

Pantheon Report

Generated at 2019-03-27 08:48:17 (UTC).
Data path: Colombia on p4p1 (*remote*) → AWS Brazil 2 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 gps.ntp.br and have been applied to correct the timestamps in logs.

System info:

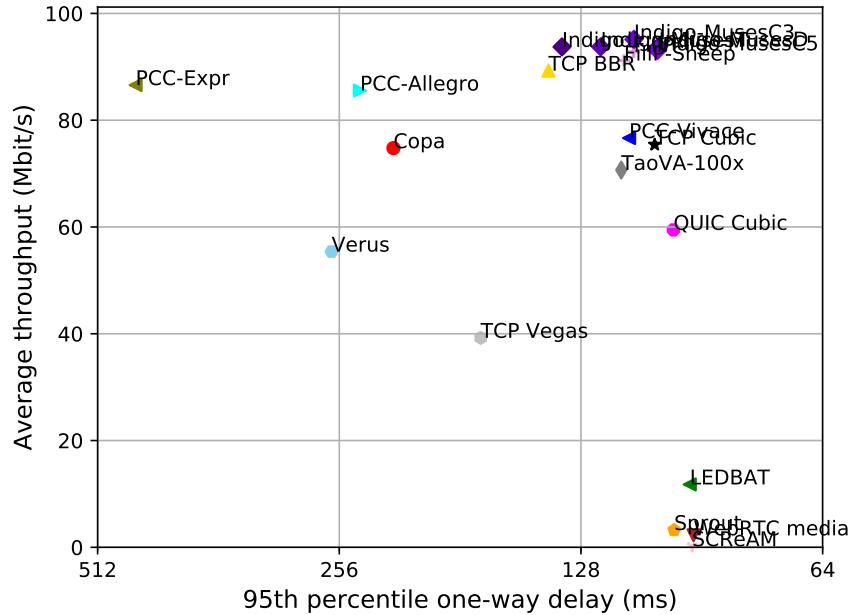
```
Linux 4.15.0-1034-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

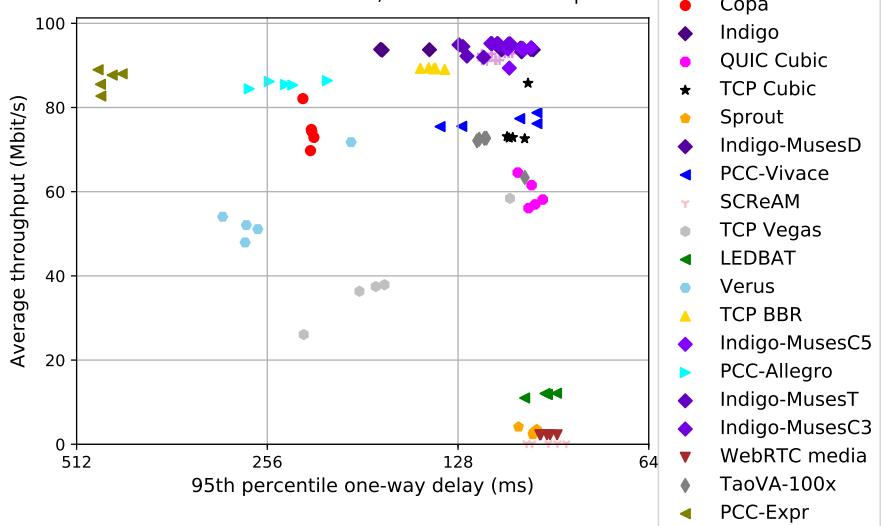
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 Colombia to AWS Brazil 2, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from Colombia to AWS Brazil 2, 5 runs of 30s each per scheme



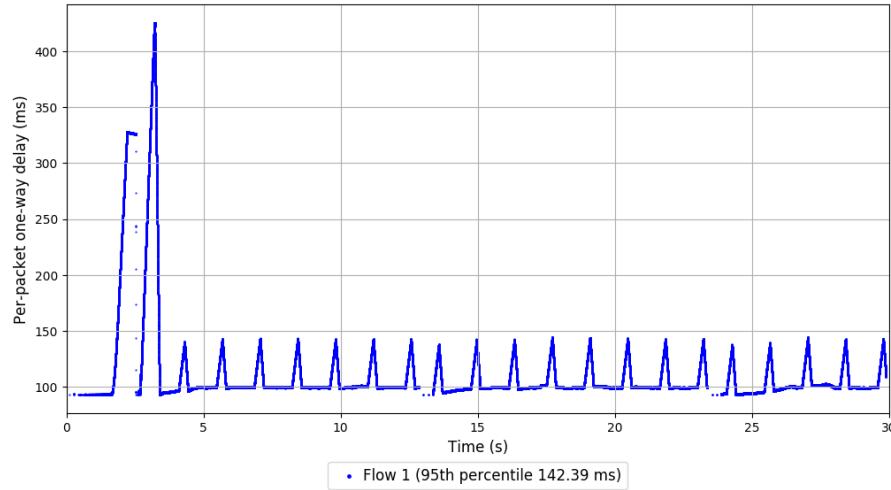
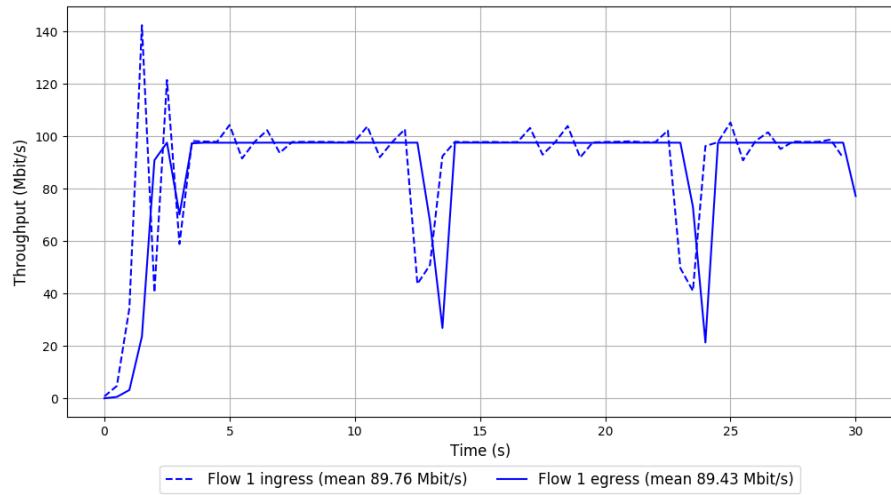
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	89.27	140.51	0.90
Copa	5	74.77	219.17	0.80
TCP Cubic	5	75.43	103.61	0.62
FillP	5	92.82	110.05	0.62
FillP-Sheep	5	91.18	113.16	0.62
Indigo	5	93.73	135.17	1.63
Indigo-MusesC3	5	95.14	109.97	5.56
Indigo-MusesC5	5	93.08	102.75	1.25
Indigo-MusesD	5	93.82	102.41	0.90
Indigo-MusesT	5	93.74	120.97	7.84
LEDBAT	5	11.78	93.69	1.15
PCC-Allegro	5	85.55	241.22	0.74
PCC-Expr	5	86.58	459.16	1.44
QUIC Cubic	5	59.46	98.18	0.87
SCReAM	5	0.22	93.05	0.59
Sprout	5	3.24	97.98	0.68
TaoVA-100x	5	70.67	114.03	0.70
TCP Vegas	5	39.24	170.65	0.59
Verus	5	55.39	261.74	0.81
PCC-Vivace	5	76.66	111.50	0.77
WebRTC media	5	2.24	92.68	0.31

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-27 06:40:31
End at: 2019-03-27 06:41:01
Local clock offset: 4.064 ms
Remote clock offset: 8.533 ms

# Below is generated by plot.py at 2019-03-27 08:37:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.43 Mbit/s
95th percentile per-packet one-way delay: 142.391 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 89.43 Mbit/s
95th percentile per-packet one-way delay: 142.391 ms
Loss rate: 0.94%
```

Run 1: Report of TCP BBR — Data Link

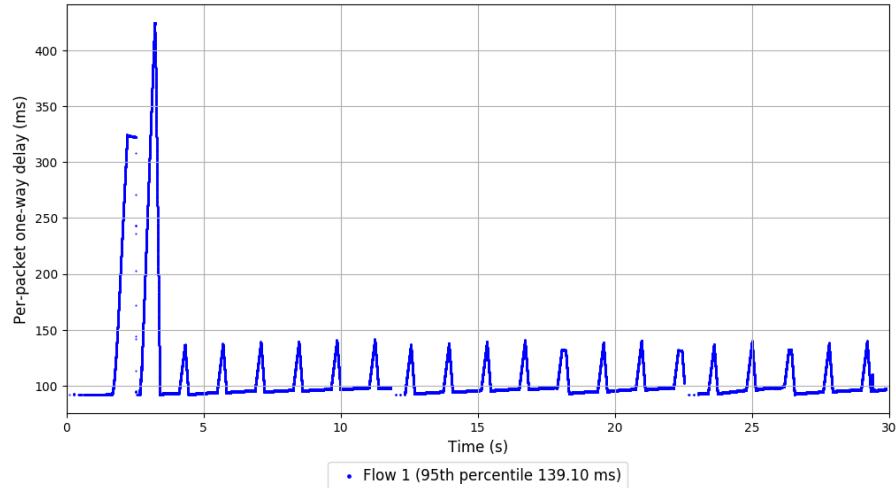
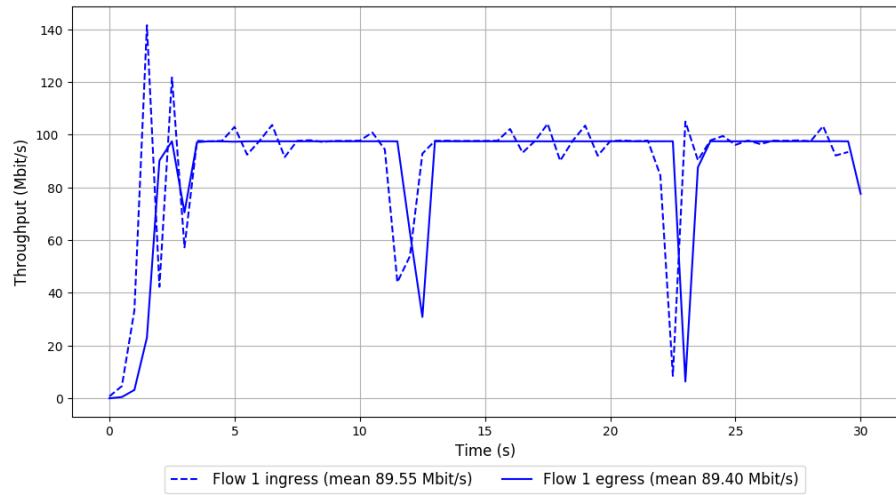


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-27 07:05:26
End at: 2019-03-27 07:05:56
Local clock offset: 2.676 ms
Remote clock offset: 0.95 ms

# Below is generated by plot.py at 2019-03-27 08:37:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.40 Mbit/s
95th percentile per-packet one-way delay: 139.102 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 89.40 Mbit/s
95th percentile per-packet one-way delay: 139.102 ms
Loss rate: 0.74%
```

Run 2: Report of TCP BBR — Data Link

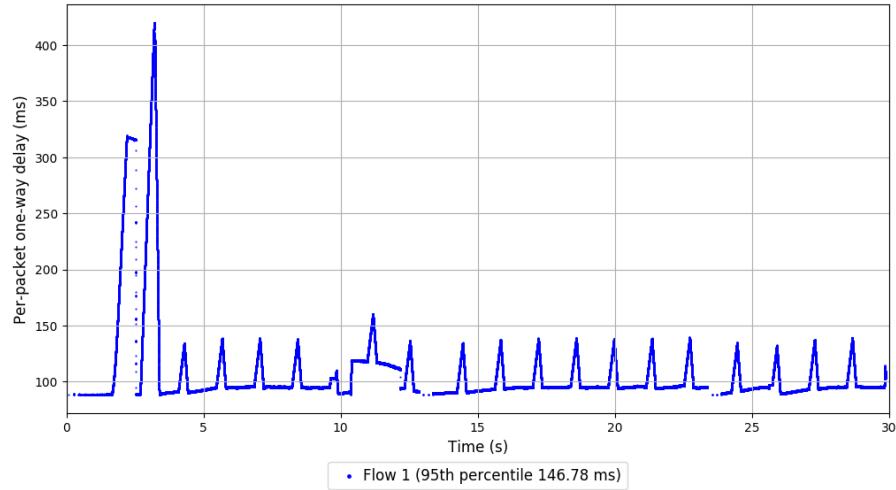
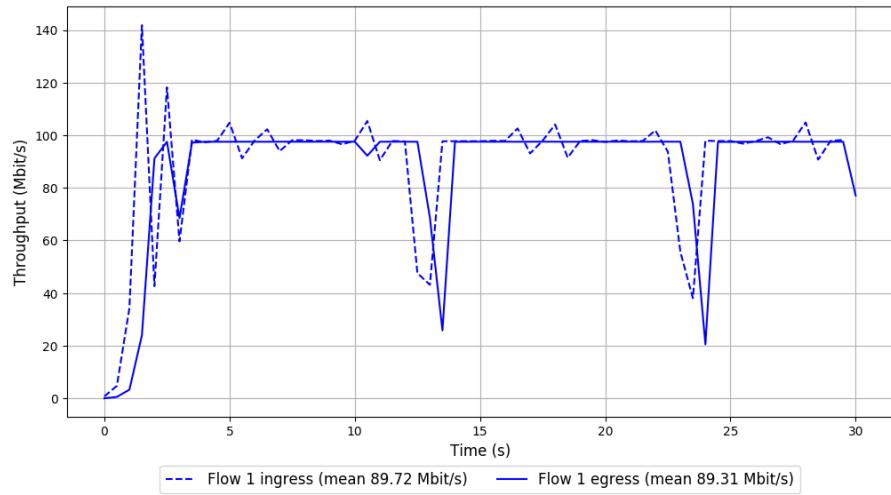


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-27 07:30:20
End at: 2019-03-27 07:30:50
Local clock offset: -2.845 ms
Remote clock offset: 4.959 ms

# Below is generated by plot.py at 2019-03-27 08:37:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.31 Mbit/s
95th percentile per-packet one-way delay: 146.781 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 89.31 Mbit/s
95th percentile per-packet one-way delay: 146.781 ms
Loss rate: 1.03%
```

Run 3: Report of TCP BBR — Data Link

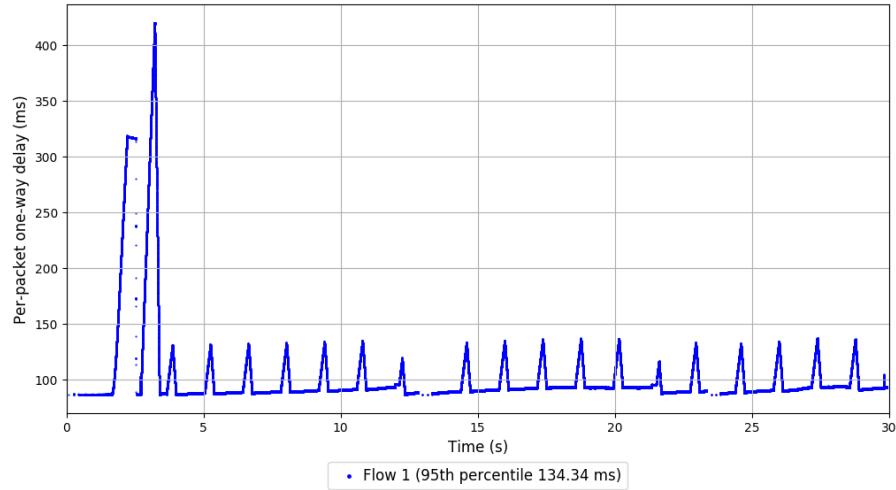
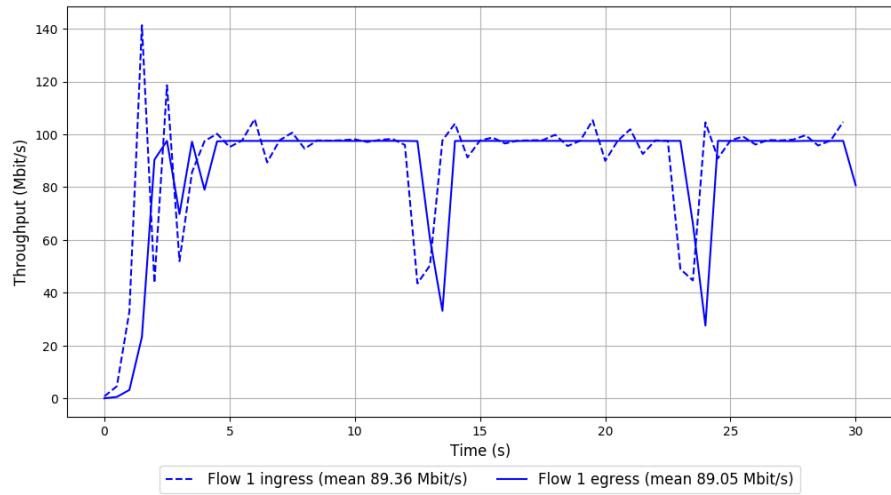


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-27 07:55:16
End at: 2019-03-27 07:55:46
Local clock offset: -4.566 ms
Remote clock offset: 11.964 ms

# Below is generated by plot.py at 2019-03-27 08:37:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.05 Mbit/s
95th percentile per-packet one-way delay: 134.343 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 89.05 Mbit/s
95th percentile per-packet one-way delay: 134.343 ms
Loss rate: 0.91%
```

Run 4: Report of TCP BBR — Data Link

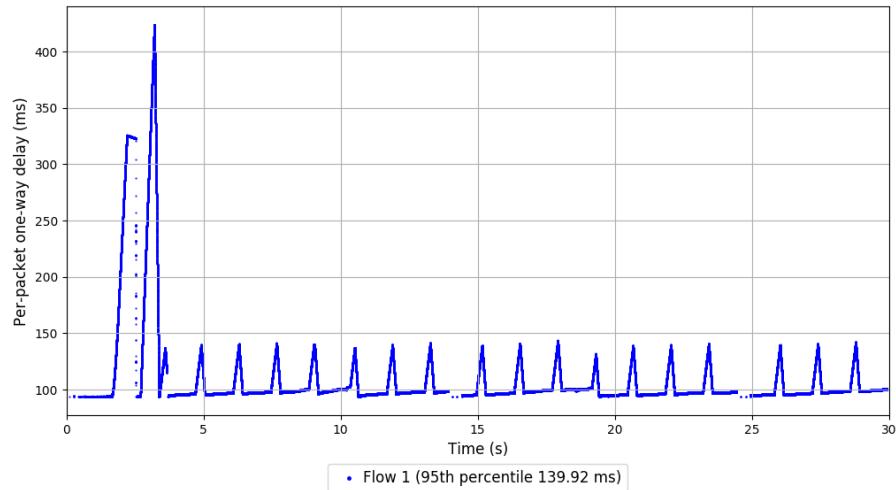
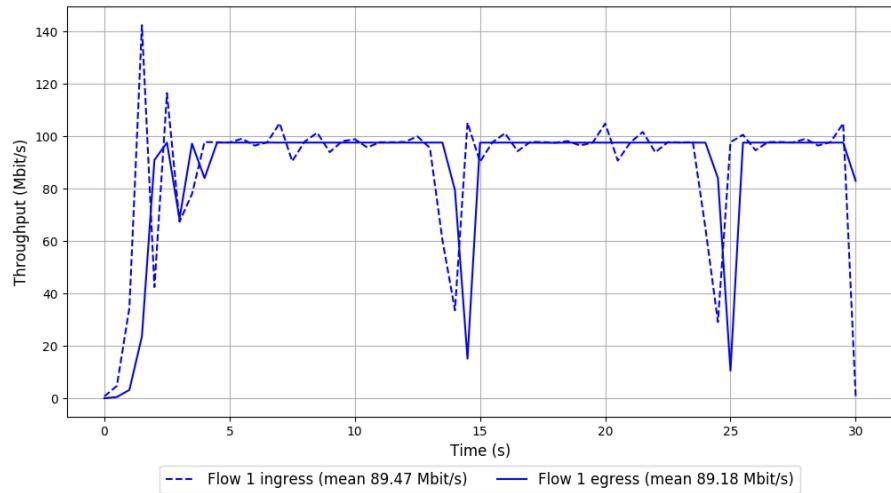


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-27 08:20:10
End at: 2019-03-27 08:20:40
Local clock offset: -4.926 ms
Remote clock offset: 11.619 ms

# Below is generated by plot.py at 2019-03-27 08:37:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.18 Mbit/s
95th percentile per-packet one-way delay: 139.921 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 89.18 Mbit/s
95th percentile per-packet one-way delay: 139.921 ms
Loss rate: 0.90%
```

Run 5: Report of TCP BBR — Data Link

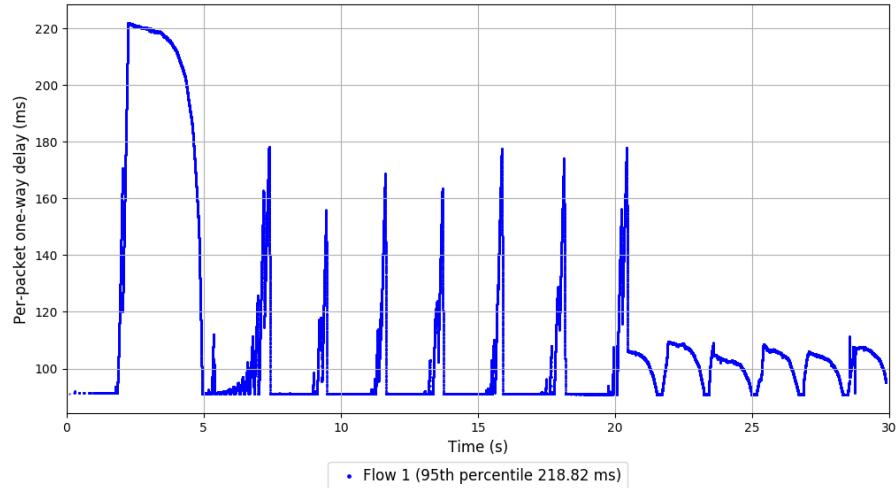
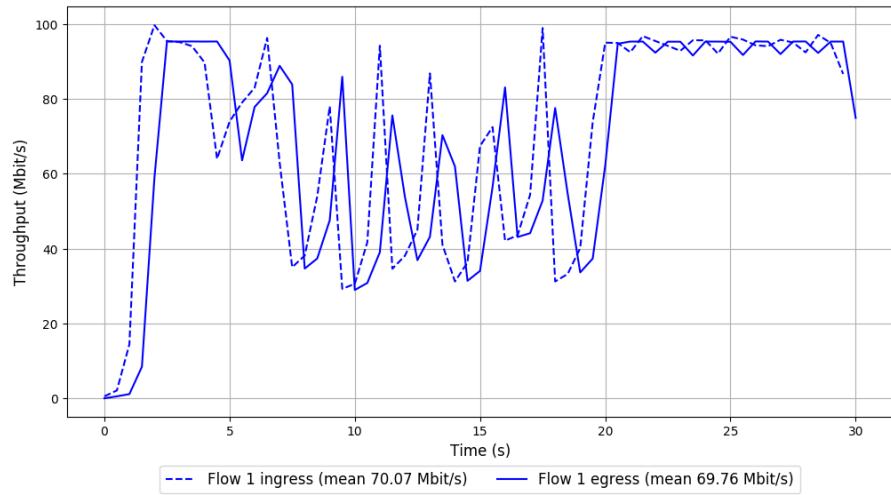


Run 1: Statistics of Copa

```
Start at: 2019-03-27 06:38:10
End at: 2019-03-27 06:38:40
Local clock offset: 3.272 ms
Remote clock offset: 12.457 ms

# Below is generated by plot.py at 2019-03-27 08:38:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.76 Mbit/s
95th percentile per-packet one-way delay: 218.824 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 69.76 Mbit/s
95th percentile per-packet one-way delay: 218.824 ms
Loss rate: 1.02%
```

Run 1: Report of Copa — Data Link

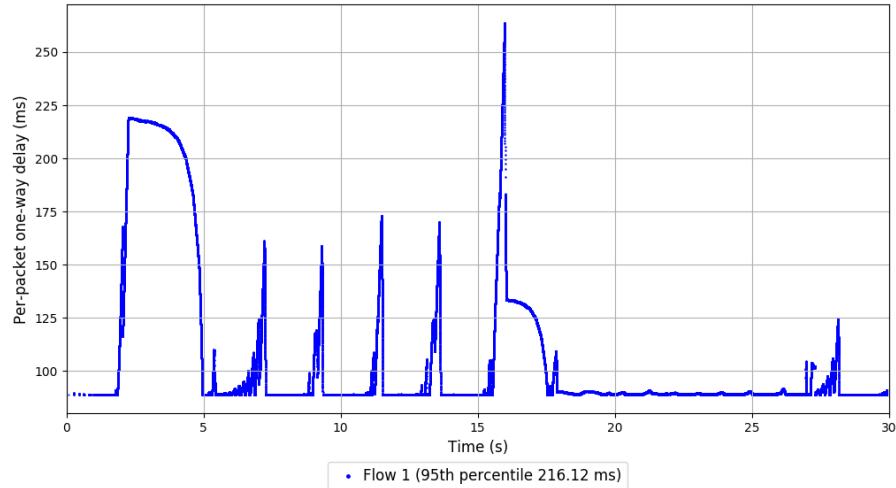
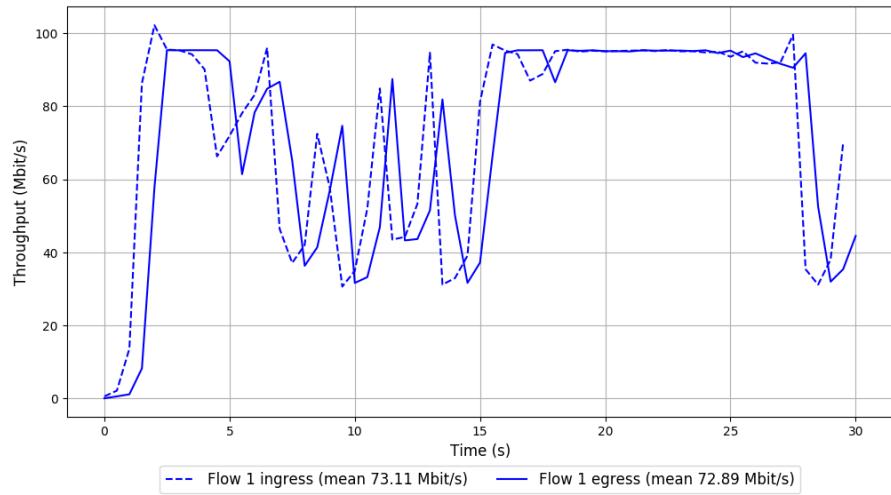


Run 2: Statistics of Copa

```
Start at: 2019-03-27 07:03:05
End at: 2019-03-27 07:03:35
Local clock offset: 1.959 ms
Remote clock offset: 3.908 ms

# Below is generated by plot.py at 2019-03-27 08:38:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.89 Mbit/s
95th percentile per-packet one-way delay: 216.121 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 72.89 Mbit/s
95th percentile per-packet one-way delay: 216.121 ms
Loss rate: 0.86%
```

Run 2: Report of Copa — Data Link

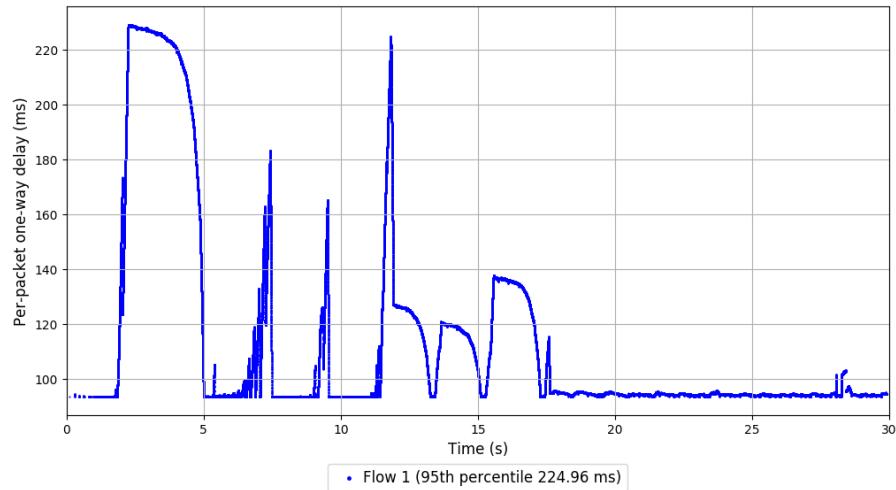
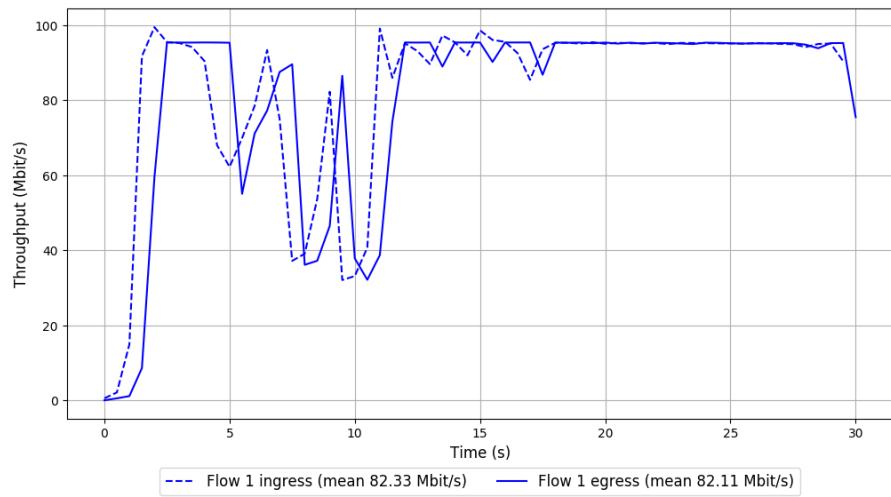


Run 3: Statistics of Copa

```
Start at: 2019-03-27 07:27:58
End at: 2019-03-27 07:28:28
Local clock offset: -2.247 ms
Remote clock offset: 0.103 ms

# Below is generated by plot.py at 2019-03-27 08:38:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.11 Mbit/s
95th percentile per-packet one-way delay: 224.964 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 82.11 Mbit/s
95th percentile per-packet one-way delay: 224.964 ms
Loss rate: 0.84%
```

Run 3: Report of Copa — Data Link

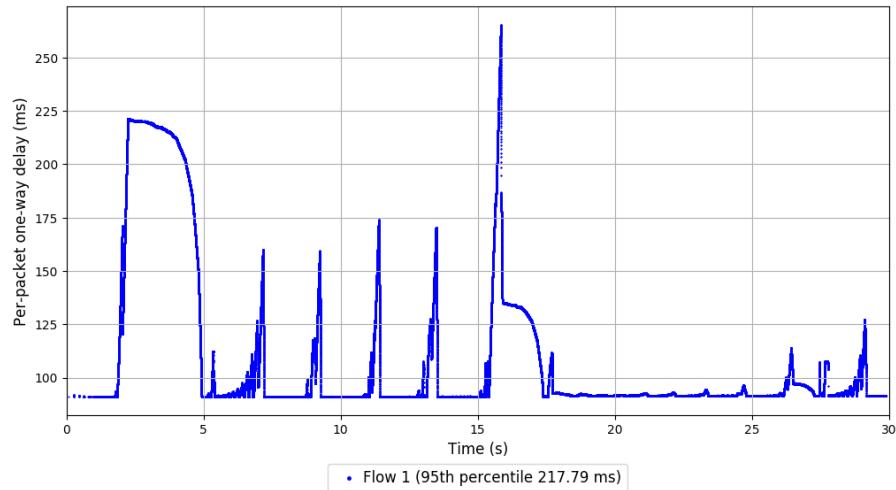
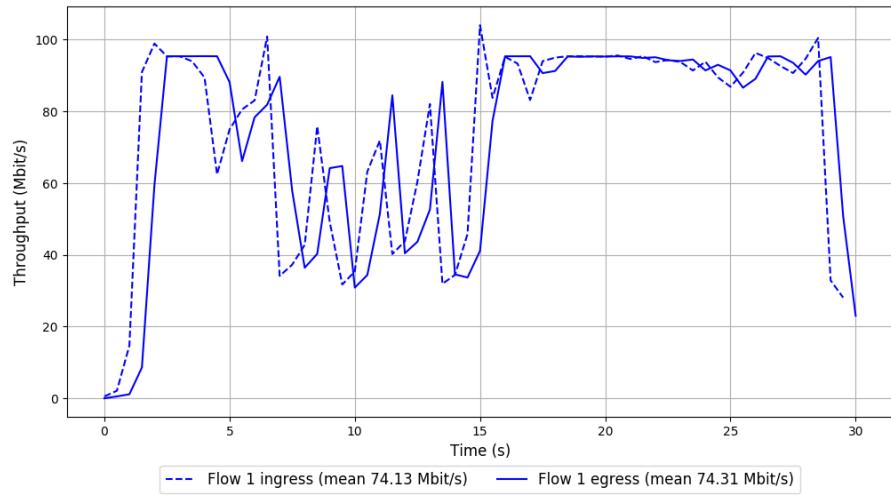


Run 4: Statistics of Copa

```
Start at: 2019-03-27 07:52:55
End at: 2019-03-27 07:53:25
Local clock offset: -4.665 ms
Remote clock offset: 5.82 ms

# Below is generated by plot.py at 2019-03-27 08:39:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.31 Mbit/s
95th percentile per-packet one-way delay: 217.786 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 74.31 Mbit/s
95th percentile per-packet one-way delay: 217.786 ms
Loss rate: 0.33%
```

Run 4: Report of Copa — Data Link

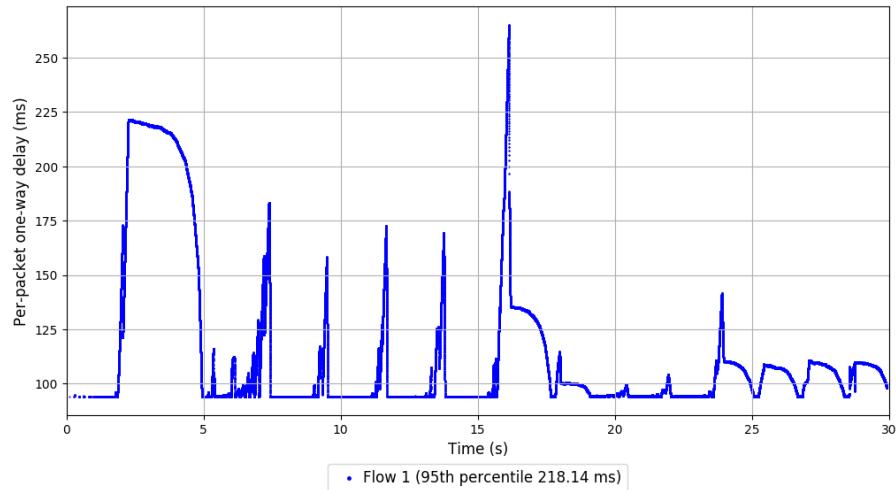
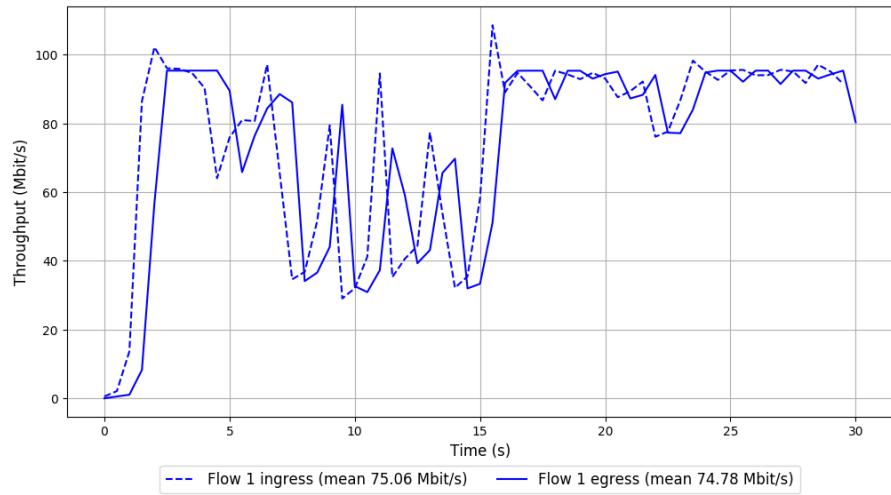


Run 5: Statistics of Copa

```
Start at: 2019-03-27 08:17:49
End at: 2019-03-27 08:18:19
Local clock offset: -4.877 ms
Remote clock offset: 11.168 ms

# Below is generated by plot.py at 2019-03-27 08:39:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.78 Mbit/s
95th percentile per-packet one-way delay: 218.141 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 74.78 Mbit/s
95th percentile per-packet one-way delay: 218.141 ms
Loss rate: 0.95%
```

Run 5: Report of Copa — Data Link

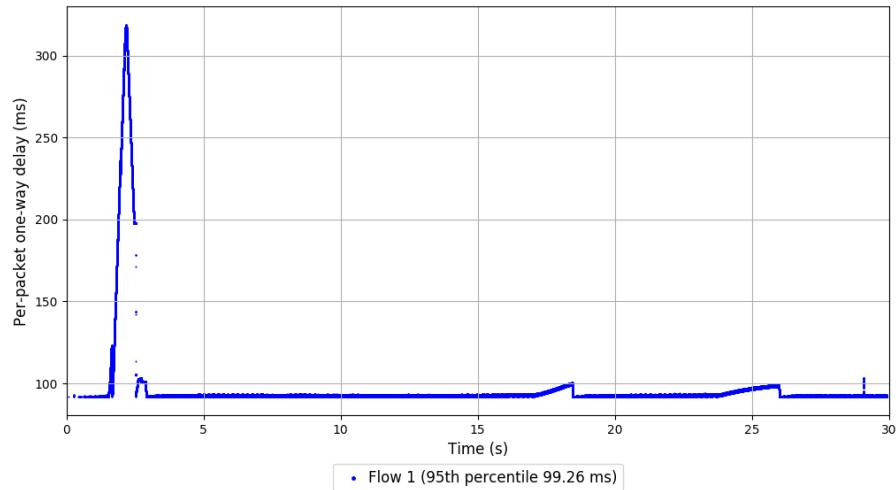
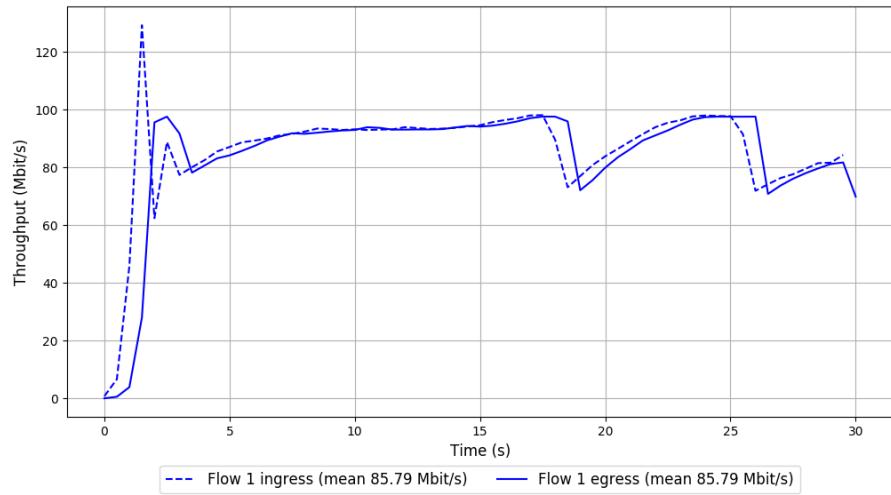


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-03-27 06:53:32
End at: 2019-03-27 06:54:02
Local clock offset: 2.435 ms
Remote clock offset: 2.509 ms

# Below is generated by plot.py at 2019-03-27 08:39:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.79 Mbit/s
95th percentile per-packet one-way delay: 99.257 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 85.79 Mbit/s
95th percentile per-packet one-way delay: 99.257 ms
Loss rate: 0.58%
```

Run 1: Report of TCP Cubic — Data Link

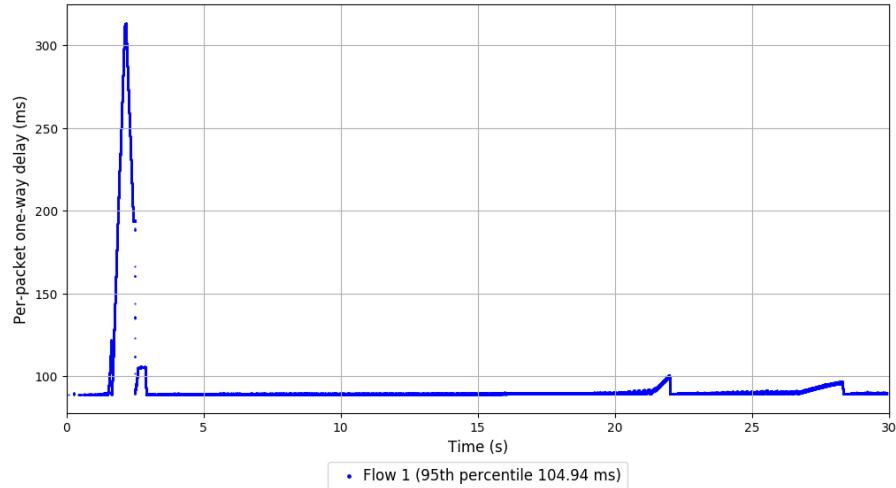
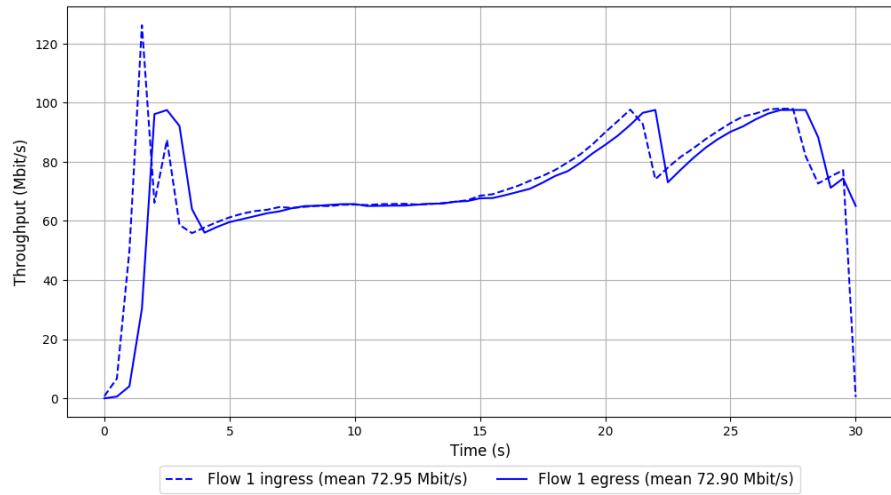


Run 2: Statistics of TCP Cubic

