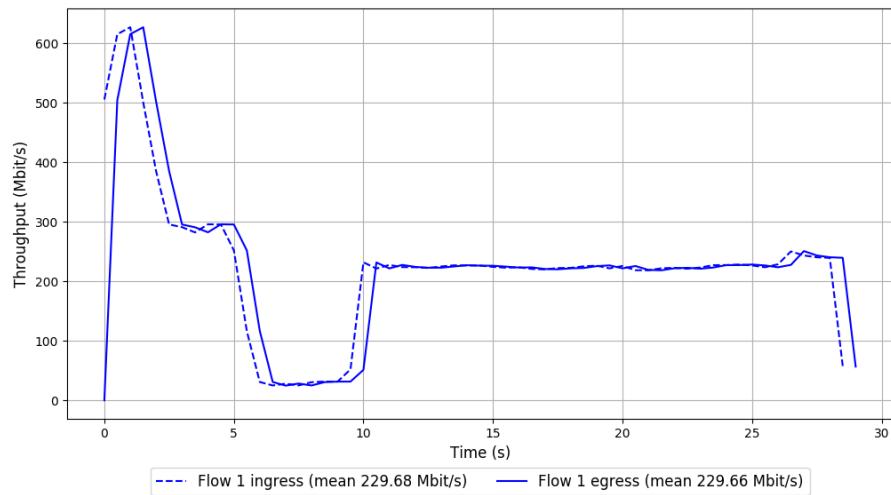


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 22:24:45
End at: 2019-01-21 22:25:15
Local clock offset: 3.084 ms
Remote clock offset: -0.448 ms

# Below is generated by plot.py at 2019-01-22 00:12:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.66 Mbit/s
95th percentile per-packet one-way delay: 1.060 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 229.66 Mbit/s
95th percentile per-packet one-way delay: 1.060 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesC5 — Data Link

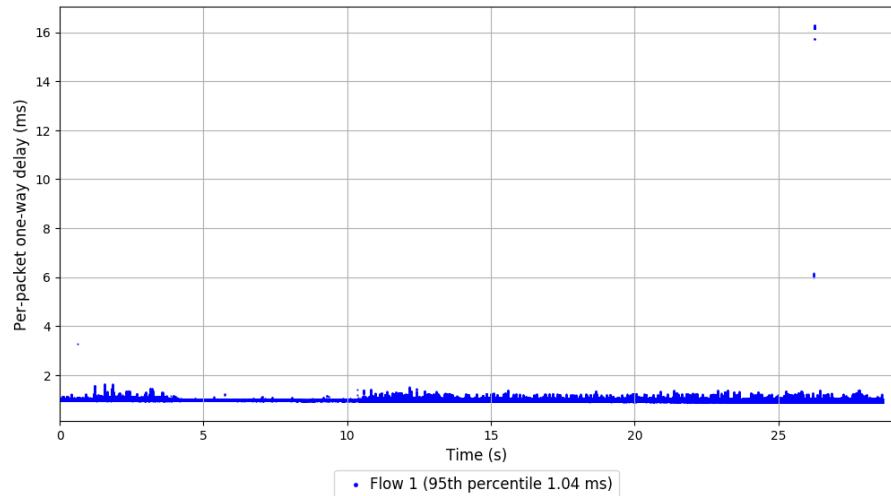
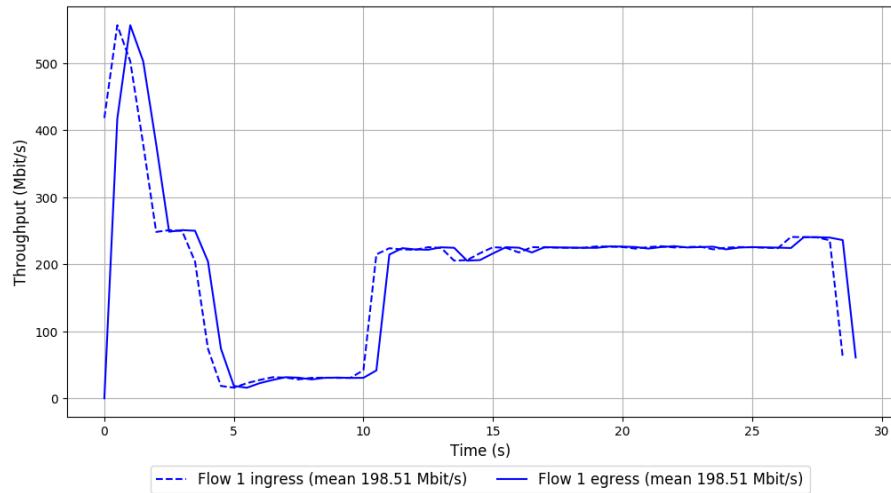


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 22:54:08
End at: 2019-01-21 22:54:38
Local clock offset: 3.391 ms
Remote clock offset: -3.298 ms

# Below is generated by plot.py at 2019-01-22 00:12:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.51 Mbit/s
95th percentile per-packet one-way delay: 1.043 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 198.51 Mbit/s
95th percentile per-packet one-way delay: 1.043 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC5 — Data Link

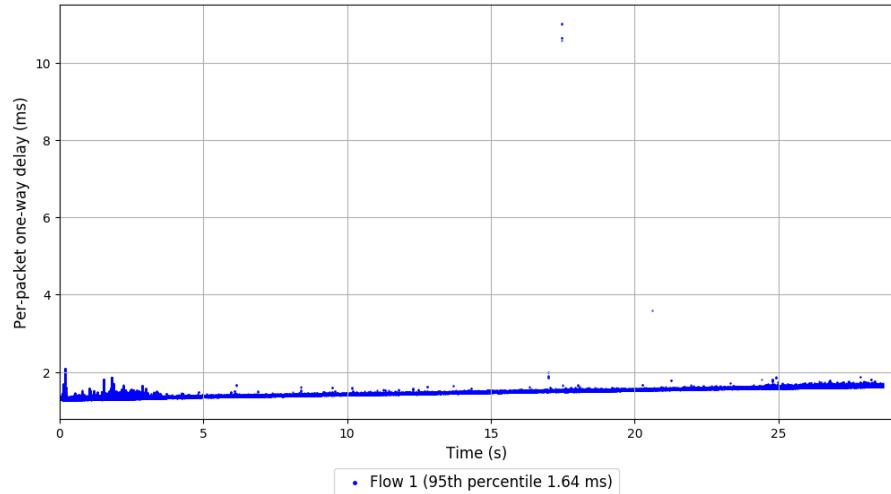
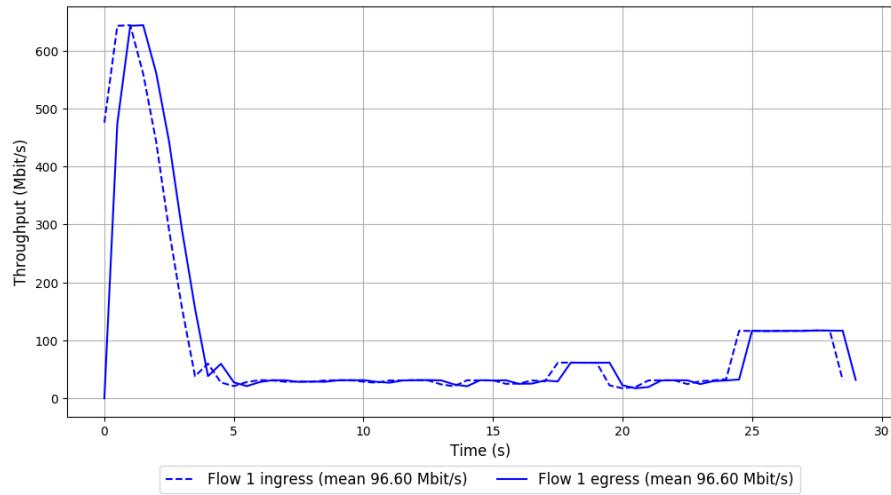


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 23:23:18
End at: 2019-01-21 23:23:48
Local clock offset: 1.756 ms
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2019-01-22 00:12:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.60 Mbit/s
95th percentile per-packet one-way delay: 1.640 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.60 Mbit/s
95th percentile per-packet one-way delay: 1.640 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesC5 — Data Link

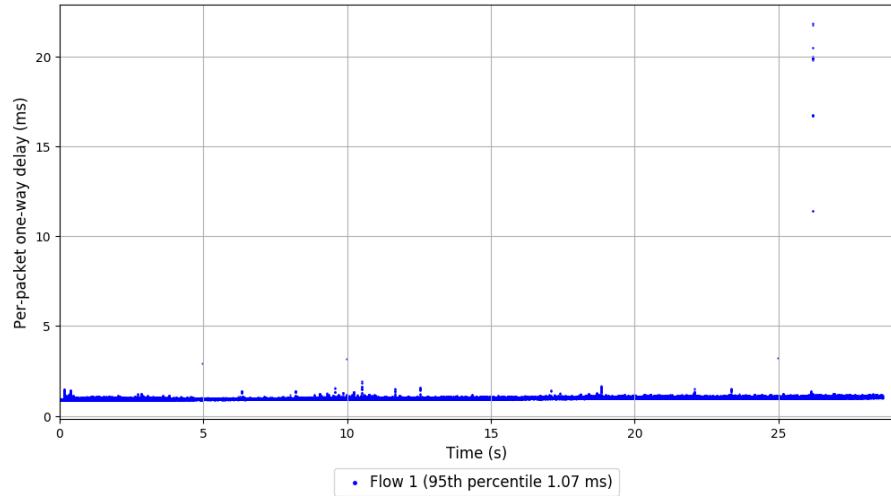
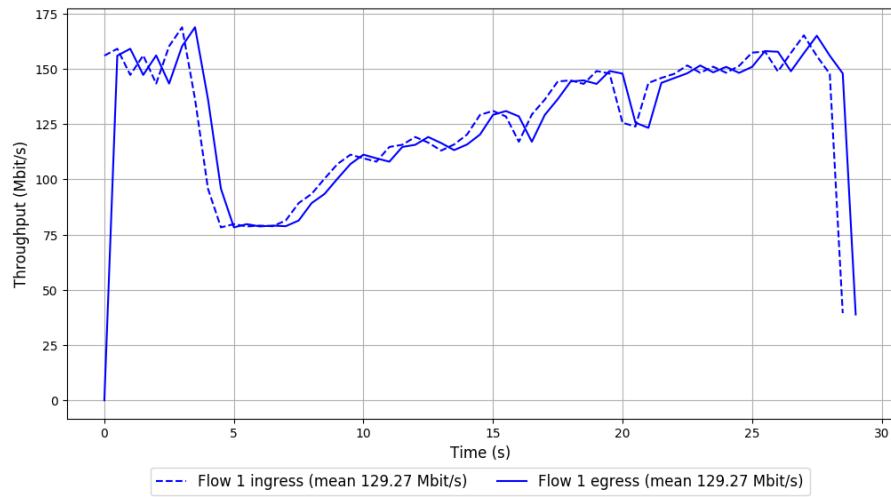


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-01-21 21:04:01
End at: 2019-01-21 21:04:31
Local clock offset: 2.875 ms
Remote clock offset: 1.082 ms

# Below is generated by plot.py at 2019-01-22 00:12:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 129.27 Mbit/s
95th percentile per-packet one-way delay: 1.069 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 129.27 Mbit/s
95th percentile per-packet one-way delay: 1.069 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesD — Data Link

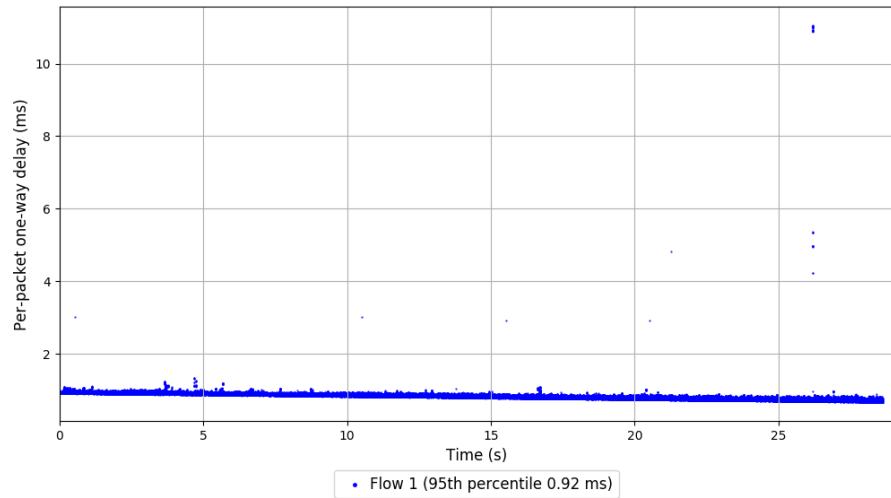
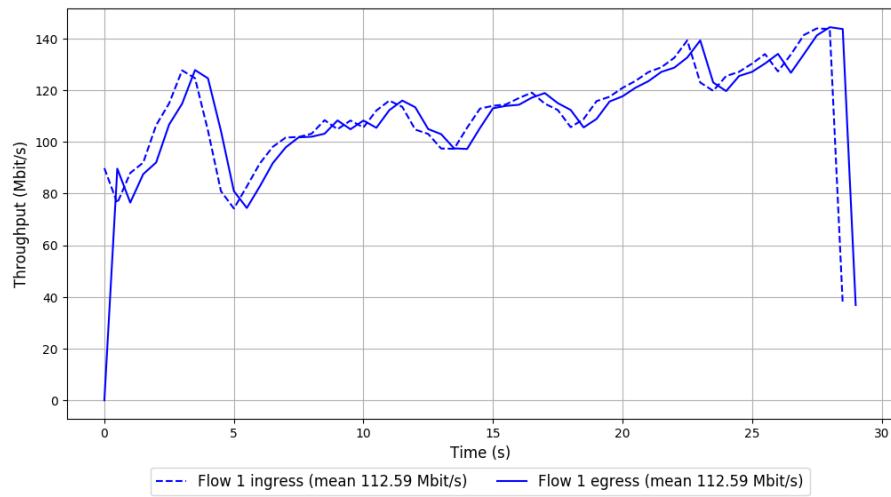


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 21:33:51
End at: 2019-01-21 21:34:21
Local clock offset: 2.894 ms
Remote clock offset: 4.363 ms

# Below is generated by plot.py at 2019-01-22 00:12:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 112.59 Mbit/s
95th percentile per-packet one-way delay: 0.919 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 112.59 Mbit/s
95th percentile per-packet one-way delay: 0.919 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesD — Data Link

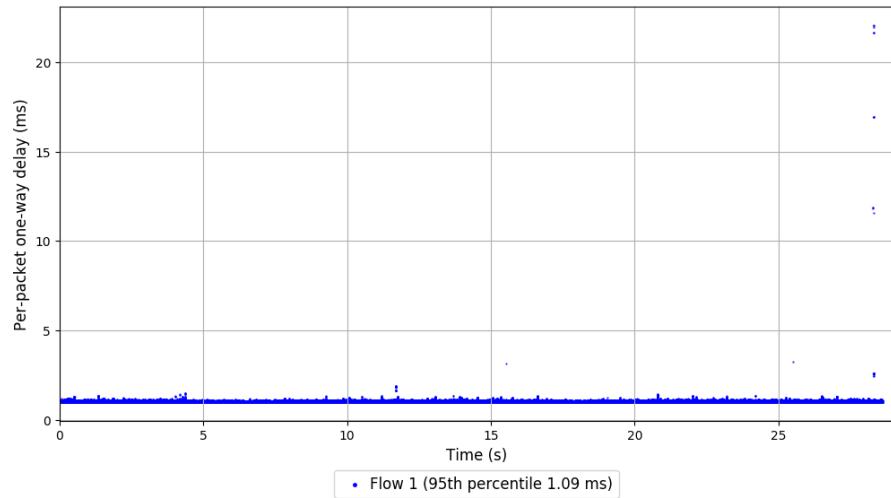
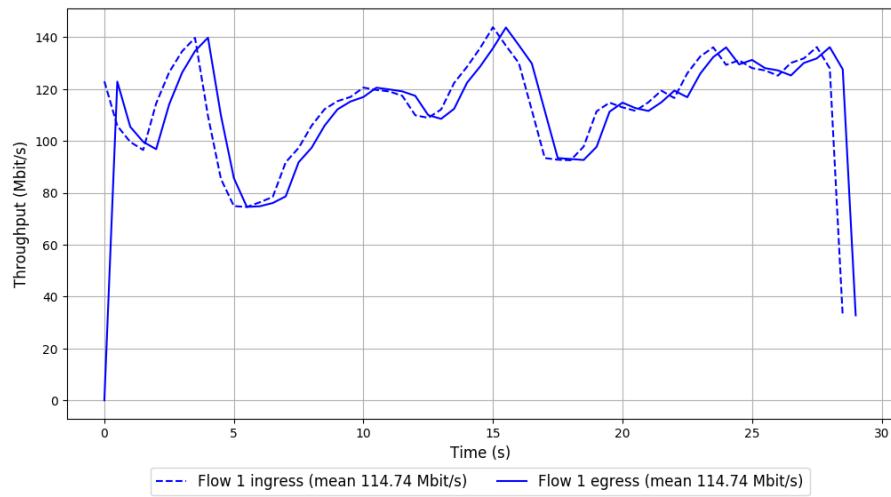


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 22:03:20
End at: 2019-01-21 22:03:50
Local clock offset: 2.855 ms
Remote clock offset: -0.244 ms

# Below is generated by plot.py at 2019-01-22 00:12:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 114.74 Mbit/s
95th percentile per-packet one-way delay: 1.088 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 114.74 Mbit/s
95th percentile per-packet one-way delay: 1.088 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesD — Data Link

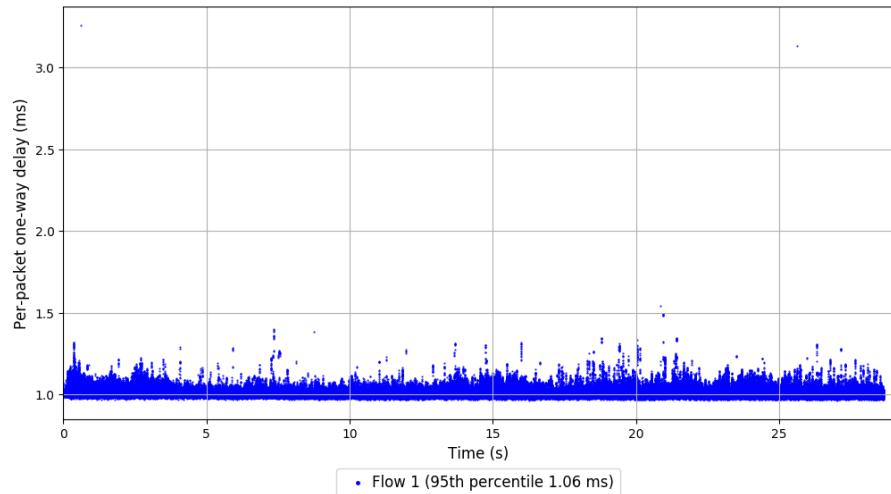
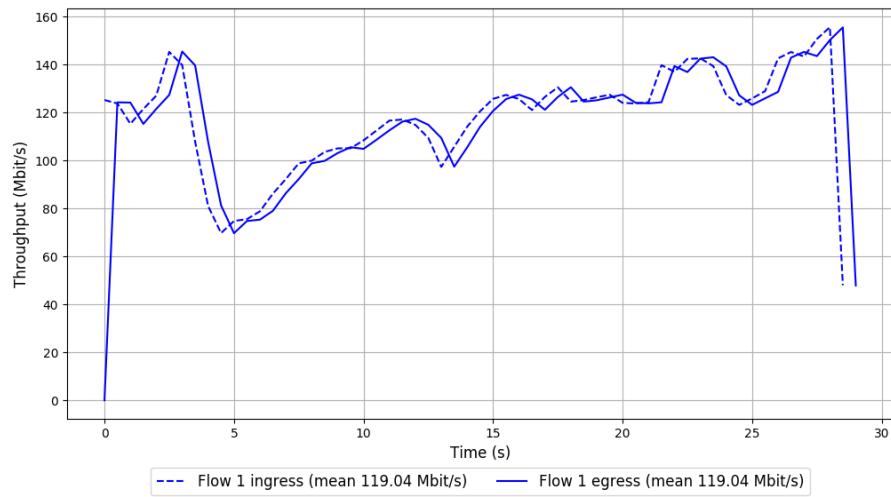


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 22:33:05
End at: 2019-01-21 22:33:35
Local clock offset: 3.234 ms
Remote clock offset: -0.532 ms

# Below is generated by plot.py at 2019-01-22 00:12:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 119.04 Mbit/s
95th percentile per-packet one-way delay: 1.063 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 119.04 Mbit/s
95th percentile per-packet one-way delay: 1.063 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesD — Data Link

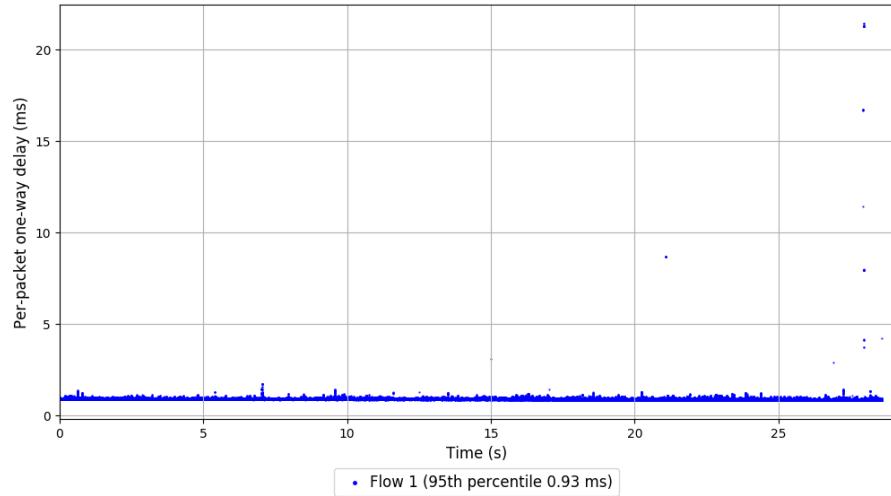
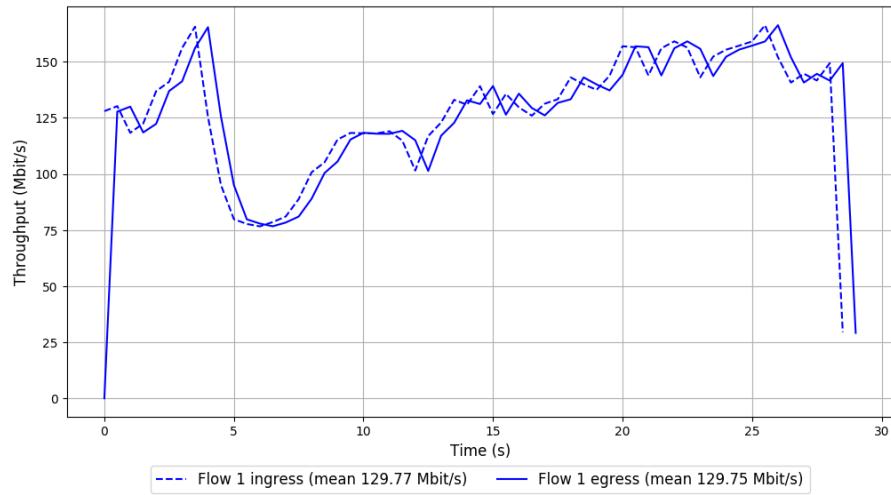


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 23:02:30
End at: 2019-01-21 23:03:00
Local clock offset: 3.437 ms
Remote clock offset: -4.088 ms

# Below is generated by plot.py at 2019-01-22 00:12:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 129.75 Mbit/s
95th percentile per-packet one-way delay: 0.930 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 129.75 Mbit/s
95th percentile per-packet one-way delay: 0.930 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesD — Data Link

