

Pantheon Report

Generated at 2019-02-20 07:23:08 (UTC).
Data path: India on `em1` (*remote*) → AWS India 1 on `ens5` (*local*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

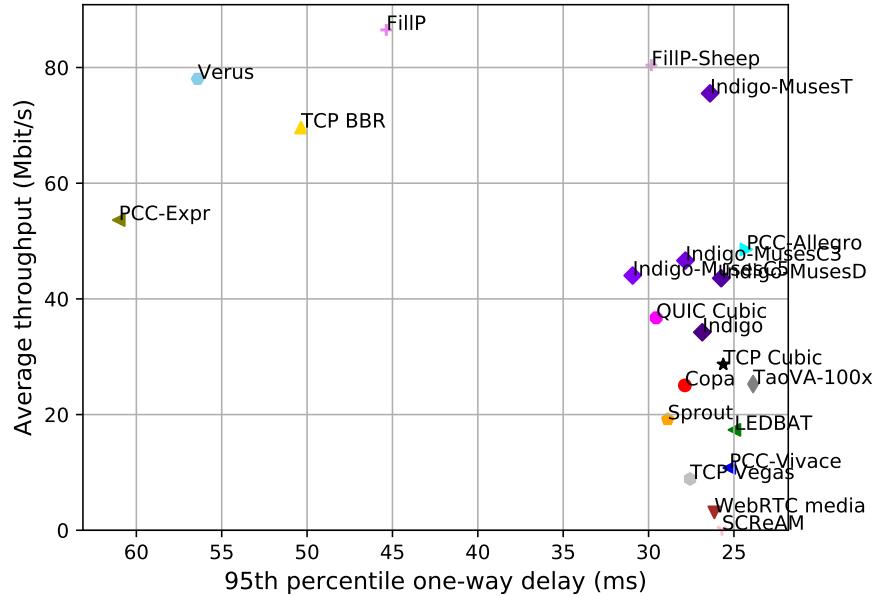
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

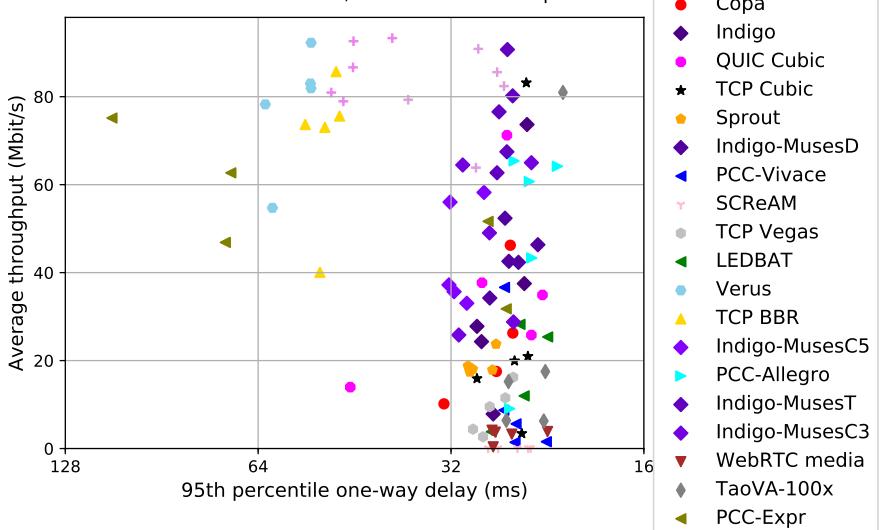
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



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



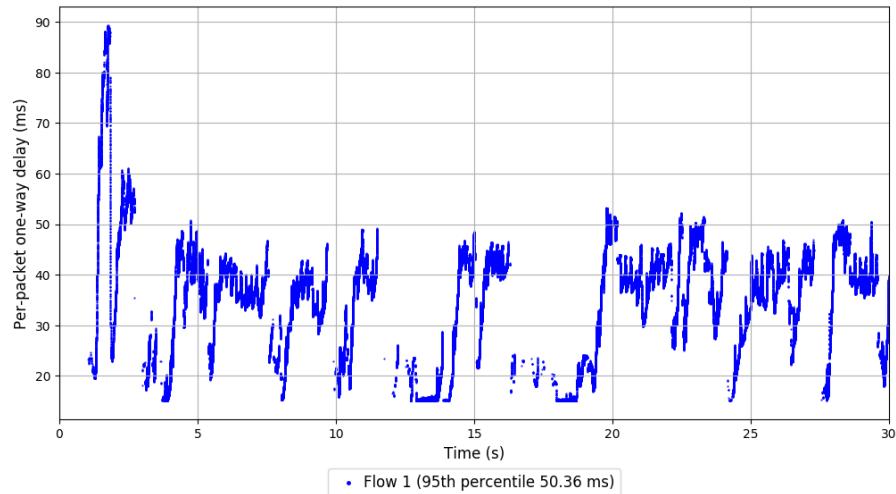
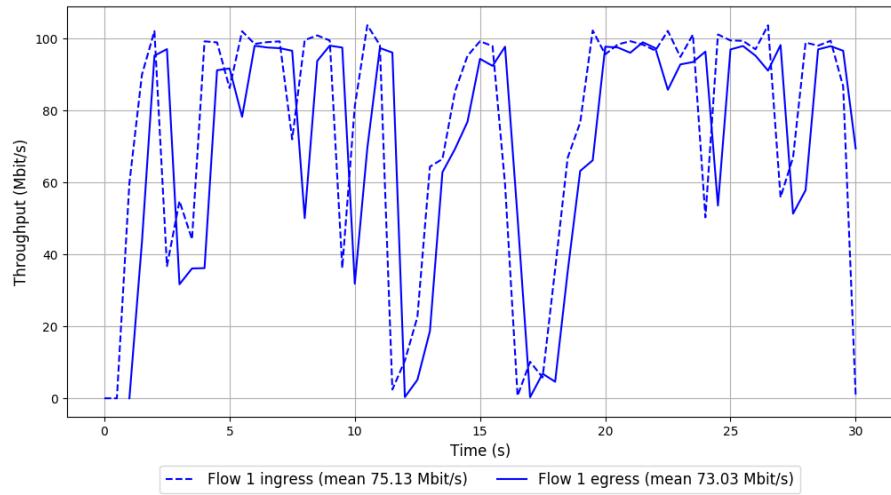
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	69.62	50.36	7.49
Copa	4	25.04	27.87	2.25
TCP Cubic	5	28.68	25.62	2.39
FillP	5	86.50	45.36	6.88
FillP-Sheep	5	80.41	29.83	4.01
Indigo	5	34.23	26.86	4.86
Indigo-MusesC3	5	46.62	27.84	4.15
Indigo-MusesC5	5	44.03	30.93	5.50
Indigo-MusesD	5	43.57	25.75	2.55
Indigo-MusesT	5	75.53	26.40	2.26
LEDBAT	4	17.36	24.97	2.00
PCC-Allegro	5	48.54	24.27	7.12
PCC-Expr	5	53.63	61.03	9.23
QUIC Cubic	5	36.73	29.56	3.63
SCReAM	5	0.09	25.70	4.71
Sprout	5	19.18	28.88	6.65
TaoVA-100x	5	25.28	23.88	5.19
TCP Vegas	5	8.86	27.57	2.59
Verus	5	78.04	56.41	5.81
PCC-Vivace	5	10.79	25.27	6.86
WebRTC media	5	3.09	26.15	10.87

Run 1: Statistics of TCP BBR

```
Start at: 2019-02-20 05:26:36
End at: 2019-02-20 05:27:06
Local clock offset: -0.939 ms
Remote clock offset: -2.88 ms

# Below is generated by plot.py at 2019-02-20 07:16:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.03 Mbit/s
95th percentile per-packet one-way delay: 50.360 ms
Loss rate: 6.21%
-- Flow 1:
Average throughput: 73.03 Mbit/s
95th percentile per-packet one-way delay: 50.360 ms
Loss rate: 6.21%
```

Run 1: Report of TCP BBR — Data Link

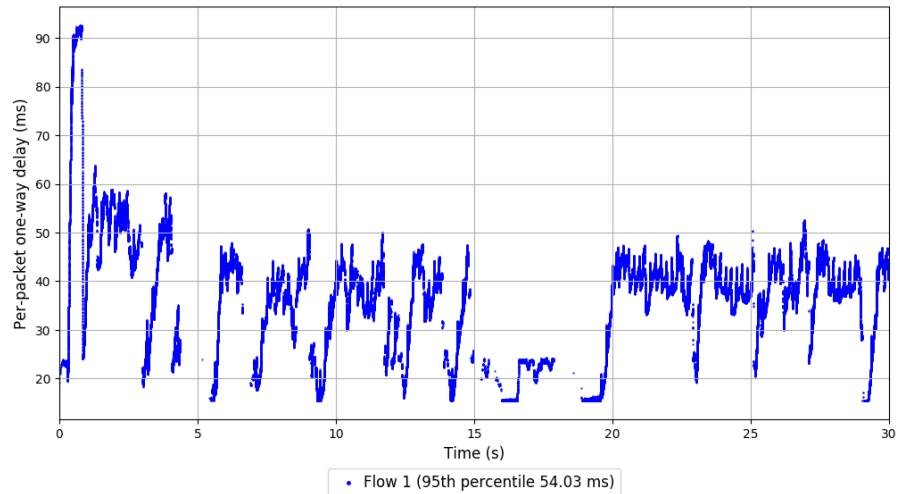
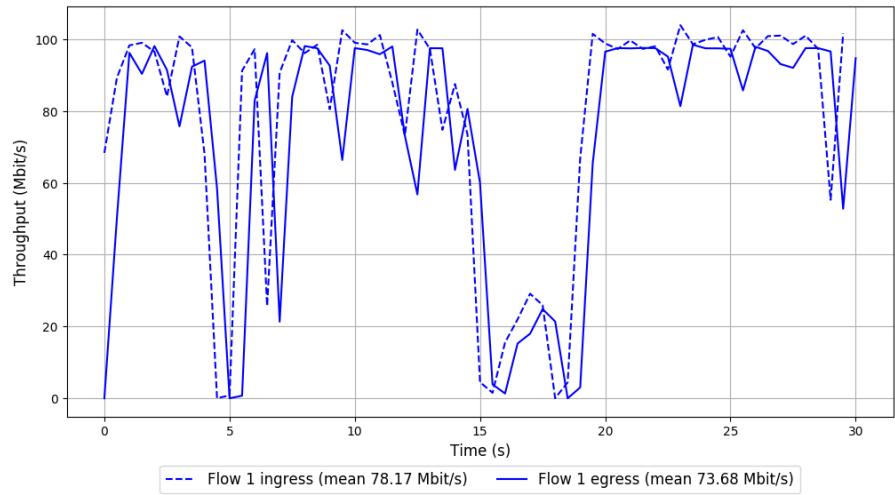


Run 2: Statistics of TCP BBR

```
Start at: 2019-02-20 05:52:13
End at: 2019-02-20 05:52:43
Local clock offset: -2.539 ms
Remote clock offset: -3.575 ms

# Below is generated by plot.py at 2019-02-20 07:16:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.68 Mbit/s
95th percentile per-packet one-way delay: 54.033 ms
Loss rate: 5.83%
-- Flow 1:
Average throughput: 73.68 Mbit/s
95th percentile per-packet one-way delay: 54.033 ms
Loss rate: 5.83%
```

Run 2: Report of TCP BBR — Data Link

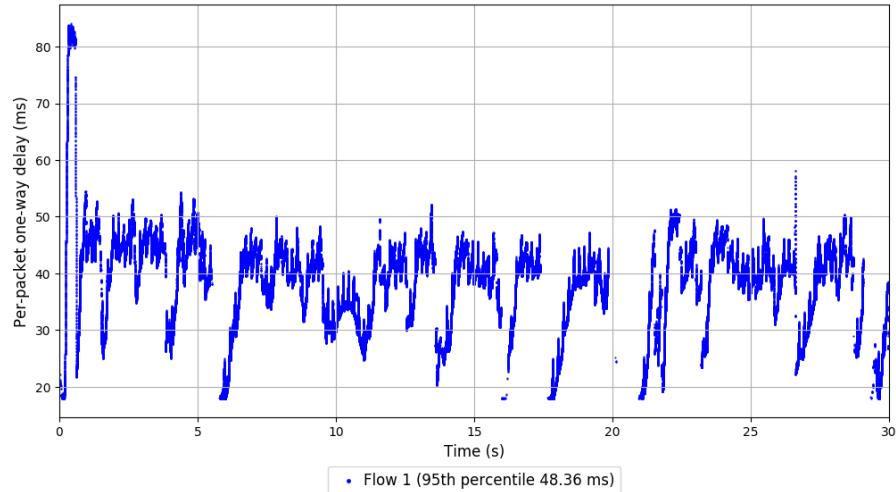
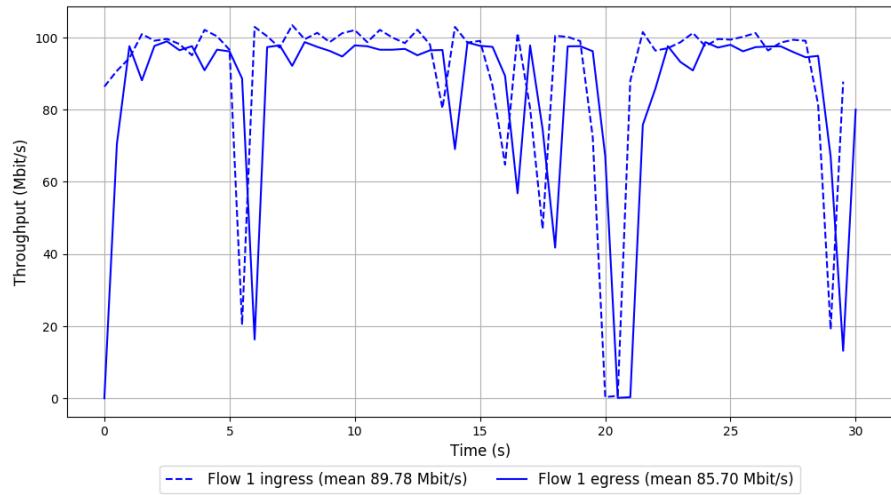


Run 3: Statistics of TCP BBR

```
Start at: 2019-02-20 06:17:34
End at: 2019-02-20 06:18:04
Local clock offset: -0.651 ms
Remote clock offset: -3.298 ms

# Below is generated by plot.py at 2019-02-20 07:16:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.70 Mbit/s
95th percentile per-packet one-way delay: 48.361 ms
Loss rate: 4.64%
-- Flow 1:
Average throughput: 85.70 Mbit/s
95th percentile per-packet one-way delay: 48.361 ms
Loss rate: 4.64%
```

Run 3: Report of TCP BBR — Data Link

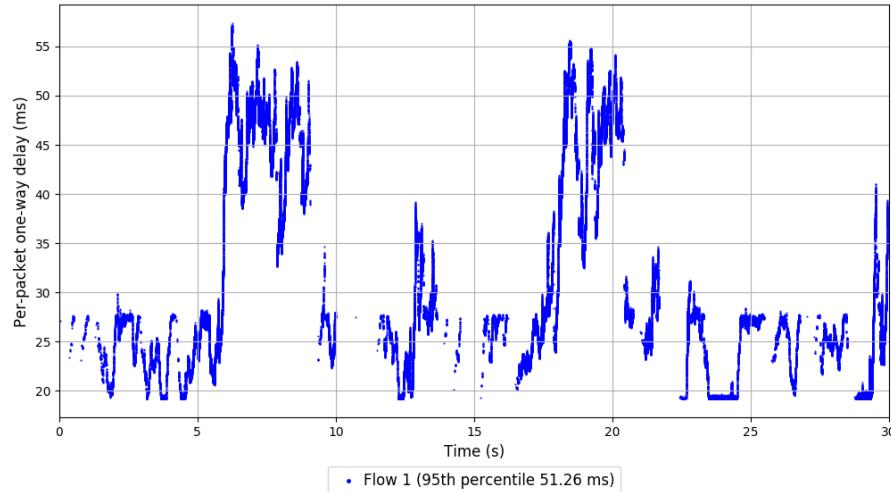
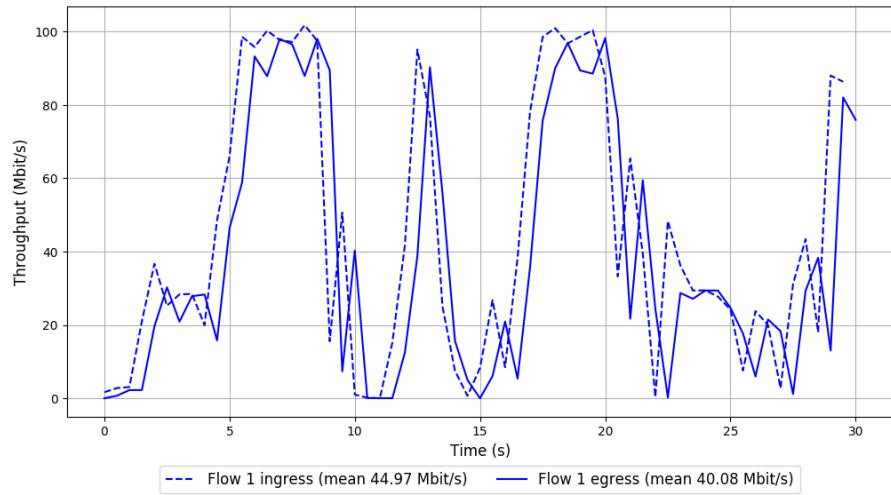


Run 4: Statistics of TCP BBR

```
Start at: 2019-02-20 06:43:08
End at: 2019-02-20 06:43:39
Local clock offset: 0.845 ms
Remote clock offset: -4.108 ms

# Below is generated by plot.py at 2019-02-20 07:16:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.08 Mbit/s
95th percentile per-packet one-way delay: 51.258 ms
Loss rate: 10.98%
-- Flow 1:
Average throughput: 40.08 Mbit/s
95th percentile per-packet one-way delay: 51.258 ms
Loss rate: 10.98%
```

Run 4: Report of TCP BBR — Data Link

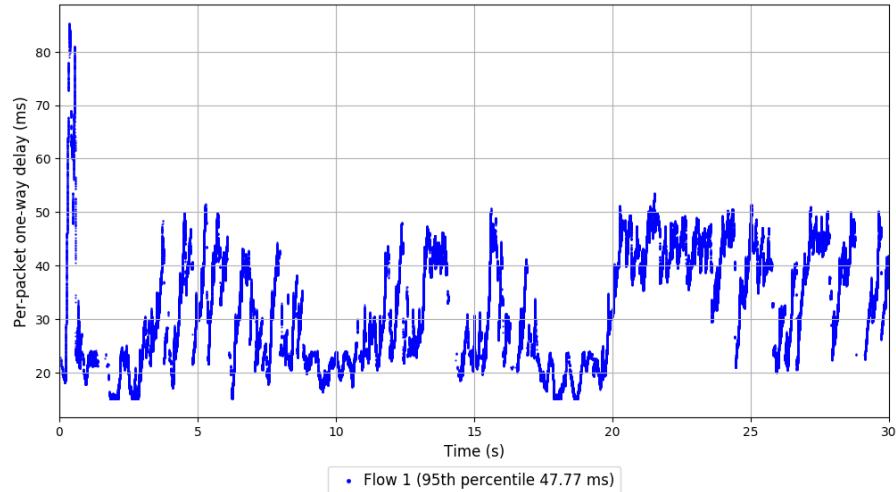
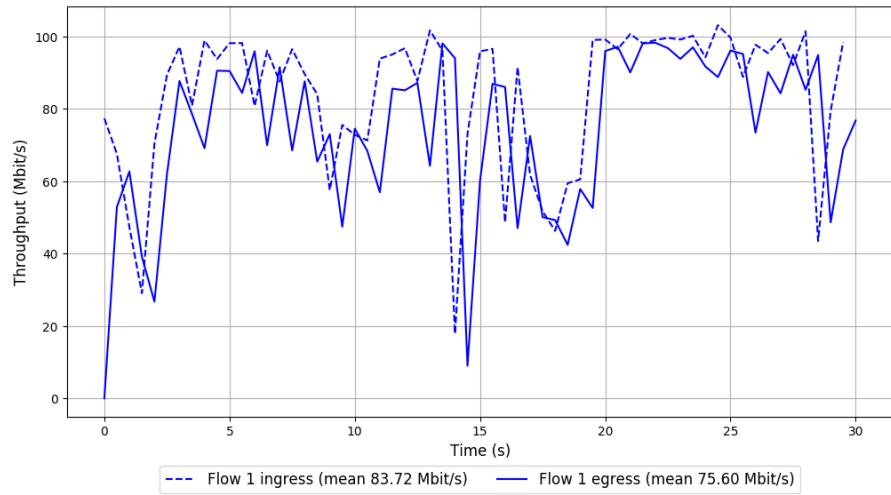


Run 5: Statistics of TCP BBR

```
Start at: 2019-02-20 07:10:54
End at: 2019-02-20 07:11:24
Local clock offset: -0.889 ms
Remote clock offset: -2.133 ms

# Below is generated by plot.py at 2019-02-20 07:16:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.60 Mbit/s
95th percentile per-packet one-way delay: 47.766 ms
Loss rate: 9.80%
-- Flow 1:
Average throughput: 75.60 Mbit/s
95th percentile per-packet one-way delay: 47.766 ms
Loss rate: 9.80%
```

Run 5: Report of TCP BBR — Data Link

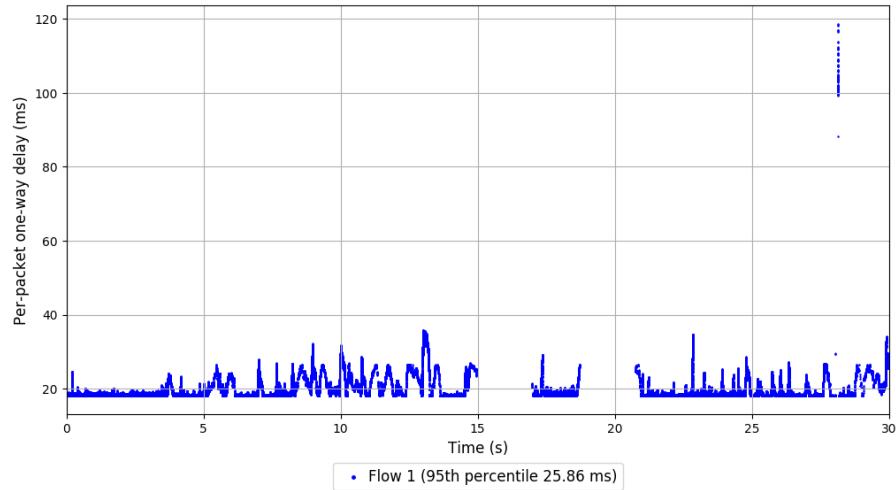
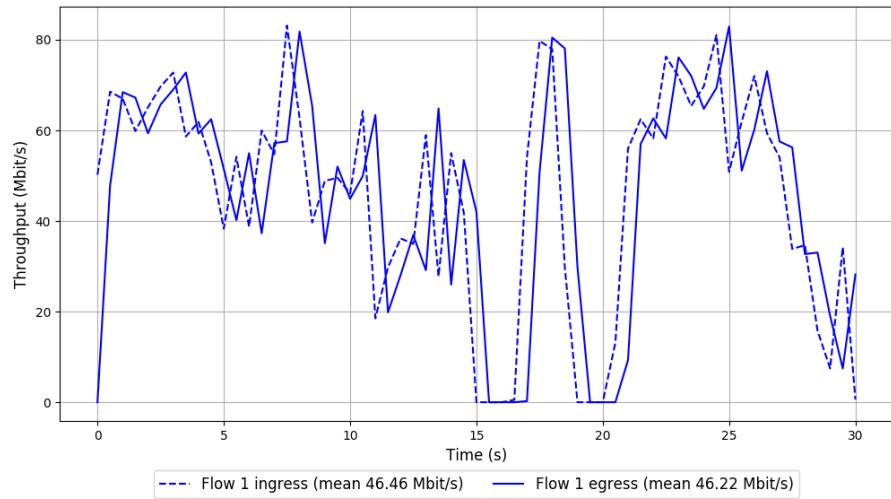


Run 1: Statistics of Copa

```
Start at: 2019-02-20 05:25:14
End at: 2019-02-20 05:25:44
Local clock offset: 1.137 ms
Remote clock offset: -3.859 ms

# Below is generated by plot.py at 2019-02-20 07:16:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.22 Mbit/s
95th percentile per-packet one-way delay: 25.859 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 46.22 Mbit/s
95th percentile per-packet one-way delay: 25.859 ms
Loss rate: 0.60%
```

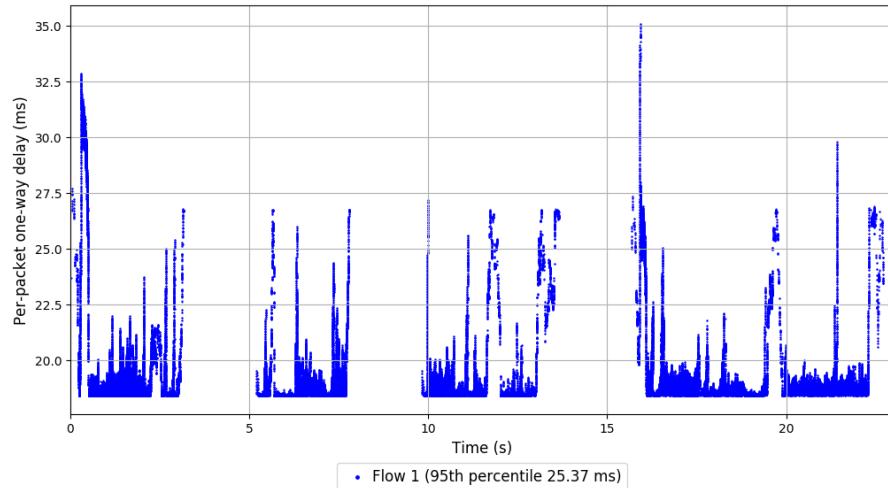
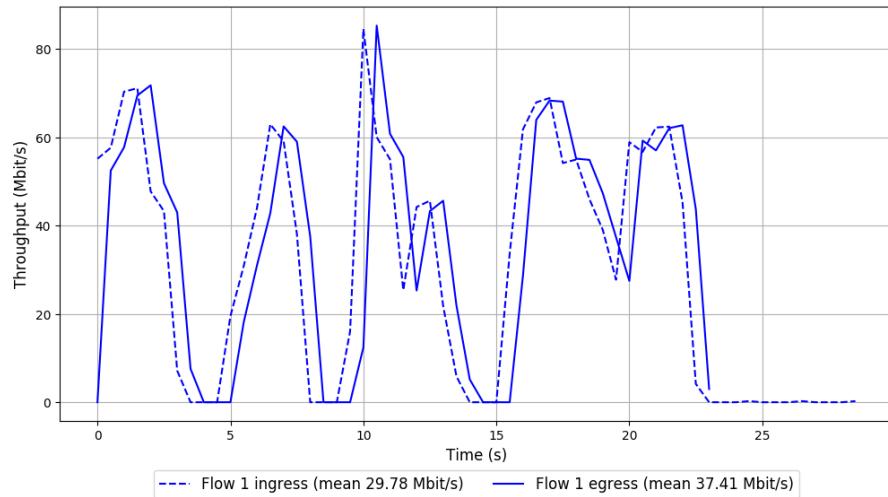
Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-02-20 05:50:56
End at: 2019-02-20 05:51:26
Local clock offset: 0.861 ms
Remote clock offset: -3.208 ms

Run 2: Report of Copa — Data Link

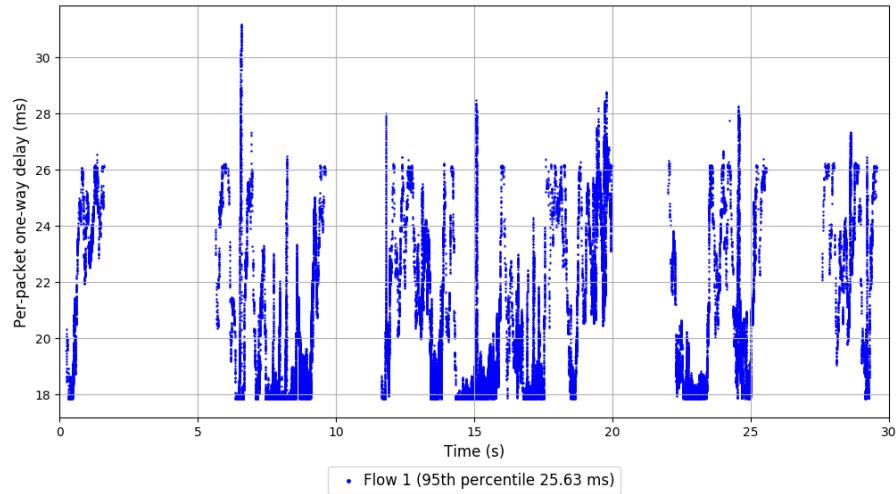
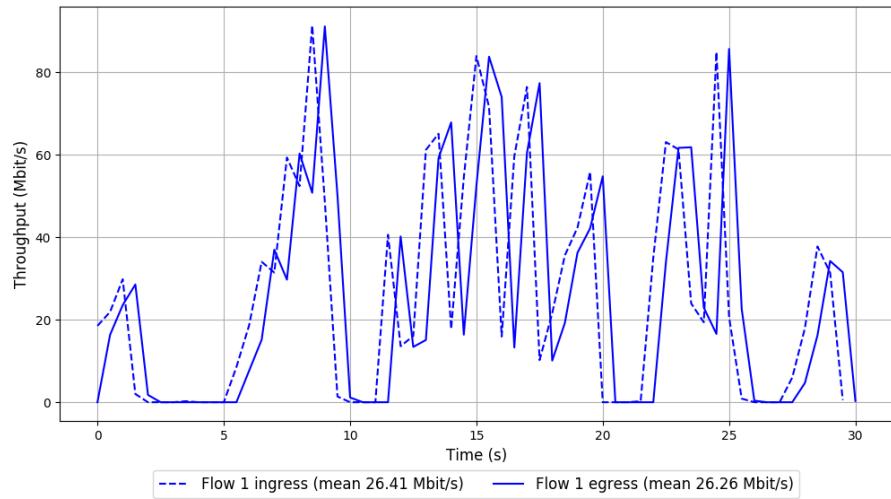


Run 3: Statistics of Copa

```
Start at: 2019-02-20 06:16:22
End at: 2019-02-20 06:16:52
Local clock offset: -0.443 ms
Remote clock offset: -3.072 ms

# Below is generated by plot.py at 2019-02-20 07:16:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.26 Mbit/s
95th percentile per-packet one-way delay: 25.627 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 26.26 Mbit/s
95th percentile per-packet one-way delay: 25.627 ms
Loss rate: 1.35%
```

Run 3: Report of Copa — Data Link

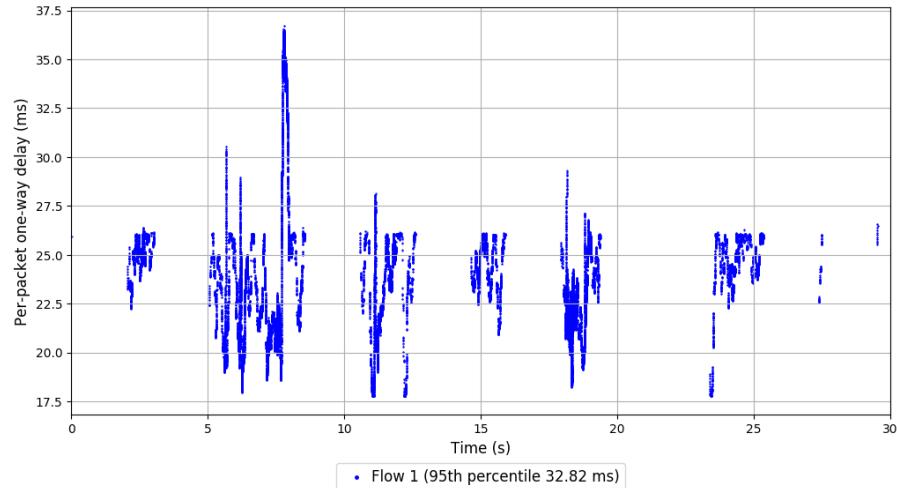
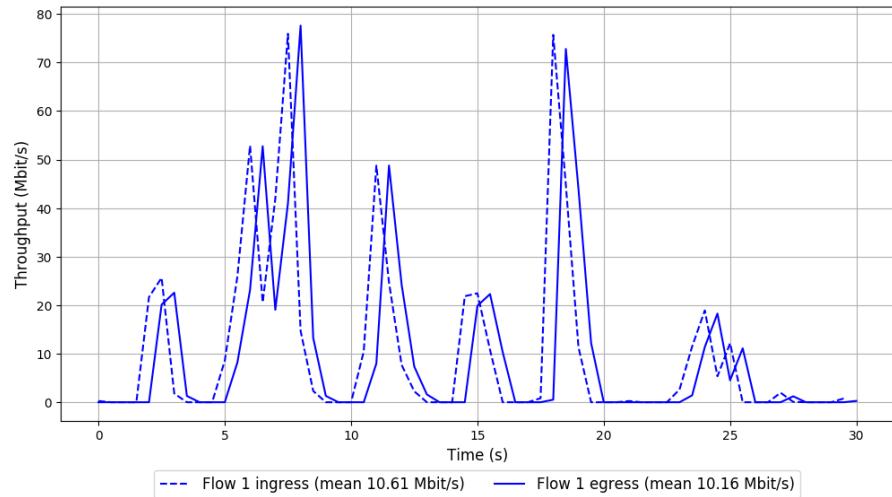


Run 4: Statistics of Copa

```
Start at: 2019-02-20 06:41:52
End at: 2019-02-20 06:42:22
Local clock offset: 0.743 ms
Remote clock offset: -2.752 ms

# Below is generated by plot.py at 2019-02-20 07:16:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.16 Mbit/s
95th percentile per-packet one-way delay: 32.823 ms
Loss rate: 4.30%
-- Flow 1:
Average throughput: 10.16 Mbit/s
95th percentile per-packet one-way delay: 32.823 ms
Loss rate: 4.30%
```

Run 4: Report of Copa — Data Link

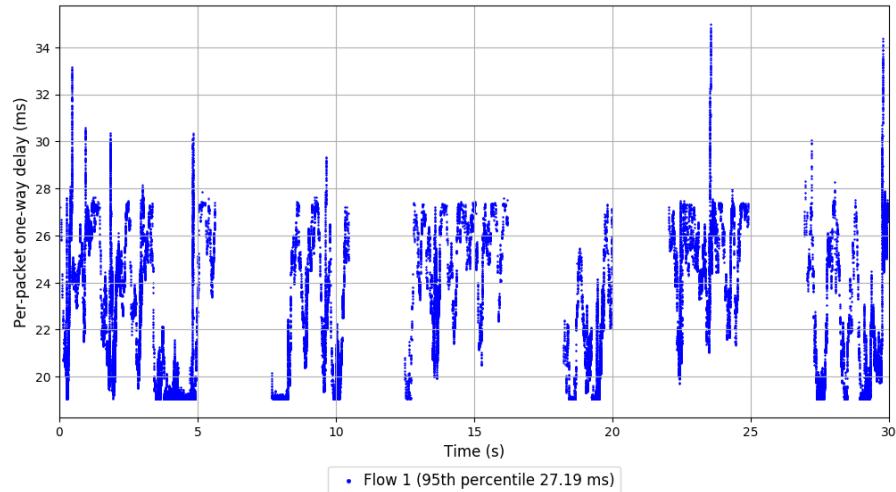
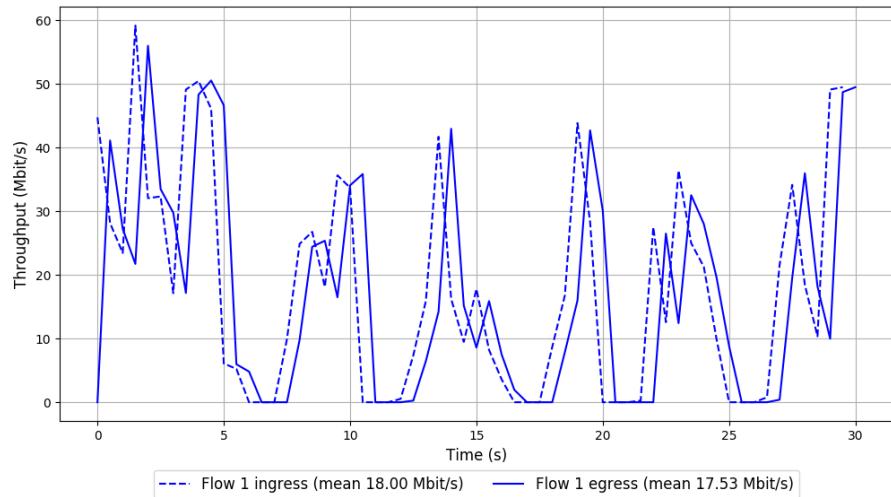


Run 5: Statistics of Copa

```
Start at: 2019-02-20 07:09:37
End at: 2019-02-20 07:10:07
Local clock offset: 3.093 ms
Remote clock offset: -2.056 ms

# Below is generated by plot.py at 2019-02-20 07:16:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.53 Mbit/s
95th percentile per-packet one-way delay: 27.186 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 17.53 Mbit/s
95th percentile per-packet one-way delay: 27.186 ms
Loss rate: 2.74%
```

Run 5: Report of Copa — Data Link

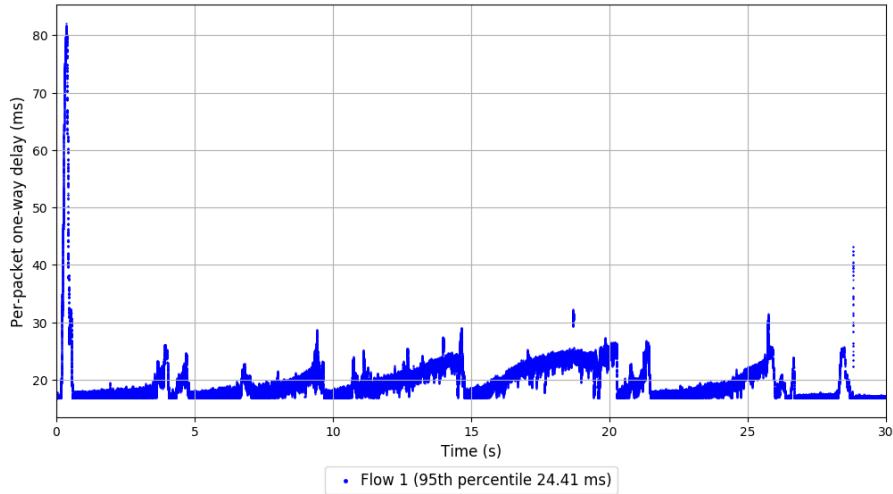
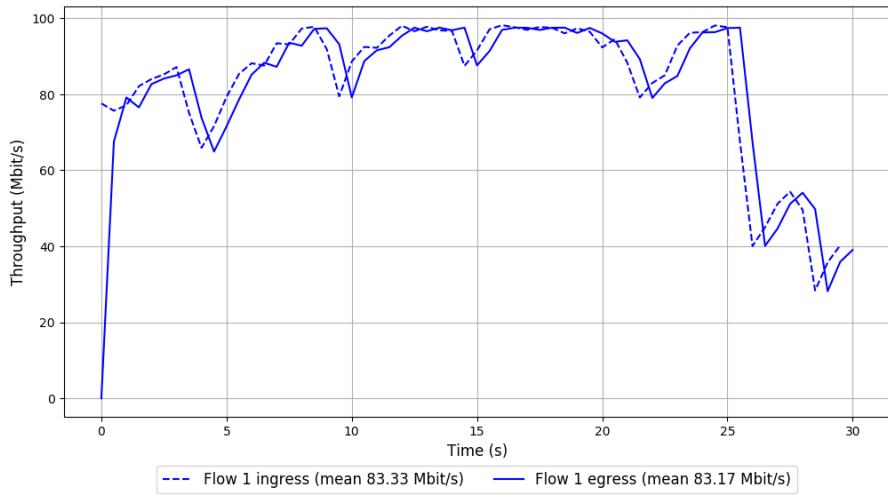


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-02-20 05:10:43
End at: 2019-02-20 05:11:13
Local clock offset: -1.048 ms
Remote clock offset: -5.205 ms

# Below is generated by plot.py at 2019-02-20 07:16:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.17 Mbit/s
95th percentile per-packet one-way delay: 24.414 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 83.17 Mbit/s
95th percentile per-packet one-way delay: 24.414 ms
Loss rate: 0.28%
```

Run 1: Report of TCP Cubic — Data Link

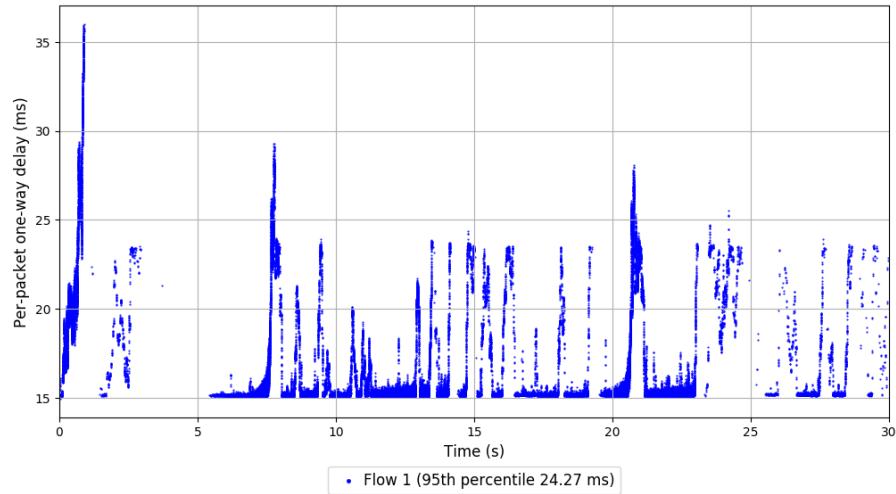
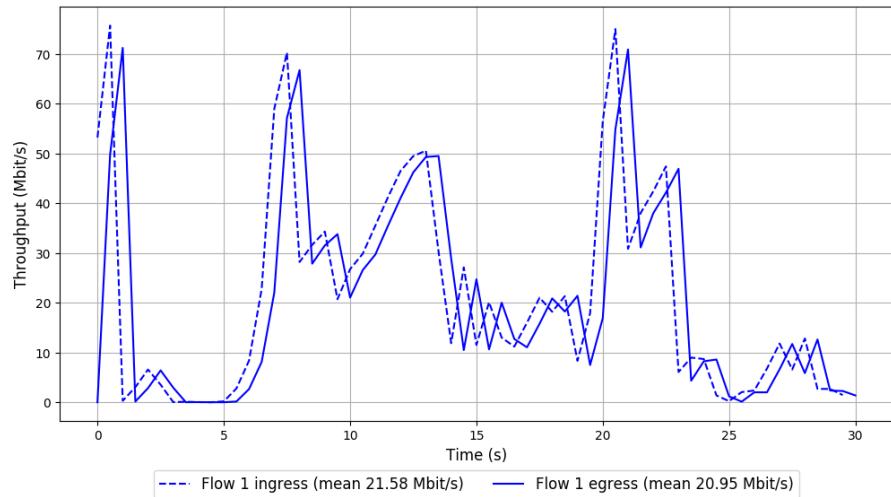


Run 2: Statistics of TCP Cubic