```
Start at: 2019-03-27 07:18:26
End at: 2019-03-27 07:18:56
Local clock offset: 1.104 ms
Remote clock offset: 4.546 ms

# Below is generated by plot.py at 2019-03-27 08:39:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.90 Mbit/s
95th percentile per-packet one-way delay: 104.941 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 72.90 Mbit/s
95th percentile per-packet one-way delay: 104.941 ms
Loss rate: 0.64%
```

Run 2: Report of TCP Cubic — Data Link

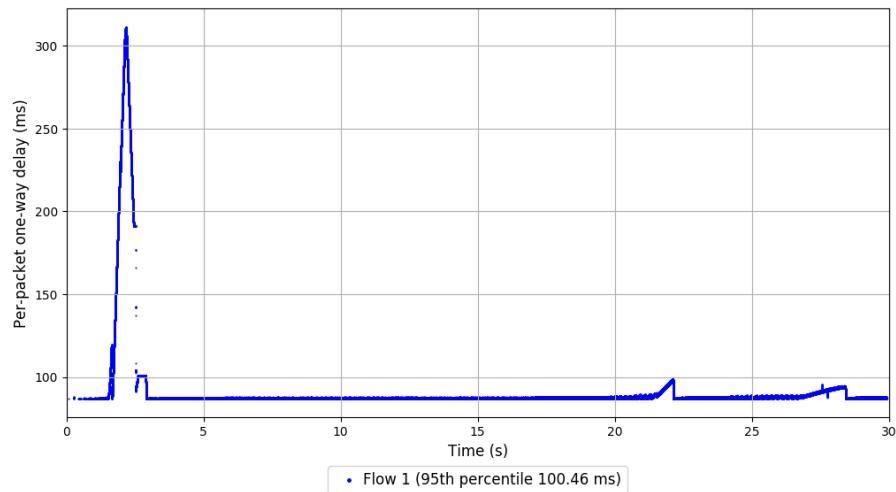
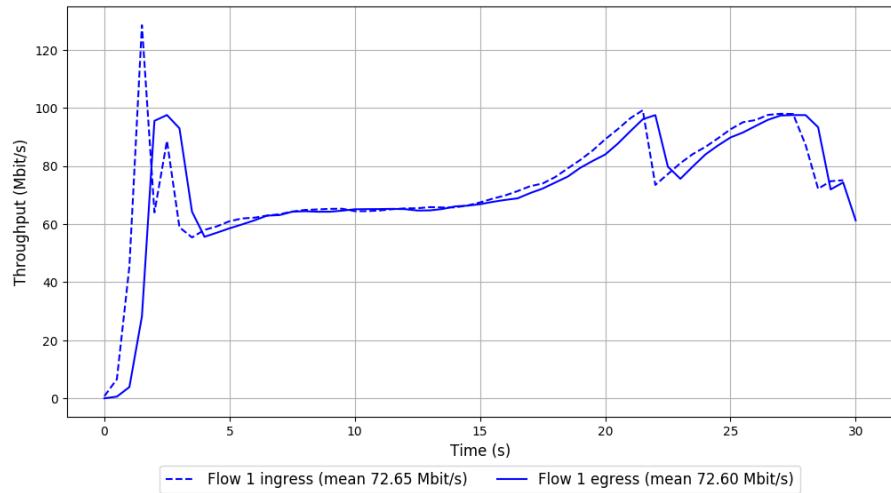


Run 3: Statistics of TCP Cubic

```
Start at: 2019-03-27 07:43:21
End at: 2019-03-27 07:43:51
Local clock offset: -5.269 ms
Remote clock offset: 5.292 ms

# Below is generated by plot.py at 2019-03-27 08:39:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.60 Mbit/s
95th percentile per-packet one-way delay: 100.459 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 72.60 Mbit/s
95th percentile per-packet one-way delay: 100.459 ms
Loss rate: 0.63%
```

Run 3: Report of TCP Cubic — Data Link

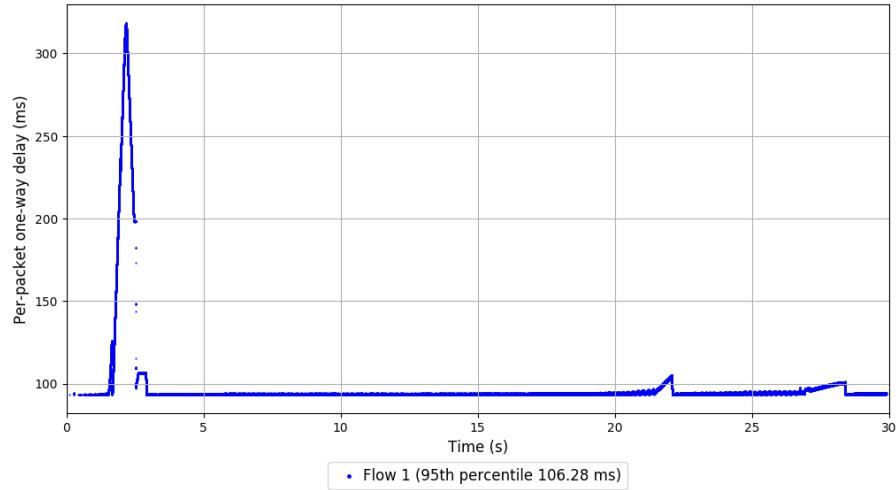
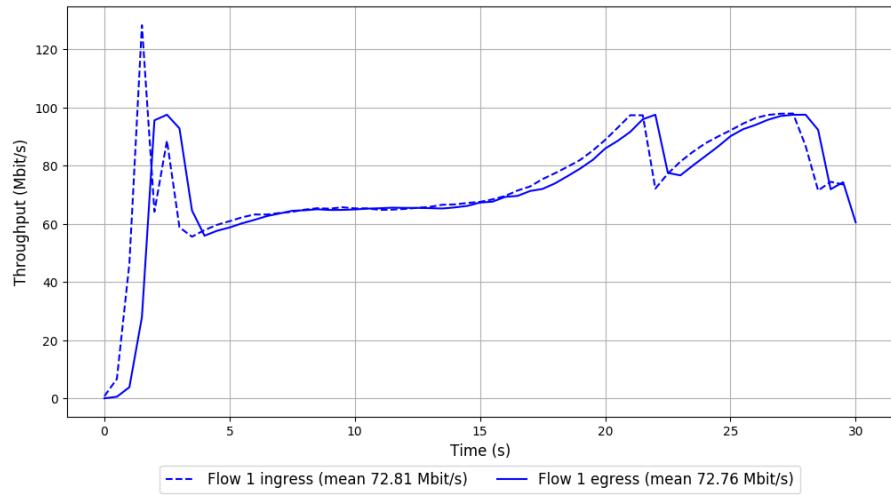


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-27 08:08:17
End at: 2019-03-27 08:08:47
Local clock offset: -3.852 ms
Remote clock offset: 10.299 ms

# Below is generated by plot.py at 2019-03-27 08:39:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.76 Mbit/s
95th percentile per-packet one-way delay: 106.281 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 72.76 Mbit/s
95th percentile per-packet one-way delay: 106.281 ms
Loss rate: 0.63%
```

Run 4: Report of TCP Cubic — Data Link

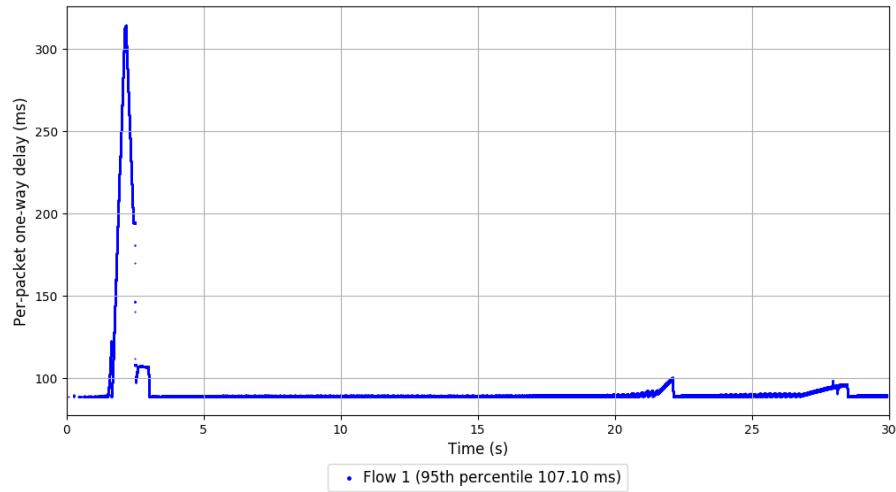
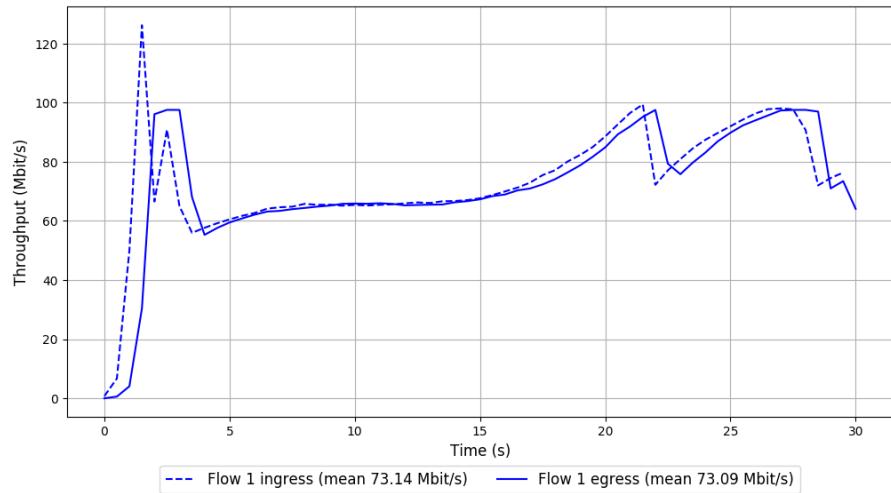


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-27 08:33:12
End at: 2019-03-27 08:33:42
Local clock offset: -5.392 ms
Remote clock offset: 18.855 ms

# Below is generated by plot.py at 2019-03-27 08:39:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.09 Mbit/s
95th percentile per-packet one-way delay: 107.104 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 73.09 Mbit/s
95th percentile per-packet one-way delay: 107.104 ms
Loss rate: 0.63%
```

Run 5: Report of TCP Cubic — Data Link

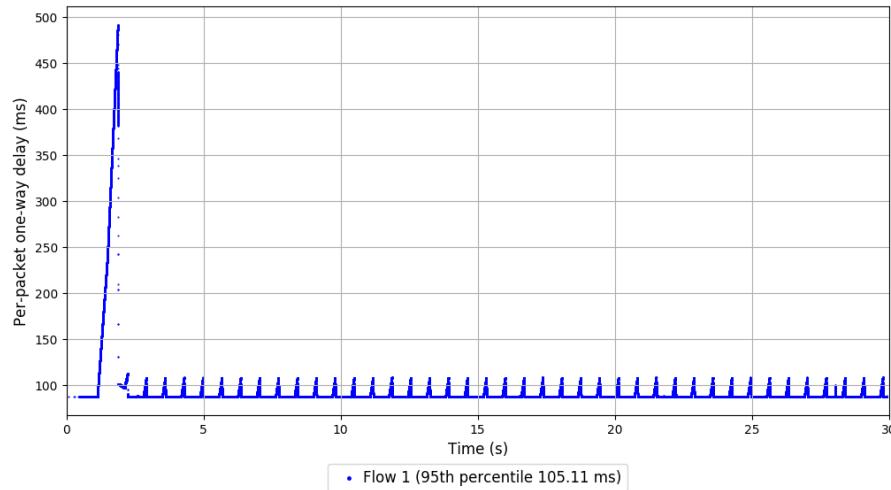
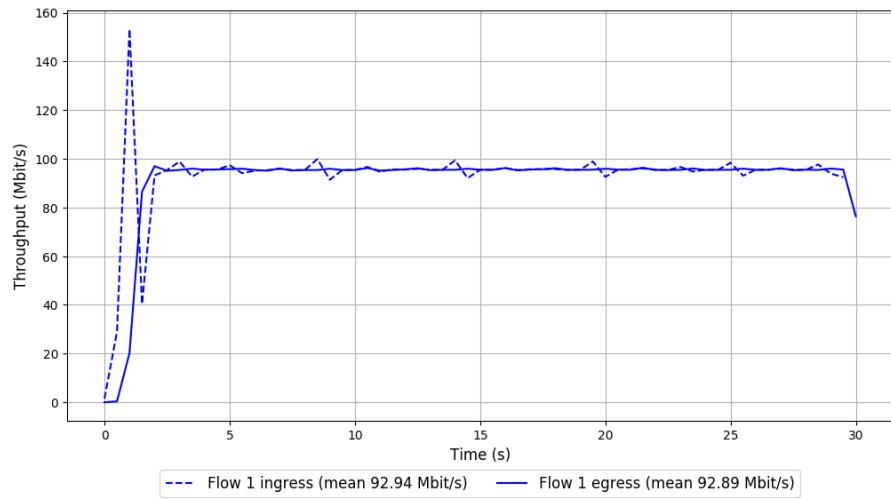


```
Run 1: Statistics of FillP
```

```
Start at: 2019-03-27 06:36:59
End at: 2019-03-27 06:37:29
Local clock offset: 3.233 ms
Remote clock offset: 16.253 ms

# Below is generated by plot.py at 2019-03-27 08:39:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.89 Mbit/s
95th percentile per-packet one-way delay: 105.111 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 92.89 Mbit/s
95th percentile per-packet one-way delay: 105.111 ms
Loss rate: 0.61%
```

Run 1: Report of FillP — Data Link

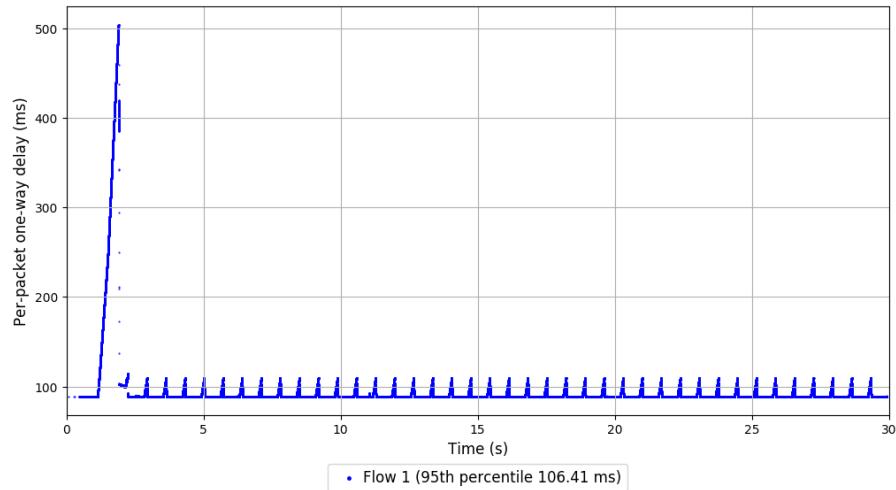
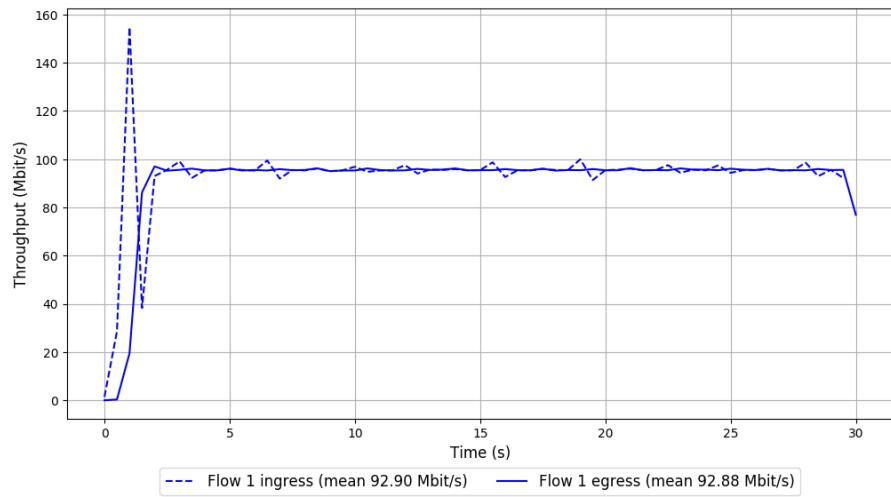


Run 2: Statistics of FillP

```
Start at: 2019-03-27 07:01:54
End at: 2019-03-27 07:02:24
Local clock offset: 2.046 ms
Remote clock offset: 3.989 ms

# Below is generated by plot.py at 2019-03-27 08:39:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 106.413 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 106.413 ms
Loss rate: 0.59%
```

Run 2: Report of FillP — Data Link

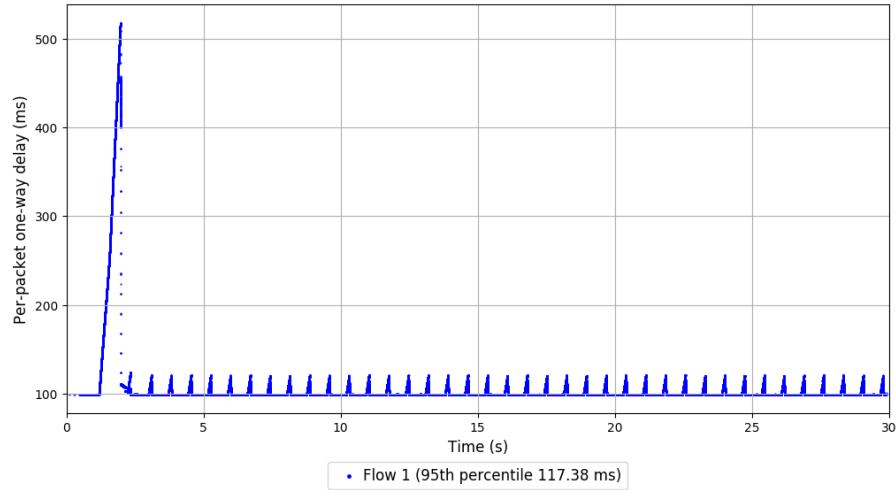
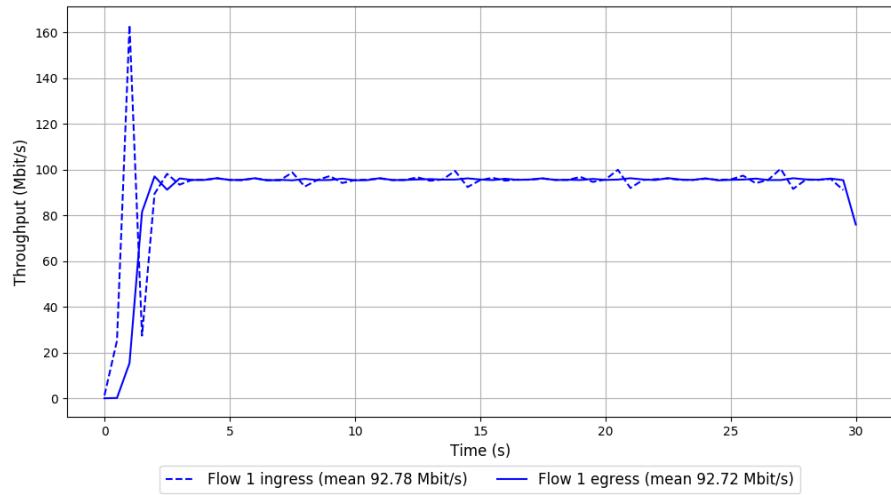


Run 3: Statistics of FillP

```
Start at: 2019-03-27 07:26:47
End at: 2019-03-27 07:27:17
Local clock offset: -2.754 ms
Remote clock offset: 0.112 ms

# Below is generated by plot.py at 2019-03-27 08:39:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 117.380 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 117.380 ms
Loss rate: 0.65%
```

Run 3: Report of FillP — Data Link

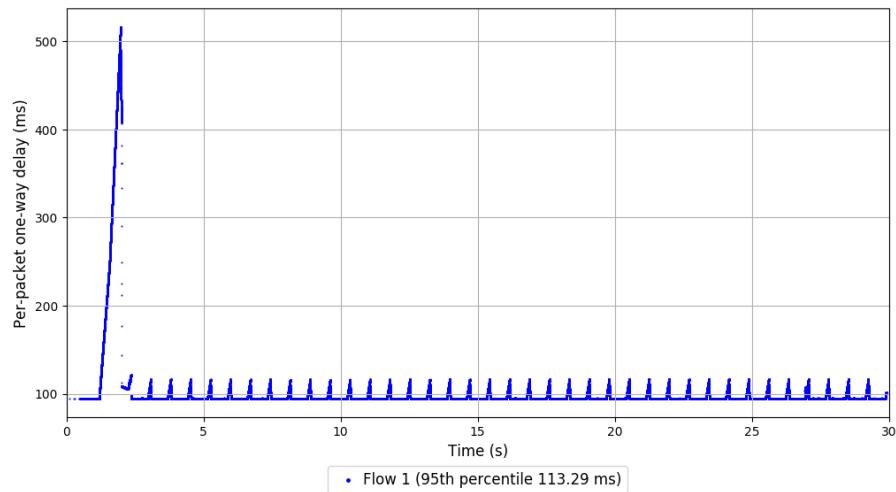
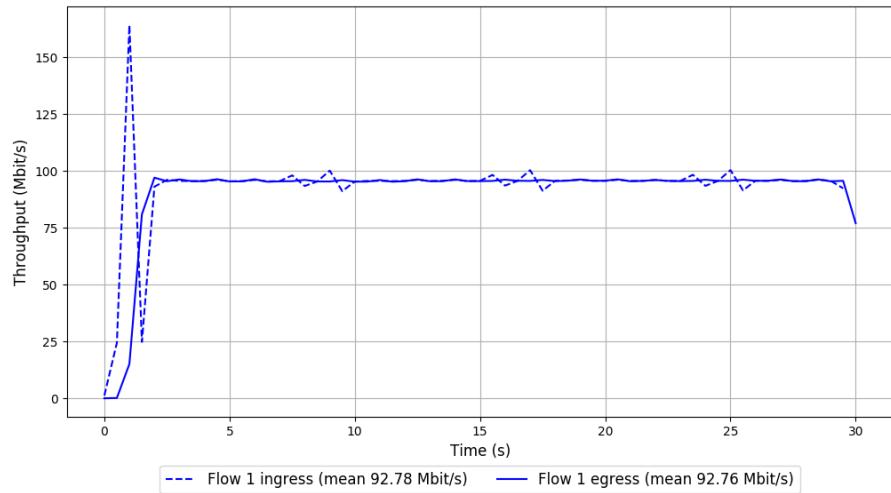


Run 4: Statistics of FillP

```
Start at: 2019-03-27 07:51:43
End at: 2019-03-27 07:52:13
Local clock offset: -4.795 ms
Remote clock offset: 7.69 ms

# Below is generated by plot.py at 2019-03-27 08:39:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.76 Mbit/s
95th percentile per-packet one-way delay: 113.294 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 92.76 Mbit/s
95th percentile per-packet one-way delay: 113.294 ms
Loss rate: 0.62%
```

Run 4: Report of FillP — Data Link

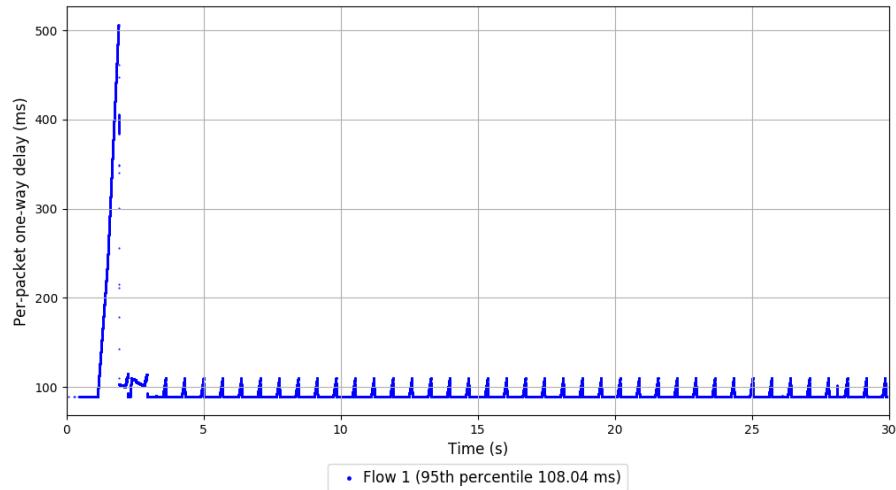
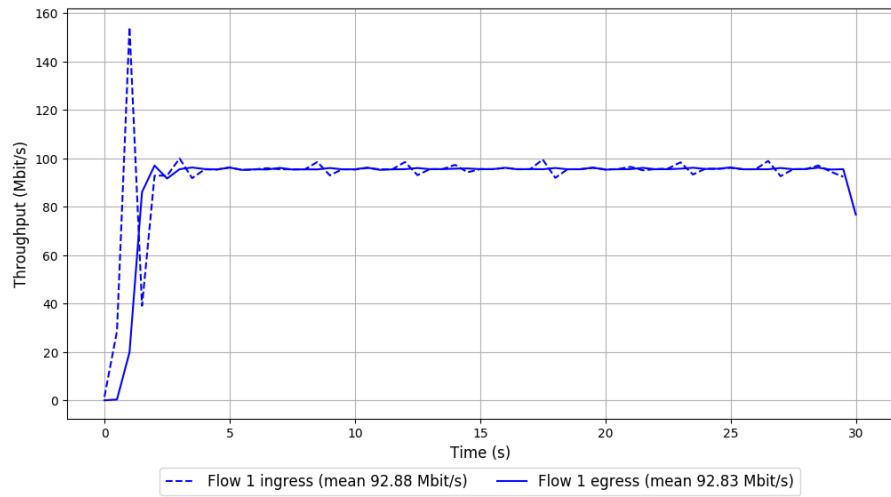


Run 5: Statistics of FillP

```
Start at: 2019-03-27 08:16:38
End at: 2019-03-27 08:17:08
Local clock offset: -4.069 ms
Remote clock offset: 16.031 ms

# Below is generated by plot.py at 2019-03-27 08:40:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.83 Mbit/s
95th percentile per-packet one-way delay: 108.038 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 92.83 Mbit/s
95th percentile per-packet one-way delay: 108.038 ms
Loss rate: 0.62%
```

Run 5: Report of FillP — Data Link

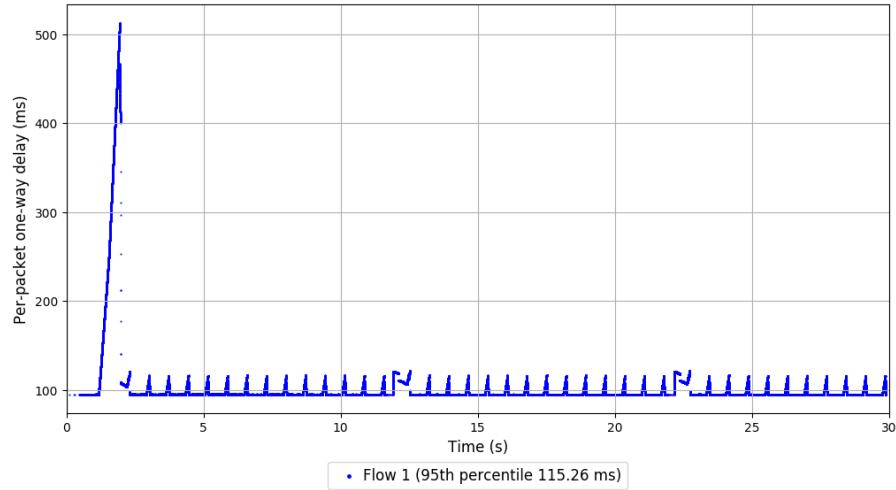
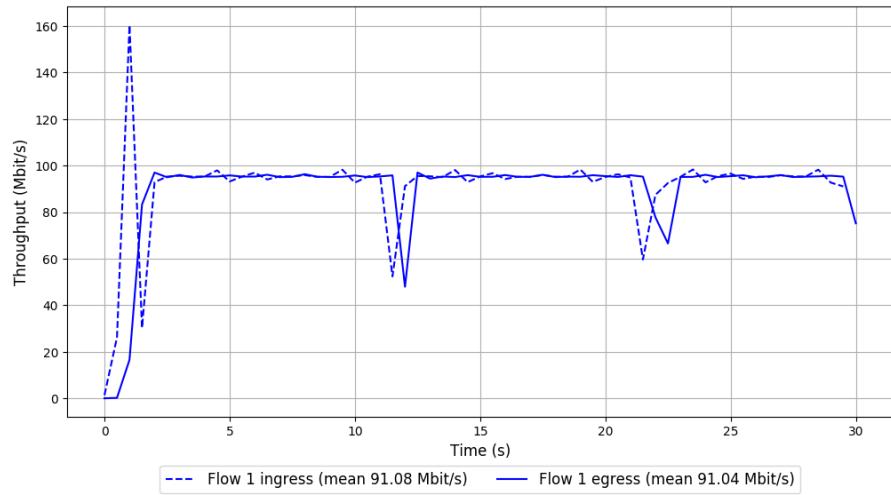


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-03-27 06:42:56
End at: 2019-03-27 06:43:26
Local clock offset: 3.304 ms
Remote clock offset: 10.243 ms

# Below is generated by plot.py at 2019-03-27 08:40:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.04 Mbit/s
95th percentile per-packet one-way delay: 115.259 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 91.04 Mbit/s
95th percentile per-packet one-way delay: 115.259 ms
Loss rate: 0.64%
```

Run 1: Report of FillP-Sheep — Data Link

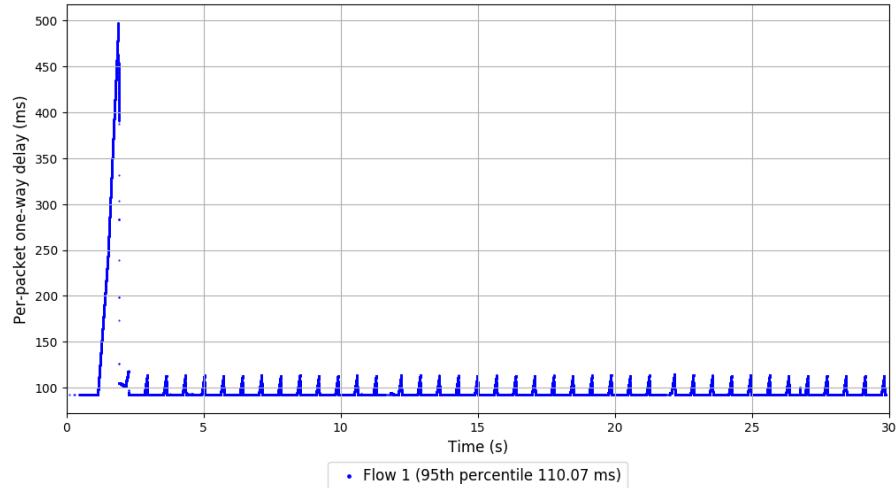
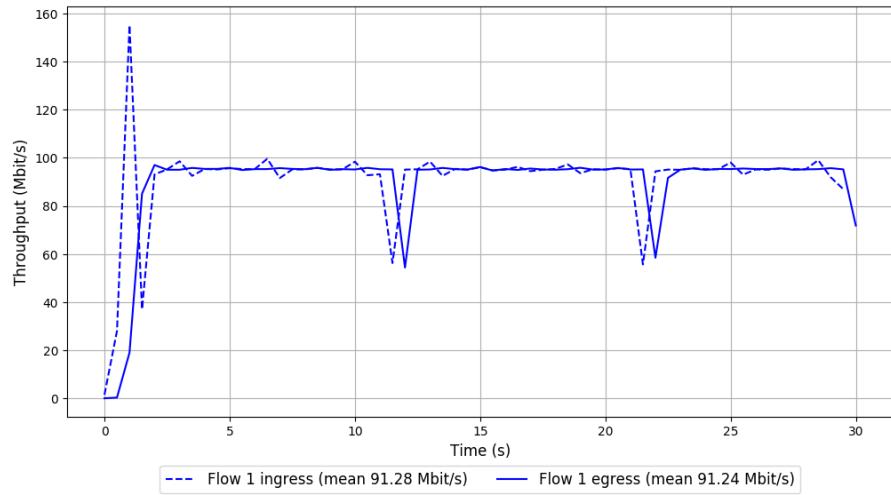


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-27 07:07:50
End at: 2019-03-27 07:08:20
Local clock offset: 2.711 ms
Remote clock offset: 0.753 ms

# Below is generated by plot.py at 2019-03-27 08:40:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.24 Mbit/s
95th percentile per-packet one-way delay: 110.072 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 91.24 Mbit/s
95th percentile per-packet one-way delay: 110.072 ms
Loss rate: 0.61%
```

Run 2: Report of FillP-Sheep — Data Link

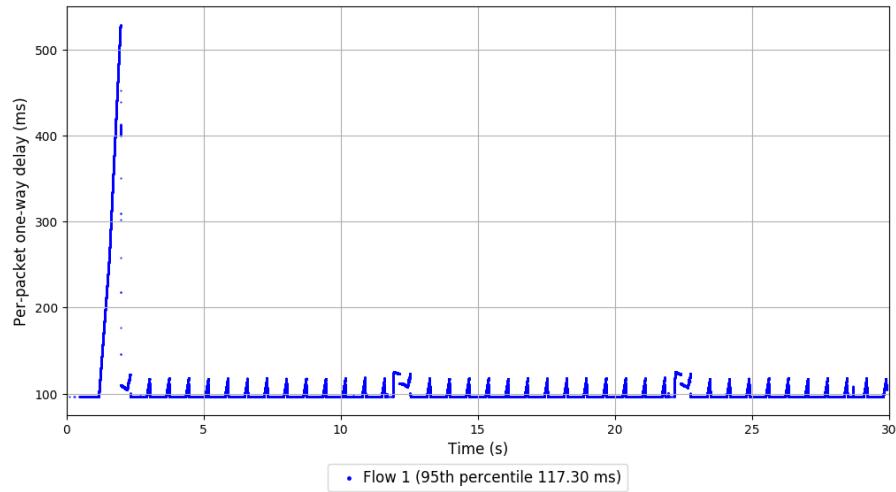
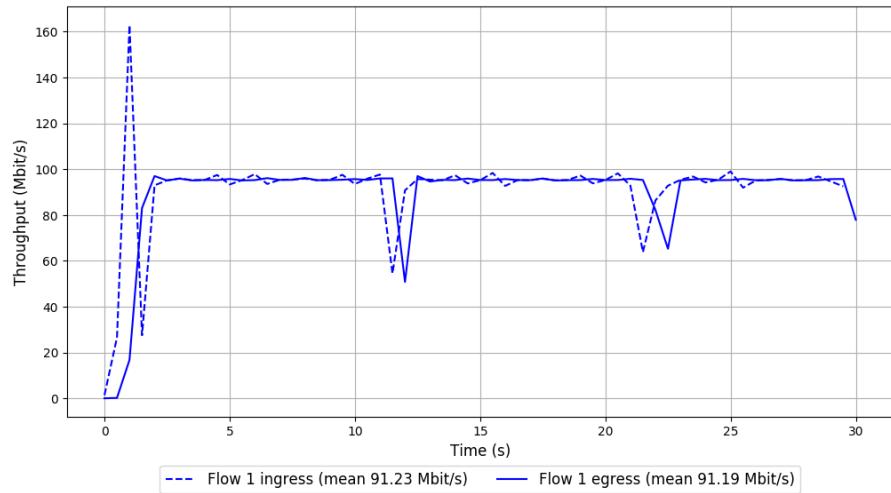


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-27 07:32:44
End at: 2019-03-27 07:33:14
Local clock offset: -3.936 ms
Remote clock offset: 2.406 ms

# Below is generated by plot.py at 2019-03-27 08:40:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.19 Mbit/s
95th percentile per-packet one-way delay: 117.297 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 91.19 Mbit/s
95th percentile per-packet one-way delay: 117.297 ms
Loss rate: 0.63%
```

Run 3: Report of FillP-Sheep — Data Link

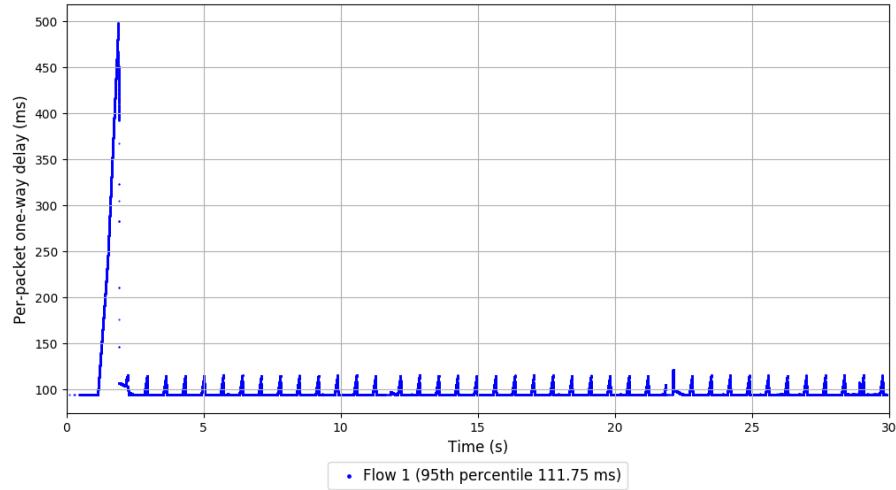
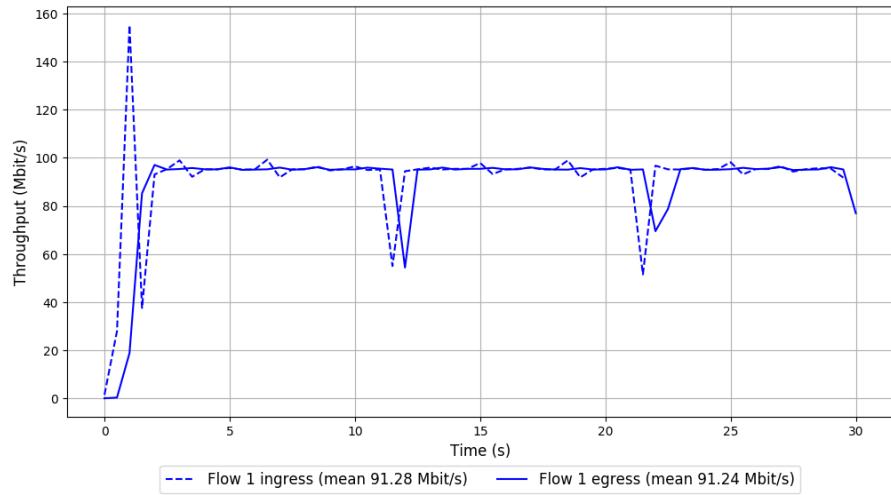


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-27 07:57:40
End at: 2019-03-27 07:58:10
Local clock offset: -4.487 ms
Remote clock offset: 5.527 ms

# Below is generated by plot.py at 2019-03-27 08:40:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.24 Mbit/s
95th percentile per-packet one-way delay: 111.747 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 91.24 Mbit/s
95th percentile per-packet one-way delay: 111.747 ms
Loss rate: 0.61%
```

Run 4: Report of FillP-Sheep — Data Link

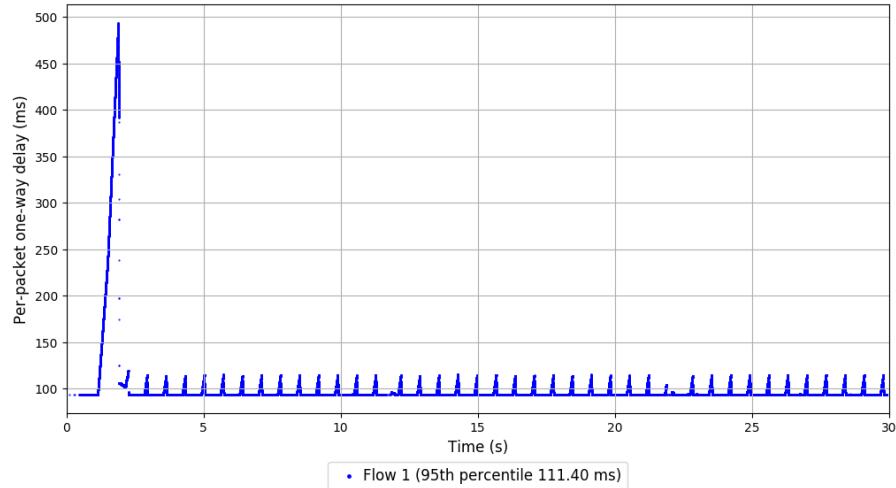
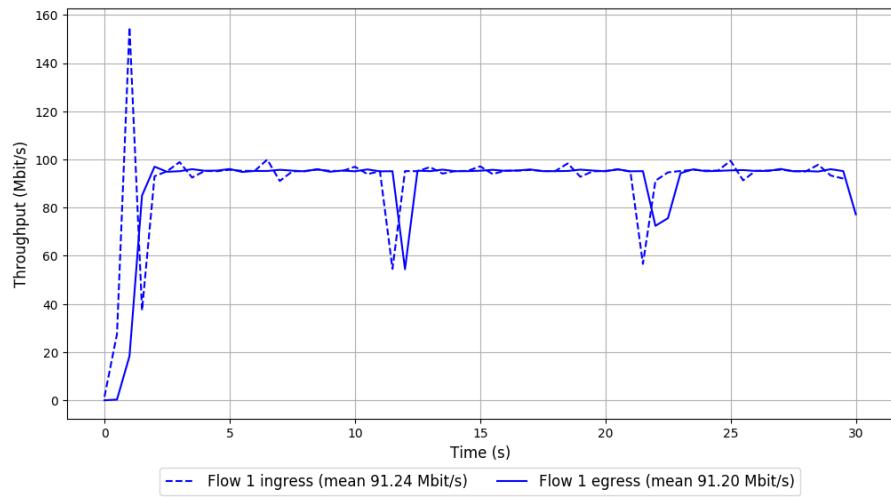


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-27 08:22:34
End at: 2019-03-27 08:23:04
Local clock offset: -4.226 ms
Remote clock offset: 13.065 ms

# Below is generated by plot.py at 2019-03-27 08:40:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 111.401 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 111.401 ms
Loss rate: 0.61%
```

