Pantheon Report

Generated at 2017-12-20 02:21:48 (UTC).

Data path: Mexico Ethernet (*remote*) →AWS California 2 Ethernet (*local*).

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

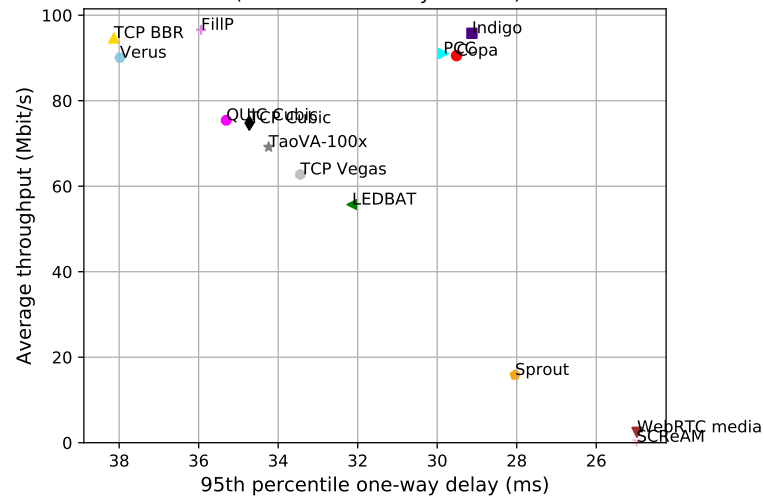Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (`fq`), and other schemes with the default Linux qdisc (`pfifo_fast`).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
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/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
 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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```
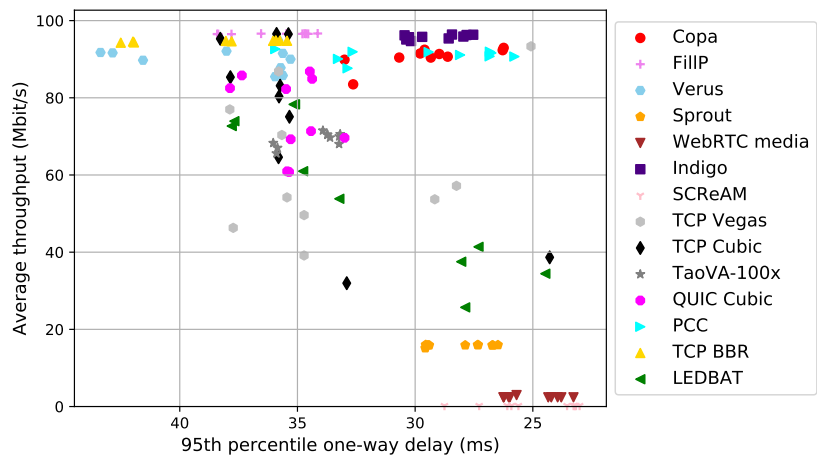
test from Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme (mean of all runs by scheme)

test from Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme
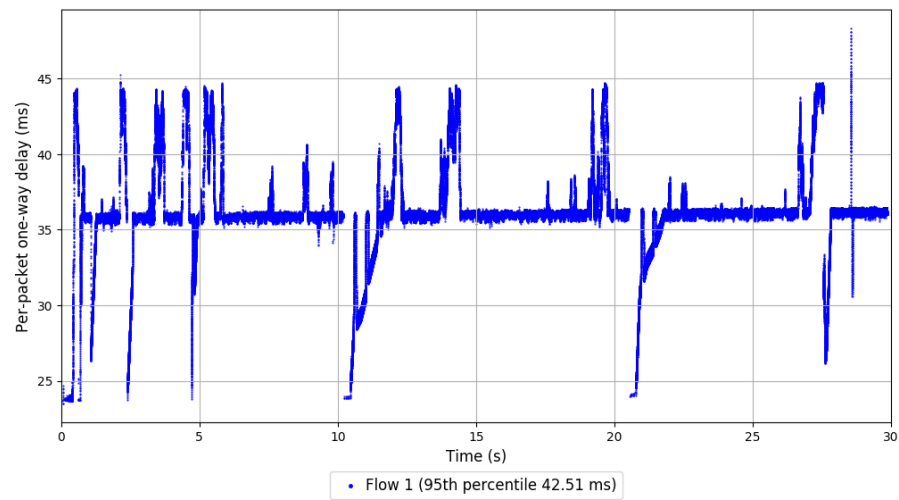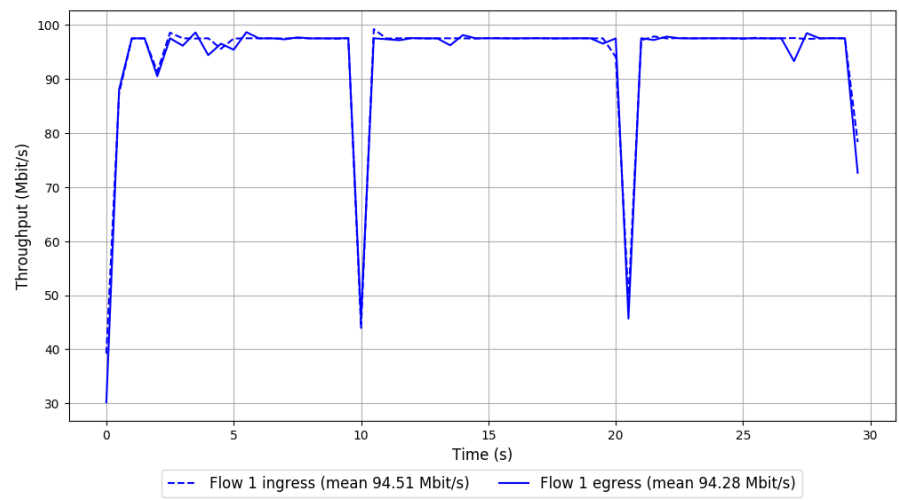
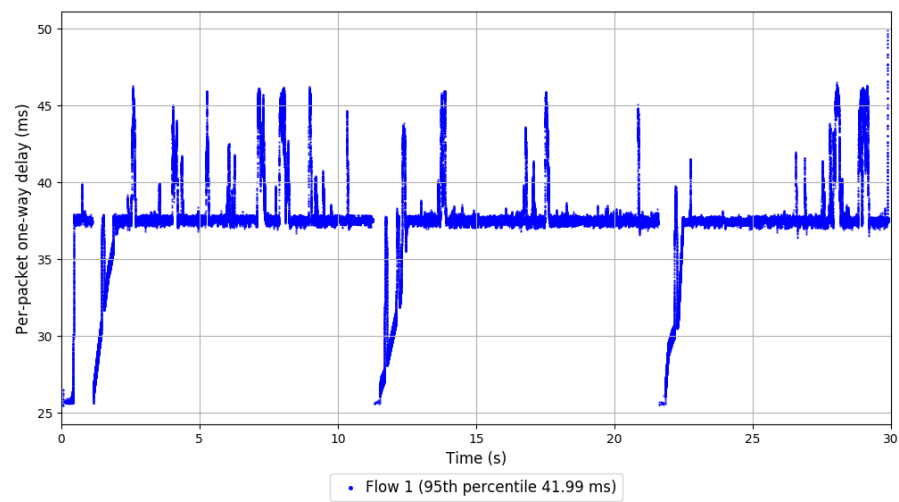| scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	94.66	38.13	0.30
TCP Cubic	10	74.75	34.73	0.27
LEDBAT	10	55.71	32.14	0.30
PCC	10	91.02	29.85	0.24
QUIC Cubic	10	75.43	35.31	0.30
SCReAM	10	0.22	24.99	0.15
WebRTC media	10	2.44	24.98	0.27
Sprout	10	15.85	28.04	0.21
TaoVA-100x	10	69.16	34.24	0.26
TCP Vegas	10	62.76	33.44	0.24
Verus	10	90.06	37.98	0.28
Copa	10	90.54	29.51	0.28
FillP	10	96.58	35.94	0.31
Indigo	10	95.78	29.13	0.26

```
Run 1: Statistics of TCP BBR

Start at: 2017-12-19 19:27:11
End at: 2017-12-19 19:27:41
Local clock offset: -13.402 ms
Remote clock offset: -0.758 ms

# Below is generated by plot.py at 2017-12-20 02:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 42.507 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 42.507 ms
Loss rate: 0.44%
```
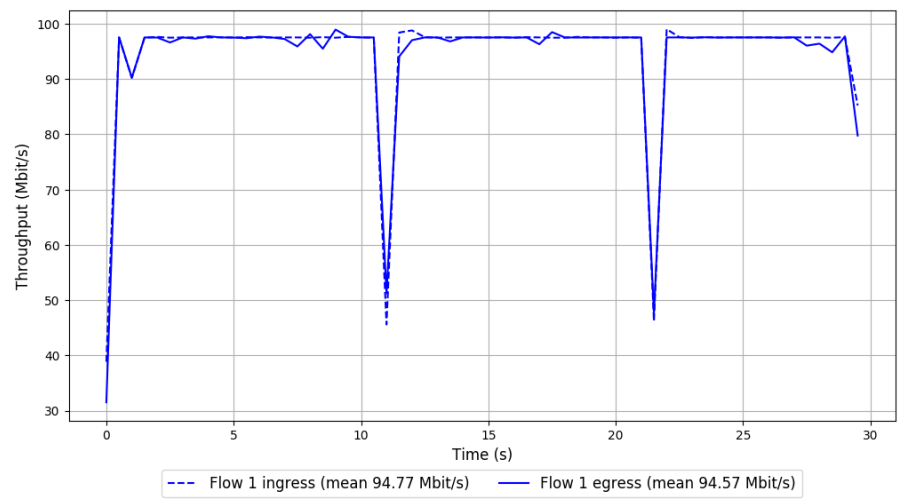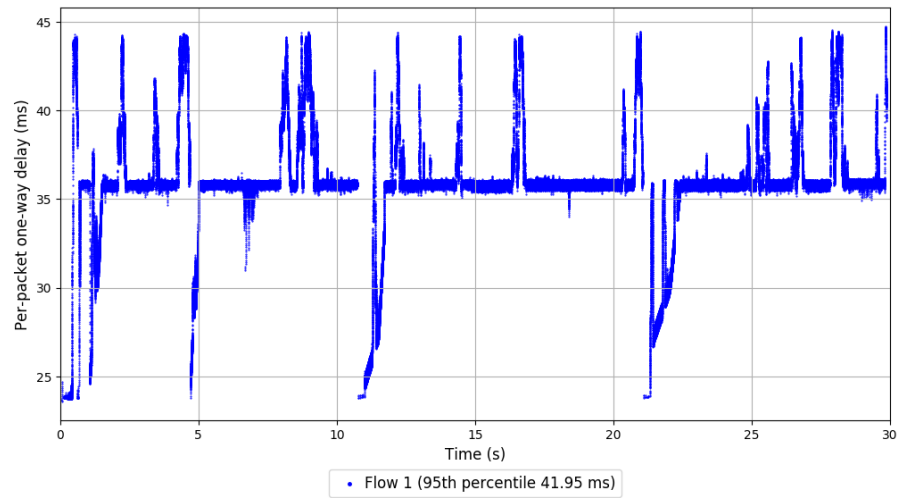
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2017-12-19 19:47:15
End at: 2017-12-19 19:47:45
Local clock offset: -3.844 ms
Remote clock offset: -3.375 ms


# Below is generated by plot.py at 2017-12-20 02:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 41.987 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 41.987 ms
Loss rate: 0.39%
```

Run 2: Report of TCP BBR — Data Link

Flow 1 ingress (mean 94.77 Mbit/s)   —— Flow 1 egress (mean 94.57 Mbit/s)
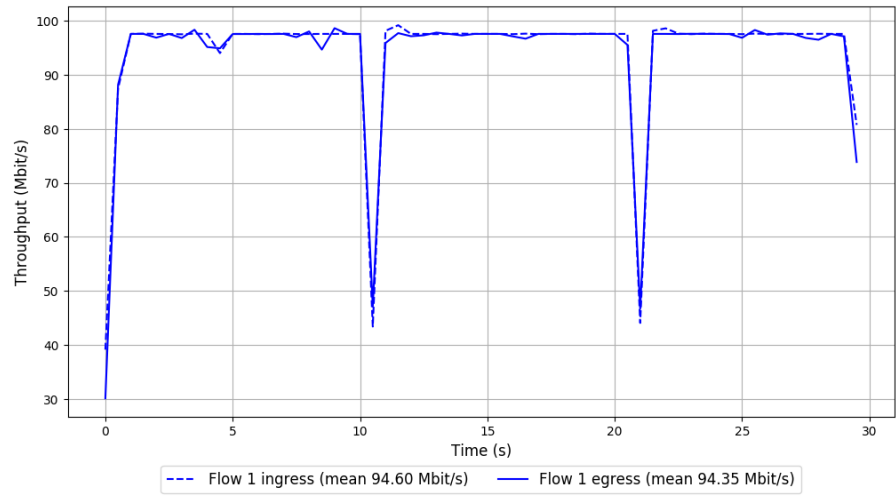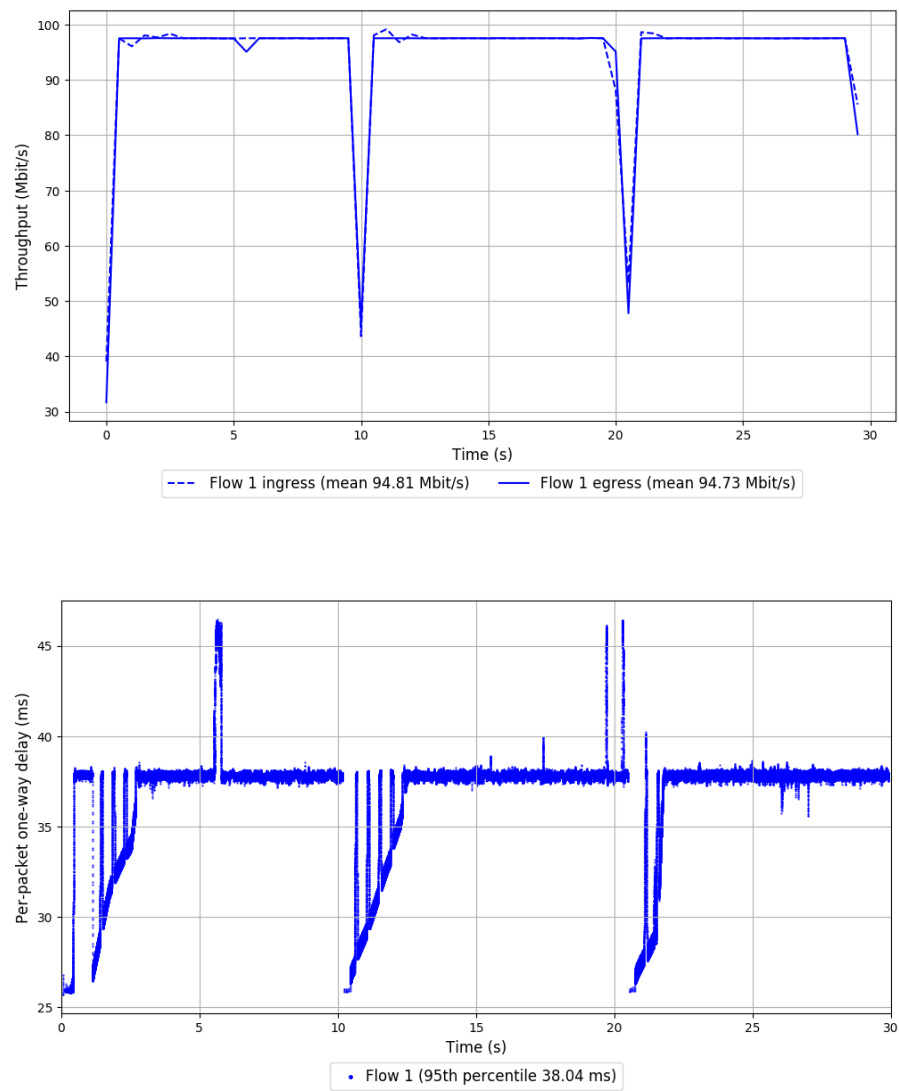

• Flow 1 (95th percentile 41.99 ms)

```
Run 3: Statistics of TCP BBR

Start at: 2017-12-19 20:07:13
End at: 2017-12-19 20:07:43
Local clock offset: -2.853 ms
Remote clock offset: -0.779 ms


# Below is generated by plot.py at 2017-12-20 02:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.35 Mbit/s
95th percentile per-packet one-way delay: 41.946 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 94.35 Mbit/s
95th percentile per-packet one-way delay: 41.946 ms
Loss rate: 0.44%
```

Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 94.60 Mbit/s)   Flow 1 egress (mean 94.35 Mbit/s)
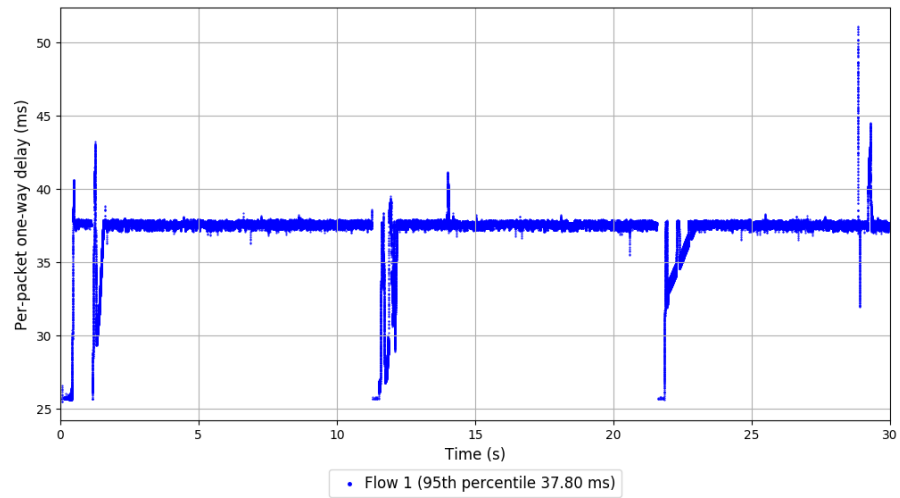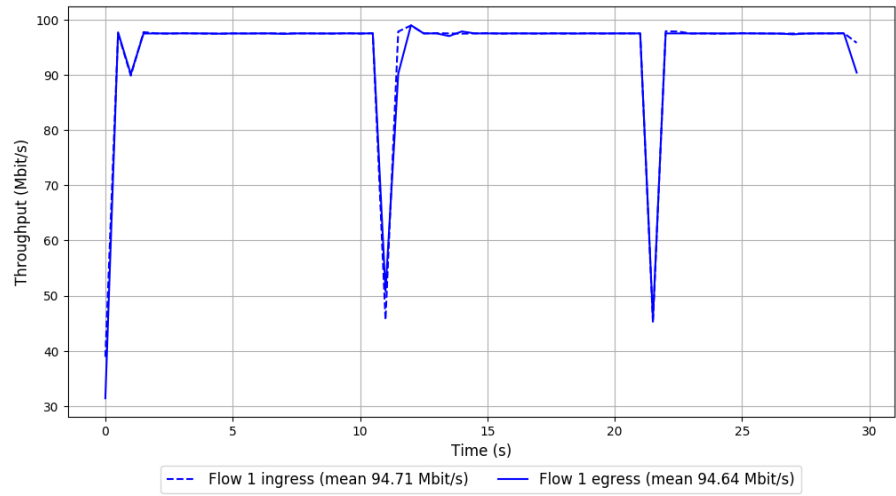

Flow 1 (95th percentile 41.95 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2017-12-19 20:27:21
End at: 2017-12-19 20:27:52
Local clock offset: -3.288 ms
Remote clock offset: -2.556 ms

# Below is generated by plot.py at 2017-12-20 02:03:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.73 Mbit/s
95th percentile per-packet one-way delay: 38.042 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 94.73 Mbit/s
95th percentile per-packet one-way delay: 38.042 ms
Loss rate: 0.27%
```

Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2017-12-19 20:47:22
End at: 2017-12-19 20:47:52
Local clock offset: -2.642 ms
Remote clock offset: -3.216 ms


# Below is generated by plot.py at 2017-12-20 02:03:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.64 Mbit/s
95th percentile per-packet one-way delay: 37.798 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 94.64 Mbit/s
95th percentile per-packet one-way delay: 37.798 ms
Loss rate: 0.27%
```
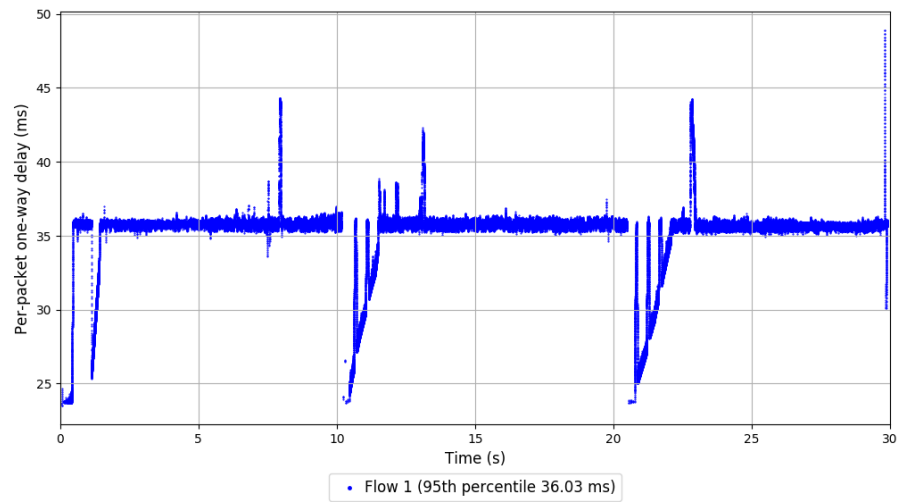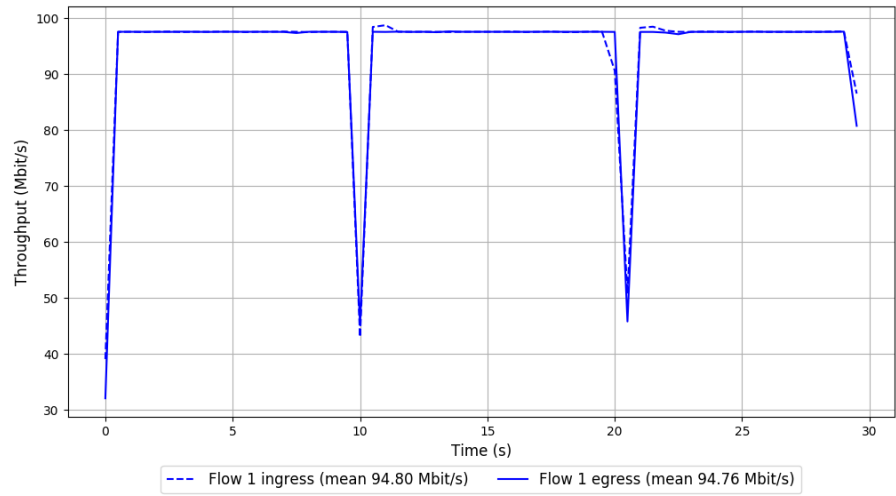
Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 94.71 Mbit/s)   Flow 1 egress (mean 94.64 Mbit/s)

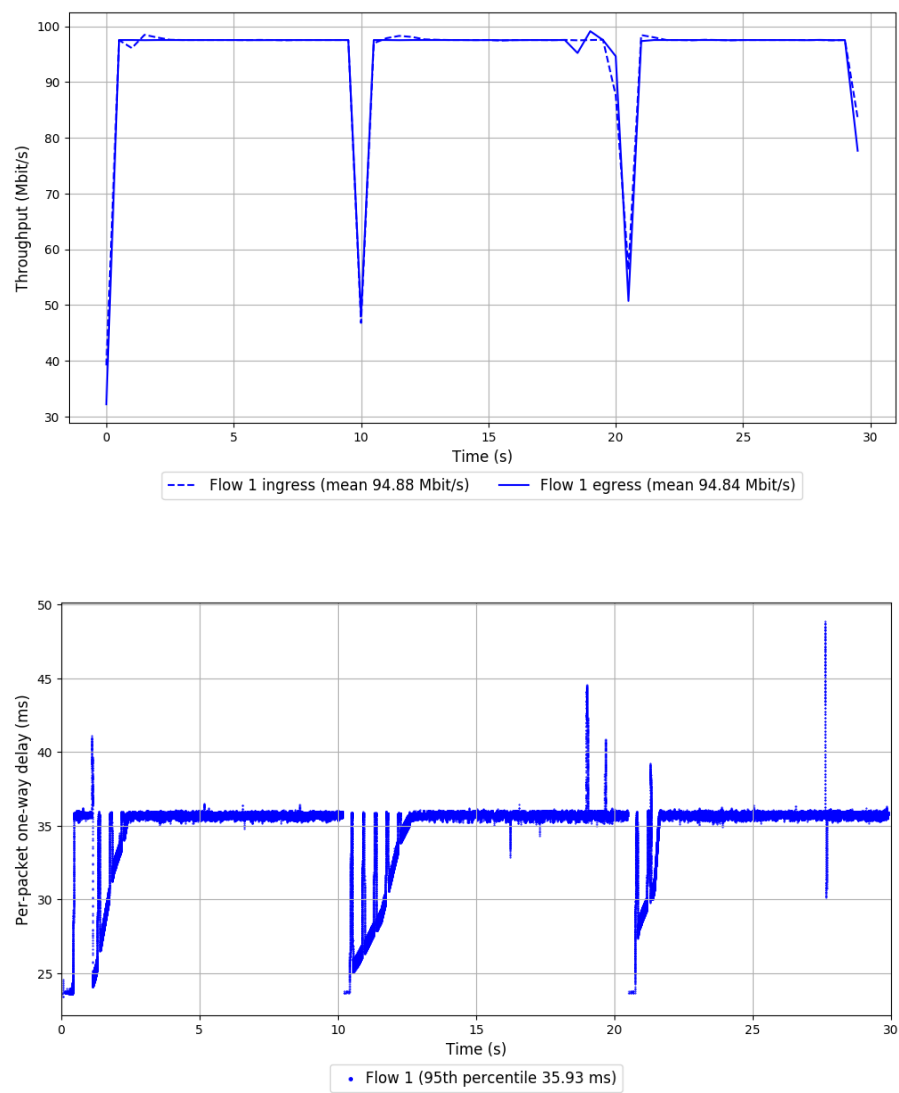• Flow 1 (95th percentile 37.80 ms)

```
Run 6: Statistics of TCP BBR

Start at: 2017-12-19 21:07:26
End at: 2017-12-19 21:07:56
Local clock offset: -2.165 ms
Remote clock offset: -1.84 ms


# Below is generated by plot.py at 2017-12-20 02:03:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.76 Mbit/s
95th percentile per-packet one-way delay: 36.034 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 94.76 Mbit/s
95th percentile per-packet one-way delay: 36.034 ms
Loss rate: 0.24%
```

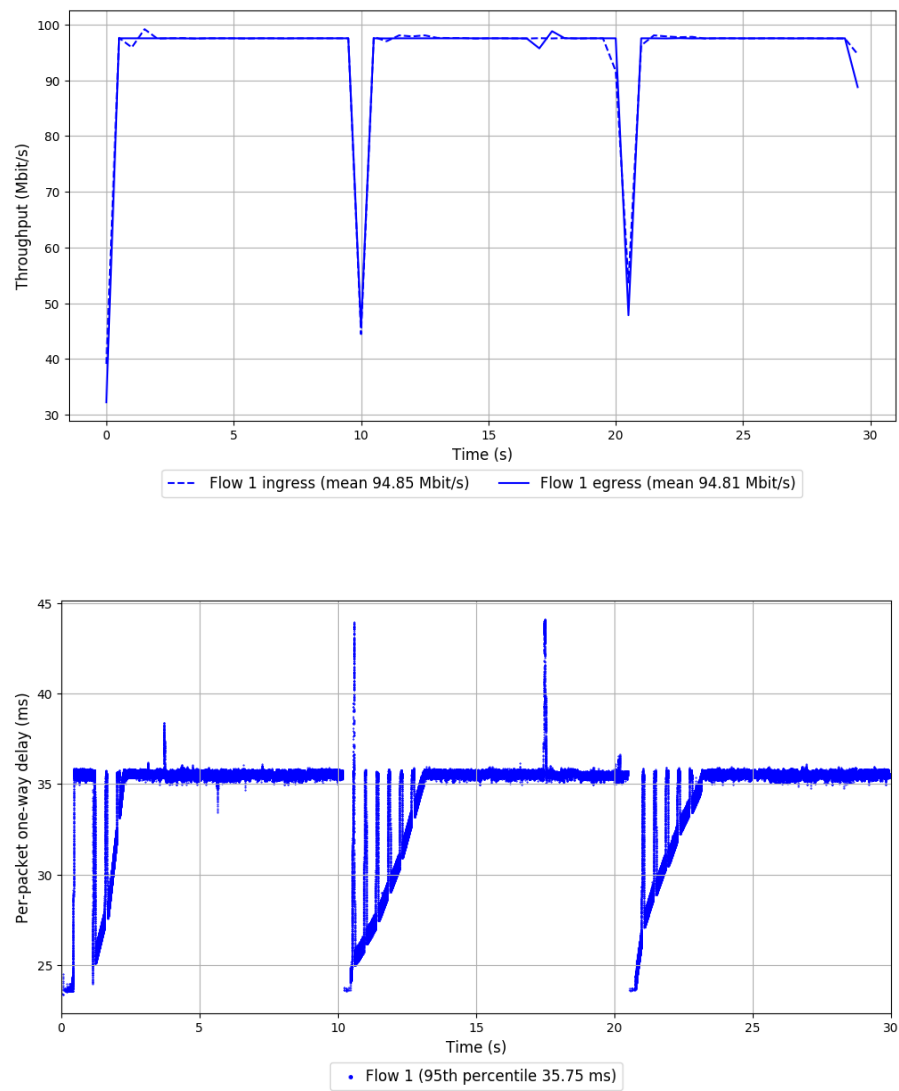Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 94.80 Mbit/s)   Flow 1 egress (mean 94.76 Mbit/s)

• Flow 1 (95th percentile 36.03 ms)

```
Run 7: Statistics of TCP BBR

Start at: 2017-12-19 21:27:36
End at: 2017-12-19 21:28:06
Local clock offset: -3.167 ms
Remote clock offset: -1.788 ms


# Below is generated by plot.py at 2017-12-20 02:03:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.84 Mbit/s
95th percentile per-packet one-way delay: 35.927 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 94.84 Mbit/s
95th percentile per-packet one-way delay: 35.927 ms
Loss rate: 0.24%
```
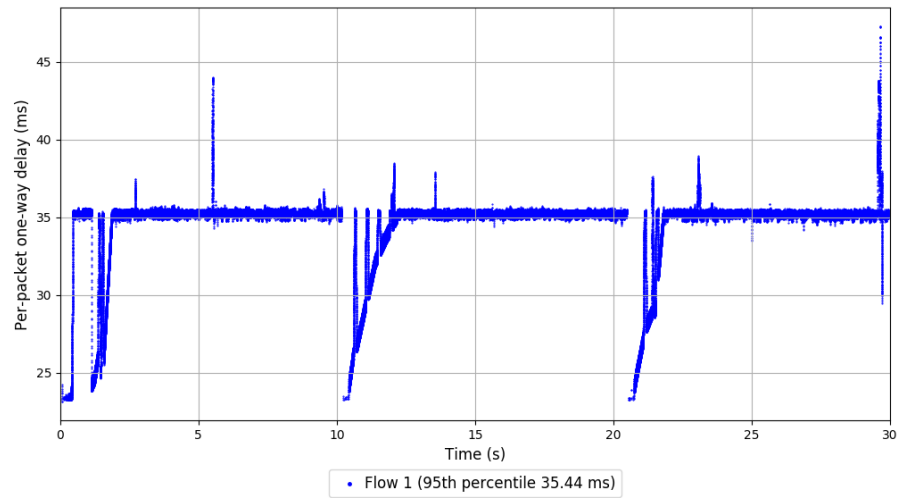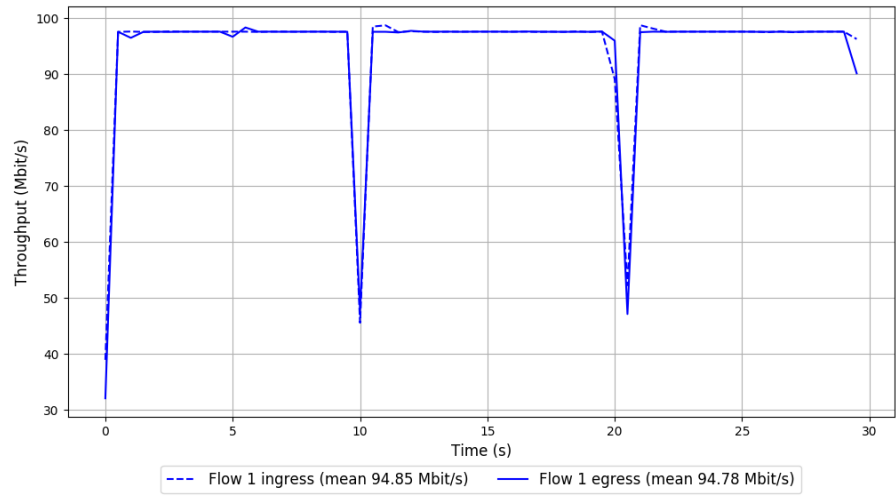
Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 94.88 Mbit/s)   Flow 1 egress (mean 94.84 Mbit/s)

• Flow 1 (95th percentile 35.93 ms)

```
Run 8: Statistics of TCP BBR

Start at: 2017-12-19 21:47:46
End at: 2017-12-19 21:48:16
Local clock offset: -3.511 ms
Remote clock offset: -1.606 ms


# Below is generated by plot.py at 2017-12-20 02:03:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.81 Mbit/s
95th percentile per-packet one-way delay: 35.750 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 94.81 Mbit/s
95th percentile per-packet one-way delay: 35.750 ms
Loss rate: 0.23%
```
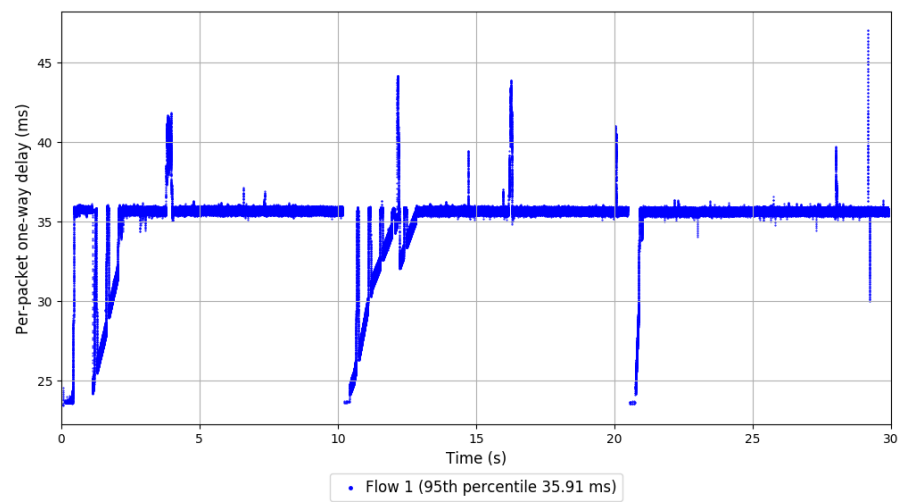
Run 8: Report of TCP BBR — Data Link

```
Run 9: Statistics of TCP BBR

Start at: 2017-12-19 22:07:41
End at: 2017-12-19 22:08:11
Local clock offset: -4.482 ms
Remote clock offset: -1.816 ms

# Below is generated by plot.py at 2017-12-20 02:05:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.78 Mbit/s
95th percentile per-packet one-way delay: 35.442 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 94.78 Mbit/s
95th percentile per-packet one-way delay: 35.442 ms
Loss rate: 0.25%
```
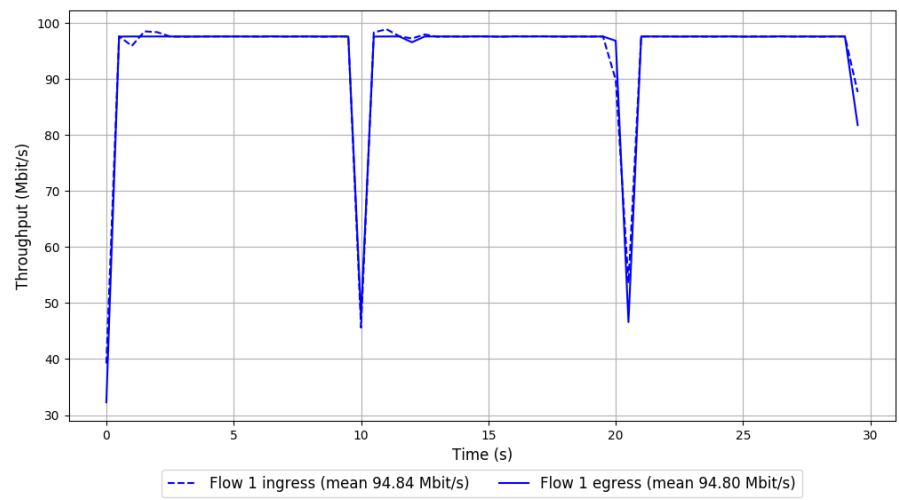
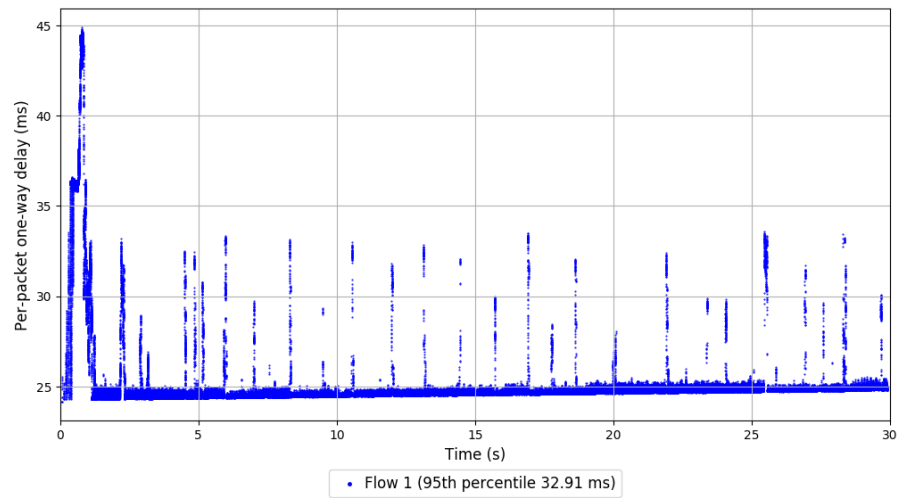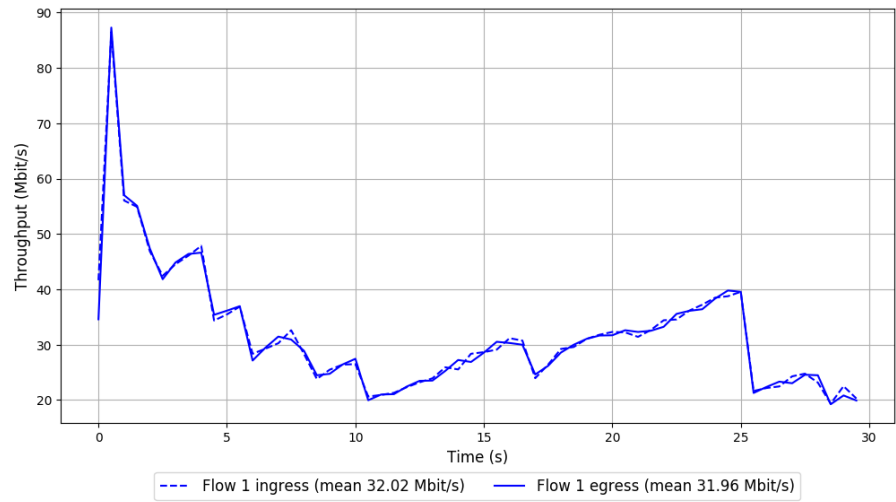Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 94.85 Mbit/s)   Flow 1 egress (mean 94.78 Mbit/s)

Flow 1 (95th percentile 35.44 ms)

```
Run 10: Statistics of TCP BBR

Start at: 2017-12-19 22:27:40
End at: 2017-12-19 22:28:10
Local clock offset: -2.069 ms
Remote clock offset: -3.15 ms

# Below is generated by plot.py at 2017-12-20 02:05:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.80 Mbit/s
95th percentile per-packet one-way delay: 35.909 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 94.80 Mbit/s
95th percentile per-packet one-way delay: 35.909 ms
Loss rate: 0.24%
```

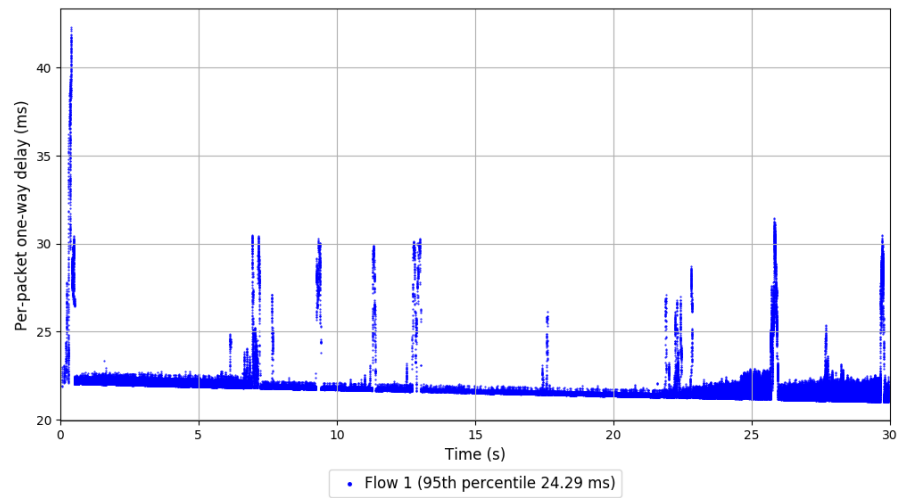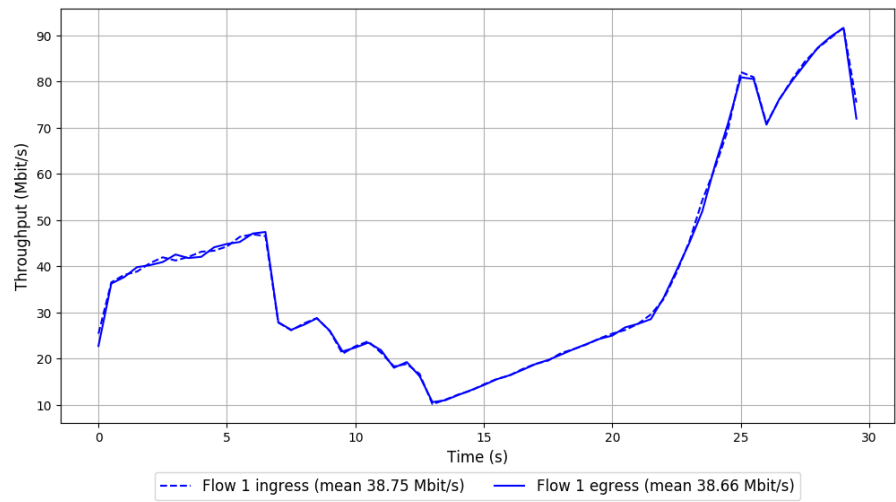Run 10: Report of TCP BBR — Data Link

```
Run 1: Statistics of TCP Cubic

Start at: 2017-12-19 19:20:22
End at: 2017-12-19 19:20:52
Local clock offset: -12.142 ms
Remote clock offset: -1.319 ms


# Below is generated by plot.py at 2017-12-20 02:05:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.96 Mbit/s
95th percentile per-packet one-way delay: 32.906 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 31.96 Mbit/s
95th percentile per-packet one-way delay: 32.906 ms
Loss rate: 0.35%
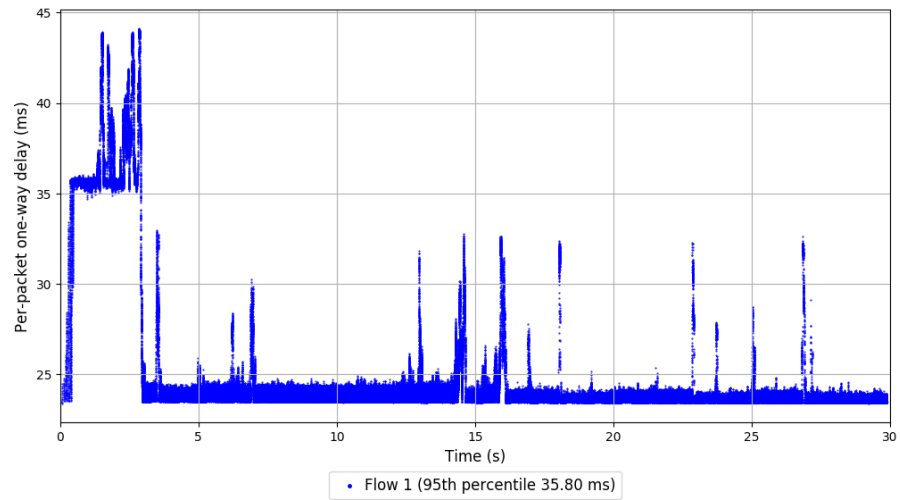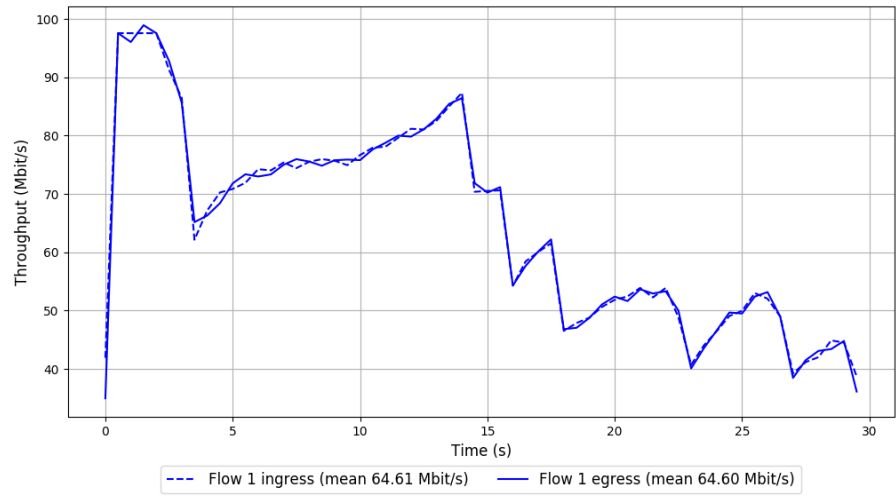```

Run 1: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 32.02 Mbit/s)    Flow 1 egress (mean 31.96 Mbit/s)



Flow 1 (95th percentile 32.91 ms)

```
Run 2: Statistics of TCP Cubic

Start at: 2017-12-19 19:40:34
End at: 2017-12-19 19:41:04
Local clock offset: -10.83 ms
Remote clock offset: -0.872 ms

Below is generated by plot.py at 2017-12-20 02:05:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.66 Mbit/s
95th percentile per-packet one-way delay: 24.285 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 38.66 Mbit/s
95th percentile per-packet one-way delay: 24.285 ms
Loss rate: 0.41%
```
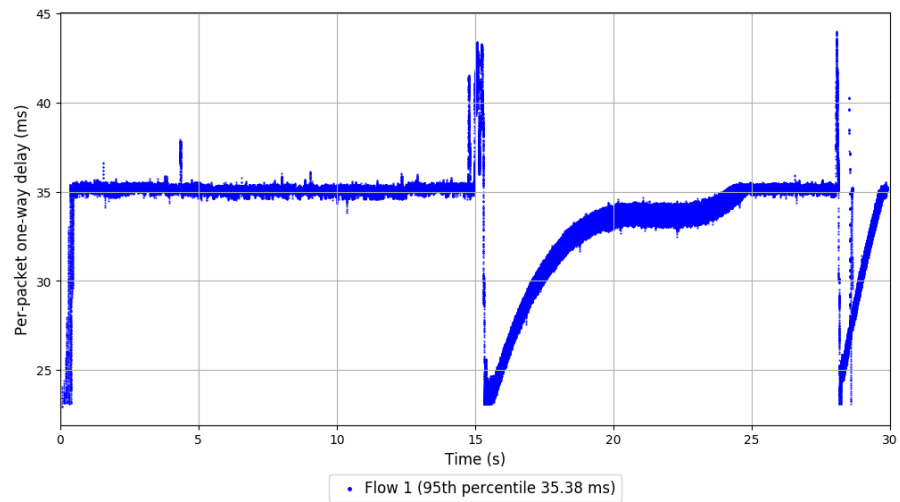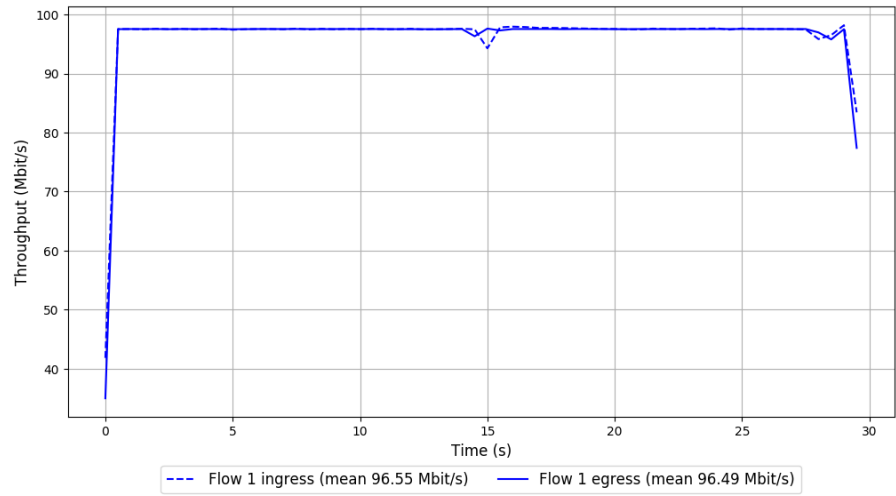
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2017-12-19 20:00:32
End at: 2017-12-19 20:01:02
Local clock offset: -3.39 ms
Remote clock offset: -0.851 ms

Below is generated by plot.py at 2017-12-20 02:05:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.60 Mbit/s
95th percentile per-packet one-way delay: 35.804 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 64.60 Mbit/s
95th percentile per-packet one-way delay: 35.804 ms
Loss rate: 0.18%
```
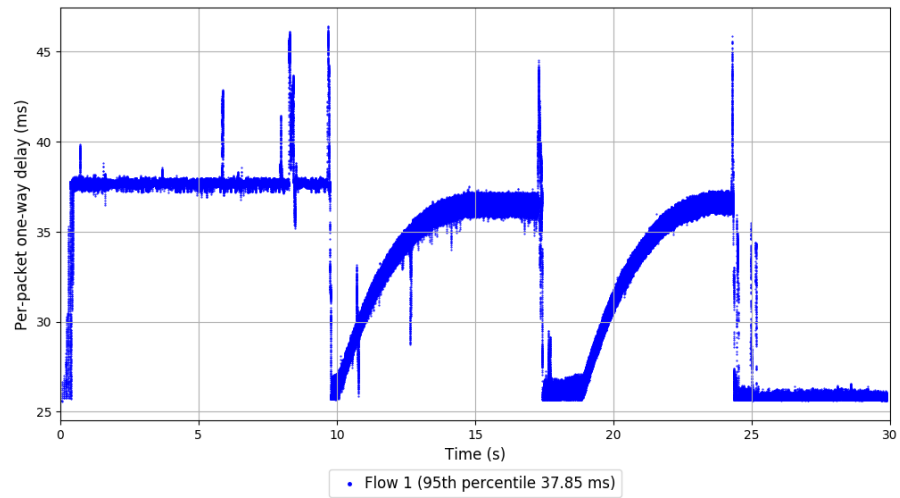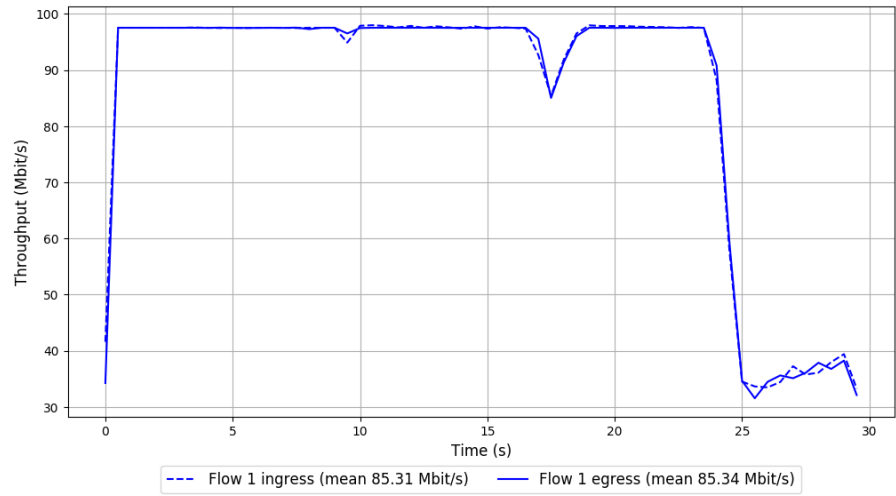
Run 3: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 64.61 Mbit/s) ----- Flow 1 egress (mean 64.60 Mbit/s)



Flow 1 (95th percentile 35.80 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2017-12-19 20:20:35
End at: 2017-12-19 20:21:05
Local clock offset: -3.314 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2017-12-20 02:05:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 35.384 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 35.384 ms
Loss rate: 0.23%
```
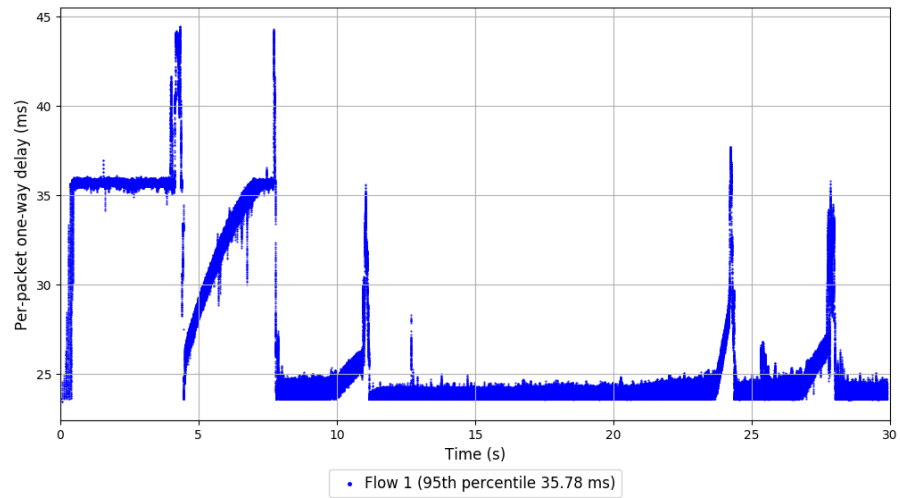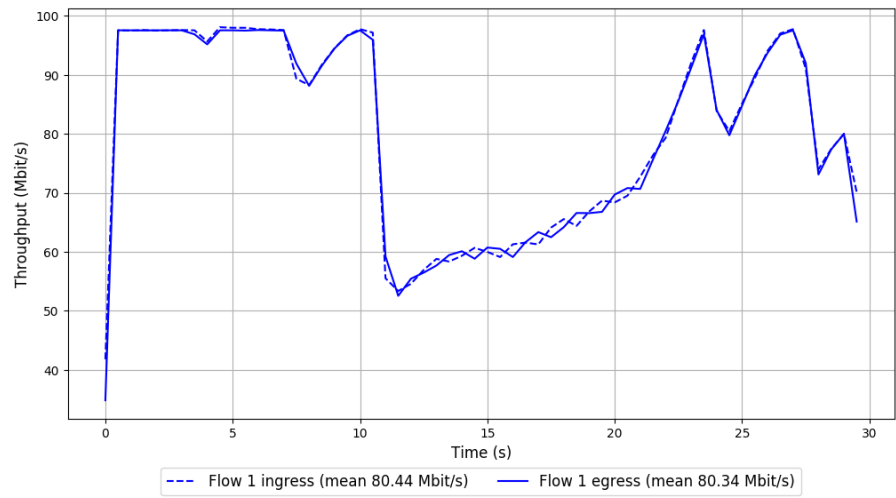
Run 4: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 96.55 Mbit/s)    —— Flow 1 egress (mean 96.49 Mbit/s)



• Flow 1 (95th percentile 35.38 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2017-12-19 20:40:41
End at: 2017-12-19 20:41:11
Local clock offset: -3.036 ms
Remote clock offset: -2.964 ms