```
Start at: 2019-02-20 05:36:15
End at: 2019-02-20 05:36:45
Local clock offset: -1.737 ms
Remote clock offset: -3.181 ms

# Below is generated by plot.py at 2019-02-20 07:16:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.95 Mbit/s
95th percentile per-packet one-way delay: 24.275 ms
Loss rate: 2.98%
-- Flow 1:
Average throughput: 20.95 Mbit/s
95th percentile per-packet one-way delay: 24.275 ms
Loss rate: 2.98%
```

Run 2: Report of TCP Cubic — Data Link

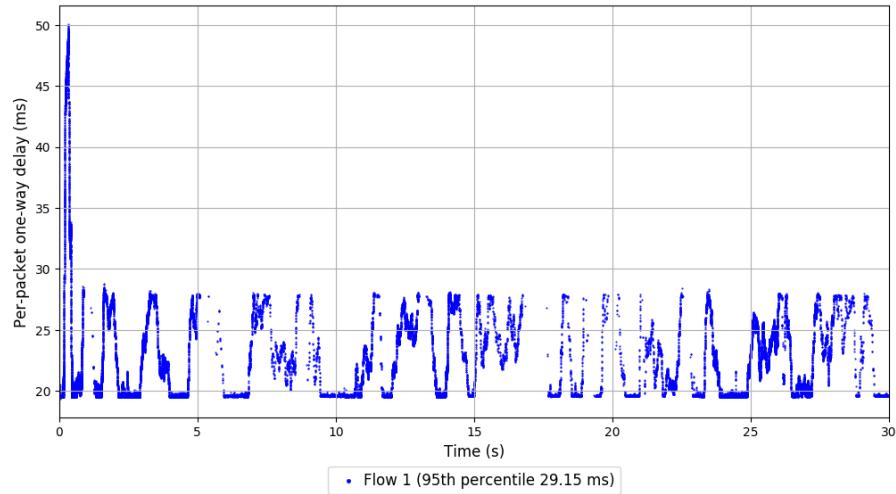
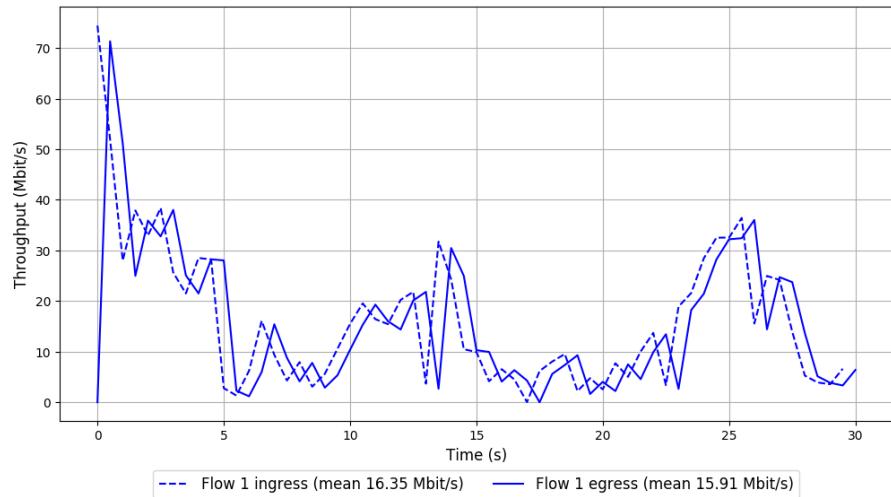


Run 3: Statistics of TCP Cubic

```
Start at: 2019-02-20 06:01:51
End at: 2019-02-20 06:02:21
Local clock offset: 0.962 ms
Remote clock offset: -3.805 ms

# Below is generated by plot.py at 2019-02-20 07:16:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.91 Mbit/s
95th percentile per-packet one-way delay: 29.150 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 15.91 Mbit/s
95th percentile per-packet one-way delay: 29.150 ms
Loss rate: 2.79%
```

Run 3: Report of TCP Cubic — Data Link

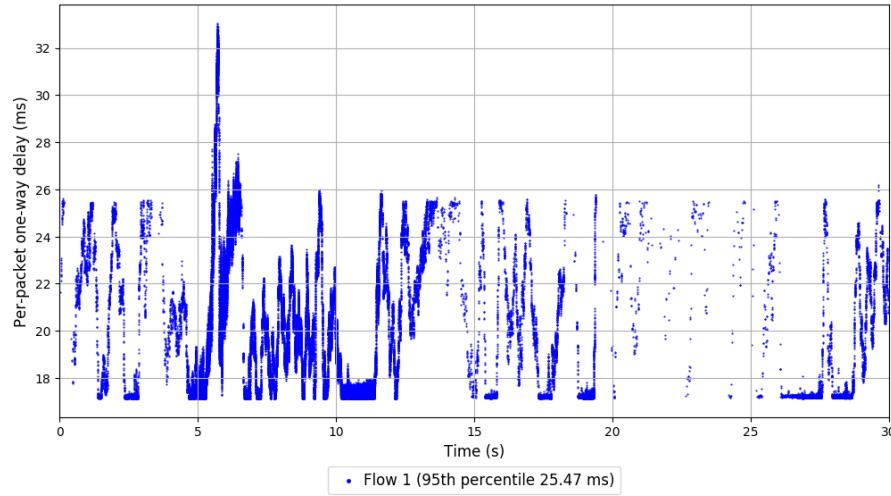
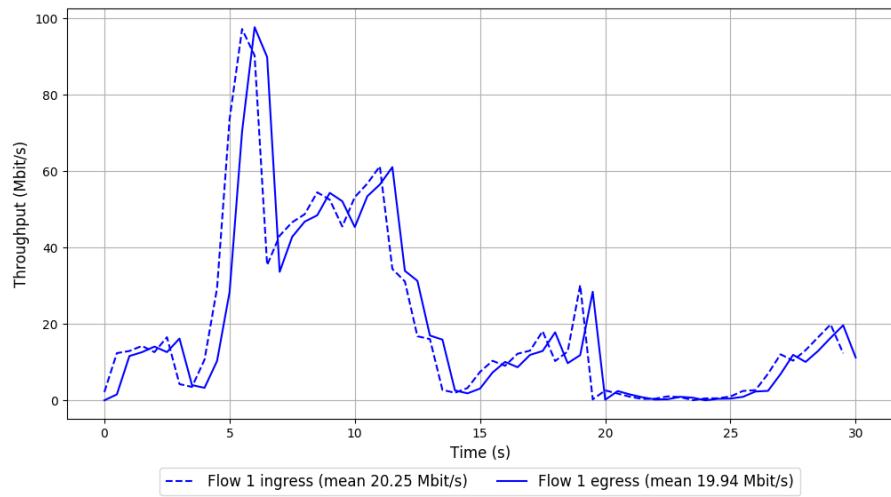


Run 4: Statistics of TCP Cubic

```
Start at: 2019-02-20 06:27:10
End at: 2019-02-20 06:27:40
Local clock offset: -1.312 ms
Remote clock offset: -2.834 ms

# Below is generated by plot.py at 2019-02-20 07:16:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.94 Mbit/s
95th percentile per-packet one-way delay: 25.468 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 19.94 Mbit/s
95th percentile per-packet one-way delay: 25.468 ms
Loss rate: 1.63%
```

Run 4: Report of TCP Cubic — Data Link

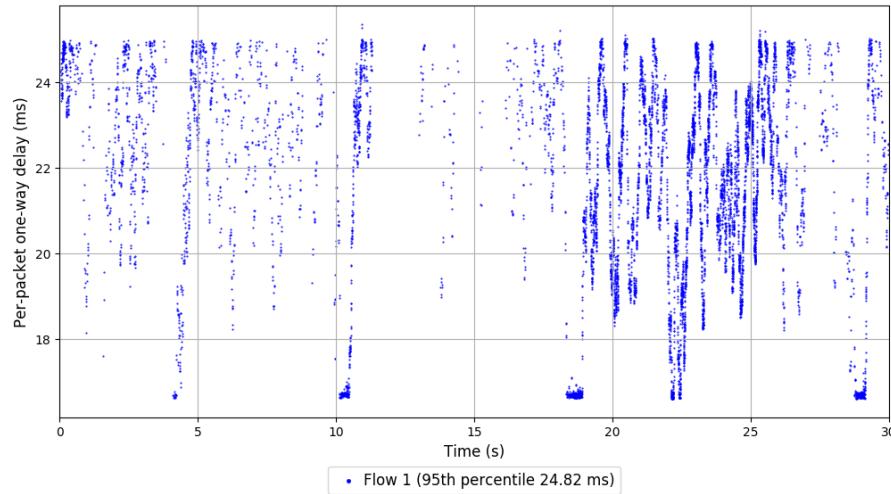
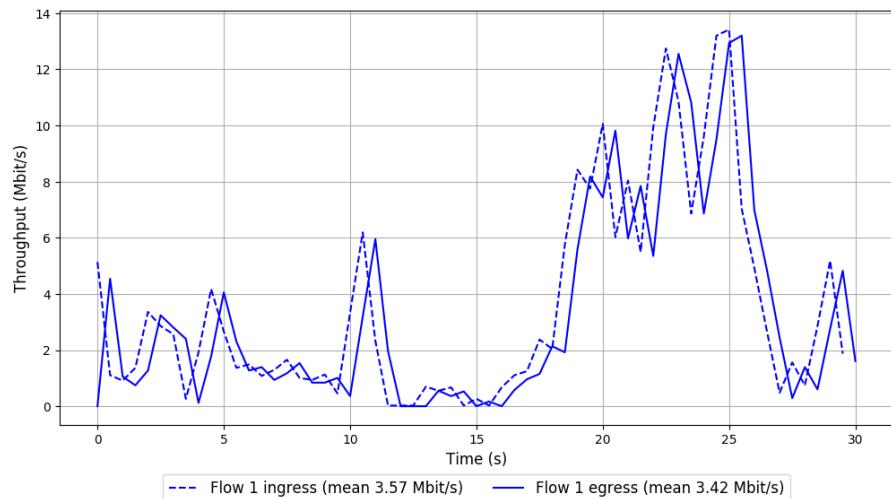


Run 5: Statistics of TCP Cubic

```
Start at: 2019-02-20 06:52:55
End at: 2019-02-20 06:53:25
Local clock offset: -0.928 ms
Remote clock offset: -3.525 ms

# Below is generated by plot.py at 2019-02-20 07:16:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 24.818 ms
Loss rate: 4.28%
-- Flow 1:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 24.818 ms
Loss rate: 4.28%
```

Run 5: Report of TCP Cubic — Data Link

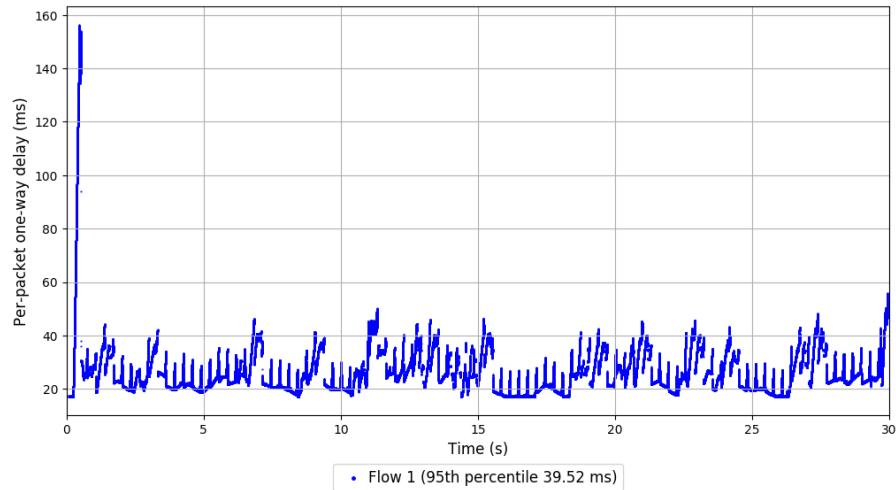
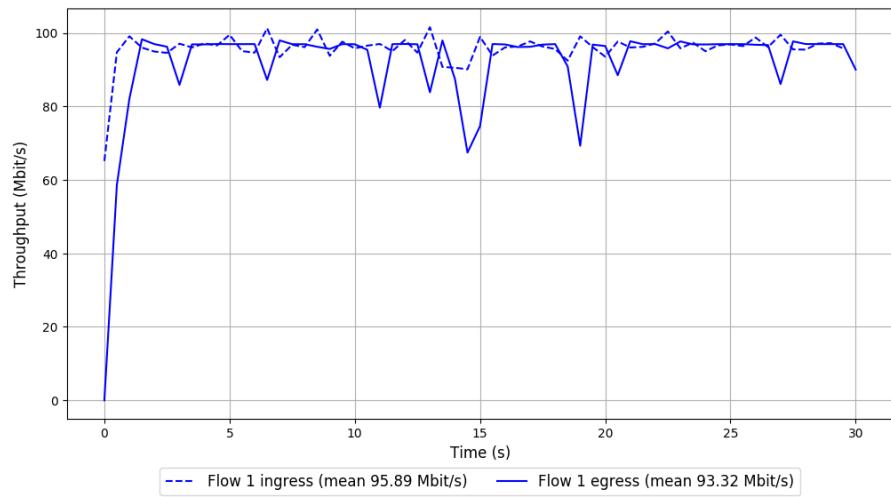


```
Run 1: Statistics of FillP
```

```
Start at: 2019-02-20 05:14:17
End at: 2019-02-20 05:14:47
Local clock offset: -0.042 ms
Remote clock offset: -4.485 ms

# Below is generated by plot.py at 2019-02-20 07:17:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.32 Mbit/s
95th percentile per-packet one-way delay: 39.525 ms
Loss rate: 2.77%
-- Flow 1:
Average throughput: 93.32 Mbit/s
95th percentile per-packet one-way delay: 39.525 ms
Loss rate: 2.77%
```

Run 1: Report of FillP — Data Link

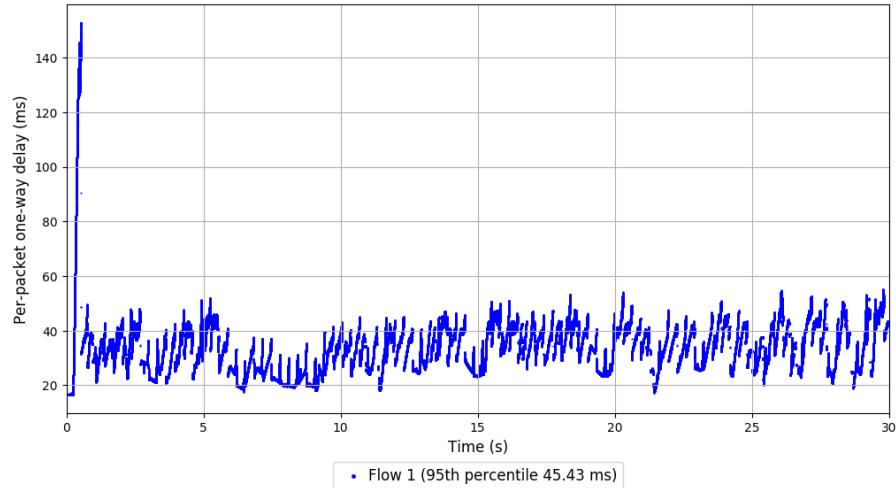
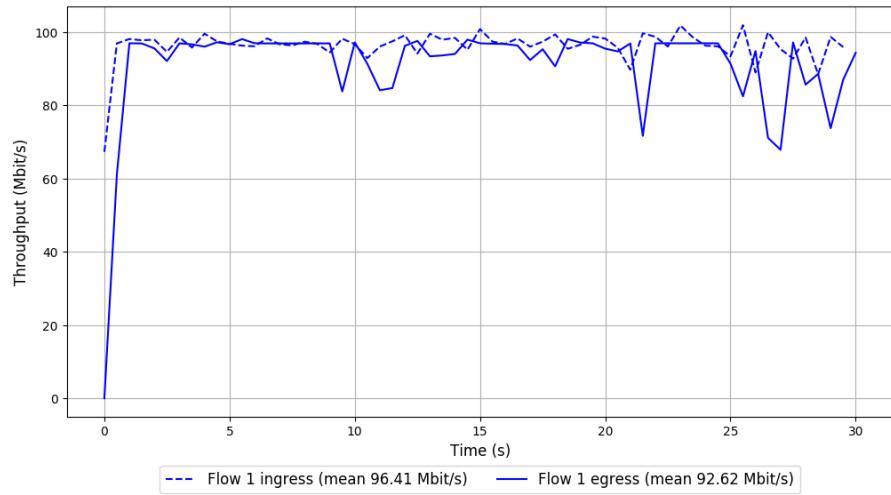


```
Run 2: Statistics of FillP
```

```
Start at: 2019-02-20 05:39:42
End at: 2019-02-20 05:40:12
Local clock offset: -1.256 ms
Remote clock offset: -4.172 ms

# Below is generated by plot.py at 2019-02-20 07:17:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.62 Mbit/s
95th percentile per-packet one-way delay: 45.433 ms
Loss rate: 4.01%
-- Flow 1:
Average throughput: 92.62 Mbit/s
95th percentile per-packet one-way delay: 45.433 ms
Loss rate: 4.01%
```

Run 2: Report of FillP — Data Link

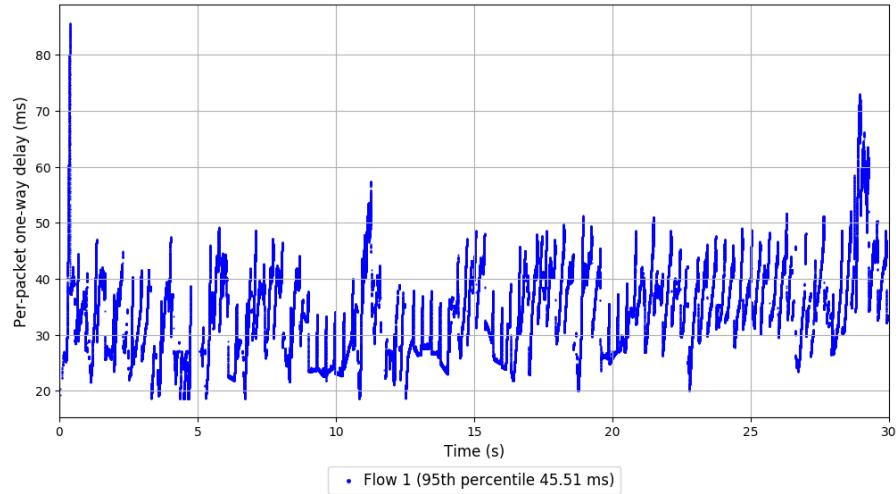
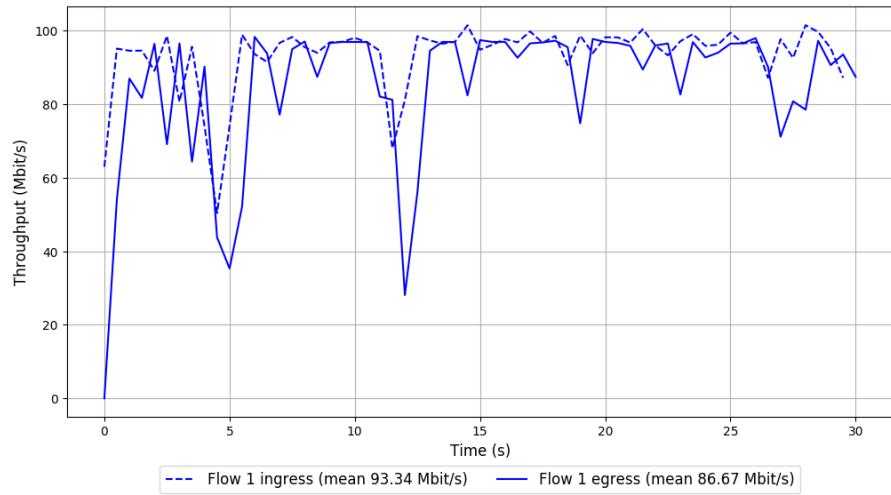


Run 3: Statistics of FillP

```
Start at: 2019-02-20 06:05:25
End at: 2019-02-20 06:05:55
Local clock offset: -0.053 ms
Remote clock offset: -3.999 ms

# Below is generated by plot.py at 2019-02-20 07:17:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.67 Mbit/s
95th percentile per-packet one-way delay: 45.513 ms
Loss rate: 7.23%
-- Flow 1:
Average throughput: 86.67 Mbit/s
95th percentile per-packet one-way delay: 45.513 ms
Loss rate: 7.23%
```

Run 3: Report of FillP — Data Link

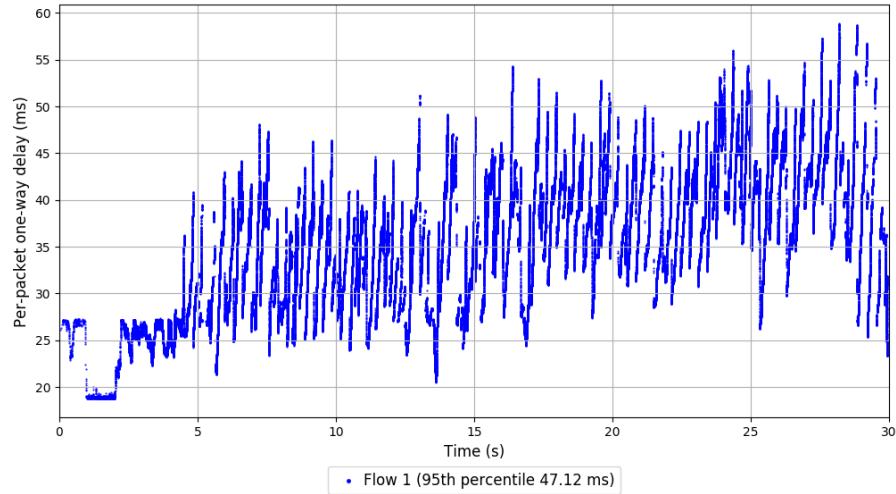
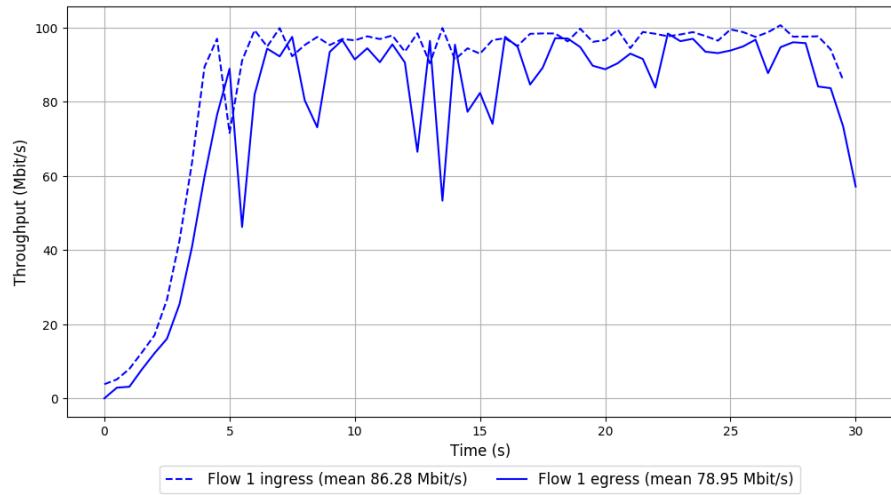


```
Run 4: Statistics of FillP
```

```
Start at: 2019-02-20 06:30:38
End at: 2019-02-20 06:31:08
Local clock offset: -0.622 ms
Remote clock offset: -4.077 ms

# Below is generated by plot.py at 2019-02-20 07:17:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.95 Mbit/s
95th percentile per-packet one-way delay: 47.121 ms
Loss rate: 8.59%
-- Flow 1:
Average throughput: 78.95 Mbit/s
95th percentile per-packet one-way delay: 47.121 ms
Loss rate: 8.59%
```

Run 4: Report of FillP — Data Link

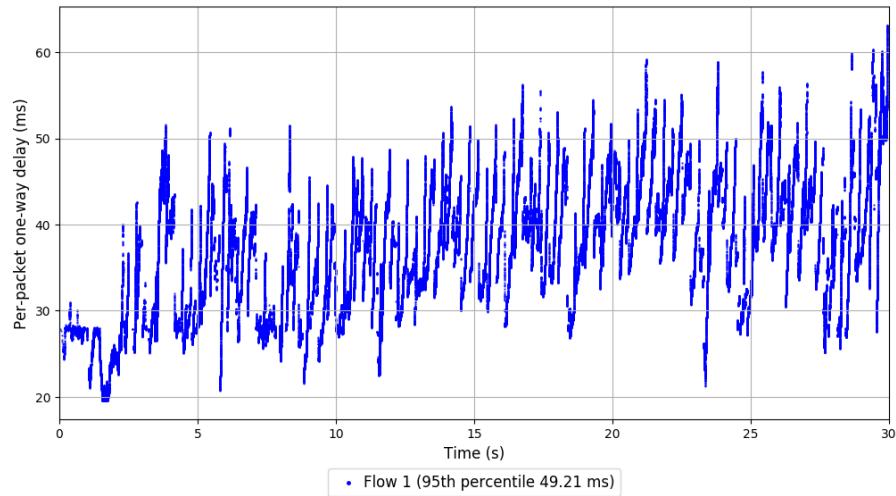
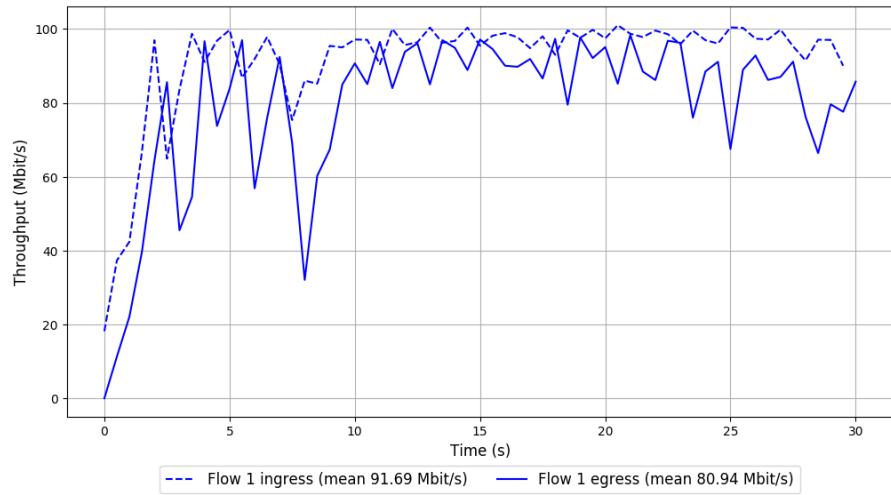


Run 5: Statistics of FillP

```
Start at: 2019-02-20 06:56:25
End at: 2019-02-20 06:56:55
Local clock offset: -4.635 ms
Remote clock offset: -10.43 ms

# Below is generated by plot.py at 2019-02-20 07:17:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.94 Mbit/s
95th percentile per-packet one-way delay: 49.210 ms
Loss rate: 11.82%
-- Flow 1:
Average throughput: 80.94 Mbit/s
95th percentile per-packet one-way delay: 49.210 ms
Loss rate: 11.82%
```

Run 5: Report of FillP — Data Link

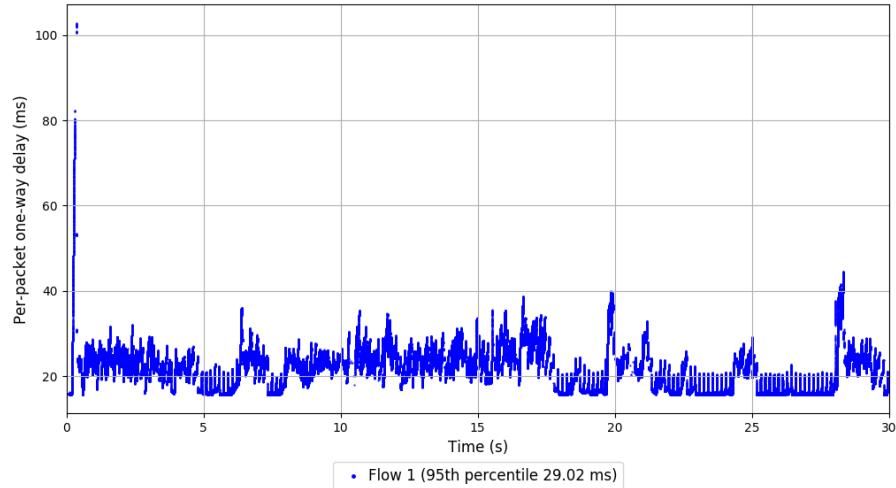
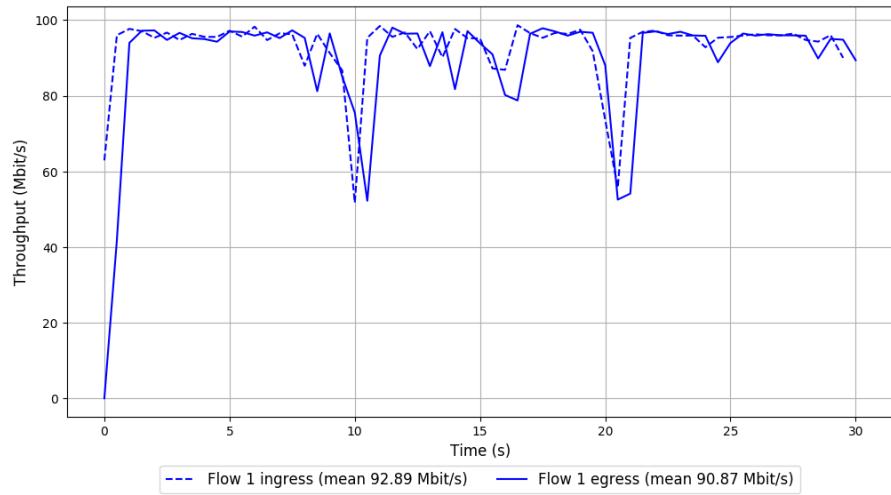


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-02-20 05:08:15
End at: 2019-02-20 05:08:45
Local clock offset: -1.304 ms
Remote clock offset: -4.388 ms

# Below is generated by plot.py at 2019-02-20 07:17:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.87 Mbit/s
95th percentile per-packet one-way delay: 29.016 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 90.87 Mbit/s
95th percentile per-packet one-way delay: 29.016 ms
Loss rate: 2.24%
```

Run 1: Report of FillP-Sheep — Data Link

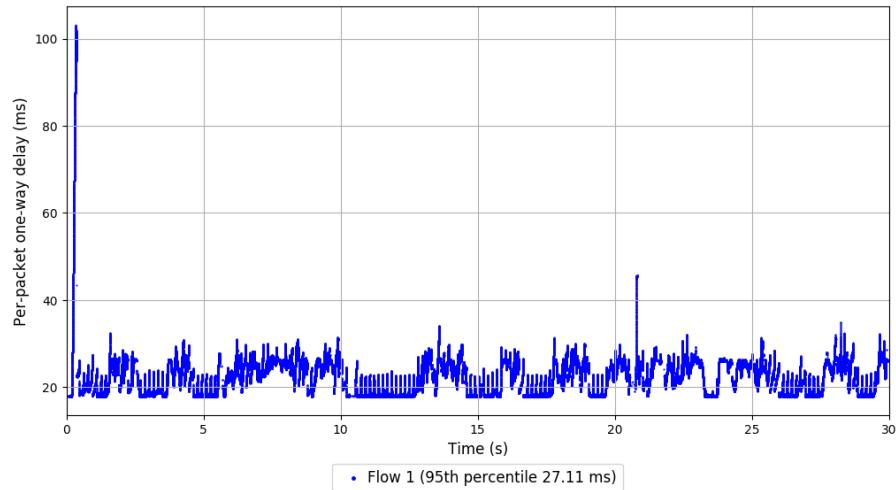
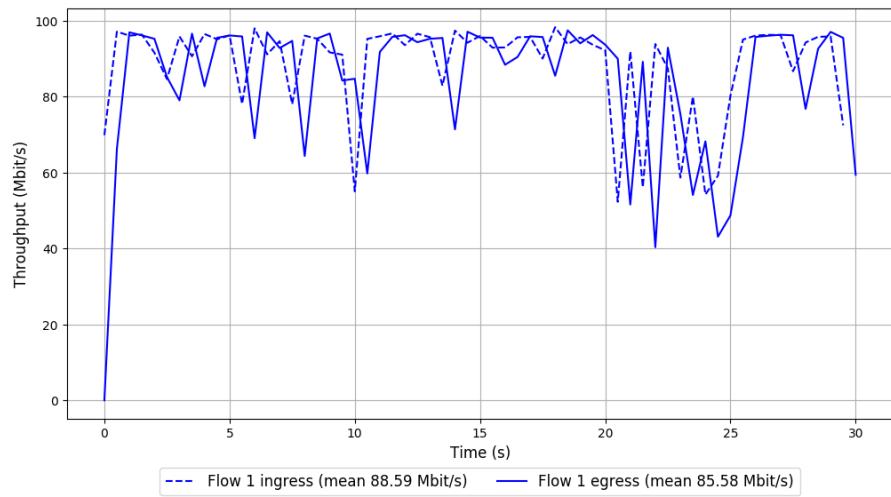


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-02-20 05:33:46
End at: 2019-02-20 05:34:16
Local clock offset: 0.007 ms
Remote clock offset: -4.407 ms

# Below is generated by plot.py at 2019-02-20 07:17:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.58 Mbit/s
95th percentile per-packet one-way delay: 27.111 ms
Loss rate: 3.54%
-- Flow 1:
Average throughput: 85.58 Mbit/s
95th percentile per-packet one-way delay: 27.111 ms
Loss rate: 3.54%
```

Run 2: Report of FillP-Sheep — Data Link

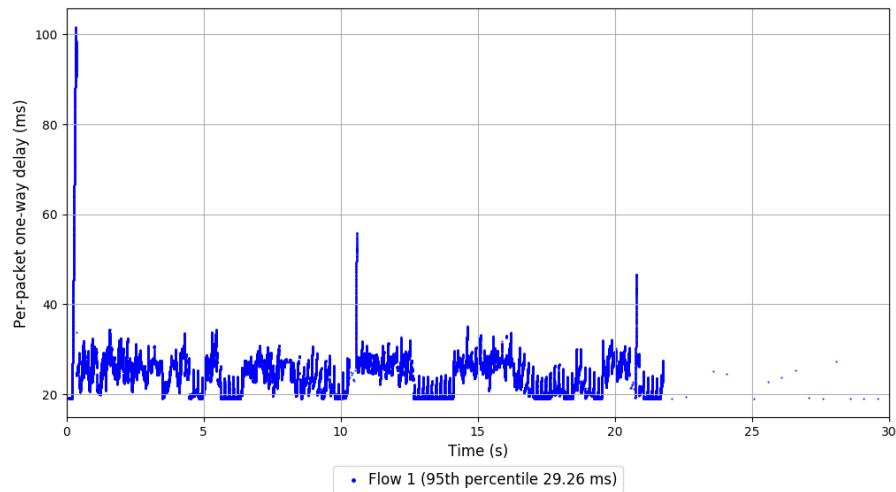
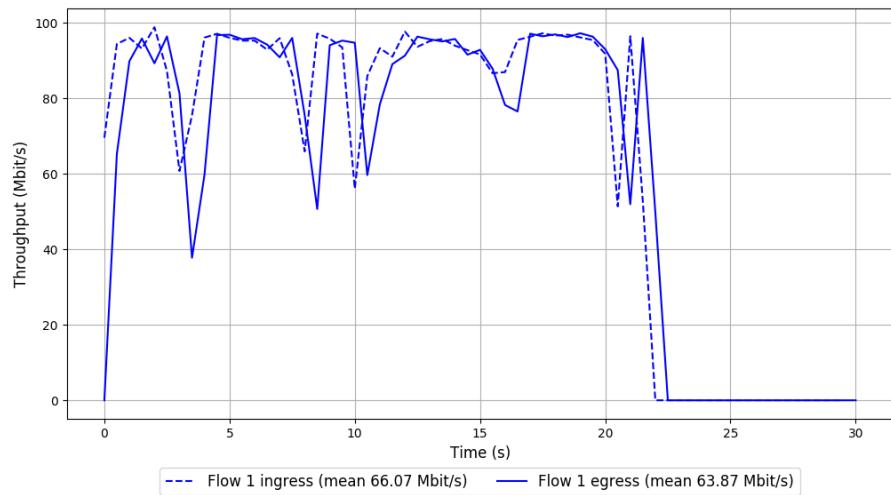


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-02-20 05:59:24
End at: 2019-02-20 05:59:54
Local clock offset: 0.501 ms
Remote clock offset: -3.915 ms

# Below is generated by plot.py at 2019-02-20 07:17:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.87 Mbit/s
95th percentile per-packet one-way delay: 29.261 ms
Loss rate: 3.34%
-- Flow 1:
Average throughput: 63.87 Mbit/s
95th percentile per-packet one-way delay: 29.261 ms
Loss rate: 3.34%
```

Run 3: Report of FillP-Sheep — Data Link

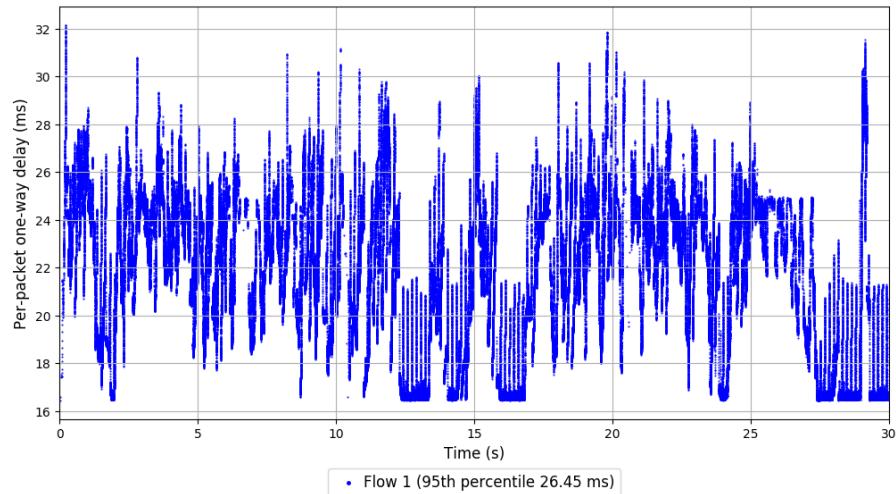
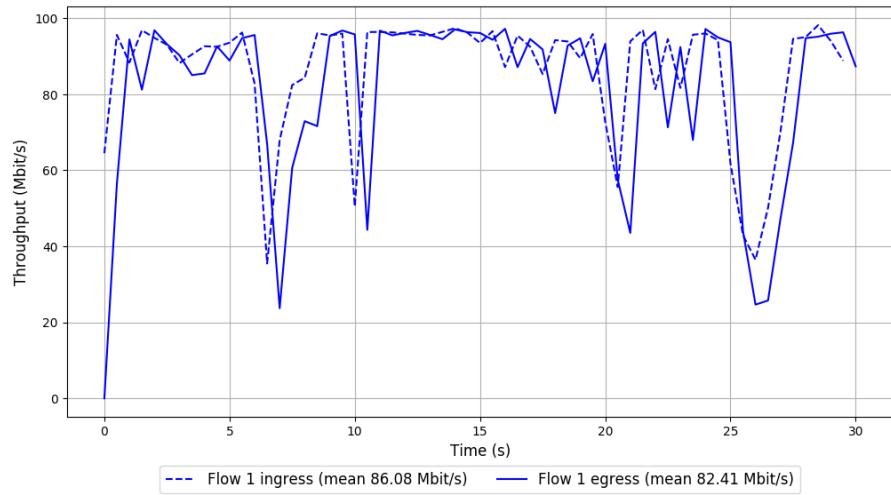


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-02-20 06:24:47
End at: 2019-02-20 06:25:17
Local clock offset: -2.995 ms
Remote clock offset: -4.07 ms

# Below is generated by plot.py at 2019-02-20 07:18:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.41 Mbit/s
95th percentile per-packet one-way delay: 26.453 ms
Loss rate: 4.34%
-- Flow 1:
Average throughput: 82.41 Mbit/s
95th percentile per-packet one-way delay: 26.453 ms
Loss rate: 4.34%
```

Run 4: Report of FillP-Sheep — Data Link

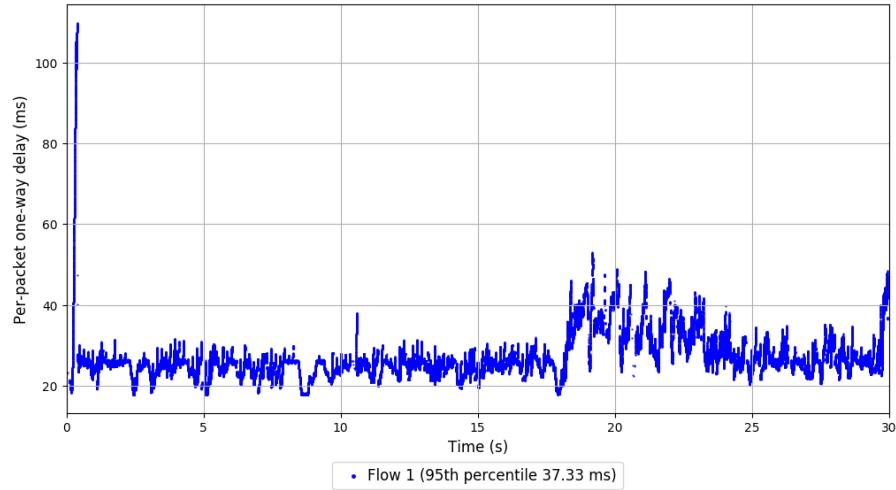
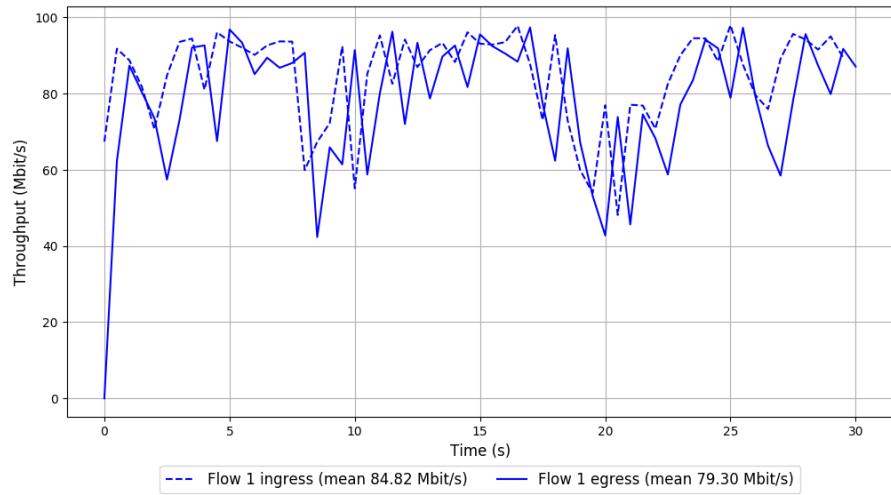


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-02-20 06:50:24
End at: 2019-02-20 06:50:54
Local clock offset: 1.243 ms
Remote clock offset: -2.62 ms

# Below is generated by plot.py at 2019-02-20 07:18:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.30 Mbit/s
95th percentile per-packet one-way delay: 37.328 ms
Loss rate: 6.60%
-- Flow 1:
Average throughput: 79.30 Mbit/s
95th percentile per-packet one-way delay: 37.328 ms
Loss rate: 6.60%
```