Run 5: Report of FillP-Sheep — Data Link

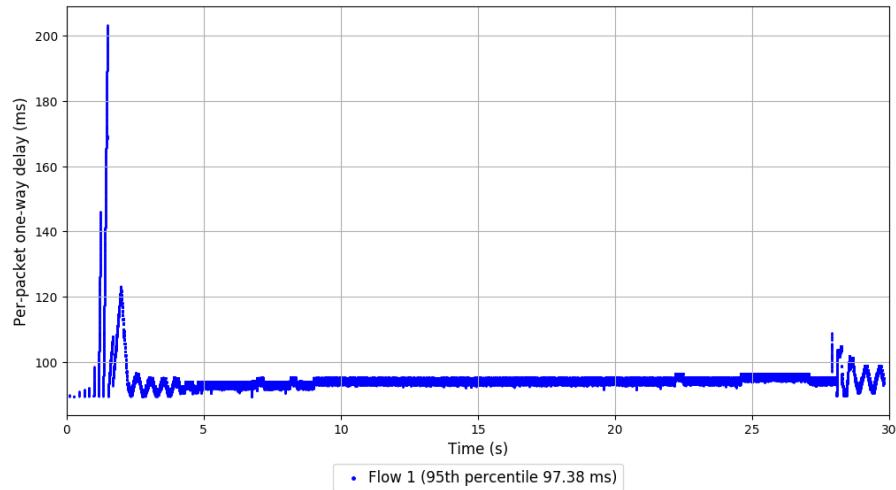
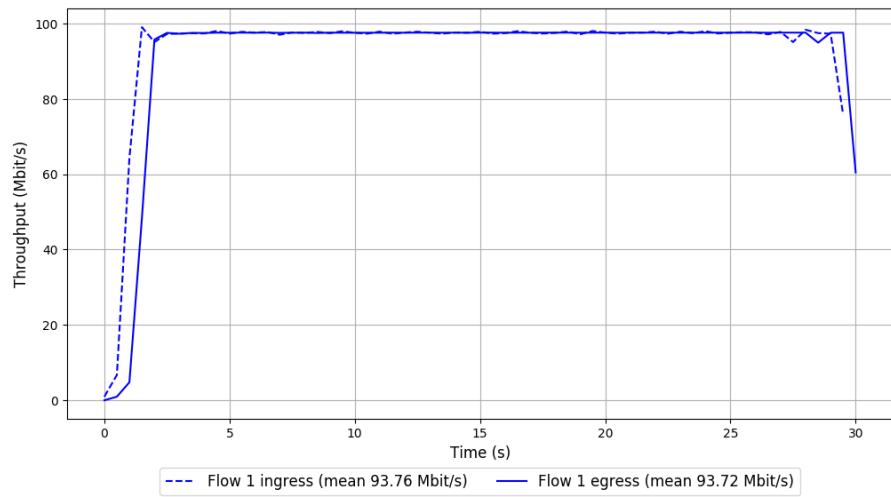


Run 1: Statistics of Indigo

```
Start at: 2019-03-27 06:34:35
End at: 2019-03-27 06:35:05
Local clock offset: 4.079 ms
Remote clock offset: 15.012 ms

# Below is generated by plot.py at 2019-03-27 08:40:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 97.383 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 97.383 ms
Loss rate: 0.62%
```

Run 1: Report of Indigo — Data Link

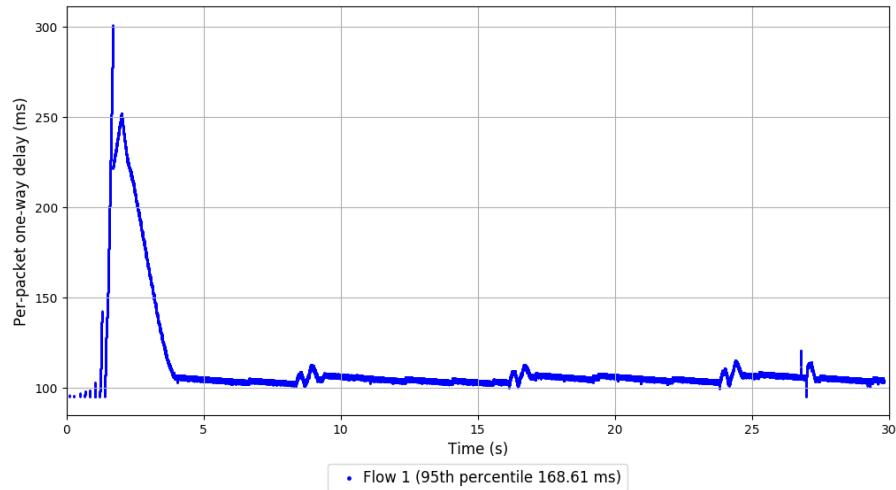
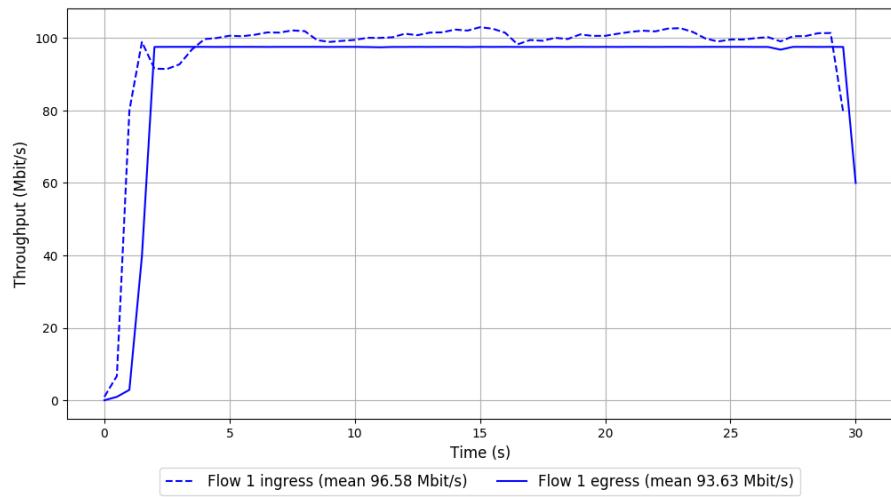


Run 2: Statistics of Indigo

```
Start at: 2019-03-27 06:59:31
End at: 2019-03-27 07:00:01
Local clock offset: 2.072 ms
Remote clock offset: 4.526 ms

# Below is generated by plot.py at 2019-03-27 08:40:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 168.613 ms
Loss rate: 3.63%
-- Flow 1:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 168.613 ms
Loss rate: 3.63%
```

Run 2: Report of Indigo — Data Link

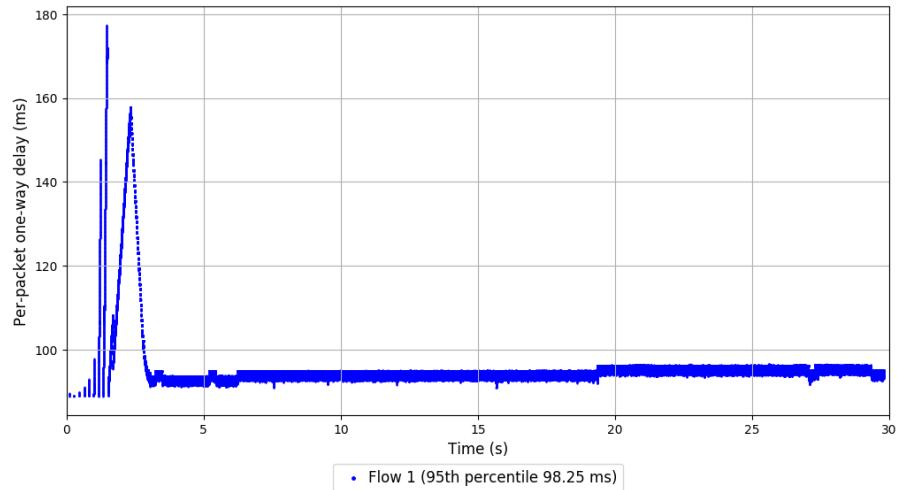
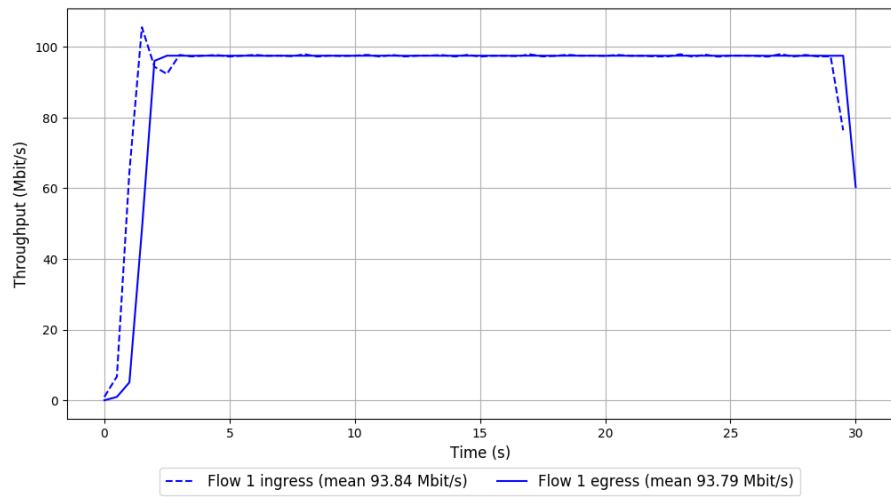


Run 3: Statistics of Indigo

```
Start at: 2019-03-27 07:24:25
End at: 2019-03-27 07:24:55
Local clock offset: -1.287 ms
Remote clock offset: 4.867 ms

# Below is generated by plot.py at 2019-03-27 08:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.79 Mbit/s
95th percentile per-packet one-way delay: 98.249 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 93.79 Mbit/s
95th percentile per-packet one-way delay: 98.249 ms
Loss rate: 0.64%
```

Run 3: Report of Indigo — Data Link

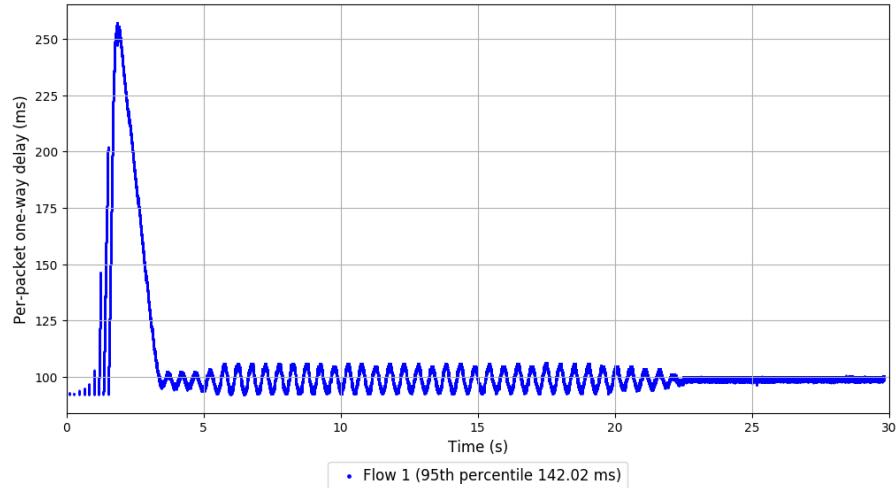
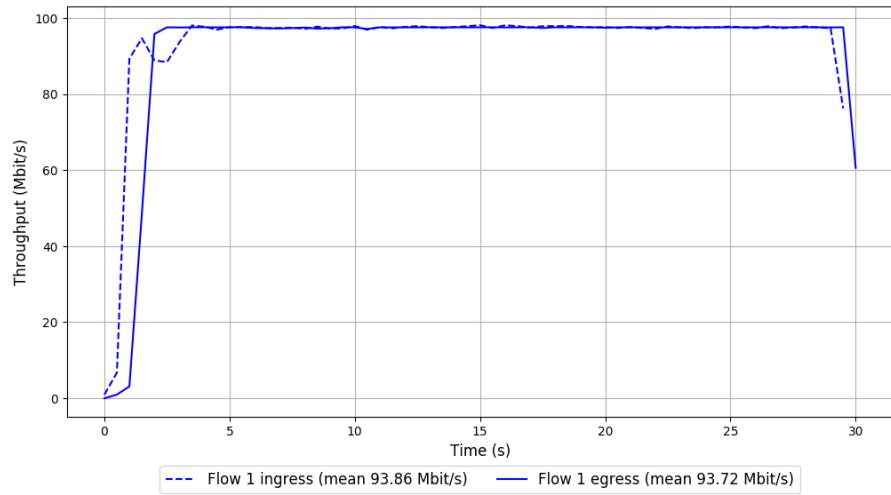


Run 4: Statistics of Indigo

```
Start at: 2019-03-27 07:49:21
End at: 2019-03-27 07:49:51
Local clock offset: -4.99 ms
Remote clock offset: 1.654 ms

# Below is generated by plot.py at 2019-03-27 08:41:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 142.016 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 142.016 ms
Loss rate: 0.71%
```

Run 4: Report of Indigo — Data Link

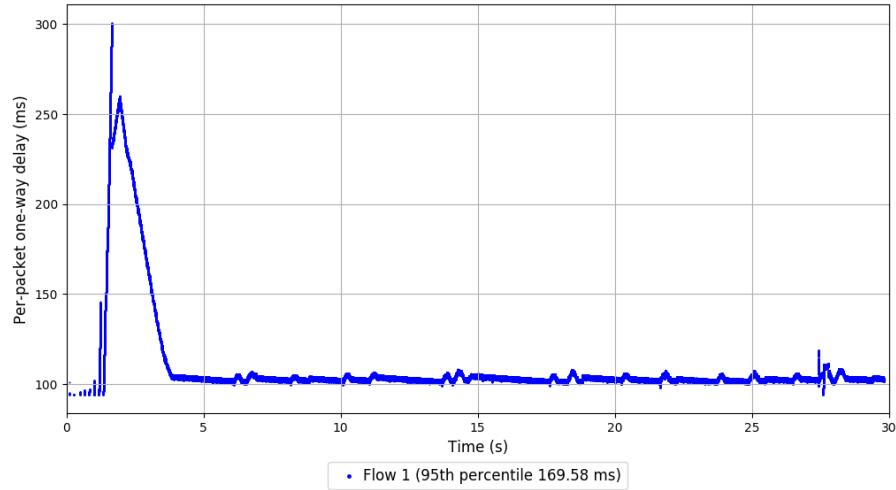
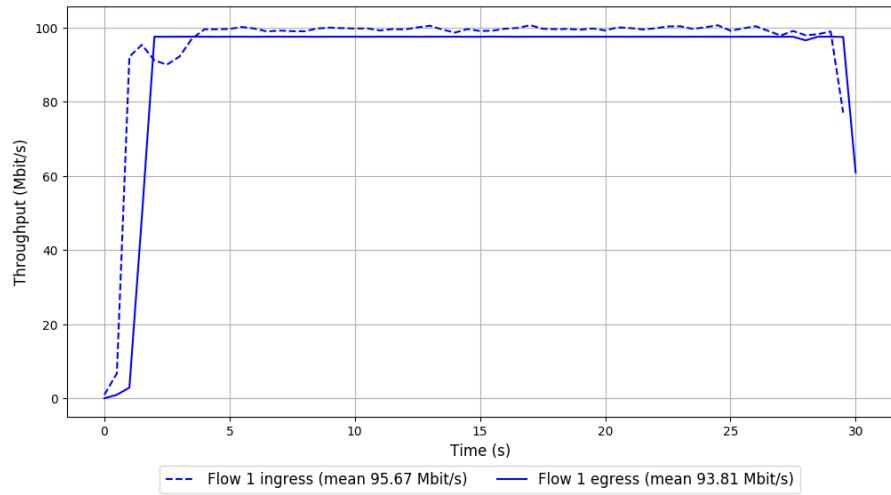


Run 5: Statistics of Indigo

```
Start at: 2019-03-27 08:14:15
End at: 2019-03-27 08:14:45
Local clock offset: -4.773 ms
Remote clock offset: 10.438 ms

# Below is generated by plot.py at 2019-03-27 08:41:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 169.578 ms
Loss rate: 2.53%
-- Flow 1:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 169.578 ms
Loss rate: 2.53%
```

Run 5: Report of Indigo — Data Link

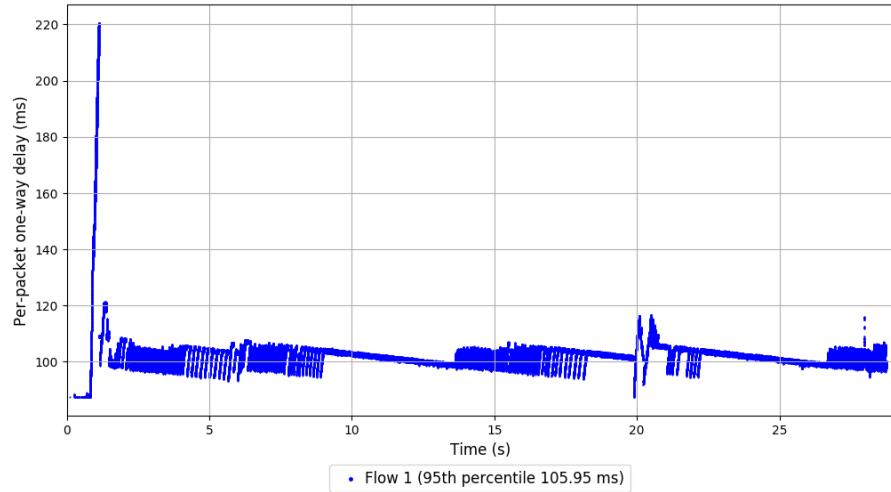
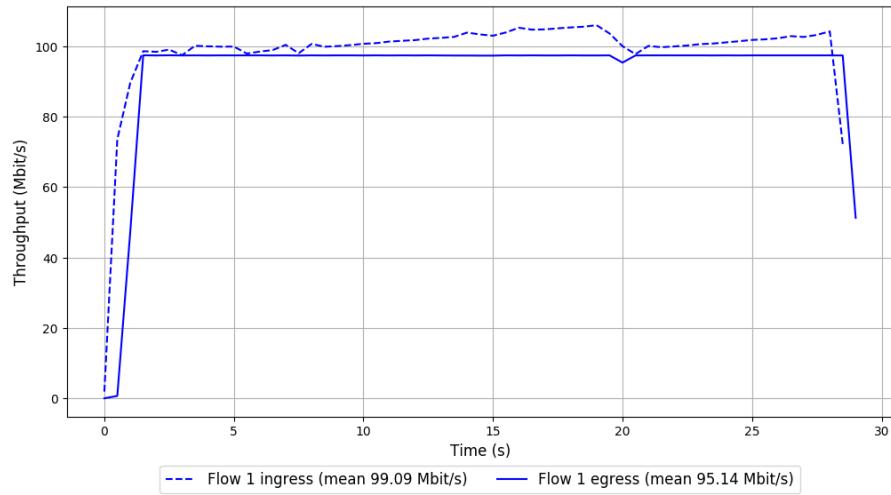


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 06:54:44
End at: 2019-03-27 06:55:14
Local clock offset: 3.145 ms
Remote clock offset: 7.466 ms

# Below is generated by plot.py at 2019-03-27 08:41:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.14 Mbit/s
95th percentile per-packet one-way delay: 105.952 ms
Loss rate: 4.55%
-- Flow 1:
Average throughput: 95.14 Mbit/s
95th percentile per-packet one-way delay: 105.952 ms
Loss rate: 4.55%
```

Run 1: Report of Indigo-MusesC3 — Data Link

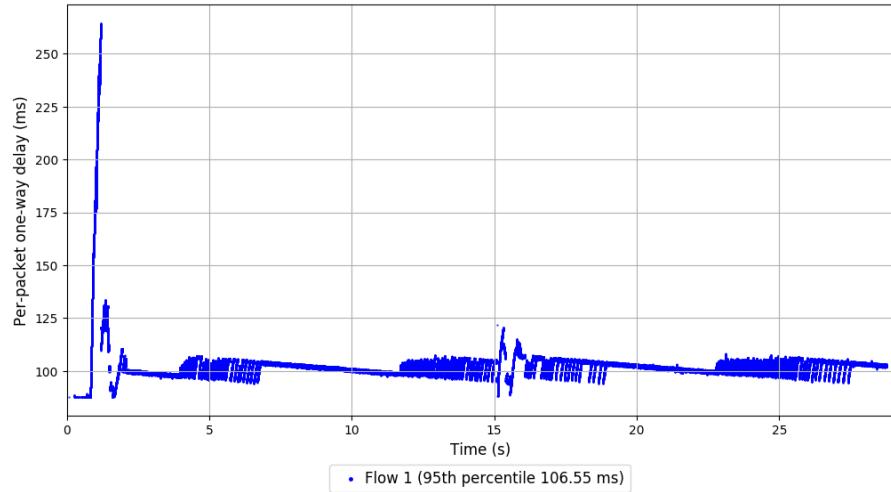
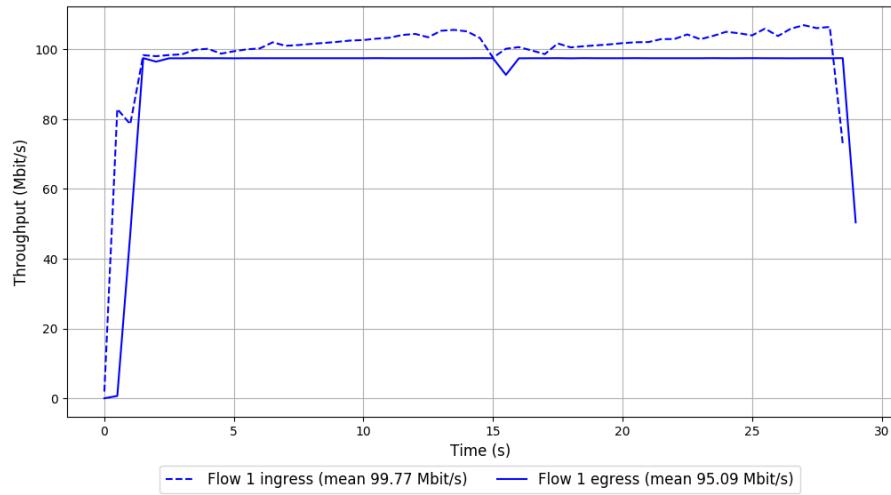


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 07:19:38
End at: 2019-03-27 07:20:08
Local clock offset: -0.163 ms
Remote clock offset: 4.825 ms

# Below is generated by plot.py at 2019-03-27 08:41:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 106.547 ms
Loss rate: 5.25%
-- Flow 1:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 106.547 ms
Loss rate: 5.25%
```

Run 2: Report of Indigo-MusesC3 — Data Link

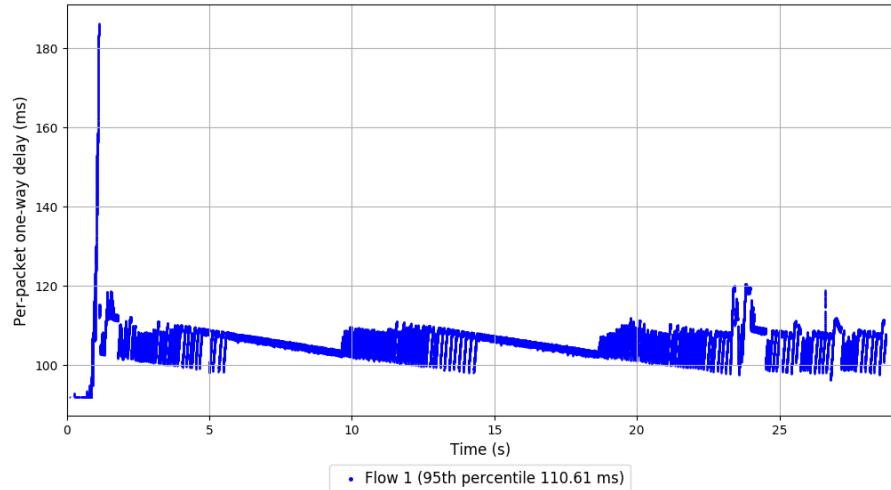
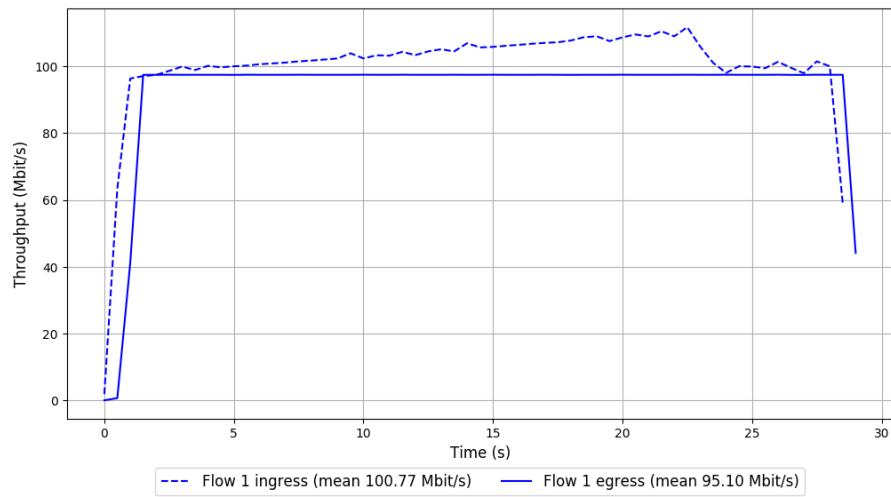


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 07:44:33
End at: 2019-03-27 07:45:03
Local clock offset: -4.6 ms
Remote clock offset: 1.281 ms

# Below is generated by plot.py at 2019-03-27 08:41:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.10 Mbit/s
95th percentile per-packet one-way delay: 110.609 ms
Loss rate: 6.18%
-- Flow 1:
Average throughput: 95.10 Mbit/s
95th percentile per-packet one-way delay: 110.609 ms
Loss rate: 6.18%
```

Run 3: Report of Indigo-MusesC3 — Data Link

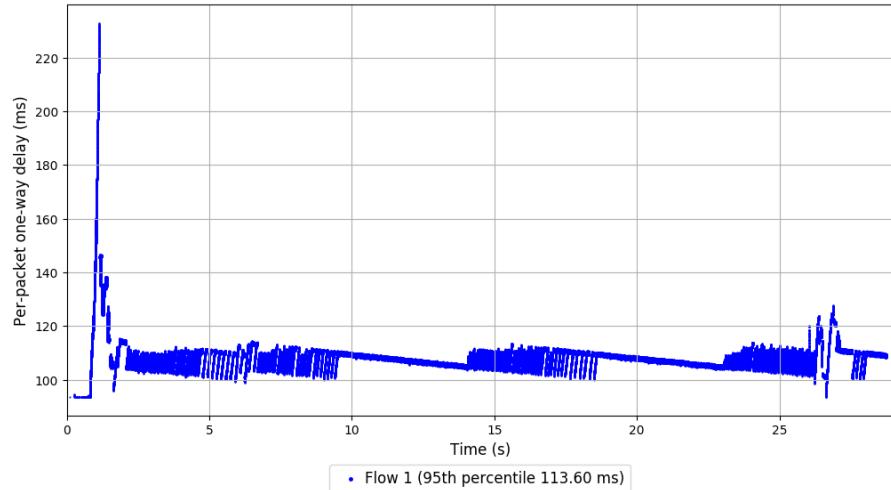
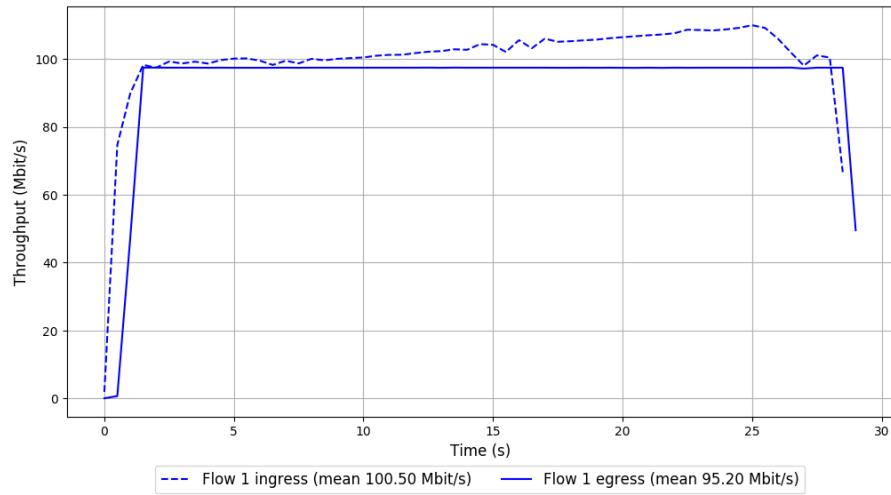


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 08:09:28
End at: 2019-03-27 08:09:58
Local clock offset: -3.85 ms
Remote clock offset: 10.503 ms

# Below is generated by plot.py at 2019-03-27 08:41:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 113.596 ms
Loss rate: 5.83%
-- Flow 1:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 113.596 ms
Loss rate: 5.83%
```

Run 4: Report of Indigo-MusesC3 — Data Link

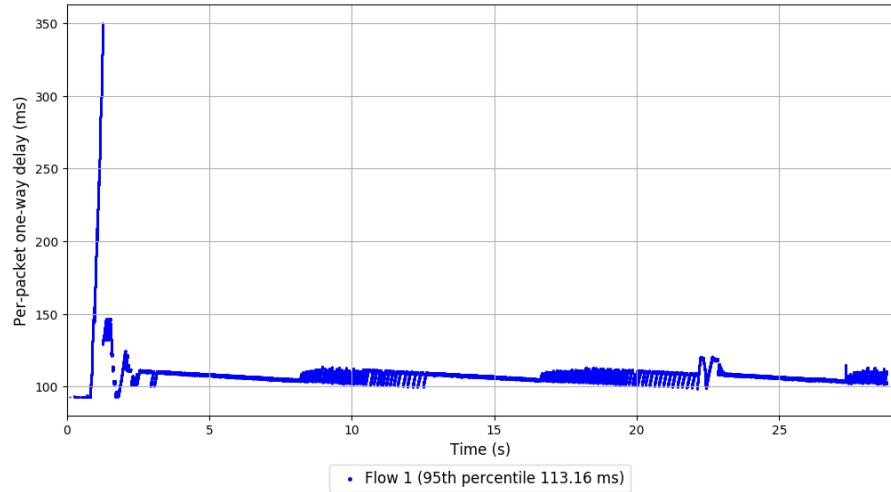
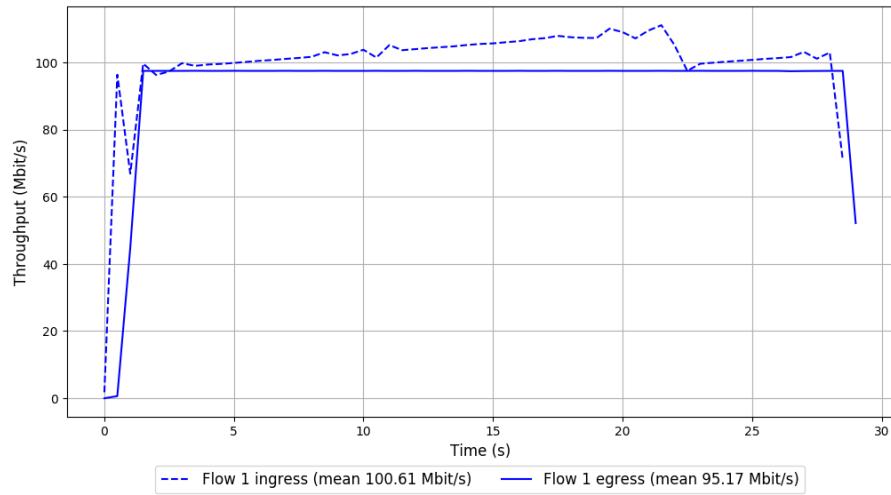


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 08:34:23
End at: 2019-03-27 08:34:53
Local clock offset: -5.464 ms
Remote clock offset: 15.035 ms

# Below is generated by plot.py at 2019-03-27 08:41:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 113.156 ms
Loss rate: 5.97%
-- Flow 1:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 113.156 ms
Loss rate: 5.97%
```

Run 5: Report of Indigo-MusesC3 — Data Link

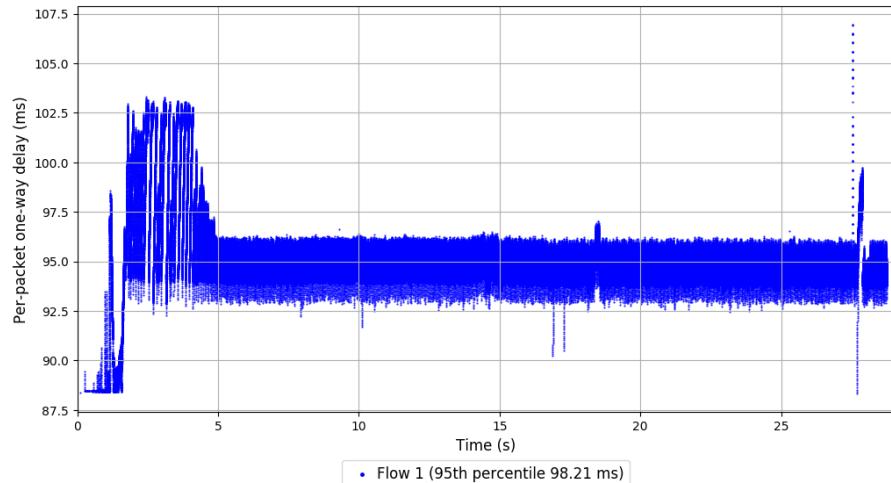
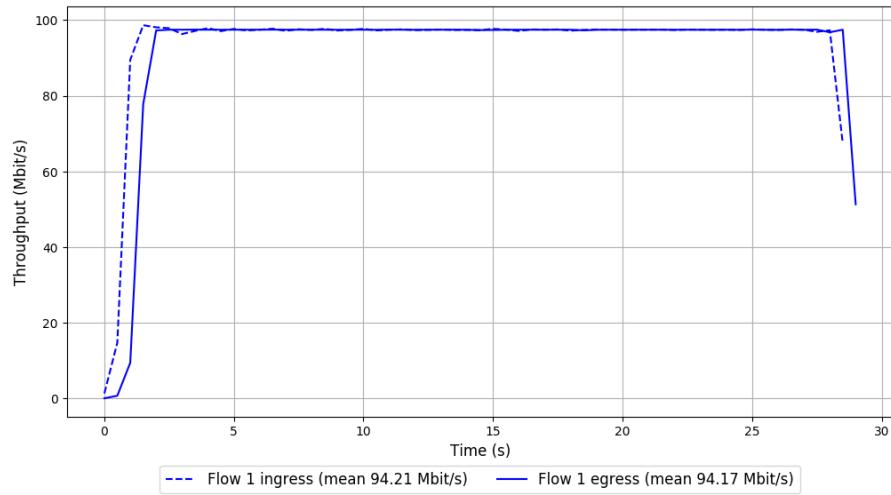


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 06:47:44
End at: 2019-03-27 06:48:14
Local clock offset: 3.867 ms
Remote clock offset: 8.371 ms

# Below is generated by plot.py at 2019-03-27 08:42:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 98.206 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 98.206 ms
Loss rate: 0.64%
```

Run 1: Report of Indigo-MusesC5 — Data Link

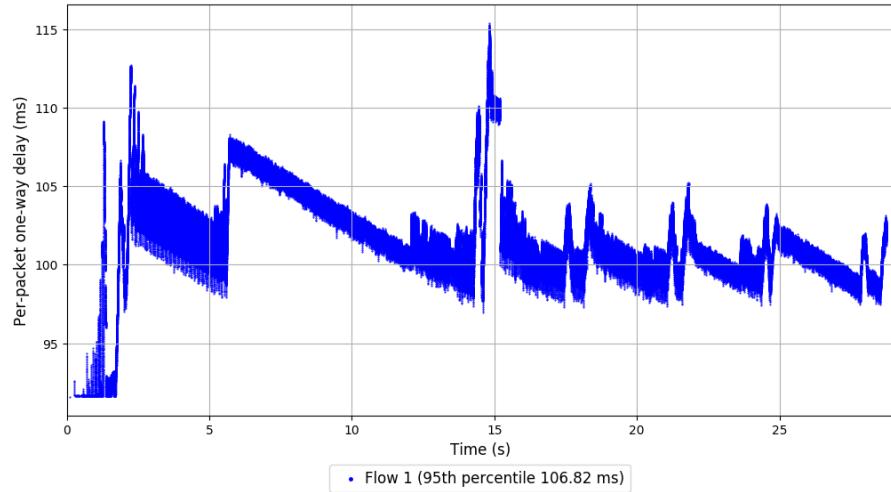
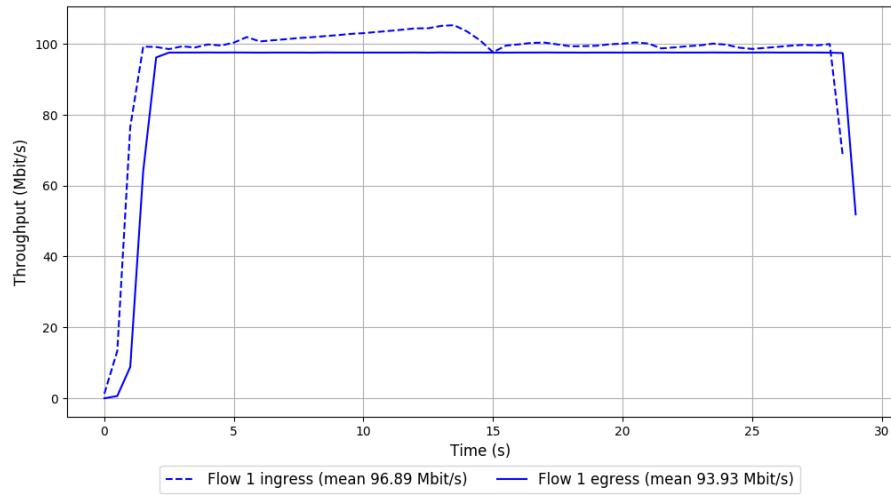


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 07:12:38
End at: 2019-03-27 07:13:08
Local clock offset: 1.883 ms
Remote clock offset: 0.475 ms

# Below is generated by plot.py at 2019-03-27 08:42:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 106.820 ms
Loss rate: 3.63%
-- Flow 1:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 106.820 ms
Loss rate: 3.63%
```

Run 2: Report of Indigo-MusesC5 — Data Link

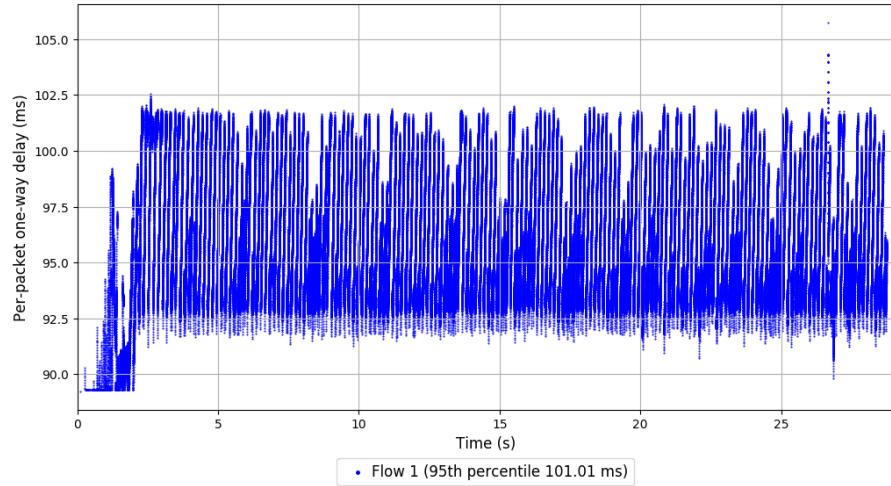
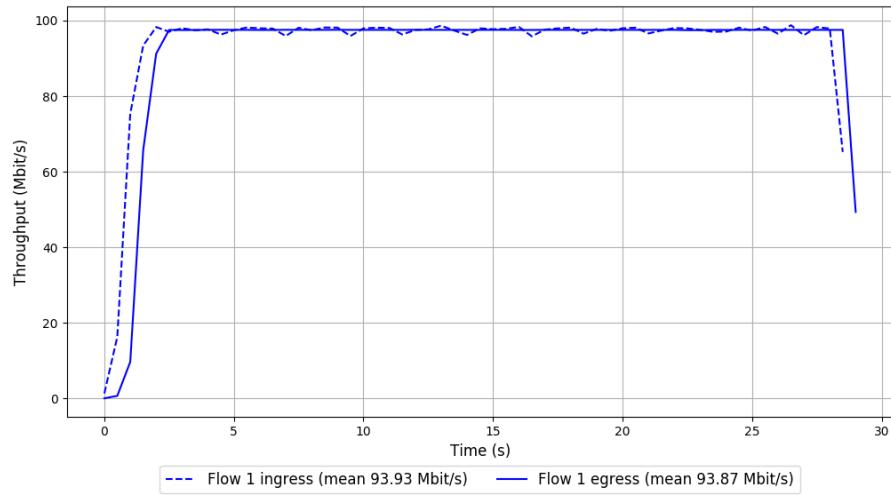


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 07:37:32
End at: 2019-03-27 07:38:02
Local clock offset: -3.893 ms
Remote clock offset: 4.152 ms

# Below is generated by plot.py at 2019-03-27 08:42:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 101.007 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 101.007 ms
Loss rate: 0.65%
```