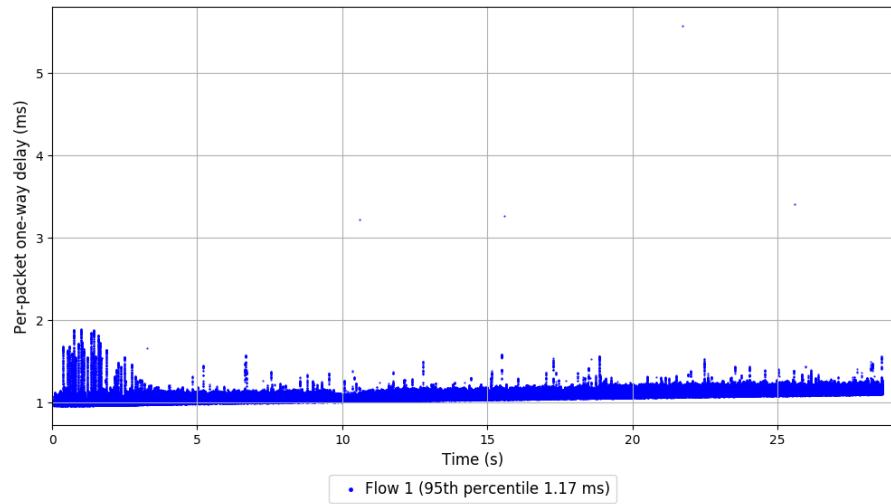
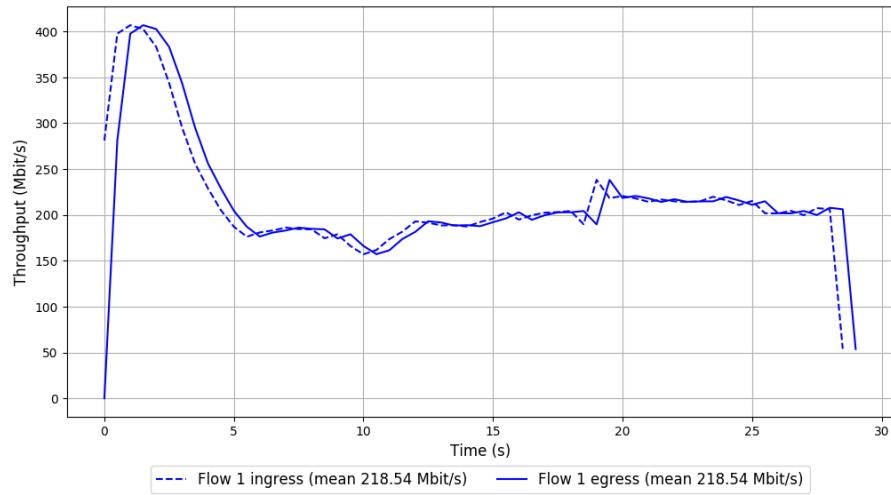


```
Run 1: Statistics of Indigo-MusesT
```

```
Start at: 2019-01-21 21:02:42
End at: 2019-01-21 21:03:12
Local clock offset: 2.896 ms
Remote clock offset: 0.642 ms

# Below is generated by plot.py at 2019-01-22 00:14:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.54 Mbit/s
95th percentile per-packet one-way delay: 1.169 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 218.54 Mbit/s
95th percentile per-packet one-way delay: 1.169 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesT — Data Link

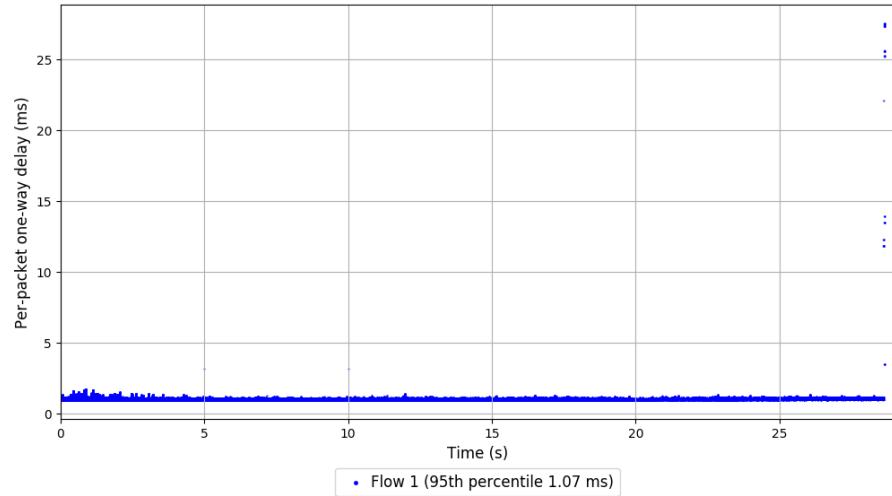
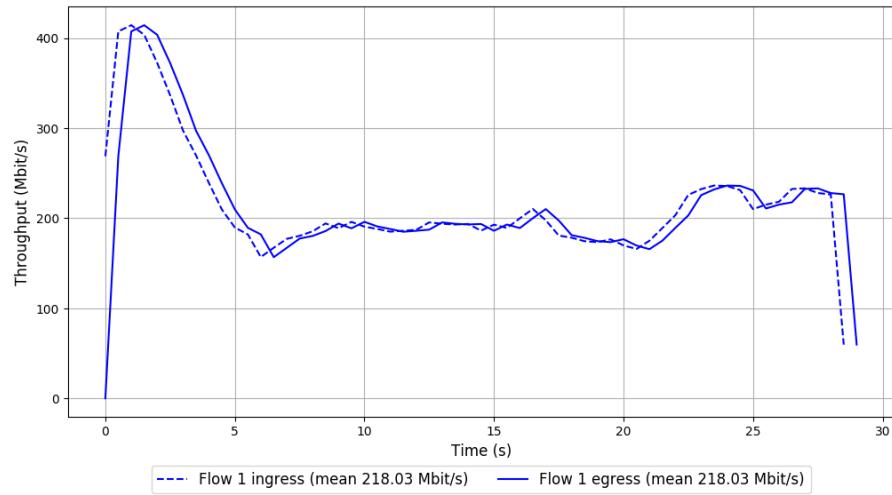


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 21:32:32
End at: 2019-01-21 21:33:02
Local clock offset: 2.882 ms
Remote clock offset: 4.565 ms

# Below is generated by plot.py at 2019-01-22 00:14:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.03 Mbit/s
95th percentile per-packet one-way delay: 1.071 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 218.03 Mbit/s
95th percentile per-packet one-way delay: 1.071 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesT — Data Link

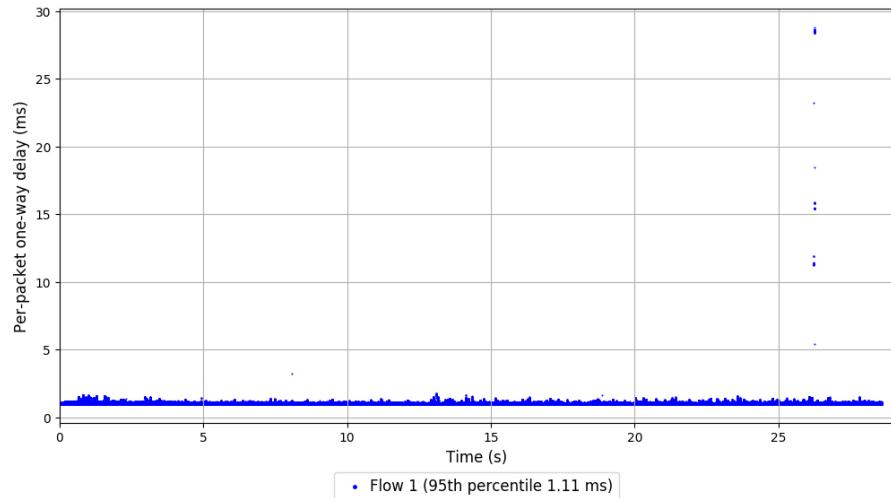
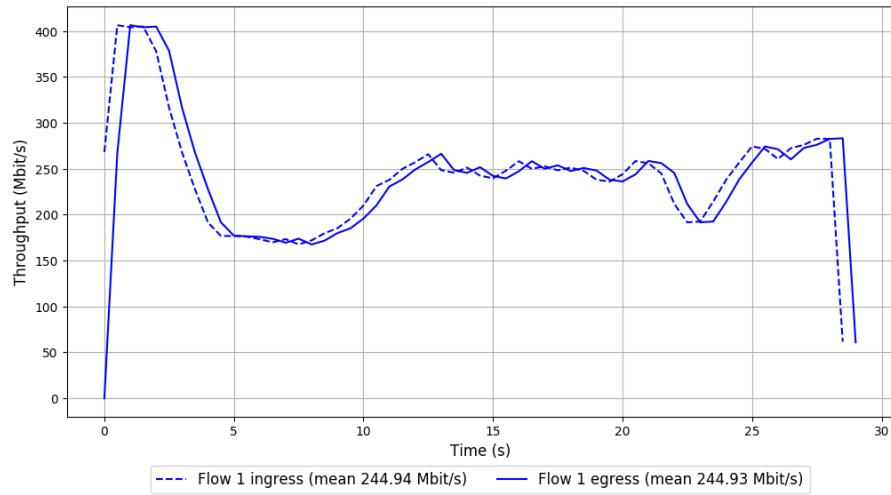


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 22:02:00
End at: 2019-01-21 22:02:30
Local clock offset: 2.847 ms
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2019-01-22 00:14:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.93 Mbit/s
95th percentile per-packet one-way delay: 1.113 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 244.93 Mbit/s
95th percentile per-packet one-way delay: 1.113 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-MusesT — Data Link

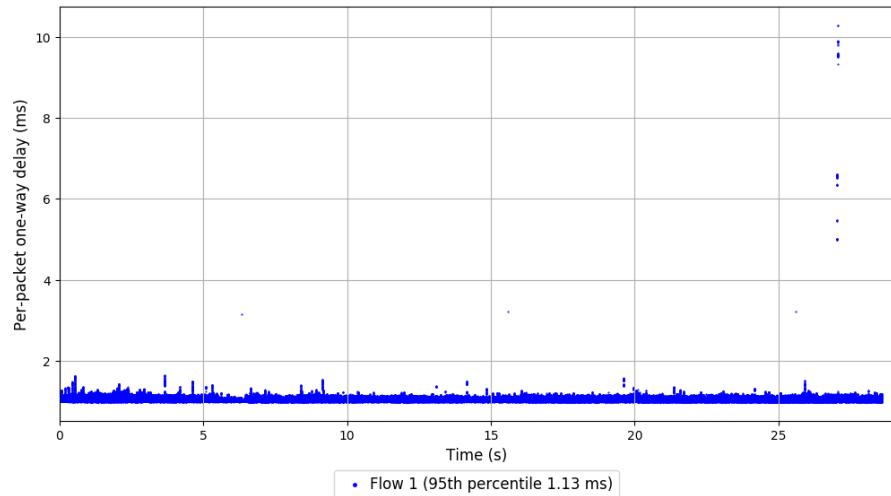
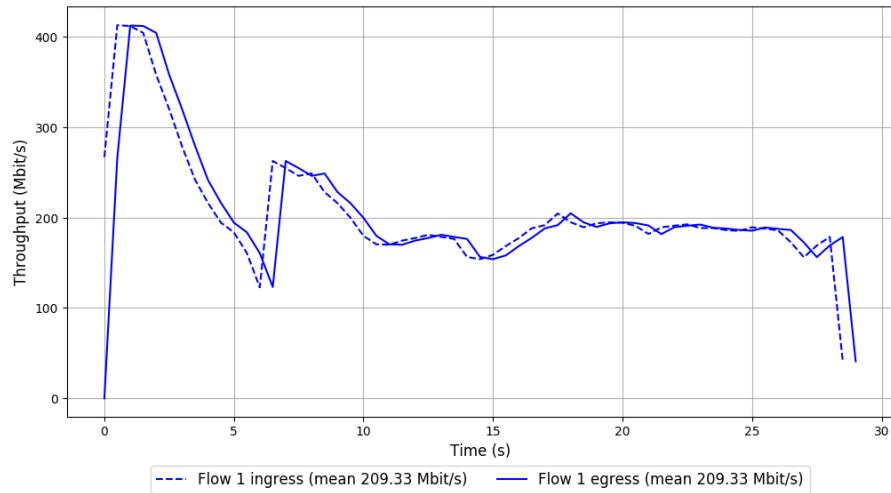


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 22:31:46
End at: 2019-01-21 22:32:16
Local clock offset: 3.212 ms
Remote clock offset: -0.543 ms

# Below is generated by plot.py at 2019-01-22 00:14:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.33 Mbit/s
95th percentile per-packet one-way delay: 1.128 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 209.33 Mbit/s
95th percentile per-packet one-way delay: 1.128 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesT — Data Link

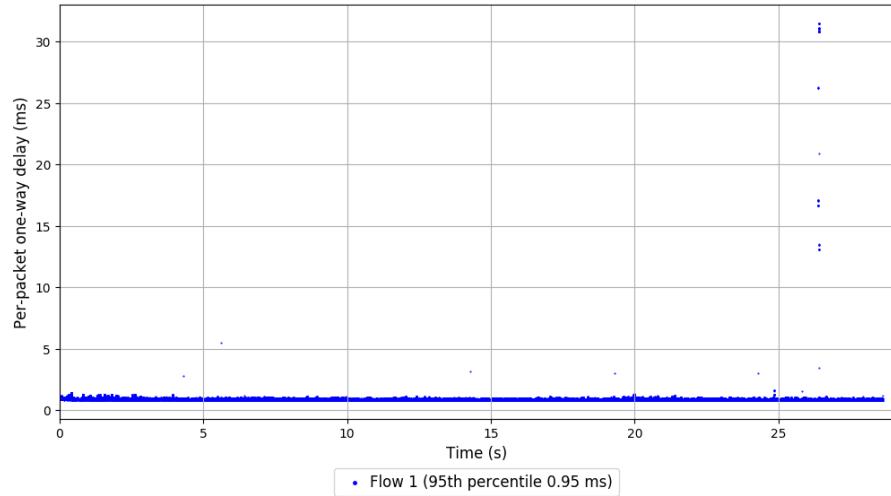
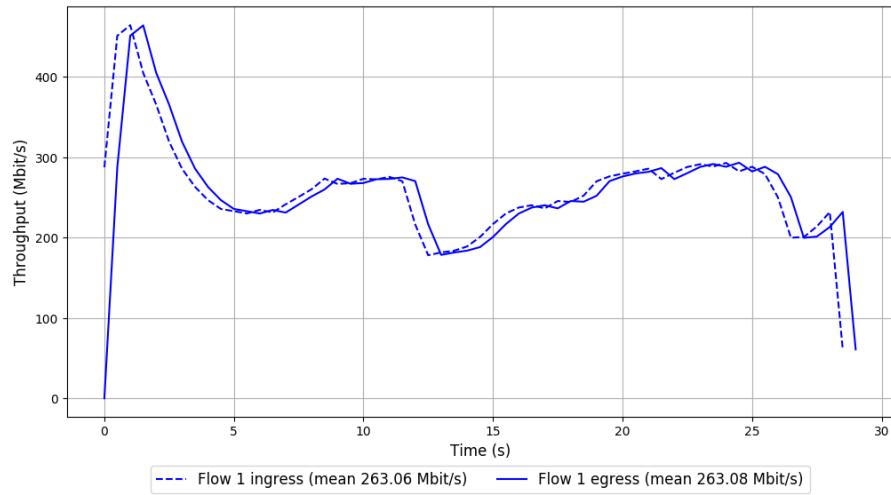


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 23:01:09
End at: 2019-01-21 23:01:39
Local clock offset: 3.431 ms
Remote clock offset: -3.988 ms

# Below is generated by plot.py at 2019-01-22 00:14:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 263.08 Mbit/s
95th percentile per-packet one-way delay: 0.954 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 263.08 Mbit/s
95th percentile per-packet one-way delay: 0.954 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesT — Data Link

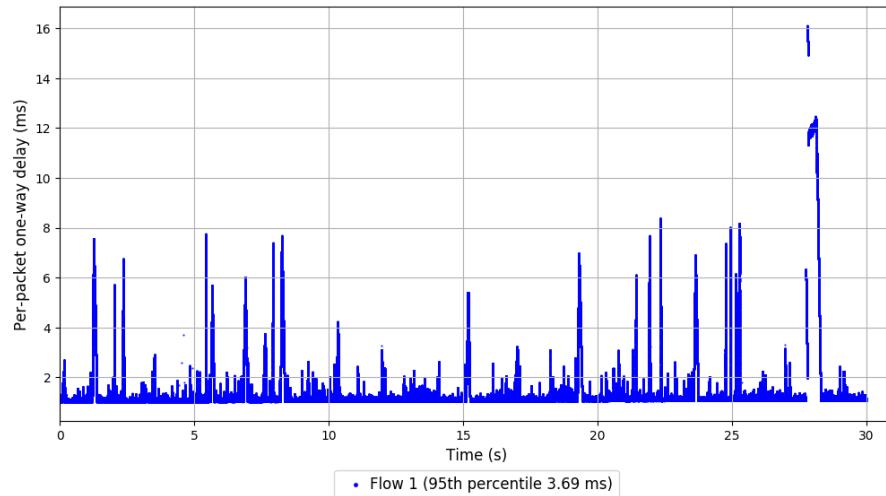
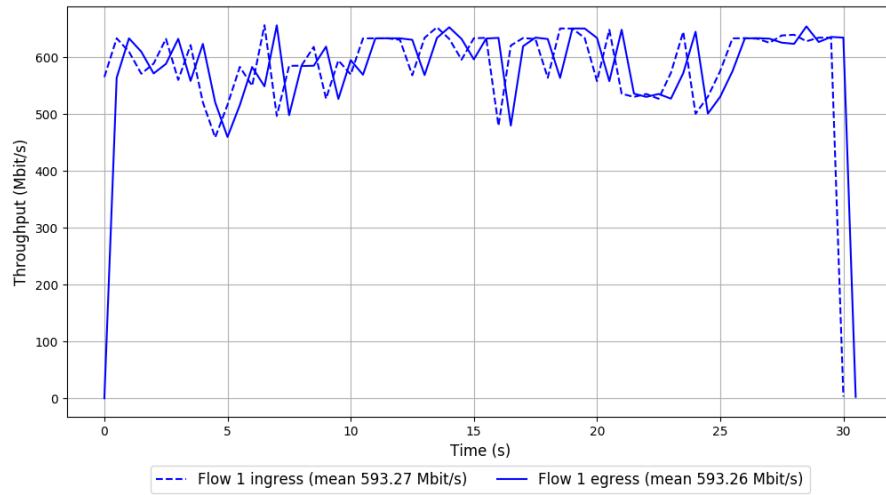


```
Run 1: Statistics of LEDBAT

Start at: 2019-01-21 21:10:19
End at: 2019-01-21 21:10:49
Local clock offset: 2.927 ms
Remote clock offset: 2.283 ms

# Below is generated by plot.py at 2019-01-22 00:18:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.26 Mbit/s
95th percentile per-packet one-way delay: 3.695 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 593.26 Mbit/s
95th percentile per-packet one-way delay: 3.695 ms
Loss rate: 0.01%
```

Run 1: Report of LEDBAT — Data Link

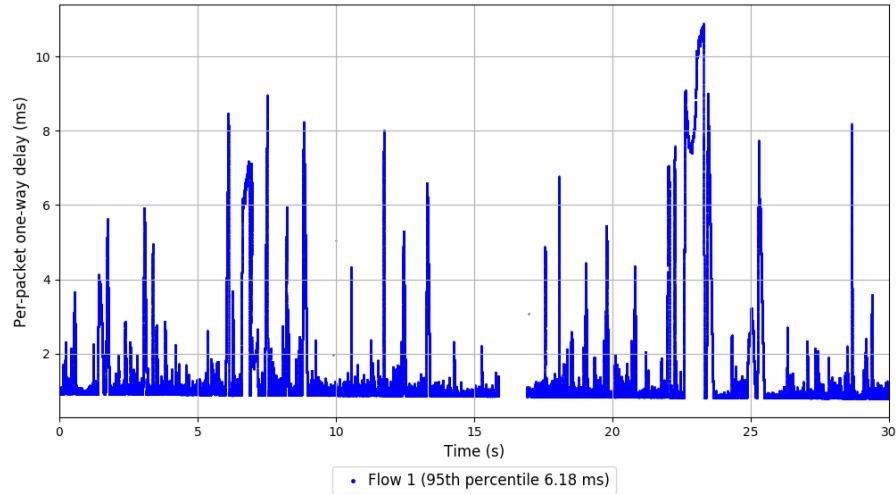
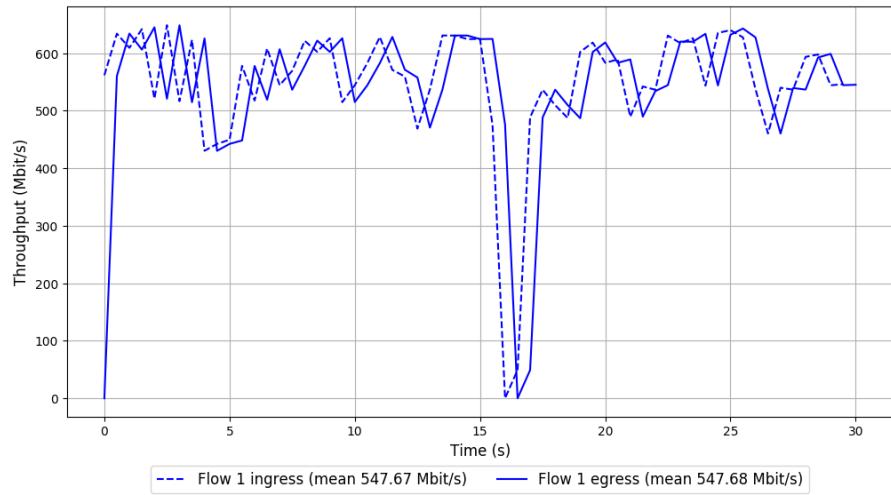


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-21 21:40:13
End at: 2019-01-21 21:40:43
Local clock offset: 2.865 ms
Remote clock offset: 1.955 ms

# Below is generated by plot.py at 2019-01-22 00:18:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 547.68 Mbit/s
95th percentile per-packet one-way delay: 6.183 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 547.68 Mbit/s
95th percentile per-packet one-way delay: 6.183 ms
Loss rate: 0.01%
```

Run 2: Report of LEDBAT — Data Link

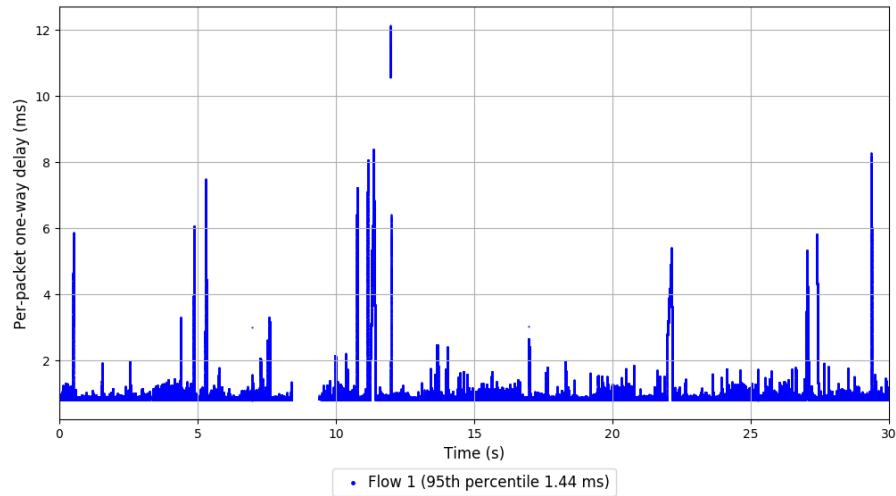
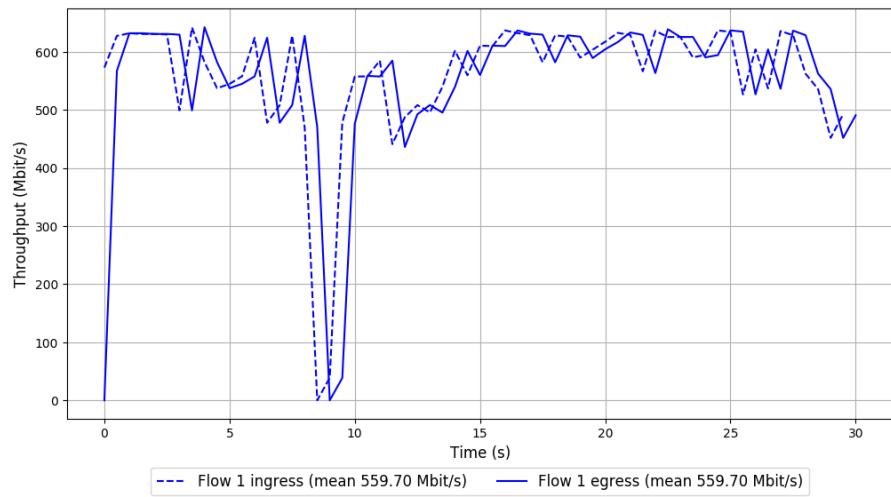


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-21 22:09:41
End at: 2019-01-21 22:10:11
Local clock offset: 2.842 ms
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2019-01-22 00:18:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 559.70 Mbit/s
95th percentile per-packet one-way delay: 1.440 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 559.70 Mbit/s
95th percentile per-packet one-way delay: 1.440 ms
Loss rate: 0.01%
```

Run 3: Report of LEDBAT — Data Link

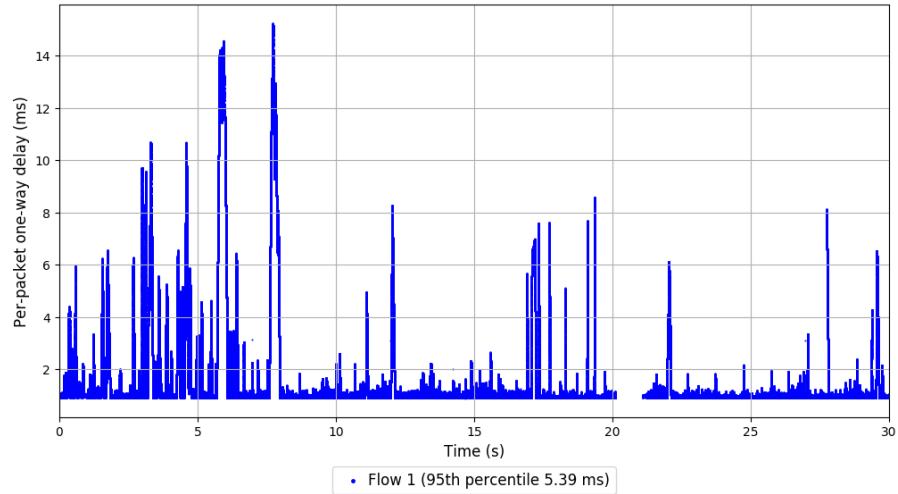
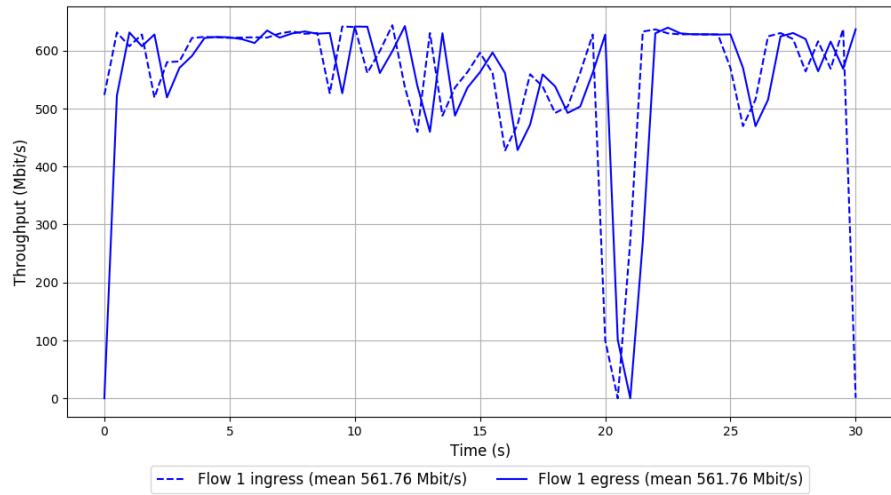


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-21 22:39:28
End at: 2019-01-21 22:39:58
Local clock offset: 3.279 ms
Remote clock offset: -0.557 ms

# Below is generated by plot.py at 2019-01-22 00:20:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 561.76 Mbit/s
95th percentile per-packet one-way delay: 5.395 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 561.76 Mbit/s
95th percentile per-packet one-way delay: 5.395 ms
Loss rate: 0.01%
```