Below is generated by plot.py at 2017-12-20 02:05:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.34 Mbit/s
95th percentile per-packet one-way delay: 37.849 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 85.34 Mbit/s
95th percentile per-packet one-way delay: 37.849 ms
Loss rate: 0.14%
```
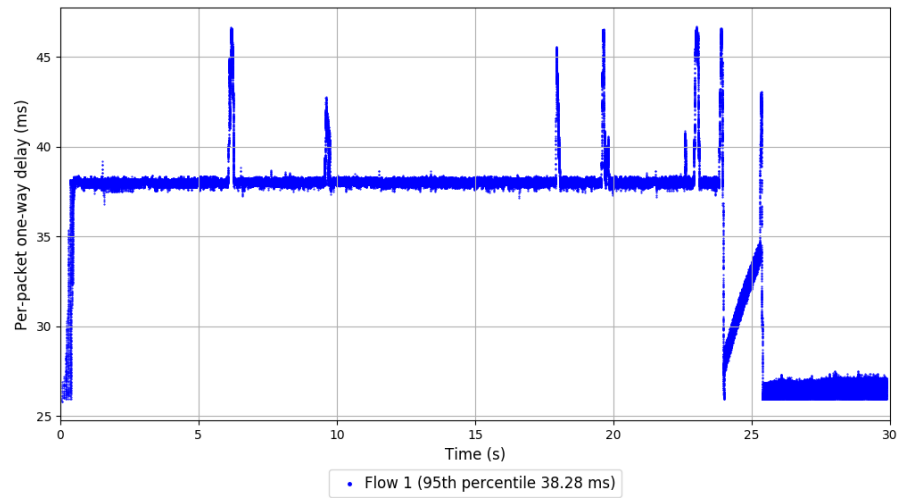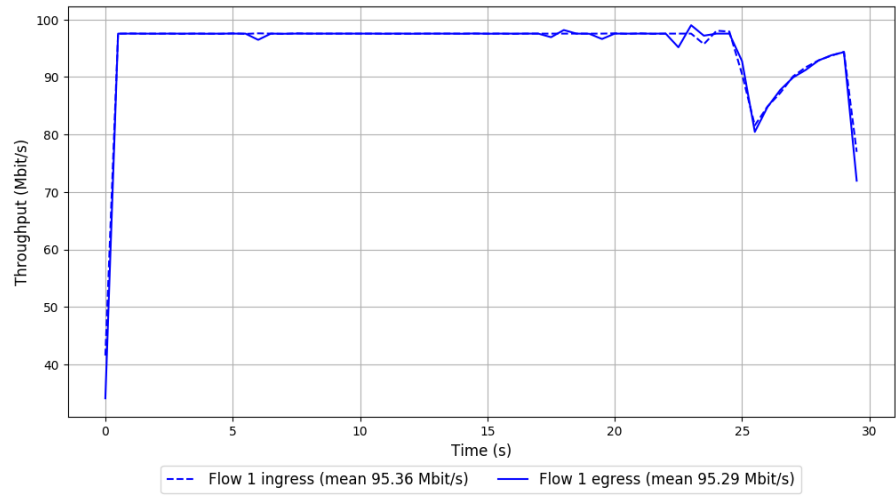
Run 5: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 85.31 Mbit/s)　　Flow 1 egress (mean 85.34 Mbit/s)
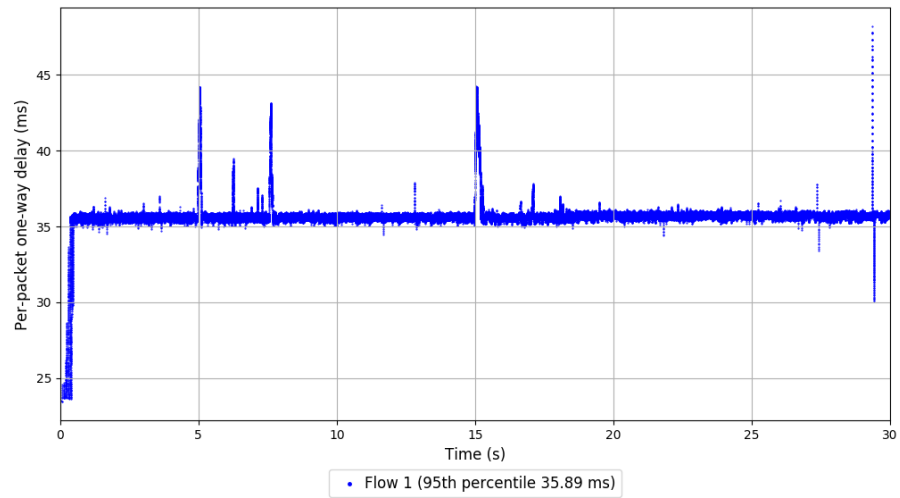


Flow 1 (95th percentile 37.85 ms)

```
Run 6: Statistics of TCP Cubic

Start at: 2017-12-19 21:00:39
End at: 2017-12-19 21:01:09
Local clock offset: -2.761 ms
Remote clock offset: -1.749 ms

Below is generated by plot.py at 2017-12-20 02:05:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.34 Mbit/s
95th percentile per-packet one-way delay: 35.783 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 80.34 Mbit/s
95th percentile per-packet one-way delay: 35.783 ms
Loss rate: 0.31%
```
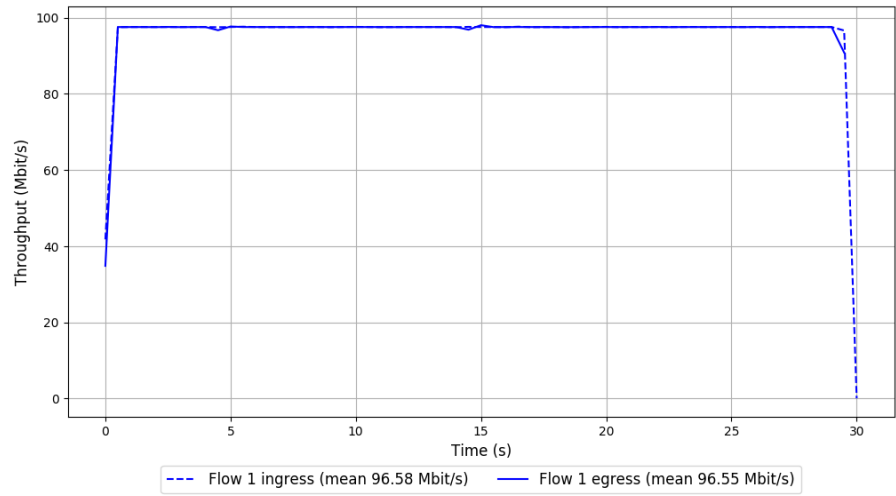
Run 6: Report of TCP Cubic — Data Link

```
Run 7: Statistics of TCP Cubic

Start at: 2017-12-19 21:20:54
End at: 2017-12-19 21:21:24
Local clock offset: -2.527 ms
Remote clock offset: -4.067 ms

Below is generated by plot.py at 2017-12-20 02:05:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 38.277 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 38.277 ms
Loss rate: 0.24%
```
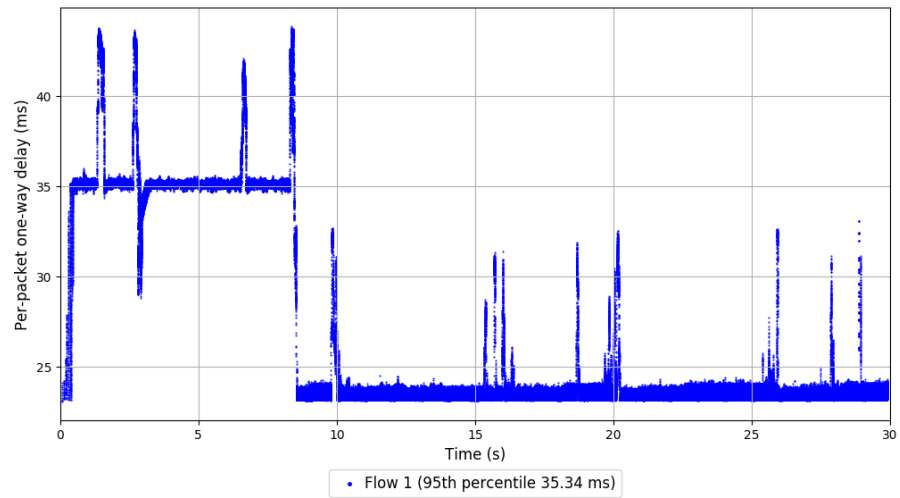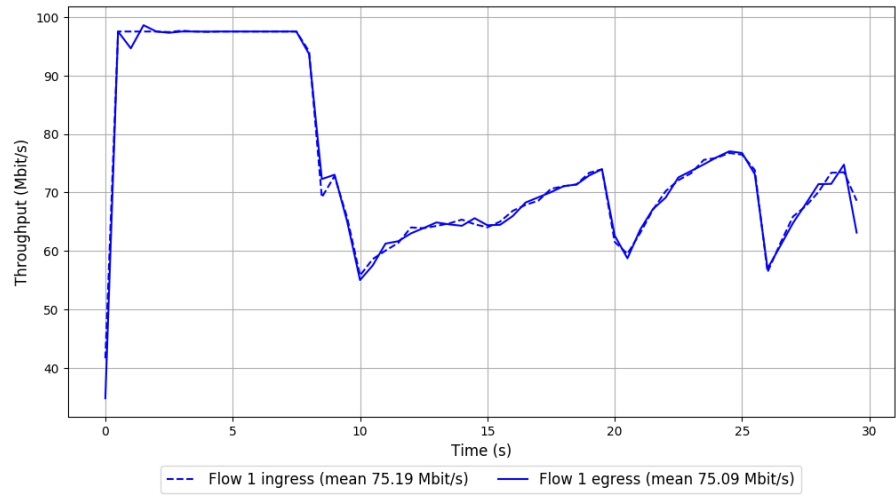
Run 7: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 95.36 Mbit/s) — — — Flow 1 egress (mean 95.29 Mbit/s)



• Flow 1 (95th percentile 38.28 ms)

```
Run 8: Statistics of TCP Cubic

Start at: 2017-12-19 21:40:58
End at: 2017-12-19 21:41:28
Local clock offset: -3.328 ms
Remote clock offset: -1.576 ms


# Below is generated by plot.py at 2017-12-20 02:05:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 35.887 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 35.887 ms
Loss rate: 0.24%
```

Run 8: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 96.58 Mbit/s) —— Flow 1 egress (mean 96.55 Mbit/s)

• Flow 1 (95th percentile 35.89 ms)

```
Run 9: Statistics of TCP Cubic

Start at: 2017-12-19 22:01:02
End at: 2017-12-19 22:01:32
Local clock offset: -4.067 ms
Remote clock offset: -1.523 ms


# Below is generated by plot.py at 2017-12-20 02:05:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.09 Mbit/s
95th percentile per-packet one-way delay: 35.340 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 75.09 Mbit/s
95th percentile per-packet one-way delay: 35.340 ms
Loss rate: 0.31%
```
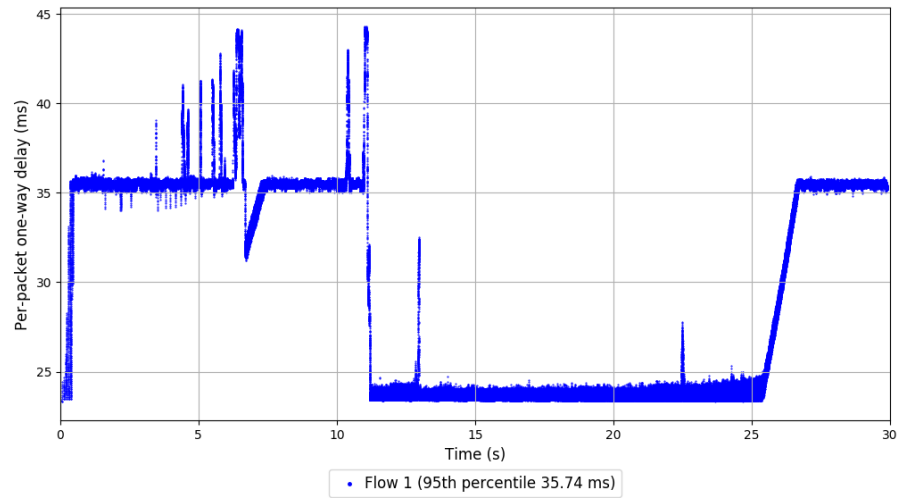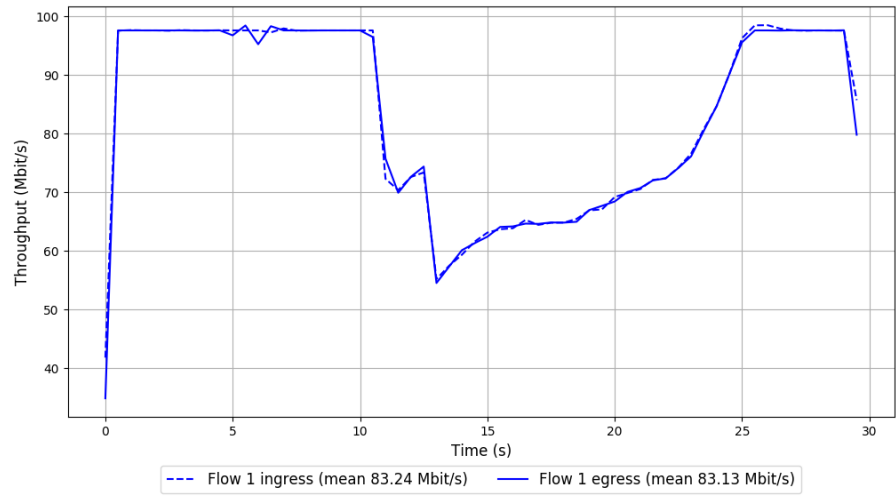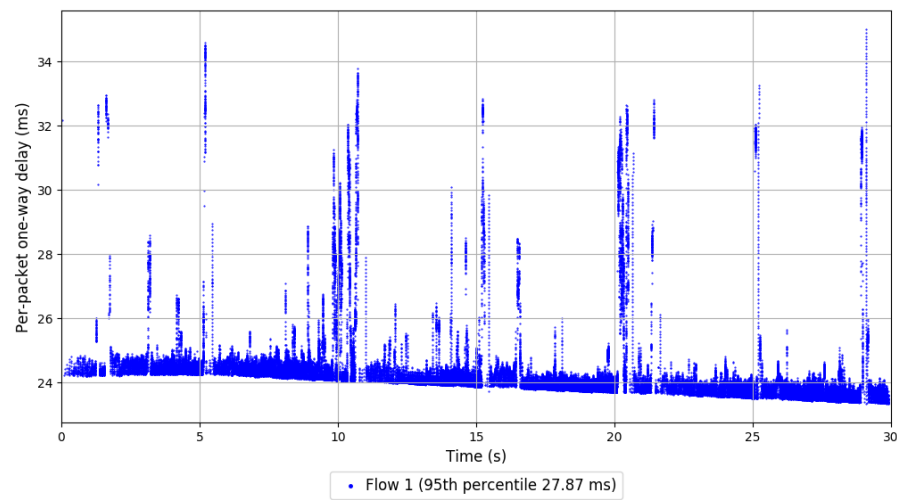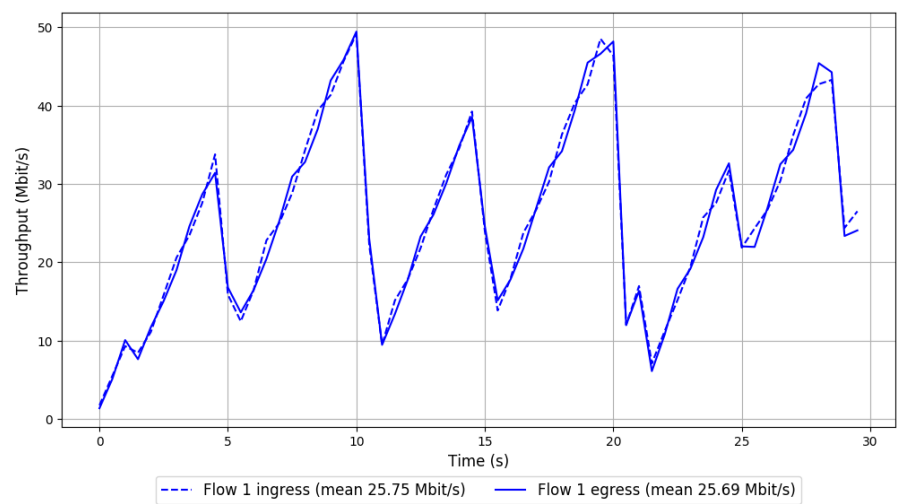
Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 75.19 Mbit/s) — Flow 1 egress (mean 75.09 Mbit/s)

• Flow 1 (95th percentile 35.34 ms)

```
Run 10: Statistics of TCP Cubic

Start at: 2017-12-19 22:20:54
End at: 2017-12-19 22:21:24
Local clock offset: -2.838 ms
Remote clock offset: -2.838 ms


# Below is generated by plot.py at 2017-12-20 02:06:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.13 Mbit/s
95th percentile per-packet one-way delay: 35.736 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 83.13 Mbit/s
95th percentile per-packet one-way delay: 35.736 ms
Loss rate: 0.32%
```
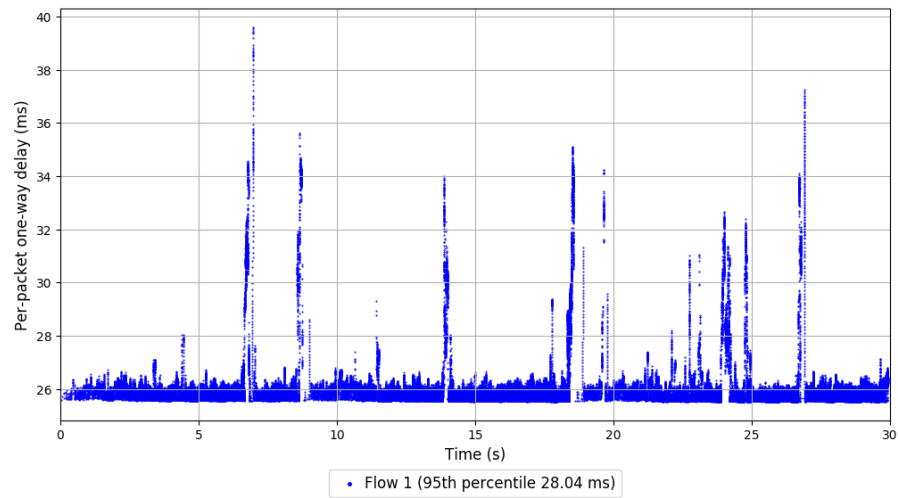
Run 10: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 83.24 Mbit/s) ---- Flow 1 egress (mean 83.13 Mbit/s) ——

• Flow 1 (95th percentile 35.74 ms)

```
Run 1: Statistics of LEDBAT

Start at: 2017-12-19 19:29:58
End at: 2017-12-19 19:30:28
Local clock offset: -15.896 ms
Remote clock offset: -1.141 ms

# Below is generated by plot.py at 2017-12-20 02:06:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.69 Mbit/s
95th percentile per-packet one-way delay: 27.874 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 25.69 Mbit/s
95th percentile per-packet one-way delay: 27.874 ms
Loss rate: 0.43%
```
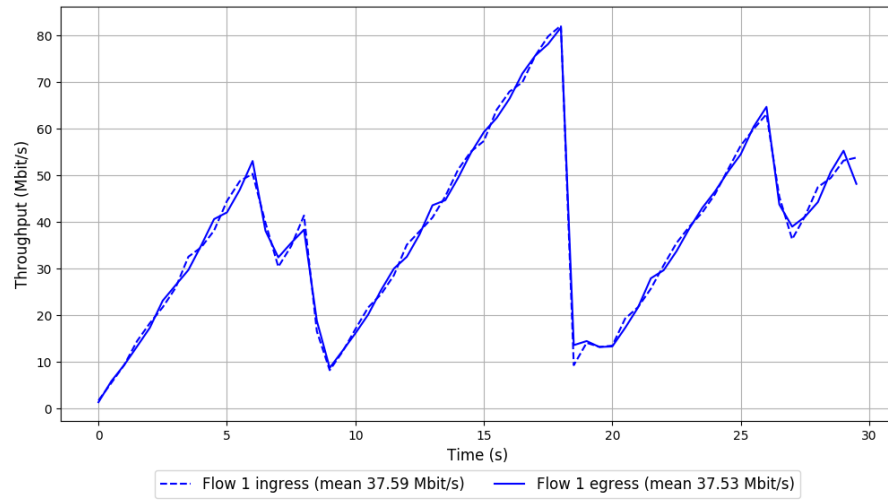
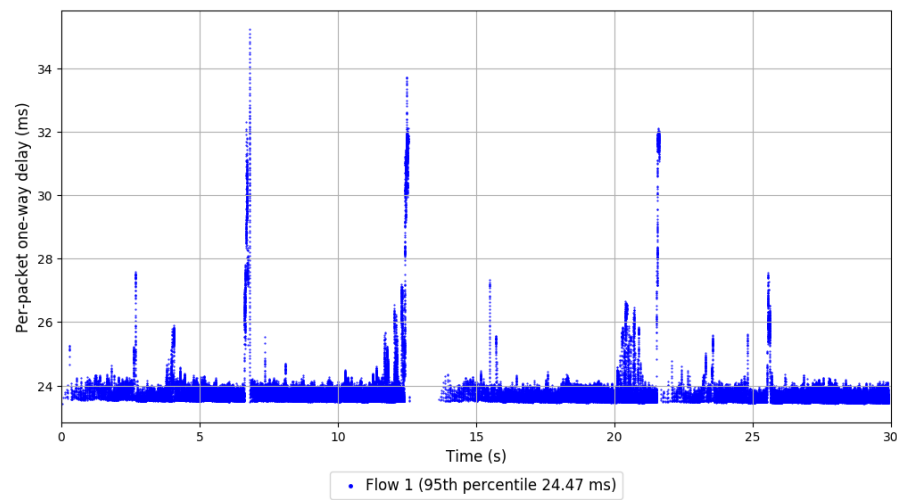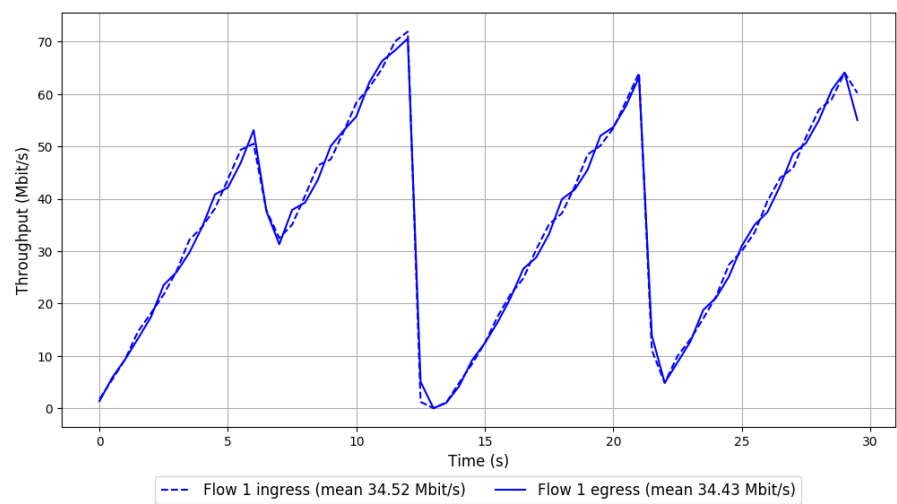# Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 25.75 Mbit/s) —— Flow 1 egress (mean 25.69 Mbit/s)

Flow 1 (95th percentile 27.87 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2017-12-19 19:49:59
End at: 2017-12-19 19:50:29
Local clock offset: -3.141 ms
Remote clock offset: -3.36 ms


# Below is generated by plot.py at 2017-12-20 02:06:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 28.043 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 28.043 ms
Loss rate: 0.35%
```

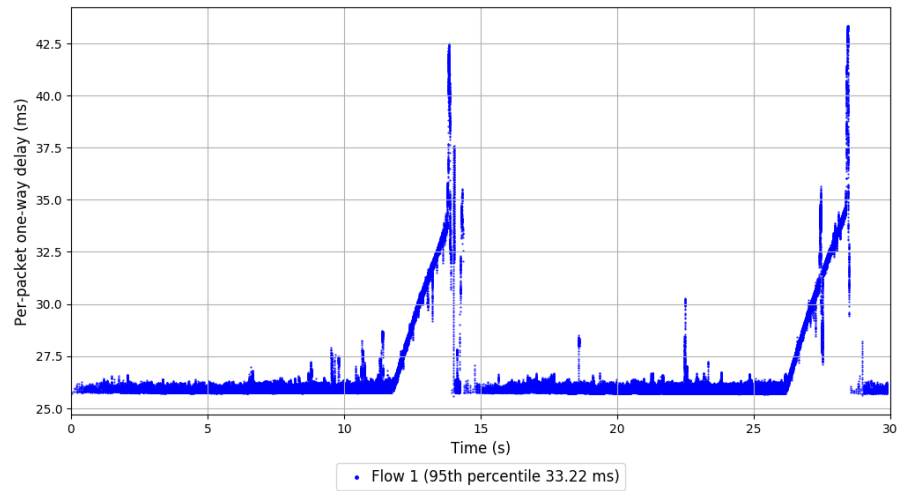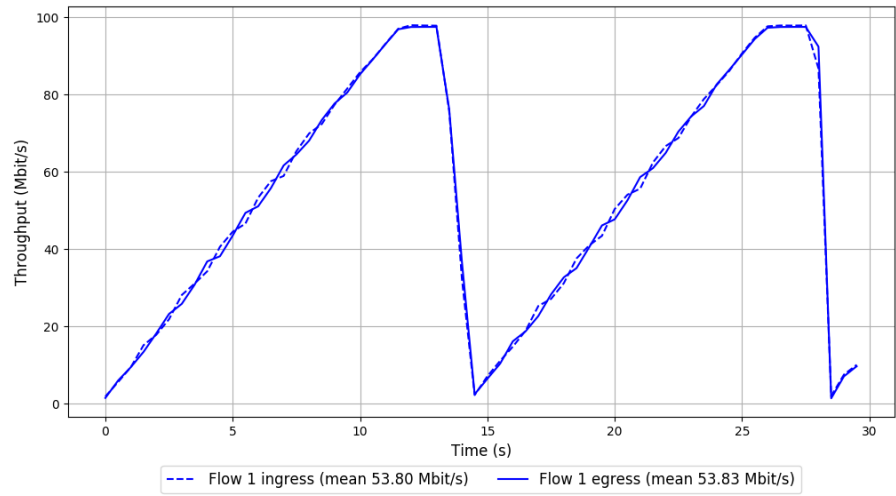Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2017-12-19 20:09:57
End at: 2017-12-19 20:10:27
Local clock offset: -2.824 ms
Remote clock offset: -0.726 ms


# Below is generated by plot.py at 2017-12-20 02:06:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.43 Mbit/s
95th percentile per-packet one-way delay: 24.470 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 34.43 Mbit/s
95th percentile per-packet one-way delay: 24.470 ms
Loss rate: 0.46%
```
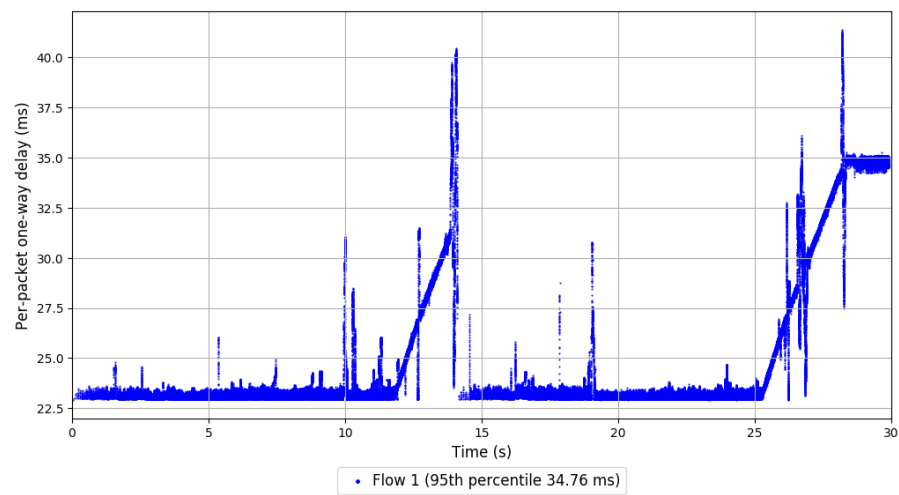
Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 34.52 Mbit/s) — — — Flow 1 egress (mean 34.43 Mbit/s)

• Flow 1 (95th percentile 24.47 ms)

```
Run 4: Statistics of LEDBAT

Start at: 2017-12-19 20:30:05
End at: 2017-12-19 20:30:35
Local clock offset: -3.582 ms
Remote clock offset: -2.504 ms


# Below is generated by plot.py at 2017-12-20 02:06:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.83 Mbit/s
95th percentile per-packet one-way delay: 33.222 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 53.83 Mbit/s
95th percentile per-packet one-way delay: 33.222 ms
Loss rate: 0.11%
```
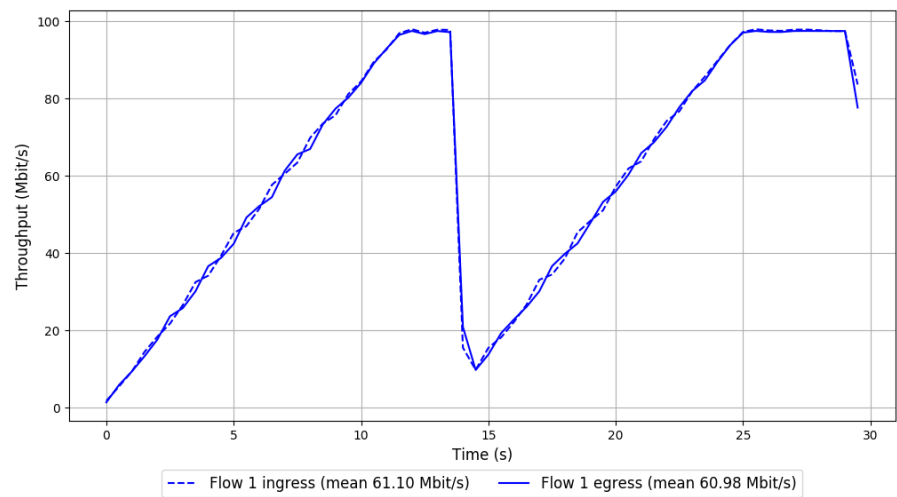
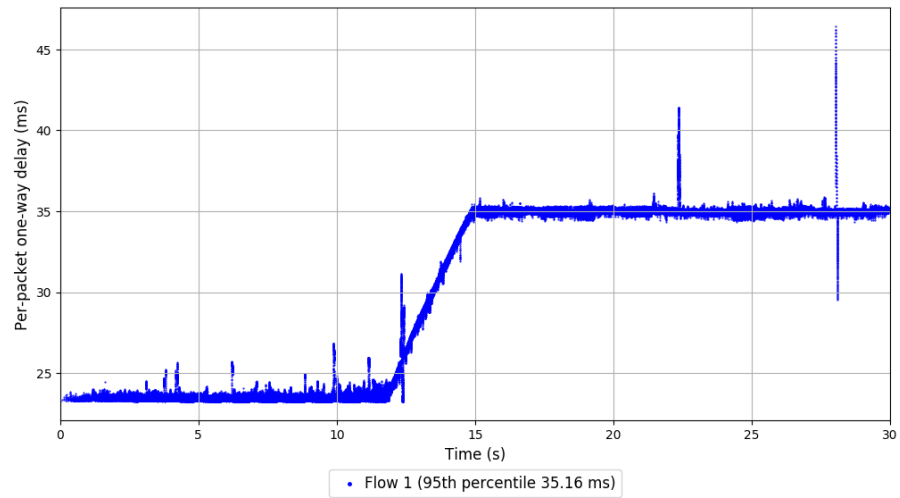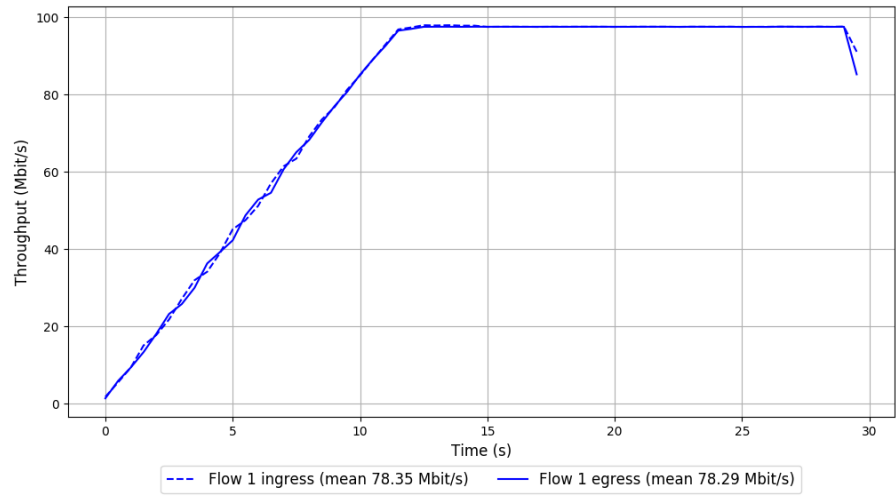Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: 2017-12-19 20:50:05
End at: 2017-12-19 20:50:35
Local clock offset: -2.727 ms
Remote clock offset: -0.71 ms


# Below is generated by plot.py at 2017-12-20 02:06:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.98 Mbit/s
95th percentile per-packet one-way delay: 34.759 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 60.98 Mbit/s
95th percentile per-packet one-way delay: 34.759 ms
Loss rate: 0.38%
```

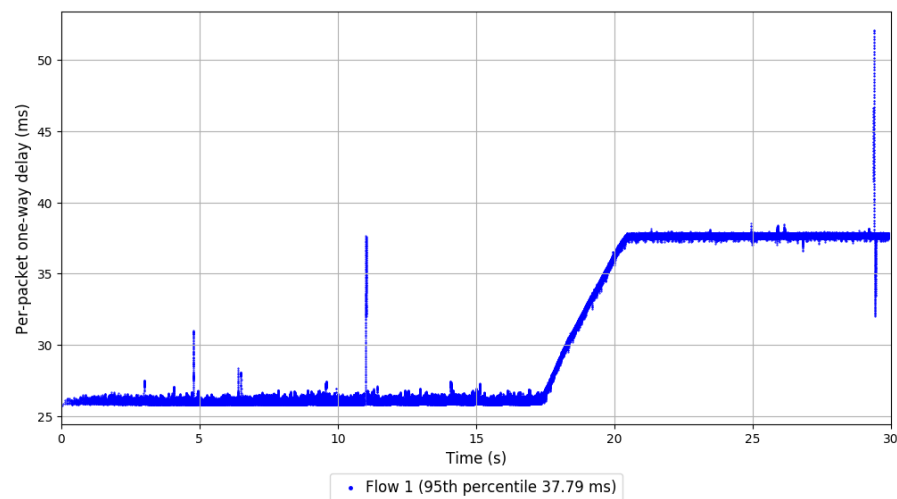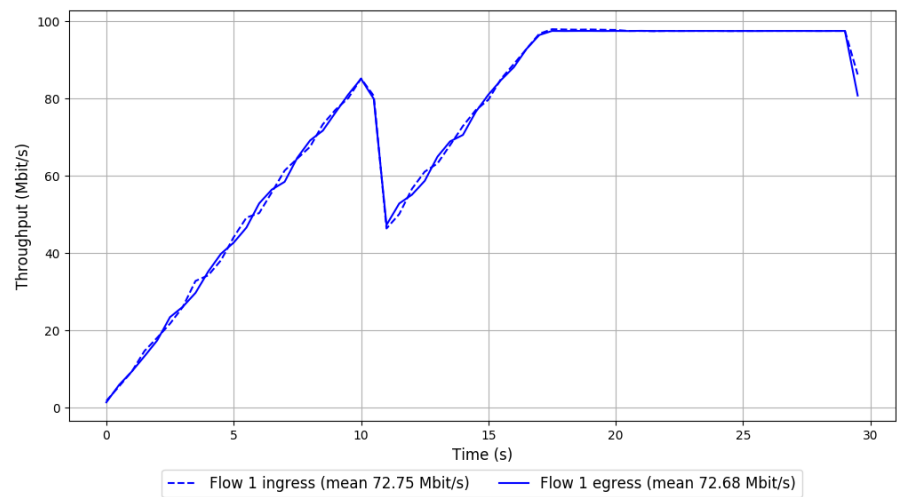Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 61.10 Mbit/s) --- Flow 1 egress (mean 60.98 Mbit/s)
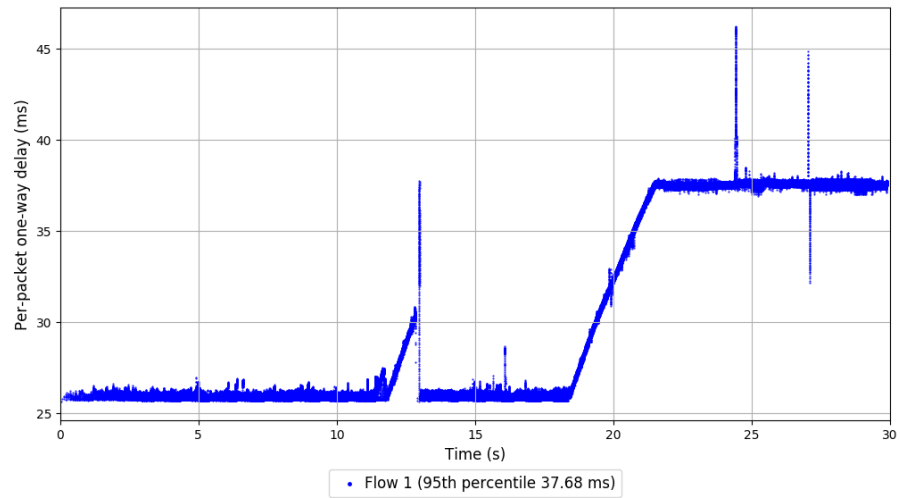

Flow 1 (95th percentile 34.76 ms)

```
Run 6: Statistics of LEDBAT

Start at: 2017-12-19 21:10:11
End at: 2017-12-19 21:10:41
Local clock offset: -2.098 ms
Remote clock offset: -1.439 ms


# Below is generated by plot.py at 2017-12-20 02:06:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.29 Mbit/s
95th percentile per-packet one-way delay: 35.165 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 78.29 Mbit/s
95th percentile per-packet one-way delay: 35.165 ms
Loss rate: 0.27%
```

Run 6: Report of LEDBAT — Data Link

Flow 1 ingress (mean 78.35 Mbit/s)   Flow 1 egress (mean 78.29 Mbit/s)

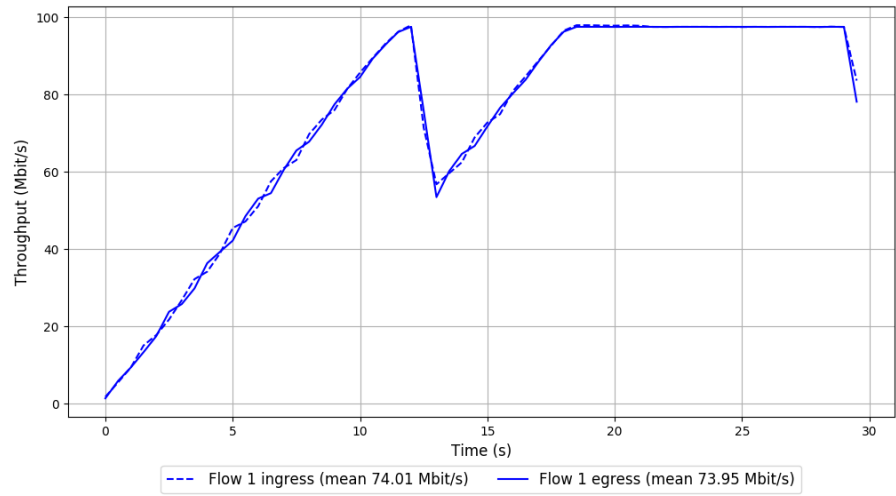• Flow 1 (95th percentile 35.16 ms)

```
Run 7: Statistics of LEDBAT

Start at: 2017-12-19 21:30:18
End at: 2017-12-19 21:30:48
Local clock offset: -3.361 ms
Remote clock offset: -3.878 ms


# Below is generated by plot.py at 2017-12-20 02:06:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.68 Mbit/s
95th percentile per-packet one-way delay: 37.793 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 72.68 Mbit/s
95th percentile per-packet one-way delay: 37.793 ms
Loss rate: 0.30%
```

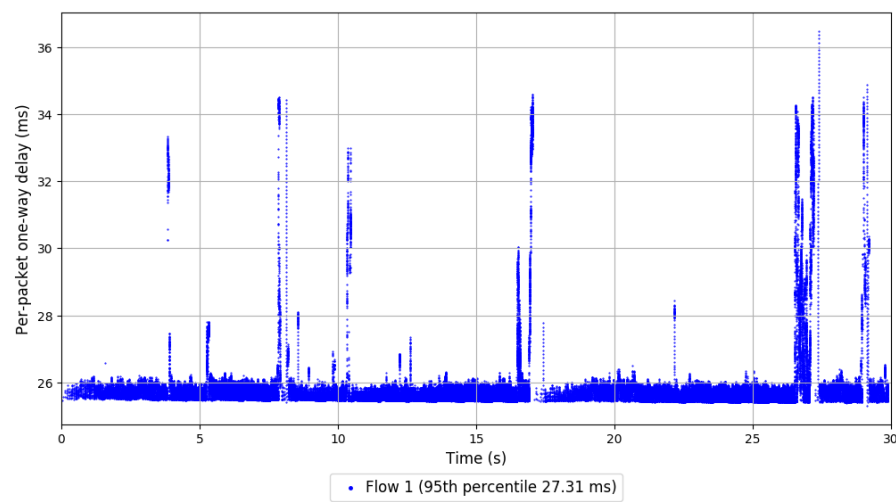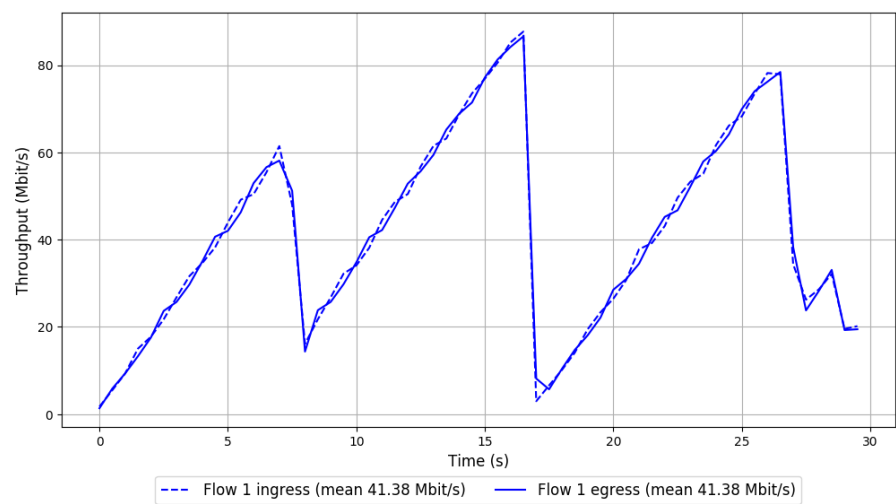Run 7: Report of LEDBAT — Data Link

Flow 1 ingress (mean 72.75 Mbit/s)   Flow 1 egress (mean 72.68 Mbit/s)

• Flow 1 (95th percentile 37.79 ms)

```
Run 8: Statistics of LEDBAT

Start at: 2017-12-19 21:50:29
End at: 2017-12-19 21:50:59
Local clock offset: -3.475 ms
Remote clock offset: -3.685 ms


# Below is generated by plot.py at 2017-12-20 02:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.95 Mbit/s
95th percentile per-packet one-way delay: 37.681 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 73.95 Mbit/s
95th percentile per-packet one-way delay: 37.681 ms
Loss rate: 0.29%
```

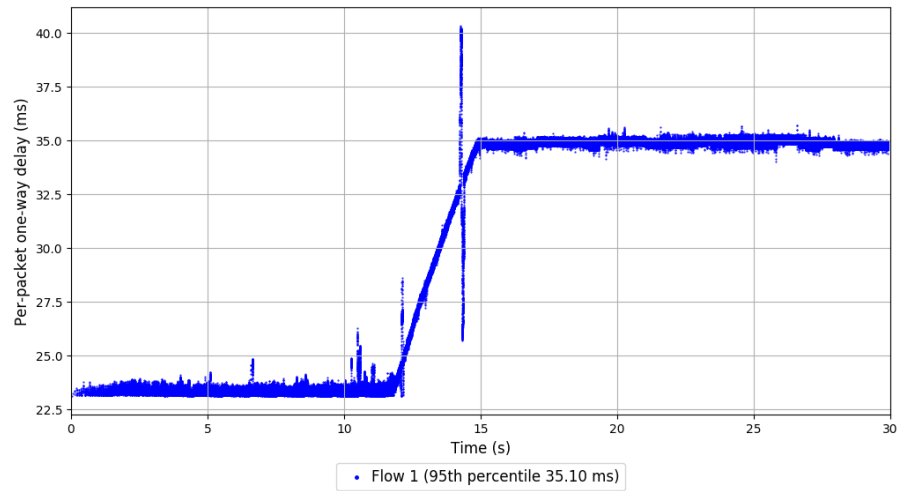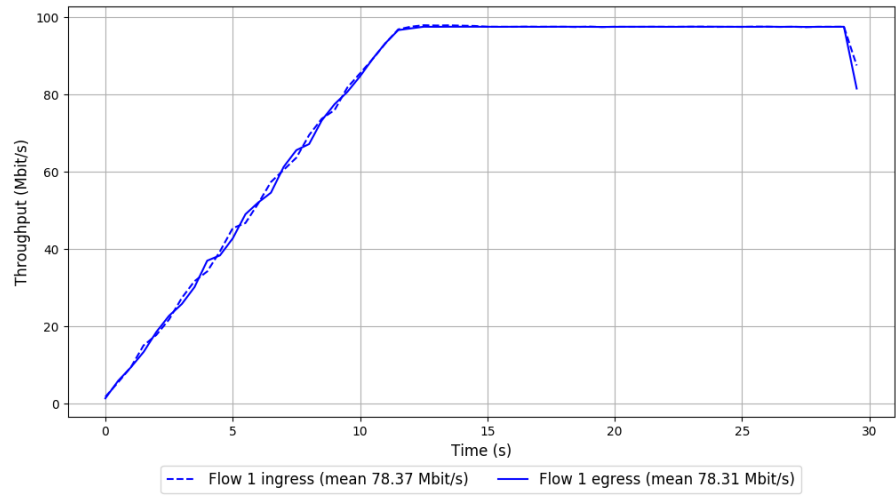Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 74.01 Mbit/s) —— Flow 1 egress (mean 73.95 Mbit/s)

• Flow 1 (95th percentile 37.68 ms)

```
Run 9: Statistics of LEDBAT

Start at: 2017-12-19 22:10:23
End at: 2017-12-19 22:10:53
Local clock offset: -4.222 ms
Remote clock offset: -4.312 ms


# Below is generated by plot.py at 2017-12-20 02:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.38 Mbit/s
95th percentile per-packet one-way delay: 27.309 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 41.38 Mbit/s
95th percentile per-packet one-way delay: 27.309 ms
Loss rate: 0.19%
```

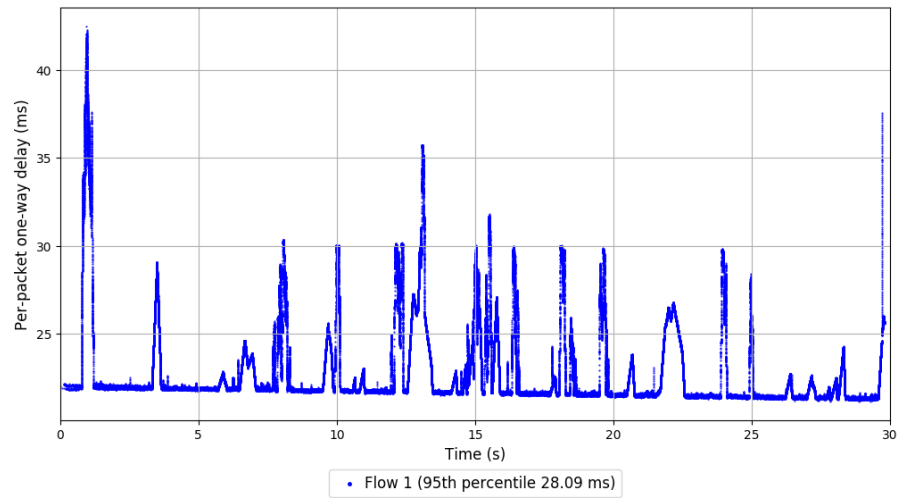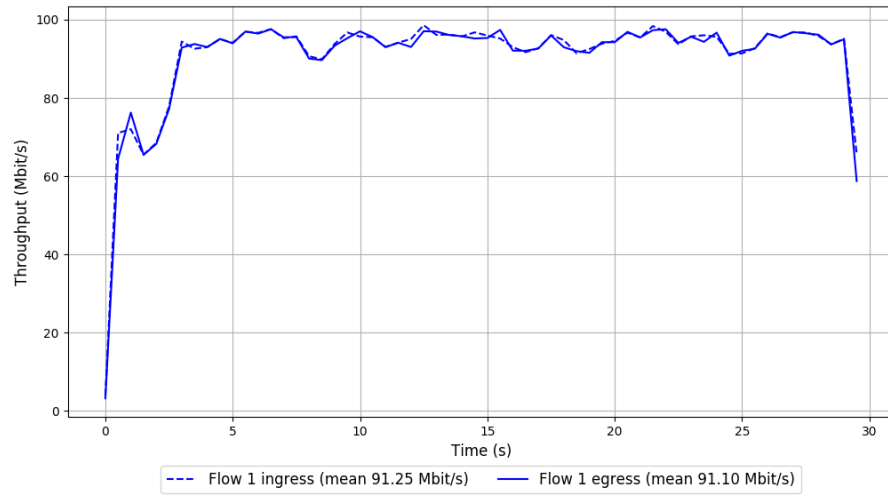Run 9: Report of LEDBAT — Data Link

```
Run 10: Statistics of LEDBAT

Start at: 2017-12-19 22:30:22
End at: 2017-12-19 22:30:52
Local clock offset: -2.011 ms
Remote clock offset: -2.906 ms

# Below is generated by plot.py at 2017-12-20 02:07:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.31 Mbit/s
95th percentile per-packet one-way delay: 35.104 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 78.31 Mbit/s
95th percentile per-packet one-way delay: 35.104 ms
Loss rate: 0.27%
```

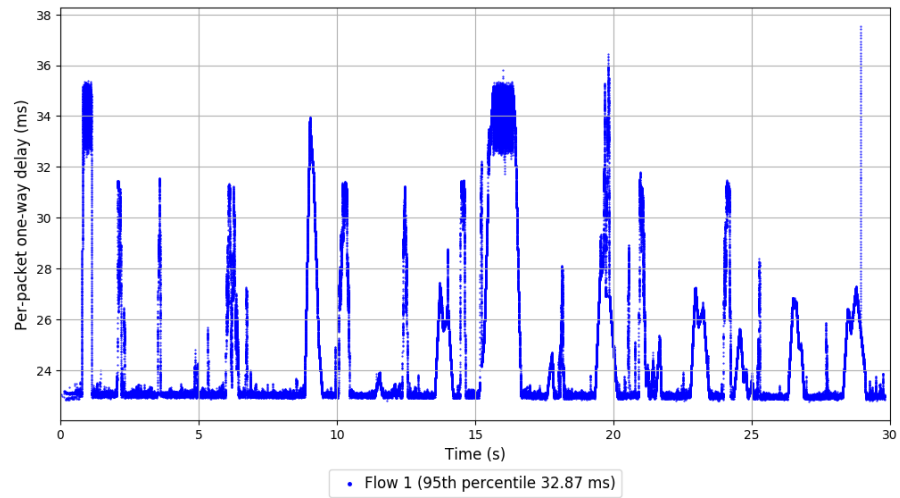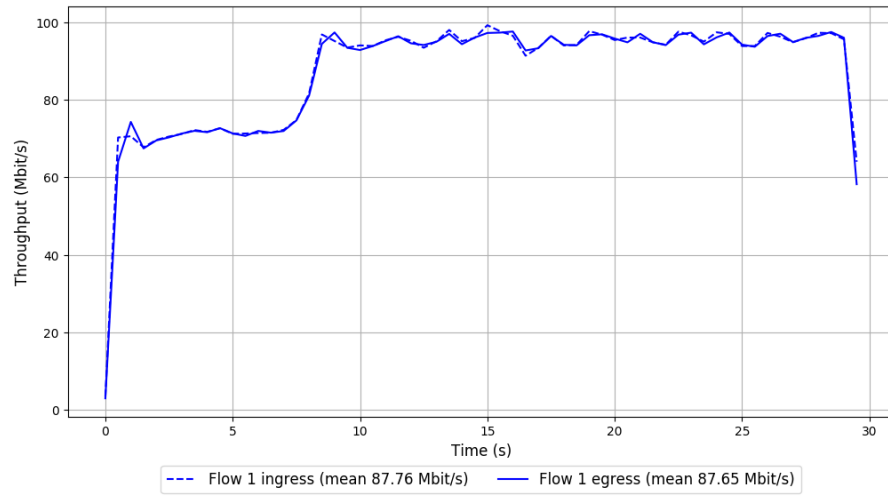Run 10: Report of LEDBAT — Data Link

```
Run 1: Statistics of PCC

Start at: 2017-12-19 19:31:16
End at: 2017-12-19 19:31:46
Local clock offset: -15.355 ms
Remote clock offset: -0.678 ms


# Below is generated by plot.py at 2017-12-20 02:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 28.091 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 28.091 ms
Loss rate: 0.35%
```
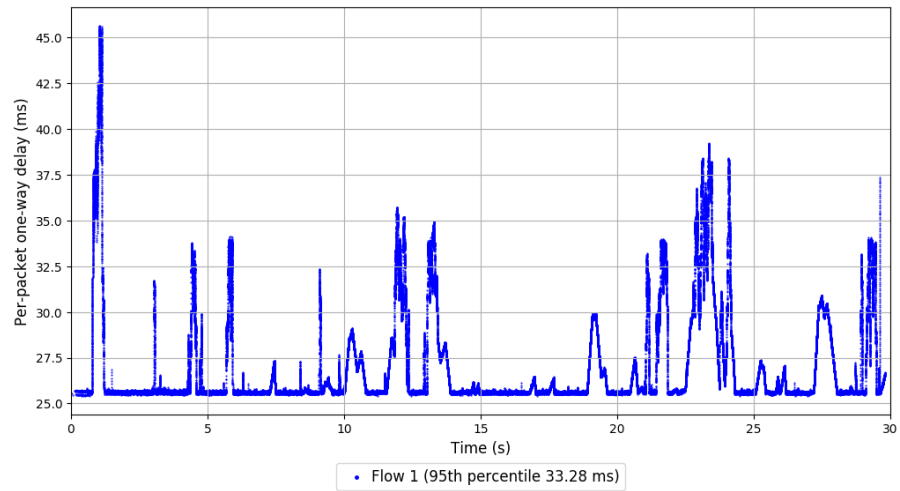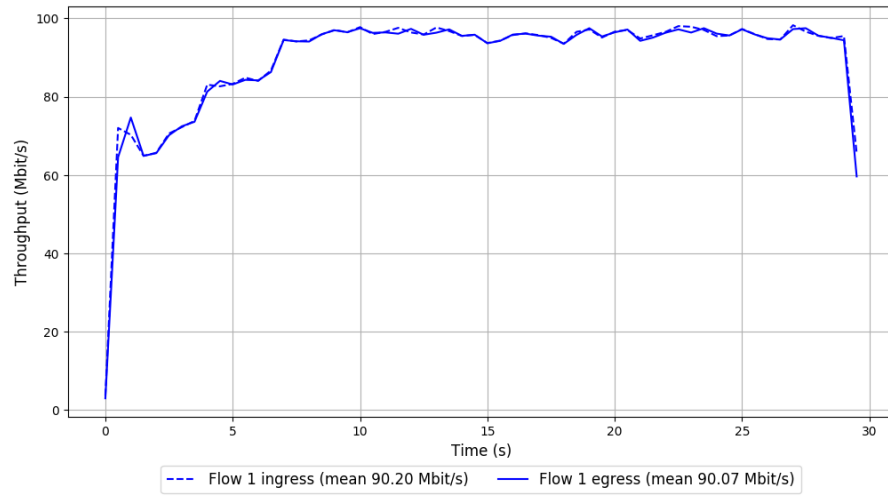
Run 1: Report of PCC — Data Link

Flow 1 ingress (mean 91.25 Mbit/s)   Flow 1 egress (mean 91.10 Mbit/s)

Flow 1 (95th percentile 28.09 ms)

```
Run 2: Statistics of PCC

Start at: 2017-12-19 19:51:17
End at: 2017-12-19 19:51:47
Local clock offset: -2.888 ms
Remote clock offset: -0.842 ms


# Below is generated by plot.py at 2017-12-20 02:07:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.65 Mbit/s
95th percentile per-packet one-way delay: 32.870 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 87.65 Mbit/s
95th percentile per-packet one-way delay: 32.870 ms
Loss rate: 0.31%
```
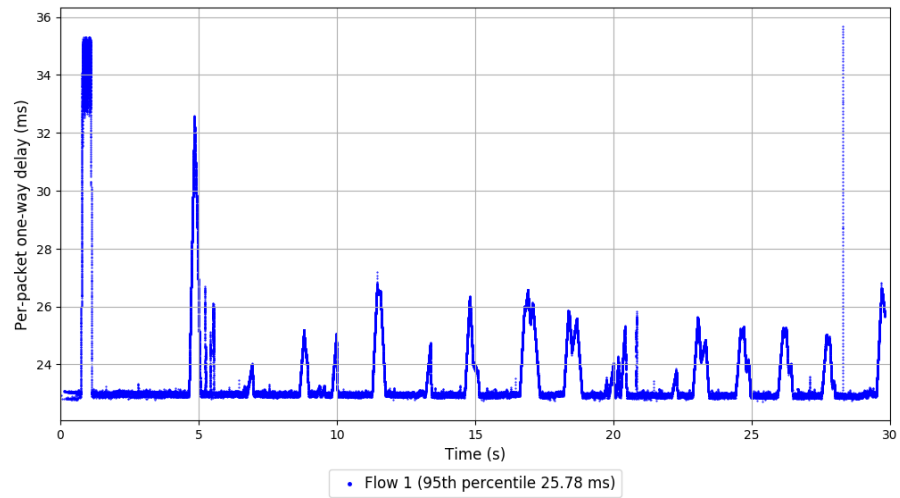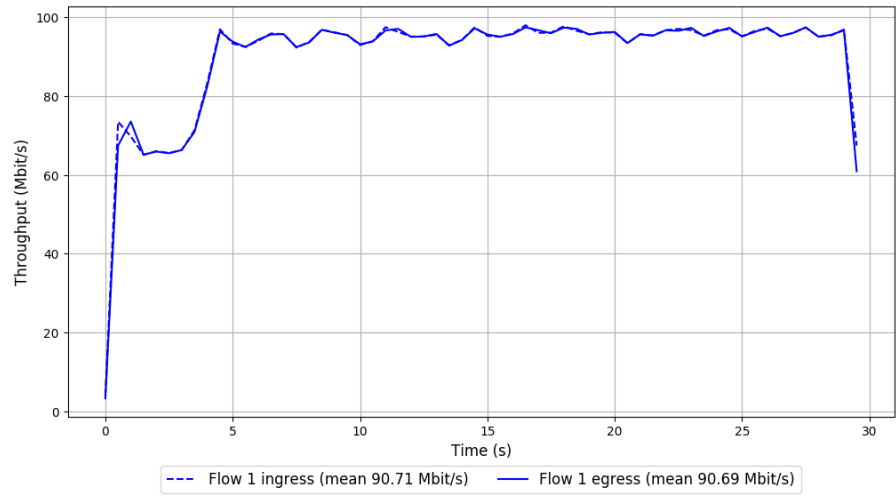
Run 2: Report of PCC — Data Link

Flow 1 ingress (mean 87.76 Mbit/s)   Flow 1 egress (mean 87.65 Mbit/s)

