

## Pantheon Report

Generated at 2019-02-05 15:04:02 (UTC).  
Data path: Brazil on p4p1 (*remote*) → AWS Brazil 1 on ens5 (*local*).  
Repeated the test of 21 congestion control schemes 5 times.  
Each test lasted for 30 seconds running 1 flow.  
NTP offsets were measured against gps.ntp.br and have been applied to correct the timestamps in logs.

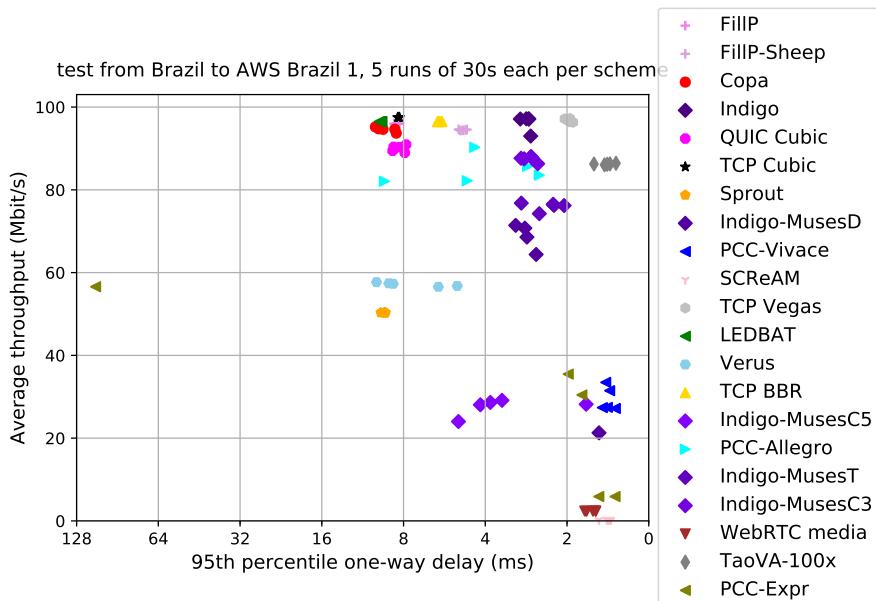
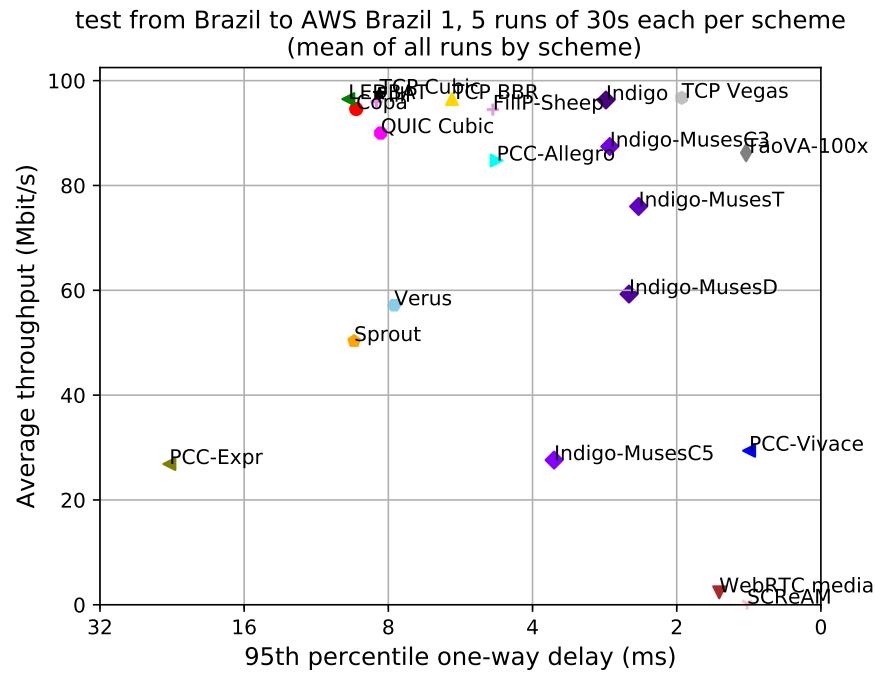
System info:

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

Git summary:

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

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851



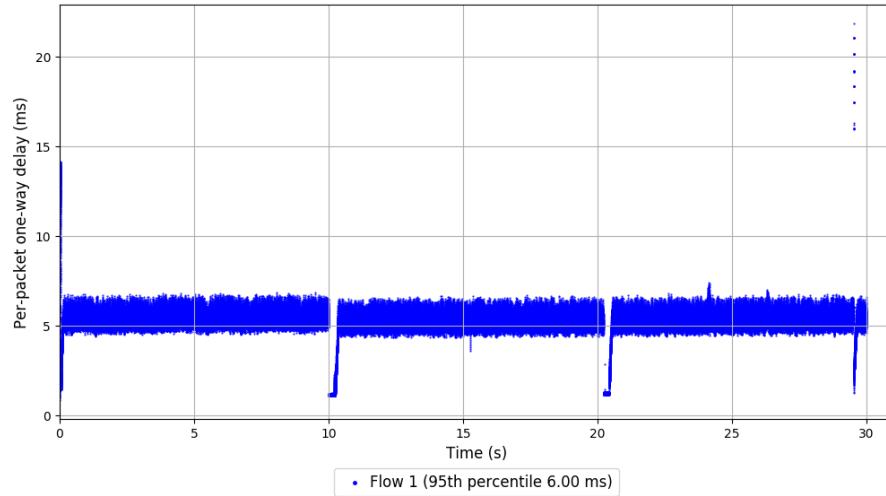
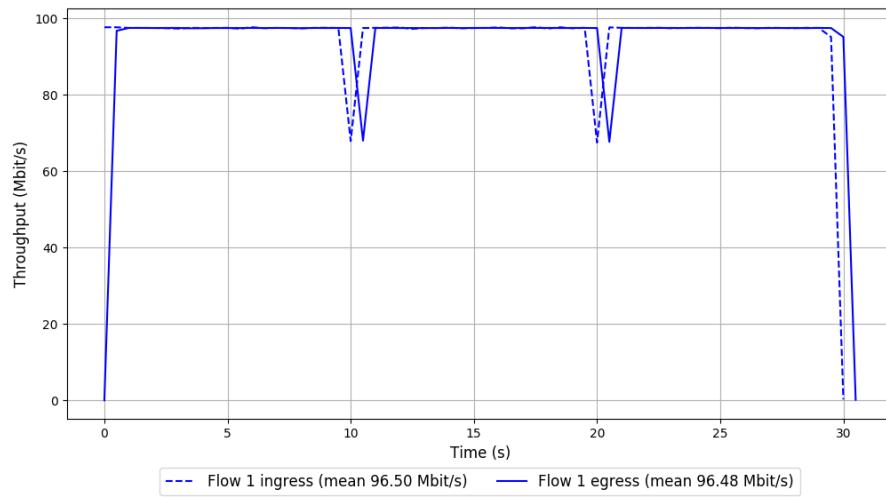
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.50	5.89	0.02
Copa	5	94.58	9.34	0.06
TCP Cubic	5	97.51	8.35	0.06
FillP	5	95.98	8.47	0.01
FillP-Sheep	5	94.47	4.84	0.01
Indigo	5	96.31	2.81	0.01
Indigo-MusesC3	5	87.43	2.76	0.01
Indigo-MusesC5	5	27.61	3.61	0.01
Indigo-MusesD	5	59.28	2.52	0.01
Indigo-MusesT	5	76.00	2.40	0.01
LEDBAT	5	96.48	9.70	0.09
PCC-Allegro	5	84.76	4.75	0.01
PCC-Expr	5	26.86	22.93	0.05
QUIC Cubic	5	90.00	8.30	0.01
SCReAM	5	0.22	1.02	0.03
Sprout	5	50.32	9.43	0.02
TaoVA-100x	5	86.23	1.04	0.01
TCP Vegas	5	96.72	1.93	0.01
Verus	5	57.15	7.78	0.02
PCC-Vivace	5	29.39	1.00	0.01
WebRTC media	5	2.37	1.41	0.02

Run 1: Statistics of TCP BBR

```
Start at: 2019-02-05 12:54:42
End at: 2019-02-05 12:55:12
Local clock offset: -2.569 ms
Remote clock offset: -0.586 ms

# Below is generated by plot.py at 2019-02-05 14:52:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 6.000 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 6.000 ms
Loss rate: 0.02%
```

## Run 1: Report of TCP BBR — Data Link

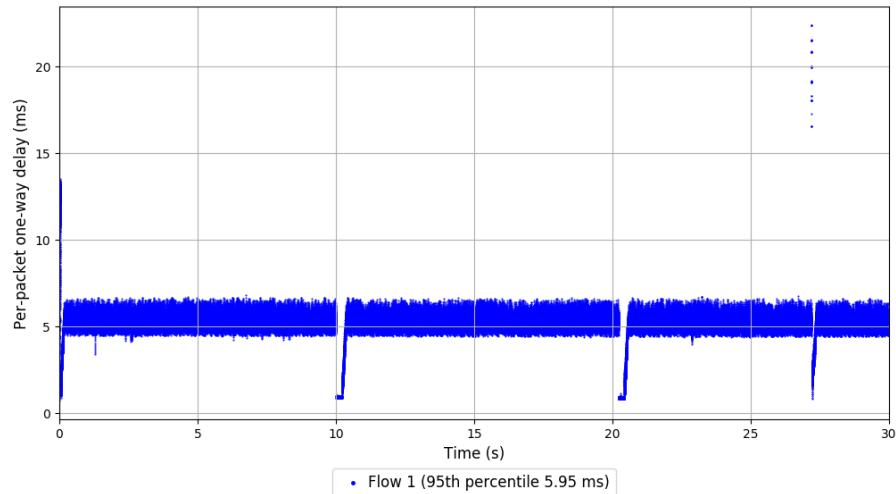
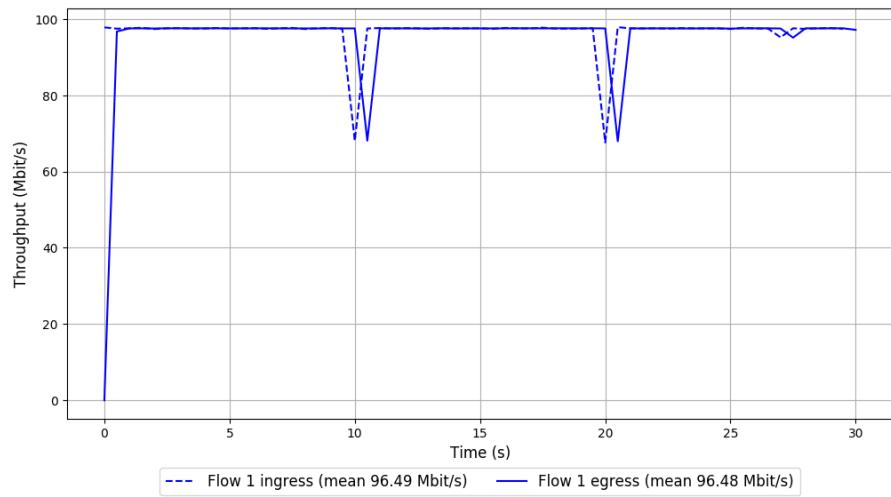


Run 2: Statistics of TCP BBR

```
Start at: 2019-02-05 13:18:16
End at: 2019-02-05 13:18:46
Local clock offset: -7.331 ms
Remote clock offset: -0.332 ms

# Below is generated by plot.py at 2019-02-05 14:52:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 5.946 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 5.946 ms
Loss rate: 0.02%
```

## Run 2: Report of TCP BBR — Data Link

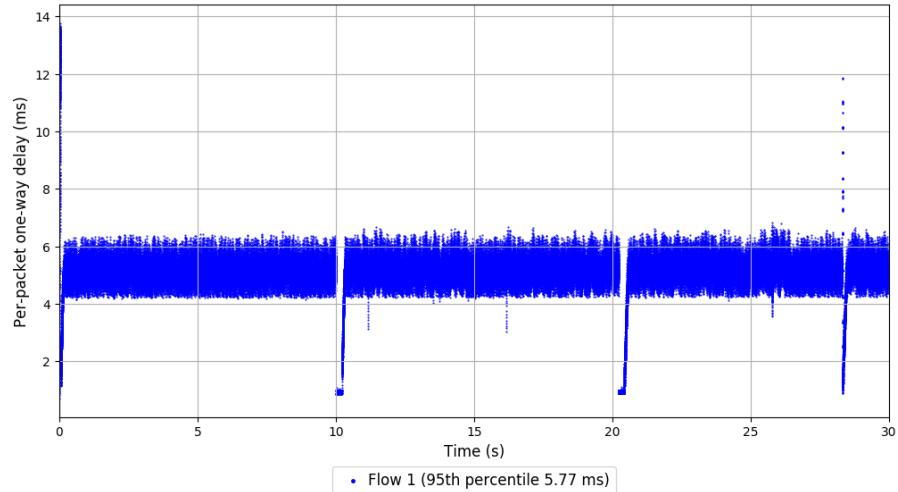
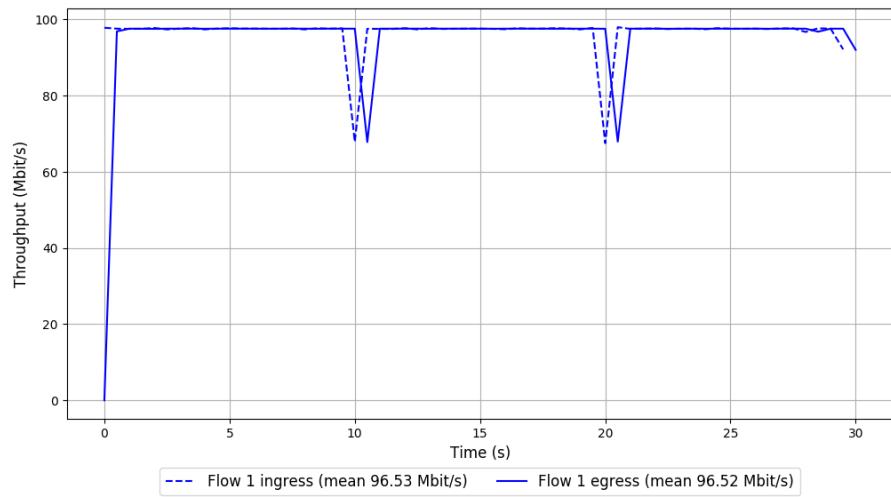


Run 3: Statistics of TCP BBR

```
Start at: 2019-02-05 13:41:54
End at: 2019-02-05 13:42:24
Local clock offset: -6.826 ms
Remote clock offset: 0.176 ms

# Below is generated by plot.py at 2019-02-05 14:52:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 5.771 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 5.771 ms
Loss rate: 0.02%
```

### Run 3: Report of TCP BBR — Data Link

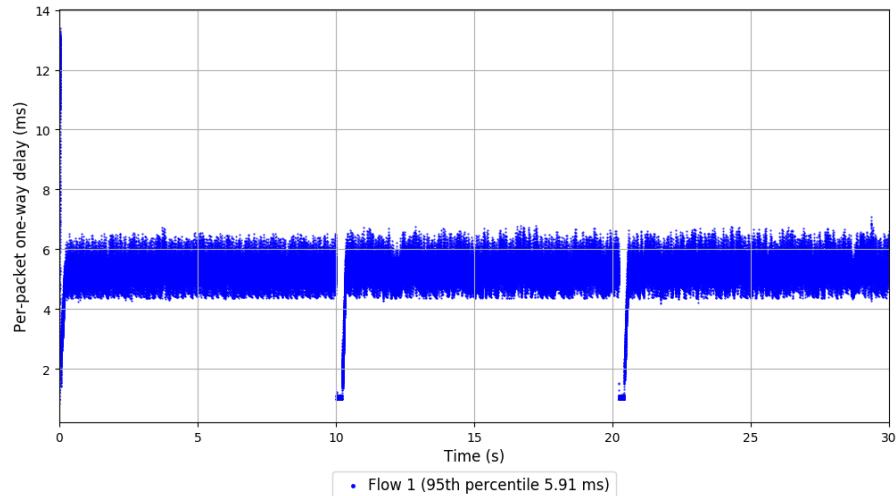
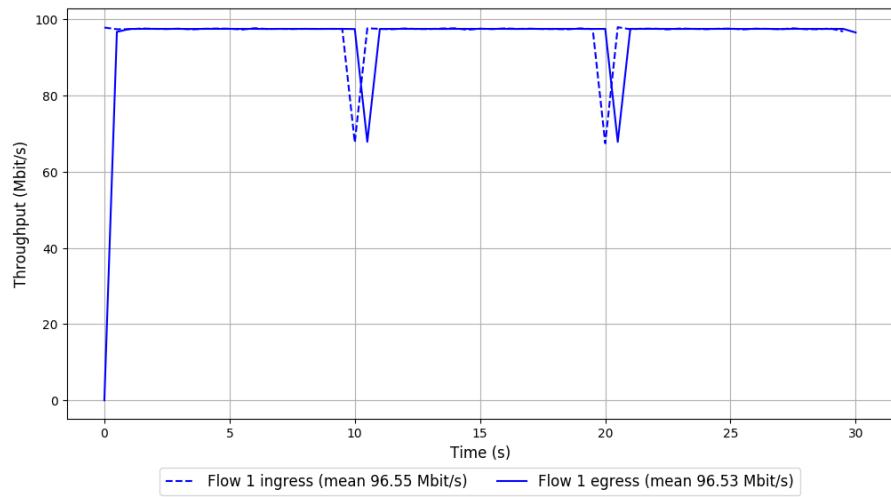


Run 4: Statistics of TCP BBR

```
Start at: 2019-02-05 14:05:25
End at: 2019-02-05 14:05:55
Local clock offset: -5.232 ms
Remote clock offset: 0.268 ms

# Below is generated by plot.py at 2019-02-05 14:52:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 5.911 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 5.911 ms
Loss rate: 0.02%
```

### Run 4: Report of TCP BBR — Data Link

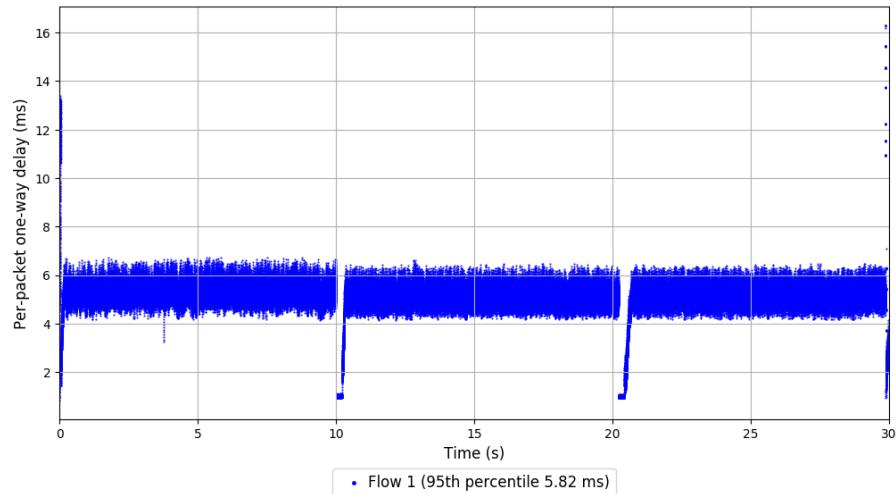
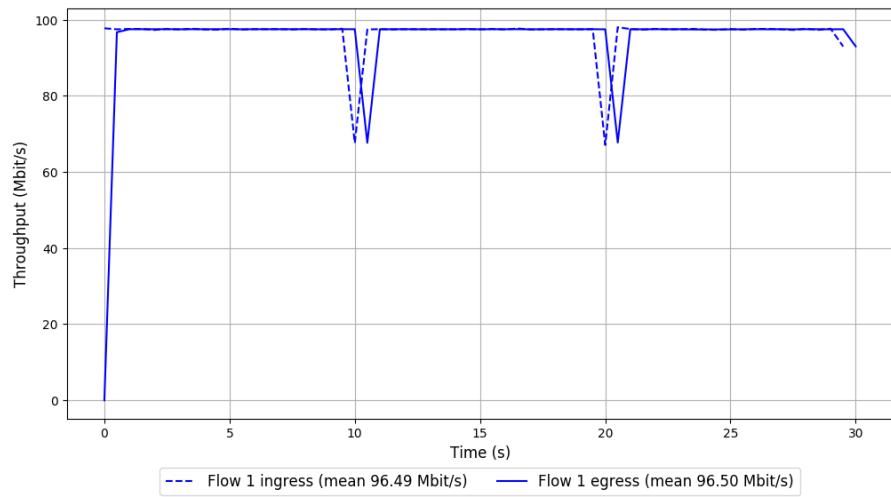


Run 5: Statistics of TCP BBR

```
Start at: 2019-02-05 14:29:01
End at: 2019-02-05 14:29:31
Local clock offset: -4.393 ms
Remote clock offset: 0.474 ms

# Below is generated by plot.py at 2019-02-05 14:52:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 5.822 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 5.822 ms
Loss rate: 0.02%
```

### Run 5: Report of TCP BBR — Data Link

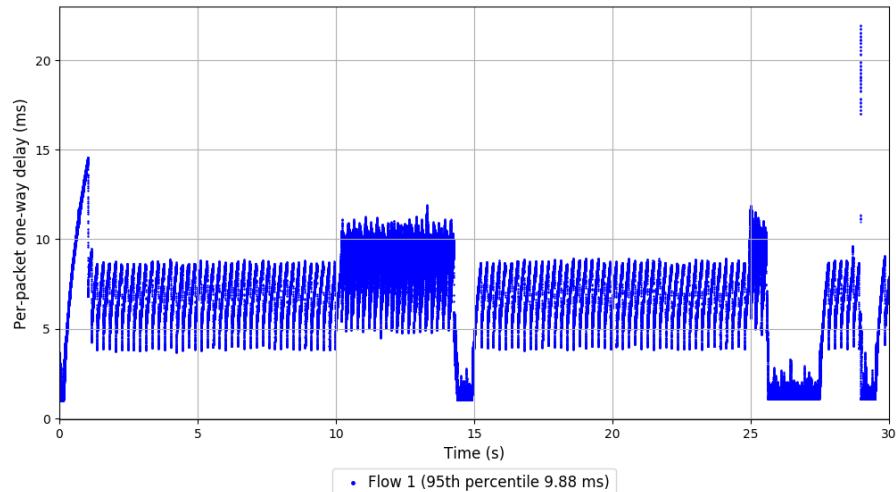
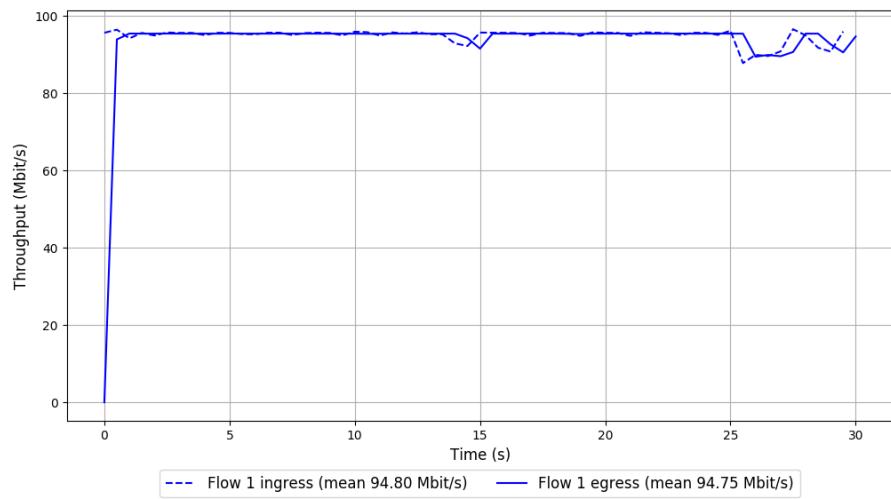


Run 1: Statistics of Copa

```
Start at: 2019-02-05 13:12:36
End at: 2019-02-05 13:13:07
Local clock offset: -7.37 ms
Remote clock offset: -0.477 ms

# Below is generated by plot.py at 2019-02-05 14:53:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.75 Mbit/s
95th percentile per-packet one-way delay: 9.876 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 94.75 Mbit/s
95th percentile per-packet one-way delay: 9.876 ms
Loss rate: 0.07%
```

### Run 1: Report of Copa — Data Link

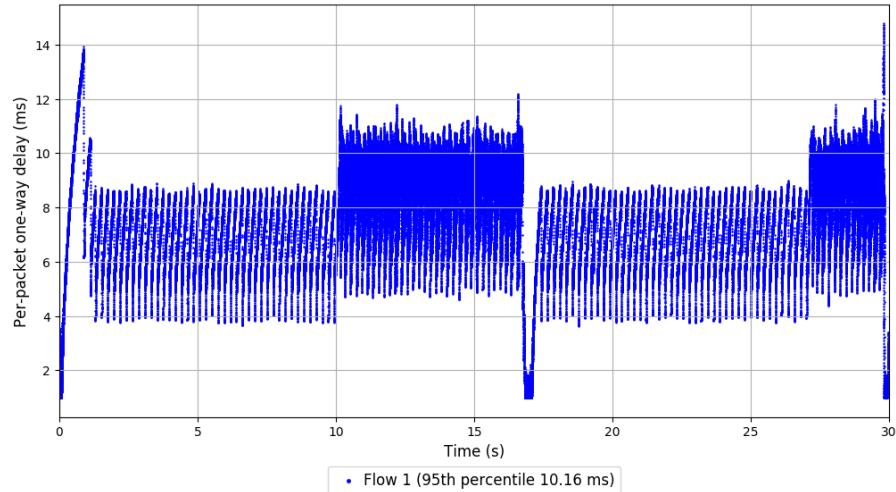
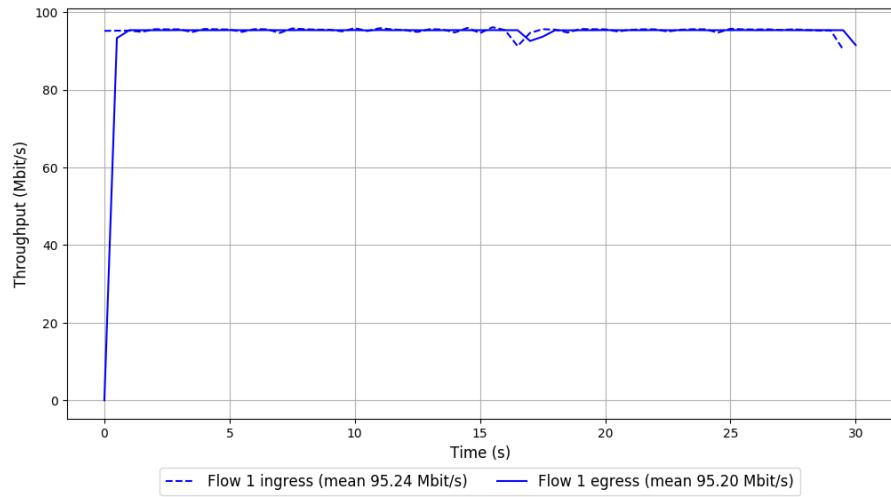


Run 2: Statistics of Copa

```
Start at: 2019-02-05 13:36:14
End at: 2019-02-05 13:36:44
Local clock offset: -6.57 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-02-05 14:53:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 10.159 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 10.159 ms
Loss rate: 0.05%
```

## Run 2: Report of Copa — Data Link

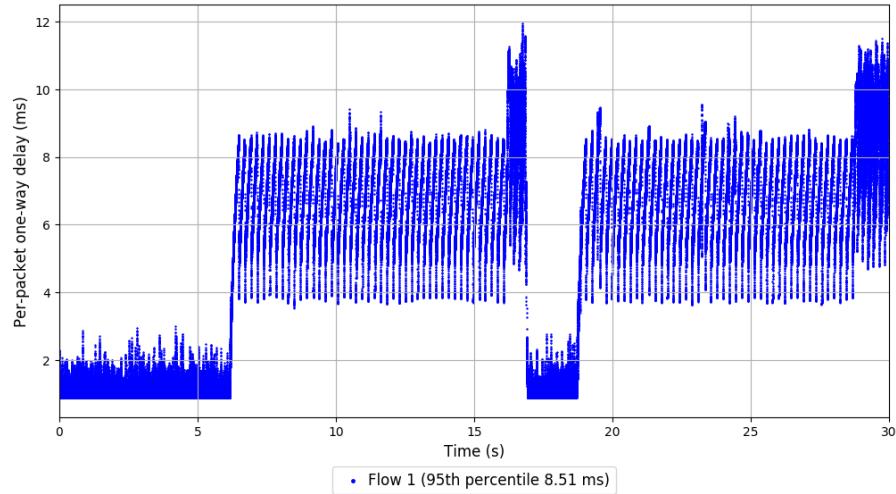
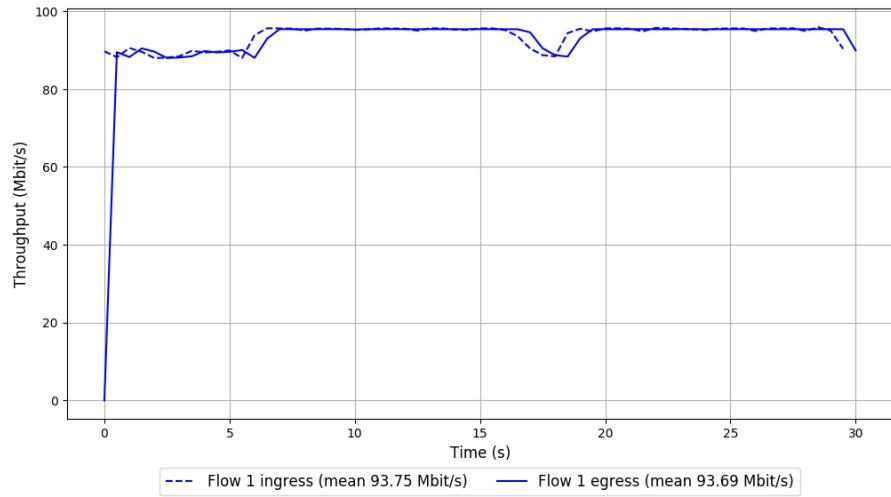


Run 3: Statistics of Copa

```
Start at: 2019-02-05 13:59:48
End at: 2019-02-05 14:00:18
Local clock offset: -5.273 ms
Remote clock offset: 0.326 ms

# Below is generated by plot.py at 2019-02-05 14:53:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 8.509 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 8.509 ms
Loss rate: 0.06%
```

### Run 3: Report of Copa — Data Link

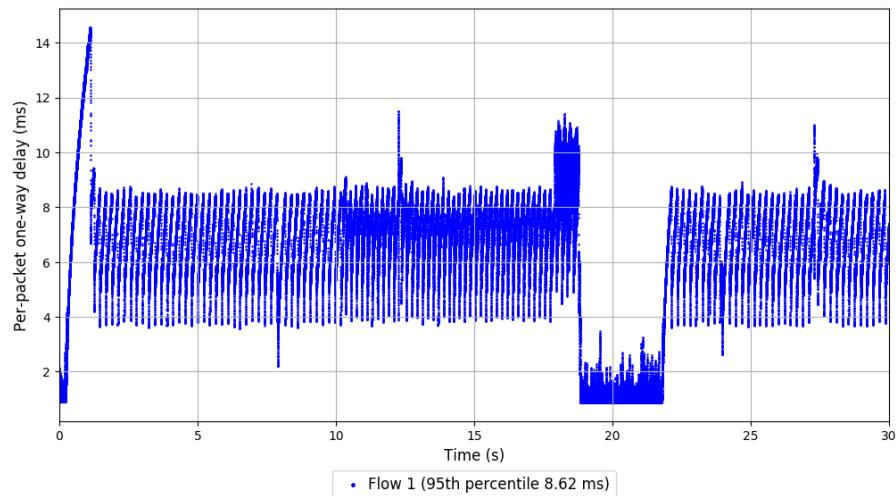
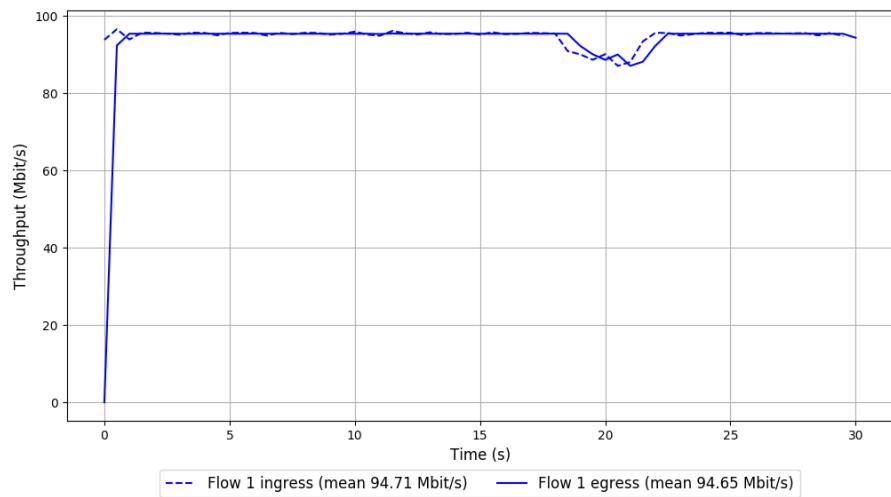


Run 4: Statistics of Copa

```
Start at: 2019-02-05 14:23:22
End at: 2019-02-05 14:23:52
Local clock offset: -4.602 ms
Remote clock offset: 0.538 ms

# Below is generated by plot.py at 2019-02-05 14:54:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.65 Mbit/s
95th percentile per-packet one-way delay: 8.619 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 94.65 Mbit/s
95th percentile per-packet one-way delay: 8.619 ms
Loss rate: 0.07%
```

### Run 4: Report of Copa — Data Link

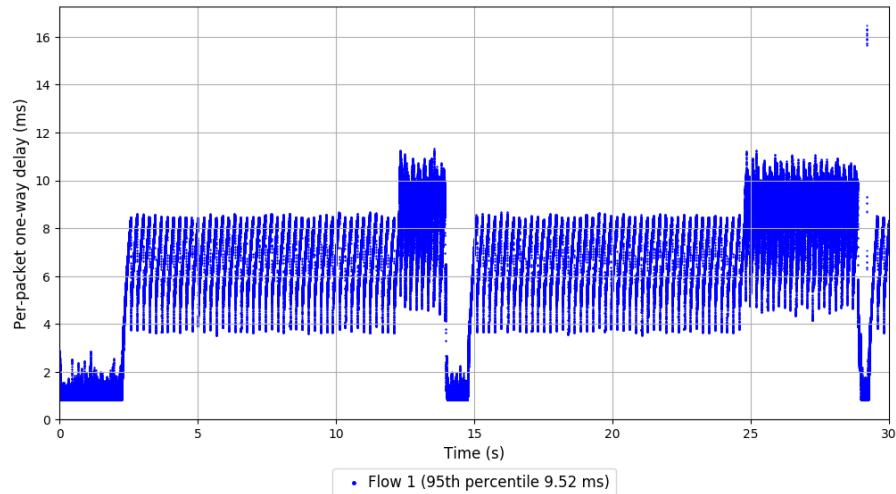
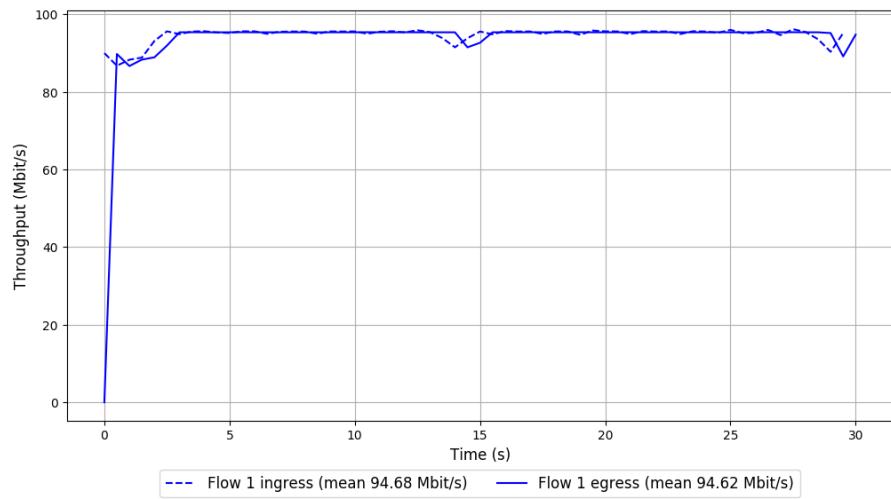


Run 5: Statistics of Copa

```
Start at: 2019-02-05 14:46:57
End at: 2019-02-05 14:47:27
Local clock offset: -4.374 ms
Remote clock offset: 0.181 ms

# Below is generated by plot.py at 2019-02-05 14:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.62 Mbit/s
95th percentile per-packet one-way delay: 9.521 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 94.62 Mbit/s
95th percentile per-packet one-way delay: 9.521 ms
Loss rate: 0.07%
```

### Run 5: Report of Copa — Data Link

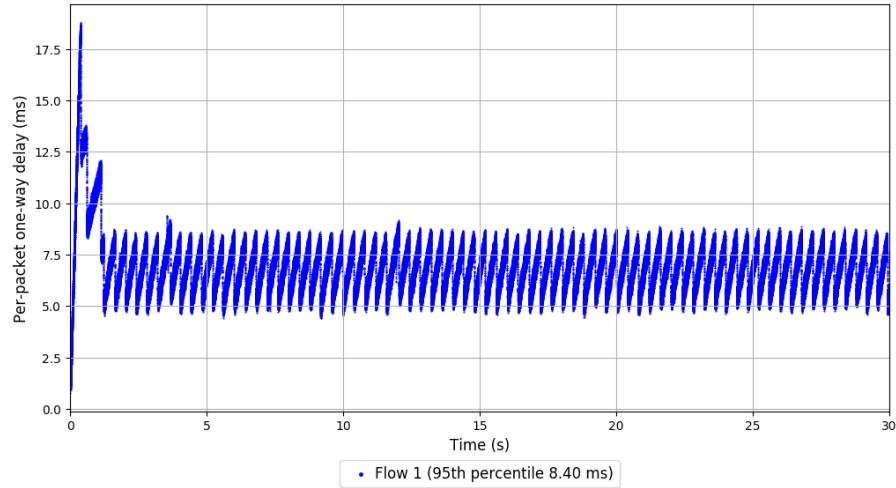
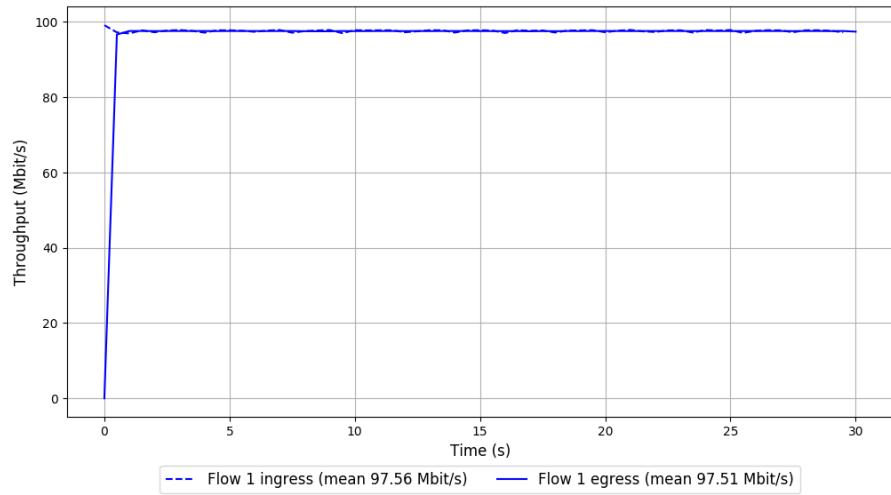


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-02-05 13:11:28
End at: 2019-02-05 13:11:58
Local clock offset: -7.209 ms
Remote clock offset: -0.425 ms

# Below is generated by plot.py at 2019-02-05 14:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 8.402 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 8.402 ms
Loss rate: 0.05%
```

### Run 1: Report of TCP Cubic — Data Link

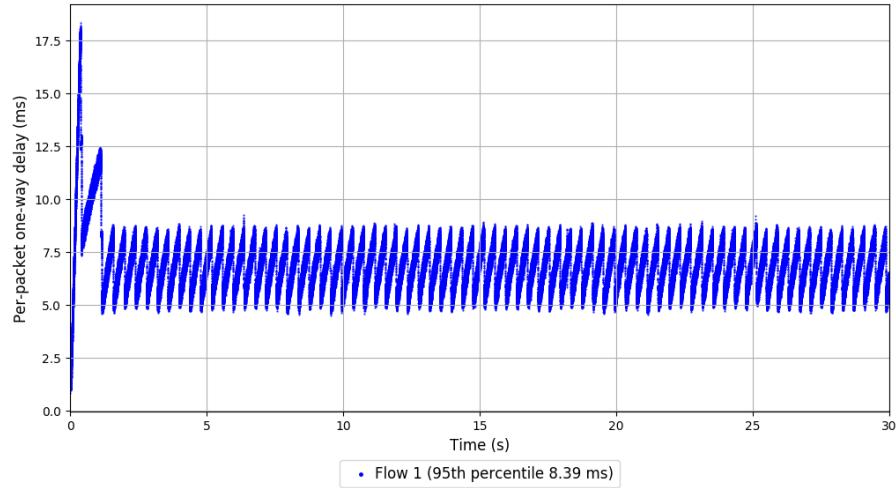
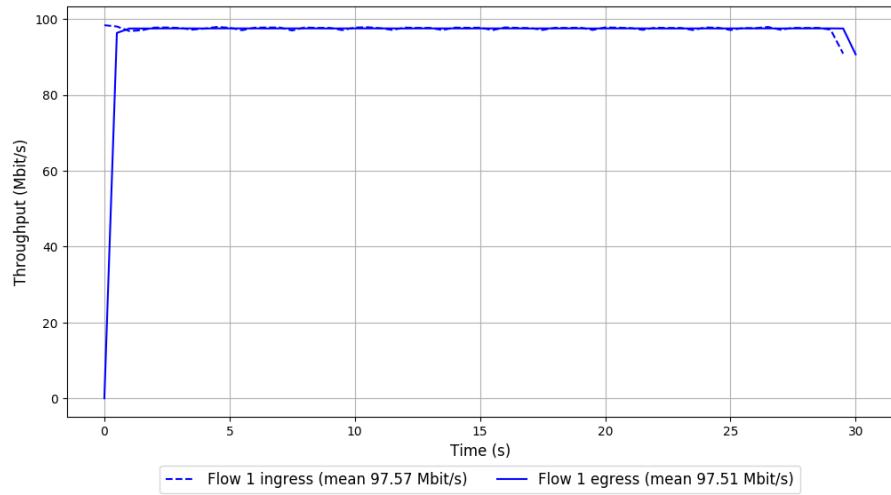


Run 2: Statistics of TCP Cubic

