Pantheon Report

Generated at 2017-09-03 10:05:39 (UTC).

Data path: AWS Brazil 1 Ethernet (*local*) →Brazil Ethernet (*remote*).

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

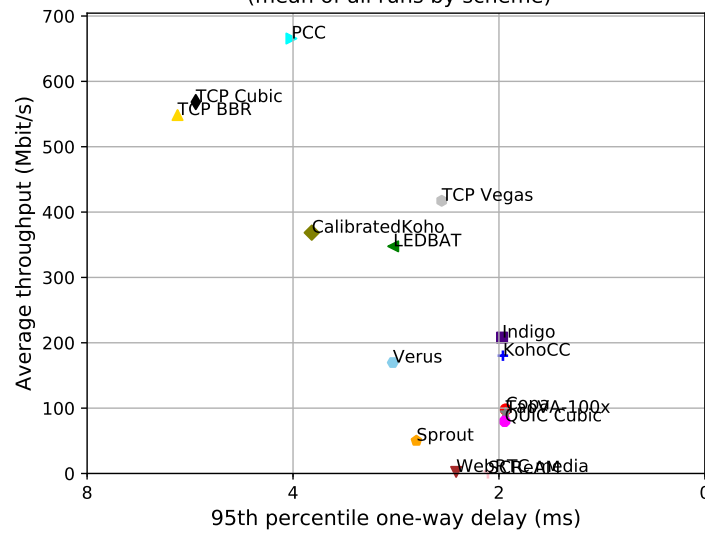Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

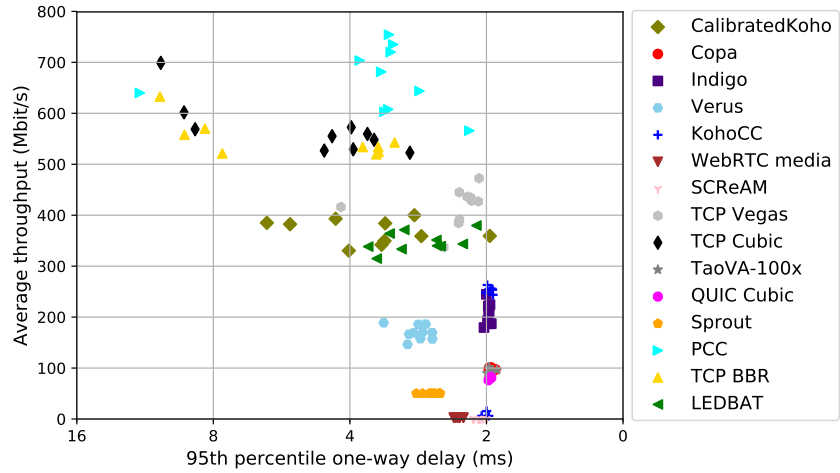NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: master @ 2a98508c2457474d84cd2966a42b80b0bc62ecaf
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ 10192113fb6902d25c86e0e3e4c85d7a05e43d7e
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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 AWS Brazil 1 Ethernet to Brazil Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)

test from AWS Brazil 1 Ethernet to Brazil Ethernet, 10 runs of 30s each per scheme

2

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	9	548.48	5.90	0.00
CalibratedKoho	10	368.47	3.76	0.00
Copa	8	97.98	1.93	0.00
TCP Cubic	10	568.36	5.55	0.00
Indigo	10	207.93	1.97	0.00
KohoCC	10	180.26	1.96	0.00
LEDBAT	10	347.59	2.86	0.00
PCC	10	665.56	4.02	0.00
QUIC Cubic	3	79.83	1.94	0.00
SCReAM	10	0.22	2.08	0.00
Sprout	10	50.21	2.64	0.00
TaoVA-100x	10	92.77	1.94	0.00
TCP Vegas	10	417.27	2.43	0.00
Verus	10	169.76	2.86	0.00
WebRTC media	10	2.42	2.31	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2017-09-03 04:21:21
End at: 2017-09-03 04:21:51
Local clock offset: -3.566 ms
Remote clock offset: 0.08 ms


# Below is generated by plot.py at 2017-09-03 09:23:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 533.54 Mbit/s
95th percentile per-packet one-way delay: 3.464 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 533.54 Mbit/s
95th percentile per-packet one-way delay: 3.464 ms
Loss rate: 0.00%
```
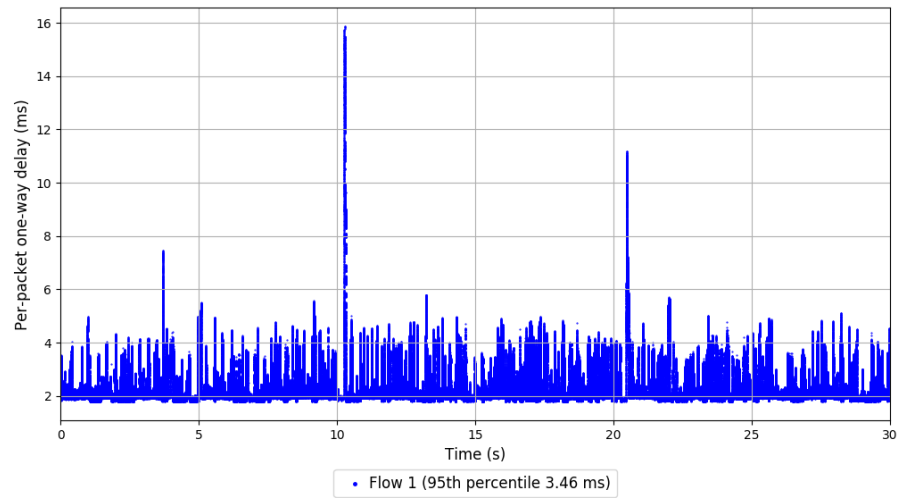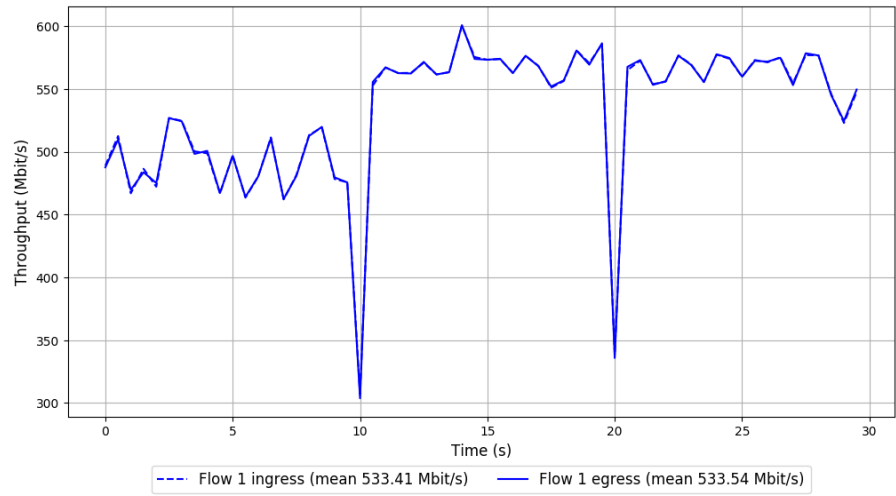
Run 1: Report of TCP BBR — Data Link

Run 2: Statistics of TCP BBR

Start at: 2017-09-03 04:40:29
End at: 2017-09-03 04:40:59
Local clock offset: -3.498 ms
Remote clock offset: 0.013 ms
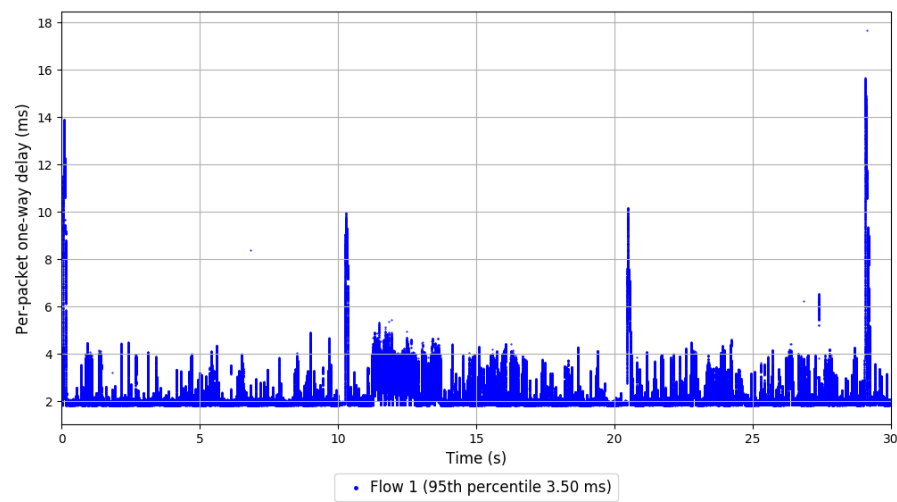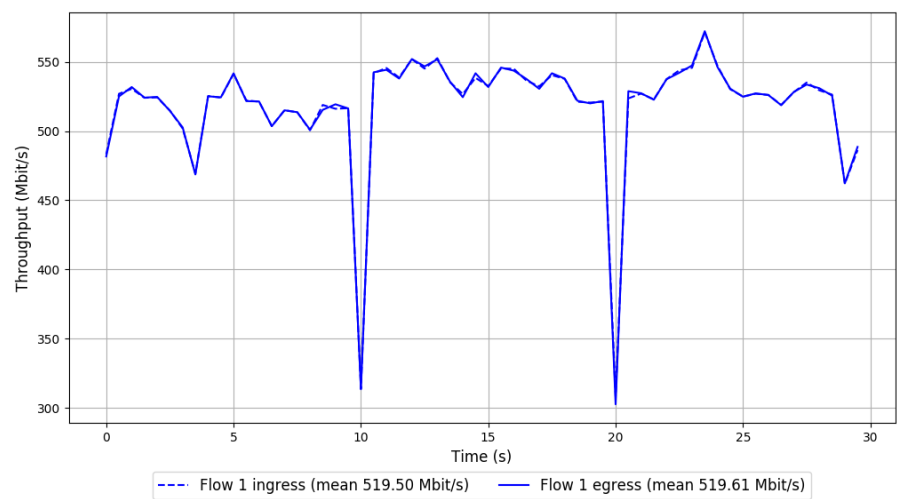
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2017-09-03 04:59:25
End at: 2017-09-03 04:59:55
Local clock offset: -3.229 ms
Remote clock offset: -0.047 ms


# Below is generated by plot.py at 2017-09-03 09:23:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 519.61 Mbit/s
95th percentile per-packet one-way delay: 3.496 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 519.61 Mbit/s
95th percentile per-packet one-way delay: 3.496 ms
Loss rate: 0.00%
```

Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 519.50 Mbit/s)   Flow 1 egress (mean 519.61 Mbit/s)
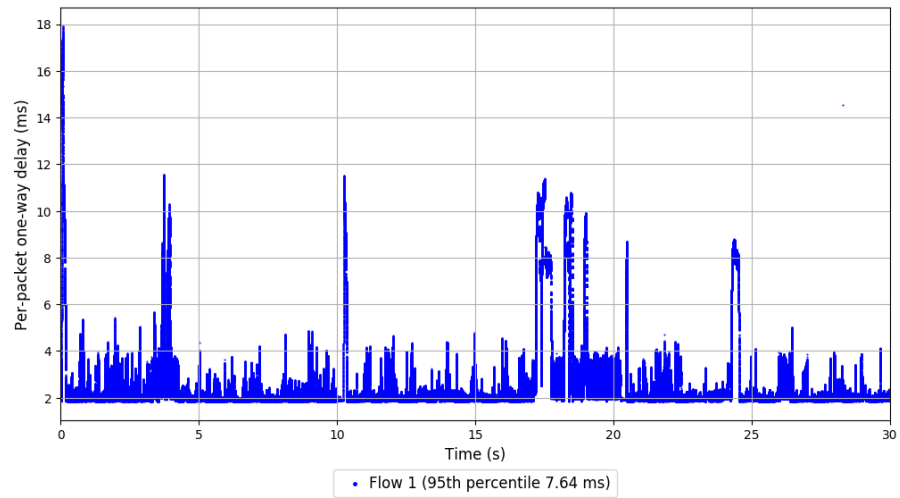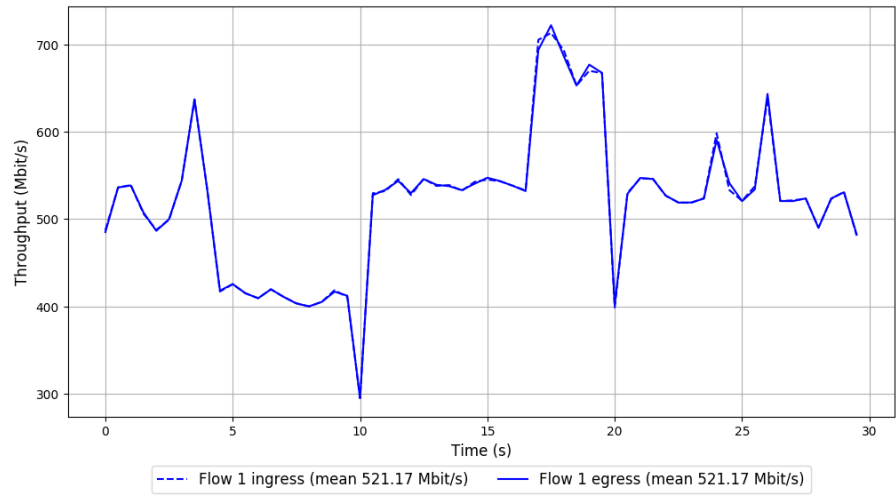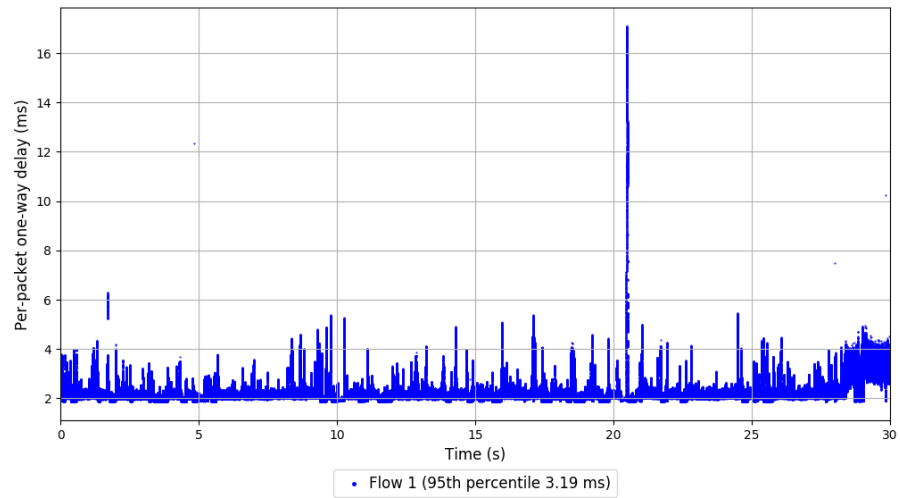

Flow 1 (95th percentile 3.50 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2017-09-03 05:18:27
End at: 2017-09-03 05:18:58
Local clock offset: -3.107 ms
Remote clock offset: -0.092 ms


# Below is generated by plot.py at 2017-09-03 09:24:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 521.17 Mbit/s
95th percentile per-packet one-way delay: 7.643 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 521.17 Mbit/s
95th percentile per-packet one-way delay: 7.643 ms
Loss rate: 0.00%
```
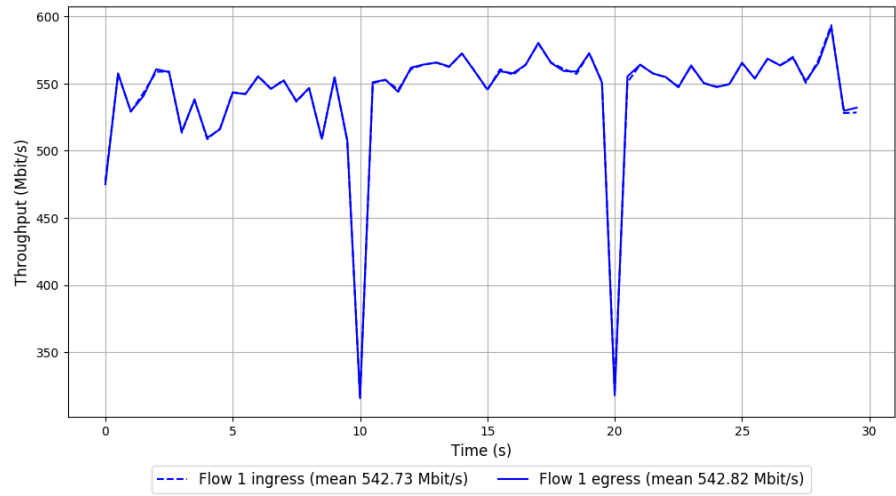
Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2017-09-03 05:37:31
End at: 2017-09-03 05:38:02
Local clock offset: -3.043 ms
Remote clock offset: -0.117 ms


# Below is generated by plot.py at 2017-09-03 09:24:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 542.82 Mbit/s
95th percentile per-packet one-way delay: 3.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 542.82 Mbit/s
95th percentile per-packet one-way delay: 3.188 ms
Loss rate: 0.00%
```
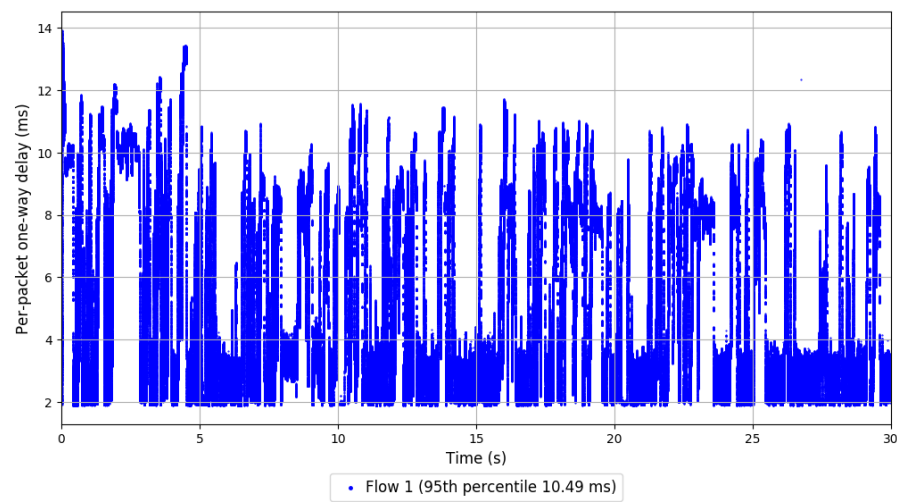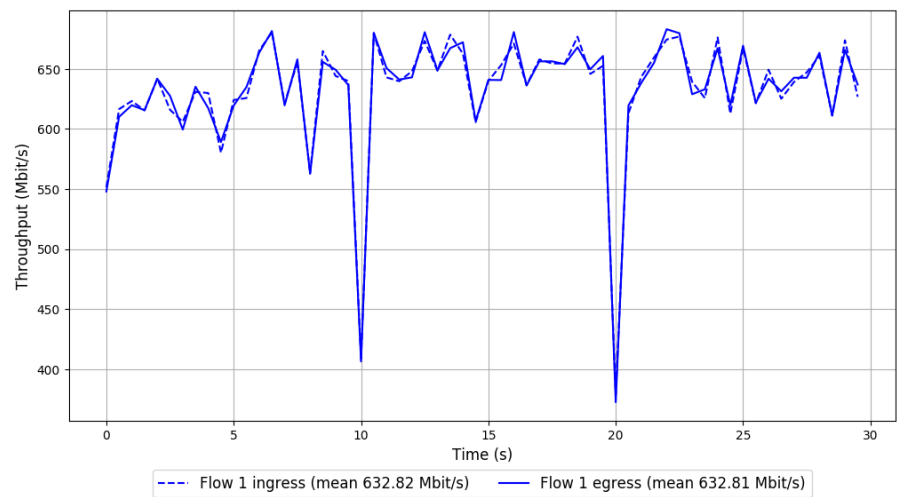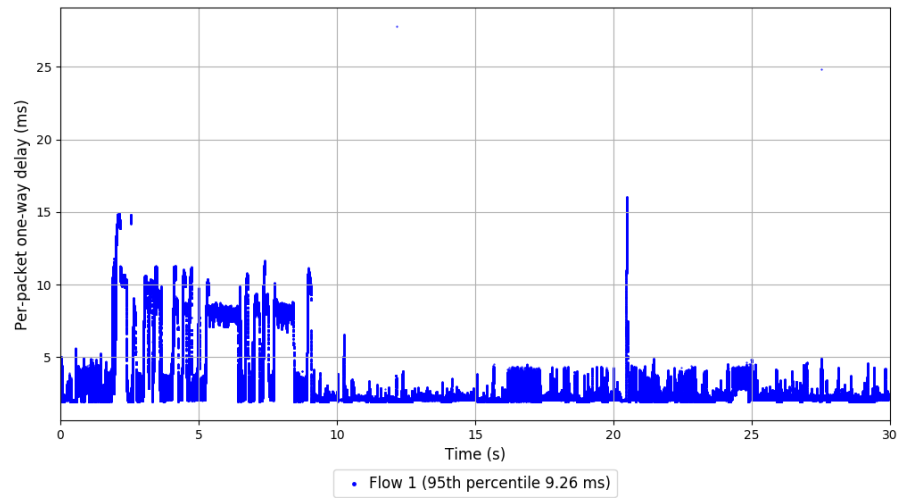
Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 542.73 Mbit/s) —— Flow 1 egress (mean 542.82 Mbit/s)

• Flow 1 (95th percentile 3.19 ms)

13

```
Run 6: Statistics of TCP BBR

Start at: 2017-09-03 05:56:52
End at: 2017-09-03 05:57:22
Local clock offset: -2.835 ms
Remote clock offset: -0.067 ms


# Below is generated by plot.py at 2017-09-03 09:25:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 632.81 Mbit/s
95th percentile per-packet one-way delay: 10.493 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 632.81 Mbit/s
95th percentile per-packet one-way delay: 10.493 ms
Loss rate: 0.00%
```

Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 632.82 Mbit/s)   Flow 1 egress (mean 632.81 Mbit/s)
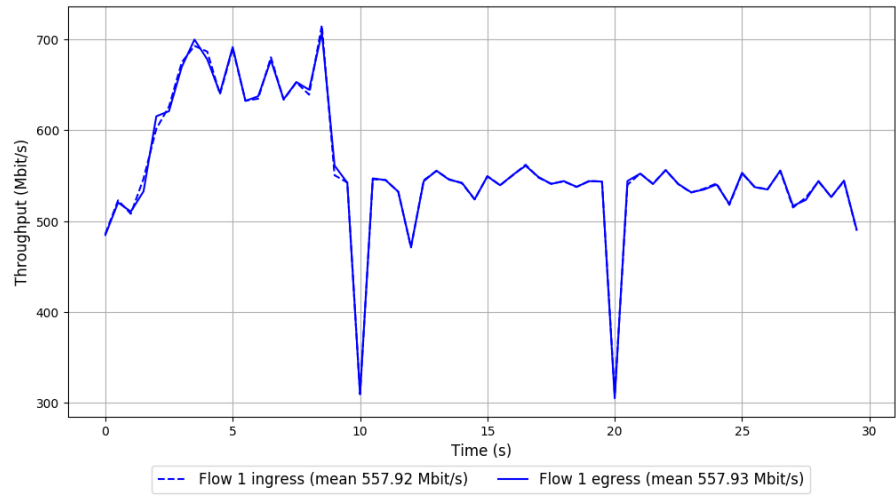

Flow 1 (95th percentile 10.49 ms)

```
Run 7: Statistics of TCP BBR

Start at: 2017-09-03 06:16:10
End at: 2017-09-03 06:16:40
Local clock offset: -2.738 ms
Remote clock offset: -0.032 ms


# Below is generated by plot.py at 2017-09-03 09:26:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 557.93 Mbit/s
95th percentile per-packet one-way delay: 9.262 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 557.93 Mbit/s
95th percentile per-packet one-way delay: 9.262 ms
Loss rate: 0.00%
```

Run 7: Report of TCP BBR — Data Link

```
Run 8: Statistics of TCP BBR

Start at: 2017-09-03 06:35:24
End at: 2017-09-03 06:35:54
Local clock offset: -2.631 ms
Remote clock offset: 0.049 ms


# Below is generated by plot.py at 2017-09-03 09:26:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 533.90 Mbit/s
95th percentile per-packet one-way delay: 3.748 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 533.90 Mbit/s
95th percentile per-packet one-way delay: 3.748 ms
Loss rate: 0.00%
```
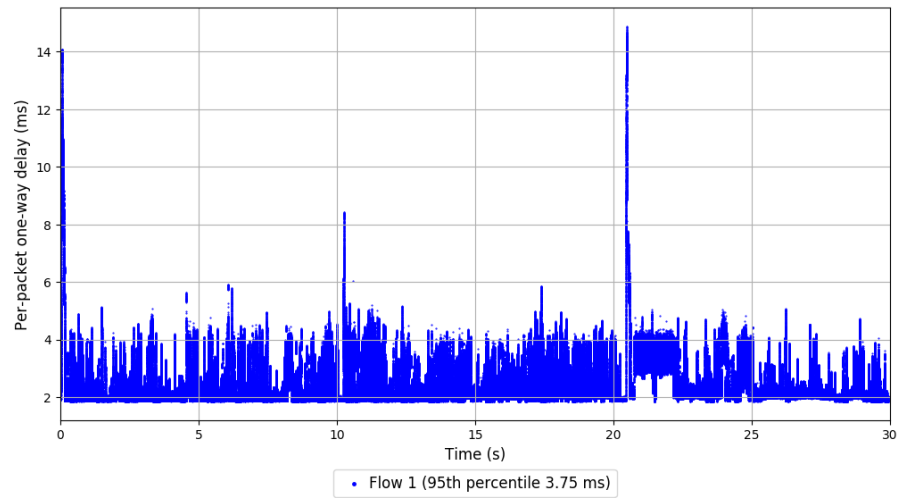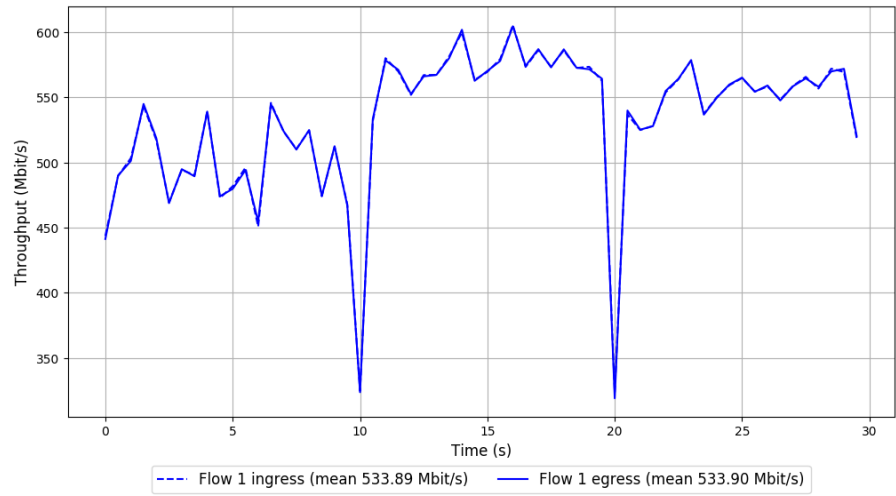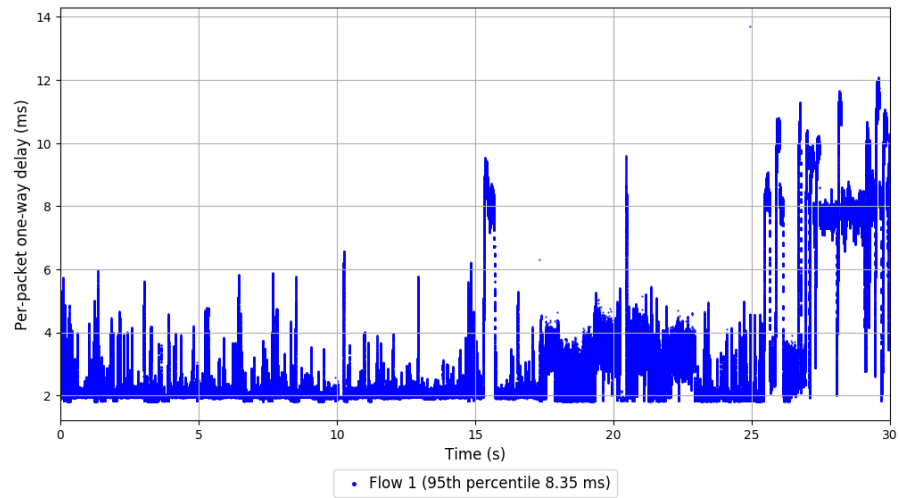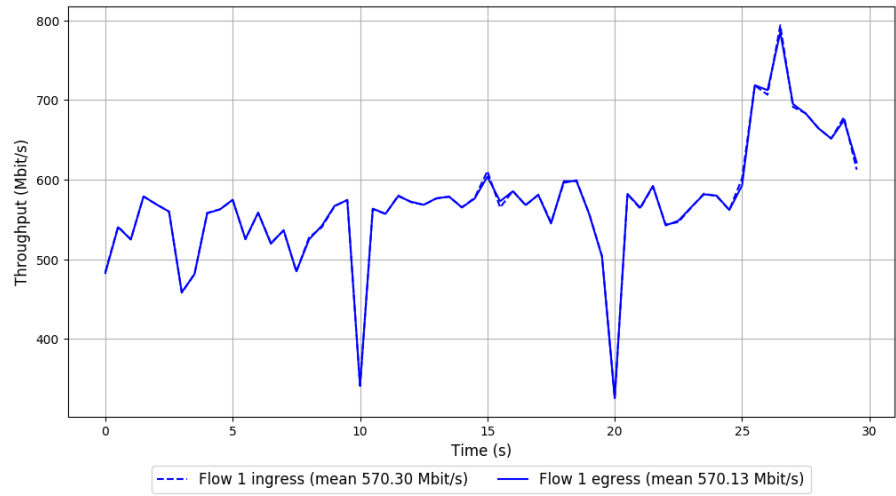
Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 533.89 Mbit/s)   Flow 1 egress (mean 533.90 Mbit/s)

Flow 1 (95th percentile 3.75 ms)

```
Run 9: Statistics of TCP BBR

Start at: 2017-09-03 06:54:42
End at: 2017-09-03 06:55:12
Local clock offset: -2.66 ms
Remote clock offset: 0.032 ms


# Below is generated by plot.py at 2017-09-03 09:27:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 570.13 Mbit/s
95th percentile per-packet one-way delay: 8.351 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 570.13 Mbit/s
95th percentile per-packet one-way delay: 8.351 ms
Loss rate: 0.02%
```
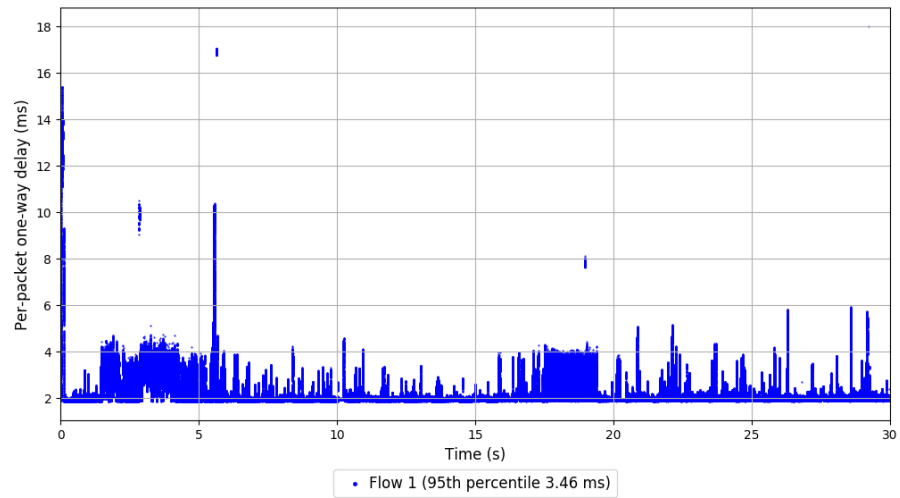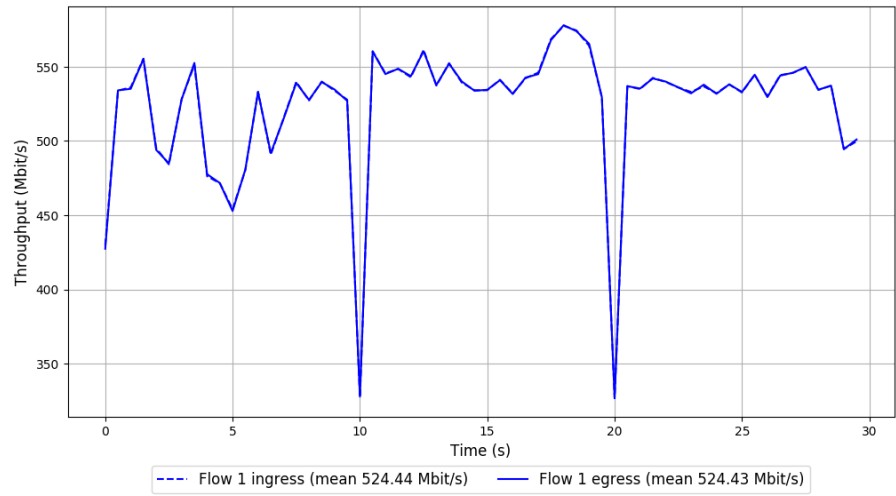
Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 570.30 Mbit/s) —— Flow 1 egress (mean 570.13 Mbit/s)

• Flow 1 (95th percentile 8.35 ms)

```
Run 10: Statistics of TCP BBR

Start at: 2017-09-03 07:13:58
End at: 2017-09-03 07:14:28
Local clock offset: -2.399 ms
Remote clock offset: -0.069 ms


# Below is generated by plot.py at 2017-09-03 09:28:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 524.43 Mbit/s
95th percentile per-packet one-way delay: 3.458 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 524.43 Mbit/s
95th percentile per-packet one-way delay: 3.458 ms
Loss rate: 0.00%
```

Run 10: Report of TCP BBR — Data Link

```
Run 1: Statistics of CalibratedKoho

Start at: 2017-09-03 04:07:15
End at: 2017-09-03 04:07:45
Local clock offset: -3.596 ms
Remote clock offset: 0.267 ms


# Below is generated by plot.py at 2017-09-03 09:28:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.99 Mbit/s
95th percentile per-packet one-way delay: 3.406 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 341.99 Mbit/s
95th percentile per-packet one-way delay: 3.406 ms
Loss rate: 0.00%
```
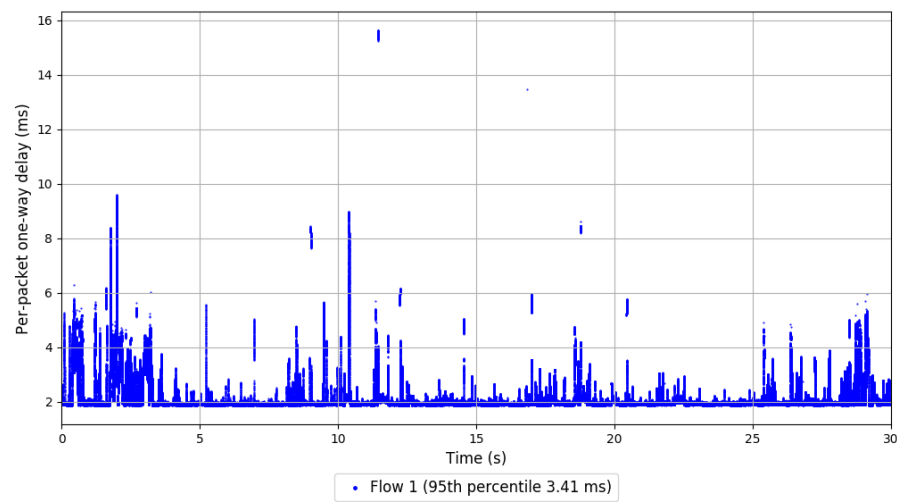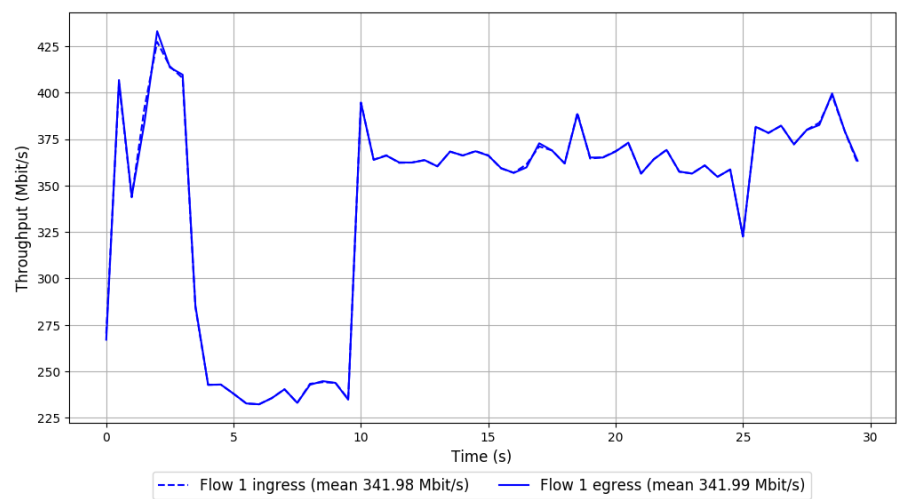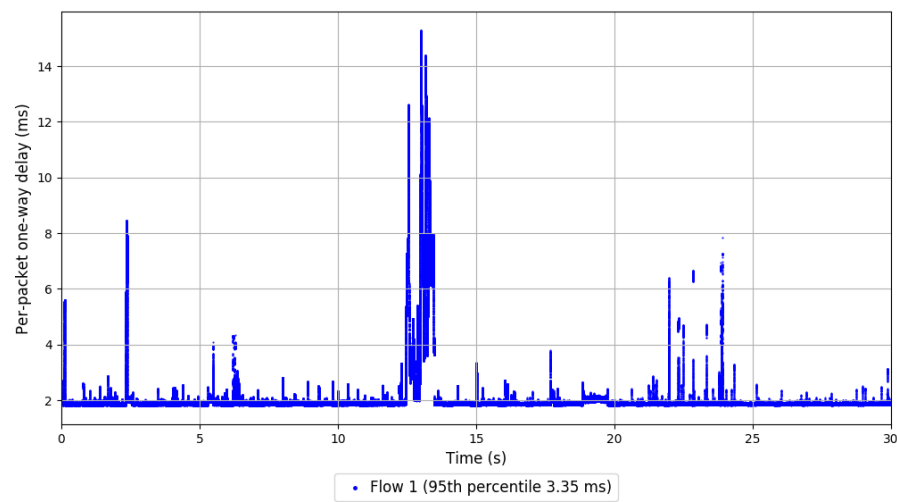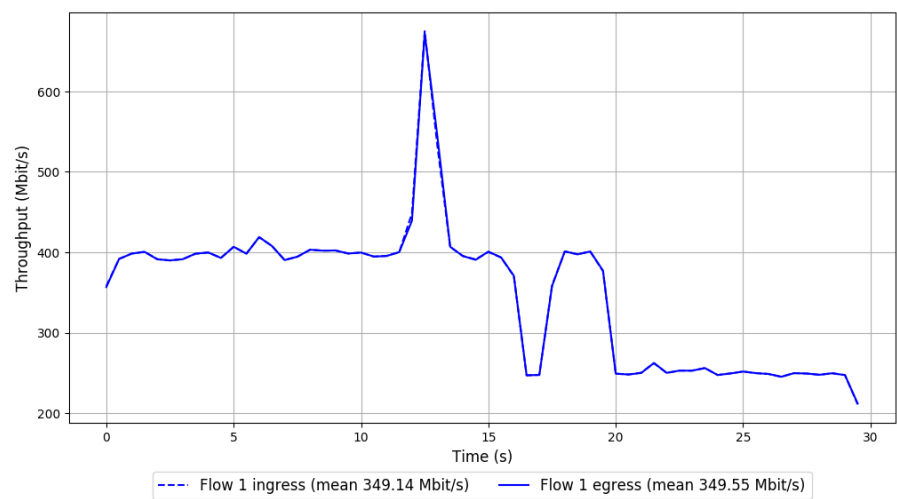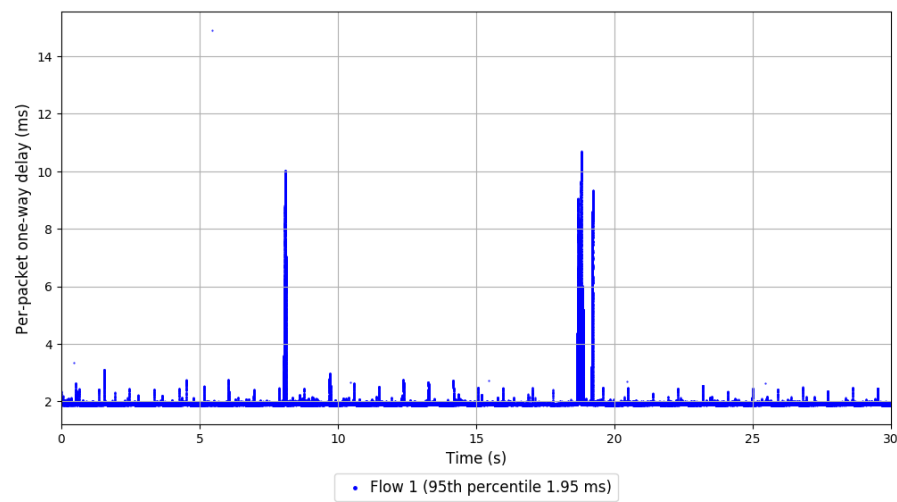
Run 1: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 341.98 Mbit/s) —— Flow 1 egress (mean 341.99 Mbit/s)

• Flow 1 (95th percentile 3.41 ms)

```
Run 2: Statistics of CalibratedKoho

Start at: 2017-09-03 04:26:24
End at: 2017-09-03 04:26:54
Local clock offset: -3.551 ms
Remote clock offset: 0.035 ms


# Below is generated by plot.py at 2017-09-03 09:28:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 349.55 Mbit/s
95th percentile per-packet one-way delay: 3.355 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 349.55 Mbit/s
95th percentile per-packet one-way delay: 3.355 ms
Loss rate: 0.00%
```
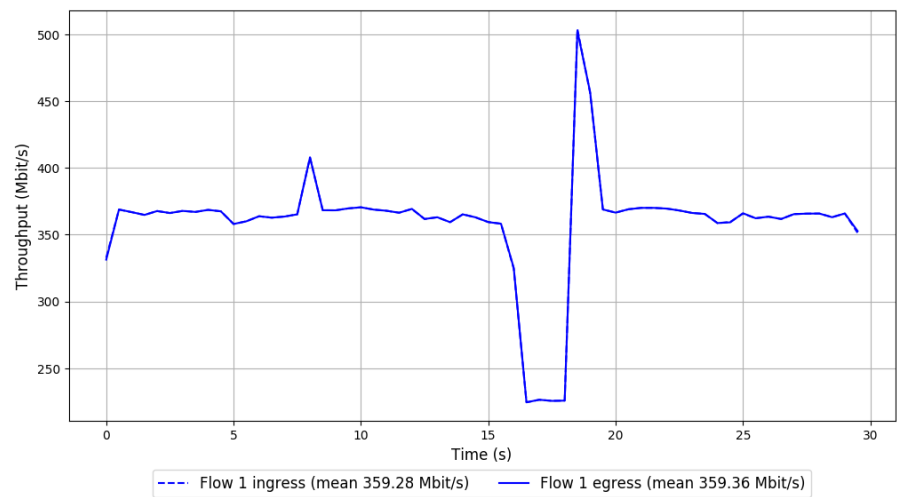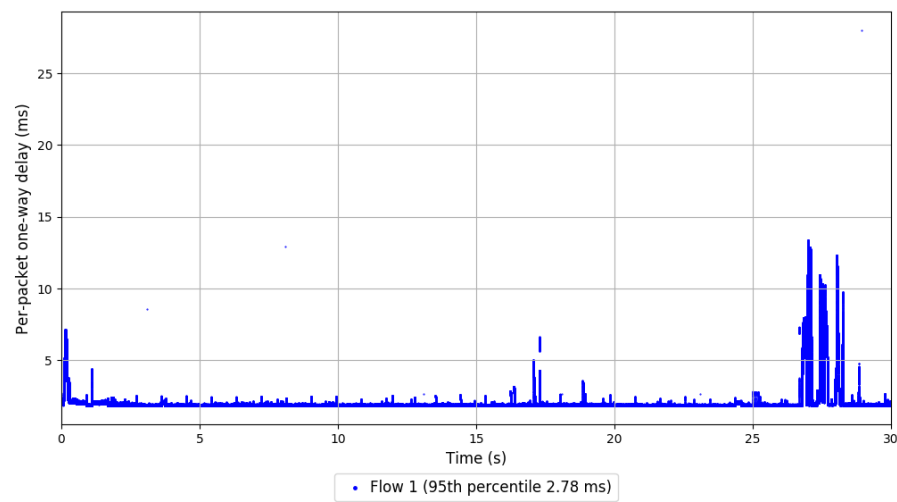
Run 2: Report of CalibratedKoho — Data Link

```
Run 3: Statistics of CalibratedKoho

Start at: 2017-09-03 04:45:21
End at: 2017-09-03 04:45:51
Local clock offset: -3.377 ms
Remote clock offset: -0.005 ms


# Below is generated by plot.py at 2017-09-03 09:29:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.36 Mbit/s
95th percentile per-packet one-way delay: 1.951 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 359.36 Mbit/s
95th percentile per-packet one-way delay: 1.951 ms
Loss rate: 0.00%
```

Run 3: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 359.28 Mbit/s) ---- Flow 1 egress (mean 359.36 Mbit/s)
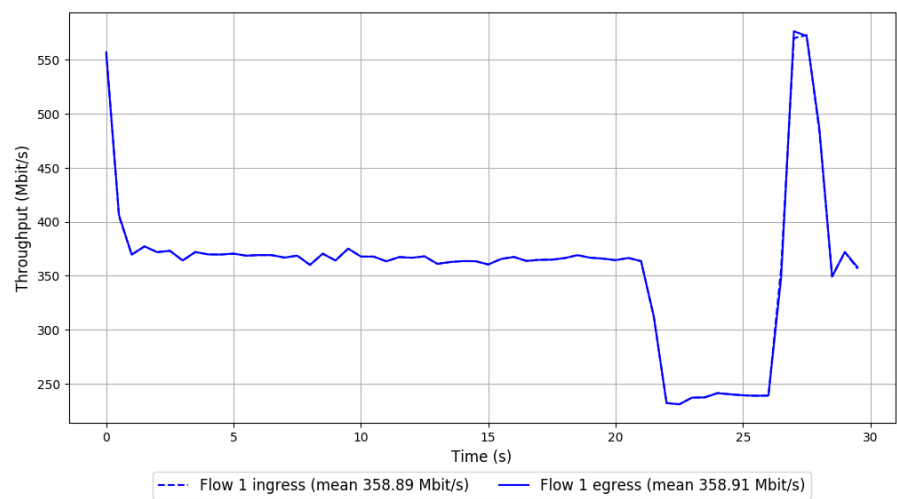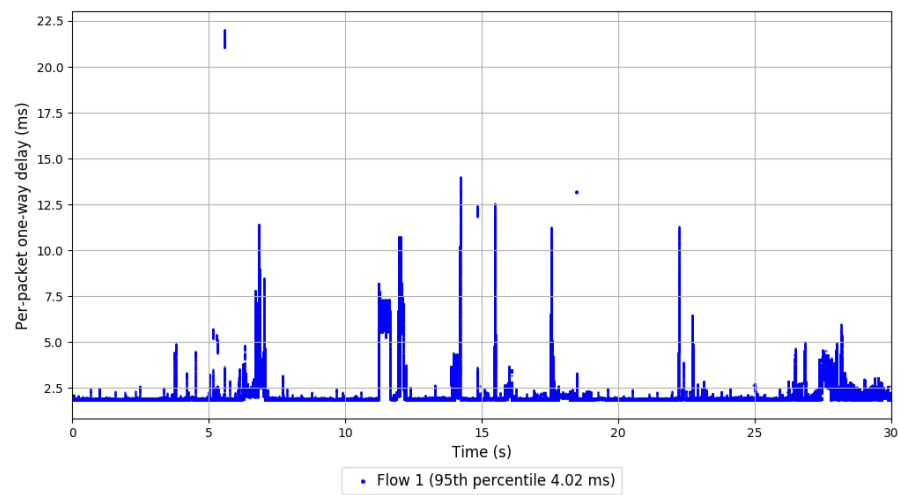

• Flow 1 (95th percentile 1.95 ms)

```
Run 4: Statistics of CalibratedKoho

Start at: 2017-09-03 05:04:28
End at: 2017-09-03 05:04:58
Local clock offset: -3.159 ms
Remote clock offset: -0.018 ms


# Below is generated by plot.py at 2017-09-03 09:29:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 358.91 Mbit/s
95th percentile per-packet one-way delay: 2.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 358.91 Mbit/s
95th percentile per-packet one-way delay: 2.783 ms
Loss rate: 0.00%
```
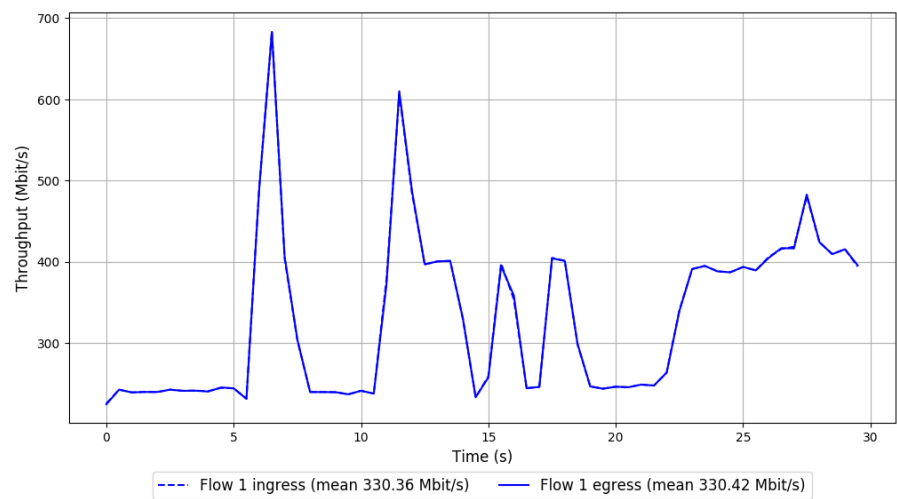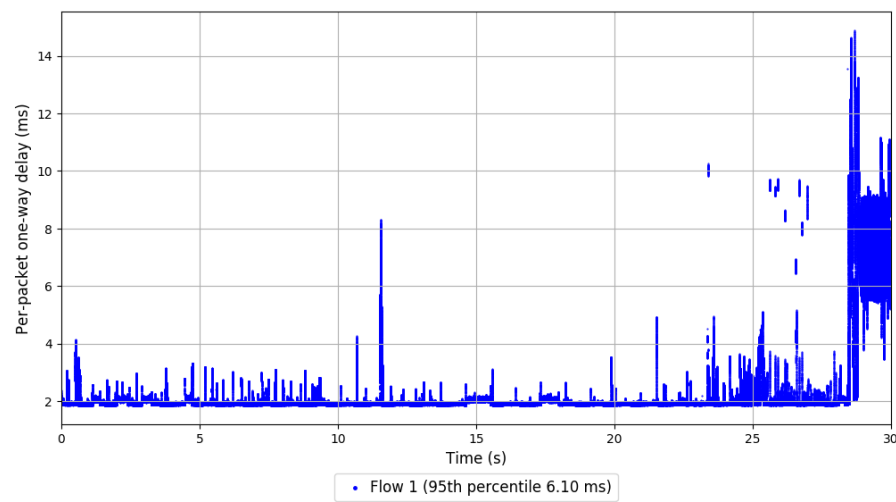
Run 4: Report of CalibratedKoho — Data Link

```
Run 5: Statistics of CalibratedKoho

Start at: 2017-09-03 05:23:33
End at: 2017-09-03 05:24:03
Local clock offset: -3.114 ms
Remote clock offset: -0.129 ms


# Below is generated by plot.py at 2017-09-03 09:29:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.42 Mbit/s
95th percentile per-packet one-way delay: 4.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 330.42 Mbit/s
95th percentile per-packet one-way delay: 4.021 ms
Loss rate: 0.00%
```
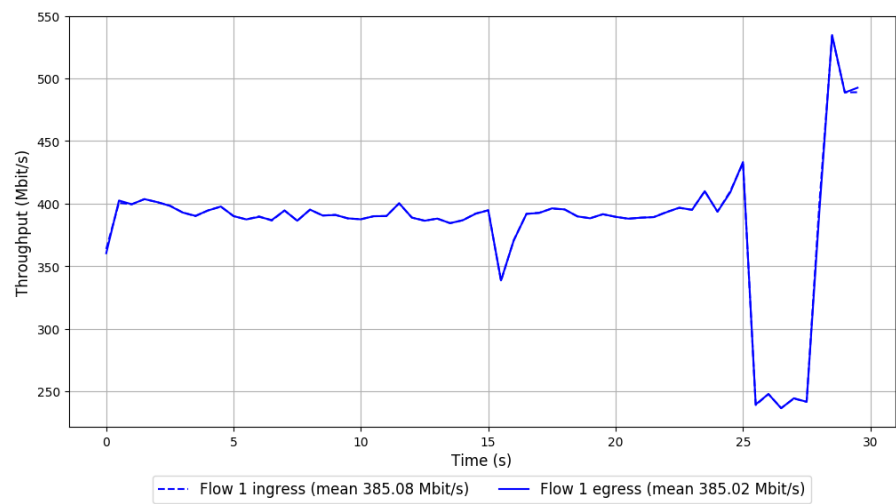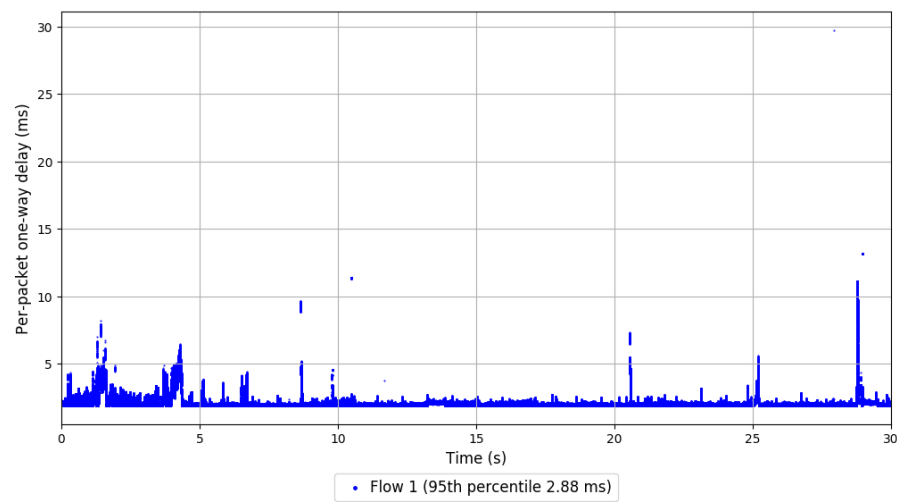
Run 5: Report of CalibratedKoho — Data Link

```
Run 6: Statistics of CalibratedKoho

Start at: 2017-09-03 05:42:36
End at: 2017-09-03 05:43:06
Local clock offset: -3.025 ms
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2017-09-03 09:30:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 385.02 Mbit/s
95th percentile per-packet one-way delay: 6.096 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 385.02 Mbit/s
95th percentile per-packet one-way delay: 6.096 ms
Loss rate: 0.01%
```
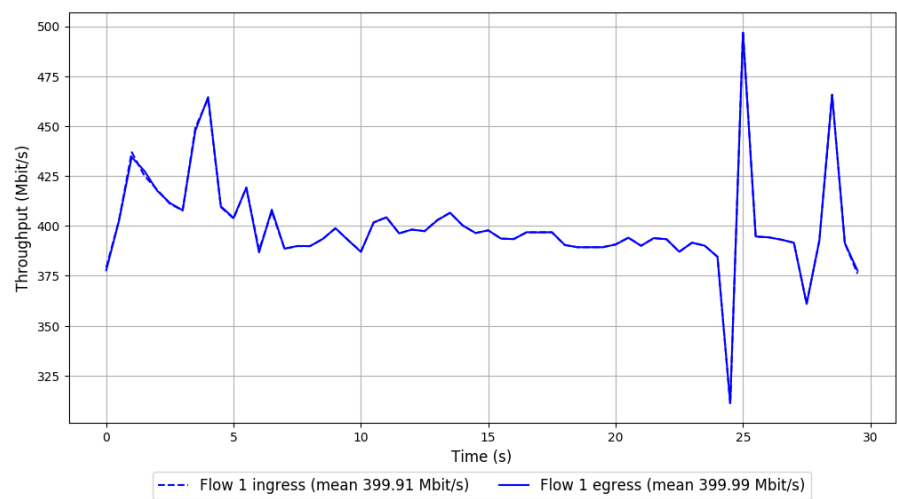
Run 6: Report of CalibratedKoho — Data Link

```
Run 7: Statistics of CalibratedKoho

Start at: 2017-09-03 06:02:00
End at: 2017-09-03 06:02:30
Local clock offset: -2.78 ms
Remote clock offset: -0.042 ms


# Below is generated by plot.py at 2017-09-03 09:30:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 399.99 Mbit/s
95th percentile per-packet one-way delay: 2.883 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 399.99 Mbit/s
95th percentile per-packet one-way delay: 2.883 ms
Loss rate: 0.00%
```
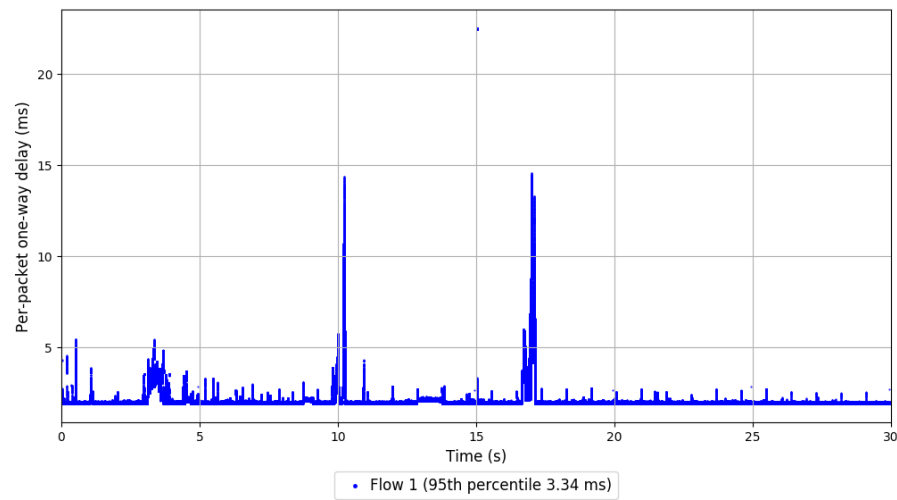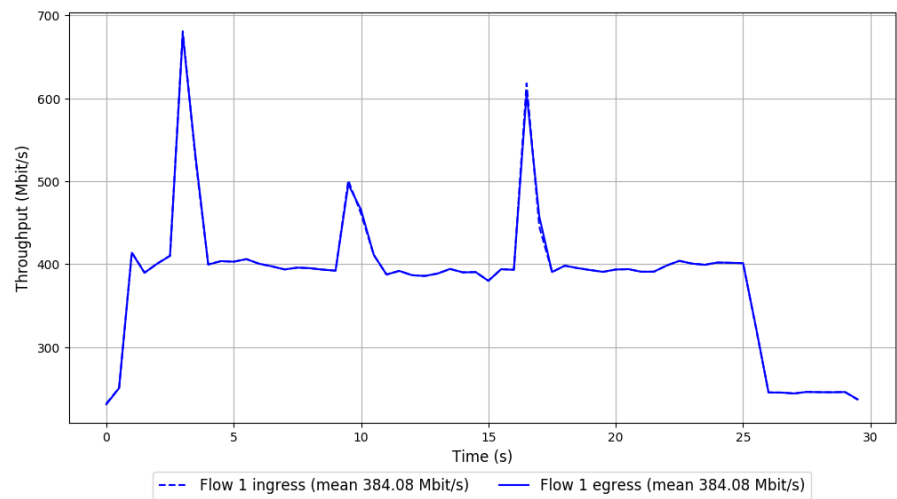
Run 7: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 399.91 Mbit/s)   Flow 1 egress (mean 399.99 Mbit/s)

Flow 1 (95th percentile 2.88 ms)

```
Run 8: Statistics of CalibratedKoho

Start at: 2017-09-03 06:21:15
End at: 2017-09-03 06:21:45
Local clock offset: -2.681 ms
Remote clock offset: 0.033 ms


# Below is generated by plot.py at 2017-09-03 09:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.08 Mbit/s
95th percentile per-packet one-way delay: 3.344 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 384.08 Mbit/s
95th percentile per-packet one-way delay: 3.344 ms
Loss rate: 0.00%
```