Flow 1 (95th percentile 32.87 ms)

```
Run 3: Statistics of PCC

Start at: 2017-12-19 20:11:15
End at: 2017-12-19 20:11:46
Local clock offset: -2.568 ms
Remote clock offset: -2.696 ms


# Below is generated by plot.py at 2017-12-20 02:07:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.07 Mbit/s
95th percentile per-packet one-way delay: 33.278 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 90.07 Mbit/s
95th percentile per-packet one-way delay: 33.278 ms
Loss rate: 0.32%
```
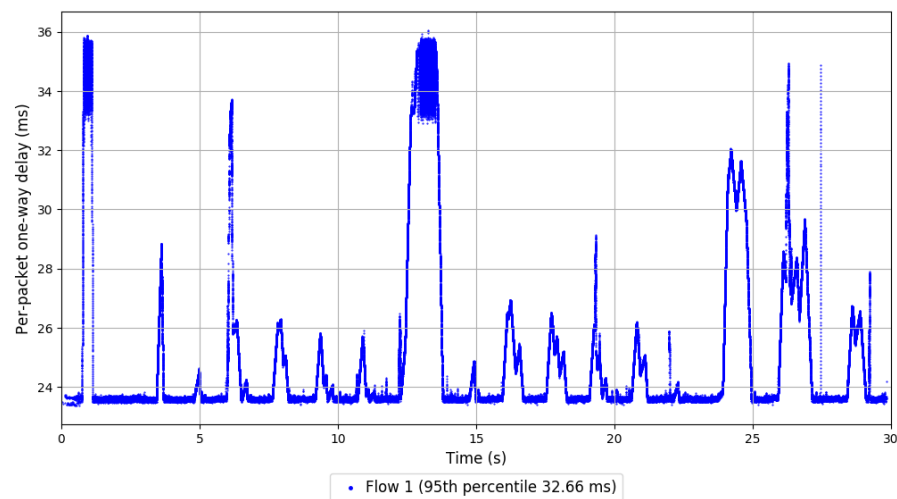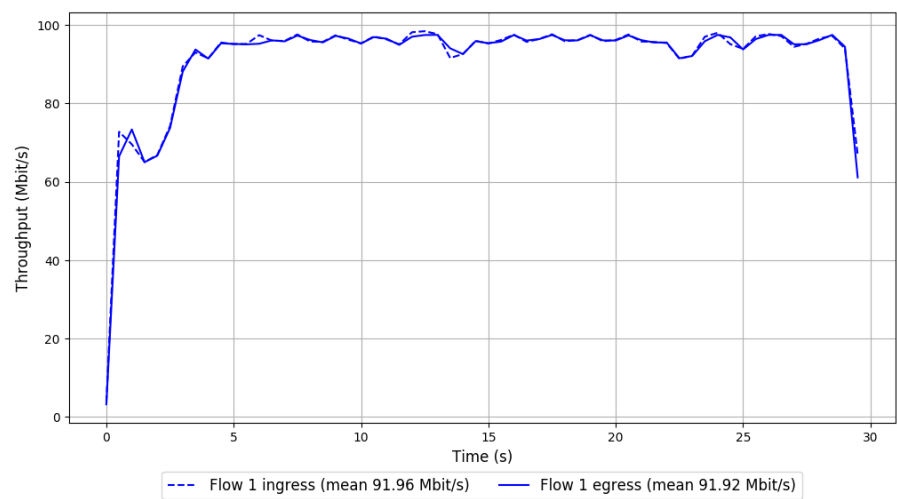
Run 3: Report of PCC — Data Link

```
Run 4: Statistics of PCC

Start at: 2017-12-19 20:31:25
End at: 2017-12-19 20:31:55
Local clock offset: -3.676 ms
Remote clock offset: -0.066 ms


# Below is generated by plot.py at 2017-12-20 02:07:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.69 Mbit/s
95th percentile per-packet one-way delay: 25.782 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 90.69 Mbit/s
95th percentile per-packet one-way delay: 25.782 ms
Loss rate: 0.20%
```
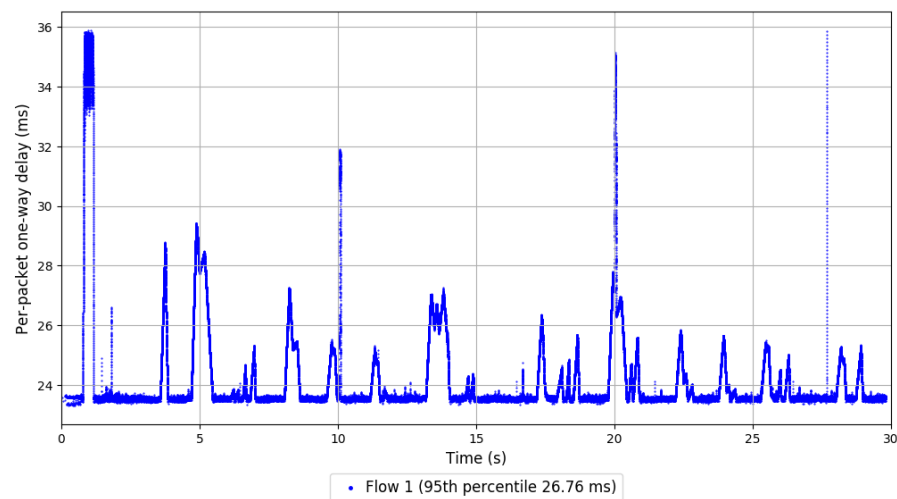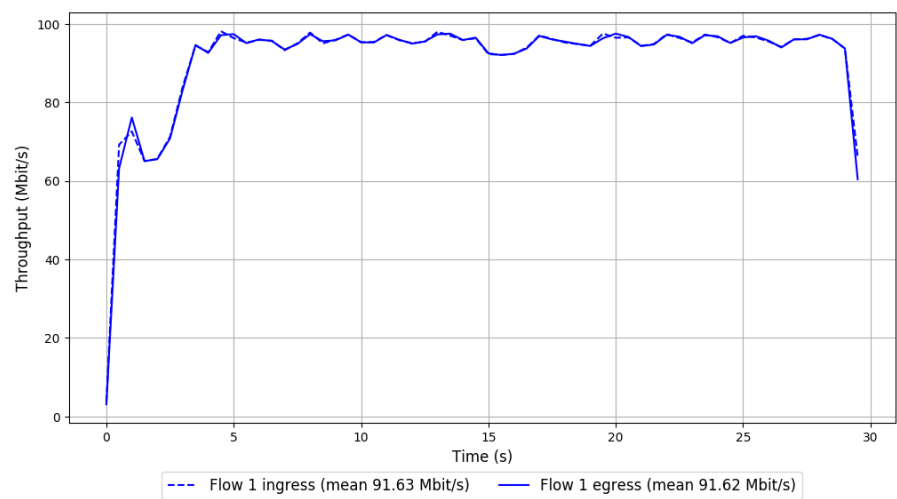
Run 4: Report of PCC — Data Link

```
Run 5: Statistics of PCC

Start at: 2017-12-19 20:51:24
End at: 2017-12-19 20:51:54
Local clock offset: -2.783 ms
Remote clock offset: -1.355 ms


# Below is generated by plot.py at 2017-12-20 02:08:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.92 Mbit/s
95th percentile per-packet one-way delay: 32.655 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 91.92 Mbit/s
95th percentile per-packet one-way delay: 32.655 ms
Loss rate: 0.23%
```
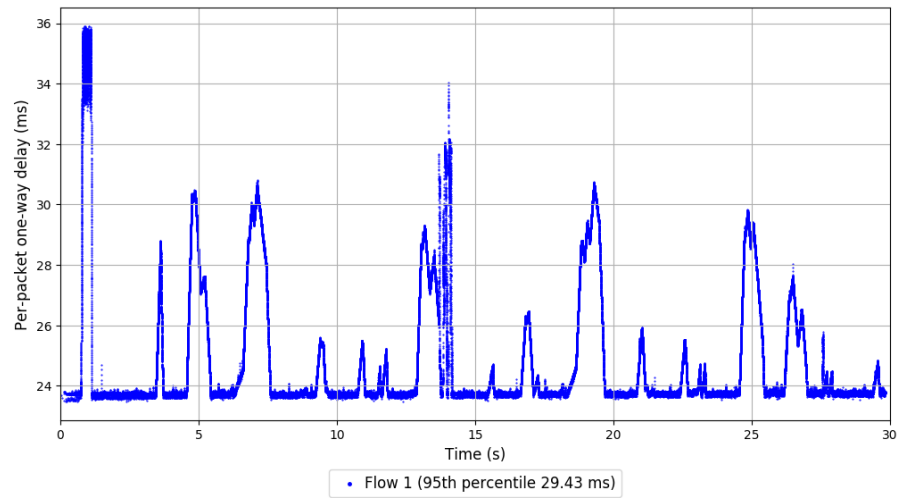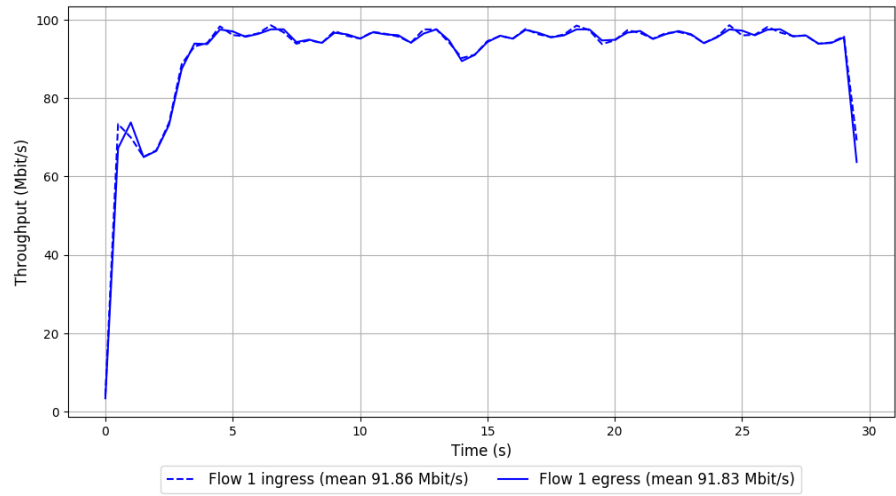
Run 5: Report of PCC — Data Link

Flow 1 ingress (mean 91.96 Mbit/s)   Flow 1 egress (mean 91.92 Mbit/s)

Flow 1 (95th percentile 32.66 ms)

```
Run 6: Statistics of PCC

Start at: 2017-12-19 21:11:33
End at: 2017-12-19 21:12:03
Local clock offset: -2.177 ms
Remote clock offset: -1.811 ms


# Below is generated by plot.py at 2017-12-20 02:08:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.62 Mbit/s
95th percentile per-packet one-way delay: 26.760 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 91.62 Mbit/s
95th percentile per-packet one-way delay: 26.760 ms
Loss rate: 0.19%
```
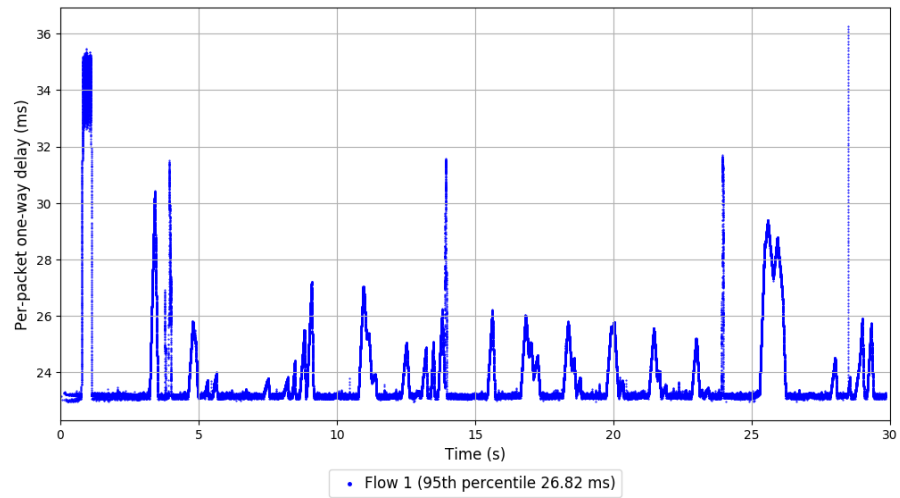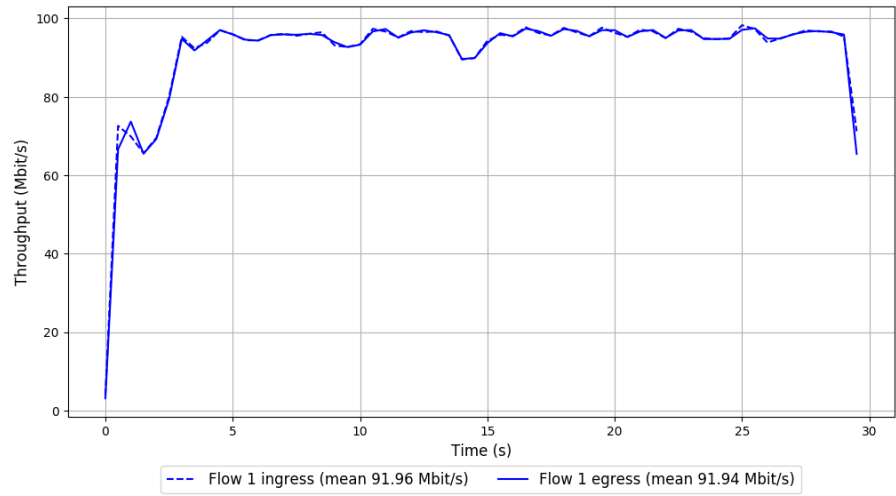
Run 6: Report of PCC — Data Link

Flow 1 ingress (mean 91.63 Mbit/s)   Flow 1 egress (mean 91.62 Mbit/s)

Flow 1 (95th percentile 26.76 ms)

```
Run 7: Statistics of PCC

Start at: 2017-12-19 21:31:39
End at: 2017-12-19 21:32:09
Local clock offset: -3.459 ms
Remote clock offset: -1.722 ms


# Below is generated by plot.py at 2017-12-20 02:08:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.83 Mbit/s
95th percentile per-packet one-way delay: 29.425 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 91.83 Mbit/s
95th percentile per-packet one-way delay: 29.425 ms
Loss rate: 0.21%
```
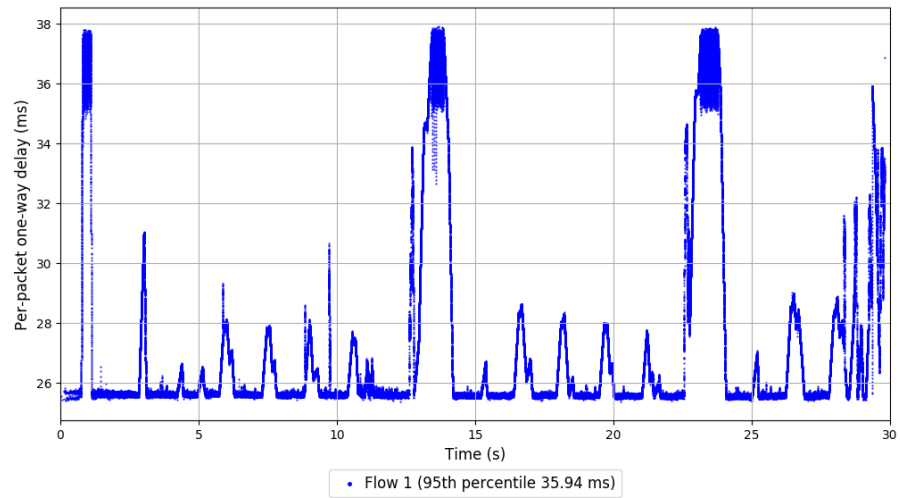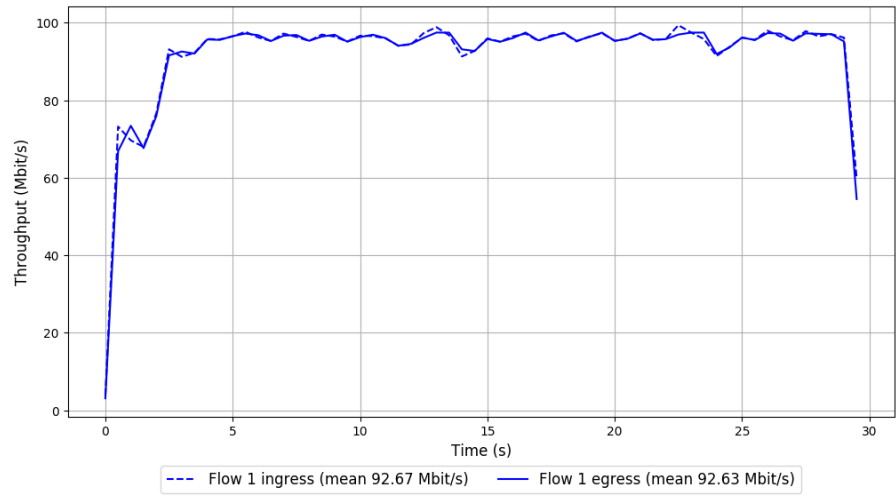
Run 7: Report of PCC — Data Link

Flow 1 ingress (mean 91.86 Mbit/s)   Flow 1 egress (mean 91.83 Mbit/s)
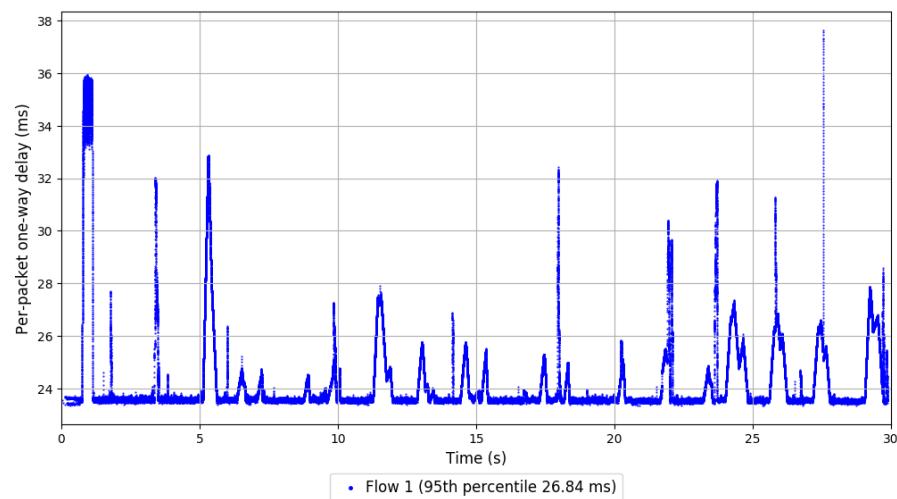

Flow 1 (95th percentile 29.43 ms)

```
Run 8: Statistics of PCC

Start at: 2017-12-19 21:51:49
End at: 2017-12-19 21:52:19
Local clock offset: -3.657 ms
Remote clock offset: -1.304 ms


# Below is generated by plot.py at 2017-12-20 02:08:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.94 Mbit/s
95th percentile per-packet one-way delay: 26.825 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 91.94 Mbit/s
95th percentile per-packet one-way delay: 26.825 ms
Loss rate: 0.19%
```

Run 8: Report of PCC — Data Link

Flow 1 ingress (mean 91.96 Mbit/s)   Flow 1 egress (mean 91.94 Mbit/s)

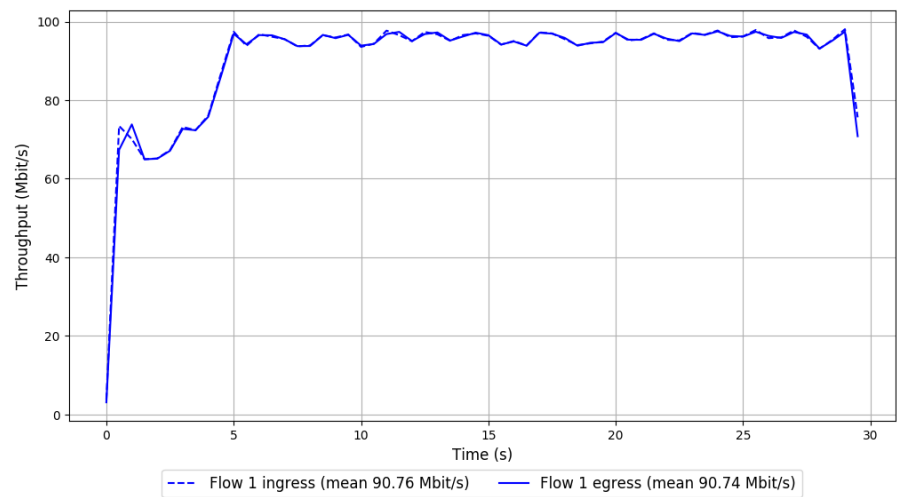Flow 1 (95th percentile 26.82 ms)

```
Run 9: Statistics of PCC

Start at: 2017-12-19 22:11:41
End at: 2017-12-19 22:12:11
Local clock offset: -4.038 ms
Remote clock offset: -4.507 ms


# Below is generated by plot.py at 2017-12-20 02:08:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.63 Mbit/s
95th percentile per-packet one-way delay: 35.943 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 92.63 Mbit/s
95th percentile per-packet one-way delay: 35.943 ms
Loss rate: 0.21%
```
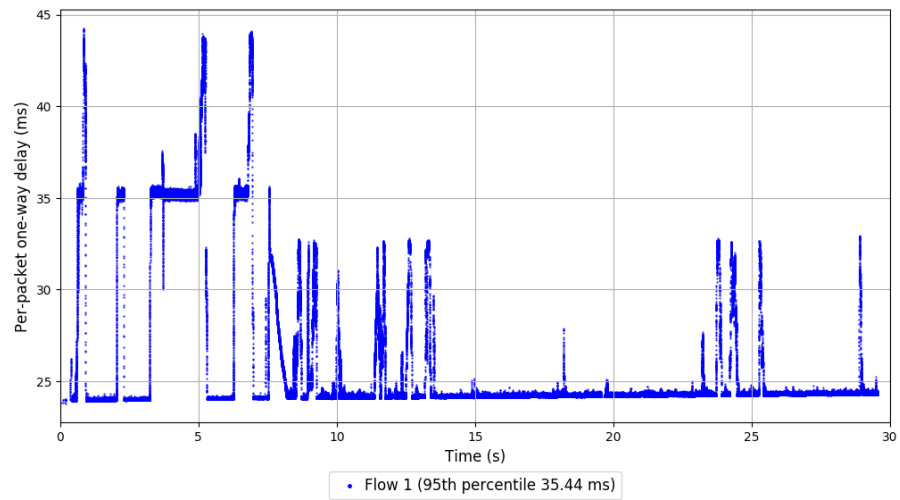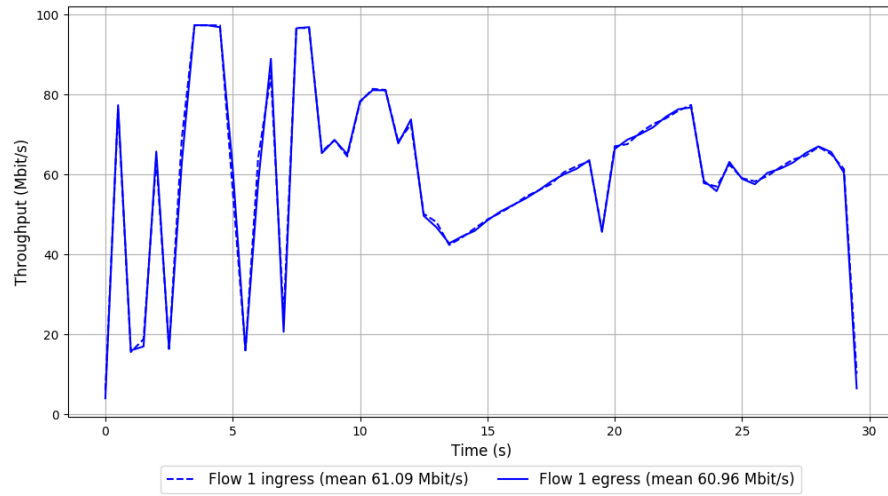
Run 9: Report of PCC — Data Link

```
Run 10: Statistics of PCC

Start at: 2017-12-19 22:31:43
End at: 2017-12-19 22:32:13
Local clock offset: -1.95 ms
Remote clock offset: -3.409 ms


# Below is generated by plot.py at 2017-12-20 02:08:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.74 Mbit/s
95th percentile per-packet one-way delay: 26.835 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 90.74 Mbit/s
95th percentile per-packet one-way delay: 26.835 ms
Loss rate: 0.19%
```

Run 10: Report of PCC — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-19 19:17:41
End at: 2017-12-19 19:18:11
Local clock offset: -9.73 ms
Remote clock offset: -0.796 ms


# Below is generated by plot.py at 2017-12-20 02:08:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.96 Mbit/s
95th percentile per-packet one-way delay: 35.438 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 60.96 Mbit/s
95th percentile per-packet one-way delay: 35.438 ms
Loss rate: 0.38%
```
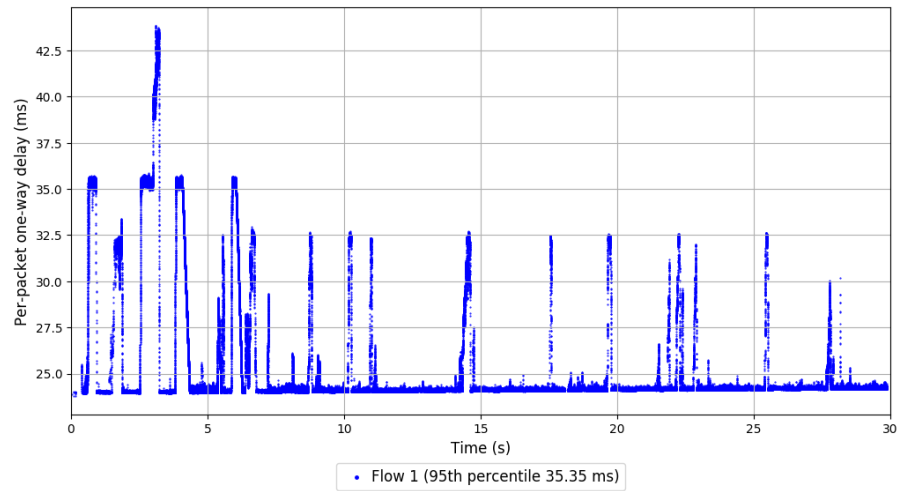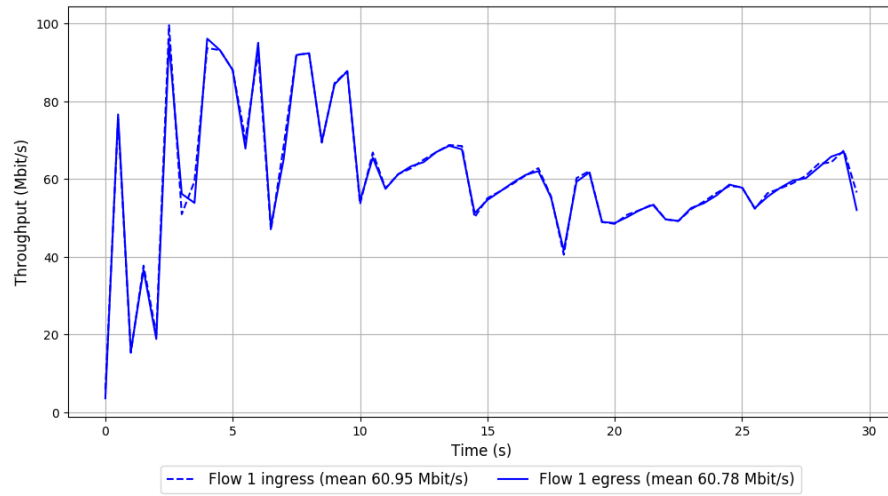
Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2017-12-19 19:37:58
End at: 2017-12-19 19:38:28
Local clock offset: -12.05 ms
Remote clock offset: -1.295 ms


# Below is generated by plot.py at 2017-12-20 02:08:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.78 Mbit/s
95th percentile per-packet one-way delay: 35.355 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 60.78 Mbit/s
95th percentile per-packet one-way delay: 35.355 ms
Loss rate: 0.45%
```

Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2017-12-19 19:57:57
End at: 2017-12-19 19:58:27
Local clock offset: -3.0 ms
Remote clock offset: -1.087 ms


# Below is generated by plot.py at 2017-12-20 02:09:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.26 Mbit/s
95th percentile per-packet one-way delay: 35.287 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 69.26 Mbit/s
95th percentile per-packet one-way delay: 35.287 ms
Loss rate: 0.45%
```
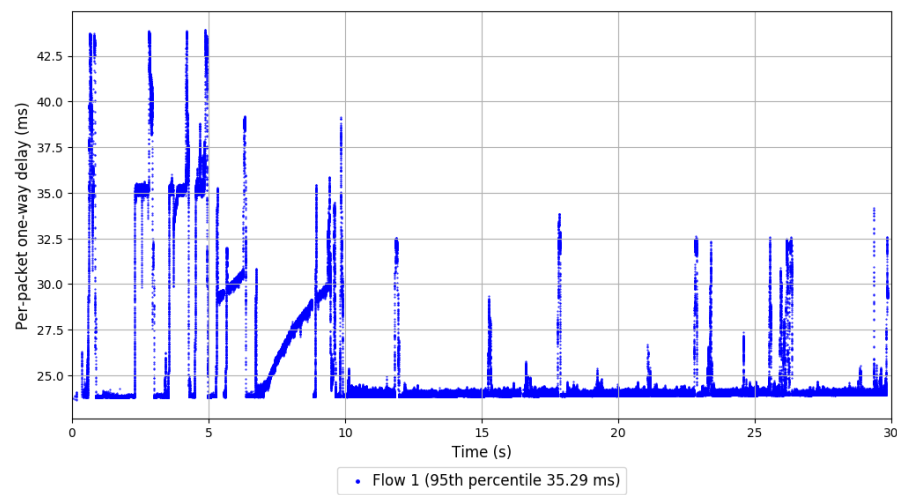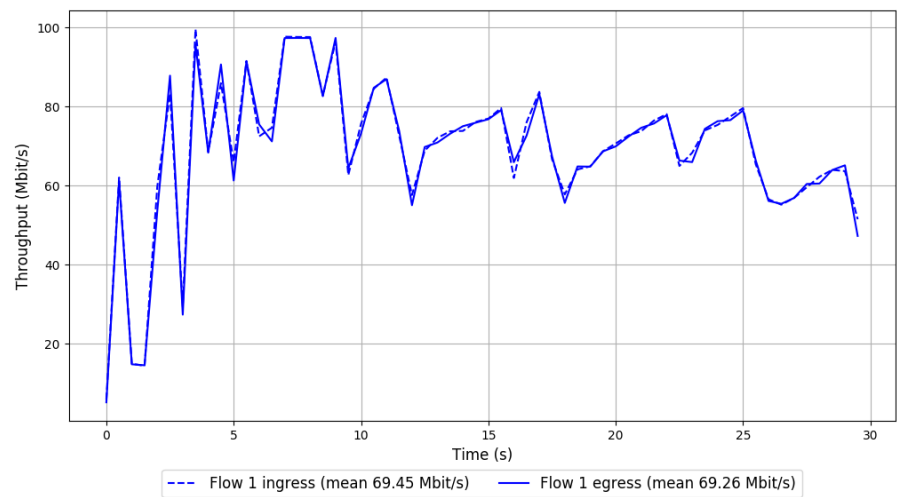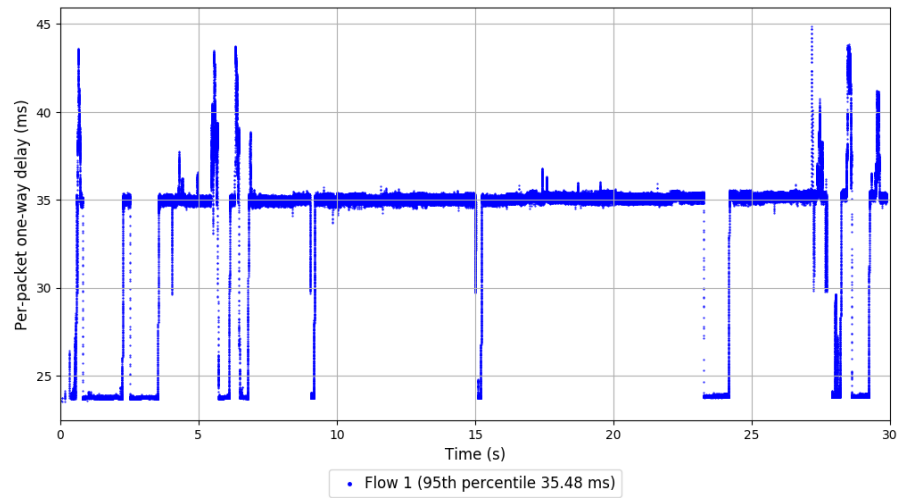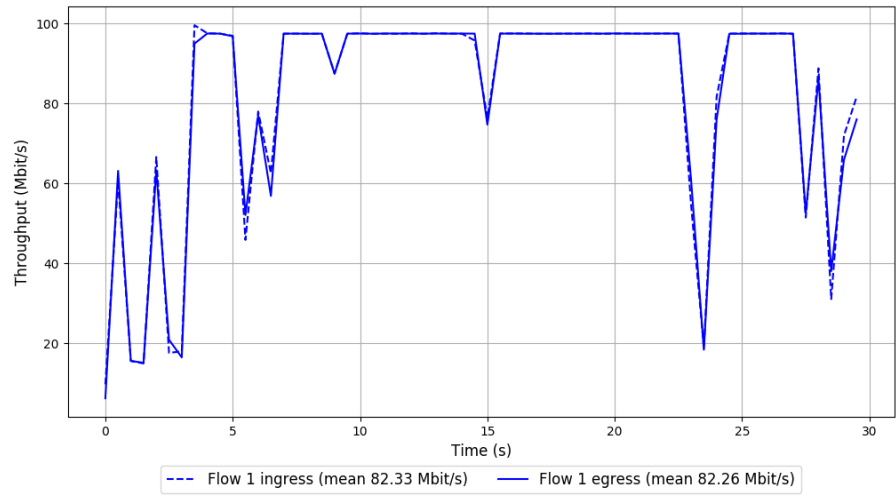
Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 69.45 Mbit/s) --- Flow 1 egress (mean 69.26 Mbit/s)

Flow 1 (95th percentile 35.29 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2017-12-19 20:17:58
End at: 2017-12-19 20:18:28
Local clock offset: -3.001 ms
Remote clock offset: -0.503 ms

# Below is generated by plot.py at 2017-12-20 02:09:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.26 Mbit/s
95th percentile per-packet one-way delay: 35.483 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 82.26 Mbit/s
95th percentile per-packet one-way delay: 35.483 ms
Loss rate: 0.28%
```
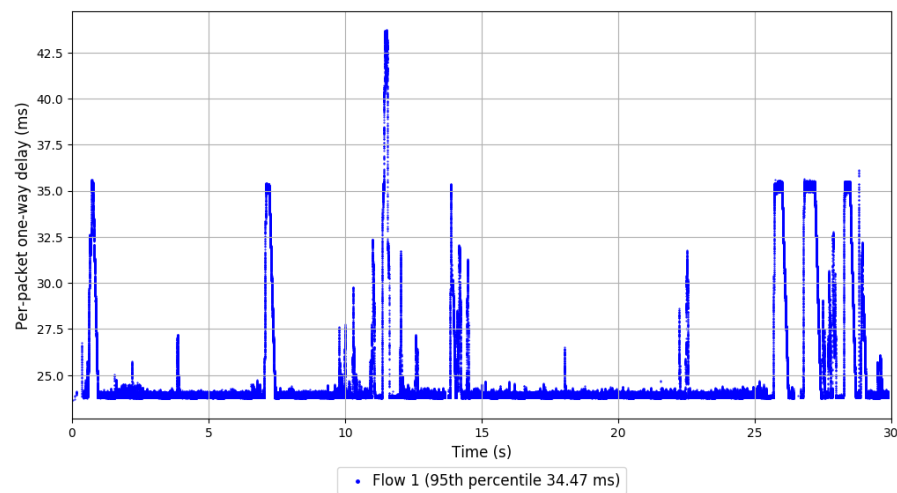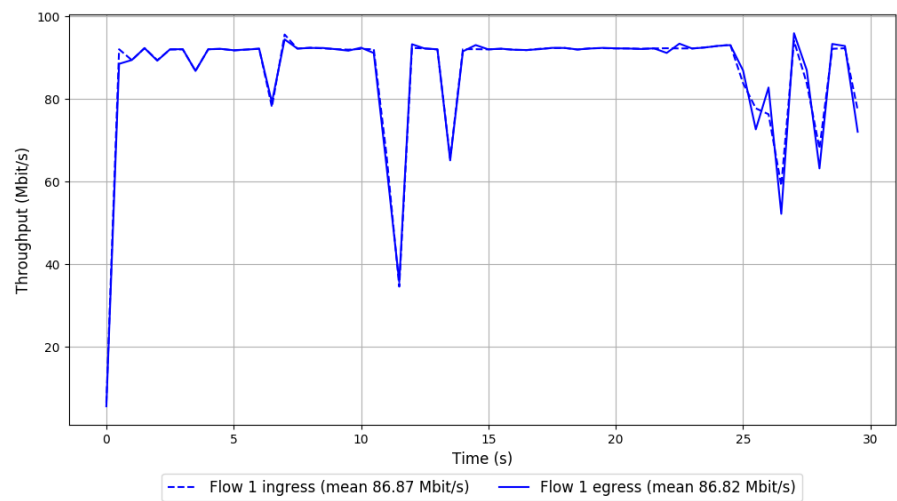
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 82.33 Mbit/s) --- Flow 1 egress (mean 82.26 Mbit/s)

• Flow 1 (95th percentile 35.48 ms)

91

```
Run 5: Statistics of QUIC Cubic

Start at: 2017-12-19 20:38:04
End at: 2017-12-19 20:38:34
Local clock offset: -3.19 ms
Remote clock offset: -0.804 ms


# Below is generated by plot.py at 2017-12-20 02:09:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.82 Mbit/s
95th percentile per-packet one-way delay: 34.474 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 86.82 Mbit/s
95th percentile per-packet one-way delay: 34.474 ms
Loss rate: 0.23%
```
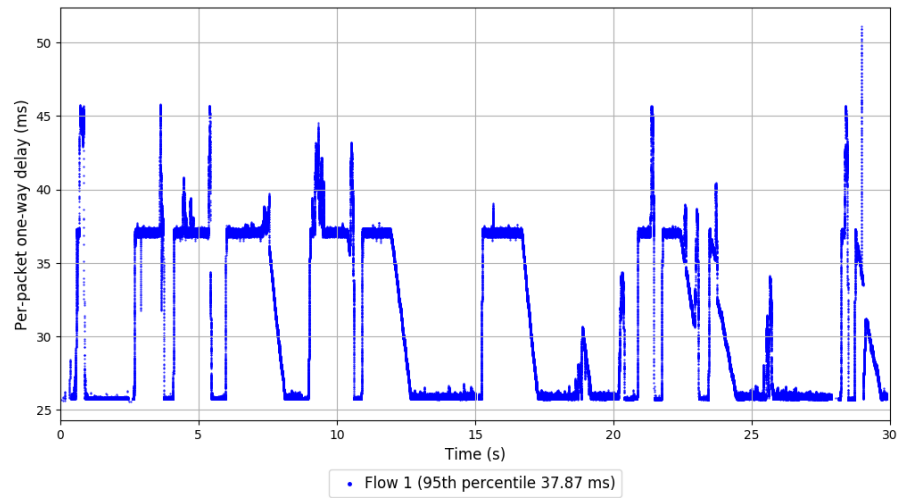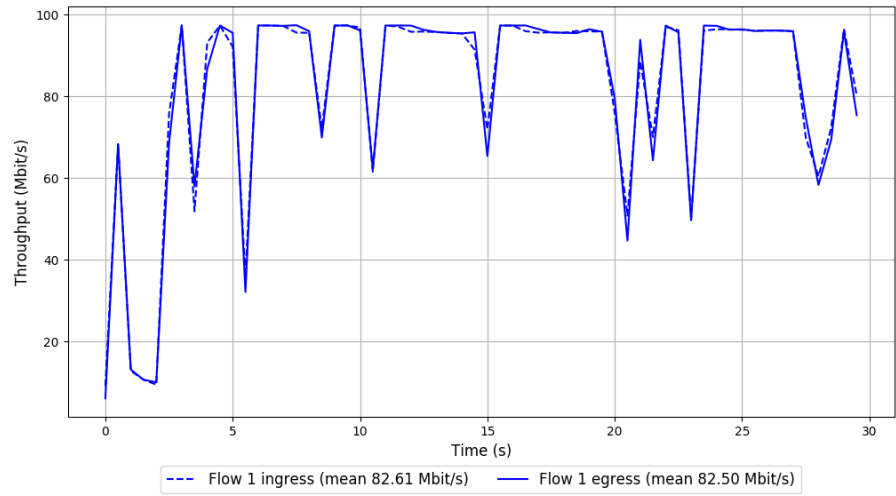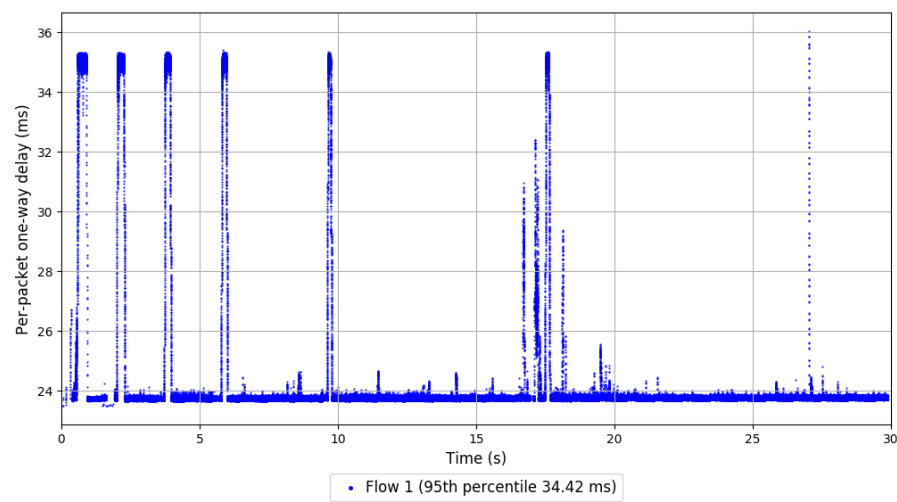
Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 86.87 Mbit/s) --- Flow 1 egress (mean 86.82 Mbit/s)

Flow 1 (95th percentile 34.47 ms)

```
Run 6: Statistics of QUIC Cubic

Start at: 2017-12-19 20:58:03
End at: 2017-12-19 20:58:33
Local clock offset: -2.832 ms
Remote clock offset: -3.773 ms


# Below is generated by plot.py at 2017-12-20 02:09:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.50 Mbit/s
95th percentile per-packet one-way delay: 37.866 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 82.50 Mbit/s
95th percentile per-packet one-way delay: 37.866 ms
Loss rate: 0.31%
```

Run 6: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 82.61 Mbit/s)   Flow 1 egress (mean 82.50 Mbit/s)

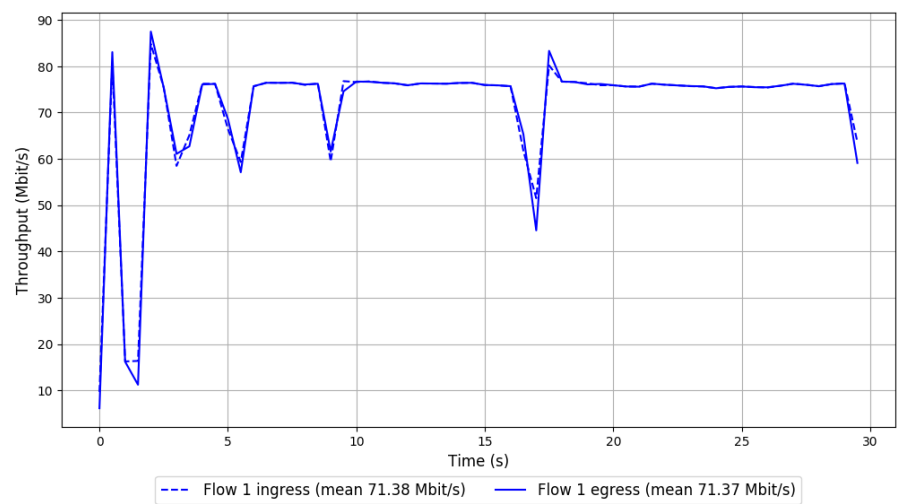

Flow 1 (95th percentile 37.87 ms)

```
Run 7: Statistics of QUIC Cubic

Start at: 2017-12-19 21:18:19
End at: 2017-12-19 21:18:49
Local clock offset: -2.452 ms
Remote clock offset: -1.936 ms


# Below is generated by plot.py at 2017-12-20 02:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.37 Mbit/s
95th percentile per-packet one-way delay: 34.424 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 71.37 Mbit/s
95th percentile per-packet one-way delay: 34.424 ms
Loss rate: 0.19%
```
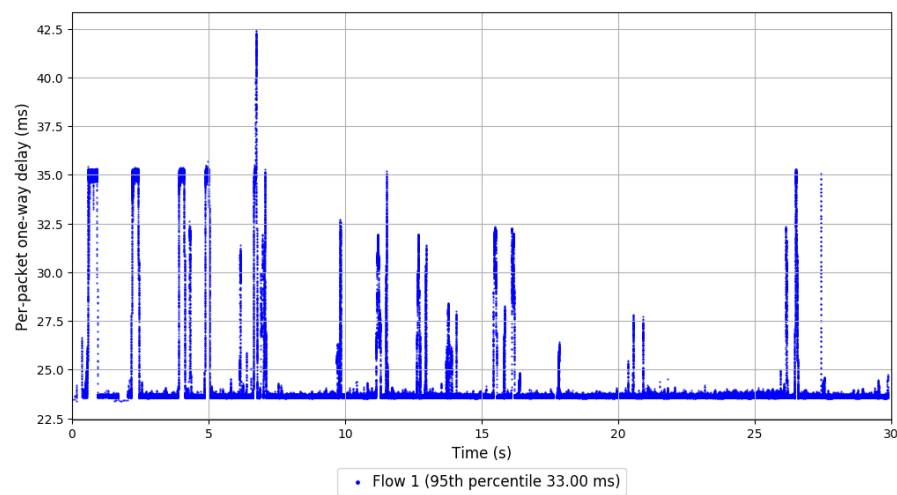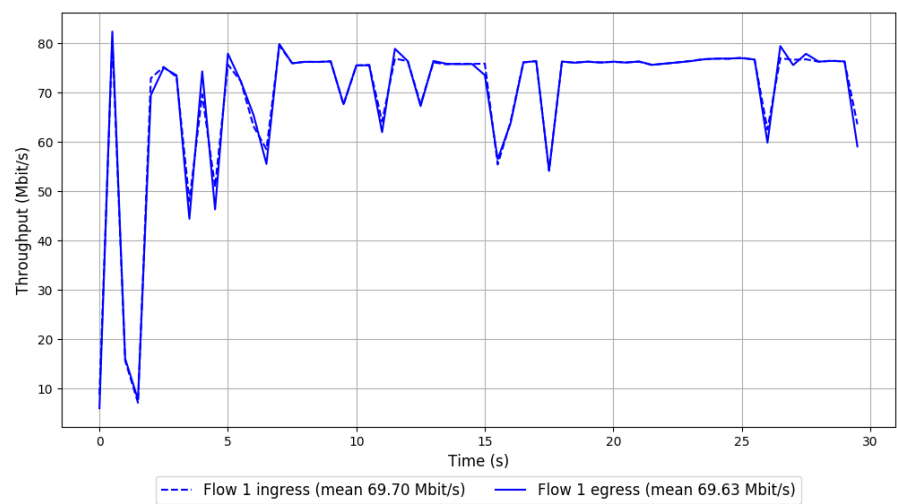
Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 71.38 Mbit/s) --- Flow 1 egress (mean 71.37 Mbit/s)
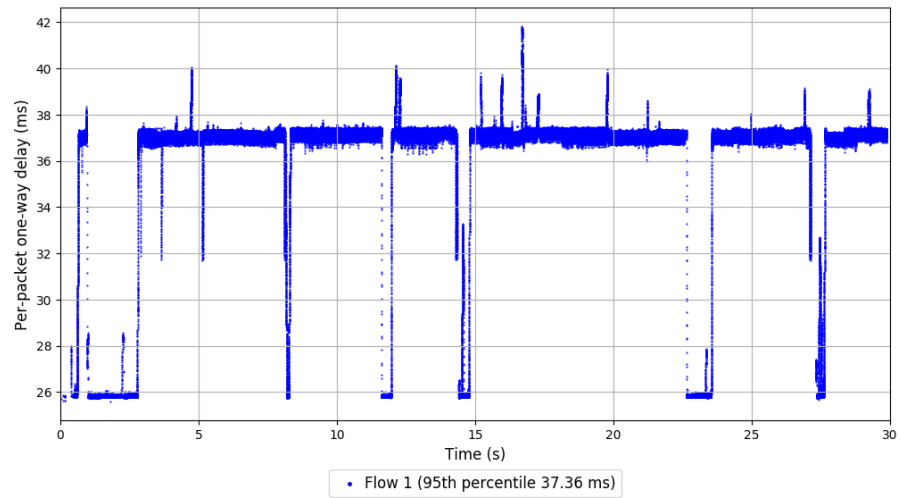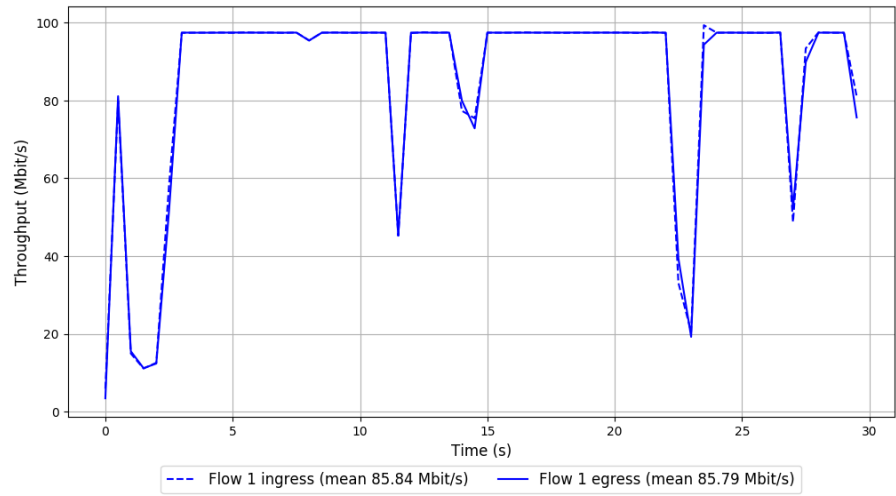

Flow 1 (95th percentile 34.42 ms)

97

```
Run 8: Statistics of QUIC Cubic

Start at: 2017-12-19 21:38:16
End at: 2017-12-19 21:38:46
Local clock offset: -3.458 ms
Remote clock offset: -1.678 ms


# Below is generated by plot.py at 2017-12-20 02:10:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.63 Mbit/s
95th percentile per-packet one-way delay: 32.998 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 69.63 Mbit/s
95th percentile per-packet one-way delay: 32.998 ms
Loss rate: 0.27%
```

Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 69.70 Mbit/s) --- Flow 1 egress (mean 69.63 Mbit/s)

Flow 1 (95th percentile 33.00 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2017-12-19 21:58:27
End at: 2017-12-19 21:58:57
Local clock offset: -3.843 ms
Remote clock offset: -3.948 ms


# Below is generated by plot.py at 2017-12-20 02:10:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.79 Mbit/s
95th percentile per-packet one-way delay: 37.361 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 85.79 Mbit/s
95th percentile per-packet one-way delay: 37.361 ms
Loss rate: 0.25%
```
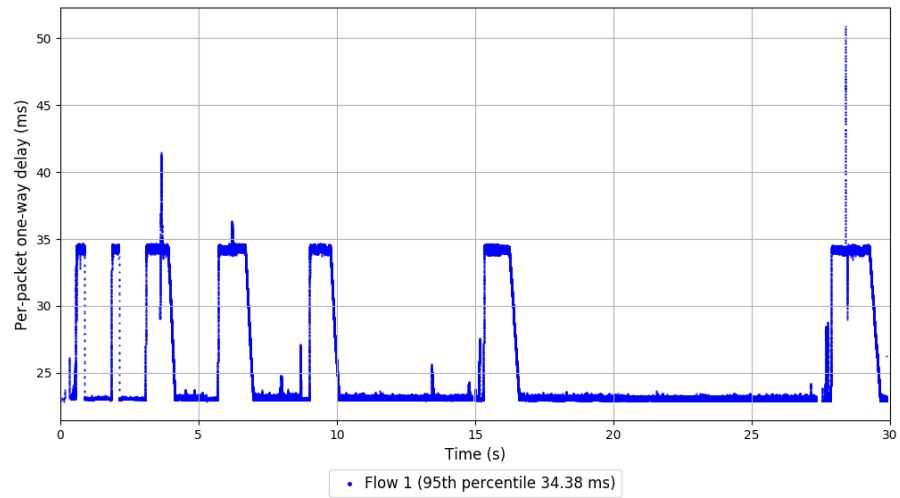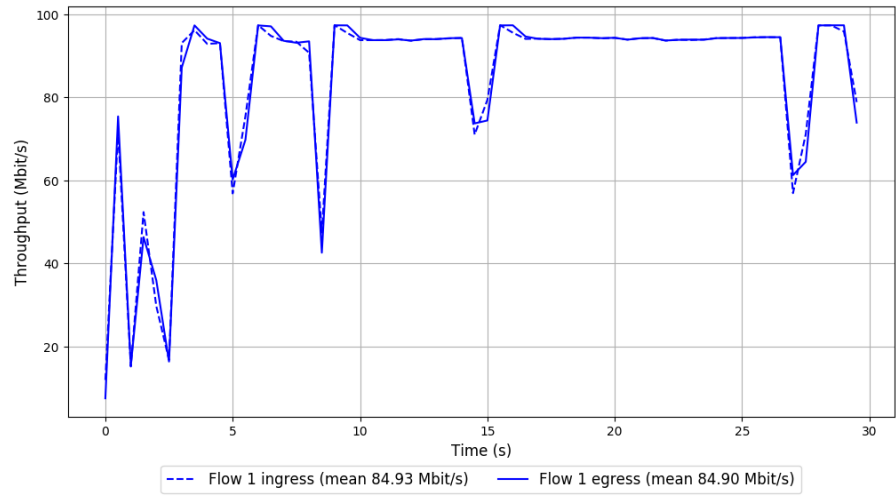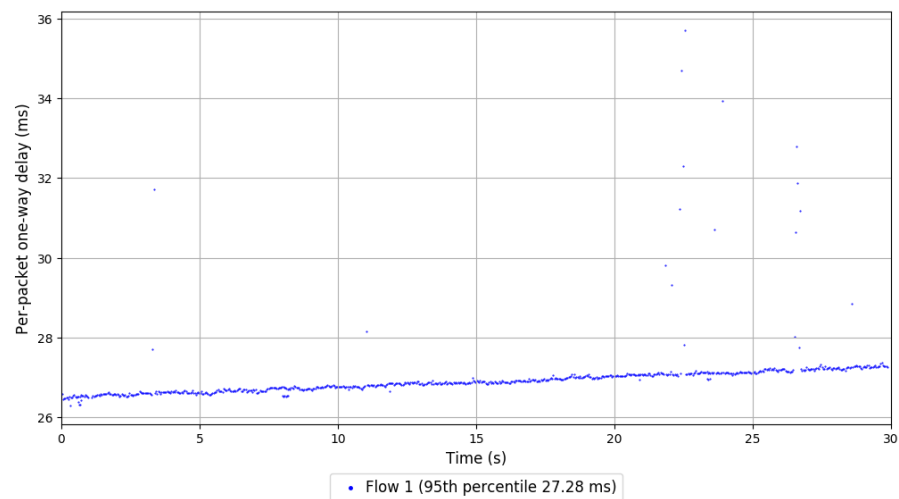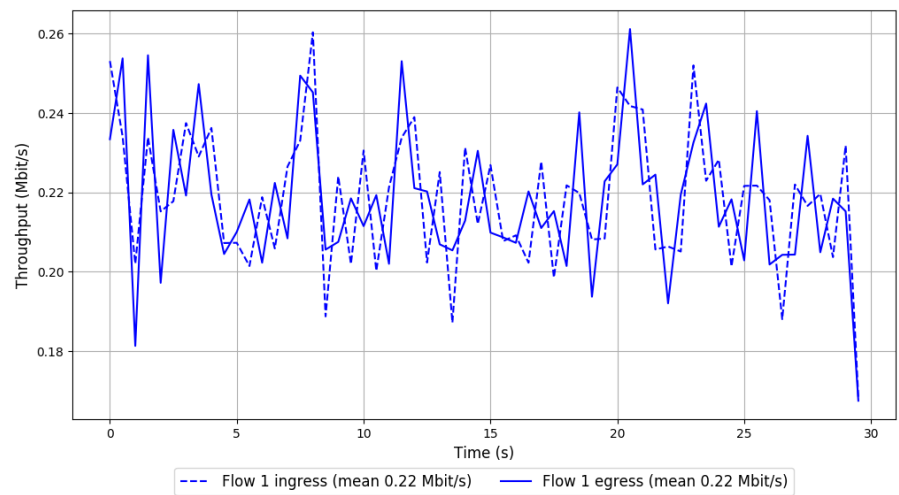
Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 85.84 Mbit/s) --- Flow 1 egress (mean 85.79 Mbit/s)

• Flow 1 (95th percentile 37.36 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2017-12-19 22:18:17
End at: 2017-12-19 22:18:47
Local clock offset: -3.233 ms
Remote clock offset: -2.181 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.90 Mbit/s
95th percentile per-packet one-way delay: 34.376 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 84.90 Mbit/s
95th percentile per-packet one-way delay: 34.376 ms
Loss rate: 0.20%
```