```
Start at: 2019-02-05 13:35:06
End at: 2019-02-05 13:35:36
Local clock offset: -6.54 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-02-05 14:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 8.389 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 8.389 ms
Loss rate: 0.06%
```

## Run 2: Report of TCP Cubic — Data Link

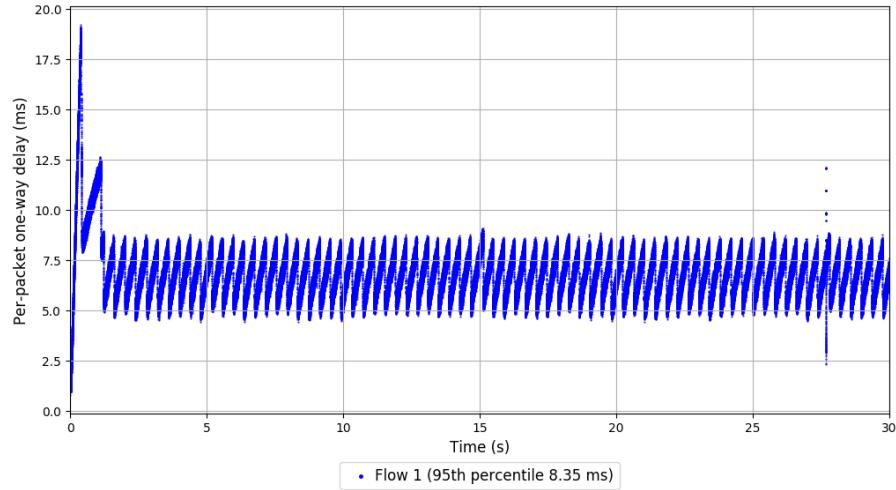
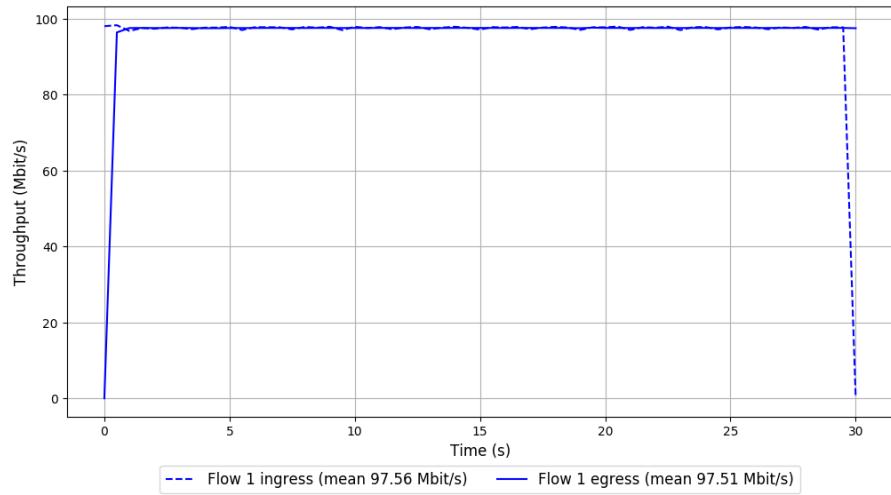


Run 3: Statistics of TCP Cubic

```
Start at: 2019-02-05 13:58:40
End at: 2019-02-05 13:59:10
Local clock offset: -5.293 ms
Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2019-02-05 14:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 8.353 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 8.353 ms
Loss rate: 0.06%
```

### Run 3: Report of TCP Cubic — Data Link

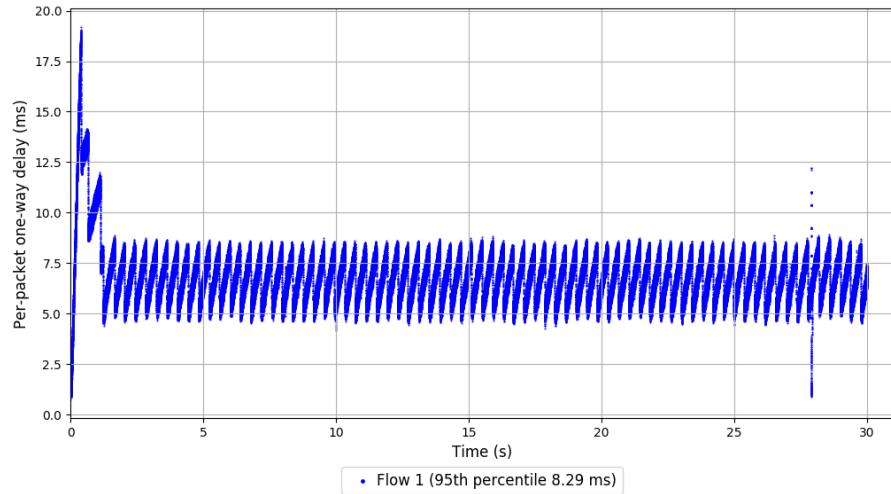
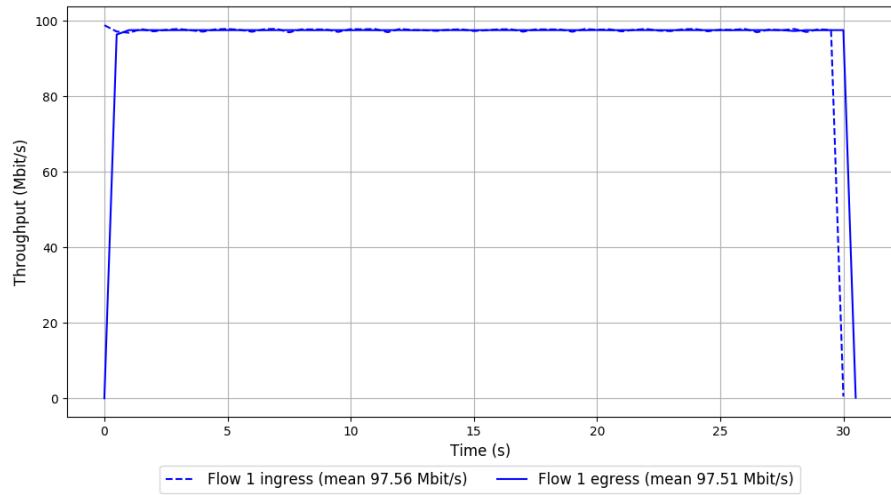


Run 4: Statistics of TCP Cubic

```
Start at: 2019-02-05 14:22:14
End at: 2019-02-05 14:22:44
Local clock offset: -4.675 ms
Remote clock offset: 0.515 ms

# Below is generated by plot.py at 2019-02-05 14:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 8.290 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 8.290 ms
Loss rate: 0.06%
```

#### Run 4: Report of TCP Cubic — Data Link

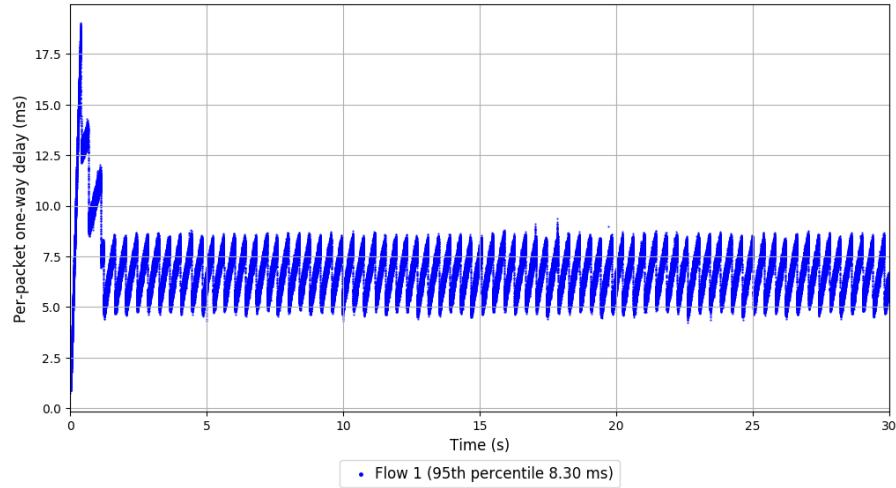
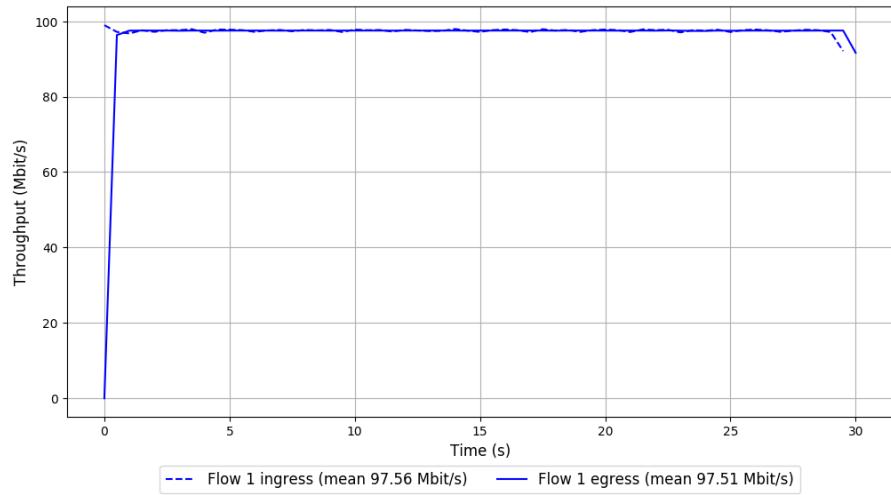


Run 5: Statistics of TCP Cubic

```
Start at: 2019-02-05 14:45:49
End at: 2019-02-05 14:46:19
Local clock offset: -4.278 ms
Remote clock offset: 0.217 ms

# Below is generated by plot.py at 2019-02-05 14:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 8.297 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 8.297 ms
Loss rate: 0.06%
```

### Run 5: Report of TCP Cubic — Data Link

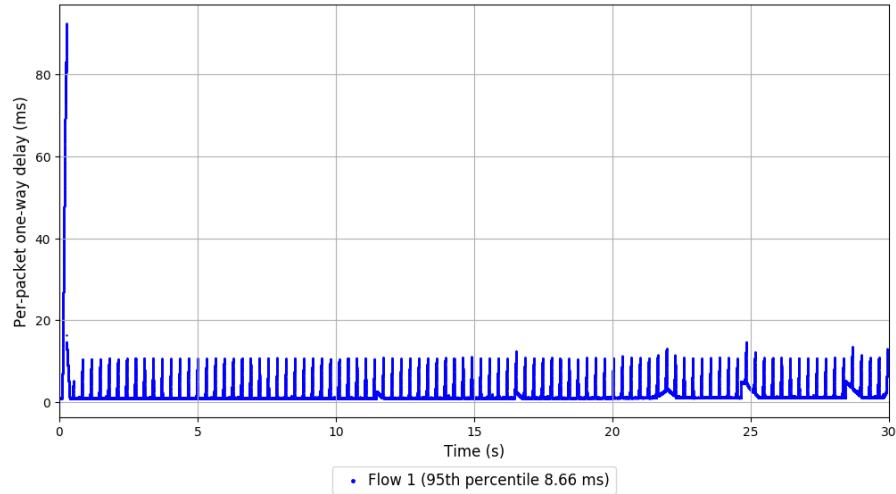
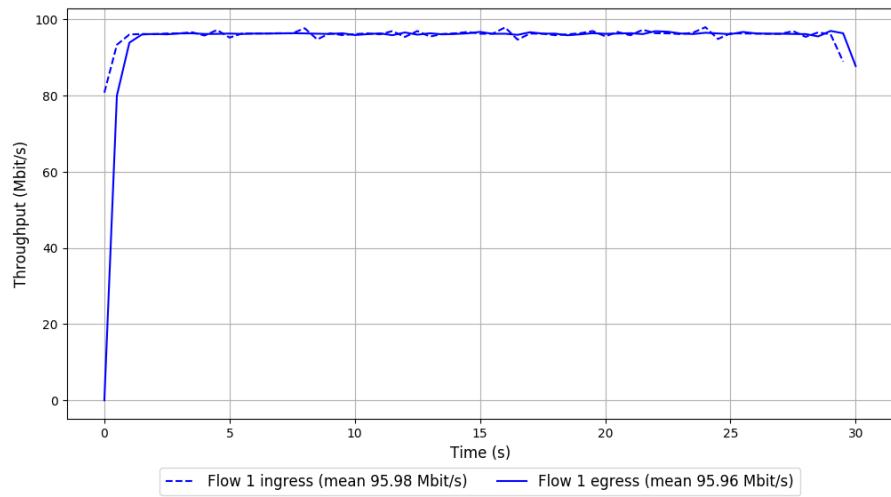


```
Run 1: Statistics of FillP
```

```
Start at: 2019-02-05 13:00:22
End at: 2019-02-05 13:00:52
Local clock offset: -4.691 ms
Remote clock offset: -0.578 ms

# Below is generated by plot.py at 2019-02-05 14:54:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 8.665 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 95.96 Mbit/s
95th percentile per-packet one-way delay: 8.665 ms
Loss rate: 0.02%
```

### Run 1: Report of FillP — Data Link

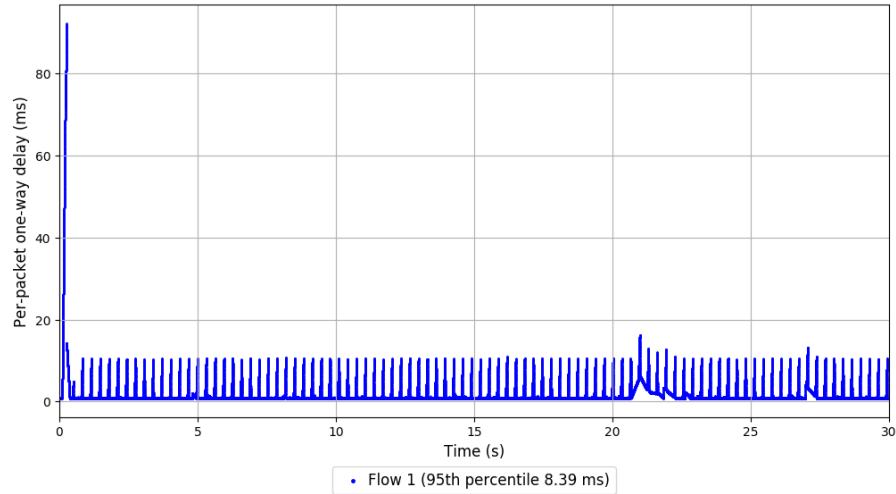
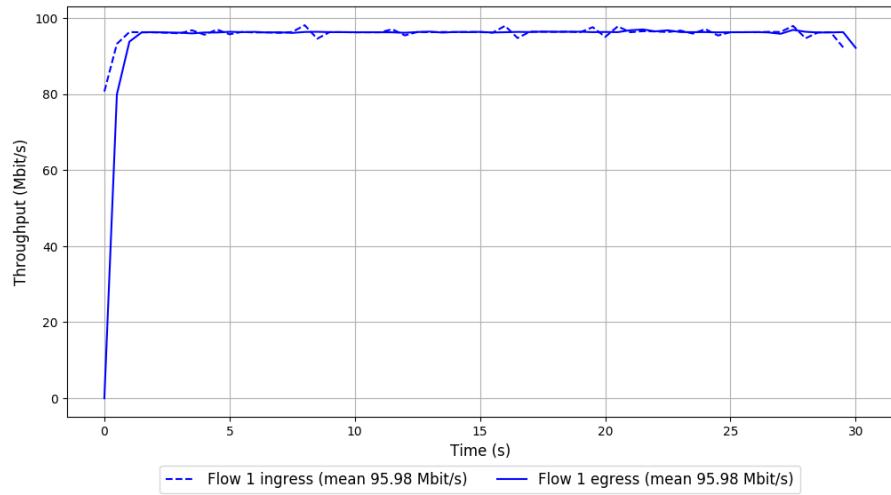


```
Run 2: Statistics of FillP
```

```
Start at: 2019-02-05 13:23:56
End at: 2019-02-05 13:24:26
Local clock offset: -6.672 ms
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2019-02-05 14:55:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 8.395 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 8.395 ms
Loss rate: 0.01%
```

## Run 2: Report of FillP — Data Link

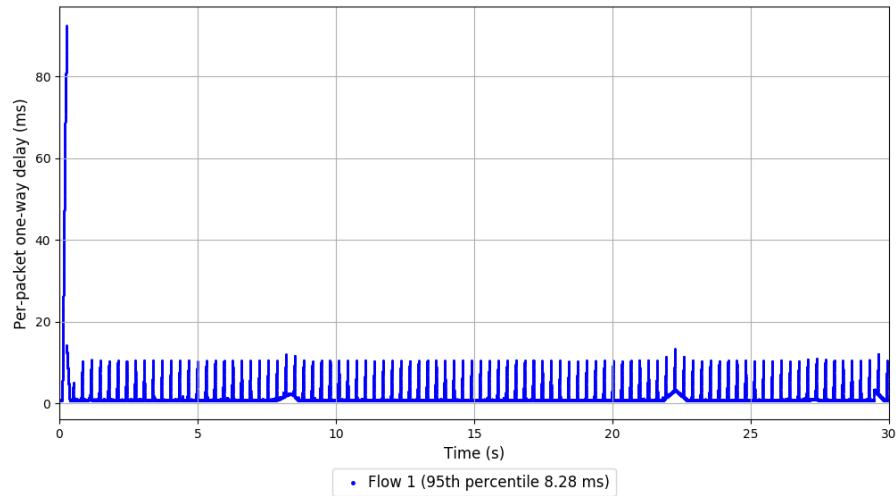
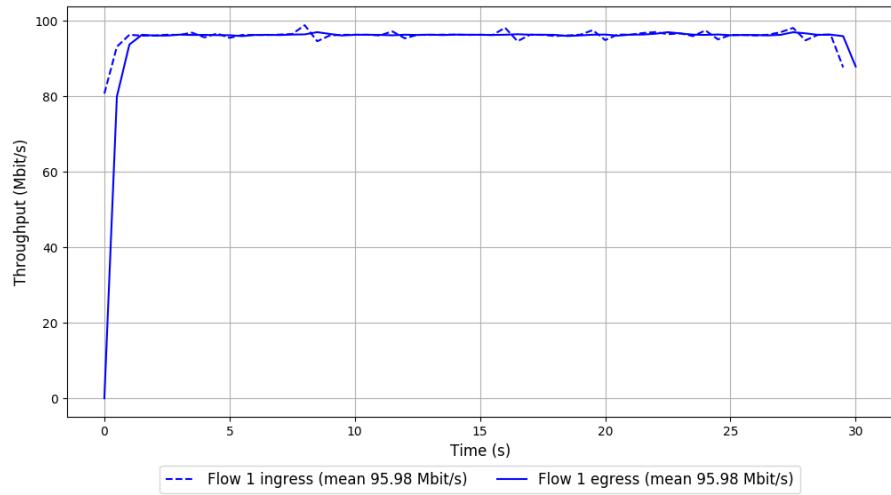


Run 3: Statistics of FillP

```
Start at: 2019-02-05 13:47:34
End at: 2019-02-05 13:48:04
Local clock offset: -6.629 ms
Remote clock offset: 0.119 ms

# Below is generated by plot.py at 2019-02-05 14:55:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 8.282 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 8.282 ms
Loss rate: 0.01%
```

### Run 3: Report of FillP — Data Link

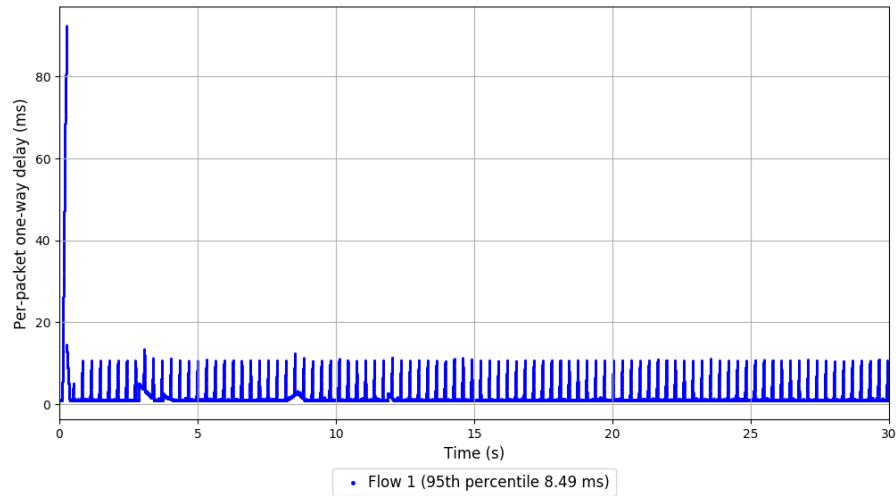
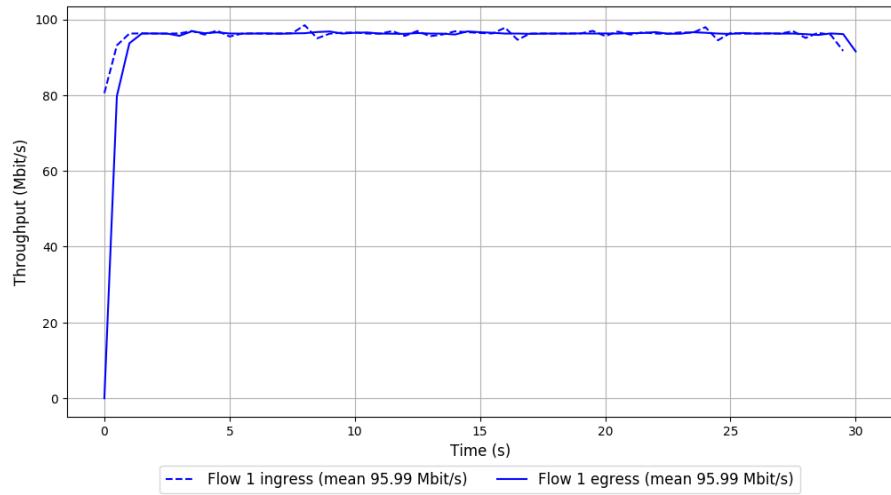


```
Run 4: Statistics of FillP
```

```
Start at: 2019-02-05 14:11:05
End at: 2019-02-05 14:11:35
Local clock offset: -5.206 ms
Remote clock offset: 0.363 ms

# Below is generated by plot.py at 2019-02-05 14:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 8.494 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 8.494 ms
Loss rate: 0.01%
```

### Run 4: Report of FillP — Data Link

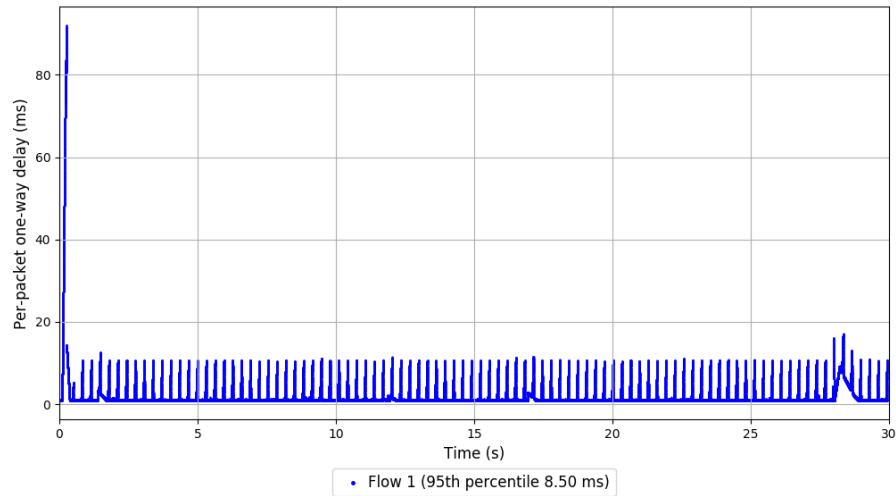
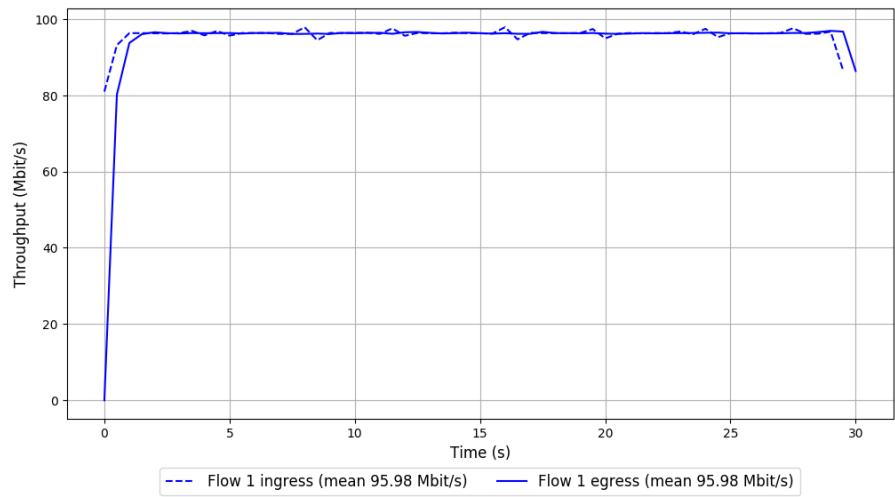


```
Run 5: Statistics of FillP
```

```
Start at: 2019-02-05 14:34:41
End at: 2019-02-05 14:35:11
Local clock offset: -4.305 ms
Remote clock offset: 0.435 ms

# Below is generated by plot.py at 2019-02-05 14:56:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 8.502 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 8.502 ms
Loss rate: 0.01%
```

### Run 5: Report of FillP — Data Link

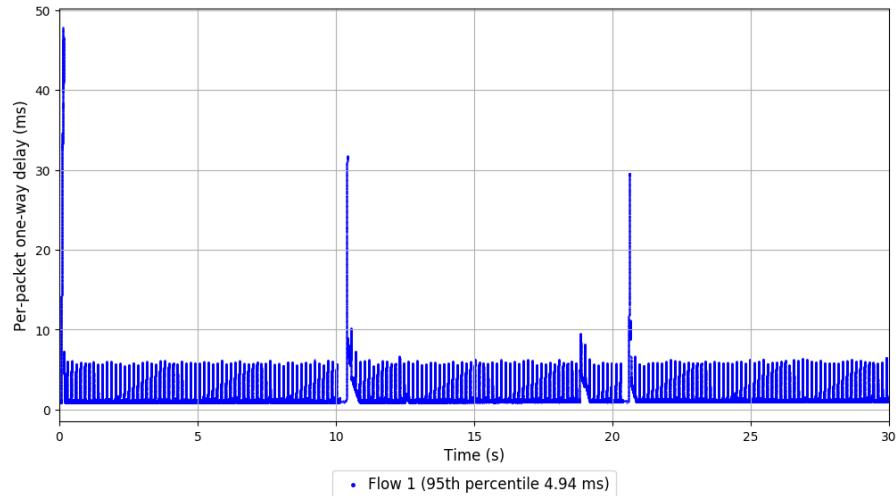
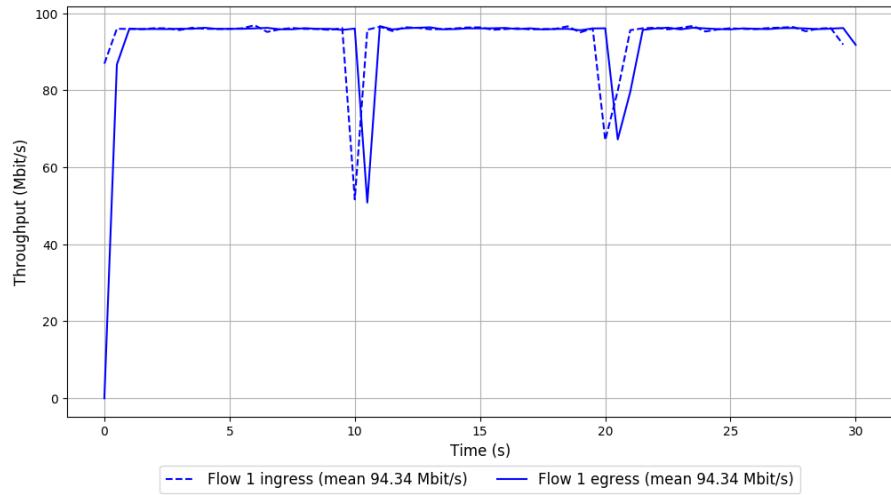


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-02-05 13:08:09
End at: 2019-02-05 13:08:39
Local clock offset: -6.588 ms
Remote clock offset: -0.529 ms

# Below is generated by plot.py at 2019-02-05 14:56:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.34 Mbit/s
95th percentile per-packet one-way delay: 4.937 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.34 Mbit/s
95th percentile per-packet one-way delay: 4.937 ms
Loss rate: 0.01%
```

### Run 1: Report of FillP-Sheep — Data Link

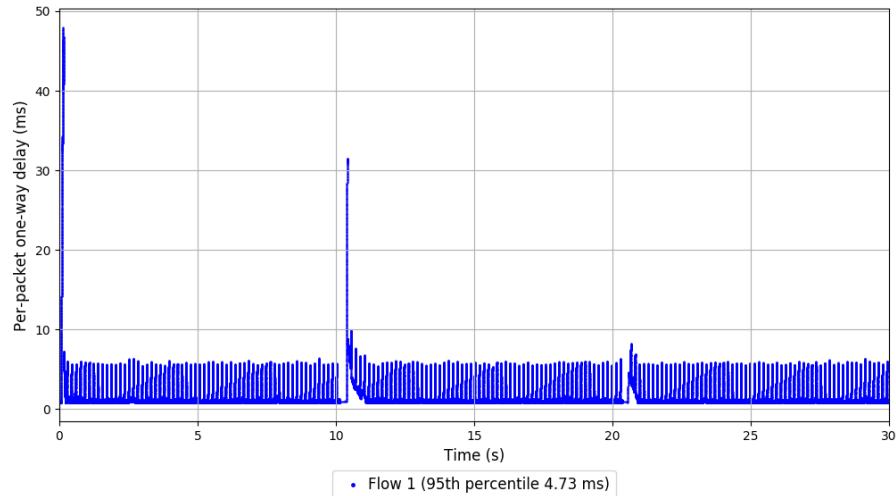
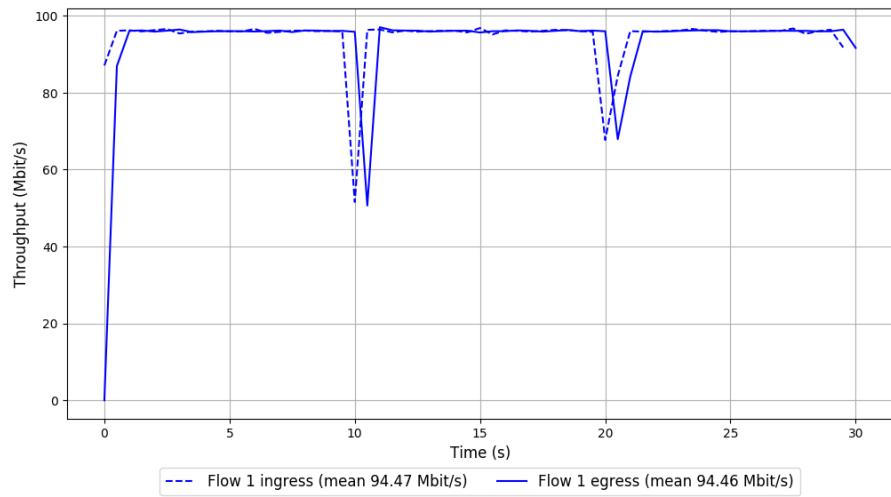


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-02-05 13:31:46
End at: 2019-02-05 13:32:16
Local clock offset: -6.473 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-02-05 14:56:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: 4.734 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: 4.734 ms
Loss rate: 0.01%
```

## Run 2: Report of FillP-Sheep — Data Link

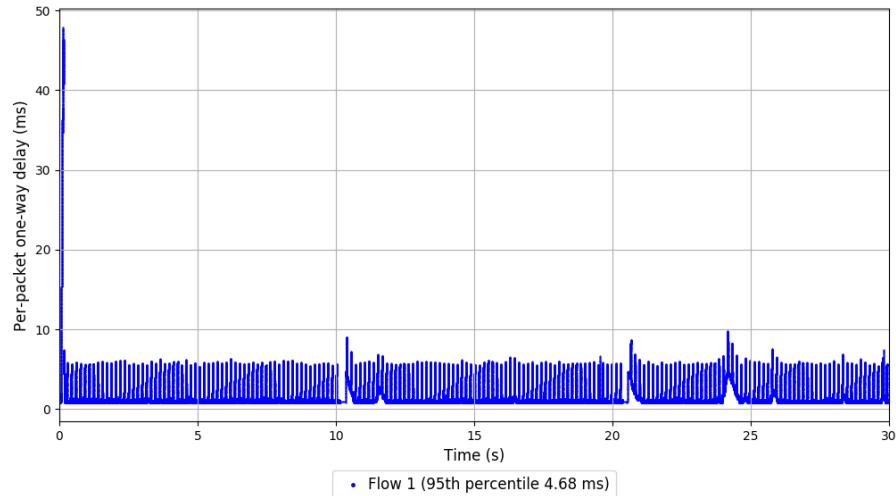
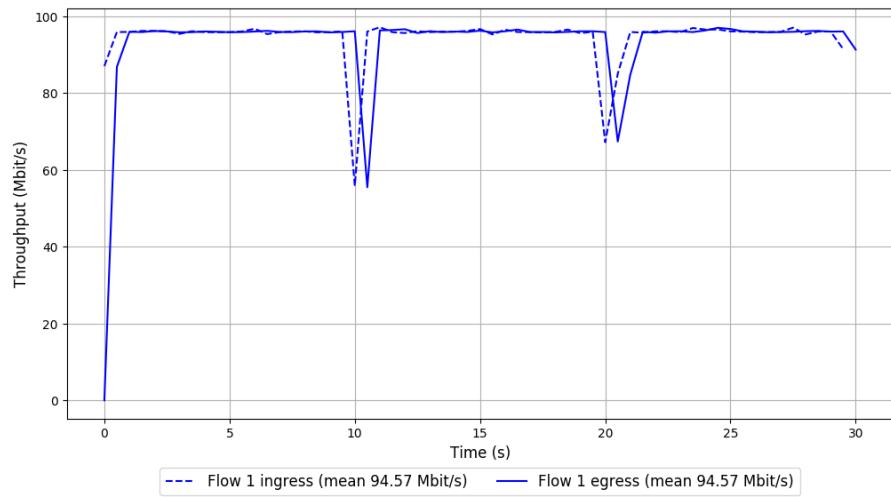


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-02-05 13:55:20
End at: 2019-02-05 13:55:50
Local clock offset: -5.513 ms
Remote clock offset: 0.253 ms

# Below is generated by plot.py at 2019-02-05 14:56:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 4.679 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 4.679 ms
Loss rate: 0.01%
```

### Run 3: Report of FillP-Sheep — Data Link

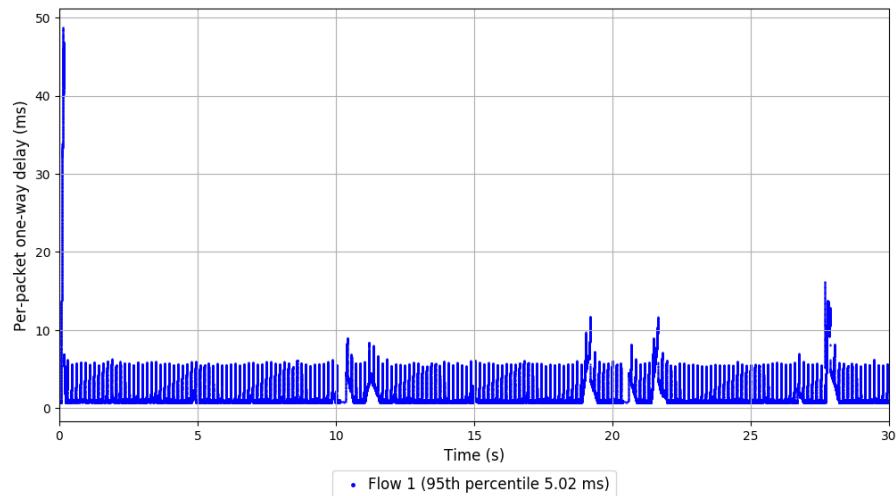
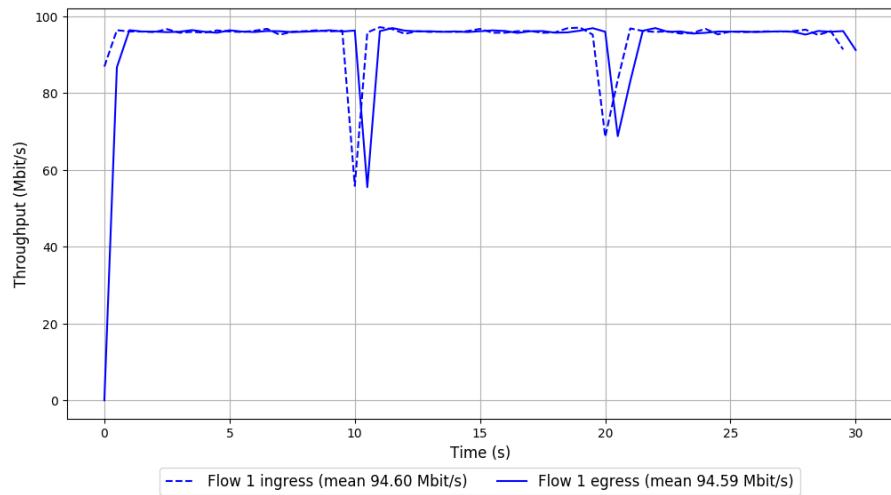


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-02-05 14:18:54
End at: 2019-02-05 14:19:24
Local clock offset: -4.972 ms
Remote clock offset: 0.503 ms

# Below is generated by plot.py at 2019-02-05 14:56:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.59 Mbit/s
95th percentile per-packet one-way delay: 5.017 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.59 Mbit/s
95th percentile per-packet one-way delay: 5.017 ms
Loss rate: 0.01%
```

### Run 4: Report of FillP-Sheep — Data Link

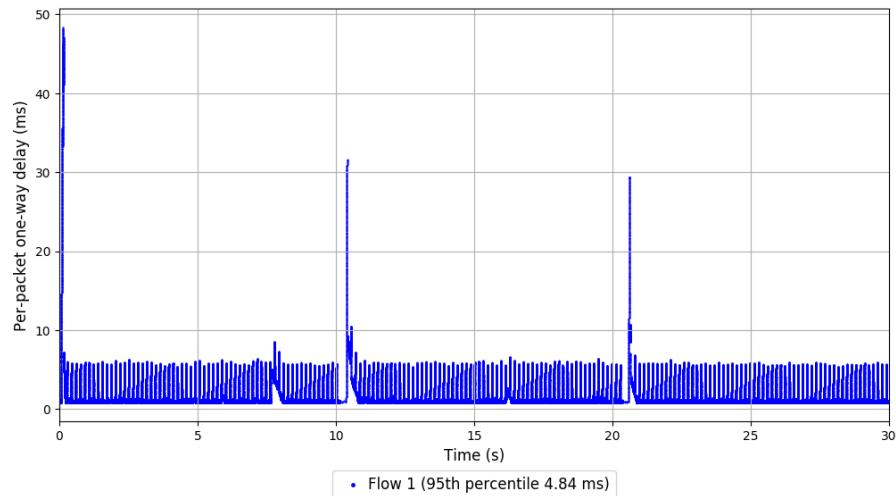
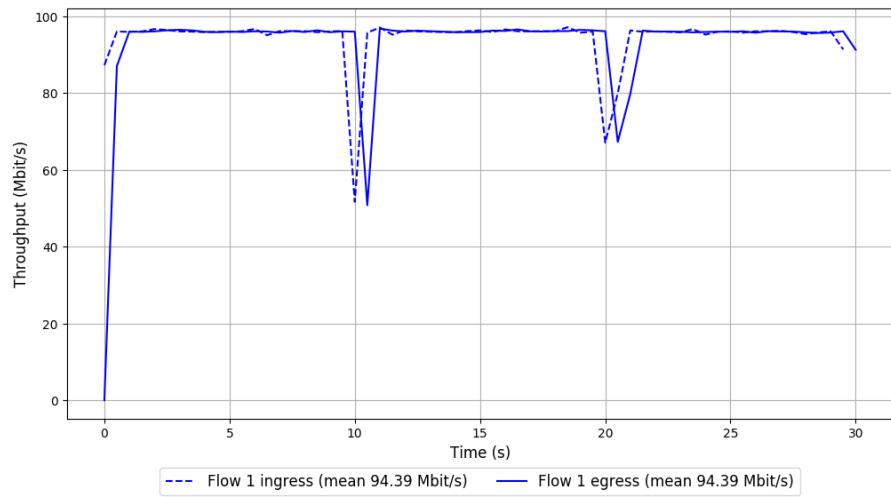


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-02-05 14:42:30
End at: 2019-02-05 14:43:00
Local clock offset: -4.259 ms
Remote clock offset: 0.235 ms

# Below is generated by plot.py at 2019-02-05 14:56:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.39 Mbit/s
95th percentile per-packet one-way delay: 4.838 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.39 Mbit/s
95th percentile per-packet one-way delay: 4.838 ms
Loss rate: 0.01%
```

