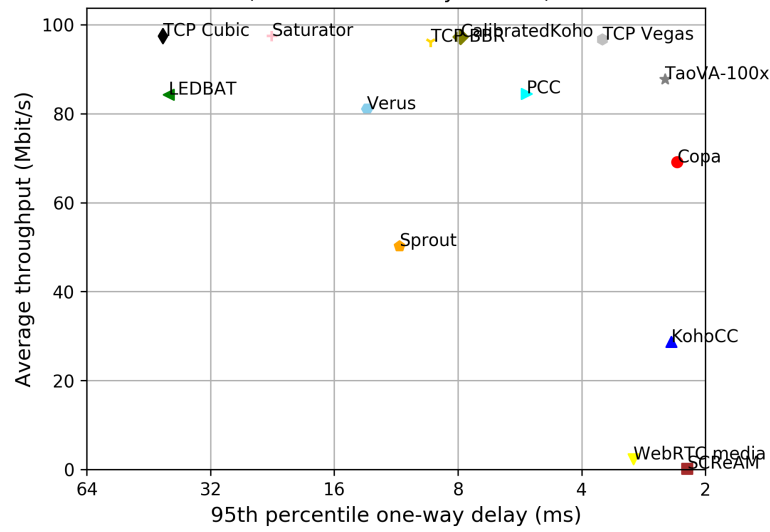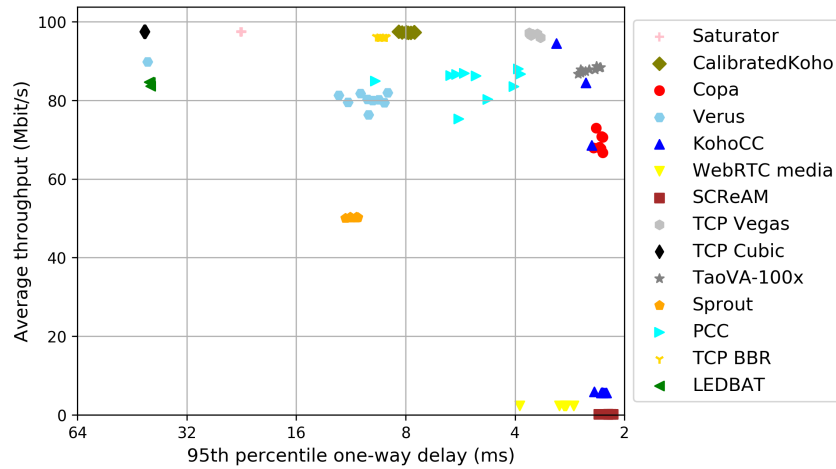**Pantheon Summary** (Generated at Mon, 17 Jul 2017 01:29:56 +0000 with pantheon version `d7b3554d9e52d3442ab19bc1e1c71f4629d4a0ac`)

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

NTP offset measured against gps.ntp.br and has been applied to correct the timestamps in logs.

```
git branch: master @ d7b3554d9e52d3442ab19bc1e1c71f4629d4a0ac
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
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
```

1

test from AWS Brazil 1 Ethernet to Brazil Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)

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

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	96.16	9.33	0.00
CalibratedKoho	10	97.30	7.88	0.00
Copa	10	69.09	2.34	0.00
TCP Cubic	10	97.48	41.77	0.75
KohoCC	10	28.72	2.42	0.00
LEDBAT	10	84.29	40.45	0.63
PCC	10	84.49	5.45	0.00
QUIC Cubic	10	nan	nan	nan
Saturator	10	97.47	22.70	0.02
SCReAM	10	0.22	2.22	0.00
Sprout	10	50.24	11.11	0.00
TaoVA-100x	10	87.74	2.51	0.01
TCP Vegas	10	96.67	3.56	0.00
Verus	10	81.06	13.32	1.18
WebRTC media	10	2.36	2.99	0.00

Run 1: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 19:22:33 +0000
End at: Sun, 16 Jul 2017 19:23:03 +0000
Local clock offset: -1.479 ms
Remote clock offset: -0.758 ms

Below is generated by plot.py at Mon, 17 Jul 2017 01:17:59 +0000
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.19 Mbit/s
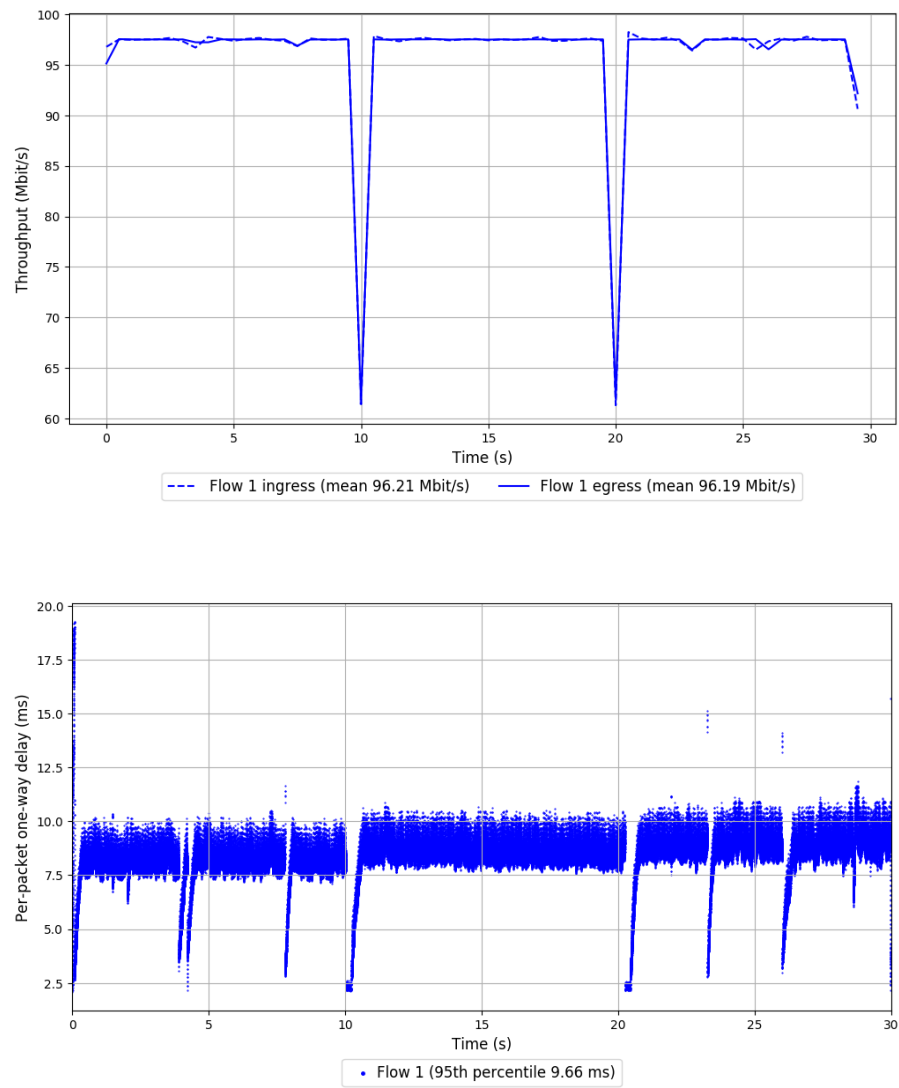95th percentile per-packet one-way delay: 9.665 ms
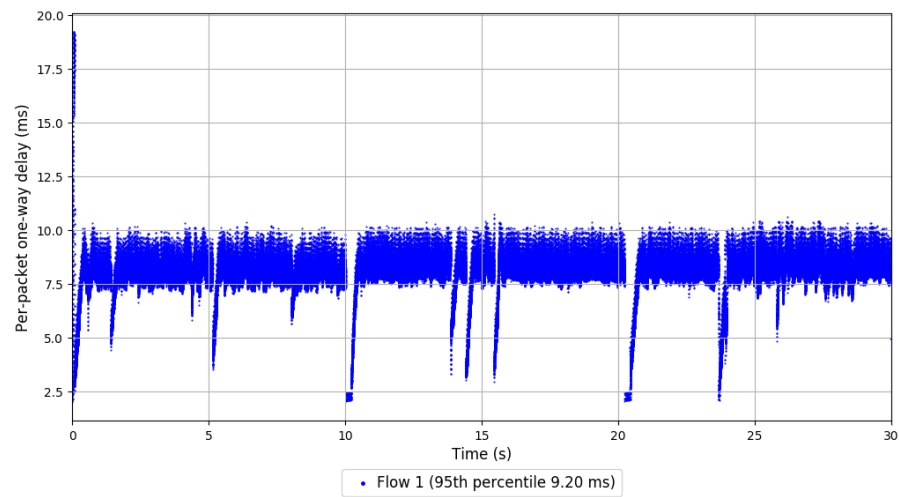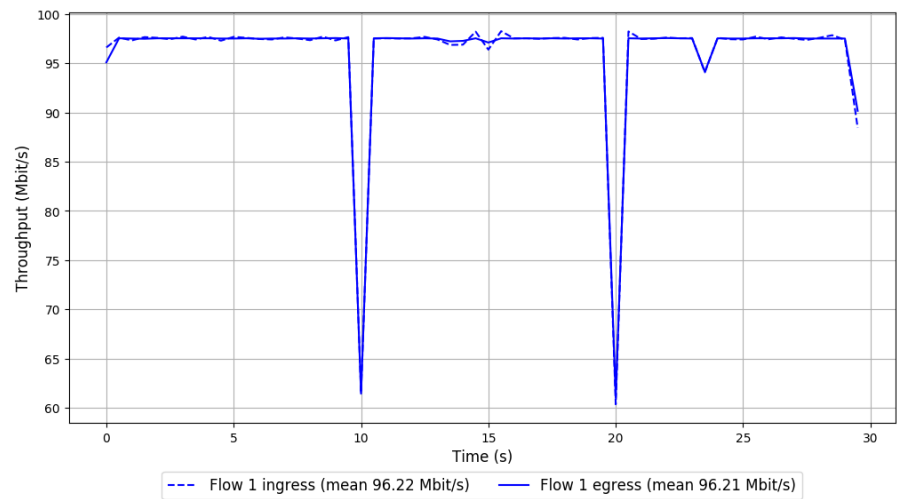Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.19 Mbit/s
95th percentile per-packet one-way delay: 9.665 ms
Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 19:39:36 +0000
End at: Sun, 16 Jul 2017 19:40:06 +0000
Local clock offset: -1.639 ms
Remote clock offset: -0.635 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:17:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 9.200 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 9.200 ms
Loss rate: 0.00%
```
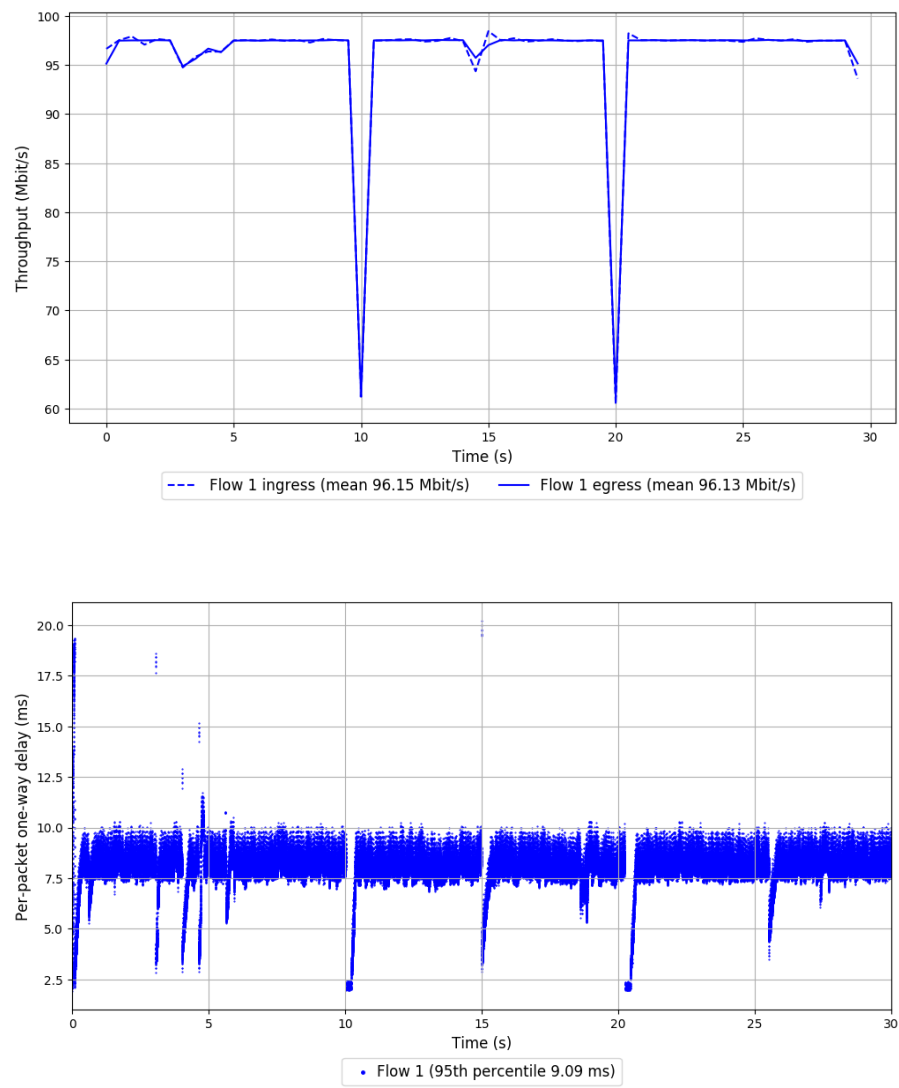
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 19:56:29 +0000
End at: Sun, 16 Jul 2017 19:56:59 +0000
Local clock offset: -1.791 ms
Remote clock offset: -0.219 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:18:10 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 9.087 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 9.087 ms
Loss rate: 0.00%
```
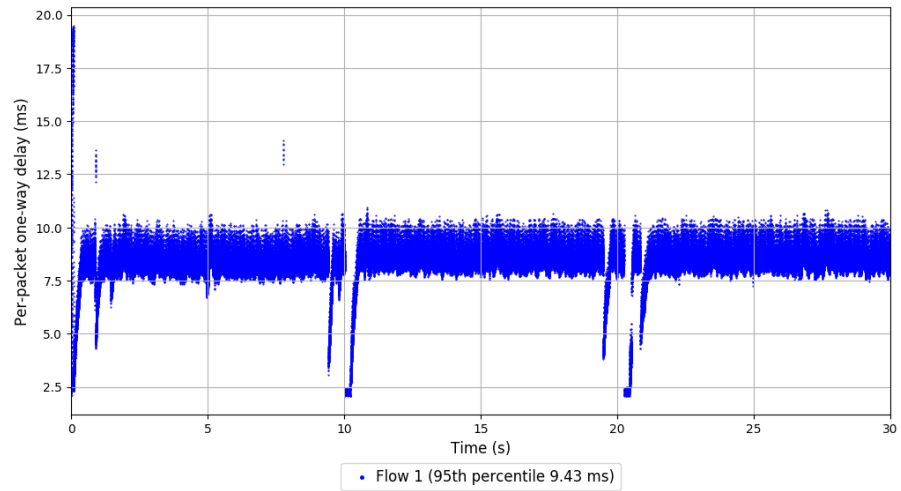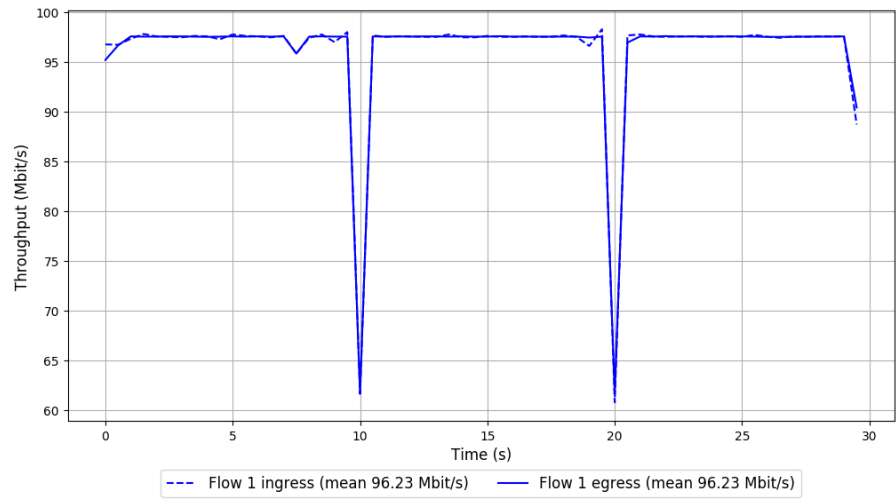
Run 3: Report of TCP BBR — Data Link

```
Run 4: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 20:13:21 +0000
End at: Sun, 16 Jul 2017 20:13:51 +0000
Local clock offset: -2.108 ms
Remote clock offset: 0.695 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:18:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 9.425 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 9.425 ms
Loss rate: 0.00%
```
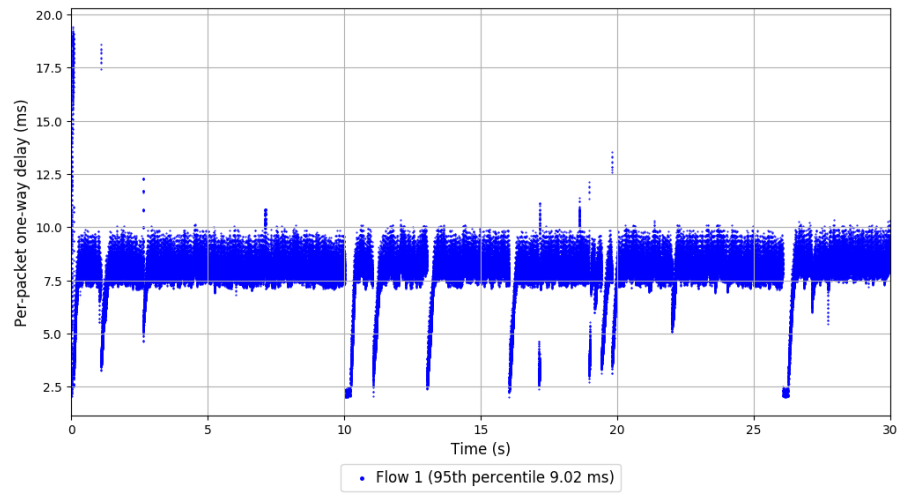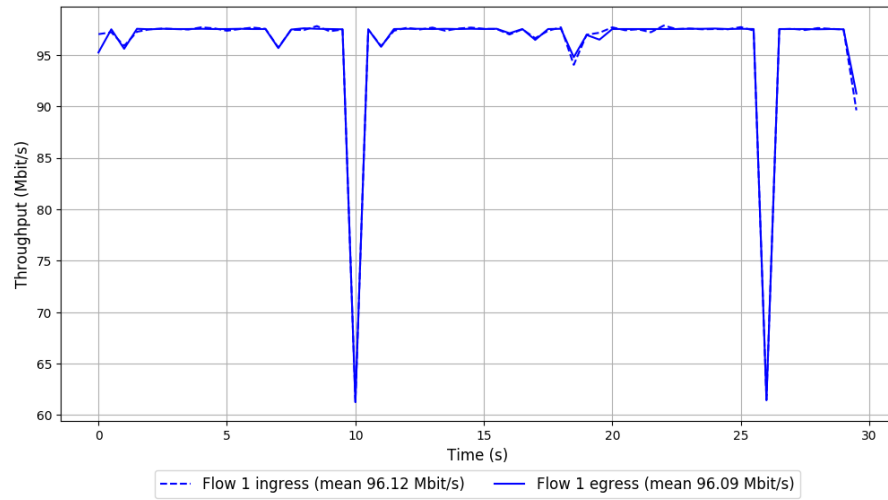
Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 20:30:13 +0000
End at: Sun, 16 Jul 2017 20:30:43 +0000
Local clock offset: -2.368 ms
Remote clock offset: 1.083 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:18:20 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 9.022 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 9.022 ms
Loss rate: 0.00%
```
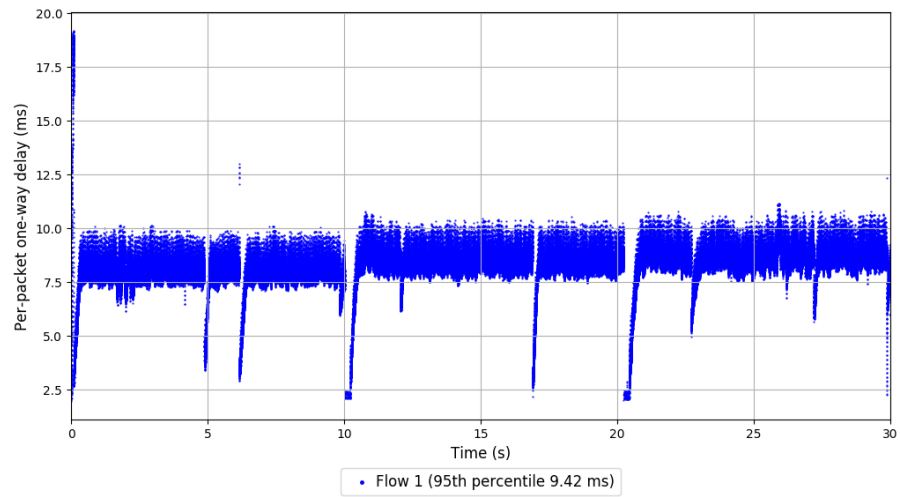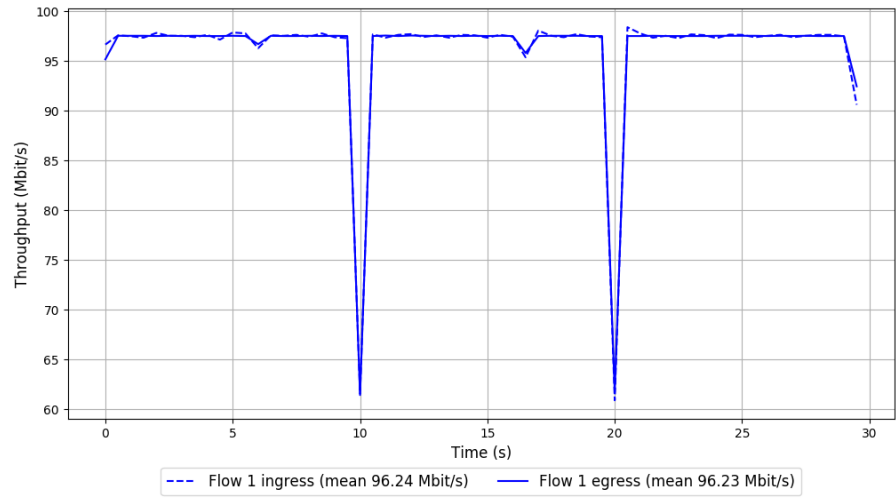
Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.12 Mbit/s) ---- Flow 1 egress (mean 96.09 Mbit/s)

Flow 1 (95th percentile 9.02 ms)

```
Run 6: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 20:47:11 +0000
End at: Sun, 16 Jul 2017 20:47:41 +0000
Local clock offset: -2.636 ms
Remote clock offset: 1.413 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:18:24 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 9.424 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 9.424 ms
Loss rate: 0.00%
```
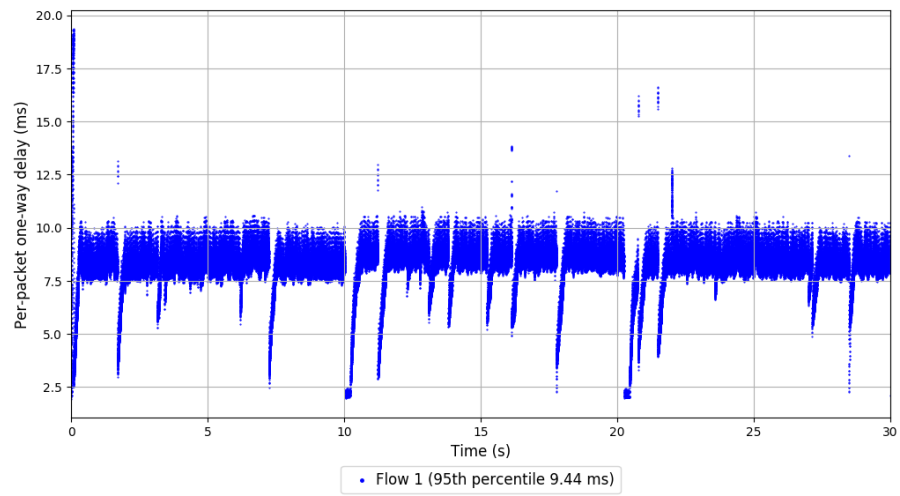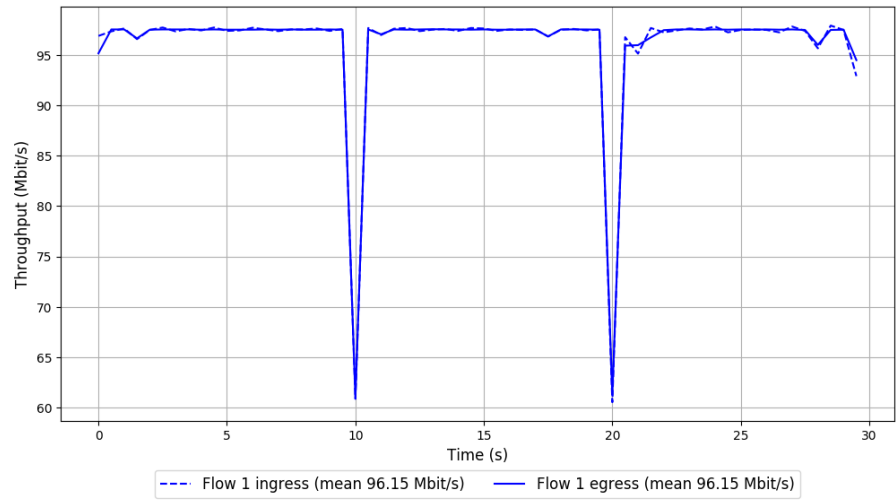
Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.24 Mbit/s)   Flow 1 egress (mean 96.23 Mbit/s)

Flow 1 (95th percentile 9.42 ms)

```
Run 7: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 21:03:56 +0000
End at: Sun, 16 Jul 2017 21:04:26 +0000
Local clock offset: -2.892 ms
Remote clock offset: 2.111 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:18:36 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 9.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 9.435 ms
Loss rate: 0.00%
```
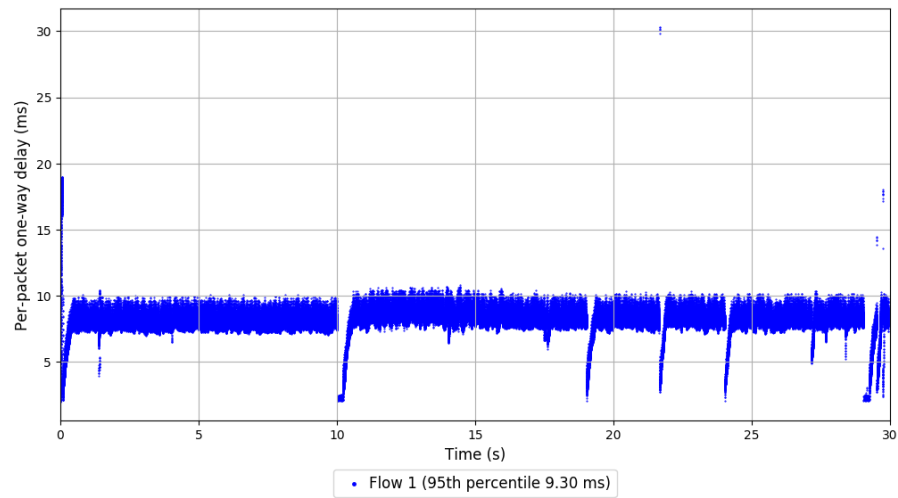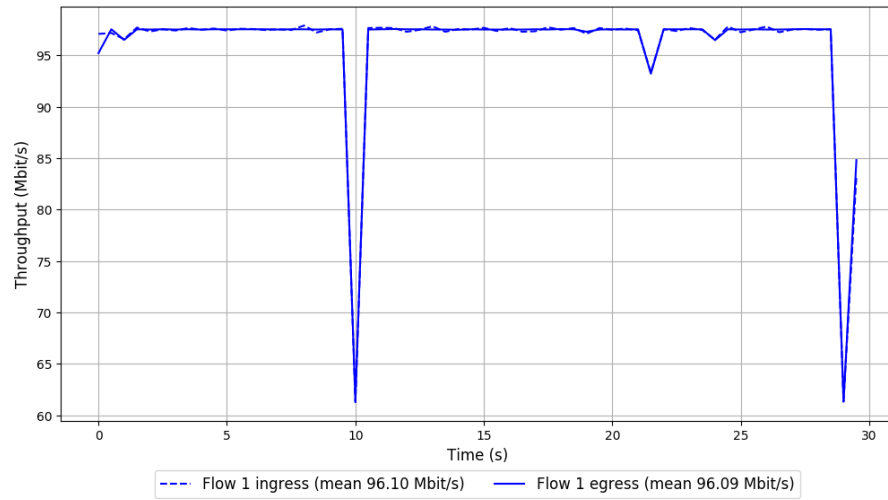
Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.15 Mbit/s) ---- Flow 1 egress (mean 96.15 Mbit/s)

Flow 1 (95th percentile 9.44 ms)

17

```
Run 8: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 21:20:49 +0000
End at: Sun, 16 Jul 2017 21:21:19 +0000
Local clock offset: -3.352 ms
Remote clock offset: 2.229 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:18:37 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 9.300 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 9.300 ms
Loss rate: 0.00%
```
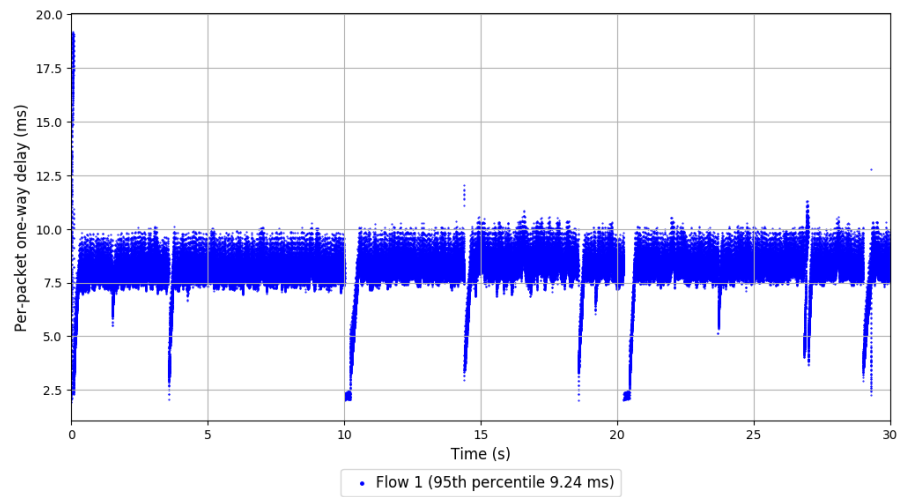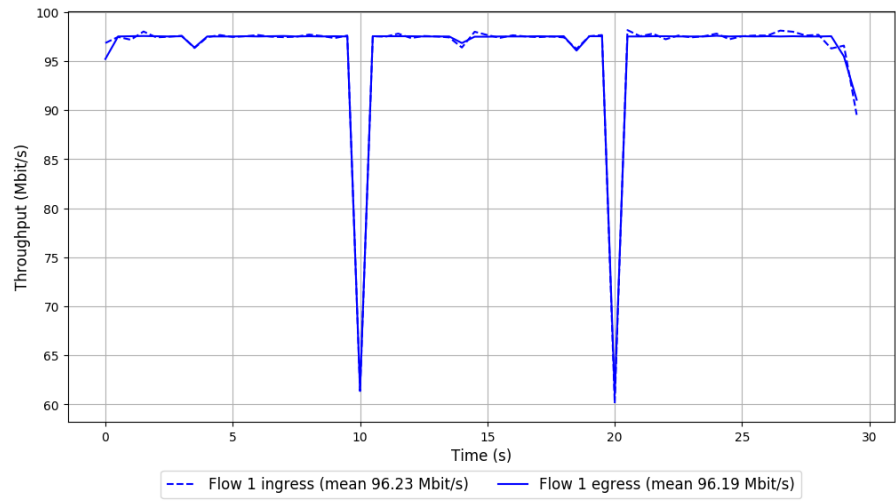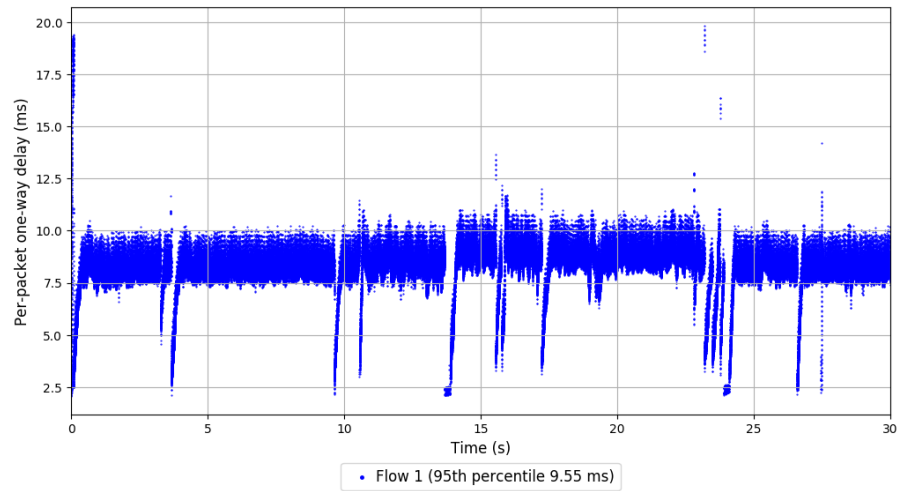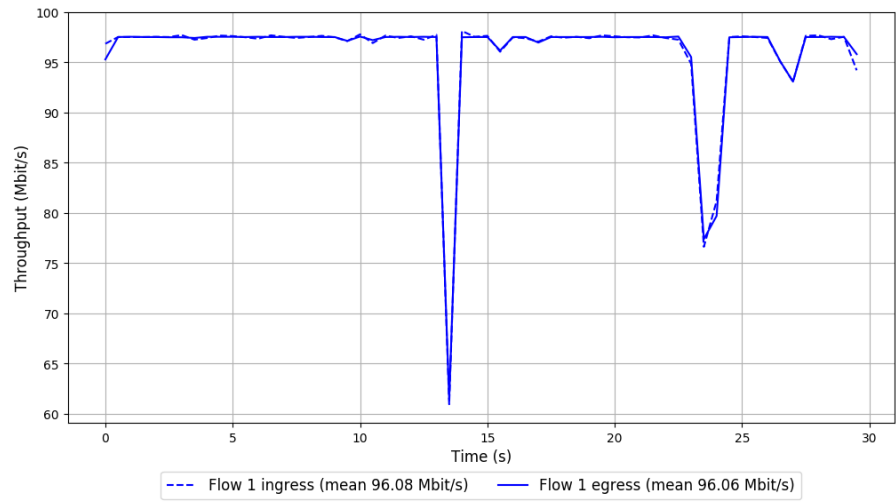
Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.10 Mbit/s) --- Flow 1 egress (mean 96.09 Mbit/s)

Flow 1 (95th percentile 9.30 ms)

```
Run 9: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 21:37:46 +0000
End at: Sun, 16 Jul 2017 21:38:16 +0000
Local clock offset: -3.492 ms
Remote clock offset: 1.976 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:18:49 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.19 Mbit/s
95th percentile per-packet one-way delay: 9.239 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.19 Mbit/s
95th percentile per-packet one-way delay: 9.239 ms
Loss rate: 0.02%
```
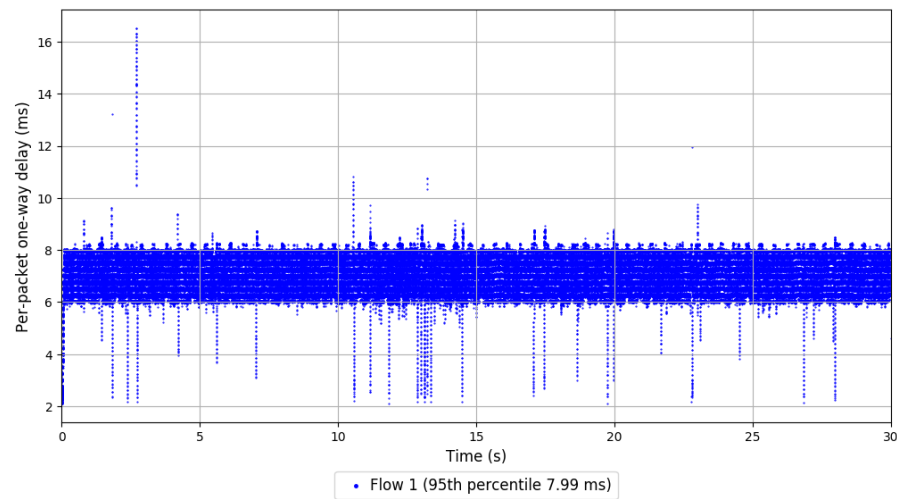
Run 9: Report of TCP BBR — Data Link

```
Run 10: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 21:54:50 +0000
End at: Sun, 16 Jul 2017 21:55:20 +0000
Local clock offset: -3.401 ms
Remote clock offset: 1.499 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:18:50 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 9.550 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 9.550 ms
Loss rate: 0.00%
```

Run 10: Report of TCP BBR — Data Link

```
Run 1: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 19:15:49 +0000
End at: Sun, 16 Jul 2017 19:16:19 +0000
Local clock offset: -1.36 ms
Remote clock offset: -0.771 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:18:58 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.28 Mbit/s
95th percentile per-packet one-way delay: 7.991 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.28 Mbit/s
95th percentile per-packet one-way delay: 7.991 ms
Loss rate: 0.00%
```
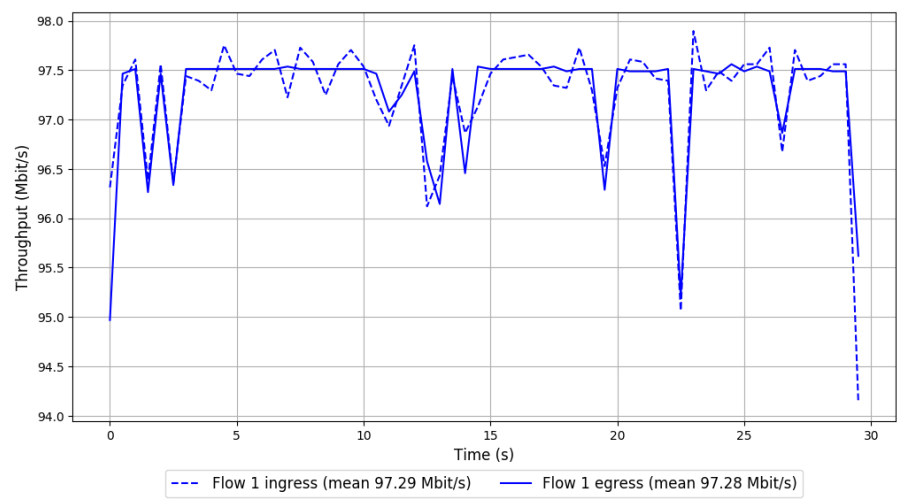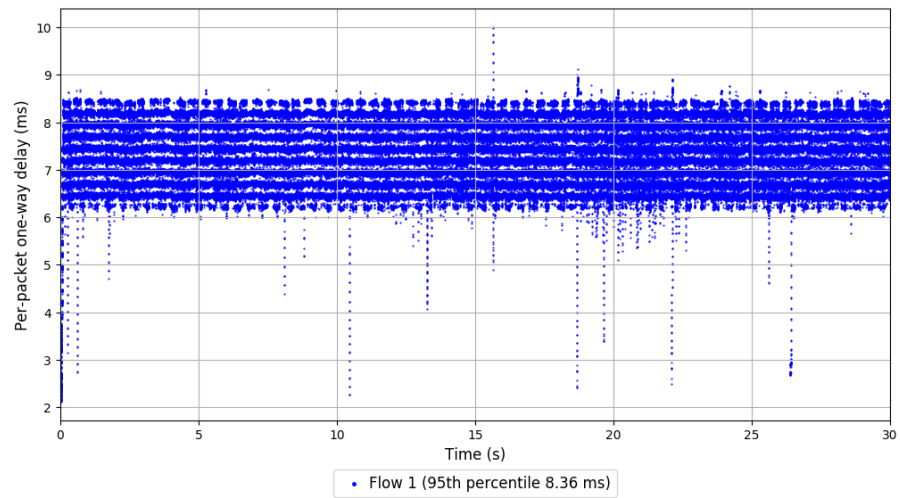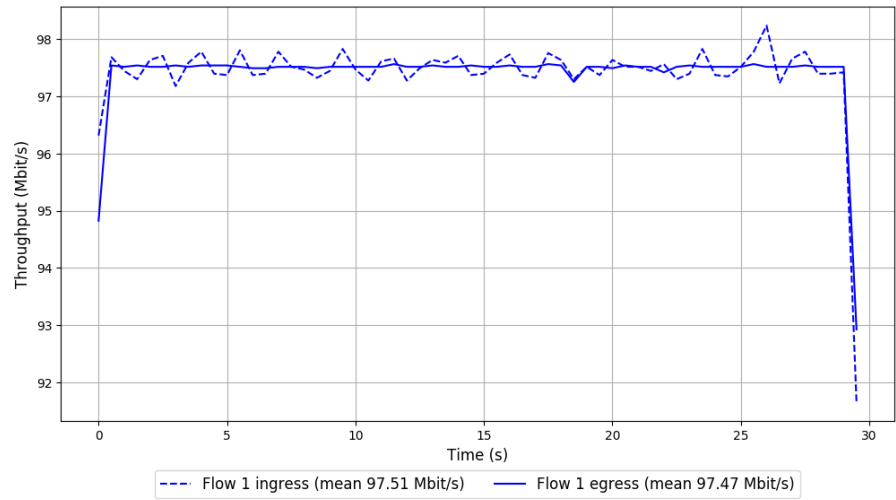
Run 1: Report of CalibratedKoho — Data Link

```
Run 2: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 19:32:41 +0000
End at: Sun, 16 Jul 2017 19:33:11 +0000
Local clock offset: -1.564 ms
Remote clock offset: -0.67 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:19:03 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 8.355 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 8.355 ms
Loss rate: 0.01%
```
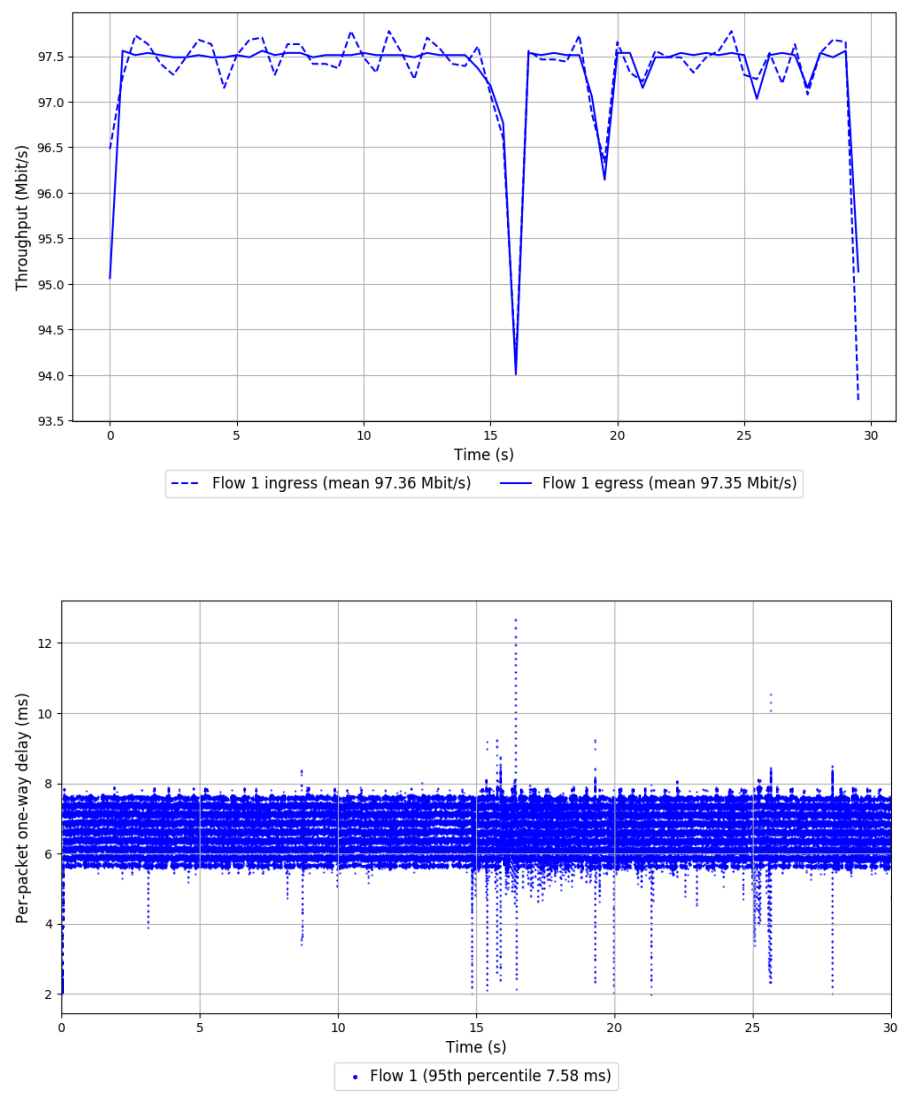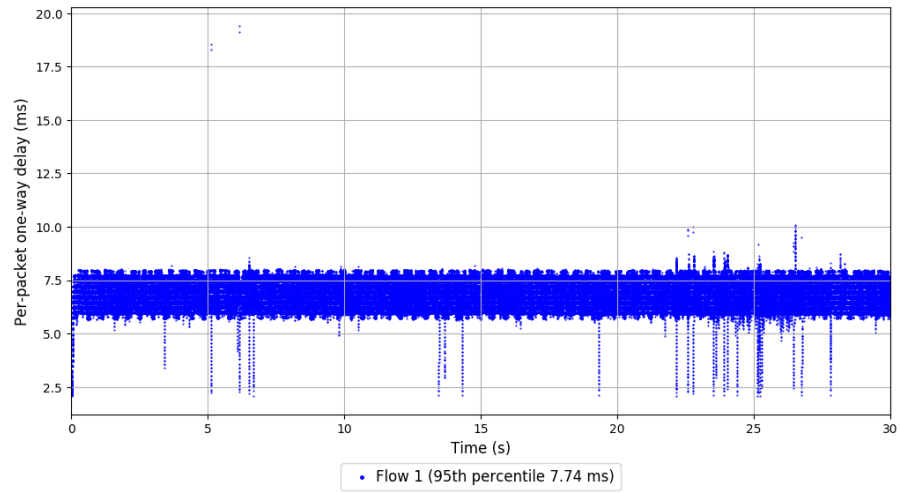
Run 2: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 97.51 Mbit/s) — Flow 1 egress (mean 97.47 Mbit/s)

· Flow 1 (95th percentile 8.36 ms)