Run 10: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 84.93 Mbit/s) — — — Flow 1 egress (mean 84.90 Mbit/s)
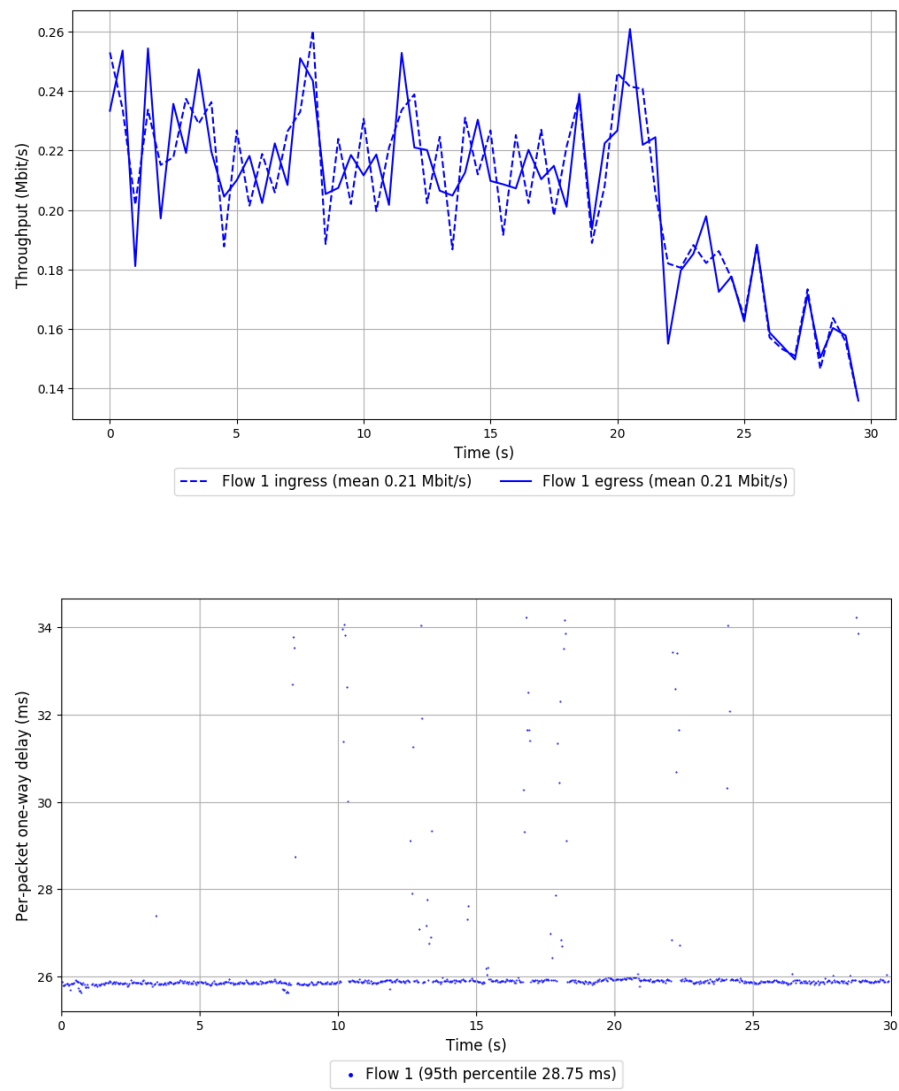

• Flow 1 (95th percentile 34.38 ms)

```
Run 1: Statistics of SCReAM

Start at: 2017-12-19 19:16:25
End at: 2017-12-19 19:16:55
Local clock offset: -7.771 ms
Remote clock offset: -3.398 ms

# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.279 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.279 ms
Loss rate: 0.13%
```
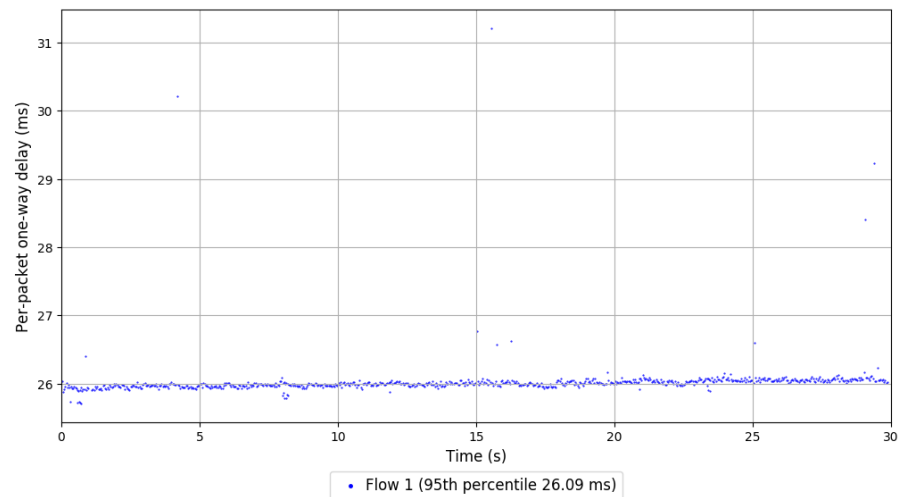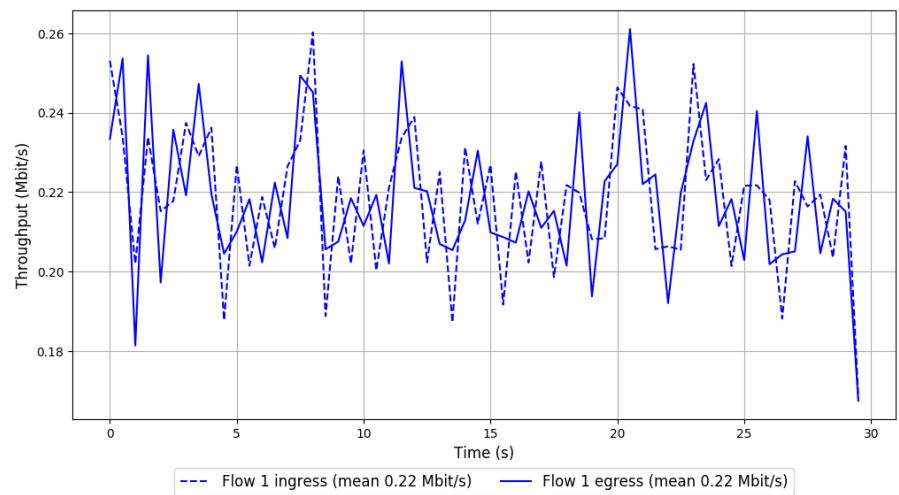
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2017-12-19 19:36:42
End at: 2017-12-19 19:37:12
Local clock offset: -11.811 ms
Remote clock offset: -3.345 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 28.754 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 28.754 ms
Loss rate: 0.22%
```

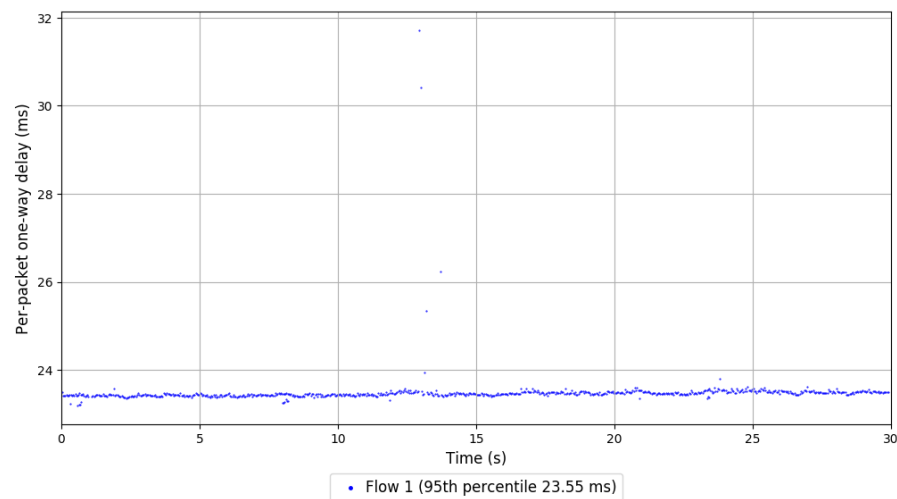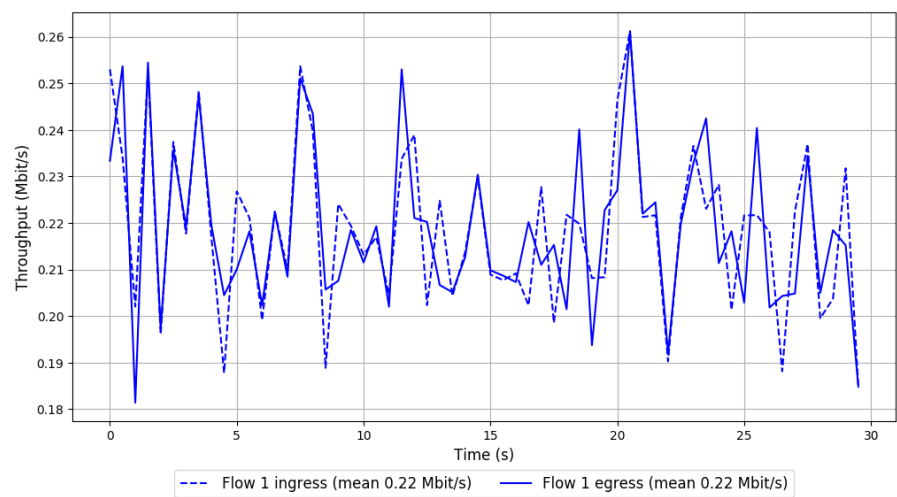Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2017-12-19 19:56:41
End at: 2017-12-19 19:57:11
Local clock offset: -2.693 ms
Remote clock offset: -3.175 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 26.085 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 26.085 ms
Loss rate: 0.13%
```
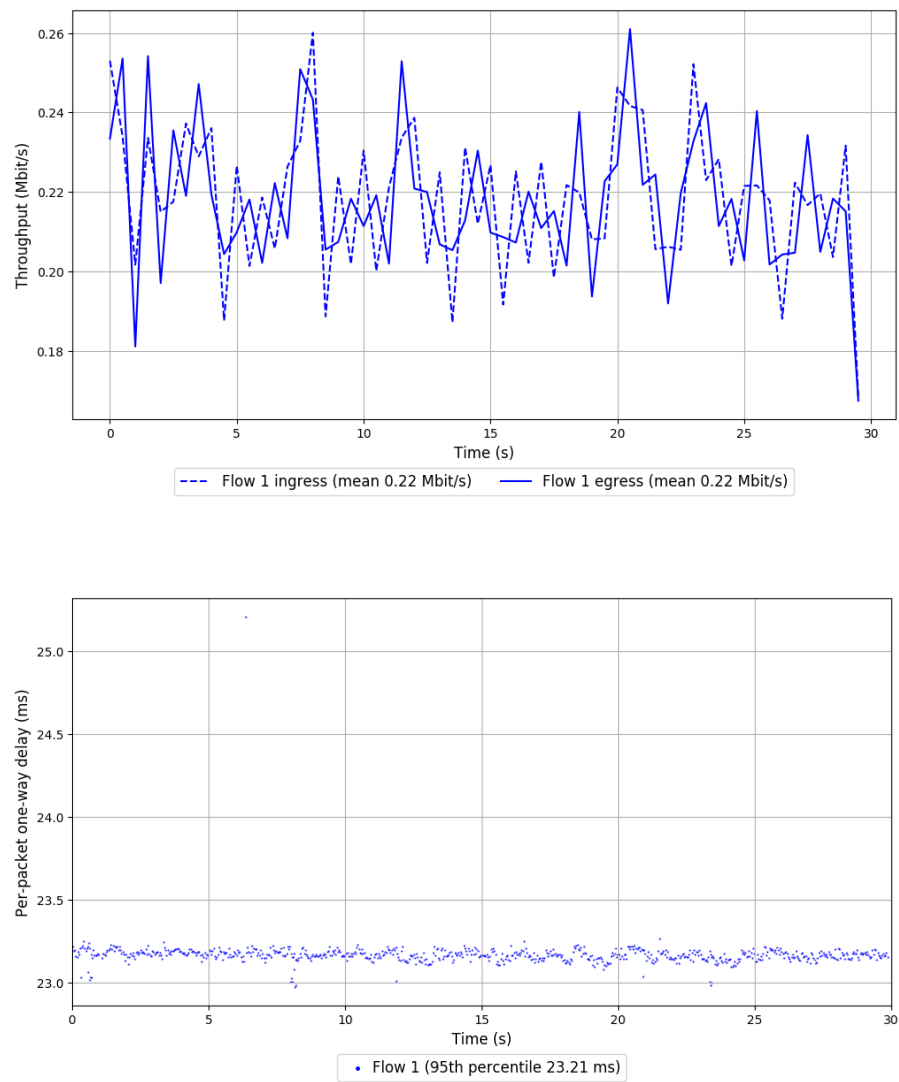
Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2017-12-19 20:16:42
End at: 2017-12-19 20:17:12
Local clock offset: -2.676 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.545 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.545 ms
Loss rate: 0.13%
```
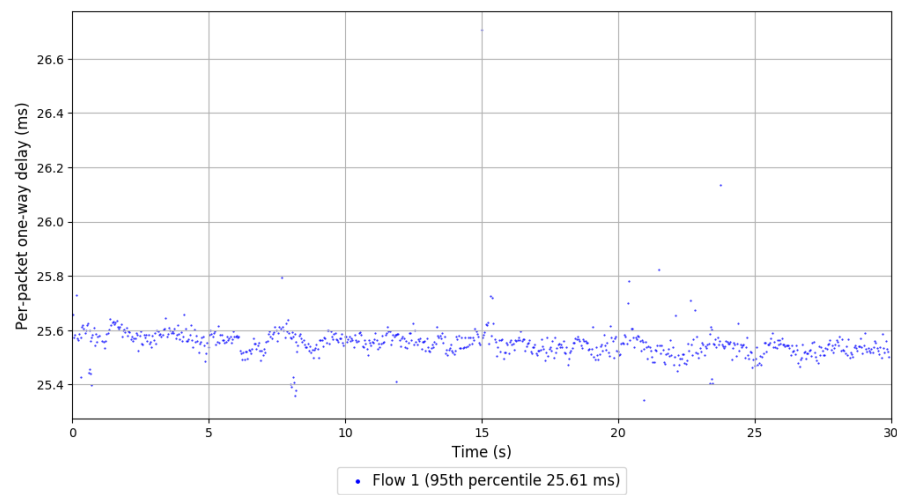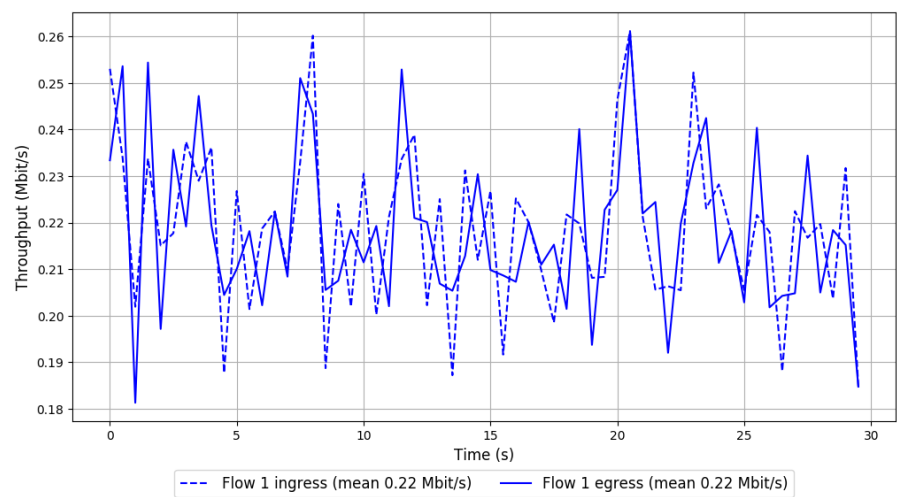
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2017-12-19 20:36:49
End at: 2017-12-19 20:37:19
Local clock offset: -3.287 ms
Remote clock offset: -0.206 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.215 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.215 ms
Loss rate: 0.13%
```

Run 5: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.22 Mbit/s)   Flow 1 egress (mean 0.22 Mbit/s)

Flow 1 (95th percentile 23.21 ms)

```
Run 6: Statistics of SCReAM

Start at: 2017-12-19 20:56:48
End at: 2017-12-19 20:57:18
Local clock offset: -3.049 ms
Remote clock offset: -3.667 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.613 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.613 ms
Loss rate: 0.13%
```
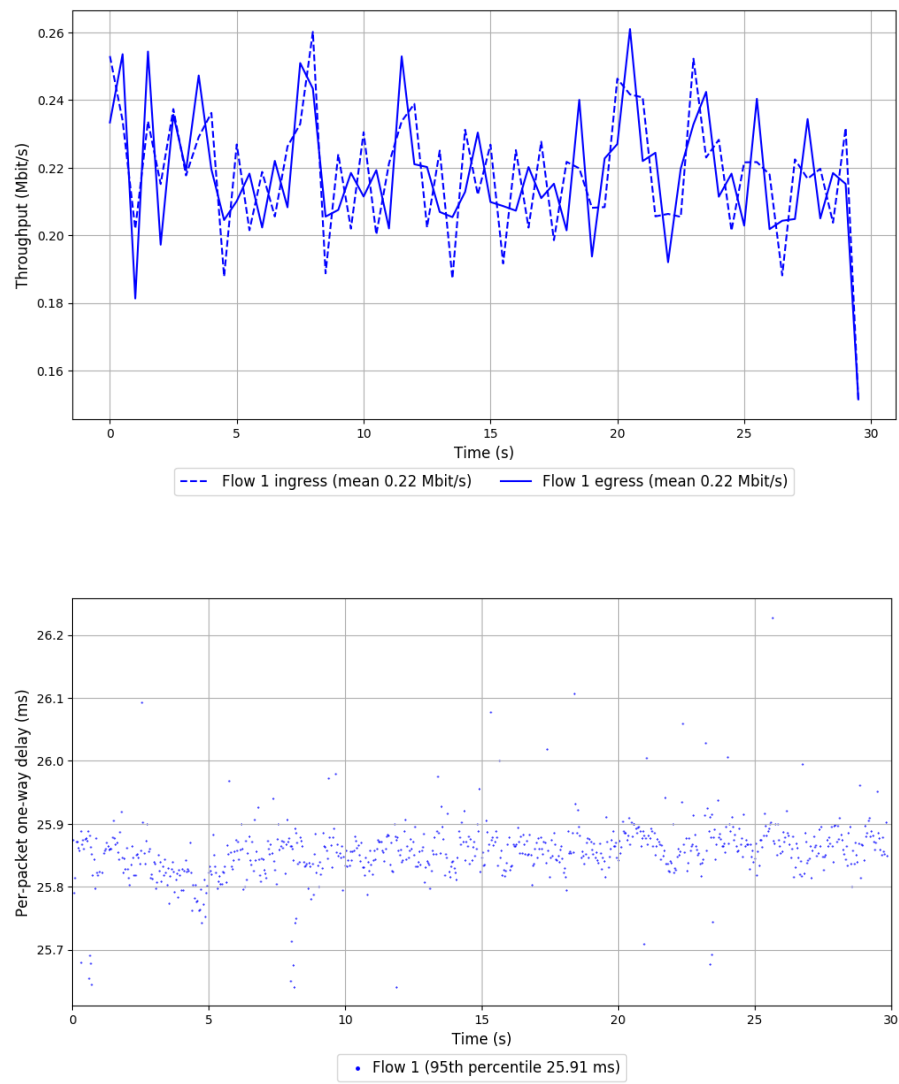
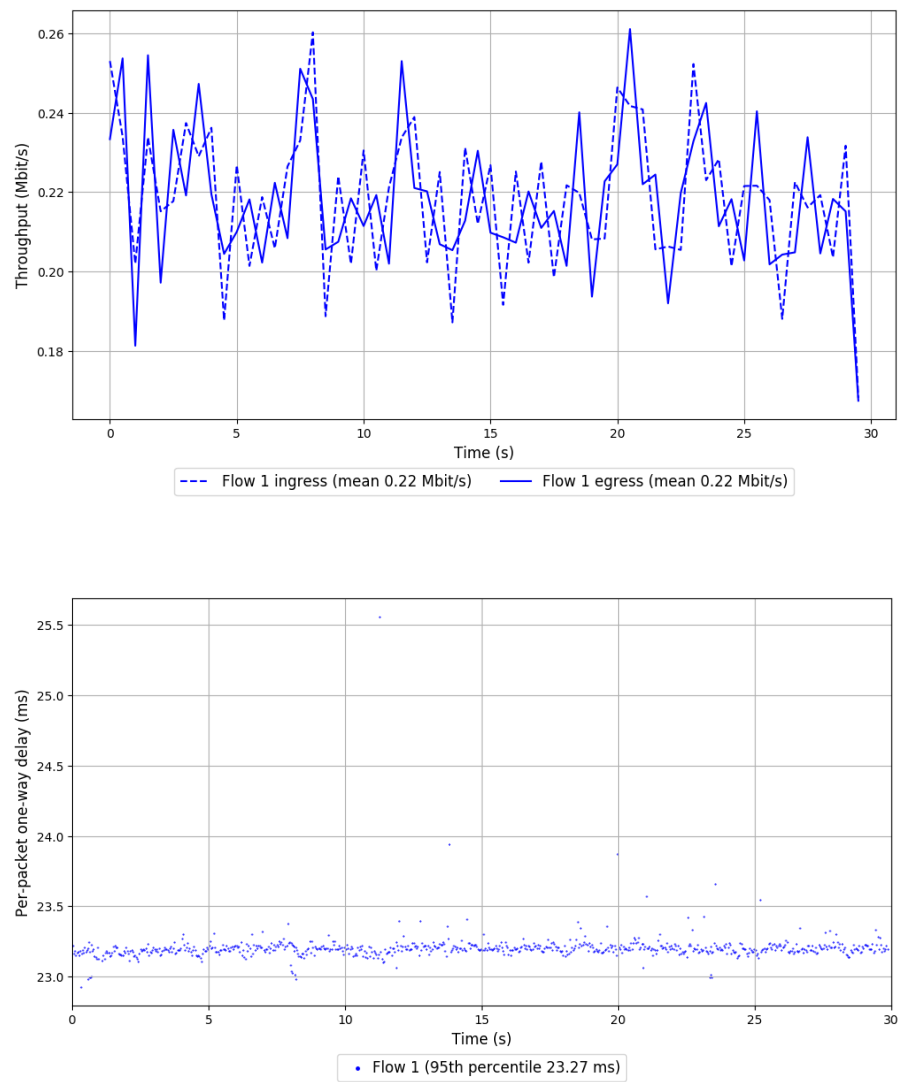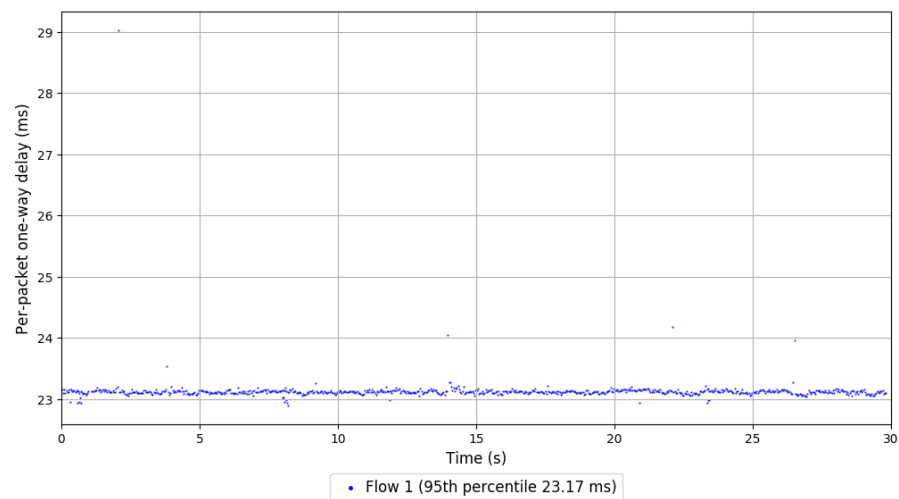Run 6: Report of SCReAM — Data Link

```
Run 7: Statistics of SCReAM

Start at: 2017-12-19 21:17:03
End at: 2017-12-19 21:17:33
Local clock offset: -2.38 ms
Remote clock offset: -4.06 ms

# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.911 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.911 ms
Loss rate: 0.12%
```

Run 7: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.22 Mbit/s)   Flow 1 egress (mean 0.22 Mbit/s)

Flow 1 (95th percentile 25.91 ms)

```
Run 8: Statistics of SCReAM

Start at: 2017-12-19 21:37:01
End at: 2017-12-19 21:37:31
Local clock offset: -3.515 ms
Remote clock offset: -1.249 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.268 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.268 ms
Loss rate: 0.13%
```
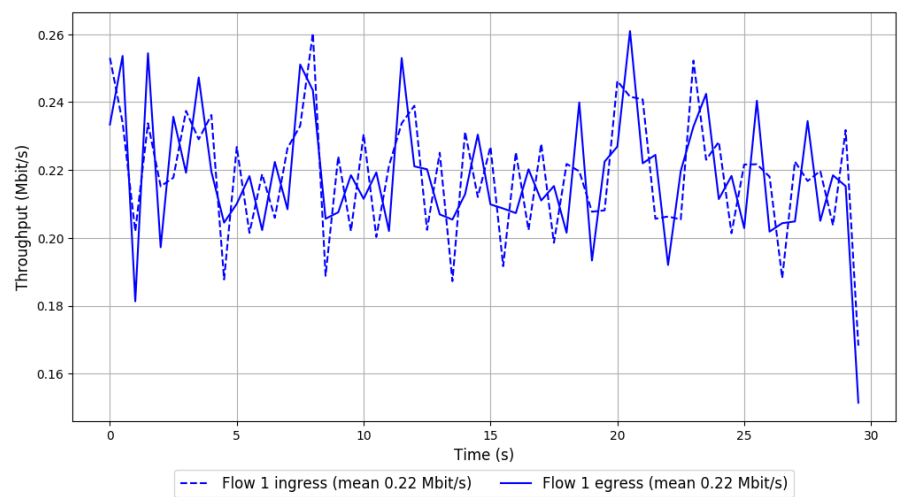
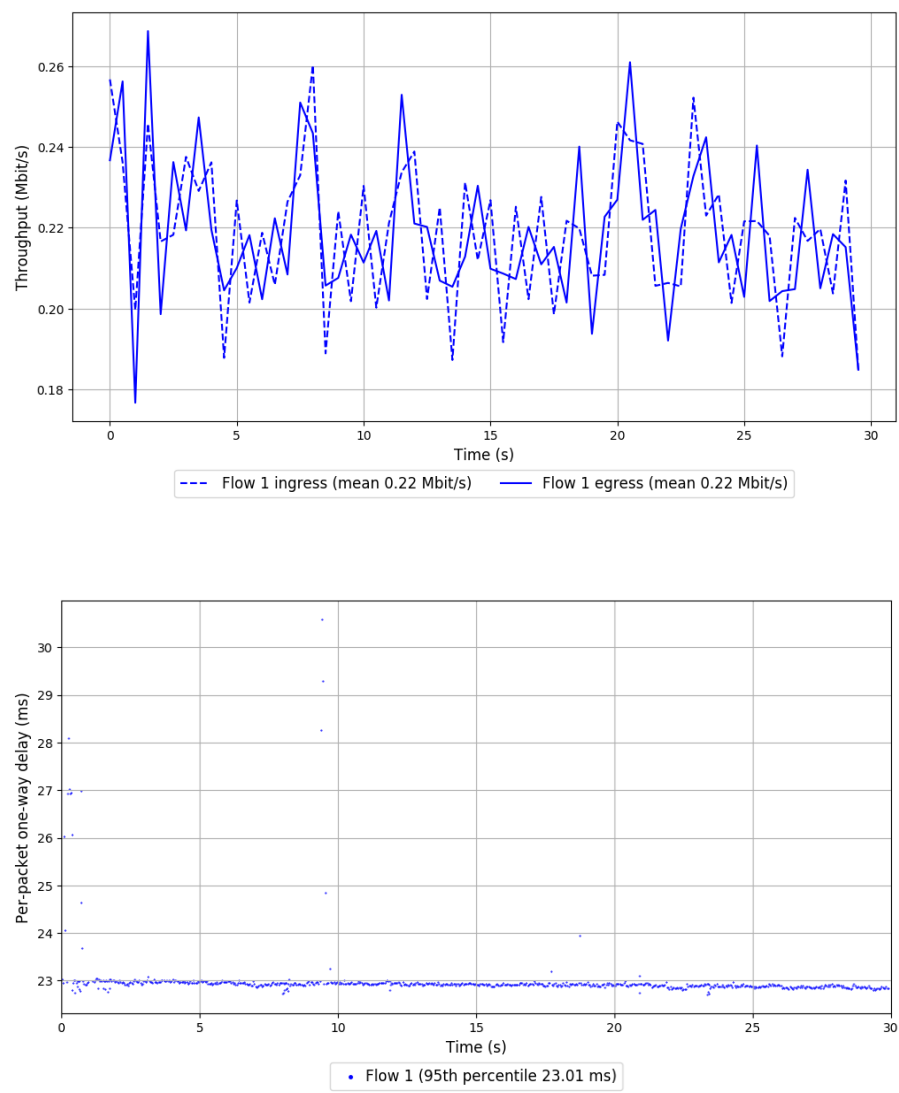Run 8: Report of SCReAM — Data Link

```
Run 9: Statistics of SCReAM

Start at: 2017-12-19 21:57:11
End at: 2017-12-19 21:57:41
Local clock offset: -3.895 ms
Remote clock offset: -1.307 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.168 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.168 ms
Loss rate: 0.25%
```

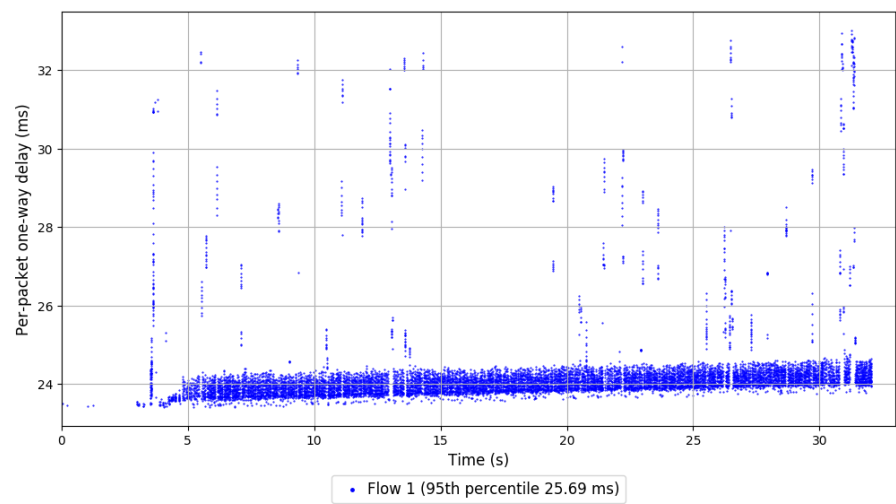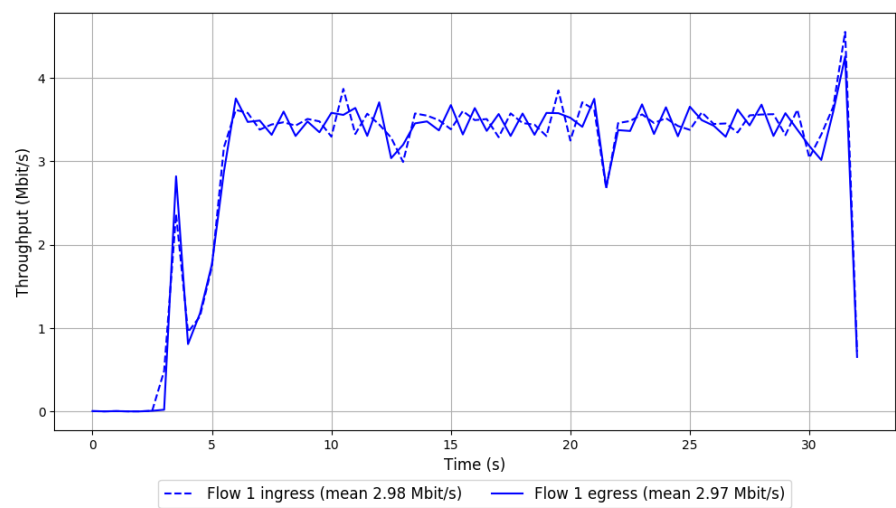# Run 9: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.22 Mbit/s) Flow 1 egress (mean 0.22 Mbit/s)

Flow 1 (95th percentile 23.17 ms)

```
Run 10: Statistics of SCReAM

Start at: 2017-12-19 22:17:02
End at: 2017-12-19 22:17:32
Local clock offset: -3.508 ms
Remote clock offset: -2.035 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.012 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.012 ms
Loss rate: 0.13%
```
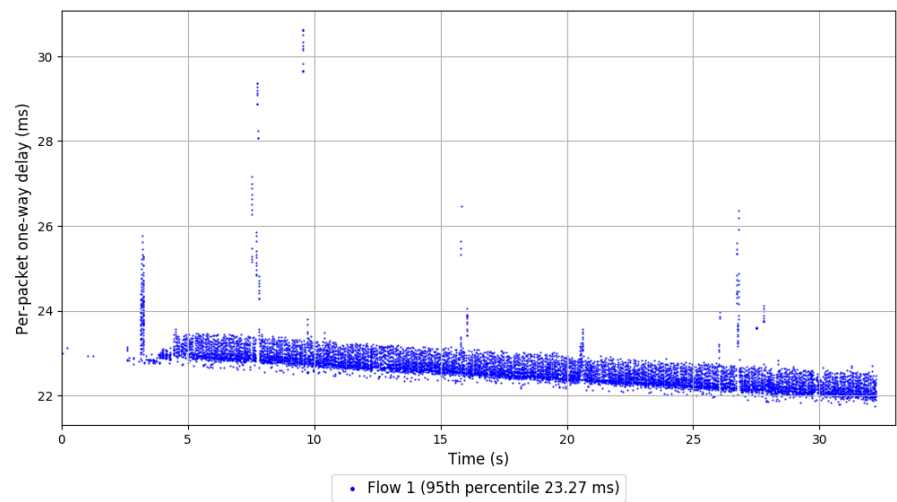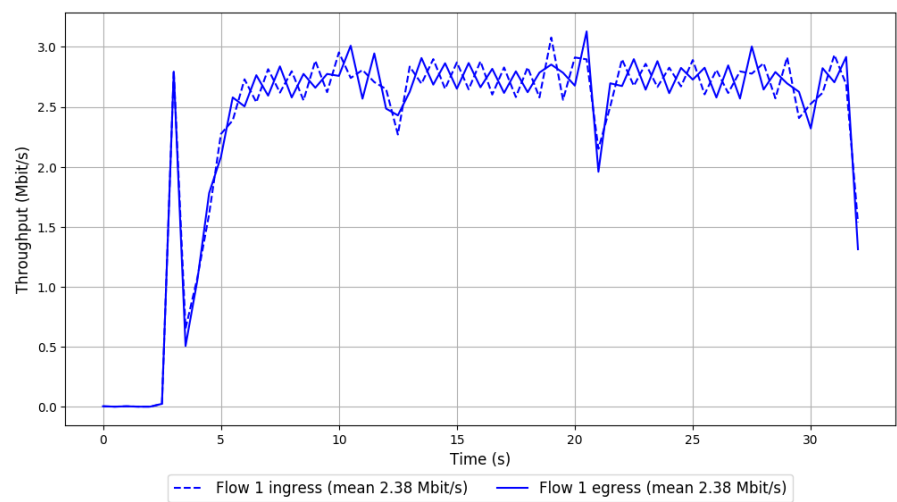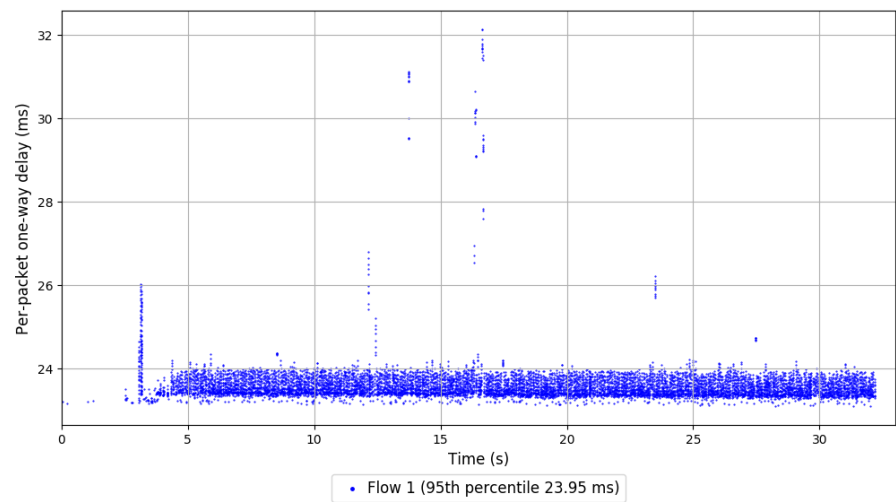
Run 10: Report of SCReAM — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2017-12-19 19:19:06
End at: 2017-12-19 19:19:36
Local clock offset: -11.267 ms
Remote clock offset: -0.9 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 25.691 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 25.691 ms
Loss rate: 0.63%
```

Run 1: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.98 Mbit/s) —— Flow 1 egress (mean 2.97 Mbit/s)
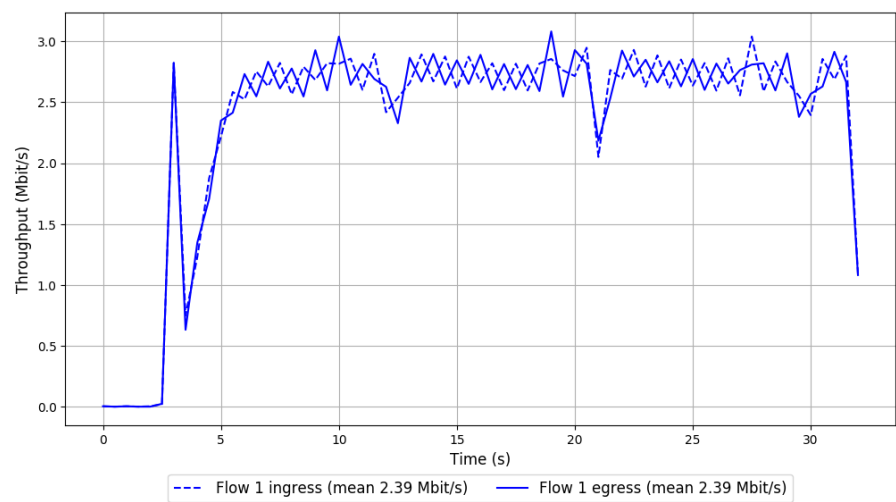

• Flow 1 (95th percentile 25.69 ms)

```
Run 2: Statistics of WebRTC media

Start at: 2017-12-19 19:39:18
End at: 2017-12-19 19:39:48
Local clock offset: -12.711 ms
Remote clock offset: -1.188 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 23.273 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 23.273 ms
Loss rate: 0.15%
```
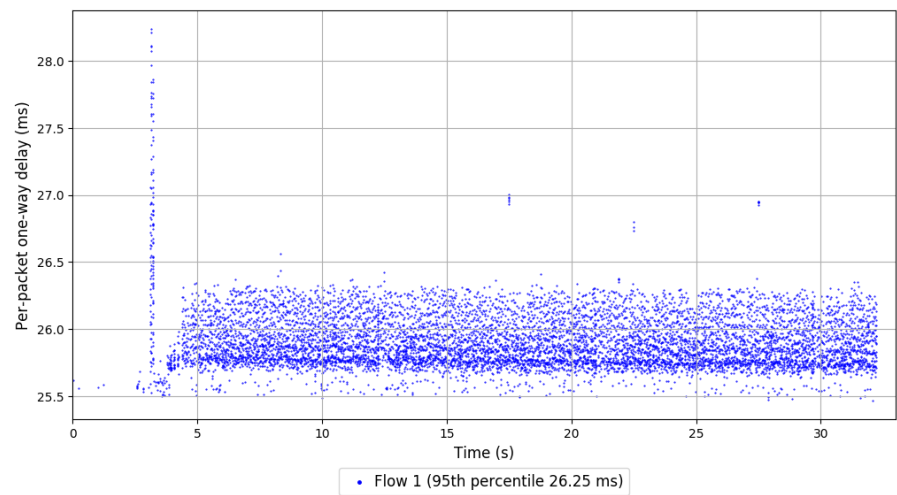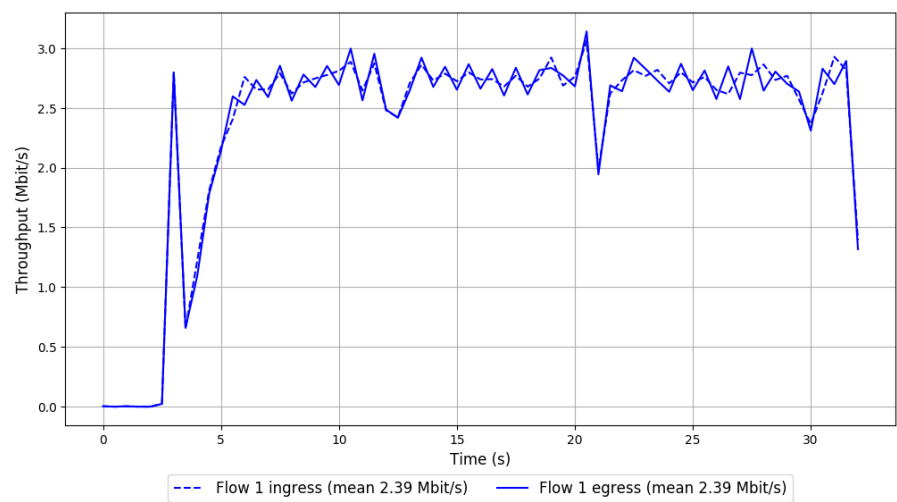
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2017-12-19 19:59:16
End at: 2017-12-19 19:59:46
Local clock offset: -3.36 ms
Remote clock offset: -0.559 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 23.947 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 23.947 ms
Loss rate: 0.15%
```
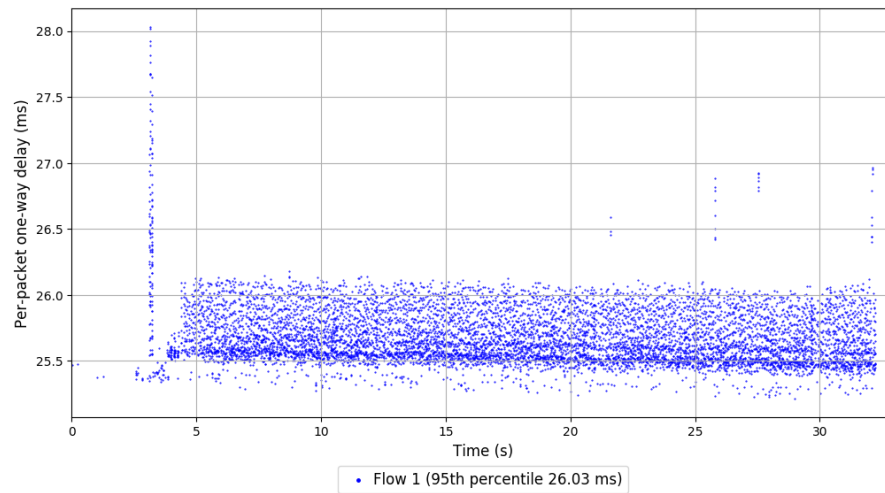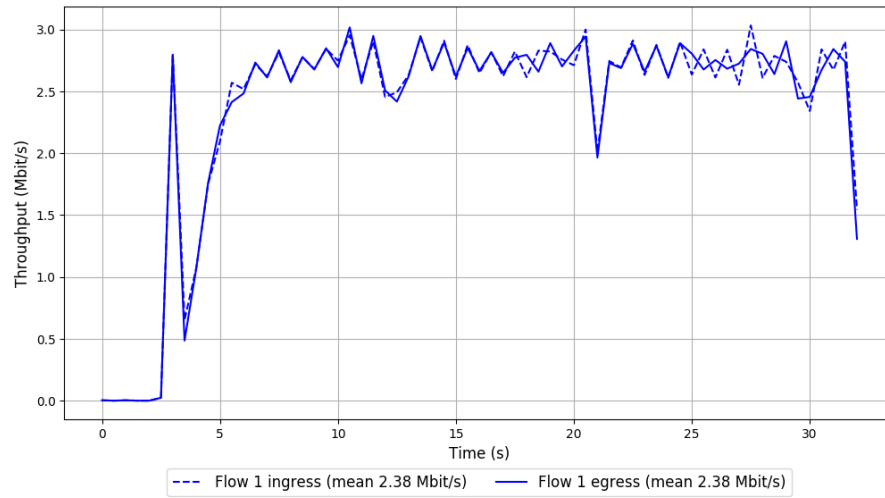
Run 3: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.39 Mbit/s)   Flow 1 egress (mean 2.39 Mbit/s)

Flow 1 (95th percentile 23.95 ms)

```
Run 4: Statistics of WebRTC media

Start at: 2017-12-19 20:19:19
End at: 2017-12-19 20:19:49
Local clock offset: -3.217 ms
Remote clock offset: -2.436 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 26.247 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 26.247 ms
Loss rate: 0.15%
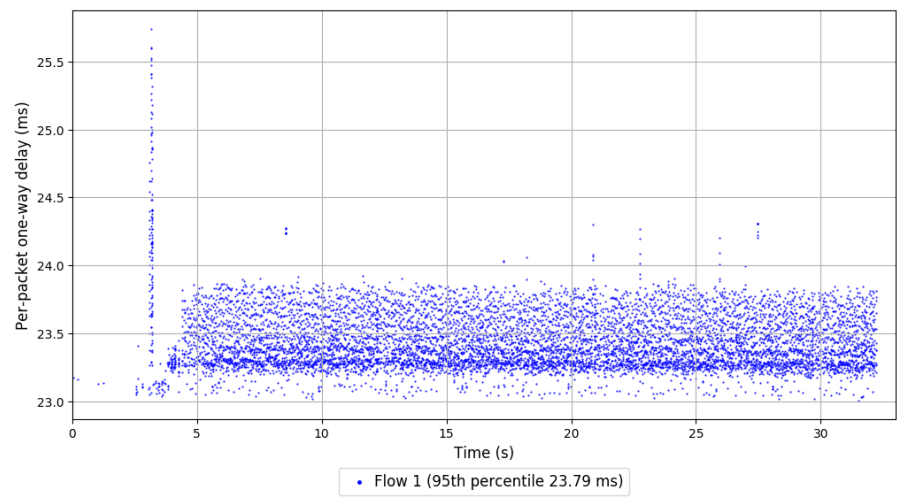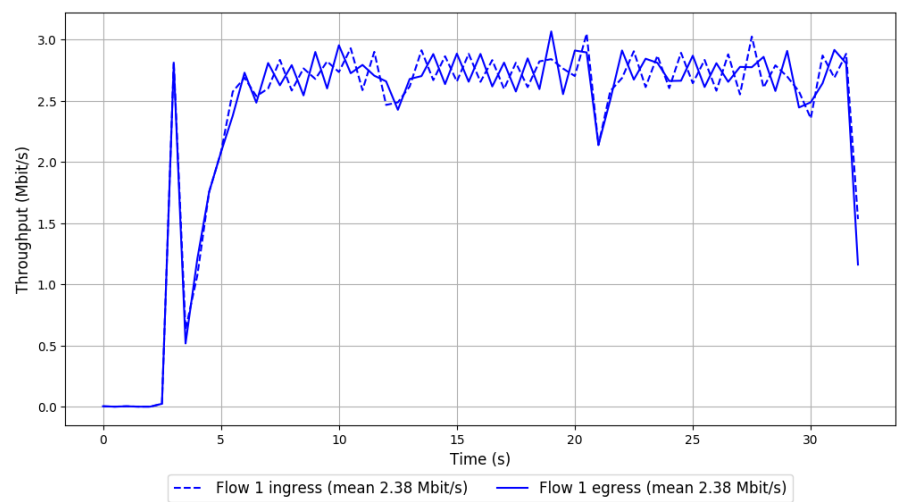```

Run 4: Report of WebRTC media — Data Link



Flow 1 ingress (mean 2.39 Mbit/s)    Flow 1 egress (mean 2.39 Mbit/s)



Flow 1 (95th percentile 26.25 ms)

```
Run 5: Statistics of WebRTC media

Start at: 2017-12-19 20:39:25
End at: 2017-12-19 20:39:55
Local clock offset: -3.266 ms
Remote clock offset: -2.765 ms

Below is generated by plot.py at 2017-12-20 02:10:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 26.027 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 26.027 ms
Loss rate: 0.30%
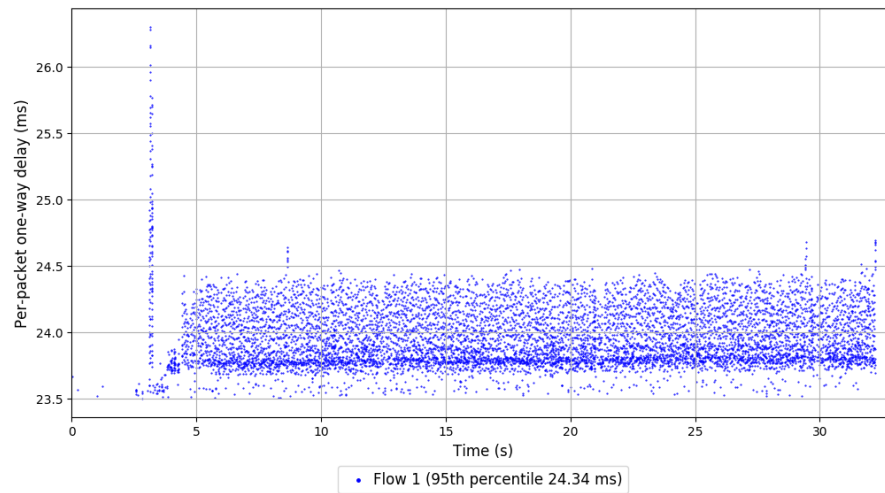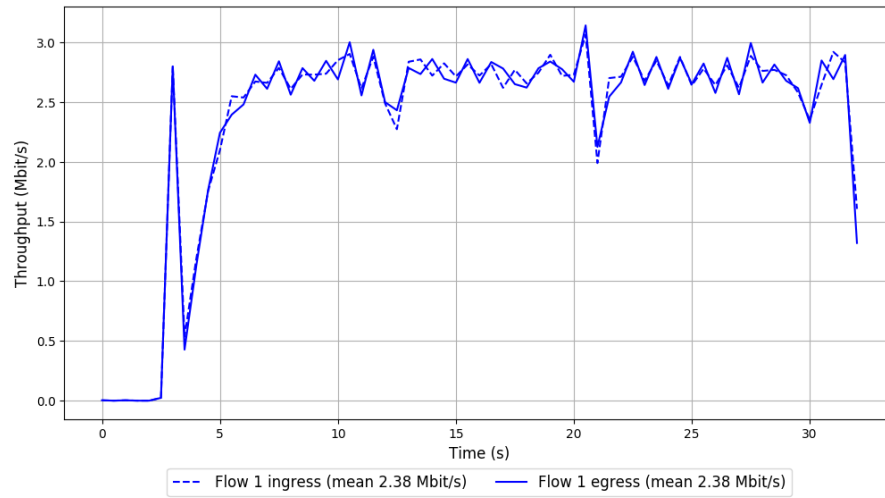```

Run 5: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.38 Mbit/s) ——— Flow 1 egress (mean 2.38 Mbit/s)

• Flow 1 (95th percentile 26.03 ms)

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```
Run 6: Statistics of WebRTC media

Start at: 2017-12-19 20:59:24
End at: 2017-12-19 20:59:54
Local clock offset: -2.736 ms
Remote clock offset: -1.285 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 23.791 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 23.791 ms
Loss rate: 0.29%
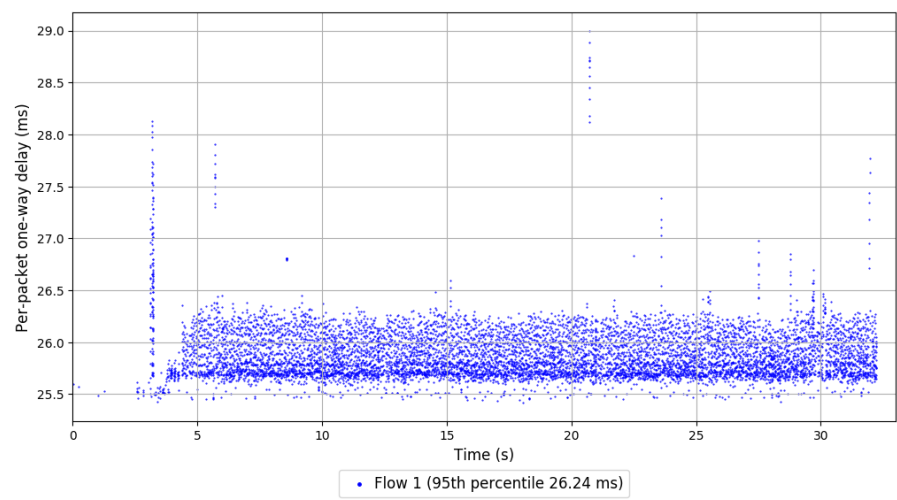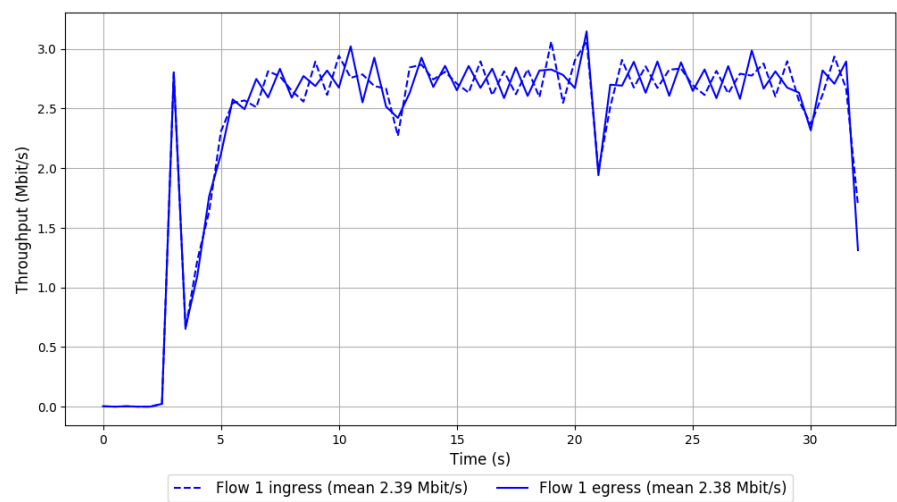```

Run 6: Report of WebRTC media — Data Link



Flow 1 ingress (mean 2.38 Mbit/s)    Flow 1 egress (mean 2.38 Mbit/s)



Flow 1 (95th percentile 23.79 ms)

```
Run 7: Statistics of WebRTC media

Start at: 2017-12-19 21:19:38
End at: 2017-12-19 21:20:08
Local clock offset: -2.462 ms
Remote clock offset: -1.933 ms

Below is generated by plot.py at 2017-12-20 02:10:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 24.344 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 24.344 ms
Loss rate: 0.29%
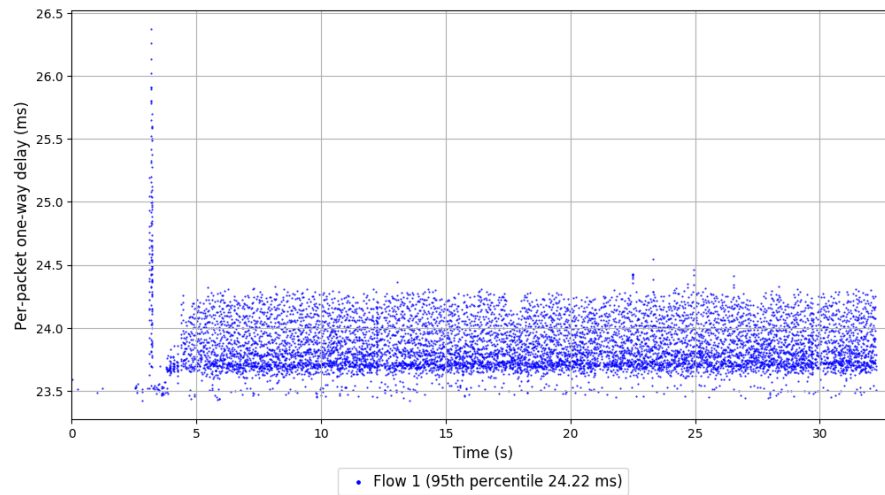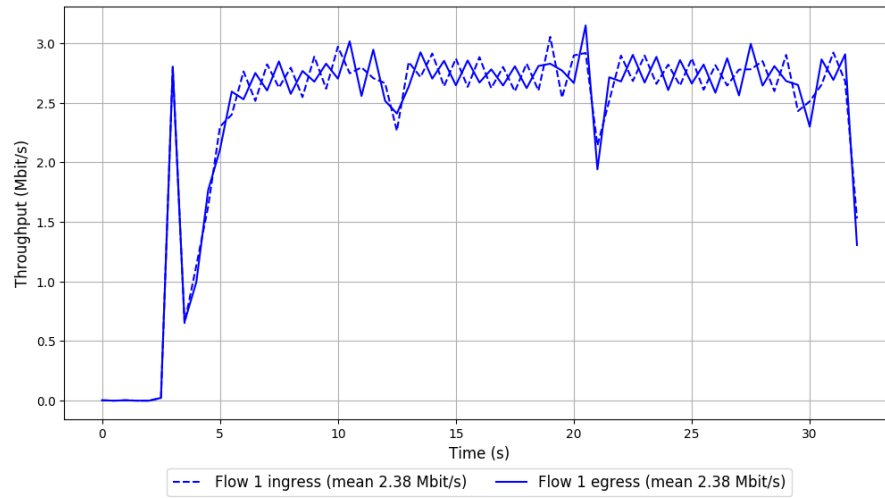```

Run 7: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.38 Mbit/s)   Flow 1 egress (mean 2.38 Mbit/s)

Flow 1 (95th percentile 24.34 ms)