Run 8: Report of CalibratedKoho — Data Link

```
Run 9: Statistics of CalibratedKoho

Start at: 2017-09-03 06:40:28
End at: 2017-09-03 06:40:58
Local clock offset: -2.644 ms
Remote clock offset: 0.054 ms


# Below is generated by plot.py at 2017-09-03 09:31:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 393.05 Mbit/s
95th percentile per-packet one-way delay: 4.300 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 393.05 Mbit/s
95th percentile per-packet one-way delay: 4.300 ms
Loss rate: 0.00%
```
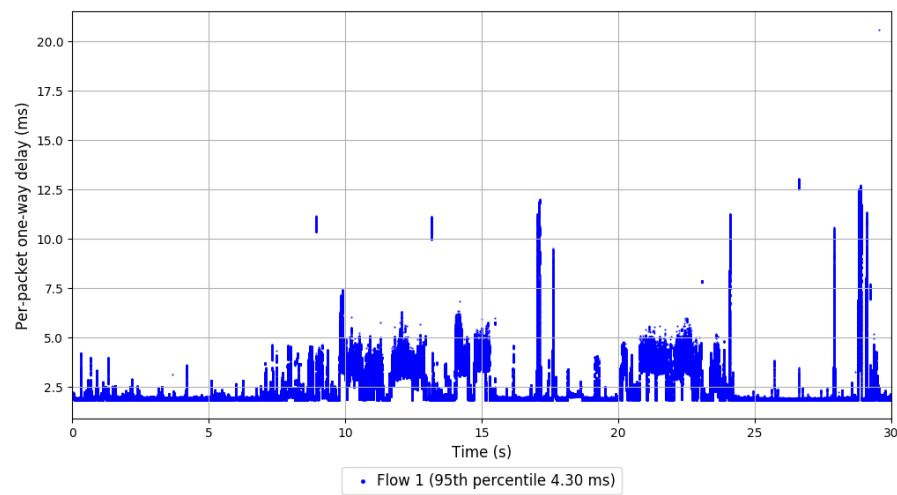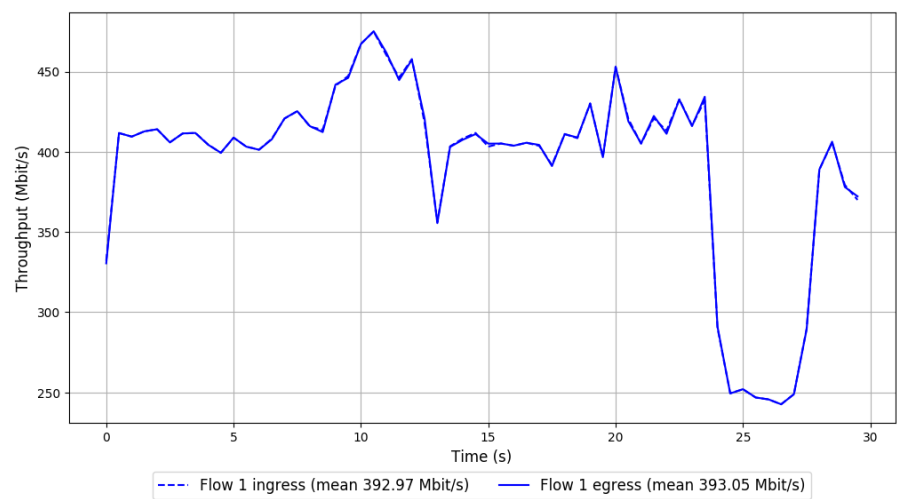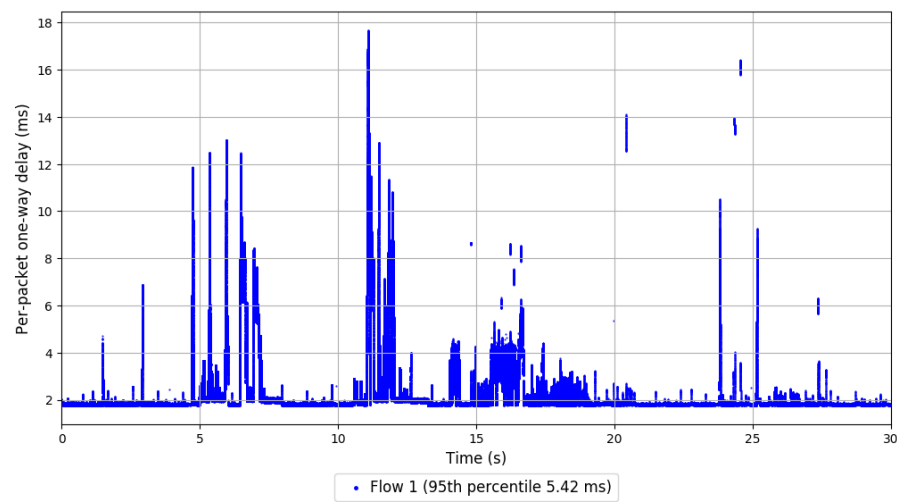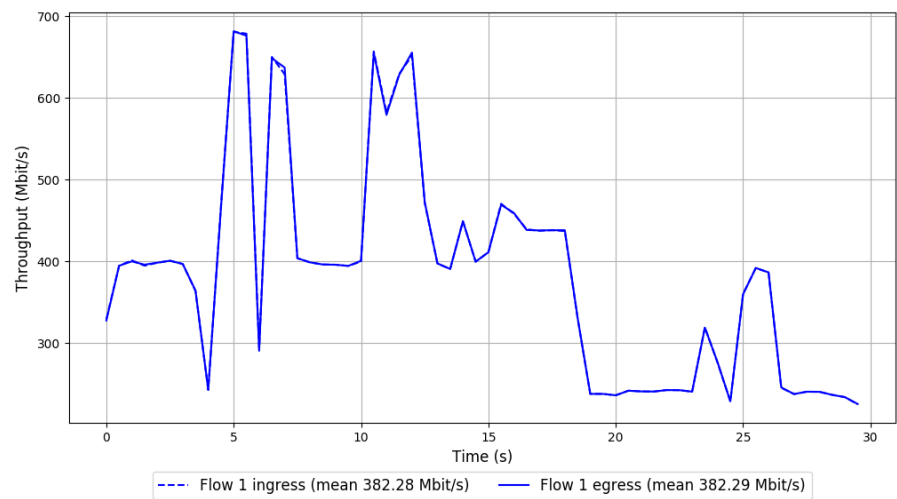
Run 9: Report of CalibratedKoho — Data Link

```
Run 10: Statistics of CalibratedKoho

Start at: 2017-09-03 06:59:45
End at: 2017-09-03 07:00:15
Local clock offset: -2.686 ms
Remote clock offset: -0.072 ms


# Below is generated by plot.py at 2017-09-03 09:32:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 382.29 Mbit/s
95th percentile per-packet one-way delay: 5.419 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 382.29 Mbit/s
95th percentile per-packet one-way delay: 5.419 ms
Loss rate: 0.00%
```

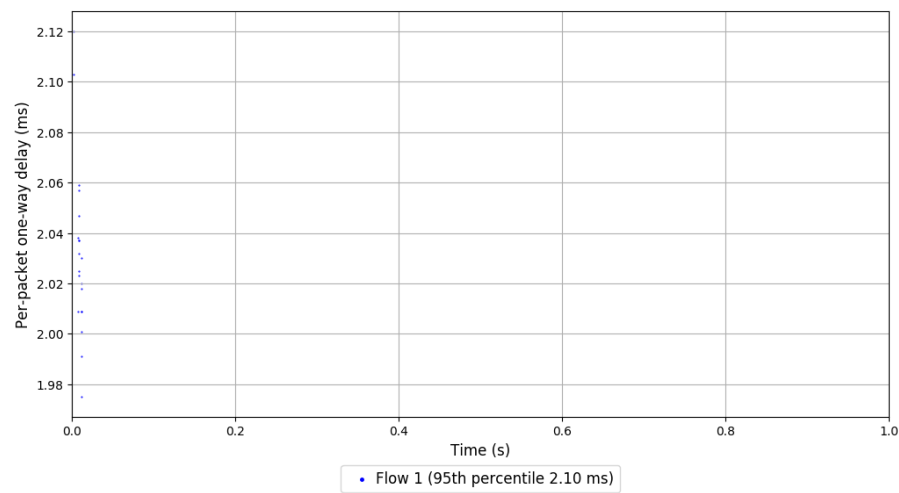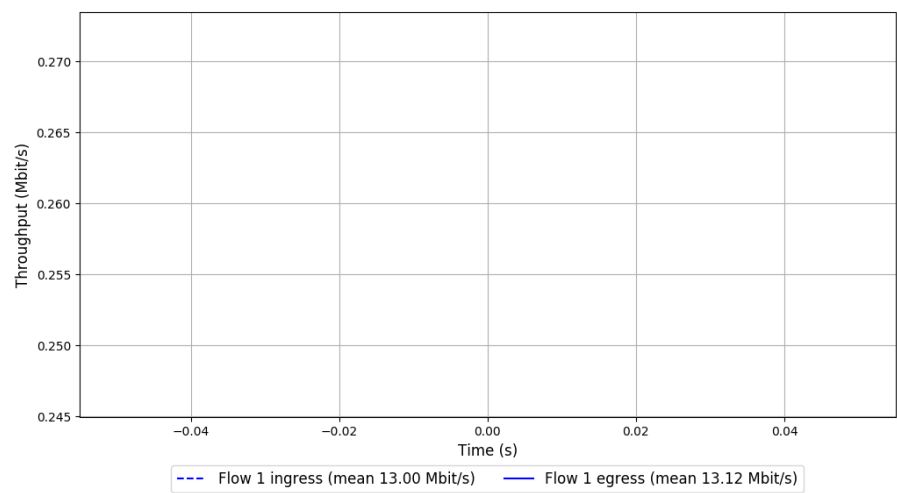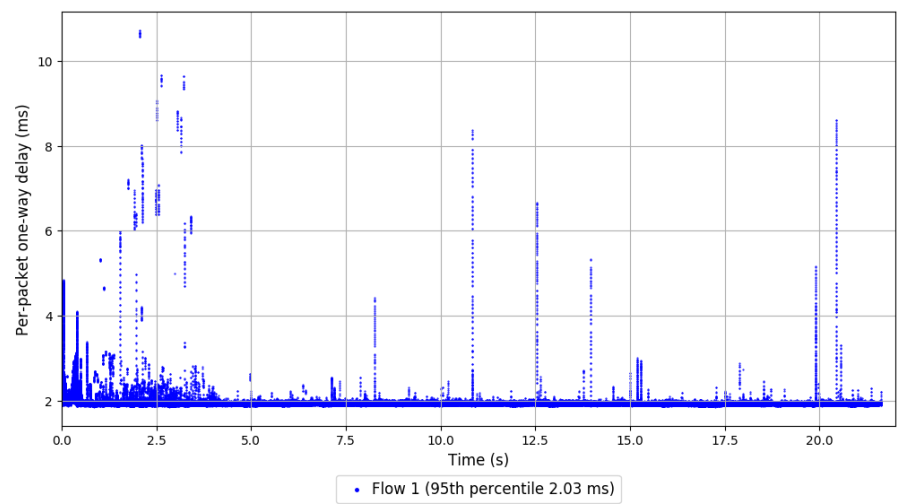Run 10: Report of CalibratedKoho — Data Link
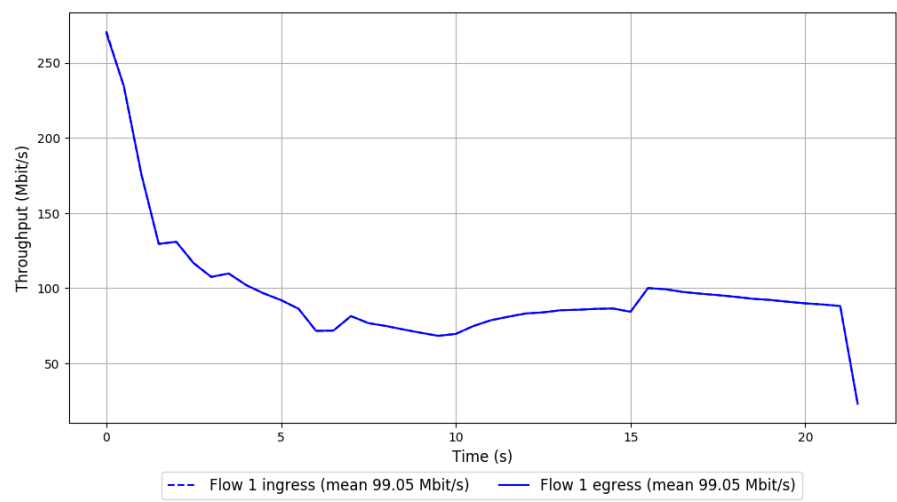
```
Run 1: Statistics of Copa

Start at: 2017-09-03 04:03:51
End at: 2017-09-03 04:04:21
Local clock offset: -3.664 ms
Remote clock offset: 0.281 ms
```

Run 1: Report of Copa — Data Link

Throughput (Mbit/s)

0.270

0.265

0.260

0.255

0.250

0.245

−0.04   −0.02   0.00   0.02   0.04

Time (s)

- - - Flow 1 ingress (mean 13.00 Mbit/s) ——— Flow 1 egress (mean 13.12 Mbit/s)

2.12

2.10

2.08

2.06

2.04

2.02

2.00

1.98

Per-packet one-way delay (ms)

0.0   0.2   0.4   0.6   0.8   1.0

Time (s)

• Flow 1 (95th percentile 2.10 ms)

```
Run 2: Statistics of Copa

Start at: 2017-09-03 04:22:51
End at: 2017-09-03 04:23:21
Local clock offset: -3.609 ms
Remote clock offset: 0.119 ms
```
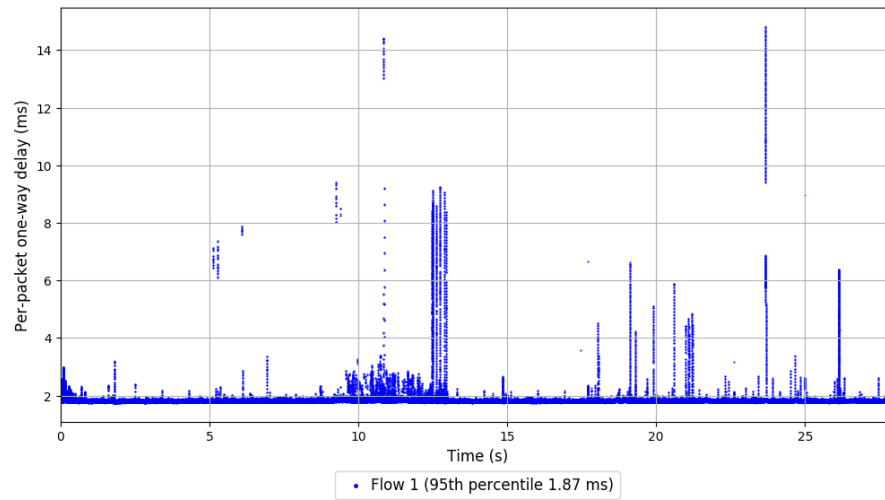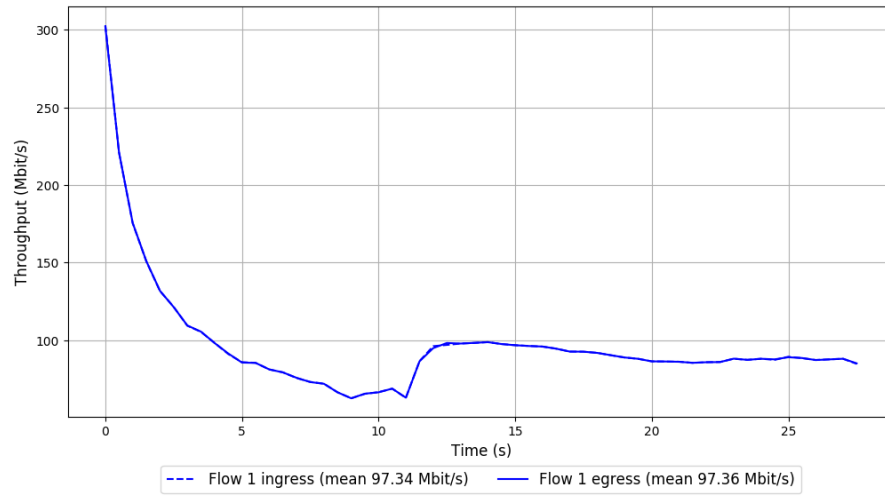
Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2017-09-03 04:41:49
End at: 2017-09-03 04:42:19
Local clock offset: -3.382 ms
Remote clock offset: -0.053 ms


# Below is generated by plot.py at 2017-09-03 09:32:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.36 Mbit/s
95th percentile per-packet one-way delay: 1.867 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.36 Mbit/s
95th percentile per-packet one-way delay: 1.867 ms
Loss rate: 0.00%
```

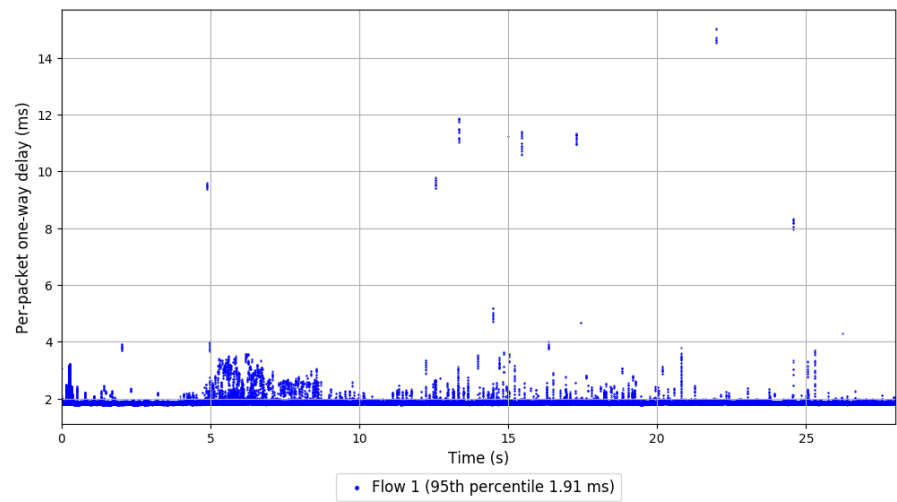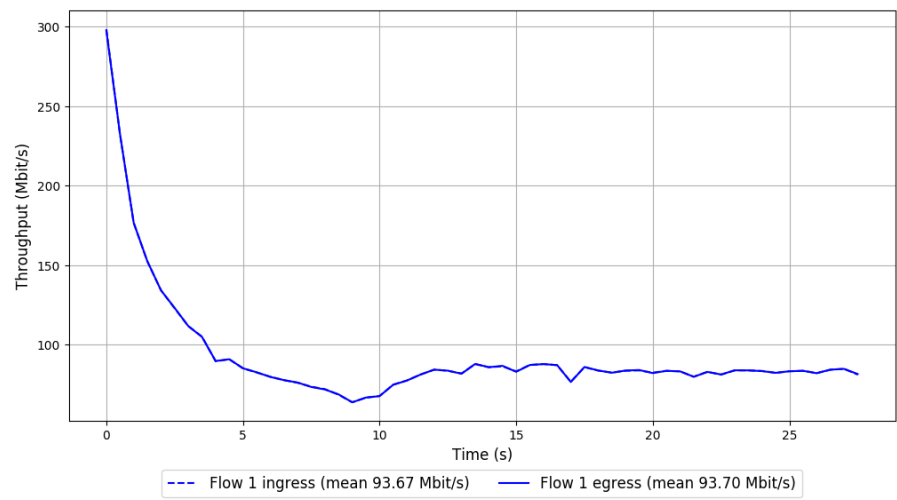Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: 2017-09-03 05:00:53
End at: 2017-09-03 05:01:23
Local clock offset: -3.231 ms
Remote clock offset: -0.101 ms


# Below is generated by plot.py at 2017-09-03 09:32:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 1.906 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 1.906 ms
Loss rate: 0.00%
```

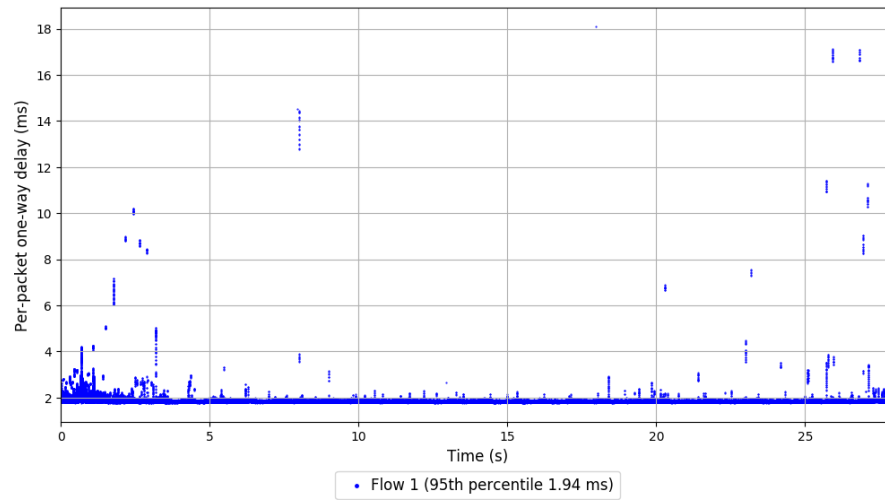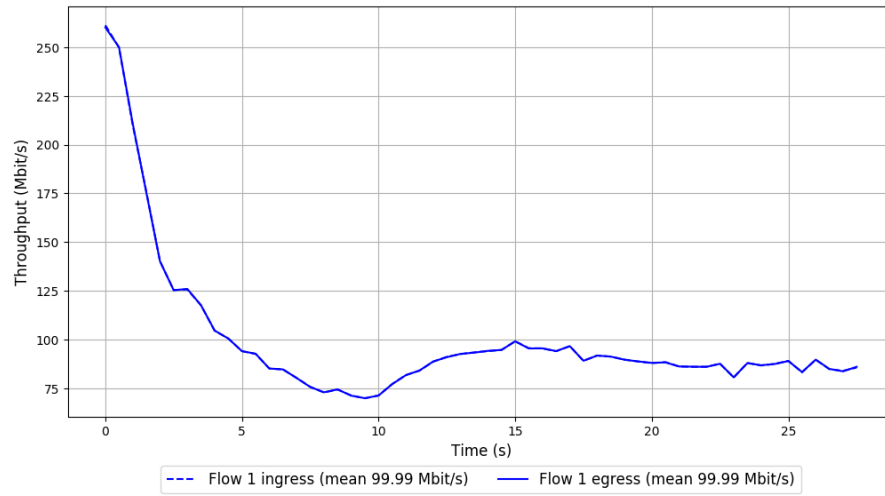Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2017-09-03 05:19:58
End at: 2017-09-03 05:20:28
Local clock offset: -3.091 ms
Remote clock offset: -0.134 ms


# Below is generated by plot.py at 2017-09-03 09:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 99.99 Mbit/s
95th percentile per-packet one-way delay: 1.936 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 99.99 Mbit/s
95th percentile per-packet one-way delay: 1.936 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 99.99 Mbit/s) --- Flow 1 egress (mean 99.99 Mbit/s)

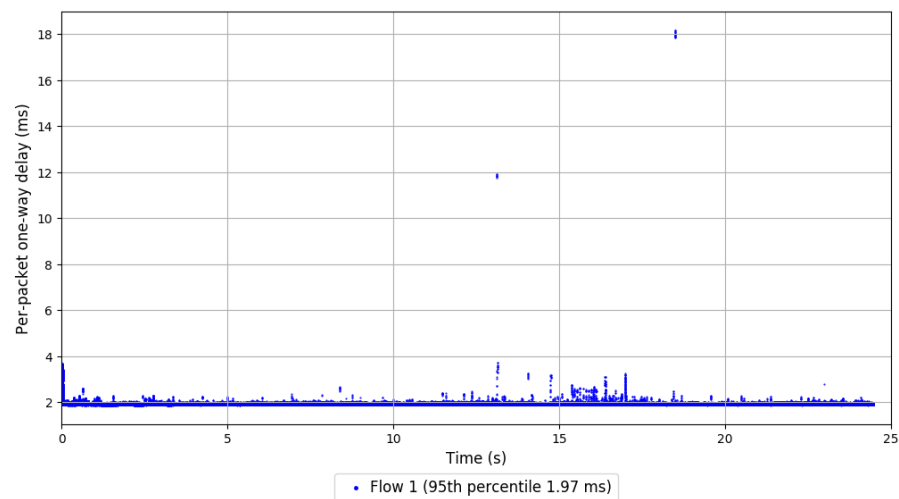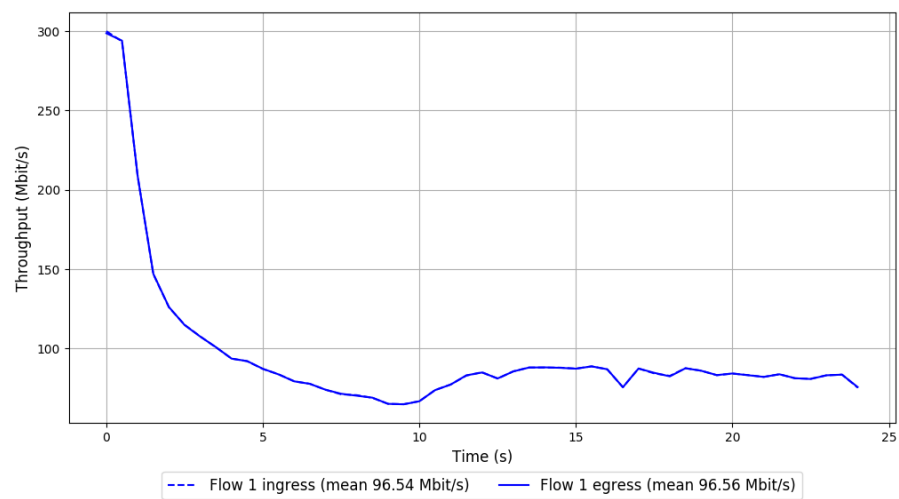Flow 1 (95th percentile 1.94 ms)

```
Run 6: Statistics of Copa

Start at: 2017-09-03 05:39:01
End at: 2017-09-03 05:39:31
Local clock offset: -3.086 ms
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2017-09-03 09:32:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 1.965 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 1.965 ms
Loss rate: 0.00%
```

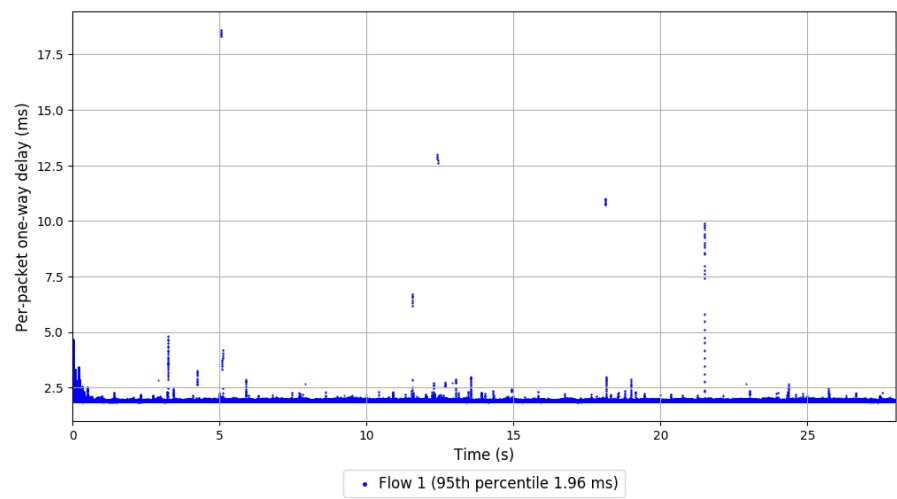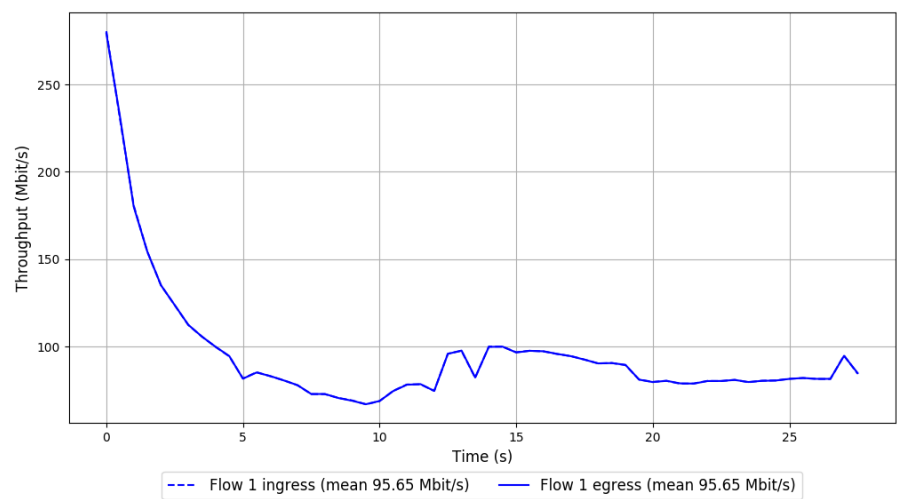Run 6: Report of Copa — Data Link

```
Run 7: Statistics of Copa

Start at: 2017-09-03 05:58:27
End at: 2017-09-03 05:58:57
Local clock offset: -2.808 ms
Remote clock offset: -0.058 ms


# Below is generated by plot.py at 2017-09-03 09:33:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 1.956 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 1.956 ms
Loss rate: 0.00%
```

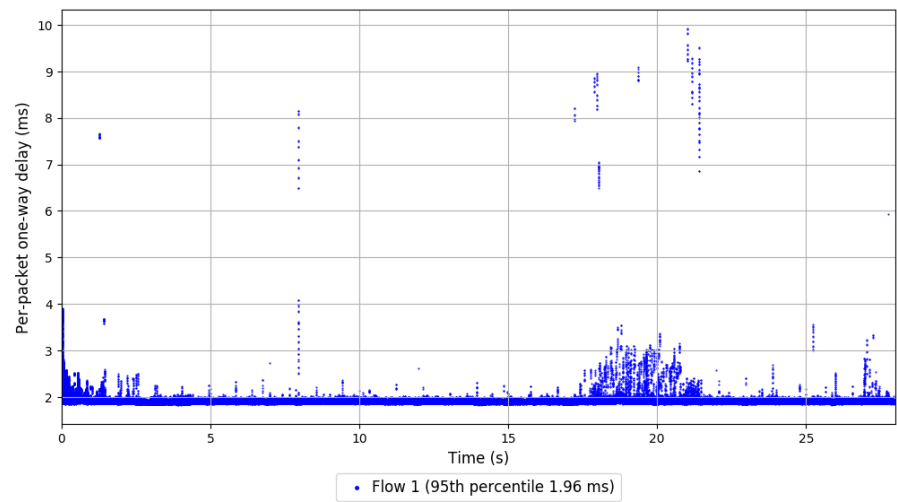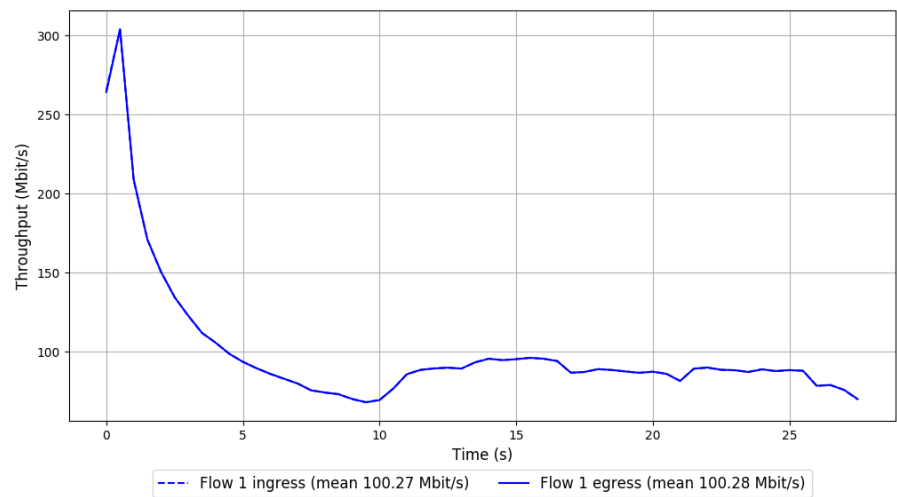Run 7: Report of Copa — Data Link

```
Run 8: Statistics of Copa

Start at: 2017-09-03 06:17:40
End at: 2017-09-03 06:18:10
Local clock offset: -2.682 ms
Remote clock offset: -0.012 ms


# Below is generated by plot.py at 2017-09-03 09:33:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 100.28 Mbit/s
95th percentile per-packet one-way delay: 1.964 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 100.28 Mbit/s
95th percentile per-packet one-way delay: 1.964 ms
Loss rate: 0.00%
```
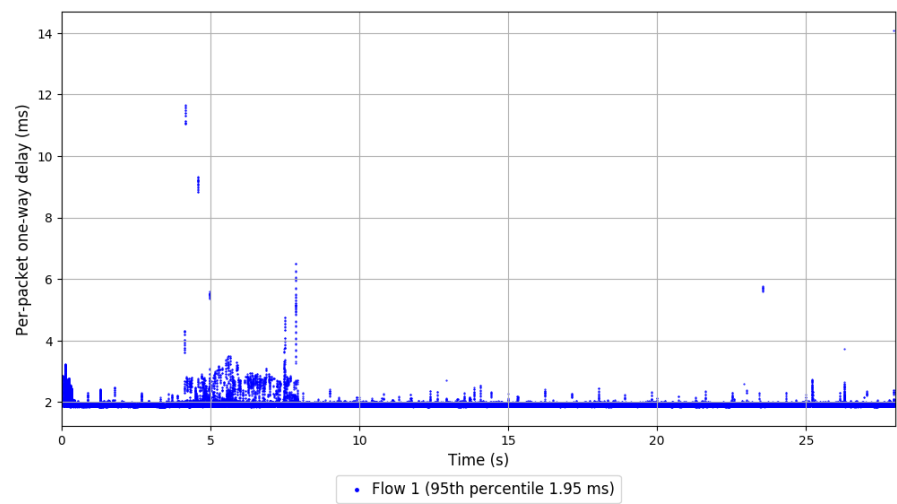
Run 8: Report of Copa — Data Link

Flow 1 ingress (mean 100.27 Mbit/s) —— Flow 1 egress (mean 100.28 Mbit/s)

• Flow 1 (95th percentile 1.96 ms)

```
Run 9: Statistics of Copa

Start at: 2017-09-03 06:36:54
End at: 2017-09-03 06:37:24
Local clock offset: -2.652 ms
Remote clock offset: 0.06 ms


# Below is generated by plot.py at 2017-09-03 09:33:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 99.12 Mbit/s
95th percentile per-packet one-way delay: 1.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 99.12 Mbit/s
95th percentile per-packet one-way delay: 1.952 ms
Loss rate: 0.00%
```
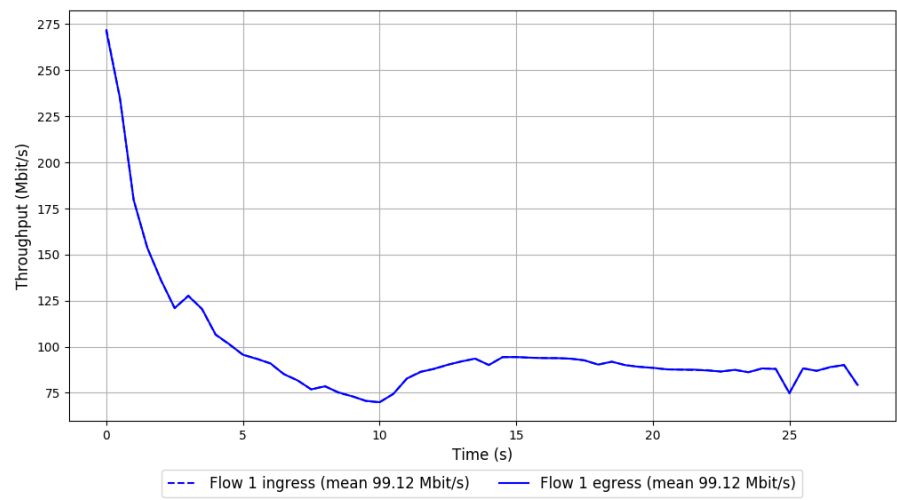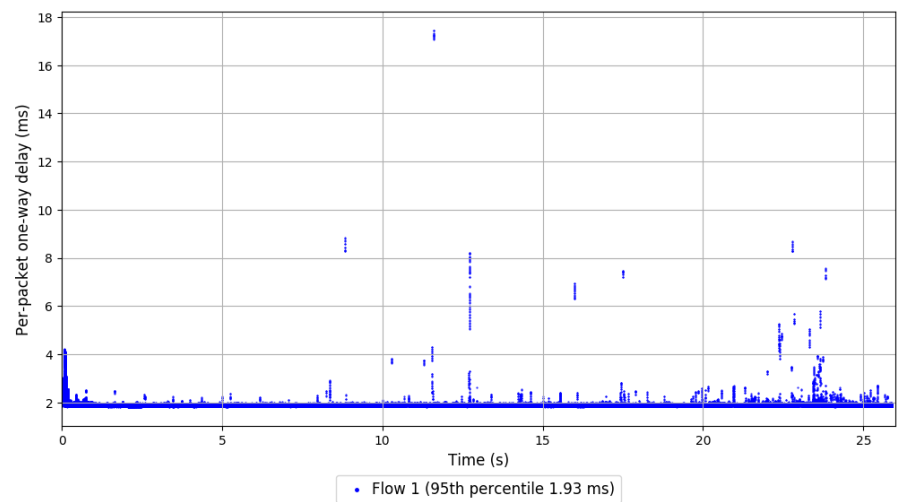
Run 9: Report of Copa — Data Link

Flow 1 ingress (mean 99.12 Mbit/s) ---- Flow 1 egress (mean 99.12 Mbit/s)

Flow 1 (95th percentile 1.95 ms)

```
Run 10: Statistics of Copa

Start at: 2017-09-03 06:56:13
End at: 2017-09-03 06:56:43
Local clock offset: -2.63 ms
Remote clock offset: 0.079 ms


# Below is generated by plot.py at 2017-09-03 09:33:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 101.16 Mbit/s
95th percentile per-packet one-way delay: 1.932 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 101.16 Mbit/s
95th percentile per-packet one-way delay: 1.932 ms
Loss rate: 0.00%
```
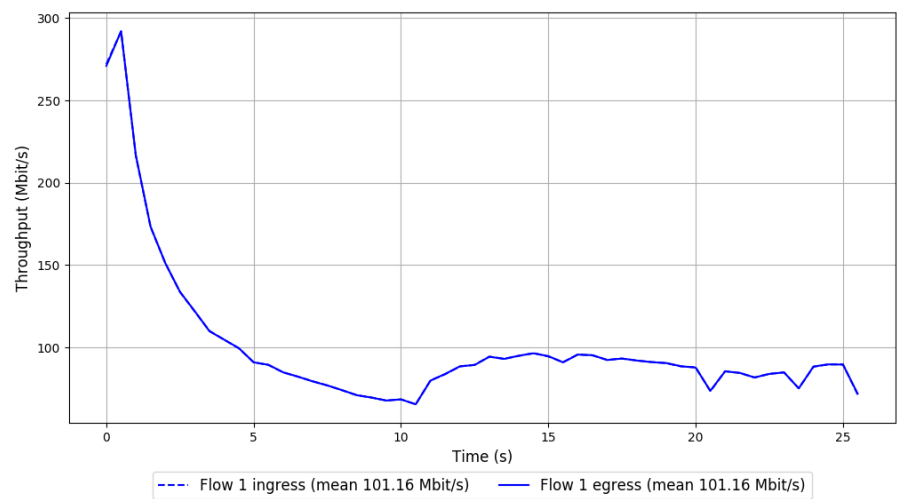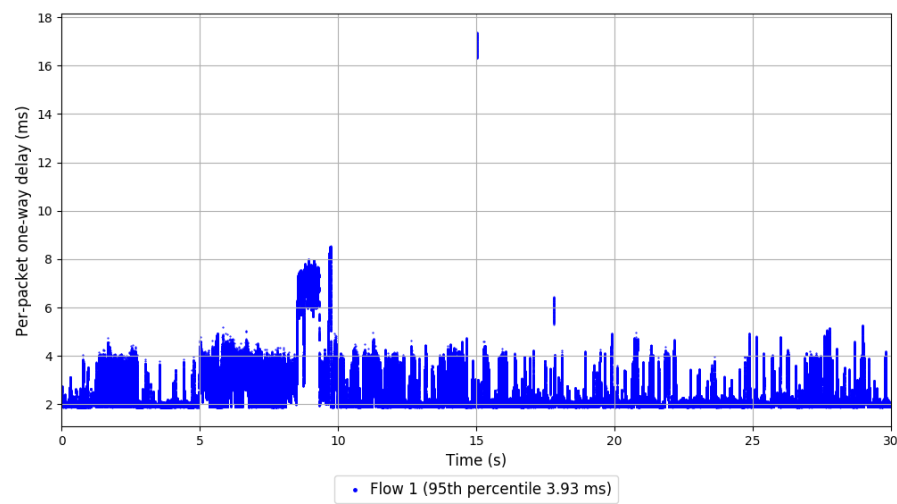
Run 10: Report of Copa — Data Link

Flow 1 ingress (mean 101.16 Mbit/s)   Flow 1 egress (mean 101.16 Mbit/s)

Flow 1 (95th percentile 1.93 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2017-09-03 04:09:55
End at: 2017-09-03 04:10:25
Local clock offset: -3.557 ms
Remote clock offset: 0.262 ms


# Below is generated by plot.py at 2017-09-03 09:34:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 529.38 Mbit/s
95th percentile per-packet one-way delay: 3.933 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 529.38 Mbit/s
95th percentile per-packet one-way delay: 3.933 ms
Loss rate: 0.00%
```
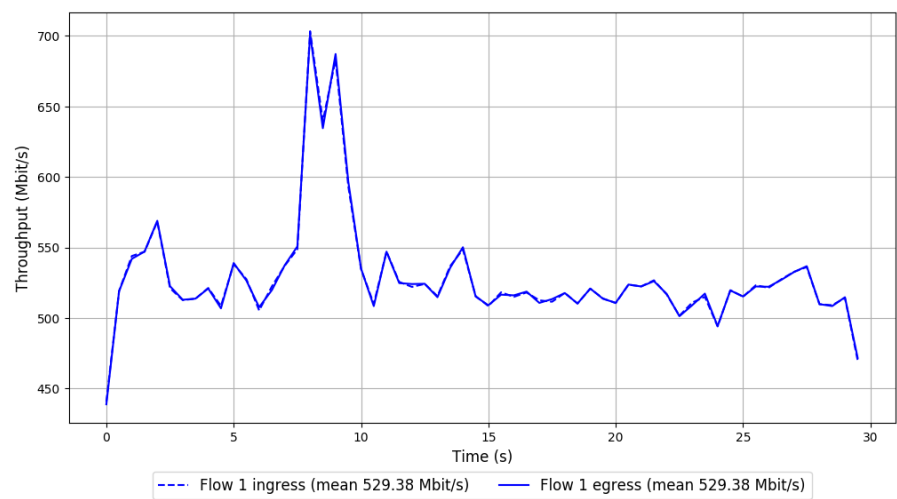
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2017-09-03 04:29:03
End at: 2017-09-03 04:29:33
Local clock offset: -3.471 ms
Remote clock offset: 0.069 ms


# Below is generated by plot.py at 2017-09-03 09:34:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 555.17 Mbit/s
95th percentile per-packet one-way delay: 4.378 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 555.17 Mbit/s
95th percentile per-packet one-way delay: 4.378 ms
Loss rate: 0.00%
```
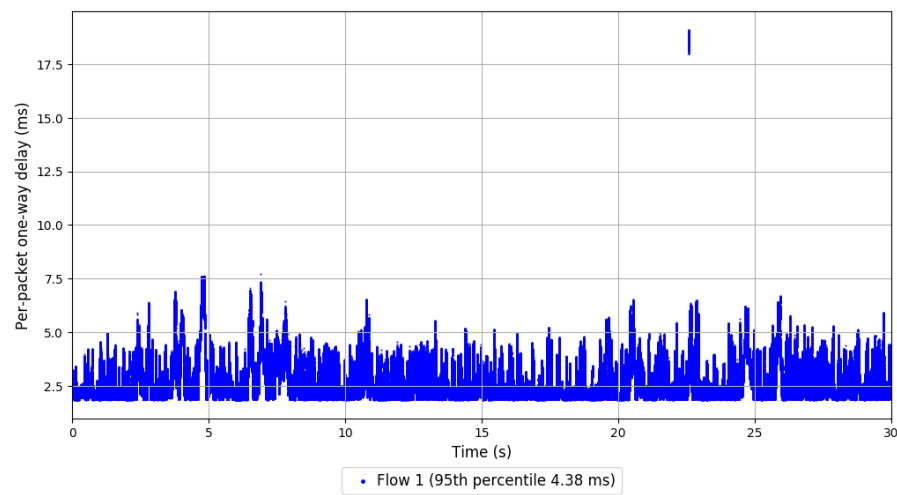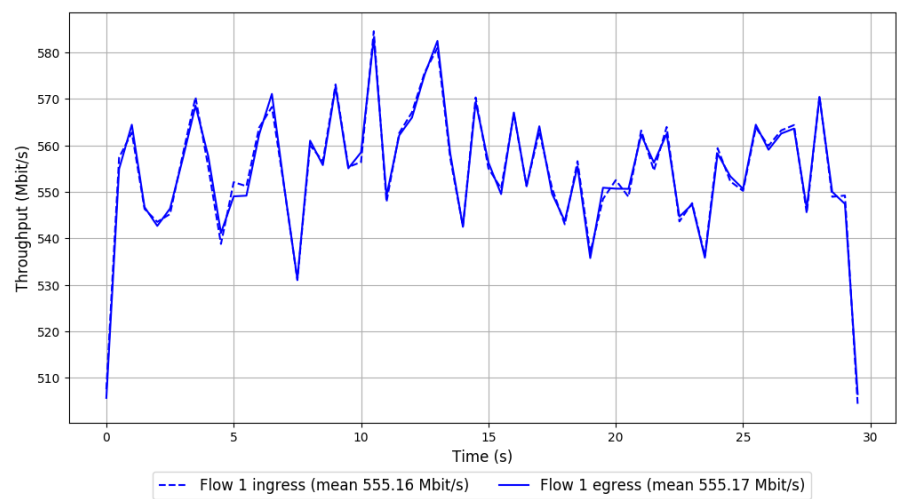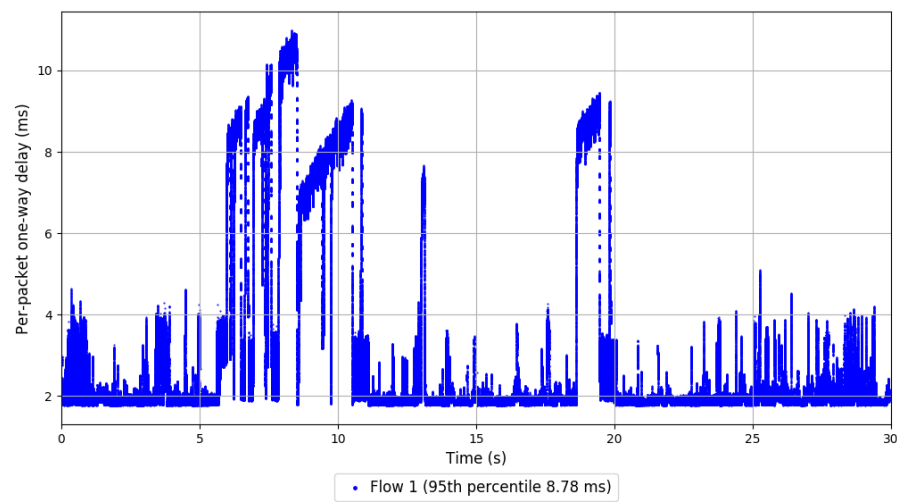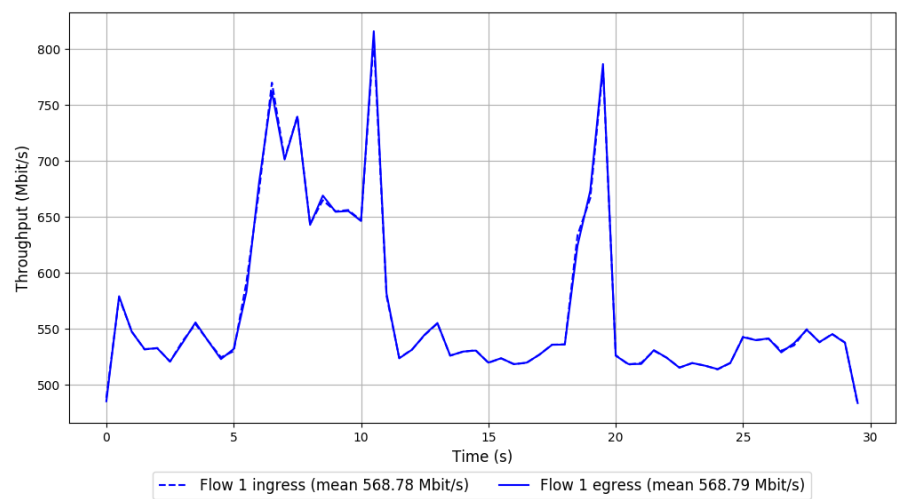
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2017-09-03 04:48:02
End at: 2017-09-03 04:48:32
Local clock offset: -3.322 ms
Remote clock offset: -0.085 ms


# Below is generated by plot.py at 2017-09-03 09:36:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 568.79 Mbit/s
95th percentile per-packet one-way delay: 8.775 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 568.79 Mbit/s
95th percentile per-packet one-way delay: 8.775 ms
Loss rate: 0.00%
```
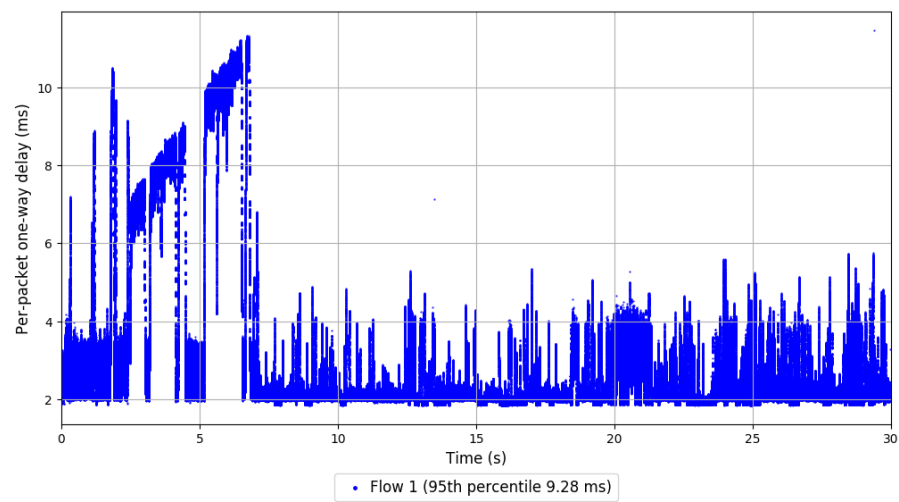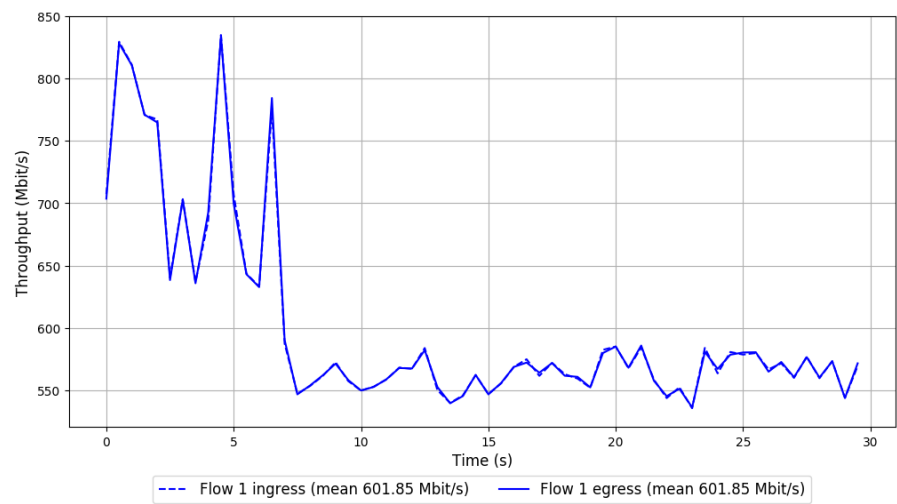
Run 3: Report of TCP Cubic — Data Link

```
Run 4: Statistics of TCP Cubic

Start at: 2017-09-03 05:07:08
End at: 2017-09-03 05:07:38
Local clock offset: -3.175 ms
Remote clock offset: -0.053 ms


# Below is generated by plot.py at 2017-09-03 09:36:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 601.85 Mbit/s
95th percentile per-packet one-way delay: 9.283 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 601.85 Mbit/s
95th percentile per-packet one-way delay: 9.283 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2017-09-03 05:26:14
End at: 2017-09-03 05:26:44
Local clock offset: -3.11 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2017-09-03 09:37:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 698.96 Mbit/s
95th percentile per-packet one-way delay: 10.446 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 698.96 Mbit/s
95th percentile per-packet one-way delay: 10.446 ms
Loss rate: 0.04%
```
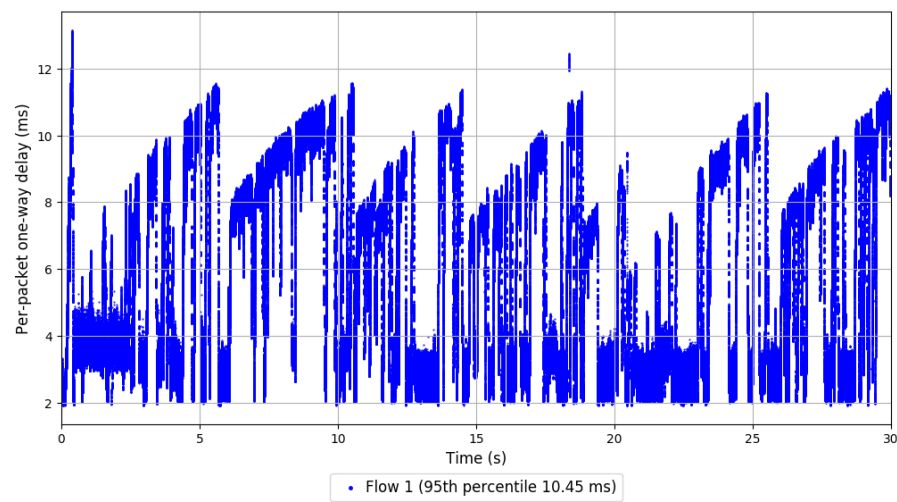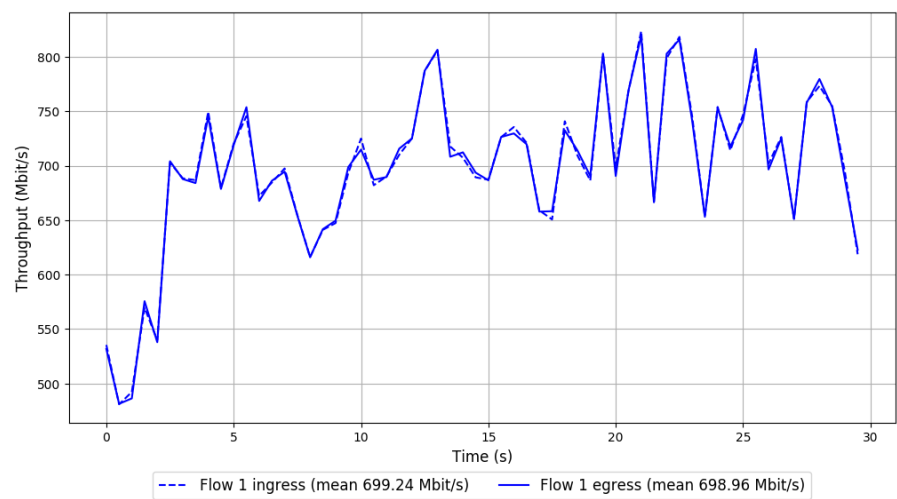
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 699.24 Mbit/s)   —— Flow 1 egress (mean 698.96 Mbit/s)
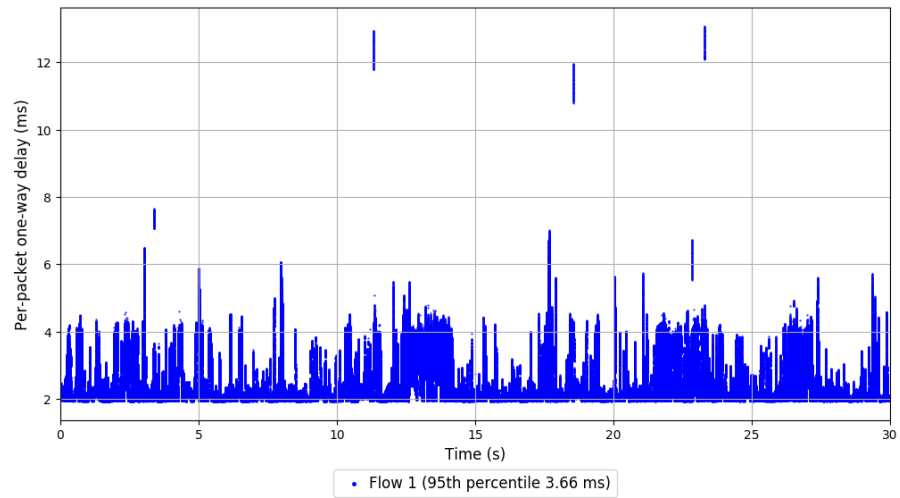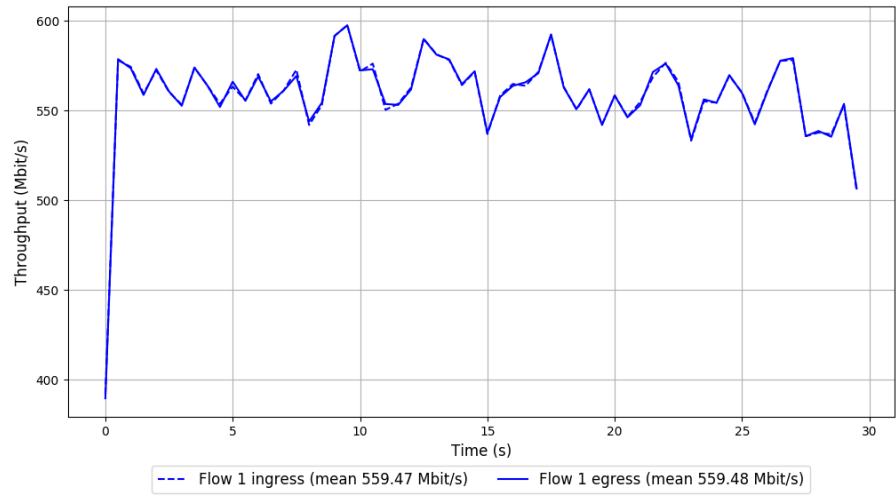

• Flow 1 (95th percentile 10.45 ms)

```
Run 6: Statistics of TCP Cubic

Start at: 2017-09-03 05:45:18
End at: 2017-09-03 05:45:48
Local clock offset: -3.087 ms
Remote clock offset: -0.149 ms


# Below is generated by plot.py at 2017-09-03 09:37:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 559.48 Mbit/s
95th percentile per-packet one-way delay: 3.659 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 559.48 Mbit/s
95th percentile per-packet one-way delay: 3.659 ms
Loss rate: 0.00%
```

Run 6: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 559.47 Mbit/s) ---- Flow 1 egress (mean 559.48 Mbit/s) ——
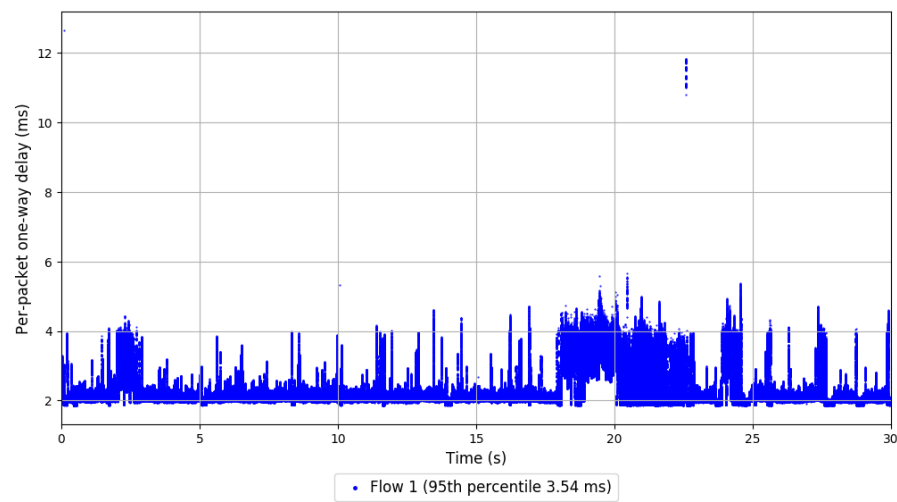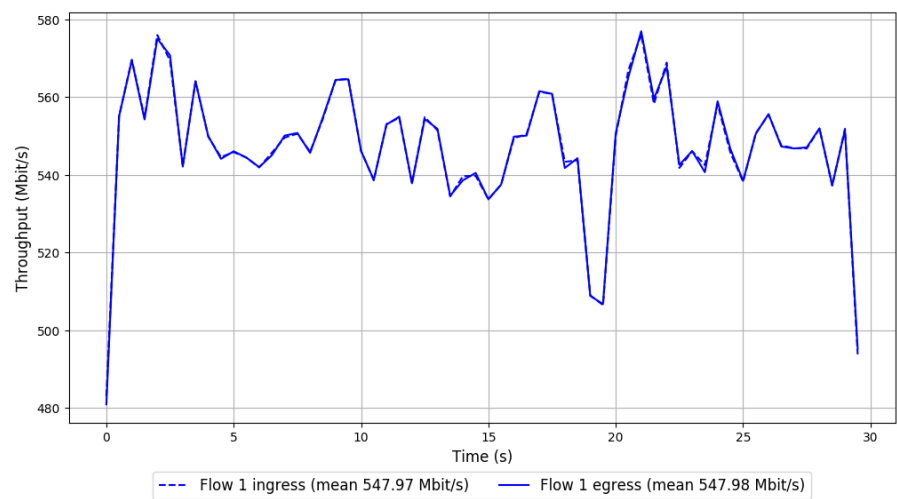

Flow 1 (95th percentile 3.66 ms)