```
Run 3: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 19:49:45 +0000
End at: Sun, 16 Jul 2017 19:50:15 +0000
Local clock offset: -1.728 ms
Remote clock offset: -0.532 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:19:15 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.35 Mbit/s
95th percentile per-packet one-way delay: 7.576 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.35 Mbit/s
95th percentile per-packet one-way delay: 7.576 ms
Loss rate: 0.00%
```
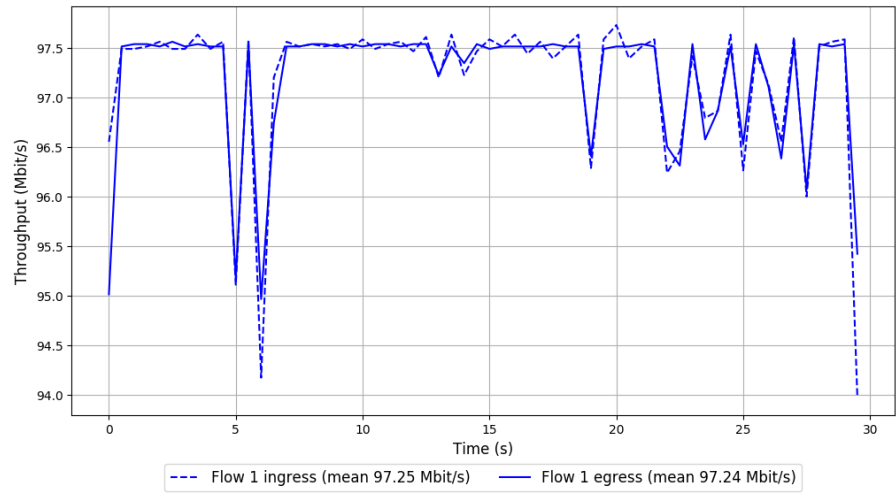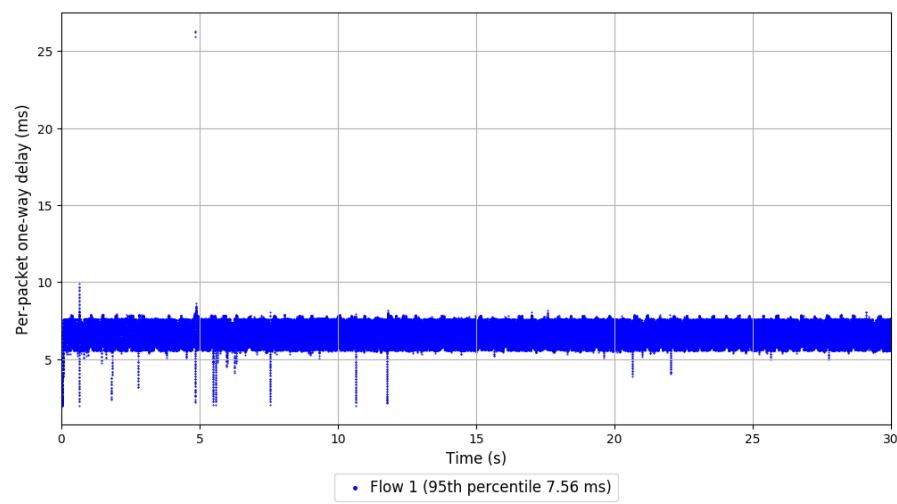
Run 3: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 97.36 Mbit/s) —— Flow 1 egress (mean 97.35 Mbit/s)

Flow 1 (95th percentile 7.58 ms)

```
Run 4: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 20:06:37 +0000
End at: Sun, 16 Jul 2017 20:07:07 +0000
Local clock offset: -2.01 ms
Remote clock offset: 0.401 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:19:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 7.740 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 7.740 ms
Loss rate: 0.00%
```
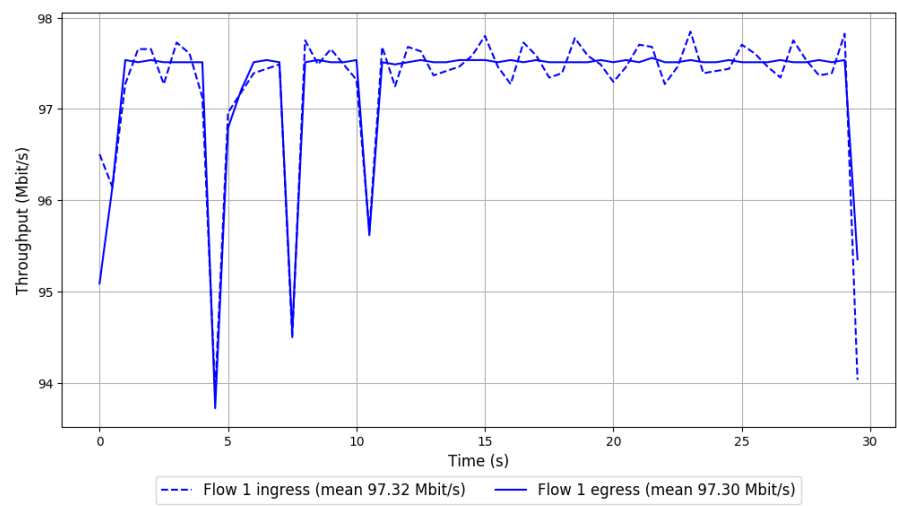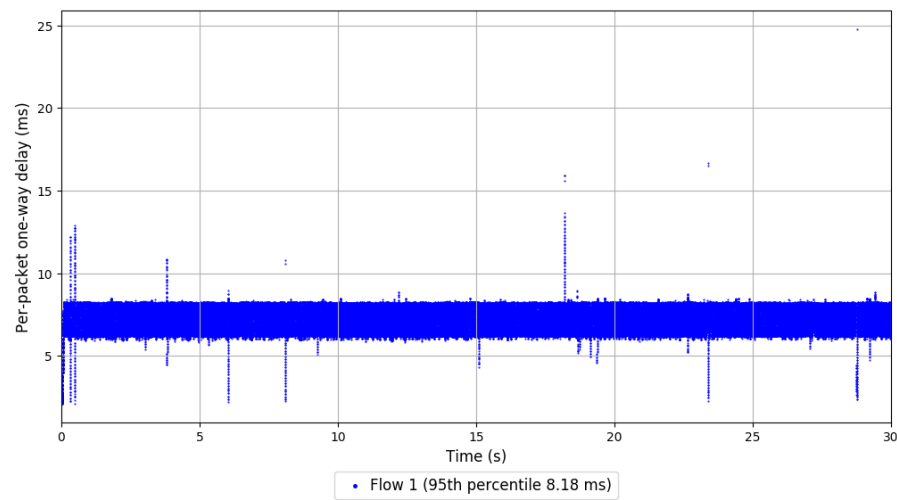
Run 4: Report of CalibratedKoho — Data Link

```
Run 5: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 20:23:29 +0000
End at: Sun, 16 Jul 2017 20:23:59 +0000
Local clock offset: -2.285 ms
Remote clock offset: 0.895 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:19:29 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 7.561 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 7.561 ms
Loss rate: 0.00%
```
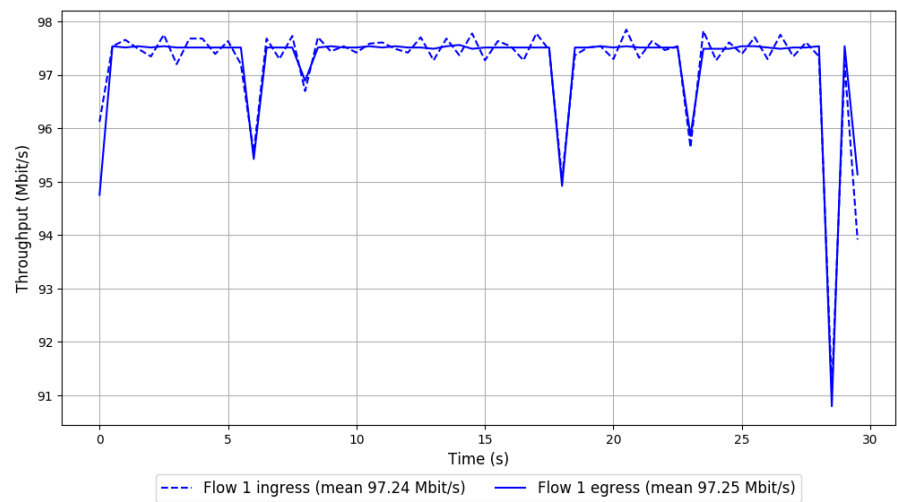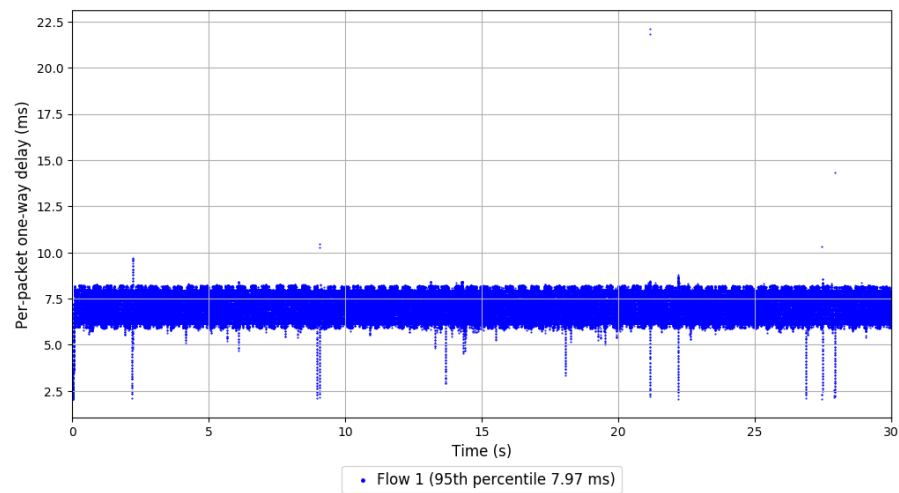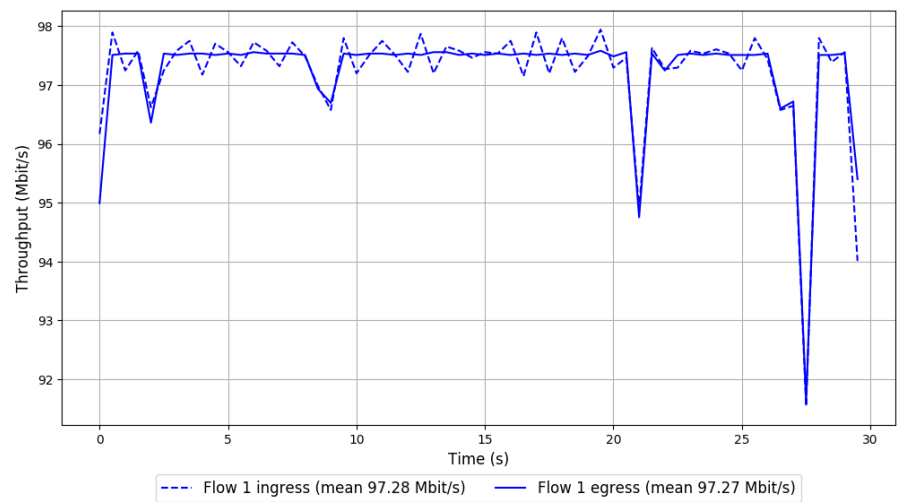
Run 5: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 97.32 Mbit/s) ----- Flow 1 egress (mean 97.30 Mbit/s) ——

• Flow 1 (95th percentile 7.56 ms)

```
Run 6: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 20:40:22 +0000
End at: Sun, 16 Jul 2017 20:40:52 +0000
Local clock offset: -2.57 ms
Remote clock offset: 1.181 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:19:29 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.25 Mbit/s
95th percentile per-packet one-way delay: 8.182 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.25 Mbit/s
95th percentile per-packet one-way delay: 8.182 ms
Loss rate: 0.00%
```
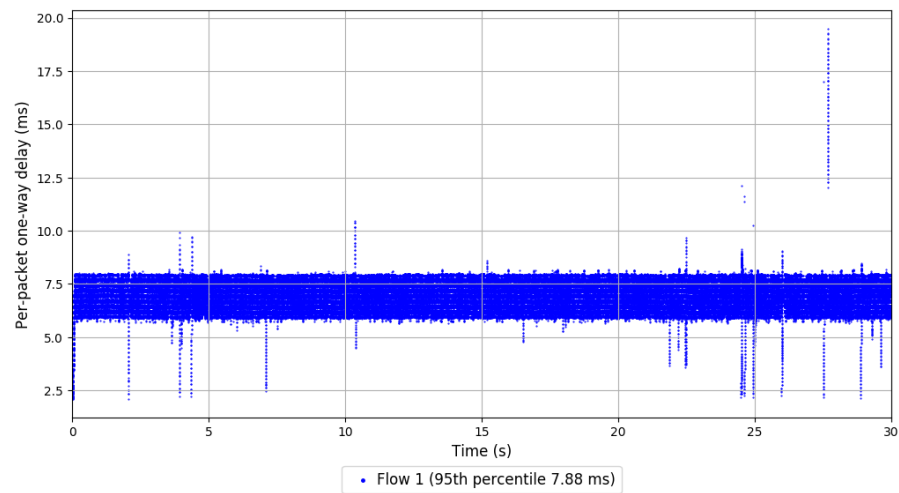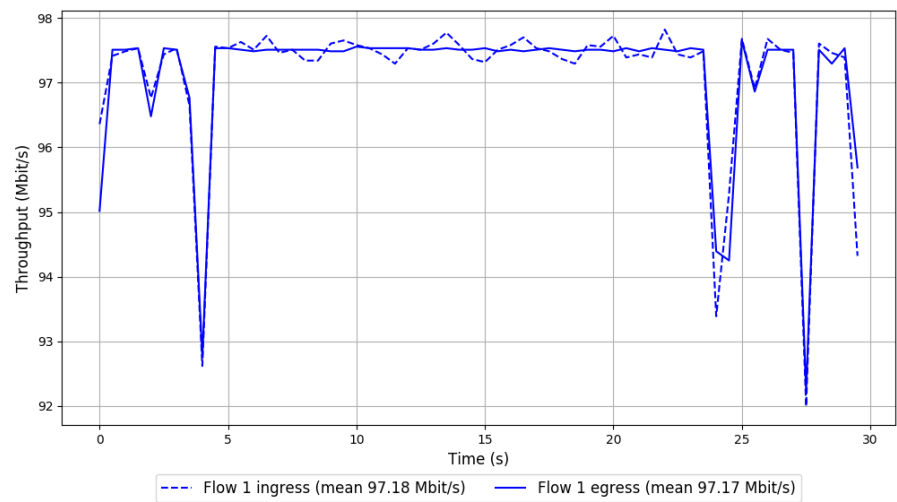
Run 6: Report of CalibratedKoho — Data Link

```
Run 7: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 20:57:12 +0000
End at: Sun, 16 Jul 2017 20:57:42 +0000
Local clock offset: -2.896 ms
Remote clock offset: 1.721 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:19:43 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 7.972 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 7.972 ms
Loss rate: 0.00%
```
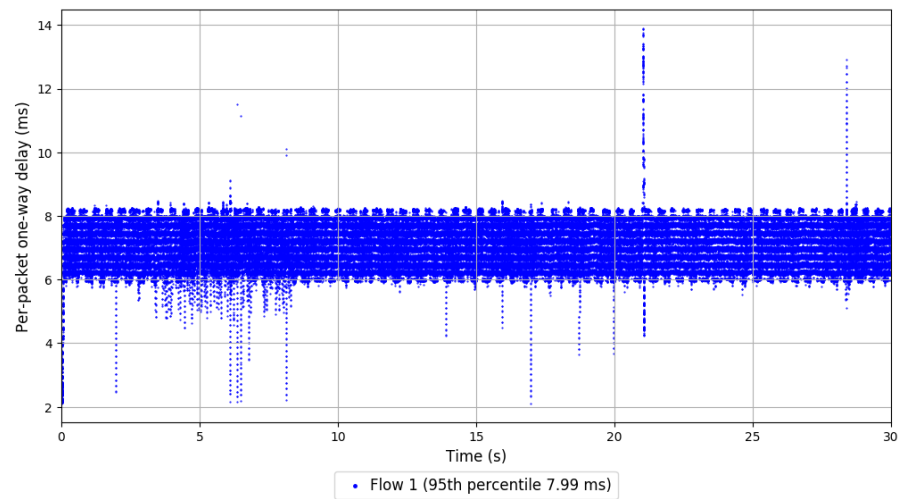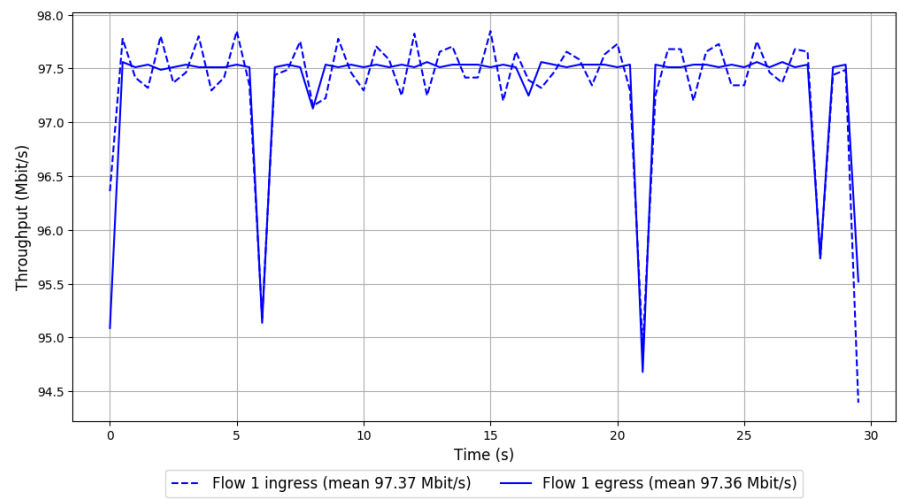
Run 7: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 97.28 Mbit/s) --- Flow 1 egress (mean 97.27 Mbit/s)

Flow 1 (95th percentile 7.97 ms)

```
Run 8: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 21:14:04 +0000
End at: Sun, 16 Jul 2017 21:14:34 +0000
Local clock offset: -3.117 ms
Remote clock offset: 2.352 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:19:43 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 7.875 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 7.875 ms
Loss rate: 0.00%
```
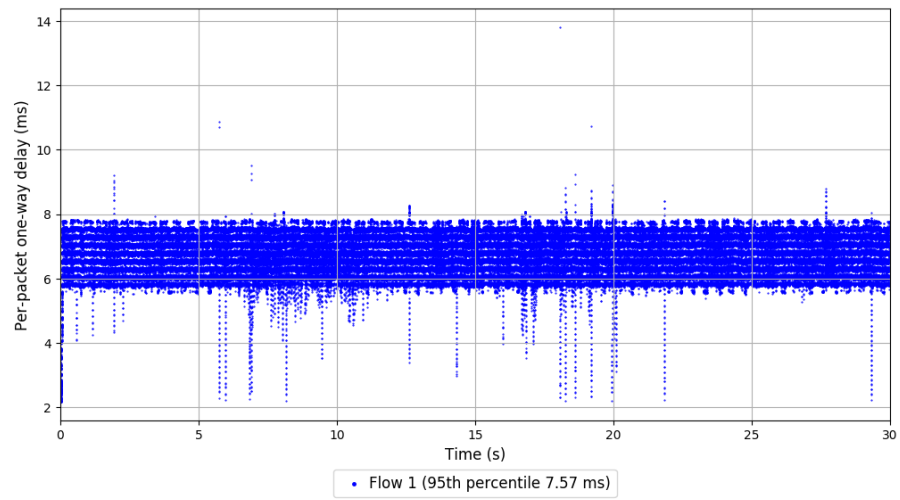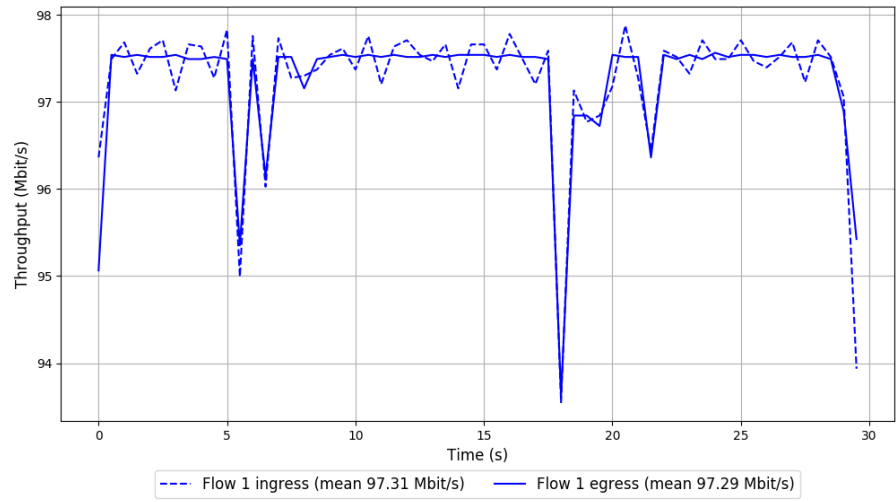
Run 8: Report of CalibratedKoho — Data Link

```
Run 9: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 21:30:57 +0000
End at: Sun, 16 Jul 2017 21:31:27 +0000
Local clock offset: -3.508 ms
Remote clock offset: 2.109 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:19:55 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.36 Mbit/s
95th percentile per-packet one-way delay: 7.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.36 Mbit/s
95th percentile per-packet one-way delay: 7.989 ms
Loss rate: 0.00%
```

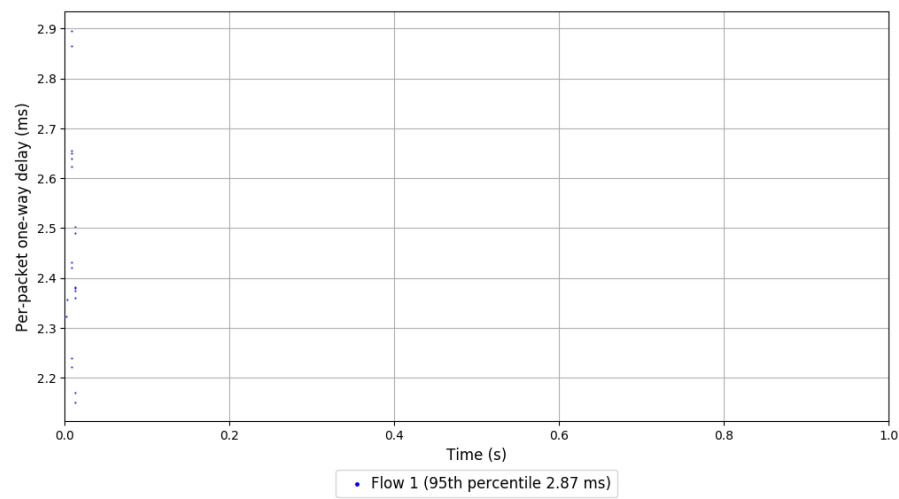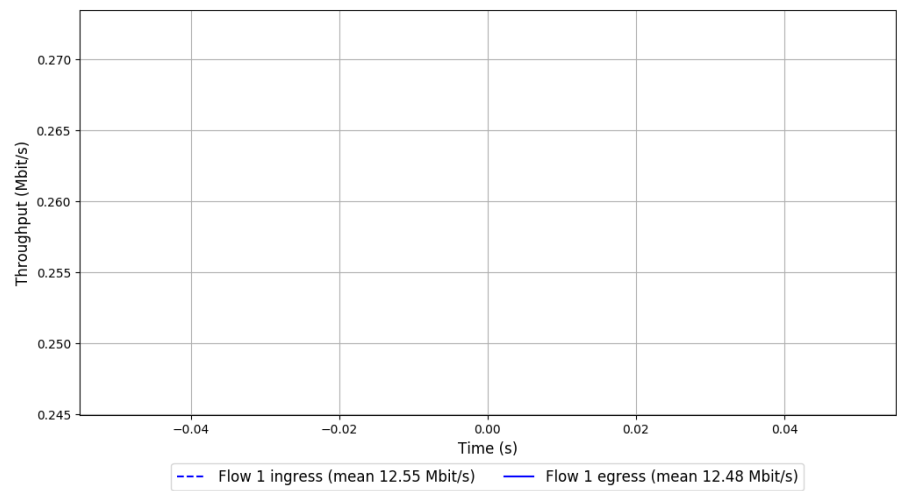Run 9: Report of CalibratedKoho — Data Link

```
Run 10: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 21:47:54 +0000
End at: Sun, 16 Jul 2017 21:48:24 +0000
Local clock offset: -3.45 ms
Remote clock offset: 1.812 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:19:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.29 Mbit/s
95th percentile per-packet one-way delay: 7.572 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.29 Mbit/s
95th percentile per-packet one-way delay: 7.572 ms
Loss rate: 0.00%
```
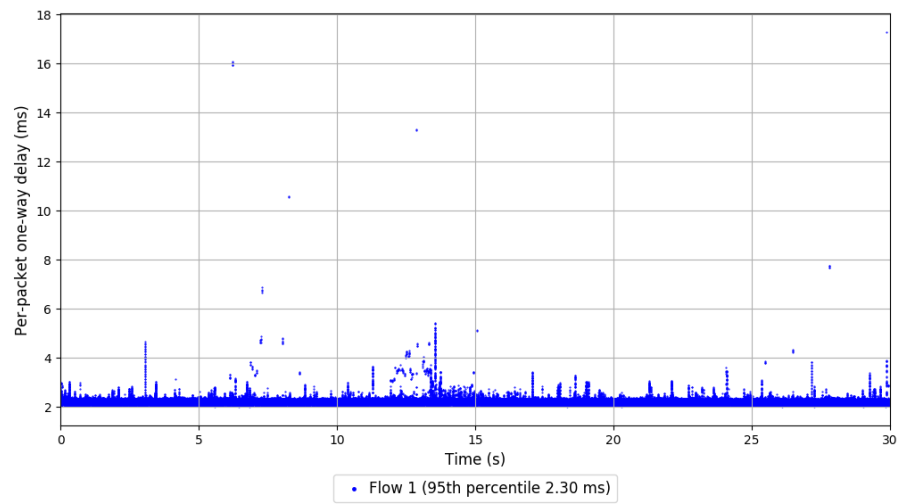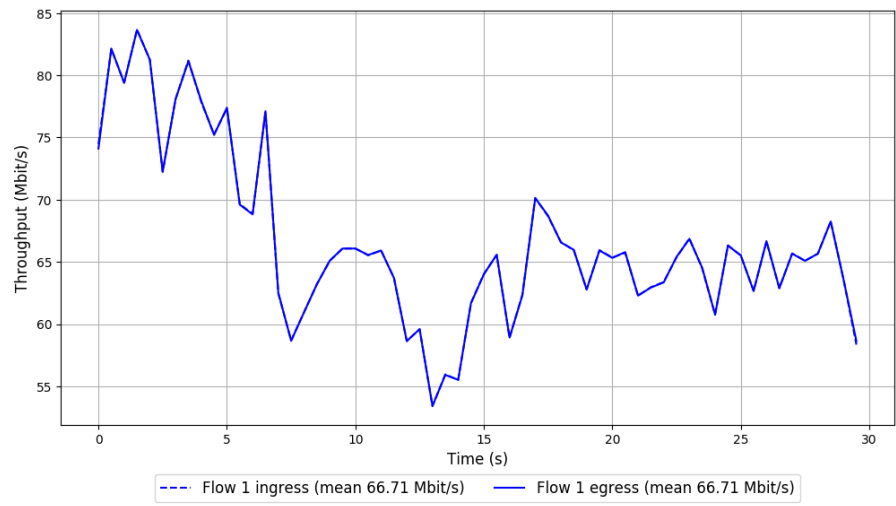
Run 10: Report of CalibratedKoho — Data Link

Run 1: Statistics of Copa

Start at: Sun, 16 Jul 2017 19:09:18 +0000
End at: Sun, 16 Jul 2017 19:09:48 +0000
Local clock offset: -1.244 ms
Remote clock offset: -0.821 ms

Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 12.55 Mbit/s) --- Flow 1 egress (mean 12.48 Mbit/s)

Flow 1 (95th percentile 2.87 ms)

```
Run 2: Statistics of Copa

Start at: Sun, 16 Jul 2017 19:26:03 +0000
End at: Sun, 16 Jul 2017 19:26:33 +0000
Local clock offset: -1.439 ms
Remote clock offset: -0.733 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:20:13 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.71 Mbit/s
95th percentile per-packet one-way delay: 2.298 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.71 Mbit/s
95th percentile per-packet one-way delay: 2.298 ms
Loss rate: 0.00%
```
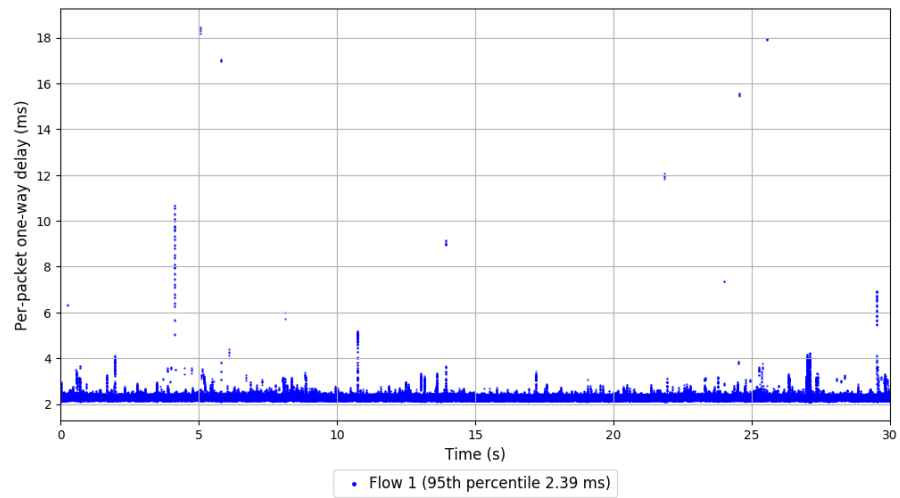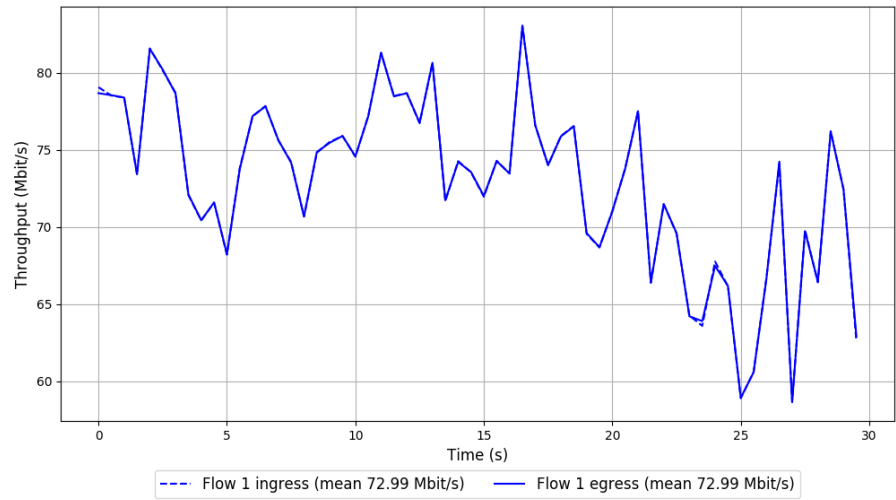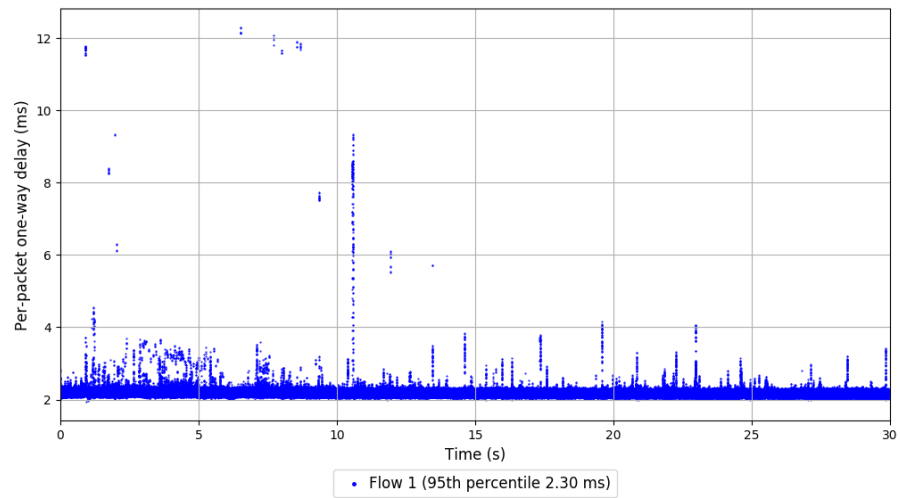
Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 66.71 Mbit/s)   Flow 1 egress (mean 66.71 Mbit/s)

Flow 1 (95th percentile 2.30 ms)

47

```
Run 3: Statistics of Copa

Start at: Sun, 16 Jul 2017 19:43:06 +0000
End at: Sun, 16 Jul 2017 19:43:36 +0000
Local clock offset: -1.697 ms
Remote clock offset: -0.597 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:20:13 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.99 Mbit/s
95th percentile per-packet one-way delay: 2.392 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.99 Mbit/s
95th percentile per-packet one-way delay: 2.392 ms
Loss rate: 0.00%
```
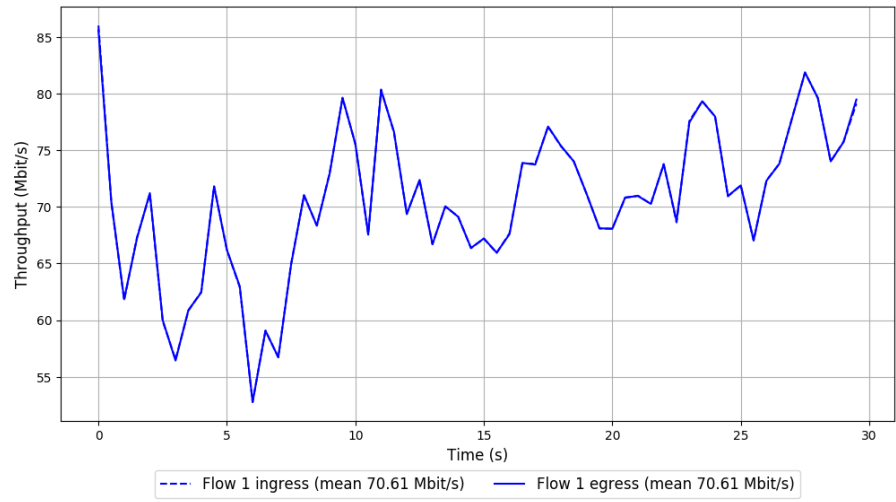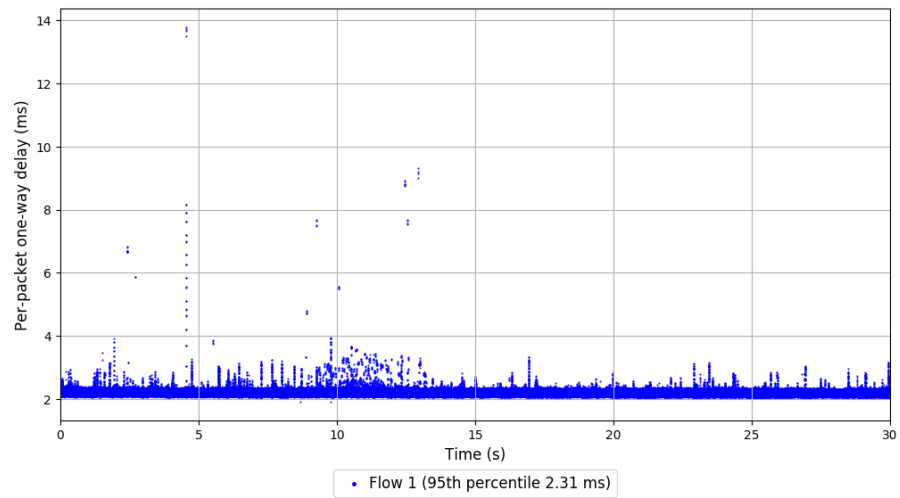
Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: Sun, 16 Jul 2017 19:59:59 +0000
End at: Sun, 16 Jul 2017 20:00:29 +0000
Local clock offset: -1.887 ms
Remote clock offset: -0.008 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:20:31 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.61 Mbit/s
95th percentile per-packet one-way delay: 2.297 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.61 Mbit/s
95th percentile per-packet one-way delay: 2.297 ms
Loss rate: 0.00%
```
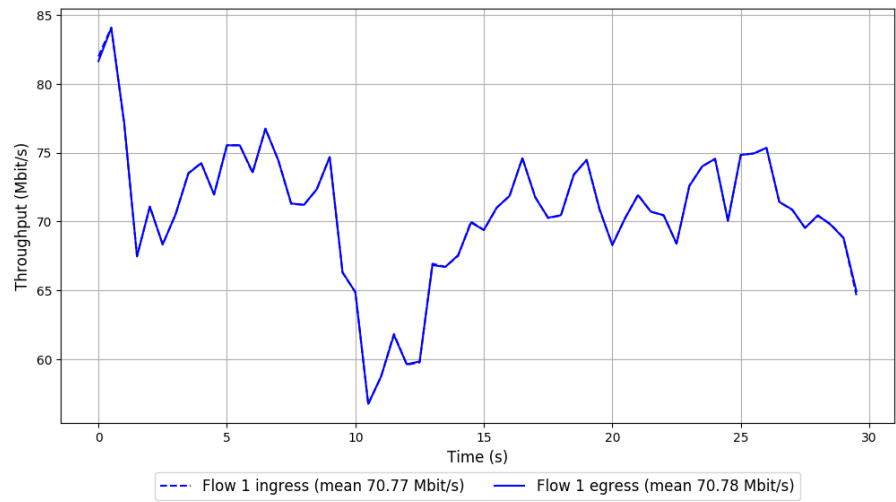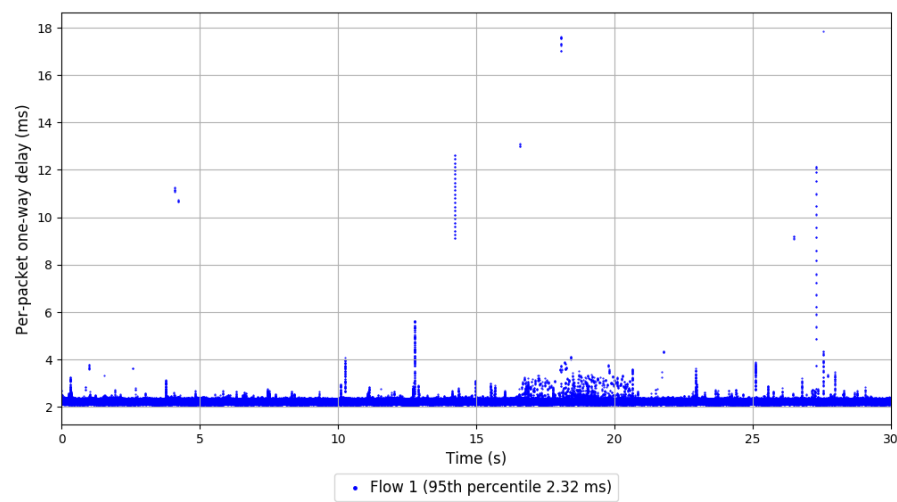
Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: Sun, 16 Jul 2017 20:16:51 +0000
End at: Sun, 16 Jul 2017 20:17:21 +0000
Local clock offset: -2.175 ms
Remote clock offset: 0.773 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:20:31 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.78 Mbit/s
95th percentile per-packet one-way delay: 2.314 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.78 Mbit/s
95th percentile per-packet one-way delay: 2.314 ms
Loss rate: 0.00%
```
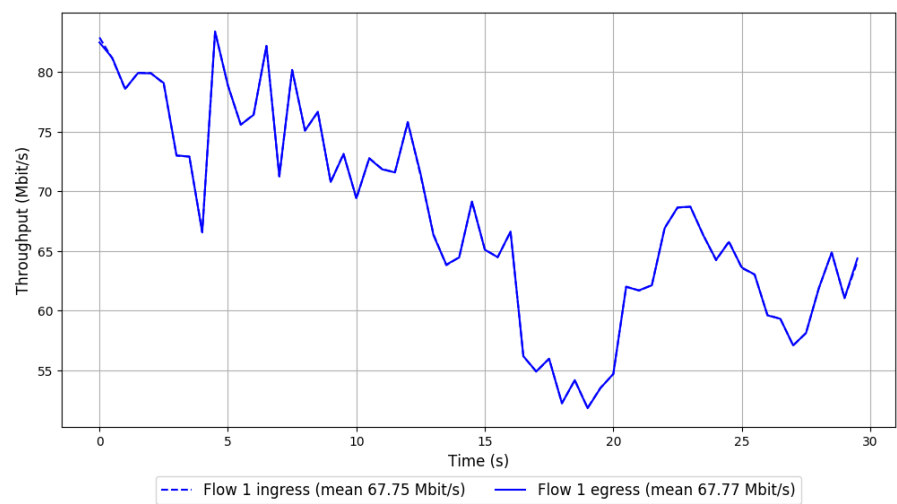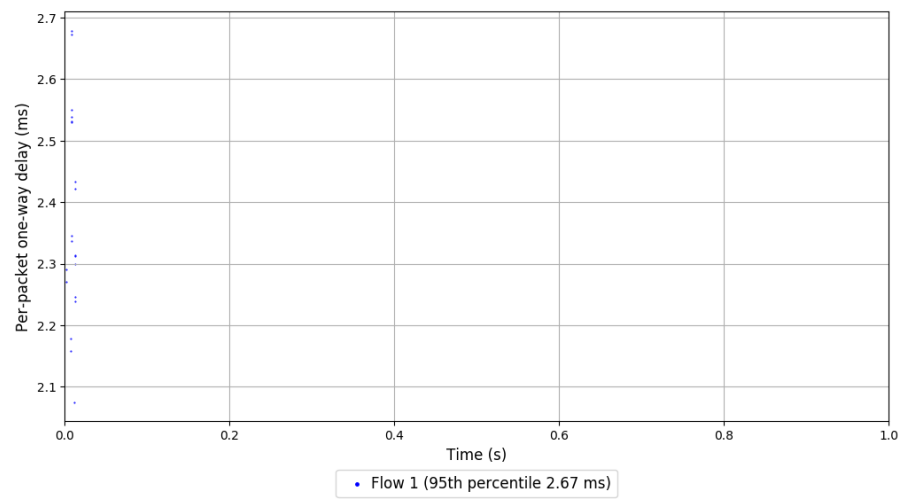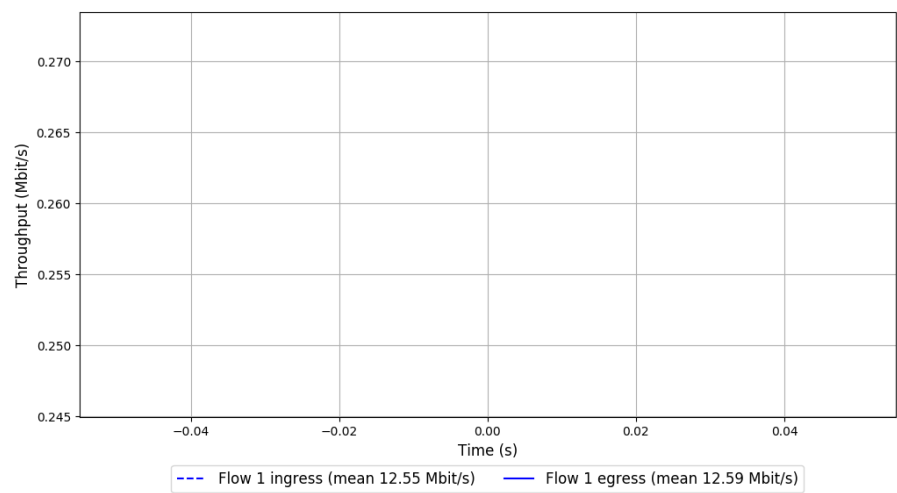
Run 5: Report of Copa — Data Link

```
Run 6: Statistics of Copa

Start at: Sun, 16 Jul 2017 20:33:43 +0000
End at: Sun, 16 Jul 2017 20:34:13 +0000
Local clock offset: -2.49 ms
Remote clock offset: 1.091 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:20:47 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.77 Mbit/s
95th percentile per-packet one-way delay: 2.321 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.77 Mbit/s
95th percentile per-packet one-way delay: 2.321 ms
Loss rate: 0.00%
```
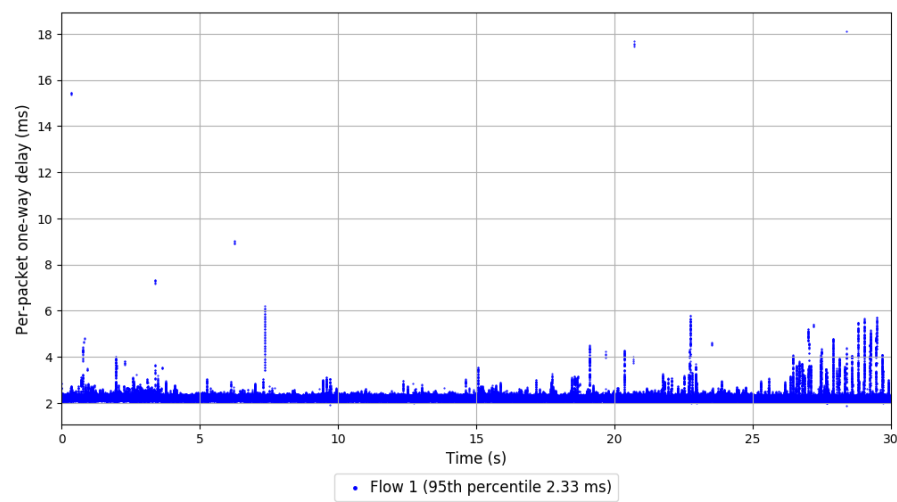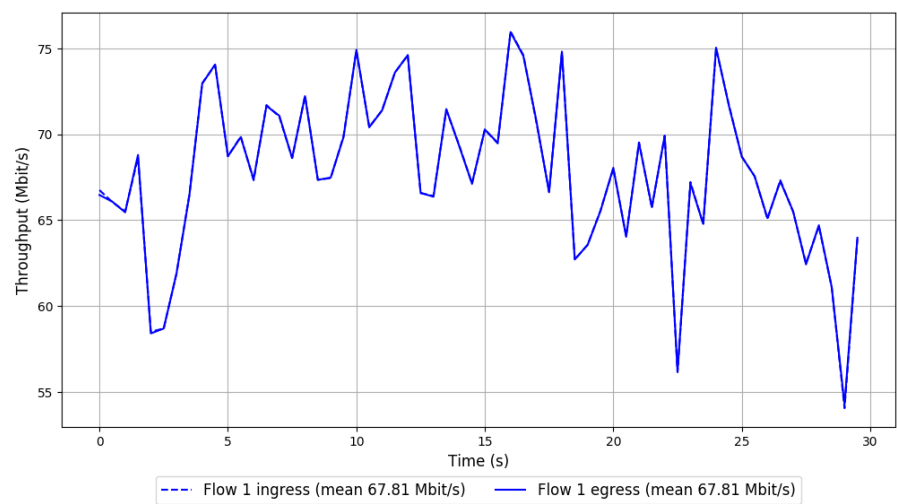
Run 6: Report of Copa — Data Link

Flow 1 ingress (mean 67.75 Mbit/s)   Flow 1 egress (mean 67.77 Mbit/s)

• Flow 1 (95th percentile 2.32 ms)

```
Run 7: Statistics of Copa

Start at: Sun, 16 Jul 2017 20:50:41 +0000
End at: Sun, 16 Jul 2017 20:51:11 +0000
Local clock offset: -2.723 ms
Remote clock offset: 1.527 ms
```

Run 7: Report of Copa — Data Link

Flow 1 ingress (mean 12.55 Mbit/s) --- Flow 1 egress (mean 12.59 Mbit/s)

Flow 1 (95th percentile 2.67 ms)