Run 5: Report of FillP-Sheep — Data Link

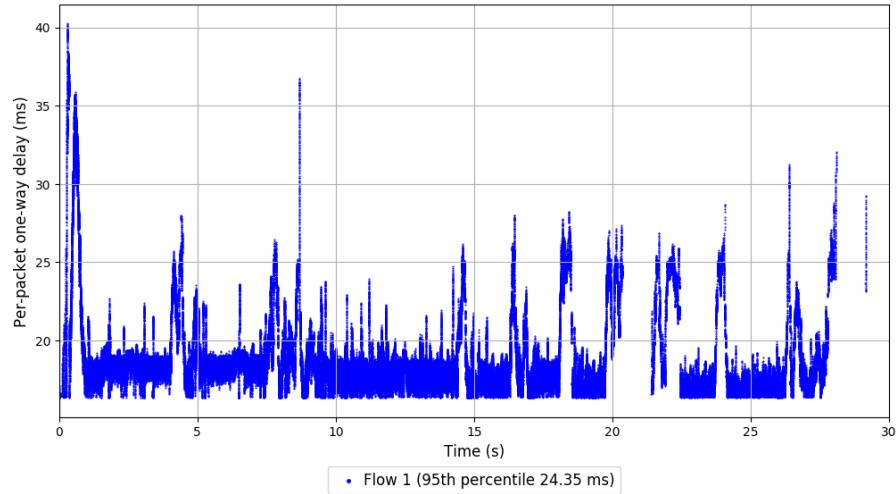
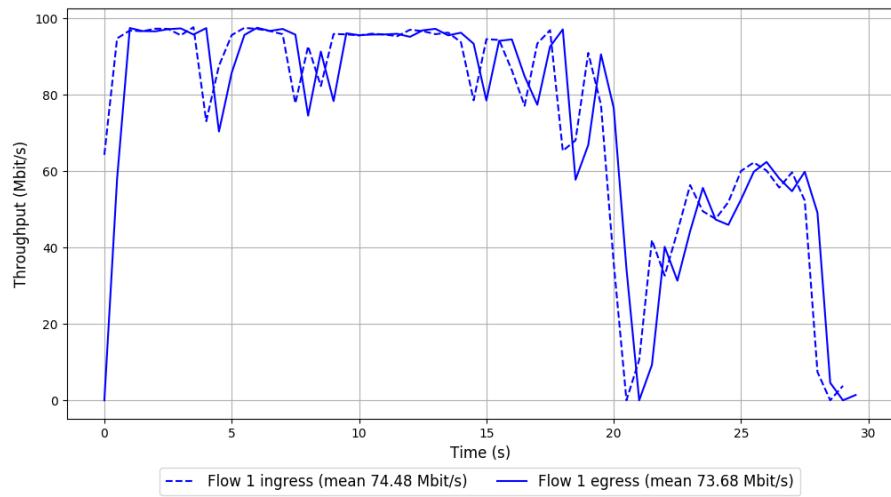


Run 1: Statistics of Indigo

```
Start at: 2019-02-20 05:23:49
End at: 2019-02-20 05:24:19
Local clock offset: -1.413 ms
Remote clock offset: -4.712 ms

# Below is generated by plot.py at 2019-02-20 07:18:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.68 Mbit/s
95th percentile per-packet one-way delay: 24.353 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 73.68 Mbit/s
95th percentile per-packet one-way delay: 24.353 ms
Loss rate: 1.16%
```

Run 1: Report of Indigo — Data Link

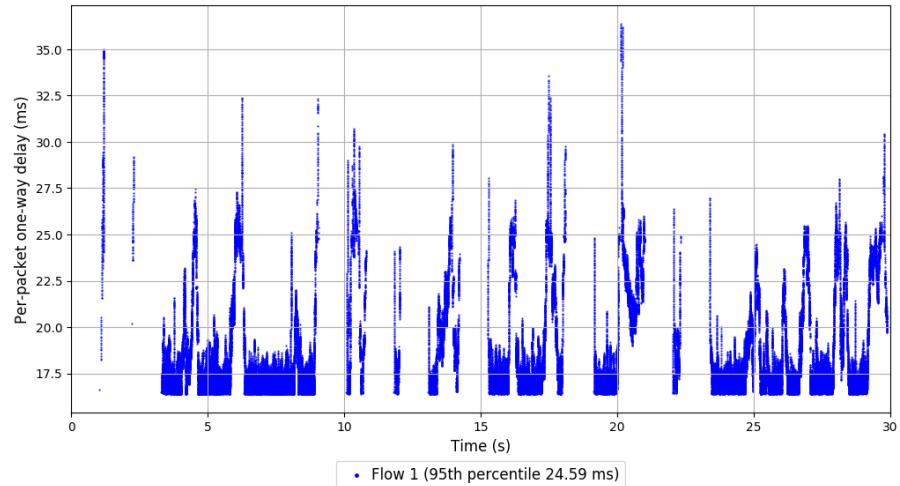
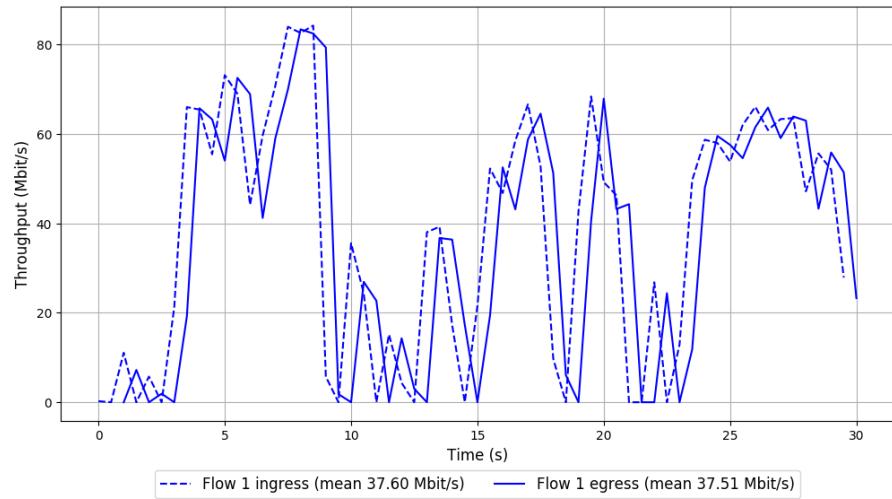


Run 2: Statistics of Indigo

```
Start at: 2019-02-20 05:49:31
End at: 2019-02-20 05:50:01
Local clock offset: -0.652 ms
Remote clock offset: -2.761 ms

# Below is generated by plot.py at 2019-02-20 07:18:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.51 Mbit/s
95th percentile per-packet one-way delay: 24.592 ms
Loss rate: 3.72%
-- Flow 1:
Average throughput: 37.51 Mbit/s
95th percentile per-packet one-way delay: 24.592 ms
Loss rate: 3.72%
```

Run 2: Report of Indigo — Data Link

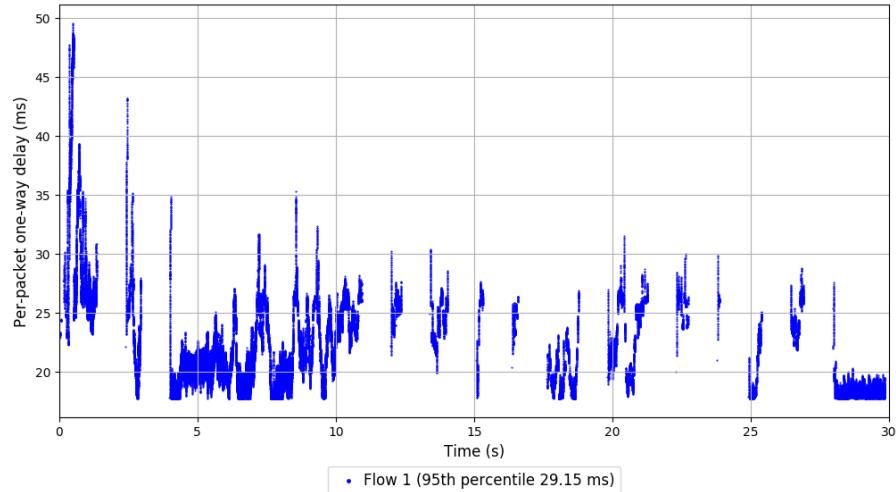
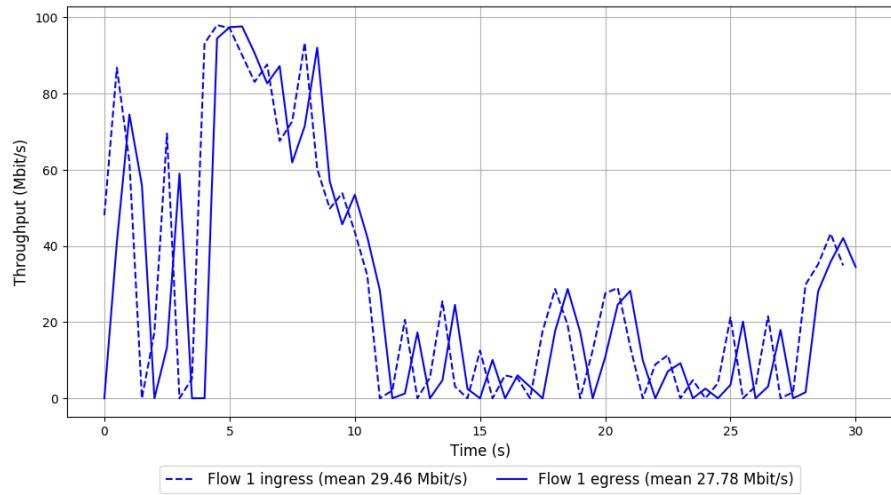


Run 3: Statistics of Indigo

```
Start at: 2019-02-20 06:15:08
End at: 2019-02-20 06:15:38
Local clock offset: -0.579 ms
Remote clock offset: -3.102 ms

# Below is generated by plot.py at 2019-02-20 07:18:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.78 Mbit/s
95th percentile per-packet one-way delay: 29.151 ms
Loss rate: 5.76%
-- Flow 1:
Average throughput: 27.78 Mbit/s
95th percentile per-packet one-way delay: 29.151 ms
Loss rate: 5.76%
```

Run 3: Report of Indigo — Data Link

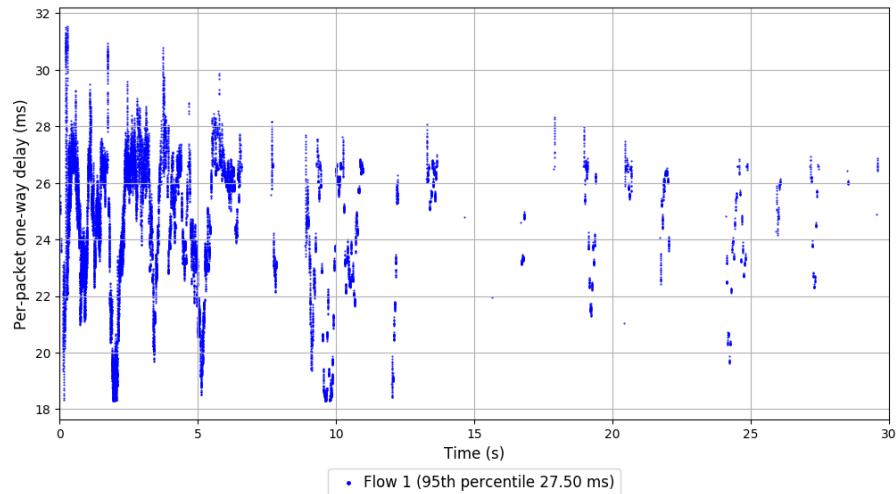
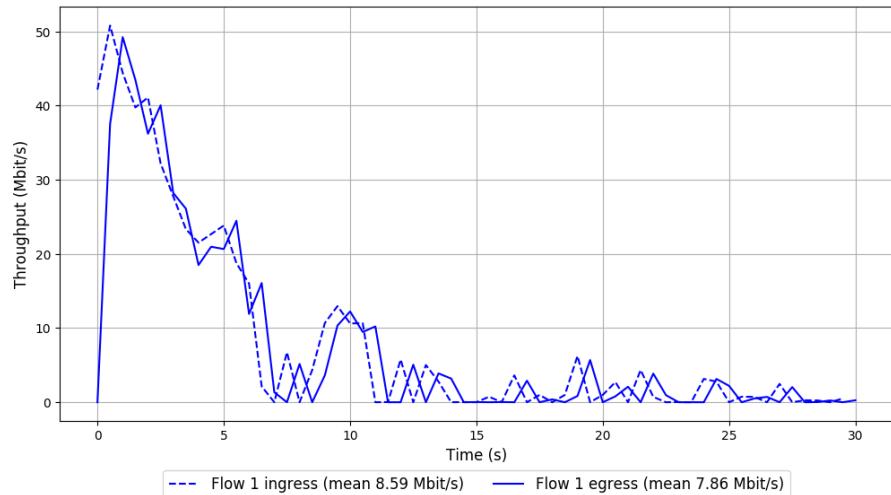


Run 4: Statistics of Indigo

```
Start at: 2019-02-20 06:40:36
End at: 2019-02-20 06:41:06
Local clock offset: 0.737 ms
Remote clock offset: -3.193 ms

# Below is generated by plot.py at 2019-02-20 07:18:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 27.500 ms
Loss rate: 8.59%
-- Flow 1:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 27.500 ms
Loss rate: 8.59%
```

Run 4: Report of Indigo — Data Link

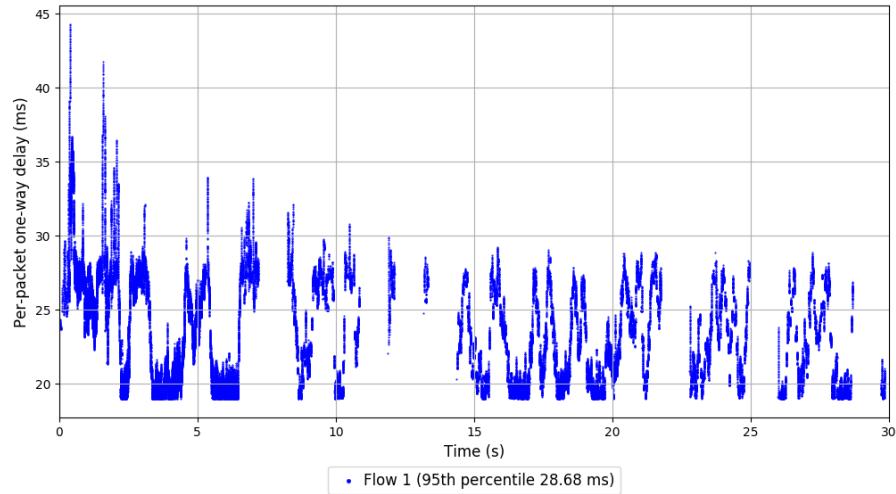
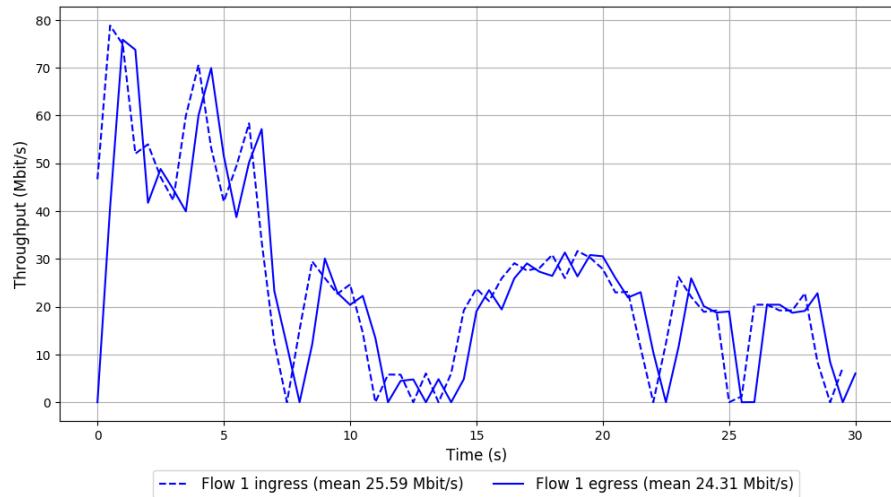


Run 5: Statistics of Indigo

```
Start at: 2019-02-20 07:08:23
End at: 2019-02-20 07:08:53
Local clock offset: 1.887 ms
Remote clock offset: -3.199 ms

# Below is generated by plot.py at 2019-02-20 07:18:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.31 Mbit/s
95th percentile per-packet one-way delay: 28.679 ms
Loss rate: 5.08%
-- Flow 1:
Average throughput: 24.31 Mbit/s
95th percentile per-packet one-way delay: 28.679 ms
Loss rate: 5.08%
```

Run 5: Report of Indigo — Data Link

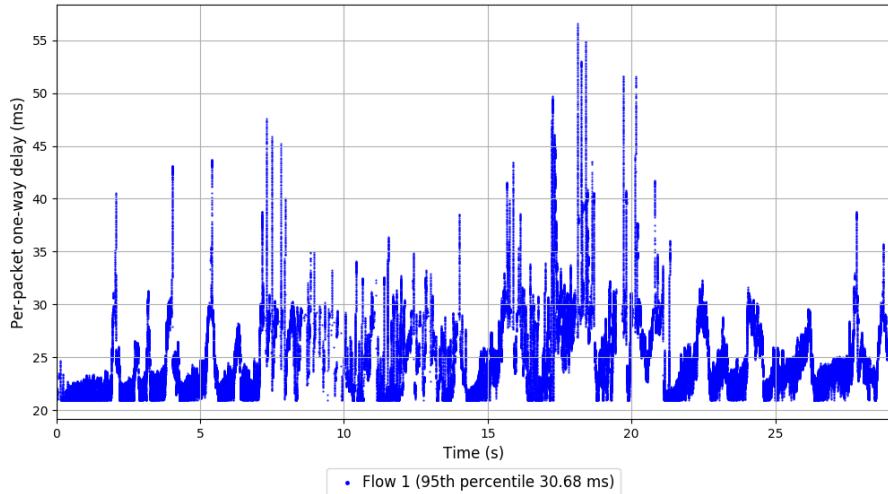
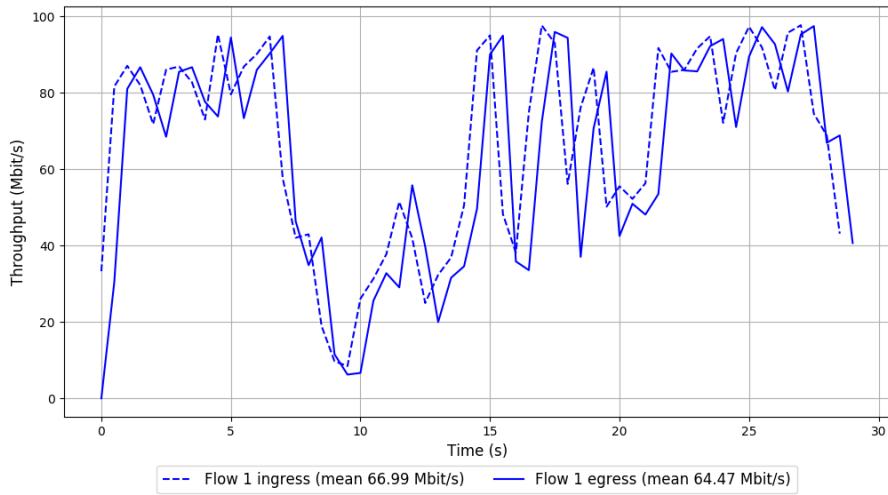


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-02-20 05:16:35
End at: 2019-02-20 05:17:05
Local clock offset: 2.117 ms
Remote clock offset: -5.997 ms

# Below is generated by plot.py at 2019-02-20 07:18:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.47 Mbit/s
95th percentile per-packet one-way delay: 30.683 ms
Loss rate: 3.83%
-- Flow 1:
Average throughput: 64.47 Mbit/s
95th percentile per-packet one-way delay: 30.683 ms
Loss rate: 3.83%
```

Run 1: Report of Indigo-MusesC3 — Data Link

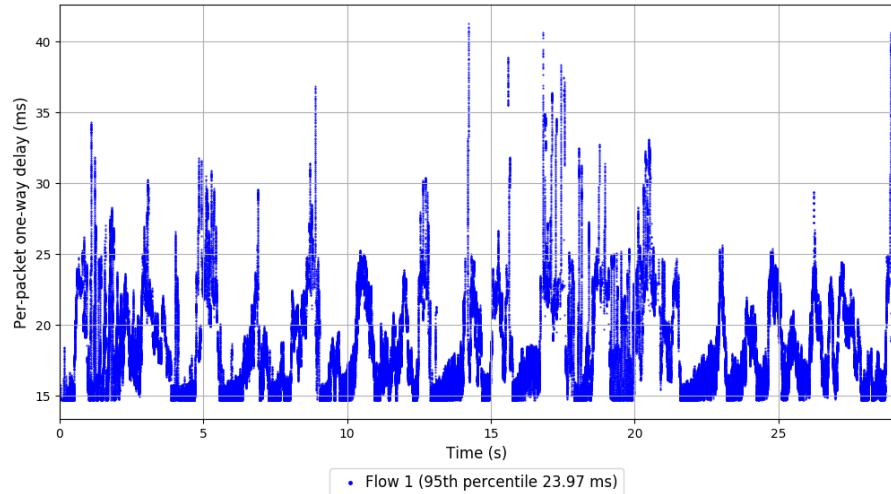
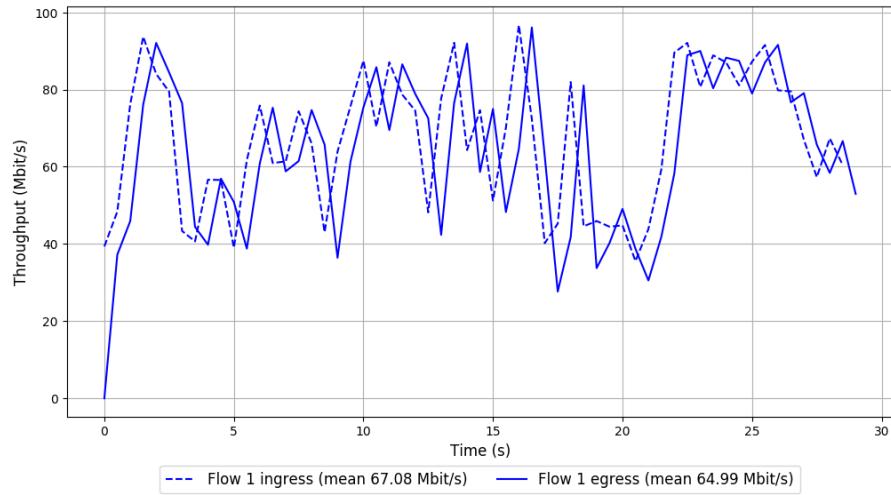


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-02-20 05:42:14
End at: 2019-02-20 05:42:44
Local clock offset: -8.857 ms
Remote clock offset: -9.624 ms

# Below is generated by plot.py at 2019-02-20 07:18:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.99 Mbit/s
95th percentile per-packet one-way delay: 23.973 ms
Loss rate: 3.20%
-- Flow 1:
Average throughput: 64.99 Mbit/s
95th percentile per-packet one-way delay: 23.973 ms
Loss rate: 3.20%
```

Run 2: Report of Indigo-MusesC3 — Data Link

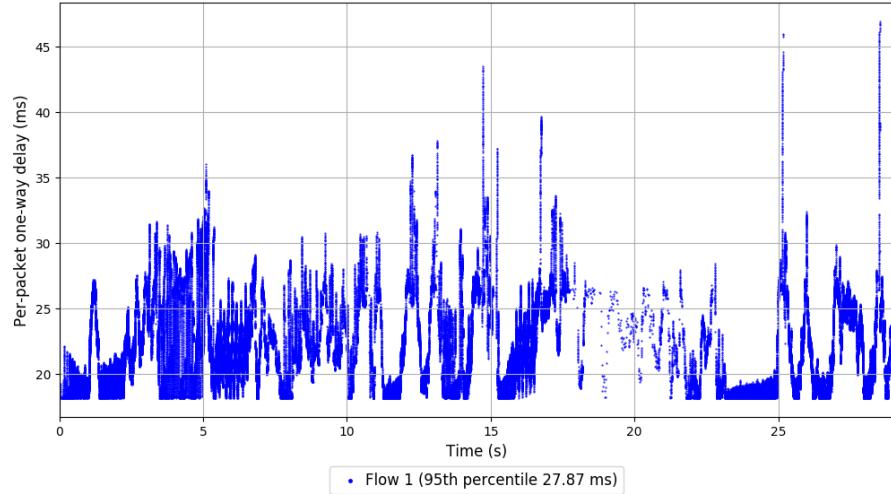
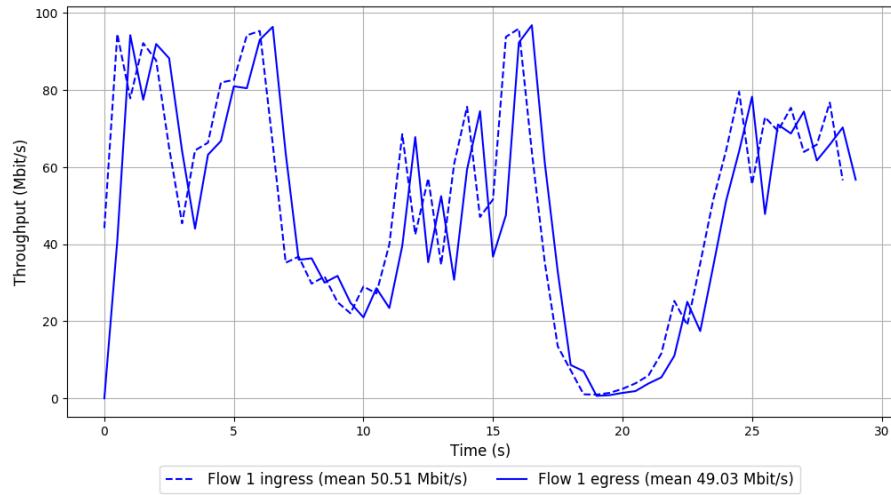


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-02-20 06:08:12
End at: 2019-02-20 06:08:42
Local clock offset: 0.668 ms
Remote clock offset: -2.555 ms

# Below is generated by plot.py at 2019-02-20 07:18:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.03 Mbit/s
95th percentile per-packet one-way delay: 27.872 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 49.03 Mbit/s
95th percentile per-packet one-way delay: 27.872 ms
Loss rate: 3.01%
```

Run 3: Report of Indigo-MusesC3 — Data Link

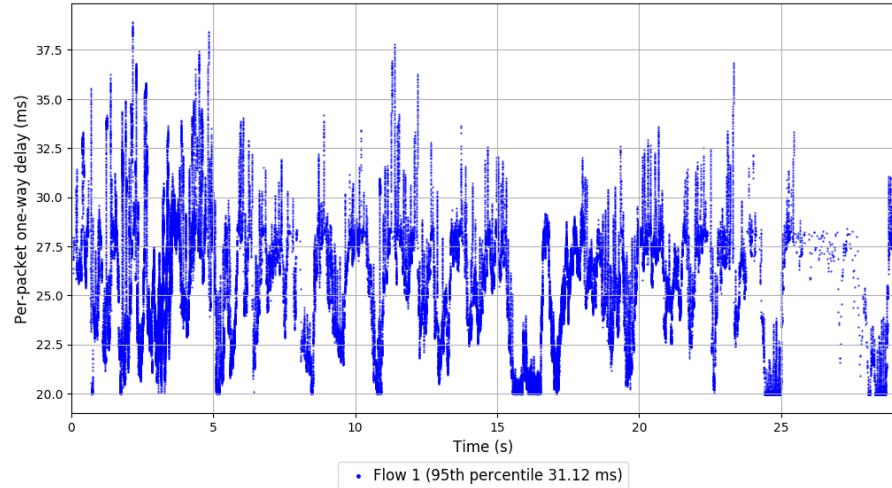
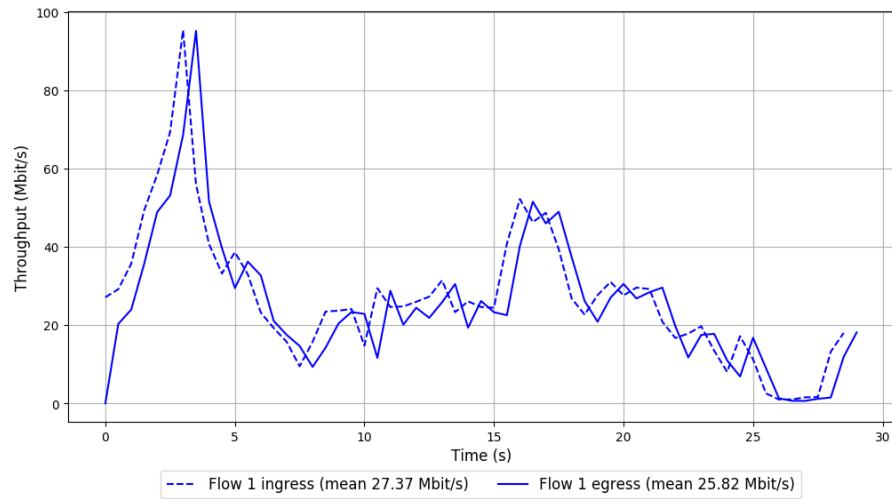


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-02-20 06:33:24
End at: 2019-02-20 06:33:54
Local clock offset: 0.241 ms
Remote clock offset: -4.769 ms

# Below is generated by plot.py at 2019-02-20 07:18:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.82 Mbit/s
95th percentile per-packet one-way delay: 31.123 ms
Loss rate: 5.75%
-- Flow 1:
Average throughput: 25.82 Mbit/s
95th percentile per-packet one-way delay: 31.123 ms
Loss rate: 5.75%
```

Run 4: Report of Indigo-MusesC3 — Data Link

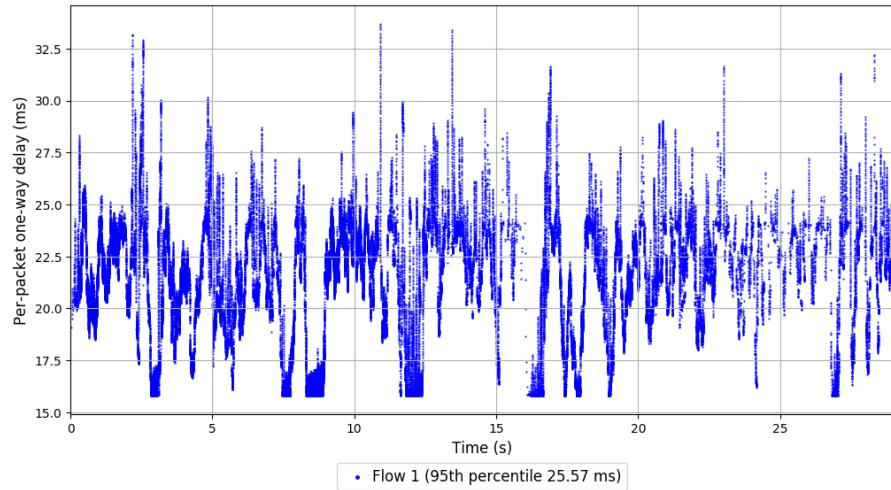
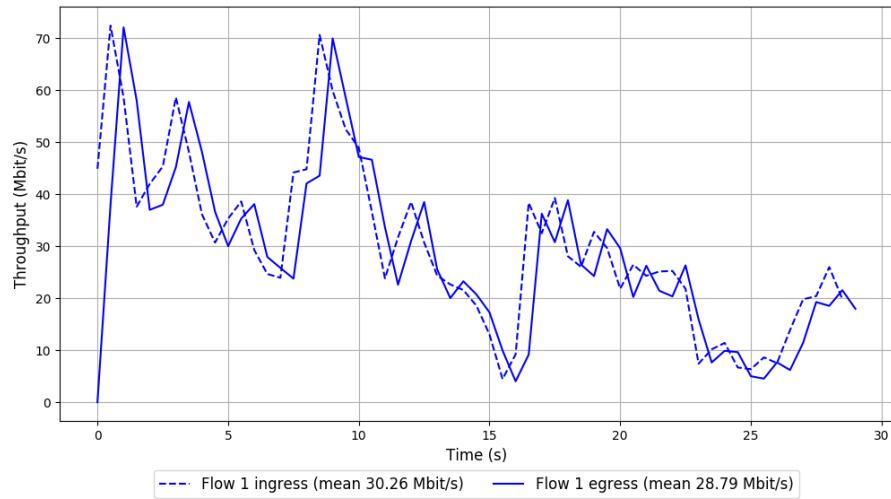


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-02-20 06:59:14
End at: 2019-02-20 06:59:44
Local clock offset: -1.125 ms
Remote clock offset: -3.044 ms

# Below is generated by plot.py at 2019-02-20 07:18:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.79 Mbit/s
95th percentile per-packet one-way delay: 25.568 ms
Loss rate: 4.97%
-- Flow 1:
Average throughput: 28.79 Mbit/s
95th percentile per-packet one-way delay: 25.568 ms
Loss rate: 4.97%
```

Run 5: Report of Indigo-MusesC3 — Data Link

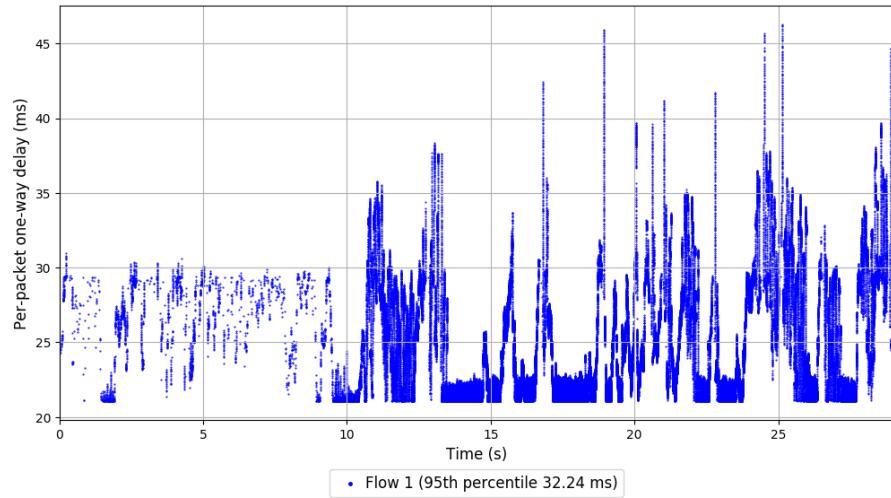
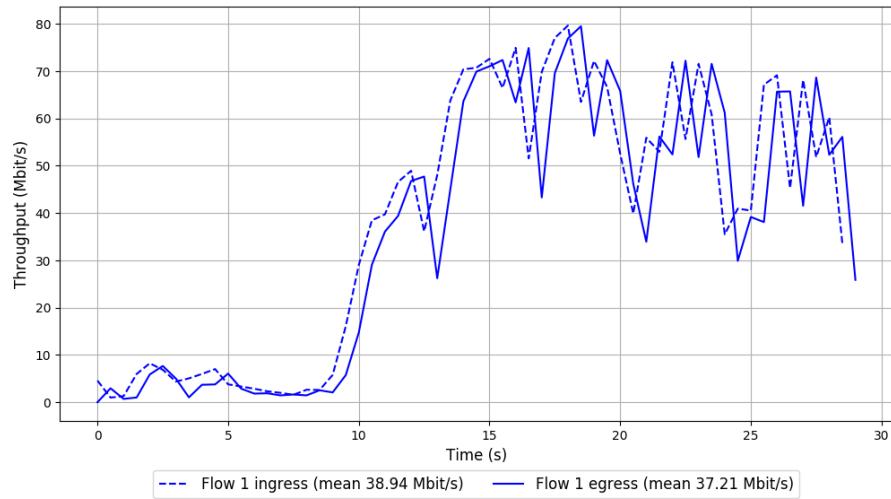


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-02-20 05:15:26
End at: 2019-02-20 05:15:56
Local clock offset: 1.981 ms
Remote clock offset: -6.271 ms

# Below is generated by plot.py at 2019-02-20 07:18:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 32.241 ms
Loss rate: 4.50%
-- Flow 1:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 32.241 ms
Loss rate: 4.50%
```

Run 1: Report of Indigo-MusesC5 — Data Link

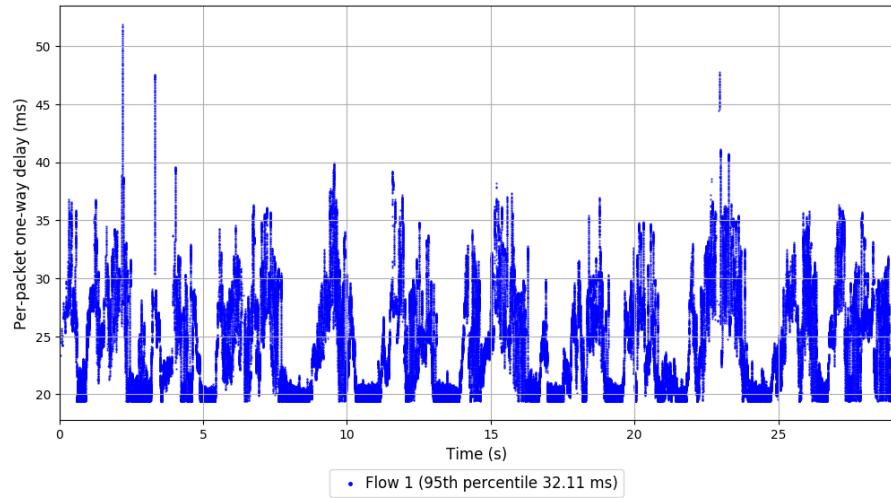
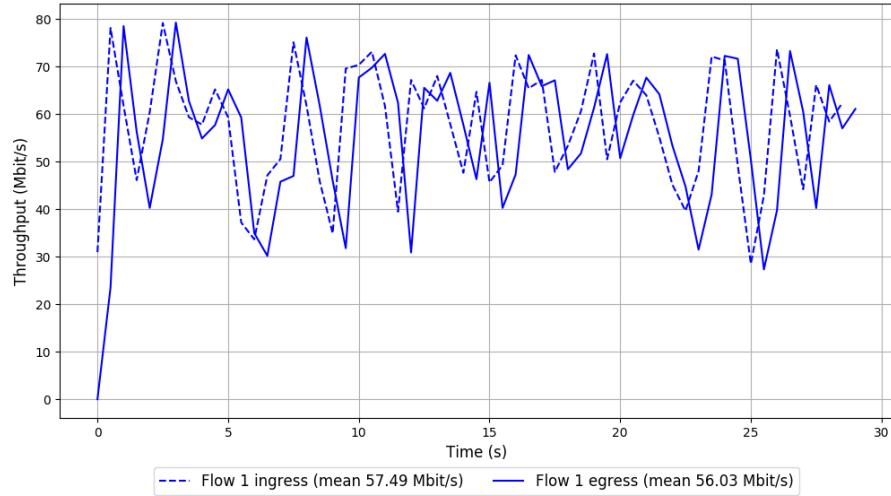


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-02-20 05:41:03
End at: 2019-02-20 05:41:33
Local clock offset: 1.28 ms
Remote clock offset: -4.274 ms

# Below is generated by plot.py at 2019-02-20 07:19:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.03 Mbit/s
95th percentile per-packet one-way delay: 32.110 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 56.03 Mbit/s
95th percentile per-packet one-way delay: 32.110 ms
Loss rate: 2.64%
```

Run 2: Report of Indigo-MusesC5 — Data Link

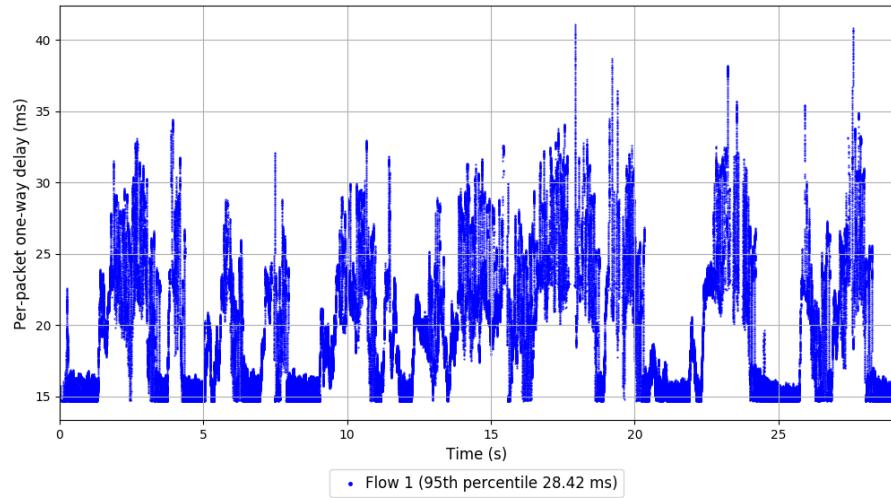
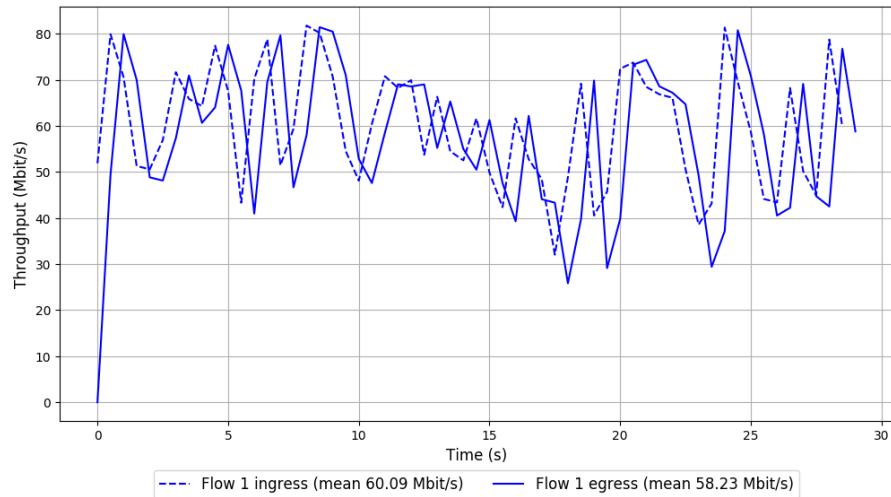


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-02-20 06:06:51
End at: 2019-02-20 06:07:21
Local clock offset: -2.859 ms
Remote clock offset: -2.676 ms

# Below is generated by plot.py at 2019-02-20 07:19:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.23 Mbit/s
95th percentile per-packet one-way delay: 28.422 ms
Loss rate: 3.17%
-- Flow 1:
Average throughput: 58.23 Mbit/s
95th percentile per-packet one-way delay: 28.422 ms
Loss rate: 3.17%
```