Run 4: Report of LEDBAT — Data Link

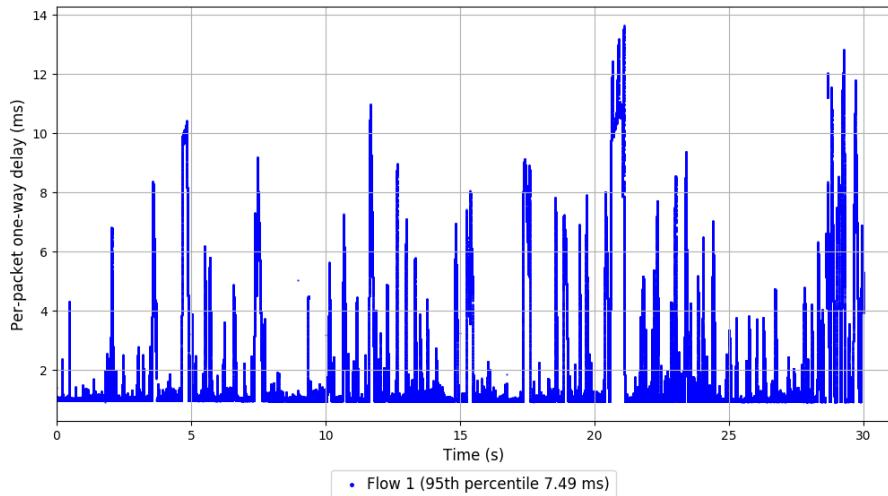
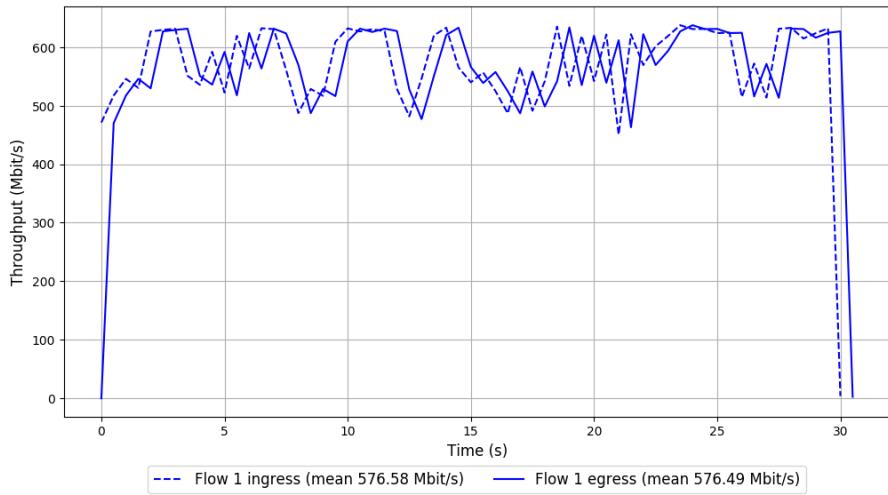


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-21 23:08:45
End at: 2019-01-21 23:09:15
Local clock offset: 3.498 ms
Remote clock offset: -4.702 ms

# Below is generated by plot.py at 2019-01-22 00:20:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 576.49 Mbit/s
95th percentile per-packet one-way delay: 7.489 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 576.49 Mbit/s
95th percentile per-packet one-way delay: 7.489 ms
Loss rate: 0.02%
```

Run 5: Report of LEDBAT — Data Link

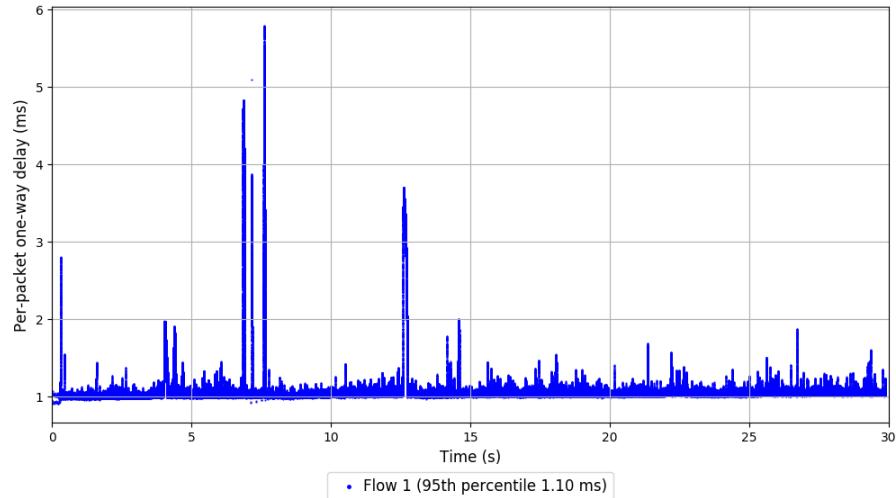
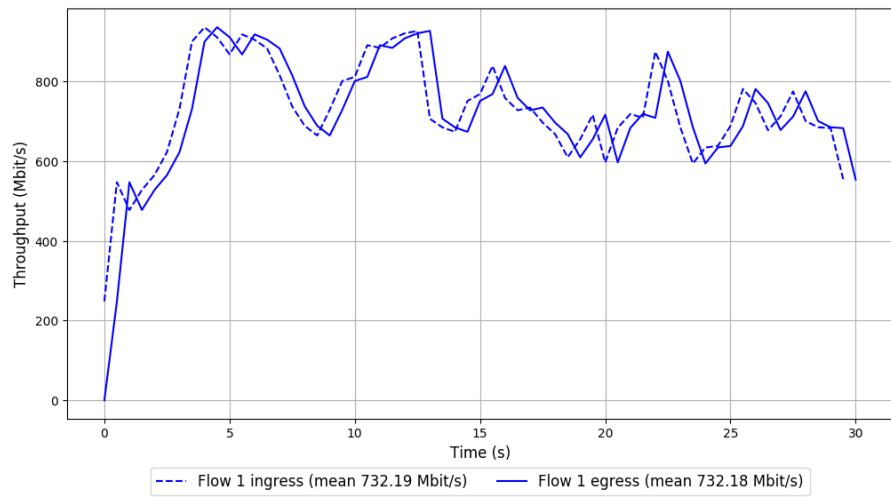


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-21 21:29:46
End at: 2019-01-21 21:30:16
Local clock offset: 2.898 ms
Remote clock offset: 4.323 ms

# Below is generated by plot.py at 2019-01-22 00:21:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 732.18 Mbit/s
95th percentile per-packet one-way delay: 1.100 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 732.18 Mbit/s
95th percentile per-packet one-way delay: 1.100 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Allegro — Data Link

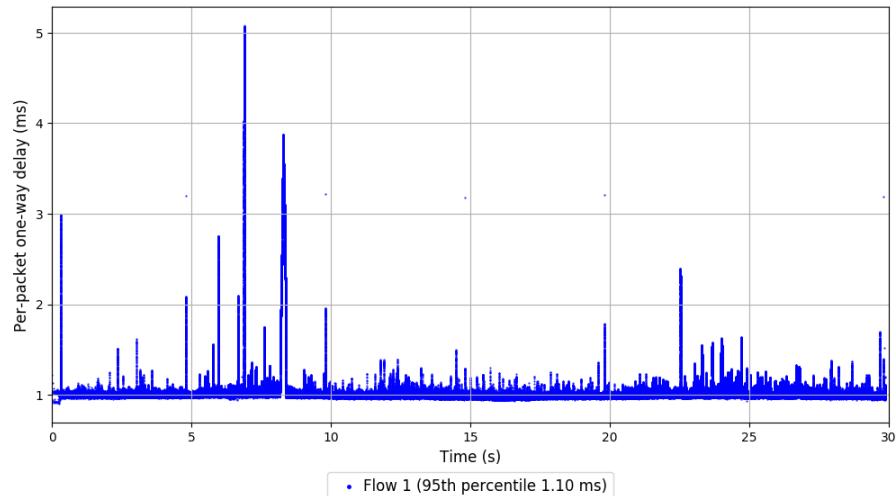
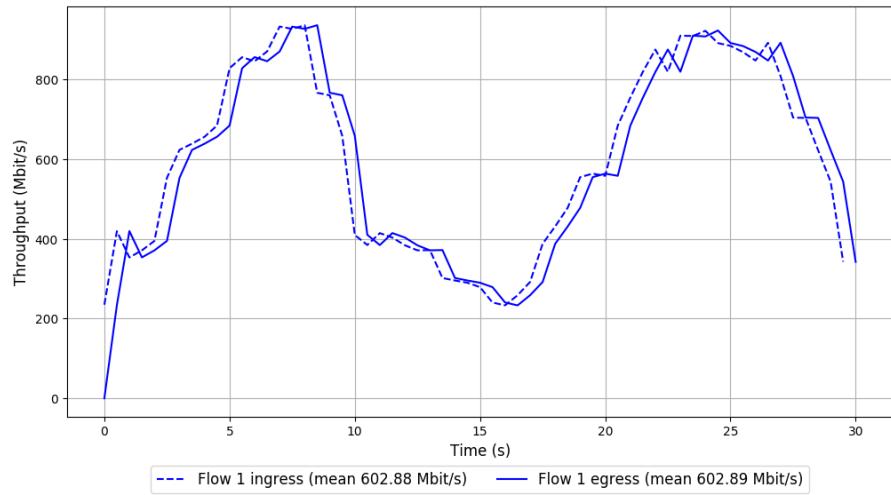


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-21 21:59:17
End at: 2019-01-21 21:59:47
Local clock offset: 2.851 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-01-22 00:21:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 602.89 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 602.89 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Allegro — Data Link

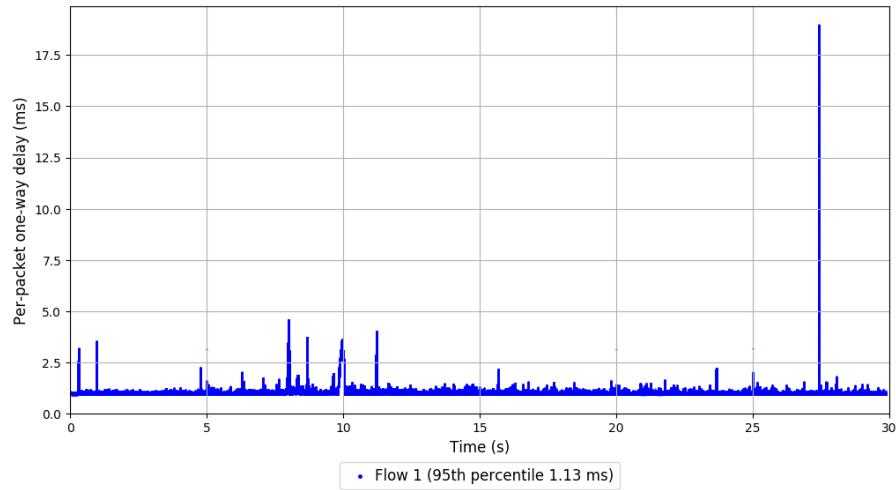
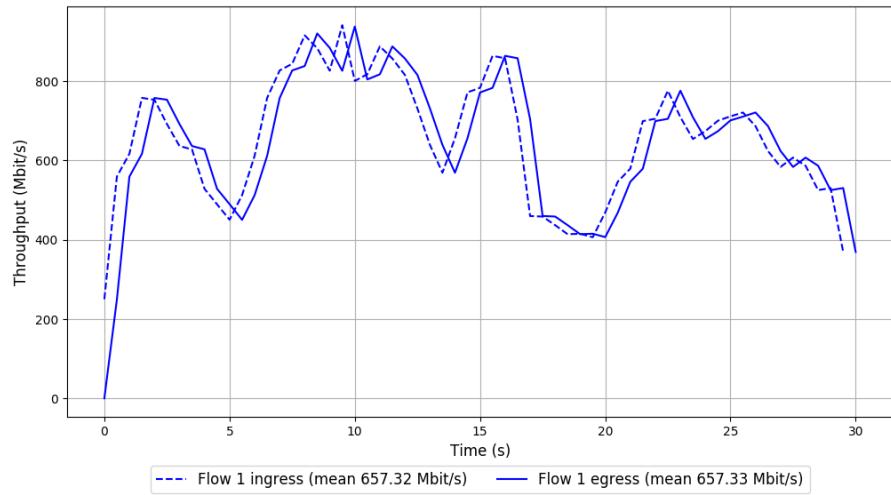


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-21 22:29:02
End at: 2019-01-21 22:29:32
Local clock offset: 3.173 ms
Remote clock offset: -0.513 ms

# Below is generated by plot.py at 2019-01-22 00:21:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 657.33 Mbit/s
95th percentile per-packet one-way delay: 1.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 657.33 Mbit/s
95th percentile per-packet one-way delay: 1.126 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Allegro — Data Link

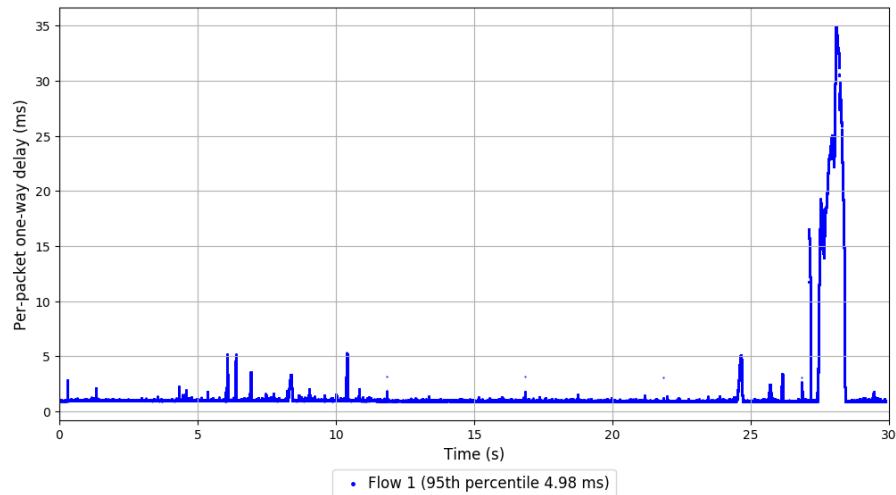
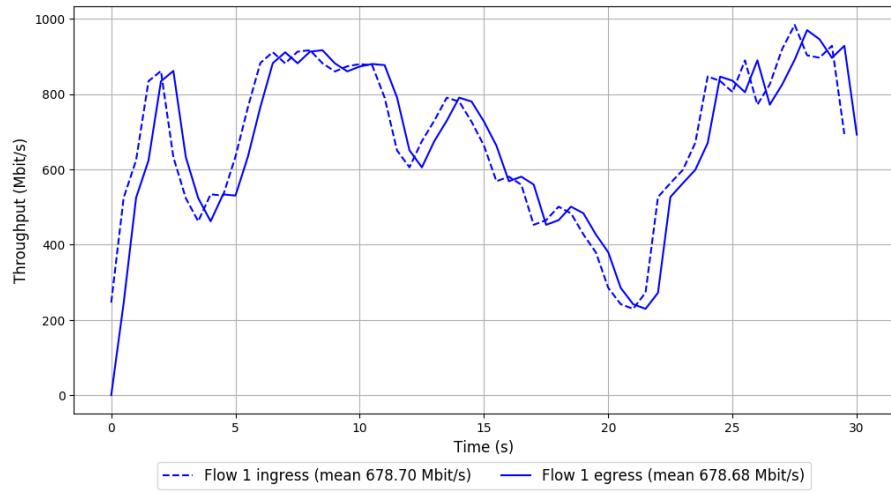


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-21 22:58:25
End at: 2019-01-21 22:58:55
Local clock offset: 3.424 ms
Remote clock offset: -3.793 ms

# Below is generated by plot.py at 2019-01-22 00:26:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 678.68 Mbit/s
95th percentile per-packet one-way delay: 4.978 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 678.68 Mbit/s
95th percentile per-packet one-way delay: 4.978 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Allegro — Data Link

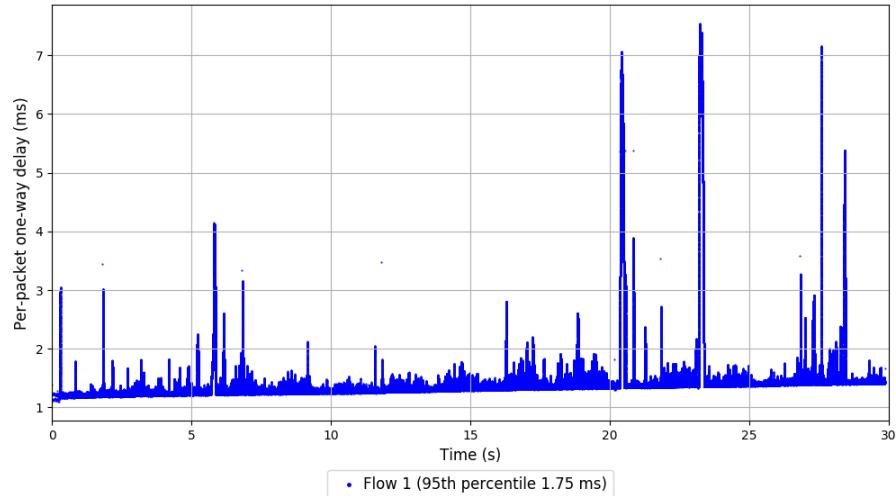
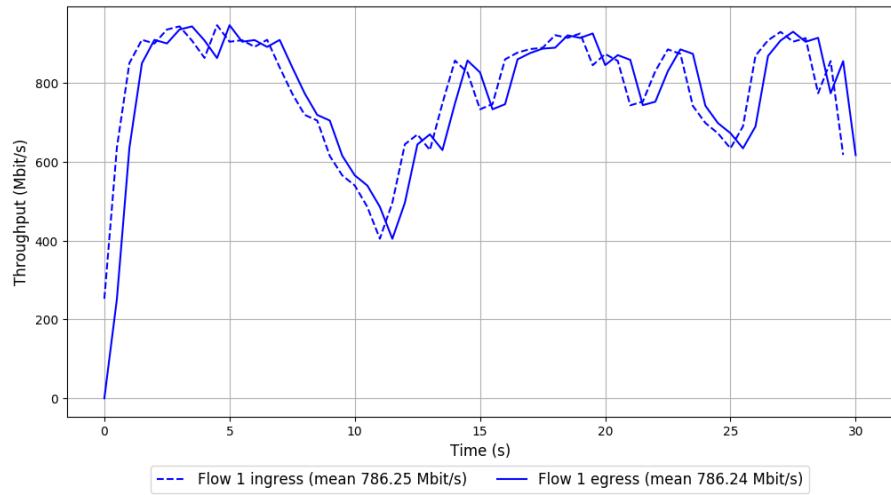


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-21 23:27:32
End at: 2019-01-21 23:28:02
Local clock offset: 0.719 ms
Remote clock offset: 1.401 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 786.24 Mbit/s
95th percentile per-packet one-way delay: 1.750 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 786.24 Mbit/s
95th percentile per-packet one-way delay: 1.750 ms
Loss rate: 0.01%
```

Run 5: Report of PCC-Allegro — Data Link

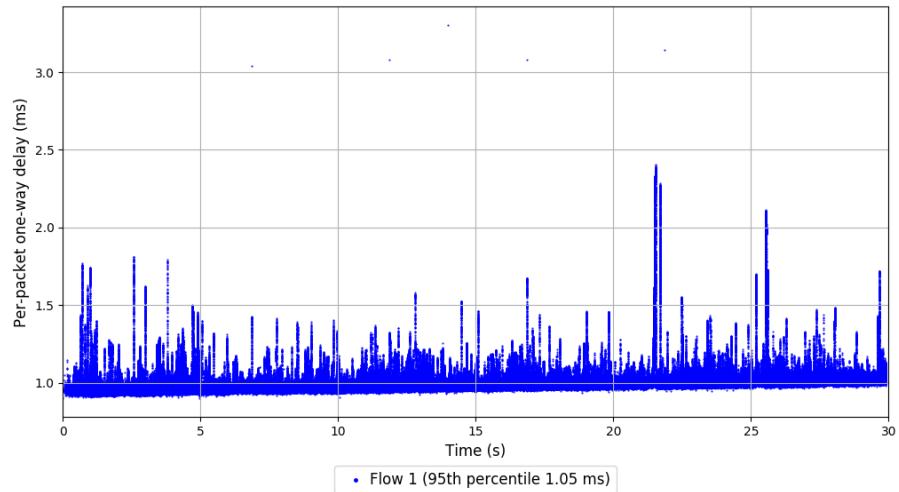
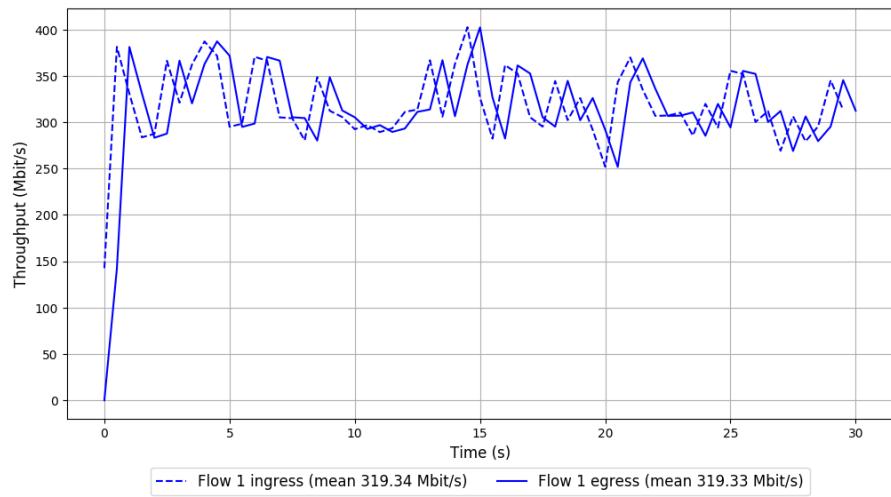


```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-21 21:11:56
End at: 2019-01-21 21:12:26
Local clock offset: 2.915 ms
Remote clock offset: 2.608 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.33 Mbit/s
95th percentile per-packet one-way delay: 1.047 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 319.33 Mbit/s
95th percentile per-packet one-way delay: 1.047 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Expr — Data Link

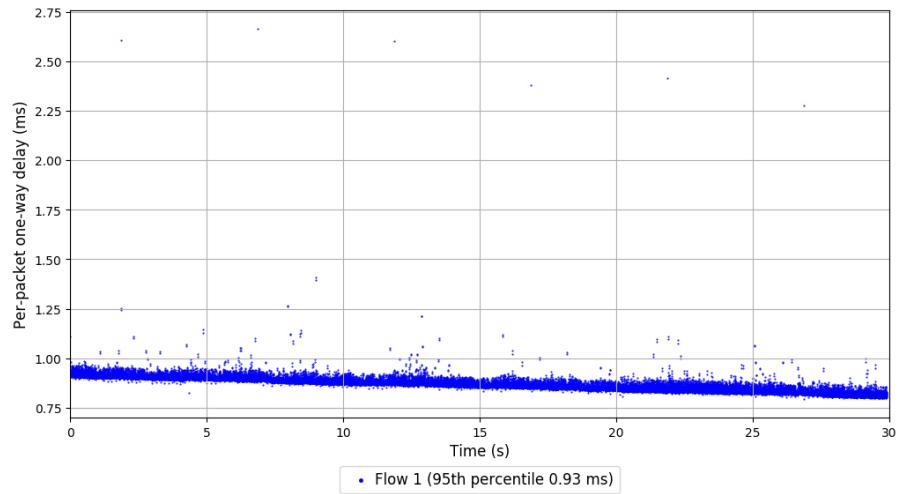
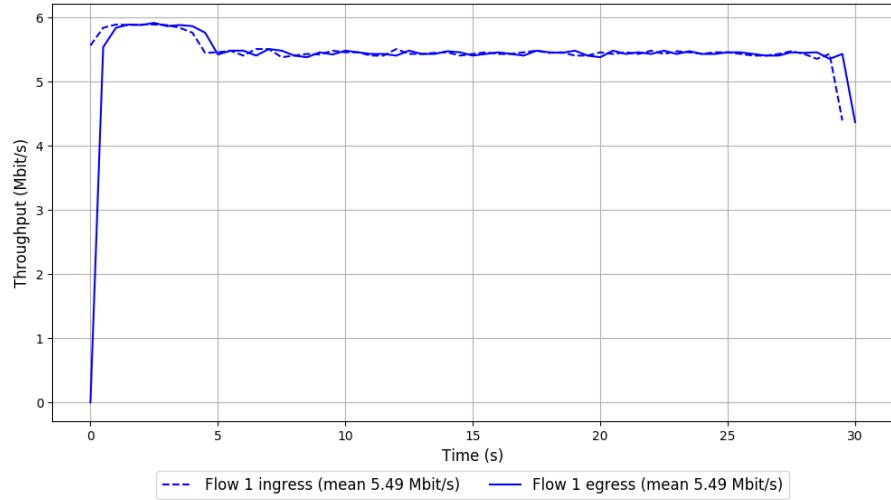


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-21 21:41:49
End at: 2019-01-21 21:42:19
Local clock offset: 2.867 ms
Remote clock offset: 1.596 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.49 Mbit/s
95th percentile per-packet one-way delay: 0.926 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 5.49 Mbit/s
95th percentile per-packet one-way delay: 0.926 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Expr — Data Link

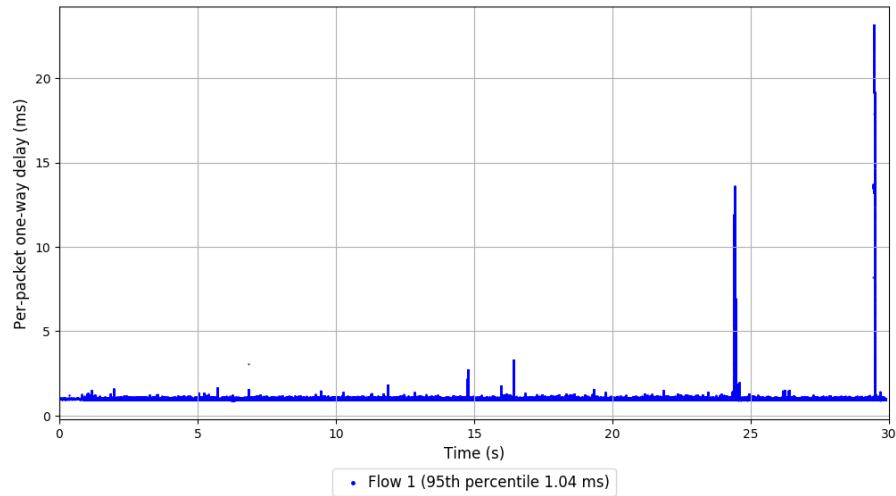
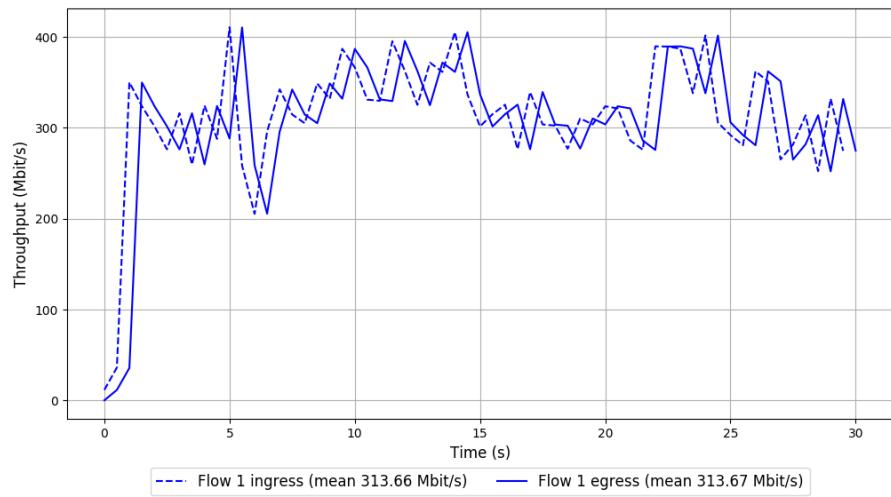


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-21 22:11:17
End at: 2019-01-21 22:11:47
Local clock offset: 2.838 ms
Remote clock offset: -0.375 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 313.67 Mbit/s
95th percentile per-packet one-way delay: 1.042 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 313.67 Mbit/s
95th percentile per-packet one-way delay: 1.042 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Expr — Data Link

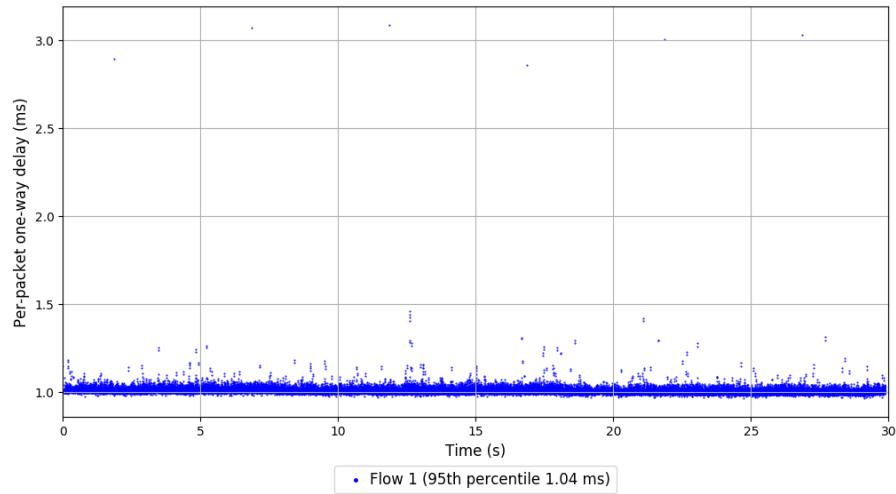
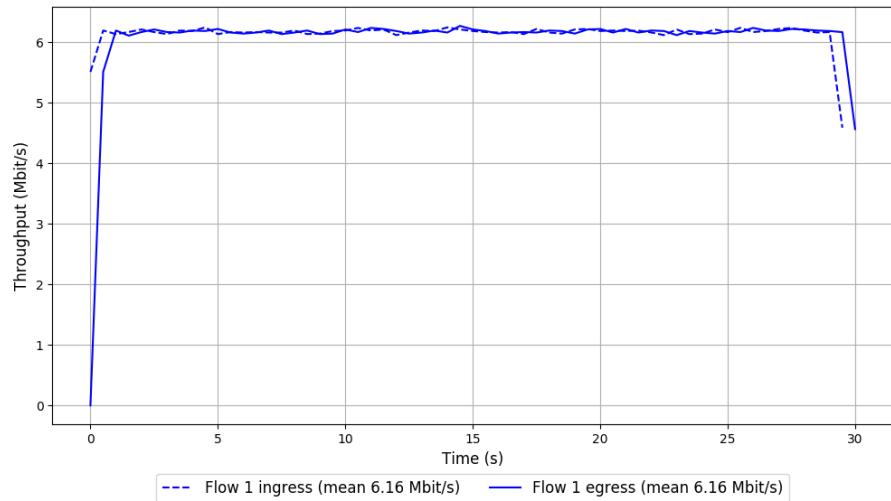