```
Run 8: Statistics of Copa

Start at: Sun, 16 Jul 2017 21:07:26 +0000
End at: Sun, 16 Jul 2017 21:07:56 +0000
Local clock offset: -3.001 ms
Remote clock offset: 2.275 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:20:48 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.81 Mbit/s
95th percentile per-packet one-way delay: 2.331 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.81 Mbit/s
95th percentile per-packet one-way delay: 2.331 ms
Loss rate: 0.00%
```
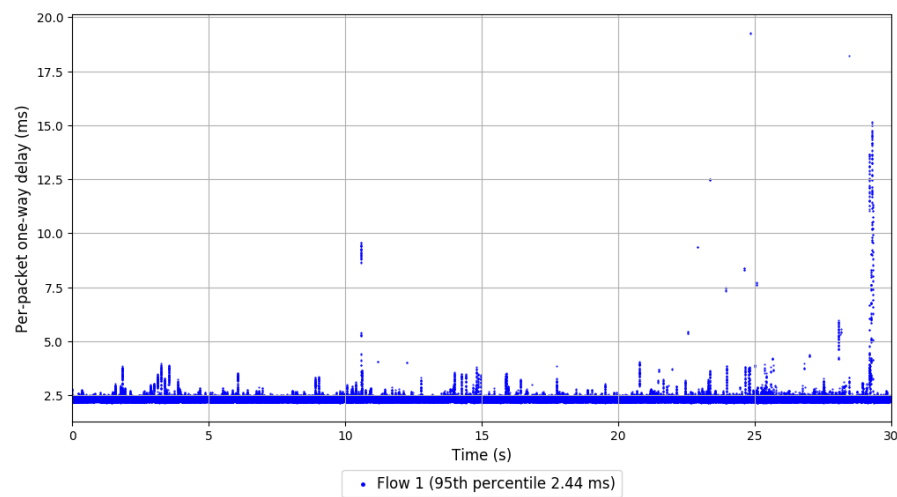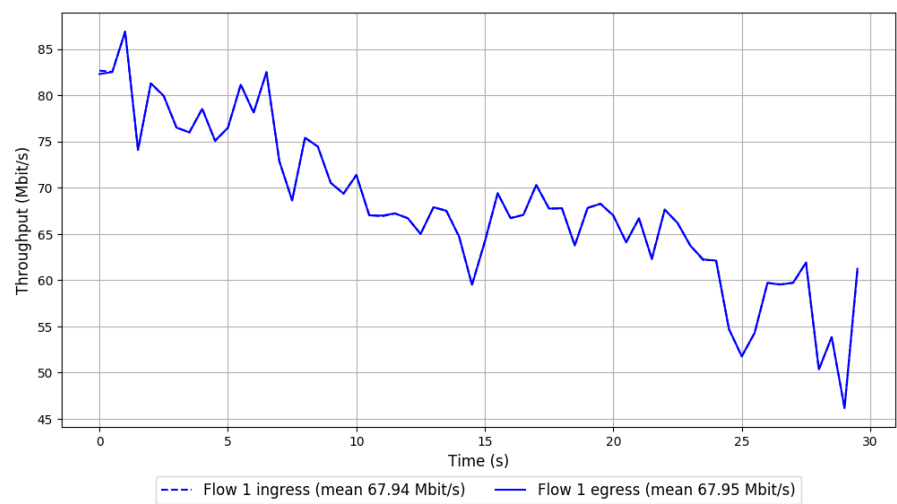
Run 8: Report of Copa — Data Link

Flow 1 ingress (mean 67.81 Mbit/s) ---- Flow 1 egress (mean 67.81 Mbit/s) ——

Flow 1 (95th percentile 2.33 ms) ·

```
Run 9: Statistics of Copa

Start at: Sun, 16 Jul 2017 21:24:19 +0000
End at: Sun, 16 Jul 2017 21:24:49 +0000
Local clock offset: -3.484 ms
Remote clock offset: 2.213 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:21:04 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.95 Mbit/s
95th percentile per-packet one-way delay: 2.436 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.95 Mbit/s
95th percentile per-packet one-way delay: 2.436 ms
Loss rate: 0.00%
```
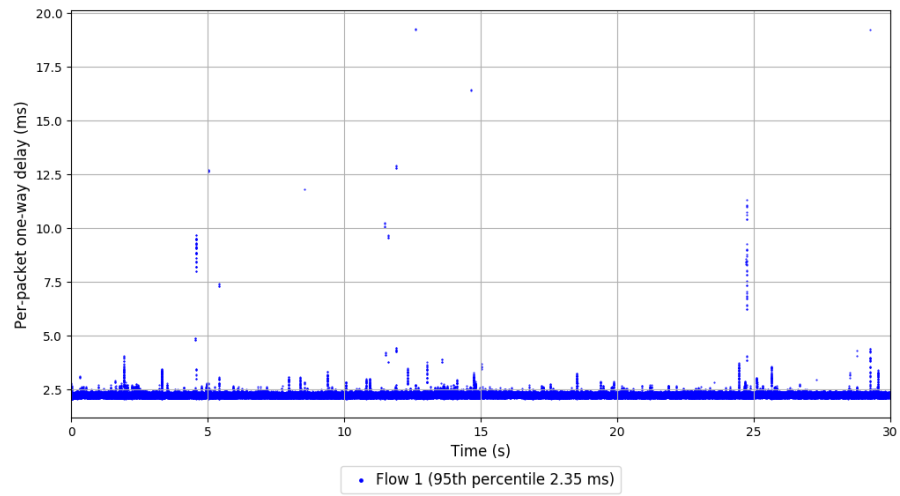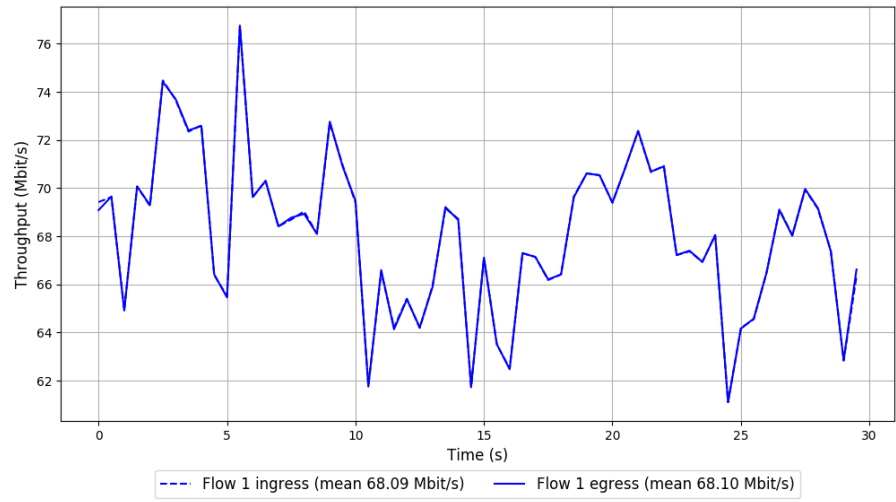
Run 9: Report of Copa — Data Link

```
Run 10: Statistics of Copa

Start at: Sun, 16 Jul 2017 21:41:15 +0000
End at: Sun, 16 Jul 2017 21:41:46 +0000
Local clock offset: -3.471 ms
Remote clock offset: 2.002 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:21:04 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.10 Mbit/s
95th percentile per-packet one-way delay: 2.345 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.10 Mbit/s
95th percentile per-packet one-way delay: 2.345 ms
Loss rate: 0.00%
```
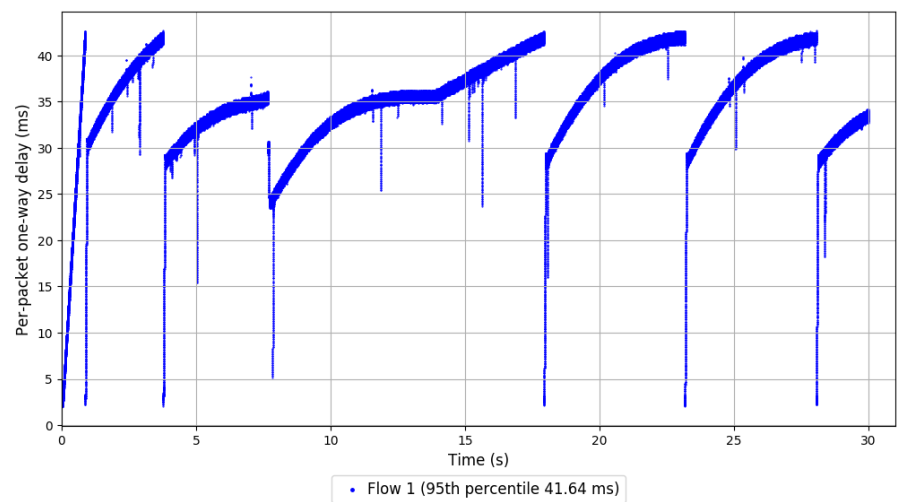
Run 10: Report of Copa — Data Link

```
Run 1: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 19:11:26 +0000
End at: Sun, 16 Jul 2017 19:11:56 +0000
Local clock offset: -1.249 ms
Remote clock offset: -0.862 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:21:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 41.643 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 41.643 ms
Loss rate: 0.70%
```
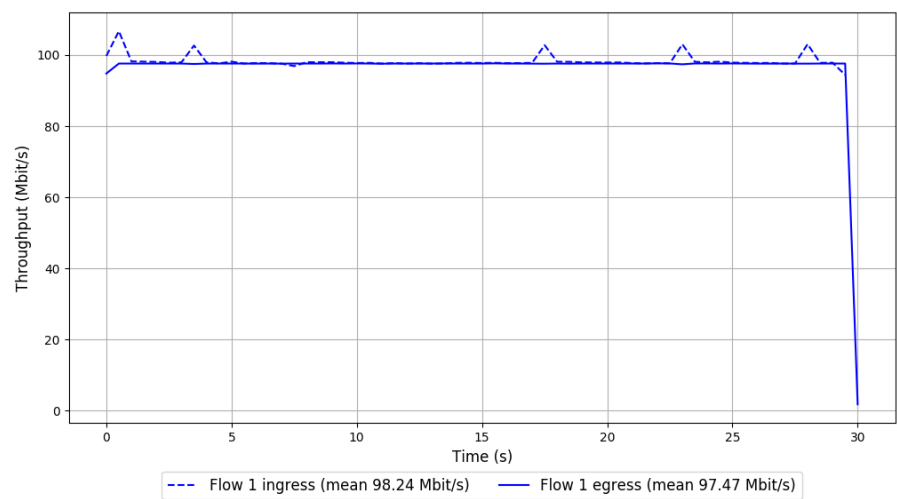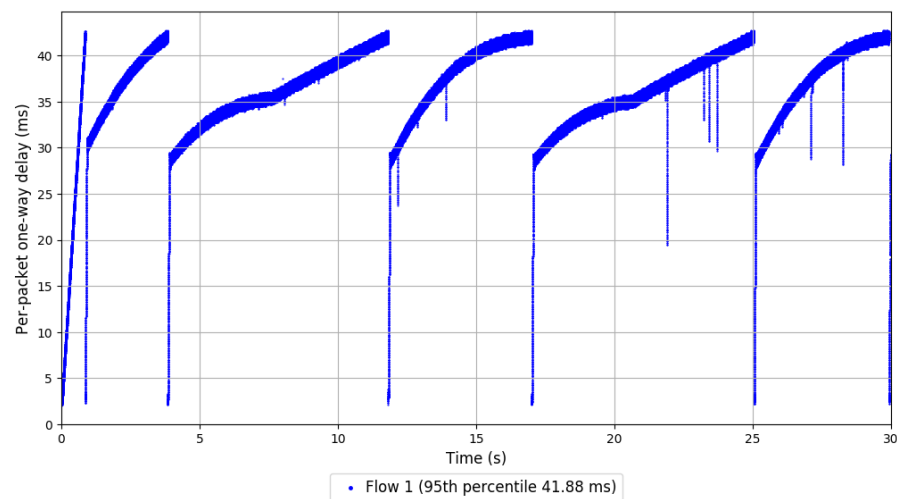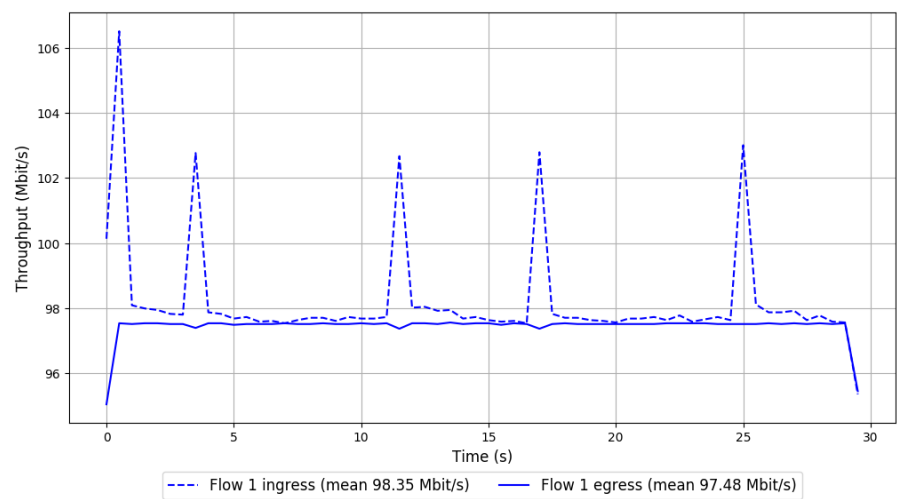
Run 1: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 98.24 Mbit/s)   Flow 1 egress (mean 97.47 Mbit/s)

Flow 1 (95th percentile 41.64 ms)

```
Run 2: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 19:28:18 +0000
End at: Sun, 16 Jul 2017 19:28:48 +0000
Local clock offset: -1.5 ms
Remote clock offset: -0.677 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:21:18 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 41.879 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 41.879 ms
Loss rate: 0.80%
```
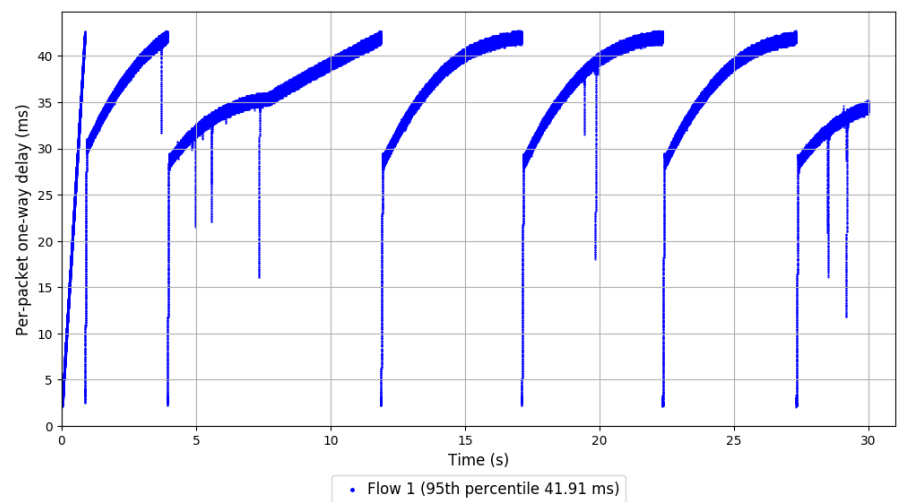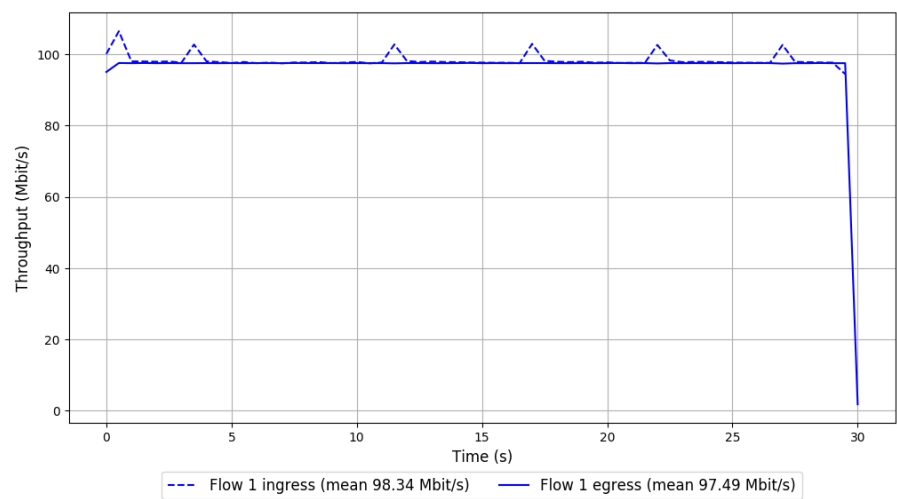
Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 98.35 Mbit/s)   Flow 1 egress (mean 97.48 Mbit/s)

Flow 1 (95th percentile 41.88 ms)

```
Run 3: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 19:45:21 +0000
End at: Sun, 16 Jul 2017 19:45:51 +0000
Local clock offset: -1.723 ms
Remote clock offset: -0.598 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:21:30 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 41.913 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 41.913 ms
Loss rate: 0.82%
```
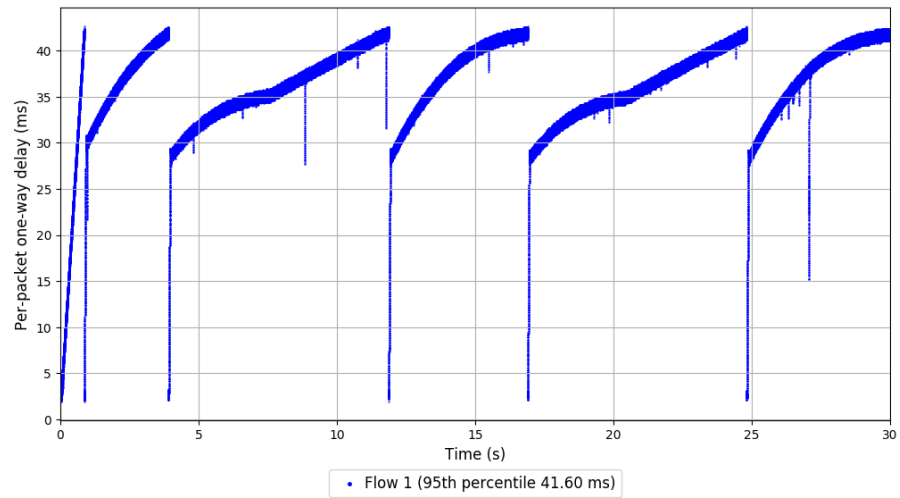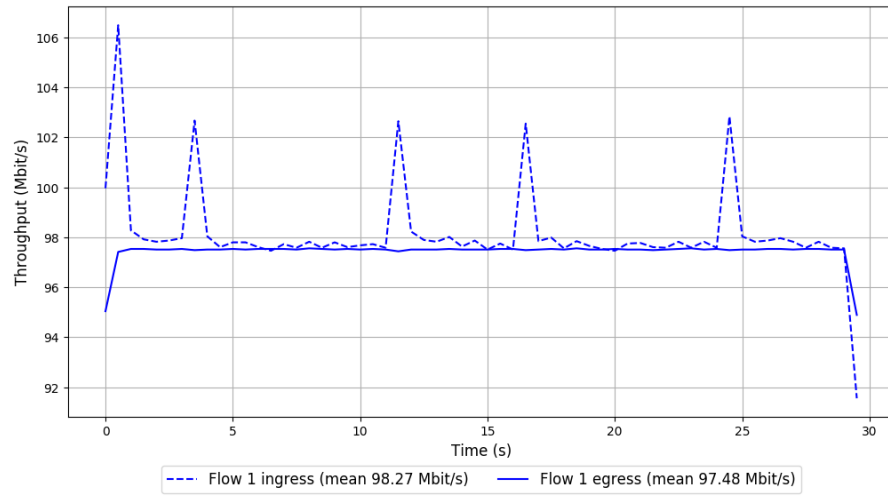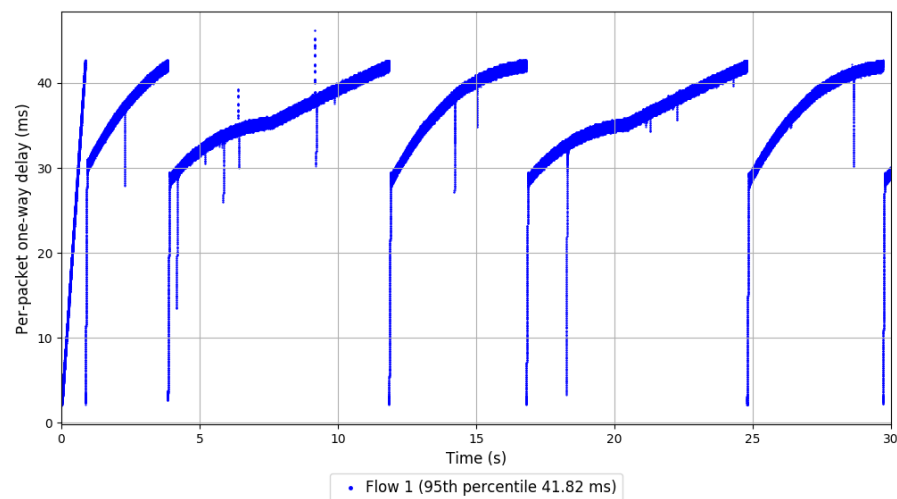
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 98.34 Mbit/s)   Flow 1 egress (mean 97.49 Mbit/s)

Flow 1 (95th percentile 41.91 ms)

```
Run 4: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 20:02:14 +0000
End at: Sun, 16 Jul 2017 20:02:44 +0000
Local clock offset: -1.924 ms
Remote clock offset: 0.082 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:21:31 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 41.601 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 41.601 ms
Loss rate: 0.74%
```
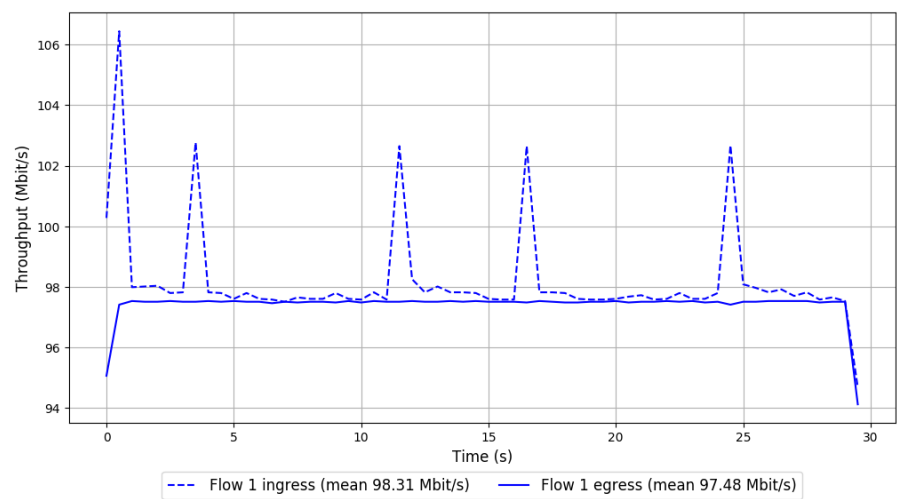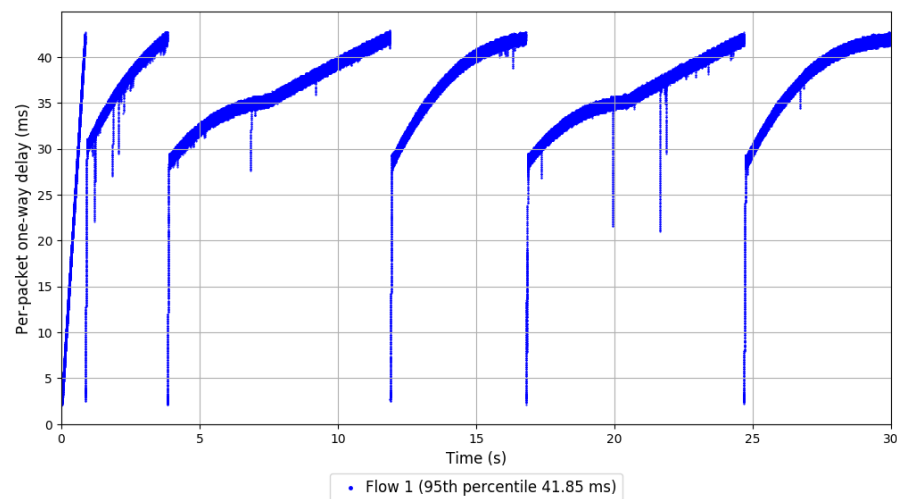
Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 20:19:06 +0000
End at: Sun, 16 Jul 2017 20:19:36 +0000
Local clock offset: -2.21 ms
Remote clock offset: 0.856 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:21:43 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 41.816 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 41.816 ms
Loss rate: 0.81%
```
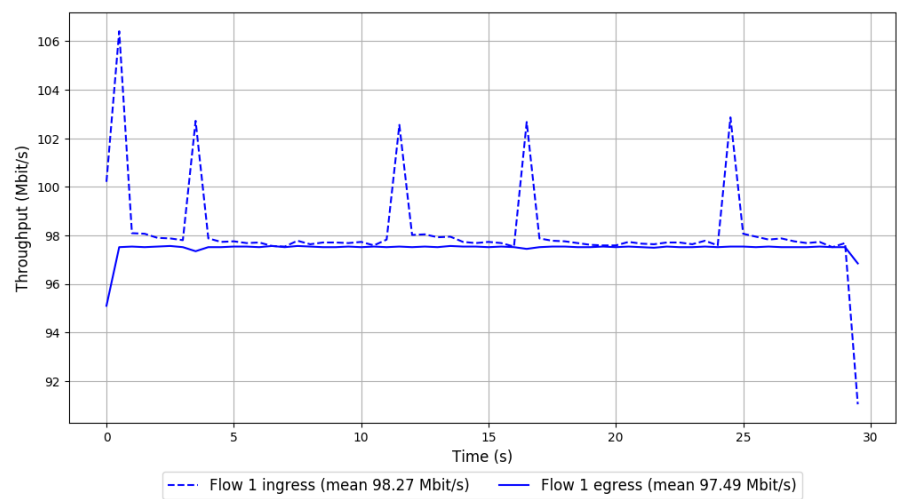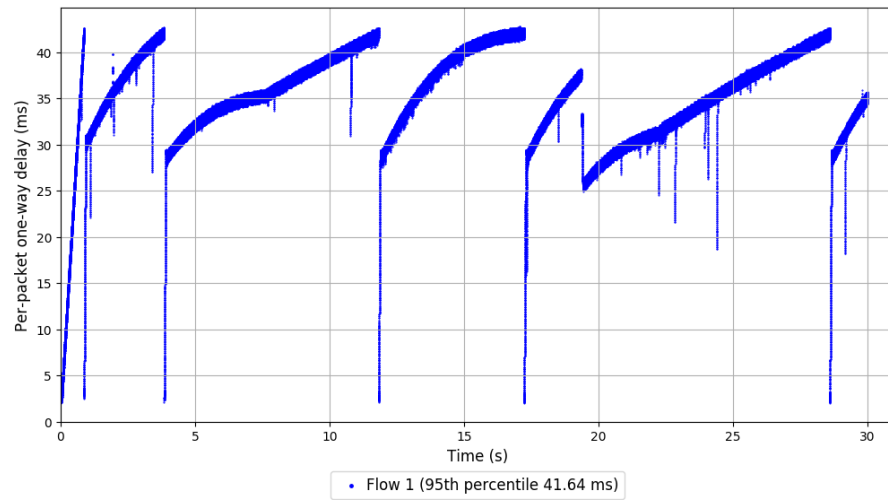
Run 5: Report of TCP Cubic — Data Link

```
Run 6: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 20:35:58 +0000
End at: Sun, 16 Jul 2017 20:36:28 +0000
Local clock offset: -2.503 ms
Remote clock offset: 1.14 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:21:44 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 41.855 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 41.855 ms
Loss rate: 0.70%
```
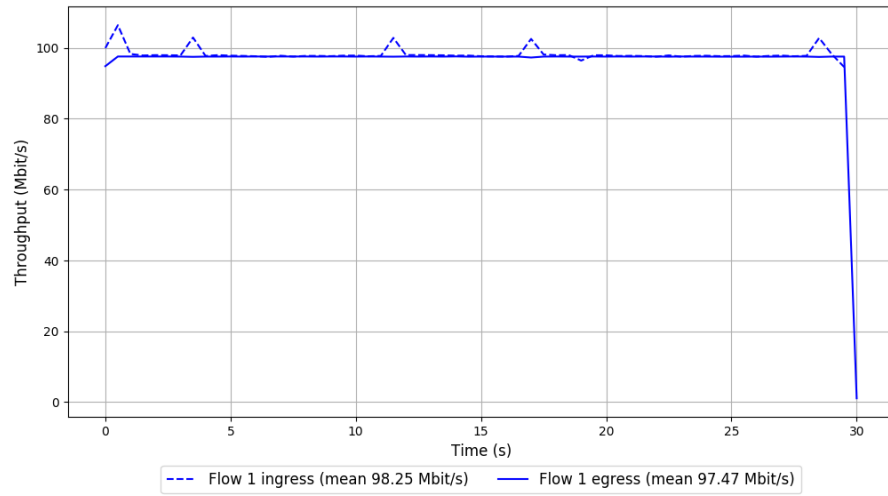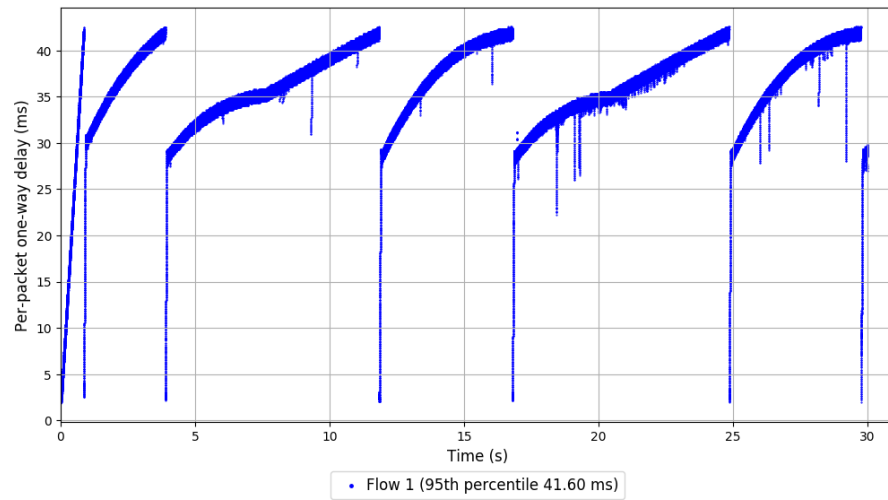
Run 6: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 98.27 Mbit/s) ---- Flow 1 egress (mean 97.49 Mbit/s) ——

Flow 1 (95th percentile 41.85 ms)

```
Run 7: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 20:52:49 +0000
End at: Sun, 16 Jul 2017 20:53:19 +0000
Local clock offset: -2.753 ms
Remote clock offset: 1.598 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:21:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 41.637 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 41.637 ms
Loss rate: 0.72%
```
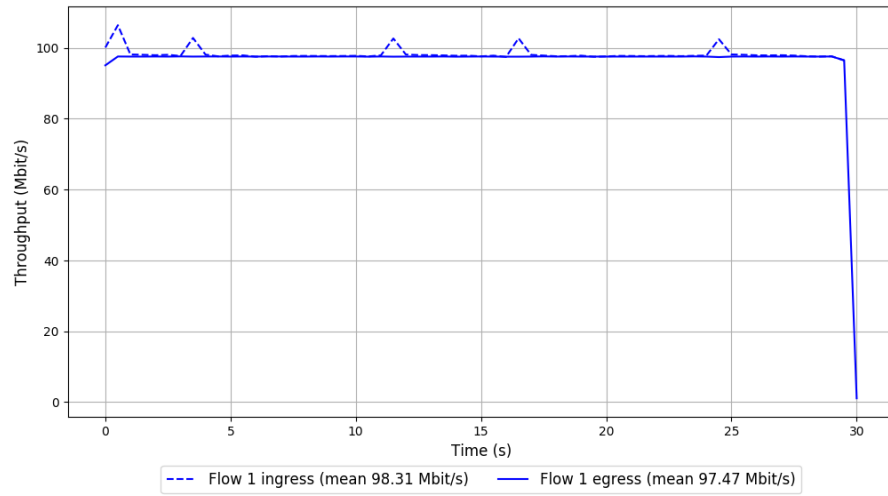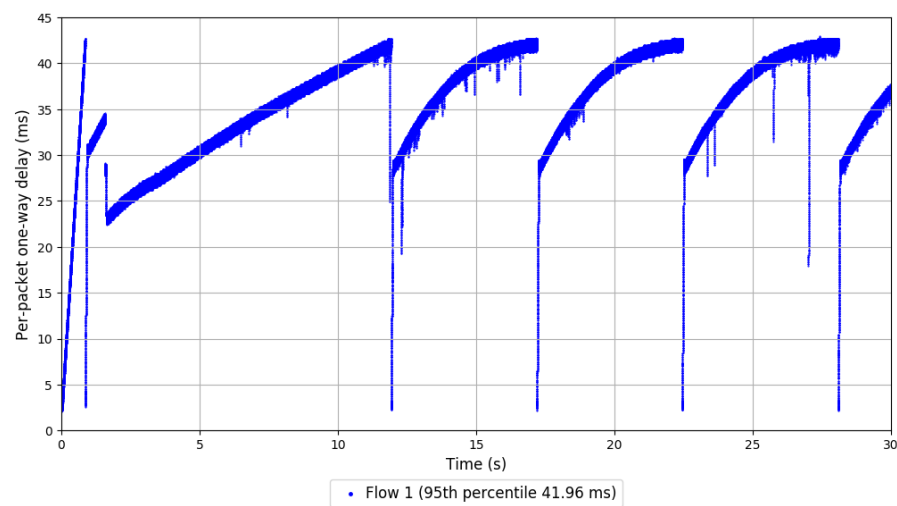
Run 7: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 98.25 Mbit/s)   Flow 1 egress (mean 97.47 Mbit/s)

Flow 1 (95th percentile 41.64 ms)

```
Run 8: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 21:09:41 +0000
End at: Sun, 16 Jul 2017 21:10:11 +0000
Local clock offset: -2.999 ms
Remote clock offset: 2.267 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:21:57 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 41.602 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 41.602 ms
Loss rate: 0.78%
```
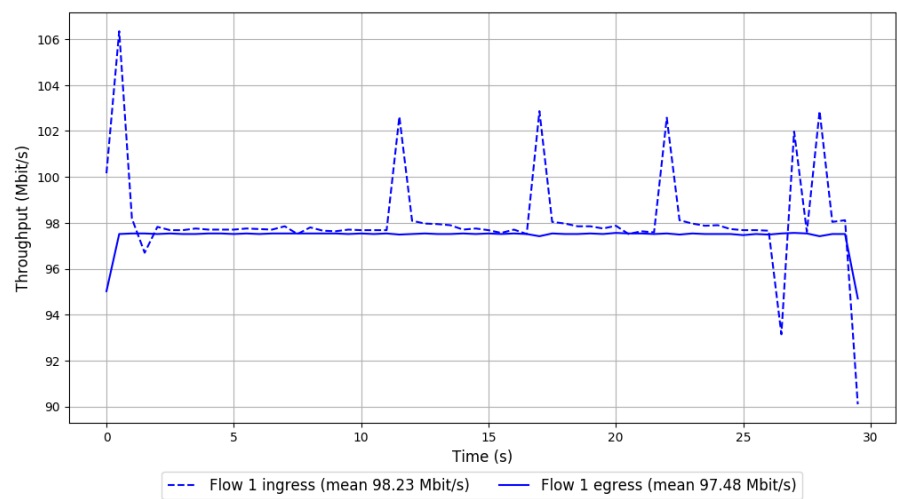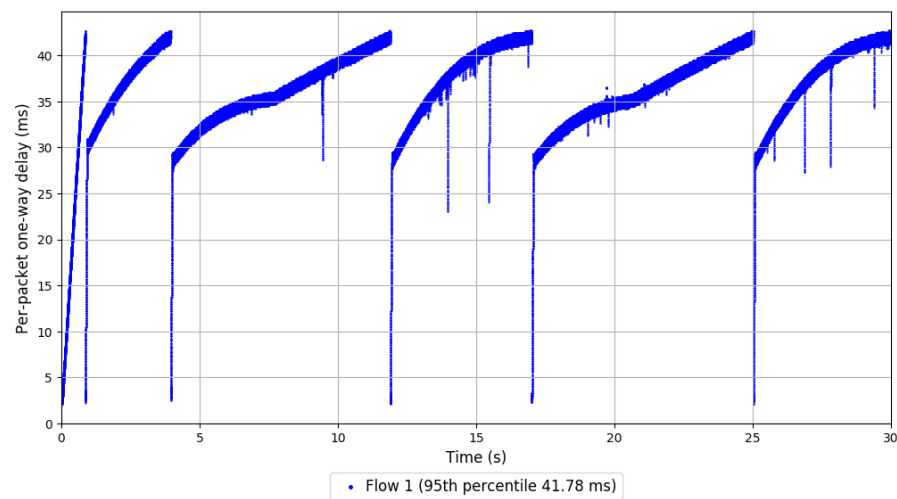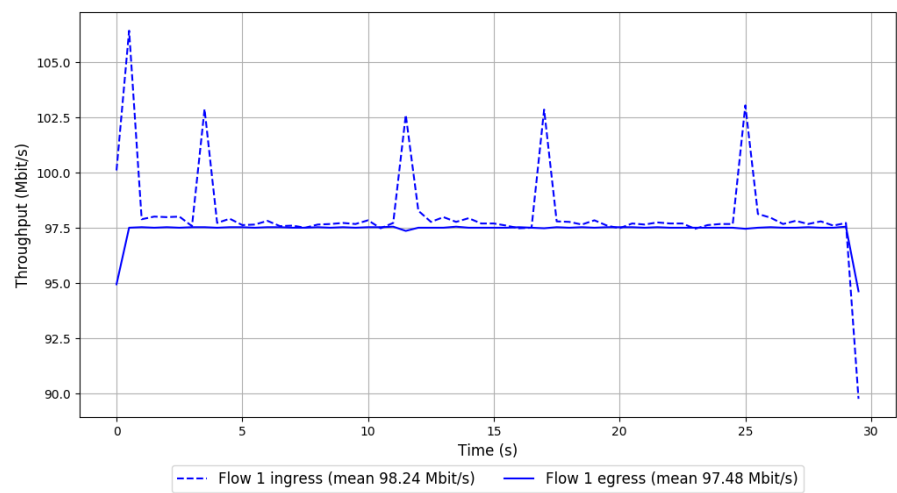
Run 8: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 98.31 Mbit/s)   Flow 1 egress (mean 97.47 Mbit/s)

Flow 1 (95th percentile 41.60 ms)

```
Run 9: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 21:26:34 +0000
End at: Sun, 16 Jul 2017 21:27:04 +0000
Local clock offset: -3.413 ms
Remote clock offset: 2.208 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:22:09 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 41.964 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 41.964 ms
Loss rate: 0.72%
```
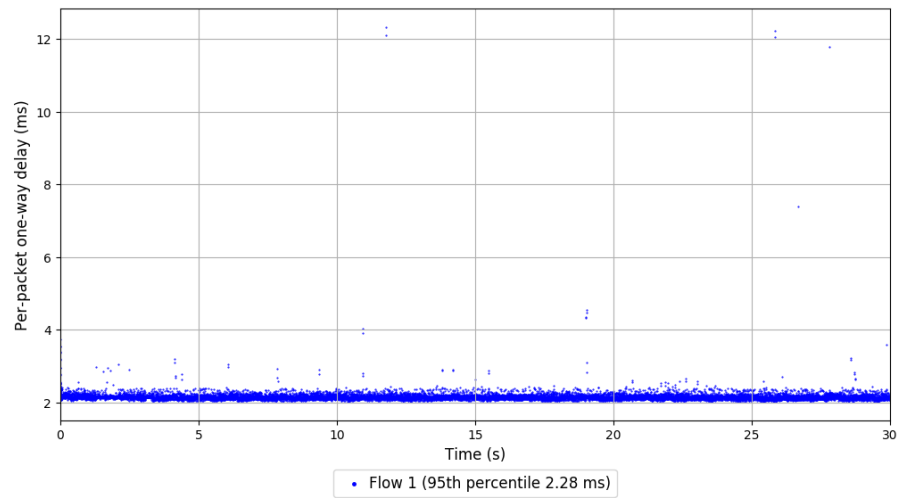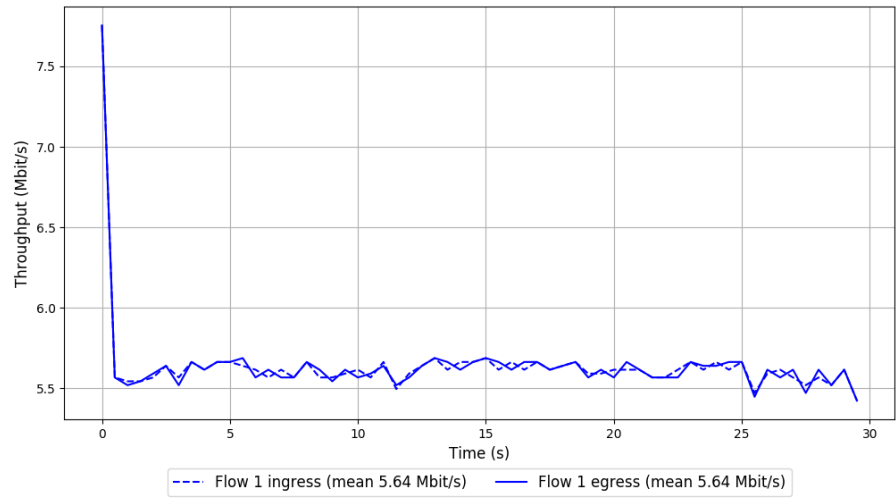
Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 98.23 Mbit/s)   Flow 1 egress (mean 97.48 Mbit/s)

Flow 1 (95th percentile 41.96 ms)

```
Run 10: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 21:43:30 +0000
End at: Sun, 16 Jul 2017 21:44:00 +0000
Local clock offset: -3.466 ms
Remote clock offset: 1.979 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:22:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 41.780 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 41.780 ms
Loss rate: 0.72%
```
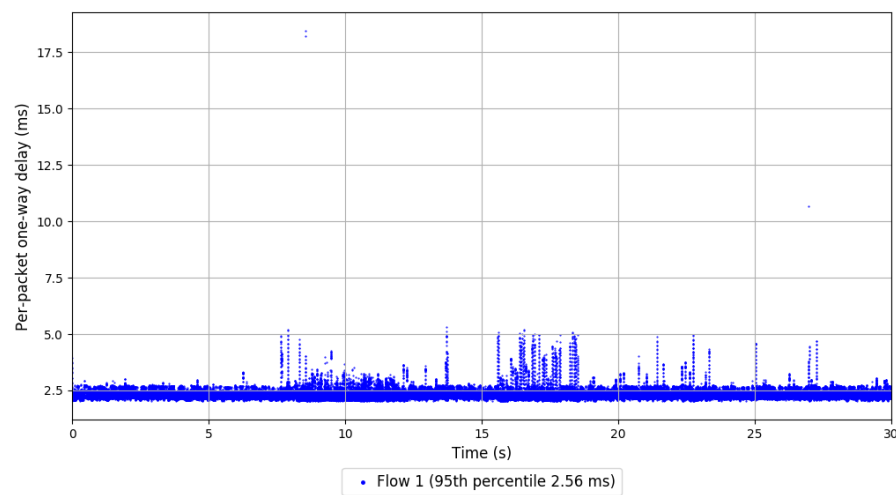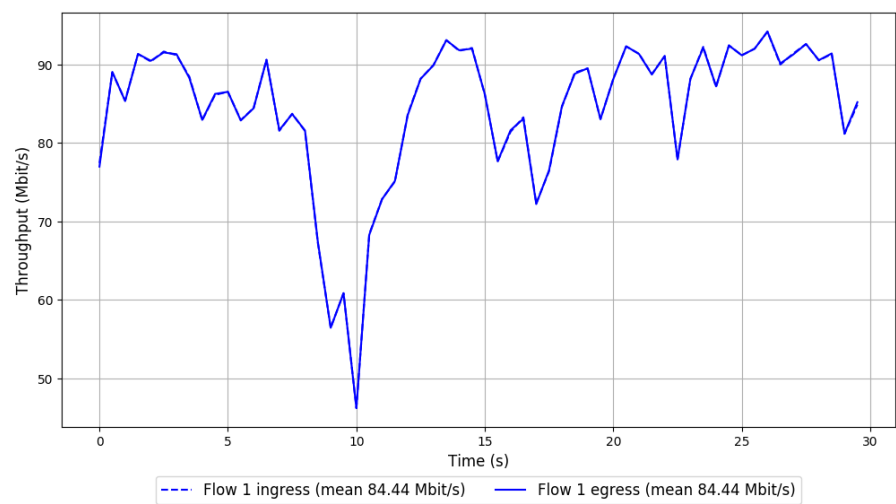
Run 10: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 98.24 Mbit/s)   Flow 1 egress (mean 97.48 Mbit/s)

