

Pantheon Report

Generated at 2019-01-19 08:43:54 (UTC).
Data path: Saudi Arabia on `enp2s0` (*remote*) → AWS India 2 on `ens5` (*local*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

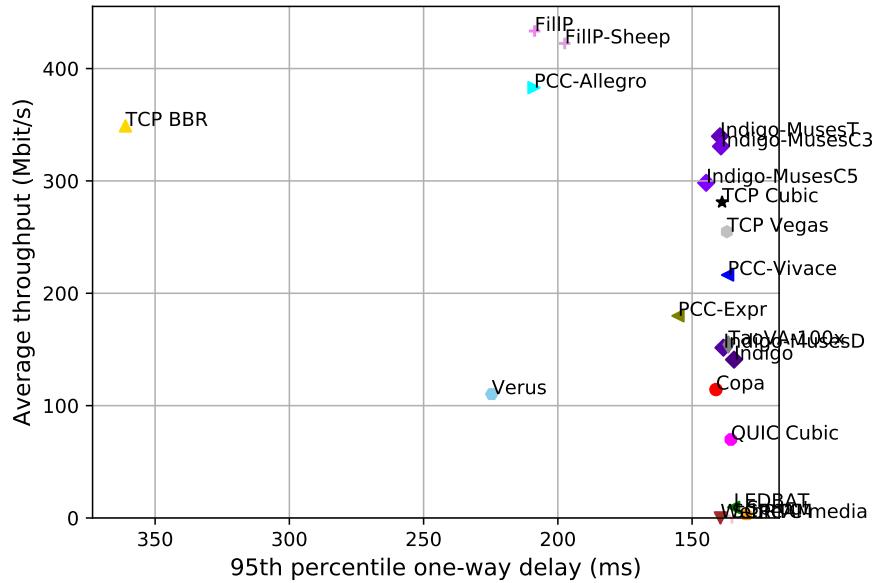
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

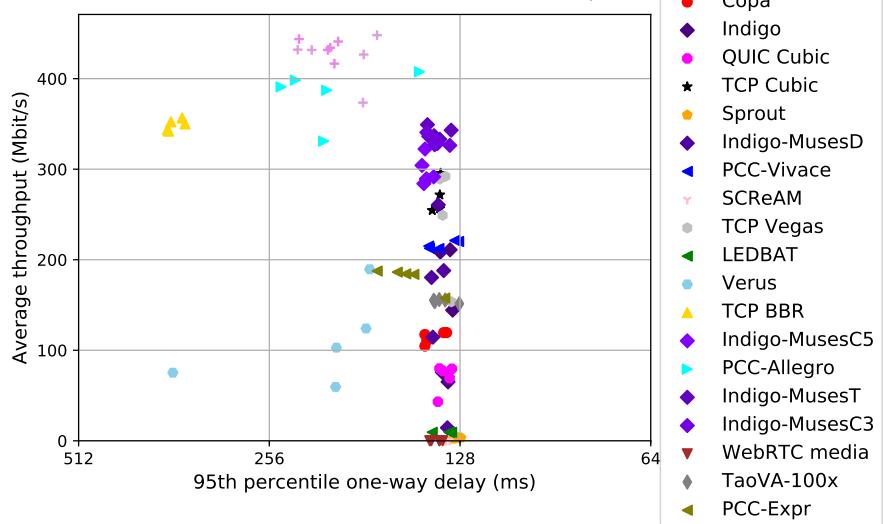
```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d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

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from Saudi Arabia to AWS India 2, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from Saudi Arabia to AWS India 2, 5 runs of 30s each per scheme



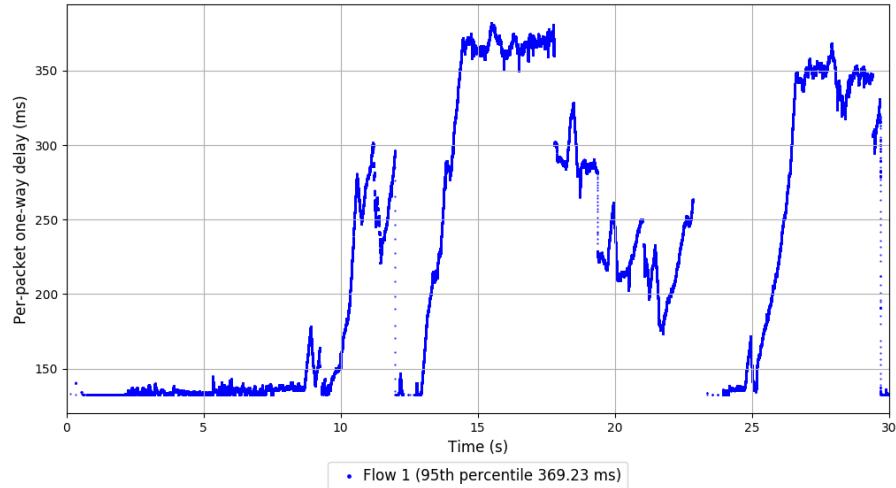
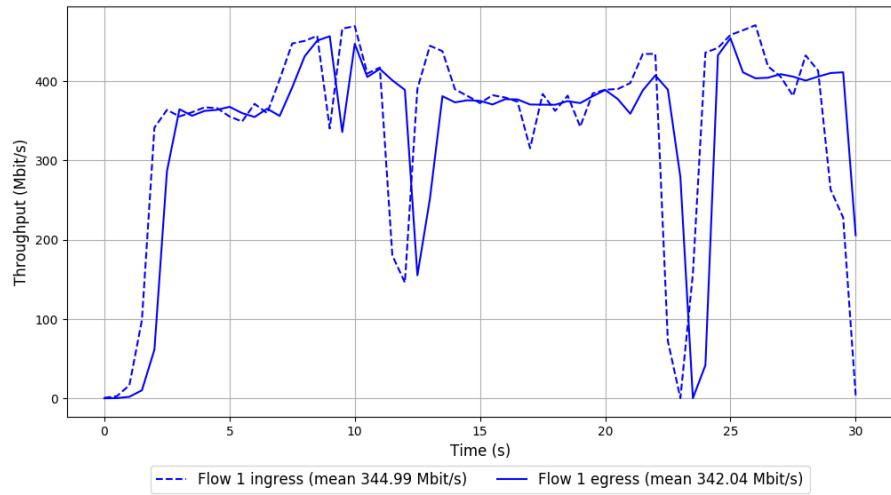
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	348.92	361.03	1.70
Copa	5	114.31	141.11	0.72
TCP Cubic	5	281.12	138.84	0.75
FillP	5	433.44	208.65	2.04
FillP-Sheep	5	422.38	197.44	1.36
Indigo	5	140.92	134.38	0.58
Indigo-MusesC3	5	330.74	139.25	0.81
Indigo-MusesC5	5	298.32	144.77	0.93
Indigo-MusesD	5	151.57	138.33	1.37
Indigo-MusesT	5	339.74	139.62	0.78
LEDBAT	5	9.46	134.54	1.30
PCC-Allegro	5	383.02	208.88	0.88
PCC-Expr	5	179.94	155.27	0.69
QUIC Cubic	5	69.85	135.56	0.57
SCReAM	5	0.22	135.16	0.64
Sprout	5	3.08	129.70	0.87
TaoVA-100x	5	154.38	136.51	0.70
TCP Vegas	5	254.78	137.05	0.64
Verus	5	110.25	224.64	0.96
PCC-Vivace	5	216.29	136.77	0.76
WebRTC media	5	0.05	139.45	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-19 05:51:27
End at: 2019-01-19 05:51:57
Local clock offset: 1.831 ms
Remote clock offset: -34.266 ms

# Below is generated by plot.py at 2019-01-19 08:14:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.04 Mbit/s
95th percentile per-packet one-way delay: 369.229 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 342.04 Mbit/s
95th percentile per-packet one-way delay: 369.229 ms
Loss rate: 1.51%
```

Run 1: Report of TCP BBR — Data Link

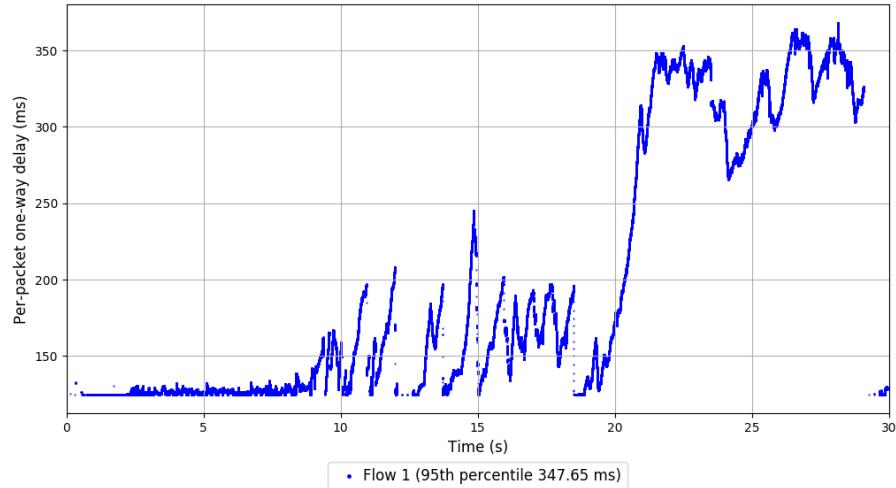
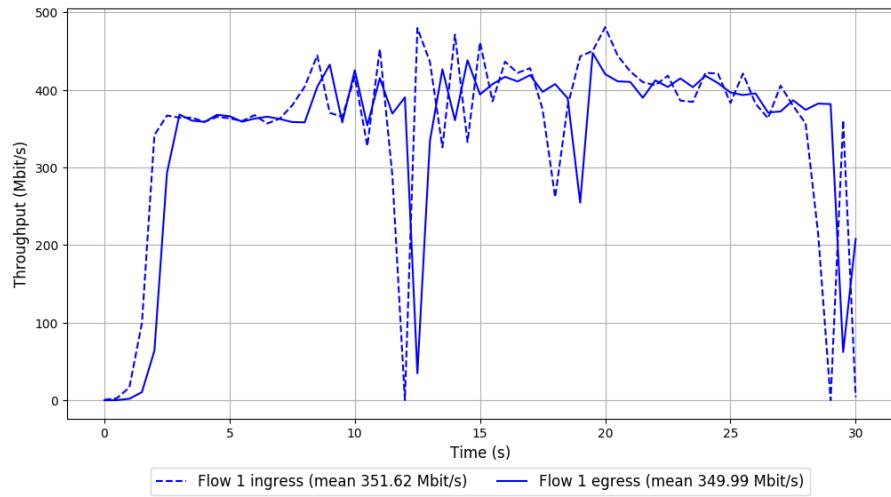


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-19 06:19:35
End at: 2019-01-19 06:20:05
Local clock offset: -0.261 ms
Remote clock offset: -30.804 ms

# Below is generated by plot.py at 2019-01-19 08:15:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 349.99 Mbit/s
95th percentile per-packet one-way delay: 347.652 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 349.99 Mbit/s
95th percentile per-packet one-way delay: 347.652 ms
Loss rate: 1.12%
```

Run 2: Report of TCP BBR — Data Link

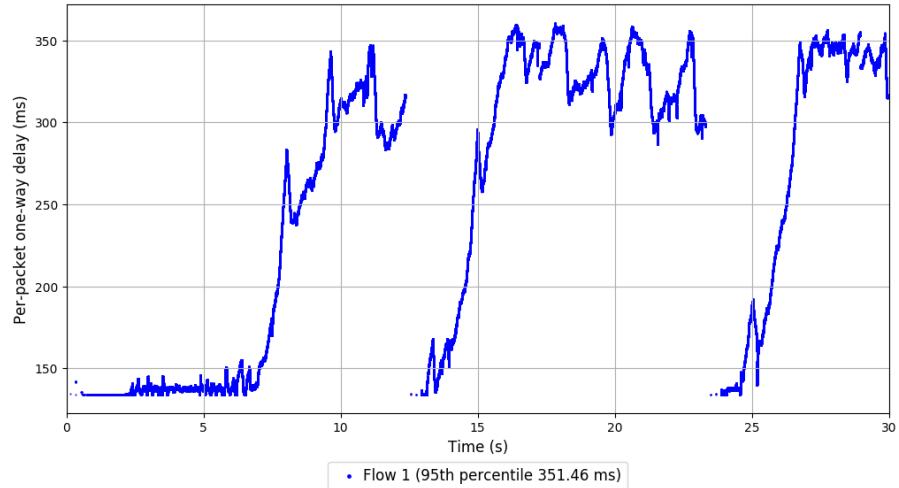
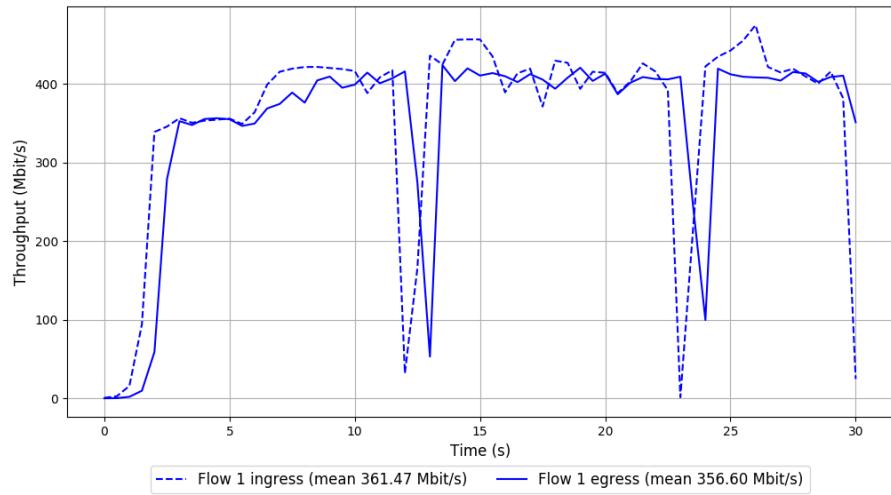


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-19 06:53:10
End at: 2019-01-19 06:53:40
Local clock offset: 1.342 ms
Remote clock offset: -37.208 ms

# Below is generated by plot.py at 2019-01-19 08:15:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.60 Mbit/s
95th percentile per-packet one-way delay: 351.458 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 356.60 Mbit/s
95th percentile per-packet one-way delay: 351.458 ms
Loss rate: 2.10%
```

Run 3: Report of TCP BBR — Data Link

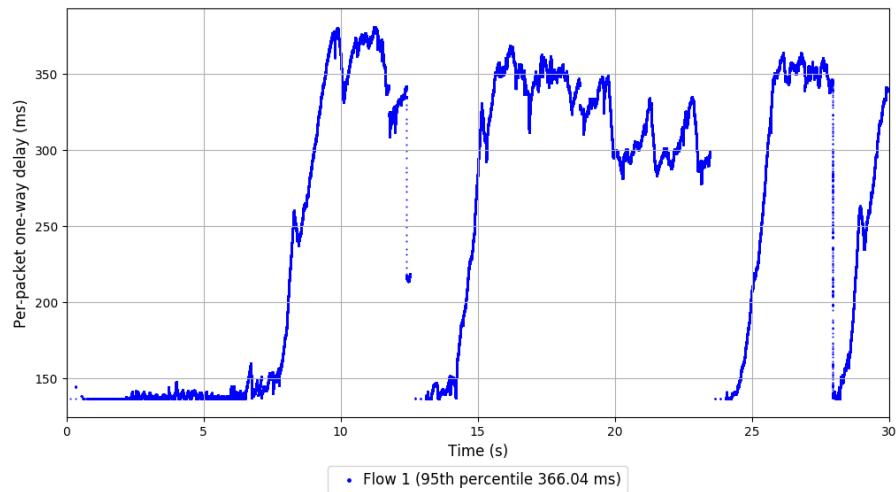
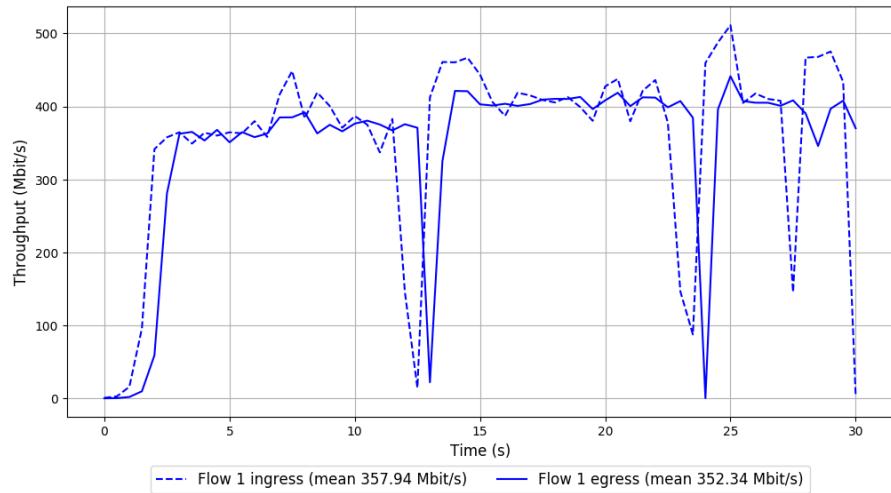


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-19 07:32:23
End at: 2019-01-19 07:32:53
Local clock offset: -1.075 ms
Remote clock offset: -40.151 ms

# Below is generated by plot.py at 2019-01-19 08:15:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.34 Mbit/s
95th percentile per-packet one-way delay: 366.042 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 352.34 Mbit/s
95th percentile per-packet one-way delay: 366.042 ms
Loss rate: 2.21%
```

Run 4: Report of TCP BBR — Data Link

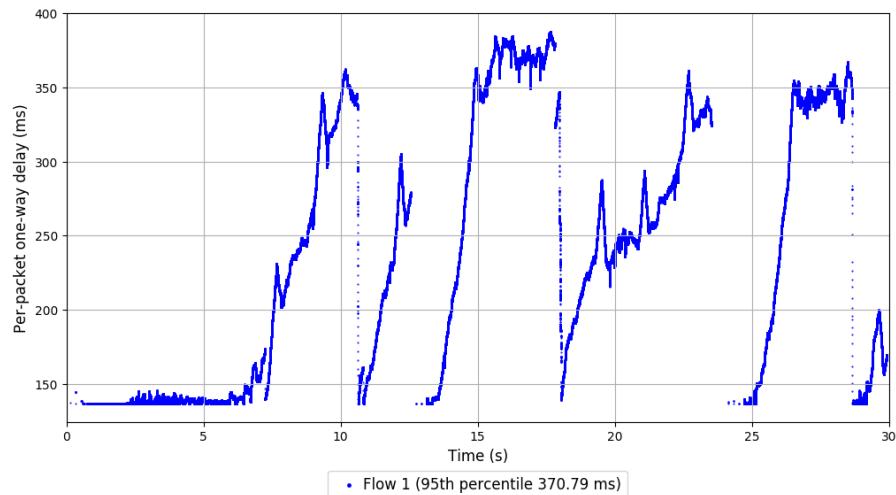
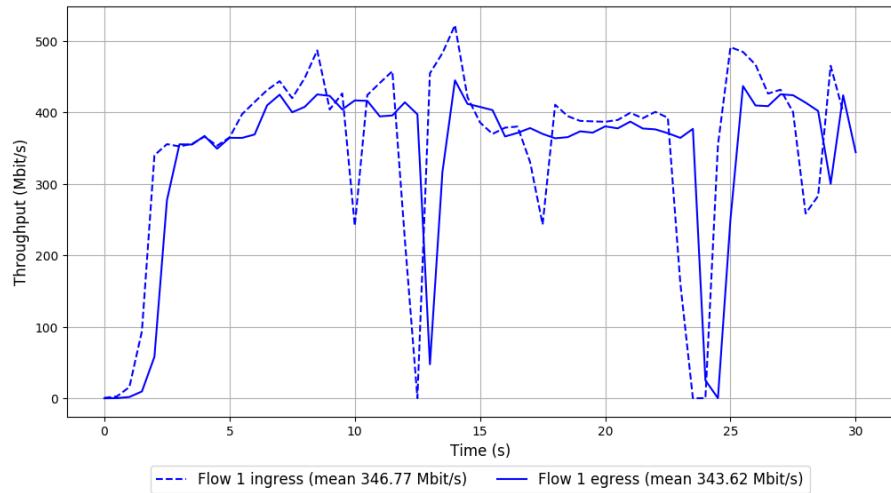


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-19 08:06:07
End at: 2019-01-19 08:06:37
Local clock offset: 1.434 ms
Remote clock offset: -38.007 ms

# Below is generated by plot.py at 2019-01-19 08:15:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.62 Mbit/s
95th percentile per-packet one-way delay: 370.787 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 343.62 Mbit/s
95th percentile per-packet one-way delay: 370.787 ms
Loss rate: 1.57%
```

Run 5: Report of TCP BBR — Data Link

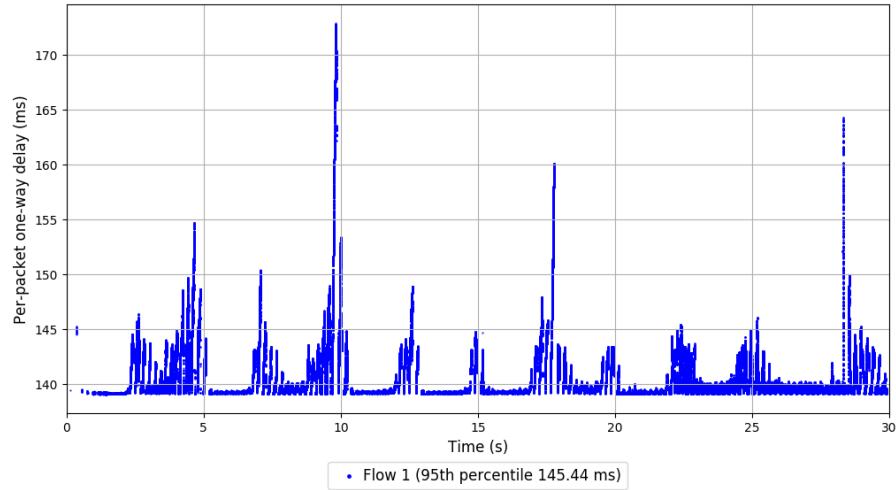
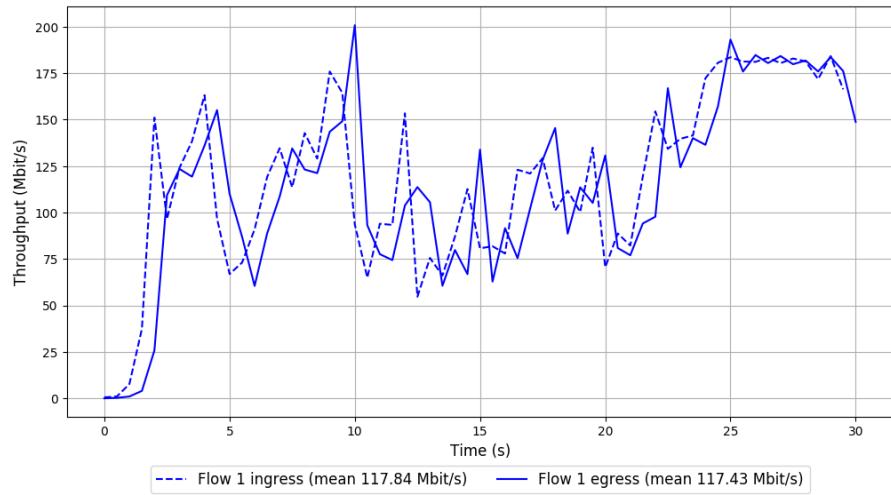


Run 1: Statistics of Copa

```
Start at: 2019-01-19 05:28:22
End at: 2019-01-19 05:28:52
Local clock offset: 0.23 ms
Remote clock offset: -41.734 ms

# Below is generated by plot.py at 2019-01-19 08:15:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 117.43 Mbit/s
95th percentile per-packet one-way delay: 145.444 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 117.43 Mbit/s
95th percentile per-packet one-way delay: 145.444 ms
Loss rate: 1.00%
```

Run 1: Report of Copa — Data Link

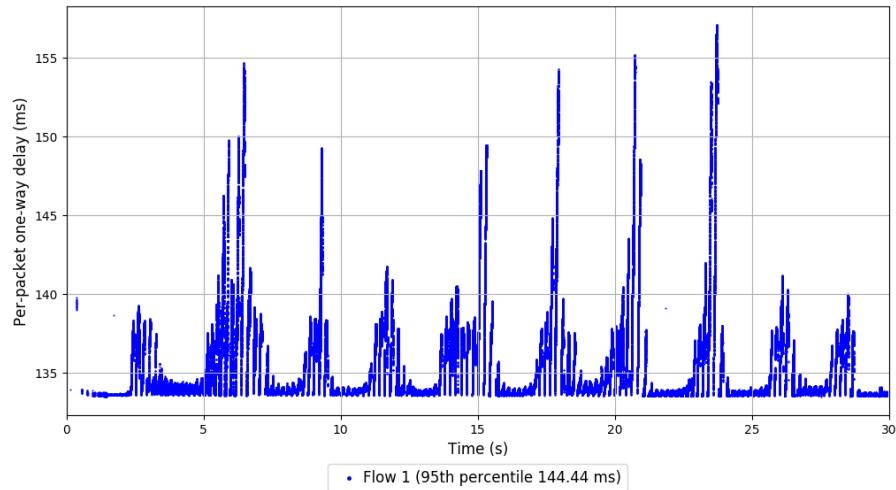
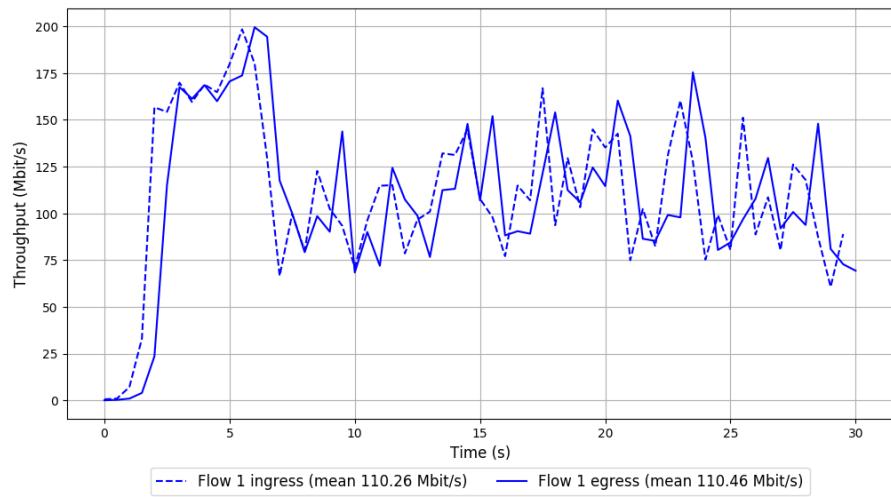


Run 2: Statistics of Copa

```
Start at: 2019-01-19 06:02:14
End at: 2019-01-19 06:02:44
Local clock offset: 0.348 ms
Remote clock offset: -38.113 ms

# Below is generated by plot.py at 2019-01-19 08:15:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 110.46 Mbit/s
95th percentile per-packet one-way delay: 144.435 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 110.46 Mbit/s
95th percentile per-packet one-way delay: 144.435 ms
Loss rate: 0.47%
```

Run 2: Report of Copa — Data Link

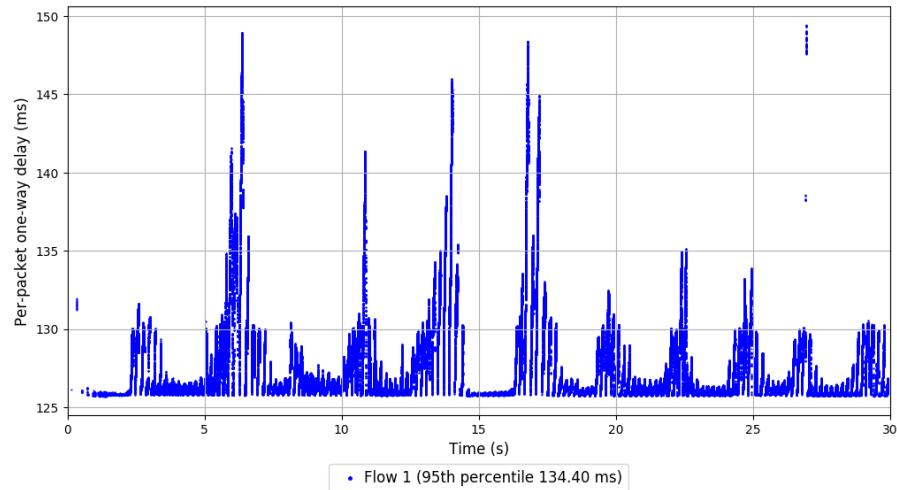
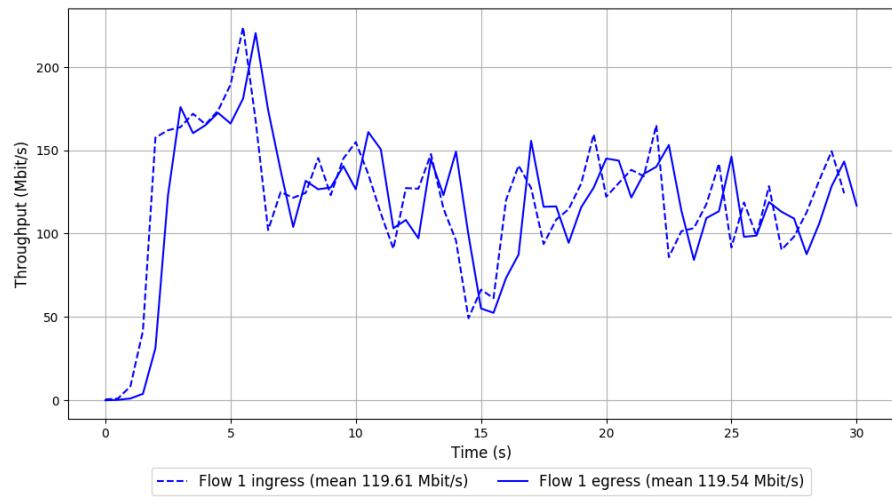


Run 3: Statistics of Copa

```
Start at: 2019-01-19 06:35:49
End at: 2019-01-19 06:36:19
Local clock offset: 0.888 ms
Remote clock offset: -31.614 ms

# Below is generated by plot.py at 2019-01-19 08:15:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 119.54 Mbit/s
95th percentile per-packet one-way delay: 134.396 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 119.54 Mbit/s
95th percentile per-packet one-way delay: 134.396 ms
Loss rate: 0.70%
```

Run 3: Report of Copa — Data Link

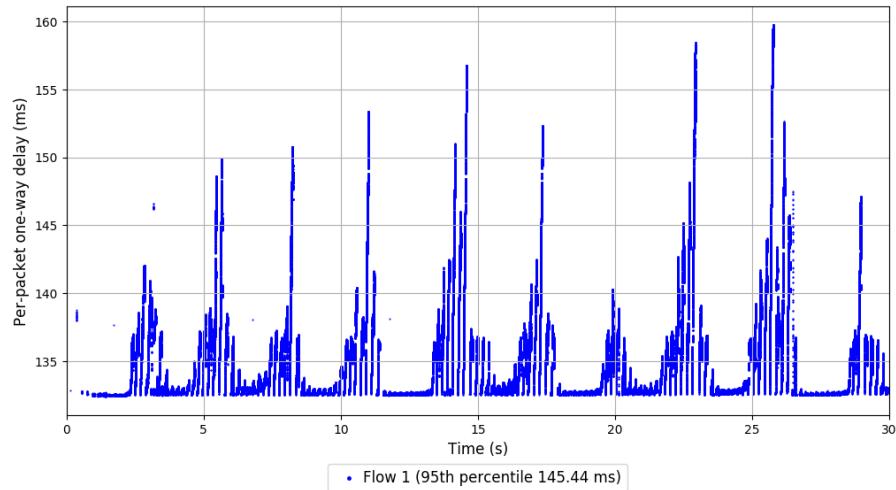
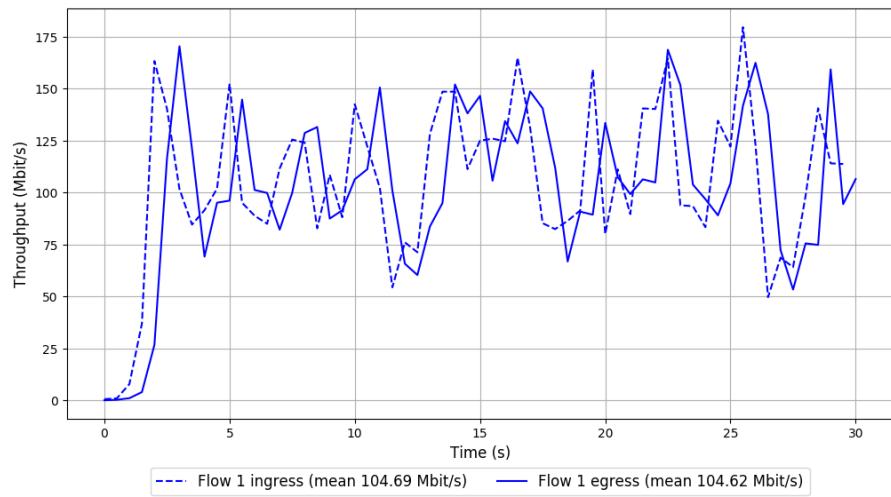


Run 4: Statistics of Copa

```
Start at: 2019-01-19 07:09:01
End at: 2019-01-19 07:09:31
Local clock offset: -1.697 ms
Remote clock offset: -37.531 ms

# Below is generated by plot.py at 2019-01-19 08:15:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 104.62 Mbit/s
95th percentile per-packet one-way delay: 145.444 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 104.62 Mbit/s
95th percentile per-packet one-way delay: 145.444 ms
Loss rate: 0.71%
```

Run 4: Report of Copa — Data Link

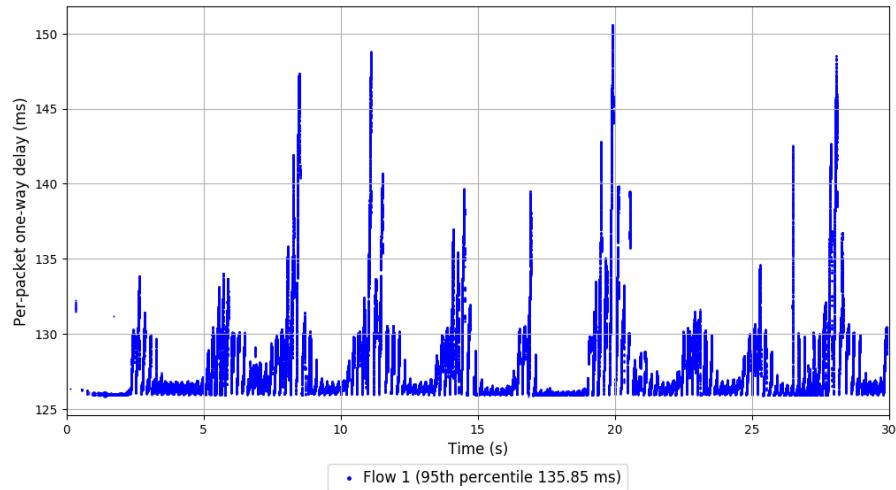
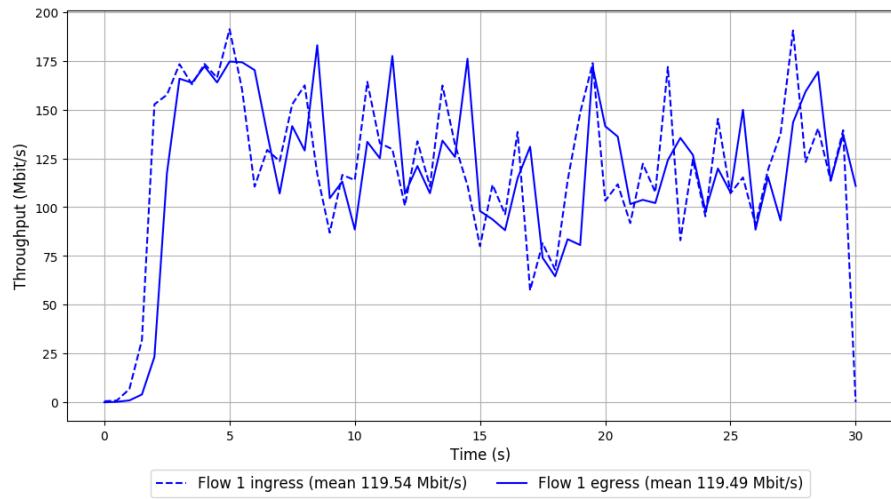


Run 5: Statistics of Copa

```
Start at: 2019-01-19 07:48:42
End at: 2019-01-19 07:49:12
Local clock offset: -1.169 ms
Remote clock offset: -29.75 ms

# Below is generated by plot.py at 2019-01-19 08:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 119.49 Mbit/s
95th percentile per-packet one-way delay: 135.850 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 119.49 Mbit/s
95th percentile per-packet one-way delay: 135.850 ms
Loss rate: 0.71%
```

Run 5: Report of Copa — Data Link

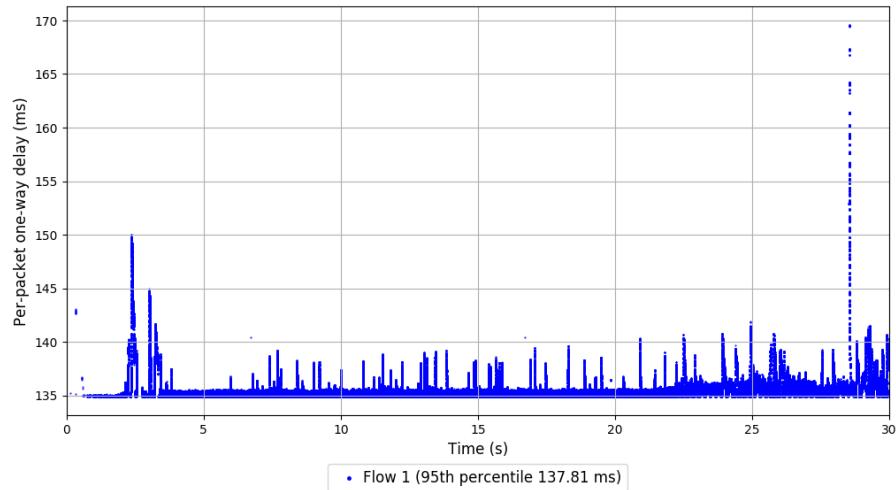
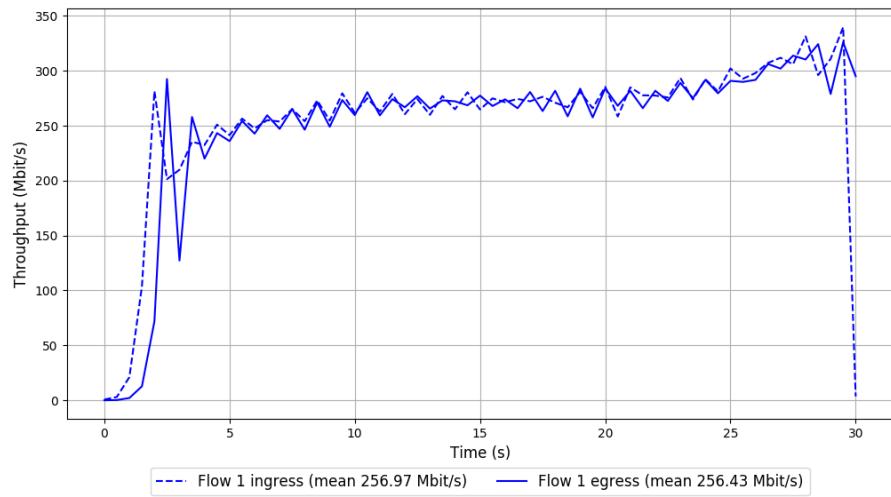


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-19 05:25:48
End at: 2019-01-19 05:26:18
Local clock offset: 1.261 ms
Remote clock offset: -36.377 ms

# Below is generated by plot.py at 2019-01-19 08:16:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.43 Mbit/s
95th percentile per-packet one-way delay: 137.812 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 256.43 Mbit/s
95th percentile per-packet one-way delay: 137.812 ms
Loss rate: 0.87%
```

Run 1: Report of TCP Cubic — Data Link

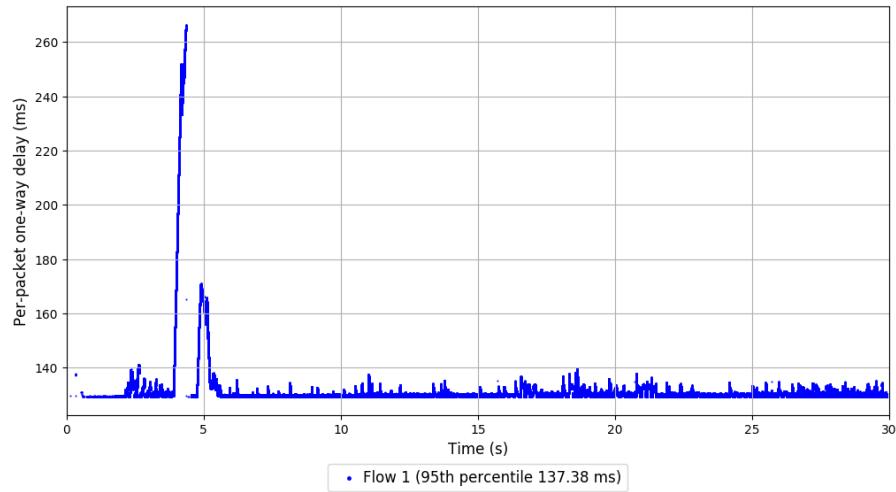
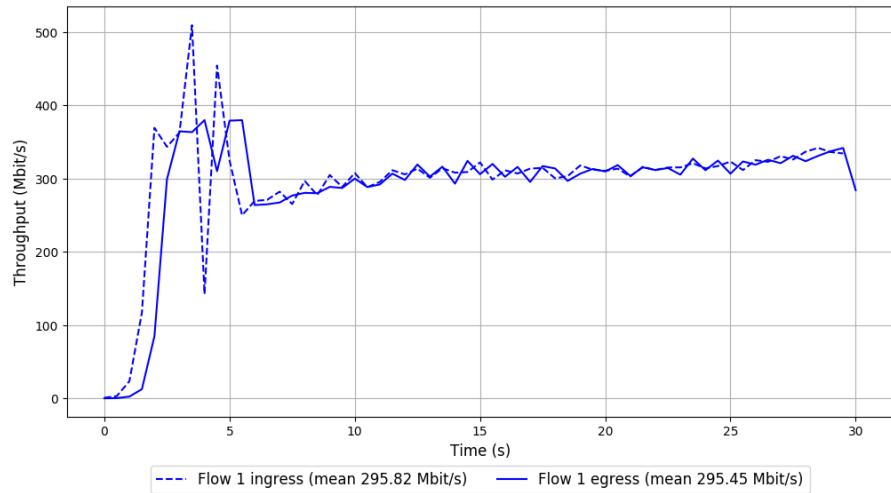


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-19 05:59:38
End at: 2019-01-19 06:00:08
Local clock offset: 0.178 ms
Remote clock offset: -32.246 ms

# Below is generated by plot.py at 2019-01-19 08:17:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 295.45 Mbit/s
95th percentile per-packet one-way delay: 137.375 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 295.45 Mbit/s
95th percentile per-packet one-way delay: 137.375 ms
Loss rate: 0.77%
```