```
Run 7: Statistics of TCP Cubic

Start at: 2017-09-03 06:04:42
End at: 2017-09-03 06:05:12
Local clock offset: -2.758 ms
Remote clock offset: -0.062 ms


# Below is generated by plot.py at 2017-09-03 09:38:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 547.98 Mbit/s
95th percentile per-packet one-way delay: 3.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 547.98 Mbit/s
95th percentile per-packet one-way delay: 3.537 ms
Loss rate: 0.00%
```

Run 7: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 547.97 Mbit/s)   Flow 1 egress (mean 547.98 Mbit/s)

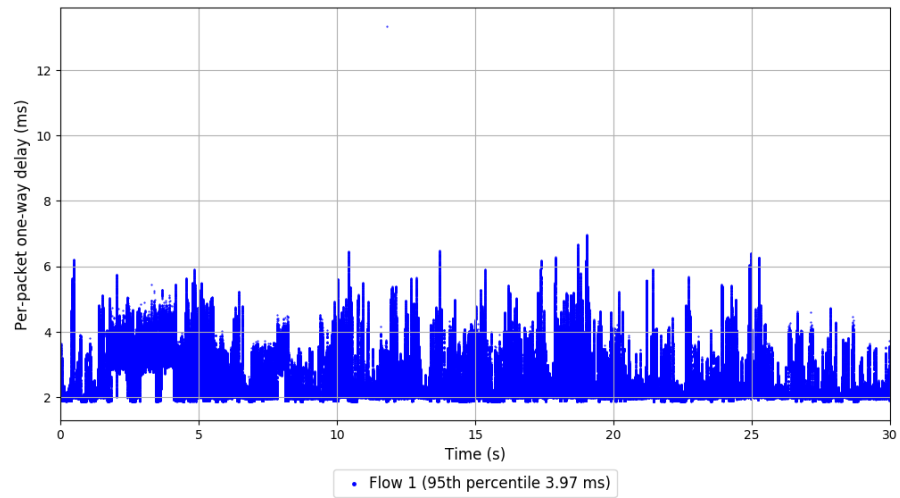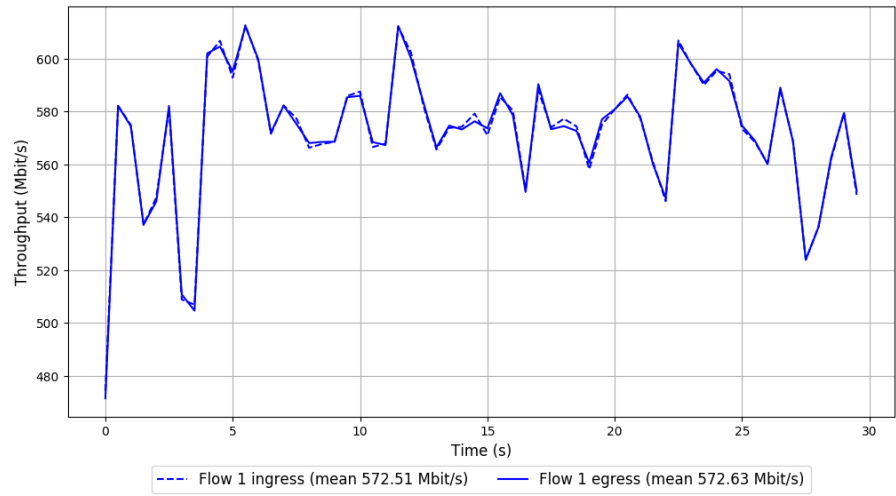

Flow 1 (95th percentile 3.54 ms)

```
Run 8: Statistics of TCP Cubic

Start at: 2017-09-03 06:23:58
End at: 2017-09-03 06:24:28
Local clock offset: -2.709 ms
Remote clock offset: -0.039 ms


# Below is generated by plot.py at 2017-09-03 09:38:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 572.63 Mbit/s
95th percentile per-packet one-way delay: 3.972 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 572.63 Mbit/s
95th percentile per-packet one-way delay: 3.972 ms
Loss rate: 0.00%
```
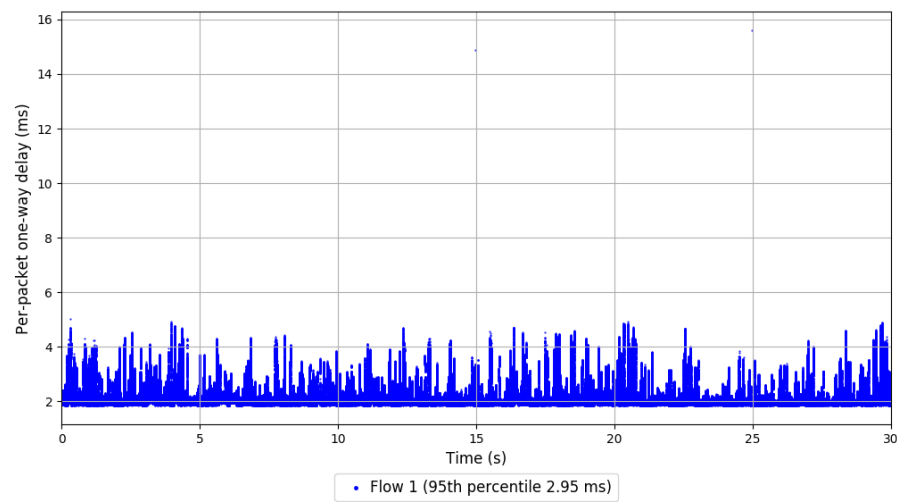
Run 8: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 572.51 Mbit/s) —— Flow 1 egress (mean 572.63 Mbit/s)

• Flow 1 (95th percentile 3.97 ms)

```
Run 9: Statistics of TCP Cubic

Start at: 2017-09-03 06:43:12
End at: 2017-09-03 06:43:42
Local clock offset: -2.669 ms
Remote clock offset: 0.07 ms


# Below is generated by plot.py at 2017-09-03 09:39:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 522.53 Mbit/s
95th percentile per-packet one-way delay: 2.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 522.53 Mbit/s
95th percentile per-packet one-way delay: 2.950 ms
Loss rate: 0.00%
```
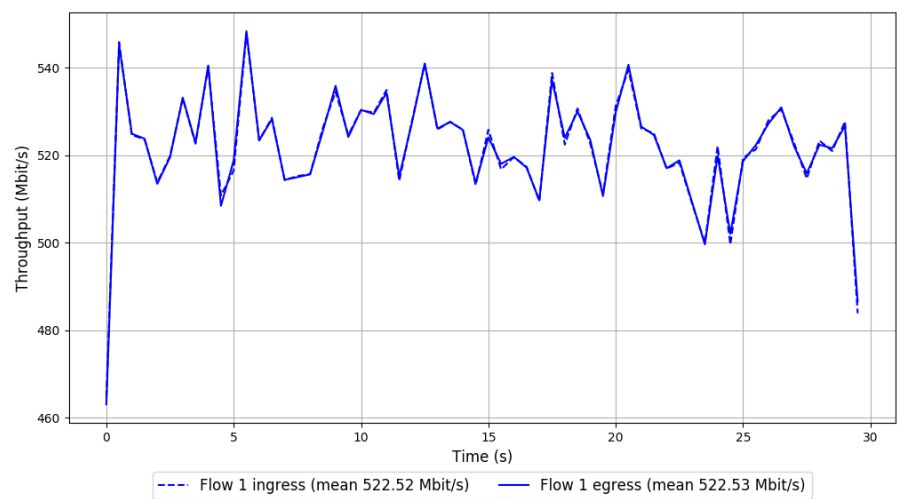
Run 9: Report of TCP Cubic — Data Link

```
Run 10: Statistics of TCP Cubic

Start at: 2017-09-03 07:02:29
End at: 2017-09-03 07:02:59
Local clock offset: -2.735 ms
Remote clock offset: 0.001 ms


# Below is generated by plot.py at 2017-09-03 09:40:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 526.84 Mbit/s
95th percentile per-packet one-way delay: 4.556 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 526.84 Mbit/s
95th percentile per-packet one-way delay: 4.556 ms
Loss rate: 0.00%
```
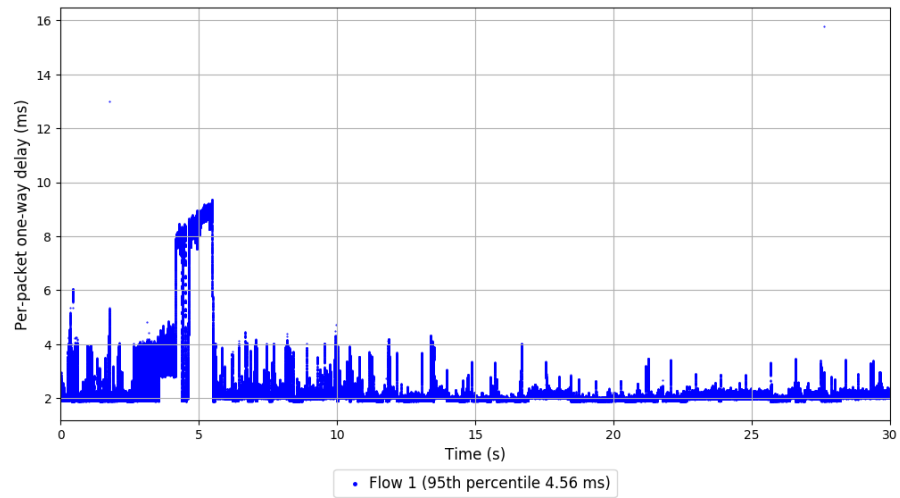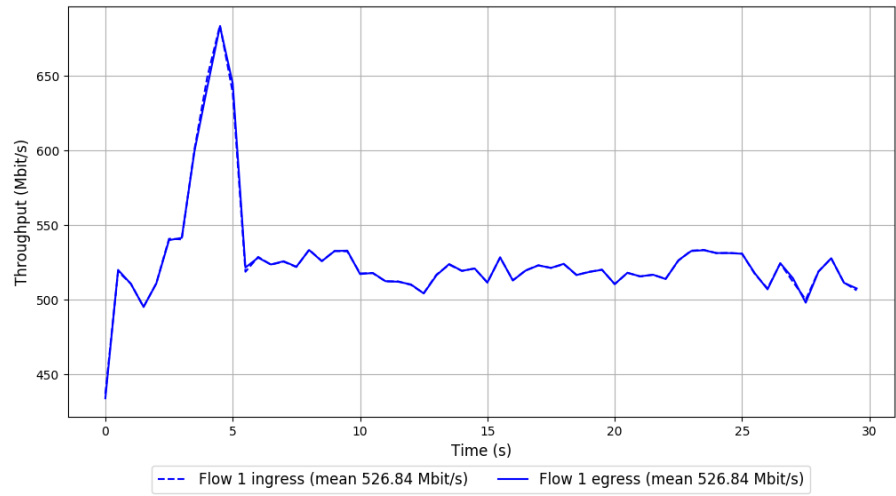
Run 10: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 526.84 Mbit/s)   Flow 1 egress (mean 526.84 Mbit/s)

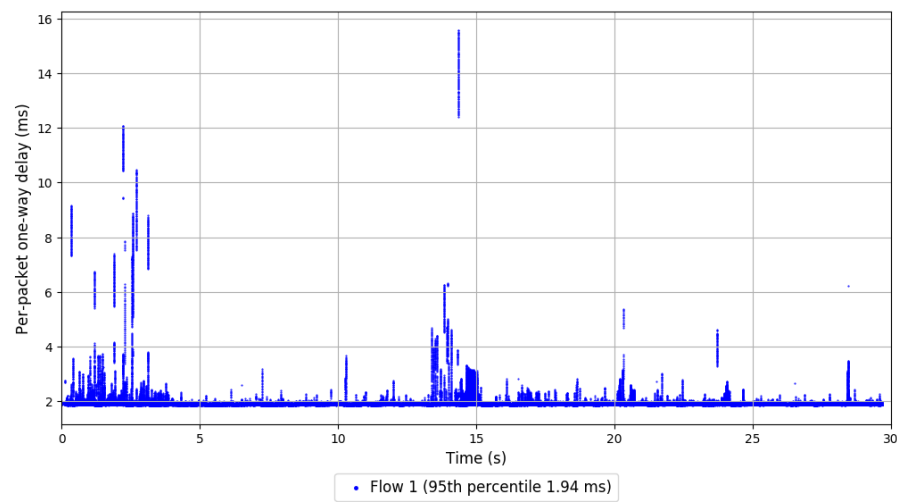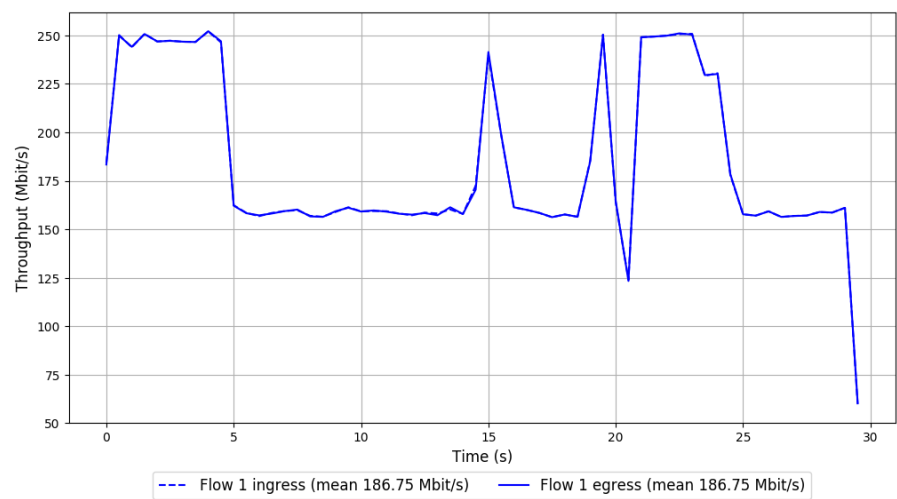

Flow 1 (95th percentile 4.56 ms)

```
Run 1: Statistics of Indigo

Start at: 2017-09-03 04:06:00
End at: 2017-09-03 04:06:30
Local clock offset: -3.601 ms
Remote clock offset: 0.281 ms


# Below is generated by plot.py at 2017-09-03 09:40:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.75 Mbit/s
95th percentile per-packet one-way delay: 1.943 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.75 Mbit/s
95th percentile per-packet one-way delay: 1.943 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2017-09-03 04:25:07
End at: 2017-09-03 04:25:37
Local clock offset: -3.565 ms
Remote clock offset: 0.111 ms


# Below is generated by plot.py at 2017-09-03 09:40:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.67 Mbit/s
95th percentile per-packet one-way delay: 1.965 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.67 Mbit/s
95th percentile per-packet one-way delay: 1.965 ms
Loss rate: 0.00%
```
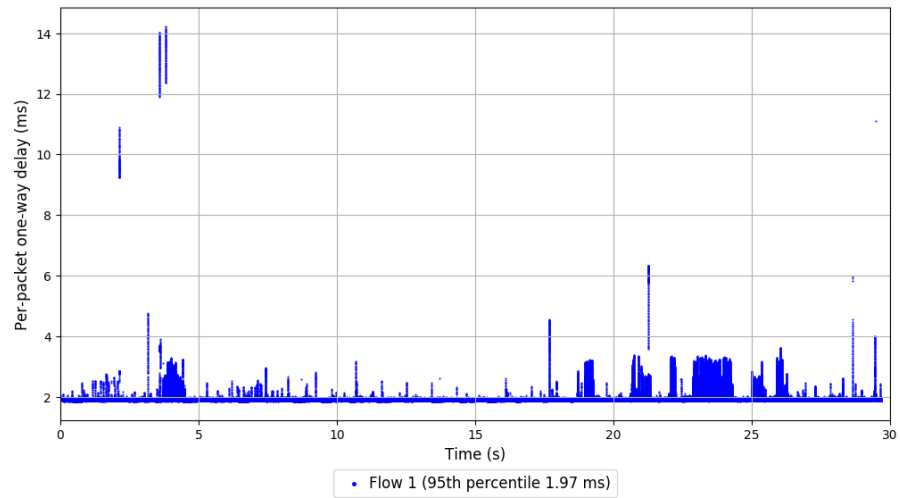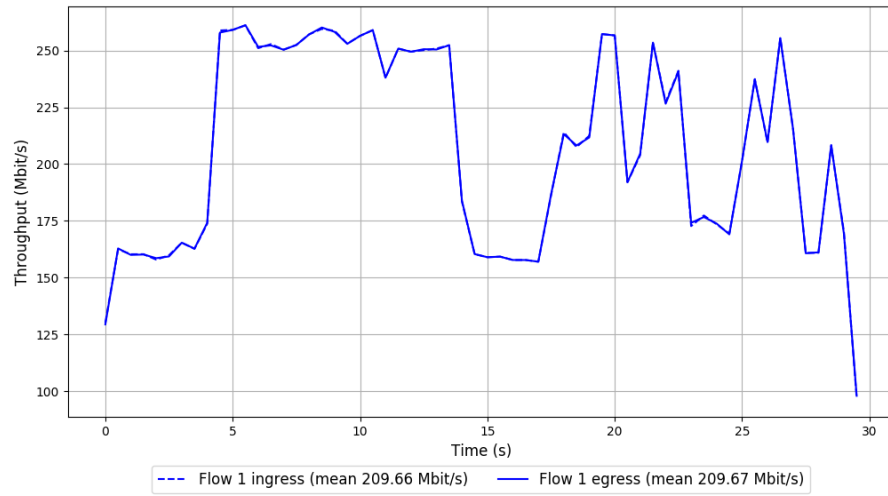
Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2017-09-03 04:44:06
End at: 2017-09-03 04:44:36
Local clock offset: -3.478 ms
Remote clock offset: 0.001 ms


# Below is generated by plot.py at 2017-09-03 09:40:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.54 Mbit/s
95th percentile per-packet one-way delay: 2.025 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.54 Mbit/s
95th percentile per-packet one-way delay: 2.025 ms
Loss rate: 0.00%
```
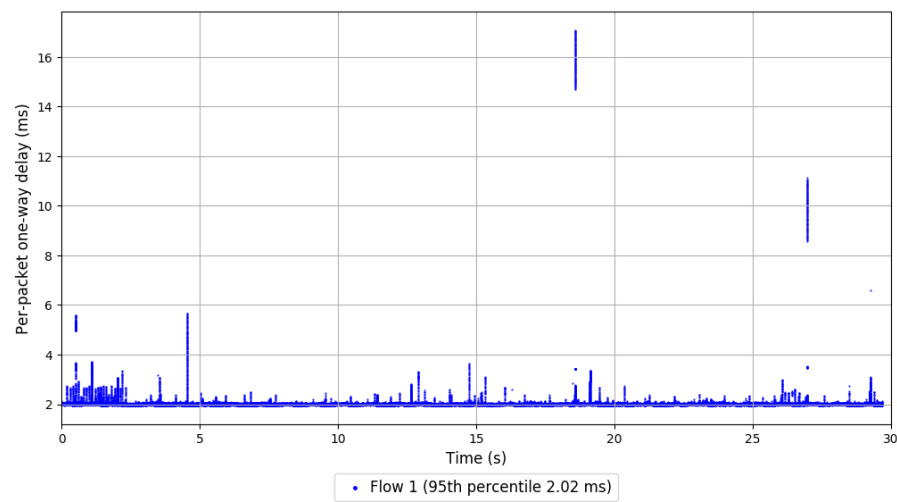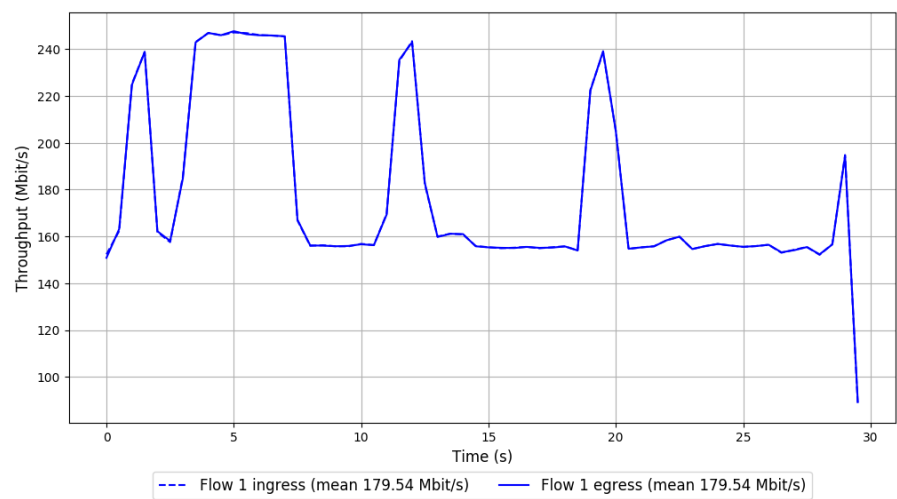
Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2017-09-03 05:03:10
End at: 2017-09-03 05:03:40
Local clock offset: -3.171 ms
Remote clock offset: 0.035 ms


# Below is generated by plot.py at 2017-09-03 09:41:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.63 Mbit/s
95th percentile per-packet one-way delay: 1.973 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.63 Mbit/s
95th percentile per-packet one-way delay: 1.973 ms
Loss rate: 0.00%
```
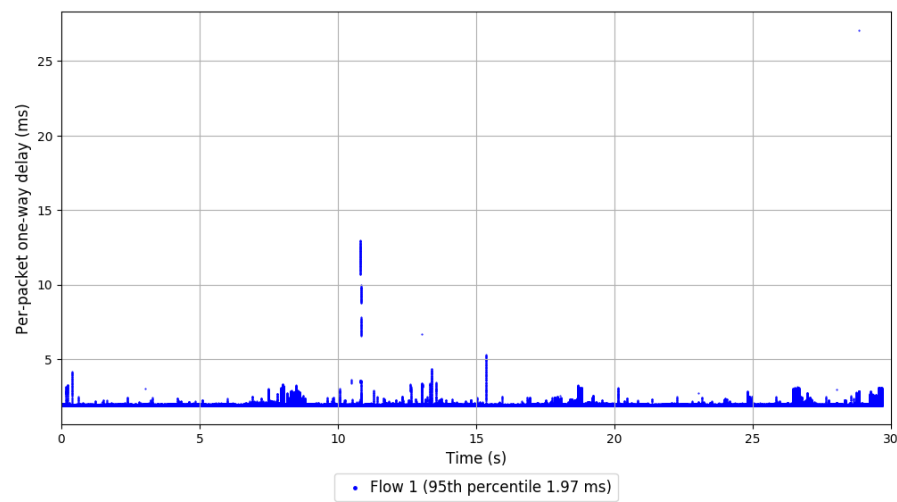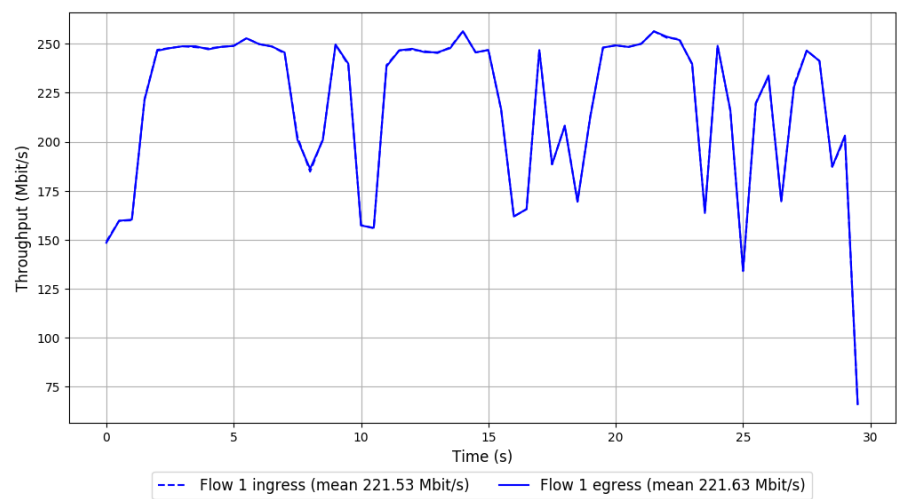
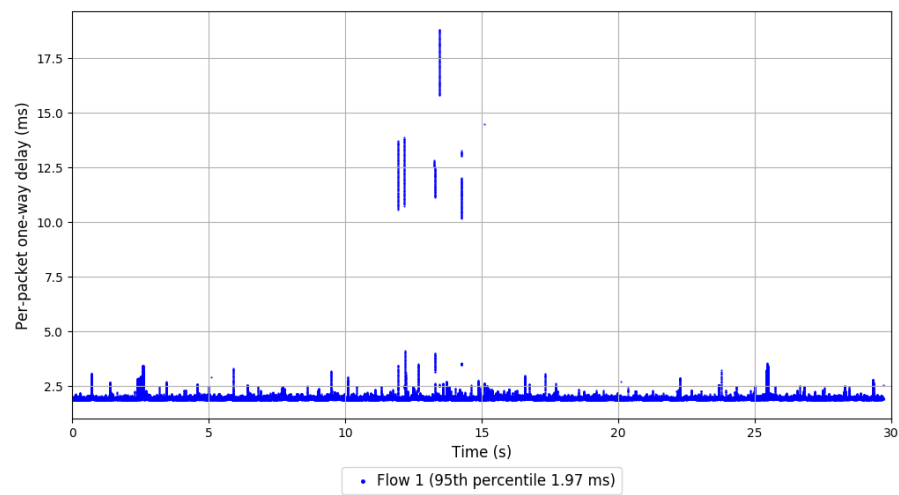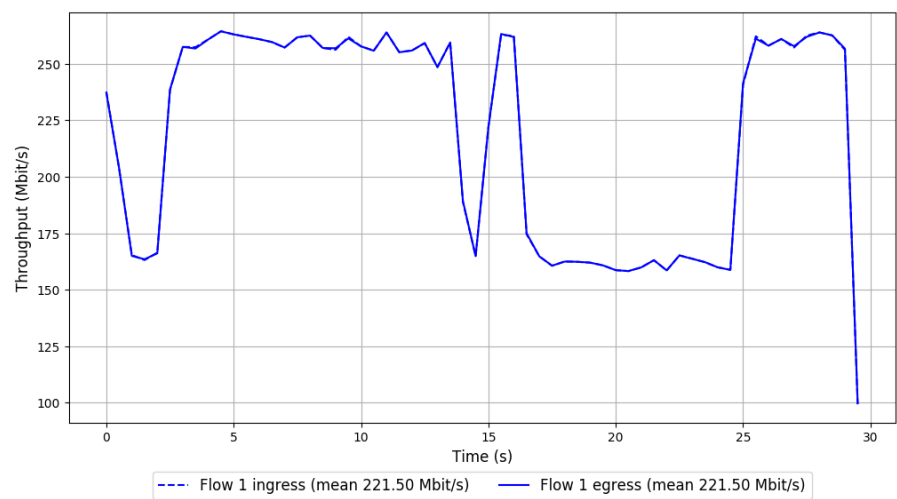Run 4: Report of Indigo — Data Link

```
Run 5: Statistics of Indigo

Start at: 2017-09-03 05:22:16
End at: 2017-09-03 05:22:46
Local clock offset: -3.055 ms
Remote clock offset: -0.054 ms


# Below is generated by plot.py at 2017-09-03 09:41:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.50 Mbit/s
95th percentile per-packet one-way delay: 1.965 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.50 Mbit/s
95th percentile per-packet one-way delay: 1.965 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

Flow 1 ingress (mean 221.50 Mbit/s)   Flow 1 egress (mean 221.50 Mbit/s)

Flow 1 (95th percentile 1.97 ms)

```
Run 6: Statistics of Indigo

Start at: 2017-09-03 05:41:17
End at: 2017-09-03 05:41:47
Local clock offset: -3.116 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2017-09-03 09:41:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.67 Mbit/s
95th percentile per-packet one-way delay: 2.001 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 244.67 Mbit/s
95th percentile per-packet one-way delay: 2.001 ms
Loss rate: 0.00%
```
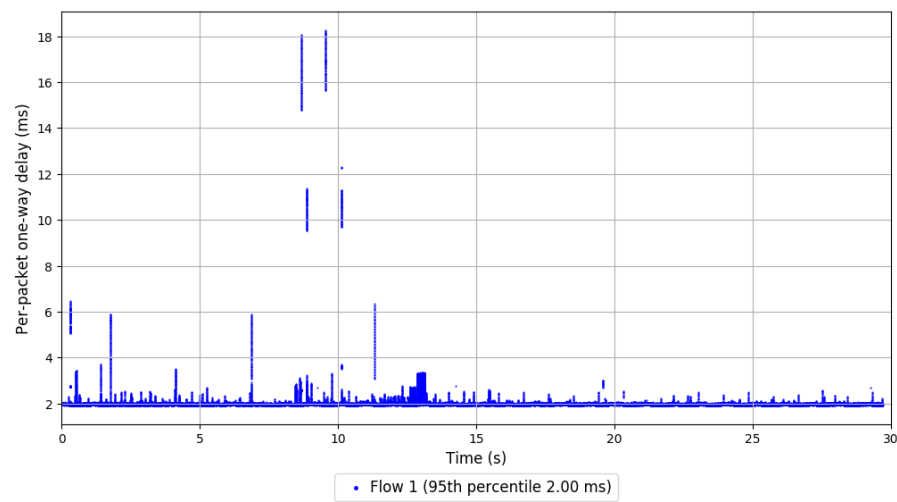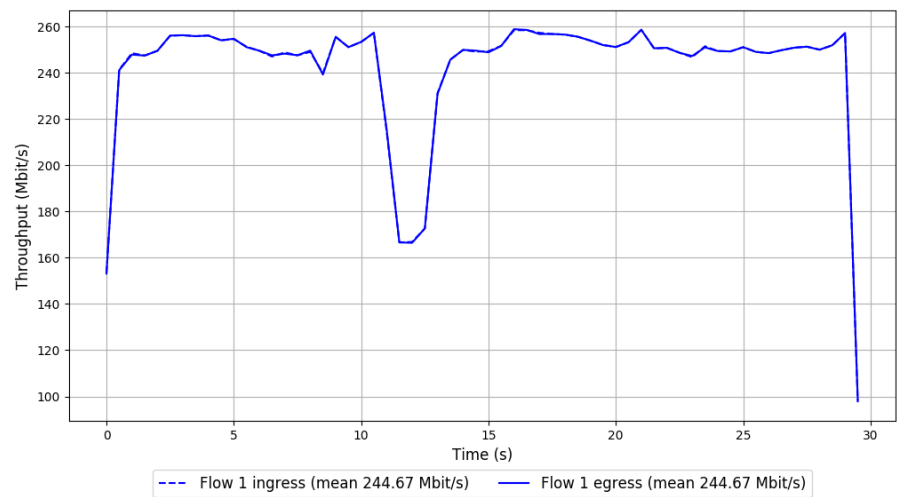
Run 6: Report of Indigo — Data Link

Flow 1 ingress (mean 244.67 Mbit/s)   Flow 1 egress (mean 244.67 Mbit/s)

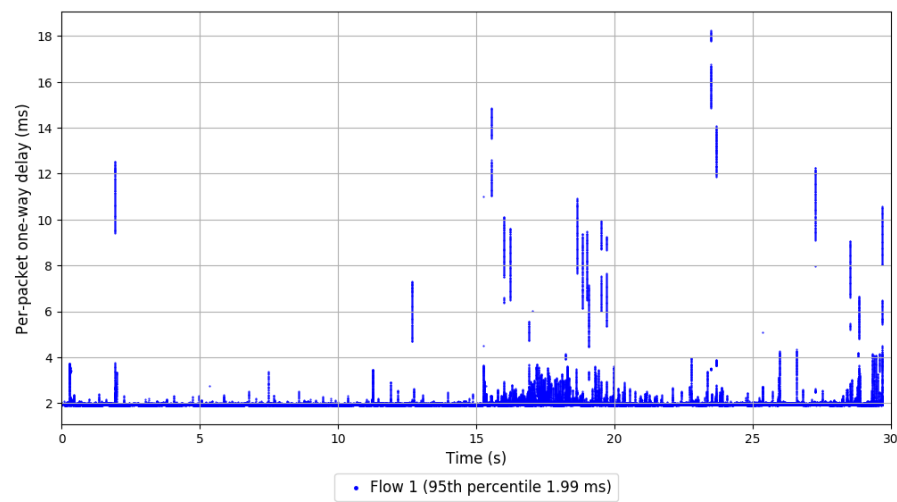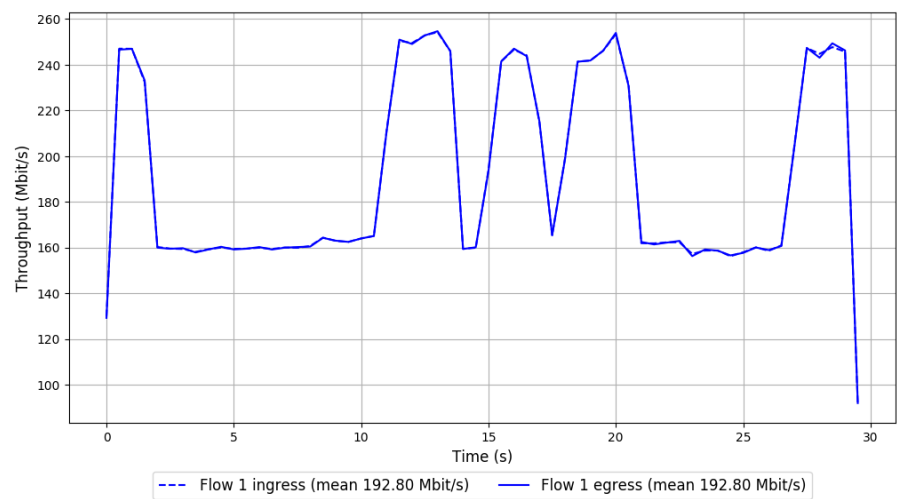Flow 1 (95th percentile 2.00 ms)

95

```
Run 7: Statistics of Indigo

Start at: 2017-09-03 06:00:44
End at: 2017-09-03 06:01:14
Local clock offset: -2.831 ms
Remote clock offset: -0.065 ms


# Below is generated by plot.py at 2017-09-03 09:41:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.80 Mbit/s
95th percentile per-packet one-way delay: 1.985 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 192.80 Mbit/s
95th percentile per-packet one-way delay: 1.985 ms
Loss rate: 0.00%
```

Run 7: Report of Indigo — Data Link

```
Run 8: Statistics of Indigo

Start at: 2017-09-03 06:19:58
End at: 2017-09-03 06:20:28
Local clock offset: -2.633 ms
Remote clock offset: 0.024 ms


# Below is generated by plot.py at 2017-09-03 09:41:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.41 Mbit/s
95th percentile per-packet one-way delay: 1.948 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.41 Mbit/s
95th percentile per-packet one-way delay: 1.948 ms
Loss rate: 0.00%
```
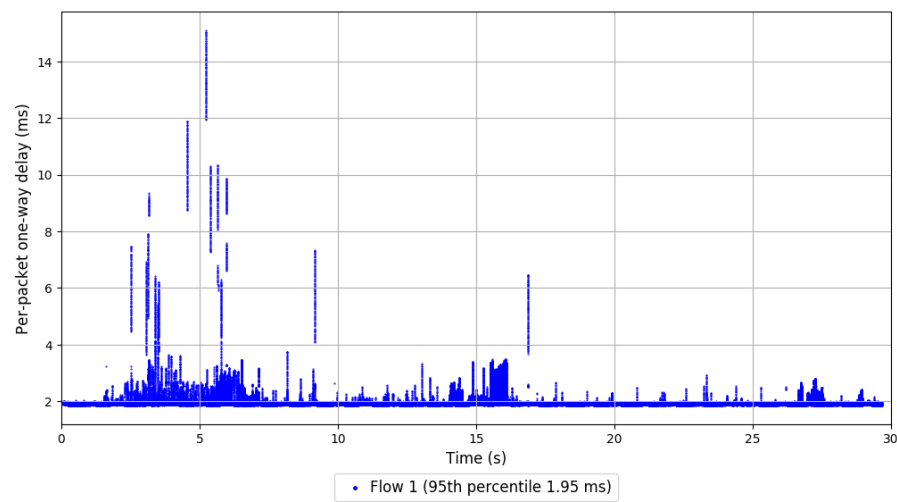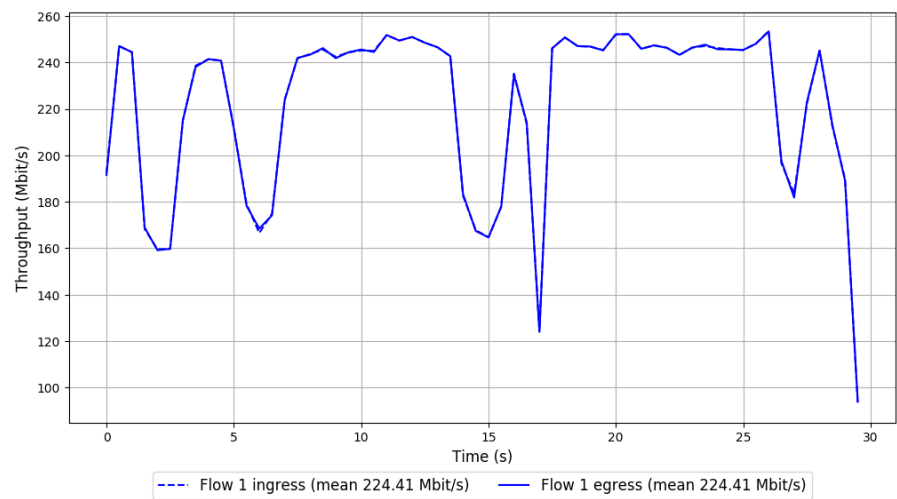
Run 8: Report of Indigo — Data Link

```
Run 9: Statistics of Indigo

Start at: 2017-09-03 06:39:11
End at: 2017-09-03 06:39:41
Local clock offset: -2.622 ms
Remote clock offset: 0.06 ms


# Below is generated by plot.py at 2017-09-03 09:42:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.19 Mbit/s
95th percentile per-packet one-way delay: 1.963 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.19 Mbit/s
95th percentile per-packet one-way delay: 1.963 ms
Loss rate: 0.00%
```
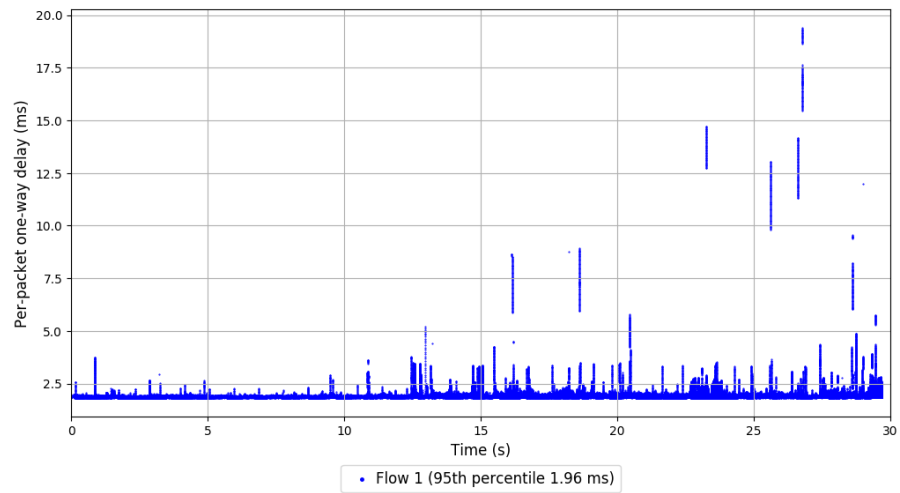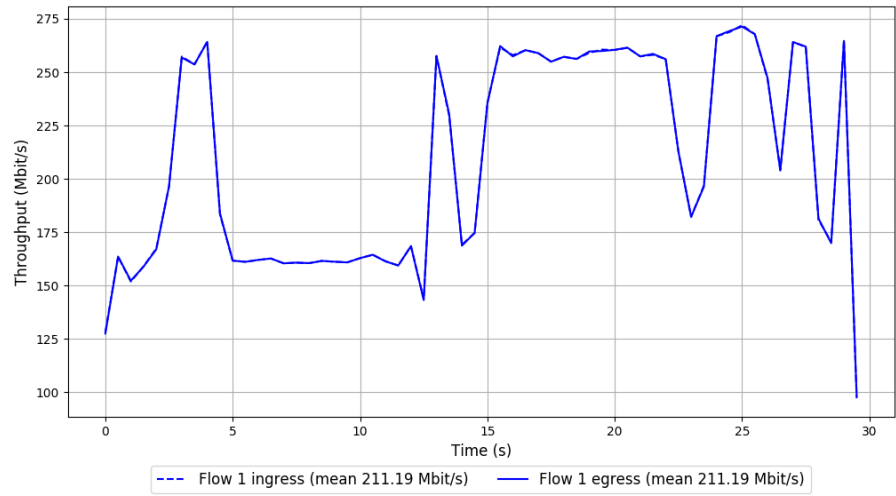
Run 9: Report of Indigo — Data Link

```
Run 10: Statistics of Indigo

Start at: 2017-09-03 06:58:30
End at: 2017-09-03 06:59:00
Local clock offset: -2.742 ms
Remote clock offset: -0.029 ms


# Below is generated by plot.py at 2017-09-03 09:42:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.13 Mbit/s
95th percentile per-packet one-way delay: 1.929 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 187.13 Mbit/s
95th percentile per-packet one-way delay: 1.929 ms
Loss rate: 0.00%
```
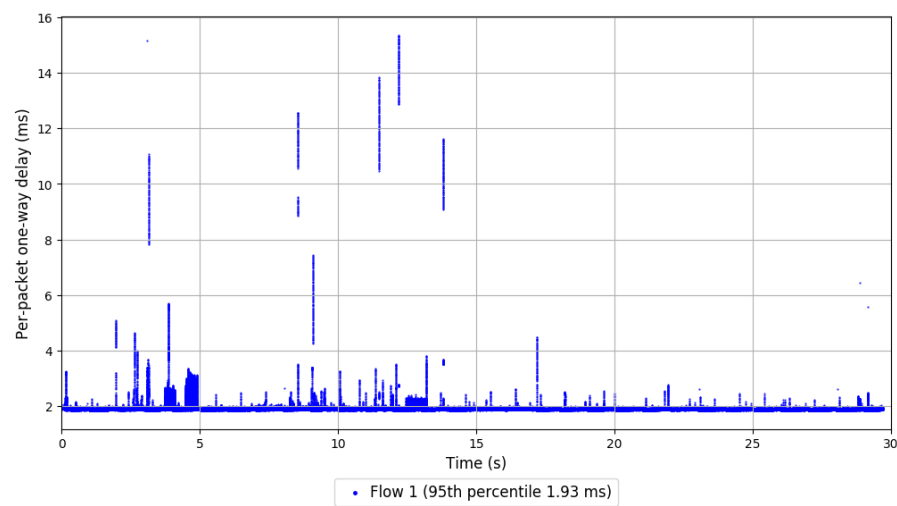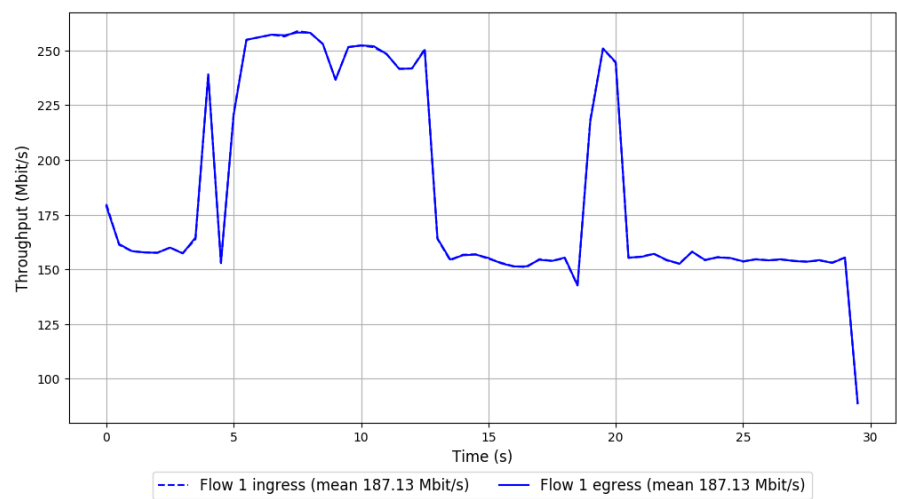
Run 10: Report of Indigo — Data Link

Flow 1 ingress (mean 187.13 Mbit/s)   Flow 1 egress (mean 187.13 Mbit/s)

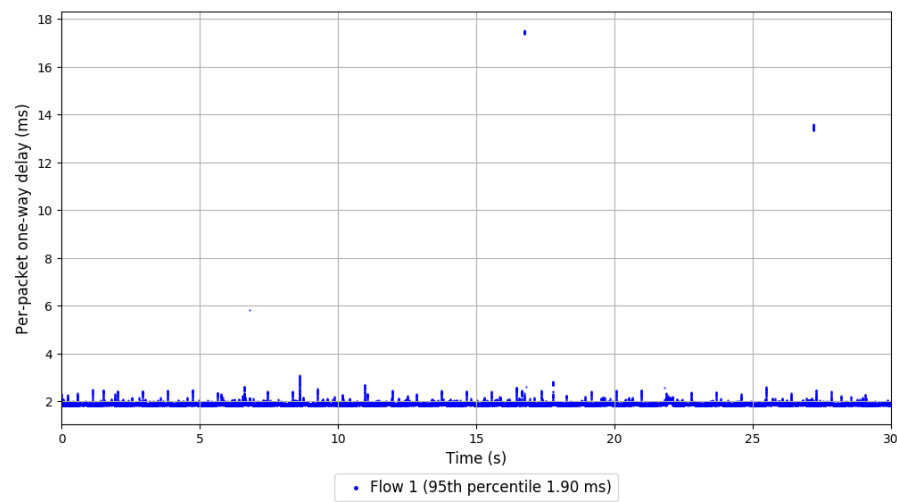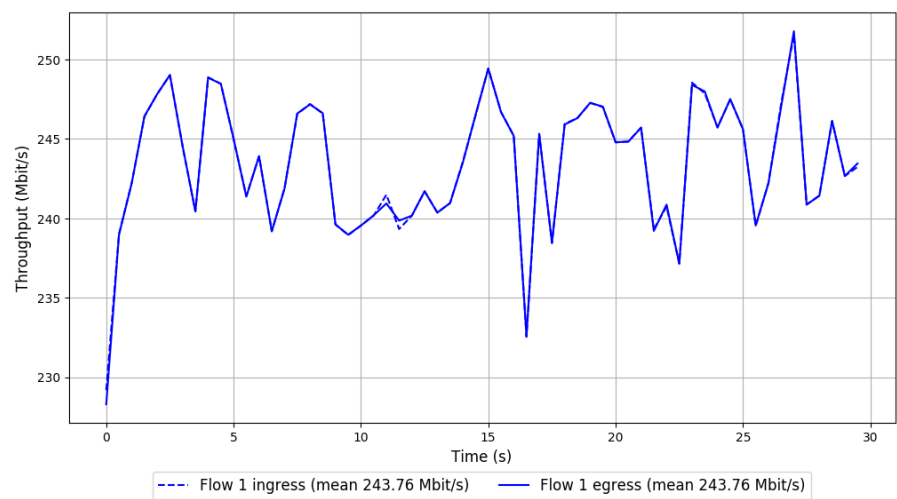Flow 1 (95th percentile 1.93 ms)

103

```
Run 1: Statistics of KohoCC

Start at: 2017-09-03 04:11:23
End at: 2017-09-03 04:11:53
Local clock offset: -3.59 ms
Remote clock offset: 0.191 ms


# Below is generated by plot.py at 2017-09-03 09:42:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.76 Mbit/s
95th percentile per-packet one-way delay: 1.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 243.76 Mbit/s
95th percentile per-packet one-way delay: 1.904 ms
Loss rate: 0.00%
```

Run 1: Report of KohoCC — Data Link

```
Run 2: Statistics of KohoCC

Start at: 2017-09-03 04:30:33
End at: 2017-09-03 04:31:03
Local clock offset: -3.46 ms
Remote clock offset: 0.064 ms


# Below is generated by plot.py at 2017-09-03 09:43:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 255.84 Mbit/s
95th percentile per-packet one-way delay: 1.923 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 255.84 Mbit/s
95th percentile per-packet one-way delay: 1.923 ms
Loss rate: 0.00%
```
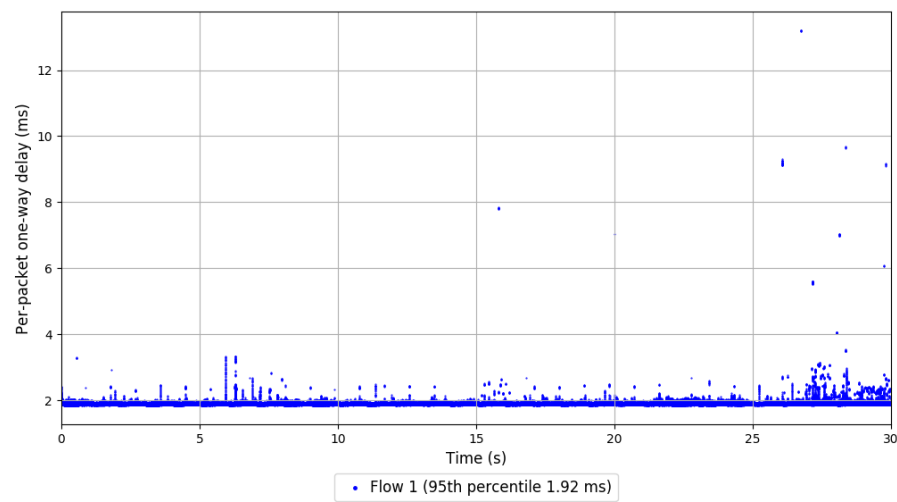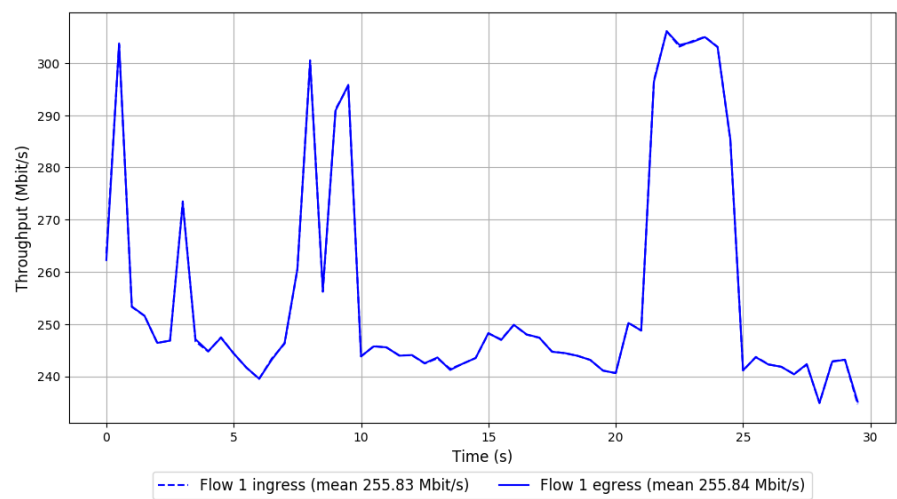
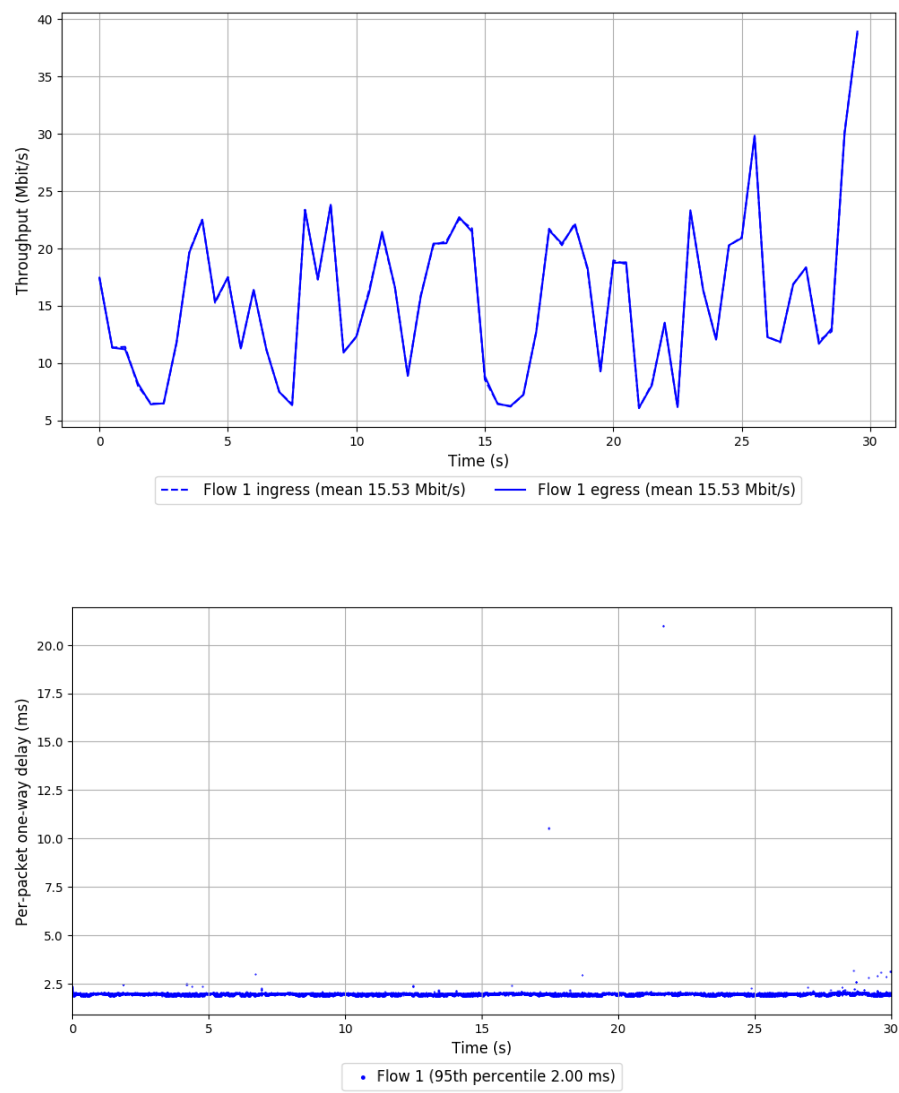Run 2: Report of KohoCC — Data Link

```
Run 3: Statistics of KohoCC

Start at: 2017-09-03 04:49:32
End at: 2017-09-03 04:50:02
Local clock offset: -3.337 ms
Remote clock offset: -0.013 ms


# Below is generated by plot.py at 2017-09-03 09:43:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.53 Mbit/s
95th percentile per-packet one-way delay: 1.997 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.53 Mbit/s
95th percentile per-packet one-way delay: 1.997 ms
Loss rate: 0.00%
```

Run 3: Report of KohoCC — Data Link

Flow 1 ingress (mean 15.53 Mbit/s) --- Flow 1 egress (mean 15.53 Mbit/s)

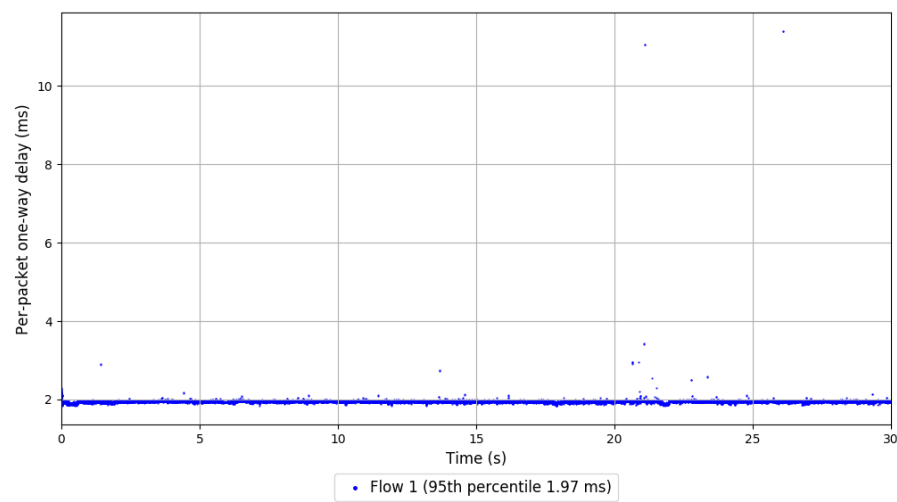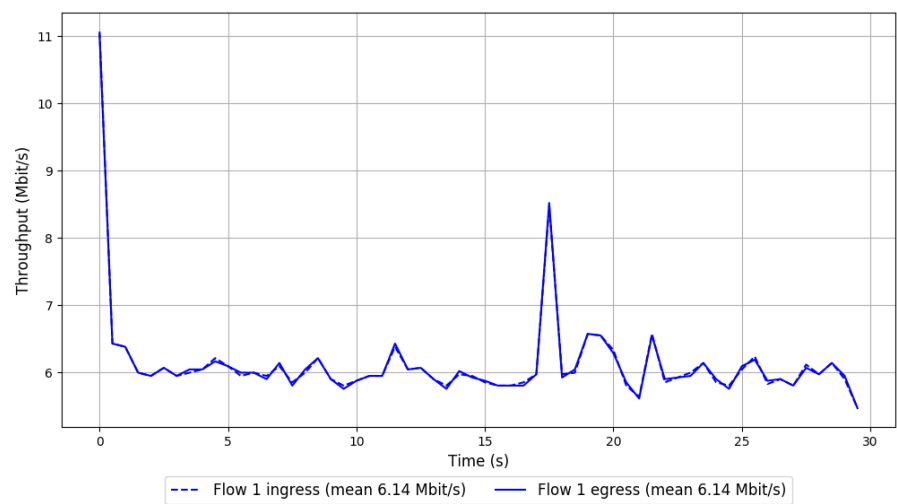Flow 1 (95th percentile 2.00 ms)

```
Run 4: Statistics of KohoCC

Start at: 2017-09-03 05:08:40
End at: 2017-09-03 05:09:10
Local clock offset: -3.155 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2017-09-03 09:43:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.14 Mbit/s
95th percentile per-packet one-way delay: 1.966 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.14 Mbit/s
95th percentile per-packet one-way delay: 1.966 ms
Loss rate: 0.00%
```

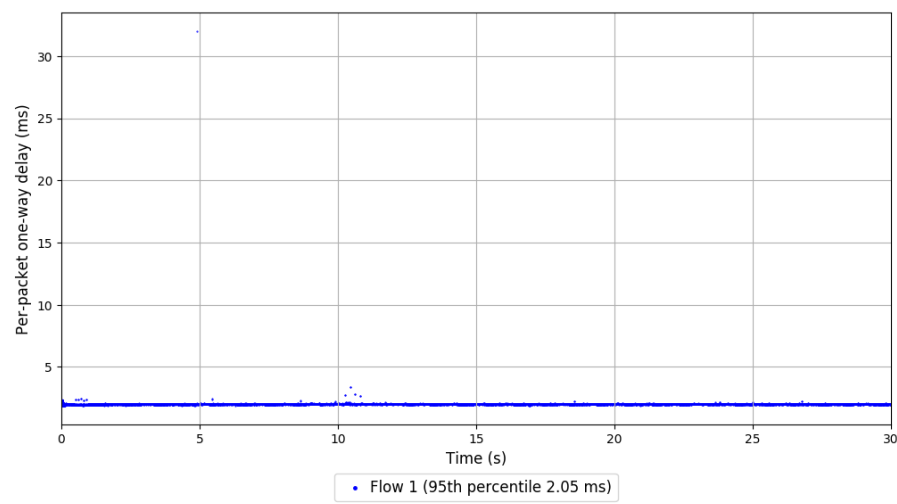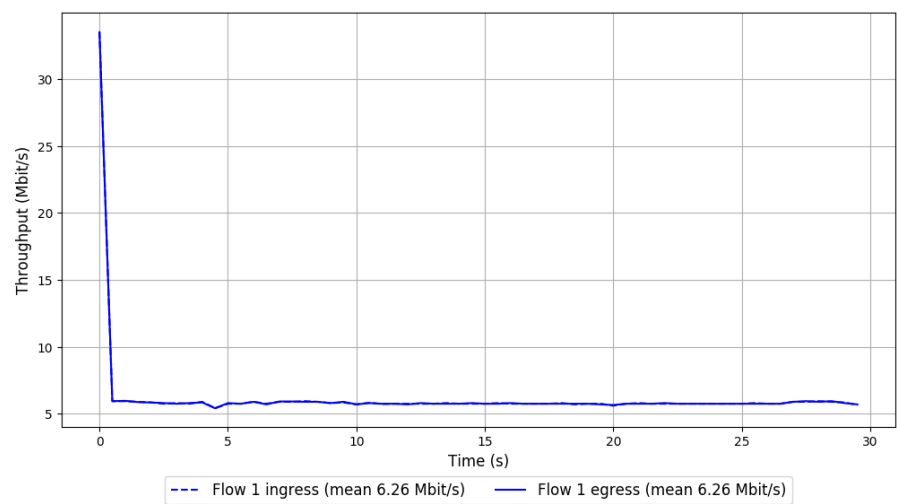# Run 4: Report of KohoCC — Data Link

```
Run 5: Statistics of KohoCC

Start at: 2017-09-03 05:27:50
End at: 2017-09-03 05:28:20
Local clock offset: -3.07 ms
Remote clock offset: -0.078 ms


# Below is generated by plot.py at 2017-09-03 09:43:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 2.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 2.049 ms
Loss rate: 0.00%
```

