

Pantheon Report

Generated at 2019-01-17 09:52:41 (UTC).
Data path: GCE Sydney on `ens4 (local)` → GCE Iowa on `ens4 (remote)`.
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

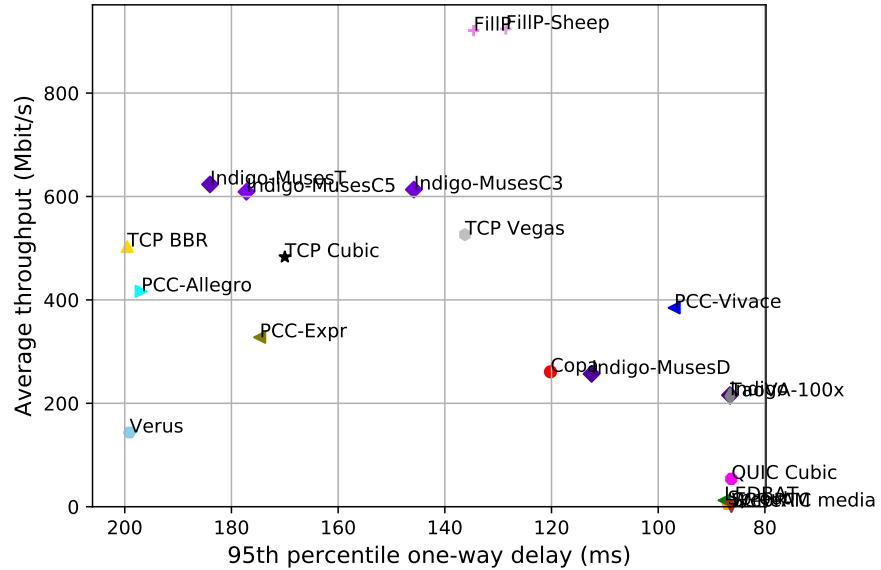
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

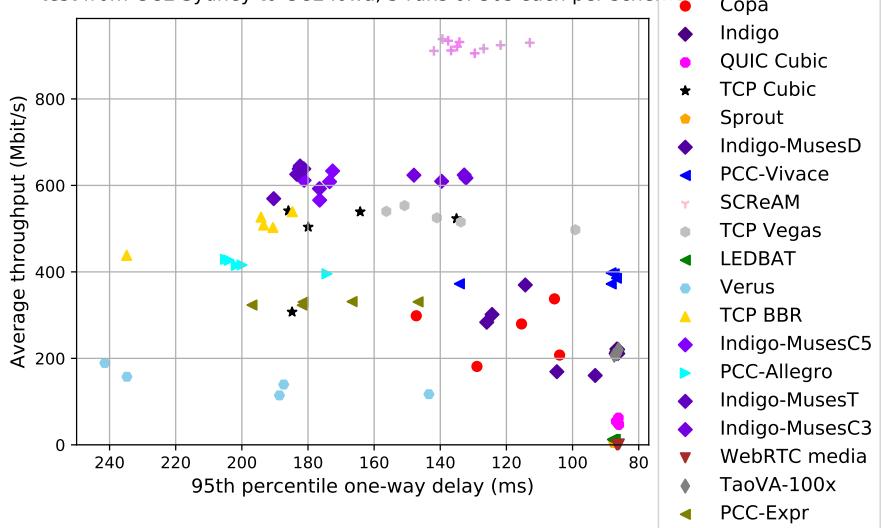
```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefef166e1afe2170
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



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



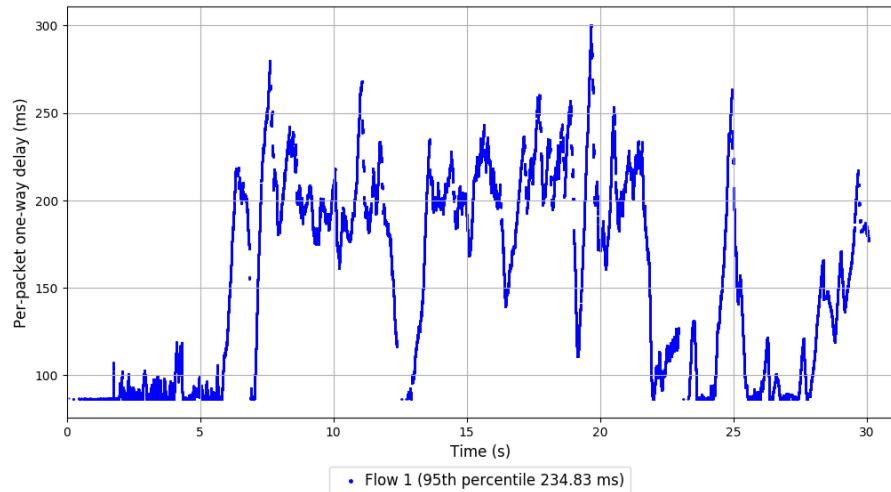
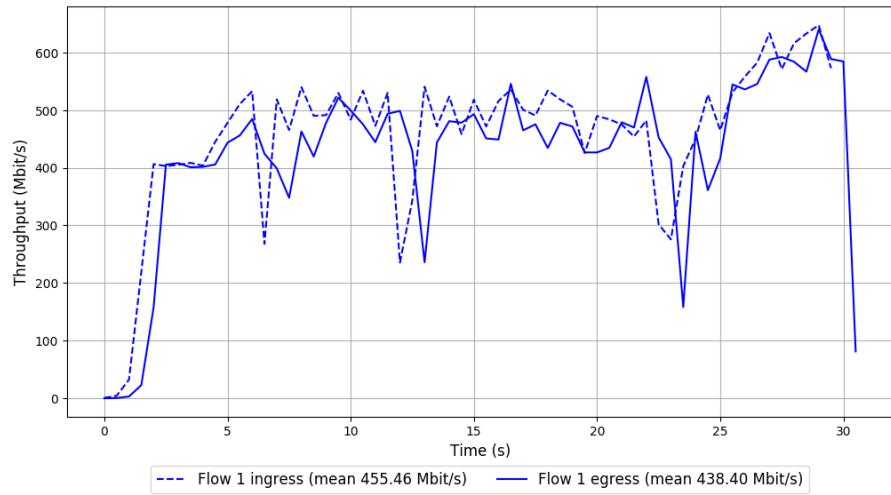
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	503.13	199.55	1.89
Copa	5	260.92	120.19	0.04
TCP Cubic	5	482.90	169.99	0.15
FillP	5	920.94	134.61	0.51
FillP-Sheep	5	924.05	128.56	0.41
Indigo	5	215.81	86.55	0.00
Indigo-MusesC3	5	613.38	145.82	0.16
Indigo-MusesC5	5	609.02	177.20	1.31
Indigo-MusesD	5	256.89	112.49	0.14
Indigo-MusesT	5	623.32	184.02	2.73
LEDBAT	5	12.31	87.64	0.00
PCC-Allegro	5	416.50	196.91	3.61
PCC-Expr	5	327.68	174.71	1.48
QUIC Cubic	5	53.79	86.29	0.00
SCReAM	5	0.22	86.26	0.00
Sprout	5	4.46	86.97	0.00
TaoVA-100x	5	213.56	86.52	0.00
TCP Vegas	5	526.20	136.22	0.10
Verus	5	143.57	199.11	3.60
PCC-Vivace	5	384.64	97.01	0.06
WebRTC media	5	0.45	86.29	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-17 05:33:05
End at: 2019-01-17 05:38:35
Local clock offset: 0.464 ms
Remote clock offset: 0.931 ms

# Below is generated by plot.py at 2019-01-17 08:09:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 438.40 Mbit/s
95th percentile per-packet one-way delay: 234.826 ms
Loss rate: 3.73%
-- Flow 1:
Average throughput: 438.40 Mbit/s
95th percentile per-packet one-way delay: 234.826 ms
Loss rate: 3.73%
```

Run 1: Report of TCP BBR — Data Link

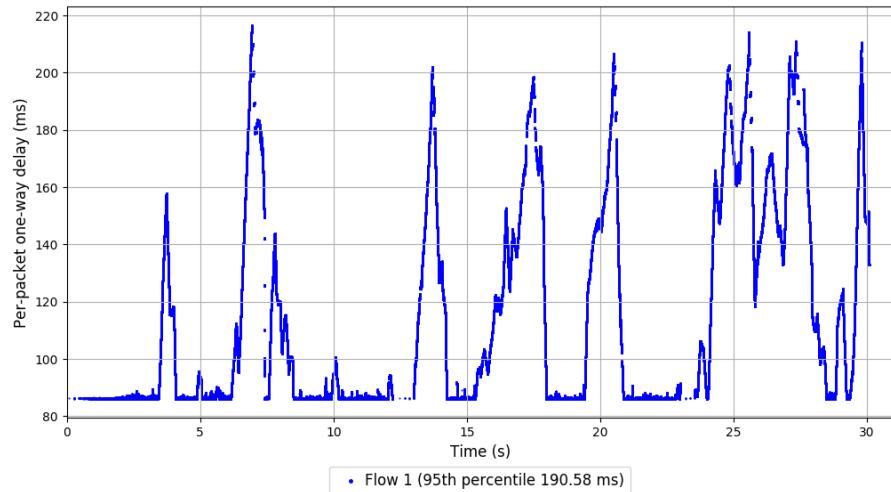
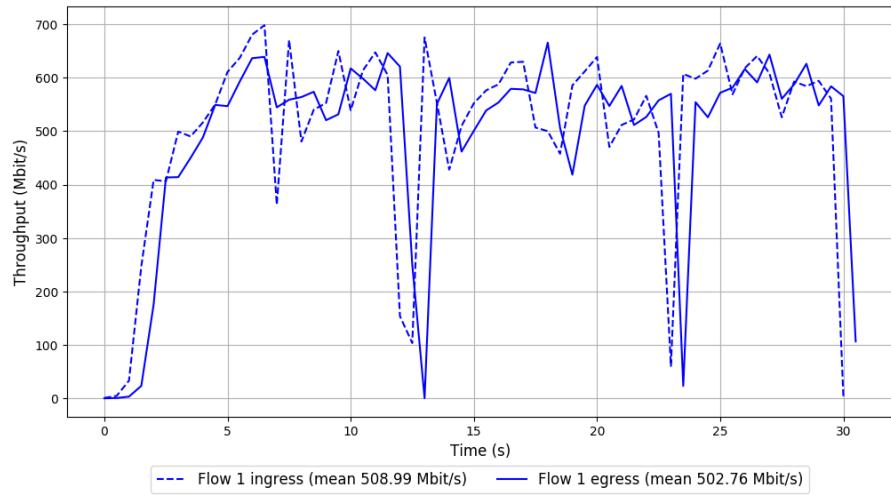


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-17 06:04:39
End at: 2019-01-17 06:05:09
Local clock offset: 0.228 ms
Remote clock offset: 0.349 ms

# Below is generated by plot.py at 2019-01-17 08:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 502.76 Mbit/s
95th percentile per-packet one-way delay: 190.583 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 502.76 Mbit/s
95th percentile per-packet one-way delay: 190.583 ms
Loss rate: 1.22%
```

Run 2: Report of TCP BBR — Data Link

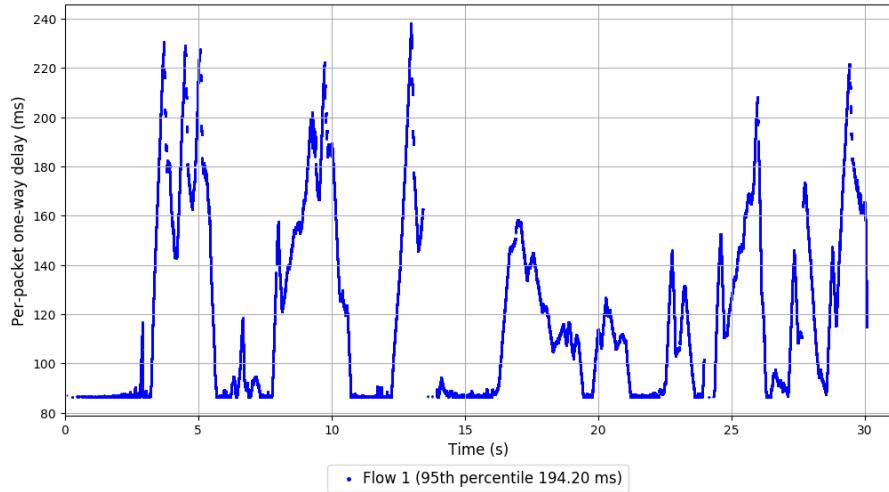
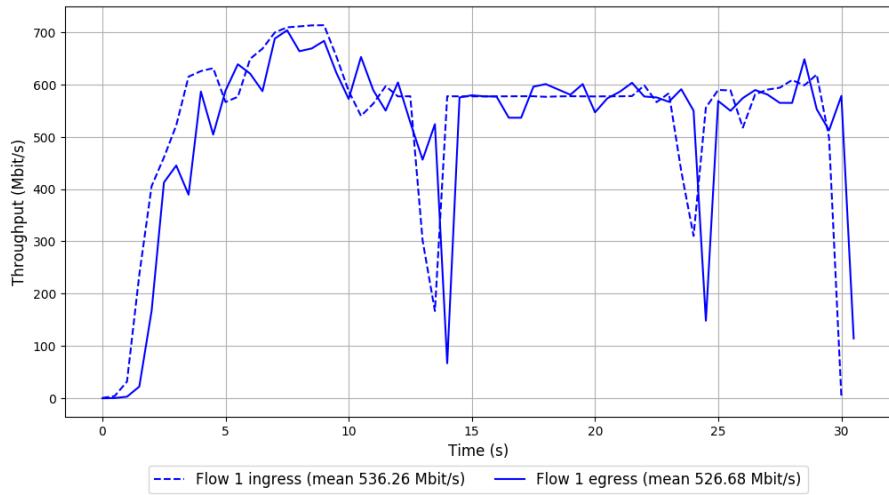


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-17 06:35:55
End at: 2019-01-17 06:36:25
Local clock offset: -0.11 ms
Remote clock offset: 0.154 ms

# Below is generated by plot.py at 2019-01-17 08:10:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 526.68 Mbit/s
95th percentile per-packet one-way delay: 194.203 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 526.68 Mbit/s
95th percentile per-packet one-way delay: 194.203 ms
Loss rate: 1.79%
```

Run 3: Report of TCP BBR — Data Link

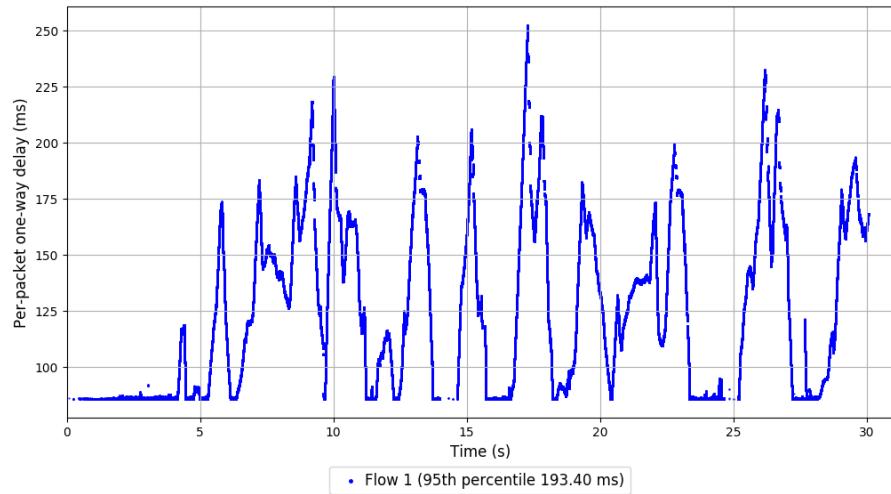
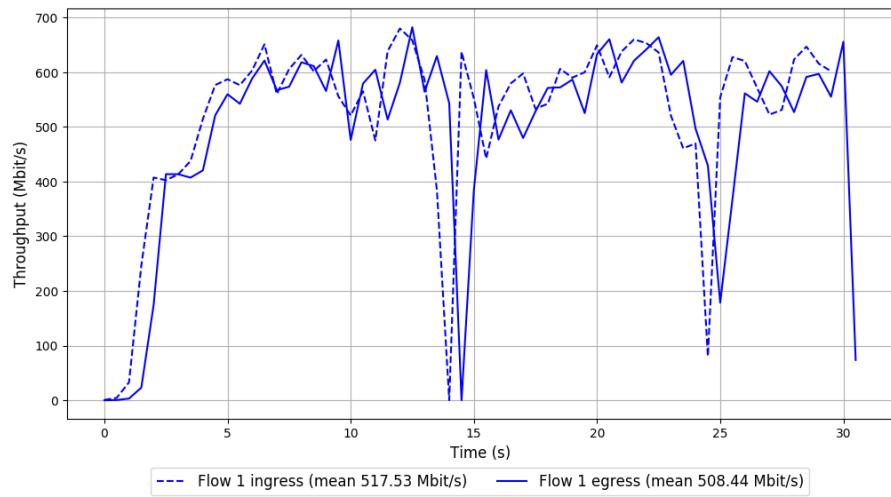


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-17 07:07:31
End at: 2019-01-17 07:08:01
Local clock offset: 0.018 ms
Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2019-01-17 08:10:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 508.44 Mbit/s
95th percentile per-packet one-way delay: 193.404 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 508.44 Mbit/s
95th percentile per-packet one-way delay: 193.404 ms
Loss rate: 1.75%
```

Run 4: Report of TCP BBR — Data Link

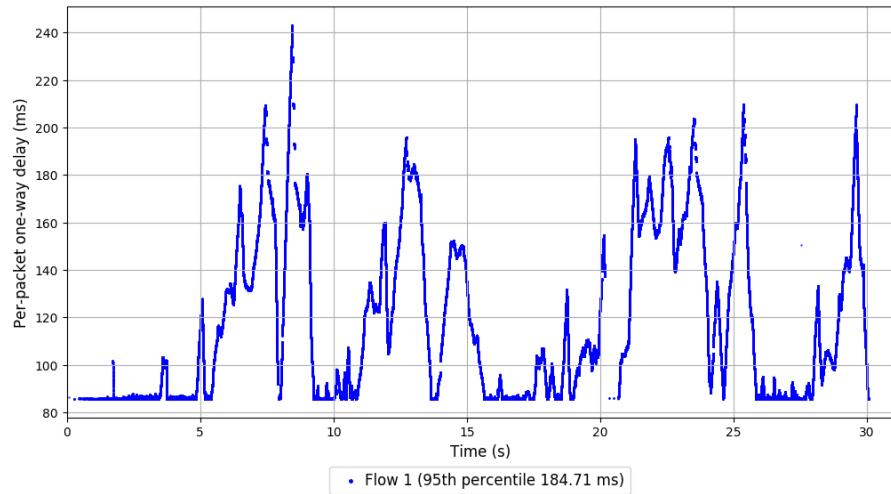
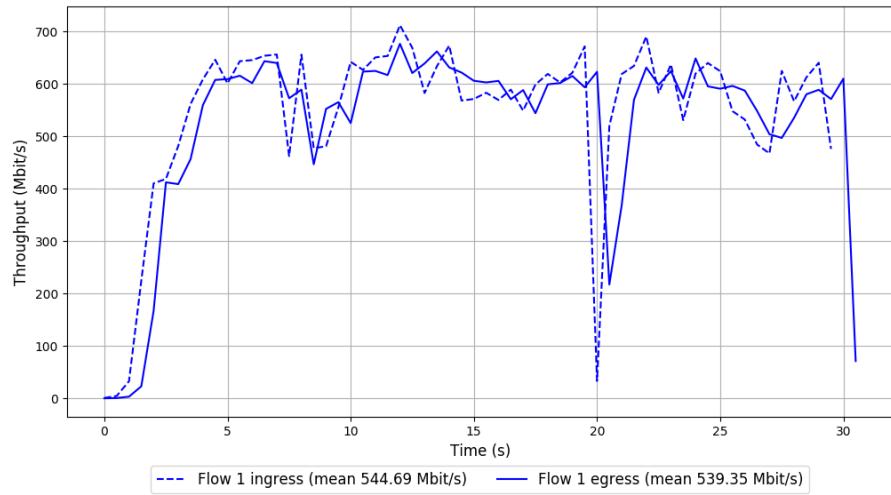


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-17 07:39:18
End at: 2019-01-17 07:39:48
Local clock offset: 0.297 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-01-17 08:10:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 539.35 Mbit/s
95th percentile per-packet one-way delay: 184.712 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 539.35 Mbit/s
95th percentile per-packet one-way delay: 184.712 ms
Loss rate: 0.98%
```

Run 5: Report of TCP BBR — Data Link

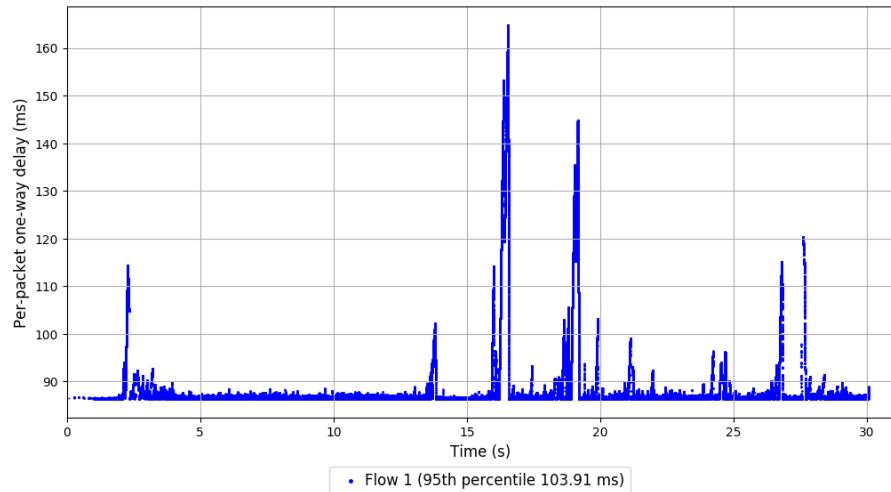
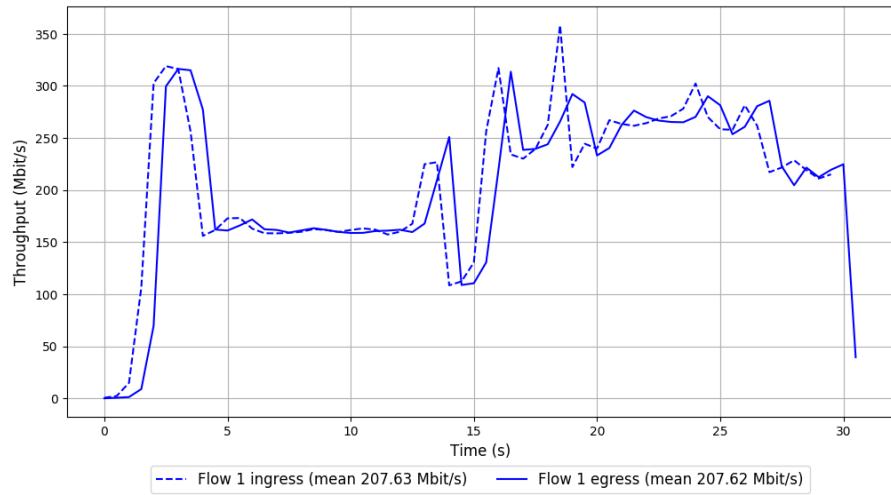


Run 1: Statistics of Copa

```
Start at: 2019-01-17 05:21:58
End at: 2019-01-17 05:22:28
Local clock offset: 0.162 ms
Remote clock offset: 1.321 ms

# Below is generated by plot.py at 2019-01-17 08:10:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.62 Mbit/s
95th percentile per-packet one-way delay: 103.914 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 207.62 Mbit/s
95th percentile per-packet one-way delay: 103.914 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link

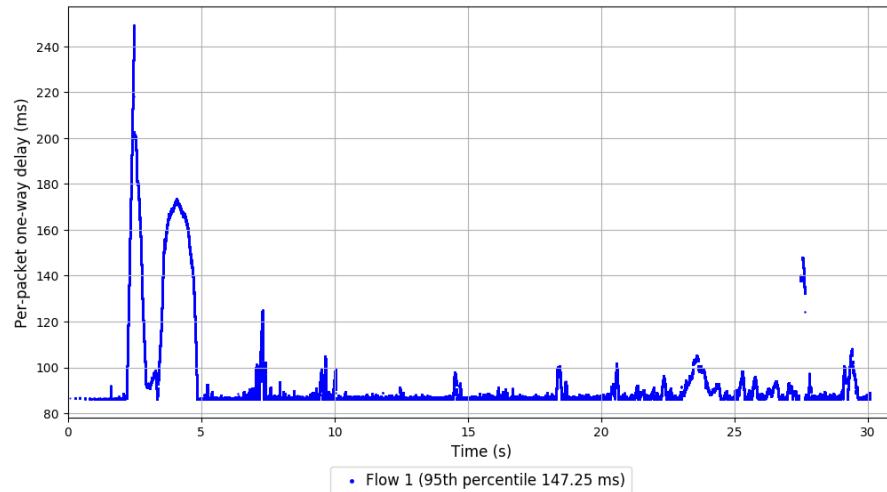
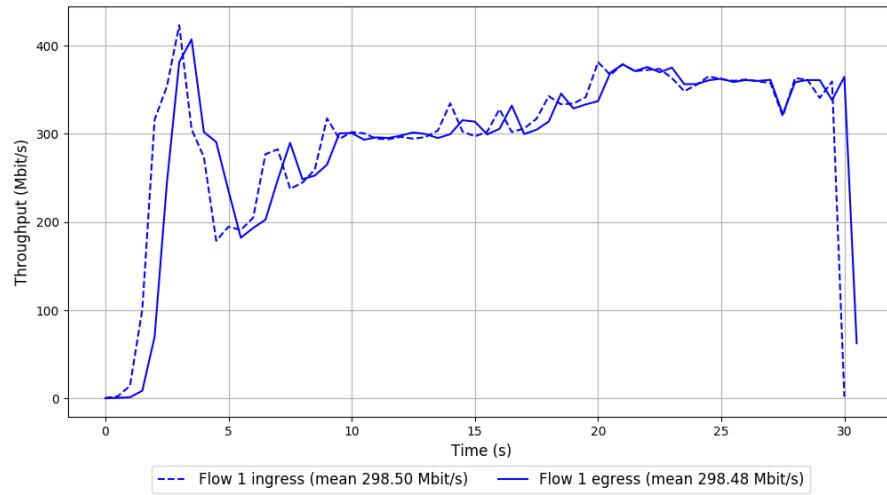


Run 2: Statistics of Copa

```
Start at: 2019-01-17 05:53:25
End at: 2019-01-17 05:53:55
Local clock offset: 0.272 ms
Remote clock offset: 0.386 ms

# Below is generated by plot.py at 2019-01-17 08:10:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 298.48 Mbit/s
95th percentile per-packet one-way delay: 147.255 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 298.48 Mbit/s
95th percentile per-packet one-way delay: 147.255 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link

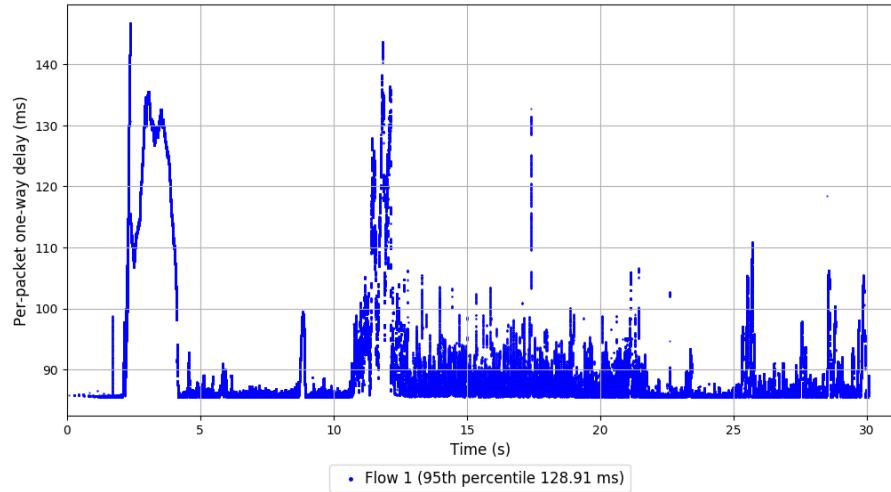
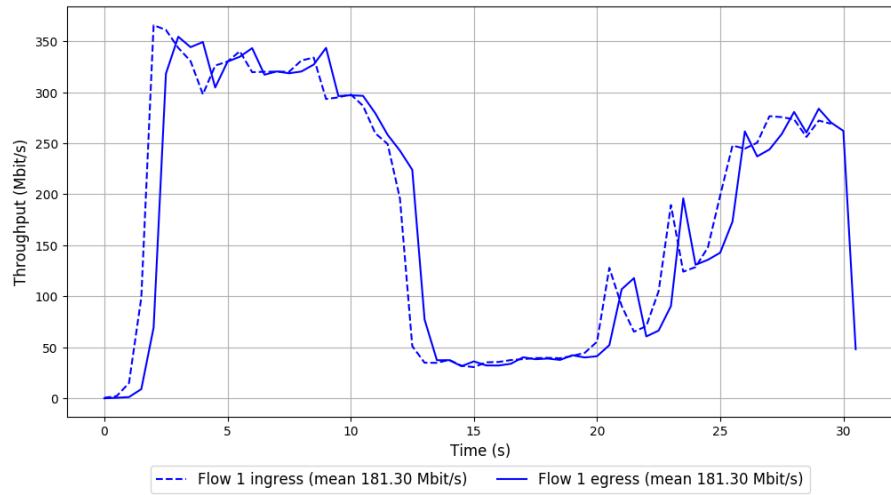


Run 3: Statistics of Copa

```
Start at: 2019-01-17 06:24:50
End at: 2019-01-17 06:25:20
Local clock offset: 0.407 ms
Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2019-01-17 08:10:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.30 Mbit/s
95th percentile per-packet one-way delay: 128.907 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 181.30 Mbit/s
95th percentile per-packet one-way delay: 128.907 ms
Loss rate: 0.00%
```

Run 3: Report of Copa — Data Link

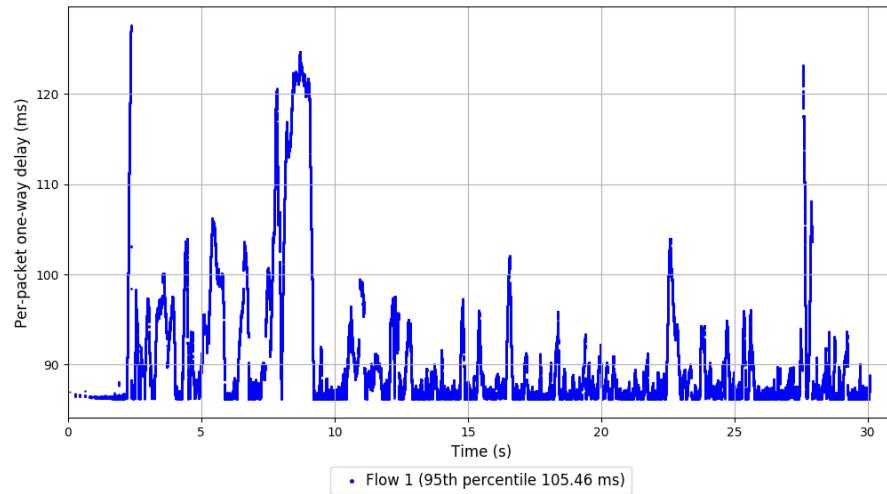
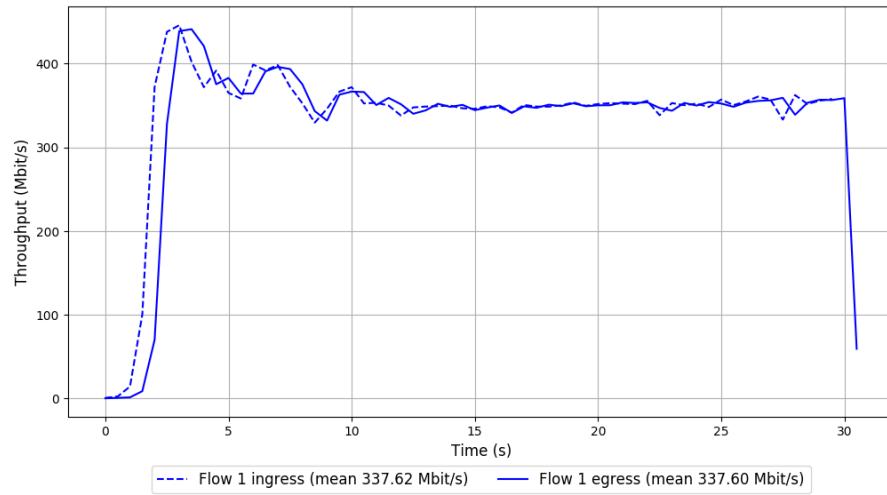


Run 4: Statistics of Copa

```
Start at: 2019-01-17 06:56:16
End at: 2019-01-17 06:56:46
Local clock offset: 0.358 ms
Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2019-01-17 08:18:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.60 Mbit/s
95th percentile per-packet one-way delay: 105.464 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 337.60 Mbit/s
95th percentile per-packet one-way delay: 105.464 ms
Loss rate: 0.01%
```

Run 4: Report of Copa — Data Link

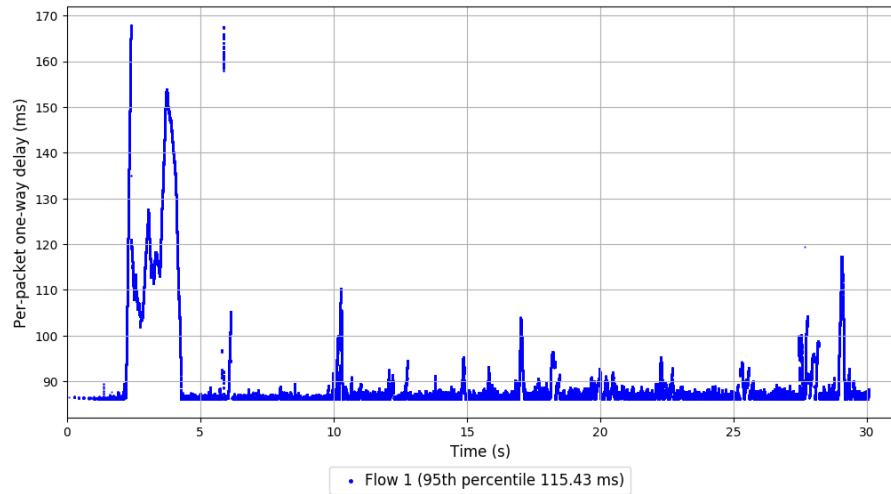
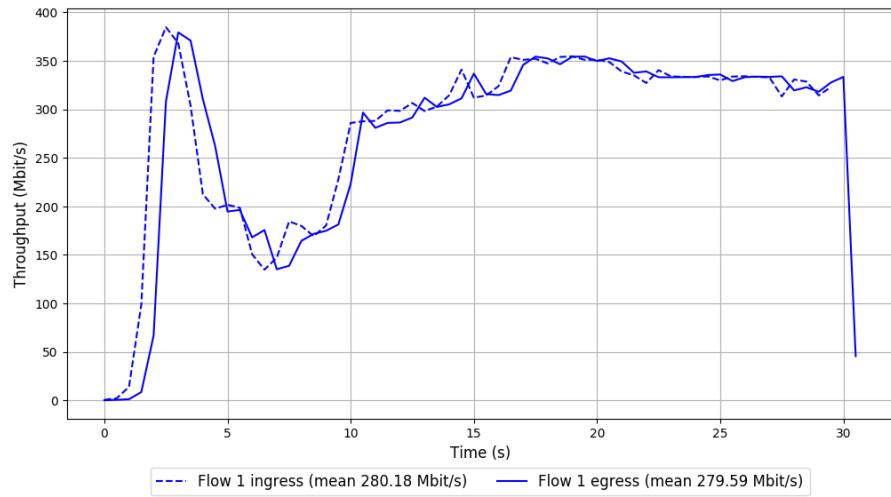


Run 5: Statistics of Copa

```
Start at: 2019-01-17 07:27:43
End at: 2019-01-17 07:28:13
Local clock offset: -0.086 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-01-17 08:18:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 279.59 Mbit/s
95th percentile per-packet one-way delay: 115.430 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 279.59 Mbit/s
95th percentile per-packet one-way delay: 115.430 ms
Loss rate: 0.21%
```

Run 5: Report of Copa — Data Link

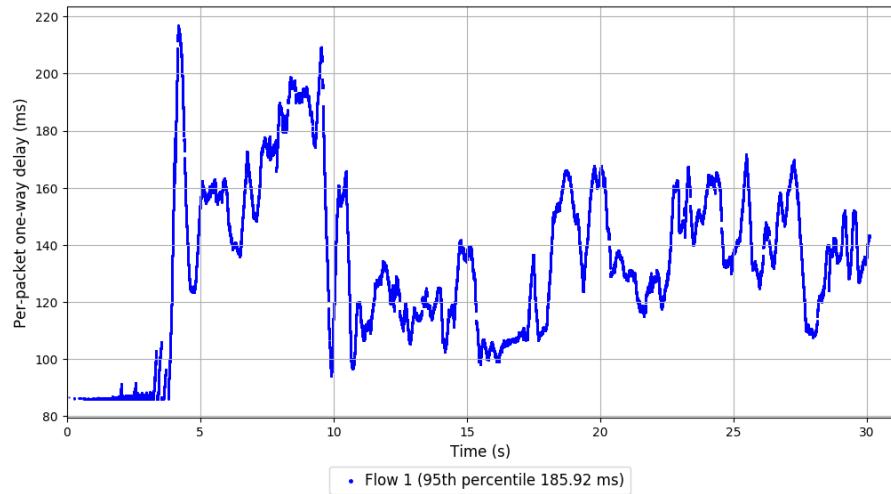
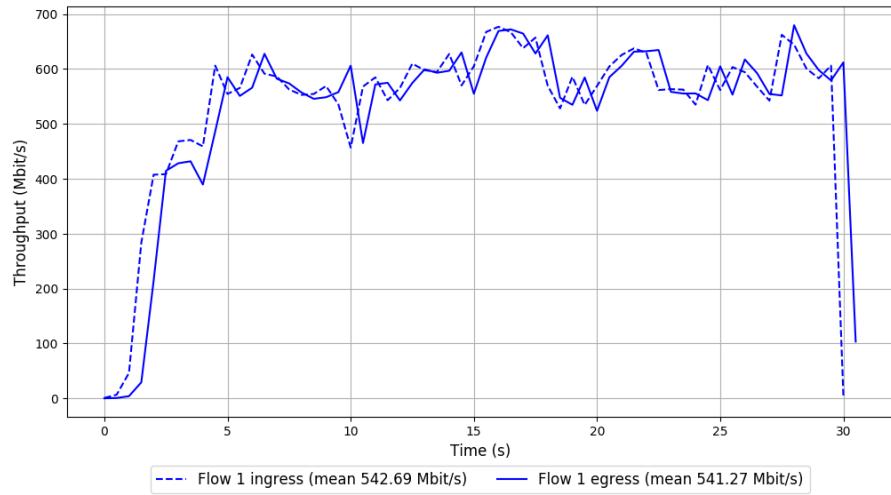


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-17 05:11:08
End at: 2019-01-17 05:11:38
Local clock offset: 1.225 ms
Remote clock offset: 3.473 ms

# Below is generated by plot.py at 2019-01-17 08:19:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 541.27 Mbit/s
95th percentile per-packet one-way delay: 185.920 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 541.27 Mbit/s
95th percentile per-packet one-way delay: 185.920 ms
Loss rate: 0.26%
```

Run 1: Report of TCP Cubic — Data Link

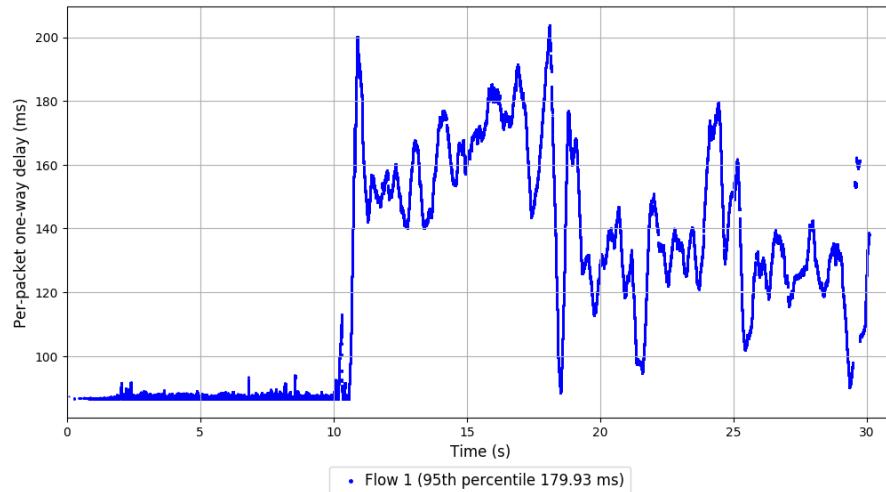
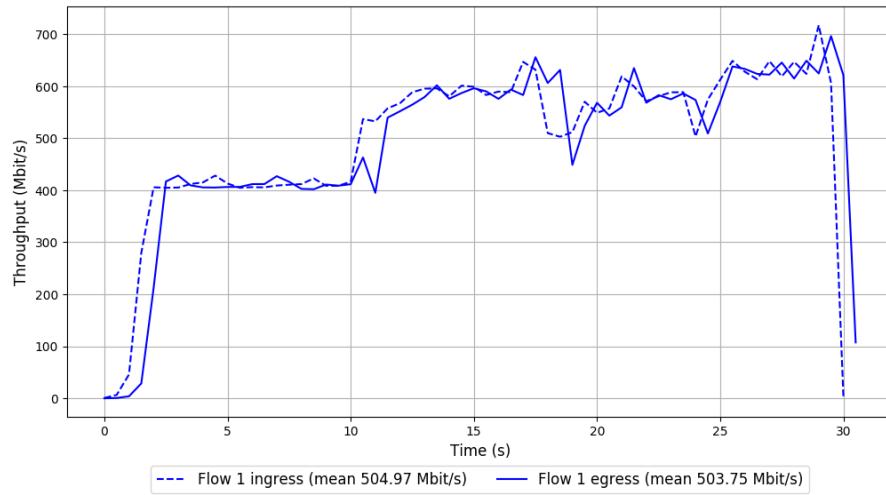


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-17 05:42:52
End at: 2019-01-17 05:43:22
Local clock offset: 0.32 ms
Remote clock offset: 0.899 ms

# Below is generated by plot.py at 2019-01-17 08:19:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 503.75 Mbit/s
95th percentile per-packet one-way delay: 179.933 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 503.75 Mbit/s
95th percentile per-packet one-way delay: 179.933 ms
Loss rate: 0.24%
```

