Pantheon Report

Generated at 2017-08-31 07:13:44 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

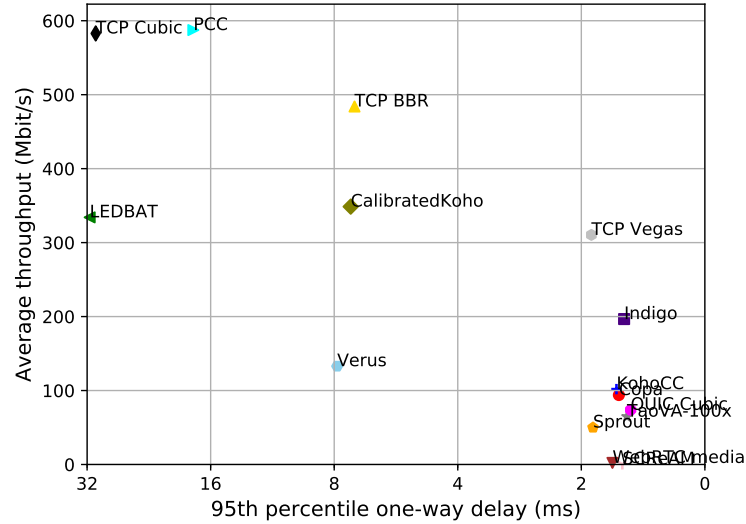Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

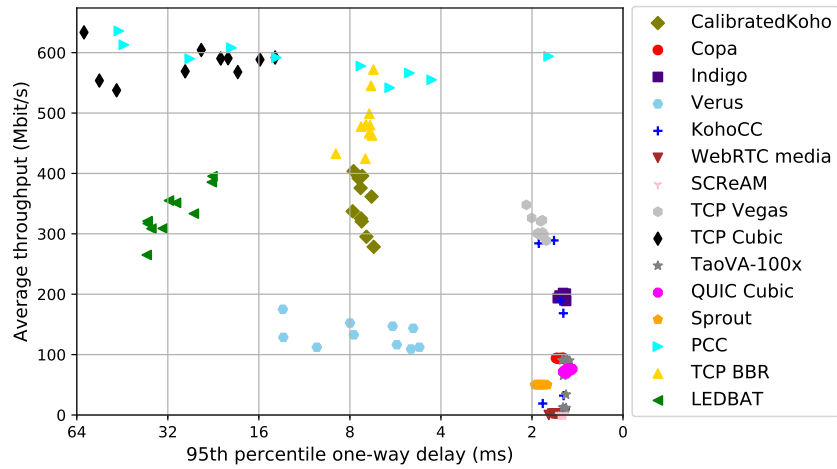NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: master @ 5ea146acdebe79f5b9acfb2d9044554a7d2582ea
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ 7ddb4adf480966042c0438984cb22a298bfa635f
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 Brazil Ethernet to AWS Brazil 1 Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)

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

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	484.04	7.14	0.03
CalibratedKoho	10	348.65	7.29	0.02
Copa	9	93.90	1.39	0.01
TCP Cubic	10	582.81	30.50	0.04
Indigo	10	196.63	1.31	0.01
KohoCC	10	101.93	1.43	0.01
LEDBAT	10	334.12	31.55	0.07
PCC	10	587.37	17.63	0.40
QUIC Cubic	10	73.90	1.20	0.01
SCReAM	10	0.22	1.34	0.00
Sprout	10	50.00	1.81	0.00
TaoVA-100x	10	64.68	1.26	0.02
TCP Vegas	10	310.41	1.84	0.01
Verus	10	132.93	7.87	0.02
WebRTC media	10	2.13	1.50	0.01

```
Run 1: Statistics of TCP BBR

Start at: 2017-08-30 22:46:39
End at: 2017-08-30 22:47:09
Local clock offset: -0.546 ms
Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2017-08-31 06:36:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 545.08 Mbit/s
95th percentile per-packet one-way delay: 6.810 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 545.08 Mbit/s
95th percentile per-packet one-way delay: 6.810 ms
Loss rate: 0.03%
```
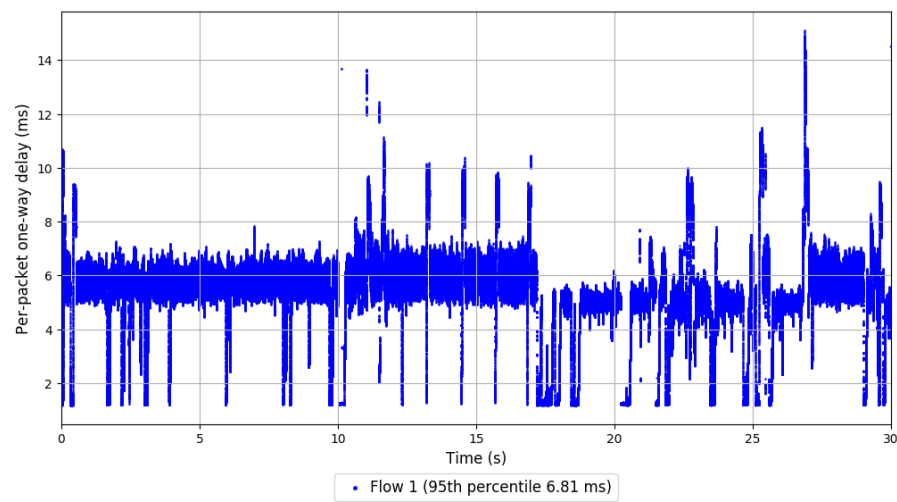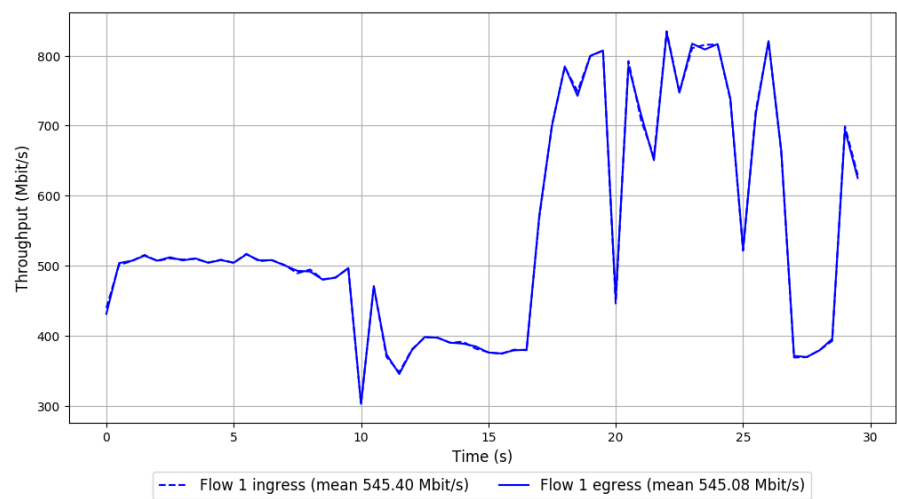
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2017-08-30 23:05:41
End at: 2017-08-30 23:06:11
Local clock offset: -0.706 ms
Remote clock offset: 0.257 ms


# Below is generated by plot.py at 2017-08-31 06:36:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 480.71 Mbit/s
95th percentile per-packet one-way delay: 7.087 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 480.71 Mbit/s
95th percentile per-packet one-way delay: 7.087 ms
Loss rate: 0.01%
```
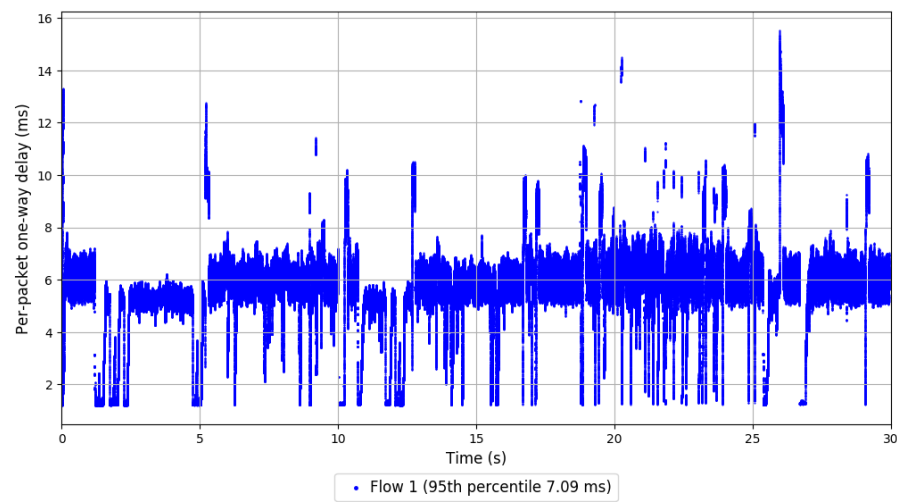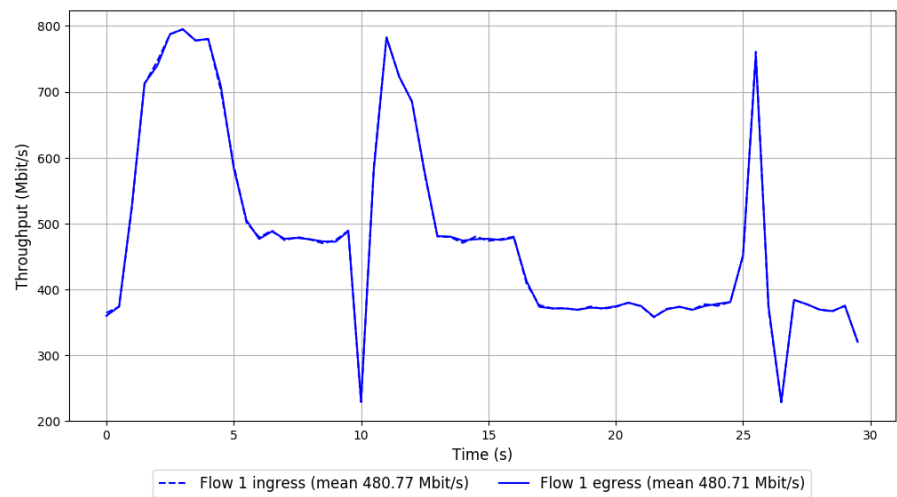
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2017-08-30 23:24:32
End at: 2017-08-30 23:25:02
Local clock offset: -0.531 ms
Remote clock offset: 0.608 ms


# Below is generated by plot.py at 2017-08-31 06:37:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 498.91 Mbit/s
95th percentile per-packet one-way delay: 6.901 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 498.91 Mbit/s
95th percentile per-packet one-way delay: 6.901 ms
Loss rate: 0.03%
```
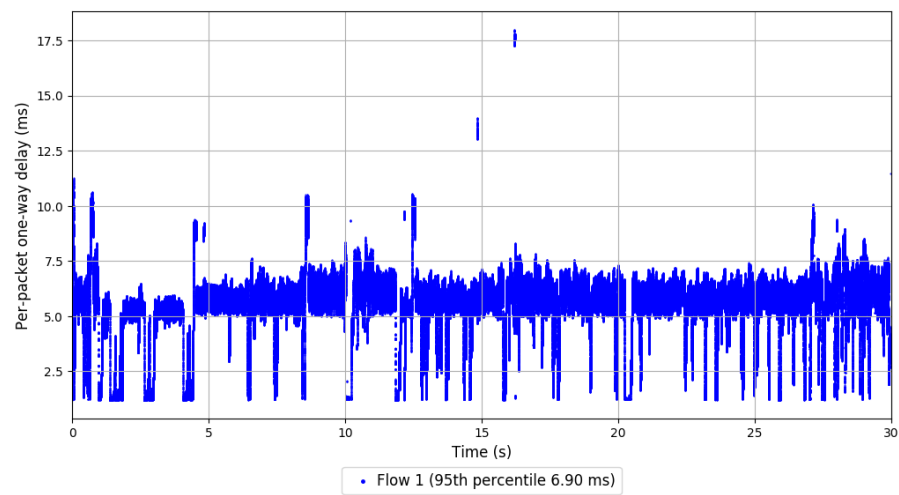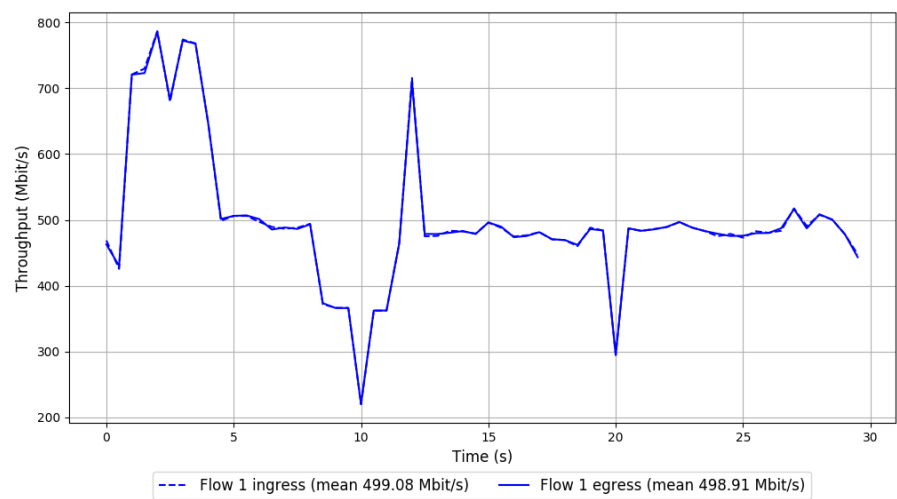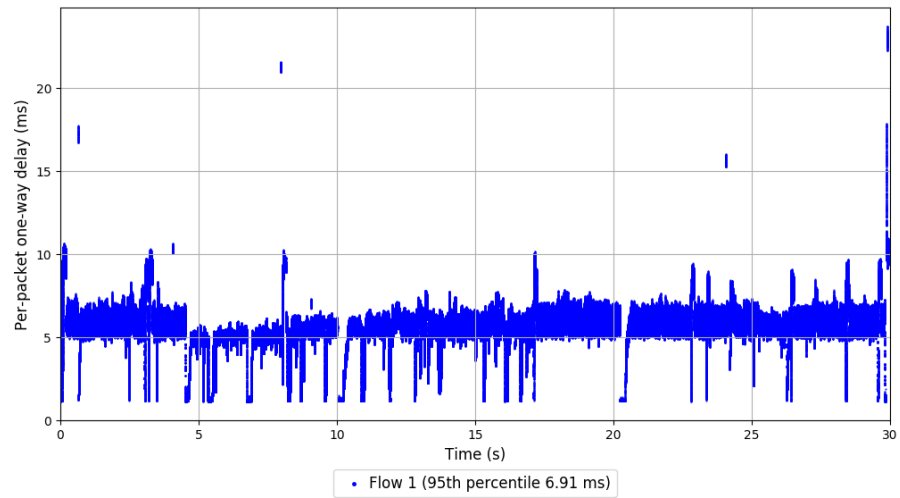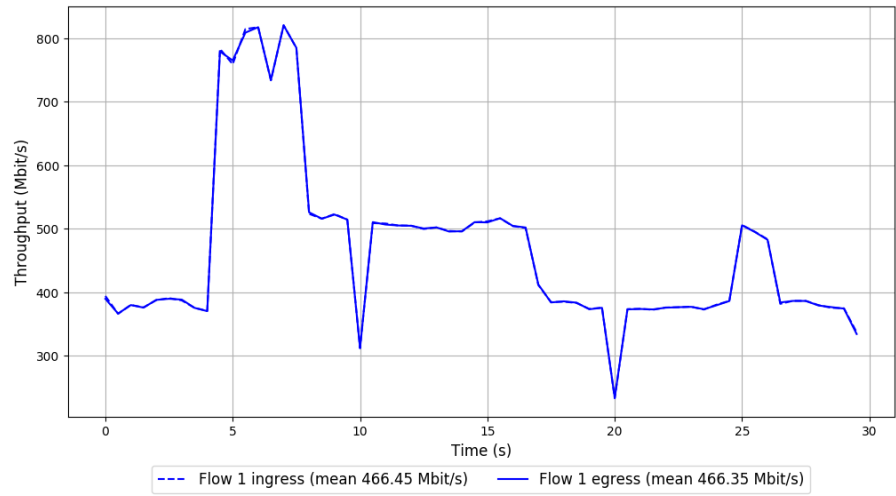
Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 499.08 Mbit/s) Flow 1 egress (mean 498.91 Mbit/s)

Flow 1 (95th percentile 6.90 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2017-08-30 23:43:21
End at: 2017-08-30 23:43:51
Local clock offset: -0.421 ms
Remote clock offset: 0.887 ms

# Below is generated by plot.py at 2017-08-31 06:37:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 466.35 Mbit/s
95th percentile per-packet one-way delay: 6.913 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 466.35 Mbit/s
95th percentile per-packet one-way delay: 6.913 ms
Loss rate: 0.03%
```

Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2017-08-31 00:02:05
End at: 2017-08-31 00:02:35
Local clock offset: -0.616 ms
Remote clock offset: 0.938 ms


# Below is generated by plot.py at 2017-08-31 06:38:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 462.86 Mbit/s
95th percentile per-packet one-way delay: 6.759 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 462.86 Mbit/s
95th percentile per-packet one-way delay: 6.759 ms
Loss rate: 0.04%
```
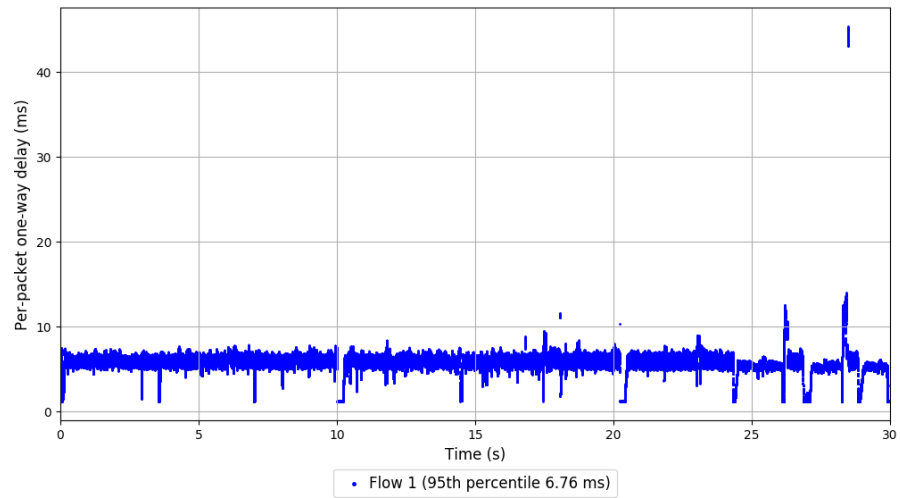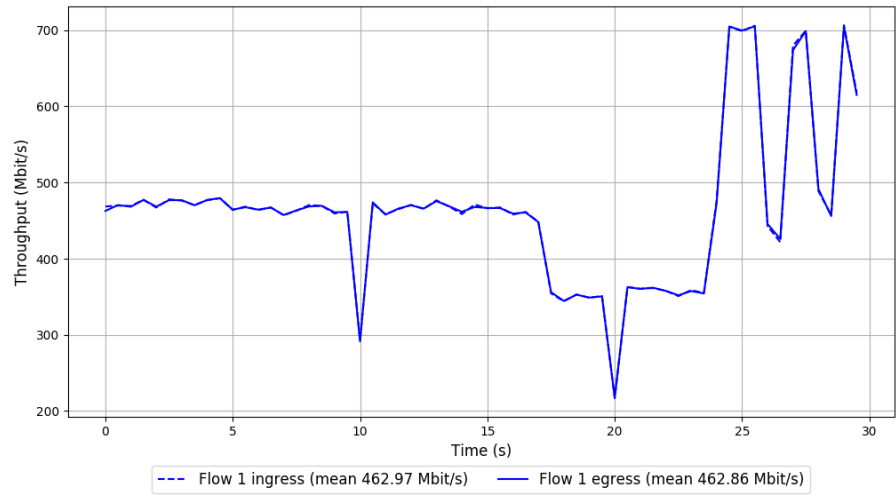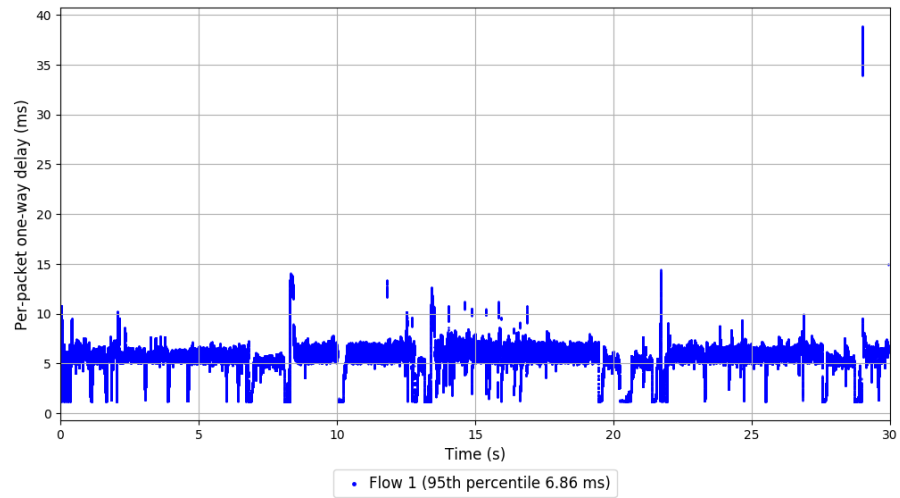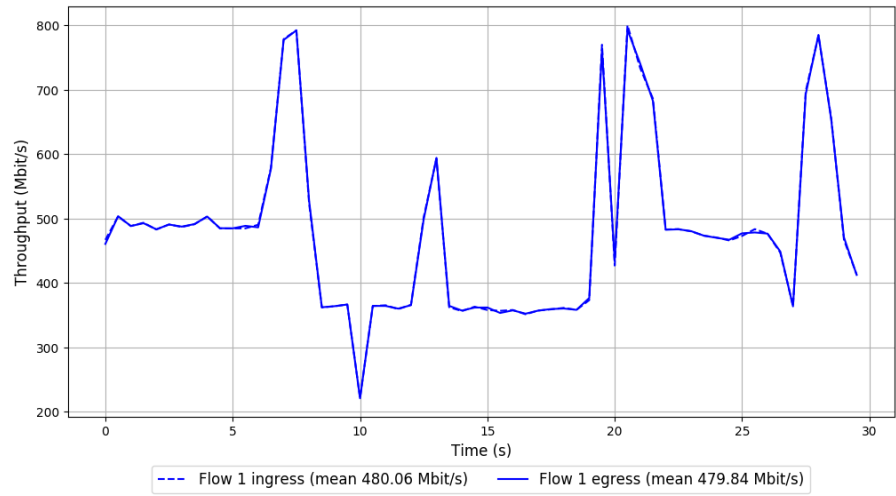
Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 462.97 Mbit/s)   Flow 1 egress (mean 462.86 Mbit/s)

Flow 1 (95th percentile 6.76 ms)

13

```
Run 6: Statistics of TCP BBR

Start at: 2017-08-31 00:20:47
End at: 2017-08-31 00:21:17
Local clock offset: -0.657 ms
Remote clock offset: 0.966 ms


# Below is generated by plot.py at 2017-08-31 06:38:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 479.84 Mbit/s
95th percentile per-packet one-way delay: 6.862 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 479.84 Mbit/s
95th percentile per-packet one-way delay: 6.862 ms
Loss rate: 0.03%
```

Run 6: Report of TCP BBR — Data Link

```
Run 7: Statistics of TCP BBR

Start at: 2017-08-31 00:39:24
End at: 2017-08-31 00:39:54
Local clock offset: -0.805 ms
Remote clock offset: 1.046 ms


# Below is generated by plot.py at 2017-08-31 06:39:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 477.61 Mbit/s
95th percentile per-packet one-way delay: 7.350 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 477.61 Mbit/s
95th percentile per-packet one-way delay: 7.350 ms
Loss rate: 0.03%
```
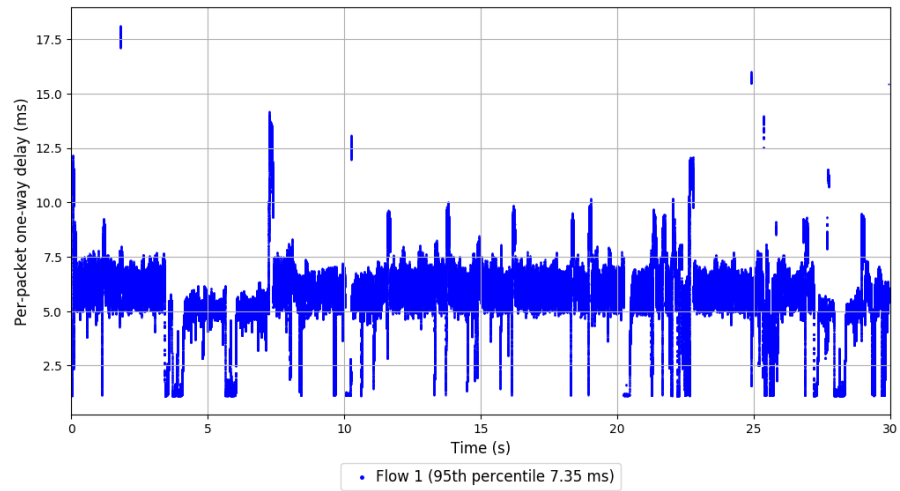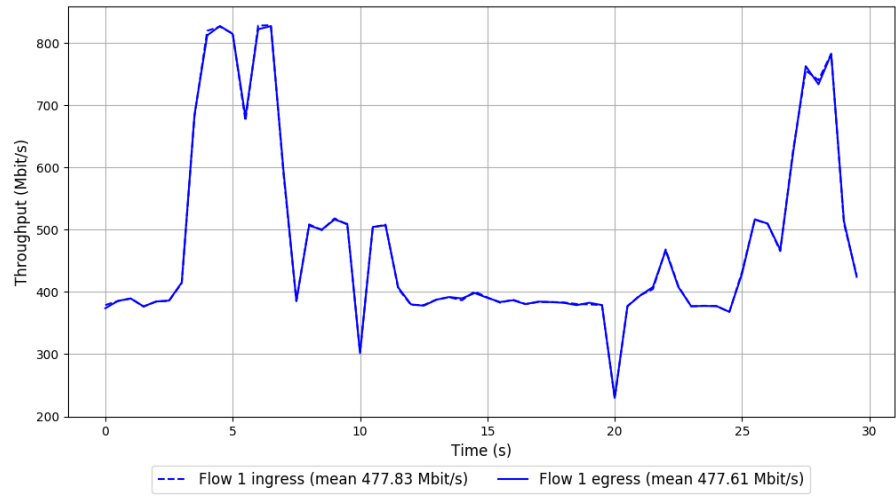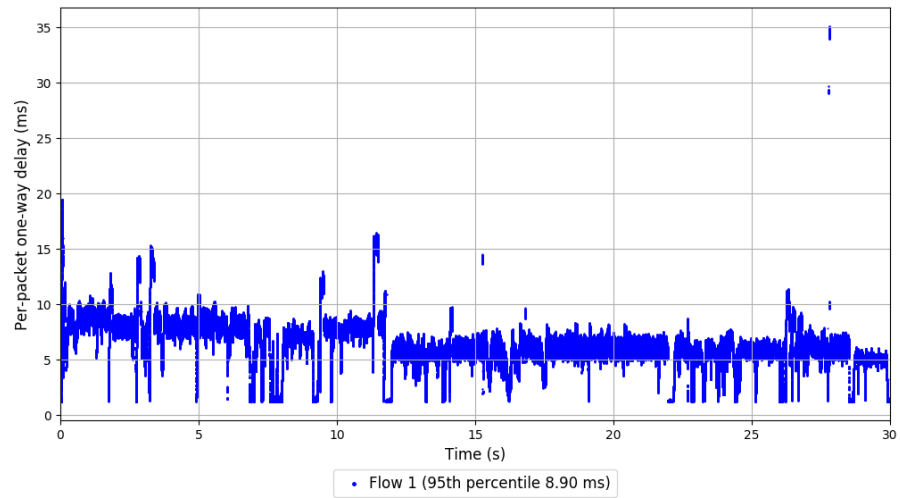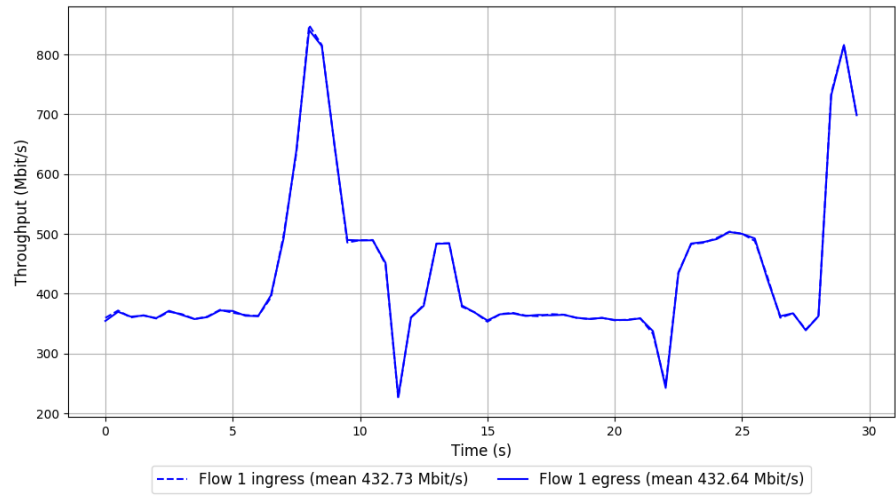
Run 7: Report of TCP BBR — Data Link

```
Run 8: Statistics of TCP BBR

Start at: 2017-08-31 00:58:09
End at: 2017-08-31 00:58:39
Local clock offset: -0.79 ms
Remote clock offset: 0.841 ms


# Below is generated by plot.py at 2017-08-31 06:39:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 432.64 Mbit/s
95th percentile per-packet one-way delay: 8.903 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 432.64 Mbit/s
95th percentile per-packet one-way delay: 8.903 ms
Loss rate: 0.03%
```
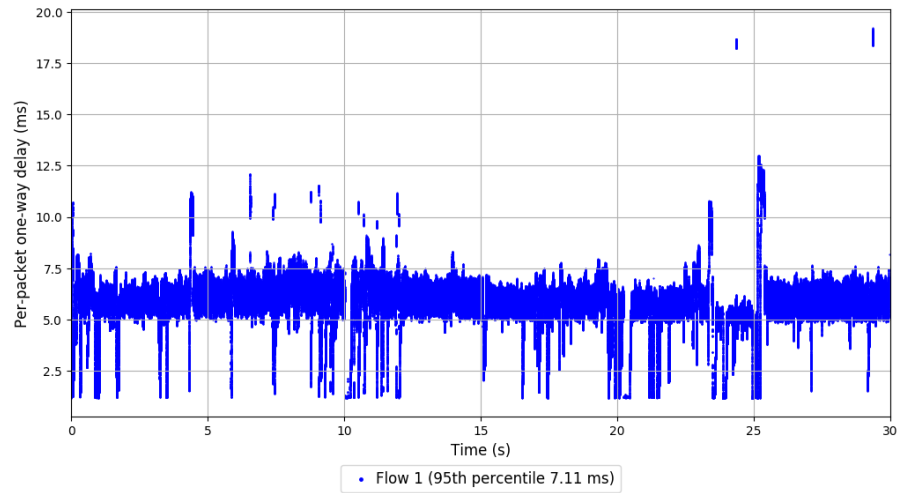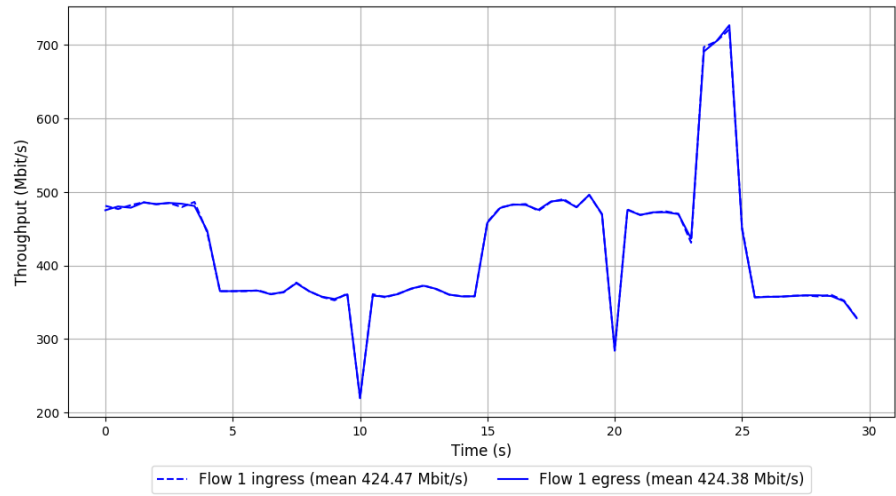
Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 432.73 Mbit/s)   Flow 1 egress (mean 432.64 Mbit/s)

Flow 1 (95th percentile 8.90 ms)

```
Run 9: Statistics of TCP BBR

Start at: 2017-08-31 01:16:53
End at: 2017-08-31 01:17:23
Local clock offset: -0.687 ms
Remote clock offset: 0.796 ms


# Below is generated by plot.py at 2017-08-31 06:40:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 424.38 Mbit/s
95th percentile per-packet one-way delay: 7.111 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 424.38 Mbit/s
95th percentile per-packet one-way delay: 7.111 ms
Loss rate: 0.02%
```
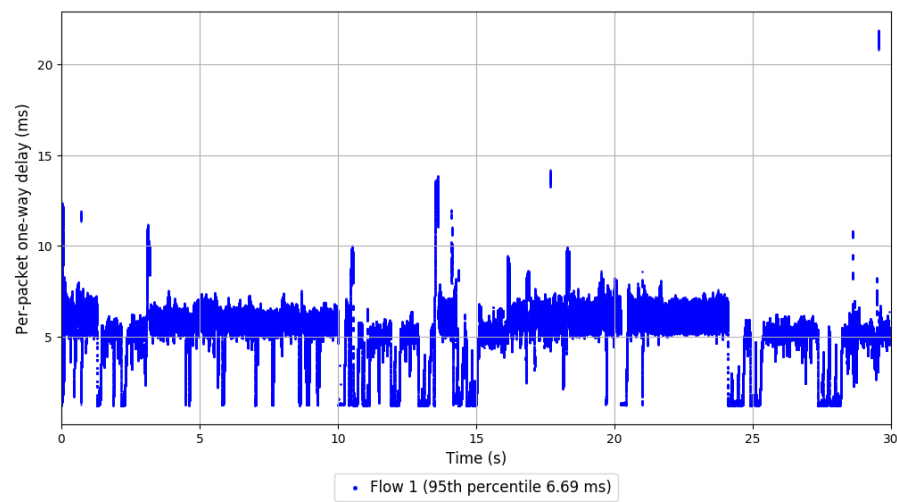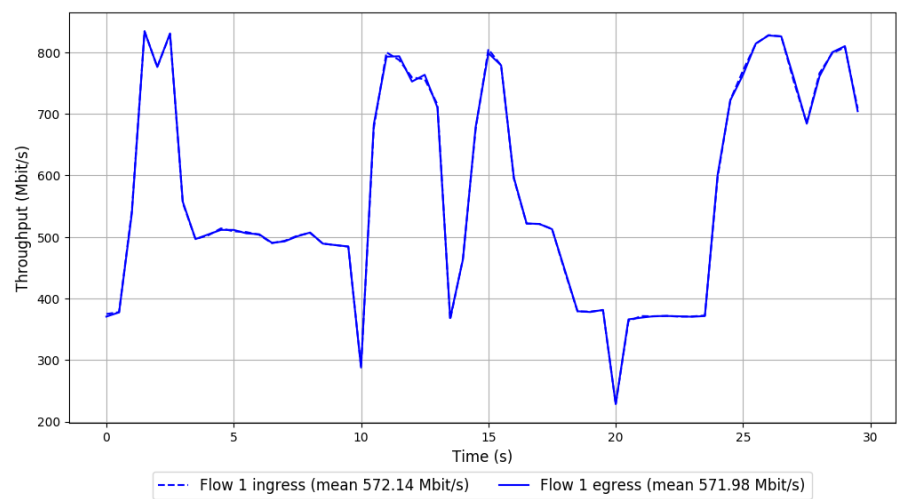
Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 424.47 Mbit/s)   Flow 1 egress (mean 424.38 Mbit/s)

Flow 1 (95th percentile 7.11 ms)

```
Run 10: Statistics of TCP BBR

Start at: 2017-08-31 01:35:45
End at: 2017-08-31 01:36:15
Local clock offset: -0.661 ms
Remote clock offset: 0.437 ms

# Below is generated by plot.py at 2017-08-31 06:40:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 571.98 Mbit/s
95th percentile per-packet one-way delay: 6.687 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 571.98 Mbit/s
95th percentile per-packet one-way delay: 6.687 ms
Loss rate: 0.03%
```

Run 10: Report of TCP BBR — Data Link

```
Run 1: Statistics of CalibratedKoho

Start at: 2017-08-30 22:53:55
End at: 2017-08-30 22:54:25
Local clock offset: -0.582 ms
Remote clock offset: 0.161 ms

# Below is generated by plot.py at 2017-08-31 06:41:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.46 Mbit/s
95th percentile per-packet one-way delay: 6.672 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 278.46 Mbit/s
95th percentile per-packet one-way delay: 6.672 ms
Loss rate: 0.02%
```
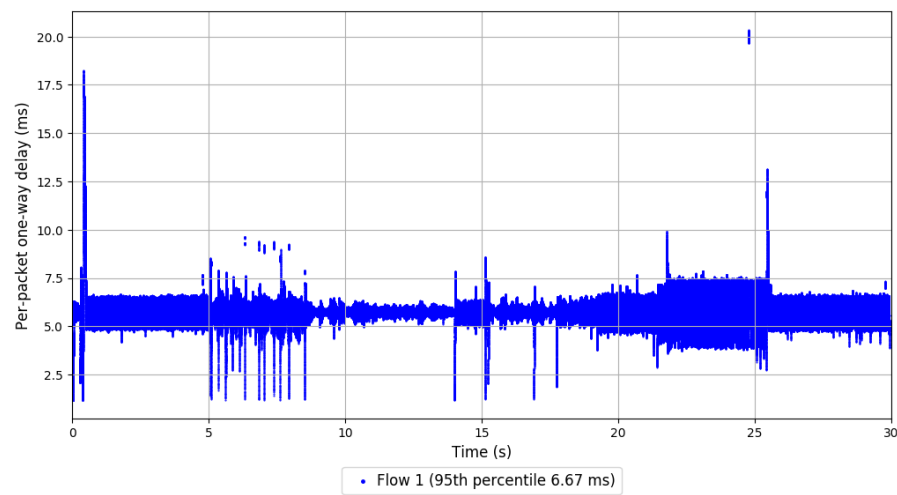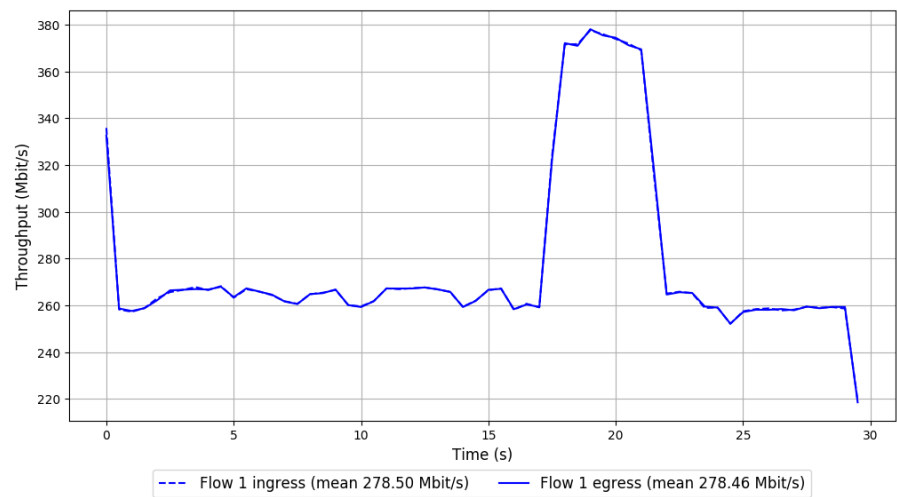
Run 1: Report of CalibratedKoho — Data Link

```
Run 2: Statistics of CalibratedKoho

Start at: 2017-08-30 23:12:53
End at: 2017-08-30 23:13:23
Local clock offset: -0.778 ms
Remote clock offset: 0.357 ms


# Below is generated by plot.py at 2017-08-31 06:41:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.49 Mbit/s
95th percentile per-packet one-way delay: 7.352 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 325.49 Mbit/s
95th percentile per-packet one-way delay: 7.352 ms
Loss rate: 0.02%
```
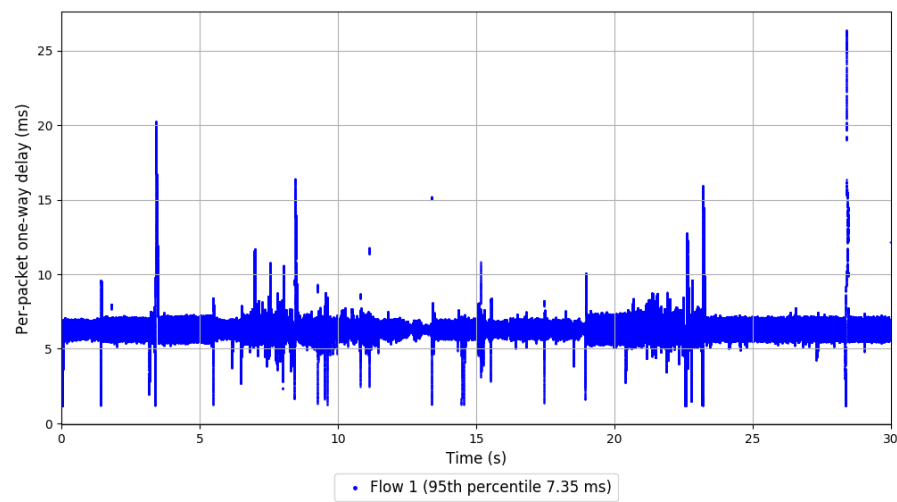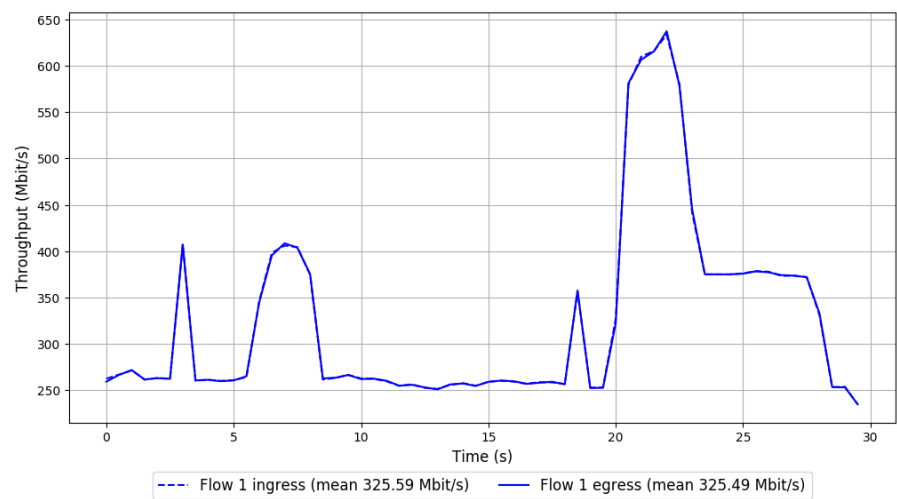
Run 2: Report of CalibratedKoho — Data Link

```
Run 3: Statistics of CalibratedKoho

Start at: 2017-08-30 23:31:43
End at: 2017-08-30 23:32:13
Local clock offset: -0.398 ms
Remote clock offset: 0.706 ms


# Below is generated by plot.py at 2017-08-31 06:41:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 403.74 Mbit/s
95th percentile per-packet one-way delay: 7.780 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 403.74 Mbit/s
95th percentile per-packet one-way delay: 7.780 ms
Loss rate: 0.01%
```
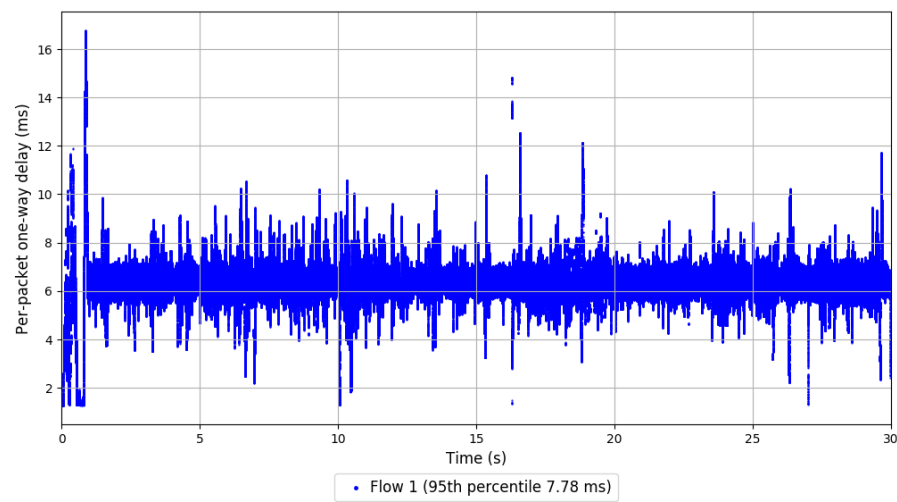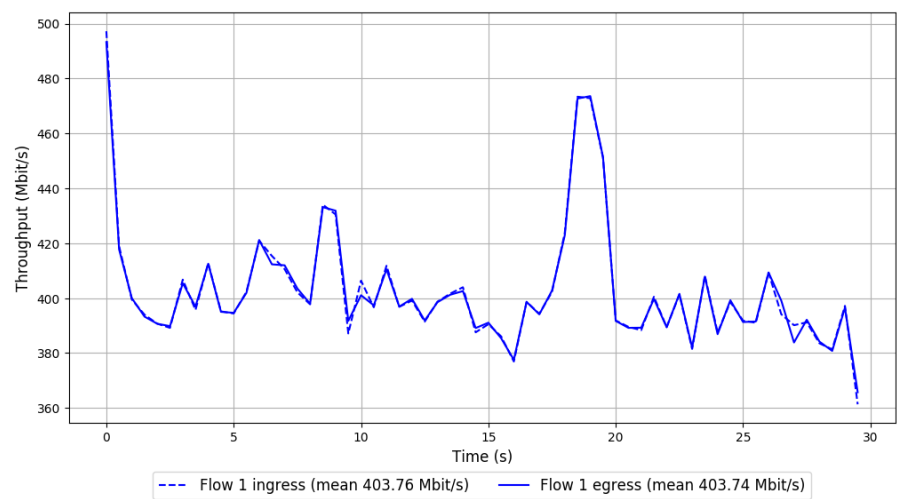
Run 3: Report of CalibratedKoho — Data Link

```
Run 4: Statistics of CalibratedKoho

Start at: 2017-08-30 23:50:32
End at: 2017-08-30 23:51:02
Local clock offset: -0.543 ms
Remote clock offset: 0.944 ms

# Below is generated by plot.py at 2017-08-31 06:42:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 395.95 Mbit/s
95th percentile per-packet one-way delay: 7.287 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 395.95 Mbit/s
95th percentile per-packet one-way delay: 7.287 ms
Loss rate: 0.02%
```
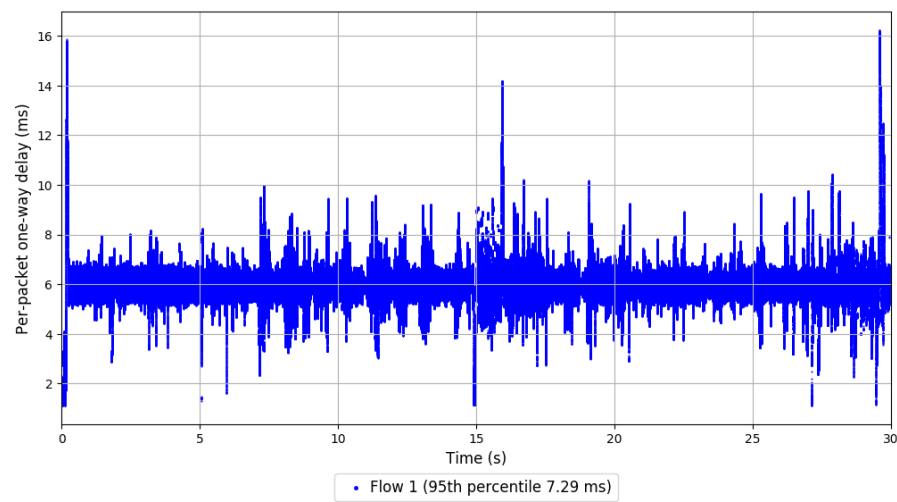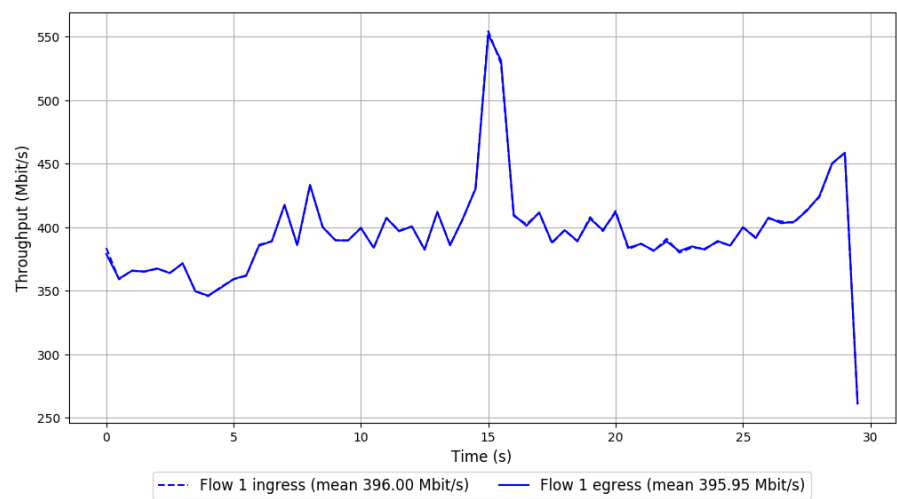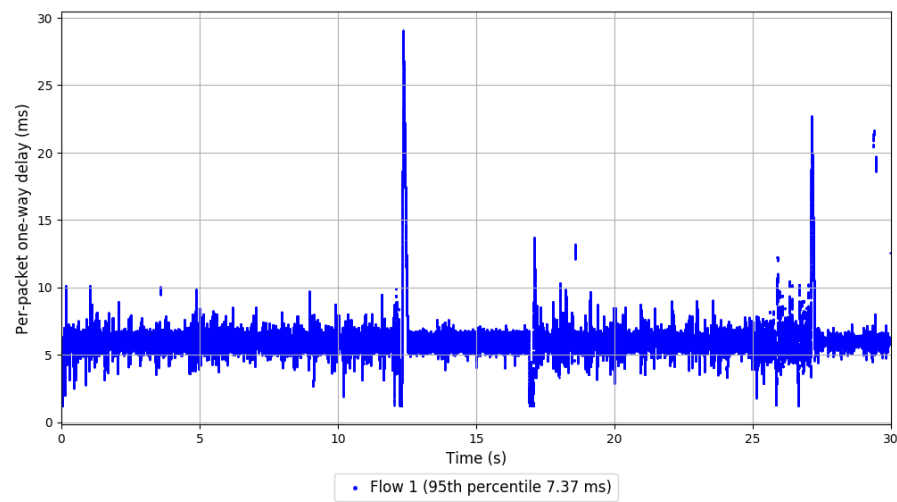
Run 4: Report of CalibratedKoho — Data Link

```
Run 5: Statistics of CalibratedKoho

Start at: 2017-08-31 00:09:16
End at: 2017-08-31 00:09:46
Local clock offset: -0.58 ms
Remote clock offset: 0.919 ms


# Below is generated by plot.py at 2017-08-31 06:42:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 375.95 Mbit/s
95th percentile per-packet one-way delay: 7.372 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 375.95 Mbit/s
95th percentile per-packet one-way delay: 7.372 ms
Loss rate: 0.02%
```
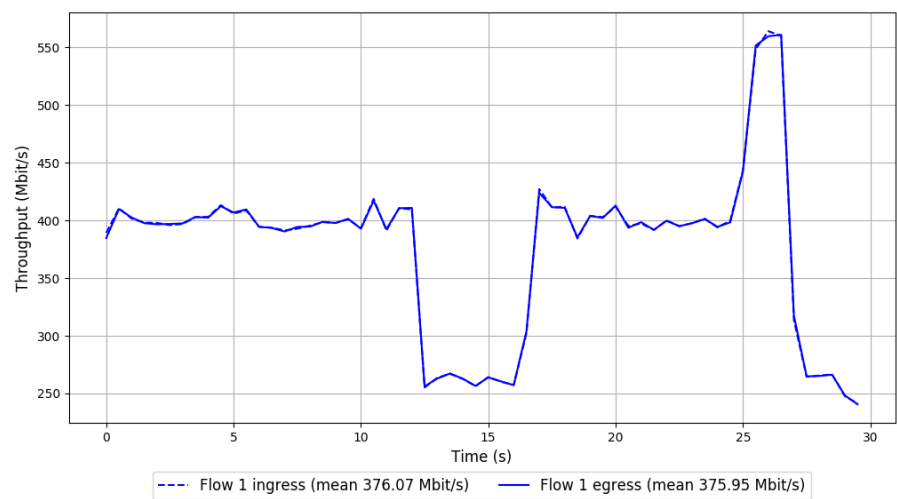
Run 5: Report of CalibratedKoho — Data Link

```
Run 6: Statistics of CalibratedKoho

Start at: 2017-08-31 00:28:00
End at: 2017-08-31 00:28:30
Local clock offset: -0.713 ms
Remote clock offset: 1.017 ms


# Below is generated by plot.py at 2017-08-31 06:42:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 295.27 Mbit/s
95th percentile per-packet one-way delay: 7.054 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 295.27 Mbit/s
95th percentile per-packet one-way delay: 7.054 ms
Loss rate: 0.02%
```
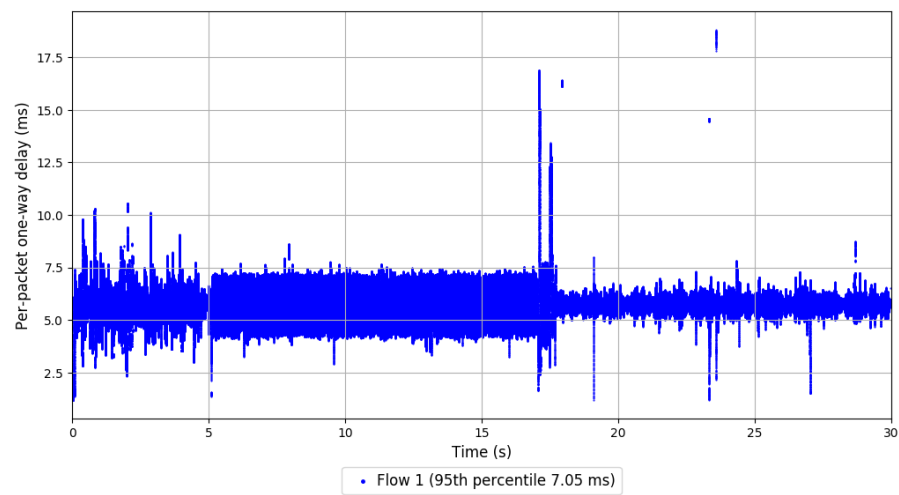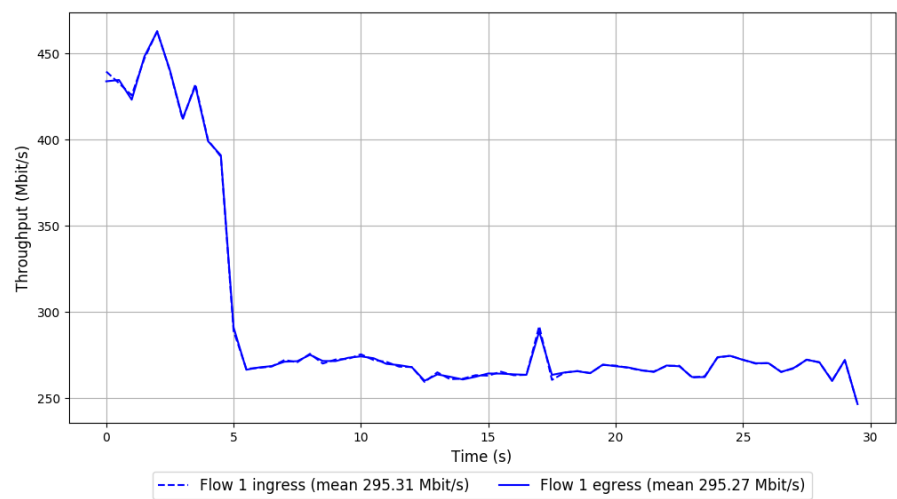
Run 6: Report of CalibratedKoho — Data Link

```
Run 7: Statistics of CalibratedKoho

Start at: 2017-08-31 00:46:37
End at: 2017-08-31 00:47:07
Local clock offset: -0.627 ms
Remote clock offset: 1.16 ms


# Below is generated by plot.py at 2017-08-31 06:43:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 320.59 Mbit/s
95th percentile per-packet one-way delay: 7.311 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 320.59 Mbit/s
95th percentile per-packet one-way delay: 7.311 ms
Loss rate: 0.02%
```
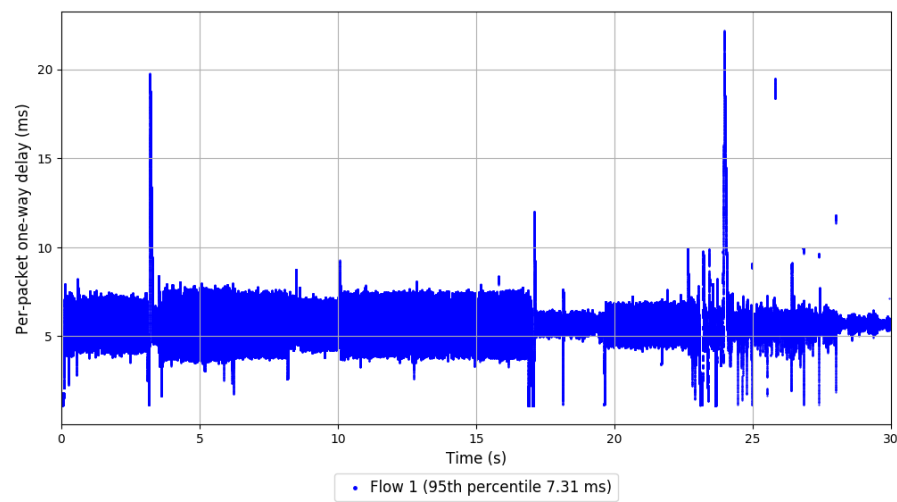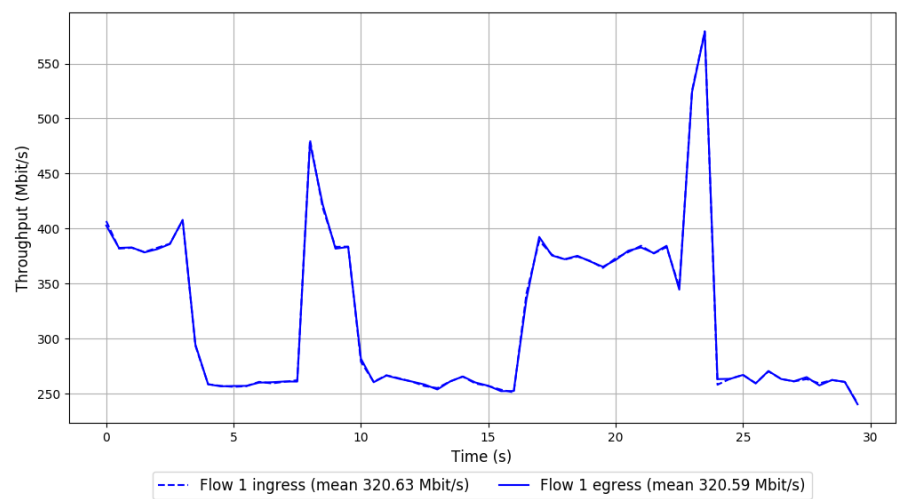
Run 7: Report of CalibratedKoho — Data Link

```
Run 8: Statistics of CalibratedKoho

Start at: 2017-08-31 01:05:16
End at: 2017-08-31 01:05:46
Local clock offset: -0.911 ms
Remote clock offset: 0.756 ms

# Below is generated by plot.py at 2017-08-31 06:43:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 361.68 Mbit/s
95th percentile per-packet one-way delay: 6.782 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 361.68 Mbit/s
95th percentile per-packet one-way delay: 6.782 ms
Loss rate: 0.03%
```
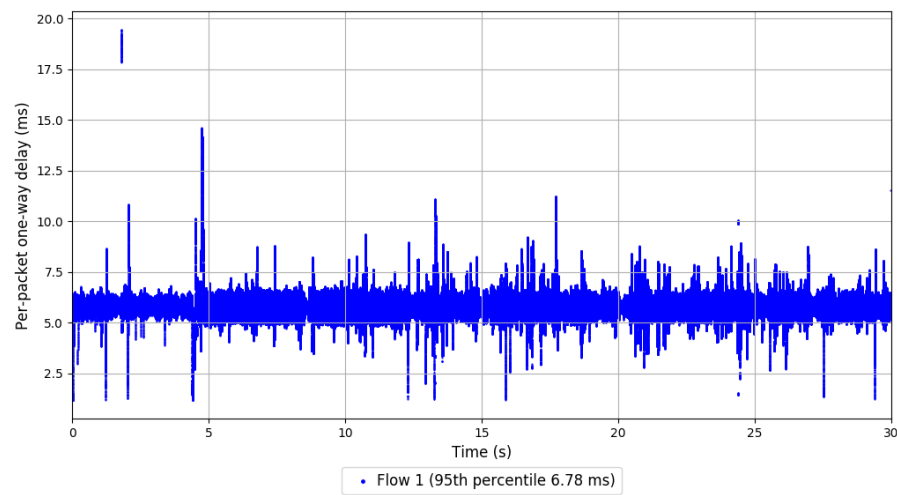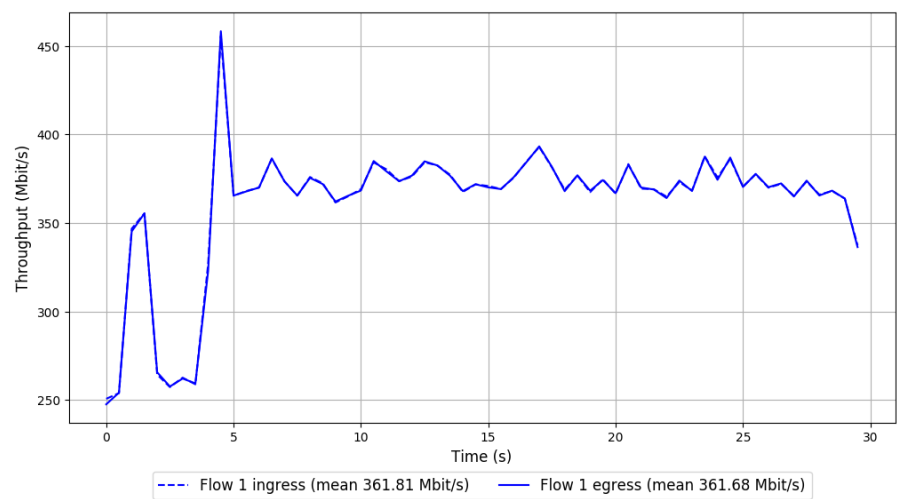
Run 8: Report of CalibratedKoho — Data Link

```
Run 9: Statistics of CalibratedKoho

Start at: 2017-08-31 01:24:03
End at: 2017-08-31 01:24:33
Local clock offset: -0.592 ms
Remote clock offset: 0.688 ms


# Below is generated by plot.py at 2017-08-31 06:44:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 392.09 Mbit/s
95th percentile per-packet one-way delay: 7.488 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 392.09 Mbit/s
95th percentile per-packet one-way delay: 7.488 ms
Loss rate: 0.02%
```
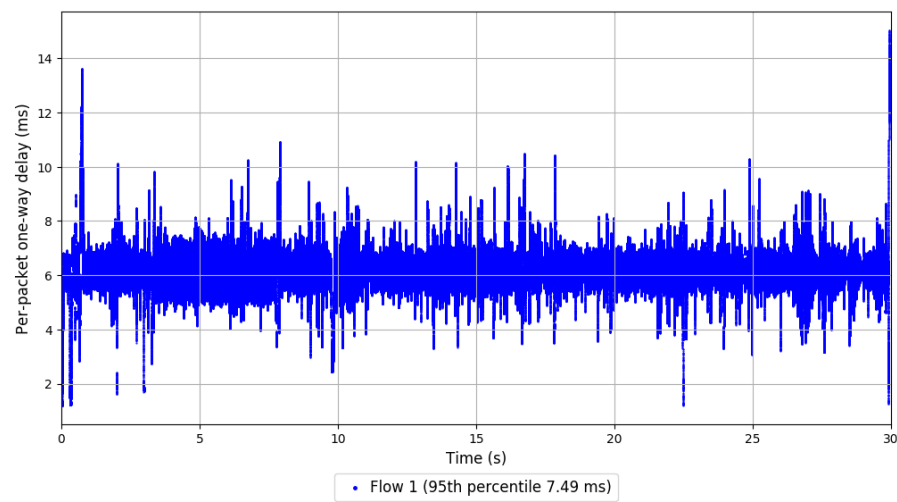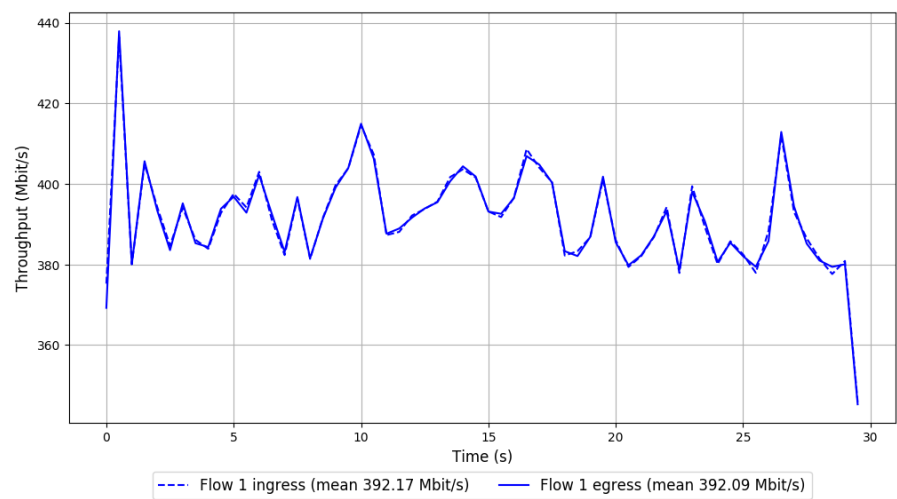
Run 9: Report of CalibratedKoho — Data Link

```
Run 10: Statistics of CalibratedKoho

Start at: 2017-08-31 01:43:00
End at: 2017-08-31 01:43:30
Local clock offset: -0.706 ms
Remote clock offset: 0.417 ms


# Below is generated by plot.py at 2017-08-31 06:44:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.32 Mbit/s
95th percentile per-packet one-way delay: 7.831 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 337.32 Mbit/s
95th percentile per-packet one-way delay: 7.831 ms
Loss rate: 0.02%
```
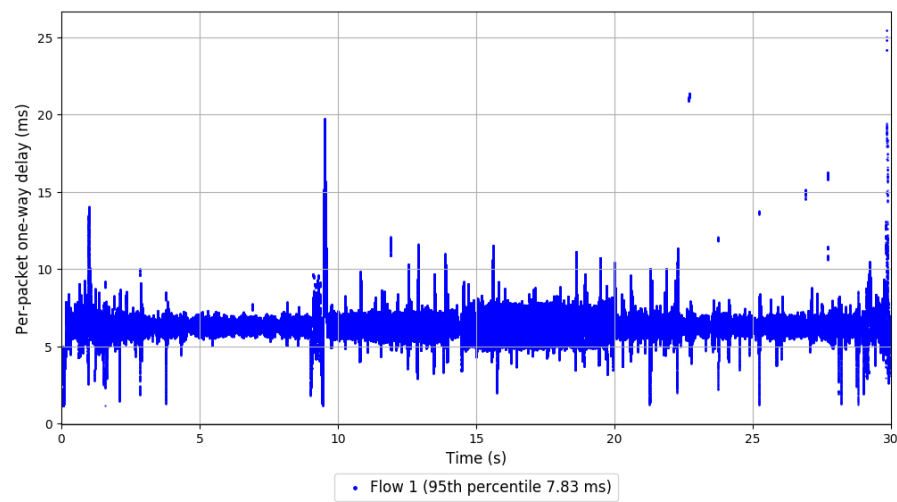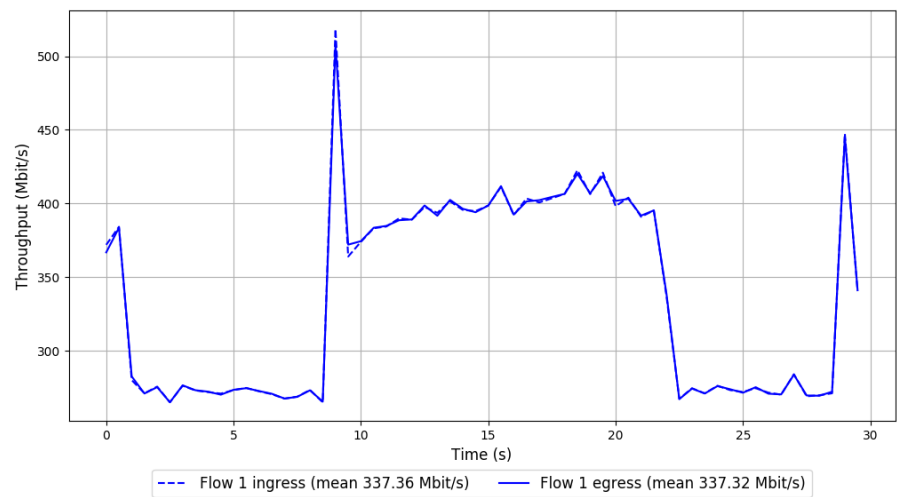
Run 10: Report of CalibratedKoho — Data Link

```
Run 1: Statistics of Copa

Start at: 2017-08-30 23:02:12
End at: 2017-08-30 23:02:42
Local clock offset: -0.746 ms
Remote clock offset: 0.196 ms


# Below is generated by plot.py at 2017-08-31 06:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.33 Mbit/s
95th percentile per-packet one-way delay: 1.301 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.33 Mbit/s
95th percentile per-packet one-way delay: 1.301 ms
Loss rate: 0.02%
```
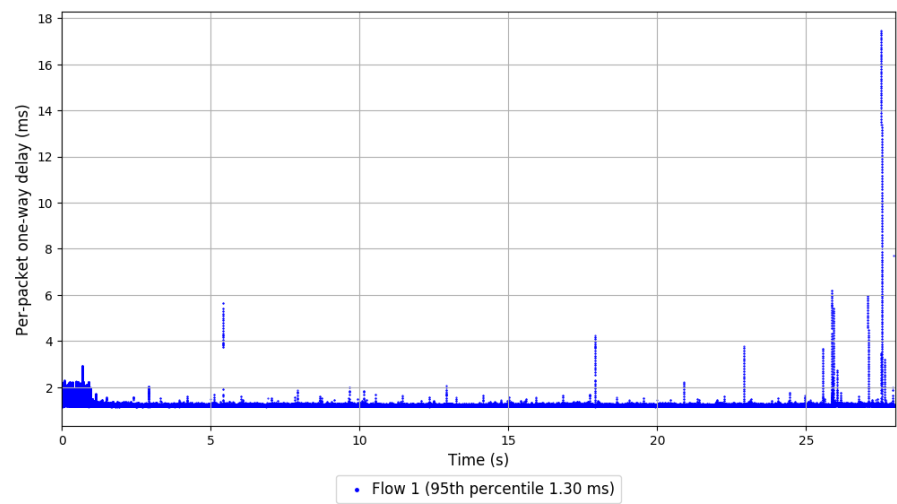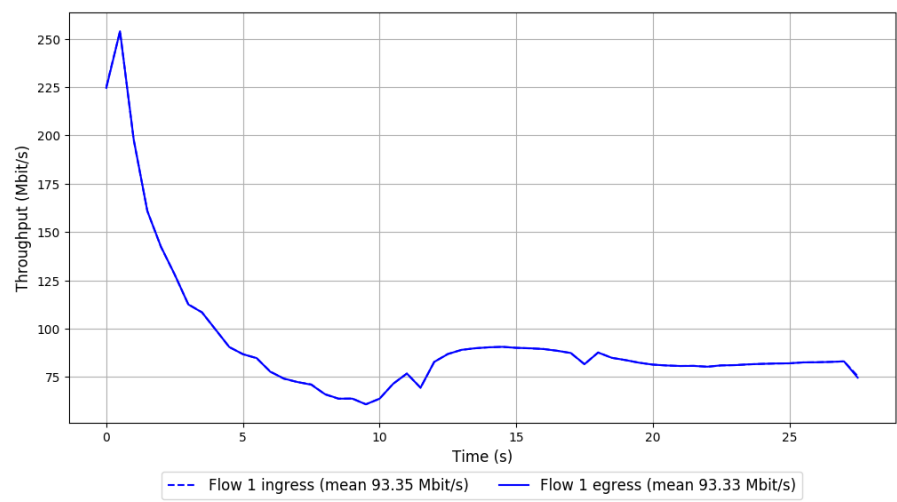
Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: 2017-08-30 23:21:06
End at: 2017-08-30 23:21:36
Local clock offset: -0.535 ms
Remote clock offset: 0.628 ms