Run 3: Report of Indigo-MusesC5 — Data Link

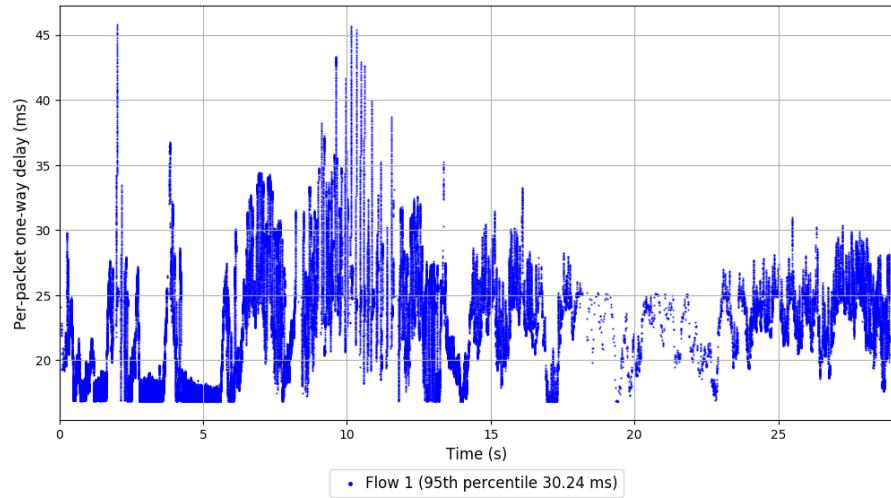
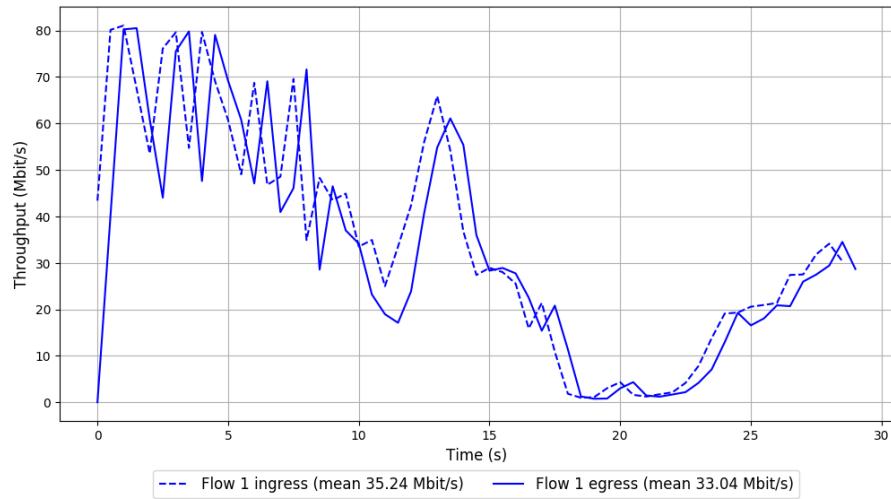


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-02-20 06:32:12
End at: 2019-02-20 06:32:42
Local clock offset: -1.568 ms
Remote clock offset: -3.278 ms

# Below is generated by plot.py at 2019-02-20 07:19:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.04 Mbit/s
95th percentile per-packet one-way delay: 30.239 ms
Loss rate: 6.33%
-- Flow 1:
Average throughput: 33.04 Mbit/s
95th percentile per-packet one-way delay: 30.239 ms
Loss rate: 6.33%
```

Run 4: Report of Indigo-MusesC5 — Data Link

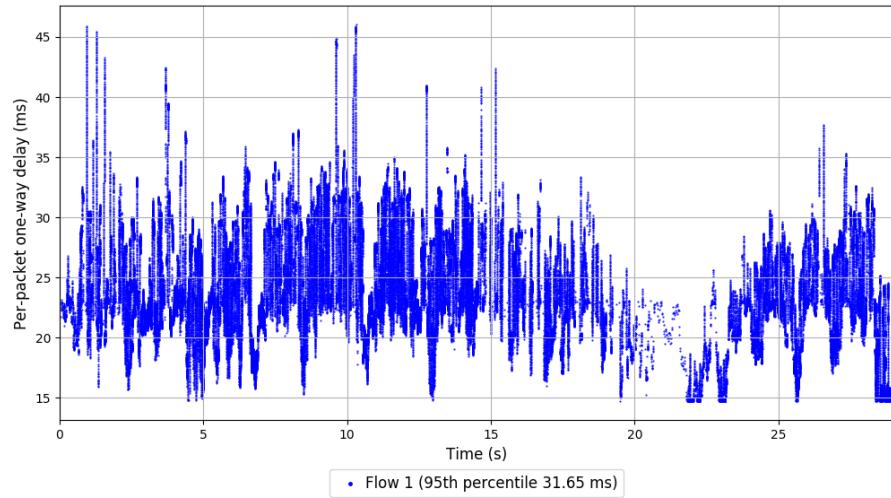
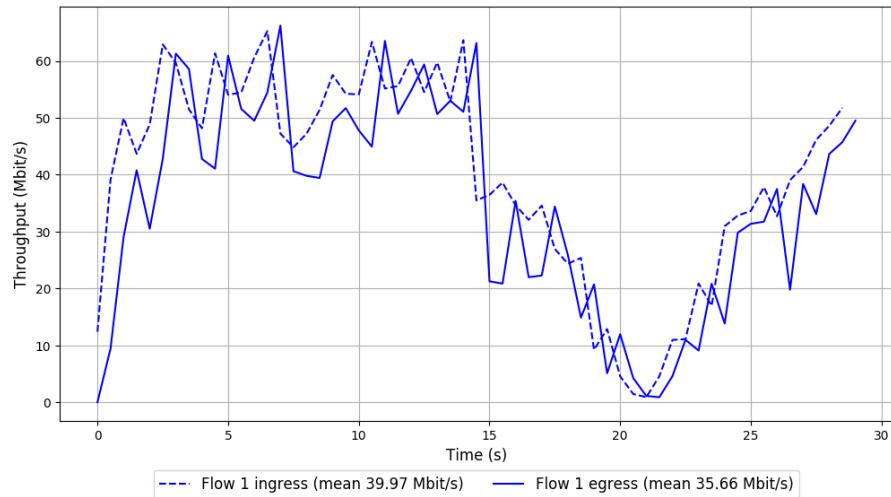


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-02-20 06:58:04
End at: 2019-02-20 06:58:34
Local clock offset: -1.114 ms
Remote clock offset: -1.938 ms

# Below is generated by plot.py at 2019-02-20 07:19:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.66 Mbit/s
95th percentile per-packet one-way delay: 31.653 ms
Loss rate: 10.86%
-- Flow 1:
Average throughput: 35.66 Mbit/s
95th percentile per-packet one-way delay: 31.653 ms
Loss rate: 10.86%
```

Run 5: Report of Indigo-MusesC5 — Data Link

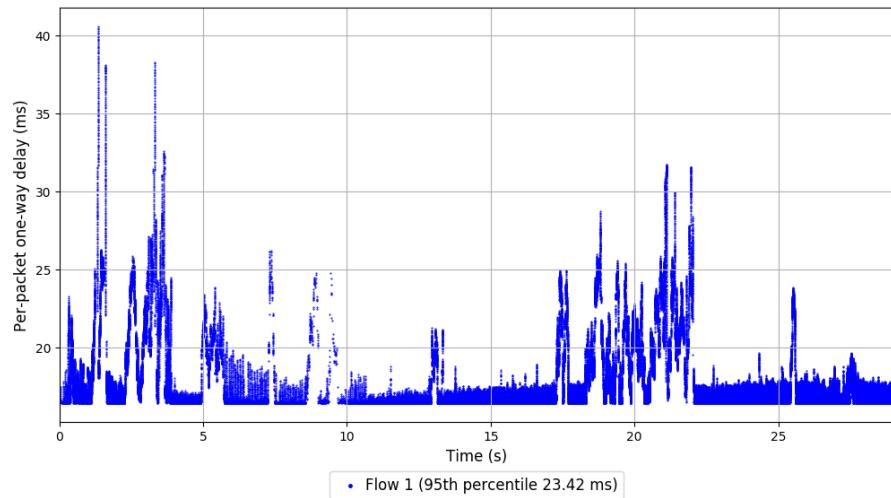
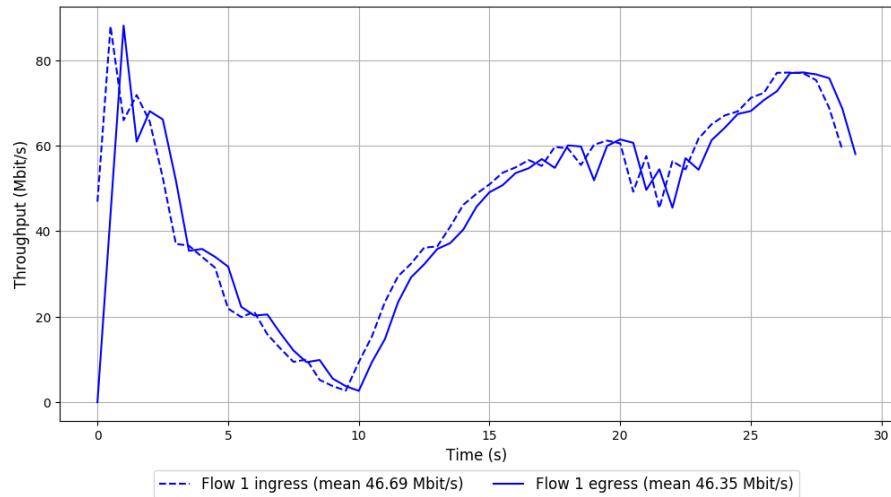


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-02-20 05:09:33
End at: 2019-02-20 05:10:03
Local clock offset: -1.588 ms
Remote clock offset: -5.343 ms

# Below is generated by plot.py at 2019-02-20 07:19:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.35 Mbit/s
95th percentile per-packet one-way delay: 23.420 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 46.35 Mbit/s
95th percentile per-packet one-way delay: 23.420 ms
Loss rate: 0.83%
```

Run 1: Report of Indigo-MusesD — Data Link

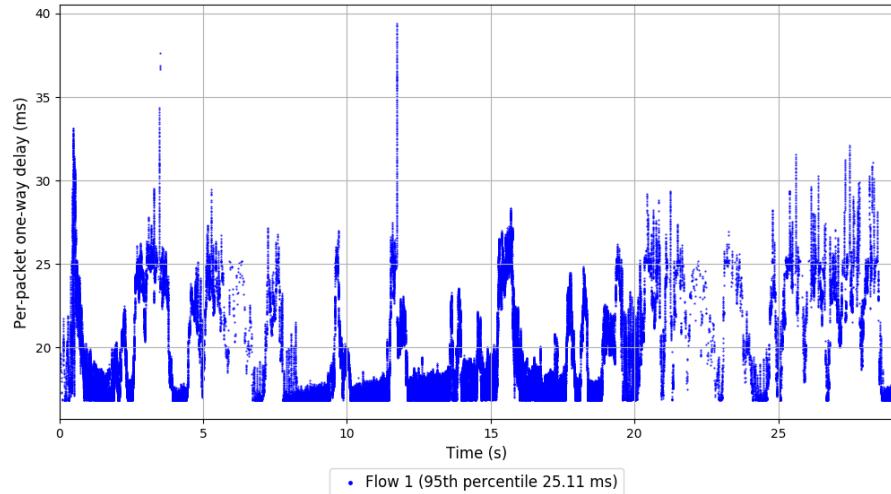
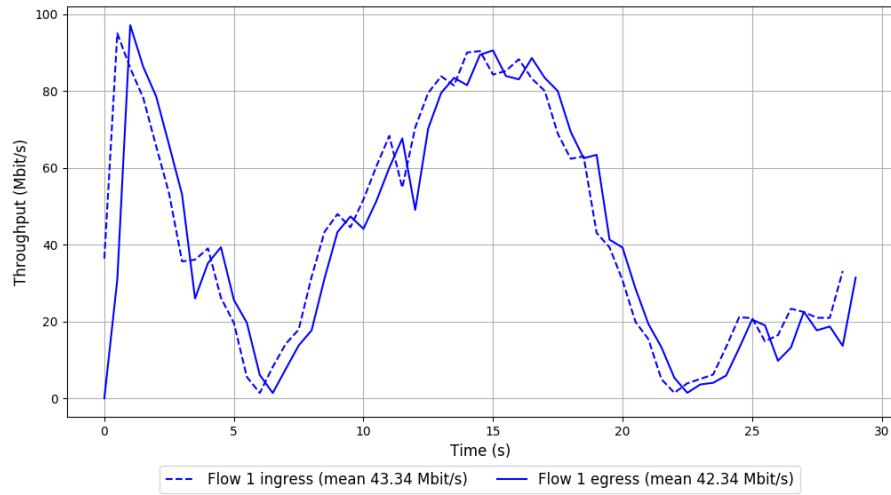


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-02-20 05:35:03
End at: 2019-02-20 05:35:33
Local clock offset: 0.591 ms
Remote clock offset: -2.683 ms

# Below is generated by plot.py at 2019-02-20 07:19:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.34 Mbit/s
95th percentile per-packet one-way delay: 25.114 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 42.34 Mbit/s
95th percentile per-packet one-way delay: 25.114 ms
Loss rate: 2.41%
```

Run 2: Report of Indigo-MusesD — Data Link

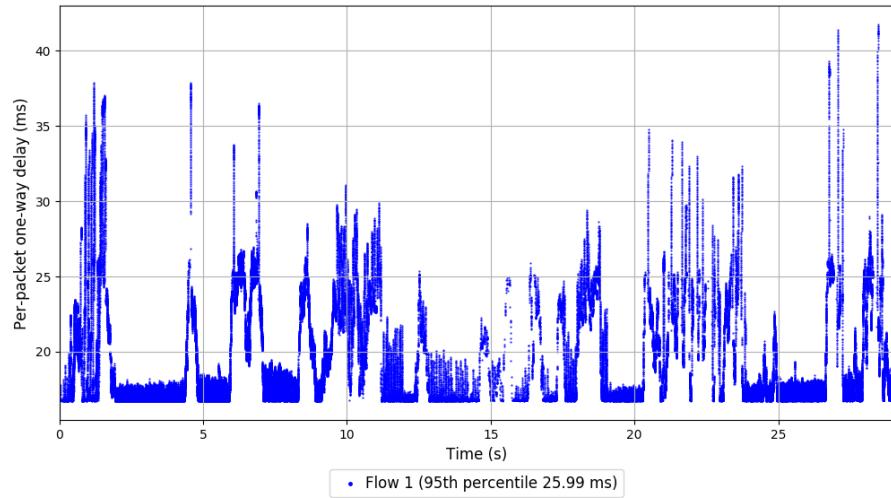
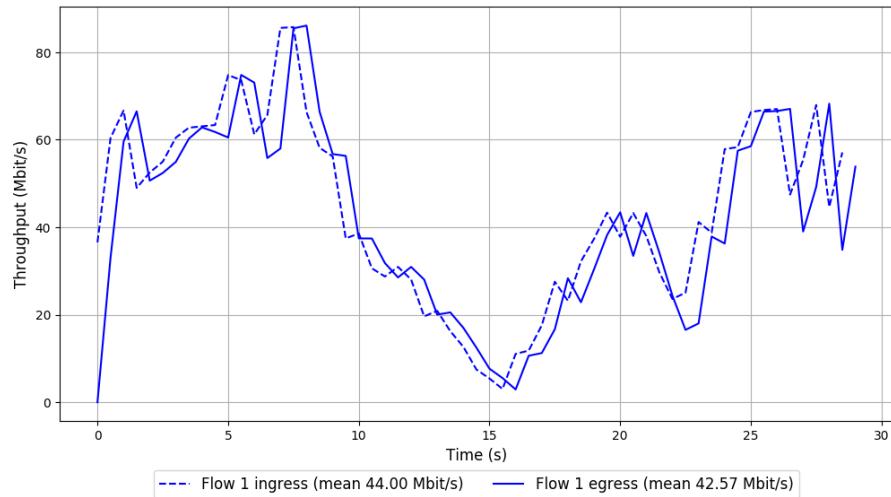


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-02-20 06:00:34
End at: 2019-02-20 06:01:04
Local clock offset: -1.937 ms
Remote clock offset: -3.947 ms

# Below is generated by plot.py at 2019-02-20 07:19:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.57 Mbit/s
95th percentile per-packet one-way delay: 25.994 ms
Loss rate: 3.32%
-- Flow 1:
Average throughput: 42.57 Mbit/s
95th percentile per-packet one-way delay: 25.994 ms
Loss rate: 3.32%
```

Run 3: Report of Indigo-MusesD — Data Link

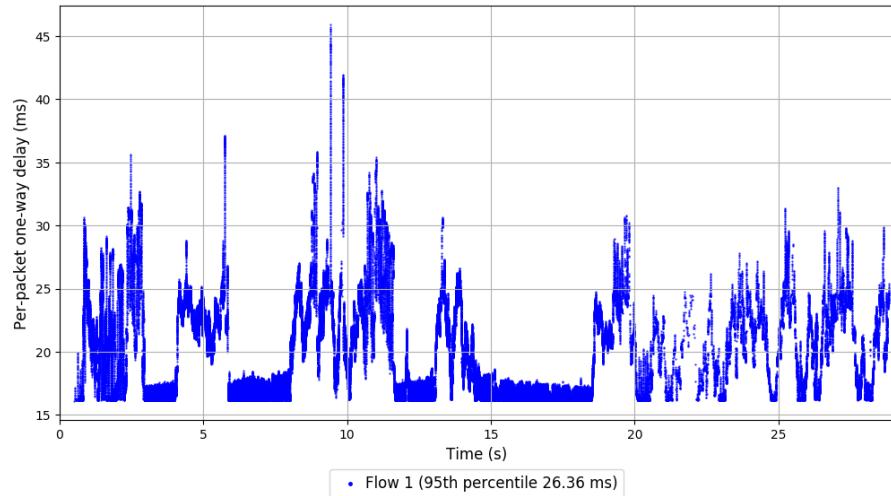
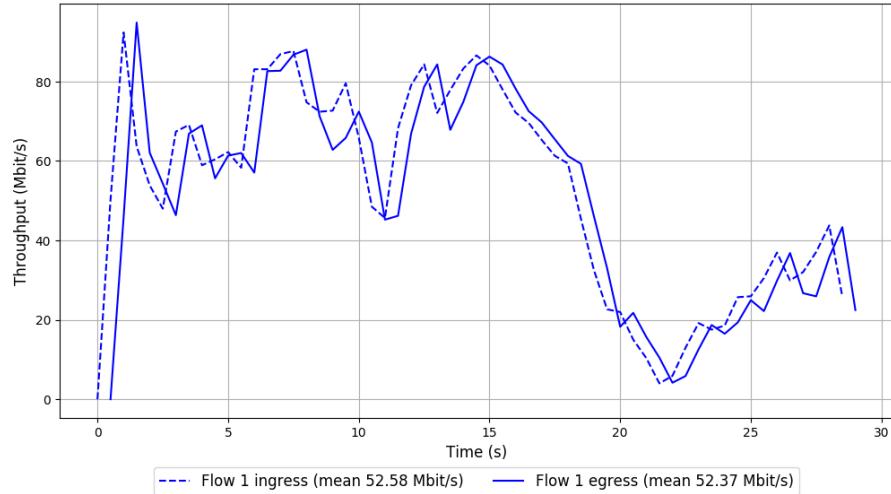


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-02-20 06:25:59
End at: 2019-02-20 06:26:29
Local clock offset: -2.564 ms
Remote clock offset: -3.2 ms

# Below is generated by plot.py at 2019-02-20 07:19:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.37 Mbit/s
95th percentile per-packet one-way delay: 26.356 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 52.37 Mbit/s
95th percentile per-packet one-way delay: 26.356 ms
Loss rate: 2.36%
```

Run 4: Report of Indigo-MusesD — Data Link

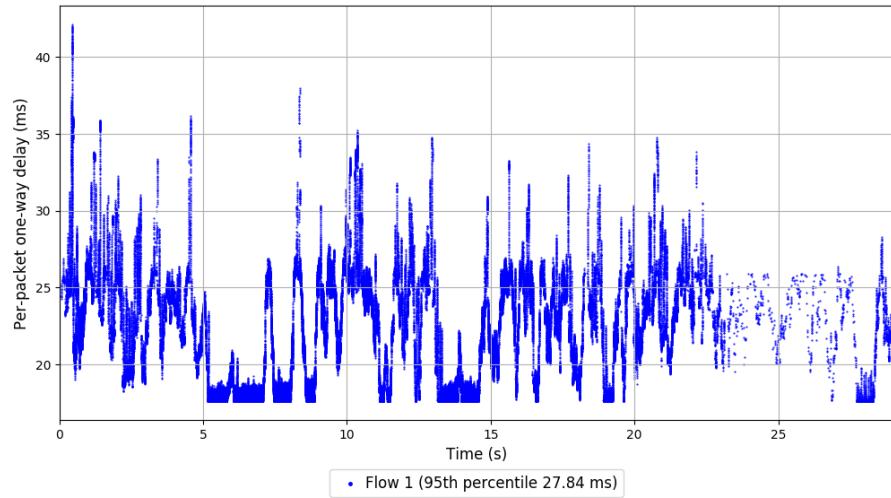
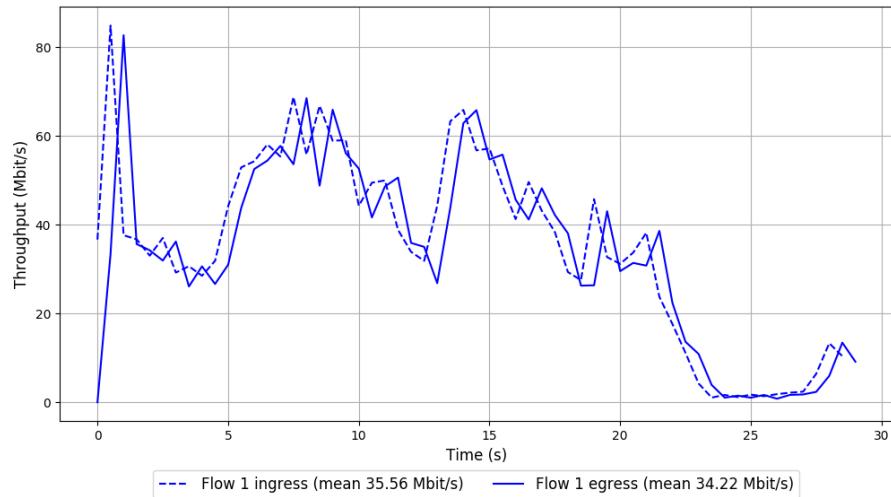


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-02-20 06:51:42
End at: 2019-02-20 06:52:12
Local clock offset: 0.854 ms
Remote clock offset: -2.75 ms

# Below is generated by plot.py at 2019-02-20 07:19:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.22 Mbit/s
95th percentile per-packet one-way delay: 27.842 ms
Loss rate: 3.85%
-- Flow 1:
Average throughput: 34.22 Mbit/s
95th percentile per-packet one-way delay: 27.842 ms
Loss rate: 3.85%
```

Run 5: Report of Indigo-MusesD — Data Link

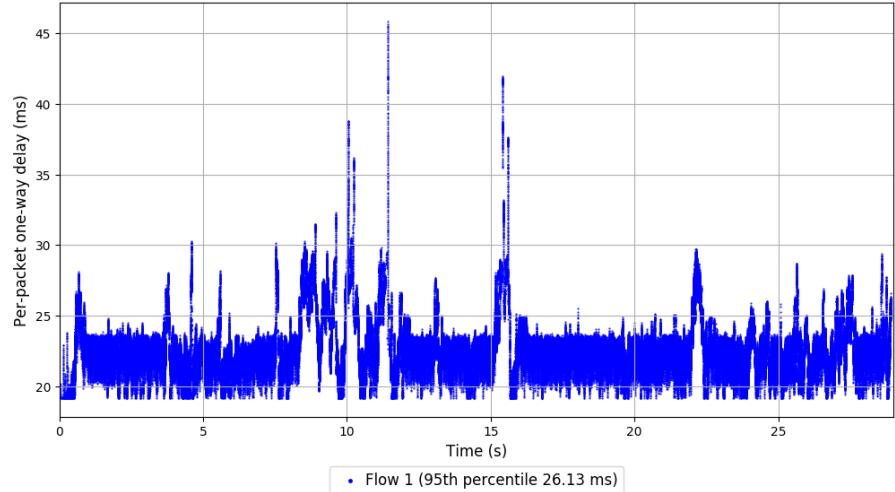
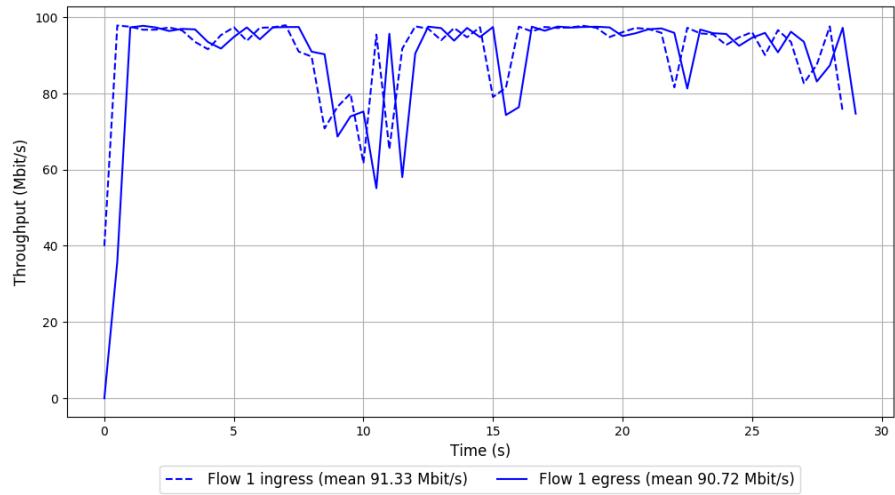


```
Run 1: Statistics of Indigo-MusesT
```

```
Start at: 2019-02-20 05:06:55
End at: 2019-02-20 05:07:25
Local clock offset: 1.675 ms
Remote clock offset: -4.784 ms

# Below is generated by plot.py at 2019-02-20 07:20:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.72 Mbit/s
95th percentile per-packet one-way delay: 26.131 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 90.72 Mbit/s
95th percentile per-packet one-way delay: 26.131 ms
Loss rate: 0.75%
```

Run 1: Report of Indigo-MusesT — Data Link

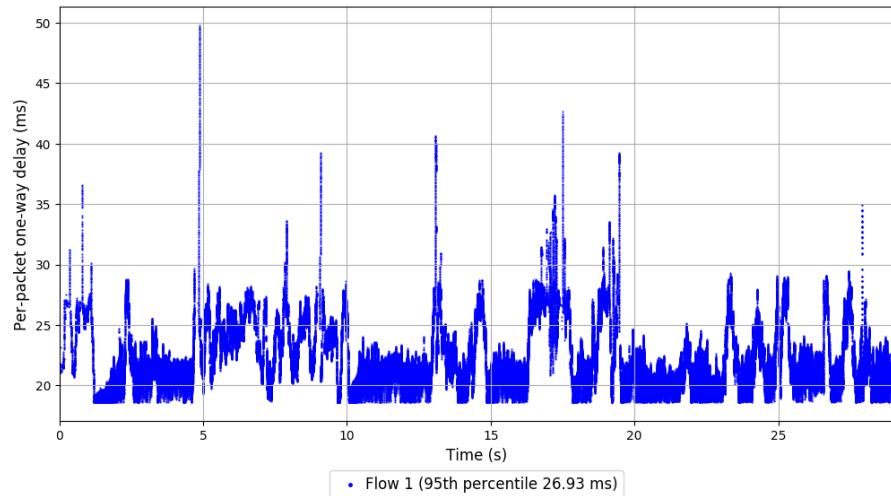
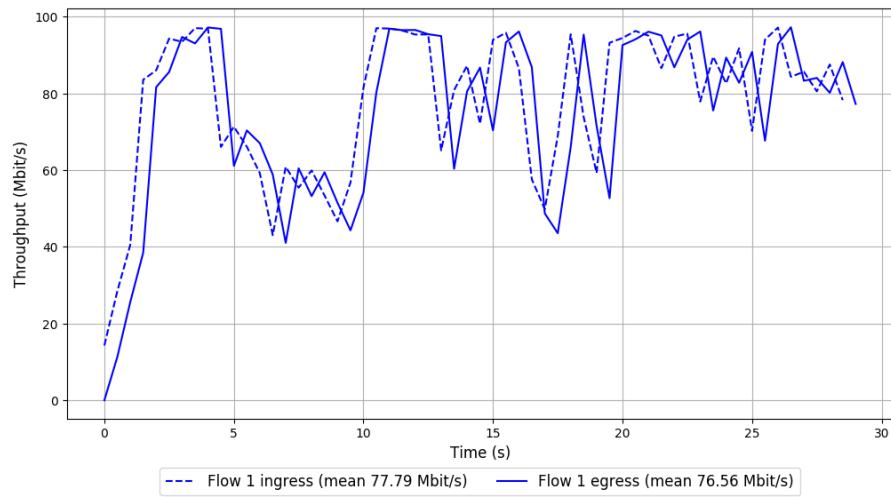


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-02-20 05:32:33
End at: 2019-02-20 05:33:03
Local clock offset: 1.658 ms
Remote clock offset: -3.532 ms

# Below is generated by plot.py at 2019-02-20 07:20:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.56 Mbit/s
95th percentile per-packet one-way delay: 26.928 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 76.56 Mbit/s
95th percentile per-packet one-way delay: 26.928 ms
Loss rate: 1.67%
```

Run 2: Report of Indigo-MusesT — Data Link

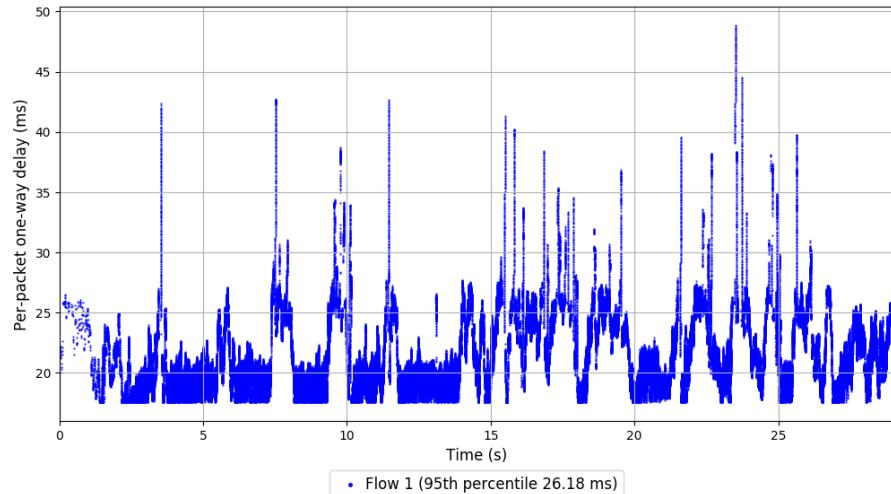
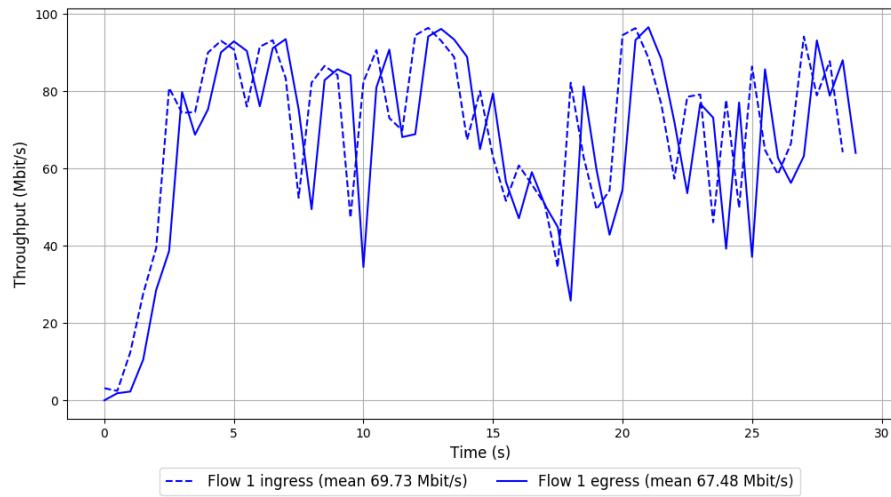


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-02-20 05:58:07
End at: 2019-02-20 05:58:37
Local clock offset: 0.135 ms
Remote clock offset: -2.768 ms

# Below is generated by plot.py at 2019-02-20 07:20:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.48 Mbit/s
95th percentile per-packet one-way delay: 26.182 ms
Loss rate: 3.32%
-- Flow 1:
Average throughput: 67.48 Mbit/s
95th percentile per-packet one-way delay: 26.182 ms
Loss rate: 3.32%
```

Run 3: Report of Indigo-MusesT — Data Link

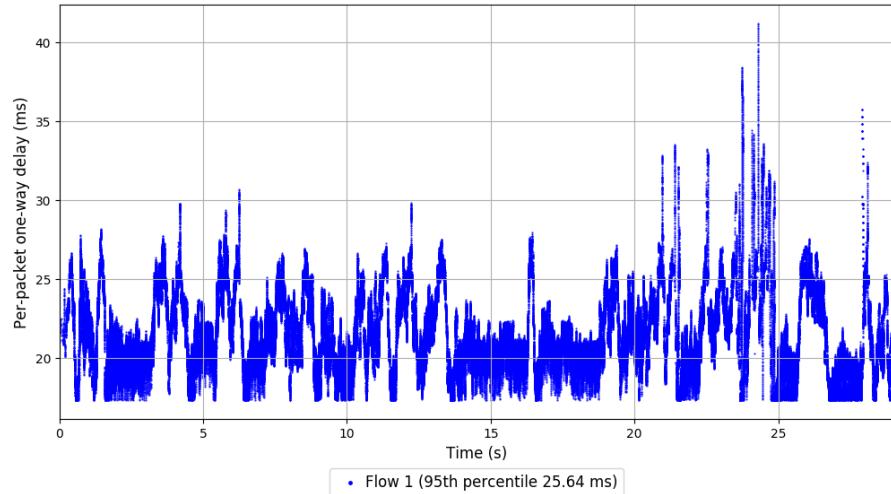
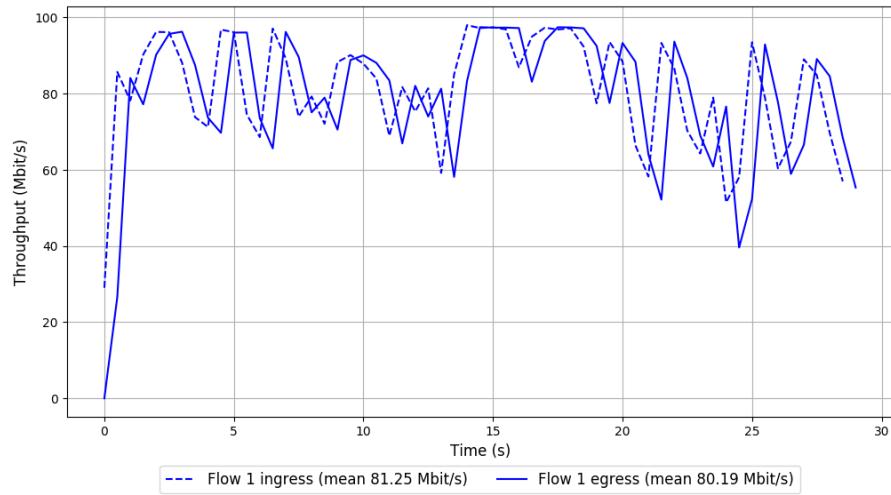


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-02-20 06:23:30
End at: 2019-02-20 06:24:00
Local clock offset: -0.279 ms
Remote clock offset: -2.145 ms

# Below is generated by plot.py at 2019-02-20 07:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.19 Mbit/s
95th percentile per-packet one-way delay: 25.642 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 80.19 Mbit/s
95th percentile per-packet one-way delay: 25.642 ms
Loss rate: 1.40%
```

Run 4: Report of Indigo-MusesT — Data Link

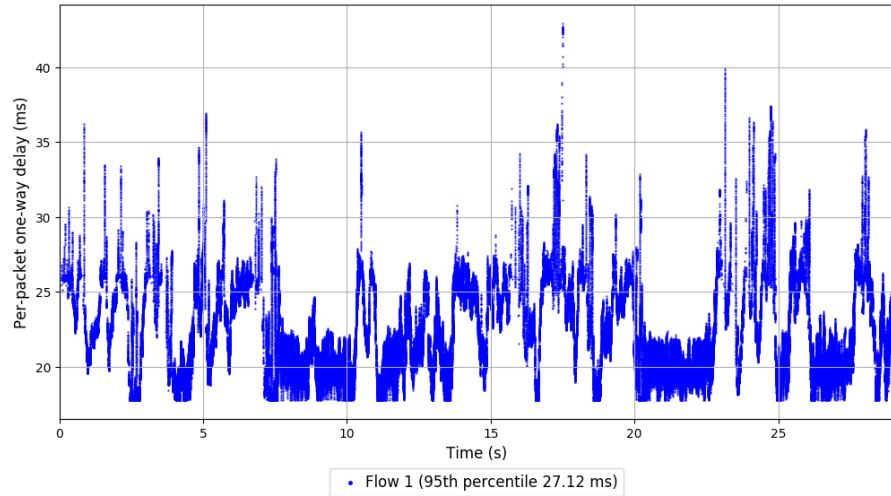
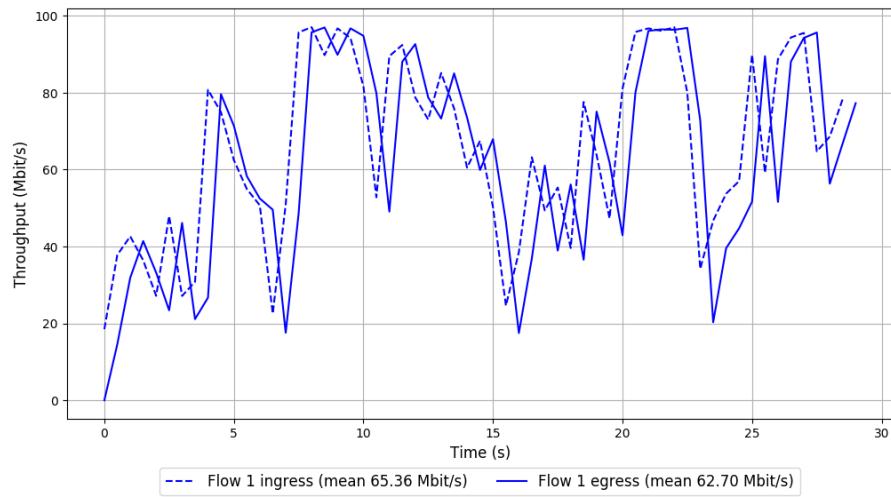


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-02-20 06:49:06
End at: 2019-02-20 06:49:36
Local clock offset: 1.545 ms
Remote clock offset: -2.15 ms

# Below is generated by plot.py at 2019-02-20 07:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.70 Mbit/s
95th percentile per-packet one-way delay: 27.124 ms
Loss rate: 4.17%
-- Flow 1:
Average throughput: 62.70 Mbit/s
95th percentile per-packet one-way delay: 27.124 ms
Loss rate: 4.17%
```

Run 5: Report of Indigo-MusesT — Data Link

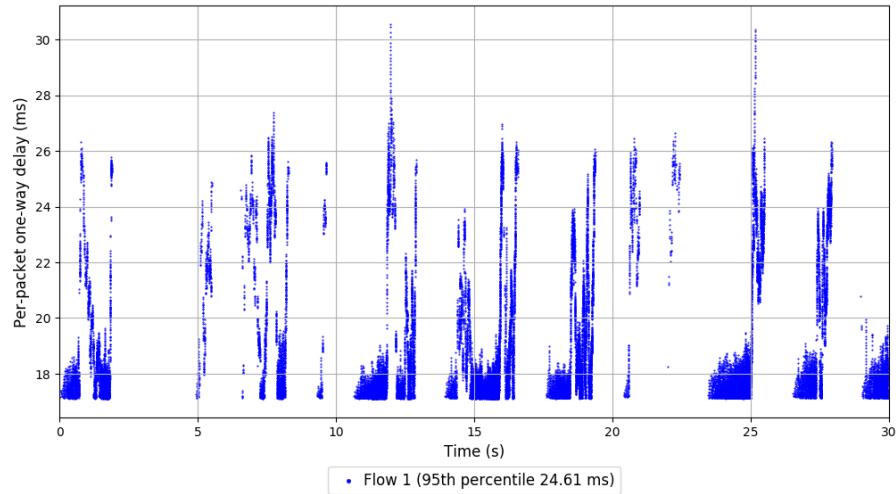
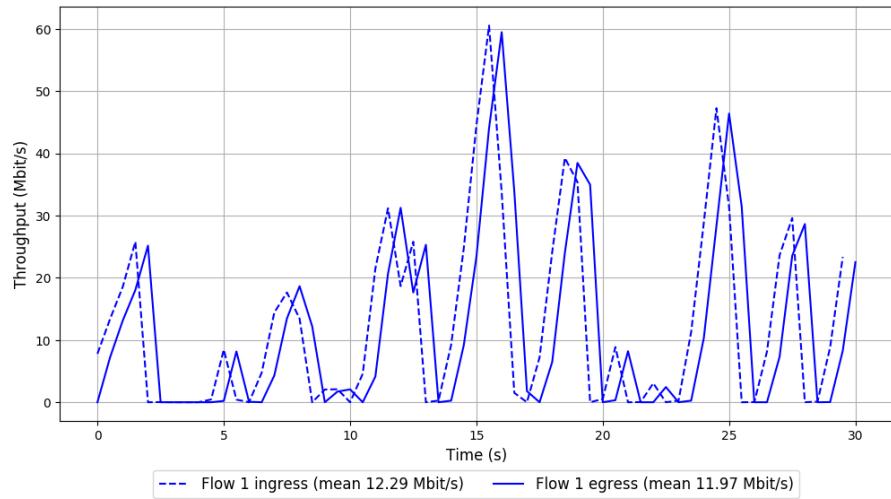


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-02-20 05:27:54
End at: 2019-02-20 05:28:24
Local clock offset: 0.556 ms
Remote clock offset: -3.344 ms

# Below is generated by plot.py at 2019-02-20 07:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 24.608 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 24.608 ms
Loss rate: 2.64%
```