Run 2: Report of TCP Cubic — Data Link

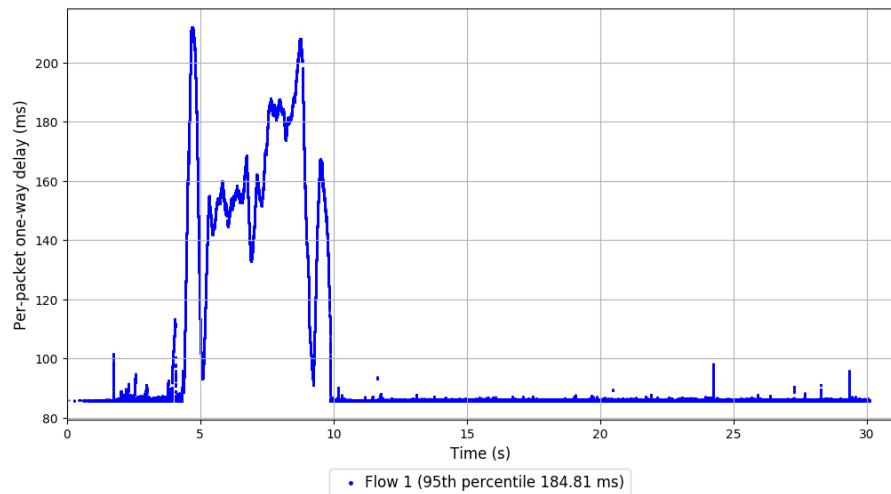
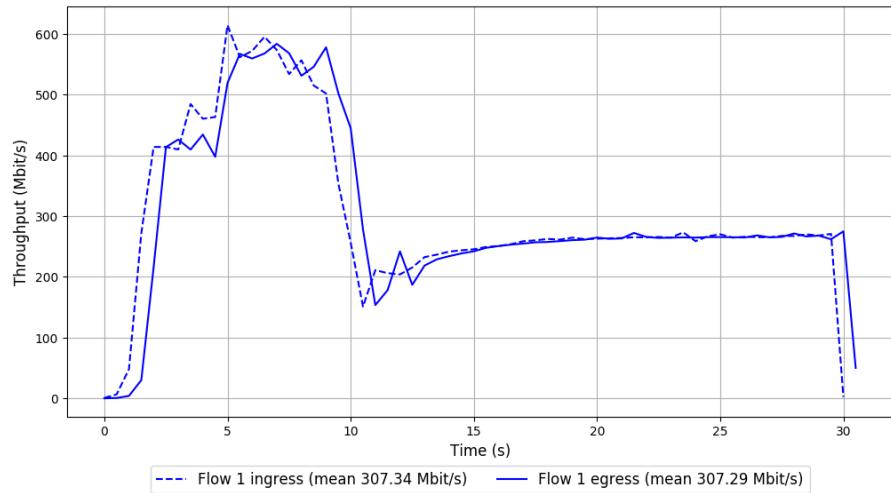


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-17 06:14:27
End at: 2019-01-17 06:14:57
Local clock offset: 0.408 ms
Remote clock offset: 0.402 ms

# Below is generated by plot.py at 2019-01-17 08:19:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 307.29 Mbit/s
95th percentile per-packet one-way delay: 184.805 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 307.29 Mbit/s
95th percentile per-packet one-way delay: 184.805 ms
Loss rate: 0.02%
```

Run 3: Report of TCP Cubic — Data Link

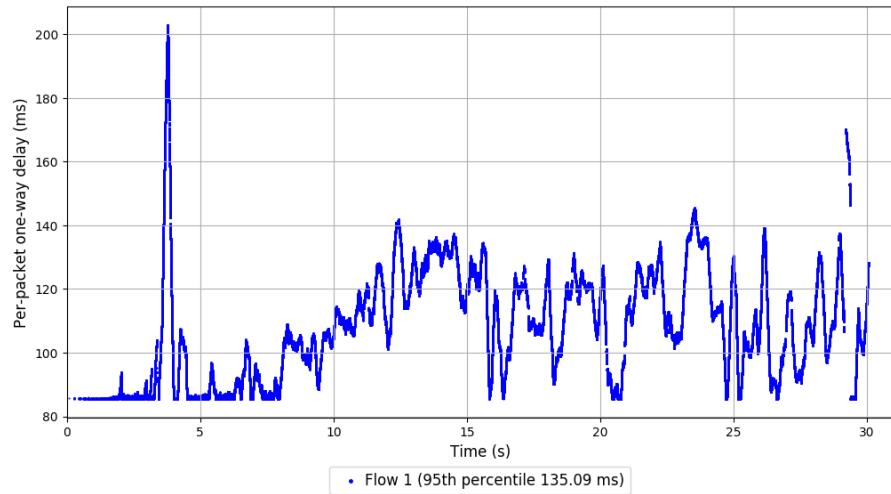
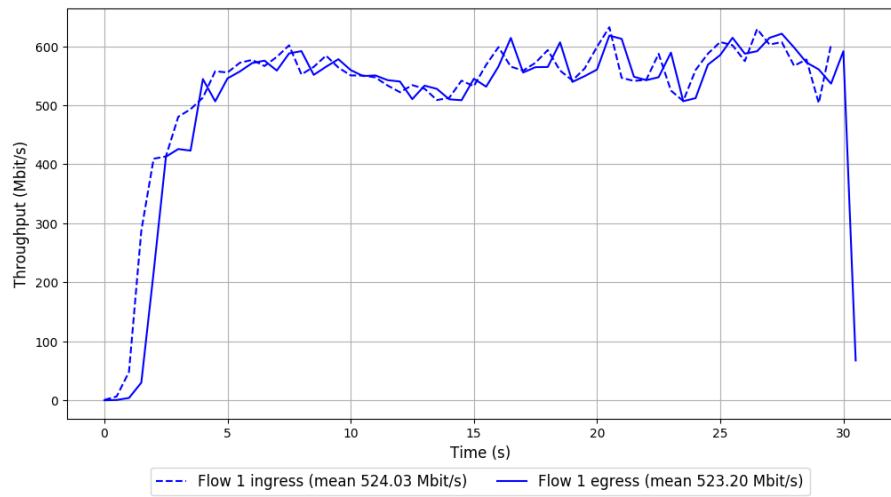


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-17 06:45:46
End at: 2019-01-17 06:46:16
Local clock offset: 0.391 ms
Remote clock offset: 0.184 ms

# Below is generated by plot.py at 2019-01-17 08:19:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 523.20 Mbit/s
95th percentile per-packet one-way delay: 135.095 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 523.20 Mbit/s
95th percentile per-packet one-way delay: 135.095 ms
Loss rate: 0.16%
```

Run 4: Report of TCP Cubic — Data Link

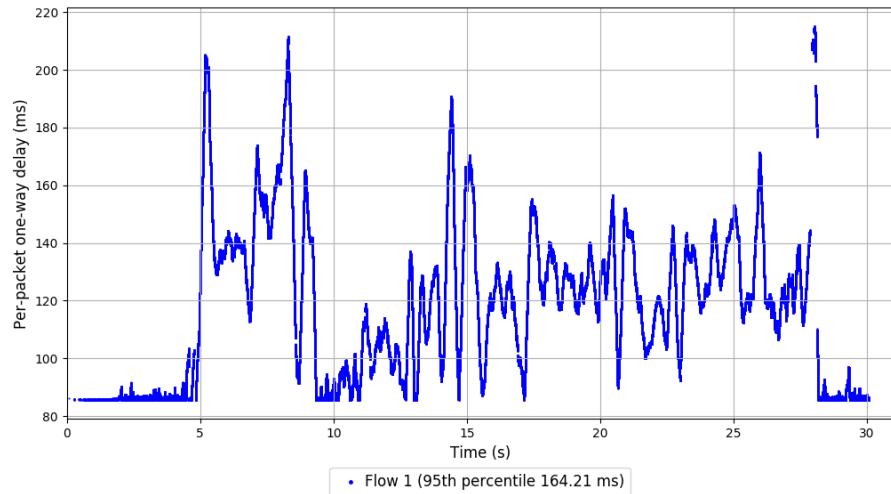
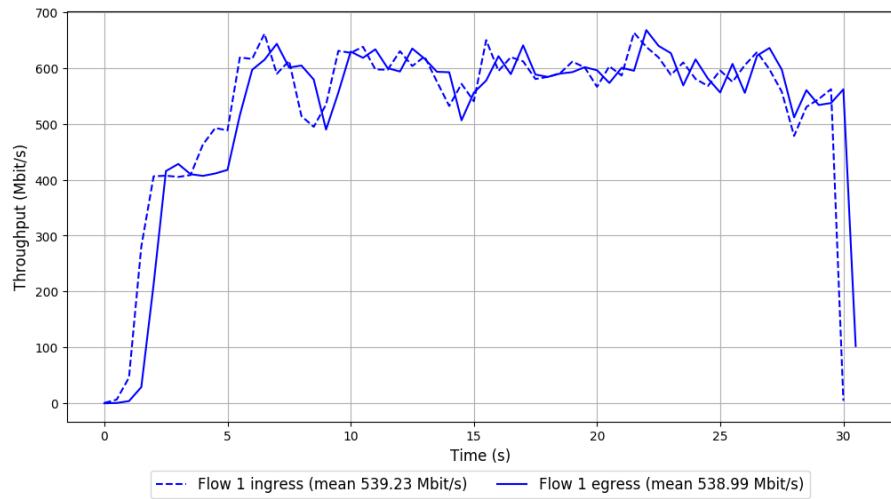


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-17 07:17:14
End at: 2019-01-17 07:17:44
Local clock offset: 0.098 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2019-01-17 08:20:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 538.99 Mbit/s
95th percentile per-packet one-way delay: 164.213 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 538.99 Mbit/s
95th percentile per-packet one-way delay: 164.213 ms
Loss rate: 0.05%
```

Run 5: Report of TCP Cubic — Data Link

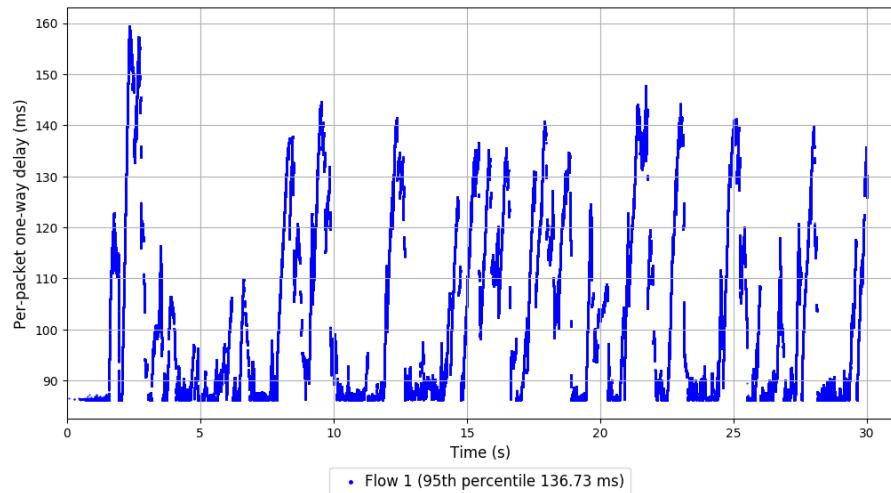
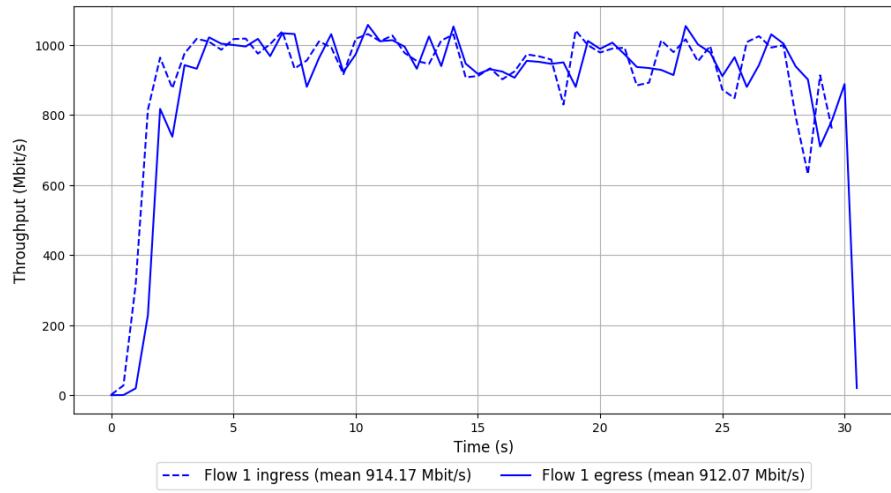


```
Run 1: Statistics of FillP
```

```
Start at: 2019-01-17 05:34:40
End at: 2019-01-17 05:35:10
Local clock offset: 0.358 ms
Remote clock offset: 0.904 ms

# Below is generated by plot.py at 2019-01-17 08:29:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 912.07 Mbit/s
95th percentile per-packet one-way delay: 136.728 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 912.07 Mbit/s
95th percentile per-packet one-way delay: 136.728 ms
Loss rate: 0.33%
```

Run 1: Report of FillP — Data Link

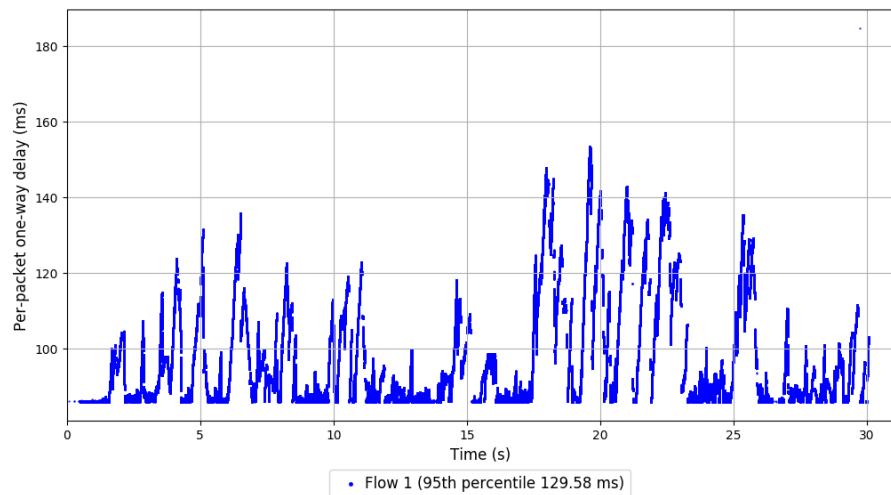
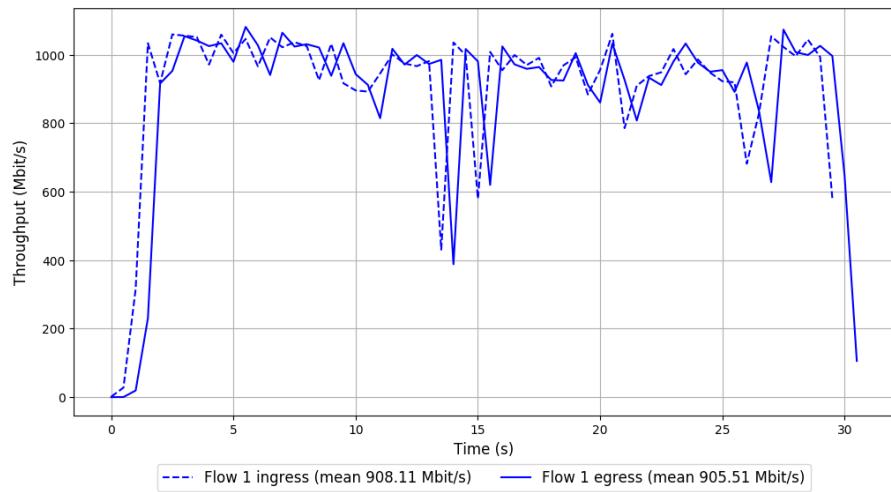


Run 2: Statistics of FillP

```
Start at: 2019-01-17 06:06:20
End at: 2019-01-17 06:06:50
Local clock offset: 0.227 ms
Remote clock offset: 0.335 ms

# Below is generated by plot.py at 2019-01-17 08:37:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 905.51 Mbit/s
95th percentile per-packet one-way delay: 129.576 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 905.51 Mbit/s
95th percentile per-packet one-way delay: 129.576 ms
Loss rate: 0.28%
```

Run 2: Report of FillP — Data Link

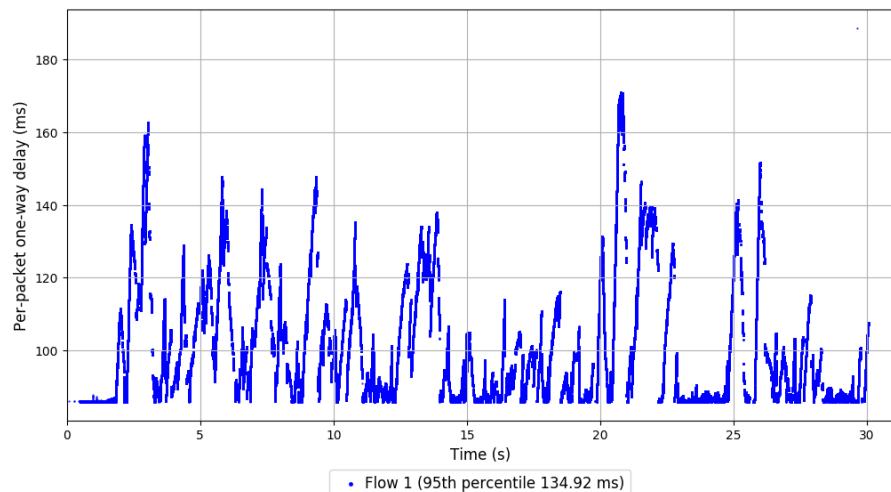
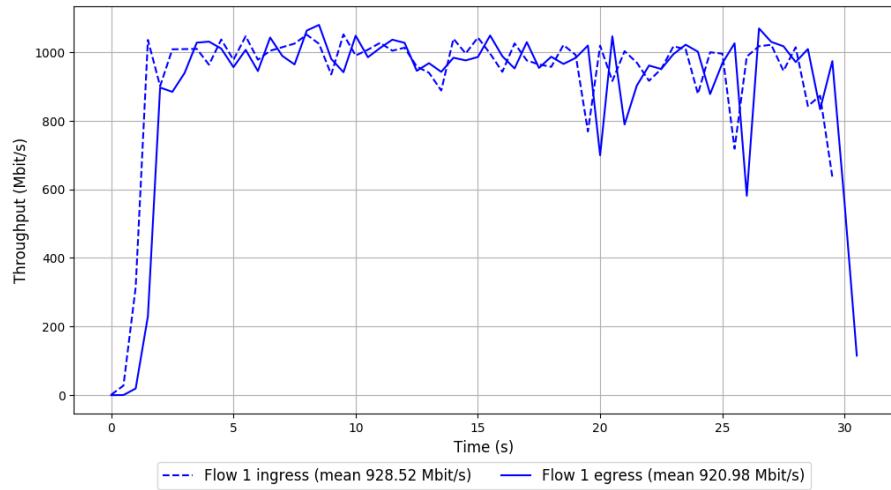


Run 3: Statistics of FillP

```
Start at: 2019-01-17 06:37:34
End at: 2019-01-17 06:38:04
Local clock offset: 0.41 ms
Remote clock offset: 0.169 ms

# Below is generated by plot.py at 2019-01-17 08:39:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 920.98 Mbit/s
95th percentile per-packet one-way delay: 134.921 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 920.98 Mbit/s
95th percentile per-packet one-way delay: 134.921 ms
Loss rate: 0.81%
```

Run 3: Report of FillP — Data Link

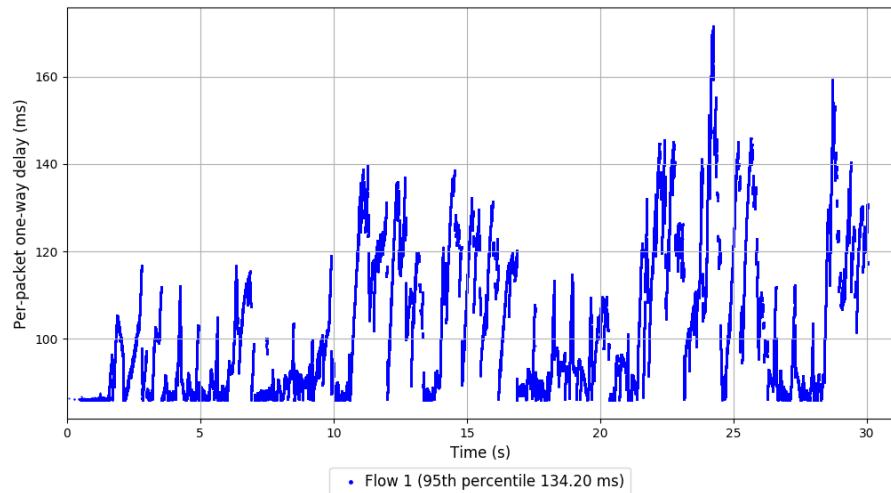
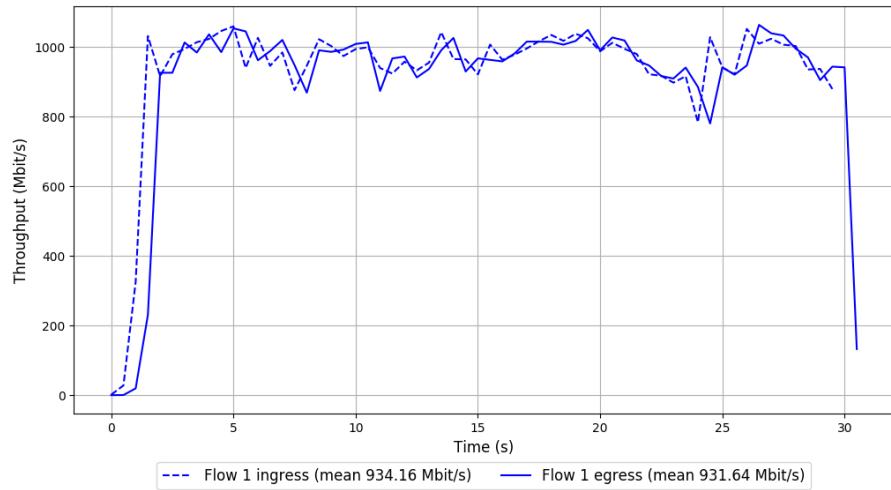


Run 4: Statistics of FillP

```
Start at: 2019-01-17 07:09:09
End at: 2019-01-17 07:09:39
Local clock offset: -0.095 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-01-17 08:40:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 931.64 Mbit/s
95th percentile per-packet one-way delay: 134.198 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 931.64 Mbit/s
95th percentile per-packet one-way delay: 134.198 ms
Loss rate: 0.27%
```

Run 4: Report of FillP — Data Link

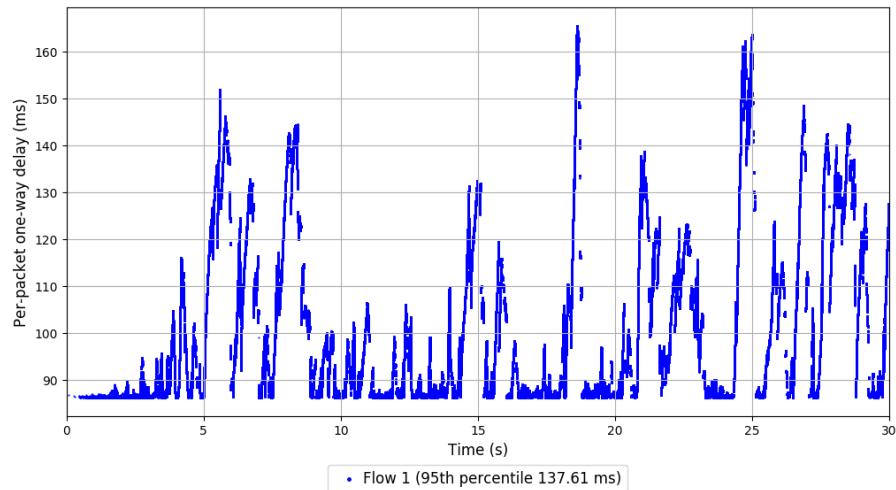
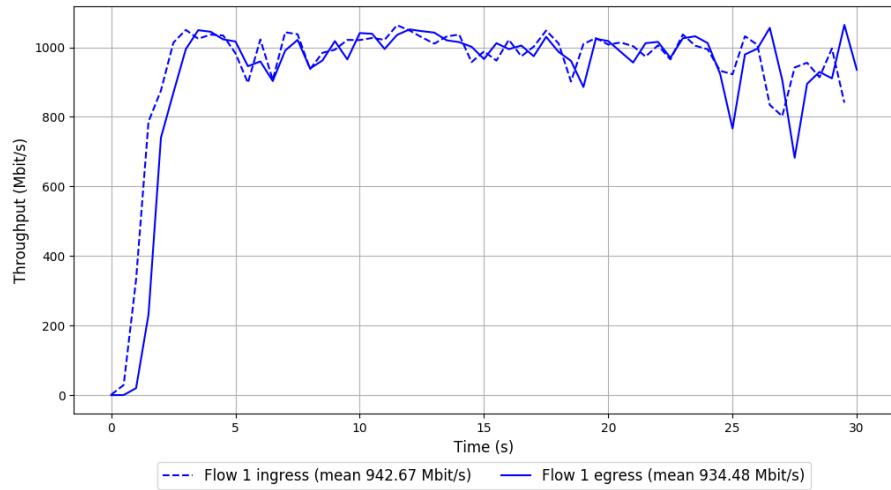


Run 5: Statistics of FillP

```
Start at: 2019-01-17 07:41:00
End at: 2019-01-17 07:41:30
Local clock offset: -0.396 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2019-01-17 08:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 934.48 Mbit/s
95th percentile per-packet one-way delay: 137.614 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 934.48 Mbit/s
95th percentile per-packet one-way delay: 137.614 ms
Loss rate: 0.87%
```

Run 5: Report of FillP — Data Link

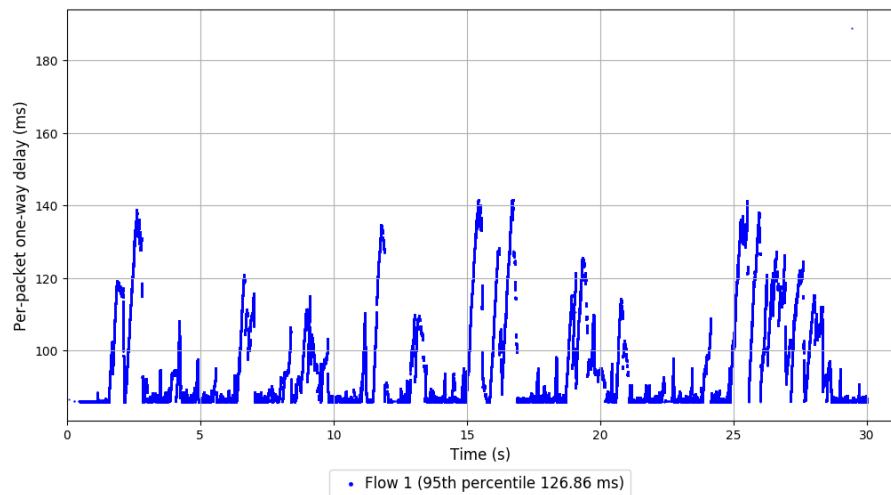
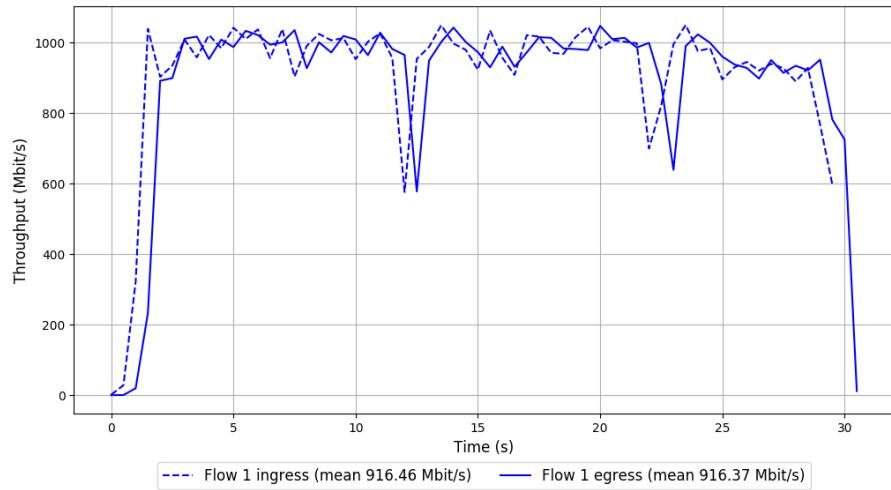


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-17 05:37:58
End at: 2019-01-17 05:38:28
Local clock offset: 0.719 ms
Remote clock offset: 0.922 ms

# Below is generated by plot.py at 2019-01-17 08:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 916.37 Mbit/s
95th percentile per-packet one-way delay: 126.861 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 916.37 Mbit/s
95th percentile per-packet one-way delay: 126.861 ms
Loss rate: 0.01%
```

Run 1: Report of FillP-Sheep — Data Link

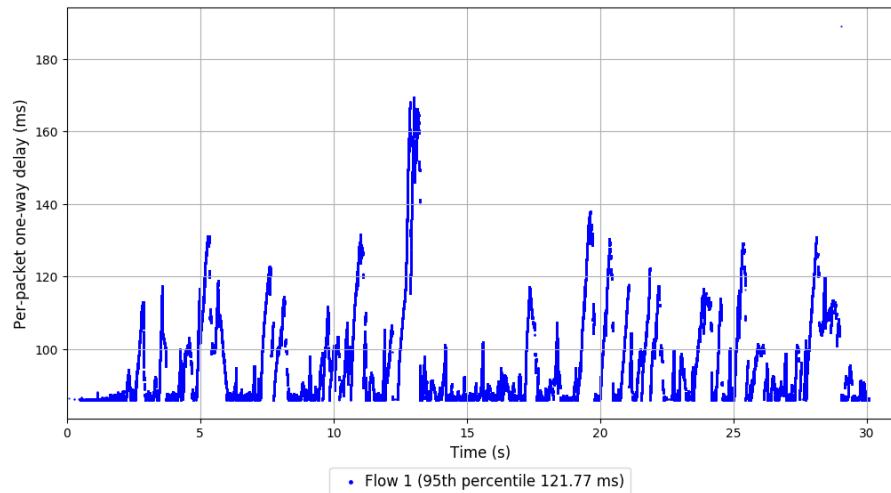
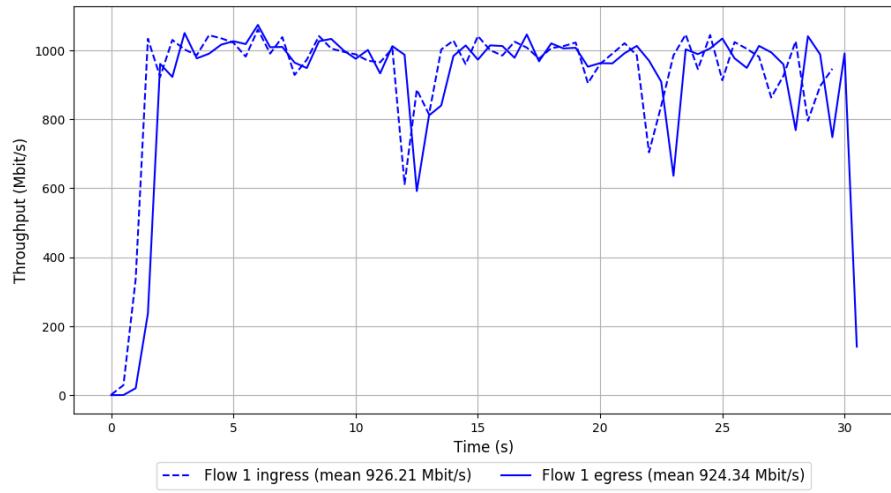


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-17 06:09:38
End at: 2019-01-17 06:10:08
Local clock offset: 0.192 ms
Remote clock offset: 0.39 ms

# Below is generated by plot.py at 2019-01-17 08:41:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 924.34 Mbit/s
95th percentile per-packet one-way delay: 121.768 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 924.34 Mbit/s
95th percentile per-packet one-way delay: 121.768 ms
Loss rate: 0.20%
```

Run 2: Report of FillP-Sheep — Data Link

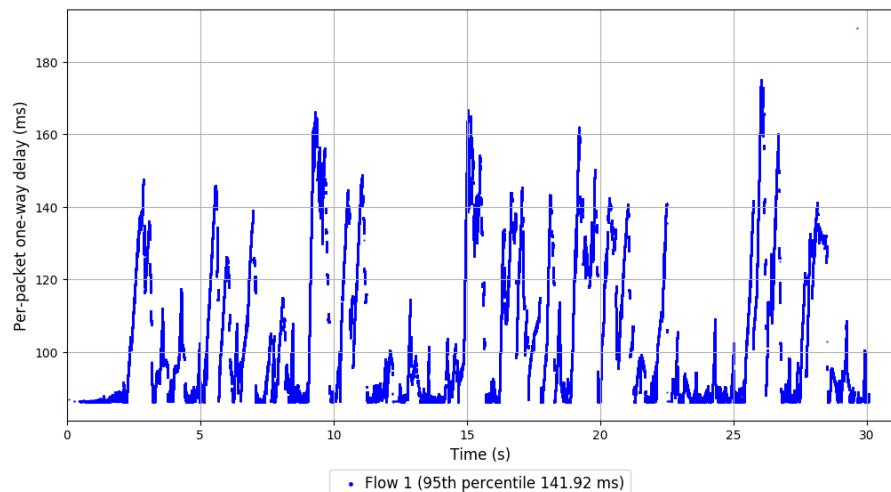
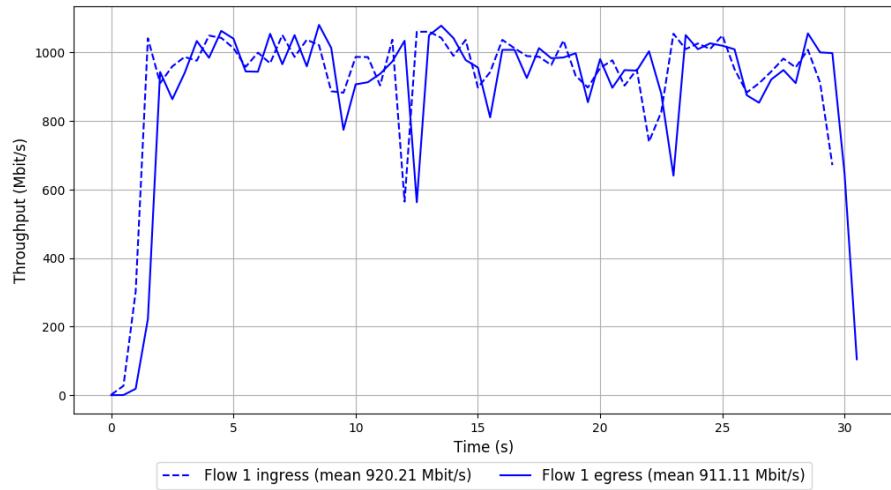


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-17 06:40:51
End at: 2019-01-17 06:41:21
Local clock offset: -0.182 ms
Remote clock offset: 0.307 ms

# Below is generated by plot.py at 2019-01-17 08:41:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 911.11 Mbit/s
95th percentile per-packet one-way delay: 141.924 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 911.11 Mbit/s
95th percentile per-packet one-way delay: 141.924 ms
Loss rate: 0.99%
```

Run 3: Report of FillP-Sheep — Data Link

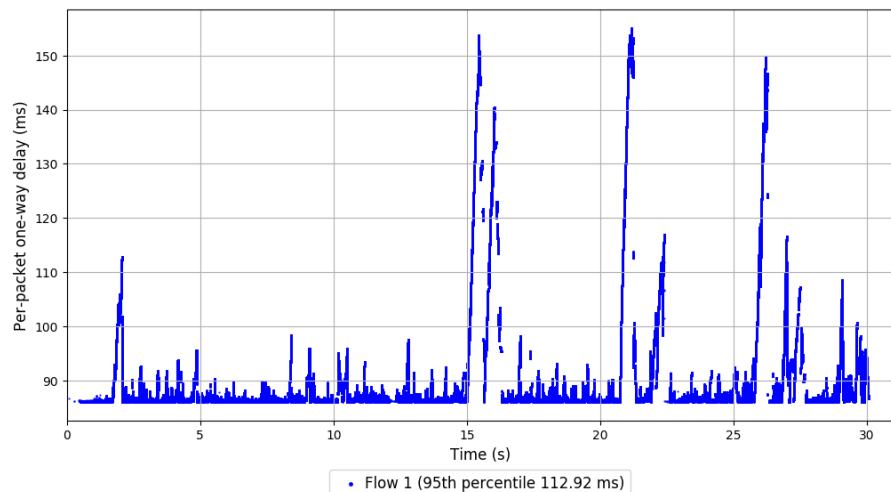
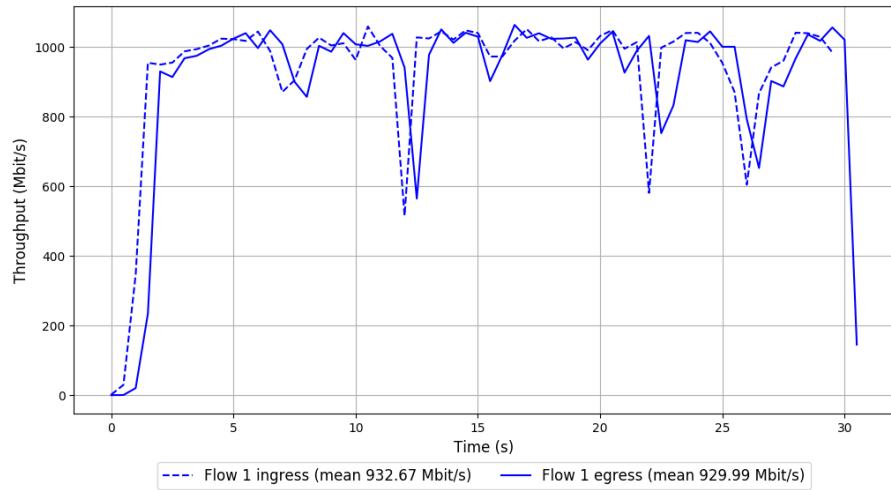


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-17 07:12:27
End at: 2019-01-17 07:12:57
Local clock offset: -0.044 ms
Remote clock offset: 0.18 ms

# Below is generated by plot.py at 2019-01-17 08:53:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 929.99 Mbit/s
95th percentile per-packet one-way delay: 112.916 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 929.99 Mbit/s
95th percentile per-packet one-way delay: 112.916 ms
Loss rate: 0.29%
```

Run 4: Report of FillP-Sheep — Data Link

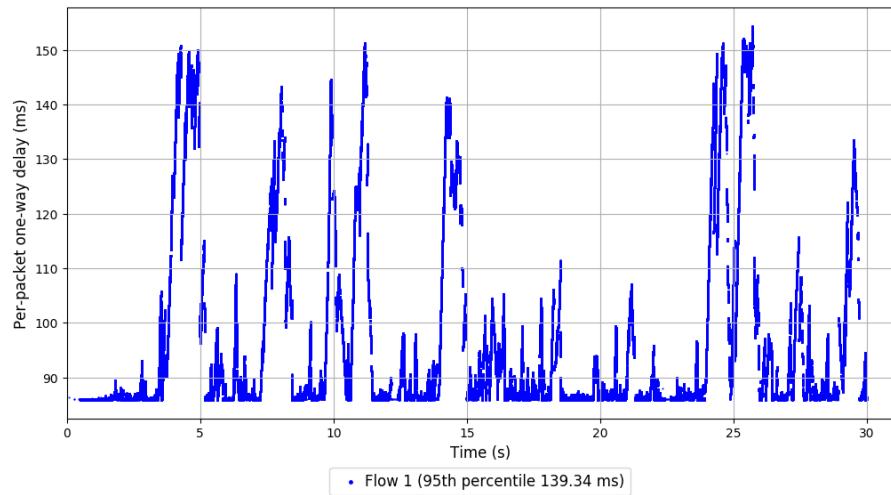
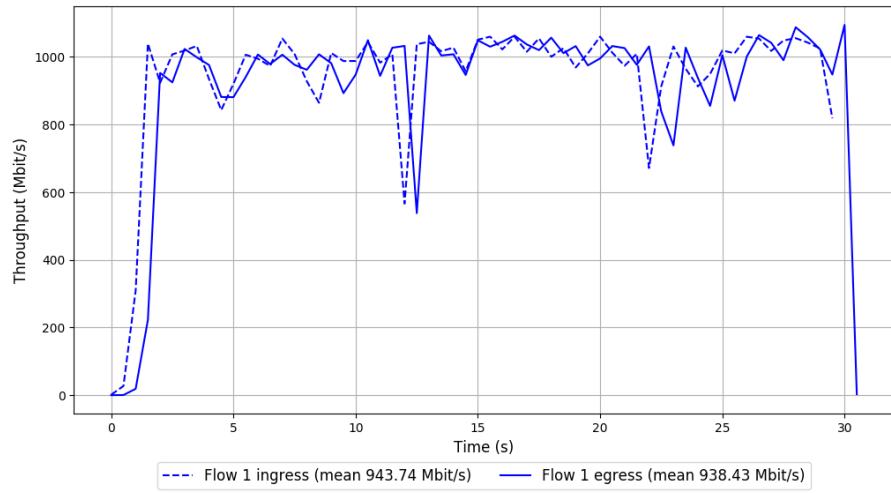


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-17 07:44:22
End at: 2019-01-17 07:44:52
Local clock offset: 0.001 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-01-17 08:58:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 938.43 Mbit/s
95th percentile per-packet one-way delay: 139.343 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 938.43 Mbit/s
95th percentile per-packet one-way delay: 139.343 ms
Loss rate: 0.56%
```