# Below is generated by plot.py at 2017-08-31 06:44:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.23 Mbit/s
95th percentile per-packet one-way delay: 1.411 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 93.23 Mbit/s
95th percentile per-packet one-way delay: 1.411 ms
Loss rate: 0.01%
```
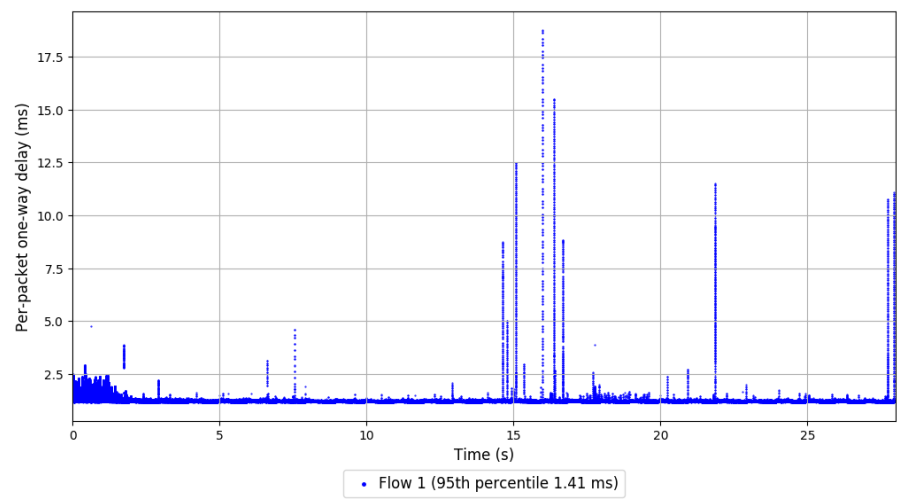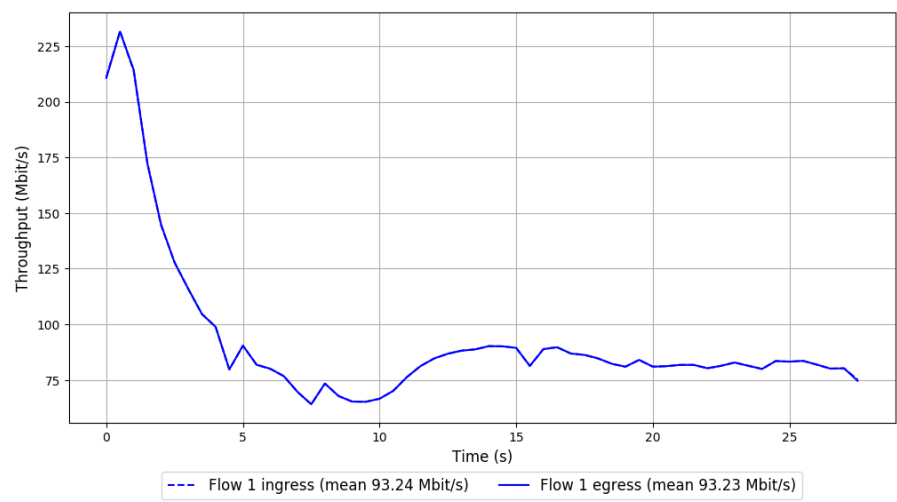
Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 93.24 Mbit/s) — — —   Flow 1 egress (mean 93.23 Mbit/s) ———

• Flow 1 (95th percentile 1.41 ms)

```
Run 3: Statistics of Copa

Start at: 2017-08-30 23:39:54
End at: 2017-08-30 23:40:24
Local clock offset: -0.467 ms
Remote clock offset: 0.852 ms


# Below is generated by plot.py at 2017-08-31 06:44:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 1.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 1.429 ms
Loss rate: 0.00%
```
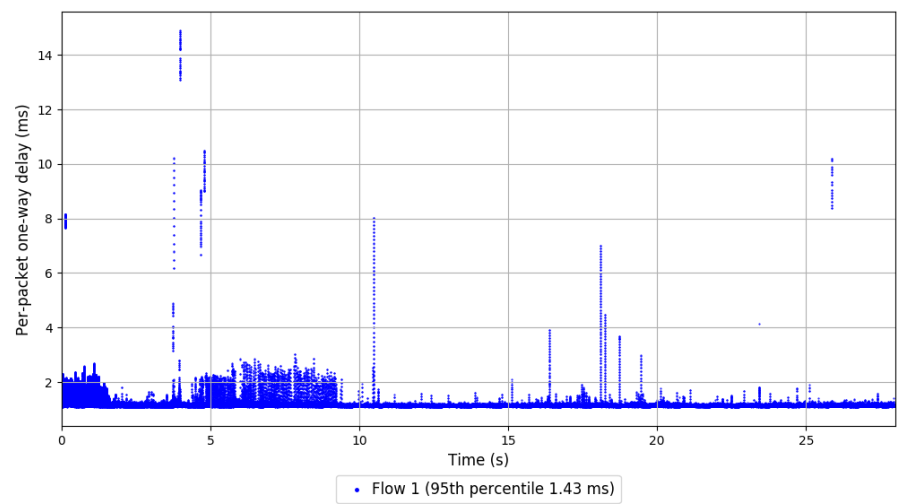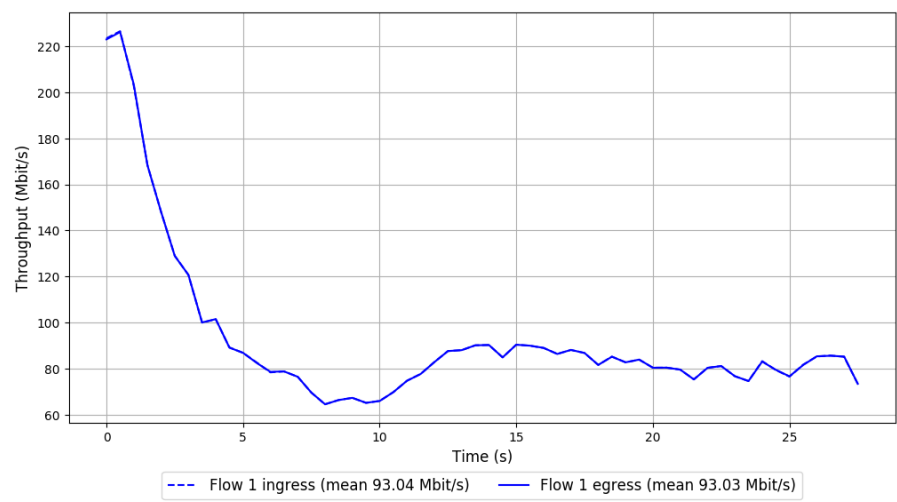
Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: 2017-08-30 23:58:43
End at: 2017-08-30 23:59:13
Local clock offset: -0.47 ms
Remote clock offset: 1.061 ms


# Below is generated by plot.py at 2017-08-31 06:45:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.50 Mbit/s
95th percentile per-packet one-way delay: 1.449 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.50 Mbit/s
95th percentile per-packet one-way delay: 1.449 ms
Loss rate: 0.01%
```
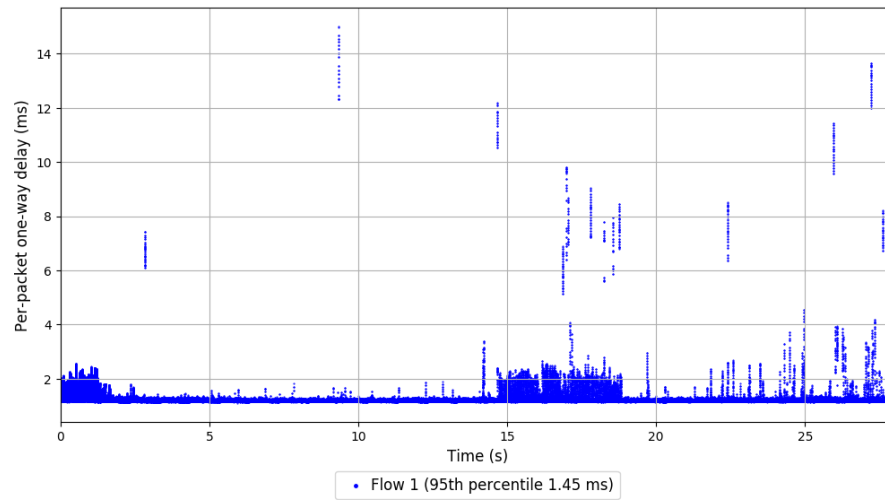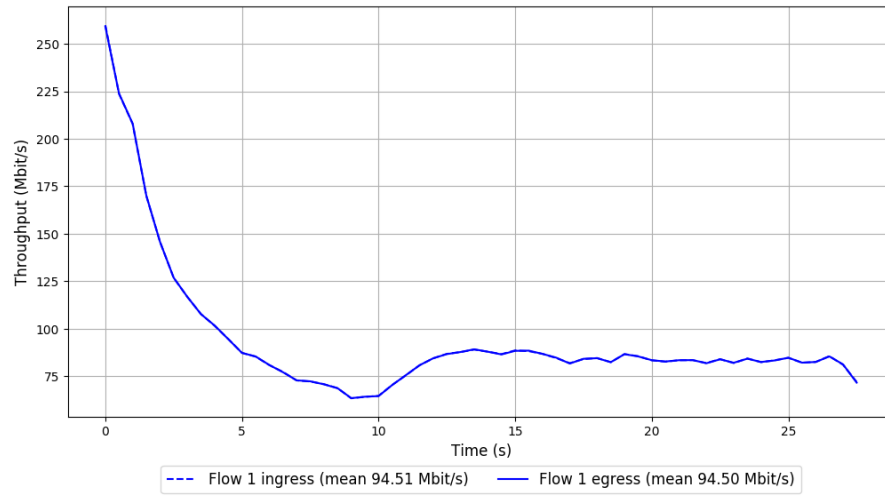
Run 4: Report of Copa — Data Link

Flow 1 ingress (mean 94.51 Mbit/s) --- Flow 1 egress (mean 94.50 Mbit/s)

• Flow 1 (95th percentile 1.45 ms)

```
Run 5: Statistics of Copa

Start at: 2017-08-31 00:17:24
End at: 2017-08-31 00:17:54
Local clock offset: -0.703 ms
Remote clock offset: 0.824 ms


# Below is generated by plot.py at 2017-08-31 06:45:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 1.441 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 1.441 ms
Loss rate: 0.00%
```
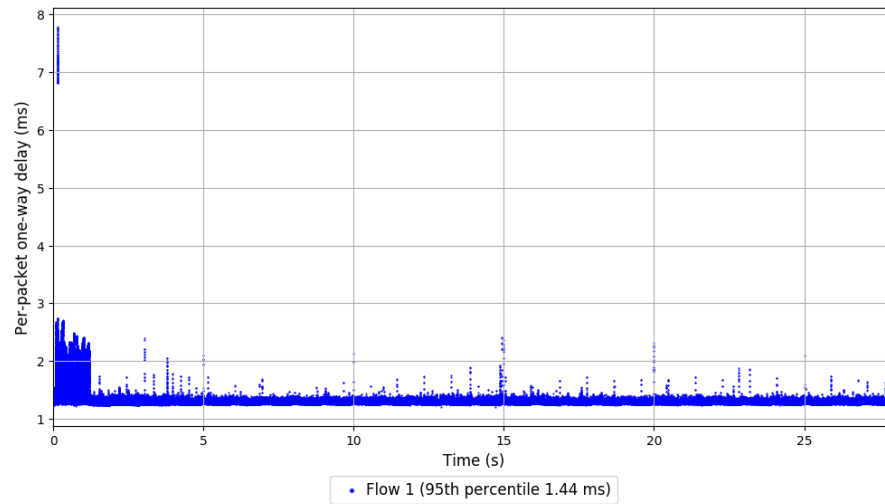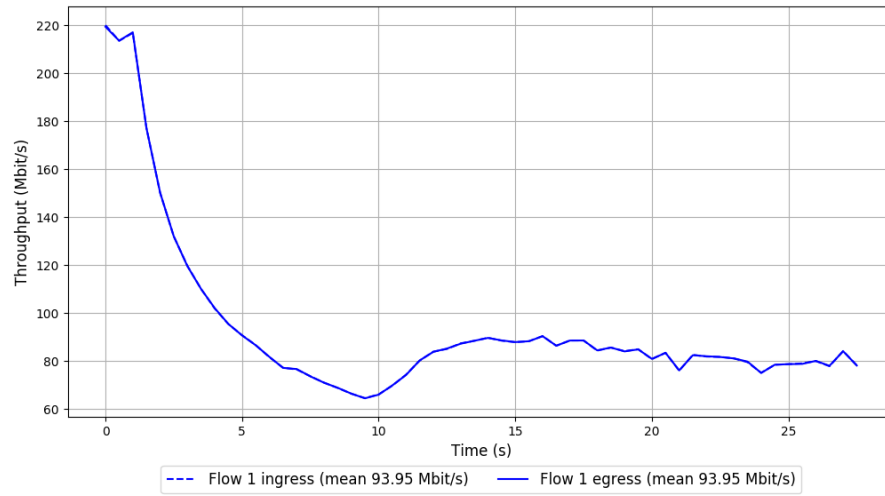
Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 93.95 Mbit/s) --- Flow 1 egress (mean 93.95 Mbit/s)

Flow 1 (95th percentile 1.44 ms)

53

```
Run 6: Statistics of Copa

Start at: 2017-08-31 00:36:03
End at: 2017-08-31 00:36:33
Local clock offset: -0.773 ms
Remote clock offset: 1.034 ms


# Below is generated by plot.py at 2017-08-31 06:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.85 Mbit/s
95th percentile per-packet one-way delay: 1.317 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.85 Mbit/s
95th percentile per-packet one-way delay: 1.317 ms
Loss rate: 0.02%
```
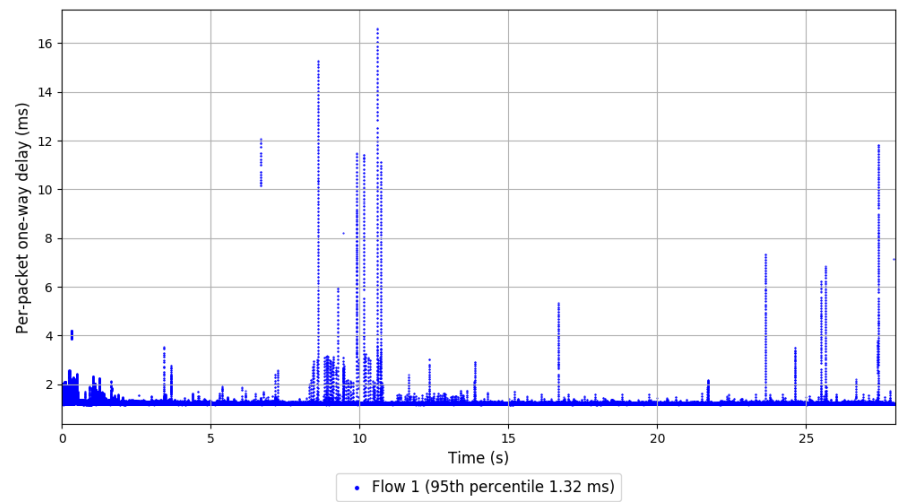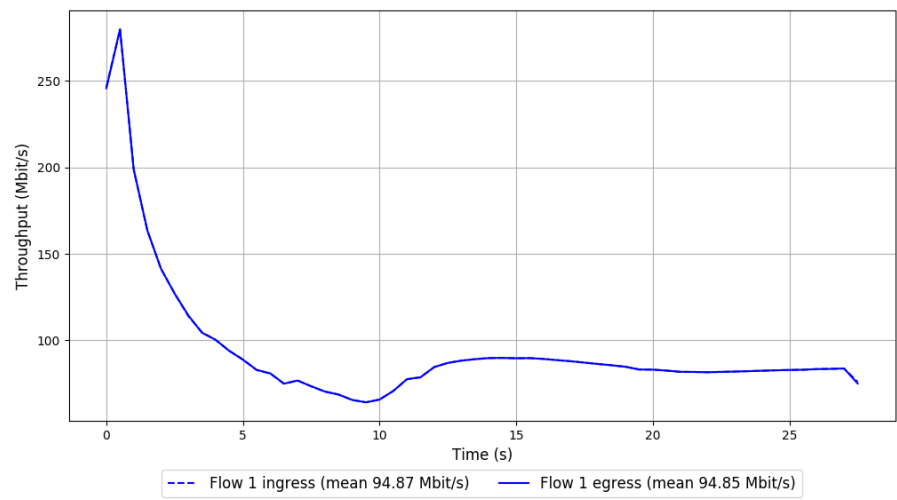
Run 6: Report of Copa — Data Link

```
Run 7: Statistics of Copa

Start at: 2017-08-31 00:54:41
End at: 2017-08-31 00:55:11
Local clock offset: -0.714 ms
Remote clock offset: 0.918 ms


# Below is generated by plot.py at 2017-08-31 06:45:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 1.472 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 1.472 ms
Loss rate: 0.02%
```
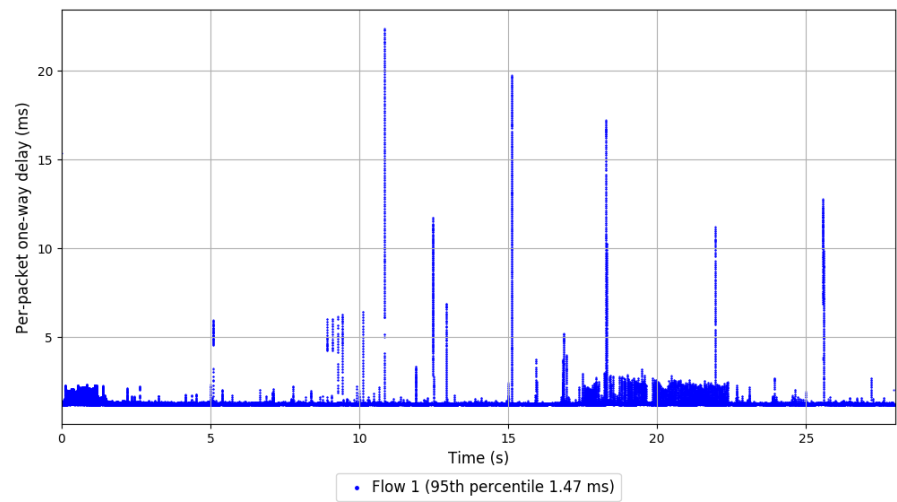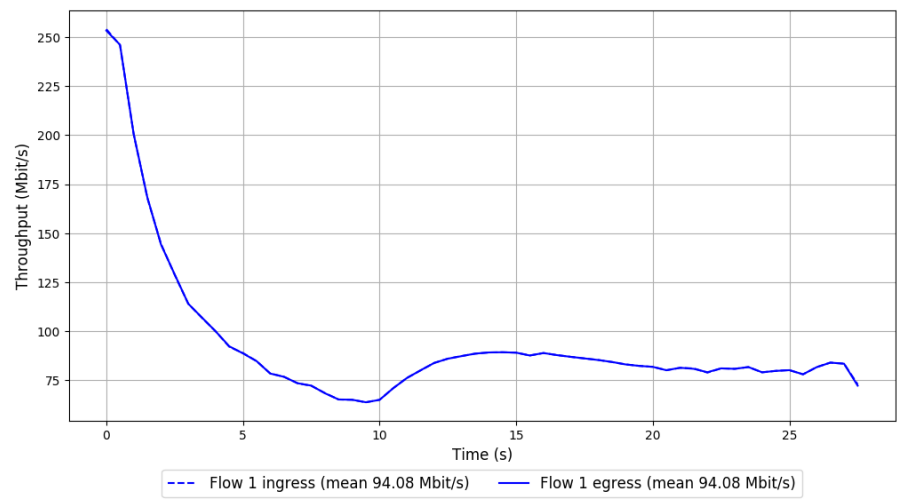
Run 7: Report of Copa — Data Link

```
Run 8: Statistics of Copa

Start at: 2017-08-31 01:13:26
End at: 2017-08-31 01:13:56
Local clock offset: -0.808 ms
Remote clock offset: 0.746 ms


# Below is generated by plot.py at 2017-08-31 06:45:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 1.378 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 1.378 ms
Loss rate: 0.02%
```
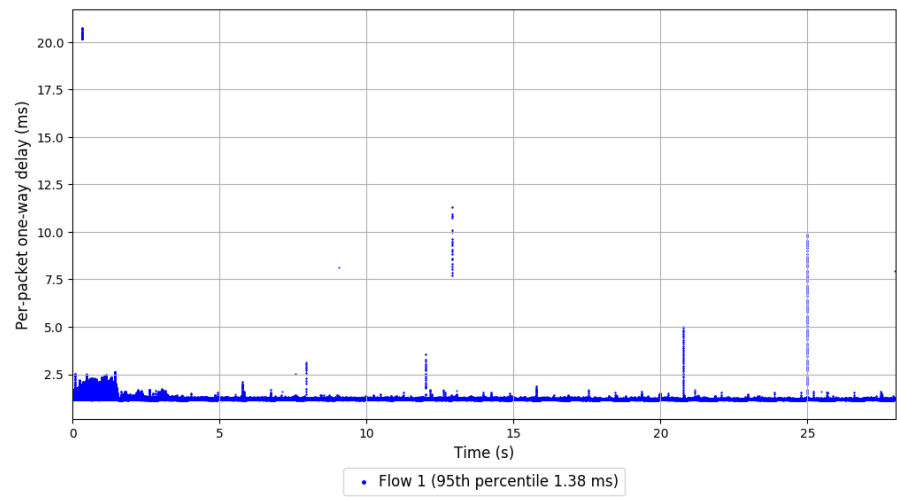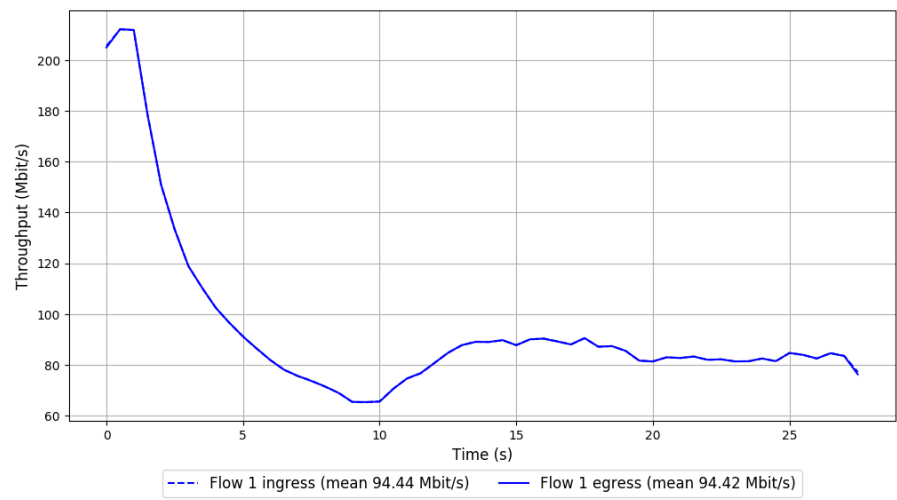
Run 8: Report of Copa — Data Link

Flow 1 ingress (mean 94.44 Mbit/s)   Flow 1 egress (mean 94.42 Mbit/s)

Flow 1 (95th percentile 1.38 ms)
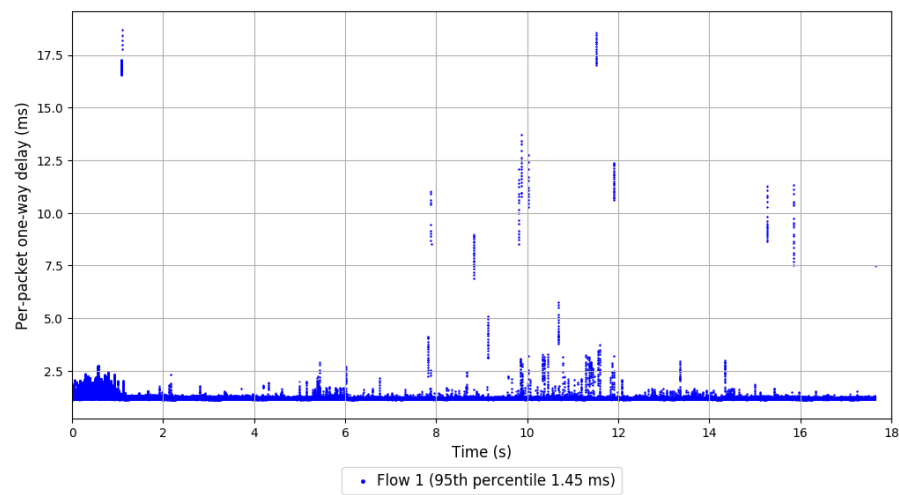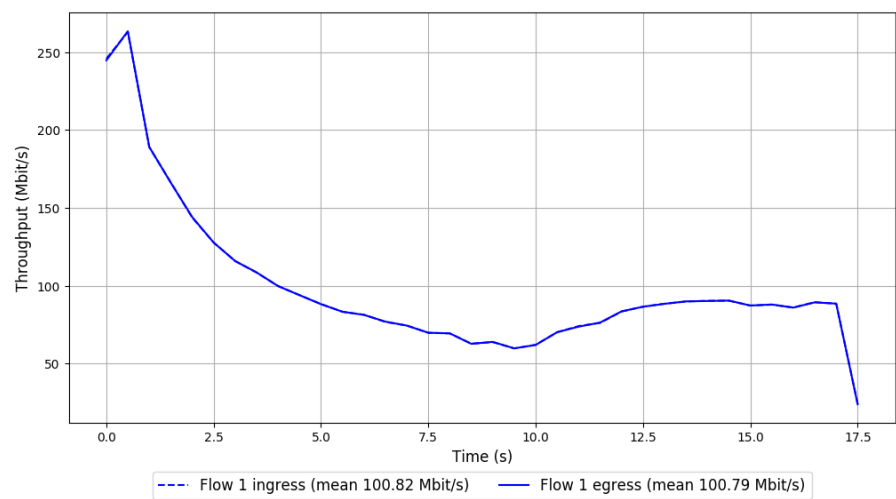
```
Run 9: Statistics of Copa

Start at: 2017-08-31 01:32:20
End at: 2017-08-31 01:32:50
Local clock offset: -0.604 ms
Remote clock offset: 0.594 ms
```

Run 9: Report of Copa — Data Link

Flow 1 ingress (mean 100.82 Mbit/s)   Flow 1 egress (mean 100.79 Mbit/s)

Flow 1 (95th percentile 1.45 ms)

```
Run 10: Statistics of Copa

Start at: 2017-08-31 01:51:26
End at: 2017-08-31 01:51:56
Local clock offset: -0.864 ms
Remote clock offset: 0.263 ms


# Below is generated by plot.py at 2017-08-31 06:46:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 1.330 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 1.330 ms
Loss rate: 0.01%
```
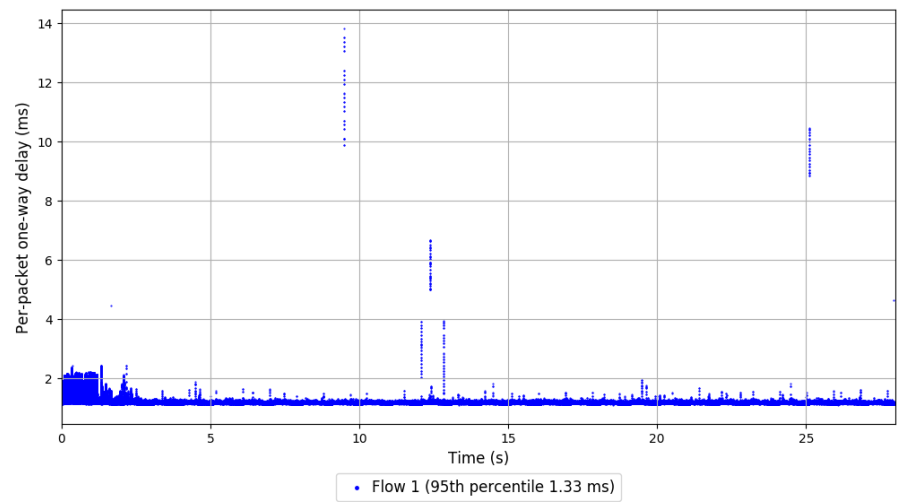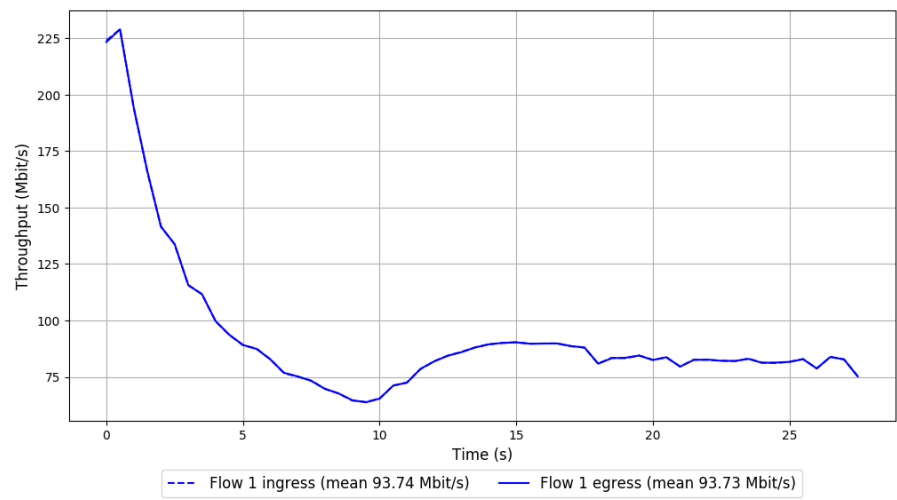
Run 10: Report of Copa — Data Link

Flow 1 ingress (mean 93.74 Mbit/s) --- Flow 1 egress (mean 93.73 Mbit/s)

Flow 1 (95th percentile 1.33 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2017-08-30 22:59:17
End at: 2017-08-30 22:59:48
Local clock offset: -0.643 ms
Remote clock offset: 0.213 ms


# Below is generated by plot.py at 2017-08-31 06:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 591.93 Mbit/s
95th percentile per-packet one-way delay: 14.141 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 591.93 Mbit/s
95th percentile per-packet one-way delay: 14.141 ms
Loss rate: 0.04%
```
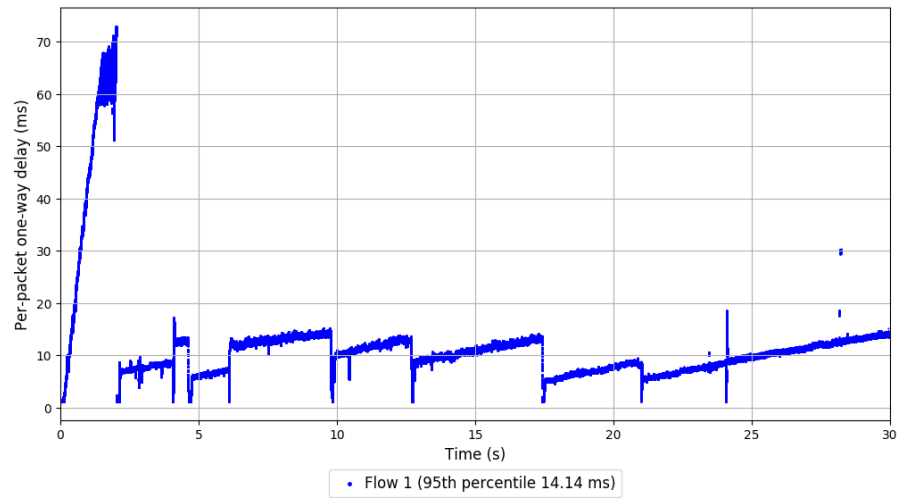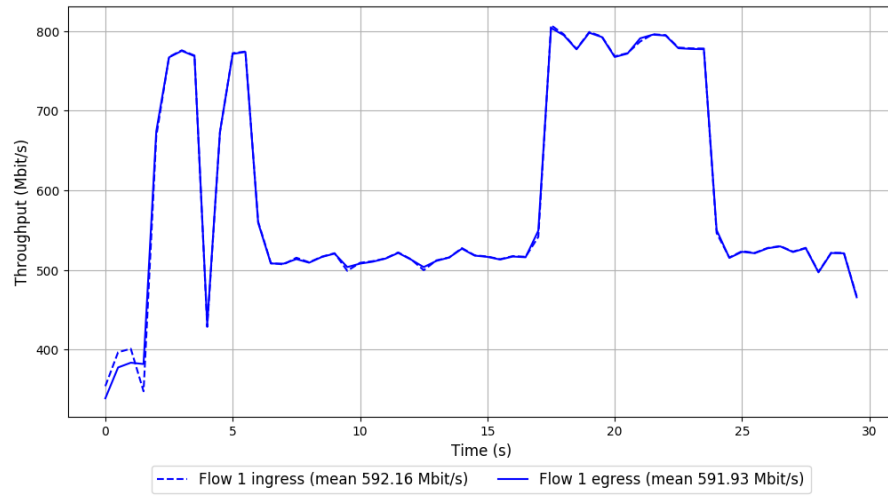
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2017-08-30 23:18:14
End at: 2017-08-30 23:18:44
Local clock offset: -0.601 ms
Remote clock offset: 0.544 ms


# Below is generated by plot.py at 2017-08-31 06:47:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 537.66 Mbit/s
95th percentile per-packet one-way delay: 47.257 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 537.66 Mbit/s
95th percentile per-packet one-way delay: 47.257 ms
Loss rate: 0.02%
```
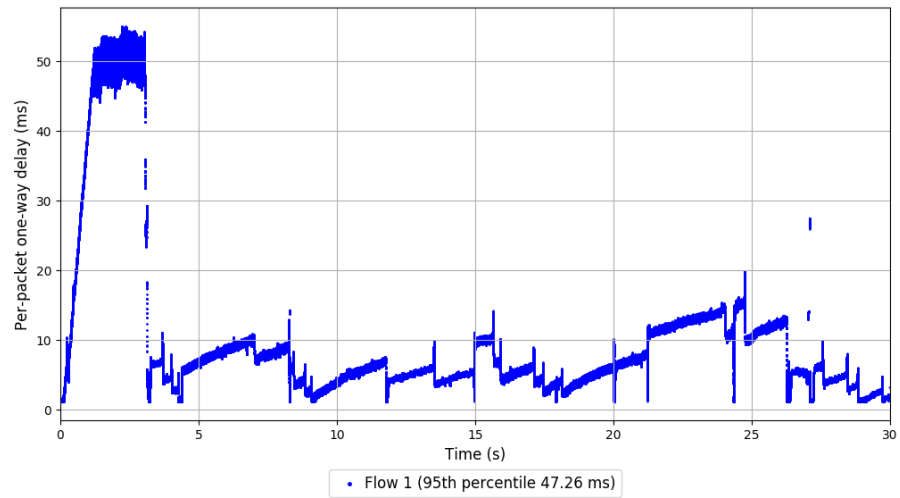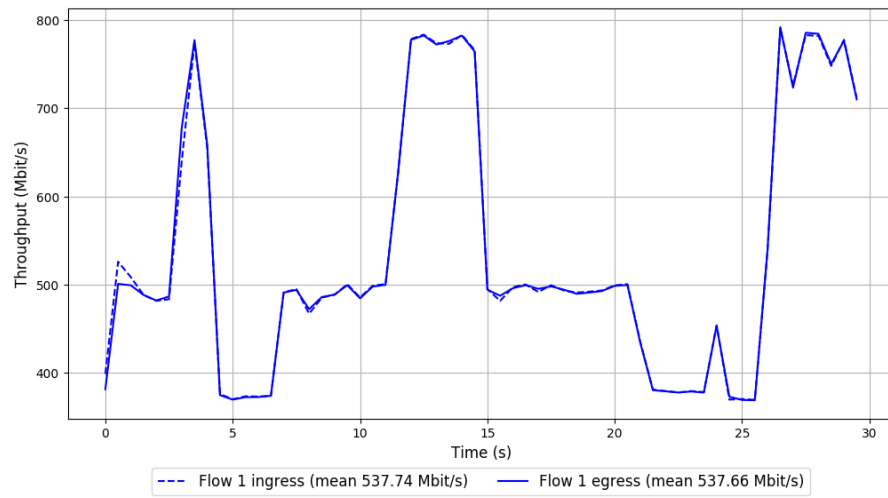
Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 537.74 Mbit/s) --- Flow 1 egress (mean 537.66 Mbit/s)

Flow 1 (95th percentile 47.26 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2017-08-30 23:36:59
End at: 2017-08-30 23:37:29
Local clock offset: -0.416 ms
Remote clock offset: 0.804 ms


# Below is generated by plot.py at 2017-08-31 06:48:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 604.51 Mbit/s
95th percentile per-packet one-way delay: 24.805 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 604.51 Mbit/s
95th percentile per-packet one-way delay: 24.805 ms
Loss rate: 0.04%
```
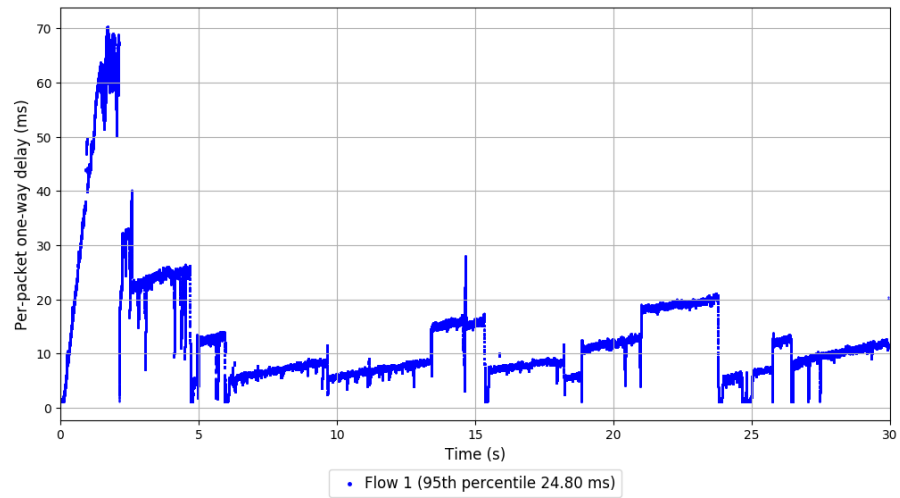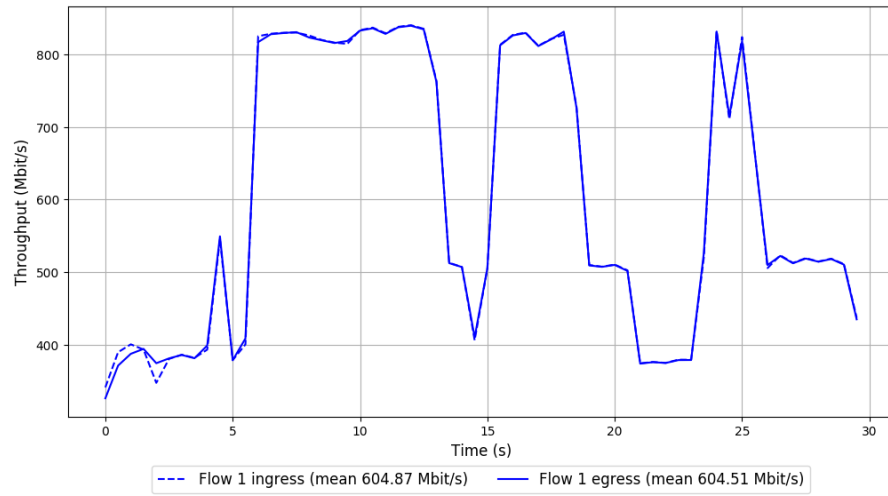
Run 3: Report of TCP Cubic — Data Link

```
Run 4: Statistics of TCP Cubic

Start at: 2017-08-30 23:55:47
End at: 2017-08-30 23:56:17
Local clock offset: -0.549 ms
Remote clock offset: 1.038 ms


# Below is generated by plot.py at 2017-08-31 06:48:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 588.50 Mbit/s
95th percentile per-packet one-way delay: 15.863 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 588.50 Mbit/s
95th percentile per-packet one-way delay: 15.863 ms
Loss rate: 0.04%
```
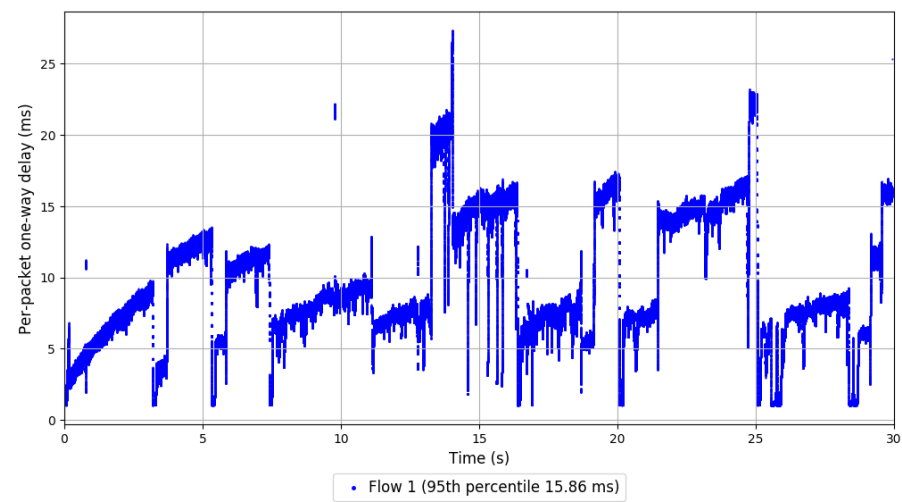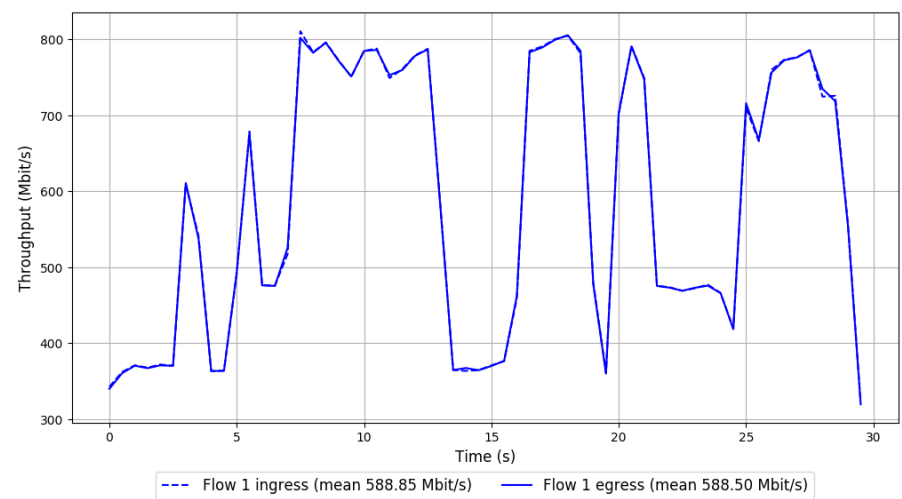
Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2017-08-31 00:14:26
End at: 2017-08-31 00:14:56
Local clock offset: -0.599 ms
Remote clock offset: 0.982 ms


# Below is generated by plot.py at 2017-08-31 06:49:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 633.62 Mbit/s
95th percentile per-packet one-way delay: 60.577 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 633.62 Mbit/s
95th percentile per-packet one-way delay: 60.577 ms
Loss rate: 0.05%
```
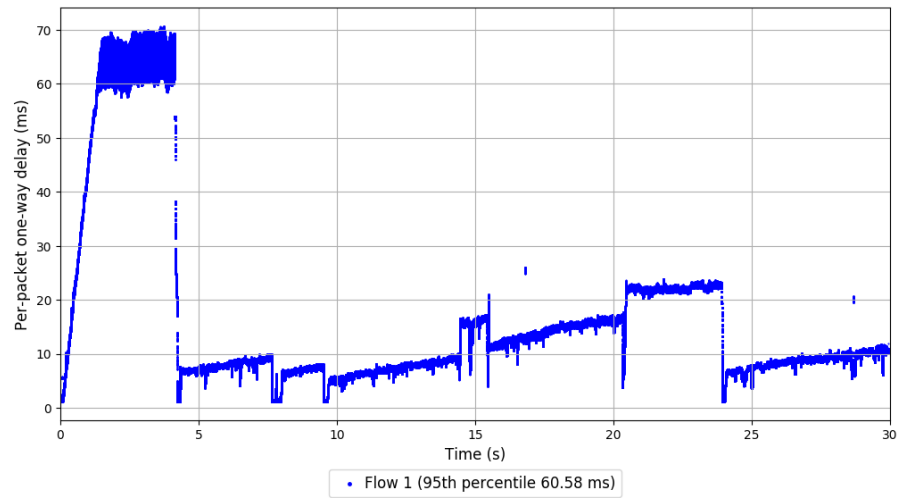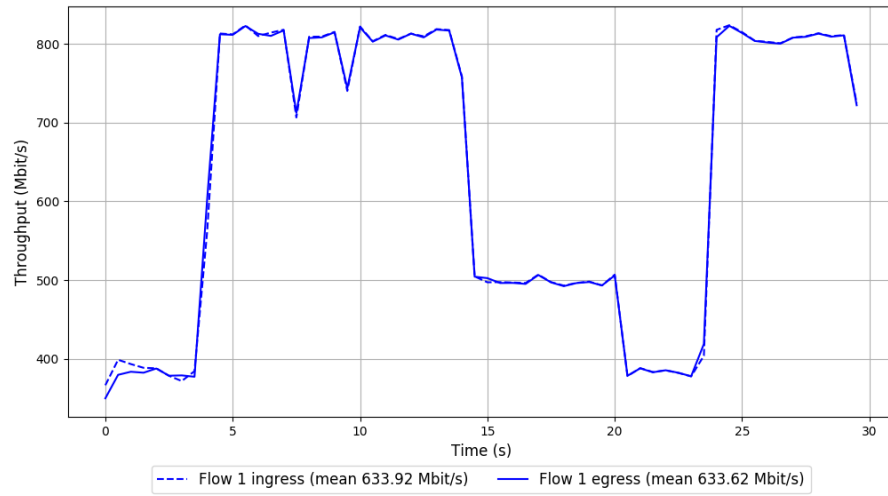
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 633.92 Mbit/s)   Flow 1 egress (mean 633.62 Mbit/s)

Flow 1 (95th percentile 60.58 ms)

73

```
Run 6: Statistics of TCP Cubic

Start at: 2017-08-31 00:33:07
End at: 2017-08-31 00:33:37
Local clock offset: -0.795 ms
Remote clock offset: 1.009 ms


# Below is generated by plot.py at 2017-08-31 06:49:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 553.78 Mbit/s
95th percentile per-packet one-way delay: 53.886 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 553.78 Mbit/s
95th percentile per-packet one-way delay: 53.886 ms
Loss rate: 0.02%
```
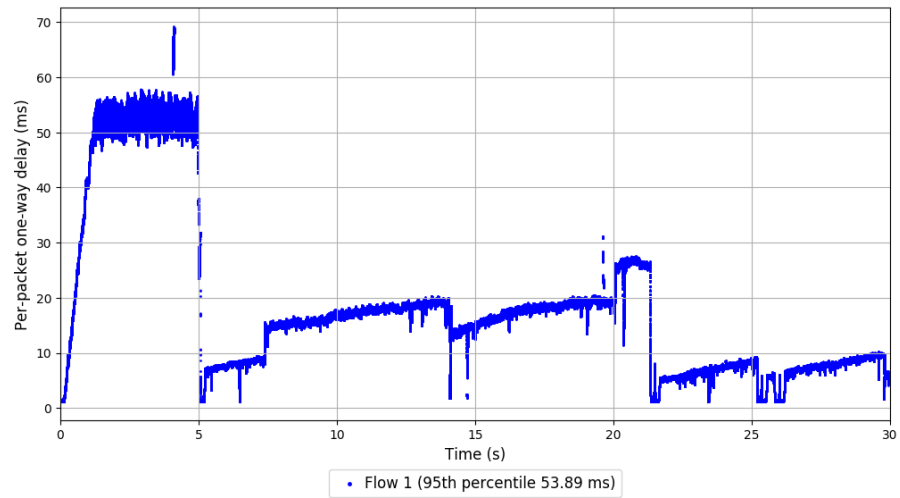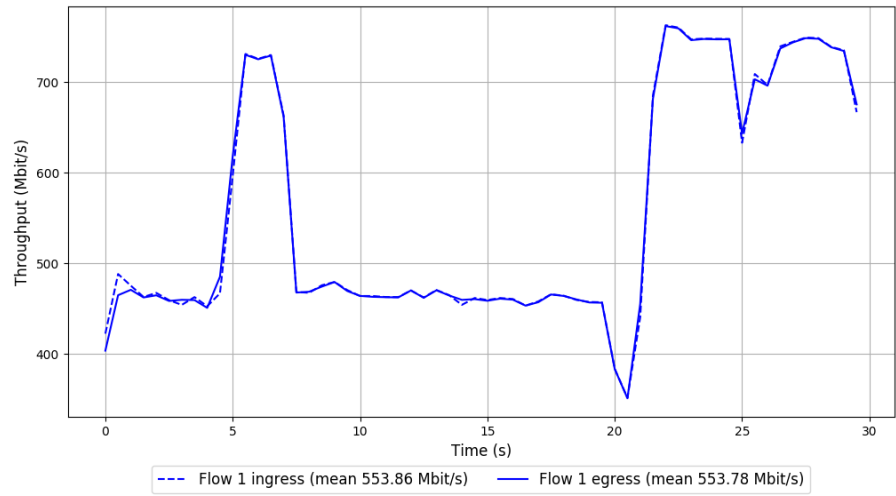
Run 6: Report of TCP Cubic — Data Link

```
Run 7: Statistics of TCP Cubic

Start at: 2017-08-31 00:51:45
End at: 2017-08-31 00:52:15
Local clock offset: -0.754 ms
Remote clock offset: 0.876 ms


# Below is generated by plot.py at 2017-08-31 06:51:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 590.78 Mbit/s
95th percentile per-packet one-way delay: 20.223 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 590.78 Mbit/s
95th percentile per-packet one-way delay: 20.223 ms
Loss rate: 0.04%
```
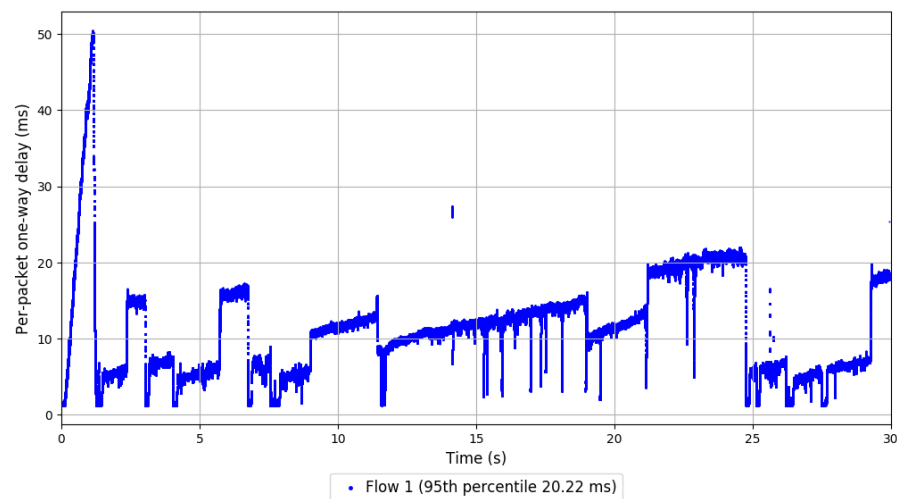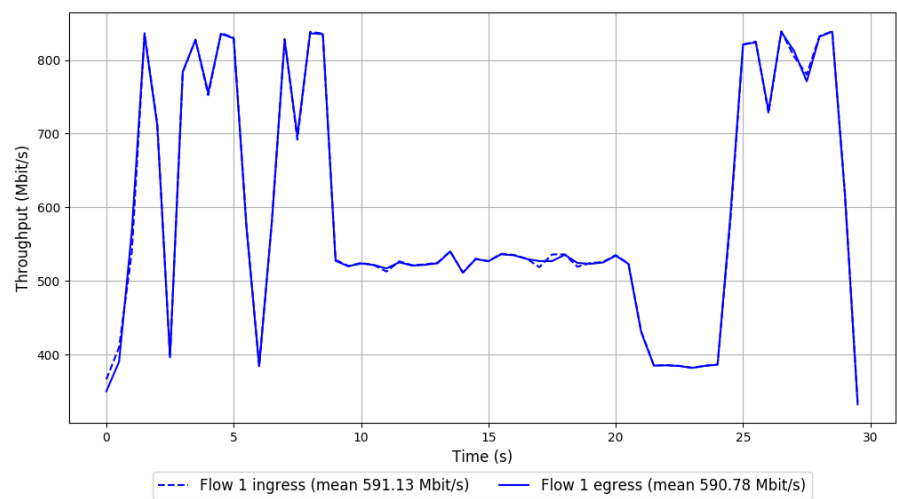
Run 7: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 591.13 Mbit/s) — — — Flow 1 egress (mean 590.78 Mbit/s)