```
Run 4: Statistics of PCC-Expr
```

```
Start at: 2019-01-21 22:41:04
End at: 2019-01-21 22:41:34
Local clock offset: 3.307 ms
Remote clock offset: -0.615 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.16 Mbit/s
95th percentile per-packet one-way delay: 1.041 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 6.16 Mbit/s
95th percentile per-packet one-way delay: 1.041 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Expr — Data Link

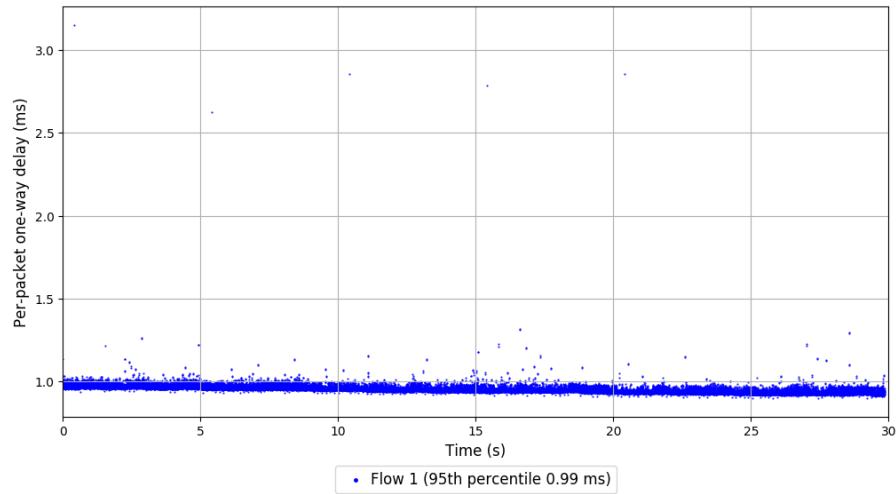
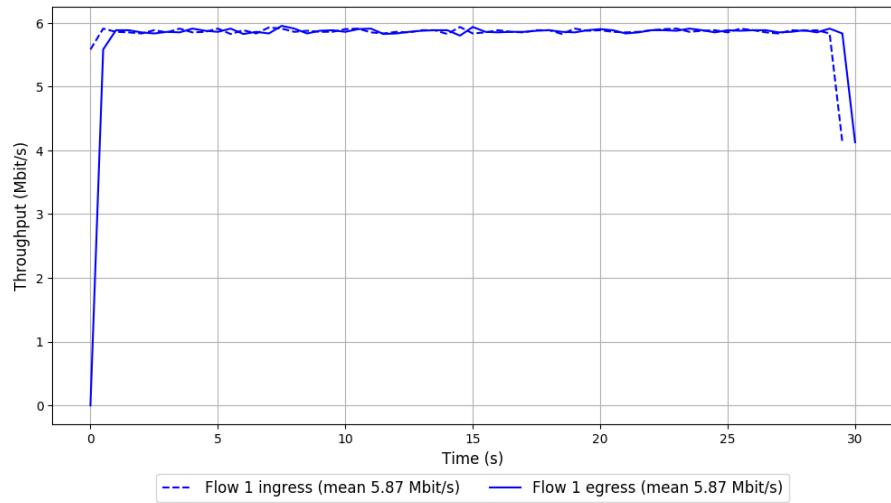


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-21 23:10:22
End at: 2019-01-21 23:10:52
Local clock offset: 3.492 ms
Remote clock offset: -4.828 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.87 Mbit/s
95th percentile per-packet one-way delay: 0.991 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.87 Mbit/s
95th percentile per-packet one-way delay: 0.991 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Expr — Data Link

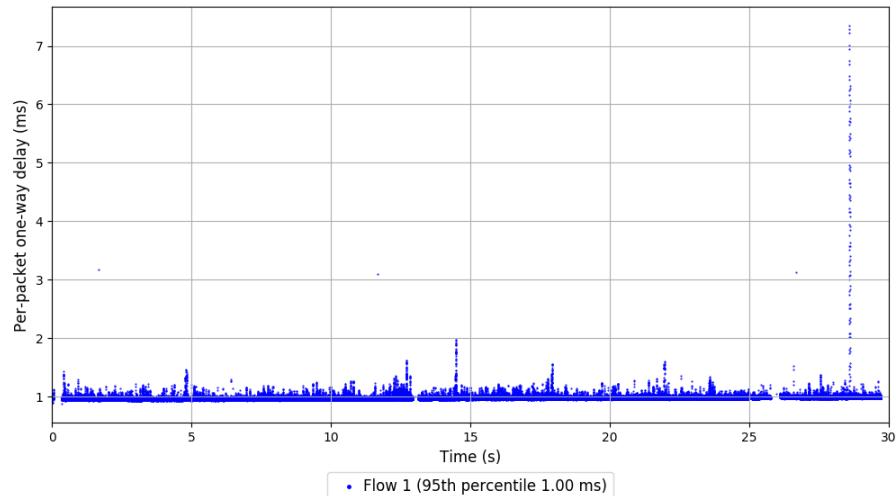
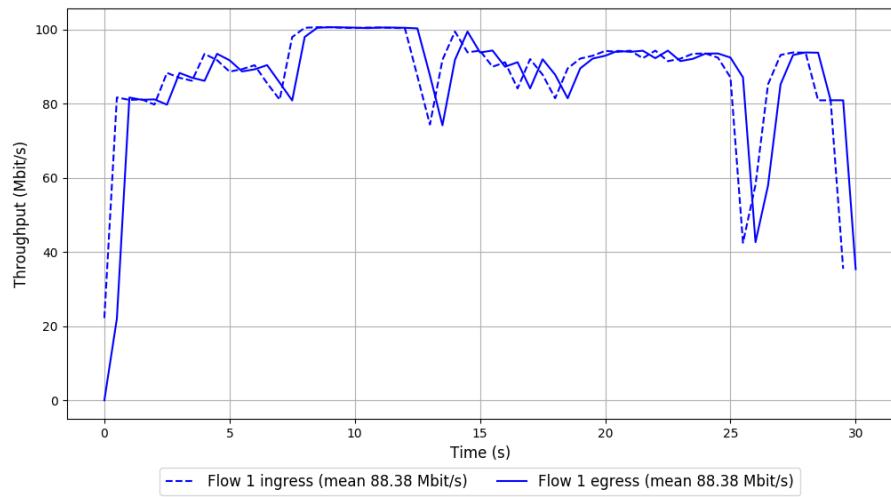


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-01-21 21:31:16
End at: 2019-01-21 21:31:46
Local clock offset: 2.889 ms
Remote clock offset: 4.491 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.38 Mbit/s
95th percentile per-packet one-way delay: 1.000 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.38 Mbit/s
95th percentile per-packet one-way delay: 1.000 ms
Loss rate: 0.01%
```

Run 1: Report of QUIC Cubic — Data Link

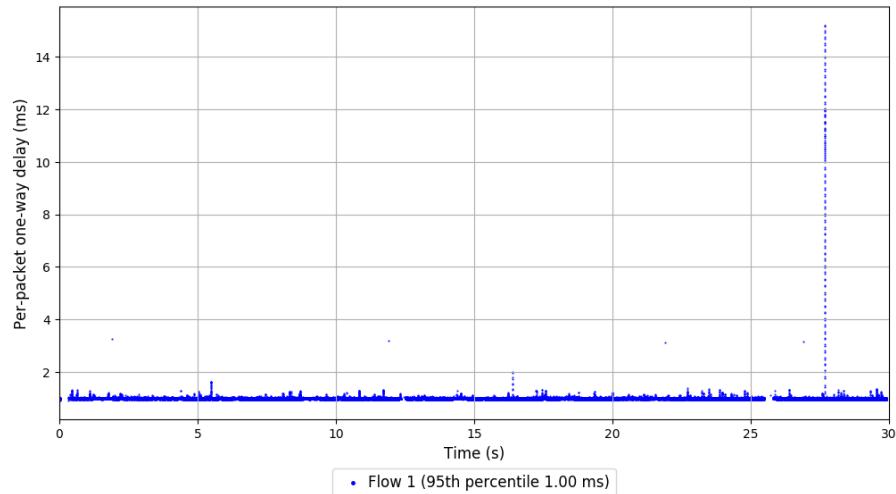
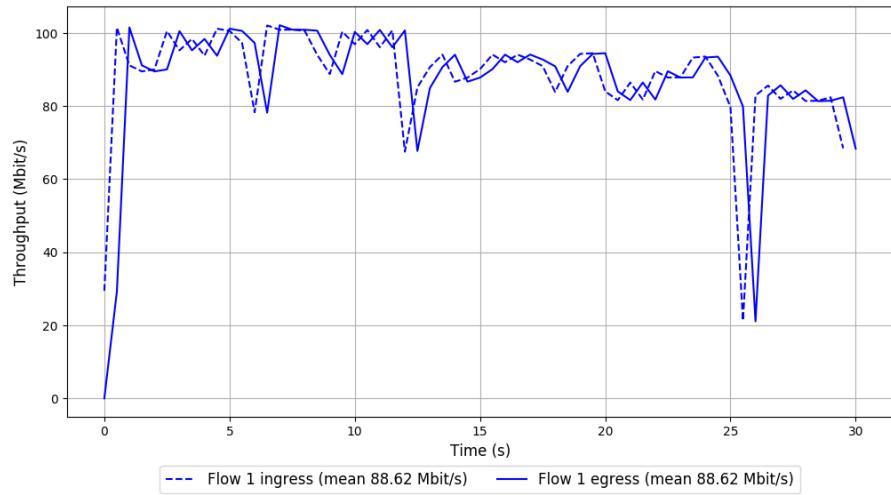


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-21 22:00:44
End at: 2019-01-21 22:01:14
Local clock offset: 2.844 ms
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.62 Mbit/s
95th percentile per-packet one-way delay: 1.002 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.62 Mbit/s
95th percentile per-packet one-way delay: 1.002 ms
Loss rate: 0.01%
```

Run 2: Report of QUIC Cubic — Data Link

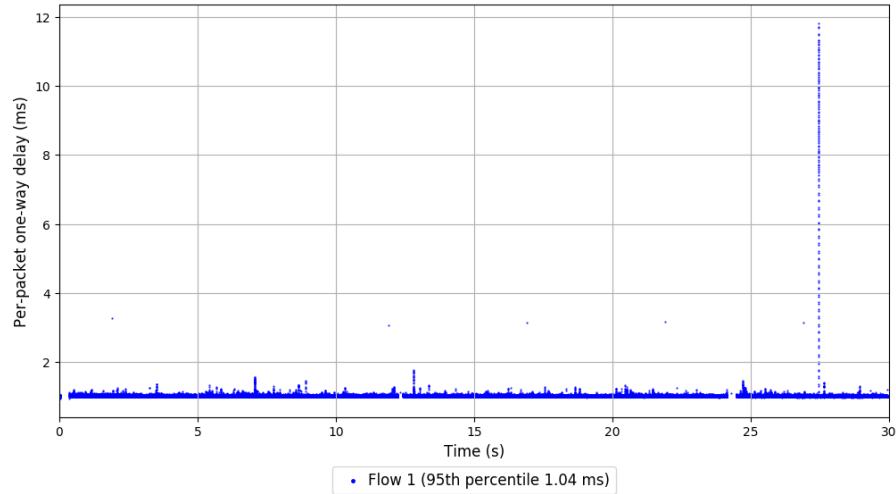
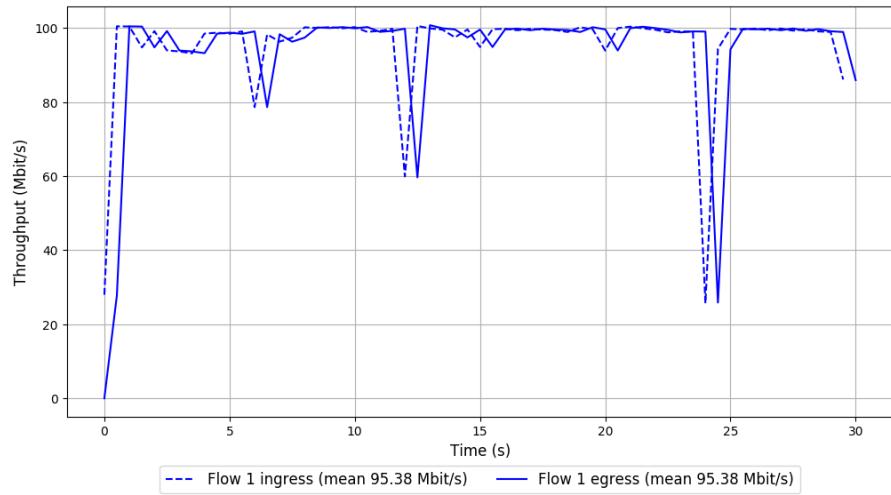


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-21 22:30:30
End at: 2019-01-21 22:31:00
Local clock offset: 3.194 ms
Remote clock offset: -0.53 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.38 Mbit/s
95th percentile per-packet one-way delay: 1.036 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.38 Mbit/s
95th percentile per-packet one-way delay: 1.036 ms
Loss rate: 0.01%
```

Run 3: Report of QUIC Cubic — Data Link

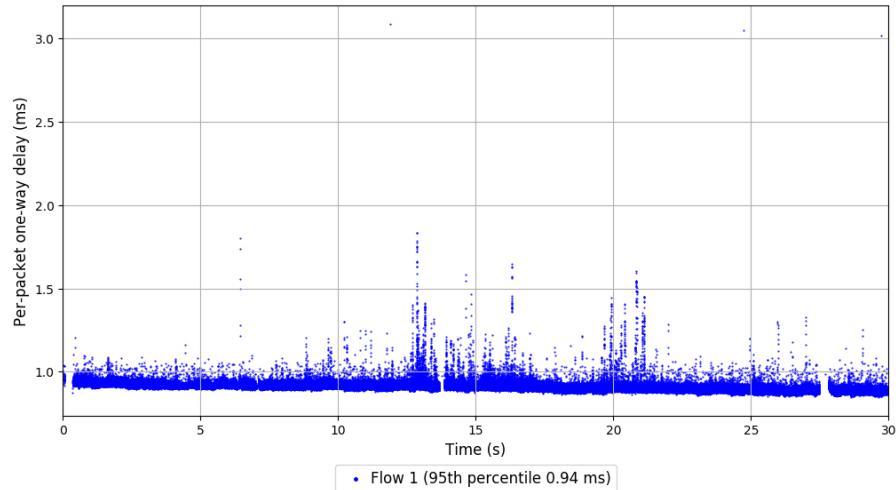
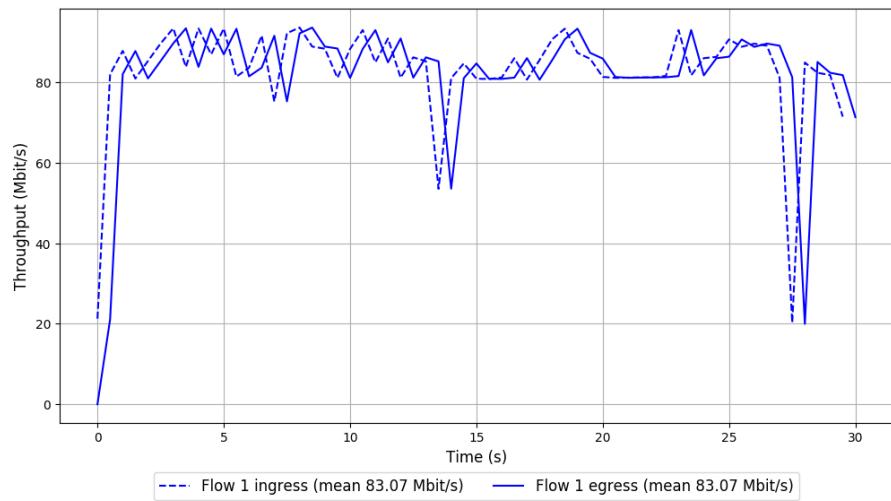


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-21 22:59:54
End at: 2019-01-21 23:00:24
Local clock offset: 3.435 ms
Remote clock offset: -3.885 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.07 Mbit/s
95th percentile per-packet one-way delay: 0.945 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 83.07 Mbit/s
95th percentile per-packet one-way delay: 0.945 ms
Loss rate: 0.01%
```

Run 4: Report of QUIC Cubic — Data Link

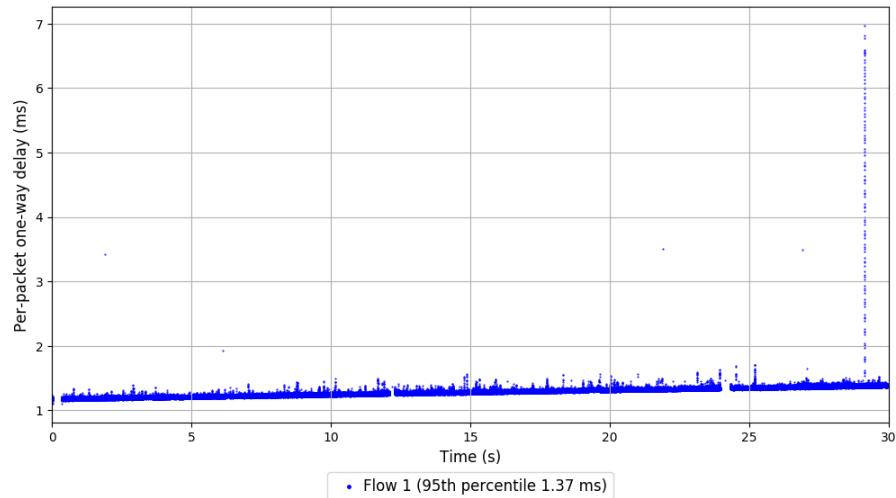
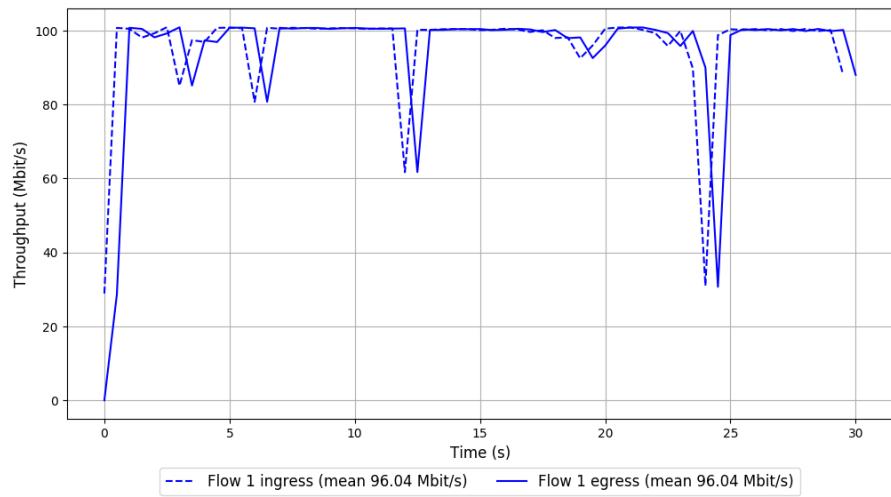


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-21 23:29:04
End at: 2019-01-21 23:29:34
Local clock offset: 0.404 ms
Remote clock offset: 1.803 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.04 Mbit/s
95th percentile per-packet one-way delay: 1.372 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.04 Mbit/s
95th percentile per-packet one-way delay: 1.372 ms
Loss rate: 0.01%
```

Run 5: Report of QUIC Cubic — Data Link

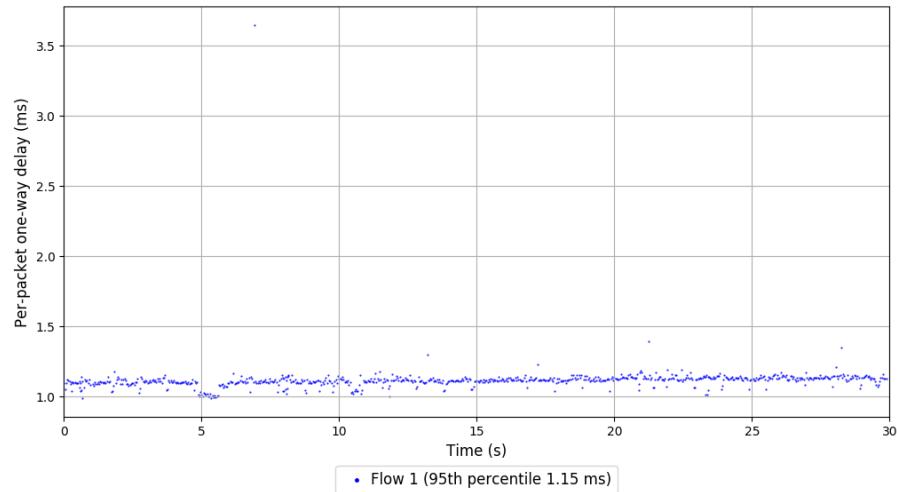
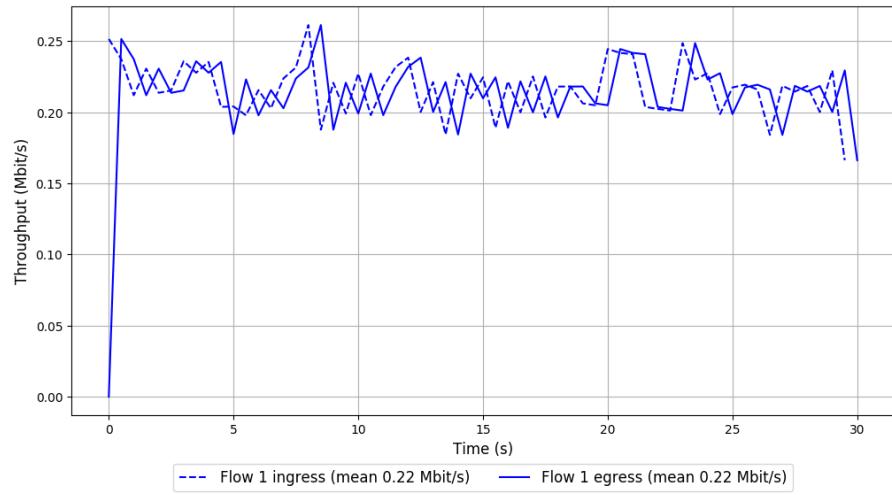