### Run 5: Report of FillP-Sheep — Data Link

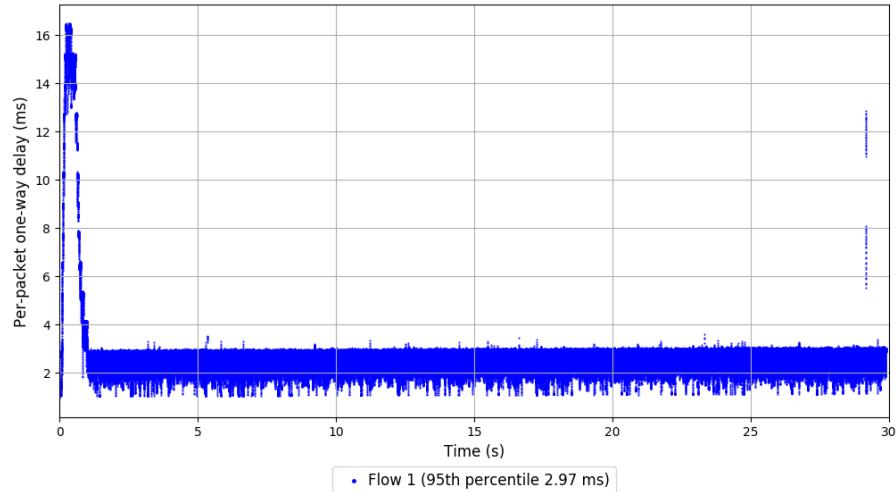
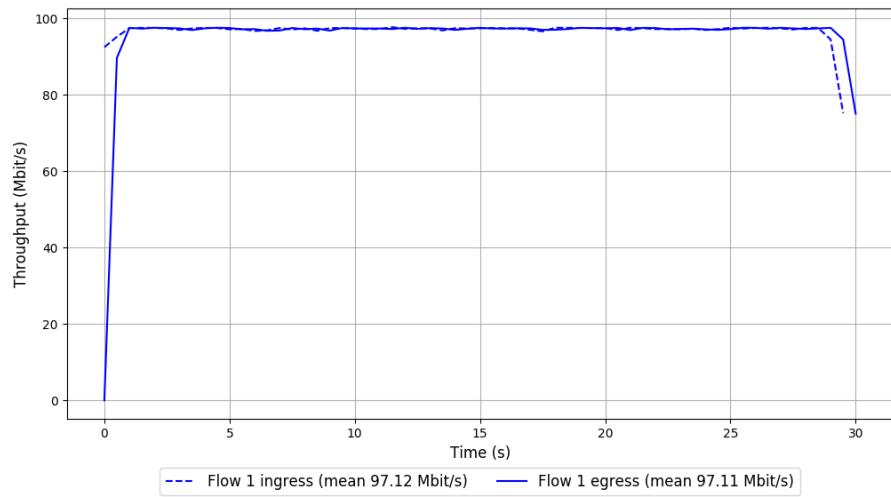


Run 1: Statistics of Indigo

```
Start at: 2019-02-05 13:04:50
End at: 2019-02-05 13:05:20
Local clock offset: -5.876 ms
Remote clock offset: -0.546 ms

# Below is generated by plot.py at 2019-02-05 14:56:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 2.972 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 2.972 ms
Loss rate: 0.01%
```

## Run 1: Report of Indigo — Data Link

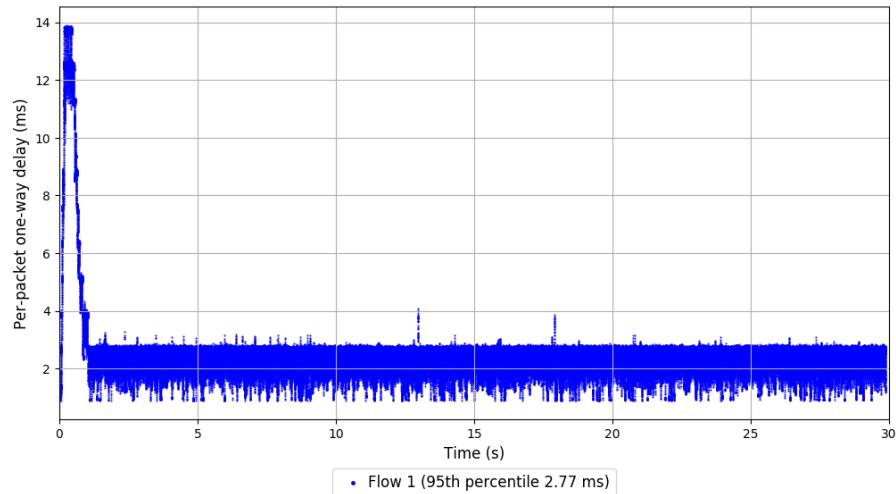
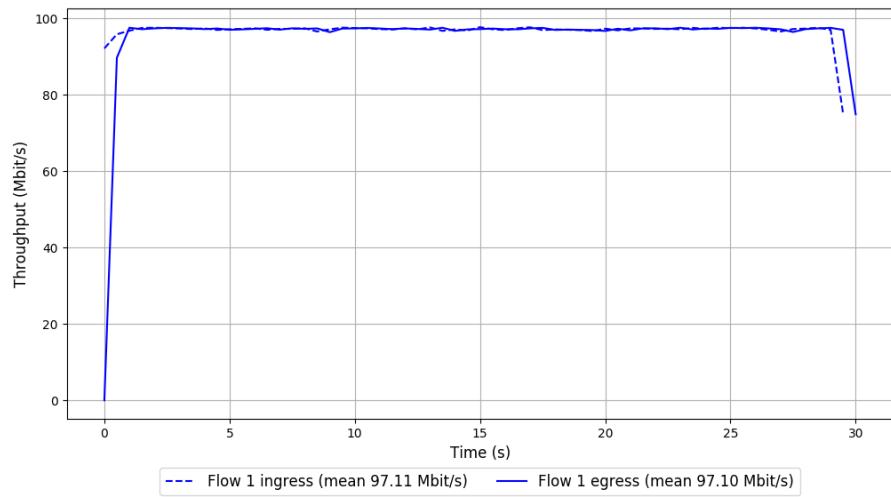


Run 2: Statistics of Indigo

```
Start at: 2019-02-05 13:28:27
End at: 2019-02-05 13:28:57
Local clock offset: -6.48 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-02-05 14:56:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 2.767 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 2.767 ms
Loss rate: 0.01%
```

## Run 2: Report of Indigo — Data Link

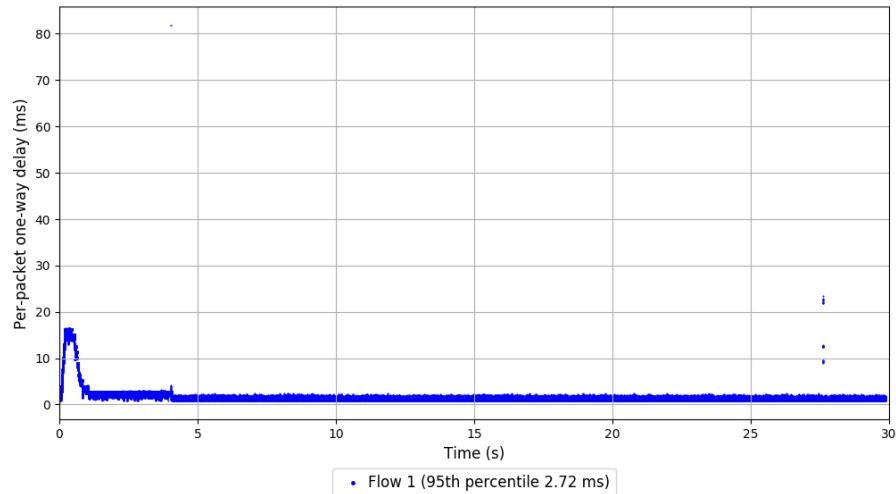
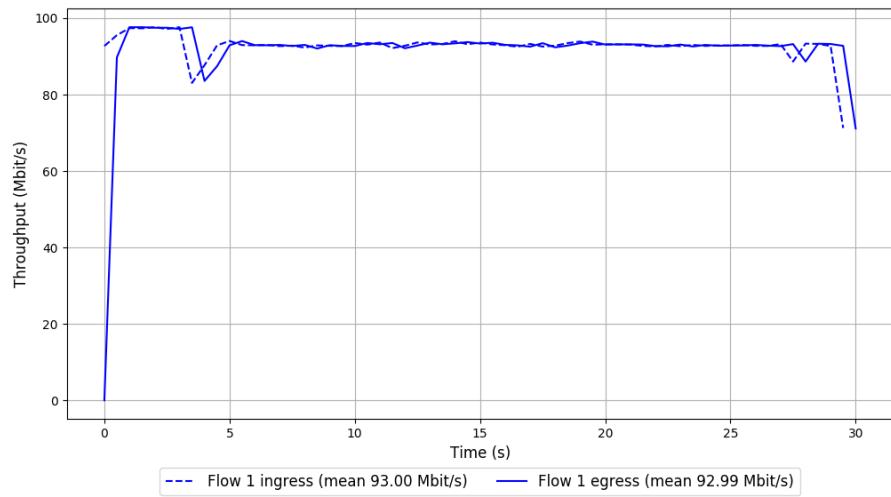


Run 3: Statistics of Indigo

```
Start at: 2019-02-05 13:52:01
End at: 2019-02-05 13:52:31
Local clock offset: -5.86 ms
Remote clock offset: 0.177 ms

# Below is generated by plot.py at 2019-02-05 14:57:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.99 Mbit/s
95th percentile per-packet one-way delay: 2.722 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 92.99 Mbit/s
95th percentile per-packet one-way delay: 2.722 ms
Loss rate: 0.01%
```

### Run 3: Report of Indigo — Data Link

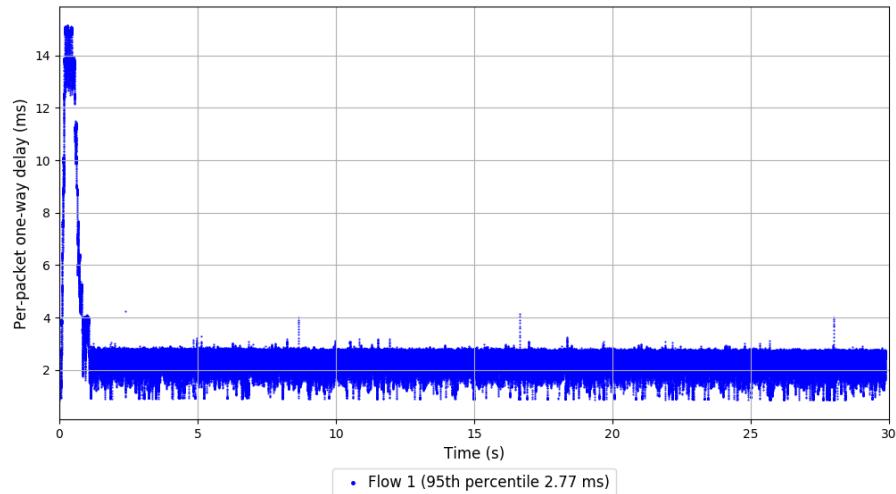
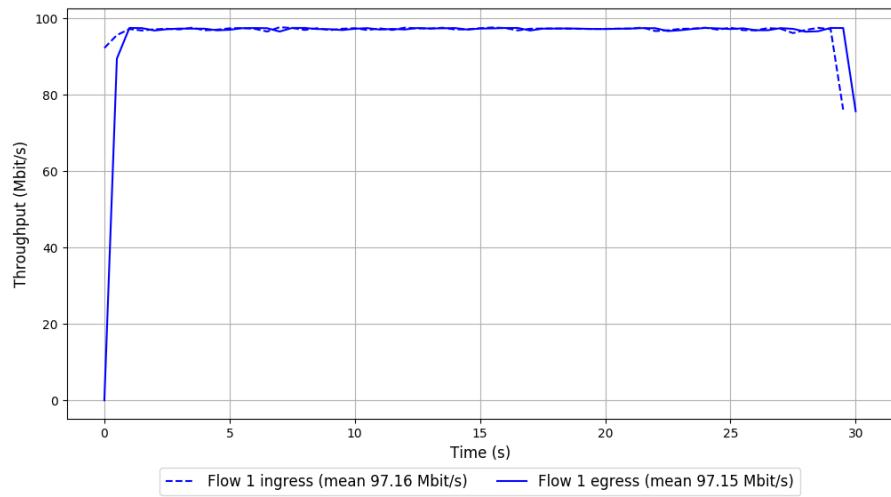


Run 4: Statistics of Indigo

```
Start at: 2019-02-05 14:15:35
End at: 2019-02-05 14:16:05
Local clock offset: -5.289 ms
Remote clock offset: 0.52 ms

# Below is generated by plot.py at 2019-02-05 14:57:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 2.767 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 2.767 ms
Loss rate: 0.01%
```

## Run 4: Report of Indigo — Data Link

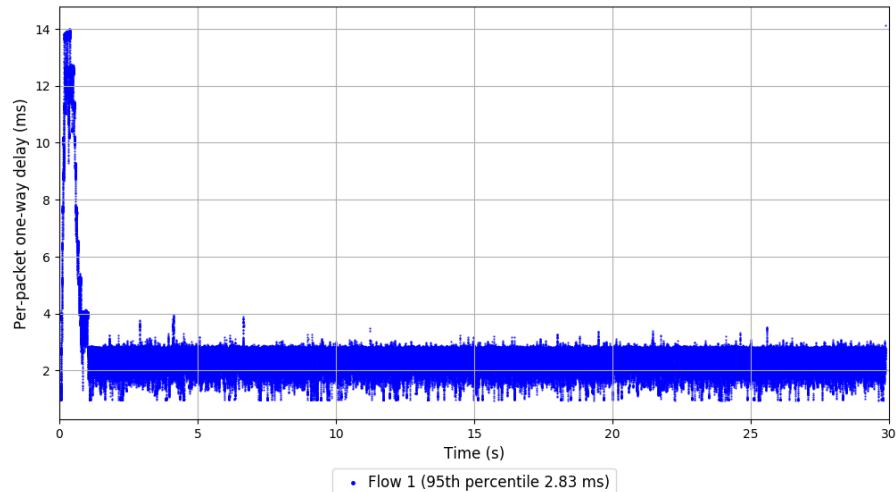
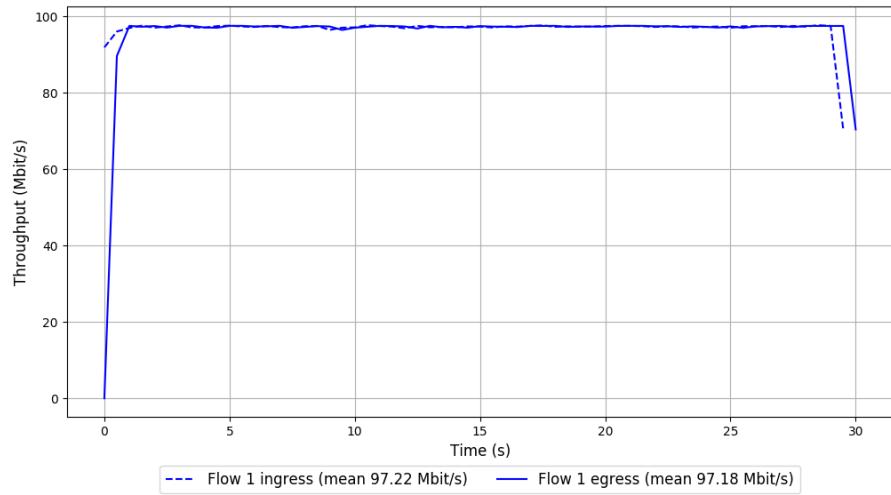


Run 5: Statistics of Indigo

```
Start at: 2019-02-05 14:39:11
End at: 2019-02-05 14:39:41
Local clock offset: -4.261 ms
Remote clock offset: 0.32 ms

# Below is generated by plot.py at 2019-02-05 14:57:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 2.825 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 2.825 ms
Loss rate: 0.01%
```

## Run 5: Report of Indigo — Data Link

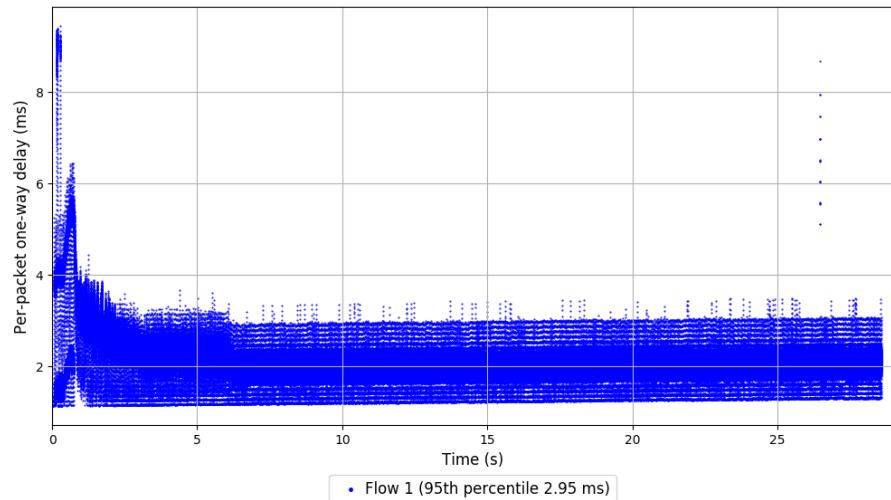
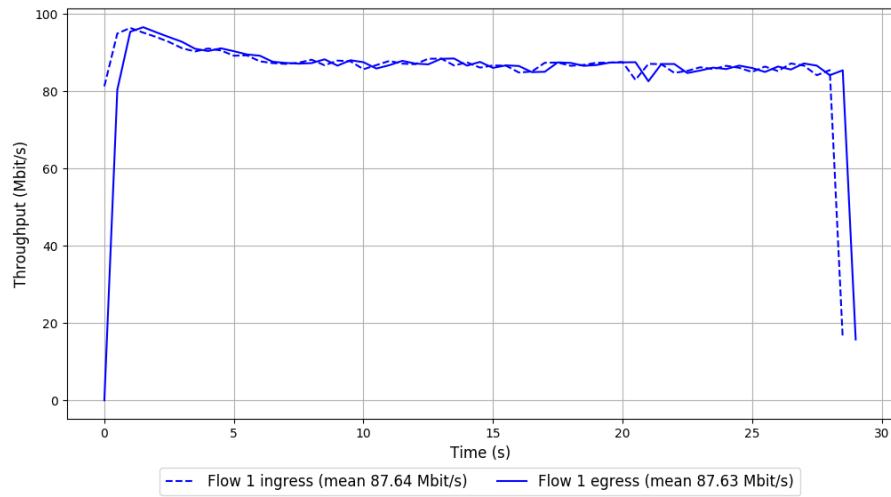


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 12:58:07
End at: 2019-02-05 12:58:37
Local clock offset: -3.924 ms
Remote clock offset: -0.654 ms

# Below is generated by plot.py at 2019-02-05 14:57:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 2.954 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 2.954 ms
Loss rate: 0.01%
```

## Run 1: Report of Indigo-MusesC3 — Data Link

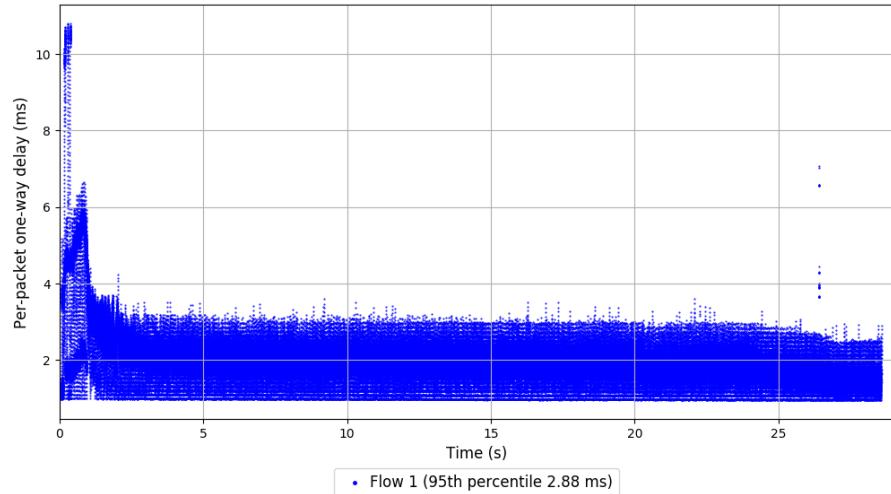
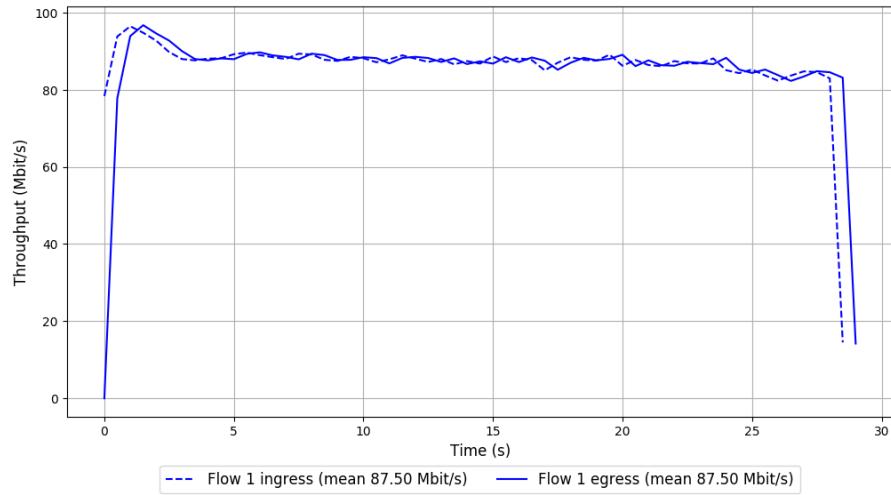


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 13:21:41
End at: 2019-02-05 13:22:11
Local clock offset: -6.836 ms
Remote clock offset: -0.336 ms

# Below is generated by plot.py at 2019-02-05 14:57:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.50 Mbit/s
95th percentile per-packet one-way delay: 2.876 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 87.50 Mbit/s
95th percentile per-packet one-way delay: 2.876 ms
Loss rate: 0.01%
```

## Run 2: Report of Indigo-MusesC3 — Data Link

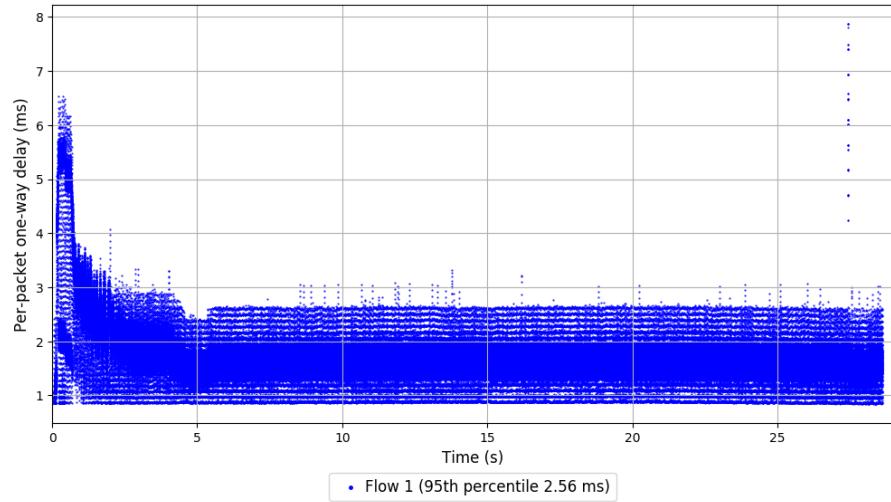
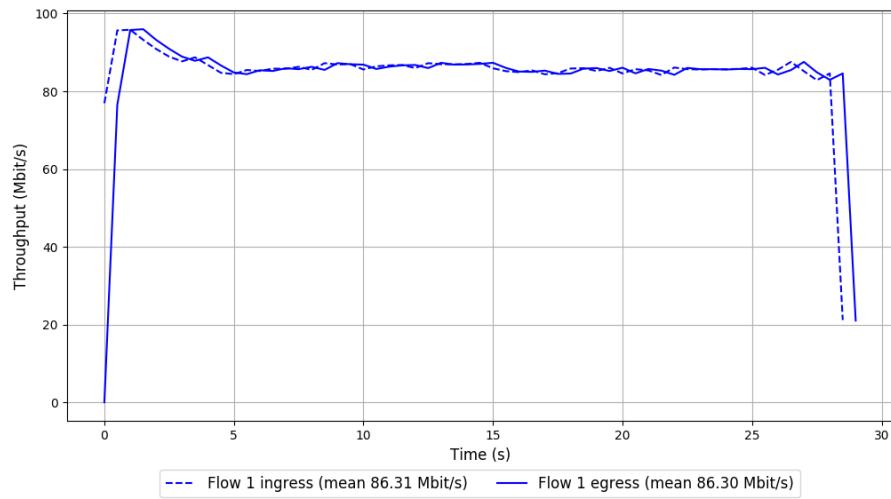


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 13:45:18
End at: 2019-02-05 13:45:48
Local clock offset: -7.003 ms
Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2019-02-05 14:57:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.30 Mbit/s
95th percentile per-packet one-way delay: 2.565 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.30 Mbit/s
95th percentile per-packet one-way delay: 2.565 ms
Loss rate: 0.01%
```

### Run 3: Report of Indigo-MusesC3 — Data Link

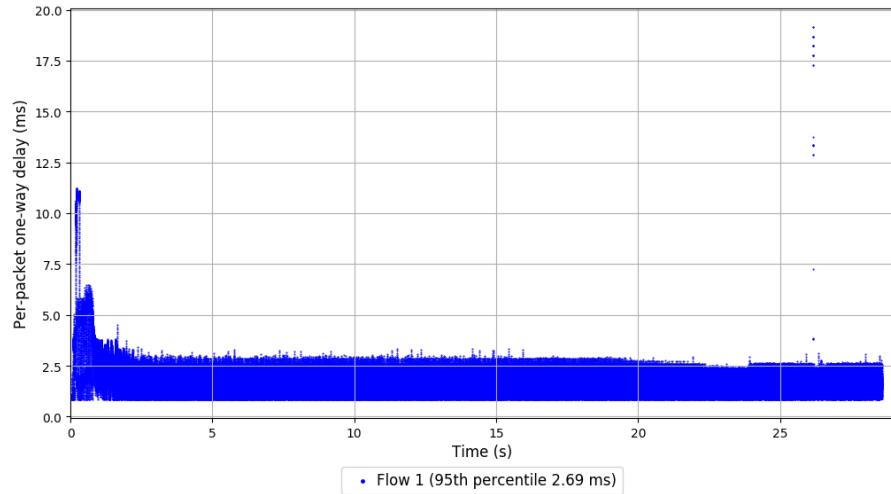
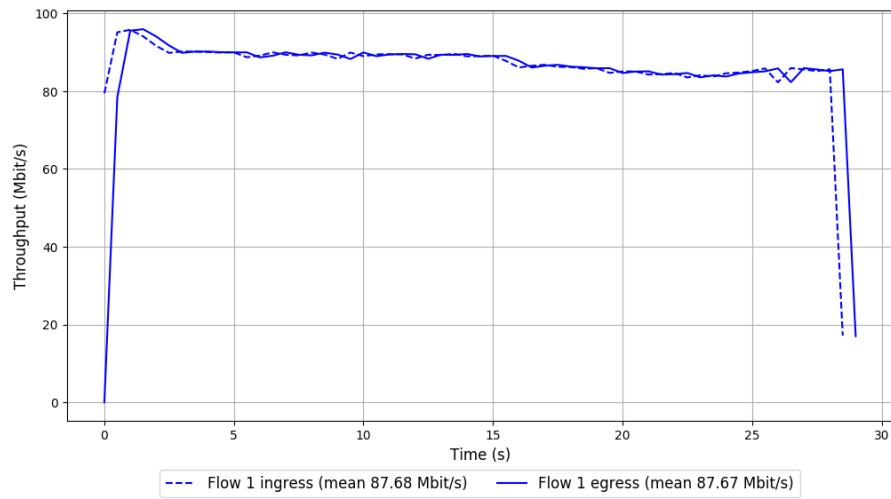


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 14:08:50
End at: 2019-02-05 14:09:20
Local clock offset: -5.241 ms
Remote clock offset: 0.459 ms

# Below is generated by plot.py at 2019-02-05 14:57:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 2.687 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 2.687 ms
Loss rate: 0.01%
```

## Run 4: Report of Indigo-MusesC3 — Data Link

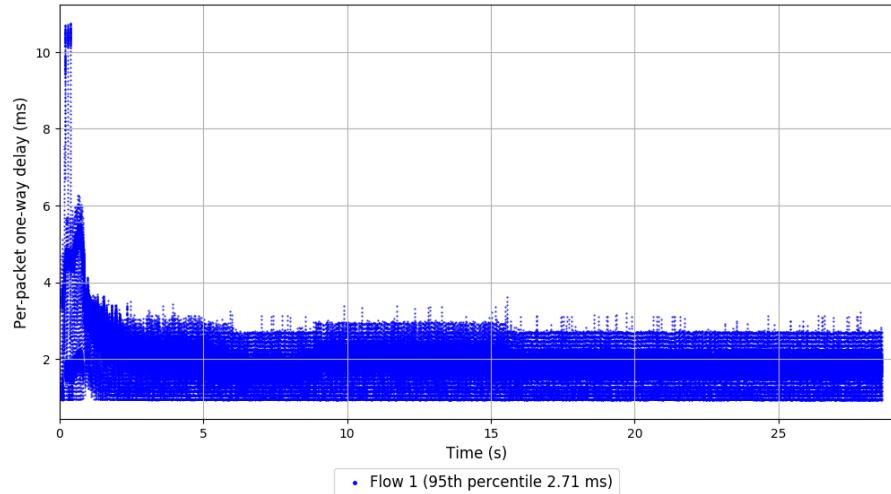
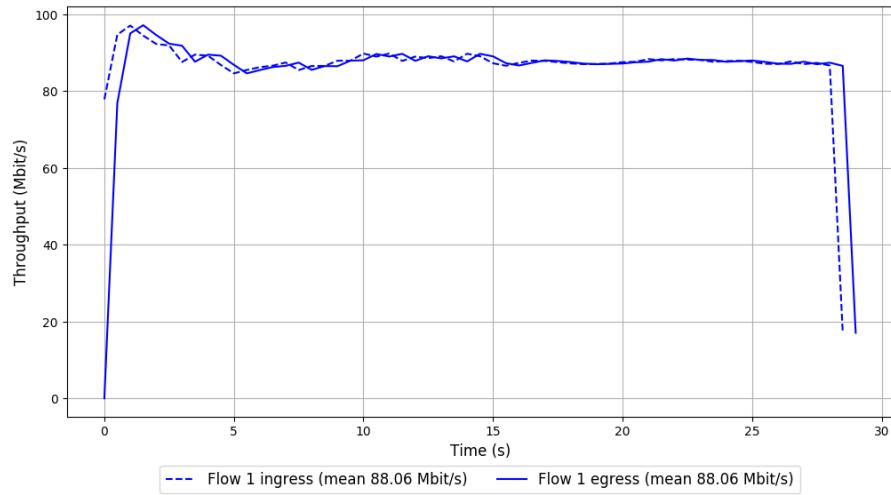


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 14:32:26
End at: 2019-02-05 14:32:56
Local clock offset: -4.334 ms
Remote clock offset: 0.425 ms

# Below is generated by plot.py at 2019-02-05 14:57:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.06 Mbit/s
95th percentile per-packet one-way delay: 2.714 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.06 Mbit/s
95th percentile per-packet one-way delay: 2.714 ms
Loss rate: 0.01%
```

## Run 5: Report of Indigo-MusesC3 — Data Link

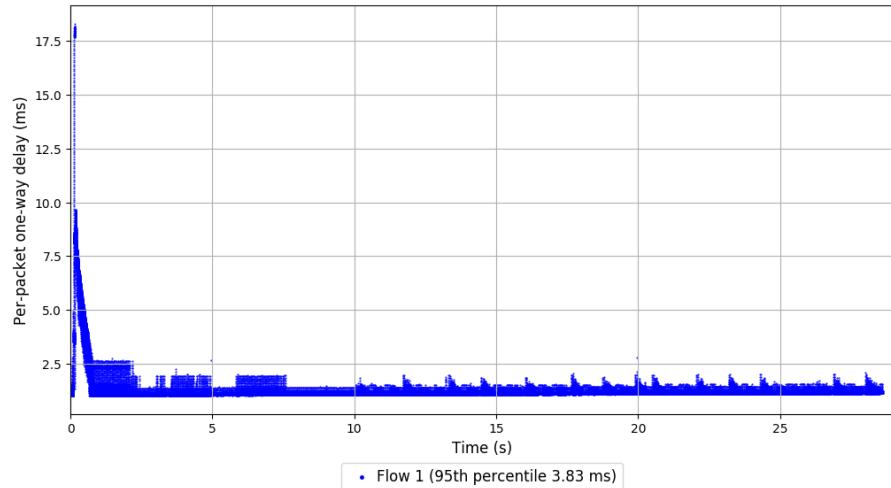
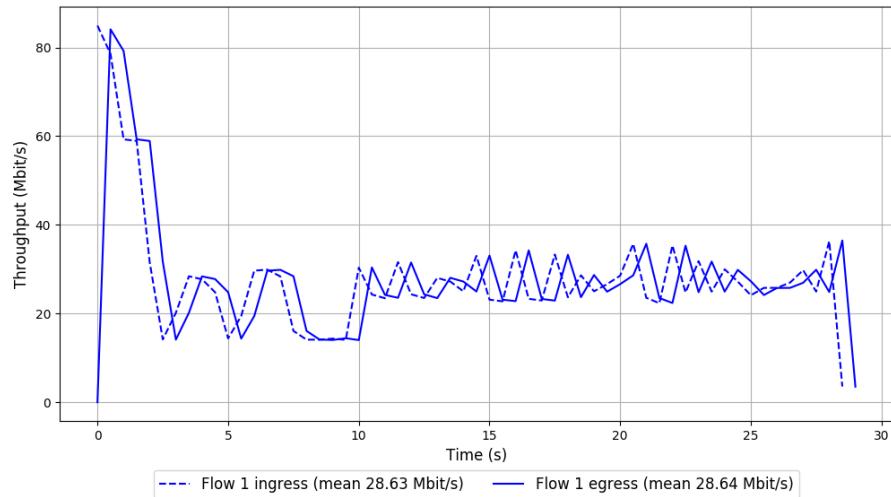


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 13:05:59
End at: 2019-02-05 13:06:29
Local clock offset: -6.13 ms
Remote clock offset: -0.53 ms

# Below is generated by plot.py at 2019-02-05 14:57:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.64 Mbit/s
95th percentile per-packet one-way delay: 3.832 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.64 Mbit/s
95th percentile per-packet one-way delay: 3.832 ms
Loss rate: 0.00%
```

## Run 1: Report of Indigo-MusesC5 — Data Link

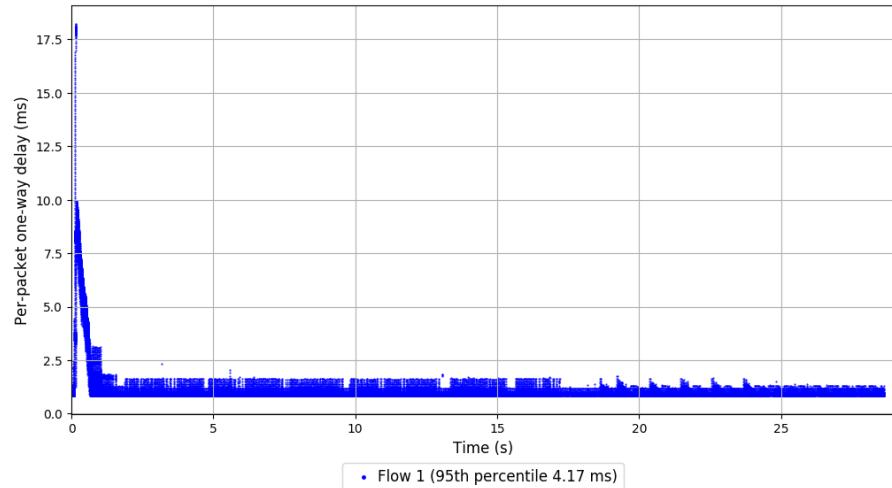
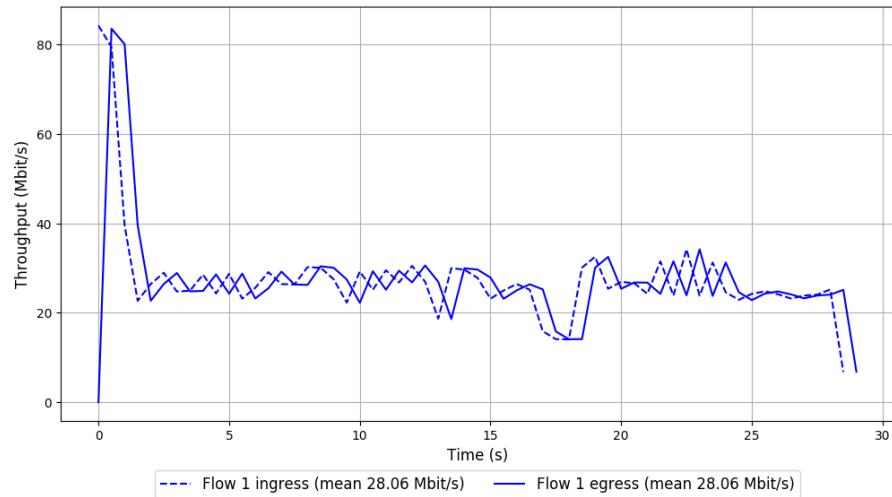


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 13:29:37
End at: 2019-02-05 13:30:07
Local clock offset: -6.537 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-02-05 14:57:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.06 Mbit/s
95th percentile per-packet one-way delay: 4.171 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 28.06 Mbit/s
95th percentile per-packet one-way delay: 4.171 ms
Loss rate: 0.01%
```

## Run 2: Report of Indigo-MusesC5 — Data Link

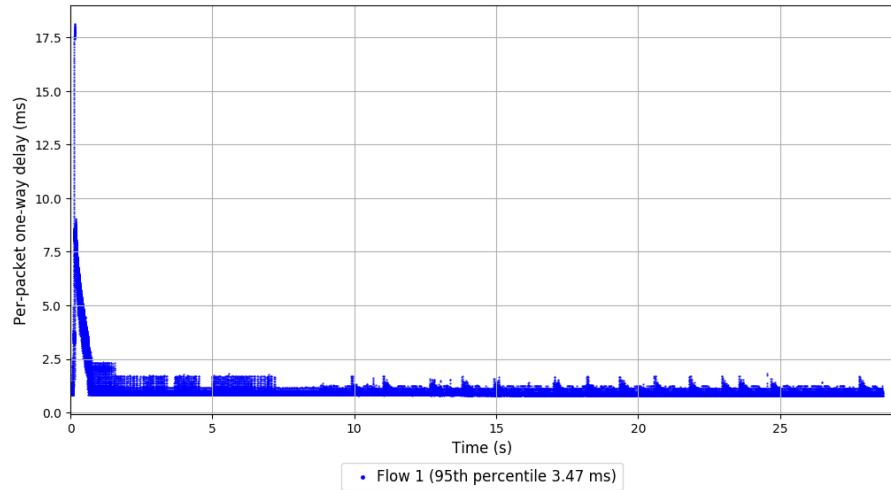
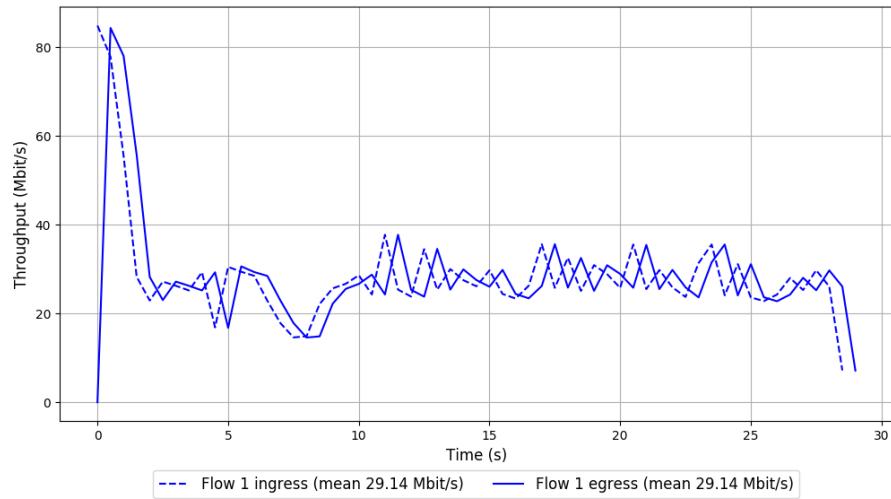


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 13:53:10
End at: 2019-02-05 13:53:40
Local clock offset: -5.723 ms
Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2019-02-05 14:57:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.14 Mbit/s
95th percentile per-packet one-way delay: 3.472 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 29.14 Mbit/s
95th percentile per-packet one-way delay: 3.472 ms
Loss rate: 0.01%
```