Flow 1 (95th percentile 20.22 ms)

```
Run 8: Statistics of TCP Cubic

Start at: 2017-08-31 01:10:27
End at: 2017-08-31 01:10:57
Local clock offset: -0.867 ms
Remote clock offset: 0.764 ms


# Below is generated by plot.py at 2017-08-31 06:51:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 569.06 Mbit/s
95th percentile per-packet one-way delay: 28.031 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 569.06 Mbit/s
95th percentile per-packet one-way delay: 28.031 ms
Loss rate: 0.02%
```
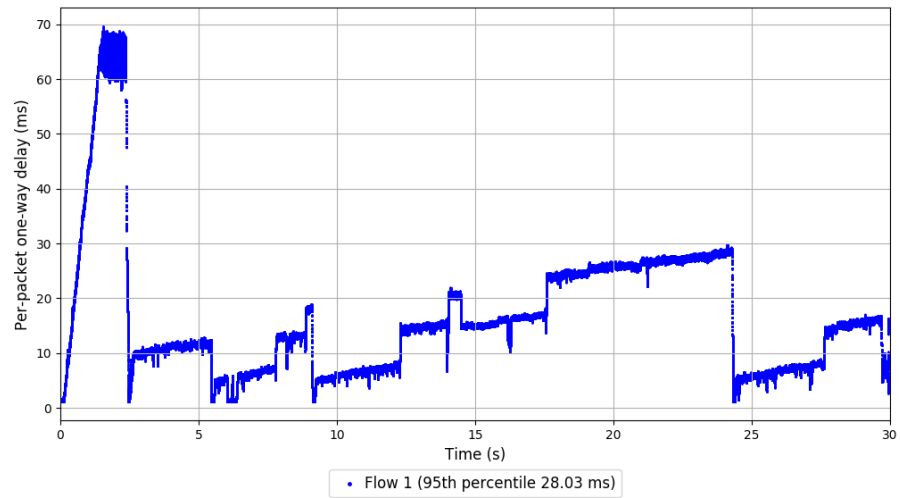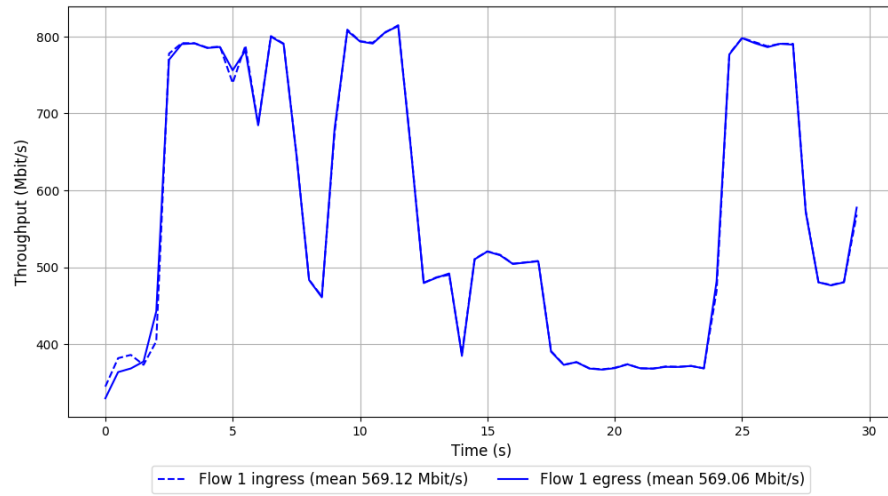
Run 8: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 569.12 Mbit/s) —— Flow 1 egress (mean 569.06 Mbit/s)

Flow 1 (95th percentile 28.03 ms)

```
Run 9: Statistics of TCP Cubic

Start at: 2017-08-31 01:29:29
End at: 2017-08-31 01:29:59
Local clock offset: -0.539 ms
Remote clock offset: 0.687 ms


# Below is generated by plot.py at 2017-08-31 06:52:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.94 Mbit/s
95th percentile per-packet one-way delay: 18.784 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 567.94 Mbit/s
95th percentile per-packet one-way delay: 18.784 ms
Loss rate: 0.04%
```
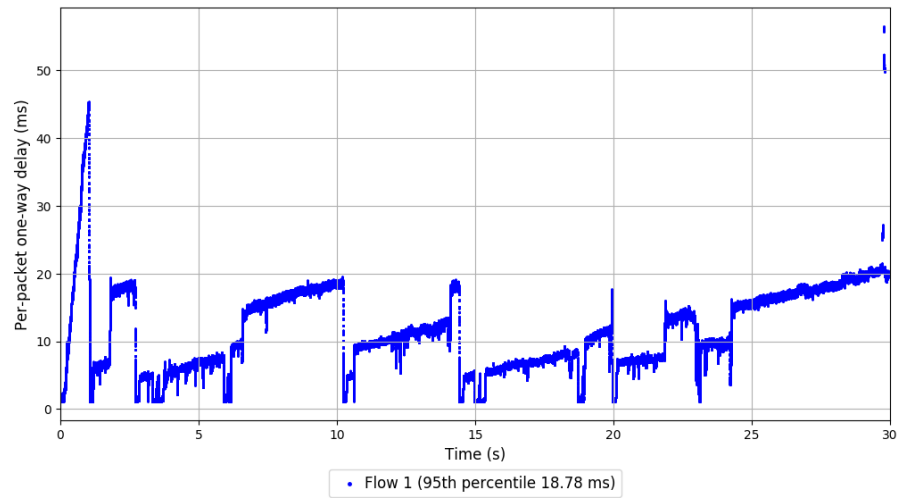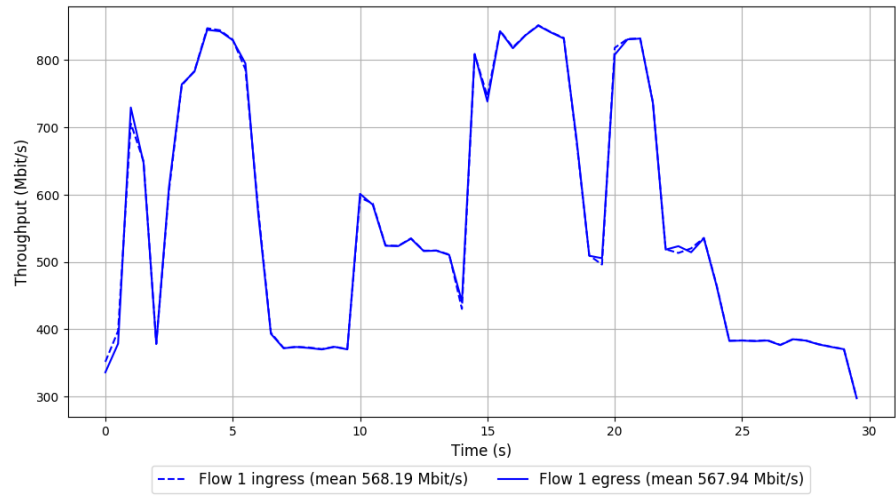
Run 9: Report of TCP Cubic — Data Link

```
Run 10: Statistics of TCP Cubic

Start at: 2017-08-31 01:48:26
End at: 2017-08-31 01:48:56
Local clock offset: -0.813 ms
Remote clock offset: 0.28 ms


# Below is generated by plot.py at 2017-08-31 06:52:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 590.27 Mbit/s
95th percentile per-packet one-way delay: 21.392 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 590.27 Mbit/s
95th percentile per-packet one-way delay: 21.392 ms
Loss rate: 0.05%
```
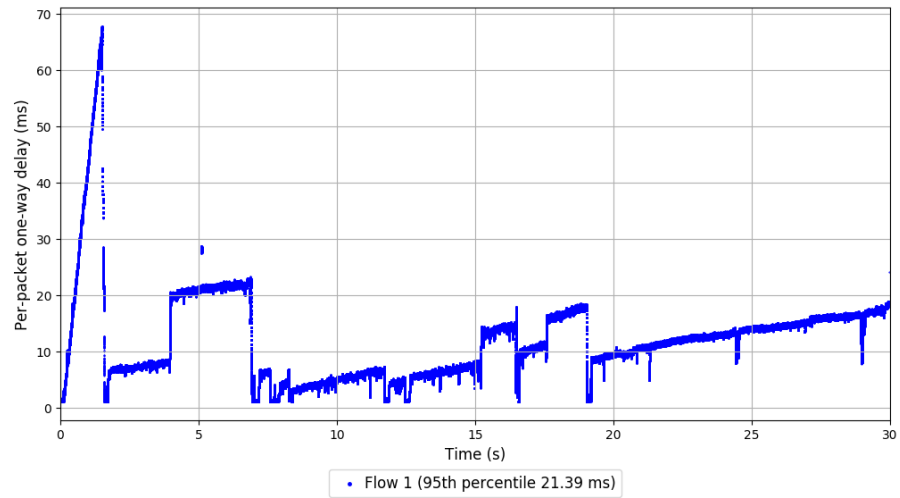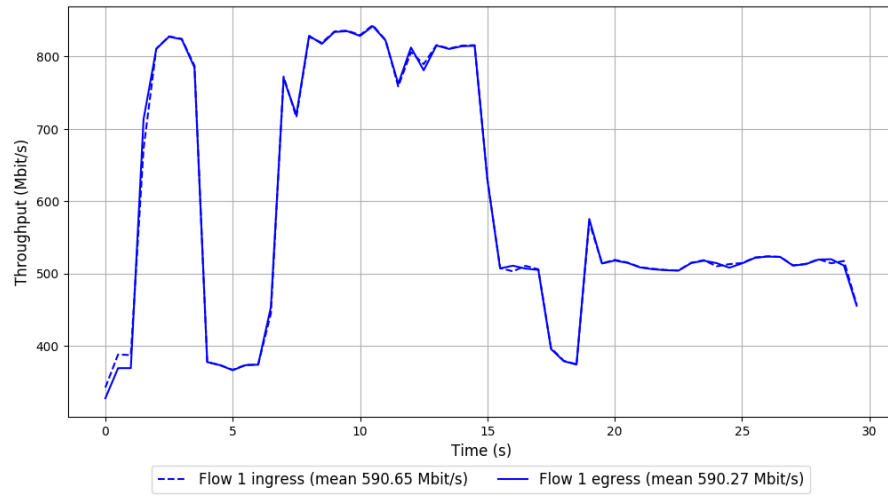
Run 10: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 590.65 Mbit/s)   Flow 1 egress (mean 590.27 Mbit/s)

Flow 1 (95th percentile 21.39 ms)

```
Run 1: Statistics of Indigo

Start at: 2017-08-30 22:55:17
End at: 2017-08-30 22:55:47
Local clock offset: -0.582 ms
Remote clock offset: 0.223 ms


# Below is generated by plot.py at 2017-08-31 06:52:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.89 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.89 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.00%
```
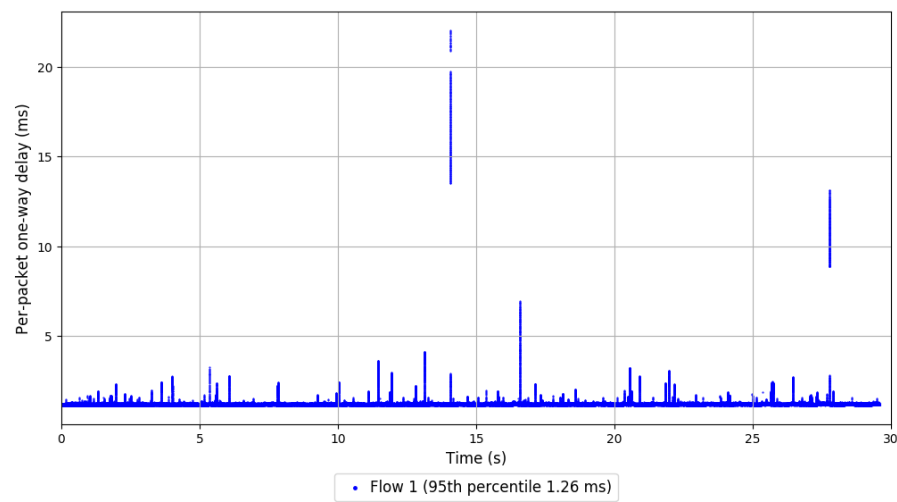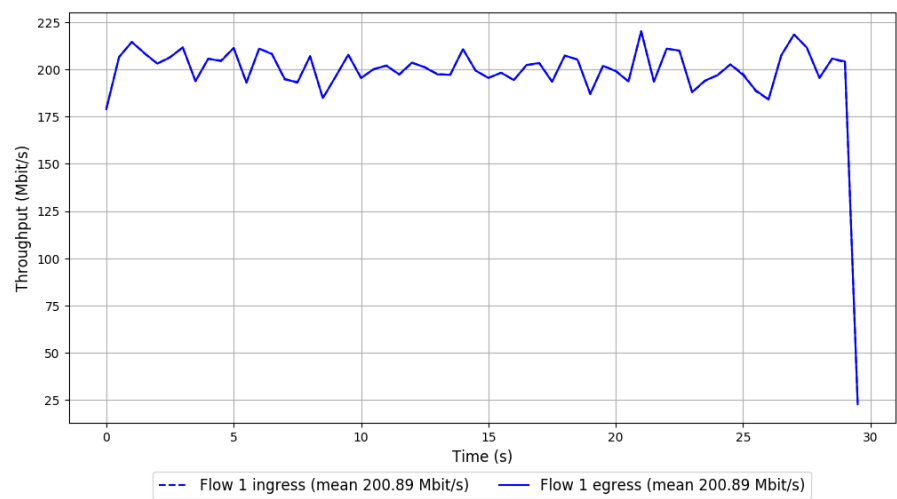
Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2017-08-30 23:14:17
End at: 2017-08-30 23:14:47
Local clock offset: -0.718 ms
Remote clock offset: 0.293 ms


# Below is generated by plot.py at 2017-08-31 06:52:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.46 Mbit/s
95th percentile per-packet one-way delay: 1.432 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 193.46 Mbit/s
95th percentile per-packet one-way delay: 1.432 ms
Loss rate: 0.02%
```
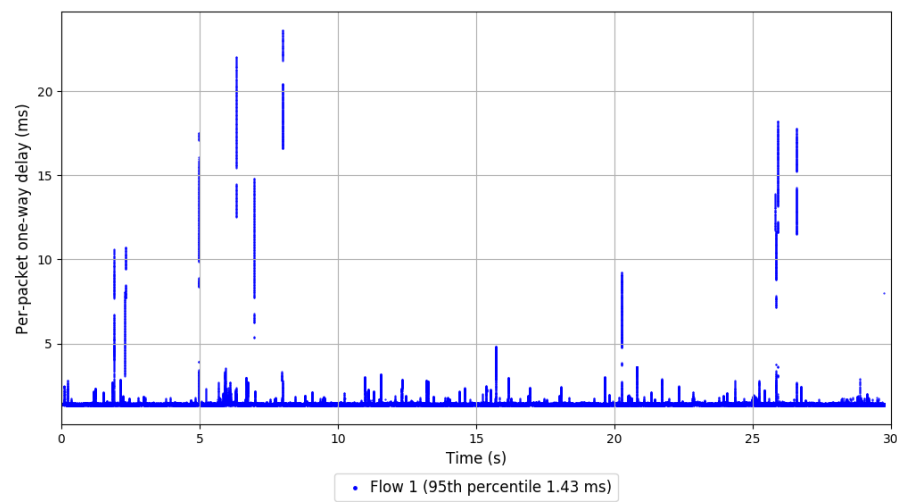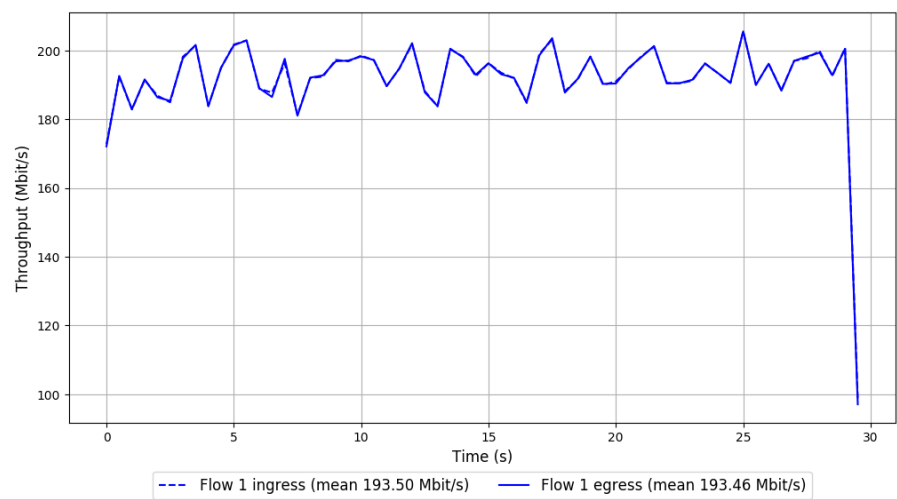
Run 2: Report of Indigo — Data Link

Flow 1 ingress (mean 193.50 Mbit/s)   Flow 1 egress (mean 193.46 Mbit/s)

Flow 1 (95th percentile 1.43 ms)

```
Run 3: Statistics of Indigo

Start at: 2017-08-30 23:33:12
End at: 2017-08-30 23:33:42
Local clock offset: -0.425 ms
Remote clock offset: 0.701 ms


# Below is generated by plot.py at 2017-08-31 06:53:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.78 Mbit/s
95th percentile per-packet one-way delay: 1.393 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.78 Mbit/s
95th percentile per-packet one-way delay: 1.393 ms
Loss rate: 0.00%
```
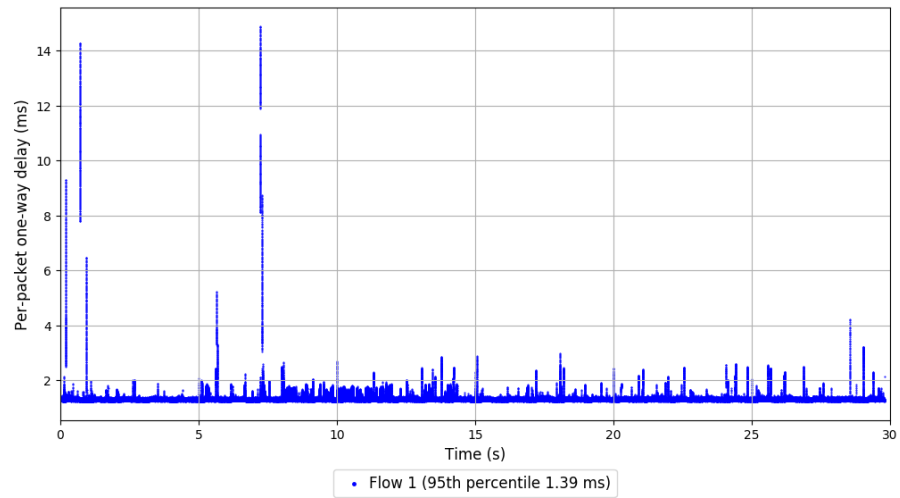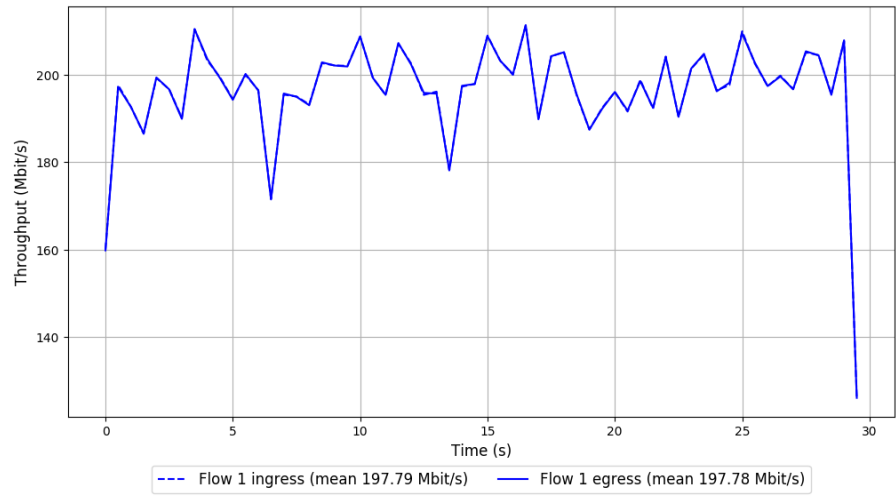
Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2017-08-30 23:52:01
End at: 2017-08-30 23:52:31
Local clock offset: -0.596 ms
Remote clock offset: 0.825 ms


# Below is generated by plot.py at 2017-08-31 06:53:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.09 Mbit/s
95th percentile per-packet one-way delay: 1.313 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.09 Mbit/s
95th percentile per-packet one-way delay: 1.313 ms
Loss rate: 0.00%
```
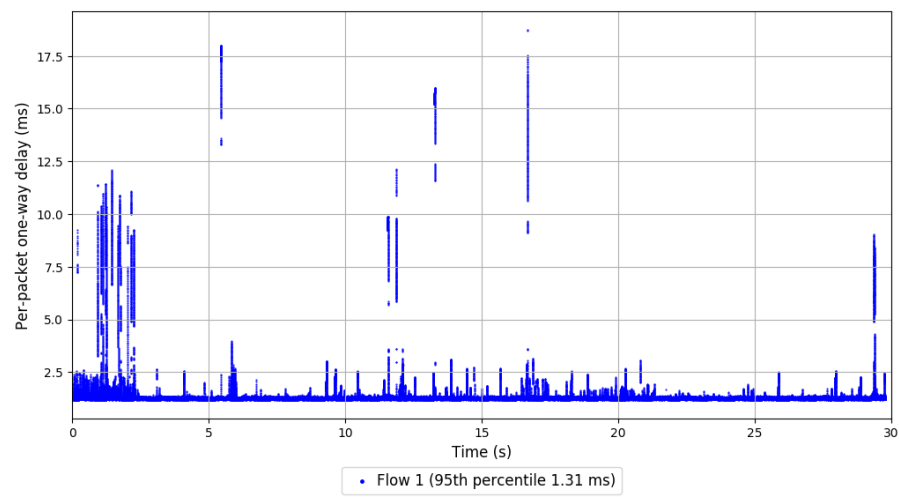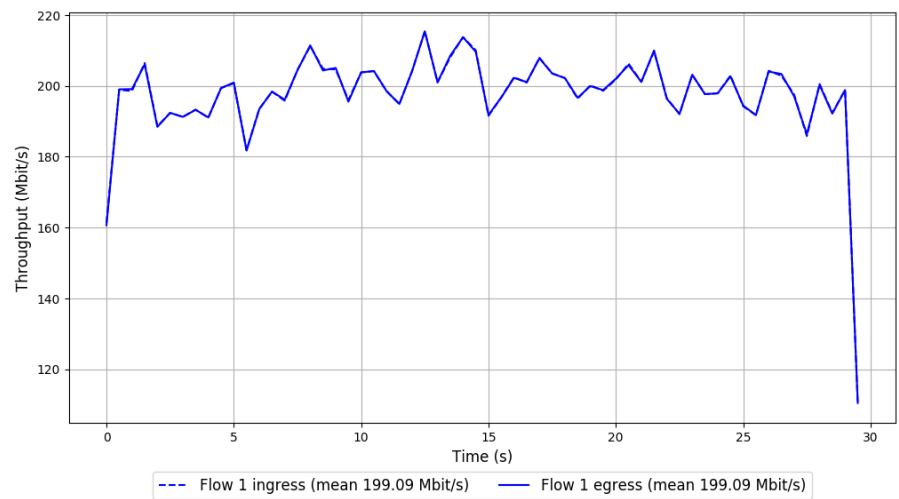
Run 4: Report of Indigo — Data Link

Flow 1 ingress (mean 199.09 Mbit/s)   Flow 1 egress (mean 199.09 Mbit/s)

Flow 1 (95th percentile 1.31 ms)

```
Run 5: Statistics of Indigo

Start at: 2017-08-31 00:10:43
End at: 2017-08-31 00:11:13
Local clock offset: -0.696 ms
Remote clock offset: 0.88 ms


# Below is generated by plot.py at 2017-08-31 06:53:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.51 Mbit/s
95th percentile per-packet one-way delay: 1.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 193.51 Mbit/s
95th percentile per-packet one-way delay: 1.263 ms
Loss rate: 0.00%
```
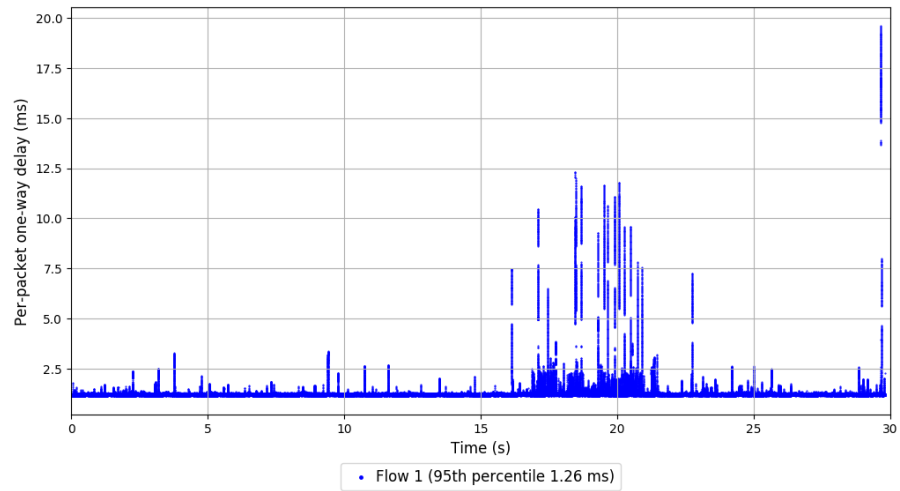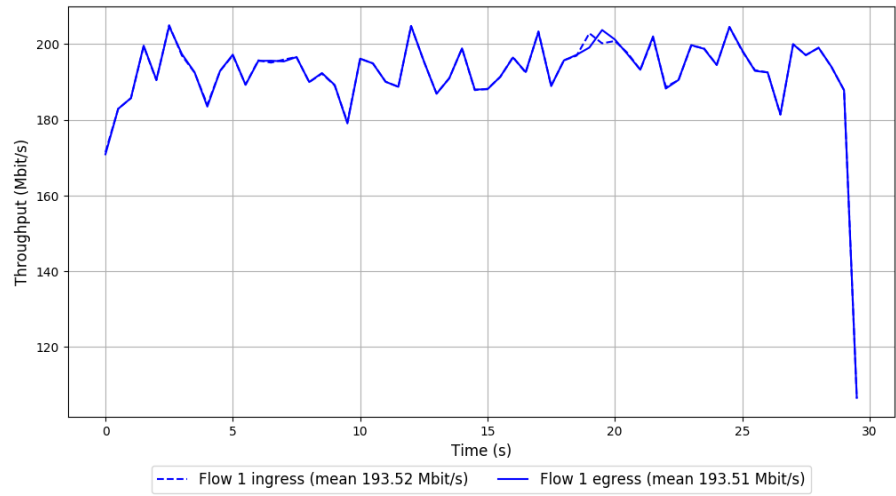
Run 5: Report of Indigo — Data Link

```
Run 6: Statistics of Indigo

Start at: 2017-08-31 00:29:22
End at: 2017-08-31 00:29:52
Local clock offset: -0.743 ms
Remote clock offset: 1.033 ms


# Below is generated by plot.py at 2017-08-31 06:53:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.92 Mbit/s
95th percentile per-packet one-way delay: 1.251 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 188.92 Mbit/s
95th percentile per-packet one-way delay: 1.251 ms
Loss rate: 0.03%
```
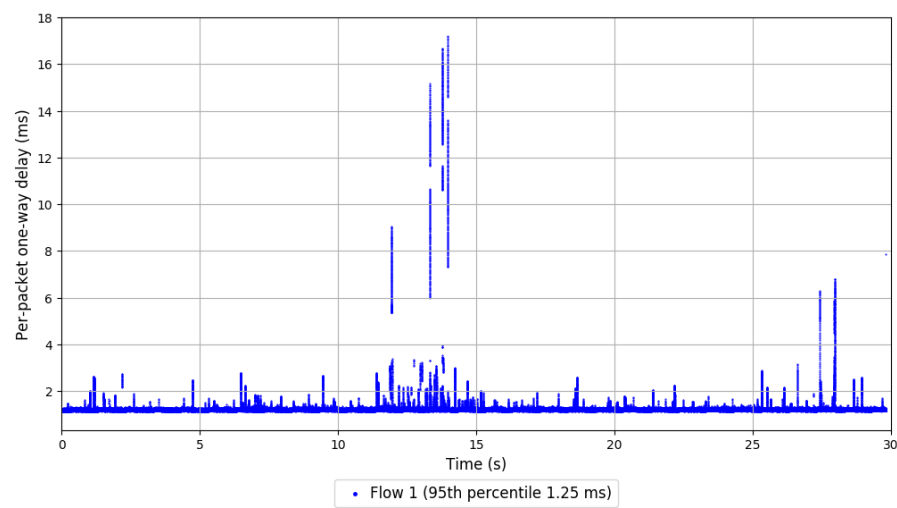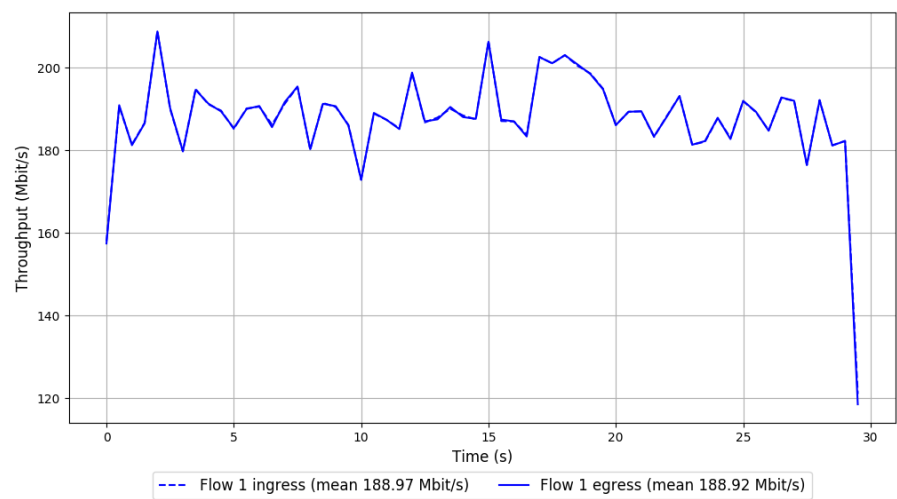
Run 6: Report of Indigo — Data Link

Flow 1 ingress (mean 188.97 Mbit/s)   Flow 1 egress (mean 188.92 Mbit/s)

Flow 1 (95th percentile 1.25 ms)

```
Run 7: Statistics of Indigo

Start at: 2017-08-31 00:48:01
End at: 2017-08-31 00:48:31
Local clock offset: -0.575 ms
Remote clock offset: 1.109 ms


# Below is generated by plot.py at 2017-08-31 06:54:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.93 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.93 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.00%
```
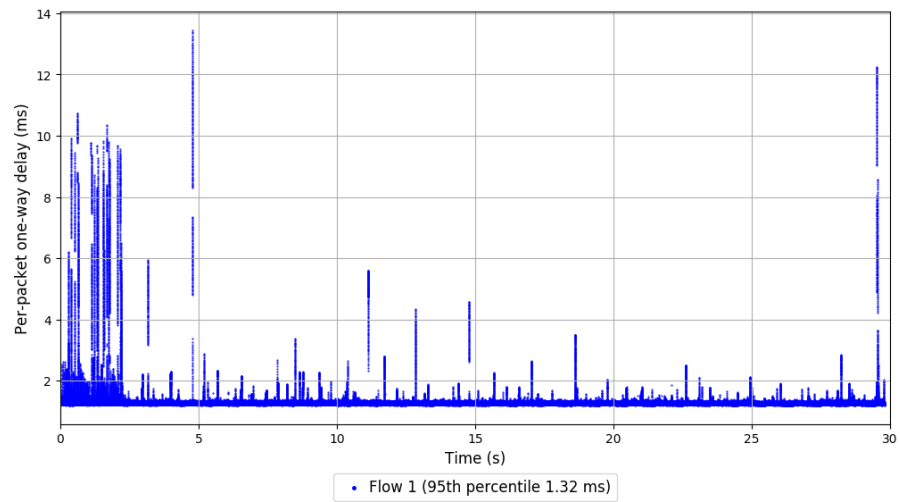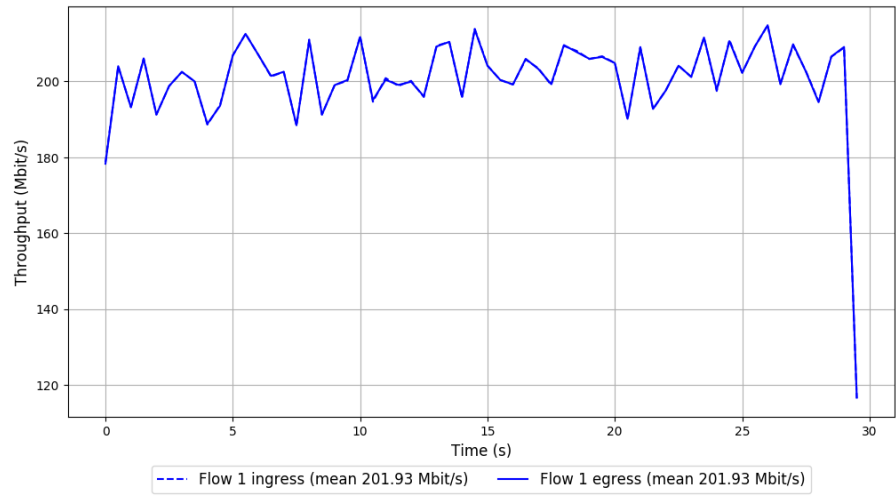
Run 7: Report of Indigo — Data Link

```
Run 8: Statistics of Indigo

Start at: 2017-08-31 01:06:43
End at: 2017-08-31 01:07:13
Local clock offset: -0.864 ms
Remote clock offset: 0.791 ms


# Below is generated by plot.py at 2017-08-31 06:54:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.19 Mbit/s
95th percentile per-packet one-way delay: 1.272 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 193.19 Mbit/s
95th percentile per-packet one-way delay: 1.272 ms
Loss rate: 0.00%
```
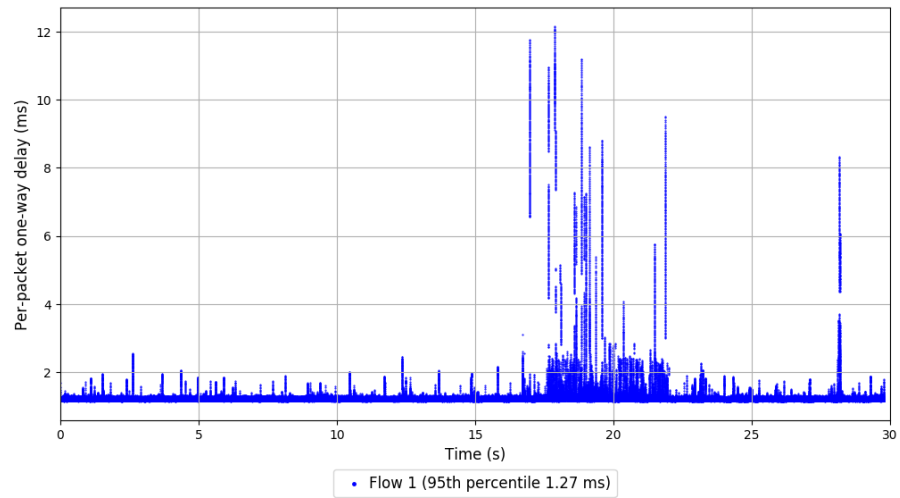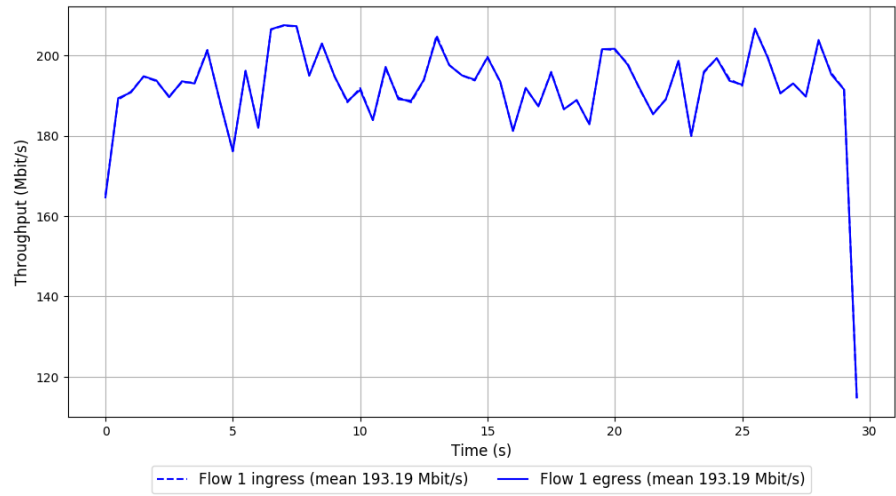
Run 8: Report of Indigo — Data Link

Flow 1 ingress (mean 193.19 Mbit/s)   Flow 1 egress (mean 193.19 Mbit/s)

• Flow 1 (95th percentile 1.27 ms)

```
Run 9: Statistics of Indigo

Start at: 2017-08-31 01:25:32
End at: 2017-08-31 01:26:02
Local clock offset: -0.537 ms
Remote clock offset: 0.74 ms


# Below is generated by plot.py at 2017-08-31 06:54:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.50 Mbit/s
95th percentile per-packet one-way delay: 1.282 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 197.50 Mbit/s
95th percentile per-packet one-way delay: 1.282 ms
Loss rate: 0.02%
```
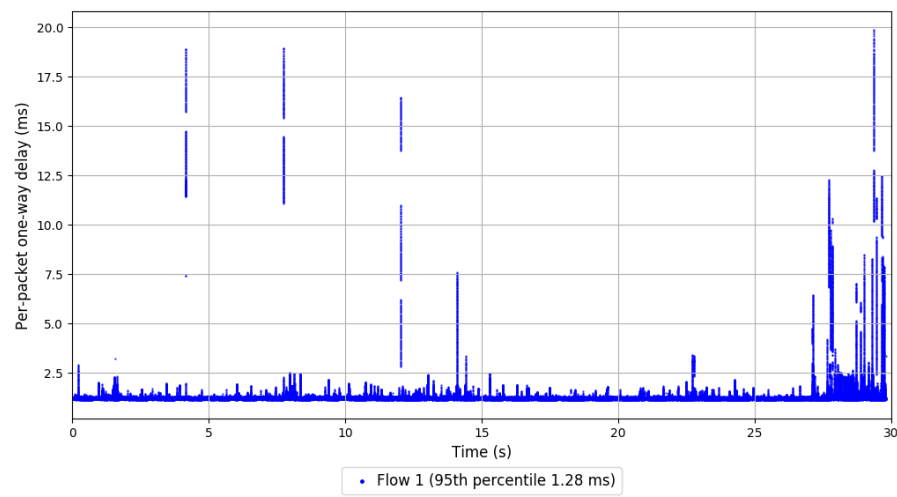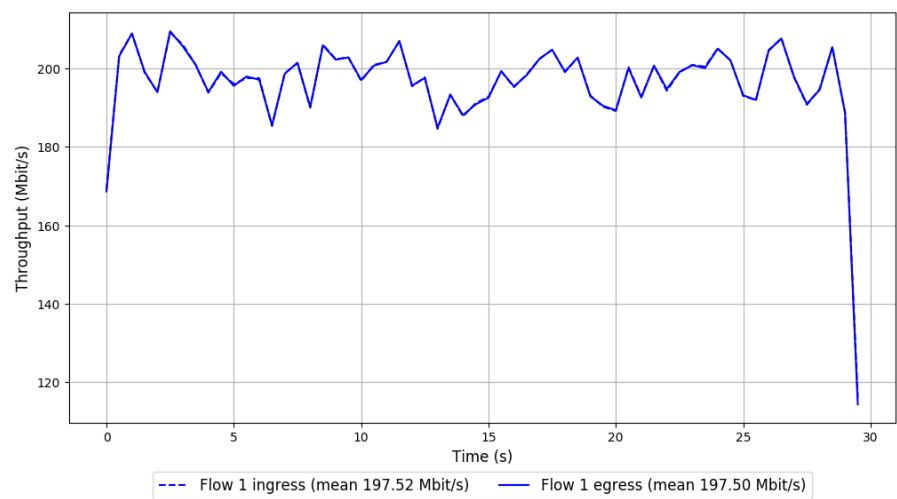
Run 9: Report of Indigo — Data Link

```
Run 10: Statistics of Indigo

Start at: 2017-08-31 01:44:25
End at: 2017-08-31 01:44:55
Local clock offset: -0.713 ms
Remote clock offset: 0.392 ms


# Below is generated by plot.py at 2017-08-31 06:54:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.05 Mbit/s
95th percentile per-packet one-way delay: 1.295 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.05 Mbit/s
95th percentile per-packet one-way delay: 1.295 ms
Loss rate: 0.00%
```
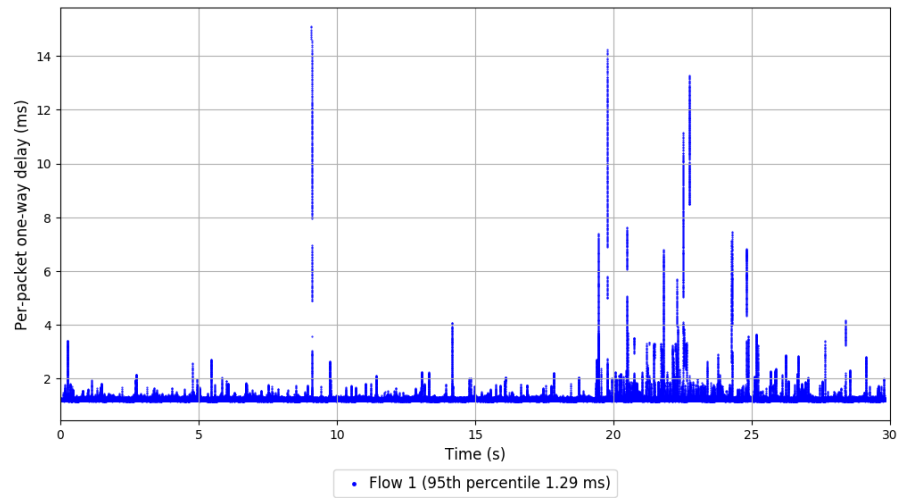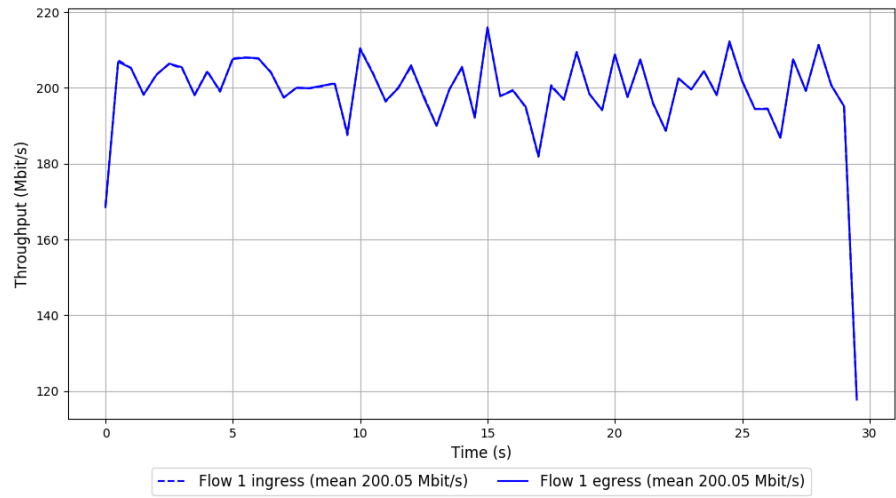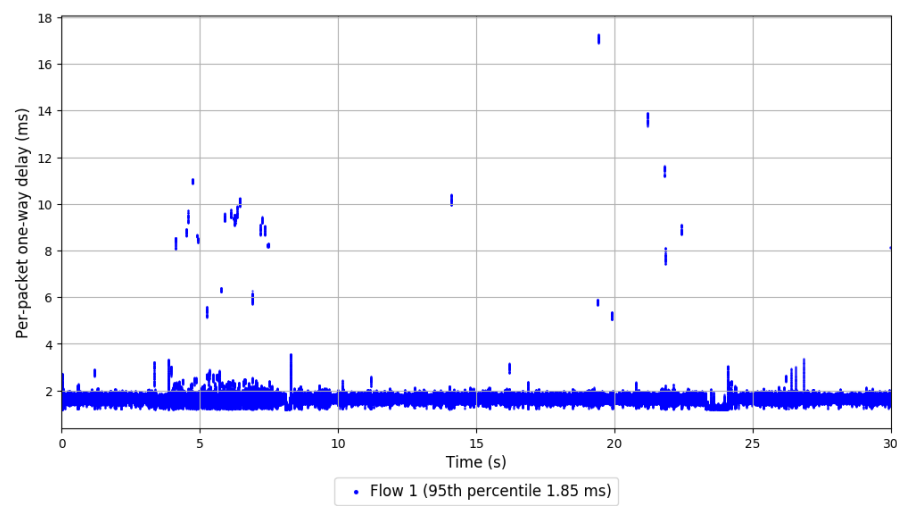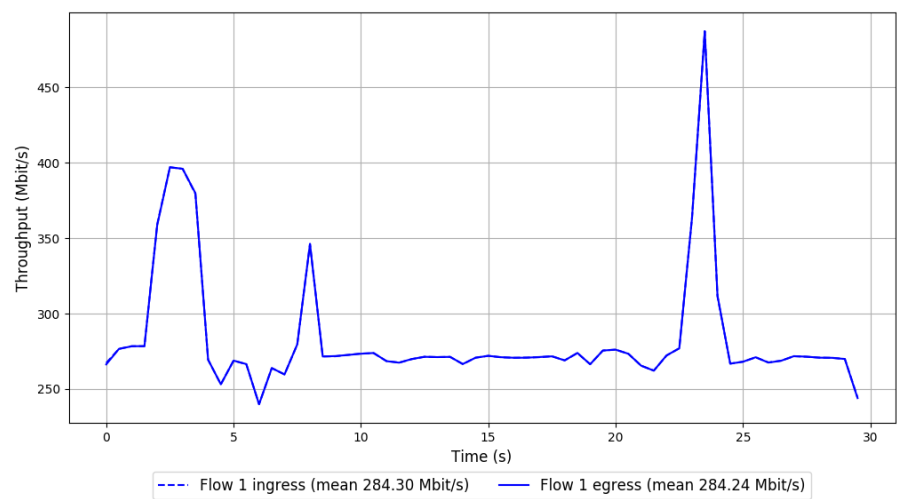
Run 10: Report of Indigo — Data Link

```
Run 1: Statistics of KohoCC

Start at: 2017-08-30 22:57:56
End at: 2017-08-30 22:58:26
Local clock offset: -0.633 ms
Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2017-08-31 06:55:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 284.24 Mbit/s
95th percentile per-packet one-way delay: 1.850 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 284.24 Mbit/s
95th percentile per-packet one-way delay: 1.850 ms
Loss rate: 0.01%
```

Run 1: Report of KohoCC — Data Link

```
Run 2: Statistics of KohoCC

Start at: 2017-08-30 23:16:58
End at: 2017-08-30 23:17:28
Local clock offset: -0.687 ms
Remote clock offset: 0.464 ms

# Below is generated by plot.py at 2017-08-31 06:55:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.83 Mbit/s
95th percentile per-packet one-way delay: 1.378 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 188.83 Mbit/s
95th percentile per-packet one-way delay: 1.378 ms
Loss rate: 0.01%
```
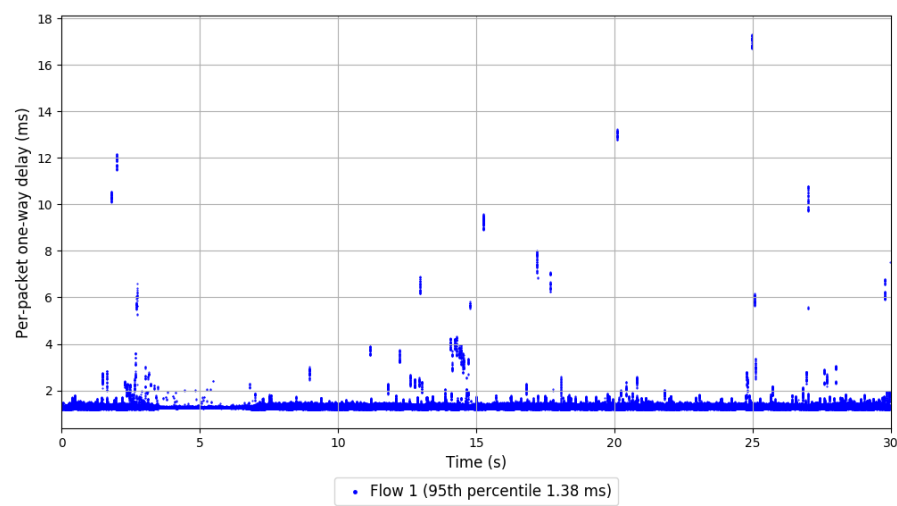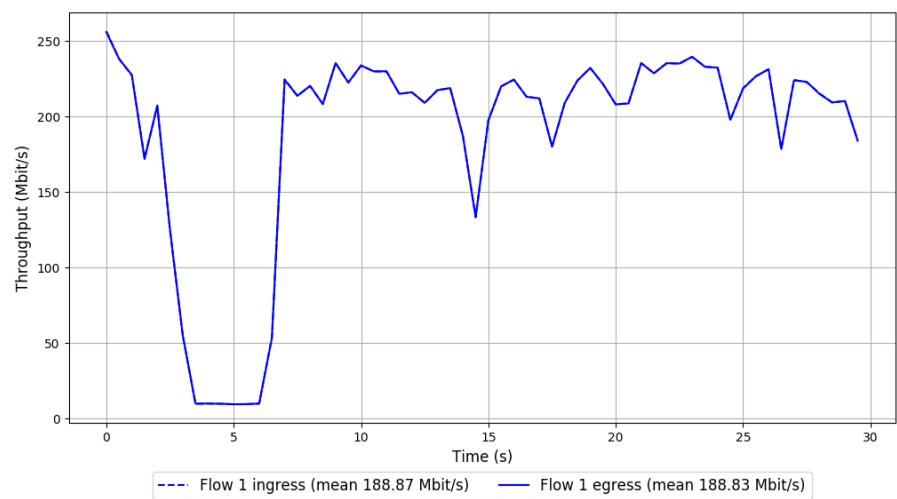
Run 2: Report of KohoCC — Data Link

Flow 1 ingress (mean 188.87 Mbit/s)   Flow 1 egress (mean 188.83 Mbit/s)

Flow 1 (95th percentile 1.38 ms)

```
Run 3: Statistics of KohoCC

Start at: 2017-08-30 23:35:53
End at: 2017-08-30 23:36:23
Local clock offset: -0.421 ms
Remote clock offset: 0.79 ms


# Below is generated by plot.py at 2017-08-31 06:55:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.05 Mbit/s
95th percentile per-packet one-way delay: 1.305 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.05 Mbit/s
95th percentile per-packet one-way delay: 1.305 ms
Loss rate: 0.00%
```
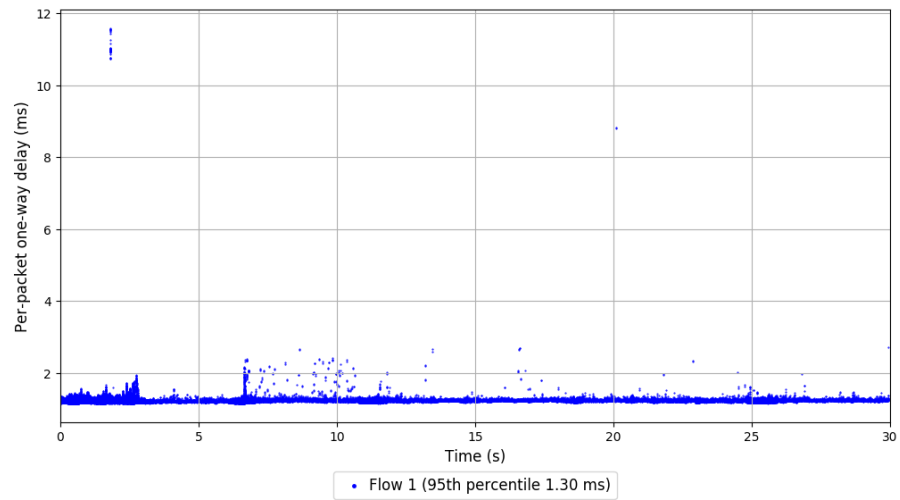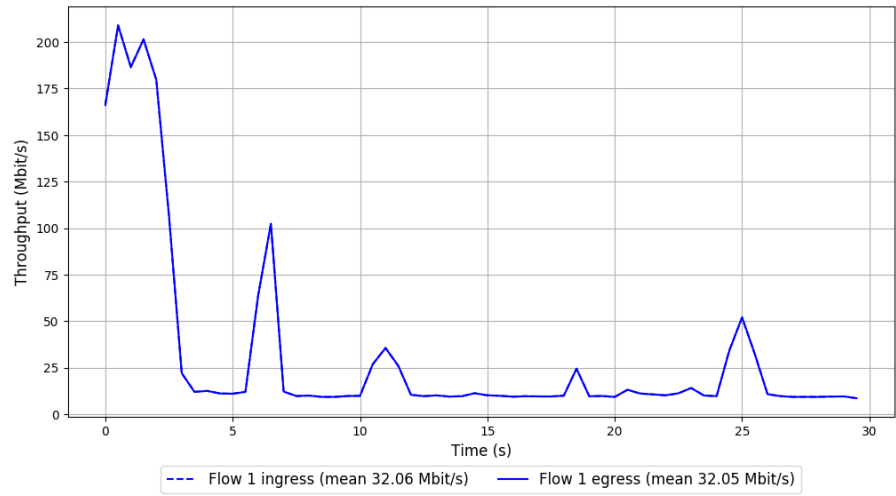
Run 3: Report of KohoCC — Data Link

```
Run 4: Statistics of KohoCC

Start at: 2017-08-30 23:54:42
End at: 2017-08-30 23:55:12
Local clock offset: -0.504 ms
Remote clock offset: 0.981 ms

# Below is generated by plot.py at 2017-08-31 06:55:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.58 Mbit/s
95th percentile per-packet one-way delay: 1.279 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 9.58 Mbit/s
95th percentile per-packet one-way delay: 1.279 ms
Loss rate: 0.01%
```
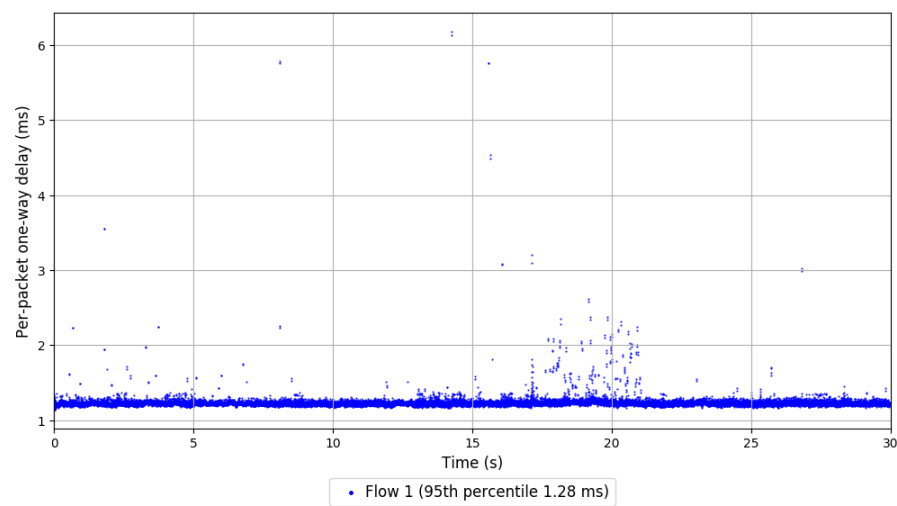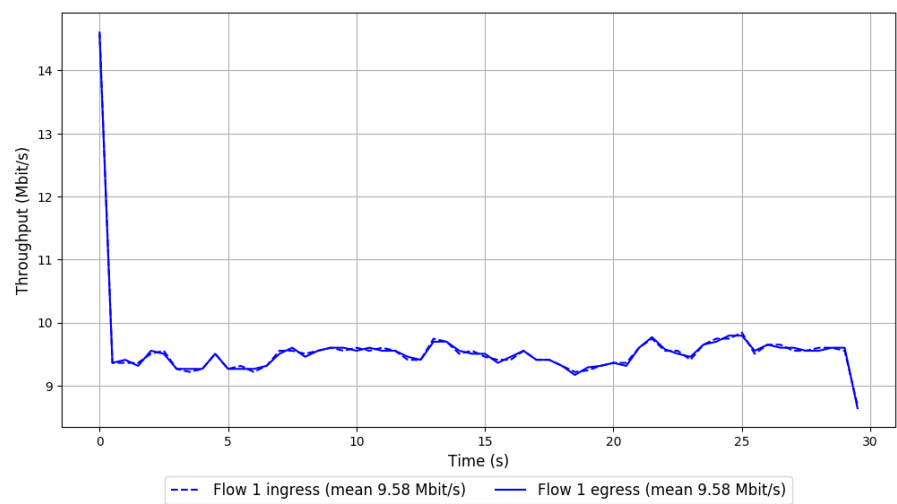
Run 4: Report of KohoCC — Data Link

```
Run 5: Statistics of KohoCC

Start at: 2017-08-31 00:13:21
End at: 2017-08-31 00:13:51
Local clock offset: -0.665 ms
Remote clock offset: 0.953 ms


# Below is generated by plot.py at 2017-08-31 06:55:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.38 Mbit/s
95th percentile per-packet one-way delay: 1.271 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.38 Mbit/s
95th percentile per-packet one-way delay: 1.271 ms
Loss rate: 0.00%
```
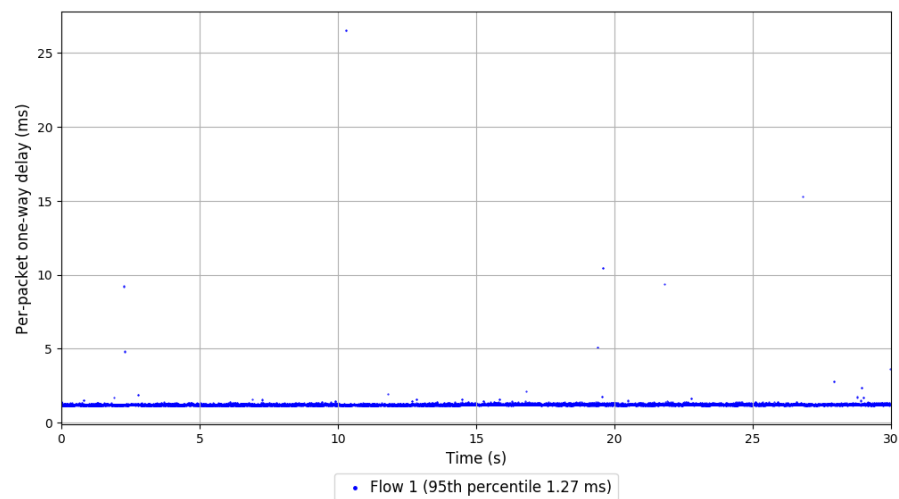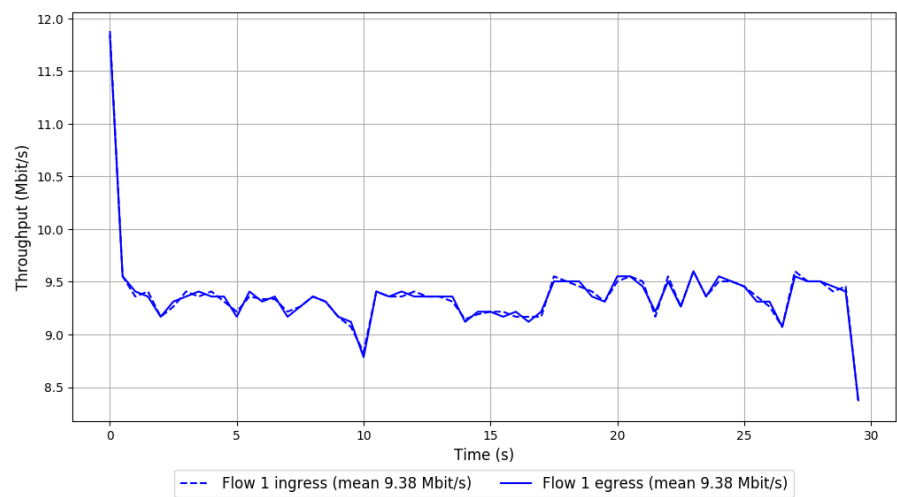
Run 5: Report of KohoCC — Data Link

```
Run 6: Statistics of KohoCC

Start at: 2017-08-31 00:32:02
End at: 2017-08-31 00:32:32
Local clock offset: -0.842 ms
Remote clock offset: 1.018 ms


# Below is generated by plot.py at 2017-08-31 06:55:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.02 Mbit/s
95th percentile per-packet one-way delay: 1.763 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 19.02 Mbit/s
95th percentile per-packet one-way delay: 1.763 ms
Loss rate: 0.00%
```
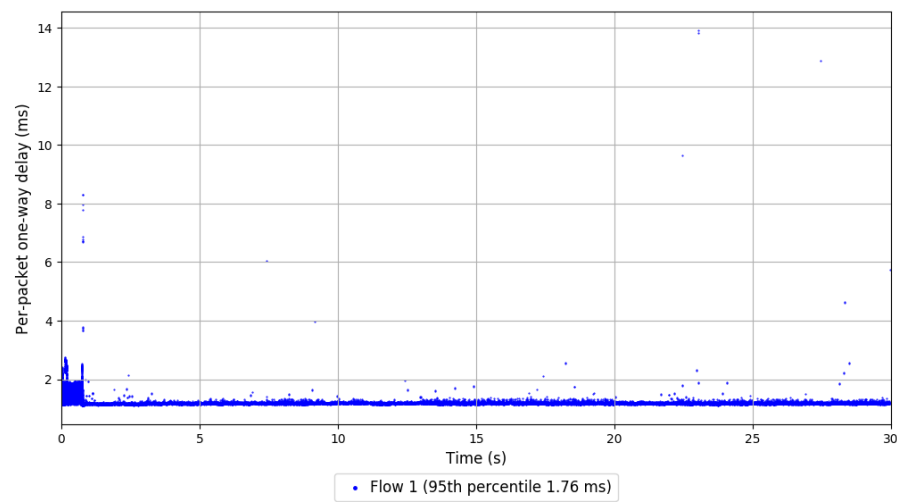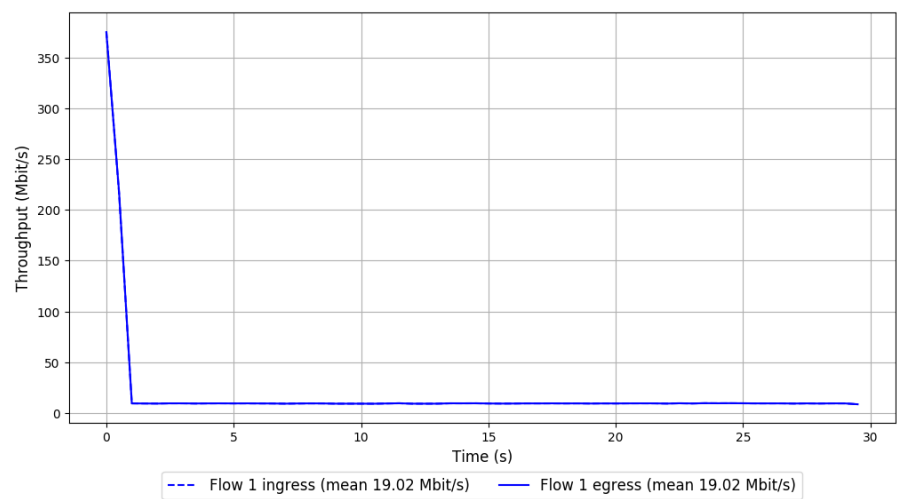
Run 6: Report of KohoCC — Data Link

```
Run 7: Statistics of KohoCC

Start at: 2017-08-31 00:50:41
End at: 2017-08-31 00:51:11
Local clock offset: -0.717 ms
Remote clock offset: 0.968 ms

# Below is generated by plot.py at 2017-08-31 06:55:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.27 Mbit/s
95th percentile per-packet one-way delay: 1.291 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.27 Mbit/s
95th percentile per-packet one-way delay: 1.291 ms
Loss rate: 0.00%
```
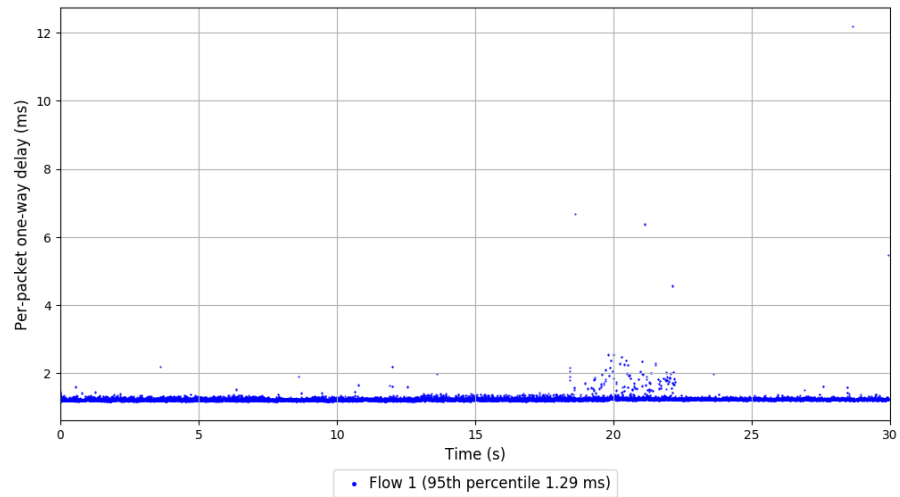
Run 7: Report of KohoCC — Data Link

```
Run 8: Statistics of KohoCC

Start at: 2017-08-31 01:09:23
End at: 2017-08-31 01:09:53
Local clock offset: -0.855 ms
Remote clock offset: 0.709 ms


# Below is generated by plot.py at 2017-08-31 06:55:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 1.347 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 1.347 ms
Loss rate: 0.00%
```
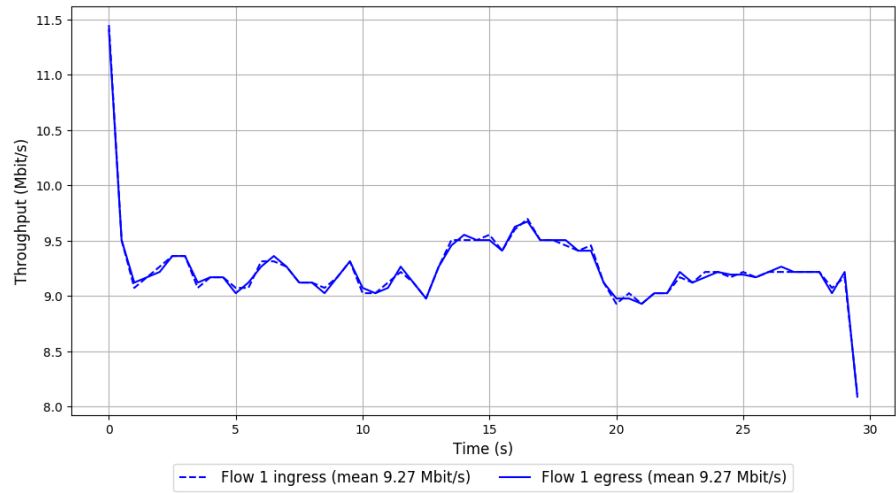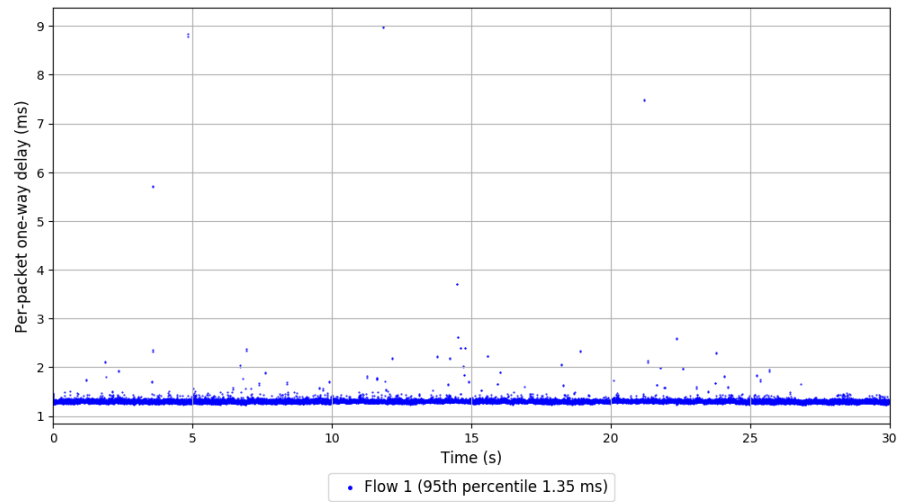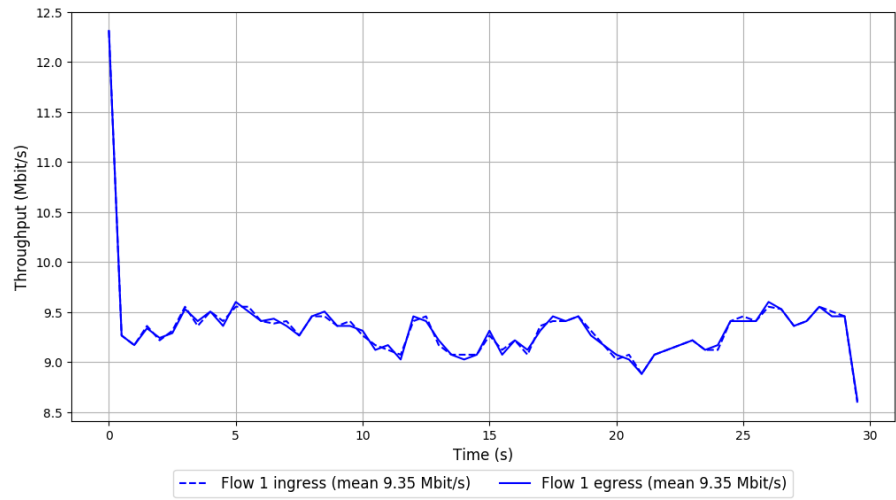
Run 8: Report of KohoCC — Data Link