Run 5: Report of FillP-Sheep — Data Link

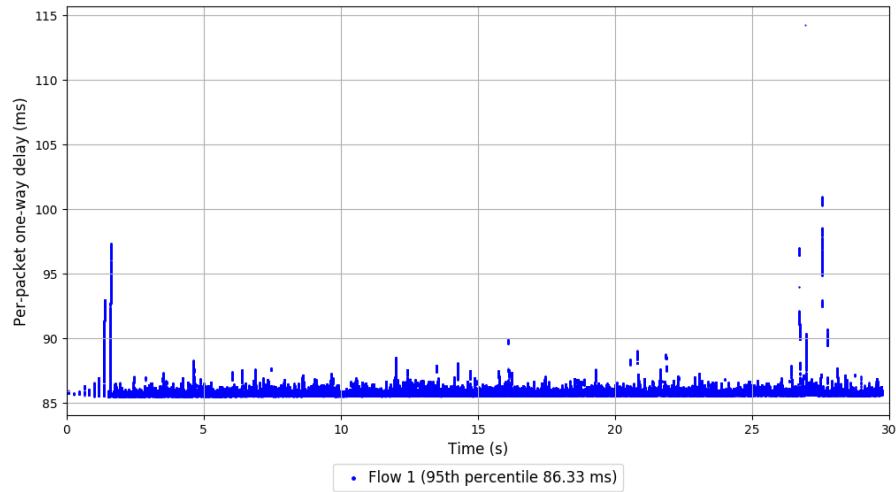
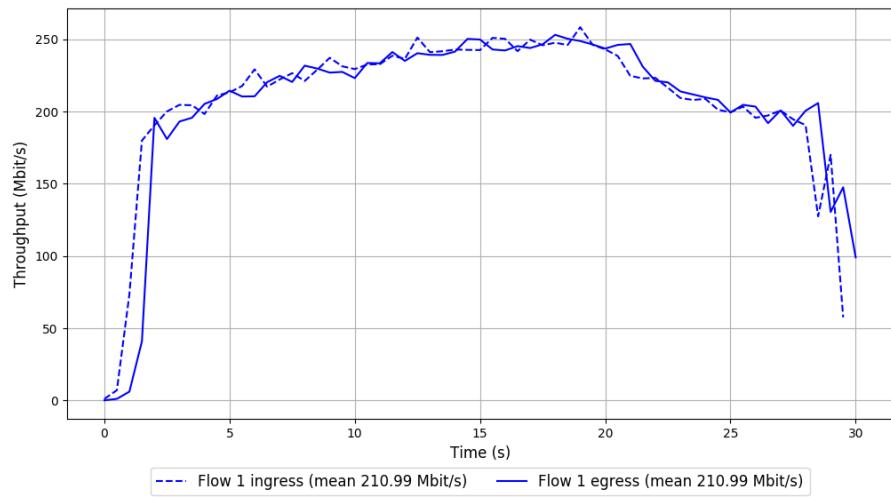


Run 1: Statistics of Indigo

```
Start at: 2019-01-17 05:12:54
End at: 2019-01-17 05:13:24
Local clock offset: 1.362 ms
Remote clock offset: 2.843 ms

# Below is generated by plot.py at 2019-01-17 08:59:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.99 Mbit/s
95th percentile per-packet one-way delay: 86.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 210.99 Mbit/s
95th percentile per-packet one-way delay: 86.332 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

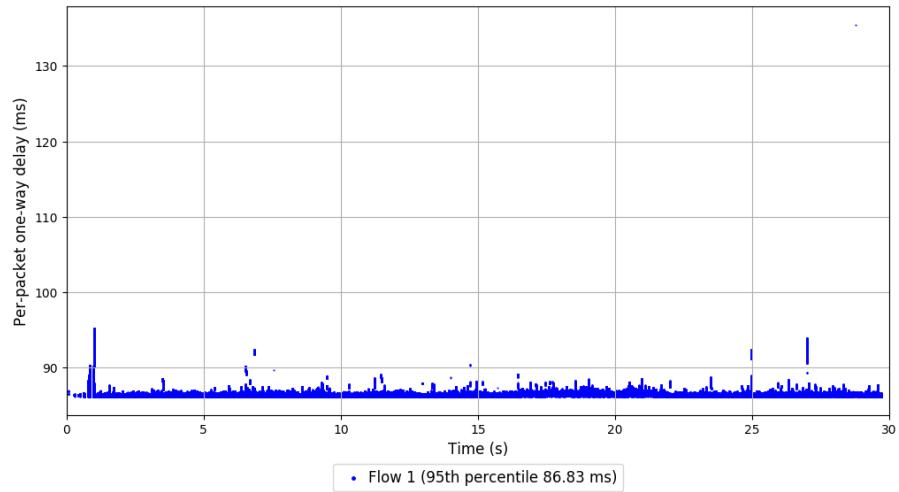
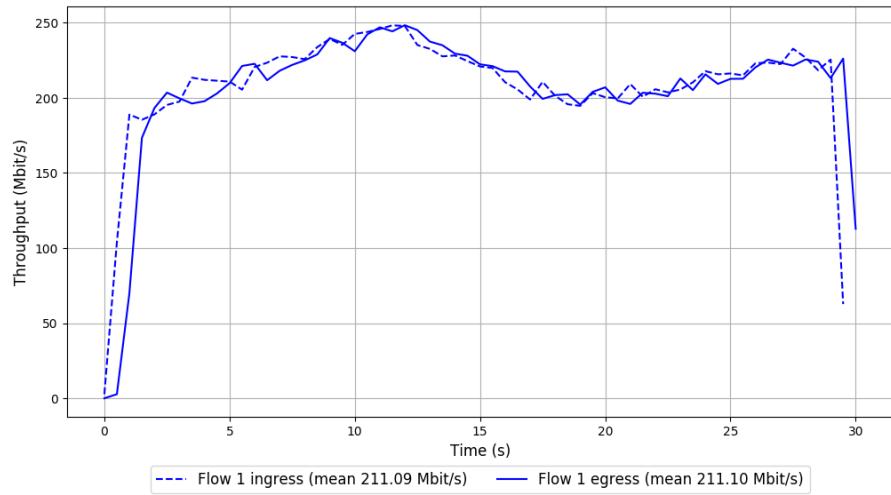


Run 2: Statistics of Indigo

```
Start at: 2019-01-17 05:44:27
End at: 2019-01-17 05:44:57
Local clock offset: 0.584 ms
Remote clock offset: 0.745 ms

# Below is generated by plot.py at 2019-01-17 08:59:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.10 Mbit/s
95th percentile per-packet one-way delay: 86.834 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.10 Mbit/s
95th percentile per-packet one-way delay: 86.834 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

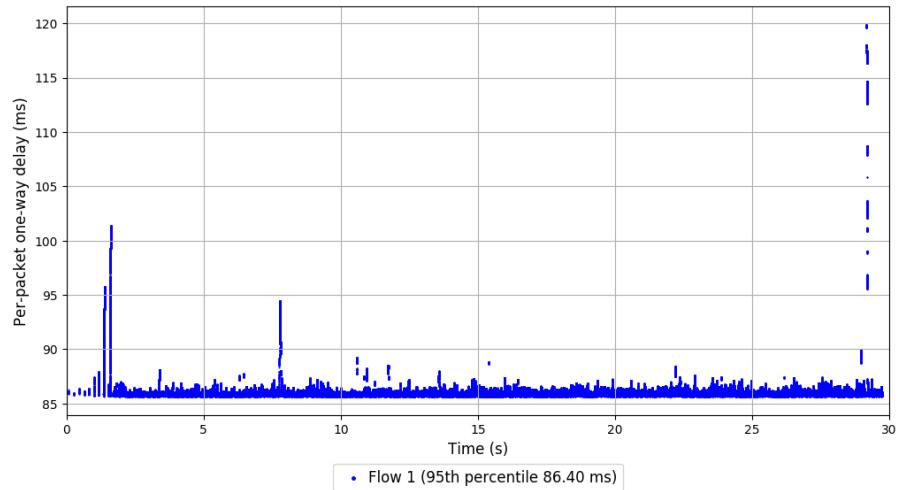
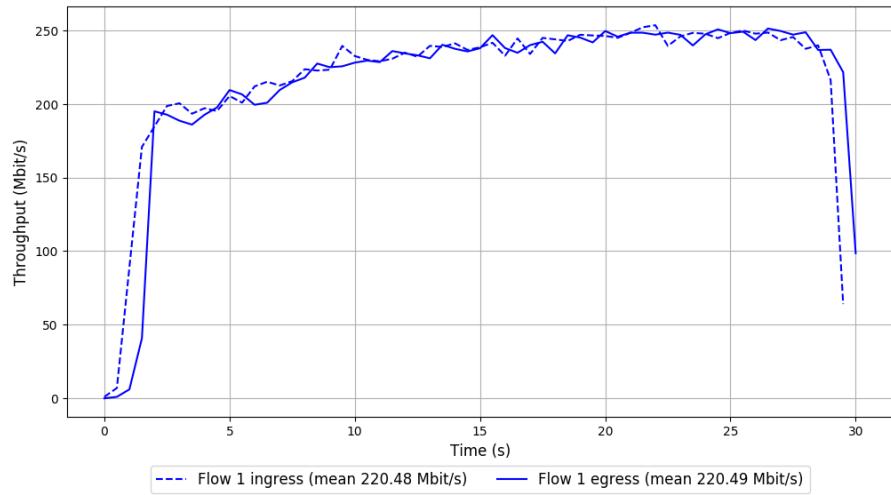


Run 3: Statistics of Indigo

```
Start at: 2019-01-17 06:15:53
End at: 2019-01-17 06:16:23
Local clock offset: 0.527 ms
Remote clock offset: 0.448 ms

# Below is generated by plot.py at 2019-01-17 08:59:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.49 Mbit/s
95th percentile per-packet one-way delay: 86.399 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.49 Mbit/s
95th percentile per-packet one-way delay: 86.399 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

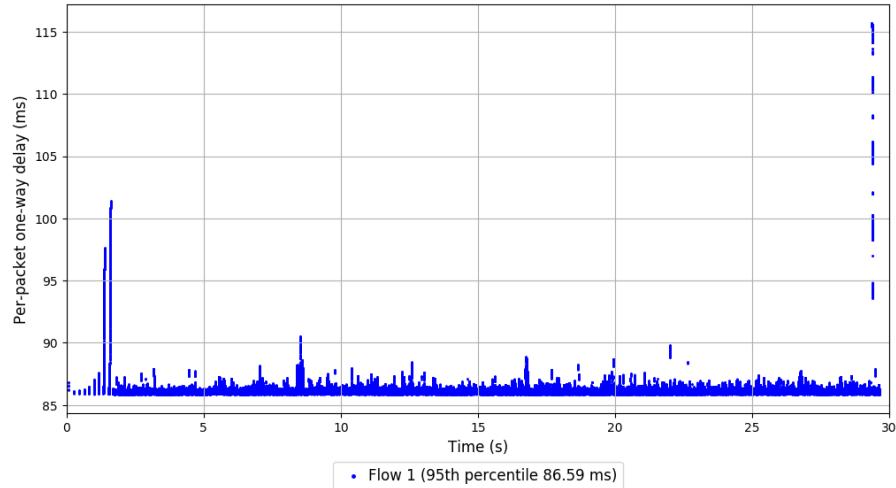
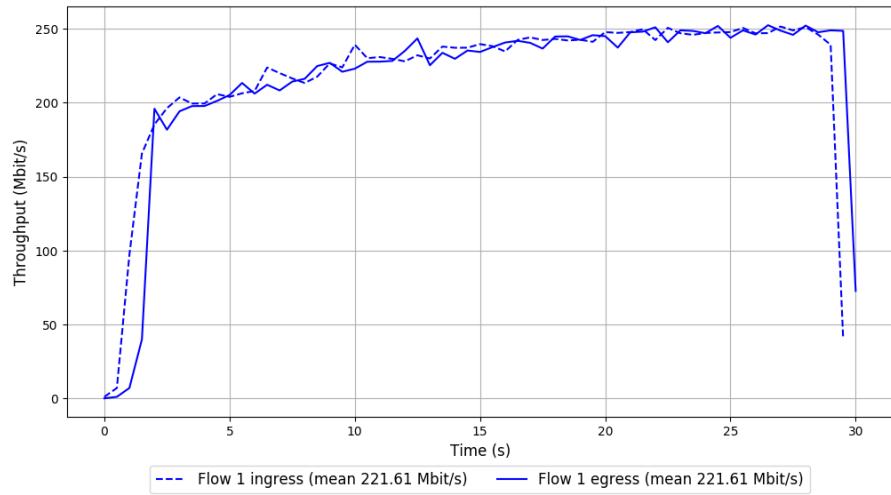


Run 4: Statistics of Indigo

```
Start at: 2019-01-17 06:47:23
End at: 2019-01-17 06:47:53
Local clock offset: -0.005 ms
Remote clock offset: 0.203 ms

# Below is generated by plot.py at 2019-01-17 08:59:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.61 Mbit/s
95th percentile per-packet one-way delay: 86.586 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.61 Mbit/s
95th percentile per-packet one-way delay: 86.586 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

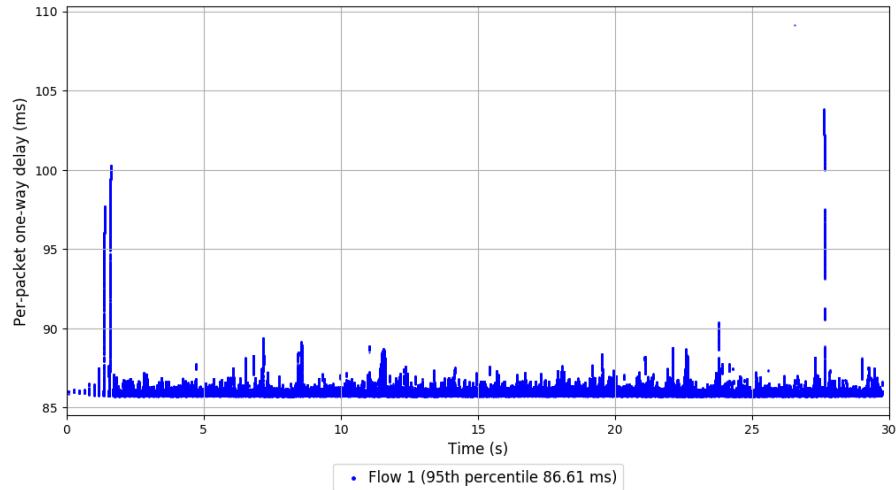
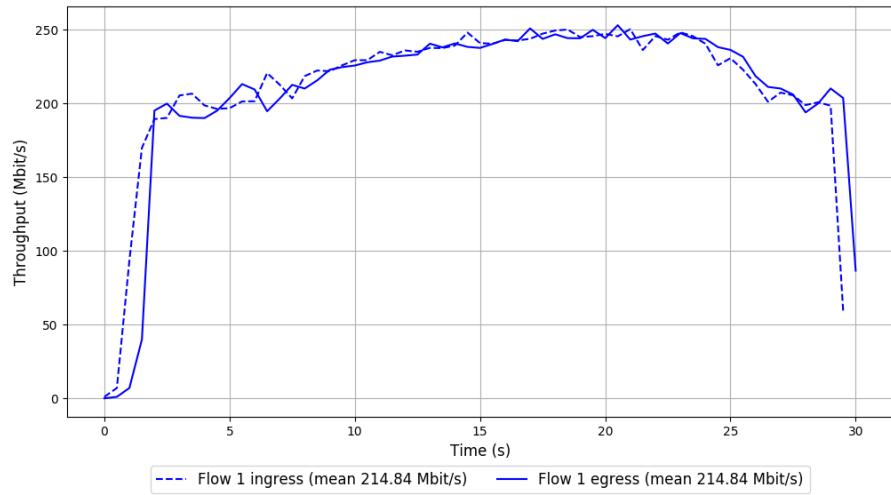


Run 5: Statistics of Indigo

```
Start at: 2019-01-17 07:18:52
End at: 2019-01-17 07:19:22
Local clock offset: 0.082 ms
Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2019-01-17 08:59:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.84 Mbit/s
95th percentile per-packet one-way delay: 86.611 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.84 Mbit/s
95th percentile per-packet one-way delay: 86.611 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

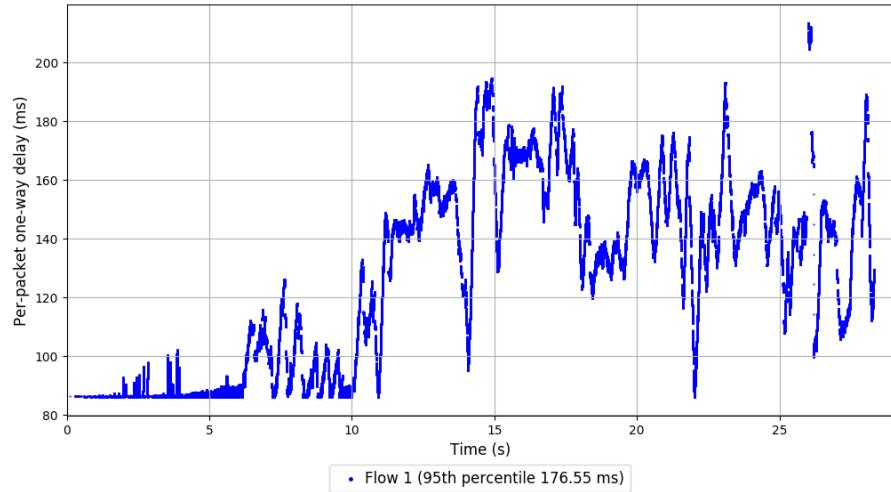
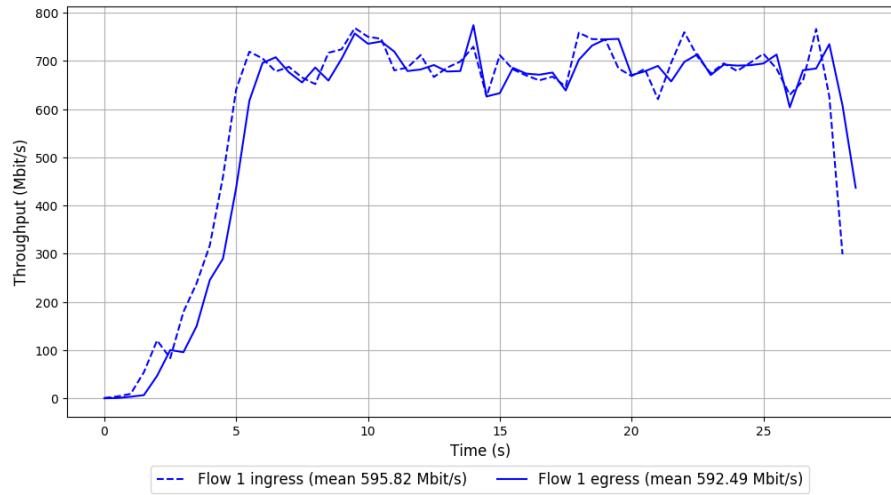


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-17 05:39:45
End at: 2019-01-17 05:40:15
Local clock offset: 0.558 ms
Remote clock offset: 0.99 ms

# Below is generated by plot.py at 2019-01-17 08:59:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 592.49 Mbit/s
95th percentile per-packet one-way delay: 176.547 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 592.49 Mbit/s
95th percentile per-packet one-way delay: 176.547 ms
Loss rate: 0.56%
```

Run 1: Report of Indigo-MusesC3 — Data Link

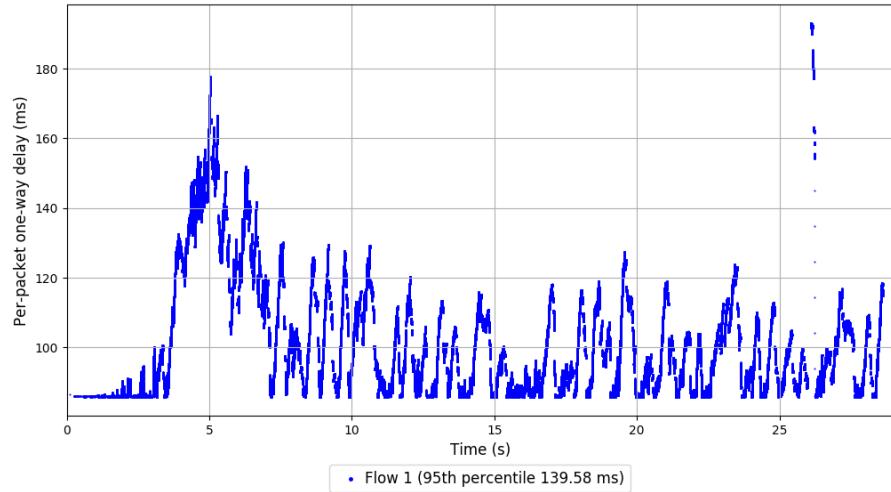
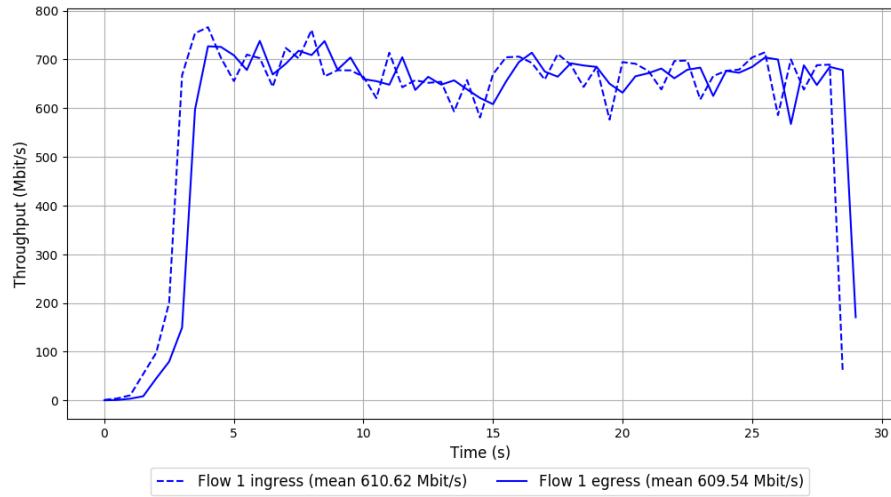


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-17 06:11:27
End at: 2019-01-17 06:11:57
Local clock offset: 0.292 ms
Remote clock offset: 0.373 ms

# Below is generated by plot.py at 2019-01-17 08:59:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 609.54 Mbit/s
95th percentile per-packet one-way delay: 139.583 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 609.54 Mbit/s
95th percentile per-packet one-way delay: 139.583 ms
Loss rate: 0.18%
```

Run 2: Report of Indigo-MusesC3 — Data Link

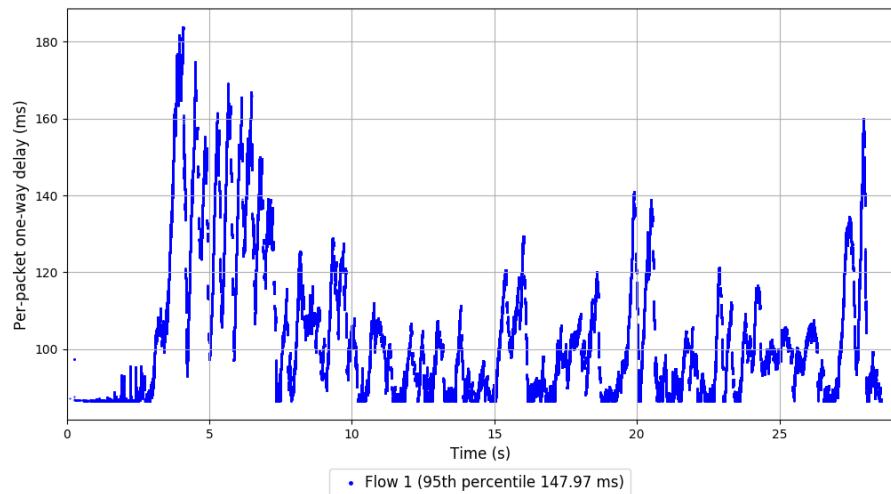
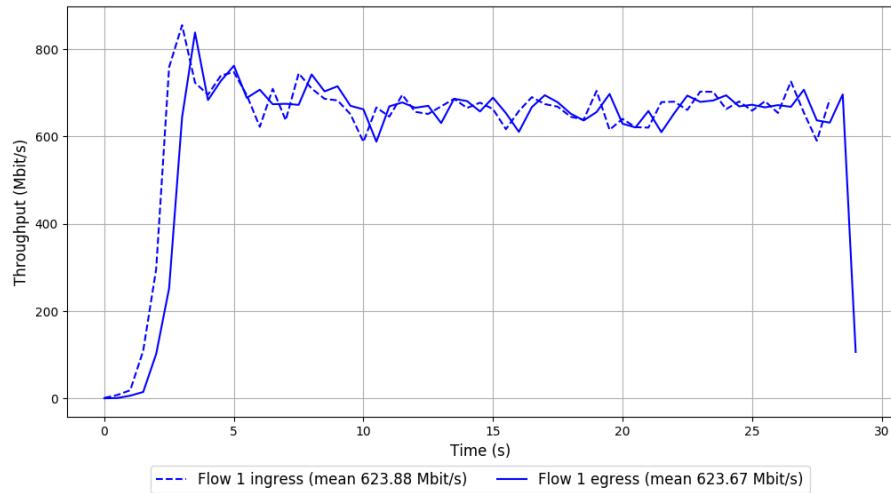


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-17 06:42:40
End at: 2019-01-17 06:43:10
Local clock offset: -0.229 ms
Remote clock offset: 0.183 ms

# Below is generated by plot.py at 2019-01-17 08:59:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 623.67 Mbit/s
95th percentile per-packet one-way delay: 147.965 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 623.67 Mbit/s
95th percentile per-packet one-way delay: 147.965 ms
Loss rate: 0.04%
```

Run 3: Report of Indigo-MusesC3 — Data Link

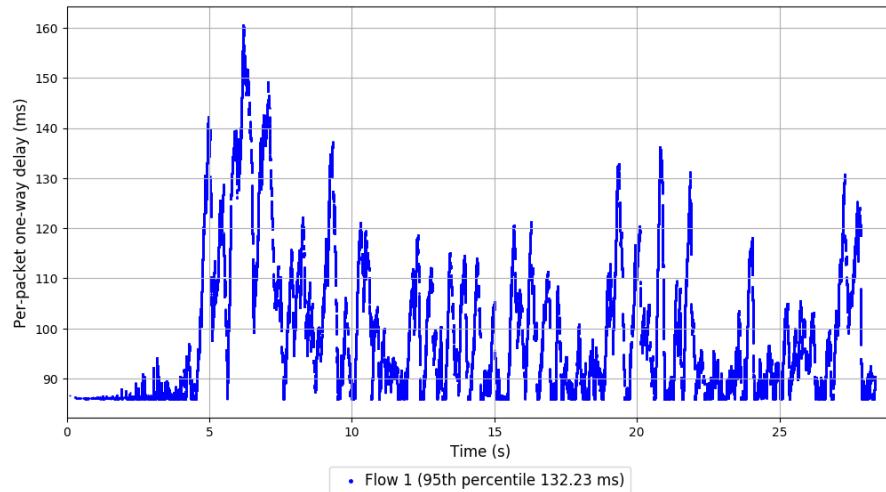
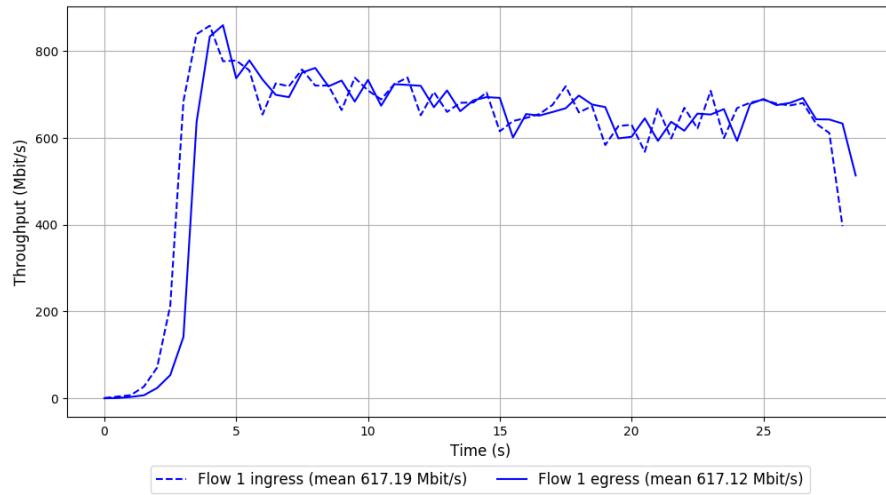


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-17 07:14:15
End at: 2019-01-17 07:14:45
Local clock offset: -0.14 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2019-01-17 08:59:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 617.12 Mbit/s
95th percentile per-packet one-way delay: 132.228 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 617.12 Mbit/s
95th percentile per-packet one-way delay: 132.228 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-MusesC3 — Data Link

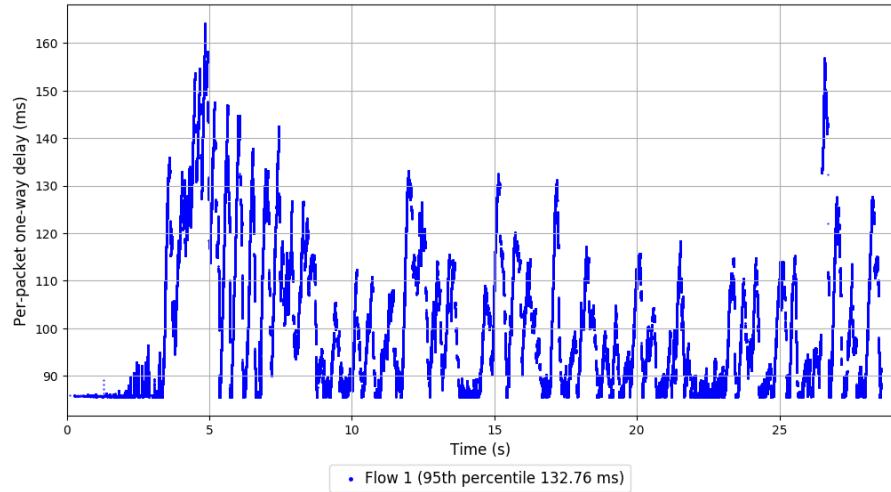
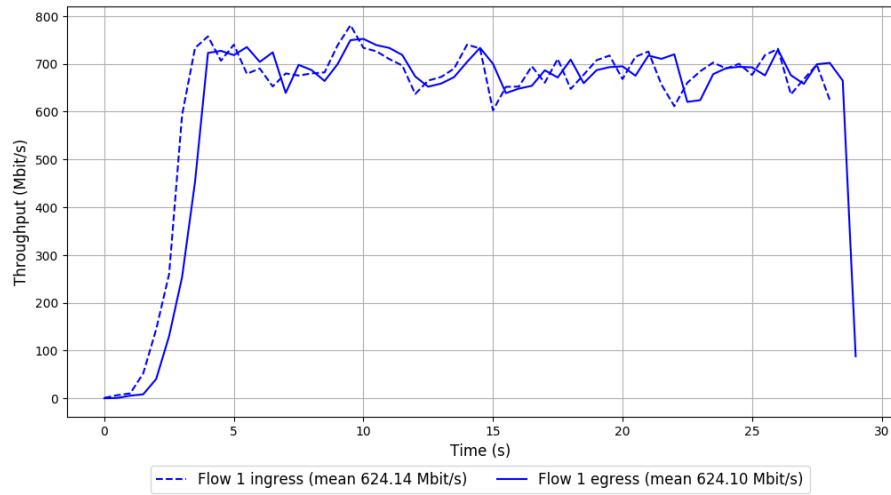


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-17 07:46:12
End at: 2019-01-17 07:46:42
Local clock offset: 0.328 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-01-17 09:00:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 624.10 Mbit/s
95th percentile per-packet one-way delay: 132.758 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 624.10 Mbit/s
95th percentile per-packet one-way delay: 132.758 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC3 — Data Link

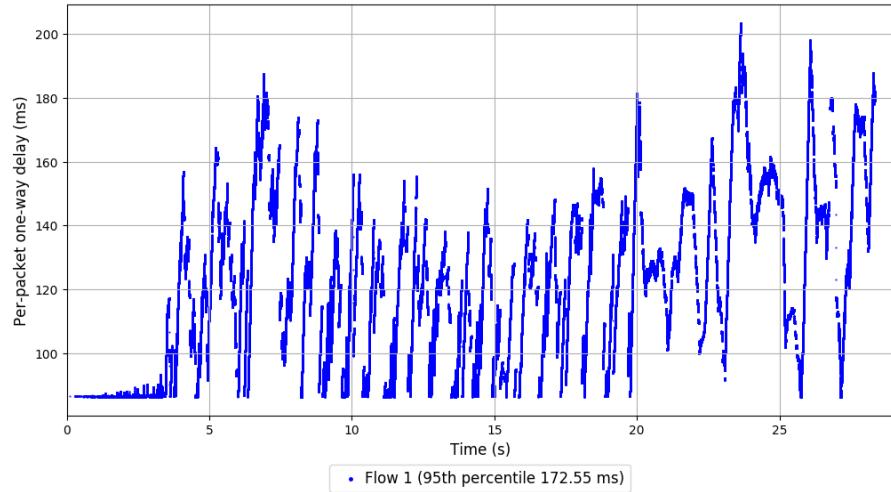
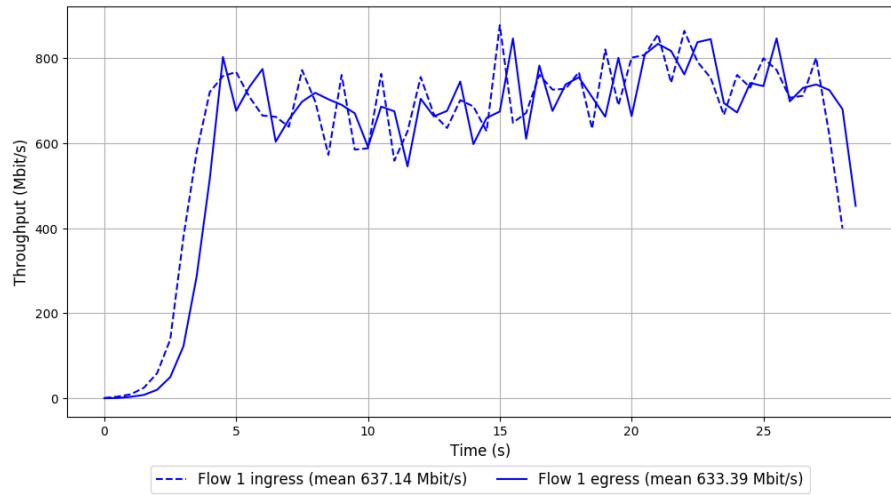


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-01-17 05:20:18
End at: 2019-01-17 05:20:48
Local clock offset: 0.449 ms
Remote clock offset: 1.465 ms

# Below is generated by plot.py at 2019-01-17 09:00:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 633.39 Mbit/s
95th percentile per-packet one-way delay: 172.546 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 633.39 Mbit/s
95th percentile per-packet one-way delay: 172.546 ms
Loss rate: 0.59%
```

Run 1: Report of Indigo-MusesC5 — Data Link

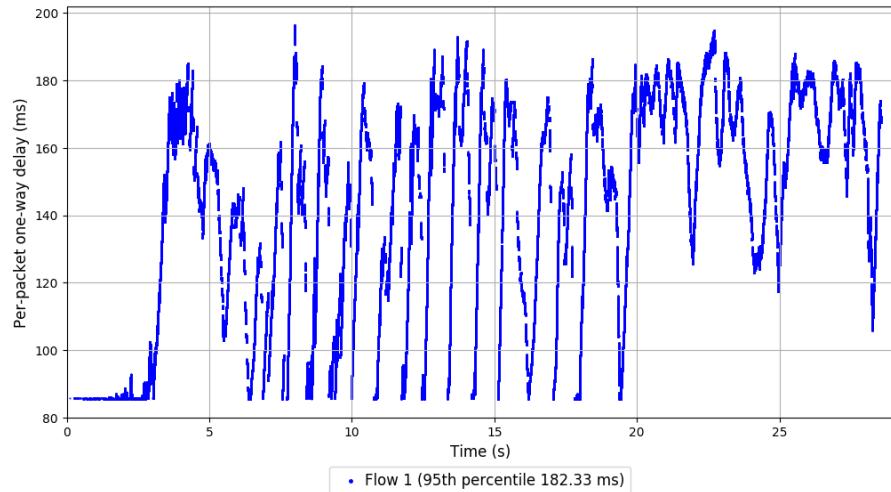
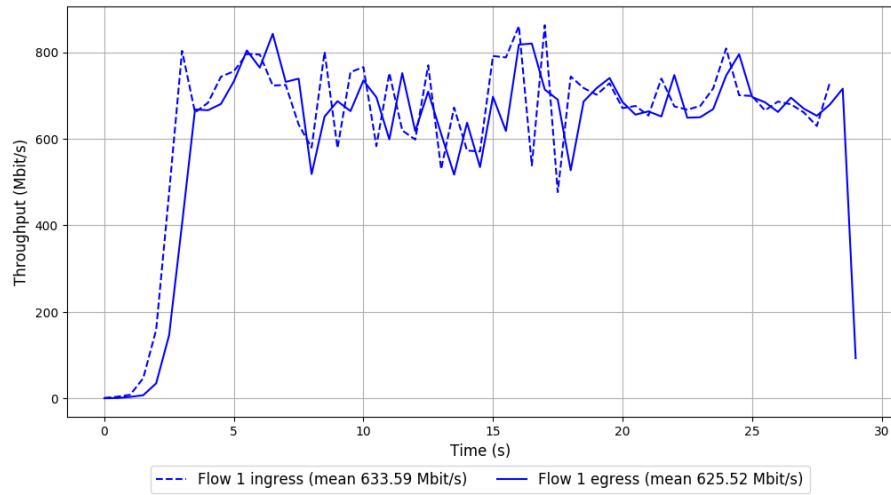


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-17 05:51:45
End at: 2019-01-17 05:52:15
Local clock offset: 0.697 ms
Remote clock offset: 0.444 ms

# Below is generated by plot.py at 2019-01-17 09:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 625.52 Mbit/s
95th percentile per-packet one-way delay: 182.334 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 625.52 Mbit/s
95th percentile per-packet one-way delay: 182.334 ms
Loss rate: 1.27%
```

Run 2: Report of Indigo-MusesC5 — Data Link

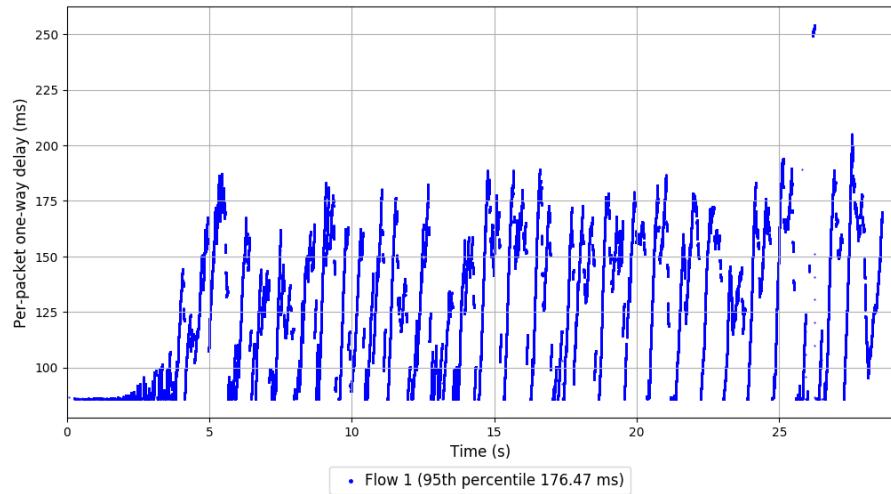
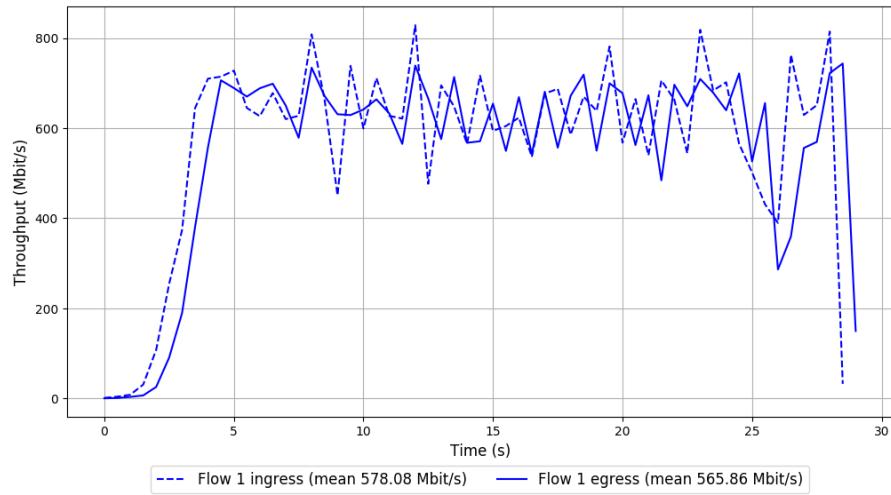