Flow 1 (95th percentile 41.78 ms)

```
Run 1: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 19:17:00 +0000
End at: Sun, 16 Jul 2017 19:17:30 +0000
Local clock offset: -1.304 ms
Remote clock offset: -0.761 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:22:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.64 Mbit/s
95th percentile per-packet one-way delay: 2.283 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.64 Mbit/s
95th percentile per-packet one-way delay: 2.283 ms
Loss rate: 0.00%
```
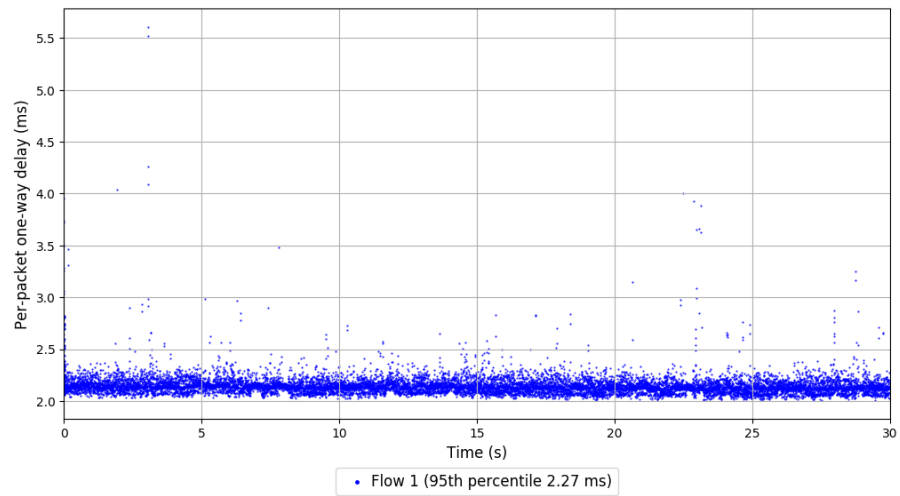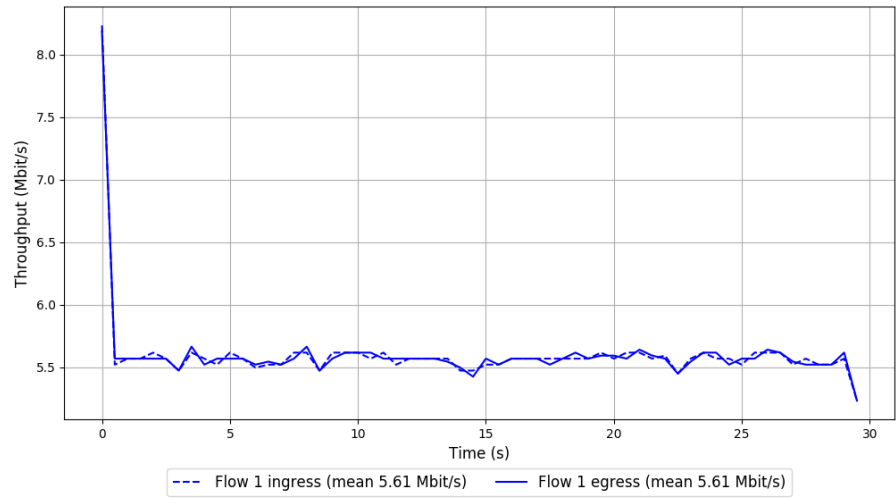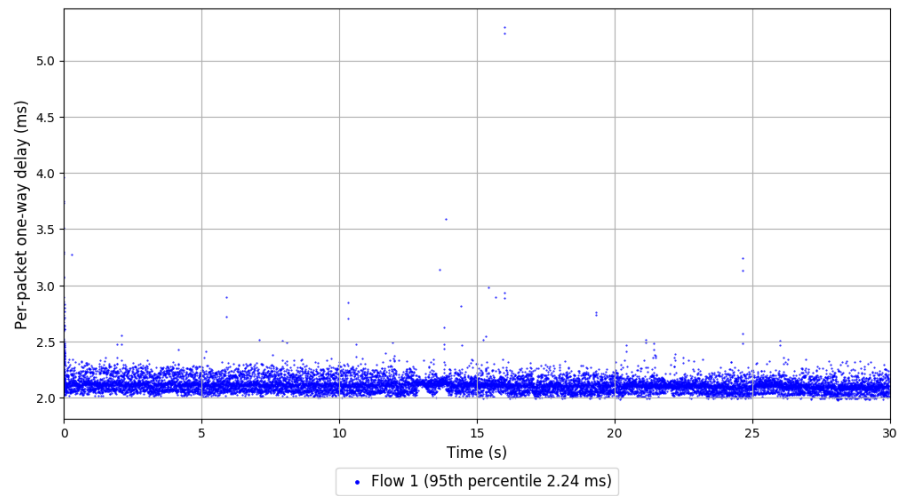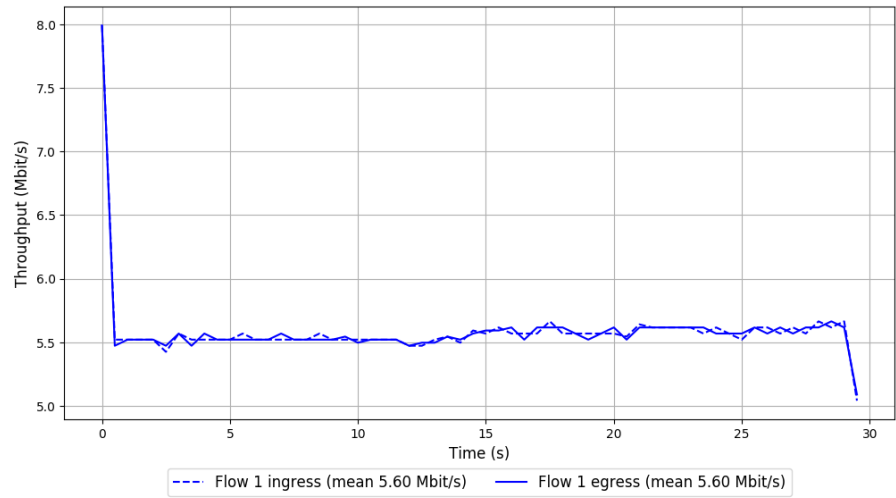
Run 1: Report of KohoCC — Data Link

```
Run 2: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 19:33:52 +0000
End at: Sun, 16 Jul 2017 19:34:22 +0000
Local clock offset: -1.578 ms
Remote clock offset: -0.721 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:22:24 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.44 Mbit/s
95th percentile per-packet one-way delay: 2.558 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.44 Mbit/s
95th percentile per-packet one-way delay: 2.558 ms
Loss rate: 0.00%
```

Run 2: Report of KohoCC — Data Link

```
Run 3: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 19:50:55 +0000
End at: Sun, 16 Jul 2017 19:51:25 +0000
Local clock offset: -1.756 ms
Remote clock offset: -0.44 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:22:24 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 2.265 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 2.265 ms
Loss rate: 0.00%
```
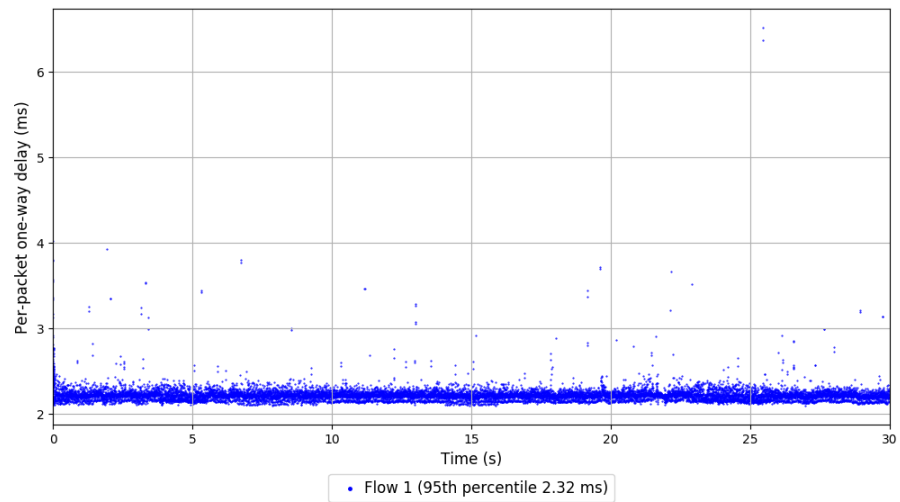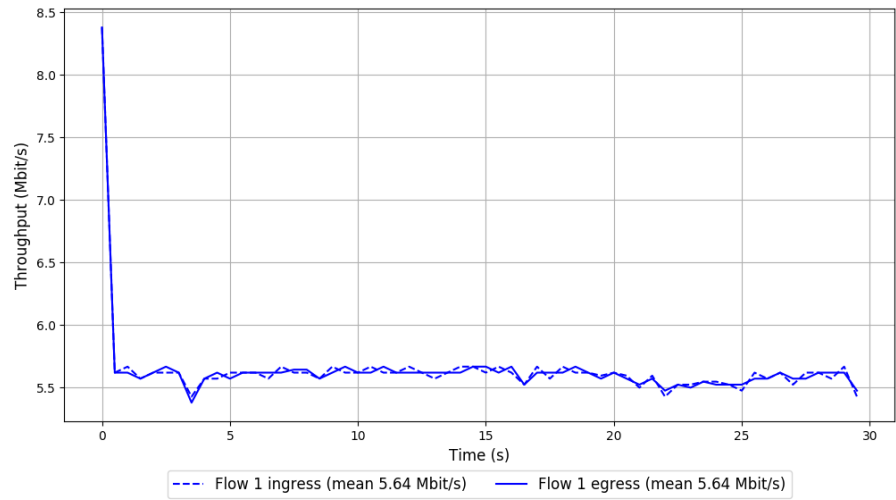
Run 3: Report of KohoCC — Data Link

```
Run 4: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 20:07:47 +0000
End at: Sun, 16 Jul 2017 20:08:17 +0000
Local clock offset: -2.005 ms
Remote clock offset: 0.428 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:22:24 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.60 Mbit/s
95th percentile per-packet one-way delay: 2.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.60 Mbit/s
95th percentile per-packet one-way delay: 2.241 ms
Loss rate: 0.00%
```
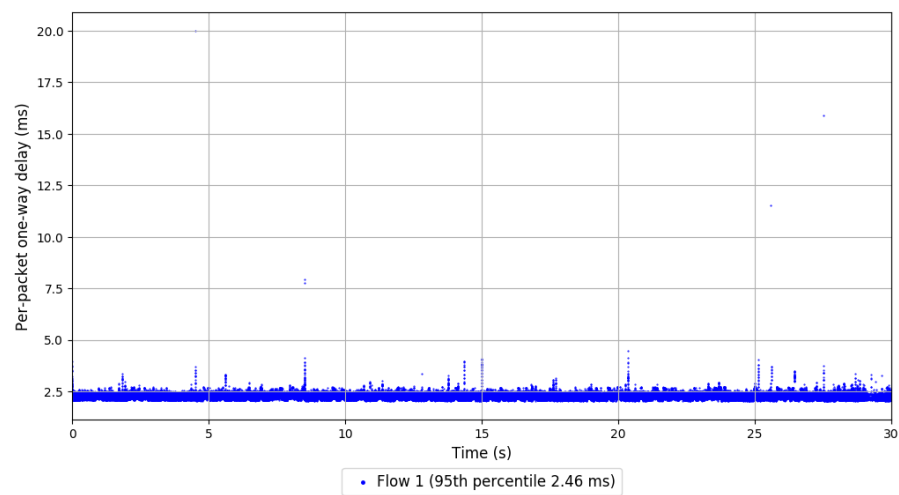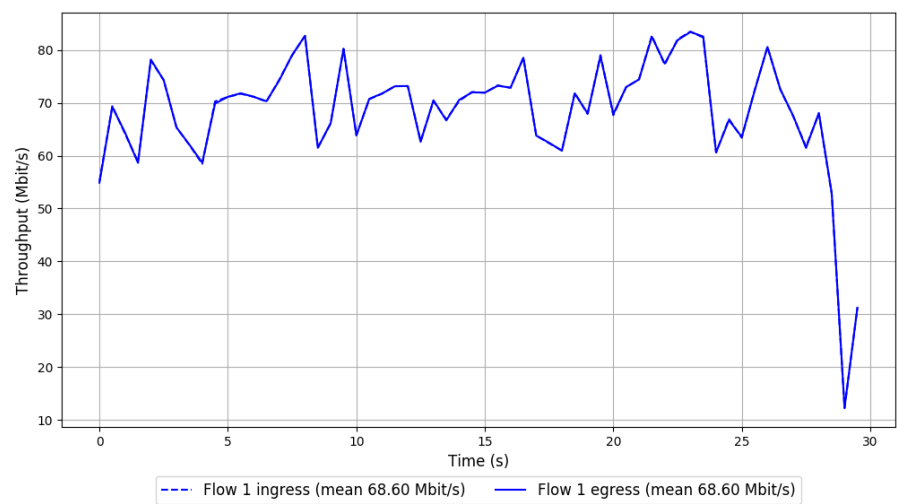
Run 4: Report of KohoCC — Data Link

Flow 1 ingress (mean 5.60 Mbit/s)   Flow 1 egress (mean 5.60 Mbit/s)

Flow 1 (95th percentile 2.24 ms)

```
Run 5: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 20:24:40 +0000
End at: Sun, 16 Jul 2017 20:25:10 +0000
Local clock offset: -2.378 ms
Remote clock offset: 0.997 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:22:24 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.64 Mbit/s
95th percentile per-packet one-way delay: 2.318 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.64 Mbit/s
95th percentile per-packet one-way delay: 2.318 ms
Loss rate: 0.00%
```
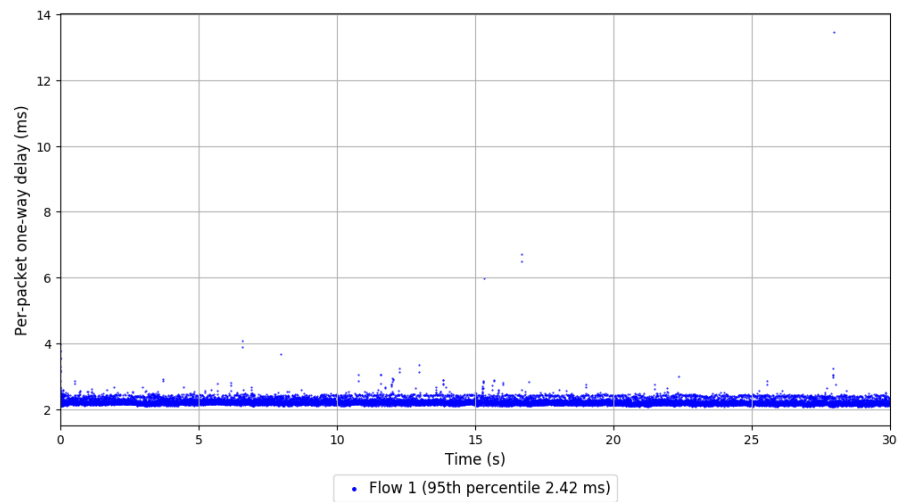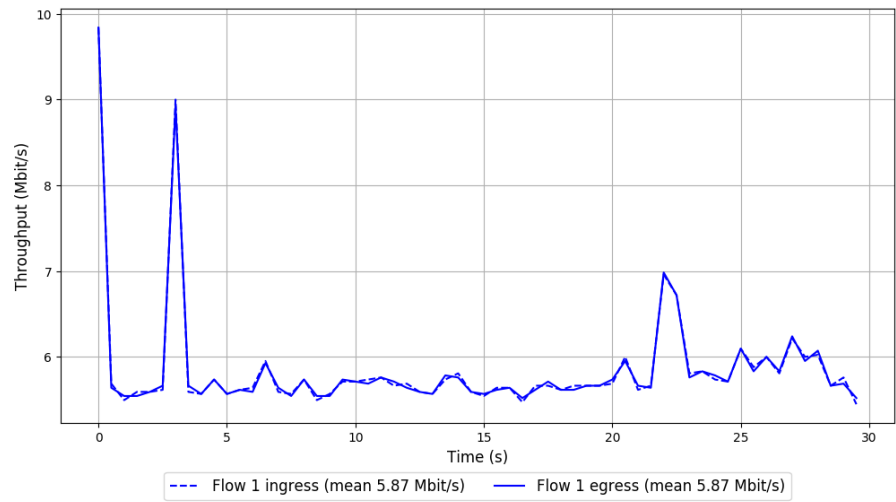
Run 5: Report of KohoCC — Data Link

Flow 1 ingress (mean 5.64 Mbit/s)   Flow 1 egress (mean 5.64 Mbit/s)

Flow 1 (95th percentile 2.32 ms)

```
Run 6: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 20:41:32 +0000
End at: Sun, 16 Jul 2017 20:42:02 +0000
Local clock offset: -2.572 ms
Remote clock offset: 1.233 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:22:25 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.60 Mbit/s
95th percentile per-packet one-way delay: 2.461 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.60 Mbit/s
95th percentile per-packet one-way delay: 2.461 ms
Loss rate: 0.00%
```
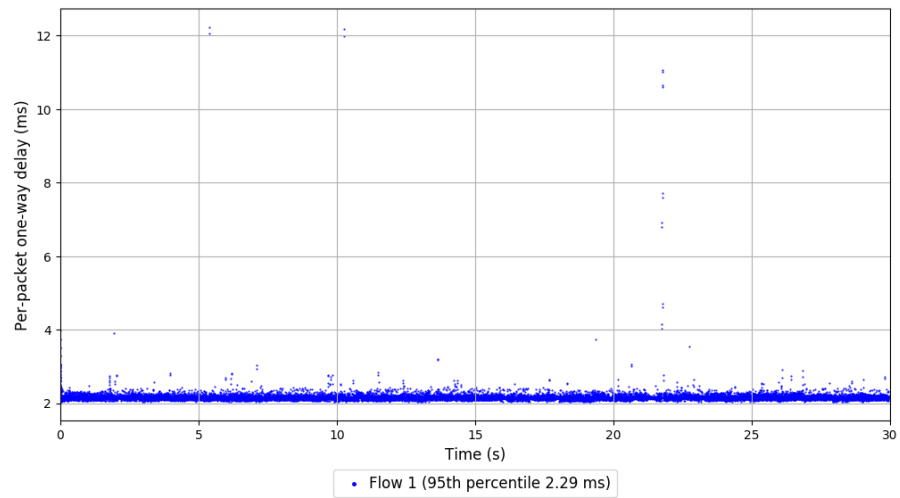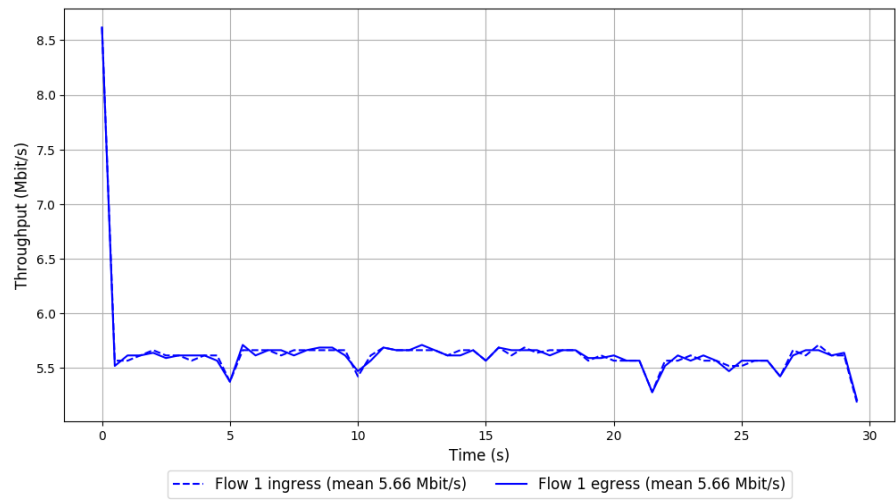
Run 6: Report of KohoCC — Data Link

Flow 1 ingress (mean 68.60 Mbit/s) —— Flow 1 egress (mean 68.60 Mbit/s)

Flow 1 (95th percentile 2.46 ms)

```
Run 7: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 20:58:23 +0000
End at: Sun, 16 Jul 2017 20:58:53 +0000
Local clock offset: -2.978 ms
Remote clock offset: 1.78 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:22:25 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.87 Mbit/s
95th percentile per-packet one-way delay: 2.422 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.87 Mbit/s
95th percentile per-packet one-way delay: 2.422 ms
Loss rate: 0.00%
```
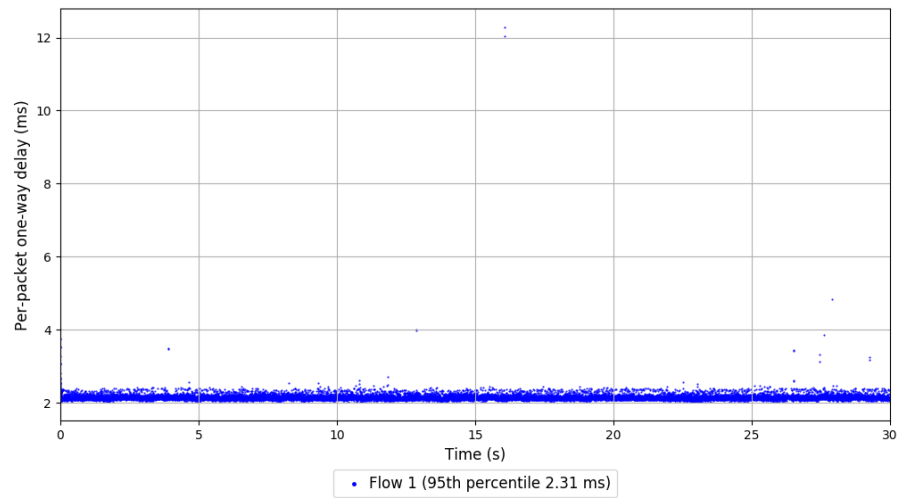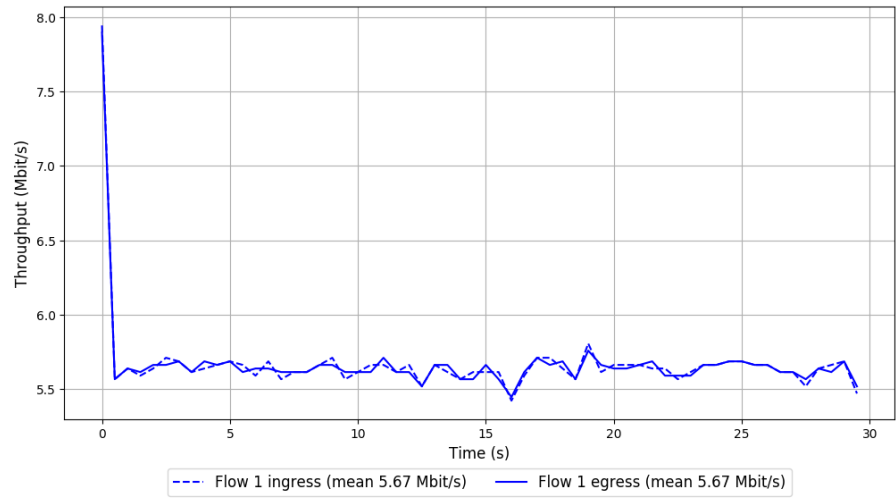
Run 7: Report of KohoCC — Data Link

```
Run 8: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 21:15:15 +0000
End at: Sun, 16 Jul 2017 21:15:45 +0000
Local clock offset: -3.141 ms
Remote clock offset: 2.36 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:22:27 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.66 Mbit/s
95th percentile per-packet one-way delay: 2.292 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.66 Mbit/s
95th percentile per-packet one-way delay: 2.292 ms
Loss rate: 0.00%
```
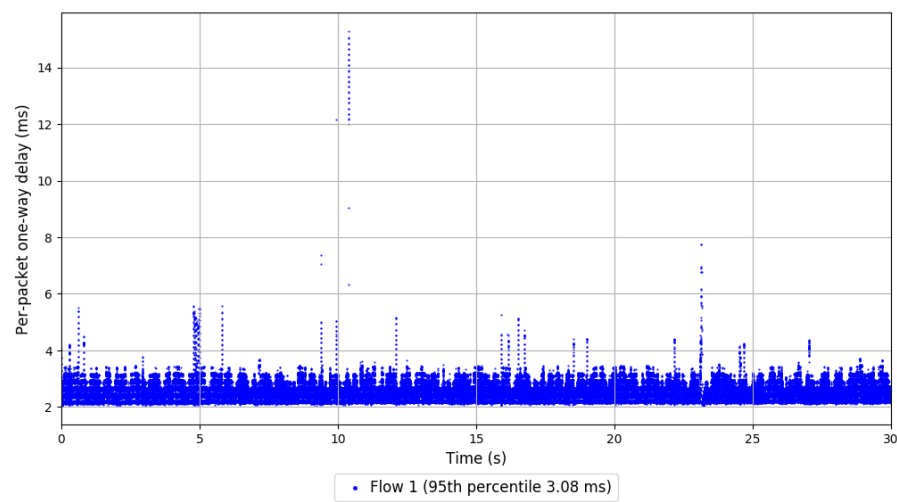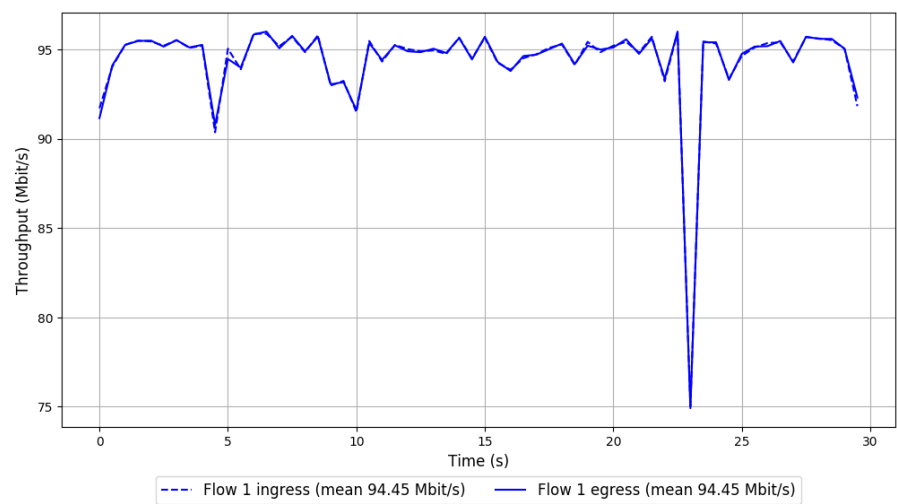
Run 8: Report of KohoCC — Data Link

Flow 1 ingress (mean 5.66 Mbit/s)   Flow 1 egress (mean 5.66 Mbit/s)

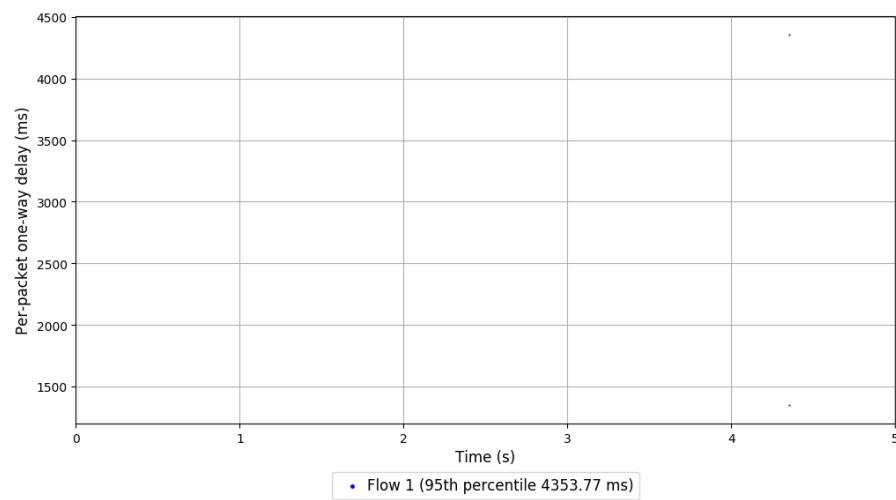Flow 1 (95th percentile 2.29 ms)

```
Run 9: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 21:32:07 +0000
End at: Sun, 16 Jul 2017 21:32:37 +0000
Local clock offset: -3.454 ms
Remote clock offset: 2.121 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:22:27 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.67 Mbit/s
95th percentile per-packet one-way delay: 2.306 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.67 Mbit/s
95th percentile per-packet one-way delay: 2.306 ms
Loss rate: 0.00%
```

Run 9: Report of KohoCC — Data Link
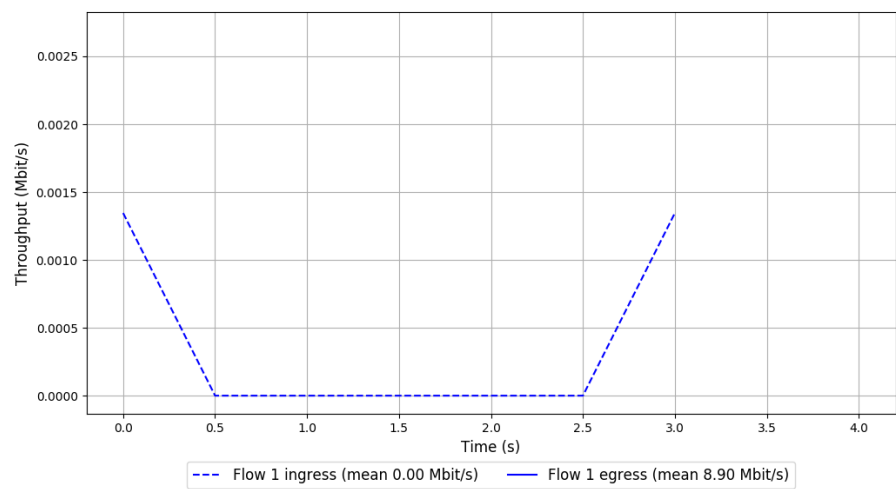
```
Run 10: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 21:49:04 +0000
End at: Sun, 16 Jul 2017 21:49:34 +0000
Local clock offset: -3.394 ms
Remote clock offset: 1.705 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:22:39 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.45 Mbit/s
95th percentile per-packet one-way delay: 3.076 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.45 Mbit/s
95th percentile per-packet one-way delay: 3.076 ms
Loss rate: 0.00%
```
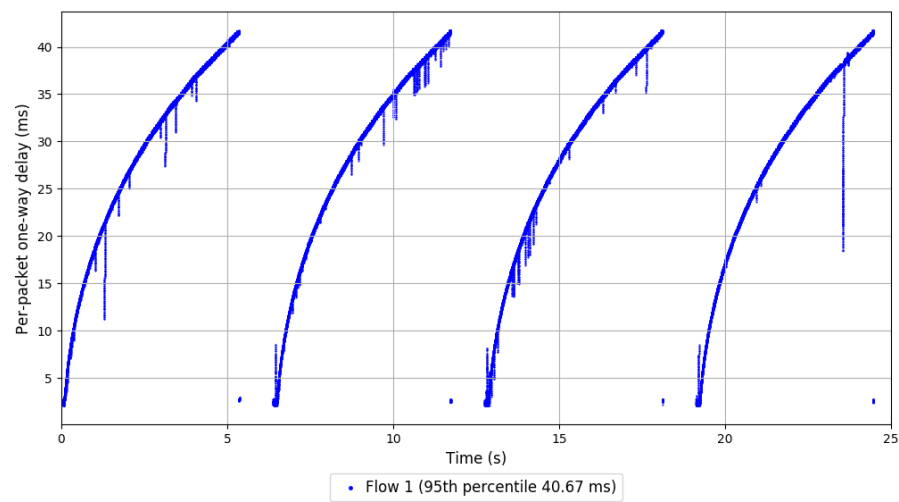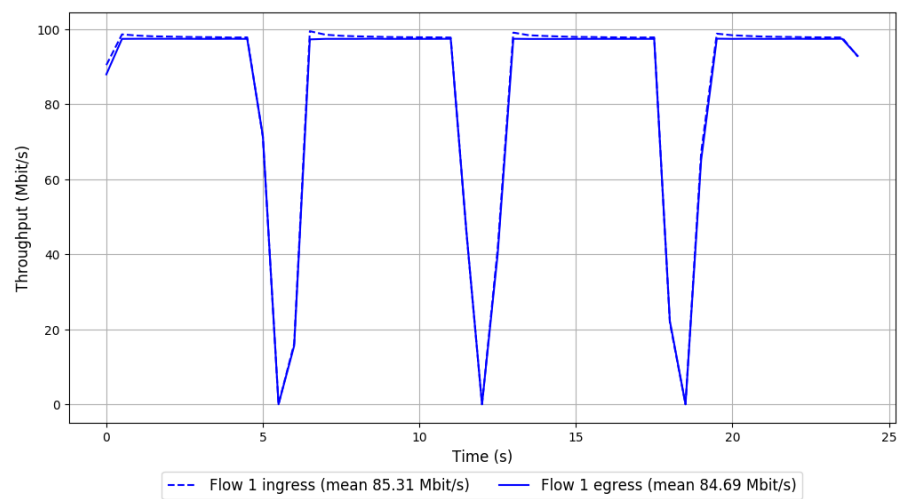
Run 10: Report of KohoCC — Data Link
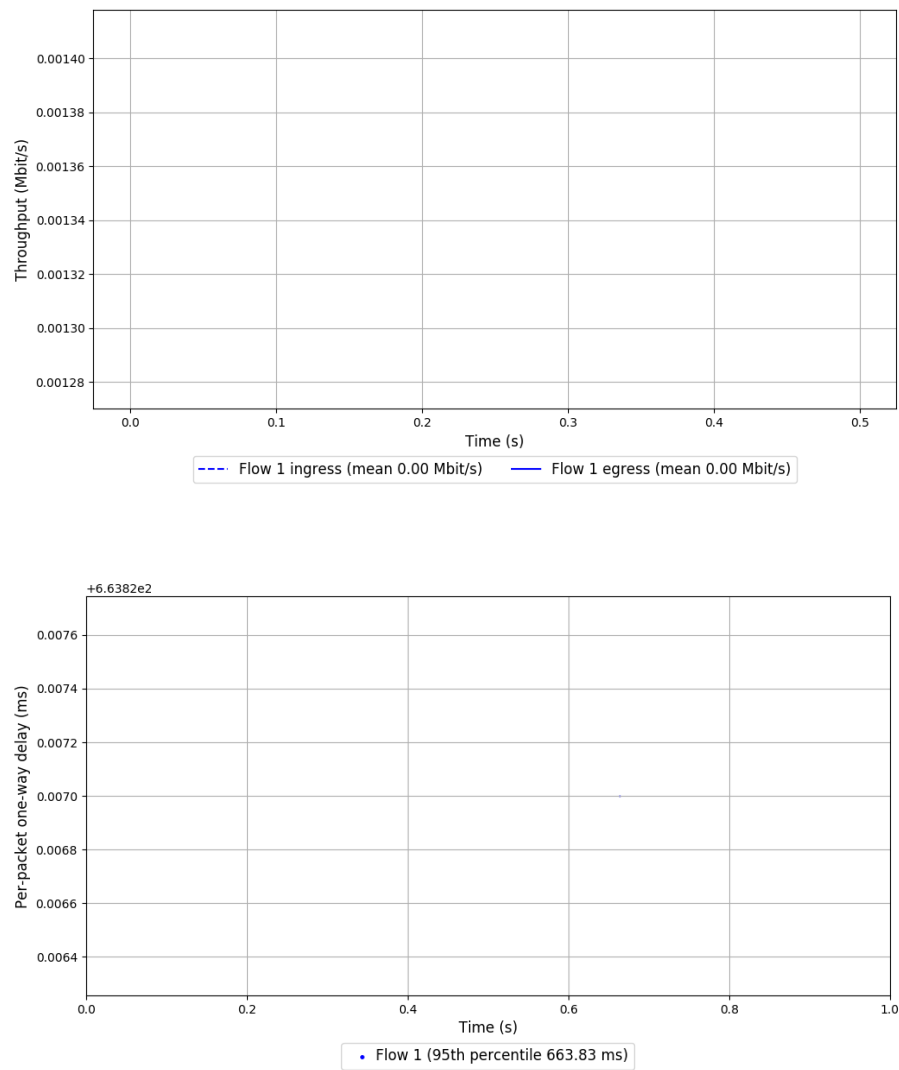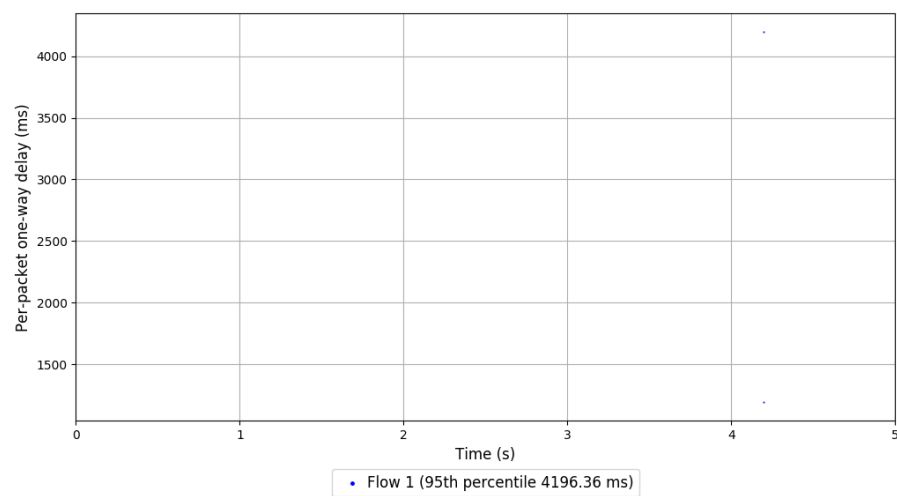
Run 1: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 19:18:04 +0000
End at: Sun, 16 Jul 2017 19:18:34 +0000
Local clock offset: -1.323 ms
Remote clock offset: -0.772 ms

Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 0.00 Mbit/s) ——— Flow 1 egress (mean 8.90 Mbit/s)

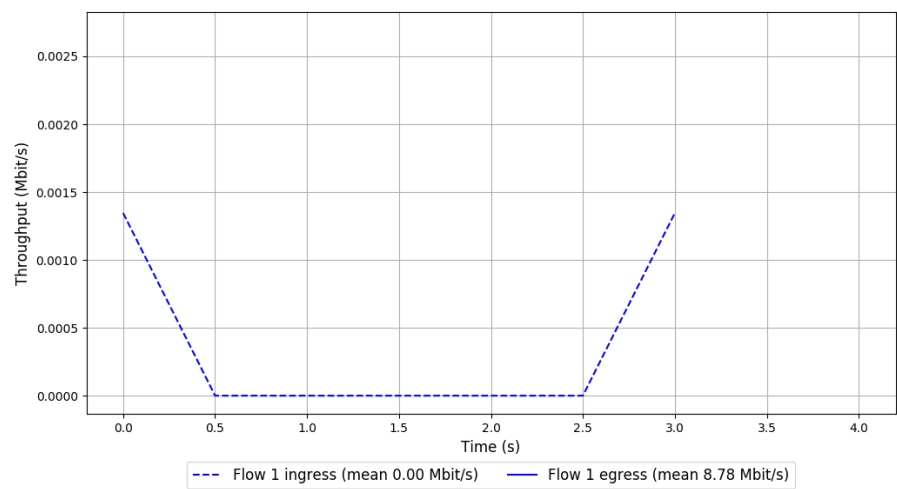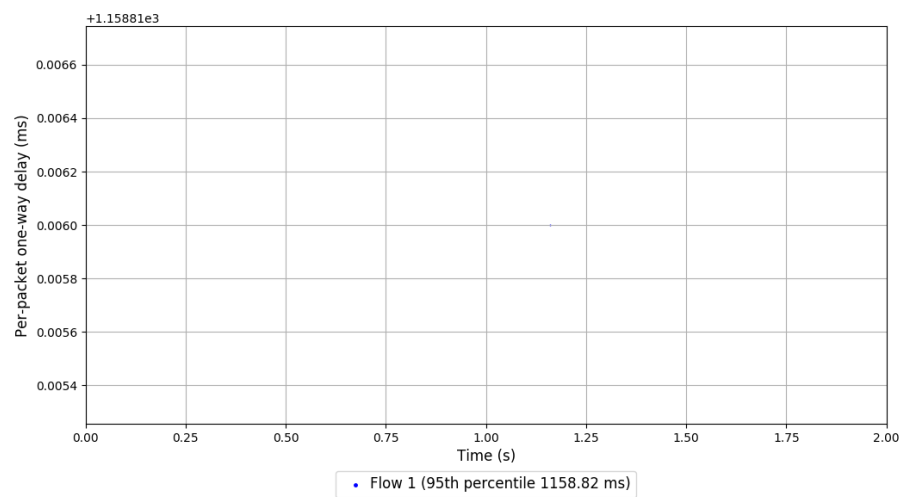• Flow 1 (95th percentile 4353.77 ms)

```
Run 2: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 19:35:01 +0000
End at: Sun, 16 Jul 2017 19:35:32 +0000
Local clock offset: -1.567 ms
Remote clock offset: -0.645 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:22:39 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.69 Mbit/s
95th percentile per-packet one-way delay: 40.675 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 84.69 Mbit/s
95th percentile per-packet one-way delay: 40.675 ms
Loss rate: 0.73%
```

Run 2: Report of LEDBAT — Data Link
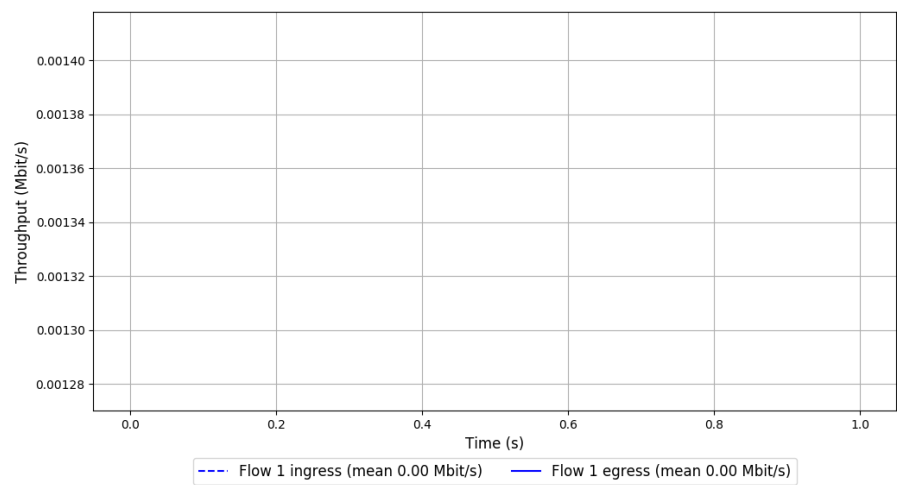
Run 3: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 19:51:59 +0000
End at: Sun, 16 Jul 2017 19:52:29 +0000
Local clock offset: -1.781 ms
Remote clock offset: -0.405 ms

Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 0.00 Mbit/s) ——— Flow 1 egress (mean 0.00 Mbit/s)

• Flow 1 (95th percentile 663.83 ms)
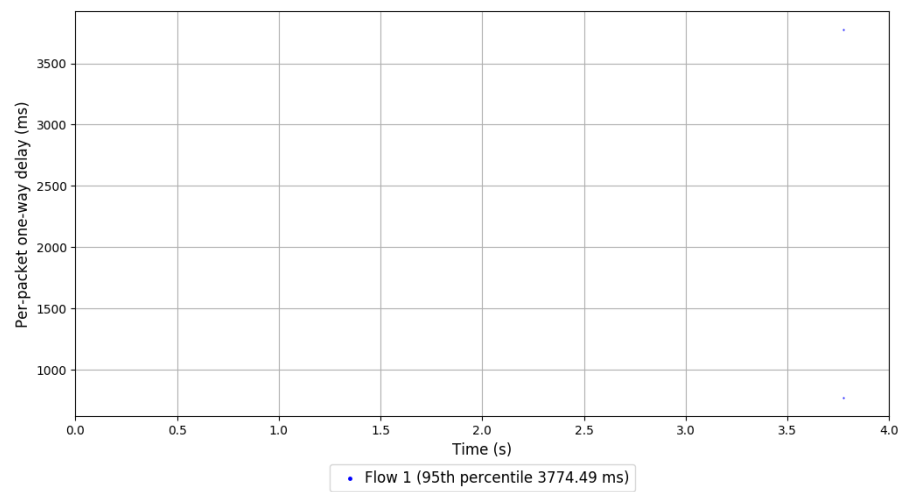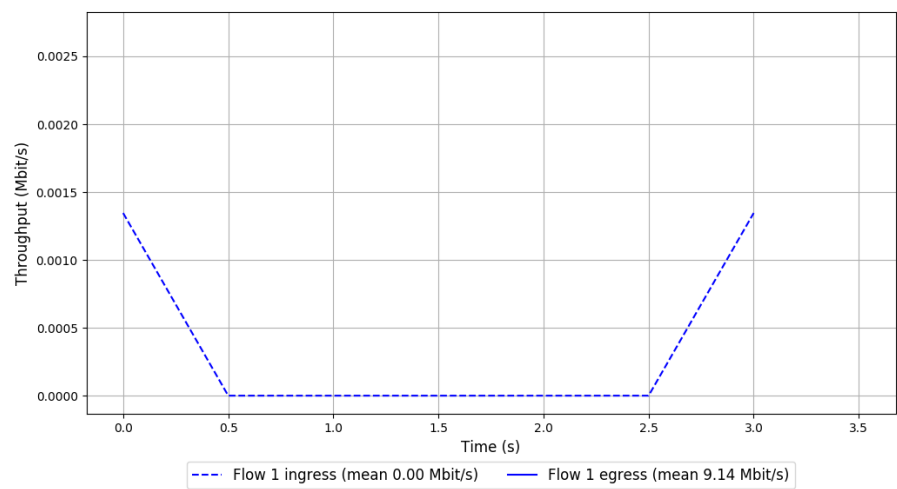
Run 4: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 20:08:51 +0000
End at: Sun, 16 Jul 2017 20:09:22 +0000
Local clock offset: -2.029 ms
Remote clock offset: 0.438 ms

Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 0.00 Mbit/s) --- Flow 1 egress (mean 8.78 Mbit/s)

• Flow 1 (95th percentile 4196.36 ms)
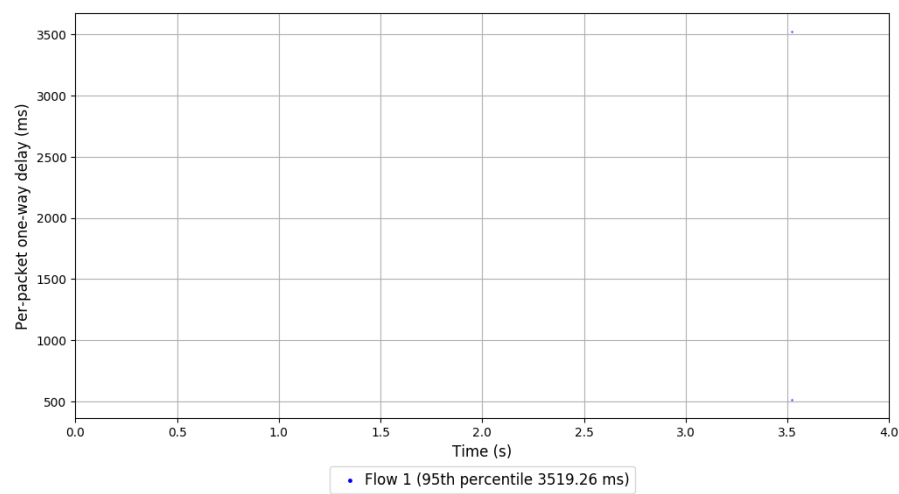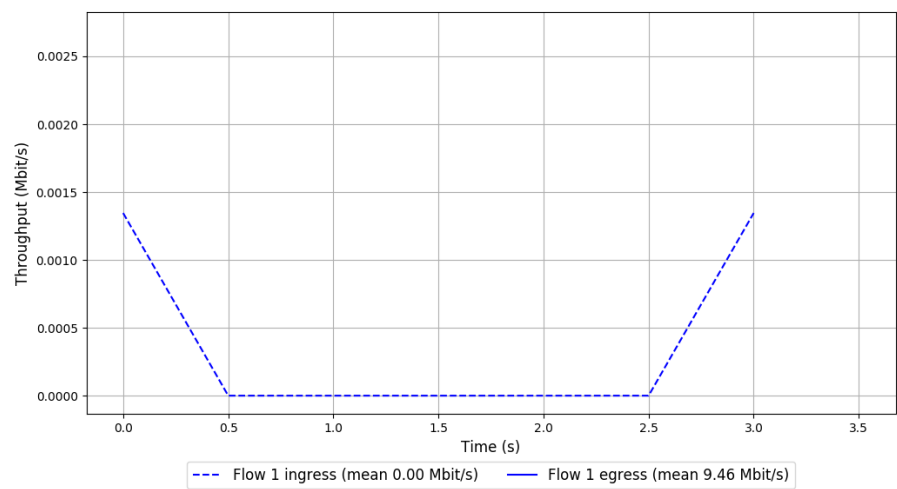
Run 5: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 20:25:44 +0000
End at: Sun, 16 Jul 2017 20:26:14 +0000
Local clock offset: -2.341 ms
Remote clock offset: 0.947 ms

Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 0.00 Mbit/s)   Flow 1 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 1158.82 ms)

```
Run 6: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 20:42:41 +0000
End at: Sun, 16 Jul 2017 20:43:11 +0000
Local clock offset: -2.597 ms
Remote clock offset: 1.3 ms
```

Run 6: Report of LEDBAT — Data Link

Flow 1 ingress (mean 0.00 Mbit/s) —— Flow 1 egress (mean 0.00 Mbit/s)

• Flow 1 (95th percentile 374.33 ms)

Run 7: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 20:59:27 +0000
End at: Sun, 16 Jul 2017 20:59:57 +0000
Local clock offset: -2.835 ms
Remote clock offset: 1.853 ms

Run 7: Report of LEDBAT — Data Link

Flow 1 ingress (mean 0.00 Mbit/s)   Flow 1 egress (mean 9.14 Mbit/s)

• Flow 1 (95th percentile 3774.49 ms)

Run 8: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 21:16:19 +0000
End at: Sun, 16 Jul 2017 21:16:49 +0000
Local clock offset: -3.108 ms
Remote clock offset: 2.298 ms

Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 0.00 Mbit/s)   Flow 1 egress (mean 9.46 Mbit/s)