Run 2: Report of TCP Cubic — Data Link

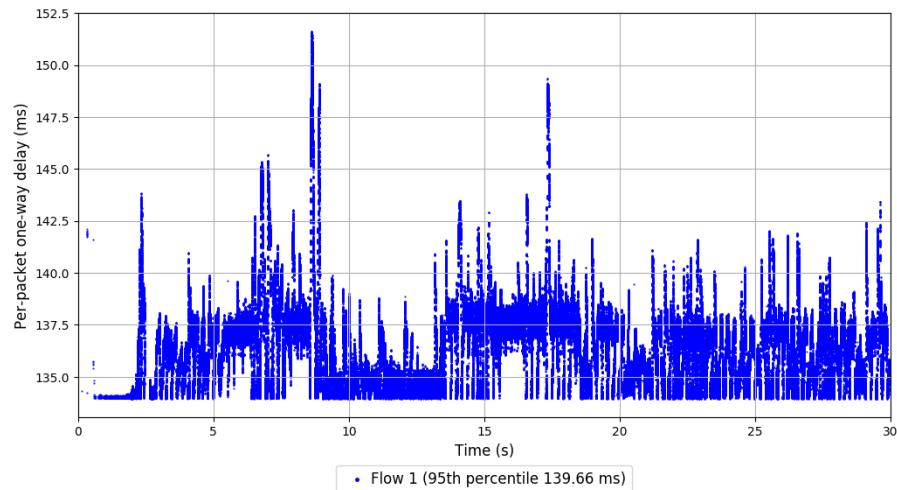
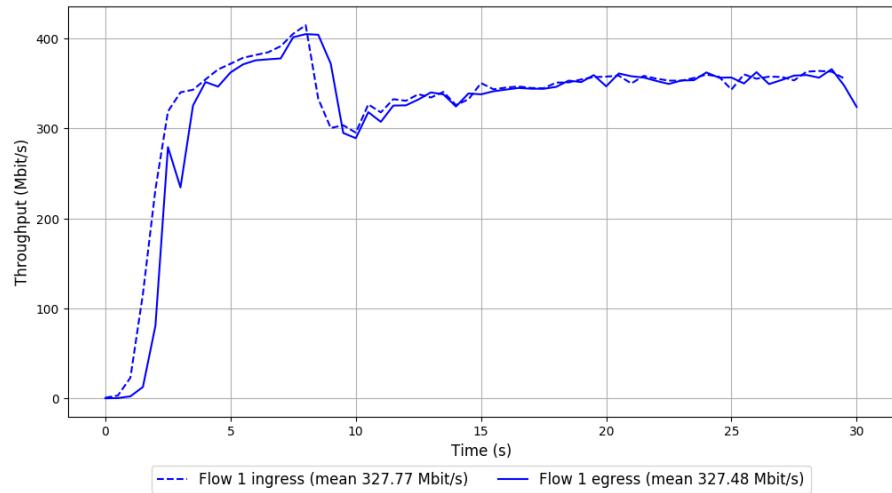


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-19 06:27:42
End at: 2019-01-19 06:28:12
Local clock offset: 0.235 ms
Remote clock offset: -38.442 ms

# Below is generated by plot.py at 2019-01-19 08:18:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 327.48 Mbit/s
95th percentile per-packet one-way delay: 139.663 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 327.48 Mbit/s
95th percentile per-packet one-way delay: 139.663 ms
Loss rate: 0.74%
```

Run 3: Report of TCP Cubic — Data Link

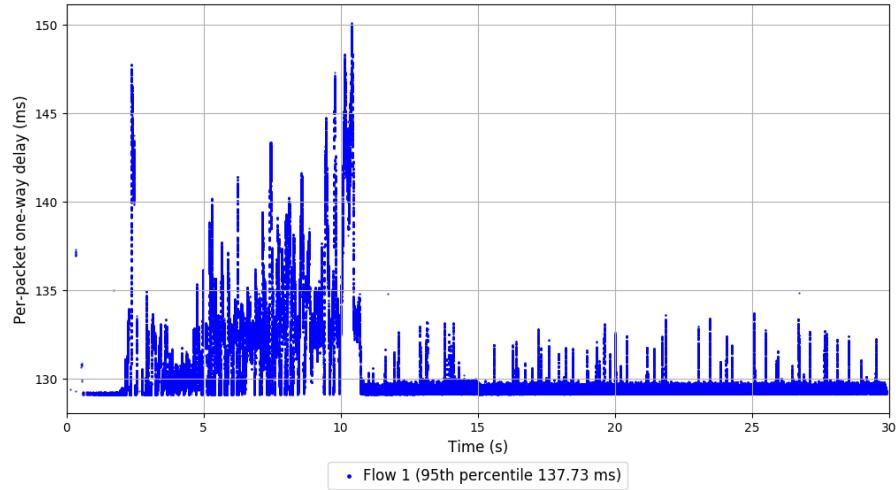
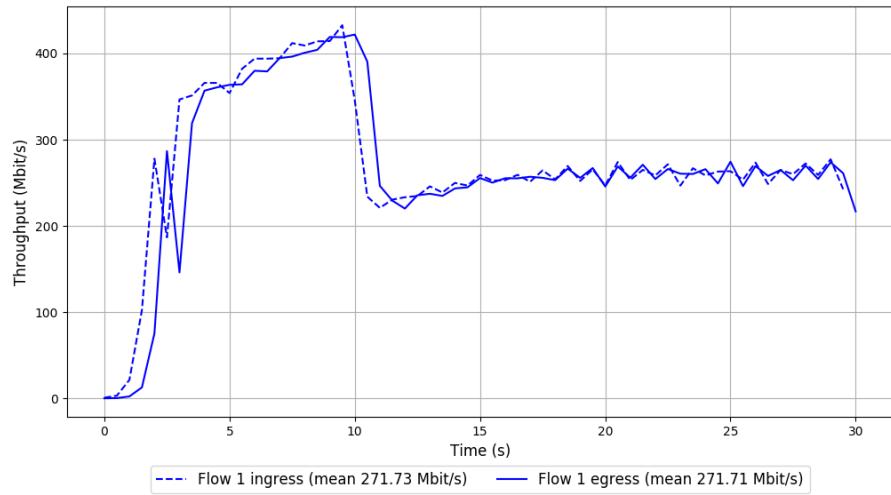


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-19 07:06:26
End at: 2019-01-19 07:06:56
Local clock offset: -0.105 ms
Remote clock offset: -32.709 ms

# Below is generated by plot.py at 2019-01-19 08:18:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 271.71 Mbit/s
95th percentile per-packet one-way delay: 137.734 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 271.71 Mbit/s
95th percentile per-packet one-way delay: 137.734 ms
Loss rate: 0.66%
```

Run 4: Report of TCP Cubic — Data Link

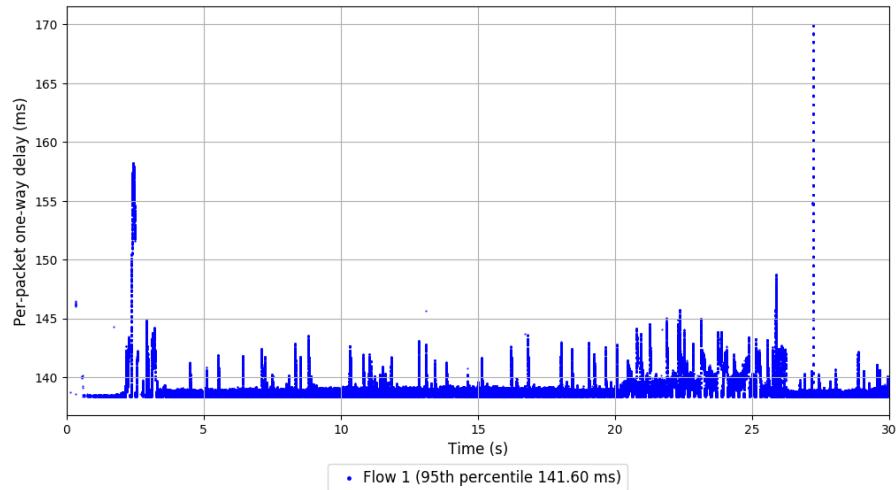
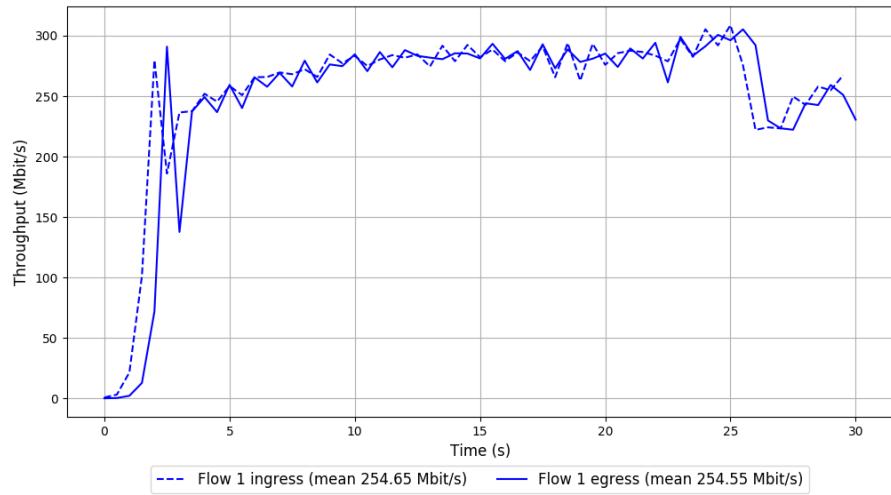


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-19 07:46:07
End at: 2019-01-19 07:46:37
Local clock offset: -1.186 ms
Remote clock offset: -41.911 ms

# Below is generated by plot.py at 2019-01-19 08:18:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.55 Mbit/s
95th percentile per-packet one-way delay: 141.603 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 254.55 Mbit/s
95th percentile per-packet one-way delay: 141.603 ms
Loss rate: 0.69%
```

Run 5: Report of TCP Cubic — Data Link

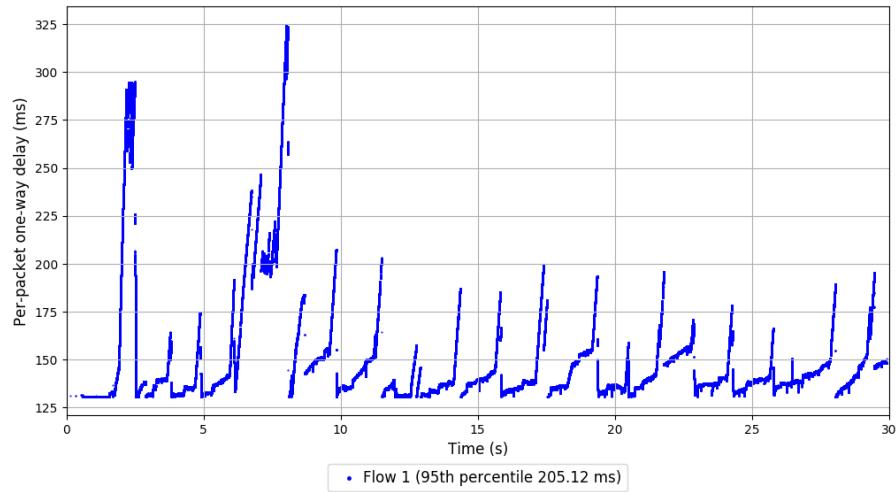
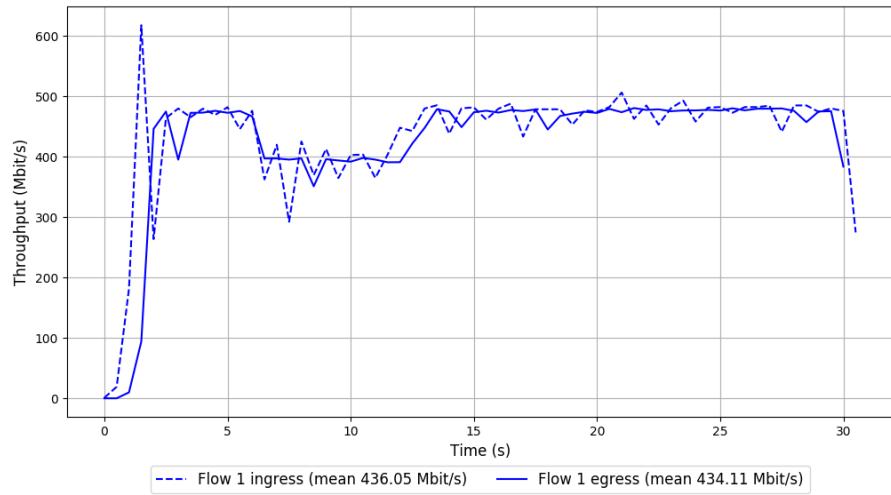


```
Run 1: Statistics of FillP

Start at: 2019-01-19 05:49:59
End at: 2019-01-19 05:50:29
Local clock offset: 0.71 ms
Remote clock offset: -33.689 ms

# Below is generated by plot.py at 2019-01-19 08:20:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 434.11 Mbit/s
95th percentile per-packet one-way delay: 205.120 ms
Loss rate: 3.73%
-- Flow 1:
Average throughput: 434.11 Mbit/s
95th percentile per-packet one-way delay: 205.120 ms
Loss rate: 3.73%
```

Run 1: Report of FillP — Data Link

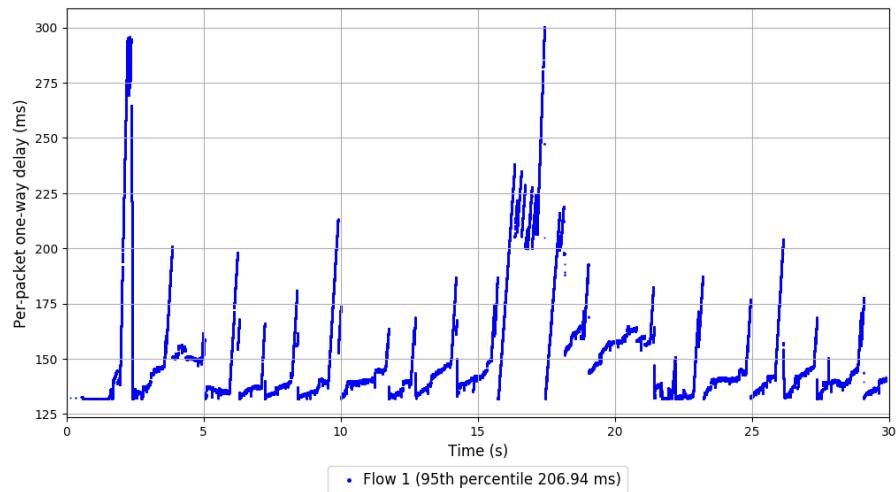
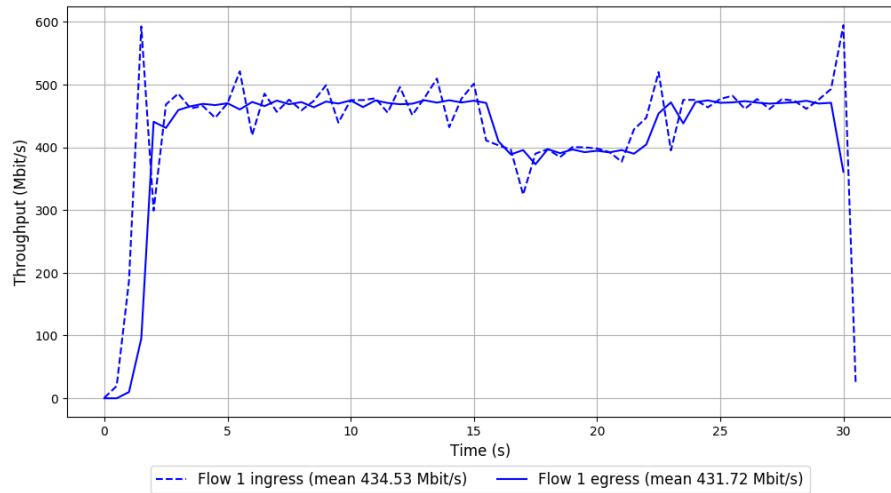


Run 2: Statistics of FillP

```
Start at: 2019-01-19 06:18:08
End at: 2019-01-19 06:18:38
Local clock offset: 0.469 ms
Remote clock offset: -36.02 ms

# Below is generated by plot.py at 2019-01-19 08:21:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 431.72 Mbit/s
95th percentile per-packet one-way delay: 206.940 ms
Loss rate: 3.40%
-- Flow 1:
Average throughput: 431.72 Mbit/s
95th percentile per-packet one-way delay: 206.940 ms
Loss rate: 3.40%
```

Run 2: Report of FillP — Data Link

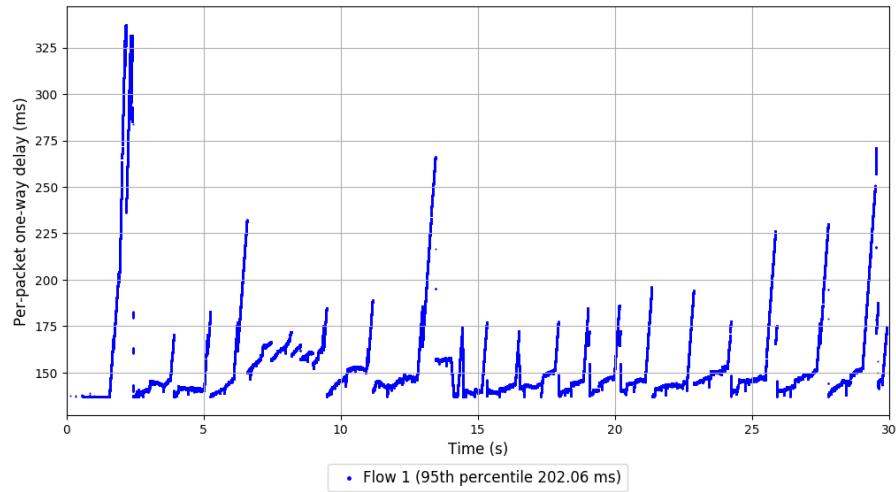
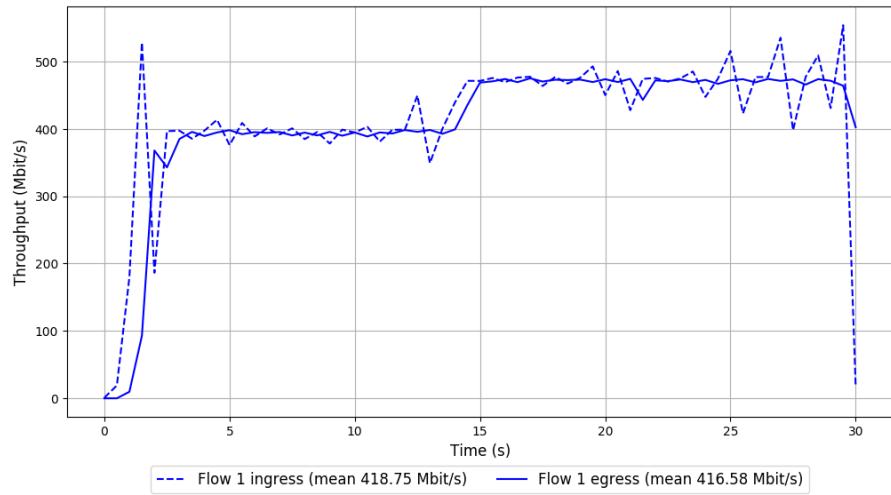


```
Run 3: Statistics of FillP
```

```
Start at: 2019-01-19 06:51:44
End at: 2019-01-19 06:52:14
Local clock offset: 1.0 ms
Remote clock offset: -41.017 ms

# Below is generated by plot.py at 2019-01-19 08:21:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 416.58 Mbit/s
95th percentile per-packet one-way delay: 202.055 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 416.58 Mbit/s
95th percentile per-packet one-way delay: 202.055 ms
Loss rate: 1.29%
```

Run 3: Report of FillP — Data Link

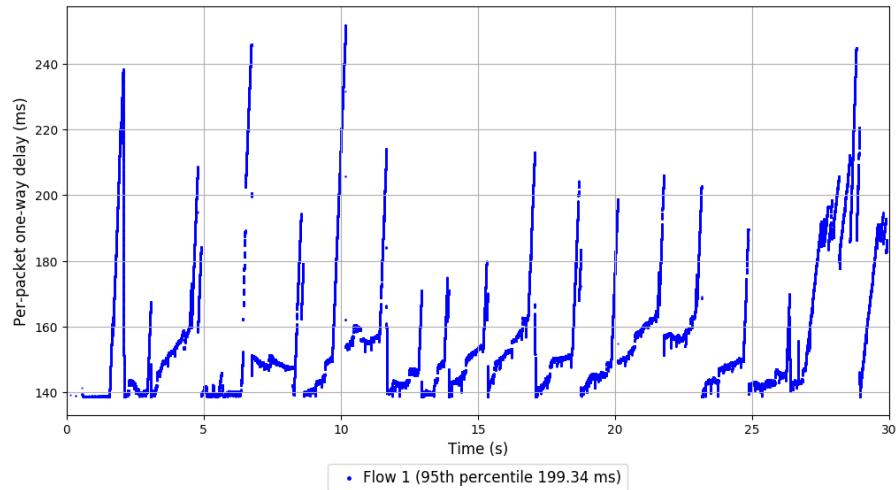
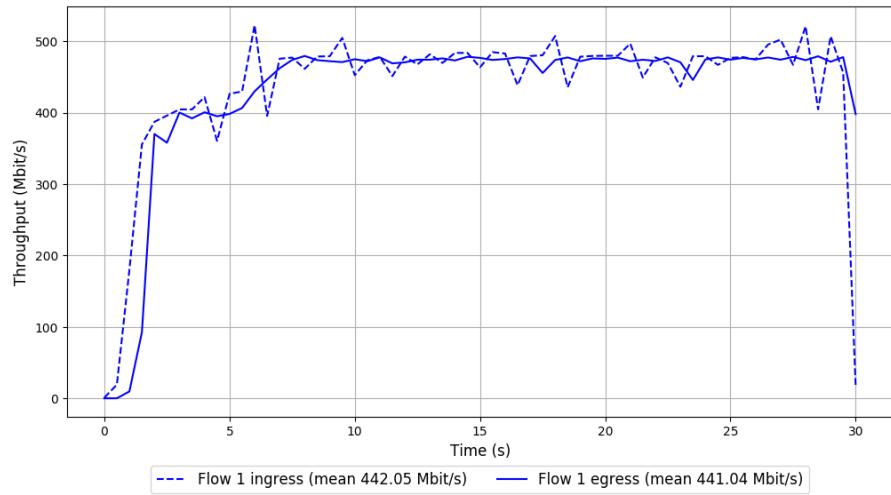


Run 4: Statistics of FillP

```
Start at: 2019-01-19 07:30:56
End at: 2019-01-19 07:31:26
Local clock offset: -1.644 ms
Remote clock offset: -43.062 ms

# Below is generated by plot.py at 2019-01-19 08:22:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 441.04 Mbit/s
95th percentile per-packet one-way delay: 199.337 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 441.04 Mbit/s
95th percentile per-packet one-way delay: 199.337 ms
Loss rate: 1.01%
```

Run 4: Report of FillP — Data Link

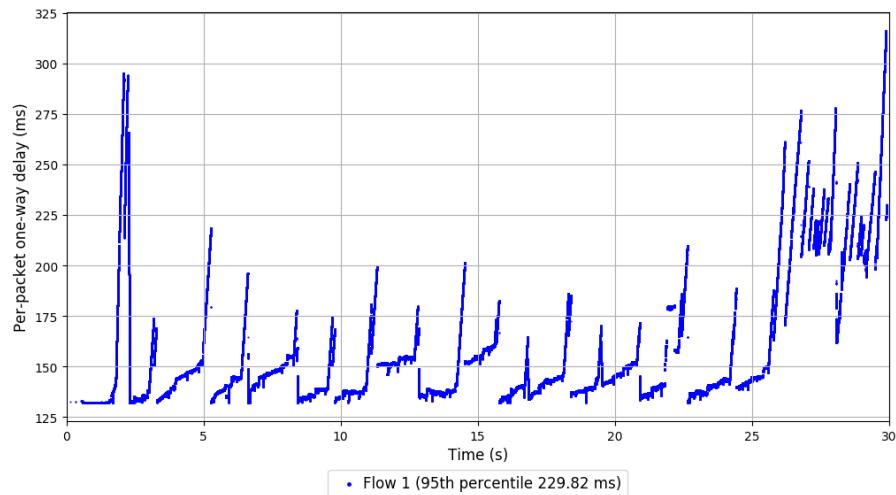
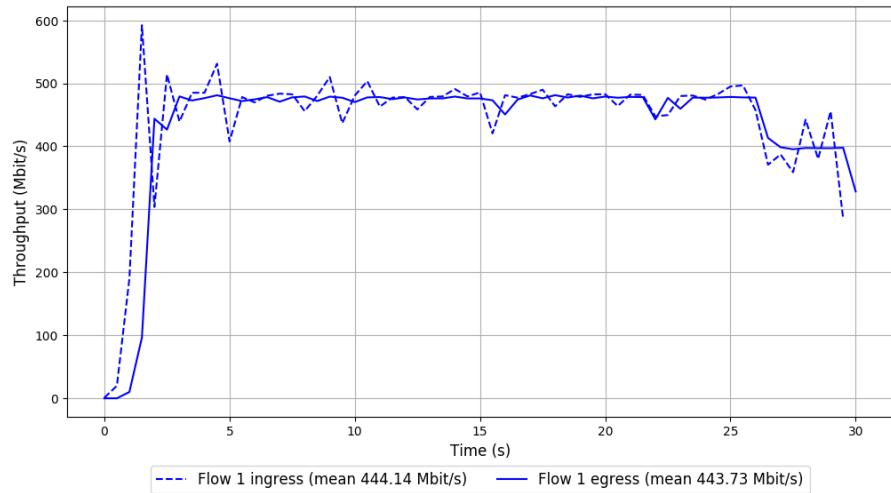


Run 5: Statistics of FillP

```
Start at: 2019-01-19 08:04:40
End at: 2019-01-19 08:05:10
Local clock offset: 0.089 ms
Remote clock offset: -35.021 ms

# Below is generated by plot.py at 2019-01-19 08:23:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 443.73 Mbit/s
95th percentile per-packet one-way delay: 229.820 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 443.73 Mbit/s
95th percentile per-packet one-way delay: 229.820 ms
Loss rate: 0.76%
```

Run 5: Report of FillP — Data Link

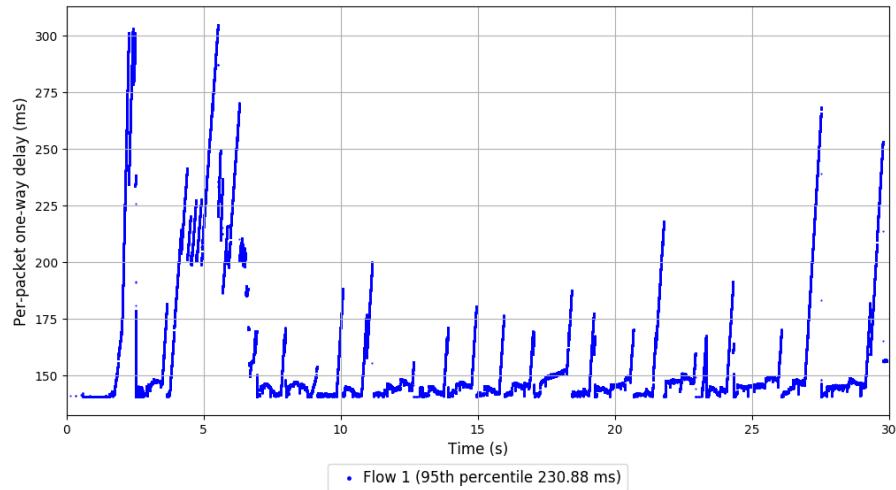
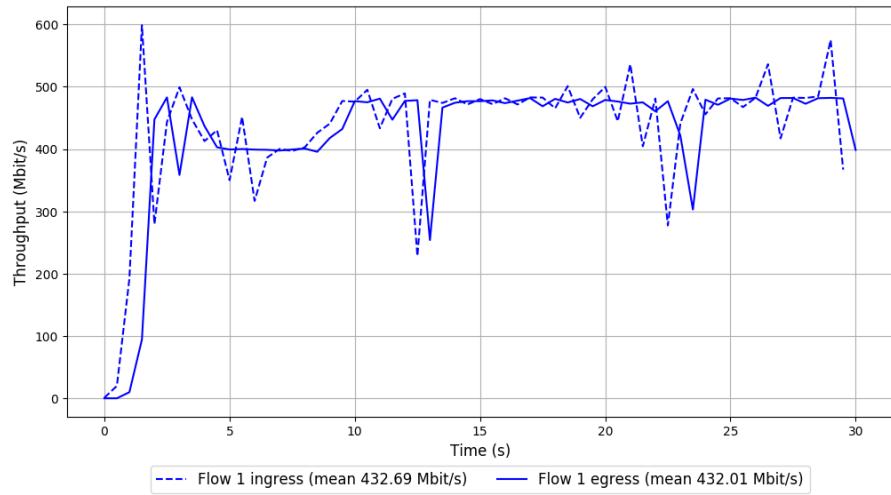


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-19 05:33:38
End at: 2019-01-19 05:34:08
Local clock offset: 3.219 ms
Remote clock offset: -41.686 ms

# Below is generated by plot.py at 2019-01-19 08:23:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 432.01 Mbit/s
95th percentile per-packet one-way delay: 230.885 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 432.01 Mbit/s
95th percentile per-packet one-way delay: 230.885 ms
Loss rate: 0.81%
```

Run 1: Report of FillP-Sheep — Data Link

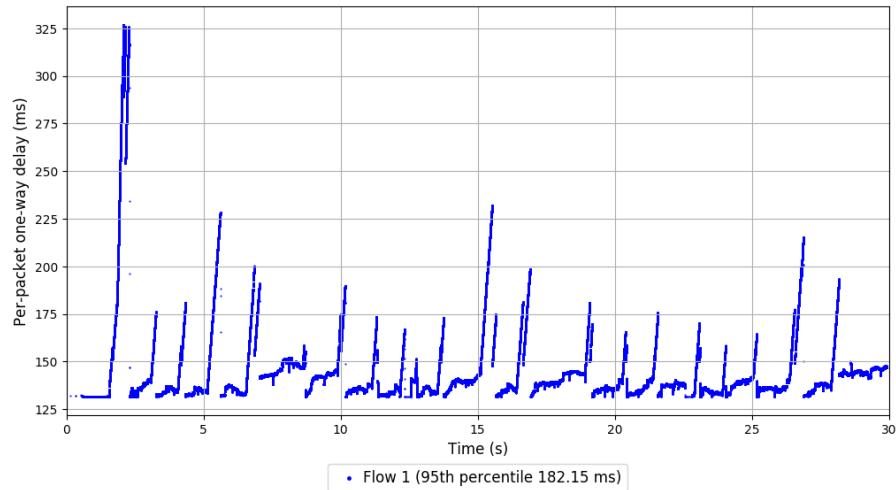
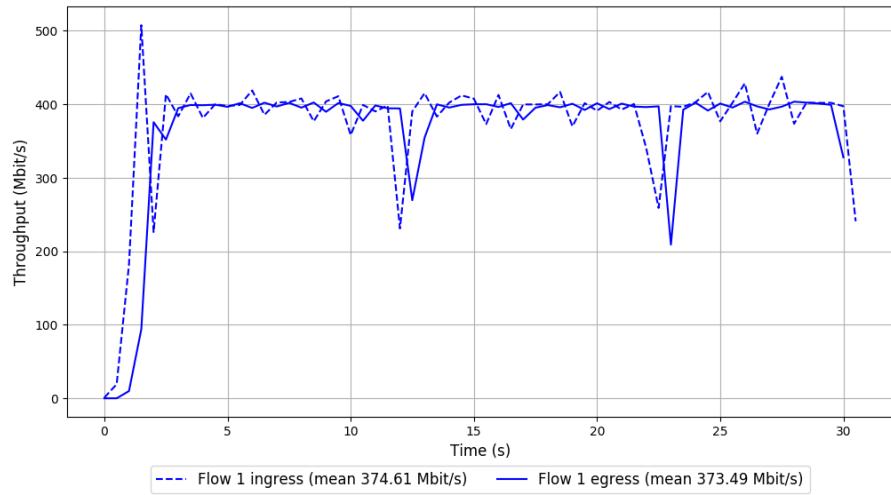


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-19 06:07:20
End at: 2019-01-19 06:07:50
Local clock offset: 0.474 ms
Remote clock offset: -36.561 ms

# Below is generated by plot.py at 2019-01-19 08:23:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 373.49 Mbit/s
95th percentile per-packet one-way delay: 182.145 ms
Loss rate: 3.62%
-- Flow 1:
Average throughput: 373.49 Mbit/s
95th percentile per-packet one-way delay: 182.145 ms
Loss rate: 3.62%
```

Run 2: Report of FillP-Sheep — Data Link

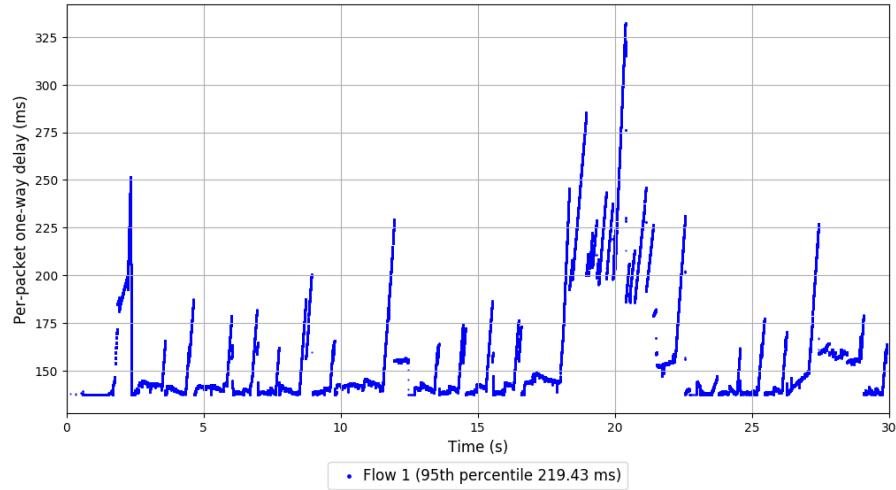
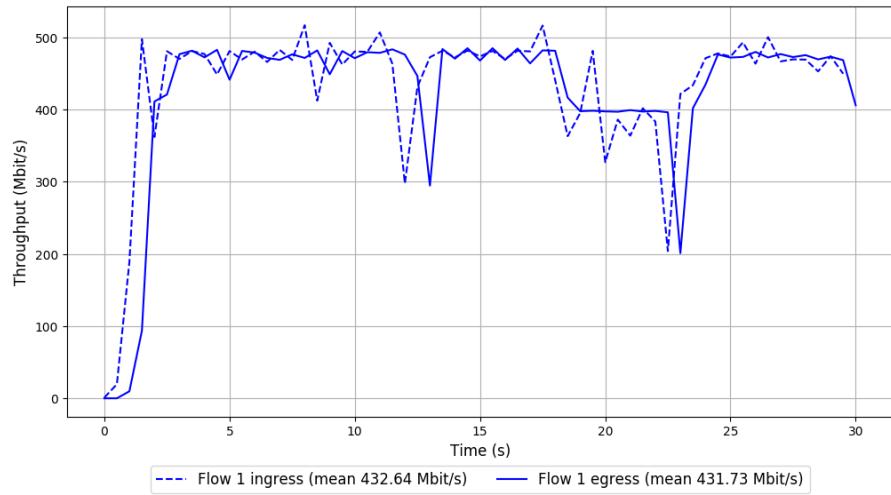


```
Run 3: Statistics of FillP-Sheep
```

```
Start at: 2019-01-19 06:41:03
End at: 2019-01-19 06:41:33
Local clock offset: 0.788 ms
Remote clock offset: -43.709 ms

# Below is generated by plot.py at 2019-01-19 08:23:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 431.73 Mbit/s
95th percentile per-packet one-way delay: 219.431 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 431.73 Mbit/s
95th percentile per-packet one-way delay: 219.431 ms
Loss rate: 0.73%
```

Run 3: Report of FillP-Sheep — Data Link

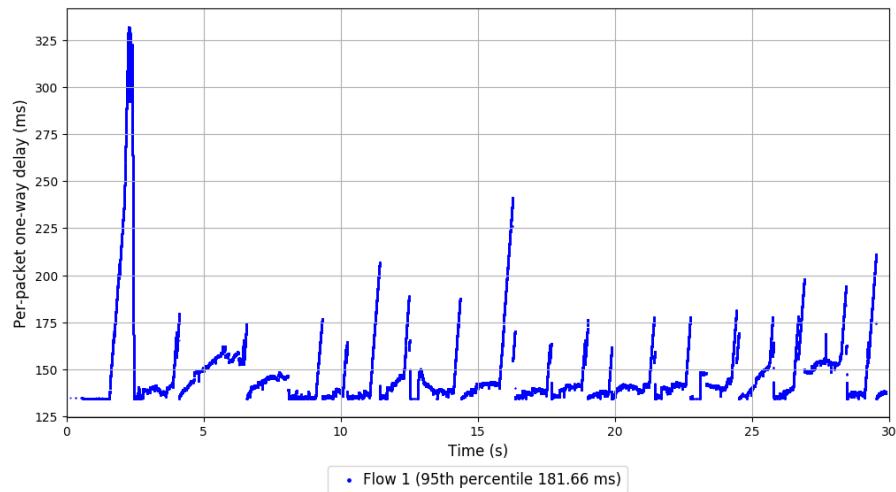
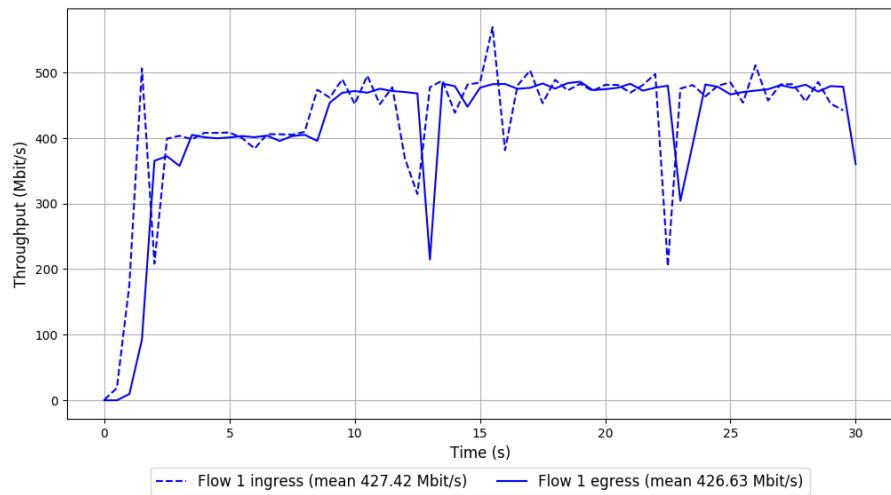


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-19 07:14:13
End at: 2019-01-19 07:14:43
Local clock offset: -1.464 ms
Remote clock offset: -38.807 ms

# Below is generated by plot.py at 2019-01-19 08:26:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 426.63 Mbit/s
95th percentile per-packet one-way delay: 181.657 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 426.63 Mbit/s
95th percentile per-packet one-way delay: 181.657 ms
Loss rate: 0.85%
```

Run 4: Report of FillP-Sheep — Data Link

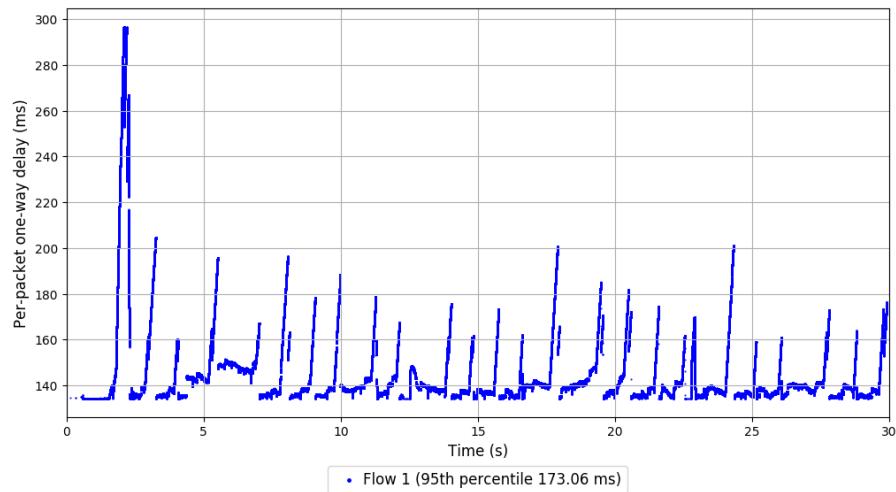
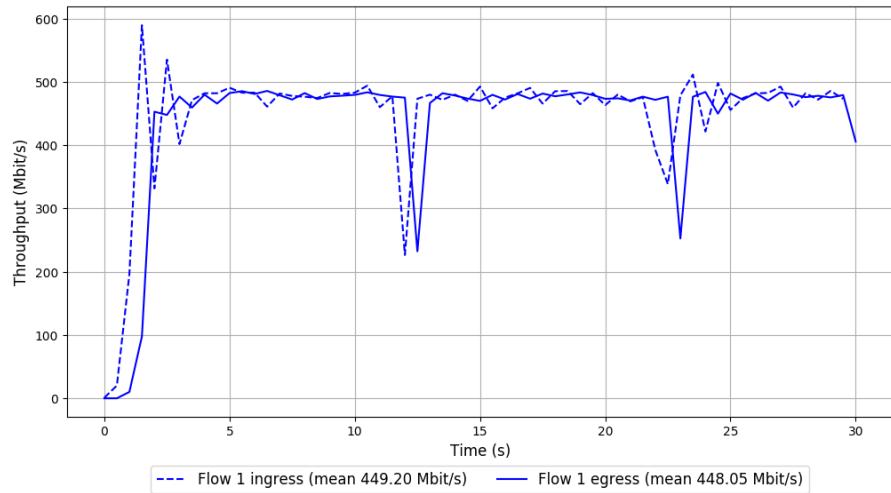