Run 1: Report of LEDBAT — Data Link

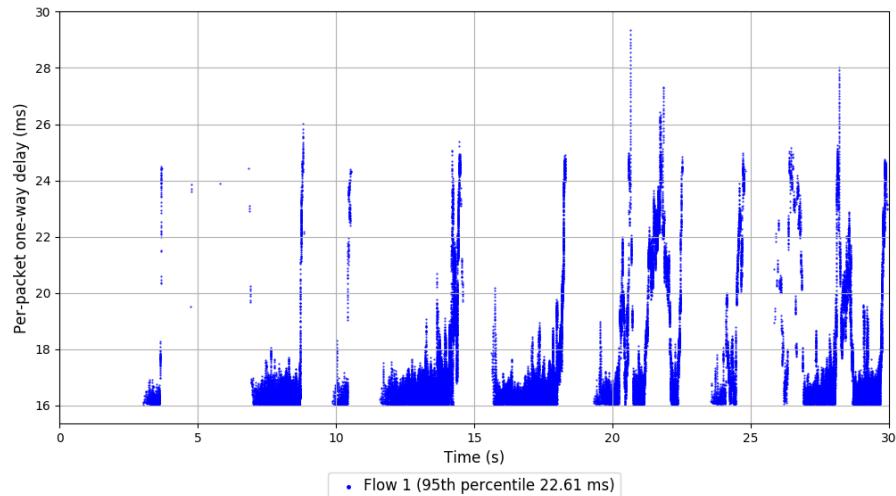
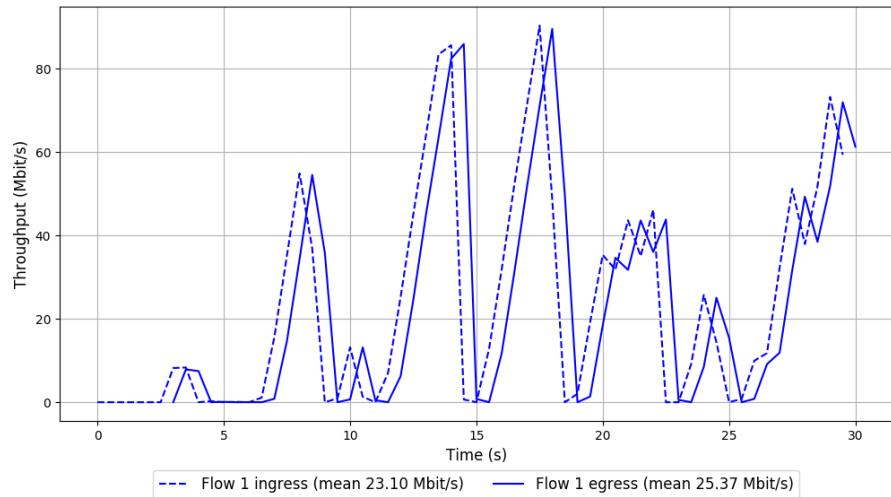


Run 2: Statistics of LEDBAT

```
Start at: 2019-02-20 05:53:25
End at: 2019-02-20 05:53:55
Local clock offset: -2.721 ms
Remote clock offset: -4.296 ms

# Below is generated by plot.py at 2019-02-20 07:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.37 Mbit/s
95th percentile per-packet one-way delay: 22.614 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 25.37 Mbit/s
95th percentile per-packet one-way delay: 22.614 ms
Loss rate: 1.17%
```

Run 2: Report of LEDBAT — Data Link

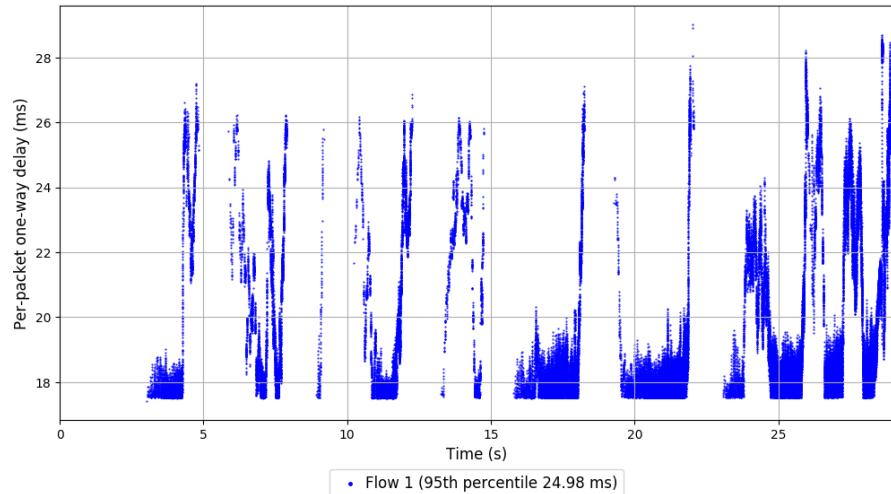
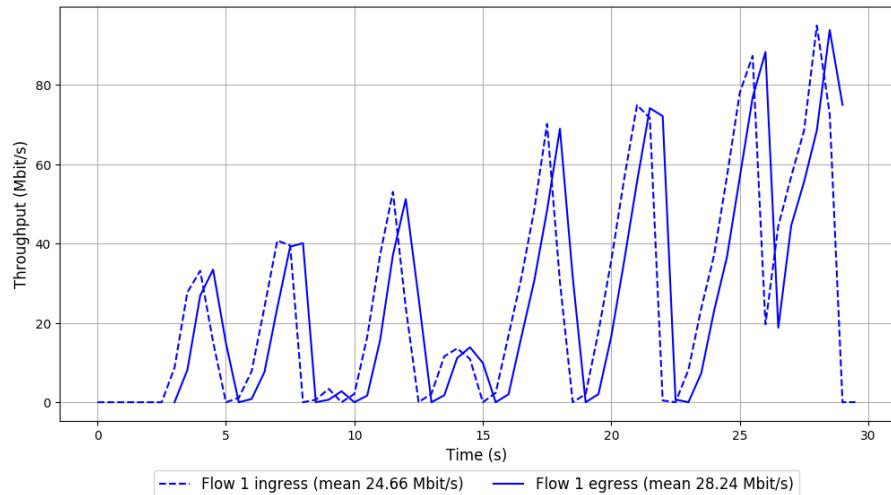


Run 3: Statistics of LEDBAT

```
Start at: 2019-02-20 06:18:53
End at: 2019-02-20 06:19:23
Local clock offset: -1.003 ms
Remote clock offset: -3.217 ms

# Below is generated by plot.py at 2019-02-20 07:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.24 Mbit/s
95th percentile per-packet one-way delay: 24.978 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 28.24 Mbit/s
95th percentile per-packet one-way delay: 24.978 ms
Loss rate: 0.88%
```

Run 3: Report of LEDBAT — Data Link

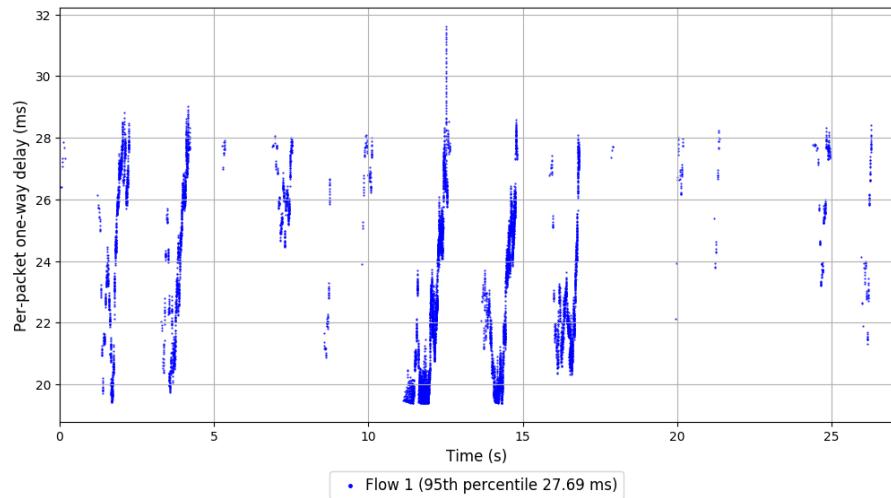
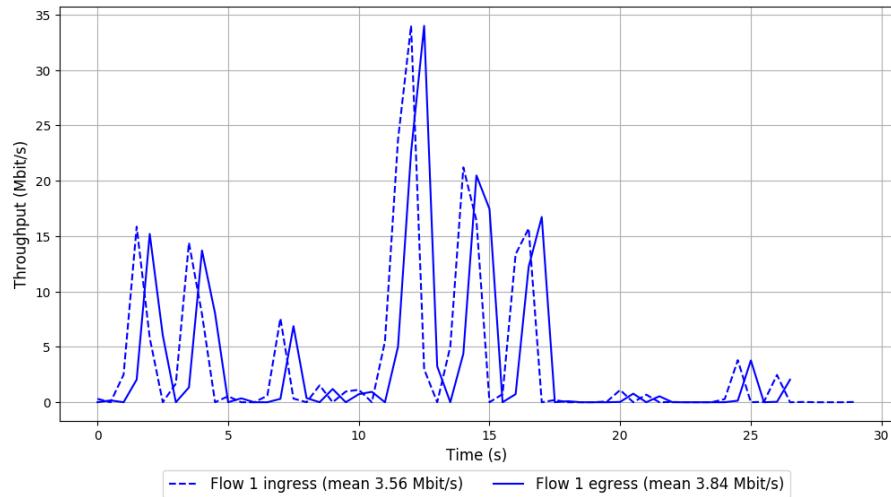


Run 4: Statistics of LEDBAT

```
Start at: 2019-02-20 06:44:22
End at: 2019-02-20 06:44:52
Local clock offset: 2.299 ms
Remote clock offset: -2.913 ms

# Below is generated by plot.py at 2019-02-20 07:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 27.691 ms
Loss rate: 3.32%
-- Flow 1:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 27.691 ms
Loss rate: 3.32%
```

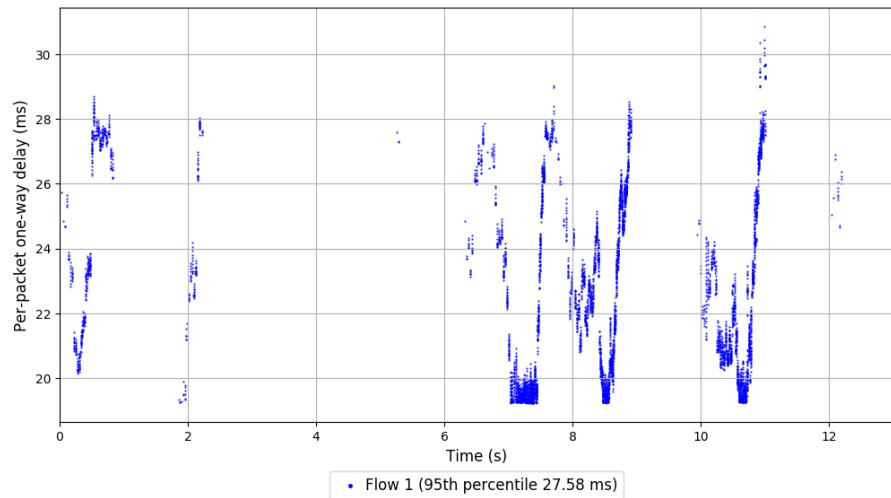
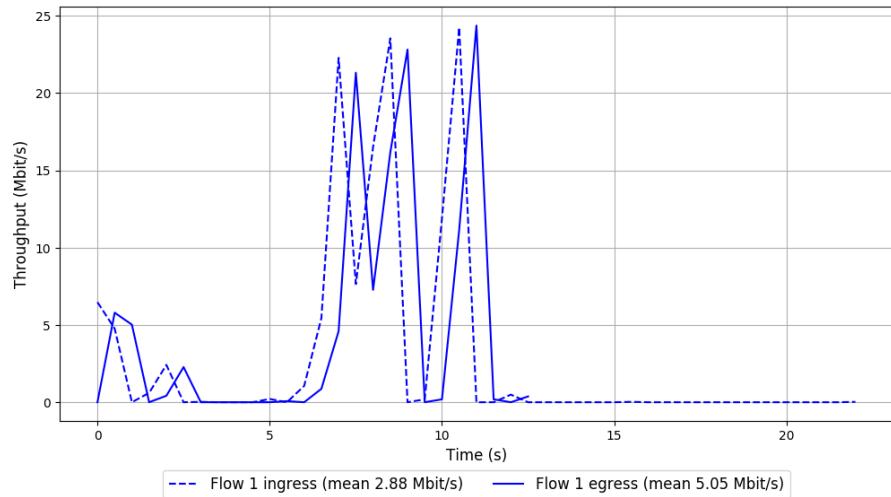
Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-02-20 07:12:28
End at: 2019-02-20 07:12:58
Local clock offset: 2.097 ms
Remote clock offset: -3.217 ms

Run 5: Report of LEDBAT — Data Link

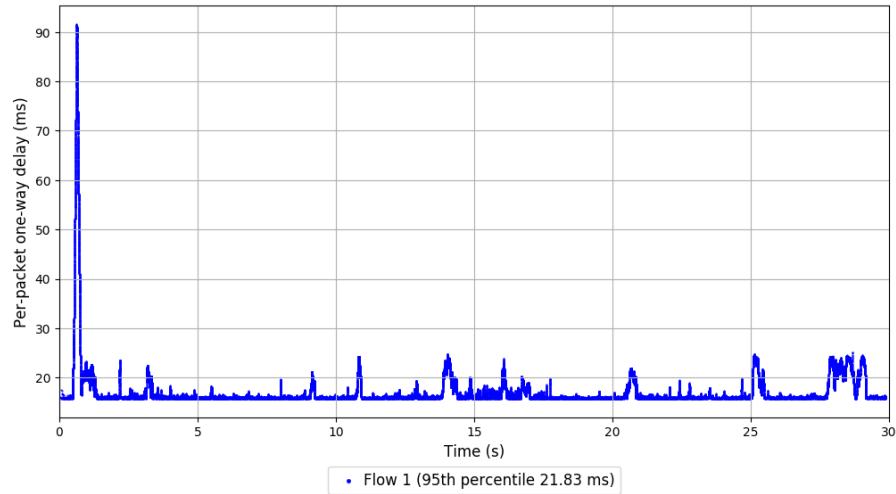
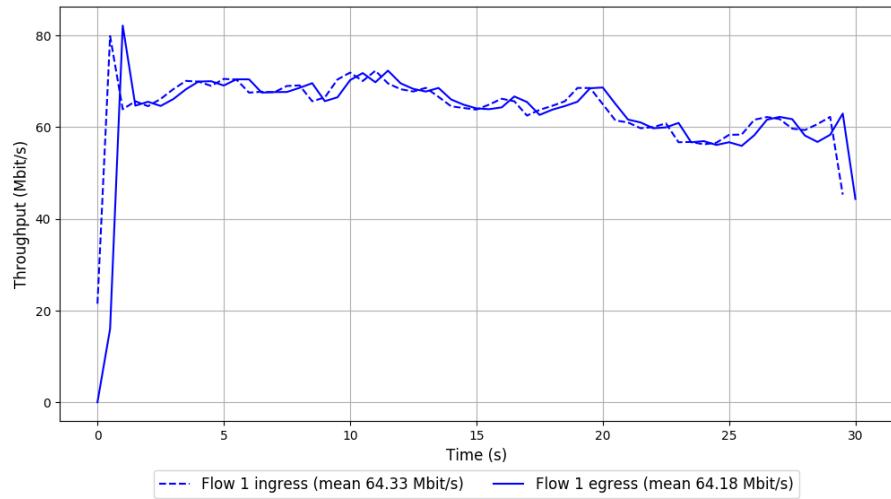


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-02-20 05:11:55
End at: 2019-02-20 05:12:25
Local clock offset: -0.955 ms
Remote clock offset: -4.123 ms

# Below is generated by plot.py at 2019-02-20 07:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.18 Mbit/s
95th percentile per-packet one-way delay: 21.829 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 64.18 Mbit/s
95th percentile per-packet one-way delay: 21.829 ms
Loss rate: 0.31%
```

Run 1: Report of PCC-Allegro — Data Link

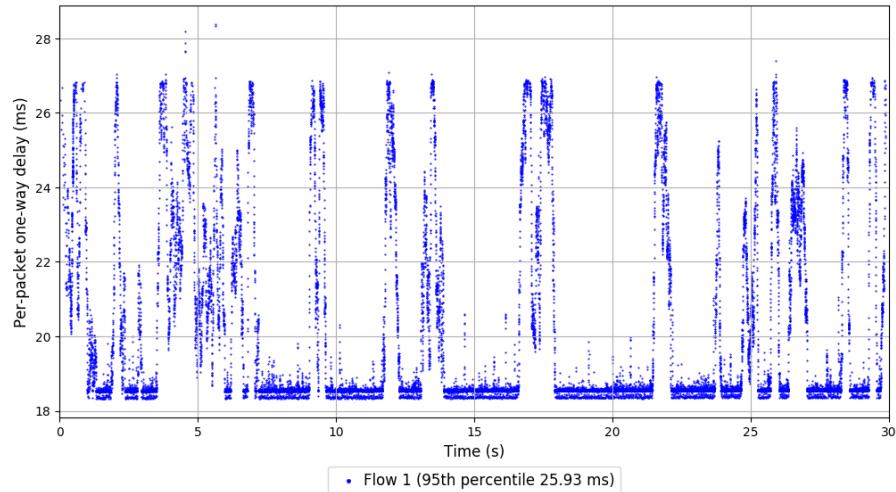
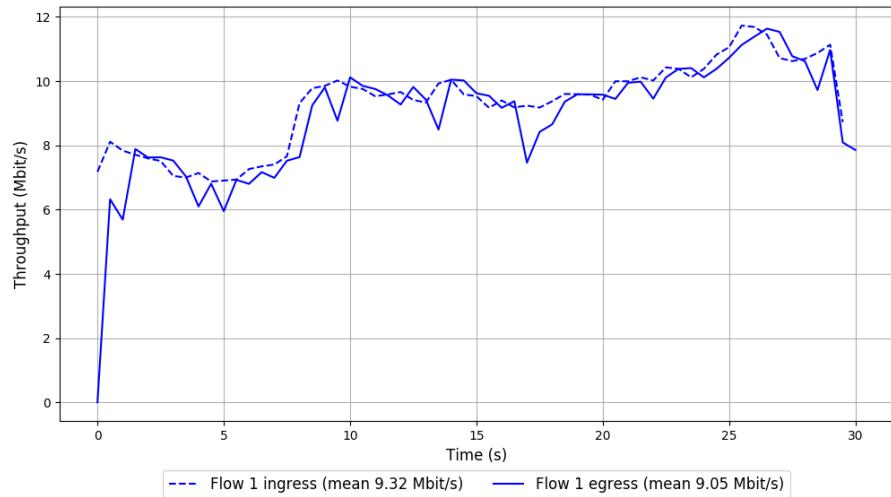


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-02-20 05:37:26
End at: 2019-02-20 05:37:56
Local clock offset: 1.613 ms
Remote clock offset: -3.206 ms

# Below is generated by plot.py at 2019-02-20 07:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.05 Mbit/s
95th percentile per-packet one-way delay: 25.925 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 9.05 Mbit/s
95th percentile per-packet one-way delay: 25.925 ms
Loss rate: 2.97%
```

Run 2: Report of PCC-Allegro — Data Link

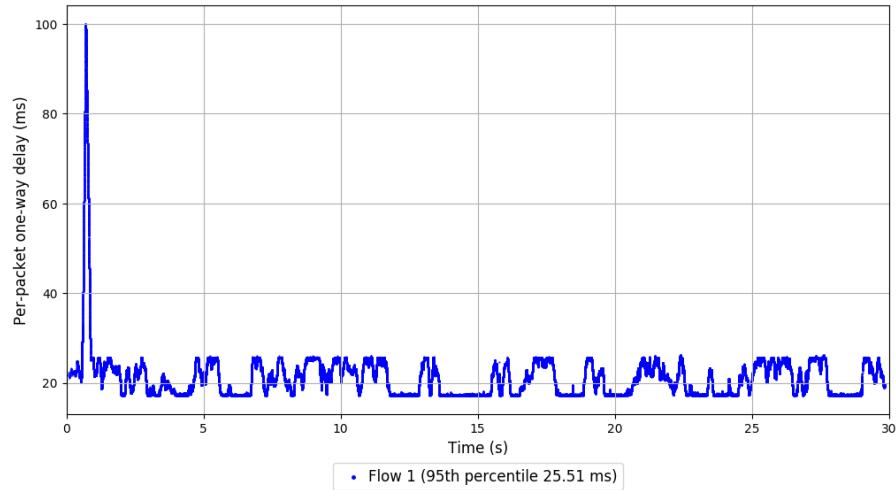
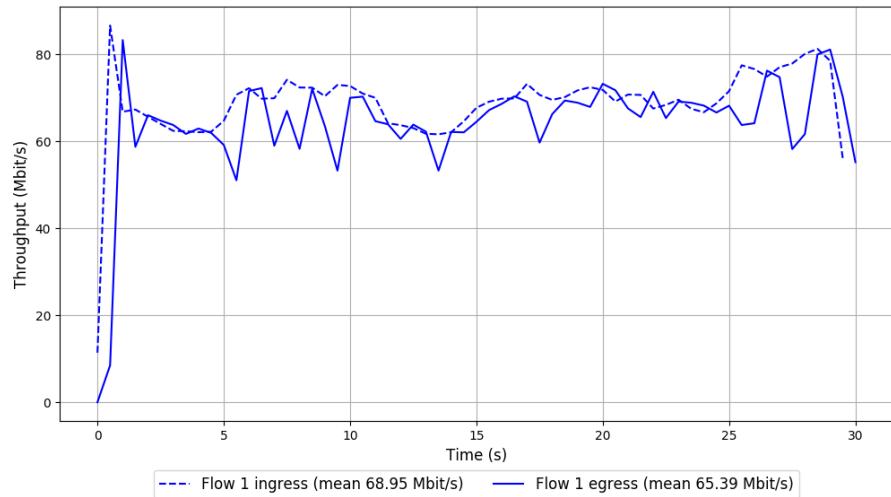


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-02-20 06:02:58
End at: 2019-02-20 06:03:28
Local clock offset: -0.183 ms
Remote clock offset: -2.733 ms

# Below is generated by plot.py at 2019-02-20 07:20:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.39 Mbit/s
95th percentile per-packet one-way delay: 25.506 ms
Loss rate: 5.26%
-- Flow 1:
Average throughput: 65.39 Mbit/s
95th percentile per-packet one-way delay: 25.506 ms
Loss rate: 5.26%
```

Run 3: Report of PCC-Allegro — Data Link

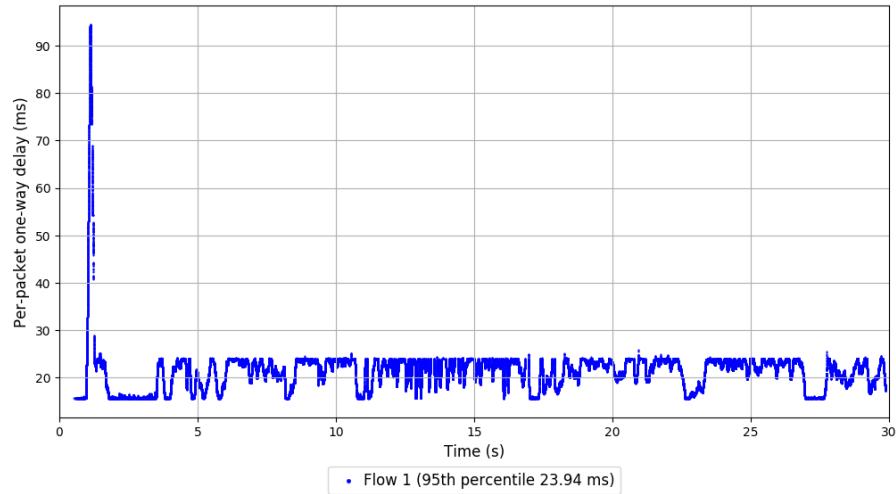
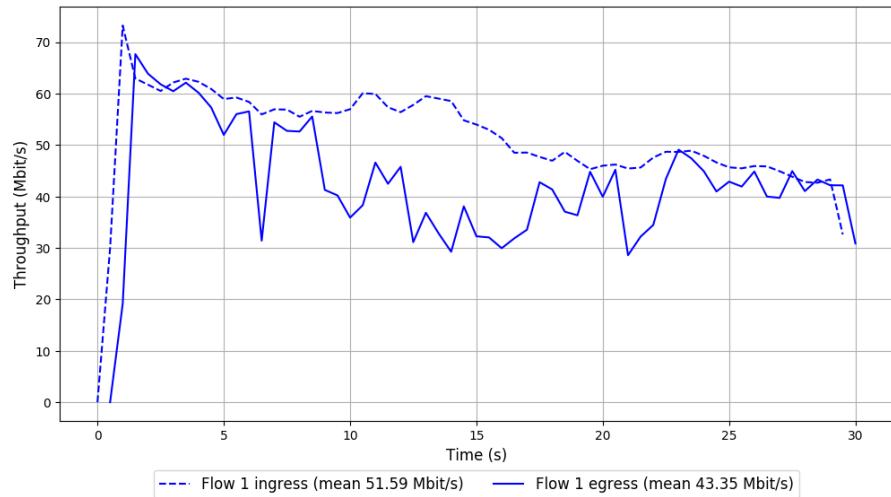


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-02-20 06:28:18
End at: 2019-02-20 06:28:48
Local clock offset: -2.962 ms
Remote clock offset: -3.015 ms

# Below is generated by plot.py at 2019-02-20 07:20:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.35 Mbit/s
95th percentile per-packet one-way delay: 23.943 ms
Loss rate: 17.48%
-- Flow 1:
Average throughput: 43.35 Mbit/s
95th percentile per-packet one-way delay: 23.943 ms
Loss rate: 17.48%
```

Run 4: Report of PCC-Allegro — Data Link

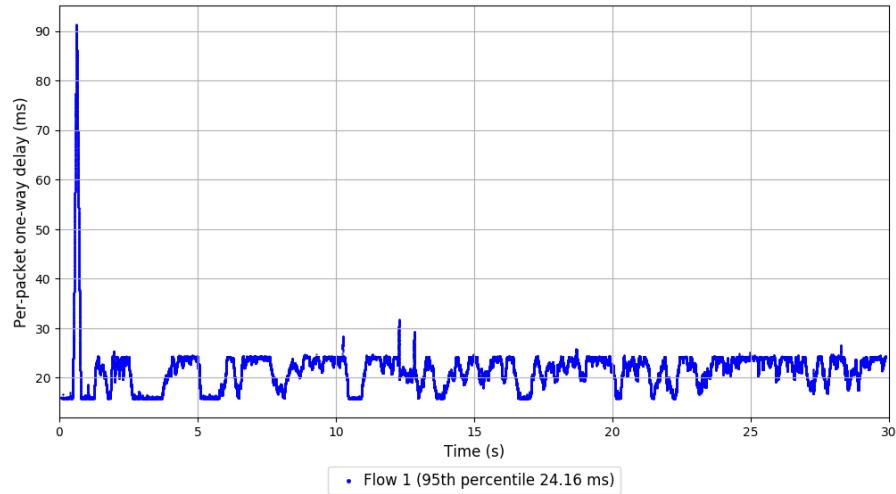
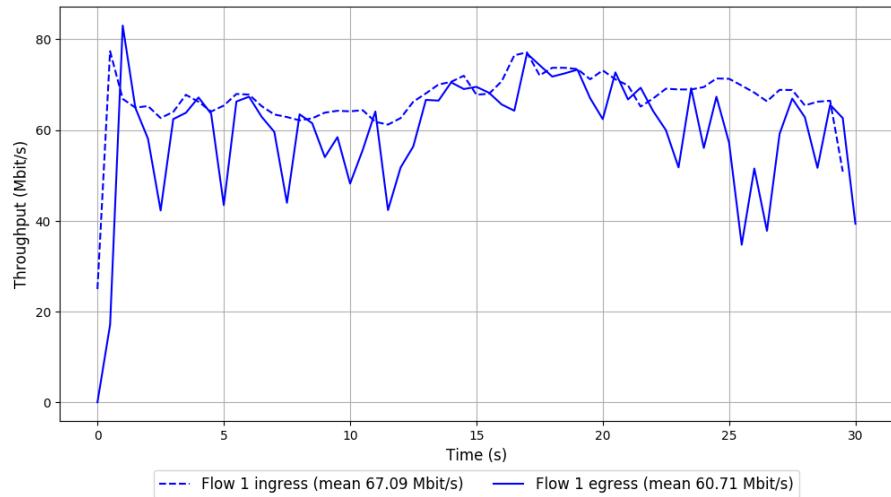


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-02-20 06:54:01
End at: 2019-02-20 06:54:31
Local clock offset: -0.971 ms
Remote clock offset: -2.91 ms

# Below is generated by plot.py at 2019-02-20 07:20:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.71 Mbit/s
95th percentile per-packet one-way delay: 24.155 ms
Loss rate: 9.59%
-- Flow 1:
Average throughput: 60.71 Mbit/s
95th percentile per-packet one-way delay: 24.155 ms
Loss rate: 9.59%
```

Run 5: Report of PCC-Allegro — Data Link

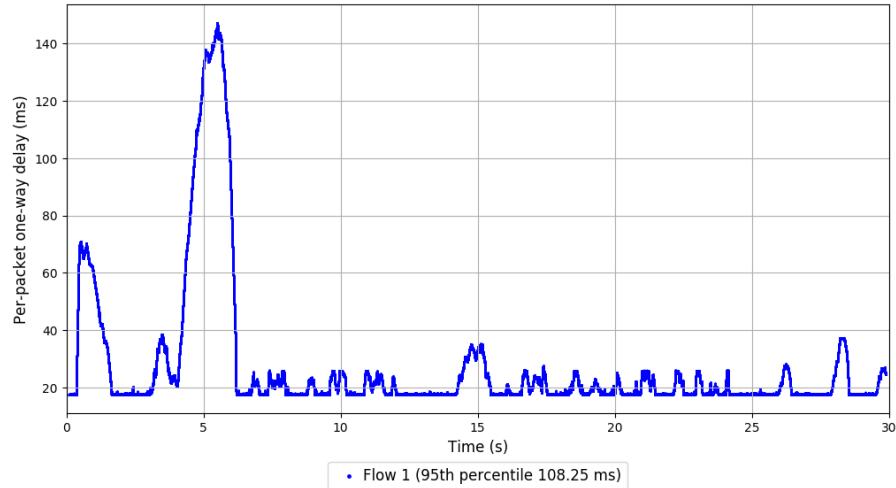
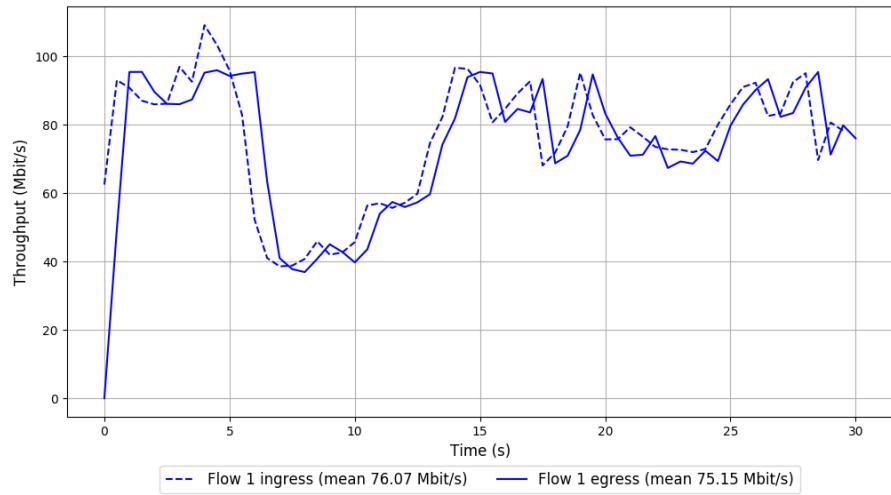


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-02-20 05:21:20
End at: 2019-02-20 05:21:50
Local clock offset: -0.792 ms
Remote clock offset: -5.358 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.15 Mbit/s
95th percentile per-packet one-way delay: 108.255 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 75.15 Mbit/s
95th percentile per-packet one-way delay: 108.255 ms
Loss rate: 1.29%
```

Run 1: Report of PCC-Expr — Data Link

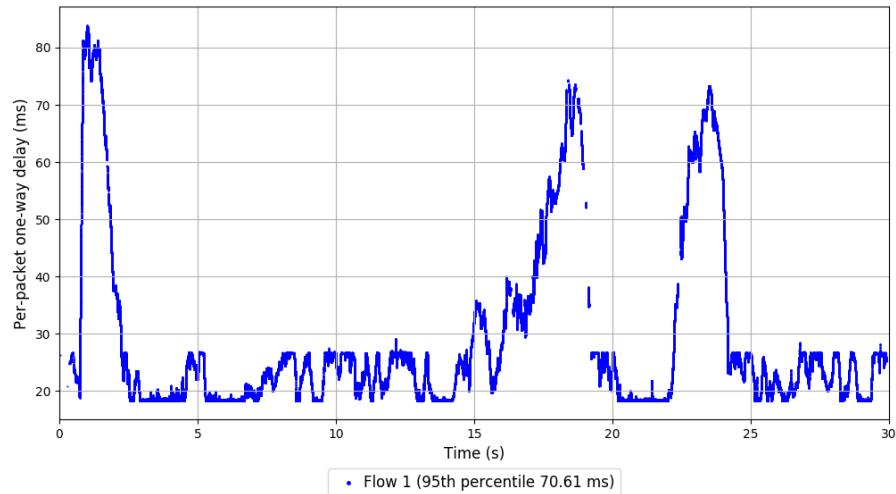
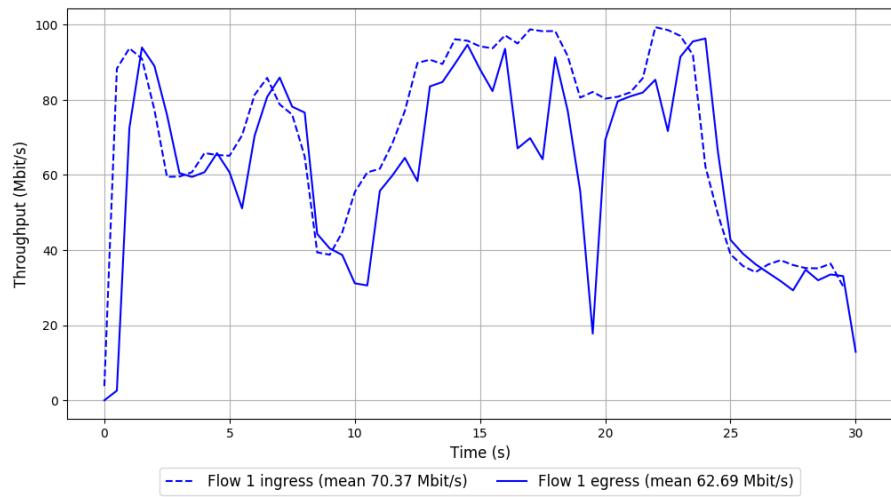


Run 2: Statistics of PCC-Expr

```
Start at: 2019-02-20 05:46:51
End at: 2019-02-20 05:47:21
Local clock offset: 0.759 ms
Remote clock offset: -3.394 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.69 Mbit/s
95th percentile per-packet one-way delay: 70.611 ms
Loss rate: 11.01%
-- Flow 1:
Average throughput: 62.69 Mbit/s
95th percentile per-packet one-way delay: 70.611 ms
Loss rate: 11.01%
```

Run 2: Report of PCC-Expr — Data Link

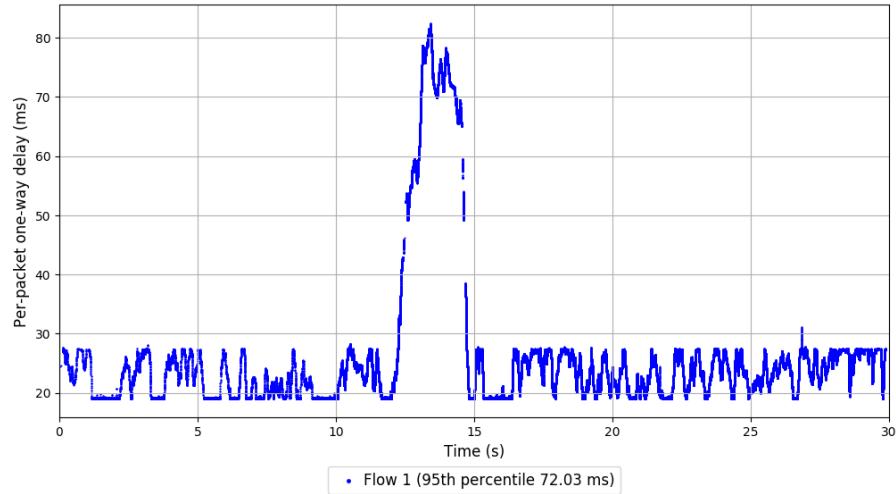
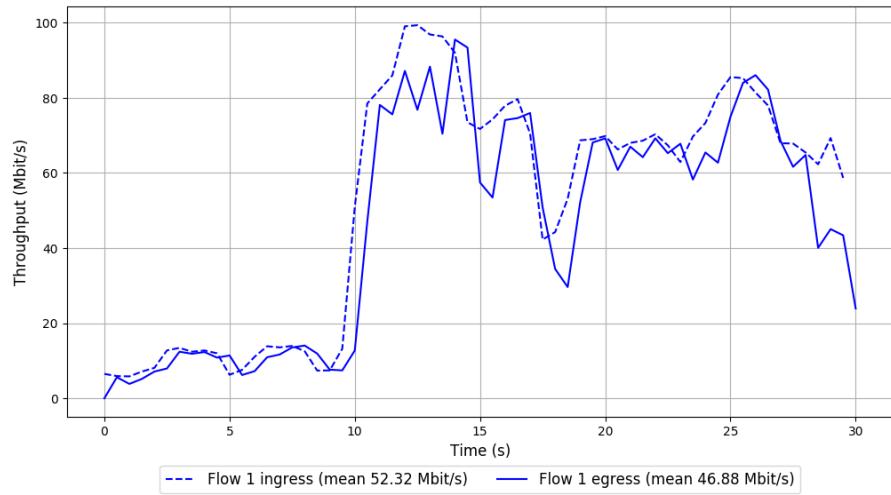


Run 3: Statistics of PCC-Expr

```
Start at: 2019-02-20 06:12:47
End at: 2019-02-20 06:13:17
Local clock offset: 0.212 ms
Remote clock offset: -3.78 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.88 Mbit/s
95th percentile per-packet one-way delay: 72.027 ms
Loss rate: 10.52%
-- Flow 1:
Average throughput: 46.88 Mbit/s
95th percentile per-packet one-way delay: 72.027 ms
Loss rate: 10.52%
```

Run 3: Report of PCC-Expr — Data Link

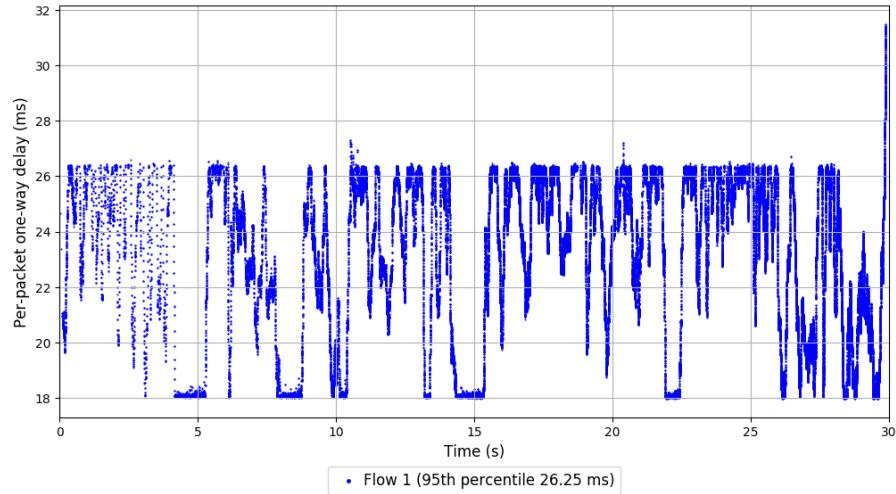
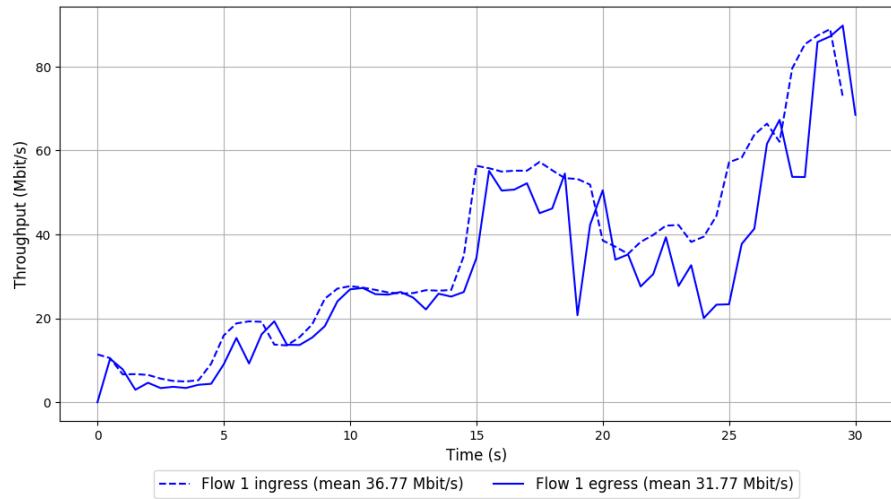