Flow 1 ingress (mean 9.35 Mbit/s) --- Flow 1 egress (mean 9.35 Mbit/s) —

Flow 1 (95th percentile 1.35 ms)

```
Run 9: Statistics of KohoCC

Start at: 2017-08-31 01:28:14
End at: 2017-08-31 01:28:44
Local clock offset: -0.53 ms
Remote clock offset: 0.691 ms


# Below is generated by plot.py at 2017-08-31 06:55:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.49 Mbit/s
95th percentile per-packet one-way delay: 1.311 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 168.49 Mbit/s
95th percentile per-packet one-way delay: 1.311 ms
Loss rate: 0.01%
```
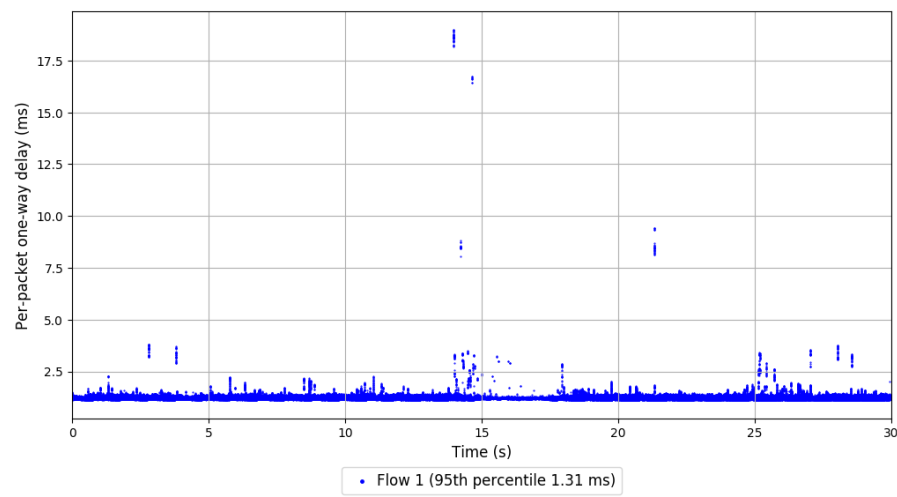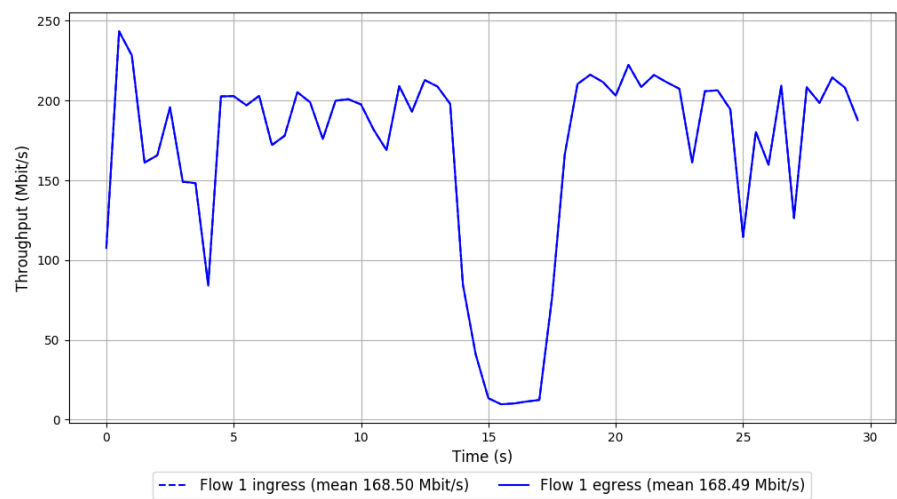
Run 9: Report of KohoCC — Data Link

Flow 1 ingress (mean 168.50 Mbit/s) --- Flow 1 egress (mean 168.49 Mbit/s)

Flow 1 (95th percentile 1.31 ms)

```
Run 10: Statistics of KohoCC

Start at: 2017-08-31 01:47:04
End at: 2017-08-31 01:47:34
Local clock offset: -0.782 ms
Remote clock offset: 0.253 ms


# Below is generated by plot.py at 2017-08-31 06:55:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 289.09 Mbit/s
95th percentile per-packet one-way delay: 1.516 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 289.09 Mbit/s
95th percentile per-packet one-way delay: 1.516 ms
Loss rate: 0.01%
```
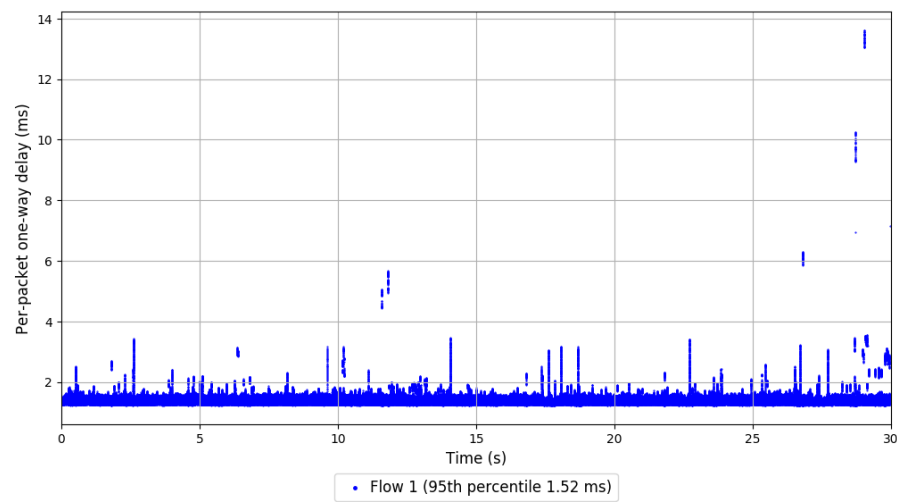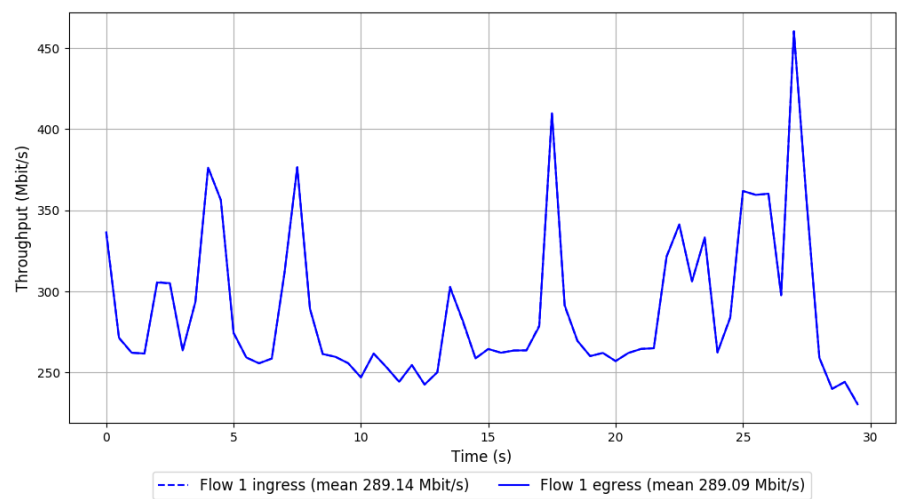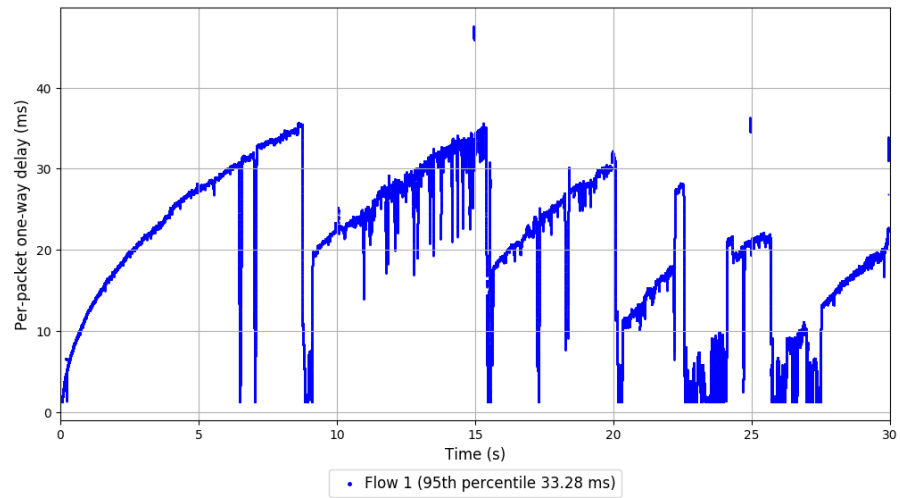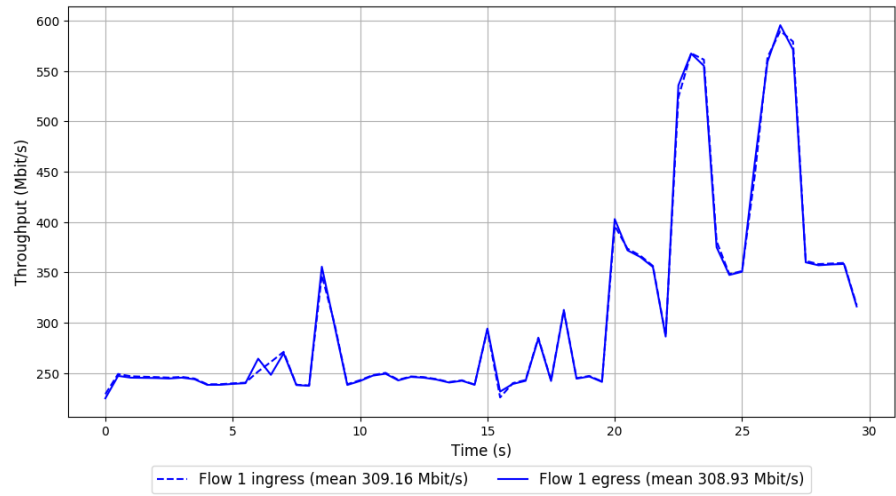
Run 10: Report of KohoCC — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2017-08-30 23:00:49
End at: 2017-08-30 23:01:20
Local clock offset: -0.642 ms
Remote clock offset: 0.16 ms


# Below is generated by plot.py at 2017-08-31 06:56:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 308.93 Mbit/s
95th percentile per-packet one-way delay: 33.276 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 308.93 Mbit/s
95th percentile per-packet one-way delay: 33.276 ms
Loss rate: 0.08%
```

Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2017-08-30 23:19:43
End at: 2017-08-30 23:20:13
Local clock offset: -0.561 ms
Remote clock offset: 0.602 ms


# Below is generated by plot.py at 2017-08-31 06:56:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 333.43 Mbit/s
95th percentile per-packet one-way delay: 26.253 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 333.43 Mbit/s
95th percentile per-packet one-way delay: 26.253 ms
Loss rate: 0.03%
```
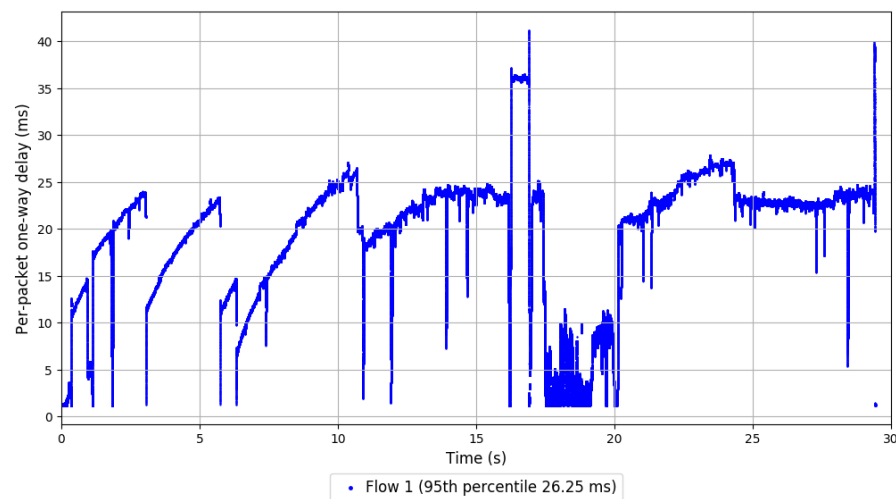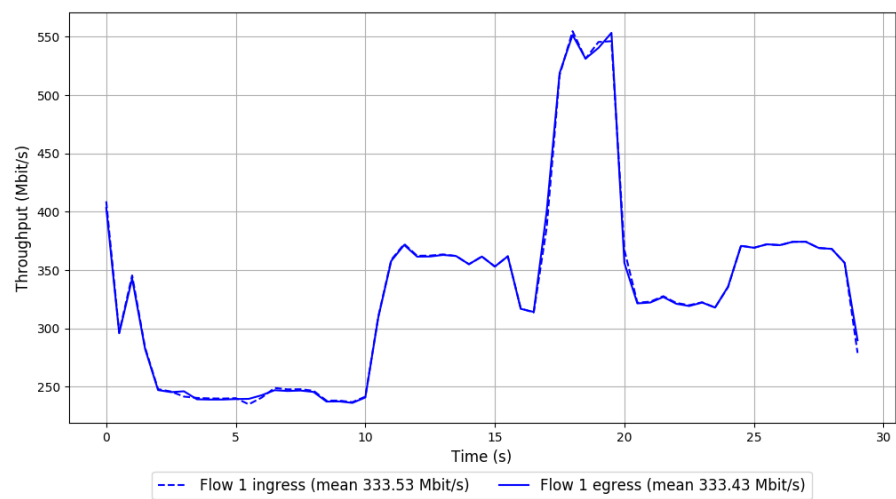
Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 333.53 Mbit/s) --- Flow 1 egress (mean 333.43 Mbit/s)

• Flow 1 (95th percentile 26.25 ms)

```
Run 3: Statistics of LEDBAT

Start at: 2017-08-30 23:38:31
End at: 2017-08-30 23:39:01
Local clock offset: -0.36 ms
Remote clock offset: 0.763 ms


# Below is generated by plot.py at 2017-08-31 06:56:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 308.59 Mbit/s
95th percentile per-packet one-way delay: 36.266 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 308.59 Mbit/s
95th percentile per-packet one-way delay: 36.266 ms
Loss rate: 0.08%
```
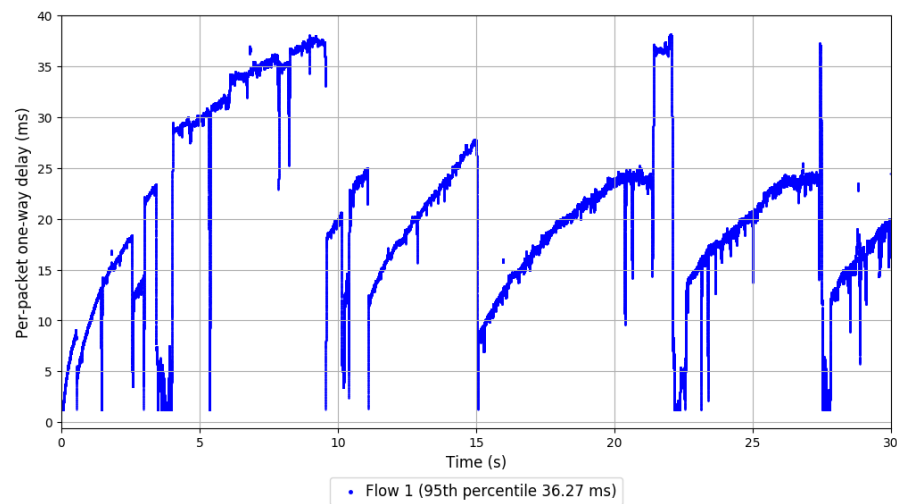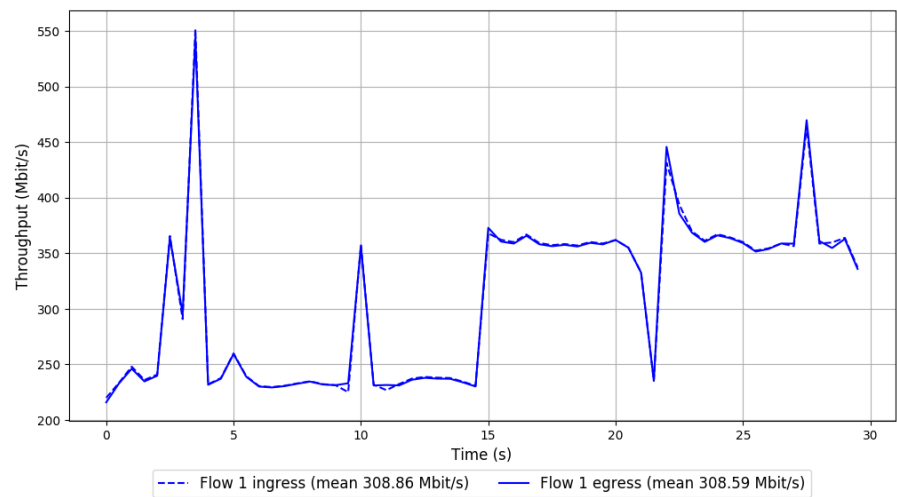
Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 308.86 Mbit/s)   Flow 1 egress (mean 308.59 Mbit/s)

• Flow 1 (95th percentile 36.27 ms)

```
Run 4: Statistics of LEDBAT

Start at: 2017-08-30 23:57:18
End at: 2017-08-30 23:57:48
Local clock offset: -0.475 ms
Remote clock offset: 1.049 ms


# Below is generated by plot.py at 2017-08-31 06:57:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 351.27 Mbit/s
95th percentile per-packet one-way delay: 30.064 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 351.27 Mbit/s
95th percentile per-packet one-way delay: 30.064 ms
Loss rate: 0.05%
```
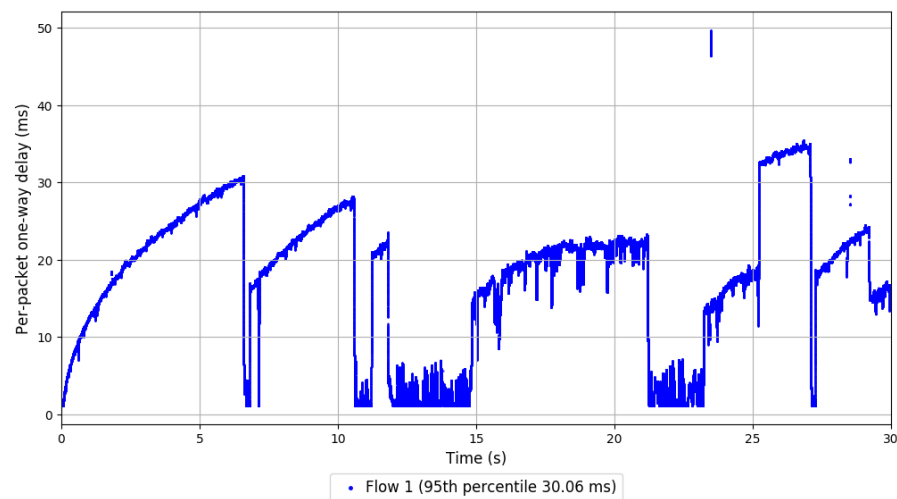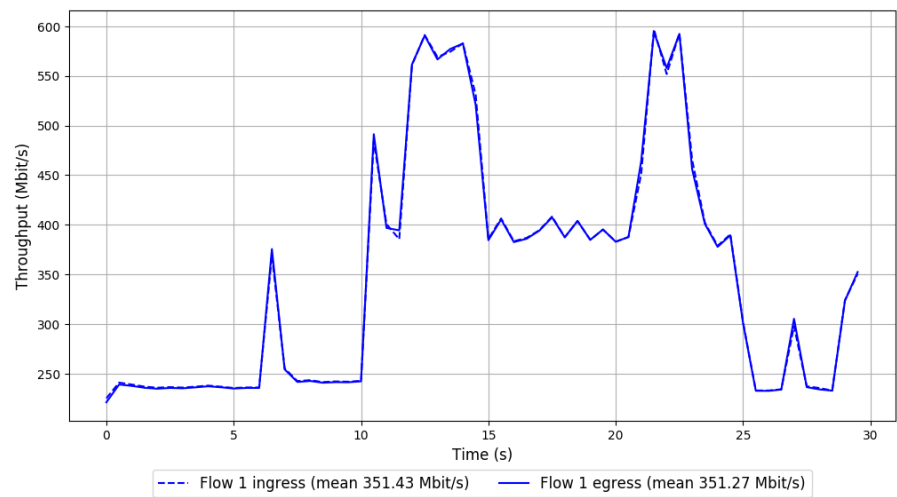
Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 351.43 Mbit/s)   Flow 1 egress (mean 351.27 Mbit/s)

Flow 1 (95th percentile 30.06 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2017-08-31 00:16:00
End at: 2017-08-31 00:16:30
Local clock offset: -0.642 ms
Remote clock offset: 0.931 ms


# Below is generated by plot.py at 2017-08-31 06:57:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.12 Mbit/s
95th percentile per-packet one-way delay: 37.310 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 317.12 Mbit/s
95th percentile per-packet one-way delay: 37.310 ms
Loss rate: 0.09%
```
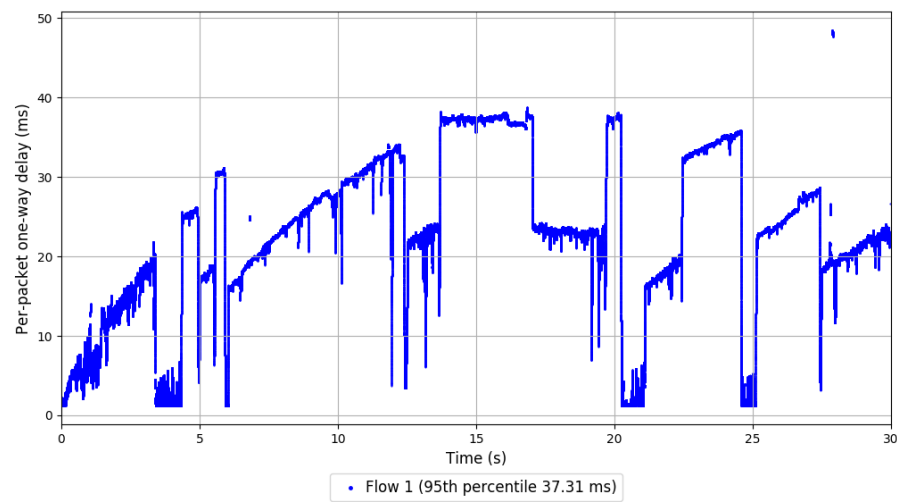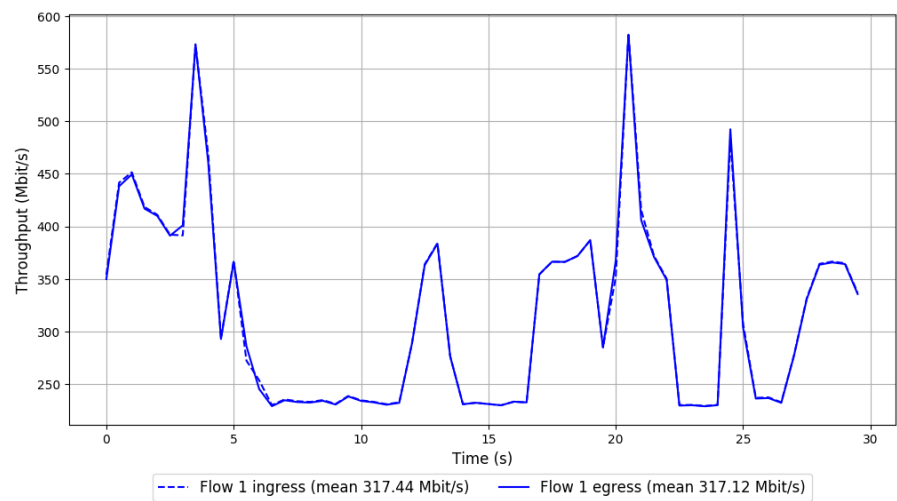
Run 5: Report of LEDBAT — Data Link

```
Run 6: Statistics of LEDBAT

Start at: 2017-08-31 00:34:37
End at: 2017-08-31 00:35:07
Local clock offset: -0.793 ms
Remote clock offset: 1.024 ms


# Below is generated by plot.py at 2017-08-31 06:57:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 355.07 Mbit/s
95th percentile per-packet one-way delay: 31.722 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 355.07 Mbit/s
95th percentile per-packet one-way delay: 31.722 ms
Loss rate: 0.08%
```
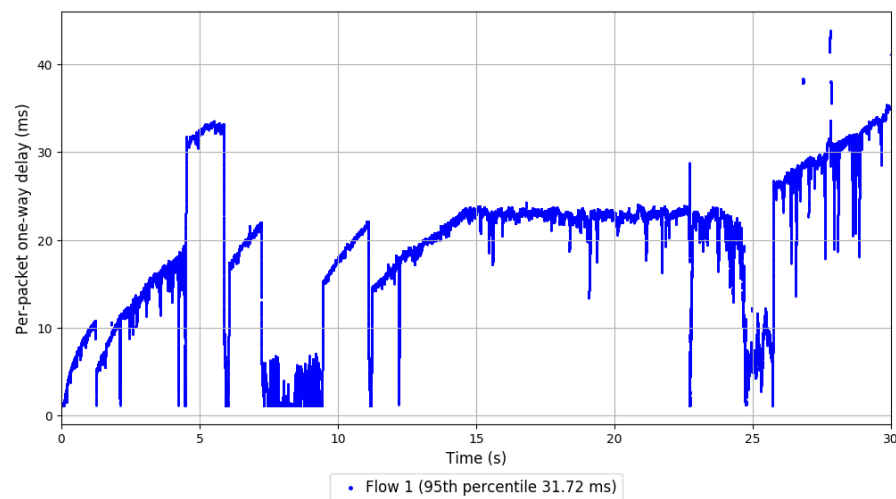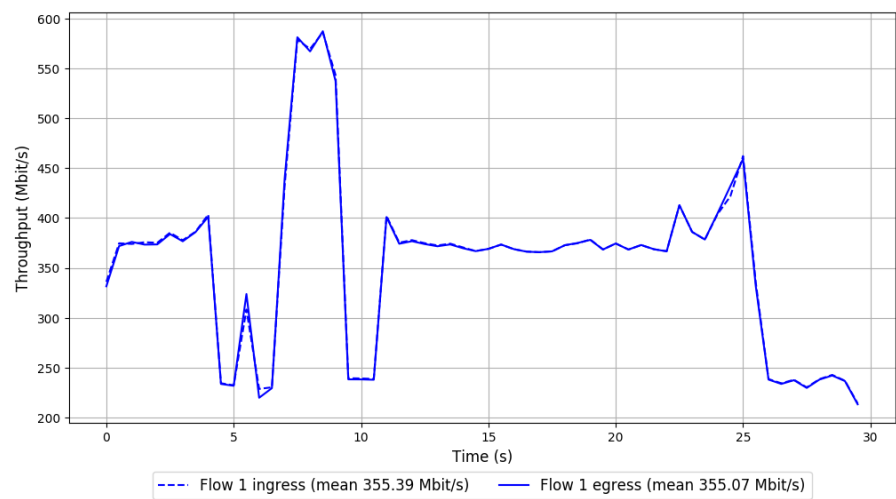
Run 6: Report of LEDBAT — Data Link

```
Run 7: Statistics of LEDBAT

Start at: 2017-08-31 00:53:17
End at: 2017-08-31 00:53:47
Local clock offset: -0.804 ms
Remote clock offset: 0.859 ms

# Below is generated by plot.py at 2017-08-31 06:58:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 320.94 Mbit/s
95th percentile per-packet one-way delay: 37.333 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 320.94 Mbit/s
95th percentile per-packet one-way delay: 37.333 ms
Loss rate: 0.07%
```
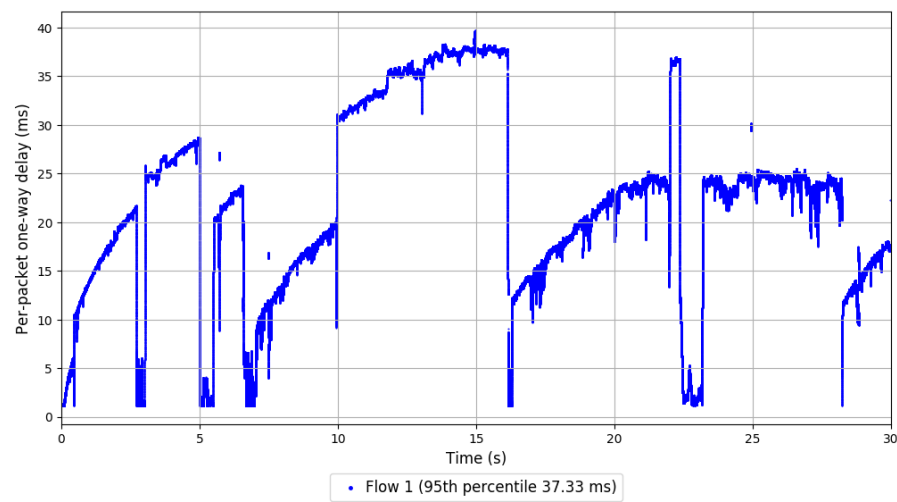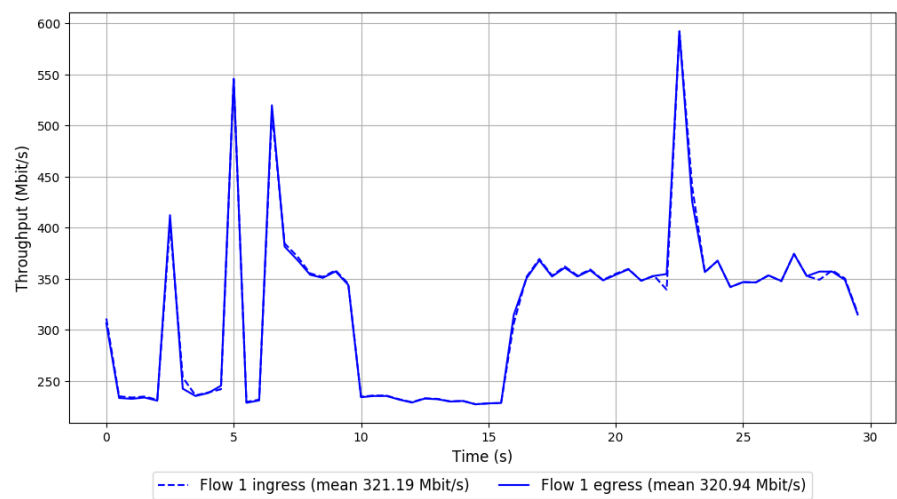
Run 7: Report of LEDBAT — Data Link

Flow 1 ingress (mean 321.19 Mbit/s) — Flow 1 egress (mean 320.94 Mbit/s)

Flow 1 (95th percentile 37.33 ms)

```
Run 8: Statistics of LEDBAT

Start at: 2017-08-31 01:11:58
End at: 2017-08-31 01:12:28
Local clock offset: -0.845 ms
Remote clock offset: 0.747 ms


# Below is generated by plot.py at 2017-08-31 06:58:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 385.49 Mbit/s
95th percentile per-packet one-way delay: 22.895 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 385.49 Mbit/s
95th percentile per-packet one-way delay: 22.895 ms
Loss rate: 0.06%
```
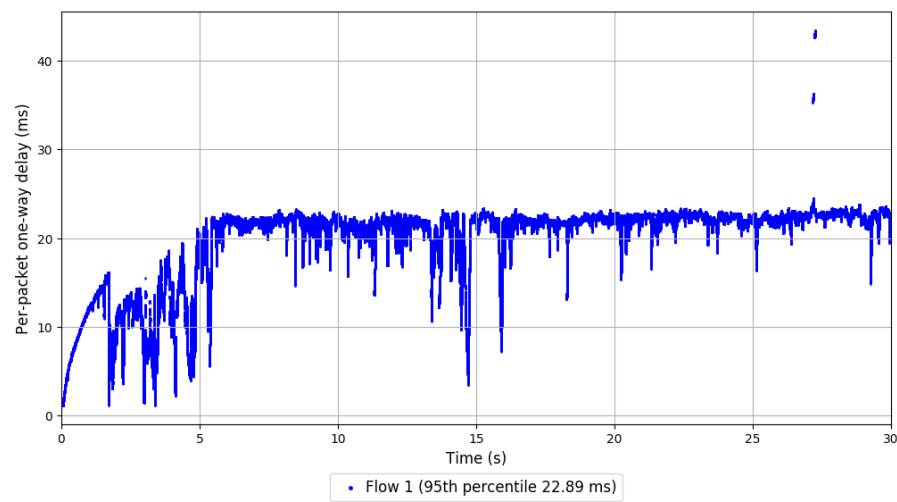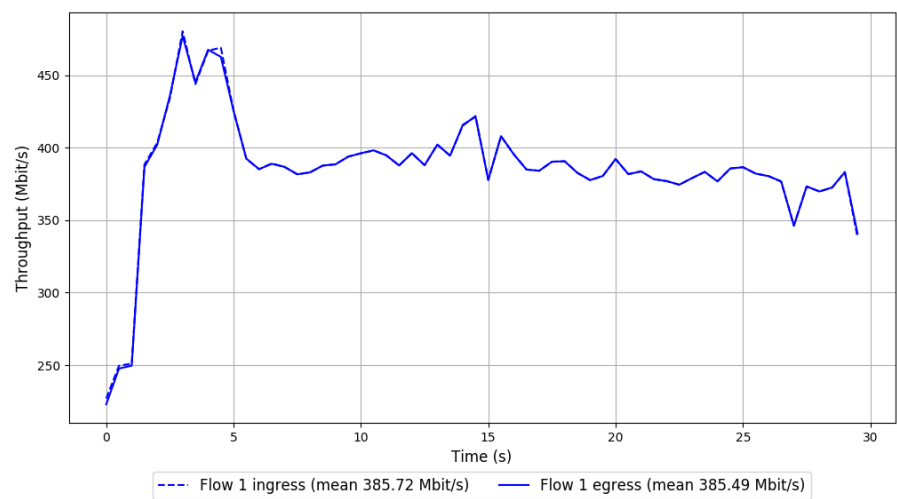
Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 385.72 Mbit/s)   Flow 1 egress (mean 385.49 Mbit/s)

Flow 1 (95th percentile 22.89 ms)

```
Run 9: Statistics of LEDBAT

Start at: 2017-08-31 01:30:59
End at: 2017-08-31 01:31:29
Local clock offset: -0.57 ms
Remote clock offset: 0.556 ms


# Below is generated by plot.py at 2017-08-31 06:58:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 265.04 Mbit/s
95th percentile per-packet one-way delay: 37.590 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 265.04 Mbit/s
95th percentile per-packet one-way delay: 37.590 ms
Loss rate: 0.11%
```
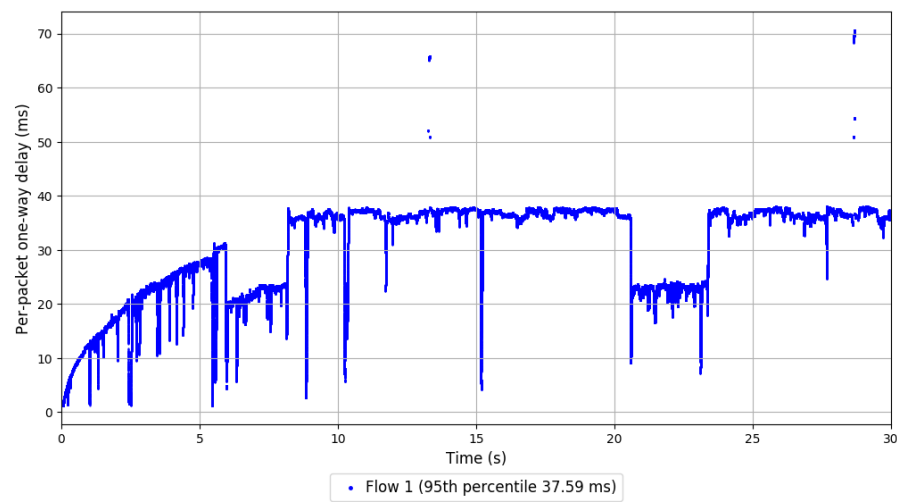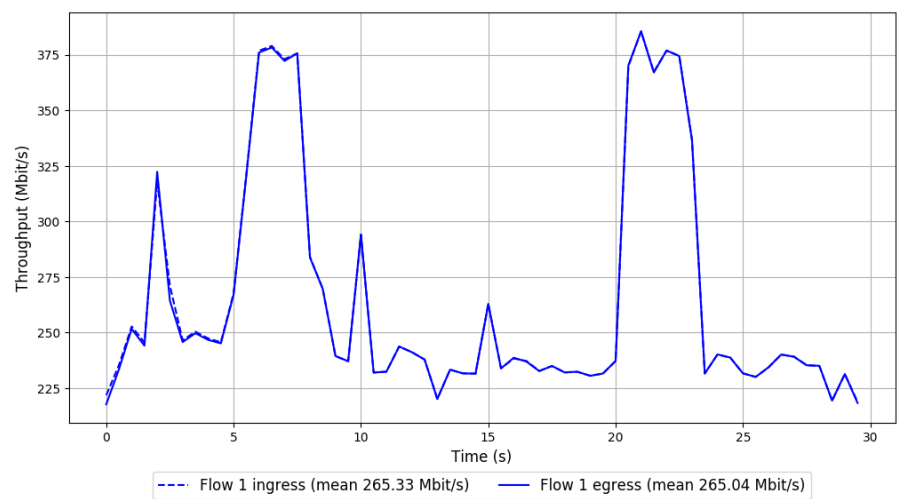
Run 9: Report of LEDBAT — Data Link

Flow 1 ingress (mean 265.33 Mbit/s)   Flow 1 egress (mean 265.04 Mbit/s)

Flow 1 (95th percentile 37.59 ms)

```
Run 10: Statistics of LEDBAT

Start at: 2017-08-31 01:49:57
End at: 2017-08-31 01:50:28
Local clock offset: -0.908 ms
Remote clock offset: 0.249 ms


# Below is generated by plot.py at 2017-08-31 06:59:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 395.34 Mbit/s
95th percentile per-packet one-way delay: 22.782 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 395.34 Mbit/s
95th percentile per-packet one-way delay: 22.782 ms
Loss rate: 0.07%
```
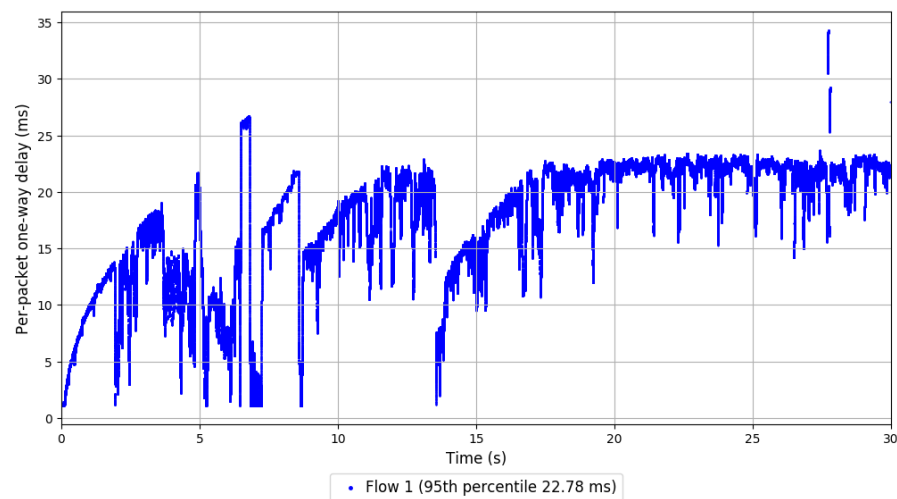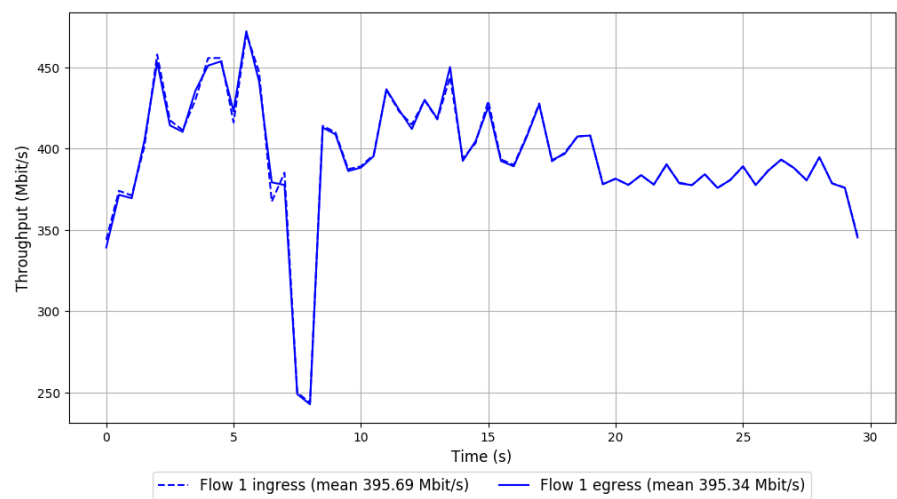
Run 10: Report of LEDBAT — Data Link

Flow 1 ingress (mean 395.69 Mbit/s)   Flow 1 egress (mean 395.34 Mbit/s)
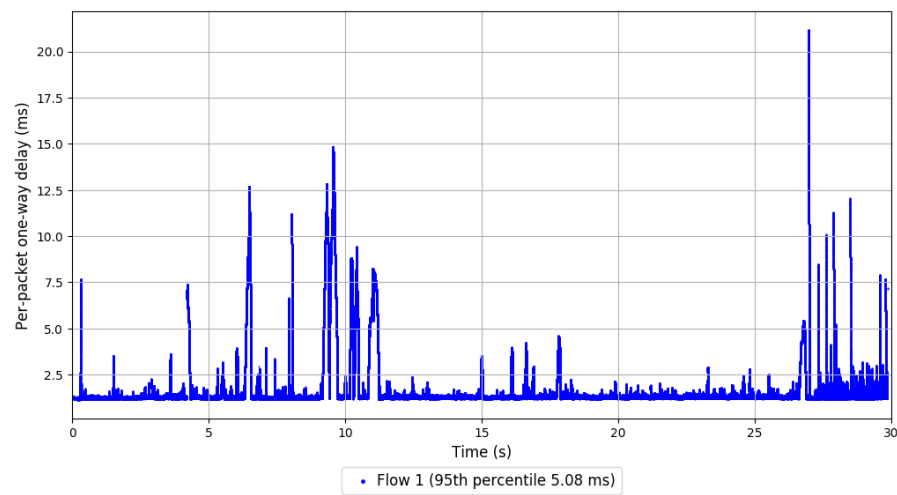
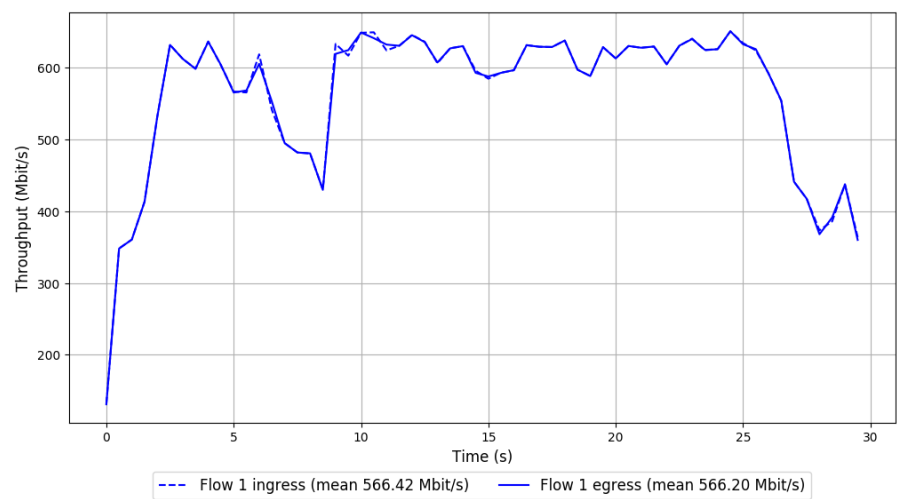

• Flow 1 (95th percentile 22.78 ms)

```
Run 1: Statistics of PCC

Start at: 2017-08-30 22:56:33
End at: 2017-08-30 22:57:03
Local clock offset: -0.55 ms
Remote clock offset: 0.238 ms


# Below is generated by plot.py at 2017-08-31 07:00:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 566.20 Mbit/s
95th percentile per-packet one-way delay: 5.083 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 566.20 Mbit/s
95th percentile per-packet one-way delay: 5.083 ms
Loss rate: 0.03%
```

Run 1: Report of PCC — Data Link

```
Run 2: Statistics of PCC

Start at: 2017-08-30 23:15:33
End at: 2017-08-30 23:16:03
Local clock offset: -0.7 ms
Remote clock offset: 0.465 ms

# Below is generated by plot.py at 2017-08-31 07:00:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 608.10 Mbit/s
95th percentile per-packet one-way delay: 19.713 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 608.10 Mbit/s
95th percentile per-packet one-way delay: 19.713 ms
Loss rate: 0.03%
```
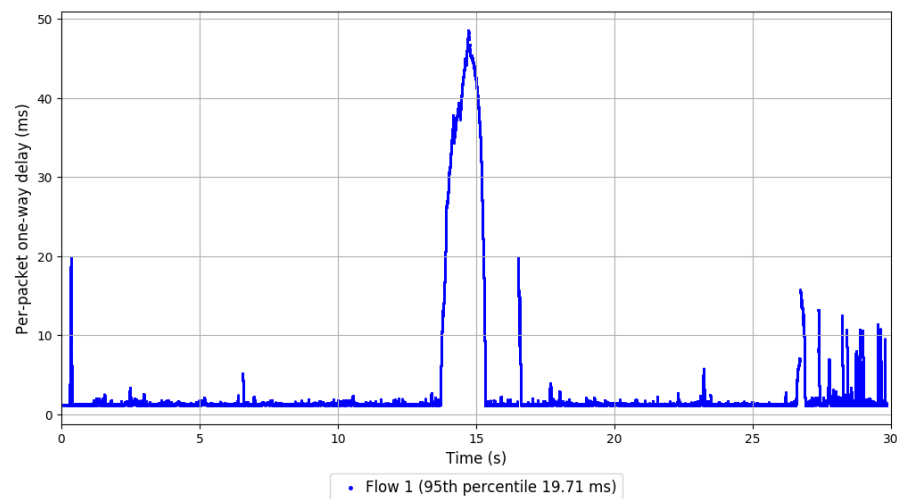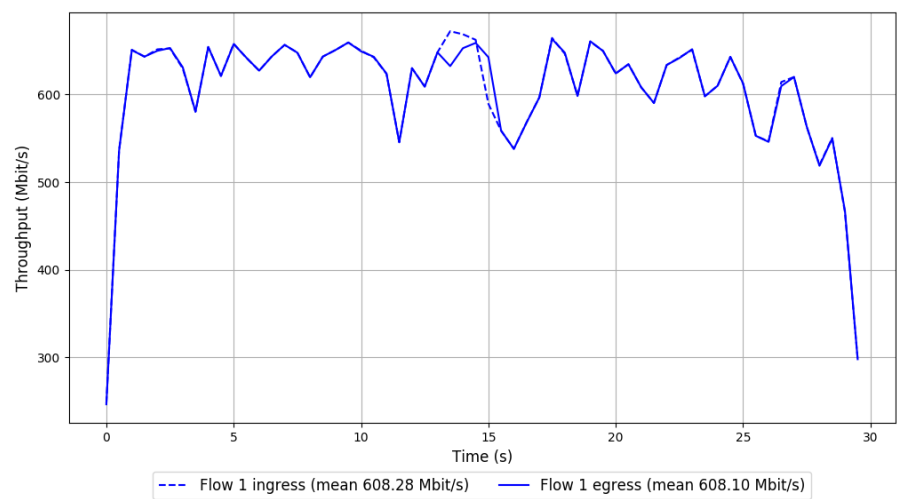
Run 2: Report of PCC — Data Link

```
Run 3: Statistics of PCC

Start at: 2017-08-30 23:34:28
End at: 2017-08-30 23:34:58
Local clock offset: -0.443 ms
Remote clock offset: 0.756 ms


# Below is generated by plot.py at 2017-08-31 07:01:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.94 Mbit/s
95th percentile per-packet one-way delay: 1.635 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 593.94 Mbit/s
95th percentile per-packet one-way delay: 1.635 ms
Loss rate: 0.02%
```
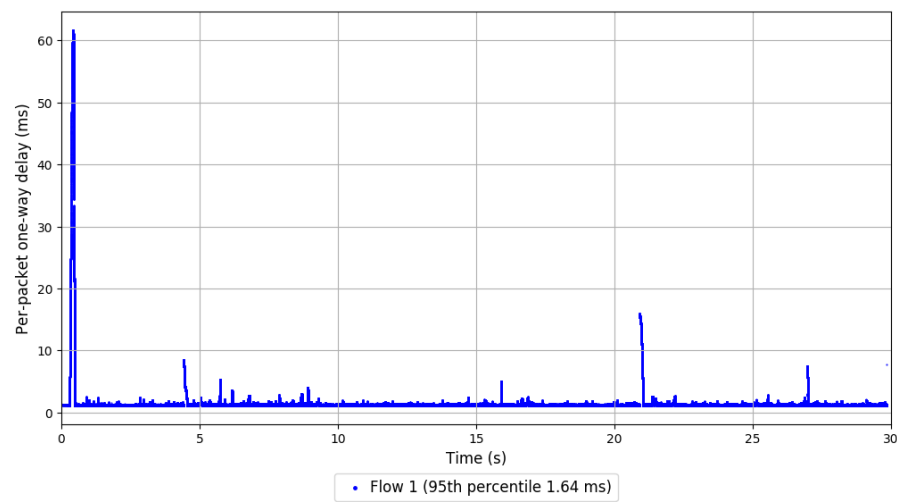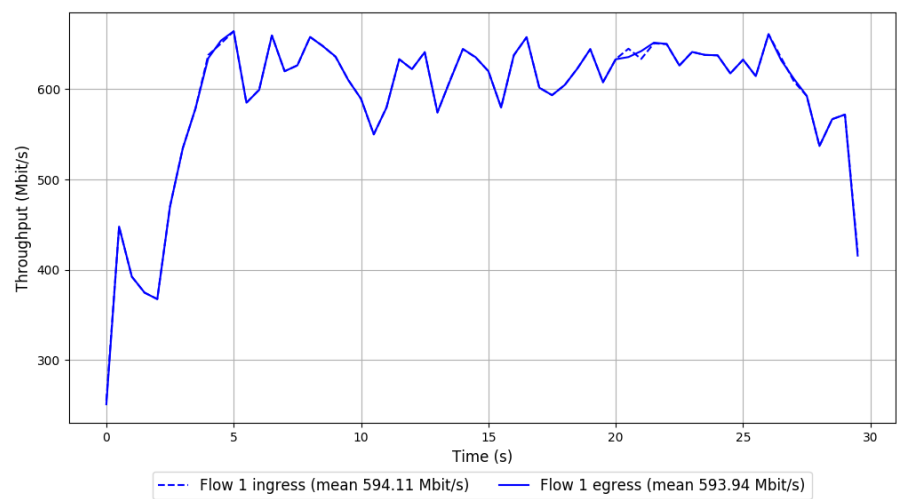
Run 3: Report of PCC — Data Link

Flow 1 ingress (mean 594.11 Mbit/s)   Flow 1 egress (mean 593.94 Mbit/s)

Flow 1 (95th percentile 1.64 ms)

```
Run 4: Statistics of PCC

Start at: 2017-08-30 23:53:17
End at: 2017-08-30 23:53:47
Local clock offset: -0.555 ms
Remote clock offset: 0.908 ms


# Below is generated by plot.py at 2017-08-31 07:02:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 612.91 Mbit/s
95th percentile per-packet one-way delay: 44.730 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 612.91 Mbit/s
95th percentile per-packet one-way delay: 44.730 ms
Loss rate: 1.83%
```
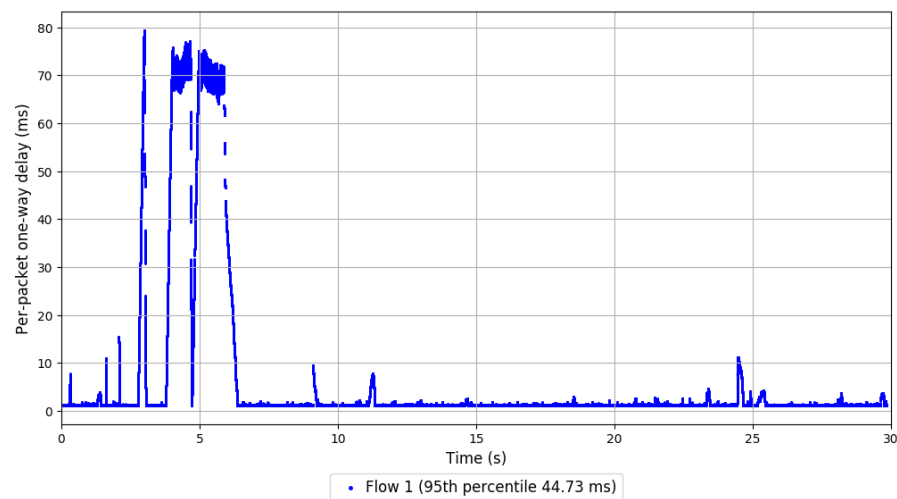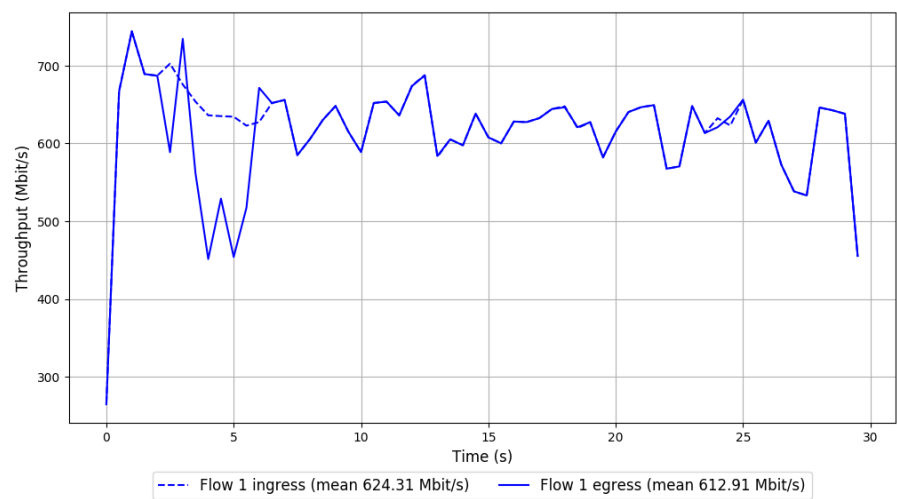
Run 4: Report of PCC — Data Link

Flow 1 ingress (mean 624.31 Mbit/s) Flow 1 egress (mean 612.91 Mbit/s)

Flow 1 (95th percentile 44.73 ms)