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-17 06:23:13
End at: 2019-01-17 06:23:43
Local clock offset: 0.127 ms
Remote clock offset: 0.206 ms

# Below is generated by plot.py at 2019-01-17 09:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 565.86 Mbit/s
95th percentile per-packet one-way delay: 176.465 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 565.86 Mbit/s
95th percentile per-packet one-way delay: 176.465 ms
Loss rate: 2.11%
```

Run 3: Report of Indigo-MusesC5 — Data Link

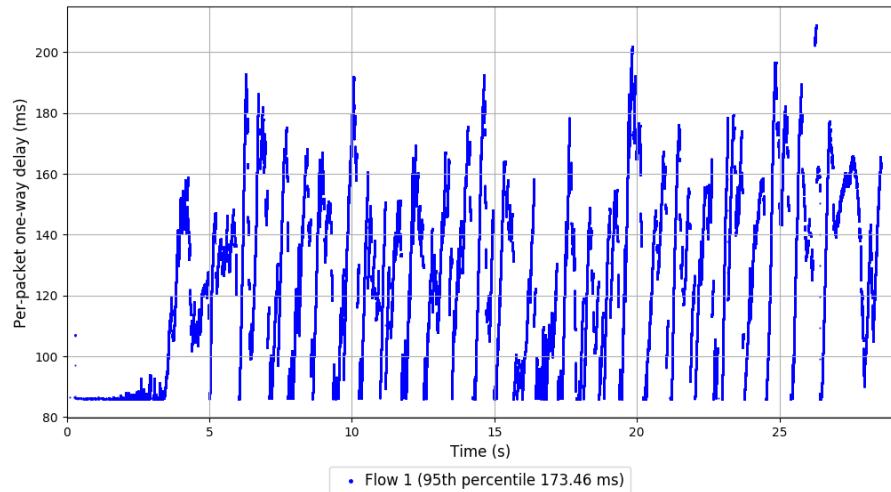
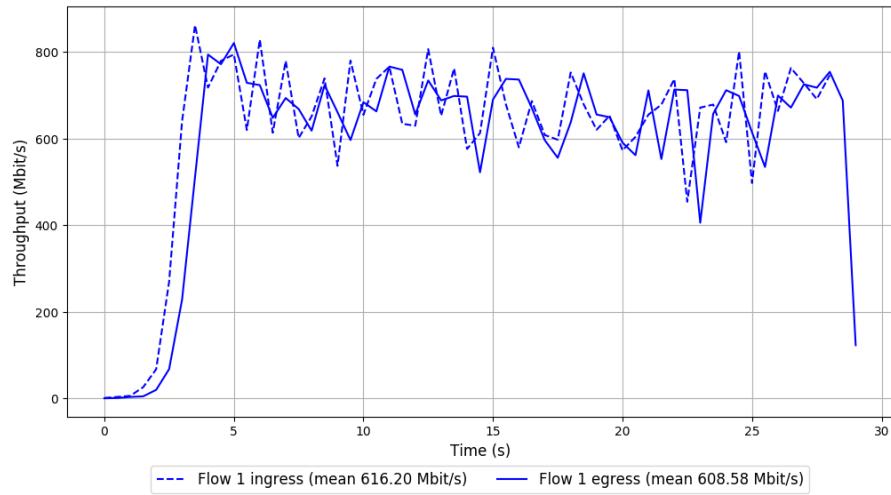


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-17 06:54:37
End at: 2019-01-17 06:55:07
Local clock offset: 0.197 ms
Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-01-17 09:09:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 608.58 Mbit/s
95th percentile per-packet one-way delay: 173.461 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 608.58 Mbit/s
95th percentile per-packet one-way delay: 173.461 ms
Loss rate: 1.24%
```

Run 4: Report of Indigo-MusesC5 — Data Link

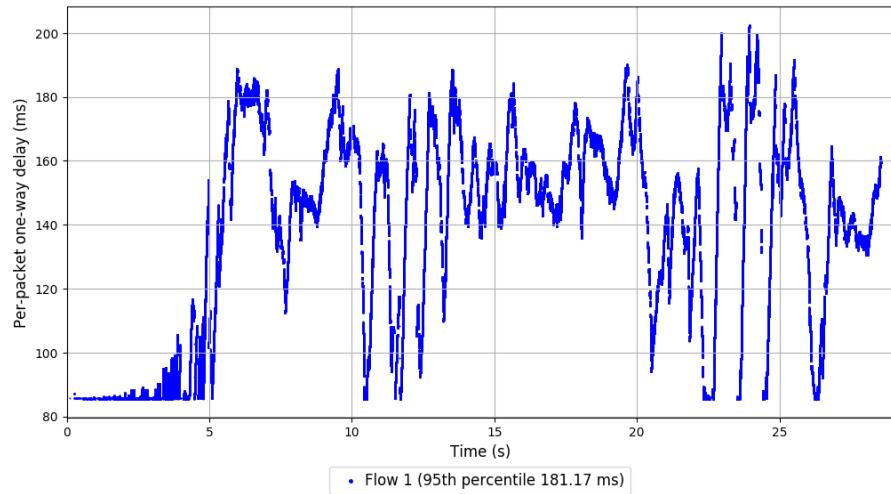
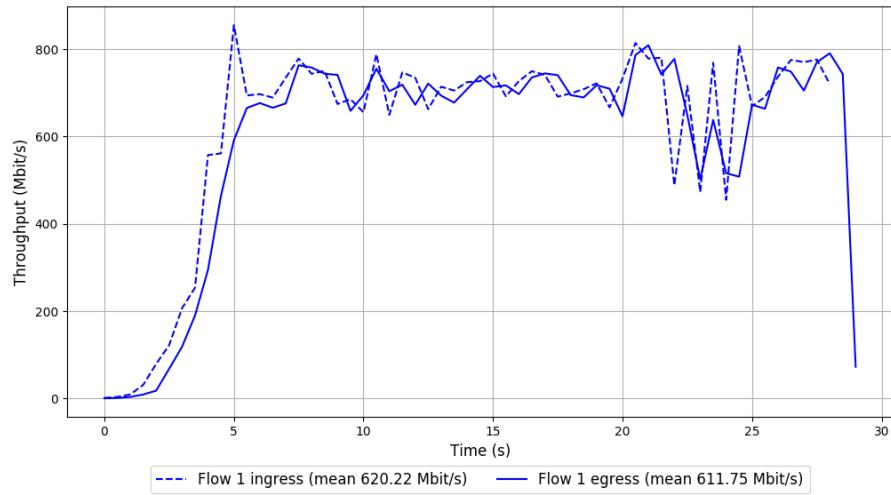


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-17 07:26:04
End at: 2019-01-17 07:26:34
Local clock offset: 0.343 ms
Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2019-01-17 09:09:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 611.75 Mbit/s
95th percentile per-packet one-way delay: 181.172 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 611.75 Mbit/s
95th percentile per-packet one-way delay: 181.172 ms
Loss rate: 1.36%
```

Run 5: Report of Indigo-MusesC5 — Data Link

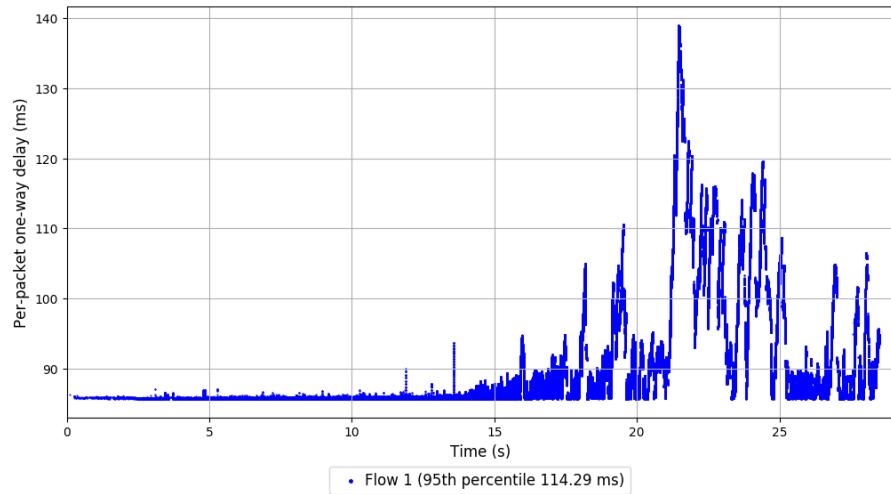
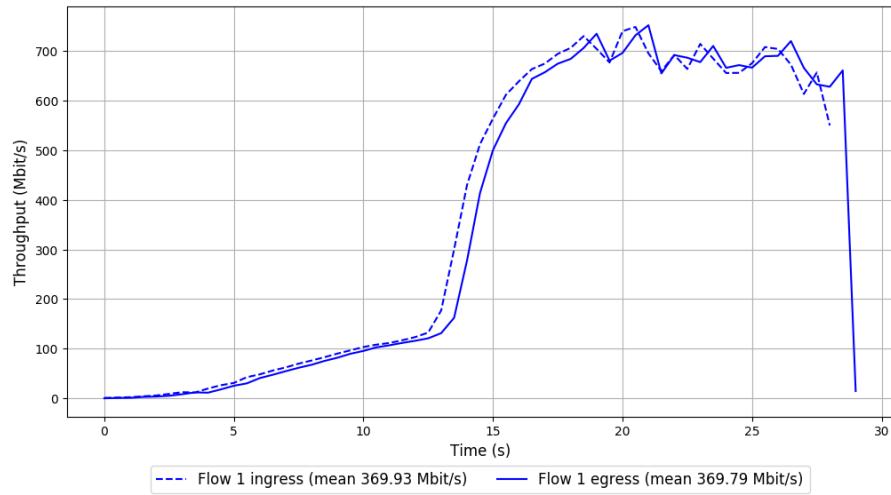


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-17 05:17:15
End at: 2019-01-17 05:17:45
Local clock offset: 0.925 ms
Remote clock offset: 1.858 ms

# Below is generated by plot.py at 2019-01-17 09:09:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.79 Mbit/s
95th percentile per-packet one-way delay: 114.286 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 369.79 Mbit/s
95th percentile per-packet one-way delay: 114.286 ms
Loss rate: 0.04%
```

Run 1: Report of Indigo-MusesD — Data Link

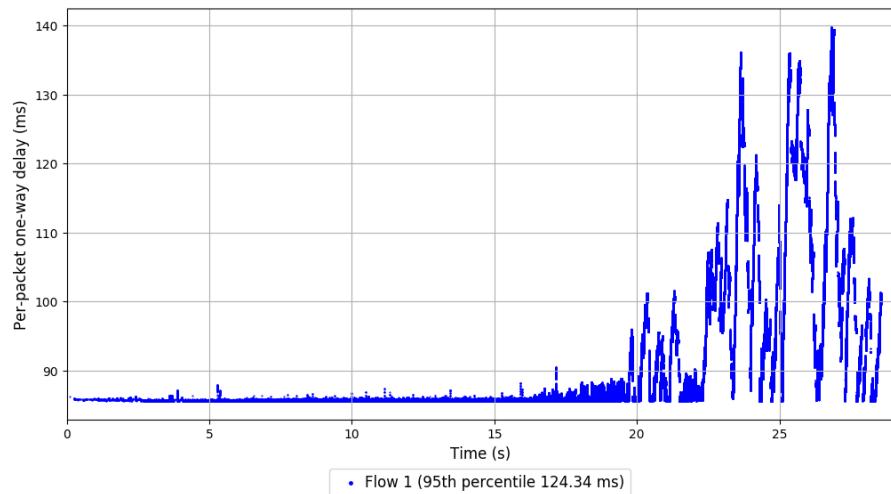
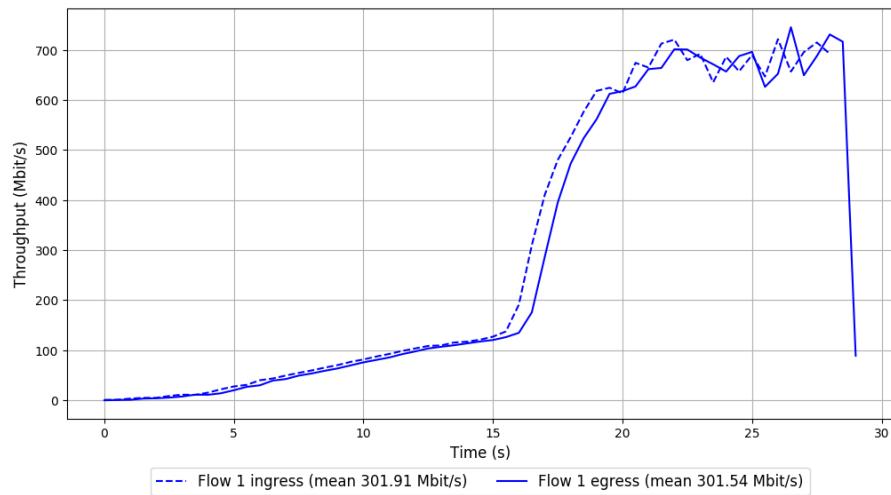


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-17 05:48:46
End at: 2019-01-17 05:49:16
Local clock offset: 0.674 ms
Remote clock offset: 0.516 ms

# Below is generated by plot.py at 2019-01-17 09:09:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 301.54 Mbit/s
95th percentile per-packet one-way delay: 124.342 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 301.54 Mbit/s
95th percentile per-packet one-way delay: 124.342 ms
Loss rate: 0.12%
```

Run 2: Report of Indigo-MusesD — Data Link

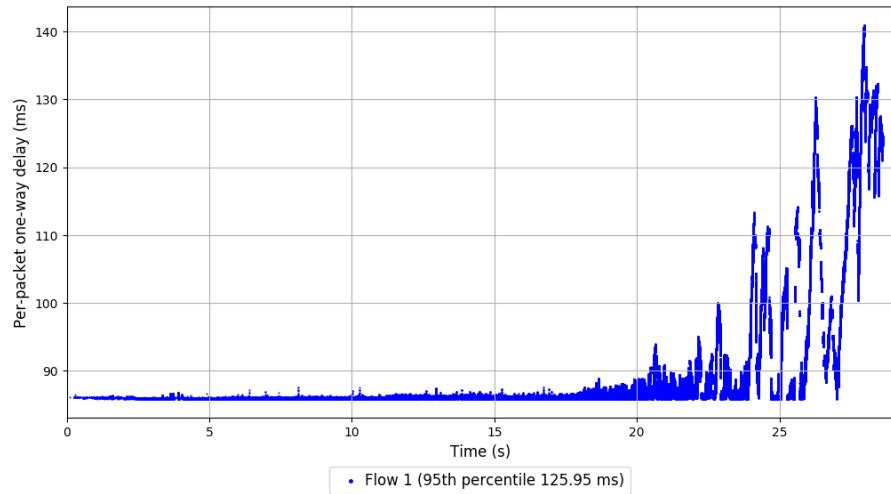
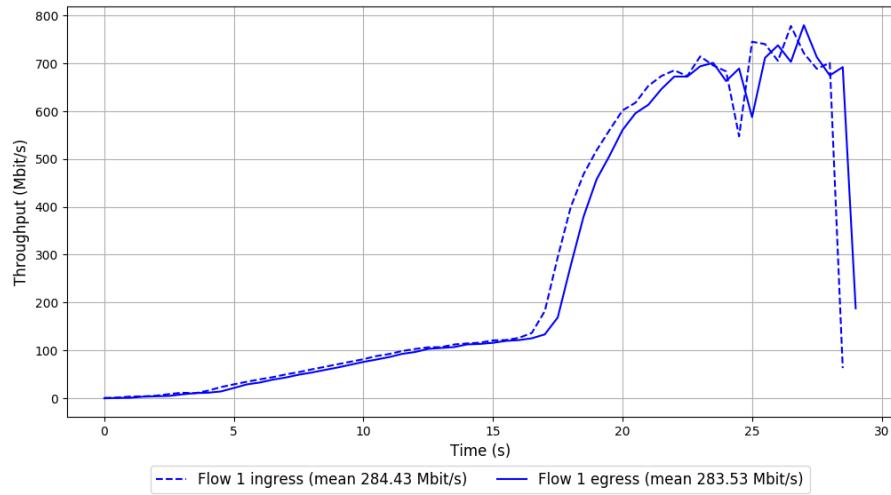


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-17 06:20:13
End at: 2019-01-17 06:20:43
Local clock offset: 0.155 ms
Remote clock offset: 0.277 ms

# Below is generated by plot.py at 2019-01-17 09:09:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 283.53 Mbit/s
95th percentile per-packet one-way delay: 125.949 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 283.53 Mbit/s
95th percentile per-packet one-way delay: 125.949 ms
Loss rate: 0.31%
```

Run 3: Report of Indigo-MusesD — Data Link

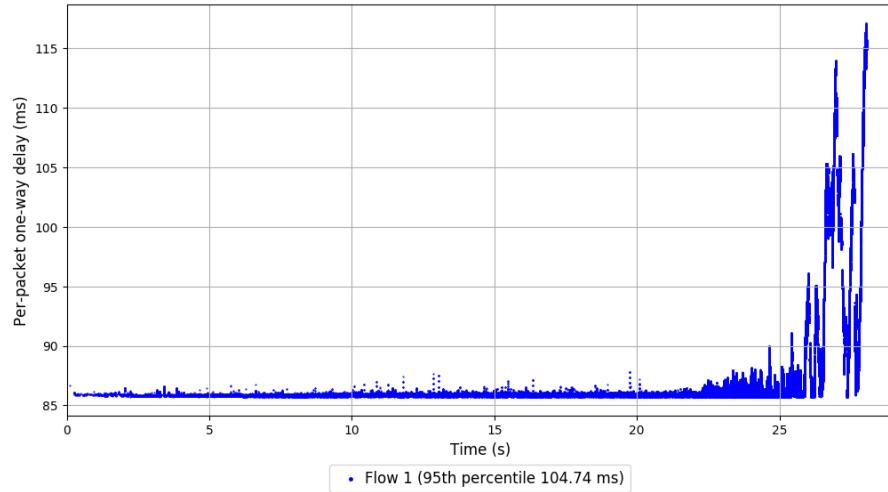
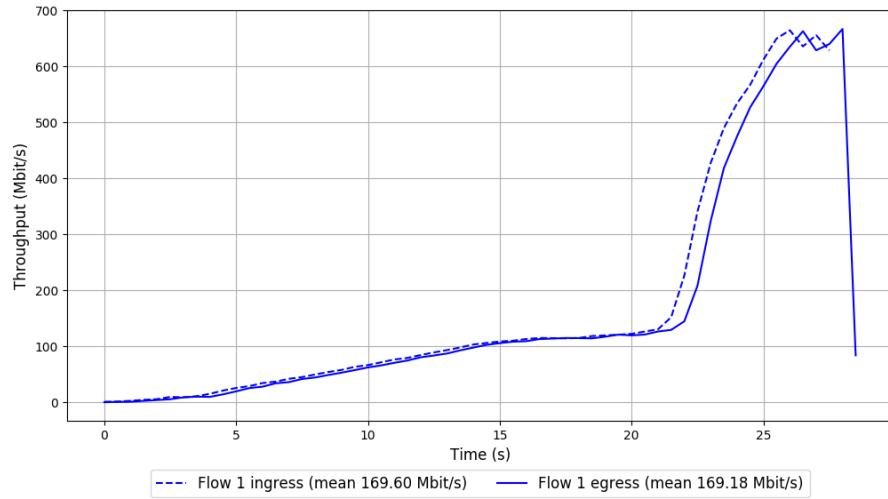


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-17 06:51:43
End at: 2019-01-17 06:52:13
Local clock offset: 0.184 ms
Remote clock offset: 0.195 ms

# Below is generated by plot.py at 2019-01-17 09:09:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.18 Mbit/s
95th percentile per-packet one-way delay: 104.737 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 169.18 Mbit/s
95th percentile per-packet one-way delay: 104.737 ms
Loss rate: 0.25%
```

Run 4: Report of Indigo-MusesD — Data Link

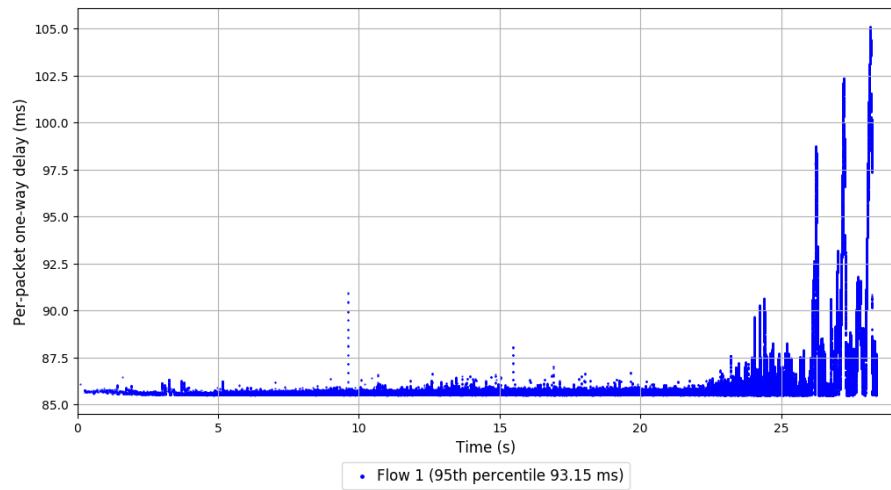
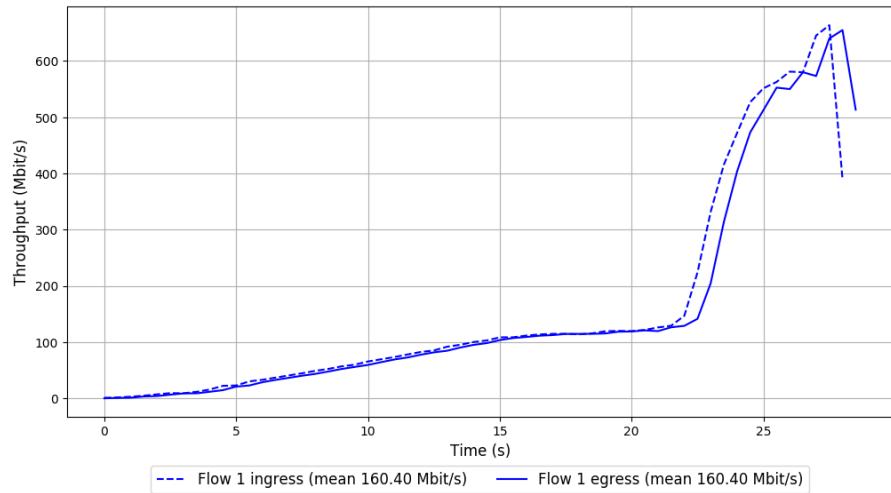


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-17 07:23:09
End at: 2019-01-17 07:23:39
Local clock offset: 0.247 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-01-17 09:09:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 160.40 Mbit/s
95th percentile per-packet one-way delay: 93.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 160.40 Mbit/s
95th percentile per-packet one-way delay: 93.147 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesD — Data Link

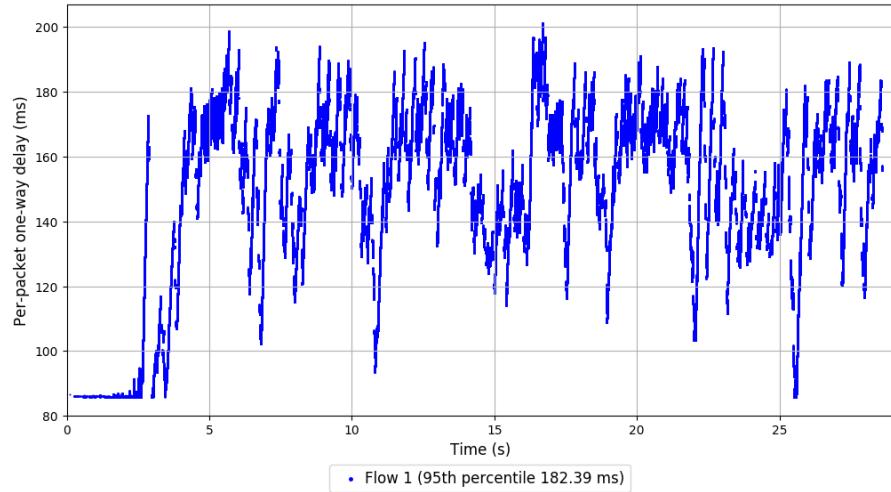
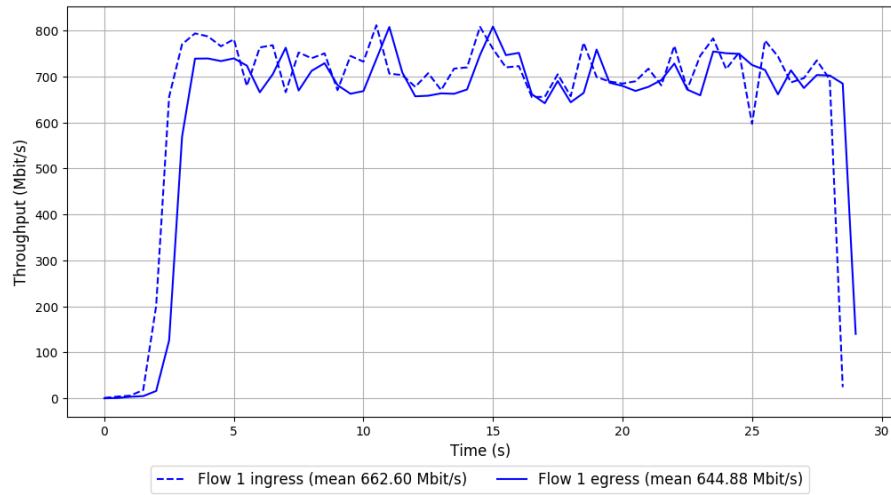


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-17 05:25:46
End at: 2019-01-17 05:26:16
Local clock offset: 0.647 ms
Remote clock offset: 1.057 ms

# Below is generated by plot.py at 2019-01-17 09:16:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 644.88 Mbit/s
95th percentile per-packet one-way delay: 182.388 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 644.88 Mbit/s
95th percentile per-packet one-way delay: 182.388 ms
Loss rate: 2.65%
```

Run 1: Report of Indigo-MusesT — Data Link

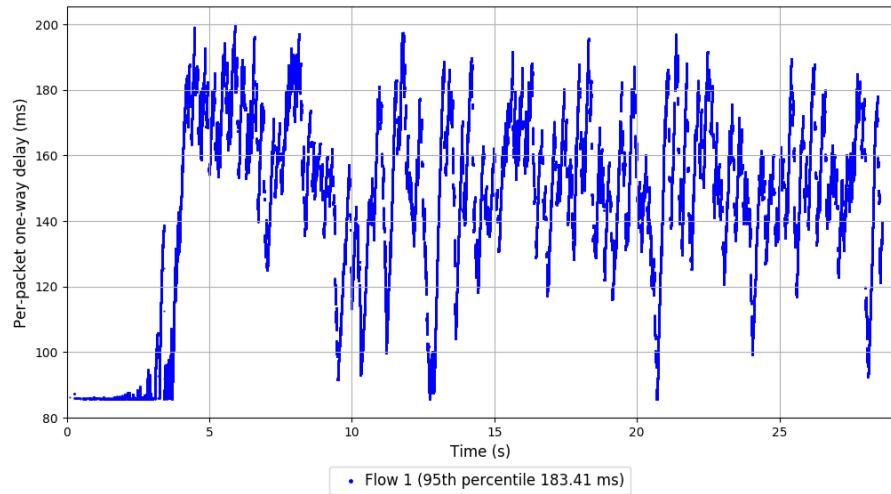
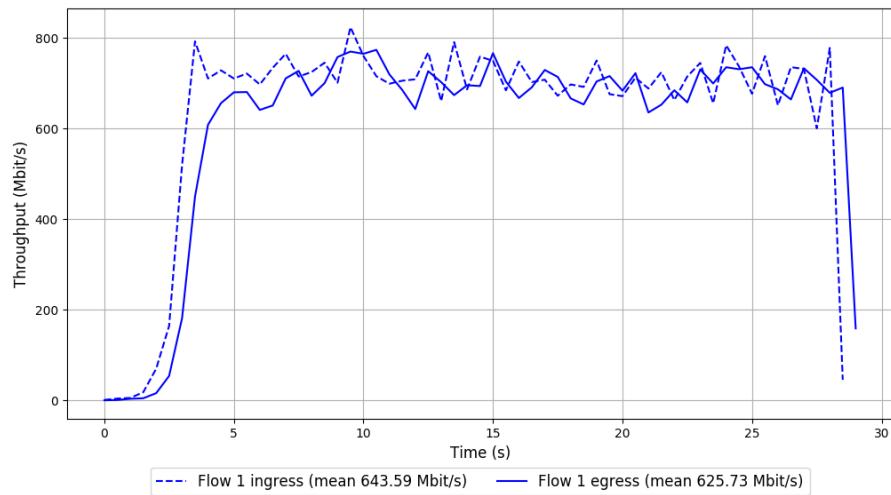


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-17 05:57:22
End at: 2019-01-17 05:57:52
Local clock offset: 0.408 ms
Remote clock offset: 0.334 ms

# Below is generated by plot.py at 2019-01-17 09:16:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 625.73 Mbit/s
95th percentile per-packet one-way delay: 183.406 ms
Loss rate: 2.77%
-- Flow 1:
Average throughput: 625.73 Mbit/s
95th percentile per-packet one-way delay: 183.406 ms
Loss rate: 2.77%
```

Run 2: Report of Indigo-MusesT — Data Link

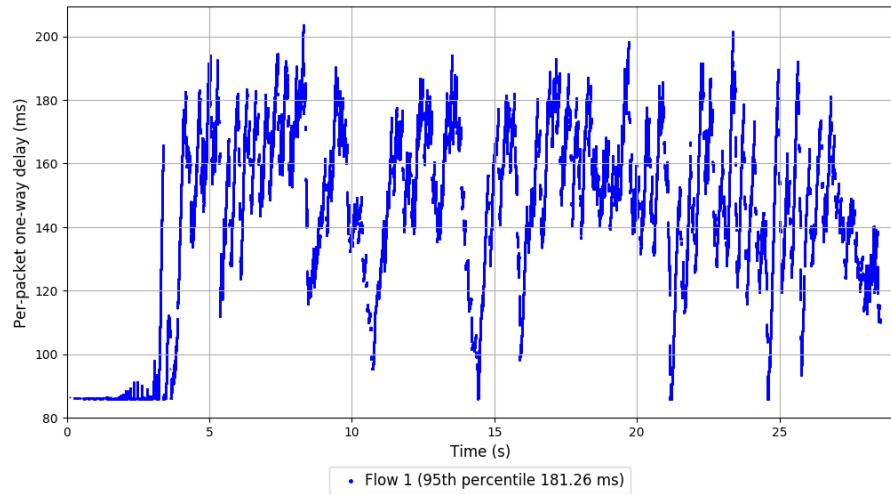
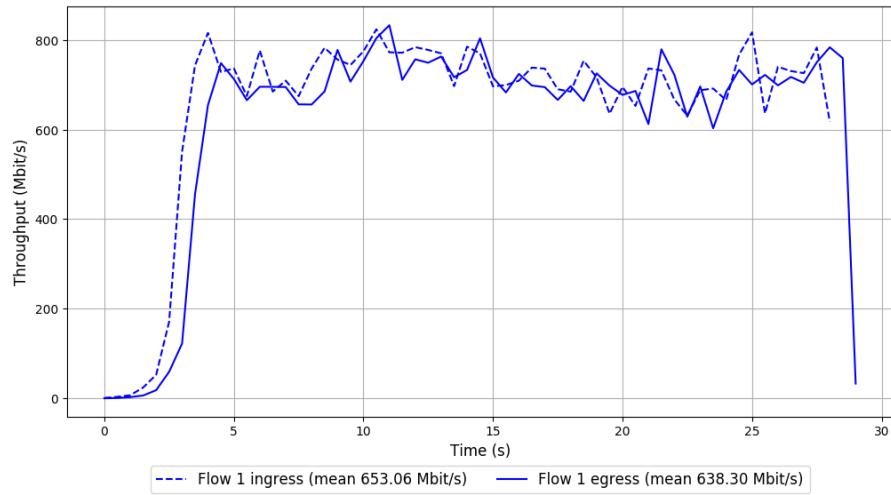


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-17 06:28:37
End at: 2019-01-17 06:29:07
Local clock offset: 0.047 ms
Remote clock offset: 0.181 ms

# Below is generated by plot.py at 2019-01-17 09:17:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 638.30 Mbit/s
95th percentile per-packet one-way delay: 181.256 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 638.30 Mbit/s
95th percentile per-packet one-way delay: 181.256 ms
Loss rate: 2.26%
```

Run 3: Report of Indigo-MusesT — Data Link

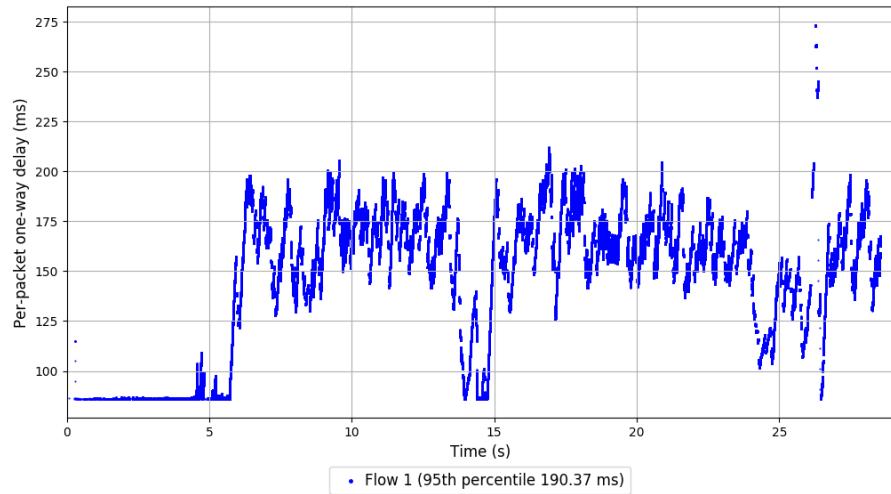
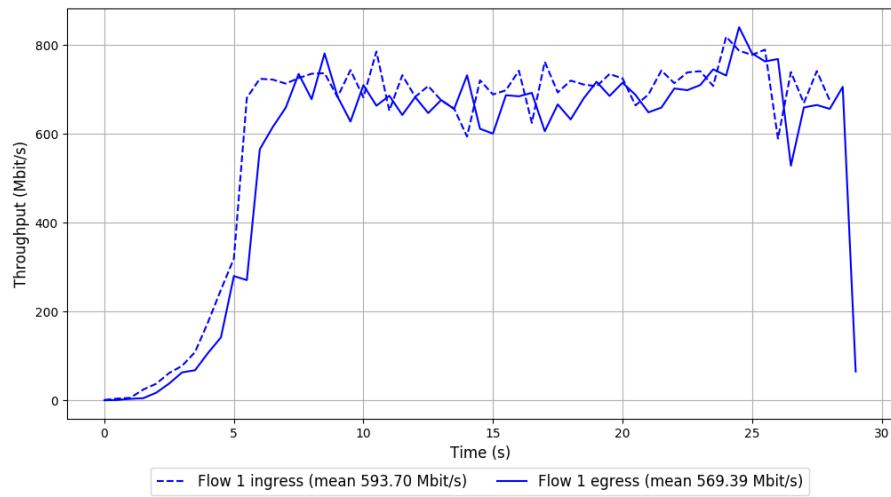


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-17 07:00:17
End at: 2019-01-17 07:00:47
Local clock offset: -0.038 ms
Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2019-01-17 09:17:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 569.39 Mbit/s
95th percentile per-packet one-way delay: 190.370 ms
Loss rate: 4.09%
-- Flow 1:
Average throughput: 569.39 Mbit/s
95th percentile per-packet one-way delay: 190.370 ms
Loss rate: 4.09%
```

Run 4: Report of Indigo-MusesT — Data Link

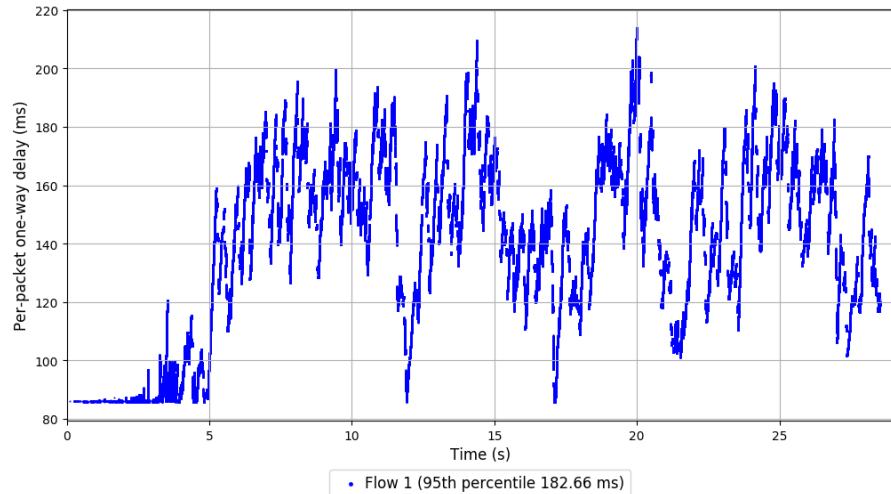
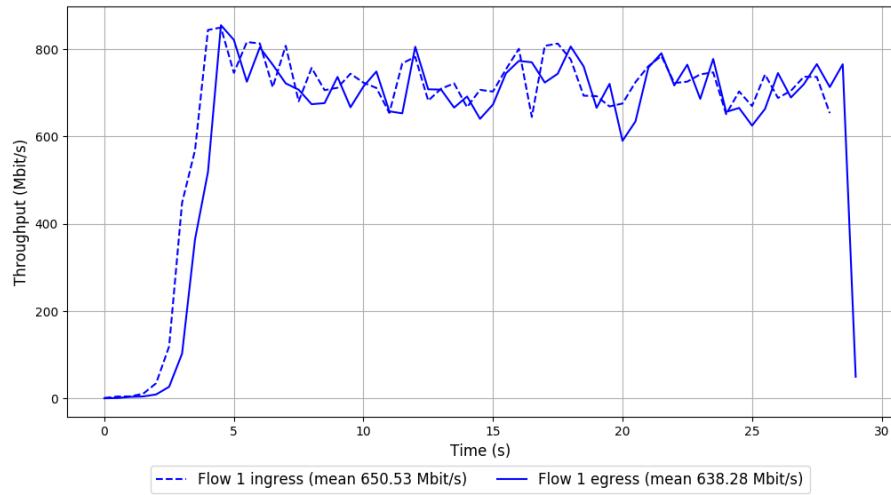


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-17 07:31:39
End at: 2019-01-17 07:32:09
Local clock offset: 0.034 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-01-17 09:17:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 638.28 Mbit/s
95th percentile per-packet one-way delay: 182.665 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 638.28 Mbit/s
95th percentile per-packet one-way delay: 182.665 ms
Loss rate: 1.88%
```

Run 5: Report of Indigo-MusesT — Data Link

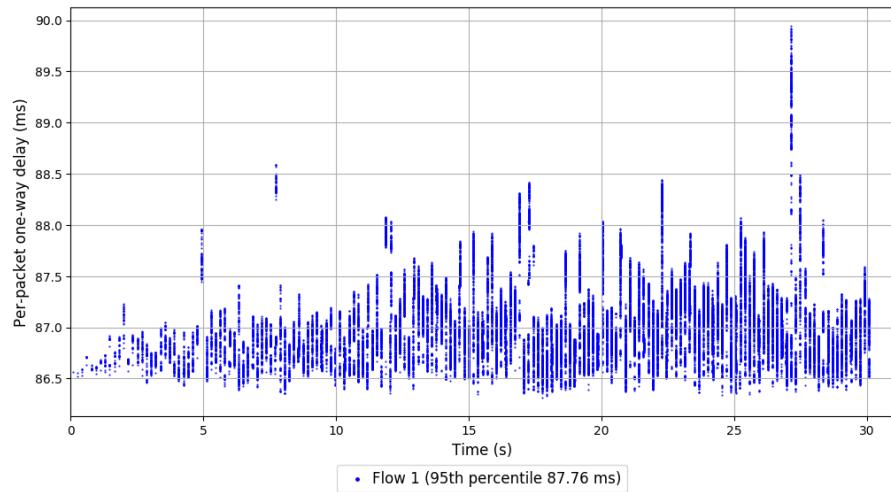
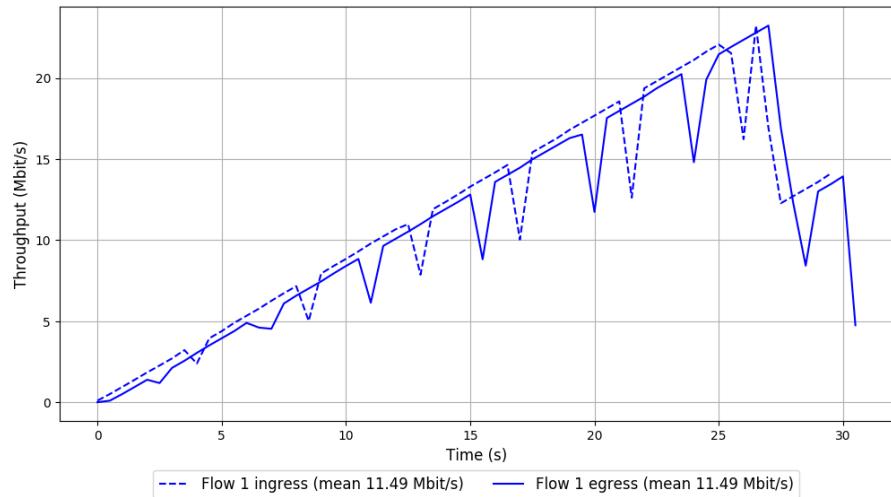