Run 4: Statistics of PCC-Expr

```
Start at: 2019-02-20 06:38:07
End at: 2019-02-20 06:38:37
Local clock offset: 1.245 ms
Remote clock offset: -2.296 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.77 Mbit/s
95th percentile per-packet one-way delay: 26.247 ms
Loss rate: 13.70%
-- Flow 1:
Average throughput: 31.77 Mbit/s
95th percentile per-packet one-way delay: 26.247 ms
Loss rate: 13.70%
```

Run 4: Report of PCC-Expr — Data Link

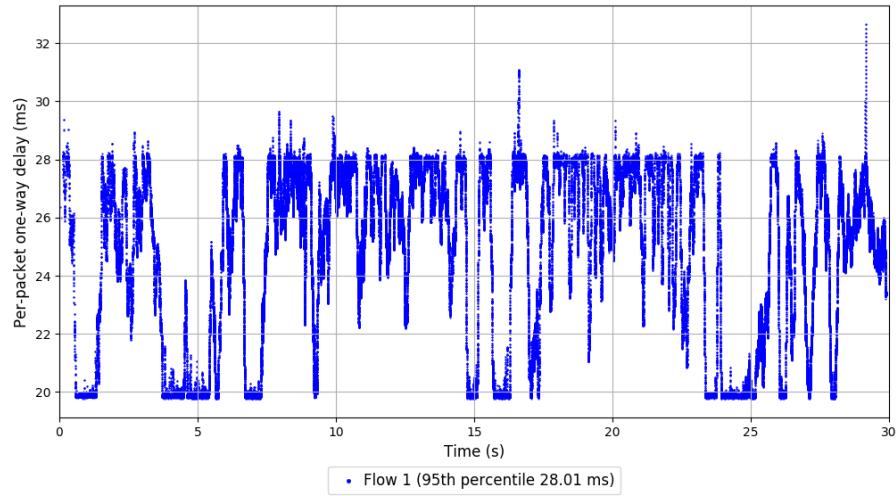
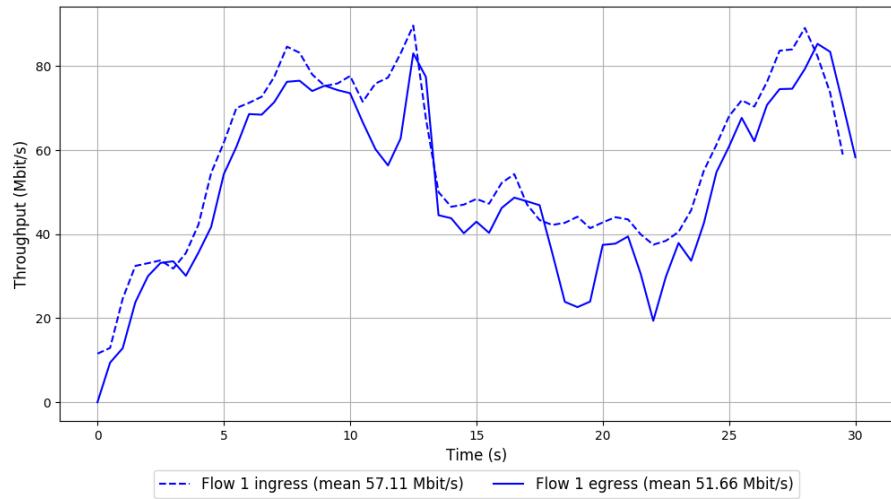


Run 5: Statistics of PCC-Expr

```
Start at: 2019-02-20 07:05:13
End at: 2019-02-20 07:05:43
Local clock offset: 1.674 ms
Remote clock offset: -4.23 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.66 Mbit/s
95th percentile per-packet one-way delay: 28.014 ms
Loss rate: 9.64%
-- Flow 1:
Average throughput: 51.66 Mbit/s
95th percentile per-packet one-way delay: 28.014 ms
Loss rate: 9.64%
```

Run 5: Report of PCC-Expr — Data Link

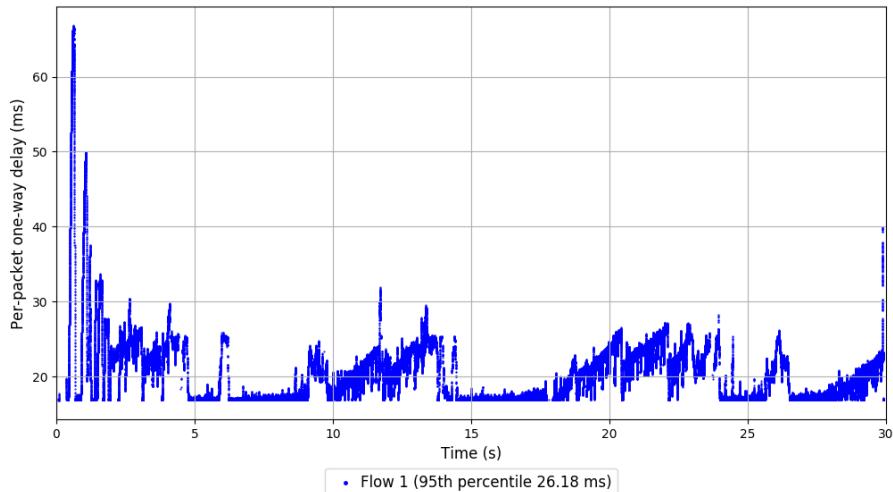
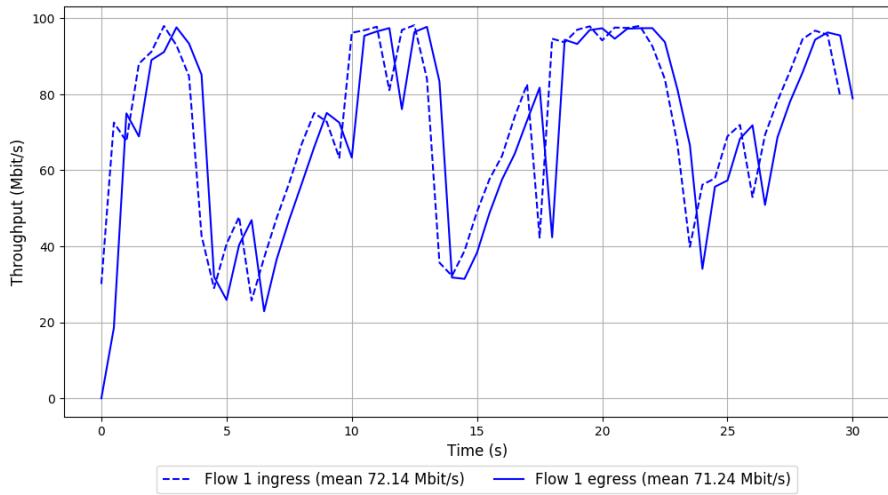


Run 1: Statistics of QUIC Cubic

```
Start at: 2019-02-20 05:13:05
End at: 2019-02-20 05:13:35
Local clock offset: -0.05 ms
Remote clock offset: -4.192 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.24 Mbit/s
95th percentile per-packet one-way delay: 26.177 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 71.24 Mbit/s
95th percentile per-packet one-way delay: 26.177 ms
Loss rate: 1.33%
```

Run 1: Report of QUIC Cubic — Data Link

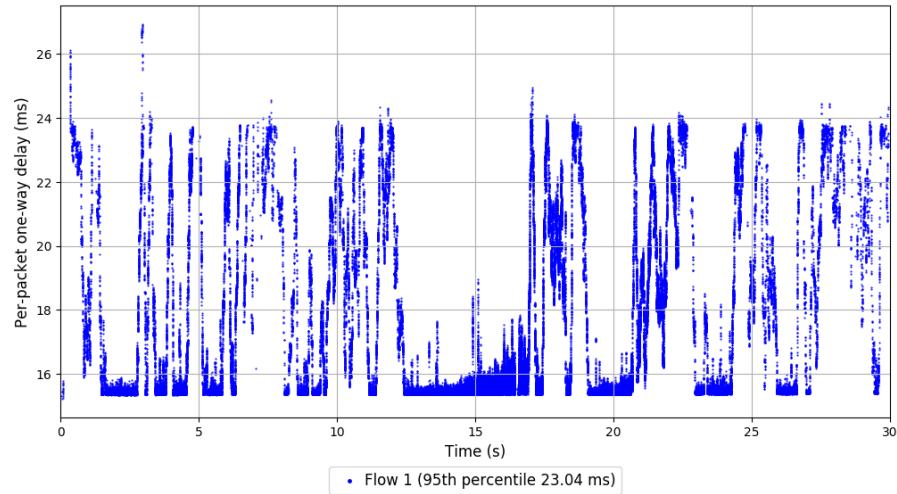
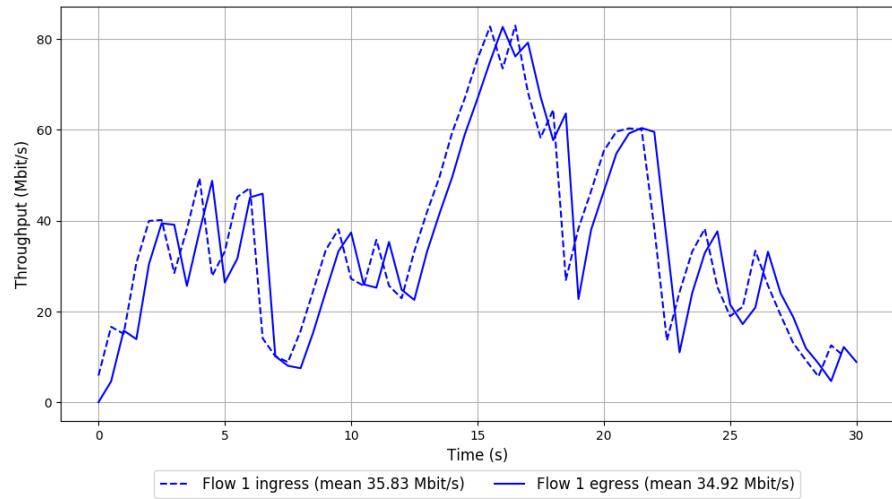


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-02-20 05:38:33
End at: 2019-02-20 05:39:03
Local clock offset: -2.045 ms
Remote clock offset: -3.661 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.92 Mbit/s
95th percentile per-packet one-way delay: 23.037 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 34.92 Mbit/s
95th percentile per-packet one-way delay: 23.037 ms
Loss rate: 2.61%
```

Run 2: Report of QUIC Cubic — Data Link

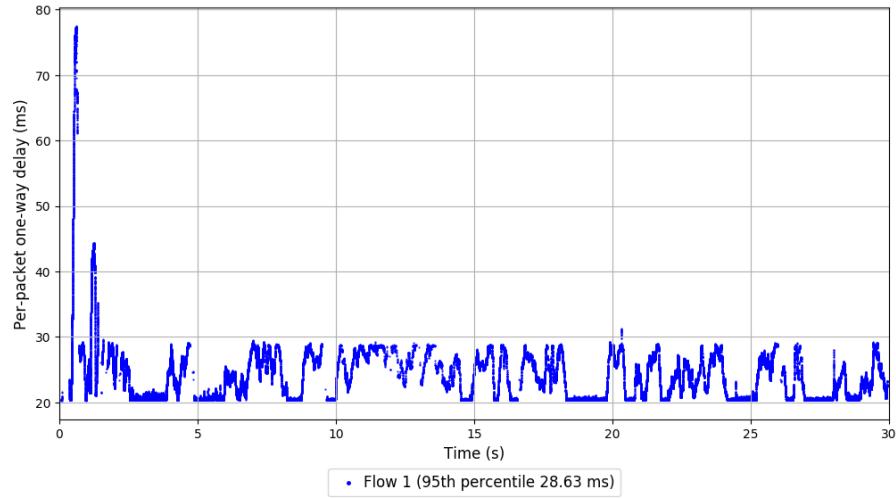
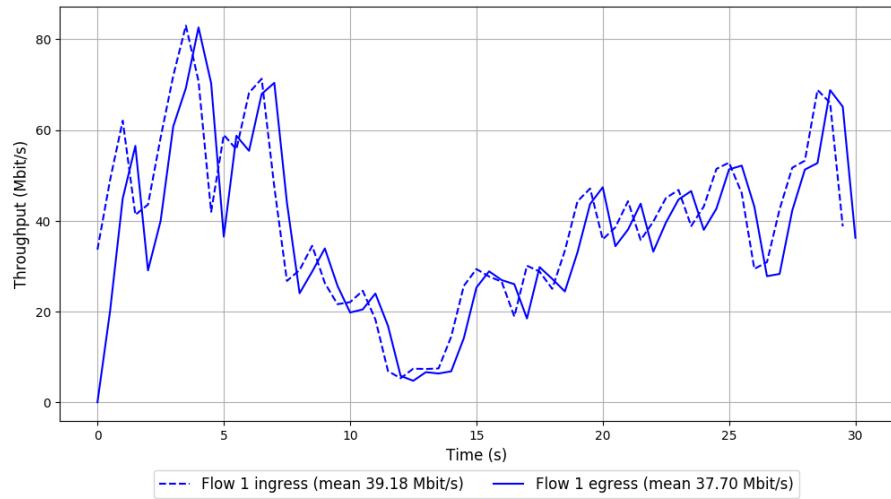


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-02-20 06:04:14
End at: 2019-02-20 06:04:44
Local clock offset: 1.502 ms
Remote clock offset: -4.113 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.70 Mbit/s
95th percentile per-packet one-way delay: 28.631 ms
Loss rate: 3.85%
-- Flow 1:
Average throughput: 37.70 Mbit/s
95th percentile per-packet one-way delay: 28.631 ms
Loss rate: 3.85%
```

Run 3: Report of QUIC Cubic — Data Link

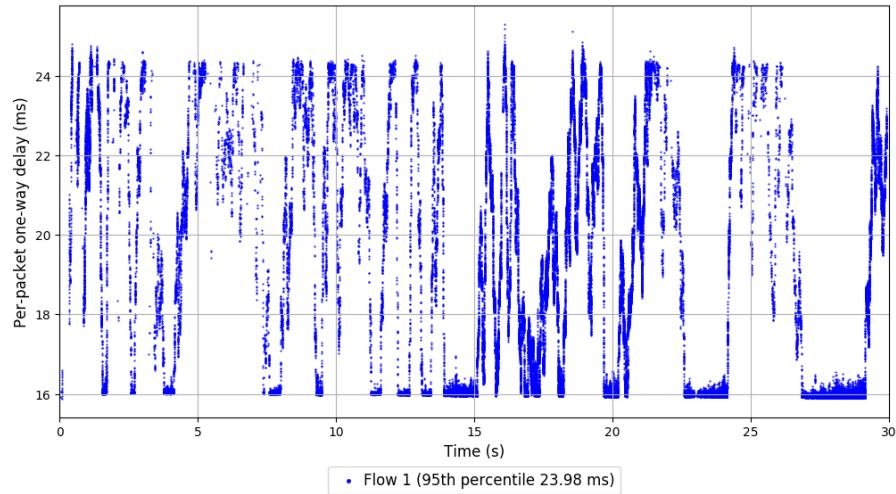
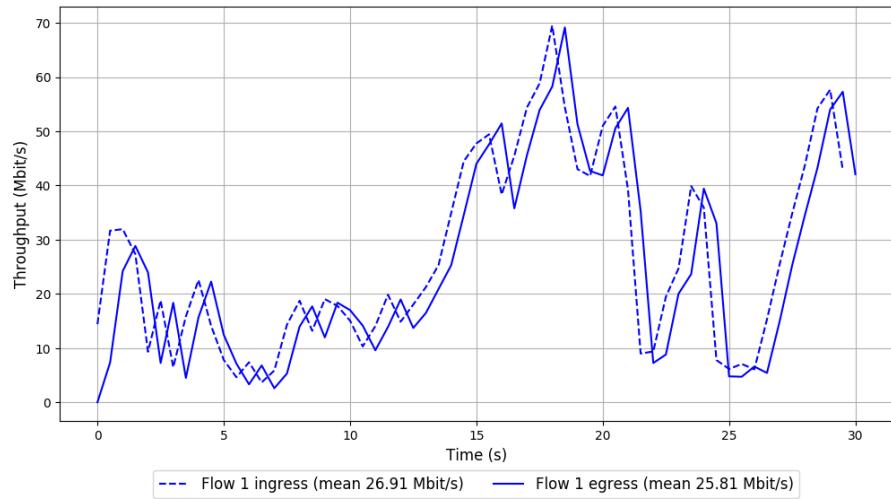


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-02-20 06:29:29
End at: 2019-02-20 06:29:59
Local clock offset: -3.037 ms
Remote clock offset: -3.364 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.81 Mbit/s
95th percentile per-packet one-way delay: 23.975 ms
Loss rate: 4.15%
-- Flow 1:
Average throughput: 25.81 Mbit/s
95th percentile per-packet one-way delay: 23.975 ms
Loss rate: 4.15%
```

Run 4: Report of QUIC Cubic — Data Link

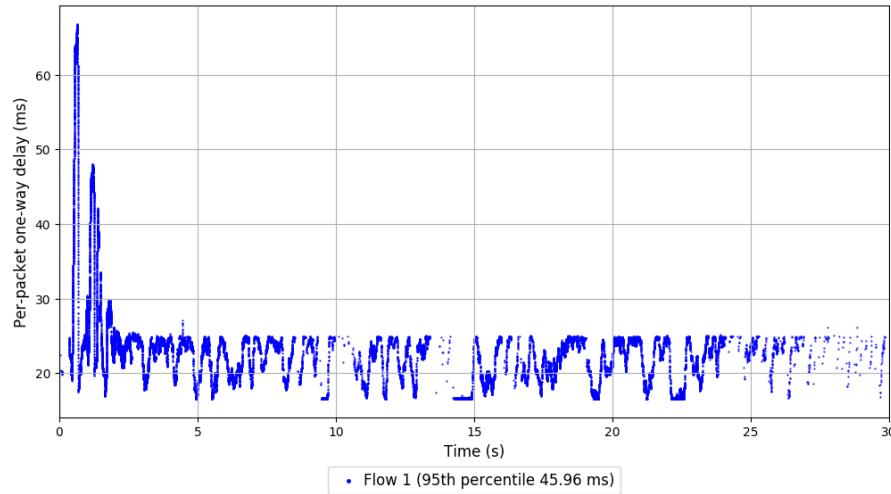
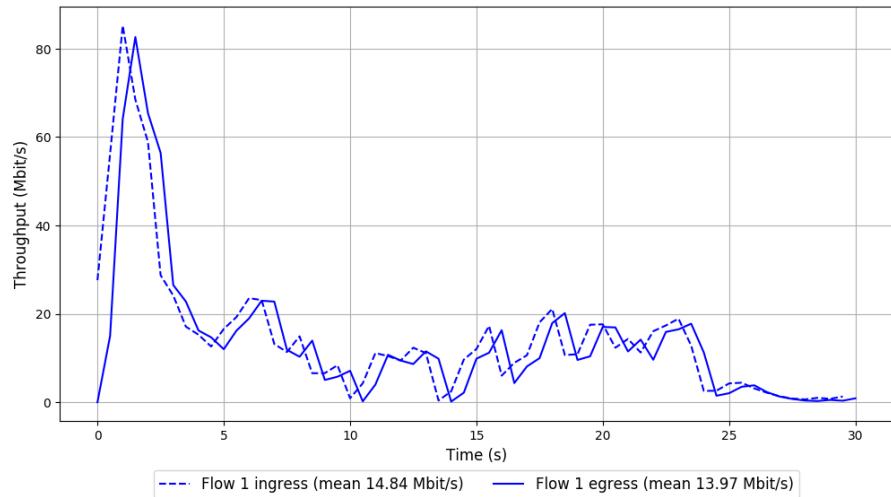


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-02-20 06:55:15
End at: 2019-02-20 06:55:45
Local clock offset: -1.264 ms
Remote clock offset: -3.891 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.97 Mbit/s
95th percentile per-packet one-way delay: 45.963 ms
Loss rate: 6.22%
-- Flow 1:
Average throughput: 13.97 Mbit/s
95th percentile per-packet one-way delay: 45.963 ms
Loss rate: 6.22%
```

Run 5: Report of QUIC Cubic — Data Link

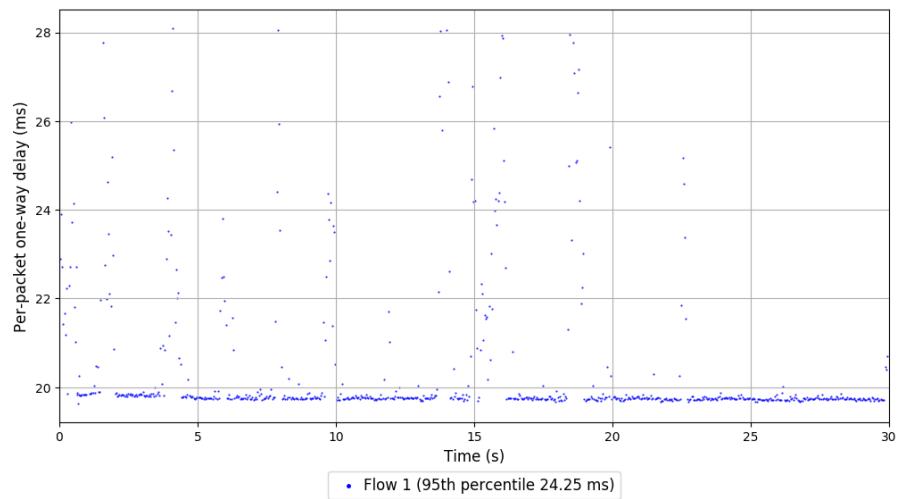
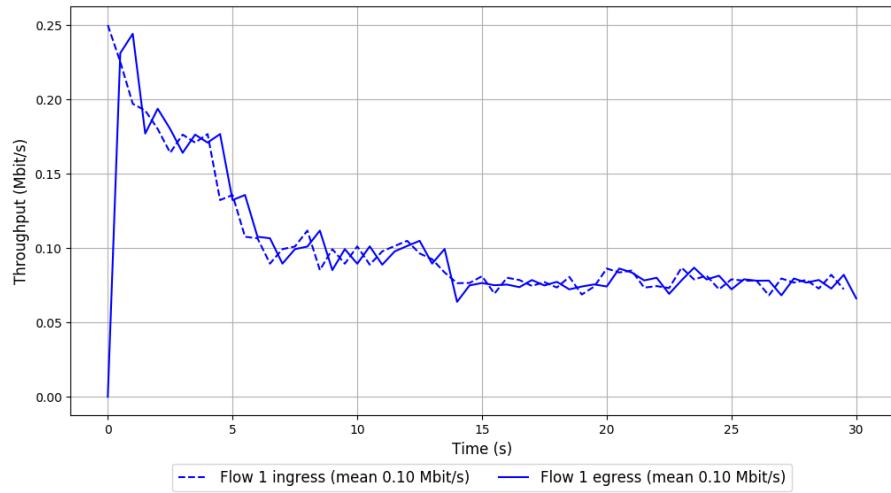


```
Run 1: Statistics of SCReAM

Start at: 2019-02-20 05:04:34
End at: 2019-02-20 05:05:04
Local clock offset: 1.706 ms
Remote clock offset: -5.316 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 24.251 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 24.251 ms
Loss rate: 0.86%
```

Run 1: Report of SCReAM — Data Link

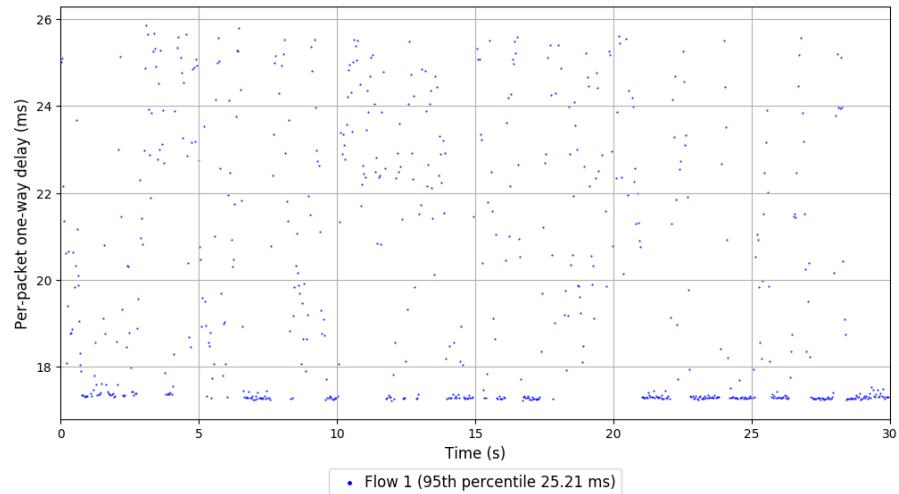
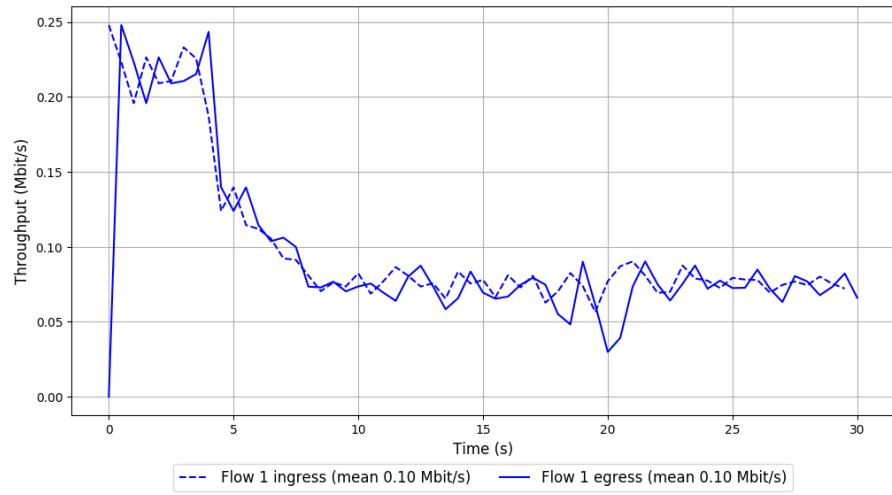


Run 2: Statistics of SCReAM

```
Start at: 2019-02-20 05:30:11
End at: 2019-02-20 05:30:41
Local clock offset: -0.0 ms
Remote clock offset: -4.012 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 25.208 ms
Loss rate: 4.55%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 25.208 ms
Loss rate: 4.55%
```

Run 2: Report of SCReAM — Data Link

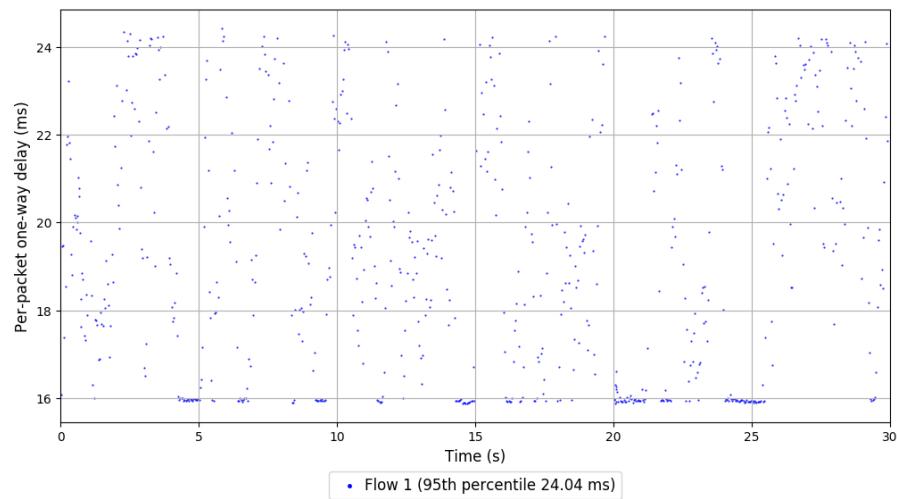
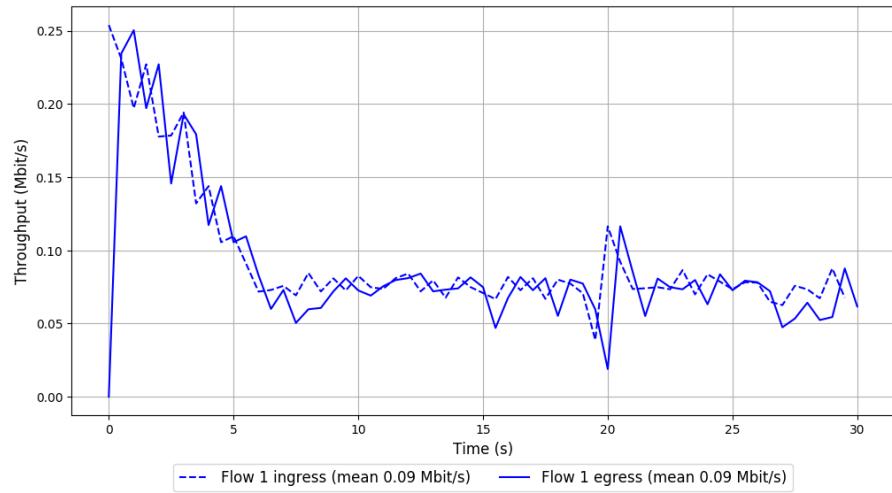


Run 3: Statistics of SCReAM

```
Start at: 2019-02-20 05:55:40
End at: 2019-02-20 05:56:10
Local clock offset: -1.939 ms
Remote clock offset: -3.372 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 24.036 ms
Loss rate: 5.54%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 24.036 ms
Loss rate: 5.54%
```

Run 3: Report of SCReAM — Data Link

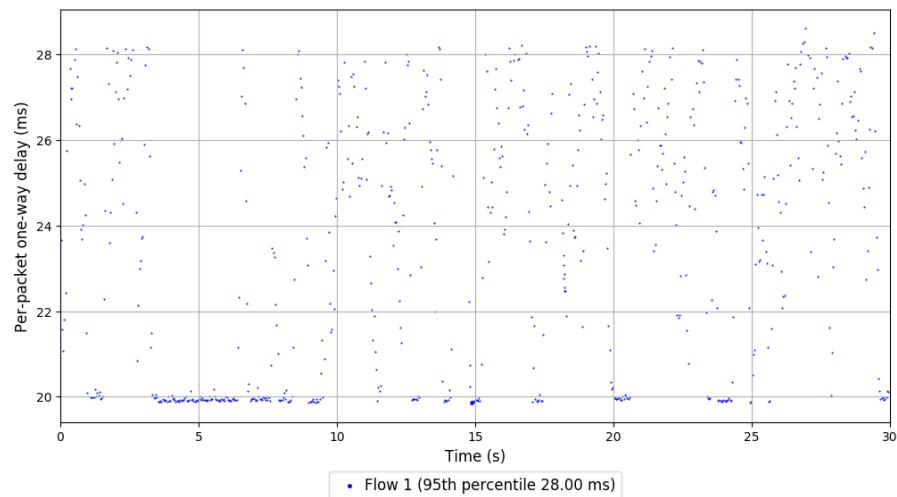
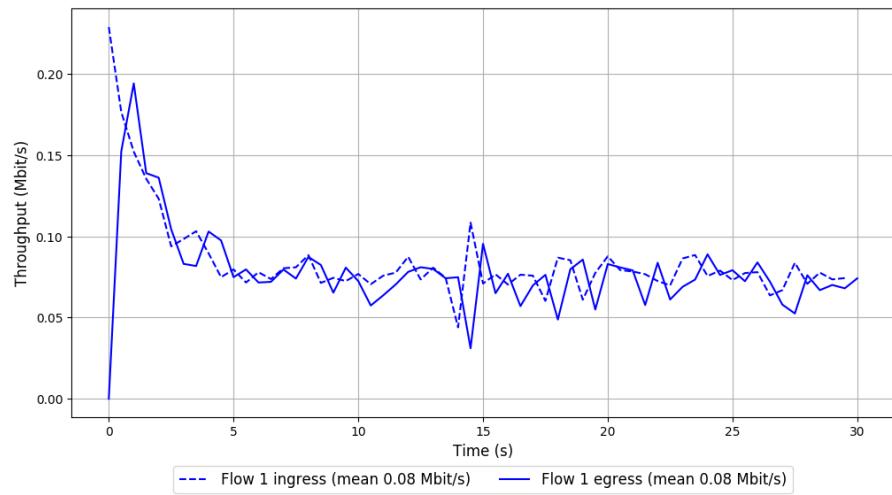


Run 4: Statistics of SCReAM

```
Start at: 2019-02-20 06:21:09
End at: 2019-02-20 06:21:39
Local clock offset: 0.723 ms
Remote clock offset: -3.855 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 28.005 ms
Loss rate: 6.13%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 28.005 ms
Loss rate: 6.13%
```

Run 4: Report of SCReAM — Data Link

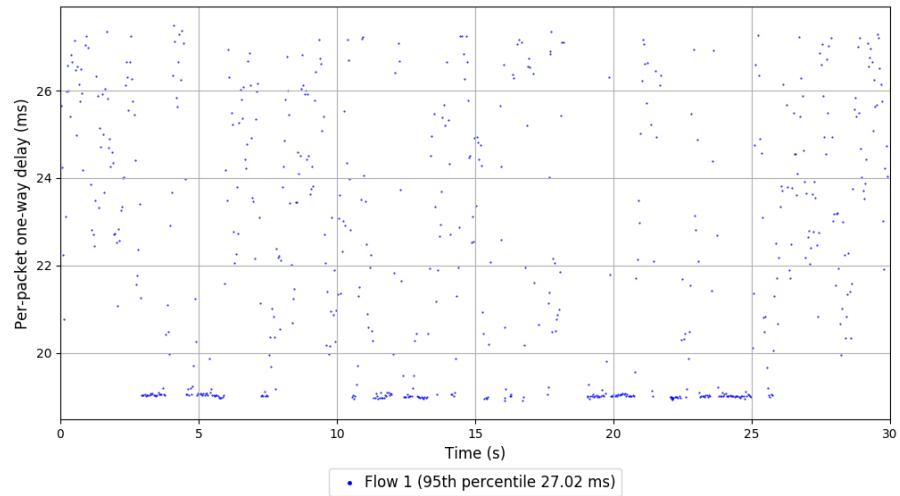
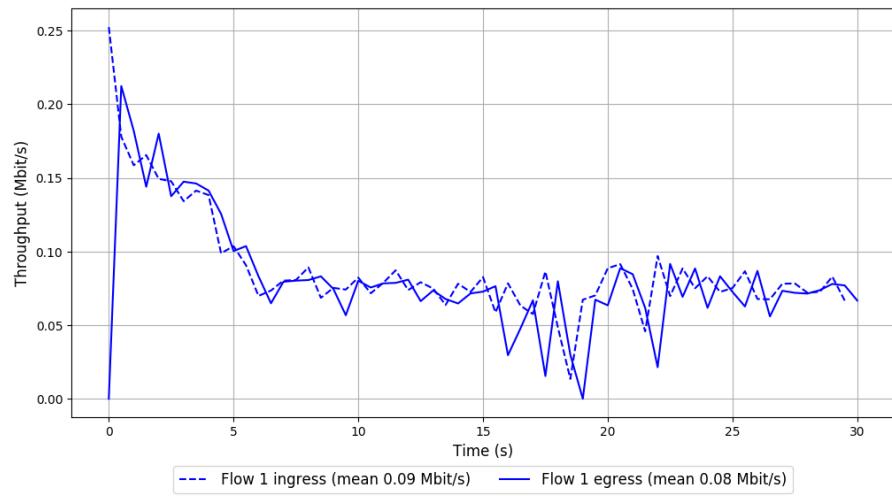


Run 5: Statistics of SCReAM

```
Start at: 2019-02-20 06:46:37
End at: 2019-02-20 06:47:07
Local clock offset: 2.366 ms
Remote clock offset: -2.552 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 27.017 ms
Loss rate: 6.46%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 27.017 ms
Loss rate: 6.46%
```

Run 5: Report of SCReAM — Data Link

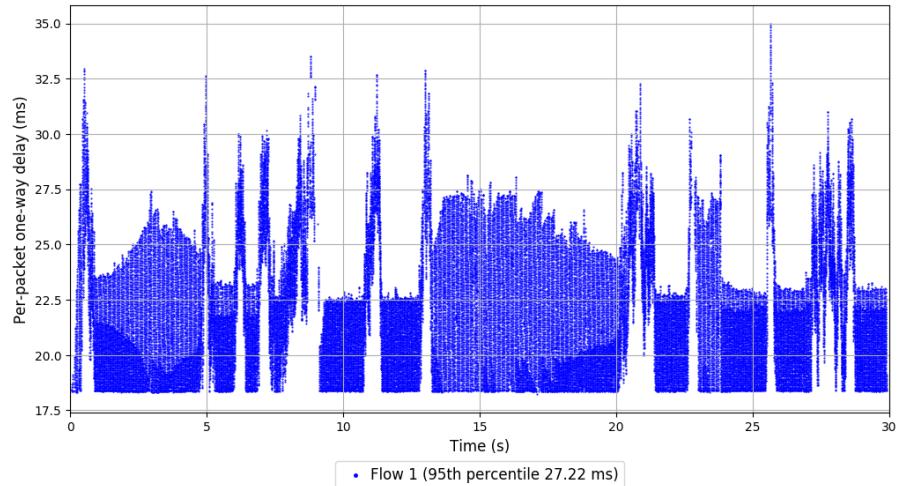
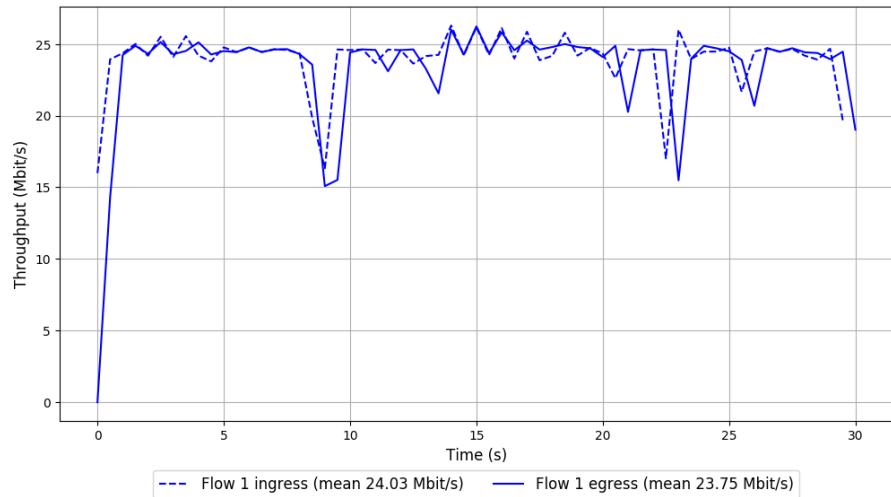


Run 1: Statistics of Sprout

```
Start at: 2019-02-20 05:22:43
End at: 2019-02-20 05:23:13
Local clock offset: 2.332 ms
Remote clock offset: -2.933 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 27.218 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 27.218 ms
Loss rate: 1.23%
```

Run 1: Report of Sprout — Data Link

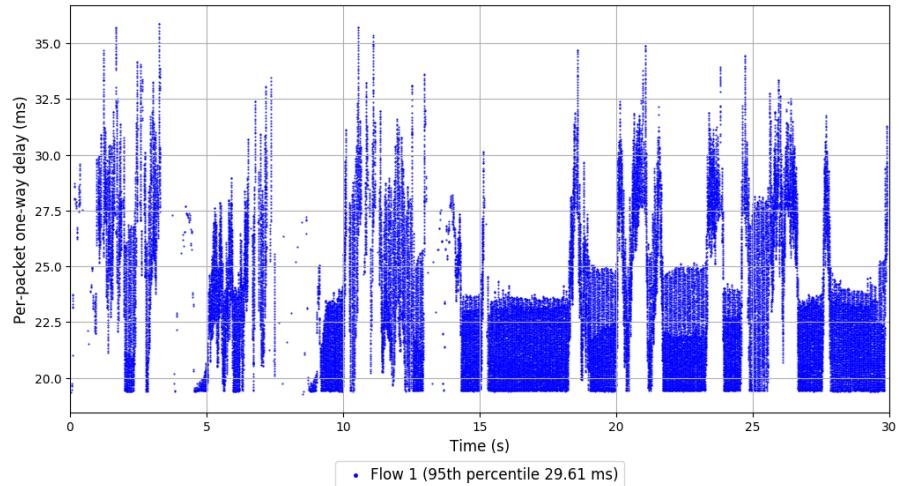
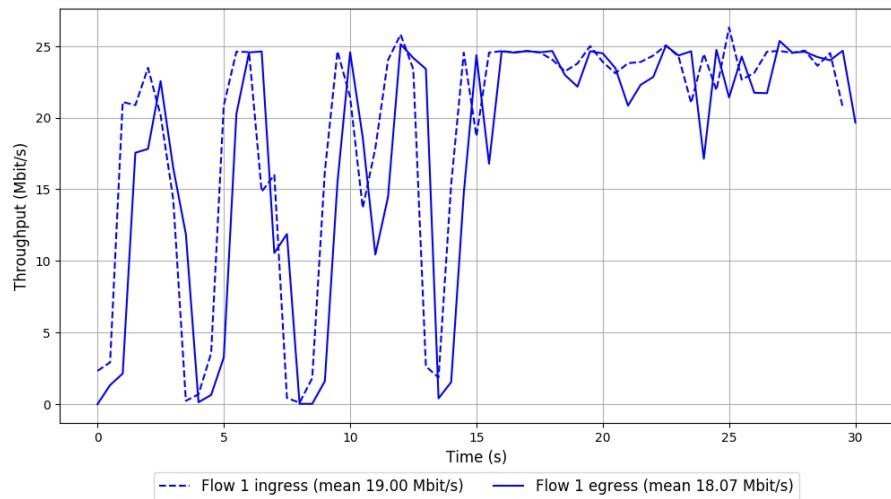


Run 2: Statistics of Sprout

```
Start at: 2019-02-20 05:48:21
End at: 2019-02-20 05:48:51
Local clock offset: 1.445 ms
Remote clock offset: -3.685 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.07 Mbit/s
95th percentile per-packet one-way delay: 29.605 ms
Loss rate: 5.01%
-- Flow 1:
Average throughput: 18.07 Mbit/s
95th percentile per-packet one-way delay: 29.605 ms
Loss rate: 5.01%
```