### Run 3: Report of Indigo-MusesC5 — Data Link

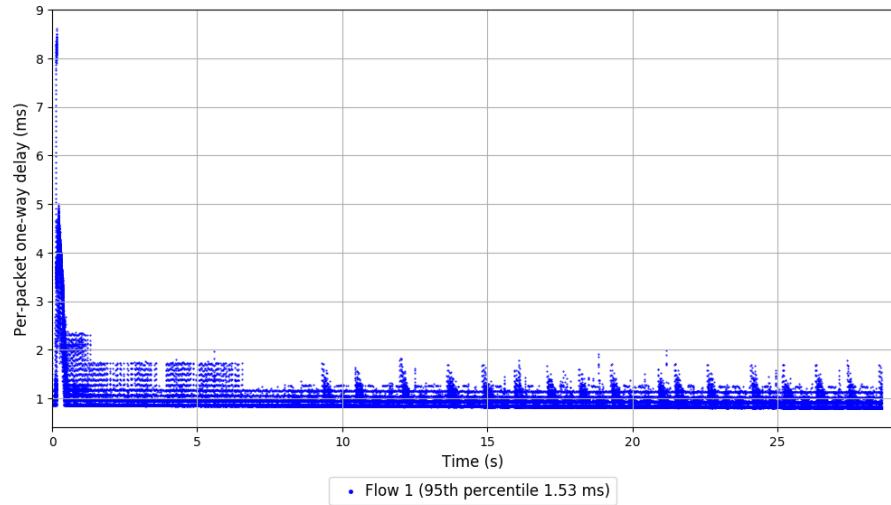
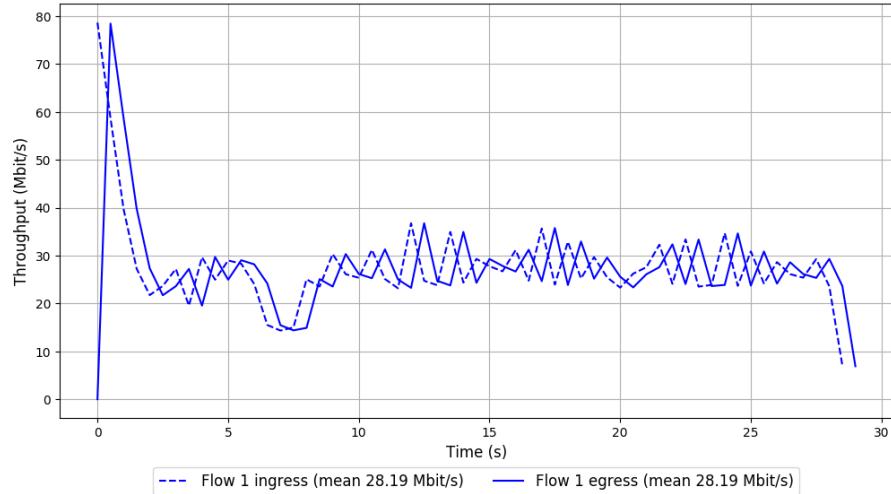


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 14:16:44
End at: 2019-02-05 14:17:14
Local clock offset: -5.201 ms
Remote clock offset: 0.521 ms

# Below is generated by plot.py at 2019-02-05 14:57:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.19 Mbit/s
95th percentile per-packet one-way delay: 1.532 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 28.19 Mbit/s
95th percentile per-packet one-way delay: 1.532 ms
Loss rate: 0.01%
```

## Run 4: Report of Indigo-MusesC5 — Data Link

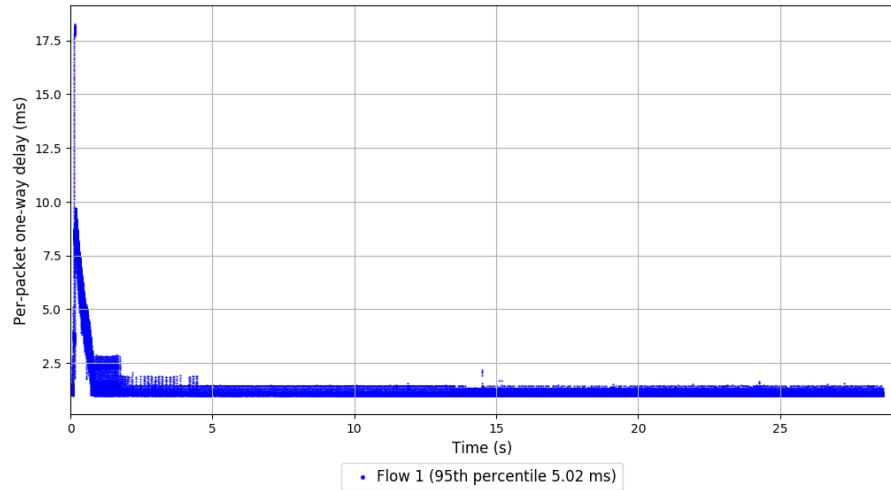
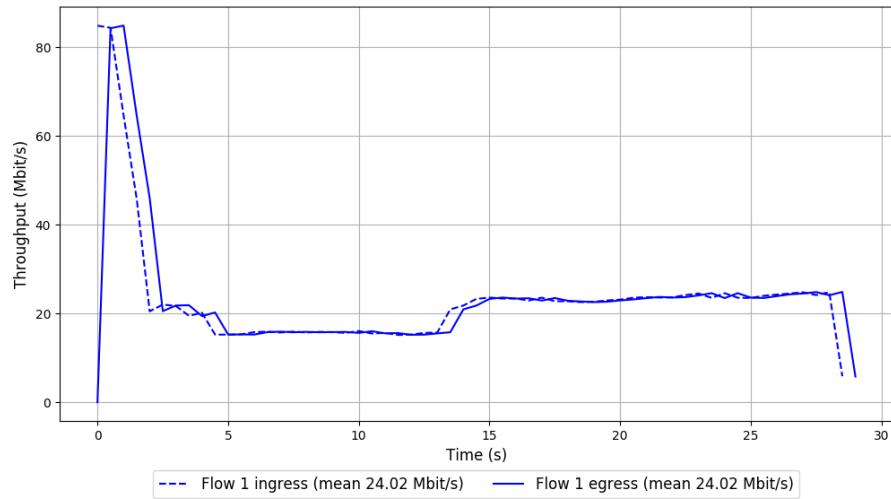


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 14:40:20
End at: 2019-02-05 14:40:50
Local clock offset: -4.269 ms
Remote clock offset: 0.228 ms

# Below is generated by plot.py at 2019-02-05 14:57:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.02 Mbit/s
95th percentile per-packet one-way delay: 5.022 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 24.02 Mbit/s
95th percentile per-packet one-way delay: 5.022 ms
Loss rate: 0.01%
```

## Run 5: Report of Indigo-MusesC5 — Data Link

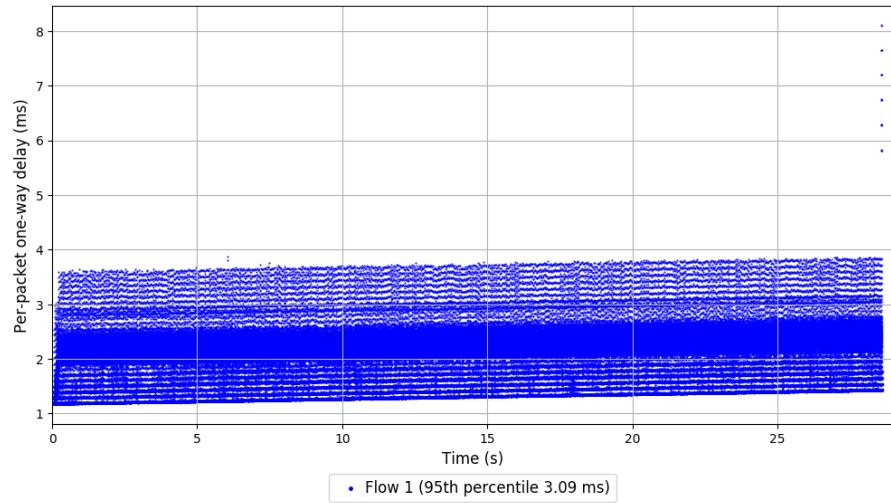
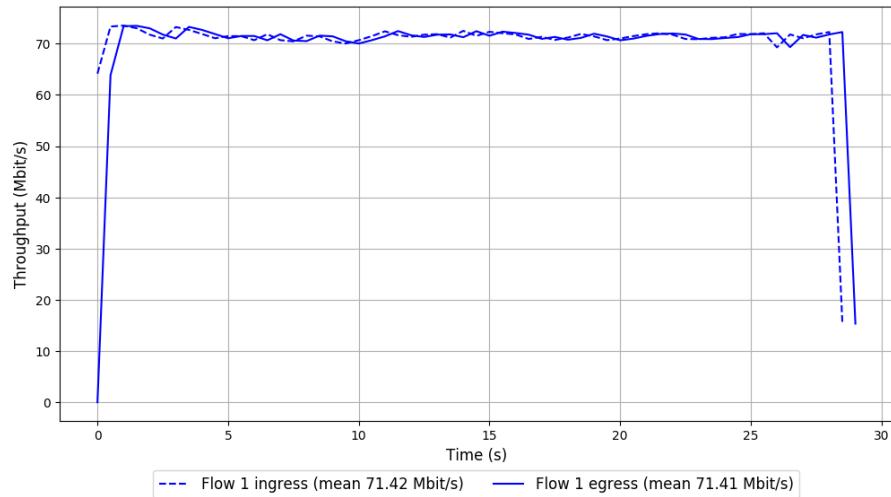


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-02-05 12:53:35
End at: 2019-02-05 12:54:05
Local clock offset: -1.868 ms
Remote clock offset: -0.646 ms

# Below is generated by plot.py at 2019-02-05 14:58:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.41 Mbit/s
95th percentile per-packet one-way delay: 3.091 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 71.41 Mbit/s
95th percentile per-packet one-way delay: 3.091 ms
Loss rate: 0.01%
```

## Run 1: Report of Indigo-MusesD — Data Link

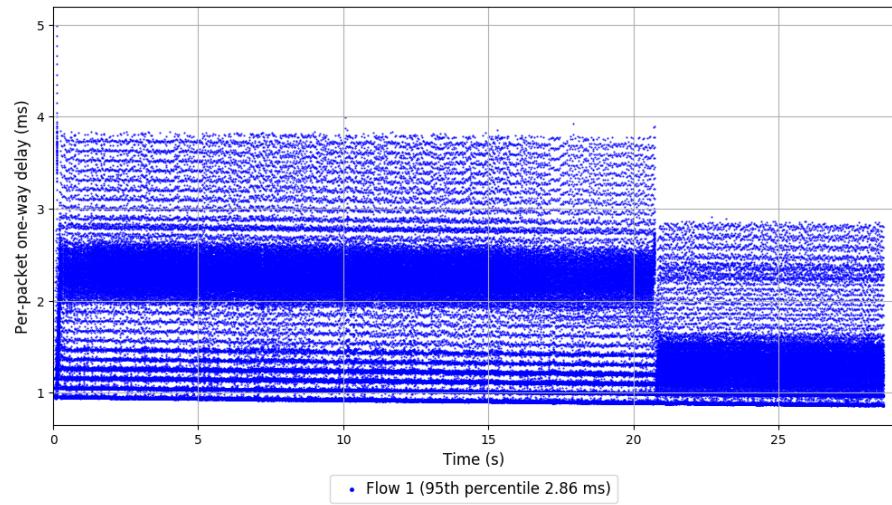
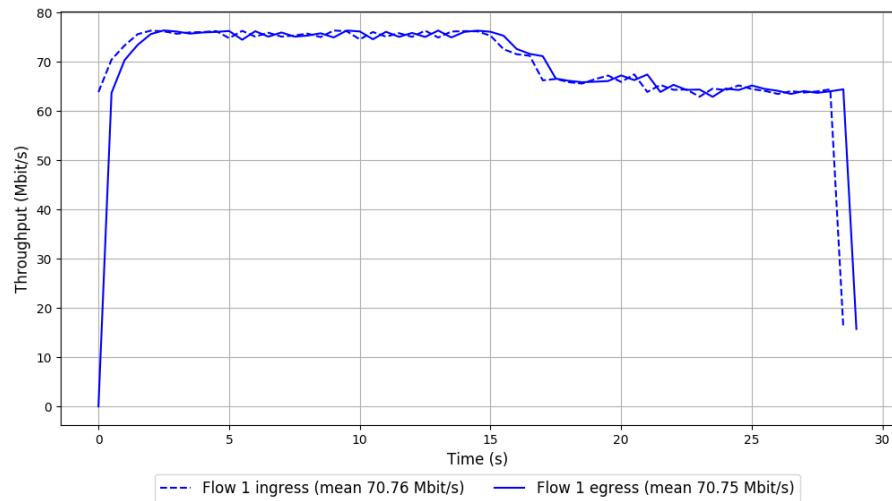


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 13:17:09
End at: 2019-02-05 13:17:39
Local clock offset: -7.535 ms
Remote clock offset: -0.415 ms

# Below is generated by plot.py at 2019-02-05 14:58:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.75 Mbit/s
95th percentile per-packet one-way delay: 2.860 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 70.75 Mbit/s
95th percentile per-packet one-way delay: 2.860 ms
Loss rate: 0.01%
```

## Run 2: Report of Indigo-MusesD — Data Link

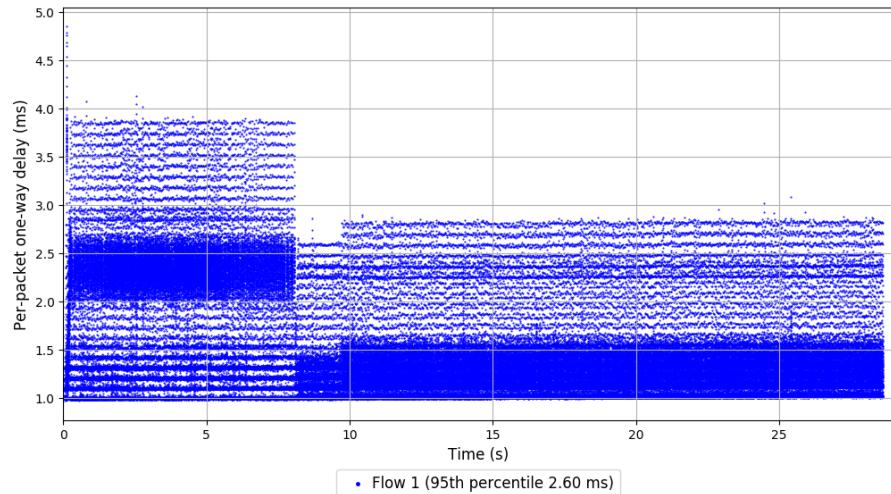
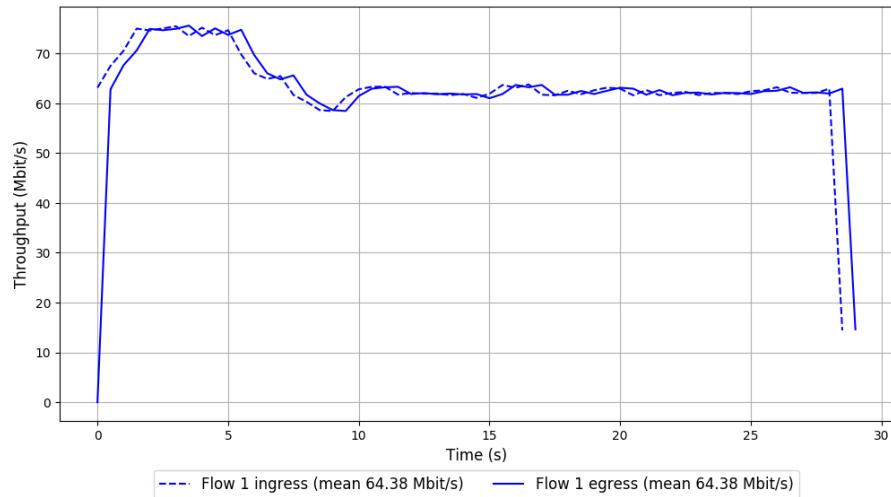


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 13:40:47
End at: 2019-02-05 13:41:17
Local clock offset: -6.74 ms
Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2019-02-05 14:58:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.38 Mbit/s
95th percentile per-packet one-way delay: 2.599 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.38 Mbit/s
95th percentile per-packet one-way delay: 2.599 ms
Loss rate: 0.00%
```

### Run 3: Report of Indigo-MusesD — Data Link

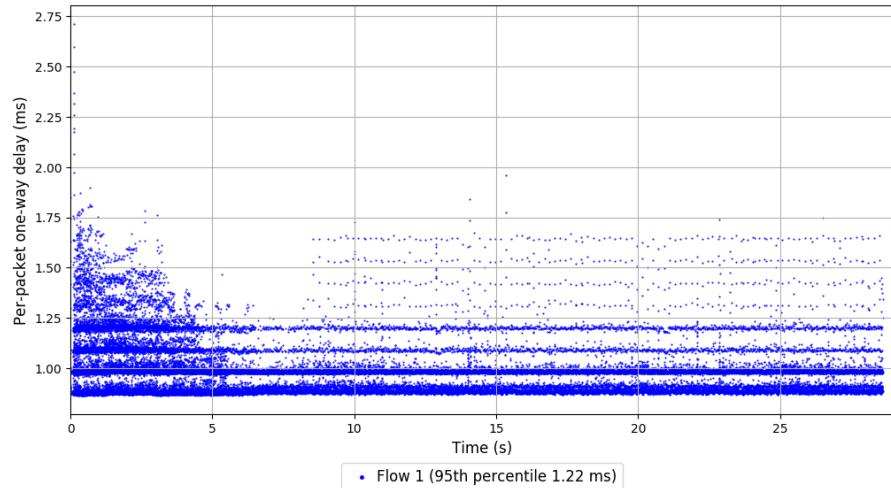
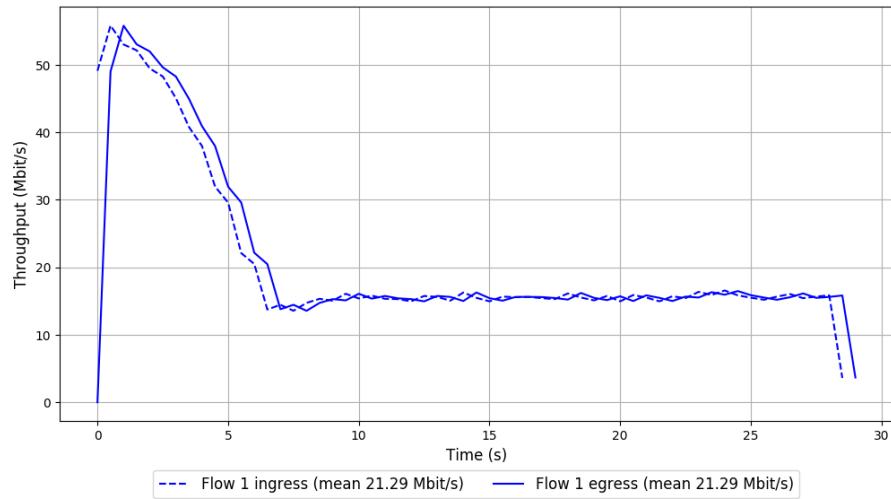


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 14:04:20
End at: 2019-02-05 14:04:50
Local clock offset: -5.236 ms
Remote clock offset: 0.355 ms

# Below is generated by plot.py at 2019-02-05 14:58:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.29 Mbit/s
95th percentile per-packet one-way delay: 1.217 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.29 Mbit/s
95th percentile per-packet one-way delay: 1.217 ms
Loss rate: 0.00%
```

## Run 4: Report of Indigo-MusesD — Data Link

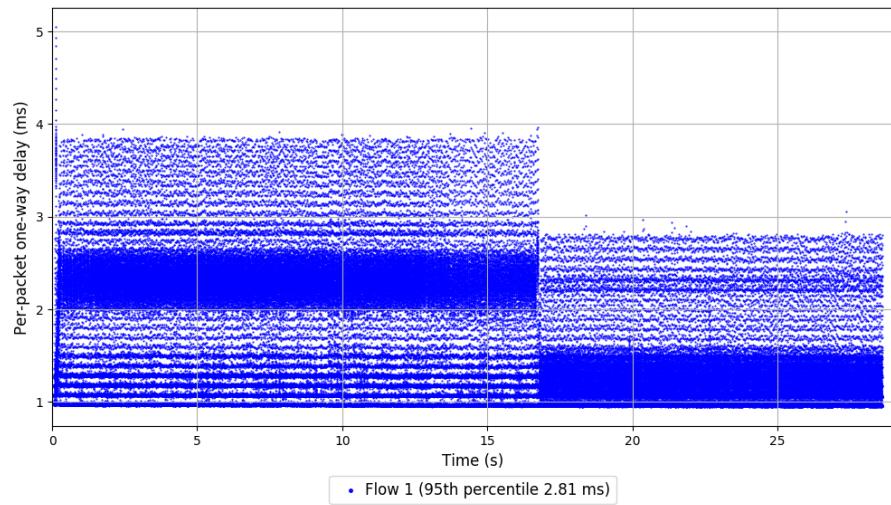
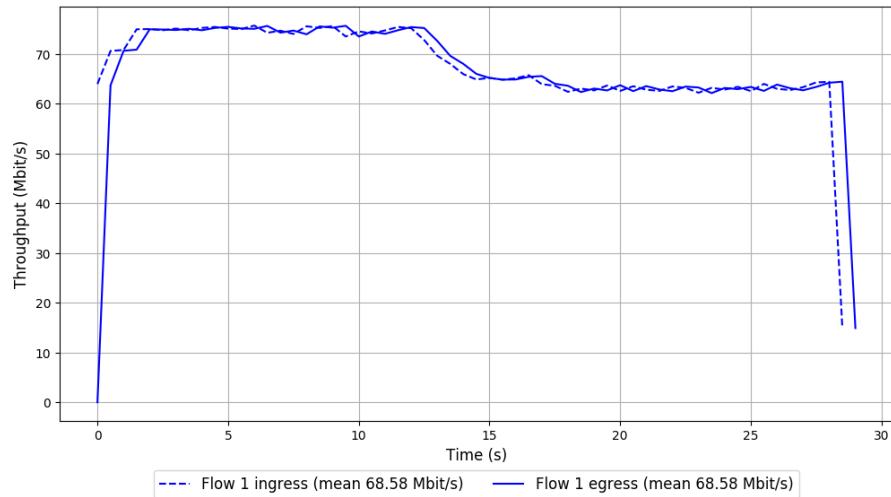


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 14:27:54
End at: 2019-02-05 14:28:24
Local clock offset: -4.416 ms
Remote clock offset: 0.476 ms

# Below is generated by plot.py at 2019-02-05 14:58:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.58 Mbit/s
95th percentile per-packet one-way delay: 2.810 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 68.58 Mbit/s
95th percentile per-packet one-way delay: 2.810 ms
Loss rate: 0.01%
```

## Run 5: Report of Indigo-MusesD — Data Link

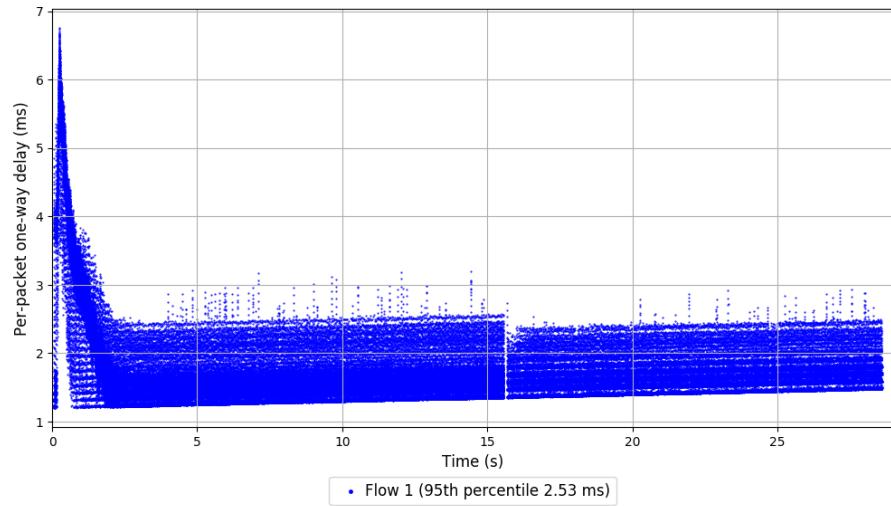
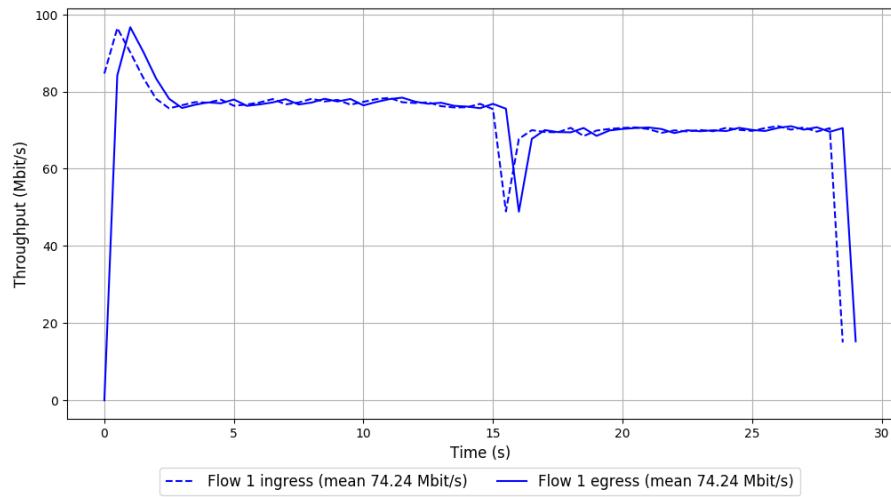


```
Run 1: Statistics of Indigo-MusesT
```

```
Start at: 2019-02-05 12:52:28
End at: 2019-02-05 12:52:58
Local clock offset: -1.149 ms
Remote clock offset: -0.573 ms

# Below is generated by plot.py at 2019-02-05 14:58:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.24 Mbit/s
95th percentile per-packet one-way delay: 2.530 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.24 Mbit/s
95th percentile per-packet one-way delay: 2.530 ms
Loss rate: 0.00%
```

## Run 1: Report of Indigo-MusesT — Data Link

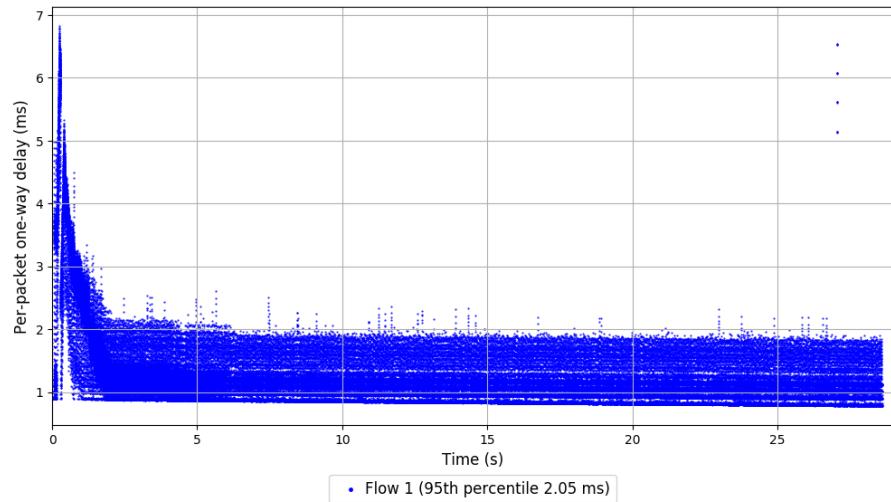
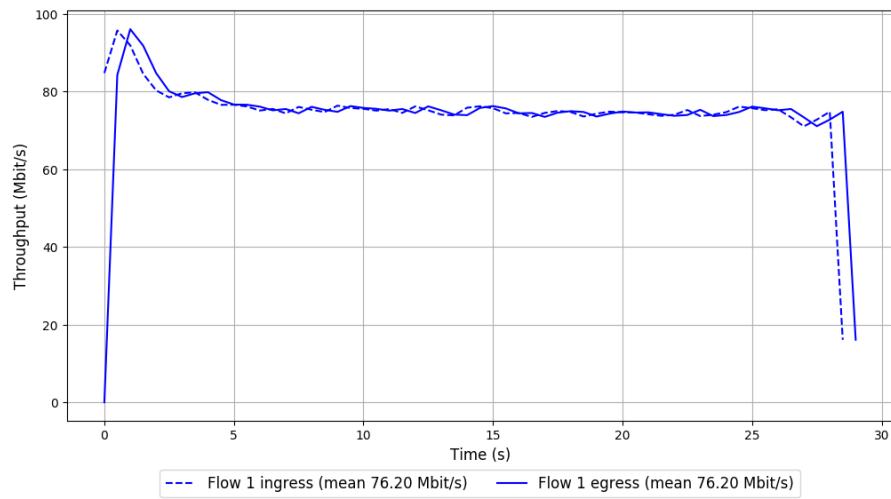


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 13:16:02
End at: 2019-02-05 13:16:32
Local clock offset: -7.79 ms
Remote clock offset: -0.374 ms

# Below is generated by plot.py at 2019-02-05 14:58:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.20 Mbit/s
95th percentile per-packet one-way delay: 2.050 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.20 Mbit/s
95th percentile per-packet one-way delay: 2.050 ms
Loss rate: 0.00%
```

## Run 2: Report of Indigo-MusesT — Data Link

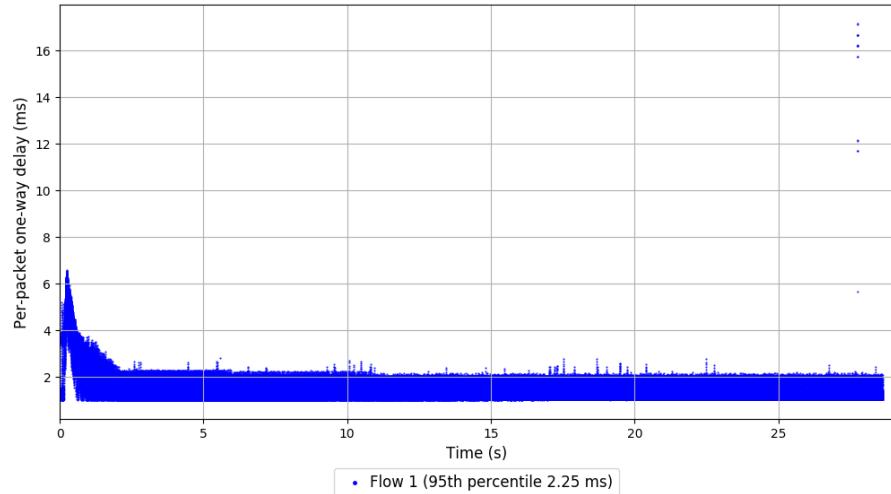
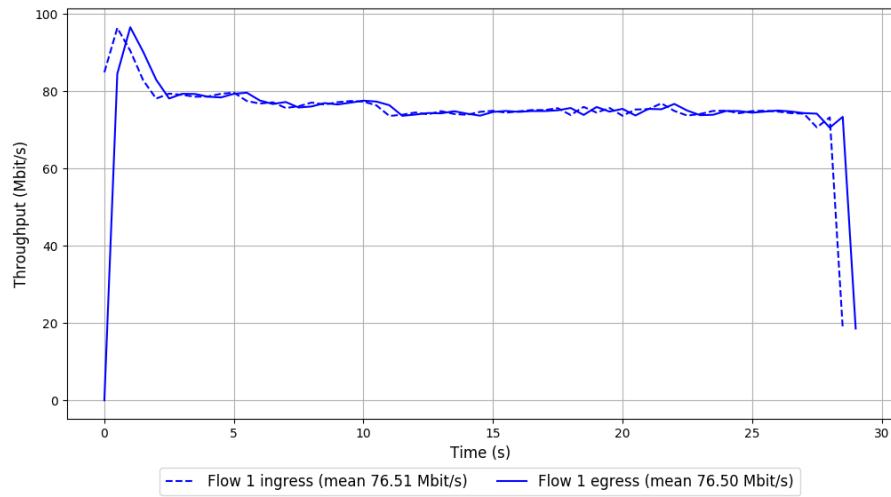


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 13:39:40
End at: 2019-02-05 13:40:10
Local clock offset: -6.703 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-02-05 14:58:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.50 Mbit/s
95th percentile per-packet one-way delay: 2.250 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 76.50 Mbit/s
95th percentile per-packet one-way delay: 2.250 ms
Loss rate: 0.01%
```

### Run 3: Report of Indigo-MusesT — Data Link

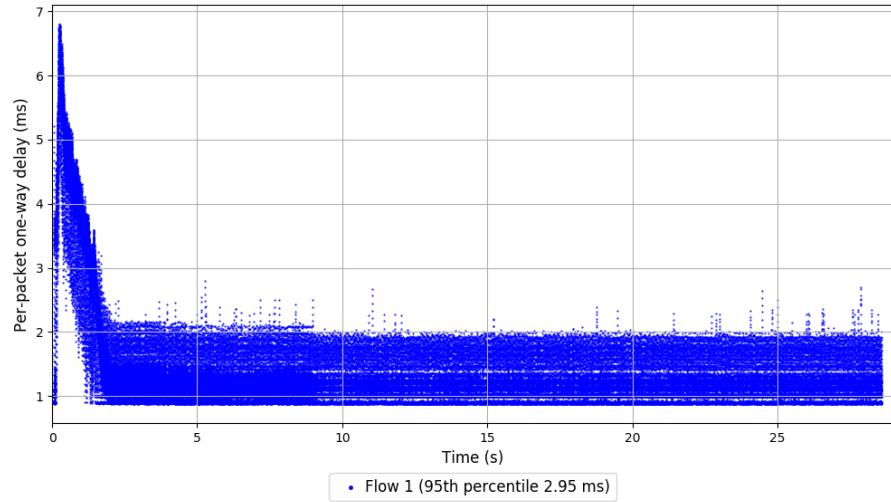
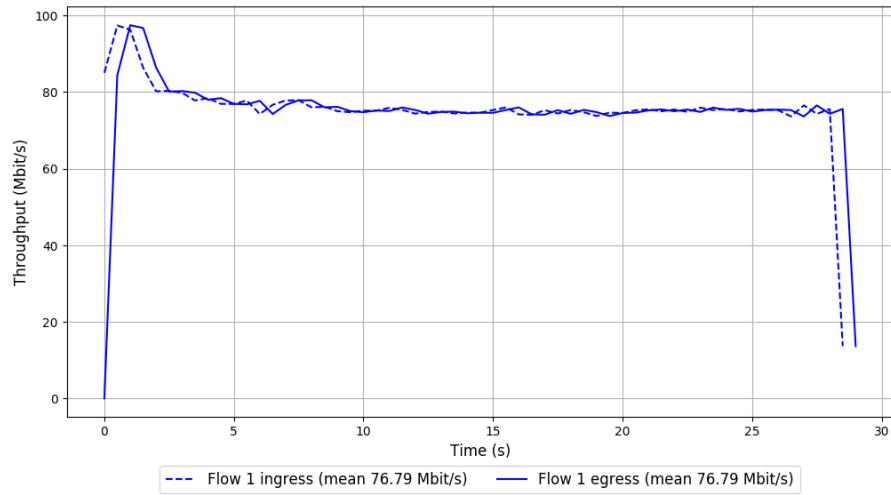


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 14:03:13
End at: 2019-02-05 14:03:43
Local clock offset: -5.252 ms
Remote clock offset: 0.329 ms

# Below is generated by plot.py at 2019-02-05 14:58:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.79 Mbit/s
95th percentile per-packet one-way delay: 2.947 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 76.79 Mbit/s
95th percentile per-packet one-way delay: 2.947 ms
Loss rate: 0.01%
```

## Run 4: Report of Indigo-MusesT — Data Link

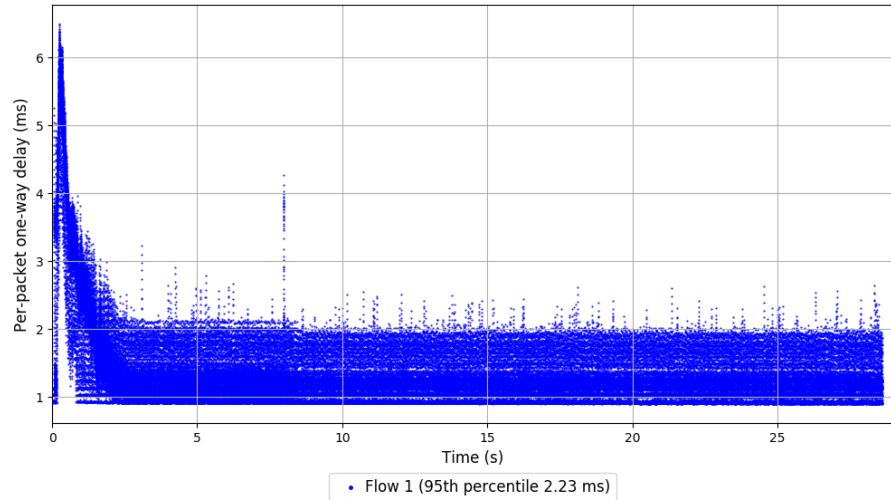
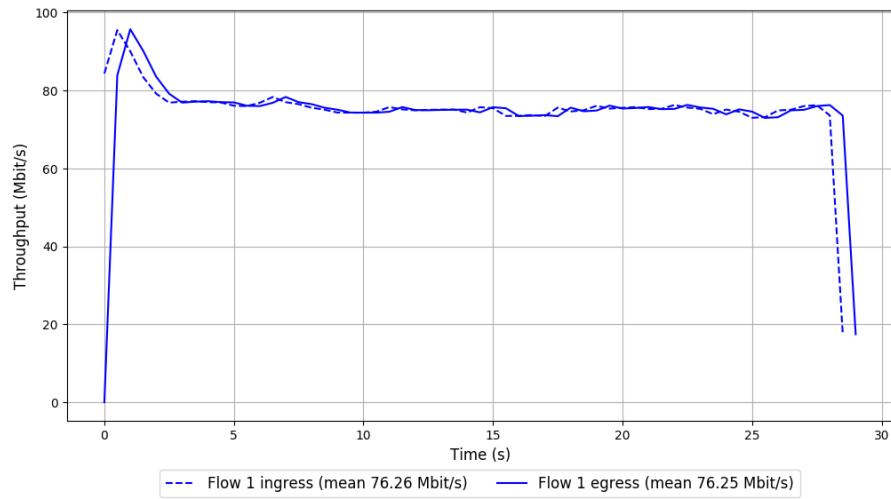


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 14:26:47
End at: 2019-02-05 14:27:17
Local clock offset: -4.468 ms
Remote clock offset: 0.493 ms

# Below is generated by plot.py at 2019-02-05 14:58:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.25 Mbit/s
95th percentile per-packet one-way delay: 2.234 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 76.25 Mbit/s
95th percentile per-packet one-way delay: 2.234 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-MusesT — Data Link

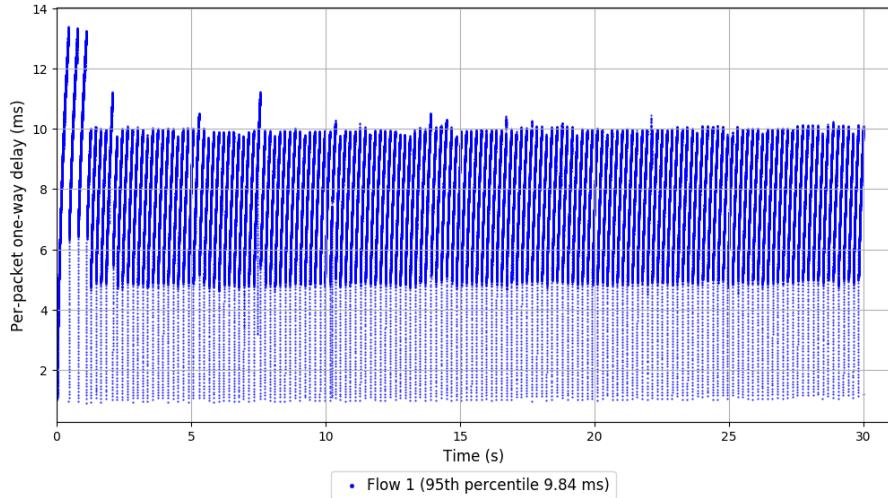
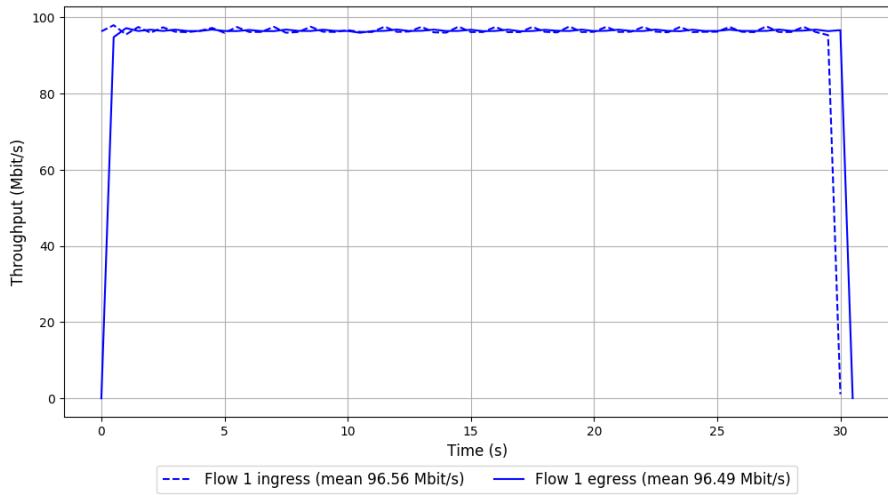


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-02-05 13:02:34
End at: 2019-02-05 13:03:05
Local clock offset: -5.424 ms
Remote clock offset: -0.658 ms