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-19 07:53:55
End at: 2019-01-19 07:54:25
Local clock offset: 0.277 ms
Remote clock offset: -38.216 ms

# Below is generated by plot.py at 2019-01-19 08:27:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 448.05 Mbit/s
95th percentile per-packet one-way delay: 173.057 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 448.05 Mbit/s
95th percentile per-packet one-way delay: 173.057 ms
Loss rate: 0.77%
```

Run 5: Report of FillP-Sheep — Data Link

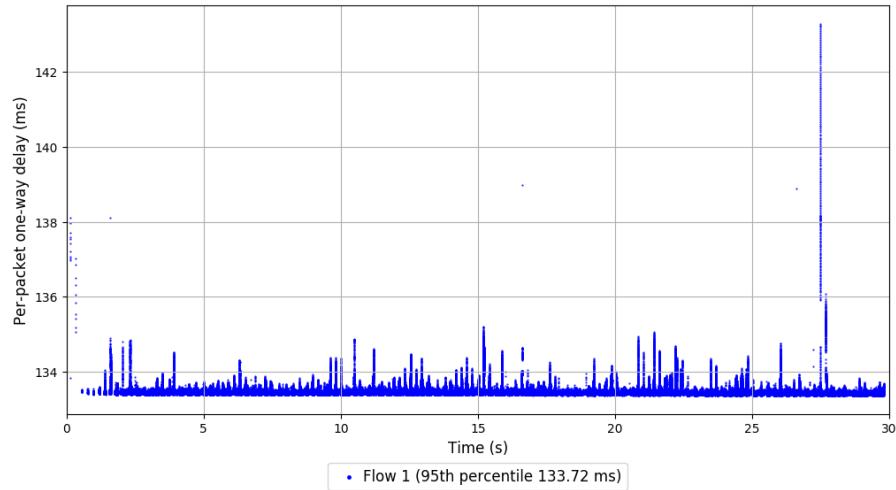
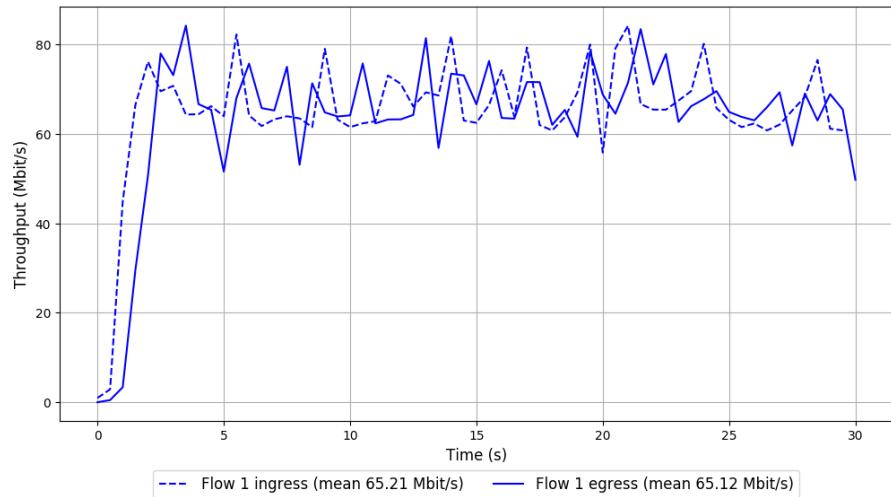


Run 1: Statistics of Indigo

```
Start at: 2019-01-19 05:21:58
End at: 2019-01-19 05:22:28
Local clock offset: -1.344 ms
Remote clock offset: -38.793 ms

# Below is generated by plot.py at 2019-01-19 08:27:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.12 Mbit/s
95th percentile per-packet one-way delay: 133.722 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 65.12 Mbit/s
95th percentile per-packet one-way delay: 133.722 ms
Loss rate: 0.79%
```

Run 1: Report of Indigo — Data Link

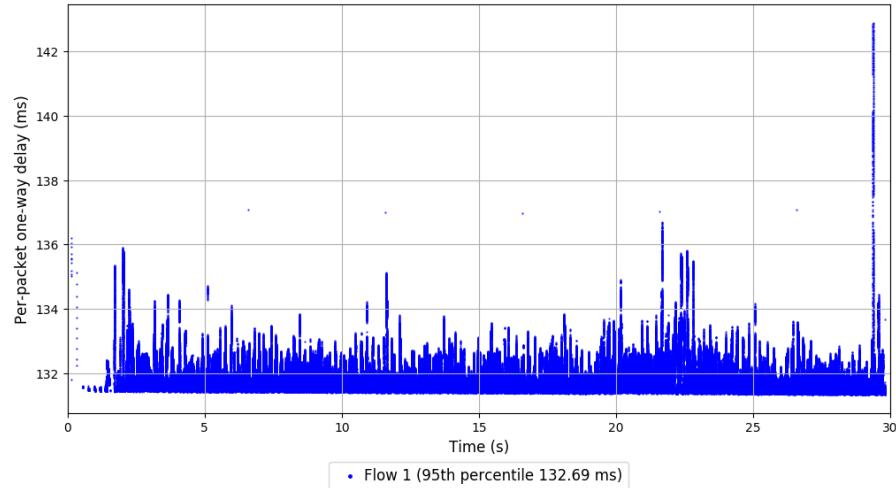
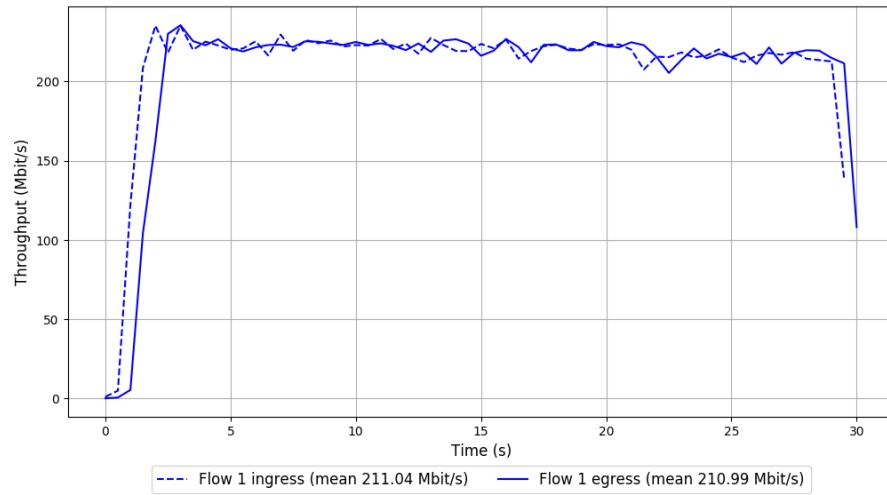


Run 2: Statistics of Indigo

```
Start at: 2019-01-19 05:55:40
End at: 2019-01-19 05:56:10
Local clock offset: -0.167 ms
Remote clock offset: -35.304 ms

# Below is generated by plot.py at 2019-01-19 08:27:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.99 Mbit/s
95th percentile per-packet one-way delay: 132.695 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 210.99 Mbit/s
95th percentile per-packet one-way delay: 132.695 ms
Loss rate: 0.66%
```

Run 2: Report of Indigo — Data Link

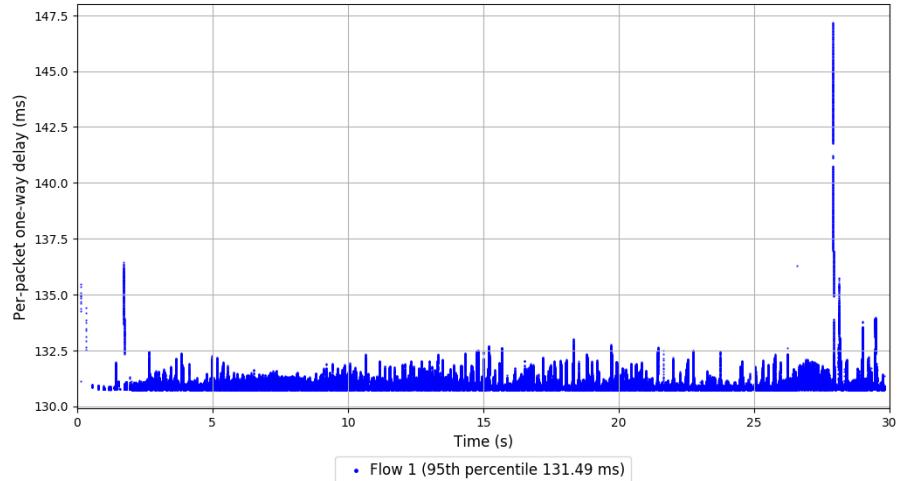
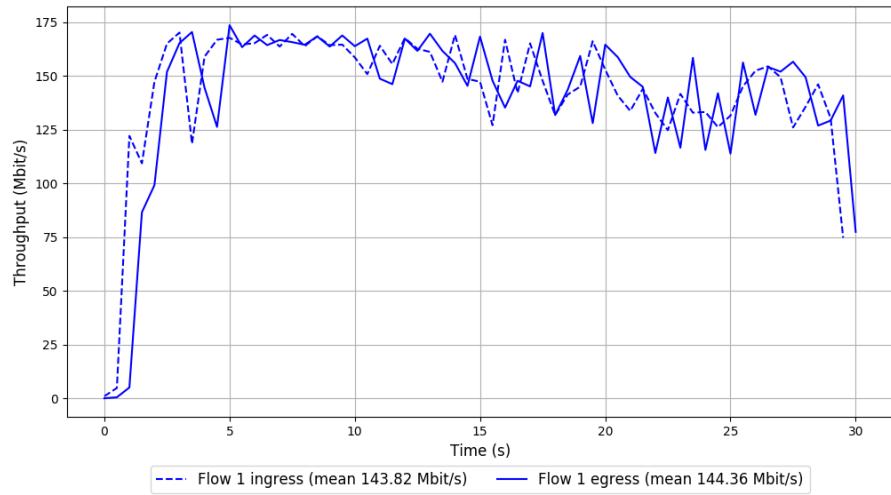


Run 3: Statistics of Indigo

```
Start at: 2019-01-19 06:23:47
End at: 2019-01-19 06:24:17
Local clock offset: 0.251 ms
Remote clock offset: -36.641 ms

# Below is generated by plot.py at 2019-01-19 08:27:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.36 Mbit/s
95th percentile per-packet one-way delay: 131.490 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 144.36 Mbit/s
95th percentile per-packet one-way delay: 131.490 ms
Loss rate: 0.28%
```

Run 3: Report of Indigo — Data Link

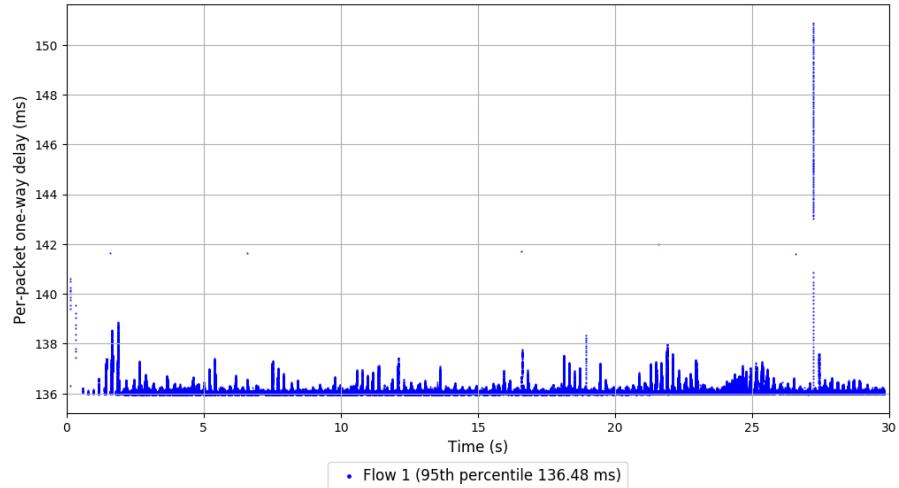
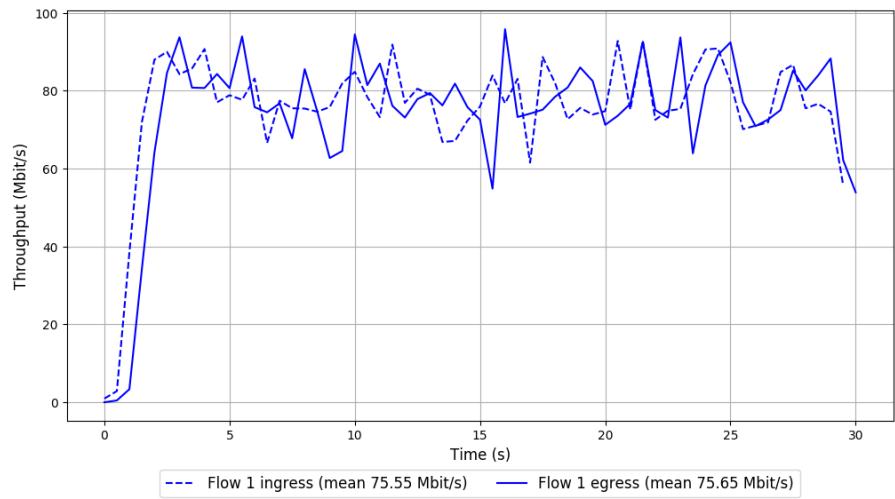


Run 4: Statistics of Indigo

```
Start at: 2019-01-19 06:57:25
End at: 2019-01-19 06:57:55
Local clock offset: 1.185 ms
Remote clock offset: -40.571 ms

# Below is generated by plot.py at 2019-01-19 08:27:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.65 Mbit/s
95th percentile per-packet one-way delay: 136.479 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 75.65 Mbit/s
95th percentile per-packet one-way delay: 136.479 ms
Loss rate: 0.51%
```

Run 4: Report of Indigo — Data Link

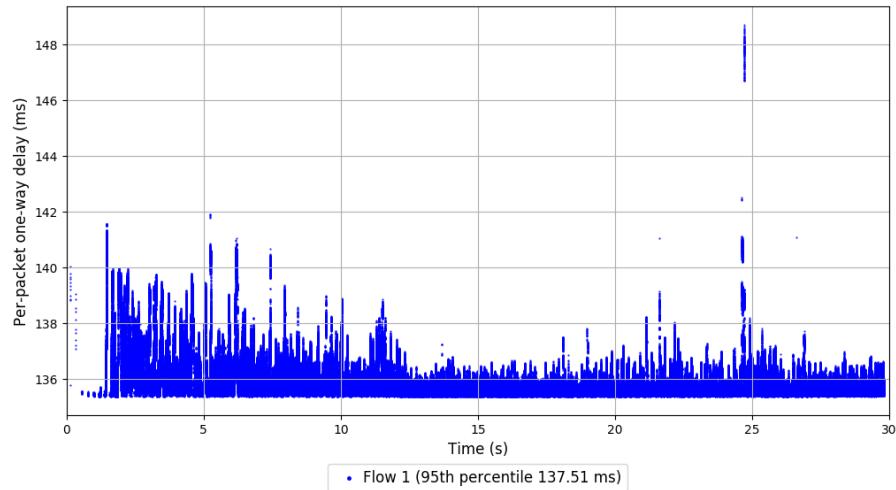
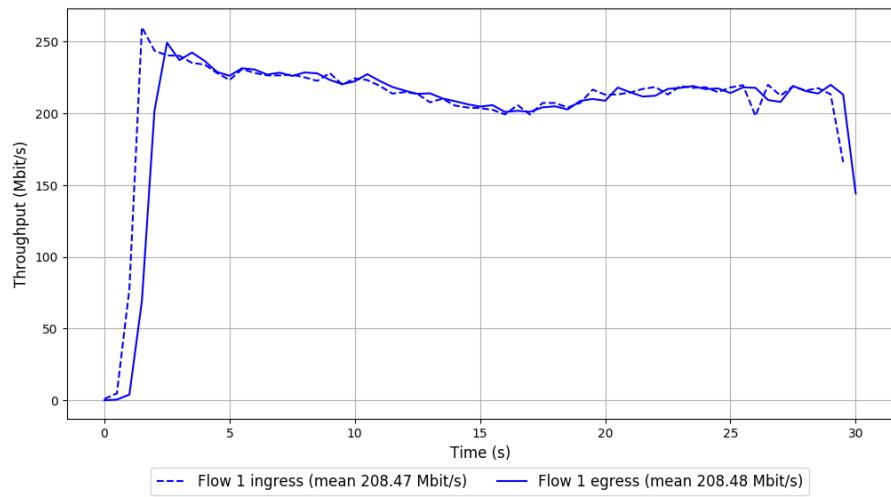


Run 5: Statistics of Indigo

```
Start at: 2019-01-19 07:36:38
End at: 2019-01-19 07:37:08
Local clock offset: -0.045 ms
Remote clock offset: -37.929 ms

# Below is generated by plot.py at 2019-01-19 08:27:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.48 Mbit/s
95th percentile per-packet one-way delay: 137.507 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 208.48 Mbit/s
95th percentile per-packet one-way delay: 137.507 ms
Loss rate: 0.65%
```

Run 5: Report of Indigo — Data Link

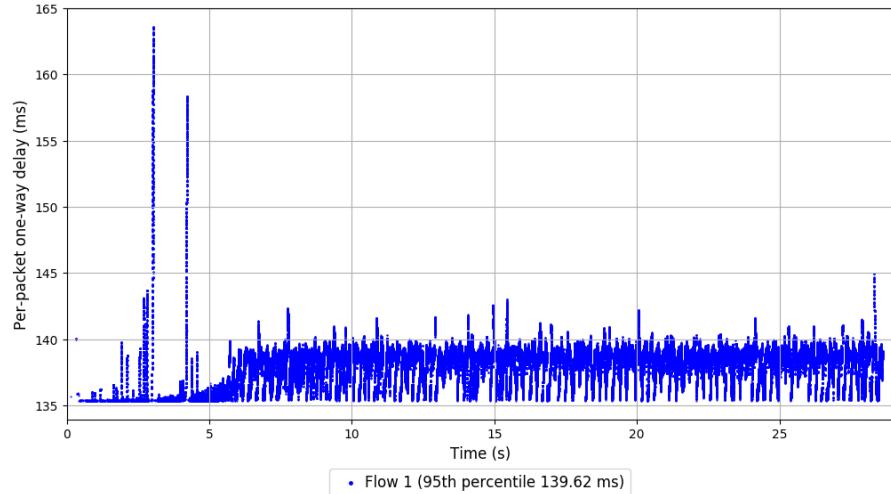
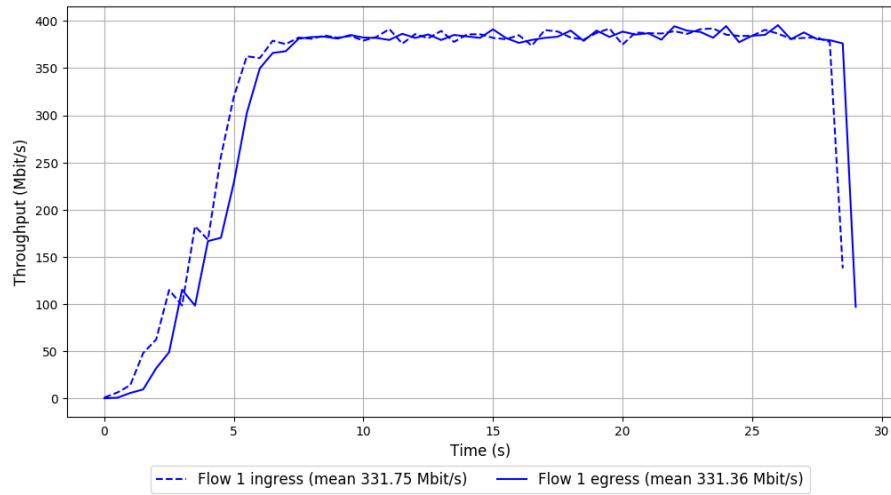


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-01-19 05:37:51
End at: 2019-01-19 05:38:21
Local clock offset: 3.29 ms
Remote clock offset: -36.276 ms

# Below is generated by plot.py at 2019-01-19 08:27:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.36 Mbit/s
95th percentile per-packet one-way delay: 139.616 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 331.36 Mbit/s
95th percentile per-packet one-way delay: 139.616 ms
Loss rate: 0.80%
```

Run 1: Report of Indigo-MusesC3 — Data Link

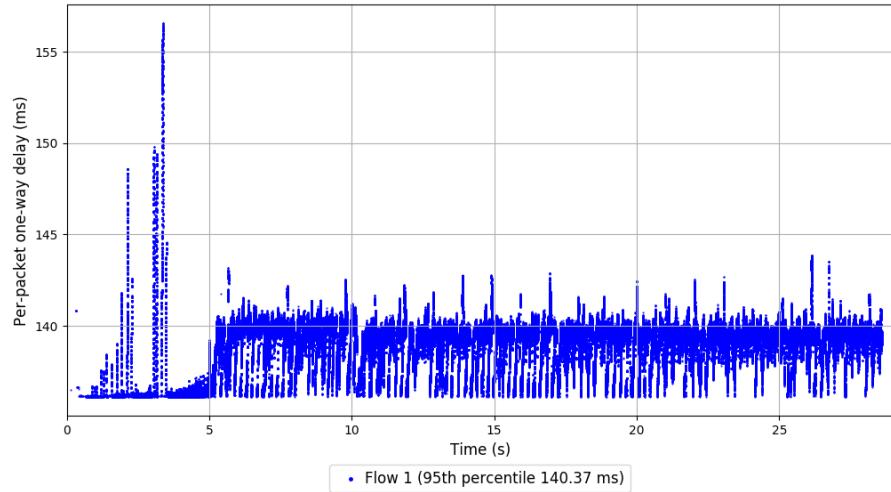
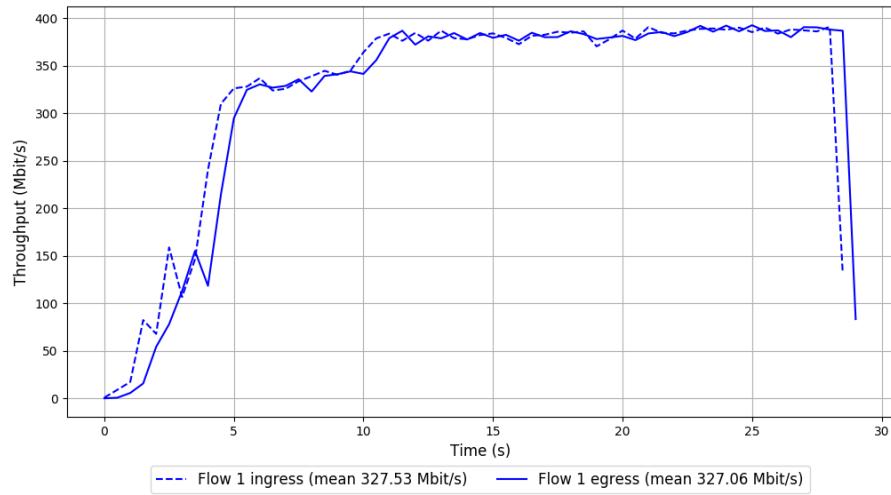


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 06:11:32
End at: 2019-01-19 06:12:02
Local clock offset: 0.234 ms
Remote clock offset: -40.053 ms

# Below is generated by plot.py at 2019-01-19 08:27:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 327.06 Mbit/s
95th percentile per-packet one-way delay: 140.372 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 327.06 Mbit/s
95th percentile per-packet one-way delay: 140.372 ms
Loss rate: 0.84%
```

Run 2: Report of Indigo-MusesC3 — Data Link

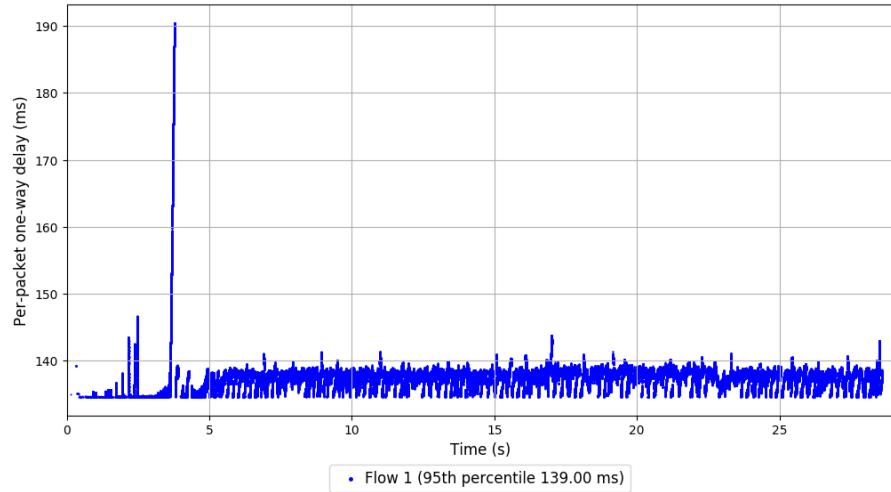
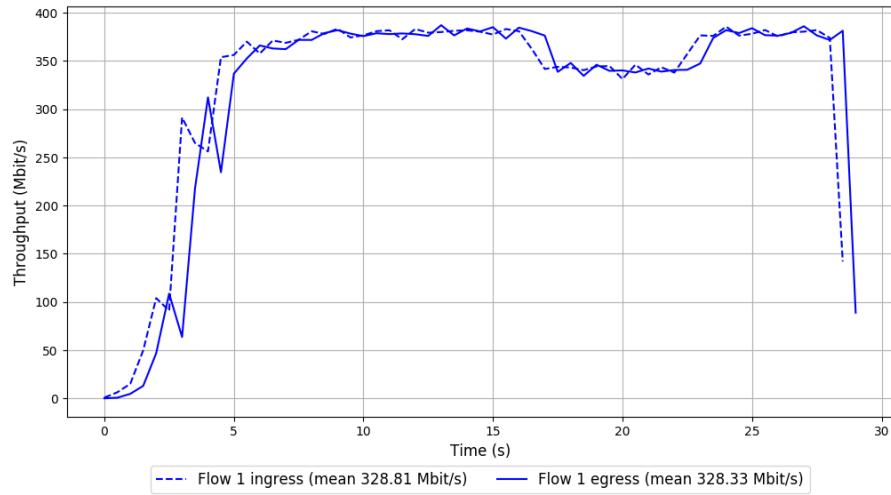


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 06:45:17
End at: 2019-01-19 06:45:47
Local clock offset: 0.011 ms
Remote clock offset: -40.027 ms

# Below is generated by plot.py at 2019-01-19 08:27:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.33 Mbit/s
95th percentile per-packet one-way delay: 139.003 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 328.33 Mbit/s
95th percentile per-packet one-way delay: 139.003 ms
Loss rate: 0.83%
```

Run 3: Report of Indigo-MusesC3 — Data Link

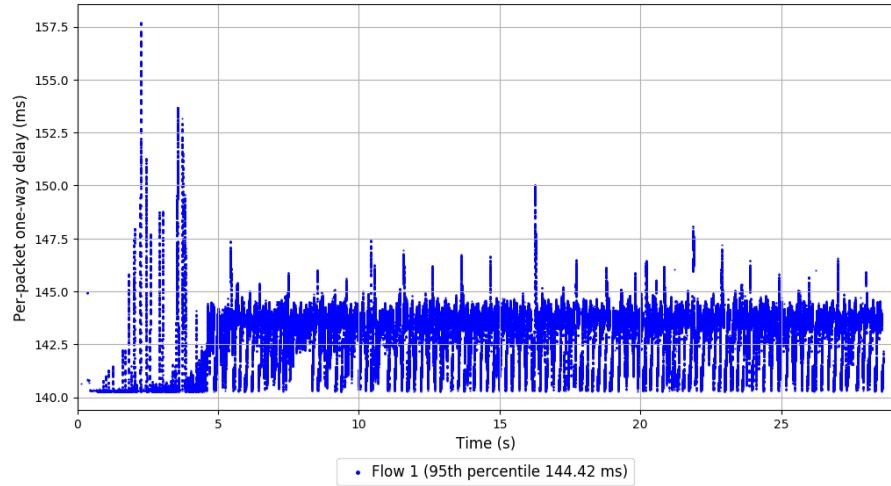
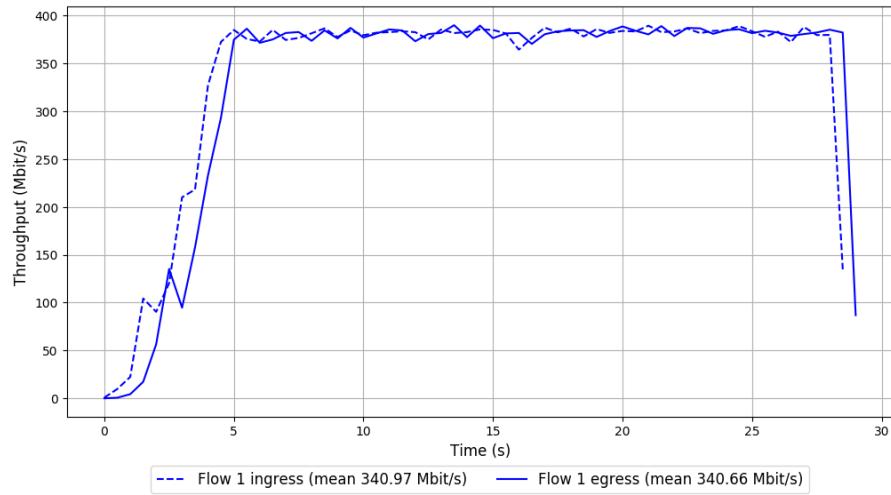


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 07:18:21
End at: 2019-01-19 07:18:51
Local clock offset: -0.16 ms
Remote clock offset: -43.006 ms

# Below is generated by plot.py at 2019-01-19 08:27:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 340.66 Mbit/s
95th percentile per-packet one-way delay: 144.416 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 340.66 Mbit/s
95th percentile per-packet one-way delay: 144.416 ms
Loss rate: 0.78%
```

Run 4: Report of Indigo-MusesC3 — Data Link

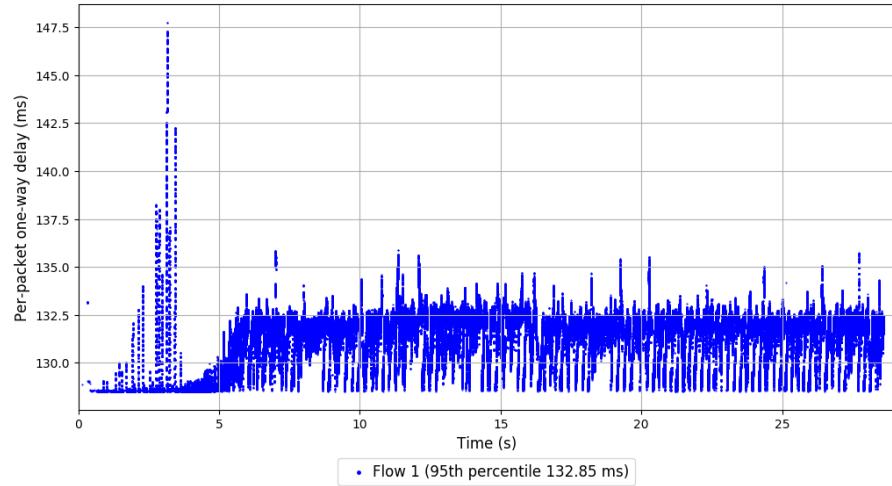
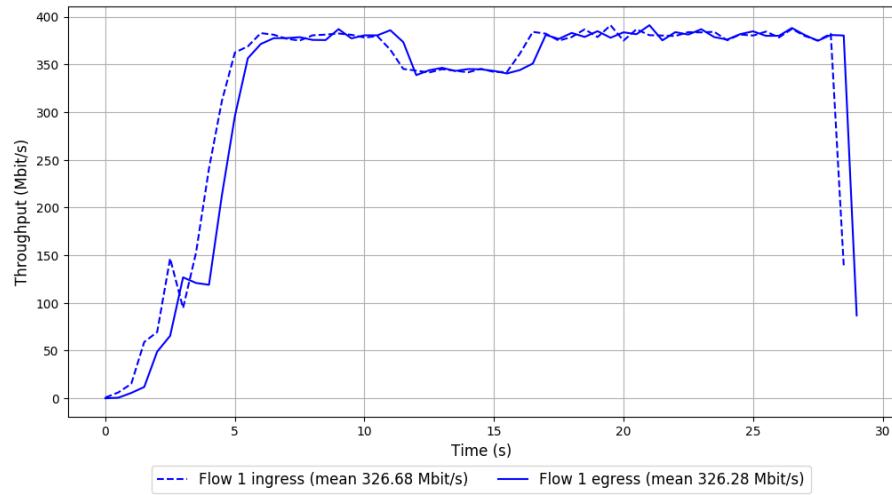


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-19 07:58:09
End at: 2019-01-19 07:58:39
Local clock offset: 0.882 ms
Remote clock offset: -30.379 ms

# Below is generated by plot.py at 2019-01-19 08:28:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.28 Mbit/s
95th percentile per-packet one-way delay: 132.848 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 326.28 Mbit/s
95th percentile per-packet one-way delay: 132.848 ms
Loss rate: 0.81%
```

Run 5: Report of Indigo-MusesC3 — Data Link

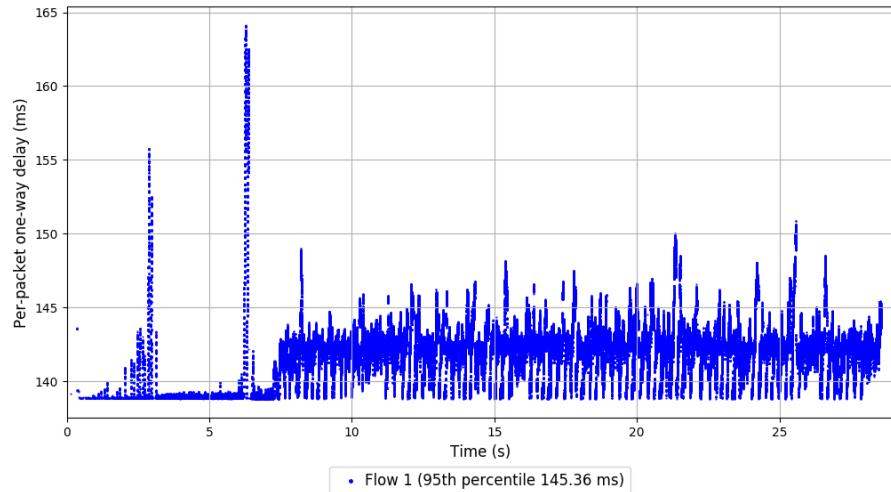
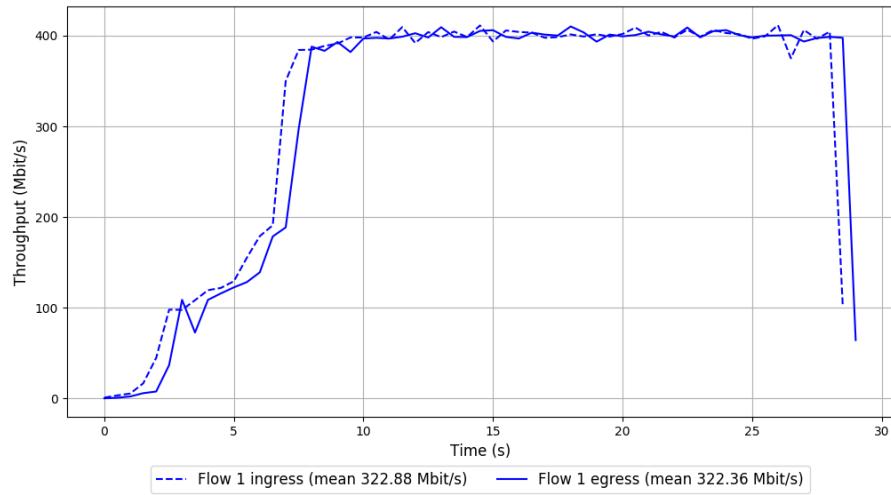


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-19 05:19:10
End at: 2019-01-19 05:19:40
Local clock offset: -0.489 ms
Remote clock offset: -41.799 ms

# Below is generated by plot.py at 2019-01-19 08:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.36 Mbit/s
95th percentile per-packet one-way delay: 145.363 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 322.36 Mbit/s
95th percentile per-packet one-way delay: 145.363 ms
Loss rate: 0.85%
```

Run 1: Report of Indigo-MusesC5 — Data Link

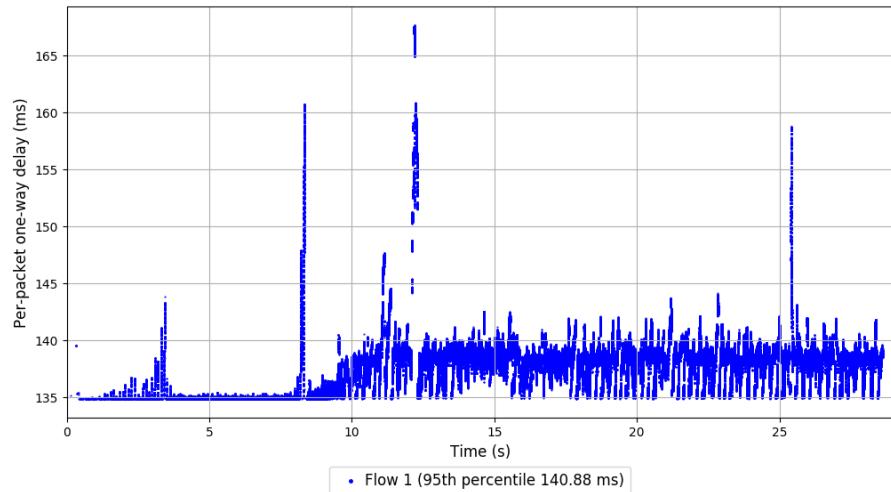
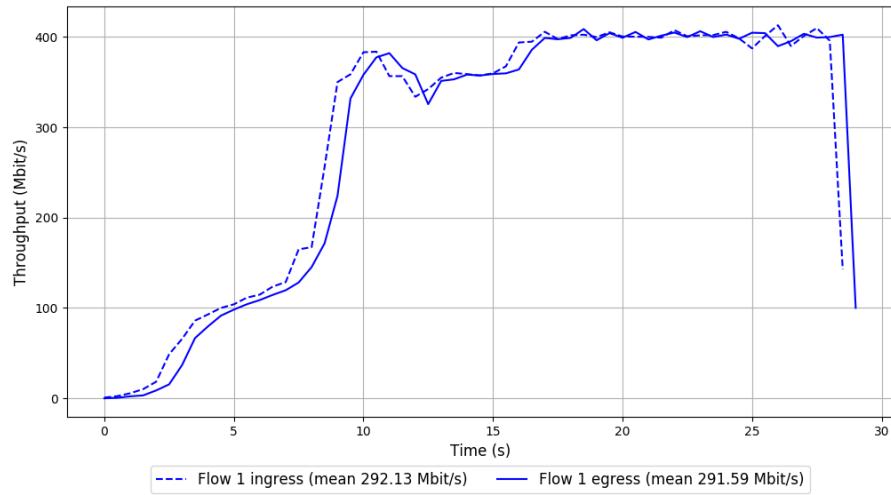


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 05:52:54
End at: 2019-01-19 05:53:24
Local clock offset: 0.901 ms
Remote clock offset: -37.447 ms

# Below is generated by plot.py at 2019-01-19 08:29:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 291.59 Mbit/s
95th percentile per-packet one-way delay: 140.876 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 291.59 Mbit/s
95th percentile per-packet one-way delay: 140.876 ms
Loss rate: 0.94%
```

Run 2: Report of Indigo-MusesC5 — Data Link

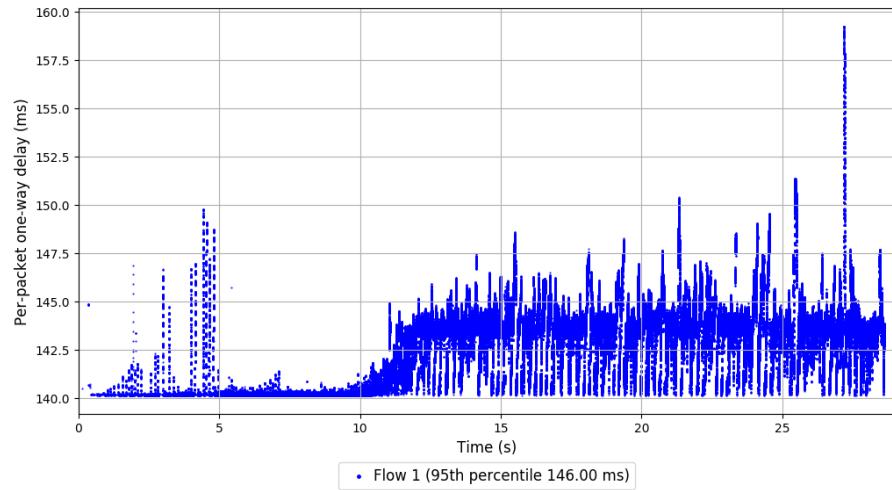
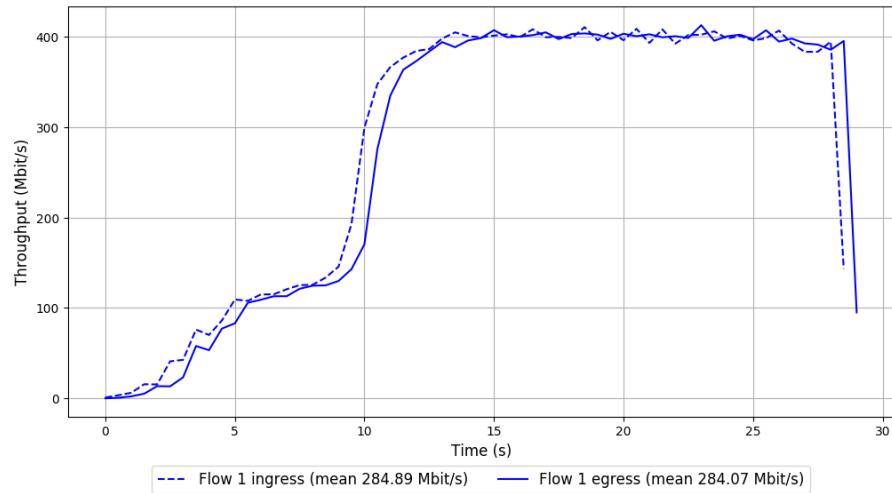