```
Run 5: Statistics of PCC

Start at: 2017-08-31 00:11:59
End at: 2017-08-31 00:12:29
Local clock offset: -0.659 ms
Remote clock offset: 0.903 ms


# Below is generated by plot.py at 2017-08-31 07:02:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 541.89 Mbit/s
95th percentile per-packet one-way delay: 5.909 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 541.89 Mbit/s
95th percentile per-packet one-way delay: 5.909 ms
Loss rate: 0.03%
```
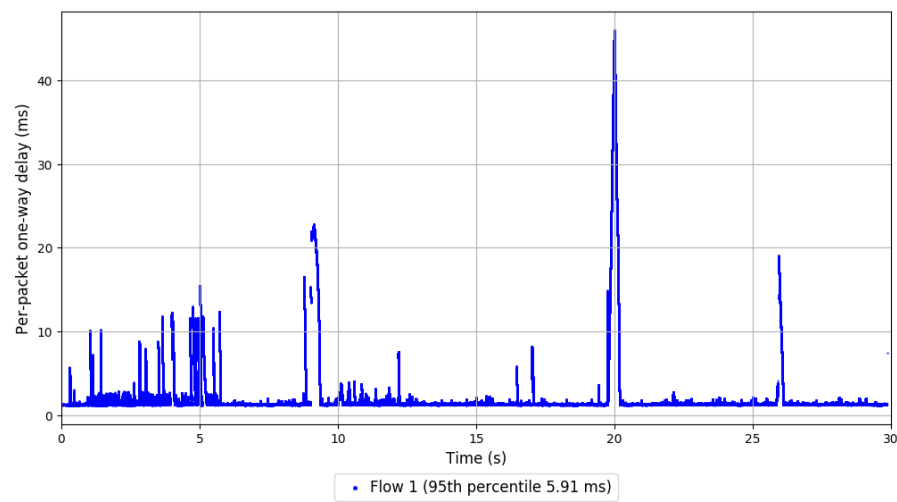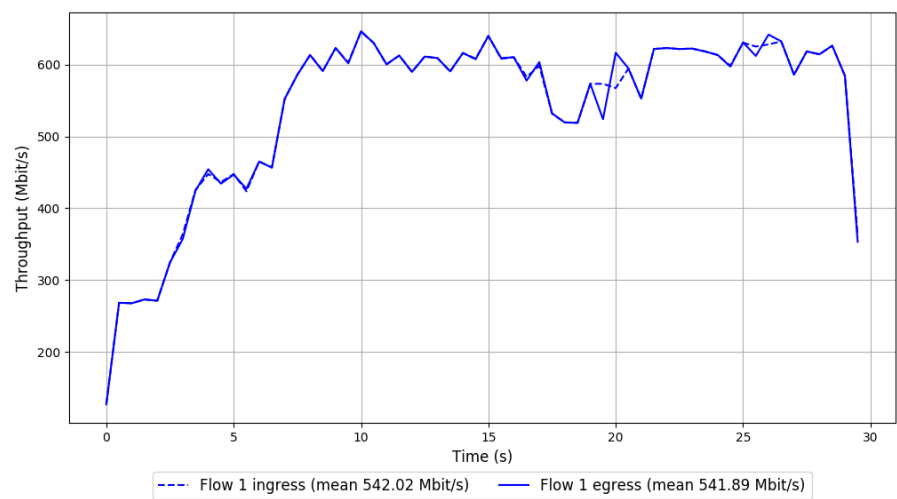
Run 5: Report of PCC — Data Link

Flow 1 ingress (mean 542.02 Mbit/s)   Flow 1 egress (mean 541.89 Mbit/s)

Flow 1 (95th percentile 5.91 ms)

```
Run 6: Statistics of PCC

Start at: 2017-08-31 00:30:38
End at: 2017-08-31 00:31:08
Local clock offset: -0.744 ms
Remote clock offset: 0.952 ms


# Below is generated by plot.py at 2017-08-31 07:03:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 591.87 Mbit/s
95th percentile per-packet one-way delay: 14.012 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 591.87 Mbit/s
95th percentile per-packet one-way delay: 14.012 ms
Loss rate: 0.70%
```
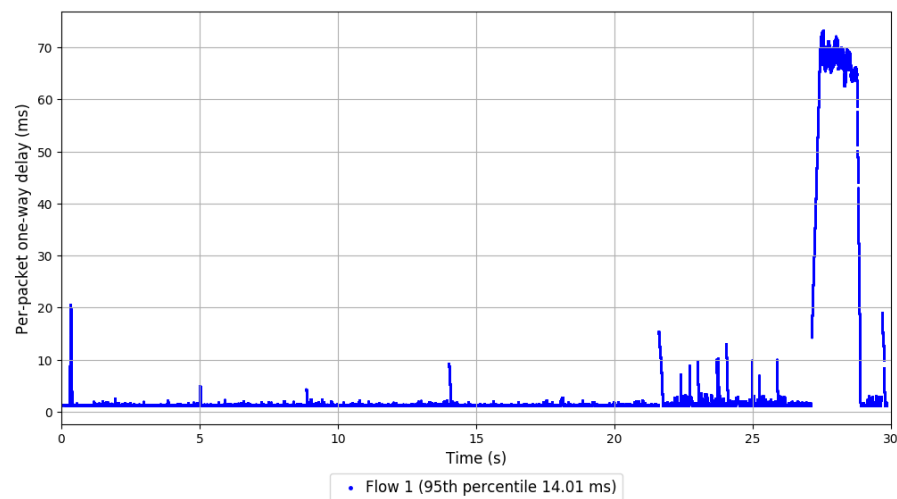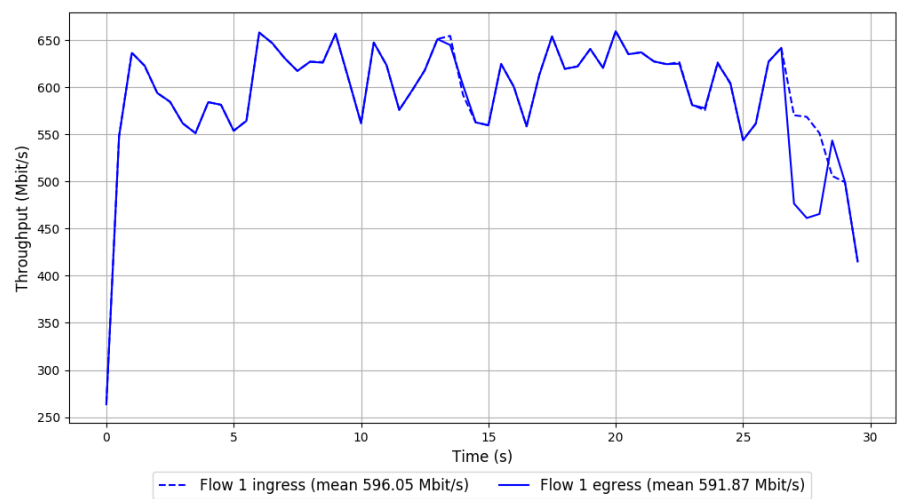
Run 6: Report of PCC — Data Link

```
Run 7: Statistics of PCC

Start at: 2017-08-31 00:49:17
End at: 2017-08-31 00:49:47
Local clock offset: -0.671 ms
Remote clock offset: 1.03 ms


# Below is generated by plot.py at 2017-08-31 07:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 577.86 Mbit/s
95th percentile per-packet one-way delay: 7.360 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 577.86 Mbit/s
95th percentile per-packet one-way delay: 7.360 ms
Loss rate: 0.02%
```
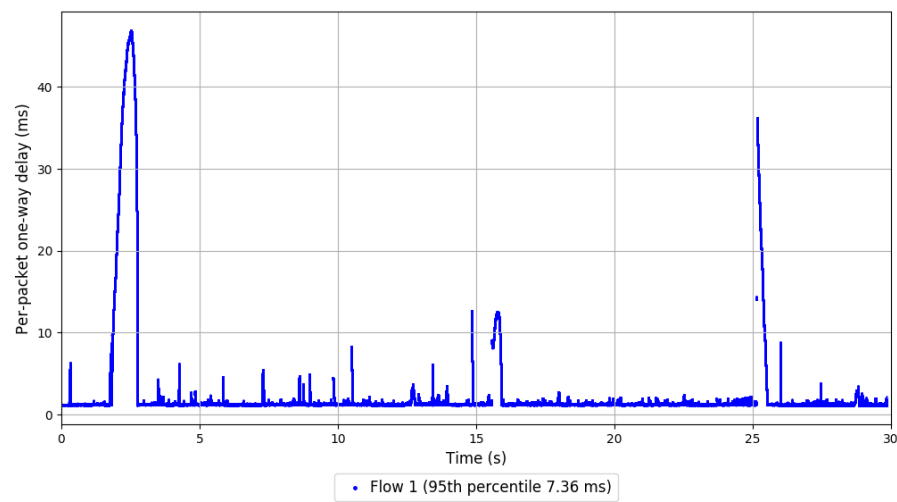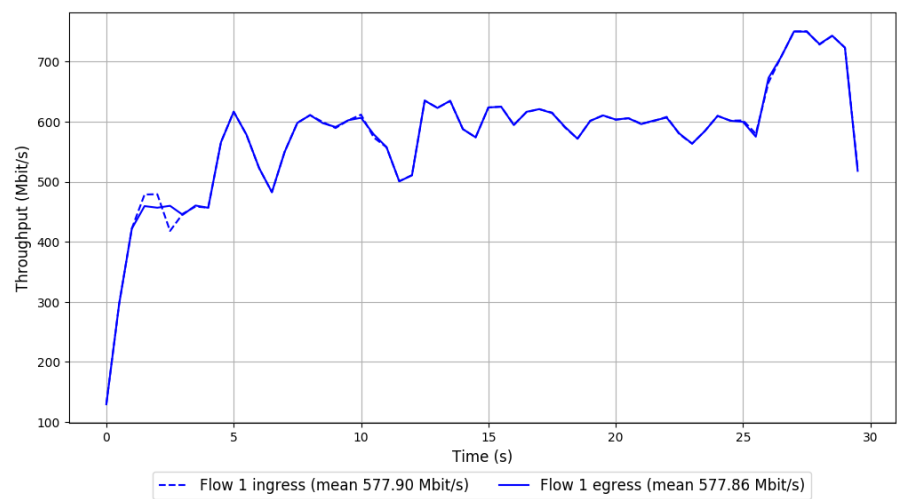
Run 7: Report of PCC — Data Link

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```
Run 8: Statistics of PCC

Start at: 2017-08-31 01:07:59
End at: 2017-08-31 01:08:29
Local clock offset: -0.939 ms
Remote clock offset: 0.779 ms


# Below is generated by plot.py at 2017-08-31 07:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 589.94 Mbit/s
95th percentile per-packet one-way delay: 27.086 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 589.94 Mbit/s
95th percentile per-packet one-way delay: 27.086 ms
Loss rate: 0.20%
```
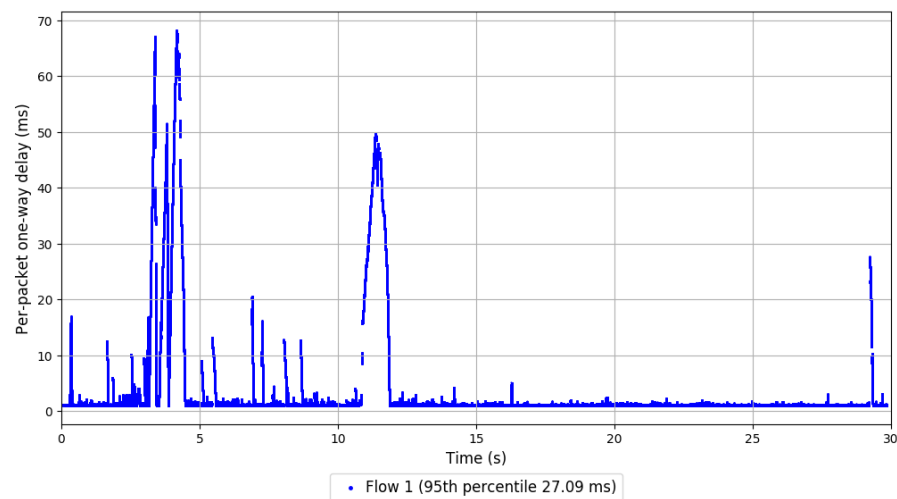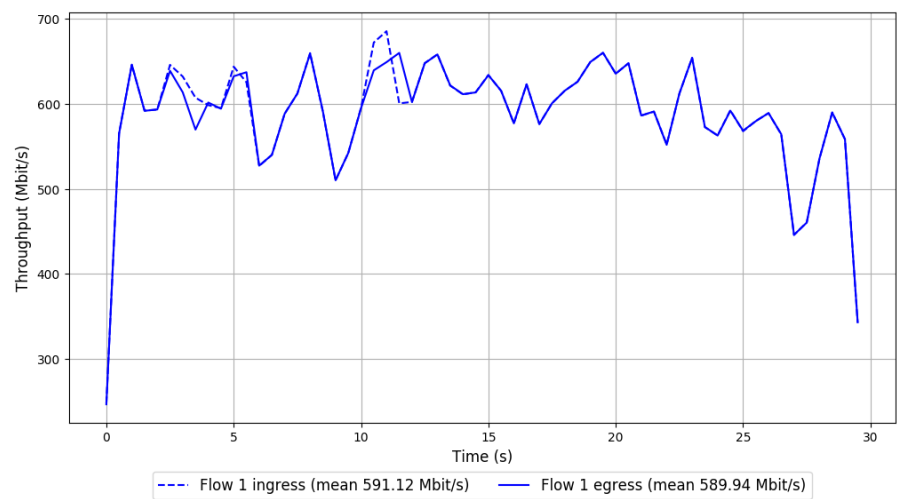
Run 8: Report of PCC — Data Link

Flow 1 ingress (mean 591.12 Mbit/s) ---- Flow 1 egress (mean 589.94 Mbit/s) ——

• Flow 1 (95th percentile 27.09 ms)

```
Run 9: Statistics of PCC

Start at: 2017-08-31 01:26:48
End at: 2017-08-31 01:27:18
Local clock offset: -0.523 ms
Remote clock offset: 0.724 ms


# Below is generated by plot.py at 2017-08-31 07:05:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 635.98 Mbit/s
95th percentile per-packet one-way delay: 46.473 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 635.98 Mbit/s
95th percentile per-packet one-way delay: 46.473 ms
Loss rate: 1.13%
```
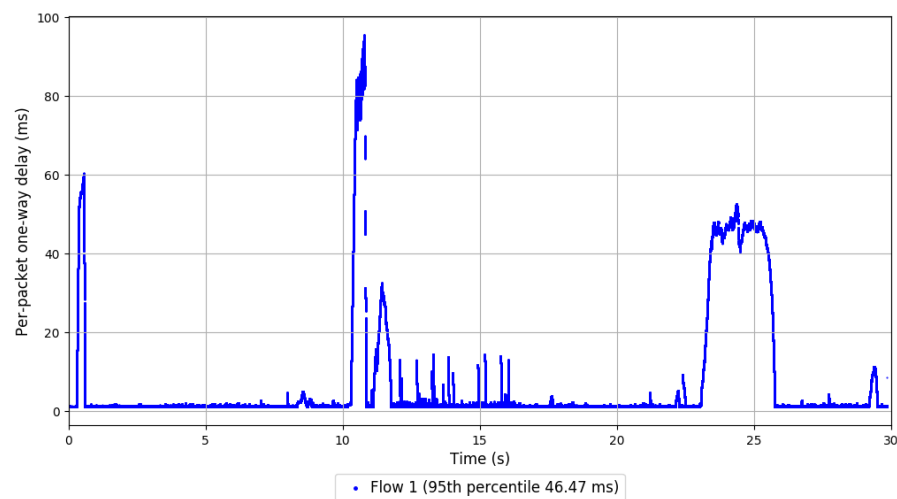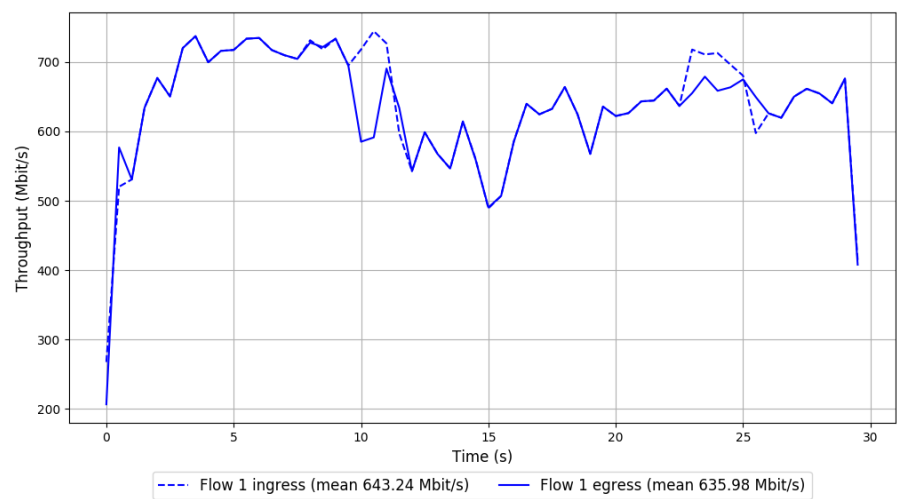
Run 9: Report of PCC — Data Link

Flow 1 ingress (mean 643.24 Mbit/s) —— Flow 1 egress (mean 635.98 Mbit/s)

• Flow 1 (95th percentile 46.47 ms)

```
Run 10: Statistics of PCC

Start at: 2017-08-31 01:45:41
End at: 2017-08-31 01:46:12
Local clock offset: -0.758 ms
Remote clock offset: 0.343 ms


# Below is generated by plot.py at 2017-08-31 07:06:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 555.01 Mbit/s
95th percentile per-packet one-way delay: 4.292 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 555.01 Mbit/s
95th percentile per-packet one-way delay: 4.292 ms
Loss rate: 0.03%
```
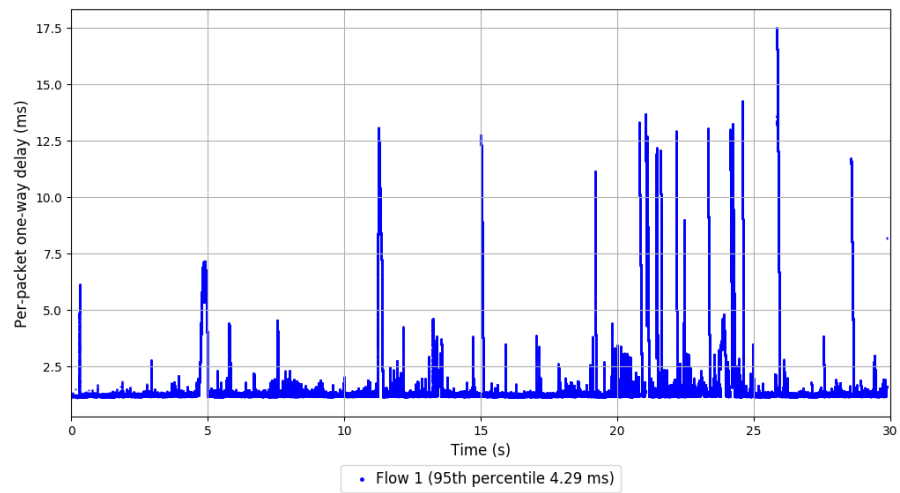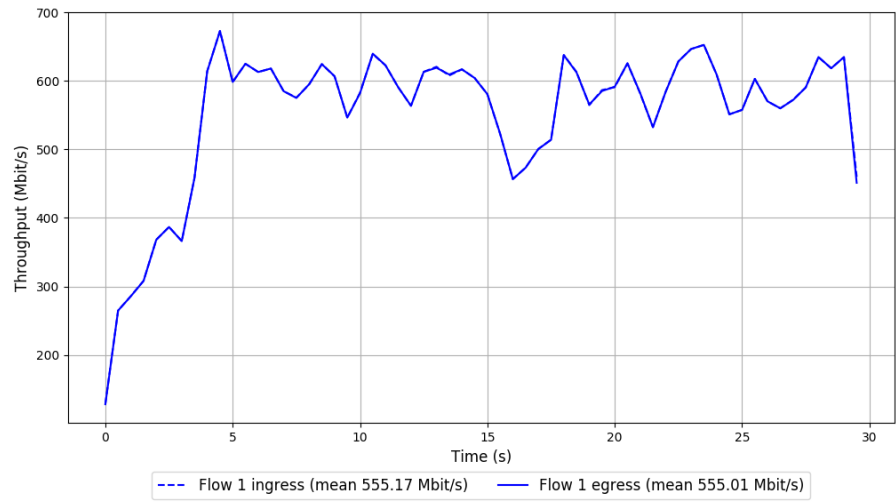
Run 10: Report of PCC — Data Link

Flow 1 ingress (mean 555.17 Mbit/s) — — — Flow 1 egress (mean 555.01 Mbit/s)

Flow 1 (95th percentile 4.29 ms)

```
Run 1: Statistics of QUIC Cubic

Start at: 2017-08-30 22:52:48
End at: 2017-08-30 22:53:18
Local clock offset: -0.668 ms
Remote clock offset: 0.154 ms


# Below is generated by plot.py at 2017-08-31 07:06:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.35 Mbit/s
95th percentile per-packet one-way delay: 1.152 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.35 Mbit/s
95th percentile per-packet one-way delay: 1.152 ms
Loss rate: 0.00%
```
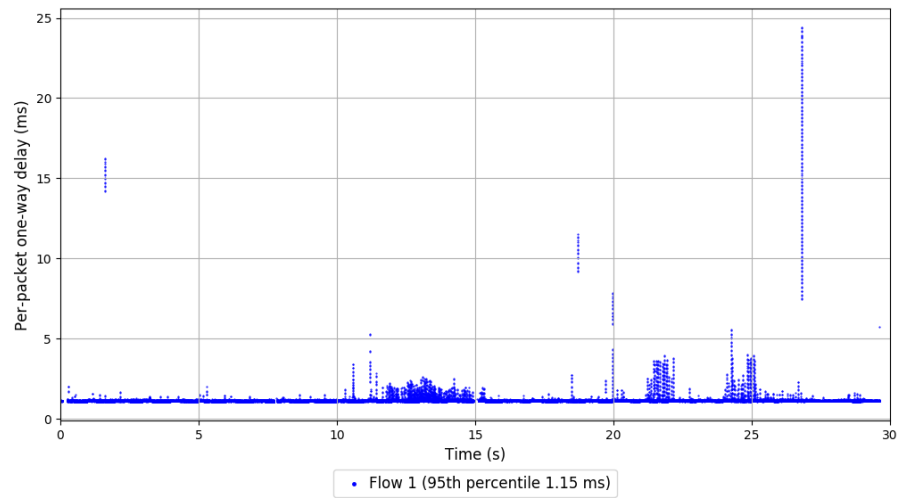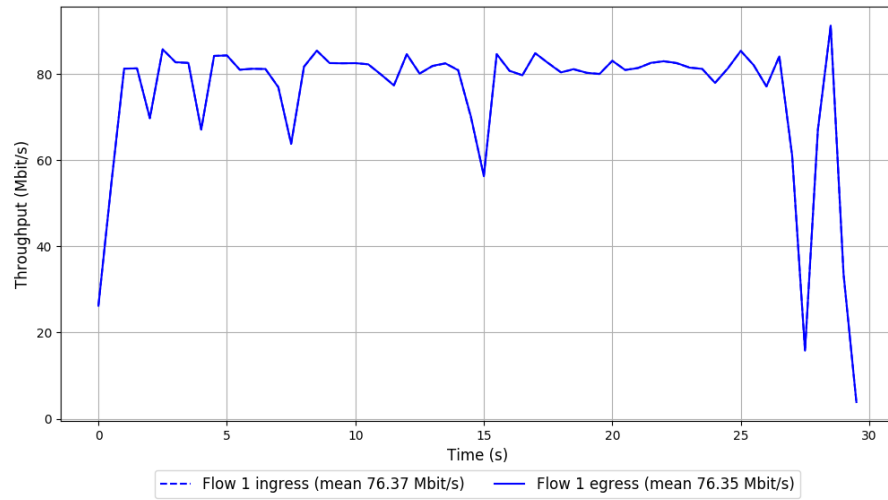
Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2017-08-30 23:11:45
End at: 2017-08-30 23:12:15
Local clock offset: -0.797 ms
Remote clock offset: 0.421 ms


# Below is generated by plot.py at 2017-08-31 07:06:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.48 Mbit/s
95th percentile per-packet one-way delay: 1.163 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 76.48 Mbit/s
95th percentile per-packet one-way delay: 1.163 ms
Loss rate: 0.01%
```
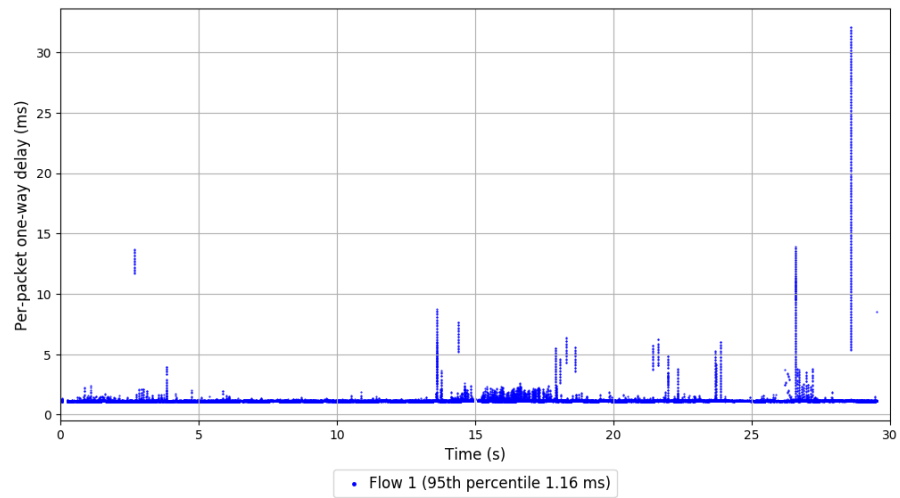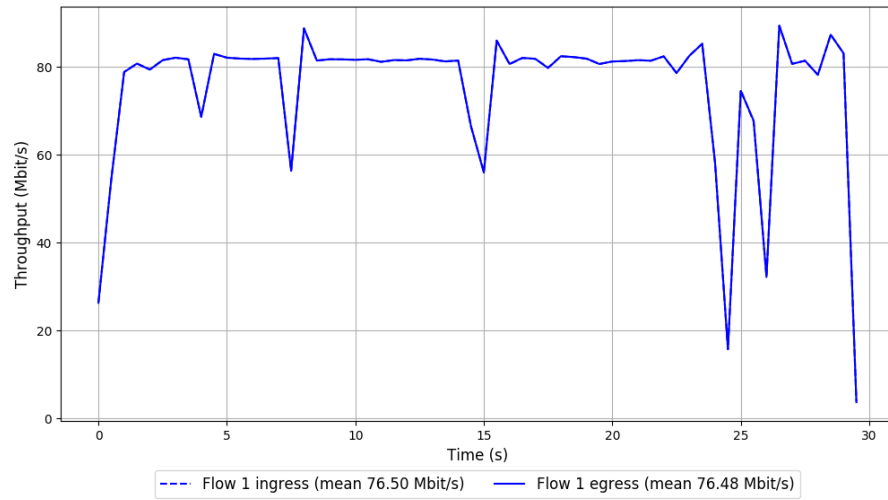
Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 76.50 Mbit/s)   Flow 1 egress (mean 76.48 Mbit/s)

Flow 1 (95th percentile 1.16 ms)

```
Run 3: Statistics of QUIC Cubic

Start at: 2017-08-30 23:30:36
End at: 2017-08-30 23:31:06
Local clock offset: -0.452 ms
Remote clock offset: 0.85 ms


# Below is generated by plot.py at 2017-08-31 07:06:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.22 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 74.22 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.01%
```
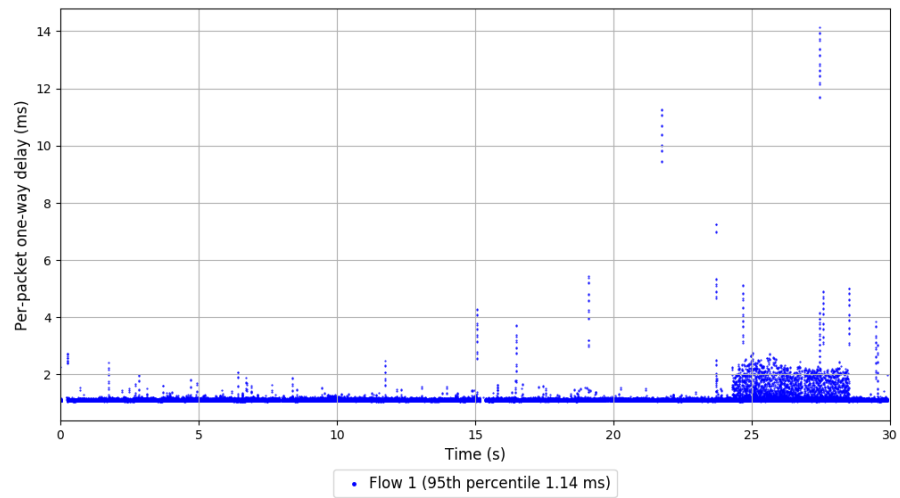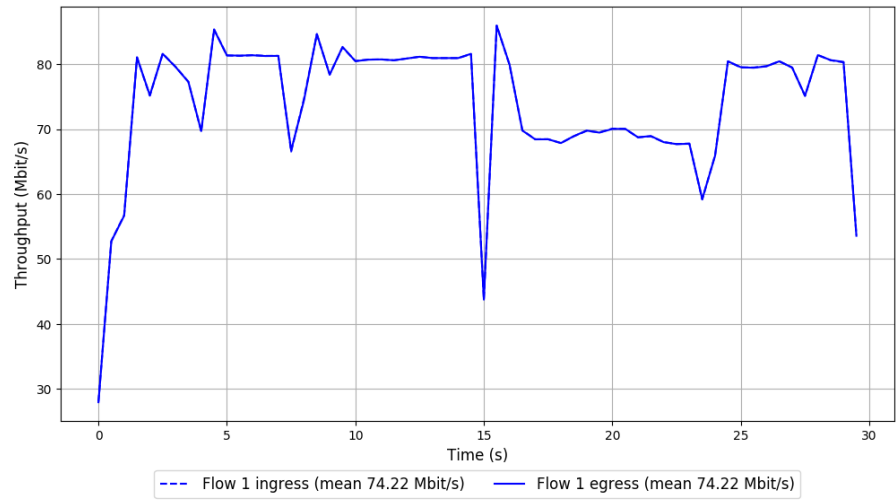
Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 74.22 Mbit/s)   Flow 1 egress (mean 74.22 Mbit/s)

Flow 1 (95th percentile 1.14 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2017-08-30 23:49:25
End at: 2017-08-30 23:49:55
Local clock offset: -0.436 ms
Remote clock offset: 0.98 ms


# Below is generated by plot.py at 2017-08-31 07:06:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.38 Mbit/s
95th percentile per-packet one-way delay: 1.246 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 68.38 Mbit/s
95th percentile per-packet one-way delay: 1.246 ms
Loss rate: 0.01%
```
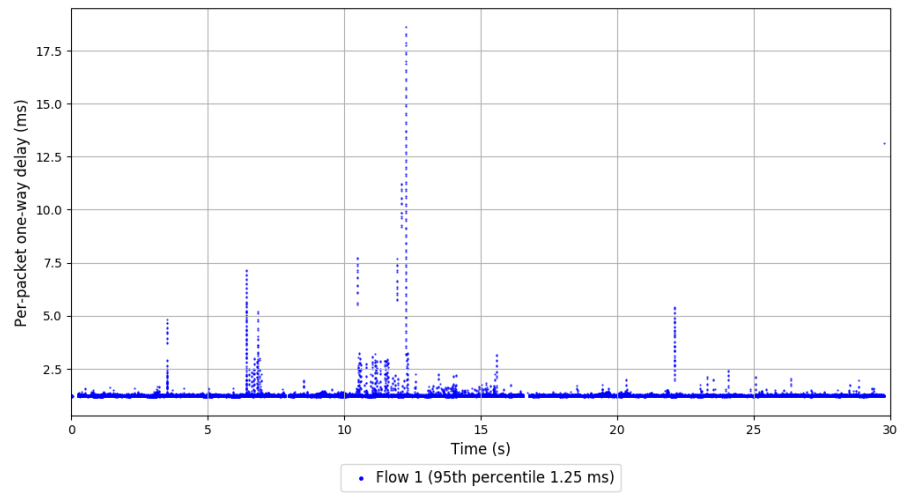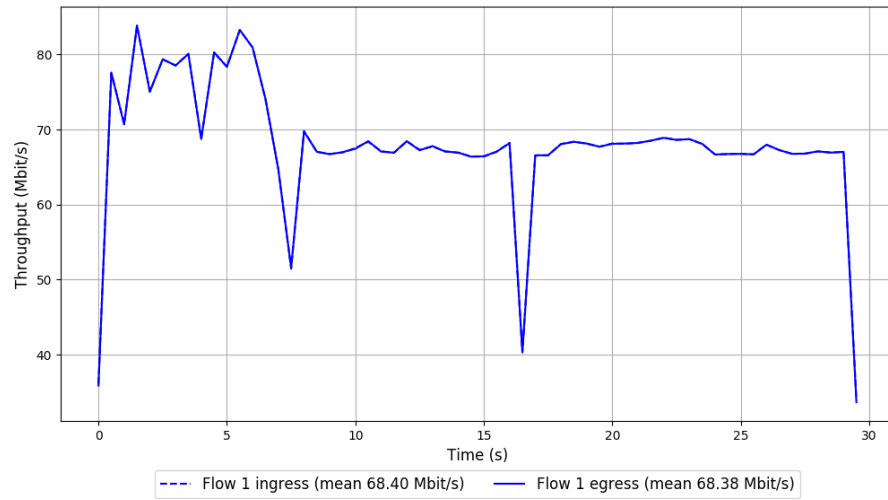
Run 4: Report of QUIC Cubic — Data Link

```
Run 5: Statistics of QUIC Cubic

Start at: 2017-08-31 00:08:08
End at: 2017-08-31 00:08:38
Local clock offset: -0.636 ms
Remote clock offset: 0.999 ms


# Below is generated by plot.py at 2017-08-31 07:06:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.55 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.55 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.00%
```
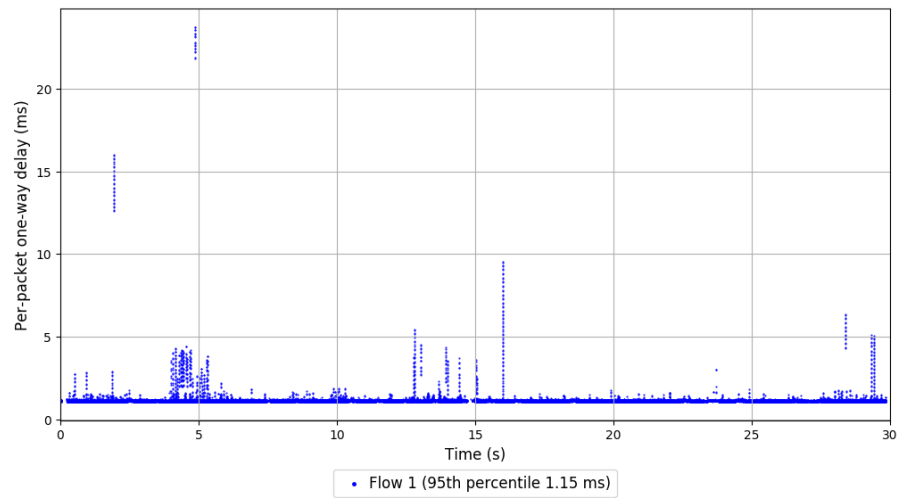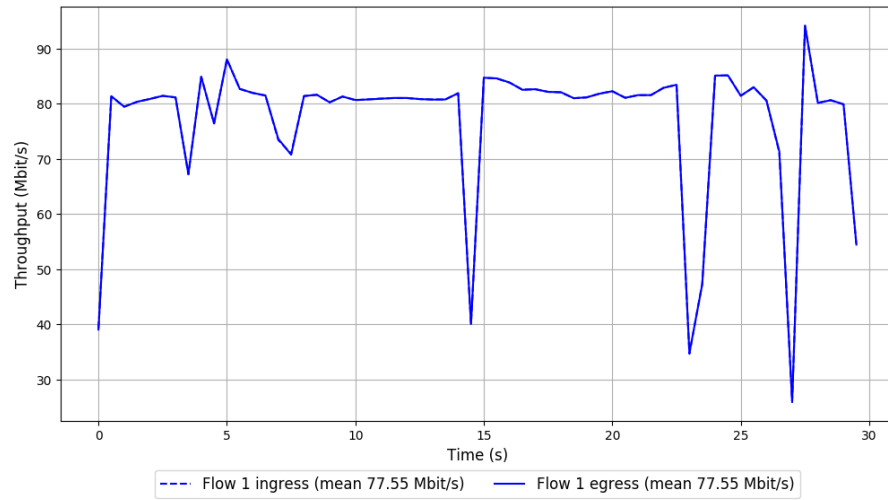
Run 5: Report of QUIC Cubic — Data Link

```
Run 6: Statistics of QUIC Cubic

Start at: 2017-08-31 00:26:52
End at: 2017-08-31 00:27:22
Local clock offset: -0.684 ms
Remote clock offset: 1.036 ms


# Below is generated by plot.py at 2017-08-31 07:06:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.79 Mbit/s
95th percentile per-packet one-way delay: 1.244 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 76.79 Mbit/s
95th percentile per-packet one-way delay: 1.244 ms
Loss rate: 0.01%
```
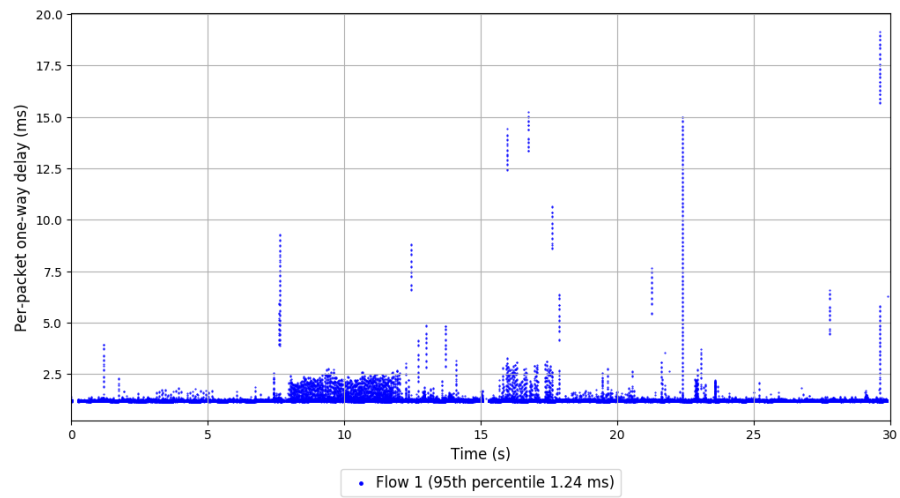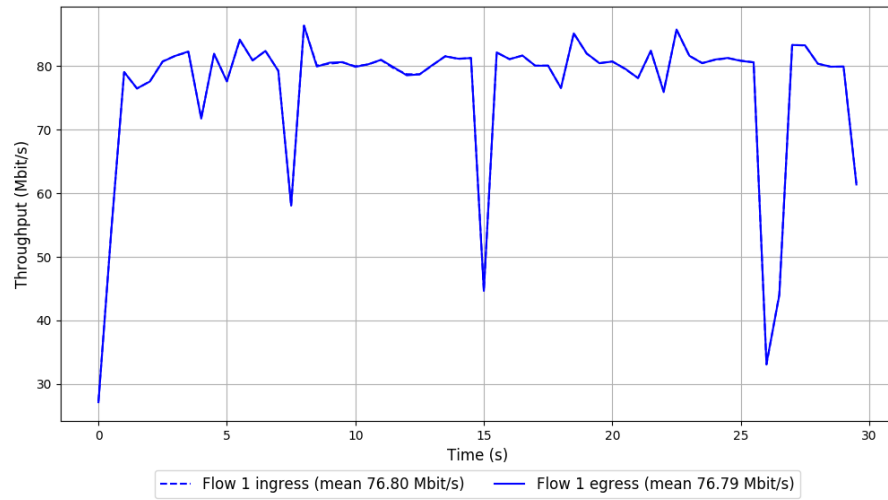
Run 6: Report of QUIC Cubic — Data Link

```
Run 7: Statistics of QUIC Cubic

Start at: 2017-08-31 00:45:29
End at: 2017-08-31 00:45:59
Local clock offset: -0.75 ms
Remote clock offset: 1.129 ms


# Below is generated by plot.py at 2017-08-31 07:06:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.26 Mbit/s
95th percentile per-packet one-way delay: 1.108 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 76.26 Mbit/s
95th percentile per-packet one-way delay: 1.108 ms
Loss rate: 0.01%
```
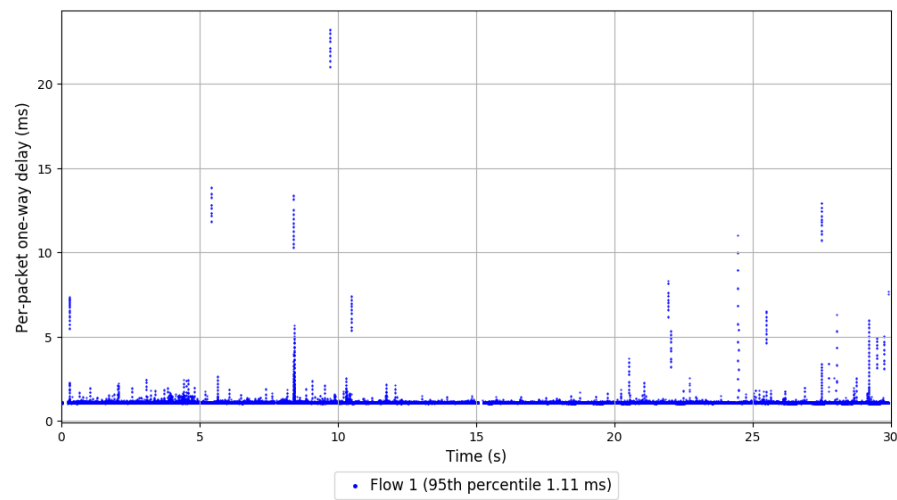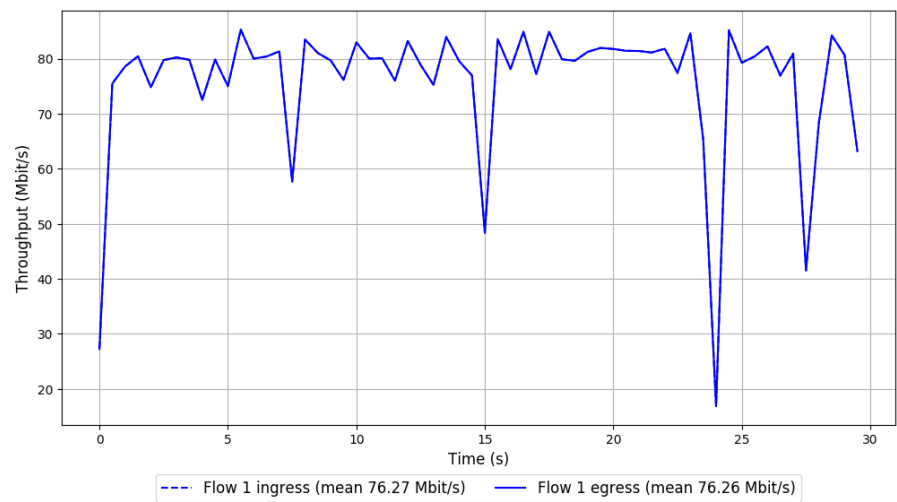
Run 7: Report of QUIC Cubic — Data Link

```
Run 8: Statistics of QUIC Cubic

Start at: 2017-08-31 01:04:09
End at: 2017-08-31 01:04:39
Local clock offset: -0.849 ms
Remote clock offset: 0.76 ms


# Below is generated by plot.py at 2017-08-31 07:06:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.20 Mbit/s
95th percentile per-packet one-way delay: 1.285 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 69.20 Mbit/s
95th percentile per-packet one-way delay: 1.285 ms
Loss rate: 0.01%
```
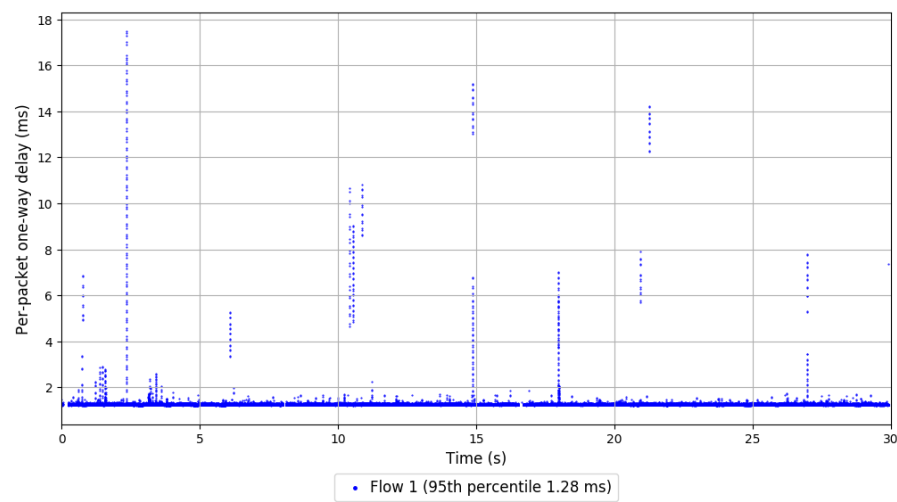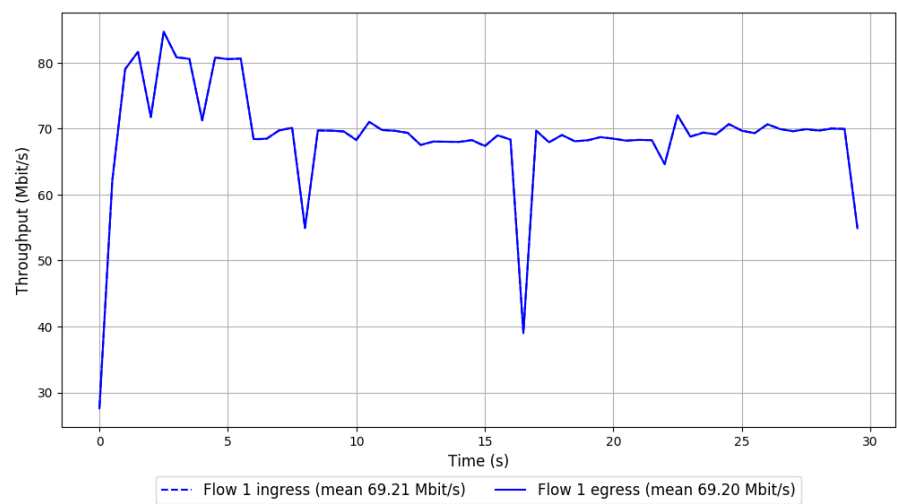
Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 69.21 Mbit/s) ---- Flow 1 egress (mean 69.20 Mbit/s) ——

Flow 1 (95th percentile 1.28 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2017-08-31 01:22:56
End at: 2017-08-31 01:23:26
Local clock offset: -0.594 ms
Remote clock offset: 0.755 ms


# Below is generated by plot.py at 2017-08-31 07:06:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.43 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 71.43 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.01%
```
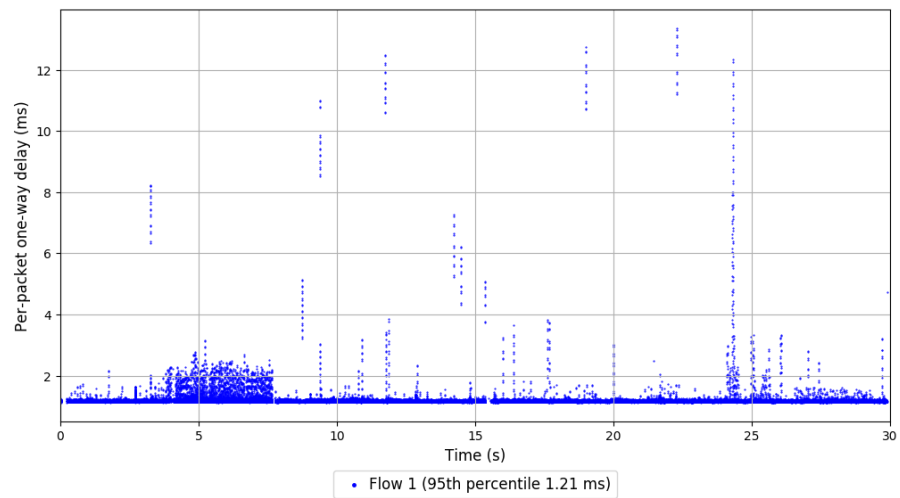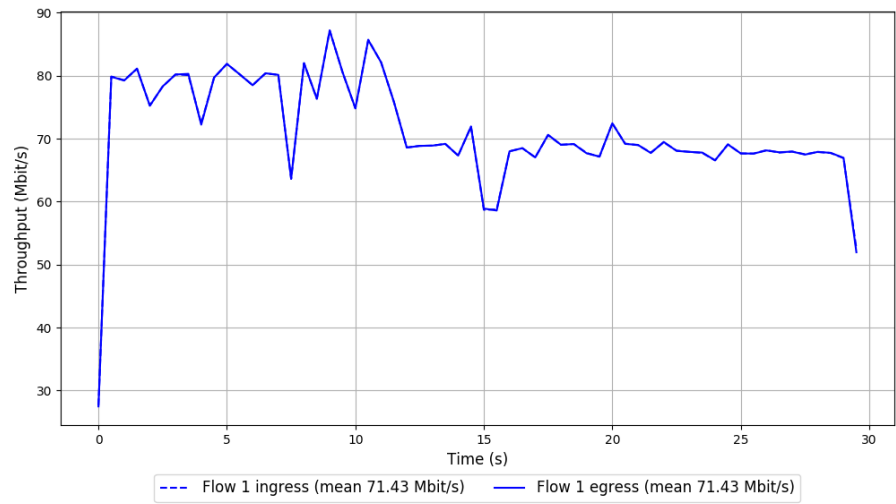
Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 71.43 Mbit/s) --- Flow 1 egress (mean 71.43 Mbit/s)

Flow 1 (95th percentile 1.21 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2017-08-31 01:41:53
End at: 2017-08-31 01:42:23
Local clock offset: -0.692 ms
Remote clock offset: 0.356 ms


# Below is generated by plot.py at 2017-08-31 07:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.29 Mbit/s
95th percentile per-packet one-way delay: 1.317 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 72.29 Mbit/s
95th percentile per-packet one-way delay: 1.317 ms
Loss rate: 0.01%
```
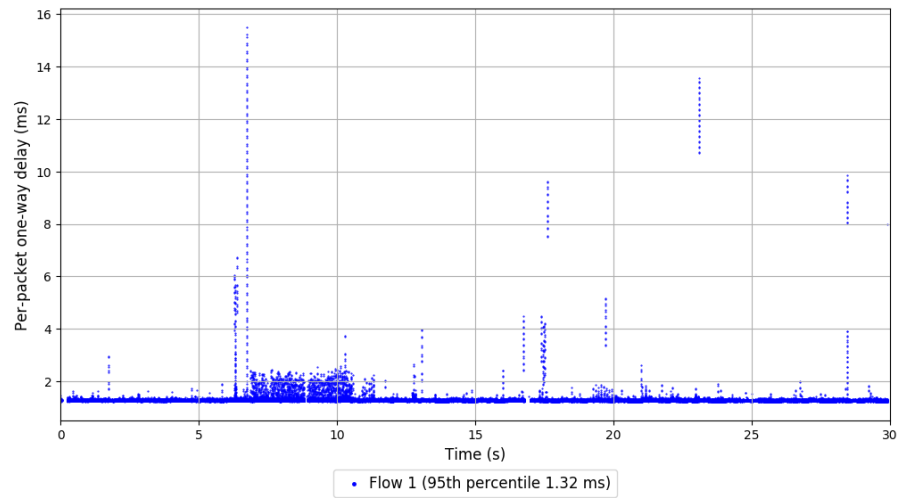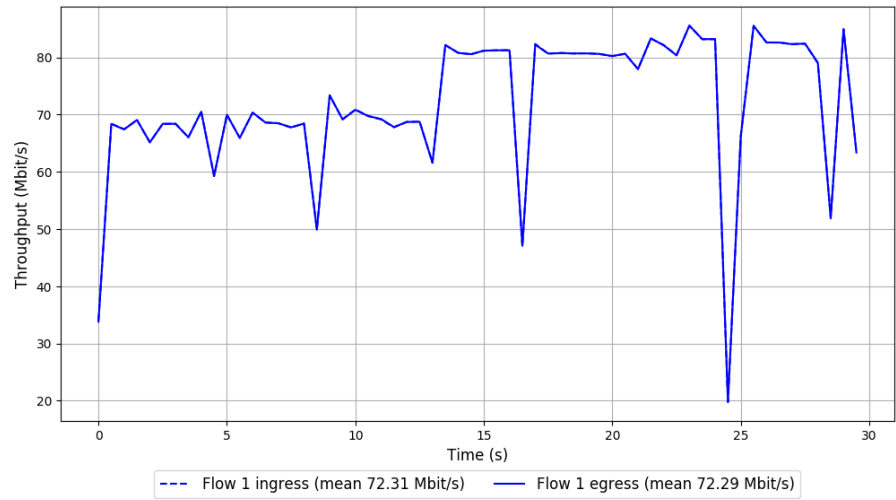
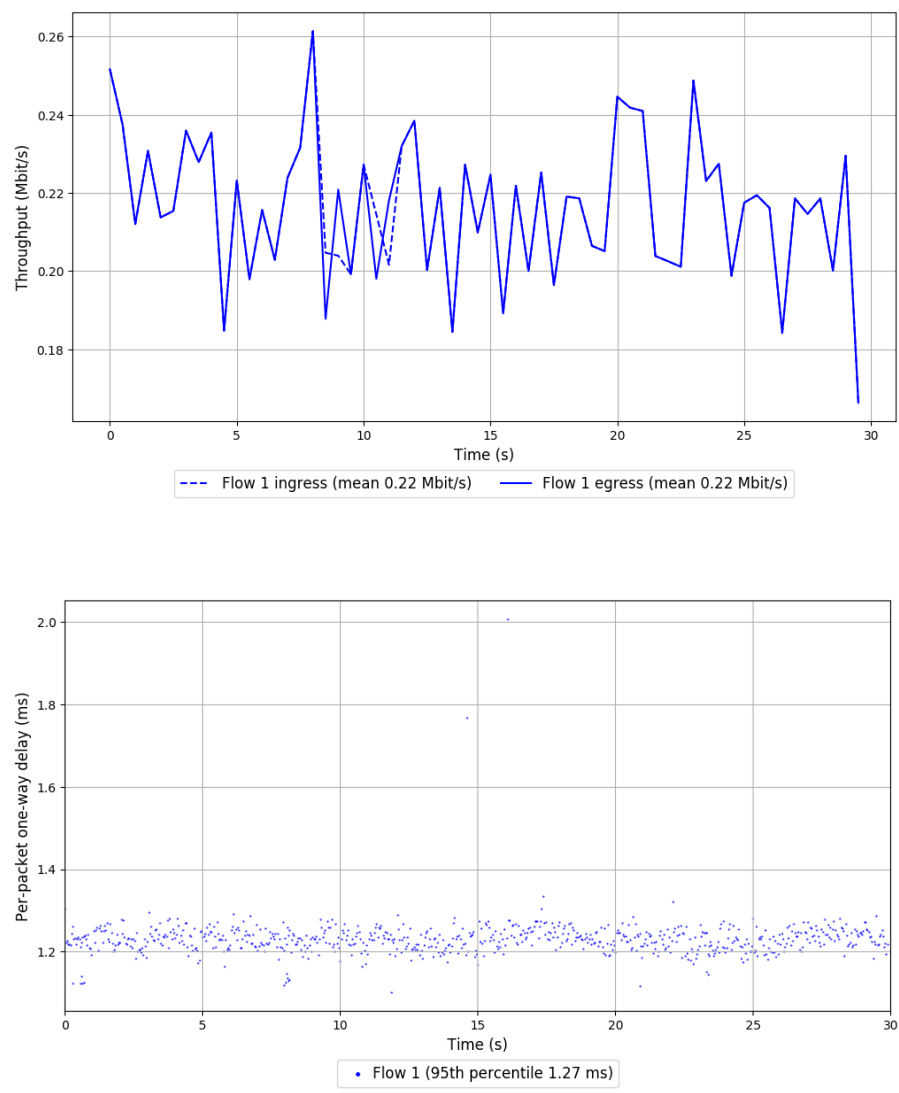# Run 10: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2017-08-30 22:51:44
End at: 2017-08-30 22:52:14
Local clock offset: -0.661 ms
Remote clock offset: 0.117 ms


# Below is generated by plot.py at 2017-08-31 07:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.272 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.272 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2017-08-30 23:10:42
End at: 2017-08-30 23:11:12
Local clock offset: -0.686 ms
Remote clock offset: 0.409 ms