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-01-17 05:24:35
End at: 2019-01-17 05:25:05
Local clock offset: 0.765 ms
Remote clock offset: 1.131 ms

# Below is generated by plot.py at 2019-01-17 09:17:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 87.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 87.764 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

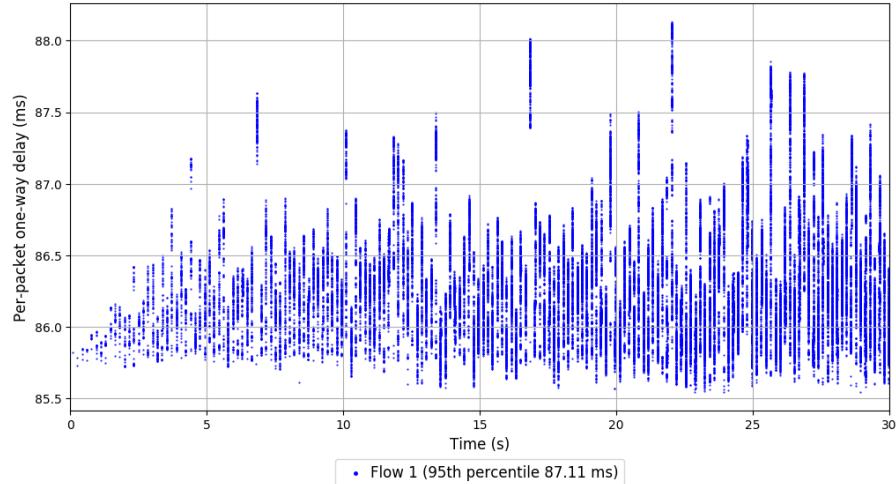
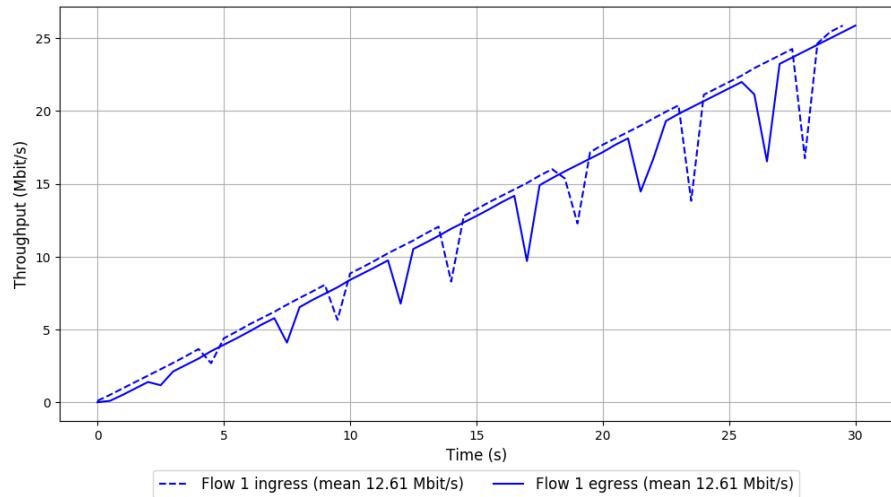


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-17 05:56:11
End at: 2019-01-17 05:56:41
Local clock offset: 0.507 ms
Remote clock offset: 0.32 ms

# Below is generated by plot.py at 2019-01-17 09:17:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 87.107 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 87.107 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

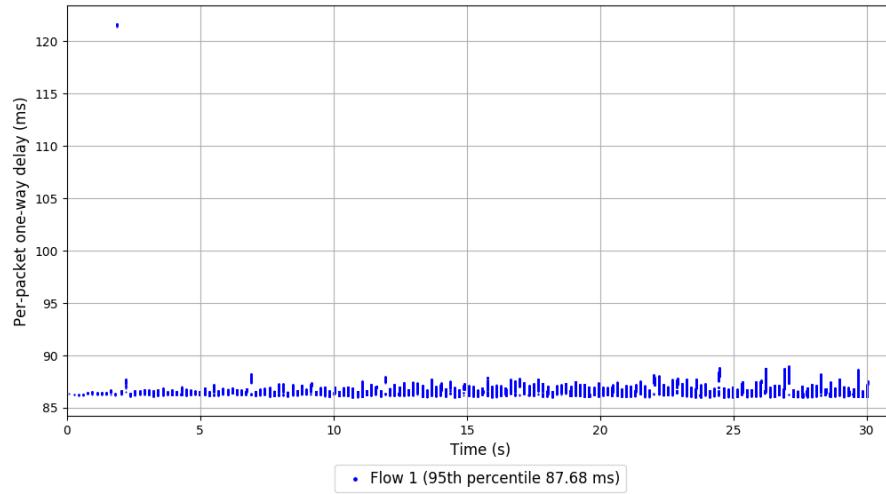
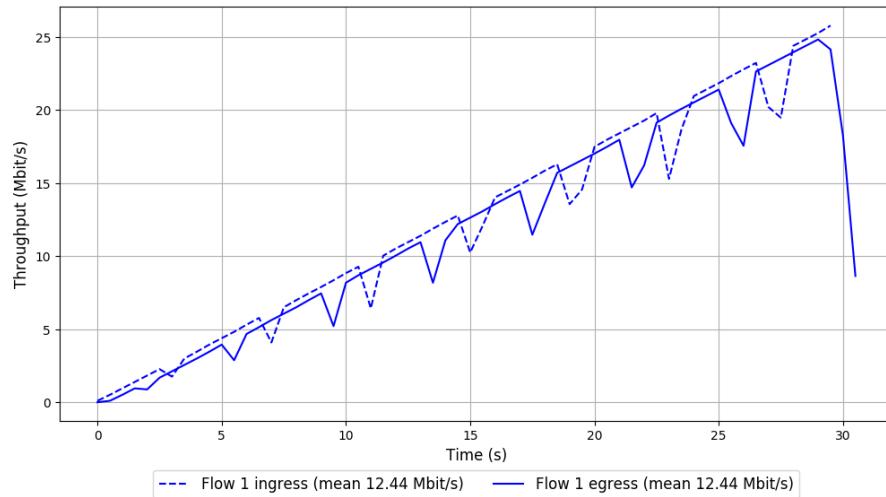


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-17 06:27:26
End at: 2019-01-17 06:27:56
Local clock offset: 0.254 ms
Remote clock offset: 0.168 ms

# Below is generated by plot.py at 2019-01-17 09:17:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 87.678 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 87.678 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

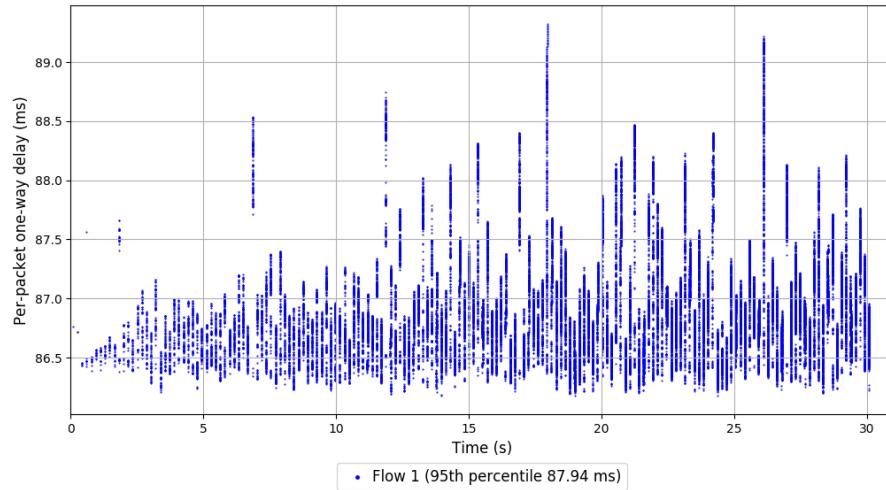
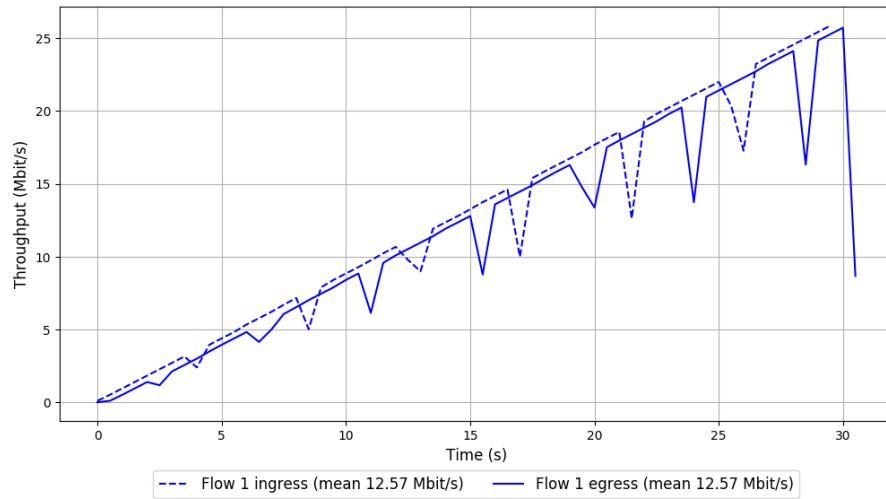


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-17 06:59:06
End at: 2019-01-17 06:59:36
Local clock offset: 0.313 ms
Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2019-01-17 09:17:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 87.945 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 87.945 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

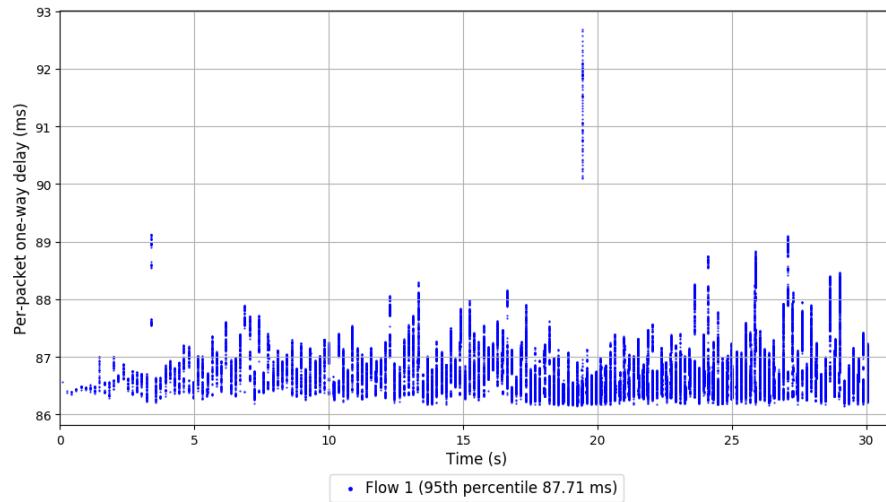
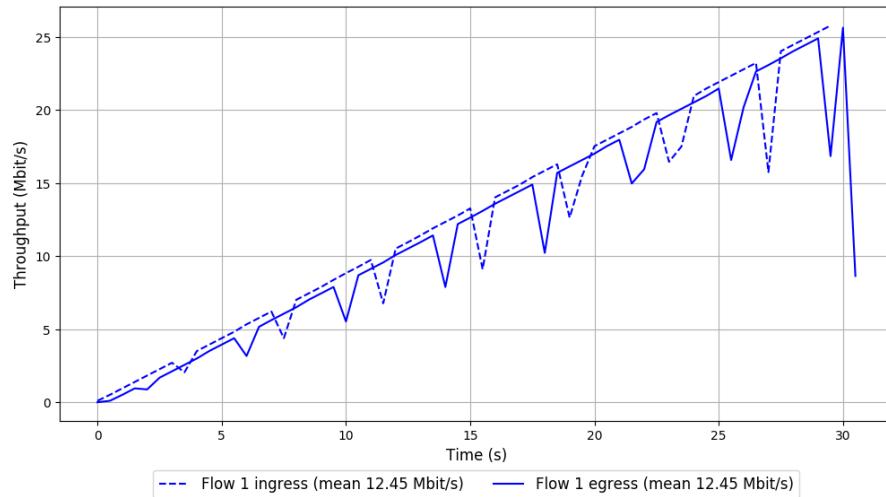


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-17 07:30:28
End at: 2019-01-17 07:30:58
Local clock offset: 0.288 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-01-17 09:17:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 87.709 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 87.709 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

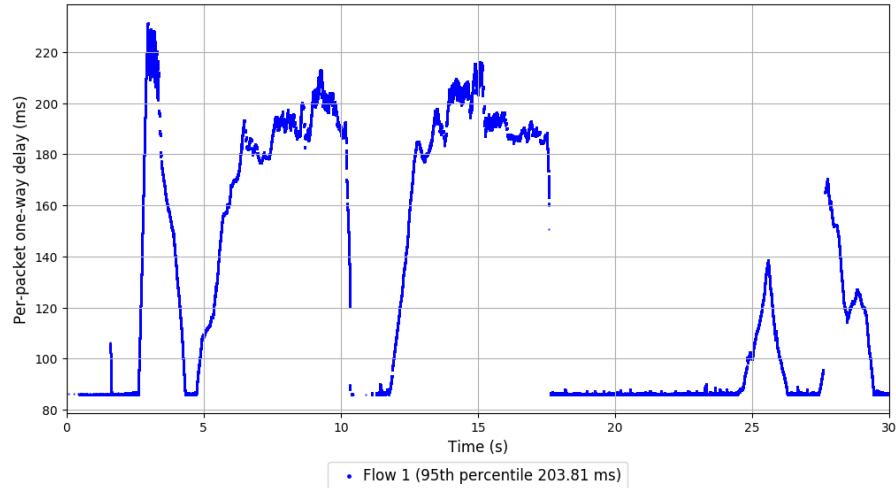
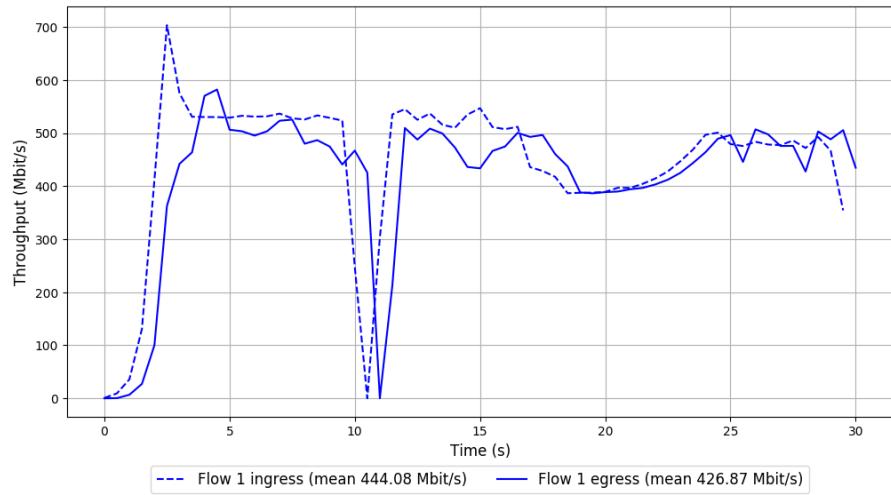


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-17 05:31:27
End at: 2019-01-17 05:31:57
Local clock offset: 0.613 ms
Remote clock offset: 0.928 ms

# Below is generated by plot.py at 2019-01-17 09:24:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 426.87 Mbit/s
95th percentile per-packet one-way delay: 203.807 ms
Loss rate: 3.87%
-- Flow 1:
Average throughput: 426.87 Mbit/s
95th percentile per-packet one-way delay: 203.807 ms
Loss rate: 3.87%
```

Run 1: Report of PCC-Allegro — Data Link

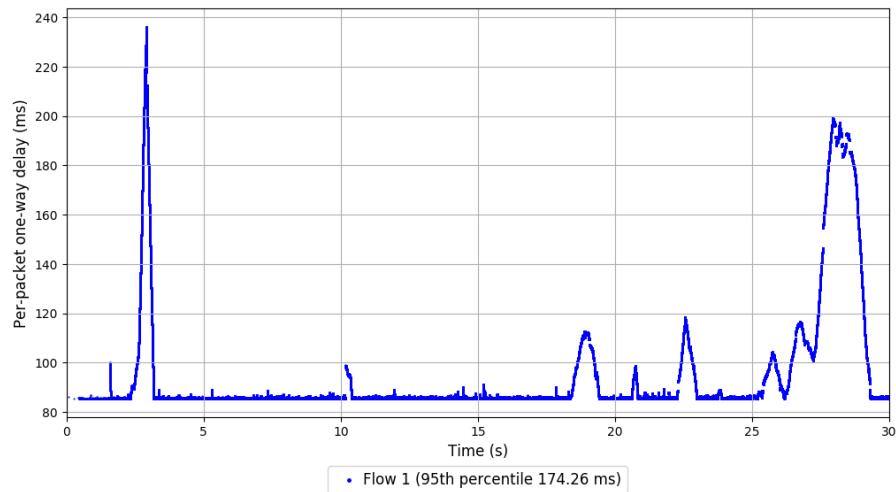
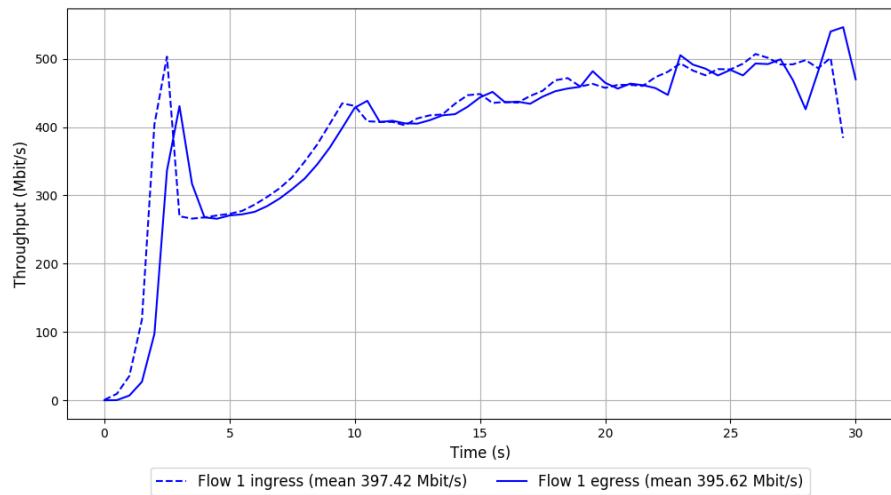


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-17 06:03:02
End at: 2019-01-17 06:03:32
Local clock offset: 0.616 ms
Remote clock offset: 0.325 ms

# Below is generated by plot.py at 2019-01-17 09:24:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 395.62 Mbit/s
95th percentile per-packet one-way delay: 174.256 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 395.62 Mbit/s
95th percentile per-packet one-way delay: 174.256 ms
Loss rate: 0.45%
```

Run 2: Report of PCC-Allegro — Data Link

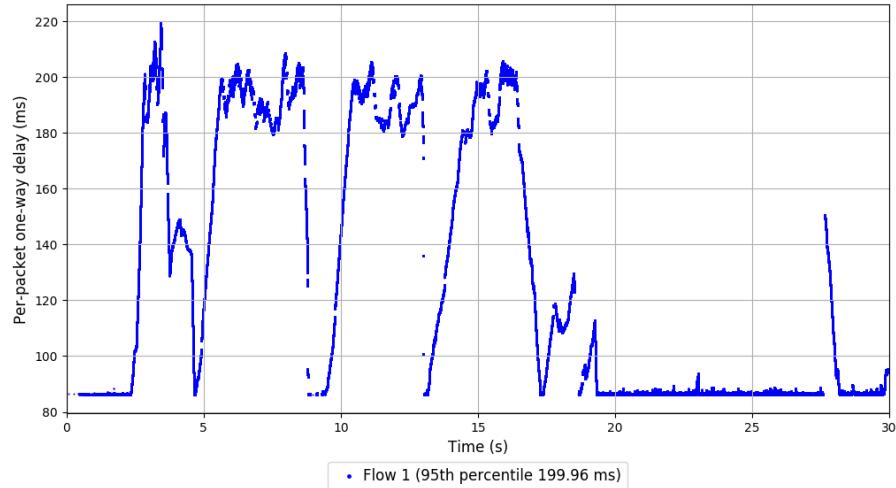
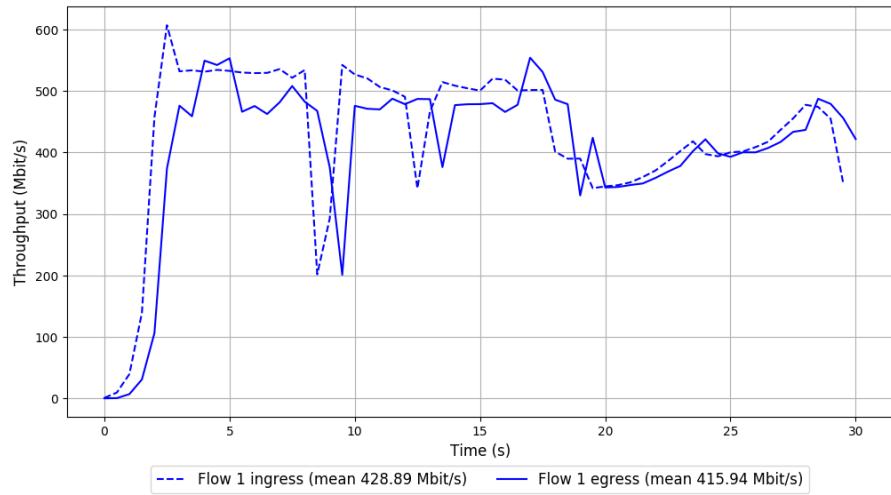


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-17 06:34:17
End at: 2019-01-17 06:34:47
Local clock offset: 0.008 ms
Remote clock offset: 0.149 ms

# Below is generated by plot.py at 2019-01-17 09:25:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 415.94 Mbit/s
95th percentile per-packet one-way delay: 199.960 ms
Loss rate: 3.02%
-- Flow 1:
Average throughput: 415.94 Mbit/s
95th percentile per-packet one-way delay: 199.960 ms
Loss rate: 3.02%
```

Run 3: Report of PCC-Allegro — Data Link

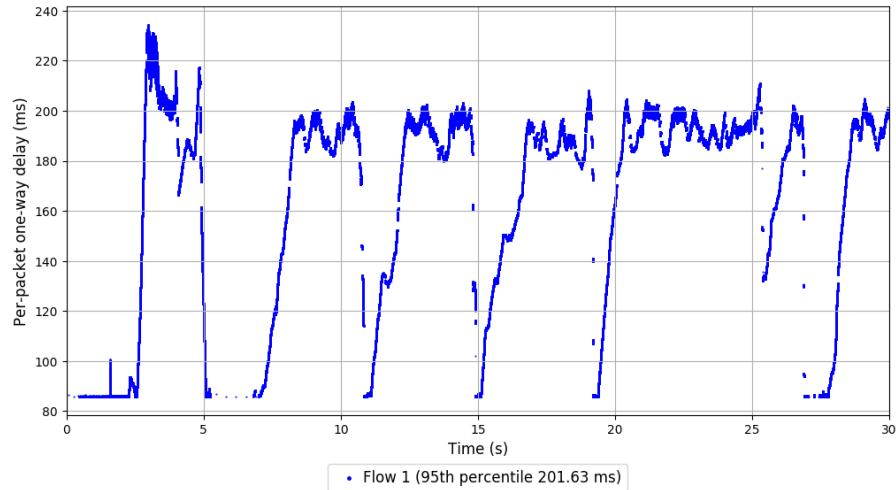
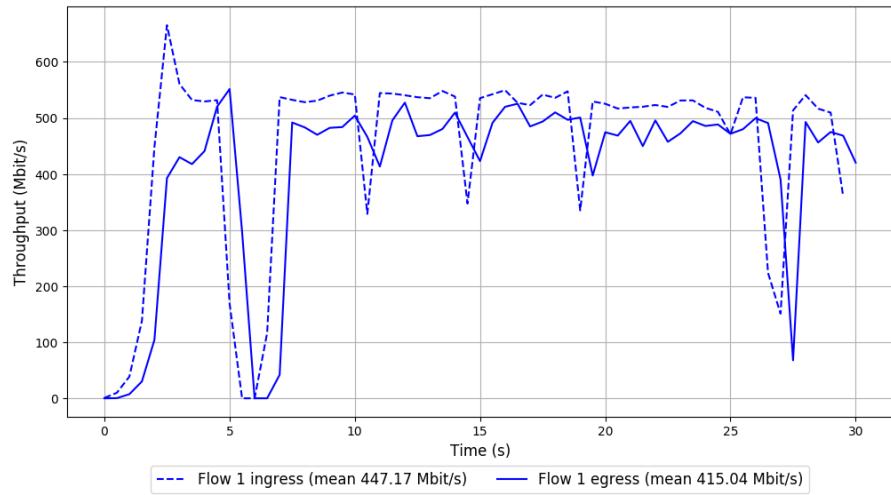


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-17 07:05:52
End at: 2019-01-17 07:06:22
Local clock offset: -0.042 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2019-01-17 09:32:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 415.04 Mbit/s
95th percentile per-packet one-way delay: 201.635 ms
Loss rate: 7.18%
-- Flow 1:
Average throughput: 415.04 Mbit/s
95th percentile per-packet one-way delay: 201.635 ms
Loss rate: 7.18%
```

Run 4: Report of PCC-Allegro — Data Link

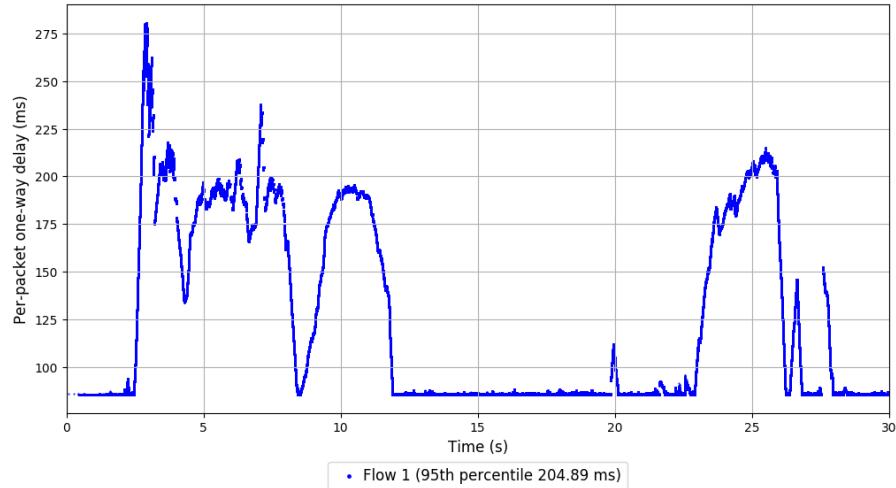
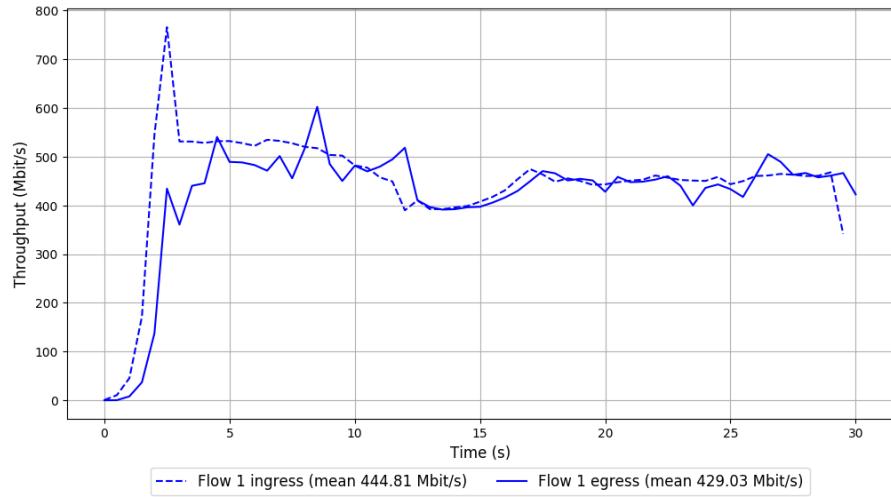


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-17 07:37:35
End at: 2019-01-17 07:38:05
Local clock offset: 0.38 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-01-17 09:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 429.03 Mbit/s
95th percentile per-packet one-way delay: 204.894 ms
Loss rate: 3.55%
-- Flow 1:
Average throughput: 429.03 Mbit/s
95th percentile per-packet one-way delay: 204.894 ms
Loss rate: 3.55%
```

Run 5: Report of PCC-Allegro — Data Link

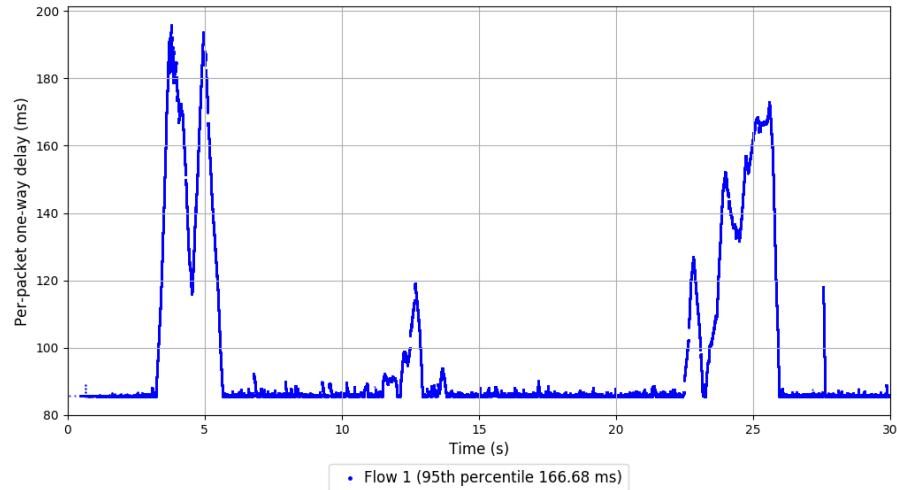
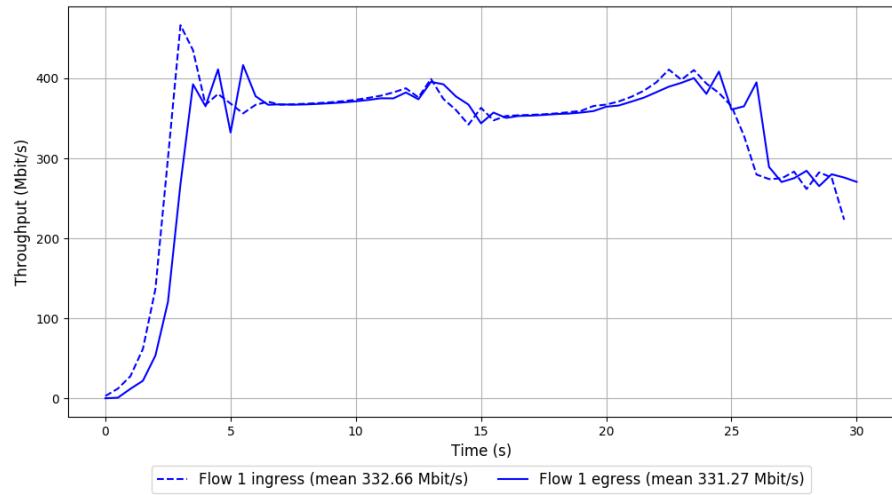


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-17 05:29:46
End at: 2019-01-17 05:30:16
Local clock offset: 0.973 ms
Remote clock offset: 0.932 ms

# Below is generated by plot.py at 2019-01-17 09:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.27 Mbit/s
95th percentile per-packet one-way delay: 166.677 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 331.27 Mbit/s
95th percentile per-packet one-way delay: 166.677 ms
Loss rate: 0.42%
```

Run 1: Report of PCC-Expr — Data Link

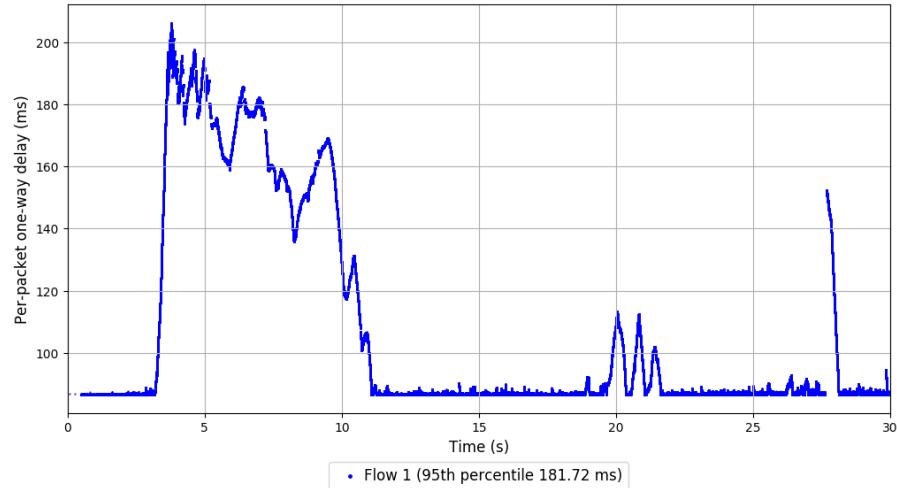
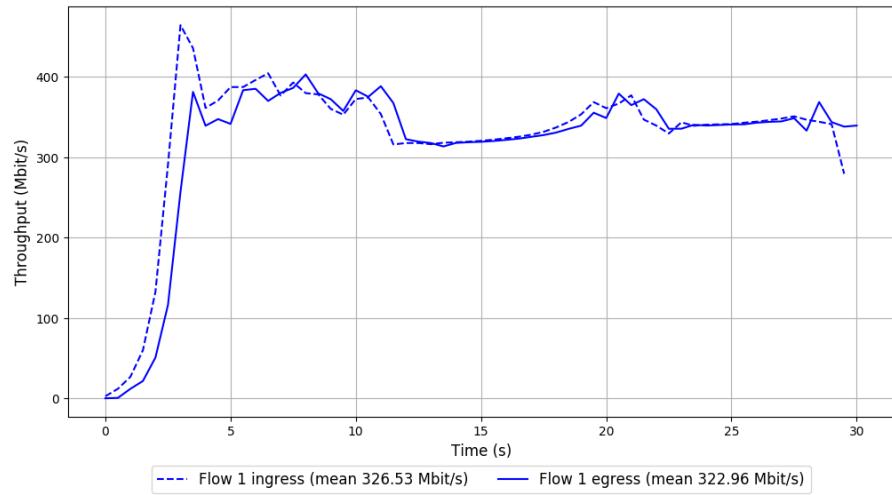


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-17 06:01:21
End at: 2019-01-17 06:01:51
Local clock offset: -0.083 ms
Remote clock offset: 0.357 ms

# Below is generated by plot.py at 2019-01-17 09:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.96 Mbit/s
95th percentile per-packet one-way delay: 181.724 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 322.96 Mbit/s
95th percentile per-packet one-way delay: 181.724 ms
Loss rate: 1.09%
```

Run 2: Report of PCC-Expr — Data Link

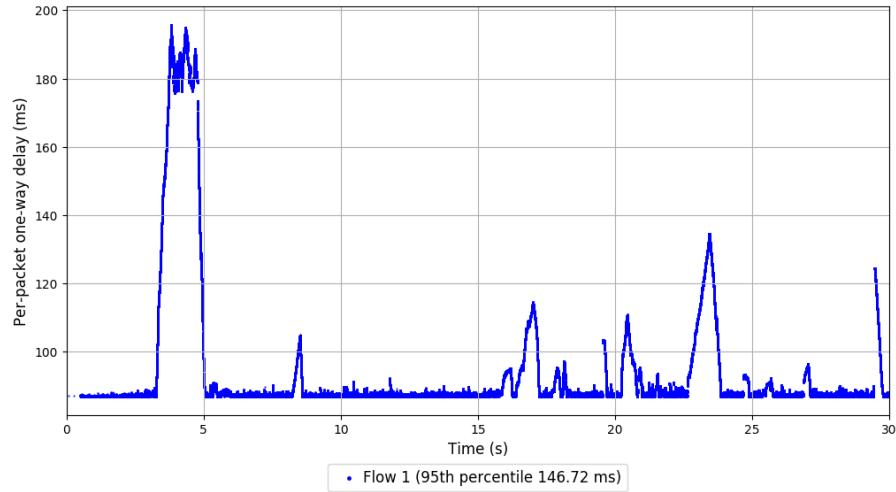
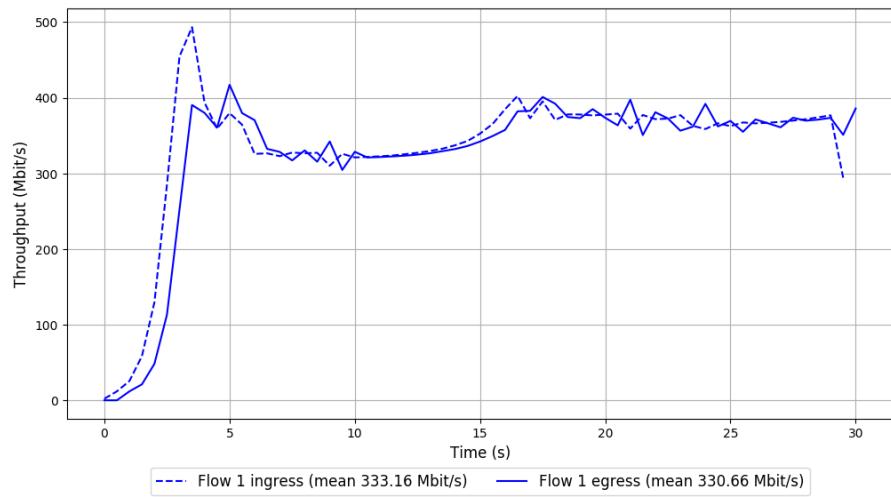


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-17 06:32:37
End at: 2019-01-17 06:33:07
Local clock offset: -0.431 ms
Remote clock offset: 0.12 ms

# Below is generated by plot.py at 2019-01-17 09:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.66 Mbit/s
95th percentile per-packet one-way delay: 146.718 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 330.66 Mbit/s
95th percentile per-packet one-way delay: 146.718 ms
Loss rate: 0.75%
```

Run 3: Report of PCC-Expr — Data Link

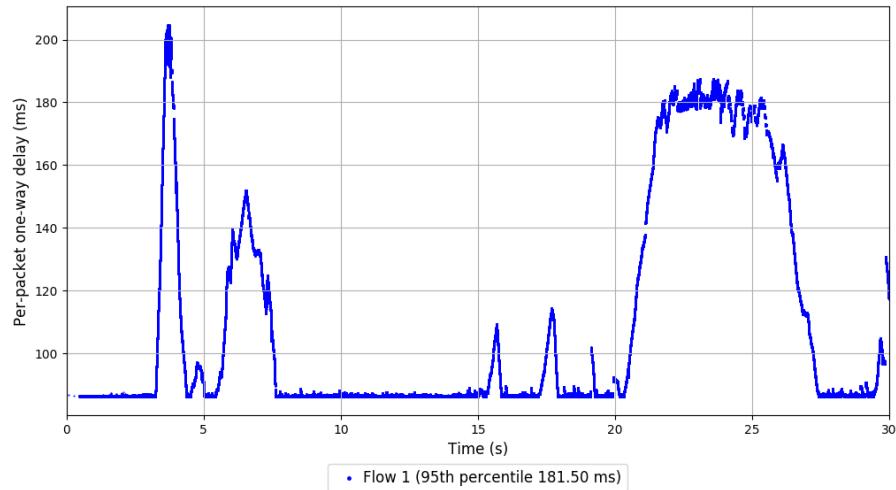
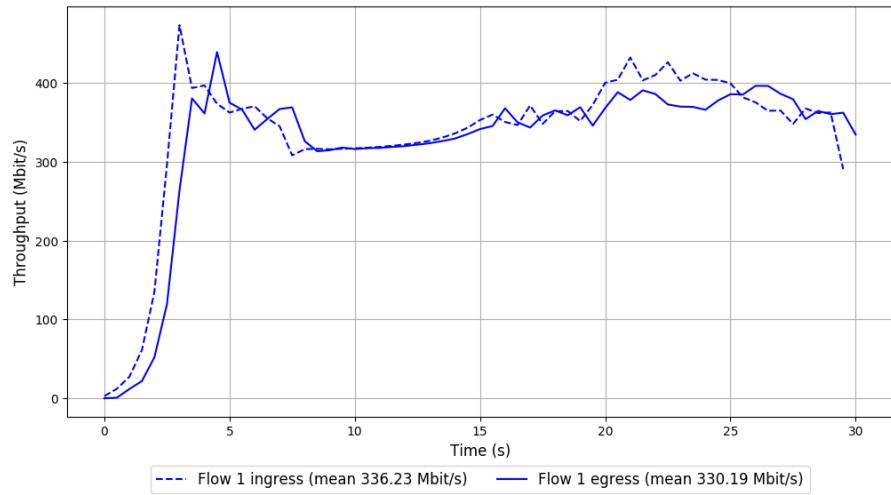