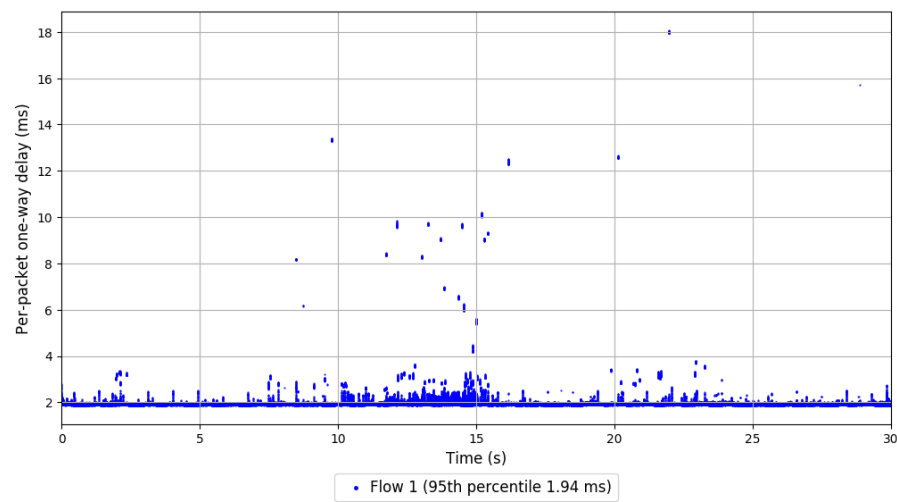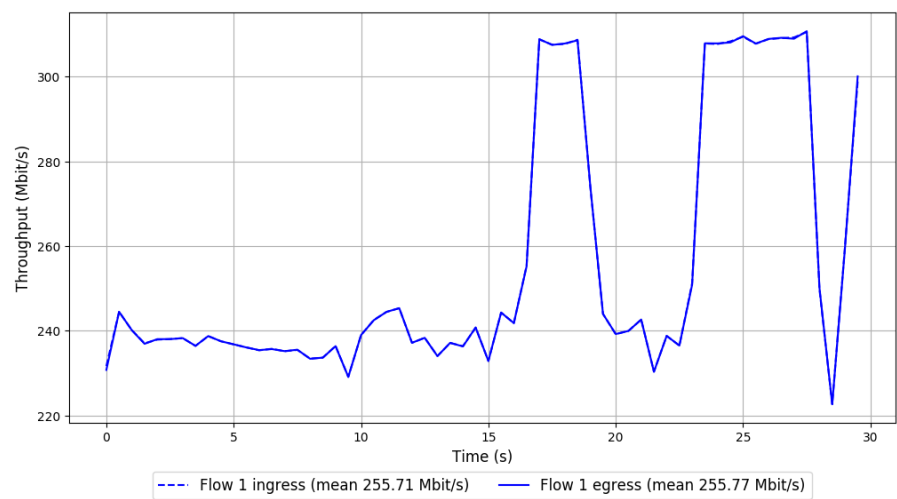Run 5: Report of KohoCC — Data Link

```
Run 6: Statistics of KohoCC

Start at: 2017-09-03 05:46:48
End at: 2017-09-03 05:47:19
Local clock offset: -2.998 ms
Remote clock offset: -0.141 ms


# Below is generated by plot.py at 2017-09-03 09:43:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 255.77 Mbit/s
95th percentile per-packet one-way delay: 1.944 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 255.77 Mbit/s
95th percentile per-packet one-way delay: 1.944 ms
Loss rate: 0.00%
```

Run 6: Report of KohoCC — Data Link

Flow 1 ingress (mean 255.71 Mbit/s)   Flow 1 egress (mean 255.77 Mbit/s)

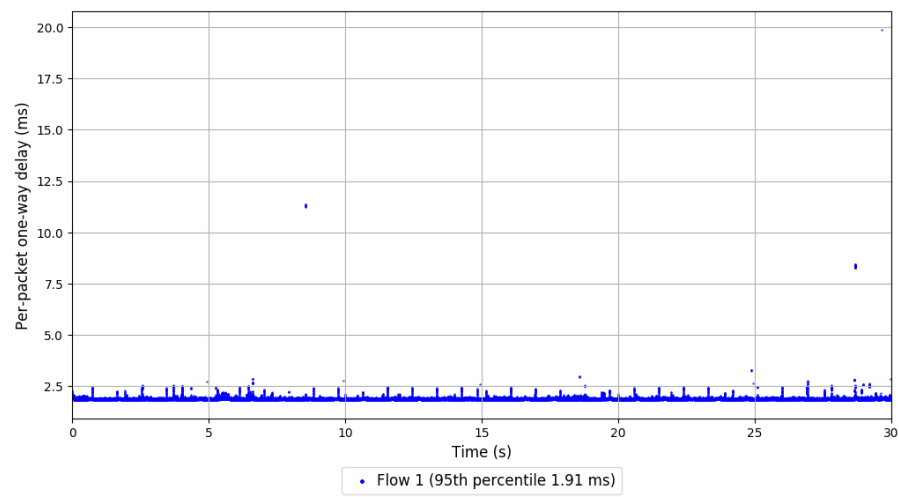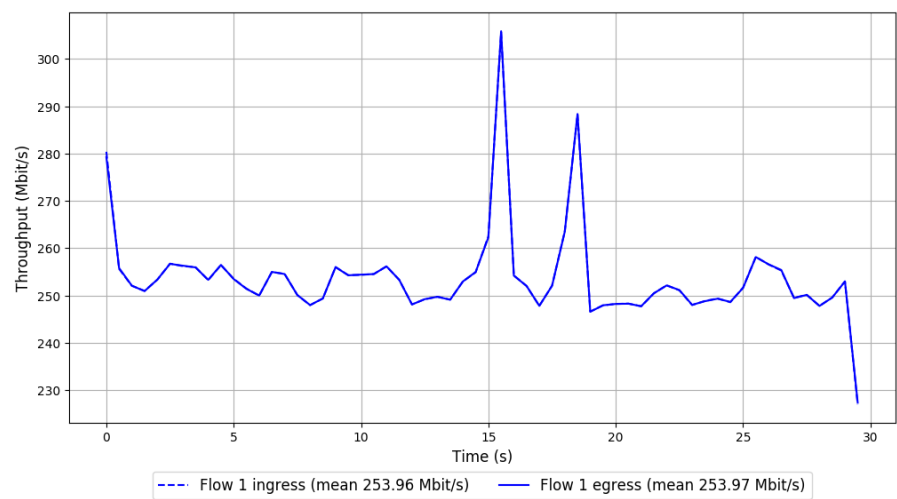Flow 1 (95th percentile 1.94 ms)

```
Run 7: Statistics of KohoCC

Start at: 2017-09-03 06:06:11
End at: 2017-09-03 06:06:41
Local clock offset: -2.73 ms
Remote clock offset: -0.059 ms


# Below is generated by plot.py at 2017-09-03 09:43:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 253.97 Mbit/s
95th percentile per-packet one-way delay: 1.910 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 253.97 Mbit/s
95th percentile per-packet one-way delay: 1.910 ms
Loss rate: 0.00%
```

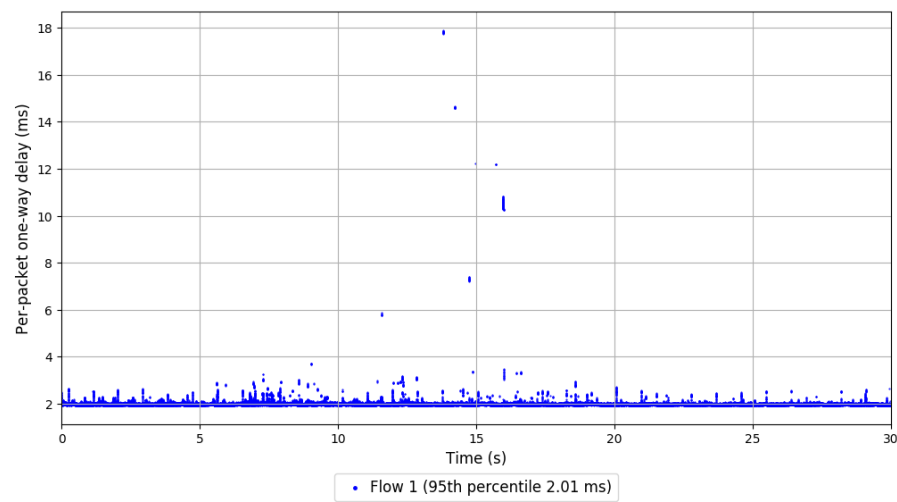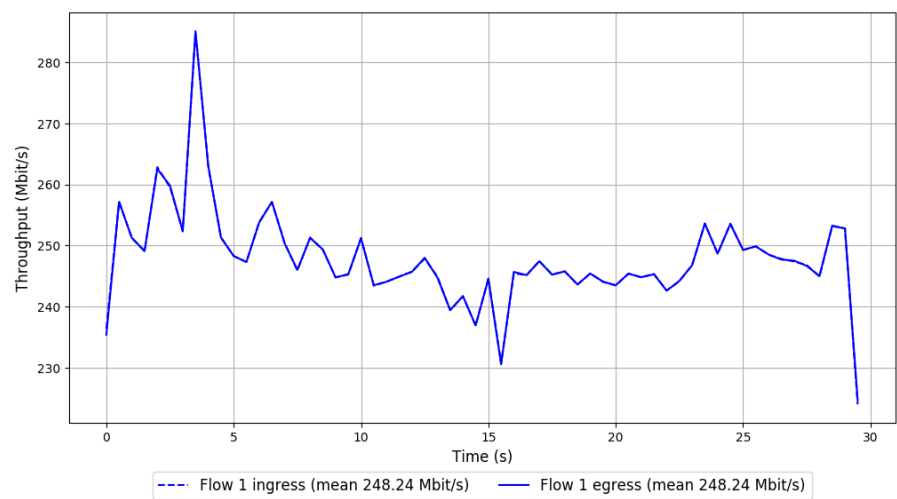# Run 7: Report of KohoCC — Data Link

```
Run 8: Statistics of KohoCC

Start at: 2017-09-03 06:25:29
End at: 2017-09-03 06:25:59
Local clock offset: -2.738 ms
Remote clock offset: -0.001 ms


# Below is generated by plot.py at 2017-09-03 09:43:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.24 Mbit/s
95th percentile per-packet one-way delay: 2.009 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 248.24 Mbit/s
95th percentile per-packet one-way delay: 2.009 ms
Loss rate: 0.00%
```

Run 8: Report of KohoCC — Data Link

Flow 1 ingress (mean 248.24 Mbit/s)   Flow 1 egress (mean 248.24 Mbit/s)

• Flow 1 (95th percentile 2.01 ms)

```
Run 9: Statistics of KohoCC

Start at: 2017-09-03 06:44:41
End at: 2017-09-03 06:45:11
Local clock offset: -2.721 ms
Remote clock offset: 0.081 ms


# Below is generated by plot.py at 2017-09-03 09:44:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 263.02 Mbit/s
95th percentile per-packet one-way delay: 1.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 263.02 Mbit/s
95th percentile per-packet one-way delay: 1.989 ms
Loss rate: 0.00%
```
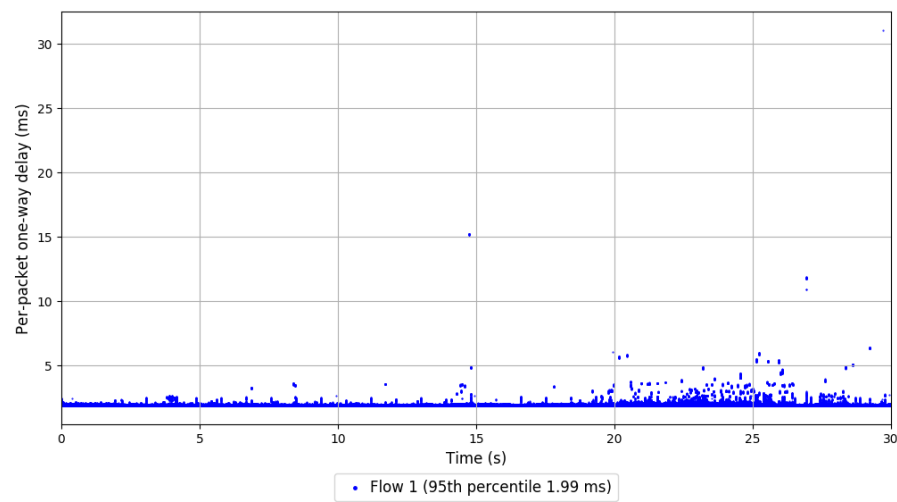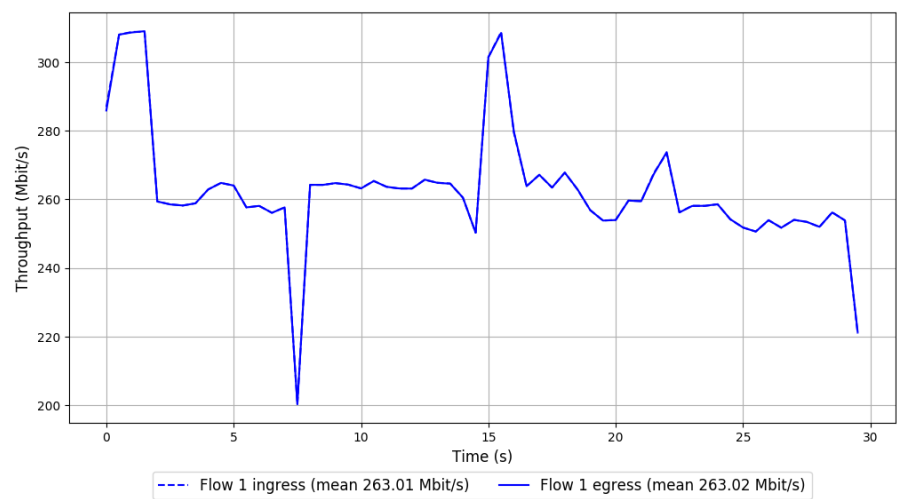
Run 9: Report of KohoCC — Data Link

Flow 1 ingress (mean 263.01 Mbit/s)   Flow 1 egress (mean 263.02 Mbit/s)

Flow 1 (95th percentile 1.99 ms)

```
Run 10: Statistics of KohoCC

Start at: 2017-09-03 07:03:58
End at: 2017-09-03 07:04:28
Local clock offset: -2.683 ms
Remote clock offset: 0.012 ms


# Below is generated by plot.py at 2017-09-03 09:44:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.11 Mbit/s
95th percentile per-packet one-way delay: 1.921 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 254.11 Mbit/s
95th percentile per-packet one-way delay: 1.921 ms
Loss rate: 0.00%
```
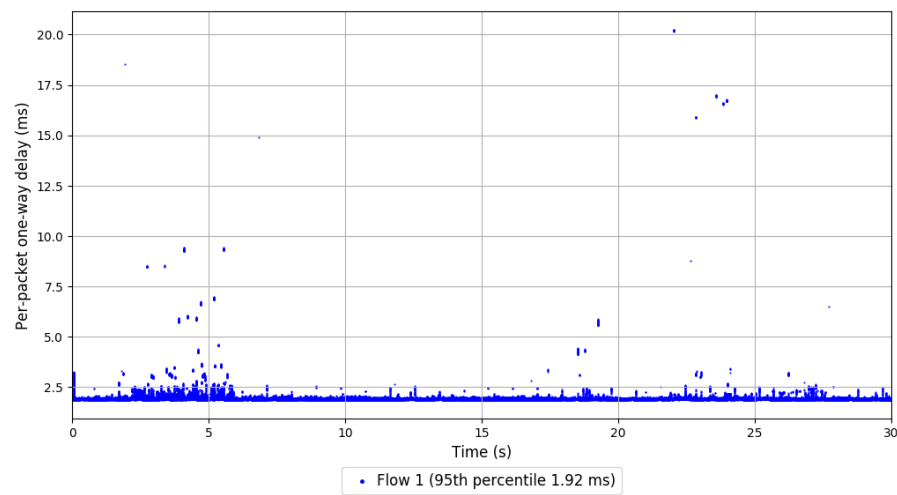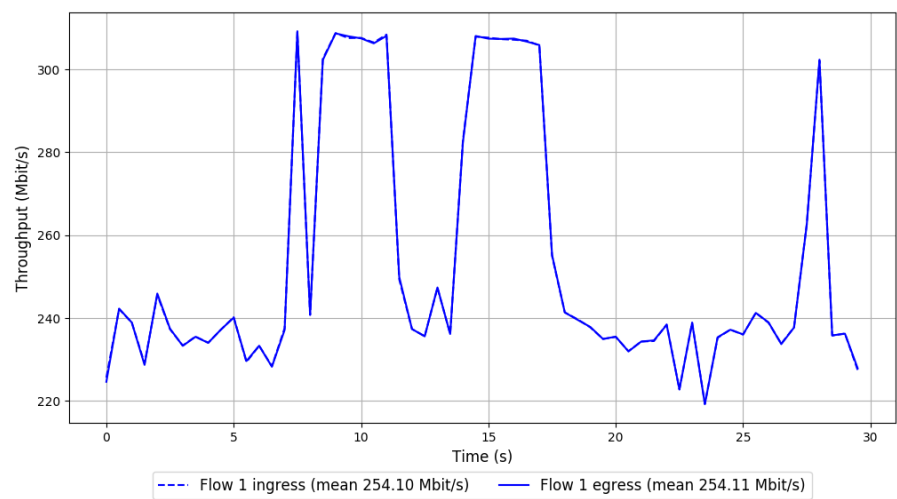
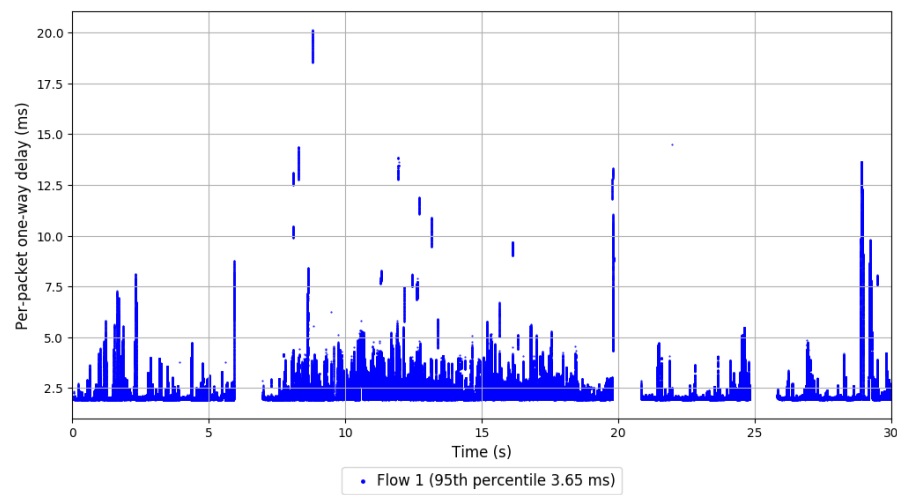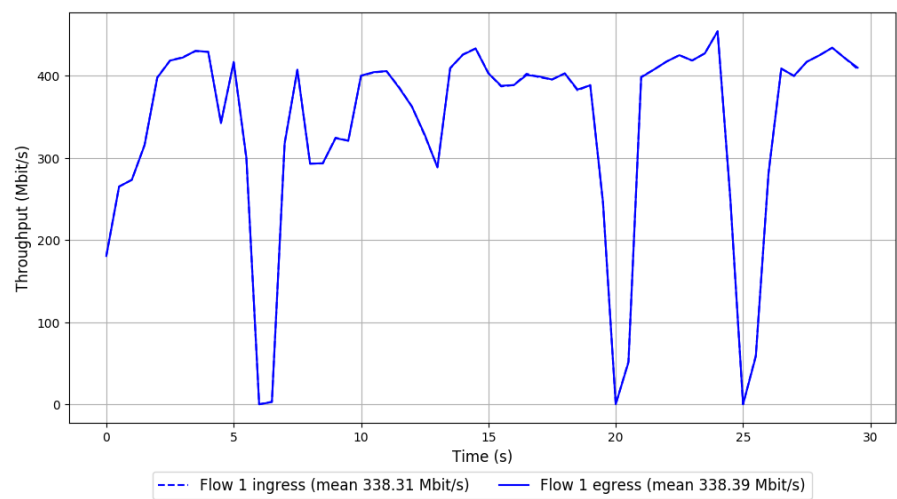Run 10: Report of KohoCC — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2017-09-03 04:14:50
End at: 2017-09-03 04:15:20
Local clock offset: -3.608 ms
Remote clock offset: 0.234 ms


# Below is generated by plot.py at 2017-09-03 09:44:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.39 Mbit/s
95th percentile per-packet one-way delay: 3.645 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 338.39 Mbit/s
95th percentile per-packet one-way delay: 3.645 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 338.31 Mbit/s) ---- Flow 1 egress (mean 338.39 Mbit/s) ——

Flow 1 (95th percentile 3.65 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2017-09-03 04:34:01
End at: 2017-09-03 04:34:31
Local clock offset: -3.479 ms
Remote clock offset: 0.04 ms


# Below is generated by plot.py at 2017-09-03 09:45:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 314.80 Mbit/s
95th percentile per-packet one-way delay: 3.491 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 314.80 Mbit/s
95th percentile per-packet one-way delay: 3.491 ms
Loss rate: 0.00%
```
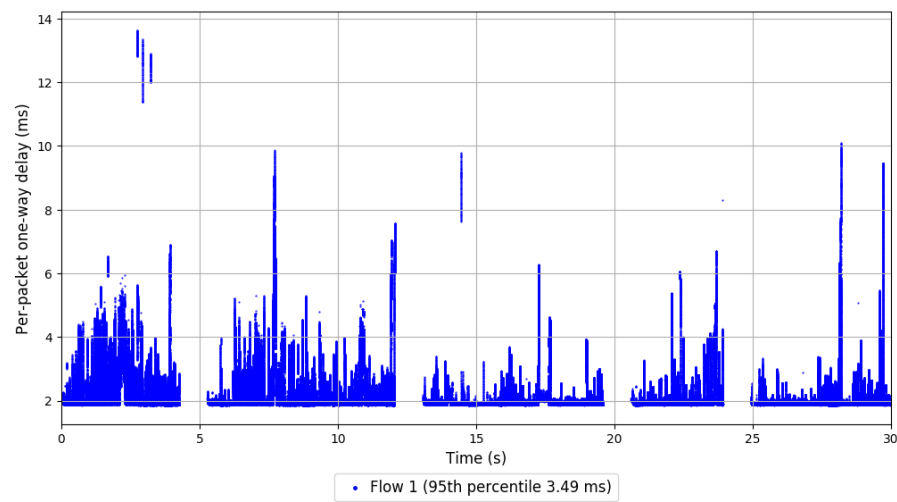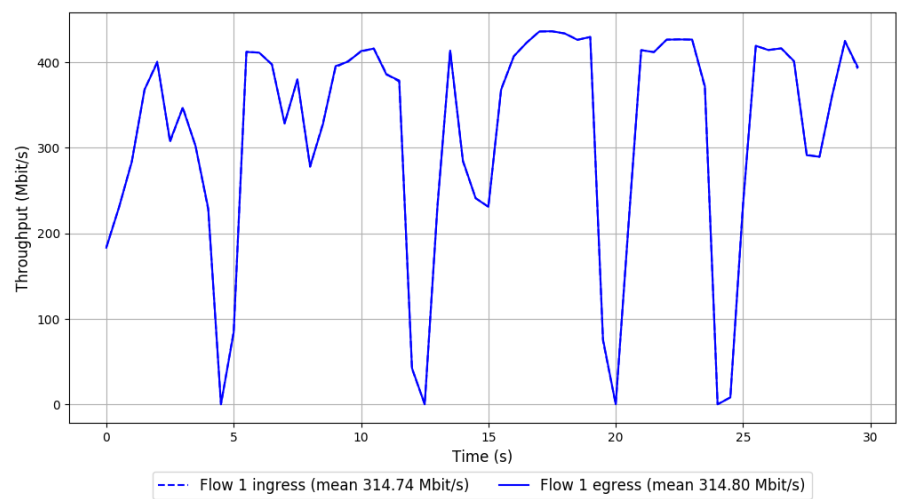
Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 314.74 Mbit/s)   Flow 1 egress (mean 314.80 Mbit/s)

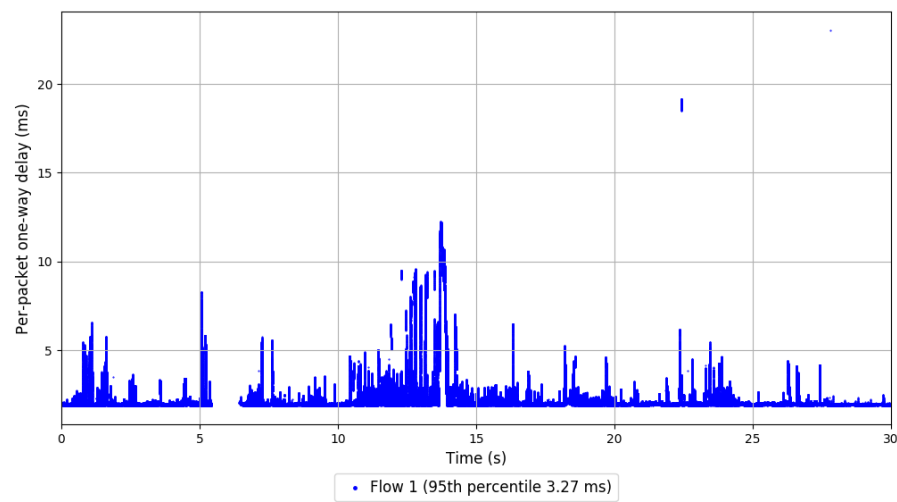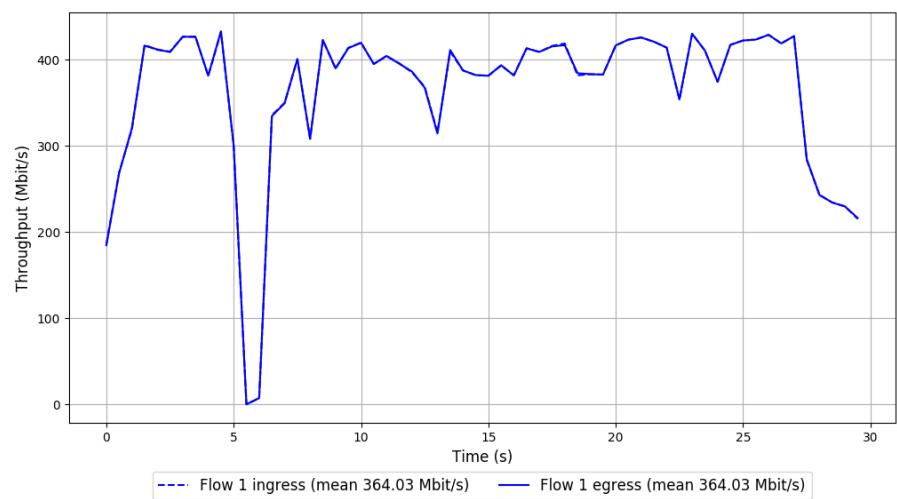Flow 1 (95th percentile 3.49 ms)

```
Run 3: Statistics of LEDBAT

Start at: 2017-09-03 04:52:49
End at: 2017-09-03 04:53:19
Local clock offset: -3.327 ms
Remote clock offset: -0.045 ms


# Below is generated by plot.py at 2017-09-03 09:45:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.03 Mbit/s
95th percentile per-packet one-way delay: 3.270 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 364.03 Mbit/s
95th percentile per-packet one-way delay: 3.270 ms
Loss rate: 0.00%
```

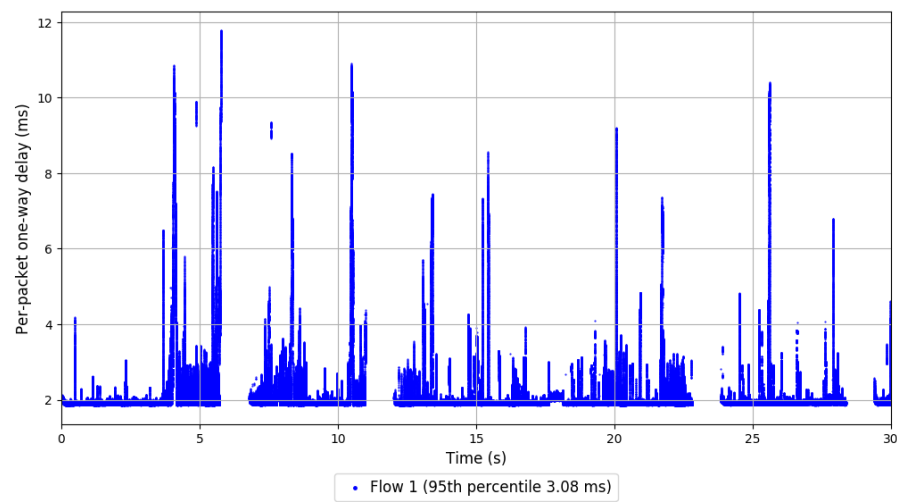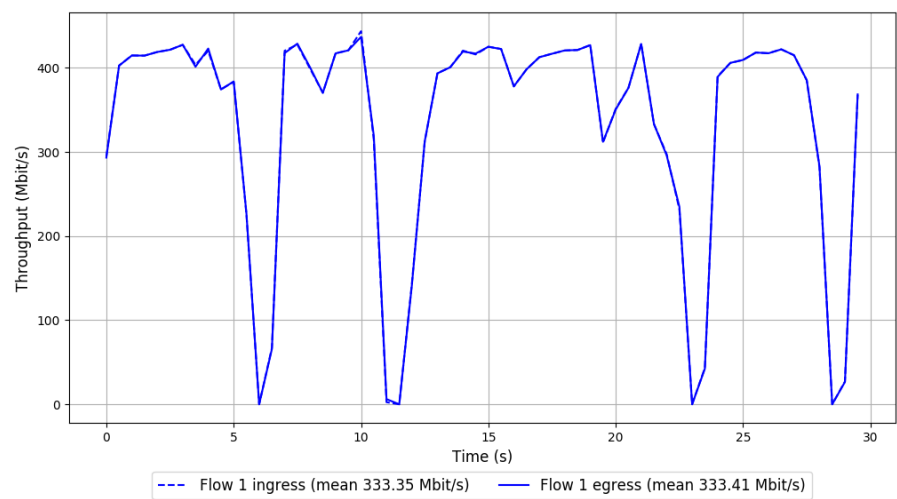Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2017-09-03 05:11:56
End at: 2017-09-03 05:12:26
Local clock offset: -3.14 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2017-09-03 09:45:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 333.41 Mbit/s
95th percentile per-packet one-way delay: 3.078 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 333.41 Mbit/s
95th percentile per-packet one-way delay: 3.078 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: 2017-09-03 05:31:02
End at: 2017-09-03 05:31:32
Local clock offset: -3.105 ms
Remote clock offset: -0.14 ms


# Below is generated by plot.py at 2017-09-03 09:46:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 371.23 Mbit/s
95th percentile per-packet one-way delay: 3.035 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 371.23 Mbit/s
95th percentile per-packet one-way delay: 3.035 ms
Loss rate: 0.00%
```
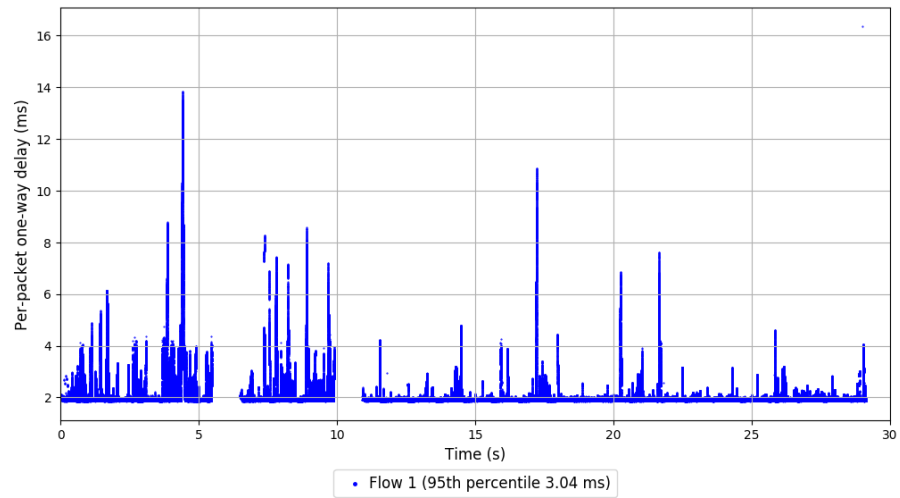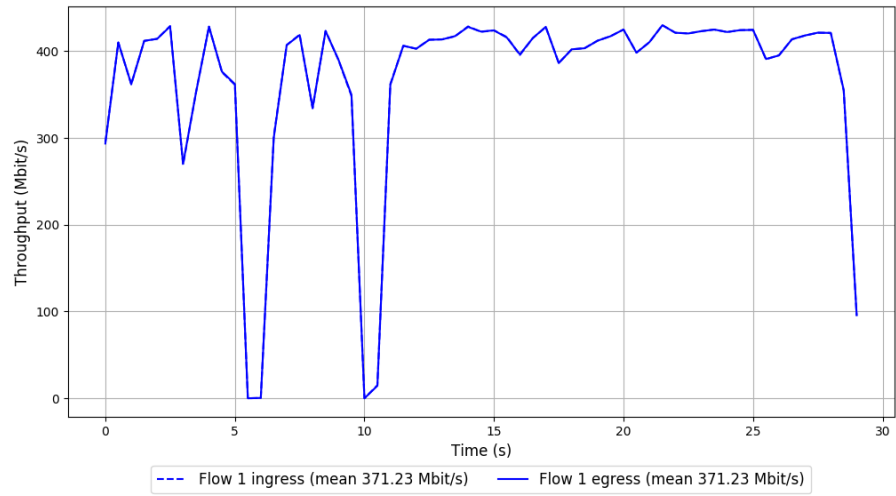
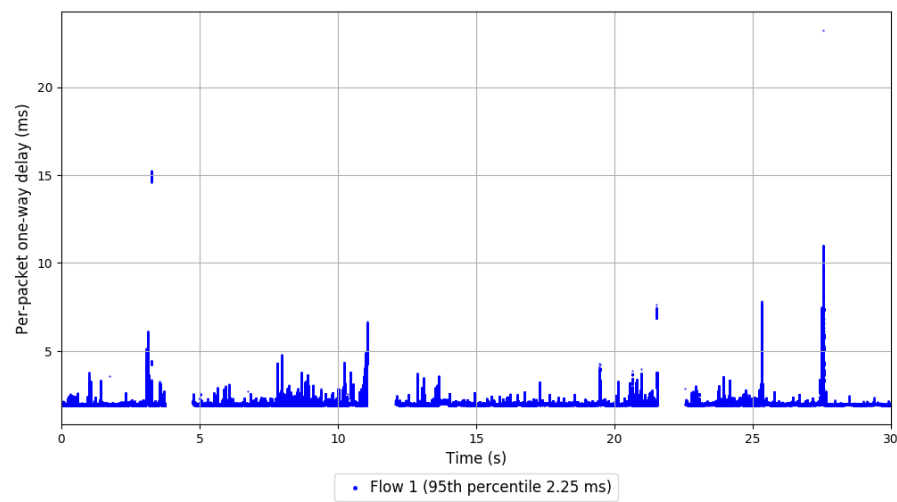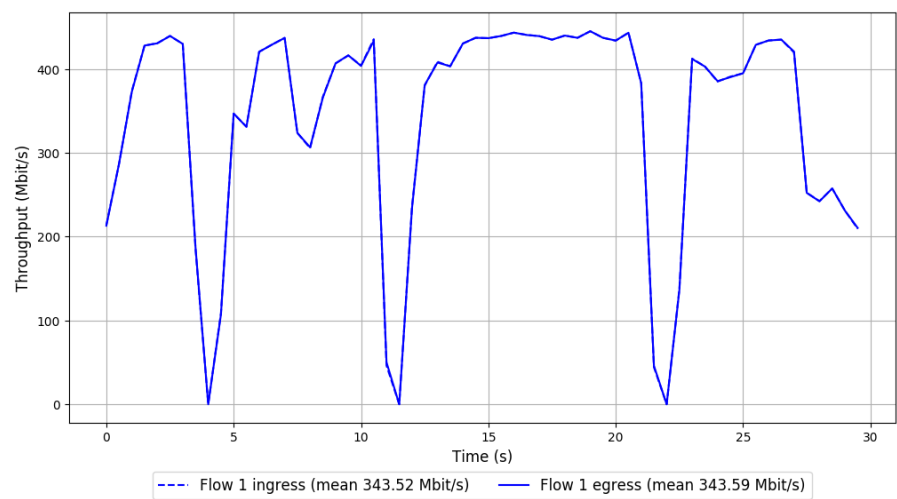# Run 5: Report of LEDBAT — Data Link

```
Run 6: Statistics of LEDBAT

Start at: 2017-09-03 05:50:20
End at: 2017-09-03 05:50:50
Local clock offset: -2.98 ms
Remote clock offset: -0.137 ms


# Below is generated by plot.py at 2017-09-03 09:46:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.59 Mbit/s
95th percentile per-packet one-way delay: 2.255 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 343.59 Mbit/s
95th percentile per-packet one-way delay: 2.255 ms
Loss rate: 0.00%
```

Run 6: Report of LEDBAT — Data Link

Flow 1 ingress (mean 343.52 Mbit/s) — Flow 1 egress (mean 343.59 Mbit/s)

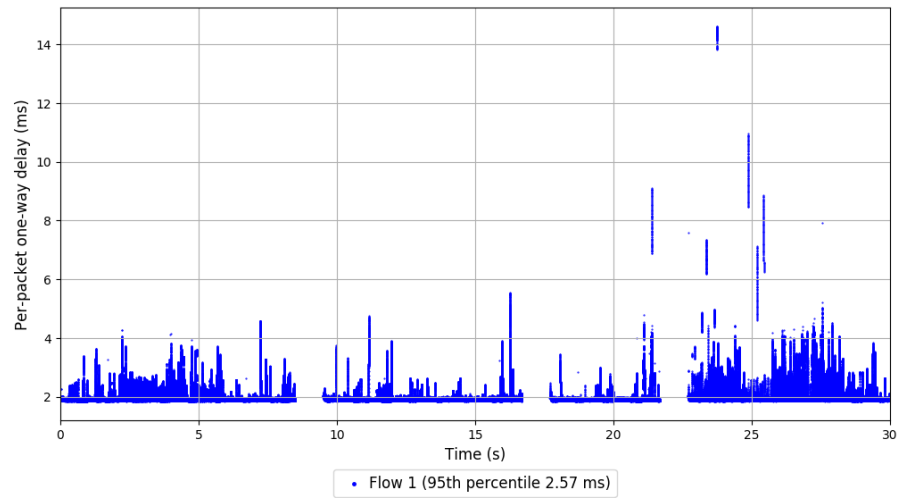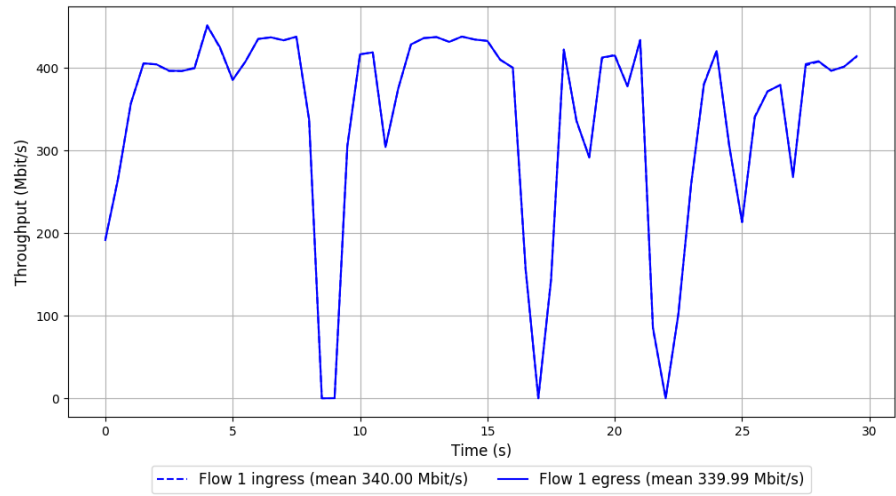Flow 1 (95th percentile 2.25 ms)

```
Run 7: Statistics of LEDBAT

Start at: 2017-09-03 06:09:38
End at: 2017-09-03 06:10:08
Local clock offset: -2.7 ms
Remote clock offset: -0.027 ms


# Below is generated by plot.py at 2017-09-03 09:47:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.99 Mbit/s
95th percentile per-packet one-way delay: 2.571 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 339.99 Mbit/s
95th percentile per-packet one-way delay: 2.571 ms
Loss rate: 0.00%
```

Run 7: Report of LEDBAT — Data Link

Flow 1 ingress (mean 340.00 Mbit/s)   —— Flow 1 egress (mean 339.99 Mbit/s)

· Flow 1 (95th percentile 2.57 ms)

```
Run 8: Statistics of LEDBAT

Start at: 2017-09-03 06:28:55
End at: 2017-09-03 06:29:25
Local clock offset: -2.595 ms
Remote clock offset: 0.051 ms


# Below is generated by plot.py at 2017-09-03 09:47:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.29 Mbit/s
95th percentile per-packet one-way delay: 2.523 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 339.29 Mbit/s
95th percentile per-packet one-way delay: 2.523 ms
Loss rate: 0.00%
```
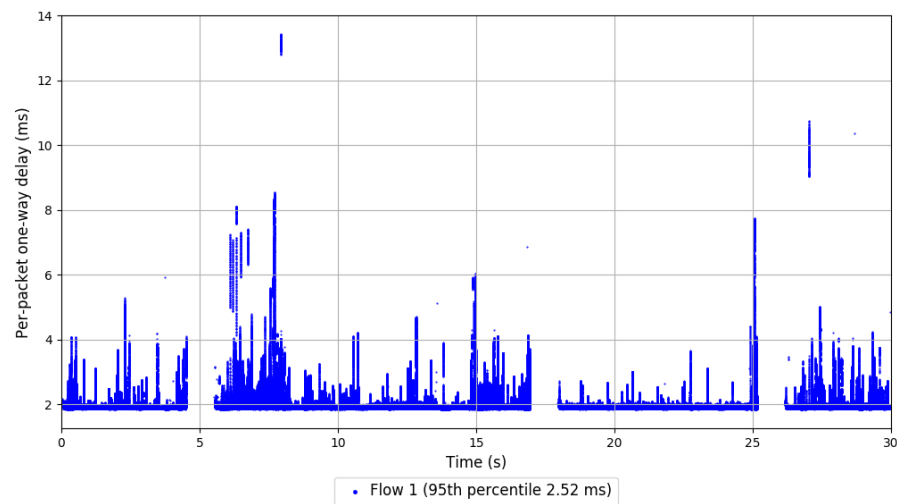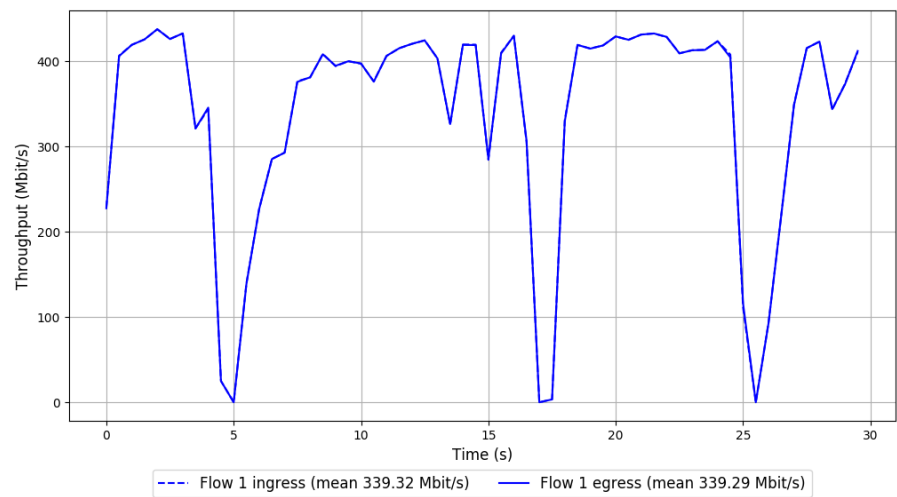
Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 339.32 Mbit/s)   Flow 1 egress (mean 339.29 Mbit/s)

• Flow 1 (95th percentile 2.52 ms)

```
Run 9: Statistics of LEDBAT

Start at: 2017-09-03 06:48:09
End at: 2017-09-03 06:48:39
Local clock offset: -2.661 ms
Remote clock offset: 0.074 ms


# Below is generated by plot.py at 2017-09-03 09:48:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 351.39 Mbit/s
95th percentile per-packet one-way delay: 2.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 351.39 Mbit/s
95th percentile per-packet one-way delay: 2.579 ms
Loss rate: 0.00%
```
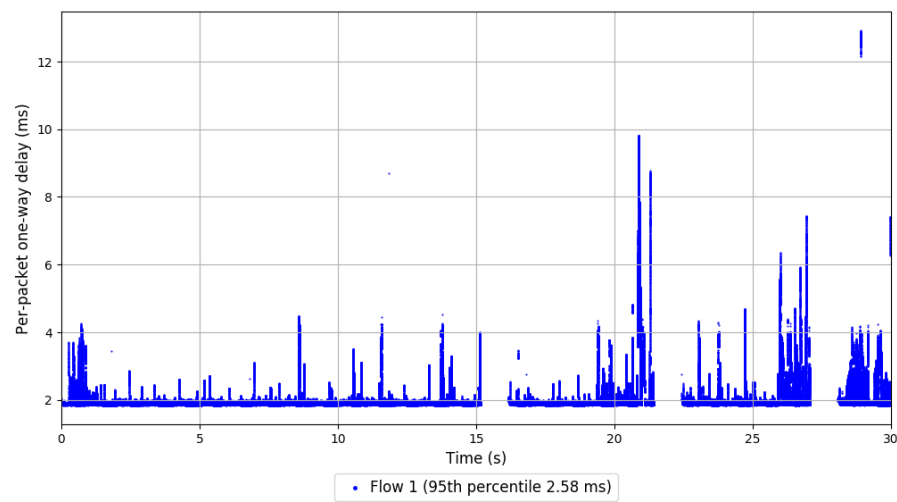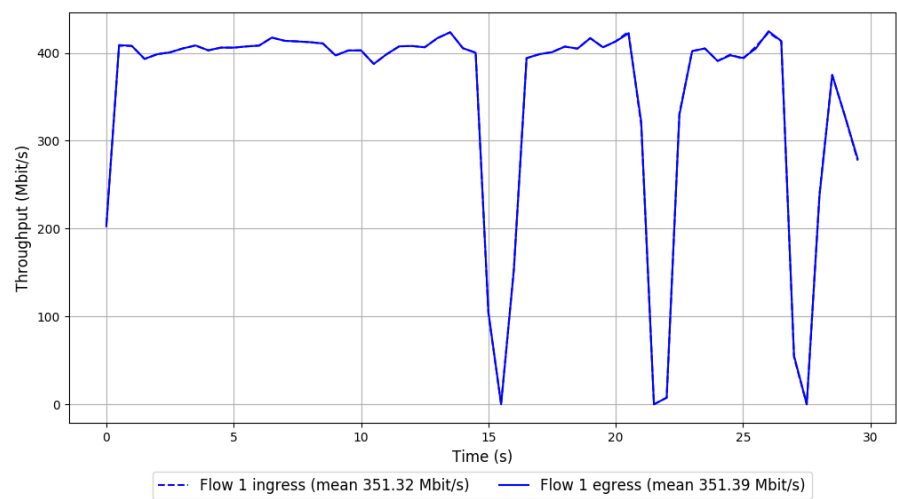
Run 9: Report of LEDBAT — Data Link

Flow 1 ingress (mean 351.32 Mbit/s)   Flow 1 egress (mean 351.39 Mbit/s)
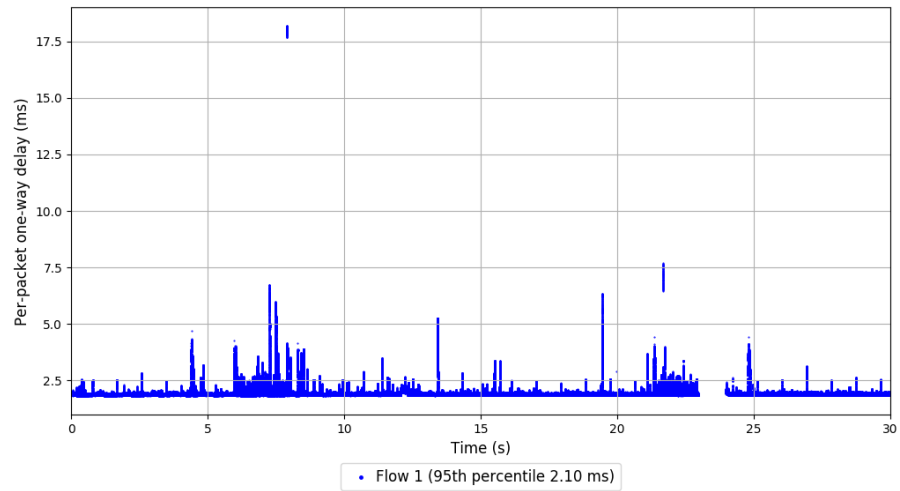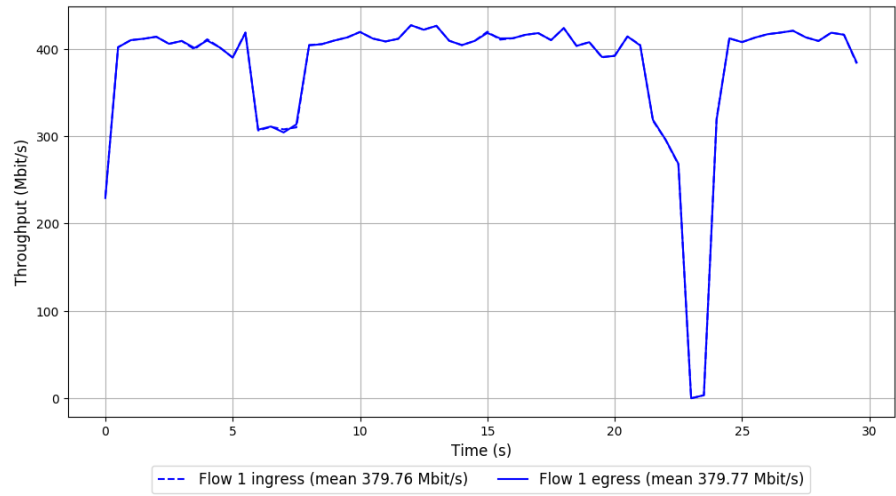

Flow 1 (95th percentile 2.58 ms)

```
Run 10: Statistics of LEDBAT

Start at: 2017-09-03 07:07:25
End at: 2017-09-03 07:07:55
Local clock offset: -2.629 ms
Remote clock offset: -0.051 ms


# Below is generated by plot.py at 2017-09-03 09:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 379.77 Mbit/s
95th percentile per-packet one-way delay: 2.105 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 379.77 Mbit/s
95th percentile per-packet one-way delay: 2.105 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

Flow 1 ingress (mean 379.76 Mbit/s) --- Flow 1 egress (mean 379.77 Mbit/s)

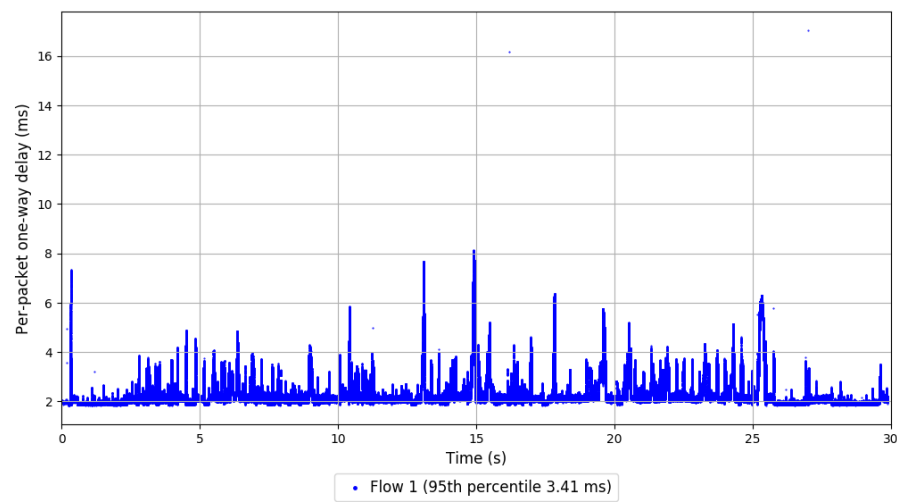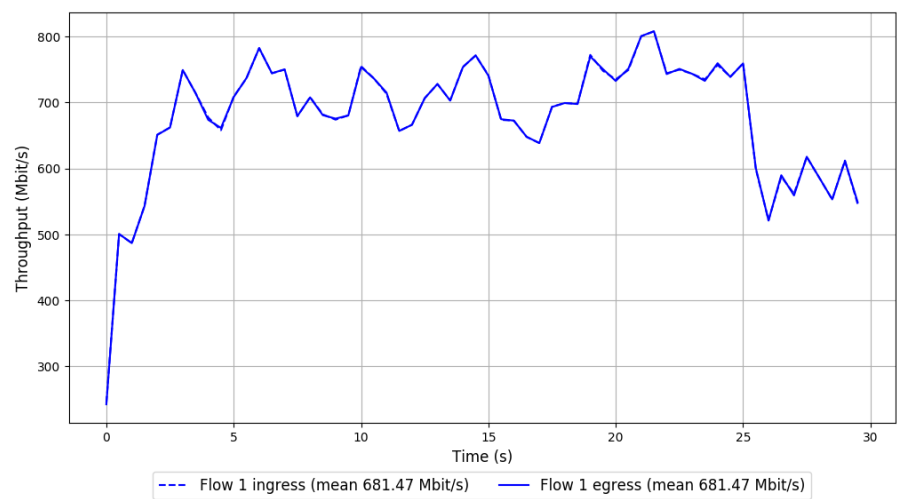Flow 1 (95th percentile 2.10 ms)

```
Run 1: Statistics of PCC

Start at: 2017-09-03 04:16:15
End at: 2017-09-03 04:16:45
Local clock offset: -3.545 ms
Remote clock offset: 0.214 ms


# Below is generated by plot.py at 2017-09-03 09:49:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 681.47 Mbit/s
95th percentile per-packet one-way delay: 3.412 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 681.47 Mbit/s
95th percentile per-packet one-way delay: 3.412 ms
Loss rate: 0.00%
```
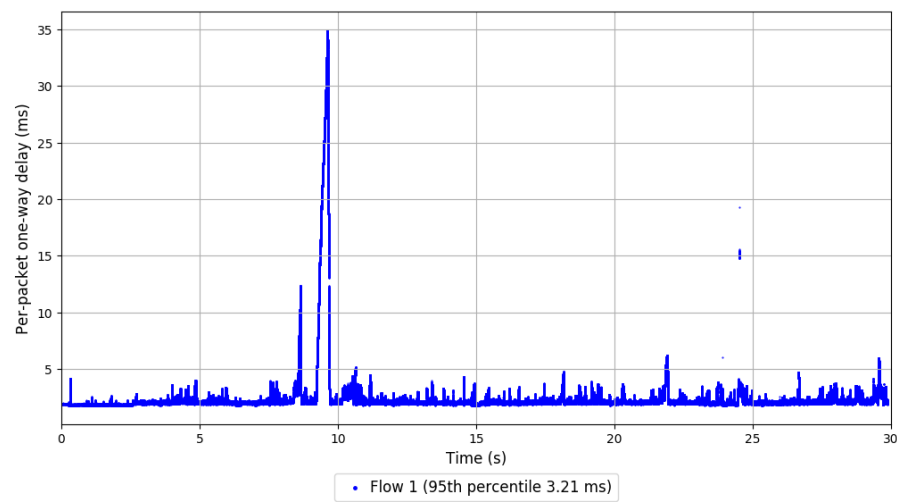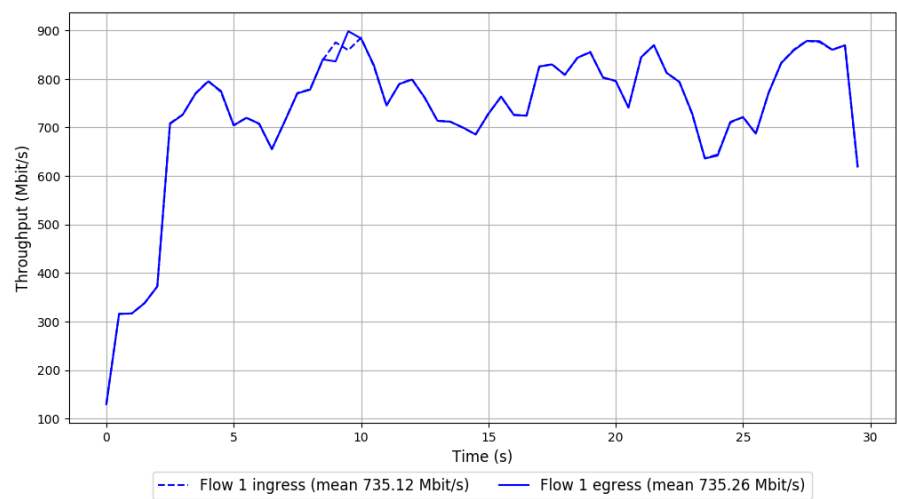
Run 1: Report of PCC — Data Link

Flow 1 ingress (mean 681.47 Mbit/s)   Flow 1 egress (mean 681.47 Mbit/s)

Flow 1 (95th percentile 3.41 ms)

```
Run 2: Statistics of PCC

Start at: 2017-09-03 04:35:25
End at: 2017-09-03 04:35:55
Local clock offset: -3.452 ms
Remote clock offset: -0.018 ms


# Below is generated by plot.py at 2017-09-03 09:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 735.26 Mbit/s
95th percentile per-packet one-way delay: 3.211 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 735.26 Mbit/s
95th percentile per-packet one-way delay: 3.211 ms
Loss rate: 0.00%
```

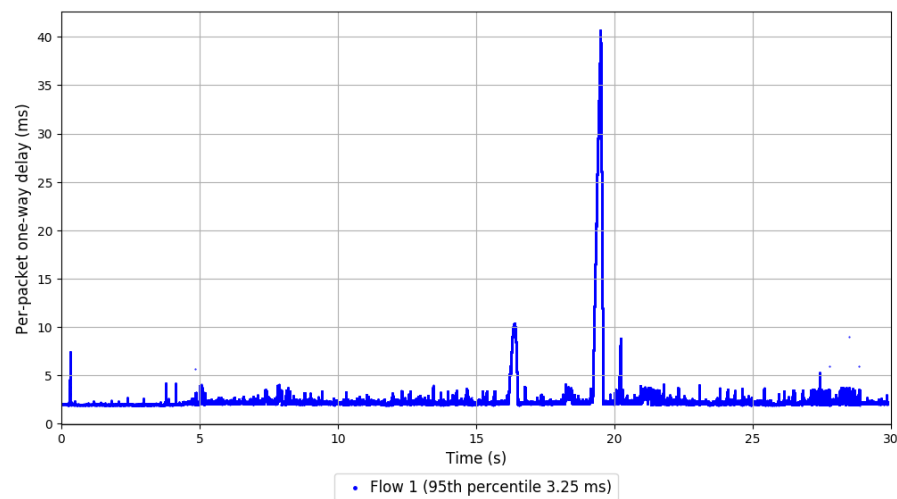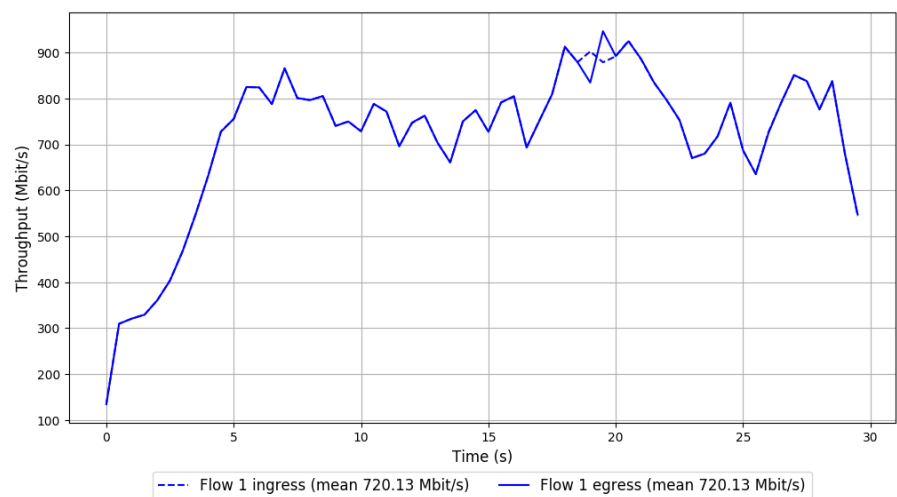Run 2: Report of PCC — Data Link

```
Run 3: Statistics of PCC

Start at: 2017-09-03 04:54:16
End at: 2017-09-03 04:54:46
Local clock offset: -3.382 ms
Remote clock offset: -0.072 ms