Run 2: Report of Sprout — Data Link

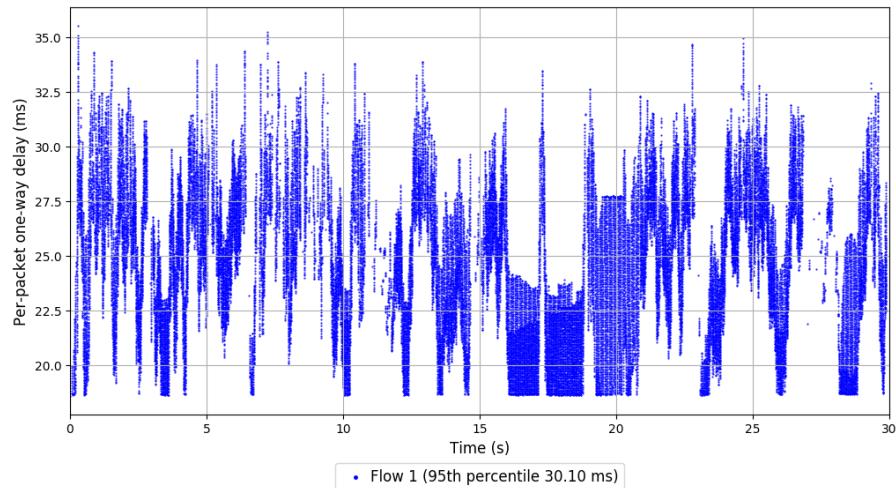
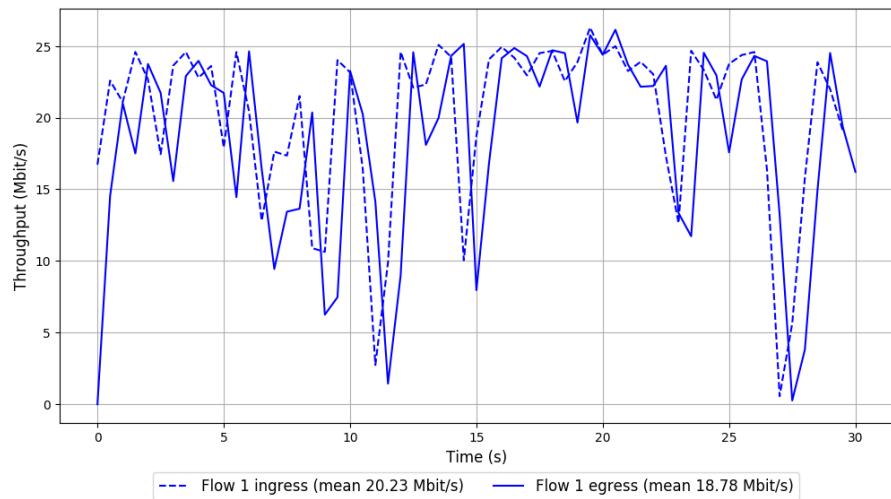


Run 3: Statistics of Sprout

```
Start at: 2019-02-20 06:14:01
End at: 2019-02-20 06:14:31
Local clock offset: 0.182 ms
Remote clock offset: -3.31 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.78 Mbit/s
95th percentile per-packet one-way delay: 30.101 ms
Loss rate: 7.27%
-- Flow 1:
Average throughput: 18.78 Mbit/s
95th percentile per-packet one-way delay: 30.101 ms
Loss rate: 7.27%
```

Run 3: Report of Sprout — Data Link

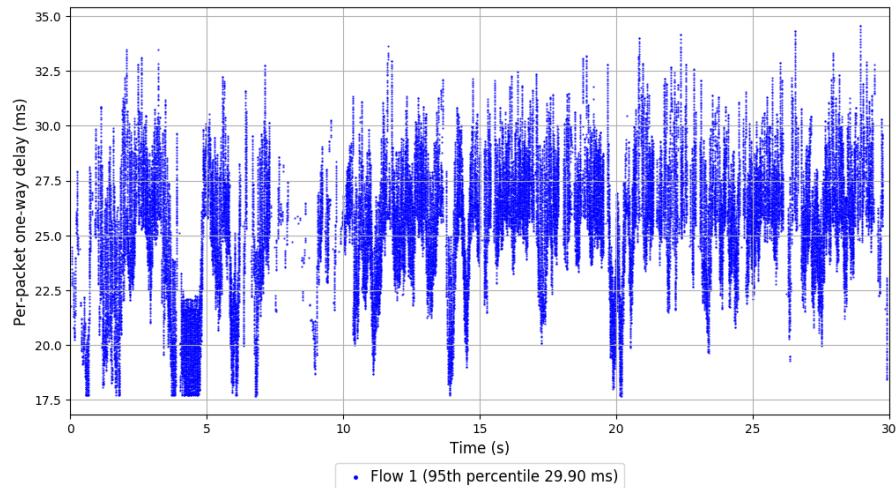
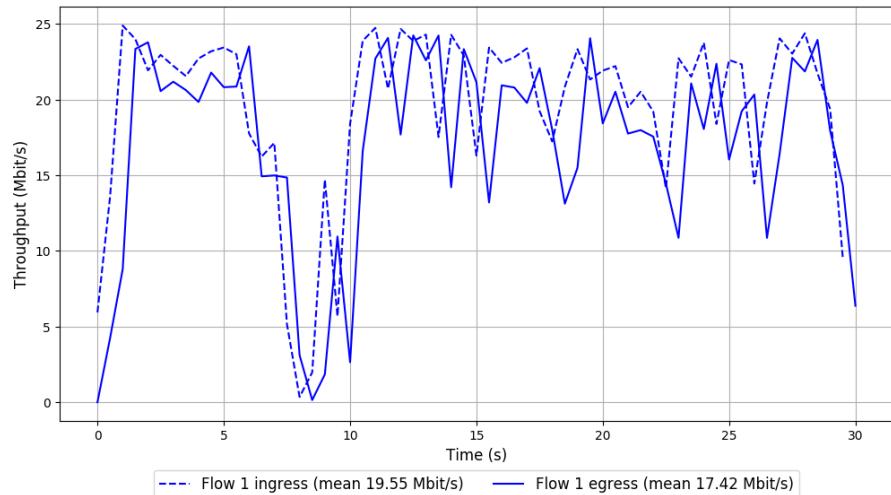


Run 4: Statistics of Sprout

```
Start at: 2019-02-20 06:39:23
End at: 2019-02-20 06:39:53
Local clock offset: 0.249 ms
Remote clock offset: -2.961 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.42 Mbit/s
95th percentile per-packet one-way delay: 29.899 ms
Loss rate: 11.03%
-- Flow 1:
Average throughput: 17.42 Mbit/s
95th percentile per-packet one-way delay: 29.899 ms
Loss rate: 11.03%
```

Run 4: Report of Sprout — Data Link

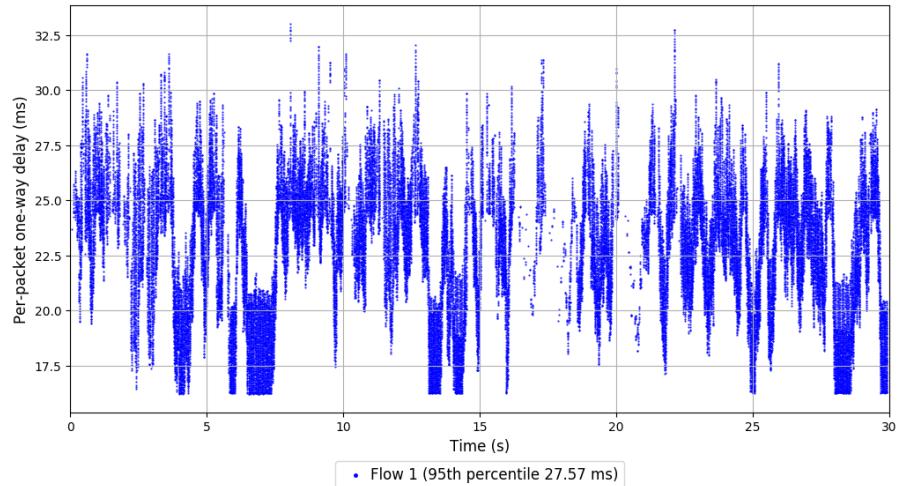
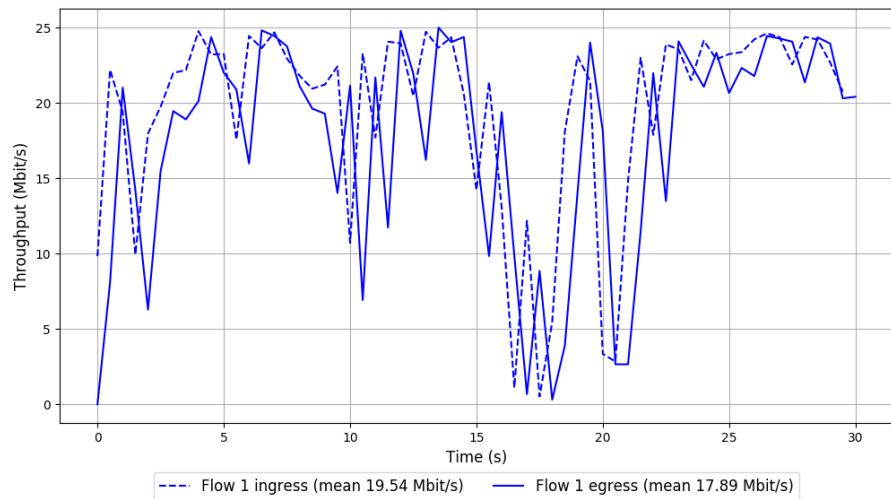


Run 5: Statistics of Sprout

```
Start at: 2019-02-20 07:07:13
End at: 2019-02-20 07:07:43
Local clock offset: -0.38 ms
Remote clock offset: -2.658 ms

# Below is generated by plot.py at 2019-02-20 07:22:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.89 Mbit/s
95th percentile per-packet one-way delay: 27.575 ms
Loss rate: 8.69%
-- Flow 1:
Average throughput: 17.89 Mbit/s
95th percentile per-packet one-way delay: 27.575 ms
Loss rate: 8.69%
```

Run 5: Report of Sprout — Data Link

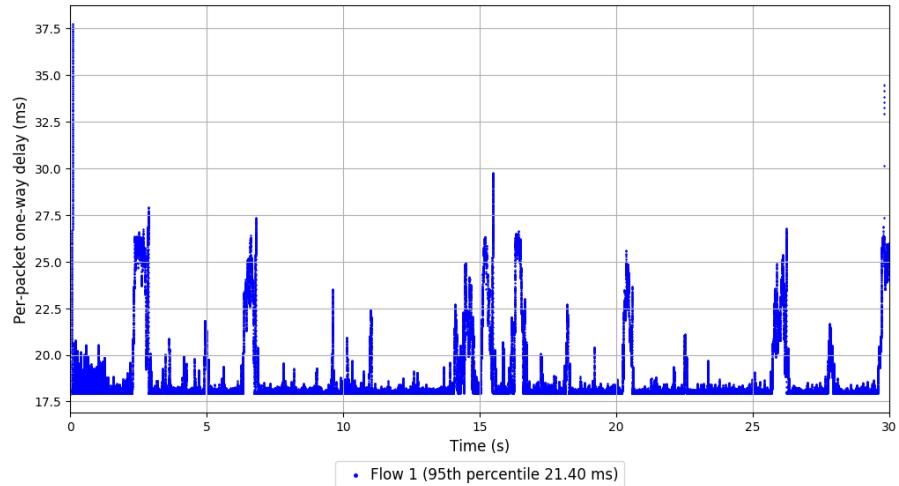
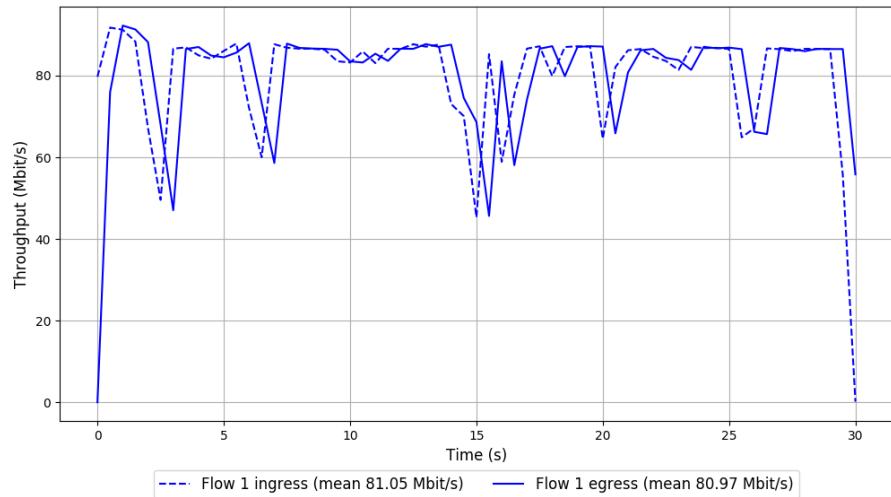


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-02-20 05:18:53
End at: 2019-02-20 05:19:23
Local clock offset: 0.432 ms
Remote clock offset: -4.595 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.97 Mbit/s
95th percentile per-packet one-way delay: 21.403 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 80.97 Mbit/s
95th percentile per-packet one-way delay: 21.403 ms
Loss rate: 0.18%
```

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

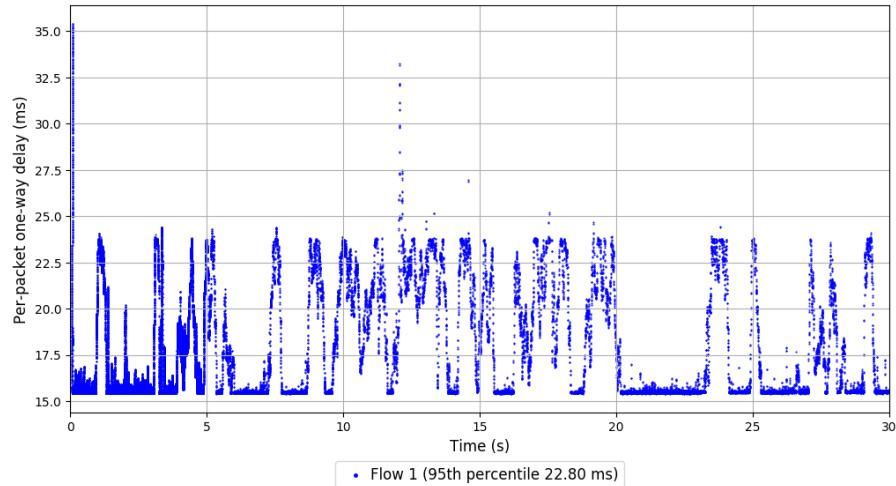
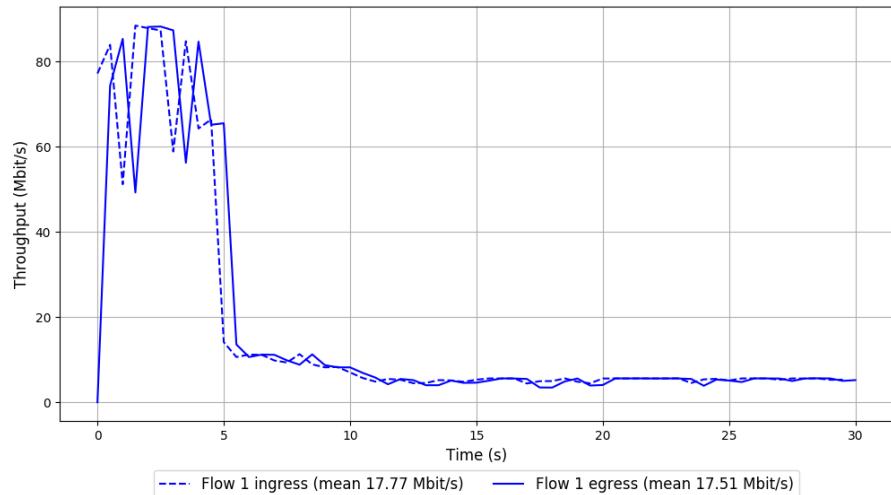


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-02-20 05:44:35
End at: 2019-02-20 05:45:05
Local clock offset: -2.268 ms
Remote clock offset: -3.656 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.51 Mbit/s
95th percentile per-packet one-way delay: 22.802 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 17.51 Mbit/s
95th percentile per-packet one-way delay: 22.802 ms
Loss rate: 1.54%
```

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

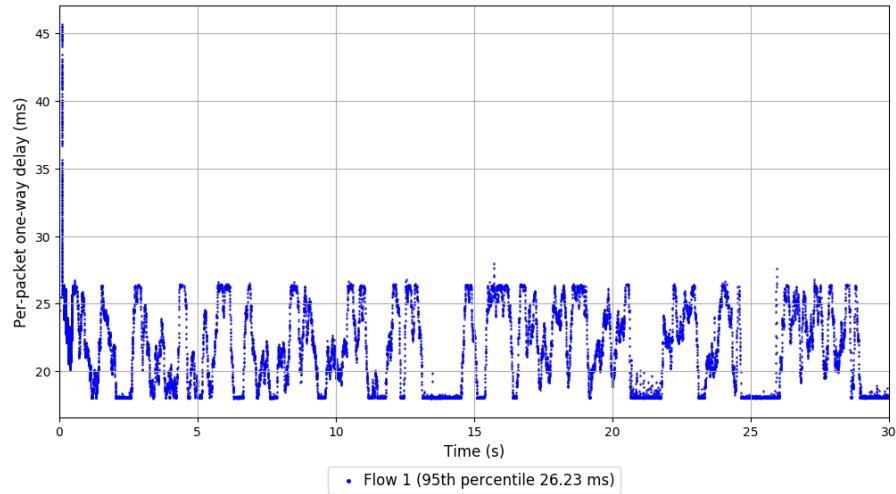
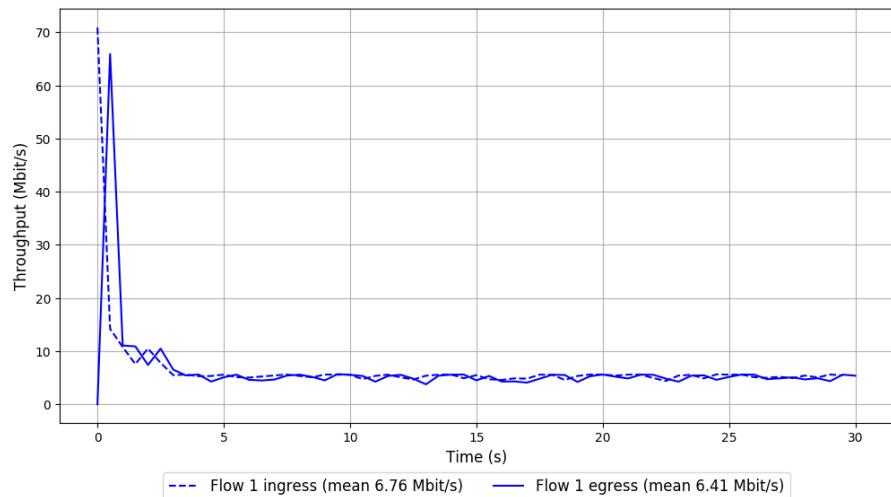


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-02-20 06:10:31
End at: 2019-02-20 06:11:01
Local clock offset: -2.015 ms
Remote clock offset: -5.058 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 26.235 ms
Loss rate: 5.37%
-- Flow 1:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 26.235 ms
Loss rate: 5.37%
```

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

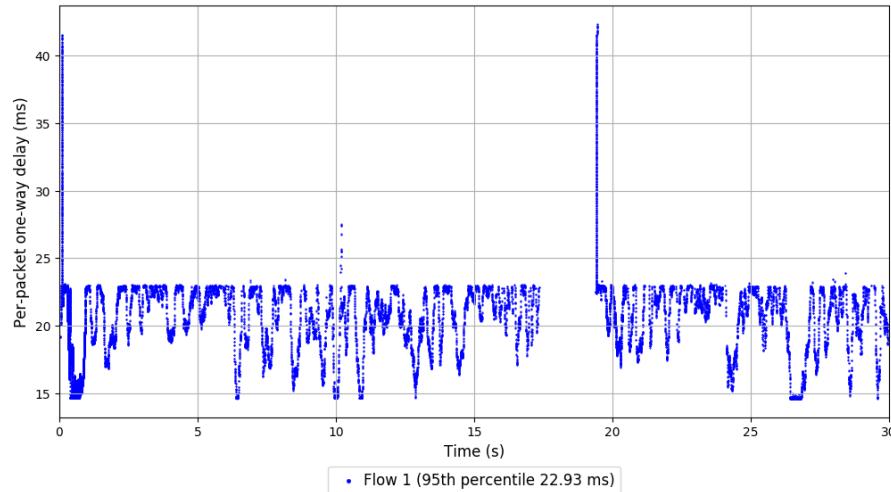
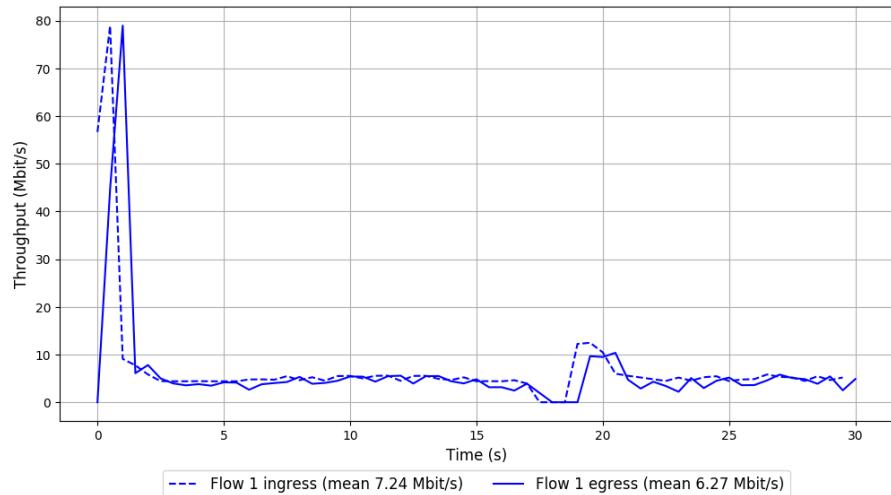


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-02-20 06:35:47
End at: 2019-02-20 06:36:17
Local clock offset: -2.182 ms
Remote clock offset: -2.111 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 22.928 ms
Loss rate: 13.51%
-- Flow 1:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 22.928 ms
Loss rate: 13.51%
```

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

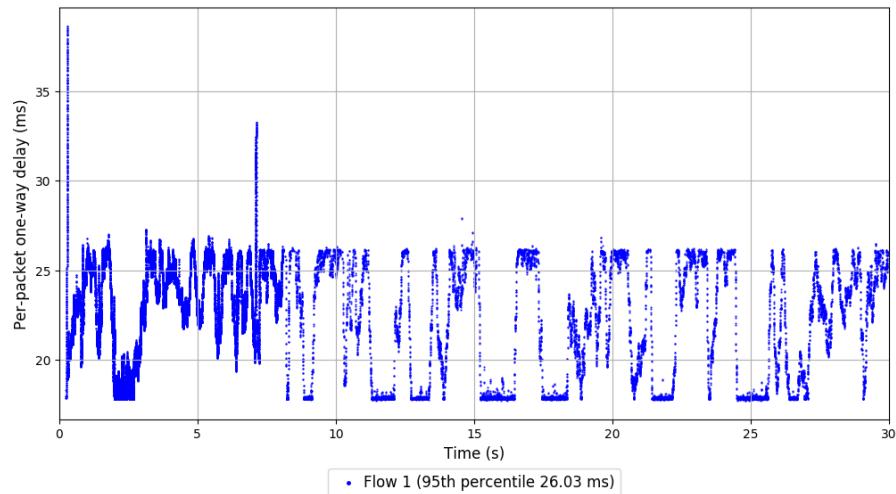
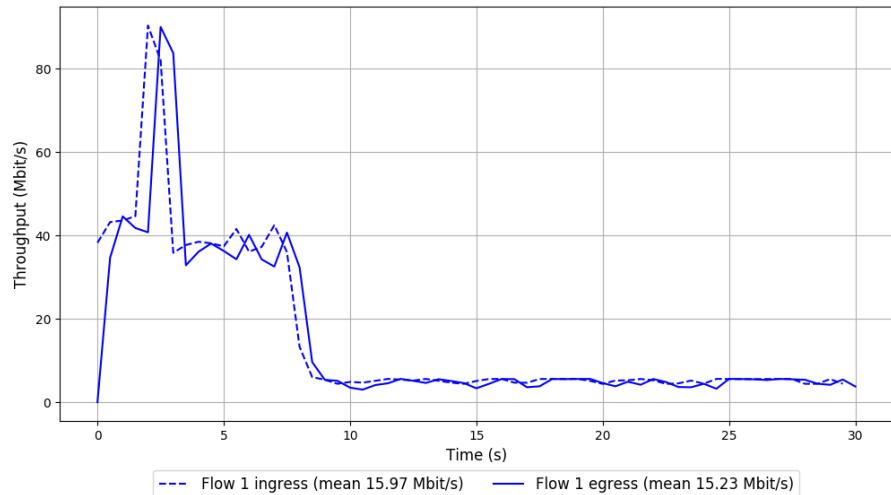


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-02-20 07:02:48
End at: 2019-02-20 07:03:18
Local clock offset: 0.619 ms
Remote clock offset: -3.281 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.23 Mbit/s
95th percentile per-packet one-way delay: 26.027 ms
Loss rate: 5.35%
-- Flow 1:
Average throughput: 15.23 Mbit/s
95th percentile per-packet one-way delay: 26.027 ms
Loss rate: 5.35%
```

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

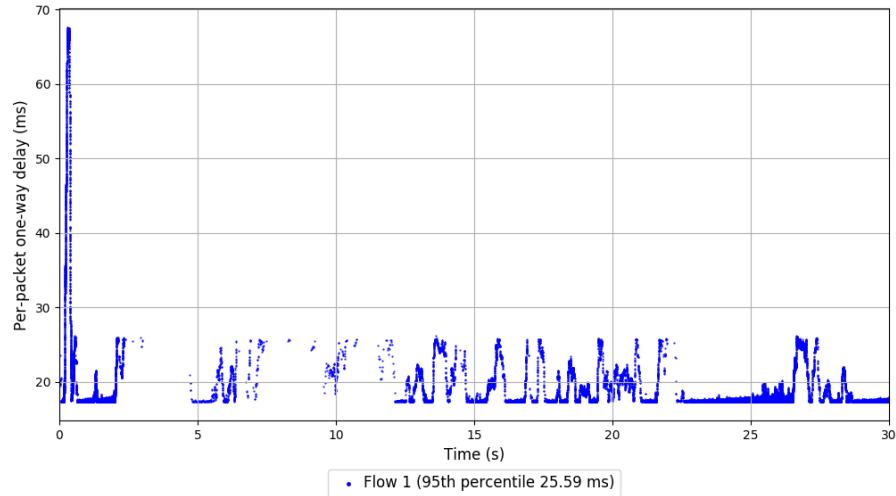
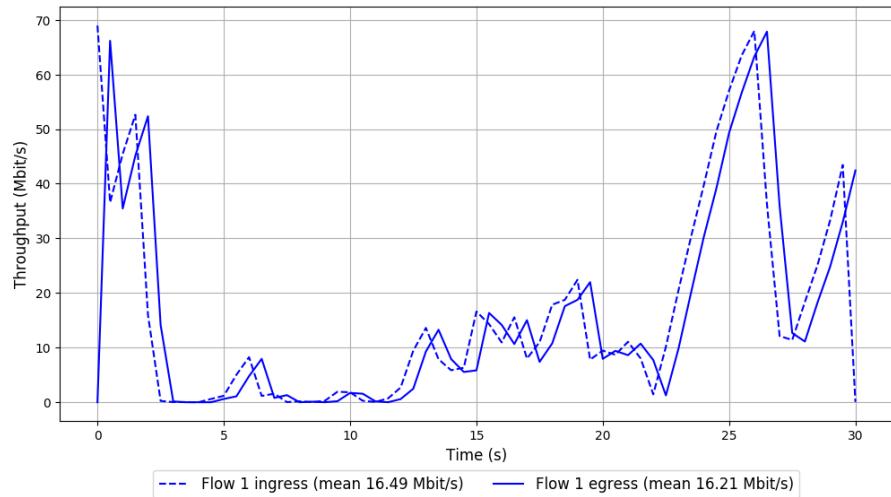


Run 1: Statistics of TCP Vegas

```
Start at: 2019-02-20 05:17:48
End at: 2019-02-20 05:18:18
Local clock offset: -0.929 ms
Remote clock offset: -5.359 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.21 Mbit/s
95th percentile per-packet one-way delay: 25.592 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 16.21 Mbit/s
95th percentile per-packet one-way delay: 25.592 ms
Loss rate: 1.80%
```

Run 1: Report of TCP Vegas — Data Link

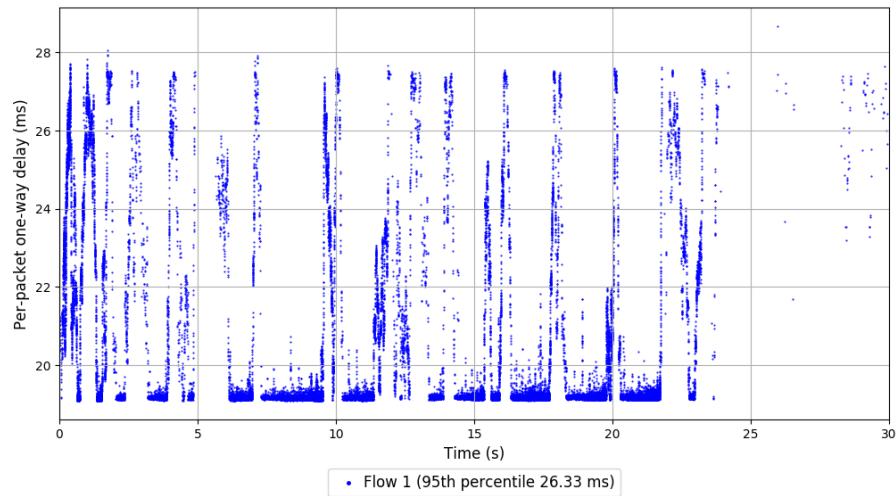
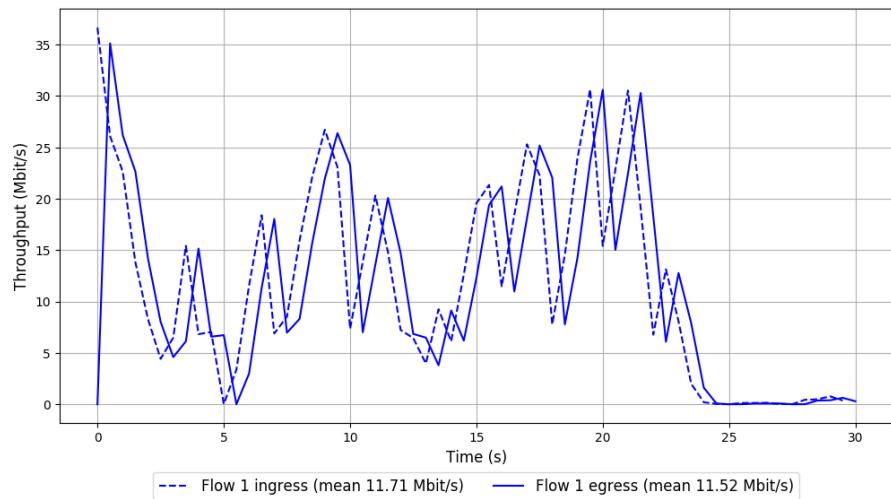


Run 2: Statistics of TCP Vegas

```
Start at: 2019-02-20 05:43:26
End at: 2019-02-20 05:43:56
Local clock offset: 1.211 ms
Remote clock offset: -3.89 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.52 Mbit/s
95th percentile per-packet one-way delay: 26.327 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 11.52 Mbit/s
95th percentile per-packet one-way delay: 26.327 ms
Loss rate: 1.72%
```

Run 2: Report of TCP Vegas — Data Link

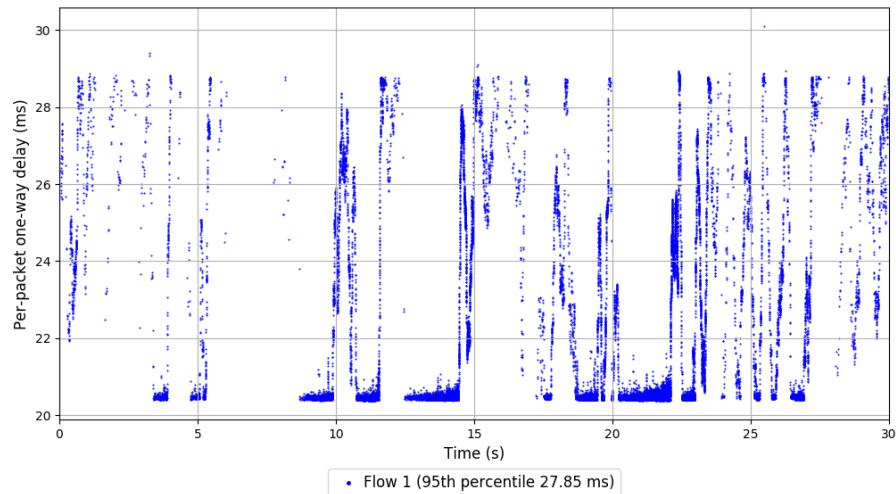
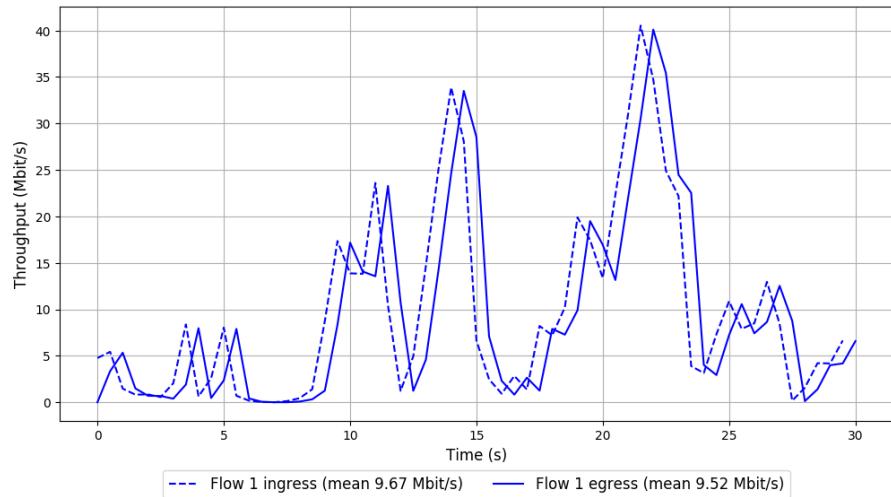


Run 3: Statistics of TCP Vegas

```
Start at: 2019-02-20 06:09:24
End at: 2019-02-20 06:09:54
Local clock offset: -0.09 ms
Remote clock offset: -5.507 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 27.849 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 27.849 ms
Loss rate: 1.63%
```

Run 3: Report of TCP Vegas — Data Link

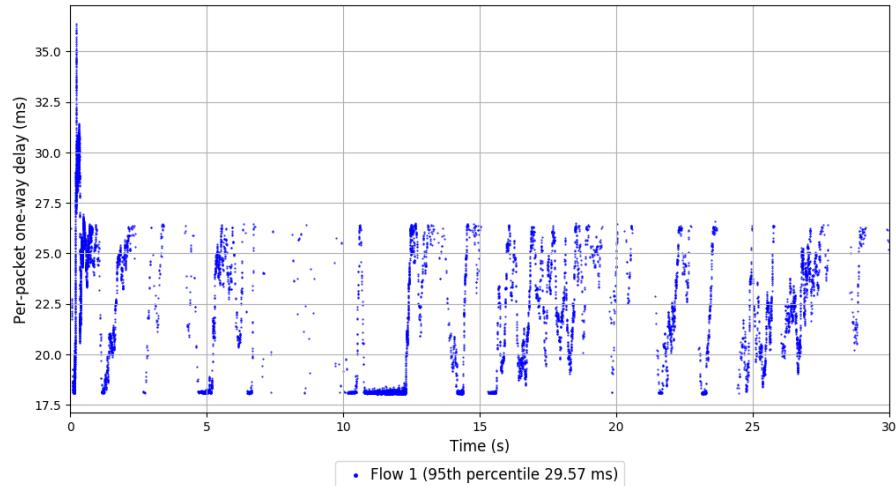
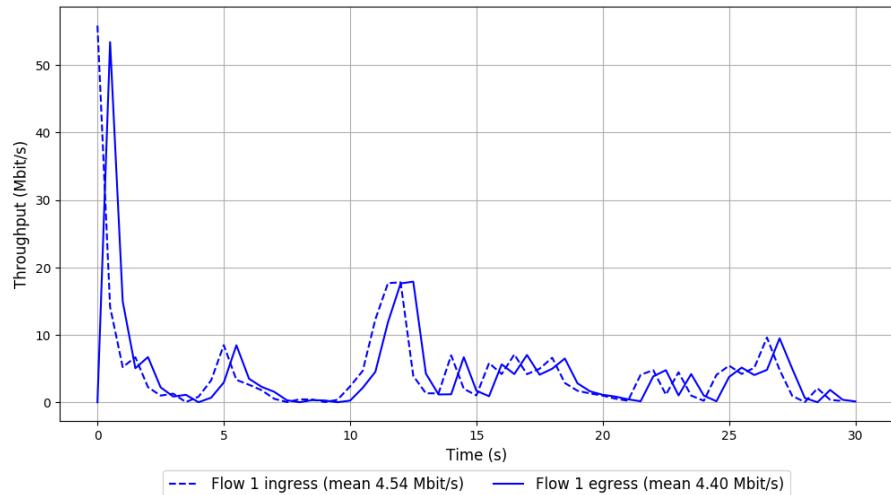


Run 4: Statistics of TCP Vegas

```
Start at: 2019-02-20 06:34:38
End at: 2019-02-20 06:35:08
Local clock offset: 0.856 ms
Remote clock offset: -2.332 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 29.572 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 29.572 ms
Loss rate: 3.12%
```

Run 4: Report of TCP Vegas — Data Link

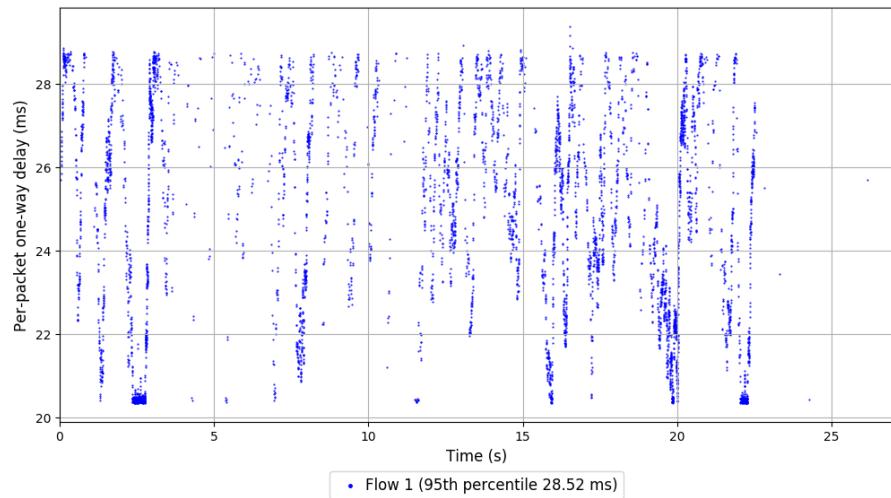
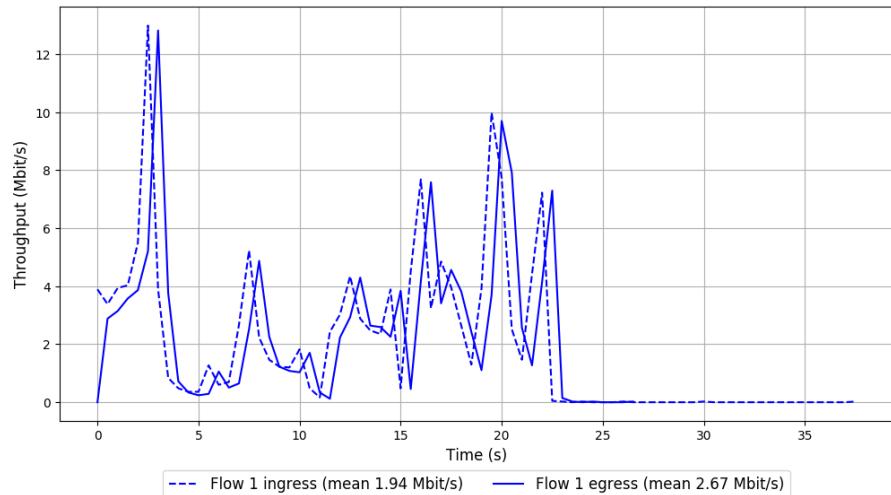


Run 5: Statistics of TCP Vegas

```
Start at: 2019-02-20 07:00:25
End at: 2019-02-20 07:00:55
Local clock offset: 2.43 ms
Remote clock offset: -4.003 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 28.522 ms
Loss rate: 4.68%
-- Flow 1:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 28.522 ms
Loss rate: 4.68%
```

Run 5: Report of TCP Vegas — Data Link

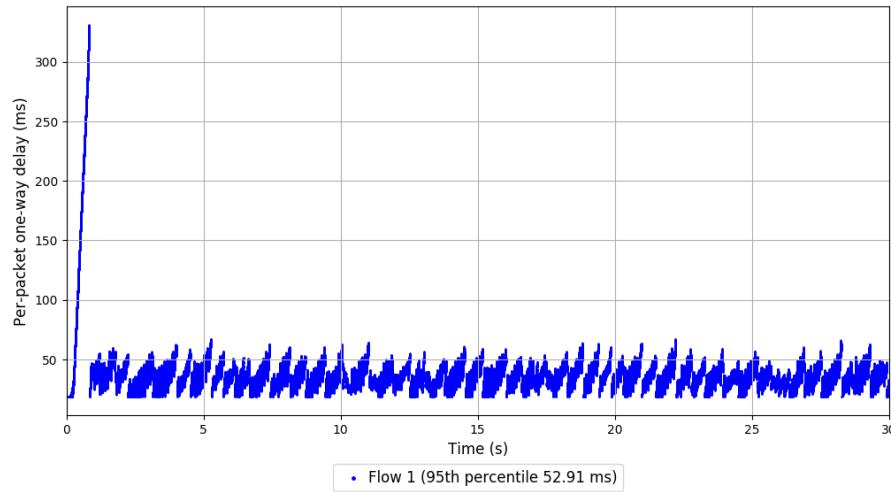
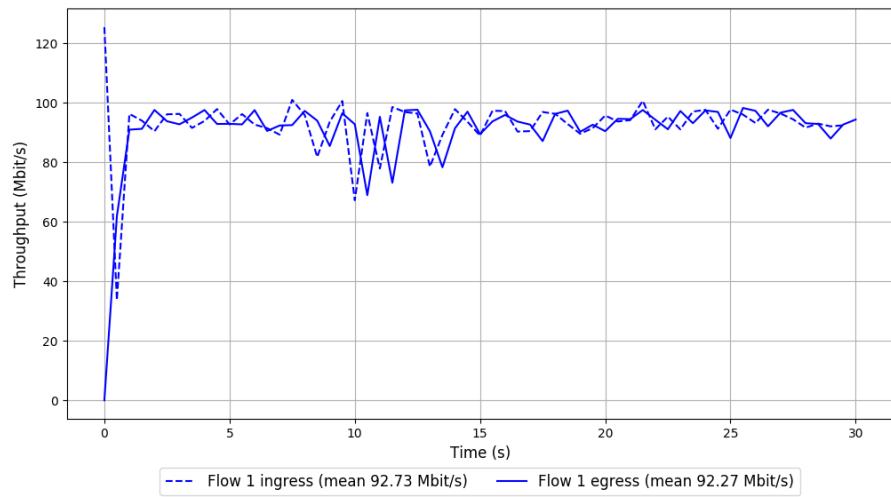


Run 1: Statistics of Verus