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-17 07:04:12
End at: 2019-01-17 07:04:42
Local clock offset: 0.211 ms
Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-01-17 09:37:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.19 Mbit/s
95th percentile per-packet one-way delay: 181.501 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 330.19 Mbit/s
95th percentile per-packet one-way delay: 181.501 ms
Loss rate: 1.79%
```

Run 4: Report of PCC-Expr — Data Link

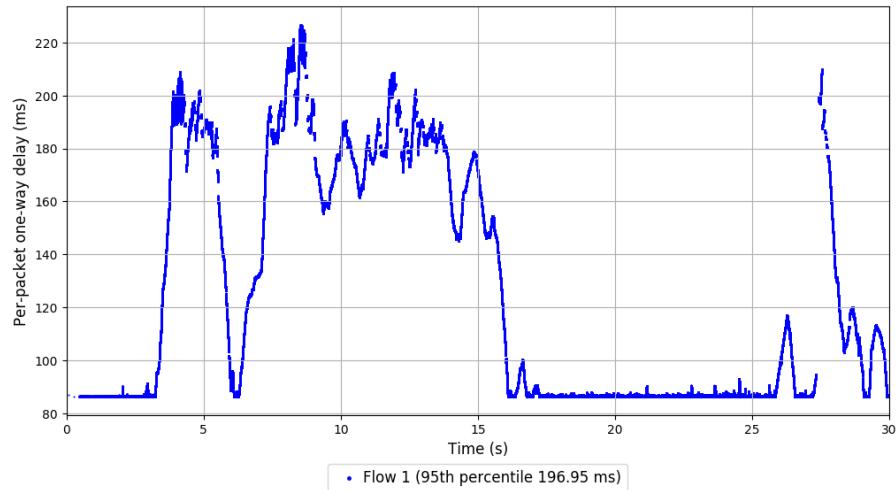
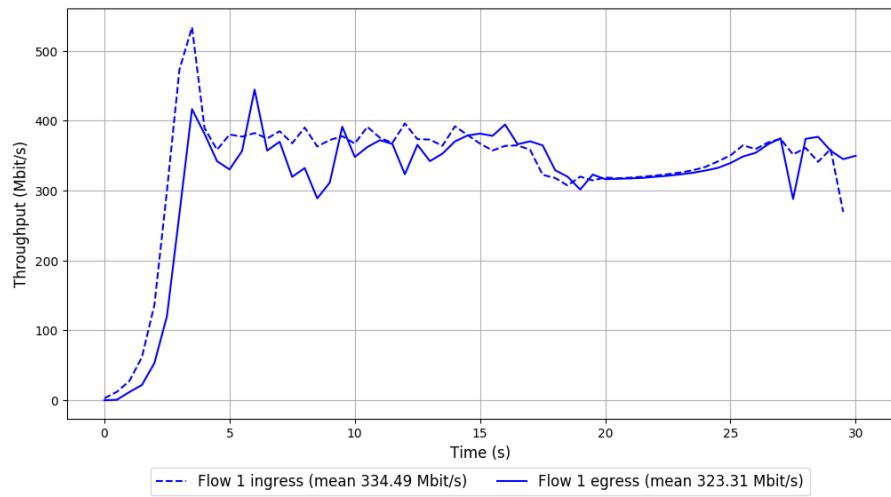


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-17 07:35:48
End at: 2019-01-17 07:36:18
Local clock offset: -0.326 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-01-17 09:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 323.31 Mbit/s
95th percentile per-packet one-way delay: 196.948 ms
Loss rate: 3.35%
-- Flow 1:
Average throughput: 323.31 Mbit/s
95th percentile per-packet one-way delay: 196.948 ms
Loss rate: 3.35%
```

Run 5: Report of PCC-Expr — Data Link

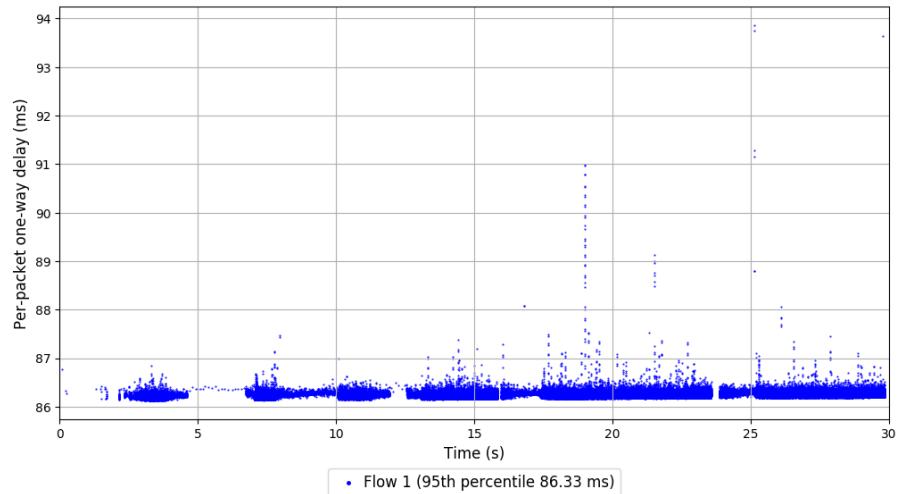
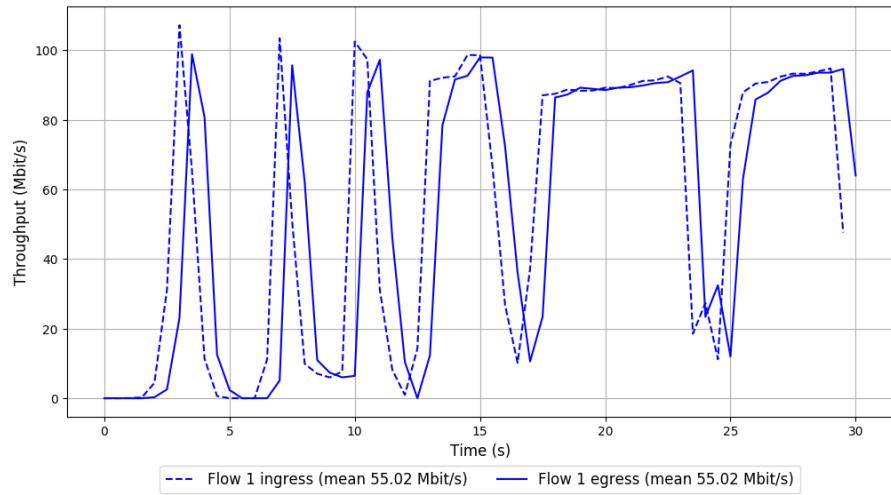


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-01-17 05:16:02
End at: 2019-01-17 05:16:32
Local clock offset: 0.542 ms
Remote clock offset: 2.084 ms

# Below is generated by plot.py at 2019-01-17 09:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.02 Mbit/s
95th percentile per-packet one-way delay: 86.334 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.02 Mbit/s
95th percentile per-packet one-way delay: 86.334 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link

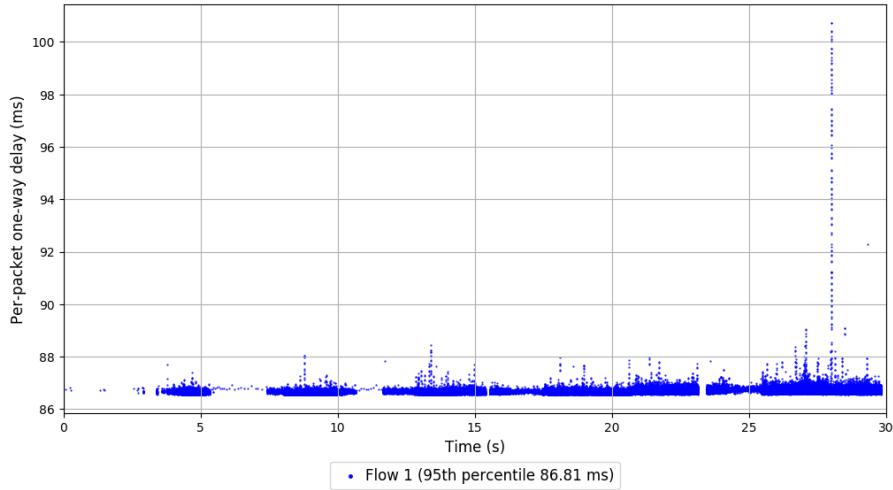
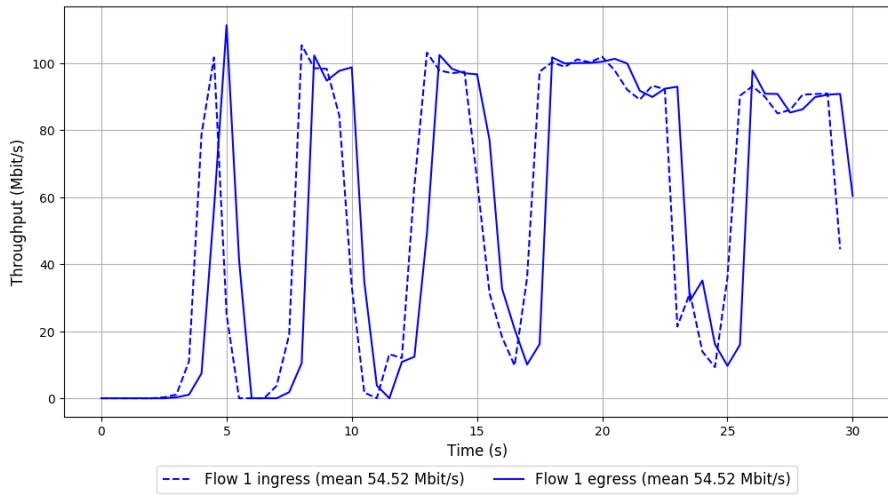


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-17 05:47:33
End at: 2019-01-17 05:48:03
Local clock offset: 0.395 ms
Remote clock offset: 0.558 ms

# Below is generated by plot.py at 2019-01-17 09:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.52 Mbit/s
95th percentile per-packet one-way delay: 86.814 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.52 Mbit/s
95th percentile per-packet one-way delay: 86.814 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

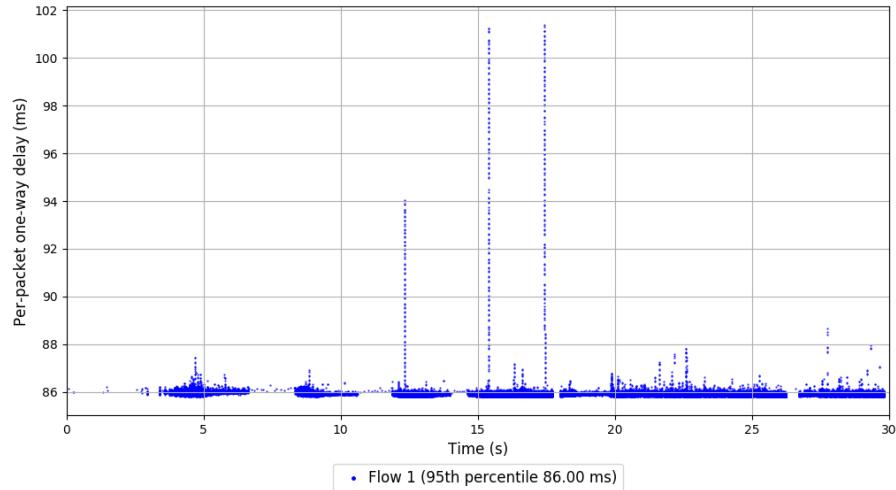
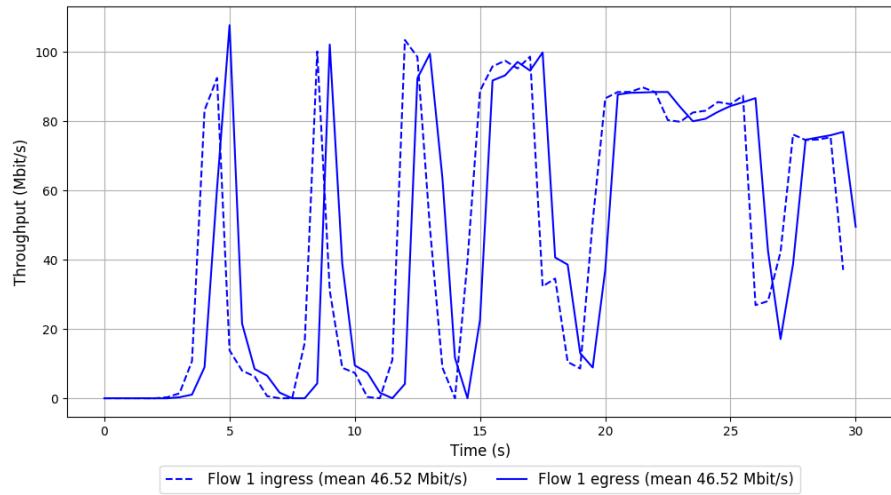


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-17 06:19:01
End at: 2019-01-17 06:19:31
Local clock offset: 0.329 ms
Remote clock offset: 0.342 ms

# Below is generated by plot.py at 2019-01-17 09:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.52 Mbit/s
95th percentile per-packet one-way delay: 86.001 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.52 Mbit/s
95th percentile per-packet one-way delay: 86.001 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

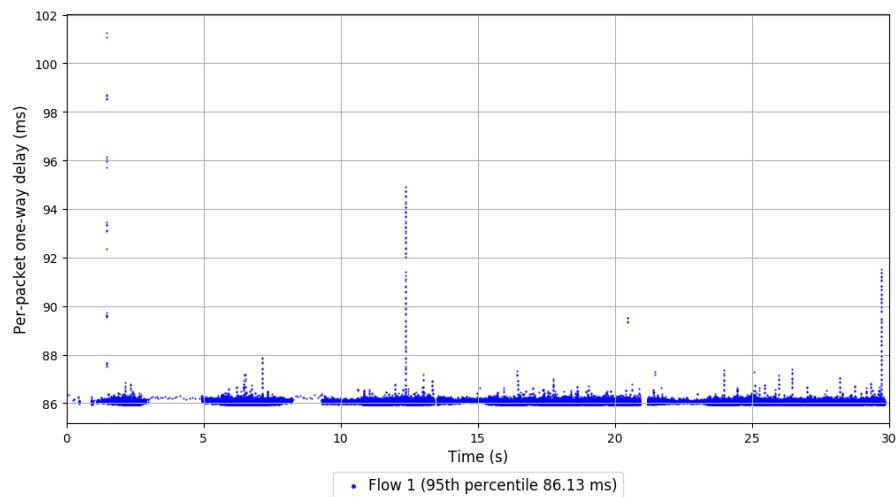
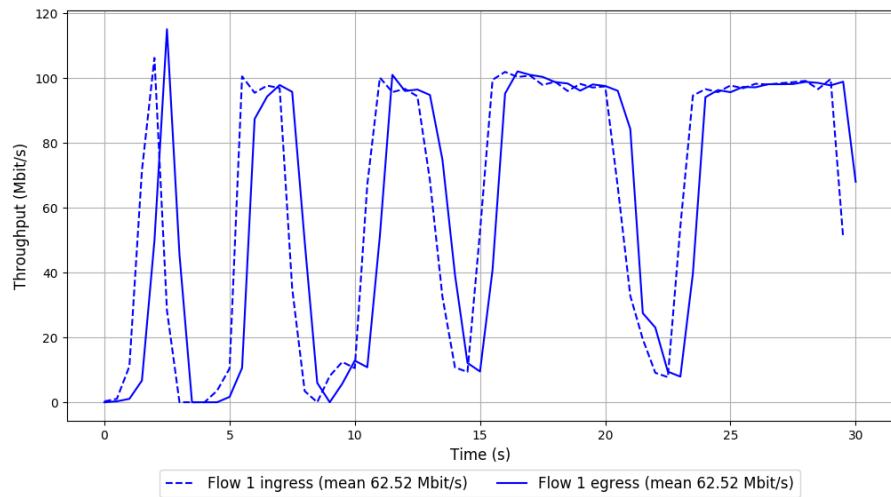


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-17 06:50:30
End at: 2019-01-17 06:51:01
Local clock offset: 0.281 ms
Remote clock offset: 0.189 ms

# Below is generated by plot.py at 2019-01-17 09:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.52 Mbit/s
95th percentile per-packet one-way delay: 86.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.52 Mbit/s
95th percentile per-packet one-way delay: 86.128 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

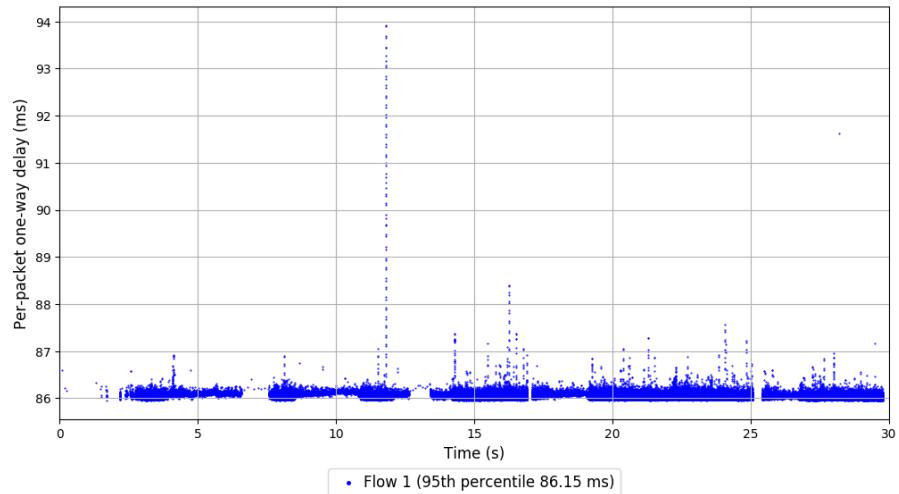
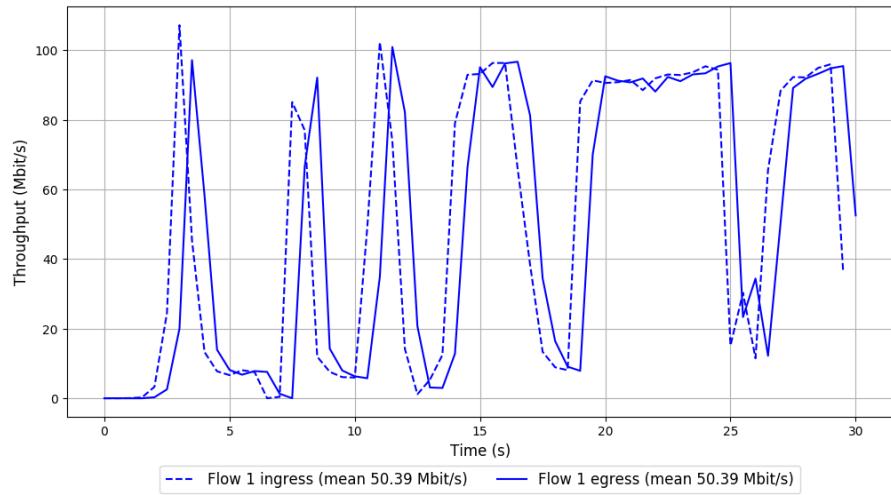


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-17 07:21:57
End at: 2019-01-17 07:22:27
Local clock offset: 0.105 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2019-01-17 09:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.39 Mbit/s
95th percentile per-packet one-way delay: 86.149 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.39 Mbit/s
95th percentile per-packet one-way delay: 86.149 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

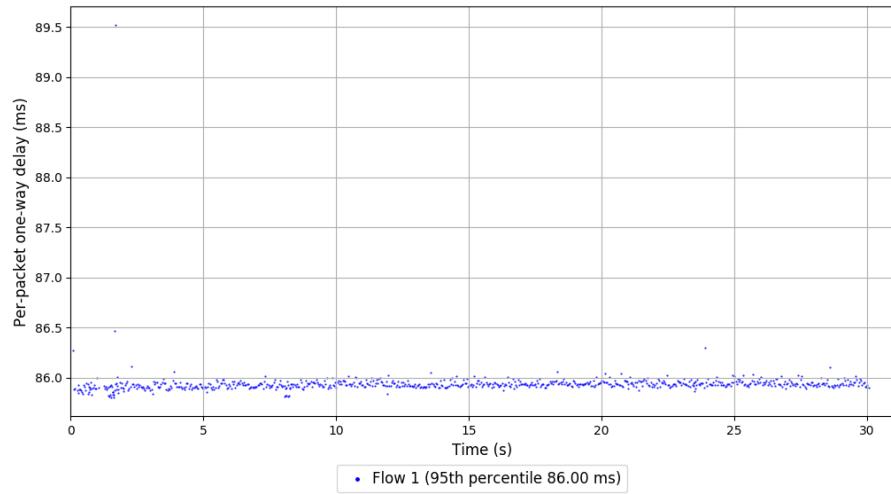
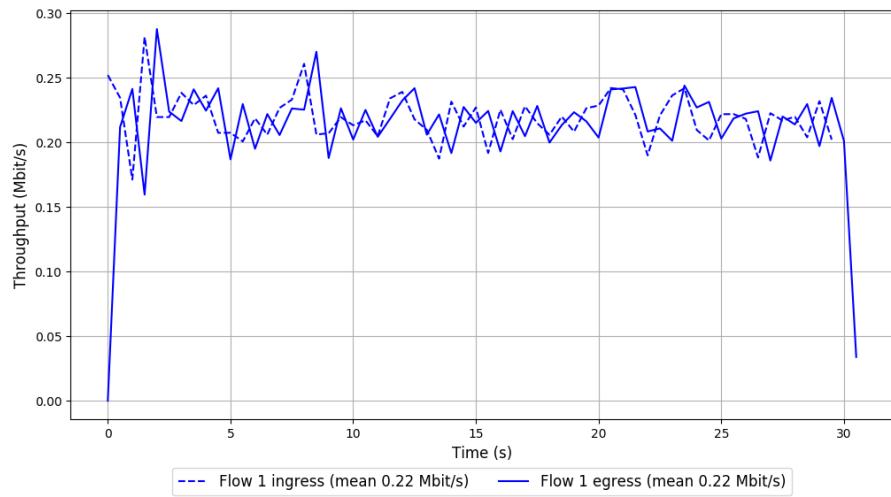


Run 1: Statistics of SCReAM

```
Start at: 2019-01-17 05:27:27
End at: 2019-01-17 05:27:57
Local clock offset: 1.114 ms
Remote clock offset: 1.005 ms

# Below is generated by plot.py at 2019-01-17 09:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.998 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

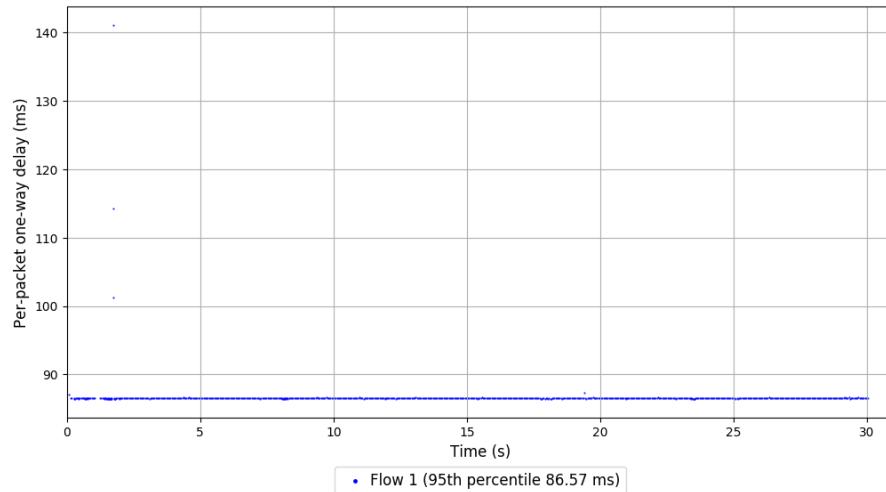
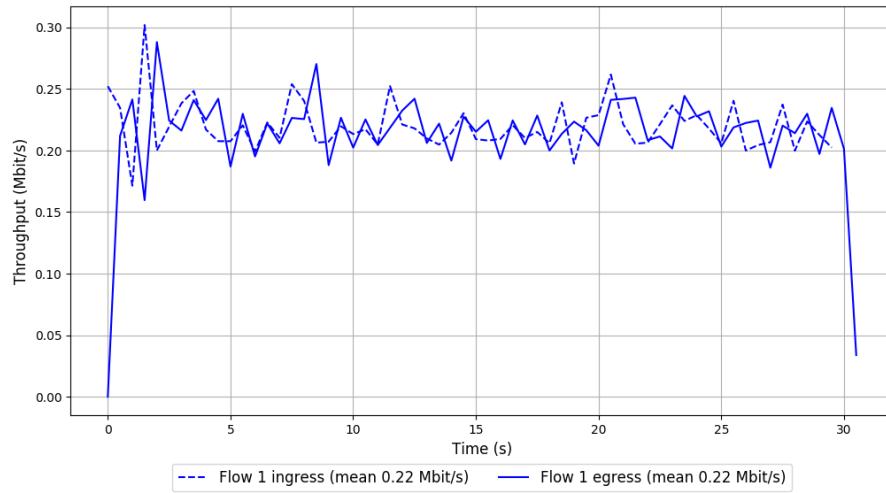


Run 2: Statistics of SCReAM

```
Start at: 2019-01-17 05:59:02
End at: 2019-01-17 05:59:32
Local clock offset: 0.166 ms
Remote clock offset: 0.301 ms

# Below is generated by plot.py at 2019-01-17 09:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.574 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.574 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

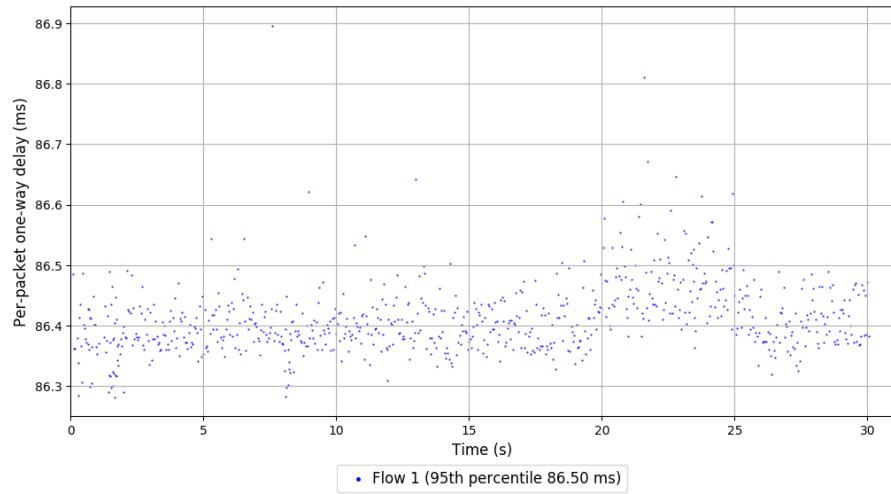
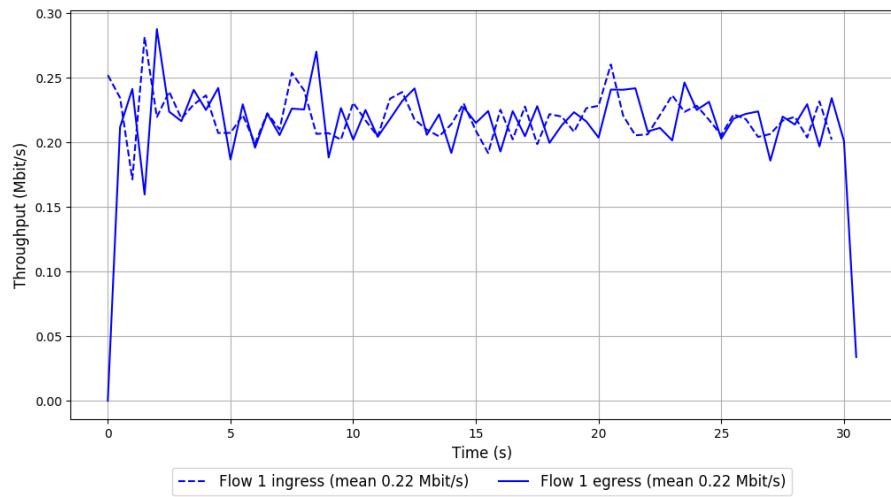


Run 3: Statistics of SCReAM

```
Start at: 2019-01-17 06:30:18
End at: 2019-01-17 06:30:48
Local clock offset: 0.055 ms
Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2019-01-17 09:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.504 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.504 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

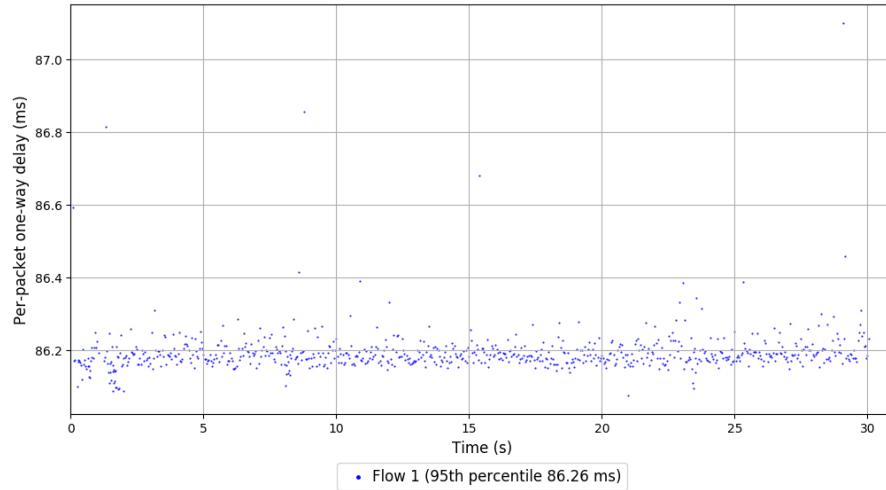
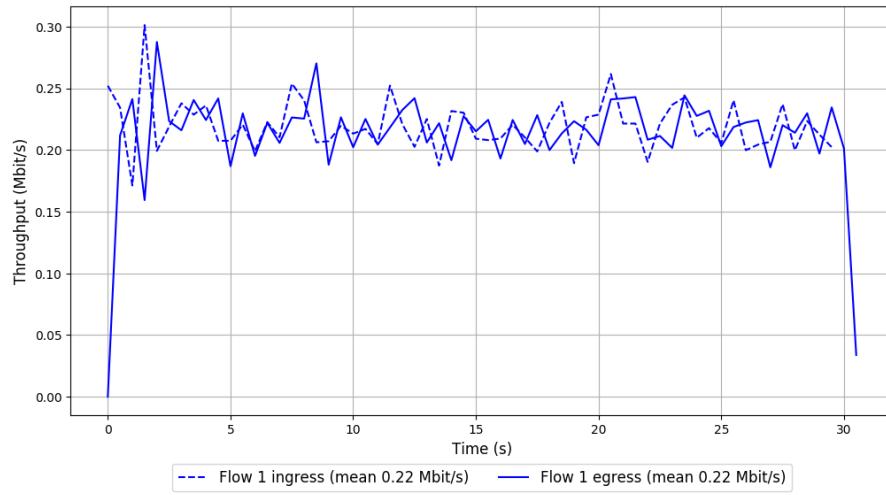


Run 4: Statistics of SCReAM

```
Start at: 2019-01-17 07:01:54
End at: 2019-01-17 07:02:24
Local clock offset: 0.14 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2019-01-17 09:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.262 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.262 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

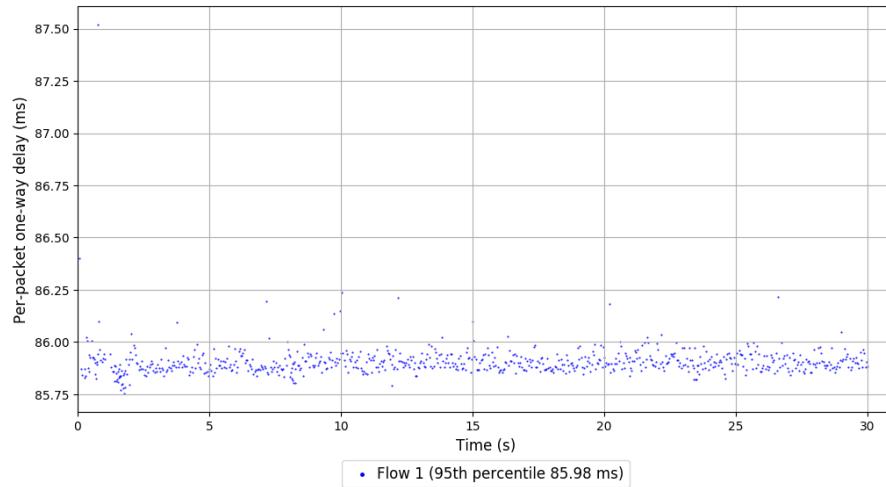
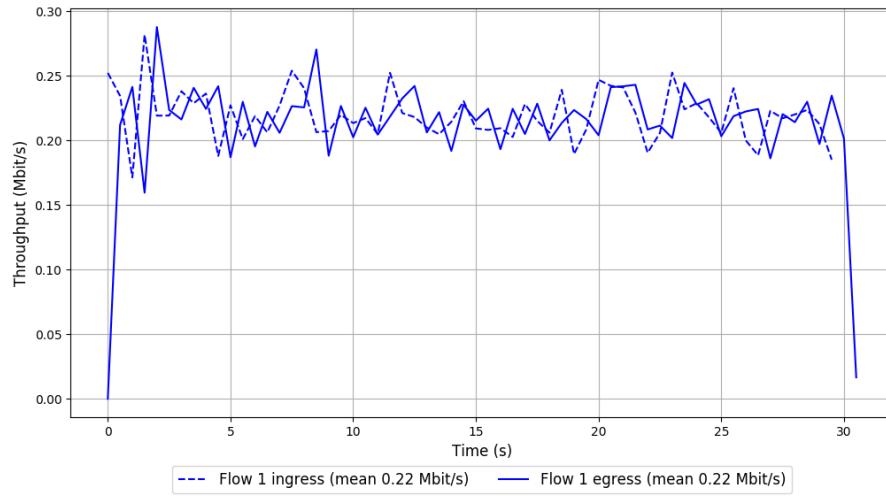


Run 5: Statistics of SCReAM

```
Start at: 2019-01-17 07:33:29
End at: 2019-01-17 07:33:59
Local clock offset: 0.18 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-01-17 09:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.985 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.985 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

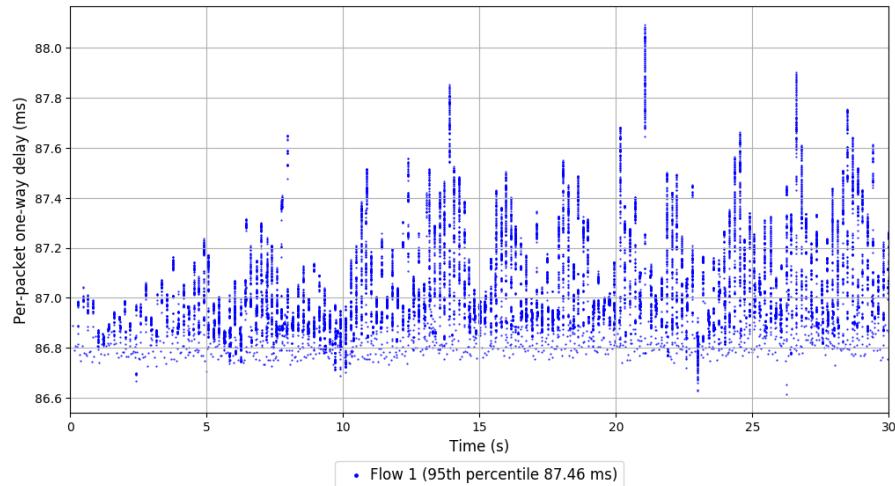
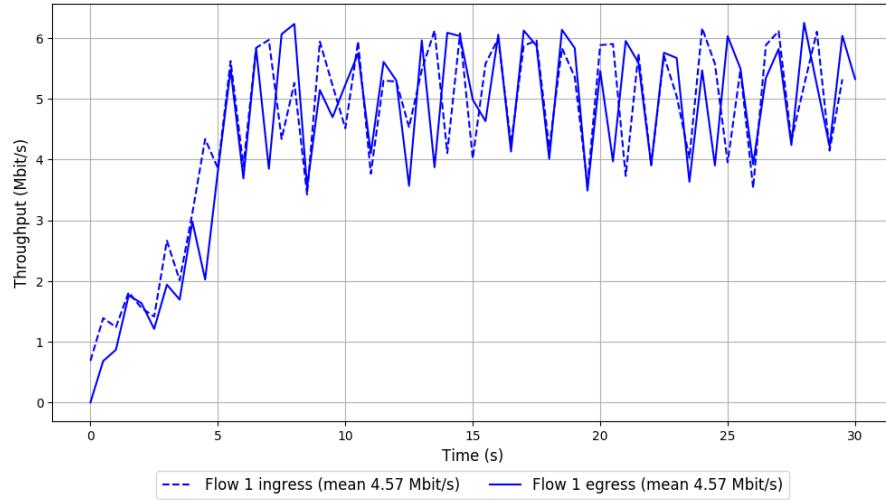


Run 1: Statistics of Sprout

```
Start at: 2019-01-17 05:28:36
End at: 2019-01-17 05:29:06
Local clock offset: 0.175 ms
Remote clock offset: 0.996 ms

# Below is generated by plot.py at 2019-01-17 09:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 87.459 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 87.459 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

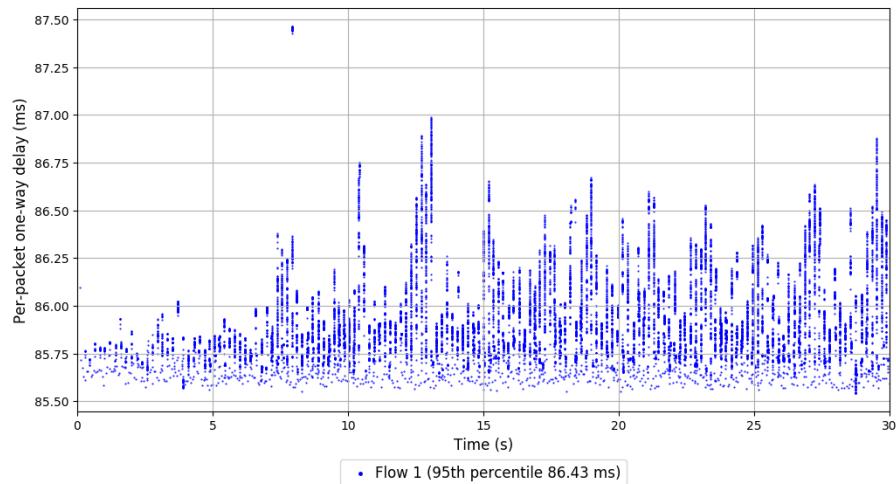
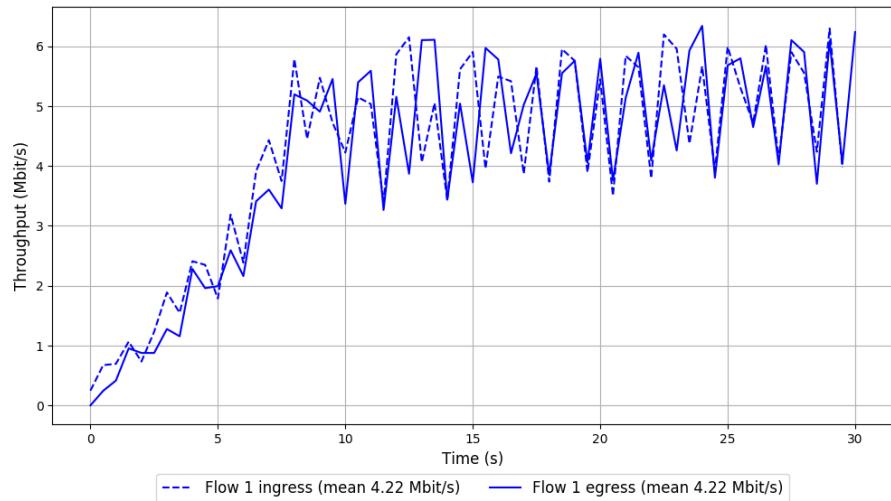


Run 2: Statistics of Sprout

```
Start at: 2019-01-17 06:00:11
End at: 2019-01-17 06:00:41
Local clock offset: 0.659 ms
Remote clock offset: 0.317 ms

# Below is generated by plot.py at 2019-01-17 09:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 86.430 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 86.430 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

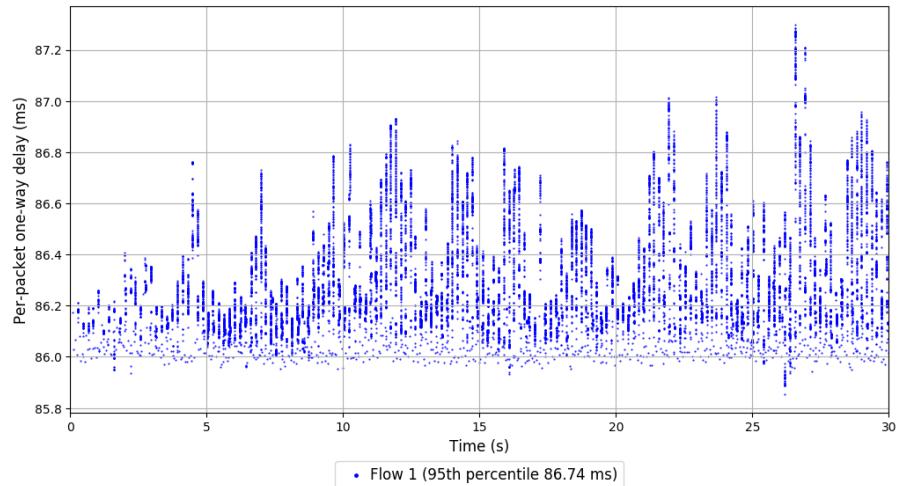
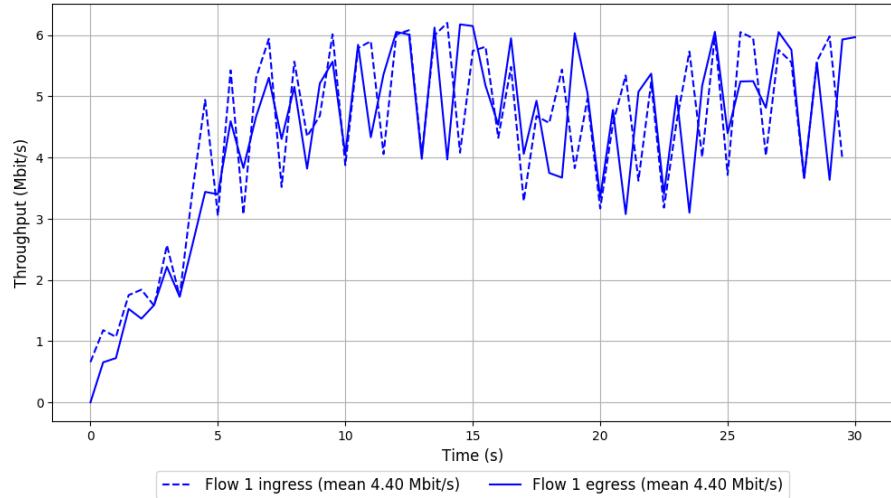


Run 3: Statistics of Sprout