```
Run 8: Statistics of WebRTC media

Start at: 2017-12-19 21:39:42
End at: 2017-12-19 21:40:12
Local clock offset: -3.428 ms
Remote clock offset: -3.691 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 26.236 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 26.236 ms
Loss rate: 0.25%
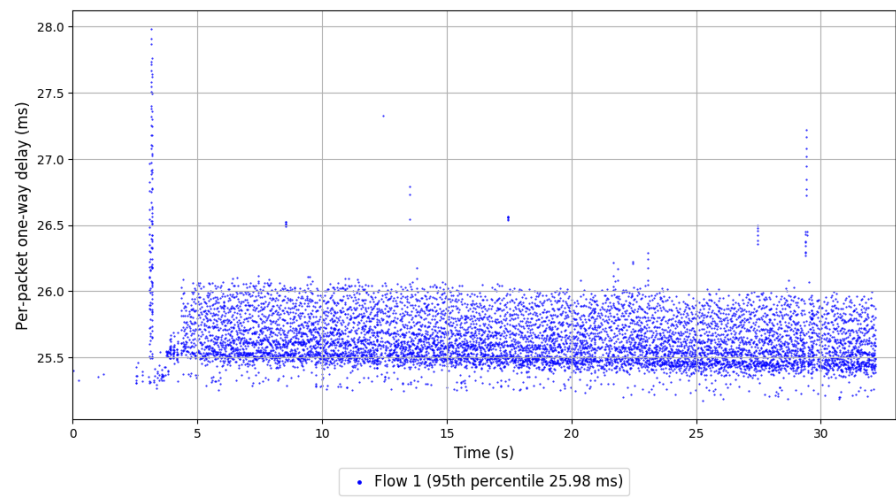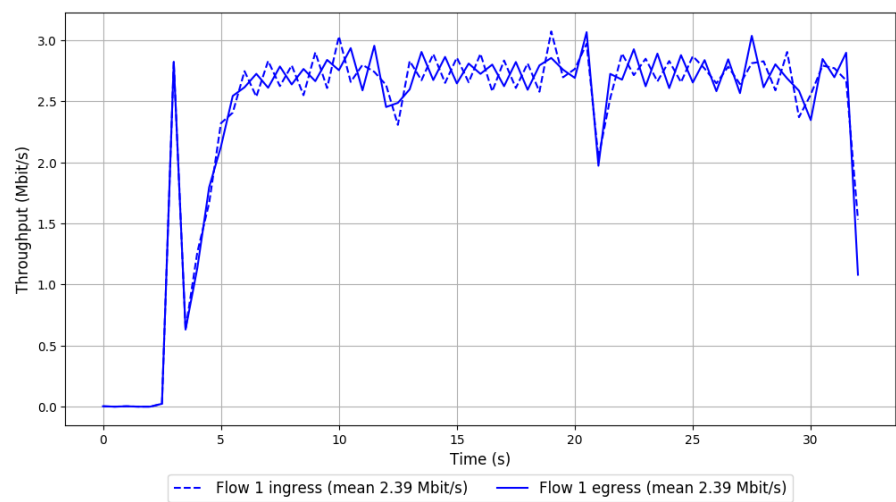```

Run 8: Report of WebRTC media — Data Link

```
Run 9: Statistics of WebRTC media

Start at: 2017-12-19 21:59:47
End at: 2017-12-19 22:00:17
Local clock offset: -3.94 ms
Remote clock offset: -1.912 ms

Below is generated by plot.py at 2017-12-20 02:10:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 24.216 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 24.216 ms
Loss rate: 0.15%
```
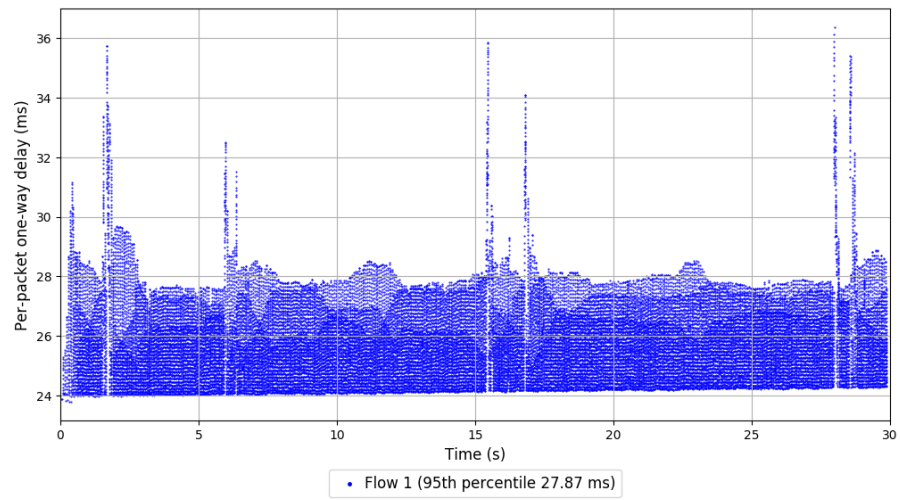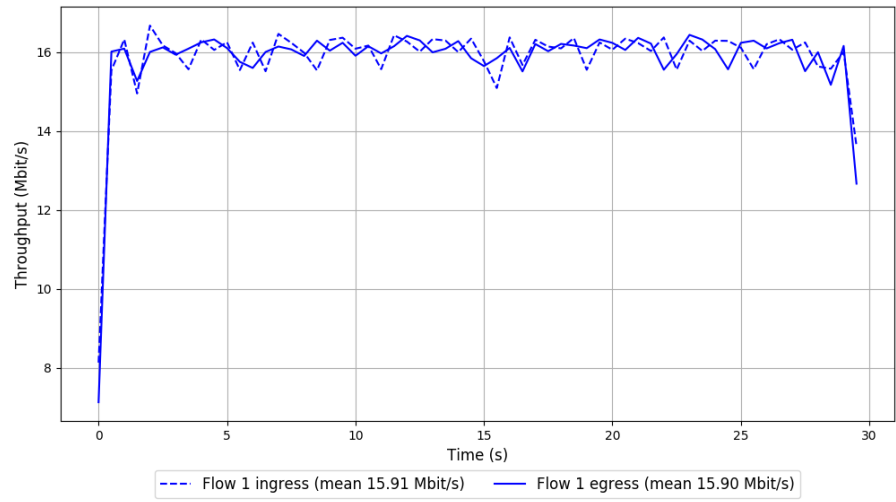
Run 9: Report of WebRTC media — Data Link



Flow 1 ingress (mean 2.38 Mbit/s)    Flow 1 egress (mean 2.38 Mbit/s)



Flow 1 (95th percentile 24.22 ms)

```
Run 10: Statistics of WebRTC media

Start at: 2017-12-19 22:19:37
End at: 2017-12-19 22:20:07
Local clock offset: -3.088 ms
Remote clock offset: -4.853 ms

Below is generated by plot.py at 2017-12-20 02:10:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 25.979 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 25.979 ms
Loss rate: 0.30%
```
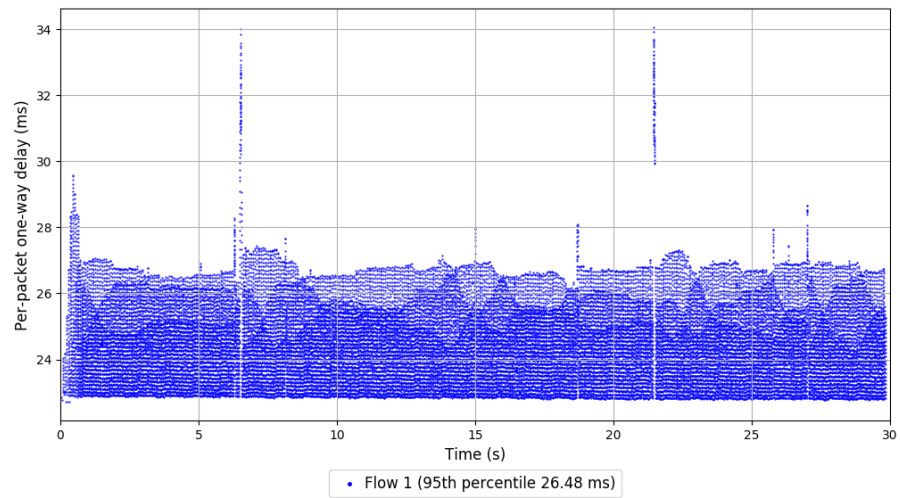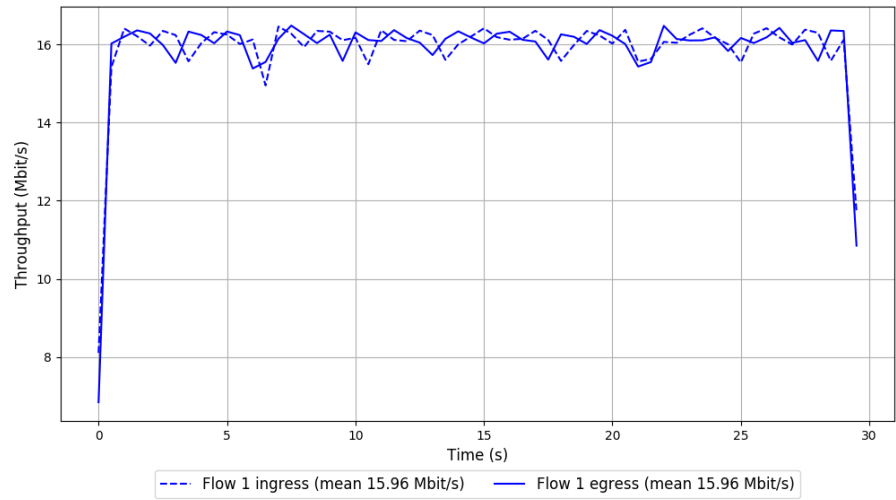
## Run 10: Report of WebRTC media — Data Link

```
Run 1: Statistics of Sprout

Start at: 2017-12-19 19:25:54
End at: 2017-12-19 19:26:24
Local clock offset: -12.678 ms
Remote clock offset: -1.184 ms

# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.90 Mbit/s
95th percentile per-packet one-way delay: 27.872 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 15.90 Mbit/s
95th percentile per-packet one-way delay: 27.872 ms
Loss rate: 0.22%
```

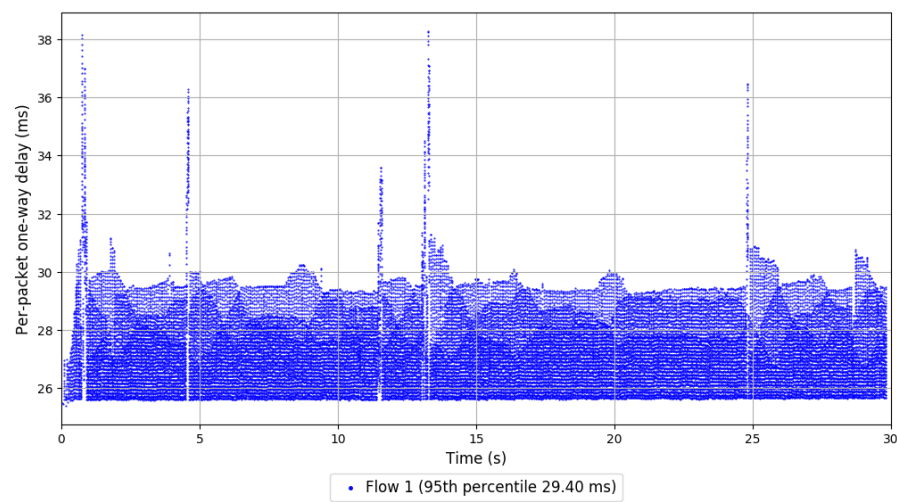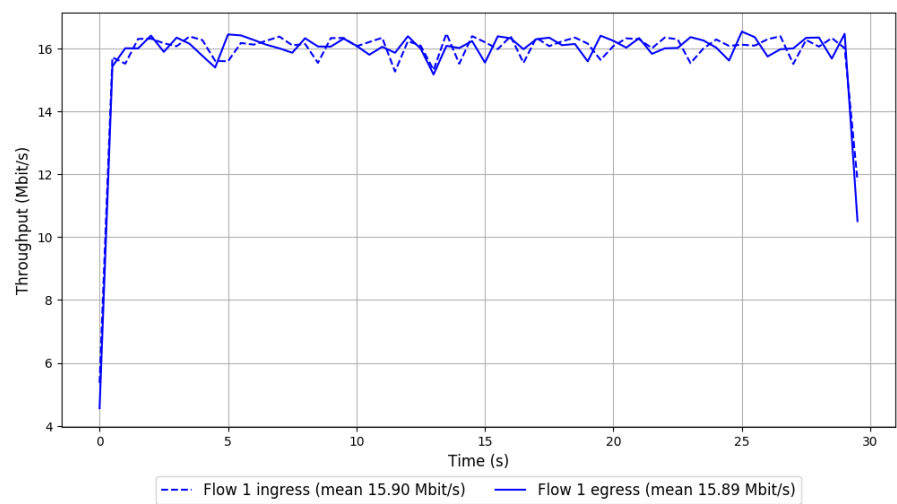Run 1: Report of Sprout — Data Link

Flow 1 ingress (mean 15.91 Mbit/s)   Flow 1 egress (mean 15.90 Mbit/s)

• Flow 1 (95th percentile 27.87 ms)

```
Run 2: Statistics of Sprout

Start at: 2017-12-19 19:45:59
End at: 2017-12-19 19:46:29
Local clock offset: -4.235 ms
Remote clock offset: -0.707 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.96 Mbit/s
95th percentile per-packet one-way delay: 26.482 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 15.96 Mbit/s
95th percentile per-packet one-way delay: 26.482 ms
Loss rate: 0.16%
```

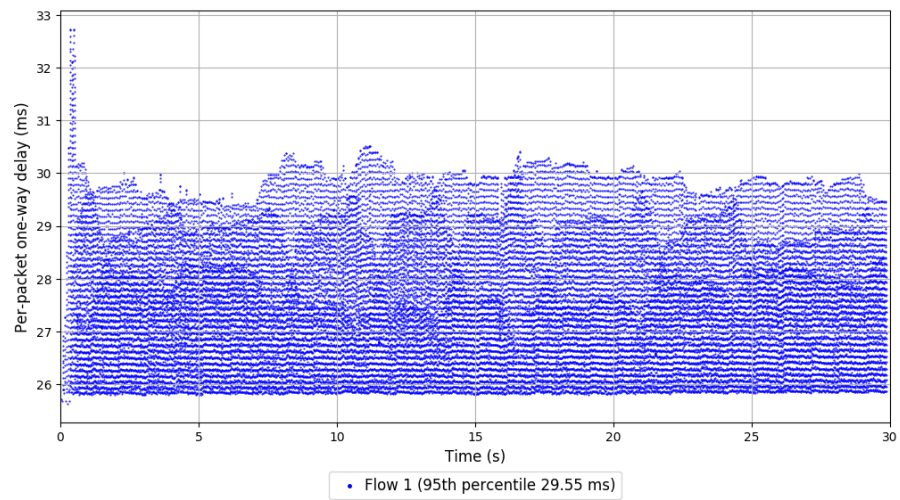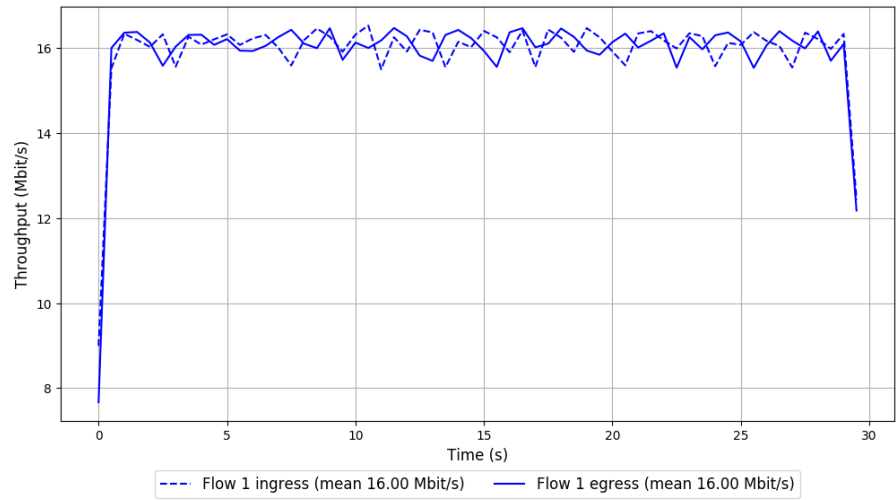Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2017-12-19 20:05:56
End at: 2017-12-19 20:06:26
Local clock offset: -2.749 ms
Remote clock offset: -2.751 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.89 Mbit/s
95th percentile per-packet one-way delay: 29.402 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 15.89 Mbit/s
95th percentile per-packet one-way delay: 29.402 ms
Loss rate: 0.24%
```

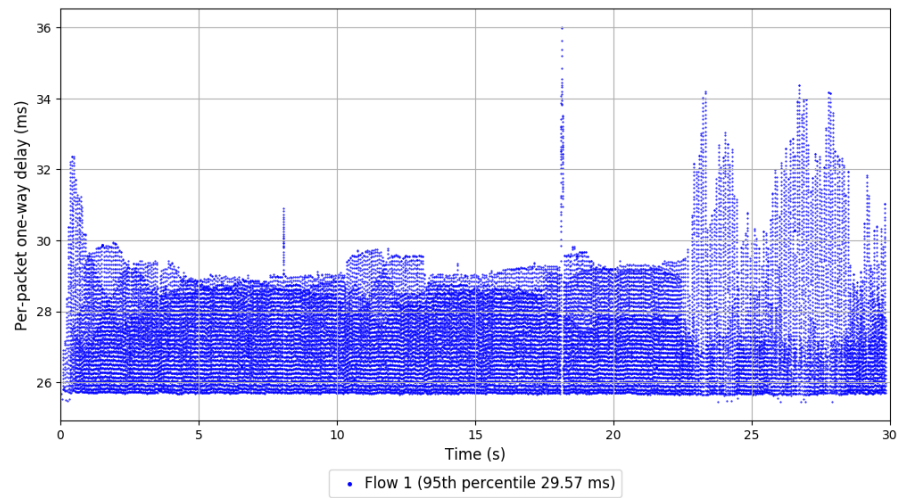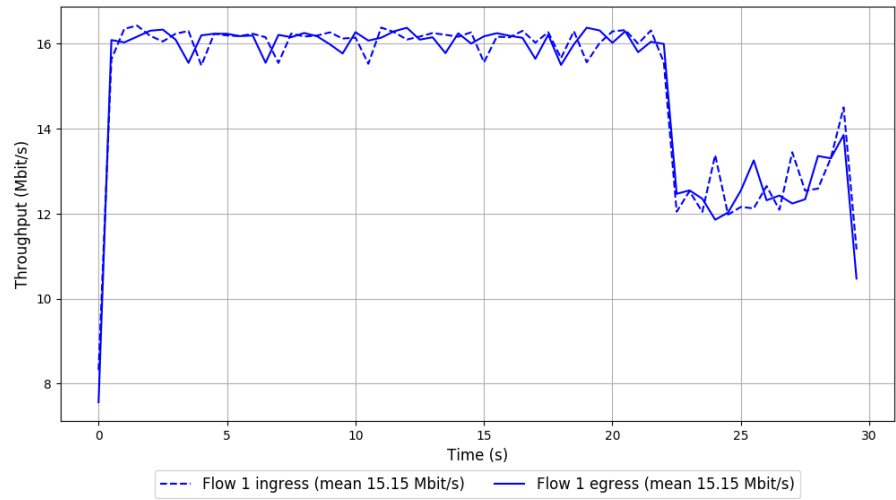Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2017-12-19 20:26:05
End at: 2017-12-19 20:26:35
Local clock offset: -3.176 ms
Remote clock offset: -2.491 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.00 Mbit/s
95th percentile per-packet one-way delay: 29.552 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 16.00 Mbit/s
95th percentile per-packet one-way delay: 29.552 ms
Loss rate: 0.15%
```

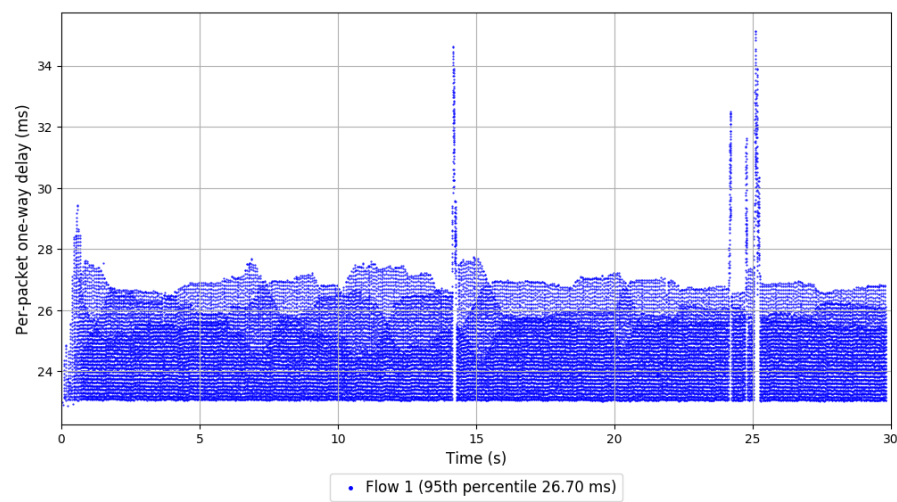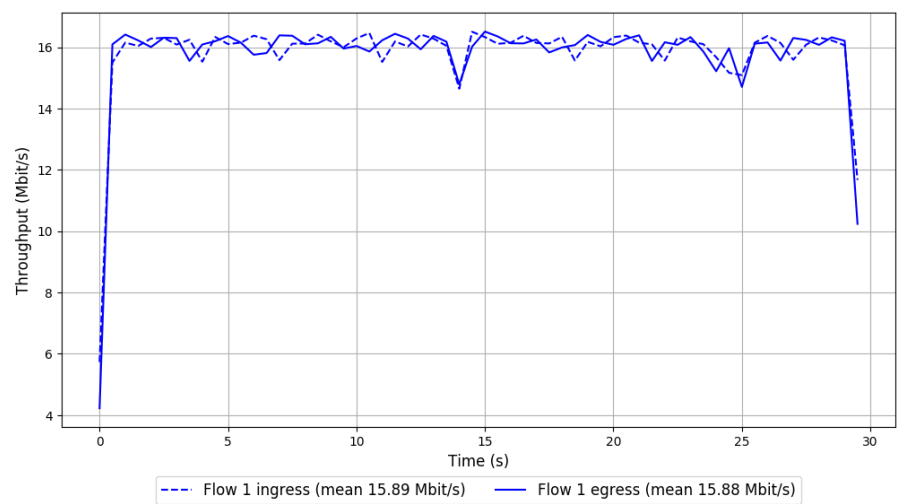Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2017-12-19 20:46:05
End at: 2017-12-19 20:46:35
Local clock offset: -2.552 ms
Remote clock offset: -3.119 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.15 Mbit/s
95th percentile per-packet one-way delay: 29.569 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 15.15 Mbit/s
95th percentile per-packet one-way delay: 29.569 ms
Loss rate: 0.23%
```

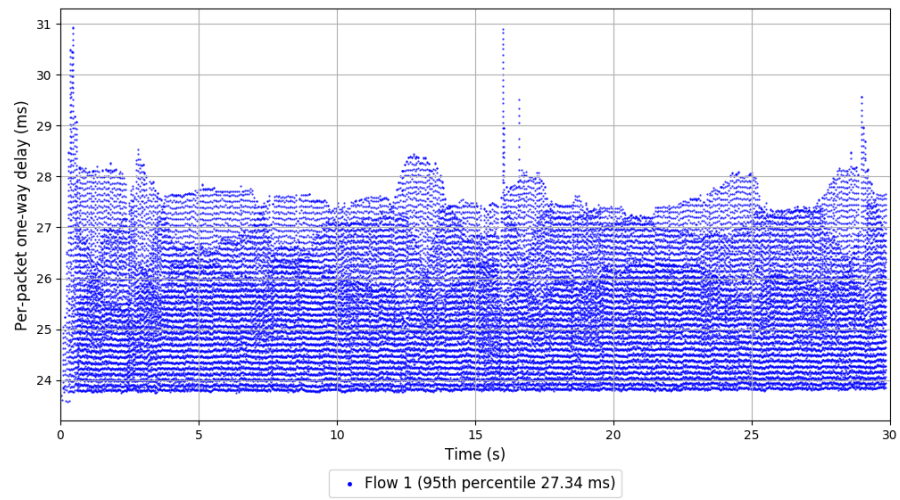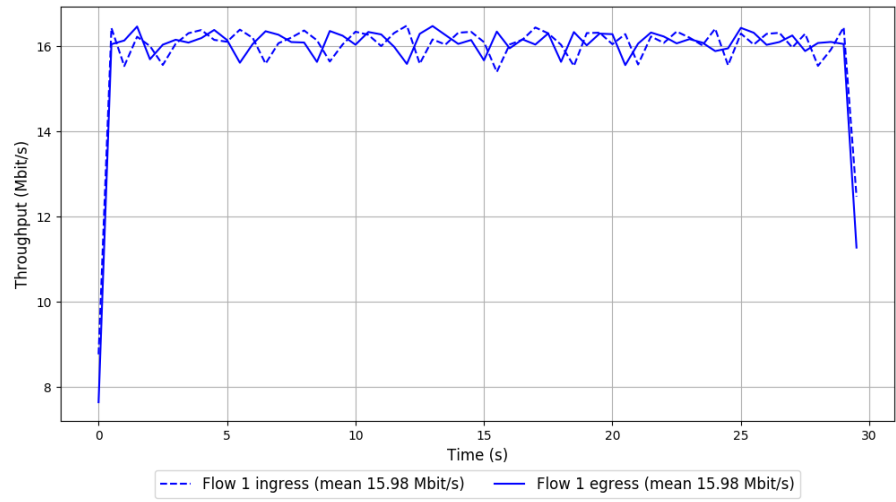Run 5: Report of Sprout — Data Link

```
Run 6: Statistics of Sprout

Start at: 2017-12-19 21:06:09
End at: 2017-12-19 21:06:39
Local clock offset: -2.228 ms
Remote clock offset: -1.166 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.88 Mbit/s
95th percentile per-packet one-way delay: 26.698 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 15.88 Mbit/s
95th percentile per-packet one-way delay: 26.698 ms
Loss rate: 0.24%
```

Run 6: Report of Sprout — Data Link

Flow 1 ingress (mean 15.89 Mbit/s)   Flow 1 egress (mean 15.88 Mbit/s)

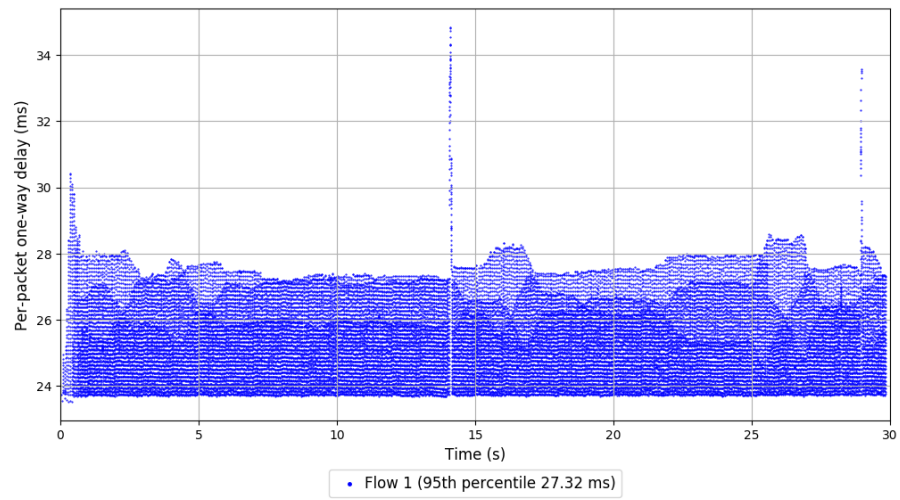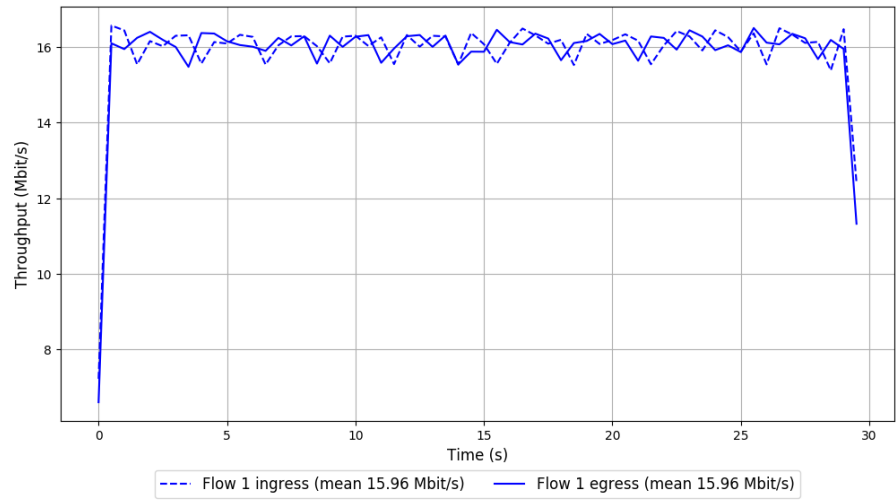Flow 1 (95th percentile 26.70 ms)

```
Run 7: Statistics of Sprout

Start at: 2017-12-19 21:26:20
End at: 2017-12-19 21:26:50
Local clock offset: -2.984 ms
Remote clock offset: -1.84 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.98 Mbit/s
95th percentile per-packet one-way delay: 27.344 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 15.98 Mbit/s
95th percentile per-packet one-way delay: 27.344 ms
Loss rate: 0.20%
```

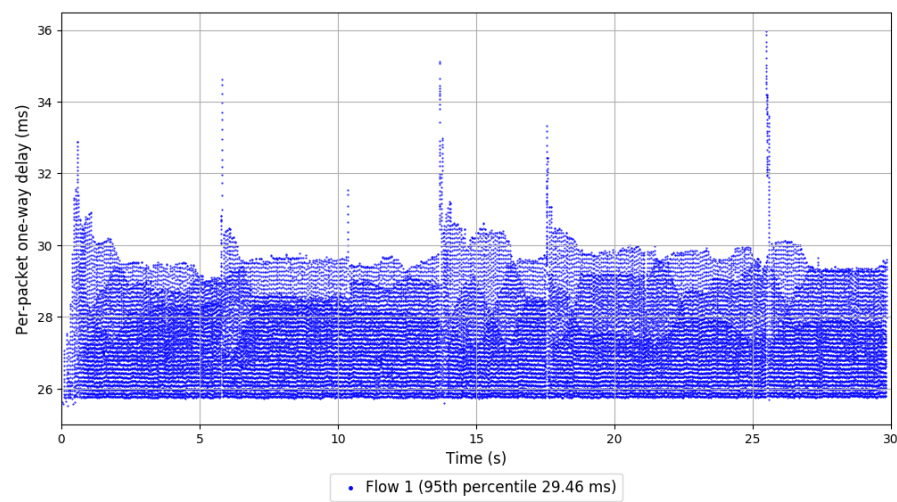# Run 7: Report of Sprout — Data Link

```
Run 8: Statistics of Sprout

Start at: 2017-12-19 21:46:29
End at: 2017-12-19 21:46:59
Local clock offset: -3.348 ms
Remote clock offset: -1.607 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.96 Mbit/s
95th percentile per-packet one-way delay: 27.324 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 15.96 Mbit/s
95th percentile per-packet one-way delay: 27.324 ms
Loss rate: 0.21%
```

Run 8: Report of Sprout — Data Link

Flow 1 ingress (mean 15.96 Mbit/s) ——— Flow 1 egress (mean 15.96 Mbit/s)

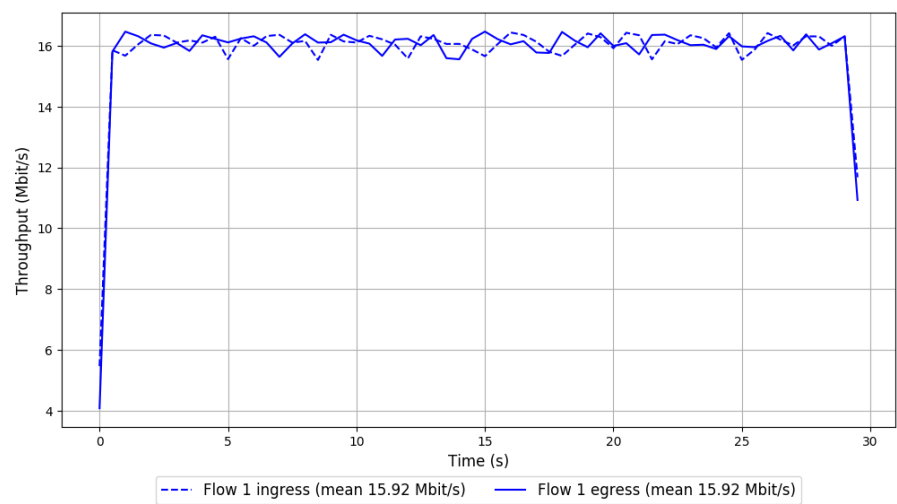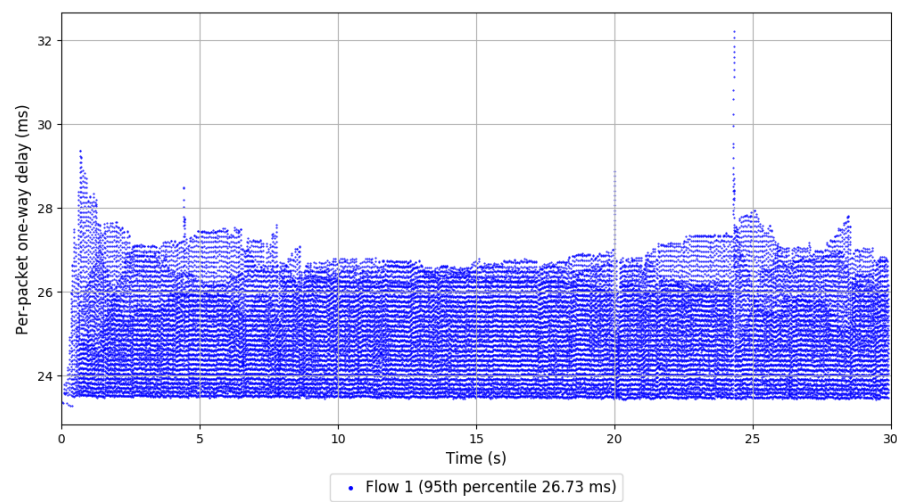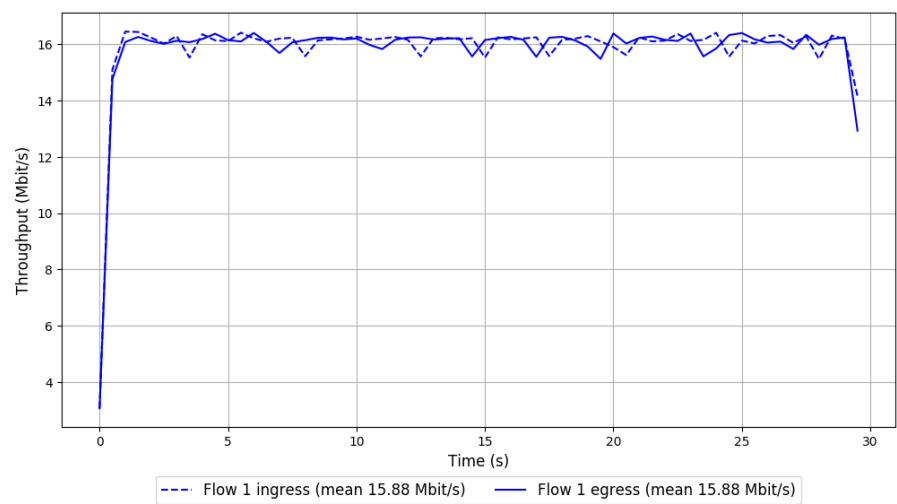• Flow 1 (95th percentile 27.32 ms)

```
Run 9: Statistics of Sprout

Start at: 2017-12-19 22:06:25
End at: 2017-12-19 22:06:55
Local clock offset: -4.326 ms
Remote clock offset: -4.213 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 29.457 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 29.457 ms
Loss rate: 0.21%
```

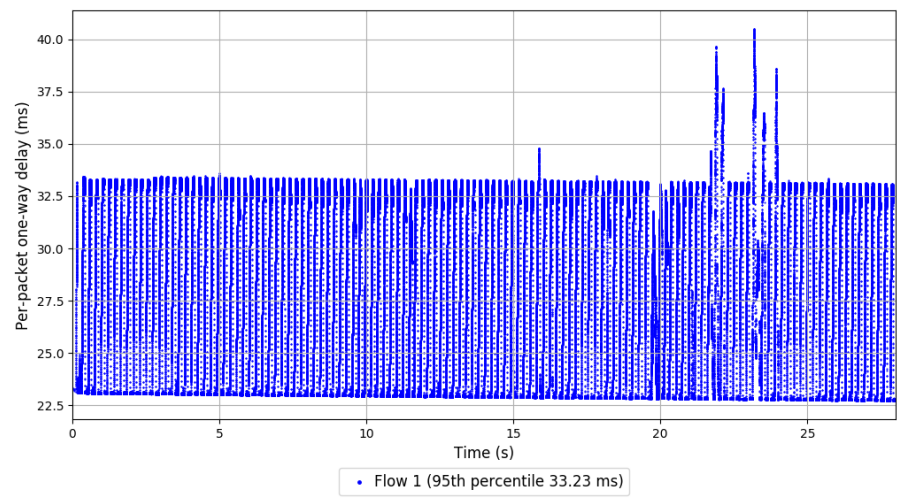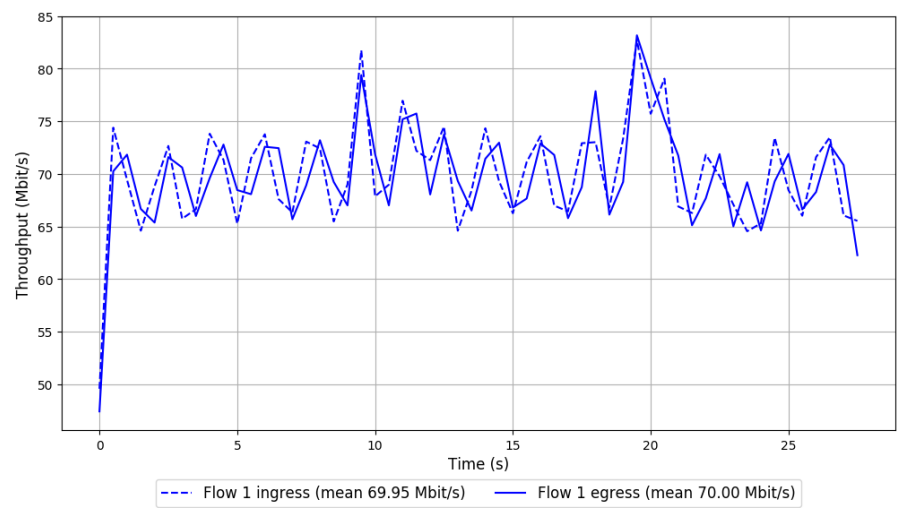Run 9: Report of Sprout — Data Link

Flow 1 ingress (mean 15.92 Mbit/s) ----   Flow 1 egress (mean 15.92 Mbit/s) ——

• Flow 1 (95th percentile 29.46 ms)

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```
Run 10: Statistics of Sprout

Start at: 2017-12-19 22:26:24
End at: 2017-12-19 22:26:54
Local clock offset: -2.209 ms
Remote clock offset: -3.115 ms


# Below is generated by plot.py at 2017-12-20 02:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.88 Mbit/s
95th percentile per-packet one-way delay: 26.726 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 15.88 Mbit/s
95th percentile per-packet one-way delay: 26.726 ms
Loss rate: 0.20%
```

Run 10: Report of Sprout — Data Link

Flow 1 ingress (mean 15.88 Mbit/s) ---- Flow 1 egress (mean 15.88 Mbit/s) ——
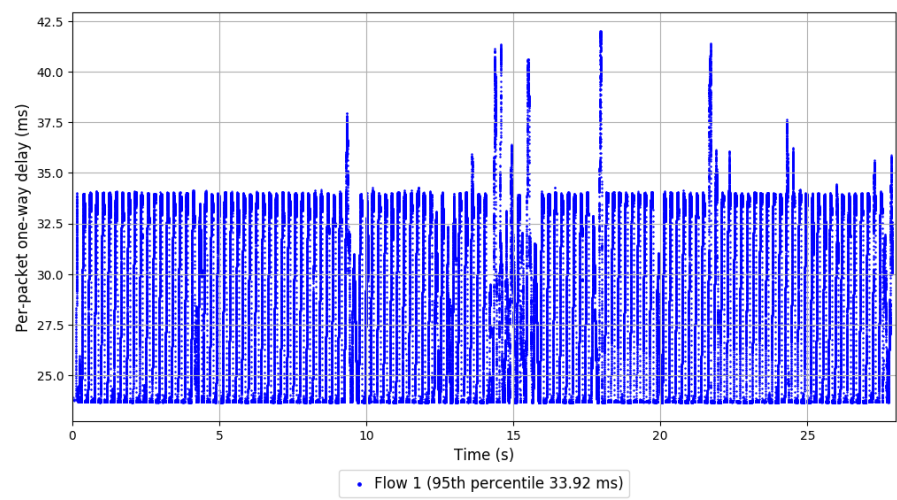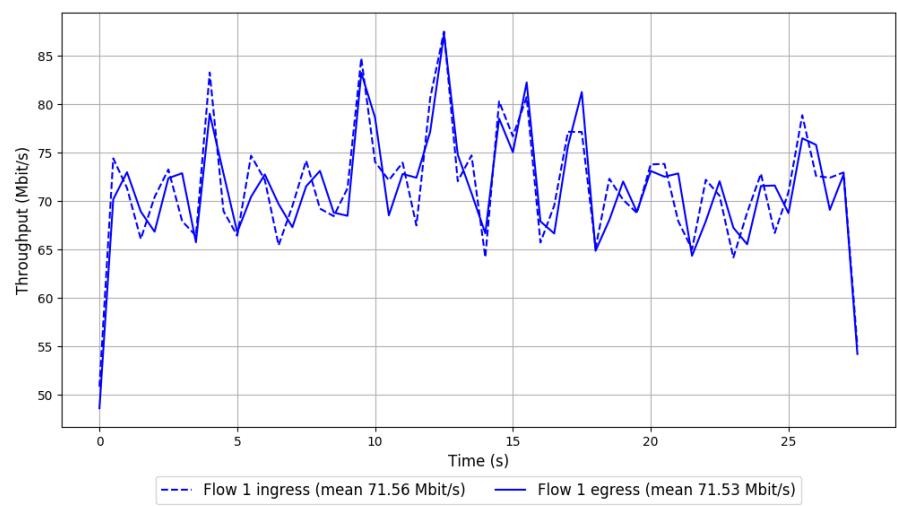

• Flow 1 (95th percentile 26.73 ms)

```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-19 19:32:37
End at: 2017-12-19 19:33:07
Local clock offset: -13.215 ms
Remote clock offset: -1.178 ms


# Below is generated by plot.py at 2017-12-20 02:12:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.00 Mbit/s
95th percentile per-packet one-way delay: 33.228 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 70.00 Mbit/s
95th percentile per-packet one-way delay: 33.228 ms
Loss rate: 0.14%
```
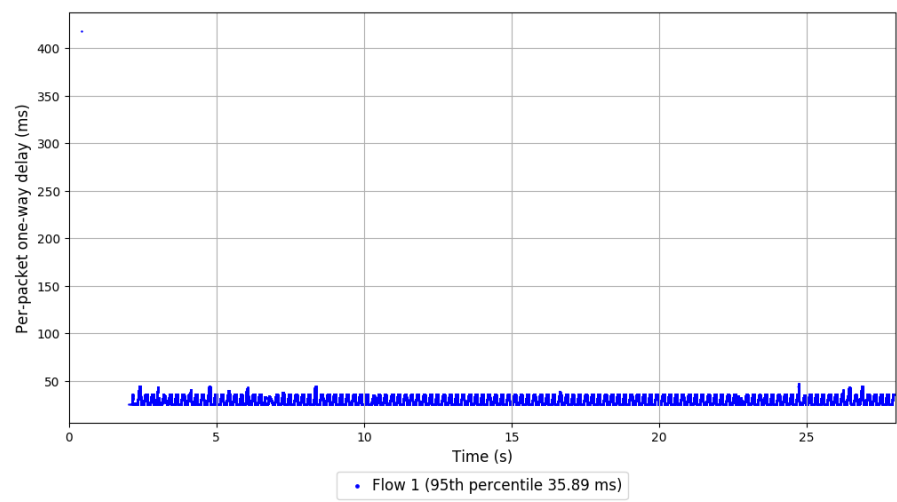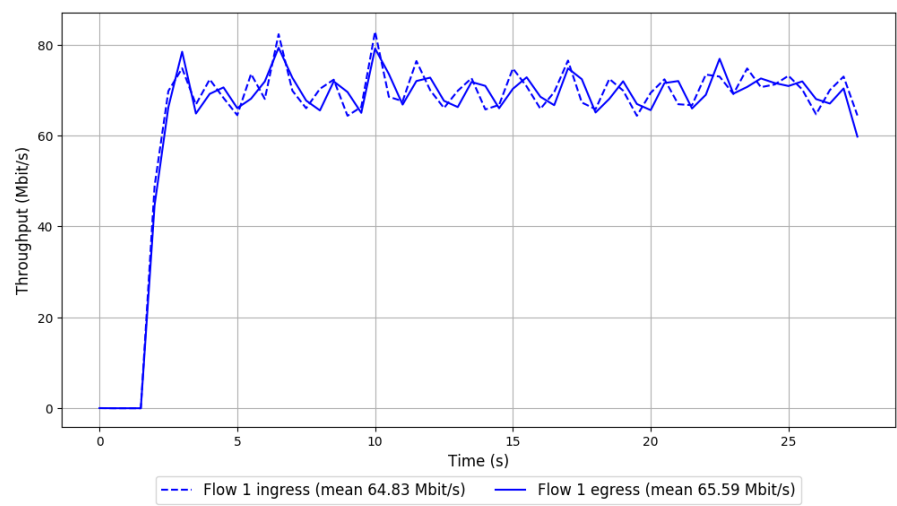
Run 1: Report of TaoVA-100x — Data Link

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```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-19 19:52:37
End at: 2017-12-19 19:53:07
Local clock offset: -2.515 ms
Remote clock offset: -1.303 ms


# Below is generated by plot.py at 2017-12-20 02:12:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.53 Mbit/s
95th percentile per-packet one-way delay: 33.918 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 71.53 Mbit/s
95th percentile per-packet one-way delay: 33.918 ms
Loss rate: 0.24%
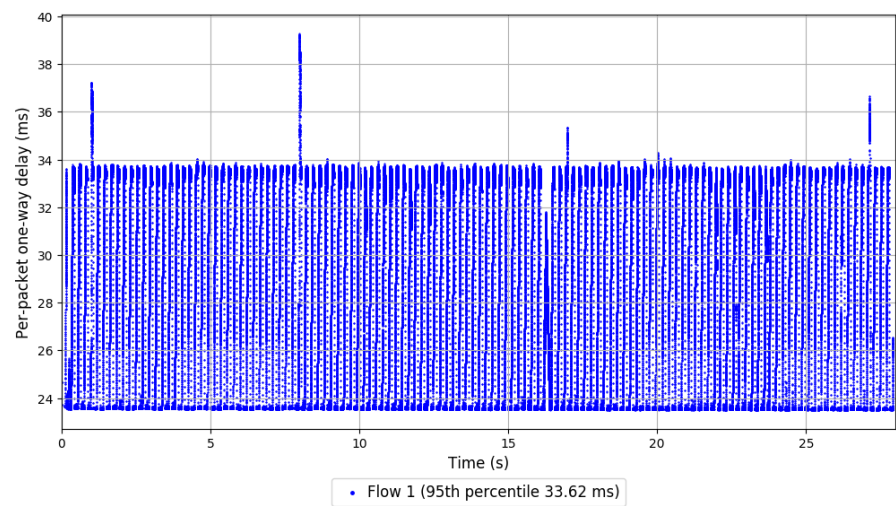```

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

```
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-19 20:12:35
End at: 2017-12-19 20:13:05
Local clock offset: -2.472 ms
Remote clock offset: -2.641 ms


# Below is generated by plot.py at 2017-12-20 02:12:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.59 Mbit/s
95th percentile per-packet one-way delay: 35.893 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 65.59 Mbit/s
95th percentile per-packet one-way delay: 35.893 ms
Loss rate: 0.44%
```

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

Flow 1 ingress (mean 64.83 Mbit/s)   Flow 1 egress (mean 65.59 Mbit/s)

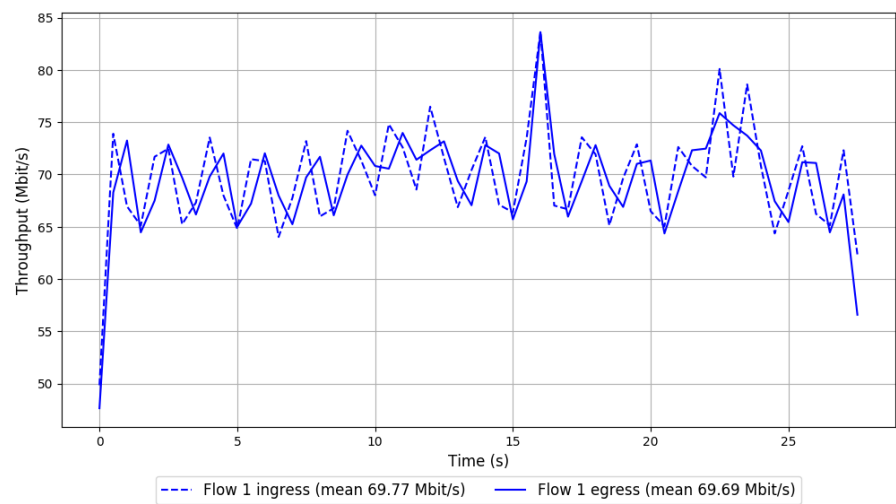

Flow 1 (95th percentile 35.89 ms)

```
Run 4: Statistics of TaoVA-100x

Start at: 2017-12-19 20:32:44
End at: 2017-12-19 20:33:14
Local clock offset: -3.498 ms
Remote clock offset: -0.612 ms


# Below is generated by plot.py at 2017-12-20 02:12:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.69 Mbit/s
95th percentile per-packet one-way delay: 33.616 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 69.69 Mbit/s
95th percentile per-packet one-way delay: 33.616 ms
Loss rate: 0.32%
```
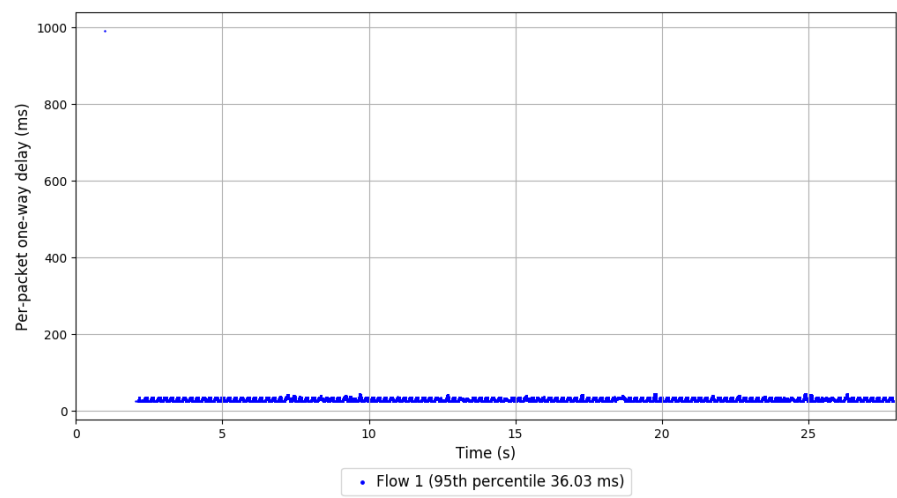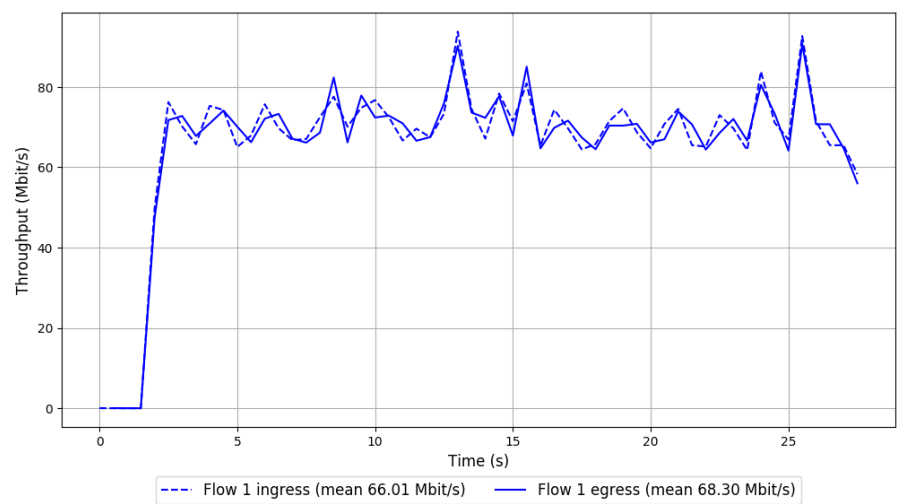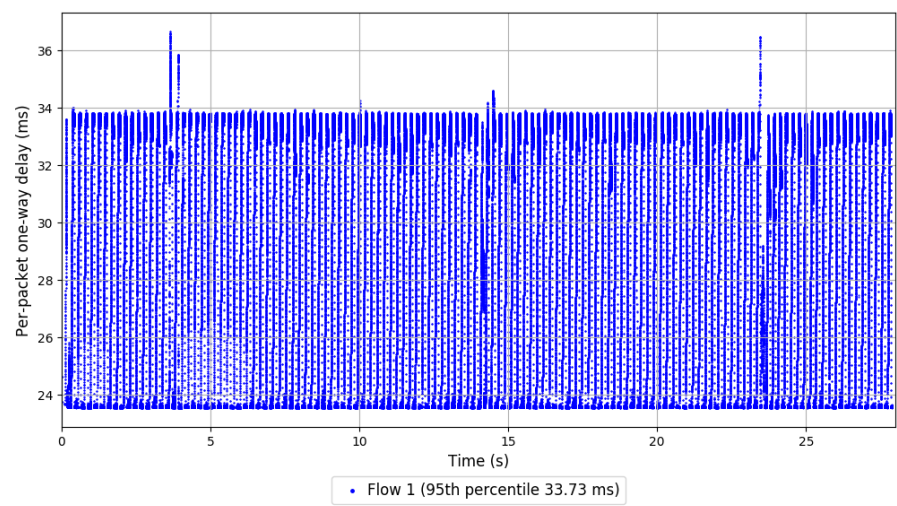
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 69.77 Mbit/s)   Flow 1 egress (mean 69.69 Mbit/s)

Flow 1 (95th percentile 33.62 ms)

```
Run 5: Statistics of TaoVA-100x

Start at: 2017-12-19 20:52:43
End at: 2017-12-19 20:53:13
Local clock offset: -2.779 ms
Remote clock offset: -3.56 ms


# Below is generated by plot.py at 2017-12-20 02:12:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.30 Mbit/s
95th percentile per-packet one-way delay: 36.029 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 68.30 Mbit/s
95th percentile per-packet one-way delay: 36.029 ms
Loss rate: 0.29%
```

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

Flow 1 ingress (mean 66.01 Mbit/s) — — — Flow 1 egress (mean 68.30 Mbit/s)
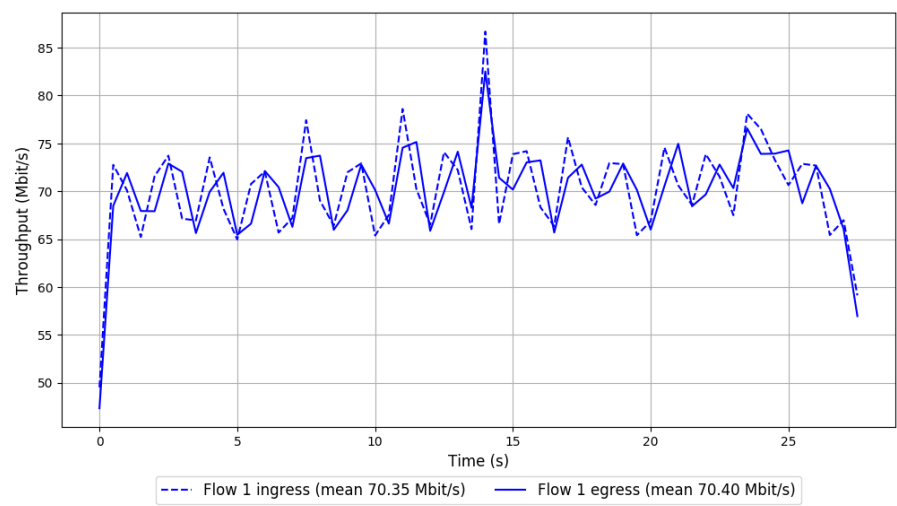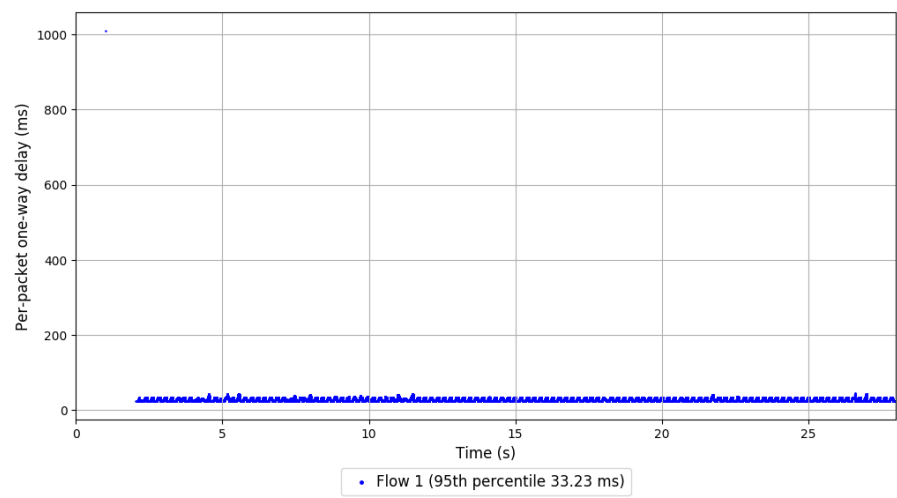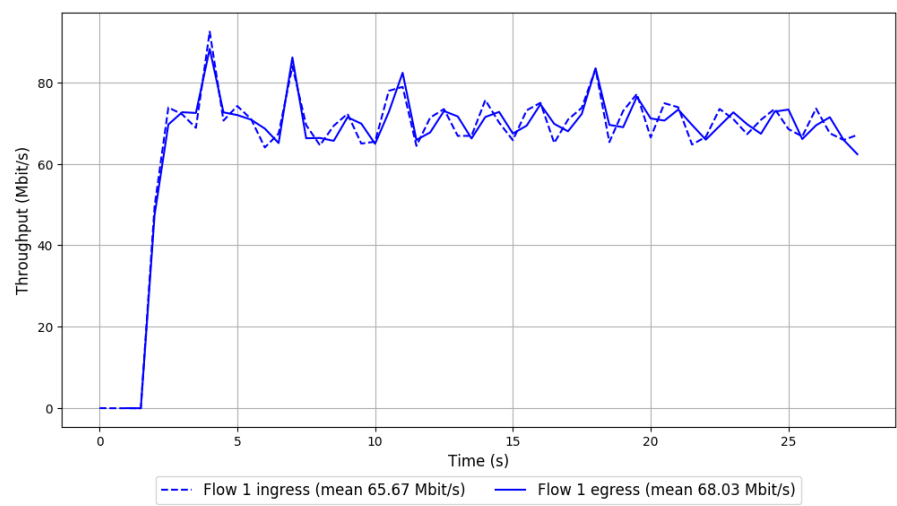