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 06:21:03
End at: 2019-01-19 06:21:33
Local clock offset: 1.543 ms
Remote clock offset: -44.736 ms

# Below is generated by plot.py at 2019-01-19 08:30:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 284.07 Mbit/s
95th percentile per-packet one-way delay: 145.995 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 284.07 Mbit/s
95th percentile per-packet one-way delay: 145.995 ms
Loss rate: 0.96%
```

Run 3: Report of Indigo-MusesC5 — Data Link

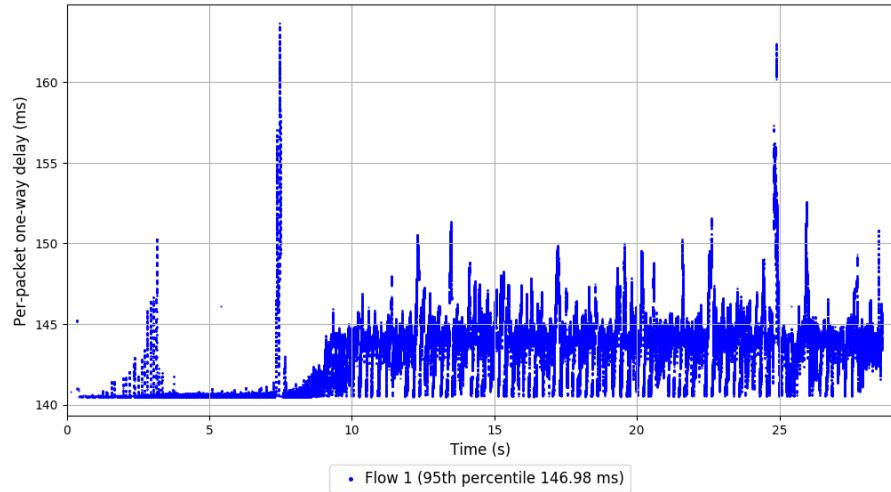
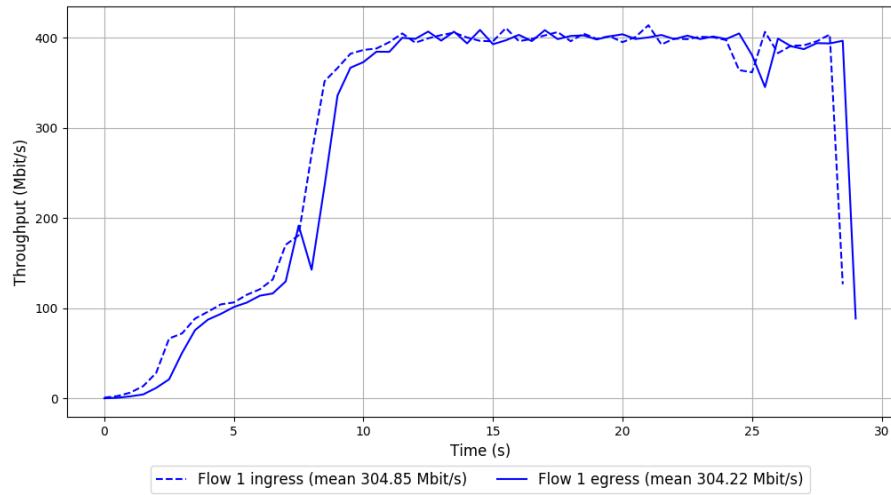


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 06:54:38
End at: 2019-01-19 06:55:08
Local clock offset: 0.022 ms
Remote clock offset: -46.436 ms

# Below is generated by plot.py at 2019-01-19 08:30:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.22 Mbit/s
95th percentile per-packet one-way delay: 146.980 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 304.22 Mbit/s
95th percentile per-packet one-way delay: 146.980 ms
Loss rate: 0.90%
```

Run 4: Report of Indigo-MusesC5 — Data Link

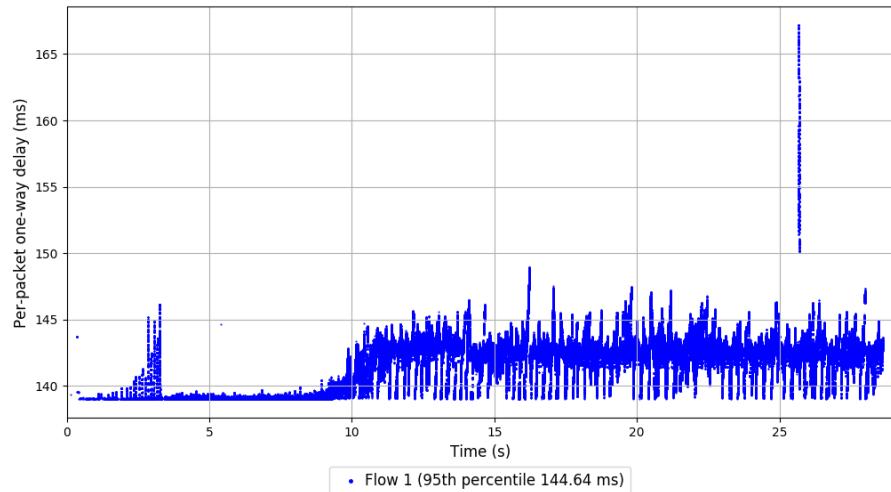
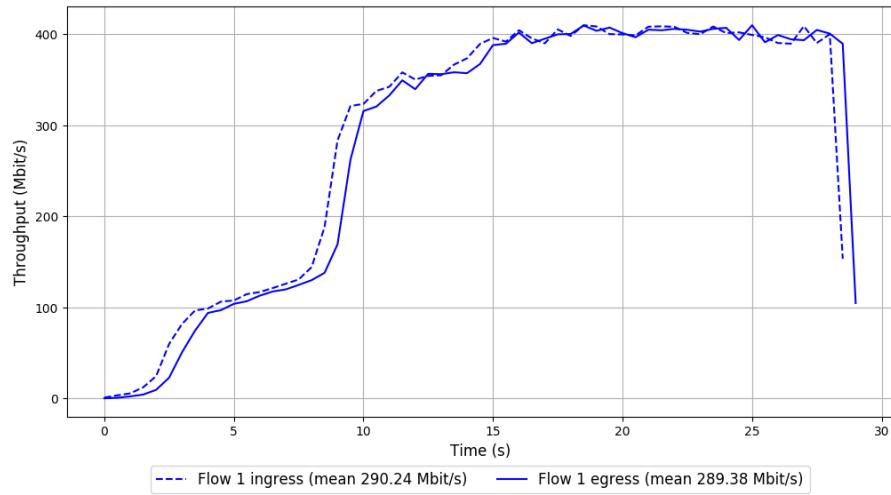


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-19 07:33:51
End at: 2019-01-19 07:34:21
Local clock offset: 0.269 ms
Remote clock offset: -41.377 ms

# Below is generated by plot.py at 2019-01-19 08:30:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 289.38 Mbit/s
95th percentile per-packet one-way delay: 144.640 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 289.38 Mbit/s
95th percentile per-packet one-way delay: 144.640 ms
Loss rate: 0.99%
```

Run 5: Report of Indigo-MusesC5 — Data Link

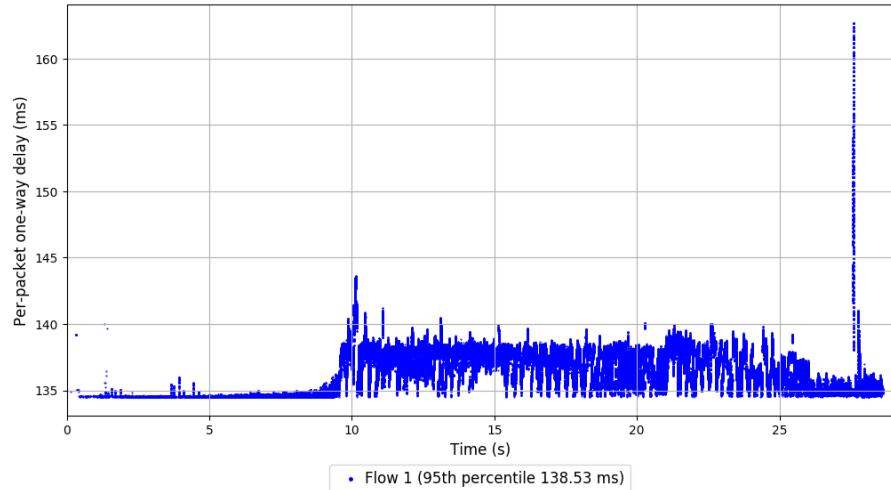
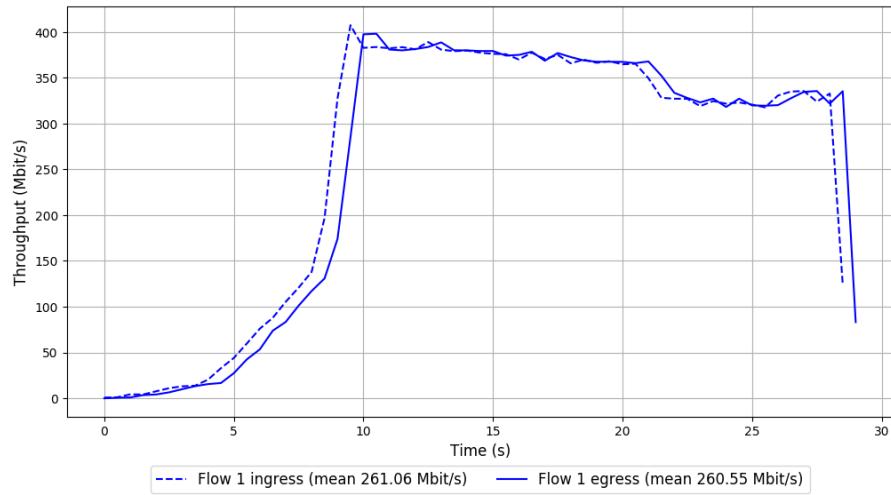


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-01-19 05:31:05
End at: 2019-01-19 05:31:35
Local clock offset: 0.486 ms
Remote clock offset: -38.282 ms

# Below is generated by plot.py at 2019-01-19 08:30:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 260.55 Mbit/s
95th percentile per-packet one-way delay: 138.531 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 260.55 Mbit/s
95th percentile per-packet one-way delay: 138.531 ms
Loss rate: 0.87%
```

Run 1: Report of Indigo-MusesD — Data Link

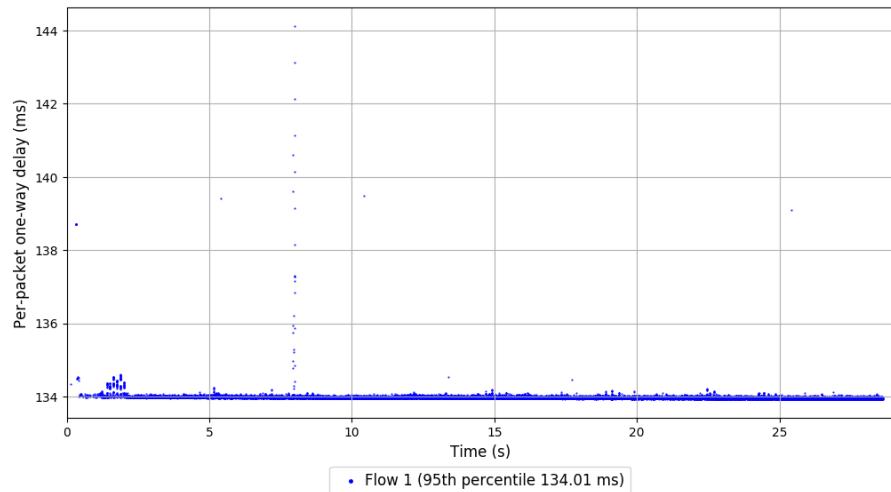
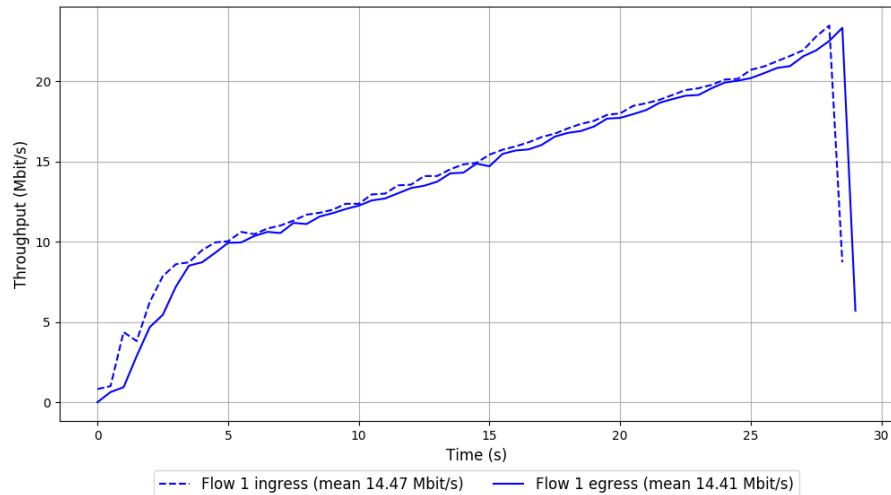


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 06:04:57
End at: 2019-01-19 06:05:27
Local clock offset: 1.529 ms
Remote clock offset: -37.625 ms

# Below is generated by plot.py at 2019-01-19 08:30:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.41 Mbit/s
95th percentile per-packet one-way delay: 134.013 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 14.41 Mbit/s
95th percentile per-packet one-way delay: 134.013 ms
Loss rate: 1.13%
```

Run 2: Report of Indigo-MusesD — Data Link

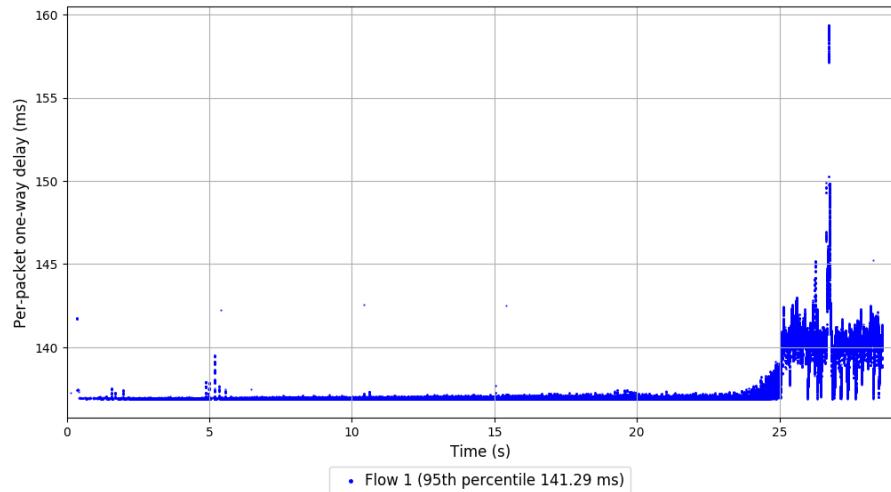
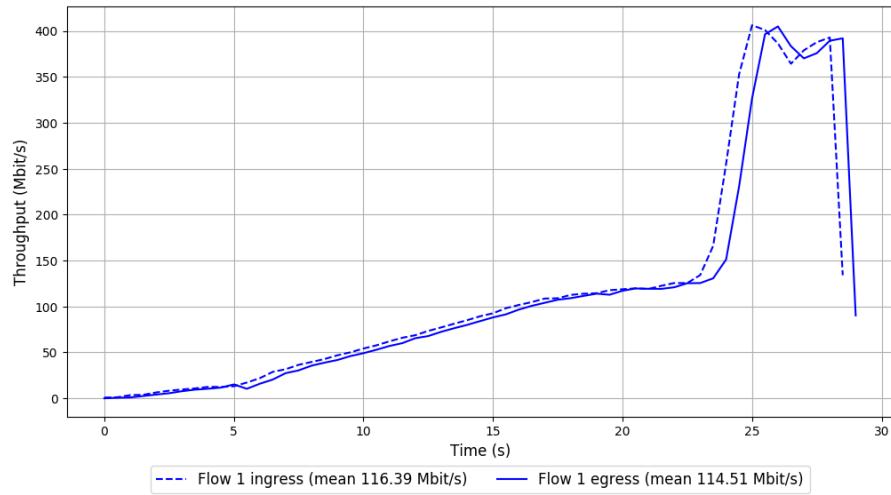


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 06:38:37
End at: 2019-01-19 06:39:07
Local clock offset: 1.914 ms
Remote clock offset: -40.239 ms

# Below is generated by plot.py at 2019-01-19 08:30:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 114.51 Mbit/s
95th percentile per-packet one-way delay: 141.287 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 114.51 Mbit/s
95th percentile per-packet one-way delay: 141.287 ms
Loss rate: 2.30%
```

Run 3: Report of Indigo-MusesD — Data Link

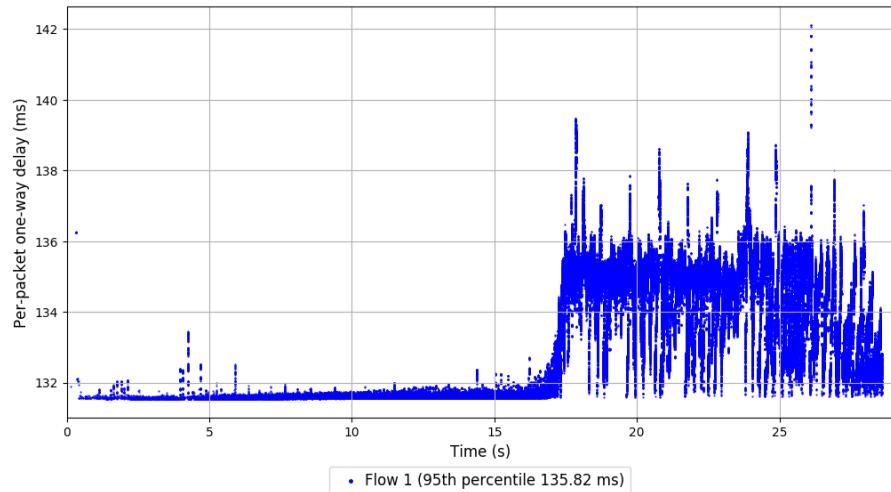
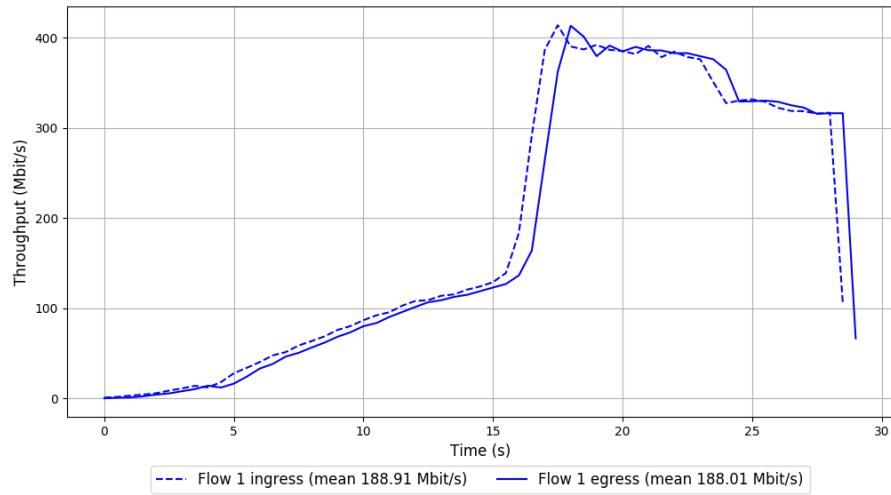


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 07:11:44
End at: 2019-01-19 07:12:14
Local clock offset: 0.151 ms
Remote clock offset: -34.322 ms

# Below is generated by plot.py at 2019-01-19 08:30:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.01 Mbit/s
95th percentile per-packet one-way delay: 135.822 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 188.01 Mbit/s
95th percentile per-packet one-way delay: 135.822 ms
Loss rate: 1.16%
```

Run 4: Report of Indigo-MusesD — Data Link

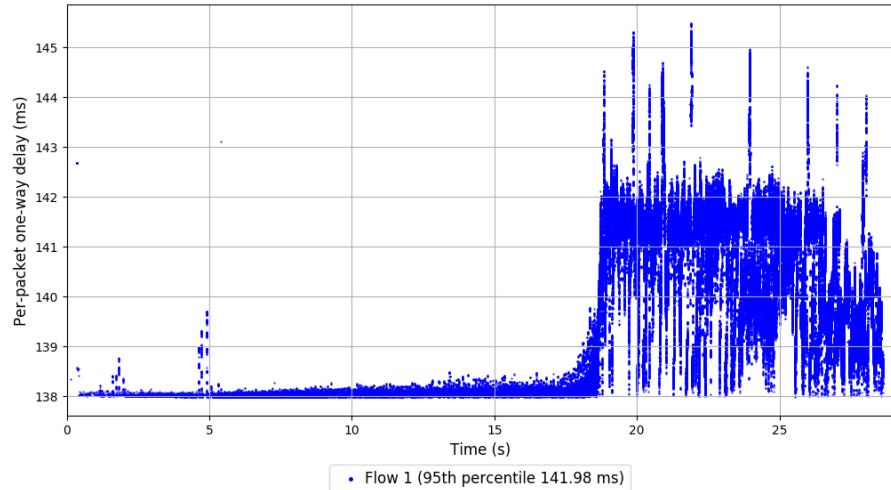
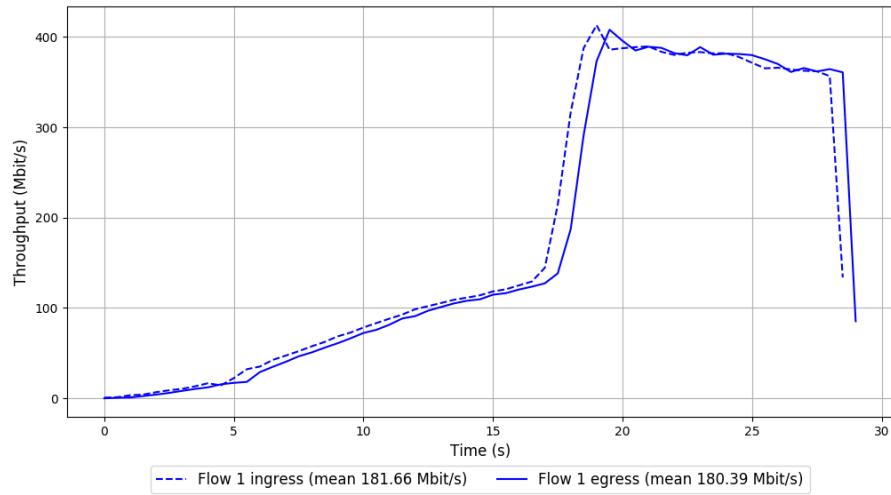


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-19 07:51:26
End at: 2019-01-19 07:51:56
Local clock offset: 3.383 ms
Remote clock offset: -37.363 ms

# Below is generated by plot.py at 2019-01-19 08:30:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.39 Mbit/s
95th percentile per-packet one-way delay: 141.981 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 180.39 Mbit/s
95th percentile per-packet one-way delay: 141.981 ms
Loss rate: 1.38%
```

Run 5: Report of Indigo-MusesD — Data Link

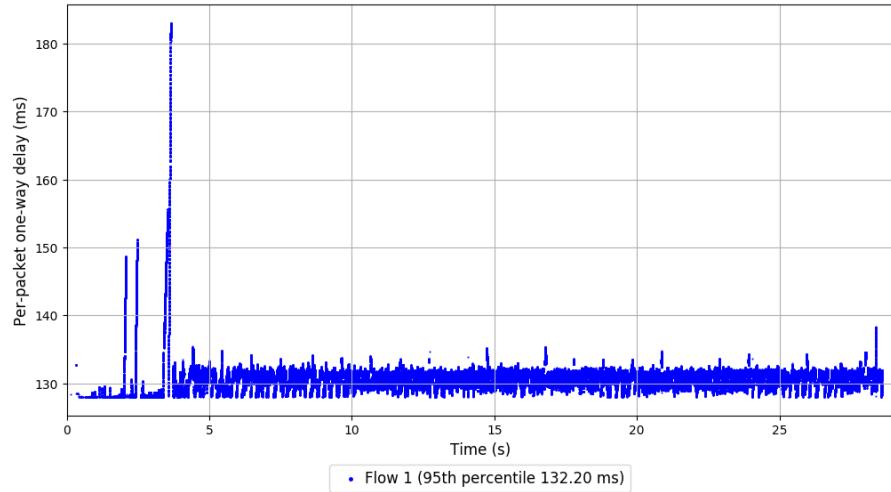
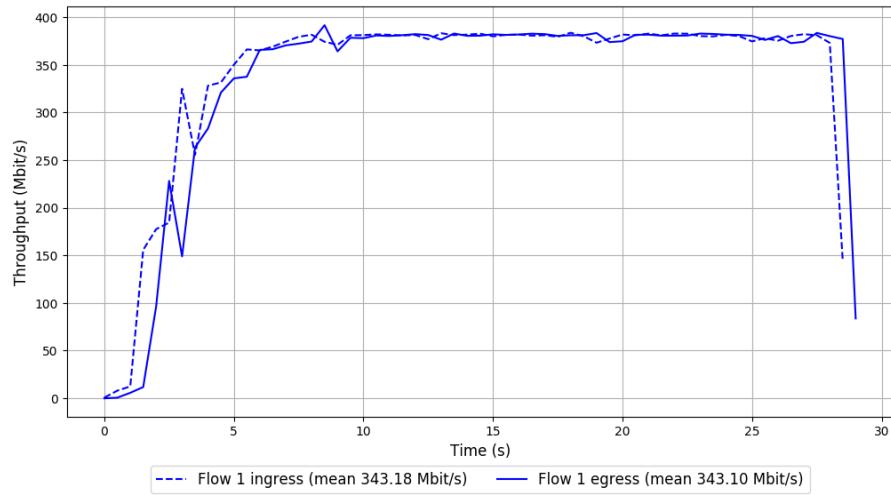


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 05:23:13
End at: 2019-01-19 05:23:43
Local clock offset: 0.201 ms
Remote clock offset: -30.574 ms

# Below is generated by plot.py at 2019-01-19 08:32:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.10 Mbit/s
95th percentile per-packet one-way delay: 132.196 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 343.10 Mbit/s
95th percentile per-packet one-way delay: 132.196 ms
Loss rate: 0.80%
```

Run 1: Report of Indigo-MusesT — Data Link

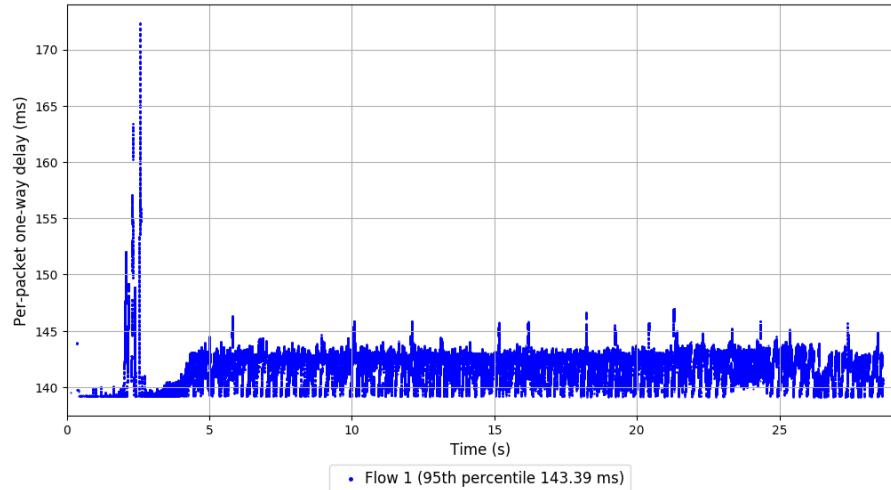
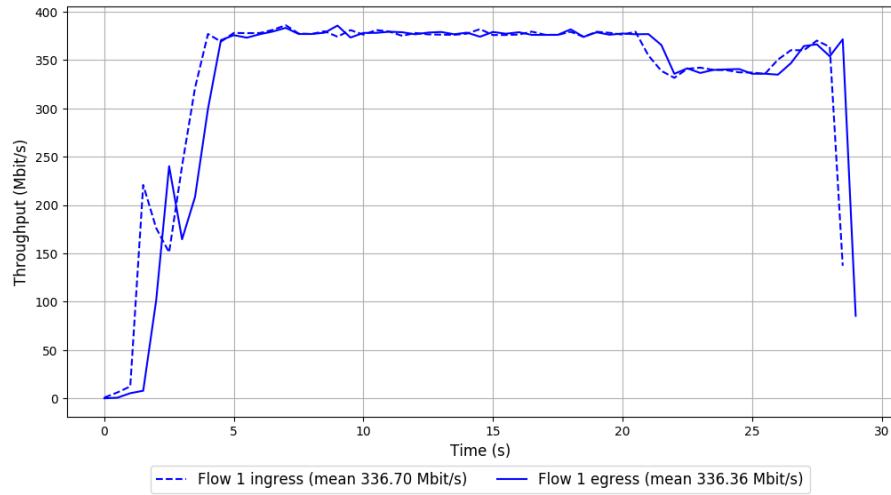


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 05:57:03
End at: 2019-01-19 05:57:33
Local clock offset: 1.337 ms
Remote clock offset: -40.343 ms

# Below is generated by plot.py at 2019-01-19 08:33:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.36 Mbit/s
95th percentile per-packet one-way delay: 143.390 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 336.36 Mbit/s
95th percentile per-packet one-way delay: 143.390 ms
Loss rate: 0.80%
```

Run 2: Report of Indigo-MusesT — Data Link

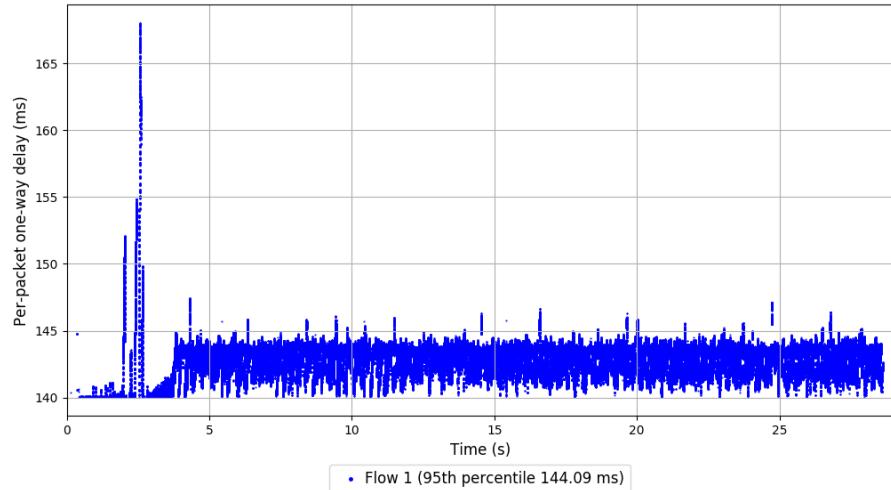
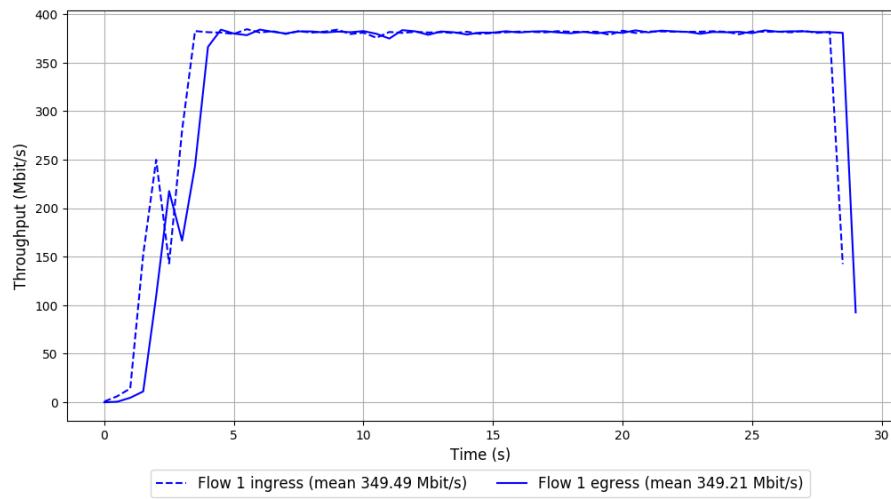


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 06:25:06
End at: 2019-01-19 06:25:36
Local clock offset: 1.084 ms
Remote clock offset: -43.658 ms

# Below is generated by plot.py at 2019-01-19 08:33:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 349.21 Mbit/s
95th percentile per-packet one-way delay: 144.095 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 349.21 Mbit/s
95th percentile per-packet one-way delay: 144.095 ms
Loss rate: 0.79%
```

Run 3: Report of Indigo-MusesT — Data Link

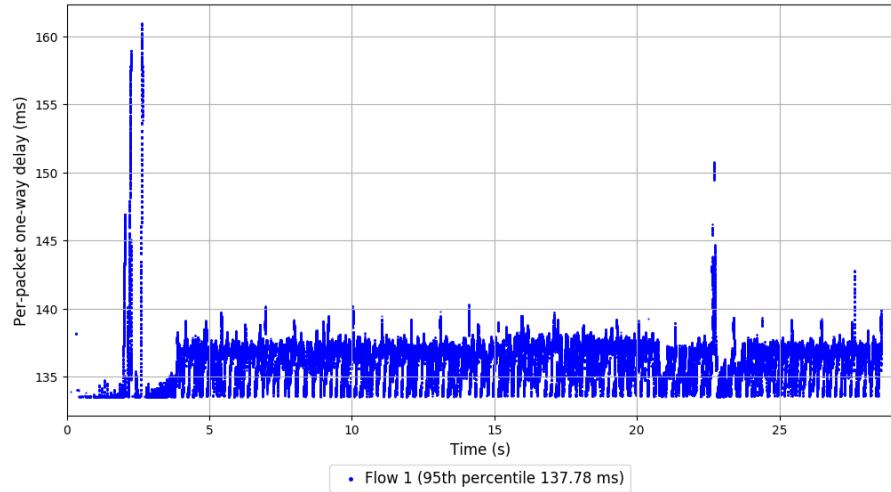
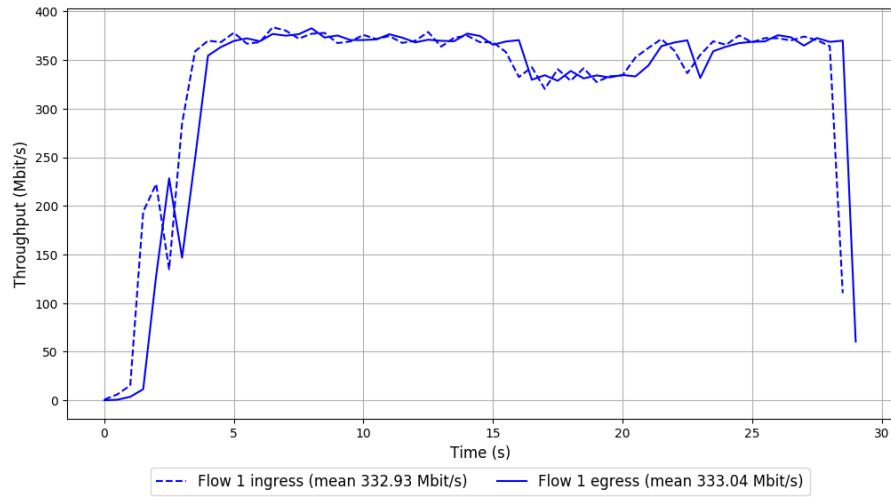


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 06:58:40
End at: 2019-01-19 06:59:10
Local clock offset: -0.358 ms
Remote clock offset: -39.599 ms

# Below is generated by plot.py at 2019-01-19 08:33:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 333.04 Mbit/s
95th percentile per-packet one-way delay: 137.784 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 333.04 Mbit/s
95th percentile per-packet one-way delay: 137.784 ms
Loss rate: 0.79%
```

Run 4: Report of Indigo-MusesT — Data Link

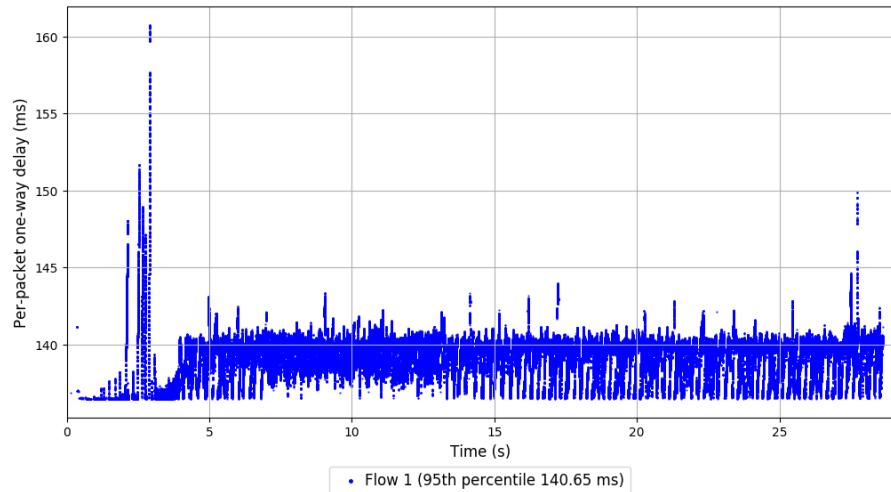
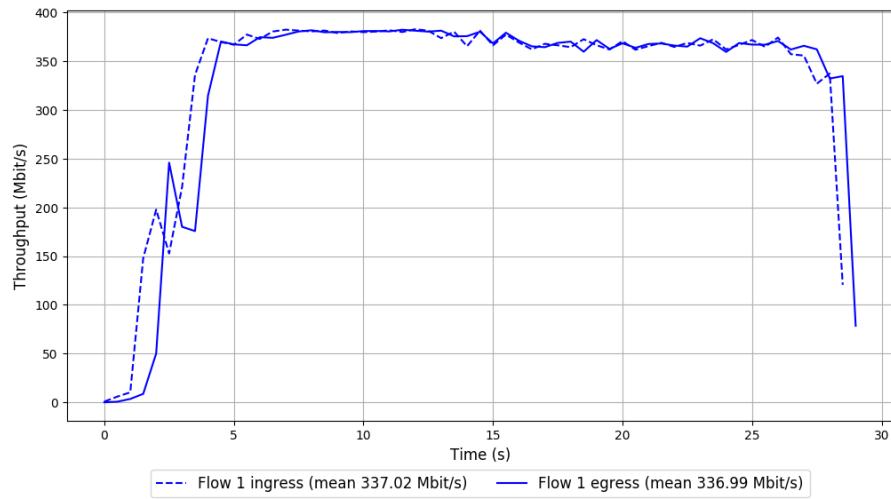


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-19 07:38:01
End at: 2019-01-19 07:38:31
Local clock offset: 0.851 ms
Remote clock offset: -38.144 ms

# Below is generated by plot.py at 2019-01-19 08:33:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.99 Mbit/s
95th percentile per-packet one-way delay: 140.654 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 336.99 Mbit/s
95th percentile per-packet one-way delay: 140.654 ms
Loss rate: 0.70%
```

Run 5: Report of Indigo-MusesT — Data Link

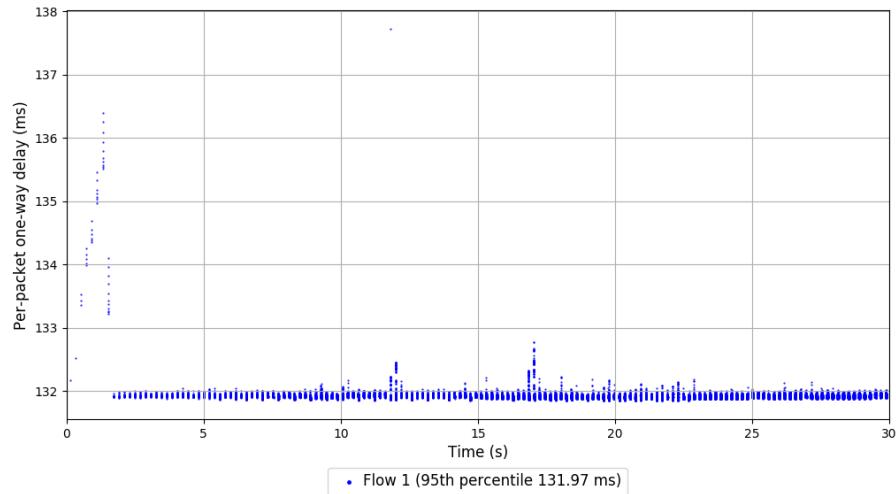
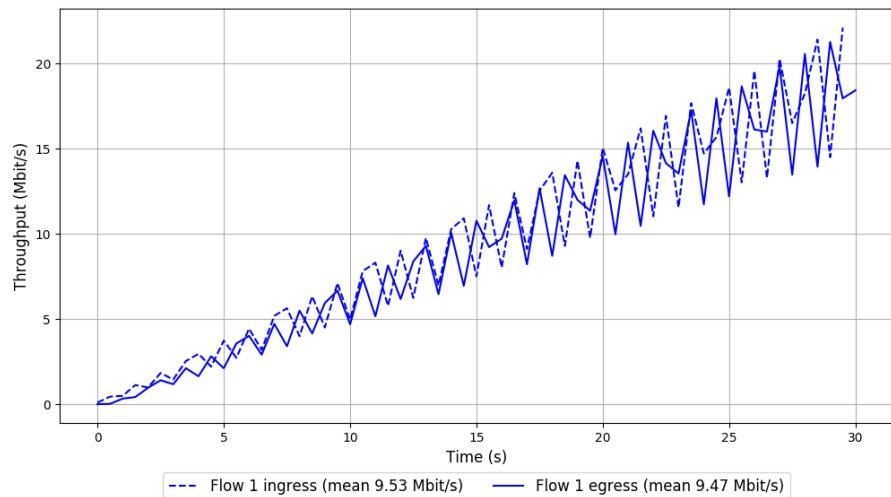


Run 1: Statistics of LEDBAT