```
Run 1: Statistics of SCReAM

Start at: 2019-01-21 21:22:48
End at: 2019-01-21 21:23:18
Local clock offset: 2.906 ms
Remote clock offset: 3.79 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

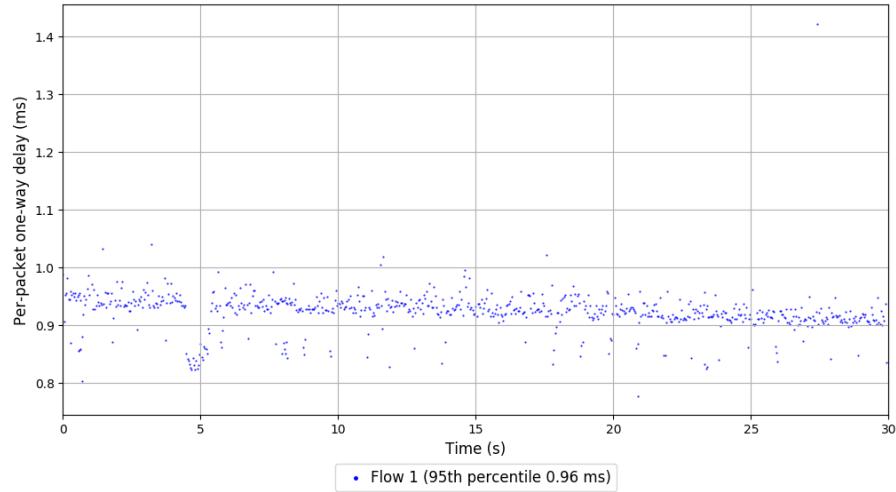
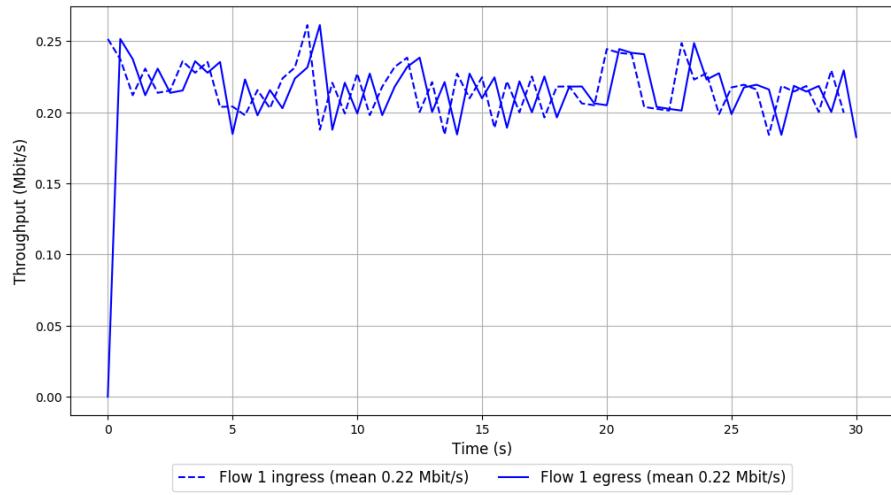


Run 2: Statistics of SCReAM

```
Start at: 2019-01-21 21:52:18
End at: 2019-01-21 21:52:48
Local clock offset: 2.802 ms
Remote clock offset: 0.31 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.960 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.960 ms
Loss rate: 0.13%
```

Run 2: Report of SCReAM — Data Link

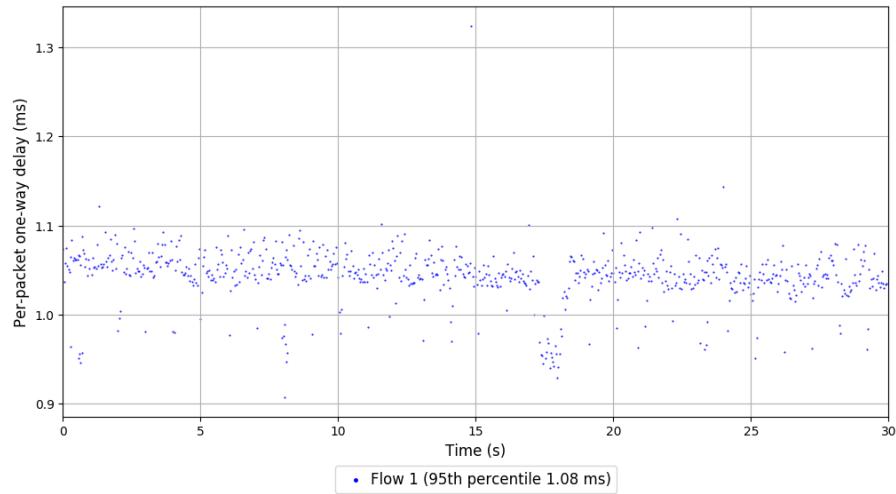
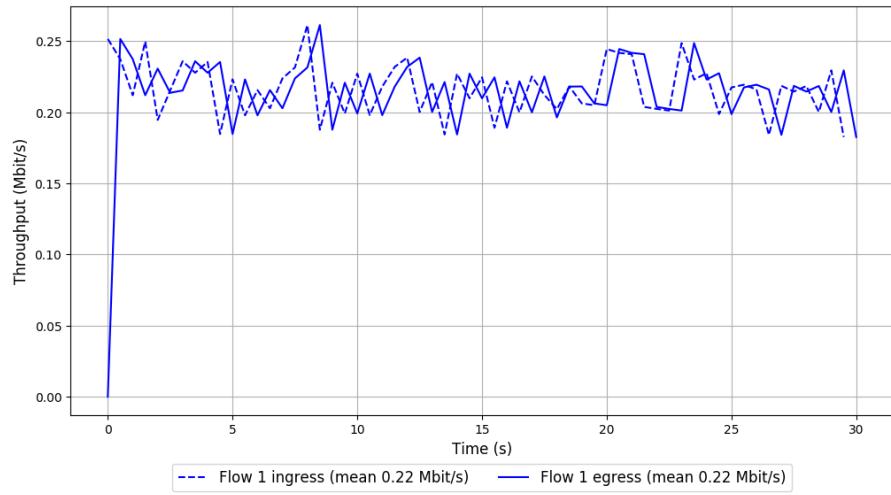


Run 3: Statistics of SCReAM

```
Start at: 2019-01-21 22:22:05
End at: 2019-01-21 22:22:35
Local clock offset: 2.998 ms
Remote clock offset: -0.429 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.082 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.082 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

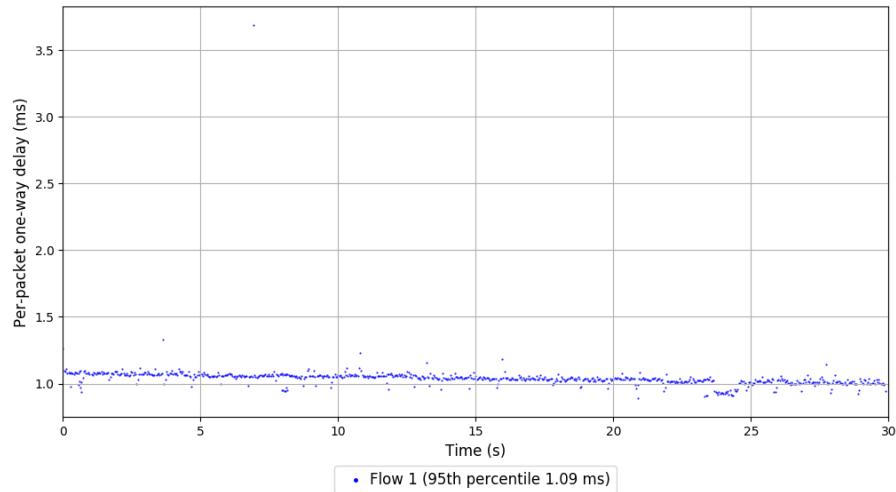
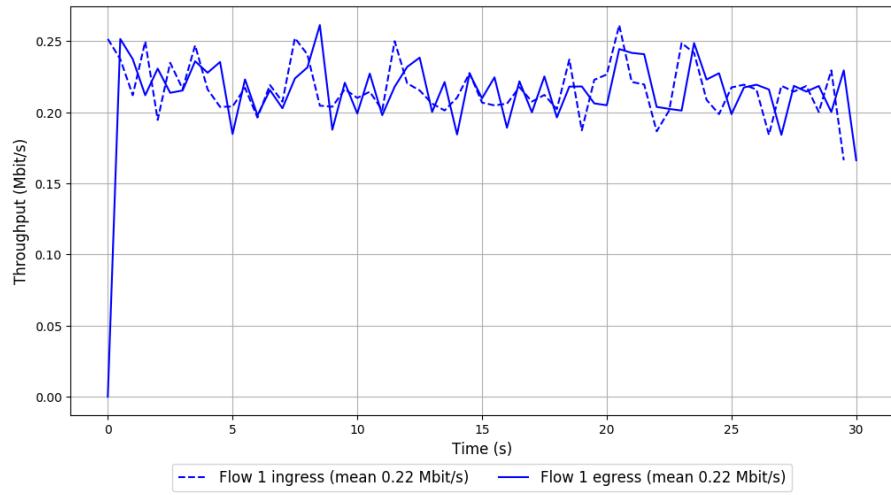


Run 4: Statistics of SCReAM

```
Start at: 2019-01-21 22:51:29
End at: 2019-01-21 22:51:59
Local clock offset: 3.378 ms
Remote clock offset: -2.914 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.088 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.088 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

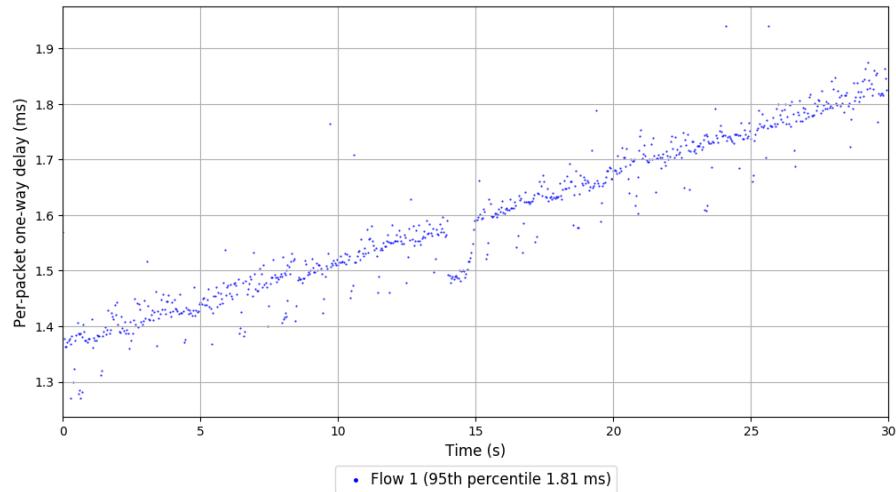
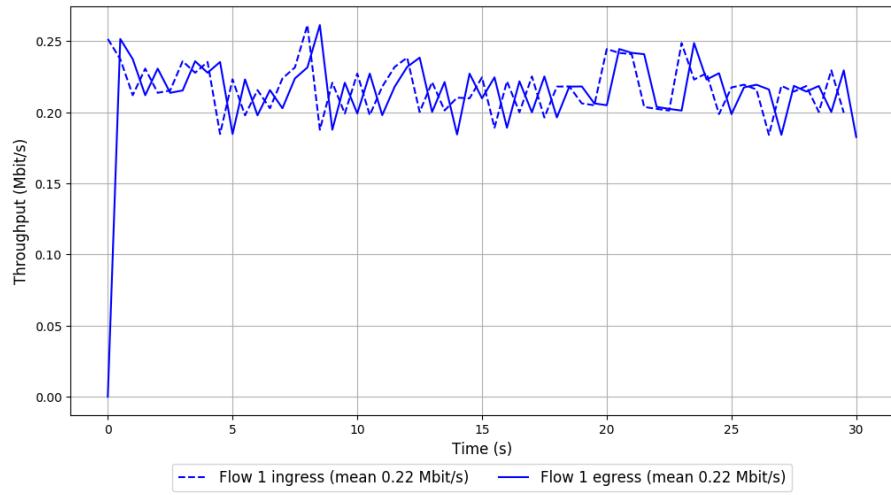


Run 5: Statistics of SCReAM

```
Start at: 2019-01-21 23:20:39
End at: 2019-01-21 23:21:09
Local clock offset: 2.711 ms
Remote clock offset: -1.475 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.813 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.813 ms
Loss rate: 0.13%
```

Run 5: Report of SCReAM — Data Link

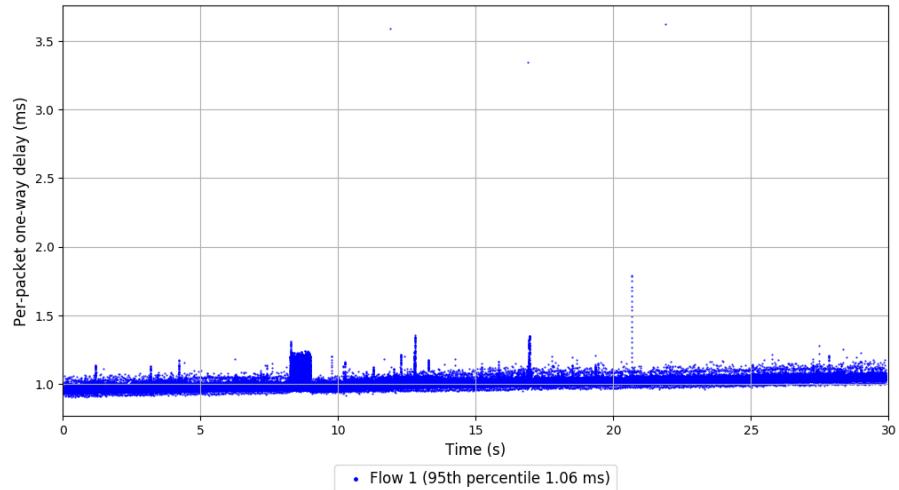
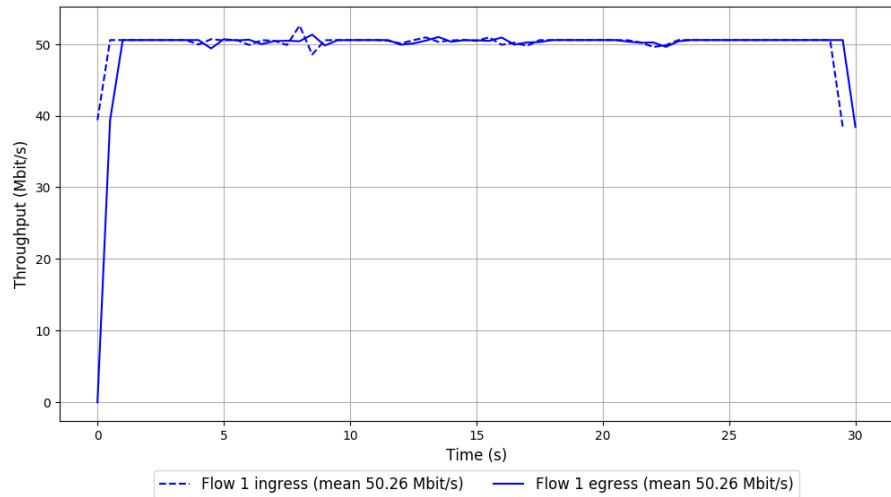


Run 1: Statistics of Sprout

```
Start at: 2019-01-21 21:07:45
End at: 2019-01-21 21:08:15
Local clock offset: 2.916 ms
Remote clock offset: 1.934 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

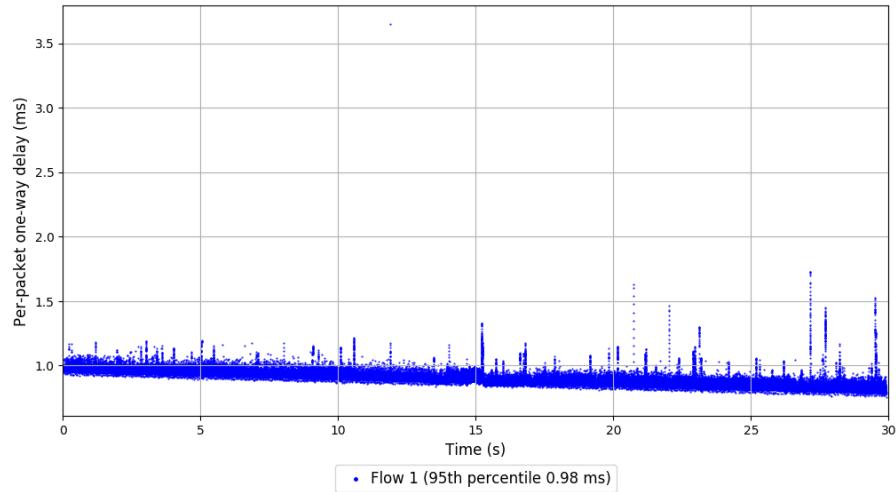
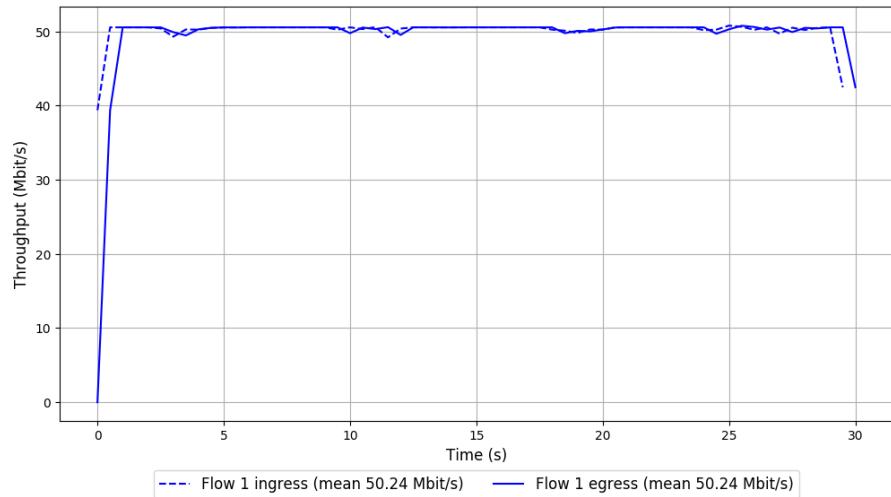


Run 2: Statistics of Sprout

```
Start at: 2019-01-21 21:37:38
End at: 2019-01-21 21:38:08
Local clock offset: 2.882 ms
Remote clock offset: 2.735 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 0.983 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 0.983 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

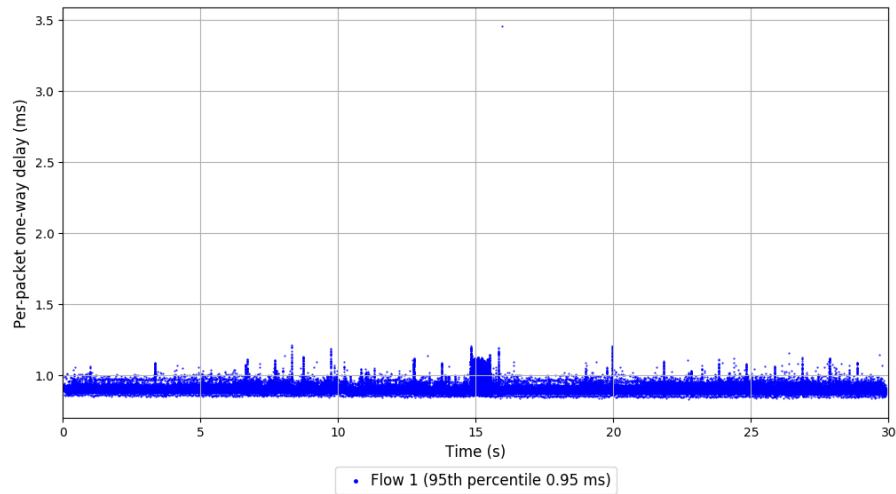
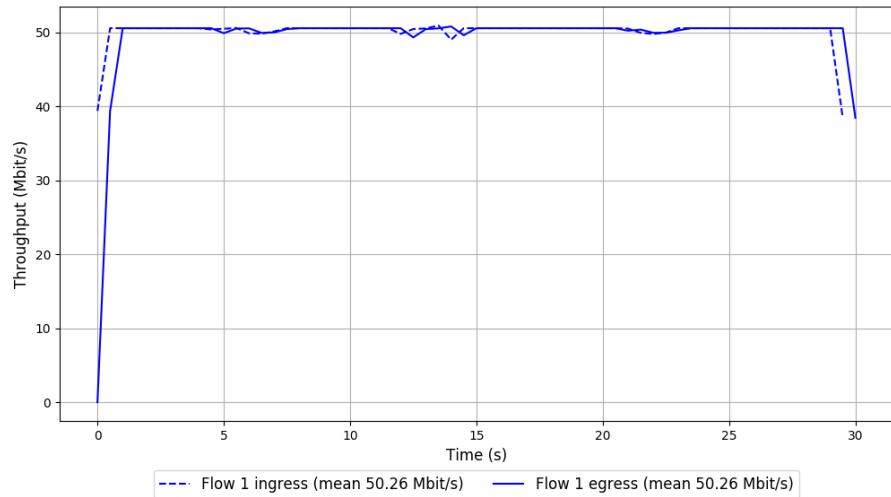


Run 3: Statistics of Sprout

```
Start at: 2019-01-21 22:07:08
End at: 2019-01-21 22:07:38
Local clock offset: 2.822 ms
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 0.946 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 0.946 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

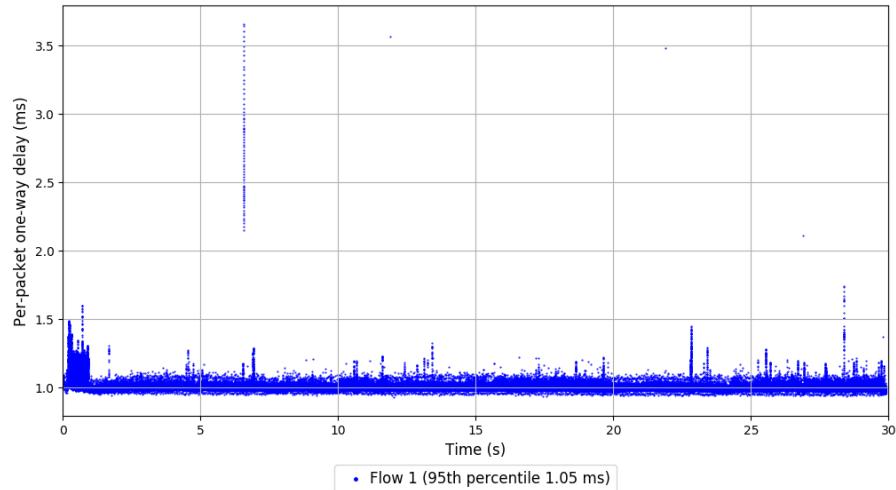
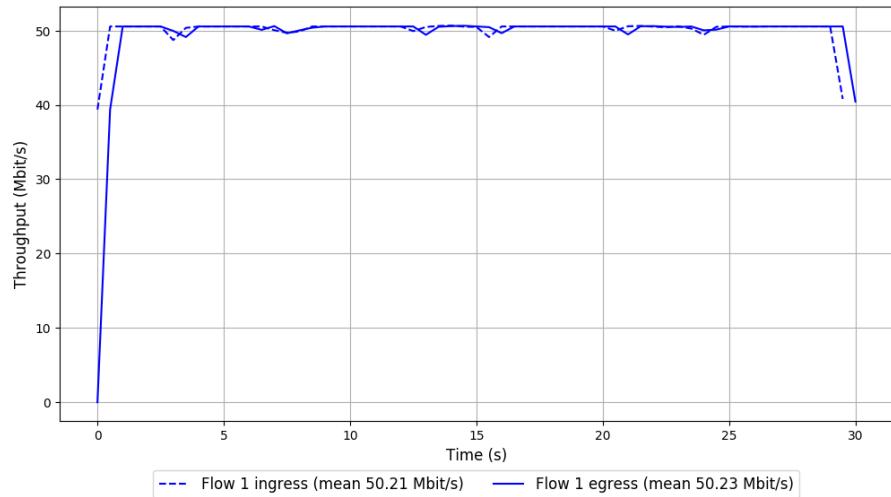


Run 4: Statistics of Sprout