```
Start at: 2019-02-20 05:05:39
End at: 2019-02-20 05:06:09
Local clock offset: 1.399 ms
Remote clock offset: -4.421 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.27 Mbit/s
95th percentile per-packet one-way delay: 52.915 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 92.27 Mbit/s
95th percentile per-packet one-way delay: 52.915 ms
Loss rate: 0.57%
```

Run 1: Report of Verus — Data Link

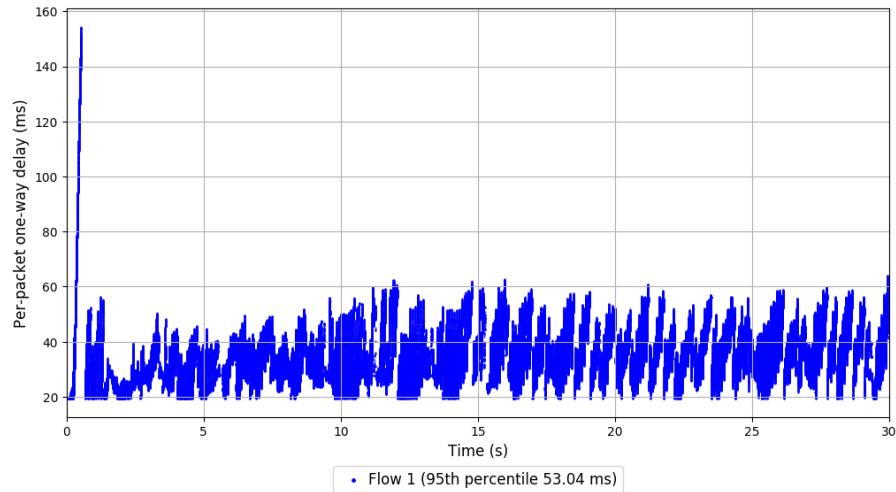
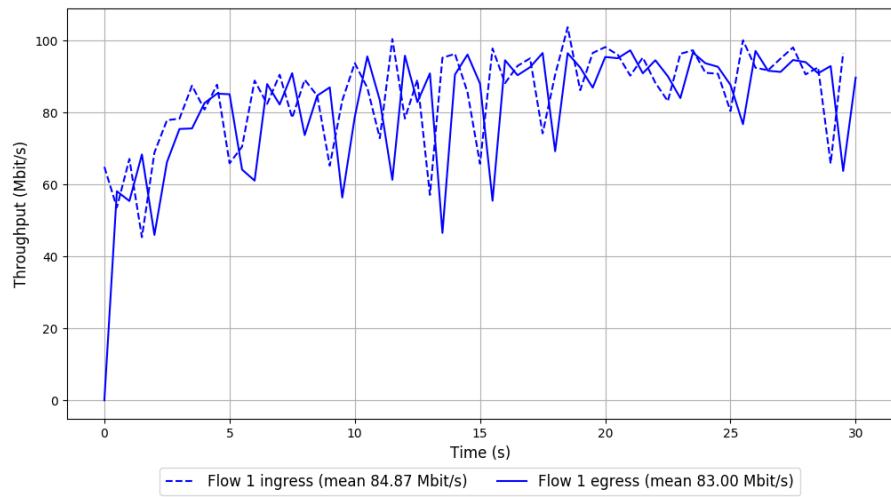


Run 2: Statistics of Verus

```
Start at: 2019-02-20 05:31:16
End at: 2019-02-20 05:31:46
Local clock offset: 1.706 ms
Remote clock offset: -4.231 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.00 Mbit/s
95th percentile per-packet one-way delay: 53.039 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 83.00 Mbit/s
95th percentile per-packet one-way delay: 53.039 ms
Loss rate: 2.28%
```

Run 2: Report of Verus — Data Link

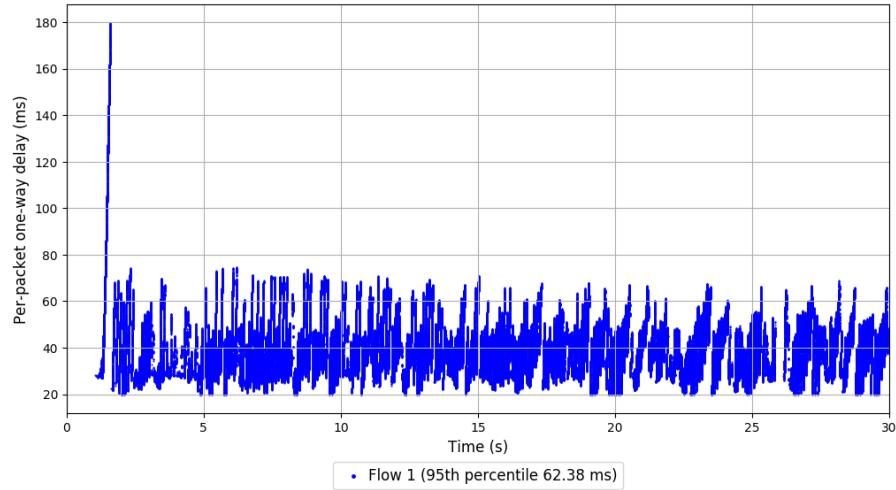
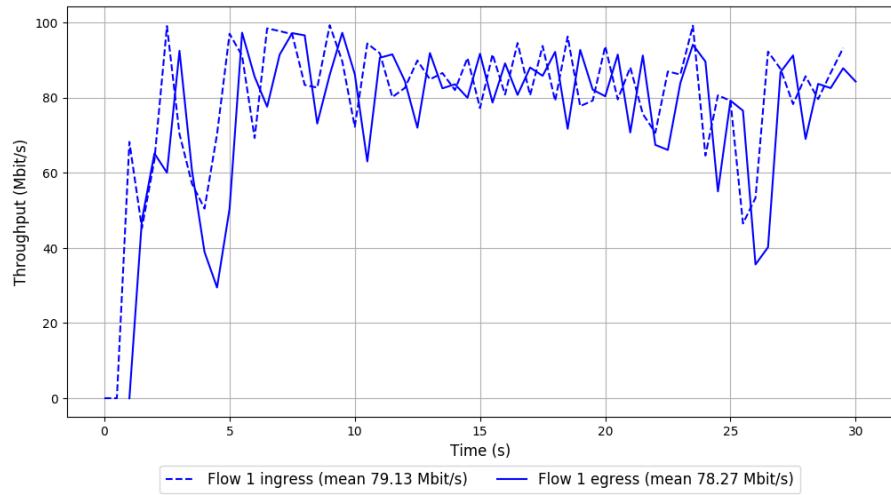


Run 3: Statistics of Verus

```
Start at: 2019-02-20 05:56:45
End at: 2019-02-20 05:57:15
Local clock offset: 0.8 ms
Remote clock offset: -4.387 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.27 Mbit/s
95th percentile per-packet one-way delay: 62.377 ms
Loss rate: 4.45%
-- Flow 1:
Average throughput: 78.27 Mbit/s
95th percentile per-packet one-way delay: 62.377 ms
Loss rate: 4.45%
```

Run 3: Report of Verus — Data Link

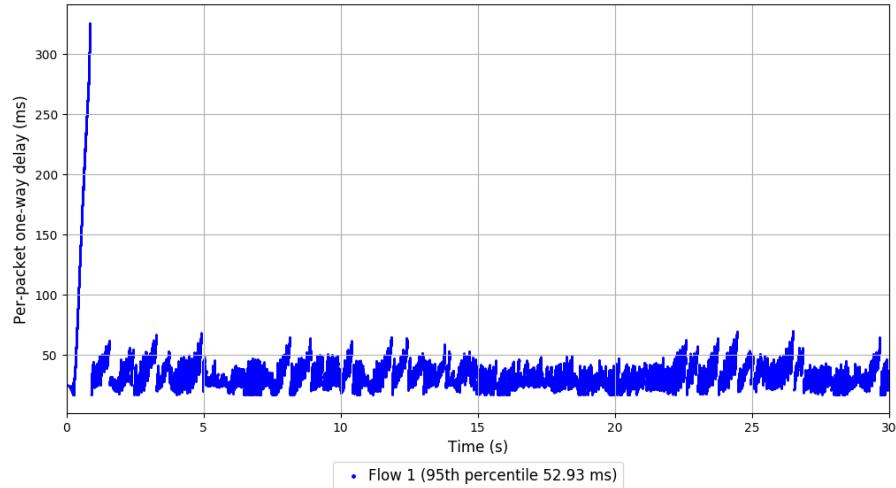
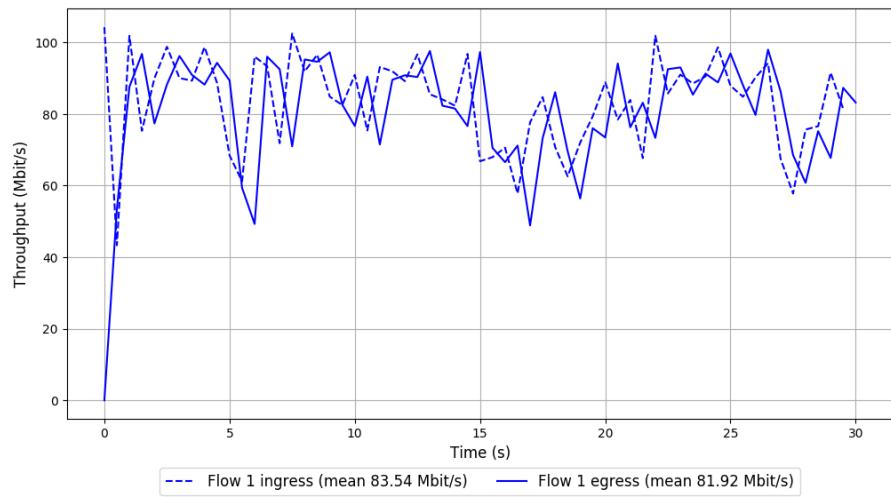


Run 4: Statistics of Verus

```
Start at: 2019-02-20 06:22:14
End at: 2019-02-20 06:22:44
Local clock offset: -0.871 ms
Remote clock offset: -2.374 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.92 Mbit/s
95th percentile per-packet one-way delay: 52.927 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 81.92 Mbit/s
95th percentile per-packet one-way delay: 52.927 ms
Loss rate: 2.03%
```

Run 4: Report of Verus — Data Link

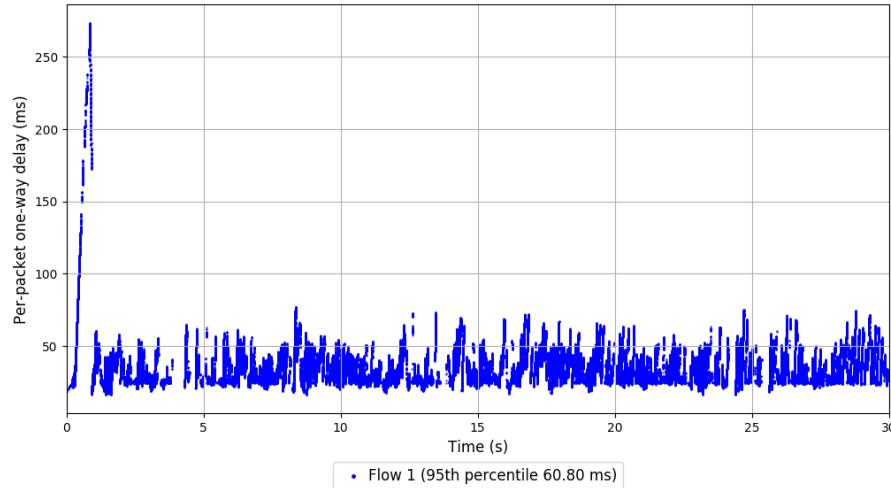
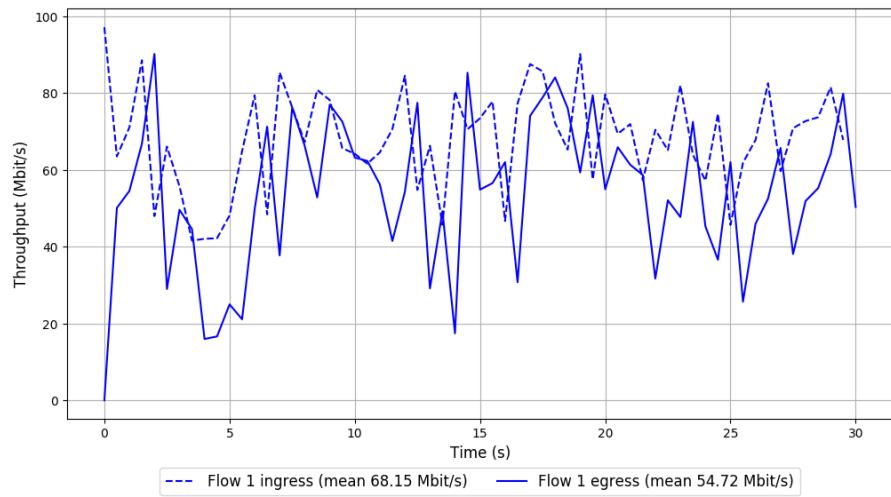


Run 5: Statistics of Verus

```
Start at: 2019-02-20 06:47:42
End at: 2019-02-20 06:48:12
Local clock offset: -0.811 ms
Remote clock offset: -3.044 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.72 Mbit/s
95th percentile per-packet one-way delay: 60.799 ms
Loss rate: 19.73%
-- Flow 1:
Average throughput: 54.72 Mbit/s
95th percentile per-packet one-way delay: 60.799 ms
Loss rate: 19.73%
```

Run 5: Report of Verus — Data Link

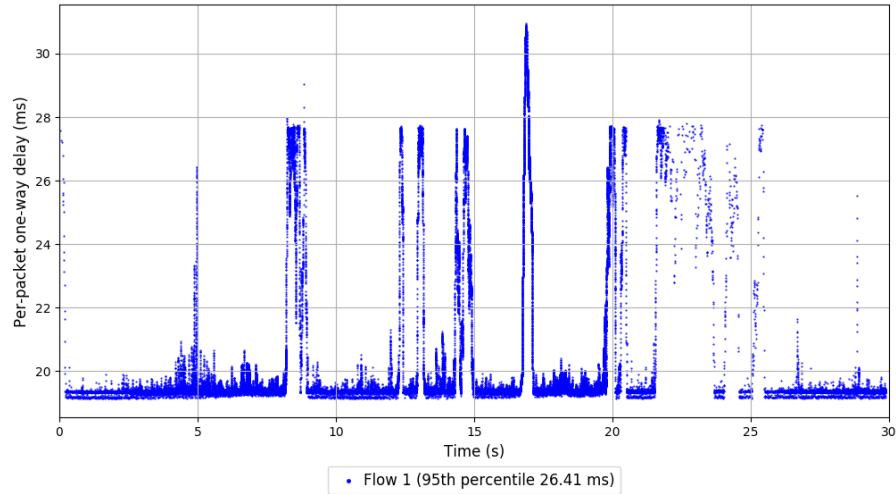
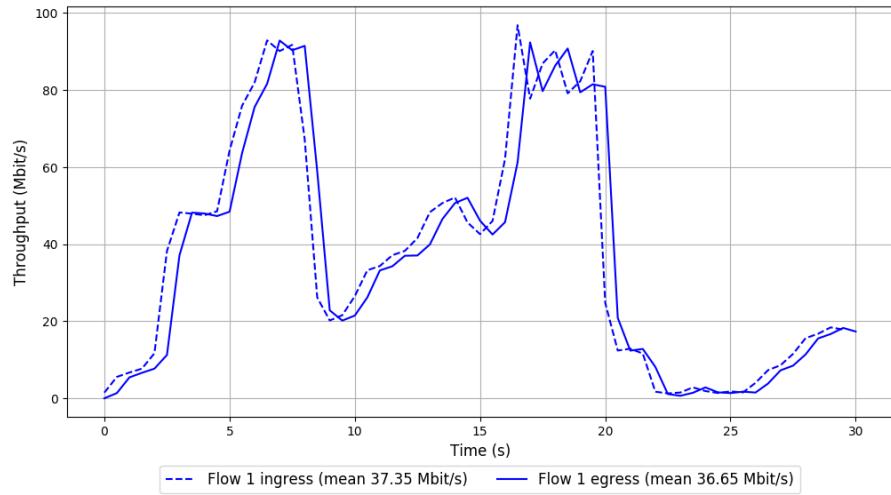


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-02-20 05:20:11
End at: 2019-02-20 05:20:41
Local clock offset: 1.9 ms
Remote clock offset: -4.45 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.65 Mbit/s
95th percentile per-packet one-way delay: 26.407 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 36.65 Mbit/s
95th percentile per-packet one-way delay: 26.407 ms
Loss rate: 1.98%
```

Run 1: Report of PCC-Vivace — Data Link

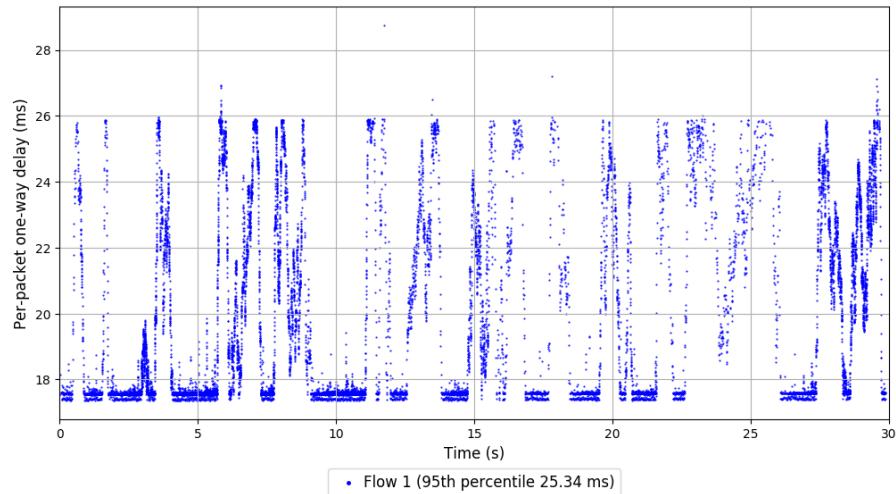
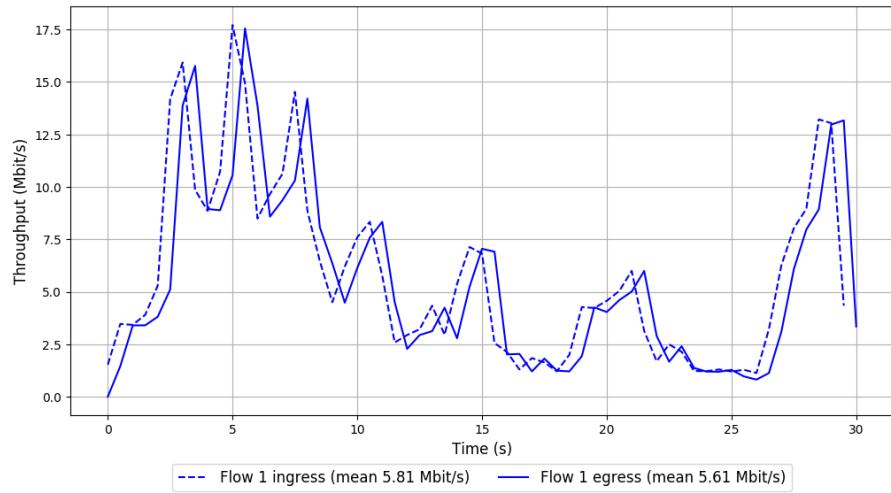


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-02-20 05:45:44
End at: 2019-02-20 05:46:14
Local clock offset: 0.309 ms
Remote clock offset: -3.146 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 25.336 ms
Loss rate: 3.43%
-- Flow 1:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 25.336 ms
Loss rate: 3.43%
```

Run 2: Report of PCC-Vivace — Data Link

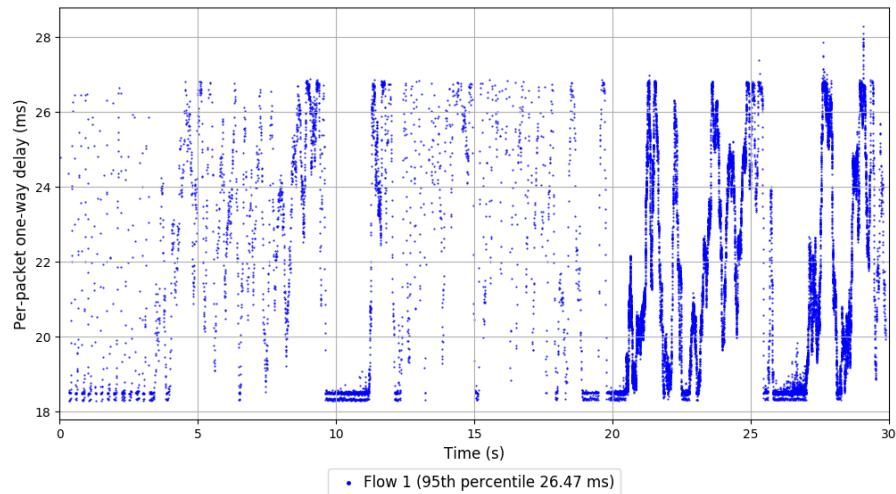
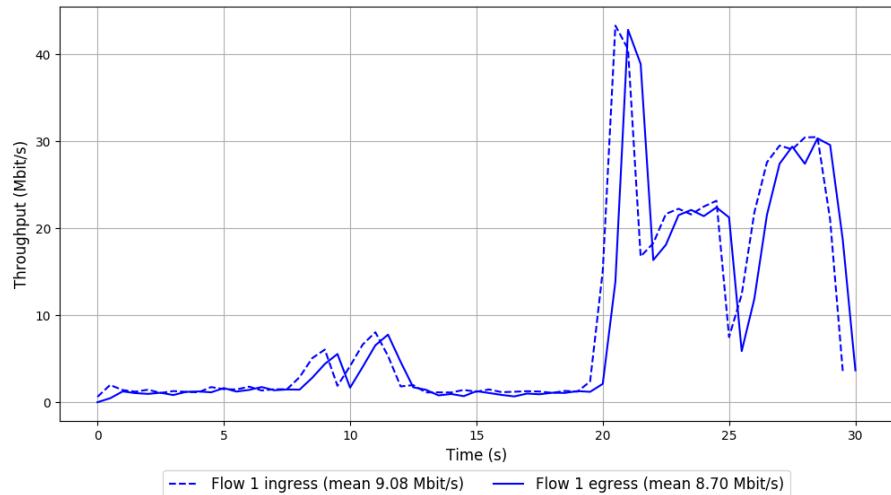


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-02-20 06:11:38
End at: 2019-02-20 06:12:08
Local clock offset: -0.143 ms
Remote clock offset: -3.585 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.70 Mbit/s
95th percentile per-packet one-way delay: 26.474 ms
Loss rate: 4.30%
-- Flow 1:
Average throughput: 8.70 Mbit/s
95th percentile per-packet one-way delay: 26.474 ms
Loss rate: 4.30%
```

Run 3: Report of PCC-Vivace — Data Link

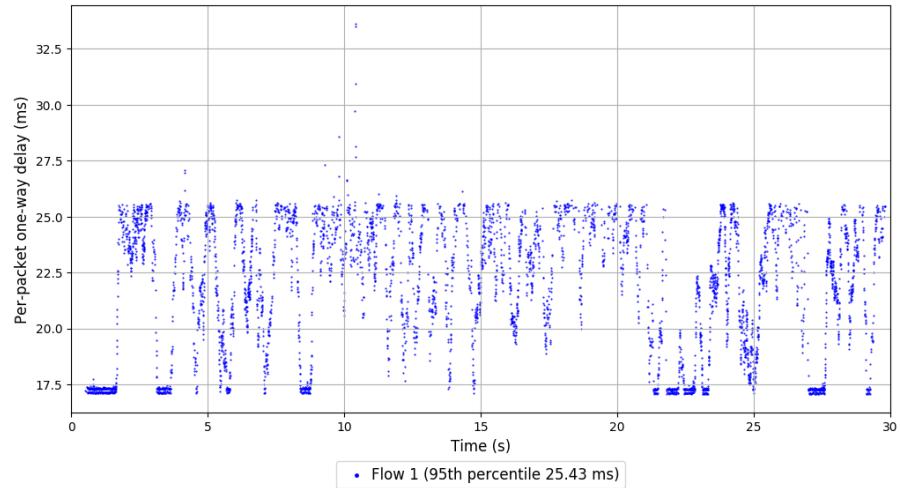
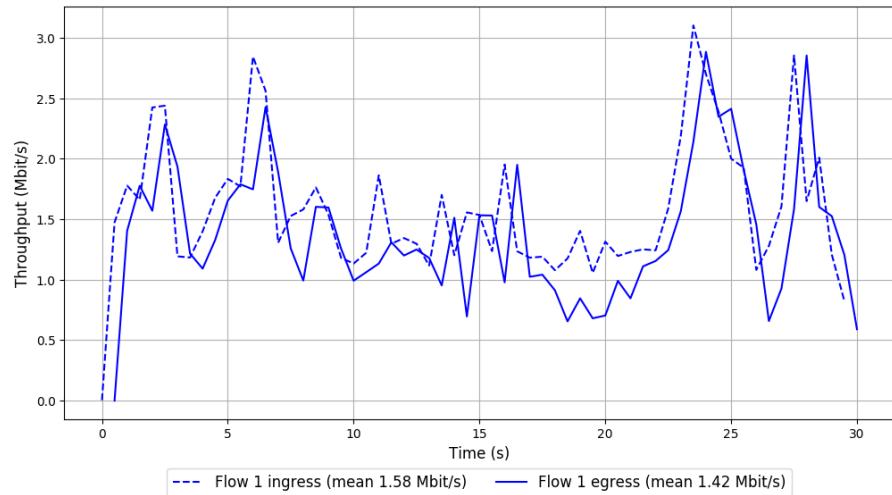


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-02-20 06:37:00
End at: 2019-02-20 06:37:30
Local clock offset: 0.235 ms
Remote clock offset: -2.442 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 25.429 ms
Loss rate: 12.26%
-- Flow 1:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 25.429 ms
Loss rate: 12.26%
```

Run 4: Report of PCC-Vivace — Data Link

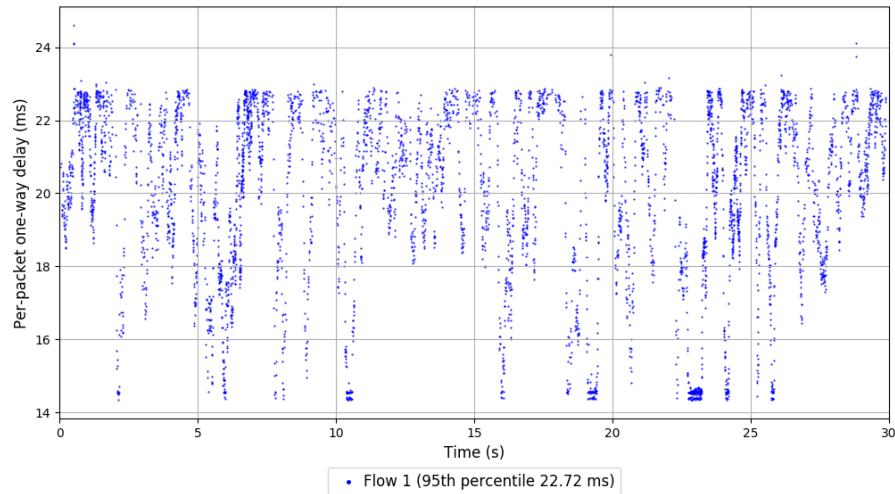
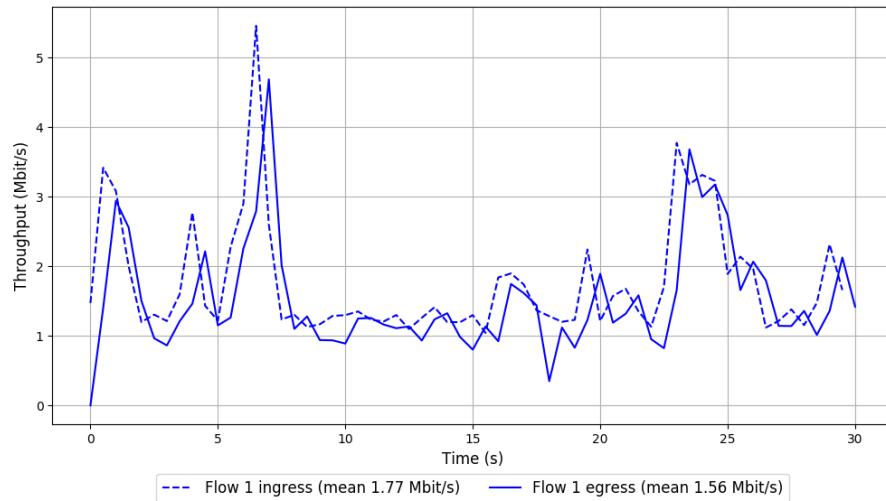


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-02-20 07:04:06
End at: 2019-02-20 07:04:37
Local clock offset: -1.229 ms
Remote clock offset: -1.851 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 22.723 ms
Loss rate: 12.35%
-- Flow 1:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 22.723 ms
Loss rate: 12.35%
```

Run 5: Report of PCC-Vivace — Data Link

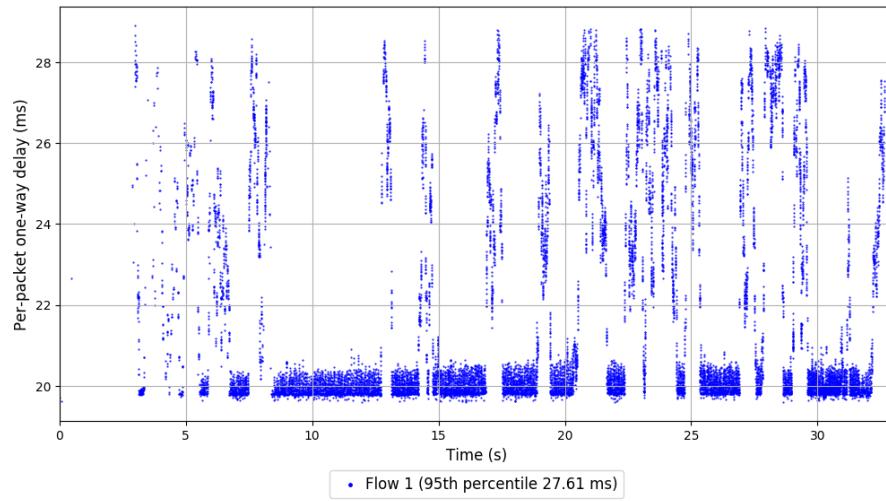
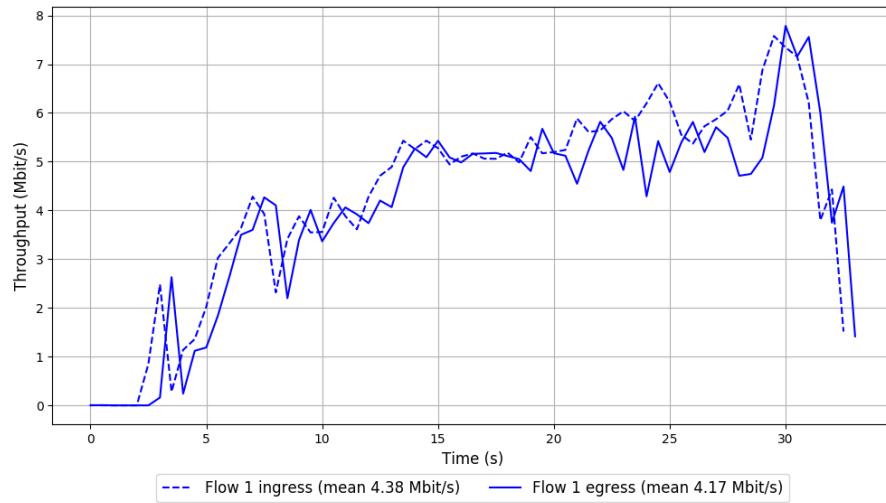


```
Run 1: Statistics of WebRTC media

Start at: 2019-02-20 05:29:05
End at: 2019-02-20 05:29:35
Local clock offset: 2.107 ms
Remote clock offset: -4.415 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 27.613 ms
Loss rate: 4.94%
-- Flow 1:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 27.613 ms
Loss rate: 4.94%
```

Run 1: Report of WebRTC media — Data Link

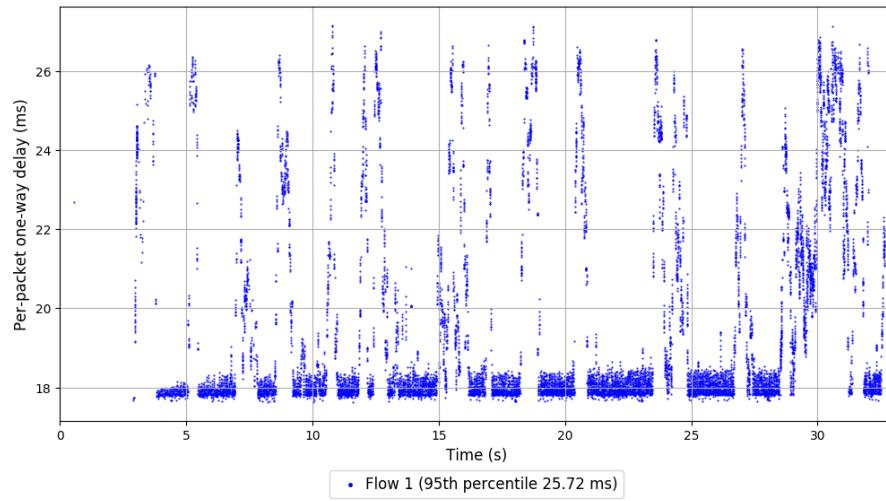
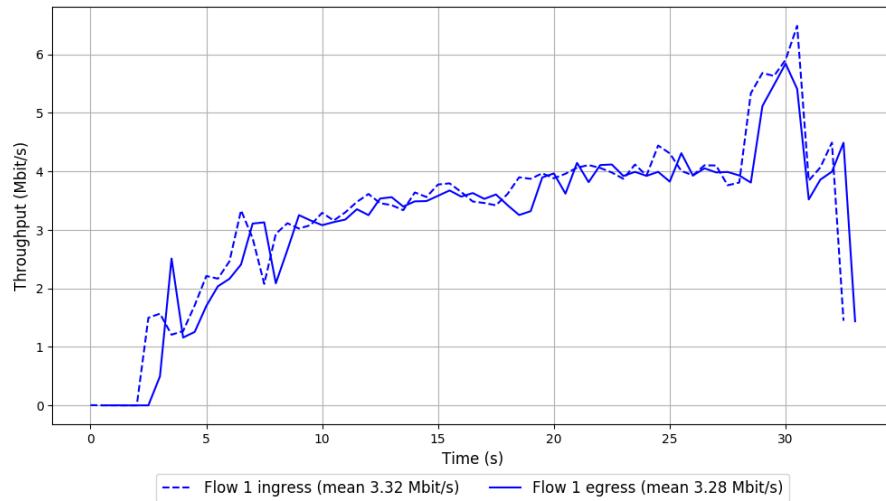


Run 2: Statistics of WebRTC media

```
Start at: 2019-02-20 05:54:33
End at: 2019-02-20 05:55:03
Local clock offset: -0.154 ms
Remote clock offset: -3.44 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 25.719 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 25.719 ms
Loss rate: 2.95%
```

Run 2: Report of WebRTC media — Data Link

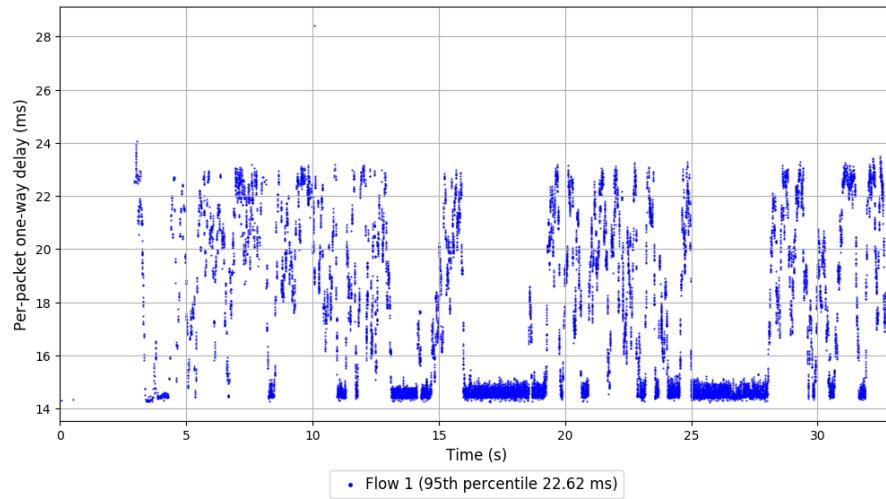
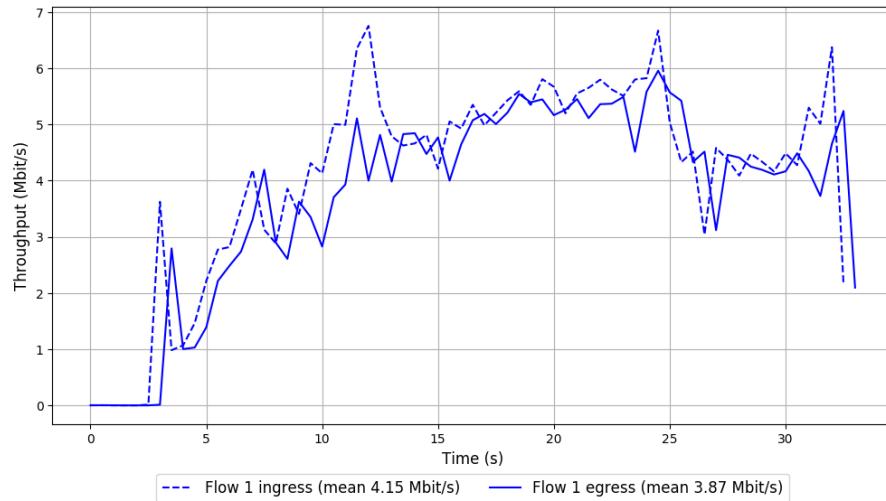


Run 3: Statistics of WebRTC media

```
Start at: 2019-02-20 06:20:03
End at: 2019-02-20 06:20:33
Local clock offset: -3.646 ms
Remote clock offset: -2.707 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 22.624 ms
Loss rate: 6.92%
-- Flow 1:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 22.624 ms
Loss rate: 6.92%
```

Run 3: Report of WebRTC media — Data Link

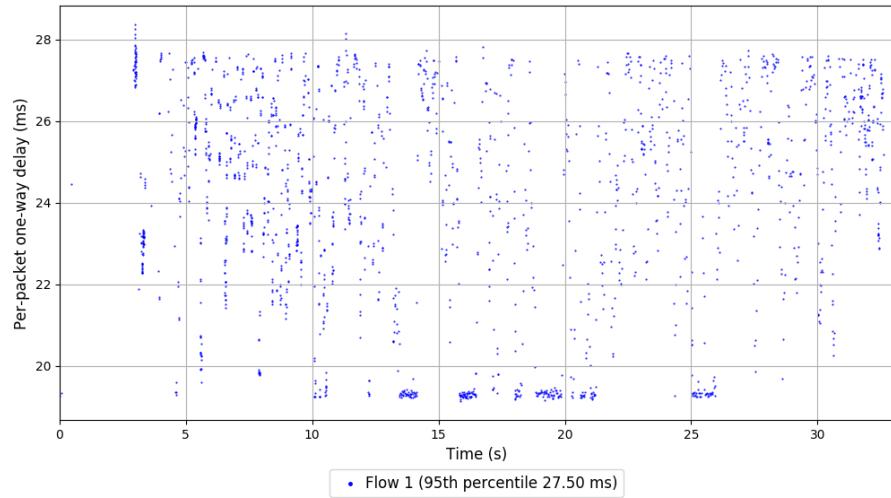
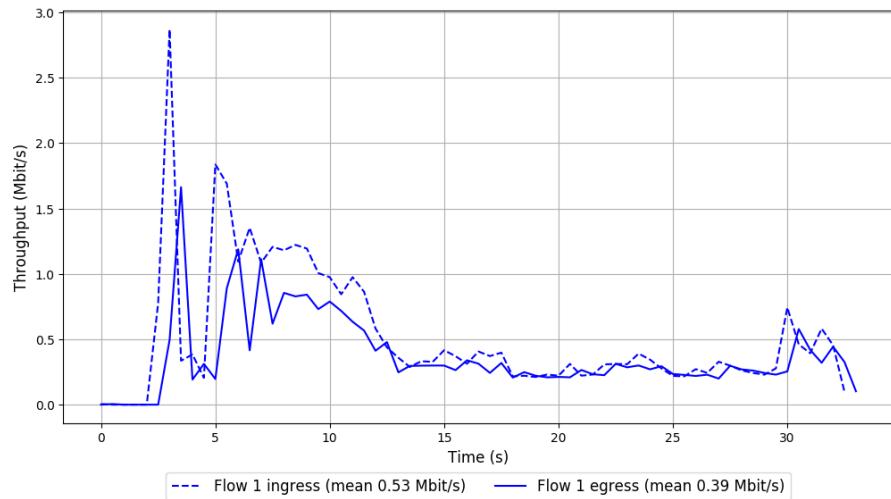


Run 4: Statistics of WebRTC media

```
Start at: 2019-02-20 06:45:30
End at: 2019-02-20 06:46:00
Local clock offset: 1.976 ms
Remote clock offset: -3.164 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 27.497 ms
Loss rate: 27.62%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 27.497 ms
Loss rate: 27.62%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-02-20 07:13:34
End at: 2019-02-20 07:14:05
Local clock offset: 2.008 ms
Remote clock offset: -3.063 ms

# Below is generated by plot.py at 2019-02-20 07:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 27.292 ms
Loss rate: 11.90%
-- Flow 1:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 27.292 ms
Loss rate: 11.90%
```

Run 5: Report of WebRTC media — Data Link