• Flow 1 (95th percentile 36.03 ms)

```
Run 6: Statistics of TaoVA-100x

Start at: 2017-12-19 21:12:58
End at: 2017-12-19 21:13:28
Local clock offset: -2.227 ms
Remote clock offset: -1.864 ms


# Below is generated by plot.py at 2017-12-20 02:12:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.40 Mbit/s
95th percentile per-packet one-way delay: 33.730 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 70.40 Mbit/s
95th percentile per-packet one-way delay: 33.730 ms
Loss rate: 0.12%
```

Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 70.35 Mbit/s)   Flow 1 egress (mean 70.40 Mbit/s)
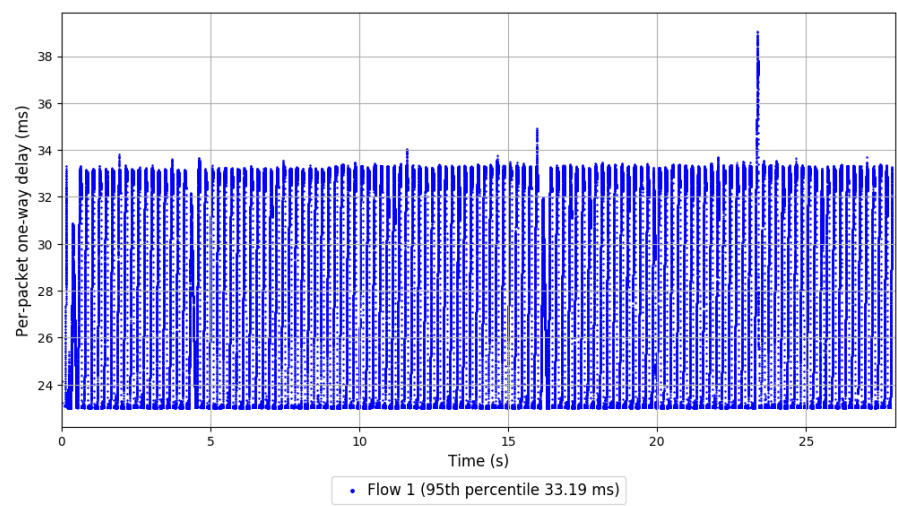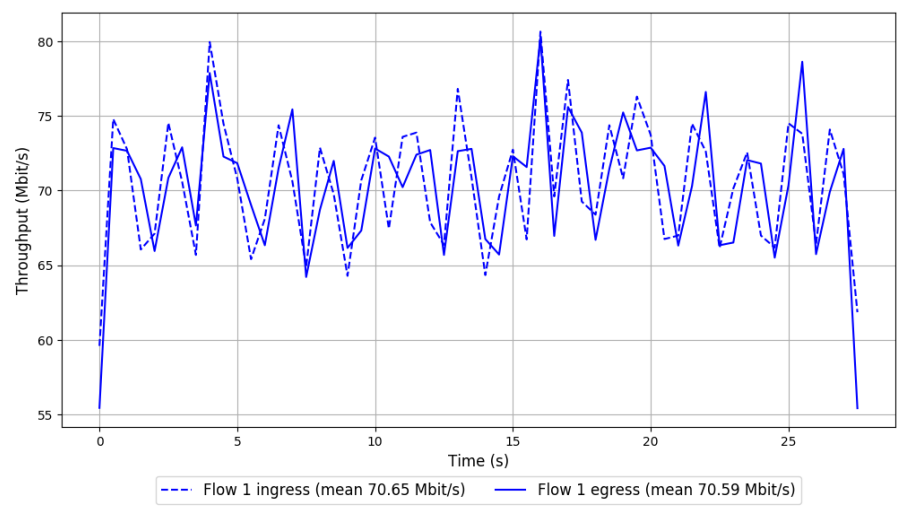

• Flow 1 (95th percentile 33.73 ms)

```
Run 7: Statistics of TaoVA-100x

Start at: 2017-12-19 21:32:58
End at: 2017-12-19 21:33:28
Local clock offset: -3.676 ms
Remote clock offset: -1.205 ms


# Below is generated by plot.py at 2017-12-20 02:12:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.03 Mbit/s
95th percentile per-packet one-way delay: 33.232 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 68.03 Mbit/s
95th percentile per-packet one-way delay: 33.232 ms
Loss rate: 0.25%
```

Run 7: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 65.67 Mbit/s)   Flow 1 egress (mean 68.03 Mbit/s)

Flow 1 (95th percentile 33.23 ms)

```
Run 8: Statistics of TaoVA-100x

Start at: 2017-12-19 21:53:08
End at: 2017-12-19 21:53:38
Local clock offset: -3.683 ms
Remote clock offset: -1.138 ms


# Below is generated by plot.py at 2017-12-20 02:12:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.59 Mbit/s
95th percentile per-packet one-way delay: 33.186 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 70.59 Mbit/s
95th percentile per-packet one-way delay: 33.186 ms
Loss rate: 0.28%
```
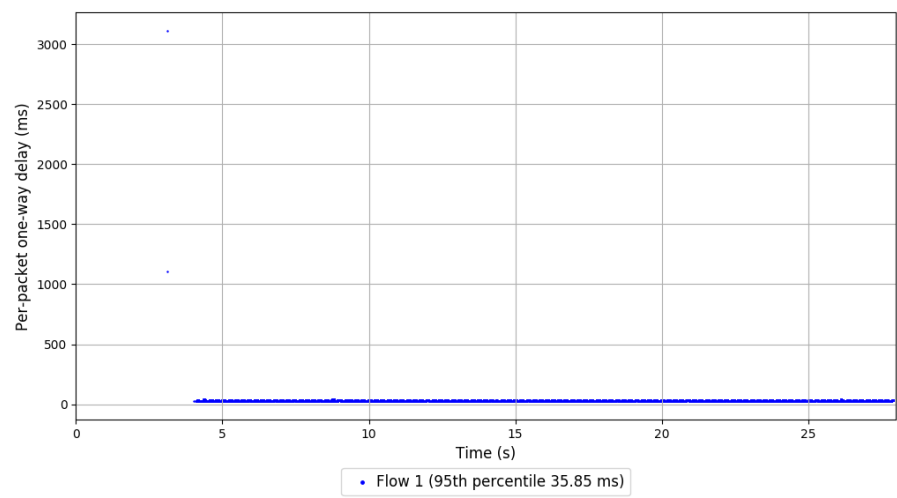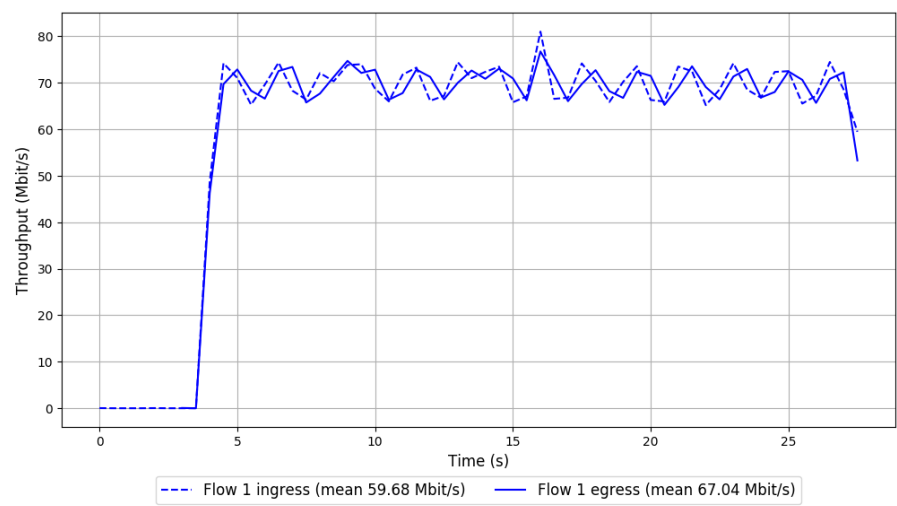
Run 8: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 70.65 Mbit/s) —— Flow 1 egress (mean 70.59 Mbit/s)
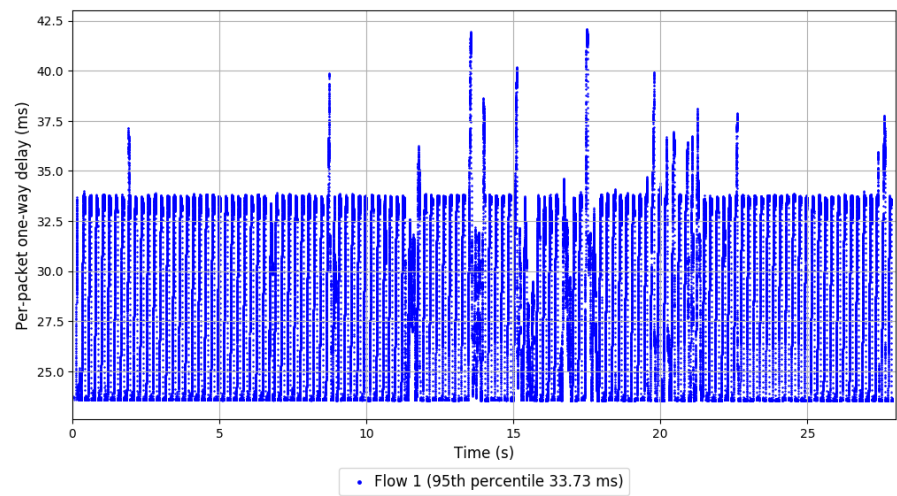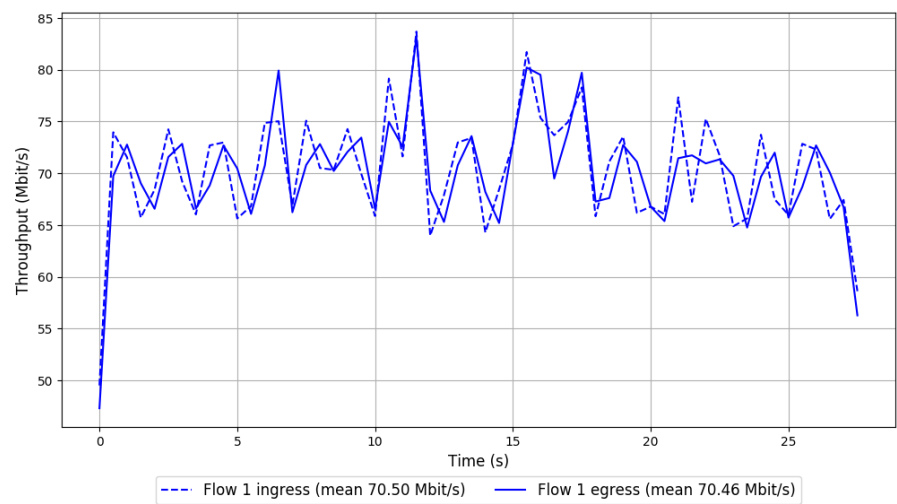

• Flow 1 (95th percentile 33.19 ms)

```
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-19 22:13:00
End at: 2017-12-19 22:13:30
Local clock offset: -3.876 ms
Remote clock offset: -4.58 ms

# Below is generated by plot.py at 2017-12-20 02:13:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.04 Mbit/s
95th percentile per-packet one-way delay: 35.848 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 67.04 Mbit/s
95th percentile per-packet one-way delay: 35.848 ms
Loss rate: 0.29%
```
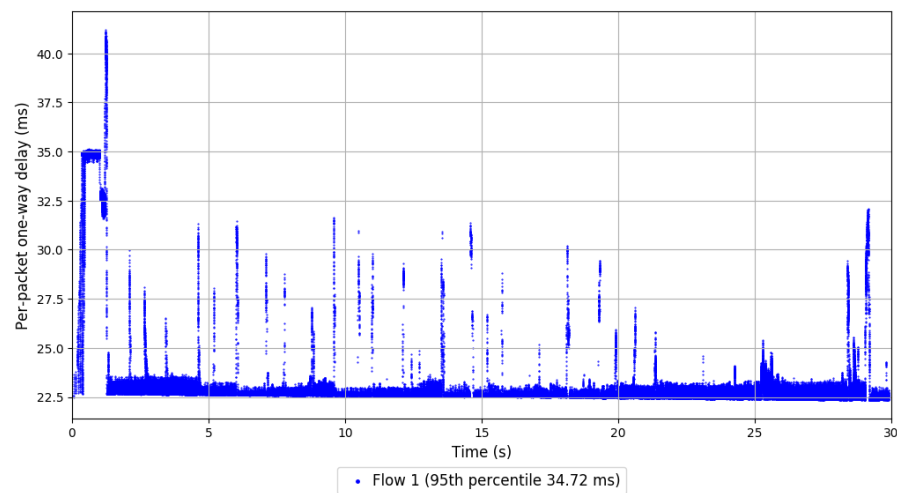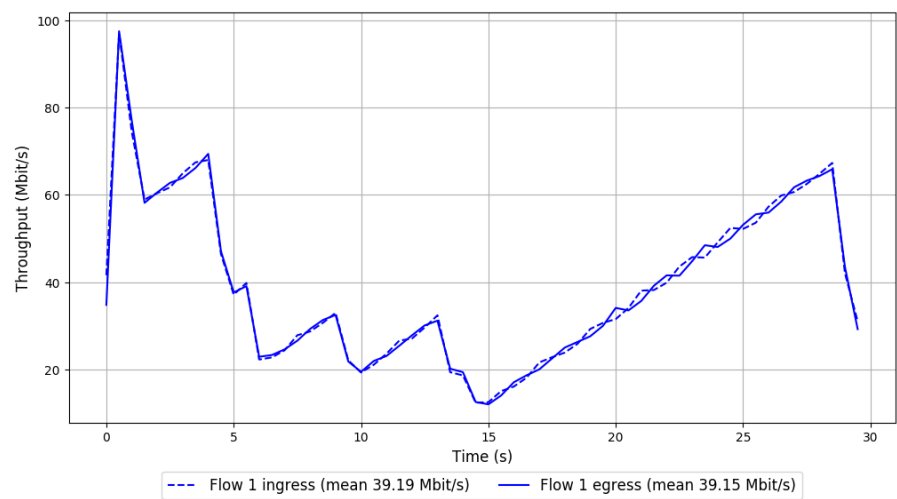
Run 9: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 59.68 Mbit/s)   Flow 1 egress (mean 67.04 Mbit/s)

Flow 1 (95th percentile 35.85 ms)

```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-19 22:33:01
End at: 2017-12-19 22:33:31
Local clock offset: -1.784 ms
Remote clock offset: -3.345 ms


# Below is generated by plot.py at 2017-12-20 02:13:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.46 Mbit/s
95th percentile per-packet one-way delay: 33.725 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 70.46 Mbit/s
95th percentile per-packet one-way delay: 33.725 ms
Loss rate: 0.24%
```

Run 10: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 70.50 Mbit/s) --- Flow 1 egress (mean 70.46 Mbit/s)

Flow 1 (95th percentile 33.73 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2017-12-19 19:21:41
End at: 2017-12-19 19:22:11
Local clock offset: -13.529 ms
Remote clock offset: -0.787 ms


# Below is generated by plot.py at 2017-12-20 02:13:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.15 Mbit/s
95th percentile per-packet one-way delay: 34.719 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 39.15 Mbit/s
95th percentile per-packet one-way delay: 34.719 ms
Loss rate: 0.28%
```
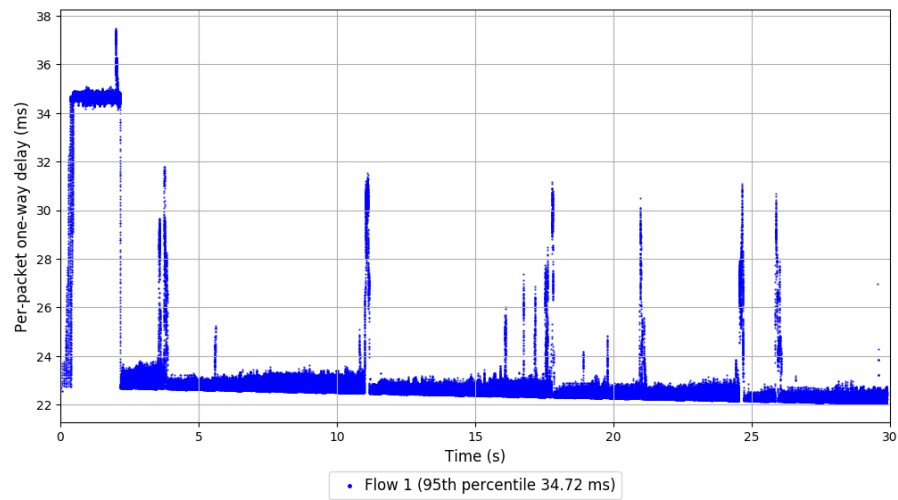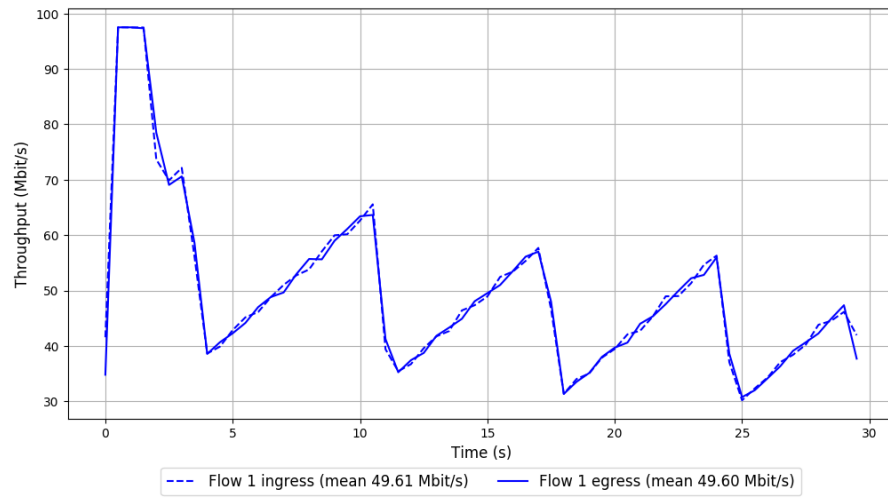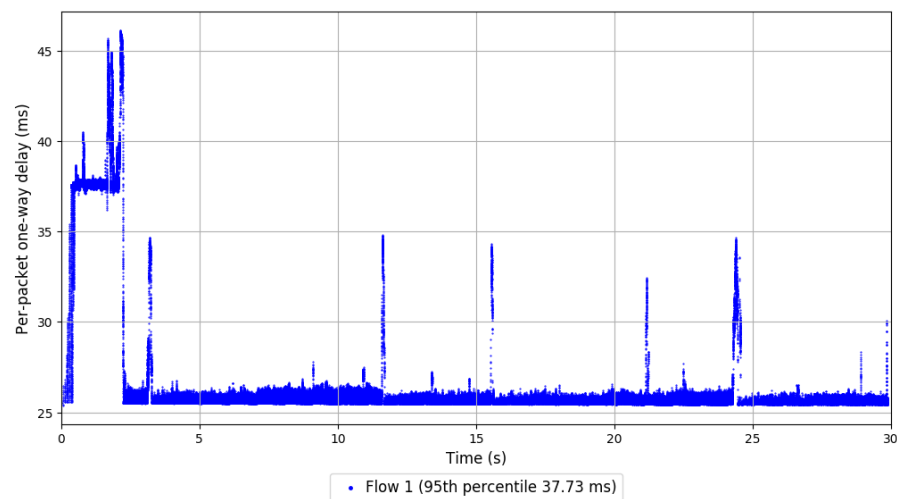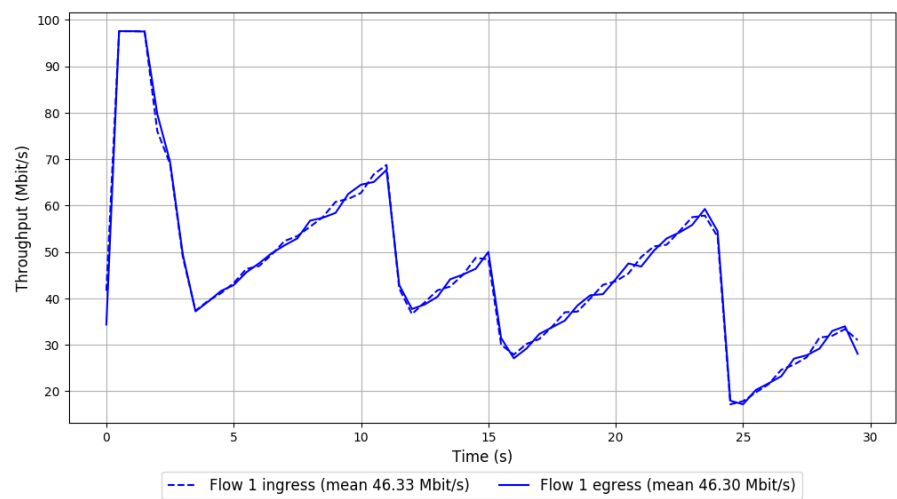
Run 1: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 39.19 Mbit/s)　　Flow 1 egress (mean 39.15 Mbit/s)

Flow 1 (95th percentile 34.72 ms)

```
Run 2: Statistics of TCP Vegas

Start at: 2017-12-19 19:41:52
End at: 2017-12-19 19:42:22
Local clock offset: -8.163 ms
Remote clock offset: -1.26 ms


# Below is generated by plot.py at 2017-12-20 02:13:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.60 Mbit/s
95th percentile per-packet one-way delay: 34.718 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 49.60 Mbit/s
95th percentile per-packet one-way delay: 34.718 ms
Loss rate: 0.20%
```
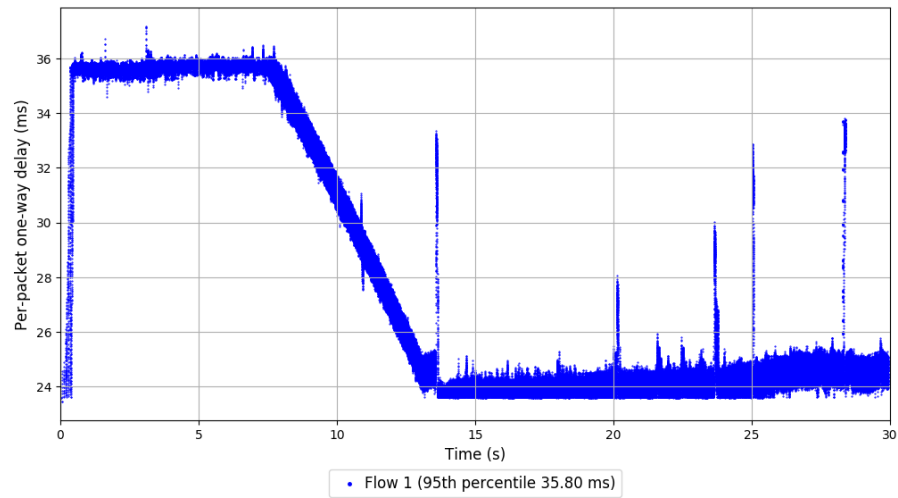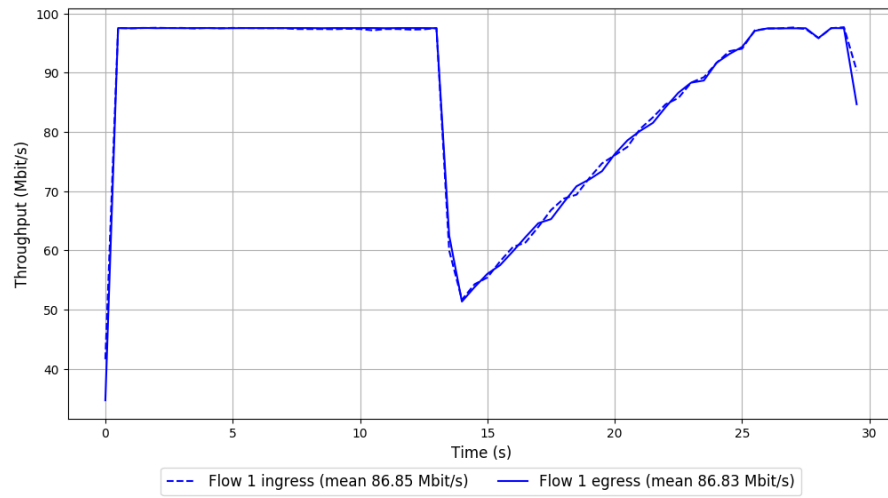
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2017-12-19 20:01:52
End at: 2017-12-19 20:02:22
Local clock offset: -3.246 ms
Remote clock offset: -2.992 ms


# Below is generated by plot.py at 2017-12-20 02:13:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.30 Mbit/s
95th percentile per-packet one-way delay: 37.729 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 46.30 Mbit/s
95th percentile per-packet one-way delay: 37.729 ms
Loss rate: 0.24%
```

Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 46.33 Mbit/s) --- Flow 1 egress (mean 46.30 Mbit/s)

Flow 1 (95th percentile 37.73 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2017-12-19 20:21:56
End at: 2017-12-19 20:22:26
Local clock offset: -3.109 ms
Remote clock offset: -0.339 ms


# Below is generated by plot.py at 2017-12-20 02:13:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.83 Mbit/s
95th percentile per-packet one-way delay: 35.802 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 86.83 Mbit/s
95th percentile per-packet one-way delay: 35.802 ms
Loss rate: 0.21%
```
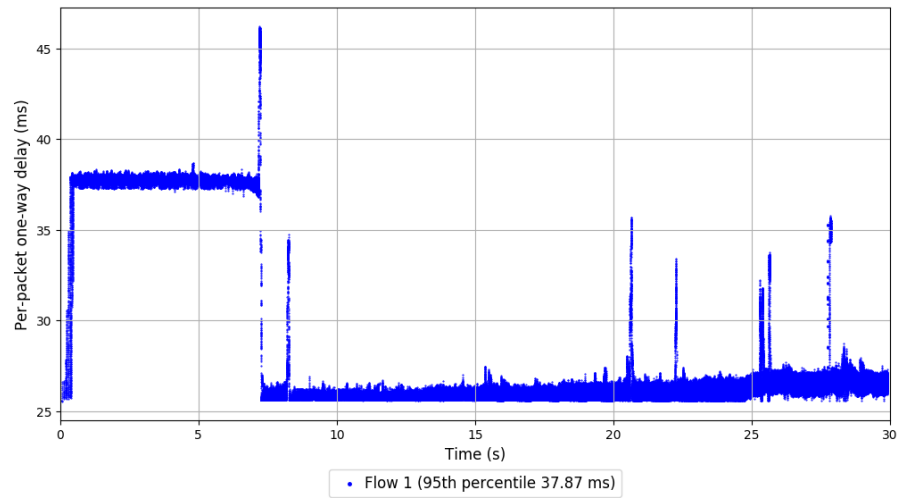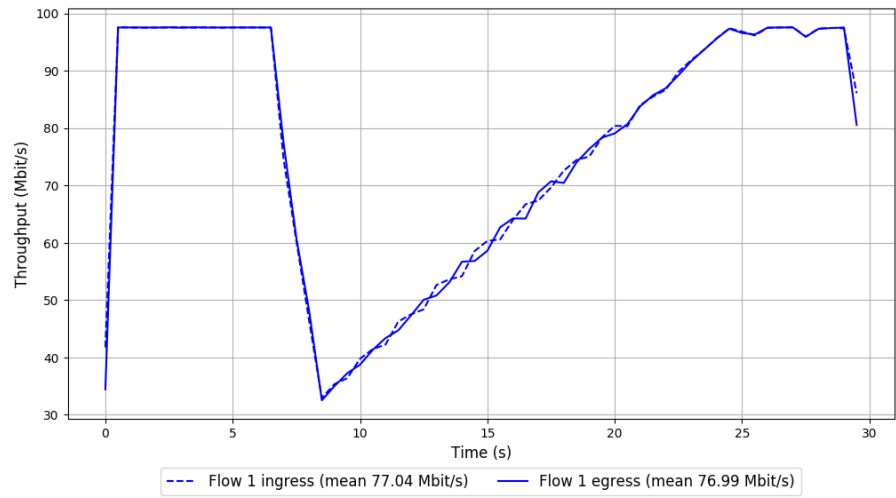
Run 4: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 86.85 Mbit/s) --- Flow 1 egress (mean 86.83 Mbit/s)

• Flow 1 (95th percentile 35.80 ms)

```
Run 5: Statistics of TCP Vegas

Start at: 2017-12-19 20:42:01
End at: 2017-12-19 20:42:31
Local clock offset: -2.852 ms
Remote clock offset: -2.97 ms


# Below is generated by plot.py at 2017-12-20 02:13:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.99 Mbit/s
95th percentile per-packet one-way delay: 37.874 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 76.99 Mbit/s
95th percentile per-packet one-way delay: 37.874 ms
Loss rate: 0.25%
```
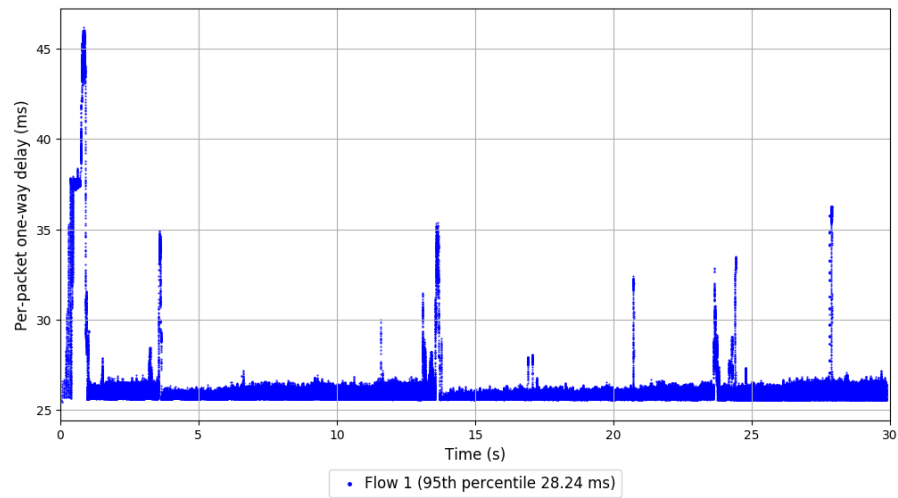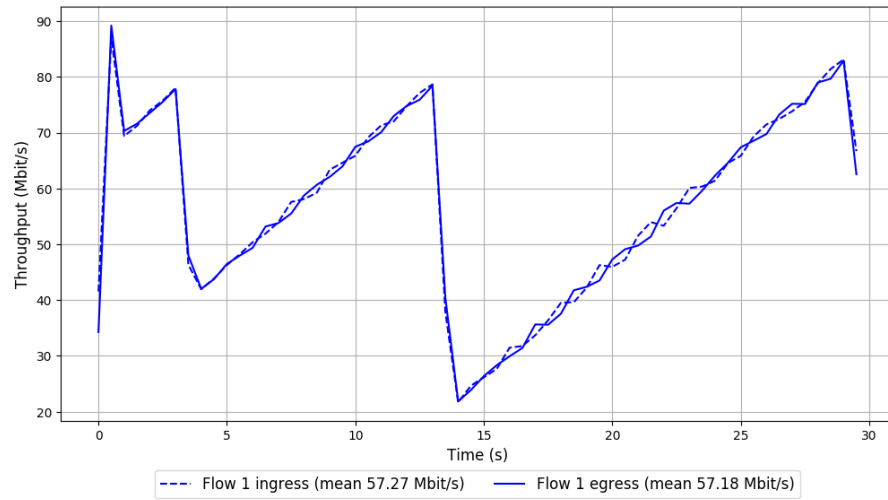
Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 77.04 Mbit/s) --- Flow 1 egress (mean 76.99 Mbit/s)

Flow 1 (95th percentile 37.87 ms)

```
Run 6: Statistics of TCP Vegas

Start at: 2017-12-19 21:02:00
End at: 2017-12-19 21:02:30
Local clock offset: -2.736 ms
Remote clock offset: -3.83 ms


# Below is generated by plot.py at 2017-12-20 02:13:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.18 Mbit/s
95th percentile per-packet one-way delay: 28.244 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 57.18 Mbit/s
95th percentile per-packet one-way delay: 28.244 ms
Loss rate: 0.33%
```
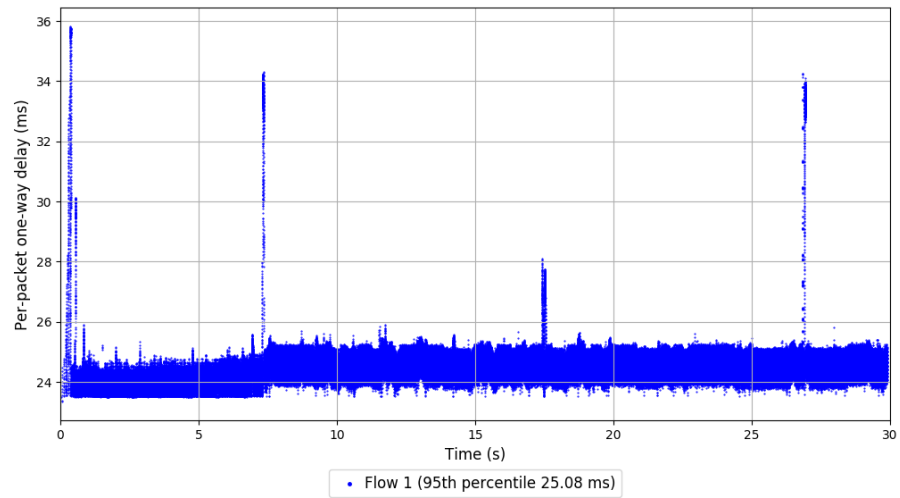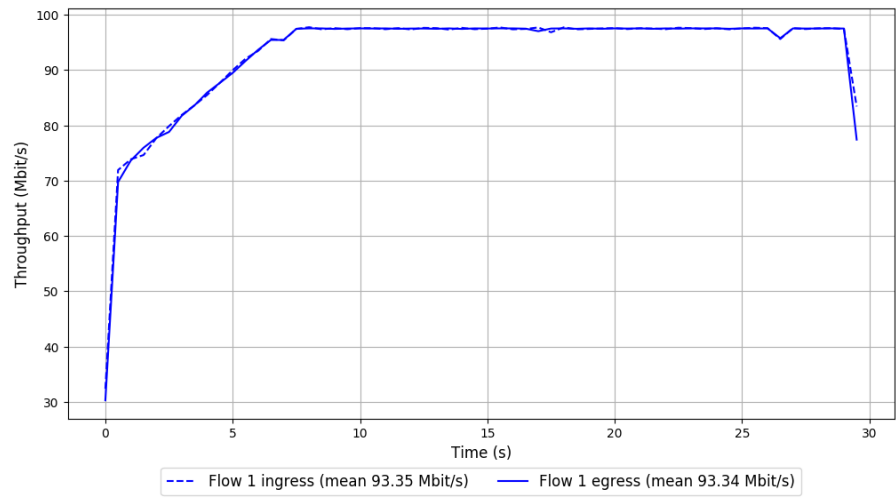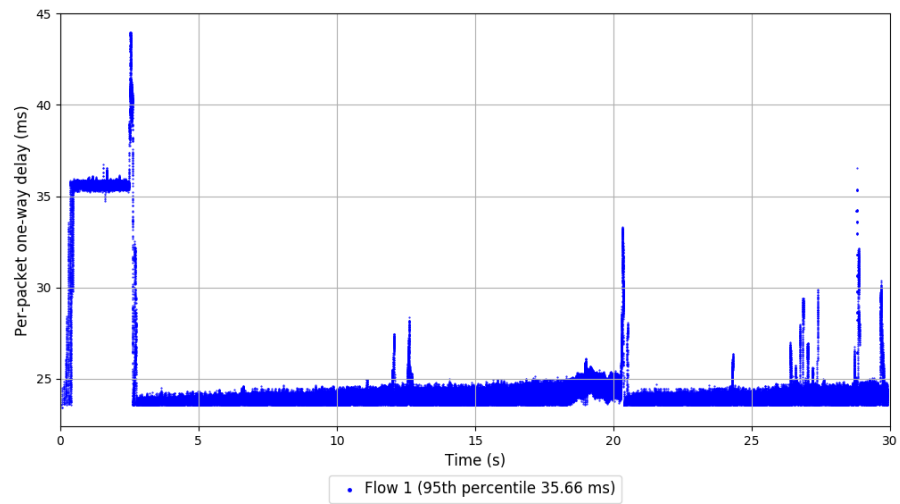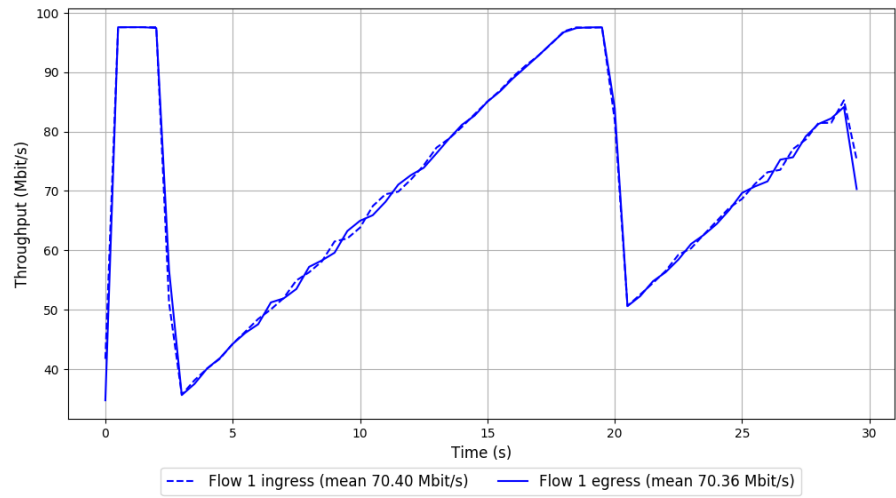
Run 6: Report of TCP Vegas — Data Link

195

```
Run 7: Statistics of TCP Vegas

Start at: 2017-12-19 21:22:14
End at: 2017-12-19 21:22:44
Local clock offset: -2.735 ms
Remote clock offset: -1.8 ms


# Below is generated by plot.py at 2017-12-20 02:14:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 25.079 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 25.079 ms
Loss rate: 0.19%
```
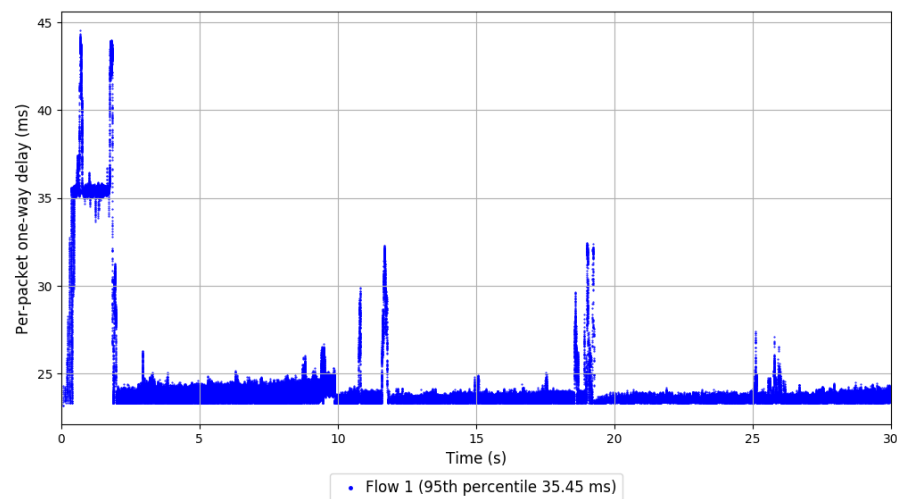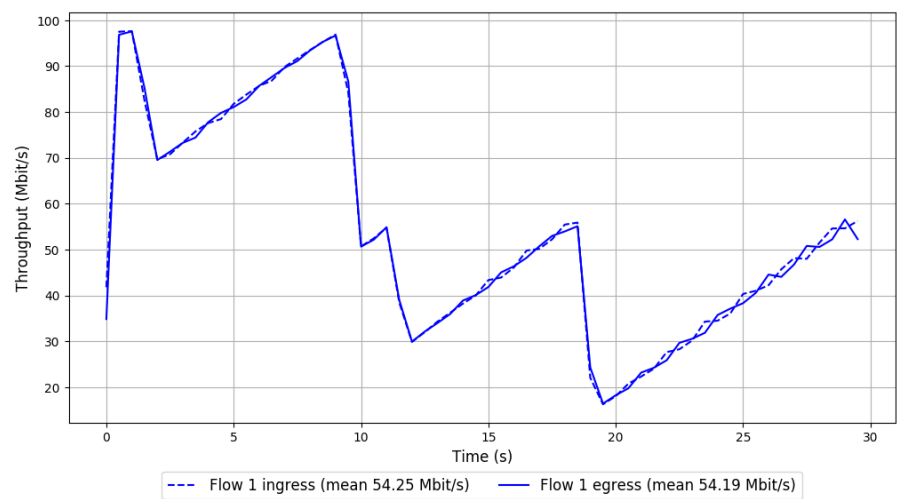
Run 7: Report of TCP Vegas — Data Link

```
Run 8: Statistics of TCP Vegas

Start at: 2017-12-19 21:42:21
End at: 2017-12-19 21:42:51
Local clock offset: -3.297 ms
Remote clock offset: -1.546 ms


# Below is generated by plot.py at 2017-12-20 02:14:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.36 Mbit/s
95th percentile per-packet one-way delay: 35.663 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 70.36 Mbit/s
95th percentile per-packet one-way delay: 35.663 ms
Loss rate: 0.23%
```

Run 8: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 70.40 Mbit/s) Flow 1 egress (mean 70.36 Mbit/s)
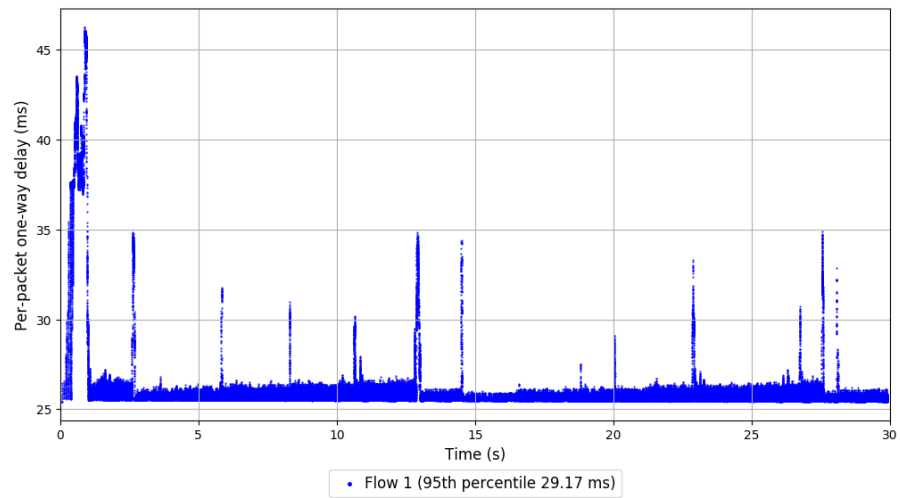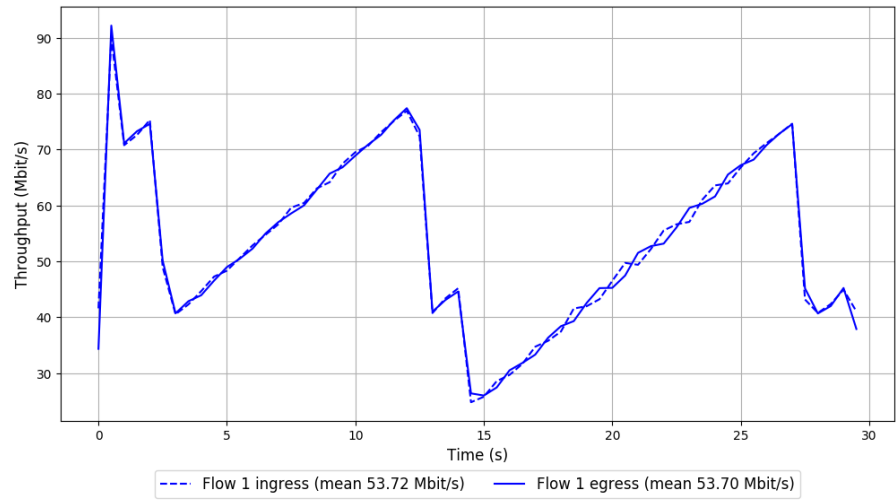

Flow 1 (95th percentile 35.66 ms)

199

```
Run 9: Statistics of TCP Vegas

Start at: 2017-12-19 22:02:22
End at: 2017-12-19 22:02:52
Local clock offset: -4.042 ms
Remote clock offset: -1.611 ms


# Below is generated by plot.py at 2017-12-20 02:14:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.19 Mbit/s
95th percentile per-packet one-way delay: 35.445 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 54.19 Mbit/s
95th percentile per-packet one-way delay: 35.445 ms
Loss rate: 0.28%
```
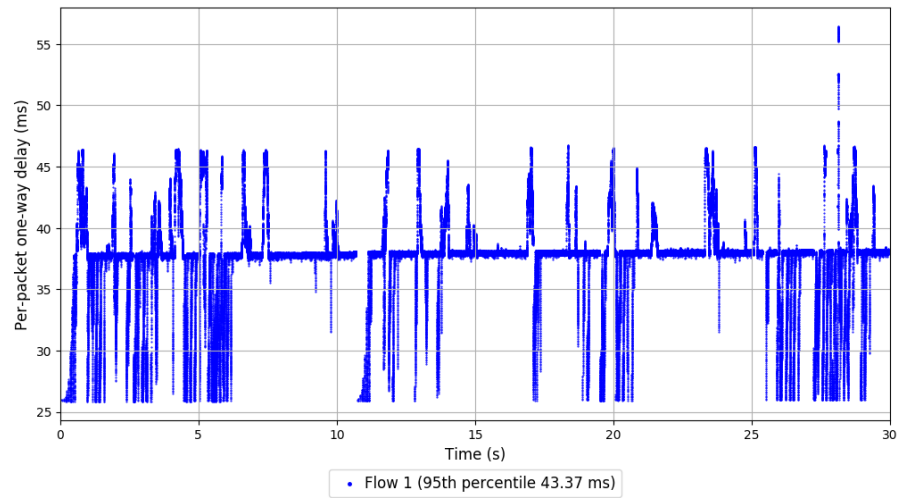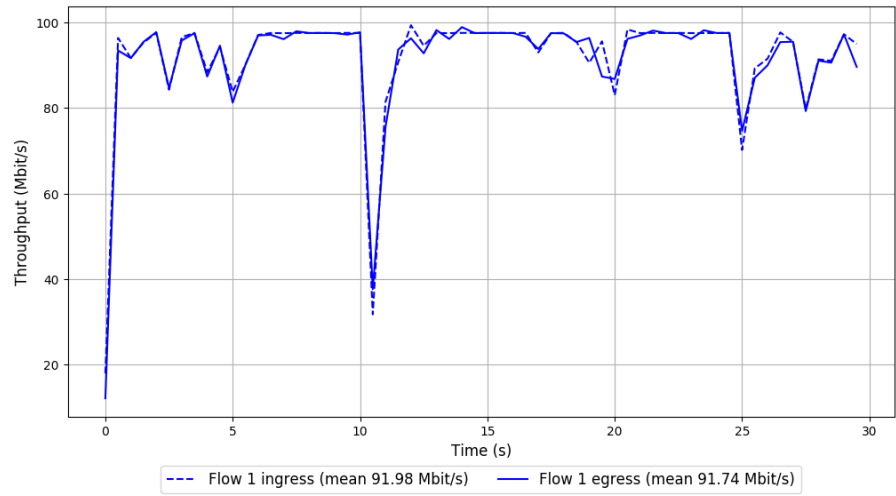
Run 9: Report of TCP Vegas — Data Link

```
Run 10: Statistics of TCP Vegas

Start at: 2017-12-19 22:22:13
End at: 2017-12-19 22:22:43
Local clock offset: -2.622 ms
Remote clock offset: -4.951 ms


# Below is generated by plot.py at 2017-12-20 02:14:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.70 Mbit/s
95th percentile per-packet one-way delay: 29.166 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 53.70 Mbit/s
95th percentile per-packet one-way delay: 29.166 ms
Loss rate: 0.22%
```

Run 10: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 53.72 Mbit/s)   Flow 1 egress (mean 53.70 Mbit/s)

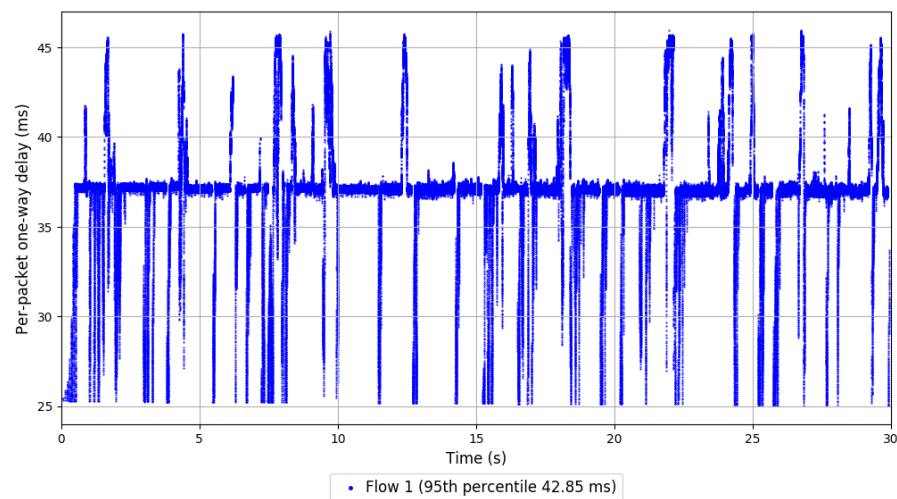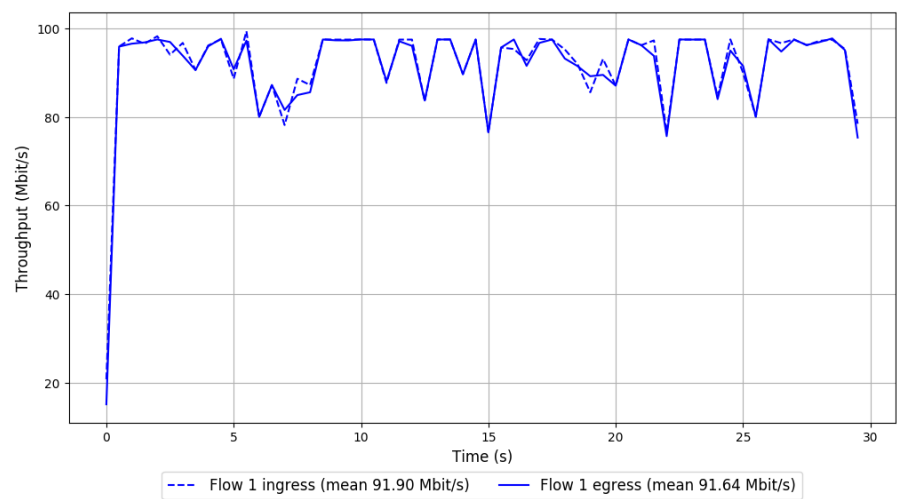

Flow 1 (95th percentile 29.17 ms)

```
Run 1: Statistics of Verus

Start at: 2017-12-19 19:24:28
End at: 2017-12-19 19:24:58
Local clock offset: -12.349 ms
Remote clock offset: -3.382 ms


# Below is generated by plot.py at 2017-12-20 02:14:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.74 Mbit/s
95th percentile per-packet one-way delay: 43.367 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 91.74 Mbit/s
95th percentile per-packet one-way delay: 43.367 ms
Loss rate: 0.45%
```

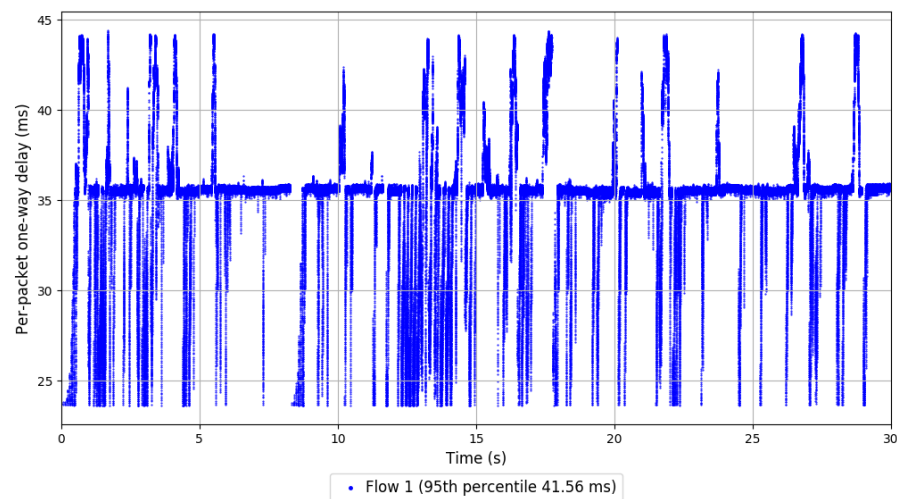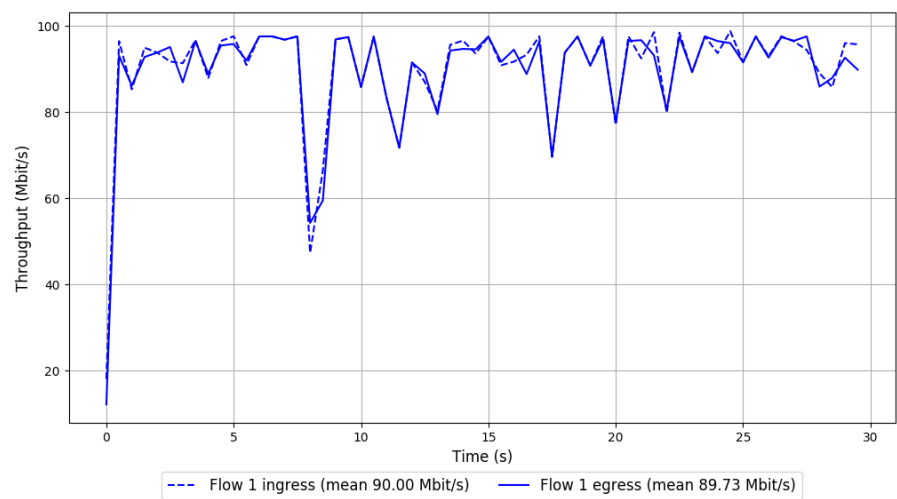Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2017-12-19 19:44:36
End at: 2017-12-19 19:45:06
Local clock offset: -5.035 ms
Remote clock offset: -3.351 ms


# Below is generated by plot.py at 2017-12-20 02:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.64 Mbit/s
95th percentile per-packet one-way delay: 42.853 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 91.64 Mbit/s
95th percentile per-packet one-way delay: 42.853 ms
Loss rate: 0.44%
```

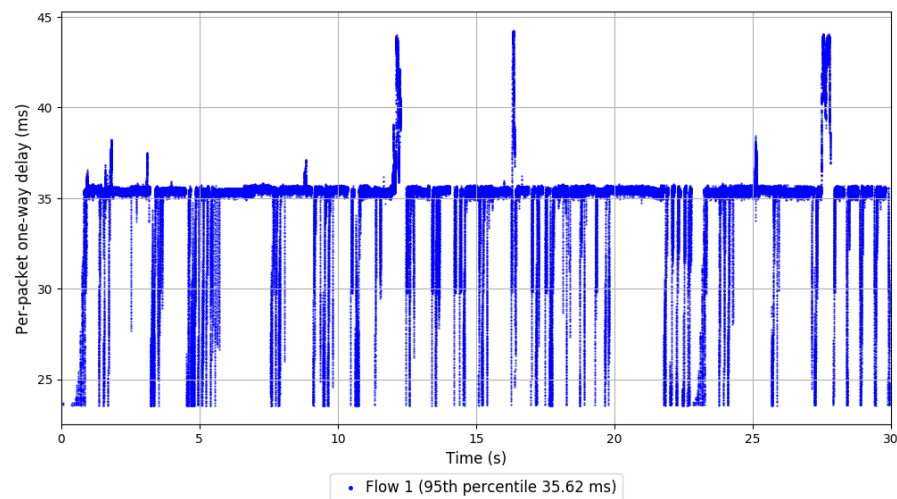Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2017-12-19 20:04:34
End at: 2017-12-19 20:05:04
Local clock offset: -2.738 ms
Remote clock offset: -0.855 ms


# Below is generated by plot.py at 2017-12-20 02:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.73 Mbit/s
95th percentile per-packet one-way delay: 41.561 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 89.73 Mbit/s
95th percentile per-packet one-way delay: 41.561 ms
Loss rate: 0.48%
```

Run 3: Report of Verus — Data Link

Flow 1 ingress (mean 90.00 Mbit/s)   Flow 1 egress (mean 89.73 Mbit/s)

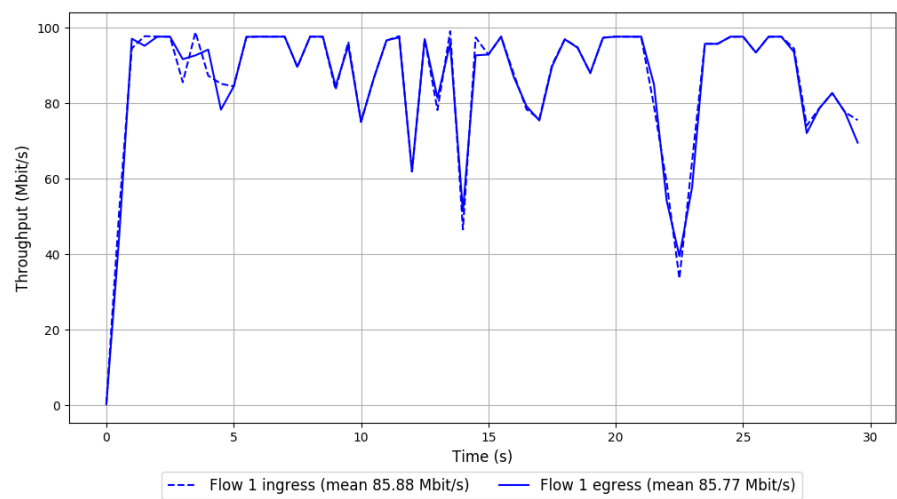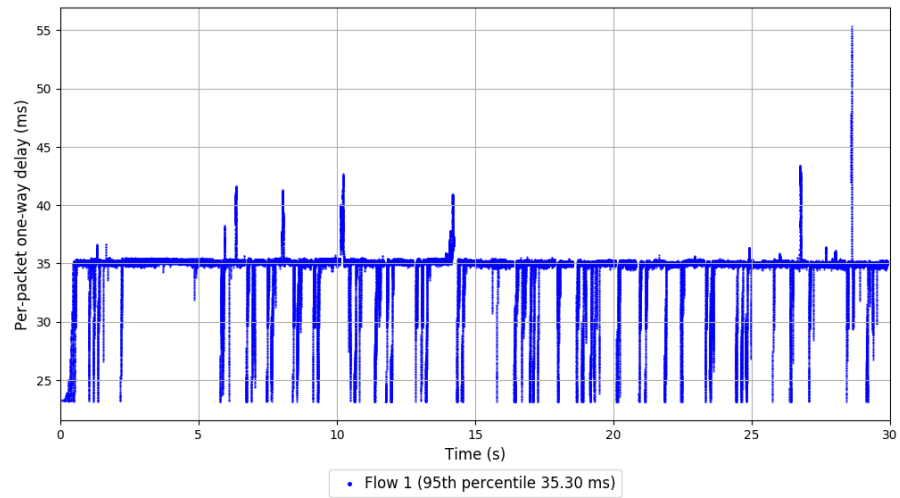Flow 1 (95th percentile 41.56 ms)