```
Start at: 2019-01-21 22:36:52
End at: 2019-01-21 22:37:23
Local clock offset: 3.262 ms
Remote clock offset: -0.549 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 1.054 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 1.054 ms
Loss rate: 0.01%
```

Run 4: Report of Sprout — Data Link

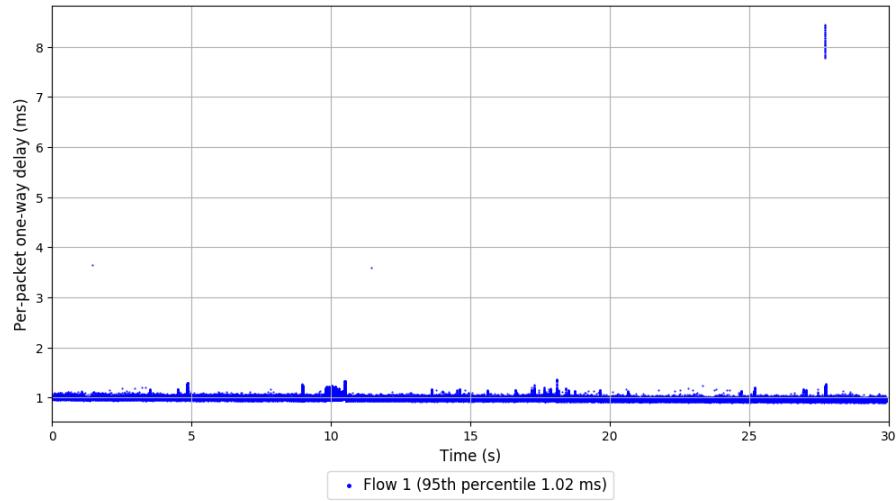
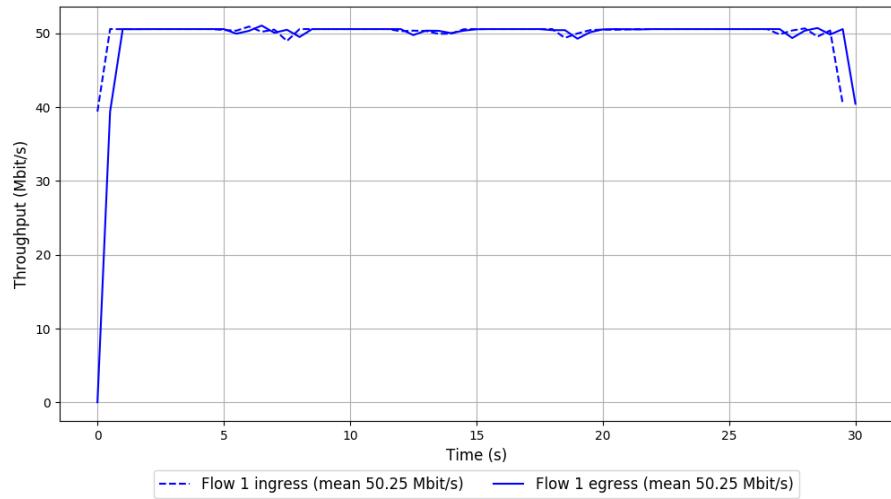


Run 5: Statistics of Sprout

```
Start at: 2019-01-21 23:06:13
End at: 2019-01-21 23:06:43
Local clock offset: 3.456 ms
Remote clock offset: -4.498 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 1.024 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 1.024 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

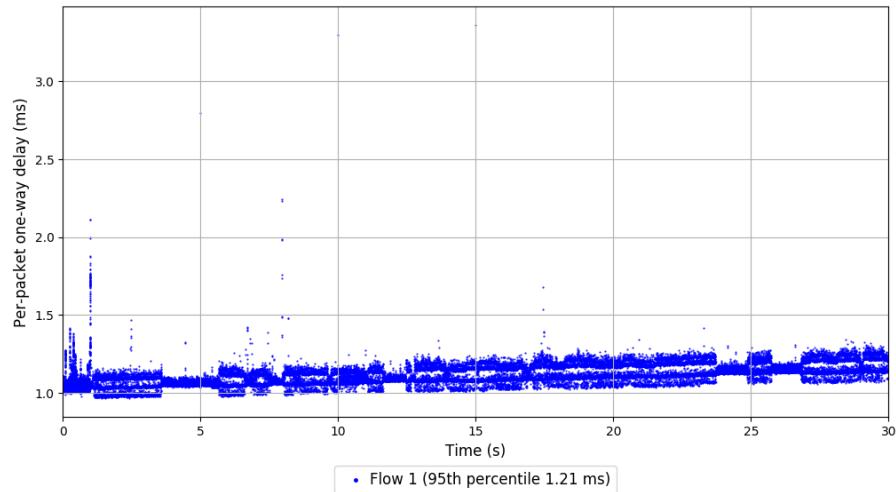
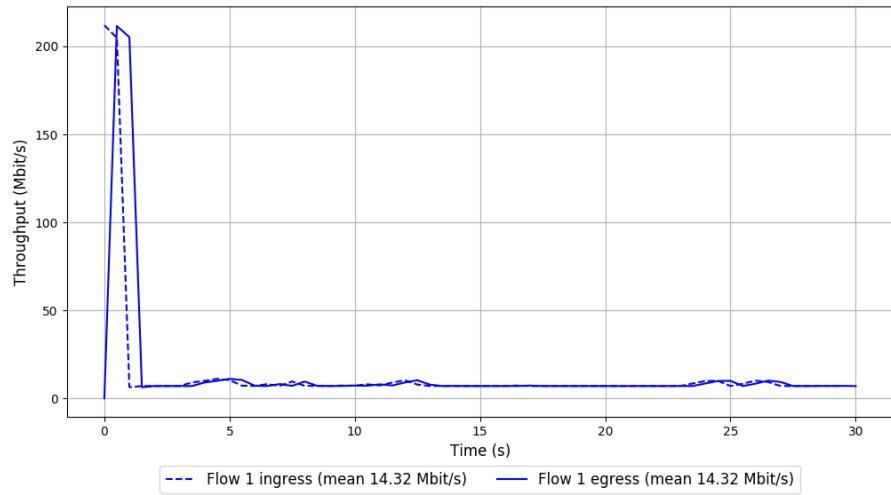


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-21 21:05:18
End at: 2019-01-21 21:05:48
Local clock offset: 2.897 ms
Remote clock offset: 1.286 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 0.00%
```

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

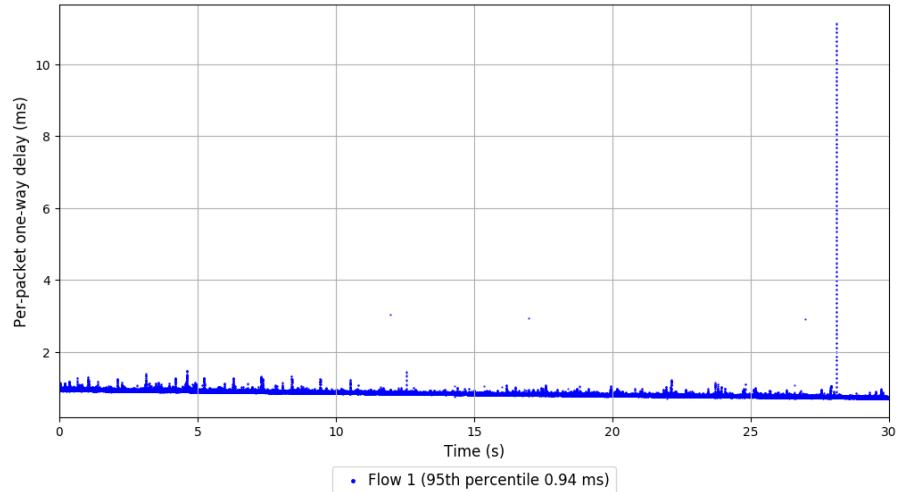
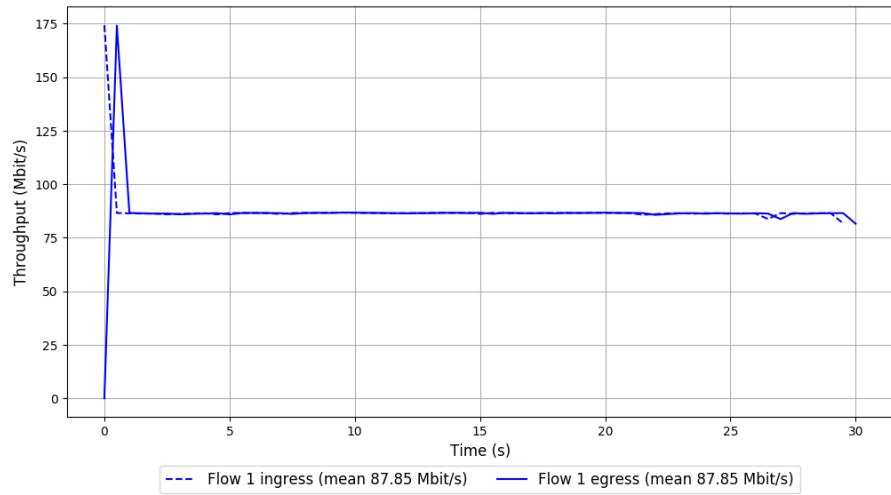


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-21 21:35:08
End at: 2019-01-21 21:35:38
Local clock offset: 2.893 ms
Remote clock offset: 3.745 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.85 Mbit/s
95th percentile per-packet one-way delay: 0.939 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 87.85 Mbit/s
95th percentile per-packet one-way delay: 0.939 ms
Loss rate: 0.01%
```

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

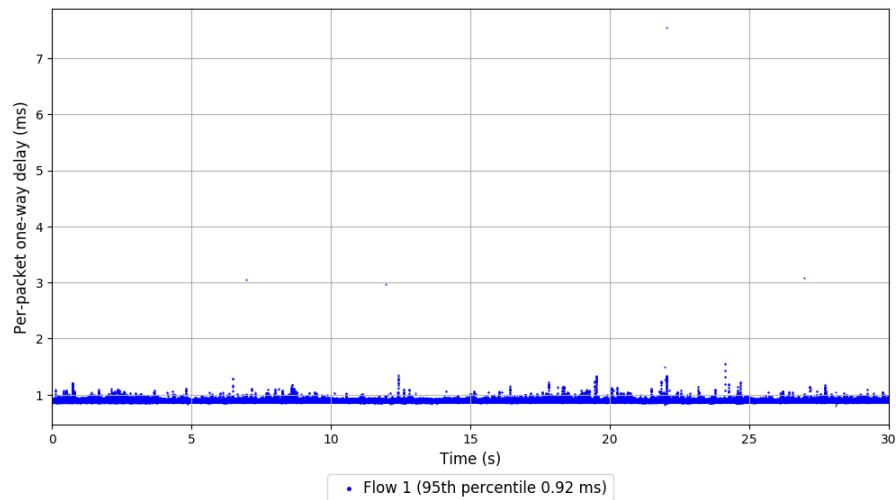
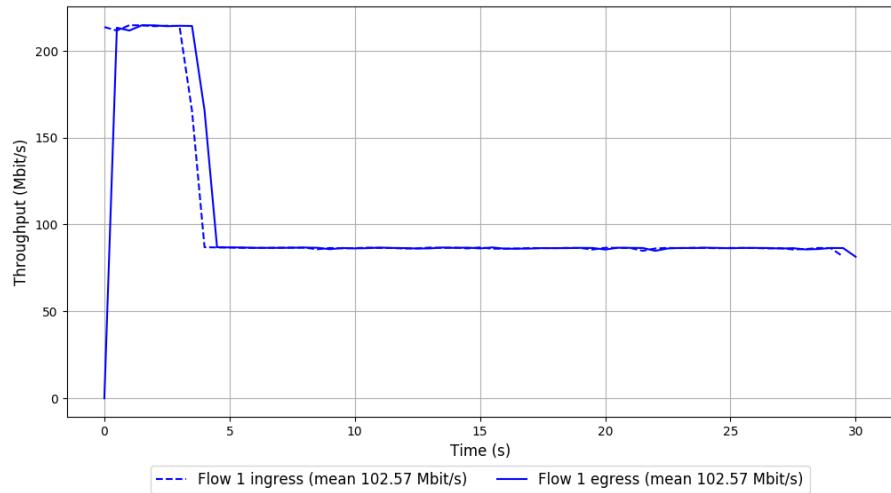


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-21 22:04:36
End at: 2019-01-21 22:05:06
Local clock offset: 2.85 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 102.57 Mbit/s
95th percentile per-packet one-way delay: 0.916 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 102.57 Mbit/s
95th percentile per-packet one-way delay: 0.916 ms
Loss rate: 0.00%
```

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

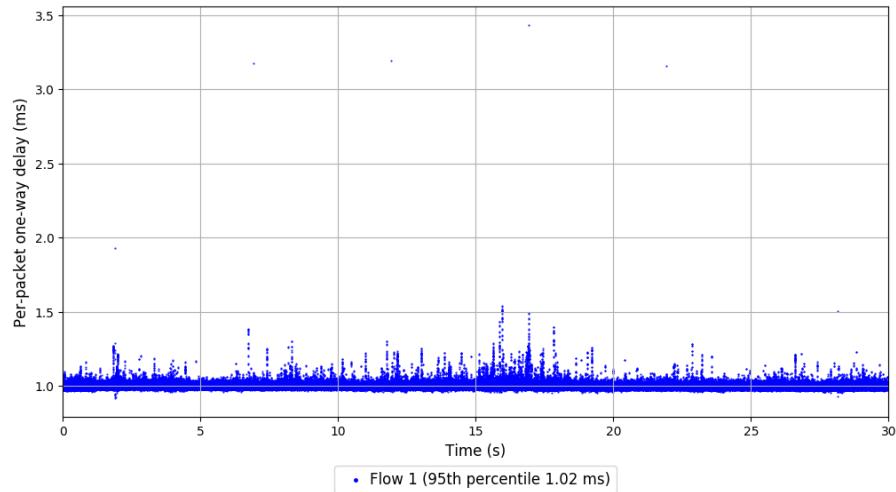
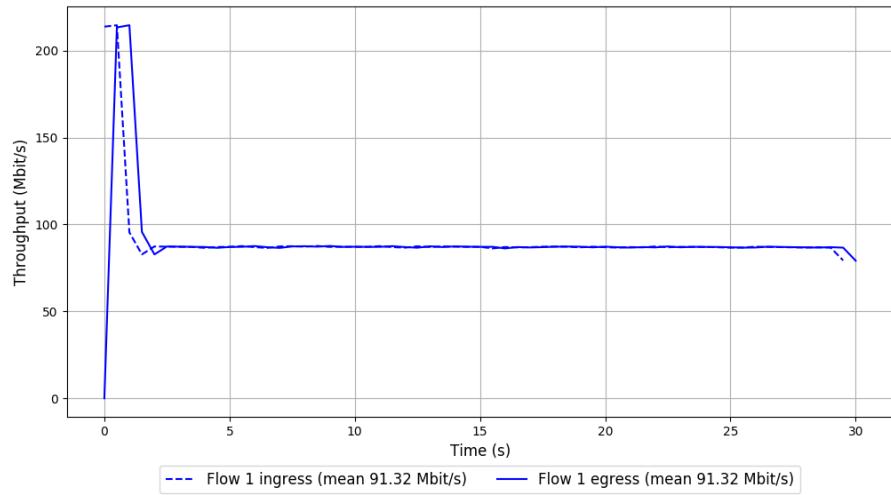


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-21 22:34:22
End at: 2019-01-21 22:34:52
Local clock offset: 3.247 ms
Remote clock offset: -0.538 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.32 Mbit/s
95th percentile per-packet one-way delay: 1.024 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 91.32 Mbit/s
95th percentile per-packet one-way delay: 1.024 ms
Loss rate: 0.01%
```

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

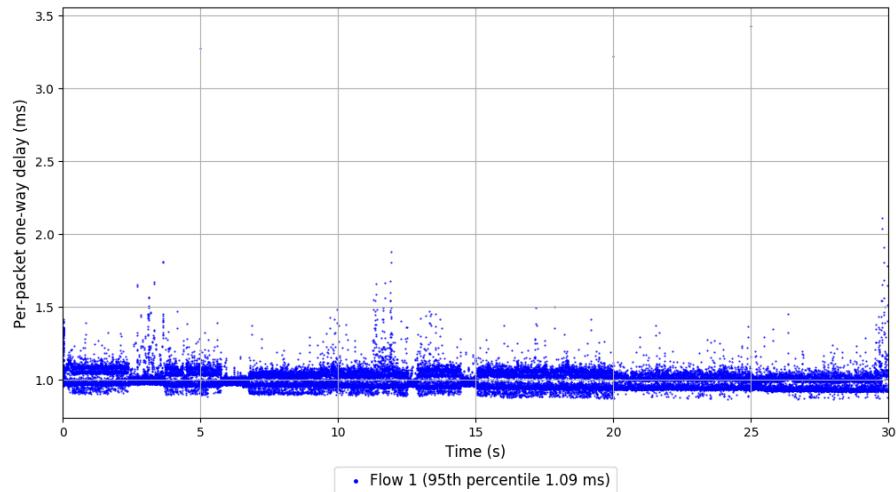
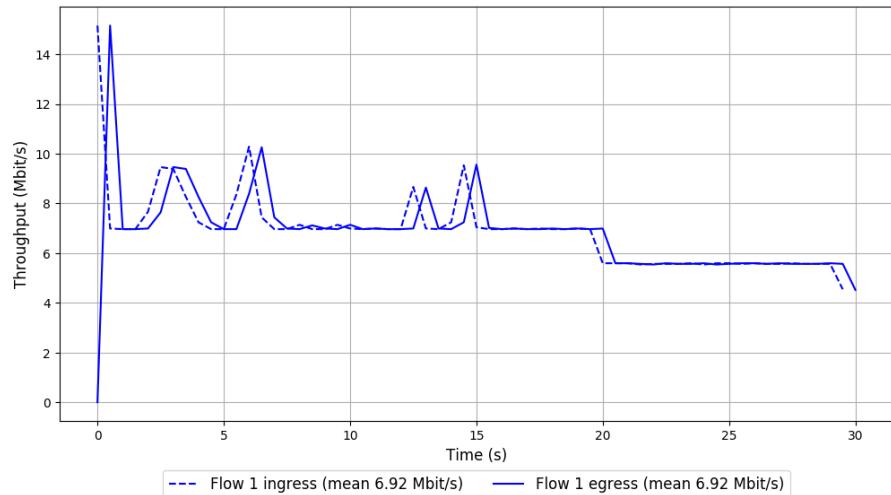


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-21 23:03:47
End at: 2019-01-21 23:04:17
Local clock offset: 3.452 ms
Remote clock offset: -4.273 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 1.094 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 1.094 ms
Loss rate: 0.01%
```

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

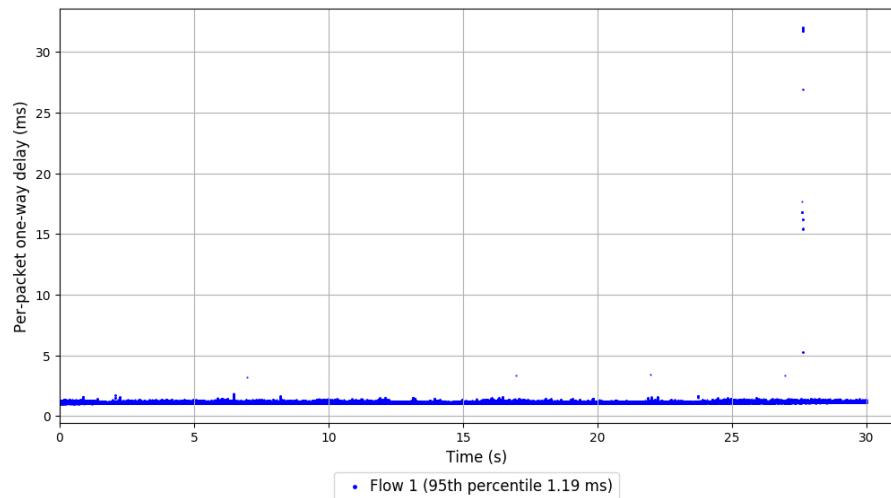
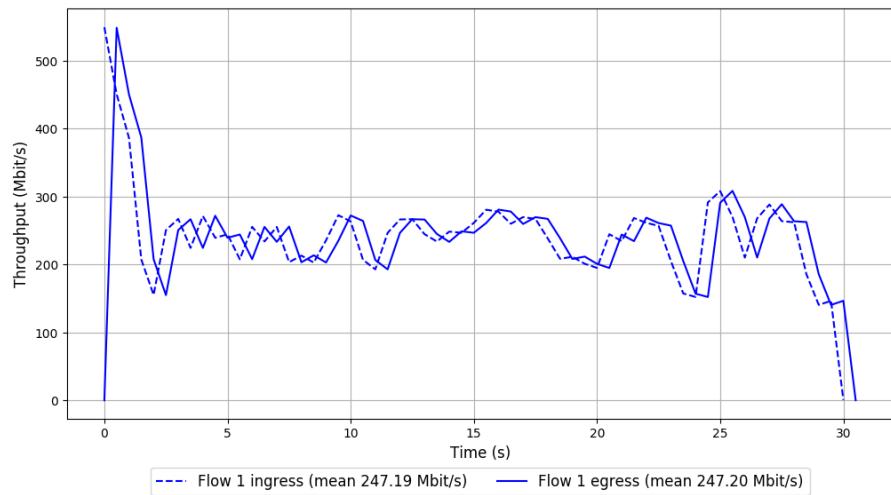


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-21 21:08:58
End at: 2019-01-21 21:09:28
Local clock offset: 2.9 ms
Remote clock offset: 2.028 ms

# Below is generated by plot.py at 2019-01-22 00:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.20 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 247.20 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

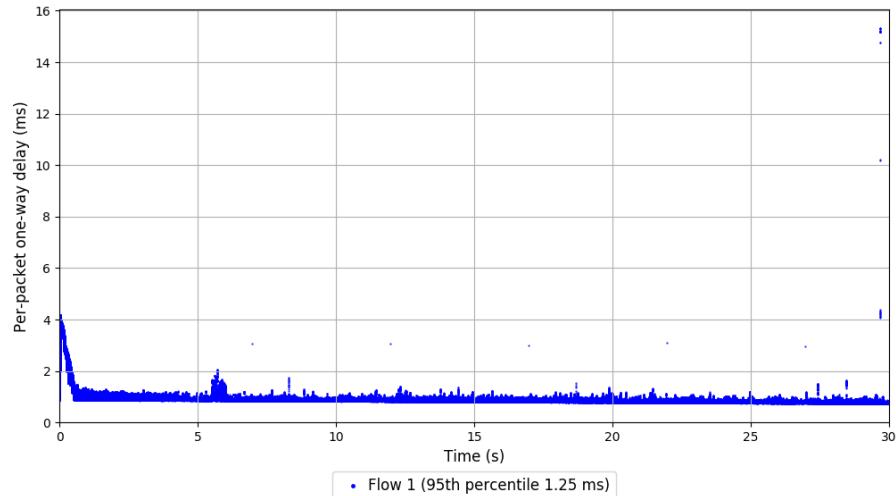
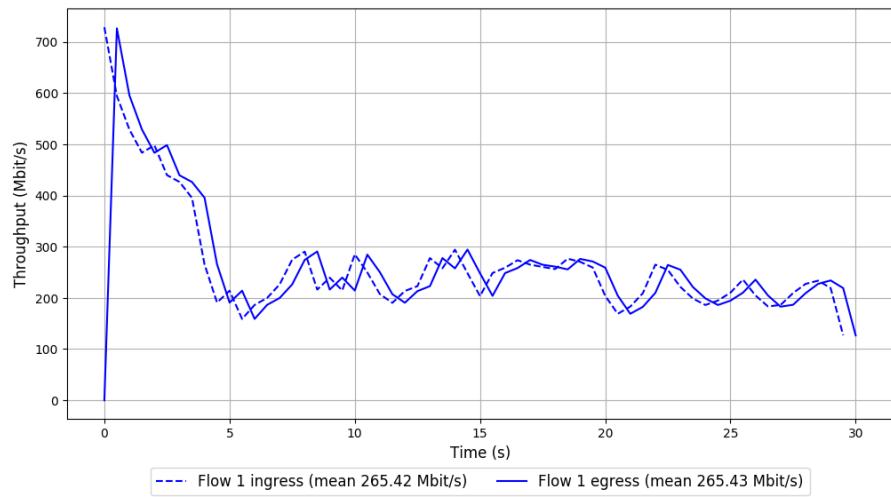


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-21 21:38:52
End at: 2019-01-21 21:39:22
Local clock offset: 2.867 ms
Remote clock offset: 2.378 ms

# Below is generated by plot.py at 2019-01-22 00:28:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 265.43 Mbit/s
95th percentile per-packet one-way delay: 1.248 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 265.43 Mbit/s
95th percentile per-packet one-way delay: 1.248 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

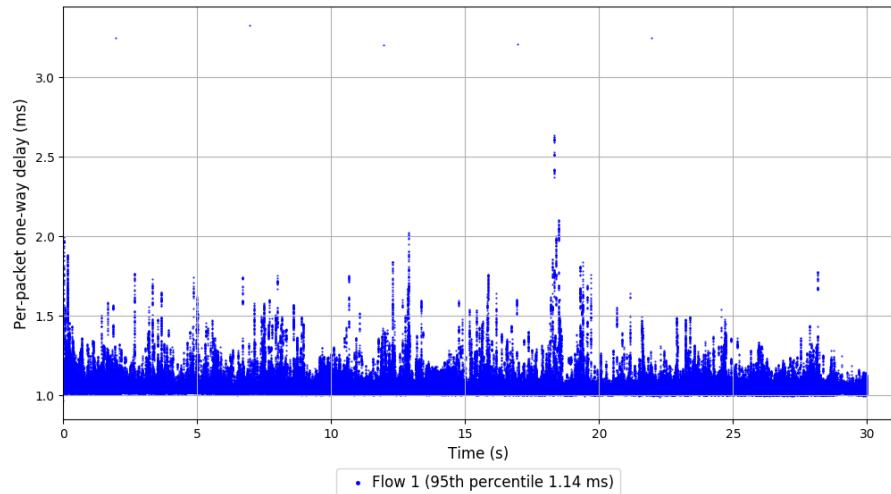
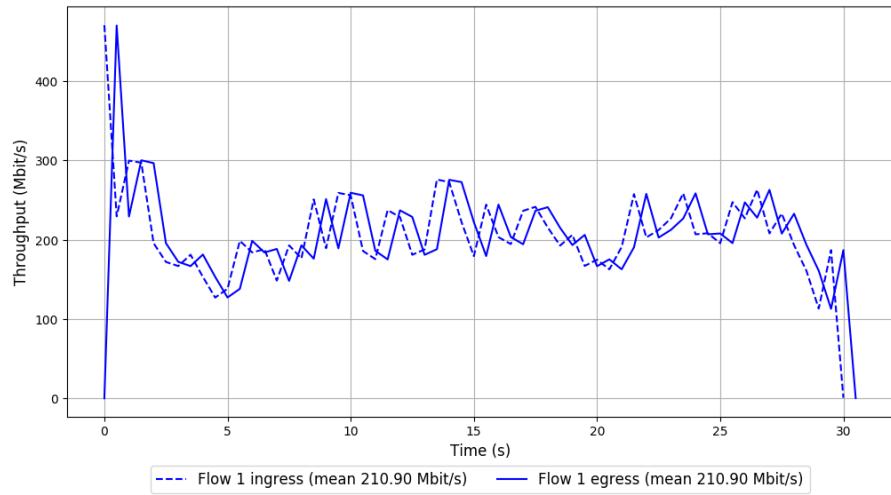


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-21 22:08:22
End at: 2019-01-21 22:08:52
Local clock offset: 2.851 ms
Remote clock offset: -0.354 ms

# Below is generated by plot.py at 2019-01-22 00:28:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.90 Mbit/s
95th percentile per-packet one-way delay: 1.142 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 210.90 Mbit/s
95th percentile per-packet one-way delay: 1.142 ms
Loss rate: 0.01%
```