Run 3: Report of Indigo-MusesC5 — Data Link

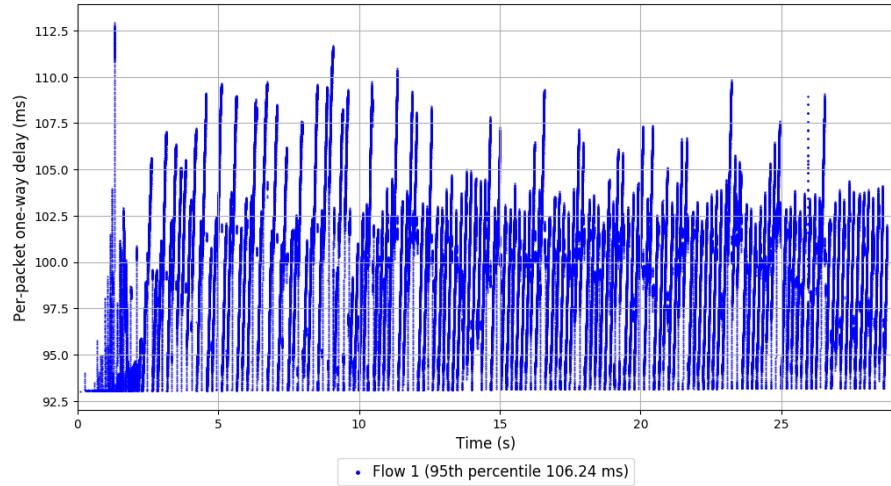
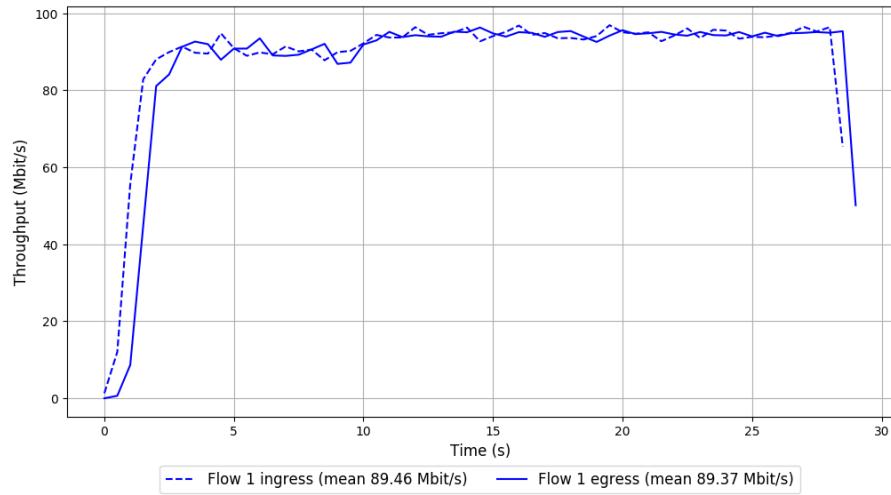


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 08:02:28
End at: 2019-03-27 08:02:58
Local clock offset: -4.454 ms
Remote clock offset: 8.501 ms

# Below is generated by plot.py at 2019-03-27 08:42:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.37 Mbit/s
95th percentile per-packet one-way delay: 106.240 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 89.37 Mbit/s
95th percentile per-packet one-way delay: 106.240 ms
Loss rate: 0.70%
```

Run 4: Report of Indigo-MusesC5 — Data Link

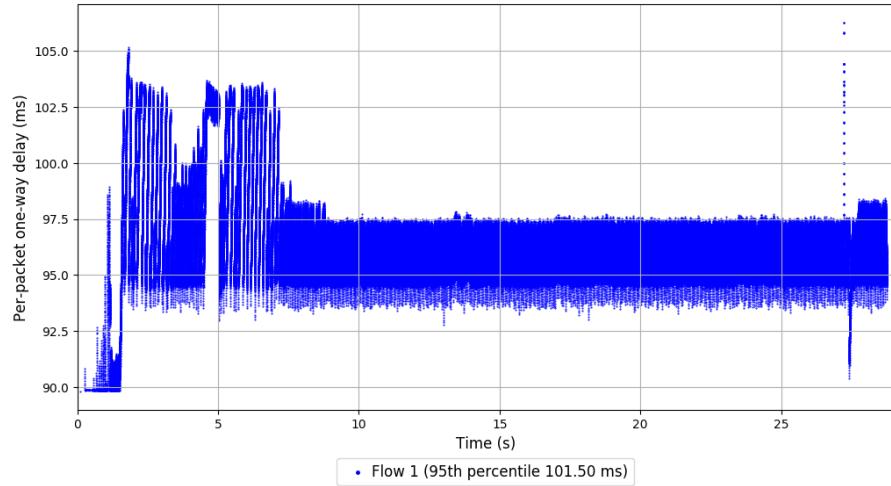
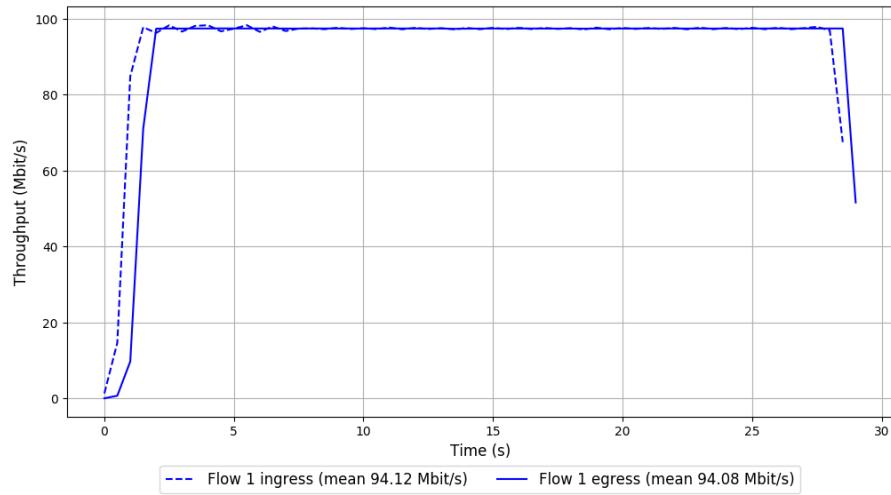


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 08:27:23
End at: 2019-03-27 08:27:53
Local clock offset: -4.442 ms
Remote clock offset: 17.807 ms

# Below is generated by plot.py at 2019-03-27 08:42:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 101.499 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 101.499 ms
Loss rate: 0.64%
```

Run 5: Report of Indigo-MusesC5 — Data Link

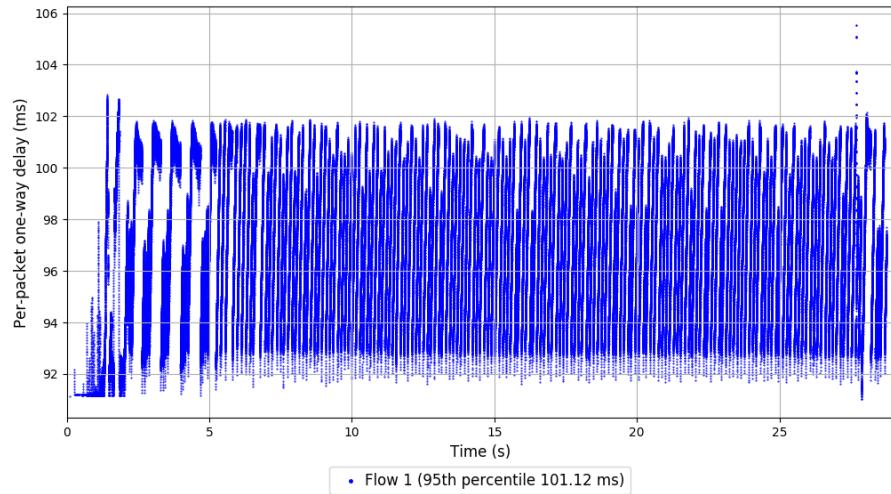
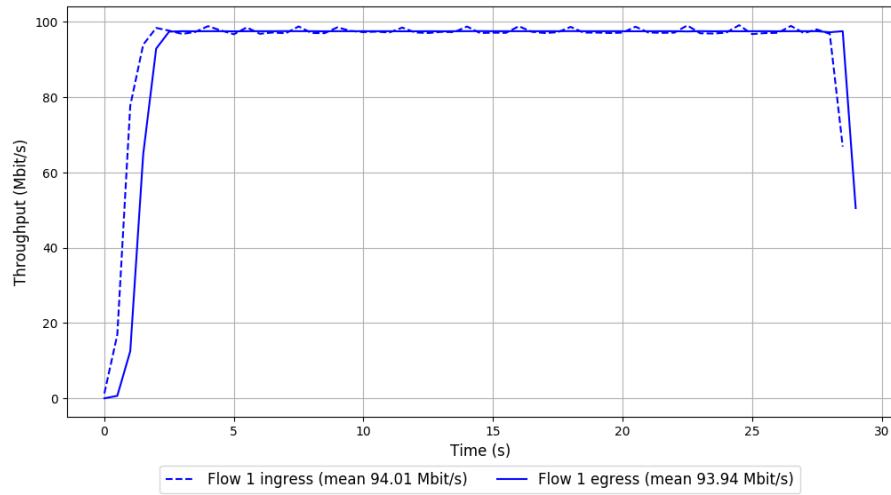


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 06:46:32
End at: 2019-03-27 06:47:02
Local clock offset: 3.266 ms
Remote clock offset: 5.419 ms

# Below is generated by plot.py at 2019-03-27 08:42:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 101.121 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 101.121 ms
Loss rate: 0.67%
```

Run 1: Report of Indigo-MusesD — Data Link

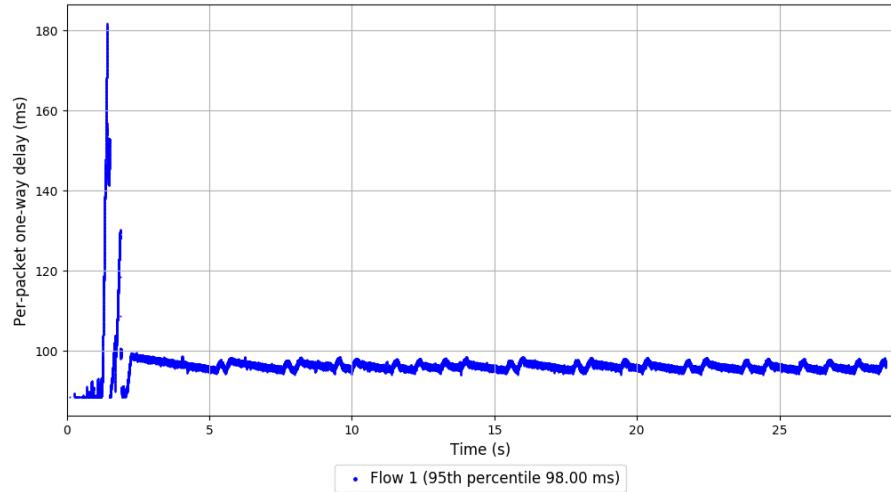
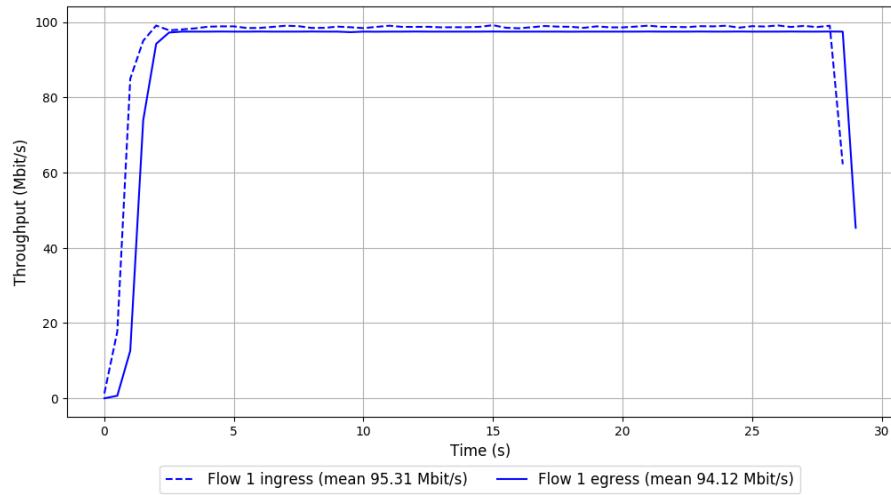


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 07:11:26
End at: 2019-03-27 07:11:56
Local clock offset: 2.651 ms
Remote clock offset: 4.127 ms

# Below is generated by plot.py at 2019-03-27 08:42:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.12 Mbit/s
95th percentile per-packet one-way delay: 98.001 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 94.12 Mbit/s
95th percentile per-packet one-way delay: 98.001 ms
Loss rate: 1.84%
```

Run 2: Report of Indigo-MusesD — Data Link

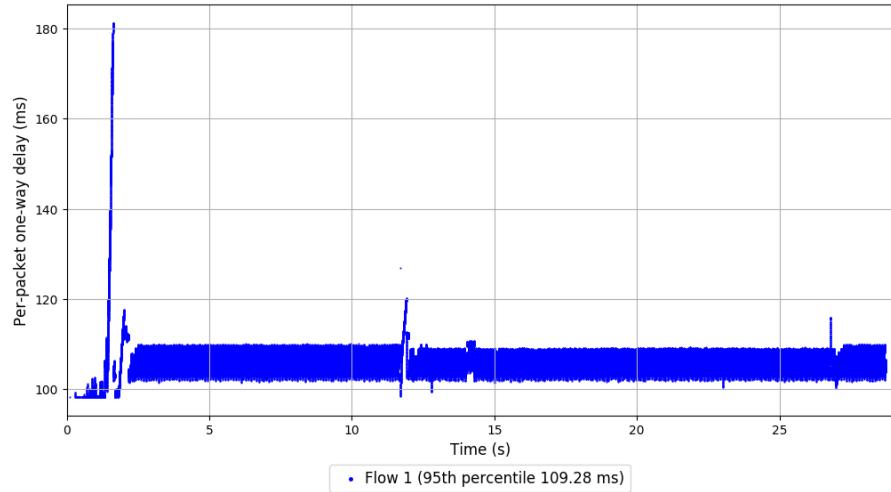
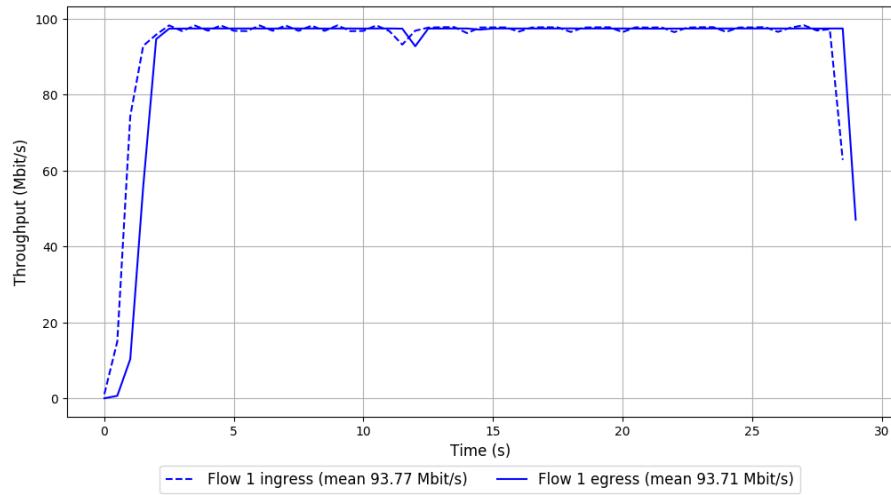


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 07:36:20
End at: 2019-03-27 07:36:50
Local clock offset: -4.472 ms
Remote clock offset: 0.437 ms

# Below is generated by plot.py at 2019-03-27 08:42:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 109.276 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 109.276 ms
Loss rate: 0.67%
```

Run 3: Report of Indigo-MusesD — Data Link

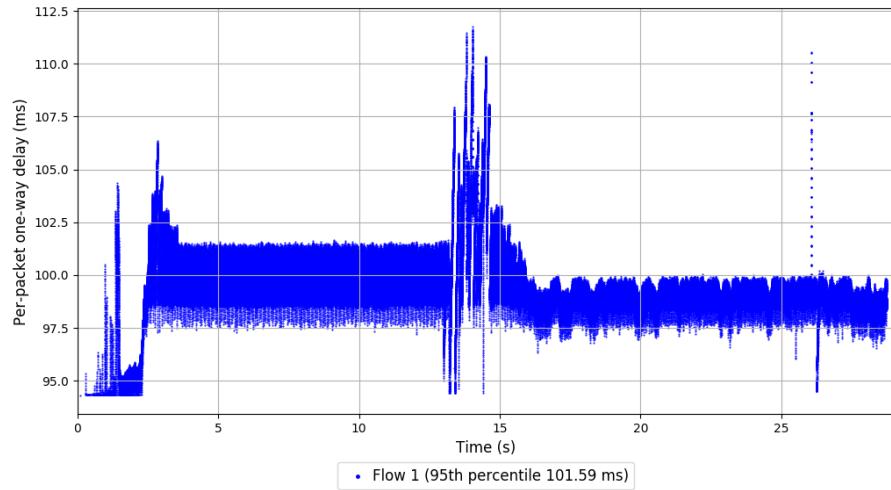
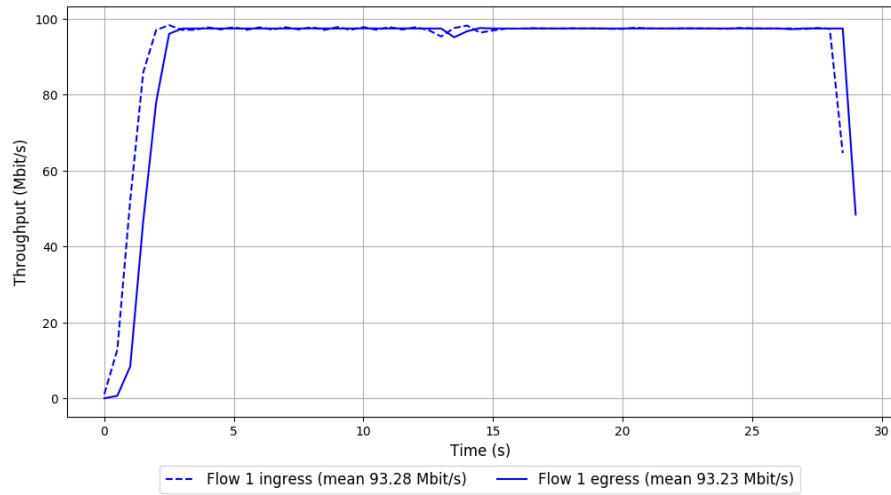


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 08:01:17
End at: 2019-03-27 08:01:47
Local clock offset: -4.526 ms
Remote clock offset: 13.071 ms

# Below is generated by plot.py at 2019-03-27 08:43:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.23 Mbit/s
95th percentile per-packet one-way delay: 101.595 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 93.23 Mbit/s
95th percentile per-packet one-way delay: 101.595 ms
Loss rate: 0.67%
```

Run 4: Report of Indigo-MusesD — Data Link

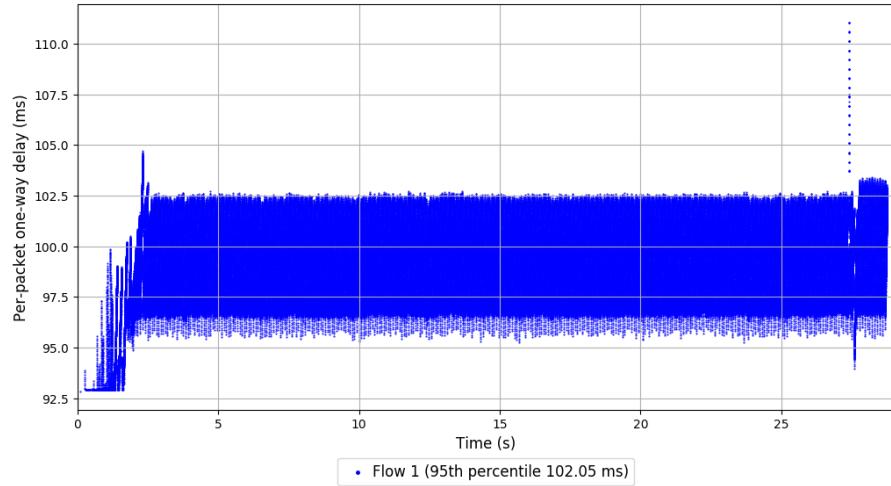
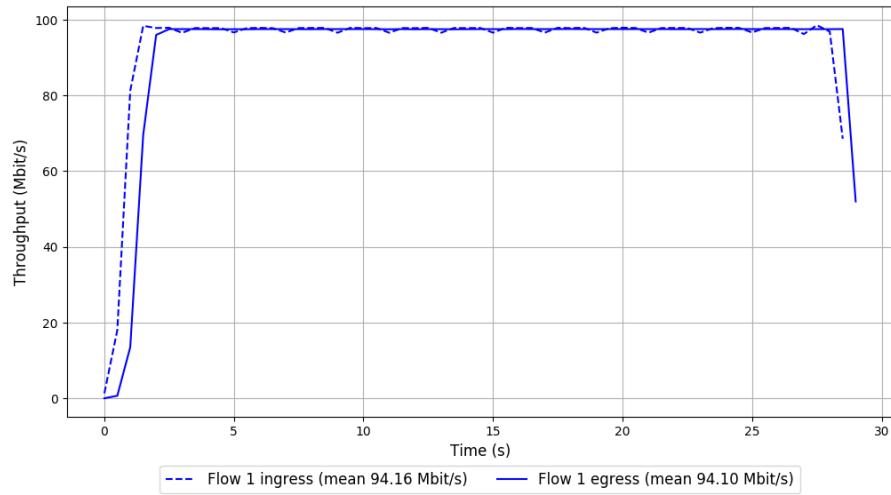


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 08:26:11
End at: 2019-03-27 08:26:41
Local clock offset: -5.109 ms
Remote clock offset: 13.68 ms

# Below is generated by plot.py at 2019-03-27 08:43:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 102.050 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 102.050 ms
Loss rate: 0.65%
```

Run 5: Report of Indigo-MusesD — Data Link

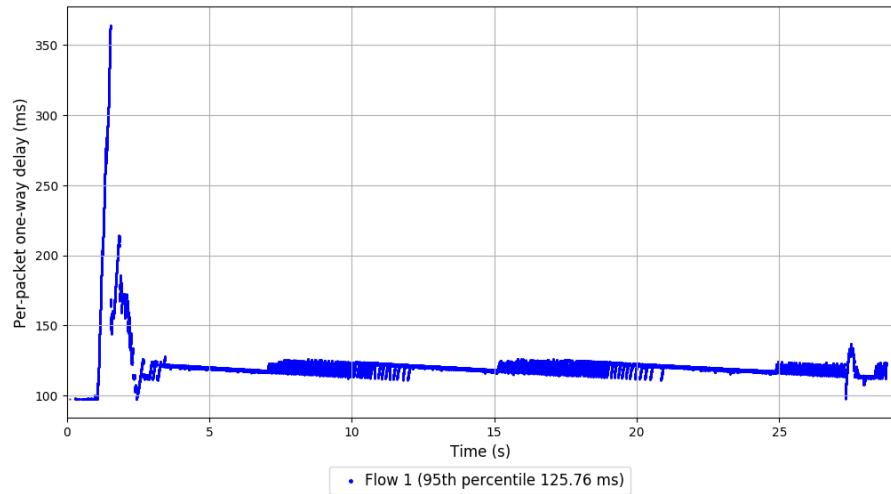
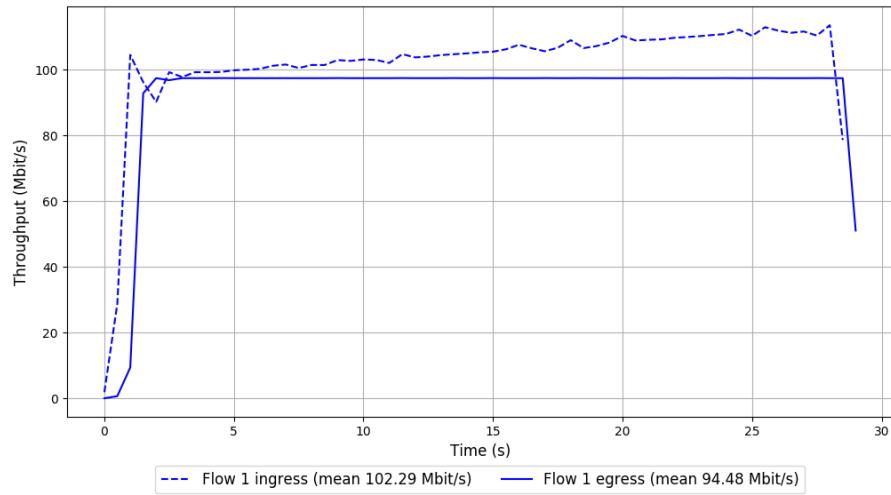


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 06:41:44
End at: 2019-03-27 06:42:14
Local clock offset: 3.29 ms
Remote clock offset: 8.722 ms

# Below is generated by plot.py at 2019-03-27 08:43:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.48 Mbit/s
95th percentile per-packet one-way delay: 125.762 ms
Loss rate: 8.21%
-- Flow 1:
Average throughput: 94.48 Mbit/s
95th percentile per-packet one-way delay: 125.762 ms
Loss rate: 8.21%
```

Run 1: Report of Indigo-MusesT — Data Link

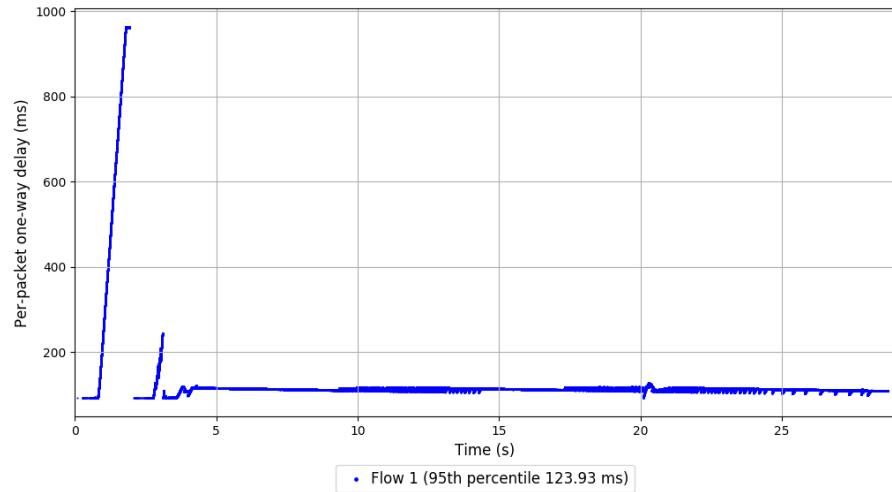
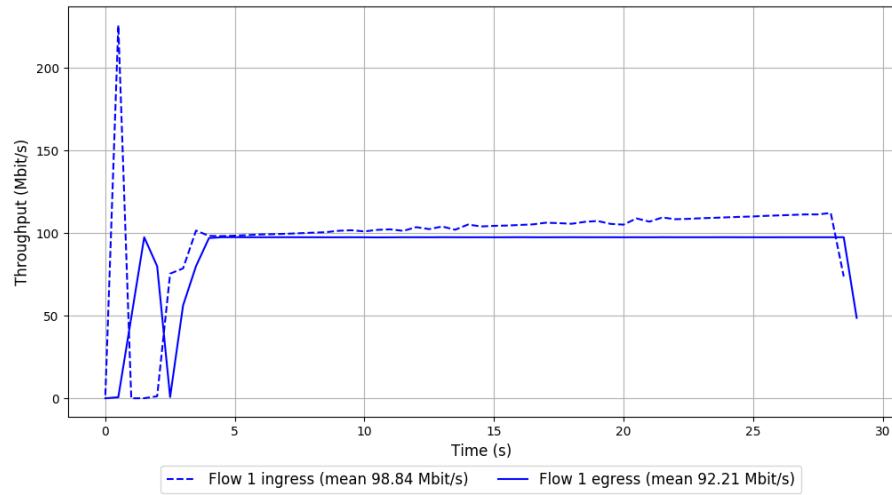


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 07:06:38
End at: 2019-03-27 07:07:08
Local clock offset: 2.714 ms
Remote clock offset: 0.885 ms

# Below is generated by plot.py at 2019-03-27 08:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 123.930 ms
Loss rate: 7.26%
-- Flow 1:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 123.930 ms
Loss rate: 7.26%
```

Run 2: Report of Indigo-MusesT — Data Link

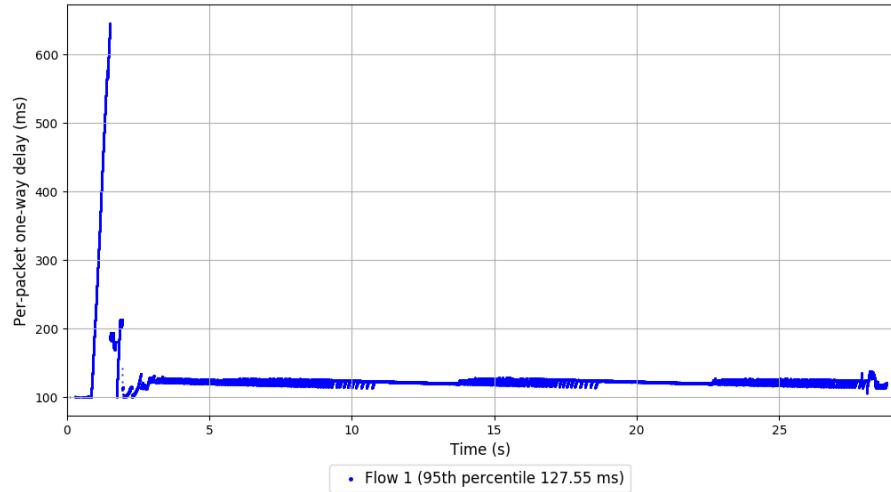
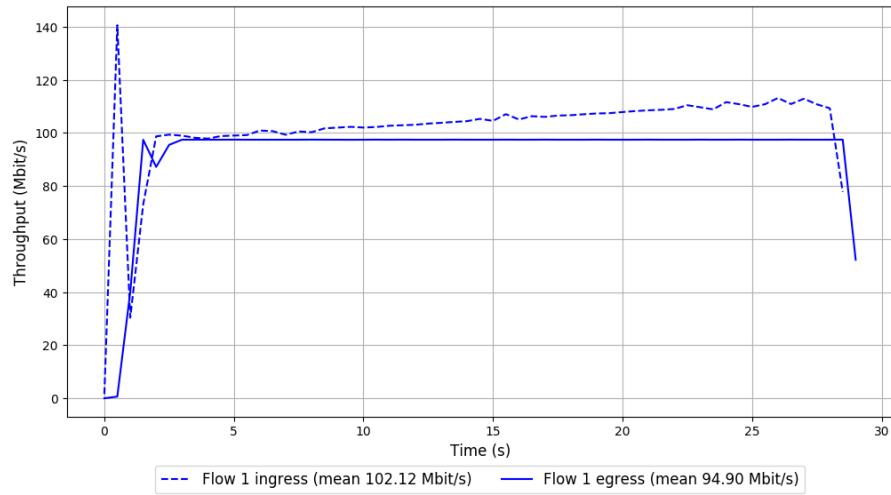


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 07:31:32
End at: 2019-03-27 07:32:02
Local clock offset: -2.985 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-03-27 08:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 127.554 ms
Loss rate: 7.64%
-- Flow 1:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 127.554 ms
Loss rate: 7.64%
```

Run 3: Report of Indigo-MusesT — Data Link

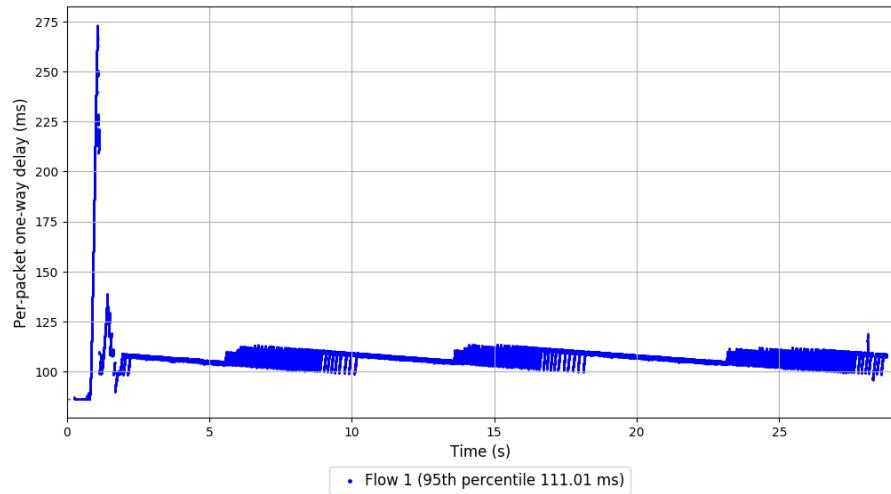
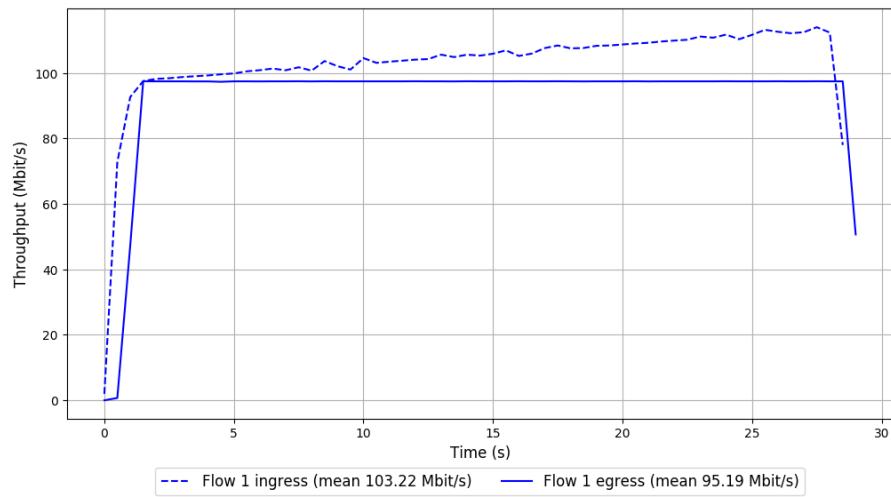


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 07:56:28
End at: 2019-03-27 07:56:58
Local clock offset: -4.505 ms
Remote clock offset: 12.806 ms

# Below is generated by plot.py at 2019-03-27 08:43:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: 111.006 ms
Loss rate: 8.33%
-- Flow 1:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: 111.006 ms
Loss rate: 8.33%
```

Run 4: Report of Indigo-MusesT — Data Link

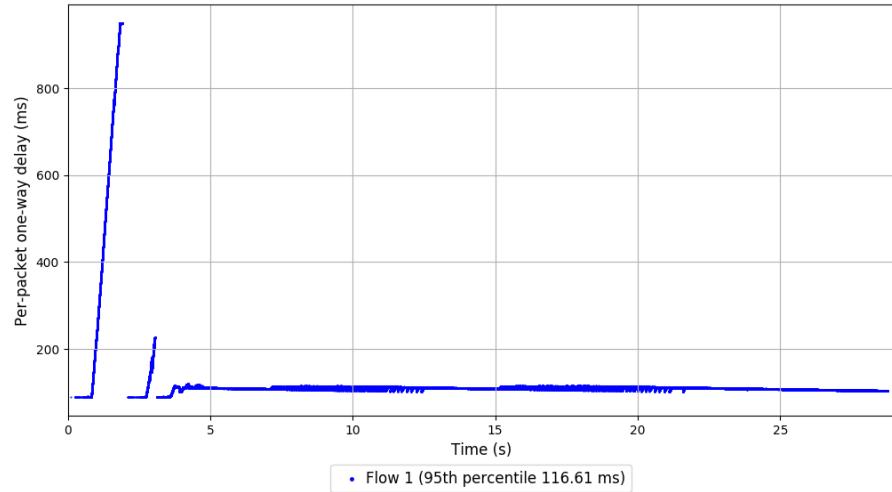
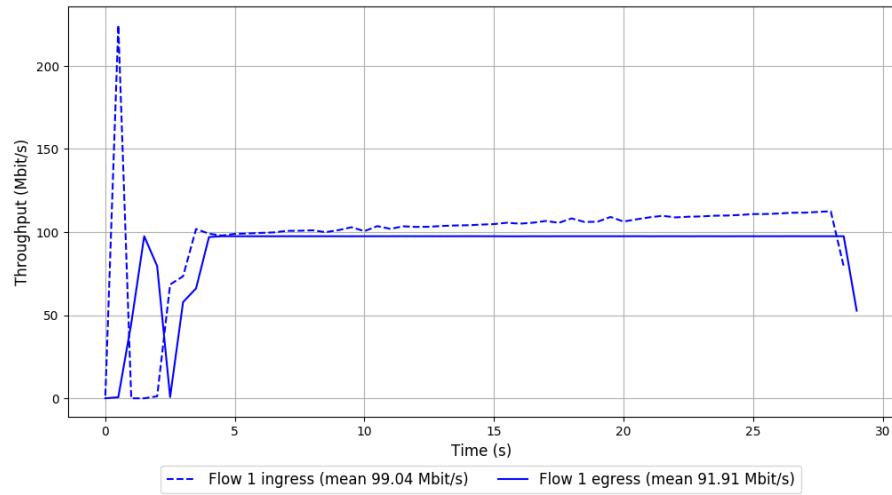


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 08:21:22
End at: 2019-03-27 08:21:52
Local clock offset: -4.203 ms
Remote clock offset: 16.478 ms

# Below is generated by plot.py at 2019-03-27 08:43:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.91 Mbit/s
95th percentile per-packet one-way delay: 116.608 ms
Loss rate: 7.74%
-- Flow 1:
Average throughput: 91.91 Mbit/s
95th percentile per-packet one-way delay: 116.608 ms
Loss rate: 7.74%
```

Run 5: Report of Indigo-MusesT — Data Link

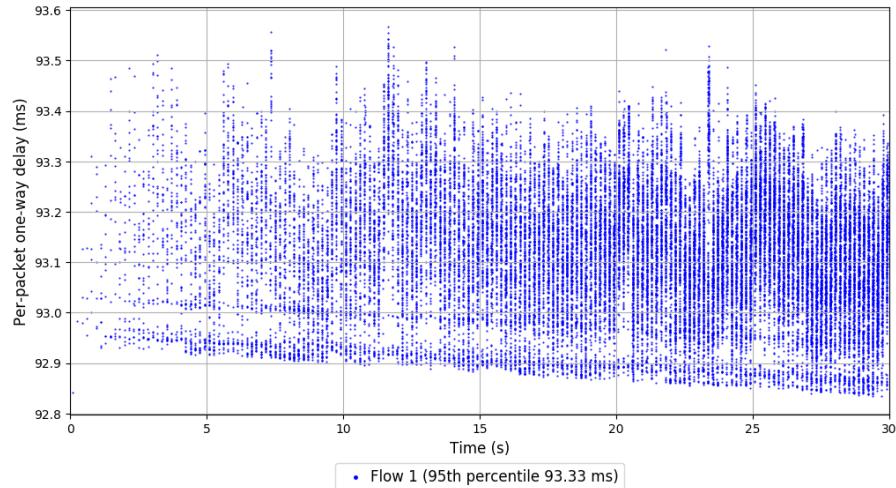
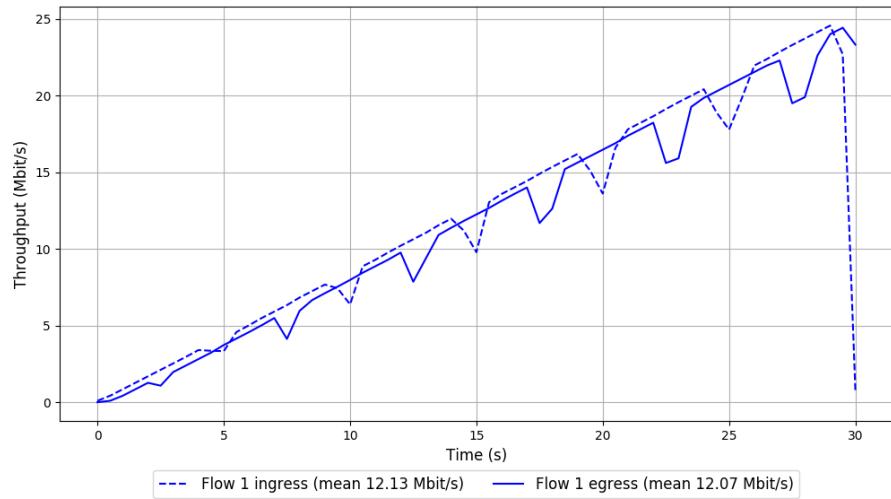


Run 1: Statistics of LEDBAT

```
Start at: 2019-03-27 06:51:11
End at: 2019-03-27 06:51:41
Local clock offset: 2.658 ms
Remote clock offset: 2.103 ms

# Below is generated by plot.py at 2019-03-27 08:43:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 93.332 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 93.332 ms
Loss rate: 1.14%
```