```
Run 4: Statistics of Verus

Start at: 2017-12-19 20:24:42
End at: 2017-12-19 20:25:12
Local clock offset: -3.198 ms
Remote clock offset: -0.355 ms


# Below is generated by plot.py at 2017-12-20 02:14:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.77 Mbit/s
95th percentile per-packet one-way delay: 35.620 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 85.77 Mbit/s
95th percentile per-packet one-way delay: 35.620 ms
Loss rate: 0.33%
```

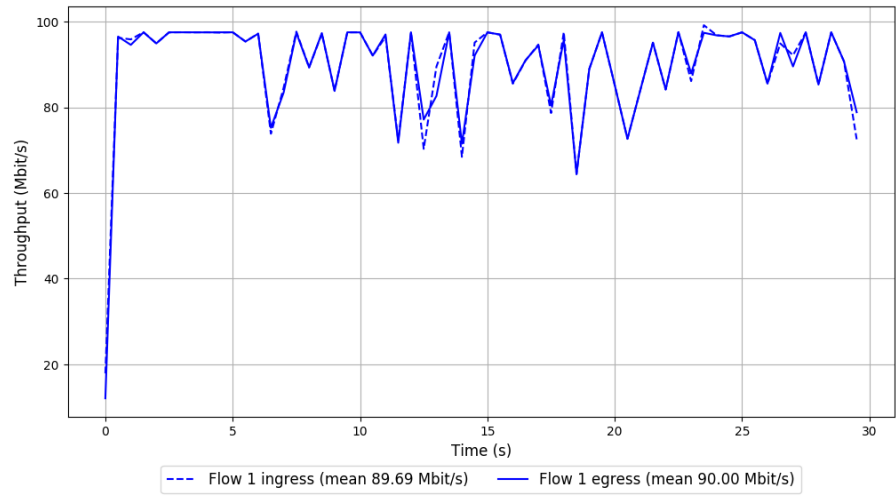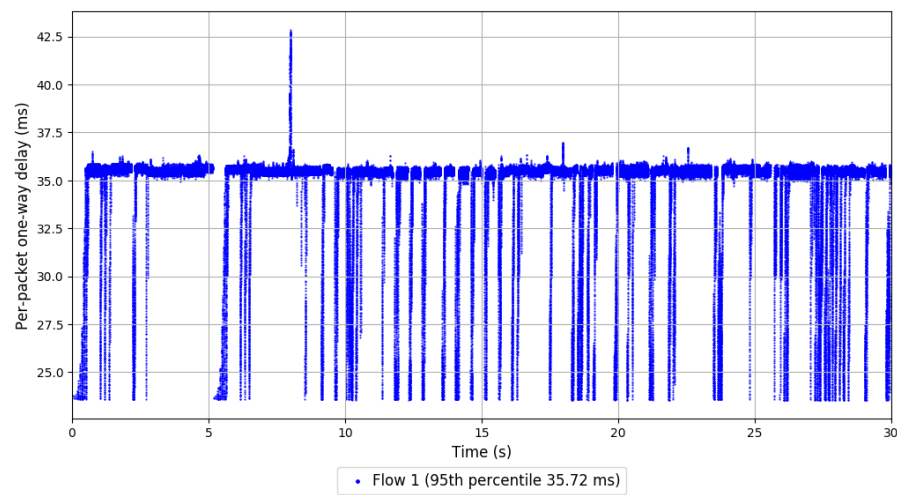Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2017-12-19 20:44:44
End at: 2017-12-19 20:45:14
Local clock offset: -2.616 ms
Remote clock offset: -0.536 ms


# Below is generated by plot.py at 2017-12-20 02:15:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.00 Mbit/s
95th percentile per-packet one-way delay: 35.295 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 90.00 Mbit/s
95th percentile per-packet one-way delay: 35.295 ms
Loss rate: 0.01%
```

Run 5: Report of Verus — Data Link

Flow 1 ingress (mean 89.69 Mbit/s)   Flow 1 egress (mean 90.00 Mbit/s)

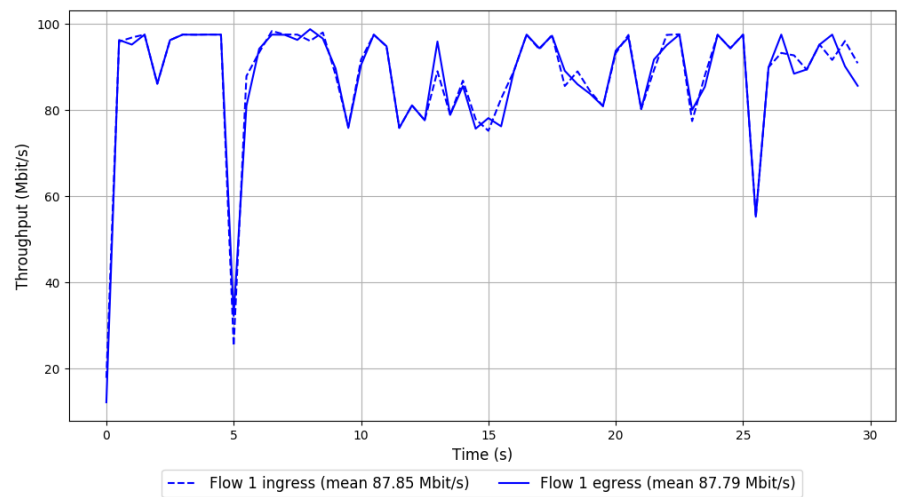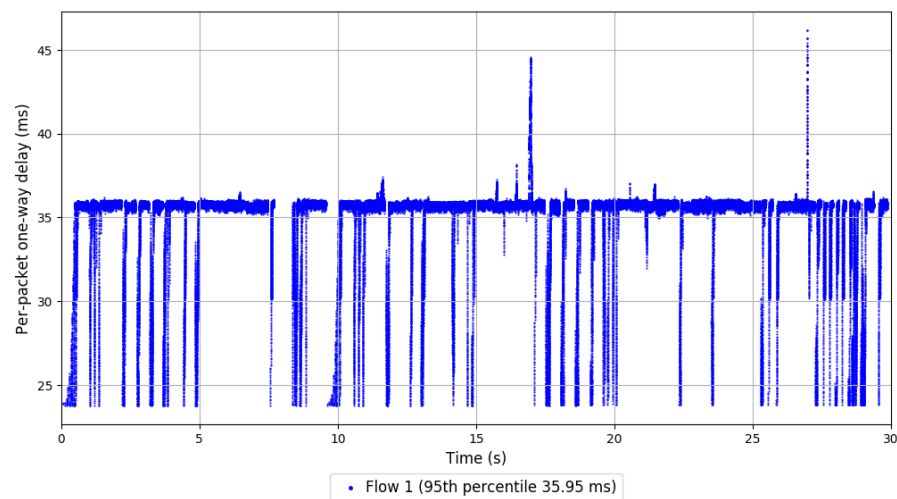Flow 1 (95th percentile 35.30 ms)

```
Run 6: Statistics of Verus

Start at: 2017-12-19 21:04:46
End at: 2017-12-19 21:05:16
Local clock offset: -2.338 ms
Remote clock offset: -1.694 ms


# Below is generated by plot.py at 2017-12-20 02:15:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.79 Mbit/s
95th percentile per-packet one-way delay: 35.715 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 87.79 Mbit/s
95th percentile per-packet one-way delay: 35.715 ms
Loss rate: 0.23%
```

Run 6: Report of Verus — Data Link

Flow 1 ingress (mean 87.85 Mbit/s) ——— Flow 1 egress (mean 87.79 Mbit/s)

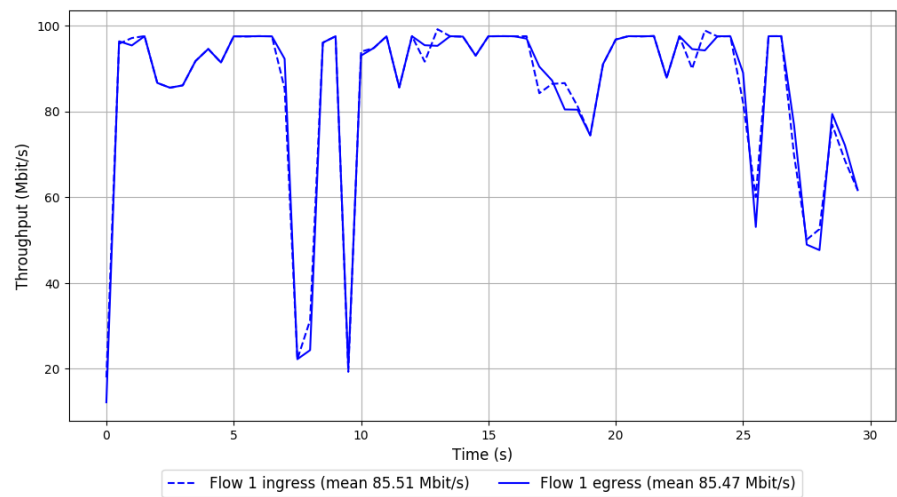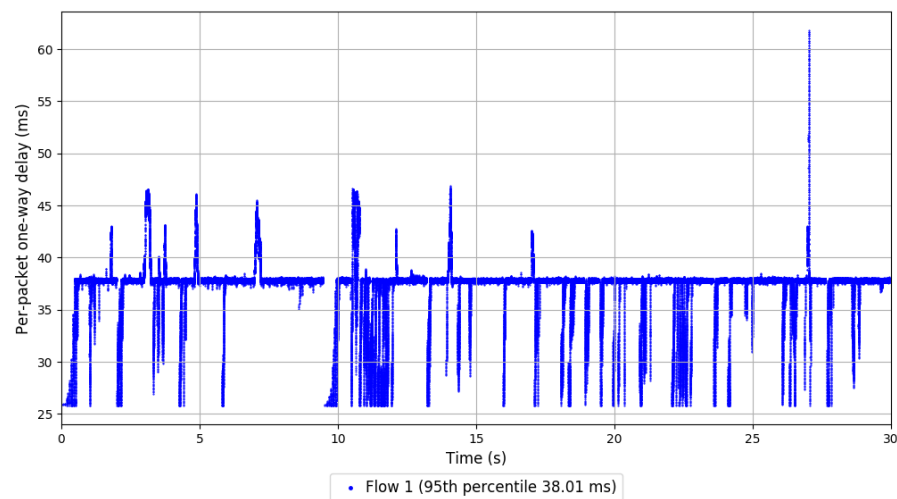• Flow 1 (95th percentile 35.72 ms)

```
Run 7: Statistics of Verus

Start at: 2017-12-19 21:24:58
End at: 2017-12-19 21:25:28
Local clock offset: -2.857 ms
Remote clock offset: -1.919 ms


# Below is generated by plot.py at 2017-12-20 02:15:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.47 Mbit/s
95th percentile per-packet one-way delay: 35.950 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.47 Mbit/s
95th percentile per-packet one-way delay: 35.950 ms
Loss rate: 0.01%
```

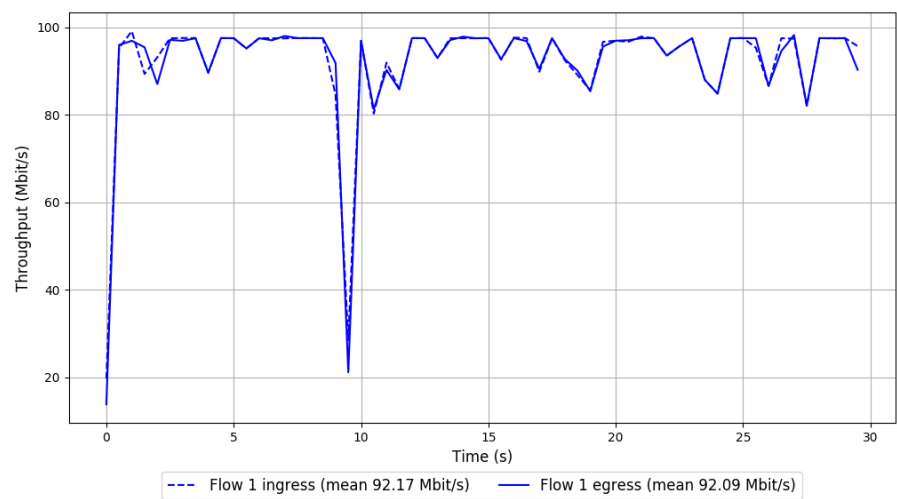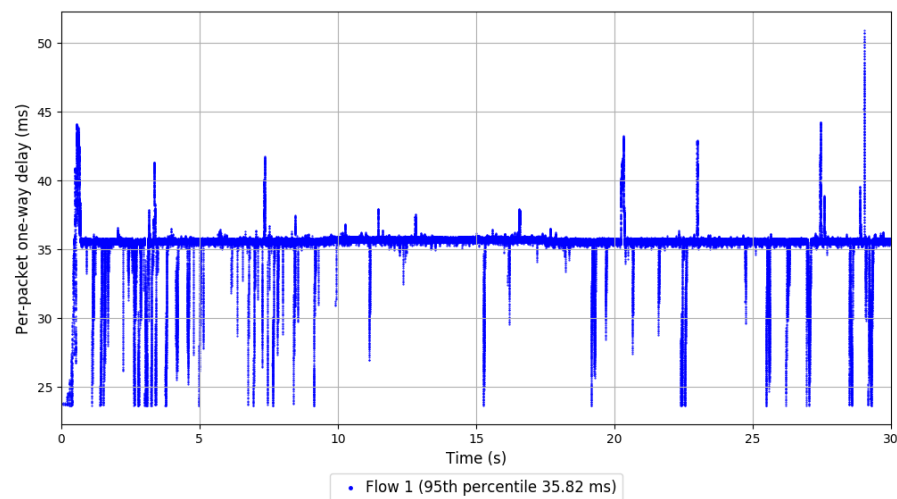Run 7: Report of Verus — Data Link

```
Run 8: Statistics of Verus

Start at: 2017-12-19 21:45:06
End at: 2017-12-19 21:45:36
Local clock offset: -3.338 ms
Remote clock offset: -3.755 ms


# Below is generated by plot.py at 2017-12-20 02:15:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.09 Mbit/s
95th percentile per-packet one-way delay: 38.014 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 92.09 Mbit/s
95th percentile per-packet one-way delay: 38.014 ms
Loss rate: 0.26%
```

Run 8: Report of Verus — Data Link

Flow 1 ingress (mean 92.17 Mbit/s)   Flow 1 egress (mean 92.09 Mbit/s)

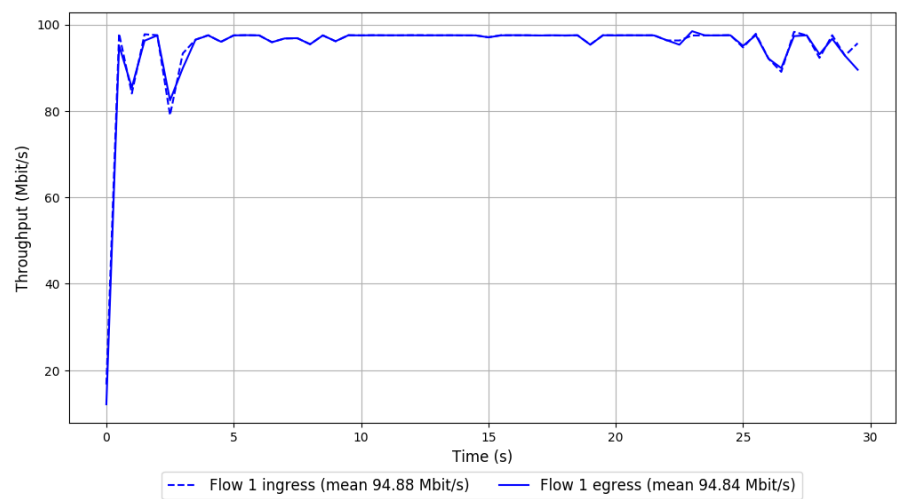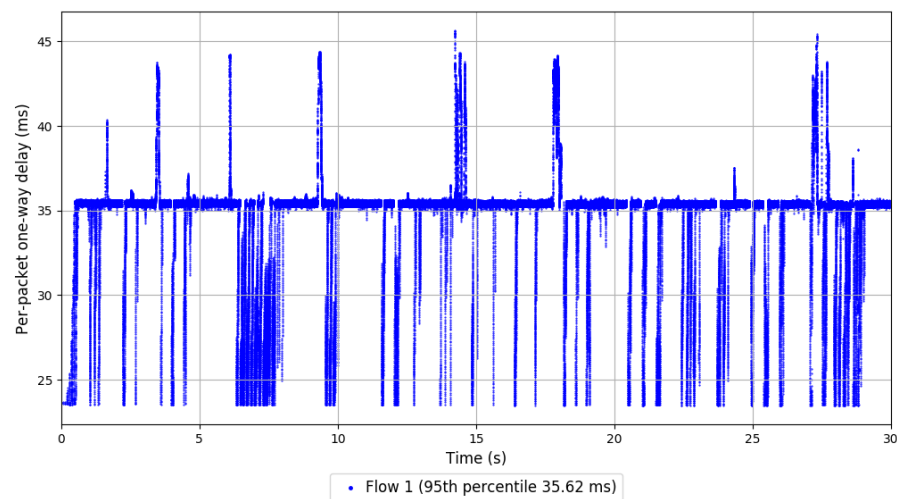Flow 1 (95th percentile 38.01 ms)

```
Run 9: Statistics of Verus

Start at: 2017-12-19 22:05:03
End at: 2017-12-19 22:05:33
Local clock offset: -4.297 ms
Remote clock offset: -2.129 ms


# Below is generated by plot.py at 2017-12-20 02:15:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.84 Mbit/s
95th percentile per-packet one-way delay: 35.817 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 94.84 Mbit/s
95th percentile per-packet one-way delay: 35.817 ms
Loss rate: 0.24%
```

Run 9: Report of Verus — Data Link

Flow 1 ingress (mean 94.88 Mbit/s)   Flow 1 egress (mean 94.84 Mbit/s)

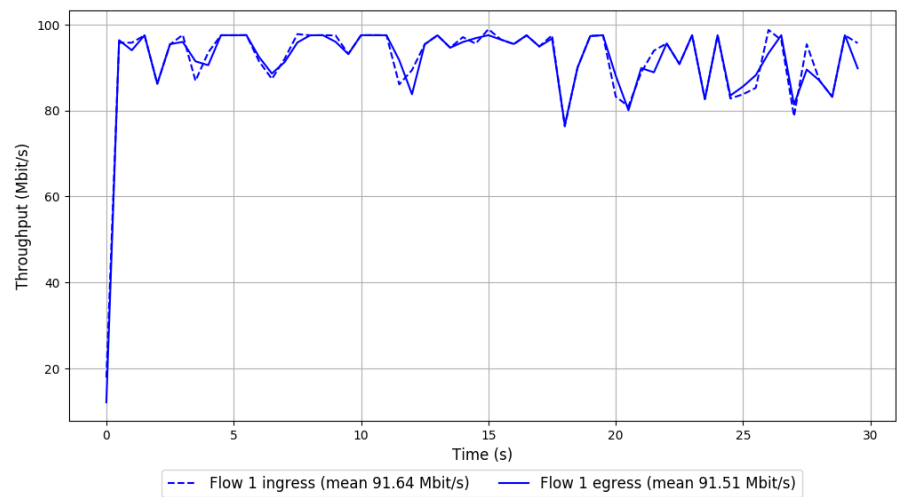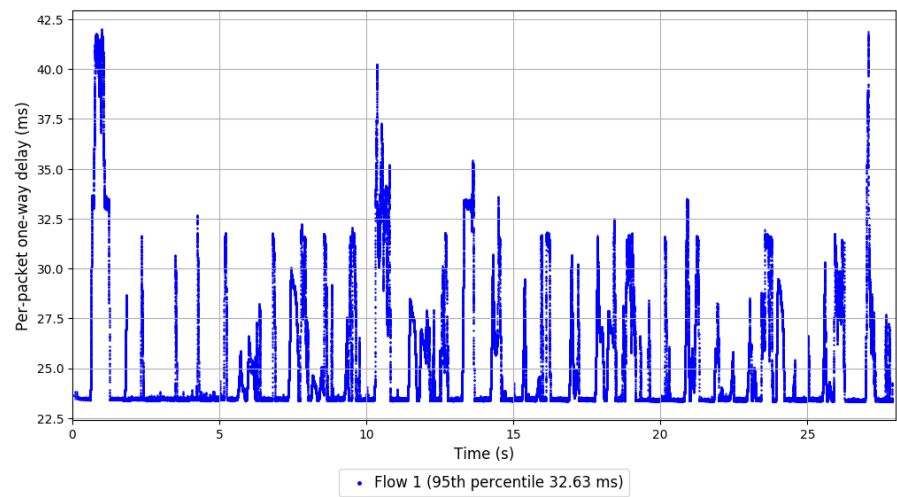Flow 1 (95th percentile 35.82 ms)

```
Run 10: Statistics of Verus

Start at: 2017-12-19 22:25:02
End at: 2017-12-19 22:25:32
Local clock offset: -2.2 ms
Remote clock offset: -3.013 ms


# Below is generated by plot.py at 2017-12-20 02:15:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.51 Mbit/s
95th percentile per-packet one-way delay: 35.621 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 91.51 Mbit/s
95th percentile per-packet one-way delay: 35.621 ms
Loss rate: 0.34%
```

Run 10: Report of Verus — Data Link

Flow 1 ingress (mean 91.64 Mbit/s)   Flow 1 egress (mean 91.51 Mbit/s)

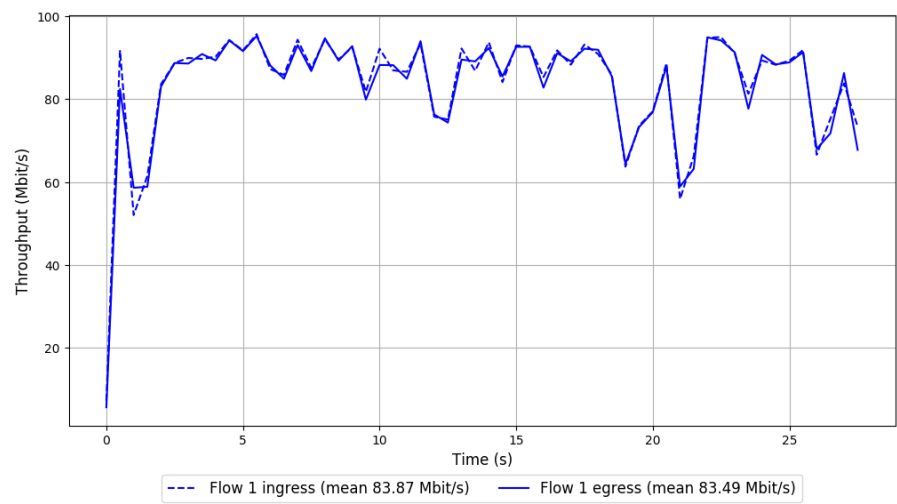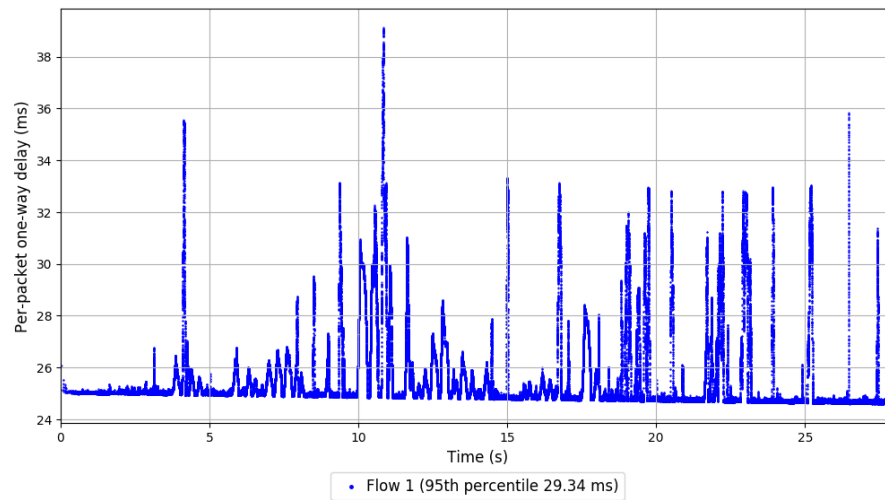Flow 1 (95th percentile 35.62 ms)

```
Run 1: Statistics of Copa

Start at: 2017-12-19 19:23:01
End at: 2017-12-19 19:23:31
Local clock offset: -12.616 ms
Remote clock offset: -1.208 ms


# Below is generated by plot.py at 2017-12-20 02:16:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.49 Mbit/s
95th percentile per-packet one-way delay: 32.633 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 83.49 Mbit/s
95th percentile per-packet one-way delay: 32.633 ms
Loss rate: 0.64%
```

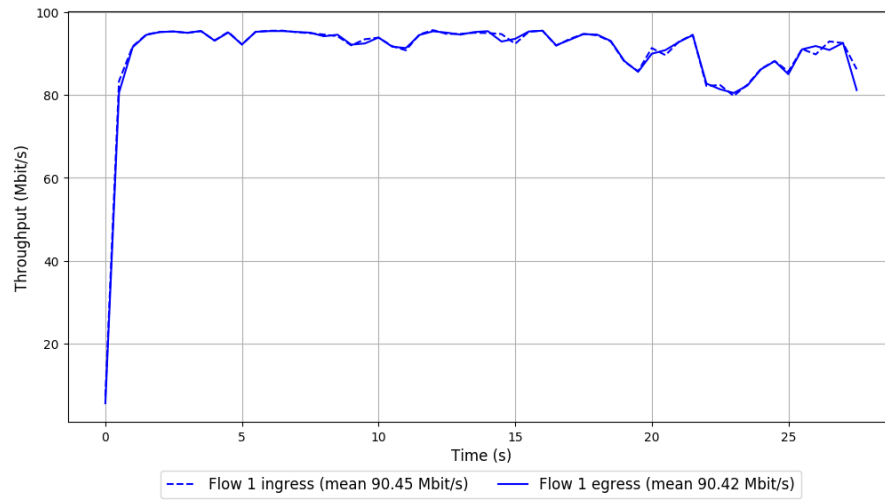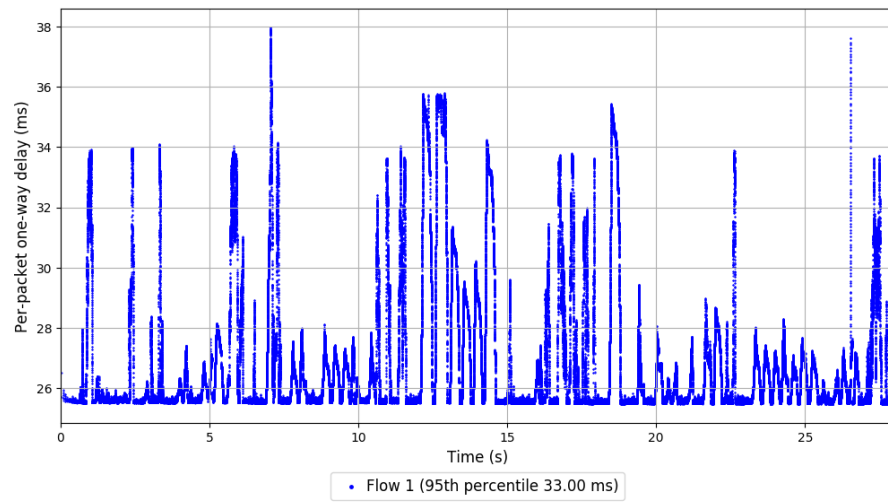Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: 2017-12-19 19:43:11
End at: 2017-12-19 19:43:41
Local clock offset: -6.216 ms
Remote clock offset: -3.261 ms


# Below is generated by plot.py at 2017-12-20 02:17:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.42 Mbit/s
95th percentile per-packet one-way delay: 29.335 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 90.42 Mbit/s
95th percentile per-packet one-way delay: 29.335 ms
Loss rate: 0.23%
```

Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 90.45 Mbit/s) ——— Flow 1 egress (mean 90.42 Mbit/s)

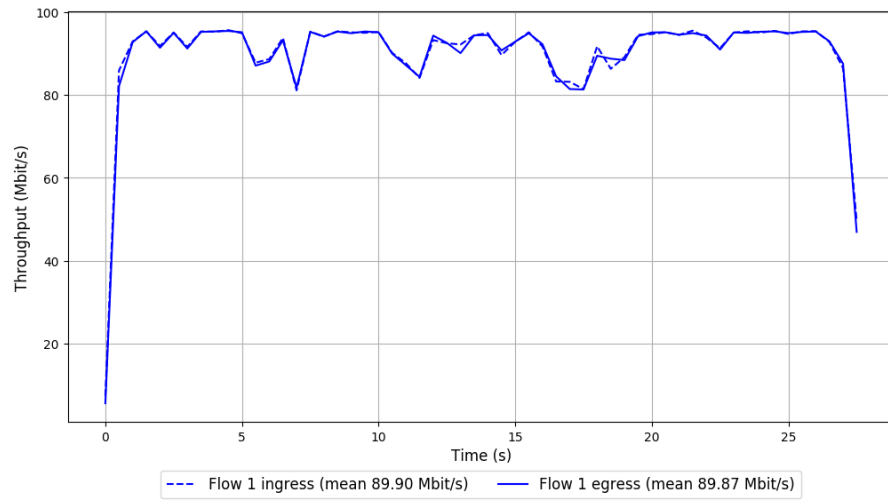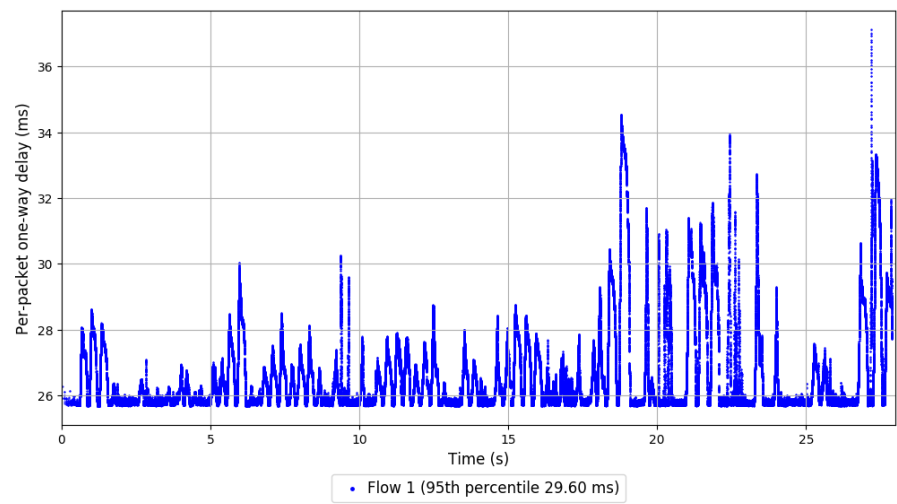• Flow 1 (95th percentile 29.34 ms)

```
Run 3: Statistics of Copa

Start at: 2017-12-19 20:03:10
End at: 2017-12-19 20:03:40
Local clock offset: -2.895 ms
Remote clock offset: -2.843 ms

# Below is generated by plot.py at 2017-12-20 02:17:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 33.001 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 33.001 ms
Loss rate: 0.23%
```

Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 89.90 Mbit/s)   —— Flow 1 egress (mean 89.87 Mbit/s)

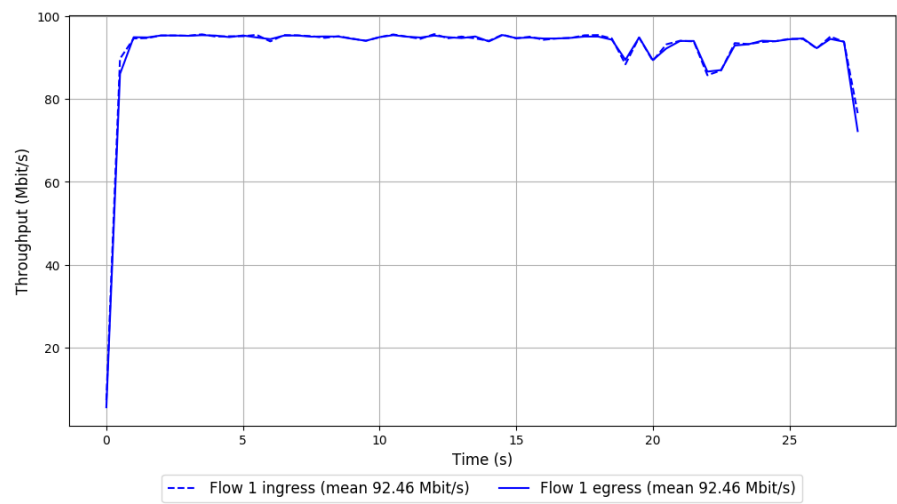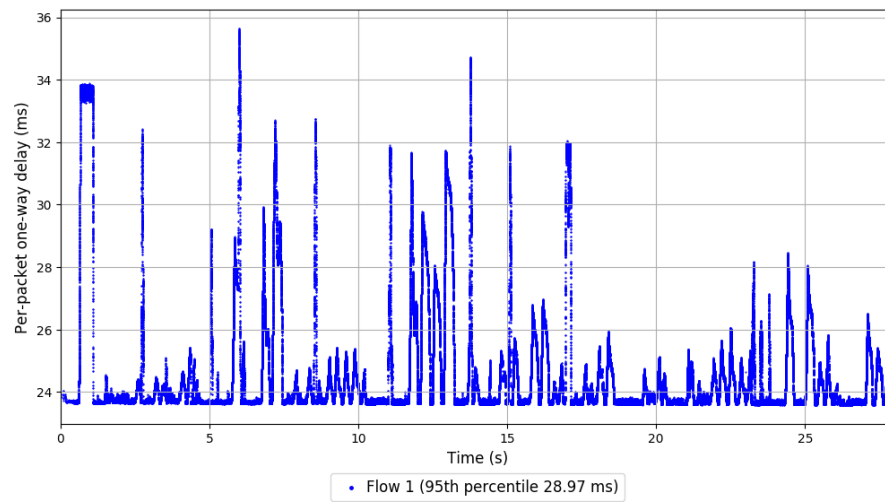• Flow 1 (95th percentile 33.00 ms)

```
Run 4: Statistics of Copa

Start at: 2017-12-19 20:23:17
End at: 2017-12-19 20:23:47
Local clock offset: -3.089 ms
Remote clock offset: -2.396 ms

# Below is generated by plot.py at 2017-12-20 02:17:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.46 Mbit/s
95th percentile per-packet one-way delay: 29.600 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 92.46 Mbit/s
95th percentile per-packet one-way delay: 29.600 ms
Loss rate: 0.19%
```

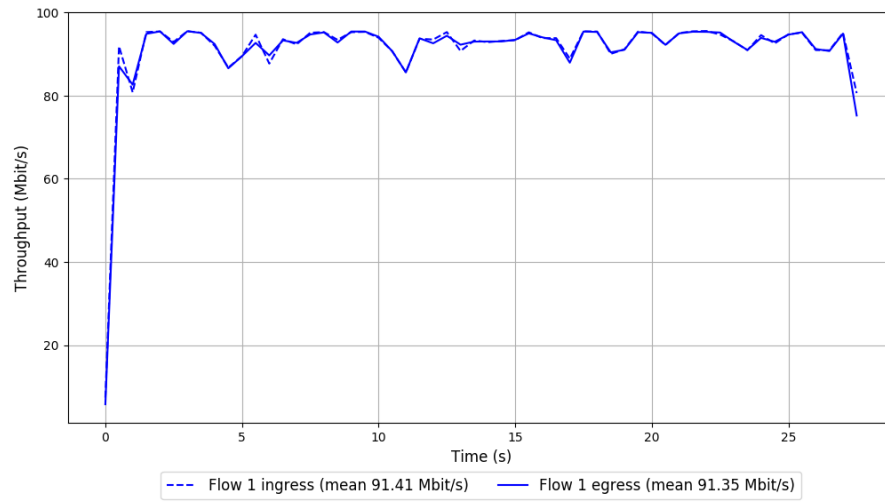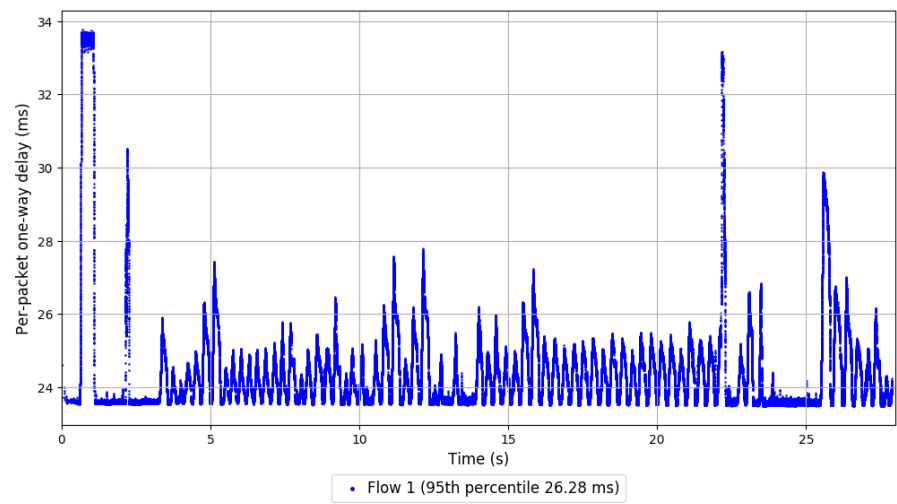# Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2017-12-19 20:43:20
End at: 2017-12-19 20:43:50
Local clock offset: -2.697 ms
Remote clock offset: -0.988 ms

# Below is generated by plot.py at 2017-12-20 02:17:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.35 Mbit/s
95th percentile per-packet one-way delay: 28.974 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 91.35 Mbit/s
95th percentile per-packet one-way delay: 28.974 ms
Loss rate: 0.26%
```

Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 91.41 Mbit/s)   Flow 1 egress (mean 91.35 Mbit/s)

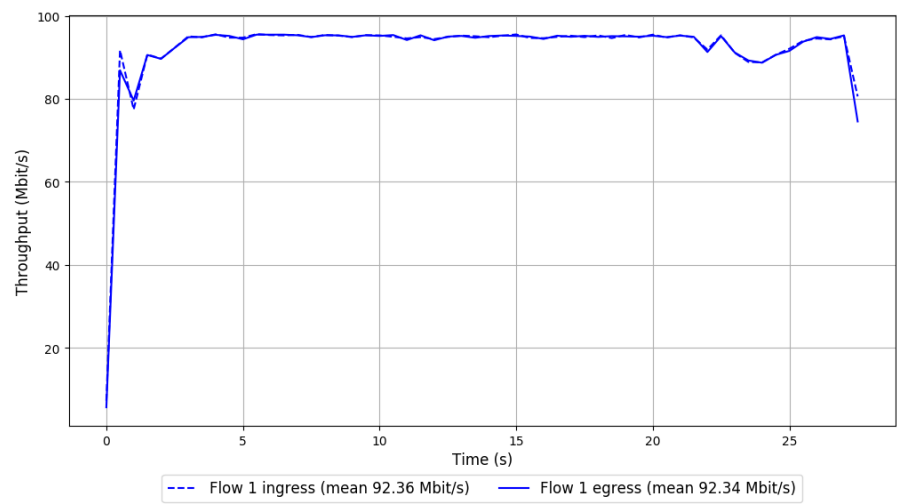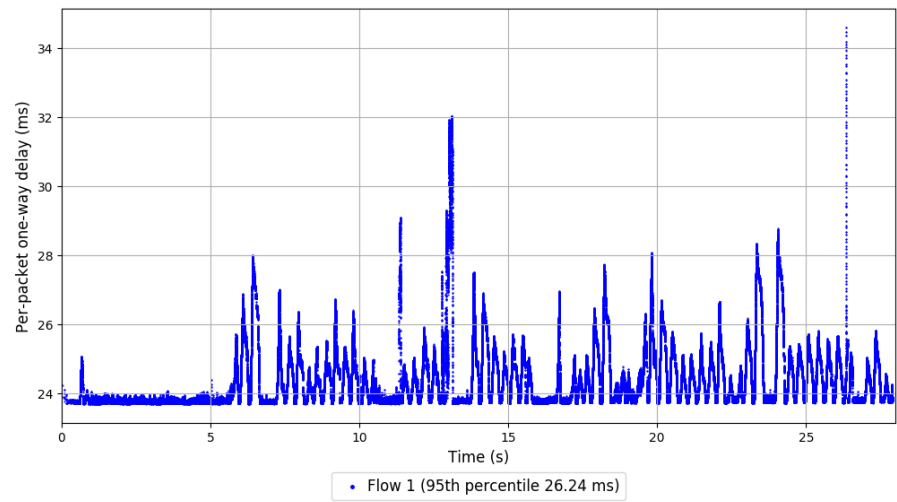Flow 1 (95th percentile 28.97 ms)

```
Run 6: Statistics of Copa

Start at: 2017-12-19 21:03:19
End at: 2017-12-19 21:03:49
Local clock offset: -2.585 ms
Remote clock offset: -1.774 ms

# Below is generated by plot.py at 2017-12-20 02:17:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.34 Mbit/s
95th percentile per-packet one-way delay: 26.281 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 92.34 Mbit/s
95th percentile per-packet one-way delay: 26.281 ms
Loss rate: 0.22%
```

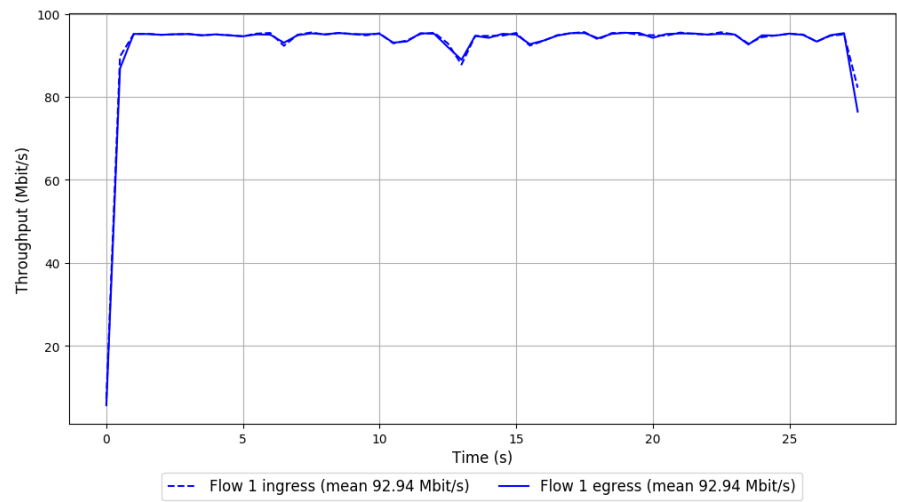## Run 6: Report of Copa — Data Link

```
Run 7: Statistics of Copa

Start at: 2017-12-19 21:23:35
End at: 2017-12-19 21:24:05
Local clock offset: -2.836 ms
Remote clock offset: -1.944 ms

# Below is generated by plot.py at 2017-12-20 02:18:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 26.239 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 26.239 ms
Loss rate: 0.20%
```

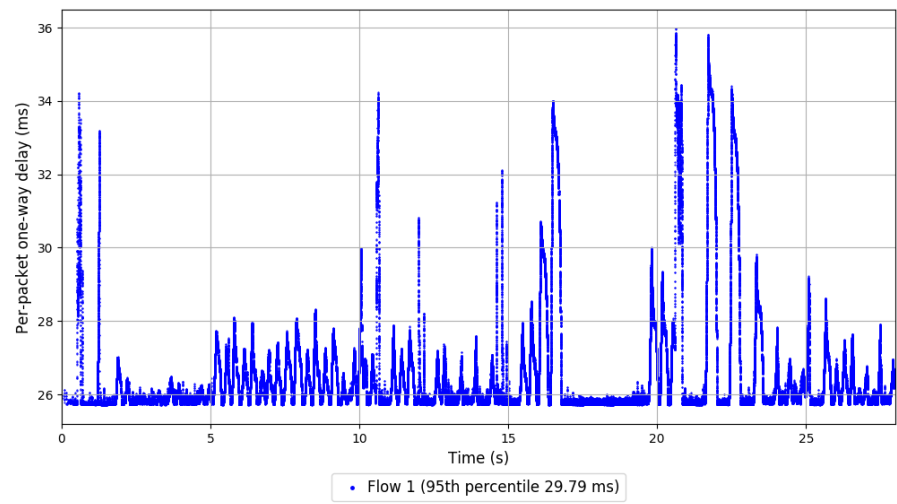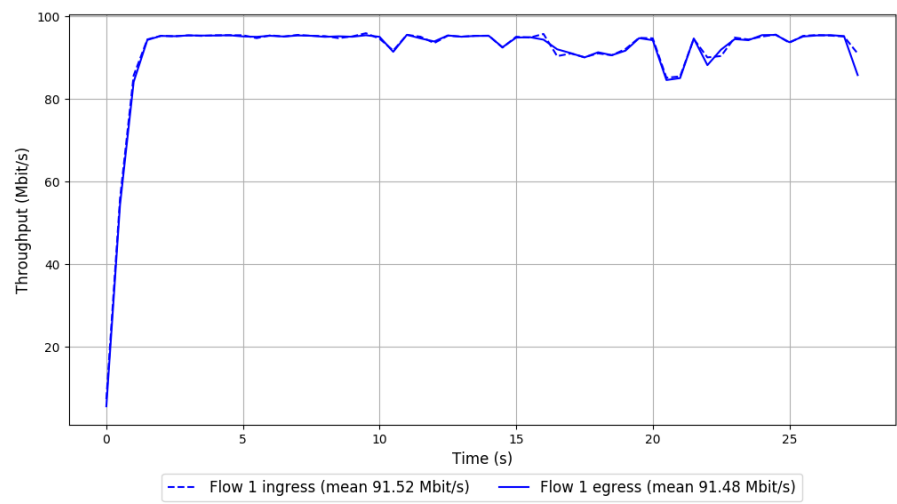## Run 7: Report of Copa — Data Link

```
Run 8: Statistics of Copa

Start at: 2017-12-19 21:43:41
End at: 2017-12-19 21:44:11
Local clock offset: -3.335 ms
Remote clock offset: -3.709 ms

# Below is generated by plot.py at 2017-12-20 02:18:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 29.785 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 29.785 ms
Loss rate: 0.24%
```

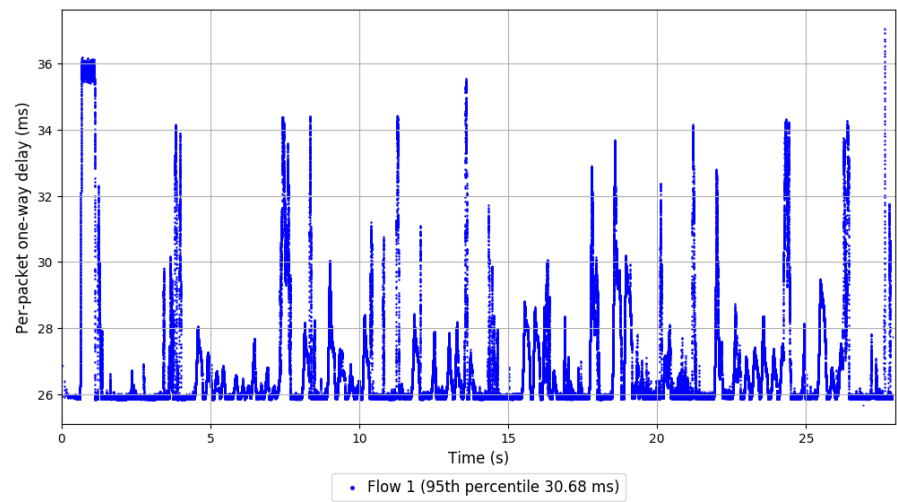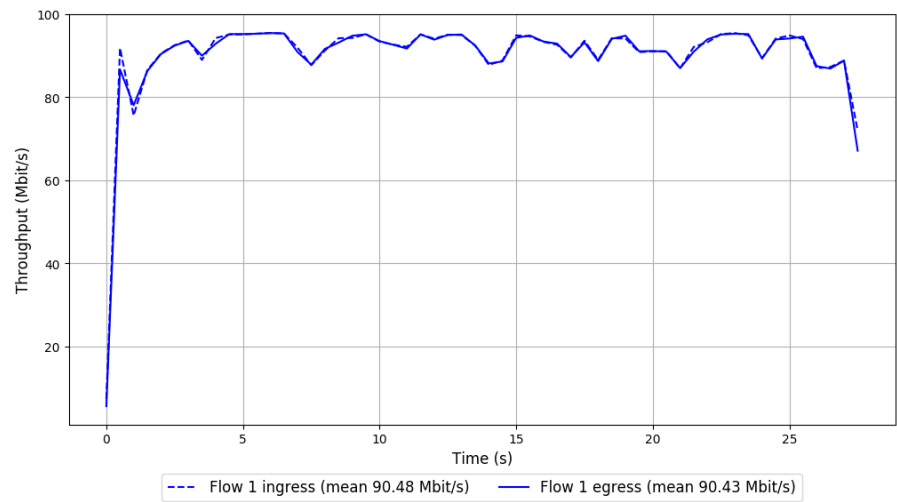## Run 8: Report of Copa — Data Link

```
Run 9: Statistics of Copa

Start at: 2017-12-19 22:03:40
End at: 2017-12-19 22:04:10
Local clock offset: -4.113 ms
Remote clock offset: -4.179 ms


# Below is generated by plot.py at 2017-12-20 02:19:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.43 Mbit/s
95th percentile per-packet one-way delay: 30.676 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 90.43 Mbit/s
95th percentile per-packet one-way delay: 30.676 ms
Loss rate: 0.24%
```

Run 9: Report of Copa — Data Link

Flow 1 ingress (mean 90.48 Mbit/s)   Flow 1 egress (mean 90.43 Mbit/s)

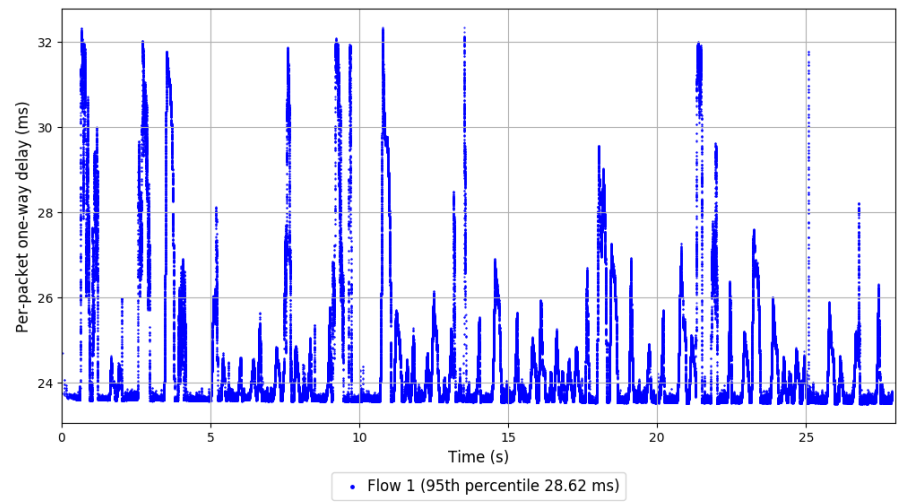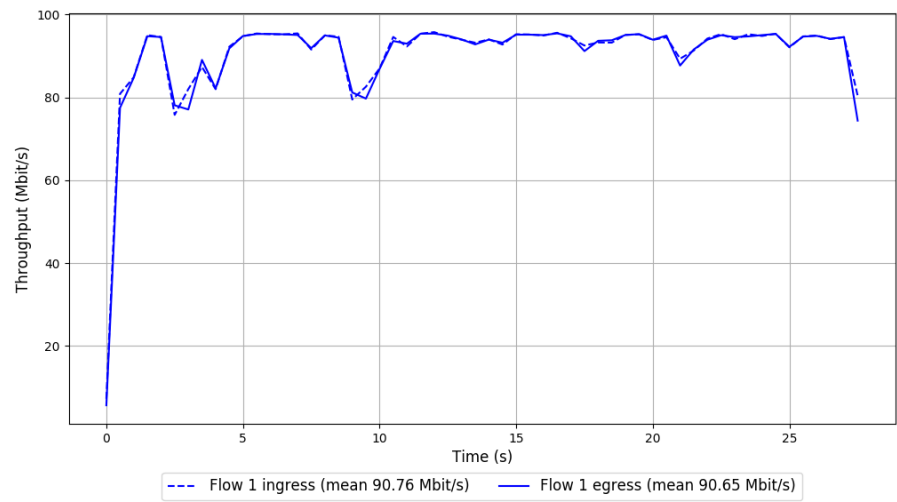• Flow 1 (95th percentile 30.68 ms)

```
Run 10: Statistics of Copa

Start at: 2017-12-19 22:23:31
End at: 2017-12-19 22:24:01
Local clock offset: -2.326 ms
Remote clock offset: -2.972 ms

# Below is generated by plot.py at 2017-12-20 02:19:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 28.616 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 28.616 ms
Loss rate: 0.31%
```

Run 10: Report of Copa — Data Link

Flow 1 ingress (mean 90.76 Mbit/s) ——— Flow 1 egress (mean 90.65 Mbit/s)

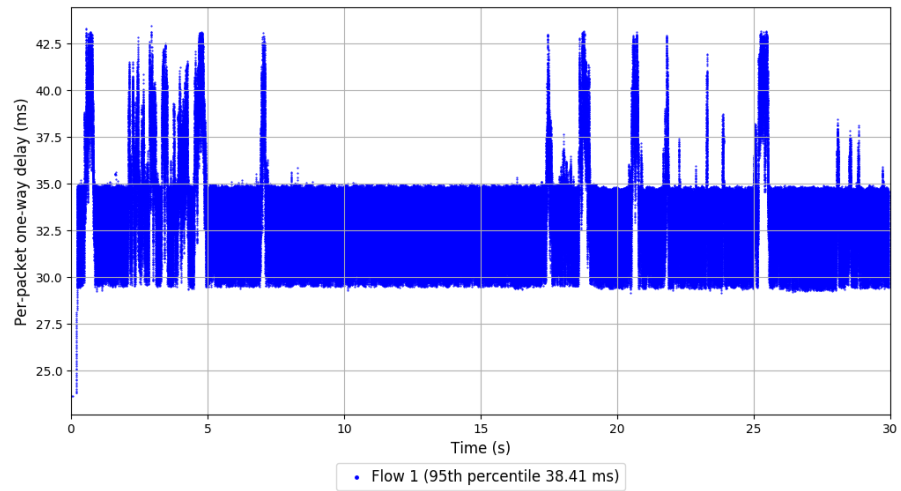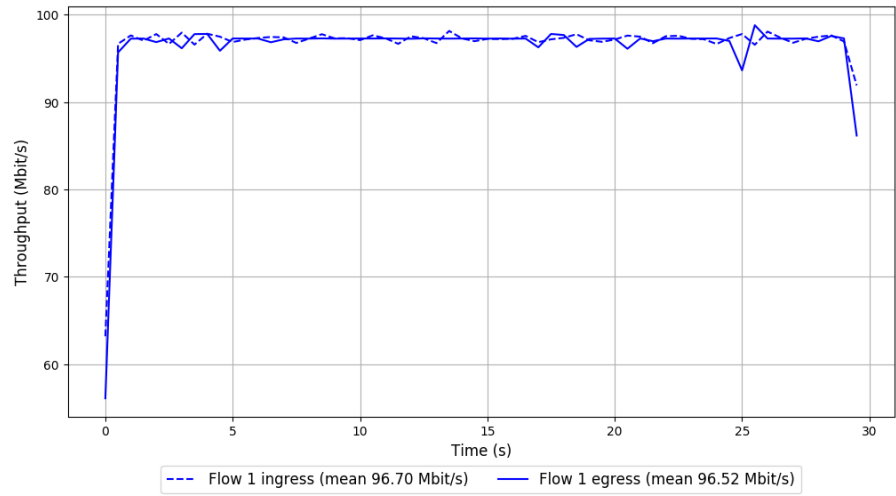· Flow 1 (95th percentile 28.62 ms)

```
Run 1: Statistics of FillP

Start at: 2017-12-19 19:35:22
End at: 2017-12-19 19:35:52
Local clock offset: -11.675 ms
Remote clock offset: -1.281 ms


# Below is generated by plot.py at 2017-12-20 02:19:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 38.412 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 38.412 ms
Loss rate: 0.37%
```
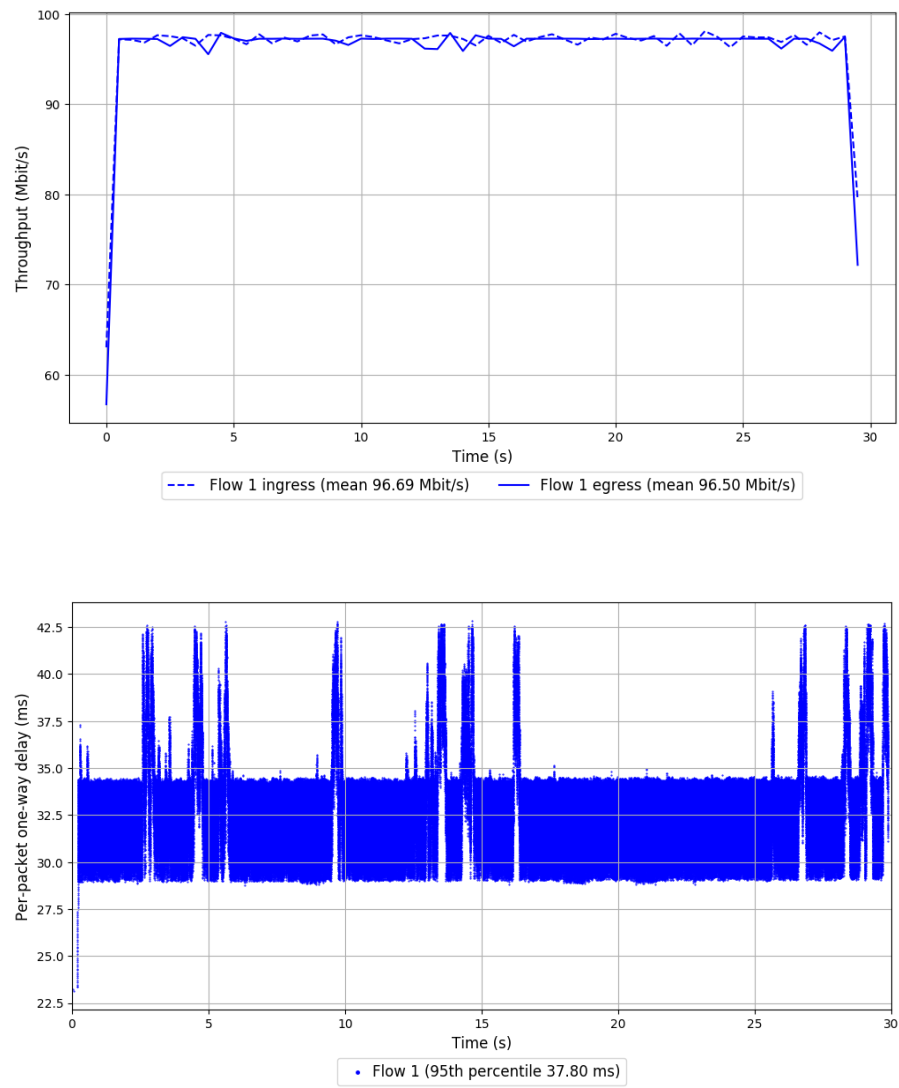
Run 1: Report of FillP — Data Link

```
Run 2: Statistics of FillP

Start at: 2017-12-19 19:55:21
End at: 2017-12-19 19:55:51
Local clock offset: -2.538 ms
Remote clock offset: -0.7 ms


# Below is generated by plot.py at 2017-12-20 02:19:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 37.803 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 37.803 ms
Loss rate: 0.39%
```