```
Start at: 2019-01-17 06:31:27
End at: 2019-01-17 06:31:57
Local clock offset: 0.061 ms
Remote clock offset: 0.142 ms

# Below is generated by plot.py at 2019-01-17 09:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 86.742 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 86.742 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

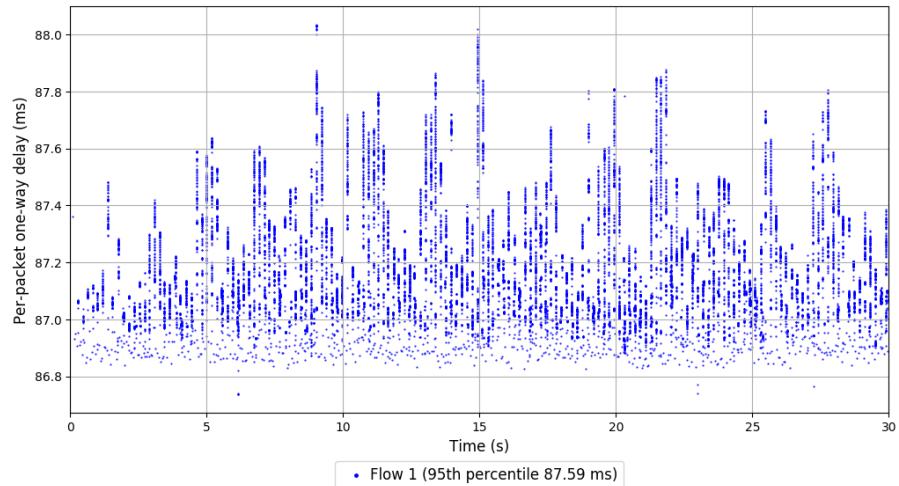
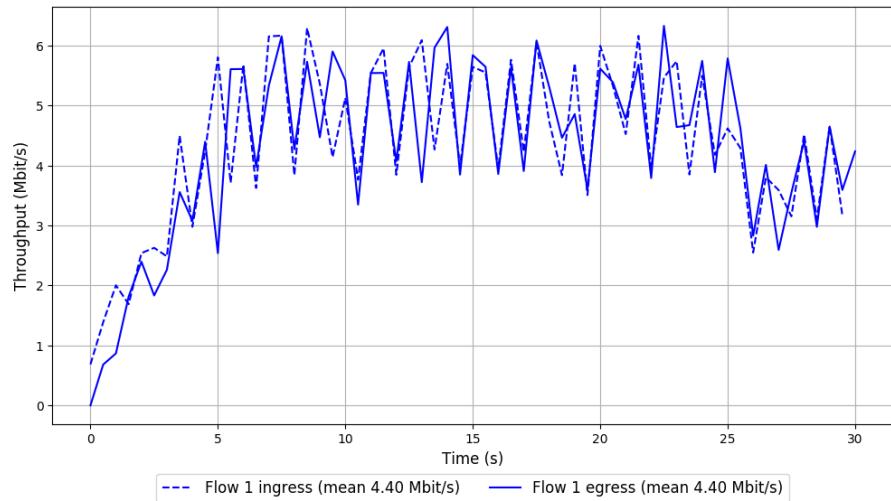


Run 4: Statistics of Sprout

```
Start at: 2019-01-17 07:03:03
End at: 2019-01-17 07:03:33
Local clock offset: -0.165 ms
Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2019-01-17 09:37:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 87.590 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 87.590 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

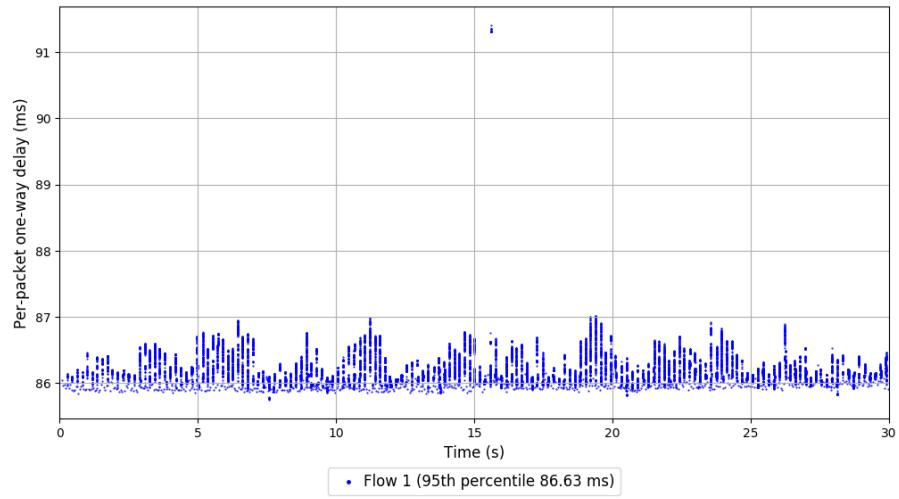
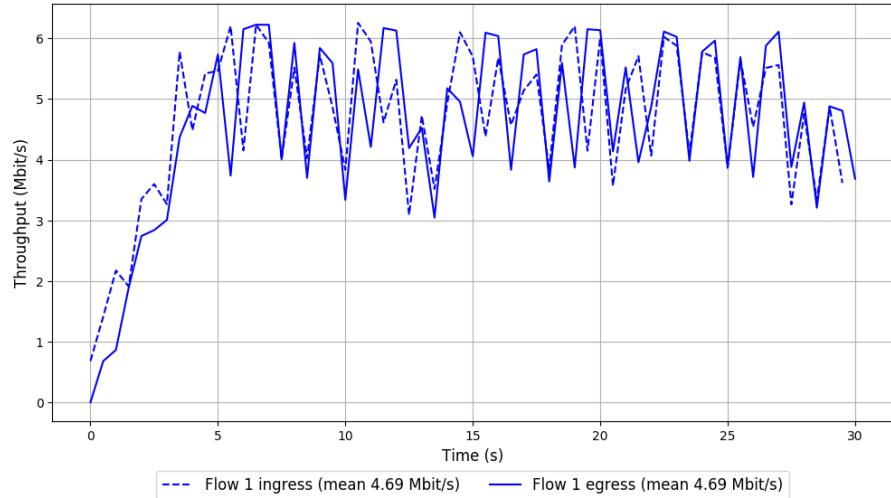


Run 5: Statistics of Sprout

```
Start at: 2019-01-17 07:34:38
End at: 2019-01-17 07:35:08
Local clock offset: 0.103 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-01-17 09:37:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.69 Mbit/s
95th percentile per-packet one-way delay: 86.629 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.69 Mbit/s
95th percentile per-packet one-way delay: 86.629 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

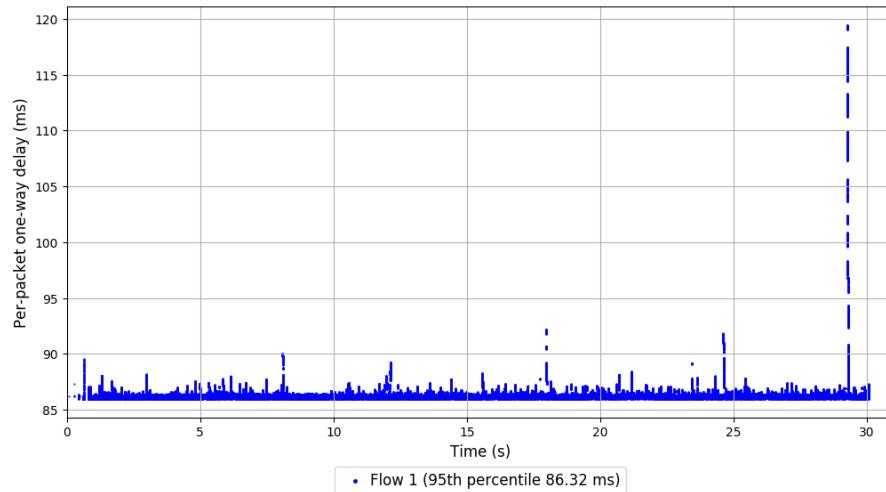
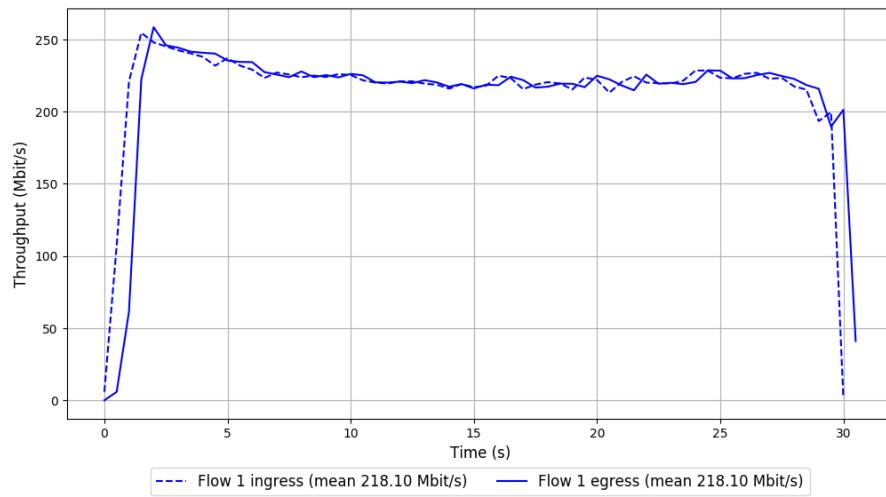


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-17 05:36:28
End at: 2019-01-17 05:36:58
Local clock offset: 0.633 ms
Remote clock offset: 0.978 ms

# Below is generated by plot.py at 2019-01-17 09:38:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.10 Mbit/s
95th percentile per-packet one-way delay: 86.321 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 218.10 Mbit/s
95th percentile per-packet one-way delay: 86.321 ms
Loss rate: 0.00%
```

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

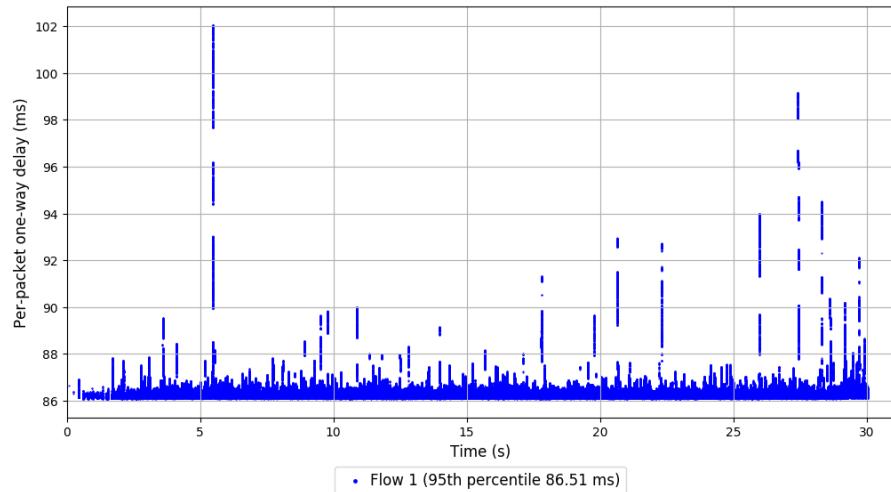
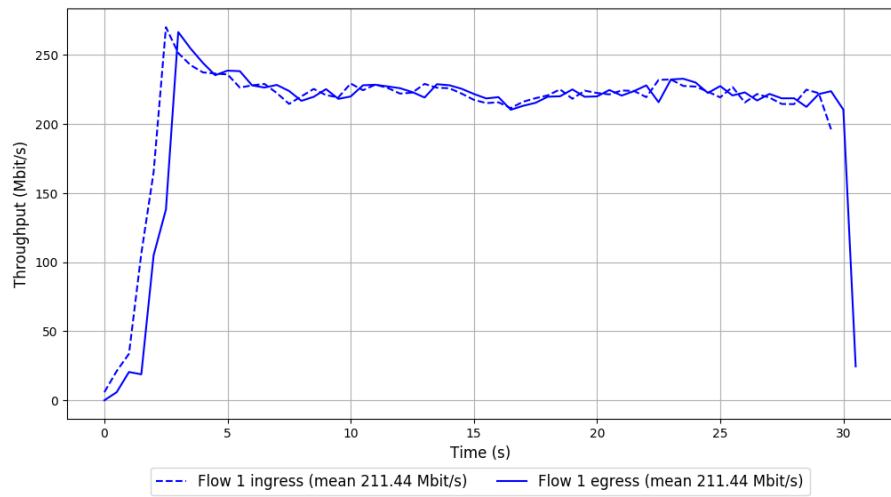


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-17 06:08:09
End at: 2019-01-17 06:08:39
Local clock offset: 0.393 ms
Remote clock offset: 0.367 ms

# Below is generated by plot.py at 2019-01-17 09:38:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.44 Mbit/s
95th percentile per-packet one-way delay: 86.513 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.44 Mbit/s
95th percentile per-packet one-way delay: 86.513 ms
Loss rate: 0.00%
```

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

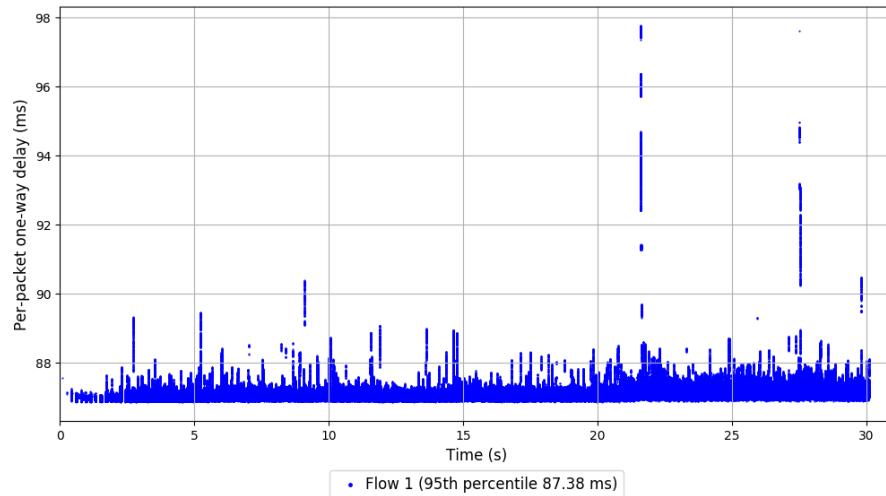
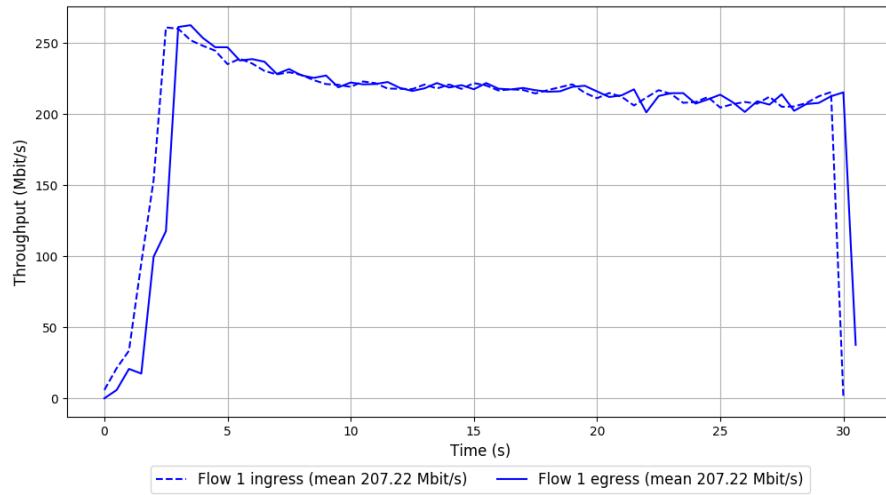


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-17 06:39:23
End at: 2019-01-17 06:39:53
Local clock offset: -0.203 ms
Remote clock offset: 0.266 ms

# Below is generated by plot.py at 2019-01-17 09:38:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.22 Mbit/s
95th percentile per-packet one-way delay: 87.384 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 207.22 Mbit/s
95th percentile per-packet one-way delay: 87.384 ms
Loss rate: 0.00%
```

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

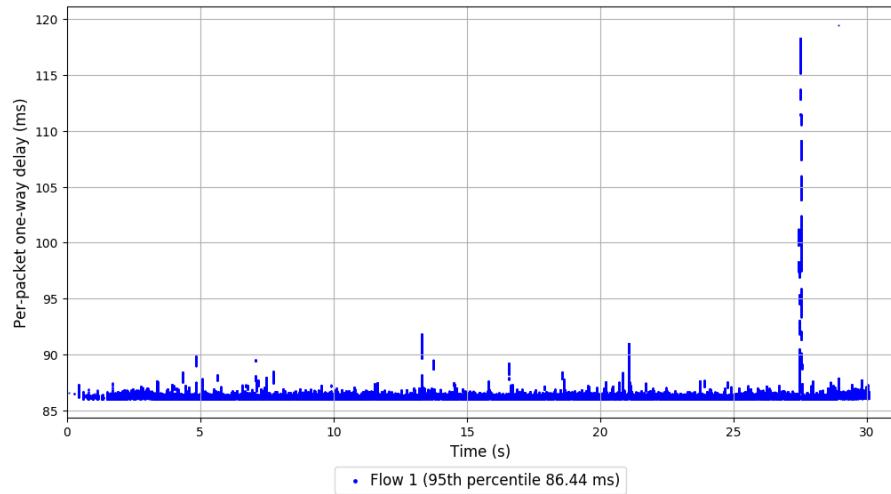
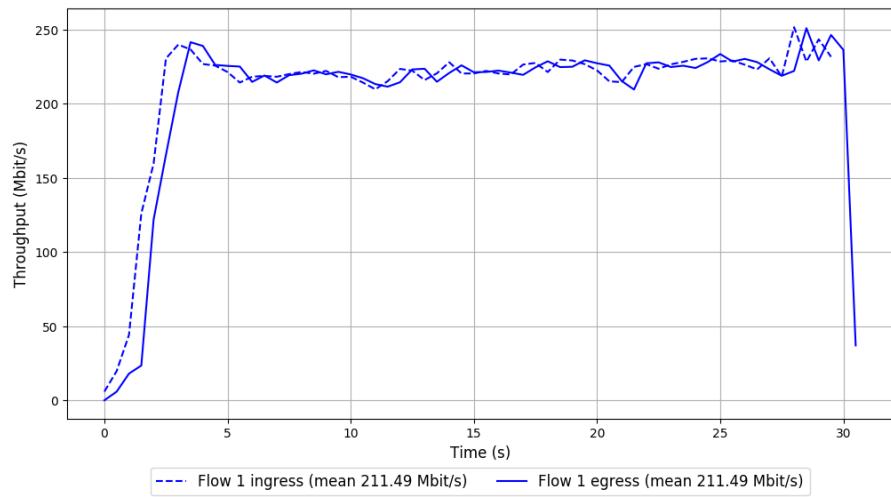


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-17 07:10:57
End at: 2019-01-17 07:11:28
Local clock offset: -0.338 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-01-17 09:38:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.49 Mbit/s
95th percentile per-packet one-way delay: 86.443 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.49 Mbit/s
95th percentile per-packet one-way delay: 86.443 ms
Loss rate: 0.00%
```

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

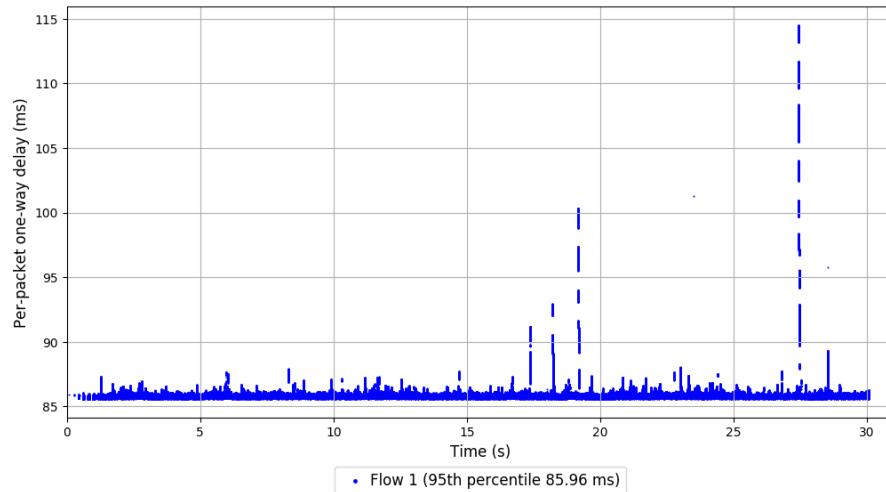
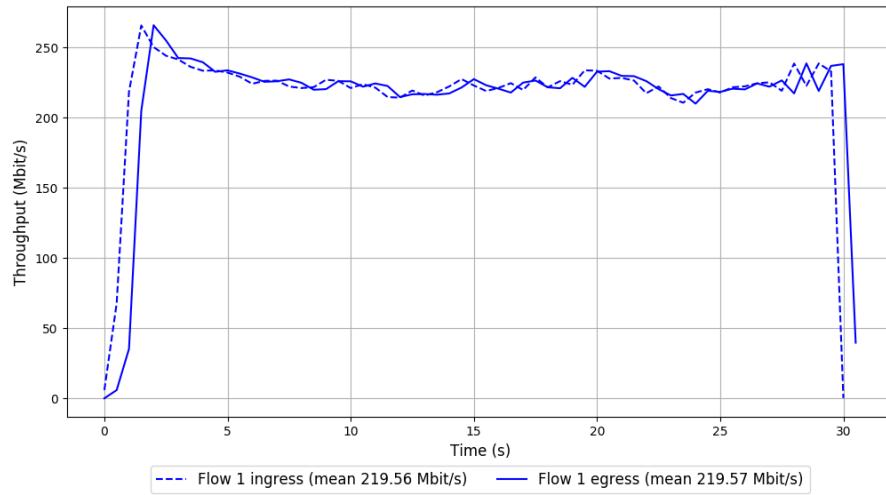


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-17 07:42:51
End at: 2019-01-17 07:43:21
Local clock offset: 0.561 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-01-17 09:40:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.57 Mbit/s
95th percentile per-packet one-way delay: 85.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.57 Mbit/s
95th percentile per-packet one-way delay: 85.958 ms
Loss rate: 0.00%
```

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

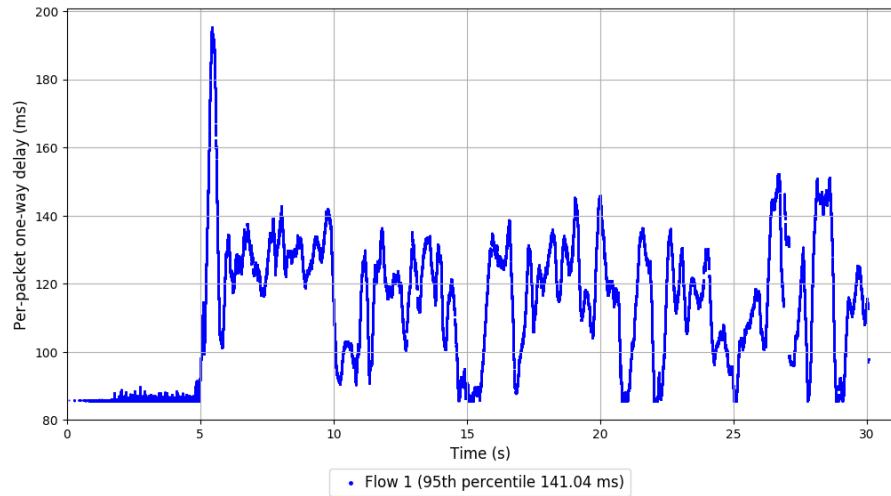
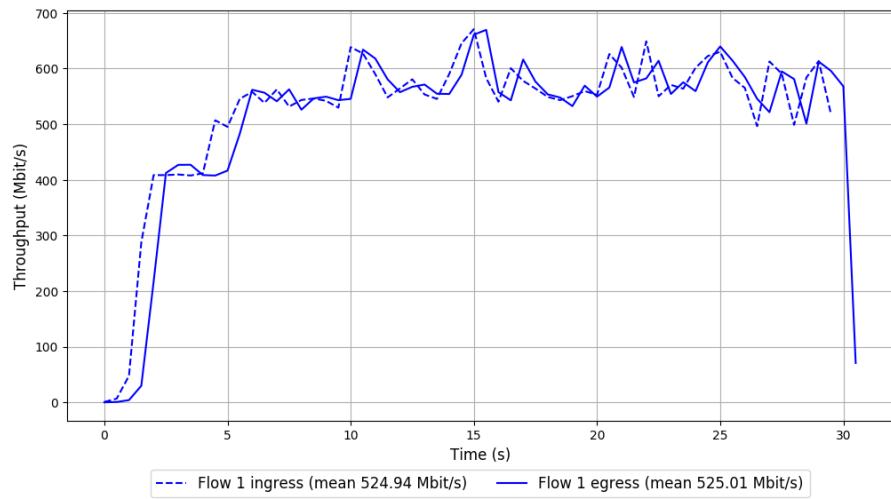


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-17 05:18:42
End at: 2019-01-17 05:19:12
Local clock offset: 0.984 ms
Remote clock offset: 1.626 ms

# Below is generated by plot.py at 2019-01-17 09:42:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 525.01 Mbit/s
95th percentile per-packet one-way delay: 141.037 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 525.01 Mbit/s
95th percentile per-packet one-way delay: 141.037 ms
Loss rate: 0.05%
```

Run 1: Report of TCP Vegas — Data Link

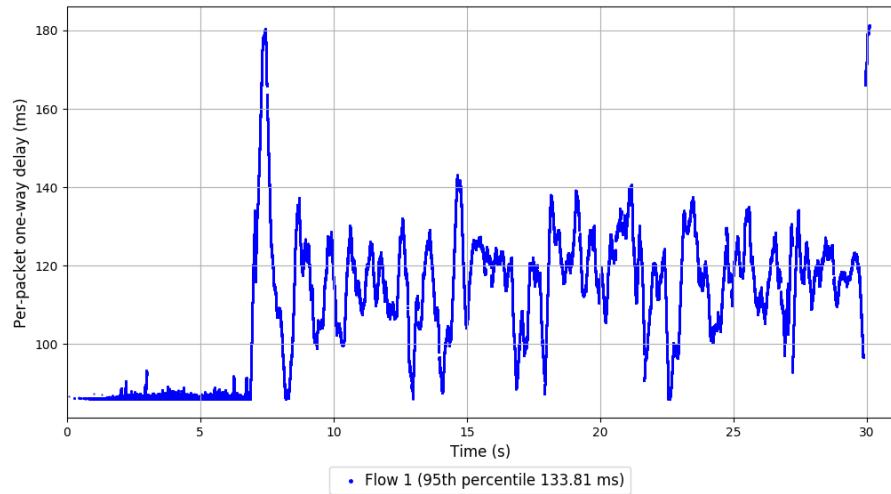
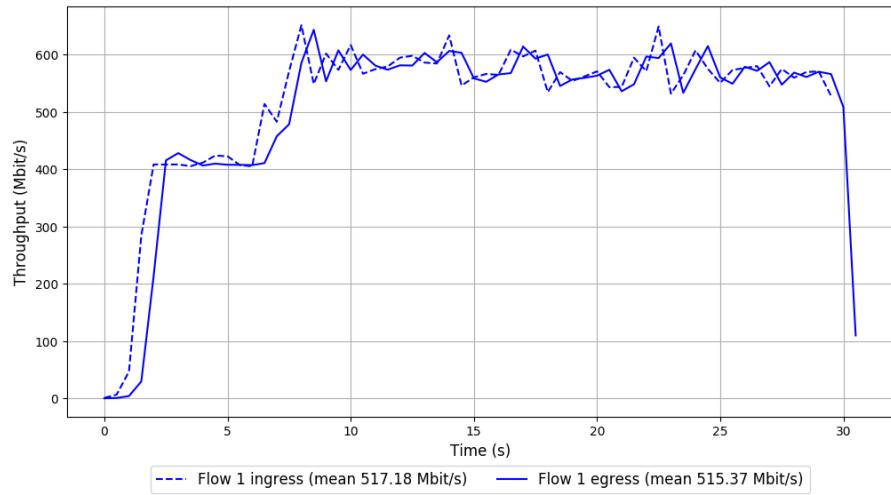


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-17 05:50:10
End at: 2019-01-17 05:50:40
Local clock offset: 0.314 ms
Remote clock offset: 0.492 ms

# Below is generated by plot.py at 2019-01-17 09:47:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 515.37 Mbit/s
95th percentile per-packet one-way delay: 133.810 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 515.37 Mbit/s
95th percentile per-packet one-way delay: 133.810 ms
Loss rate: 0.15%
```

Run 2: Report of TCP Vegas — Data Link

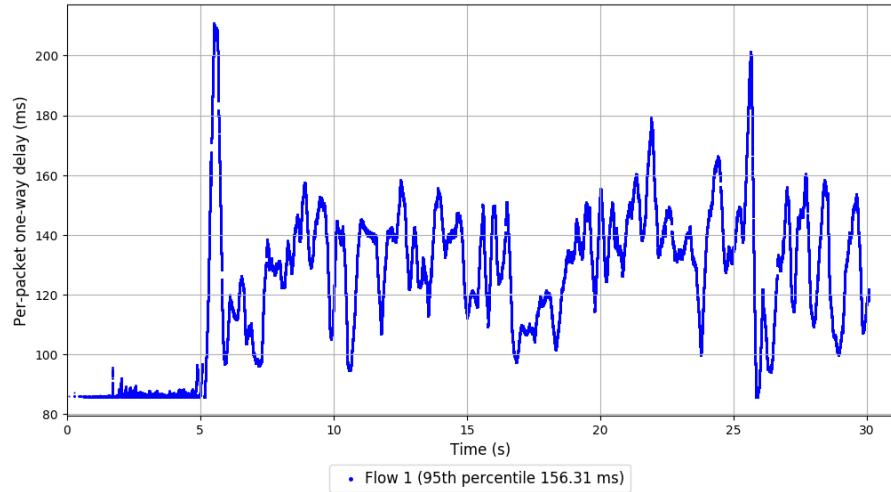
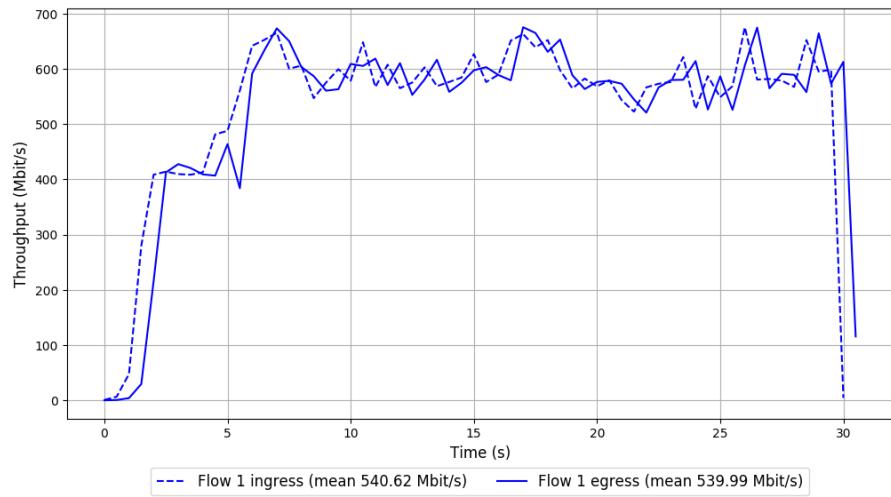


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-17 06:21:36
End at: 2019-01-17 06:22:06
Local clock offset: 0.134 ms
Remote clock offset: 0.232 ms

# Below is generated by plot.py at 2019-01-17 09:48:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 539.99 Mbit/s
95th percentile per-packet one-way delay: 156.315 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 539.99 Mbit/s
95th percentile per-packet one-way delay: 156.315 ms
Loss rate: 0.11%
```

Run 3: Report of TCP Vegas — Data Link

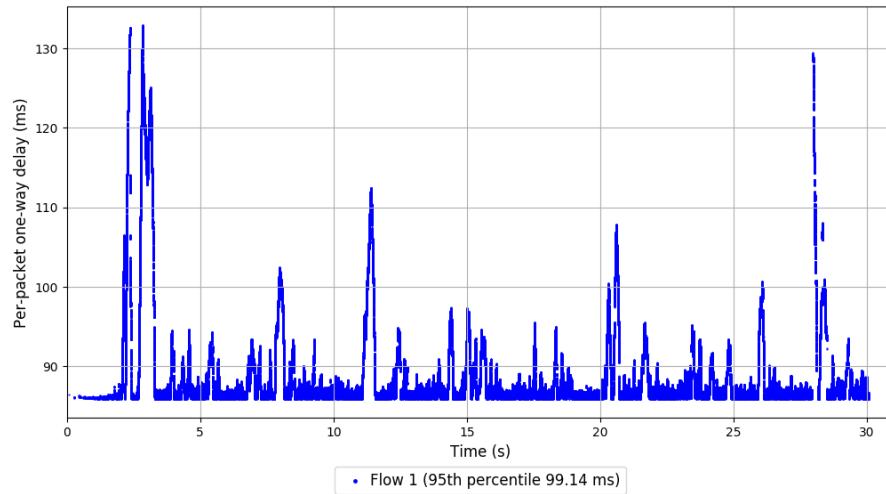
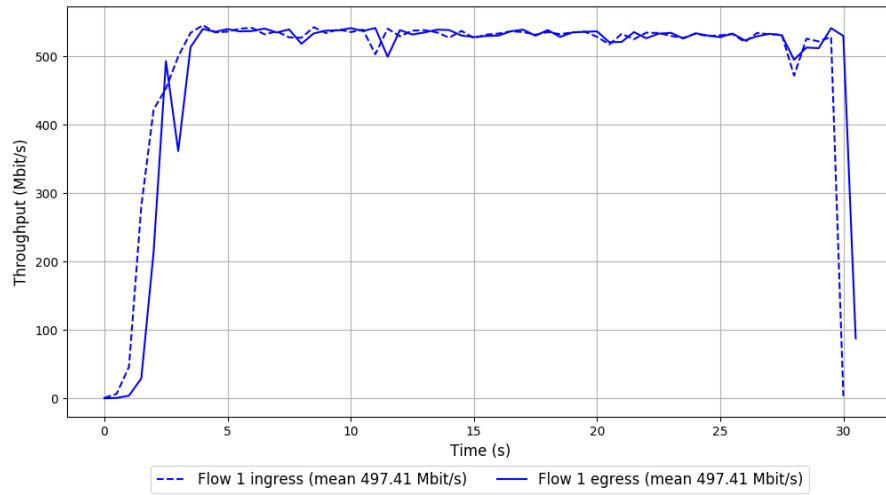


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-17 06:53:01
End at: 2019-01-17 06:53:31
Local clock offset: -0.05 ms
Remote clock offset: 0.147 ms

# Below is generated by plot.py at 2019-01-17 09:48:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 497.41 Mbit/s
95th percentile per-packet one-way delay: 99.140 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 497.41 Mbit/s
95th percentile per-packet one-way delay: 99.140 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

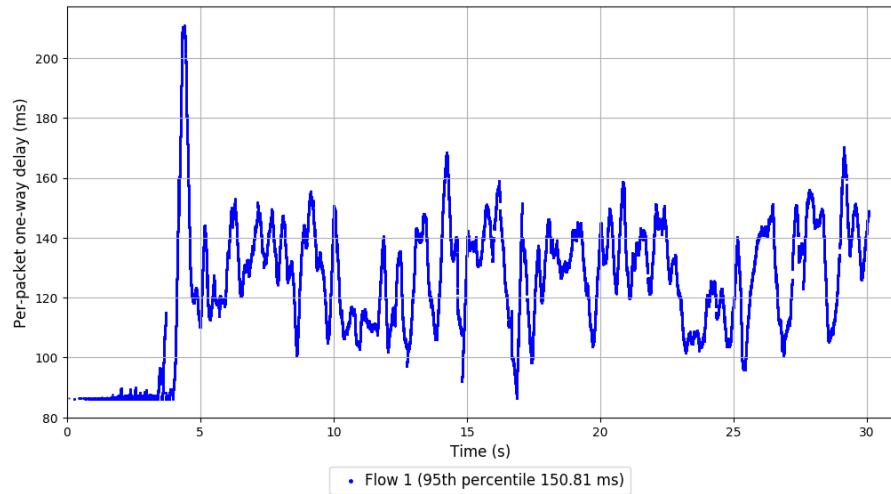
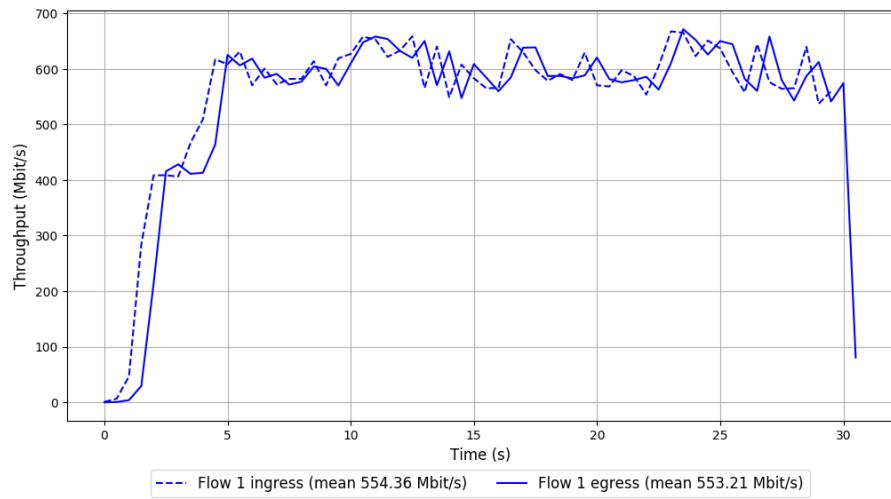


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-17 07:24:26
End at: 2019-01-17 07:24:56
Local clock offset: 0.041 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-01-17 09:49:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 553.21 Mbit/s
95th percentile per-packet one-way delay: 150.813 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 553.21 Mbit/s
95th percentile per-packet one-way delay: 150.813 ms
Loss rate: 0.21%
```

Run 5: Report of TCP Vegas — Data Link

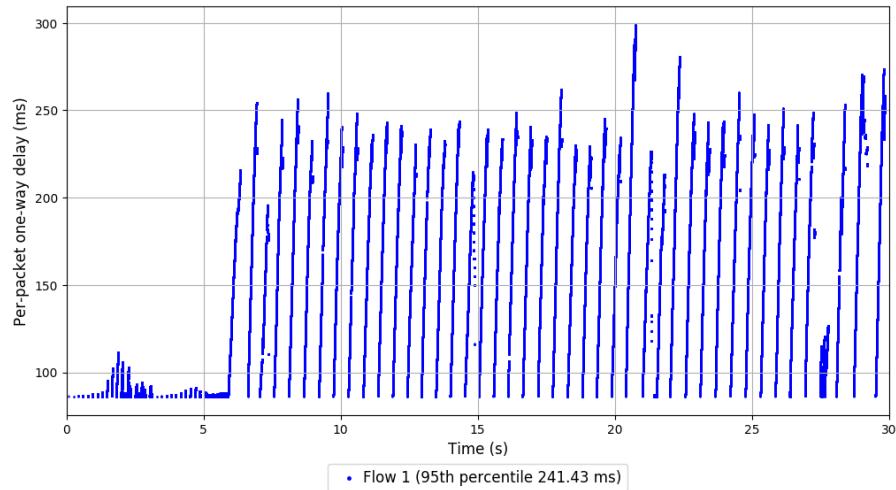
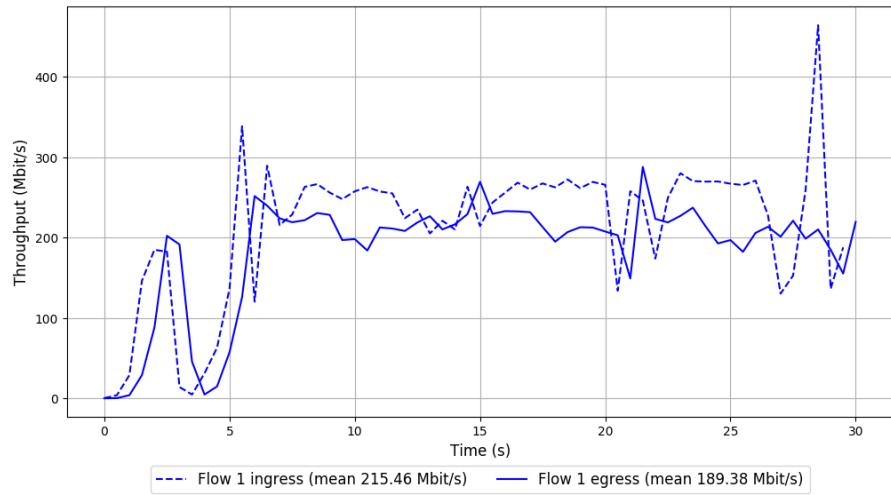


Run 1: Statistics of Verus