# Below is generated by plot.py at 2019-02-05 14:59:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 9.837 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 9.837 ms
Loss rate: 0.08%
```

## Run 1: Report of LEDBAT — Data Link

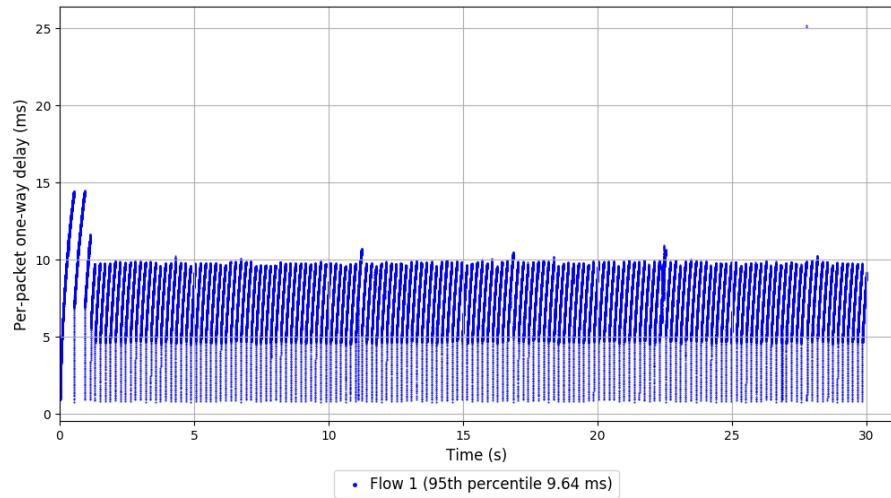
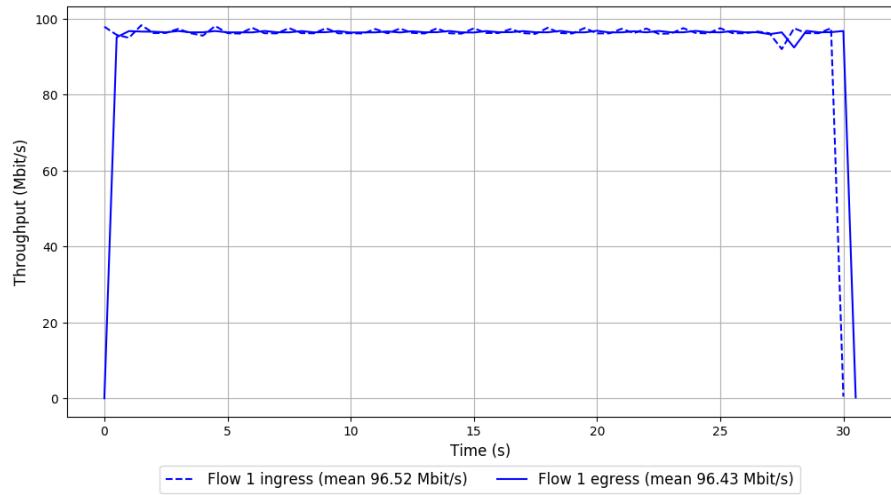


Run 2: Statistics of LEDBAT

```
Start at: 2019-02-05 13:26:12
End at: 2019-02-05 13:26:42
Local clock offset: -6.529 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-02-05 14:59:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.43 Mbit/s
95th percentile per-packet one-way delay: 9.640 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.43 Mbit/s
95th percentile per-packet one-way delay: 9.640 ms
Loss rate: 0.10%
```

## Run 2: Report of LEDBAT — Data Link

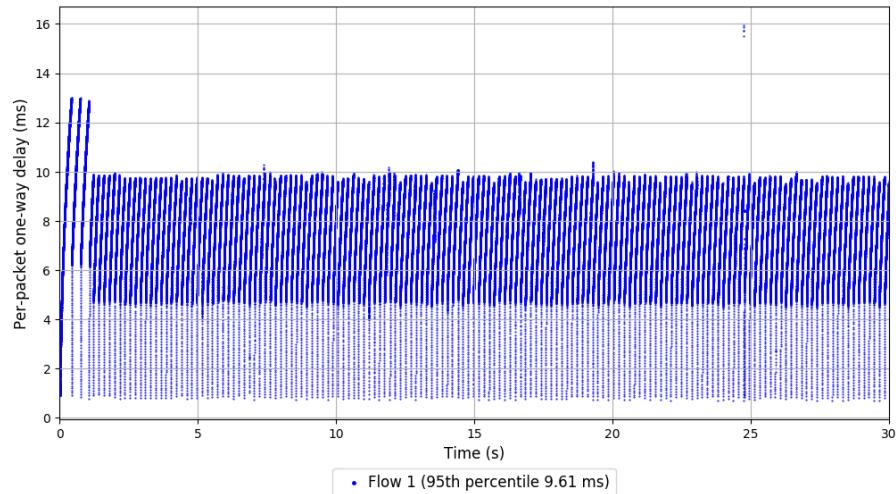
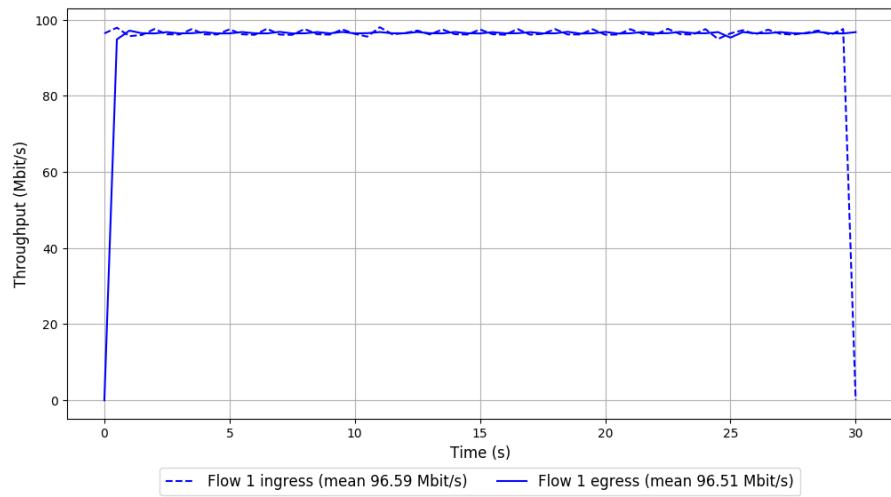


Run 3: Statistics of LEDBAT

```
Start at: 2019-02-05 13:49:46
End at: 2019-02-05 13:50:16
Local clock offset: -6.233 ms
Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2019-02-05 14:59:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 9.614 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 9.614 ms
Loss rate: 0.10%
```

### Run 3: Report of LEDBAT — Data Link

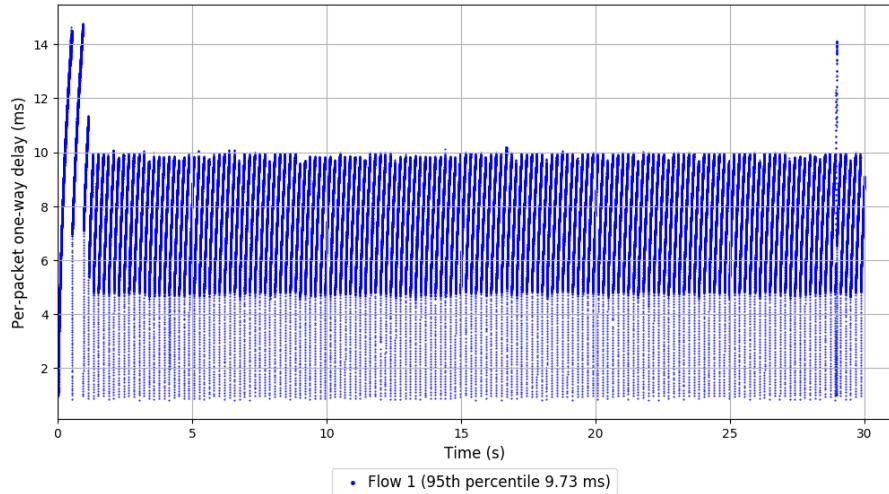
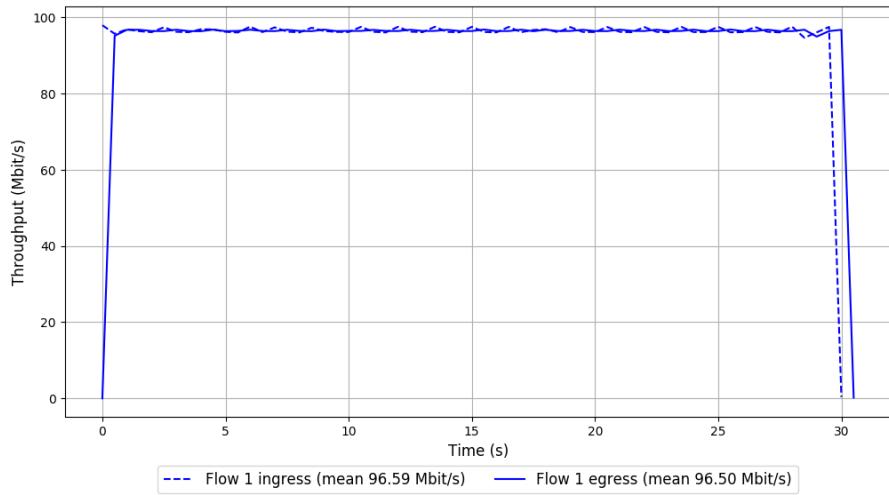


Run 4: Statistics of LEDBAT

```
Start at: 2019-02-05 14:13:20
End at: 2019-02-05 14:13:50
Local clock offset: -5.245 ms
Remote clock offset: 0.421 ms

# Below is generated by plot.py at 2019-02-05 14:59:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 9.727 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 9.727 ms
Loss rate: 0.10%
```

Run 4: Report of LEDBAT — Data Link

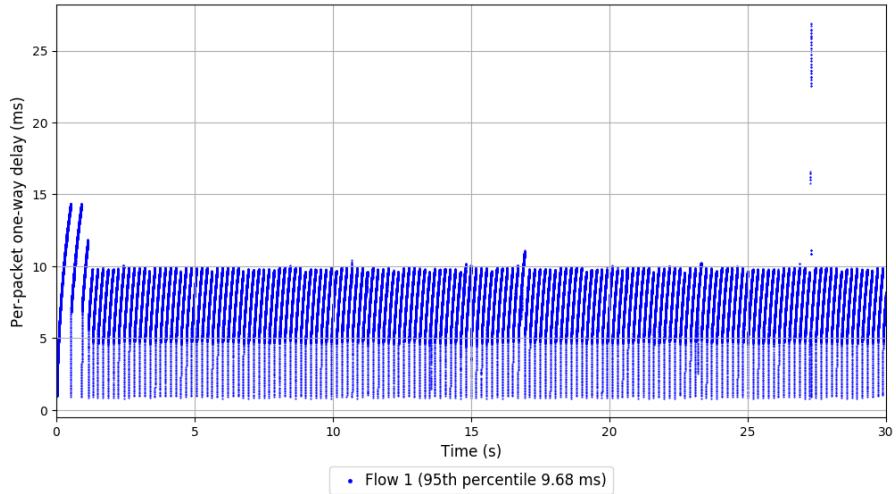
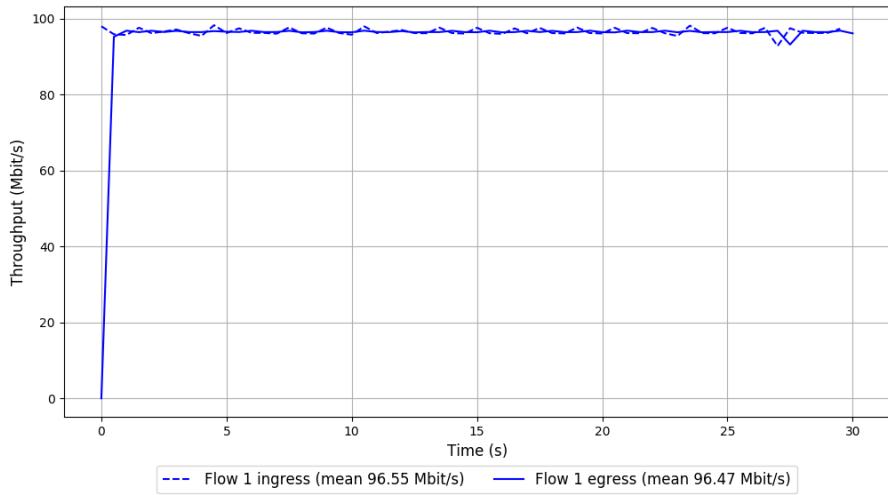


Run 5: Statistics of LEDBAT

```
Start at: 2019-02-05 14:36:55
End at: 2019-02-05 14:37:25
Local clock offset: -4.274 ms
Remote clock offset: 0.374 ms

# Below is generated by plot.py at 2019-02-05 14:59:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 9.682 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 9.682 ms
Loss rate: 0.09%
```

Run 5: Report of LEDBAT — Data Link

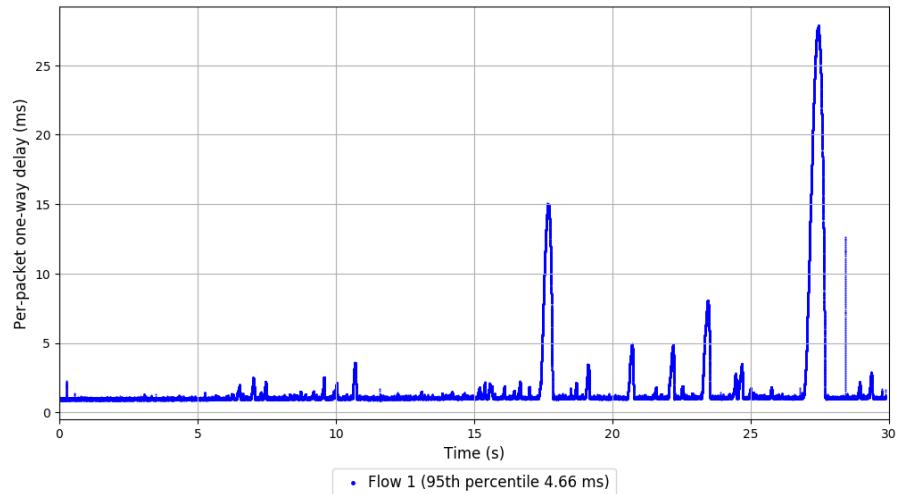
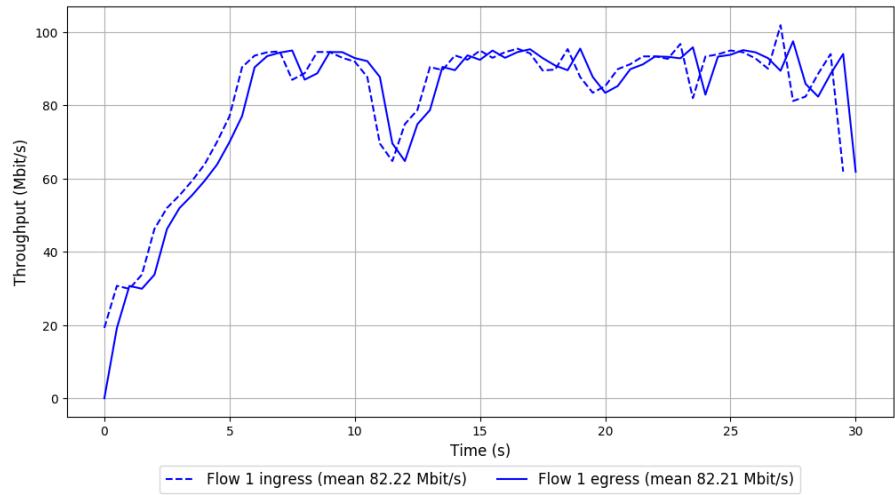


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-02-05 13:14:55
End at: 2019-02-05 13:15:25
Local clock offset: -7.671 ms
Remote clock offset: -0.421 ms

# Below is generated by plot.py at 2019-02-05 14:59:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.21 Mbit/s
95th percentile per-packet one-way delay: 4.662 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 82.21 Mbit/s
95th percentile per-packet one-way delay: 4.662 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Allegro — Data Link

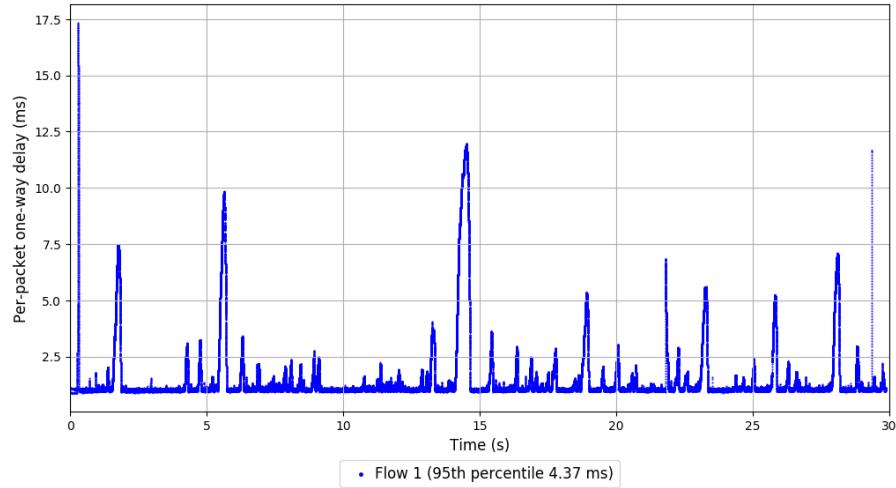
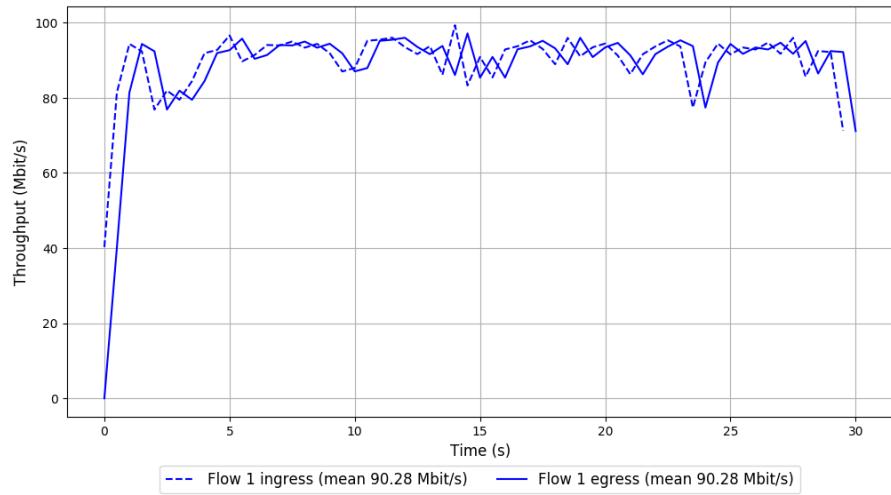


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-02-05 13:38:33
End at: 2019-02-05 13:39:03
Local clock offset: -6.659 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-02-05 14:59:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.28 Mbit/s
95th percentile per-packet one-way delay: 4.374 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 90.28 Mbit/s
95th percentile per-packet one-way delay: 4.374 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Allegro — Data Link

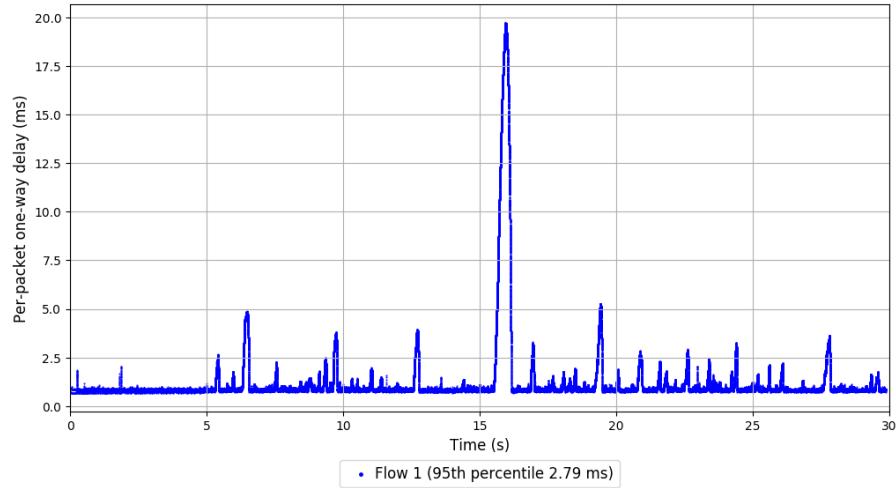
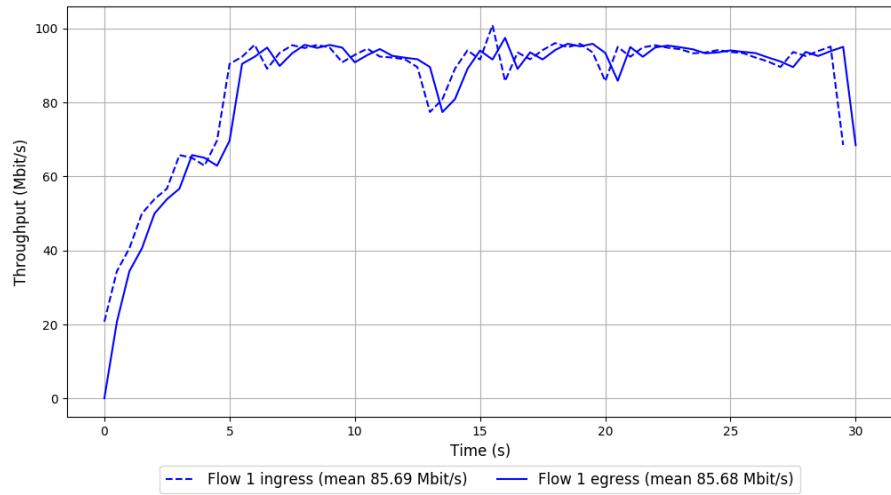


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-02-05 14:02:06
End at: 2019-02-05 14:02:36
Local clock offset: -5.277 ms
Remote clock offset: 0.362 ms

# Below is generated by plot.py at 2019-02-05 15:00:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.68 Mbit/s
95th percentile per-packet one-way delay: 2.794 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.68 Mbit/s
95th percentile per-packet one-way delay: 2.794 ms
Loss rate: 0.01%
```

### Run 3: Report of PCC-Allegro — Data Link

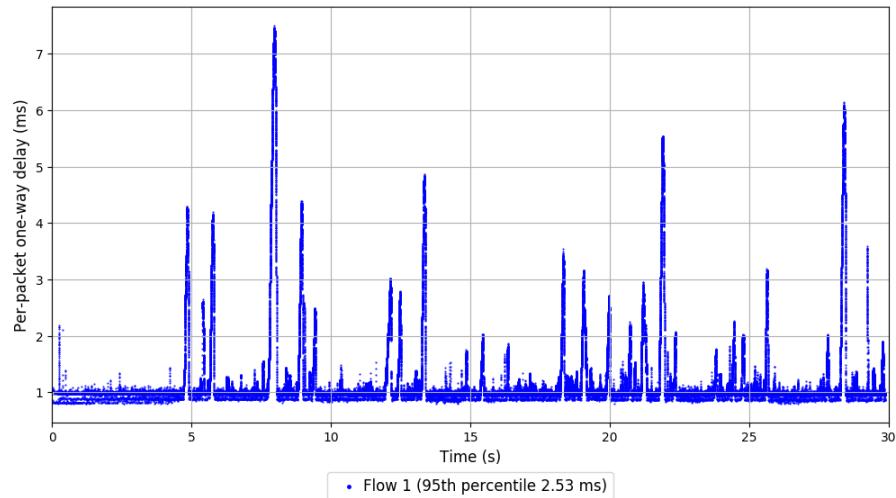
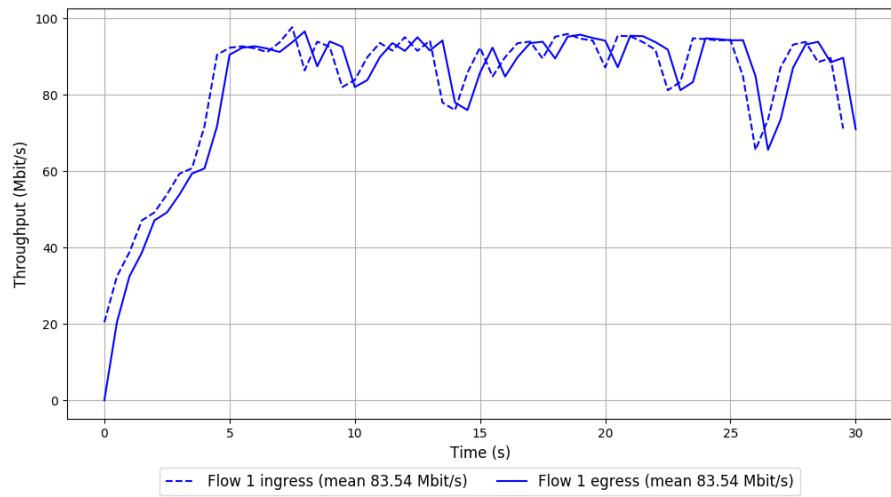


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-02-05 14:25:40
End at: 2019-02-05 14:26:11
Local clock offset: -4.489 ms
Remote clock offset: 0.471 ms

# Below is generated by plot.py at 2019-02-05 15:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 2.529 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 2.529 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Allegro — Data Link

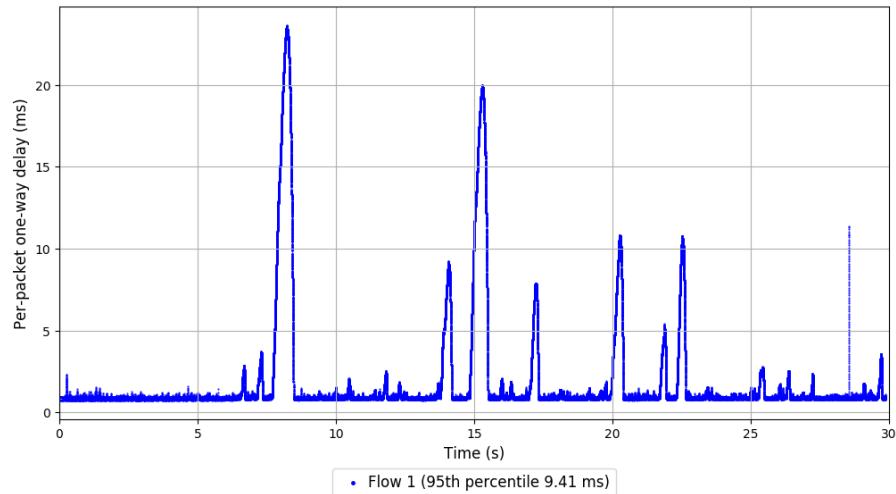
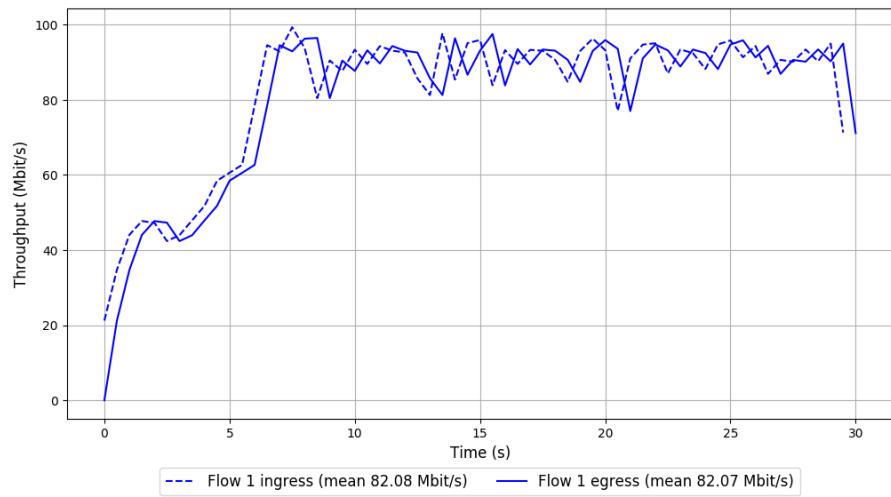


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-02-05 14:49:16
End at: 2019-02-05 14:49:46
Local clock offset: -4.406 ms
Remote clock offset: 0.115 ms

# Below is generated by plot.py at 2019-02-05 15:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.07 Mbit/s
95th percentile per-packet one-way delay: 9.407 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 82.07 Mbit/s
95th percentile per-packet one-way delay: 9.407 ms
Loss rate: 0.02%
```

Run 5: Report of PCC-Allegro — Data Link

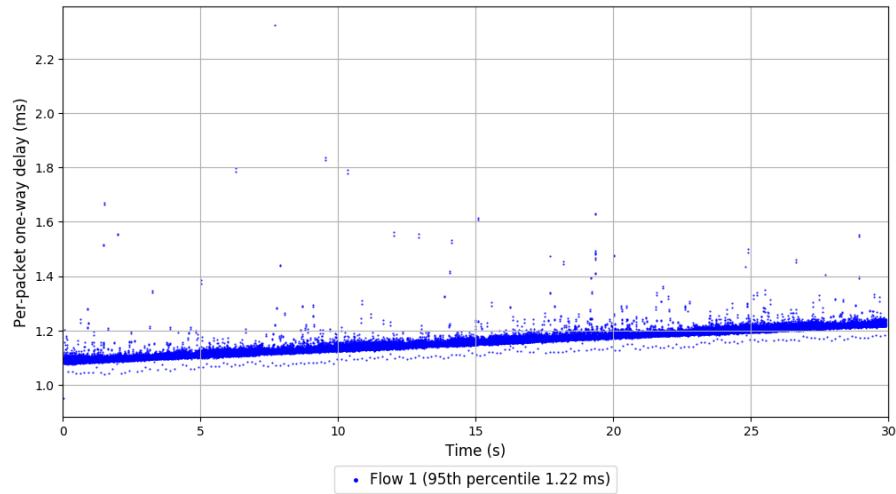
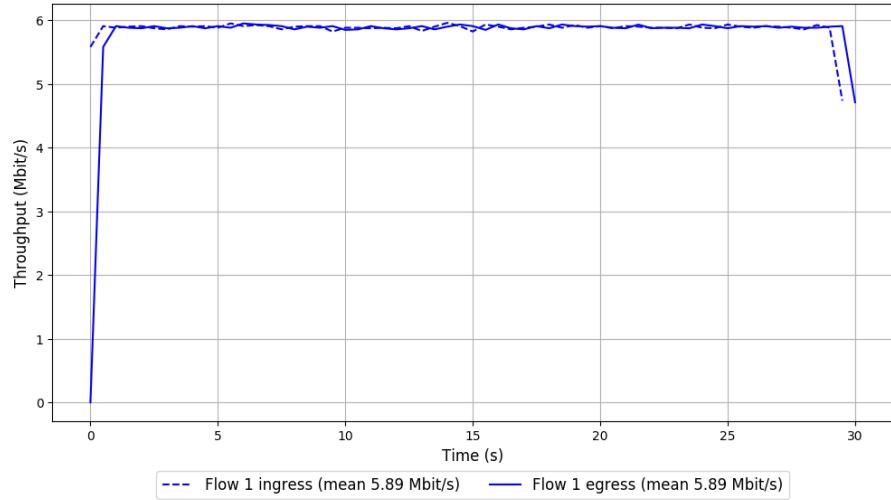


Run 1: Statistics of PCC-Expr

```
Start at: 2019-02-05 13:01:30
End at: 2019-02-05 13:02:00
Local clock offset: -5.049 ms
Remote clock offset: -0.625 ms

# Below is generated by plot.py at 2019-02-05 15:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Expr — Data Link

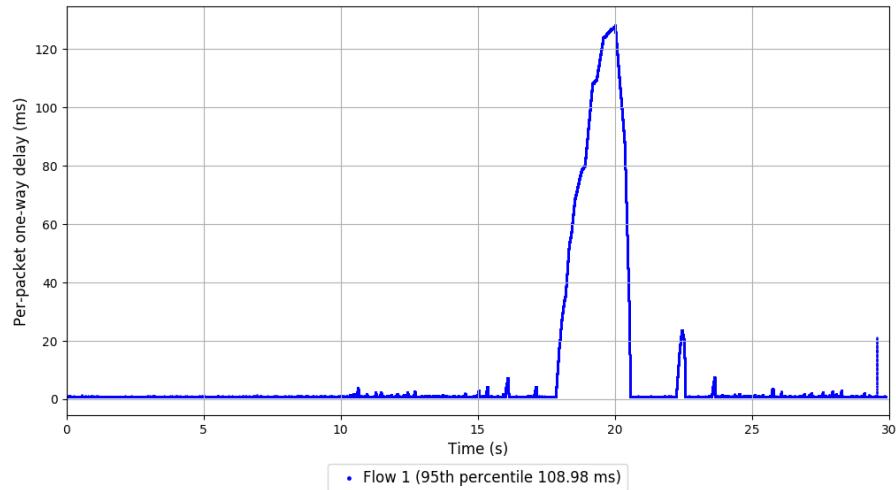
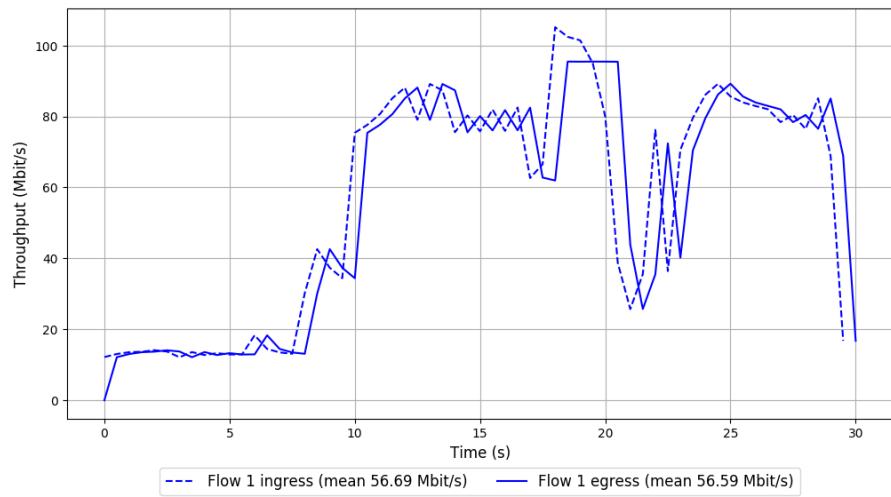


Run 2: Statistics of PCC-Expr

```
Start at: 2019-02-05 13:25:04
End at: 2019-02-05 13:25:34
Local clock offset: -6.583 ms
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2019-02-05 15:00:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.59 Mbit/s
95th percentile per-packet one-way delay: 108.979 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 56.59 Mbit/s
95th percentile per-packet one-way delay: 108.979 ms
Loss rate: 0.19%
```

Run 2: Report of PCC-Expr — Data Link

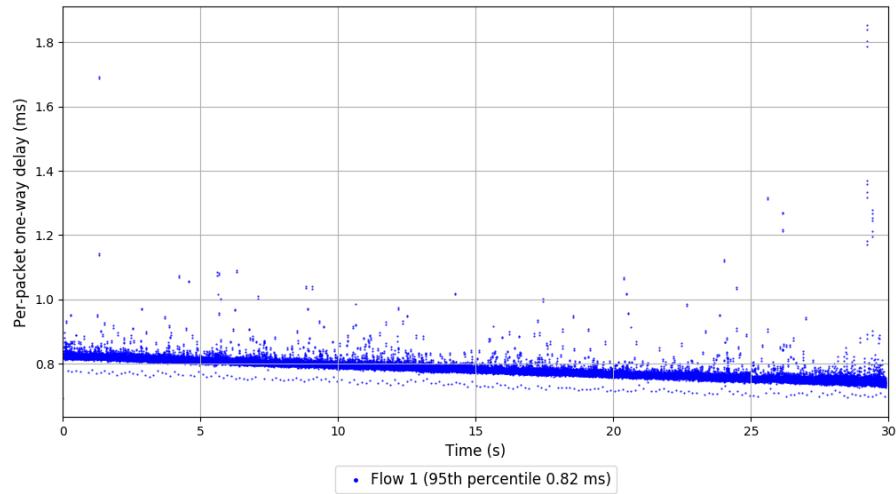
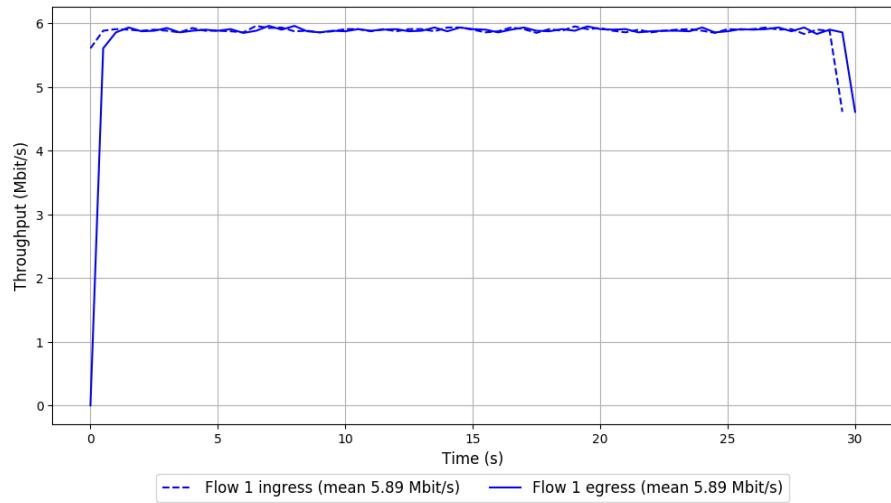


Run 3: Statistics of PCC-Expr

```
Start at: 2019-02-05 13:48:41
End at: 2019-02-05 13:49:11
Local clock offset: -6.379 ms
Remote clock offset: 0.225 ms

# Below is generated by plot.py at 2019-02-05 15:00:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 0.825 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 0.825 ms
Loss rate: 0.01%
```

Run 3: Report of PCC-Expr — Data Link

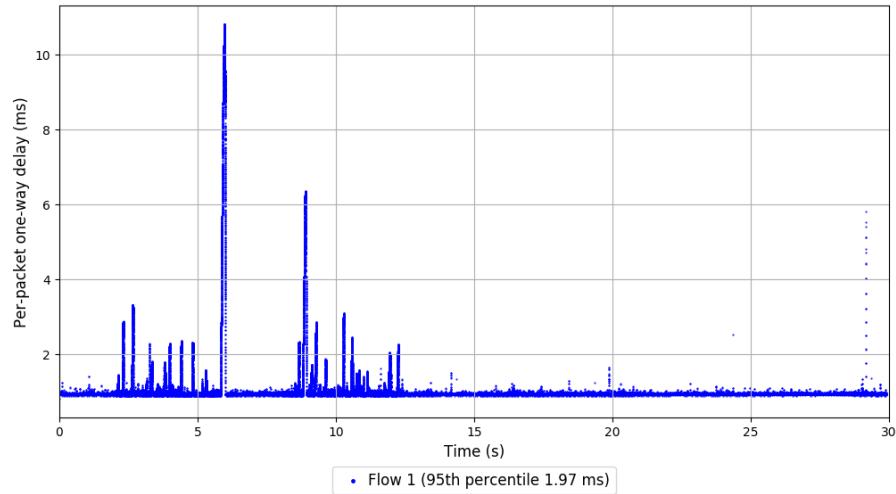
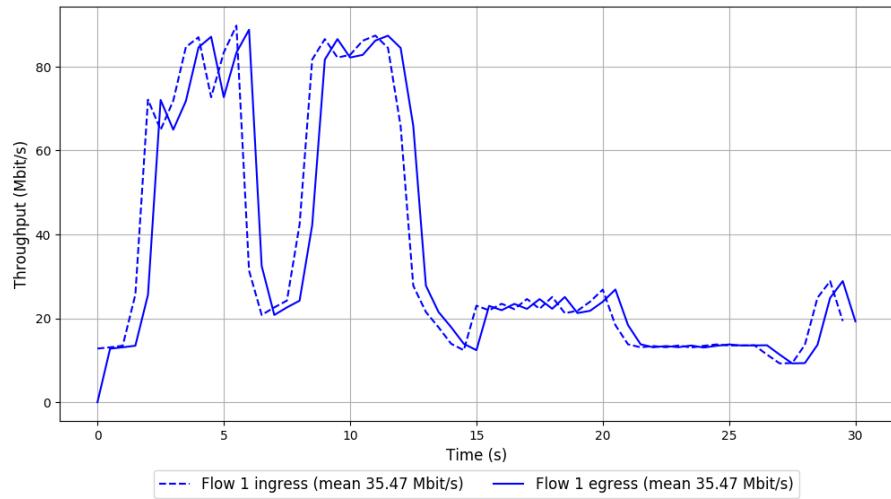


Run 4: Statistics of PCC-Expr

```
Start at: 2019-02-05 14:12:13
End at: 2019-02-05 14:12:43
Local clock offset: -5.278 ms
Remote clock offset: 0.416 ms

# Below is generated by plot.py at 2019-02-05 15:00:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.47 Mbit/s
95th percentile per-packet one-way delay: 1.971 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 35.47 Mbit/s
95th percentile per-packet one-way delay: 1.971 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Expr — Data Link

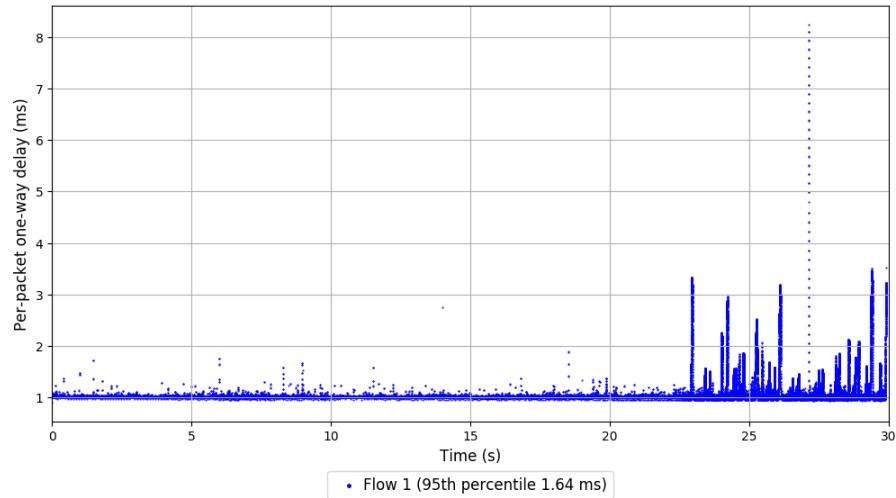
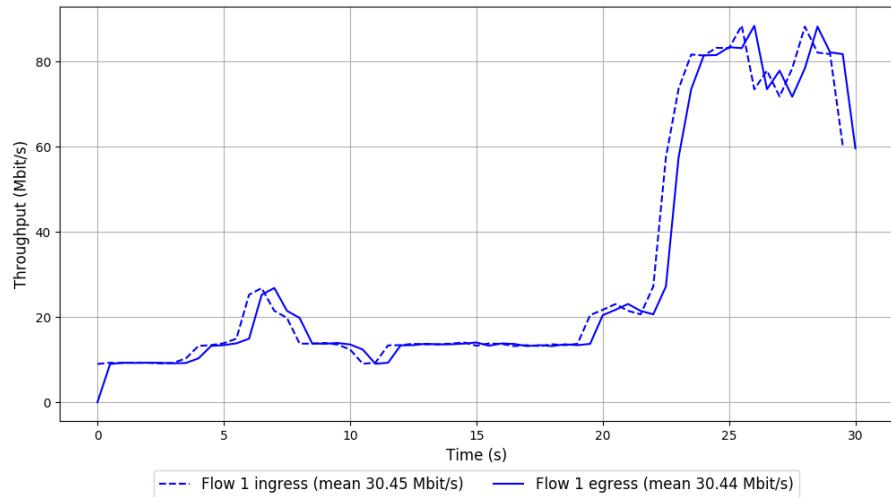


Run 5: Statistics of PCC-Expr