Run 1: Report of LEDBAT — Data Link

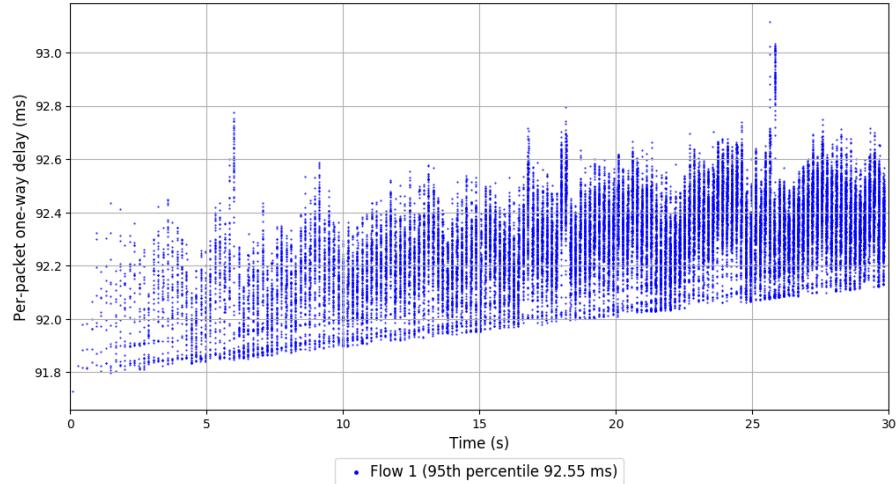
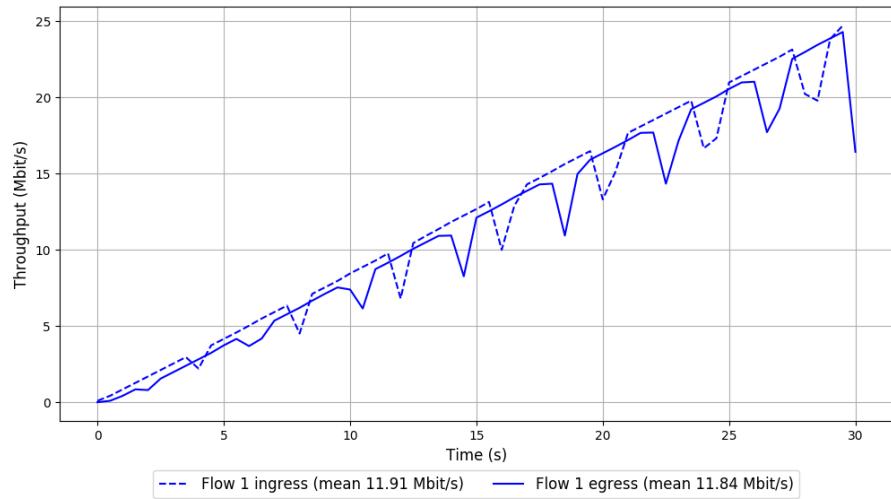


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-27 07:16:05
End at: 2019-03-27 07:16:35
Local clock offset: 1.793 ms
Remote clock offset: 0.911 ms

# Below is generated by plot.py at 2019-03-27 08:43:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 92.546 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 92.546 ms
Loss rate: 1.16%
```

Run 2: Report of LEDBAT — Data Link

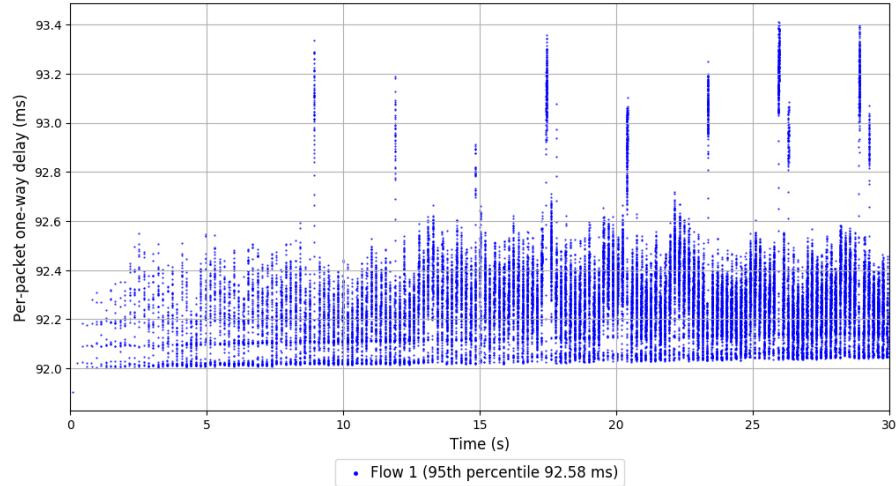
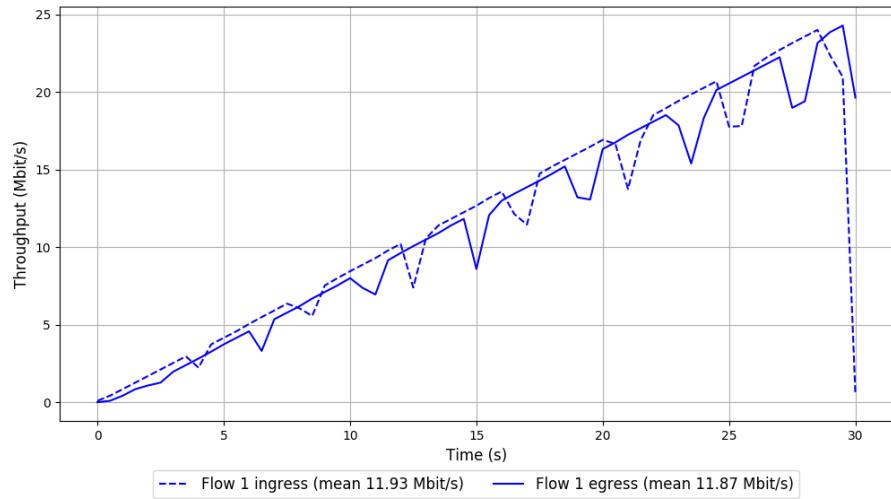


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-27 07:41:00
End at: 2019-03-27 07:41:30
Local clock offset: -5.03 ms
Remote clock offset: 0.392 ms

# Below is generated by plot.py at 2019-03-27 08:43:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.87 Mbit/s
95th percentile per-packet one-way delay: 92.575 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 11.87 Mbit/s
95th percentile per-packet one-way delay: 92.575 ms
Loss rate: 1.11%
```

Run 3: Report of LEDBAT — Data Link

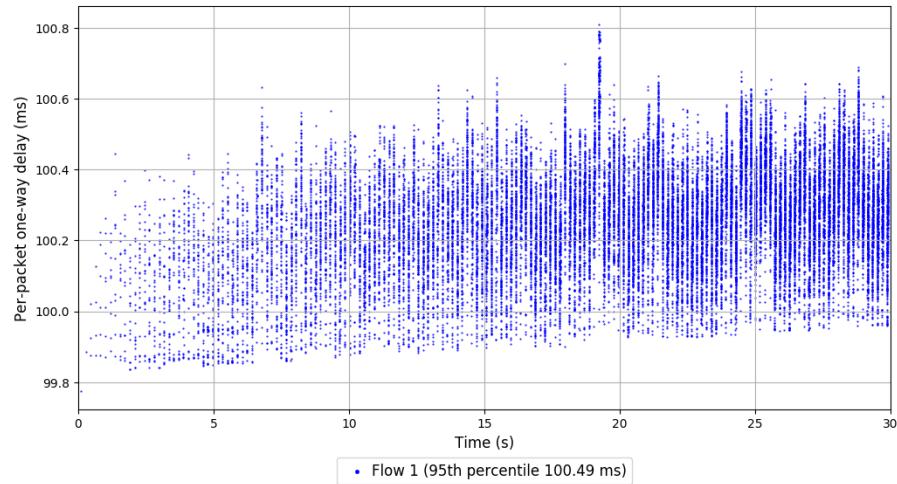
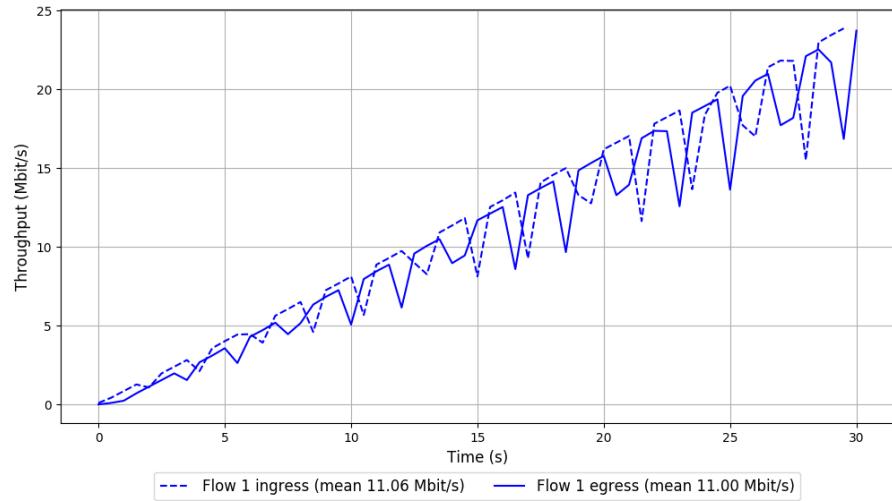


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-27 08:05:56
End at: 2019-03-27 08:06:26
Local clock offset: -3.74 ms
Remote clock offset: 9.649 ms

# Below is generated by plot.py at 2019-03-27 08:43:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.00 Mbit/s
95th percentile per-packet one-way delay: 100.492 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 11.00 Mbit/s
95th percentile per-packet one-way delay: 100.492 ms
Loss rate: 1.21%
```

Run 4: Report of LEDBAT — Data Link

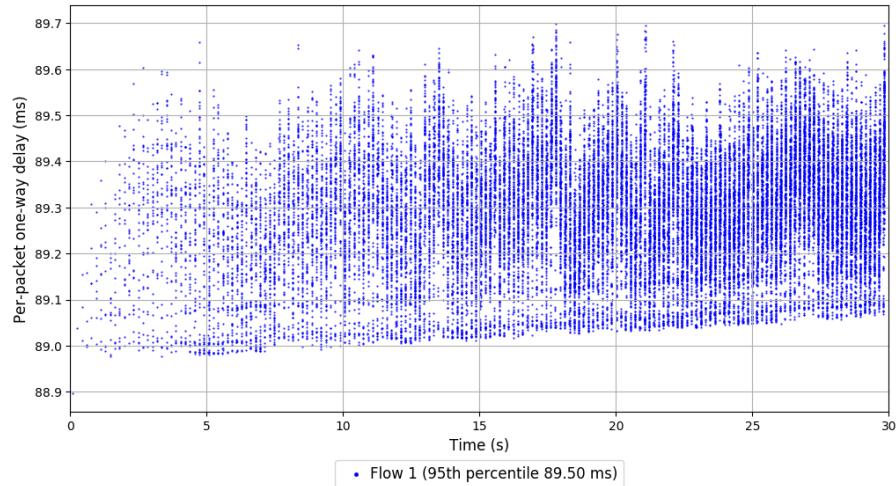
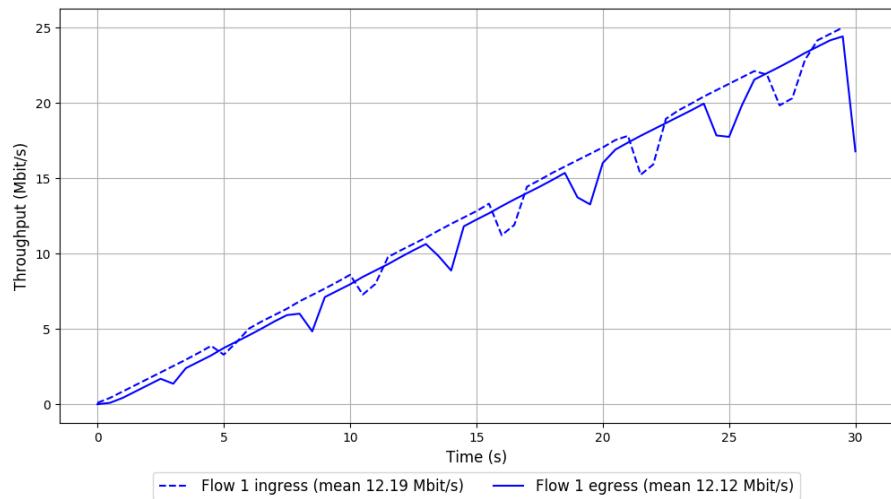


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-27 08:30:51
End at: 2019-03-27 08:31:21
Local clock offset: -5.351 ms
Remote clock offset: 18.355 ms

# Below is generated by plot.py at 2019-03-27 08:43:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.12 Mbit/s
95th percentile per-packet one-way delay: 89.504 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.12 Mbit/s
95th percentile per-packet one-way delay: 89.504 ms
Loss rate: 1.15%
```

Run 5: Report of LEDBAT — Data Link

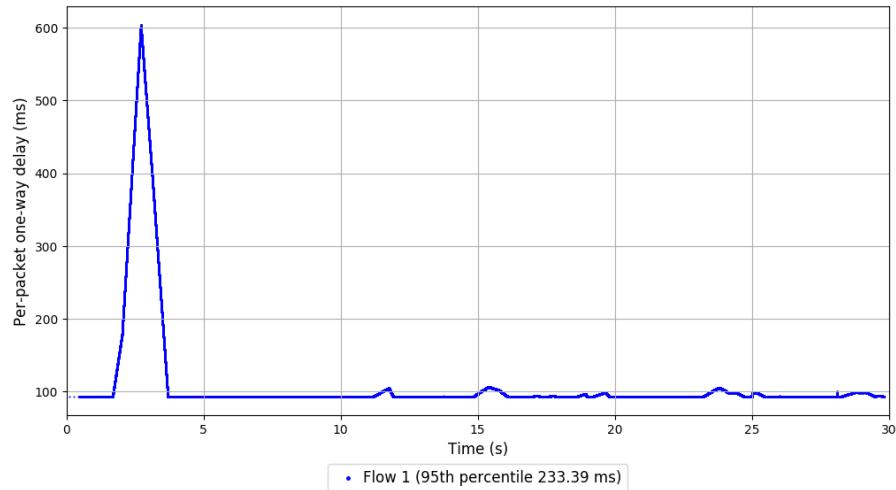
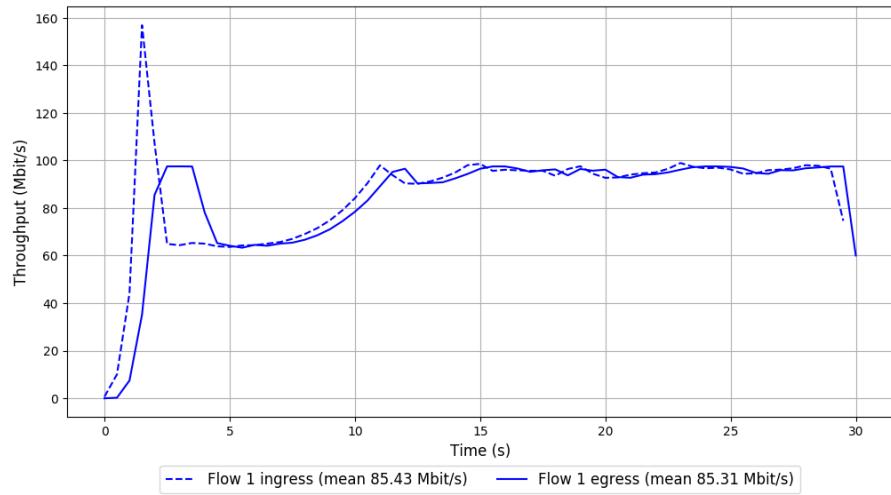


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-03-27 06:31:00
End at: 2019-03-27 06:31:30
Local clock offset: 3.416 ms
Remote clock offset: 10.515 ms

# Below is generated by plot.py at 2019-03-27 08:44:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.31 Mbit/s
95th percentile per-packet one-way delay: 233.386 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 85.31 Mbit/s
95th percentile per-packet one-way delay: 233.386 ms
Loss rate: 0.71%
```

Run 1: Report of PCC-Allegro — Data Link

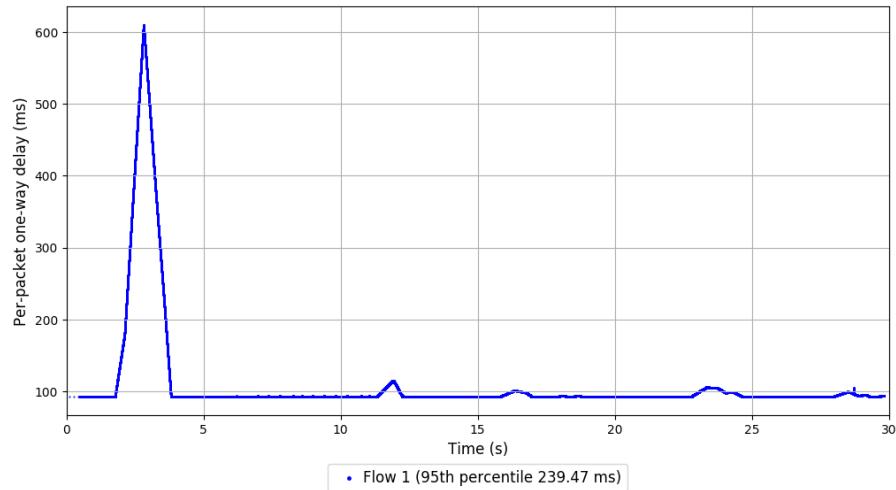
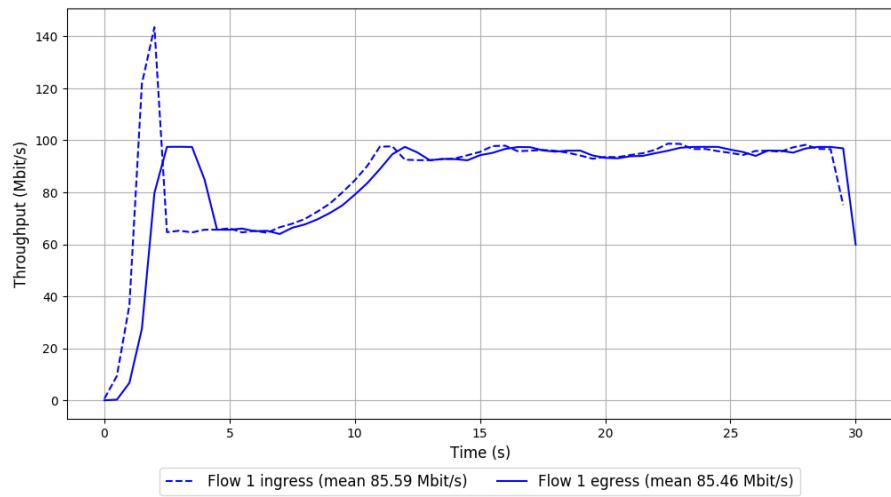


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-27 06:55:56
End at: 2019-03-27 06:56:26
Local clock offset: 2.226 ms
Remote clock offset: 1.197 ms

# Below is generated by plot.py at 2019-03-27 08:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.46 Mbit/s
95th percentile per-packet one-way delay: 239.469 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 85.46 Mbit/s
95th percentile per-packet one-way delay: 239.469 ms
Loss rate: 0.73%
```

Run 2: Report of PCC-Allegro — Data Link

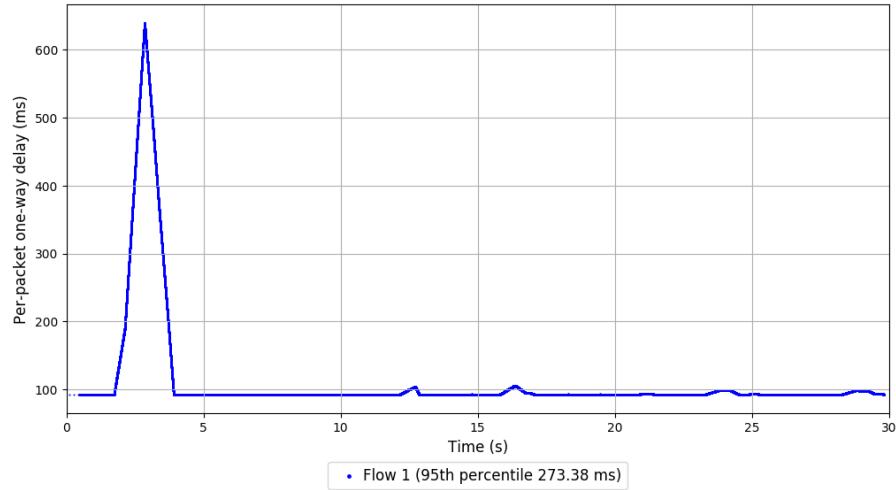
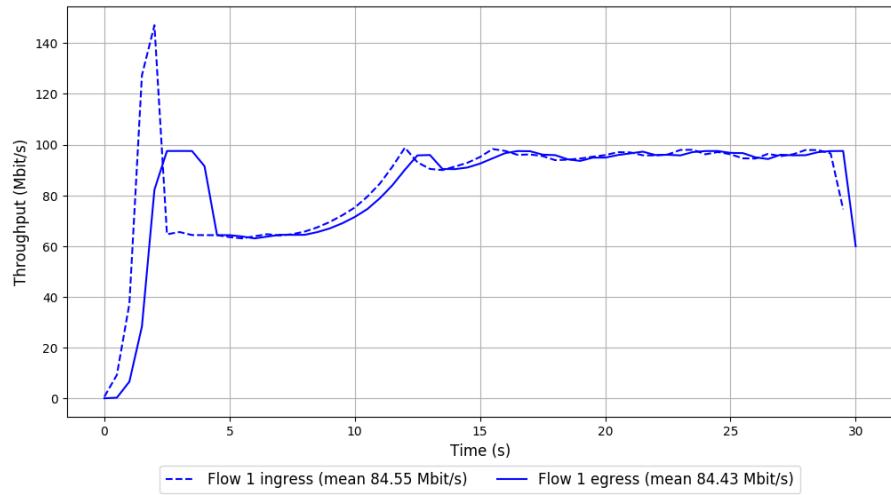


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-27 07:20:50
End at: 2019-03-27 07:21:20
Local clock offset: 0.016 ms
Remote clock offset: 0.849 ms

# Below is generated by plot.py at 2019-03-27 08:44:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.43 Mbit/s
95th percentile per-packet one-way delay: 273.381 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 84.43 Mbit/s
95th percentile per-packet one-way delay: 273.381 ms
Loss rate: 0.72%
```

Run 3: Report of PCC-Allegro — Data Link

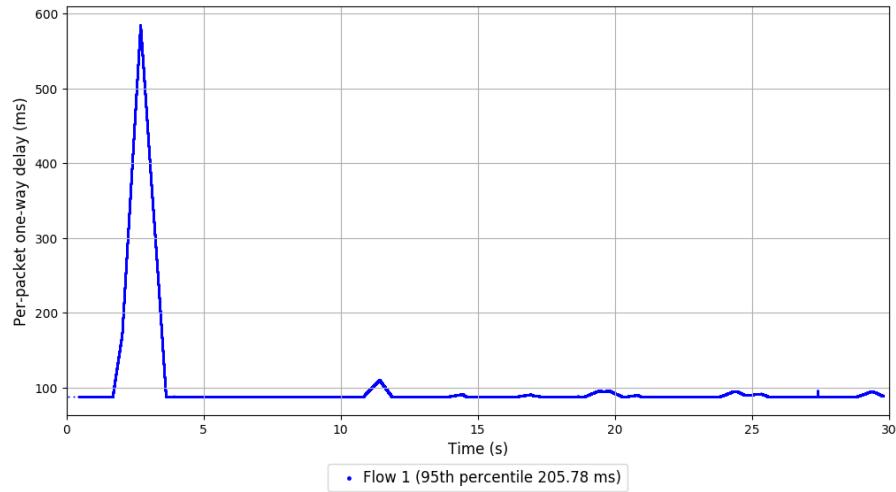
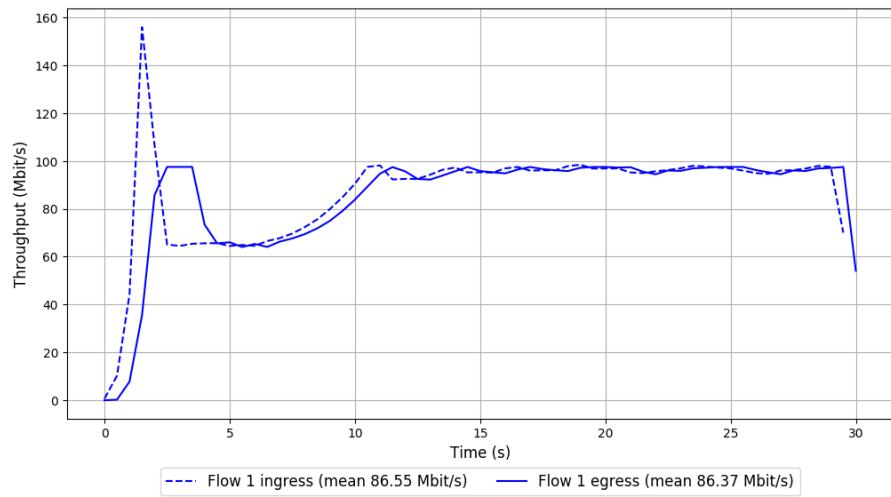


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-27 07:45:45
End at: 2019-03-27 07:46:15
Local clock offset: -4.798 ms
Remote clock offset: 5.409 ms

# Below is generated by plot.py at 2019-03-27 08:44:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.37 Mbit/s
95th percentile per-packet one-way delay: 205.781 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 86.37 Mbit/s
95th percentile per-packet one-way delay: 205.781 ms
Loss rate: 0.78%
```

Run 4: Report of PCC-Allegro — Data Link

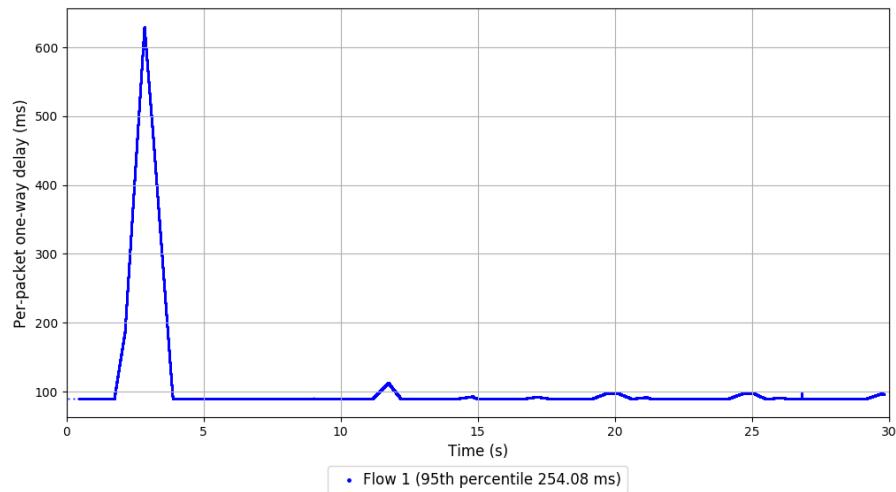
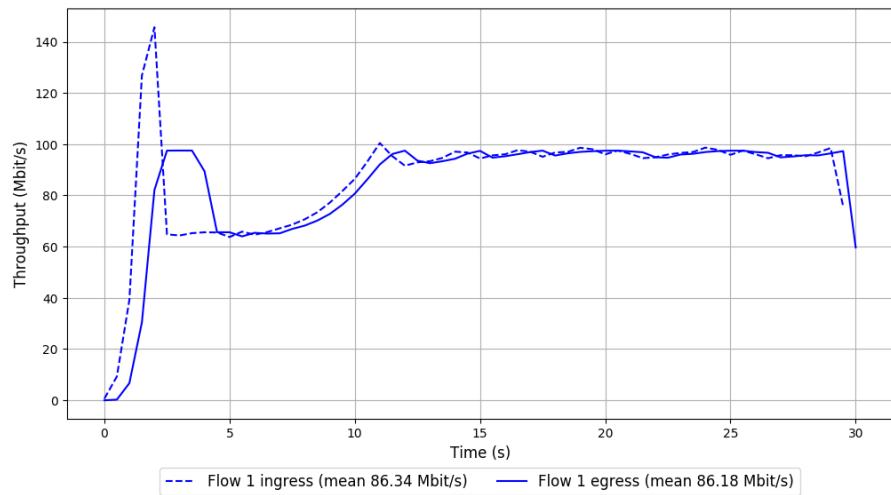


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-27 08:10:40
End at: 2019-03-27 08:11:10
Local clock offset: -4.622 ms
Remote clock offset: 13.264 ms

# Below is generated by plot.py at 2019-03-27 08:44:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.18 Mbit/s
95th percentile per-packet one-way delay: 254.077 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 86.18 Mbit/s
95th percentile per-packet one-way delay: 254.077 ms
Loss rate: 0.75%
```

Run 5: Report of PCC-Allegro — Data Link

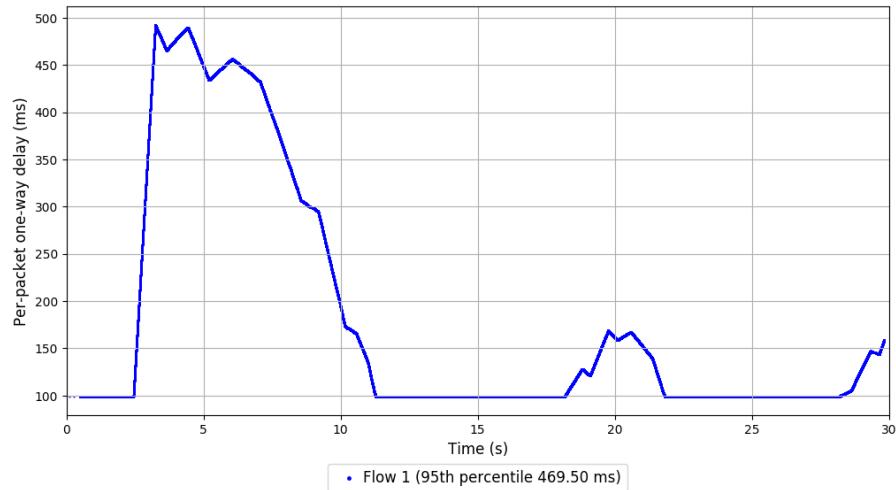
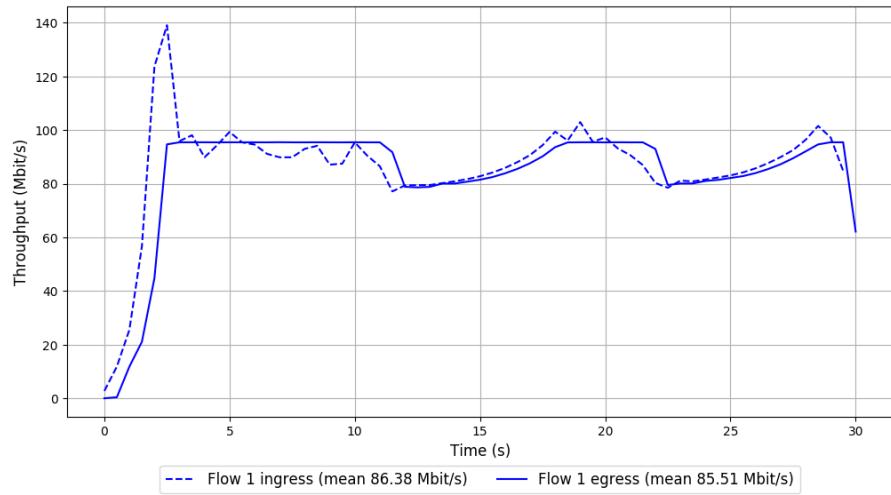


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-03-27 06:44:07
End at: 2019-03-27 06:44:37
Local clock offset: 3.335 ms
Remote clock offset: 5.579 ms

# Below is generated by plot.py at 2019-03-27 08:45:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.51 Mbit/s
95th percentile per-packet one-way delay: 469.496 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 85.51 Mbit/s
95th percentile per-packet one-way delay: 469.496 ms
Loss rate: 1.61%
```

Run 1: Report of PCC-Expr — Data Link

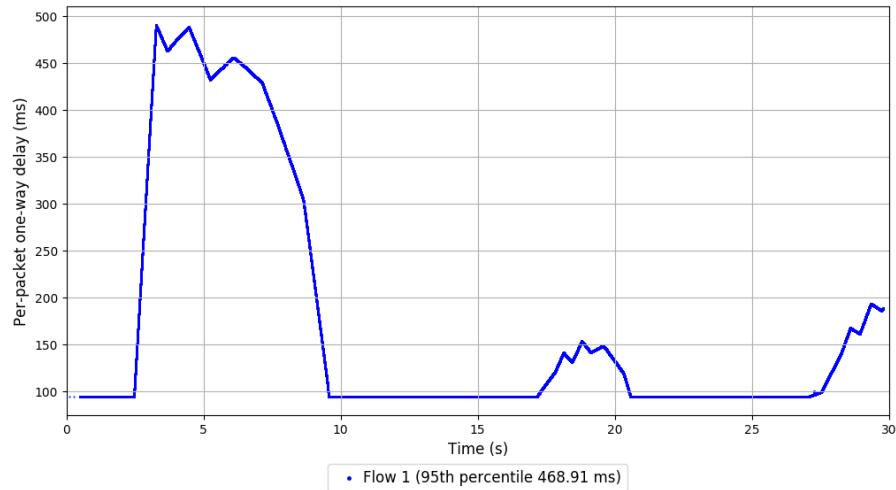
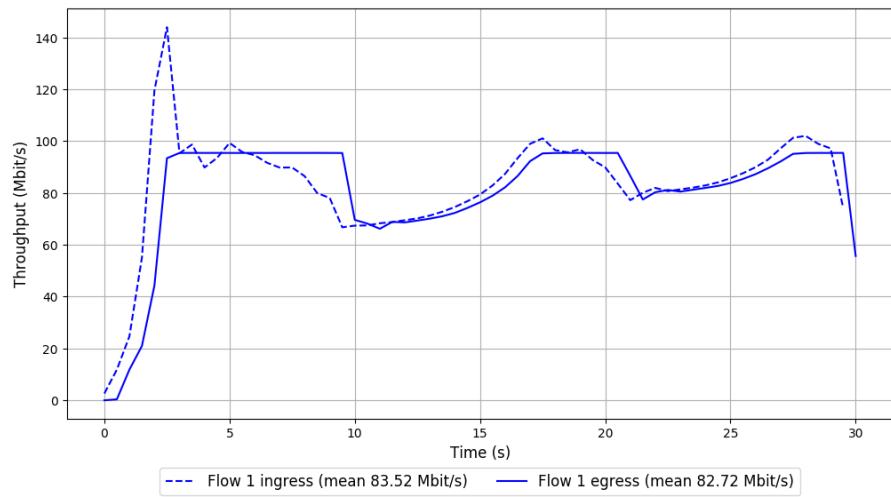


Run 2: Statistics of PCC-Expr

```
Start at: 2019-03-27 07:09:01
End at: 2019-03-27 07:09:31
Local clock offset: 2.608 ms
Remote clock offset: 4.681 ms

# Below is generated by plot.py at 2019-03-27 08:45:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.72 Mbit/s
95th percentile per-packet one-way delay: 468.911 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 82.72 Mbit/s
95th percentile per-packet one-way delay: 468.911 ms
Loss rate: 1.56%
```

Run 2: Report of PCC-Expr — Data Link

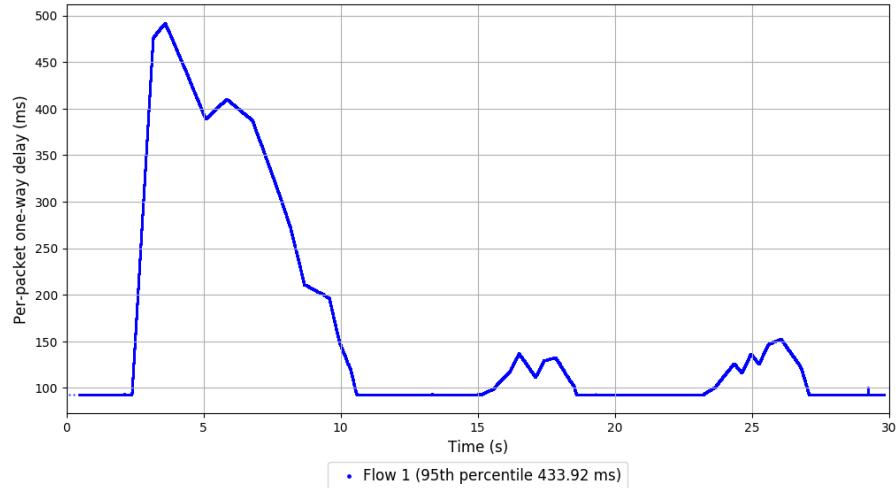
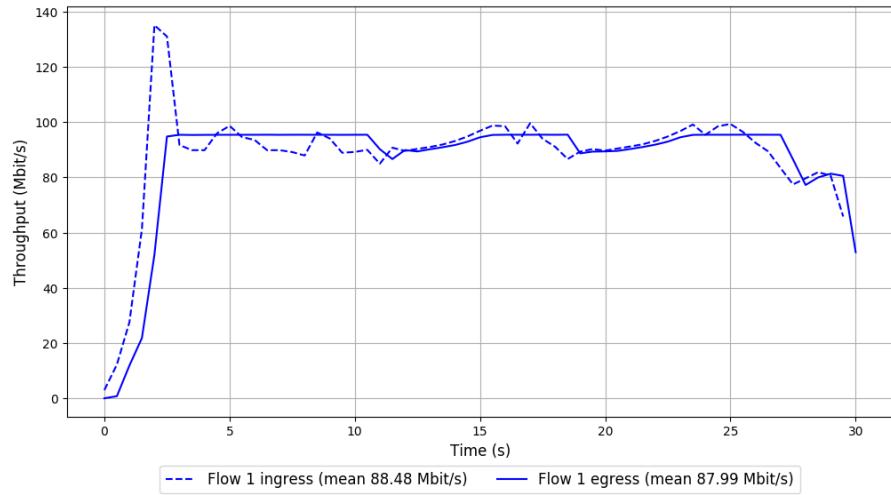


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-27 07:33:55
End at: 2019-03-27 07:34:25
Local clock offset: -4.117 ms
Remote clock offset: -0.229 ms

# Below is generated by plot.py at 2019-03-27 08:45:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.99 Mbit/s
95th percentile per-packet one-way delay: 433.920 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 87.99 Mbit/s
95th percentile per-packet one-way delay: 433.920 ms
Loss rate: 1.12%
```

Run 3: Report of PCC-Expr — Data Link

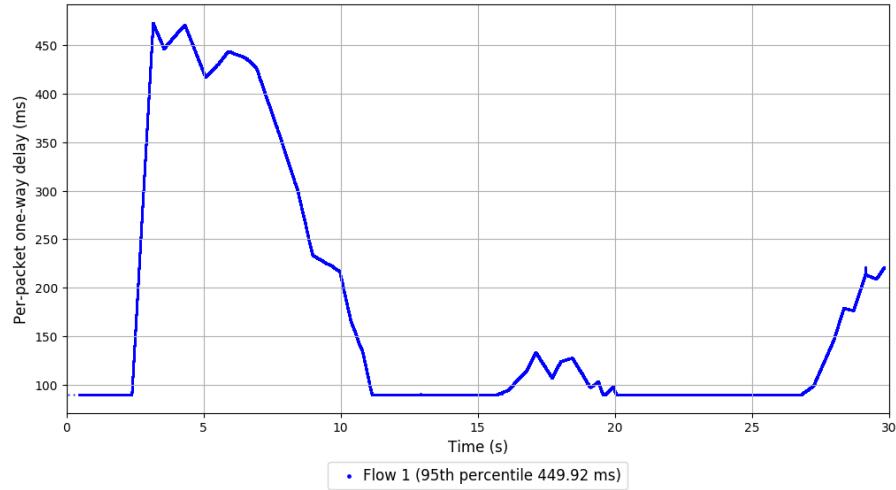
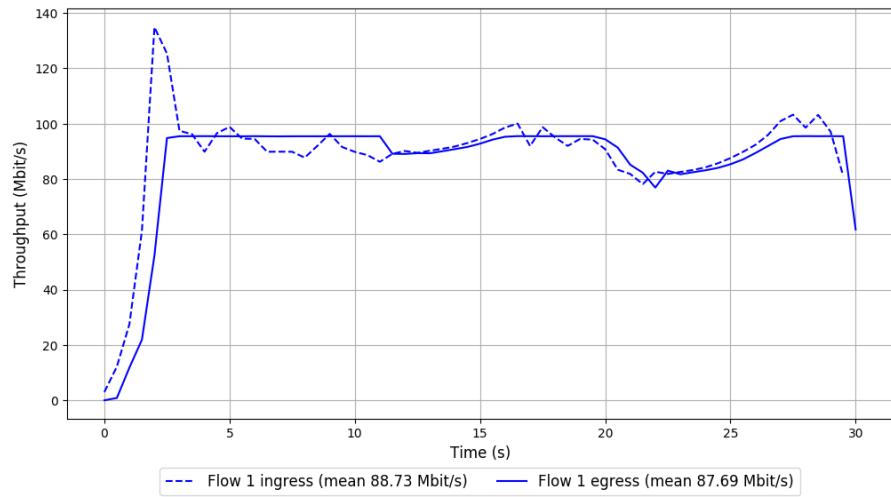


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-27 07:58:51
End at: 2019-03-27 07:59:21
Local clock offset: -3.688 ms
Remote clock offset: 10.992 ms

# Below is generated by plot.py at 2019-03-27 08:46:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 449.915 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 449.915 ms
Loss rate: 1.74%
```