Run 3: Report of TCP Vegas — Data Link

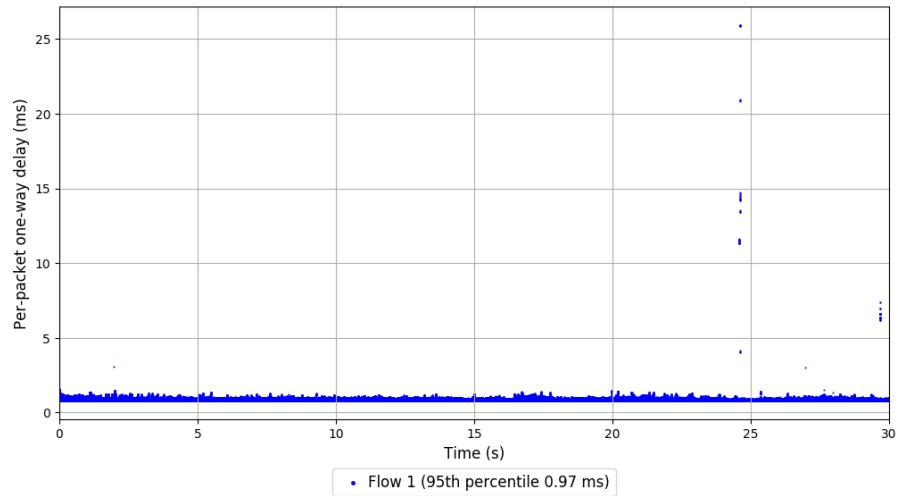
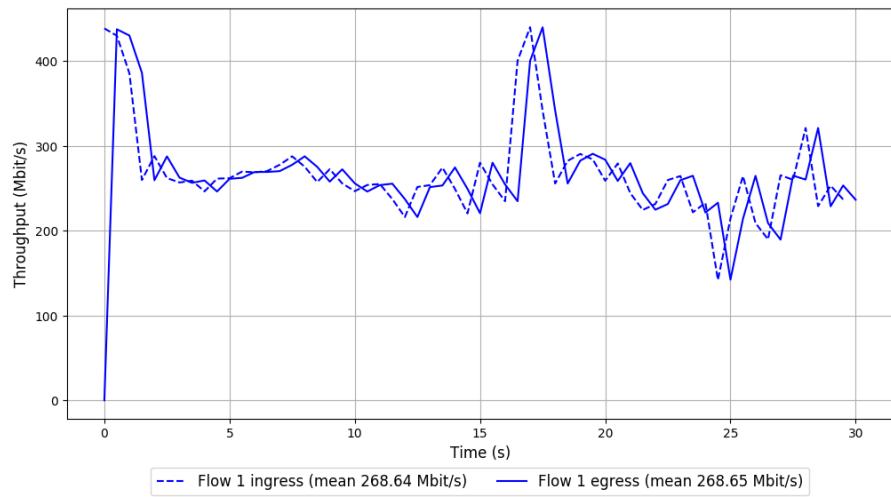


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-21 22:38:06
End at: 2019-01-21 22:38:36
Local clock offset: 3.271 ms
Remote clock offset: -0.431 ms

# Below is generated by plot.py at 2019-01-22 00:28:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 268.65 Mbit/s
95th percentile per-packet one-way delay: 0.975 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 268.65 Mbit/s
95th percentile per-packet one-way delay: 0.975 ms
Loss rate: 0.01%
```

Run 4: Report of TCP Vegas — Data Link

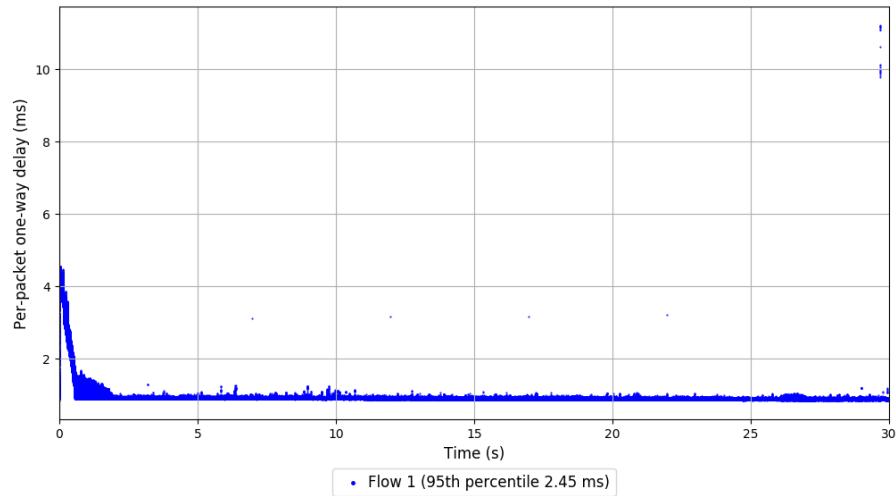
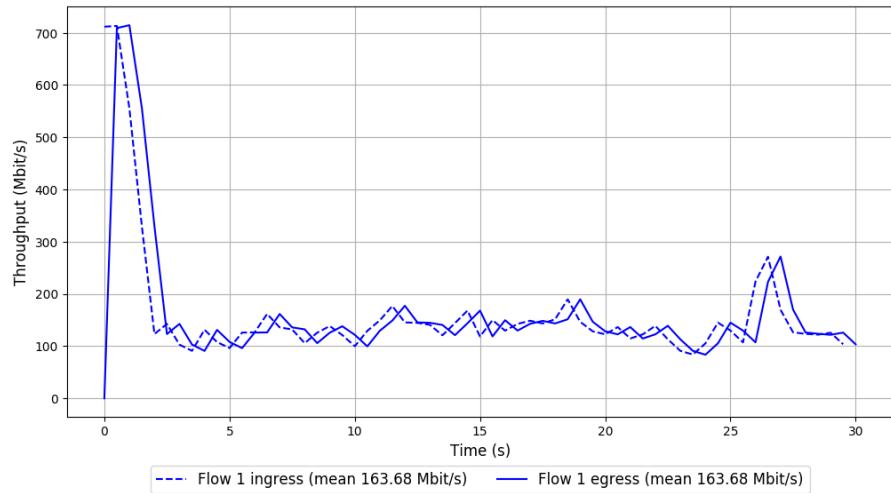


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-21 23:07:27
End at: 2019-01-21 23:07:57
Local clock offset: 3.473 ms
Remote clock offset: -4.526 ms

# Below is generated by plot.py at 2019-01-22 00:28:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 163.68 Mbit/s
95th percentile per-packet one-way delay: 2.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 163.68 Mbit/s
95th percentile per-packet one-way delay: 2.450 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

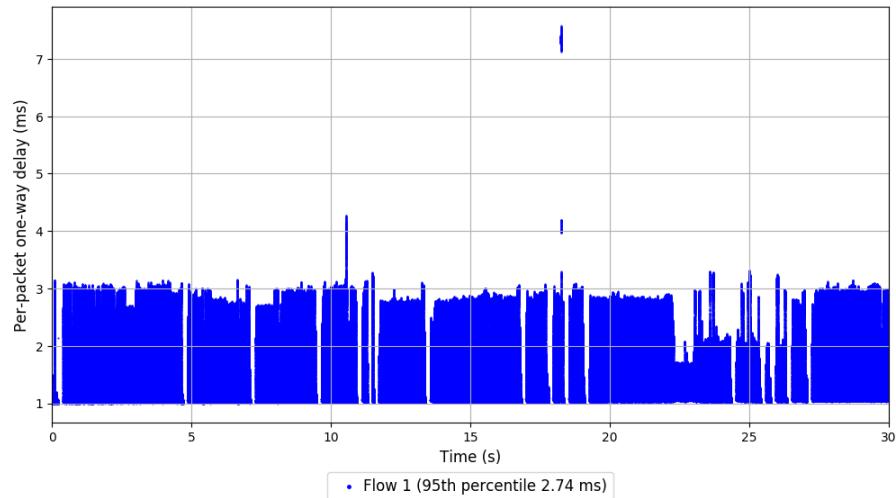
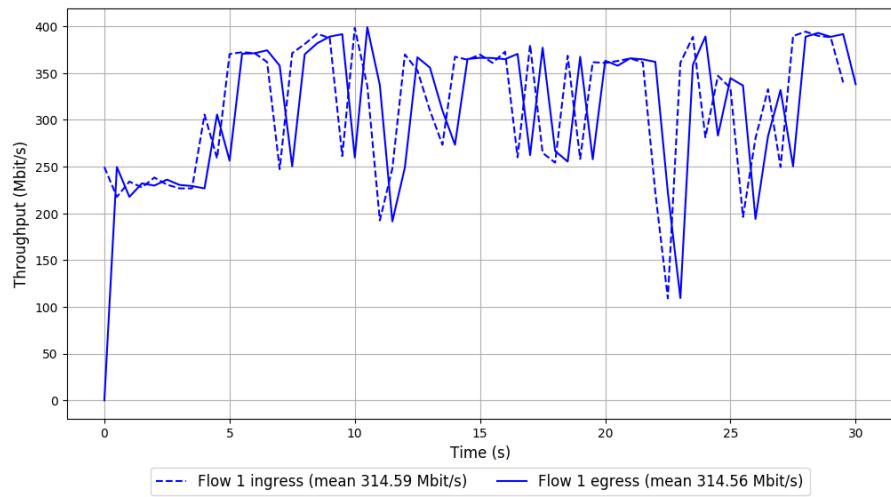


Run 1: Statistics of Verus

```
Start at: 2019-01-21 21:24:01
End at: 2019-01-21 21:24:31
Local clock offset: 2.902 ms
Remote clock offset: 3.85 ms

# Below is generated by plot.py at 2019-01-22 00:29:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 314.56 Mbit/s
95th percentile per-packet one-way delay: 2.741 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 314.56 Mbit/s
95th percentile per-packet one-way delay: 2.741 ms
Loss rate: 0.01%
```

Run 1: Report of Verus — Data Link

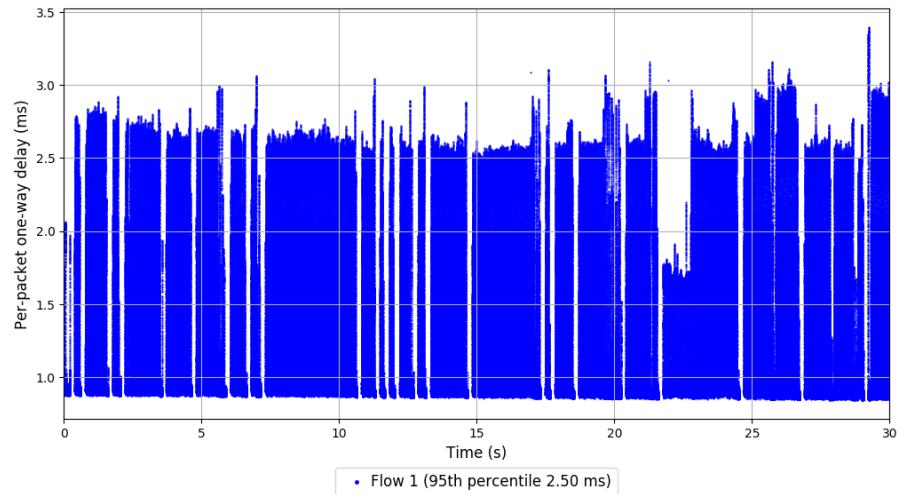
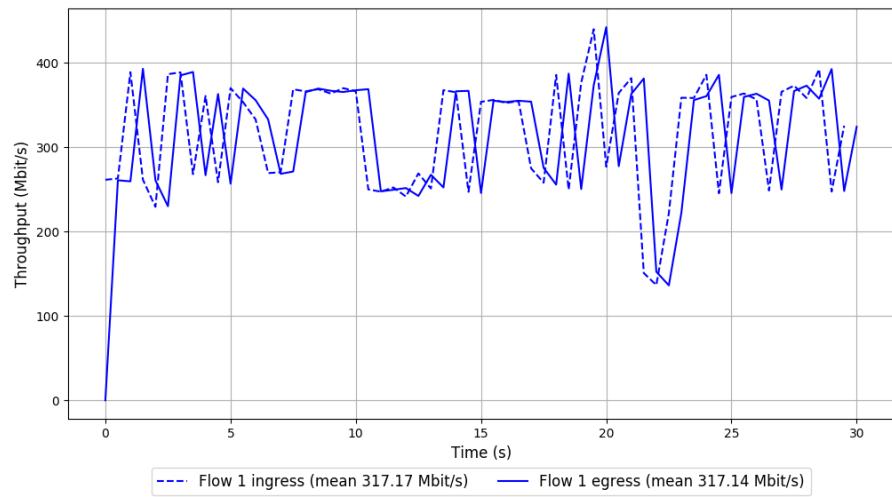


Run 2: Statistics of Verus

```
Start at: 2019-01-21 21:53:31
End at: 2019-01-21 21:54:01
Local clock offset: 2.863 ms
Remote clock offset: 0.236 ms

# Below is generated by plot.py at 2019-01-22 00:30:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.14 Mbit/s
95th percentile per-packet one-way delay: 2.500 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 317.14 Mbit/s
95th percentile per-packet one-way delay: 2.500 ms
Loss rate: 0.01%
```

Run 2: Report of Verus — Data Link

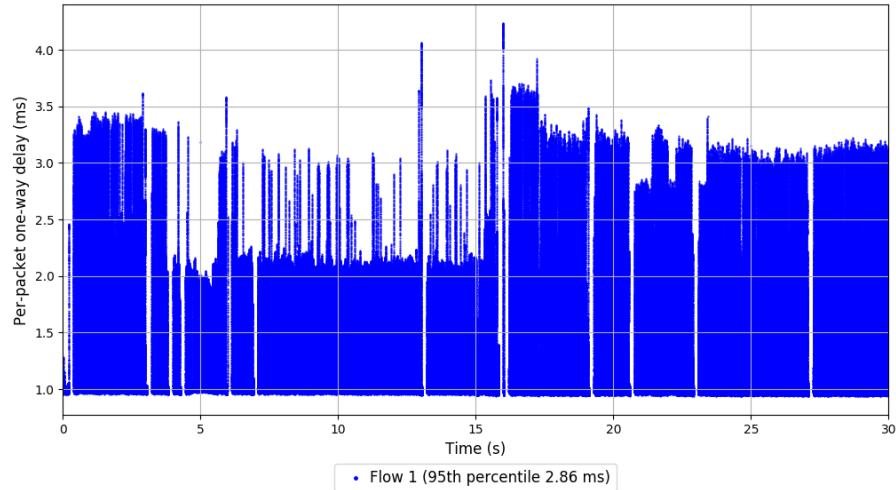
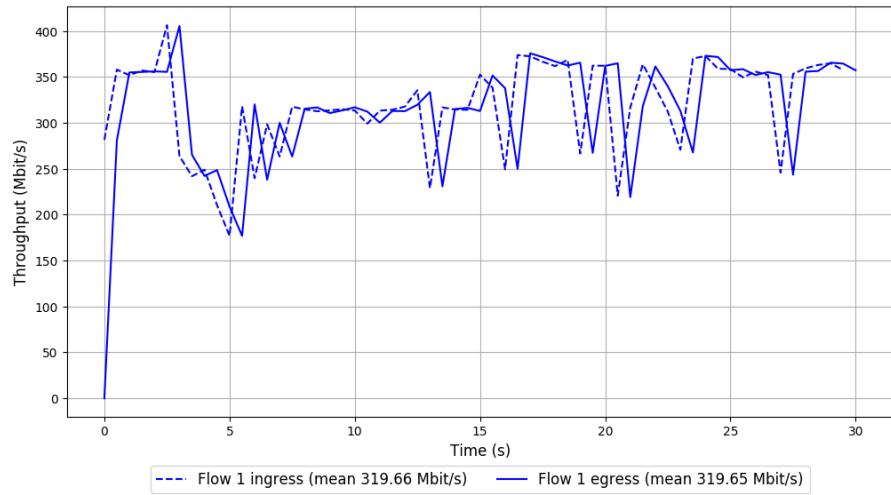


Run 3: Statistics of Verus

```
Start at: 2019-01-21 22:23:18
End at: 2019-01-21 22:23:48
Local clock offset: 3.044 ms
Remote clock offset: -0.44 ms

# Below is generated by plot.py at 2019-01-22 00:30:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.65 Mbit/s
95th percentile per-packet one-way delay: 2.859 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 319.65 Mbit/s
95th percentile per-packet one-way delay: 2.859 ms
Loss rate: 0.01%
```

Run 3: Report of Verus — Data Link

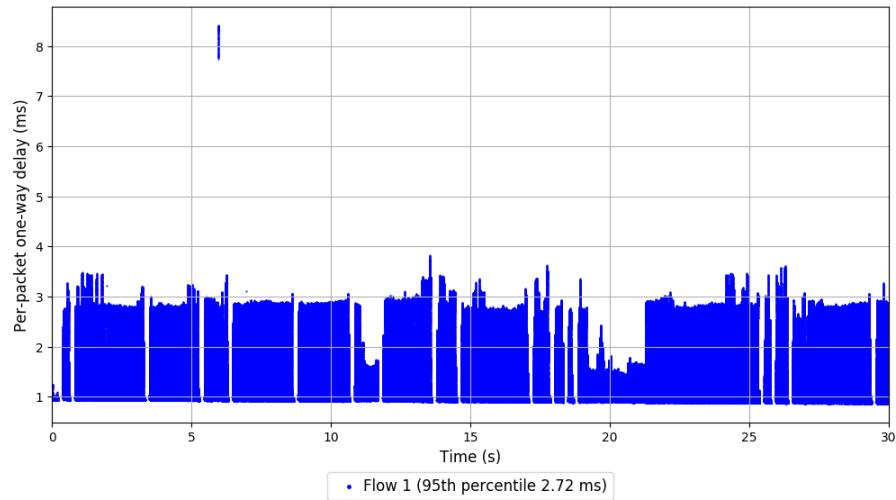
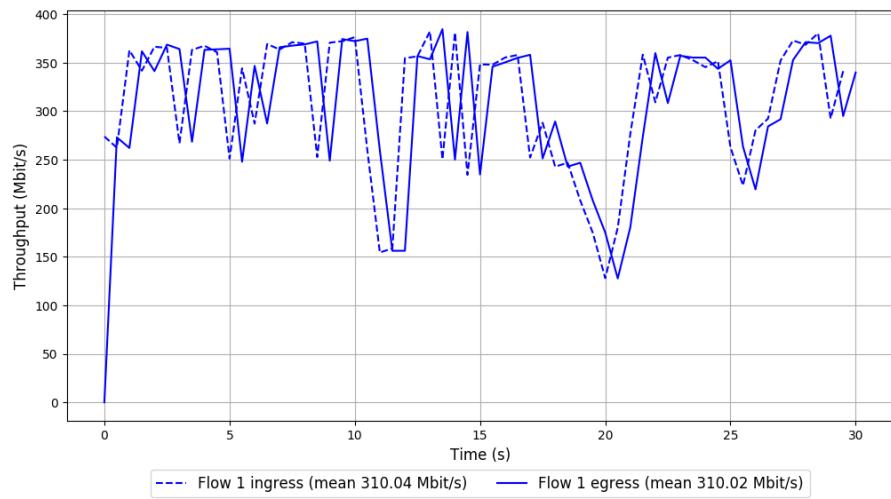


Run 4: Statistics of Verus

```
Start at: 2019-01-21 22:52:42
End at: 2019-01-21 22:53:12
Local clock offset: 3.381 ms
Remote clock offset: -3.083 ms

# Below is generated by plot.py at 2019-01-22 00:31:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.02 Mbit/s
95th percentile per-packet one-way delay: 2.717 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 310.02 Mbit/s
95th percentile per-packet one-way delay: 2.717 ms
Loss rate: 0.01%
```

Run 4: Report of Verus — Data Link

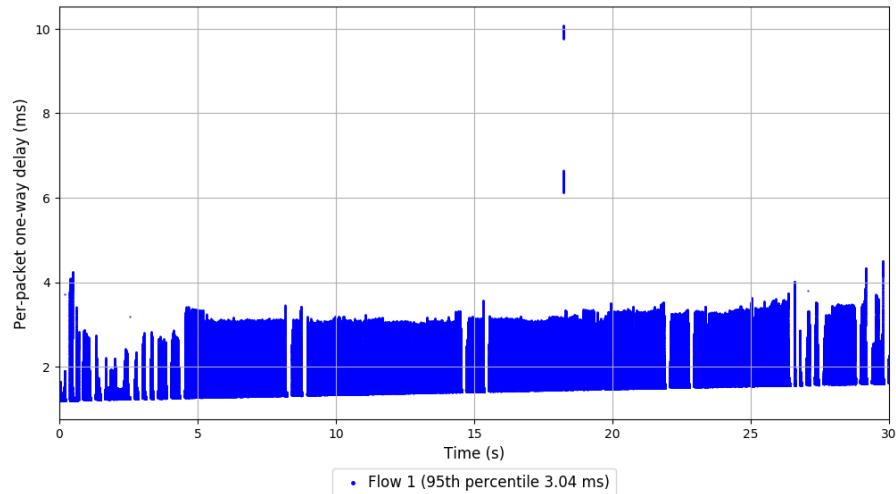
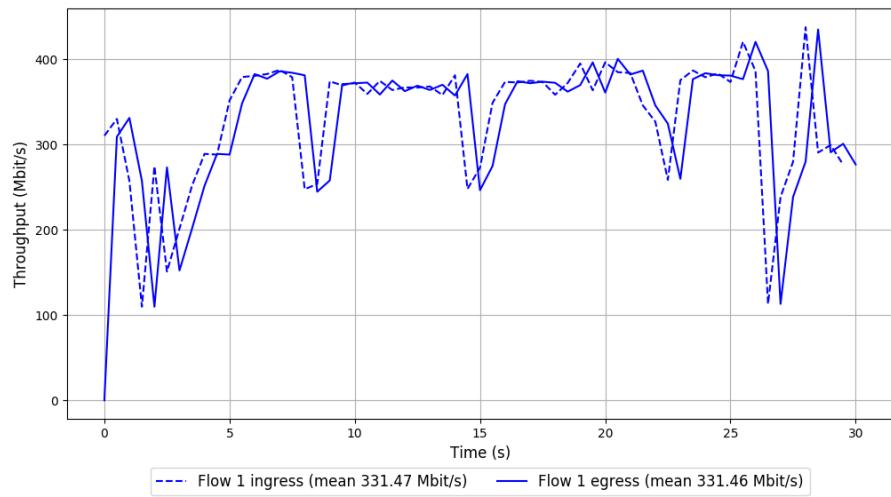


Run 5: Statistics of Verus

```
Start at: 2019-01-21 23:21:51
End at: 2019-01-21 23:22:21
Local clock offset: 2.183 ms
Remote clock offset: -0.856 ms