```
Start at: 2019-02-05 14:35:49
End at: 2019-02-05 14:36:19
Local clock offset: -4.292 ms
Remote clock offset: 0.32 ms

# Below is generated by plot.py at 2019-02-05 15:00:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.44 Mbit/s
95th percentile per-packet one-way delay: 1.637 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 30.44 Mbit/s
95th percentile per-packet one-way delay: 1.637 ms
Loss rate: 0.04%
```

Run 5: Report of PCC-Expr — Data Link

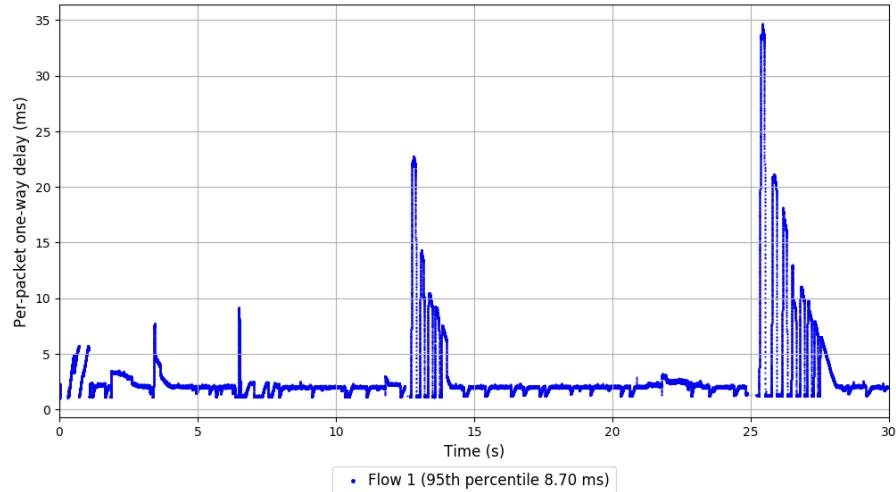
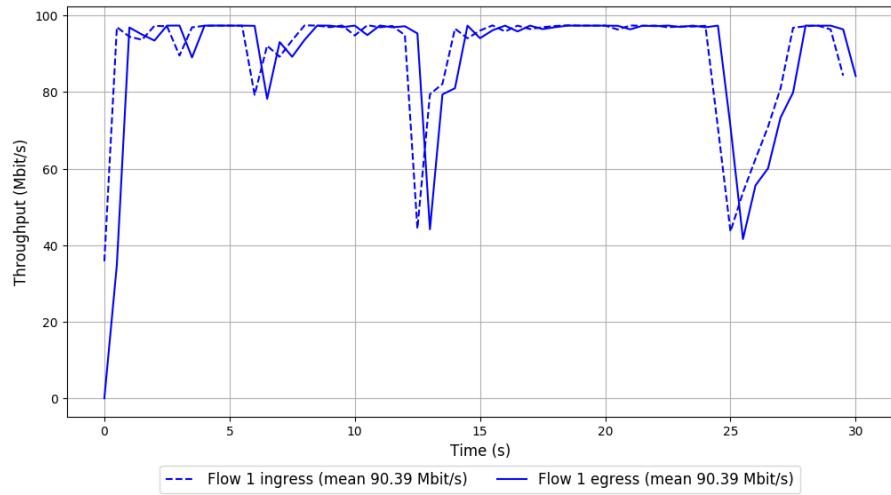


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-02-05 12:59:14
End at: 2019-02-05 12:59:44
Local clock offset: -4.384 ms
Remote clock offset: -0.673 ms

# Below is generated by plot.py at 2019-02-05 15:00:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.39 Mbit/s
95th percentile per-packet one-way delay: 8.699 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 90.39 Mbit/s
95th percentile per-packet one-way delay: 8.699 ms
Loss rate: 0.01%
```

Run 1: Report of QUIC Cubic — Data Link

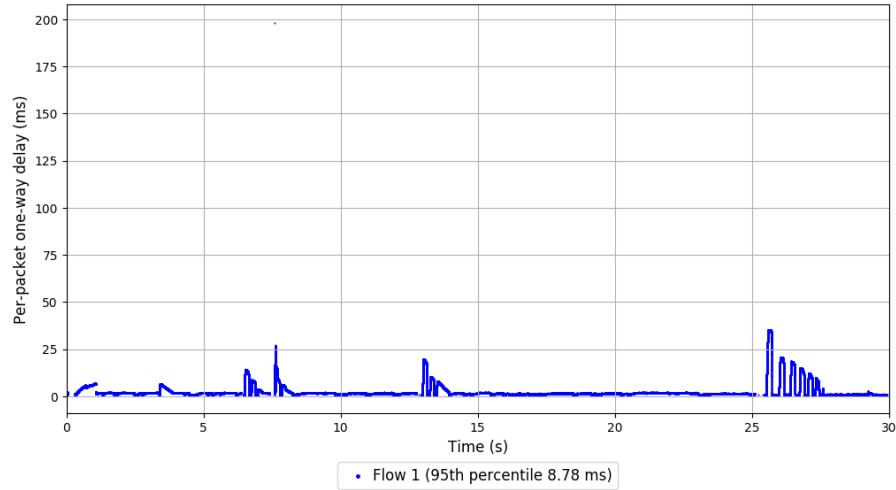
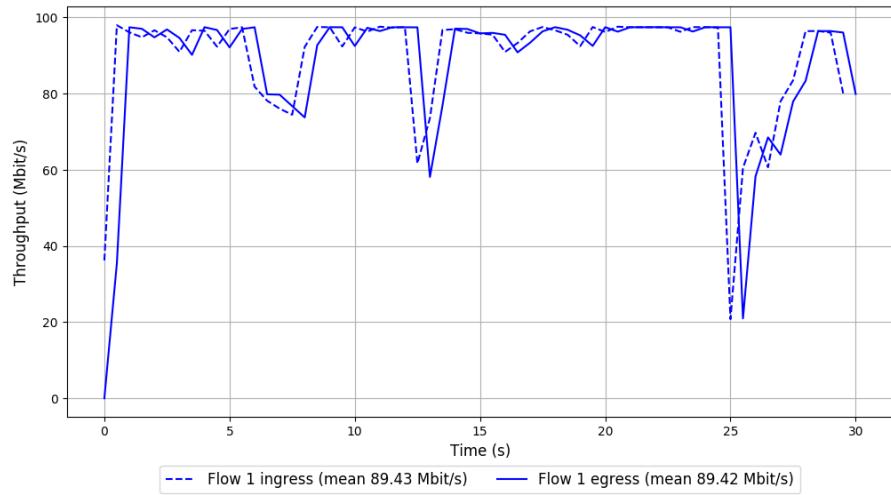


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-02-05 13:22:48
End at: 2019-02-05 13:23:18
Local clock offset: -6.728 ms
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2019-02-05 15:00:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.42 Mbit/s
95th percentile per-packet one-way delay: 8.777 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 89.42 Mbit/s
95th percentile per-packet one-way delay: 8.777 ms
Loss rate: 0.01%
```

## Run 2: Report of QUIC Cubic — Data Link

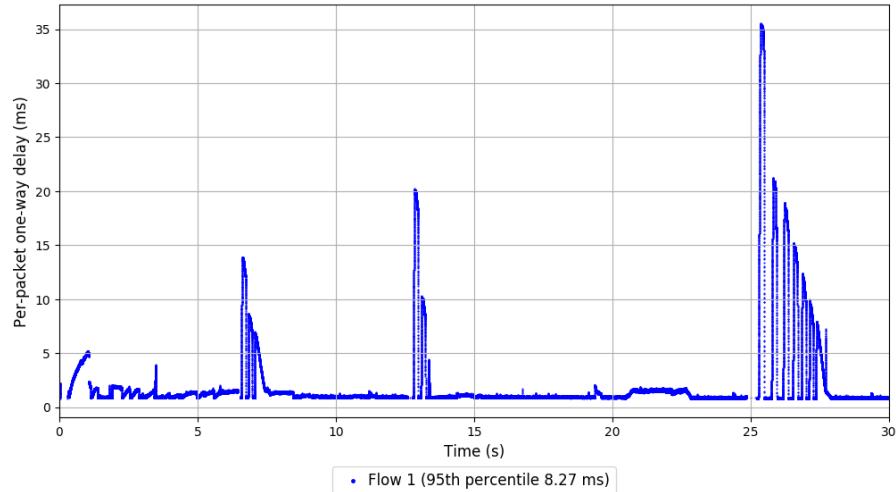
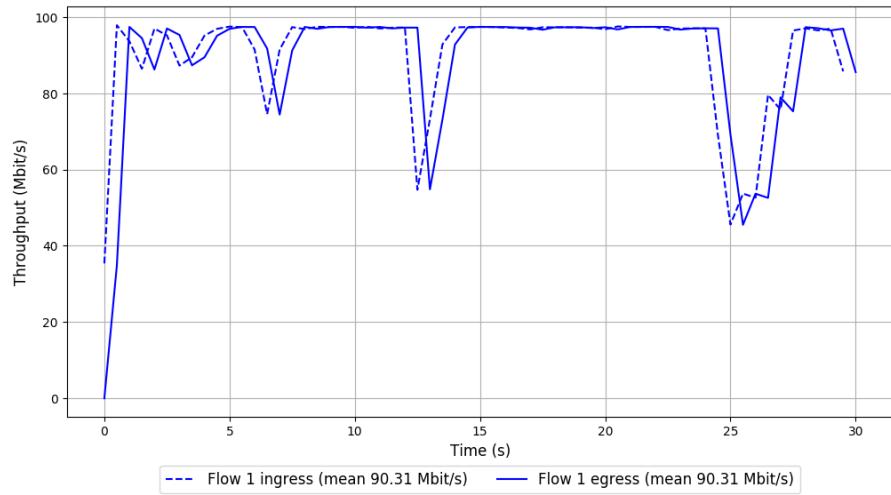


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-02-05 13:46:26
End at: 2019-02-05 13:46:56
Local clock offset: -6.92 ms
Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2019-02-05 15:01:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.31 Mbit/s
95th percentile per-packet one-way delay: 8.268 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 90.31 Mbit/s
95th percentile per-packet one-way delay: 8.268 ms
Loss rate: 0.01%
```

### Run 3: Report of QUIC Cubic — Data Link

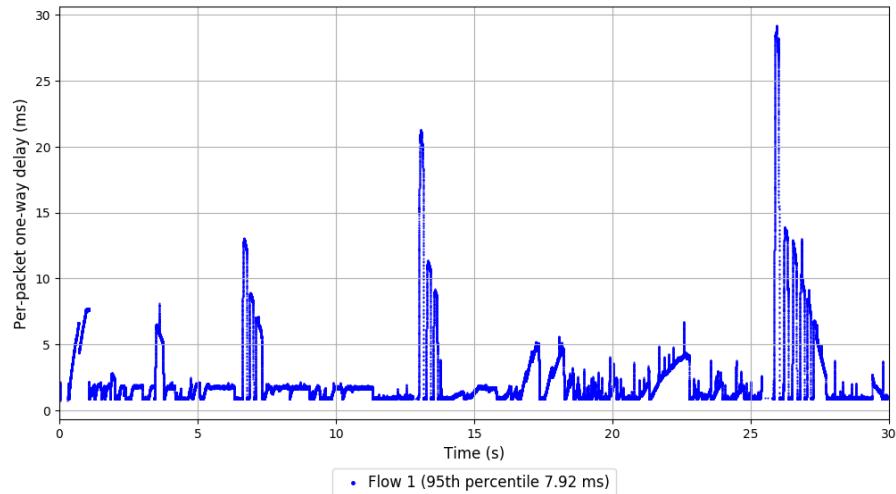
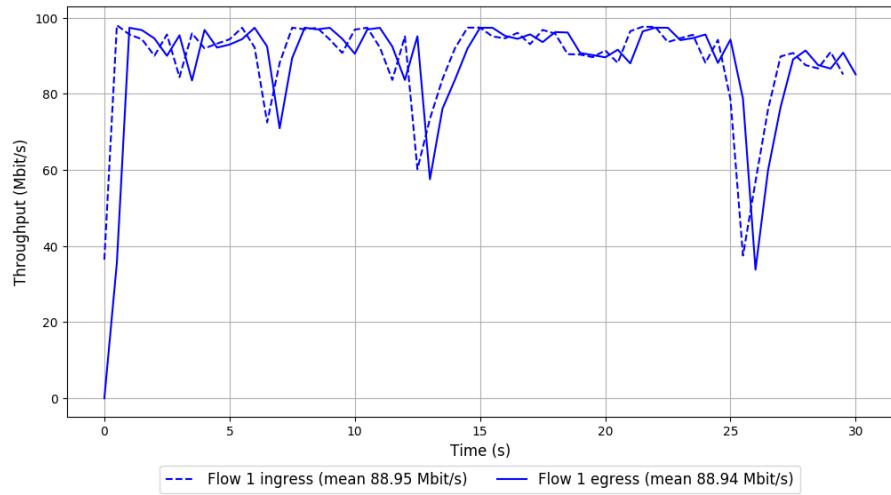


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-02-05 14:09:57
End at: 2019-02-05 14:10:27
Local clock offset: -5.201 ms
Remote clock offset: 0.484 ms

# Below is generated by plot.py at 2019-02-05 15:01:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.94 Mbit/s
95th percentile per-packet one-way delay: 7.919 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.94 Mbit/s
95th percentile per-packet one-way delay: 7.919 ms
Loss rate: 0.01%
```

### Run 4: Report of QUIC Cubic — Data Link

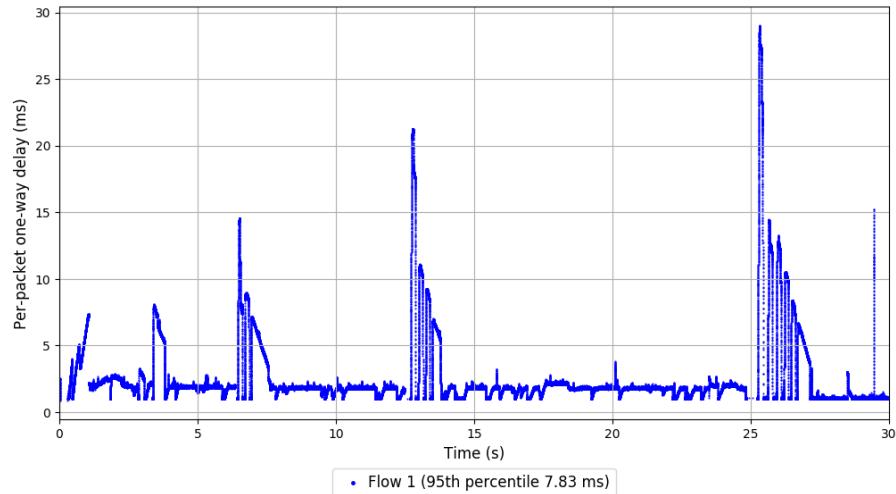
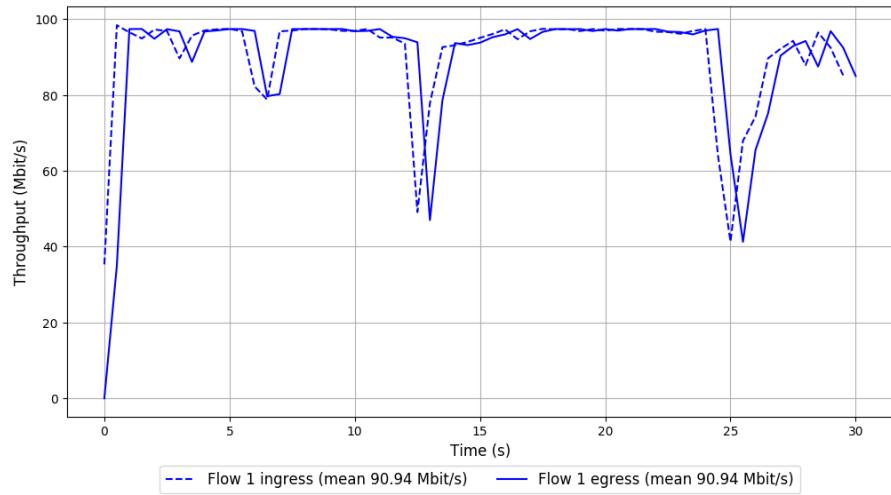


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-02-05 14:33:33
End at: 2019-02-05 14:34:03
Local clock offset: -4.297 ms
Remote clock offset: 0.399 ms

# Below is generated by plot.py at 2019-02-05 15:01:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.94 Mbit/s
95th percentile per-packet one-way delay: 7.828 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 90.94 Mbit/s
95th percentile per-packet one-way delay: 7.828 ms
Loss rate: 0.01%
```

### Run 5: Report of QUIC Cubic — Data Link

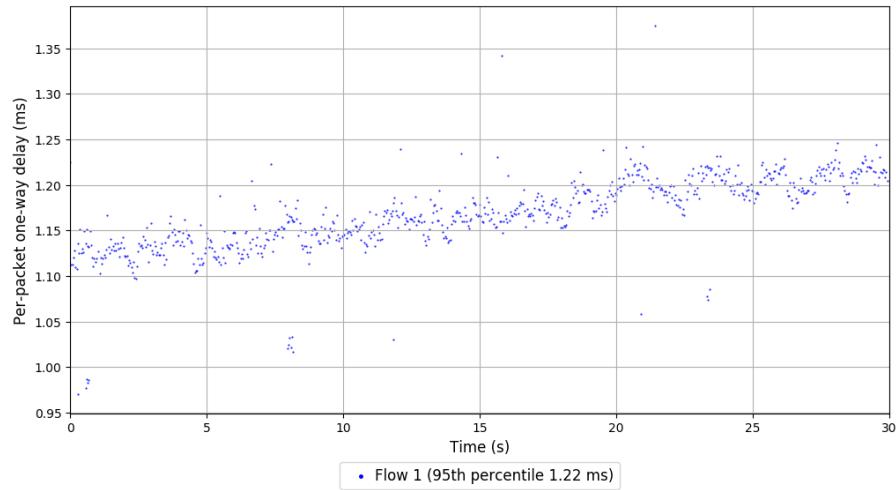
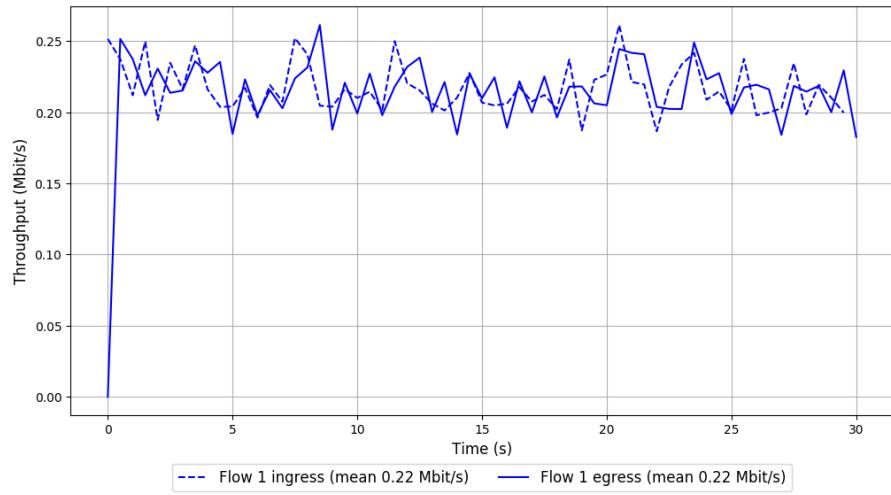


```
Run 1: Statistics of SCReAM

Start at: 2019-02-05 13:07:04
End at: 2019-02-05 13:07:34
Local clock offset: -6.351 ms
Remote clock offset: -0.631 ms

# Below is generated by plot.py at 2019-02-05 15:01:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.221 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.221 ms
Loss rate: 0.13%
```

Run 1: Report of SCReAM — Data Link

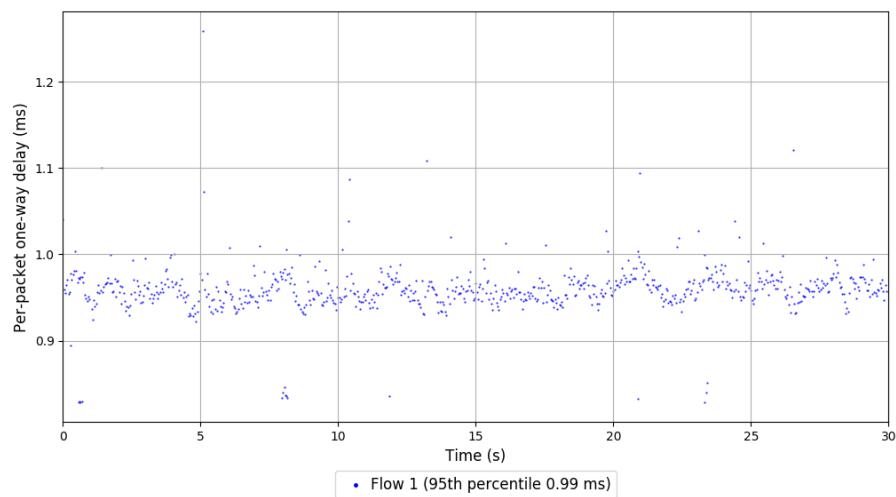
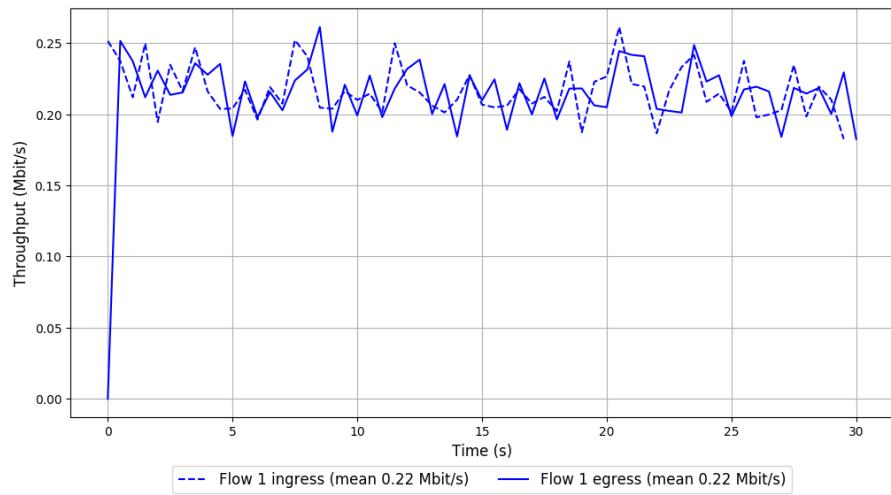


Run 2: Statistics of SCReAM

```
Start at: 2019-02-05 13:30:42
End at: 2019-02-05 13:31:12
Local clock offset: -6.475 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-02-05 15:01:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.993 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.993 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

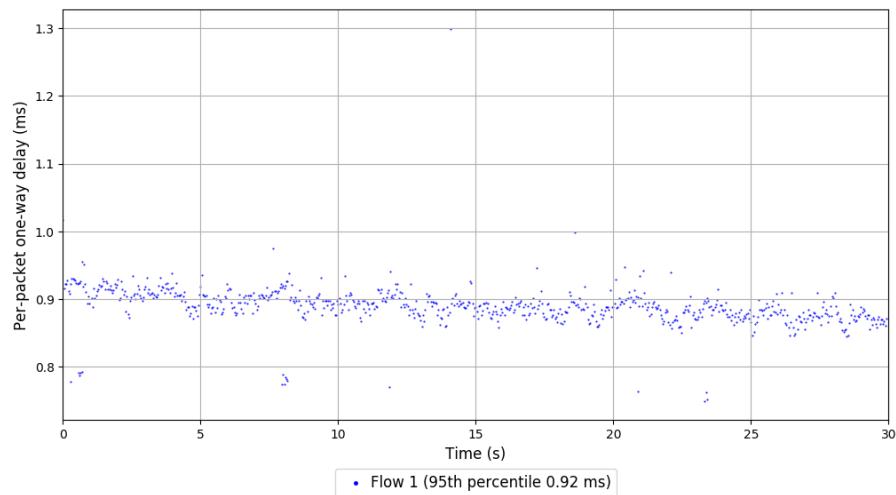
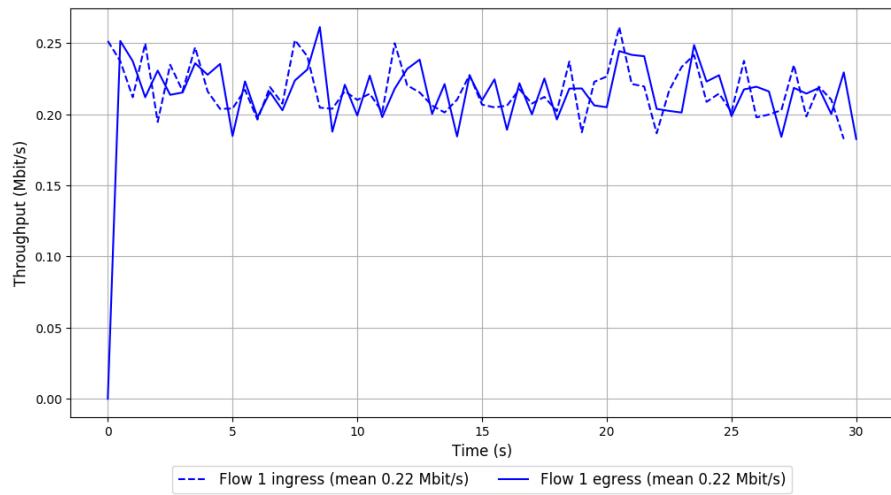


Run 3: Statistics of SCReAM

```
Start at: 2019-02-05 13:54:16
End at: 2019-02-05 13:54:46
Local clock offset: -5.599 ms
Remote clock offset: 0.246 ms

# Below is generated by plot.py at 2019-02-05 15:01:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.924 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.924 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

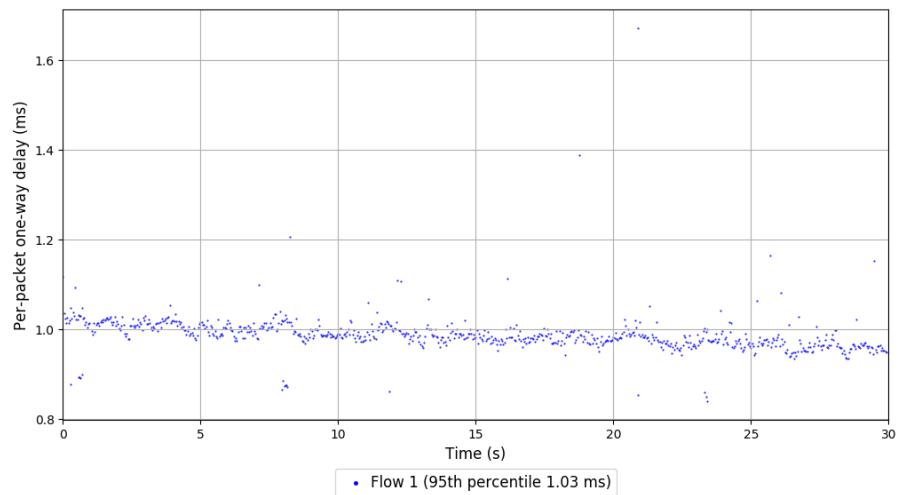
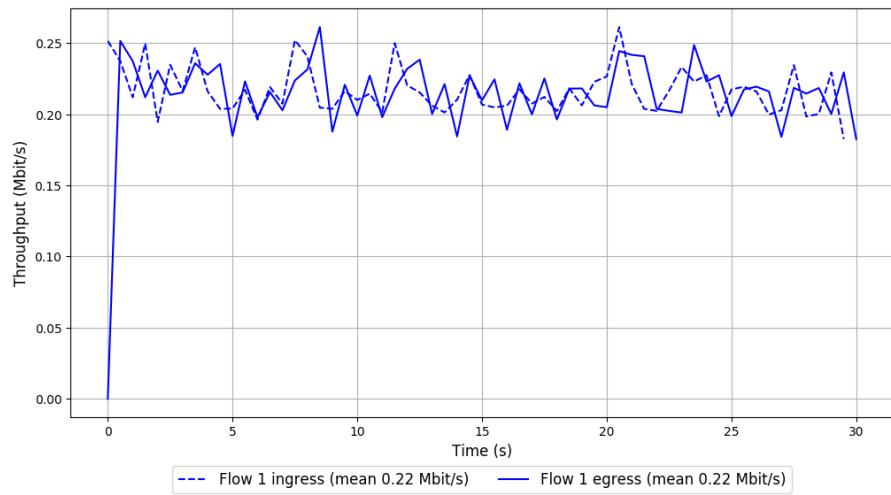


Run 4: Statistics of SCReAM

```
Start at: 2019-02-05 14:17:50
End at: 2019-02-05 14:18:20
Local clock offset: -5.052 ms
Remote clock offset: 0.395 ms

# Below is generated by plot.py at 2019-02-05 15:01:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.026 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.026 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

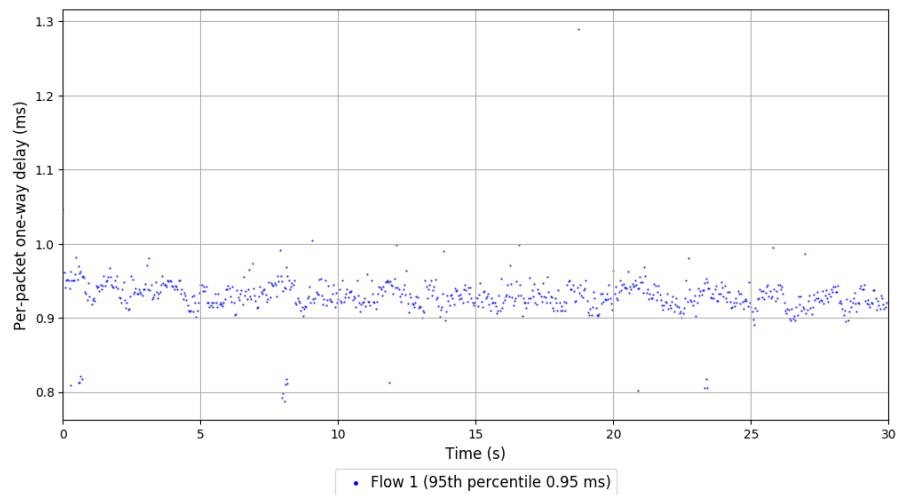
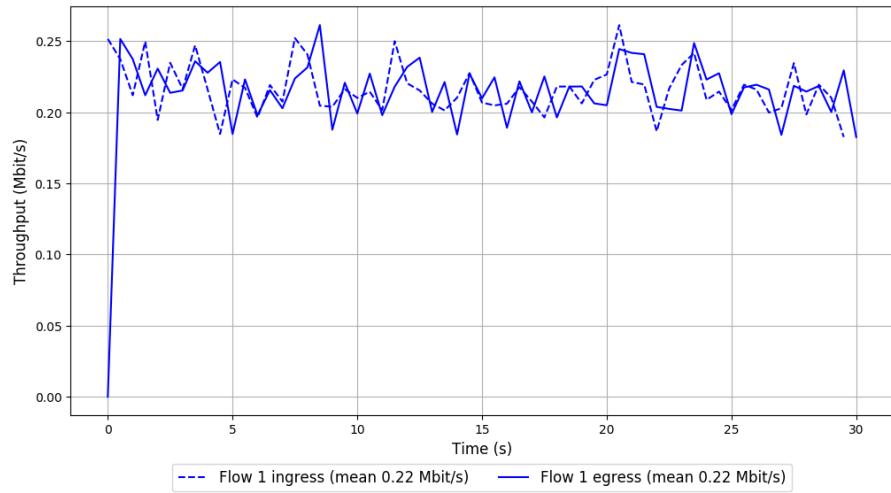


Run 5: Statistics of SCReAM

```
Start at: 2019-02-05 14:41:25
End at: 2019-02-05 14:41:55
Local clock offset: -4.246 ms
Remote clock offset: 0.283 ms

# Below is generated by plot.py at 2019-02-05 15:01:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.955 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.955 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

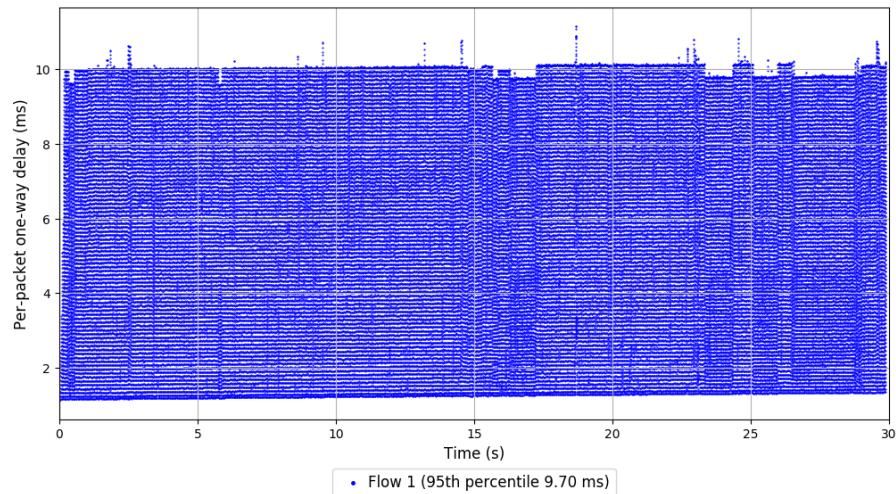
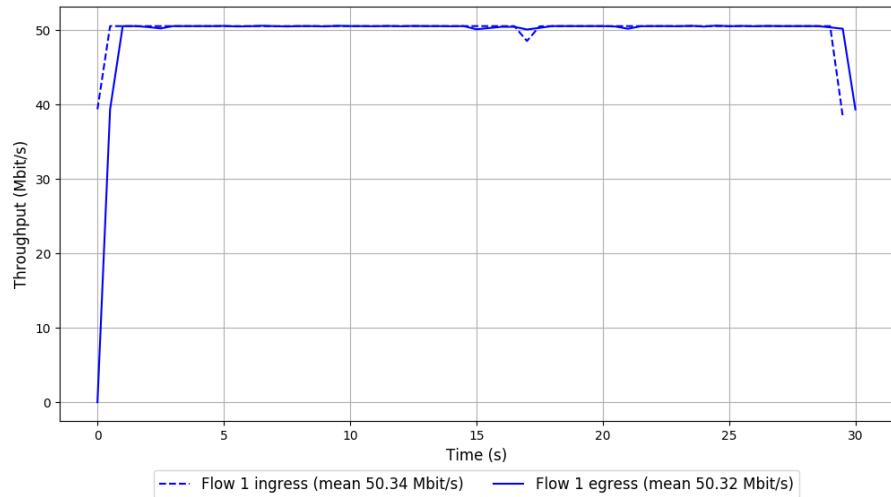


Run 1: Statistics of Sprout

```
Start at: 2019-02-05 12:57:01
End at: 2019-02-05 12:57:31
Local clock offset: -3.516 ms
Remote clock offset: -0.647 ms

# Below is generated by plot.py at 2019-02-05 15:01:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.32 Mbit/s
95th percentile per-packet one-way delay: 9.695 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.32 Mbit/s
95th percentile per-packet one-way delay: 9.695 ms
Loss rate: 0.00%
```

## Run 1: Report of Sprout — Data Link

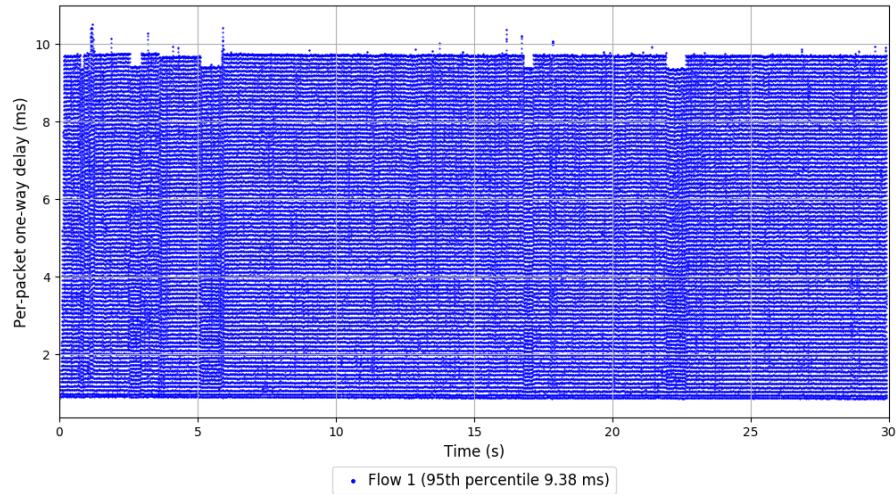
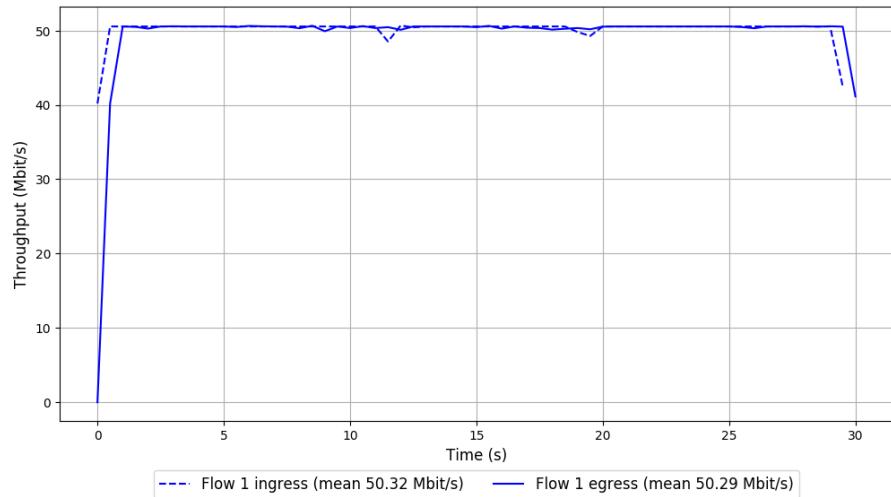


Run 2: Statistics of Sprout

```
Start at: 2019-02-05 13:20:35
End at: 2019-02-05 13:21:05
Local clock offset: -6.969 ms
Remote clock offset: -0.252 ms

# Below is generated by plot.py at 2019-02-05 15:01:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.29 Mbit/s
95th percentile per-packet one-way delay: 9.377 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 50.29 Mbit/s
95th percentile per-packet one-way delay: 9.377 ms
Loss rate: 0.05%
```

## Run 2: Report of Sprout — Data Link

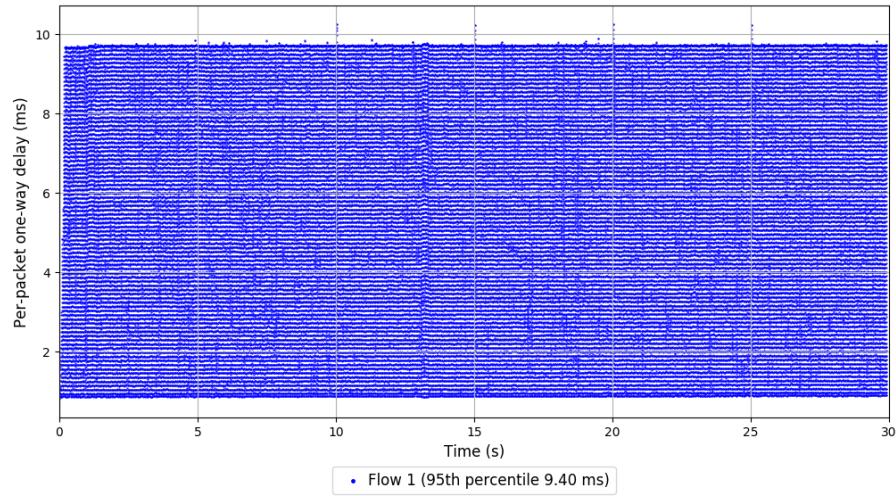
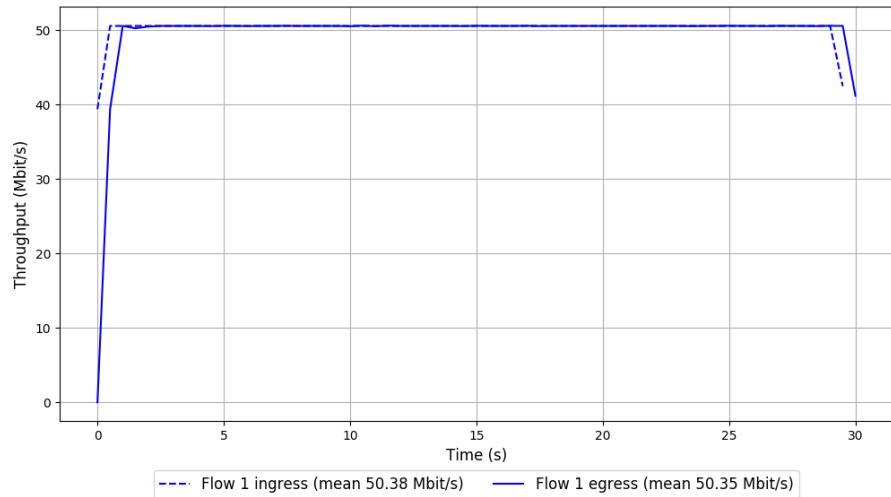