Flow 1 (95th percentile 3519.26 ms)

```
Run 9: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 21:33:11 +0000
End at: Sun, 16 Jul 2017 21:33:41 +0000
Local clock offset: -3.467 ms
Remote clock offset: 2.113 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:22:49 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.53 Mbit/s
95th percentile per-packet one-way delay: 40.389 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 84.53 Mbit/s
95th percentile per-packet one-way delay: 40.389 ms
Loss rate: 0.63%
```
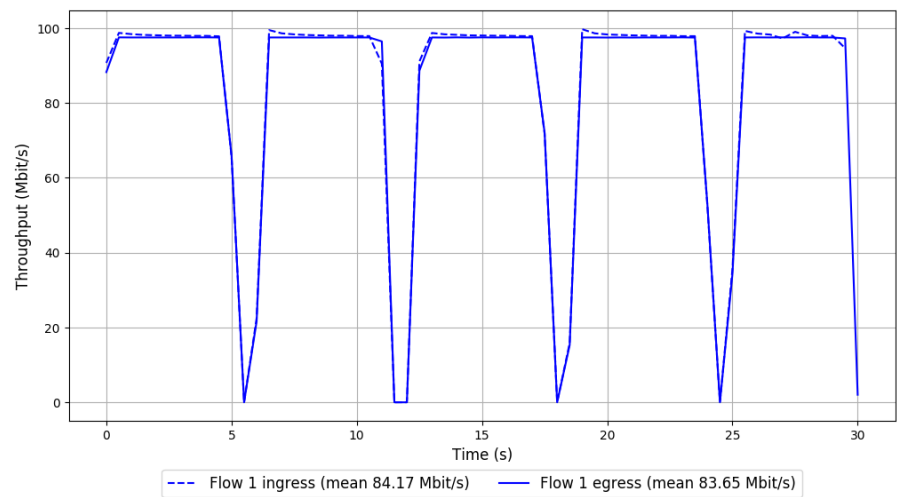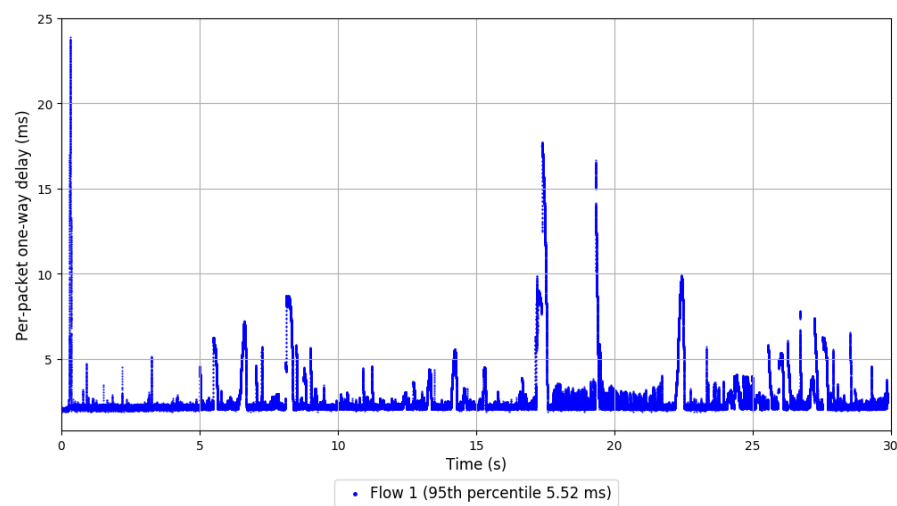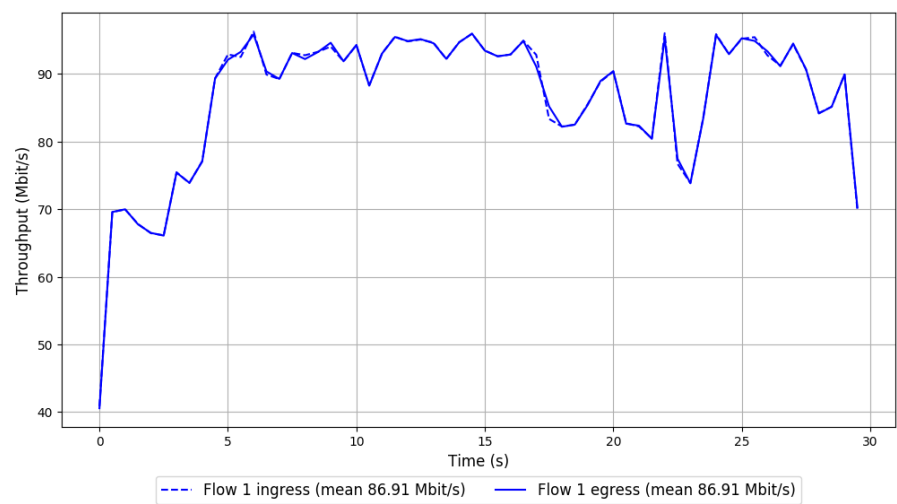
Run 9: Report of LEDBAT — Data Link

Flow 1 ingress (mean 85.14 Mbit/s)   Flow 1 egress (mean 84.53 Mbit/s)

Flow 1 (95th percentile 40.39 ms)

121

```
Run 10: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 21:50:15 +0000
End at: Sun, 16 Jul 2017 21:50:45 +0000
Local clock offset: -3.38 ms
Remote clock offset: 1.714 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:22:53 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.65 Mbit/s
95th percentile per-packet one-way delay: 40.281 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 83.65 Mbit/s
95th percentile per-packet one-way delay: 40.281 ms
Loss rate: 0.54%
```
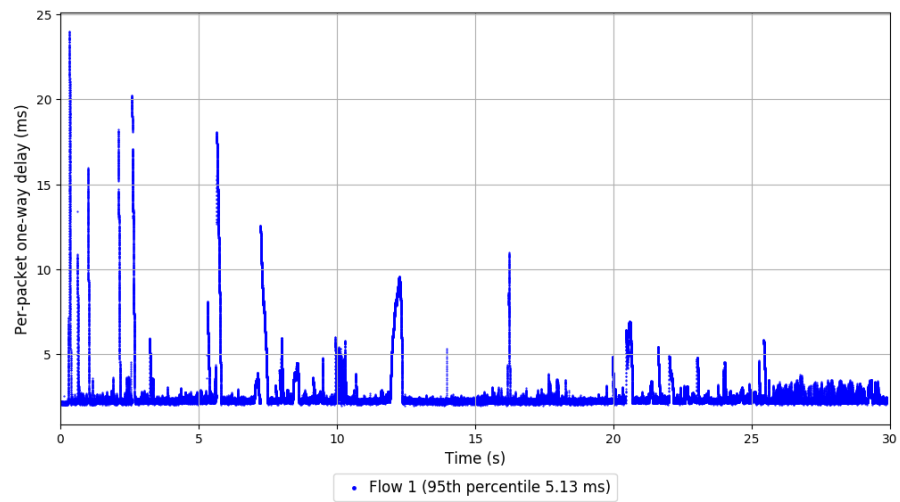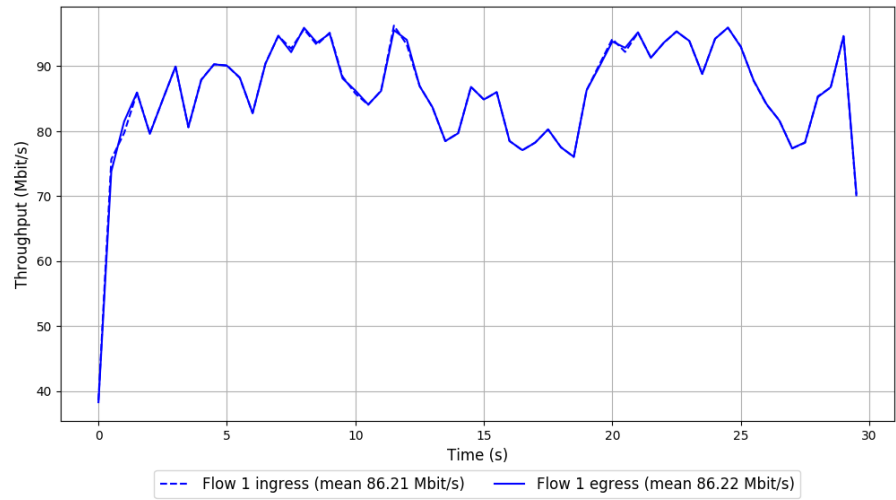
Run 10: Report of LEDBAT — Data Link

Flow 1 ingress (mean 84.17 Mbit/s) ----   Flow 1 egress (mean 83.65 Mbit/s) ——

Flow 1 (95th percentile 40.28 ms)

```
Run 1: Statistics of PCC

Start at: Sun, 16 Jul 2017 19:14:42 +0000
End at: Sun, 16 Jul 2017 19:15:12 +0000
Local clock offset: -1.265 ms
Remote clock offset: -0.793 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:23:04 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.91 Mbit/s
95th percentile per-packet one-way delay: 5.523 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.91 Mbit/s
95th percentile per-packet one-way delay: 5.523 ms
Loss rate: 0.00%
```
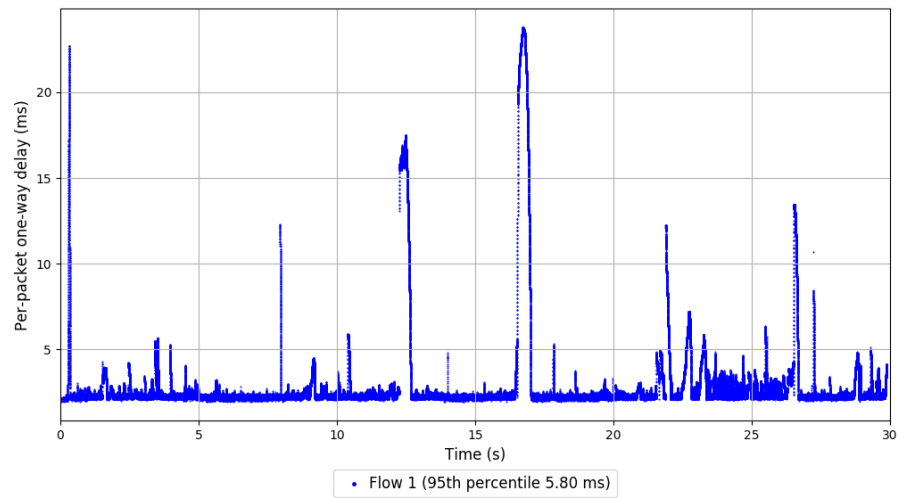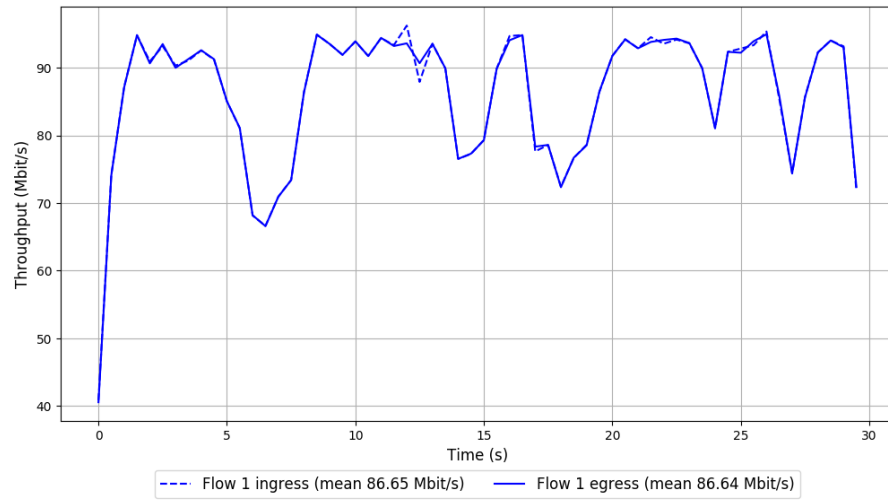
Run 1: Report of PCC — Data Link

Flow 1 ingress (mean 86.91 Mbit/s)   Flow 1 egress (mean 86.91 Mbit/s)

Flow 1 (95th percentile 5.52 ms)

125

```
Run 2: Statistics of PCC

Start at: Sun, 16 Jul 2017 19:31:34 +0000
End at: Sun, 16 Jul 2017 19:32:04 +0000
Local clock offset: -1.607 ms
Remote clock offset: -0.708 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:23:05 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.22 Mbit/s
95th percentile per-packet one-way delay: 5.129 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.22 Mbit/s
95th percentile per-packet one-way delay: 5.129 ms
Loss rate: 0.00%
```
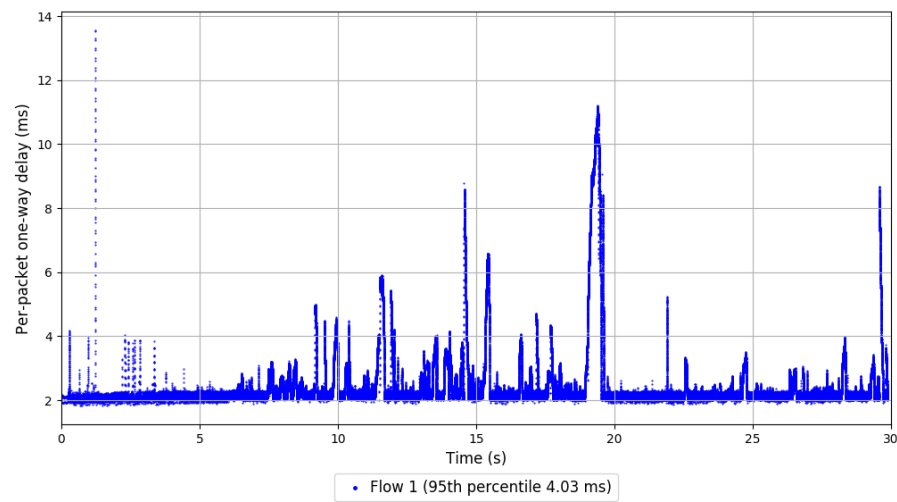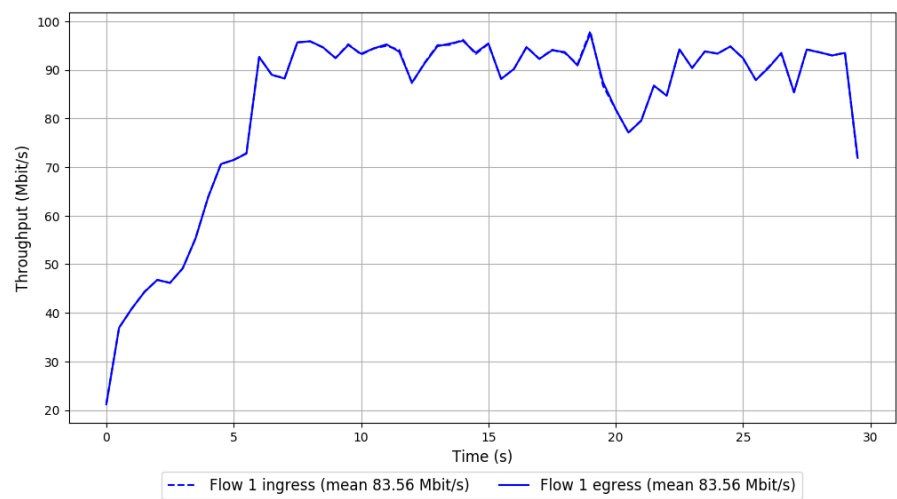
Run 2: Report of PCC — Data Link

127

```
Run 3: Statistics of PCC

Start at: Sun, 16 Jul 2017 19:48:37 +0000
End at: Sun, 16 Jul 2017 19:49:07 +0000
Local clock offset: -1.711 ms
Remote clock offset: -0.525 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:23:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.64 Mbit/s
95th percentile per-packet one-way delay: 5.797 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.64 Mbit/s
95th percentile per-packet one-way delay: 5.797 ms
Loss rate: 0.00%
```
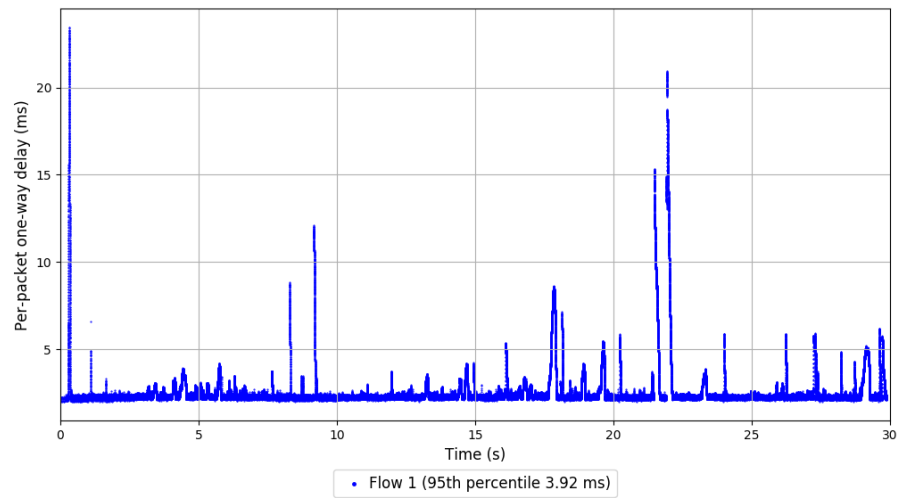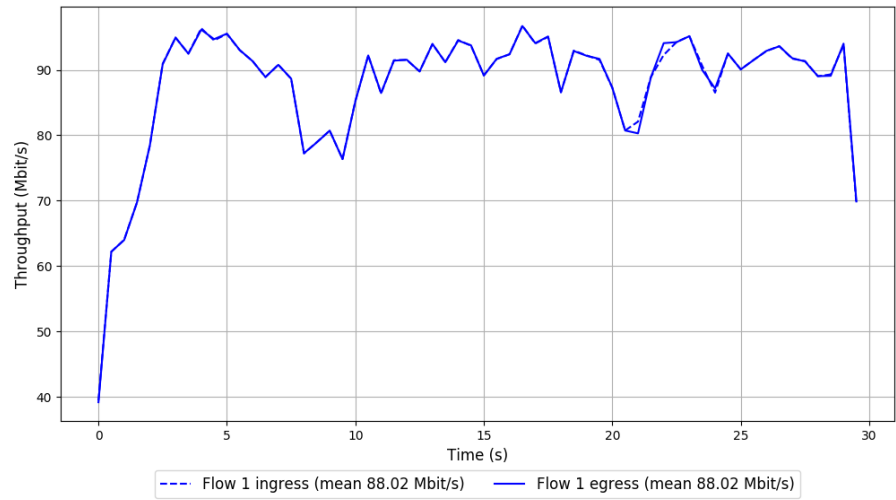
Run 3: Report of PCC — Data Link

129

```
Run 4: Statistics of PCC

Start at: Sun, 16 Jul 2017 20:05:30 +0000
End at: Sun, 16 Jul 2017 20:06:00 +0000
Local clock offset: -1.996 ms
Remote clock offset: 0.269 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:23:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.56 Mbit/s
95th percentile per-packet one-way delay: 4.031 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.56 Mbit/s
95th percentile per-packet one-way delay: 4.031 ms
Loss rate: 0.00%
```
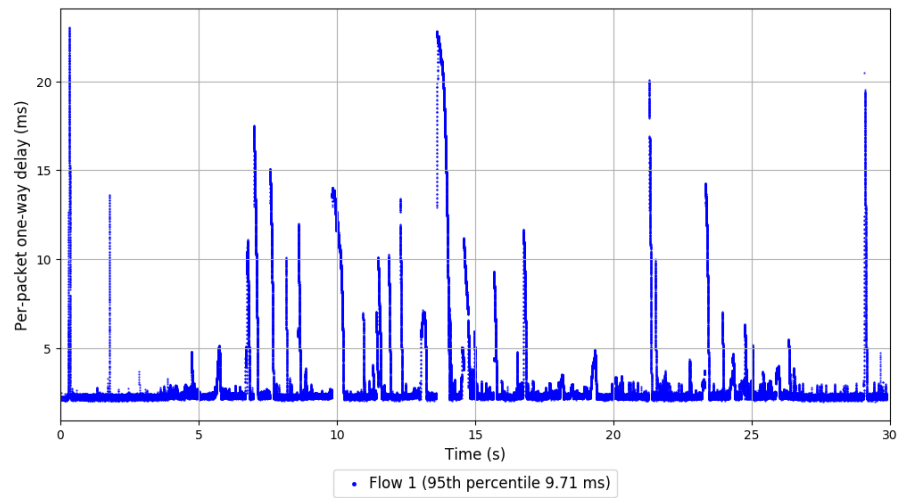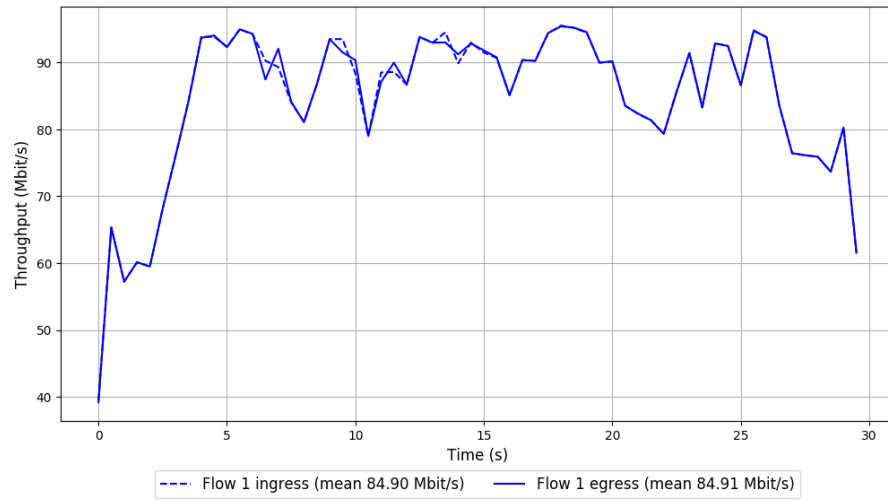
Run 4: Report of PCC — Data Link

Flow 1 ingress (mean 83.56 Mbit/s)   Flow 1 egress (mean 83.56 Mbit/s)

Flow 1 (95th percentile 4.03 ms)

```
Run 5: Statistics of PCC

Start at: Sun, 16 Jul 2017 20:22:22 +0000
End at: Sun, 16 Jul 2017 20:22:52 +0000
Local clock offset: -2.262 ms
Remote clock offset: 0.949 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:23:28 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 3.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 3.925 ms
Loss rate: 0.00%
```
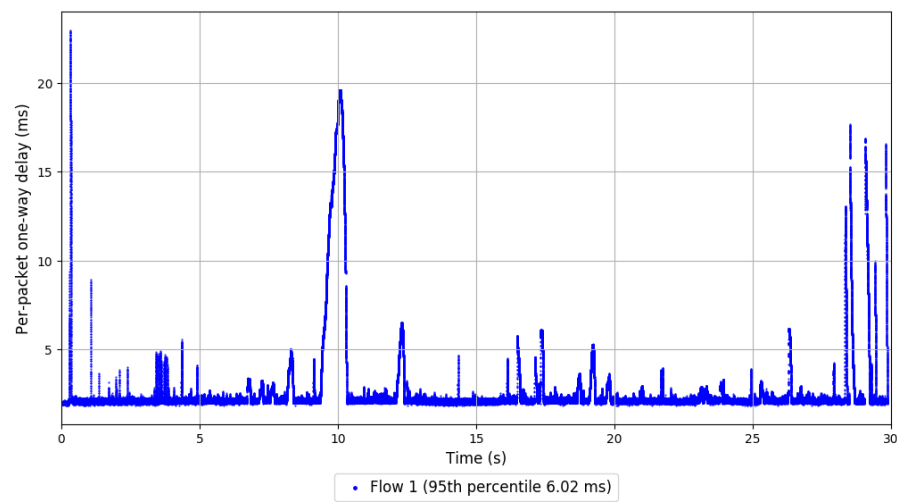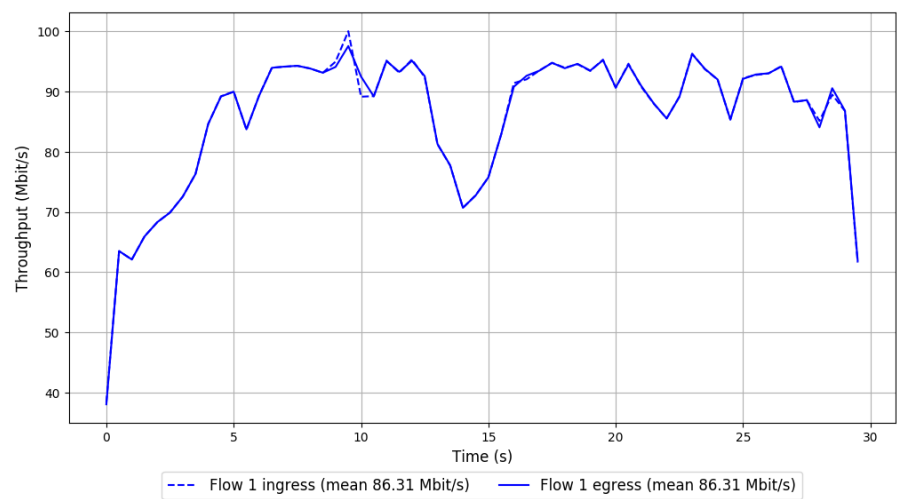
Run 5: Report of PCC — Data Link

Flow 1 ingress (mean 88.02 Mbit/s) —— Flow 1 egress (mean 88.02 Mbit/s)

Flow 1 (95th percentile 3.92 ms)

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```
Run 6: Statistics of PCC

Start at: Sun, 16 Jul 2017 20:39:15 +0000
End at: Sun, 16 Jul 2017 20:39:45 +0000
Local clock offset: -2.625 ms
Remote clock offset: 1.137 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:23:29 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 9.709 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 9.709 ms
Loss rate: 0.00%
```
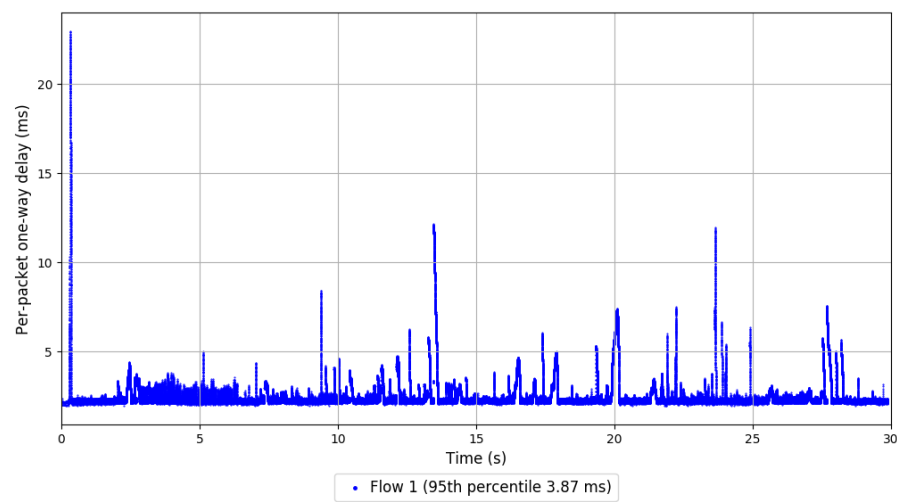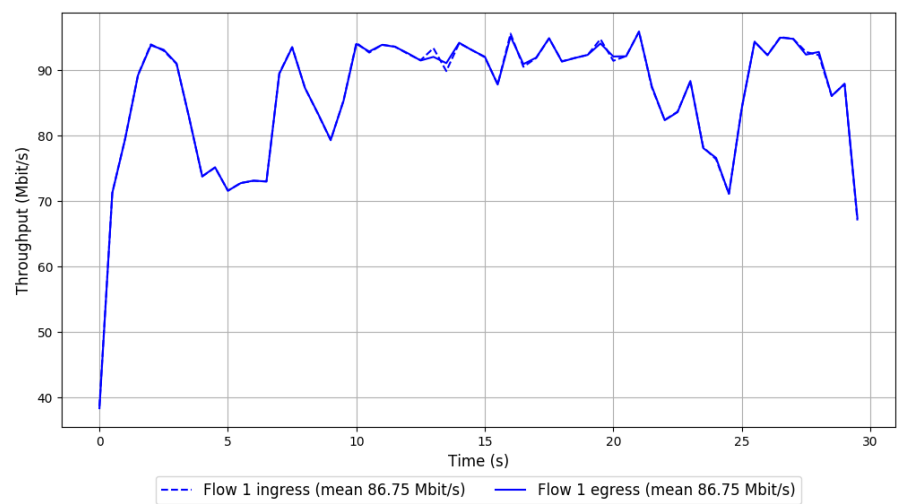
Run 6: Report of PCC — Data Link

Flow 1 ingress (mean 84.90 Mbit/s)   Flow 1 egress (mean 84.91 Mbit/s)

Flow 1 (95th percentile 9.71 ms)

```
Run 7: Statistics of PCC

Start at: Sun, 16 Jul 2017 20:56:05 +0000
End at: Sun, 16 Jul 2017 20:56:35 +0000
Local clock offset: -2.863 ms
Remote clock offset: 1.625 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:23:40 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.31 Mbit/s
95th percentile per-packet one-way delay: 6.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.31 Mbit/s
95th percentile per-packet one-way delay: 6.016 ms
Loss rate: 0.00%
```
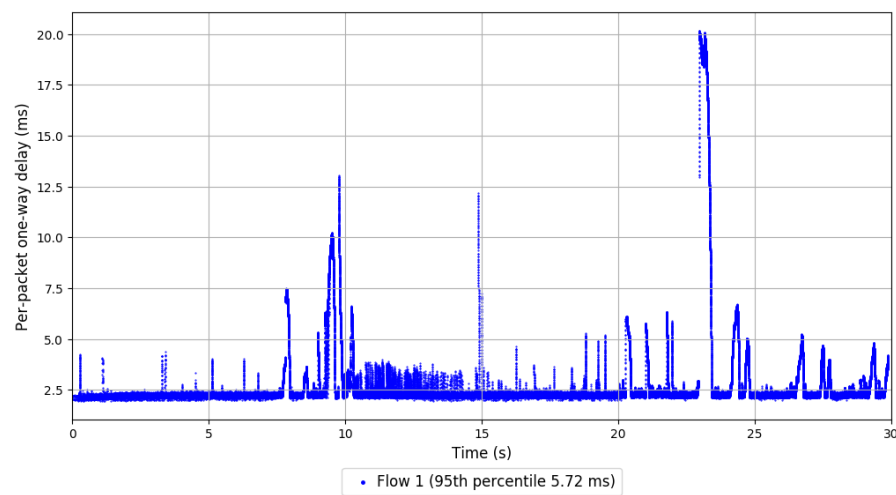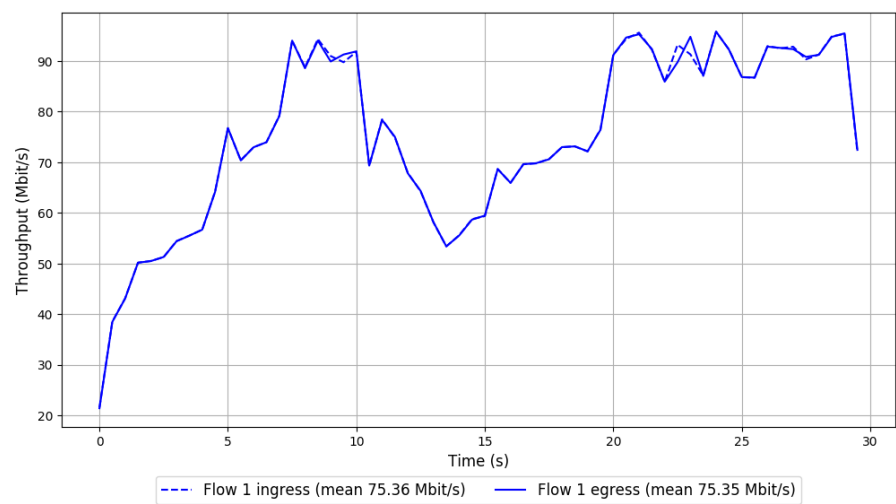
Run 7: Report of PCC — Data Link

Flow 1 ingress (mean 86.31 Mbit/s) ---- Flow 1 egress (mean 86.31 Mbit/s)

Flow 1 (95th percentile 6.02 ms)

```
Run 8: Statistics of PCC

Start at: Sun, 16 Jul 2017 21:12:57 +0000
End at: Sun, 16 Jul 2017 21:13:27 +0000
Local clock offset: -3.097 ms
Remote clock offset: 2.344 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:23:41 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.75 Mbit/s
95th percentile per-packet one-way delay: 3.865 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.75 Mbit/s
95th percentile per-packet one-way delay: 3.865 ms
Loss rate: 0.00%
```
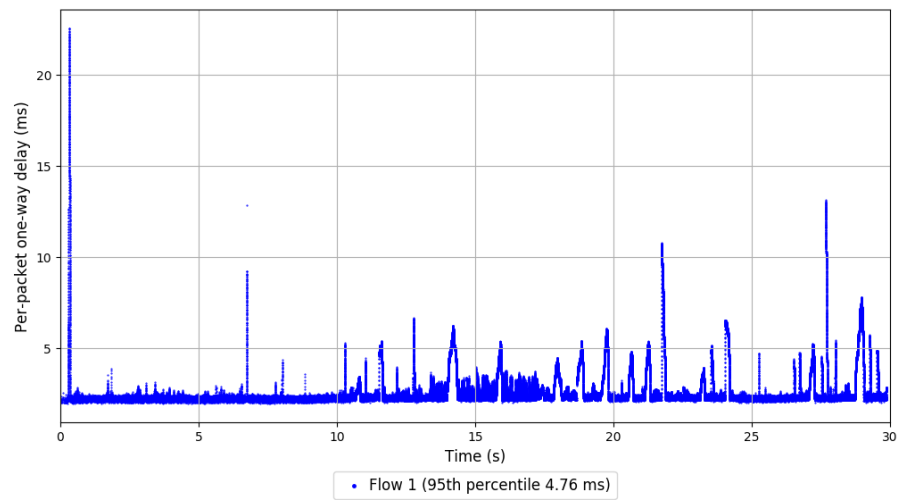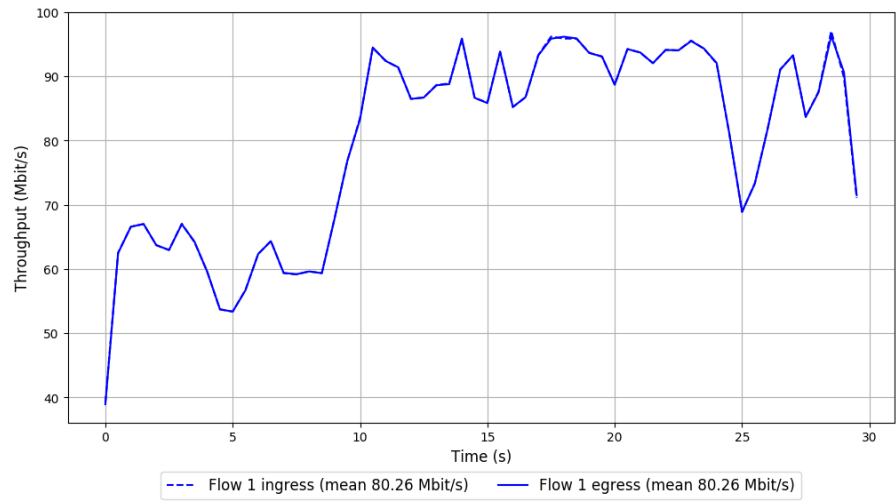
Run 8: Report of PCC — Data Link

Flow 1 ingress (mean 86.75 Mbit/s)   Flow 1 egress (mean 86.75 Mbit/s)

Flow 1 (95th percentile 3.87 ms)

```
Run 9: Statistics of PCC

Start at: Sun, 16 Jul 2017 21:29:50 +0000
End at: Sun, 16 Jul 2017 21:30:20 +0000
Local clock offset: -3.421 ms
Remote clock offset: 2.18 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:23:51 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.35 Mbit/s
95th percentile per-packet one-way delay: 5.718 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.35 Mbit/s
95th percentile per-packet one-way delay: 5.718 ms
Loss rate: 0.00%
```
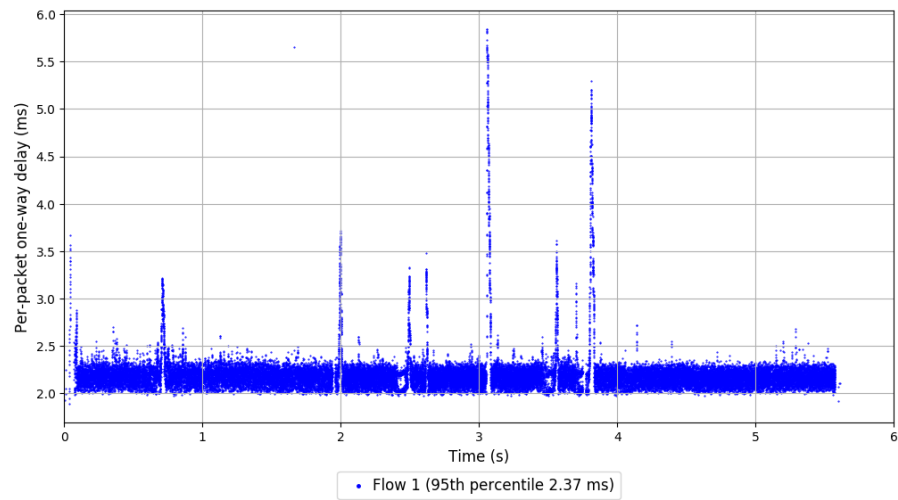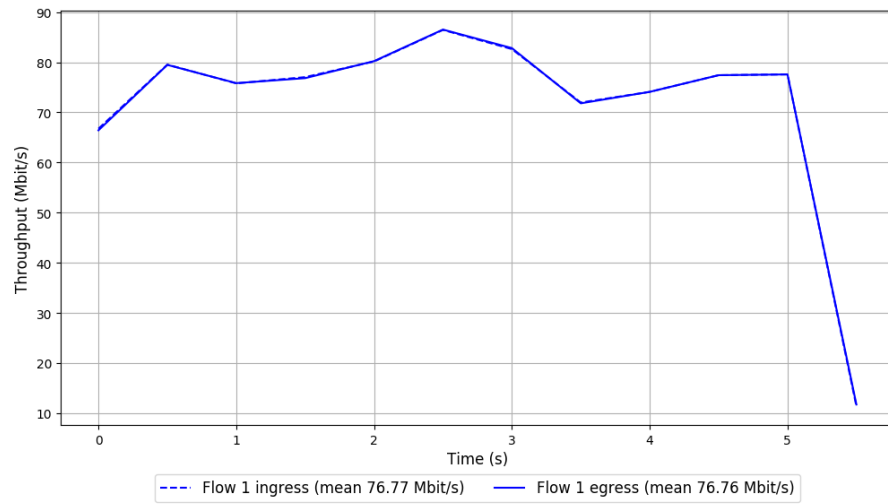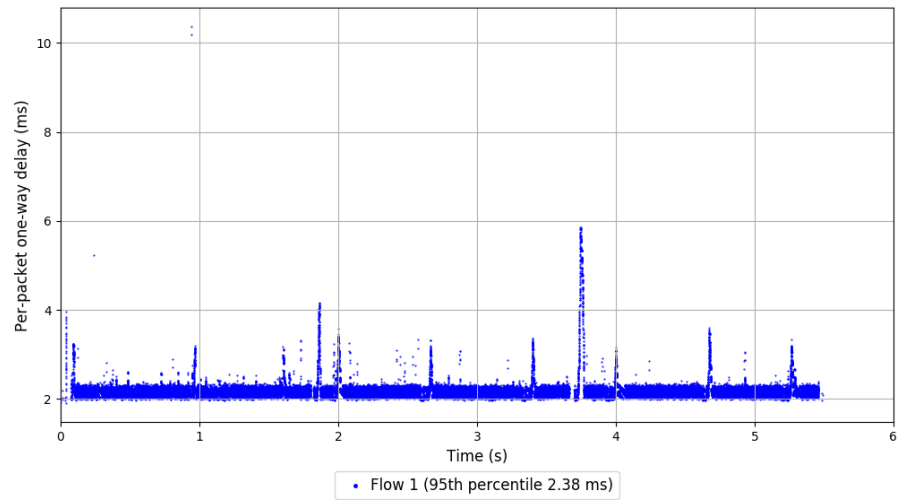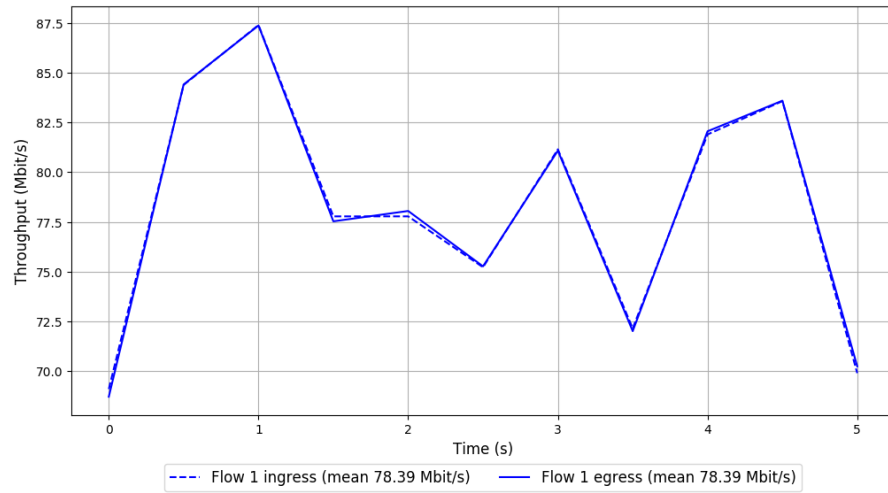
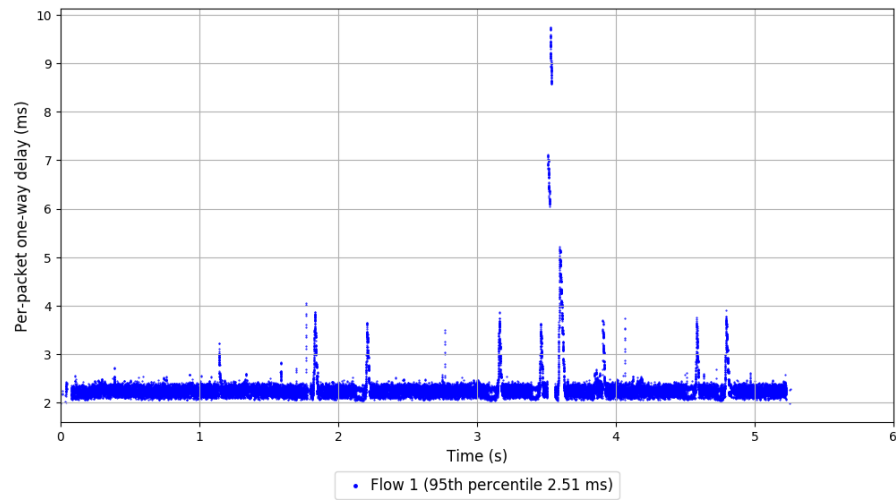Run 9: Report of PCC — Data Link