# Below is generated by plot.py at 2017-09-03 09:50:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 720.13 Mbit/s
95th percentile per-packet one-way delay: 3.252 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 720.13 Mbit/s
95th percentile per-packet one-way delay: 3.252 ms
Loss rate: 0.00%
```

Run 3: Report of PCC — Data Link

Flow 1 ingress (mean 720.13 Mbit/s)   Flow 1 egress (mean 720.13 Mbit/s)

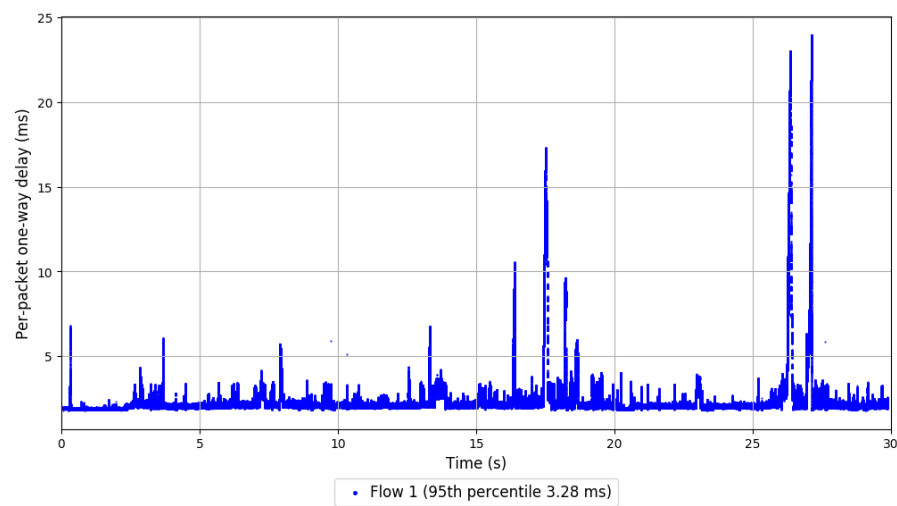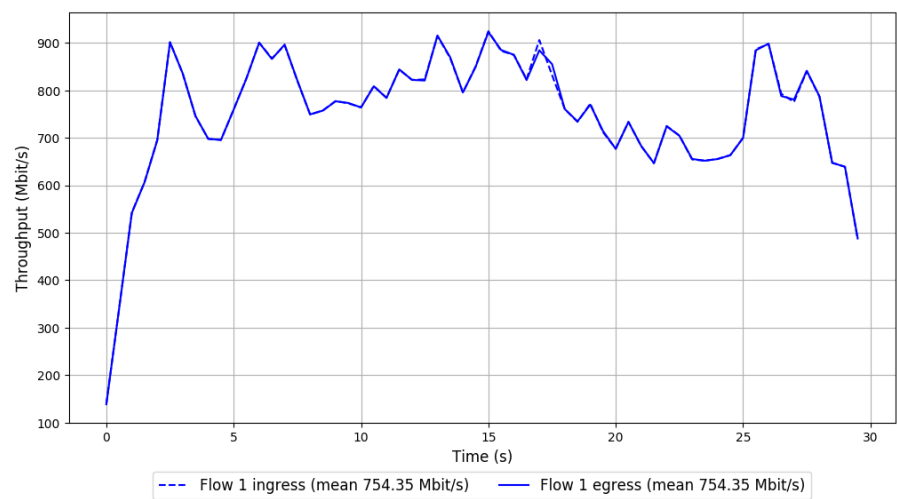• Flow 1 (95th percentile 3.25 ms)

```
Run 4: Statistics of PCC

Start at: 2017-09-03 05:13:21
End at: 2017-09-03 05:13:51
Local clock offset: -3.141 ms
Remote clock offset: -0.084 ms


# Below is generated by plot.py at 2017-09-03 09:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 754.35 Mbit/s
95th percentile per-packet one-way delay: 3.279 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 754.35 Mbit/s
95th percentile per-packet one-way delay: 3.279 ms
Loss rate: 0.00%
```

Run 4: Report of PCC — Data Link

Flow 1 ingress (mean 754.35 Mbit/s)   Flow 1 egress (mean 754.35 Mbit/s)

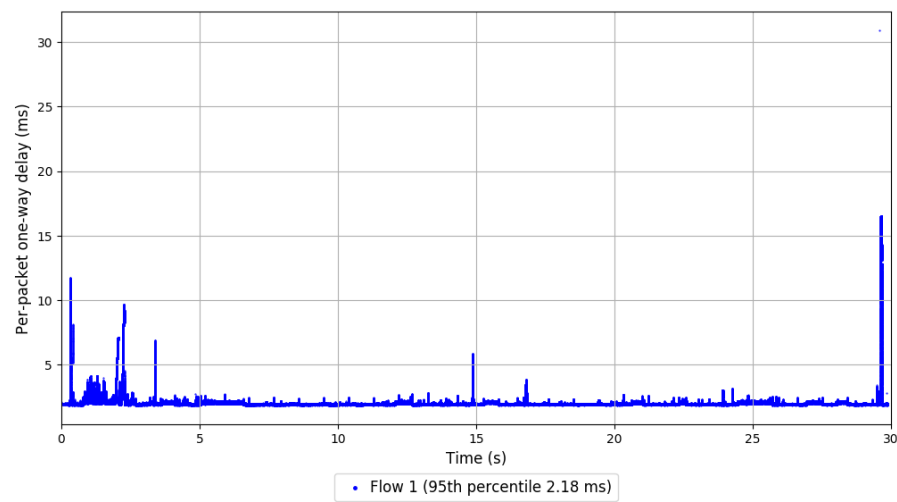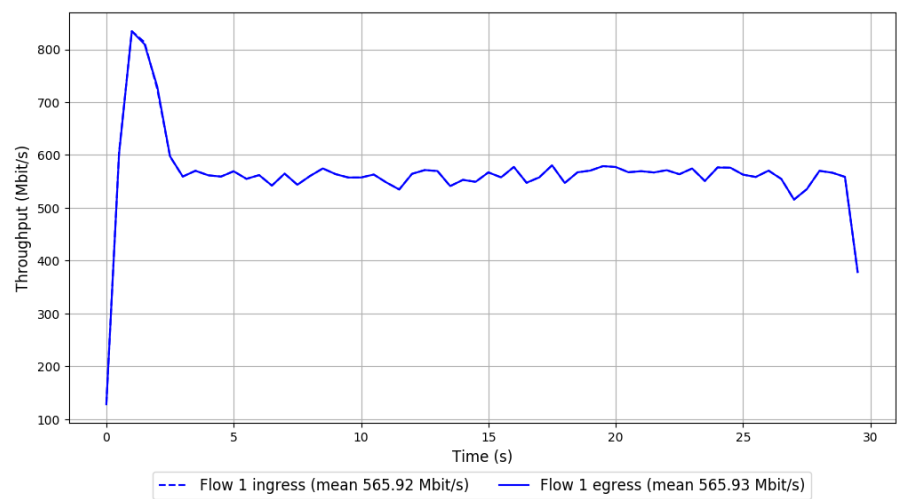Flow 1 (95th percentile 3.28 ms)

```
Run 5: Statistics of PCC

Start at: 2017-09-03 05:32:29
End at: 2017-09-03 05:32:59
Local clock offset: -3.009 ms
Remote clock offset: -0.069 ms


# Below is generated by plot.py at 2017-09-03 09:52:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 565.93 Mbit/s
95th percentile per-packet one-way delay: 2.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 565.93 Mbit/s
95th percentile per-packet one-way delay: 2.181 ms
Loss rate: 0.00%
```
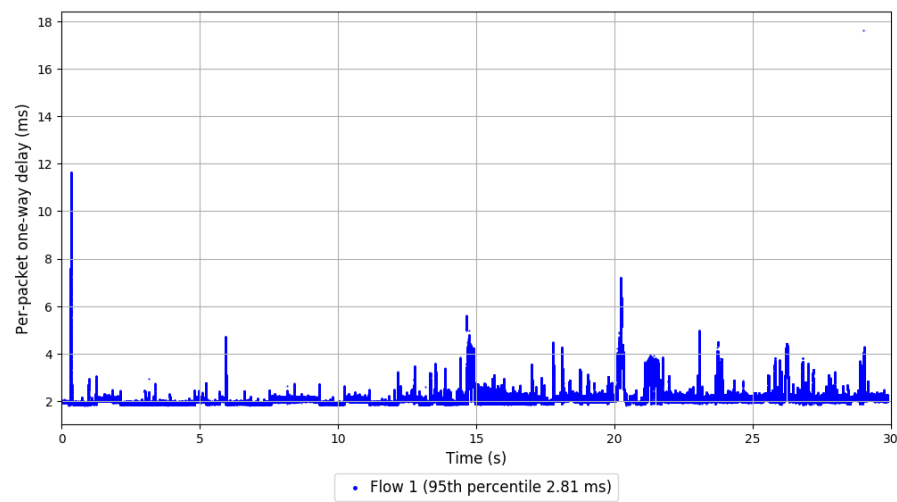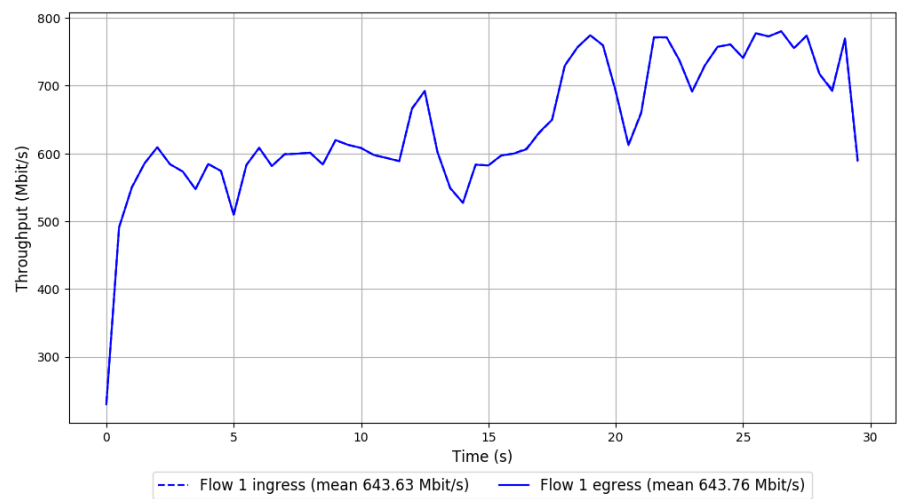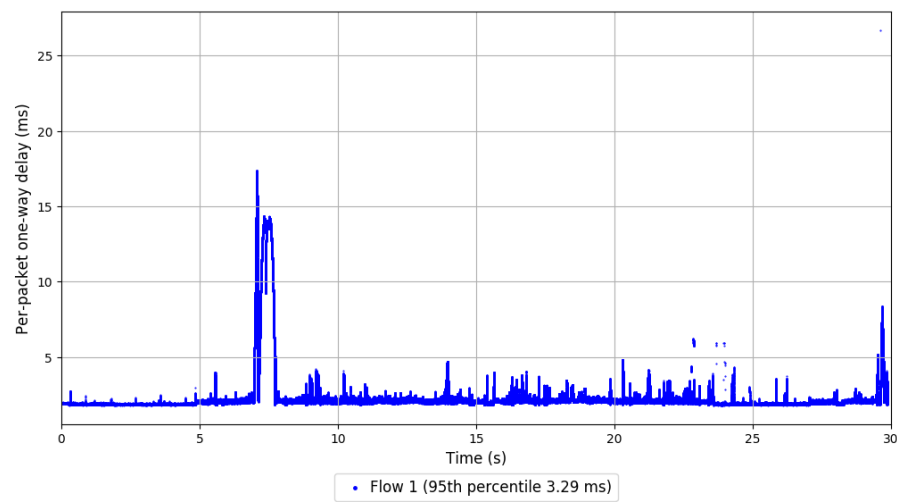
Run 5: Report of PCC — Data Link

Flow 1 ingress (mean 565.92 Mbit/s)   Flow 1 egress (mean 565.93 Mbit/s)

Flow 1 (95th percentile 2.18 ms)

```
Run 6: Statistics of PCC

Start at: 2017-09-03 05:51:46
End at: 2017-09-03 05:52:16
Local clock offset: -2.933 ms
Remote clock offset: -0.14 ms


# Below is generated by plot.py at 2017-09-03 09:53:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 643.76 Mbit/s
95th percentile per-packet one-way delay: 2.809 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 643.76 Mbit/s
95th percentile per-packet one-way delay: 2.809 ms
Loss rate: 0.00%
```

Run 6: Report of PCC — Data Link

Flow 1 ingress (mean 643.63 Mbit/s)   Flow 1 egress (mean 643.76 Mbit/s)

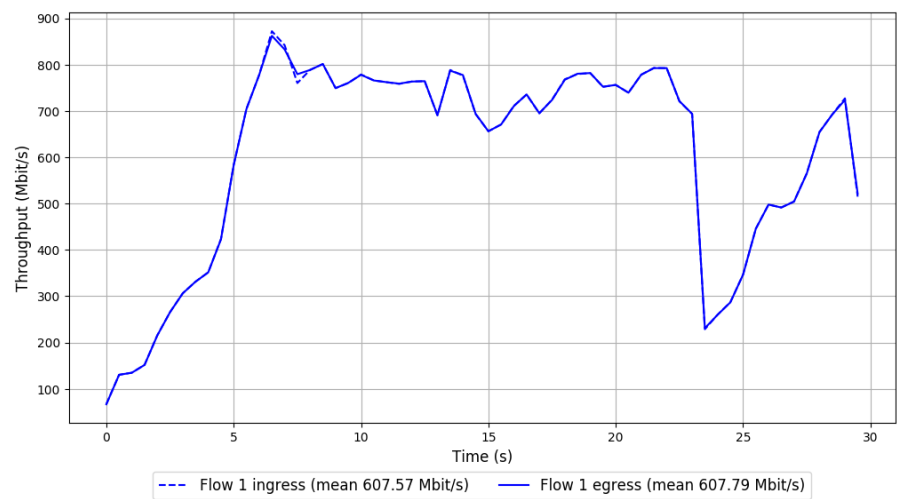Flow 1 (95th percentile 2.81 ms)

```
Run 7: Statistics of PCC

Start at: 2017-09-03 06:11:04
End at: 2017-09-03 06:11:34
Local clock offset: -2.683 ms
Remote clock offset: -0.024 ms


# Below is generated by plot.py at 2017-09-03 09:53:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 607.79 Mbit/s
95th percentile per-packet one-way delay: 3.293 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 607.79 Mbit/s
95th percentile per-packet one-way delay: 3.293 ms
Loss rate: 0.00%
```

Run 7: Report of PCC — Data Link

```
Run 8: Statistics of PCC

Start at: 2017-09-03 06:30:21
End at: 2017-09-03 06:30:51
Local clock offset: -2.59 ms
Remote clock offset: 0.044 ms


# Below is generated by plot.py at 2017-09-03 09:54:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 640.02 Mbit/s
95th percentile per-packet one-way delay: 11.618 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 640.02 Mbit/s
95th percentile per-packet one-way delay: 11.618 ms
Loss rate: 0.00%
```
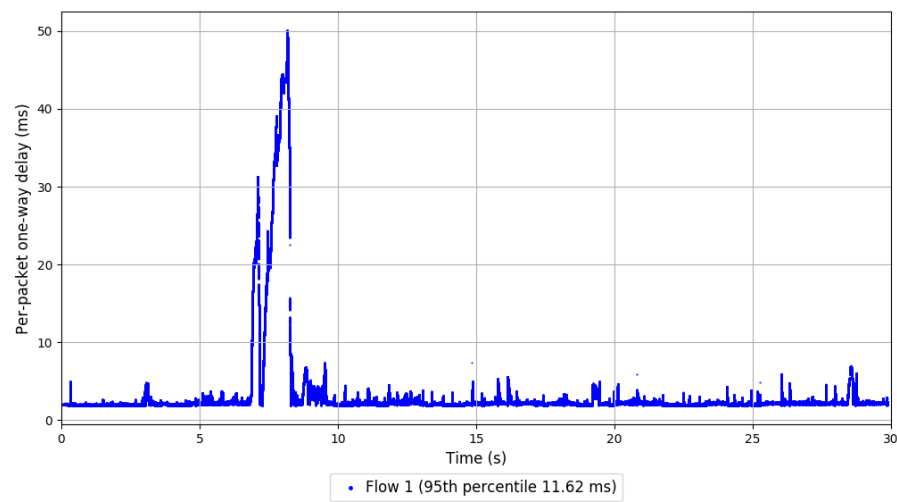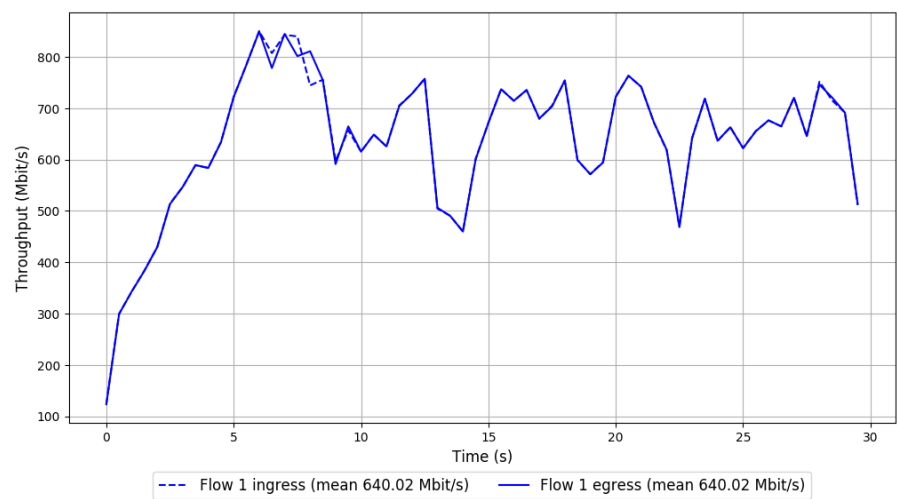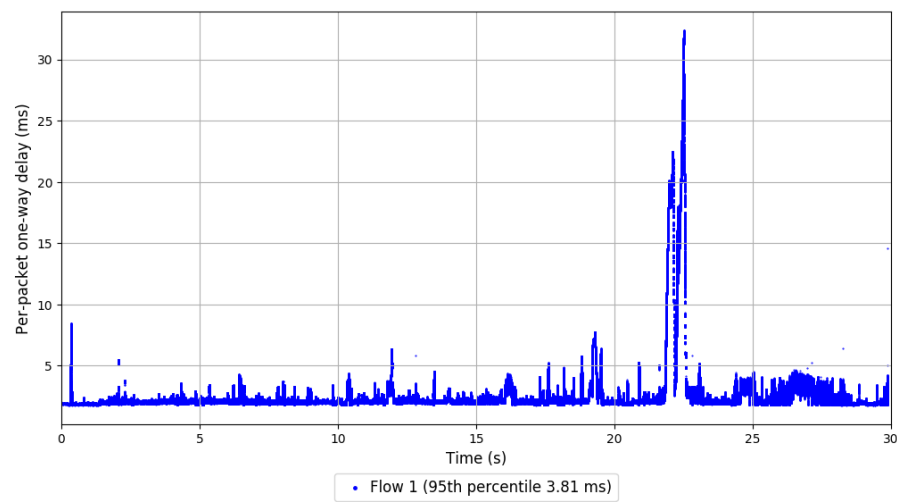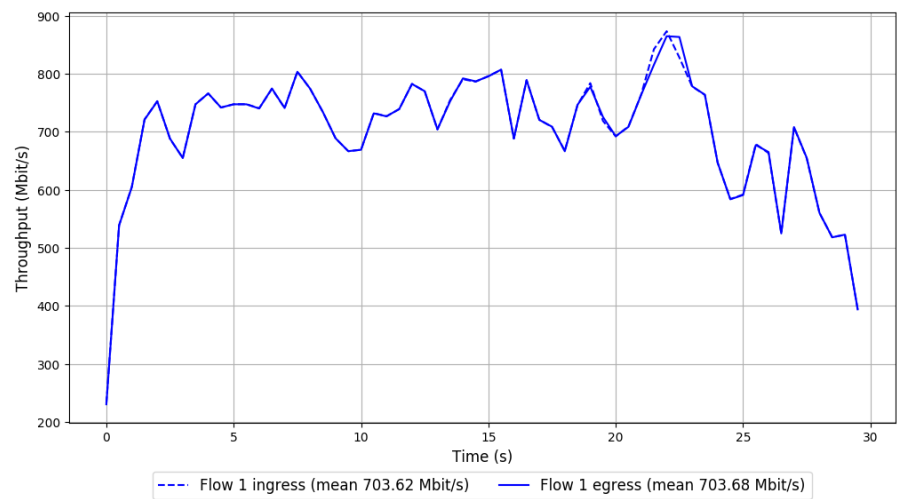
Run 8: Report of PCC — Data Link

Flow 1 ingress (mean 640.02 Mbit/s)   Flow 1 egress (mean 640.02 Mbit/s)

Flow 1 (95th percentile 11.62 ms)

```
Run 9: Statistics of PCC

Start at: 2017-09-03 06:49:35
End at: 2017-09-03 06:50:05
Local clock offset: -2.654 ms
Remote clock offset: 0.018 ms


# Below is generated by plot.py at 2017-09-03 09:55:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 703.68 Mbit/s
95th percentile per-packet one-way delay: 3.805 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 703.68 Mbit/s
95th percentile per-packet one-way delay: 3.805 ms
Loss rate: 0.00%
```
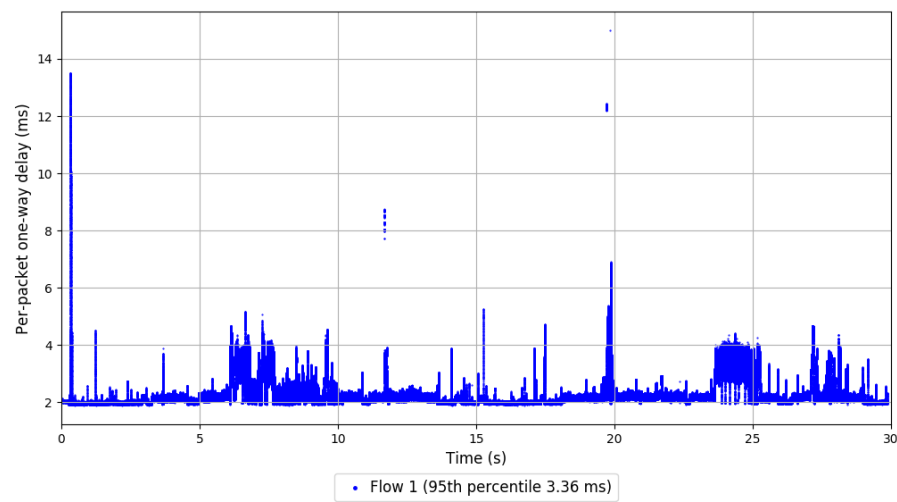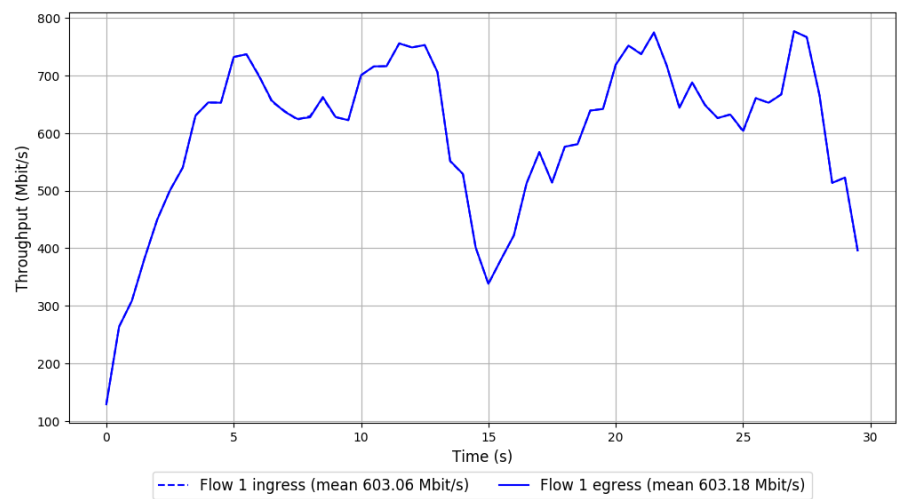
Run 9: Report of PCC — Data Link

Flow 1 ingress (mean 703.62 Mbit/s)   Flow 1 egress (mean 703.68 Mbit/s)

Flow 1 (95th percentile 3.81 ms)

161

```
Run 10: Statistics of PCC

Start at: 2017-09-03 07:08:53
End at: 2017-09-03 07:09:23
Local clock offset: -2.597 ms
Remote clock offset: 0.019 ms


# Below is generated by plot.py at 2017-09-03 09:56:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 603.18 Mbit/s
95th percentile per-packet one-way delay: 3.356 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 603.18 Mbit/s
95th percentile per-packet one-way delay: 3.356 ms
Loss rate: 0.00%
```

Run 10: Report of PCC — Data Link
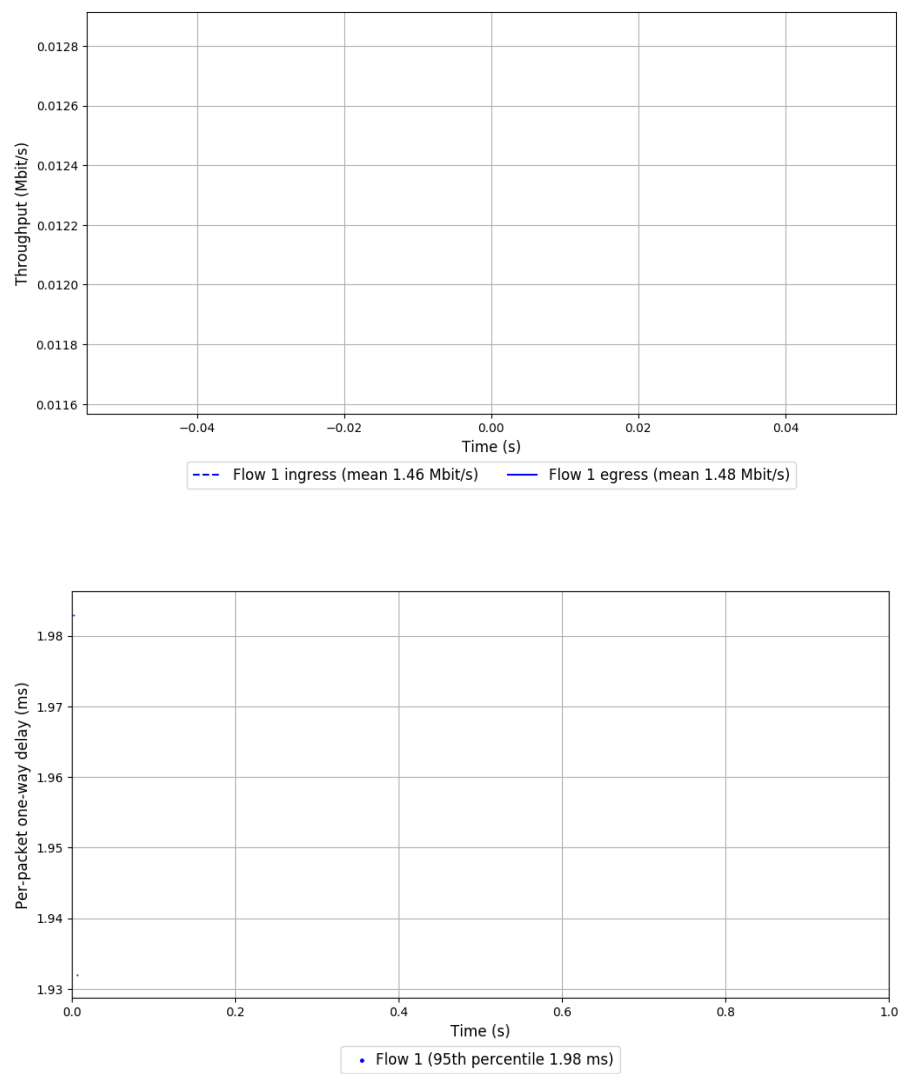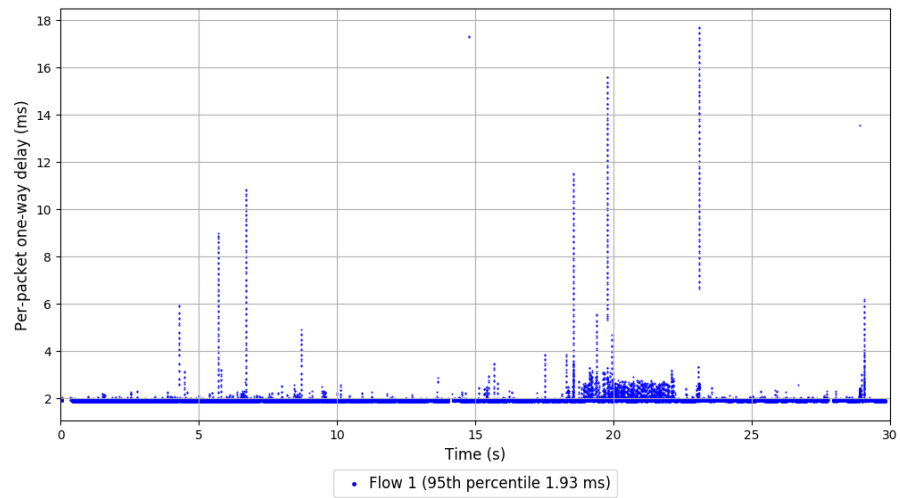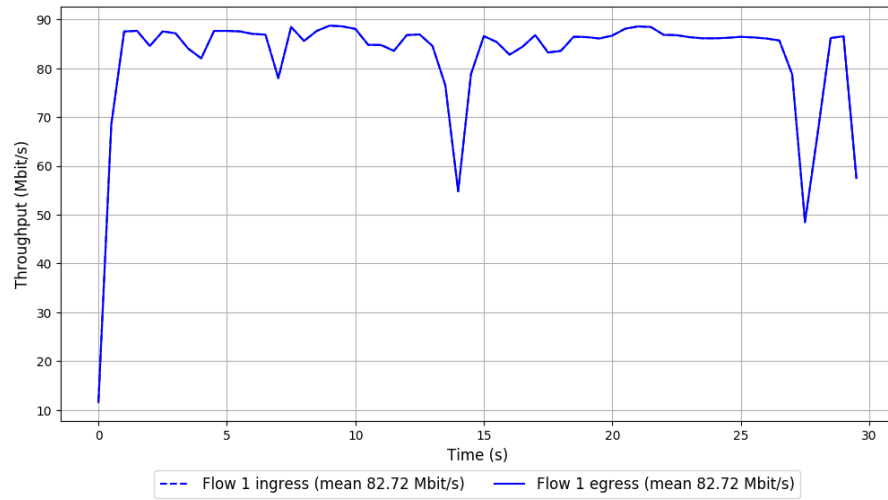
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-03 04:13:46
End at: 2017-09-03 04:14:16
Local clock offset: -3.561 ms
Remote clock offset: 0.171 ms

Run 1: Report of QUIC Cubic — Data Link

--- Flow 1 ingress (mean 1.46 Mbit/s)   —— Flow 1 egress (mean 1.02 Mbit/s)

• Flow 1 (95th percentile 3.72 ms)

Run 2: Statistics of QUIC Cubic

Start at: 2017-09-03 04:32:57
End at: 2017-09-03 04:33:27
Local clock offset: -3.497 ms
Remote clock offset: 0.046 ms

Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 1.46 Mbit/s)   Flow 1 egress (mean 1.48 Mbit/s)

Flow 1 (95th percentile 1.98 ms)

```
Run 3: Statistics of QUIC Cubic

Start at: 2017-09-03 04:51:41
End at: 2017-09-03 04:52:11
Local clock offset: -3.336 ms
Remote clock offset: -0.03 ms


# Below is generated by plot.py at 2017-09-03 09:56:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.72 Mbit/s
95th percentile per-packet one-way delay: 1.934 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 82.72 Mbit/s
95th percentile per-packet one-way delay: 1.934 ms
Loss rate: 0.00%
```
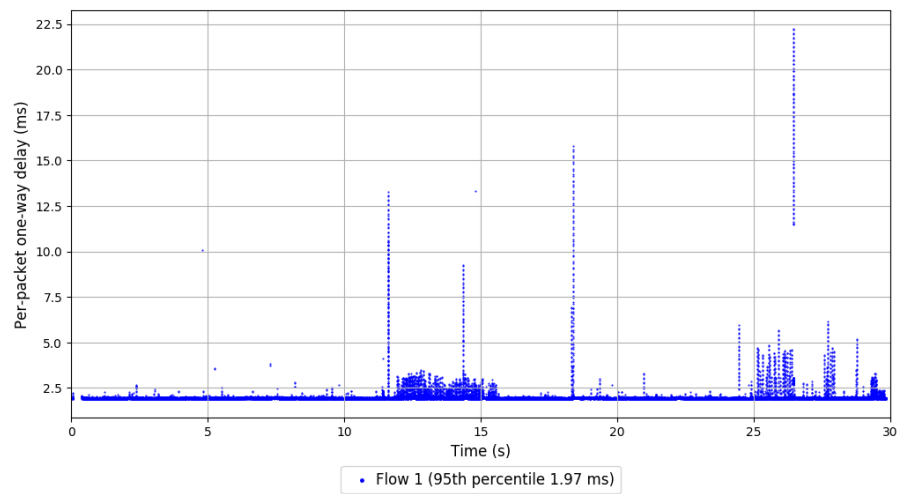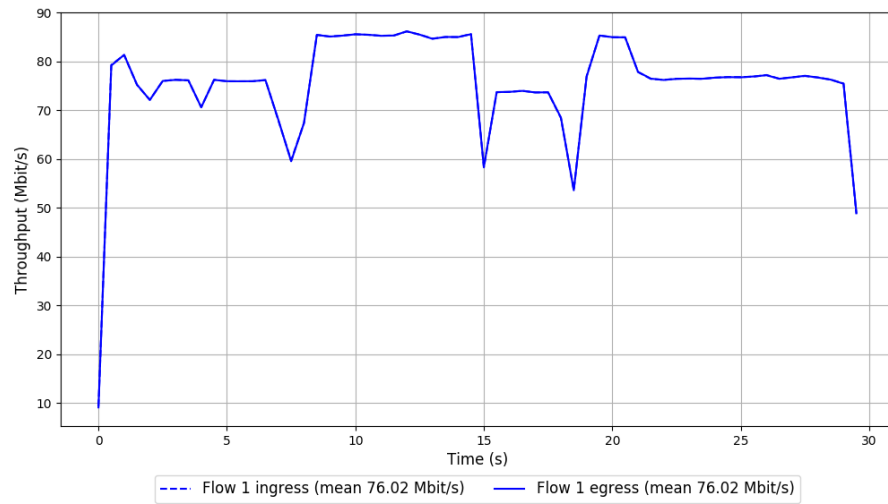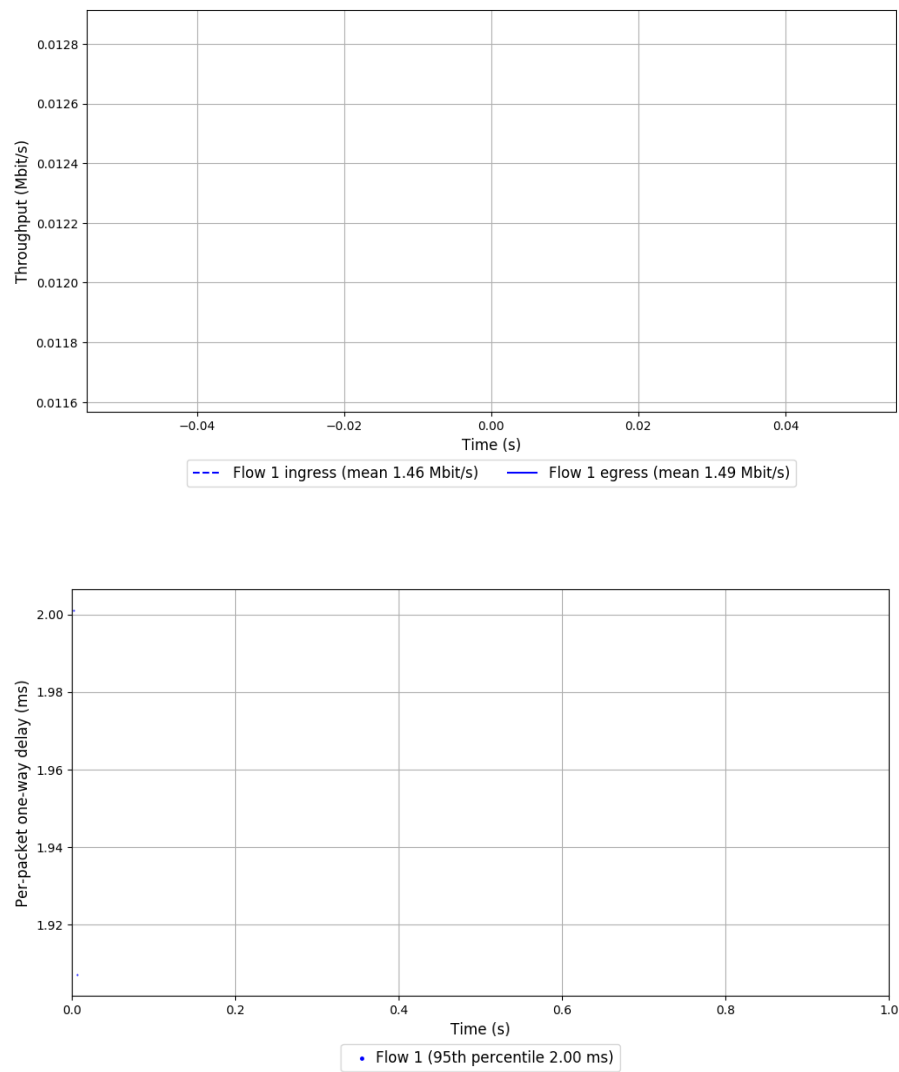
Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 82.72 Mbit/s) --- Flow 1 egress (mean 82.72 Mbit/s)

Flow 1 (95th percentile 1.93 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2017-09-03 05:10:48
End at: 2017-09-03 05:11:18
Local clock offset: -3.221 ms
Remote clock offset: -0.08 ms


# Below is generated by plot.py at 2017-09-03 09:56:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.02 Mbit/s
95th percentile per-packet one-way delay: 1.970 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.02 Mbit/s
95th percentile per-packet one-way delay: 1.970 ms
Loss rate: 0.00%
```
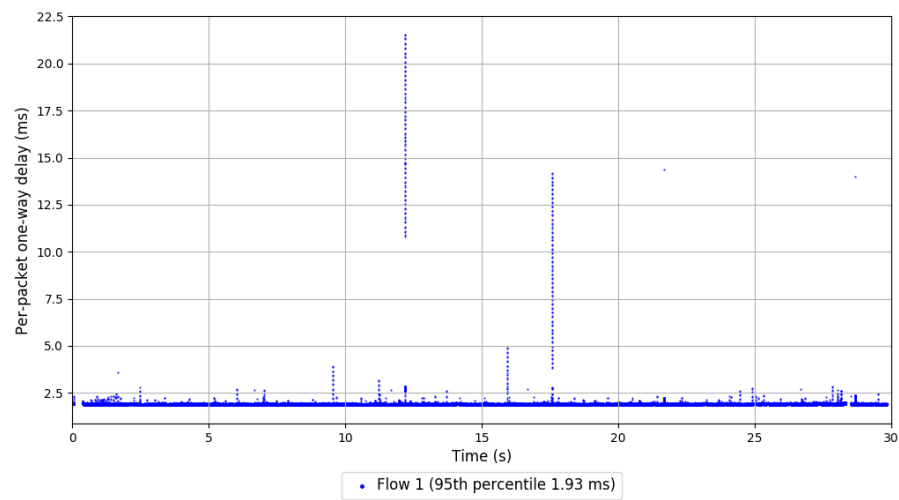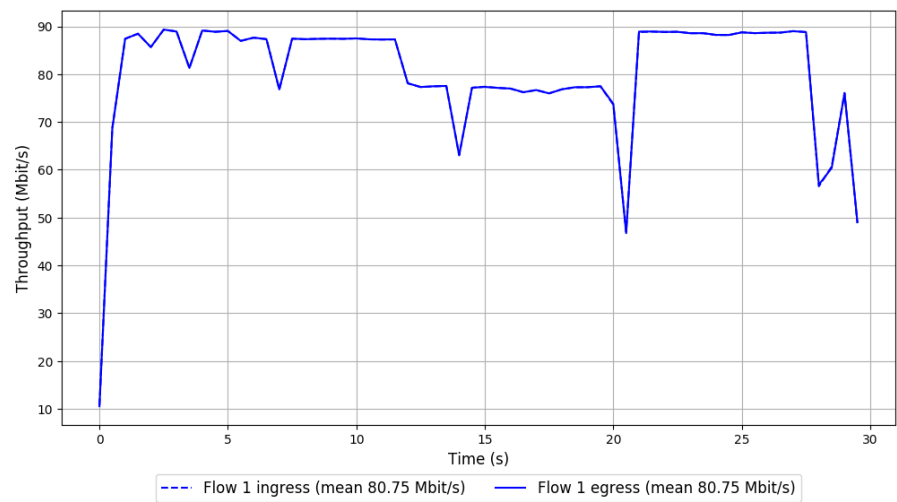
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 76.02 Mbit/s)   Flow 1 egress (mean 76.02 Mbit/s)

Flow 1 (95th percentile 1.97 ms)
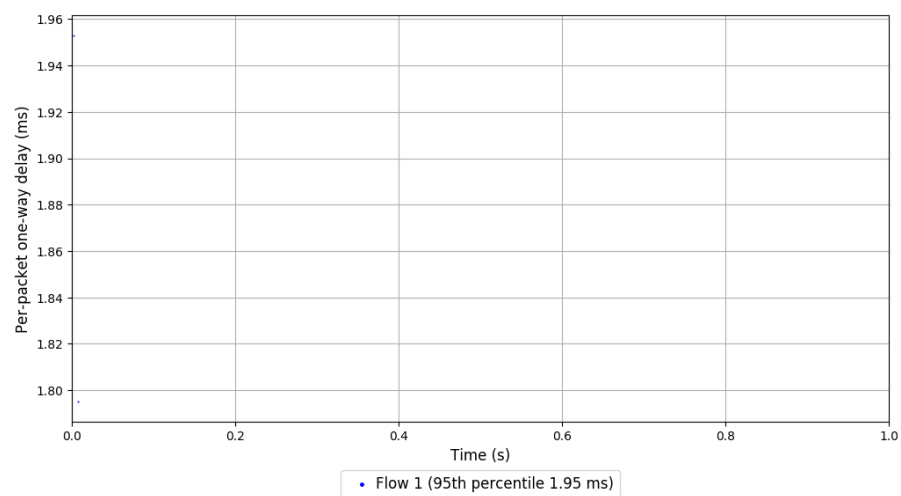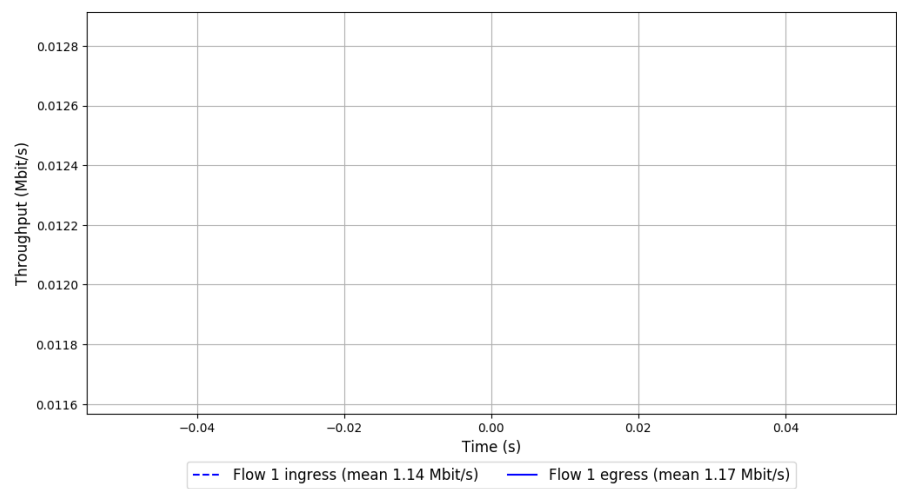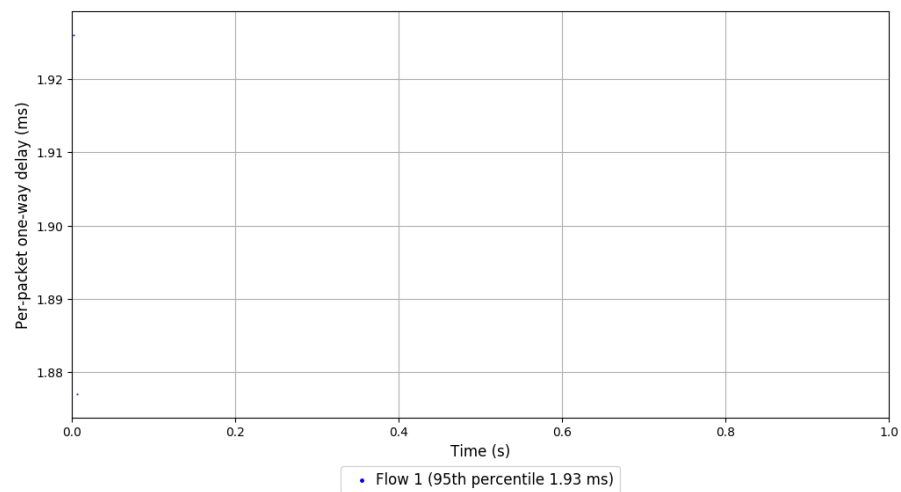
171

Run 5: Statistics of QUIC Cubic

Start at: 2017-09-03 05:29:58
End at: 2017-09-03 05:30:28
Local clock offset: -3.045 ms
Remote clock offset: -0.052 ms

Run 5: Report of QUIC Cubic — Data Link

--- Flow 1 ingress (mean 1.46 Mbit/s)   —— Flow 1 egress (mean 1.49 Mbit/s)

• Flow 1 (95th percentile 2.00 ms)

```
Run 6: Statistics of QUIC Cubic

Start at: 2017-09-03 05:49:12
End at: 2017-09-03 05:49:42
Local clock offset: -2.978 ms
Remote clock offset: -0.143 ms


# Below is generated by plot.py at 2017-09-03 09:56:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.75 Mbit/s
95th percentile per-packet one-way delay: 1.929 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.75 Mbit/s
95th percentile per-packet one-way delay: 1.929 ms
Loss rate: 0.00%
```

Run 6: Report of QUIC Cubic — Data Link
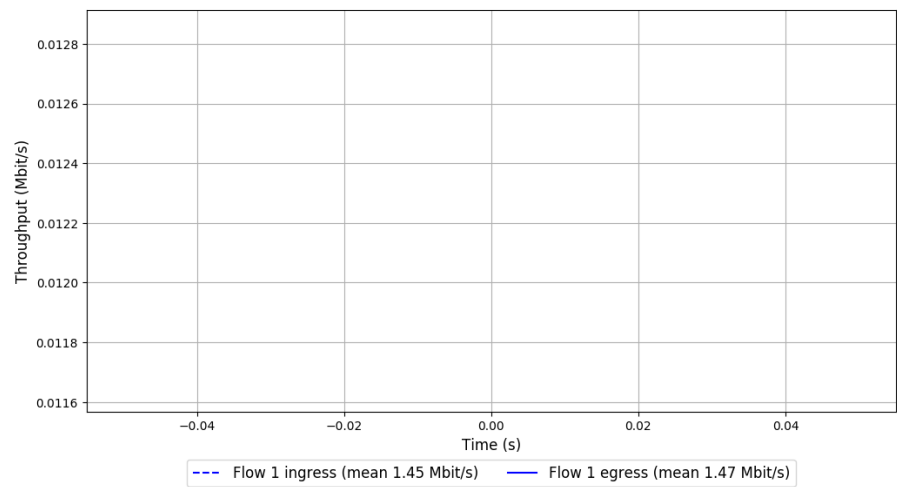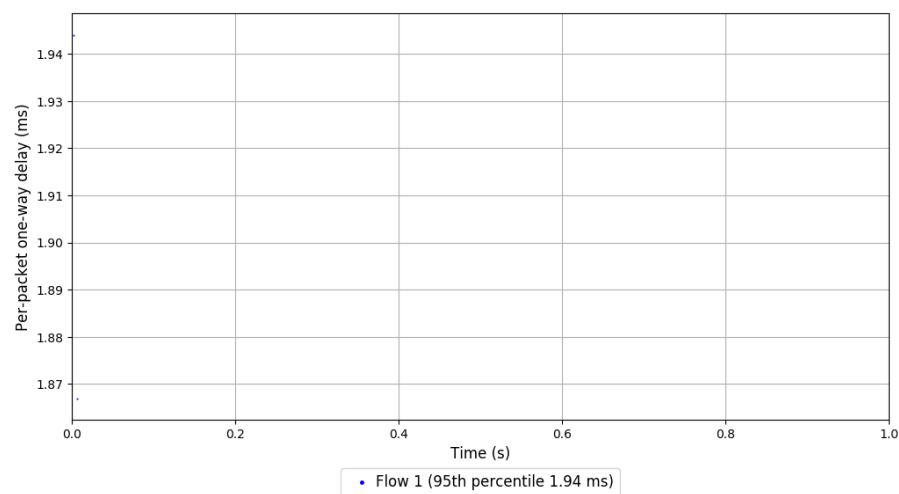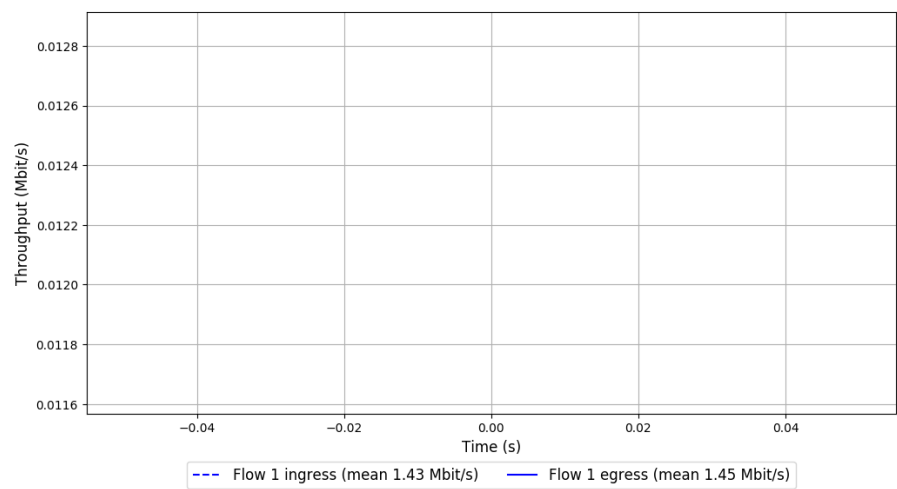
Run 7: Statistics of QUIC Cubic

Start at: 2017-09-03 06:08:35
End at: 2017-09-03 06:09:05
Local clock offset: -2.727 ms
Remote clock offset: -0.095 ms

Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 1.14 Mbit/s)   Flow 1 egress (mean 1.17 Mbit/s)

Flow 1 (95th percentile 1.95 ms)
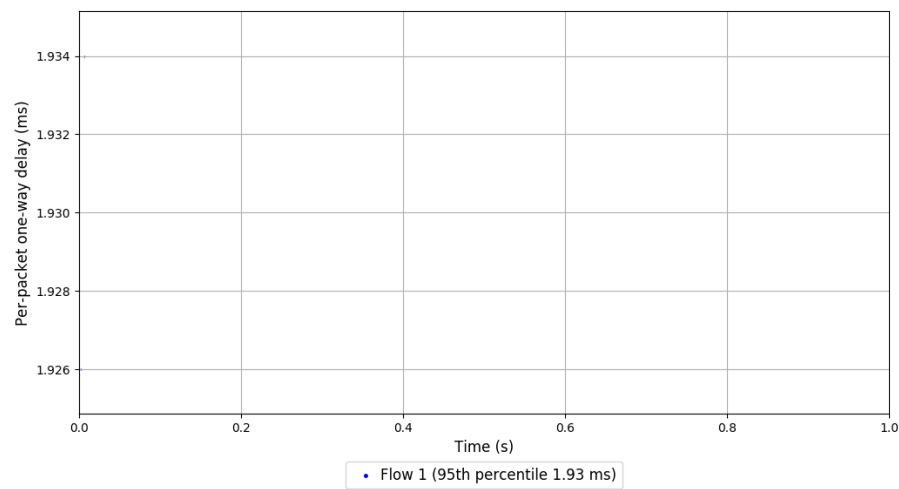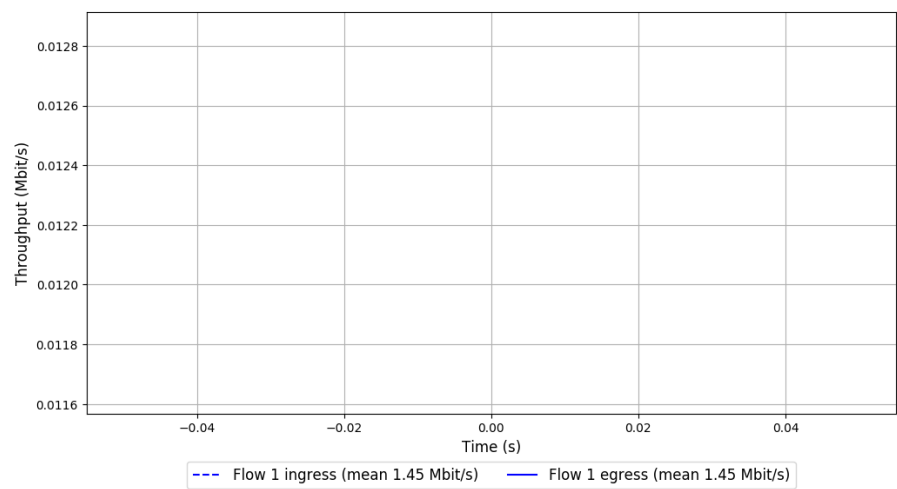
```
Run 8: Statistics of QUIC Cubic

Start at: 2017-09-03 06:27:52
End at: 2017-09-03 06:28:22
Local clock offset: -2.6 ms
Remote clock offset: 0.037 ms
```

Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 1.45 Mbit/s)   Flow 1 egress (mean 1.47 Mbit/s)

Flow 1 (95th percentile 1.93 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2017-09-03 06:47:05
End at: 2017-09-03 06:47:35
Local clock offset: -2.663 ms
Remote clock offset: 0.08 ms
```
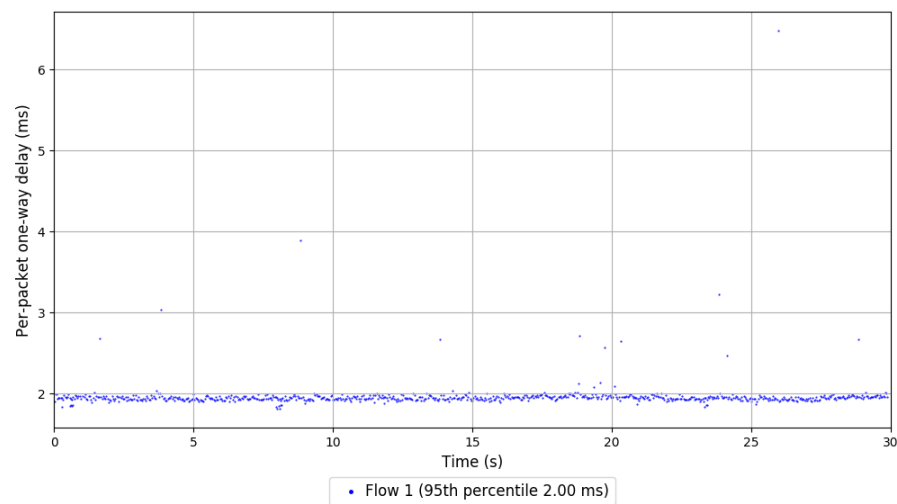
Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 1.43 Mbit/s) — — — Flow 1 egress (mean 1.45 Mbit/s)

Flow 1 (95th percentile 1.94 ms)

Run 10: Statistics of QUIC Cubic

Start at: 2017-09-03 07:06:21
End at: 2017-09-03 07:06:51
Local clock offset: -2.712 ms
Remote clock offset: 0.015 ms

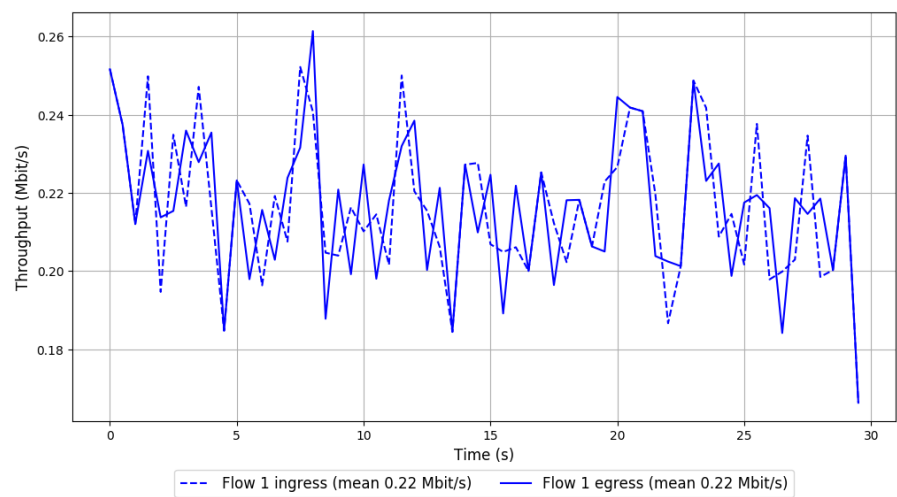## Run 10: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 1.45 Mbit/s) — Flow 1 egress (mean 1.45 Mbit/s)

• Flow 1 (95th percentile 1.93 ms)

```
Run 1: Statistics of SCReAM

Start at: 2017-09-03 04:12:42
End at: 2017-09-03 04:13:12
Local clock offset: -3.542 ms
Remote clock offset: 0.191 ms


# Below is generated by plot.py at 2017-09-03 09:56:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.995 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.995 ms
Loss rate: 0.00%
```
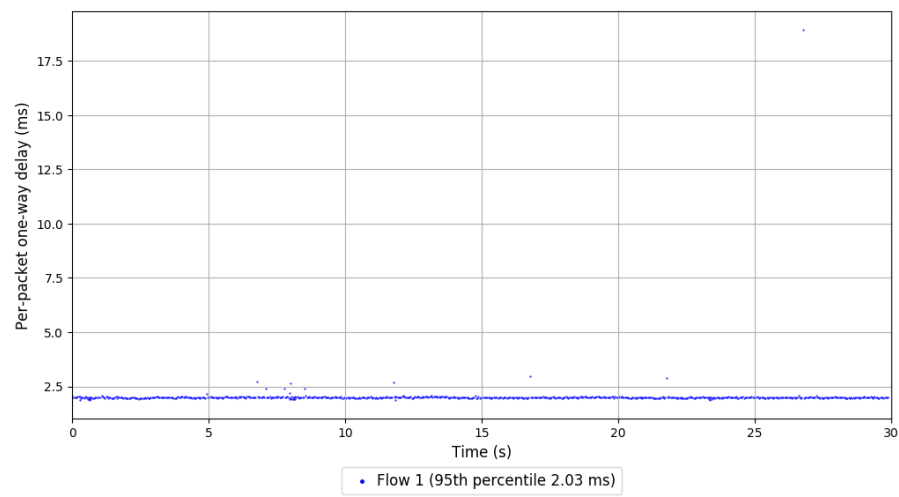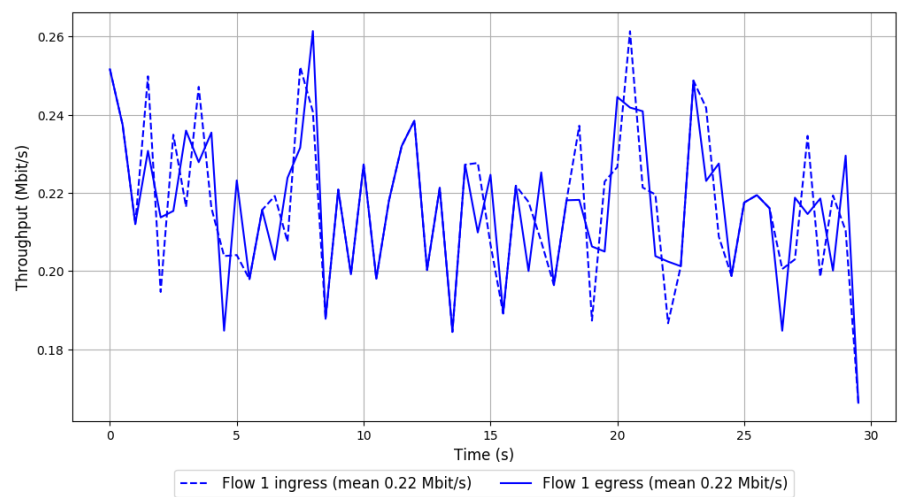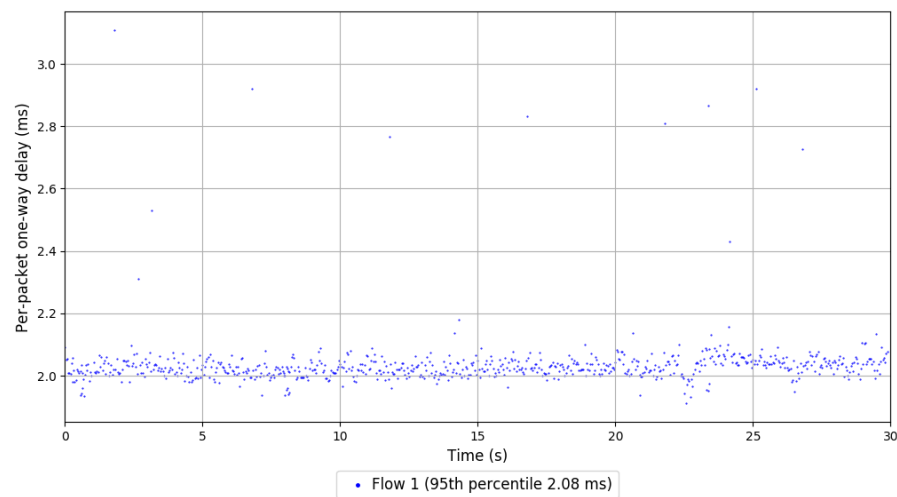
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2017-09-03 04:31:53
End at: 2017-09-03 04:32:23
Local clock offset: -3.462 ms
Remote clock offset: 0.044 ms


# Below is generated by plot.py at 2017-09-03 09:56:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.034 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.034 ms
Loss rate: 0.00%
```