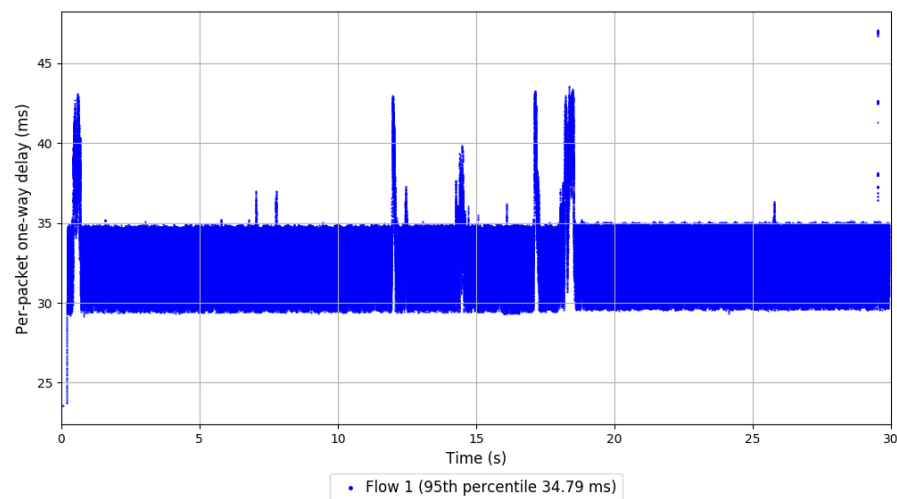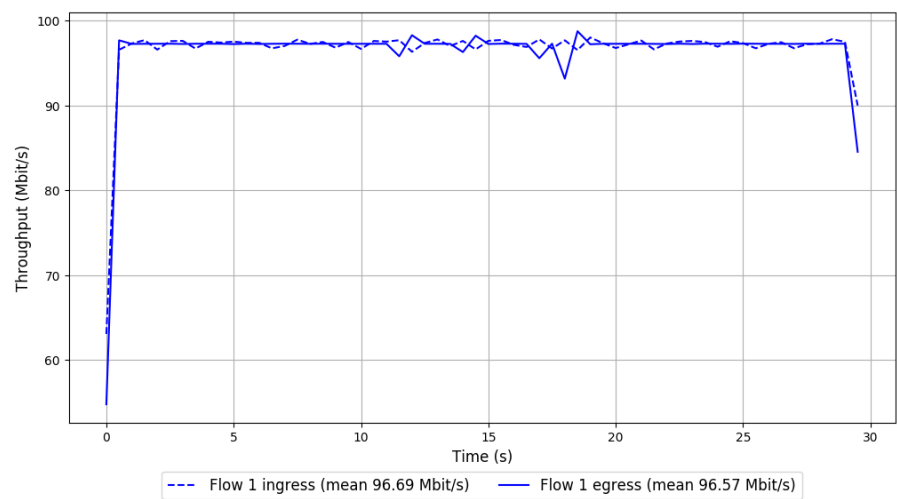Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2017-12-19 20:15:21
End at: 2017-12-19 20:15:52
Local clock offset: -2.616 ms
Remote clock offset: -0.554 ms


# Below is generated by plot.py at 2017-12-20 02:19:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 34.789 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 34.789 ms
Loss rate: 0.31%
```

Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 96.69 Mbit/s) ----   Flow 1 egress (mean 96.57 Mbit/s) ——

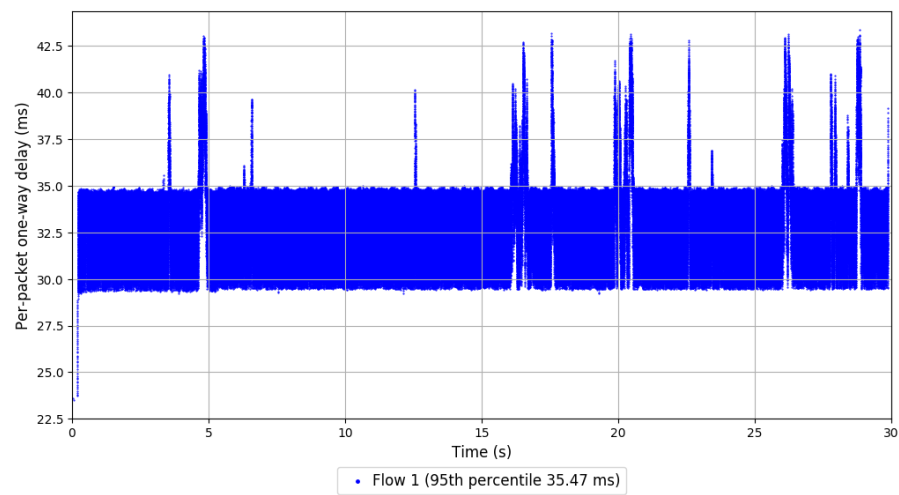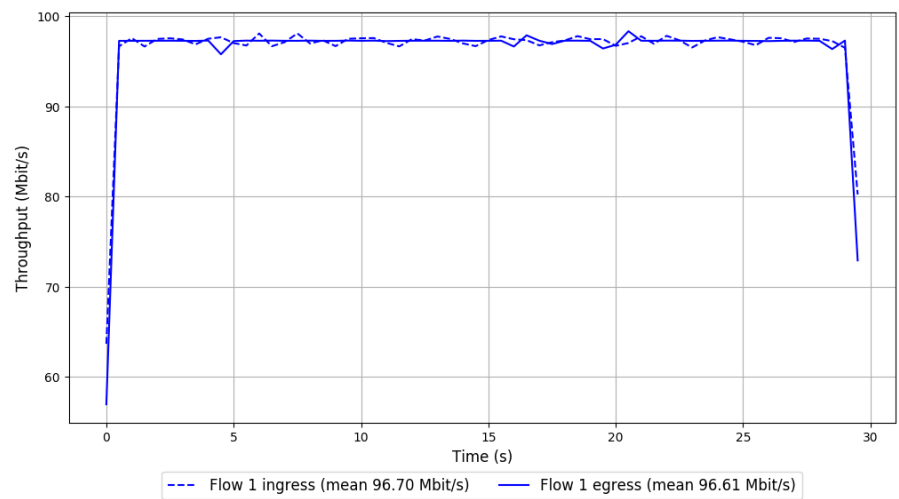• Flow 1 (95th percentile 34.79 ms)

```
Run 4: Statistics of FillP

Start at: 2017-12-19 20:35:29
End at: 2017-12-19 20:35:59
Local clock offset: -3.207 ms
Remote clock offset: -0.656 ms

# Below is generated by plot.py at 2017-12-20 02:19:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.61 Mbit/s
95th percentile per-packet one-way delay: 35.472 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 96.61 Mbit/s
95th percentile per-packet one-way delay: 35.472 ms
Loss rate: 0.28%
```

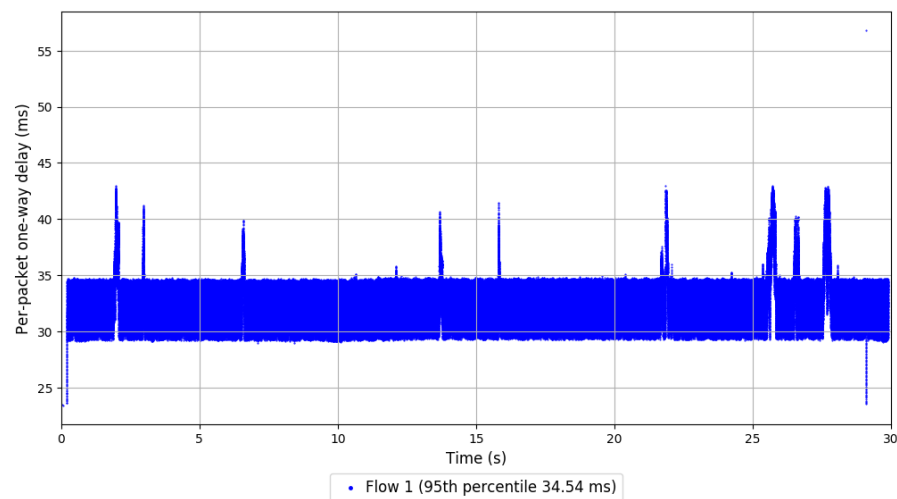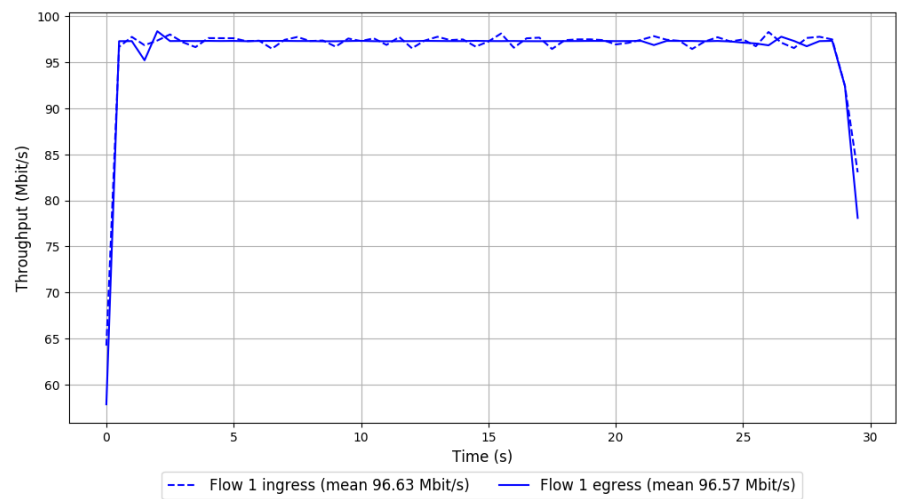Run 4: Report of FillP — Data Link

```
Run 5: Statistics of FillP

Start at: 2017-12-19 20:55:27
End at: 2017-12-19 20:55:57
Local clock offset: -3.139 ms
Remote clock offset: -1.535 ms

# Below is generated by plot.py at 2017-12-20 02:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 34.543 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 34.543 ms
Loss rate: 0.24%
```

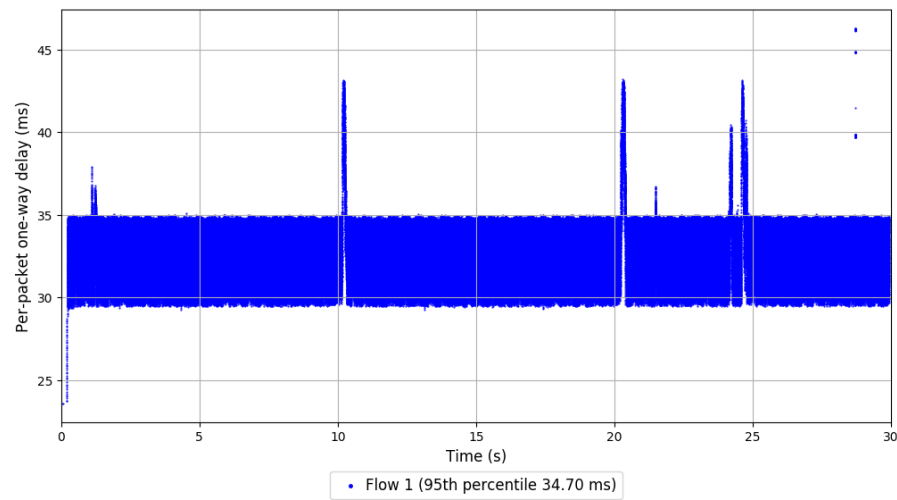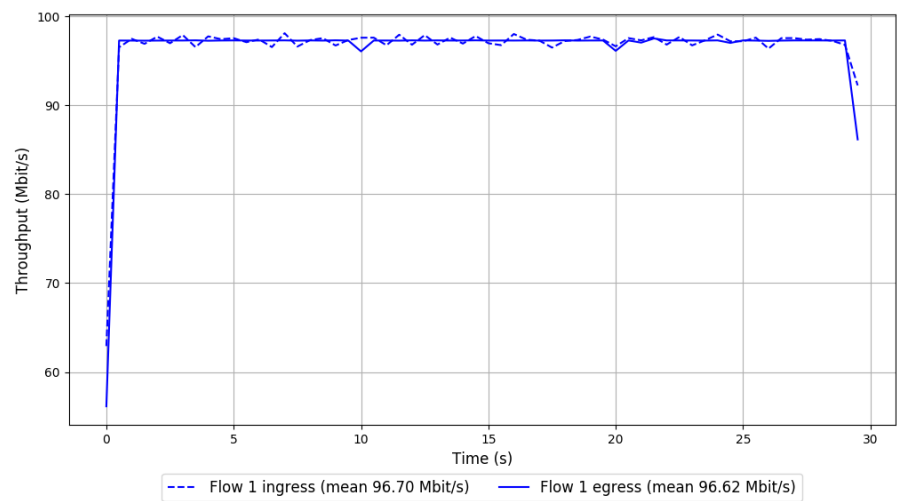Run 5: Report of FillP — Data Link

```
Run 6: Statistics of FillP

Start at: 2017-12-19 21:15:43
End at: 2017-12-19 21:16:13
Local clock offset: -2.308 ms
Remote clock offset: -1.925 ms


# Below is generated by plot.py at 2017-12-20 02:19:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.62 Mbit/s
95th percentile per-packet one-way delay: 34.702 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 96.62 Mbit/s
95th percentile per-packet one-way delay: 34.702 ms
Loss rate: 0.25%
```

Run 6: Report of FillP — Data Link

Flow 1 ingress (mean 96.70 Mbit/s) —— Flow 1 egress (mean 96.62 Mbit/s)

• Flow 1 (95th percentile 34.70 ms)

```
Run 7: Statistics of FillP

Start at: 2017-12-19 21:35:41
End at: 2017-12-19 21:36:11
Local clock offset: -3.594 ms
Remote clock offset: -1.74 ms


# Below is generated by plot.py at 2017-12-20 02:20:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 34.630 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 34.630 ms
Loss rate: 0.31%
```
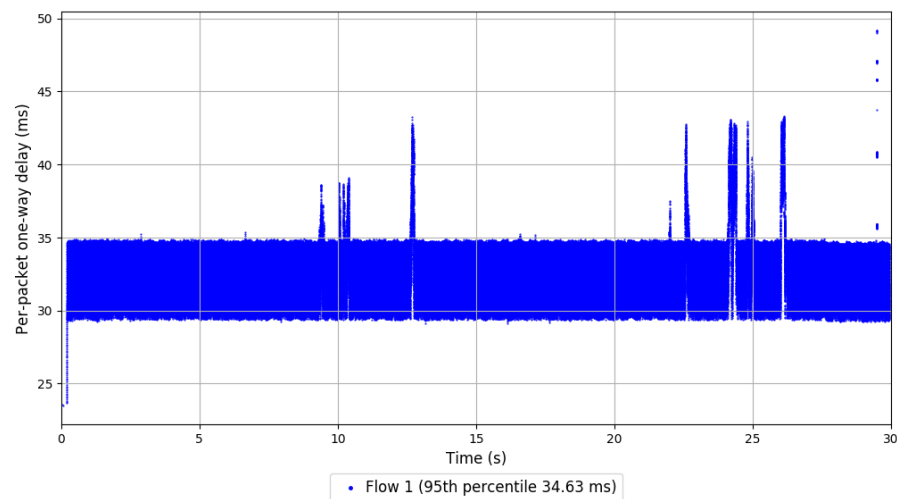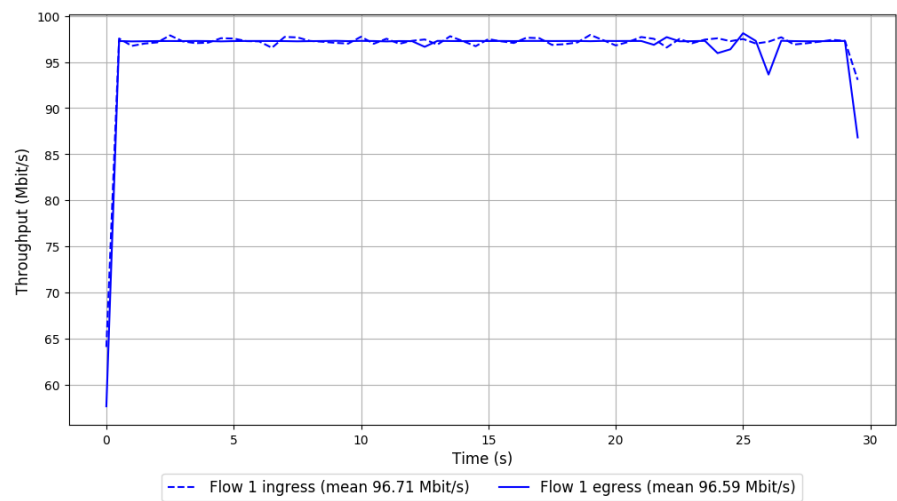
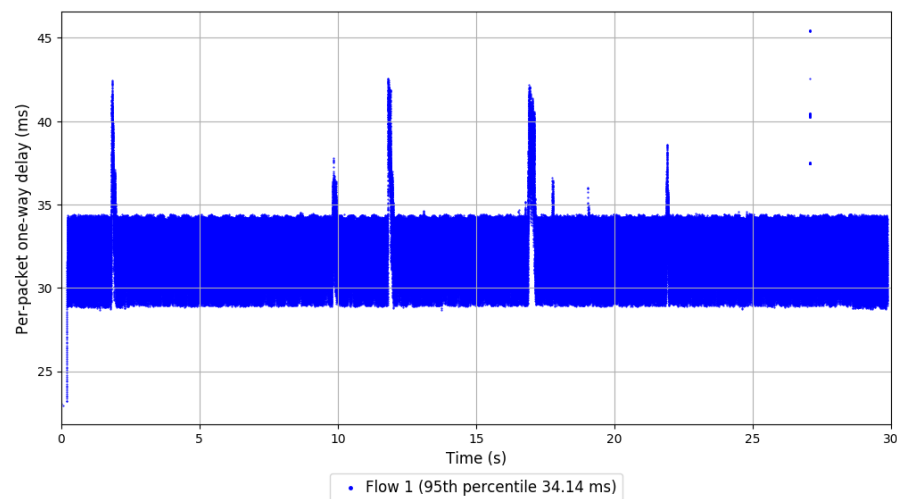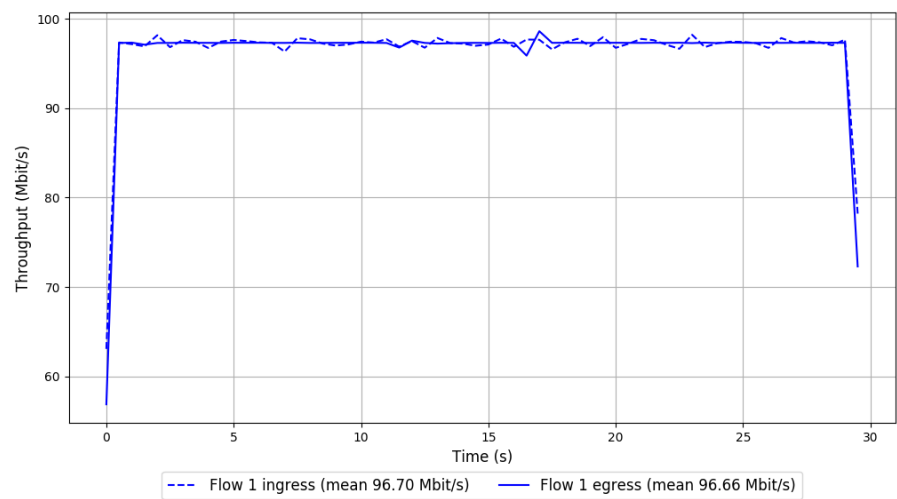Run 7: Report of FillP — Data Link

```
Run 8: Statistics of FillP

Start at: 2017-12-19 21:55:51
End at: 2017-12-19 21:56:21
Local clock offset: -3.81 ms
Remote clock offset: -1.294 ms


# Below is generated by plot.py at 2017-12-20 02:20:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.66 Mbit/s
95th percentile per-packet one-way delay: 34.141 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 96.66 Mbit/s
95th percentile per-packet one-way delay: 34.141 ms
Loss rate: 0.23%
```

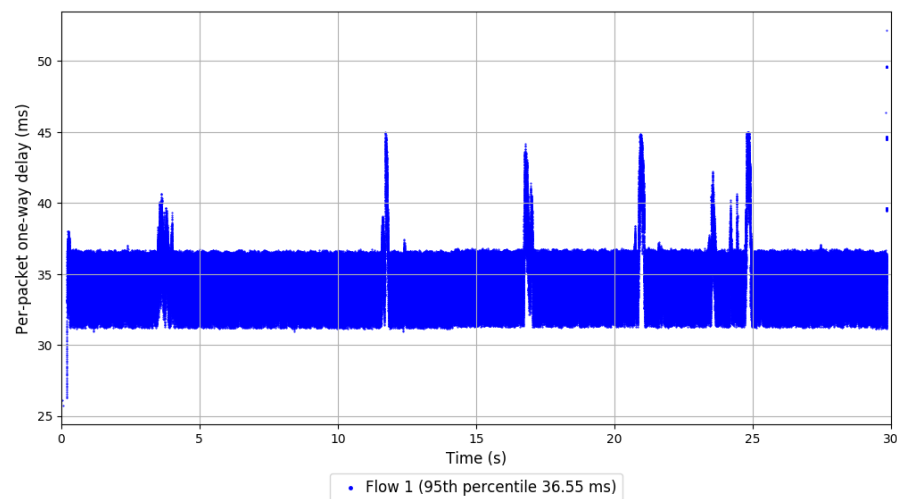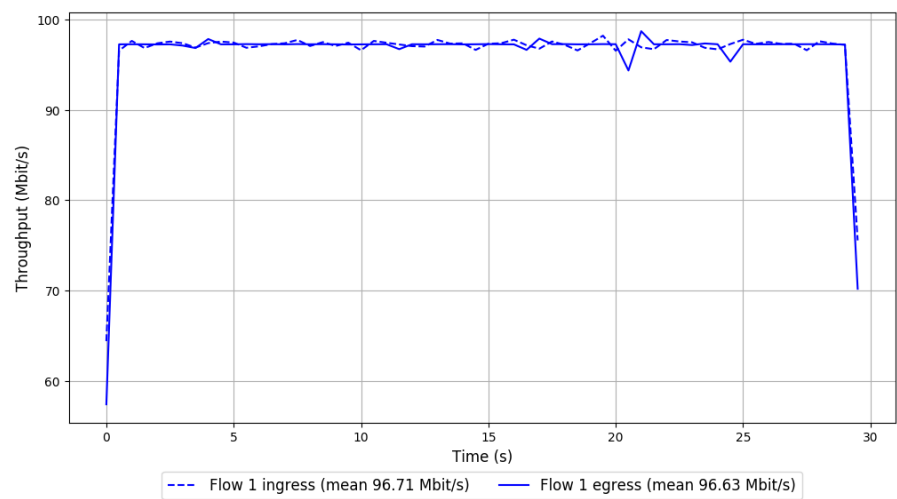Run 8: Report of FillP — Data Link

```
Run 9: Statistics of FillP

Start at: 2017-12-19 22:15:42
End at: 2017-12-19 22:16:12
Local clock offset: -3.613 ms
Remote clock offset: -4.574 ms


# Below is generated by plot.py at 2017-12-20 02:20:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.63 Mbit/s
95th percentile per-packet one-way delay: 36.545 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 96.63 Mbit/s
95th percentile per-packet one-way delay: 36.545 ms
Loss rate: 0.28%
```

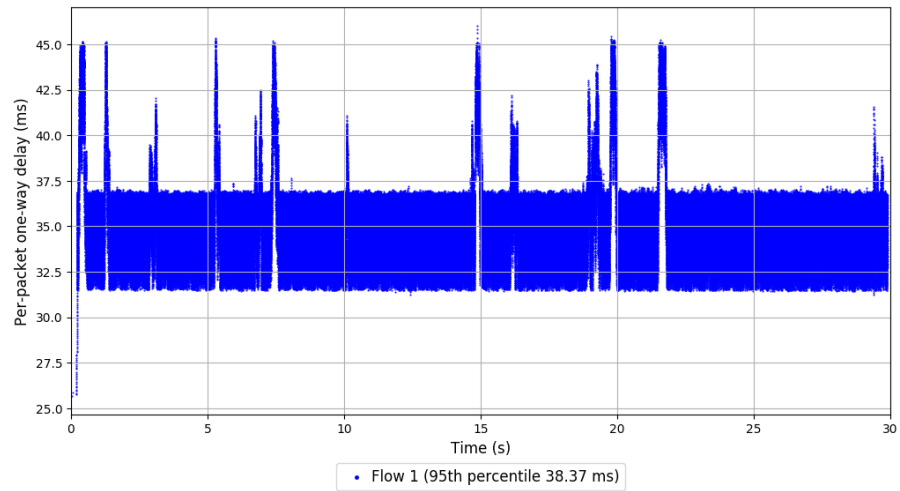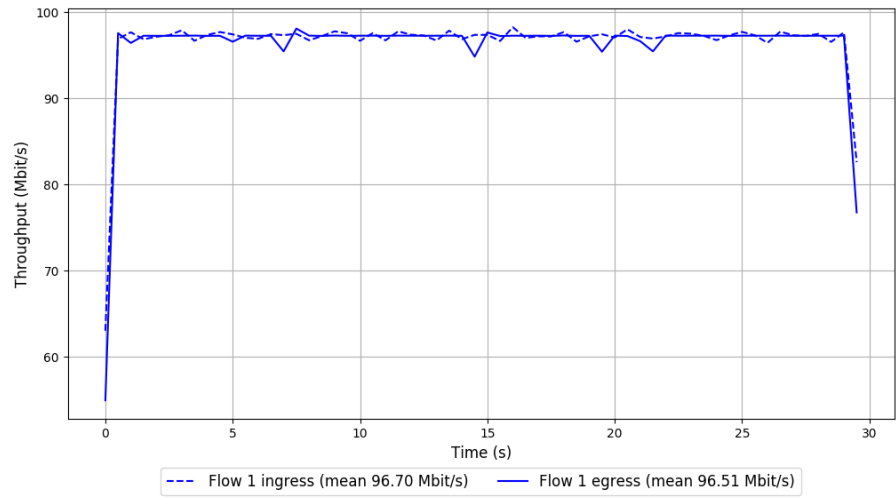Run 9: Report of FillP — Data Link

```
Run 10: Statistics of FillP

Start at: 2017-12-19 22:35:45
End at: 2017-12-19 22:36:15
Local clock offset: -1.759 ms
Remote clock offset: -5.636 ms

# Below is generated by plot.py at 2017-12-20 02:20:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 38.367 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 38.367 ms
Loss rate: 0.39%
```

Run 10: Report of FillP — Data Link

Flow 1 ingress (mean 96.70 Mbit/s) — — — Flow 1 egress (mean 96.51 Mbit/s)
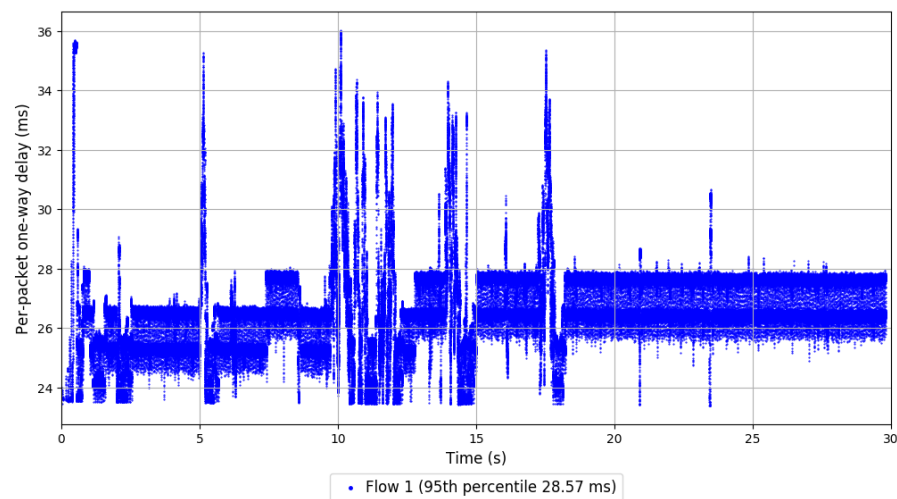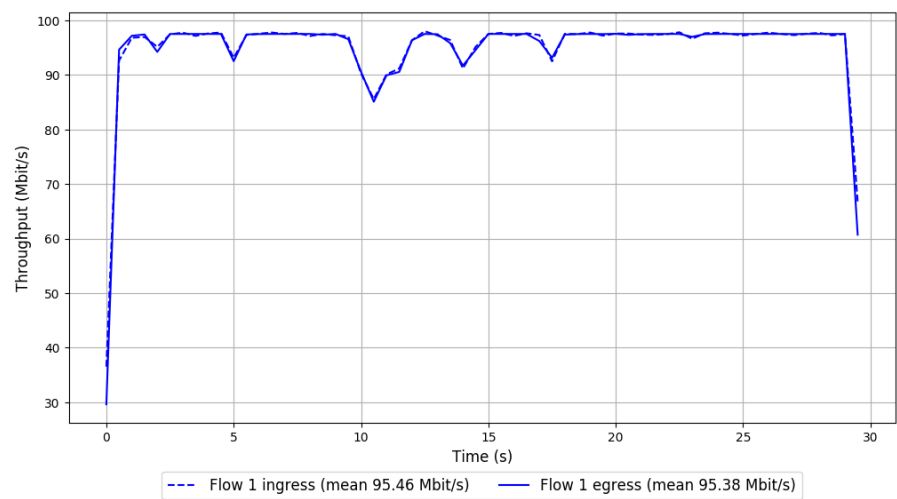

Flow 1 (95th percentile 38.37 ms)

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```
Run 1: Statistics of Indigo

Start at: 2017-12-19 19:33:59
End at: 2017-12-19 19:34:29
Local clock offset: -12.052 ms
Remote clock offset: -1.258 ms

# Below is generated by plot.py at 2017-12-20 02:20:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.38 Mbit/s
95th percentile per-packet one-way delay: 28.575 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 95.38 Mbit/s
95th percentile per-packet one-way delay: 28.575 ms
Loss rate: 0.26%
```

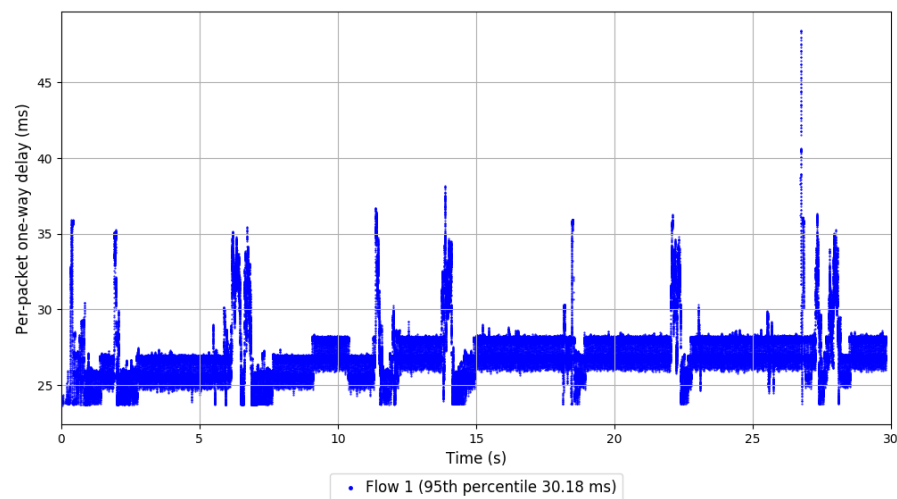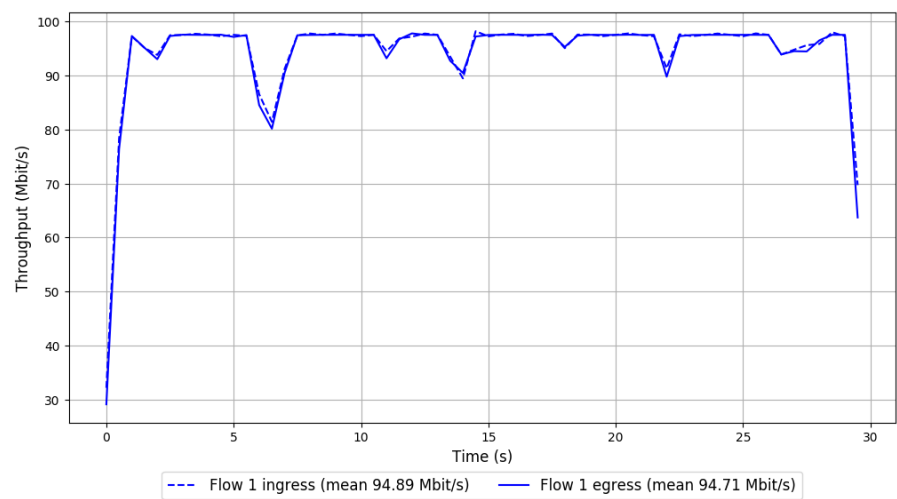Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2017-12-19 19:53:59
End at: 2017-12-19 19:54:29
Local clock offset: -2.425 ms
Remote clock offset: -1.244 ms


# Below is generated by plot.py at 2017-12-20 02:20:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 30.178 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 30.178 ms
Loss rate: 0.37%
```

Run 2: Report of Indigo — Data Link

Flow 1 ingress (mean 94.89 Mbit/s)   Flow 1 egress (mean 94.71 Mbit/s)
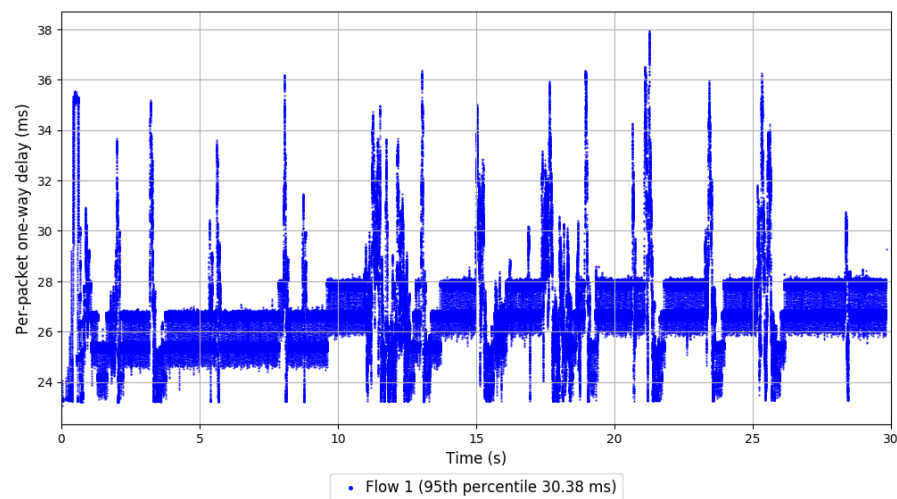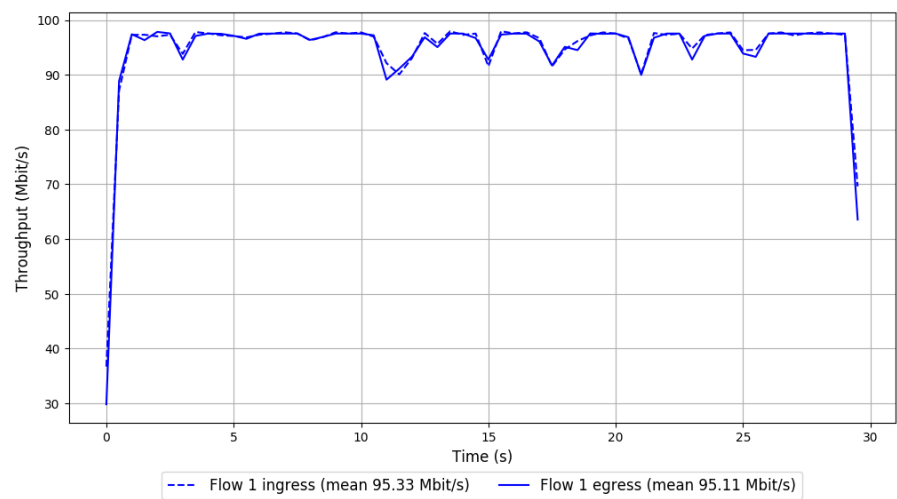

Flow 1 (95th percentile 30.18 ms)

```
Run 3: Statistics of Indigo

Start at: 2017-12-19 20:13:58
End at: 2017-12-19 20:14:28
Local clock offset: -2.428 ms
Remote clock offset: -0.062 ms


# Below is generated by plot.py at 2017-12-20 02:21:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 30.376 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 30.376 ms
Loss rate: 0.40%
```

Run 3: Report of Indigo — Data Link

Flow 1 ingress (mean 95.33 Mbit/s)   Flow 1 egress (mean 95.11 Mbit/s)

Flow 1 (95th percentile 30.38 ms)

```
Run 4: Statistics of Indigo

Start at: 2017-12-19 20:34:06
End at: 2017-12-19 20:34:36
Local clock offset: -3.39 ms
Remote clock offset: -2.554 ms

# Below is generated by plot.py at 2017-12-20 02:21:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.19 Mbit/s
95th percentile per-packet one-way delay: 30.449 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 96.19 Mbit/s
95th percentile per-packet one-way delay: 30.449 ms
Loss rate: 0.23%
```
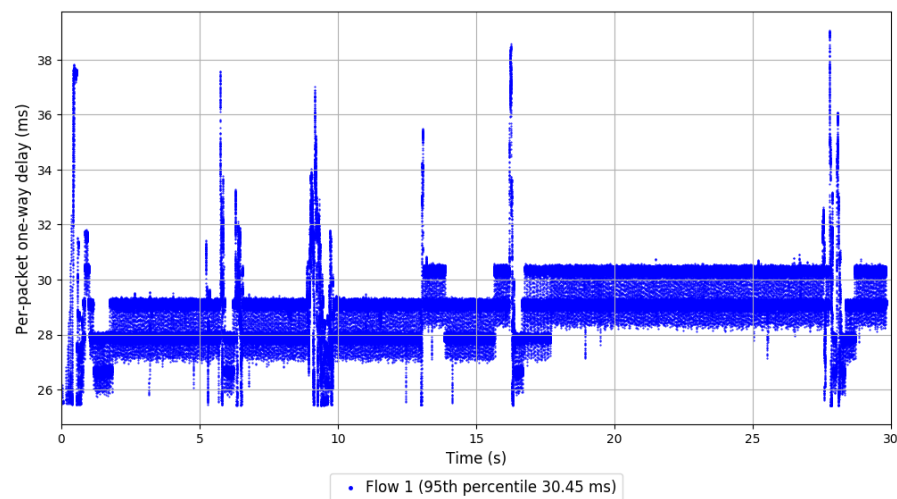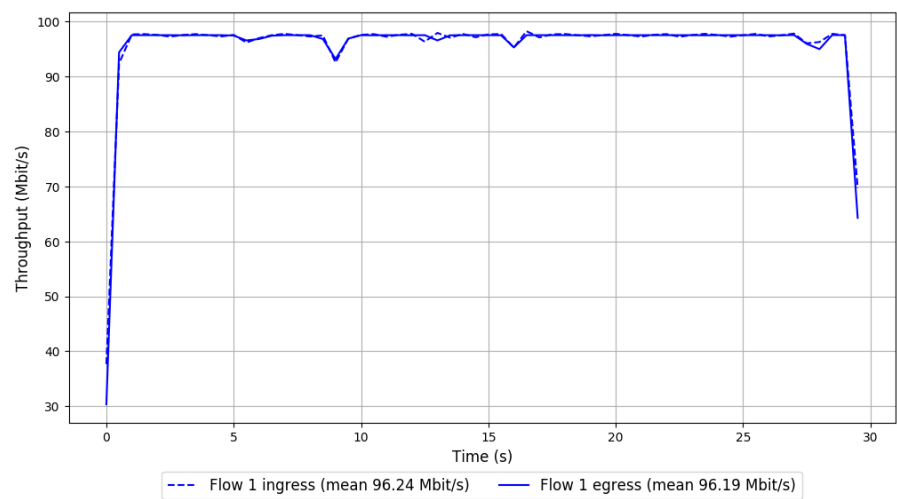
Run 4: Report of Indigo — Data Link

Flow 1 ingress (mean 96.24 Mbit/s)   Flow 1 egress (mean 96.19 Mbit/s)
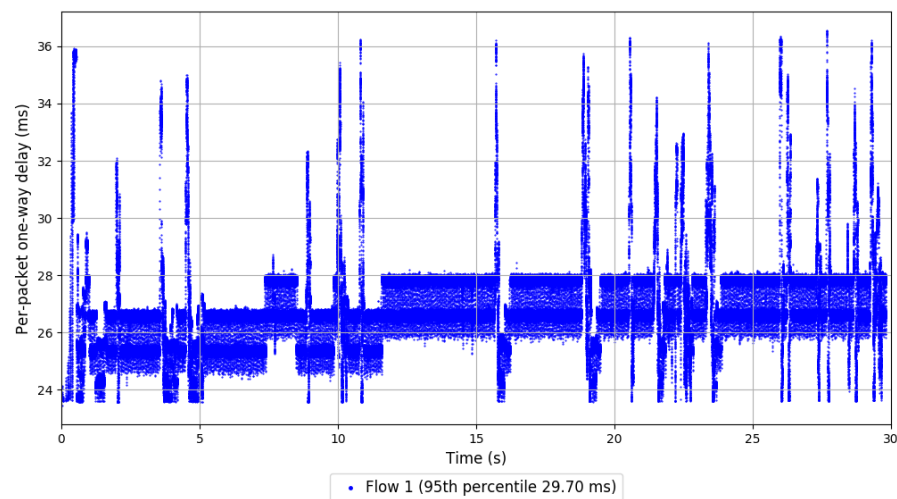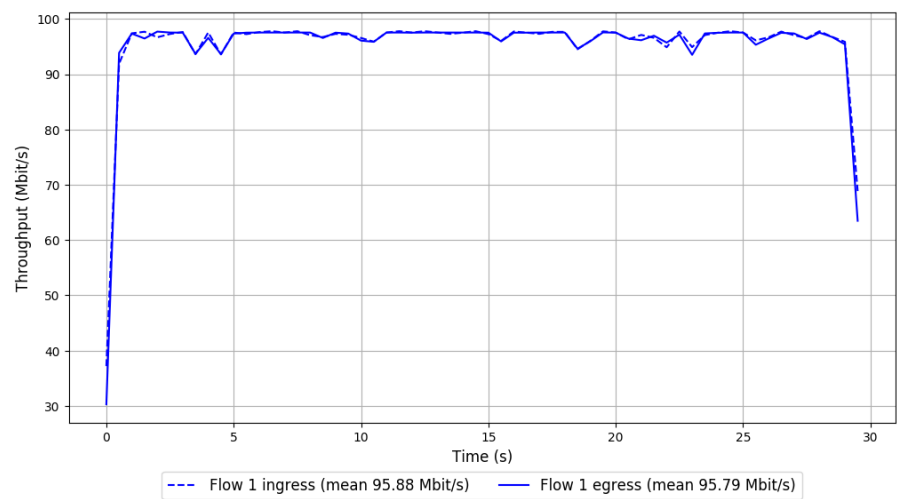

Flow 1 (95th percentile 30.45 ms)

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```
Run 5: Statistics of Indigo

Start at: 2017-12-19 20:54:05
End at: 2017-12-19 20:54:35
Local clock offset: -2.988 ms
Remote clock offset: -1.473 ms


# Below is generated by plot.py at 2017-12-20 02:21:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 29.701 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 29.701 ms
Loss rate: 0.27%
```

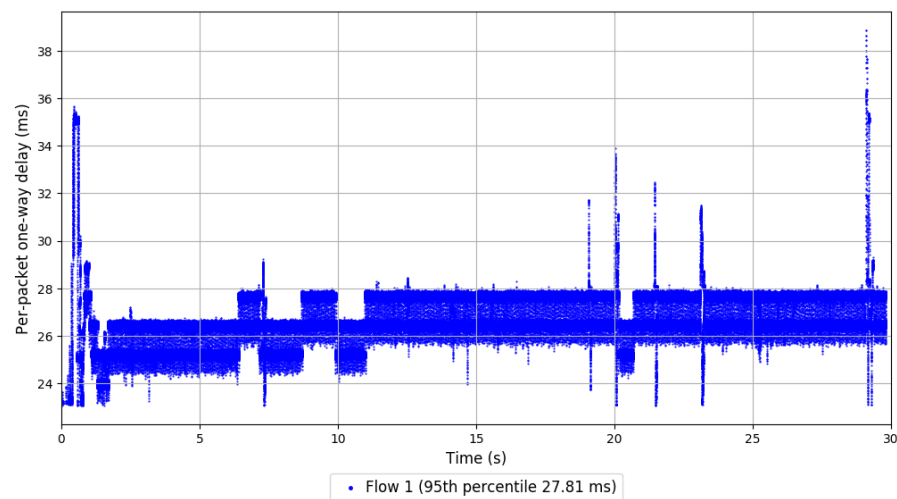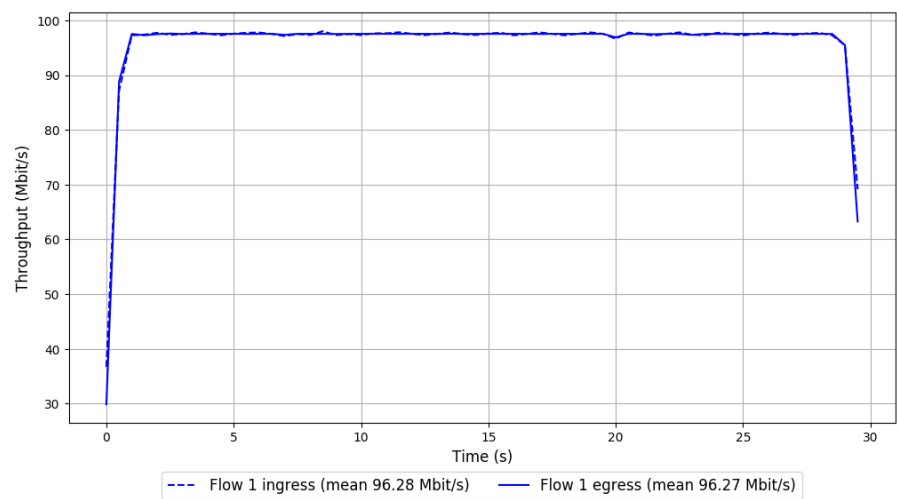Run 5: Report of Indigo — Data Link

```
Run 6: Statistics of Indigo

Start at: 2017-12-19 21:14:21
End at: 2017-12-19 21:14:51
Local clock offset: -2.253 ms
Remote clock offset: -1.322 ms


# Below is generated by plot.py at 2017-12-20 02:21:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 27.814 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 27.814 ms
Loss rate: 0.19%
```
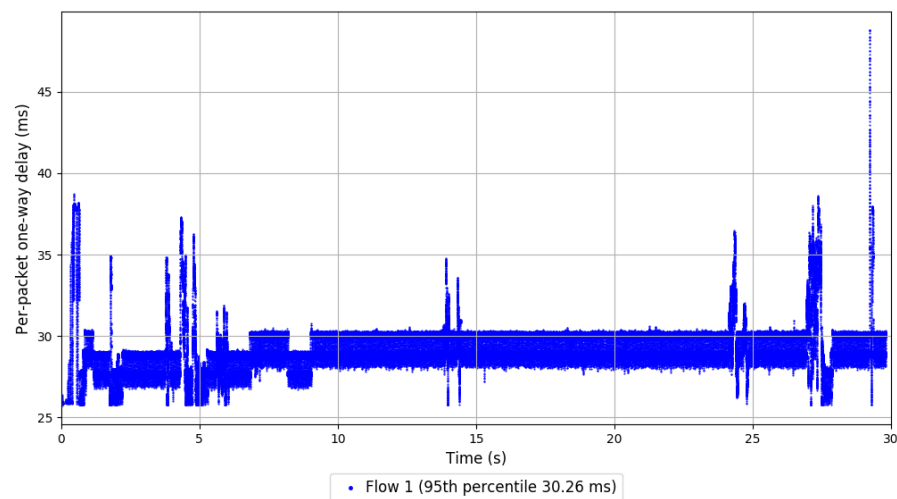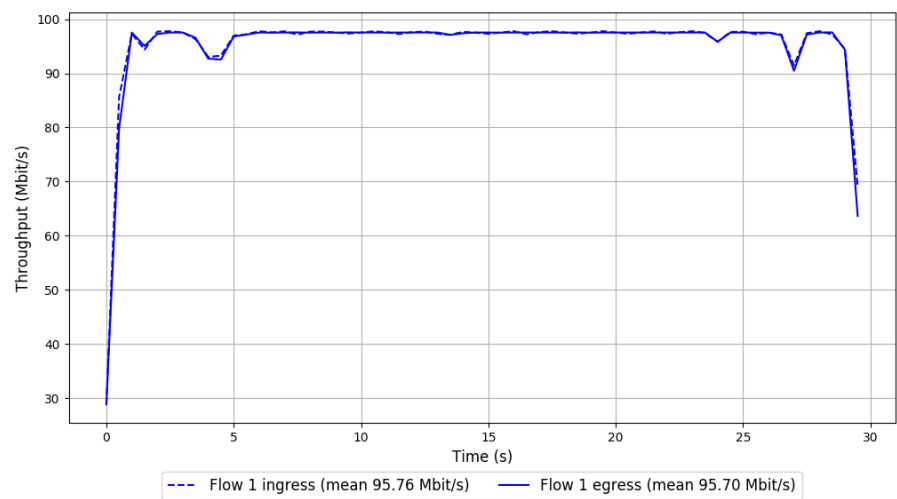
Run 6: Report of Indigo — Data Link

```
Run 7: Statistics of Indigo

Start at: 2017-12-19 21:34:19
End at: 2017-12-19 21:34:49
Local clock offset: -3.541 ms
Remote clock offset: -3.845 ms


# Below is generated by plot.py at 2017-12-20 02:21:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 30.258 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 30.258 ms
Loss rate: 0.24%
```
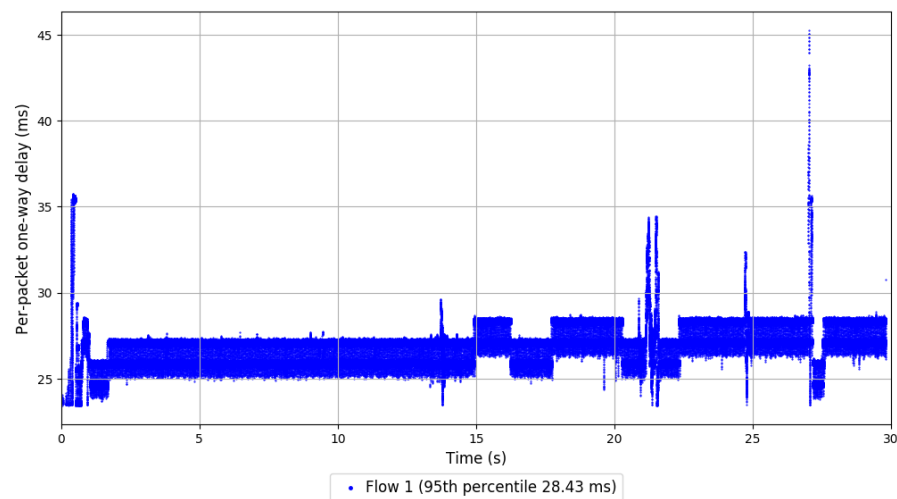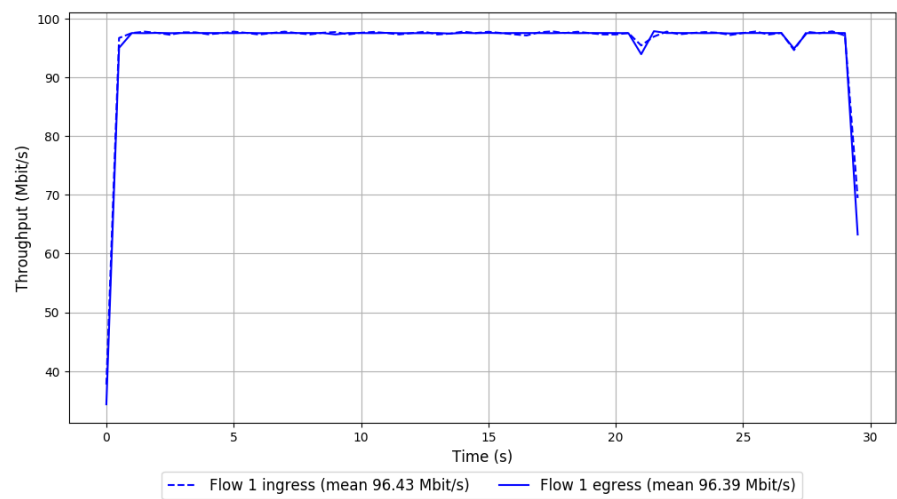
Run 7: Report of Indigo — Data Link

```
Run 8: Statistics of Indigo

Start at: 2017-12-19 21:54:29
End at: 2017-12-19 21:55:00
Local clock offset: -3.763 ms
Remote clock offset: -1.643 ms


# Below is generated by plot.py at 2017-12-20 02:21:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 28.435 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 28.435 ms
Loss rate: 0.21%
```
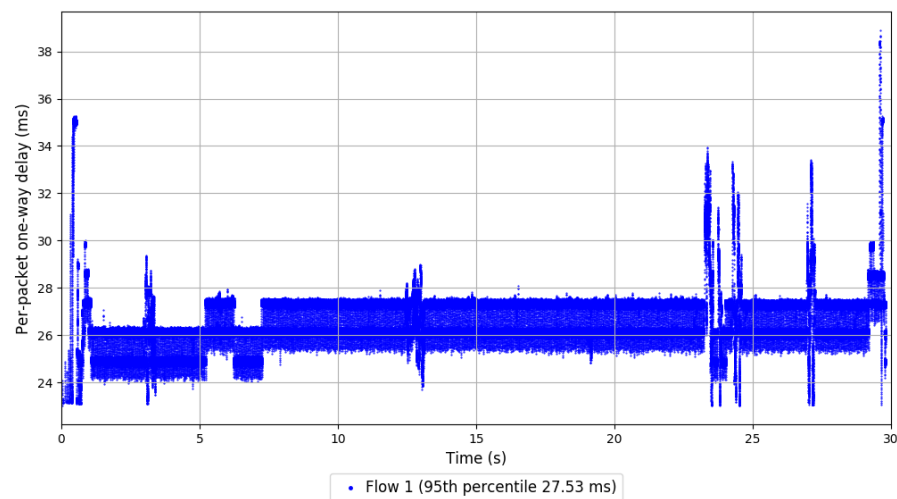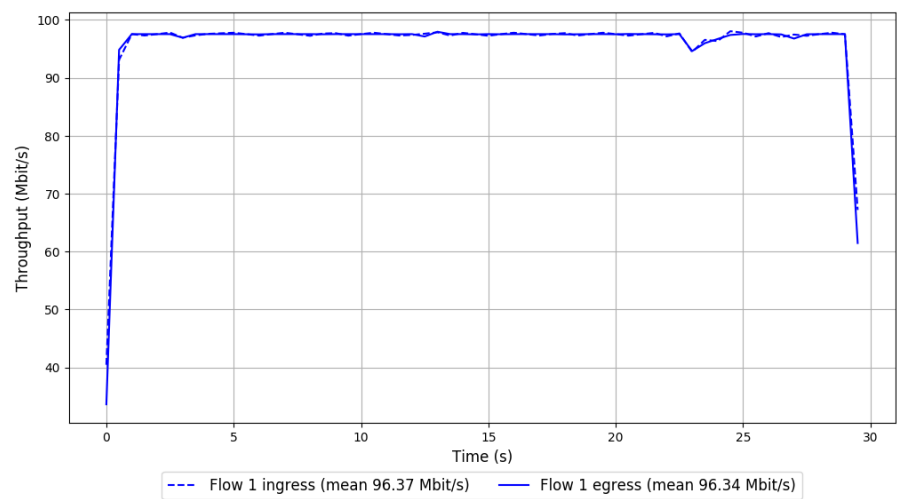
Run 8: Report of Indigo — Data Link

```
Run 9: Statistics of Indigo

Start at: 2017-12-19 22:14:20
End at: 2017-12-19 22:14:50
Local clock offset: -3.741 ms
Remote clock offset: -2.097 ms


# Below is generated by plot.py at 2017-12-20 02:21:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 27.533 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 27.533 ms
Loss rate: 0.20%
```

Run 9: Report of Indigo — Data Link

```
Run 10: Statistics of Indigo

Start at: 2017-12-19 22:34:23
End at: 2017-12-19 22:34:53
Local clock offset: -1.824 ms
Remote clock offset: -3.465 ms

# Below is generated by plot.py at 2017-12-20 02:21:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 27.951 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 27.951 ms
Loss rate: 0.24%
```

Run 10: Report of Indigo — Data Link

Flow 1 ingress (mean 95.93 Mbit/s) — Flow 1 egress (mean 95.87 Mbit/s)

• Flow 1 (95th percentile 27.95 ms)