```
Start at: 2019-01-19 05:27:10
End at: 2019-01-19 05:27:40
Local clock offset: 0.113 ms
Remote clock offset: -34.501 ms

# Below is generated by plot.py at 2019-01-19 08:33:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 131.971 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 131.971 ms
Loss rate: 1.30%
```

Run 1: Report of LEDBAT — Data Link

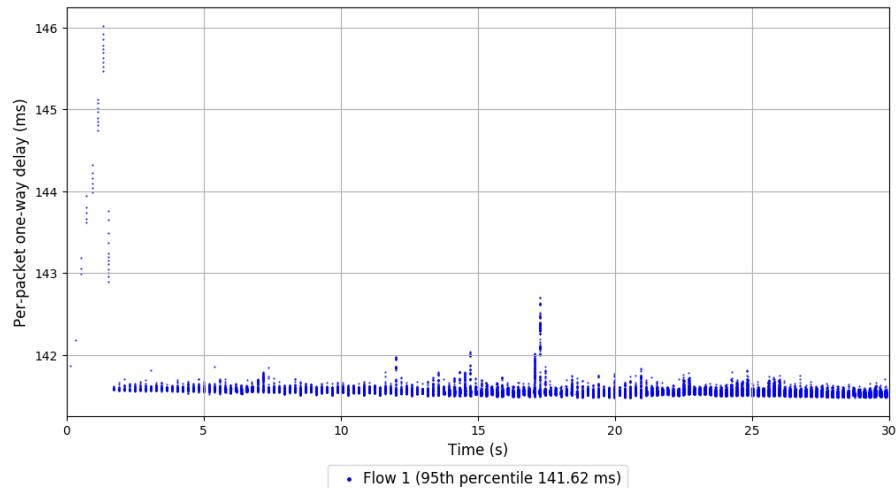
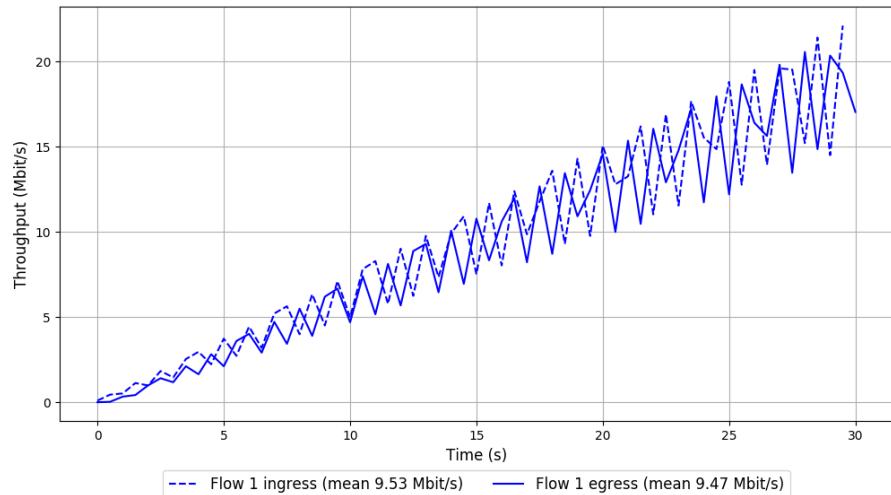


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-19 06:01:02
End at: 2019-01-19 06:01:32
Local clock offset: 2.5 ms
Remote clock offset: -42.336 ms

# Below is generated by plot.py at 2019-01-19 08:33:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 141.622 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 141.622 ms
Loss rate: 1.30%
```

Run 2: Report of LEDBAT — Data Link

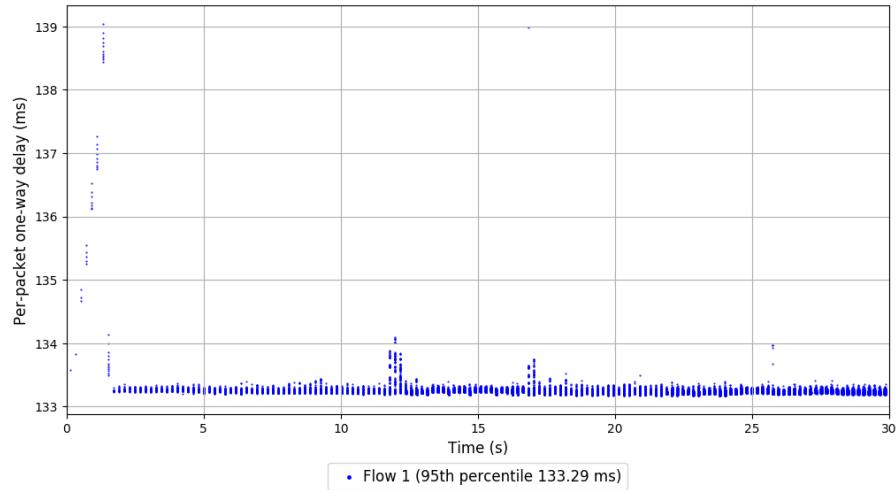
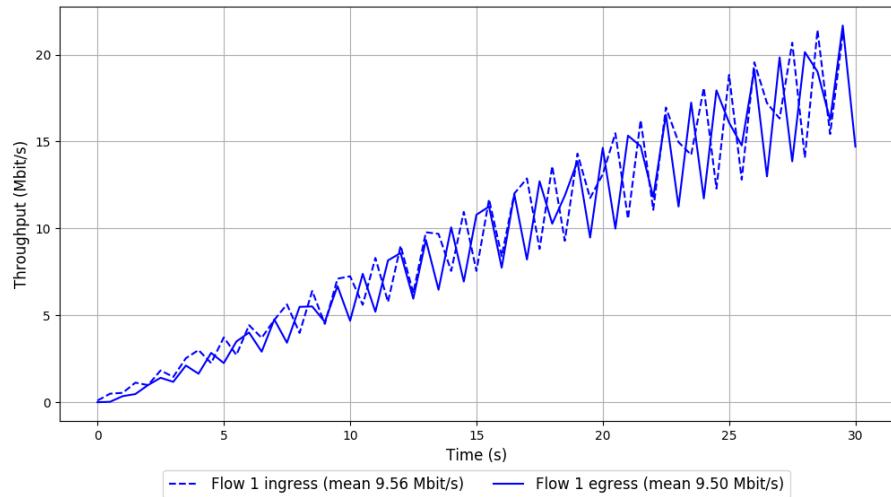


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-19 06:34:32
End at: 2019-01-19 06:35:02
Local clock offset: 0.839 ms
Remote clock offset: -37.569 ms

# Below is generated by plot.py at 2019-01-19 08:33:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.50 Mbit/s
95th percentile per-packet one-way delay: 133.295 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 9.50 Mbit/s
95th percentile per-packet one-way delay: 133.295 ms
Loss rate: 1.30%
```

Run 3: Report of LEDBAT — Data Link

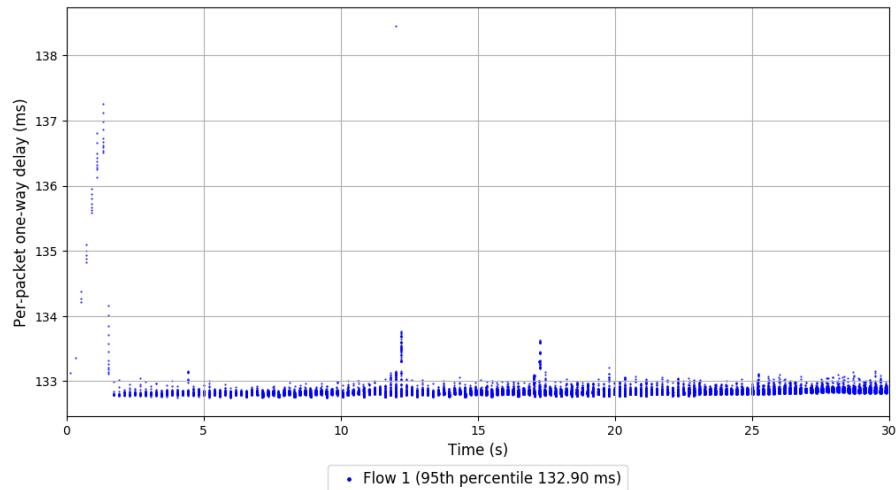
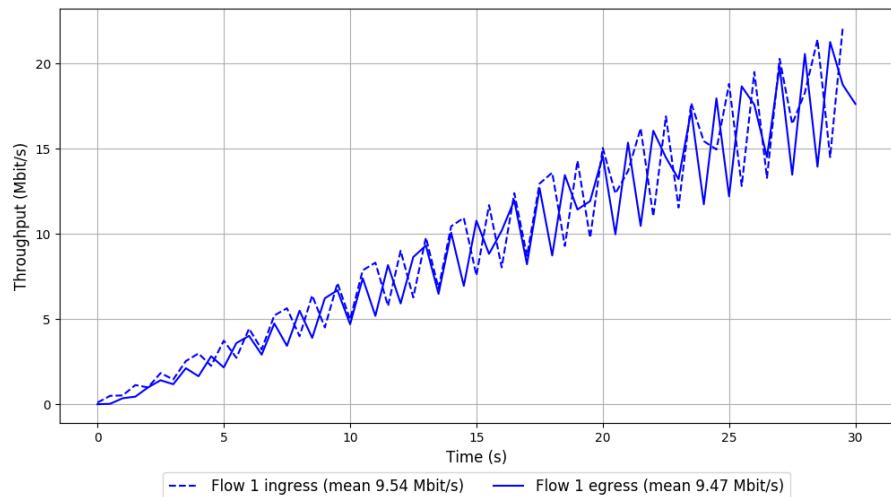


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-19 07:07:48
End at: 2019-01-19 07:08:18
Local clock offset: -1.058 ms
Remote clock offset: -37.163 ms

# Below is generated by plot.py at 2019-01-19 08:33:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 132.903 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 132.903 ms
Loss rate: 1.30%
```

Run 4: Report of LEDBAT — Data Link

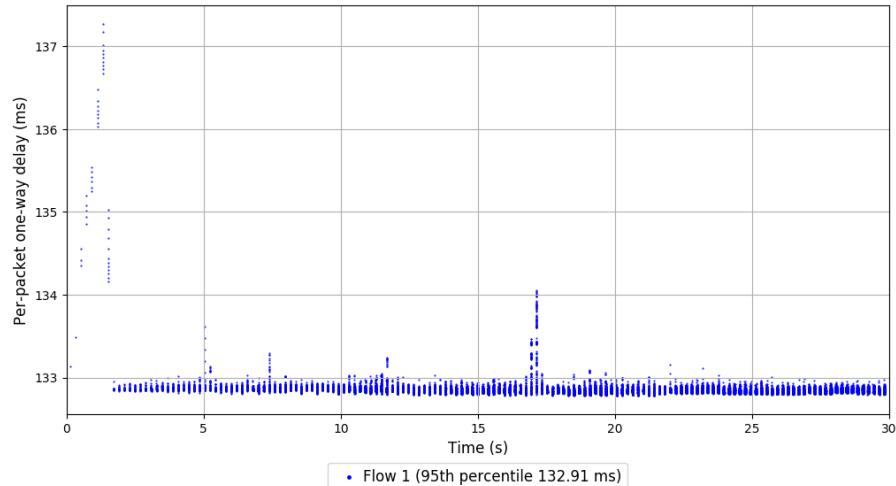
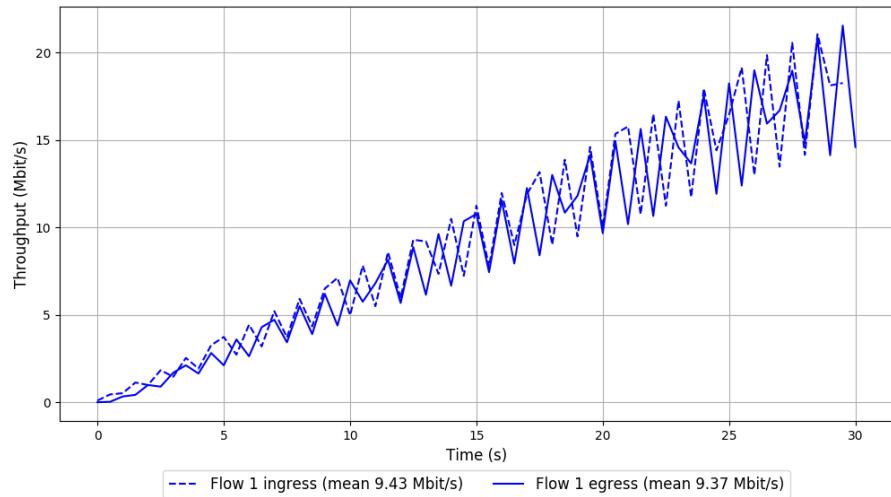


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-19 07:47:30
End at: 2019-01-19 07:48:00
Local clock offset: 0.049 ms
Remote clock offset: -36.71 ms

# Below is generated by plot.py at 2019-01-19 08:33:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.37 Mbit/s
95th percentile per-packet one-way delay: 132.907 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 9.37 Mbit/s
95th percentile per-packet one-way delay: 132.907 ms
Loss rate: 1.31%
```

Run 5: Report of LEDBAT — Data Link

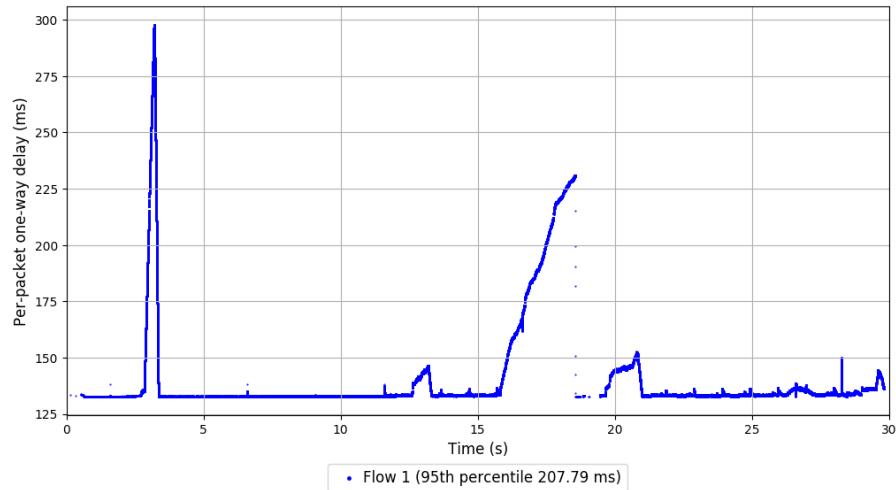
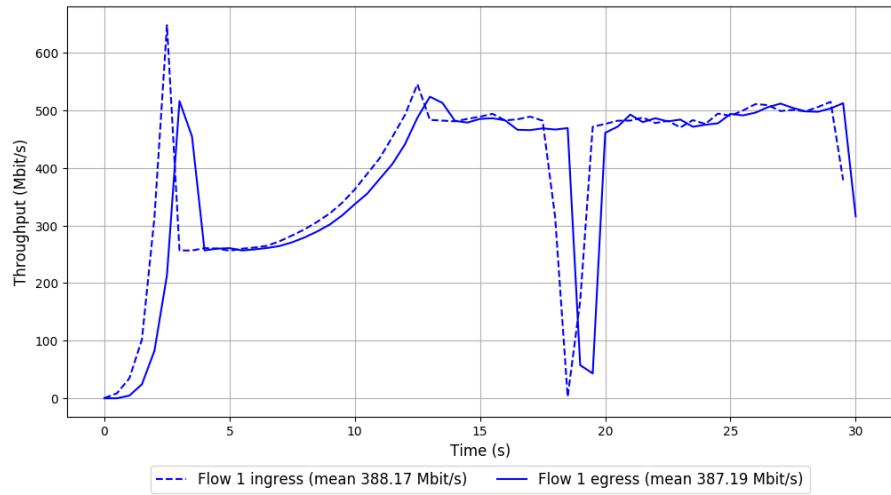


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-19 05:20:35
End at: 2019-01-19 05:21:05
Local clock offset: 0.707 ms
Remote clock offset: -36.081 ms

# Below is generated by plot.py at 2019-01-19 08:34:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 387.19 Mbit/s
95th percentile per-packet one-way delay: 207.791 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 387.19 Mbit/s
95th percentile per-packet one-way delay: 207.791 ms
Loss rate: 0.91%
```

Run 1: Report of PCC-Allegro — Data Link

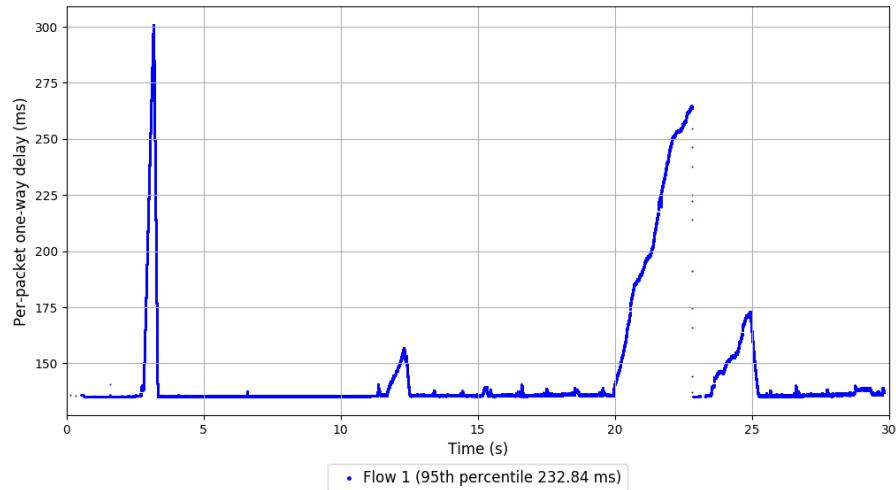
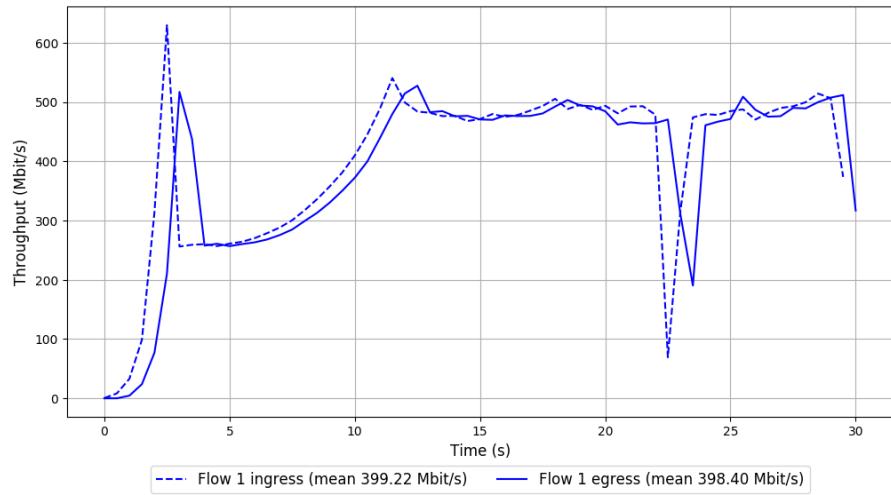


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-19 05:54:17
End at: 2019-01-19 05:54:47
Local clock offset: 2.984 ms
Remote clock offset: -35.764 ms

# Below is generated by plot.py at 2019-01-19 08:34:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 398.40 Mbit/s
95th percentile per-packet one-way delay: 232.835 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 398.40 Mbit/s
95th percentile per-packet one-way delay: 232.835 ms
Loss rate: 0.86%
```

Run 2: Report of PCC-Allegro — Data Link

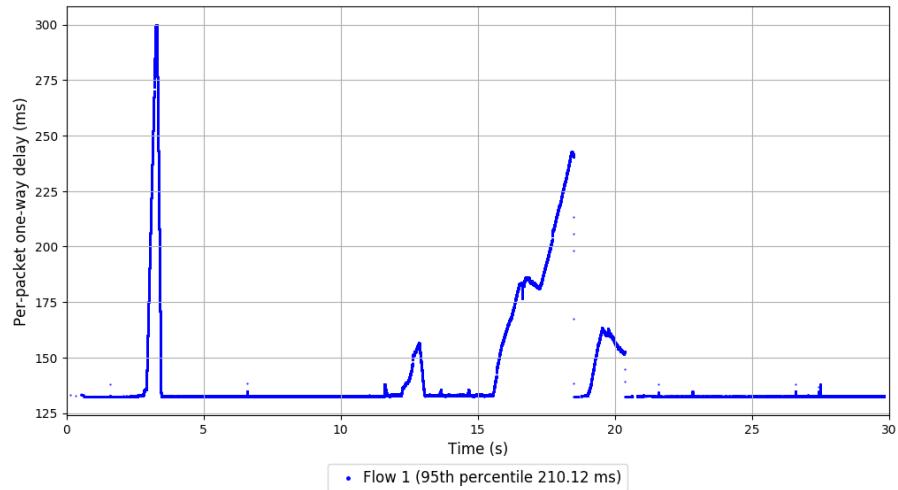
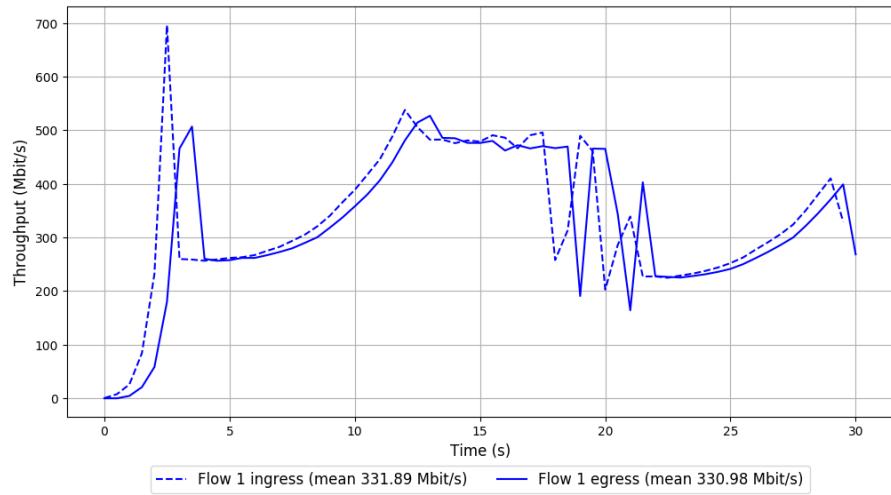


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-19 06:22:26
End at: 2019-01-19 06:22:56
Local clock offset: 1.105 ms
Remote clock offset: -36.113 ms

# Below is generated by plot.py at 2019-01-19 08:34:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.98 Mbit/s
95th percentile per-packet one-way delay: 210.122 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 330.98 Mbit/s
95th percentile per-packet one-way delay: 210.122 ms
Loss rate: 0.93%
```

Run 3: Report of PCC-Allegro — Data Link

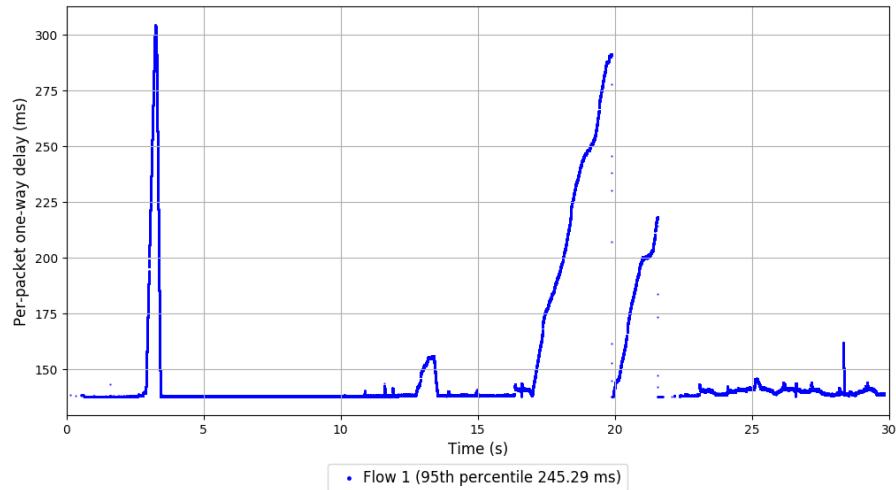
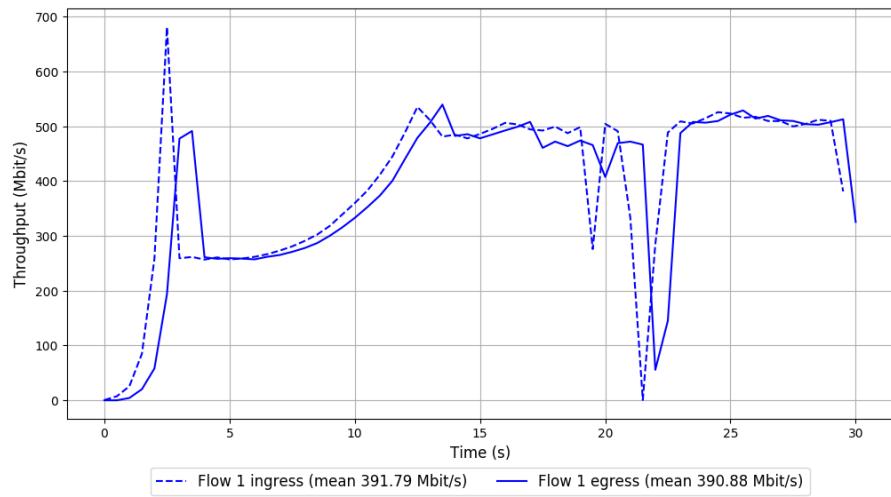


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-19 06:56:02
End at: 2019-01-19 06:56:32
Local clock offset: 0.772 ms
Remote clock offset: -42.996 ms

# Below is generated by plot.py at 2019-01-19 08:37:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.88 Mbit/s
95th percentile per-packet one-way delay: 245.291 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 390.88 Mbit/s
95th percentile per-packet one-way delay: 245.291 ms
Loss rate: 0.89%
```

Run 4: Report of PCC-Allegro — Data Link

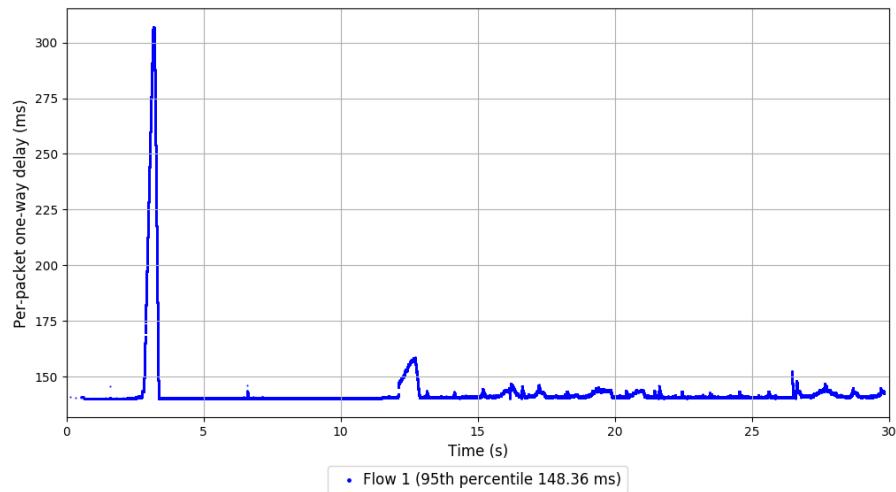
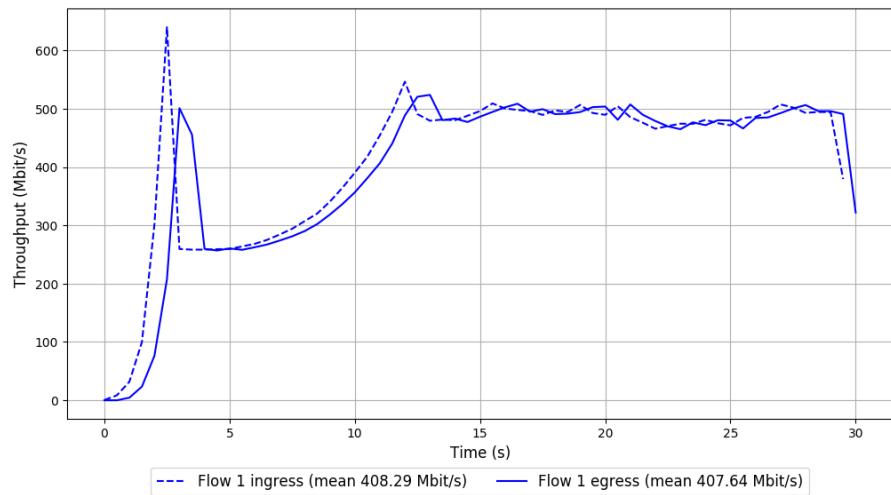


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-19 07:35:14
End at: 2019-01-19 07:35:44
Local clock offset: 1.629 ms
Remote clock offset: -42.619 ms

# Below is generated by plot.py at 2019-01-19 08:37:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 407.64 Mbit/s
95th percentile per-packet one-way delay: 148.356 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 407.64 Mbit/s
95th percentile per-packet one-way delay: 148.356 ms
Loss rate: 0.81%
```

Run 5: Report of PCC-Allegro — Data Link

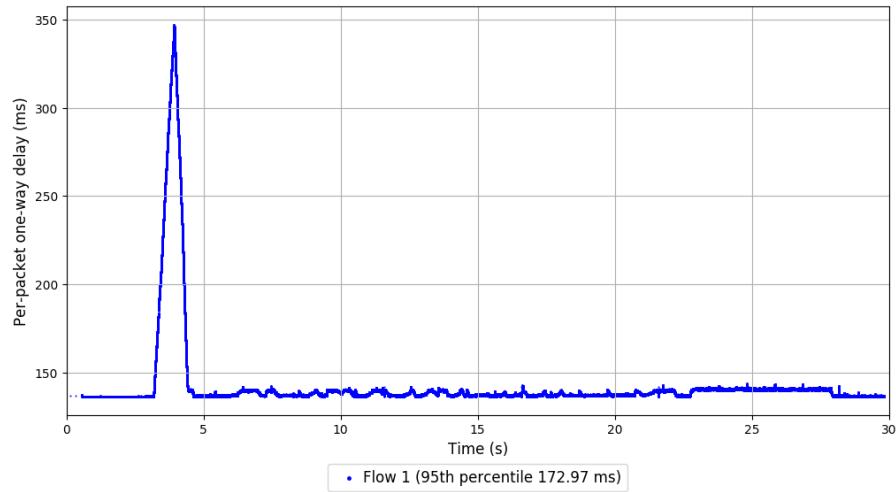
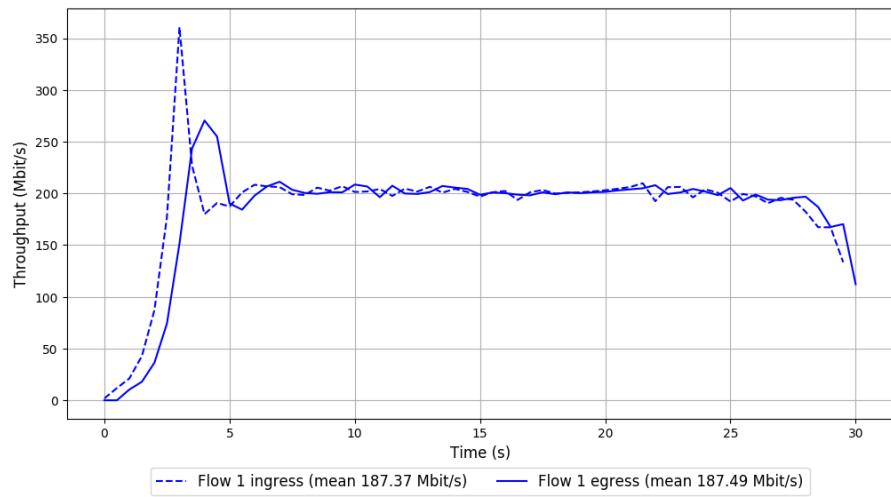


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-01-19 05:47:23
End at: 2019-01-19 05:47:53
Local clock offset: 1.366 ms
Remote clock offset: -37.889 ms

# Below is generated by plot.py at 2019-01-19 08:37:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.49 Mbit/s
95th percentile per-packet one-way delay: 172.971 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 187.49 Mbit/s
95th percentile per-packet one-way delay: 172.971 ms
Loss rate: 0.59%
```

Run 1: Report of PCC-Expr — Data Link

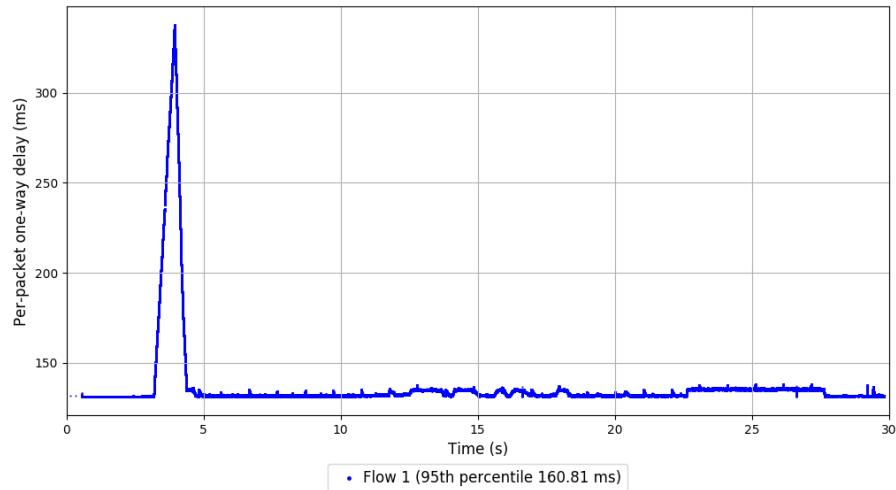
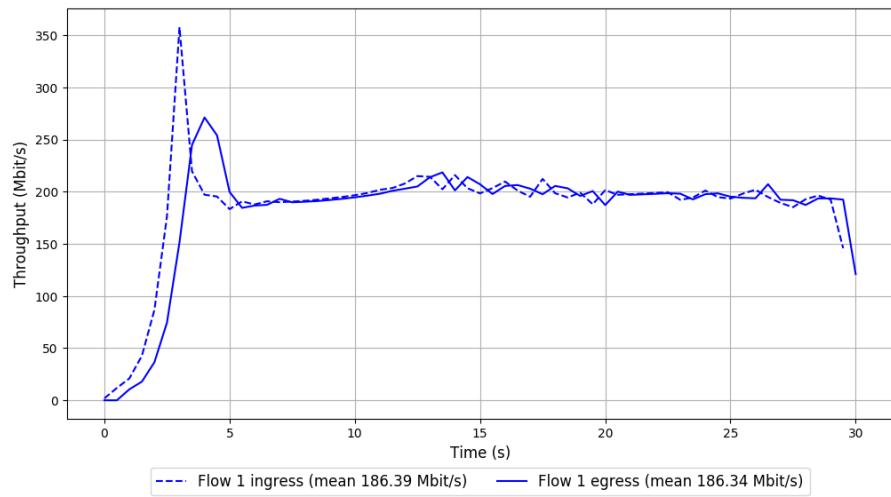


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-19 06:15:33
End at: 2019-01-19 06:16:03
Local clock offset: -0.251 ms
Remote clock offset: -37.224 ms

# Below is generated by plot.py at 2019-01-19 08:37:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.34 Mbit/s
95th percentile per-packet one-way delay: 160.811 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 186.34 Mbit/s
95th percentile per-packet one-way delay: 160.811 ms
Loss rate: 0.68%
```

Run 2: Report of PCC-Expr — Data Link

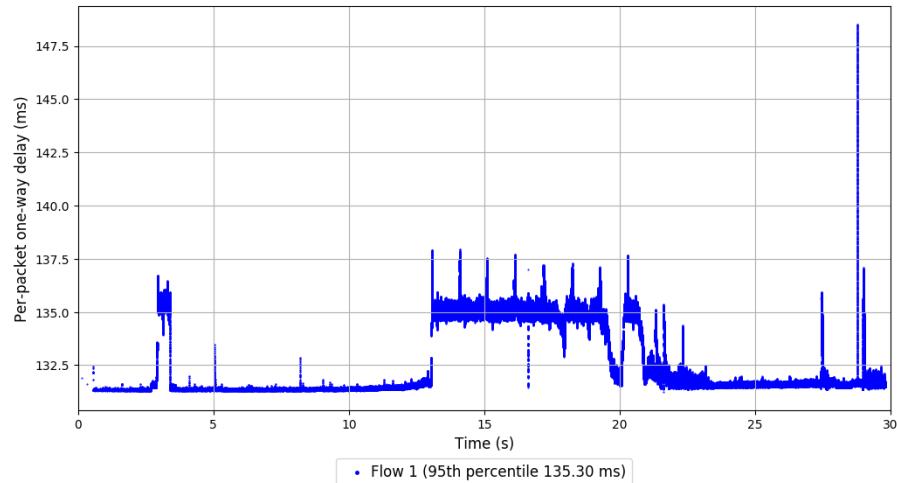
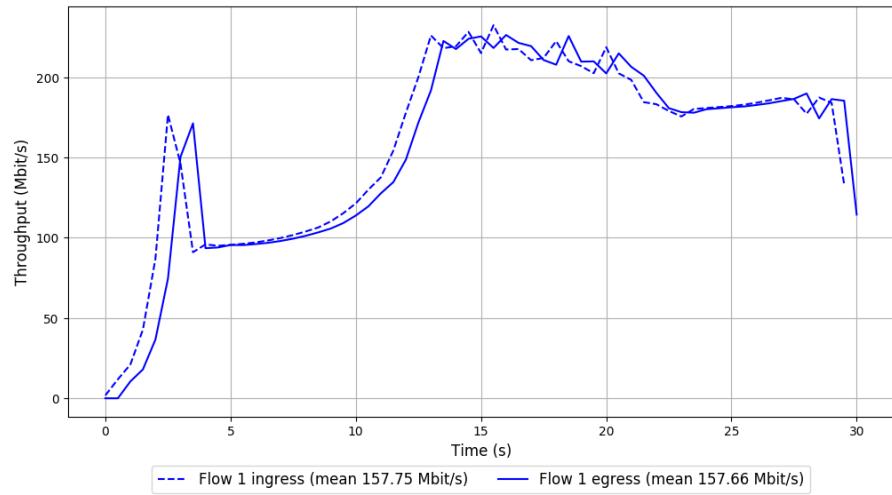


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-19 06:49:10
End at: 2019-01-19 06:49:40
Local clock offset: 0.85 ms
Remote clock offset: -37.001 ms

# Below is generated by plot.py at 2019-01-19 08:37:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.66 Mbit/s
95th percentile per-packet one-way delay: 135.302 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 157.66 Mbit/s
95th percentile per-packet one-way delay: 135.302 ms
Loss rate: 0.71%
```

Run 3: Report of PCC-Expr — Data Link

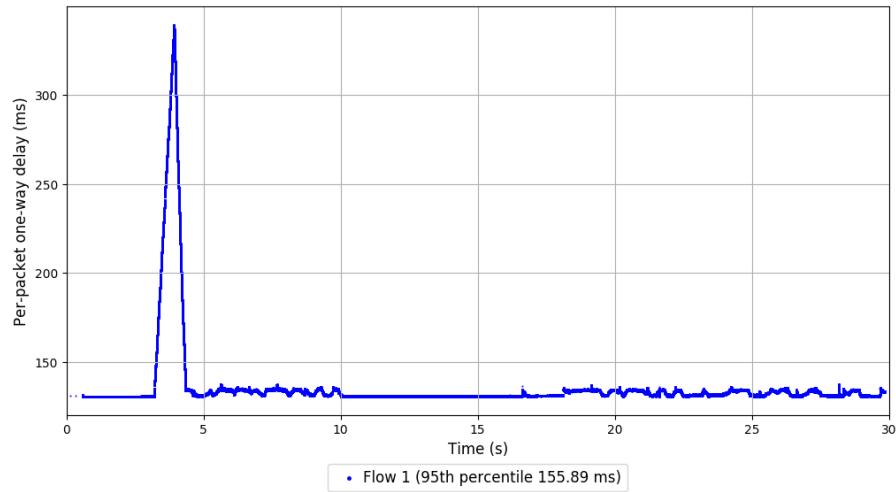
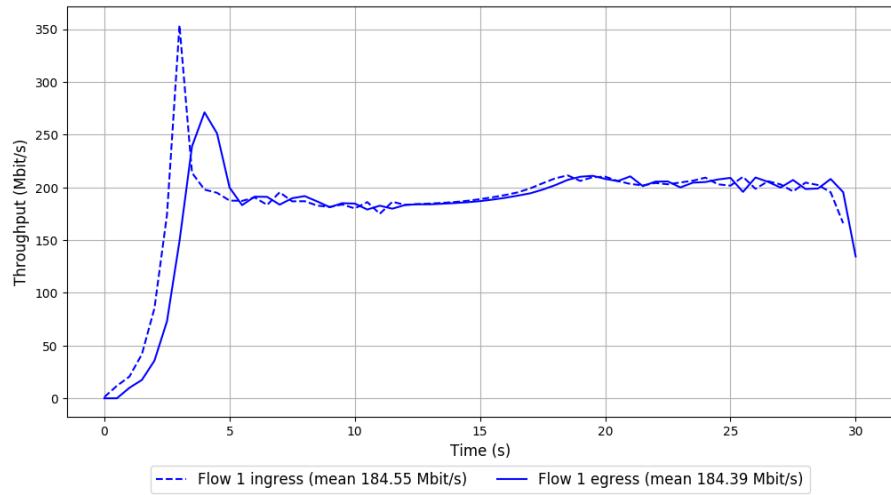


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-19 07:28:21
End at: 2019-01-19 07:28:51
Local clock offset: -2.242 ms
Remote clock offset: -35.791 ms

# Below is generated by plot.py at 2019-01-19 08:38:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.39 Mbit/s
95th percentile per-packet one-way delay: 155.894 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 184.39 Mbit/s
95th percentile per-packet one-way delay: 155.894 ms
Loss rate: 0.75%
```