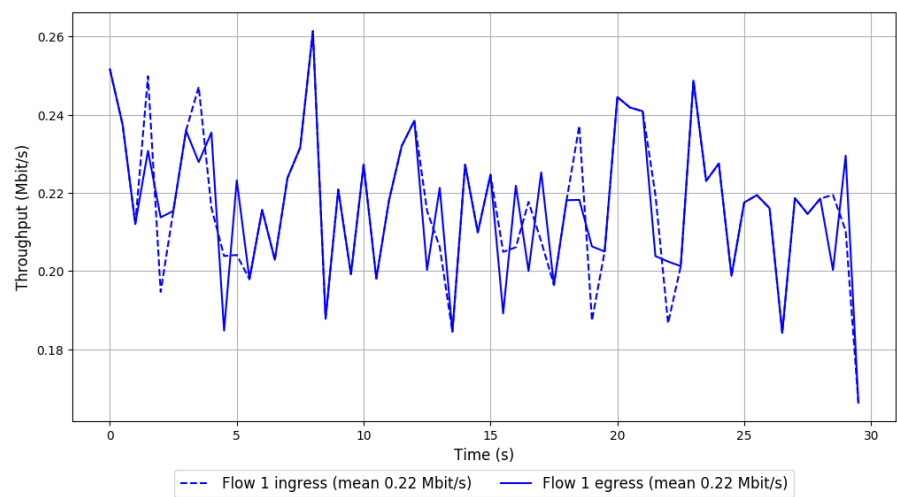Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2017-09-03 04:50:37
End at: 2017-09-03 04:51:07
Local clock offset: -3.329 ms
Remote clock offset: -0.008 ms


# Below is generated by plot.py at 2017-09-03 09:56:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.080 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.080 ms
Loss rate: 0.00%
```

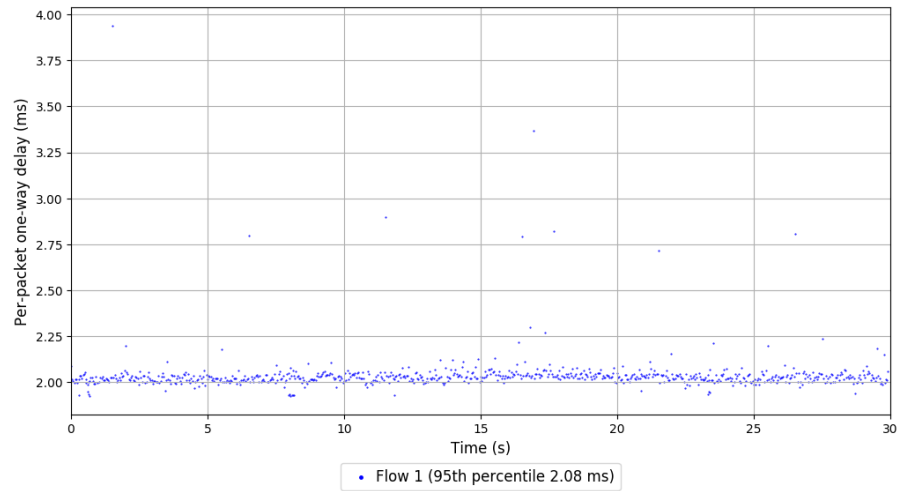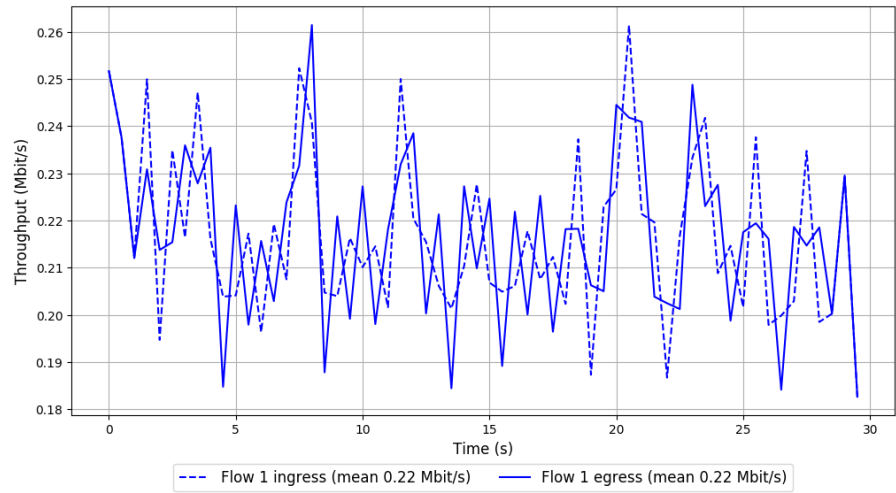# Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2017-09-03 05:09:44
End at: 2017-09-03 05:10:14
Local clock offset: -3.195 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2017-09-03 09:56:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.083 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.083 ms
Loss rate: 0.00%
```

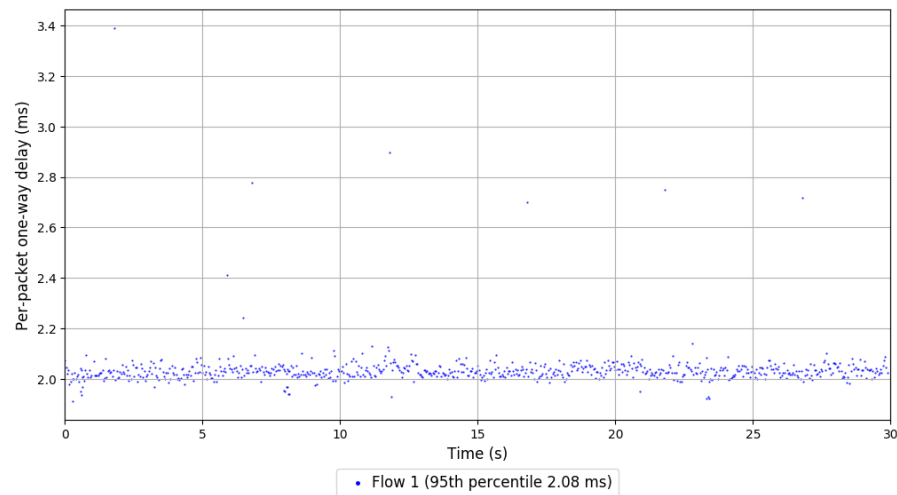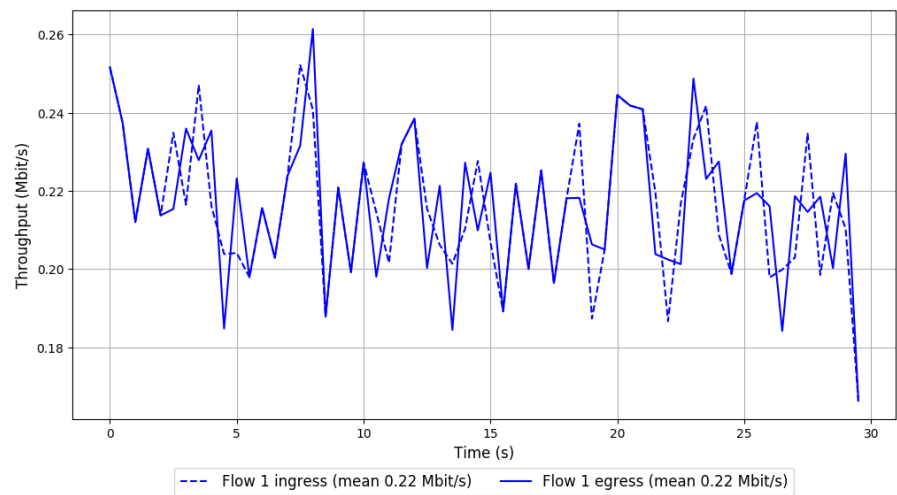Run 4: Report of SCReAM — Data Link

191

```
Run 5: Statistics of SCReAM

Start at: 2017-09-03 05:28:55
End at: 2017-09-03 05:29:25
Local clock offset: -3.056 ms
Remote clock offset: -0.065 ms


# Below is generated by plot.py at 2017-09-03 09:56:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.080 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.080 ms
Loss rate: 0.00%
```

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 2.08 ms)

```
Run 6: Statistics of SCReAM

Start at: 2017-09-03 05:48:09
End at: 2017-09-03 05:48:39
Local clock offset: -3.066 ms
Remote clock offset: -0.225 ms


# Below is generated by plot.py at 2017-09-03 09:56:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.065 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.065 ms
Loss rate: 0.00%
```
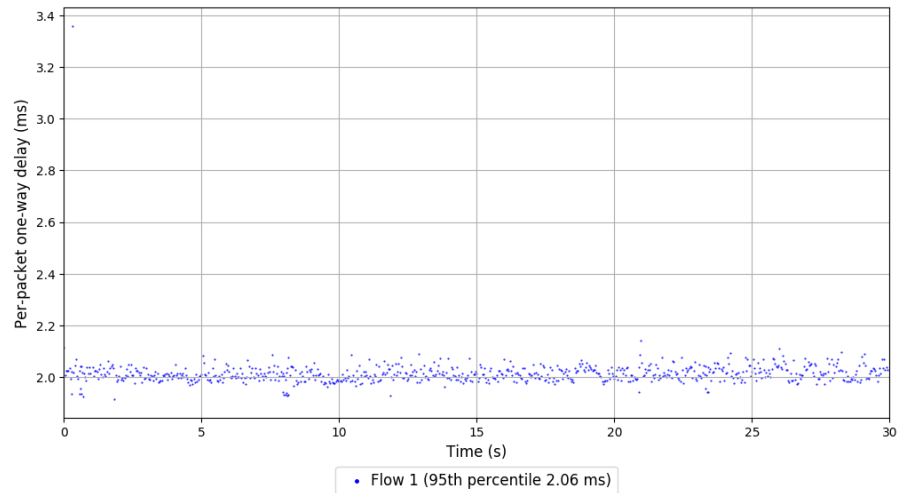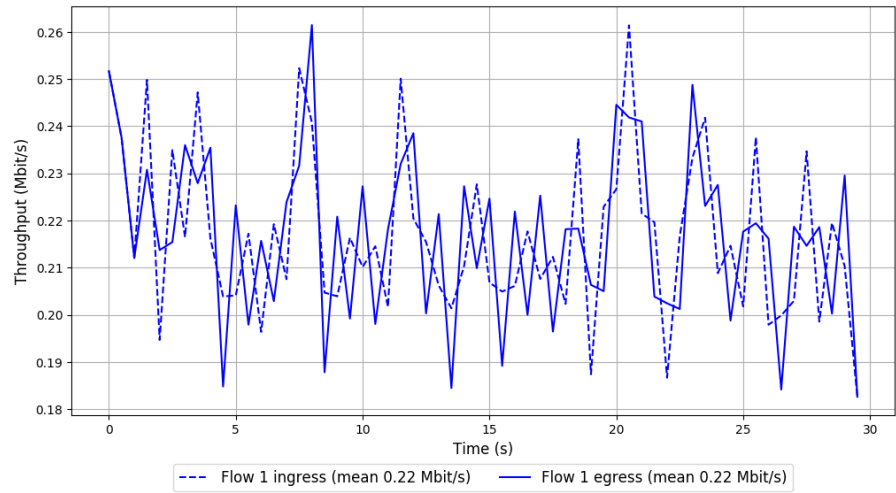
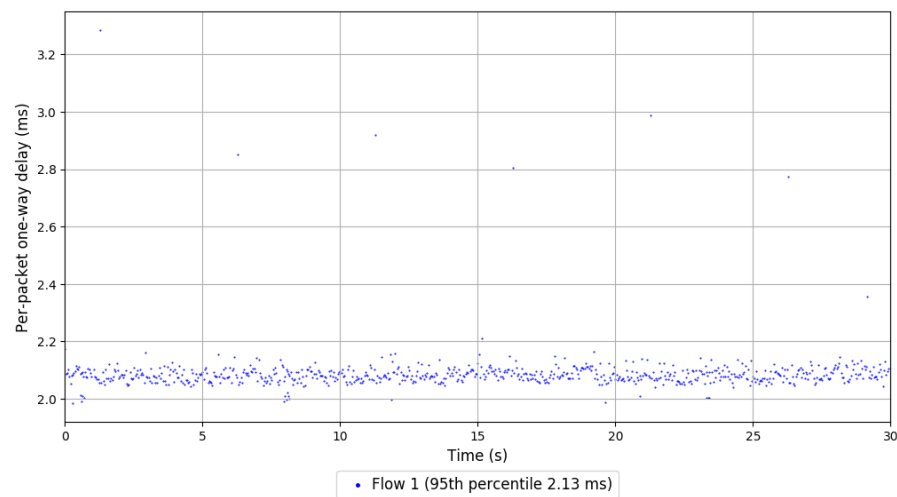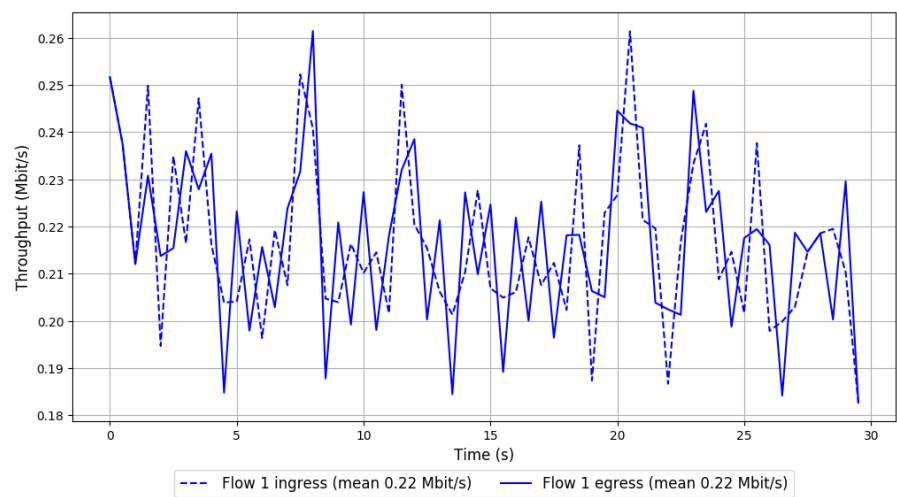# Run 6: Report of SCReAM — Data Link

```
Run 7: Statistics of SCReAM

Start at: 2017-09-03 06:07:31
End at: 2017-09-03 06:08:01
Local clock offset: -2.815 ms
Remote clock offset: -0.056 ms


# Below is generated by plot.py at 2017-09-03 09:56:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.128 ms
Loss rate: 0.00%
```
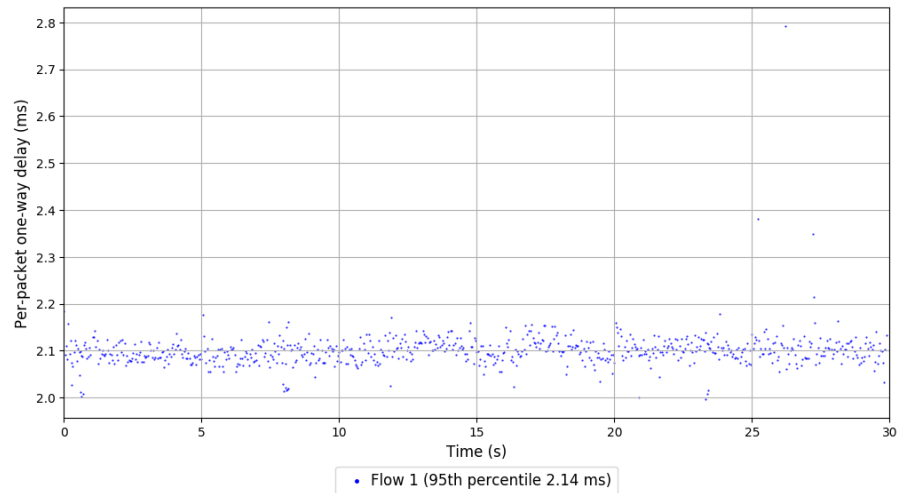
Run 7: Report of SCReAM — Data Link

```
Run 8: Statistics of SCReAM

Start at: 2017-09-03 06:26:48
End at: 2017-09-03 06:27:18
Local clock offset: -2.712 ms
Remote clock offset: 0.029 ms


# Below is generated by plot.py at 2017-09-03 09:56:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.141 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.141 ms
Loss rate: 0.00%
```
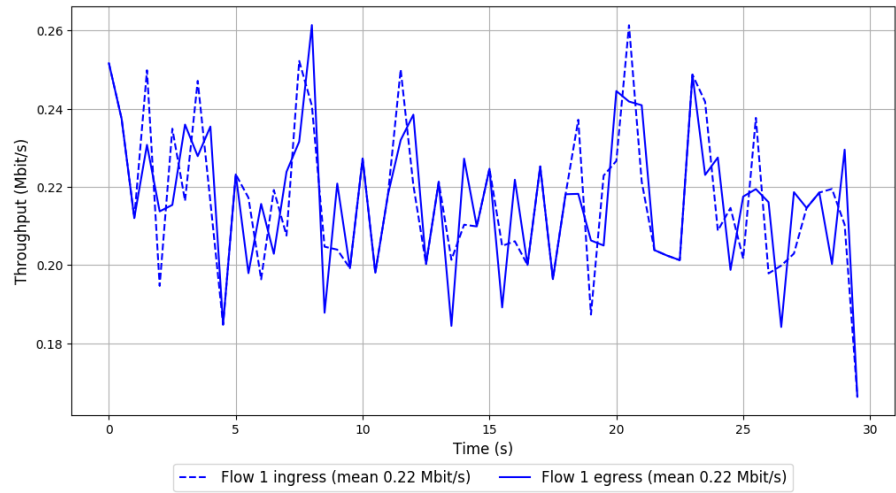
Run 8: Report of SCReAM — Data Link

199

```
Run 9: Statistics of SCReAM

Start at: 2017-09-03 06:46:01
End at: 2017-09-03 06:46:31
Local clock offset: -2.703 ms
Remote clock offset: 0.088 ms


# Below is generated by plot.py at 2017-09-03 09:56:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.082 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.082 ms
Loss rate: 0.00%
```
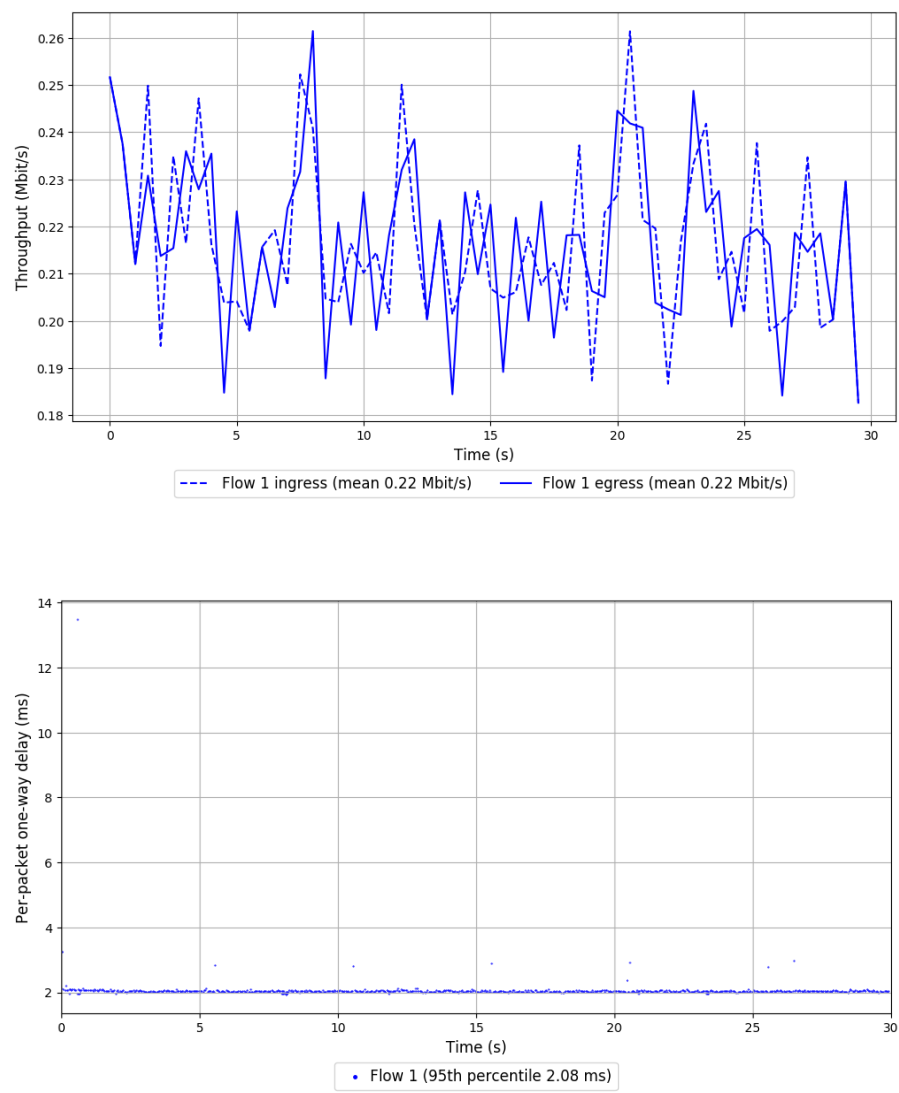
Run 9: Report of SCReAM — Data Link

```
Run 10: Statistics of SCReAM

Start at: 2017-09-03 07:05:17
End at: 2017-09-03 07:05:48
Local clock offset: -2.679 ms
Remote clock offset: 0.024 ms


# Below is generated by plot.py at 2017-09-03 09:56:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.067 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.067 ms
Loss rate: 0.00%
```
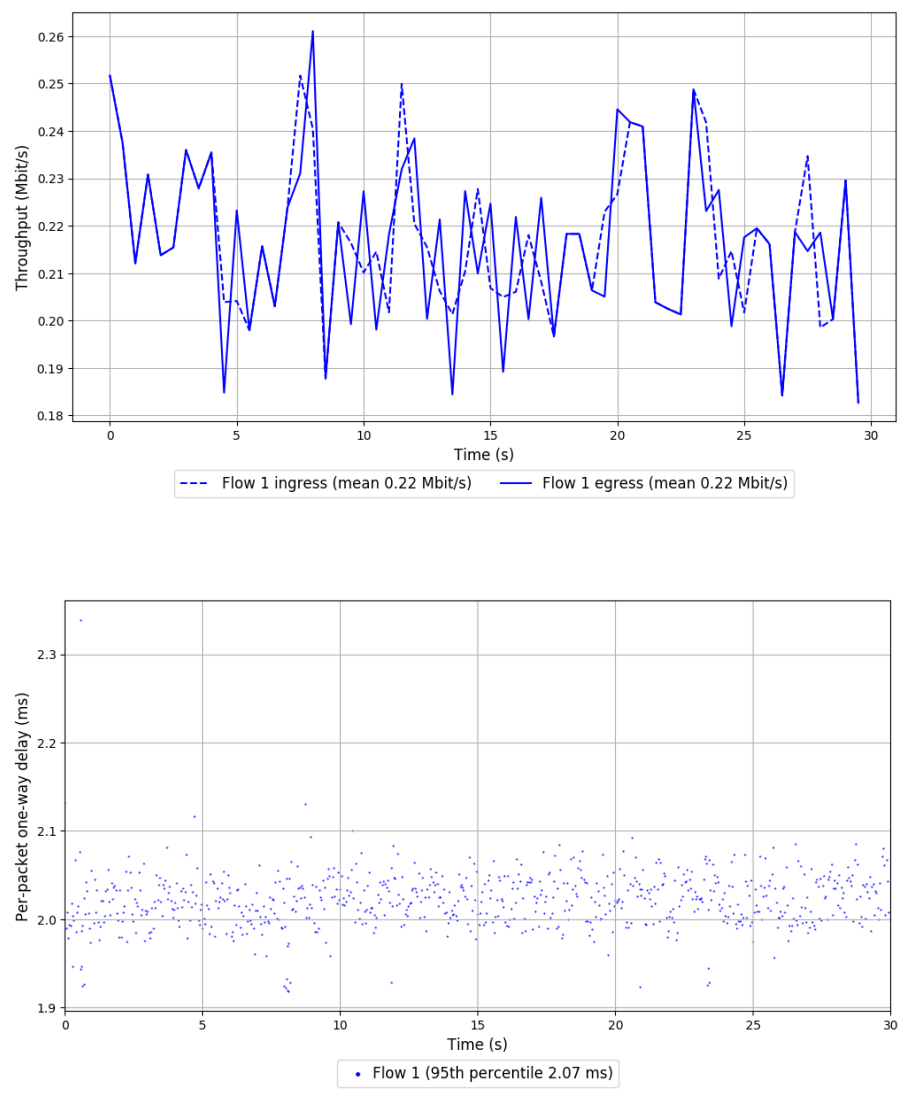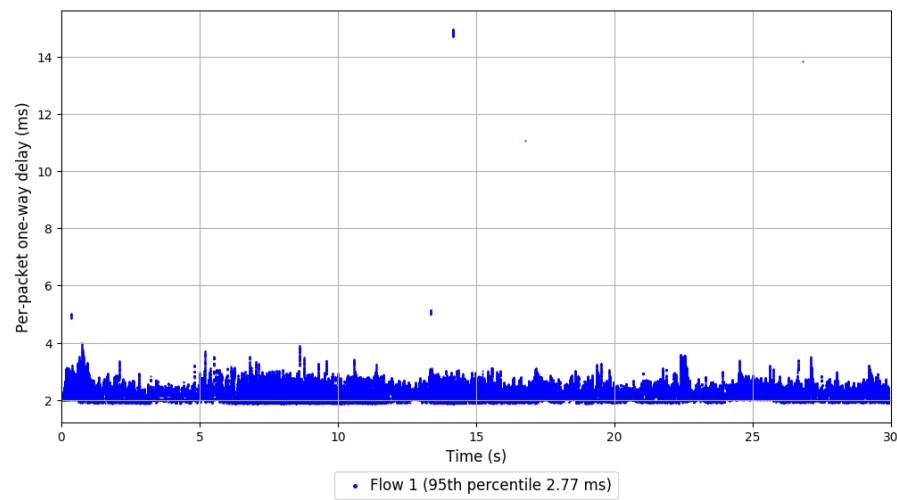
Run 10: Report of SCReAM — Data Link

```
Run 1: Statistics of Sprout

Start at: 2017-09-03 04:04:54
End at: 2017-09-03 04:05:24
Local clock offset: -3.693 ms
Remote clock offset: 0.216 ms


# Below is generated by plot.py at 2017-09-03 09:56:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.19 Mbit/s
95th percentile per-packet one-way delay: 2.767 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.19 Mbit/s
95th percentile per-packet one-way delay: 2.767 ms
Loss rate: 0.00%
```
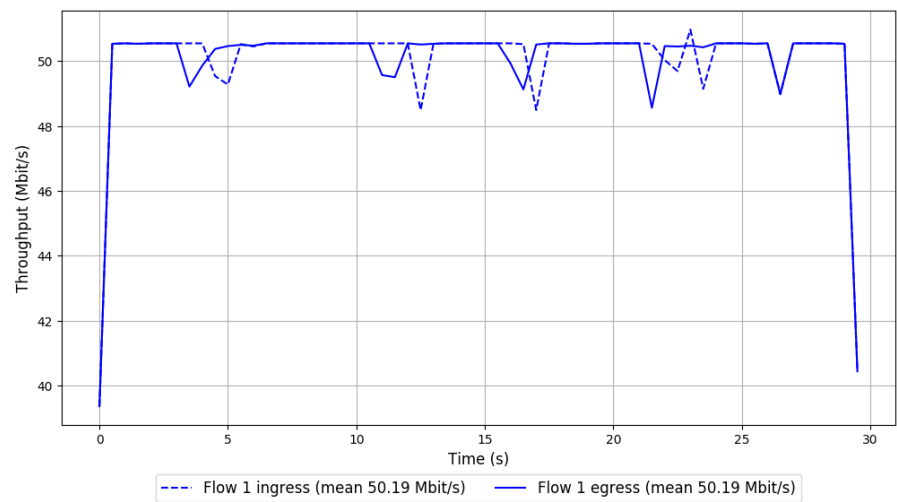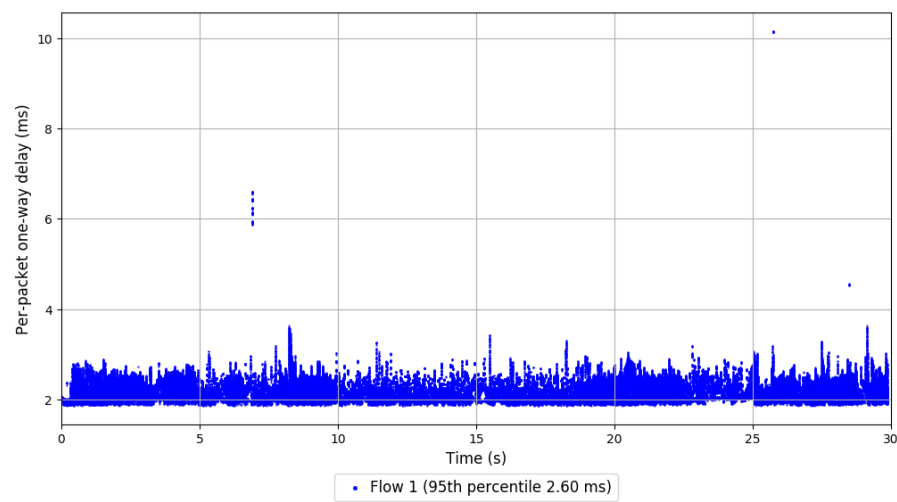
Run 1: Report of Sprout — Data Link

Flow 1 ingress (mean 50.19 Mbit/s) ----   Flow 1 egress (mean 50.19 Mbit/s) ——

• Flow 1 (95th percentile 2.77 ms)

```
Run 2: Statistics of Sprout

Start at: 2017-09-03 04:24:01
End at: 2017-09-03 04:24:31
Local clock offset: -3.577 ms
Remote clock offset: 0.121 ms


# Below is generated by plot.py at 2017-09-03 09:56:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 2.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 2.597 ms
Loss rate: 0.00%
```
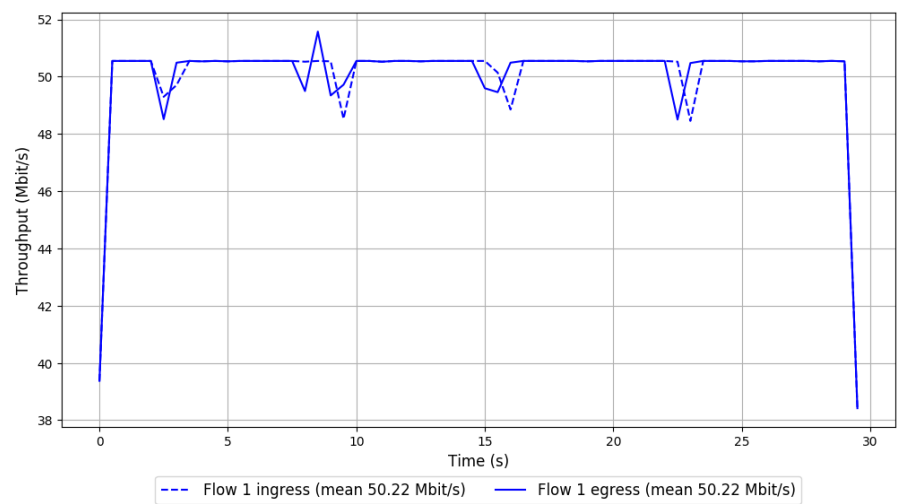
Run 2: Report of Sprout — Data Link

Flow 1 ingress (mean 50.22 Mbit/s)   ——— Flow 1 egress (mean 50.22 Mbit/s)

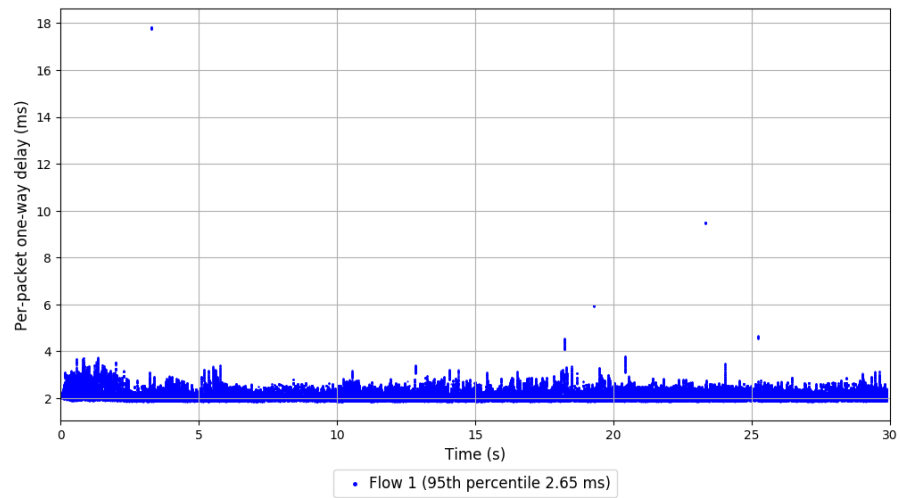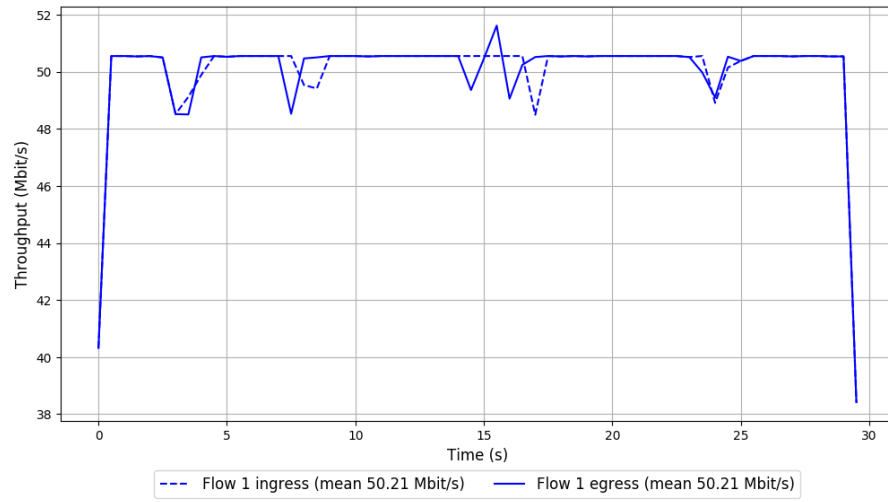• Flow 1 (95th percentile 2.60 ms)

```
Run 3: Statistics of Sprout

Start at: 2017-09-03 04:43:00
End at: 2017-09-03 04:43:30
Local clock offset: -3.381 ms
Remote clock offset: 0.008 ms


# Below is generated by plot.py at 2017-09-03 09:56:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 2.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 2.650 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

Flow 1 ingress (mean 50.21 Mbit/s)   Flow 1 egress (mean 50.21 Mbit/s)

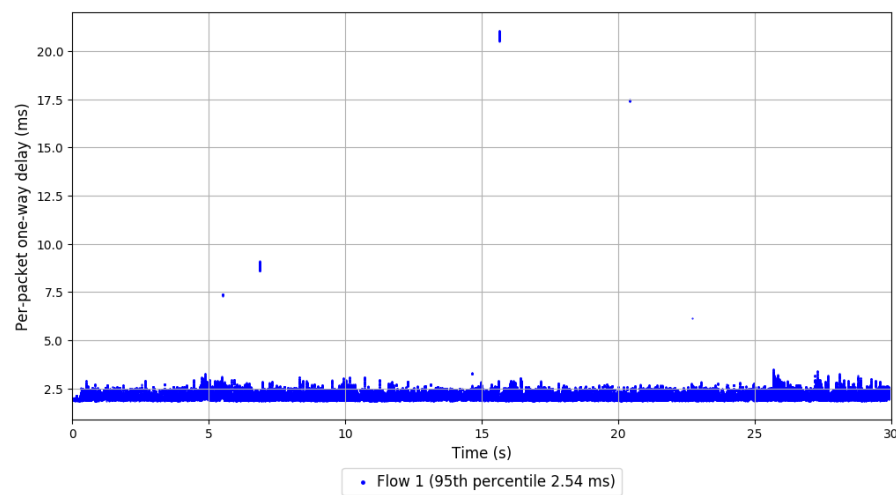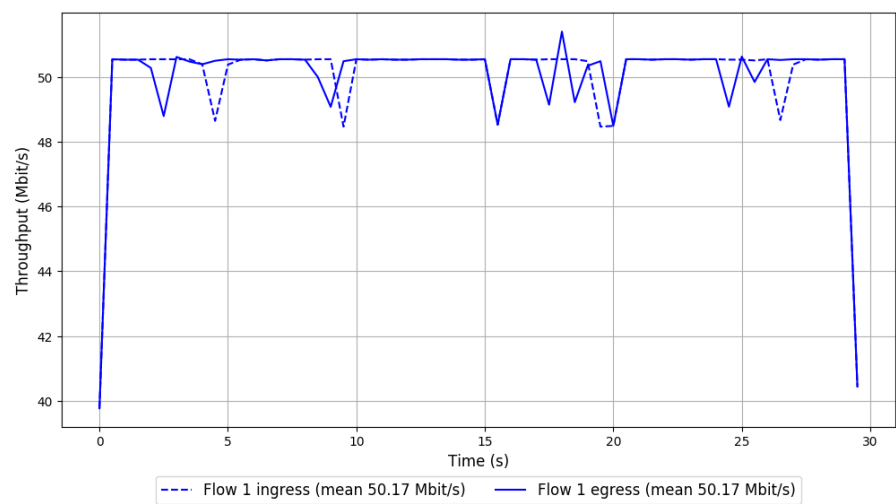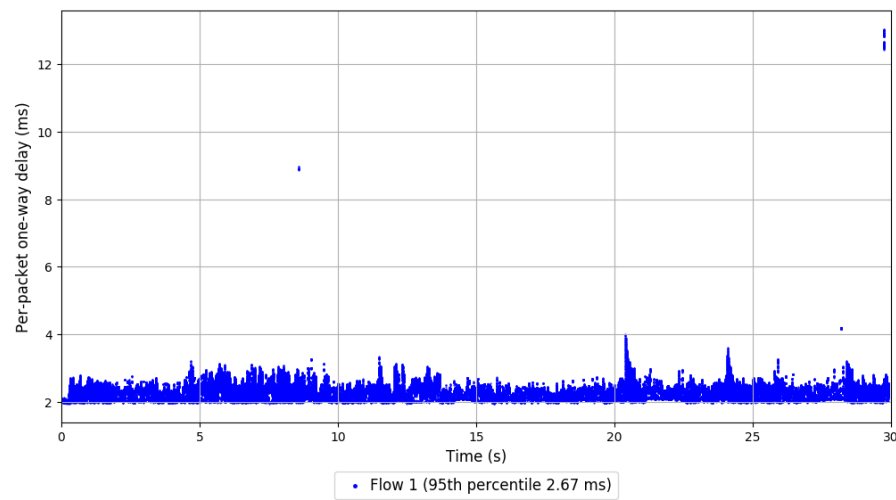Flow 1 (95th percentile 2.65 ms)

```
Run 4: Statistics of Sprout

Start at: 2017-09-03 05:02:05
End at: 2017-09-03 05:02:35
Local clock offset: -3.206 ms
Remote clock offset: -0.033 ms


# Below is generated by plot.py at 2017-09-03 09:56:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.17 Mbit/s
95th percentile per-packet one-way delay: 2.545 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.17 Mbit/s
95th percentile per-packet one-way delay: 2.545 ms
Loss rate: 0.00%
```

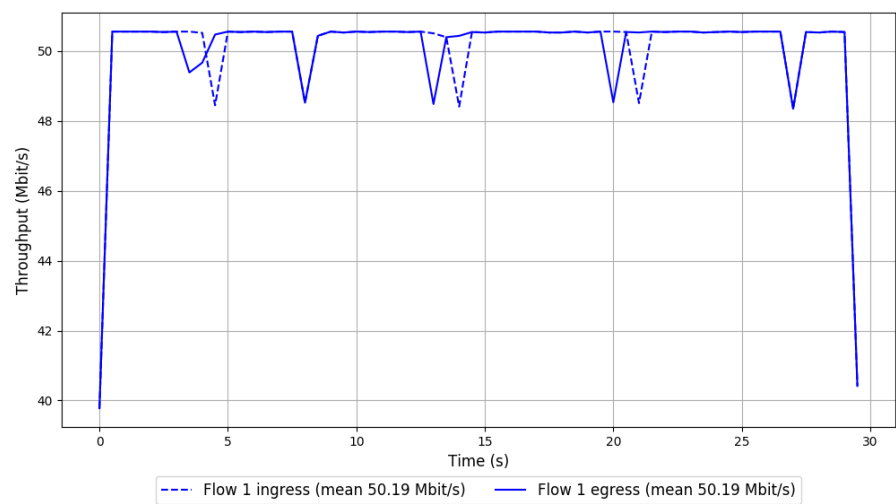Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2017-09-03 05:21:10
End at: 2017-09-03 05:21:40
Local clock offset: -3.157 ms
Remote clock offset: -0.064 ms


# Below is generated by plot.py at 2017-09-03 09:56:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.19 Mbit/s
95th percentile per-packet one-way delay: 2.675 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.19 Mbit/s
95th percentile per-packet one-way delay: 2.675 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

Flow 1 ingress (mean 50.19 Mbit/s)   Flow 1 egress (mean 50.19 Mbit/s)

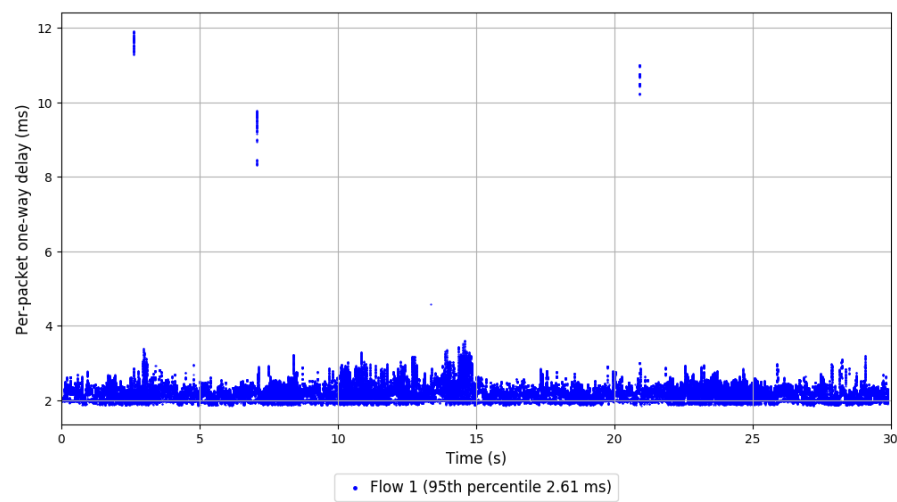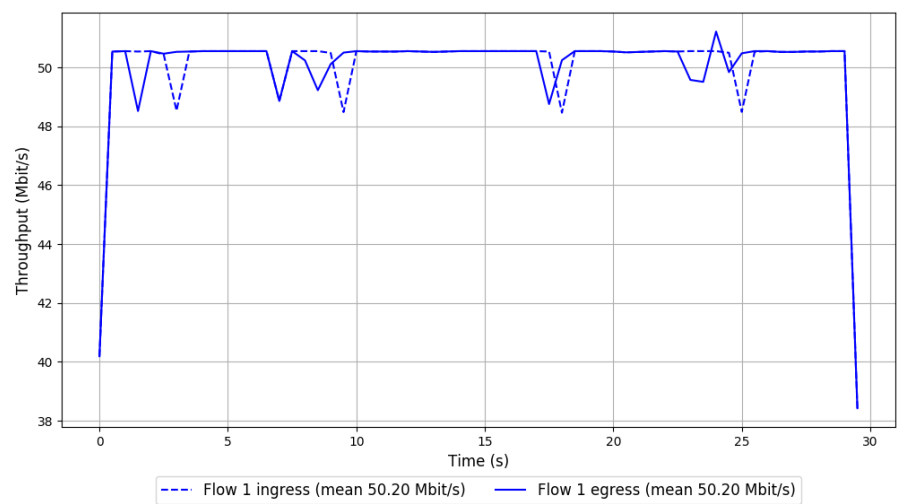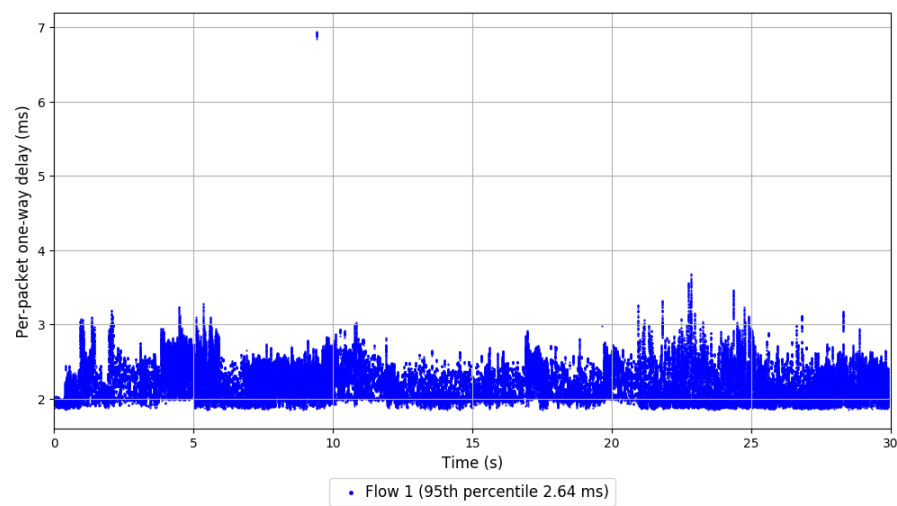Flow 1 (95th percentile 2.67 ms)

```
Run 6: Statistics of Sprout

Start at: 2017-09-03 05:40:12
End at: 2017-09-03 05:40:42
Local clock offset: -3.05 ms
Remote clock offset: -0.152 ms


# Below is generated by plot.py at 2017-09-03 09:56:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 2.611 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 2.611 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

Flow 1 ingress (mean 50.20 Mbit/s) ---- Flow 1 egress (mean 50.20 Mbit/s) ——

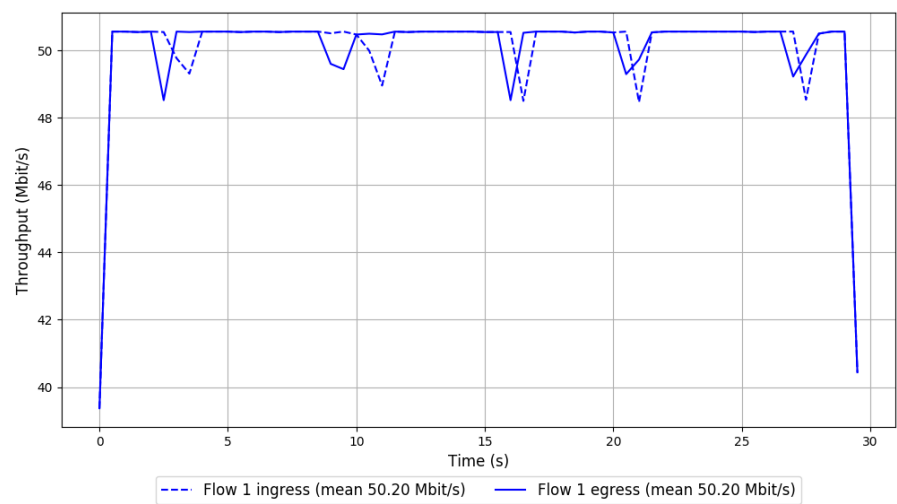• Flow 1 (95th percentile 2.61 ms)

```
Run 7: Statistics of Sprout

Start at: 2017-09-03 05:59:38
End at: 2017-09-03 06:00:09
Local clock offset: -2.792 ms
Remote clock offset: -0.073 ms


# Below is generated by plot.py at 2017-09-03 09:56:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 2.637 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 2.637 ms
Loss rate: 0.00%
```
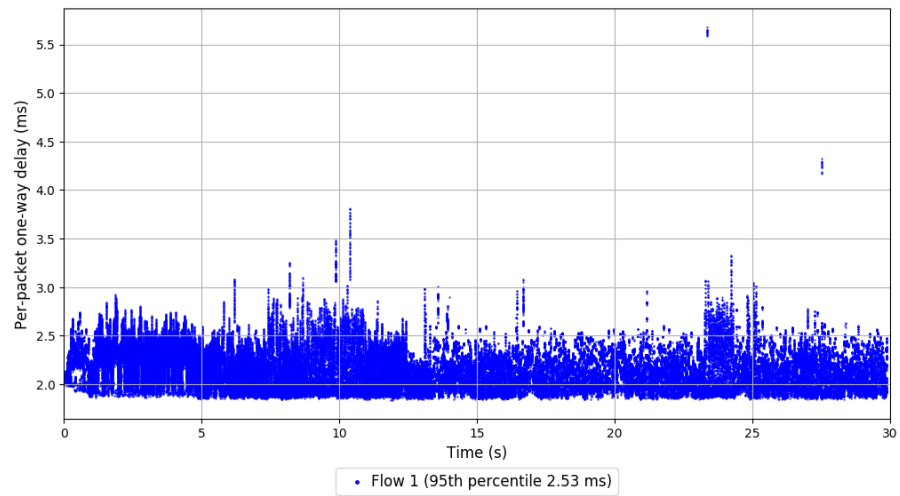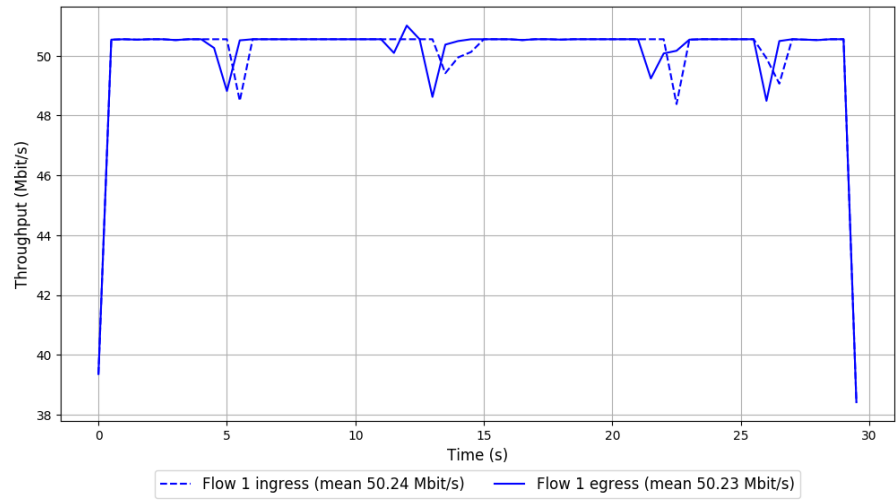
Run 7: Report of Sprout — Data Link

```
Run 8: Statistics of Sprout

Start at: 2017-09-03 06:18:52
End at: 2017-09-03 06:19:22
Local clock offset: -2.64 ms
Remote clock offset: 0.005 ms


# Below is generated by plot.py at 2017-09-03 09:56:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 2.529 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 2.529 ms
Loss rate: 0.00%
```
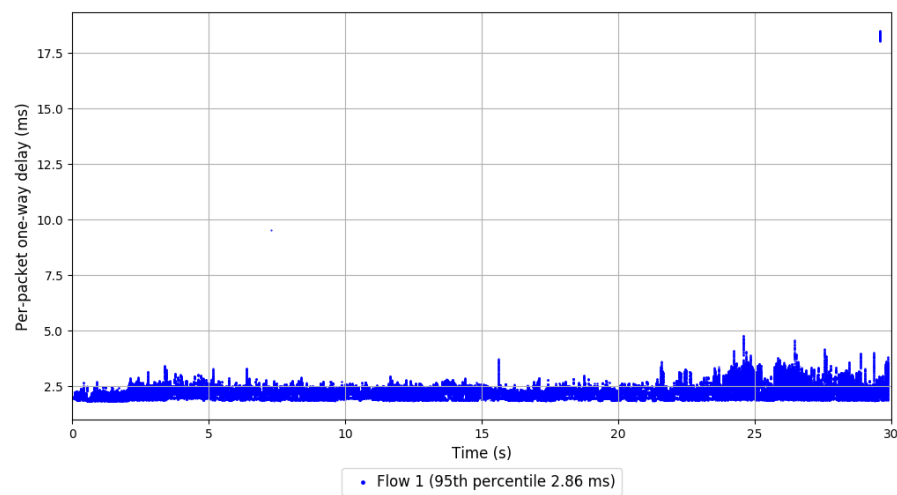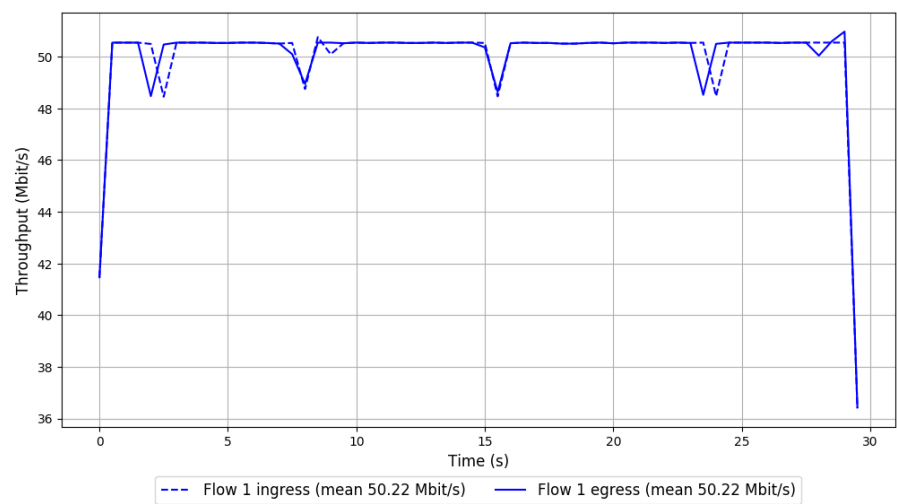
Run 8: Report of Sprout — Data Link

```
Run 9: Statistics of Sprout

Start at: 2017-09-03 06:38:06
End at: 2017-09-03 06:38:36
Local clock offset: -2.631 ms
Remote clock offset: 0.061 ms


# Below is generated by plot.py at 2017-09-03 09:56:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 2.856 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 2.856 ms
Loss rate: 0.00%
```
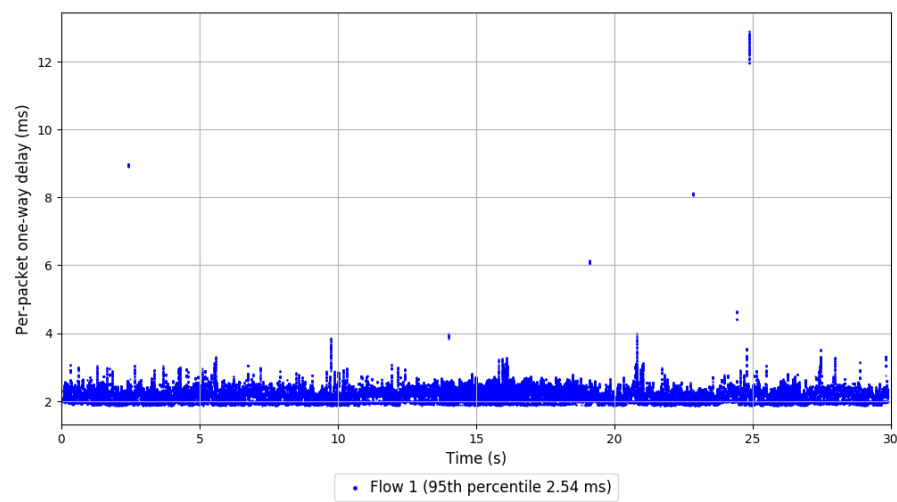
Run 9: Report of Sprout — Data Link

```
Run 10: Statistics of Sprout

Start at: 2017-09-03 06:57:25
End at: 2017-09-03 06:57:55
Local clock offset: -2.637 ms
Remote clock offset: 0.068 ms


# Below is generated by plot.py at 2017-09-03 09:56:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 2.538 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 2.538 ms
Loss rate: 0.00%
```
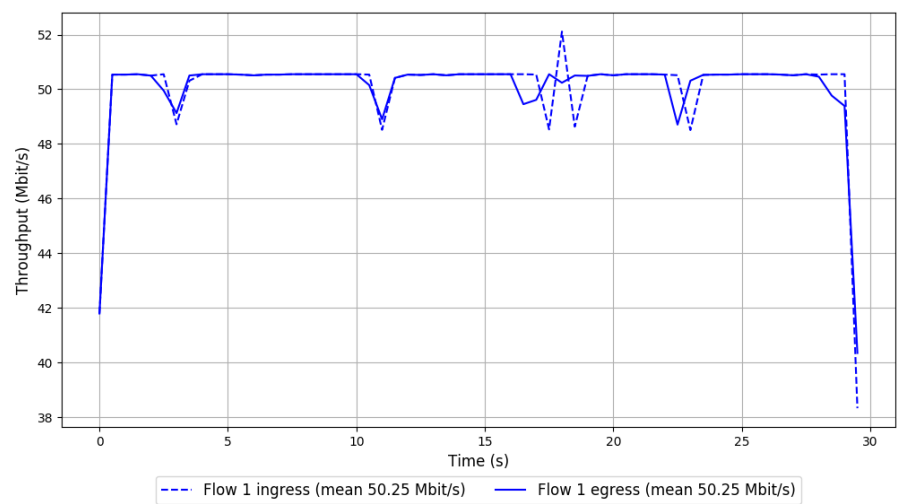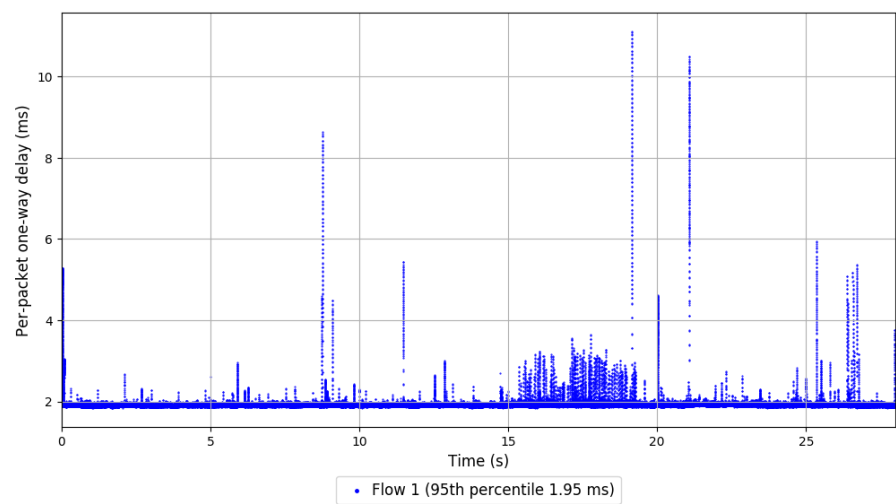
Run 10: Report of Sprout — Data Link

Flow 1 ingress (mean 50.25 Mbit/s) ---- Flow 1 egress (mean 50.25 Mbit/s)

Flow 1 (95th percentile 2.54 ms)

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

Start at: 2017-09-03 04:17:43
End at: 2017-09-03 04:18:13
Local clock offset: -3.573 ms
Remote clock offset: 0.187 ms