```
Run 10: Statistics of PCC

Start at: Sun, 16 Jul 2017 21:46:47 +0000
End at: Sun, 16 Jul 2017 21:47:17 +0000
Local clock offset: -3.428 ms
Remote clock offset: 1.843 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:23:52 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.26 Mbit/s
95th percentile per-packet one-way delay: 4.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.26 Mbit/s
95th percentile per-packet one-way delay: 4.764 ms
Loss rate: 0.00%
```

Run 10: Report of PCC — Data Link

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Run 1: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 19:10:21 +0000
End at: Sun, 16 Jul 2017 19:10:52 +0000
Local clock offset: -1.218 ms
Remote clock offset: -0.891 ms

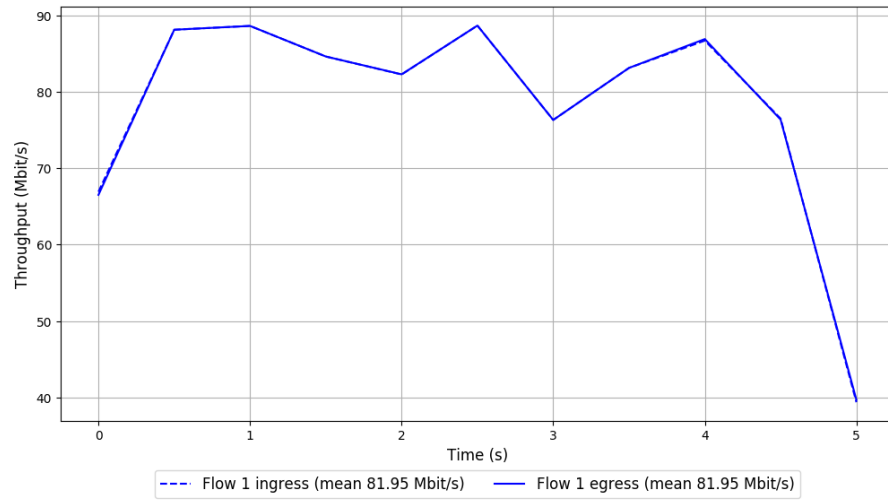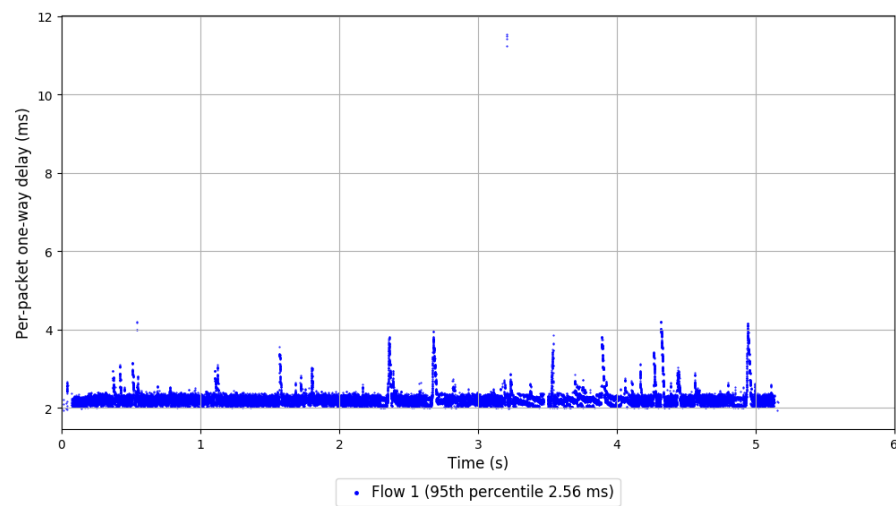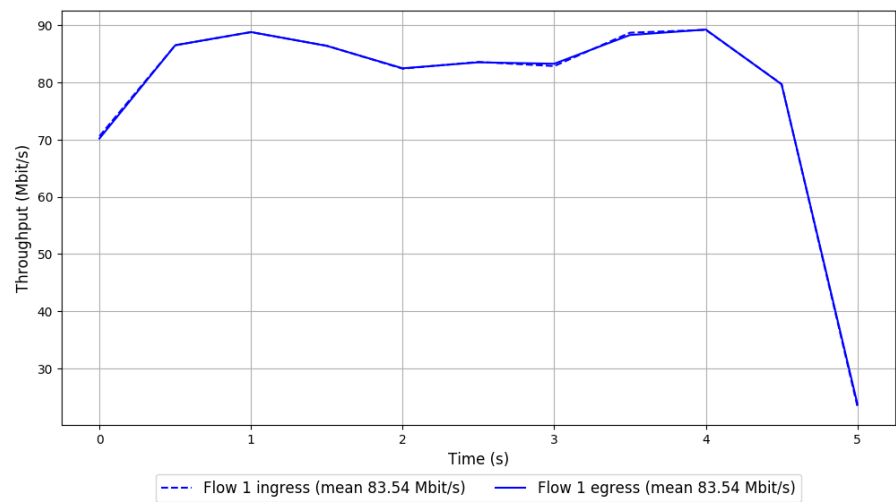Run 1: Report of QUIC Cubic — Data Link
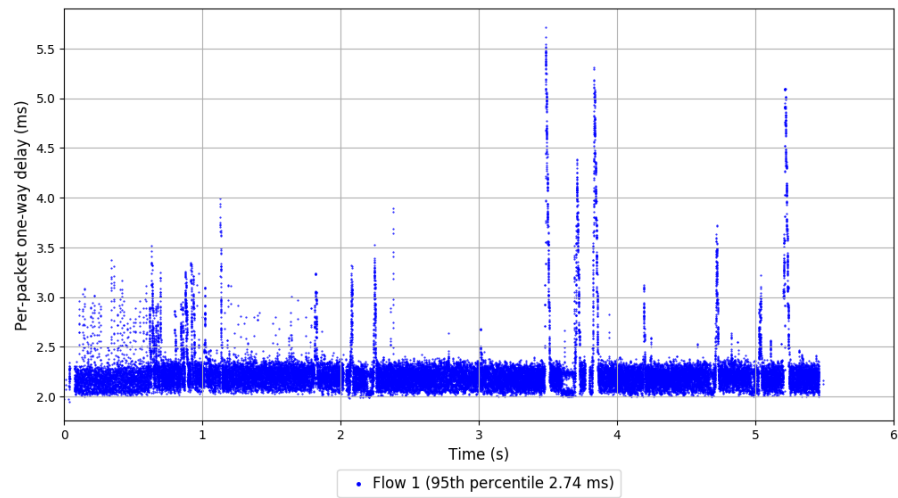
Run 2: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 19:27:13 +0000
End at: Sun, 16 Jul 2017 19:27:43 +0000
Local clock offset: -1.475 ms
Remote clock offset: -0.783 ms

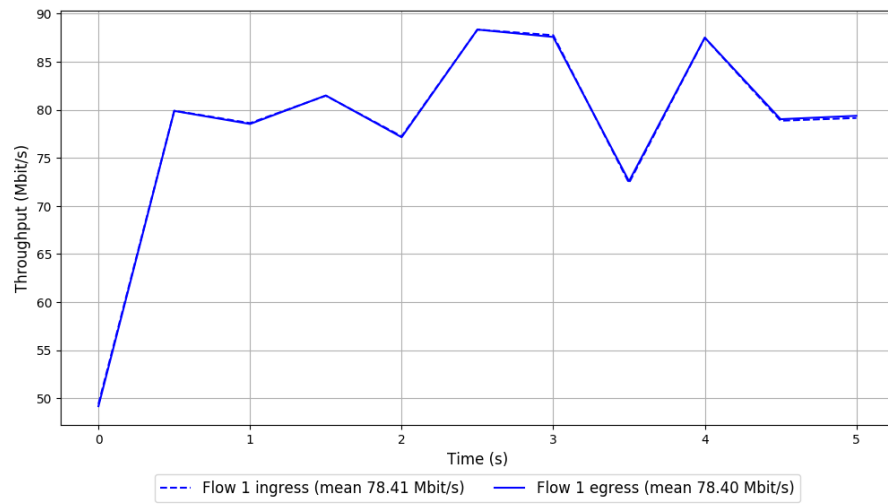Run 2: Report of QUIC Cubic — Data Link

Run 3: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 19:44:17 +0000
End at: Sun, 16 Jul 2017 19:44:47 +0000
Local clock offset: -1.69 ms
Remote clock offset: -0.612 ms

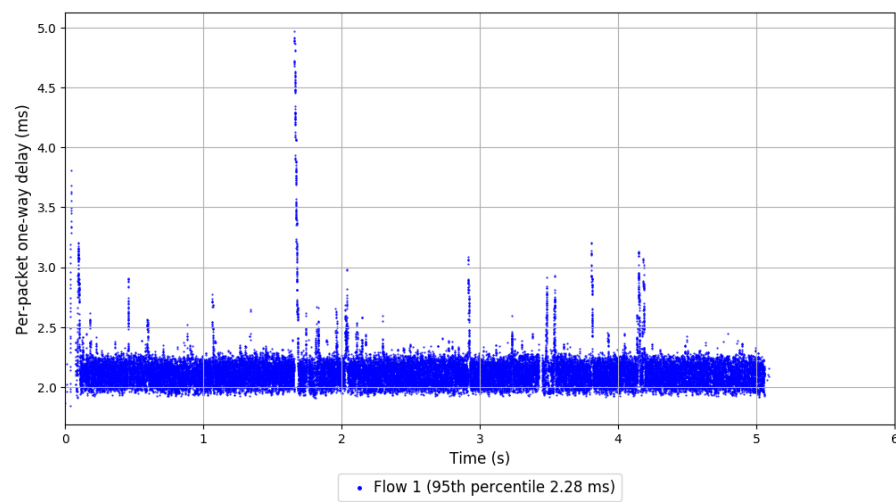Run 3: Report of QUIC Cubic — Data Link

Run 4: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 20:01:09 +0000
End at: Sun, 16 Jul 2017 20:01:39 +0000
Local clock offset: -1.937 ms
Remote clock offset: 0.021 ms

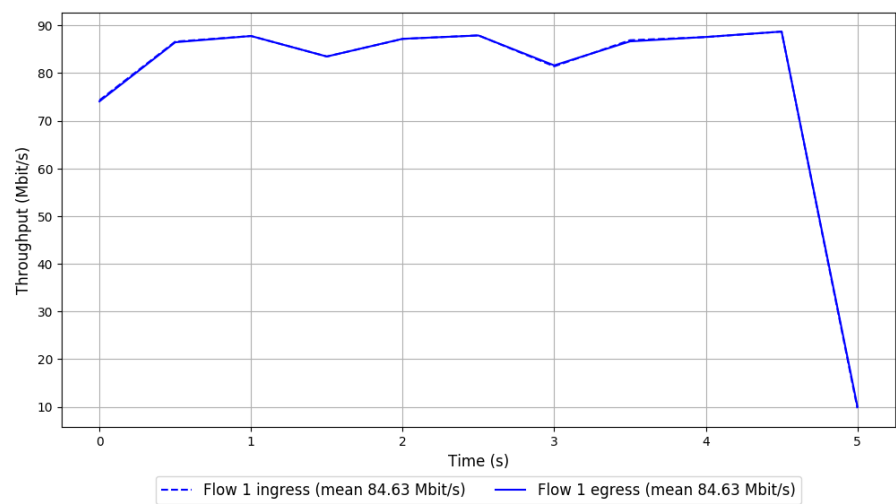Run 4: Report of QUIC Cubic — Data Link

Run 5: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 20:18:01 +0000
End at: Sun, 16 Jul 2017 20:18:31 +0000
Local clock offset: -2.167 ms
Remote clock offset: 0.841 ms

Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 78.41 Mbit/s) — — — — Flow 1 egress (mean 78.40 Mbit/s)

Flow 1 (95th percentile 2.74 ms)

Run 6: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 20:34:54 +0000
End at: Sun, 16 Jul 2017 20:35:24 +0000
Local clock offset: -2.442 ms
Remote clock offset: 1.049 ms

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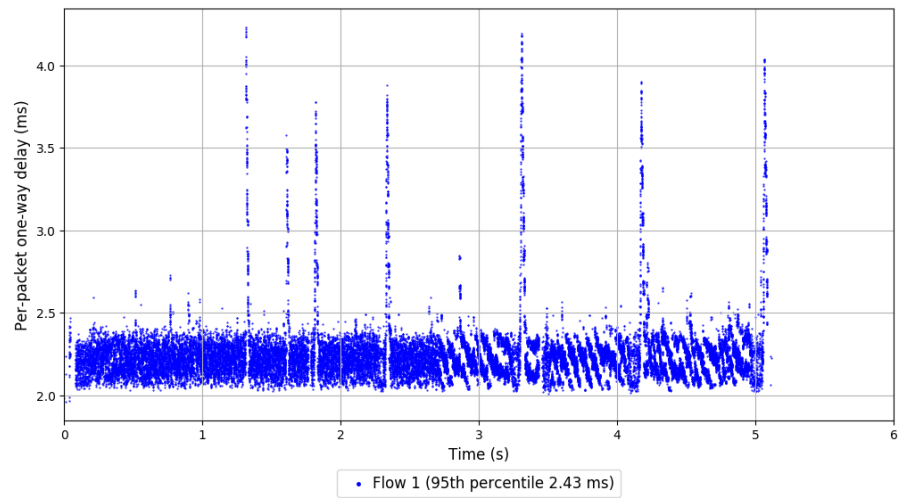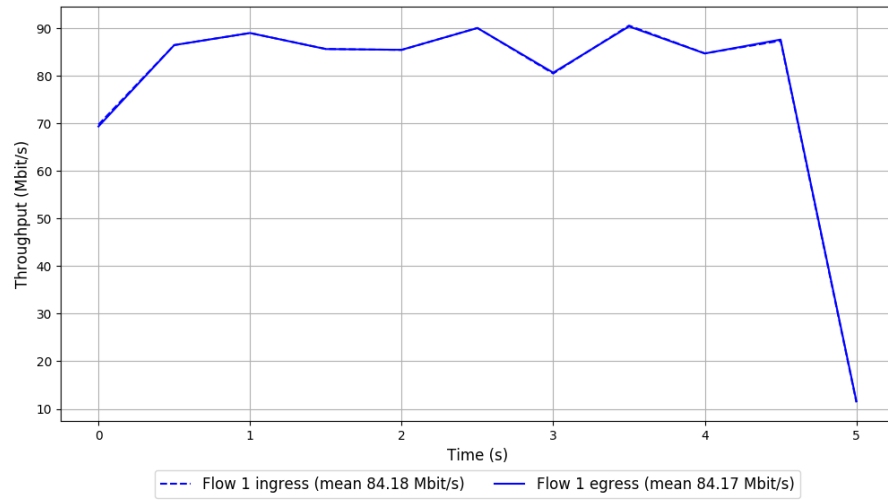
Run 7: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 20:51:44 +0000
End at: Sun, 16 Jul 2017 20:52:14 +0000
Local clock offset: -2.75 ms
Remote clock offset: 1.569 ms

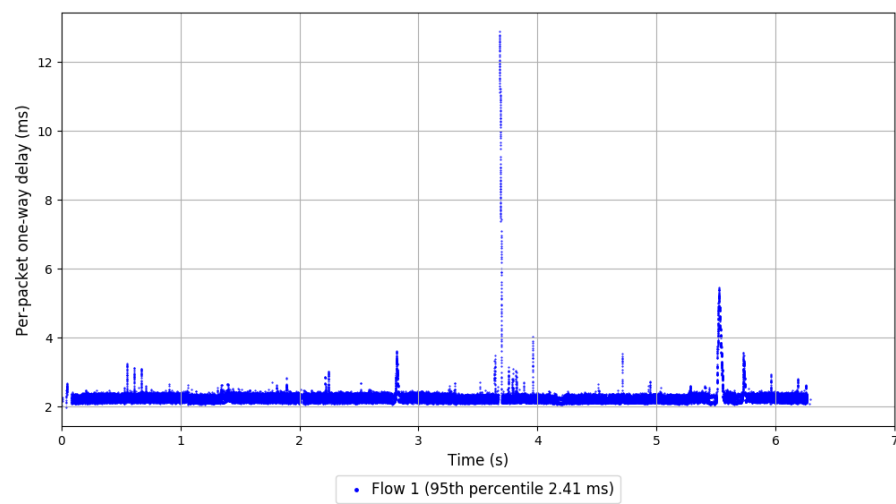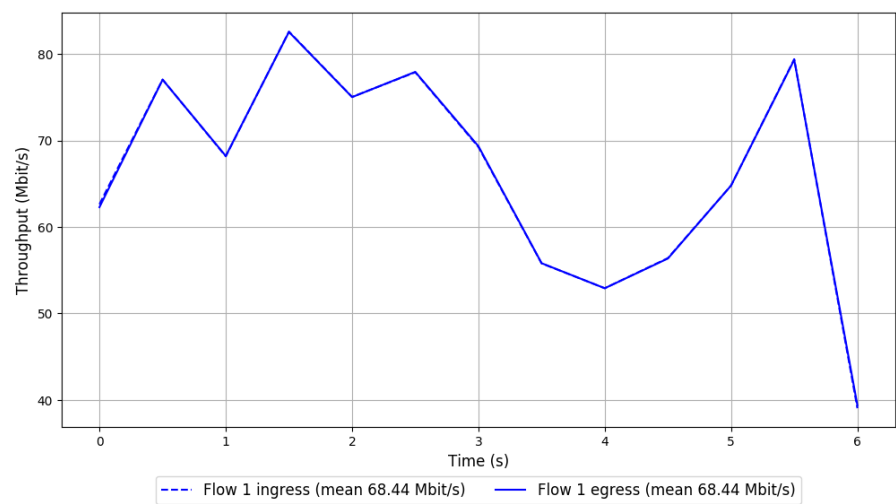# Run 7: Report of QUIC Cubic — Data Link

```
Run 8: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 21:08:37 +0000
End at: Sun, 16 Jul 2017 21:09:07 +0000
Local clock offset: -3.081 ms
Remote clock offset: 2.288 ms
```

Run 8: Report of QUIC Cubic — Data Link

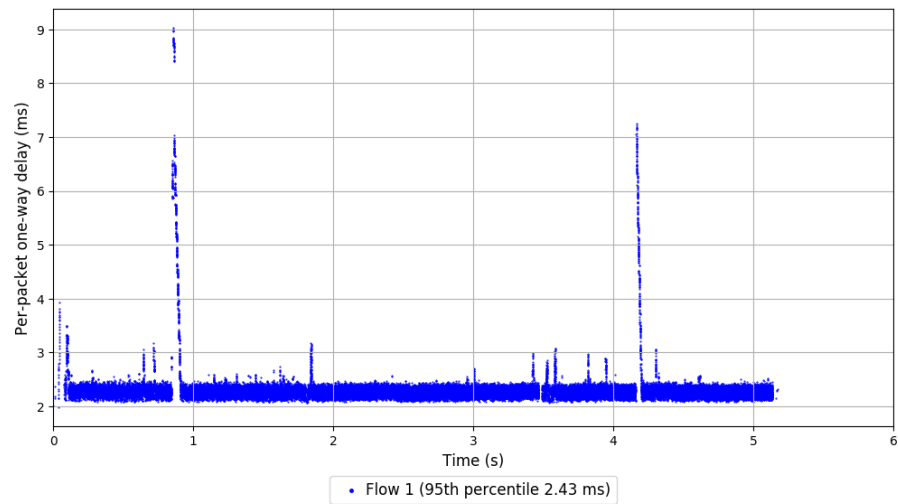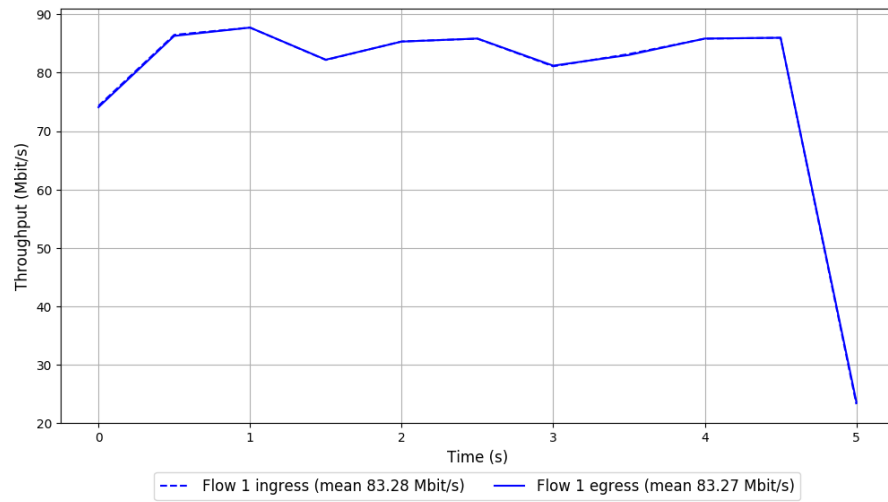Run 9: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 21:25:29 +0000
End at: Sun, 16 Jul 2017 21:25:59 +0000
Local clock offset: -3.395 ms
Remote clock offset: 2.213 ms

Run 9: Report of QUIC Cubic — Data Link
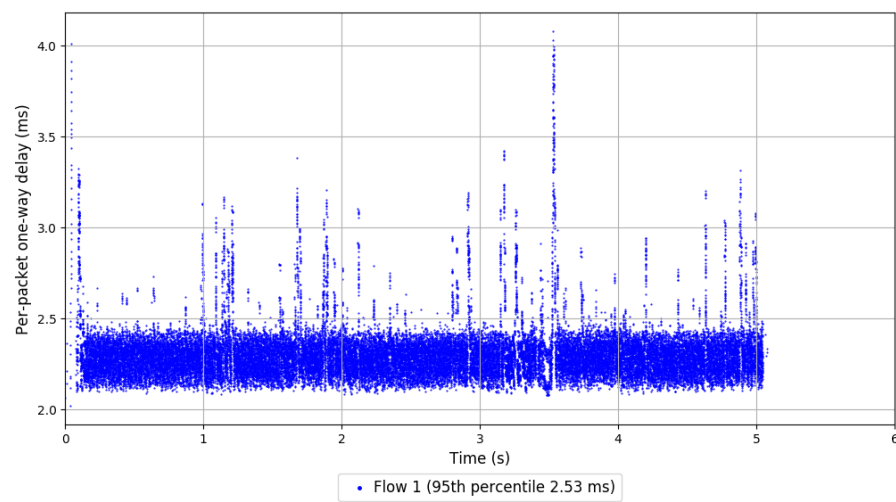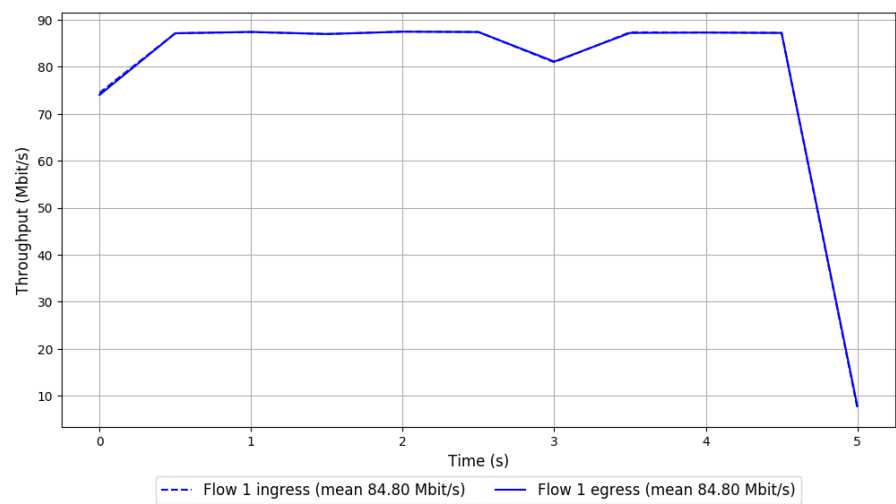
Run 10: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 21:42:26 +0000
End at: Sun, 16 Jul 2017 21:42:56 +0000
Local clock offset: -3.503 ms
Remote clock offset: 1.993 ms

Run 10: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of Saturator

Start at: Sun, 16 Jul 2017 19:20:17 +0000
End at: Sun, 16 Jul 2017 19:20:47 +0000
Local clock offset: -1.361 ms
Remote clock offset: -0.739 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:24:20 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 22.668 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 22.668 ms
Loss rate: 0.02%
```
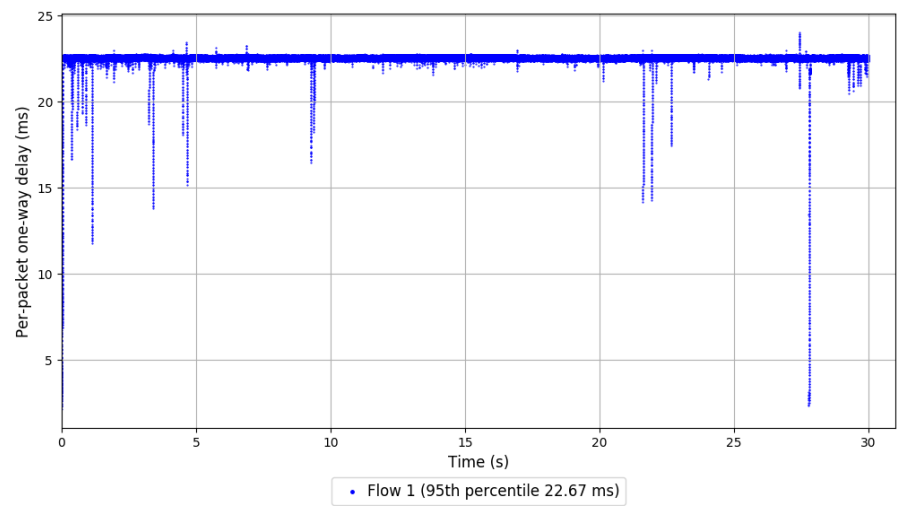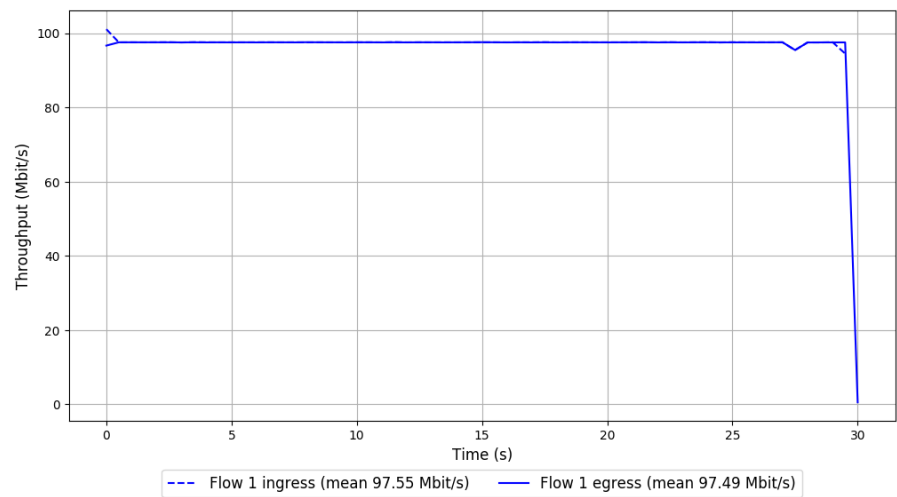
Run 1: Report of Saturator — Data Link

```
Run 2: Statistics of Saturator

Start at: Sun, 16 Jul 2017 19:37:20 +0000
End at: Sun, 16 Jul 2017 19:37:50 +0000
Local clock offset: -1.612 ms
Remote clock offset: -0.719 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:24:20 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 22.607 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 22.607 ms
Loss rate: 0.00%
```
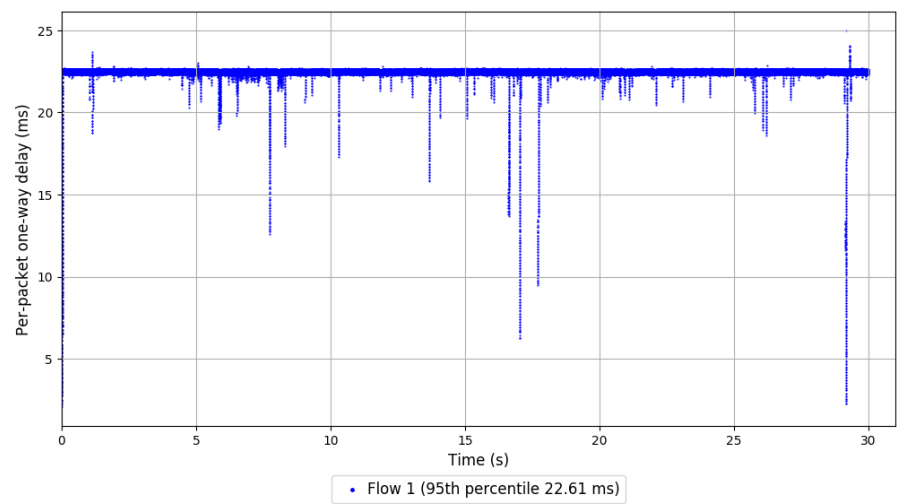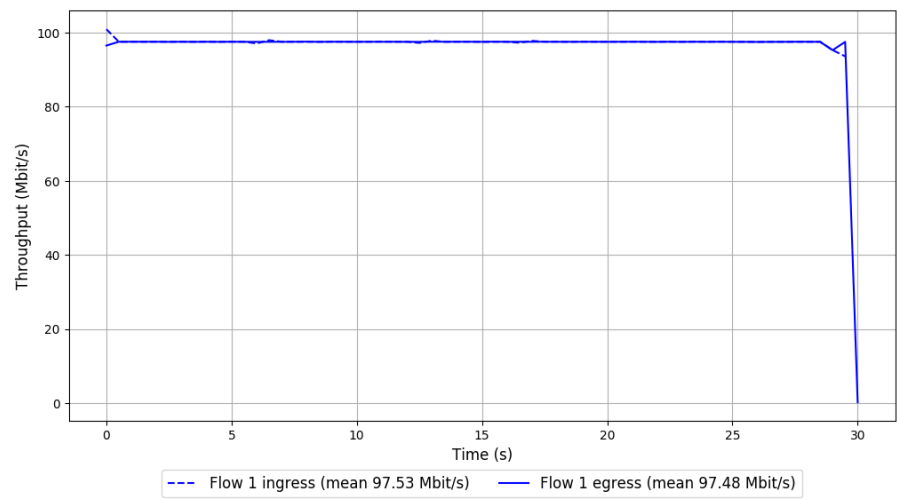
Run 2: Report of Saturator — Data Link

```
Run 3: Statistics of Saturator

Start at: Sun, 16 Jul 2017 19:54:12 +0000
End at: Sun, 16 Jul 2017 19:54:42 +0000
Local clock offset: -1.871 ms
Remote clock offset: -0.344 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:24:33 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 22.711 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 22.711 ms
Loss rate: 0.00%
```
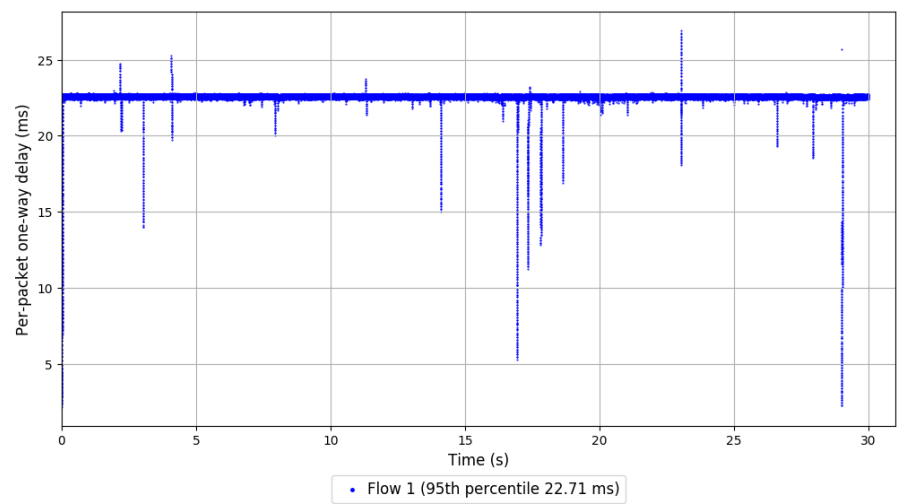
Run 3: Report of Saturator — Data Link

Flow 1 ingress (mean 97.55 Mbit/s) --- Flow 1 egress (mean 97.48 Mbit/s)

Flow 1 (95th percentile 22.71 ms)

```
Run 4: Statistics of Saturator

Start at: Sun, 16 Jul 2017 20:11:05 +0000
End at: Sun, 16 Jul 2017 20:11:35 +0000
Local clock offset: -2.141 ms
Remote clock offset: 0.629 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:24:33 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 22.749 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 22.749 ms
Loss rate: 0.02%
```
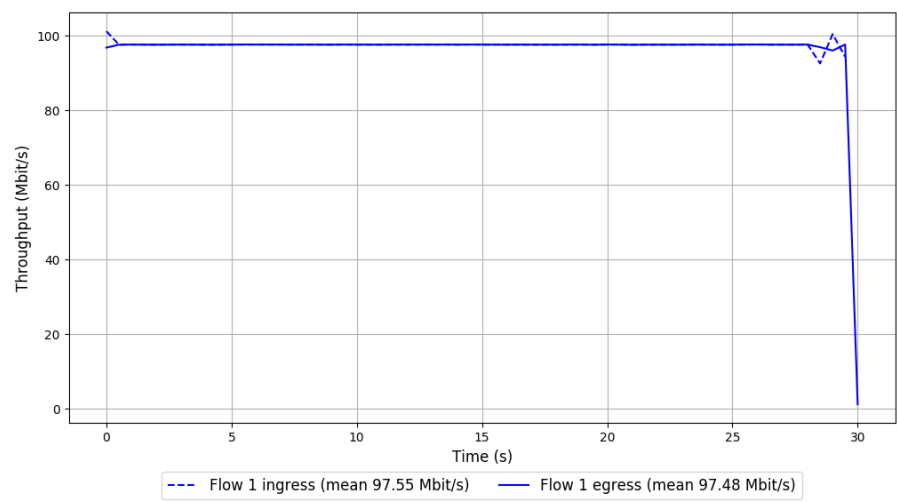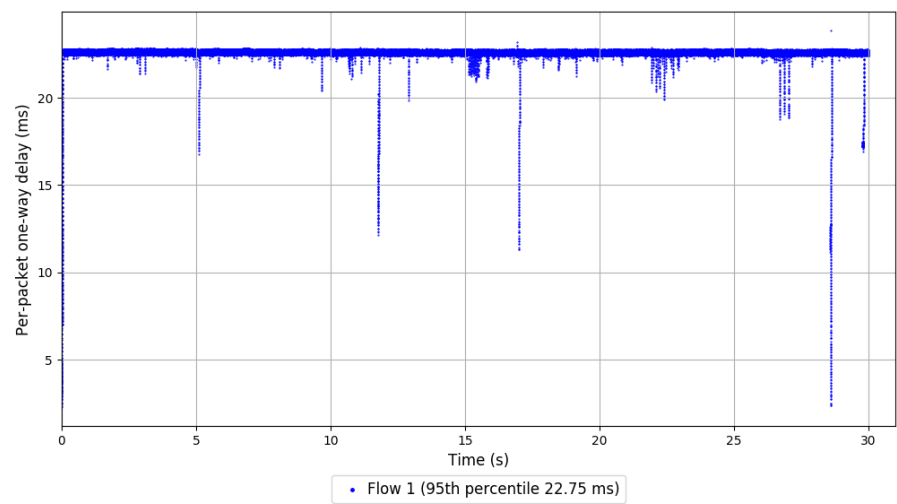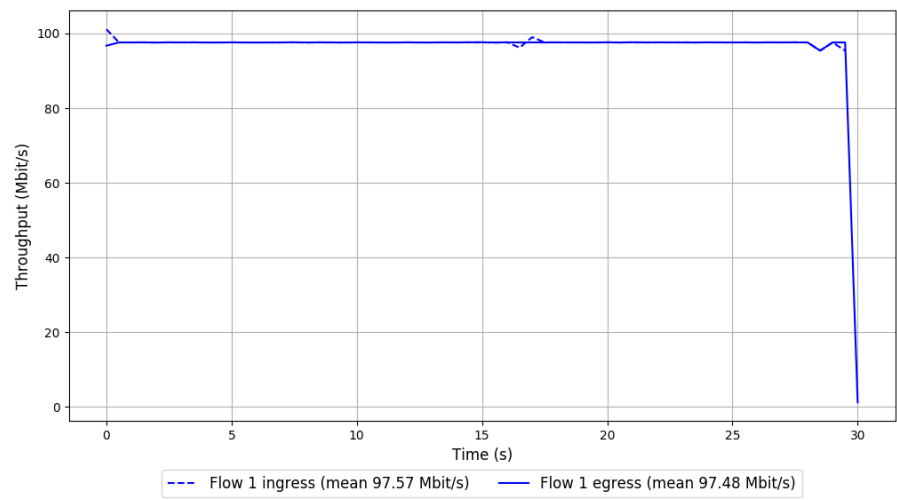
Run 4: Report of Saturator — Data Link

Flow 1 ingress (mean 97.57 Mbit/s) ----   Flow 1 egress (mean 97.48 Mbit/s) ——

• Flow 1 (95th percentile 22.75 ms)

```
Run 5: Statistics of Saturator

Start at: Sun, 16 Jul 2017 20:27:57 +0000
End at: Sun, 16 Jul 2017 20:28:27 +0000
Local clock offset: -2.368 ms
Remote clock offset: 0.992 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:24:45 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 22.647 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 22.647 ms
Loss rate: 0.04%
```
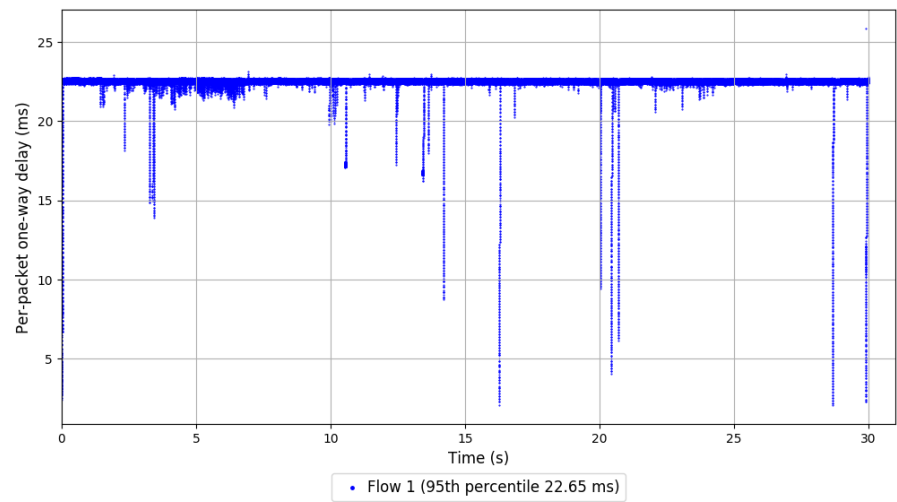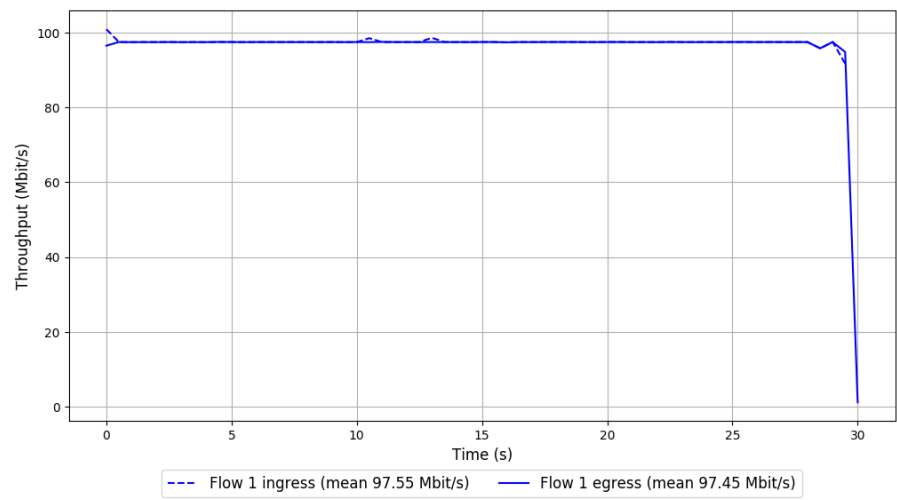
Run 5: Report of Saturator — Data Link

Flow 1 ingress (mean 97.55 Mbit/s) --- Flow 1 egress (mean 97.45 Mbit/s)

Flow 1 (95th percentile 22.65 ms)

```
Run 6: Statistics of Saturator

Start at: Sun, 16 Jul 2017 20:44:54 +0000
End at: Sun, 16 Jul 2017 20:45:24 +0000
Local clock offset: -2.597 ms
Remote clock offset: 1.322 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:24:46 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 22.659 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 22.659 ms
Loss rate: 0.04%
```
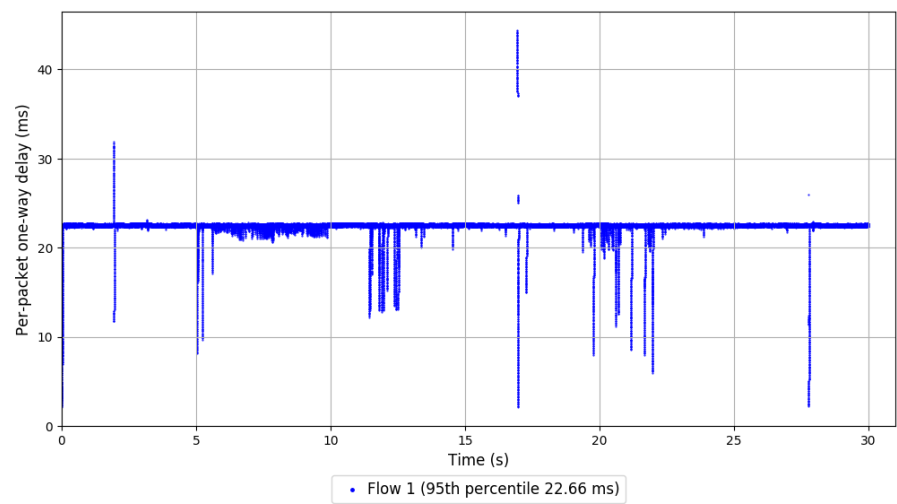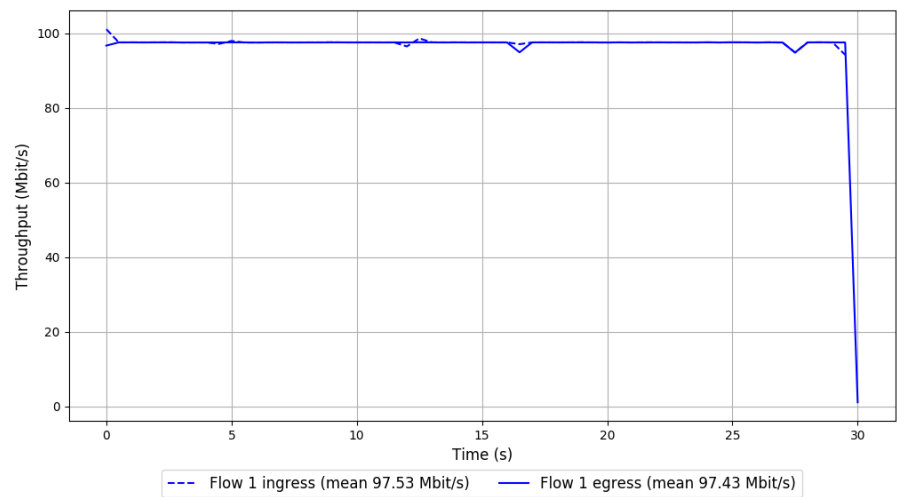
Run 6: Report of Saturator — Data Link

Flow 1 ingress (mean 97.53 Mbit/s)   Flow 1 egress (mean 97.43 Mbit/s)

Flow 1 (95th percentile 22.66 ms)

```
Run 7: Statistics of Saturator

Start at: Sun, 16 Jul 2017 21:01:40 +0000
End at: Sun, 16 Jul 2017 21:02:10 +0000
Local clock offset: -2.887 ms
Remote clock offset: 2.053 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:24:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.52 Mbit/s
95th percentile per-packet one-way delay: 22.684 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.52 Mbit/s
95th percentile per-packet one-way delay: 22.684 ms
Loss rate: 0.00%
```
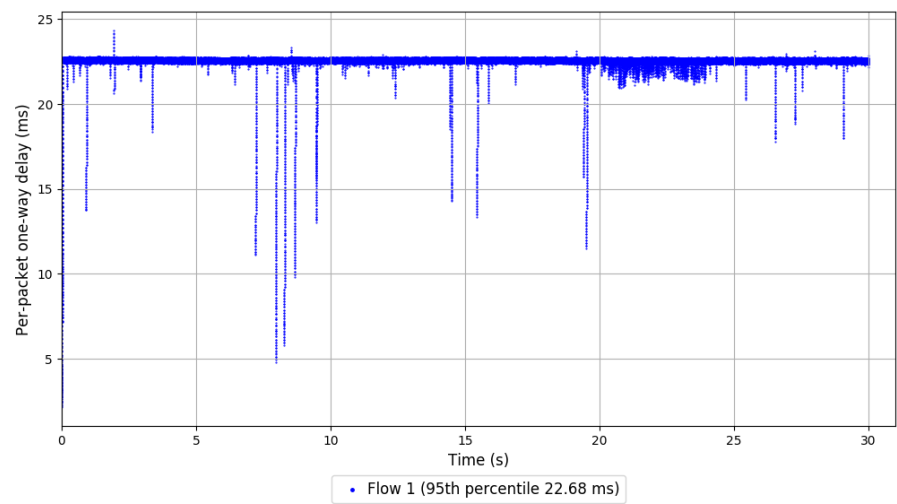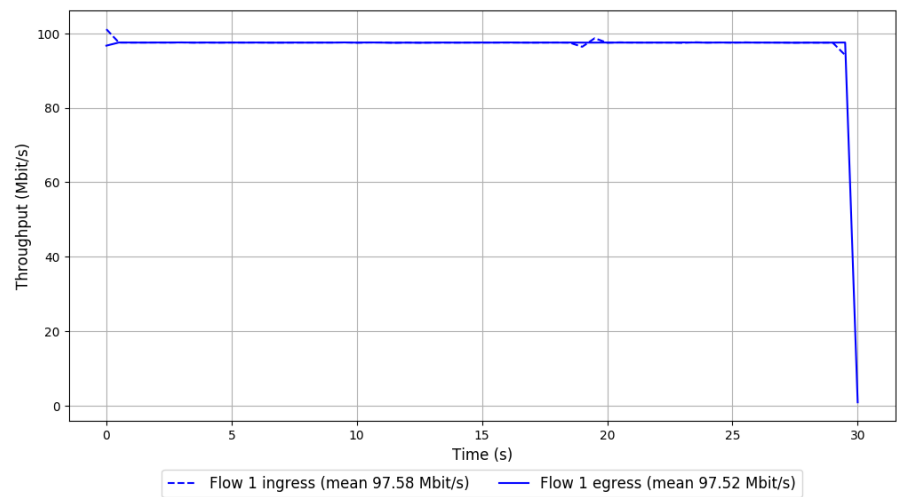
Run 7: Report of Saturator — Data Link

```
Run 8: Statistics of Saturator

Start at: Sun, 16 Jul 2017 21:18:33 +0000
End at: Sun, 16 Jul 2017 21:19:03 +0000
Local clock offset: -3.363 ms
Remote clock offset: 2.253 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:24:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 22.744 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 22.744 ms
Loss rate: 0.02%
```
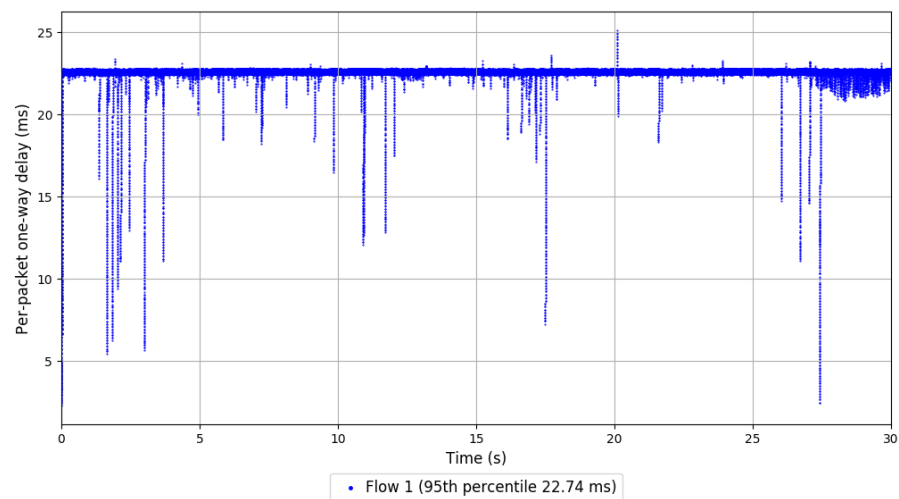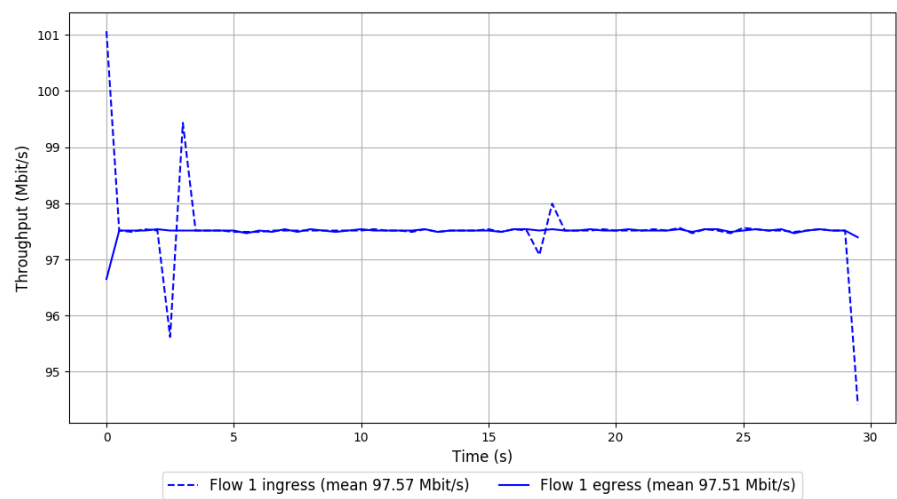
Run 8: Report of Saturator — Data Link

```
Run 9: Statistics of Saturator

Start at: Sun, 16 Jul 2017 21:35:29 +0000
End at: Sun, 16 Jul 2017 21:35:59 +0000
Local clock offset: -3.418 ms
Remote clock offset: 2.219 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:13 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 22.772 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 22.772 ms
Loss rate: 0.02%
```
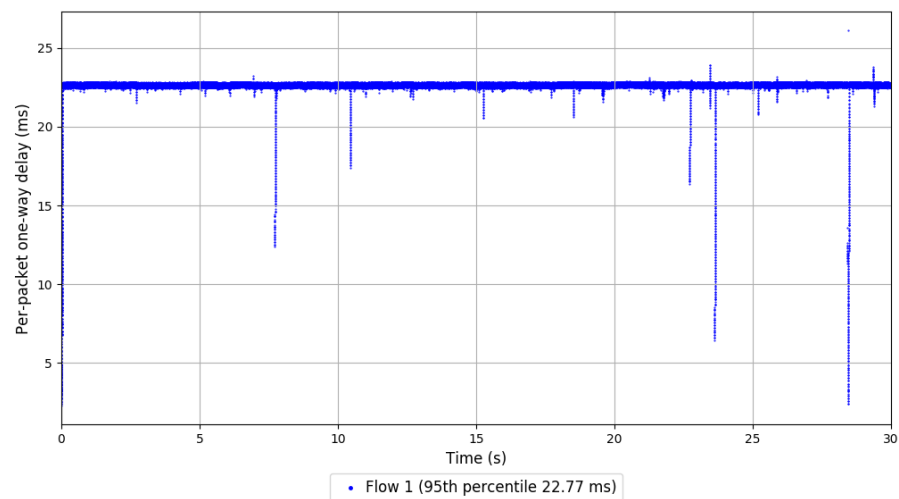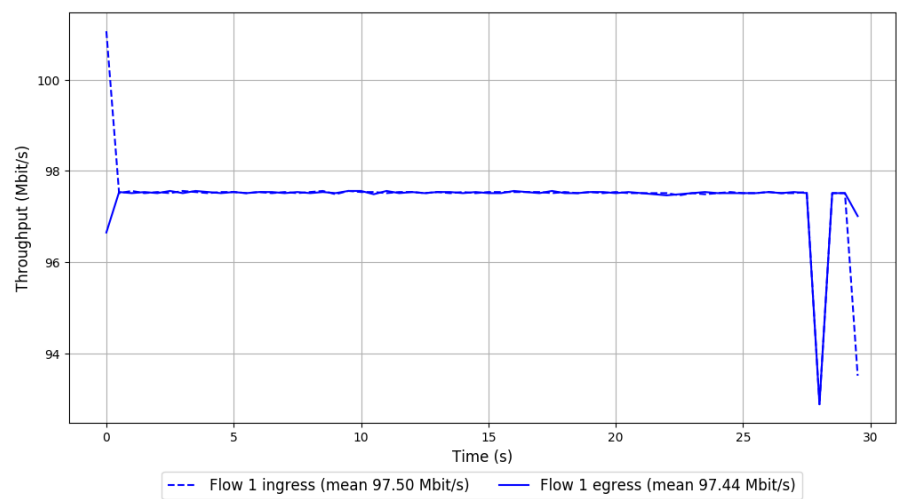
Run 9: Report of Saturator — Data Link

```
Run 10: Statistics of Saturator

Start at: Sun, 16 Jul 2017 21:52:34 +0000
End at: Sun, 16 Jul 2017 21:53:04 +0000
Local clock offset: -3.401 ms
Remote clock offset: 1.565 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:13 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 22.739 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 22.739 ms
Loss rate: 0.06%
```
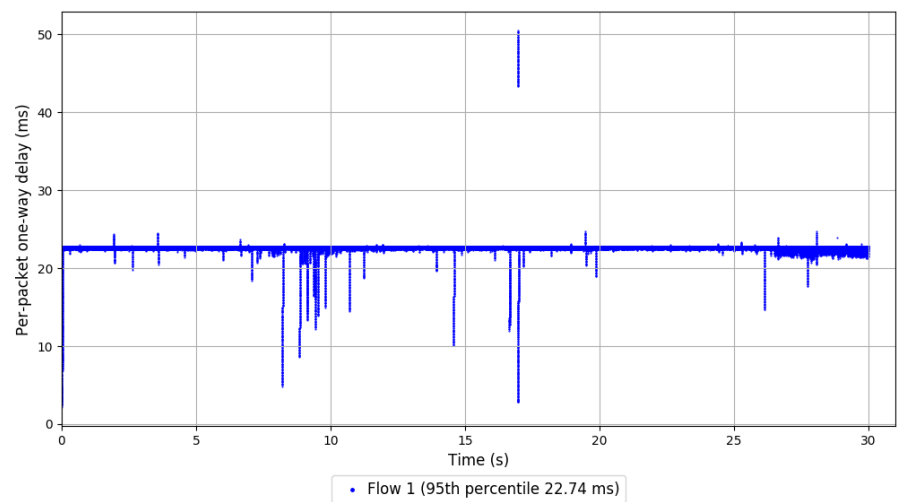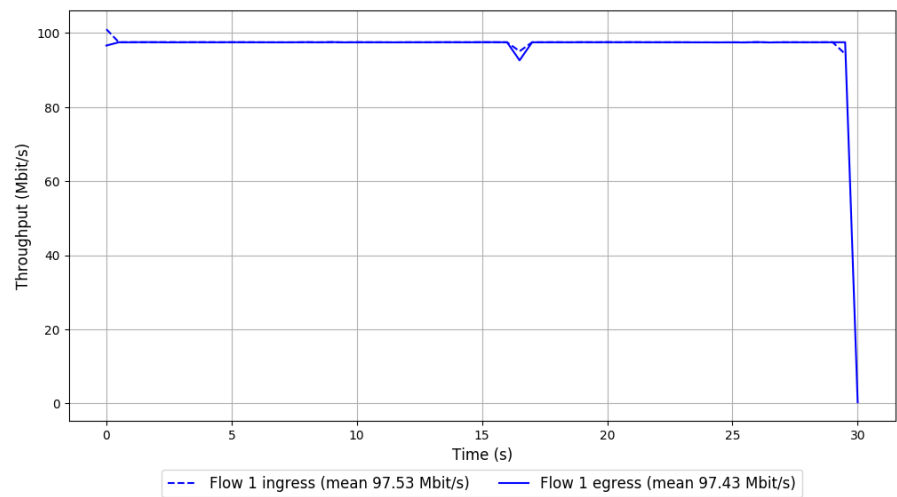
Run 10: Report of Saturator — Data Link