Run 4: Report of PCC-Expr — Data Link

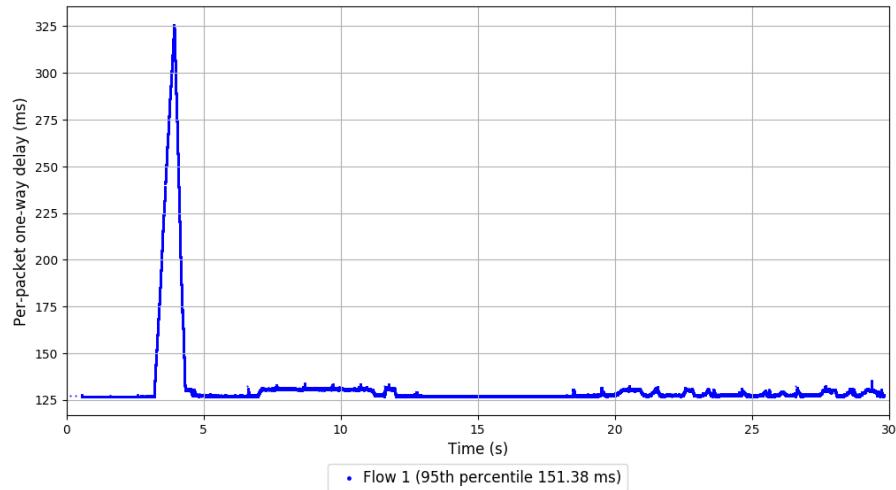
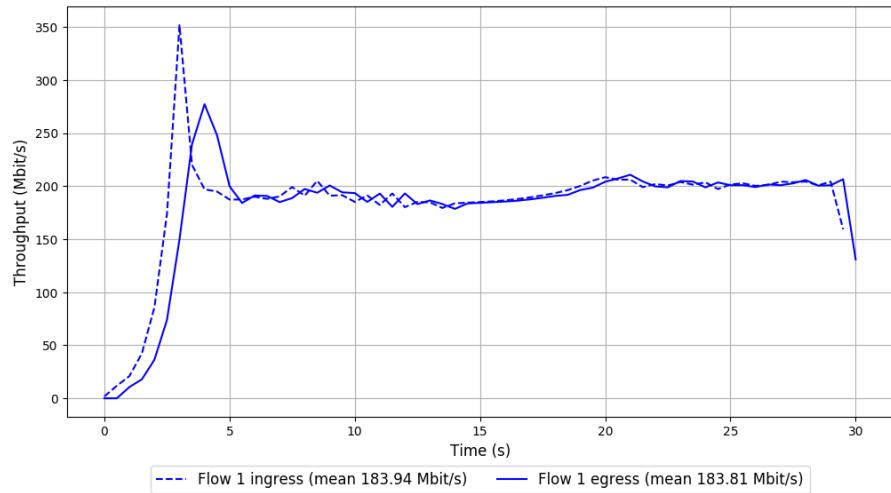


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-19 08:02:04
End at: 2019-01-19 08:02:34
Local clock offset: 0.216 ms
Remote clock offset: -29.284 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.81 Mbit/s
95th percentile per-packet one-way delay: 151.381 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 183.81 Mbit/s
95th percentile per-packet one-way delay: 151.381 ms
Loss rate: 0.74%
```

Run 5: Report of PCC-Expr — Data Link

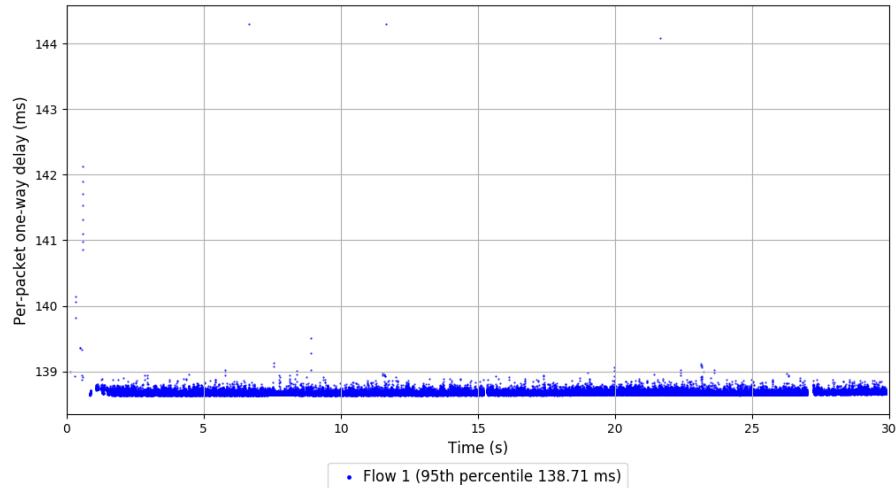
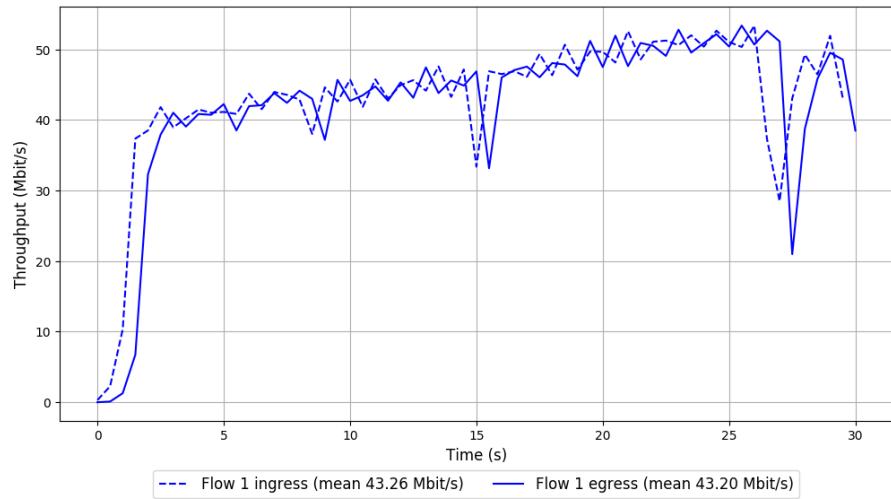


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-01-19 05:46:10
End at: 2019-01-19 05:46:40
Local clock offset: 1.1 ms
Remote clock offset: -40.338 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.20 Mbit/s
95th percentile per-packet one-way delay: 138.714 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 43.20 Mbit/s
95th percentile per-packet one-way delay: 138.714 ms
Loss rate: 0.78%
```

Run 1: Report of QUIC Cubic — Data Link

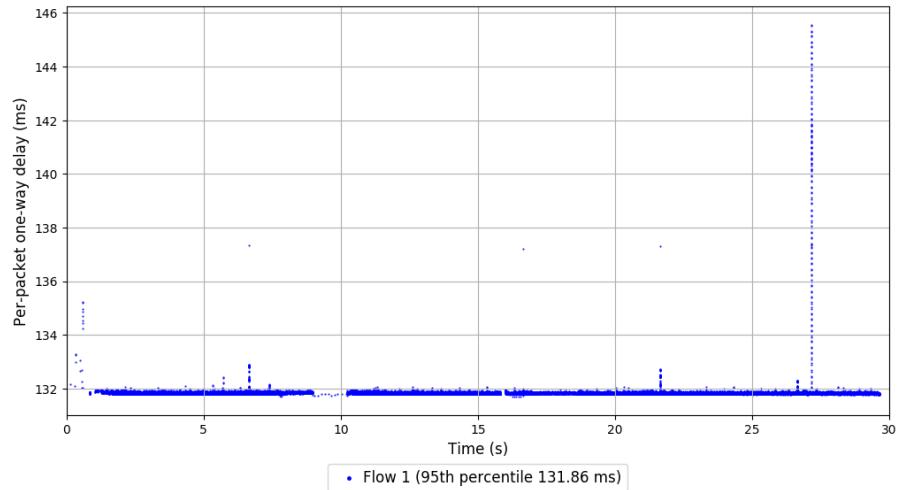
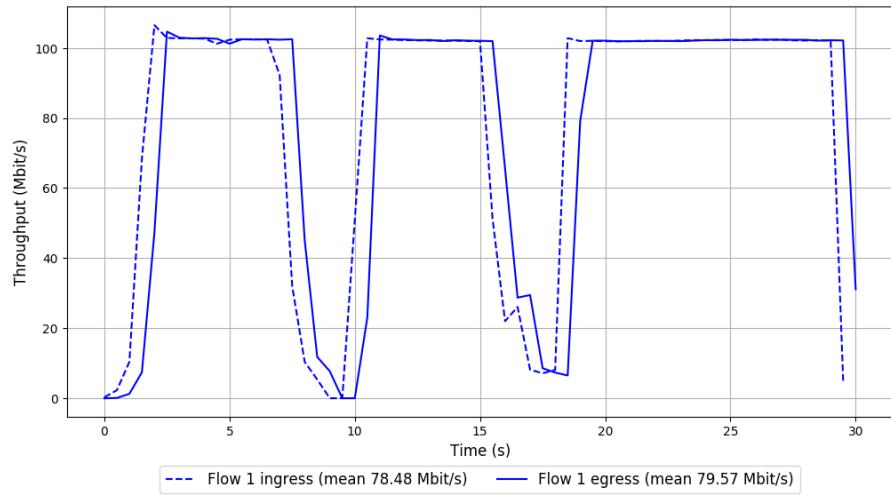


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-19 06:14:18
End at: 2019-01-19 06:14:48
Local clock offset: 1.458 ms
Remote clock offset: -36.215 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.57 Mbit/s
95th percentile per-packet one-way delay: 131.857 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 79.57 Mbit/s
95th percentile per-packet one-way delay: 131.857 ms
Loss rate: 0.02%
```

Run 2: Report of QUIC Cubic — Data Link

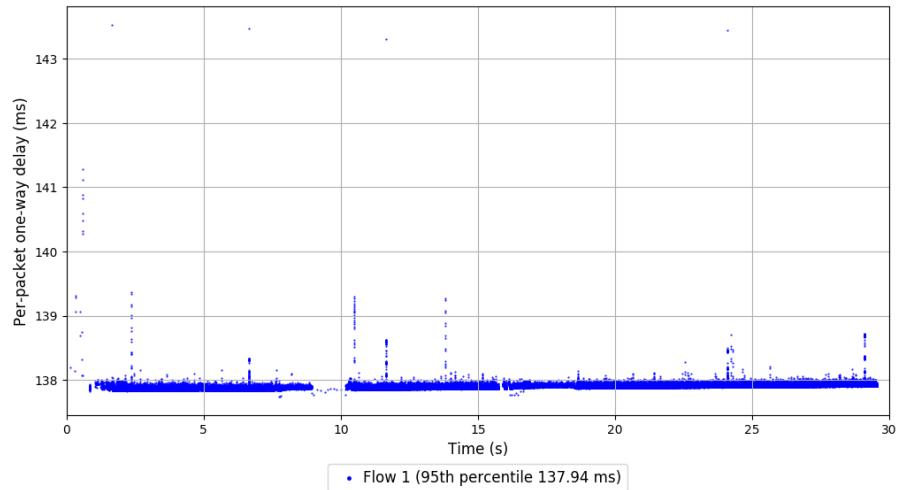
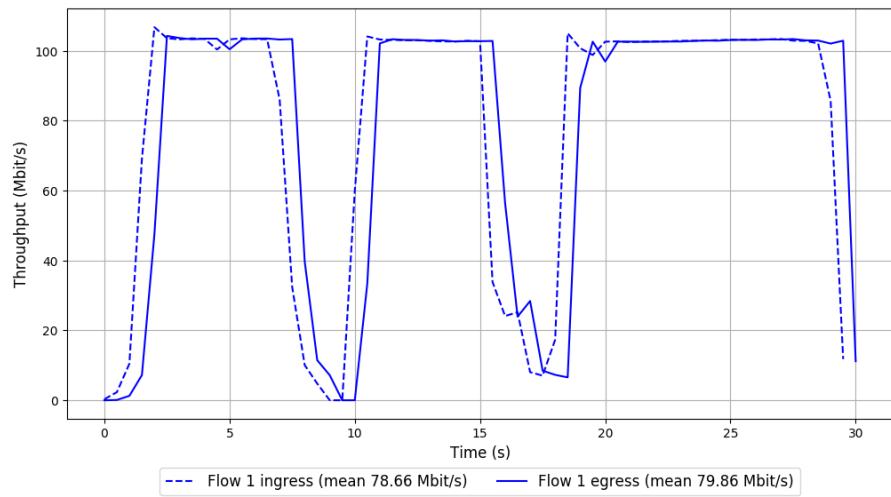


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-19 06:47:56
End at: 2019-01-19 06:48:26
Local clock offset: 2.072 ms
Remote clock offset: -42.513 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.86 Mbit/s
95th percentile per-packet one-way delay: 137.940 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 79.86 Mbit/s
95th percentile per-packet one-way delay: 137.940 ms
Loss rate: 0.25%
```

Run 3: Report of QUIC Cubic — Data Link

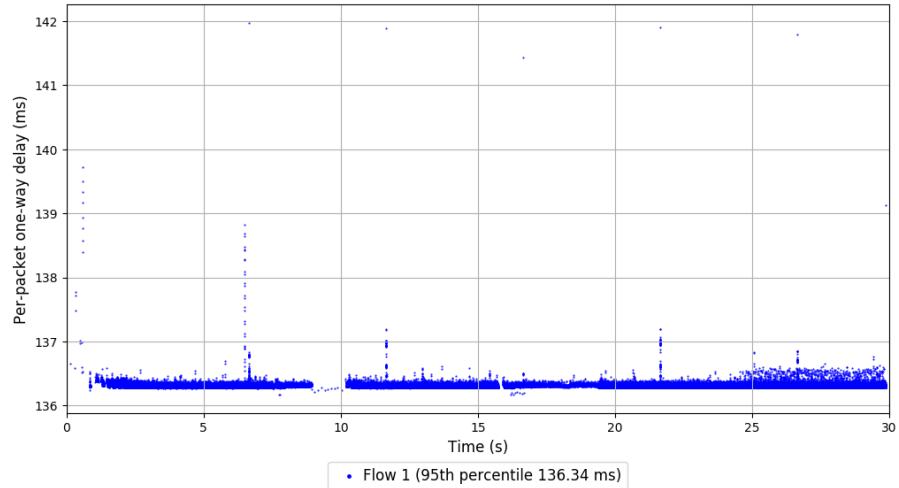
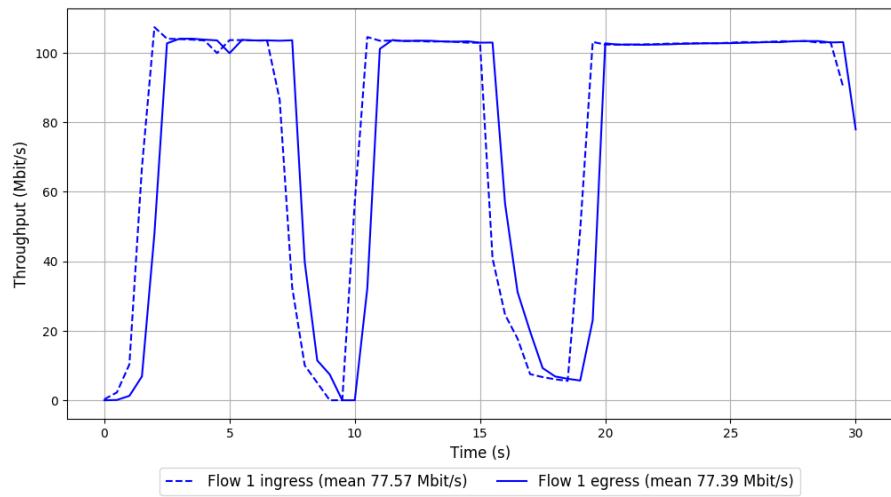


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-19 07:27:06
End at: 2019-01-19 07:27:36
Local clock offset: 0.974 ms
Remote clock offset: -37.947 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.39 Mbit/s
95th percentile per-packet one-way delay: 136.340 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 77.39 Mbit/s
95th percentile per-packet one-way delay: 136.340 ms
Loss rate: 0.87%
```

Run 4: Report of QUIC Cubic — Data Link

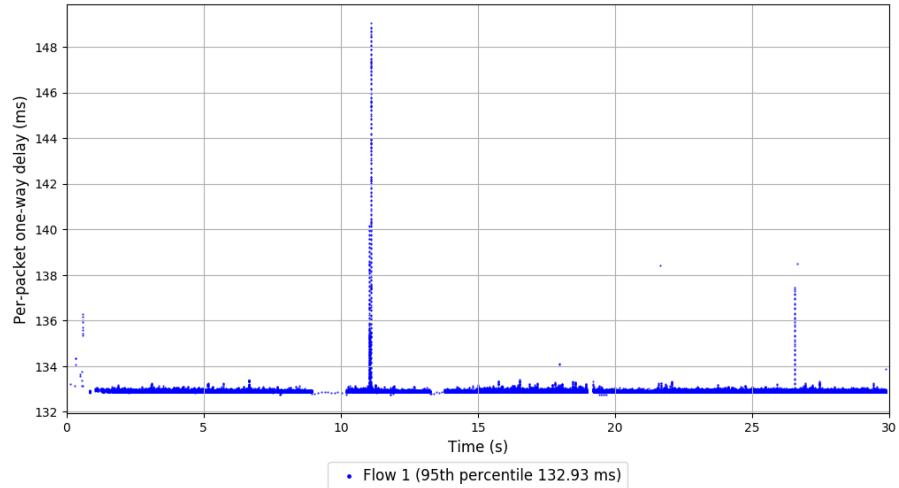
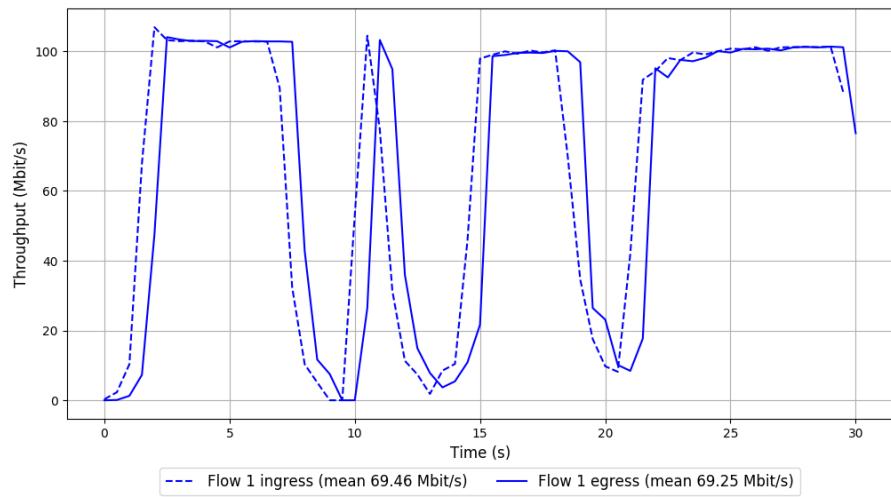


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-19 08:00:50
End at: 2019-01-19 08:01:20
Local clock offset: 0.889 ms
Remote clock offset: -36.237 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.25 Mbit/s
95th percentile per-packet one-way delay: 132.933 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 69.25 Mbit/s
95th percentile per-packet one-way delay: 132.933 ms
Loss rate: 0.94%
```

Run 5: Report of QUIC Cubic — Data Link

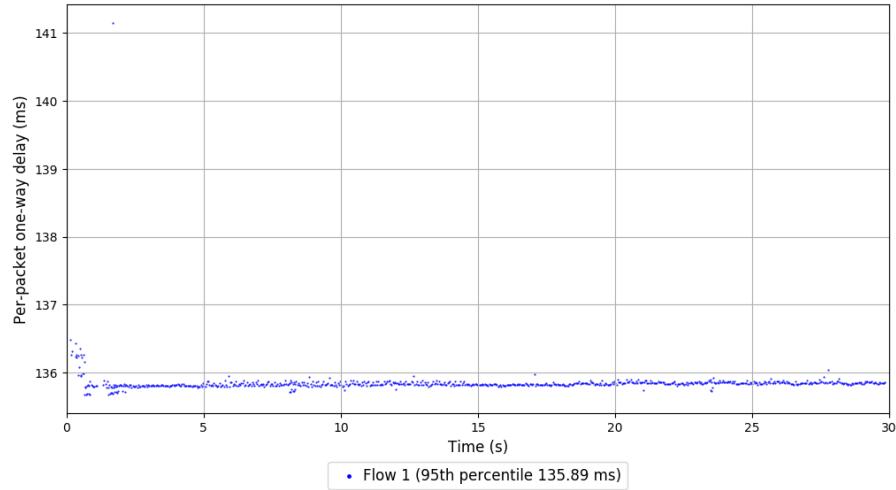
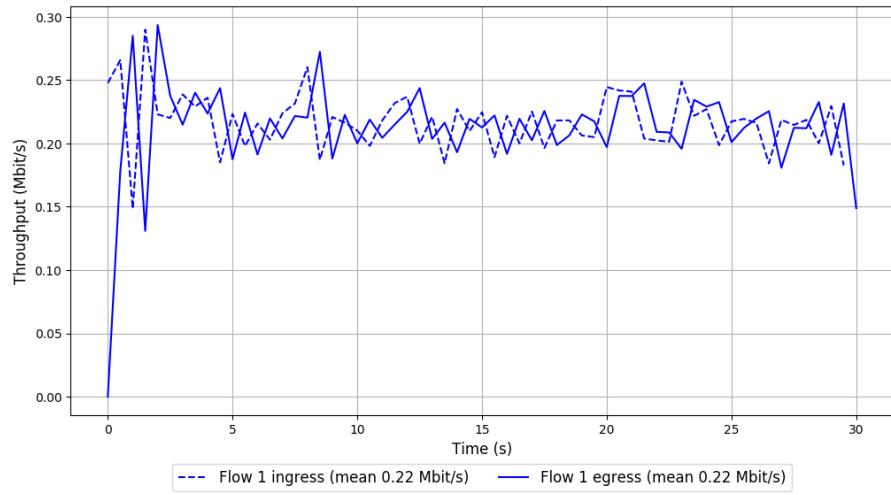


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-01-19 05:48:49
End at: 2019-01-19 05:49:19
Local clock offset: 0.428 ms
Remote clock offset: -37.841 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.890 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.890 ms
Loss rate: 0.64%
```

Run 1: Report of SCReAM — Data Link

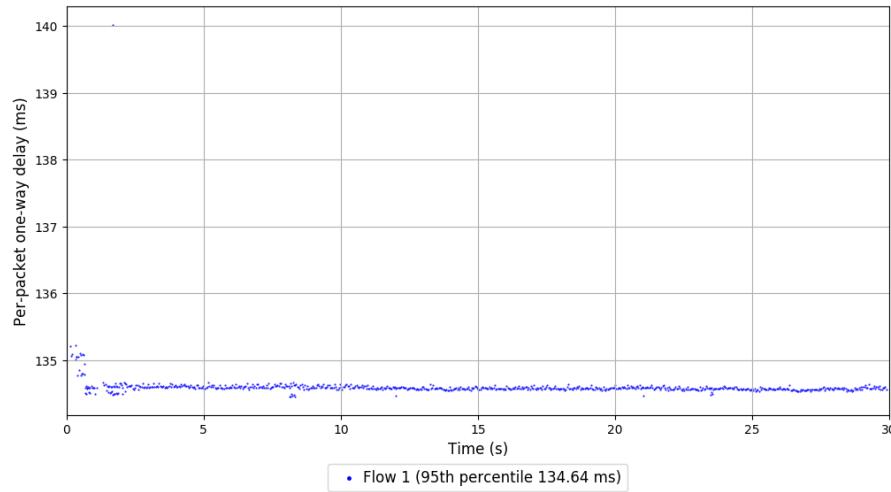
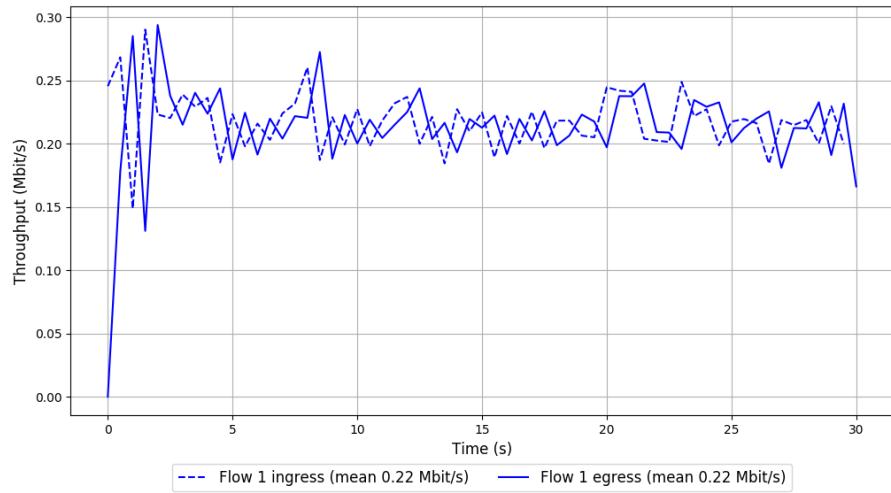


Run 2: Statistics of SCReAM

```
Start at: 2019-01-19 06:16:58
End at: 2019-01-19 06:17:28
Local clock offset: 2.183 ms
Remote clock offset: -36.862 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.643 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.643 ms
Loss rate: 0.64%
```

Run 2: Report of SCReAM — Data Link

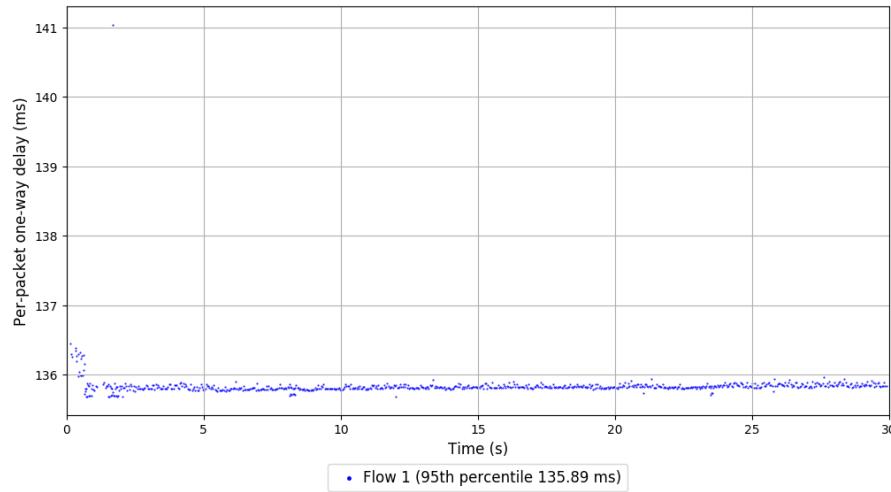
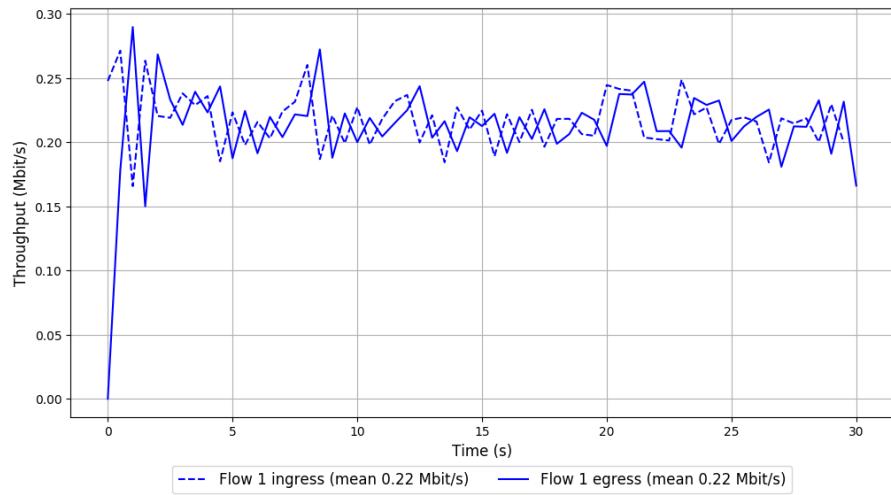


Run 3: Statistics of SCReAM

```
Start at: 2019-01-19 06:50:34
End at: 2019-01-19 06:51:04
Local clock offset: 1.093 ms
Remote clock offset: -39.433 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.891 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.891 ms
Loss rate: 0.64%
```

Run 3: Report of SCReAM — Data Link

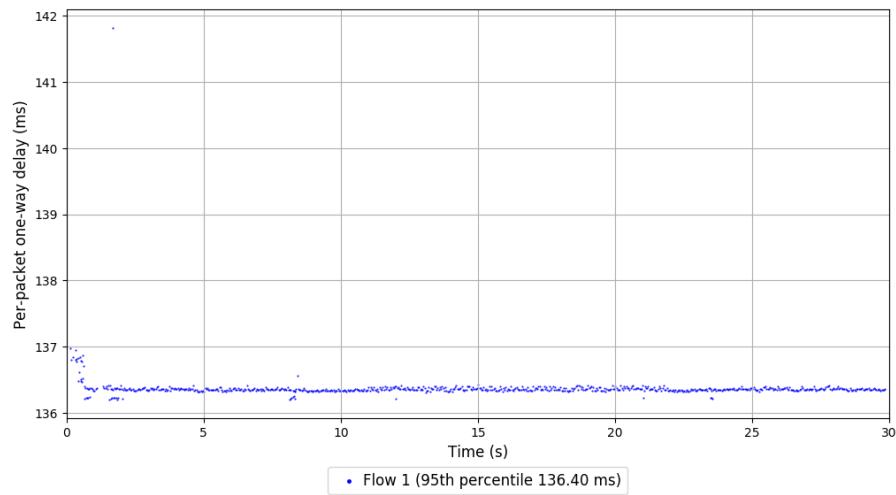
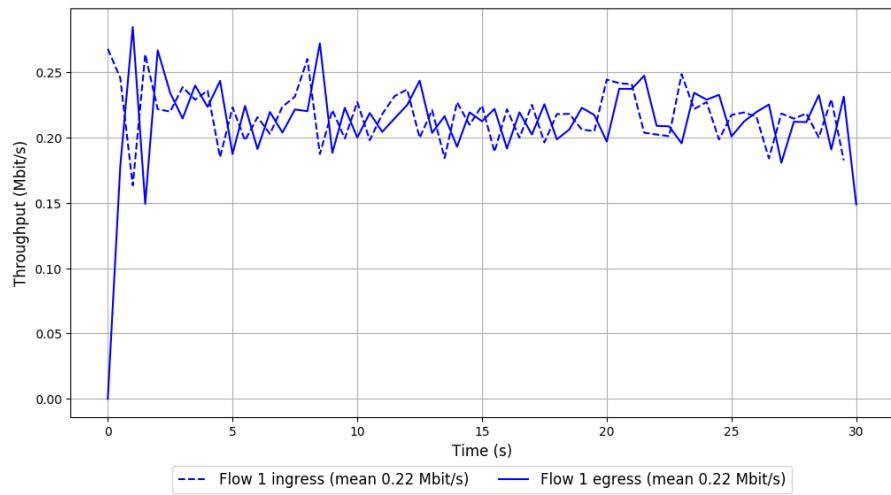


Run 4: Statistics of SCReAM

```
Start at: 2019-01-19 07:29:46
End at: 2019-01-19 07:30:16
Local clock offset: 0.151 ms
Remote clock offset: -40.205 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.404 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.404 ms
Loss rate: 0.64%
```

Run 4: Report of SCReAM — Data Link

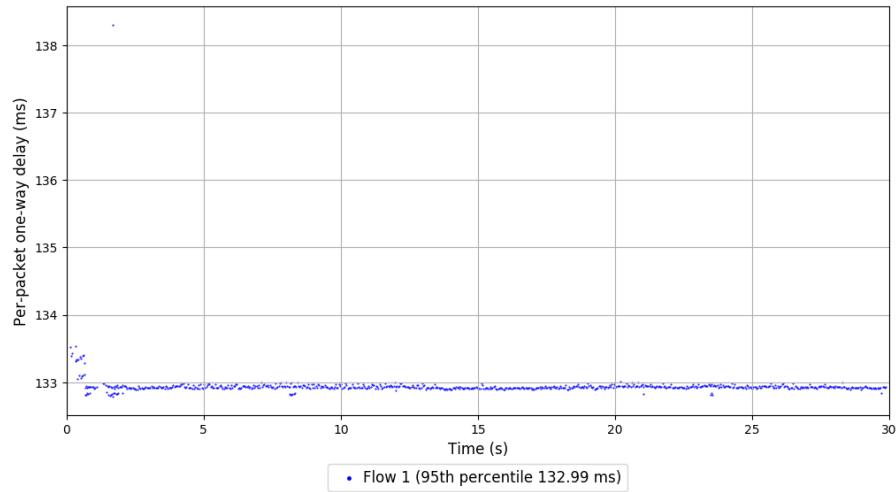
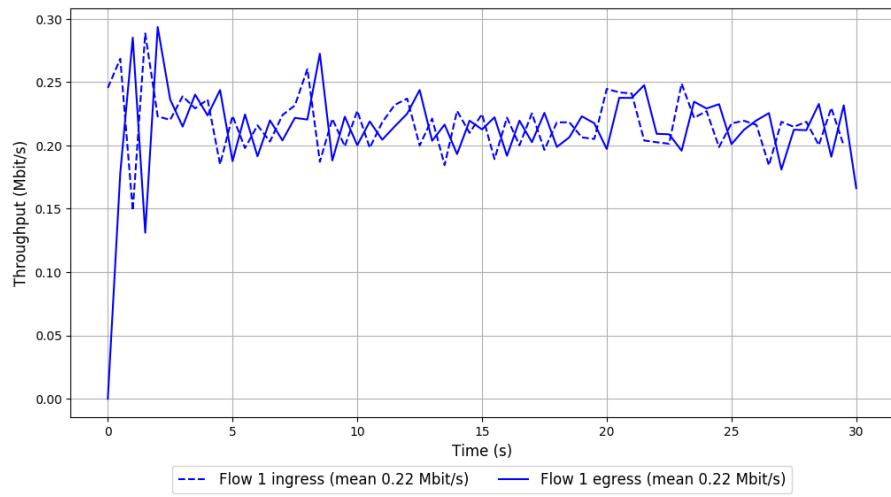


Run 5: Statistics of SCReAM

```
Start at: 2019-01-19 08:03:30
End at: 2019-01-19 08:04:00
Local clock offset: 0.13 ms
Remote clock offset: -35.372 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 132.985 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 132.985 ms
Loss rate: 0.64%
```

Run 5: Report of SCReAM — Data Link

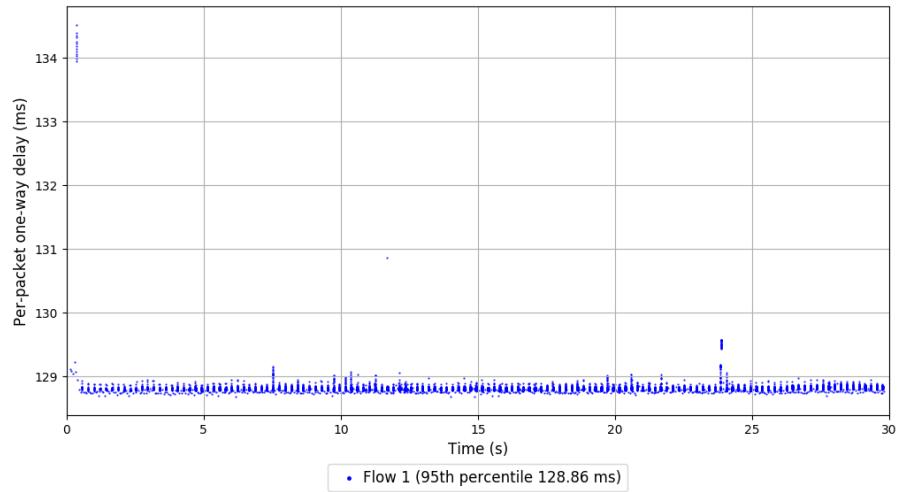
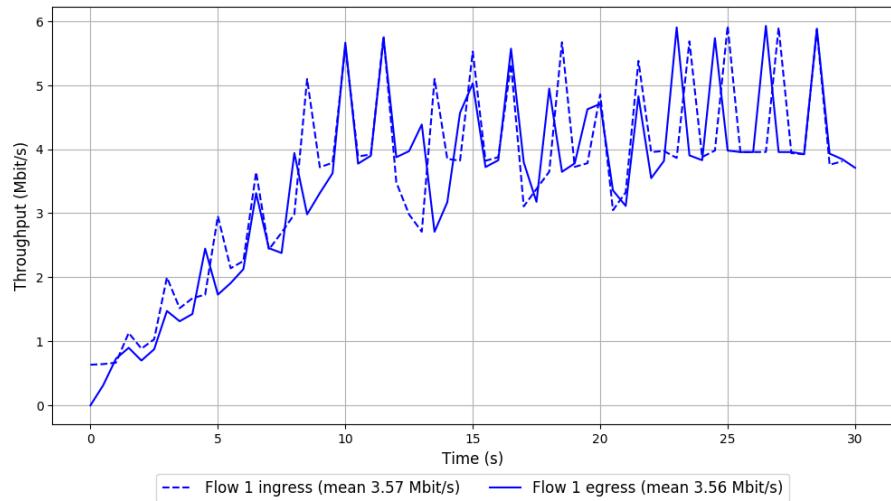


Run 1: Statistics of Sprout

```
Start at: 2019-01-19 05:32:27
End at: 2019-01-19 05:32:57
Local clock offset: 1.868 ms
Remote clock offset: -29.669 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 128.862 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 128.862 ms
Loss rate: 0.91%
```

Run 1: Report of Sprout — Data Link

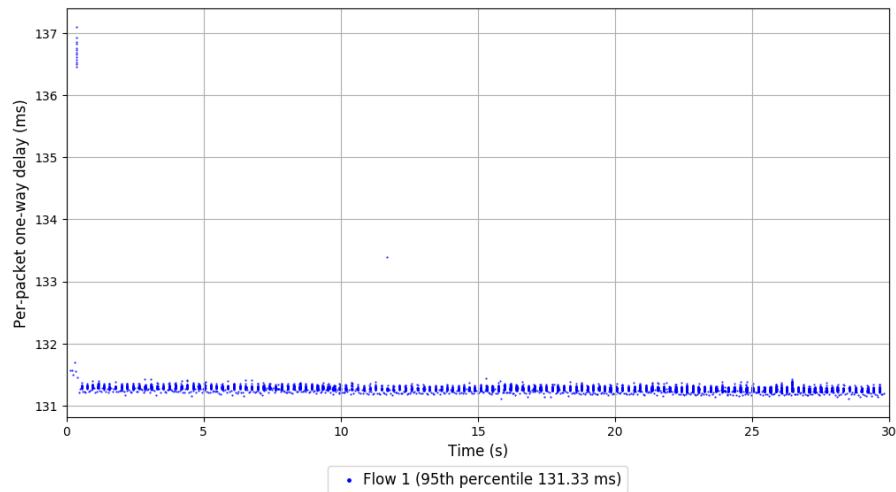
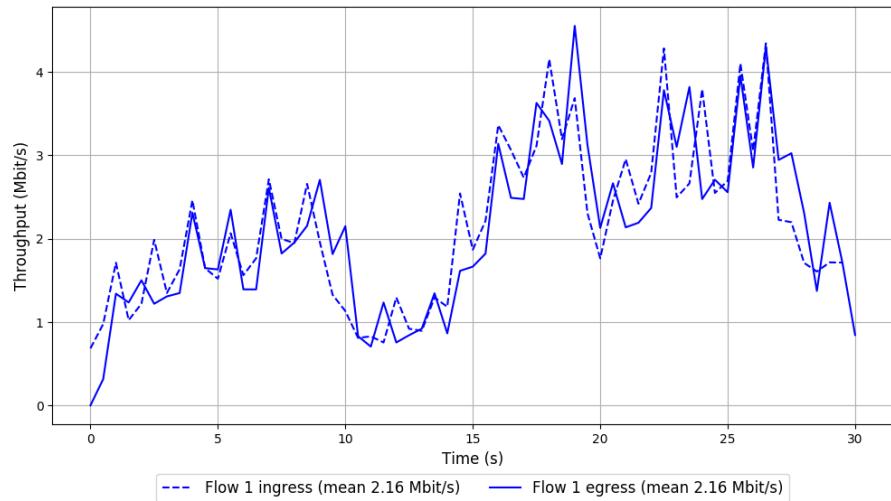


Run 2: Statistics of Sprout

```
Start at: 2019-01-19 06:06:09
End at: 2019-01-19 06:06:39
Local clock offset: 0.98 ms
Remote clock offset: -35.547 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 131.329 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 131.329 ms
Loss rate: 0.68%
```

Run 2: Report of Sprout — Data Link

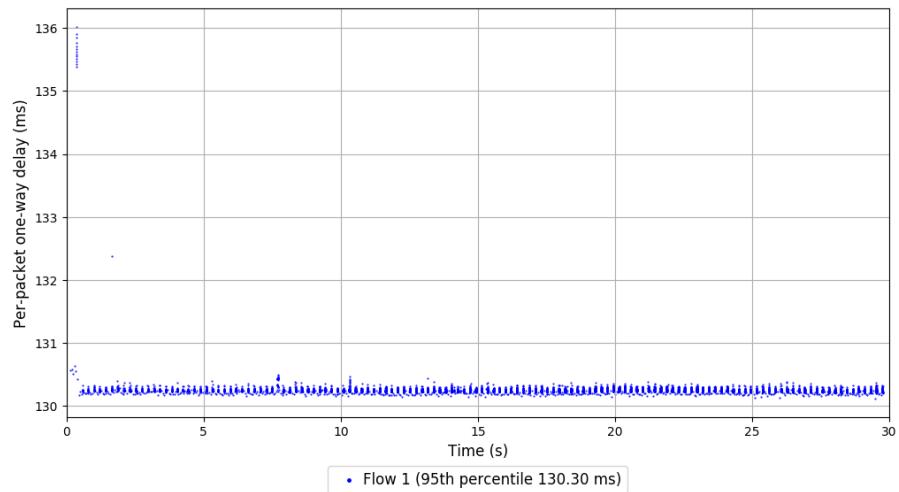
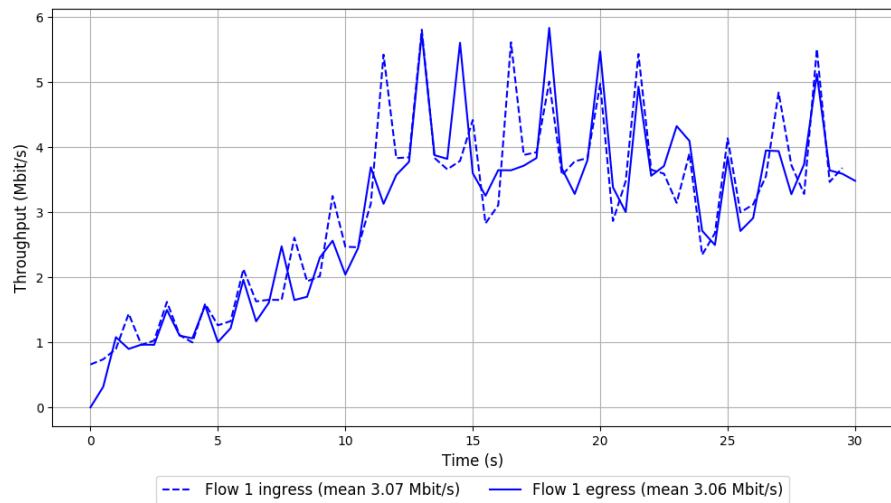


Run 3: Statistics of Sprout