# Below is generated by plot.py at 2017-09-03 09:57:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.13 Mbit/s
95th percentile per-packet one-way delay: 1.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.13 Mbit/s
95th percentile per-packet one-way delay: 1.954 ms
Loss rate: 0.00%
```
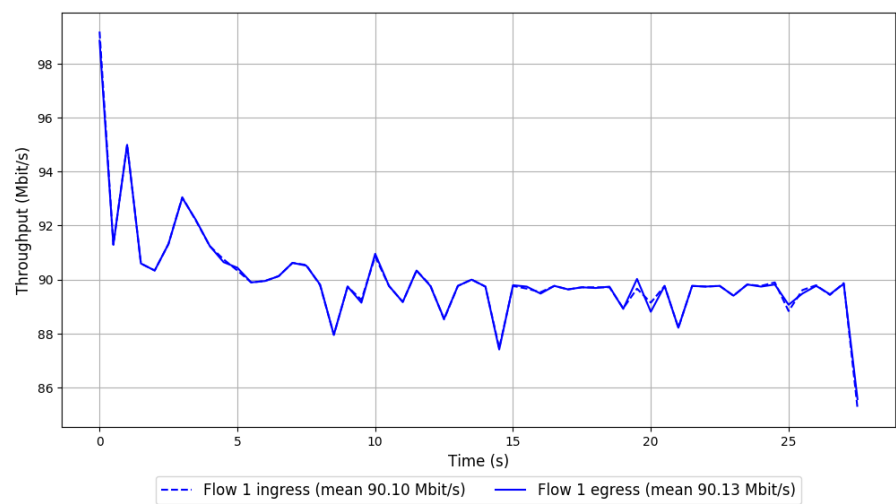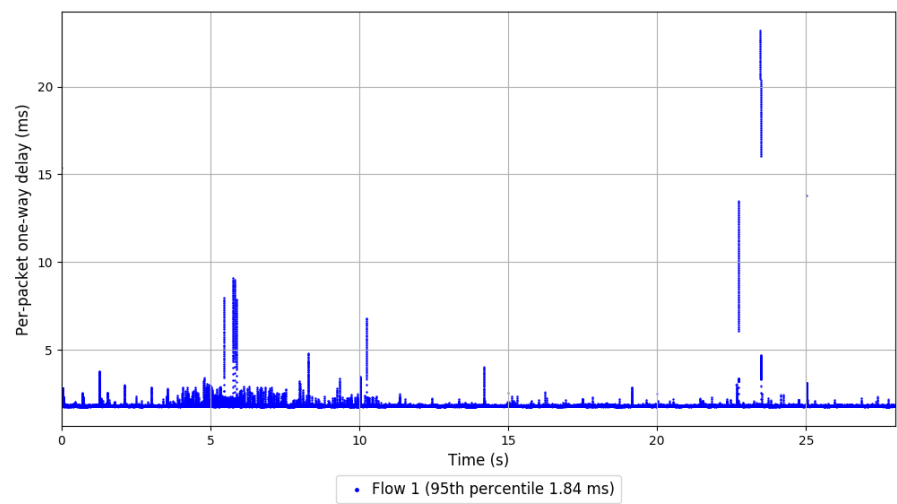
Run 1: Report of TaoVA-100x — Data Link

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

Start at: 2017-09-03 04:36:54
End at: 2017-09-03 04:37:24
Local clock offset: -3.424 ms
Remote clock offset: -0.03 ms


# Below is generated by plot.py at 2017-09-03 09:57:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 1.844 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 1.844 ms
Loss rate: 0.00%
```
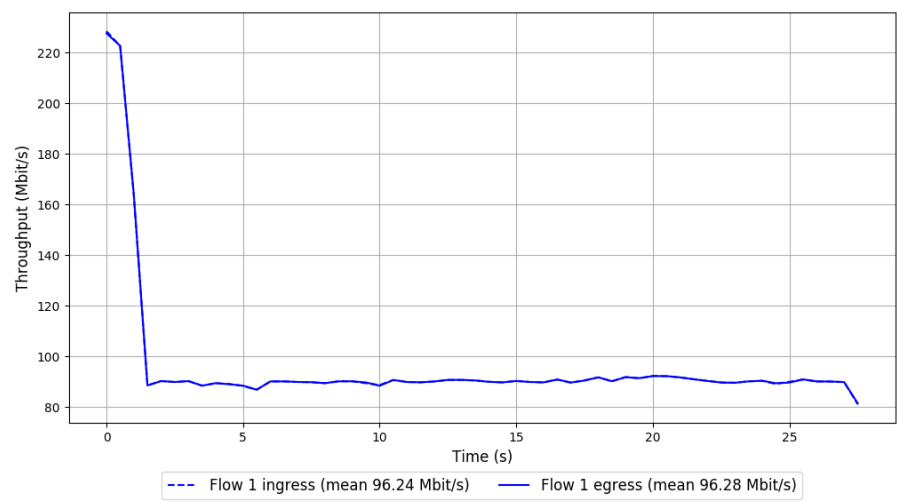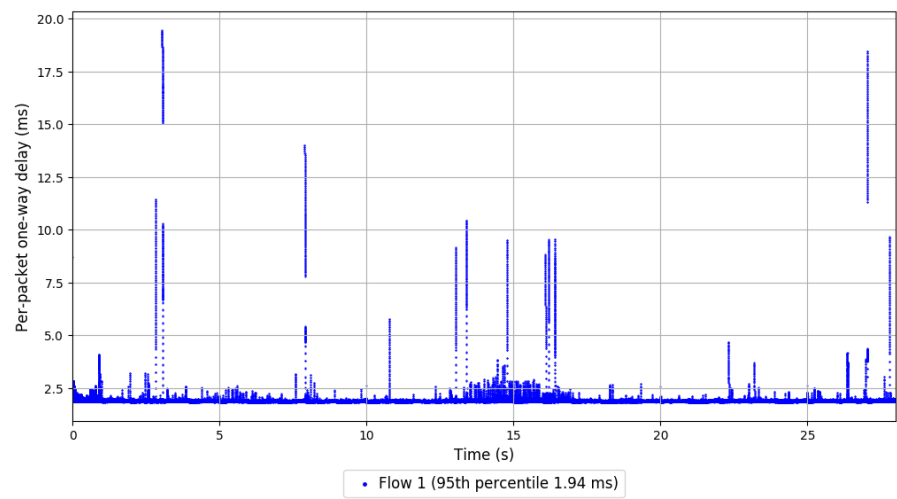
Run 2: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 96.24 Mbit/s) --- Flow 1 egress (mean 96.28 Mbit/s) ——

Flow 1 (95th percentile 1.84 ms)

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

Start at: 2017-09-03 04:55:45
End at: 2017-09-03 04:56:15
Local clock offset: -3.286 ms
Remote clock offset: -0.059 ms


# Below is generated by plot.py at 2017-09-03 09:57:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.95 Mbit/s
95th percentile per-packet one-way delay: 1.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.95 Mbit/s
95th percentile per-packet one-way delay: 1.941 ms
Loss rate: 0.00%
```
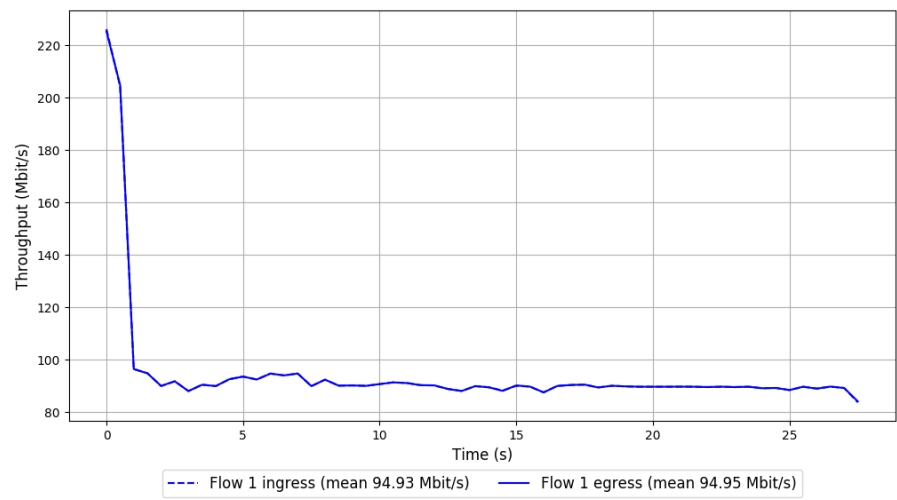
Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 94.93 Mbit/s)   Flow 1 egress (mean 94.95 Mbit/s)

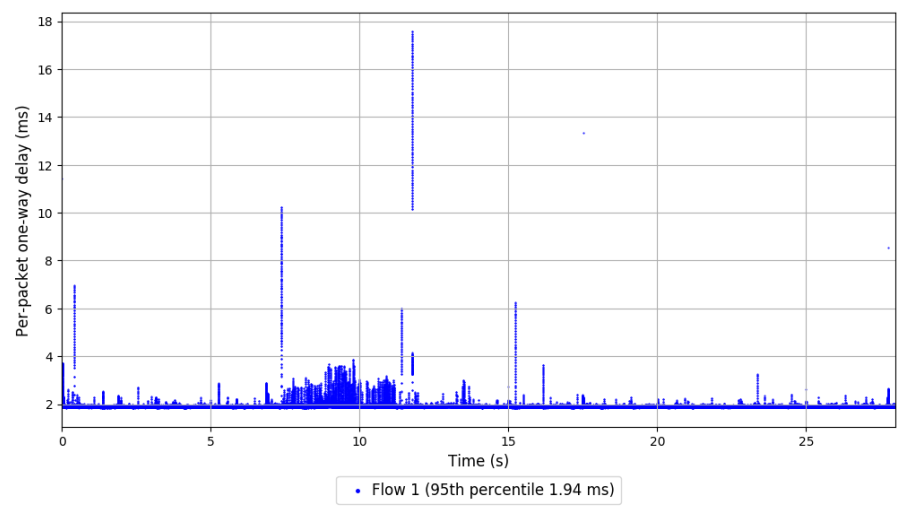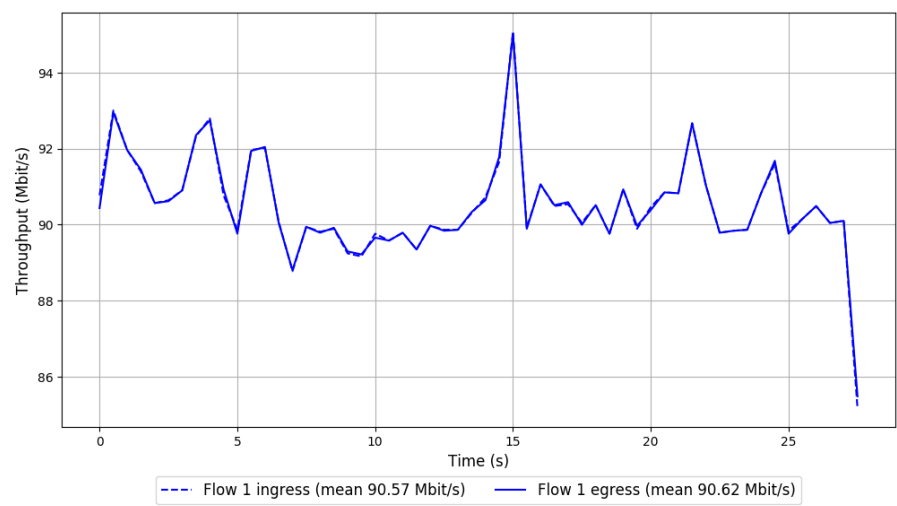Flow 1 (95th percentile 1.94 ms)

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

Start at: 2017-09-03 05:14:51
End at: 2017-09-03 05:15:21
Local clock offset: -3.133 ms
Remote clock offset: -0.076 ms


# Below is generated by plot.py at 2017-09-03 09:57:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.62 Mbit/s
95th percentile per-packet one-way delay: 1.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.62 Mbit/s
95th percentile per-packet one-way delay: 1.940 ms
Loss rate: 0.00%
```
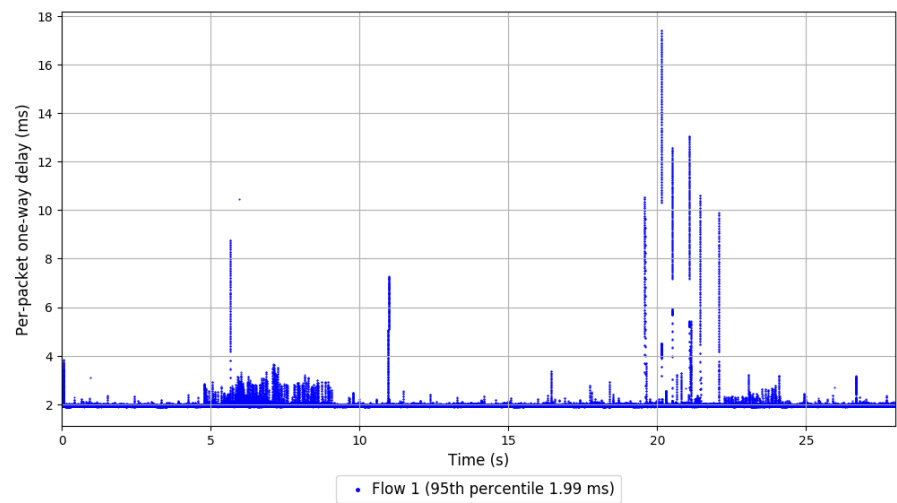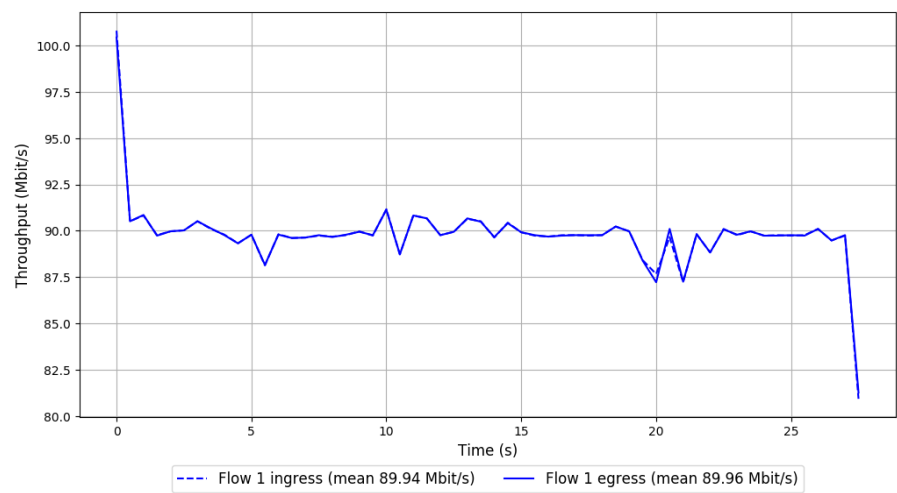
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 90.57 Mbit/s) --- Flow 1 egress (mean 90.62 Mbit/s)

Flow 1 (95th percentile 1.94 ms)

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

Start at: 2017-09-03 05:33:53
End at: 2017-09-03 05:34:23
Local clock offset: -3.064 ms
Remote clock offset: -0.063 ms


# Below is generated by plot.py at 2017-09-03 09:58:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.96 Mbit/s
95th percentile per-packet one-way delay: 1.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.96 Mbit/s
95th percentile per-packet one-way delay: 1.989 ms
Loss rate: 0.00%
```
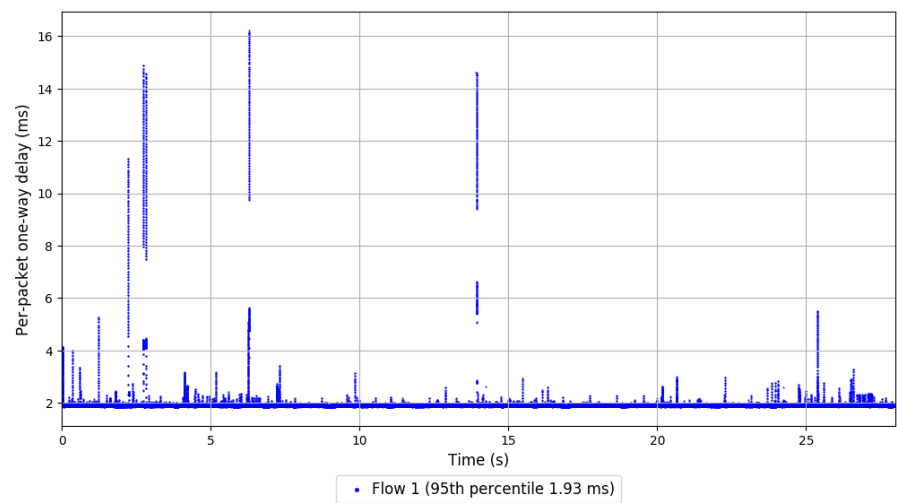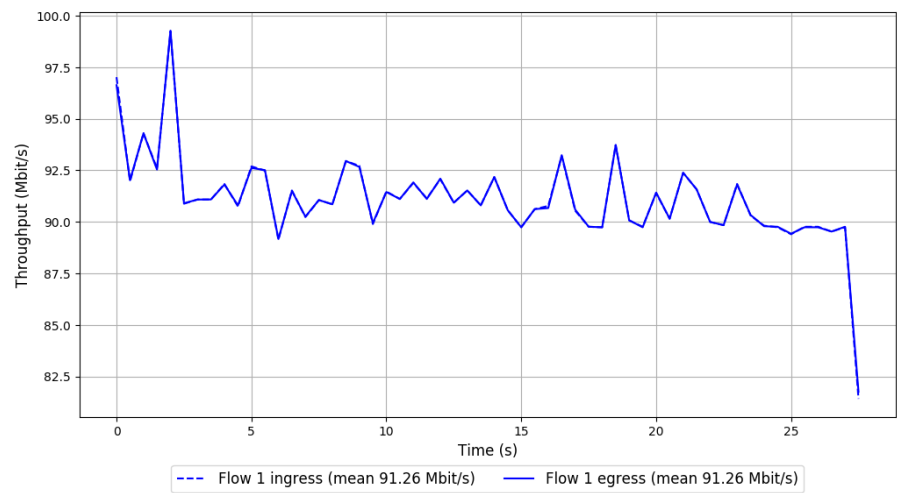
Run 5: Report of TaoVA-100x — Data Link

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

Start at: 2017-09-03 05:53:12
End at: 2017-09-03 05:53:42
Local clock offset: -2.875 ms
Remote clock offset: -0.104 ms


# Below is generated by plot.py at 2017-09-03 09:58:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 1.929 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 1.929 ms
Loss rate: 0.00%
```

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

Flow 1 ingress (mean 91.26 Mbit/s)   Flow 1 egress (mean 91.26 Mbit/s)

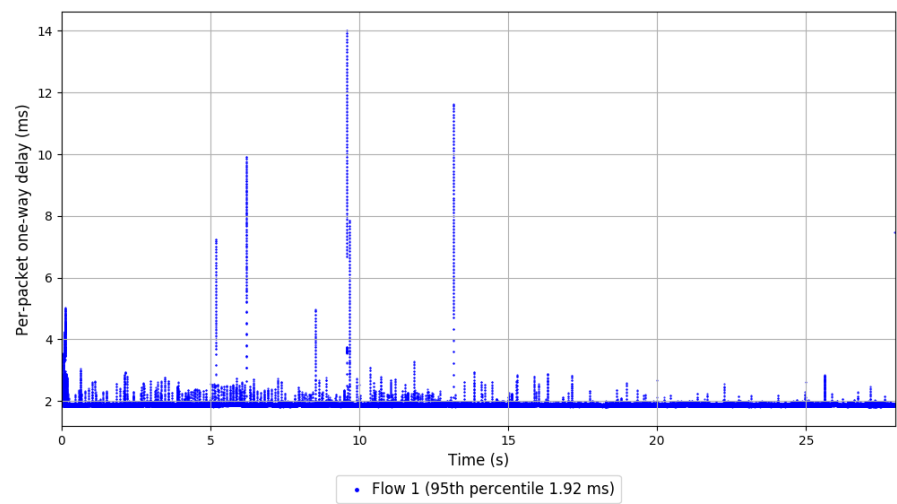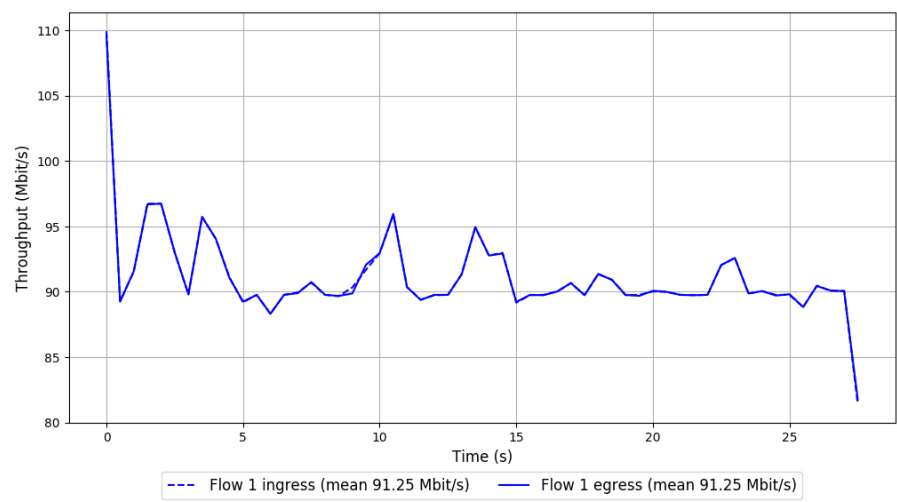

Flow 1 (95th percentile 1.93 ms)

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

Start at: 2017-09-03 06:12:29
End at: 2017-09-03 06:12:59
Local clock offset: -2.686 ms
Remote clock offset: -0.037 ms


# Below is generated by plot.py at 2017-09-03 09:58:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 1.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 1.915 ms
Loss rate: 0.00%
```
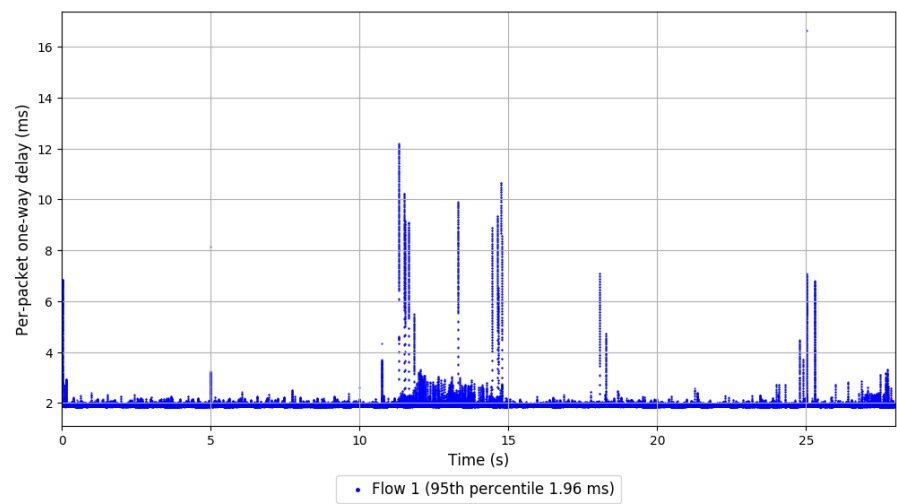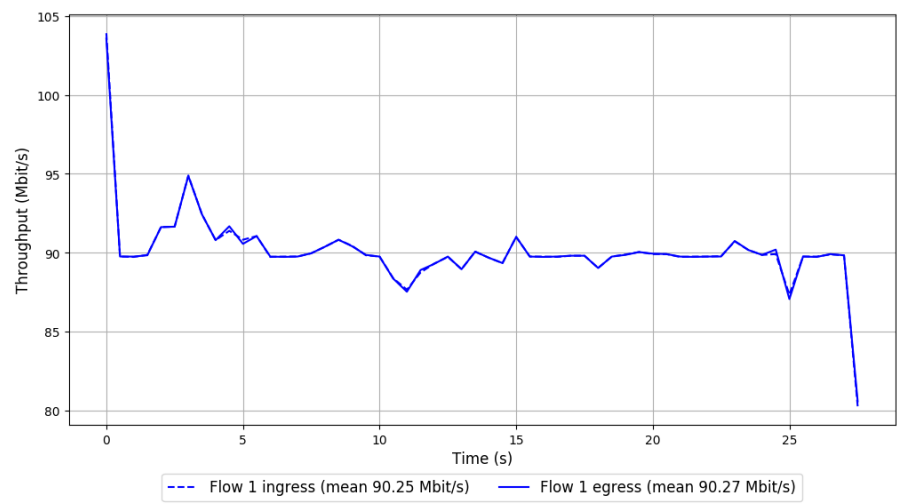
Run 7: Report of TaoVA-100x — Data Link

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

Flow 1 (95th percentile 1.92 ms)

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

Start at: 2017-09-03 06:31:47
End at: 2017-09-03 06:32:17
Local clock offset: -2.604 ms
Remote clock offset: 0.047 ms


# Below is generated by plot.py at 2017-09-03 09:58:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.27 Mbit/s
95th percentile per-packet one-way delay: 1.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.27 Mbit/s
95th percentile per-packet one-way delay: 1.958 ms
Loss rate: 0.00%
```
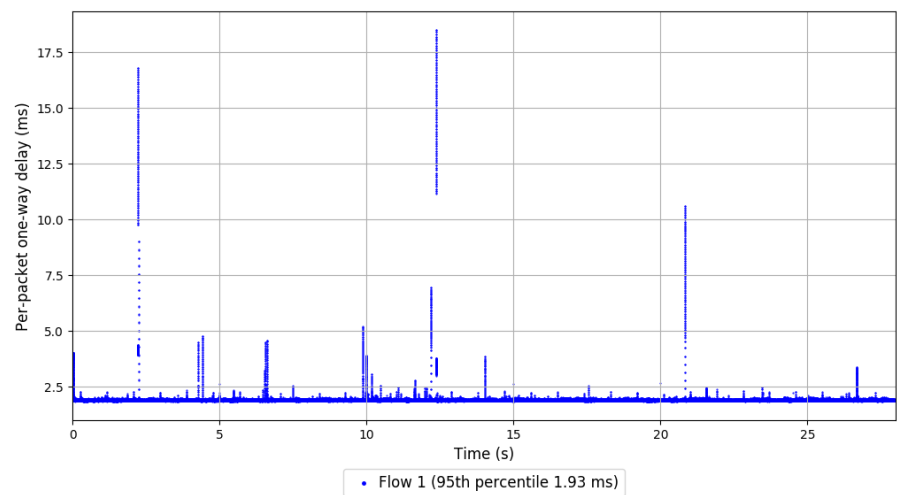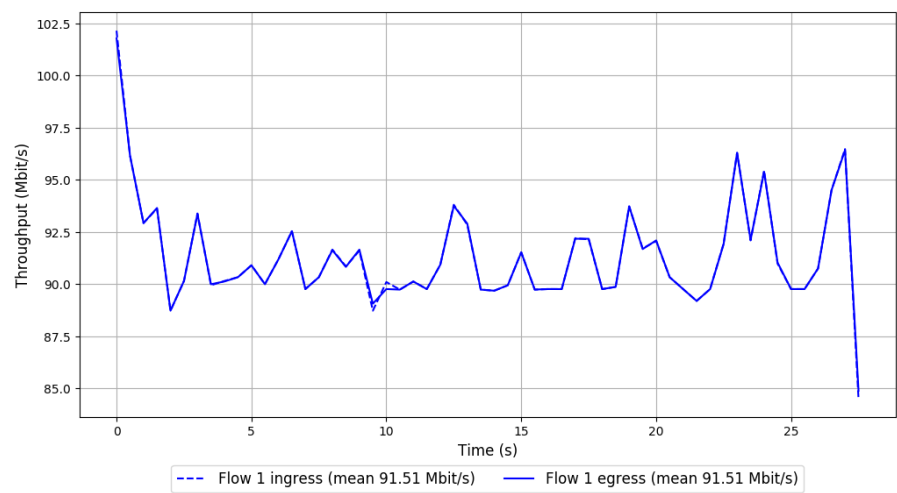
Run 8: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 90.25 Mbit/s) — Flow 1 egress (mean 90.27 Mbit/s)

Flow 1 (95th percentile 1.96 ms)

239

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

Start at: 2017-09-03 06:51:03
End at: 2017-09-03 06:51:33
Local clock offset: -2.659 ms
Remote clock offset: 0.086 ms


# Below is generated by plot.py at 2017-09-03 09:58:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.51 Mbit/s
95th percentile per-packet one-way delay: 1.926 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.51 Mbit/s
95th percentile per-packet one-way delay: 1.926 ms
Loss rate: 0.00%
```
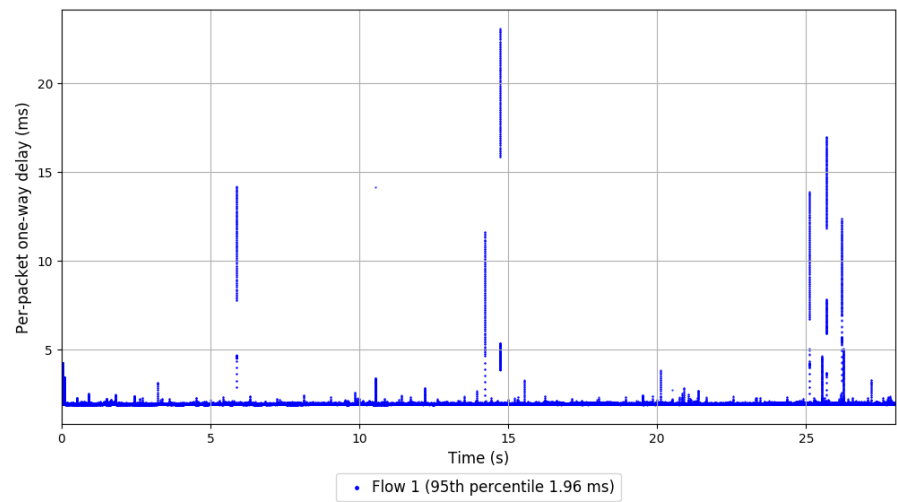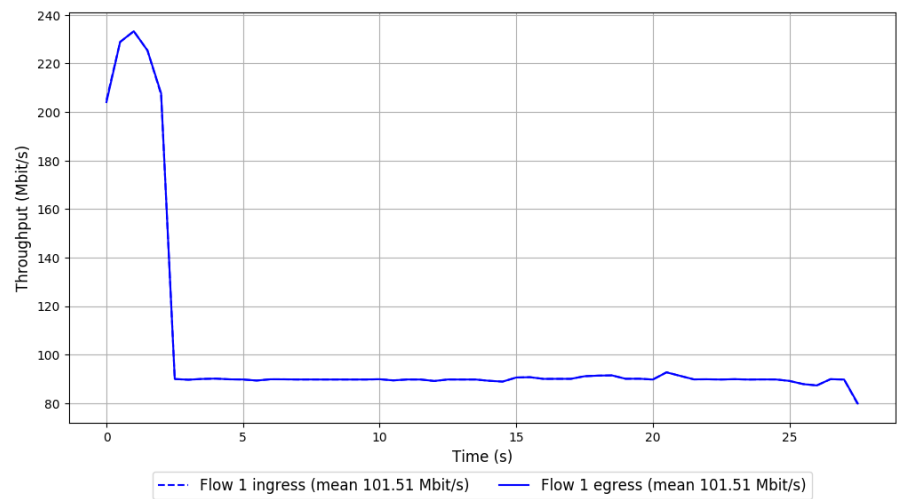
Run 9: Report of TaoVA-100x — Data Link

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

• Flow 1 (95th percentile 1.93 ms)

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

Start at: 2017-09-03 07:10:18
End at: 2017-09-03 07:10:48
Local clock offset: -2.545 ms
Remote clock offset: -0.028 ms


# Below is generated by plot.py at 2017-09-03 09:58:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 101.51 Mbit/s
95th percentile per-packet one-way delay: 1.961 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 101.51 Mbit/s
95th percentile per-packet one-way delay: 1.961 ms
Loss rate: 0.00%
```
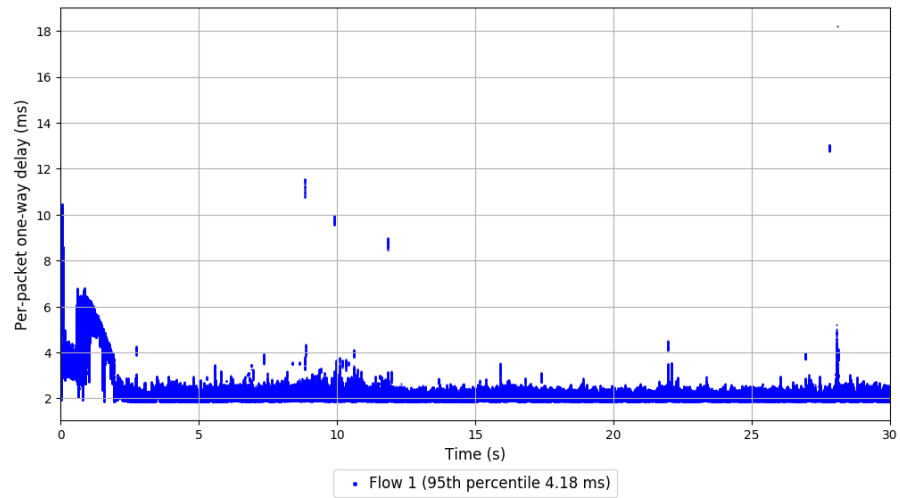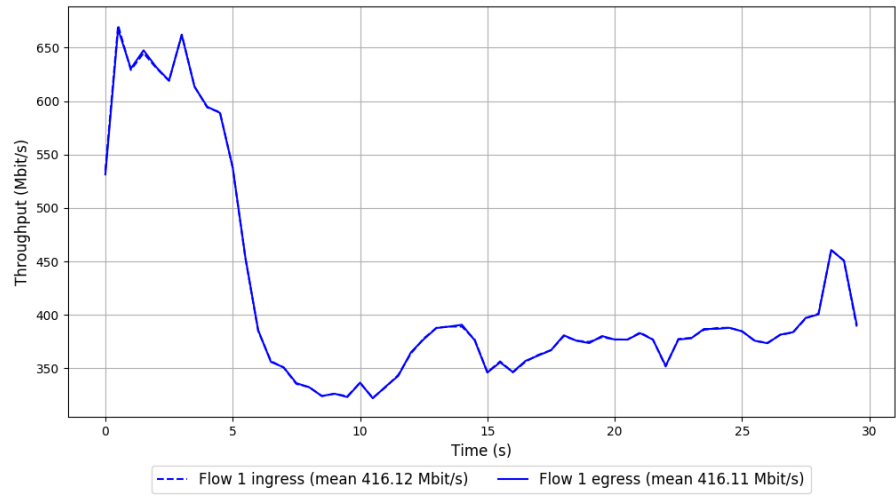
Run 10: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 101.51 Mbit/s)   Flow 1 egress (mean 101.51 Mbit/s)

Flow 1 (95th percentile 1.96 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2017-09-03 04:18:54
End at: 2017-09-03 04:19:24
Local clock offset: -3.564 ms
Remote clock offset: 0.186 ms


# Below is generated by plot.py at 2017-09-03 09:59:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 416.11 Mbit/s
95th percentile per-packet one-way delay: 4.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 416.11 Mbit/s
95th percentile per-packet one-way delay: 4.185 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2017-09-03 04:38:05
End at: 2017-09-03 04:38:35
Local clock offset: -3.436 ms
Remote clock offset: 0.042 ms


# Below is generated by plot.py at 2017-09-03 09:59:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.24 Mbit/s
95th percentile per-packet one-way delay: 2.484 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 337.24 Mbit/s
95th percentile per-packet one-way delay: 2.484 ms
Loss rate: 0.01%
```
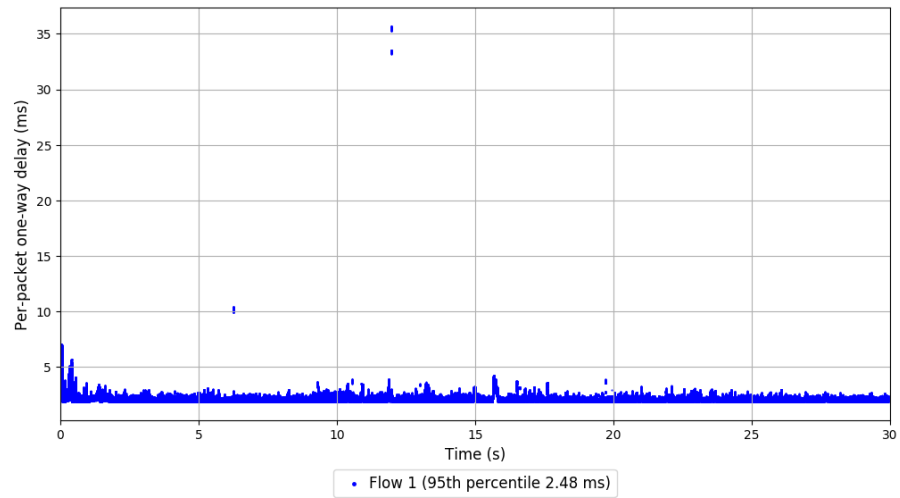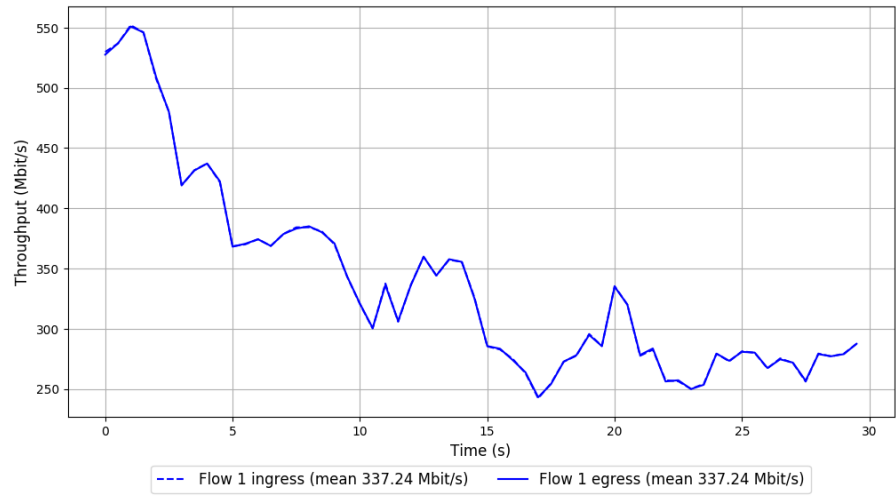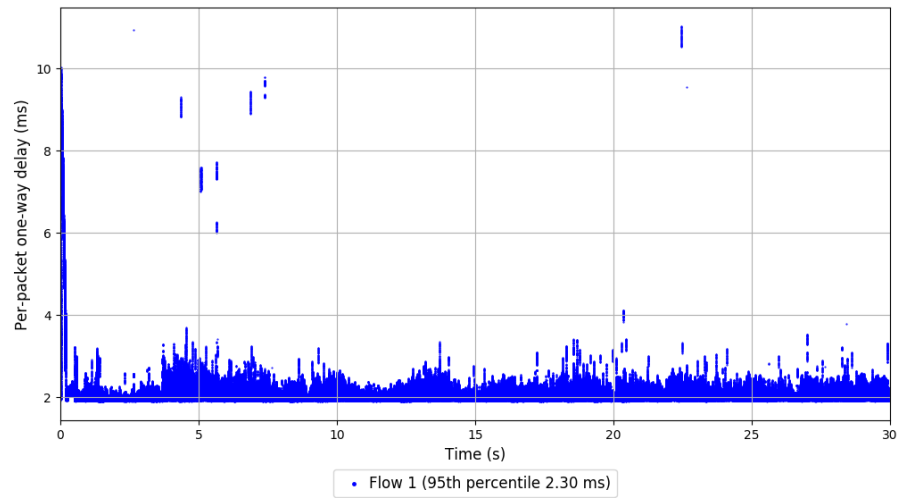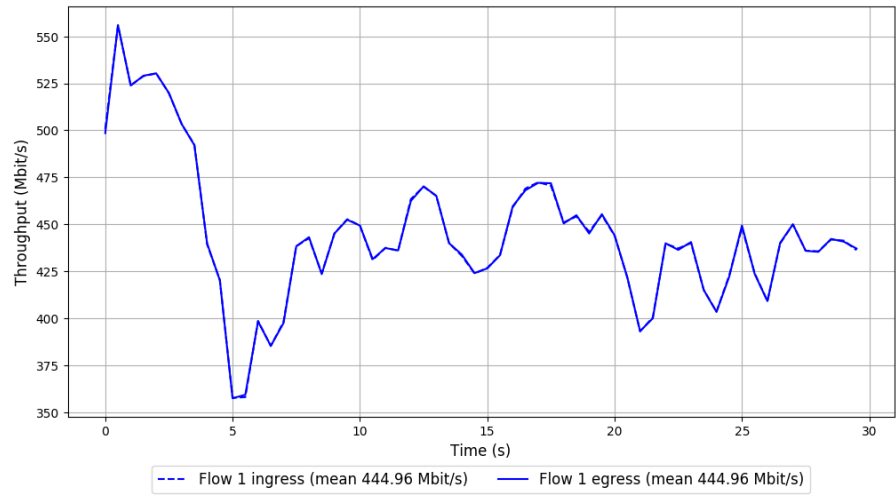
Run 2: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 337.24 Mbit/s) — — — Flow 1 egress (mean 337.24 Mbit/s)
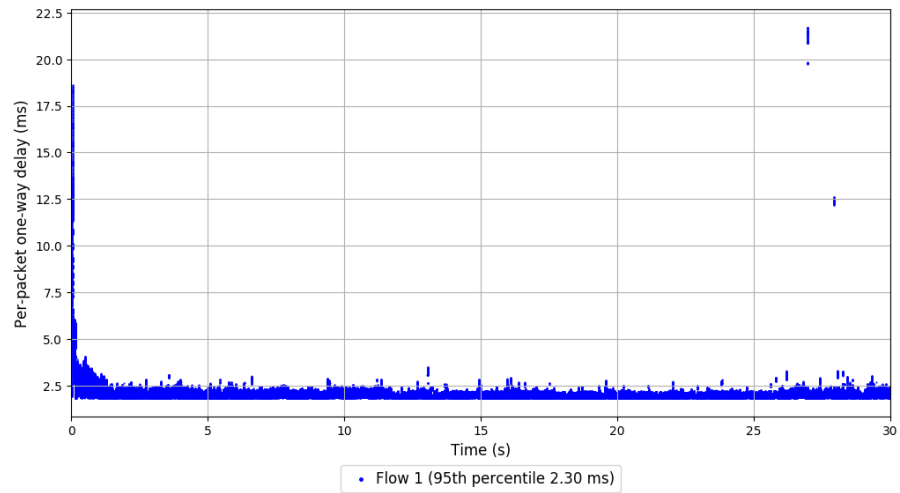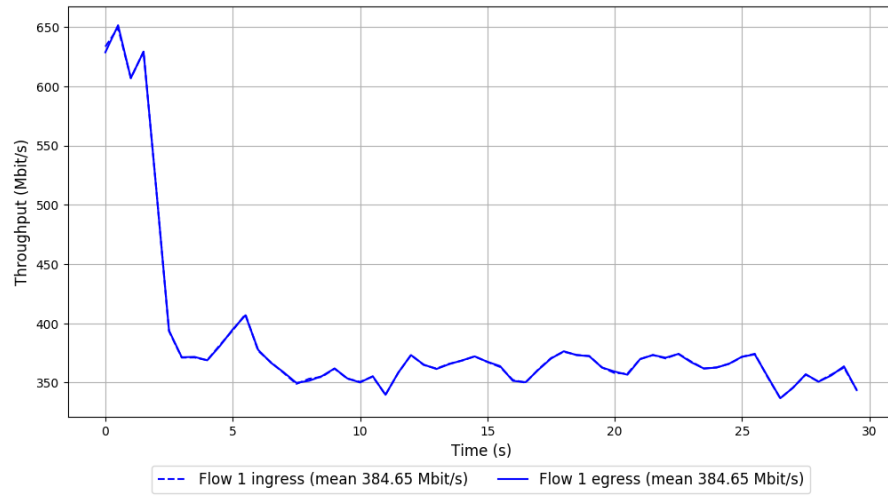

Flow 1 (95th percentile 2.48 ms)

```
Run 3: Statistics of TCP Vegas

Start at: 2017-09-03 04:56:56
End at: 2017-09-03 04:57:26
Local clock offset: -3.339 ms
Remote clock offset: -0.052 ms


# Below is generated by plot.py at 2017-09-03 10:00:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 444.96 Mbit/s
95th percentile per-packet one-way delay: 2.296 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 444.96 Mbit/s
95th percentile per-packet one-way delay: 2.296 ms
Loss rate: 0.00%
```
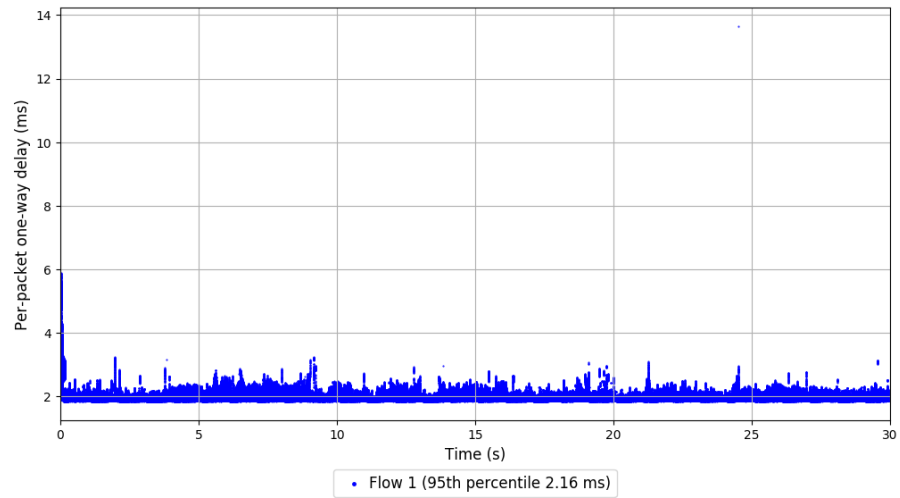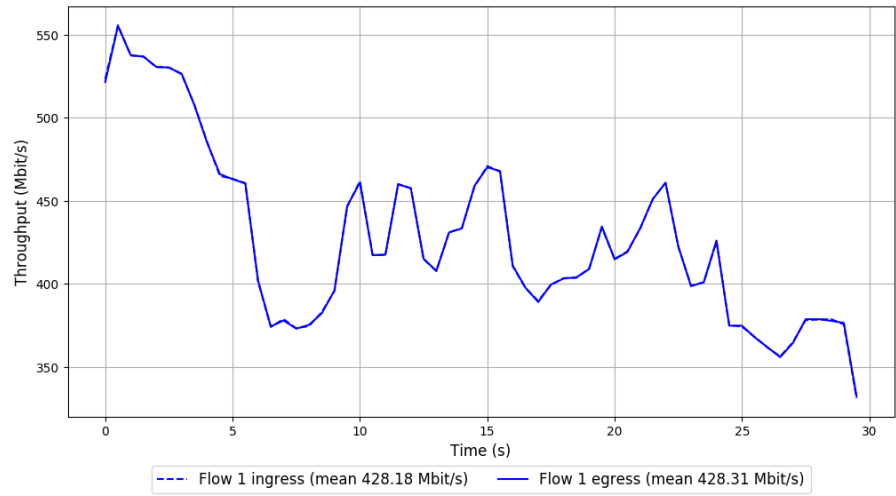
Run 3: Report of TCP Vegas — Data Link

```
Run 4: Statistics of TCP Vegas

Start at: 2017-09-03 05:16:02
End at: 2017-09-03 05:16:32
Local clock offset: -3.116 ms
Remote clock offset: -0.092 ms


# Below is generated by plot.py at 2017-09-03 10:00:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.65 Mbit/s
95th percentile per-packet one-way delay: 2.304 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 384.65 Mbit/s
95th percentile per-packet one-way delay: 2.304 ms
Loss rate: 0.00%
```
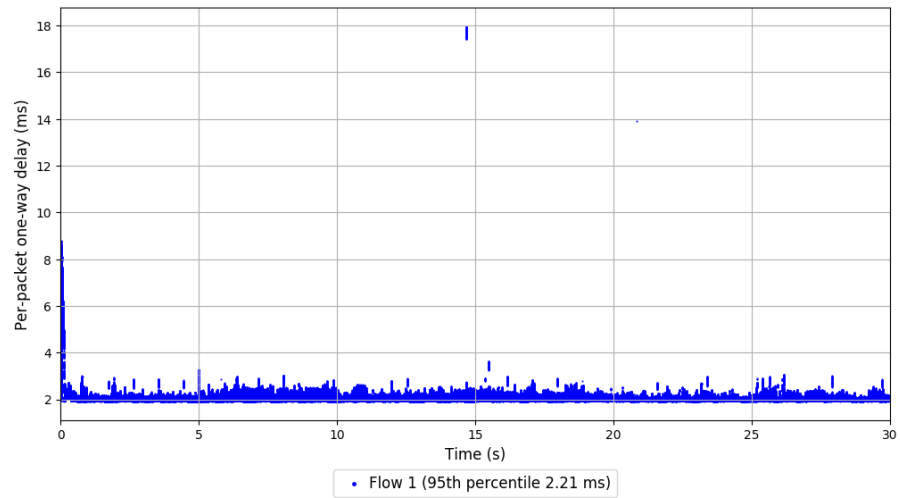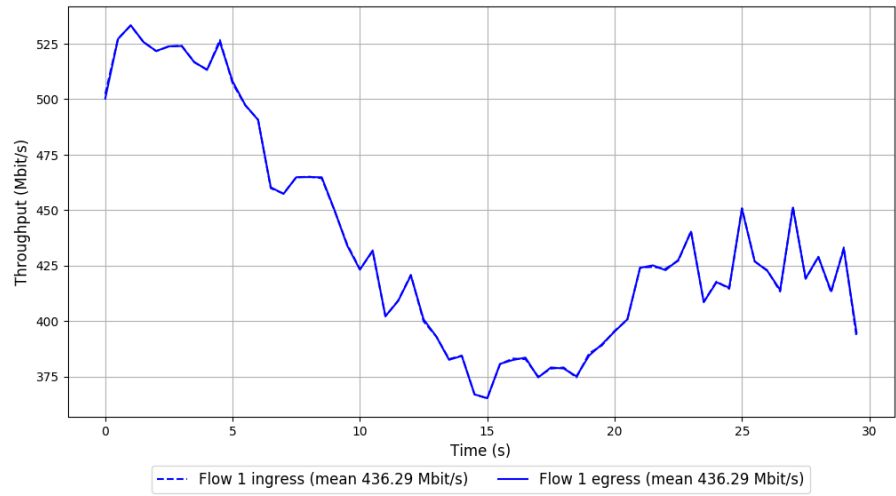
Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2017-09-03 05:35:04
End at: 2017-09-03 05:35:34
Local clock offset: -3.013 ms
Remote clock offset: -0.079 ms


# Below is generated by plot.py at 2017-09-03 10:01:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 428.31 Mbit/s
95th percentile per-packet one-way delay: 2.156 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 428.31 Mbit/s
95th percentile per-packet one-way delay: 2.156 ms
Loss rate: 0.00%
```
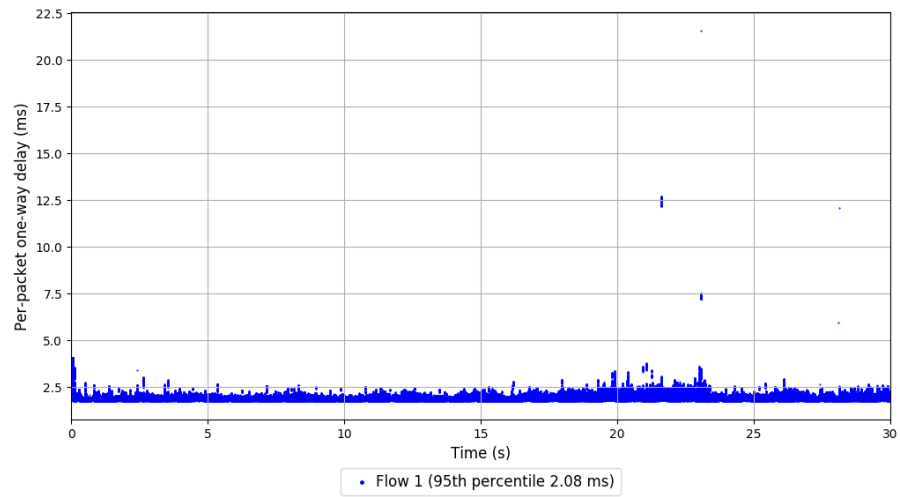
Run 5: Report of TCP Vegas — Data Link

```
Run 6: Statistics of TCP Vegas

Start at: 2017-09-03 05:54:23
End at: 2017-09-03 05:54:53
Local clock offset: -2.917 ms
Remote clock offset: -0.096 ms


# Below is generated by plot.py at 2017-09-03 10:01:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 436.29 Mbit/s
95th percentile per-packet one-way delay: 2.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 436.29 Mbit/s
95th percentile per-packet one-way delay: 2.206 ms
Loss rate: 0.00%
```
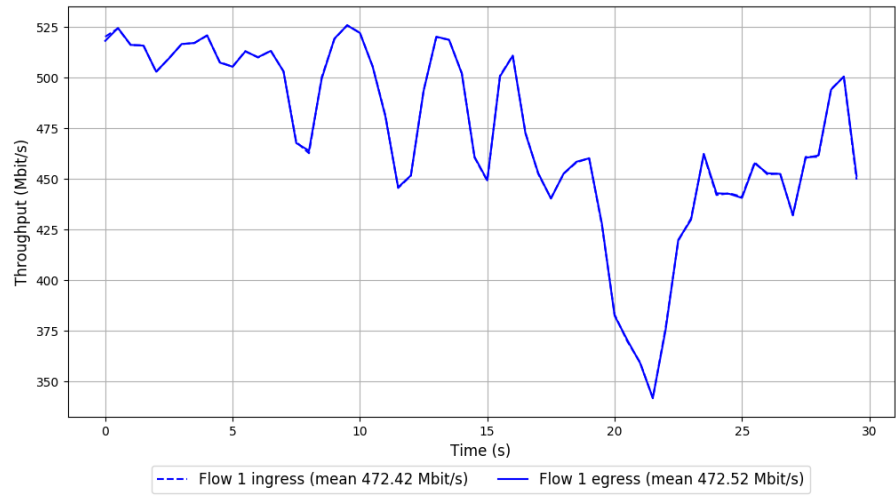
Run 6: Report of TCP Vegas — Data Link

```
Run 7: Statistics of TCP Vegas

Start at: 2017-09-03 06:13:40
End at: 2017-09-03 06:14:10
Local clock offset: -2.689 ms
Remote clock offset: -0.113 ms


# Below is generated by plot.py at 2017-09-03 10:02:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 472.52 Mbit/s
95th percentile per-packet one-way delay: 2.076 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 472.52 Mbit/s
95th percentile per-packet one-way delay: 2.076 ms
Loss rate: 0.00%
```

Run 7: Report of TCP Vegas — Data Link

```
Run 8: Statistics of TCP Vegas

Start at: 2017-09-03 06:32:58
End at: 2017-09-03 06:33:28
Local clock offset: -2.686 ms
Remote clock offset: 0.051 ms


# Below is generated by plot.py at 2017-09-03 10:02:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 391.19 Mbit/s
95th percentile per-packet one-way delay: 2.294 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 391.19 Mbit/s
95th percentile per-packet one-way delay: 2.294 ms
Loss rate: 0.00%
```
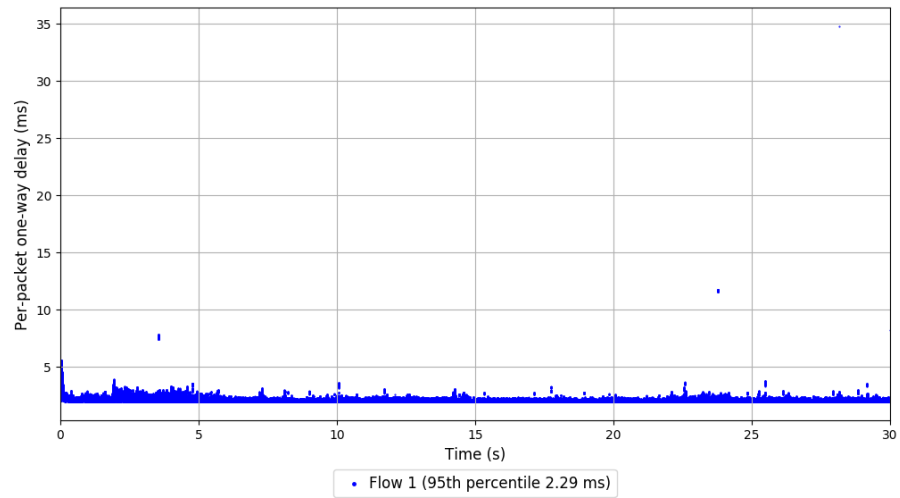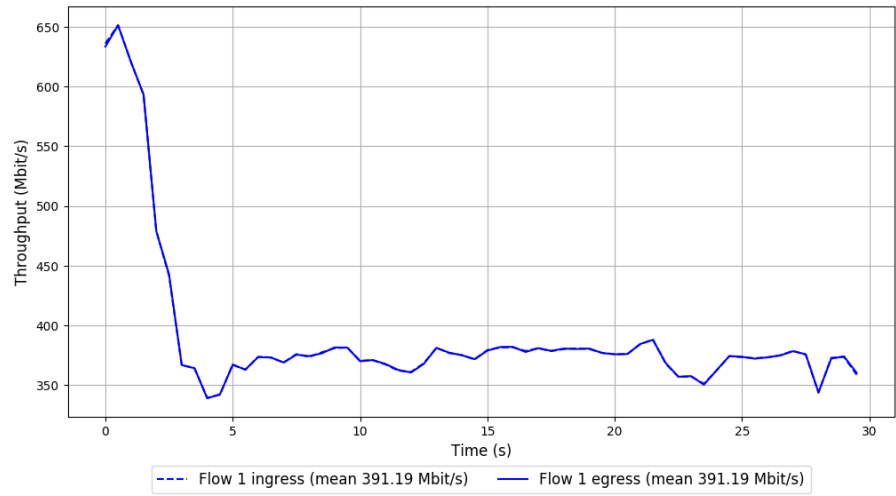
Run 8: Report of TCP Vegas — Data Link

```
Run 9: Statistics of TCP Vegas

Start at: 2017-09-03 06:52:14
End at: 2017-09-03 06:52:44
Local clock offset: -2.661 ms
Remote clock offset: 0.072 ms


# Below is generated by plot.py at 2017-09-03 10:03:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 426.99 Mbit/s
95th percentile per-packet one-way delay: 2.084 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 426.99 Mbit/s
95th percentile per-packet one-way delay: 2.084 ms
Loss rate: 0.00%
```
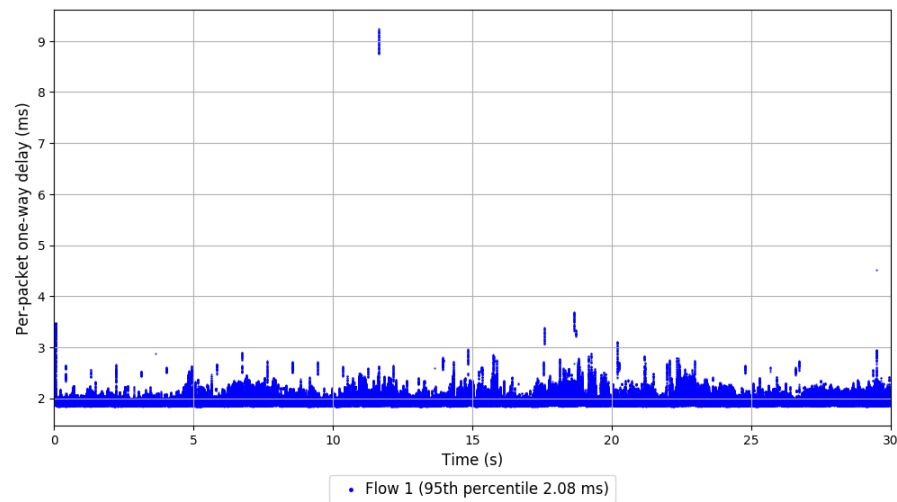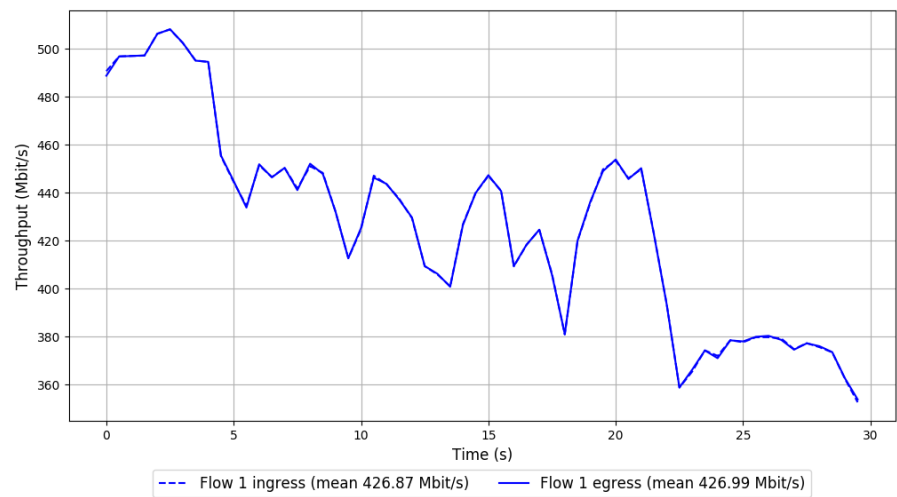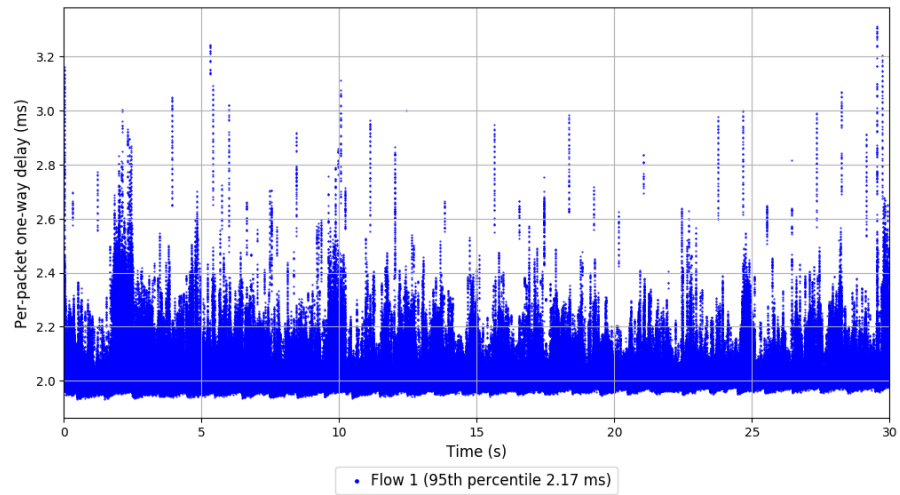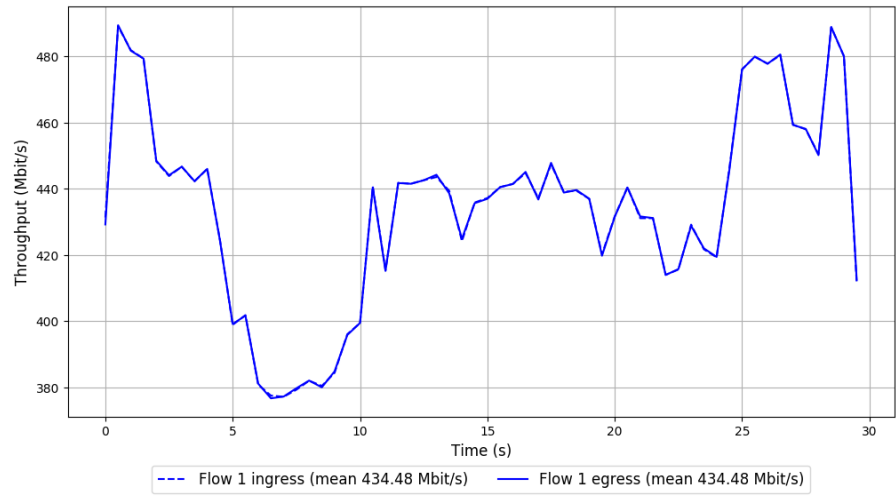
Run 9: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 426.87 Mbit/s)   Flow 1 egress (mean 426.99 Mbit/s)

Flow 1 (95th percentile 2.08 ms)

```
Run 10: Statistics of TCP Vegas

Start at: 2017-09-03 07:11:30
End at: 2017-09-03 07:12:00
Local clock offset: -2.488 ms
Remote clock offset: 0.032 ms


# Below is generated by plot.py at 2017-09-03 10:03:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 434.48 Mbit/s
95th percentile per-packet one-way delay: 2.166 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 434.48 Mbit/s
95th percentile per-packet one-way delay: 2.166 ms
Loss rate: 0.00%
```