Run 4: Report of PCC-Expr — Data Link

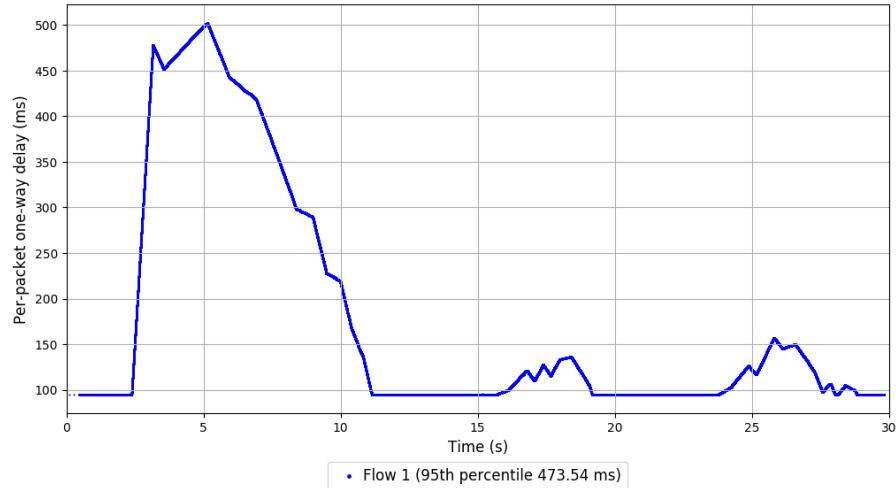
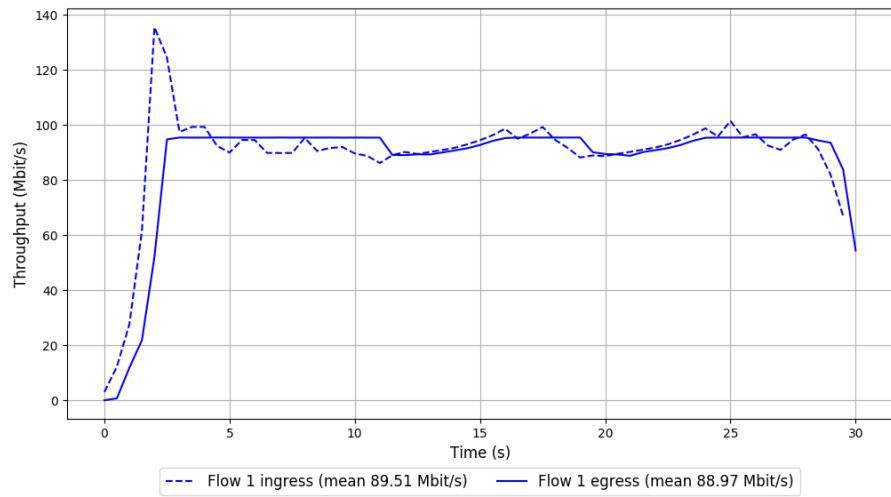


Run 5: Statistics of PCC-Expr

```
Start at: 2019-03-27 08:23:46
End at: 2019-03-27 08:24:16
Local clock offset: -4.334 ms
Remote clock offset: 12.193 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.97 Mbit/s
95th percentile per-packet one-way delay: 473.541 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 88.97 Mbit/s
95th percentile per-packet one-way delay: 473.541 ms
Loss rate: 1.17%
```

Run 5: Report of PCC-Expr — Data Link

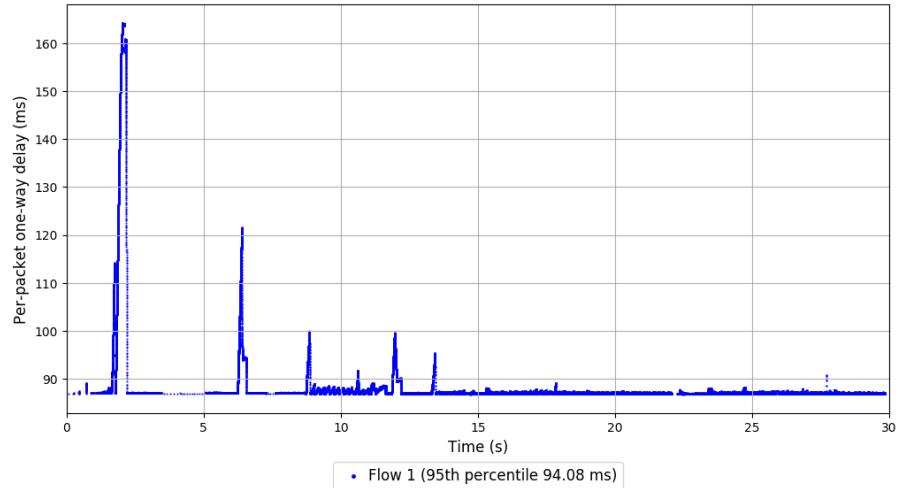
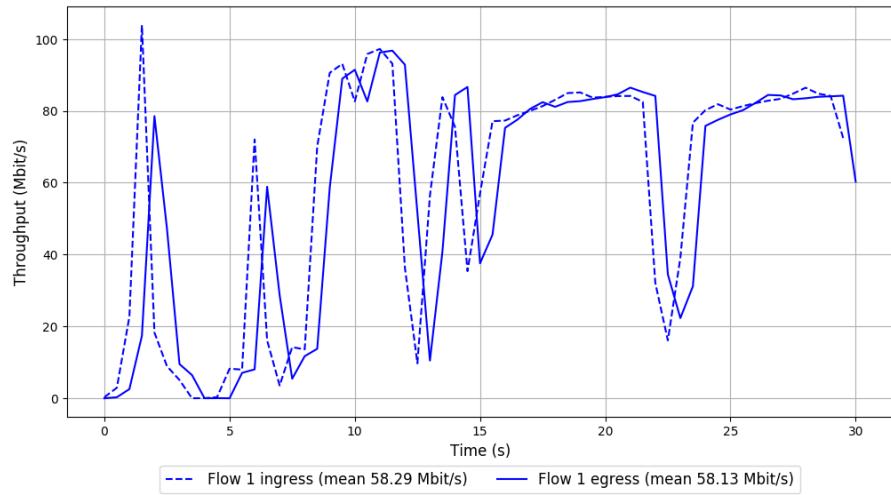


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-03-27 06:45:21
End at: 2019-03-27 06:45:51
Local clock offset: 4.101 ms
Remote clock offset: 10.876 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.13 Mbit/s
95th percentile per-packet one-way delay: 94.079 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 58.13 Mbit/s
95th percentile per-packet one-way delay: 94.079 ms
Loss rate: 0.84%
```

Run 1: Report of QUIC Cubic — Data Link

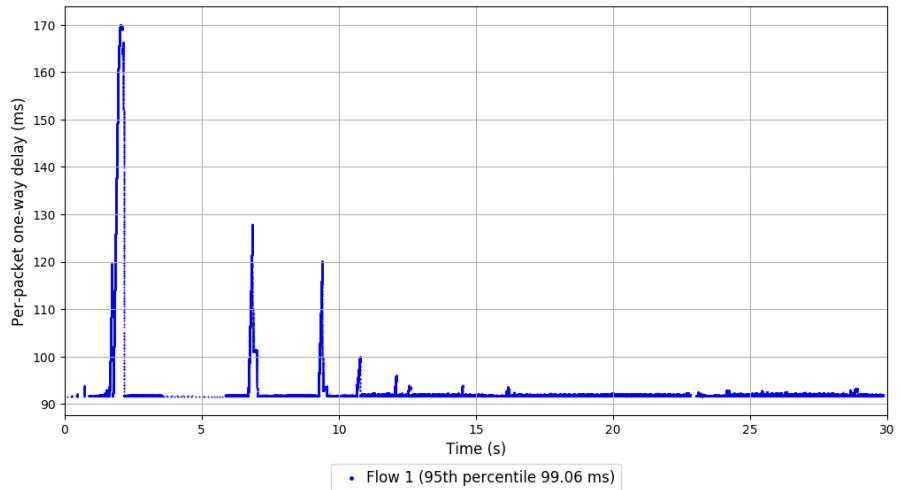
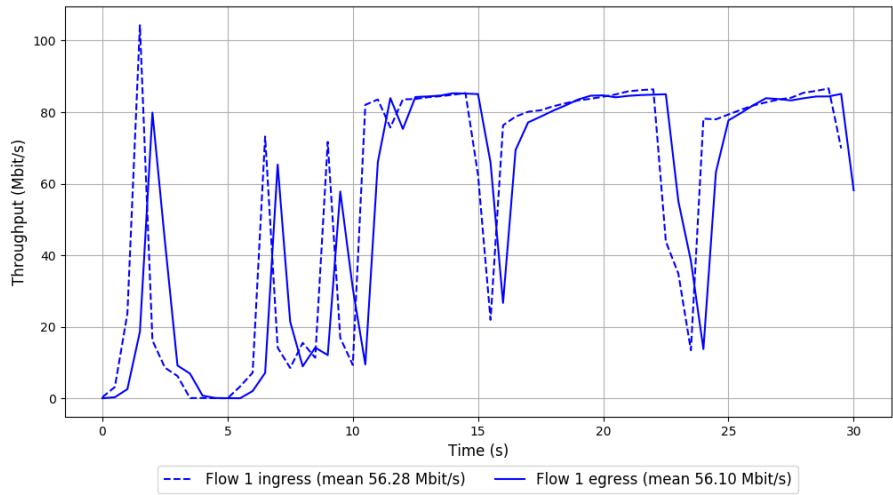


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-27 07:10:15
End at: 2019-03-27 07:10:45
Local clock offset: 1.912 ms
Remote clock offset: 0.389 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.10 Mbit/s
95th percentile per-packet one-way delay: 99.057 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 56.10 Mbit/s
95th percentile per-packet one-way delay: 99.057 ms
Loss rate: 0.89%
```

Run 2: Report of QUIC Cubic — Data Link

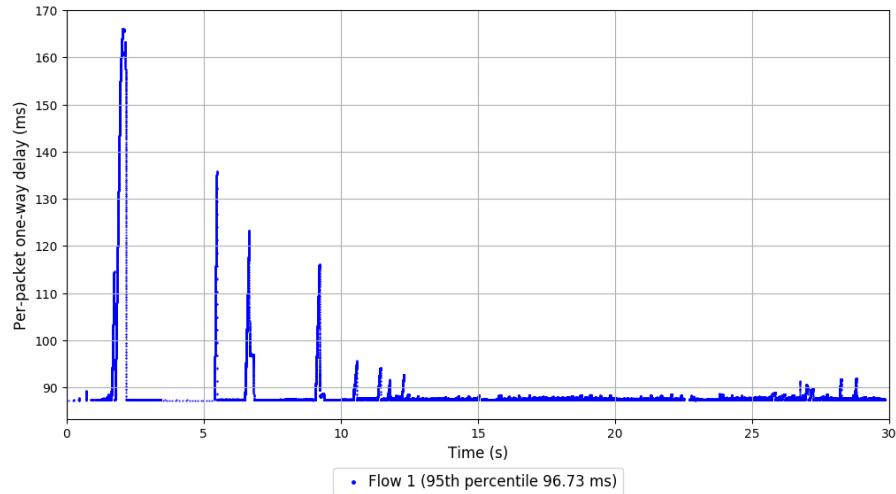
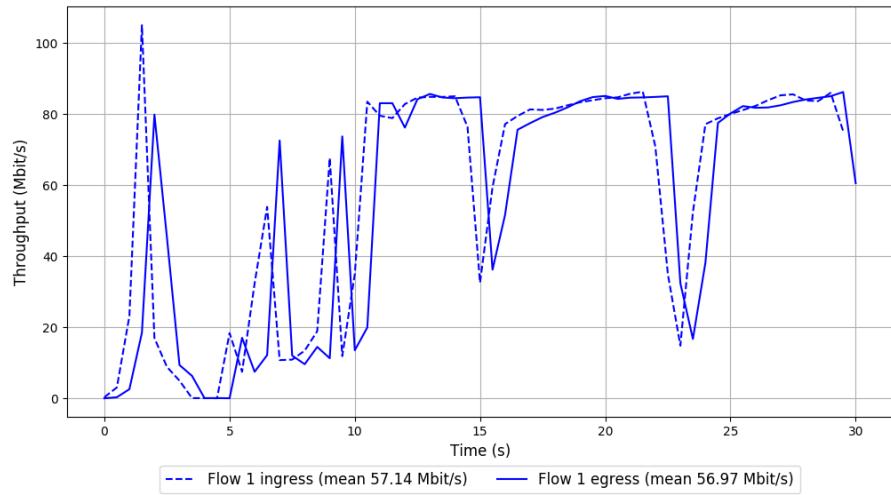


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-27 07:35:10
End at: 2019-03-27 07:35:40
Local clock offset: -4.297 ms
Remote clock offset: 5.408 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.97 Mbit/s
95th percentile per-packet one-way delay: 96.730 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 56.97 Mbit/s
95th percentile per-packet one-way delay: 96.730 ms
Loss rate: 0.87%
```

Run 3: Report of QUIC Cubic — Data Link

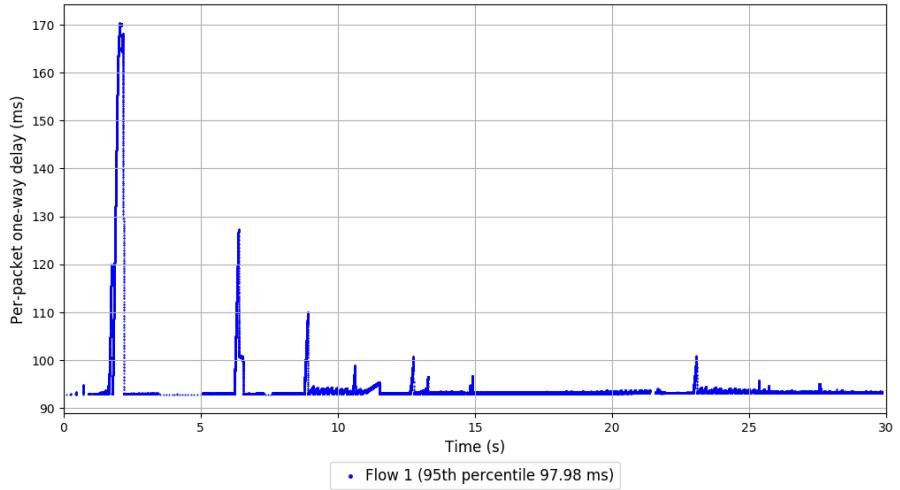
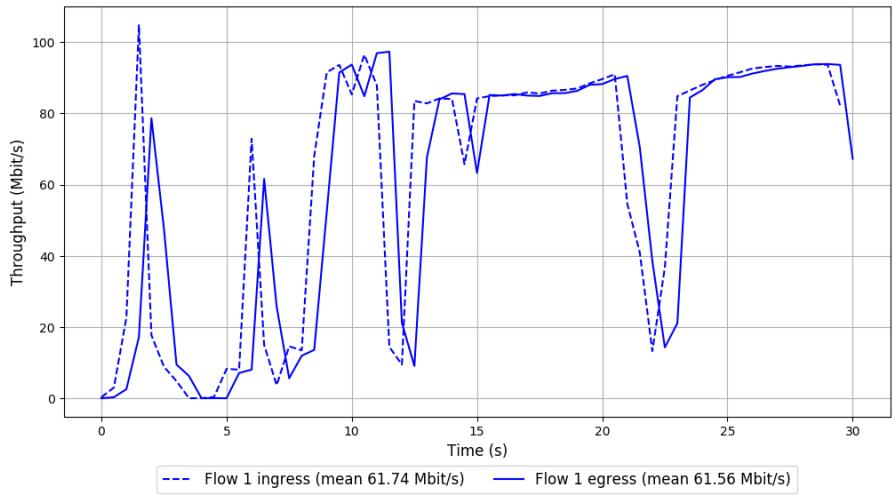


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-27 08:00:06
End at: 2019-03-27 08:00:36
Local clock offset: -4.447 ms
Remote clock offset: 7.759 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.56 Mbit/s
95th percentile per-packet one-way delay: 97.976 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 61.56 Mbit/s
95th percentile per-packet one-way delay: 97.976 ms
Loss rate: 0.88%
```

Run 4: Report of QUIC Cubic — Data Link

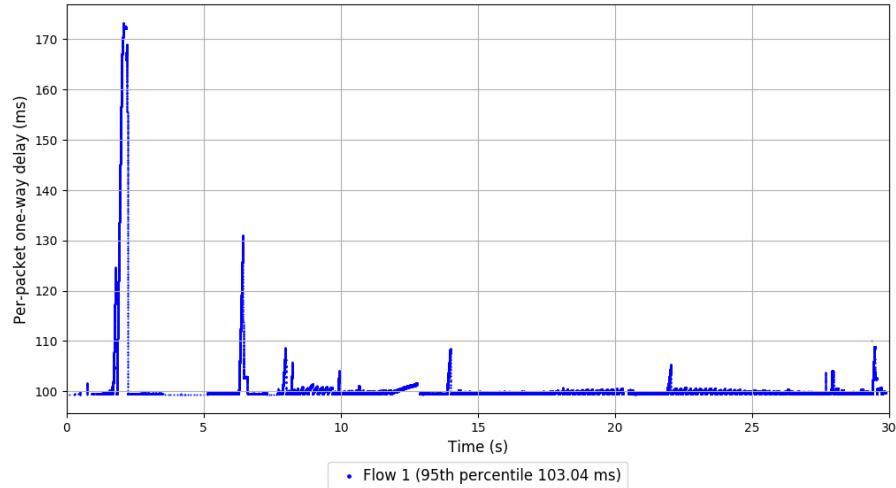
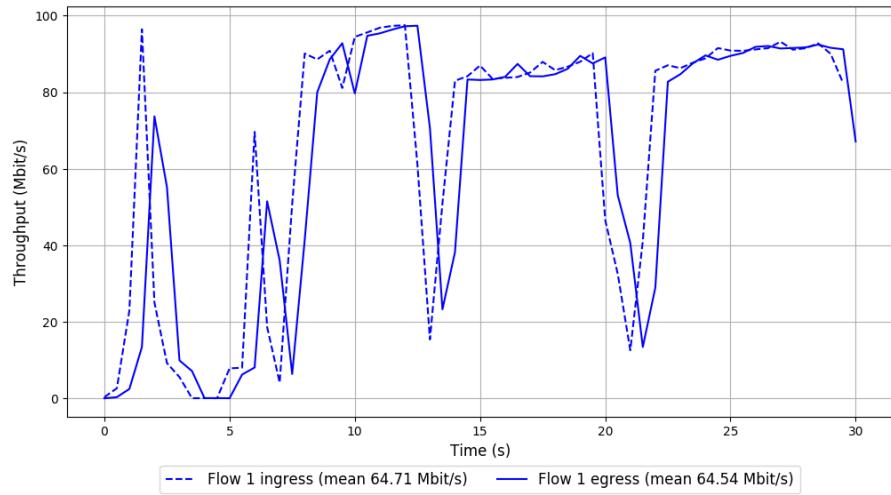


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-27 08:25:00
End at: 2019-03-27 08:25:30
Local clock offset: -5.086 ms
Remote clock offset: 13.307 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.54 Mbit/s
95th percentile per-packet one-way delay: 103.044 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 64.54 Mbit/s
95th percentile per-packet one-way delay: 103.044 ms
Loss rate: 0.85%
```

Run 5: Report of QUIC Cubic — Data Link

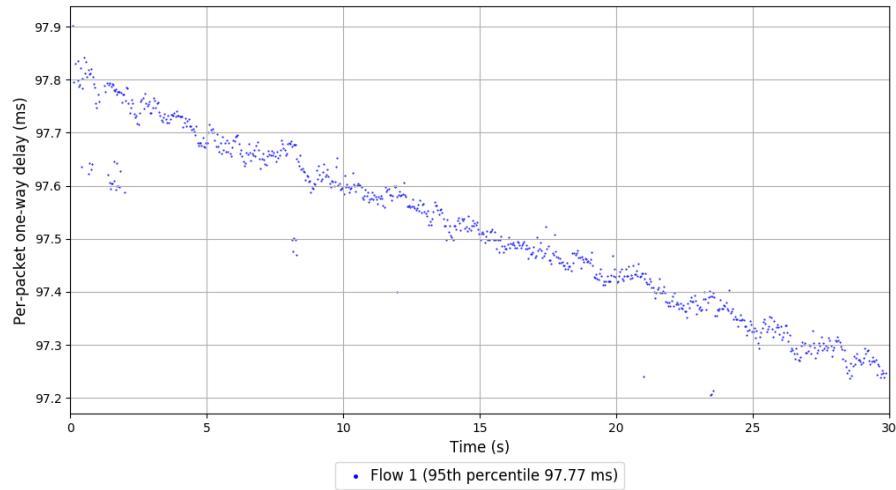
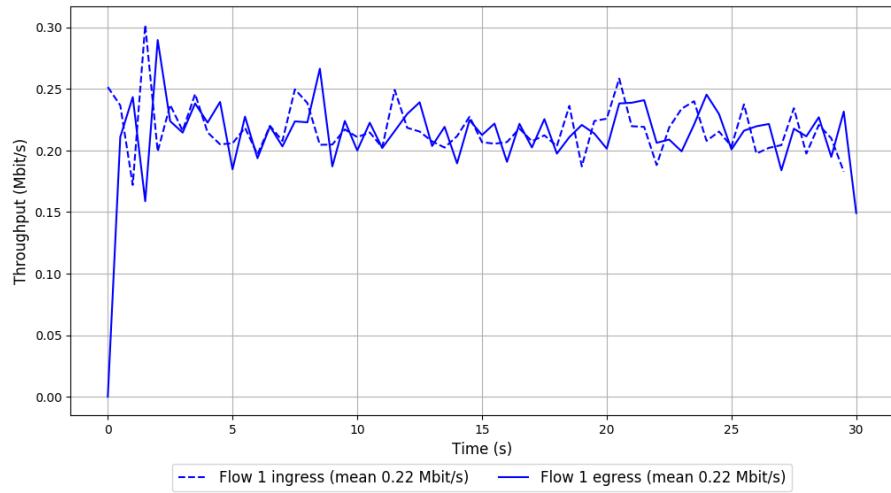


Run 1: Statistics of SCReAM

```
Start at: 2019-03-27 06:39:24
End at: 2019-03-27 06:39:54
Local clock offset: 3.213 ms
Remote clock offset: 10.778 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 97.774 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 97.774 ms
Loss rate: 0.51%
```

Run 1: Report of SCReAM — Data Link

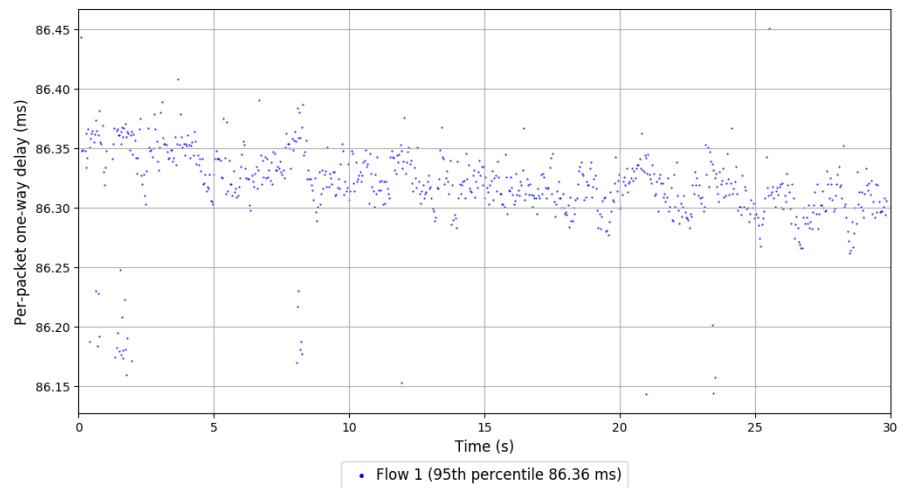
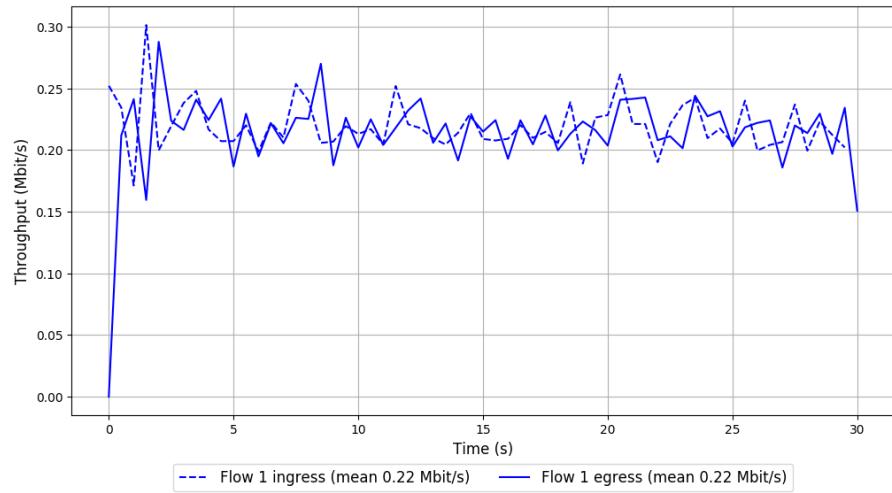


Run 2: Statistics of SCReAM

```
Start at: 2019-03-27 07:04:19
End at: 2019-03-27 07:04:49
Local clock offset: 1.984 ms
Remote clock offset: 6.335 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.364 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.364 ms
Loss rate: 0.64%
```

Run 2: Report of SCReAM — Data Link

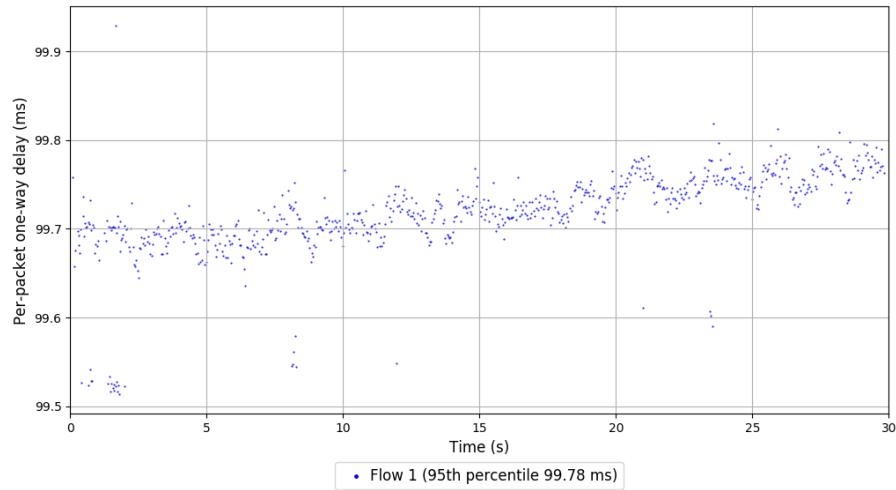
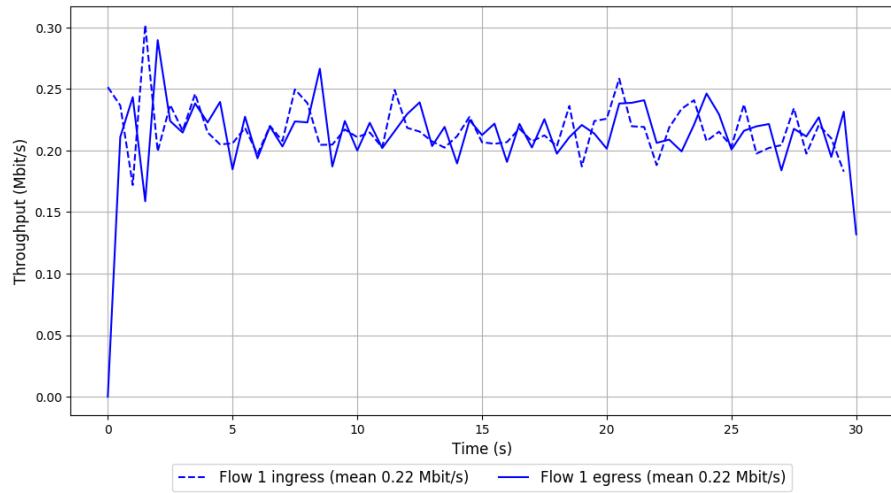


Run 3: Statistics of SCReAM

```
Start at: 2019-03-27 07:29:12
End at: 2019-03-27 07:29:42
Local clock offset: -2.511 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.777 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.777 ms
Loss rate: 0.64%
```

Run 3: Report of SCReAM — Data Link

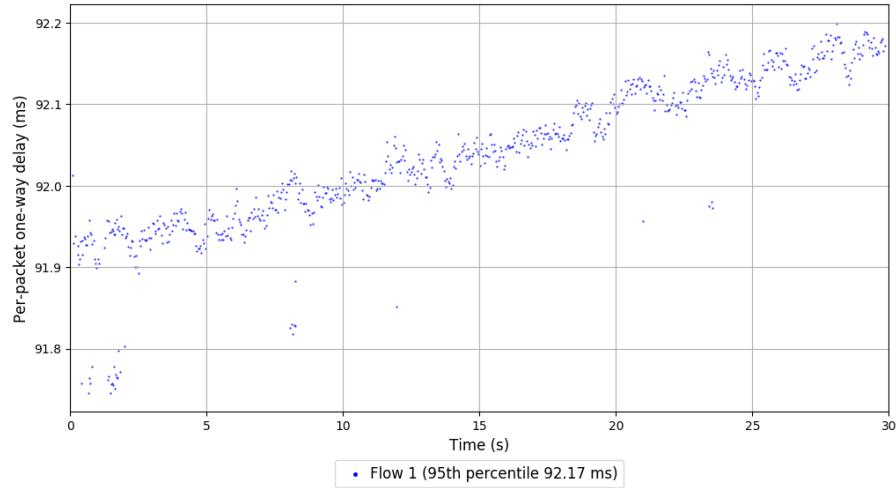
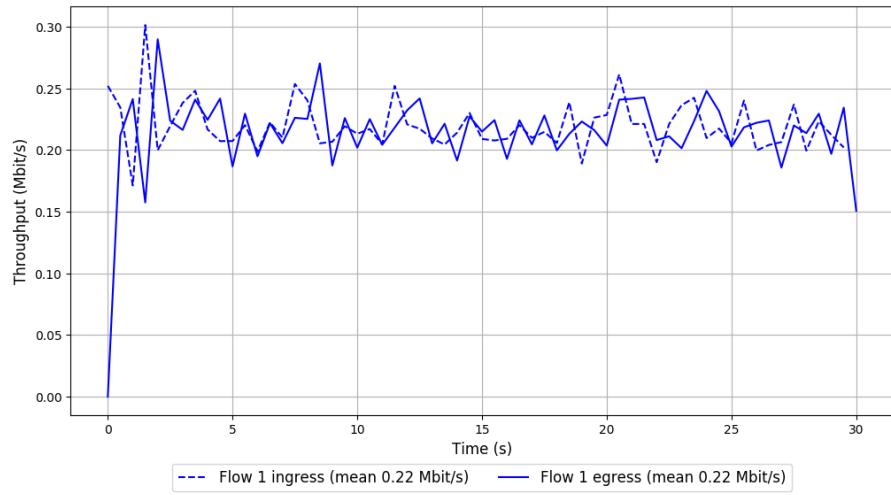


Run 4: Statistics of SCReAM

```
Start at: 2019-03-27 07:54:08
End at: 2019-03-27 07:54:38
Local clock offset: -4.607 ms
Remote clock offset: 5.562 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.165 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.165 ms
Loss rate: 0.64%
```

Run 4: Report of SCReAM — Data Link

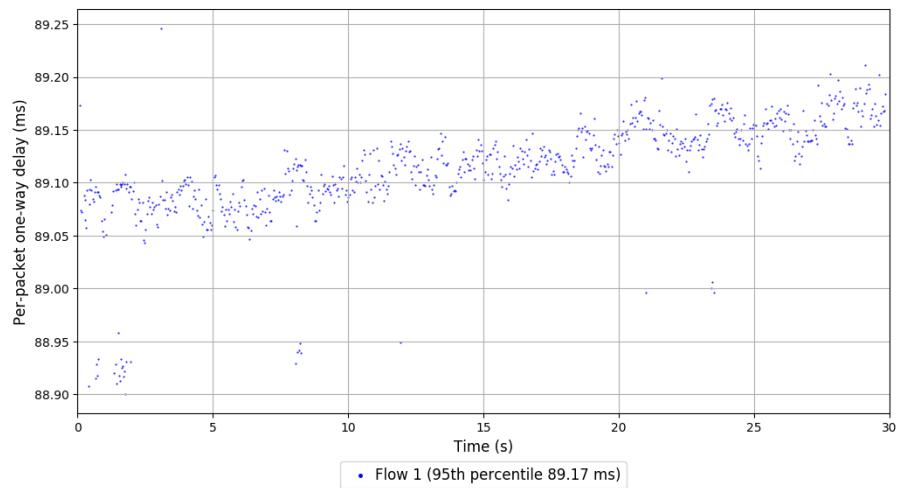
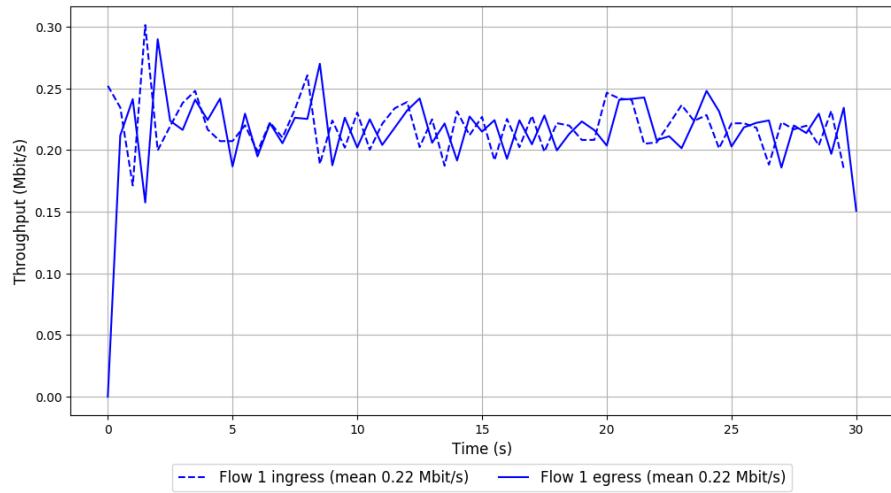


Run 5: Statistics of SCReAM

```
Start at: 2019-03-27 08:19:03
End at: 2019-03-27 08:19:33
Local clock offset: -4.882 ms
Remote clock offset: 16.369 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.173 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.173 ms
Loss rate: 0.51%
```

Run 5: Report of SCReAM — Data Link

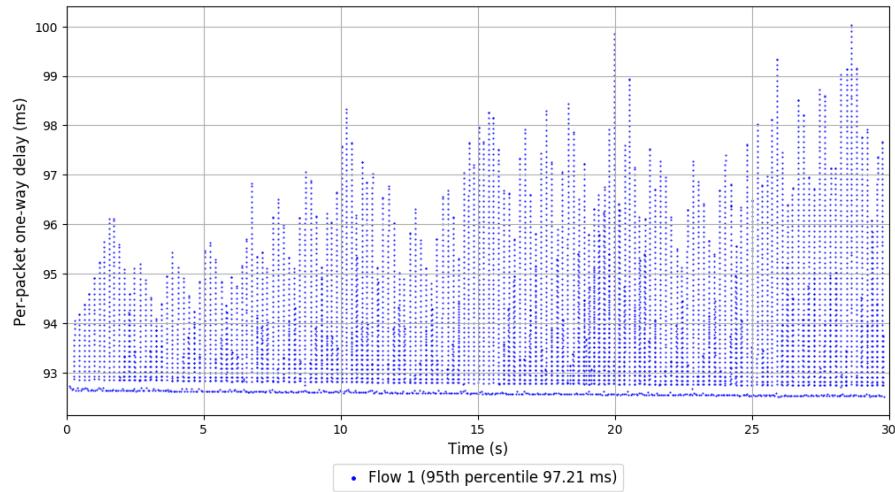
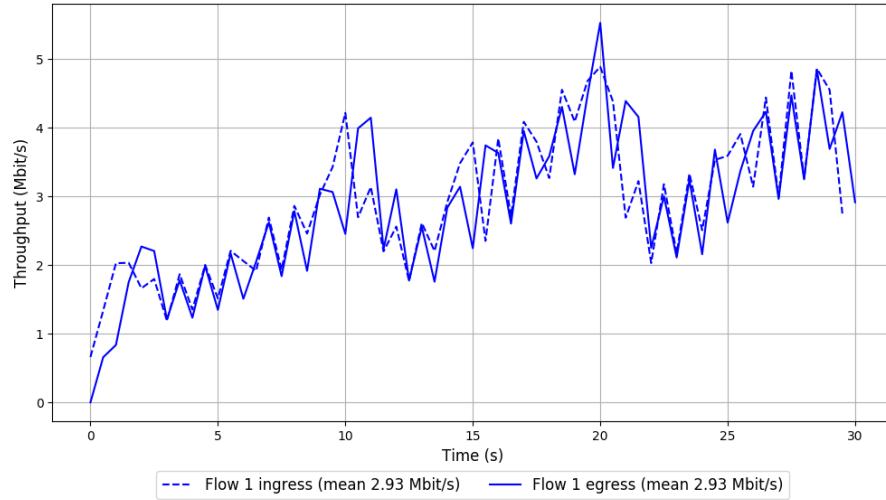


Run 1: Statistics of Sprout

```
Start at: 2019-03-27 06:50:03
End at: 2019-03-27 06:50:33
Local clock offset: 2.782 ms
Remote clock offset: 2.632 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.93 Mbit/s
95th percentile per-packet one-way delay: 97.210 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 2.93 Mbit/s
95th percentile per-packet one-way delay: 97.210 ms
Loss rate: 0.76%
```

Run 1: Report of Sprout — Data Link

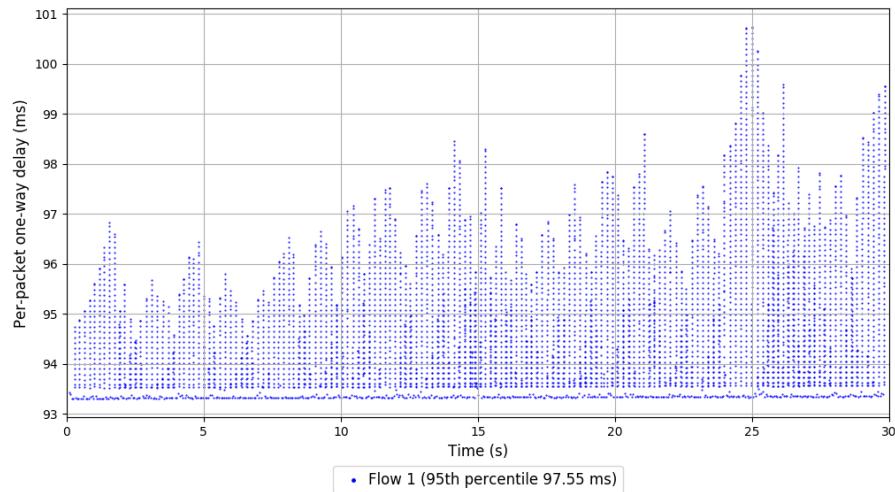
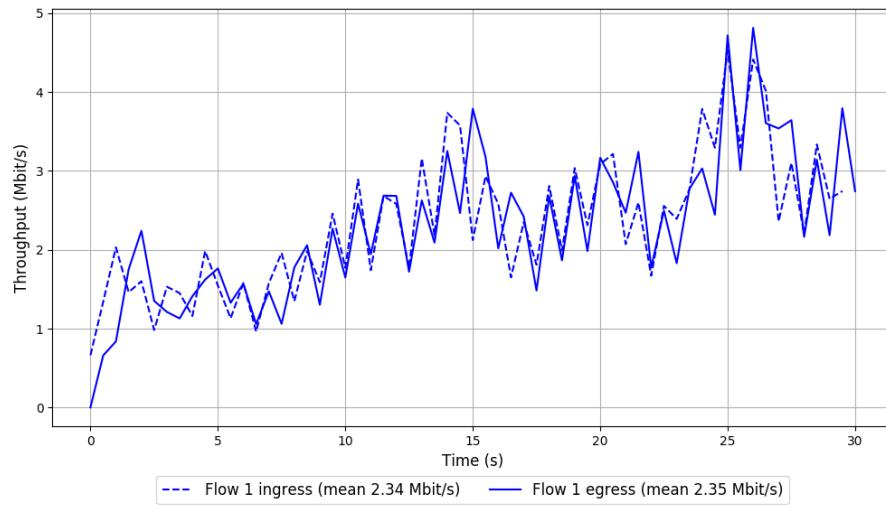


Run 2: Statistics of Sprout

```
Start at: 2019-03-27 07:14:57
End at: 2019-03-27 07:15:27
Local clock offset: 2.643 ms
Remote clock offset: -0.367 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 97.549 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 97.549 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

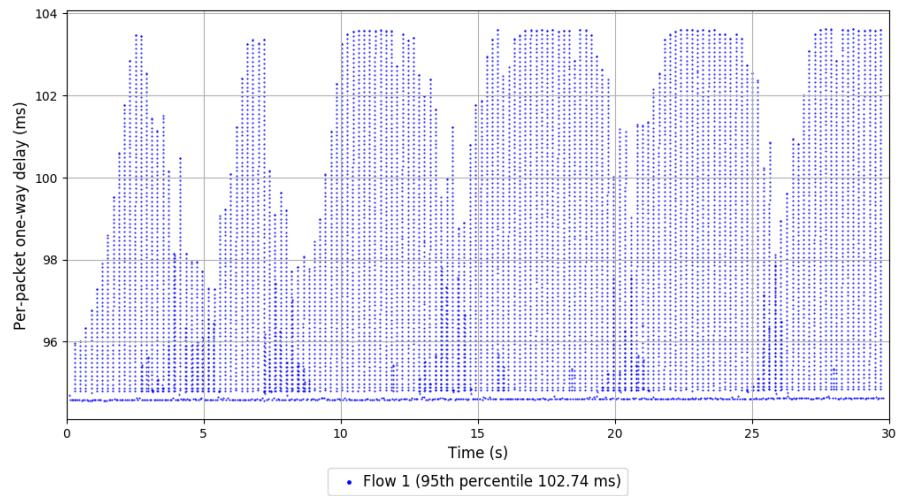
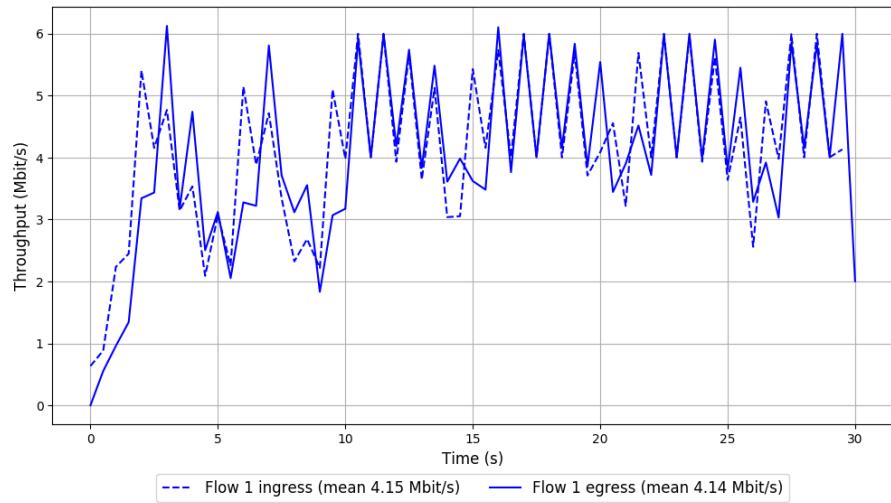