# Below is generated by plot.py at 2017-08-31 07:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.348 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.348 ms
Loss rate: 0.00%
```
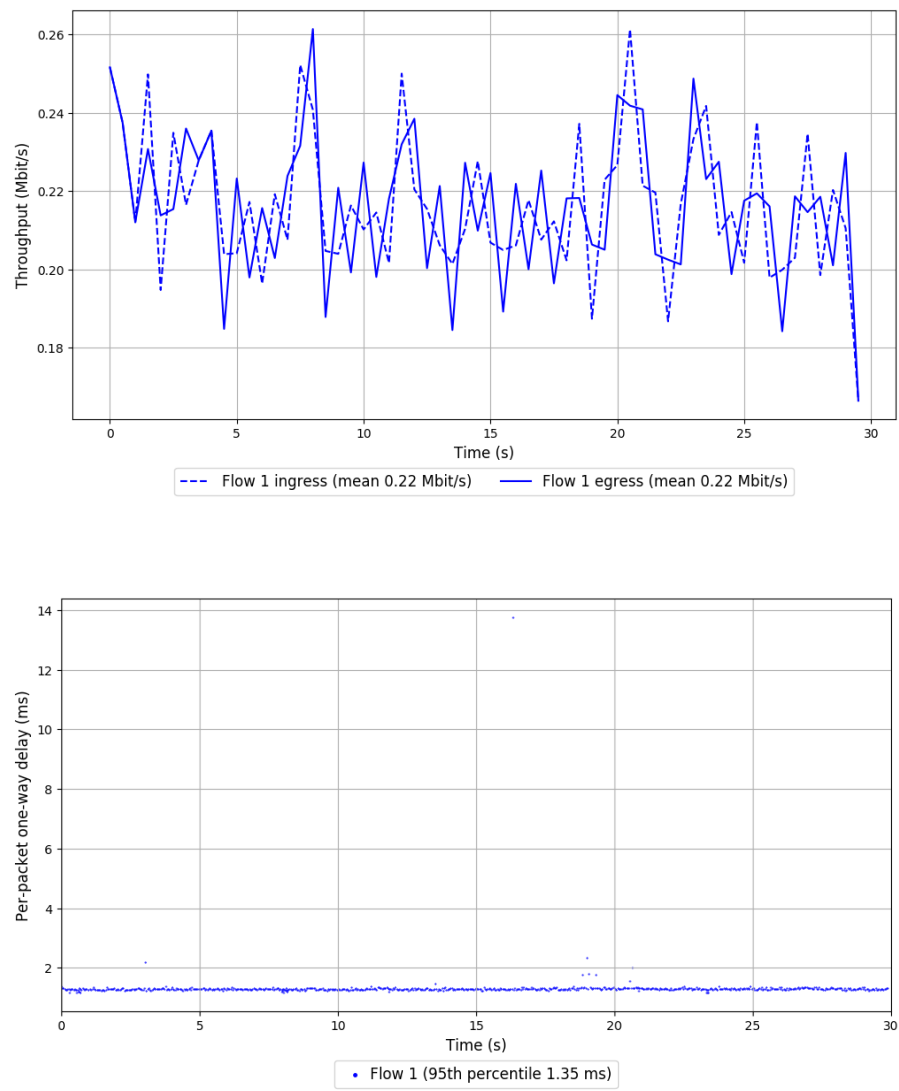
Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2017-08-30 23:29:32
End at: 2017-08-30 23:30:02
Local clock offset: -0.417 ms
Remote clock offset: 0.787 ms


# Below is generated by plot.py at 2017-08-31 07:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.321 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.321 ms
Loss rate: 0.00%
```
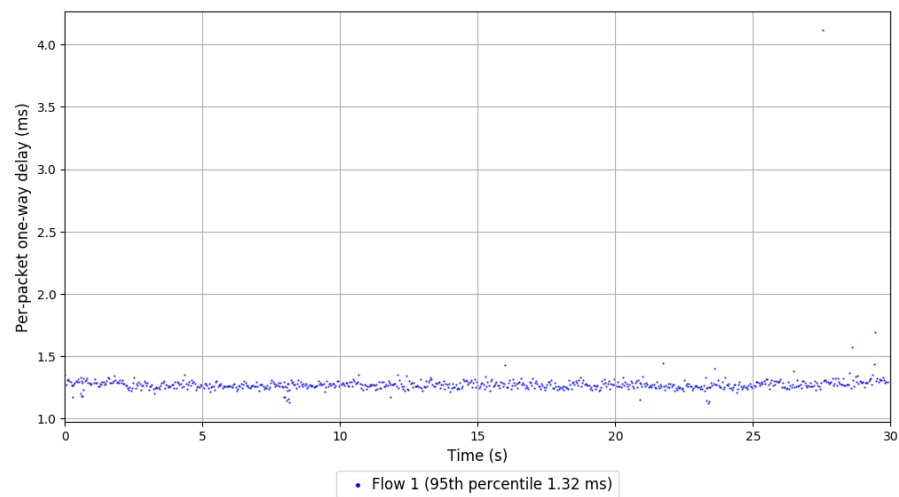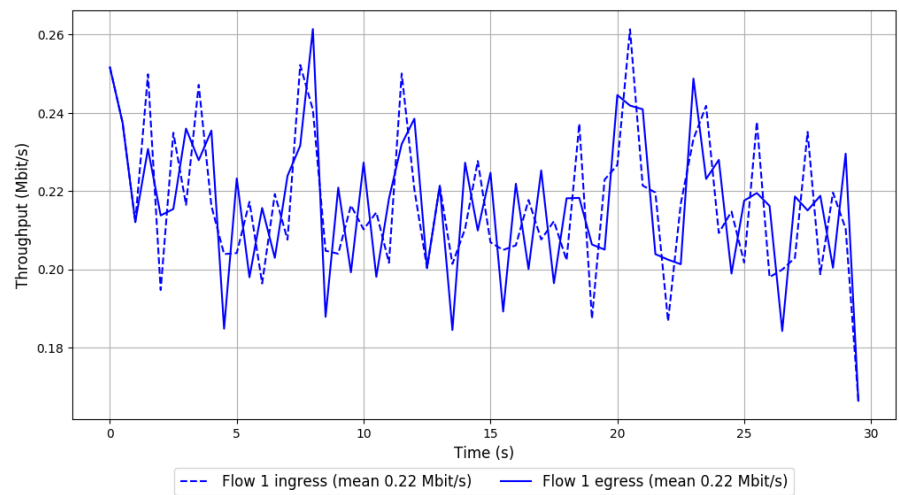
Run 3: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 1.32 ms)

```
Run 4: Statistics of SCReAM

Start at: 2017-08-30 23:48:21
End at: 2017-08-30 23:48:51
Local clock offset: -0.52 ms
Remote clock offset: 0.955 ms


# Below is generated by plot.py at 2017-08-31 07:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.272 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.272 ms
Loss rate: 0.00%
```
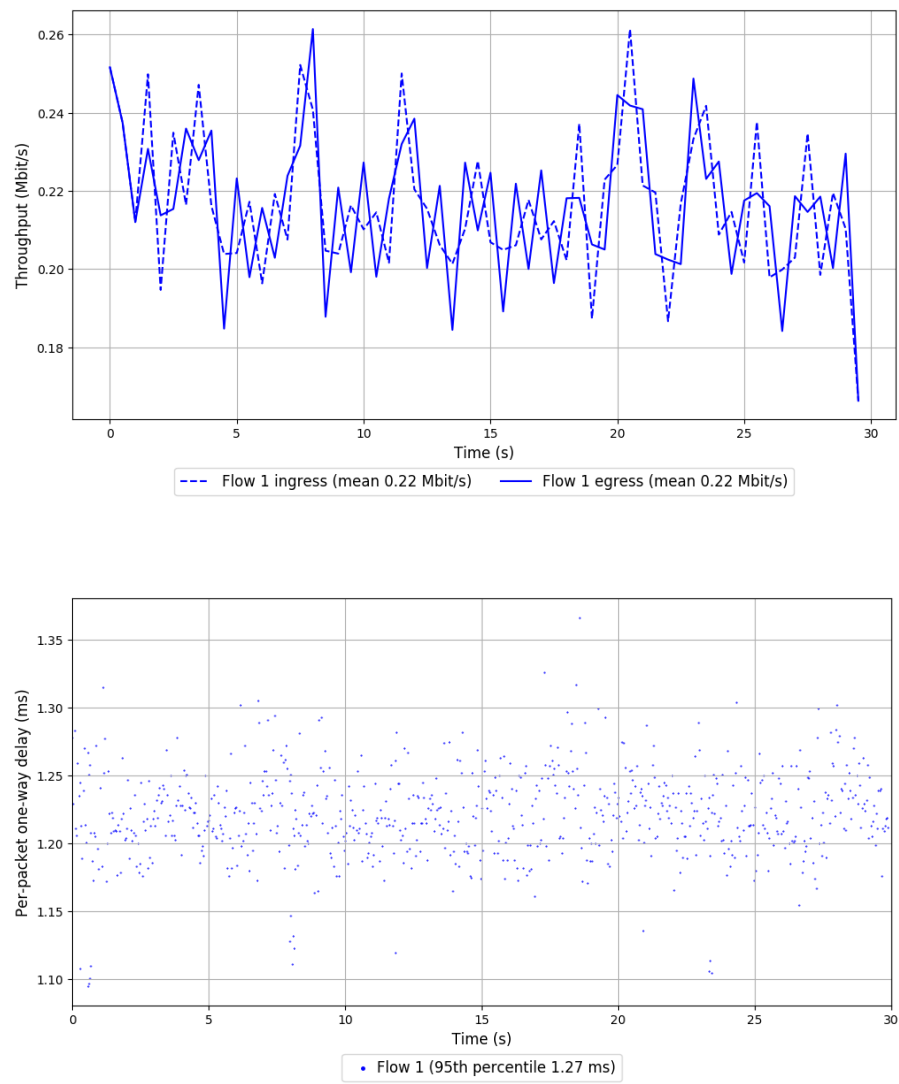
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2017-08-31 00:07:04
End at: 2017-08-31 00:07:34
Local clock offset: -0.495 ms
Remote clock offset: 1.047 ms

# Below is generated by plot.py at 2017-08-31 07:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.354 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.354 ms
Loss rate: 0.00%
```
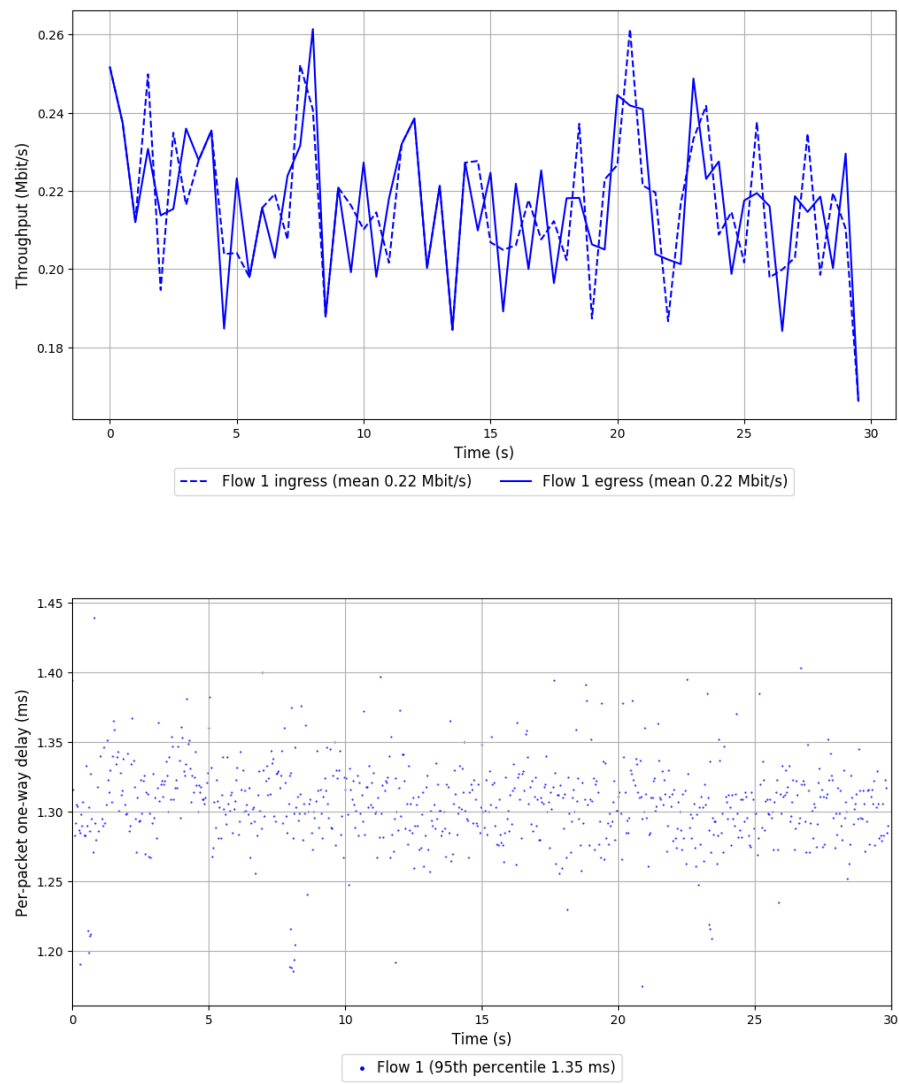
Run 5: Report of SCReAM — Data Link

```
Run 6: Statistics of SCReAM

Start at: 2017-08-31 00:25:48
End at: 2017-08-31 00:26:18
Local clock offset: -0.669 ms
Remote clock offset: 0.972 ms


# Below is generated by plot.py at 2017-08-31 07:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.412 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.412 ms
Loss rate: 0.00%
```
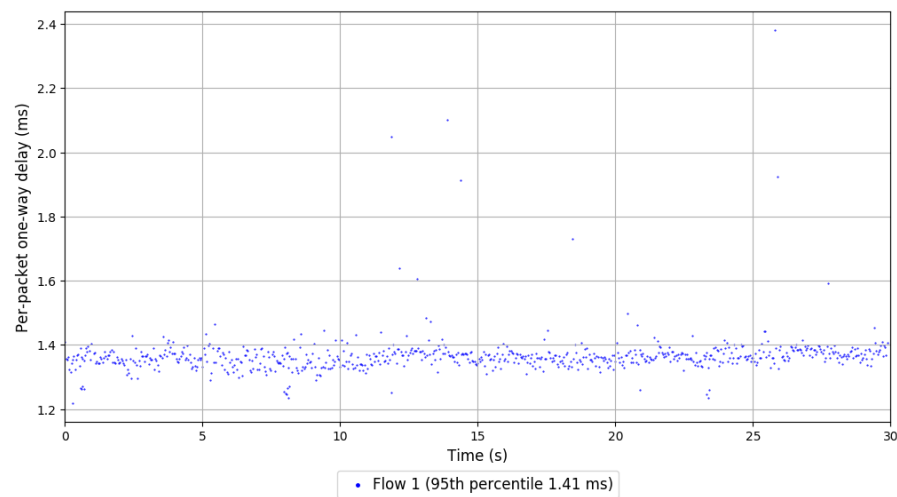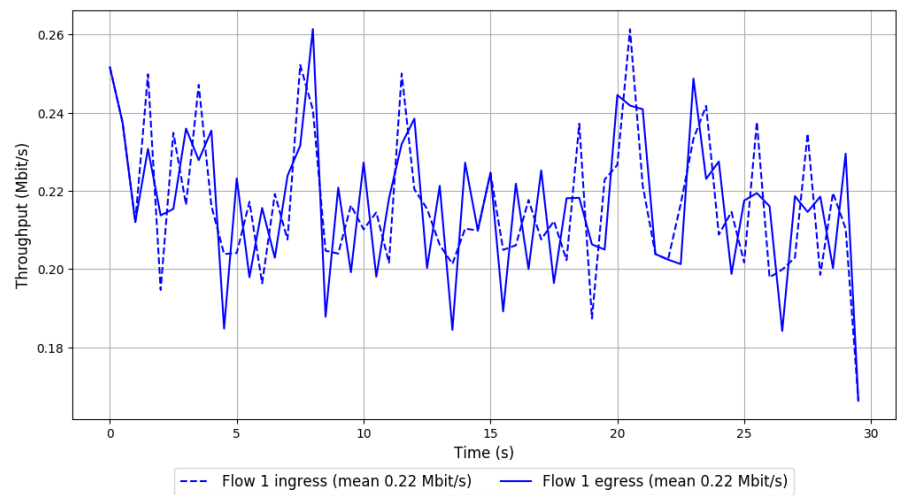
Run 6: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 1.41 ms)

```
Run 7: Statistics of SCReAM

Start at: 2017-08-31 00:44:25
End at: 2017-08-31 00:44:55
Local clock offset: -0.729 ms
Remote clock offset: 0.998 ms


# Below is generated by plot.py at 2017-08-31 07:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.394 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.394 ms
Loss rate: 0.00%
```
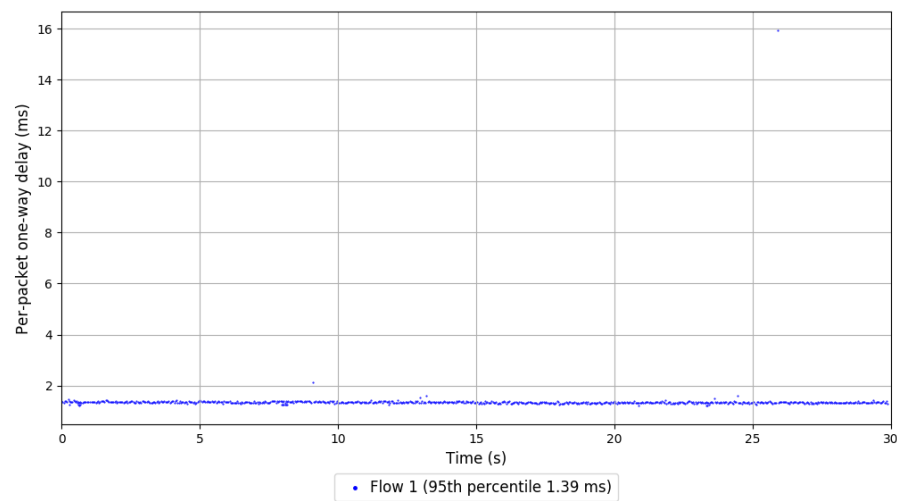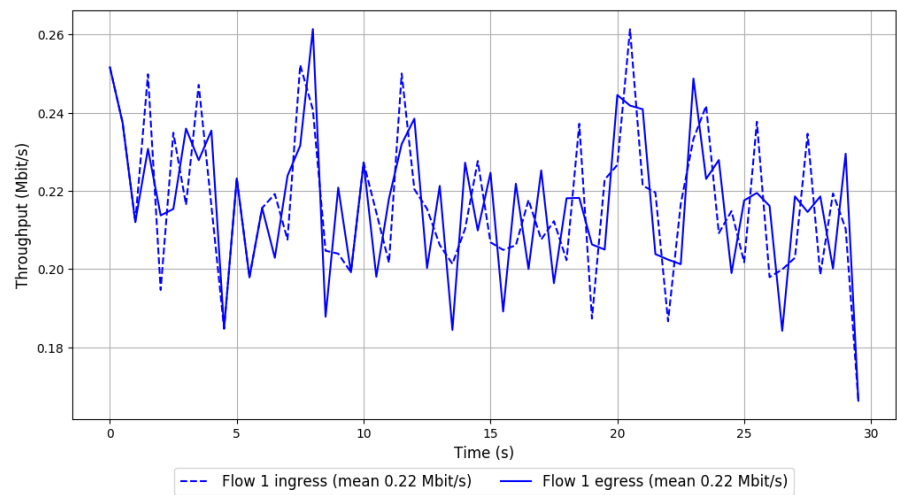
Run 7: Report of SCReAM — Data Link

197

```
Run 8: Statistics of SCReAM

Start at: 2017-08-31 01:03:05
End at: 2017-08-31 01:03:35
Local clock offset: -0.84 ms
Remote clock offset: 0.83 ms


# Below is generated by plot.py at 2017-08-31 07:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.342 ms
Loss rate: 0.00%
```
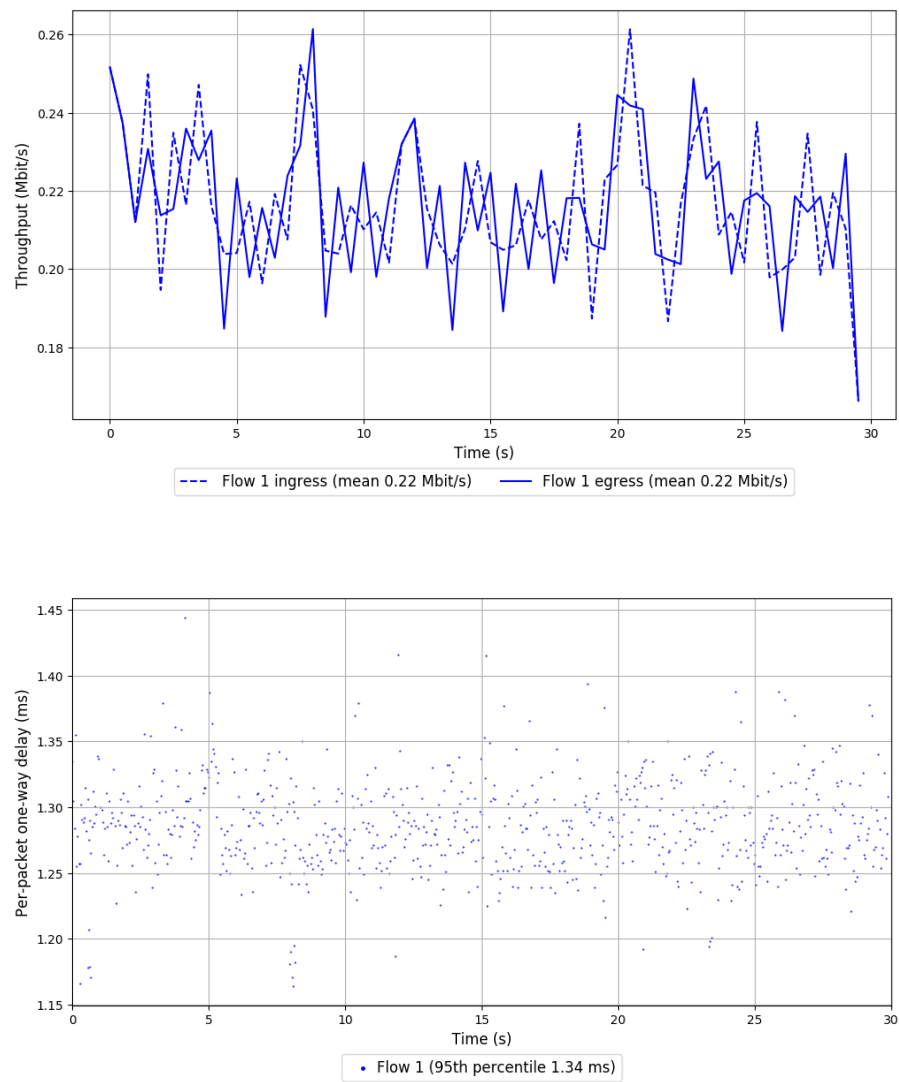
Run 8: Report of SCReAM — Data Link

199

```
Run 9: Statistics of SCReAM

Start at: 2017-08-31 01:21:52
End at: 2017-08-31 01:22:22
Local clock offset: -0.637 ms
Remote clock offset: 0.764 ms


# Below is generated by plot.py at 2017-08-31 07:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.280 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.280 ms
Loss rate: 0.00%
```
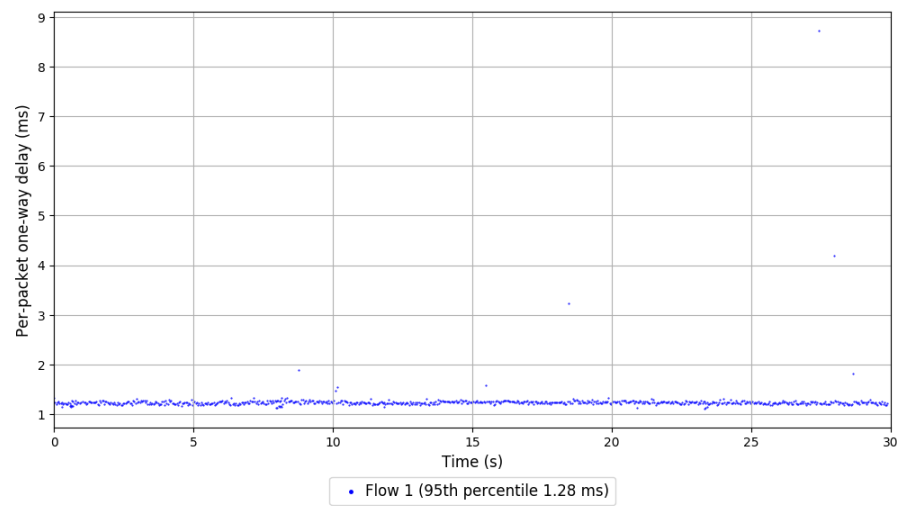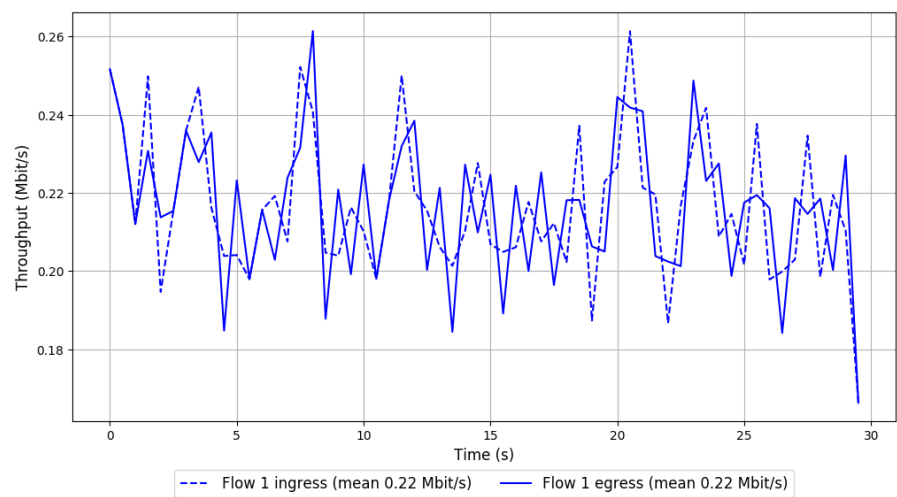
Run 9: Report of SCReAM — Data Link

```
Run 10: Statistics of SCReAM

Start at: 2017-08-31 01:40:49
End at: 2017-08-31 01:41:19
Local clock offset: -0.694 ms
Remote clock offset: 0.423 ms


# Below is generated by plot.py at 2017-08-31 07:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.365 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.365 ms
Loss rate: 0.00%
```
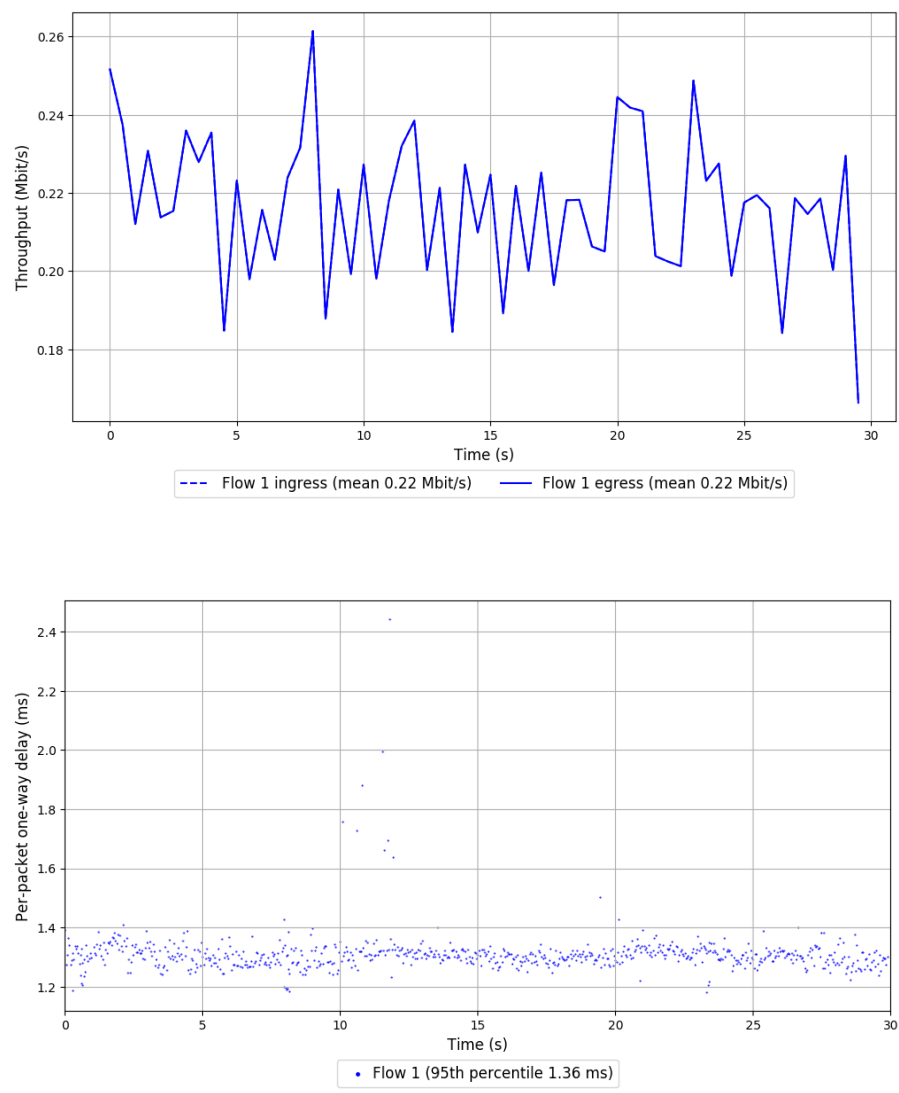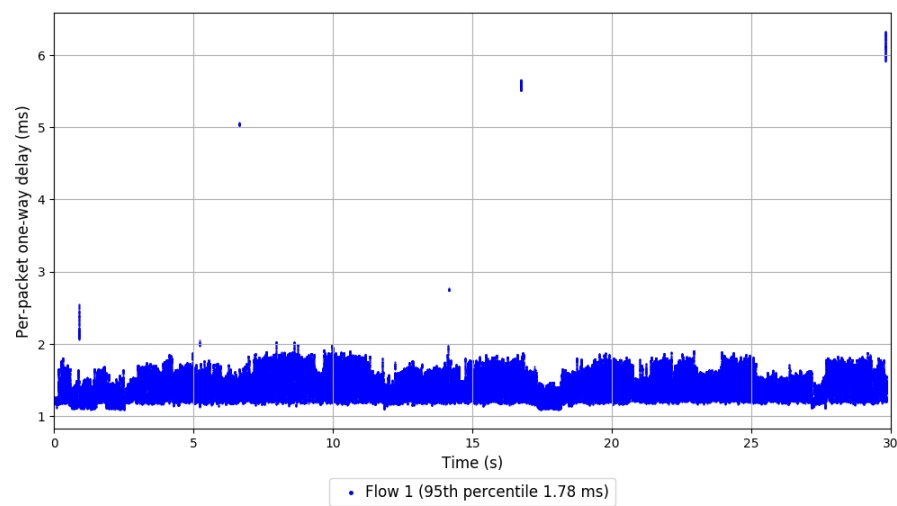
Run 10: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 1.36 ms)

```
Run 1: Statistics of Sprout

Start at: 2017-08-30 23:03:24
End at: 2017-08-30 23:03:54
Local clock offset: -0.756 ms
Remote clock offset: 0.286 ms


# Below is generated by plot.py at 2017-08-31 07:06:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.04 Mbit/s
95th percentile per-packet one-way delay: 1.781 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.04 Mbit/s
95th percentile per-packet one-way delay: 1.781 ms
Loss rate: 0.00%
```
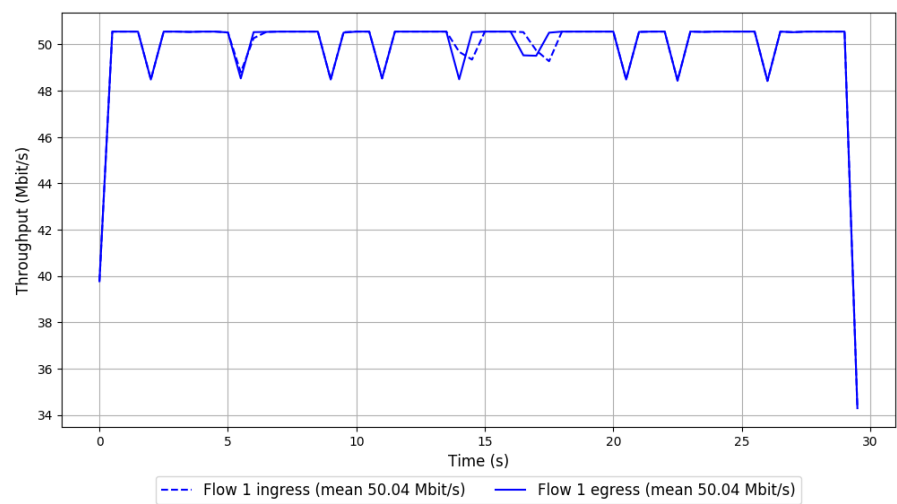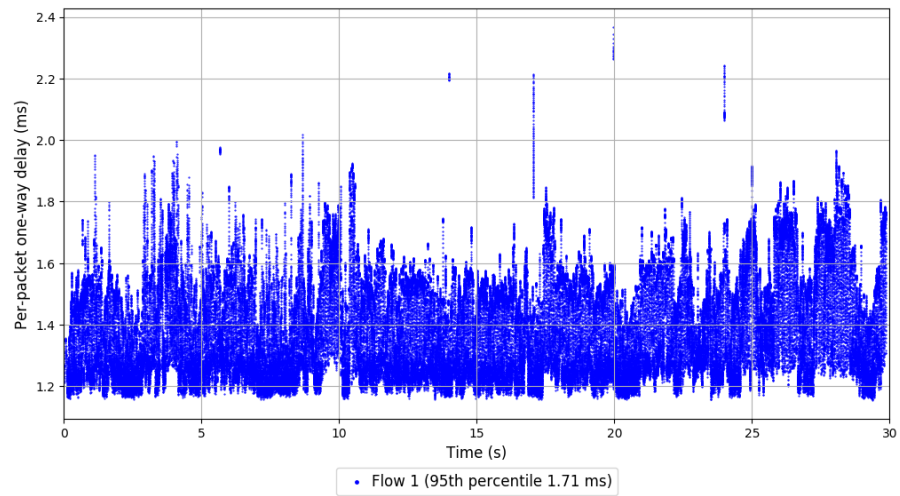
Run 1: Report of Sprout — Data Link

Flow 1 ingress (mean 50.04 Mbit/s) ---- Flow 1 egress (mean 50.04 Mbit/s)

Flow 1 (95th percentile 1.78 ms)

```
Run 2: Statistics of Sprout

Start at: 2017-08-30 23:22:18
End at: 2017-08-30 23:22:48
Local clock offset: -0.569 ms
Remote clock offset: 0.597 ms


# Below is generated by plot.py at 2017-08-31 07:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.03 Mbit/s
95th percentile per-packet one-way delay: 1.711 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.03 Mbit/s
95th percentile per-packet one-way delay: 1.711 ms
Loss rate: 0.00%
```
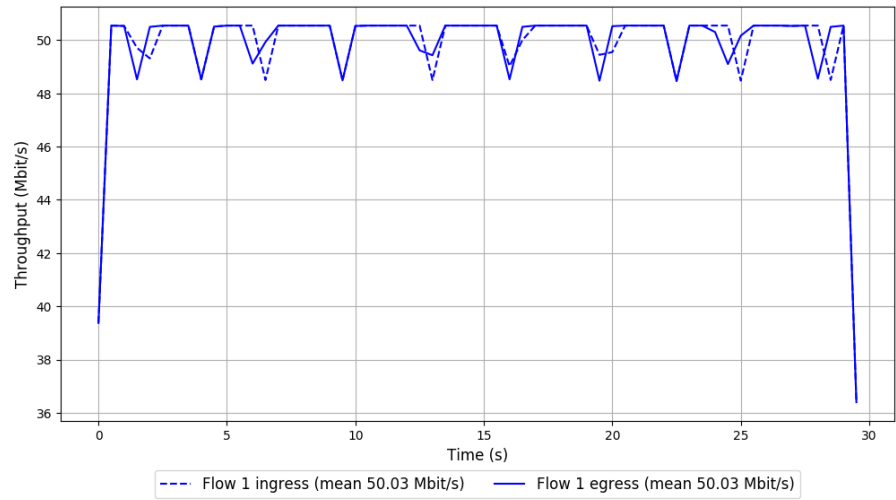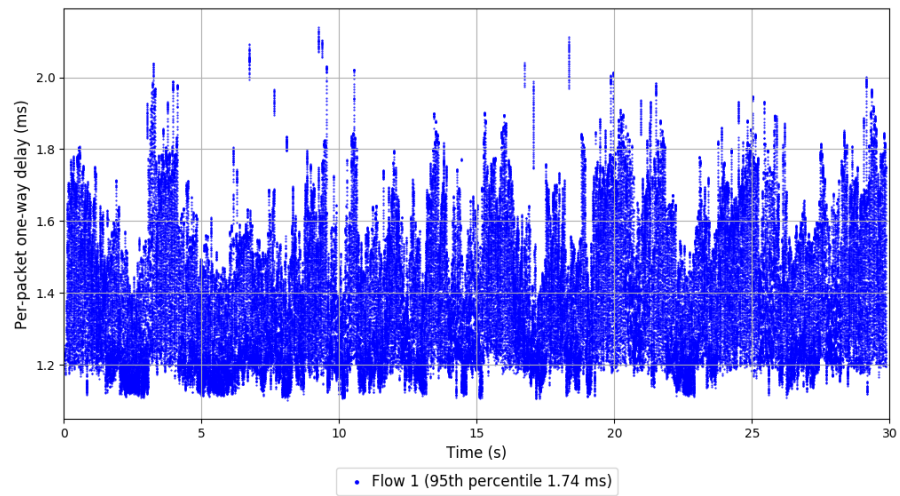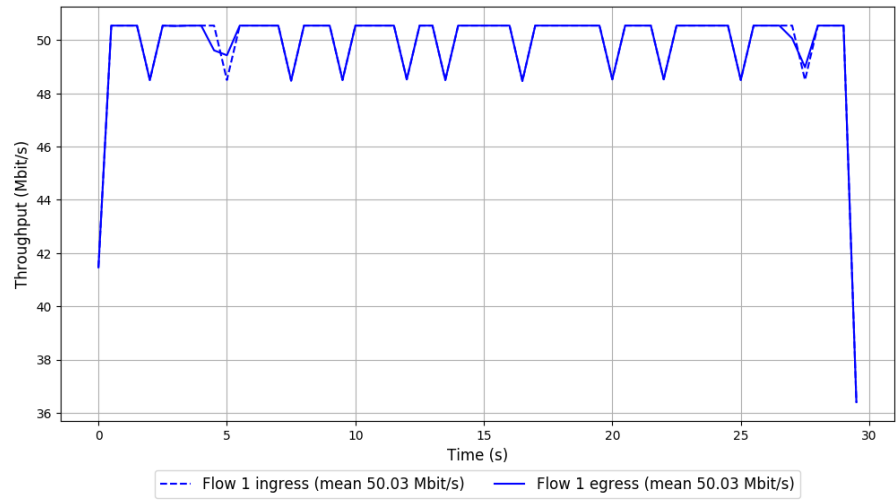
Run 2: Report of Sprout — Data Link

Flow 1 ingress (mean 50.03 Mbit/s) --- Flow 1 egress (mean 50.03 Mbit/s)

Flow 1 (95th percentile 1.71 ms)

```
Run 3: Statistics of Sprout

Start at: 2017-08-30 23:41:05
End at: 2017-08-30 23:41:35
Local clock offset: -0.424 ms
Remote clock offset: 0.892 ms


# Below is generated by plot.py at 2017-08-31 07:07:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.03 Mbit/s
95th percentile per-packet one-way delay: 1.741 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.03 Mbit/s
95th percentile per-packet one-way delay: 1.741 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

Flow 1 ingress (mean 50.03 Mbit/s)   Flow 1 egress (mean 50.03 Mbit/s)

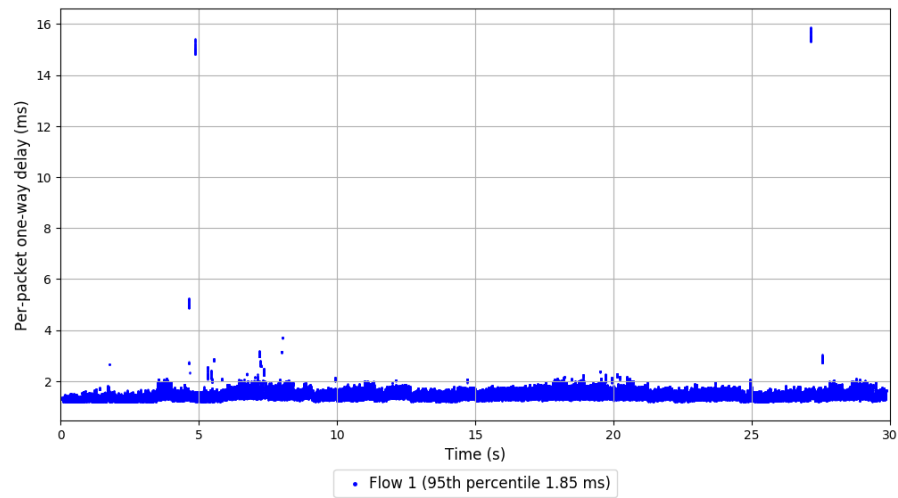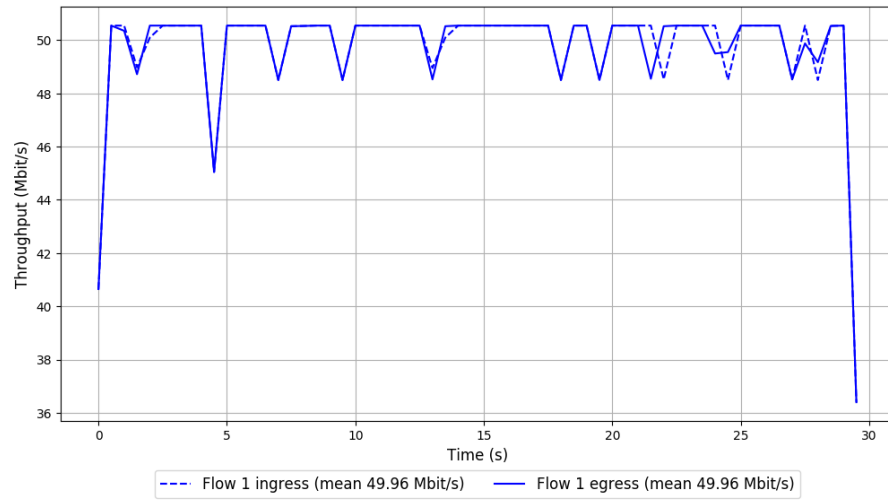Flow 1 (95th percentile 1.74 ms)

```
Run 4: Statistics of Sprout

Start at: 2017-08-30 23:59:55
End at: 2017-08-31 00:00:25
Local clock offset: -0.508 ms
Remote clock offset: 0.97 ms


# Below is generated by plot.py at 2017-08-31 07:07:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.96 Mbit/s
95th percentile per-packet one-way delay: 1.852 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.96 Mbit/s
95th percentile per-packet one-way delay: 1.852 ms
Loss rate: 0.00%
```
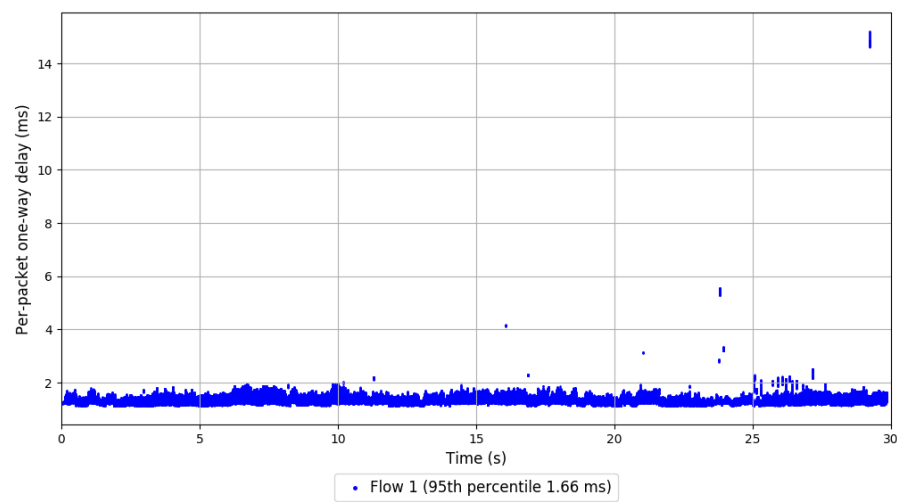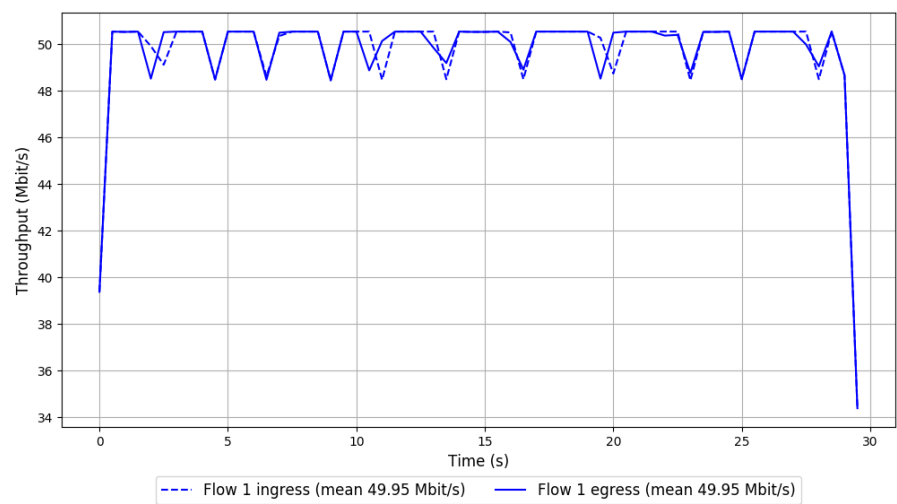
Run 4: Report of Sprout — Data Link

Flow 1 ingress (mean 49.96 Mbit/s) --- Flow 1 egress (mean 49.96 Mbit/s)

Flow 1 (95th percentile 1.85 ms)

```
Run 5: Statistics of Sprout

Start at: 2017-08-31 00:18:35
End at: 2017-08-31 00:19:05
Local clock offset: -0.729 ms
Remote clock offset: 0.918 ms


# Below is generated by plot.py at 2017-08-31 07:07:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.95 Mbit/s
95th percentile per-packet one-way delay: 1.663 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.95 Mbit/s
95th percentile per-packet one-way delay: 1.663 ms
Loss rate: 0.00%
```
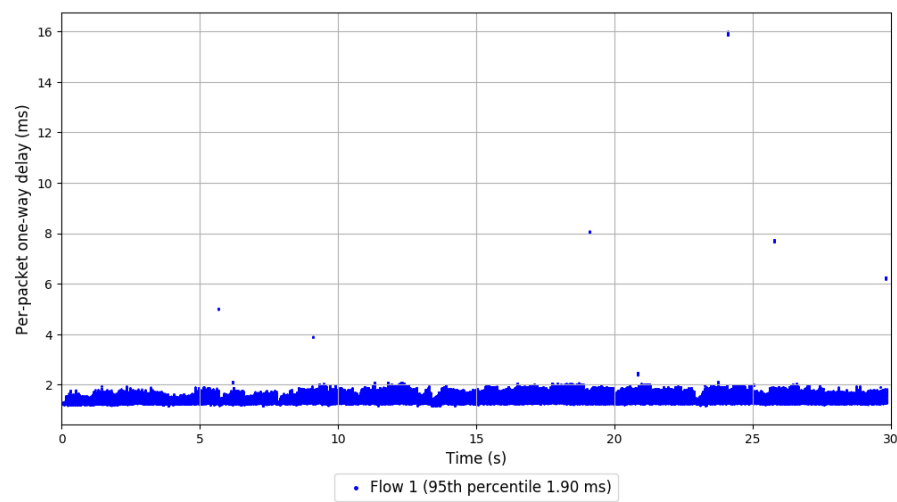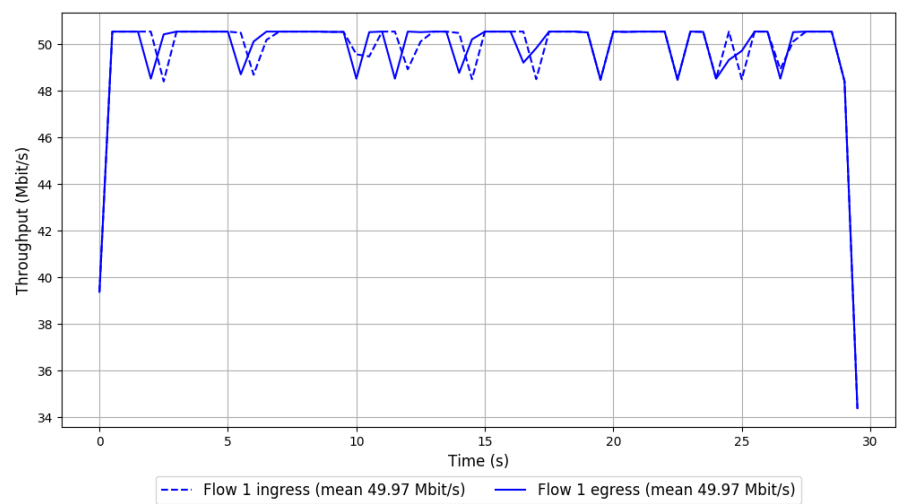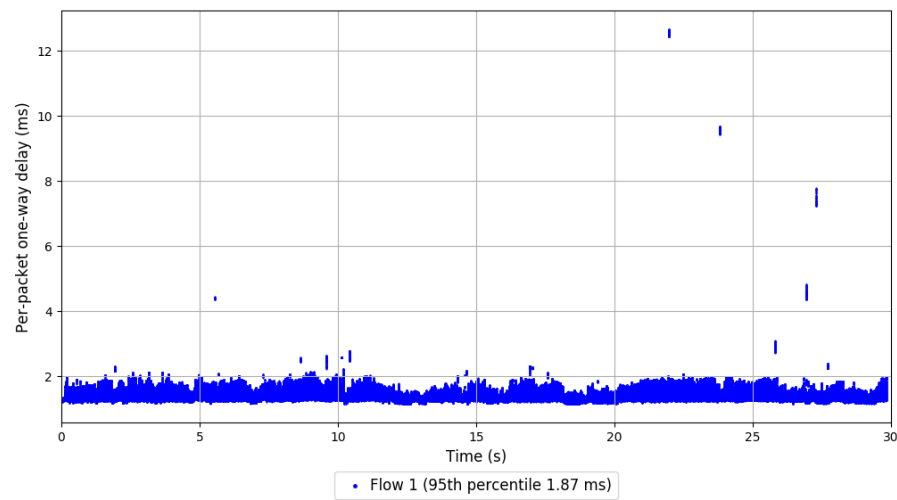
Run 5: Report of Sprout — Data Link

```
Run 6: Statistics of Sprout

Start at: 2017-08-31 00:37:14
End at: 2017-08-31 00:37:44
Local clock offset: -0.77 ms
Remote clock offset: 1.048 ms


# Below is generated by plot.py at 2017-08-31 07:07:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.97 Mbit/s
95th percentile per-packet one-way delay: 1.900 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.97 Mbit/s
95th percentile per-packet one-way delay: 1.900 ms
Loss rate: 0.00%
```

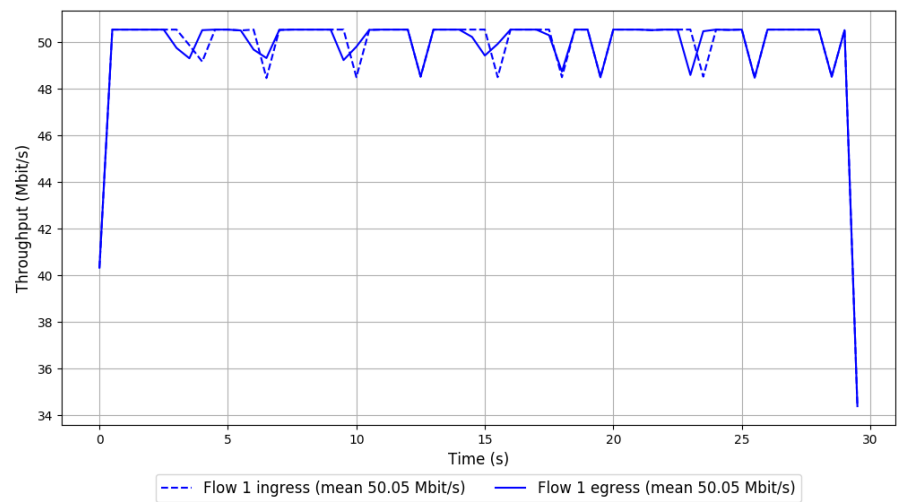Run 6: Report of Sprout — Data Link

```
Run 7: Statistics of Sprout

Start at: 2017-08-31 00:55:52
End at: 2017-08-31 00:56:22
Local clock offset: -0.721 ms
Remote clock offset: 0.934 ms


# Below is generated by plot.py at 2017-08-31 07:07:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.05 Mbit/s
95th percentile per-packet one-way delay: 1.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.05 Mbit/s
95th percentile per-packet one-way delay: 1.873 ms
Loss rate: 0.00%
```

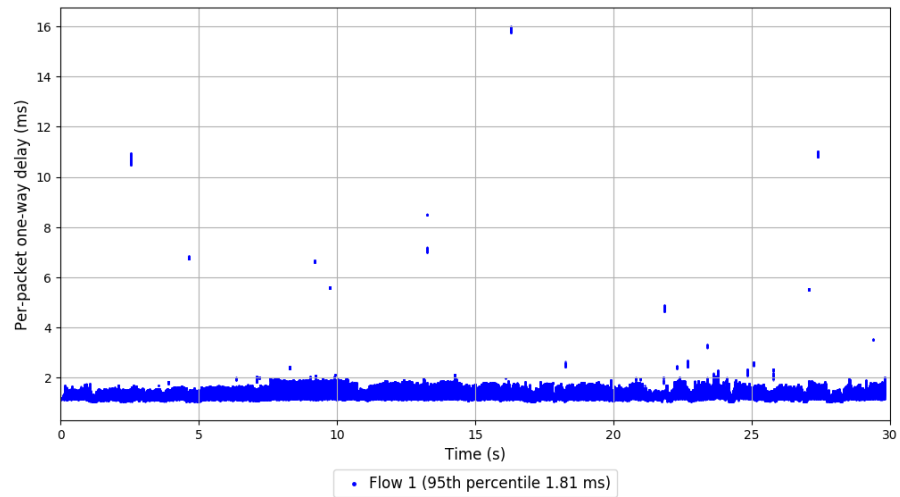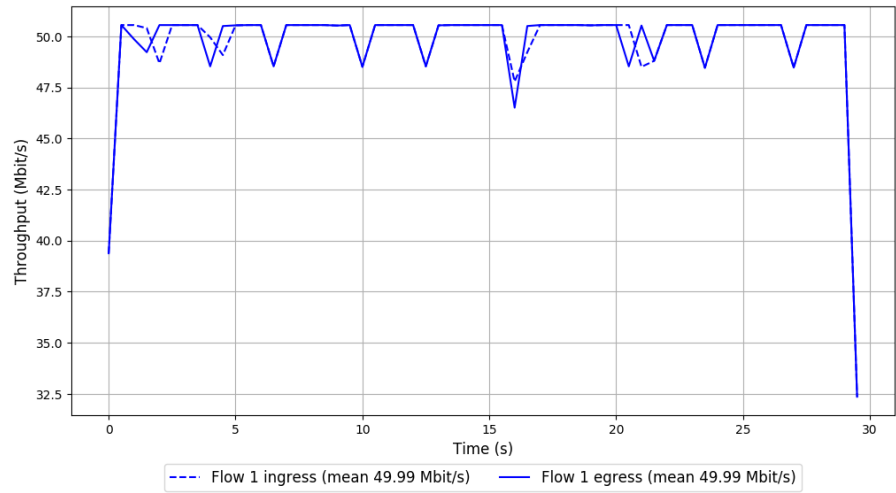Run 7: Report of Sprout — Data Link

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```
Run 8: Statistics of Sprout

Start at: 2017-08-31 01:14:38
End at: 2017-08-31 01:15:08
Local clock offset: -0.858 ms
Remote clock offset: 0.782 ms


# Below is generated by plot.py at 2017-08-31 07:07:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.99 Mbit/s
95th percentile per-packet one-way delay: 1.807 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.99 Mbit/s
95th percentile per-packet one-way delay: 1.807 ms
Loss rate: 0.00%
```
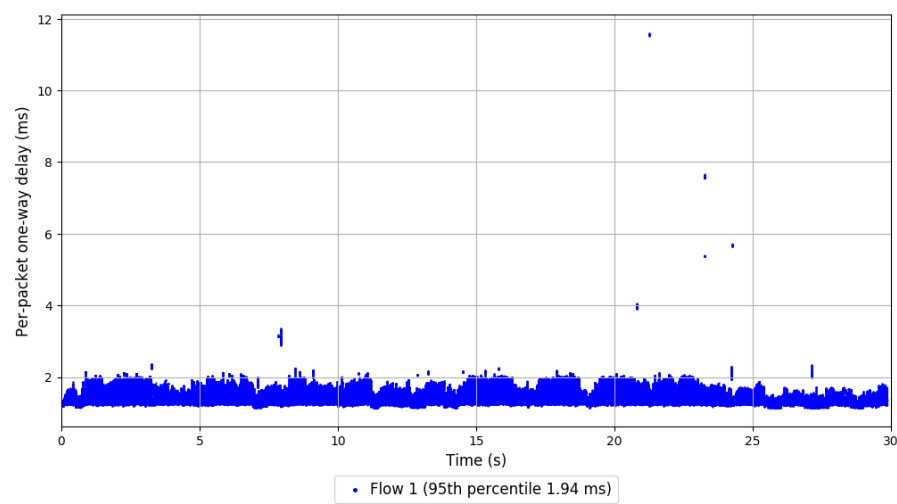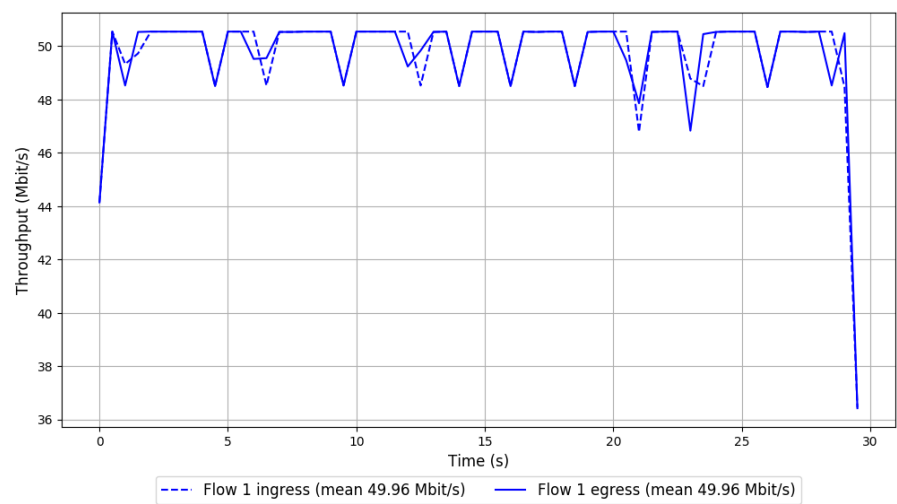
Run 8: Report of Sprout — Data Link

Flow 1 ingress (mean 49.99 Mbit/s) --- Flow 1 egress (mean 49.99 Mbit/s)

Flow 1 (95th percentile 1.81 ms)

```
Run 9: Statistics of Sprout

Start at: 2017-08-31 01:33:29
End at: 2017-08-31 01:33:59
Local clock offset: -0.601 ms
Remote clock offset: 0.583 ms


# Below is generated by plot.py at 2017-08-31 07:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.96 Mbit/s
95th percentile per-packet one-way delay: 1.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.96 Mbit/s
95th percentile per-packet one-way delay: 1.938 ms
Loss rate: 0.00%
```
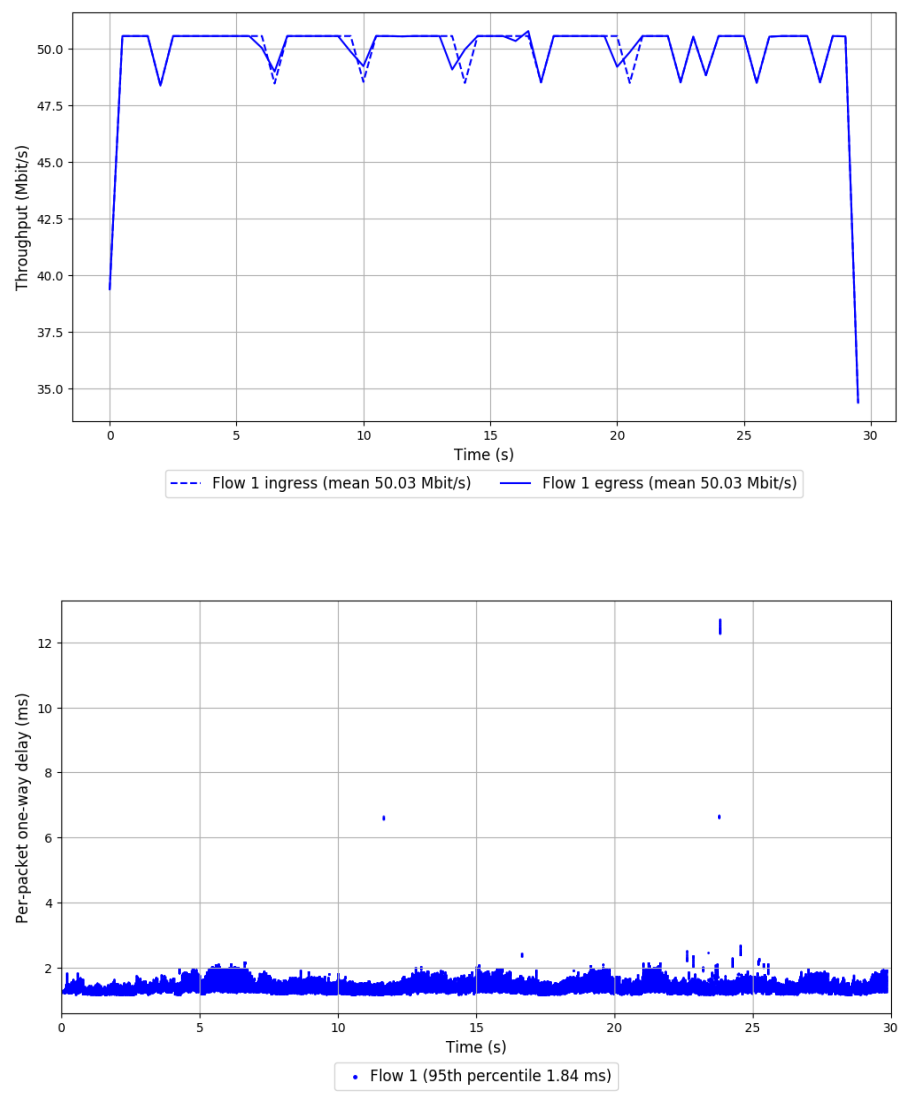
Run 9: Report of Sprout — Data Link

Flow 1 ingress (mean 49.96 Mbit/s) --- Flow 1 egress (mean 49.96 Mbit/s)

Flow 1 (95th percentile 1.94 ms)

```
Run 10: Statistics of Sprout

Start at: 2017-08-31 01:52:37
End at: 2017-08-31 01:53:08
Local clock offset: -0.846 ms
Remote clock offset: 0.238 ms


# Below is generated by plot.py at 2017-08-31 07:07:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.03 Mbit/s
95th percentile per-packet one-way delay: 1.844 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.03 Mbit/s
95th percentile per-packet one-way delay: 1.844 ms
Loss rate: 0.00%
```
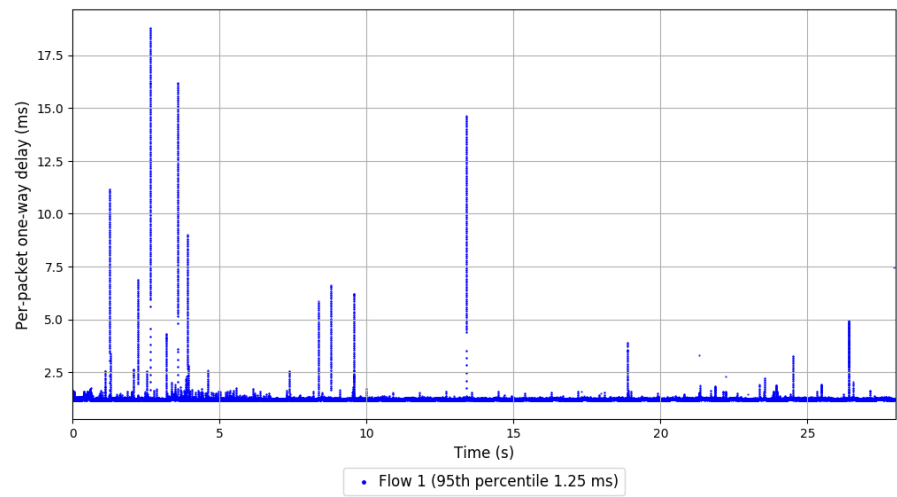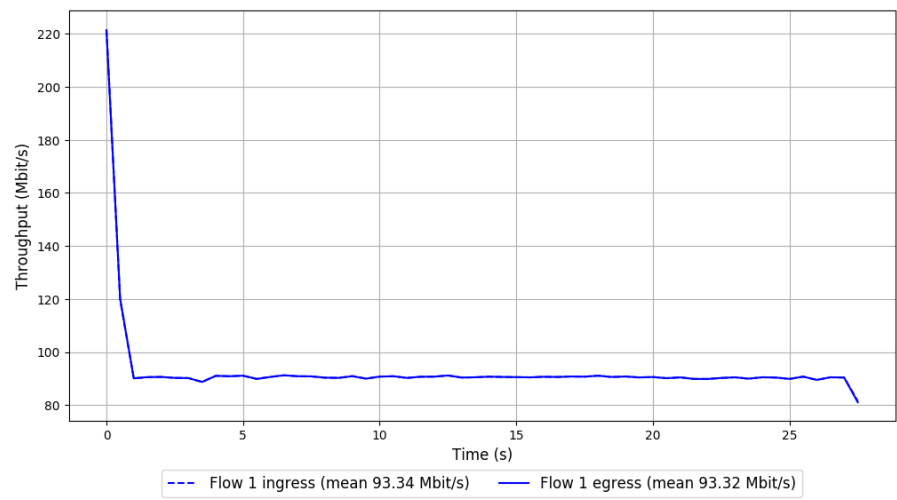
Run 10: Report of Sprout — Data Link

Flow 1 ingress (mean 50.03 Mbit/s) — Flow 1 egress (mean 50.03 Mbit/s)

Flow 1 (95th percentile 1.84 ms)

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

Start at: 2017-08-30 23:04:29
End at: 2017-08-30 23:04:59
Local clock offset: -0.681 ms
Remote clock offset: 0.295 ms


# Below is generated by plot.py at 2017-08-31 07:07:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.32 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 93.32 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.01%
```