Run 3: Statistics of Sprout

```
Start at: 2019-02-05 13:44:12
End at: 2019-02-05 13:44:42
Local clock offset: -6.958 ms
Remote clock offset: 0.189 ms

# Below is generated by plot.py at 2019-02-05 15:01:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.35 Mbit/s
95th percentile per-packet one-way delay: 9.402 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 50.35 Mbit/s
95th percentile per-packet one-way delay: 9.402 ms
Loss rate: 0.06%
```

### Run 3: Report of Sprout — Data Link

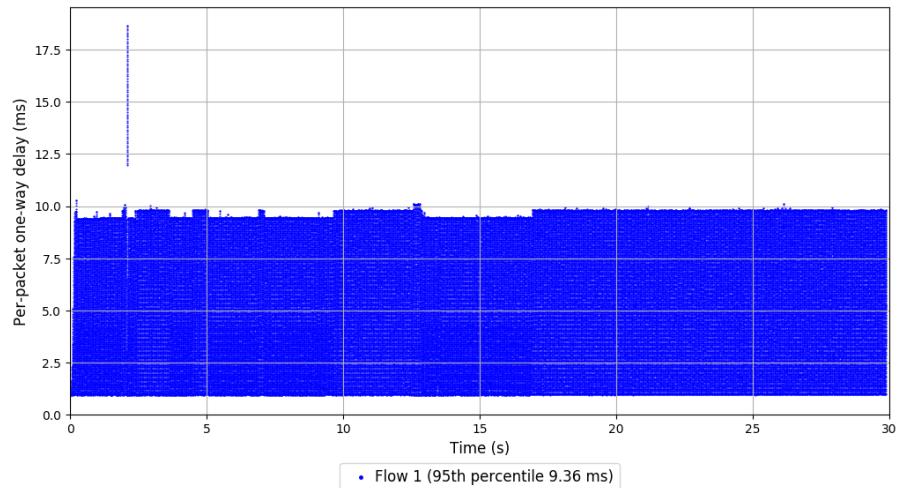
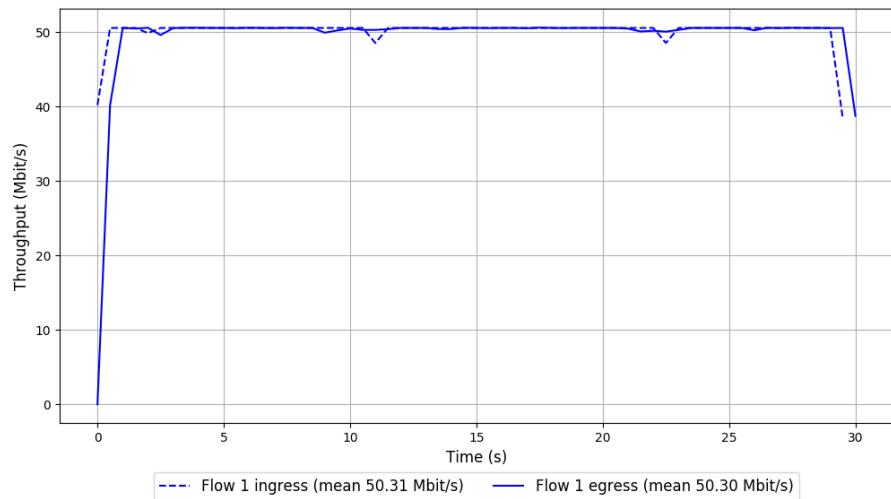


Run 4: Statistics of Sprout

```
Start at: 2019-02-05 14:07:44
End at: 2019-02-05 14:08:14
Local clock offset: -5.164 ms
Remote clock offset: 0.441 ms

# Below is generated by plot.py at 2019-02-05 15:01:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 9.363 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 9.363 ms
Loss rate: 0.00%
```

## Run 4: Report of Sprout — Data Link

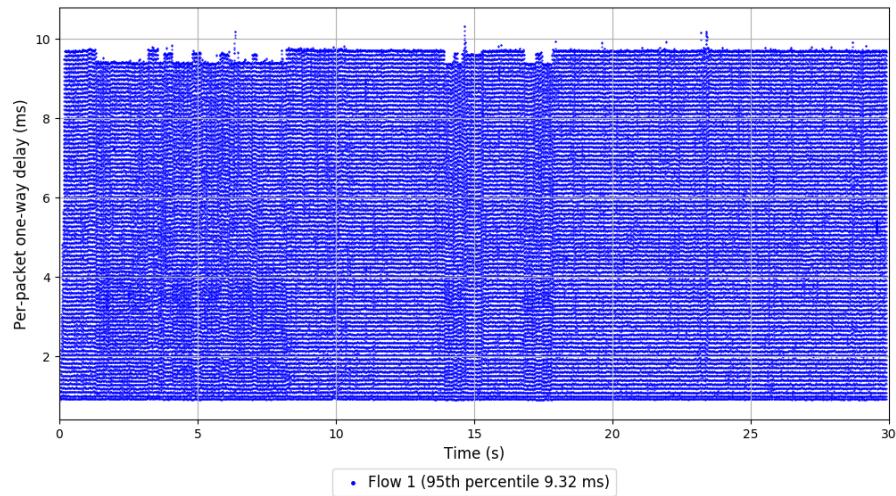
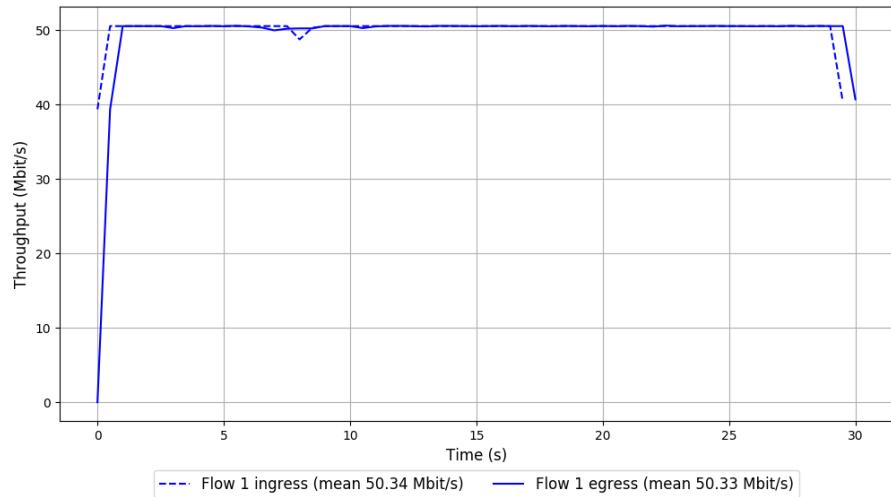


Run 5: Statistics of Sprout

```
Start at: 2019-02-05 14:31:20
End at: 2019-02-05 14:31:50
Local clock offset: -4.344 ms
Remote clock offset: 0.51 ms

# Below is generated by plot.py at 2019-02-05 15:01:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 9.320 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 9.320 ms
Loss rate: 0.00%
```

## Run 5: Report of Sprout — Data Link

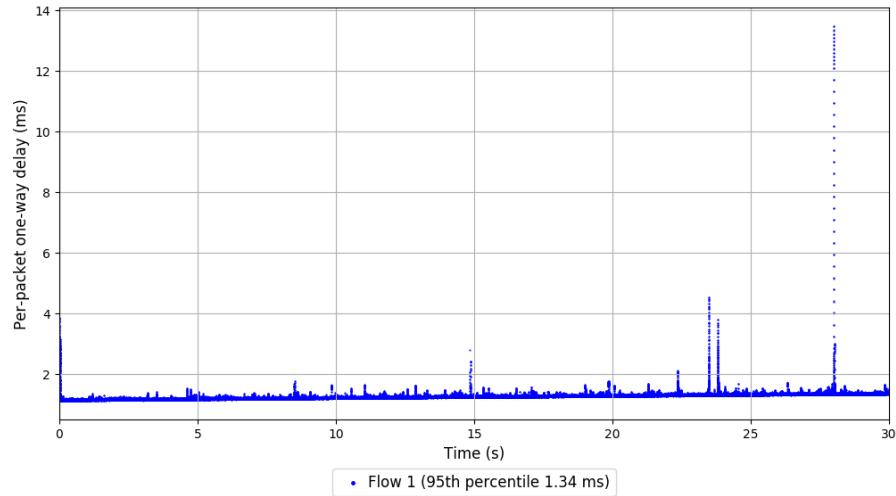
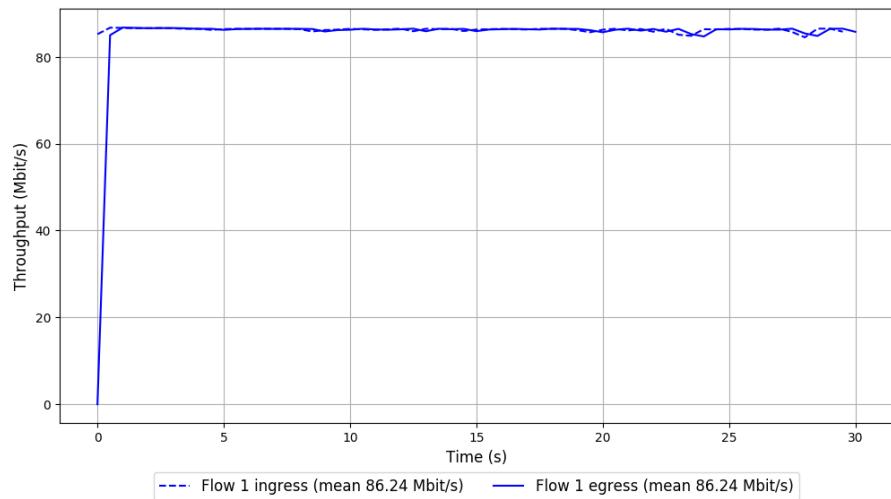


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-02-05 12:55:50
End at: 2019-02-05 12:56:20
Local clock offset: -2.97 ms
Remote clock offset: -0.598 ms

# Below is generated by plot.py at 2019-02-05 15:02:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.24 Mbit/s
95th percentile per-packet one-way delay: 1.341 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.24 Mbit/s
95th percentile per-packet one-way delay: 1.341 ms
Loss rate: 0.01%
```

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

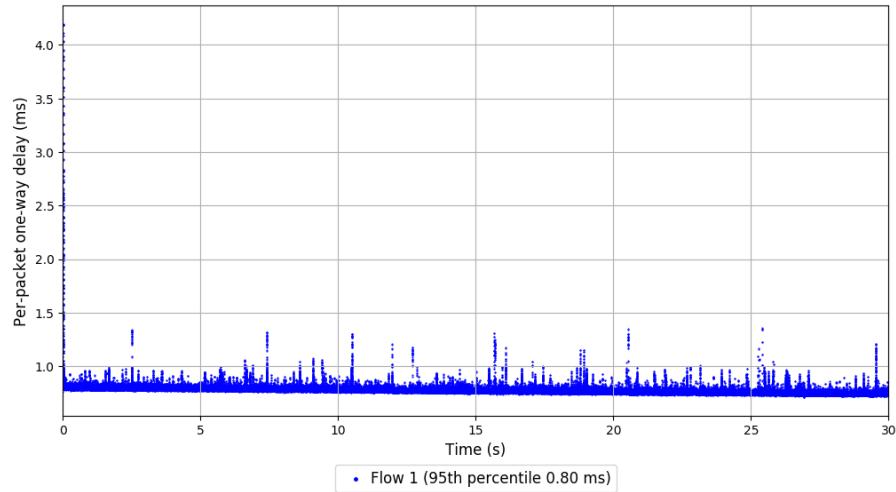
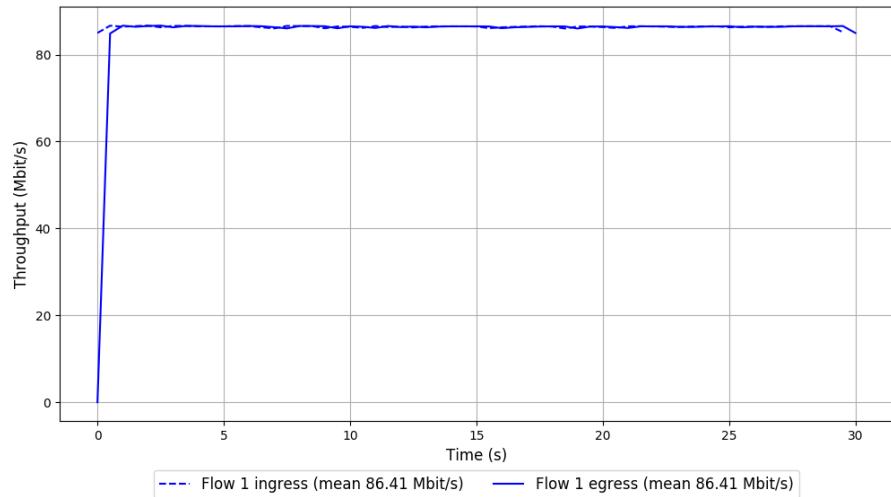


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-02-05 13:19:24
End at: 2019-02-05 13:19:54
Local clock offset: -7.209 ms
Remote clock offset: -0.272 ms

# Below is generated by plot.py at 2019-02-05 15:02:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.41 Mbit/s
95th percentile per-packet one-way delay: 0.802 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.41 Mbit/s
95th percentile per-packet one-way delay: 0.802 ms
Loss rate: 0.01%
```

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

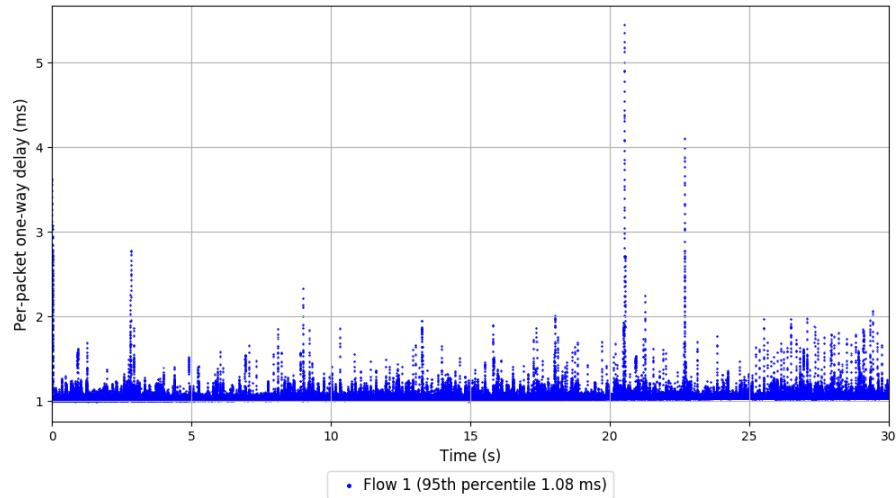
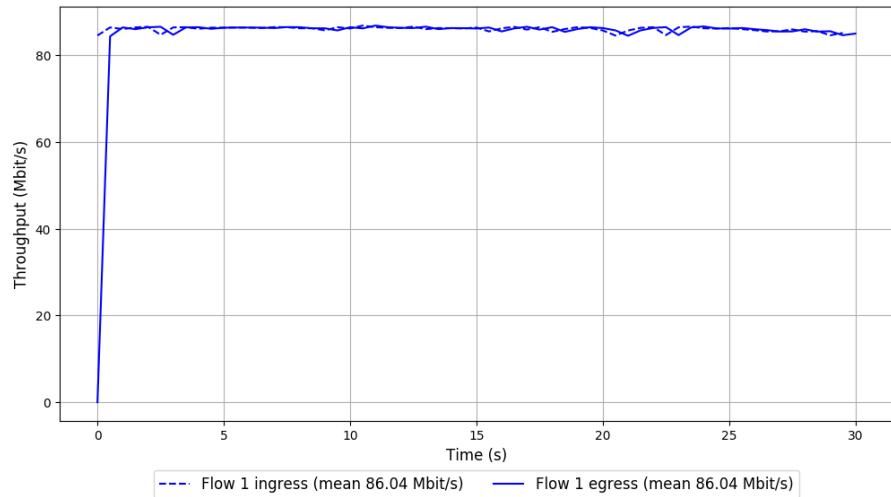


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-02-05 13:43:02
End at: 2019-02-05 13:43:32
Local clock offset: -6.838 ms
Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2019-02-05 15:03:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.04 Mbit/s
95th percentile per-packet one-way delay: 1.083 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.04 Mbit/s
95th percentile per-packet one-way delay: 1.083 ms
Loss rate: 0.01%
```

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

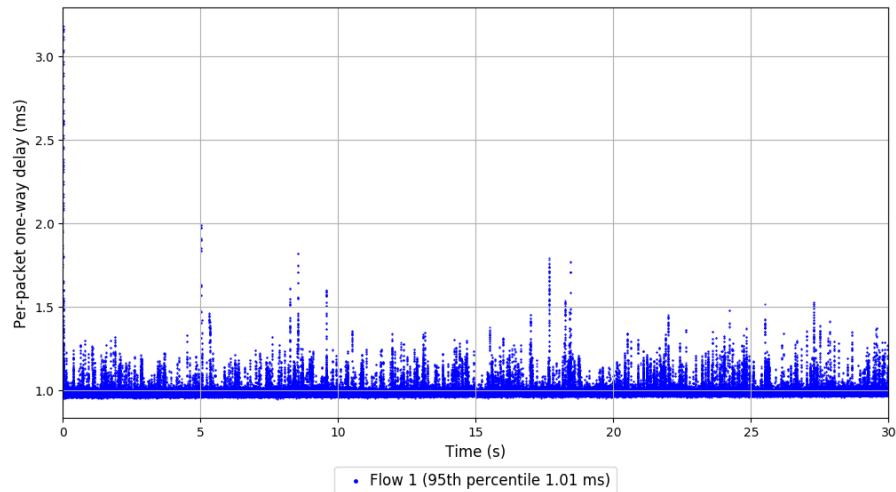
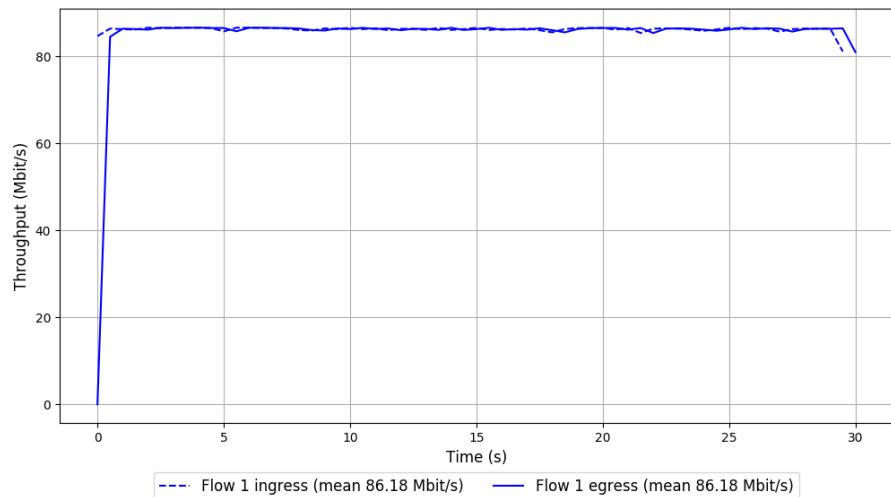


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-02-05 14:06:33
End at: 2019-02-05 14:07:03
Local clock offset: -5.17 ms
Remote clock offset: 0.363 ms

# Below is generated by plot.py at 2019-02-05 15:03:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.18 Mbit/s
95th percentile per-packet one-way delay: 1.015 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.18 Mbit/s
95th percentile per-packet one-way delay: 1.015 ms
Loss rate: 0.01%
```

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

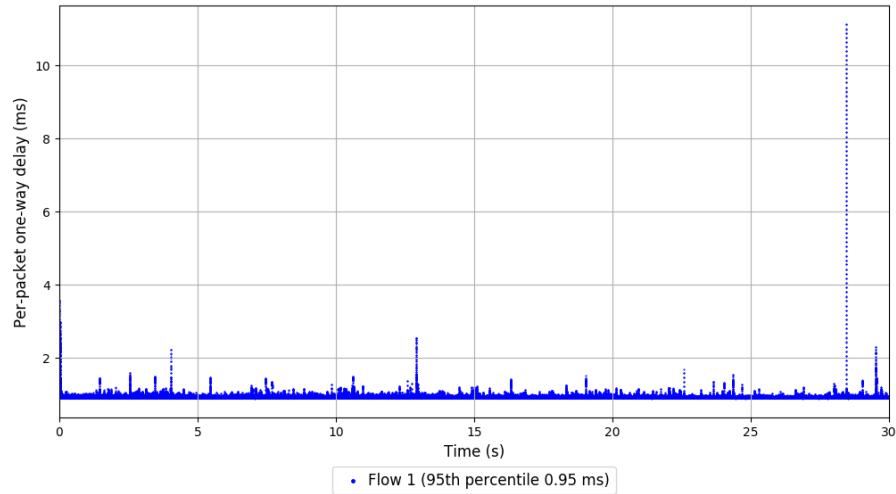
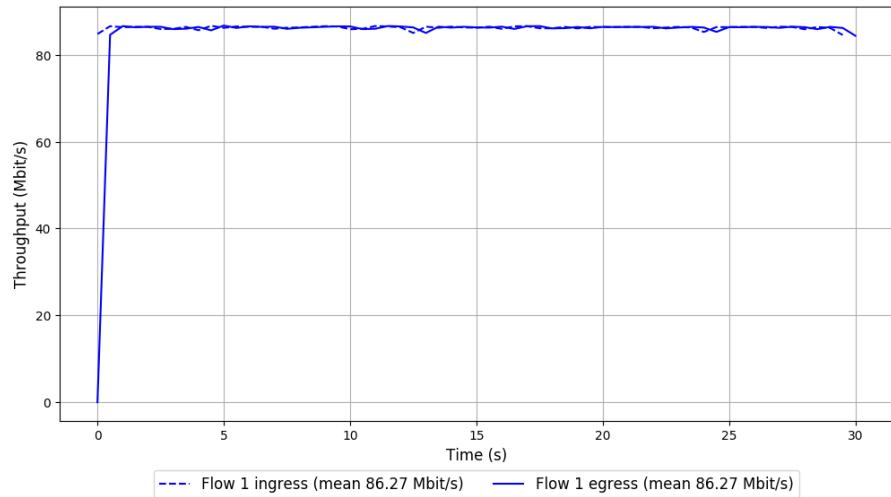


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-02-05 14:30:09
End at: 2019-02-05 14:30:39
Local clock offset: -4.369 ms
Remote clock offset: 0.48 ms

# Below is generated by plot.py at 2019-02-05 15:03:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 0.949 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 0.949 ms
Loss rate: 0.01%
```

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

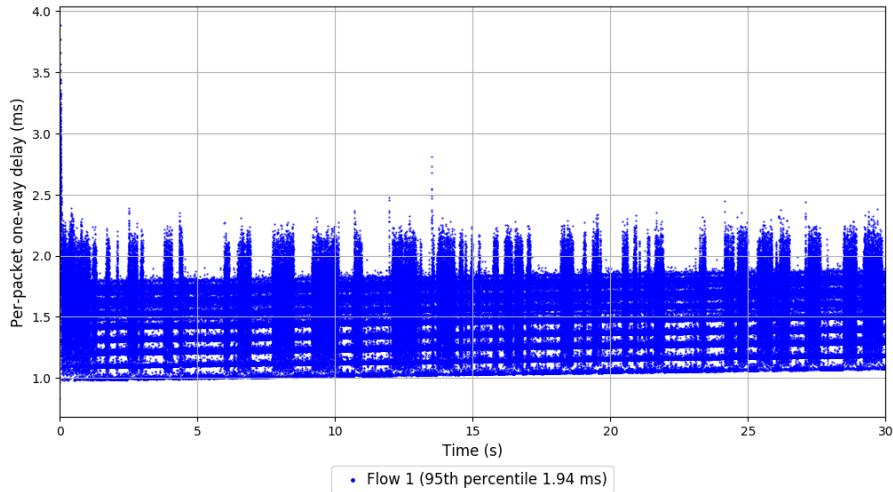
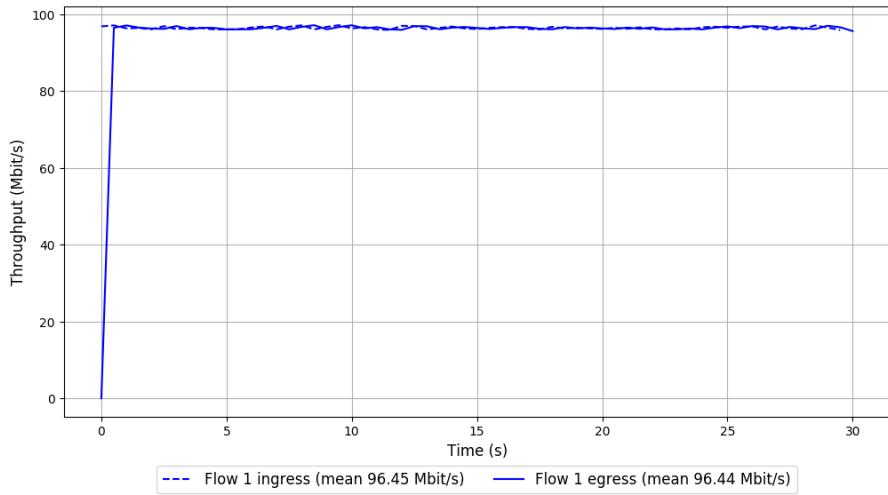


Run 1: Statistics of TCP Vegas

```
Start at: 2019-02-05 13:10:20
End at: 2019-02-05 13:10:50
Local clock offset: -6.943 ms
Remote clock offset: -0.428 ms

# Below is generated by plot.py at 2019-02-05 15:03:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 1.943 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 1.943 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Vegas — Data Link

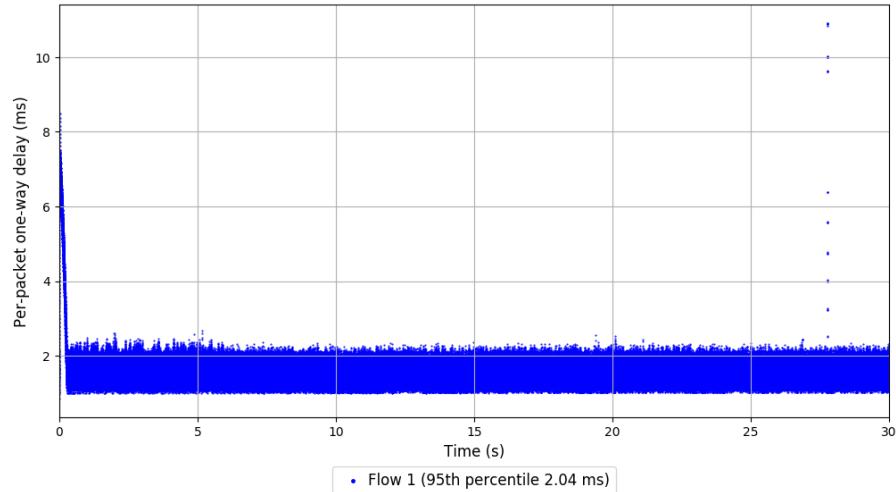
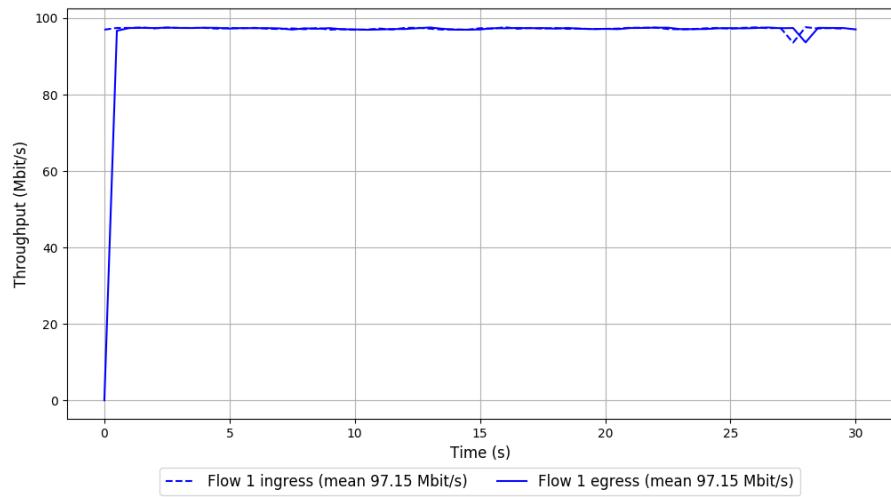


Run 2: Statistics of TCP Vegas

```
Start at: 2019-02-05 13:33:58
End at: 2019-02-05 13:34:28
Local clock offset: -6.499 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-02-05 15:03:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 2.040 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 2.040 ms
Loss rate: 0.01%
```

## Run 2: Report of TCP Vegas — Data Link

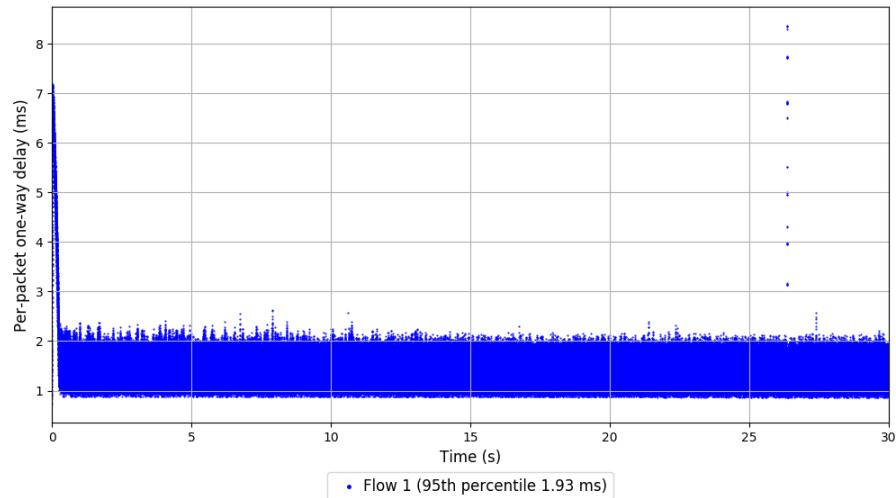
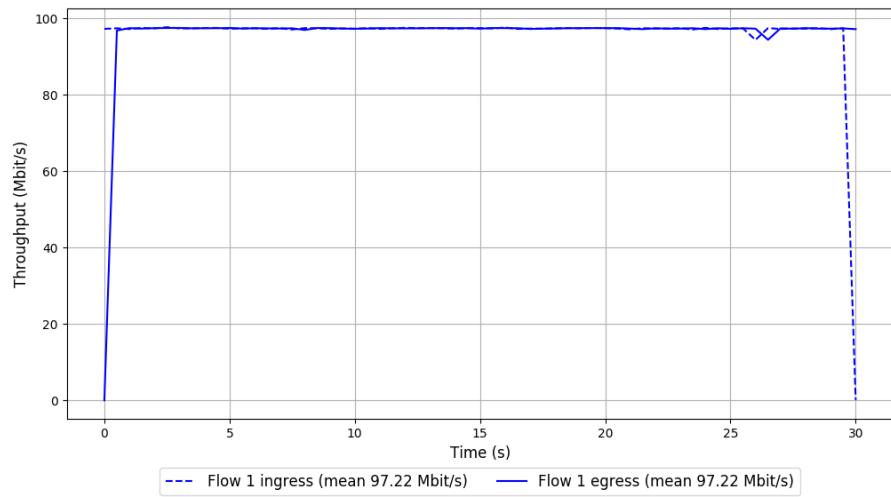


Run 3: Statistics of TCP Vegas

```
Start at: 2019-02-05 13:57:32
End at: 2019-02-05 13:58:02
Local clock offset: -5.417 ms
Remote clock offset: 0.281 ms

# Below is generated by plot.py at 2019-02-05 15:03:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 1.925 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 1.925 ms
Loss rate: 0.01%
```

### Run 3: Report of TCP Vegas — Data Link

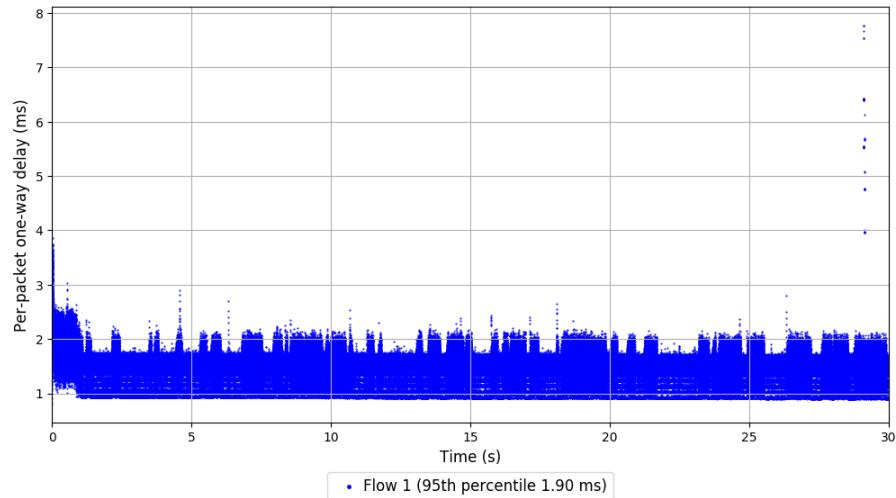
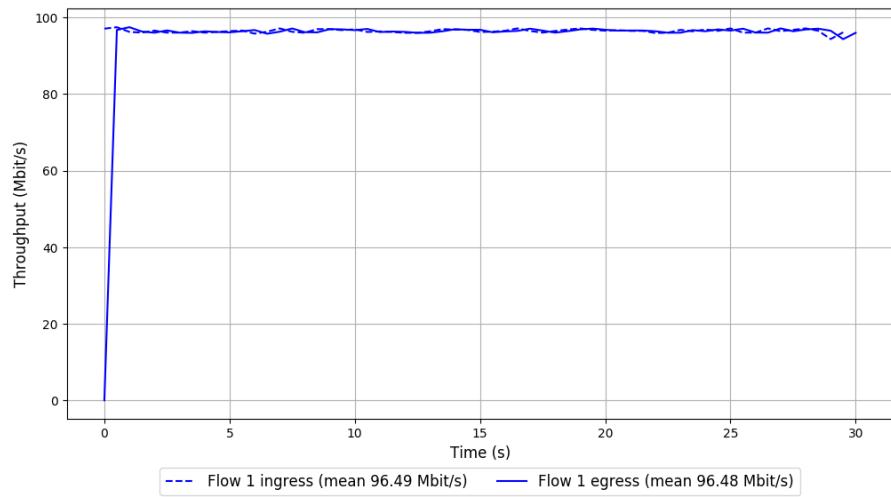


Run 4: Statistics of TCP Vegas

```
Start at: 2019-02-05 14:21:06
End at: 2019-02-05 14:21:36
Local clock offset: -4.755 ms
Remote clock offset: 0.501 ms

# Below is generated by plot.py at 2019-02-05 15:03:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 1.896 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 1.896 ms
Loss rate: 0.01%
```

### Run 4: Report of TCP Vegas — Data Link

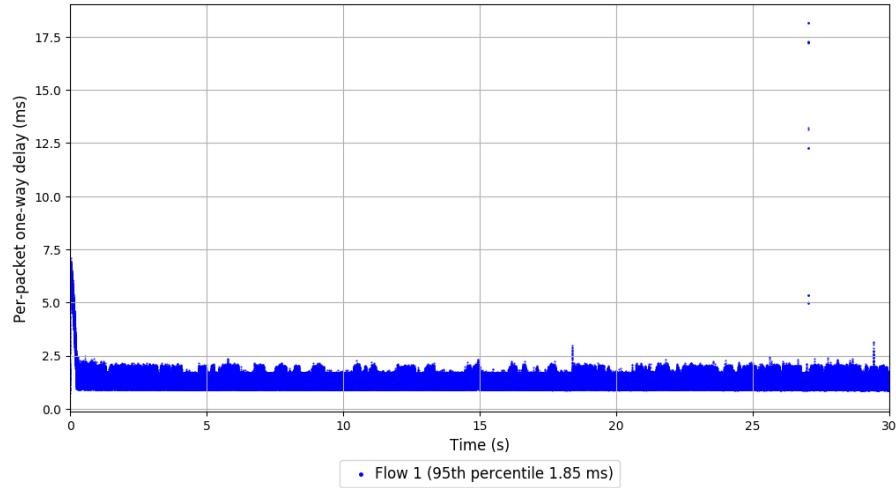
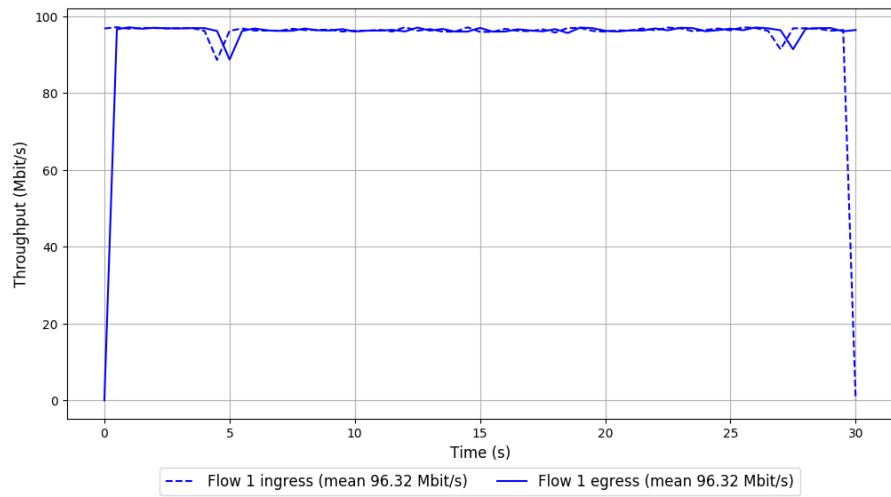


Run 5: Statistics of TCP Vegas

```
Start at: 2019-02-05 14:44:41
End at: 2019-02-05 14:45:11
Local clock offset: -4.326 ms
Remote clock offset: 0.192 ms

# Below is generated by plot.py at 2019-02-05 15:03:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 1.852 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 1.852 ms
Loss rate: 0.01%
```

### Run 5: Report of TCP Vegas — Data Link

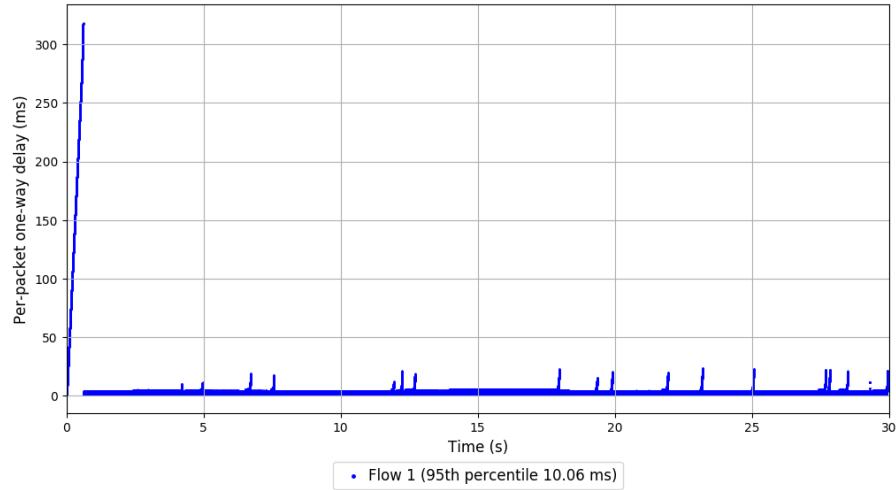
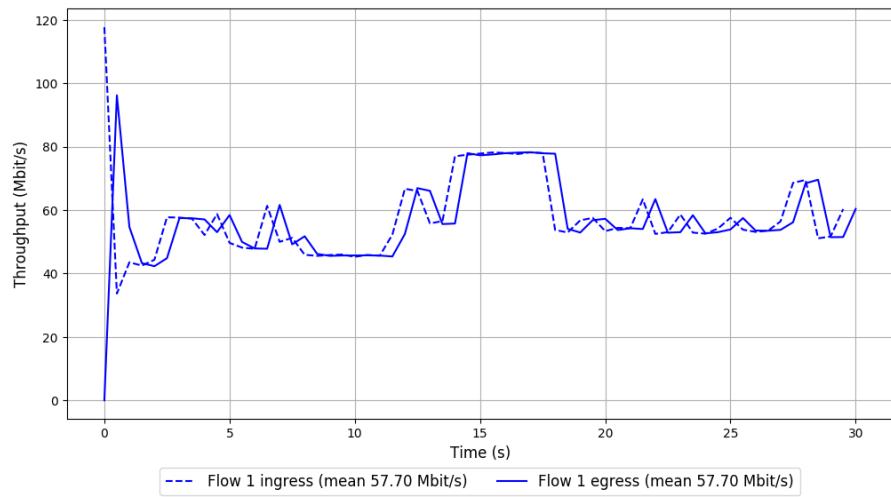