Flow 1 ingress (mean 97.53 Mbit/s) --- Flow 1 egress (mean 97.43 Mbit/s)

Flow 1 (95th percentile 22.74 ms)

```
Run 1: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 19:12:35 +0000
End at: Sun, 16 Jul 2017 19:13:05 +0000
Local clock offset: -1.258 ms
Remote clock offset: -0.811 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:13 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.215 ms
Loss rate: 0.00%
```
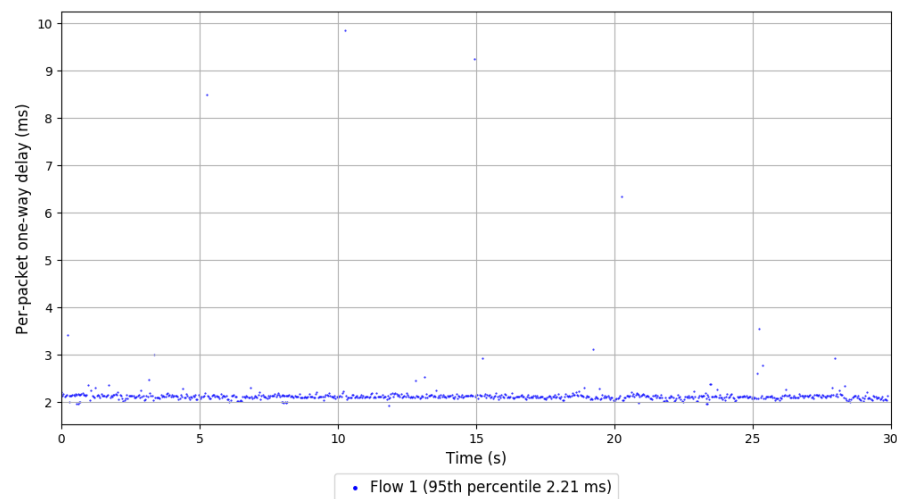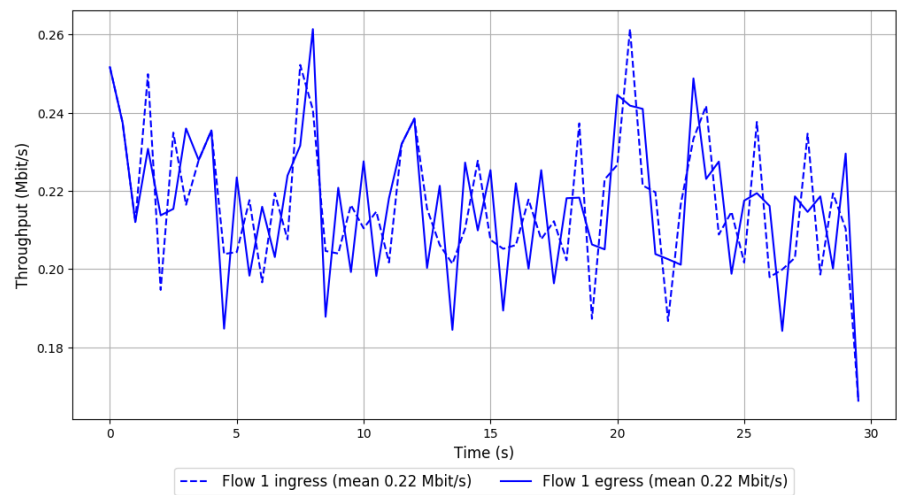
Run 1: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 2.21 ms)

```
Run 2: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 19:29:27 +0000
End at: Sun, 16 Jul 2017 19:29:57 +0000
Local clock offset: -1.518 ms
Remote clock offset: -0.699 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:14 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.214 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.214 ms
Loss rate: 0.00%
```
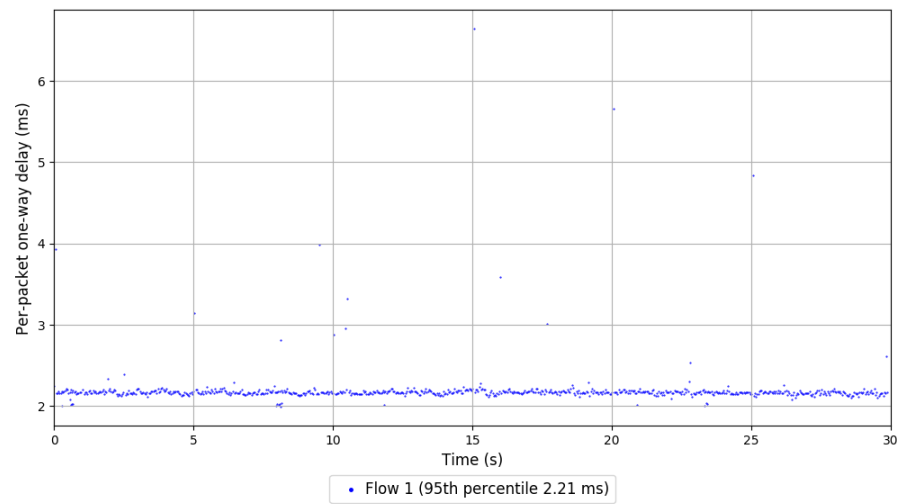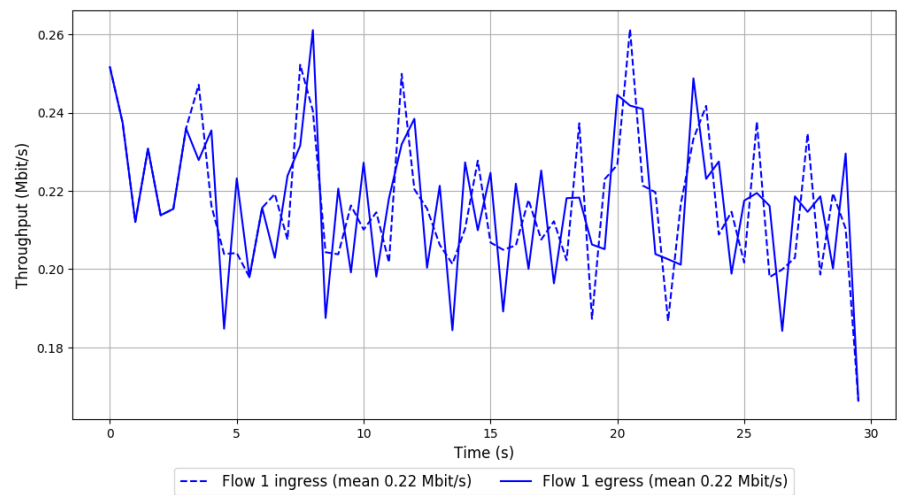
Run 2: Report of SCReAM — Data Link

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

• Flow 1 (95th percentile 2.21 ms)

```
Run 3: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 19:46:30 +0000
End at: Sun, 16 Jul 2017 19:47:00 +0000
Local clock offset: -1.779 ms
Remote clock offset: -0.582 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:14 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.223 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.223 ms
Loss rate: 0.00%
```
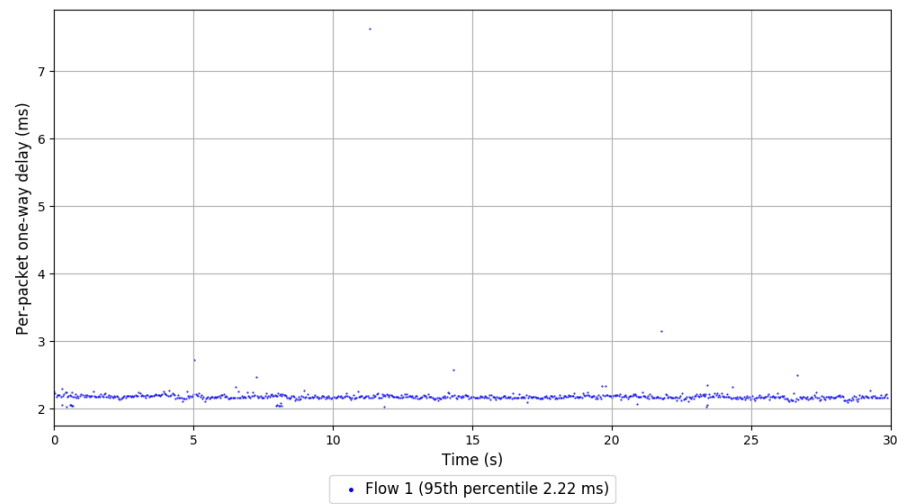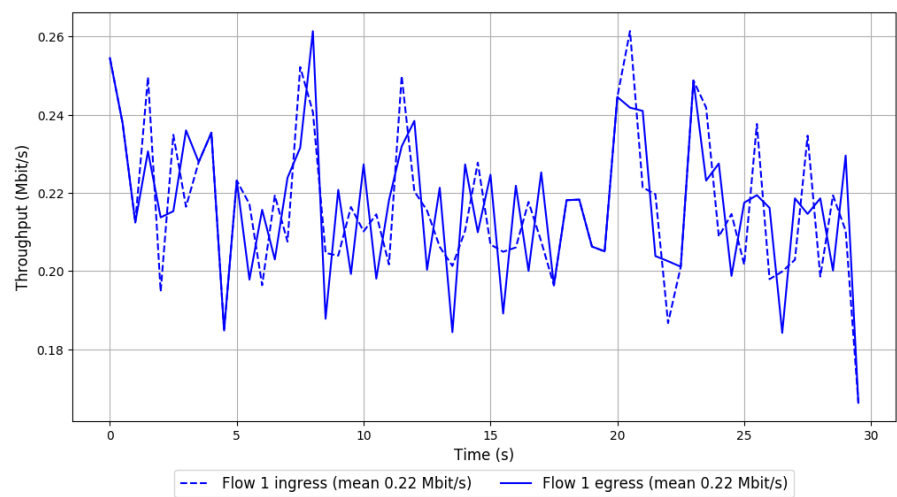
Run 3: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 2.22 ms)

```
Run 4: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 20:03:23 +0000
End at: Sun, 16 Jul 2017 20:03:53 +0000
Local clock offset: -1.968 ms
Remote clock offset: 0.196 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:15 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.151 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.151 ms
Loss rate: 0.00%
```
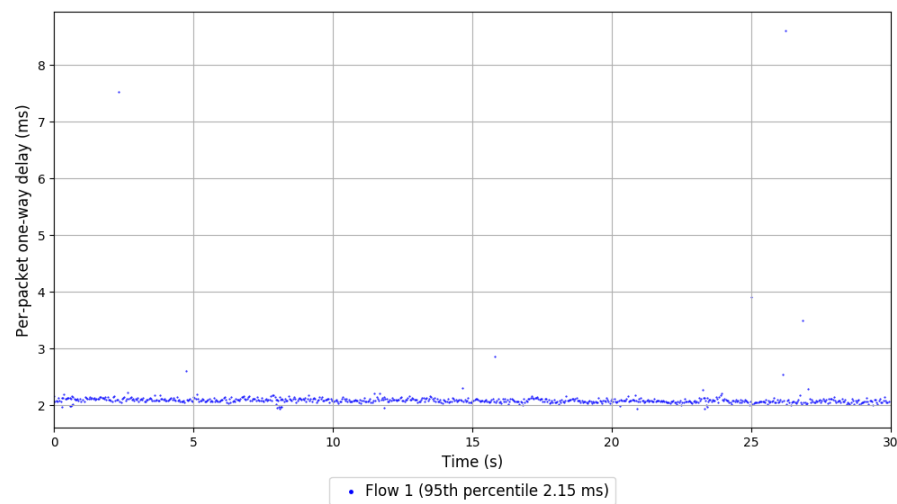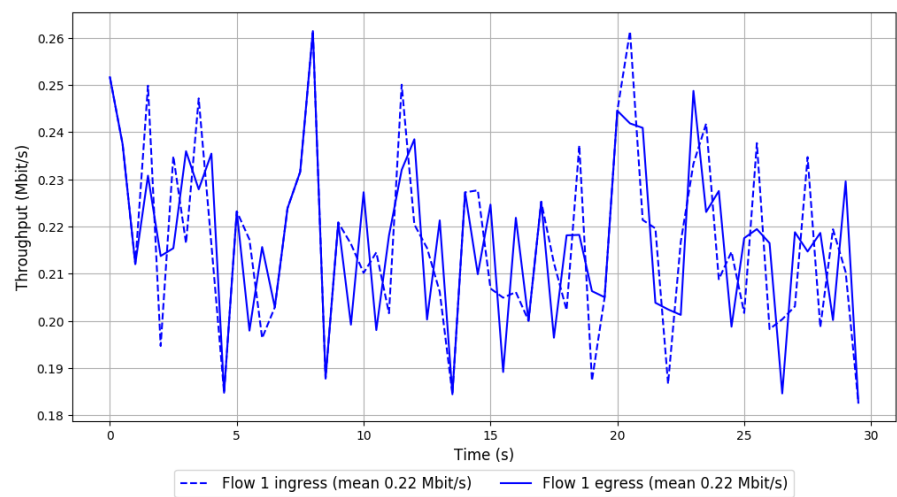
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 20:20:15 +0000
End at: Sun, 16 Jul 2017 20:20:45 +0000
Local clock offset: -2.206 ms
Remote clock offset: 0.902 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:15 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.176 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.176 ms
Loss rate: 0.00%
```
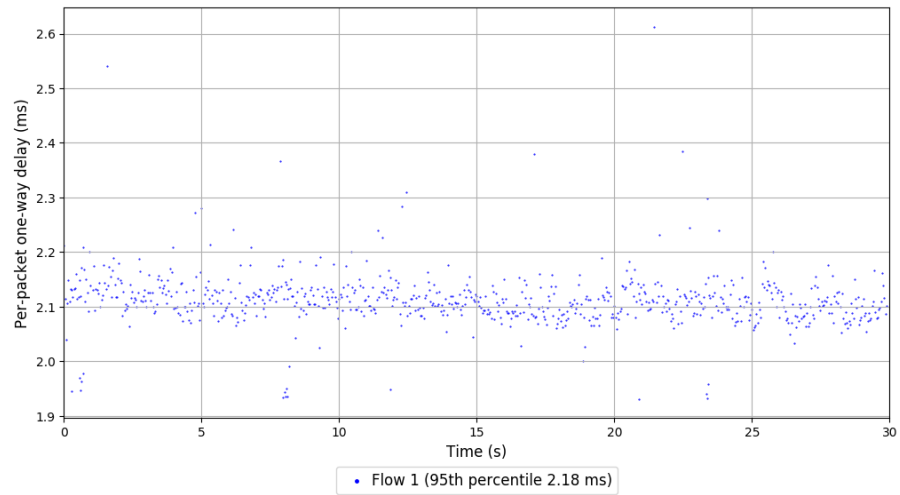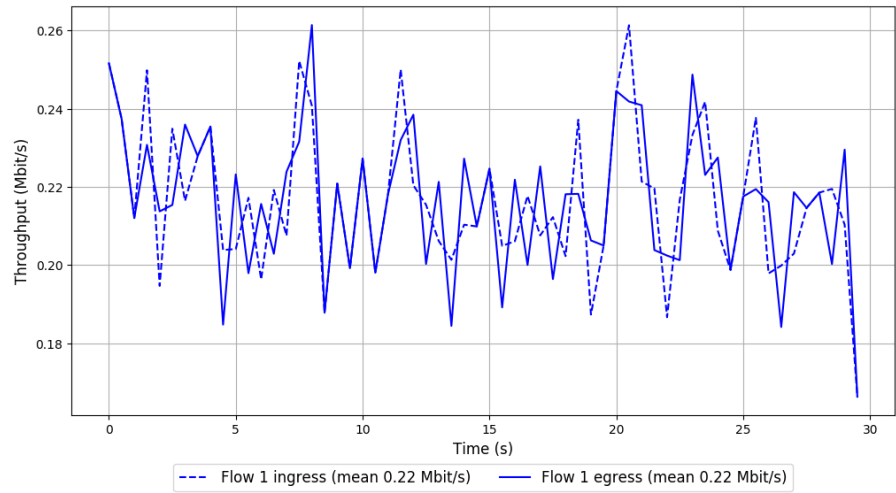
Run 5: Report of SCReAM — Data Link

```
Run 6: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 20:37:07 +0000
End at: Sun, 16 Jul 2017 20:37:37 +0000
Local clock offset: -2.563 ms
Remote clock offset: 1.091 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.219 ms
Loss rate: 0.00%
```
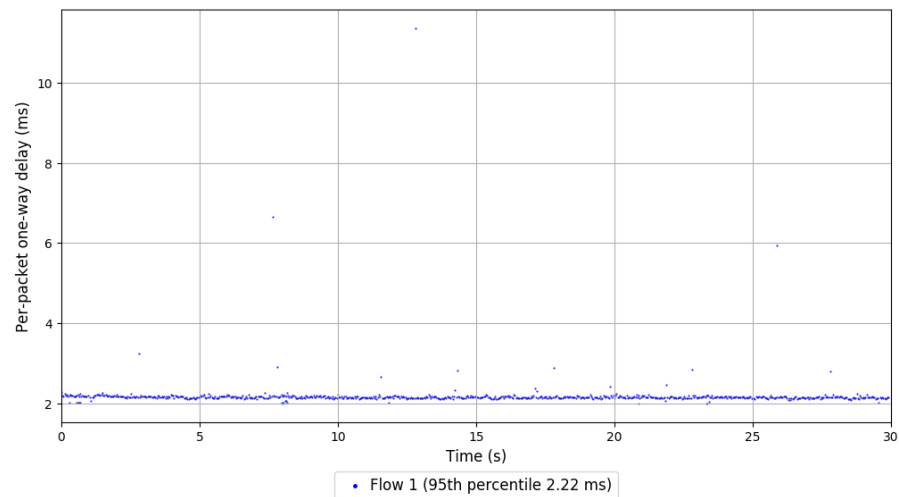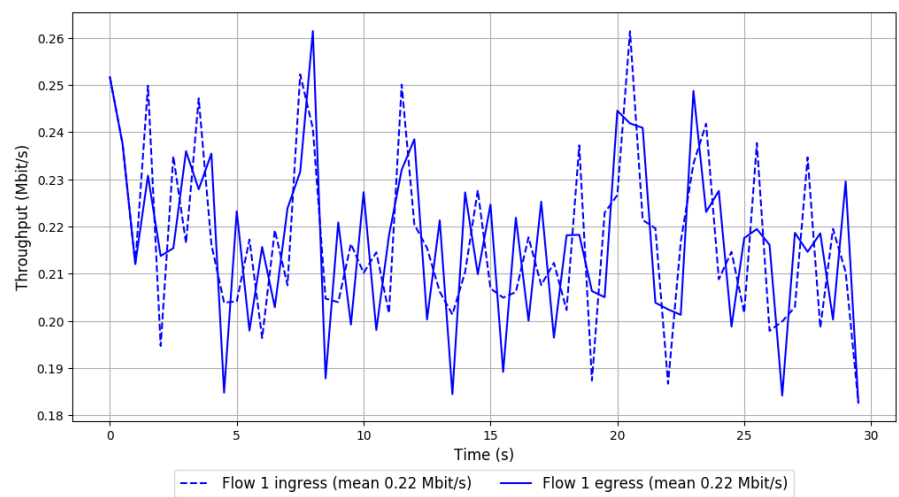
Run 6: Report of SCReAM — Data Link

```
Run 7: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 20:53:58 +0000
End at: Sun, 16 Jul 2017 20:54:28 +0000
Local clock offset: -2.829 ms
Remote clock offset: 1.613 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.174 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.174 ms
Loss rate: 0.00%
```
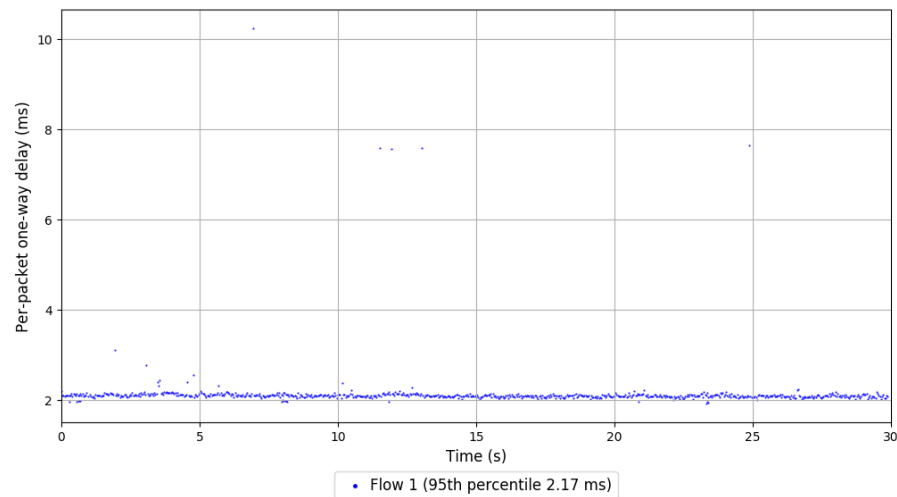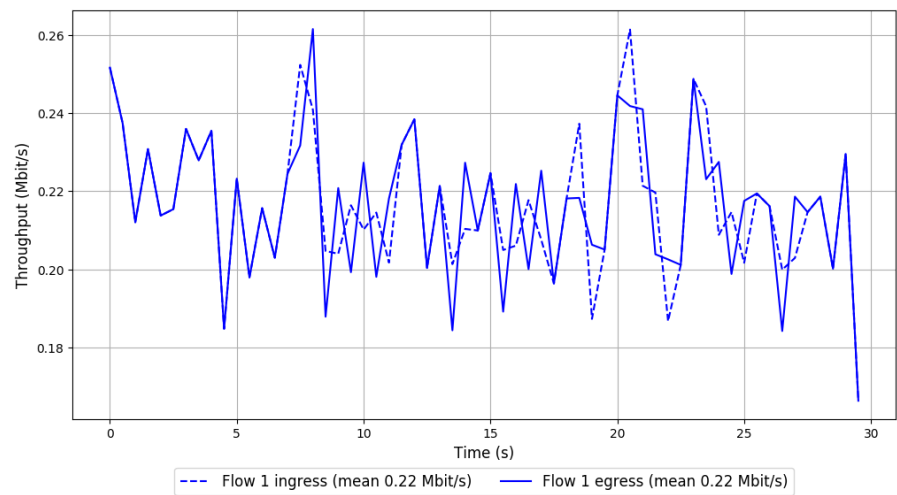
Run 7: Report of SCReAM — Data Link

```
Run 8: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 21:10:50 +0000
End at: Sun, 16 Jul 2017 21:11:20 +0000
Local clock offset: -2.981 ms
Remote clock offset: 2.415 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:17 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.216 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.216 ms
Loss rate: 0.00%
```
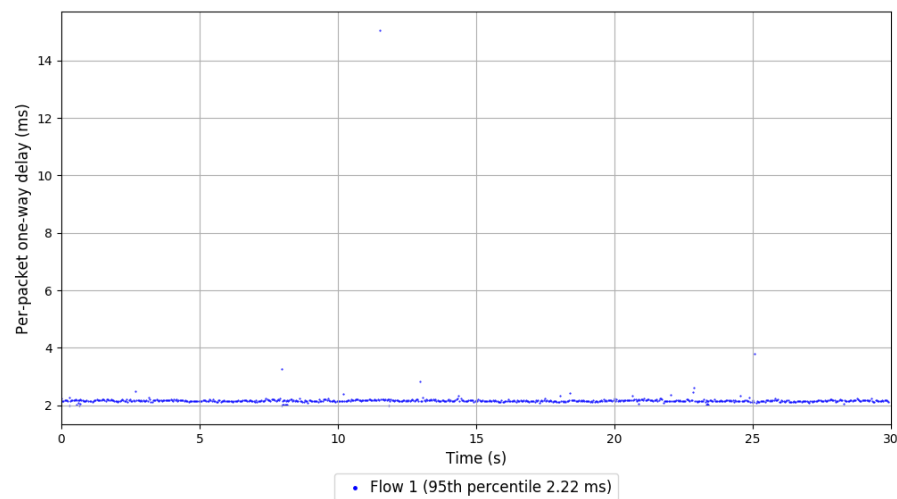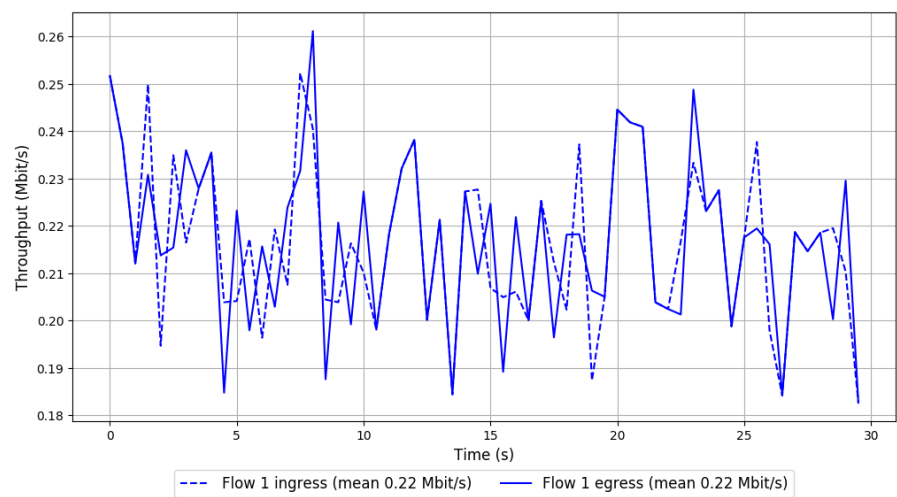
Run 8: Report of SCReAM — Data Link

```
Run 9: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 21:27:43 +0000
End at: Sun, 16 Jul 2017 21:28:13 +0000
Local clock offset: -3.423 ms
Remote clock offset: 2.209 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:17 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.228 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.228 ms
Loss rate: 0.00%
```
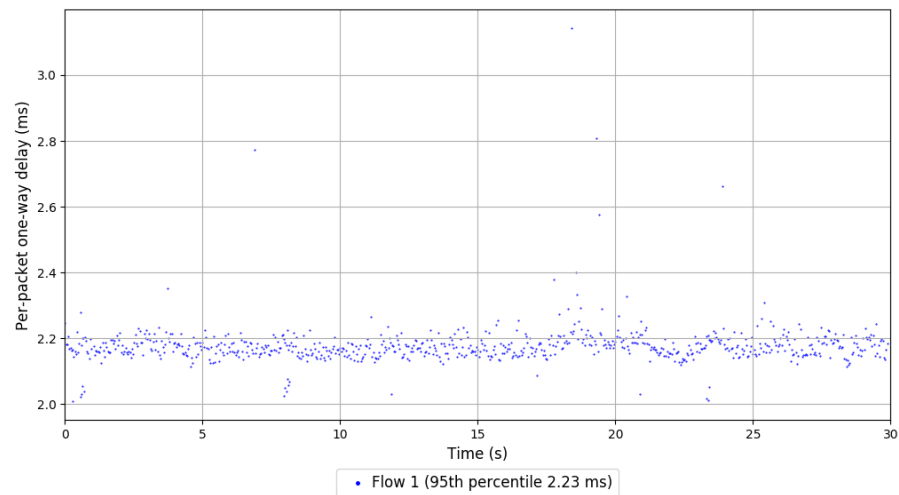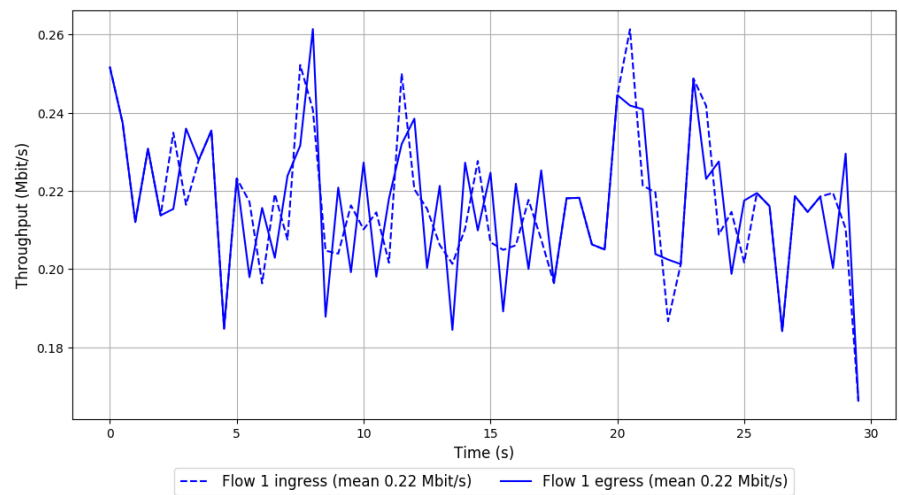
Run 9: Report of SCReAM — Data Link

```
Run 10: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 21:44:39 +0000
End at: Sun, 16 Jul 2017 21:45:09 +0000
Local clock offset: -3.476 ms
Remote clock offset: 1.979 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:18 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.353 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.353 ms
Loss rate: 0.00%
```
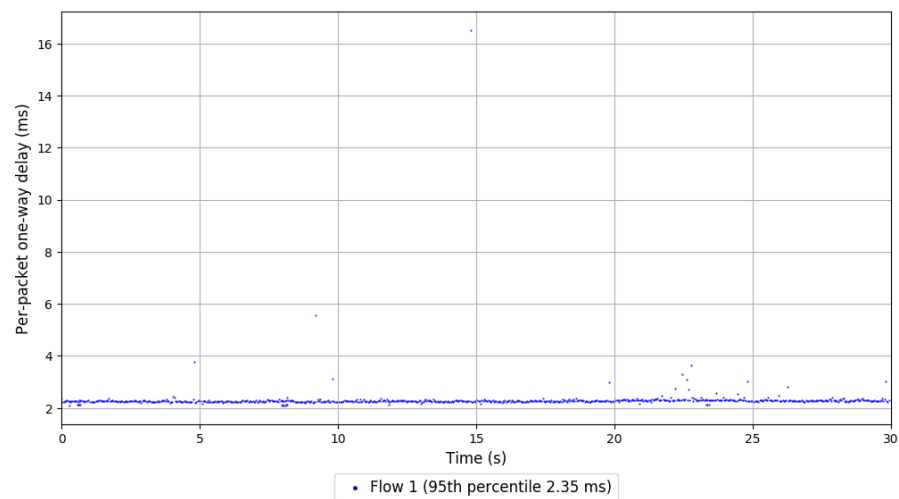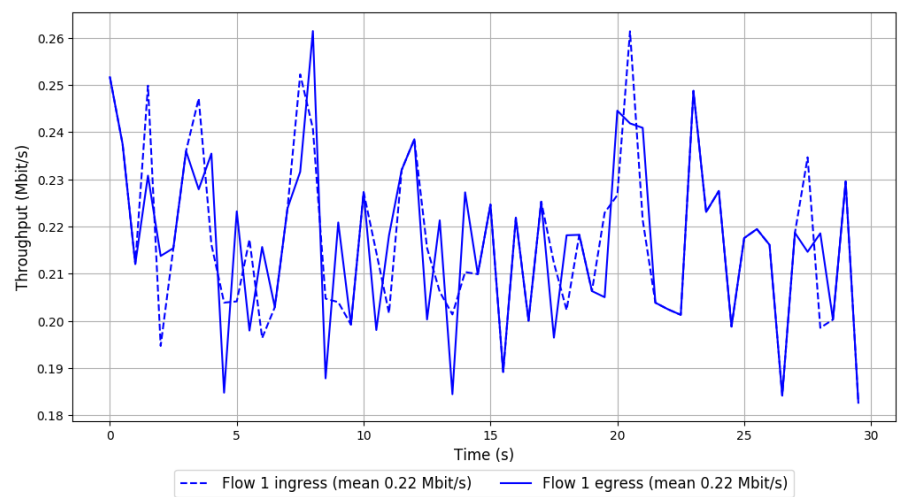
Run 10: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 2.35 ms)

```
Run 1: Statistics of Sprout

Start at: Sun, 16 Jul 2017 19:21:28 +0000
End at: Sun, 16 Jul 2017 19:21:58 +0000
Local clock offset: -1.37 ms
Remote clock offset: -0.76 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:25 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.17 Mbit/s
95th percentile per-packet one-way delay: 11.294 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.17 Mbit/s
95th percentile per-packet one-way delay: 11.294 ms
Loss rate: 0.00%
```
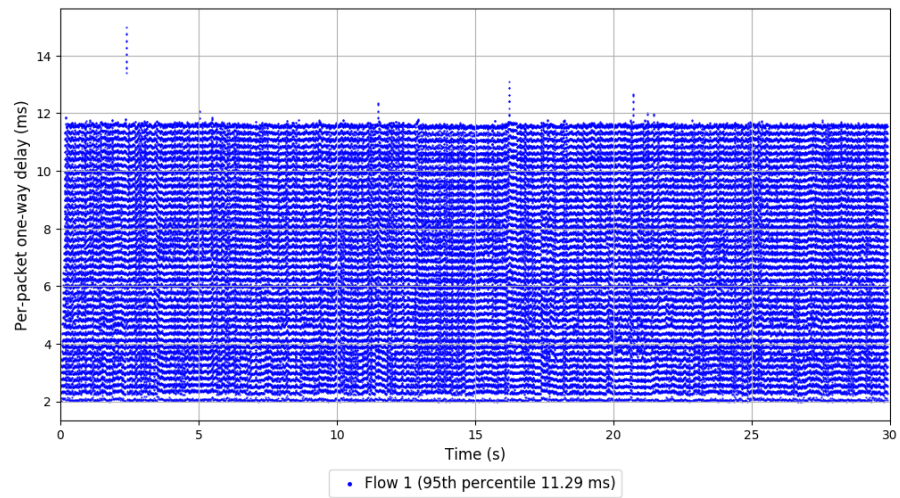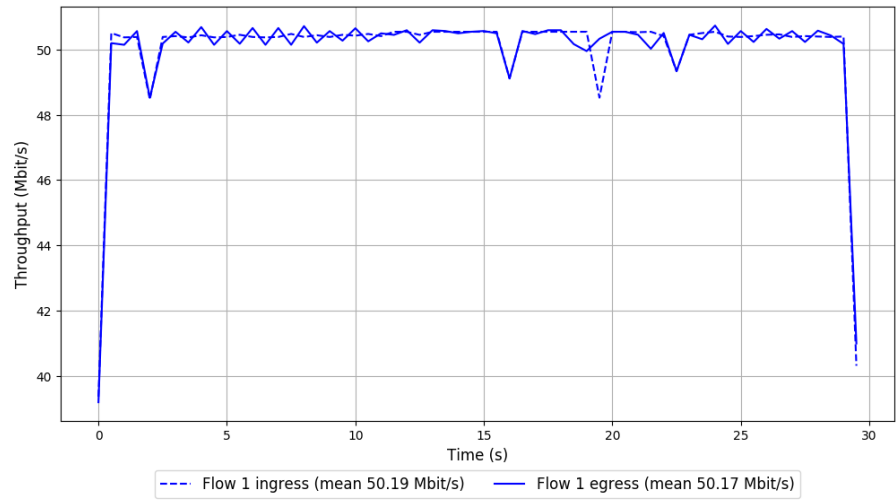
Run 1: Report of Sprout — Data Link

Flow 1 ingress (mean 50.19 Mbit/s)   Flow 1 egress (mean 50.17 Mbit/s)

Flow 1 (95th percentile 11.29 ms)

```
Run 2: Statistics of Sprout

Start at: Sun, 16 Jul 2017 19:38:30 +0000
End at: Sun, 16 Jul 2017 19:39:00 +0000
Local clock offset: -1.649 ms
Remote clock offset: -0.686 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:26 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.17 Mbit/s
95th percentile per-packet one-way delay: 10.932 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.17 Mbit/s
95th percentile per-packet one-way delay: 10.932 ms
Loss rate: 0.00%
```
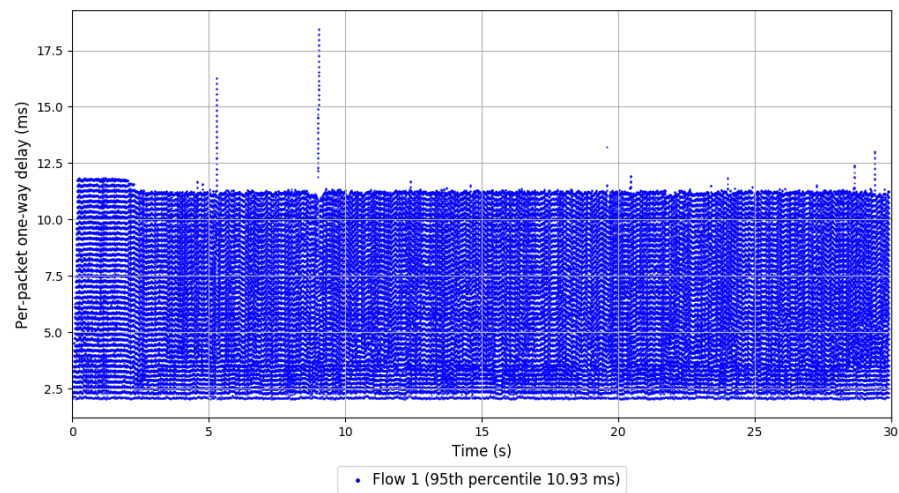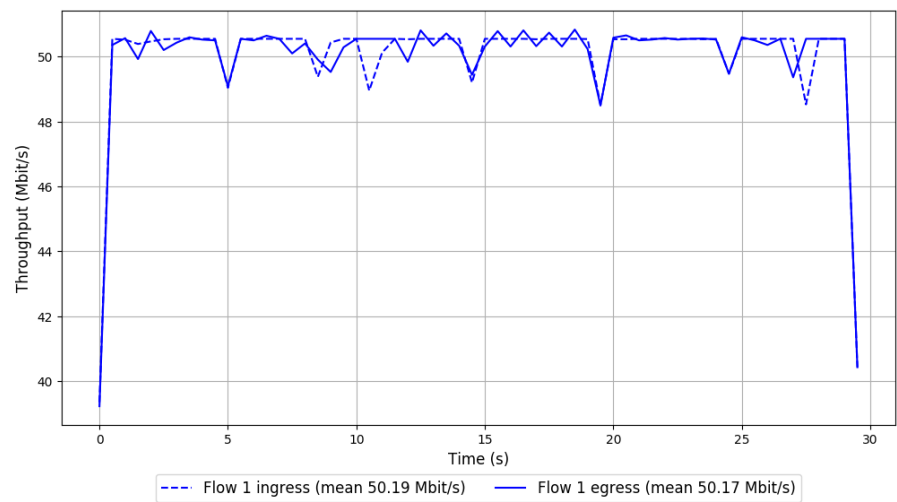
Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: Sun, 16 Jul 2017 19:55:23 +0000
End at: Sun, 16 Jul 2017 19:55:53 +0000
Local clock offset: -1.821 ms
Remote clock offset: -0.233 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:32 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 10.929 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 10.929 ms
Loss rate: 0.00%
```
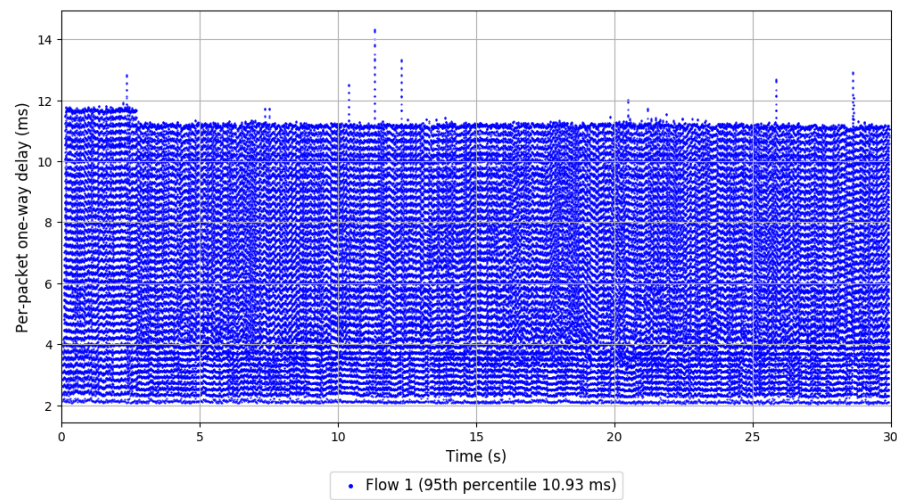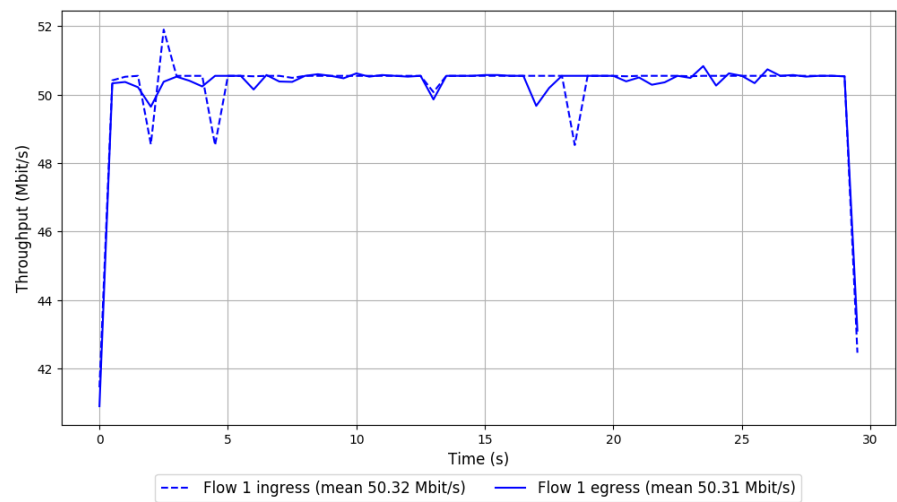
Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: Sun, 16 Jul 2017 20:12:15 +0000
End at: Sun, 16 Jul 2017 20:12:45 +0000
Local clock offset: -2.107 ms
Remote clock offset: 0.698 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:33 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 11.363 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 11.363 ms
Loss rate: 0.00%
```
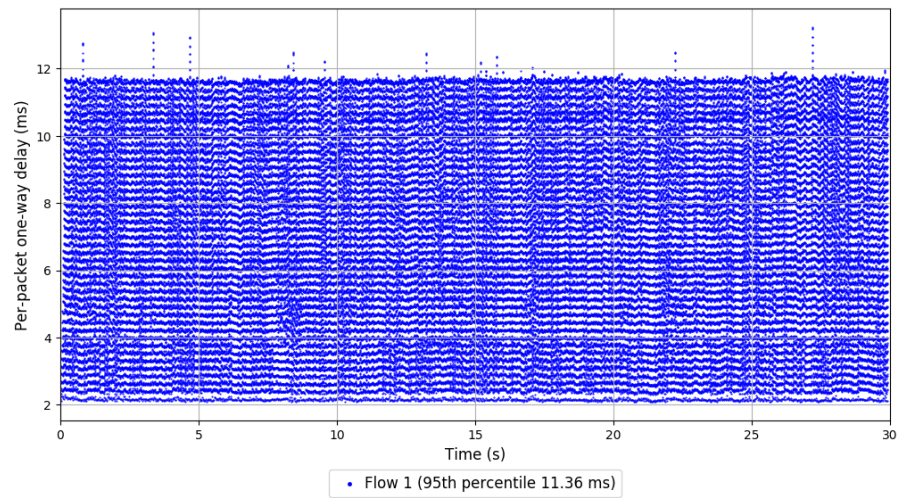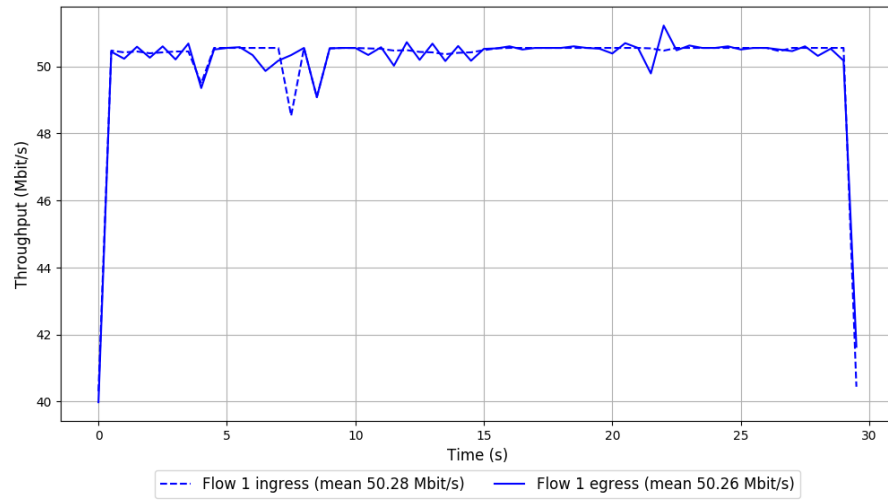
Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: Sun, 16 Jul 2017 20:29:08 +0000
End at: Sun, 16 Jul 2017 20:29:38 +0000
Local clock offset: -2.352 ms
Remote clock offset: 1.071 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:40 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 10.905 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 10.905 ms
Loss rate: 0.00%
```
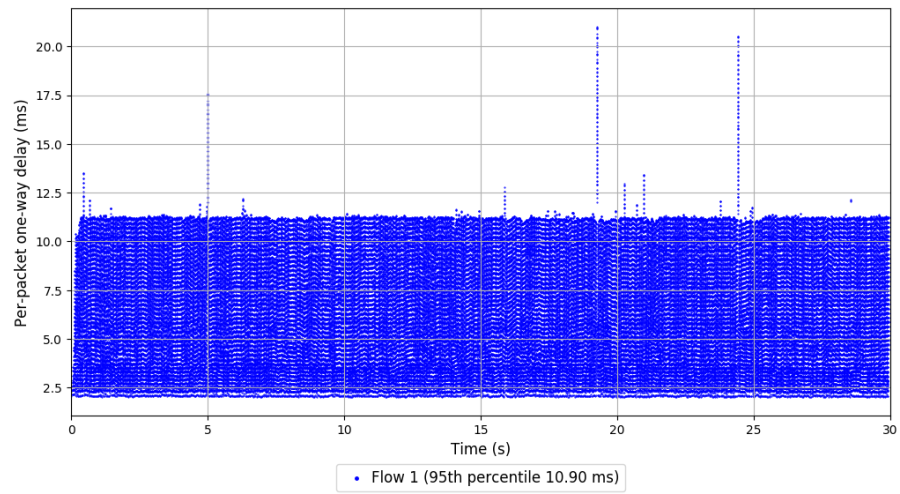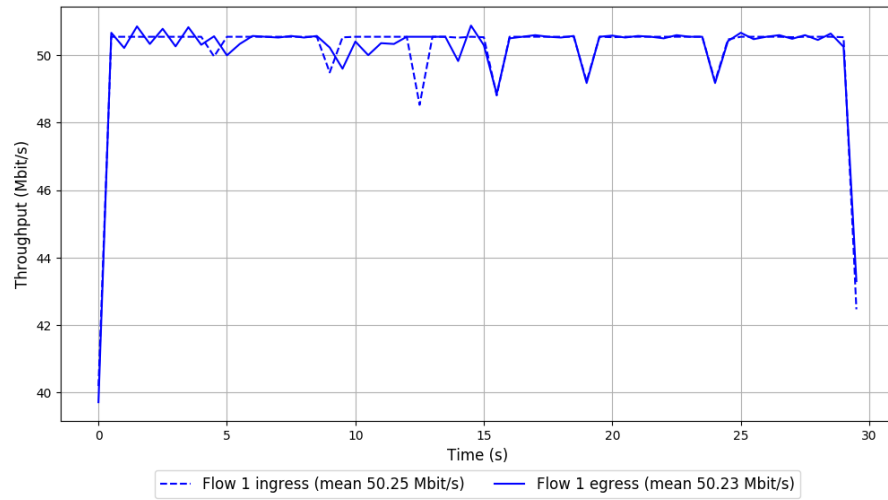
Run 5: Report of Sprout — Data Link