Run 3: Statistics of Sprout

```
Start at: 2019-03-27 07:39:52
End at: 2019-03-27 07:40:22
Local clock offset: -4.893 ms
Remote clock offset: 4.272 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 102.742 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 102.742 ms
Loss rate: 0.86%
```

Run 3: Report of Sprout — Data Link

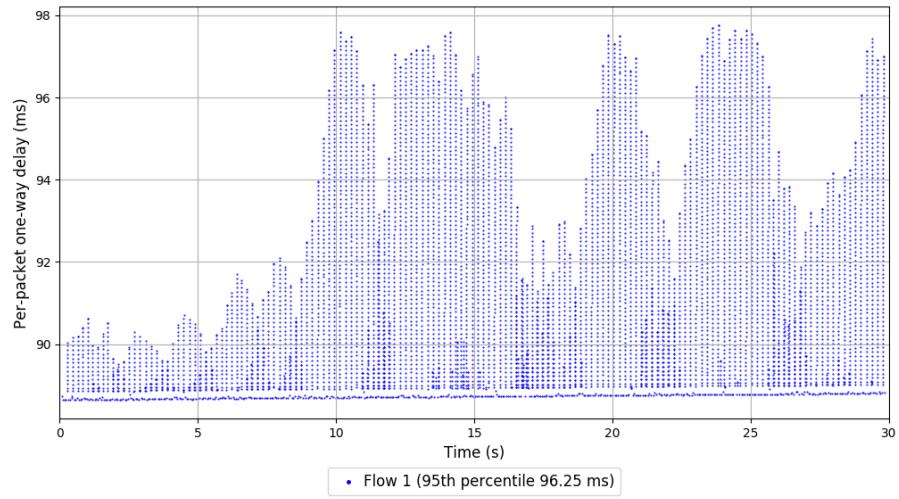
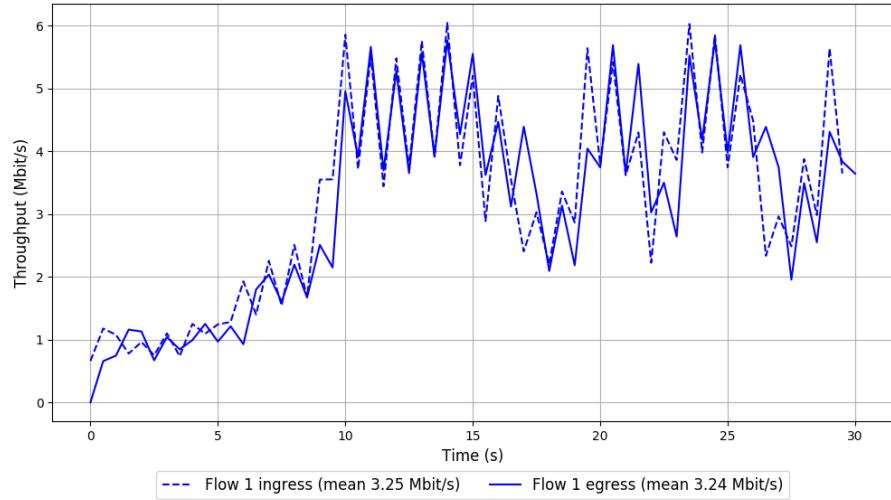


Run 4: Statistics of Sprout

```
Start at: 2019-03-27 08:04:48
End at: 2019-03-27 08:05:18
Local clock offset: -3.731 ms
Remote clock offset: 14.111 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.24 Mbit/s
95th percentile per-packet one-way delay: 96.255 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 3.24 Mbit/s
95th percentile per-packet one-way delay: 96.255 ms
Loss rate: 0.93%
```

Run 4: Report of Sprout — Data Link

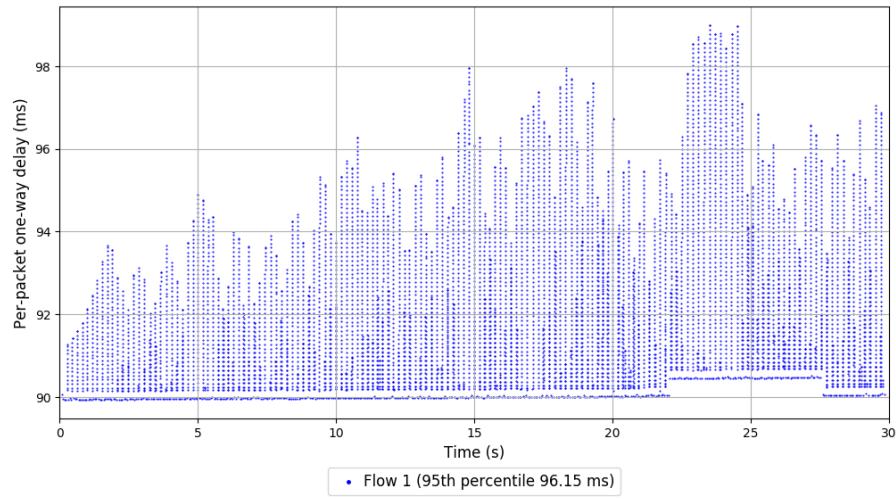
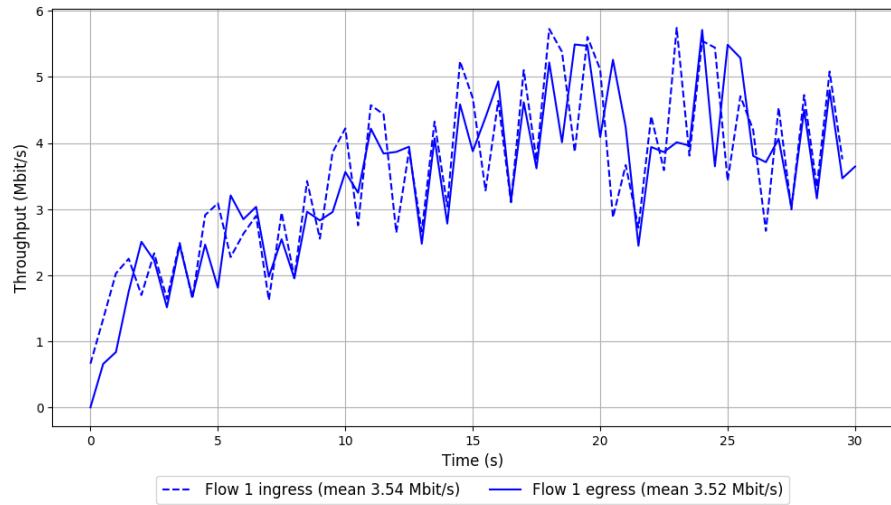


Run 5: Statistics of Sprout

```
Start at: 2019-03-27 08:29:43
End at: 2019-03-27 08:30:13
Local clock offset: -5.305 ms
Remote clock offset: 17.021 ms

# Below is generated by plot.py at 2019-03-27 08:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 96.147 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 96.147 ms
Loss rate: 0.86%
```

Run 5: Report of Sprout — Data Link

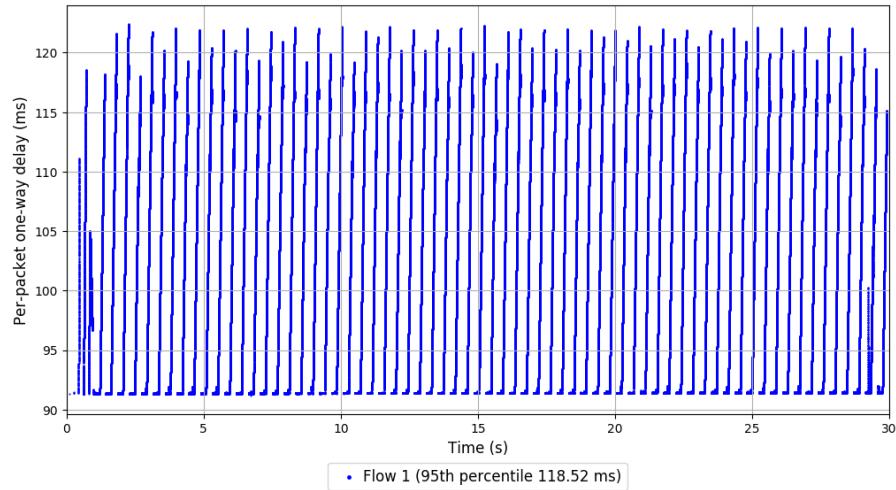
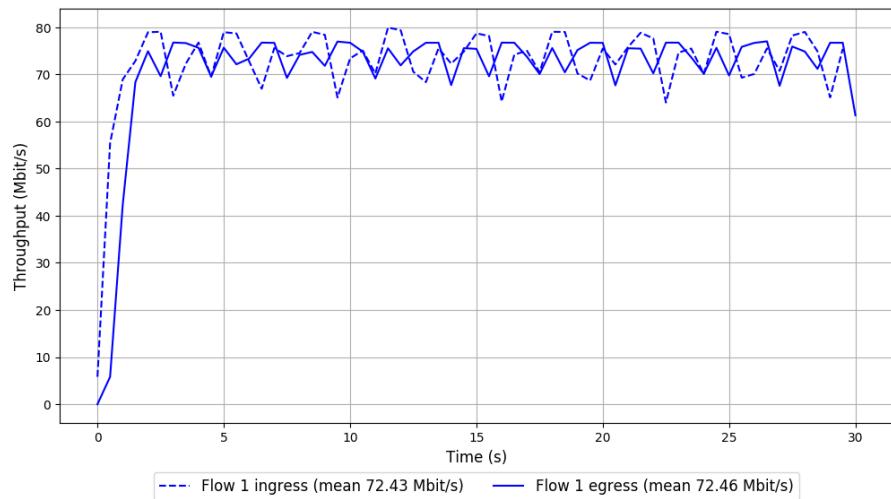


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-03-27 06:32:11
End at: 2019-03-27 06:32:41
Local clock offset: 3.307 ms
Remote clock offset: 11.67 ms

# Below is generated by plot.py at 2019-03-27 08:47:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.46 Mbit/s
95th percentile per-packet one-way delay: 118.518 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 72.46 Mbit/s
95th percentile per-packet one-way delay: 118.518 ms
Loss rate: 0.53%
```

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

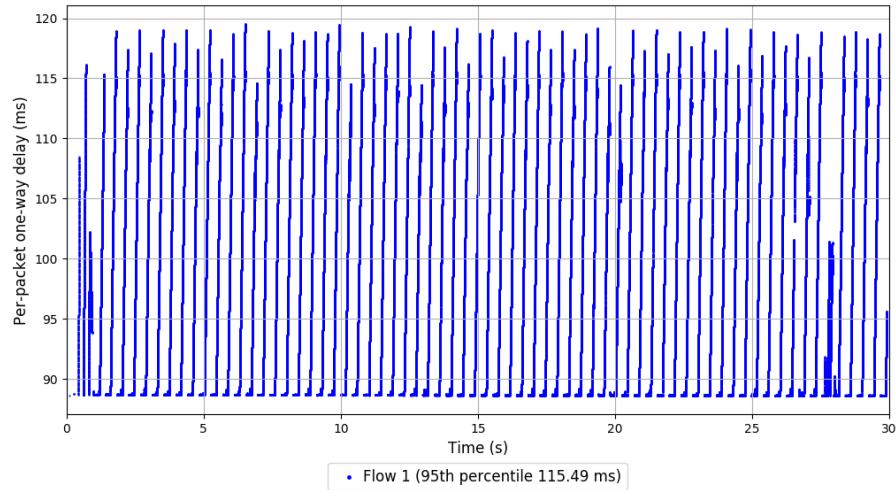
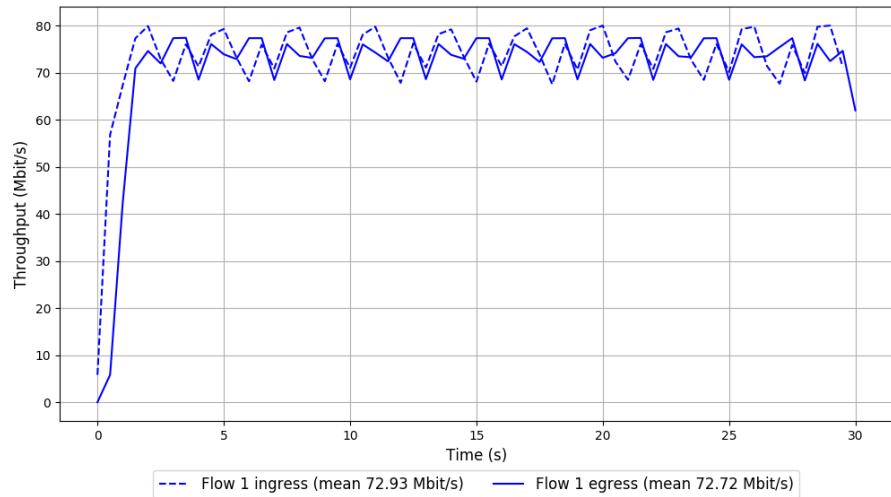


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-03-27 06:57:07
End at: 2019-03-27 06:57:37
Local clock offset: 2.212 ms
Remote clock offset: 4.649 ms

# Below is generated by plot.py at 2019-03-27 08:47:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.72 Mbit/s
95th percentile per-packet one-way delay: 115.492 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 72.72 Mbit/s
95th percentile per-packet one-way delay: 115.492 ms
Loss rate: 0.73%
```

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

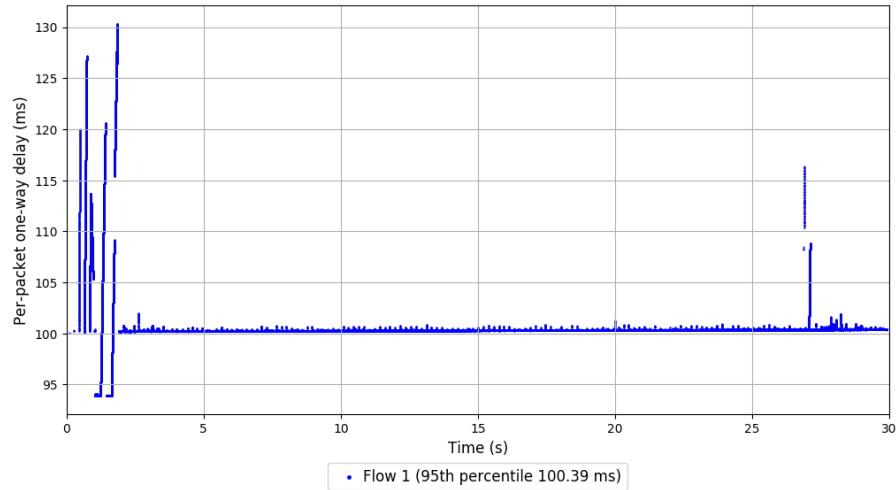
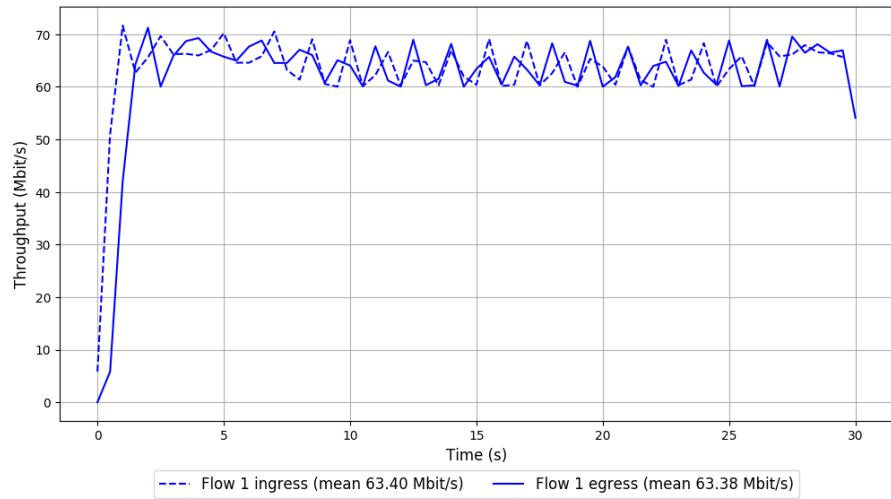


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-03-27 07:22:01
End at: 2019-03-27 07:22:31
Local clock offset: -0.498 ms
Remote clock offset: -0.288 ms

# Below is generated by plot.py at 2019-03-27 08:47:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.38 Mbit/s
95th percentile per-packet one-way delay: 100.394 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 63.38 Mbit/s
95th percentile per-packet one-way delay: 100.394 ms
Loss rate: 0.63%
```

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

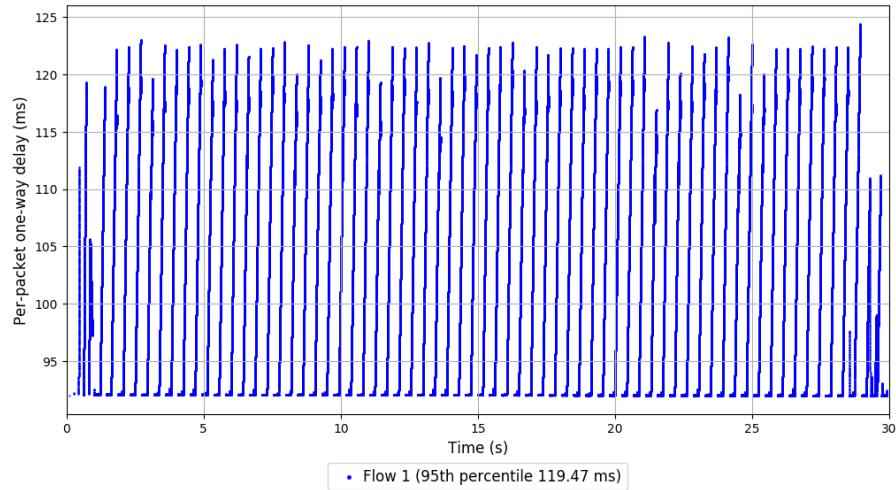
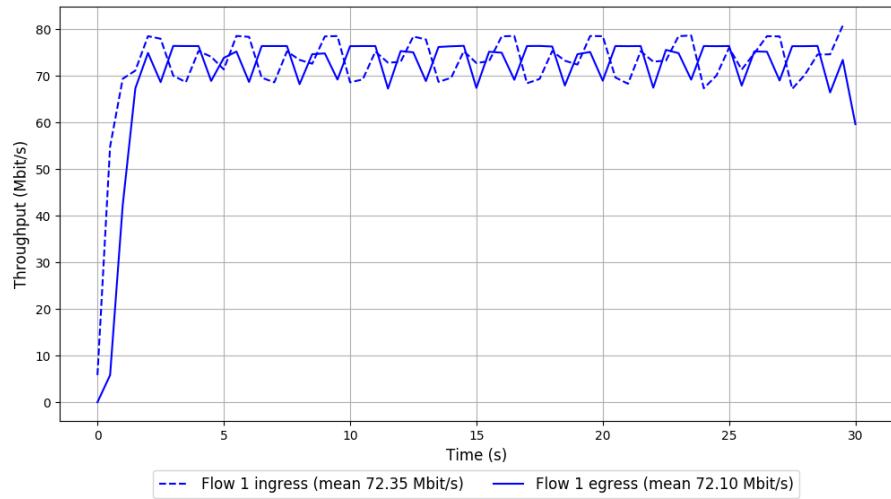


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-03-27 07:46:55
End at: 2019-03-27 07:47:25
Local clock offset: -5.358 ms
Remote clock offset: 0.37 ms

# Below is generated by plot.py at 2019-03-27 08:47:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.10 Mbit/s
95th percentile per-packet one-way delay: 119.466 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 72.10 Mbit/s
95th percentile per-packet one-way delay: 119.466 ms
Loss rate: 0.91%
```

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

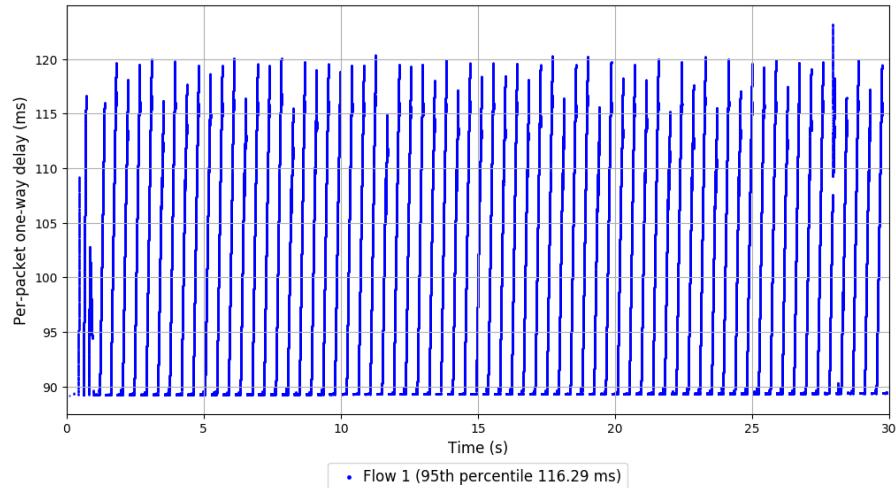
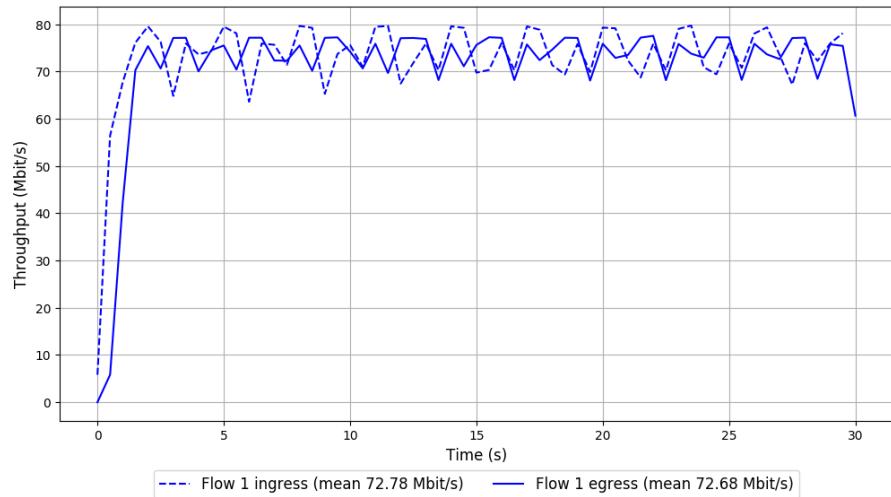


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-03-27 08:11:51
End at: 2019-03-27 08:12:21
Local clock offset: -4.675 ms
Remote clock offset: 14.768 ms

# Below is generated by plot.py at 2019-03-27 08:47:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.68 Mbit/s
95th percentile per-packet one-way delay: 116.291 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 72.68 Mbit/s
95th percentile per-packet one-way delay: 116.291 ms
Loss rate: 0.70%
```

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

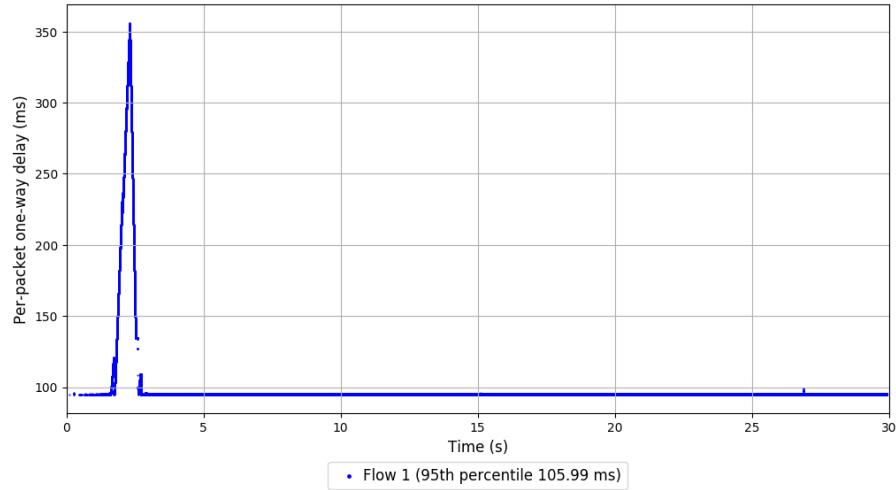
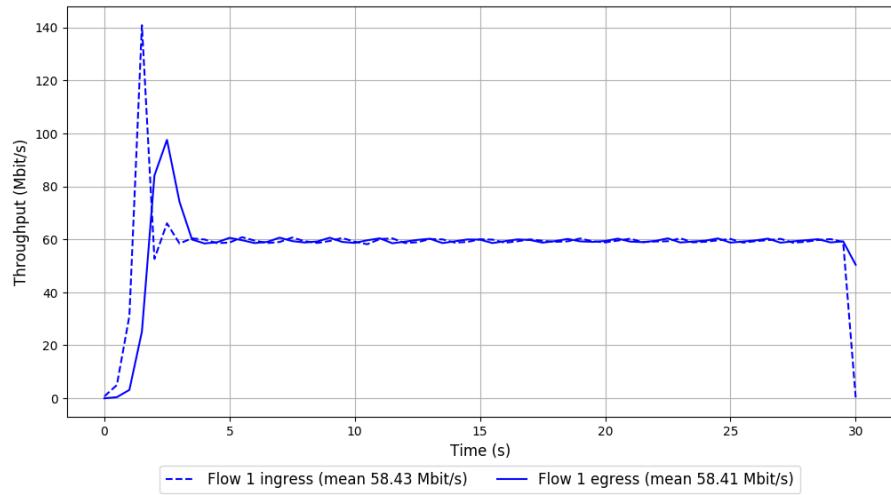


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-27 06:35:49
End at: 2019-03-27 06:36:19
Local clock offset: 4.066 ms
Remote clock offset: 16.125 ms

# Below is generated by plot.py at 2019-03-27 08:47:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.41 Mbit/s
95th percentile per-packet one-way delay: 105.993 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 58.41 Mbit/s
95th percentile per-packet one-way delay: 105.993 ms
Loss rate: 0.62%
```

Run 1: Report of TCP Vegas — Data Link

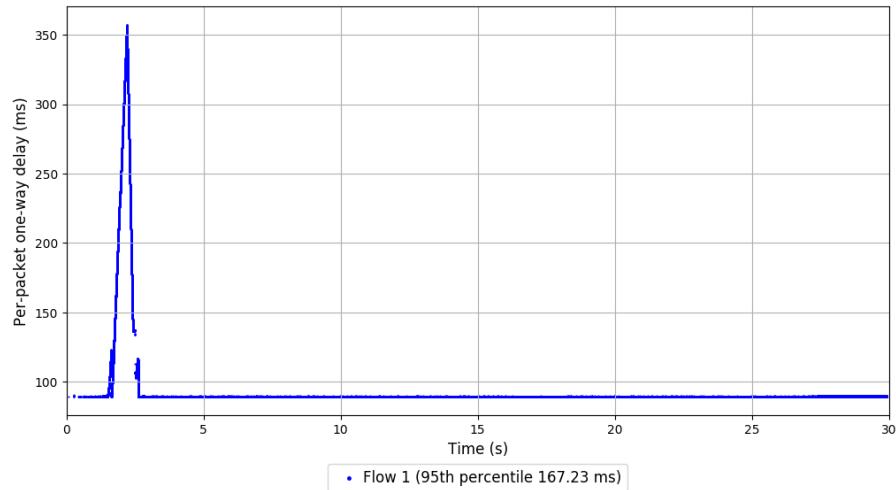
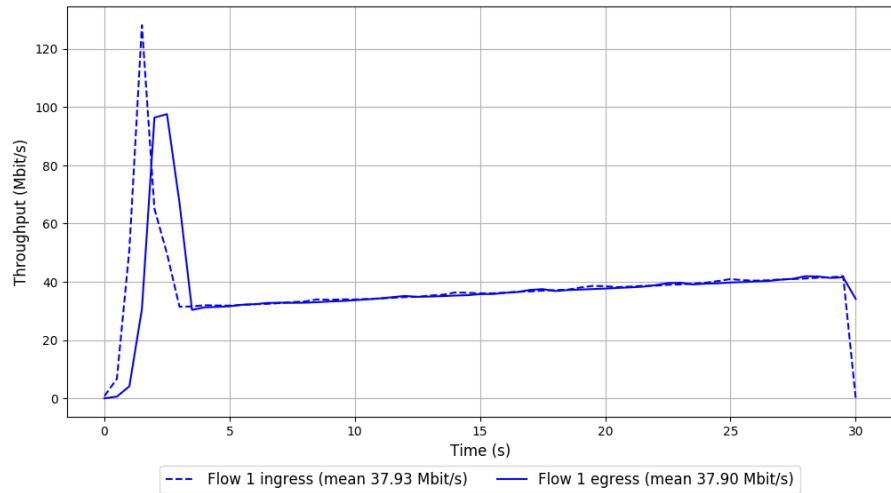


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-27 07:00:44
End at: 2019-03-27 07:01:14
Local clock offset: 2.779 ms
Remote clock offset: 4.351 ms

# Below is generated by plot.py at 2019-03-27 08:47:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.90 Mbit/s
95th percentile per-packet one-way delay: 167.230 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 37.90 Mbit/s
95th percentile per-packet one-way delay: 167.230 ms
Loss rate: 0.66%
```

Run 2: Report of TCP Vegas — Data Link

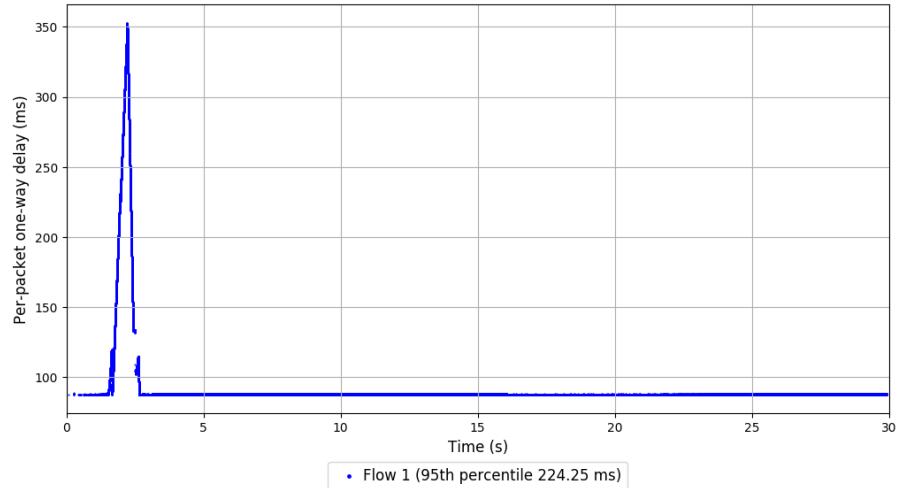
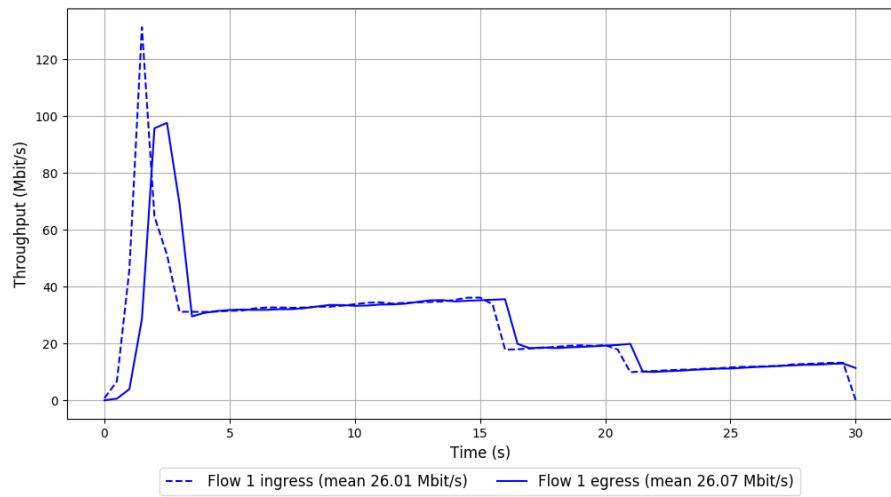


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-27 07:25:38
End at: 2019-03-27 07:26:08
Local clock offset: -2.463 ms
Remote clock offset: 4.919 ms

# Below is generated by plot.py at 2019-03-27 08:47:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.07 Mbit/s
95th percentile per-packet one-way delay: 224.250 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 26.07 Mbit/s
95th percentile per-packet one-way delay: 224.250 ms
Loss rate: 0.34%
```

Run 3: Report of TCP Vegas — Data Link

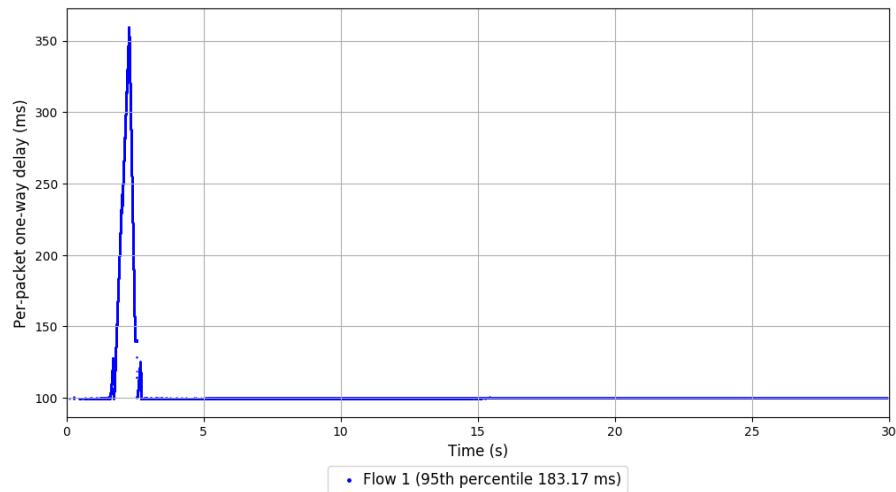
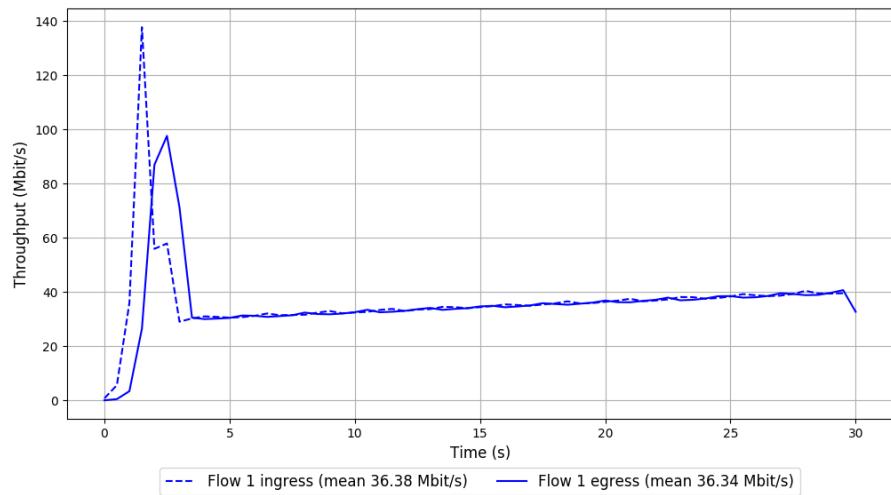


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-27 07:50:34
End at: 2019-03-27 07:51:04
Local clock offset: -4.102 ms
Remote clock offset: 2.615 ms

# Below is generated by plot.py at 2019-03-27 08:47:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.34 Mbit/s
95th percentile per-packet one-way delay: 183.172 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 36.34 Mbit/s
95th percentile per-packet one-way delay: 183.172 ms
Loss rate: 0.69%
```

Run 4: Report of TCP Vegas — Data Link

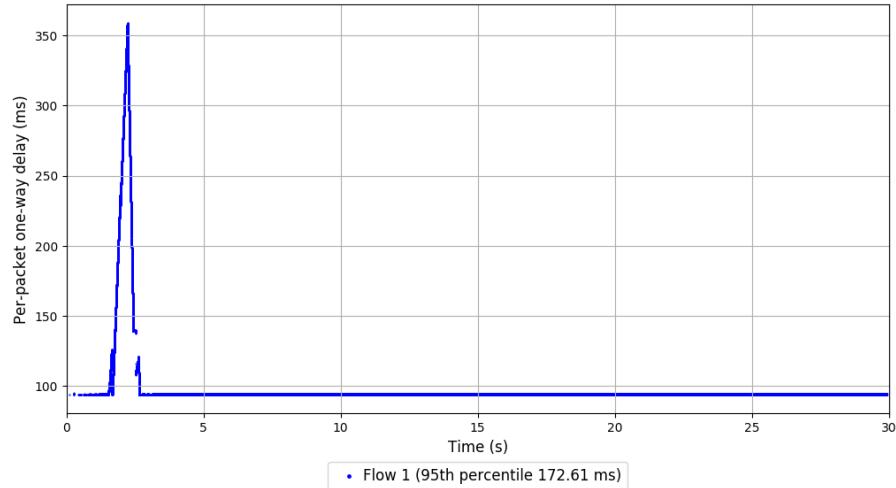
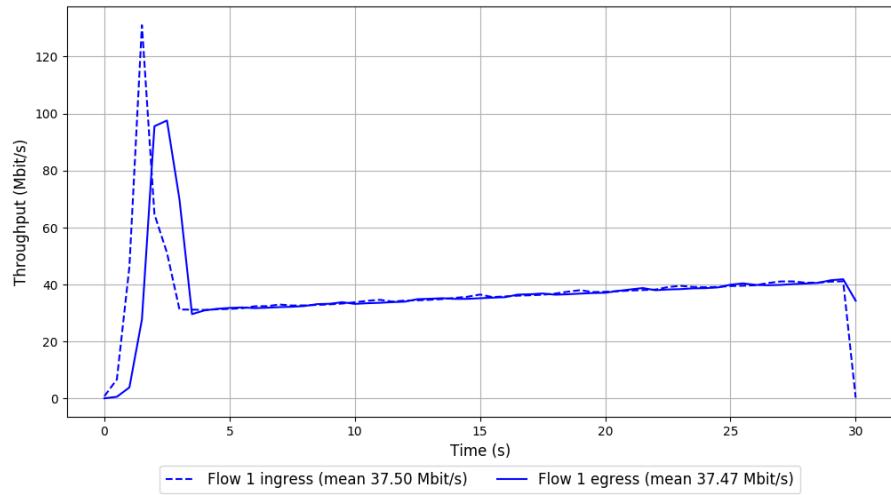


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-27 08:15:28
End at: 2019-03-27 08:15:58
Local clock offset: -4.112 ms
Remote clock offset: 11.575 ms

# Below is generated by plot.py at 2019-03-27 08:47:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 172.612 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 172.612 ms
Loss rate: 0.66%
```

Run 5: Report of TCP Vegas — Data Link

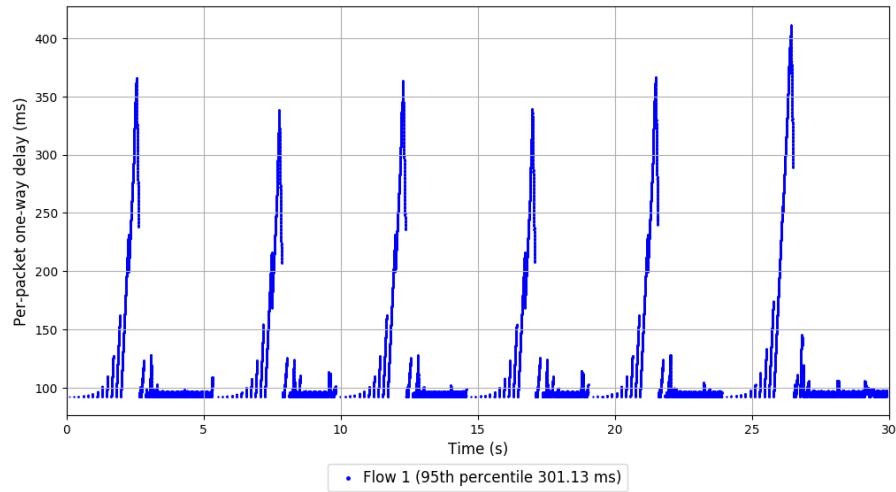
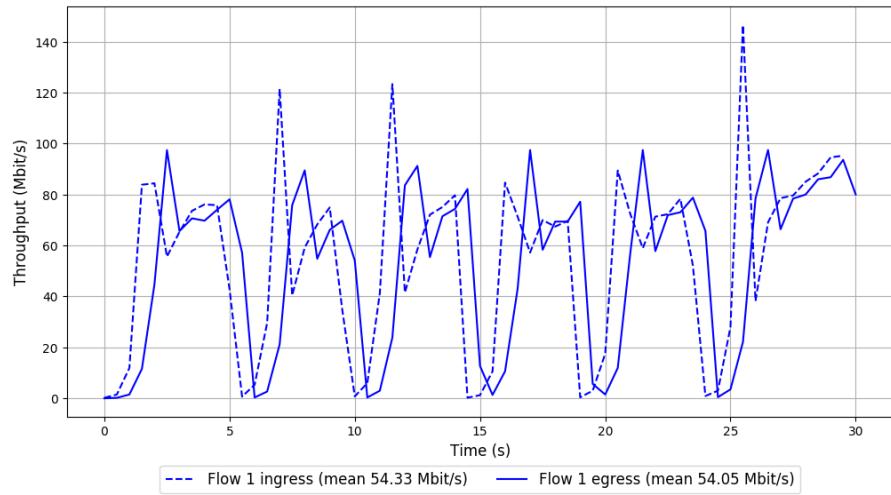


Run 1: Statistics of Verus

```
Start at: 2019-03-27 06:33:24
End at: 2019-03-27 06:33:54
Local clock offset: 3.256 ms
Remote clock offset: 10.769 ms

# Below is generated by plot.py at 2019-03-27 08:47:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.05 Mbit/s
95th percentile per-packet one-way delay: 301.130 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 54.05 Mbit/s
95th percentile per-packet one-way delay: 301.130 ms
Loss rate: 1.08%
```