Run 1: Statistics of Verus

```
Start at: 2019-02-05 13:13:48
End at: 2019-02-05 13:14:18
Local clock offset: -7.522 ms
Remote clock offset: -0.459 ms

# Below is generated by plot.py at 2019-02-05 15:03:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.70 Mbit/s
95th percentile per-packet one-way delay: 10.062 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 57.70 Mbit/s
95th percentile per-packet one-way delay: 10.062 ms
Loss rate: 0.01%
```

### Run 1: Report of Verus — Data Link

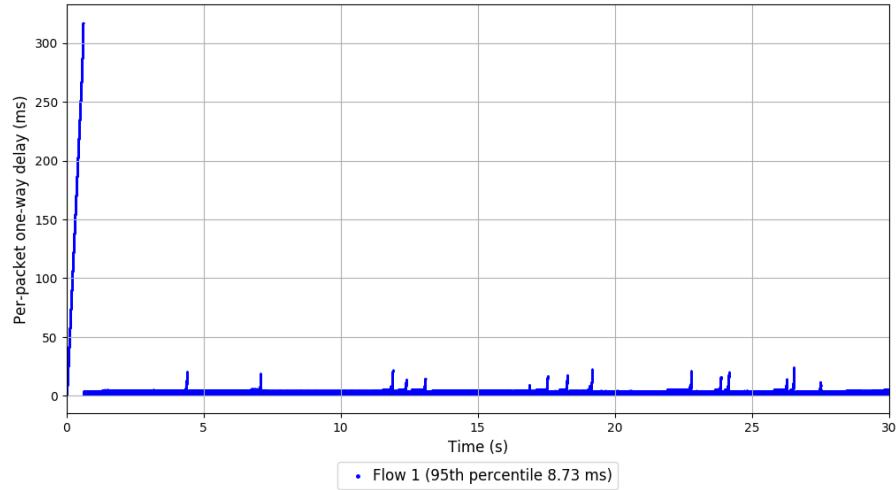
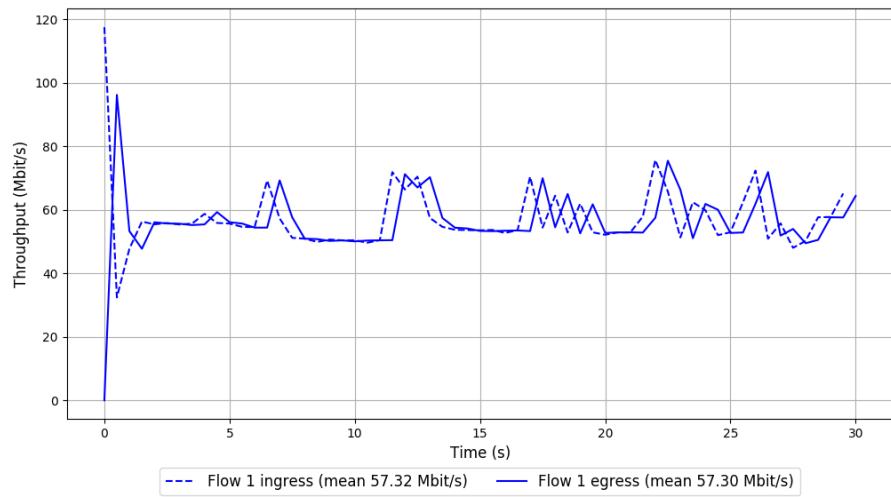


Run 2: Statistics of Verus

```
Start at: 2019-02-05 13:37:26
End at: 2019-02-05 13:37:56
Local clock offset: -6.621 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2019-02-05 15:03:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.30 Mbit/s
95th percentile per-packet one-way delay: 8.731 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 57.30 Mbit/s
95th percentile per-packet one-way delay: 8.731 ms
Loss rate: 0.03%
```

## Run 2: Report of Verus — Data Link

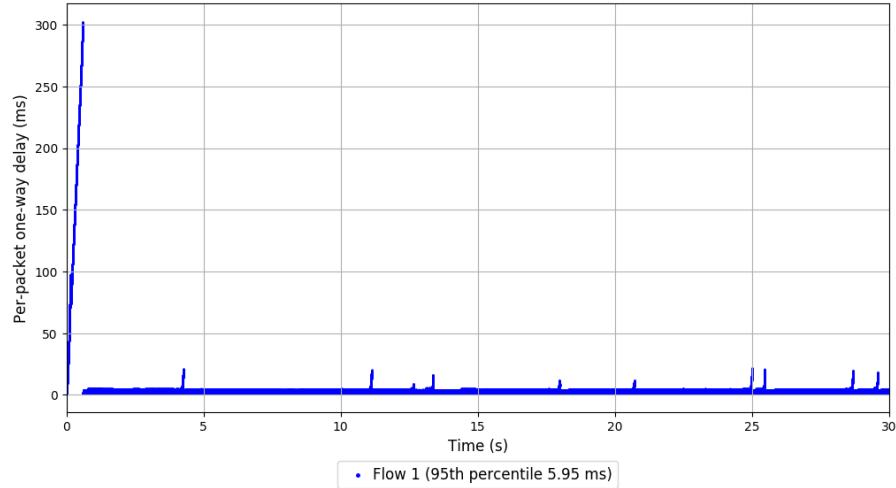
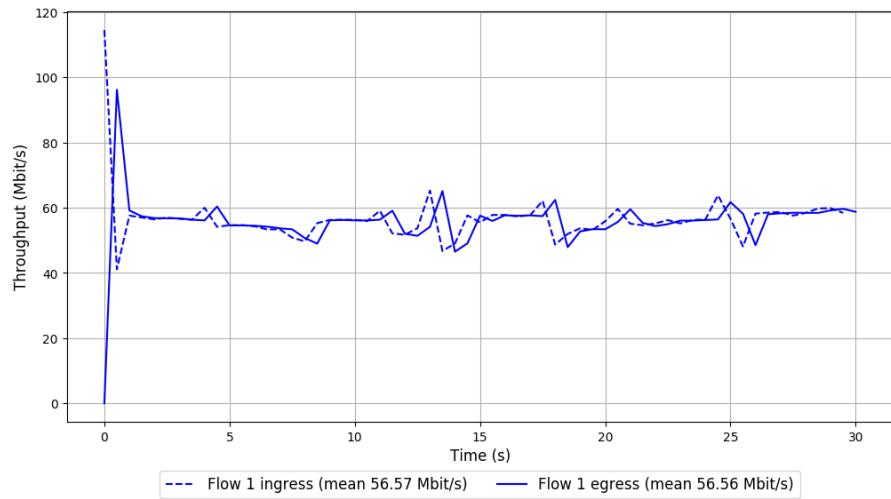


Run 3: Statistics of Verus

```
Start at: 2019-02-05 14:00:59
End at: 2019-02-05 14:01:29
Local clock offset: -5.301 ms
Remote clock offset: 0.276 ms

# Below is generated by plot.py at 2019-02-05 15:03:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.56 Mbit/s
95th percentile per-packet one-way delay: 5.953 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 56.56 Mbit/s
95th percentile per-packet one-way delay: 5.953 ms
Loss rate: 0.02%
```

### Run 3: Report of Verus — Data Link

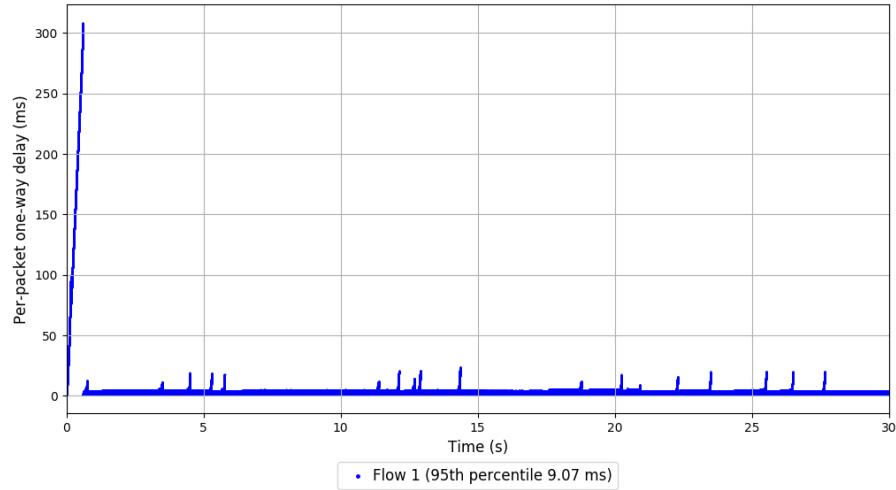
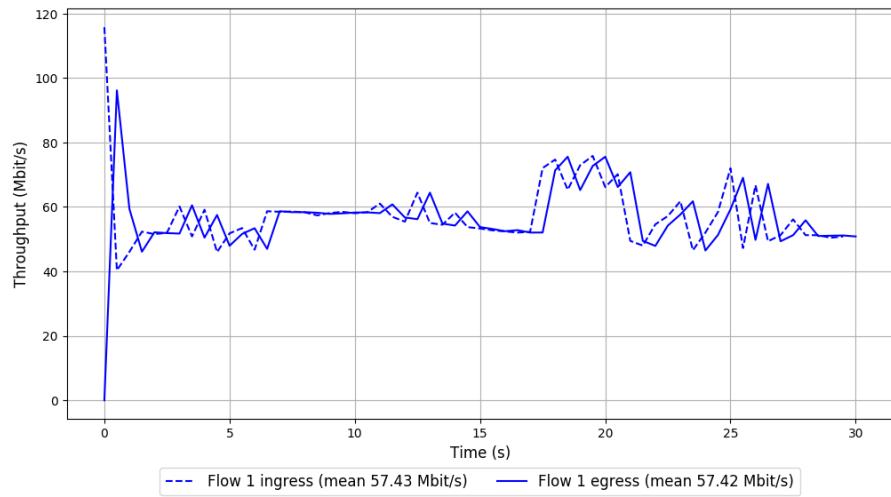


Run 4: Statistics of Verus

```
Start at: 2019-02-05 14:24:33
End at: 2019-02-05 14:25:03
Local clock offset: -4.538 ms
Remote clock offset: 0.557 ms

# Below is generated by plot.py at 2019-02-05 15:03:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.42 Mbit/s
95th percentile per-packet one-way delay: 9.068 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 57.42 Mbit/s
95th percentile per-packet one-way delay: 9.068 ms
Loss rate: 0.01%
```

## Run 4: Report of Verus — Data Link

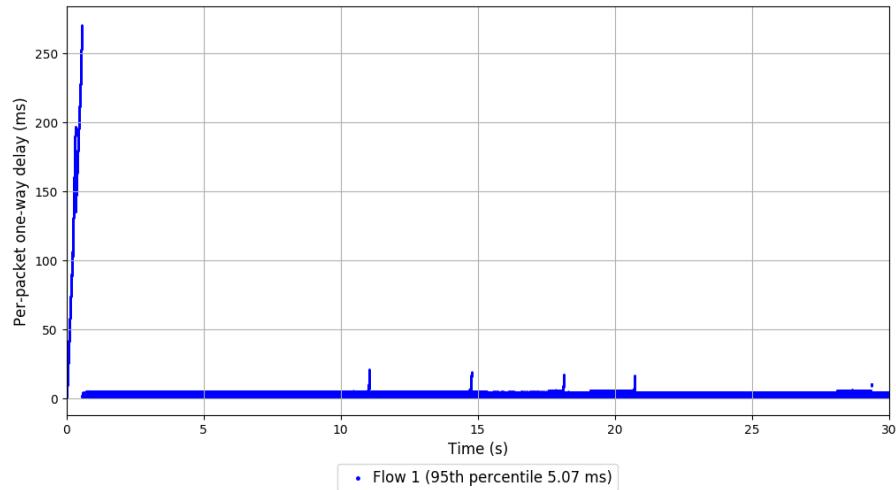
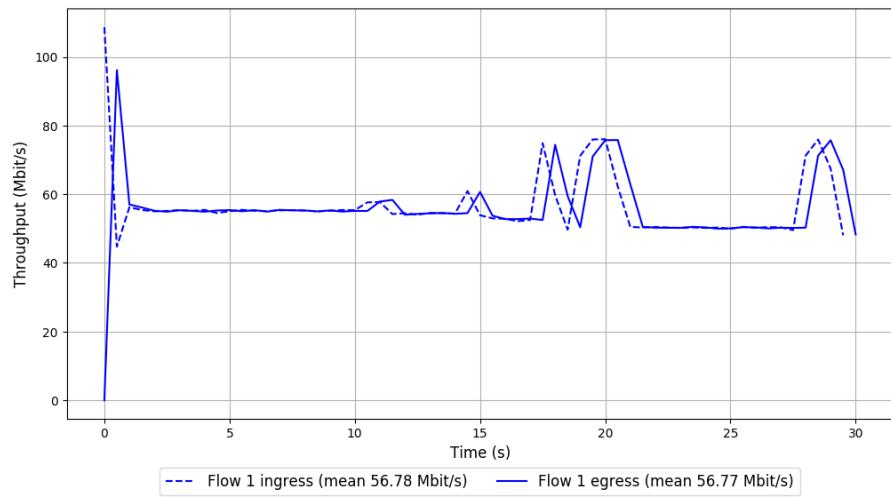


Run 5: Statistics of Verus

```
Start at: 2019-02-05 14:48:09
End at: 2019-02-05 14:48:39
Local clock offset: -4.355 ms
Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2019-02-05 15:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.77 Mbit/s
95th percentile per-packet one-way delay: 5.072 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 56.77 Mbit/s
95th percentile per-packet one-way delay: 5.072 ms
Loss rate: 0.02%
```

### Run 5: Report of Verus — Data Link

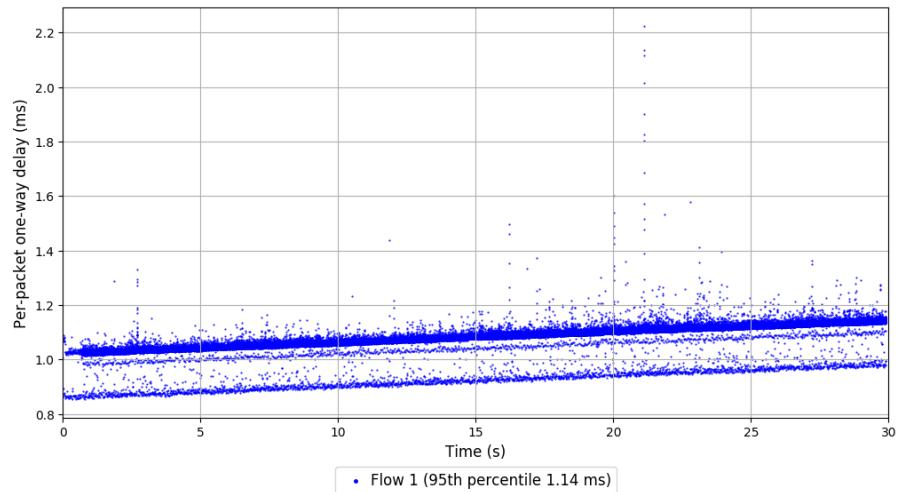
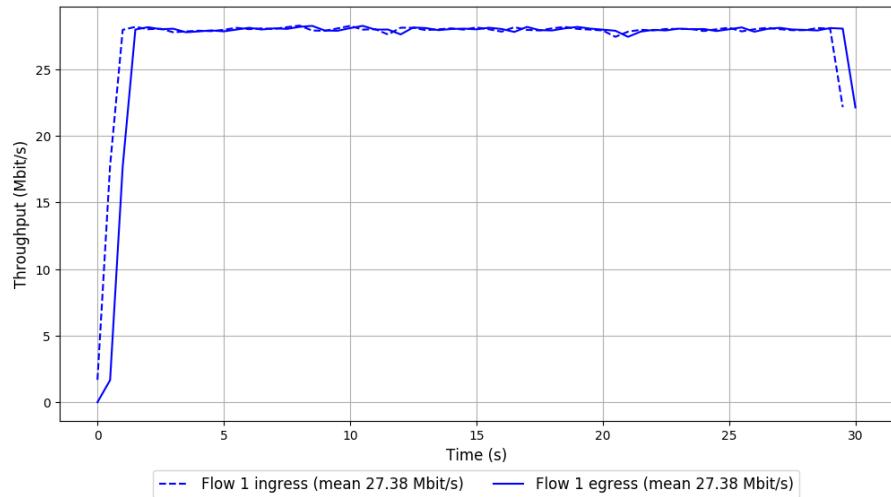


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-02-05 13:03:44
End at: 2019-02-05 13:04:14
Local clock offset: -5.651 ms
Remote clock offset: -0.584 ms

# Below is generated by plot.py at 2019-02-05 15:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.38 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 27.38 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Vivace — Data Link

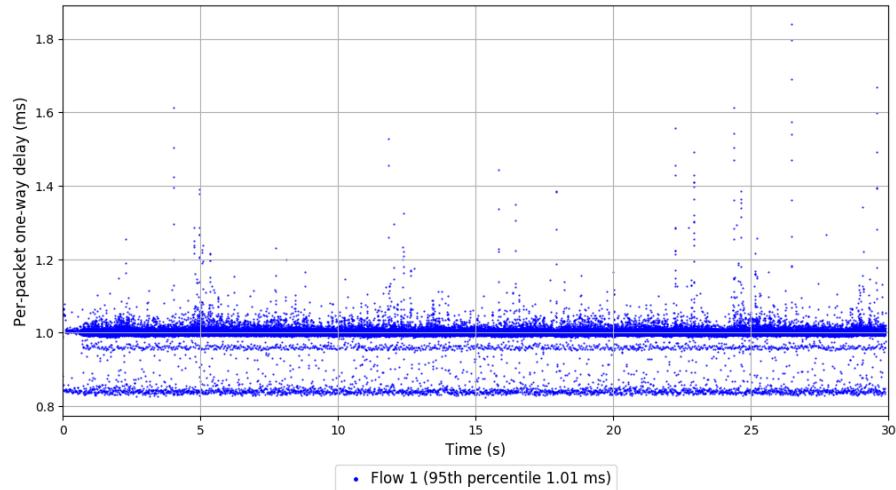
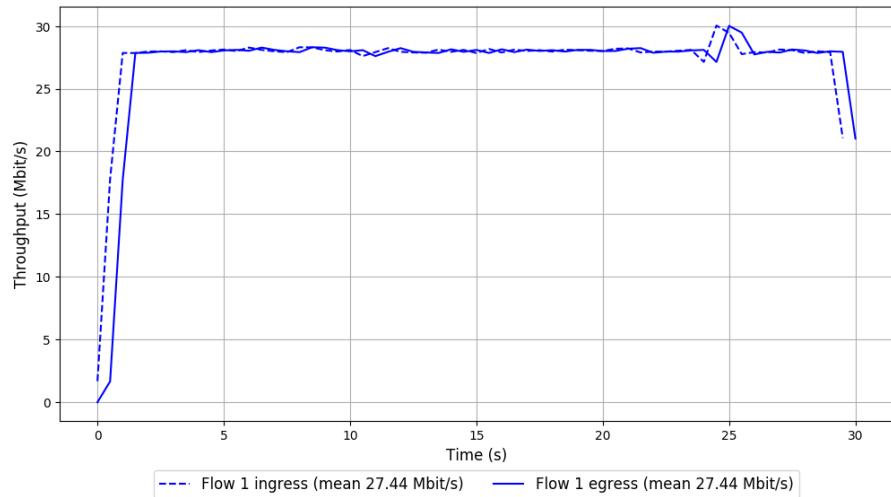


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-02-05 13:27:21
End at: 2019-02-05 13:27:51
Local clock offset: -6.485 ms
Remote clock offset: -0.191 ms

# Below is generated by plot.py at 2019-02-05 15:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.44 Mbit/s
95th percentile per-packet one-way delay: 1.014 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 27.44 Mbit/s
95th percentile per-packet one-way delay: 1.014 ms
Loss rate: 0.01%
```

## Run 2: Report of PCC-Vivace — Data Link

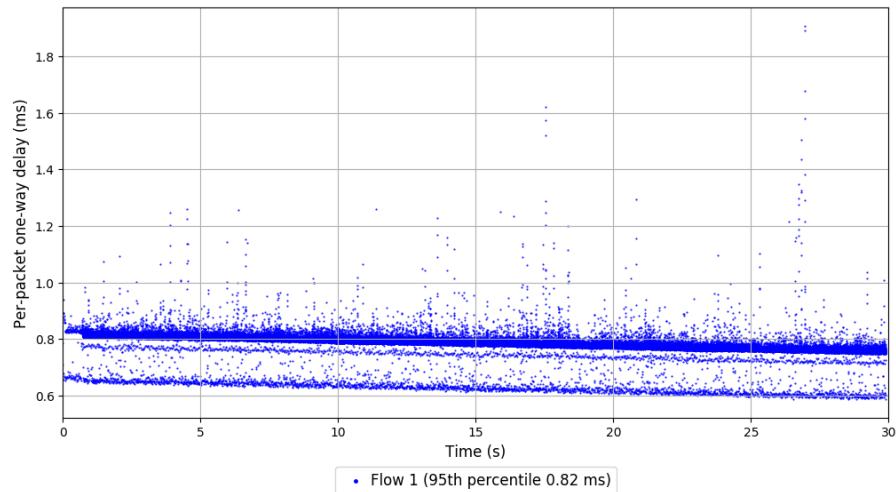
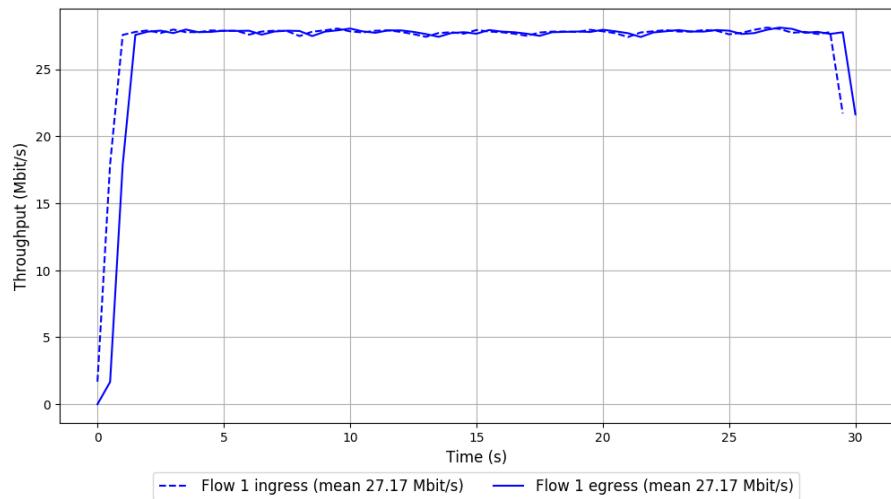


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-02-05 13:50:55
End at: 2019-02-05 13:51:25
Local clock offset: -6.005 ms
Remote clock offset: 0.271 ms

# Below is generated by plot.py at 2019-02-05 15:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.17 Mbit/s
95th percentile per-packet one-way delay: 0.819 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 27.17 Mbit/s
95th percentile per-packet one-way delay: 0.819 ms
Loss rate: 0.01%
```

Run 3: Report of PCC-Vivace — Data Link

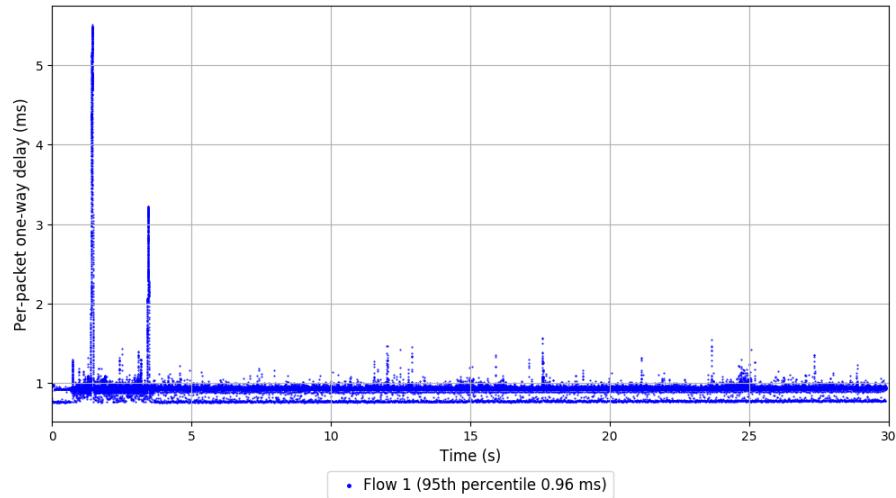
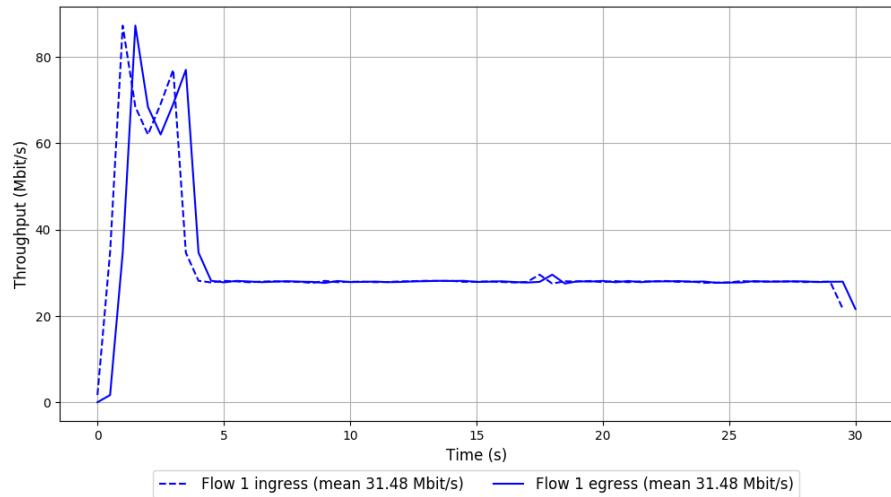


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-02-05 14:14:29
End at: 2019-02-05 14:14:59
Local clock offset: -5.257 ms
Remote clock offset: 0.5 ms

# Below is generated by plot.py at 2019-02-05 15:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.48 Mbit/s
95th percentile per-packet one-way delay: 0.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.48 Mbit/s
95th percentile per-packet one-way delay: 0.958 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

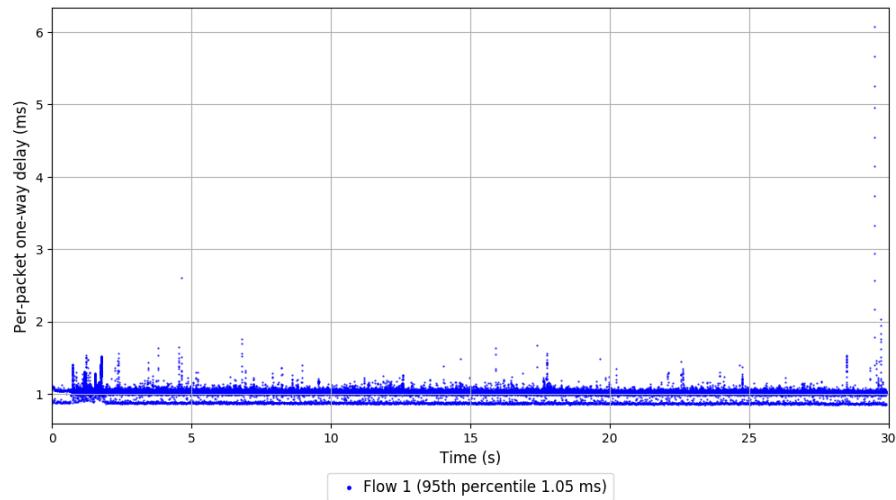
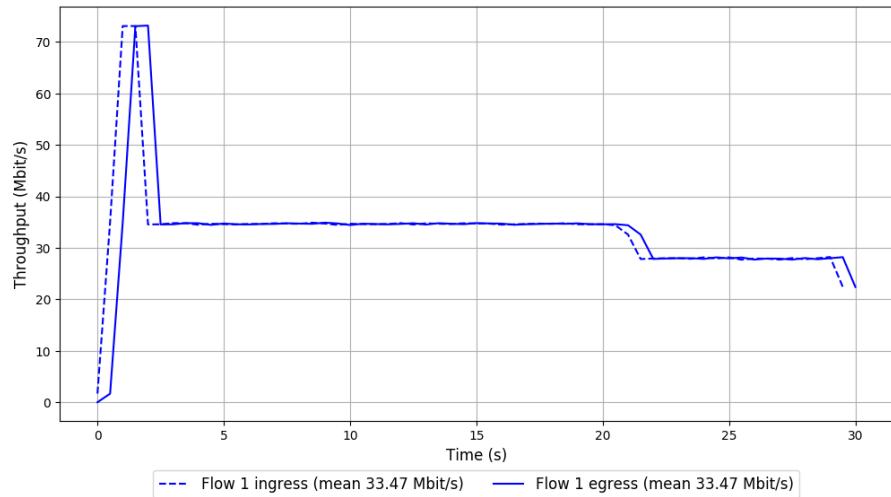


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-02-05 14:38:05
End at: 2019-02-05 14:38:35
Local clock offset: -4.264 ms
Remote clock offset: 0.261 ms

# Below is generated by plot.py at 2019-02-05 15:04:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.47 Mbit/s
95th percentile per-packet one-way delay: 1.054 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 33.47 Mbit/s
95th percentile per-packet one-way delay: 1.054 ms
Loss rate: 0.01%
```

Run 5: Report of PCC-Vivace — Data Link

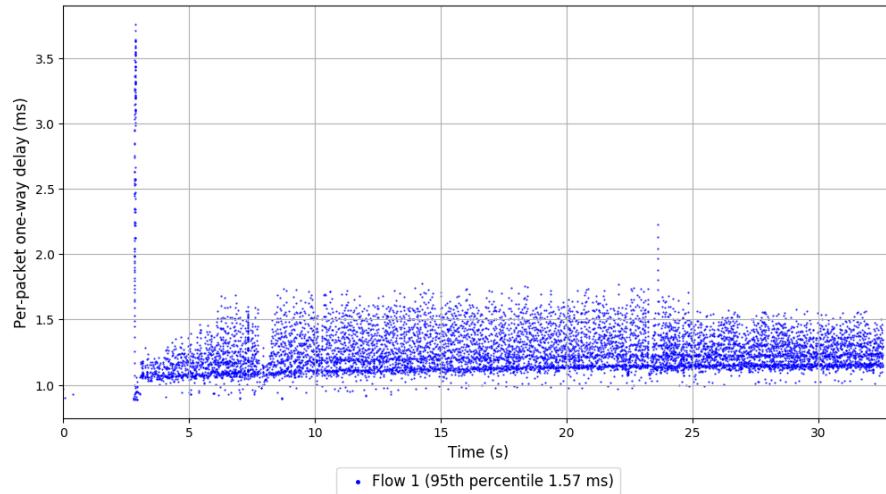
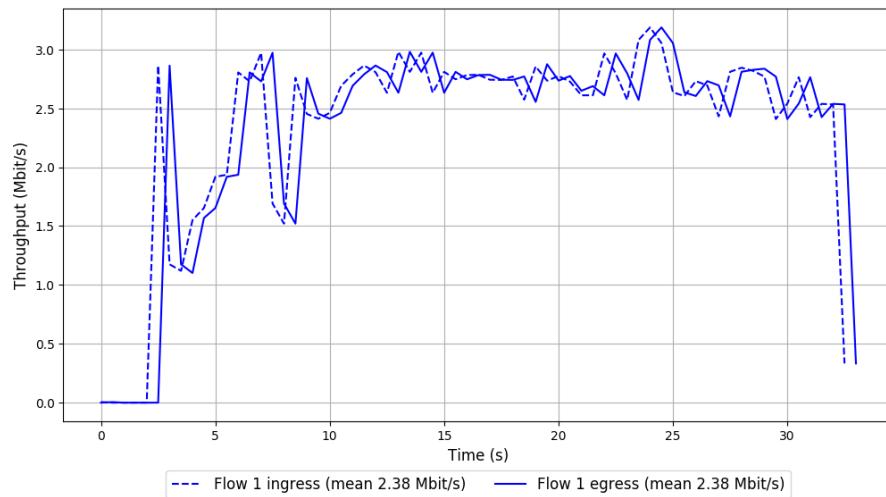


```
Run 1: Statistics of WebRTC media

Start at: 2019-02-05 13:09:16
End at: 2019-02-05 13:09:46
Local clock offset: -6.812 ms
Remote clock offset: -0.565 ms

# Below is generated by plot.py at 2019-02-05 15:04:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 1.566 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 1.566 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

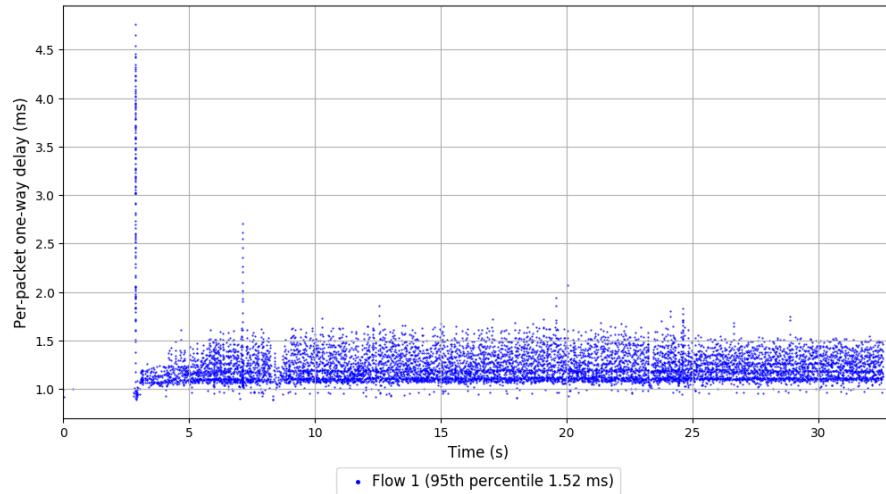
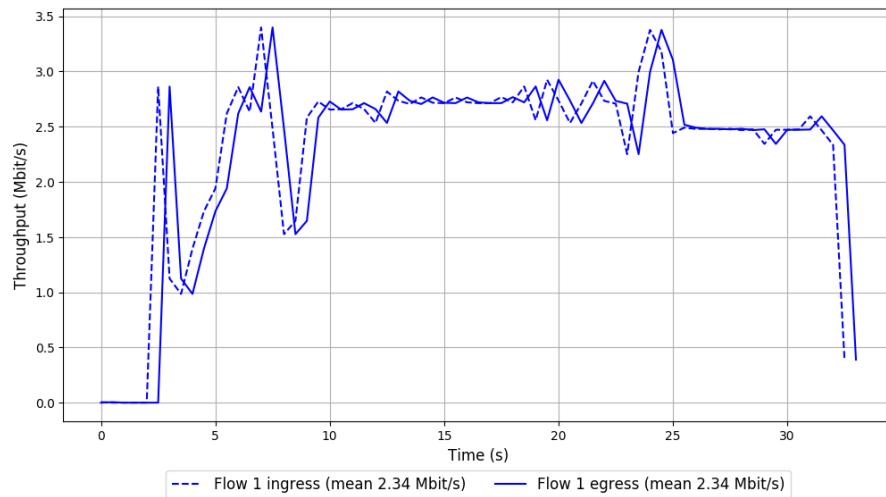


Run 2: Statistics of WebRTC media

```
Start at: 2019-02-05 13:32:54
End at: 2019-02-05 13:33:24
Local clock offset: -6.478 ms
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2019-02-05 15:04:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 1.523 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 1.523 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

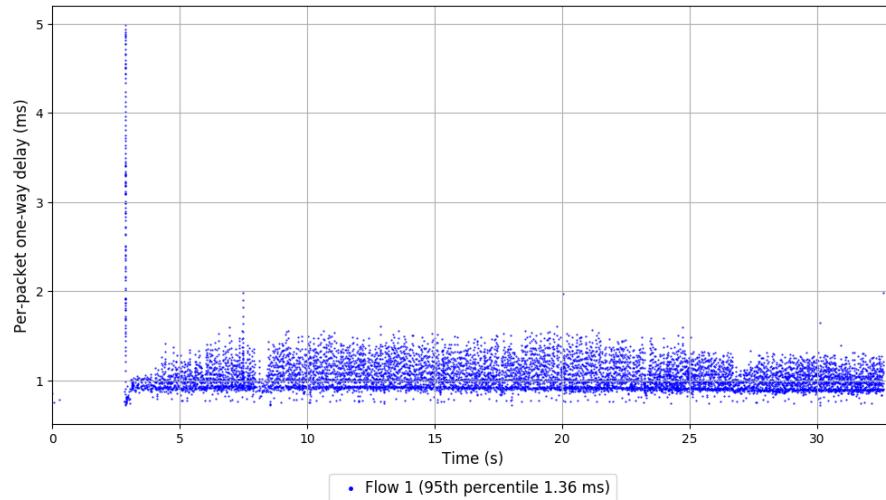
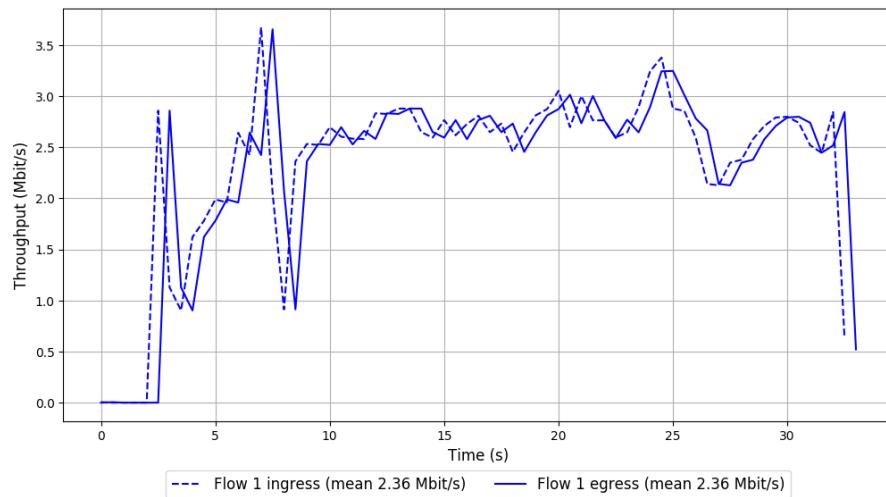


Run 3: Statistics of WebRTC media

```
Start at: 2019-02-05 13:56:27
End at: 2019-02-05 13:56:57
Local clock offset: -5.417 ms
Remote clock offset: 0.308 ms

# Below is generated by plot.py at 2019-02-05 15:04:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 1.365 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 1.365 ms
Loss rate: 0.07%
```

### Run 3: Report of WebRTC media — Data Link

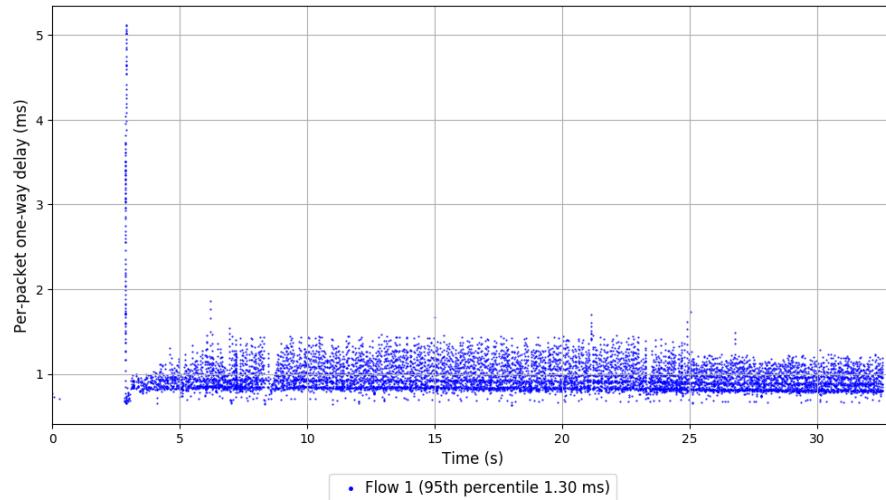
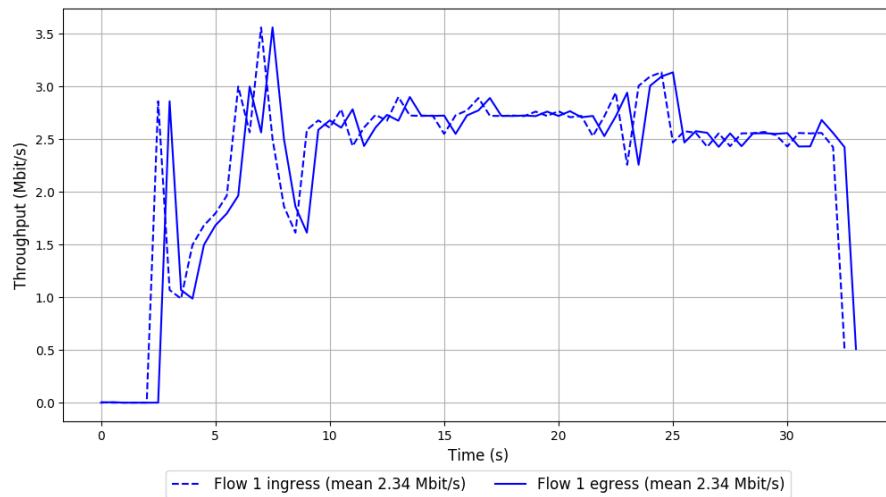


Run 4: Statistics of WebRTC media

```
Start at: 2019-02-05 14:20:01
End at: 2019-02-05 14:20:31
Local clock offset: -4.911 ms
Remote clock offset: 0.548 ms

# Below is generated by plot.py at 2019-02-05 15:04:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 1.298 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 1.298 ms
Loss rate: 0.00%
```

#### Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-02-05 14:43:37
End at: 2019-02-05 14:44:07
Local clock offset: -4.322 ms
Remote clock offset: 0.273 ms

# Below is generated by plot.py at 2019-02-05 15:04:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 1.301 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 1.301 ms
Loss rate: 0.01%
```

Run 5: Report of WebRTC media — Data Link