```
Start at: 2019-01-19 06:39:53
End at: 2019-01-19 06:40:23
Local clock offset: 1.554 ms
Remote clock offset: -33.937 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 130.300 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 130.300 ms
Loss rate: 1.06%
```

Run 3: Report of Sprout — Data Link

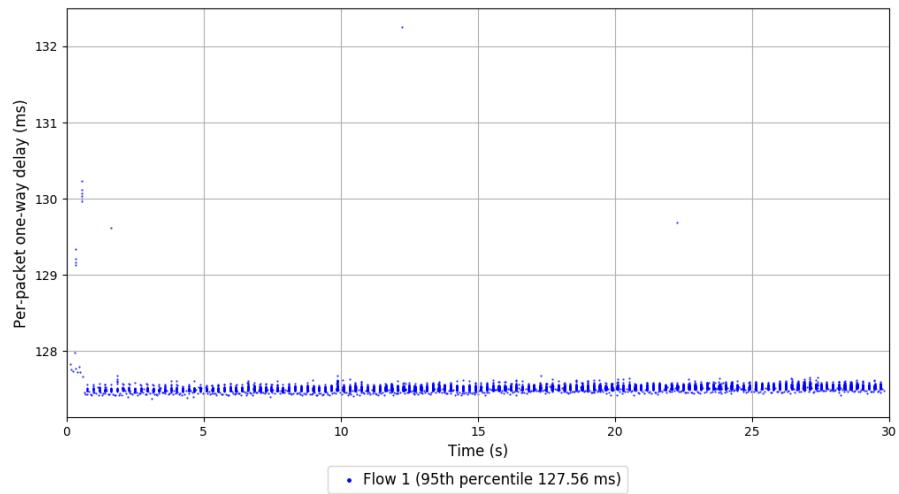
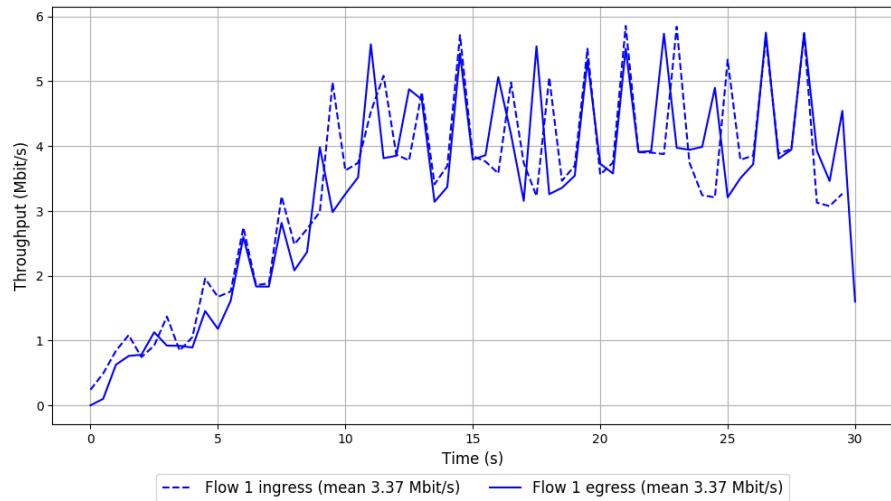


Run 4: Statistics of Sprout

```
Start at: 2019-01-19 07:13:03
End at: 2019-01-19 07:13:33
Local clock offset: 0.215 ms
Remote clock offset: -30.134 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 127.555 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 127.555 ms
Loss rate: 0.83%
```

Run 4: Report of Sprout — Data Link

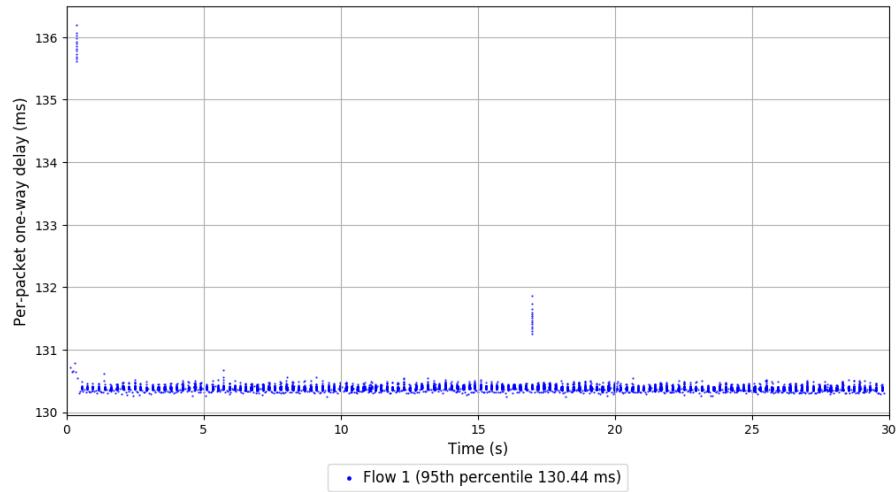
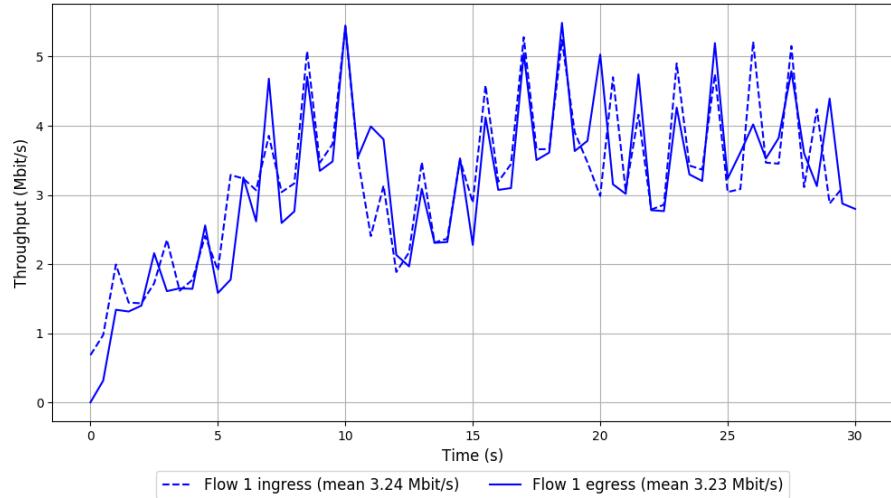


Run 5: Statistics of Sprout

```
Start at: 2019-01-19 07:52:45
End at: 2019-01-19 07:53:15
Local clock offset: -1.048 ms
Remote clock offset: -35.565 ms

# Below is generated by plot.py at 2019-01-19 08:38:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 130.439 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 130.439 ms
Loss rate: 0.88%
```

Run 5: Report of Sprout — Data Link

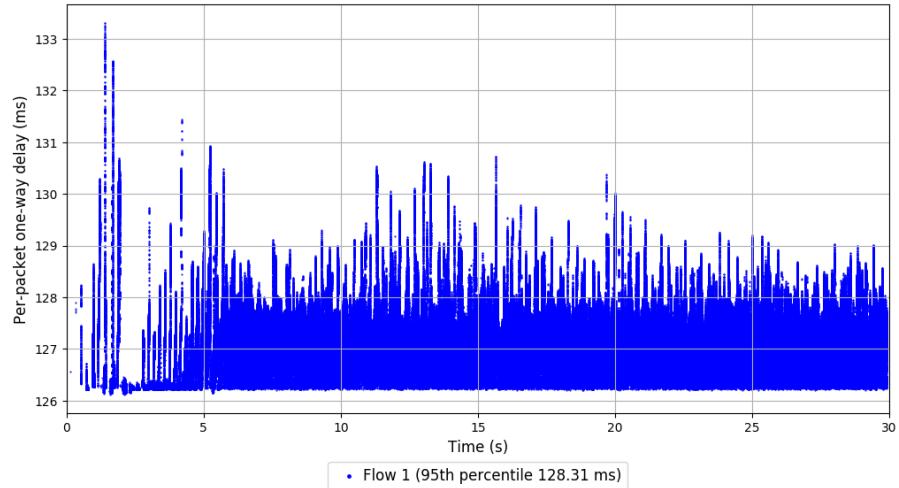
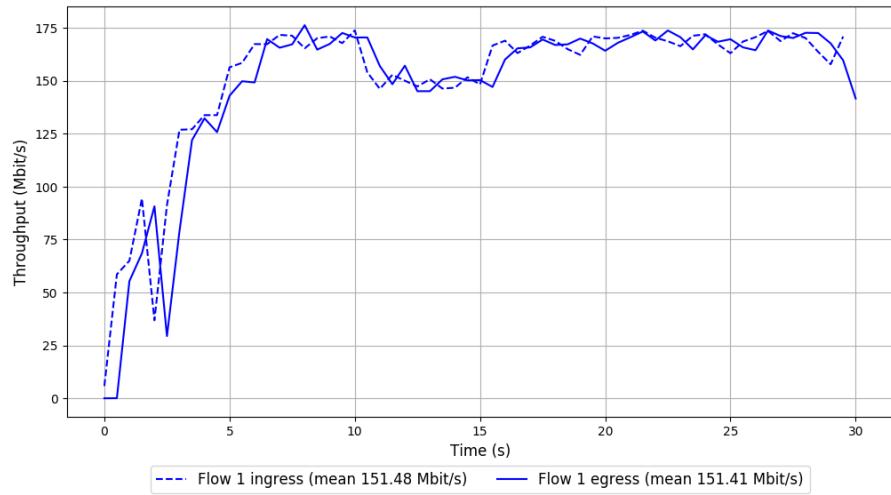


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-19 05:29:42
End at: 2019-01-19 05:30:12
Local clock offset: 0.233 ms
Remote clock offset: -28.794 ms

# Below is generated by plot.py at 2019-01-19 08:40:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 151.41 Mbit/s
95th percentile per-packet one-way delay: 128.309 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 151.41 Mbit/s
95th percentile per-packet one-way delay: 128.309 ms
Loss rate: 0.70%
```

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

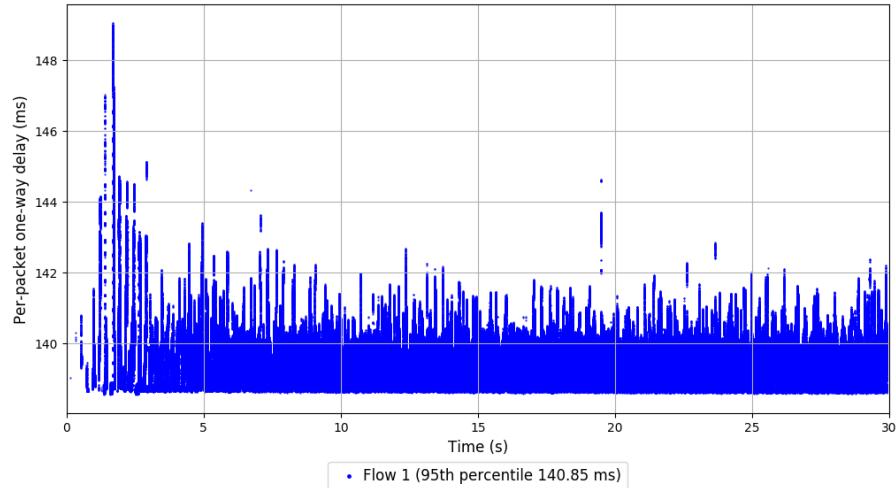
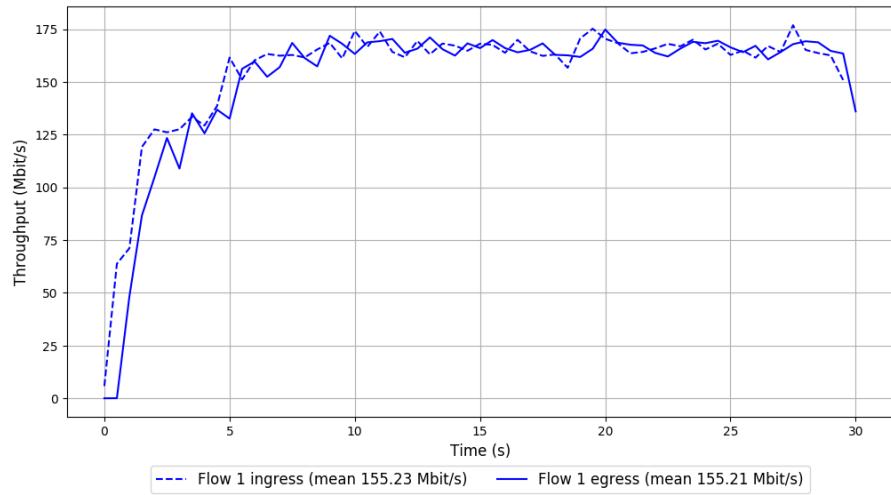


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-19 06:03:33
End at: 2019-01-19 06:04:03
Local clock offset: -0.345 ms
Remote clock offset: -42.512 ms

# Below is generated by plot.py at 2019-01-19 08:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.21 Mbit/s
95th percentile per-packet one-way delay: 140.848 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 155.21 Mbit/s
95th percentile per-packet one-way delay: 140.848 ms
Loss rate: 0.65%
```

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

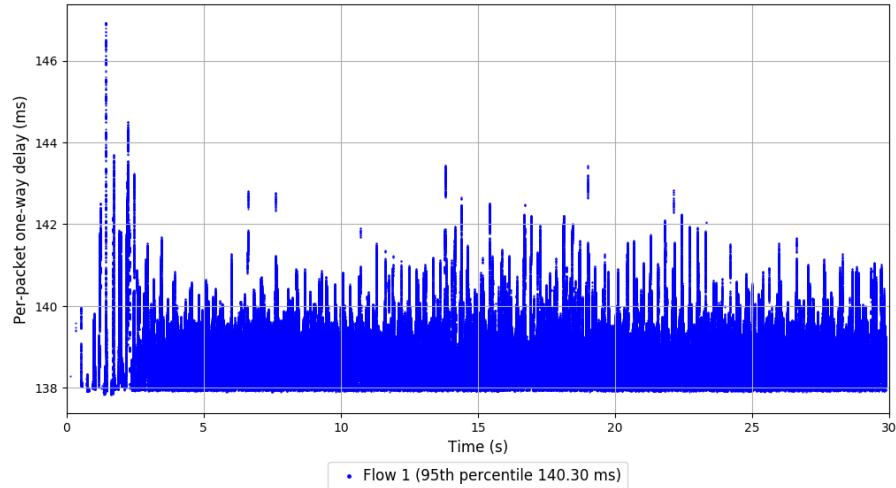
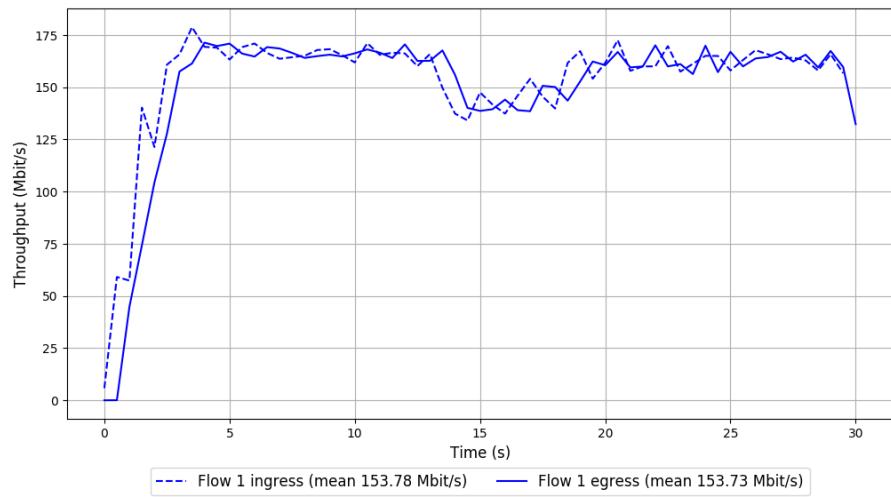


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-19 06:37:12
End at: 2019-01-19 06:37:42
Local clock offset: -0.002 ms
Remote clock offset: -43.262 ms

# Below is generated by plot.py at 2019-01-19 08:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.73 Mbit/s
95th percentile per-packet one-way delay: 140.298 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 153.73 Mbit/s
95th percentile per-packet one-way delay: 140.298 ms
Loss rate: 0.77%
```

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

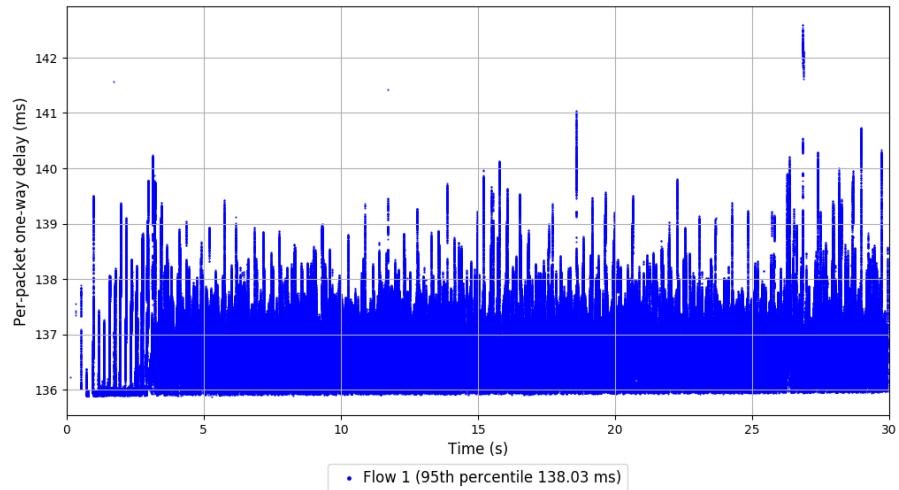
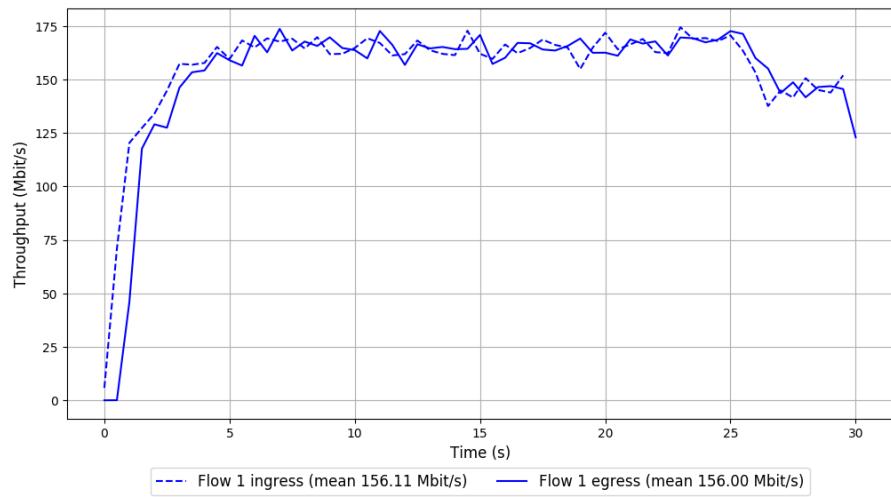


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-19 07:10:20
End at: 2019-01-19 07:10:50
Local clock offset: -2.075 ms
Remote clock offset: -41.21 ms

# Below is generated by plot.py at 2019-01-19 08:40:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.00 Mbit/s
95th percentile per-packet one-way delay: 138.027 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 156.00 Mbit/s
95th percentile per-packet one-way delay: 138.027 ms
Loss rate: 0.69%
```

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

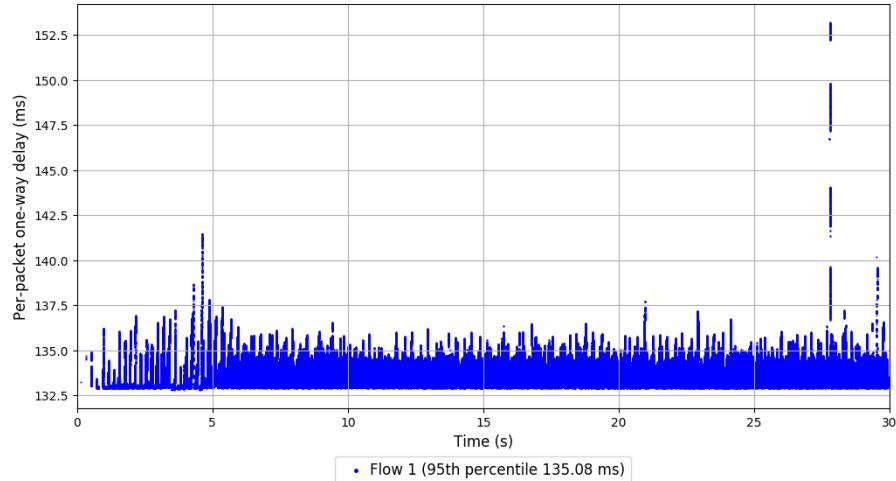
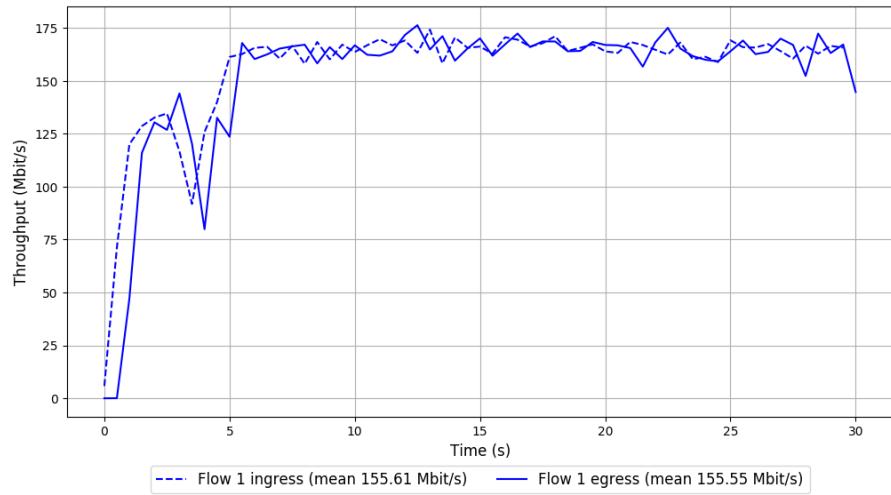


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-19 07:50:02
End at: 2019-01-19 07:50:32
Local clock offset: -0.463 ms
Remote clock offset: -36.135 ms

# Below is generated by plot.py at 2019-01-19 08:41:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.55 Mbit/s
95th percentile per-packet one-way delay: 135.081 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 155.55 Mbit/s
95th percentile per-packet one-way delay: 135.081 ms
Loss rate: 0.69%
```

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

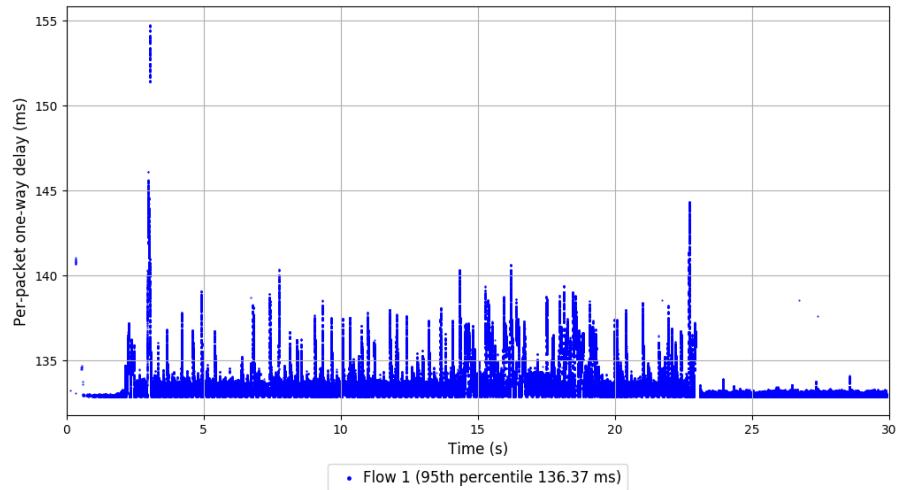
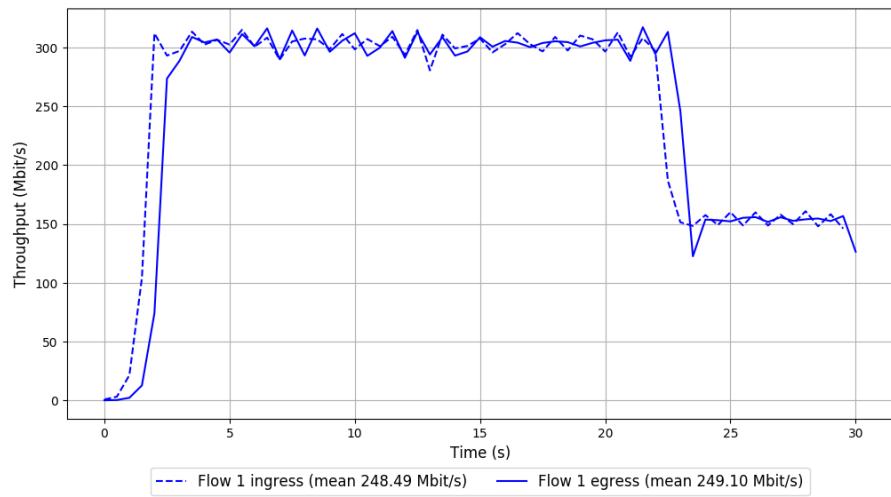


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-19 05:35:05
End at: 2019-01-19 05:35:35
Local clock offset: 1.304 ms
Remote clock offset: -34.505 ms

# Below is generated by plot.py at 2019-01-19 08:41:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.10 Mbit/s
95th percentile per-packet one-way delay: 136.372 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 249.10 Mbit/s
95th percentile per-packet one-way delay: 136.372 ms
Loss rate: 0.41%
```

Run 1: Report of TCP Vegas — Data Link

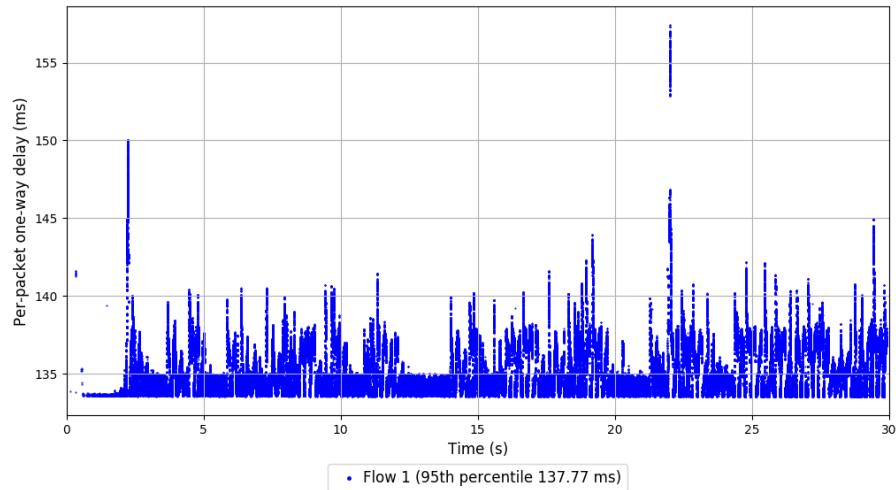
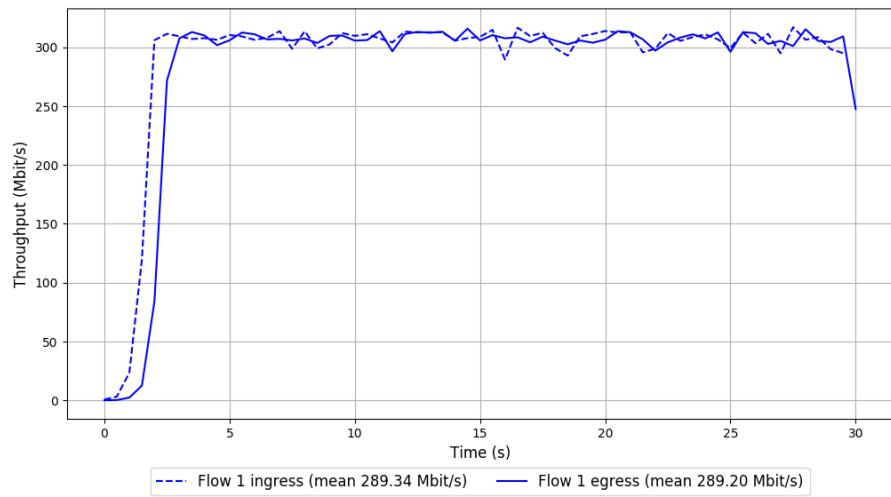


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-19 06:08:45
End at: 2019-01-19 06:09:15
Local clock offset: -0.14 ms
Remote clock offset: -37.677 ms

# Below is generated by plot.py at 2019-01-19 08:41:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 289.20 Mbit/s
95th percentile per-packet one-way delay: 137.766 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 289.20 Mbit/s
95th percentile per-packet one-way delay: 137.766 ms
Loss rate: 0.70%
```

Run 2: Report of TCP Vegas — Data Link

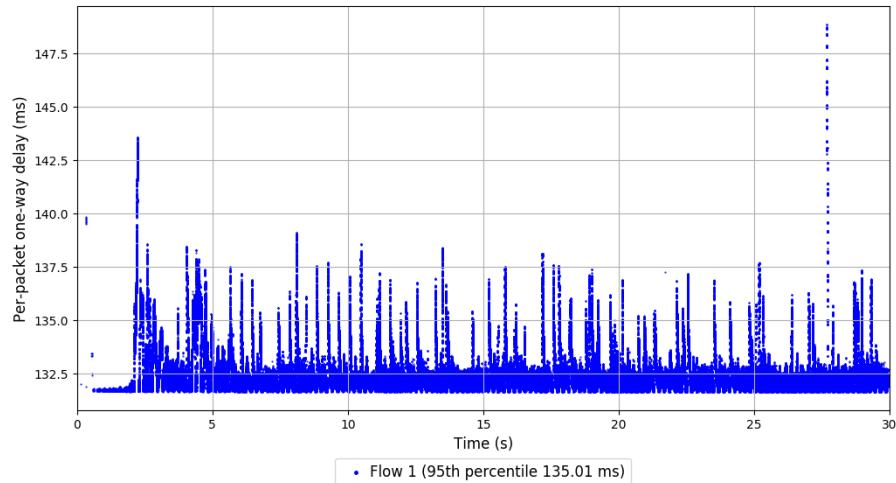
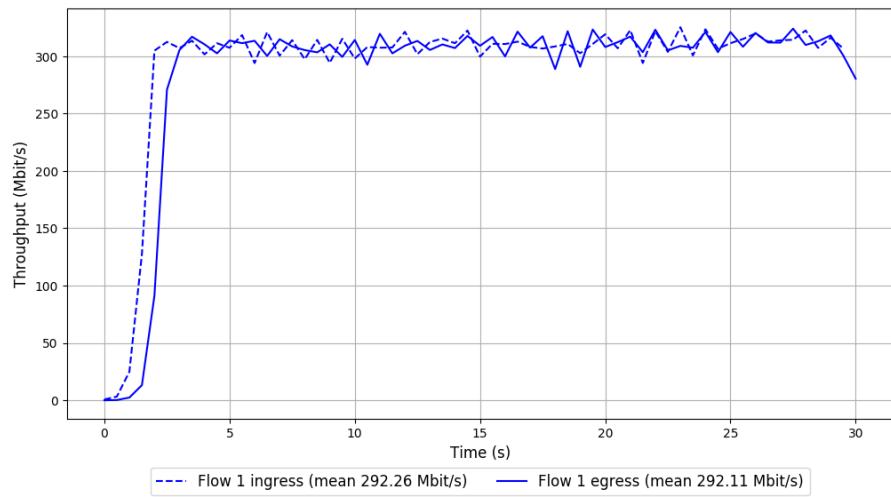


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-19 06:42:30
End at: 2019-01-19 06:43:00
Local clock offset: 1.657 ms
Remote clock offset: -36.892 ms

# Below is generated by plot.py at 2019-01-19 08:41:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.11 Mbit/s
95th percentile per-packet one-way delay: 135.013 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 292.11 Mbit/s
95th percentile per-packet one-way delay: 135.013 ms
Loss rate: 0.70%
```

Run 3: Report of TCP Vegas — Data Link

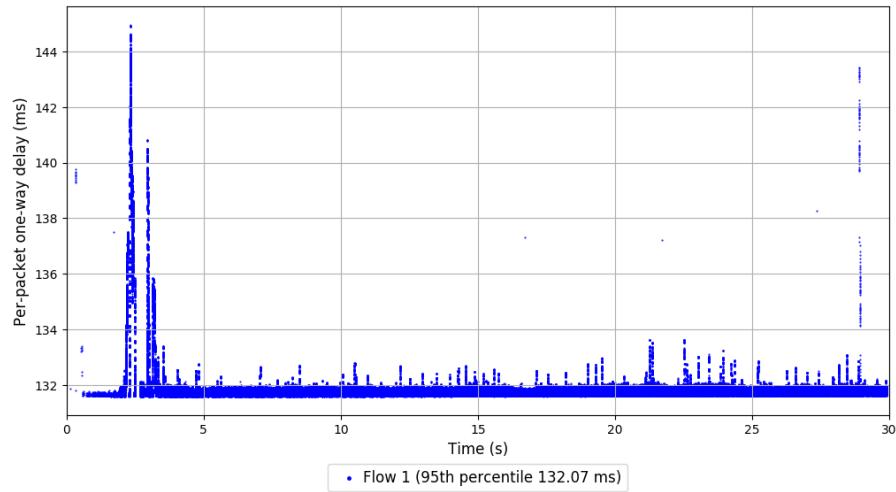
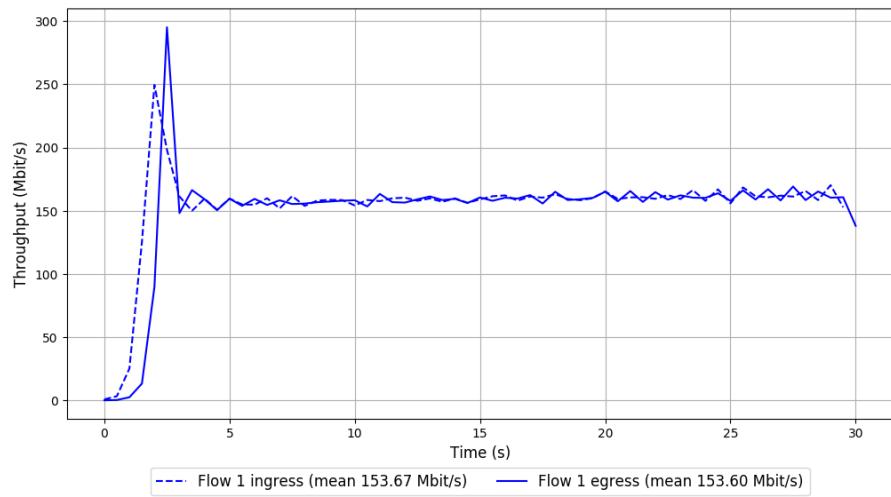


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-19 07:15:39
End at: 2019-01-19 07:16:09
Local clock offset: -1.123 ms
Remote clock offset: -36.874 ms

# Below is generated by plot.py at 2019-01-19 08:42:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.60 Mbit/s
95th percentile per-packet one-way delay: 132.068 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 153.60 Mbit/s
95th percentile per-packet one-way delay: 132.068 ms
Loss rate: 0.69%
```

Run 4: Report of TCP Vegas — Data Link

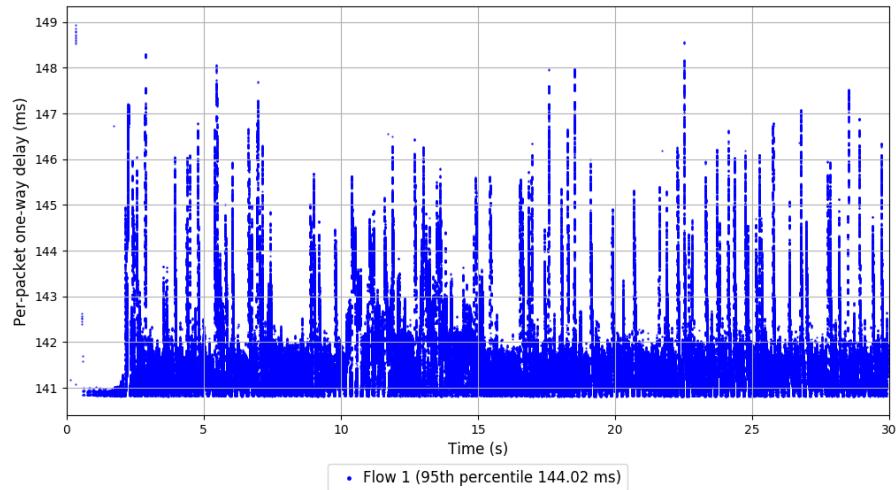
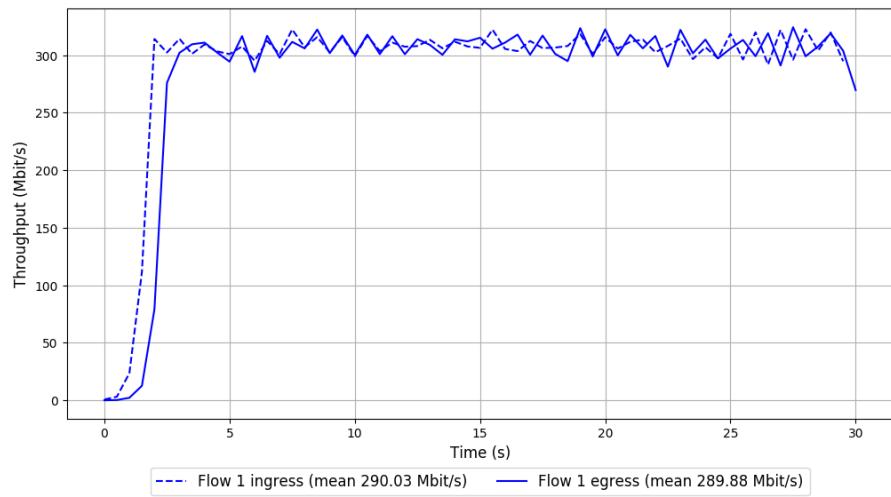


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-19 07:55:22
End at: 2019-01-19 07:55:52
Local clock offset: 0.858 ms
Remote clock offset: -42.803 ms

# Below is generated by plot.py at 2019-01-19 08:43:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 289.88 Mbit/s
95th percentile per-packet one-way delay: 144.018 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 289.88 Mbit/s
95th percentile per-packet one-way delay: 144.018 ms
Loss rate: 0.70%
```

Run 5: Report of TCP Vegas — Data Link

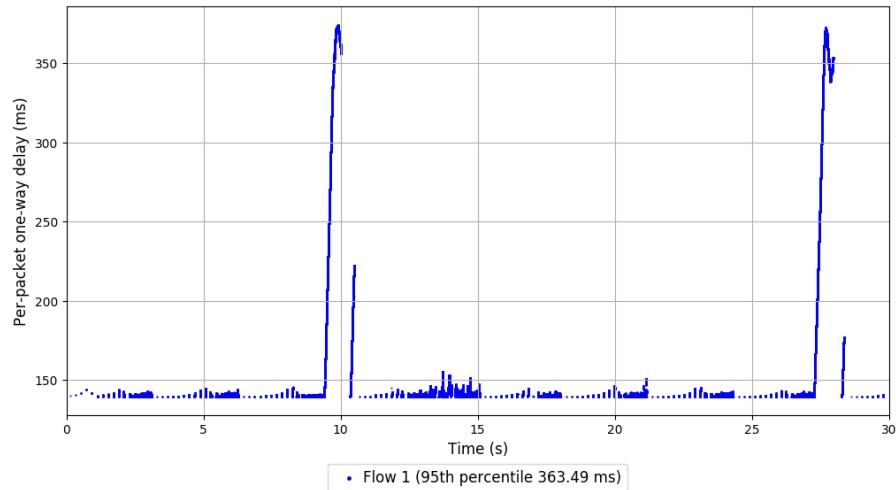
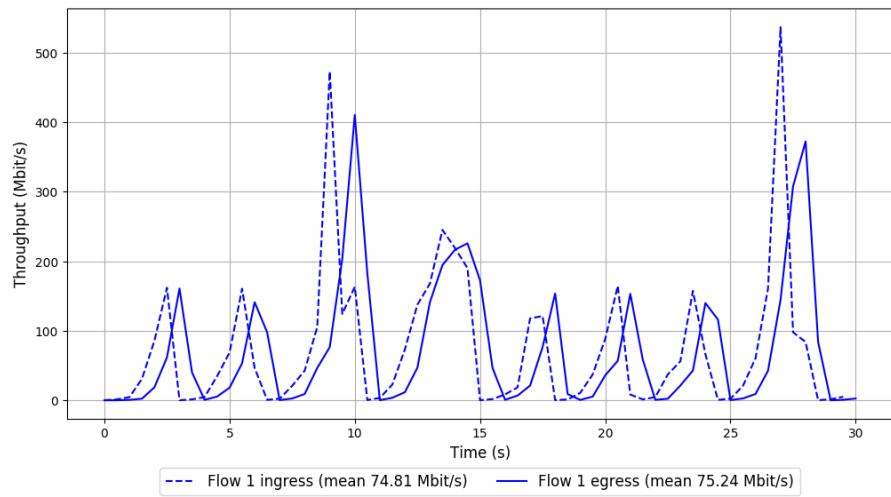


Run 1: Statistics of Verus