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

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

Start at: 2017-08-30 23:23:23
End at: 2017-08-30 23:23:53
Local clock offset: -0.547 ms
Remote clock offset: 0.549 ms


# Below is generated by plot.py at 2017-08-31 07:07:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.08 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 65.08 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.02%
```
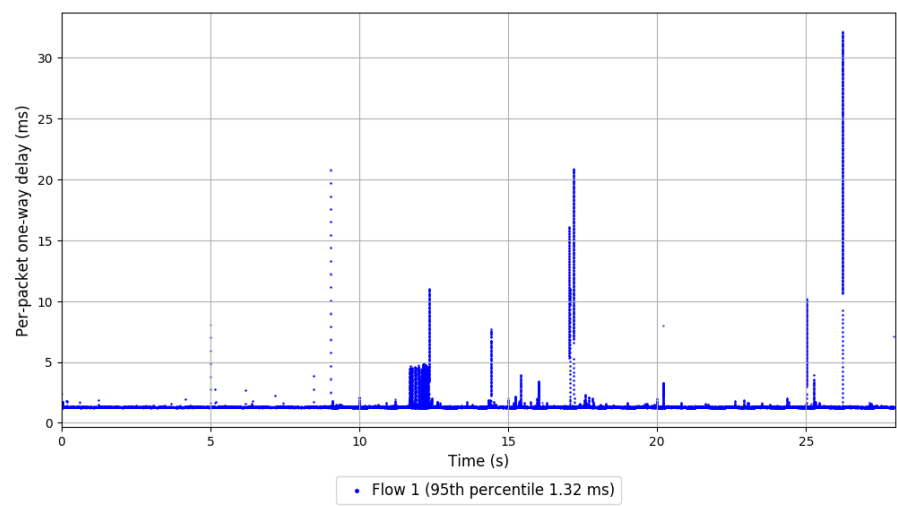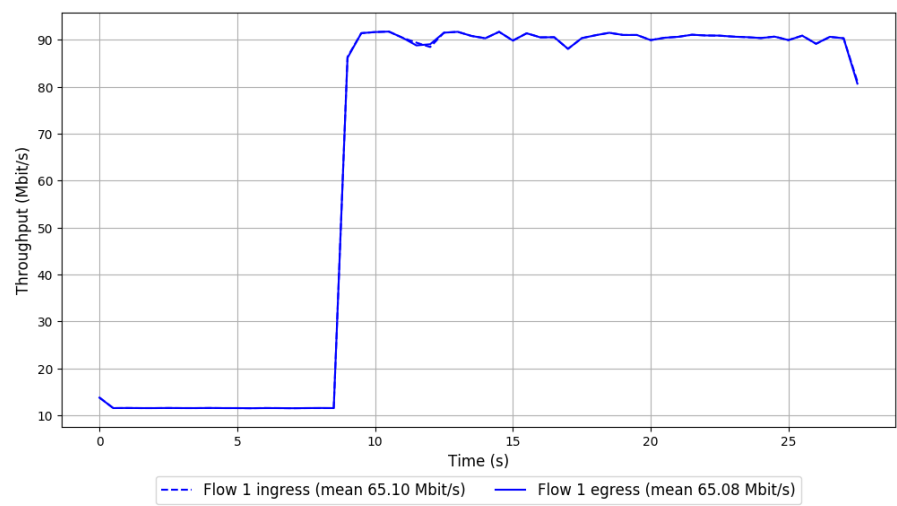
Run 2: Report of TaoVA-100x — Data Link

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

Start at: 2017-08-30 23:42:10
End at: 2017-08-30 23:42:40
Local clock offset: -0.395 ms
Remote clock offset: 0.903 ms


# Below is generated by plot.py at 2017-08-31 07:08:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.33 Mbit/s
95th percentile per-packet one-way delay: 1.212 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.33 Mbit/s
95th percentile per-packet one-way delay: 1.212 ms
Loss rate: 0.01%
```
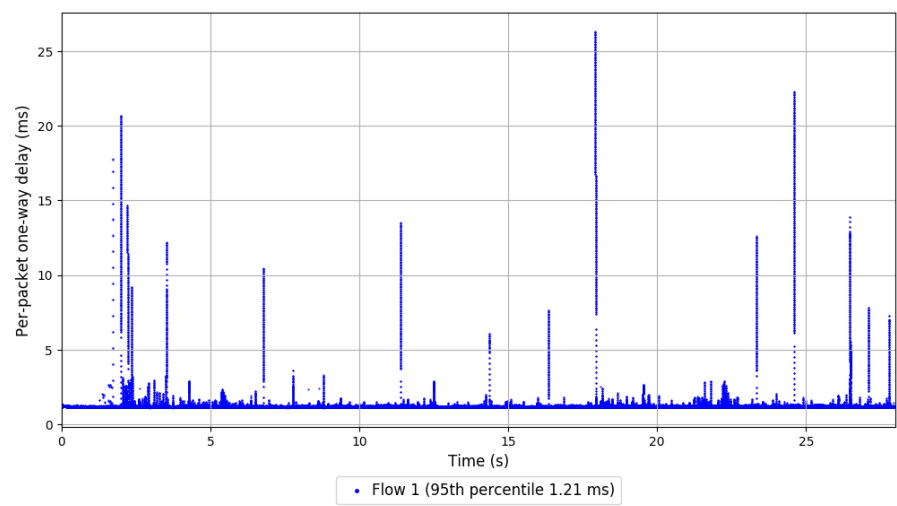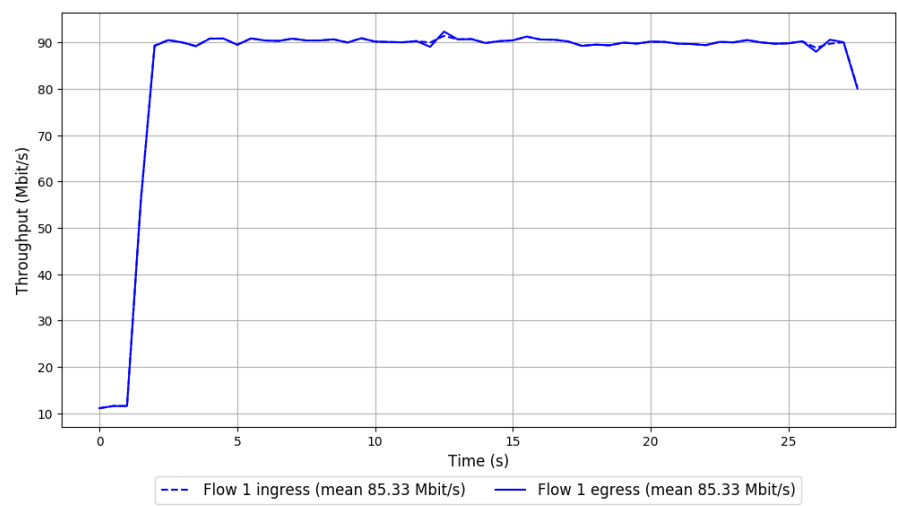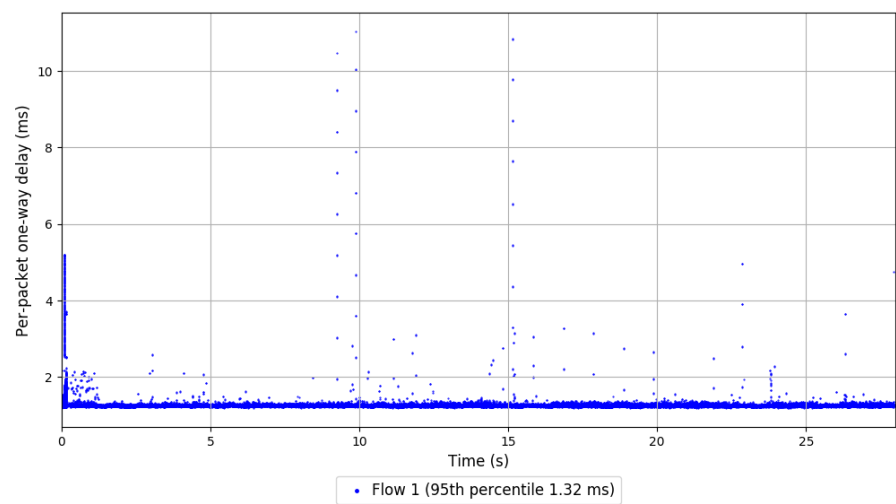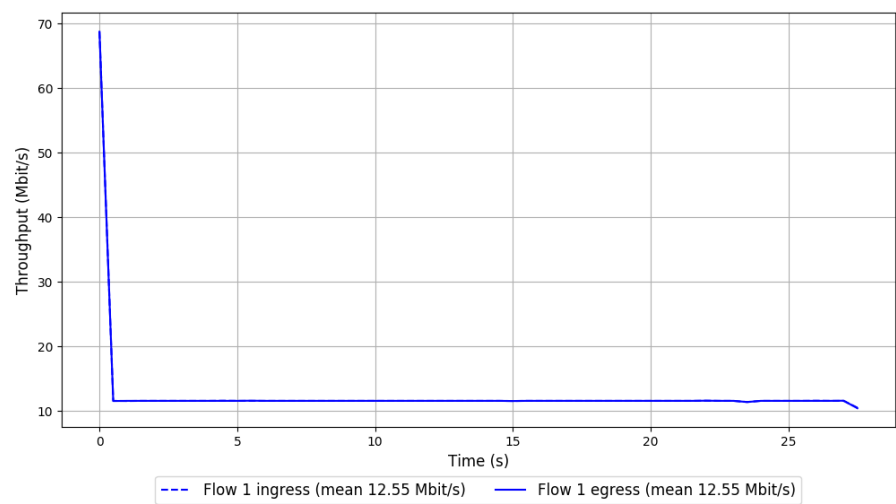
Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 85.33 Mbit/s) ---- Flow 1 egress (mean 85.33 Mbit/s)

Flow 1 (95th percentile 1.21 ms)

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

Start at: 2017-08-31 00:01:00
End at: 2017-08-31 00:01:30
Local clock offset: -0.576 ms
Remote clock offset: 0.91 ms


# Below is generated by plot.py at 2017-08-31 07:08:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.55 Mbit/s
95th percentile per-packet one-way delay: 1.317 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 12.55 Mbit/s
95th percentile per-packet one-way delay: 1.317 ms
Loss rate: 0.02%
```

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

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

Start at: 2017-08-31 00:19:41
End at: 2017-08-31 00:20:11
Local clock offset: -0.664 ms
Remote clock offset: 0.949 ms


# Below is generated by plot.py at 2017-08-31 07:08:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.89 Mbit/s
95th percentile per-packet one-way delay: 1.253 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 33.89 Mbit/s
95th percentile per-packet one-way delay: 1.253 ms
Loss rate: 0.04%
```
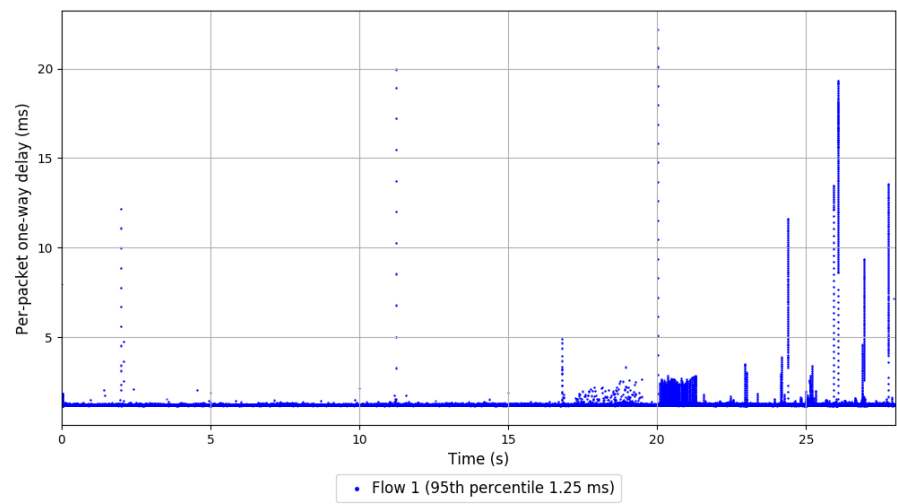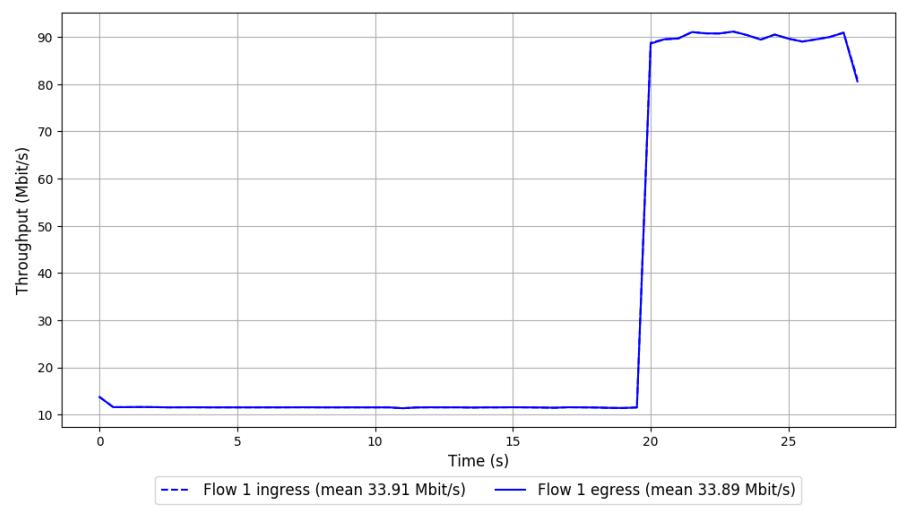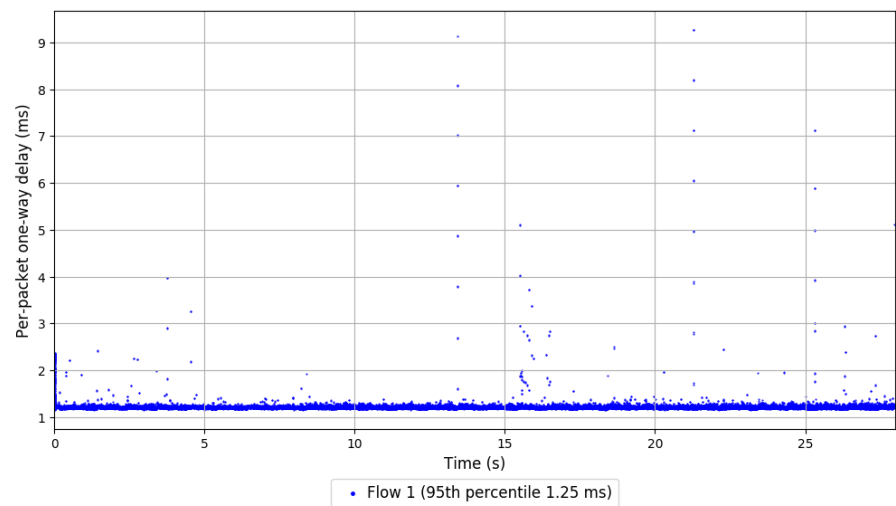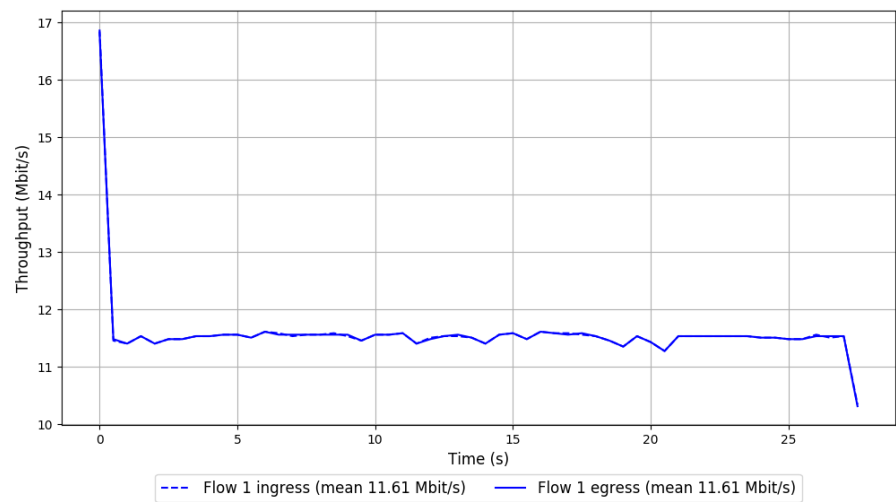
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 33.91 Mbit/s)   Flow 1 egress (mean 33.89 Mbit/s)

Flow 1 (95th percentile 1.25 ms)

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

Start at: 2017-08-31 00:38:19
End at: 2017-08-31 00:38:49
Local clock offset: -0.843 ms
Remote clock offset: 0.974 ms


# Below is generated by plot.py at 2017-08-31 07:08:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.01%
```
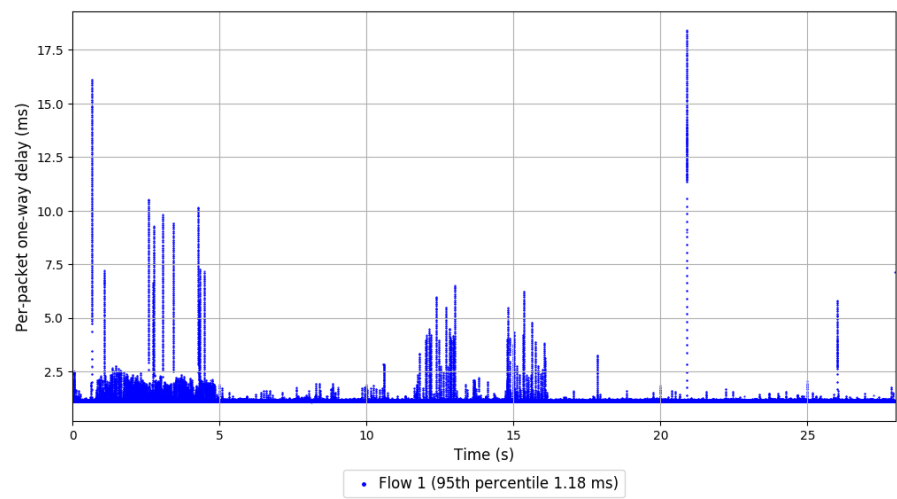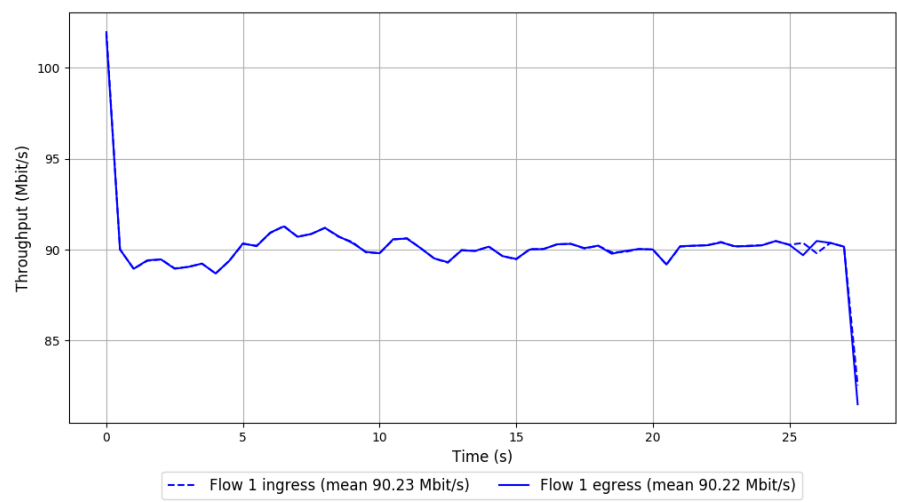
Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 11.61 Mbit/s)   Flow 1 egress (mean 11.61 Mbit/s)

Flow 1 (95th percentile 1.25 ms)

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

Start at: 2017-08-31 00:56:57
End at: 2017-08-31 00:57:27
Local clock offset: -0.835 ms
Remote clock offset: 0.893 ms


# Below is generated by plot.py at 2017-08-31 07:08:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.22 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.22 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.02%
```
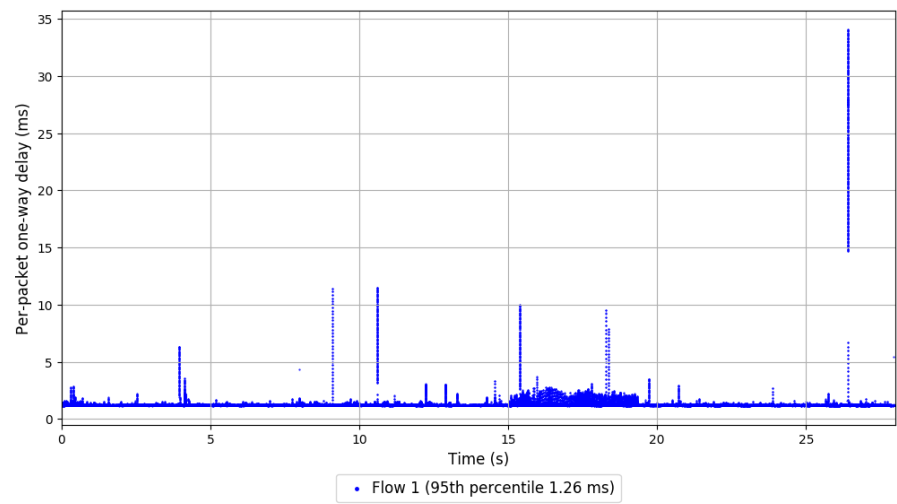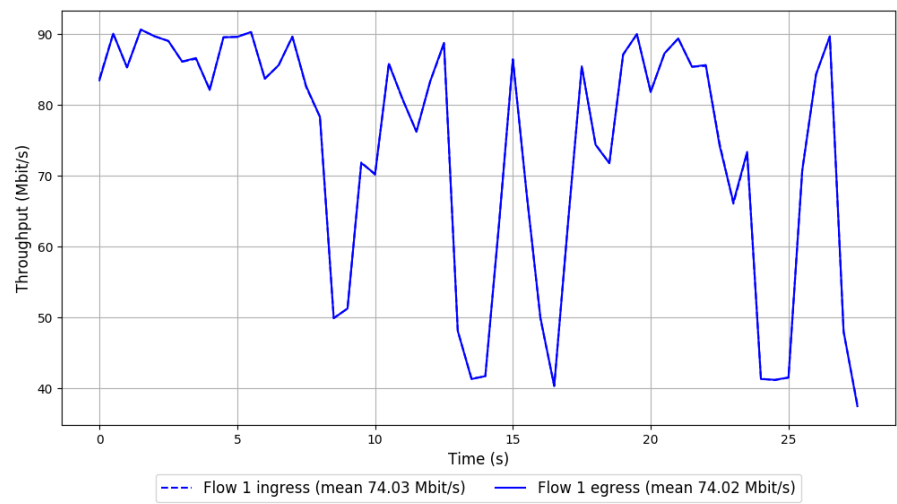
Run 7: Report of TaoVA-100x — Data Link

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

Start at: 2017-08-31 01:15:43
End at: 2017-08-31 01:16:13
Local clock offset: -0.72 ms
Remote clock offset: 0.774 ms


# Below is generated by plot.py at 2017-08-31 07:08:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.02 Mbit/s
95th percentile per-packet one-way delay: 1.261 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 74.02 Mbit/s
95th percentile per-packet one-way delay: 1.261 ms
Loss rate: 0.01%
```
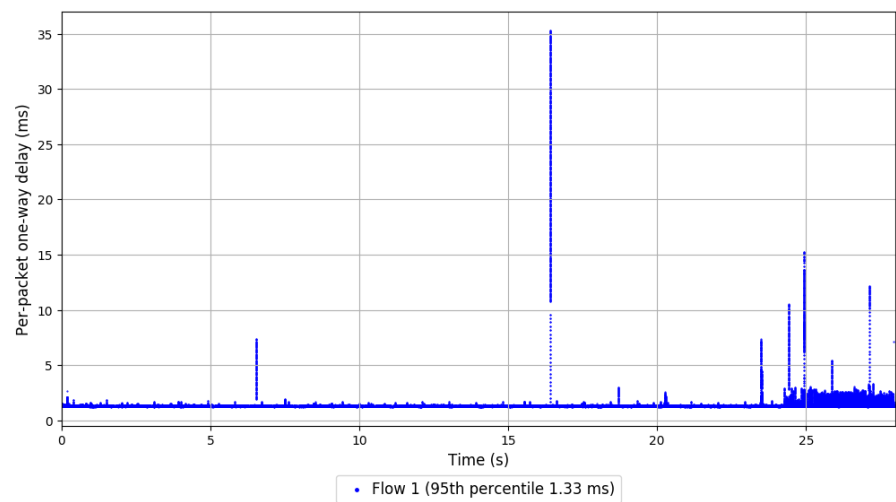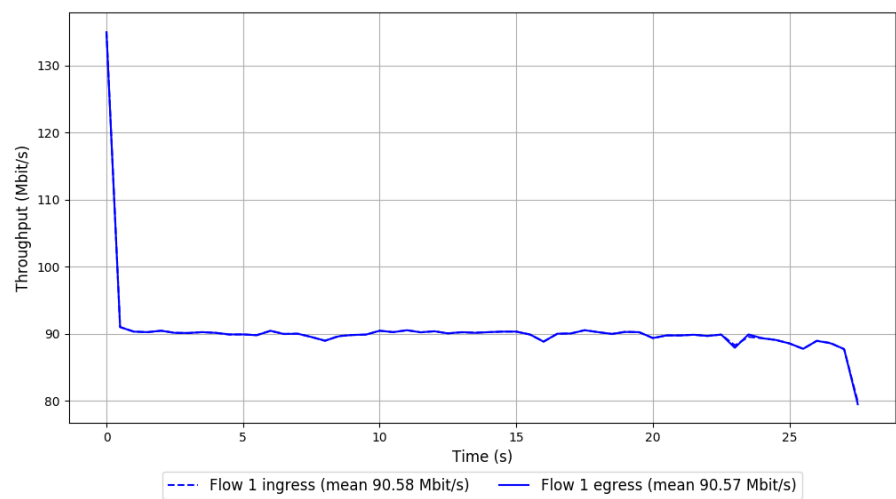
Run 8: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 74.03 Mbit/s) --- Flow 1 egress (mean 74.02 Mbit/s)

Flow 1 (95th percentile 1.26 ms)

239

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

Start at: 2017-08-31 01:34:34
End at: 2017-08-31 01:35:04
Local clock offset: -0.626 ms
Remote clock offset: 0.457 ms


# Below is generated by plot.py at 2017-08-31 07:08:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.57 Mbit/s
95th percentile per-packet one-way delay: 1.335 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 90.57 Mbit/s
95th percentile per-packet one-way delay: 1.335 ms
Loss rate: 0.01%
```
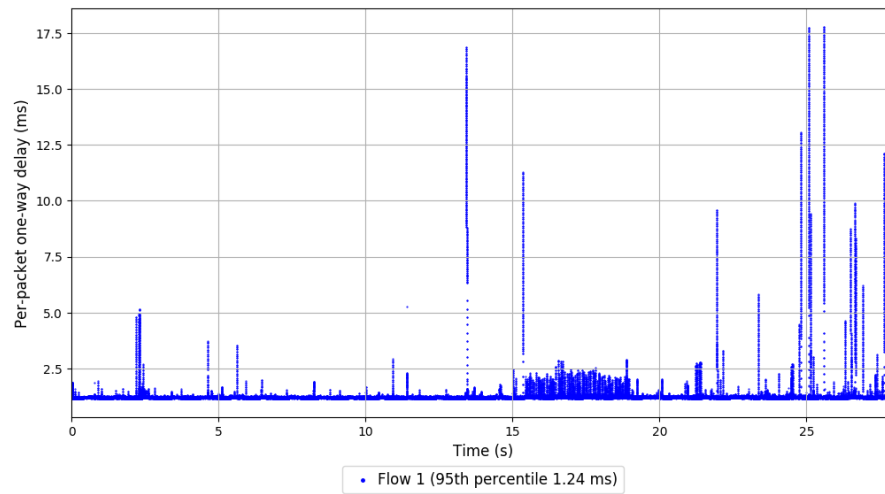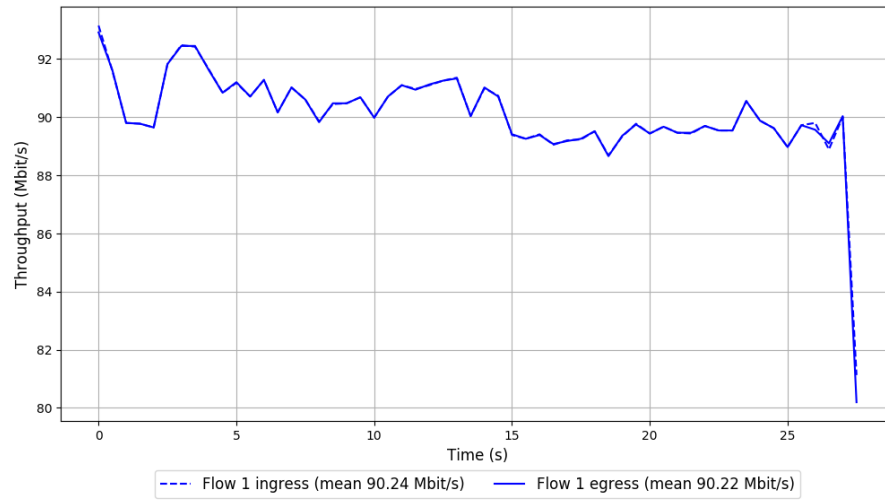
Run 9: Report of TaoVA-100x — Data Link

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

Start at: 2017-08-31 01:53:43
End at: 2017-08-31 01:54:13
Local clock offset: -0.858 ms
Remote clock offset: 0.239 ms


# Below is generated by plot.py at 2017-08-31 07:08:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.22 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.22 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 0.02%
```
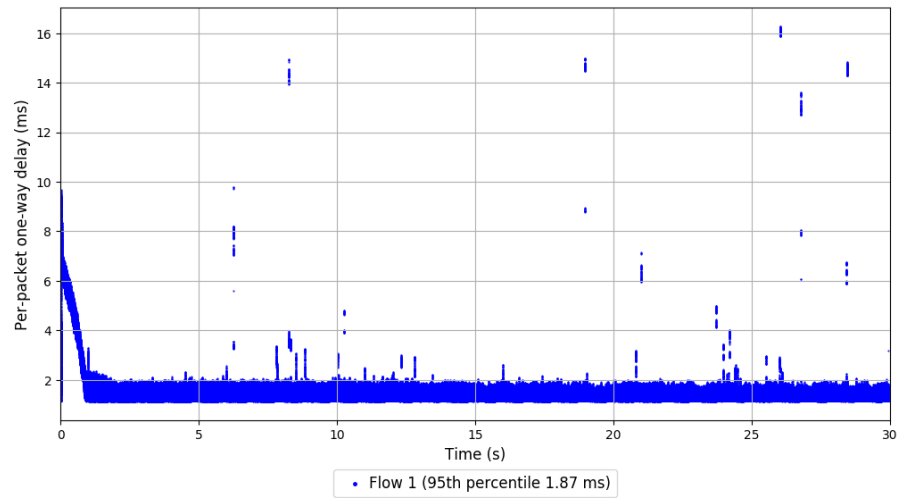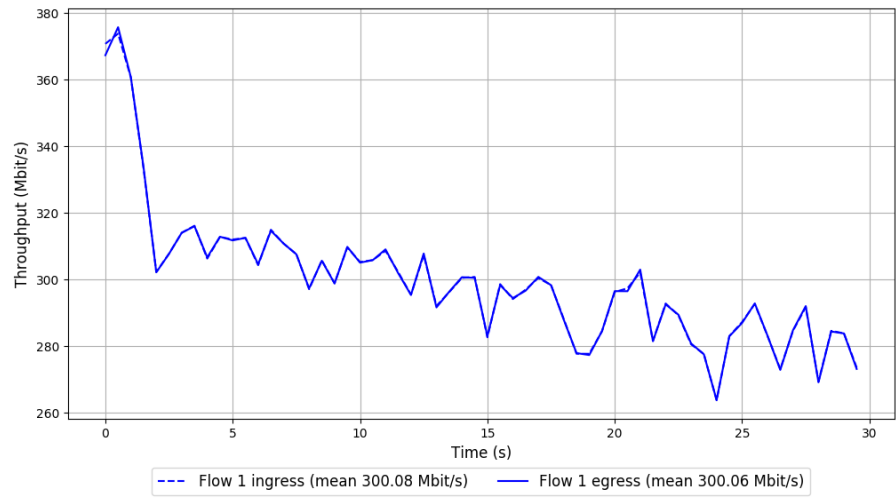
Run 10: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 90.24 Mbit/s) ----- Flow 1 egress (mean 90.22 Mbit/s)

Flow 1 (95th percentile 1.24 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2017-08-30 22:49:11
End at: 2017-08-30 22:49:41
Local clock offset: -0.582 ms
Remote clock offset: 0.148 ms


# Below is generated by plot.py at 2017-08-31 07:09:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.06 Mbit/s
95th percentile per-packet one-way delay: 1.872 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 300.06 Mbit/s
95th percentile per-packet one-way delay: 1.872 ms
Loss rate: 0.01%
```
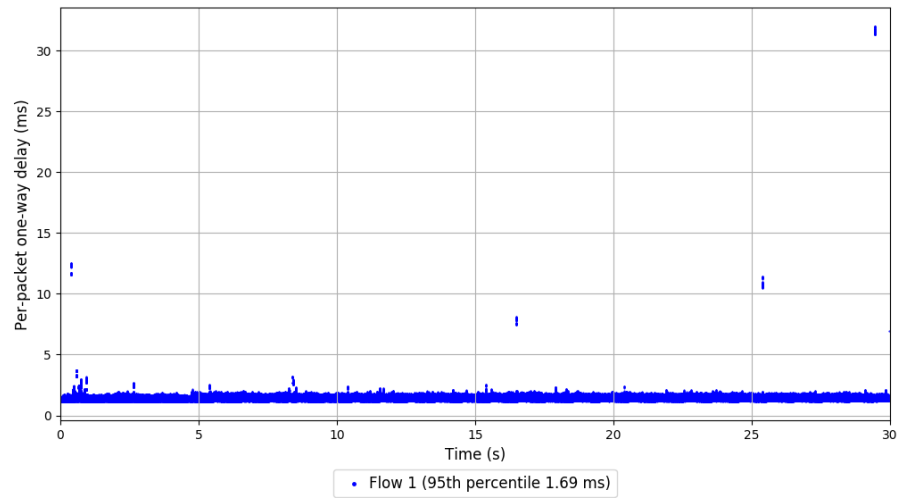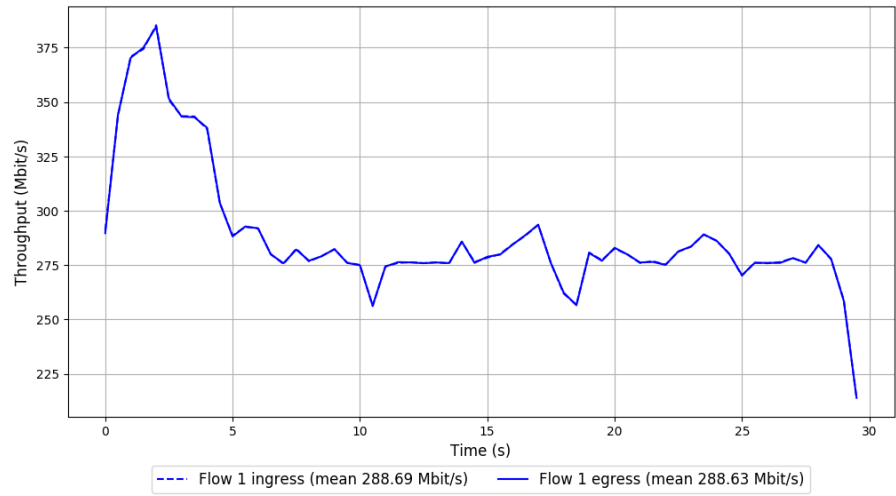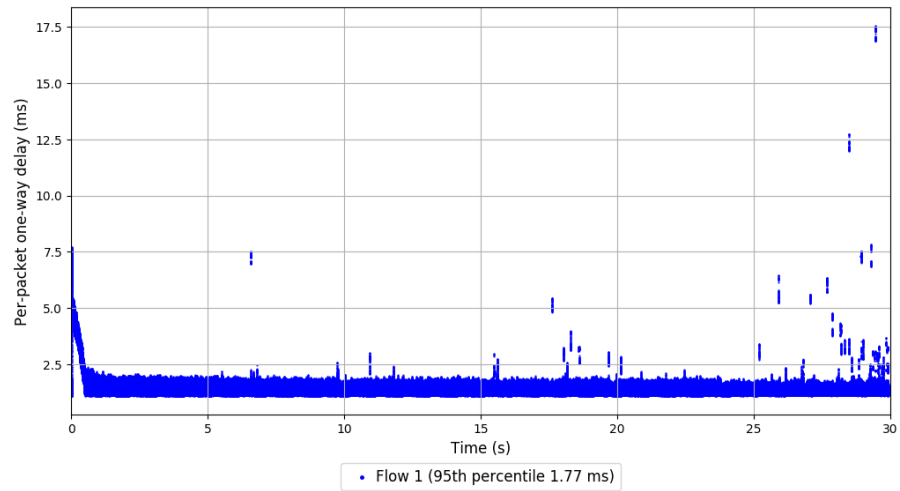
Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2017-08-30 23:08:11
End at: 2017-08-30 23:08:41
Local clock offset: -0.697 ms
Remote clock offset: 0.367 ms


# Below is generated by plot.py at 2017-08-31 07:09:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 288.63 Mbit/s
95th percentile per-packet one-way delay: 1.685 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 288.63 Mbit/s
95th percentile per-packet one-way delay: 1.685 ms
Loss rate: 0.01%
```

Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2017-08-30 23:27:03
End at: 2017-08-30 23:27:33
Local clock offset: -0.536 ms
Remote clock offset: 0.711 ms


# Below is generated by plot.py at 2017-08-31 07:09:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 302.26 Mbit/s
95th percentile per-packet one-way delay: 1.766 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 302.26 Mbit/s
95th percentile per-packet one-way delay: 1.766 ms
Loss rate: 0.01%
```
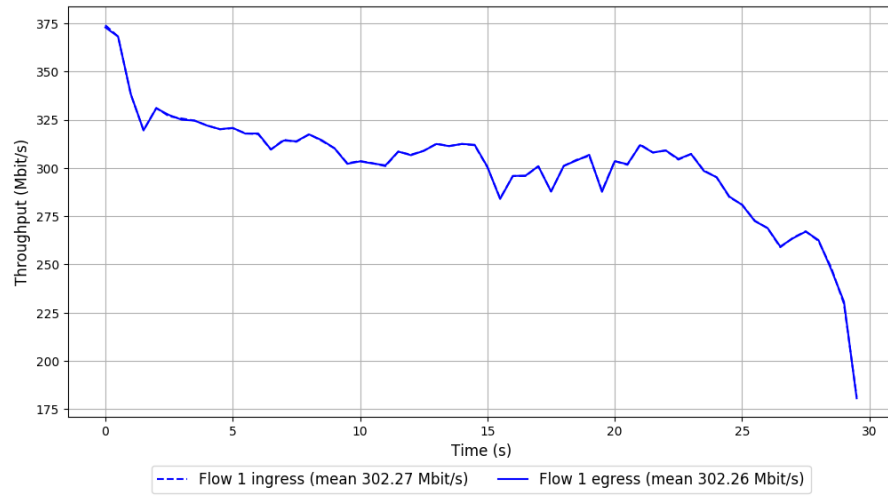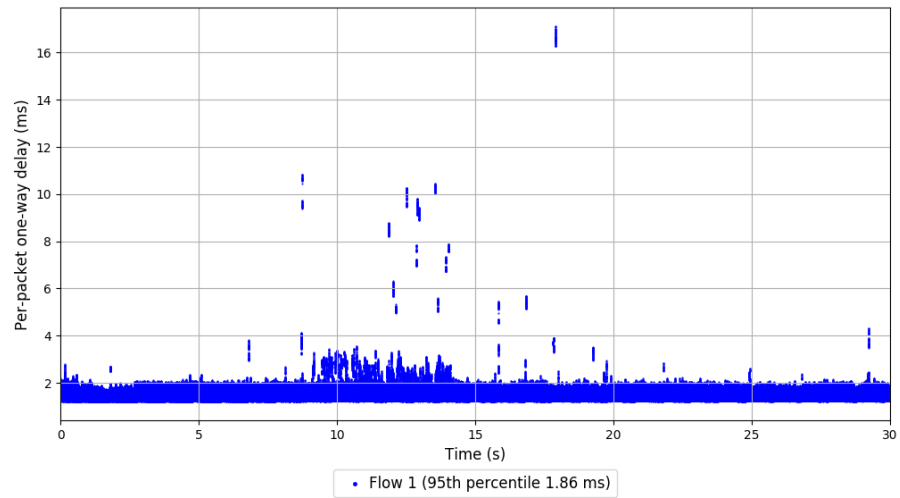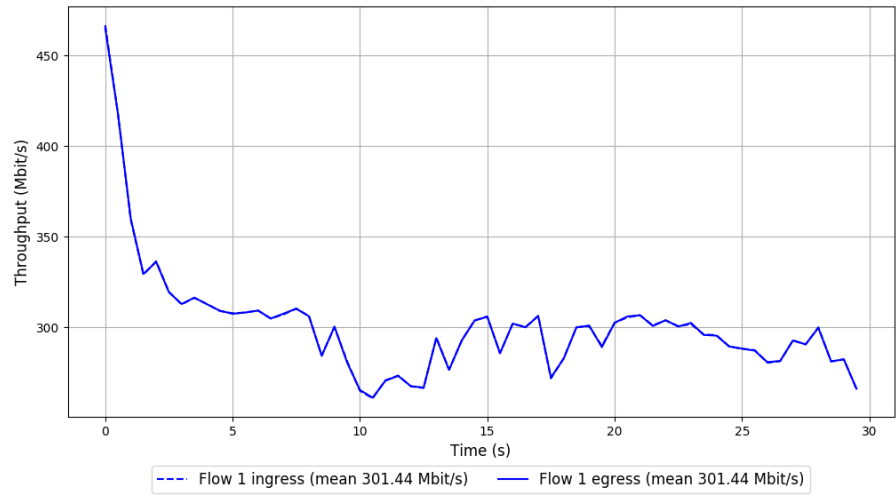
Run 3: Report of TCP Vegas — Data Link

```
Run 4: Statistics of TCP Vegas

Start at: 2017-08-30 23:45:51
End at: 2017-08-30 23:46:21
Local clock offset: -0.415 ms
Remote clock offset: 0.872 ms


# Below is generated by plot.py at 2017-08-31 07:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 301.44 Mbit/s
95th percentile per-packet one-way delay: 1.864 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 301.44 Mbit/s
95th percentile per-packet one-way delay: 1.864 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2017-08-31 00:04:34
End at: 2017-08-31 00:05:05
Local clock offset: -0.525 ms
Remote clock offset: 0.986 ms


# Below is generated by plot.py at 2017-08-31 07:10:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 320.70 Mbit/s
95th percentile per-packet one-way delay: 1.810 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 320.70 Mbit/s
95th percentile per-packet one-way delay: 1.810 ms
Loss rate: 0.01%
```
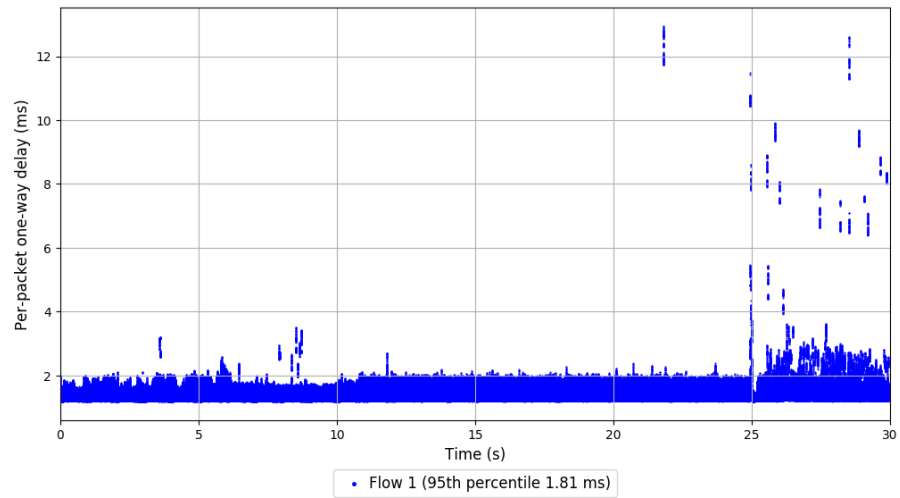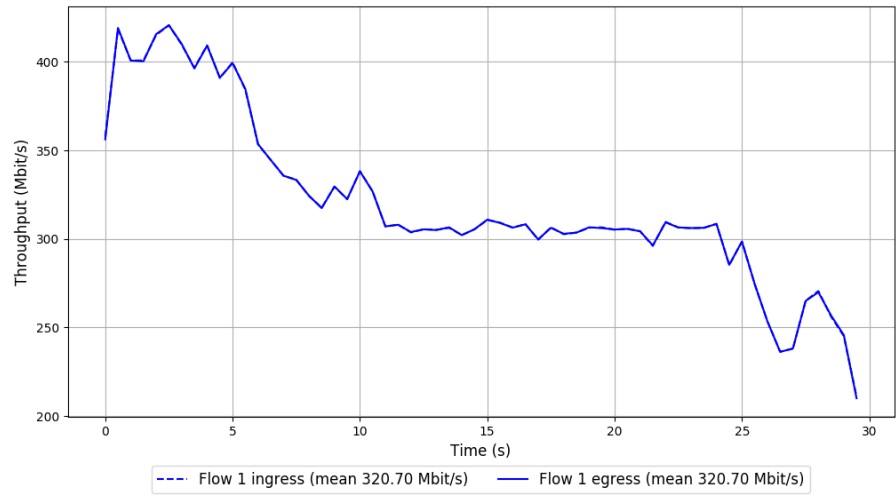
Run 5: Report of TCP Vegas — Data Link

```
Run 6: Statistics of TCP Vegas

Start at: 2017-08-31 00:23:18
End at: 2017-08-31 00:23:48
Local clock offset: -0.722 ms
Remote clock offset: 1.0 ms


# Below is generated by plot.py at 2017-08-31 07:10:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 348.01 Mbit/s
95th percentile per-packet one-way delay: 2.088 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 348.01 Mbit/s
95th percentile per-packet one-way delay: 2.088 ms
Loss rate: 0.01%
```
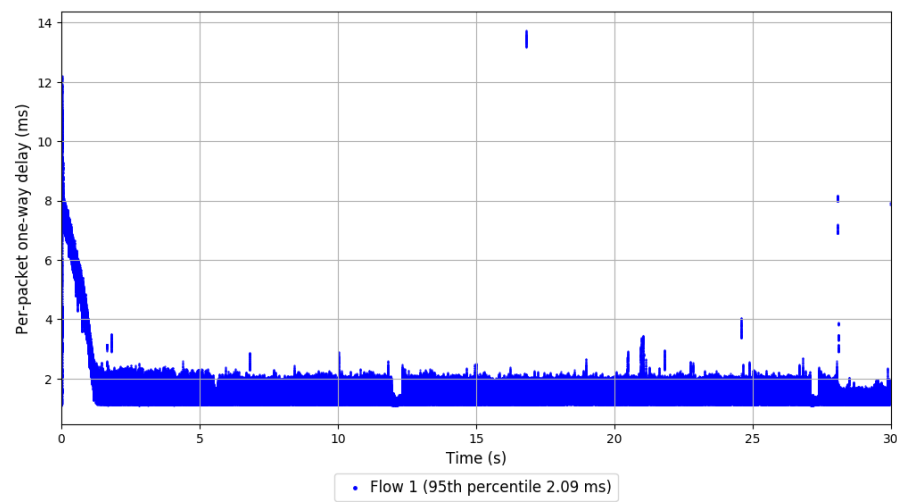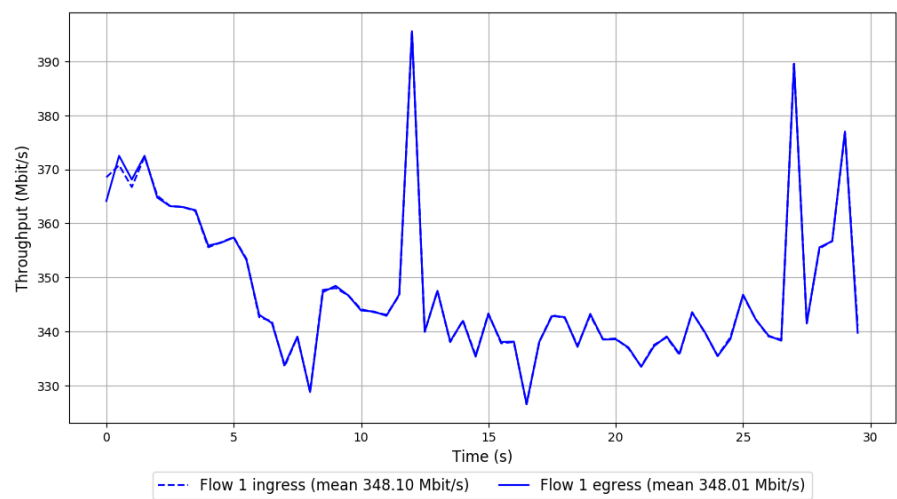
Run 6: Report of TCP Vegas — Data Link

Run 7: Statistics of TCP Vegas

Start at: 2017-08-31 00:41:54
End at: 2017-08-31 00:42:24
Local clock offset: -0.736 ms
Remote clock offset: 1.06 ms

Below is generated by plot.py at 2017-08-31 07:11:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 326.24 Mbit/s
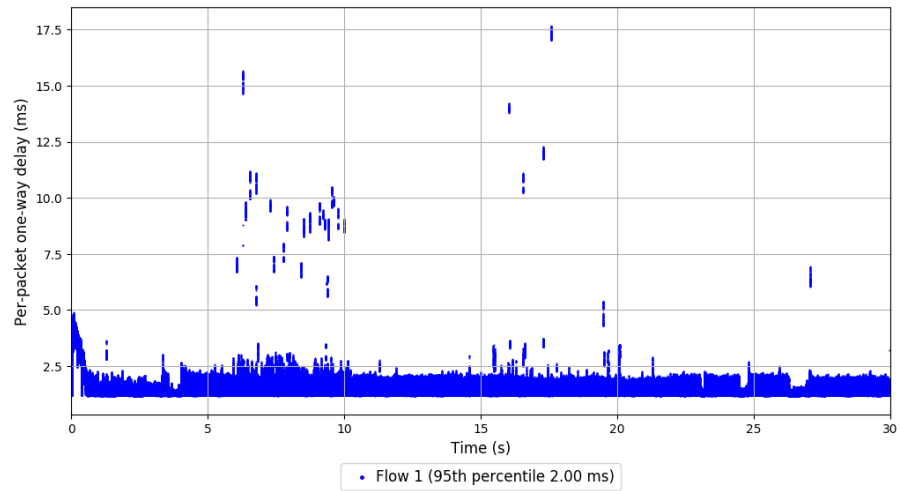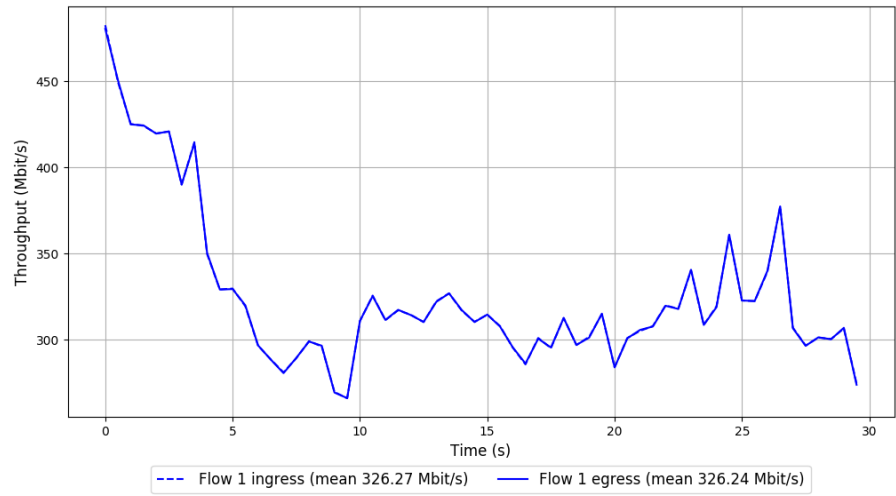95th percentile per-packet one-way delay: 2.005 ms
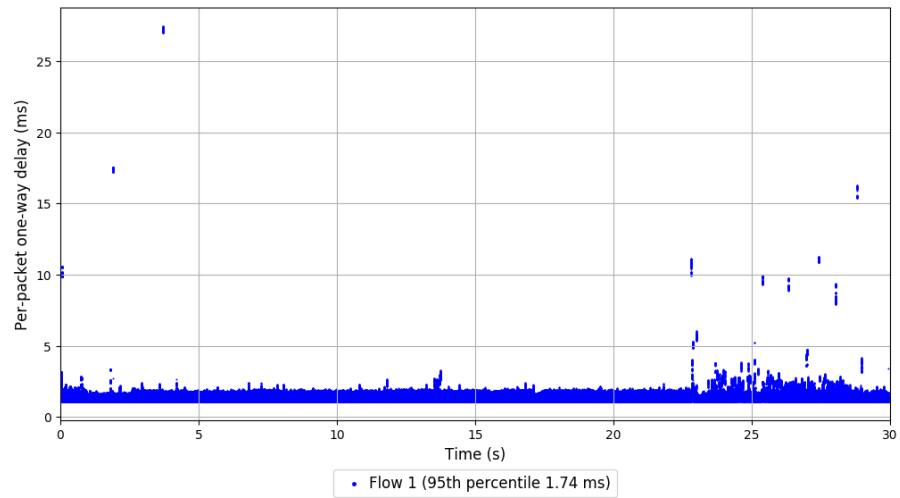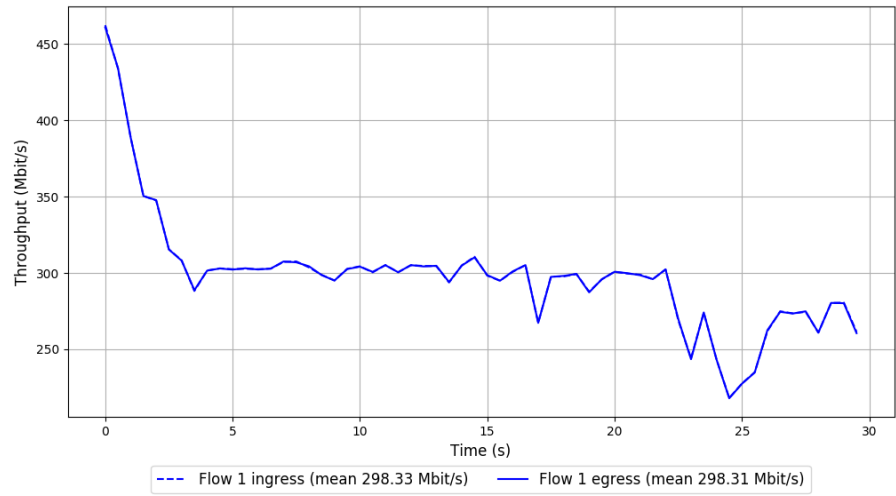Loss rate: 0.01%
-- Flow 1:
Average throughput: 326.24 Mbit/s
95th percentile per-packet one-way delay: 2.005 ms
Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 326.27 Mbit/s) --- Flow 1 egress (mean 326.24 Mbit/s)

• Flow 1 (95th percentile 2.00 ms)

```
Run 8: Statistics of TCP Vegas

Start at: 2017-08-31 01:00:37
End at: 2017-08-31 01:01:07
Local clock offset: -0.923 ms
Remote clock offset: 0.821 ms


# Below is generated by plot.py at 2017-08-31 07:11:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 298.31 Mbit/s
95th percentile per-packet one-way delay: 1.739 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 298.31 Mbit/s
95th percentile per-packet one-way delay: 1.739 ms
Loss rate: 0.01%
```
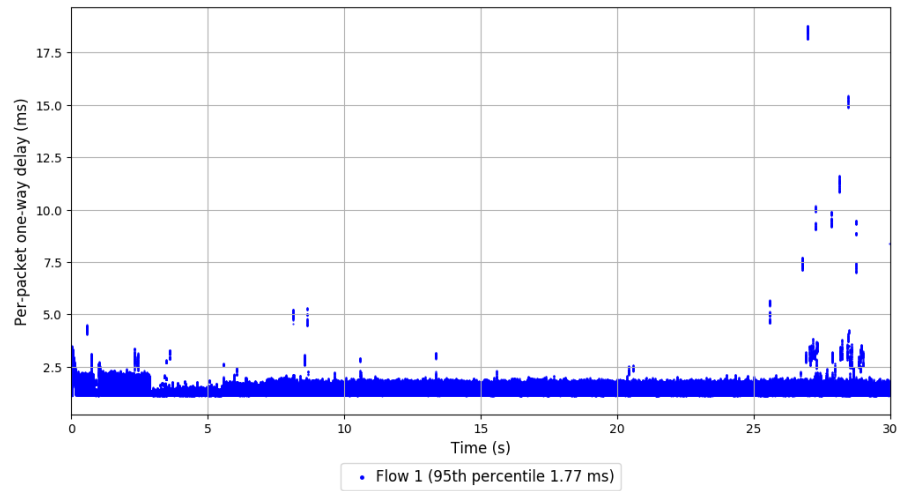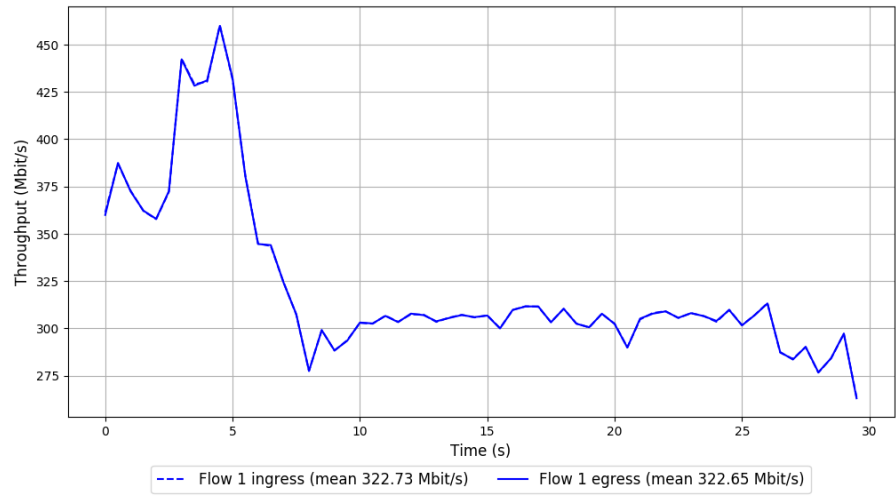
Run 8: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 298.33 Mbit/s) — Flow 1 egress (mean 298.31 Mbit/s)

Flow 1 (95th percentile 1.74 ms)

```
Run 9: Statistics of TCP Vegas

Start at: 2017-08-31 01:19:21
End at: 2017-08-31 01:19:51
Local clock offset: -0.671 ms
Remote clock offset: 0.798 ms


# Below is generated by plot.py at 2017-08-31 07:12:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.65 Mbit/s
95th percentile per-packet one-way delay: 1.770 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 322.65 Mbit/s
95th percentile per-packet one-way delay: 1.770 ms
Loss rate: 0.01%
```
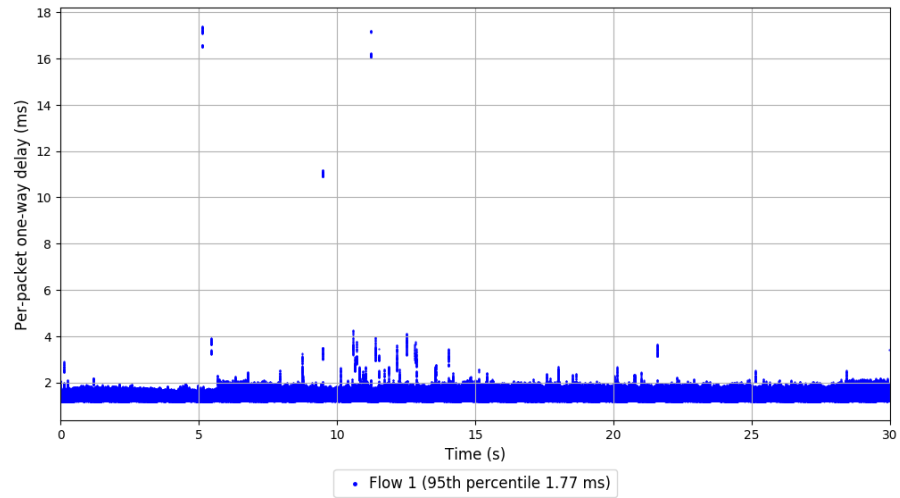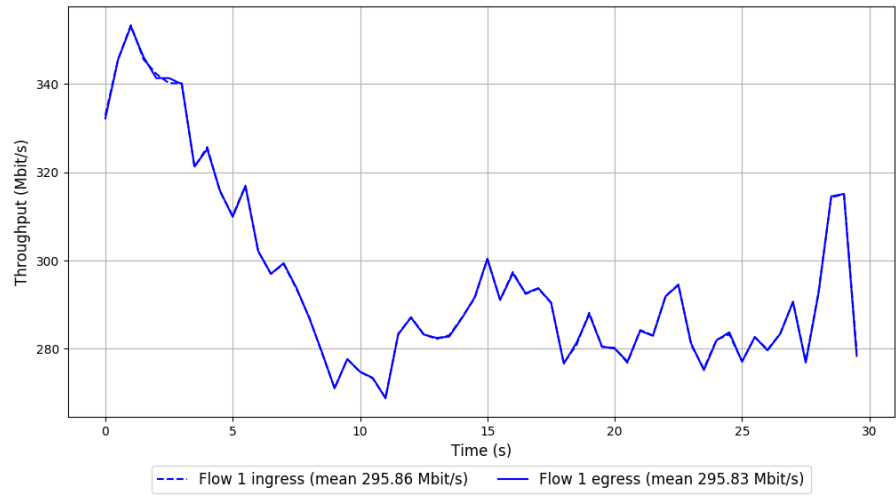
Run 9: Report of TCP Vegas — Data Link

```
Run 10: Statistics of TCP Vegas

Start at: 2017-08-31 01:38:20
End at: 2017-08-31 01:38:50
Local clock offset: -0.76 ms
Remote clock offset: 0.372 ms


# Below is generated by plot.py at 2017-08-31 07:12:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 295.83 Mbit/s
95th percentile per-packet one-way delay: 1.771 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 295.83 Mbit/s
95th percentile per-packet one-way delay: 1.771 ms
Loss rate: 0.01%
```
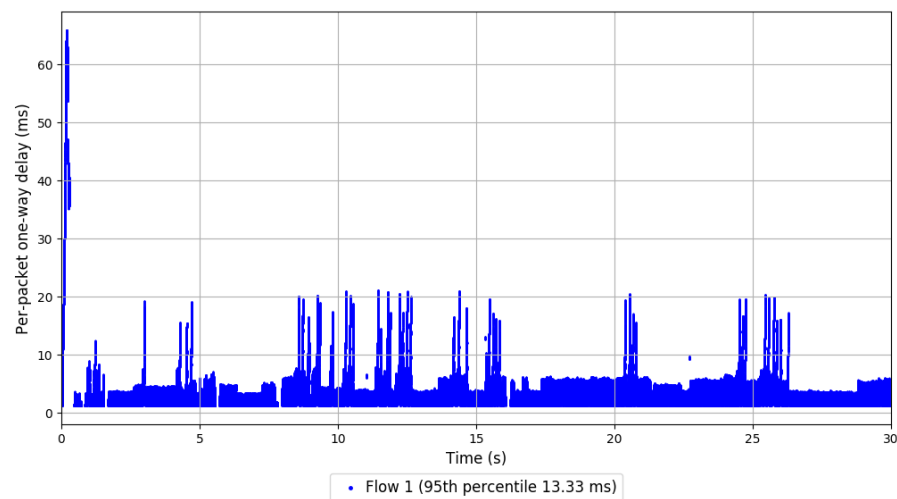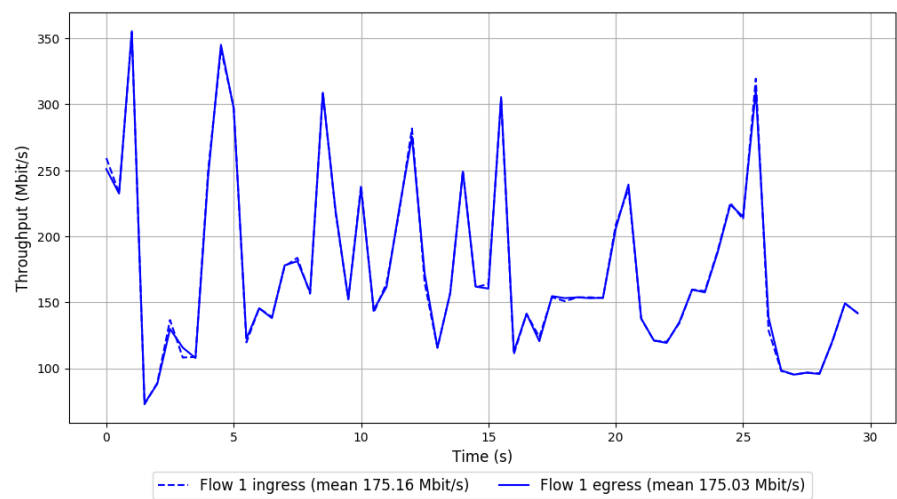
Run 10: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 295.86 Mbit/s)   Flow 1 egress (mean 295.83 Mbit/s)