Run 10: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2017-09-03 04:08:40
End at: 2017-09-03 04:09:10
Local clock offset: -3.565 ms
Remote clock offset: 0.261 ms


# Below is generated by plot.py at 2017-09-03 10:03:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.98 Mbit/s
95th percentile per-packet one-way delay: 2.895 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 168.98 Mbit/s
95th percentile per-packet one-way delay: 2.895 ms
Loss rate: 0.00%
```
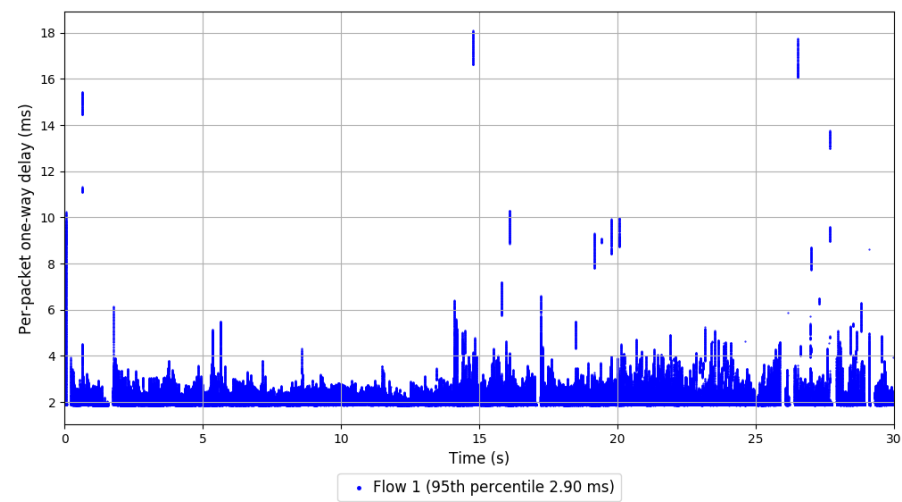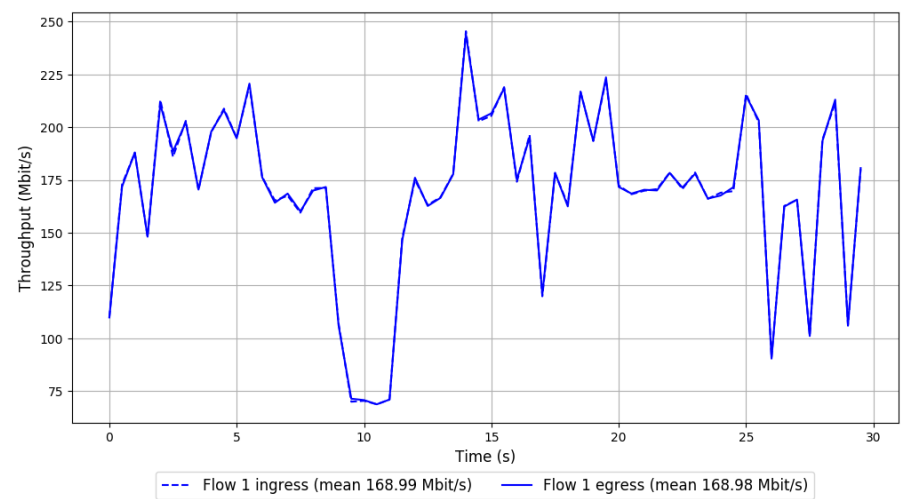
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2017-09-03 04:27:50
End at: 2017-09-03 04:28:20
Local clock offset: -3.496 ms
Remote clock offset: 0.089 ms


# Below is generated by plot.py at 2017-09-03 10:03:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.09 Mbit/s
95th percentile per-packet one-way delay: 2.632 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 157.09 Mbit/s
95th percentile per-packet one-way delay: 2.632 ms
Loss rate: 0.00%
```
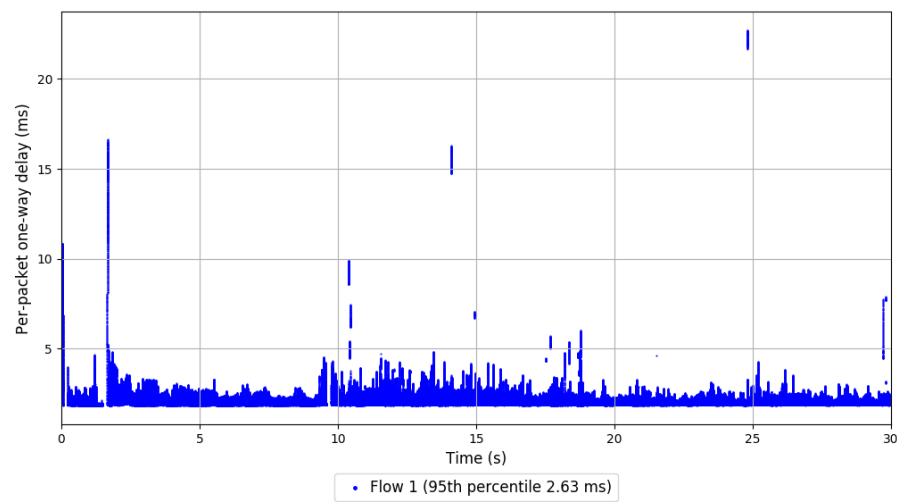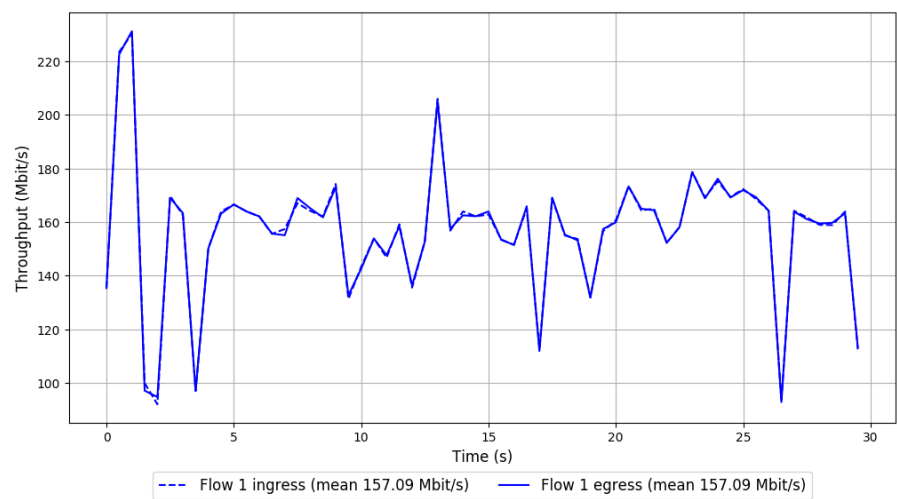
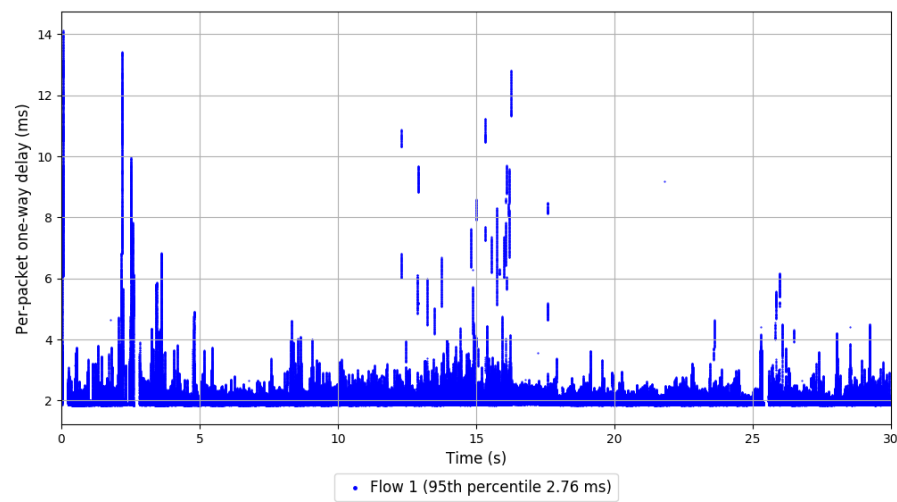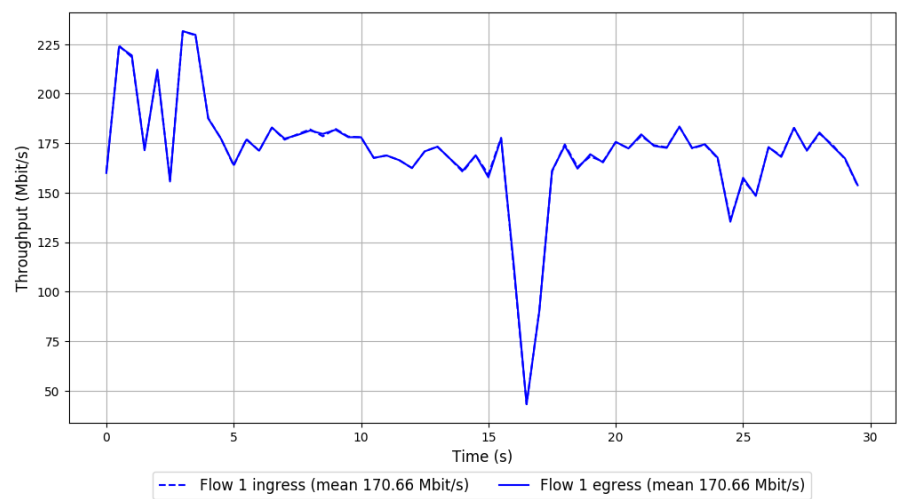Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2017-09-03 04:46:47
End at: 2017-09-03 04:47:17
Local clock offset: -3.35 ms
Remote clock offset: -0.026 ms


# Below is generated by plot.py at 2017-09-03 10:04:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 170.66 Mbit/s
95th percentile per-packet one-way delay: 2.763 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.66 Mbit/s
95th percentile per-packet one-way delay: 2.763 ms
Loss rate: 0.00%
```

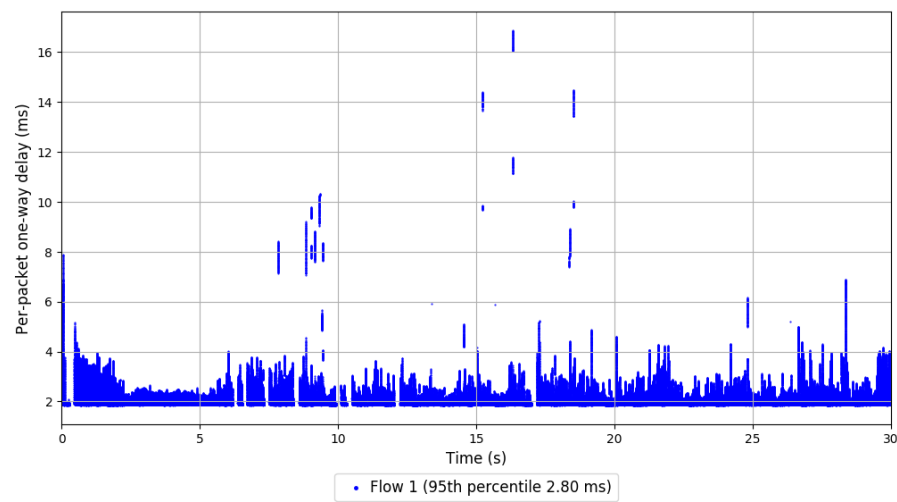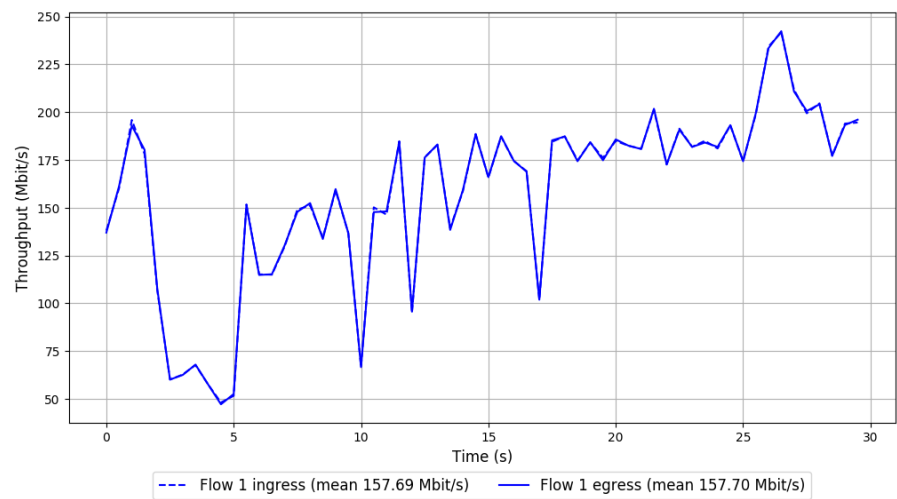## Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2017-09-03 05:05:54
End at: 2017-09-03 05:06:24
Local clock offset: -3.162 ms
Remote clock offset: -0.033 ms


# Below is generated by plot.py at 2017-09-03 10:04:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.70 Mbit/s
95th percentile per-packet one-way delay: 2.797 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 157.70 Mbit/s
95th percentile per-packet one-way delay: 2.797 ms
Loss rate: 0.00%
```

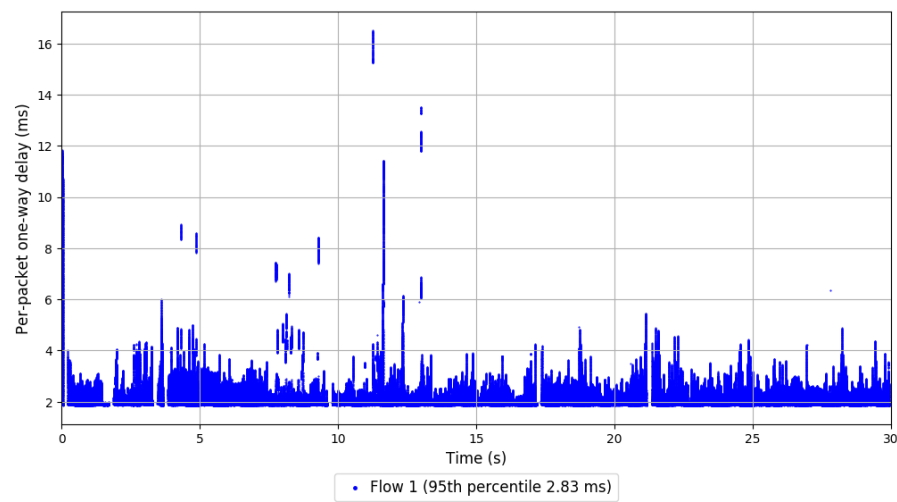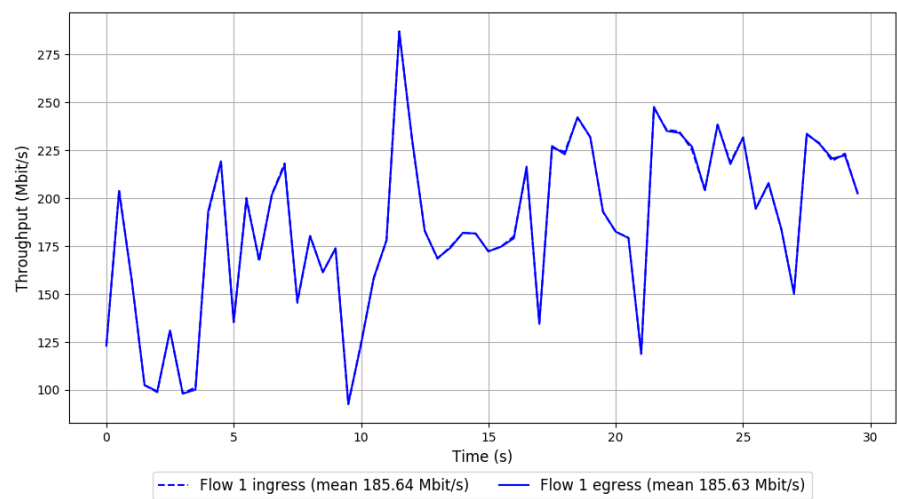Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2017-09-03 05:24:58
End at: 2017-09-03 05:25:28
Local clock offset: -3.063 ms
Remote clock offset: -0.079 ms


# Below is generated by plot.py at 2017-09-03 10:04:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.63 Mbit/s
95th percentile per-packet one-way delay: 2.827 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 185.63 Mbit/s
95th percentile per-packet one-way delay: 2.827 ms
Loss rate: 0.01%
```

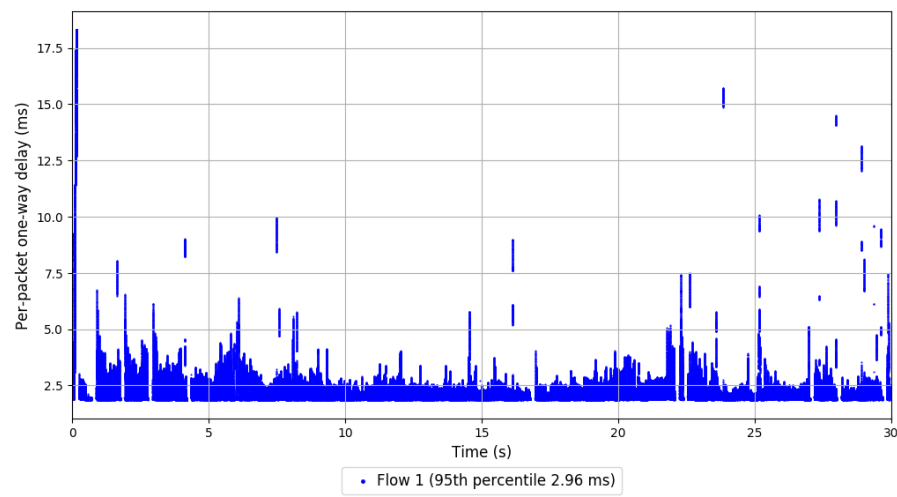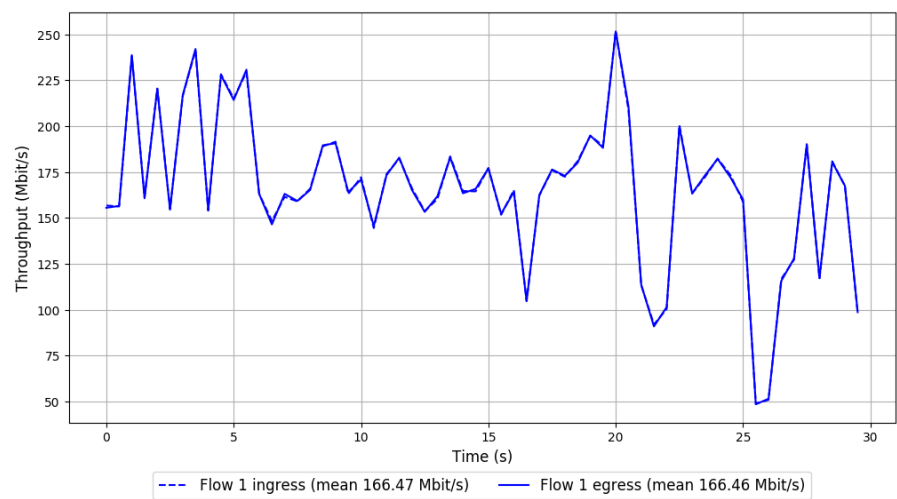Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: 2017-09-03 05:44:04
End at: 2017-09-03 05:44:34
Local clock offset: -3.01 ms
Remote clock offset: -0.142 ms


# Below is generated by plot.py at 2017-09-03 10:04:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 166.46 Mbit/s
95th percentile per-packet one-way delay: 2.964 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 166.46 Mbit/s
95th percentile per-packet one-way delay: 2.964 ms
Loss rate: 0.00%
```

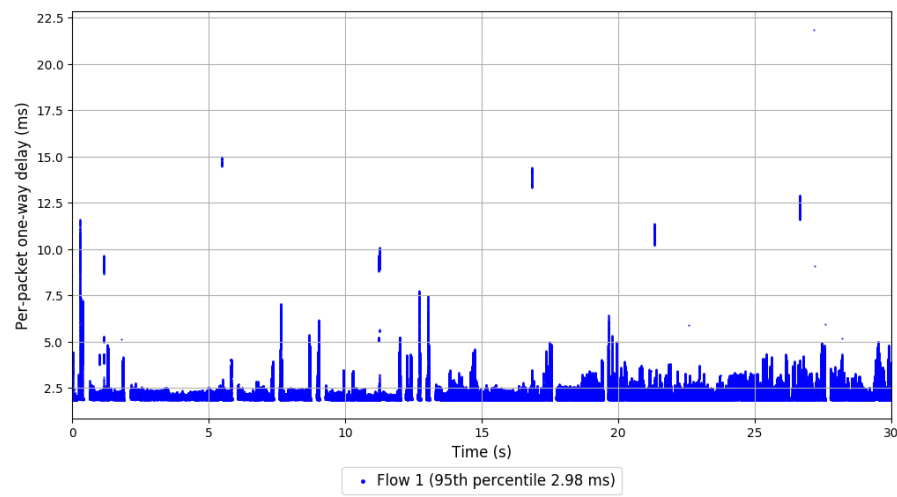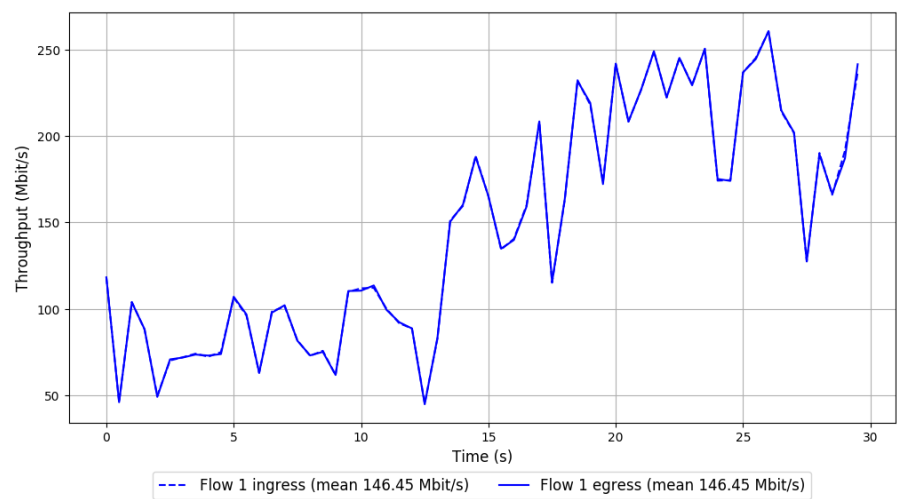Run 6: Report of Verus — Data Link

```
Run 7: Statistics of Verus

Start at: 2017-09-03 06:03:29
End at: 2017-09-03 06:03:59
Local clock offset: -2.766 ms
Remote clock offset: -0.068 ms


# Below is generated by plot.py at 2017-09-03 10:05:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 146.45 Mbit/s
95th percentile per-packet one-way delay: 2.985 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 146.45 Mbit/s
95th percentile per-packet one-way delay: 2.985 ms
Loss rate: 0.00%
```

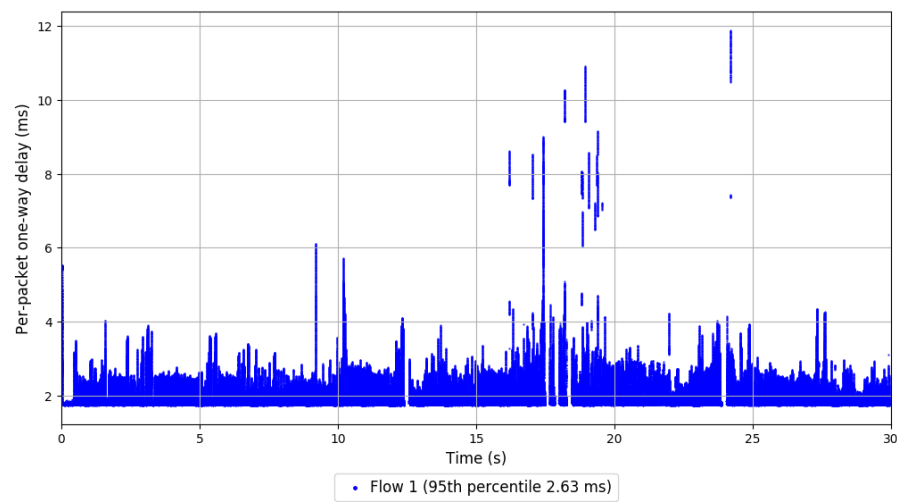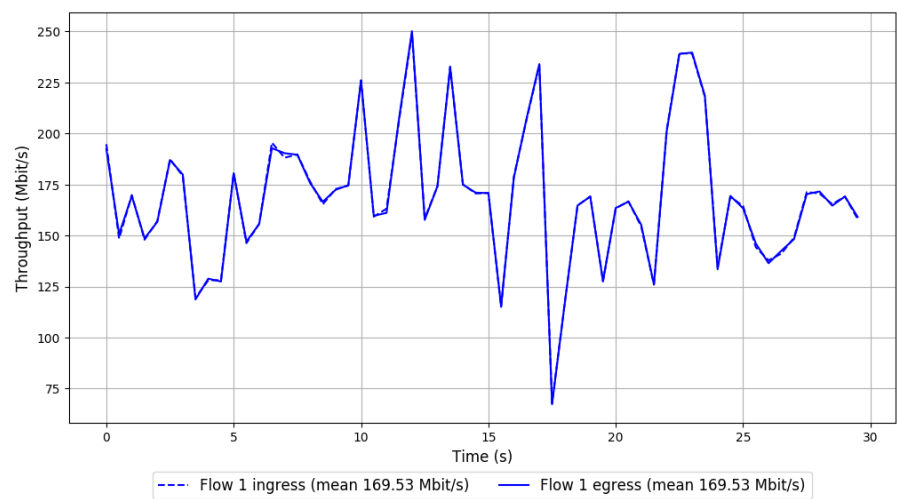Run 7: Report of Verus — Data Link

```
Run 8: Statistics of Verus

Start at: 2017-09-03 06:22:43
End at: 2017-09-03 06:23:13
Local clock offset: -2.636 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2017-09-03 10:05:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.53 Mbit/s
95th percentile per-packet one-way delay: 2.633 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.53 Mbit/s
95th percentile per-packet one-way delay: 2.633 ms
Loss rate: 0.00%
```

Run 8: Report of Verus — Data Link

Flow 1 ingress (mean 169.53 Mbit/s)   Flow 1 egress (mean 169.53 Mbit/s)

Flow 1 (95th percentile 2.63 ms)

279

```
Run 9: Statistics of Verus

Start at: 2017-09-03 06:41:56
End at: 2017-09-03 06:42:26
Local clock offset: -2.642 ms
Remote clock offset: 0.06 ms


# Below is generated by plot.py at 2017-09-03 10:05:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.85 Mbit/s
95th percentile per-packet one-way delay: 3.369 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.85 Mbit/s
95th percentile per-packet one-way delay: 3.369 ms
Loss rate: 0.00%
```
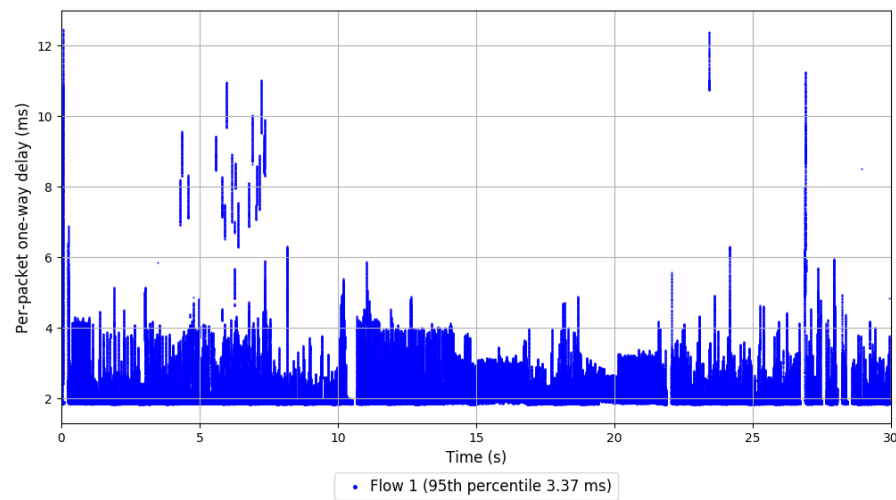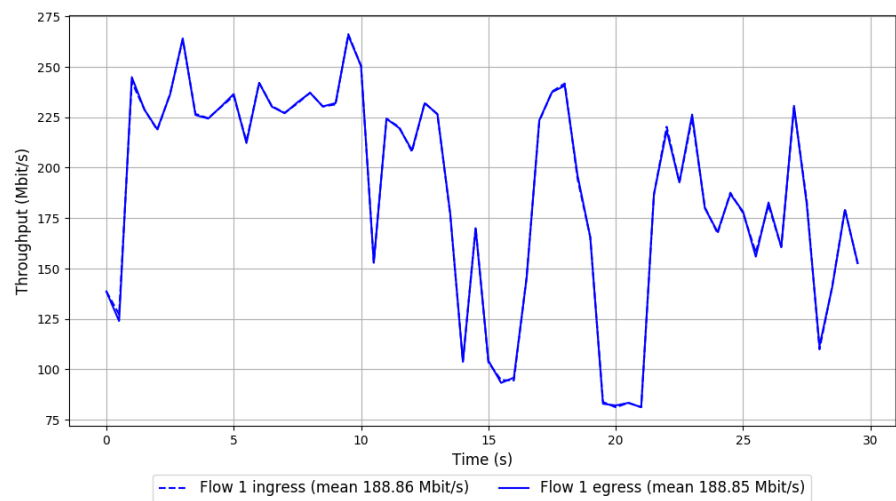
Run 9: Report of Verus — Data Link

Flow 1 ingress (mean 188.86 Mbit/s) --- Flow 1 egress (mean 188.85 Mbit/s)

• Flow 1 (95th percentile 3.37 ms)

```
Run 10: Statistics of Verus

Start at: 2017-09-03 07:01:13
End at: 2017-09-03 07:01:43
Local clock offset: -2.75 ms
Remote clock offset: 0.011 ms


# Below is generated by plot.py at 2017-09-03 10:05:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.26 Mbit/s
95th percentile per-packet one-way delay: 2.721 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.26 Mbit/s
95th percentile per-packet one-way delay: 2.721 ms
Loss rate: 0.00%
```
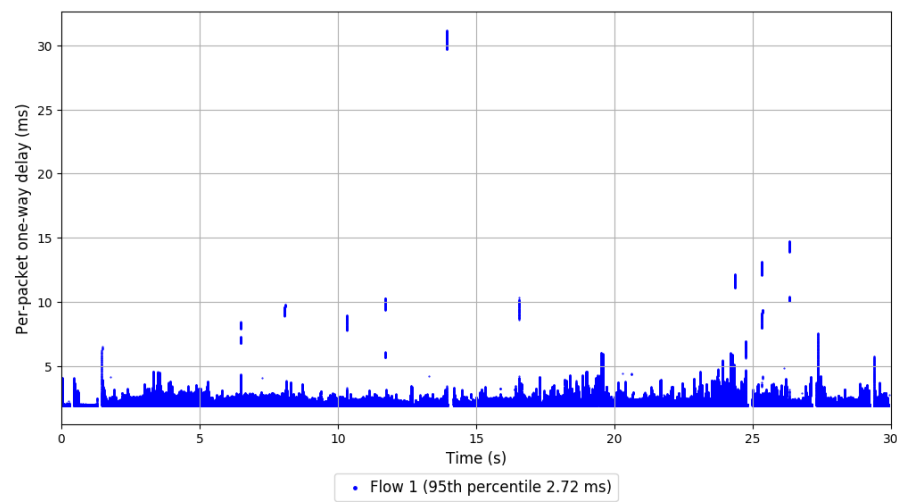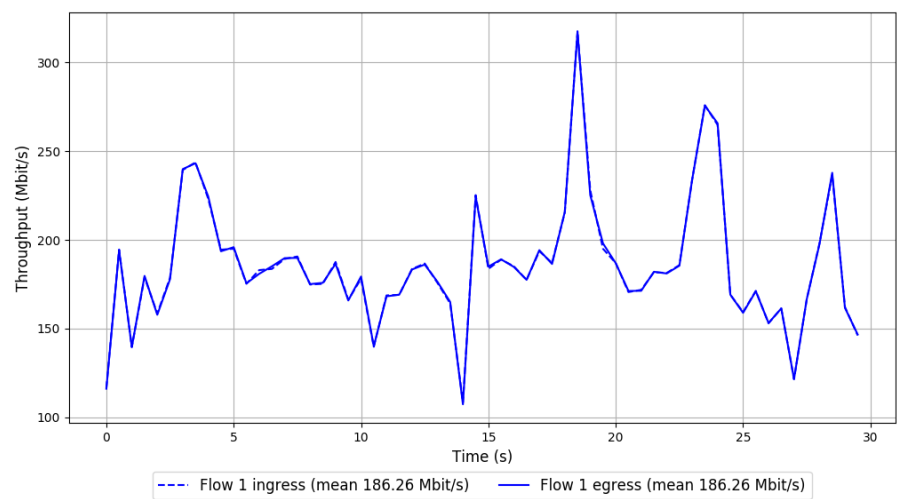
Run 10: Report of Verus — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2017-09-03 04:20:17
End at: 2017-09-03 04:20:47
Local clock offset: -3.567 ms
Remote clock offset: 0.157 ms


# Below is generated by plot.py at 2017-09-03 10:05:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.290 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.290 ms
Loss rate: 0.00%
```
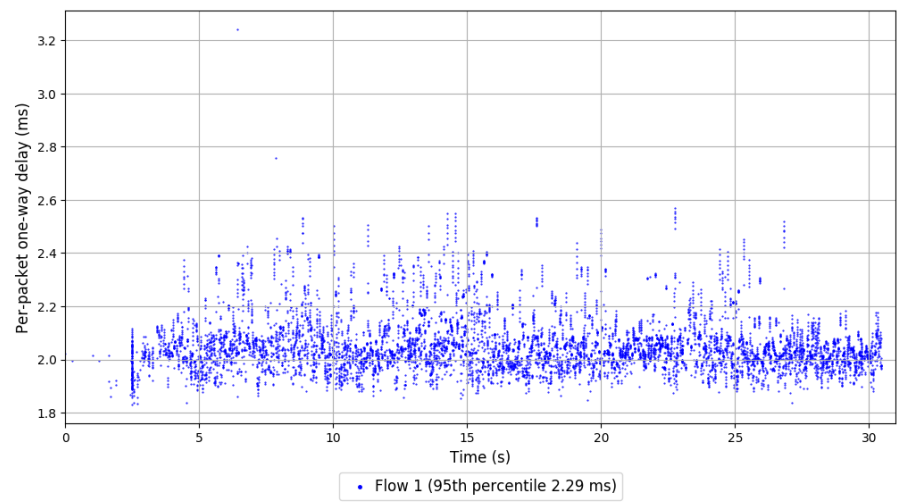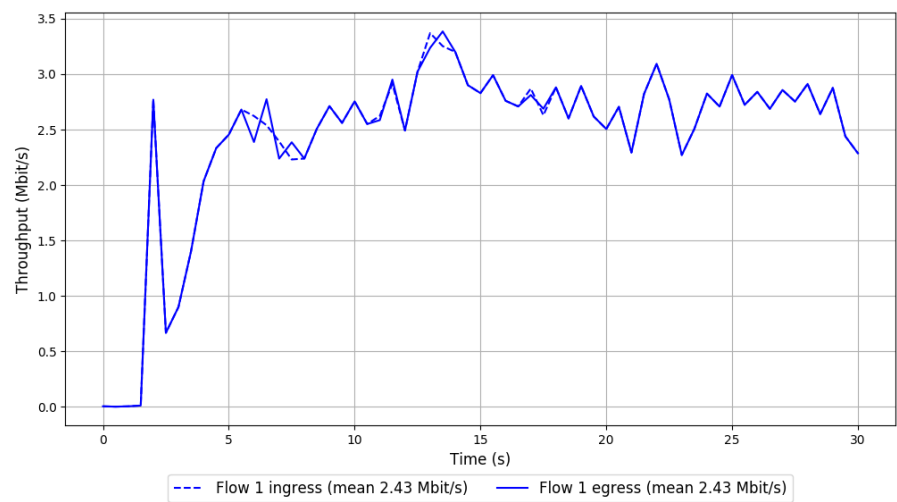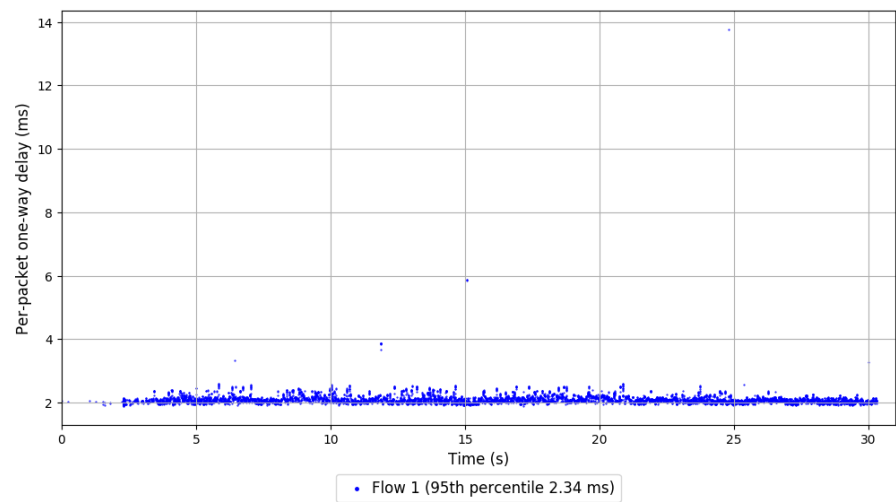
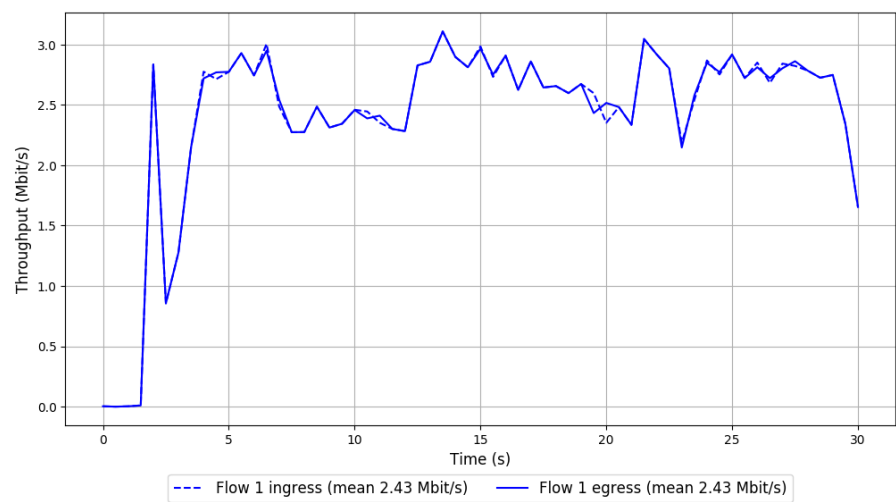Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2017-09-03 04:39:25
End at: 2017-09-03 04:39:55
Local clock offset: -3.512 ms
Remote clock offset: -0.003 ms


# Below is generated by plot.py at 2017-09-03 10:05:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.336 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.336 ms
Loss rate: 0.00%
```
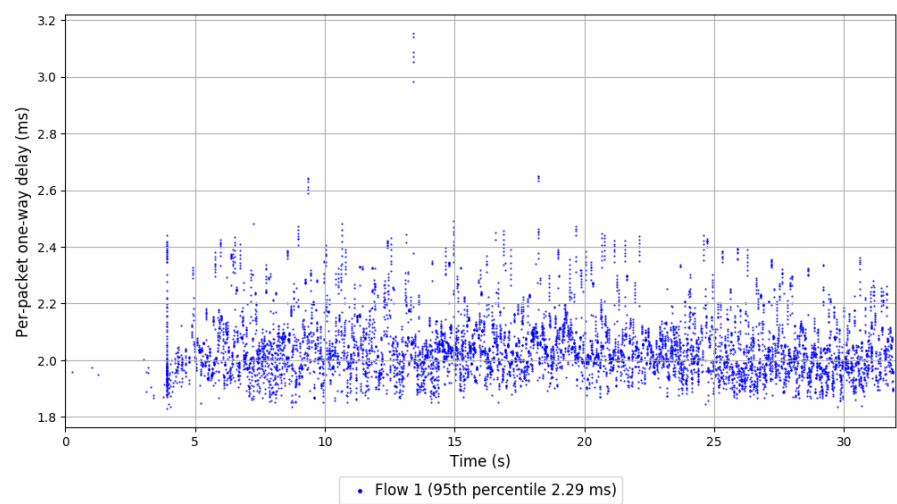
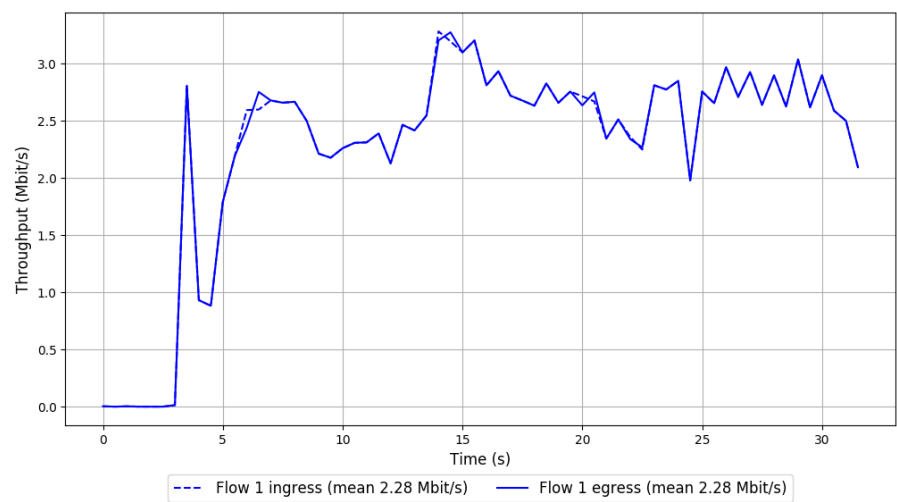Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2017-09-03 04:58:21
End at: 2017-09-03 04:58:51
Local clock offset: -3.243 ms
Remote clock offset: -0.042 ms


# Below is generated by plot.py at 2017-09-03 10:05:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 2.294 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 2.294 ms
Loss rate: 0.00%
```

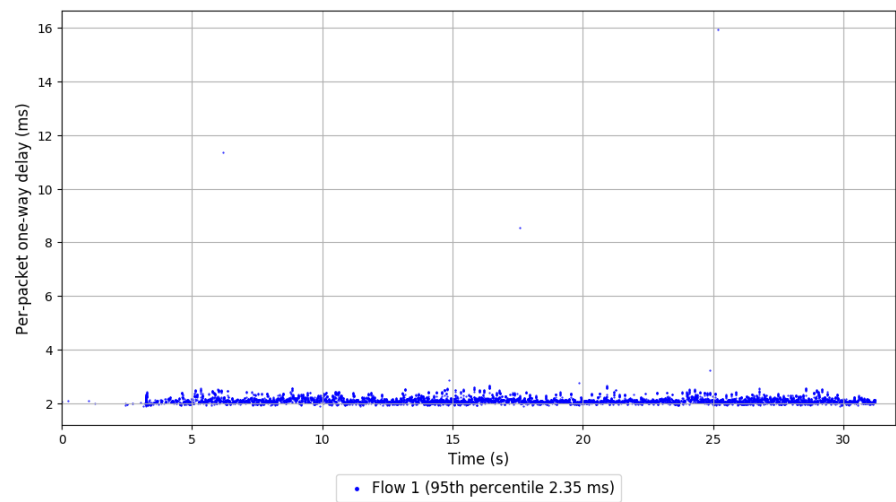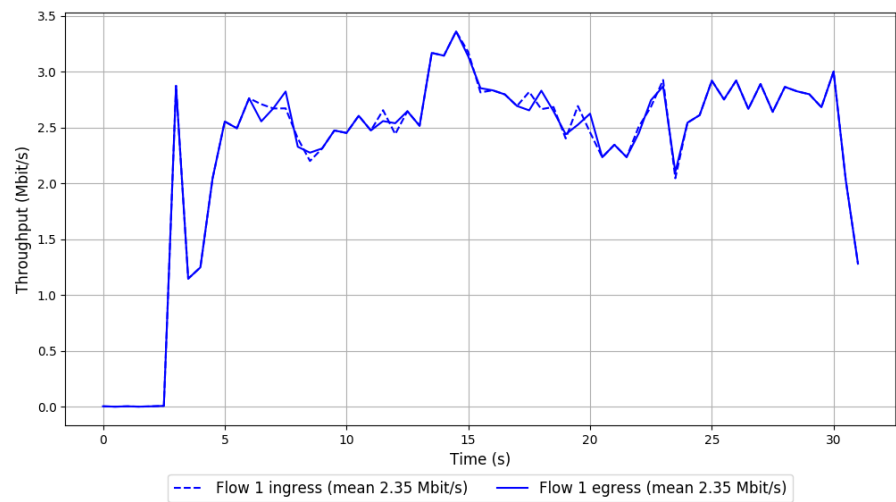Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2017-09-03 05:17:24
End at: 2017-09-03 05:17:54
Local clock offset: -3.191 ms
Remote clock offset: -0.107 ms


# Below is generated by plot.py at 2017-09-03 10:05:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.355 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.355 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.35 Mbit/s)   Flow 1 egress (mean 2.35 Mbit/s)
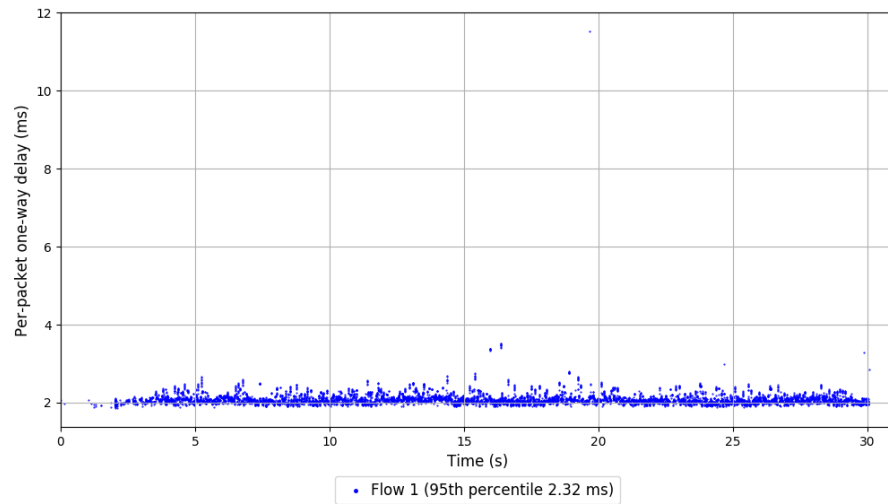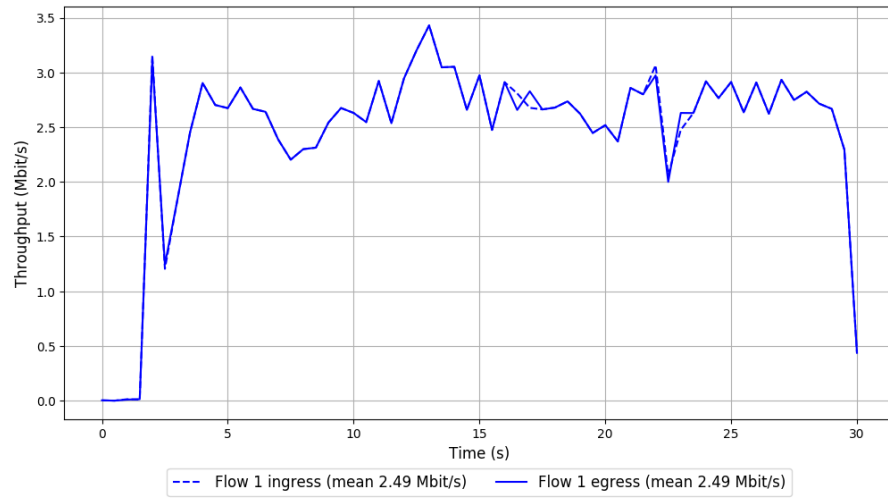

Flow 1 (95th percentile 2.35 ms)

```
Run 5: Statistics of WebRTC media

Start at: 2017-09-03 05:36:28
End at: 2017-09-03 05:36:58
Local clock offset: -3.008 ms
Remote clock offset: -0.047 ms


# Below is generated by plot.py at 2017-09-03 10:05:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 2.316 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 2.316 ms
Loss rate: 0.00%
```

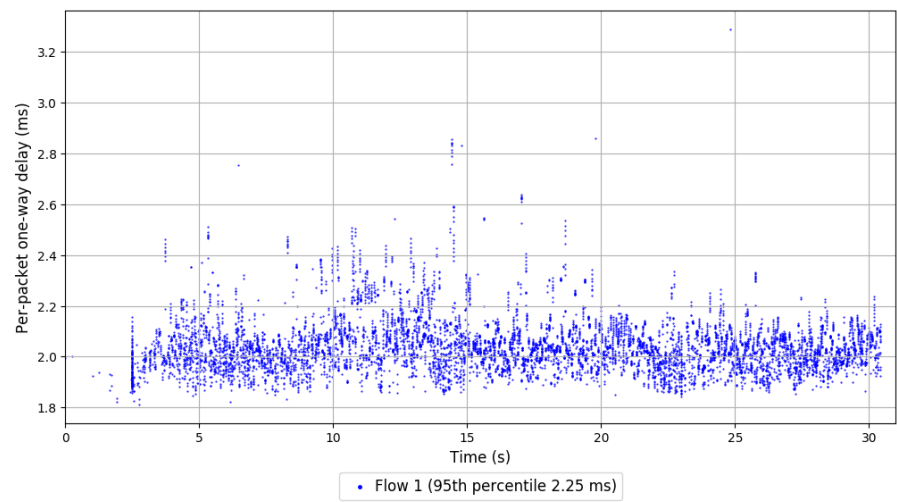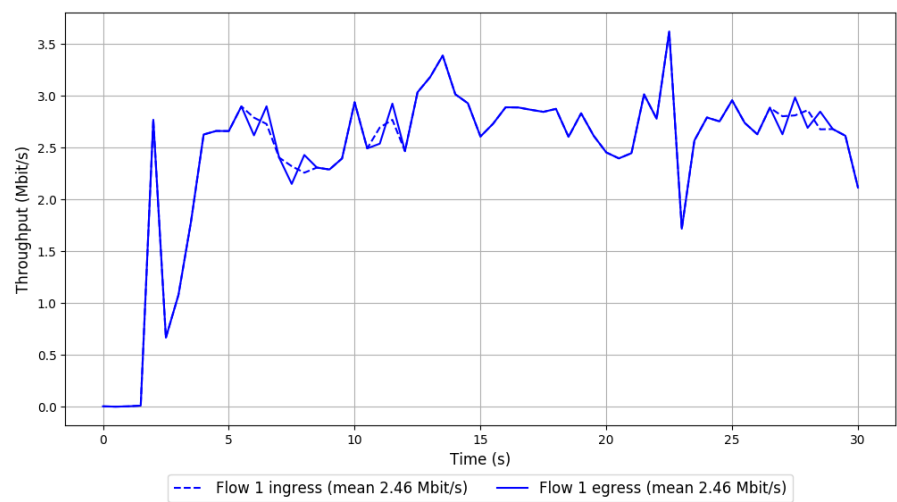Run 5: Report of WebRTC media — Data Link

```
Run 6: Statistics of WebRTC media

Start at: 2017-09-03 05:55:48
End at: 2017-09-03 05:56:18
Local clock offset: -2.872 ms
Remote clock offset: -0.141 ms


# Below is generated by plot.py at 2017-09-03 10:05:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 2.249 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 2.249 ms
Loss rate: 0.00%
```

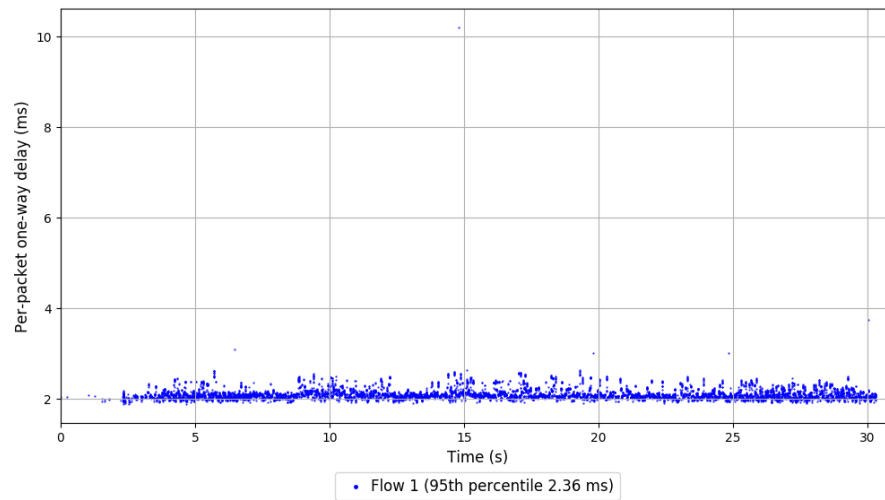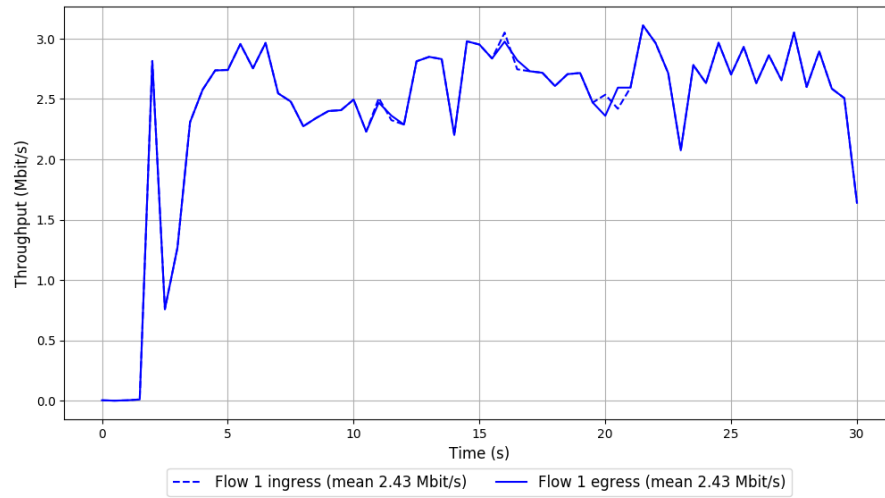Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2017-09-03 06:15:06
End at: 2017-09-03 06:15:36
Local clock offset: -2.76 ms
Remote clock offset: -0.043 ms


# Below is generated by plot.py at 2017-09-03 10:05:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.359 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.359 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.43 Mbit/s) --- Flow 1 egress (mean 2.43 Mbit/s)

Flow 1 (95th percentile 2.36 ms)

```
Run 8: Statistics of WebRTC media

Start at: 2017-09-03 06:34:20
End at: 2017-09-03 06:34:50
Local clock offset: -2.601 ms
Remote clock offset: 0.042 ms


# Below is generated by plot.py at 2017-09-03 10:05:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.295 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 2.295 ms
Loss rate: 0.00%
```
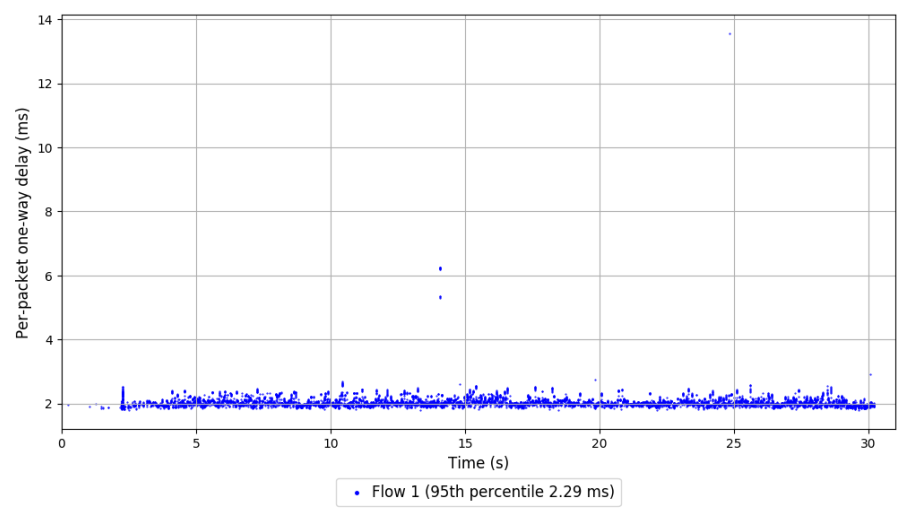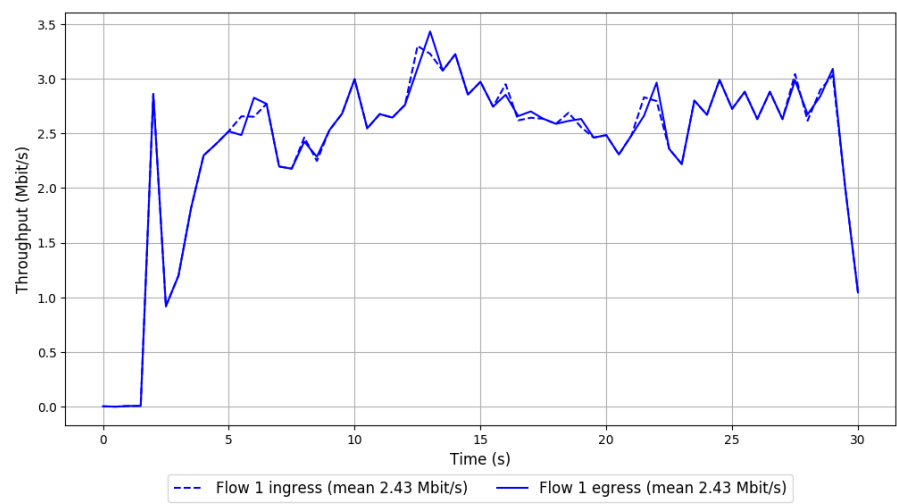
Run 8: Report of WebRTC media — Data Link

```
Run 9: Statistics of WebRTC media

Start at: 2017-09-03 06:53:38
End at: 2017-09-03 06:54:08
Local clock offset: -2.719 ms
Remote clock offset: 0.088 ms


# Below is generated by plot.py at 2017-09-03 10:05:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 2.359 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 2.359 ms
Loss rate: 0.00%
```
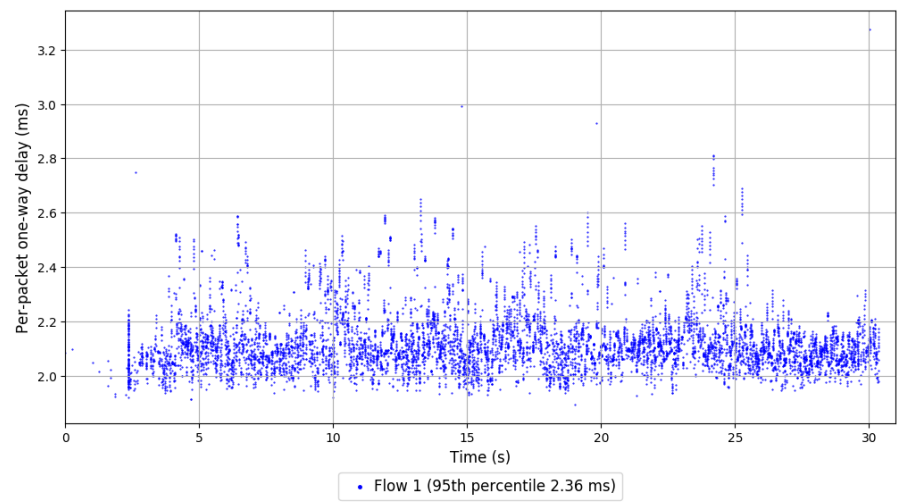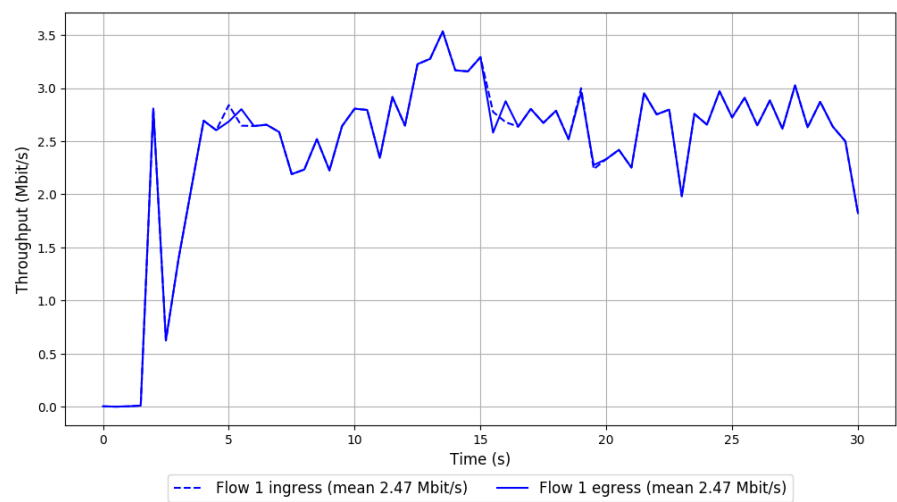
Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: 2017-09-03 07:12:54
End at: 2017-09-03 07:13:24
Local clock offset: -2.369 ms
Remote clock offset: -0.068 ms


# Below is generated by plot.py at 2017-09-03 10:05:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 2.248 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 2.248 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link