# Below is generated by plot.py at 2019-01-22 00:31:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.46 Mbit/s
95th percentile per-packet one-way delay: 3.044 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 331.46 Mbit/s
95th percentile per-packet one-way delay: 3.044 ms
Loss rate: 0.00%
```

Run 5: Report of Verus — Data Link

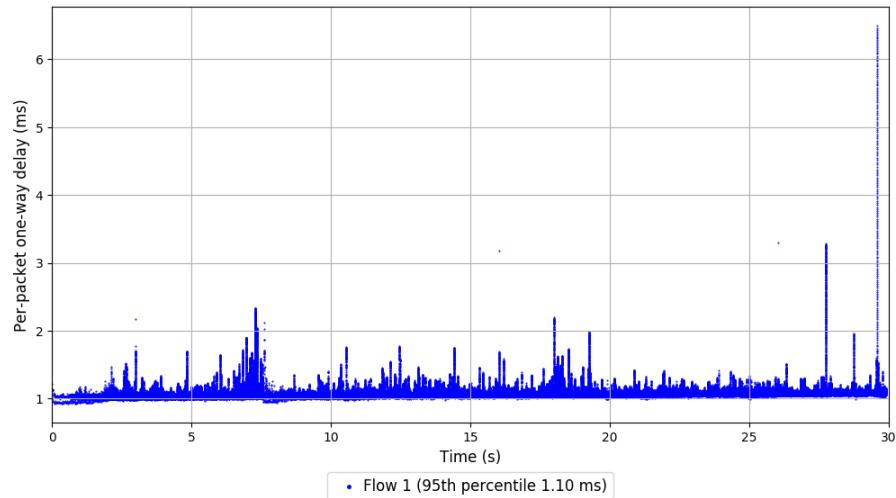
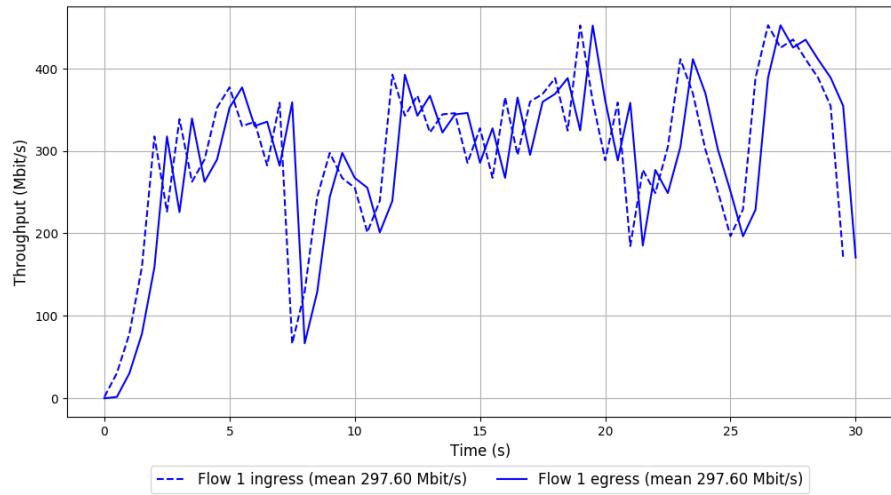


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-21 21:13:28
End at: 2019-01-21 21:13:58
Local clock offset: 2.928 ms
Remote clock offset: 2.759 ms

# Below is generated by plot.py at 2019-01-22 00:31:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.60 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 297.60 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

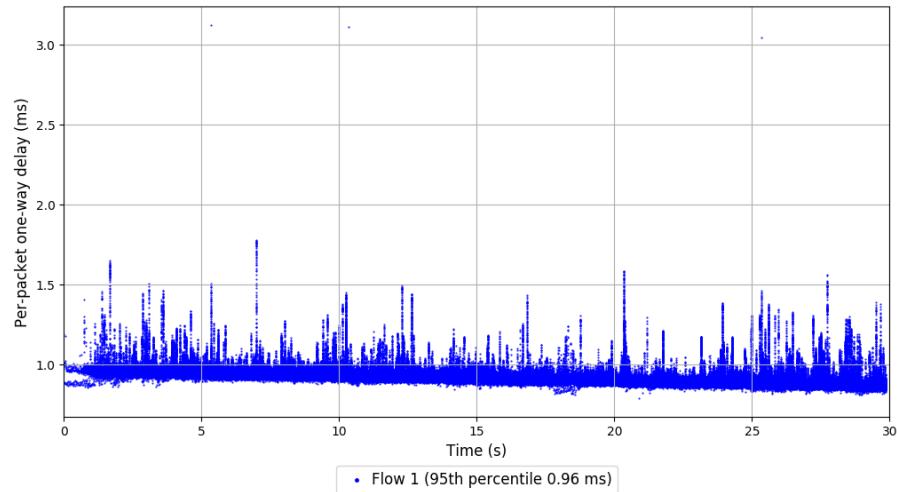
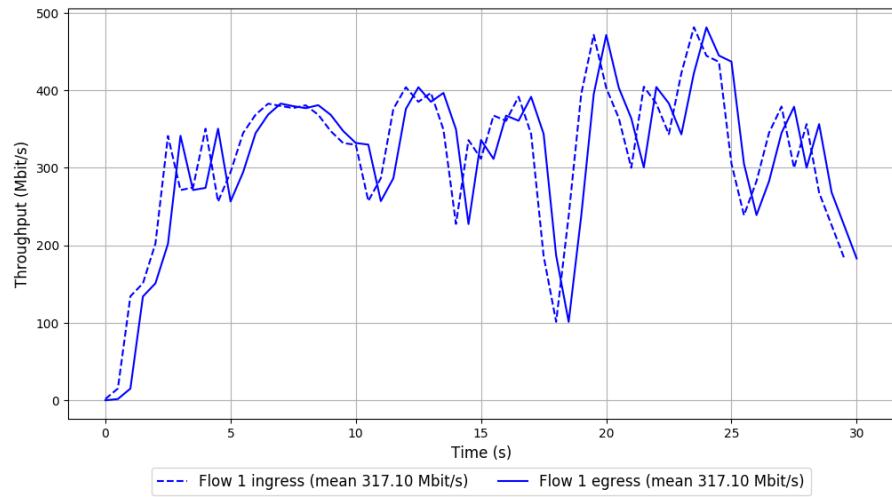


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-21 21:43:02
End at: 2019-01-21 21:43:32
Local clock offset: 2.857 ms
Remote clock offset: 1.305 ms

# Below is generated by plot.py at 2019-01-22 00:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.10 Mbit/s
95th percentile per-packet one-way delay: 0.965 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 317.10 Mbit/s
95th percentile per-packet one-way delay: 0.965 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

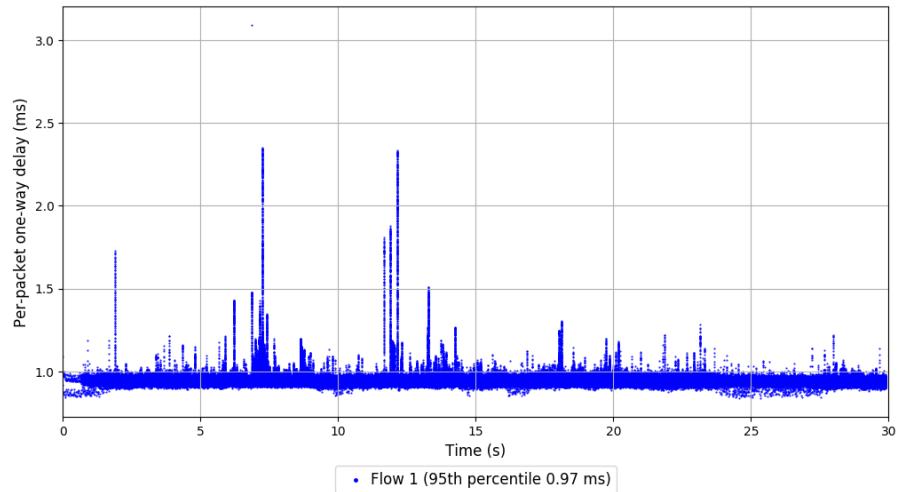
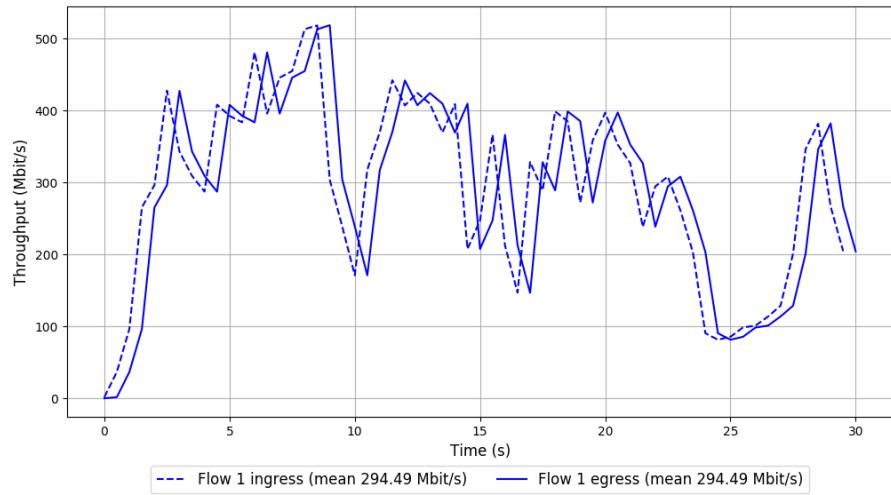


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-21 22:12:49
End at: 2019-01-21 22:13:19
Local clock offset: 2.85 ms
Remote clock offset: -0.331 ms

# Below is generated by plot.py at 2019-01-22 00:31:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 294.49 Mbit/s
95th percentile per-packet one-way delay: 0.968 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 294.49 Mbit/s
95th percentile per-packet one-way delay: 0.968 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

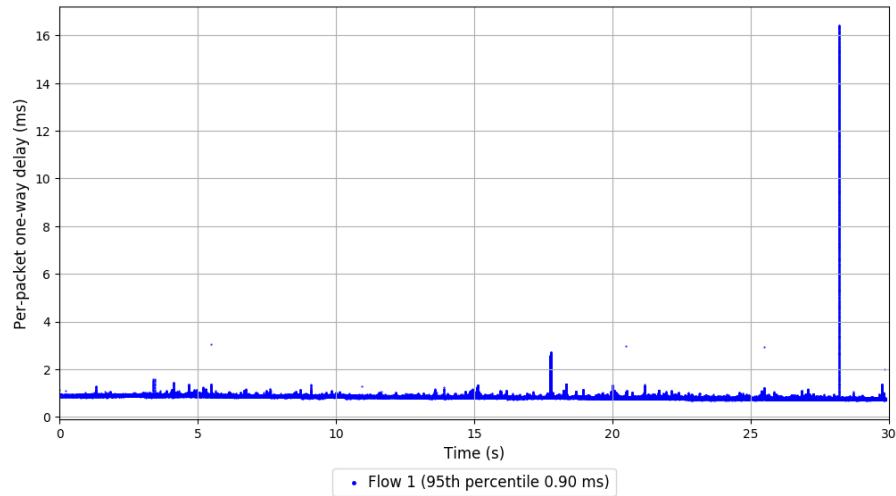
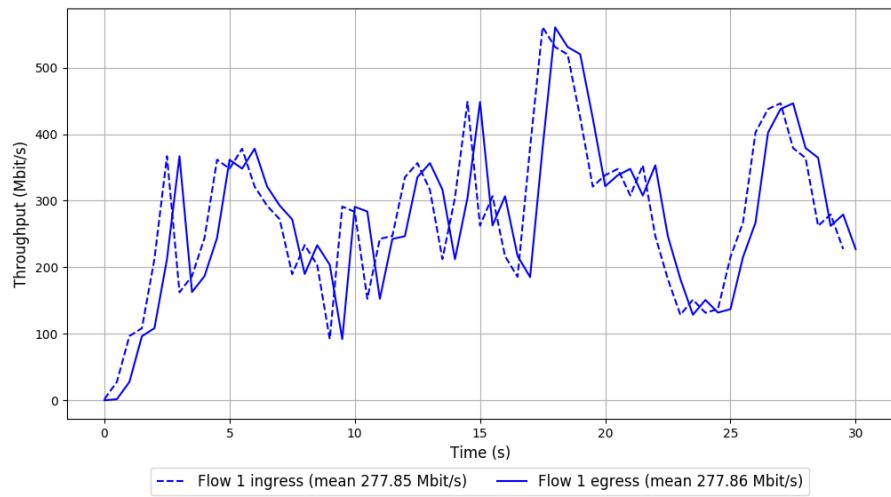


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-21 22:42:17
End at: 2019-01-21 22:42:47
Local clock offset: 3.313 ms
Remote clock offset: -0.775 ms

# Below is generated by plot.py at 2019-01-22 00:31:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 277.86 Mbit/s
95th percentile per-packet one-way delay: 0.902 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 277.86 Mbit/s
95th percentile per-packet one-way delay: 0.902 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

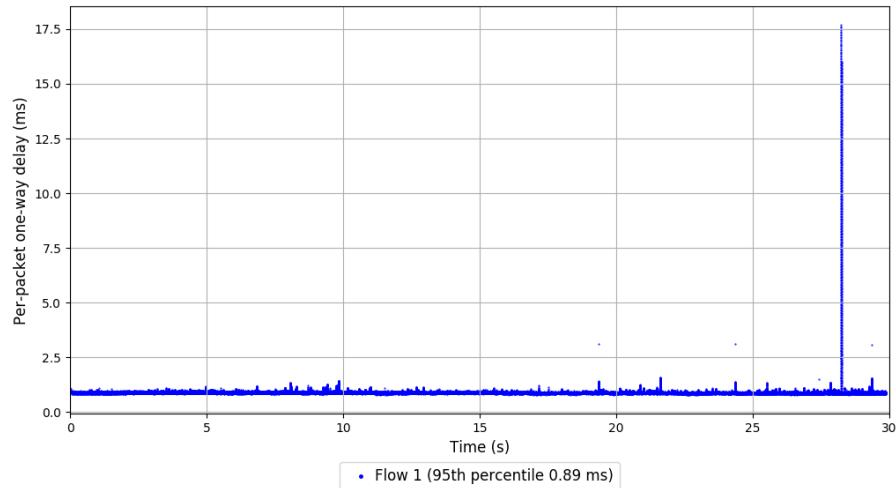
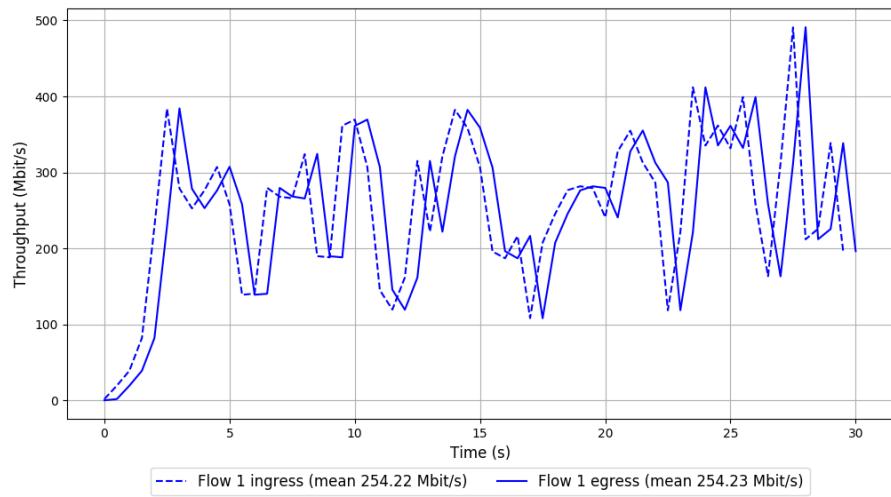


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-21 23:11:35
End at: 2019-01-21 23:12:05
Local clock offset: 3.496 ms
Remote clock offset: -4.833 ms

# Below is generated by plot.py at 2019-01-22 00:31:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.23 Mbit/s
95th percentile per-packet one-way delay: 0.888 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 254.23 Mbit/s
95th percentile per-packet one-way delay: 0.888 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

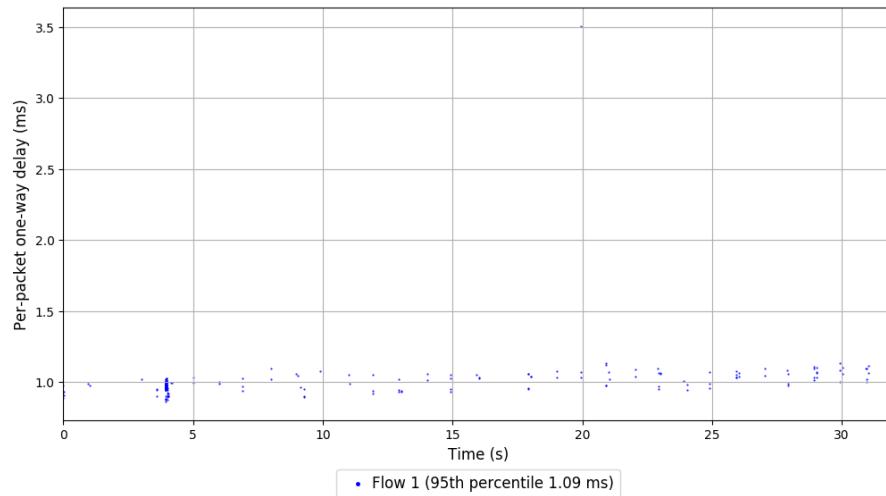
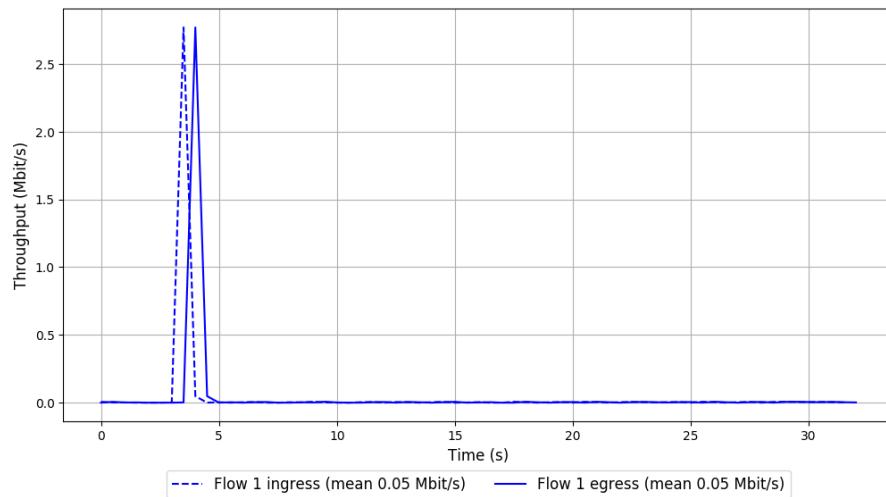


Run 1: Statistics of WebRTC media

```
Start at: 2019-01-21 21:06:32
End at: 2019-01-21 21:07:02
Local clock offset: 2.909 ms
Remote clock offset: 1.682 ms

# Below is generated by plot.py at 2019-01-22 00:31:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.095 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.095 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

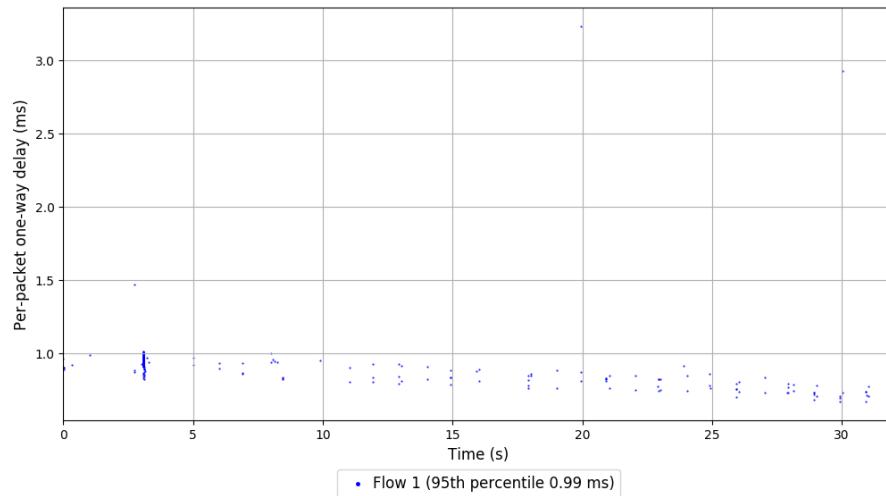
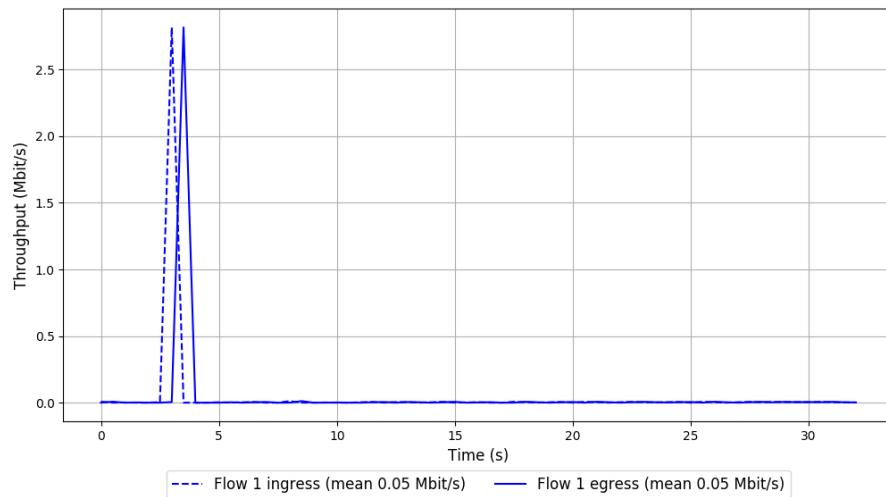


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-21 21:36:26
End at: 2019-01-21 21:36:56
Local clock offset: 2.872 ms
Remote clock offset: 3.205 ms

# Below is generated by plot.py at 2019-01-22 00:31:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.993 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 0.993 ms
Loss rate: 0.05%
```

Run 2: Report of WebRTC media — Data Link

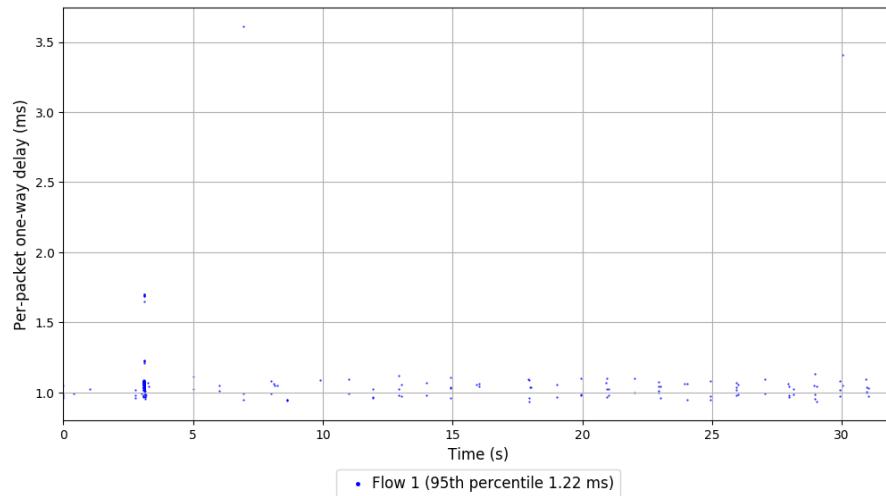
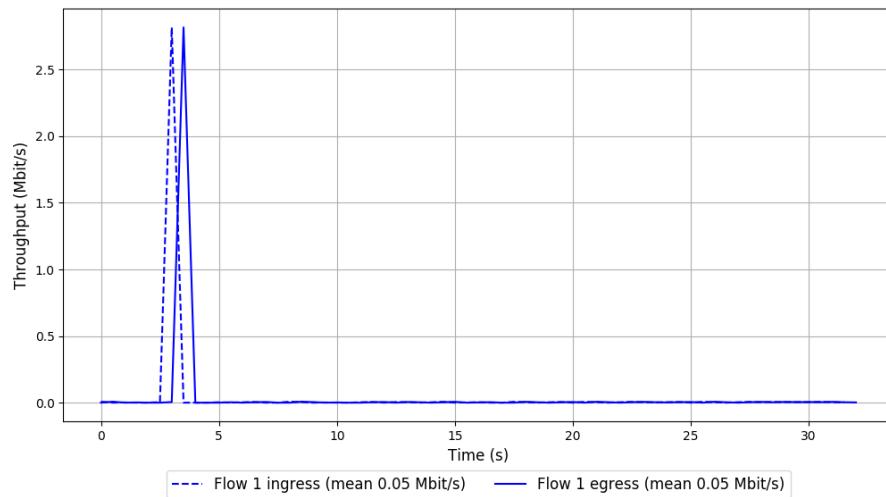


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-21 22:05:55
End at: 2019-01-21 22:06:25
Local clock offset: 2.854 ms
Remote clock offset: -0.275 ms

# Below is generated by plot.py at 2019-01-22 00:31:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.219 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

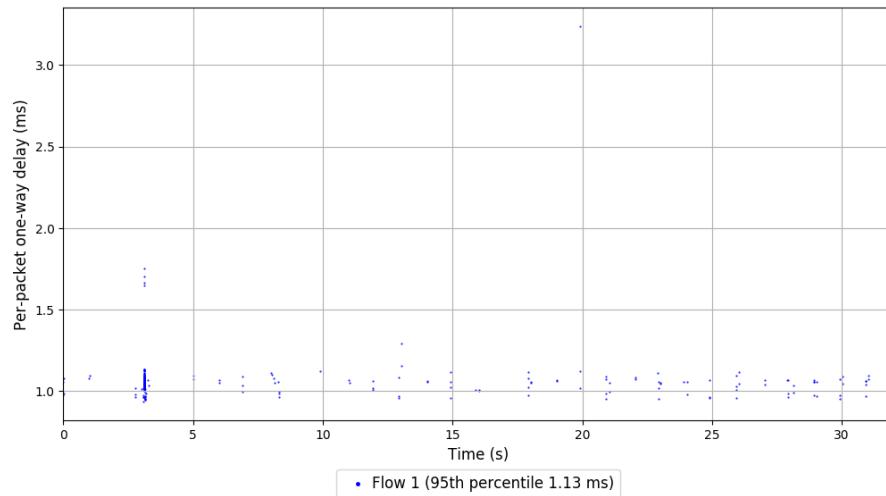
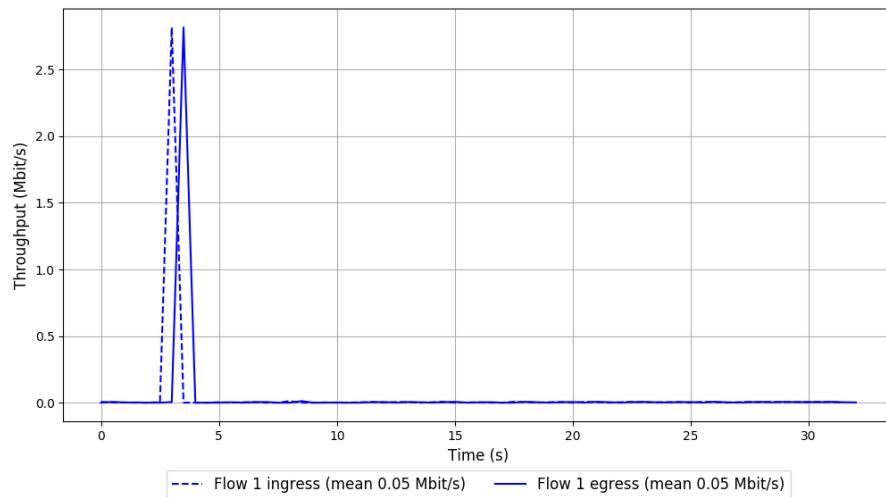


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-21 22:35:40
End at: 2019-01-21 22:36:10
Local clock offset: 3.274 ms
Remote clock offset: -0.551 ms

# Below is generated by plot.py at 2019-01-22 00:31:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.126 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-21 23:05:00
End at: 2019-01-21 23:05:30
Local clock offset: 3.449 ms
Remote clock offset: -4.346 ms

# Below is generated by plot.py at 2019-01-22 00:31:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.819 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.819 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