Run 1: Report of Verus — Data Link

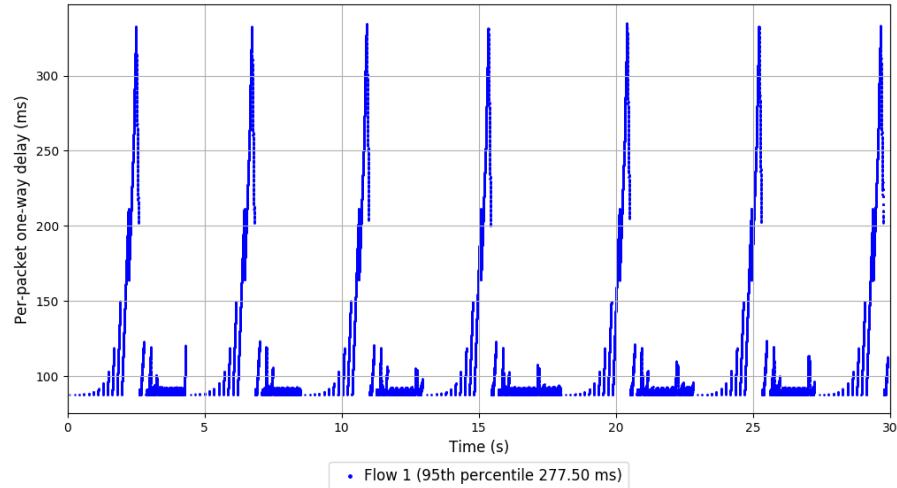
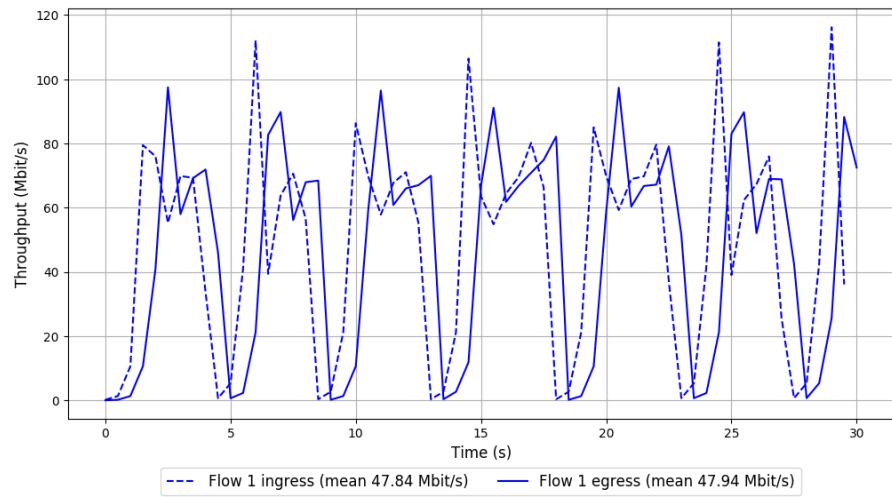


Run 2: Statistics of Verus

```
Start at: 2019-03-27 06:58:20
End at: 2019-03-27 06:58:50
Local clock offset: 2.119 ms
Remote clock offset: 5.454 ms

# Below is generated by plot.py at 2019-03-27 08:47:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.94 Mbit/s
95th percentile per-packet one-way delay: 277.499 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 47.94 Mbit/s
95th percentile per-packet one-way delay: 277.499 ms
Loss rate: 0.35%
```

Run 2: Report of Verus — Data Link

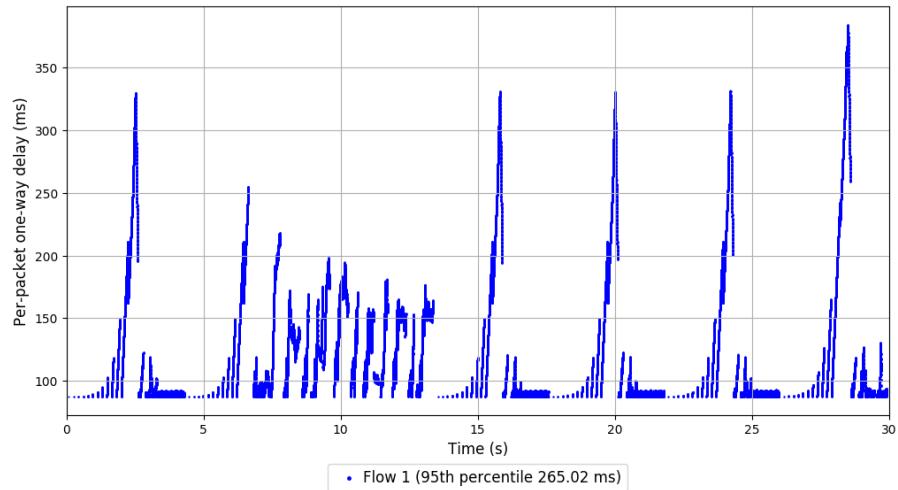
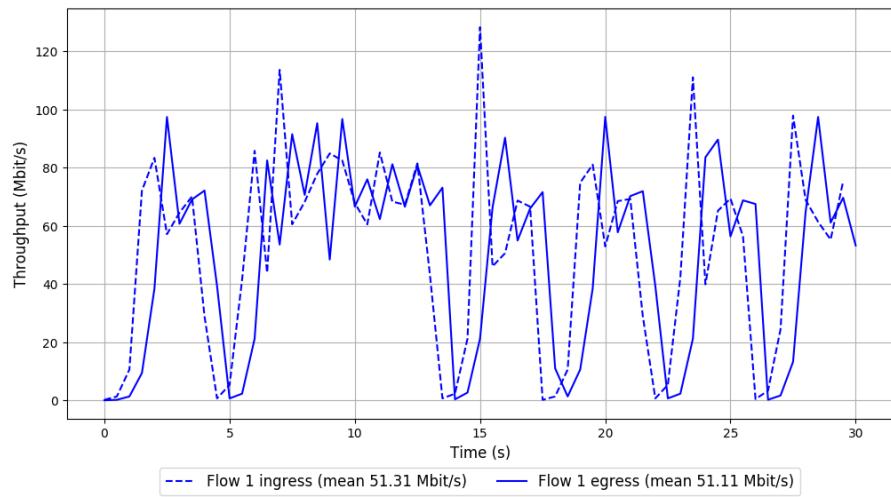


Run 3: Statistics of Verus

```
Start at: 2019-03-27 07:23:14
End at: 2019-03-27 07:23:44
Local clock offset: -0.922 ms
Remote clock offset: 6.279 ms

# Below is generated by plot.py at 2019-03-27 08:47:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.11 Mbit/s
95th percentile per-packet one-way delay: 265.016 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 51.11 Mbit/s
95th percentile per-packet one-way delay: 265.016 ms
Loss rate: 0.95%
```

Run 3: Report of Verus — Data Link

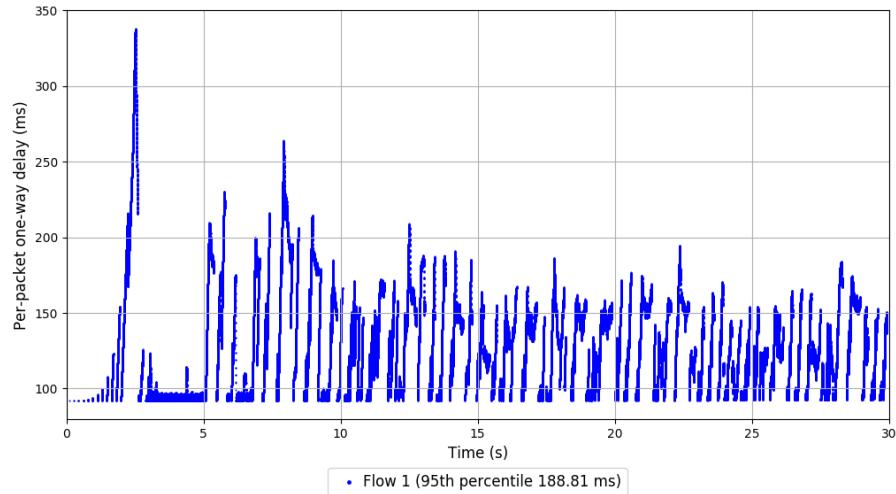
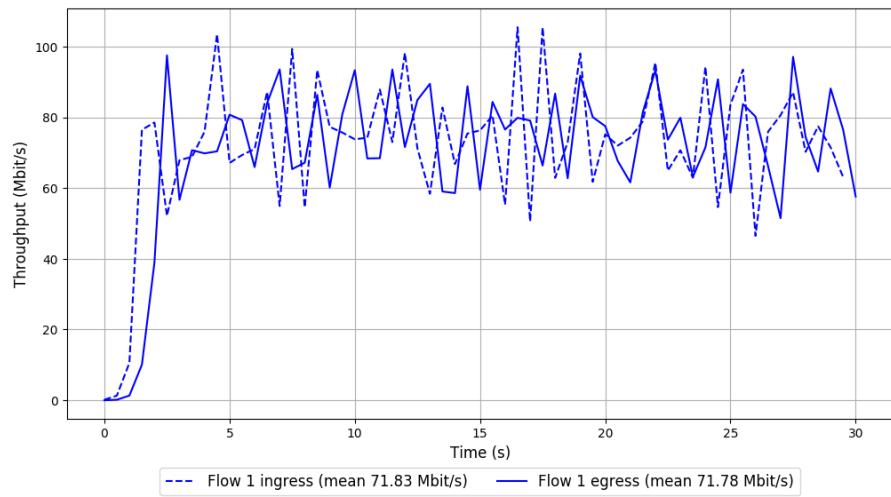


Run 4: Statistics of Verus

```
Start at: 2019-03-27 07:48:09
End at: 2019-03-27 07:48:39
Local clock offset: -4.379 ms
Remote clock offset: 1.544 ms

# Below is generated by plot.py at 2019-03-27 08:47:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.78 Mbit/s
95th percentile per-packet one-way delay: 188.815 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 71.78 Mbit/s
95th percentile per-packet one-way delay: 188.815 ms
Loss rate: 0.64%
```

Run 4: Report of Verus — Data Link

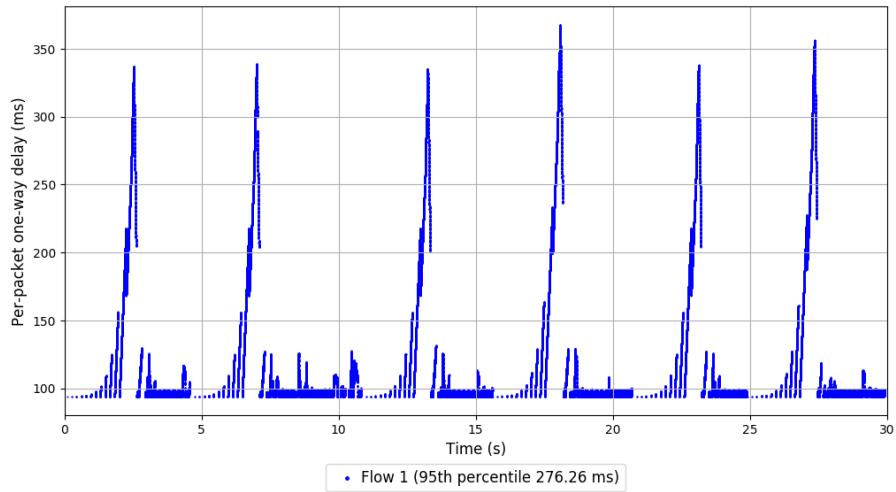
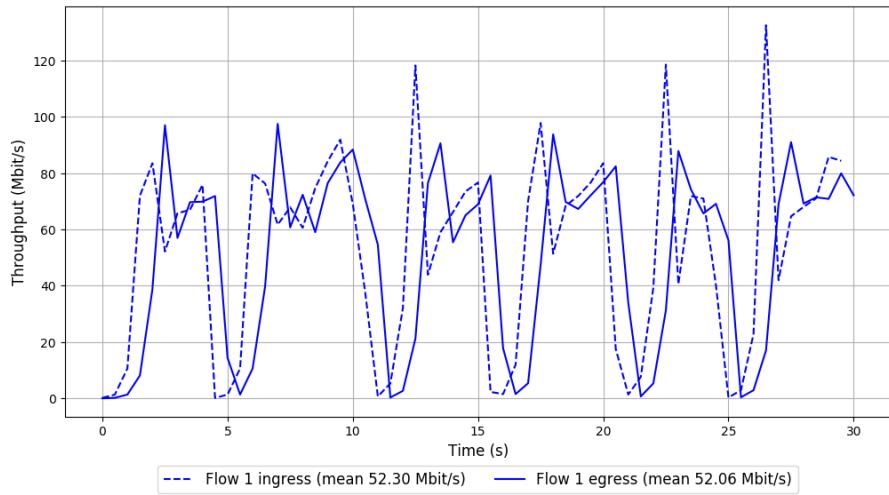


Run 5: Statistics of Verus

```
Start at: 2019-03-27 08:13:04
End at: 2019-03-27 08:13:34
Local clock offset: -3.958 ms
Remote clock offset: 11.283 ms

# Below is generated by plot.py at 2019-03-27 08:47:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.06 Mbit/s
95th percentile per-packet one-way delay: 276.260 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 52.06 Mbit/s
95th percentile per-packet one-way delay: 276.260 ms
Loss rate: 1.03%
```

Run 5: Report of Verus — Data Link

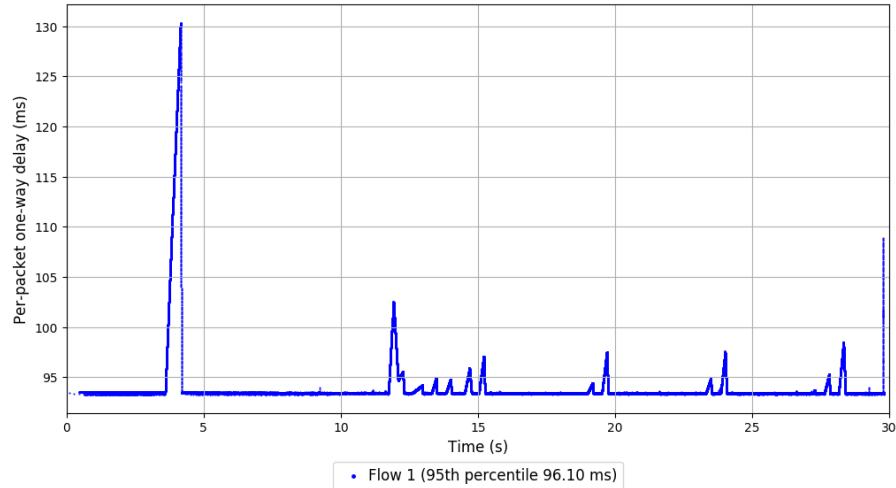
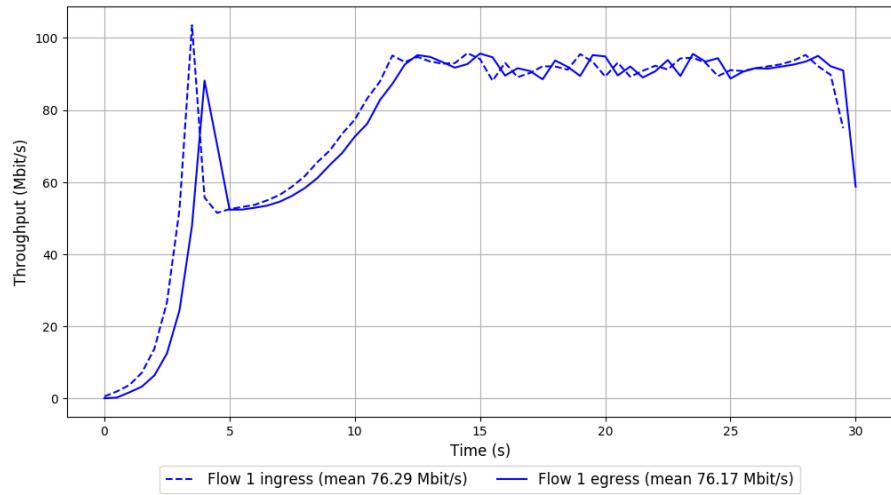


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-03-27 06:52:20
End at: 2019-03-27 06:52:50
Local clock offset: 3.309 ms
Remote clock offset: 1.996 ms

# Below is generated by plot.py at 2019-03-27 08:48:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.17 Mbit/s
95th percentile per-packet one-way delay: 96.098 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 76.17 Mbit/s
95th percentile per-packet one-way delay: 96.098 ms
Loss rate: 0.72%
```

Run 1: Report of PCC-Vivace — Data Link

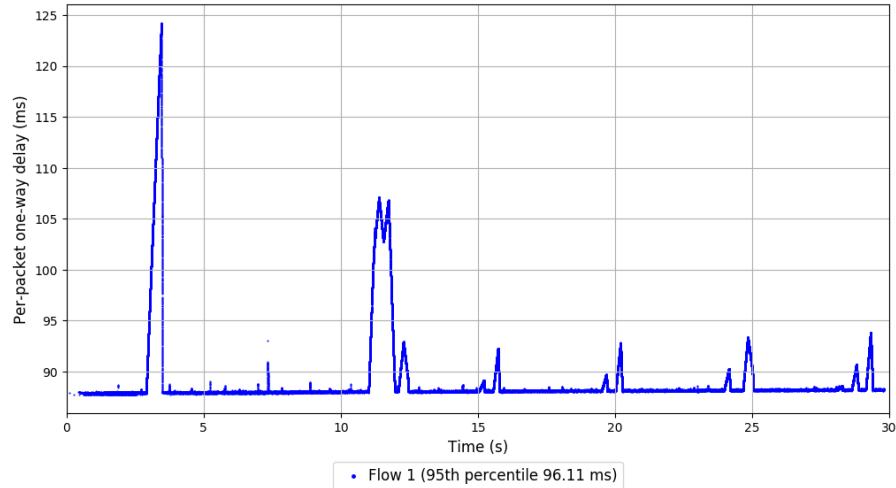
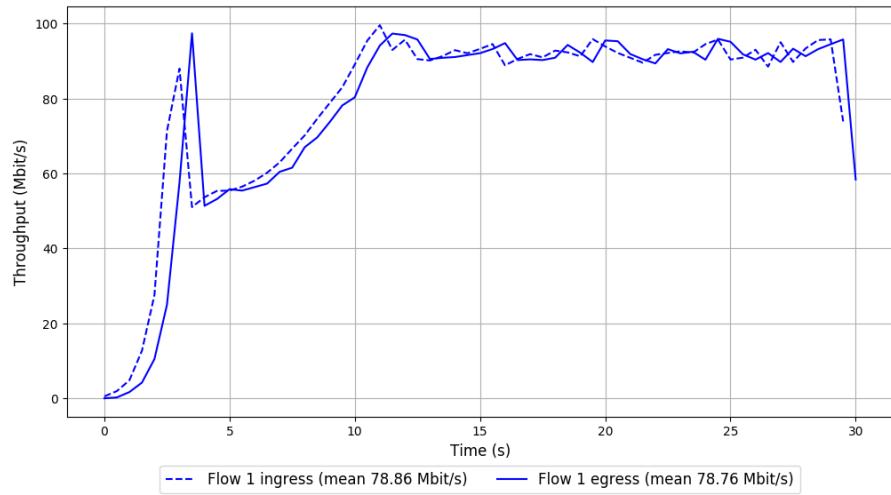


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-27 07:17:14
End at: 2019-03-27 07:17:44
Local clock offset: 1.09 ms
Remote clock offset: 4.732 ms

# Below is generated by plot.py at 2019-03-27 08:48:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.76 Mbit/s
95th percentile per-packet one-way delay: 96.108 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 78.76 Mbit/s
95th percentile per-packet one-way delay: 96.108 ms
Loss rate: 0.70%
```

Run 2: Report of PCC-Vivace — Data Link

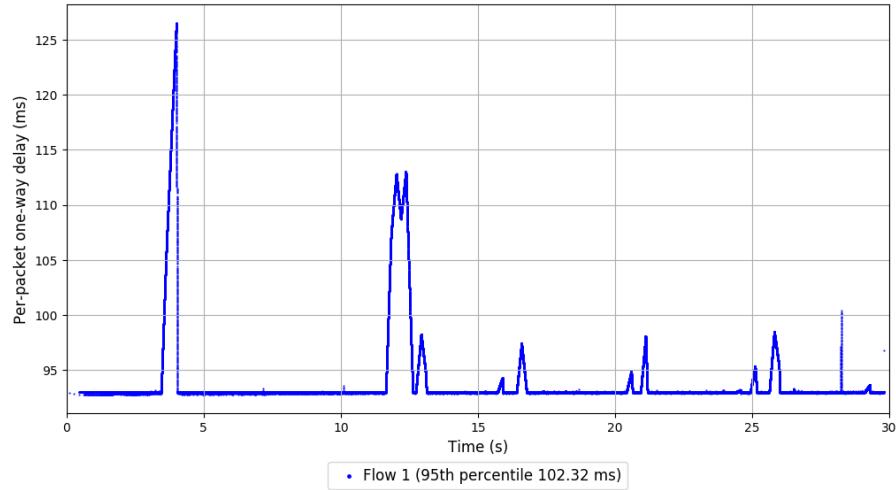
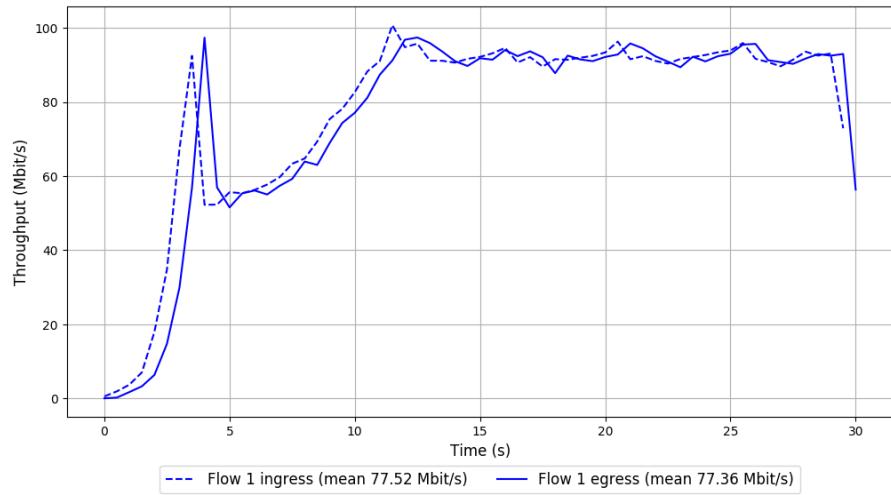


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-27 07:42:09
End at: 2019-03-27 07:42:39
Local clock offset: -4.408 ms
Remote clock offset: 0.491 ms

# Below is generated by plot.py at 2019-03-27 08:48:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.36 Mbit/s
95th percentile per-packet one-way delay: 102.318 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 77.36 Mbit/s
95th percentile per-packet one-way delay: 102.318 ms
Loss rate: 0.76%
```

Run 3: Report of PCC-Vivace — Data Link

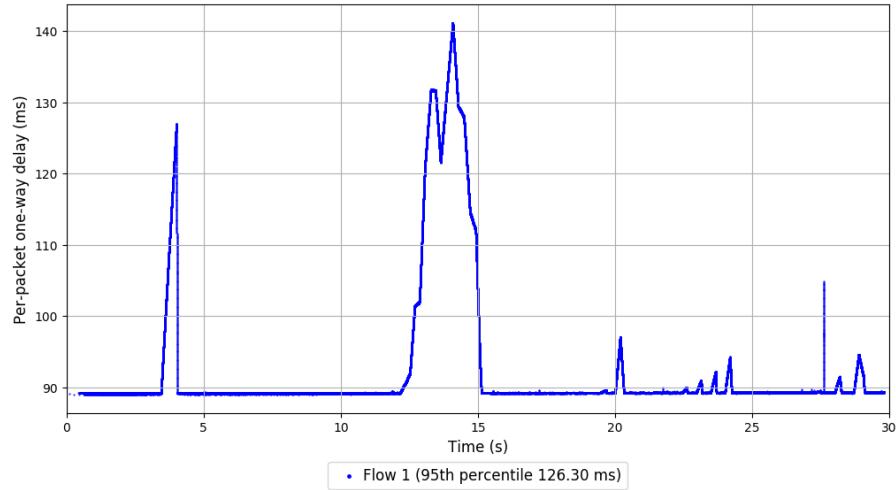
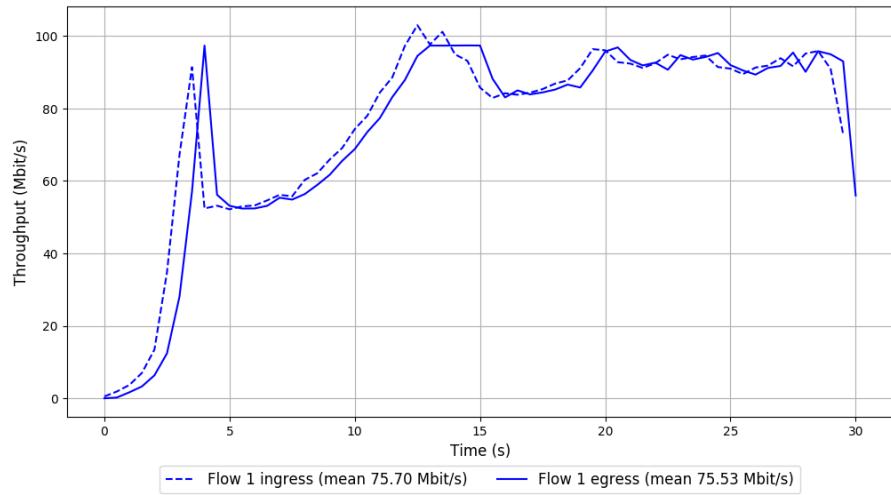


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-27 08:07:04
End at: 2019-03-27 08:07:34
Local clock offset: -4.532 ms
Remote clock offset: 13.712 ms

# Below is generated by plot.py at 2019-03-27 08:48:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.53 Mbit/s
95th percentile per-packet one-way delay: 126.302 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 75.53 Mbit/s
95th percentile per-packet one-way delay: 126.302 ms
Loss rate: 0.80%
```

Run 4: Report of PCC-Vivace — Data Link

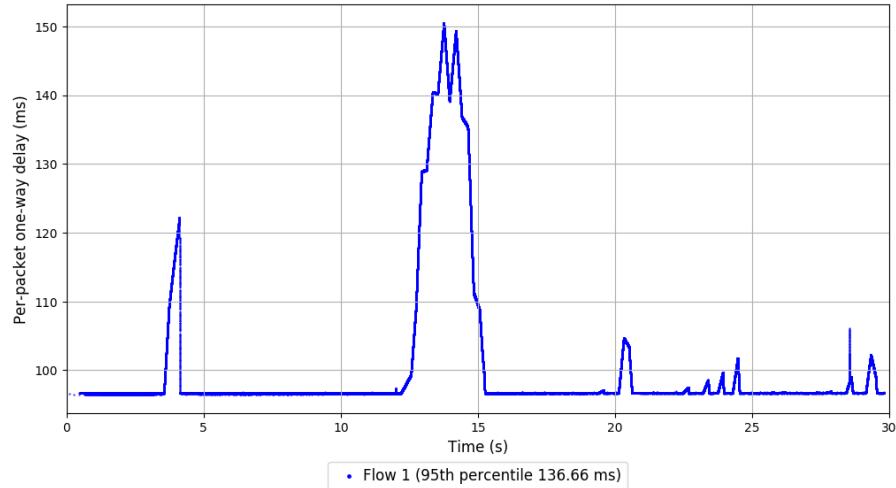
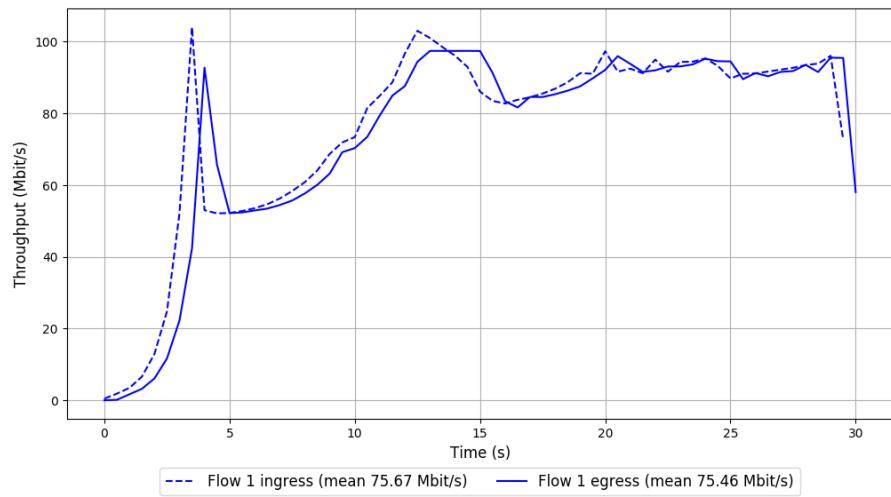


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-27 08:31:59
End at: 2019-03-27 08:32:29
Local clock offset: -5.35 ms
Remote clock offset: 17.374 ms

# Below is generated by plot.py at 2019-03-27 08:48:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.46 Mbit/s
95th percentile per-packet one-way delay: 136.655 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 75.46 Mbit/s
95th percentile per-packet one-way delay: 136.655 ms
Loss rate: 0.88%
```

Run 5: Report of PCC-Vivace — Data Link

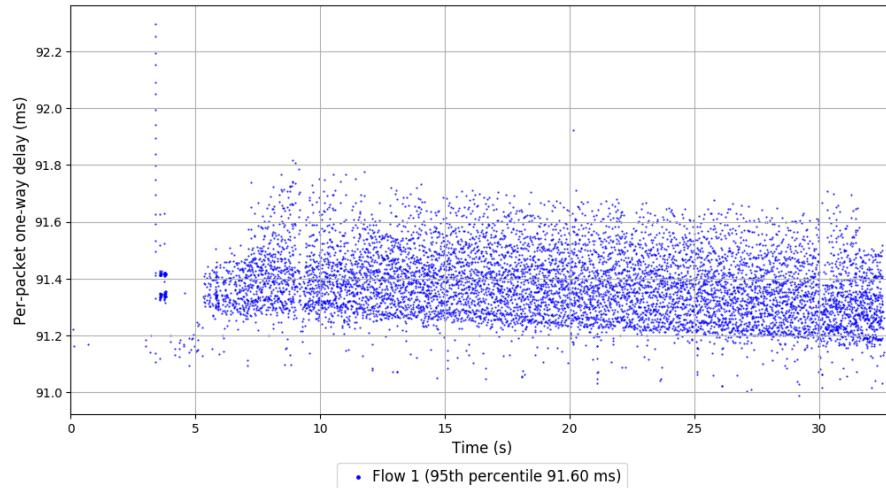
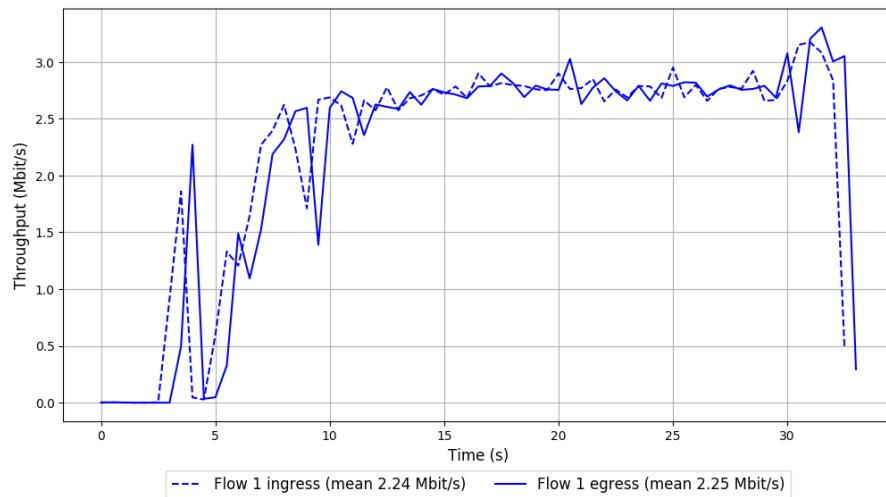


```
Run 1: Statistics of WebRTC media

Start at: 2019-03-27 06:48:56
End at: 2019-03-27 06:49:26
Local clock offset: 2.815 ms
Remote clock offset: 4.151 ms

# Below is generated by plot.py at 2019-03-27 08:48:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 91.597 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 91.597 ms
Loss rate: 0.33%
```

Run 1: Report of WebRTC media — Data Link

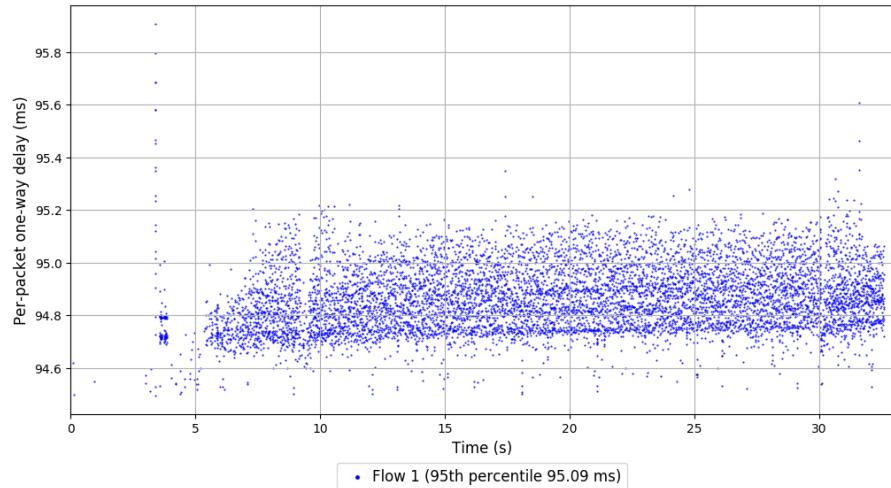
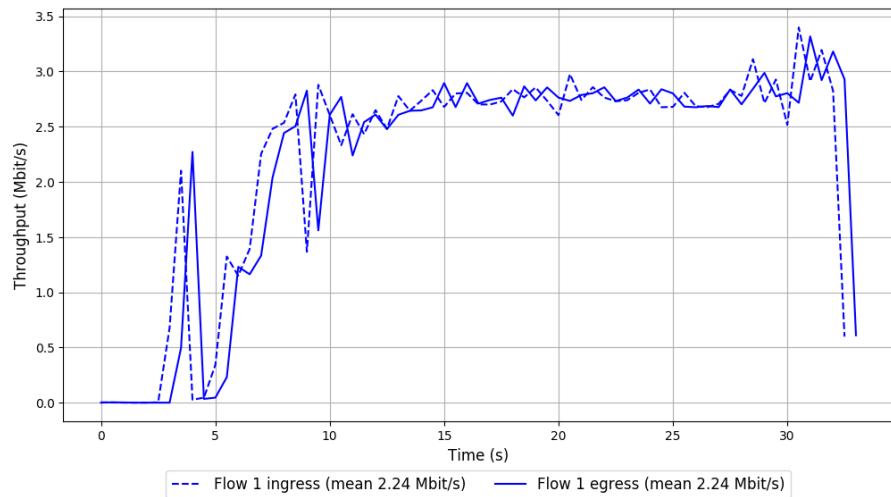


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-27 07:13:49
End at: 2019-03-27 07:14:19
Local clock offset: 2.67 ms
Remote clock offset: 4.431 ms

# Below is generated by plot.py at 2019-03-27 08:48:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 95.087 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 95.087 ms
Loss rate: 0.32%
```

Run 2: Report of WebRTC media — Data Link

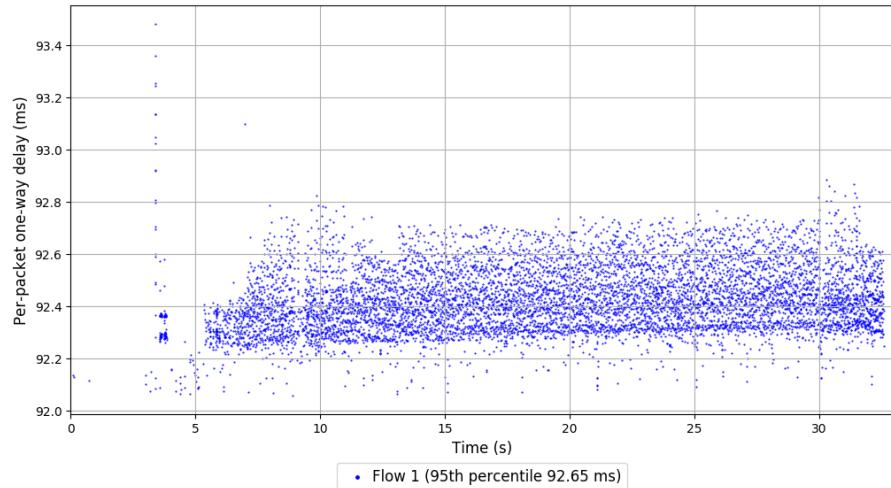
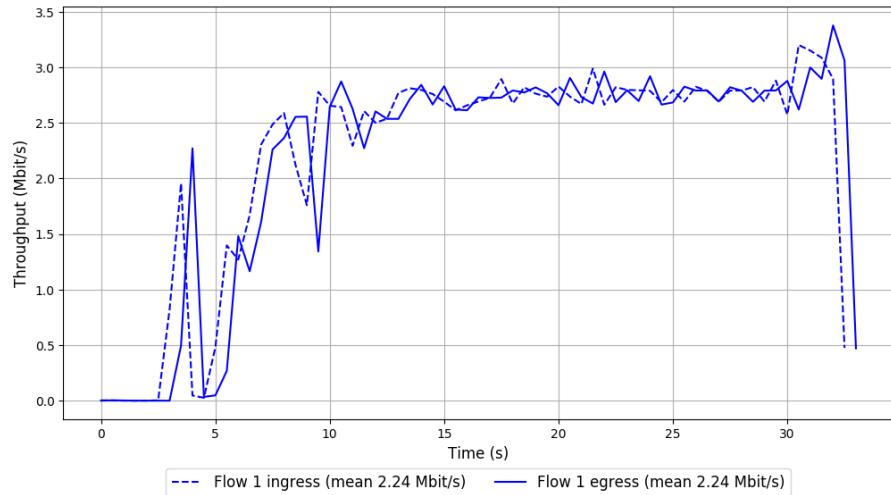


```
Run 3: Statistics of WebRTC media

Start at: 2019-03-27 07:38:44
End at: 2019-03-27 07:39:14
Local clock offset: -4.782 ms
Remote clock offset: 0.407 ms

# Below is generated by plot.py at 2019-03-27 08:48:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 92.650 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 92.650 ms
Loss rate: 0.31%
```

Run 3: Report of WebRTC media — Data Link

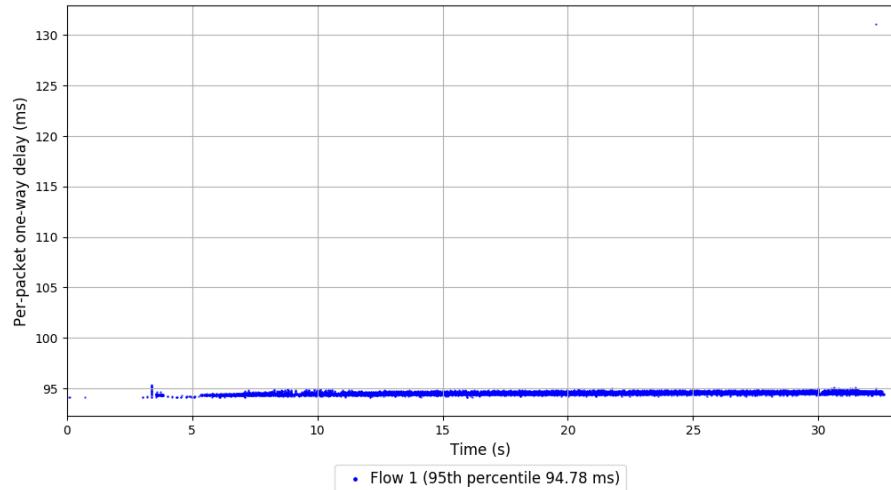
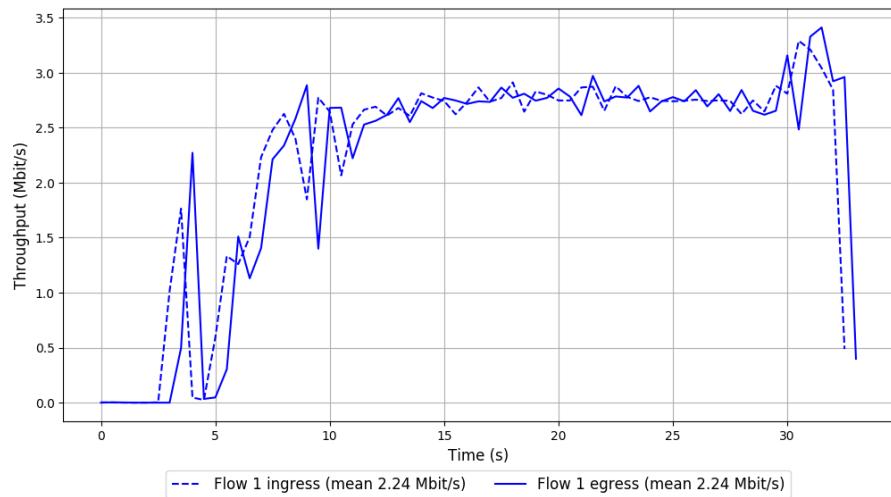


Run 4: Statistics of WebRTC media

```
Start at: 2019-03-27 08:03:40
End at: 2019-03-27 08:04:10
Local clock offset: -4.457 ms
Remote clock offset: 7.654 ms

# Below is generated by plot.py at 2019-03-27 08:48:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 94.776 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 94.776 ms
Loss rate: 0.31%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-03-27 08:28:35
End at: 2019-03-27 08:29:05
Local clock offset: -5.22 ms
Remote clock offset: 18.274 ms

# Below is generated by plot.py at 2019-03-27 08:48:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 89.284 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 89.284 ms
Loss rate: 0.30%
```

Run 5: Report of WebRTC media — Data Link