Flow 1 (95th percentile 1.77 ms)

```
Run 1: Statistics of Verus

Start at: 2017-08-30 22:50:29
End at: 2017-08-30 22:50:59
Local clock offset: -0.556 ms
Remote clock offset: 0.119 ms


# Below is generated by plot.py at 2017-08-31 07:12:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.03 Mbit/s
95th percentile per-packet one-way delay: 13.328 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 175.03 Mbit/s
95th percentile per-packet one-way delay: 13.328 ms
Loss rate: 0.07%
```

Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2017-08-30 23:09:28
End at: 2017-08-30 23:09:58
Local clock offset: -0.692 ms
Remote clock offset: 0.382 ms


# Below is generated by plot.py at 2017-08-31 07:12:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.29 Mbit/s
95th percentile per-packet one-way delay: 7.992 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 152.29 Mbit/s
95th percentile per-packet one-way delay: 7.992 ms
Loss rate: 0.01%
```
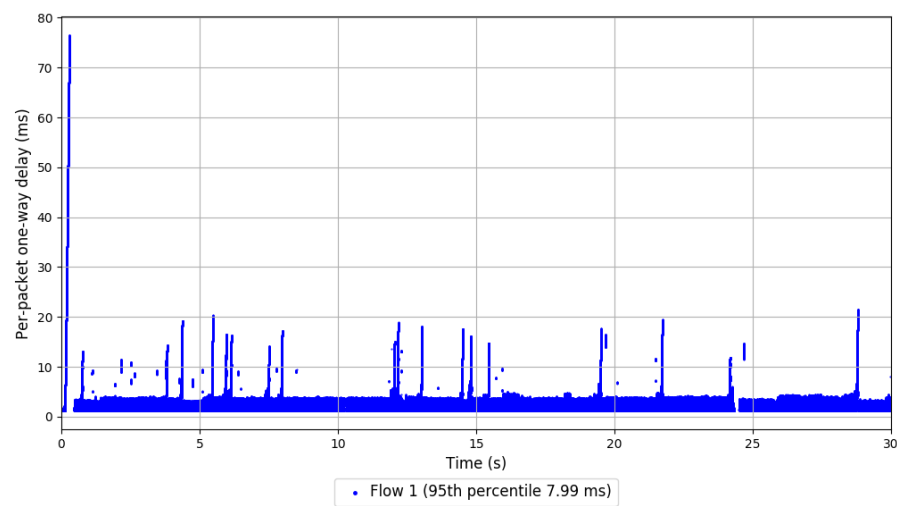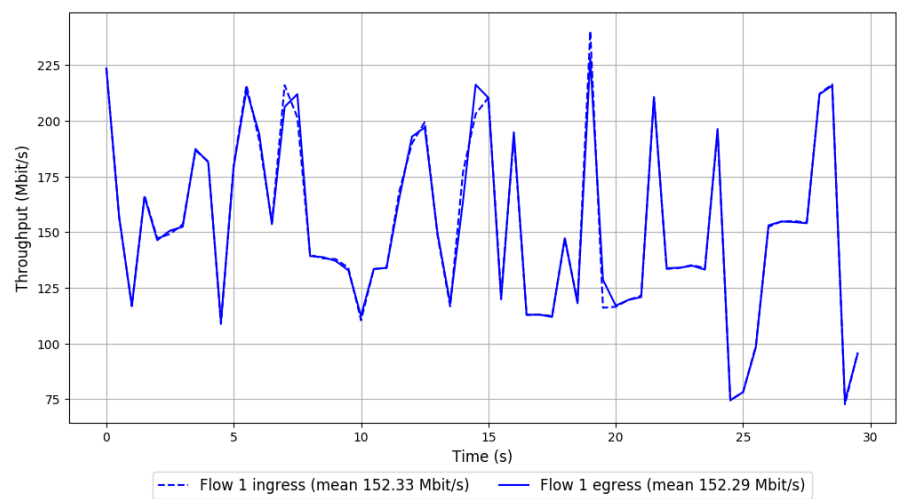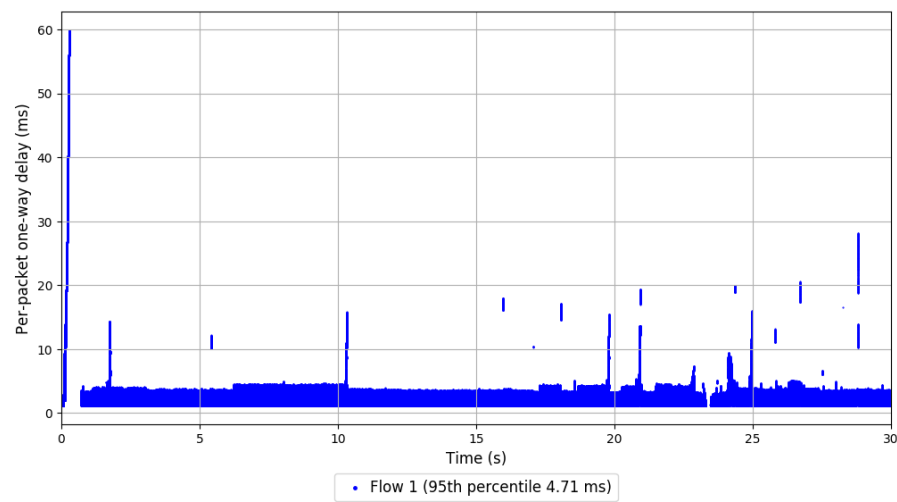
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2017-08-30 23:28:21
End at: 2017-08-30 23:28:51
Local clock offset: -0.466 ms
Remote clock offset: 0.738 ms


# Below is generated by plot.py at 2017-08-31 07:12:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 112.24 Mbit/s
95th percentile per-packet one-way delay: 4.712 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 112.24 Mbit/s
95th percentile per-packet one-way delay: 4.712 ms
Loss rate: 0.02%
```
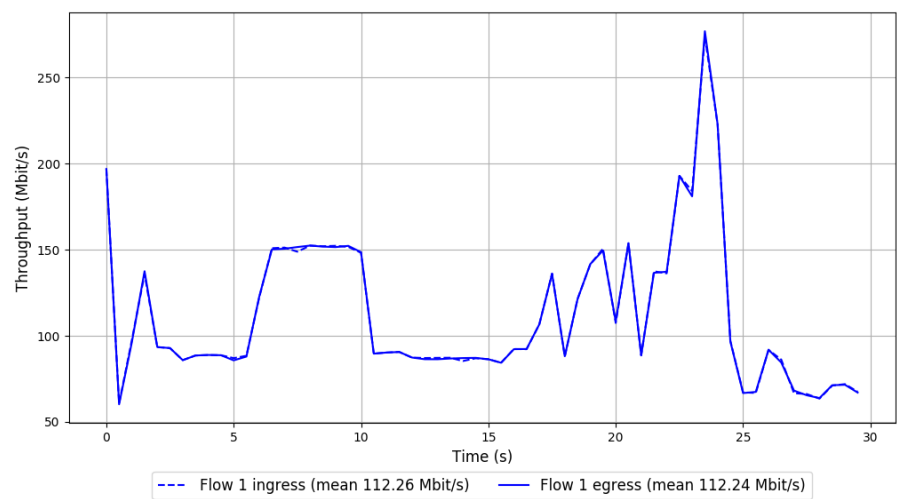
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2017-08-30 23:47:09
End at: 2017-08-30 23:47:39
Local clock offset: -0.516 ms
Remote clock offset: 0.932 ms


# Below is generated by plot.py at 2017-08-31 07:12:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 143.54 Mbit/s
95th percentile per-packet one-way delay: 4.938 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 143.54 Mbit/s
95th percentile per-packet one-way delay: 4.938 ms
Loss rate: 0.03%
```
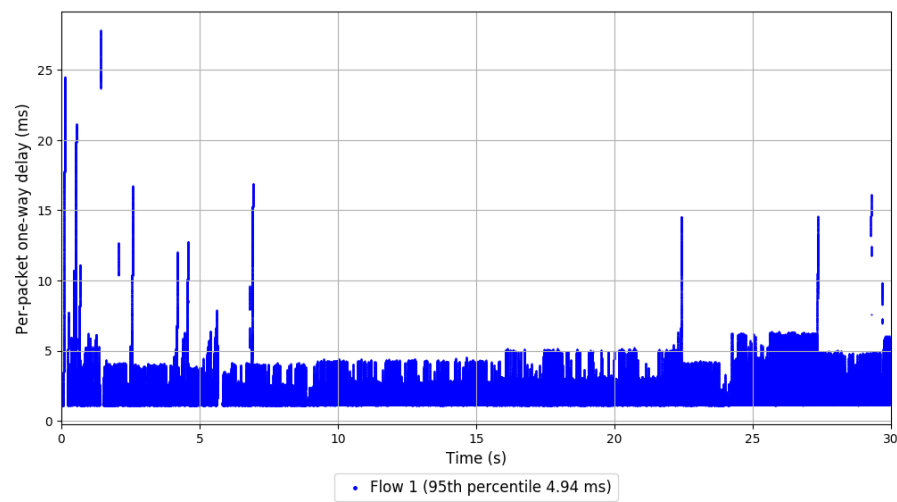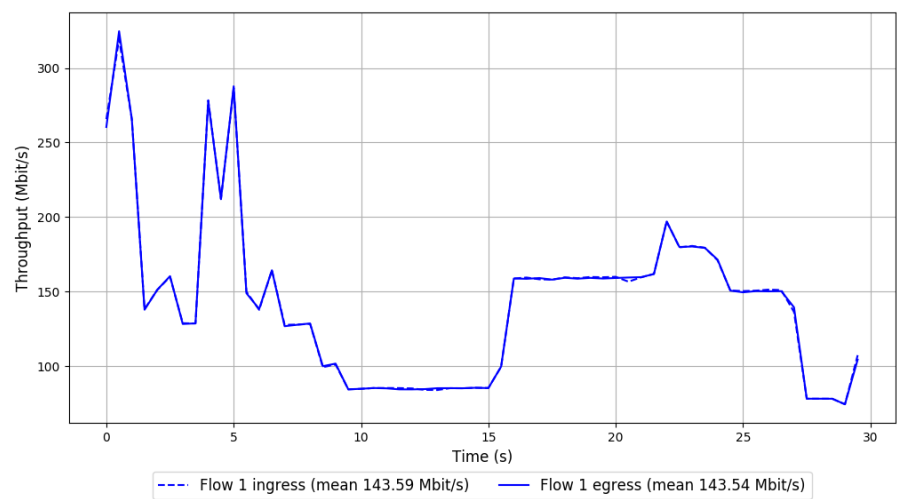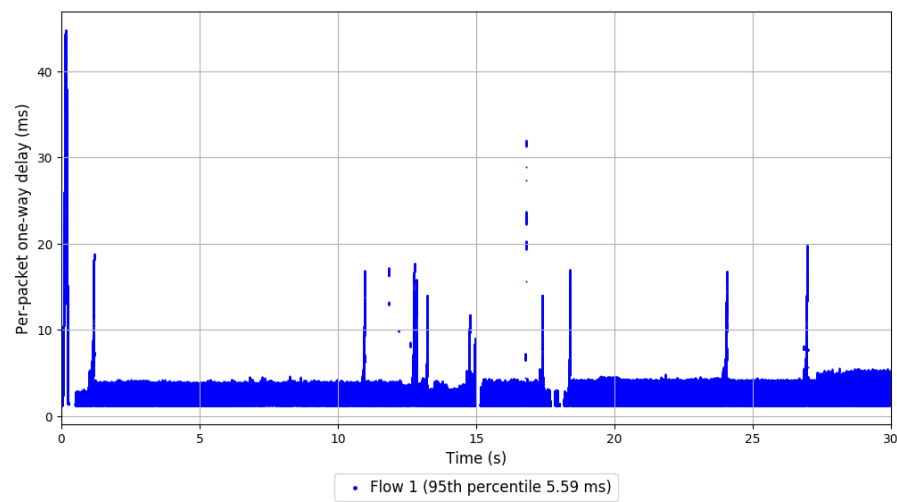
Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 143.59 Mbit/s)   Flow 1 egress (mean 143.54 Mbit/s)

Flow 1 (95th percentile 4.94 ms)

```
Run 5: Statistics of Verus

Start at: 2017-08-31 00:05:53
End at: 2017-08-31 00:06:23
Local clock offset: -0.489 ms
Remote clock offset: 1.001 ms


# Below is generated by plot.py at 2017-08-31 07:12:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 116.42 Mbit/s
95th percentile per-packet one-way delay: 5.595 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 116.42 Mbit/s
95th percentile per-packet one-way delay: 5.595 ms
Loss rate: 0.03%
```
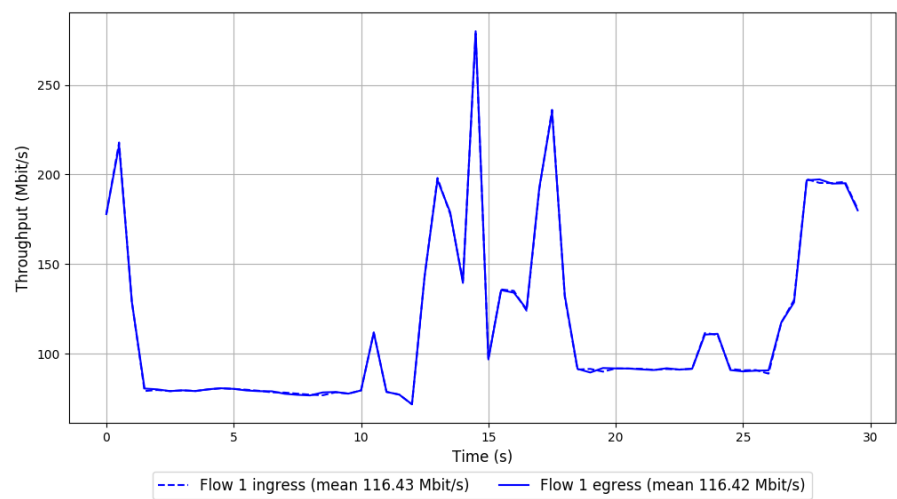
Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: 2017-08-31 00:24:38
End at: 2017-08-31 00:25:08
Local clock offset: -0.654 ms
Remote clock offset: 1.028 ms


# Below is generated by plot.py at 2017-08-31 07:13:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 109.24 Mbit/s
95th percentile per-packet one-way delay: 5.022 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 109.24 Mbit/s
95th percentile per-packet one-way delay: 5.022 ms
Loss rate: 0.02%
```
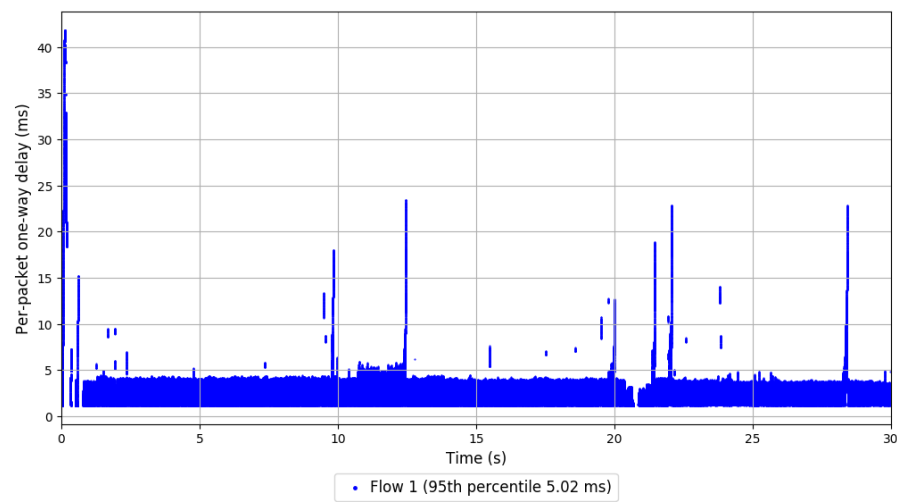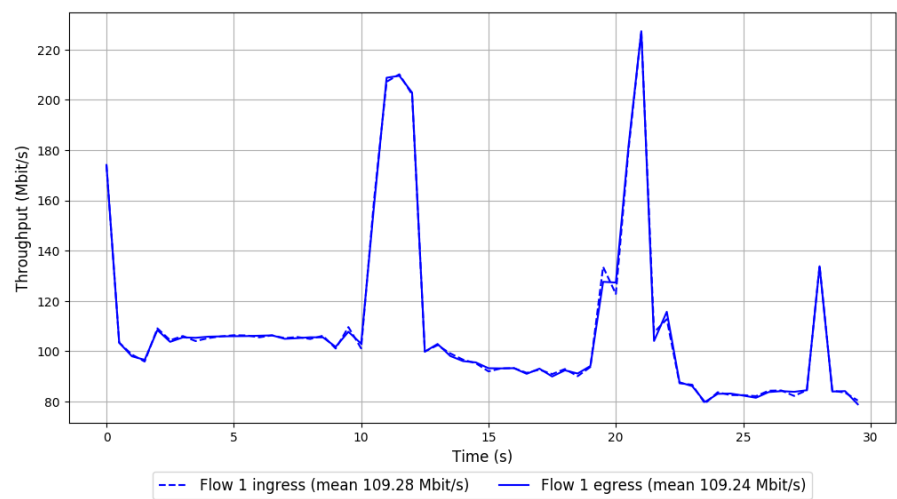
Run 6: Report of Verus — Data Link

```
Run 7: Statistics of Verus

Start at: 2017-08-31 00:43:13
End at: 2017-08-31 00:43:43
Local clock offset: -0.829 ms
Remote clock offset: 1.05 ms


# Below is generated by plot.py at 2017-08-31 07:13:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 132.80 Mbit/s
95th percentile per-packet one-way delay: 7.766 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 132.80 Mbit/s
95th percentile per-packet one-way delay: 7.766 ms
Loss rate: 0.03%
```
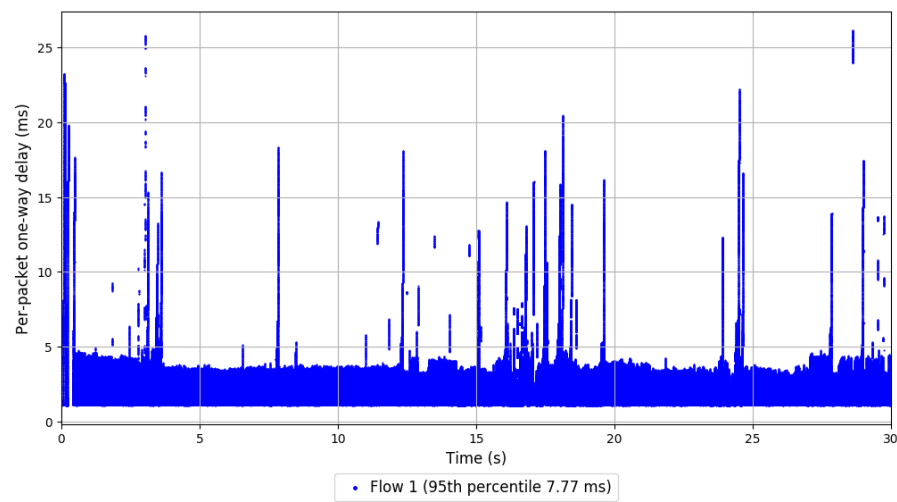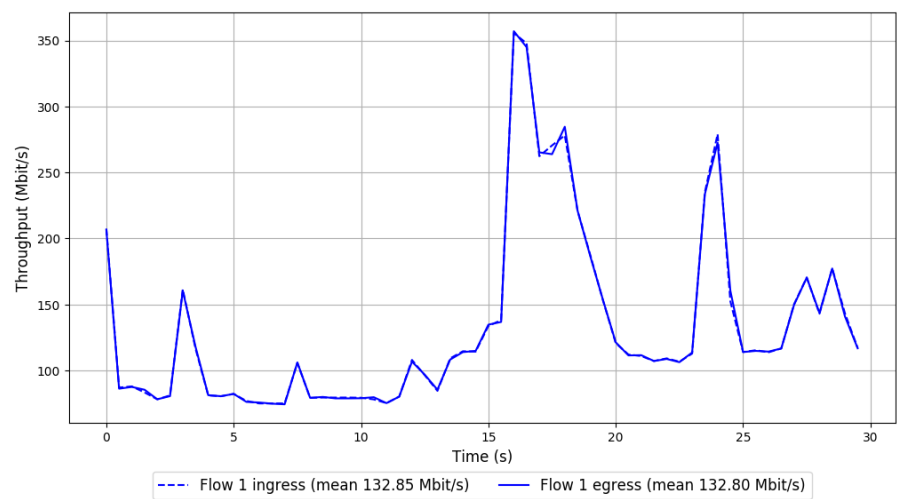
Run 7: Report of Verus — Data Link

```
Run 8: Statistics of Verus

Start at: 2017-08-31 01:01:54
End at: 2017-08-31 01:02:24
Local clock offset: -0.868 ms
Remote clock offset: 0.812 ms


# Below is generated by plot.py at 2017-08-31 07:13:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 112.16 Mbit/s
95th percentile per-packet one-way delay: 10.290 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 112.16 Mbit/s
95th percentile per-packet one-way delay: 10.290 ms
Loss rate: 0.00%
```
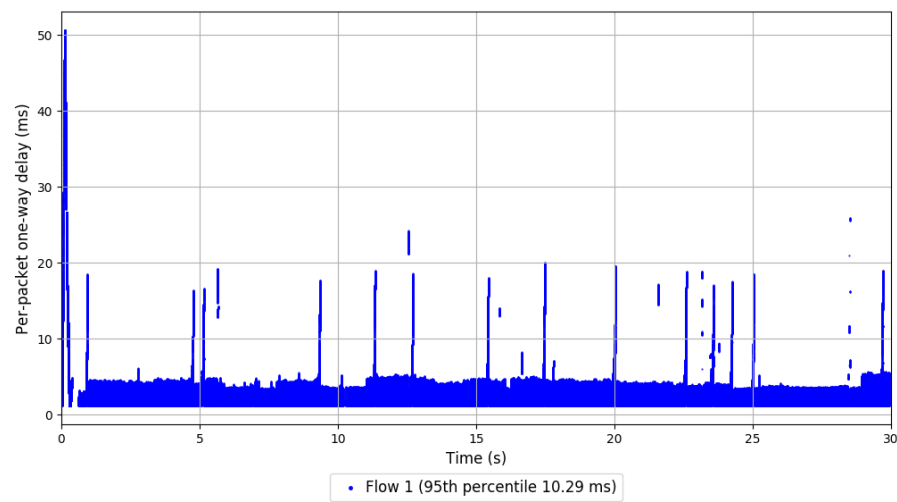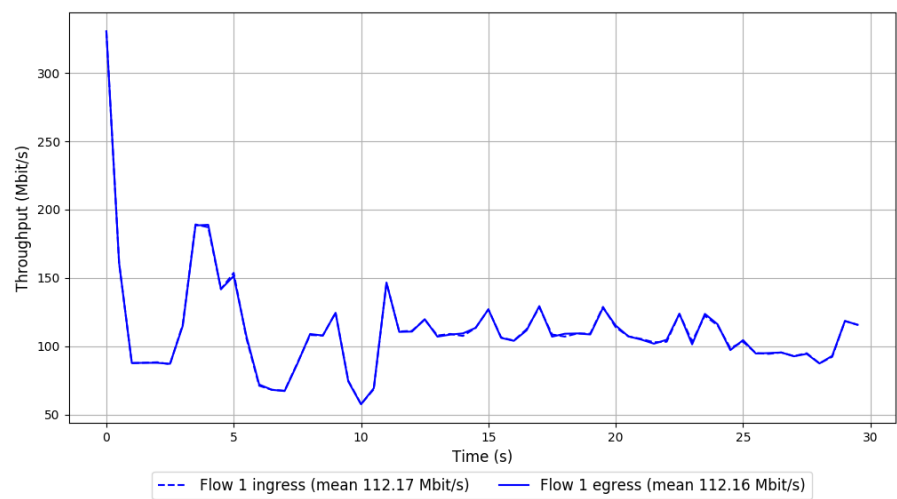
Run 8: Report of Verus — Data Link

```
Run 9: Statistics of Verus

Start at: 2017-08-31 01:20:39
End at: 2017-08-31 01:21:09
Local clock offset: -0.64 ms
Remote clock offset: 0.7 ms


# Below is generated by plot.py at 2017-08-31 07:13:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.01 Mbit/s
95th percentile per-packet one-way delay: 5.778 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 147.01 Mbit/s
95th percentile per-packet one-way delay: 5.778 ms
Loss rate: 0.00%
```
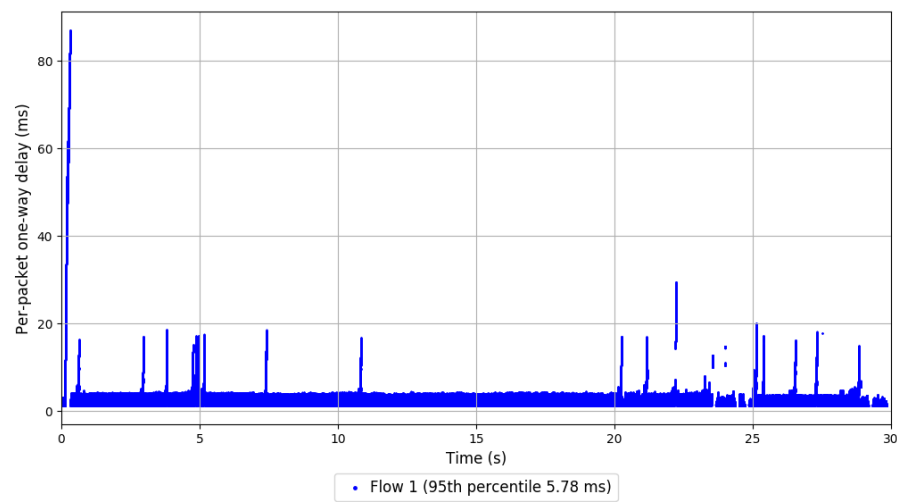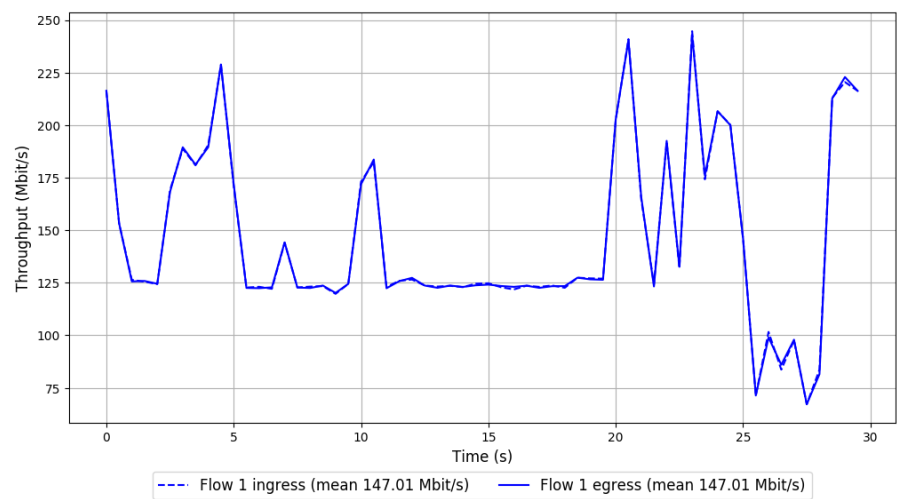
Run 9: Report of Verus — Data Link

```
Run 10: Statistics of Verus

Start at: 2017-08-31 01:39:37
End at: 2017-08-31 01:40:07
Local clock offset: -0.702 ms
Remote clock offset: 0.44 ms


# Below is generated by plot.py at 2017-08-31 07:13:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 128.54 Mbit/s
95th percentile per-packet one-way delay: 13.277 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 128.54 Mbit/s
95th percentile per-packet one-way delay: 13.277 ms
Loss rate: 0.00%
```
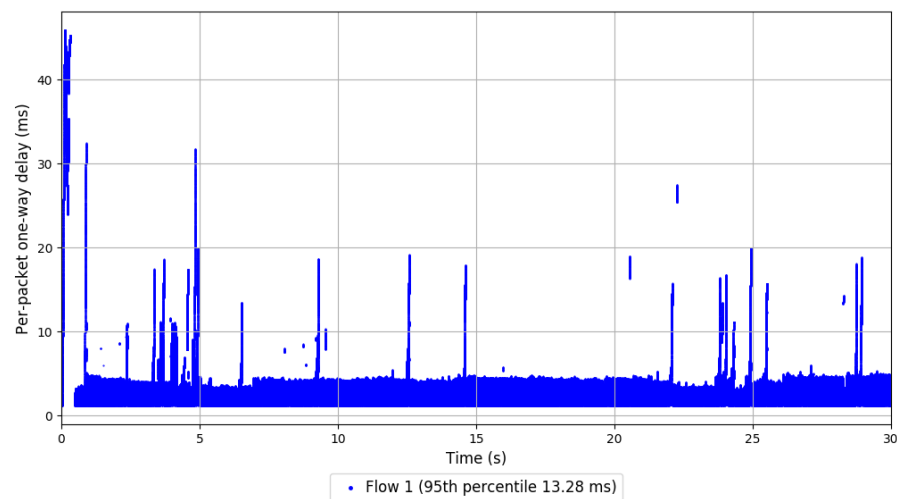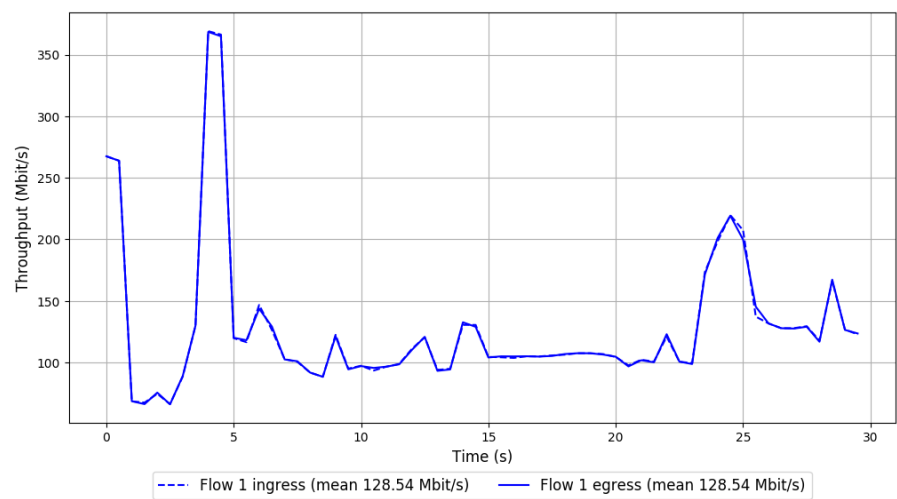
Run 10: Report of Verus — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2017-08-30 22:48:08
End at: 2017-08-30 22:48:38
Local clock offset: -0.482 ms
Remote clock offset: 0.076 ms


# Below is generated by plot.py at 2017-08-31 07:13:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.630 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.630 ms
Loss rate: 0.00%
```
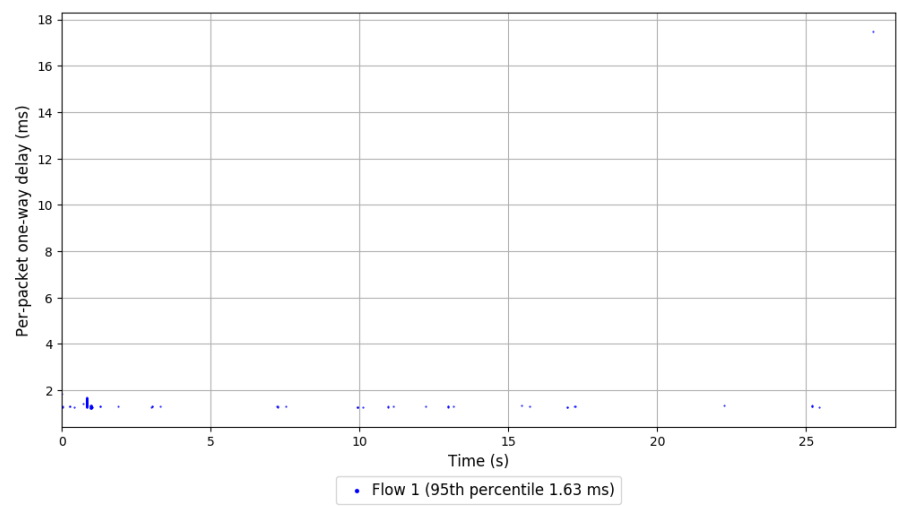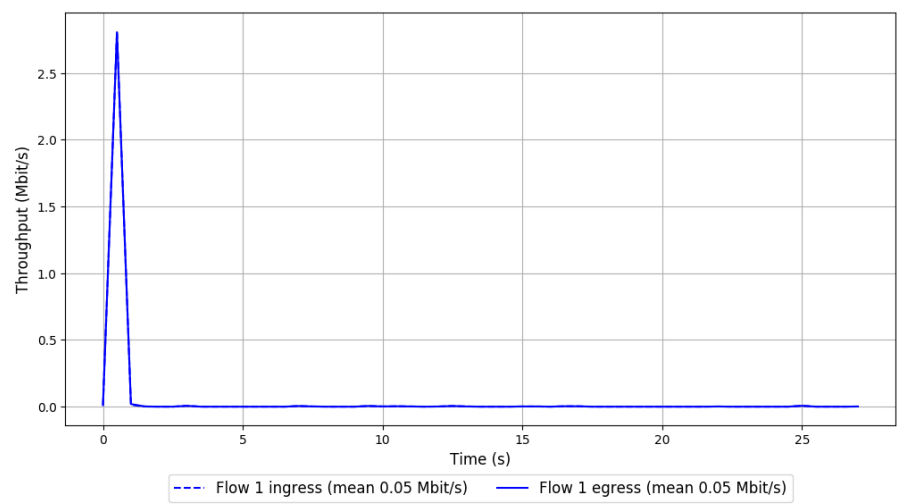
Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2017-08-30 23:07:07
End at: 2017-08-30 23:07:37
Local clock offset: -0.691 ms
Remote clock offset: 0.3 ms

# Below is generated by plot.py at 2017-08-31 07:13:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 1.504 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 1.504 ms
Loss rate: 0.06%
```
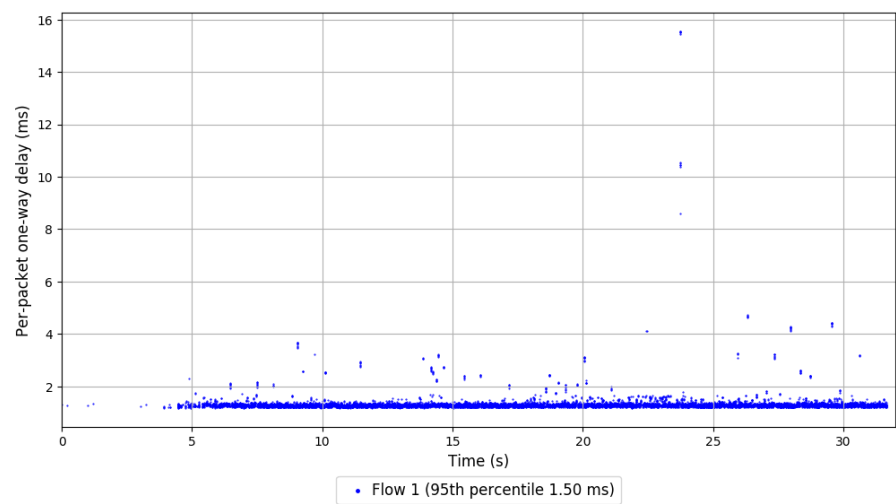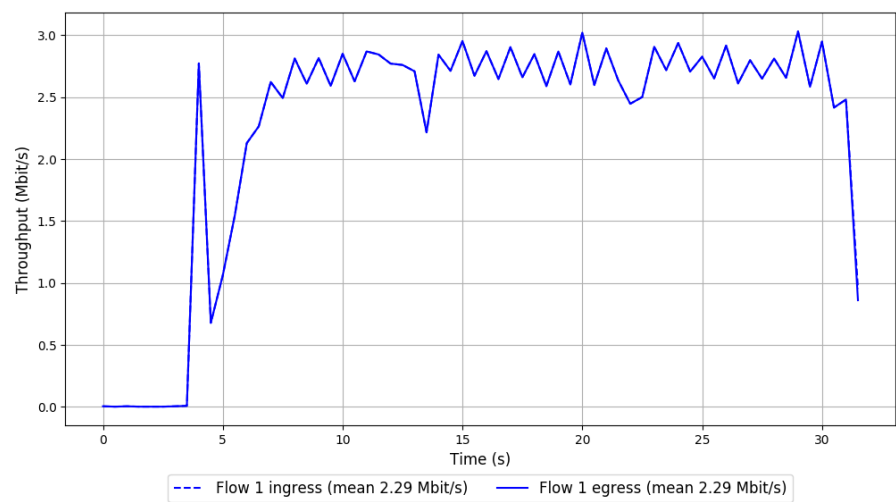
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2017-08-30 23:25:59
End at: 2017-08-30 23:26:29
Local clock offset: -0.637 ms
Remote clock offset: 0.623 ms


# Below is generated by plot.py at 2017-08-31 07:13:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 1.440 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 1.440 ms
Loss rate: 0.00%
```
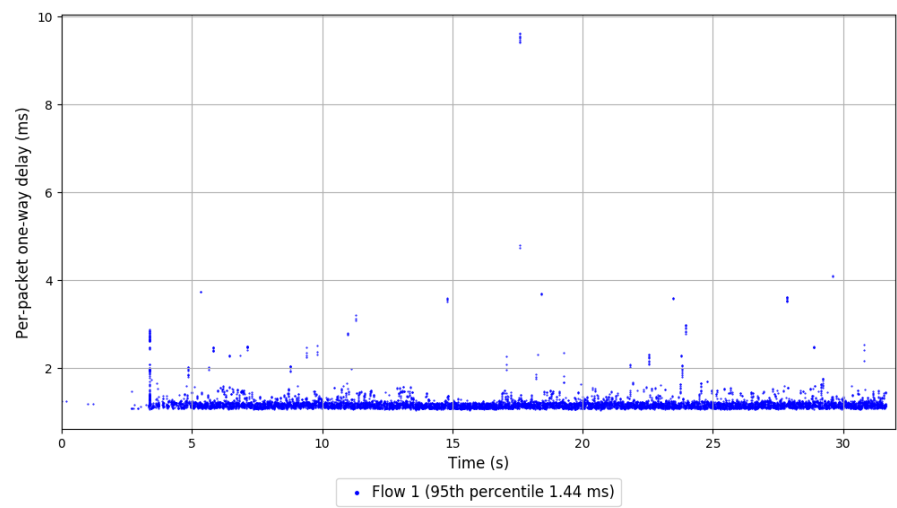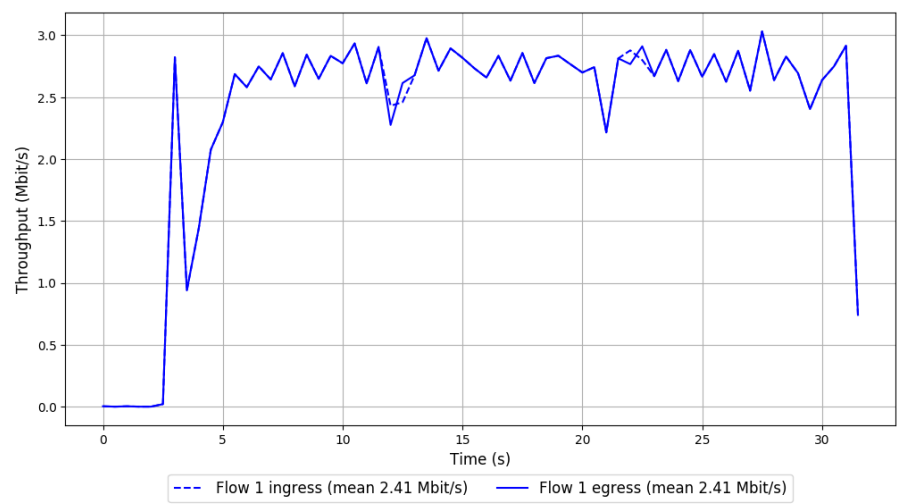
Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2017-08-30 23:44:47
End at: 2017-08-30 23:45:17
Local clock offset: -0.422 ms
Remote clock offset: 0.833 ms


# Below is generated by plot.py at 2017-08-31 07:13:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 1.555 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 1.555 ms
Loss rate: 0.00%
```
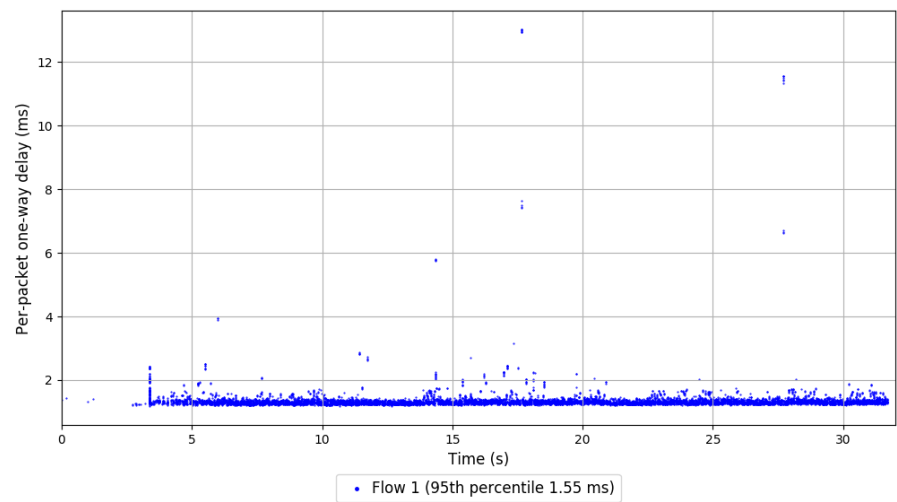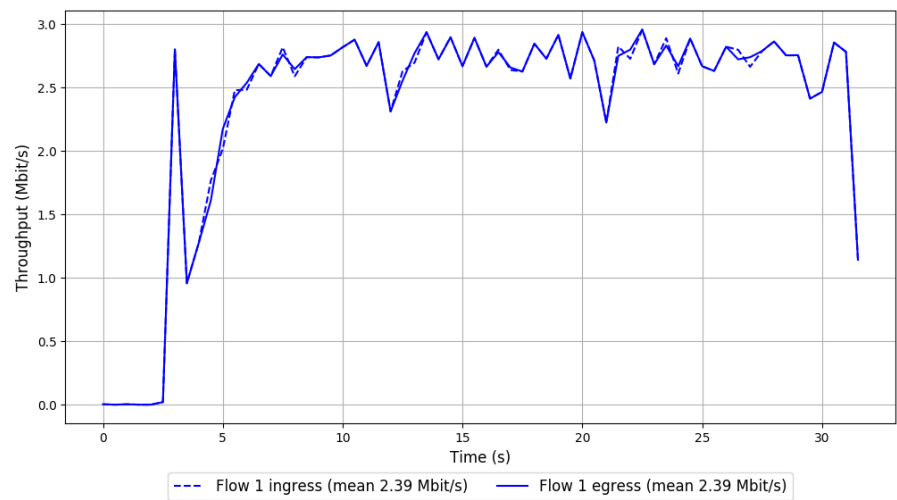
Run 4: Report of WebRTC media — Data Link

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

Flow 1 (95th percentile 1.55 ms)

```
Run 5: Statistics of WebRTC media

Start at: 2017-08-31 00:03:31
End at: 2017-08-31 00:04:01
Local clock offset: -0.538 ms
Remote clock offset: 0.98 ms


# Below is generated by plot.py at 2017-08-31 07:13:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 1.448 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 1.448 ms
Loss rate: 0.00%
```
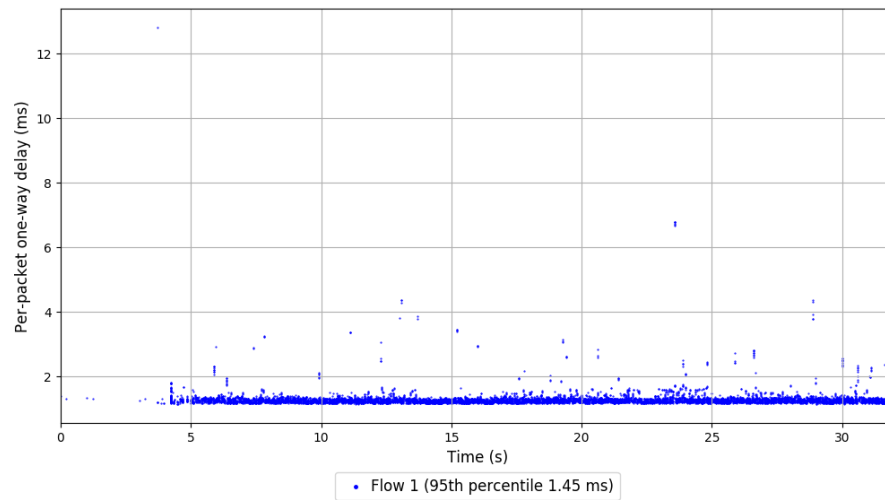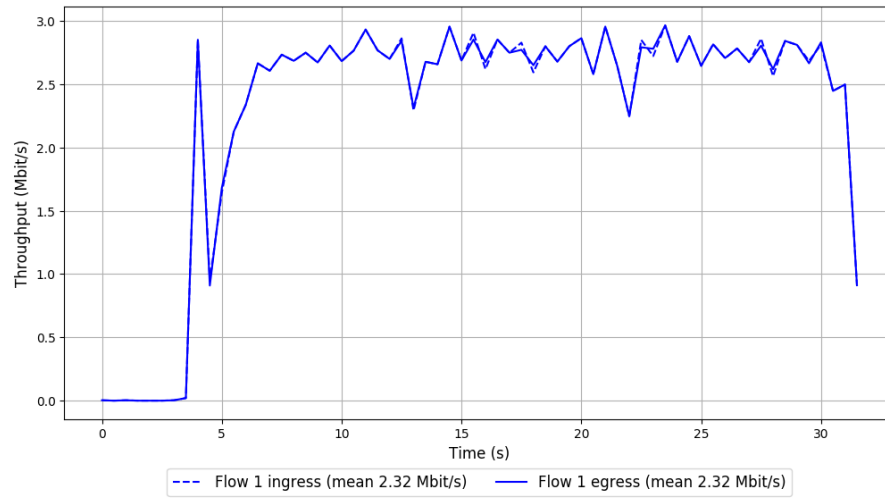
Run 5: Report of WebRTC media — Data Link

```
Run 6: Statistics of WebRTC media

Start at: 2017-08-31 00:22:14
End at: 2017-08-31 00:22:44
Local clock offset: -0.638 ms
Remote clock offset: 1.009 ms


# Below is generated by plot.py at 2017-08-31 07:13:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 1.476 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 1.476 ms
Loss rate: 0.00%
```
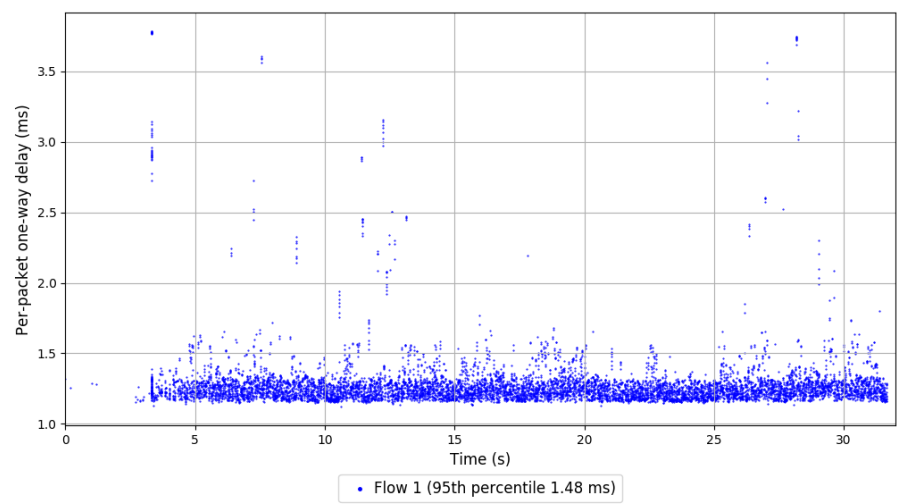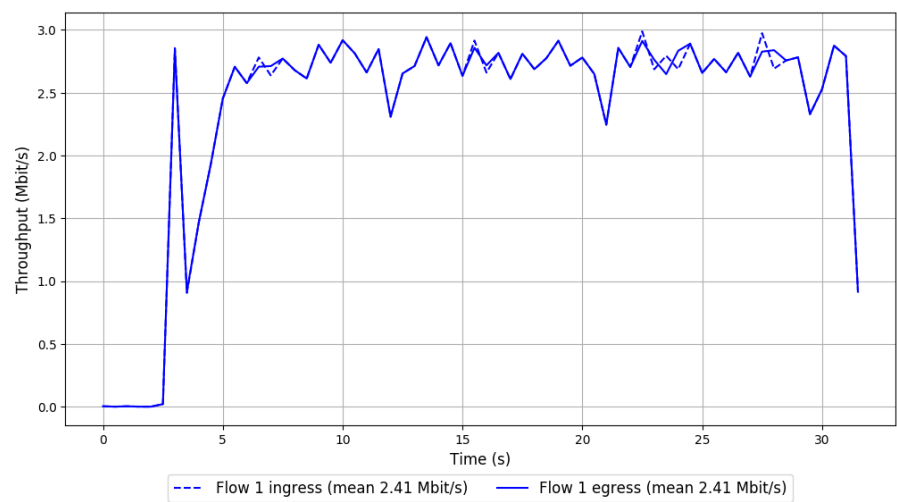
Run 6: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.41 Mbit/s)   Flow 1 egress (mean 2.41 Mbit/s)

Flow 1 (95th percentile 1.48 ms)

```
Run 7: Statistics of WebRTC media

Start at: 2017-08-31 00:40:50
End at: 2017-08-31 00:41:20
Local clock offset: -0.83 ms
Remote clock offset: 1.054 ms


# Below is generated by plot.py at 2017-08-31 07:13:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 1.468 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 1.468 ms
Loss rate: 0.00%
```
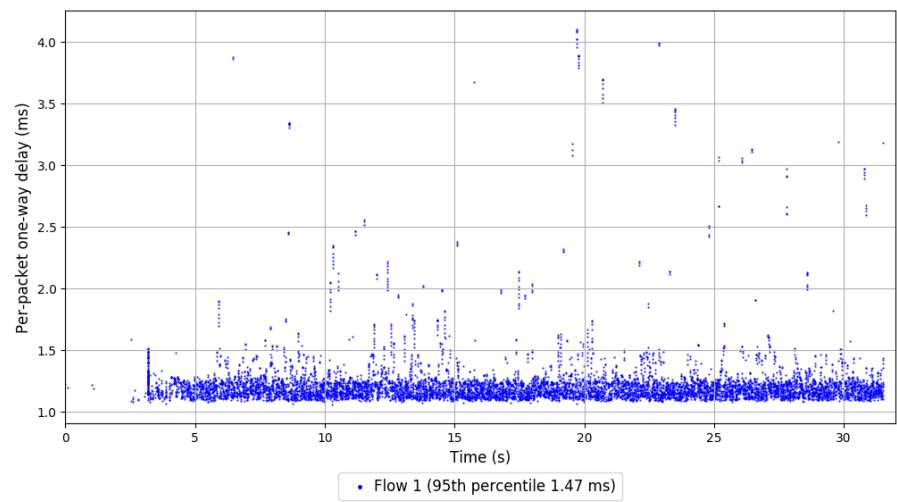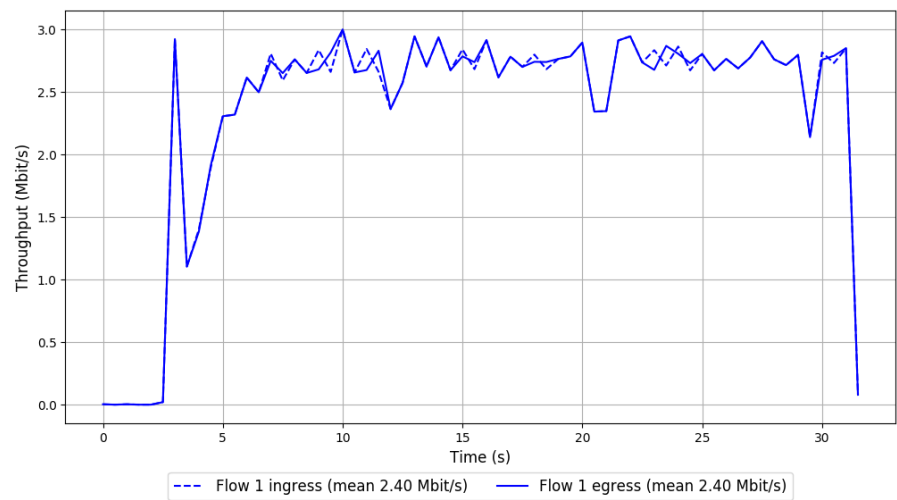
Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: 2017-08-31 00:59:33
End at: 2017-08-31 01:00:03
Local clock offset: -0.839 ms
Remote clock offset: 0.824 ms


# Below is generated by plot.py at 2017-08-31 07:13:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 1.516 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 1.516 ms
Loss rate: 0.00%
```
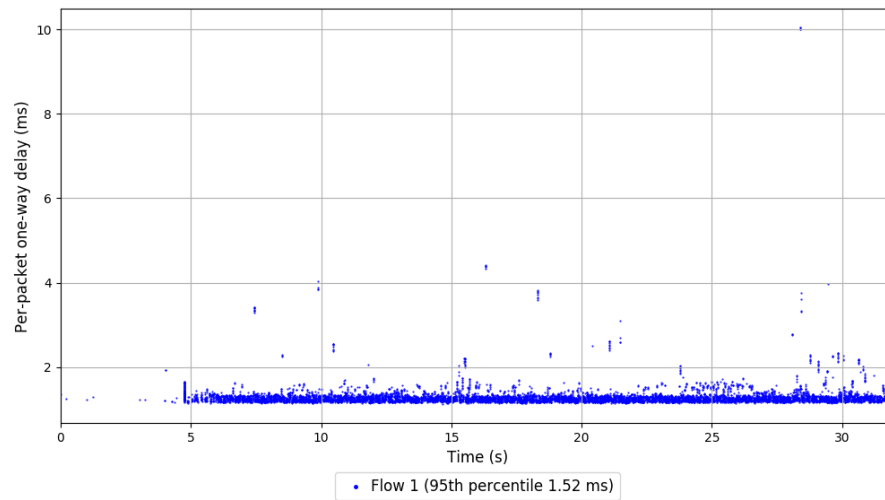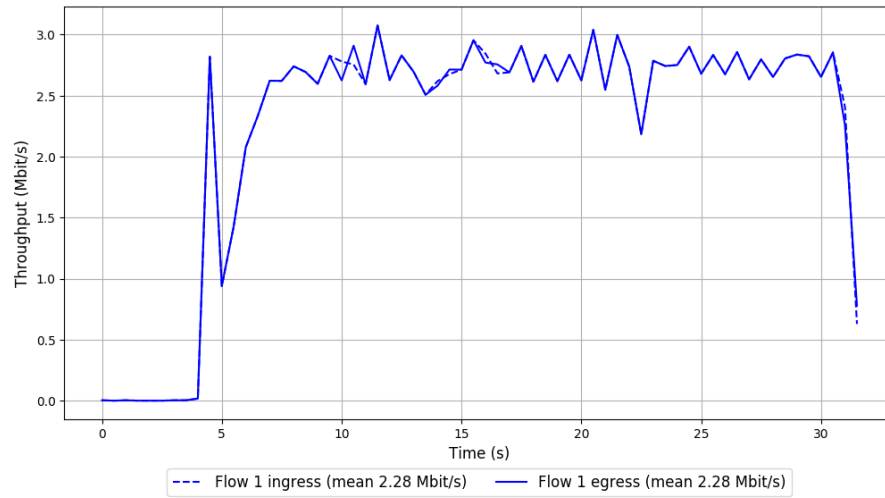
Run 8: Report of WebRTC media — Data Link

```
Run 9: Statistics of WebRTC media

Start at: 2017-08-31 01:18:17
End at: 2017-08-31 01:18:47
Local clock offset: -0.665 ms
Remote clock offset: 0.819 ms


# Below is generated by plot.py at 2017-08-31 07:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 1.468 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 1.468 ms
Loss rate: 0.00%
```
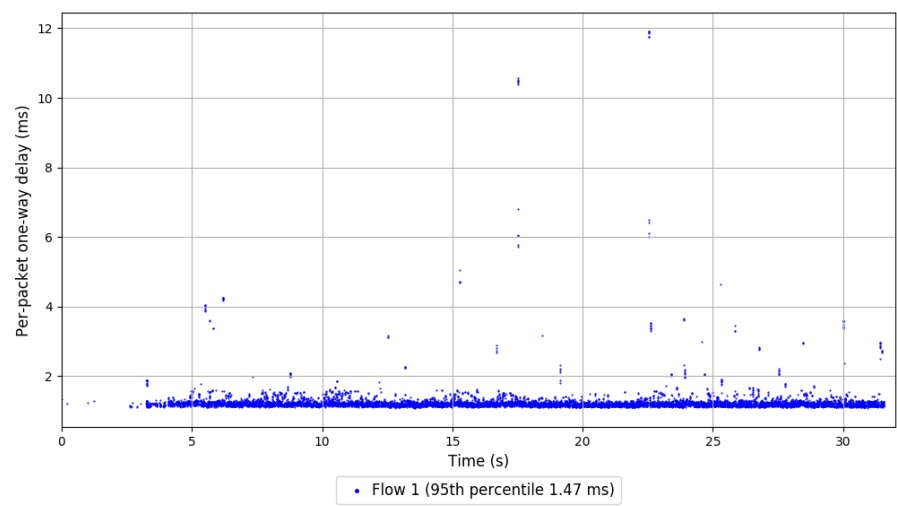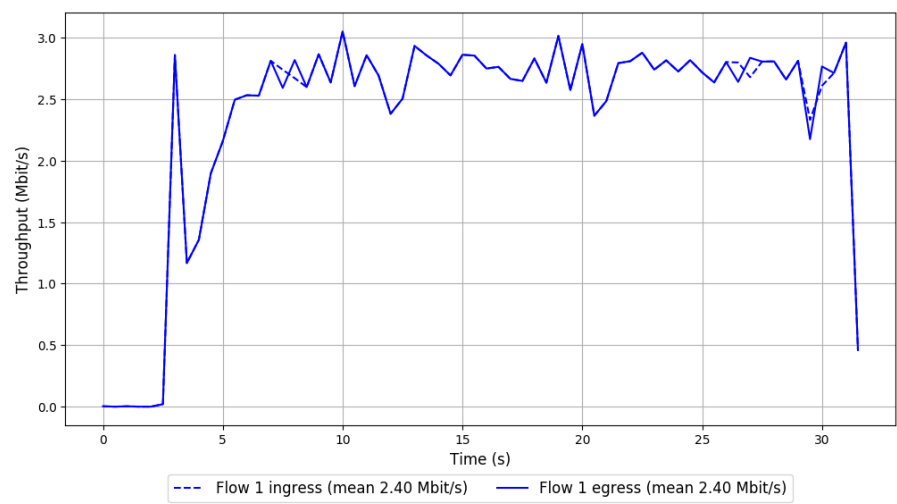
Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: 2017-08-31 01:37:16
End at: 2017-08-31 01:37:46
Local clock offset: -0.697 ms
Remote clock offset: 0.46 ms


# Below is generated by plot.py at 2017-08-31 07:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 1.457 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 1.457 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link