```
Start at: 2019-01-17 05:41:23
End at: 2019-01-17 05:41:53
Local clock offset: 0.574 ms
Remote clock offset: 1.009 ms

# Below is generated by plot.py at 2019-01-17 09:49:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.38 Mbit/s
95th percentile per-packet one-way delay: 241.433 ms
Loss rate: 11.67%
-- Flow 1:
Average throughput: 189.38 Mbit/s
95th percentile per-packet one-way delay: 241.433 ms
Loss rate: 11.67%
```

Run 1: Report of Verus — Data Link

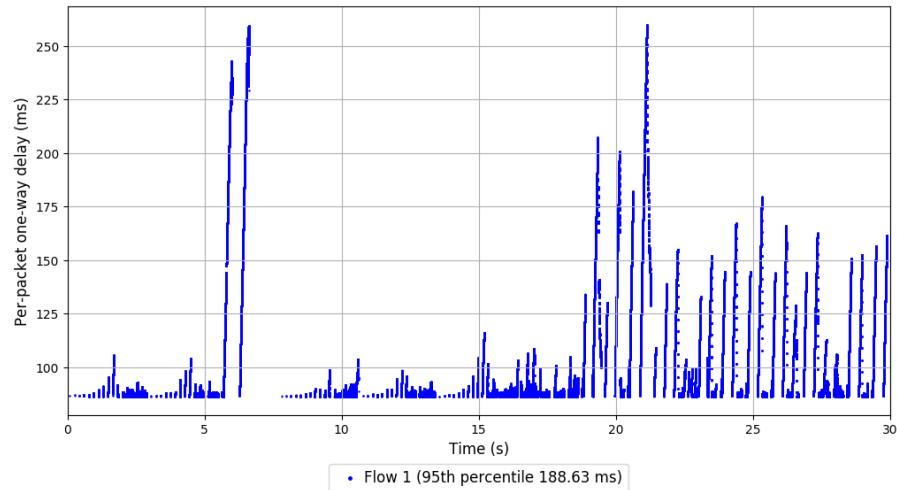
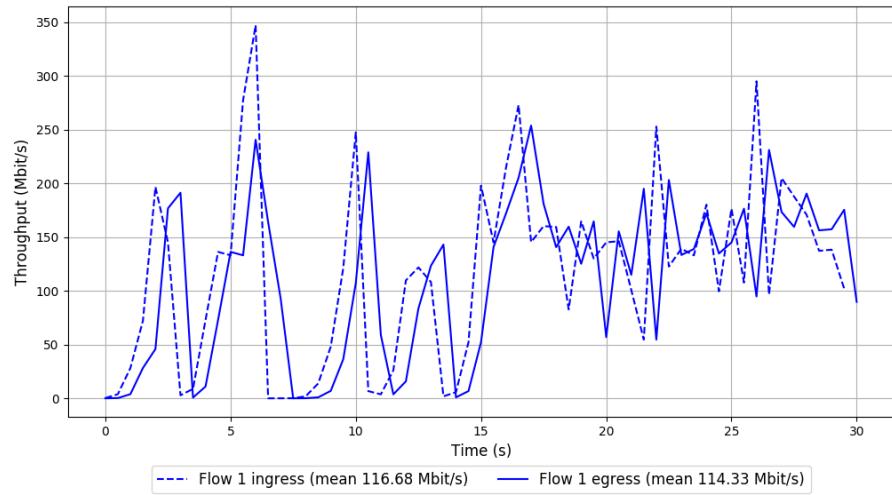


Run 2: Statistics of Verus

```
Start at: 2019-01-17 06:13:06
End at: 2019-01-17 06:13:36
Local clock offset: -0.095 ms
Remote clock offset: 0.398 ms

# Below is generated by plot.py at 2019-01-17 09:49:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 114.33 Mbit/s
95th percentile per-packet one-way delay: 188.629 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 114.33 Mbit/s
95th percentile per-packet one-way delay: 188.629 ms
Loss rate: 2.01%
```

Run 2: Report of Verus — Data Link

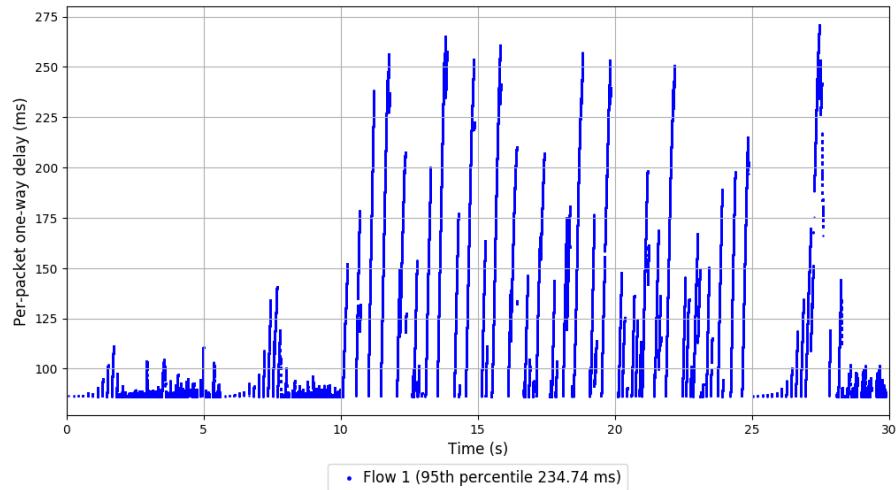
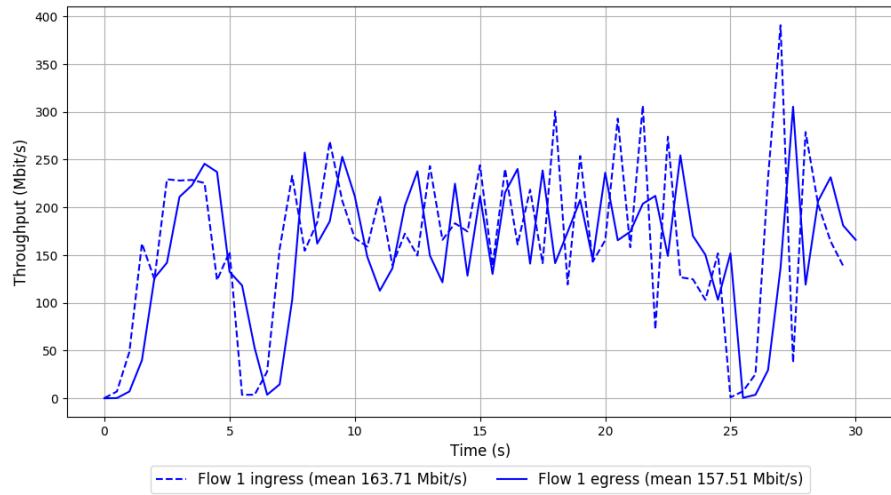


Run 3: Statistics of Verus

```
Start at: 2019-01-17 06:44:20
End at: 2019-01-17 06:44:50
Local clock offset: -0.169 ms
Remote clock offset: 0.205 ms

# Below is generated by plot.py at 2019-01-17 09:49:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.51 Mbit/s
95th percentile per-packet one-way delay: 234.738 ms
Loss rate: 3.78%
-- Flow 1:
Average throughput: 157.51 Mbit/s
95th percentile per-packet one-way delay: 234.738 ms
Loss rate: 3.78%
```

Run 3: Report of Verus — Data Link

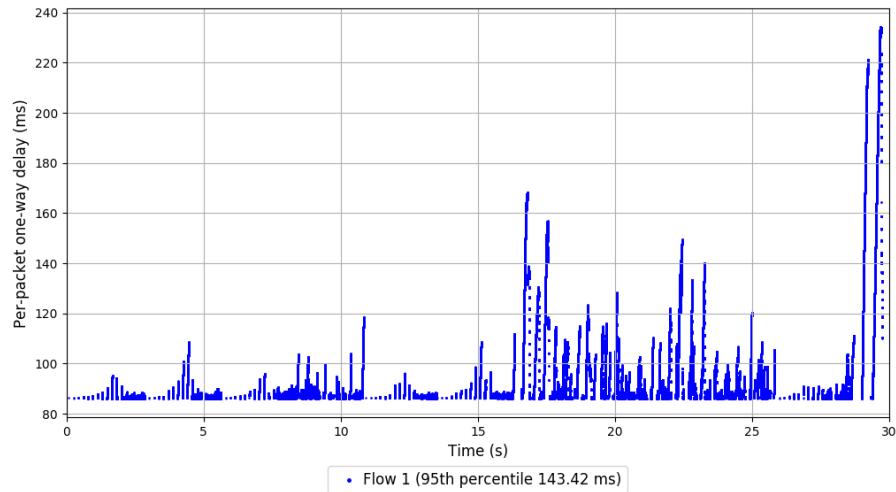
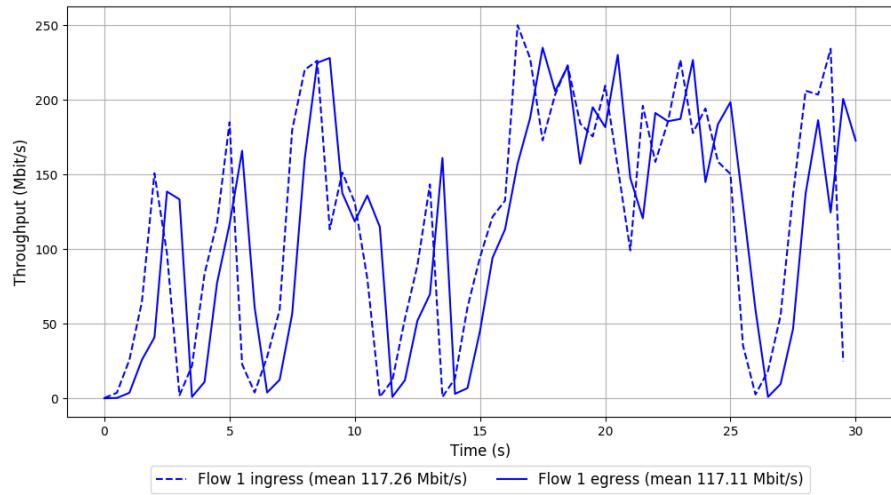


Run 4: Statistics of Verus

```
Start at: 2019-01-17 07:15:54
End at: 2019-01-17 07:16:24
Local clock offset: -0.128 ms
Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2019-01-17 09:49:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 117.11 Mbit/s
95th percentile per-packet one-way delay: 143.424 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 117.11 Mbit/s
95th percentile per-packet one-way delay: 143.424 ms
Loss rate: 0.05%
```

Run 4: Report of Verus — Data Link

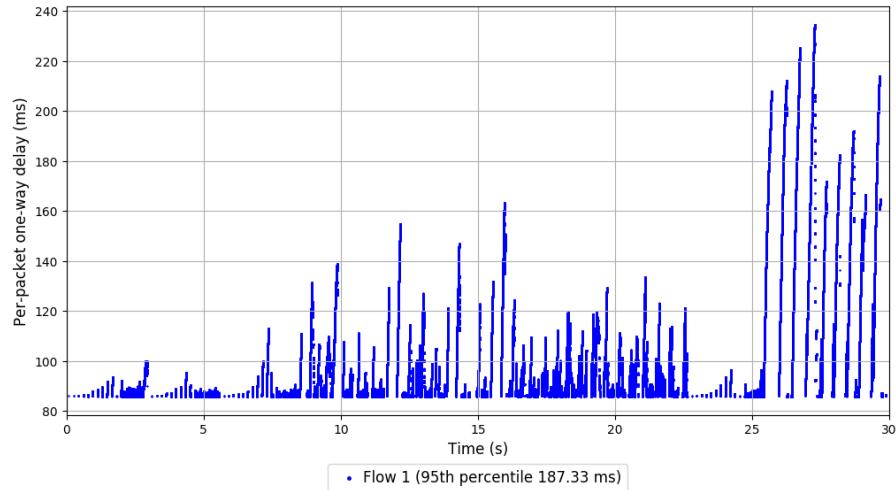
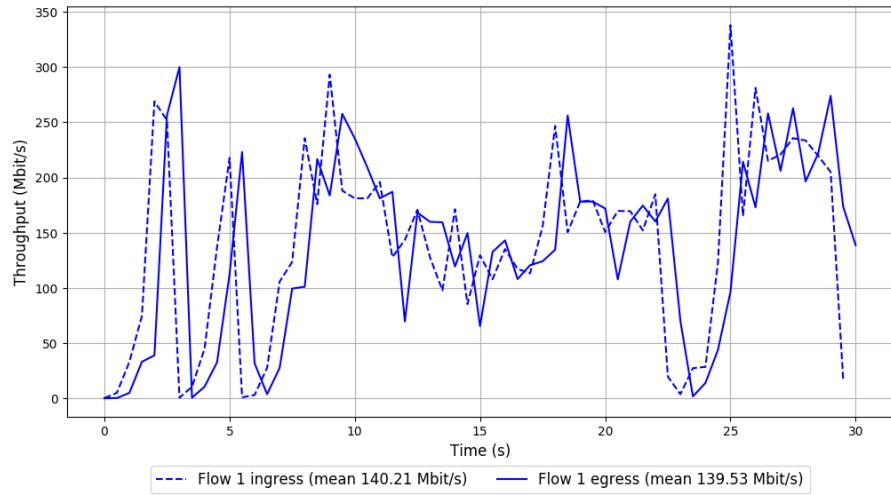


Run 5: Statistics of Verus

```
Start at: 2019-01-17 07:47:51
End at: 2019-01-17 07:48:21
Local clock offset: 0.396 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-01-17 09:49:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 139.53 Mbit/s
95th percentile per-packet one-way delay: 187.332 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 139.53 Mbit/s
95th percentile per-packet one-way delay: 187.332 ms
Loss rate: 0.48%
```

Run 5: Report of Verus — Data Link

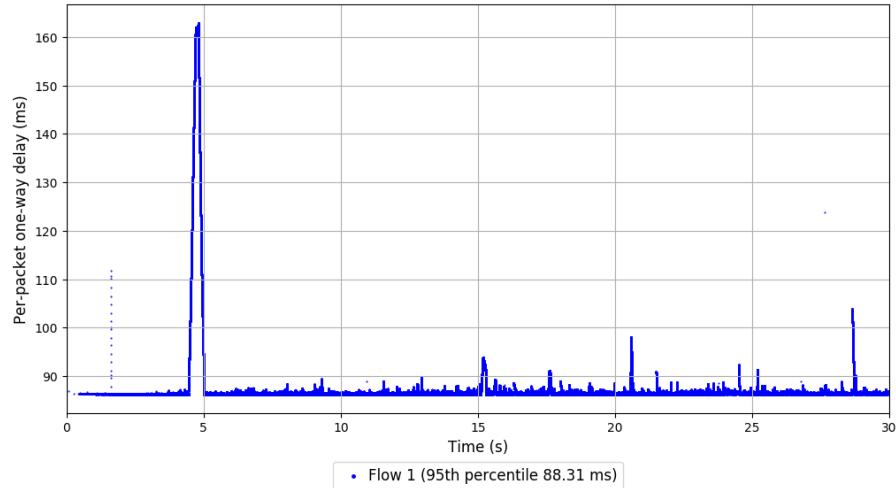
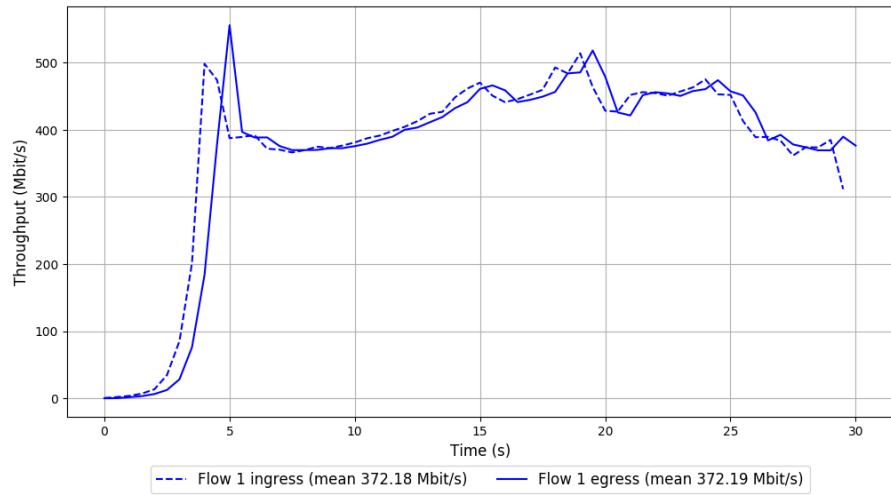


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-17 05:14:26
End at: 2019-01-17 05:14:56
Local clock offset: 0.62 ms
Remote clock offset: 2.45 ms

# Below is generated by plot.py at 2019-01-17 09:51:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 372.19 Mbit/s
95th percentile per-packet one-way delay: 88.315 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 372.19 Mbit/s
95th percentile per-packet one-way delay: 88.315 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

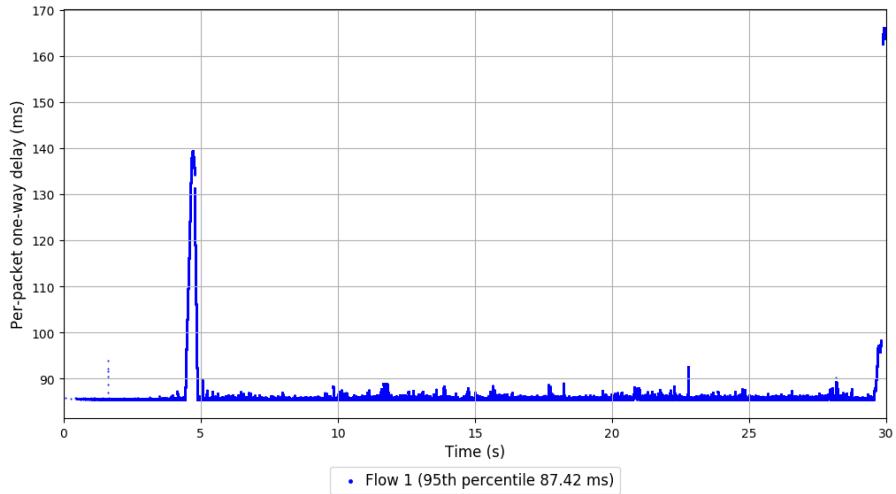
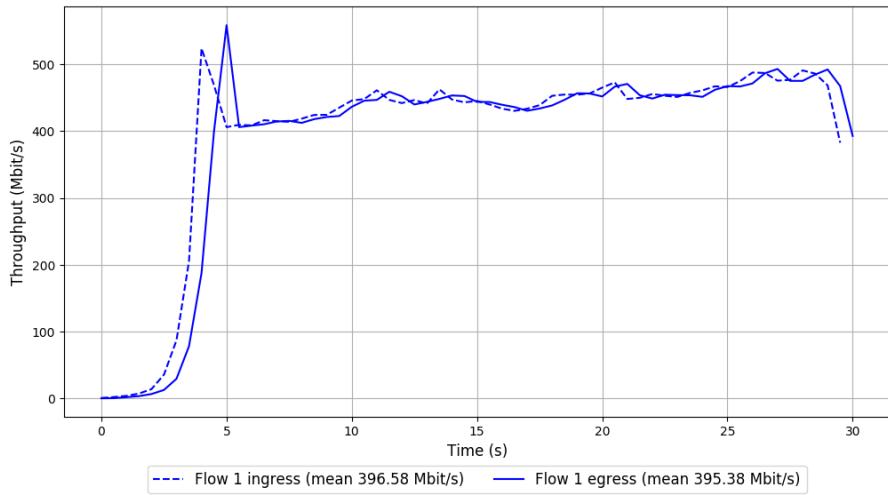


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-17 05:45:56
End at: 2019-01-17 05:46:26
Local clock offset: 0.861 ms
Remote clock offset: 0.675 ms

# Below is generated by plot.py at 2019-01-17 09:52:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 395.38 Mbit/s
95th percentile per-packet one-way delay: 87.421 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 395.38 Mbit/s
95th percentile per-packet one-way delay: 87.421 ms
Loss rate: 0.30%
```

Run 2: Report of PCC-Vivace — Data Link

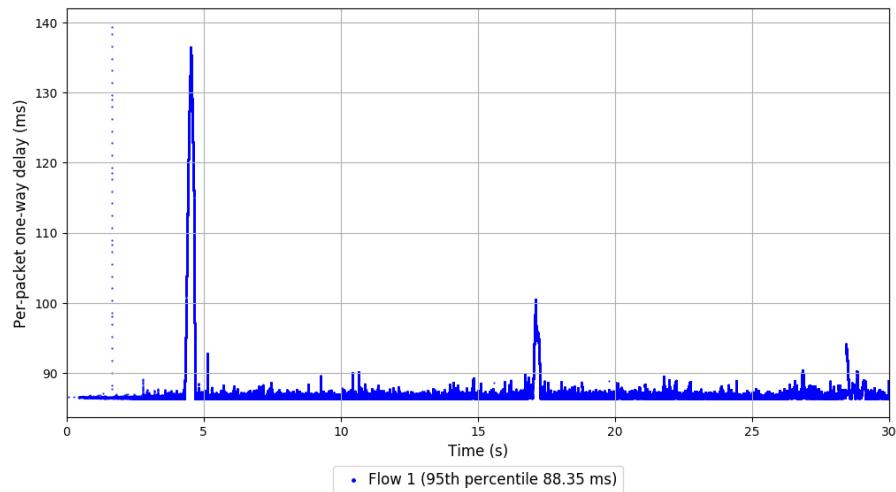
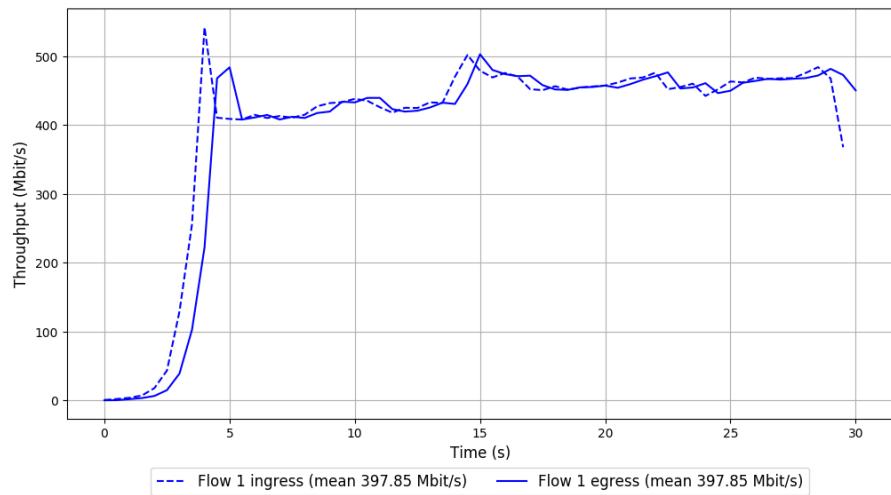


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-17 06:17:23
End at: 2019-01-17 06:17:53
Local clock offset: 0.001 ms
Remote clock offset: 0.387 ms

# Below is generated by plot.py at 2019-01-17 09:52:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 397.85 Mbit/s
95th percentile per-packet one-way delay: 88.350 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 397.85 Mbit/s
95th percentile per-packet one-way delay: 88.350 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

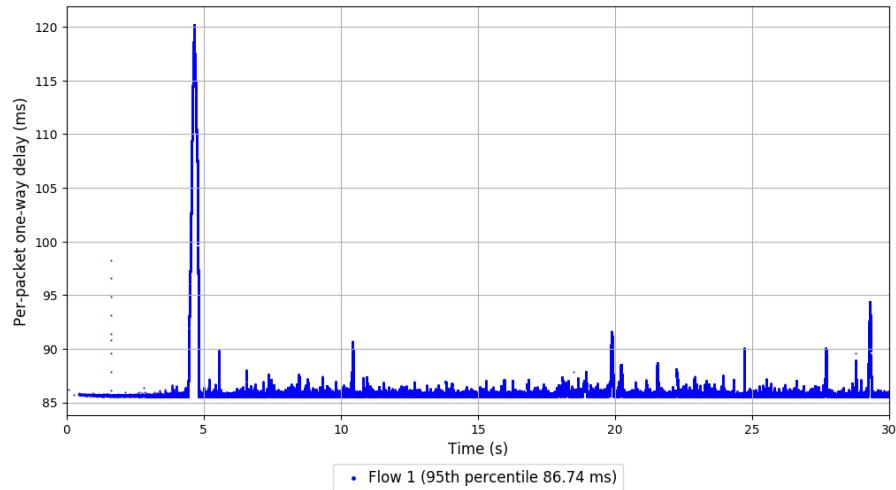
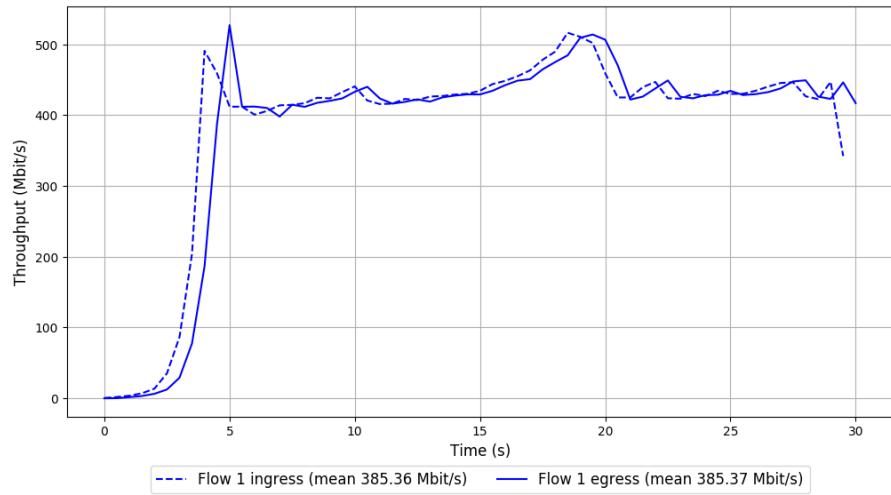


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-17 06:48:54
End at: 2019-01-17 06:49:24
Local clock offset: 0.38 ms
Remote clock offset: 0.223 ms

# Below is generated by plot.py at 2019-01-17 09:52:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 385.37 Mbit/s
95th percentile per-packet one-way delay: 86.741 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 385.37 Mbit/s
95th percentile per-packet one-way delay: 86.741 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

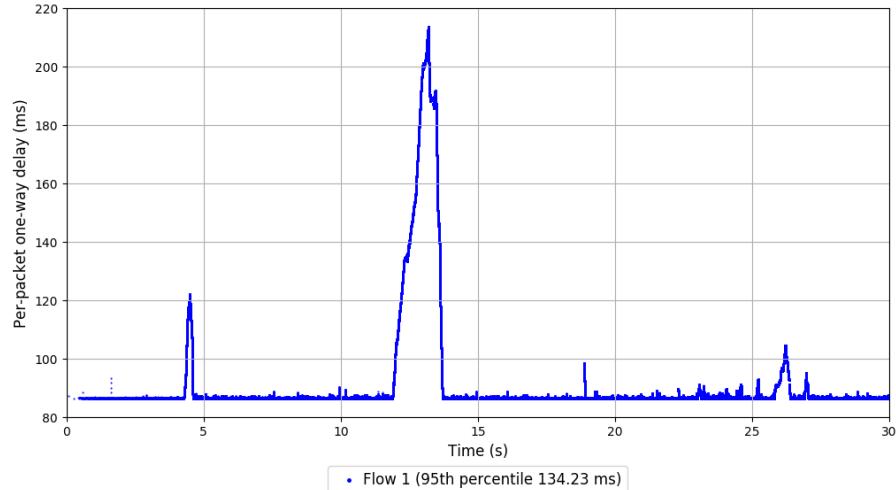
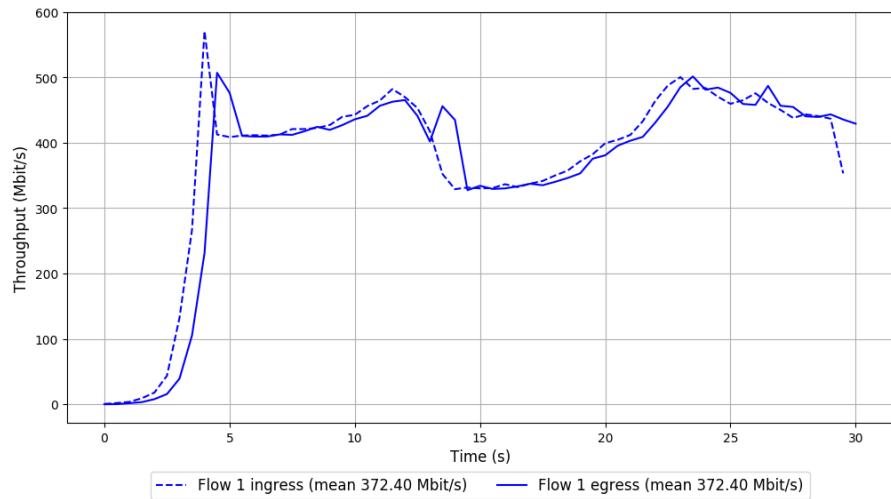


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-17 07:20:22
End at: 2019-01-17 07:20:52
Local clock offset: -0.318 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2019-01-17 09:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 372.40 Mbit/s
95th percentile per-packet one-way delay: 134.232 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 372.40 Mbit/s
95th percentile per-packet one-way delay: 134.232 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

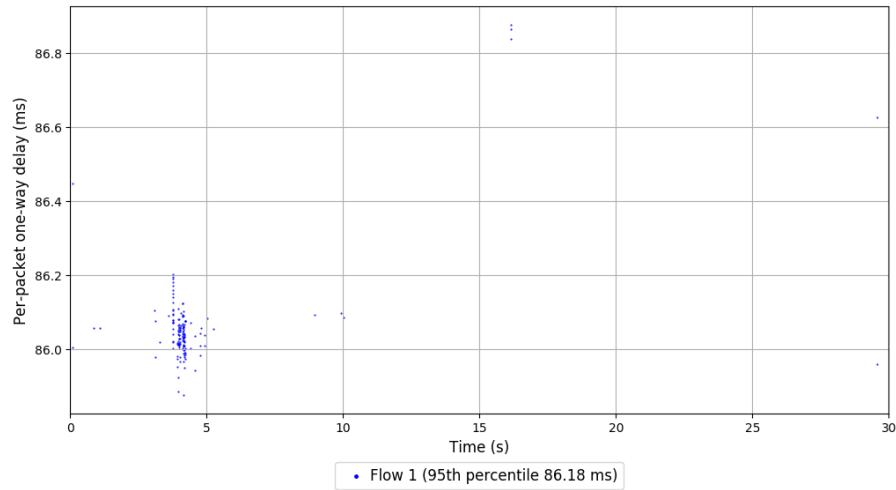
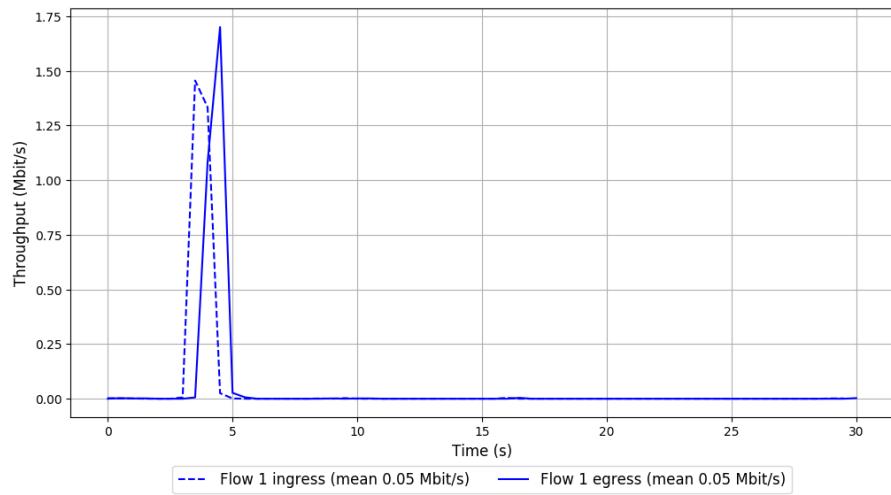


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-17 05:23:27
End at: 2019-01-17 05:23:57
Local clock offset: 0.568 ms
Remote clock offset: 1.189 ms

# Below is generated by plot.py at 2019-01-17 09:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.181 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

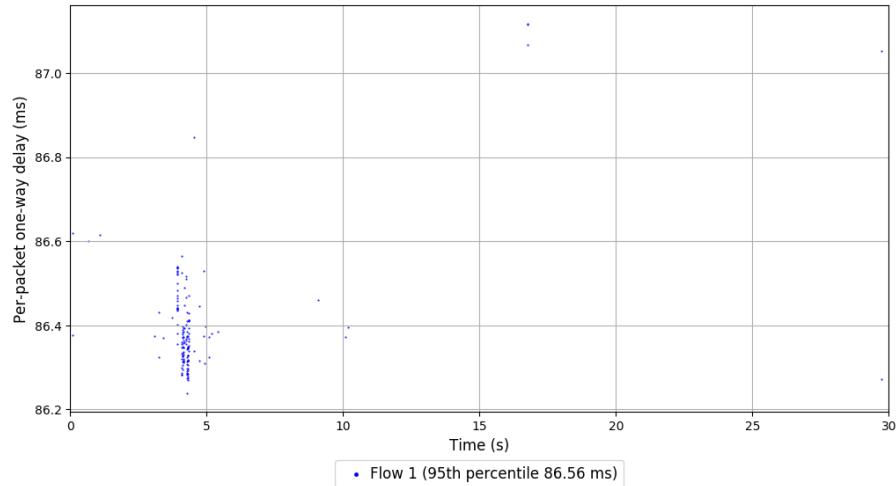
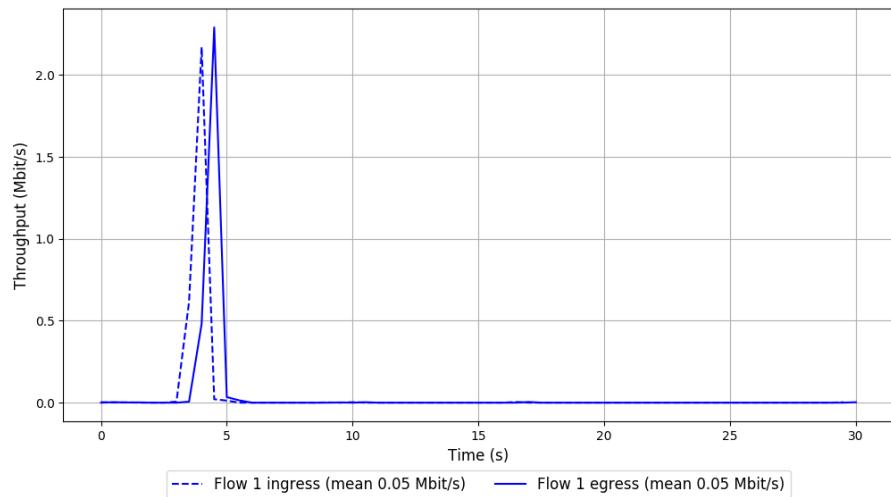


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-17 05:55:02
End at: 2019-01-17 05:55:32
Local clock offset: -0.171 ms
Remote clock offset: 0.267 ms

# Below is generated by plot.py at 2019-01-17 09:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.564 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.564 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

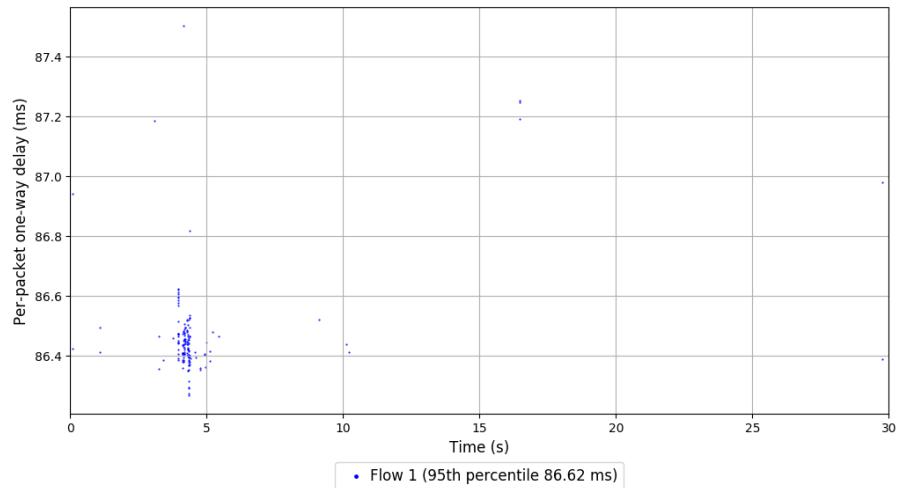
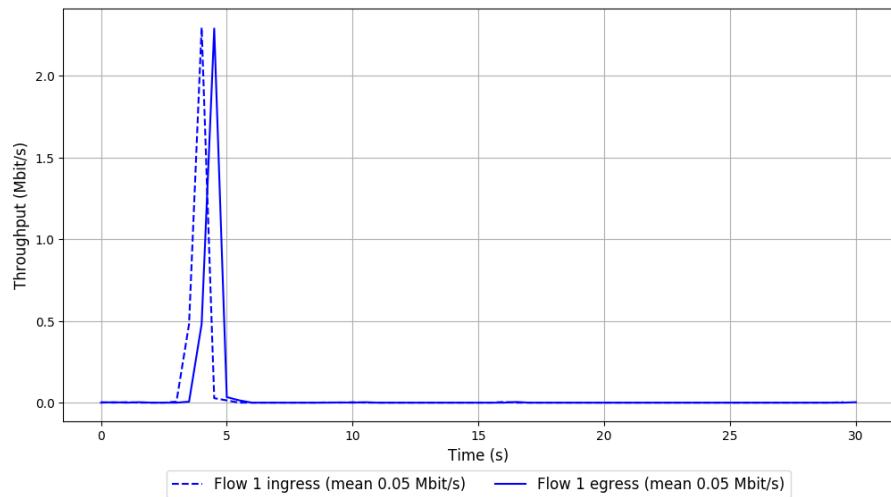


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-17 06:26:17
End at: 2019-01-17 06:26:47
Local clock offset: 0.049 ms
Remote clock offset: 0.18 ms

# Below is generated by plot.py at 2019-01-17 09:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.623 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

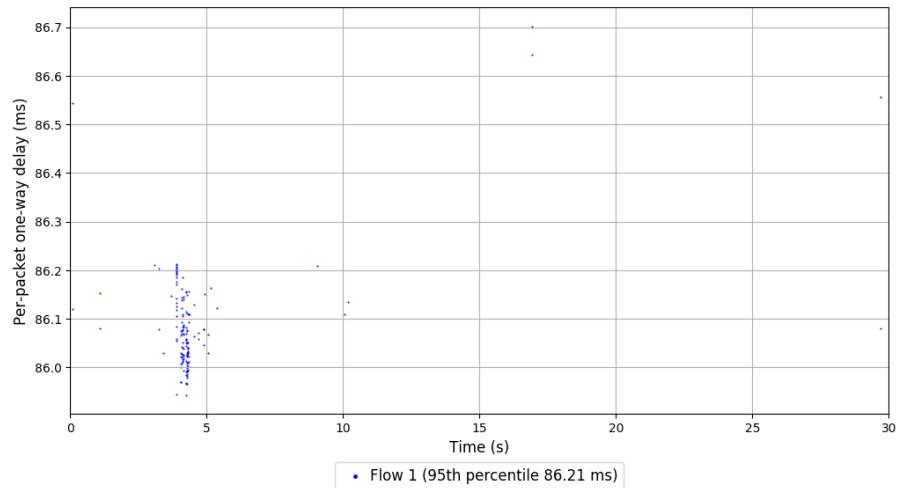
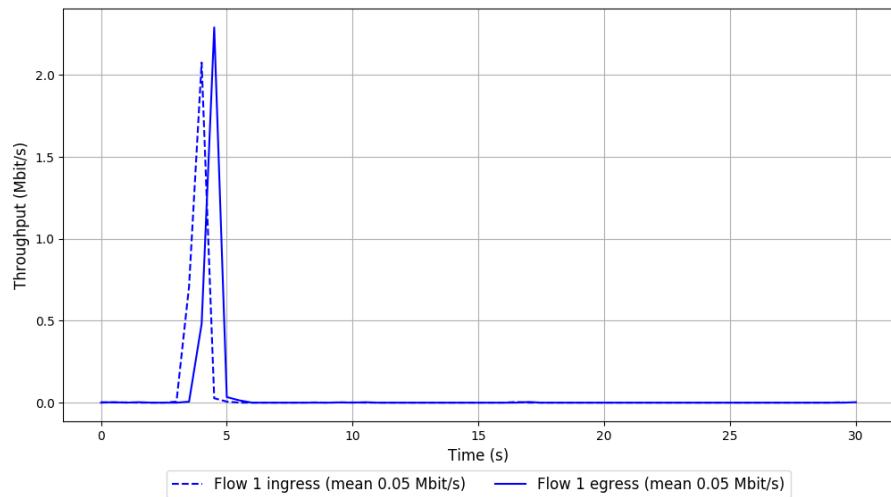


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-17 06:57:57
End at: 2019-01-17 06:58:27
Local clock offset: -0.056 ms
Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2019-01-17 09:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.208 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.208 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-17 07:29:19
End at: 2019-01-17 07:29:49
Local clock offset: 0.305 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-01-17 09:52:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 85.861 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 85.861 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