```
Start at: 2019-01-19 05:44:46
End at: 2019-01-19 05:45:16
Local clock offset: 1.29 ms
Remote clock offset: -40.91 ms

# Below is generated by plot.py at 2019-01-19 08:43:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.24 Mbit/s
95th percentile per-packet one-way delay: 363.488 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 75.24 Mbit/s
95th percentile per-packet one-way delay: 363.488 ms
Loss rate: 0.09%
```

Run 1: Report of Verus — Data Link

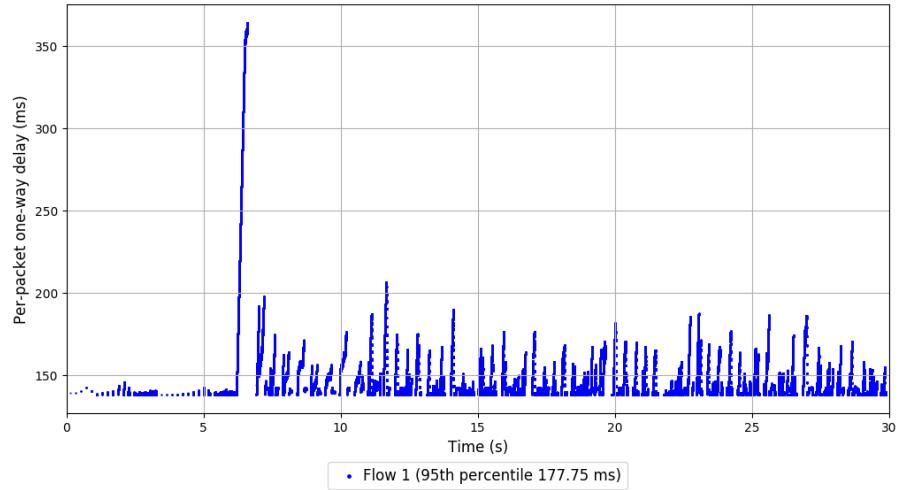
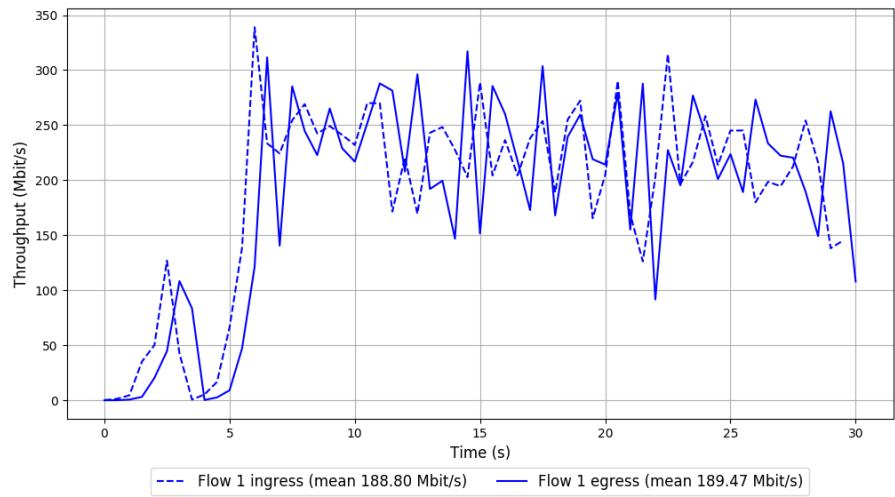


Run 2: Statistics of Verus

```
Start at: 2019-01-19 06:12:56
End at: 2019-01-19 06:13:26
Local clock offset: 0.258 ms
Remote clock offset: -43.528 ms

# Below is generated by plot.py at 2019-01-19 08:43:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.47 Mbit/s
95th percentile per-packet one-way delay: 177.749 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 189.47 Mbit/s
95th percentile per-packet one-way delay: 177.749 ms
Loss rate: 0.47%
```

Run 2: Report of Verus — Data Link

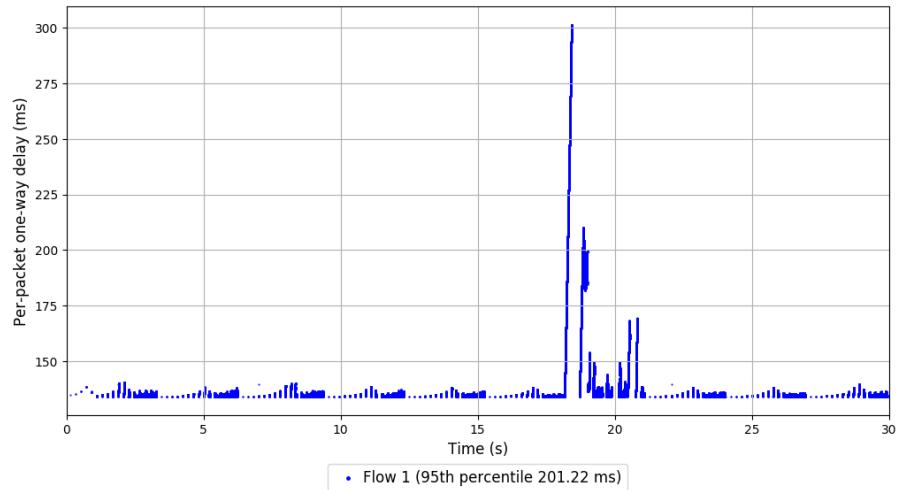
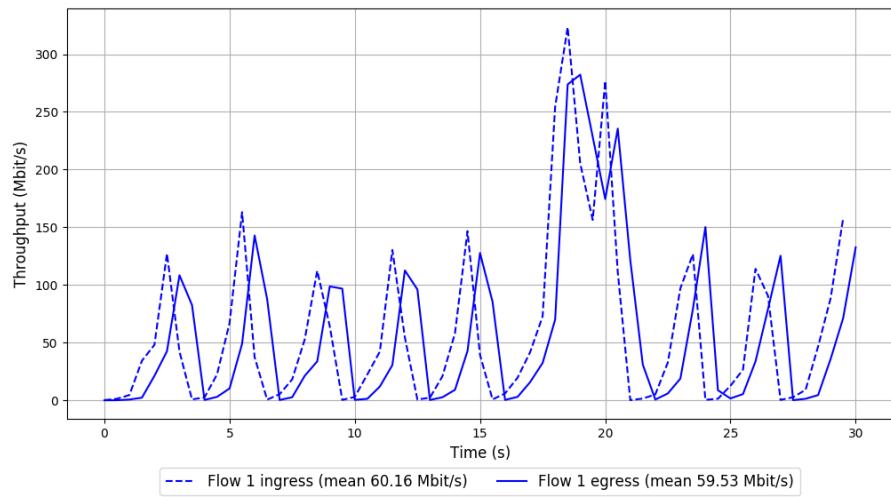


Run 3: Statistics of Verus

```
Start at: 2019-01-19 06:46:42
End at: 2019-01-19 06:47:12
Local clock offset: 0.567 ms
Remote clock offset: -38.791 ms

# Below is generated by plot.py at 2019-01-19 08:43:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.53 Mbit/s
95th percentile per-packet one-way delay: 201.217 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 59.53 Mbit/s
95th percentile per-packet one-way delay: 201.217 ms
Loss rate: 1.65%
```

Run 3: Report of Verus — Data Link

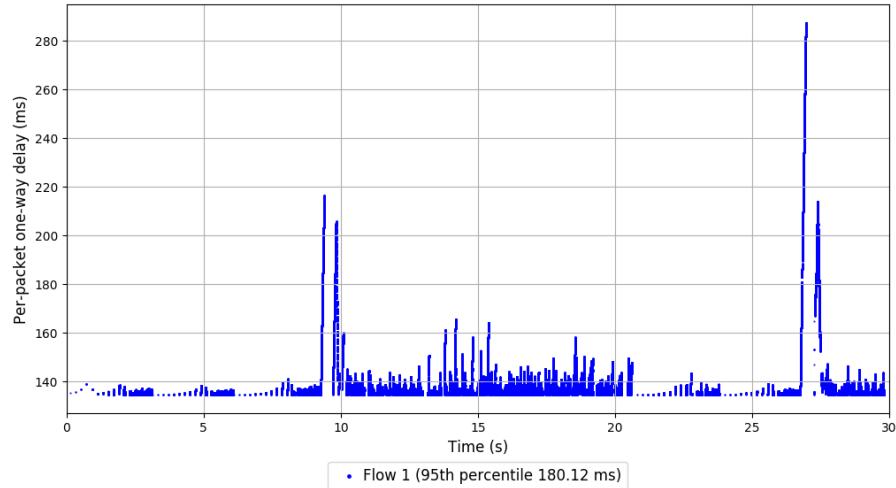
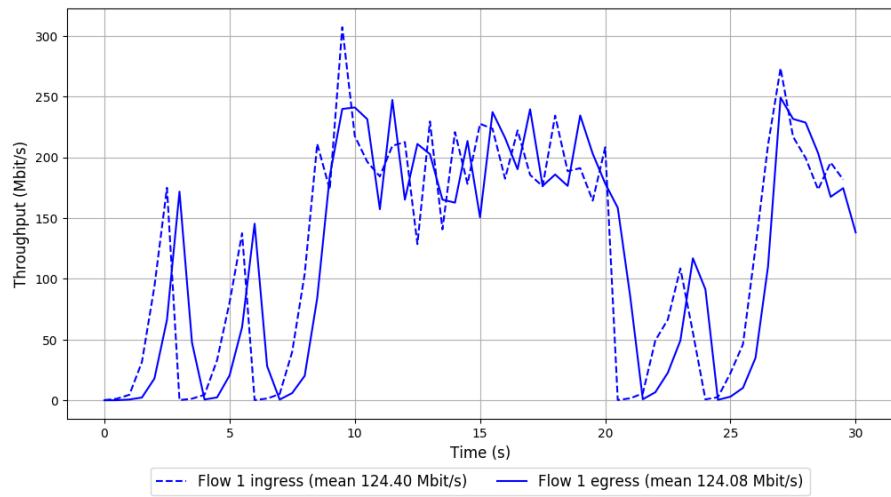


Run 4: Statistics of Verus

```
Start at: 2019-01-19 07:25:48
End at: 2019-01-19 07:26:18
Local clock offset: -0.742 ms
Remote clock offset: -37.749 ms

# Below is generated by plot.py at 2019-01-19 08:43:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 124.08 Mbit/s
95th percentile per-packet one-way delay: 180.121 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 124.08 Mbit/s
95th percentile per-packet one-way delay: 180.121 ms
Loss rate: 1.30%
```

Run 4: Report of Verus — Data Link

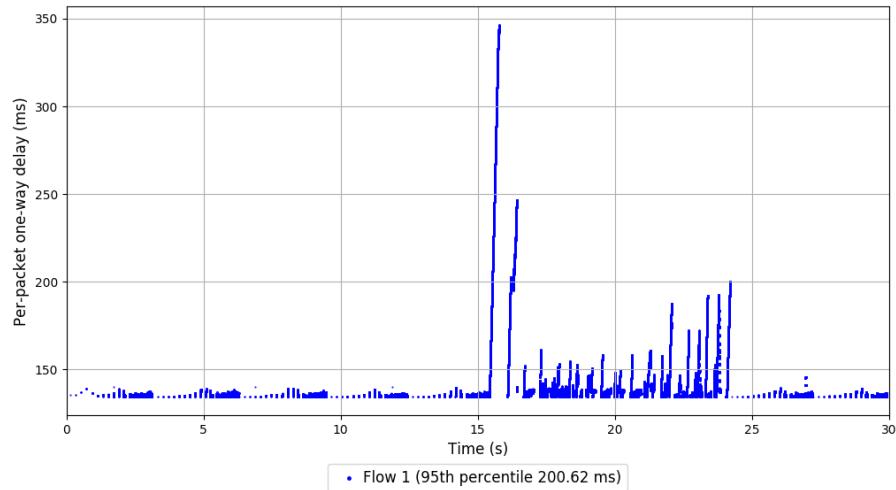
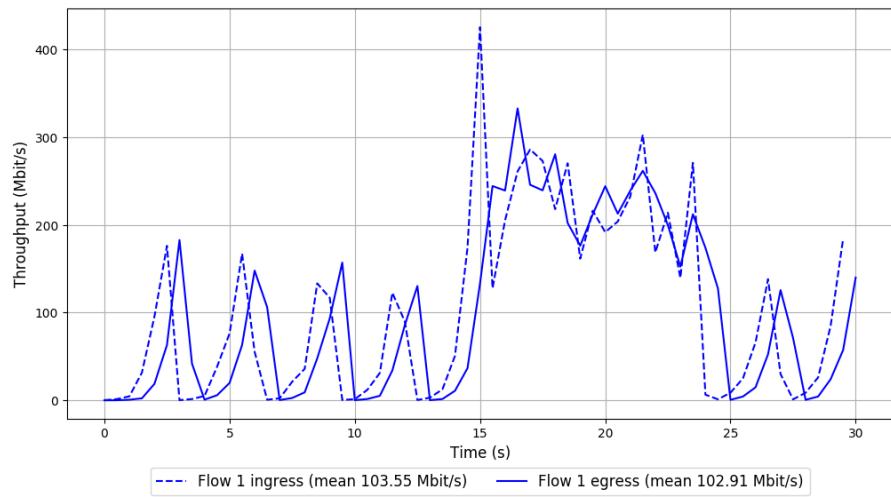


Run 5: Statistics of Verus

```
Start at: 2019-01-19 07:59:33
End at: 2019-01-19 08:00:03
Local clock offset: -0.691 ms
Remote clock offset: -37.931 ms

# Below is generated by plot.py at 2019-01-19 08:43:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 102.91 Mbit/s
95th percentile per-packet one-way delay: 200.615 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 102.91 Mbit/s
95th percentile per-packet one-way delay: 200.615 ms
Loss rate: 1.27%
```

Run 5: Report of Verus — Data Link

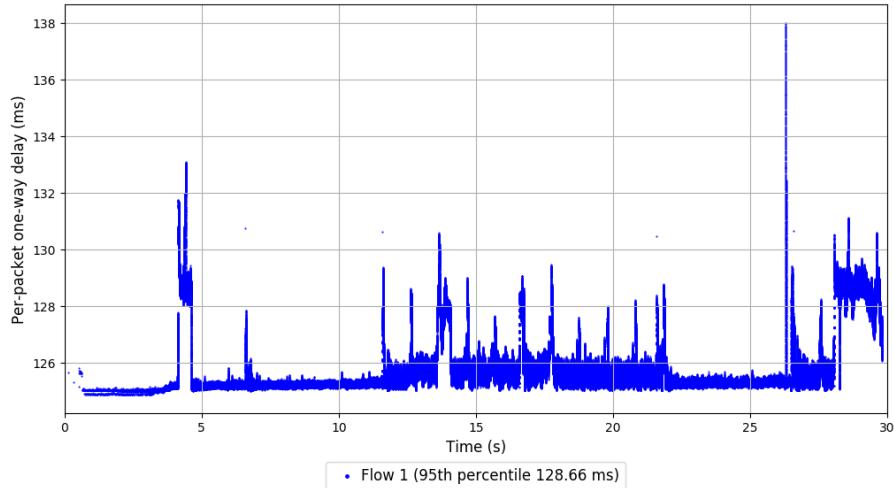
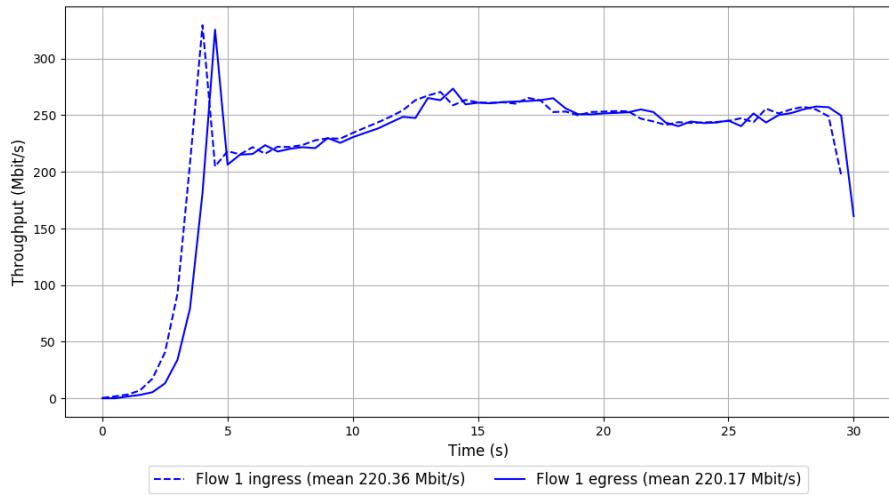


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-19 05:36:27
End at: 2019-01-19 05:36:57
Local clock offset: 1.222 ms
Remote clock offset: -28.078 ms

# Below is generated by plot.py at 2019-01-19 08:43:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.17 Mbit/s
95th percentile per-packet one-way delay: 128.657 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 220.17 Mbit/s
95th percentile per-packet one-way delay: 128.657 ms
Loss rate: 0.75%
```

Run 1: Report of PCC-Vivace — Data Link

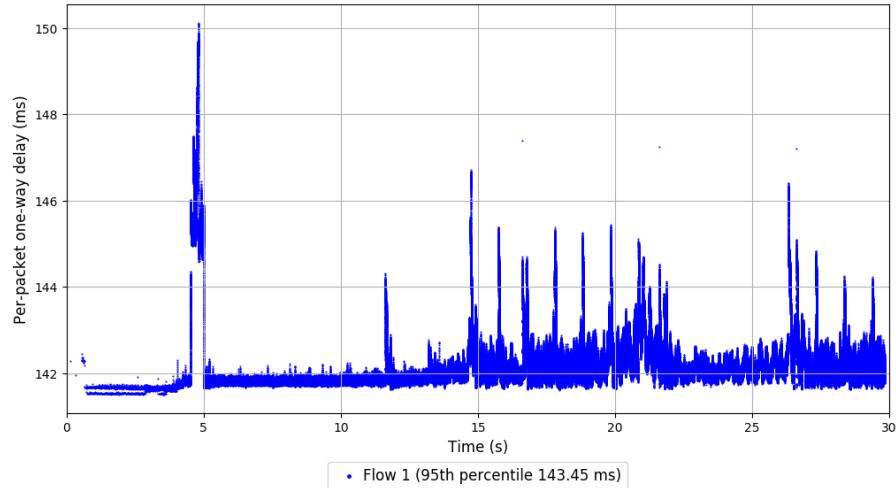
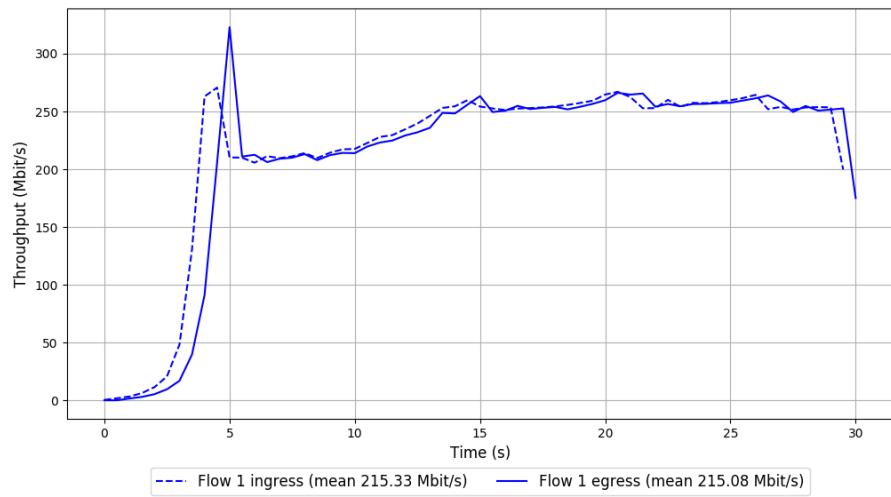


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-19 06:10:08
End at: 2019-01-19 06:10:38
Local clock offset: 0.608 ms
Remote clock offset: -45.24 ms

# Below is generated by plot.py at 2019-01-19 08:43:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.08 Mbit/s
95th percentile per-packet one-way delay: 143.447 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 215.08 Mbit/s
95th percentile per-packet one-way delay: 143.447 ms
Loss rate: 0.77%
```

Run 2: Report of PCC-Vivace — Data Link

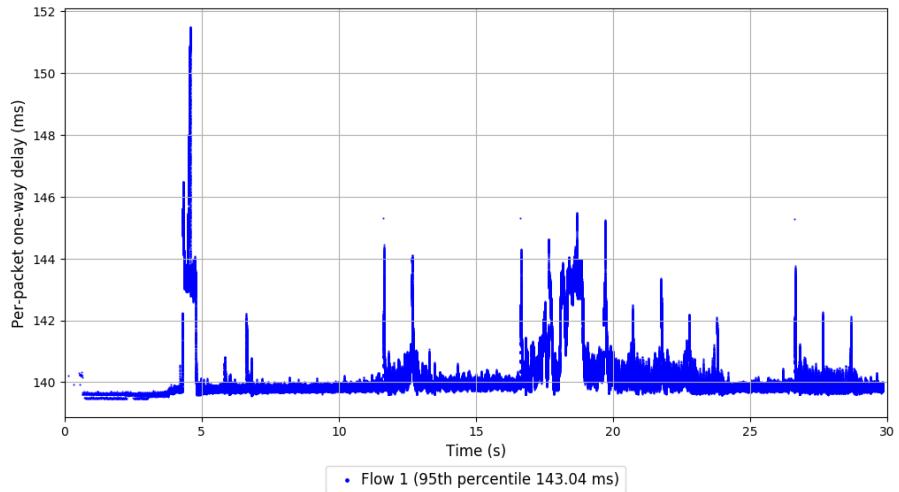
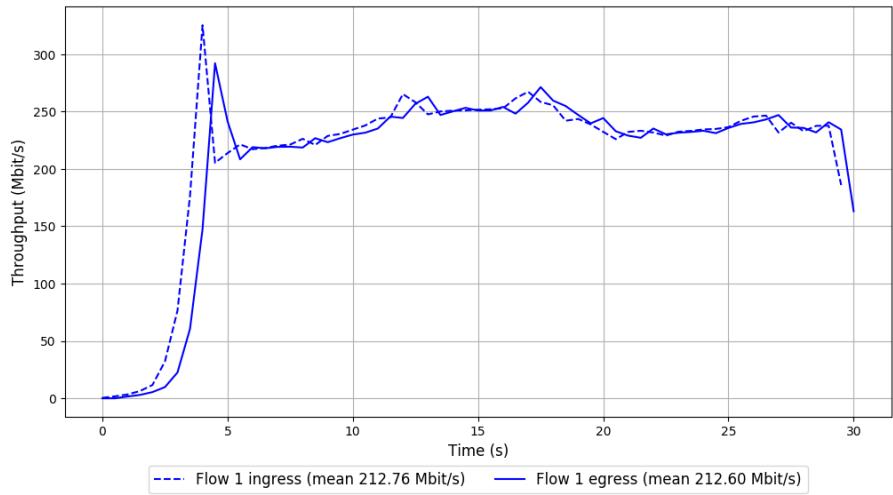


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-19 06:43:54
End at: 2019-01-19 06:44:24
Local clock offset: 2.195 ms
Remote clock offset: -44.353 ms

# Below is generated by plot.py at 2019-01-19 08:43:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.60 Mbit/s
95th percentile per-packet one-way delay: 143.044 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 212.60 Mbit/s
95th percentile per-packet one-way delay: 143.044 ms
Loss rate: 0.72%
```

Run 3: Report of PCC-Vivace — Data Link

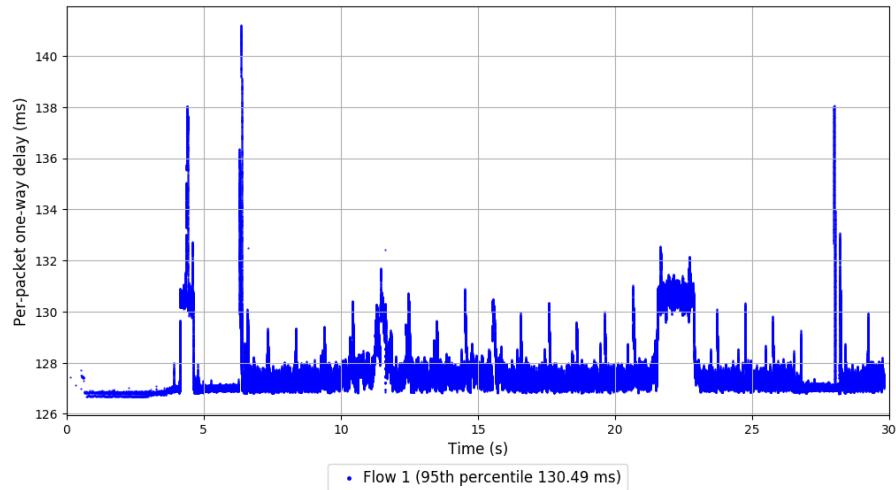
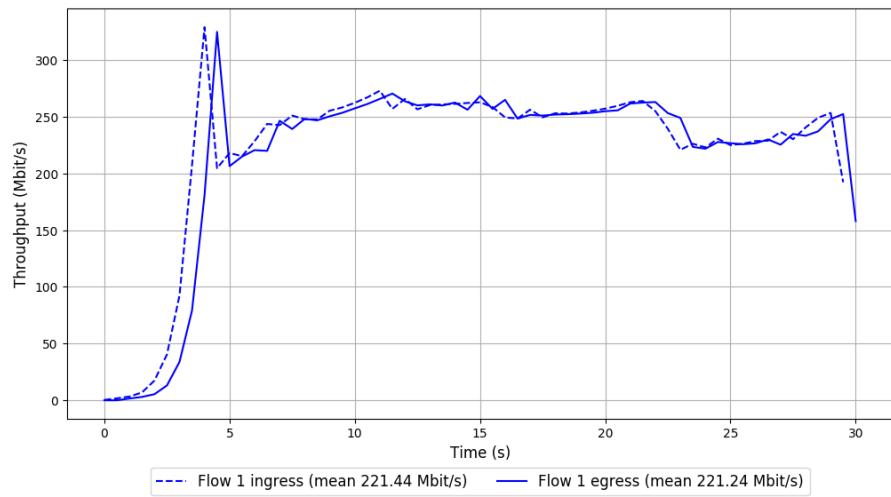


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-19 07:16:57
End at: 2019-01-19 07:17:27
Local clock offset: 0.138 ms
Remote clock offset: -30.786 ms

# Below is generated by plot.py at 2019-01-19 08:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.24 Mbit/s
95th percentile per-packet one-way delay: 130.493 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 221.24 Mbit/s
95th percentile per-packet one-way delay: 130.493 ms
Loss rate: 0.75%
```

Run 4: Report of PCC-Vivace — Data Link

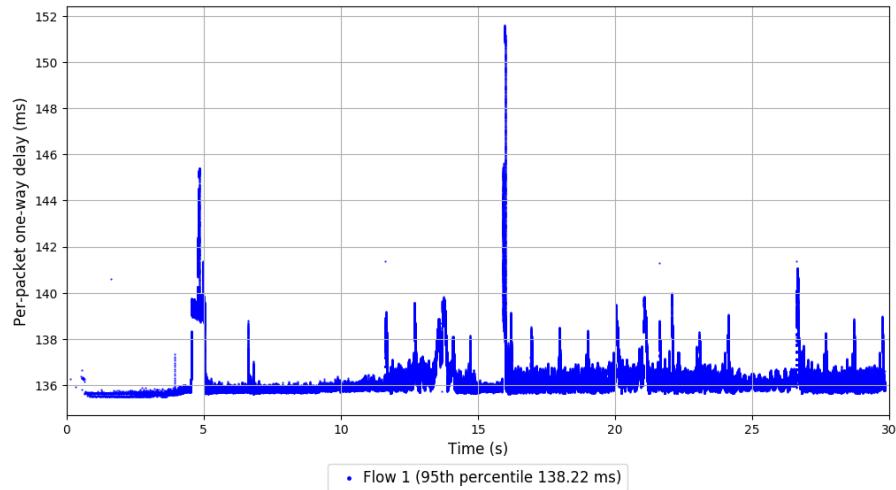
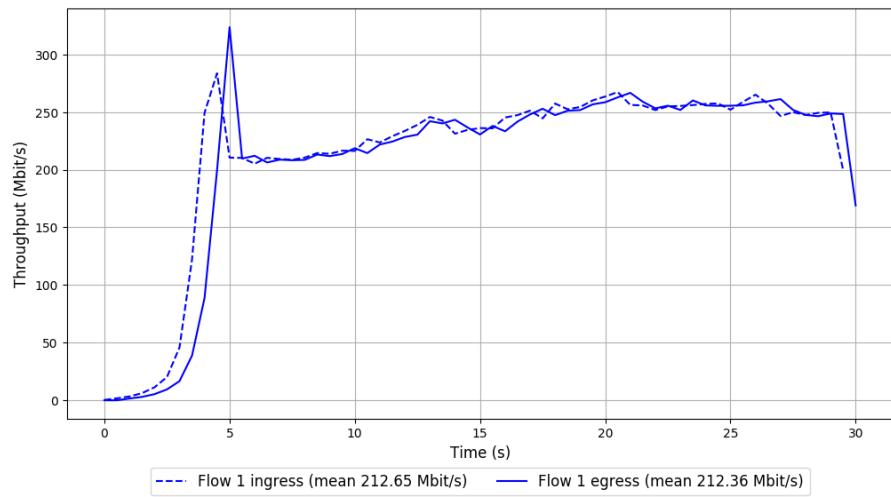


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-19 07:56:46
End at: 2019-01-19 07:57:16
Local clock offset: 0.853 ms
Remote clock offset: -37.639 ms

# Below is generated by plot.py at 2019-01-19 08:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.36 Mbit/s
95th percentile per-packet one-way delay: 138.223 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 212.36 Mbit/s
95th percentile per-packet one-way delay: 138.223 ms
Loss rate: 0.79%
```

Run 5: Report of PCC-Vivace — Data Link

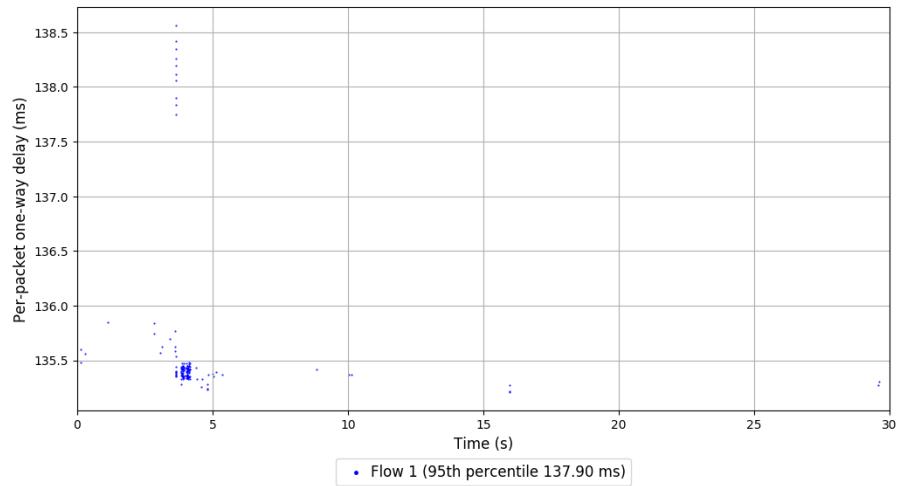
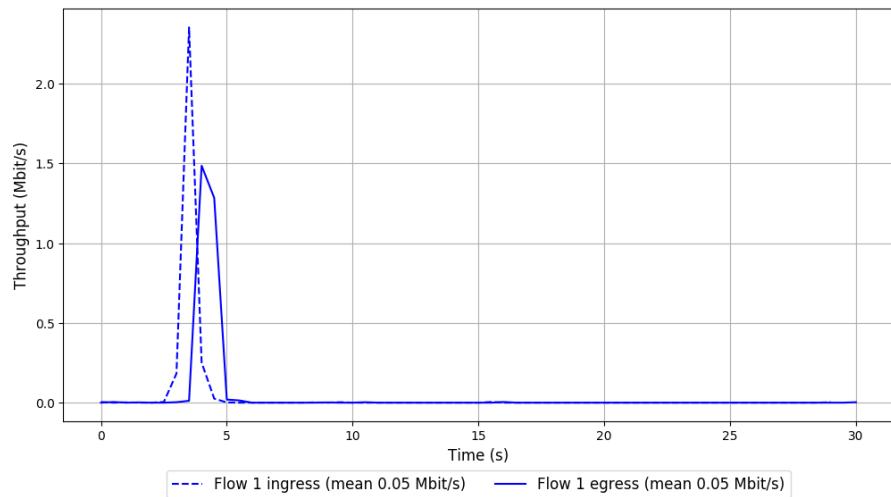


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-19 05:24:38
End at: 2019-01-19 05:25:08
Local clock offset: 2.106 ms
Remote clock offset: -36.02 ms

# Below is generated by plot.py at 2019-01-19 08:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 137.899 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 137.899 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

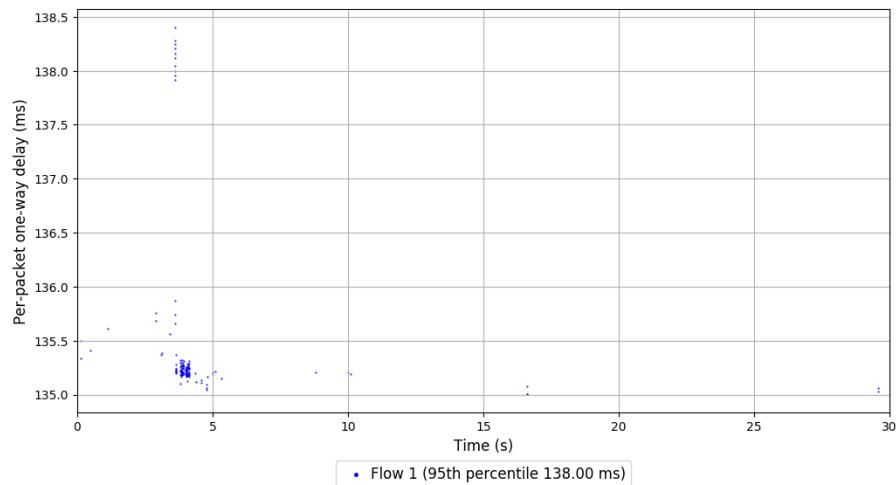
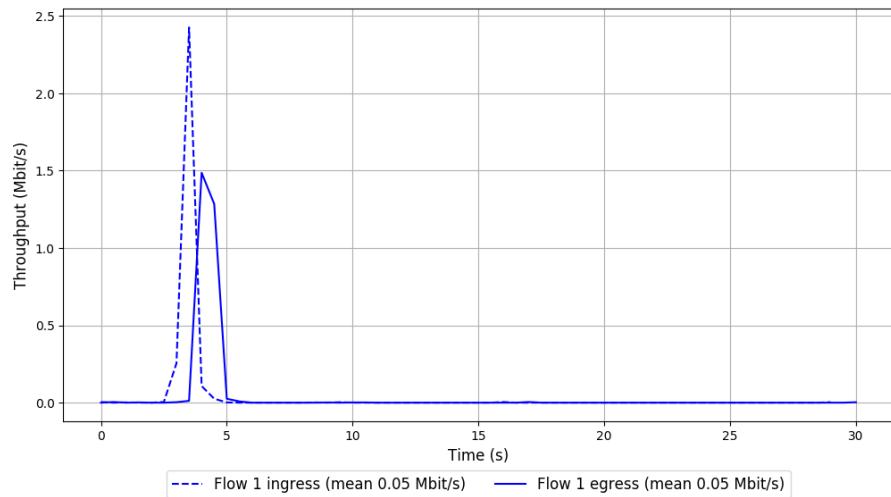


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-19 05:58:29
End at: 2019-01-19 05:58:59
Local clock offset: 2.659 ms
Remote clock offset: -36.721 ms

# Below is generated by plot.py at 2019-01-19 08:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 137.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 137.998 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

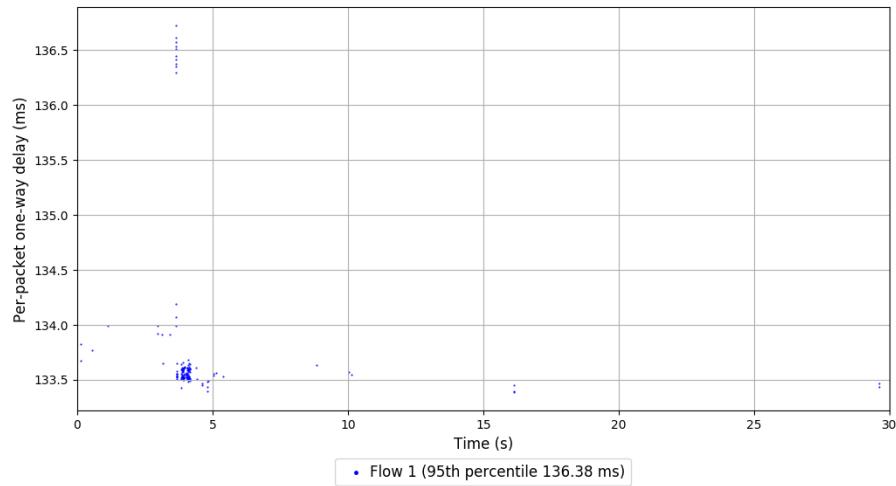
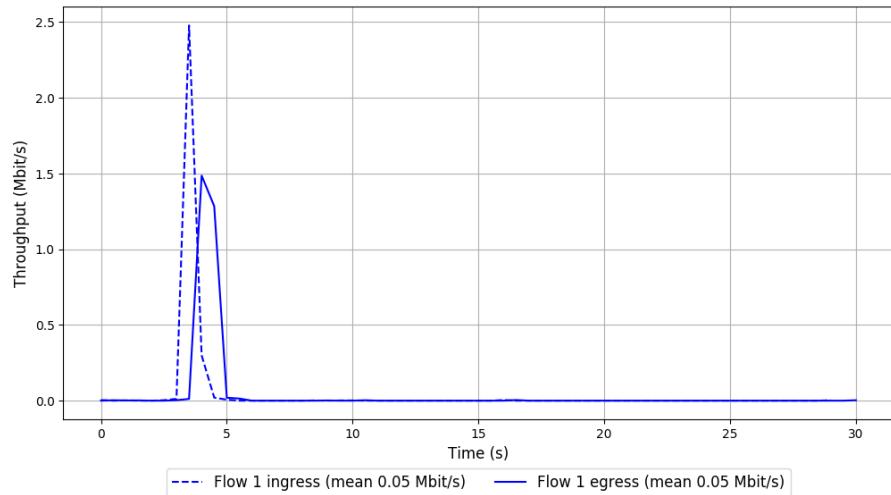


```
Run 3: Statistics of WebRTC media

Start at: 2019-01-19 06:26:32
End at: 2019-01-19 06:27:02
Local clock offset: 1.364 ms
Remote clock offset: -36.833 ms

# Below is generated by plot.py at 2019-01-19 08:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.377 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.377 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

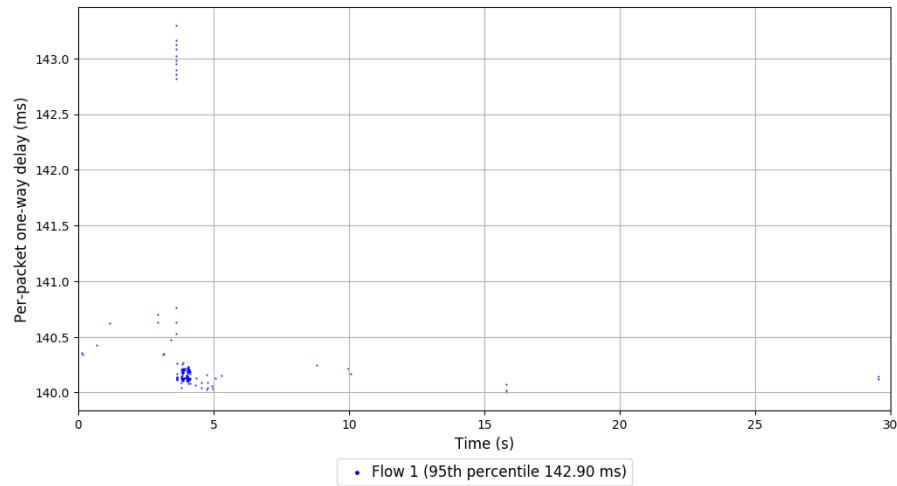
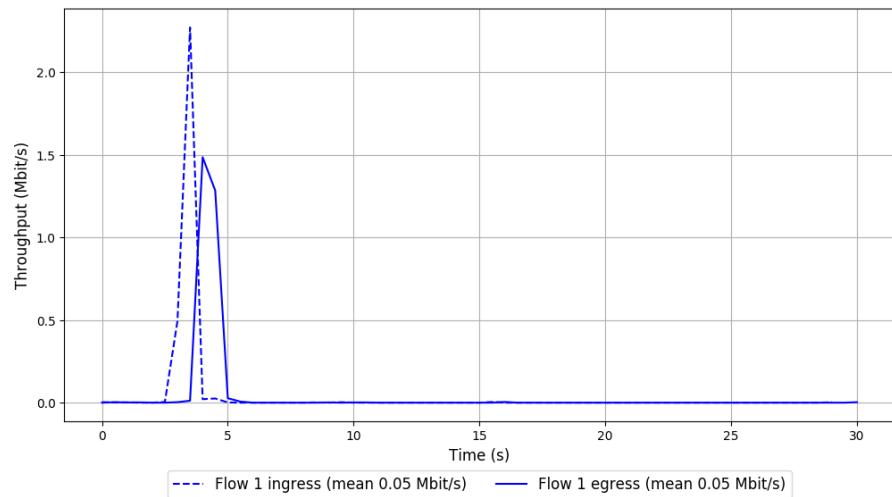


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-19 07:05:16
End at: 2019-01-19 07:05:46
Local clock offset: 0.169 ms
Remote clock offset: -43.712 ms

# Below is generated by plot.py at 2019-01-19 08:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 142.896 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 142.896 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



```
Run 5: Statistics of WebRTC media

Start at: 2019-01-19 07:44:58
End at: 2019-01-19 07:45:28
Local clock offset: -5.925 ms
Remote clock offset: -49.156 ms

# Below is generated by plot.py at 2019-01-19 08:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 142.102 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 142.102 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