Flow 1 ingress (mean 50.25 Mbit/s) ---- Flow 1 egress (mean 50.23 Mbit/s)

Flow 1 (95th percentile 10.90 ms)

```
Run 6: Statistics of Sprout

Start at: Sun, 16 Jul 2017 20:46:05 +0000
End at: Sun, 16 Jul 2017 20:46:35 +0000
Local clock offset: -2.673 ms
Remote clock offset: 1.356 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:41 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 11.728 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 11.728 ms
Loss rate: 0.00%
```
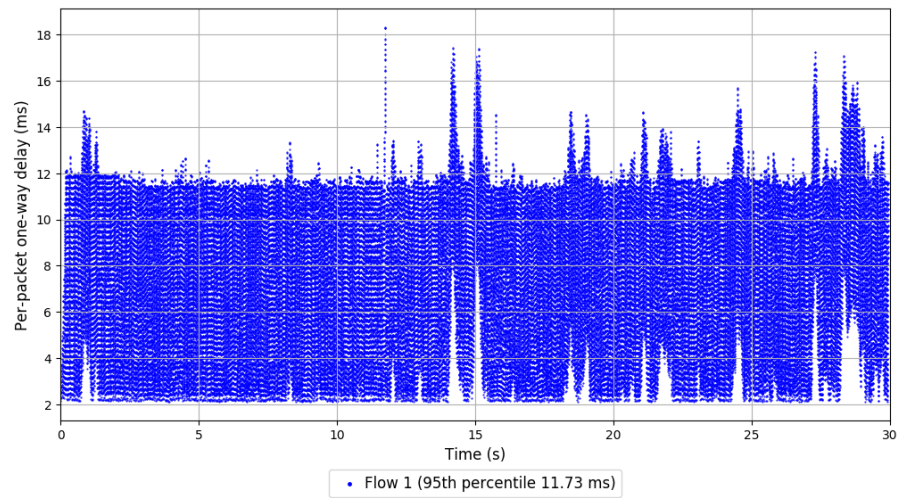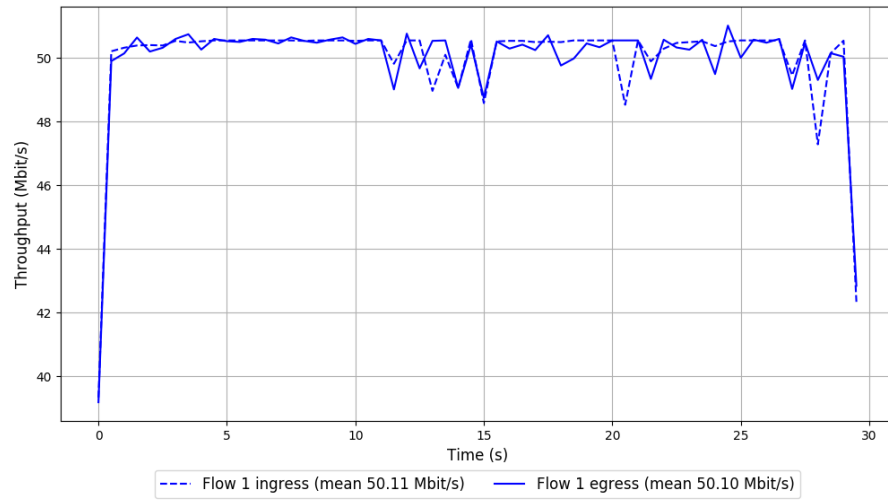
Run 6: Report of Sprout — Data Link

```
Run 7: Statistics of Sprout

Start at: Sun, 16 Jul 2017 21:02:51 +0000
End at: Sun, 16 Jul 2017 21:03:21 +0000
Local clock offset: -2.83 ms
Remote clock offset: 2.107 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:48 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 10.827 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 10.827 ms
Loss rate: 0.00%
```
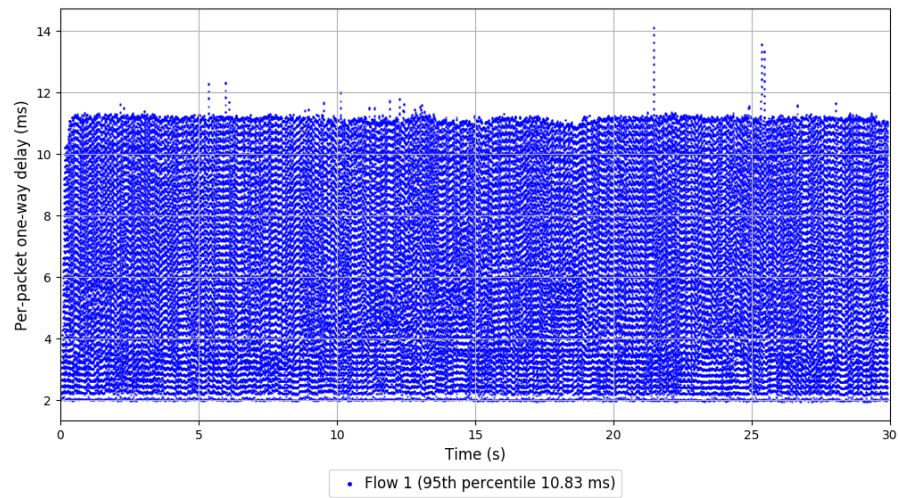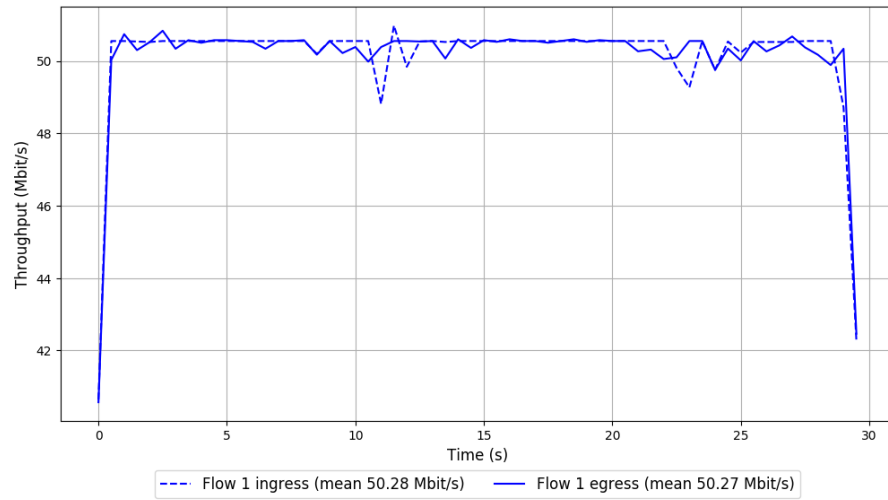
Run 7: Report of Sprout — Data Link

Flow 1 ingress (mean 50.28 Mbit/s) --- Flow 1 egress (mean 50.27 Mbit/s)

• Flow 1 (95th percentile 10.83 ms)

```
Run 8: Statistics of Sprout

Start at: Sun, 16 Jul 2017 21:19:44 +0000
End at: Sun, 16 Jul 2017 21:20:14 +0000
Local clock offset: -3.299 ms
Remote clock offset: 2.23 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:49 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 10.859 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 10.859 ms
Loss rate: 0.00%
```
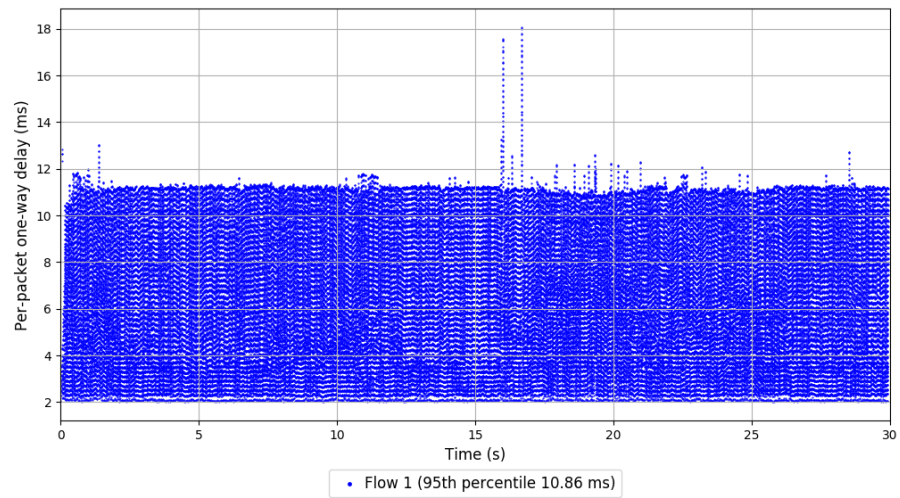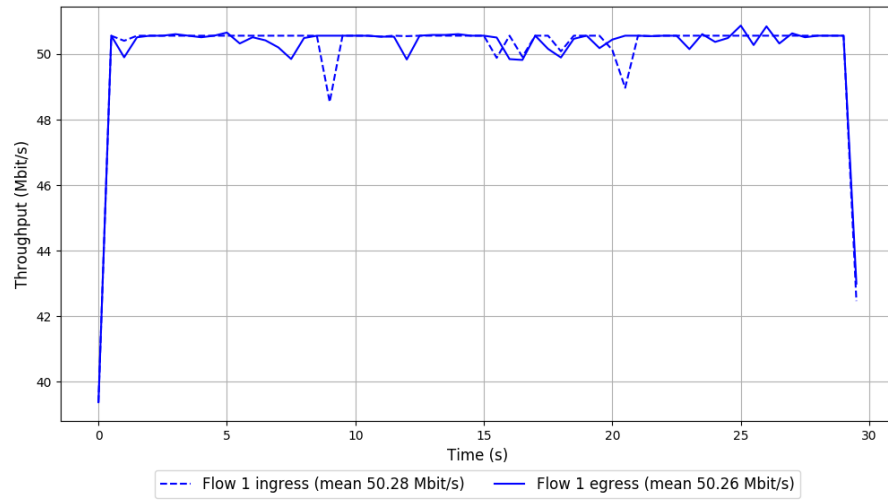
Run 8: Report of Sprout — Data Link

Flow 1 ingress (mean 50.28 Mbit/s)   Flow 1 egress (mean 50.26 Mbit/s)

Flow 1 (95th percentile 10.86 ms)

```
Run 9: Statistics of Sprout

Start at: Sun, 16 Jul 2017 21:36:40 +0000
End at: Sun, 16 Jul 2017 21:37:10 +0000
Local clock offset: -3.446 ms
Remote clock offset: 2.094 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:55 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.34 Mbit/s
95th percentile per-packet one-way delay: 11.384 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.34 Mbit/s
95th percentile per-packet one-way delay: 11.384 ms
Loss rate: 0.00%
```
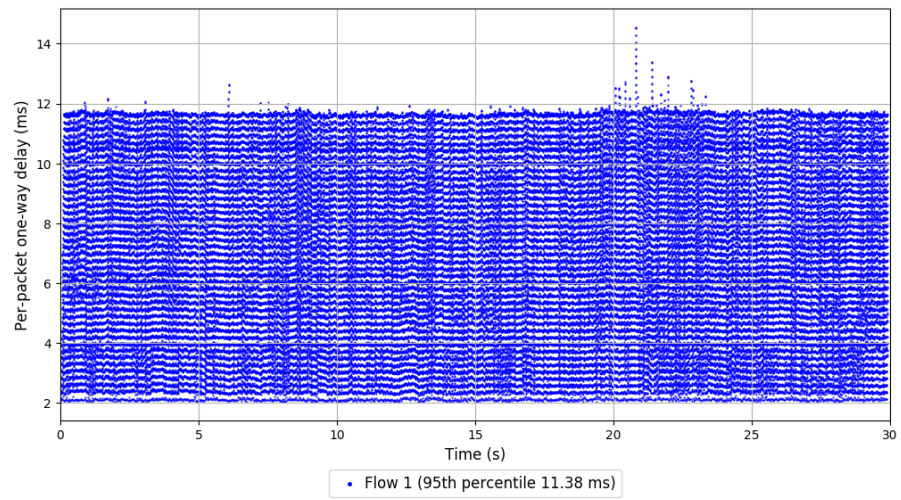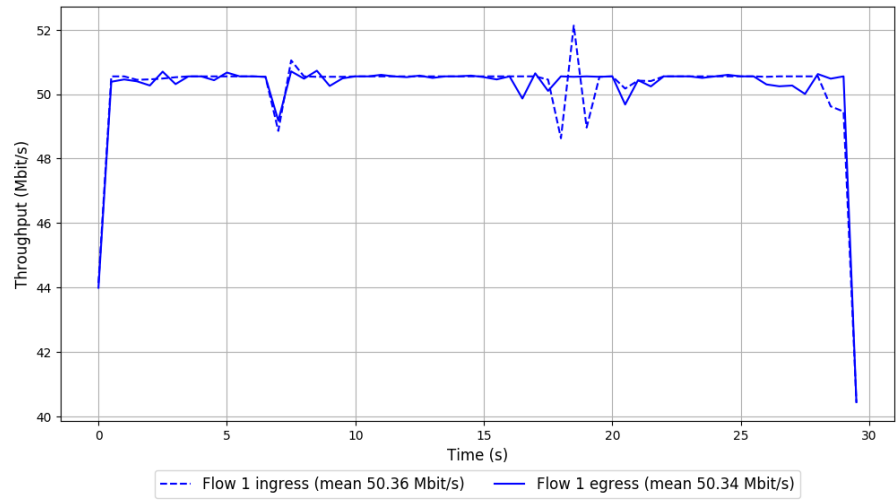
Run 9: Report of Sprout — Data Link

Flow 1 ingress (mean 50.36 Mbit/s)   Flow 1 egress (mean 50.34 Mbit/s)

• Flow 1 (95th percentile 11.38 ms)

```
Run 10: Statistics of Sprout

Start at: Sun, 16 Jul 2017 21:53:44 +0000
End at: Sun, 16 Jul 2017 21:54:14 +0000
Local clock offset: -3.332 ms
Remote clock offset: 1.58 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:25:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.28 Mbit/s
95th percentile per-packet one-way delay: 10.905 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.28 Mbit/s
95th percentile per-packet one-way delay: 10.905 ms
Loss rate: 0.00%
```
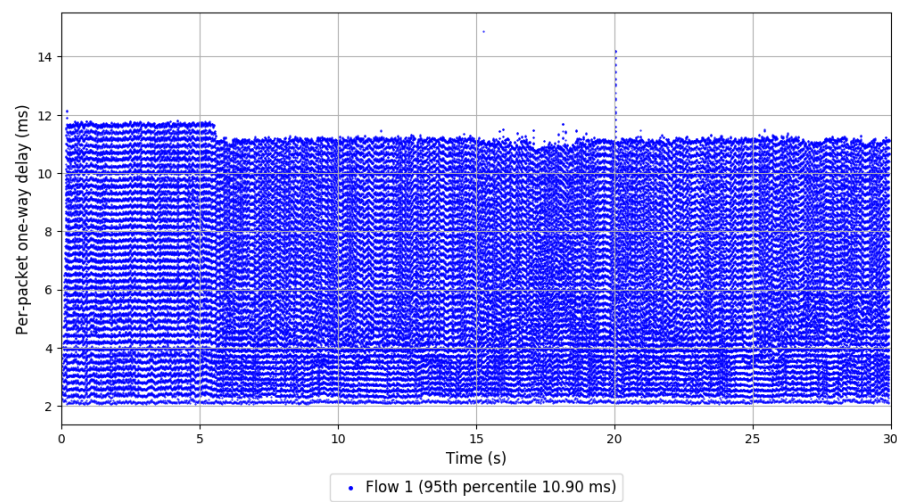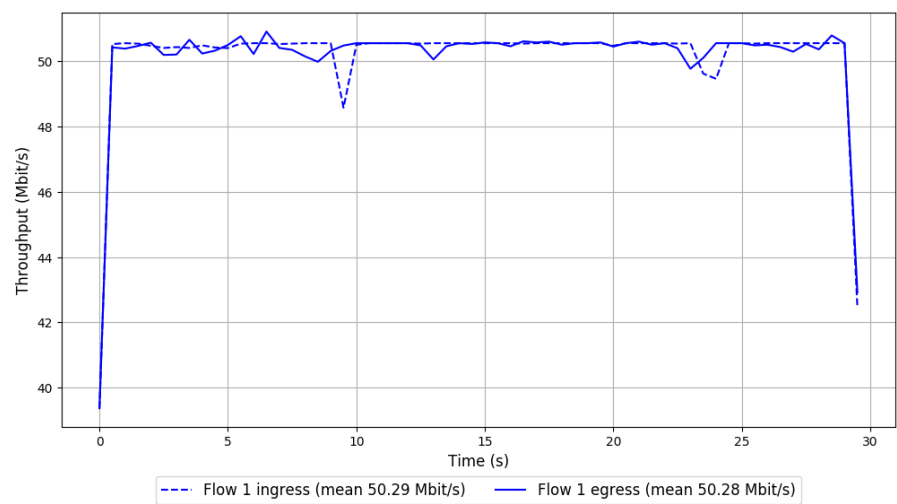
Run 10: Report of Sprout — Data Link

Flow 1 ingress (mean 50.29 Mbit/s)   Flow 1 egress (mean 50.28 Mbit/s)

Flow 1 (95th percentile 10.90 ms)

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

Start at: Sun, 16 Jul 2017 19:23:42 +0000
End at: Sun, 16 Jul 2017 19:24:12 +0000
Local clock offset: -1.43 ms
Remote clock offset: -0.752 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:26:18 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.84 Mbit/s
95th percentile per-packet one-way delay: 2.505 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.84 Mbit/s
95th percentile per-packet one-way delay: 2.505 ms
Loss rate: 0.00%
```
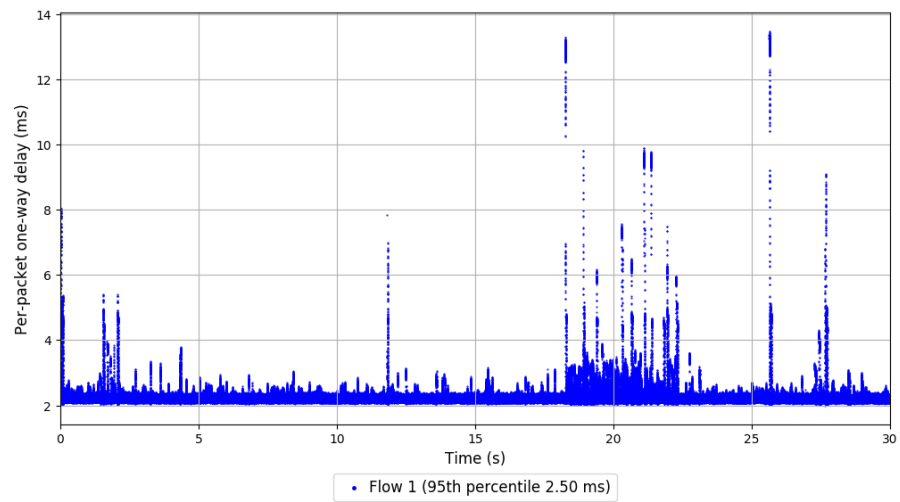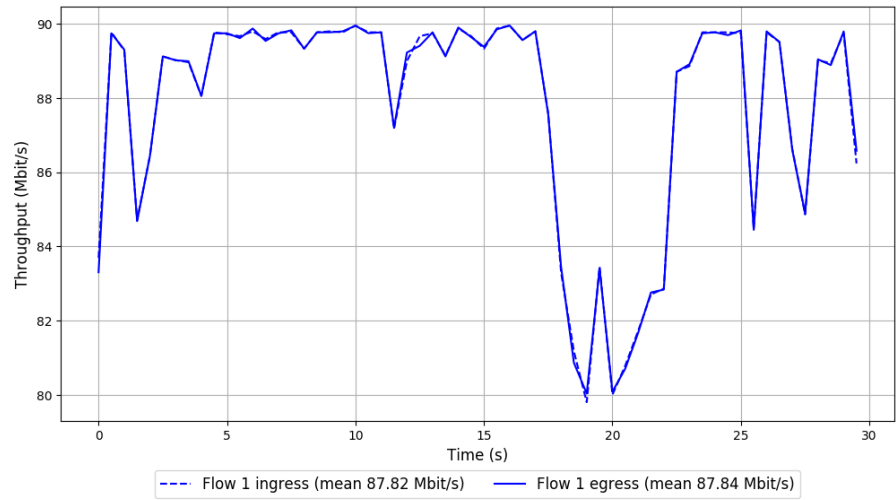
Run 1: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 87.82 Mbit/s) — — — Flow 1 egress (mean 87.84 Mbit/s)

Flow 1 (95th percentile 2.50 ms)

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

Start at: Sun, 16 Jul 2017 19:40:45 +0000
End at: Sun, 16 Jul 2017 19:41:15 +0000
Local clock offset: -1.629 ms
Remote clock offset: -0.662 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:26:18 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.00 Mbit/s
95th percentile per-packet one-way delay: 2.641 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.00 Mbit/s
95th percentile per-packet one-way delay: 2.641 ms
Loss rate: 0.00%
```
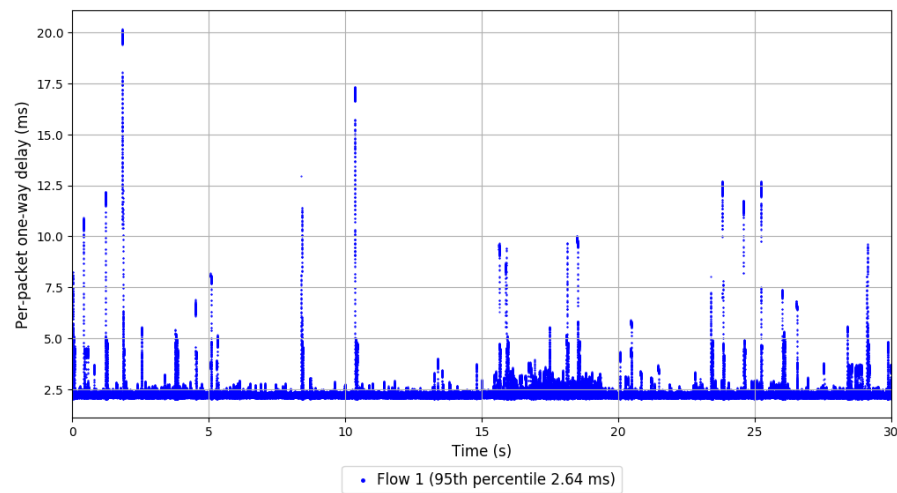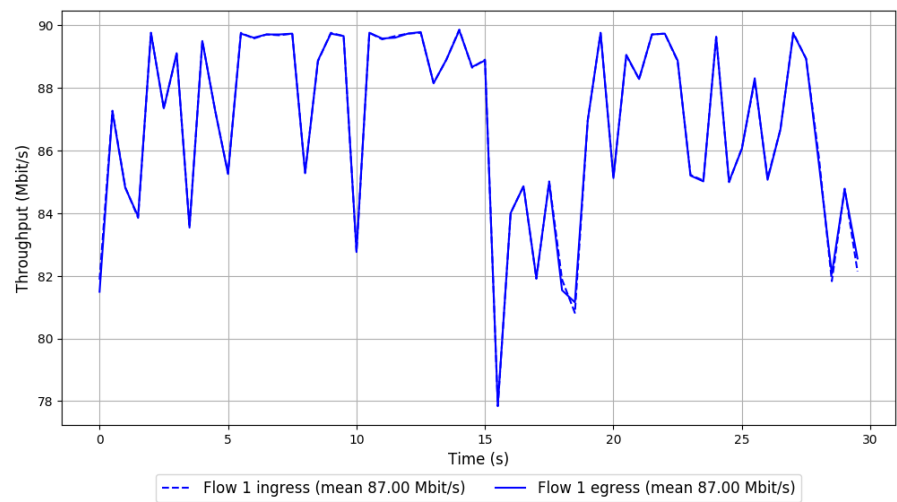
Run 2: Report of TaoVA-100x — Data Link

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

Start at: Sun, 16 Jul 2017 19:57:37 +0000
End at: Sun, 16 Jul 2017 19:58:08 +0000
Local clock offset: -1.841 ms
Remote clock offset: -0.132 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:26:34 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.74 Mbit/s
95th percentile per-packet one-way delay: 2.681 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.74 Mbit/s
95th percentile per-packet one-way delay: 2.681 ms
Loss rate: 0.00%
```
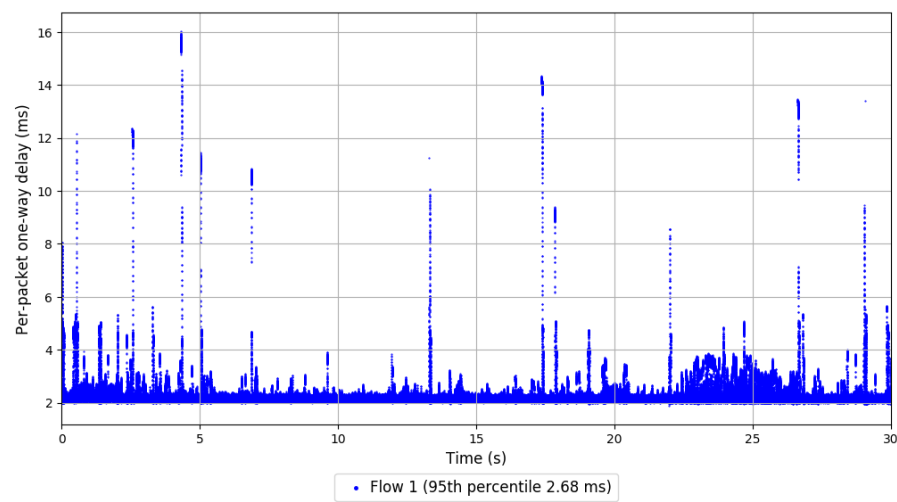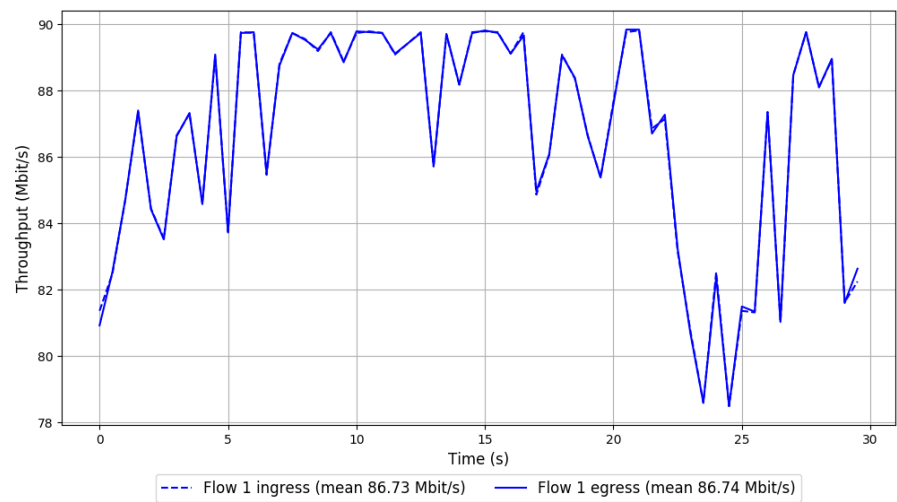
Run 3: Report of TaoVA-100x — Data Link

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

Start at: Sun, 16 Jul 2017 20:14:30 +0000
End at: Sun, 16 Jul 2017 20:15:00 +0000
Local clock offset: -2.136 ms
Remote clock offset: 0.662 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:26:40 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.39 Mbit/s
95th percentile per-packet one-way delay: 2.328 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.39 Mbit/s
95th percentile per-packet one-way delay: 2.328 ms
Loss rate: 0.00%
```
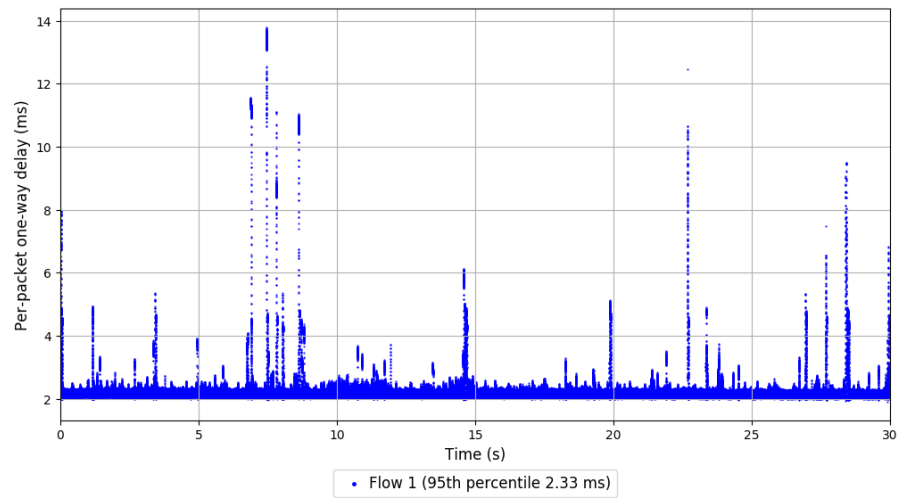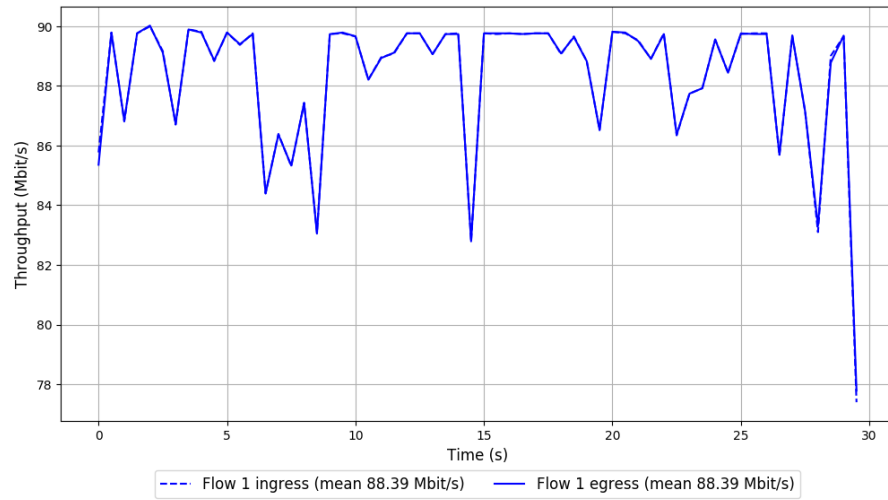
Run 4: Report of TaoVA-100x — Data Link

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

Start at: Sun, 16 Jul 2017 20:31:22 +0000
End at: Sun, 16 Jul 2017 20:31:52 +0000
Local clock offset: -2.405 ms
Remote clock offset: 1.105 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:26:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.66 Mbit/s
95th percentile per-packet one-way delay: 2.388 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.66 Mbit/s
95th percentile per-packet one-way delay: 2.388 ms
Loss rate: 0.00%
```
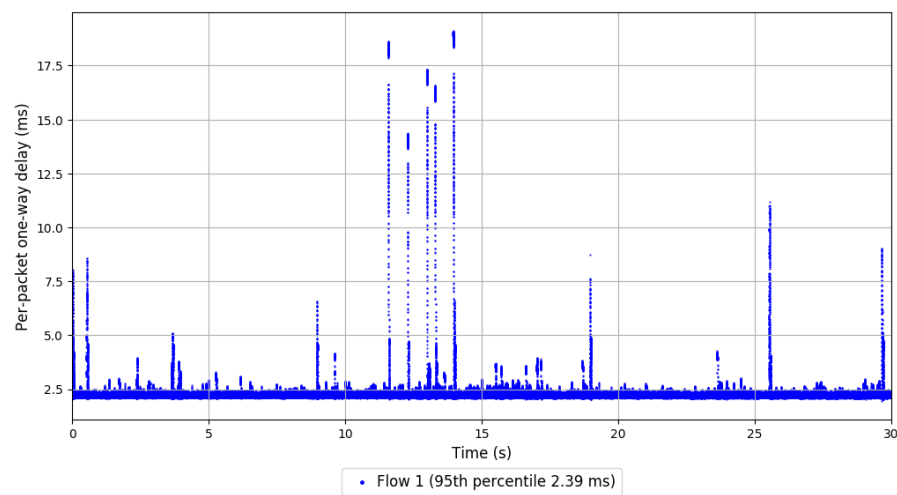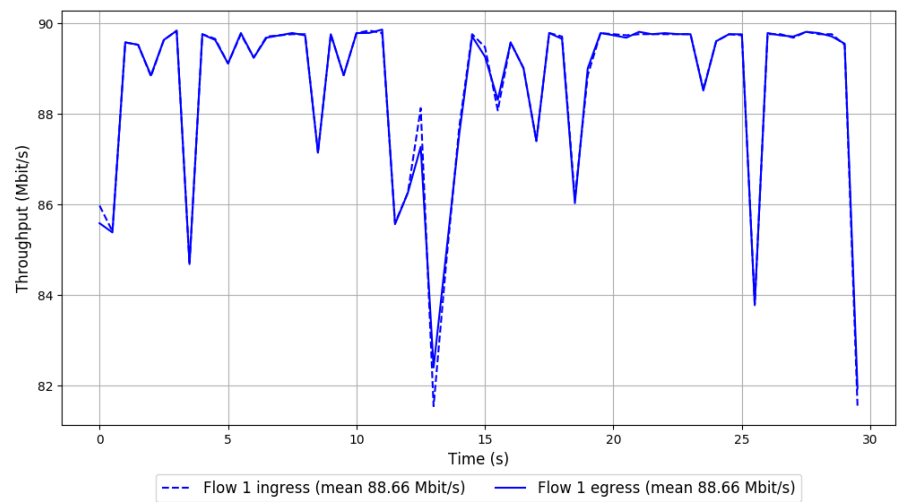
Run 5: Report of TaoVA-100x — Data Link

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

Start at: Sun, 16 Jul 2017 20:48:19 +0000
End at: Sun, 16 Jul 2017 20:48:49 +0000
Local clock offset: -2.639 ms
Remote clock offset: 1.432 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:27:00 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.84 Mbit/s
95th percentile per-packet one-way delay: 2.411 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 87.84 Mbit/s
95th percentile per-packet one-way delay: 2.411 ms
Loss rate: 0.03%
```
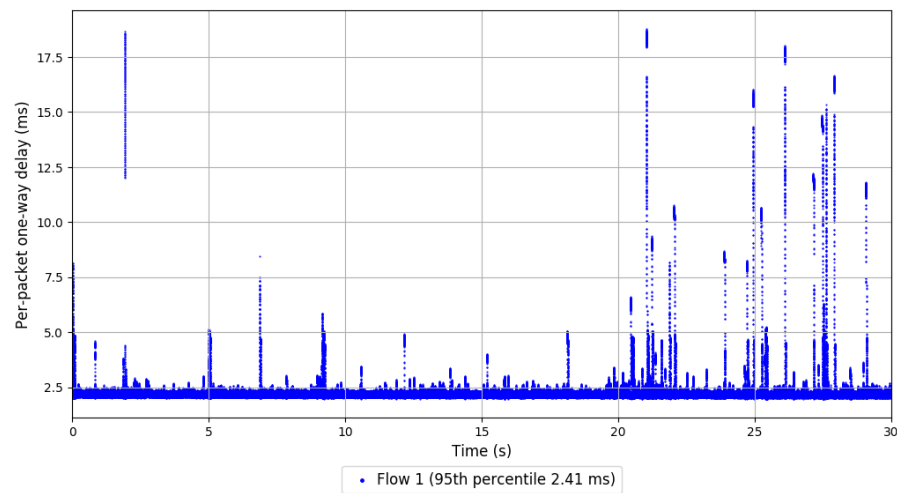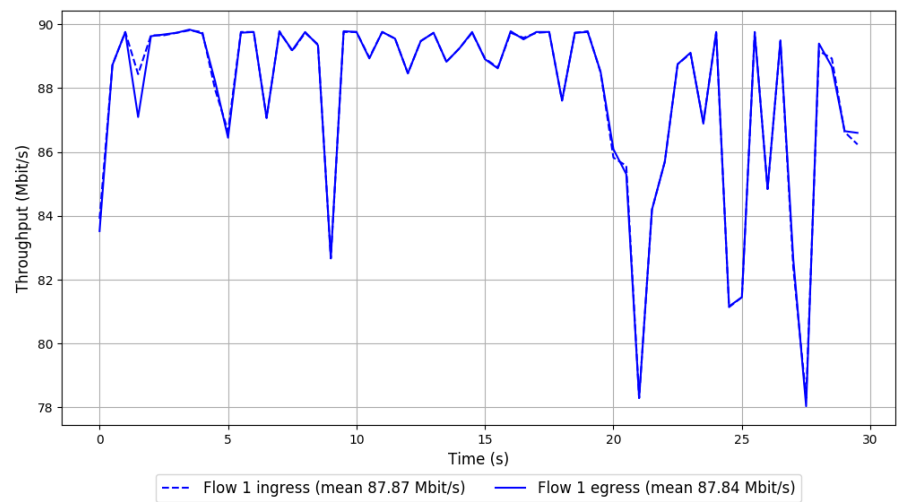
Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 87.87 Mbit/s) --- Flow 1 egress (mean 87.84 Mbit/s)

Flow 1 (95th percentile 2.41 ms)

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

Start at: Sun, 16 Jul 2017 21:05:05 +0000
End at: Sun, 16 Jul 2017 21:05:35 +0000
Local clock offset: -2.977 ms
Remote clock offset: 2.118 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:27:20 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 2.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 2.342 ms
Loss rate: 0.00%
```
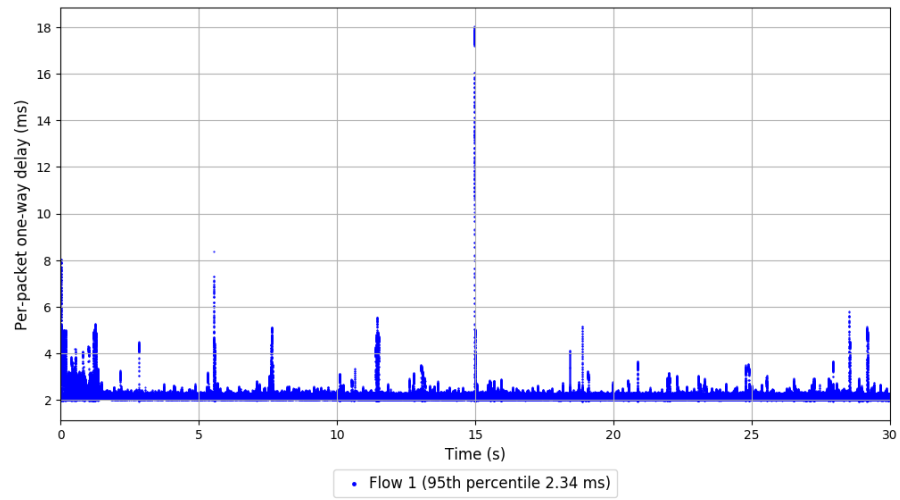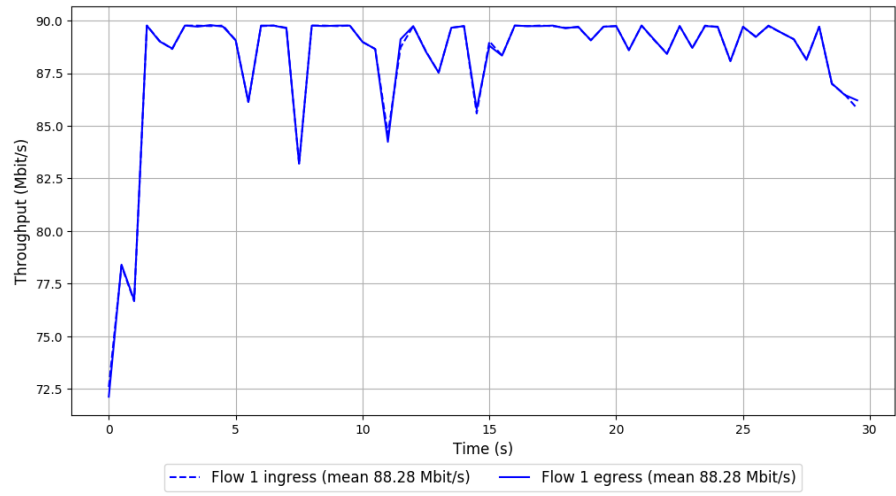
Run 7: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 88.28 Mbit/s) --- Flow 1 egress (mean 88.28 Mbit/s)

Flow 1 (95th percentile 2.34 ms)

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

Start at: Sun, 16 Jul 2017 21:21:58 +0000
End at: Sun, 16 Jul 2017 21:22:28 +0000
Local clock offset: -3.354 ms
Remote clock offset: 2.233 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:27:22 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.40 Mbit/s
95th percentile per-packet one-way delay: 2.610 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.40 Mbit/s
95th percentile per-packet one-way delay: 2.610 ms
Loss rate: 0.00%
```
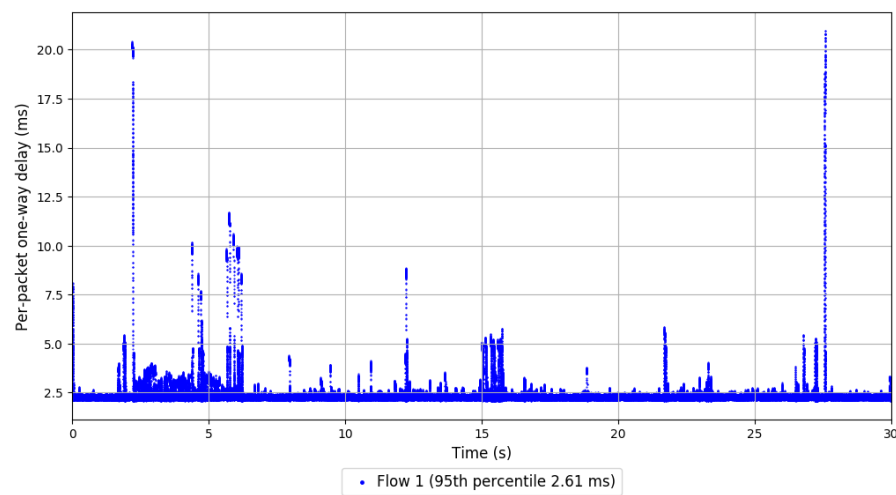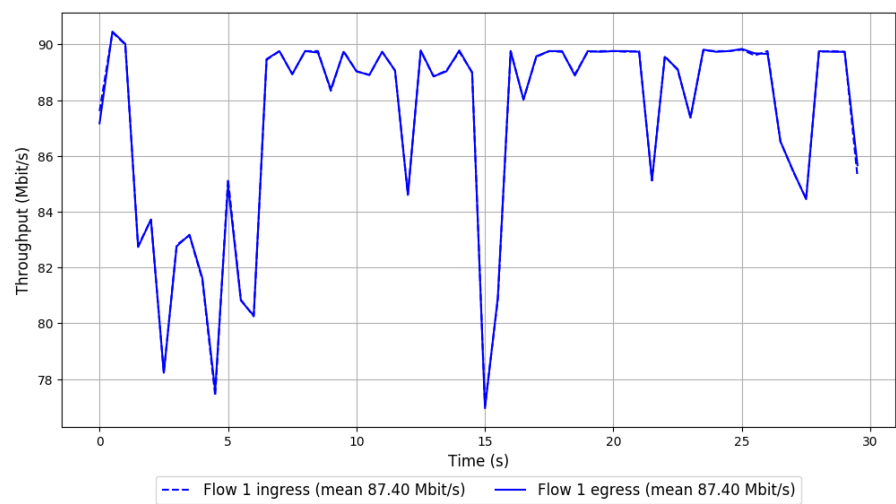
Run 8: Report of TaoVA-100x — Data Link

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

Start at: Sun, 16 Jul 2017 21:38:54 +0000
End at: Sun, 16 Jul 2017 21:39:24 +0000
Local clock offset: -3.592 ms
Remote clock offset: 1.987 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:27:42 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.85 Mbit/s
95th percentile per-packet one-way delay: 2.639 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.85 Mbit/s
95th percentile per-packet one-way delay: 2.639 ms
Loss rate: 0.00%
```
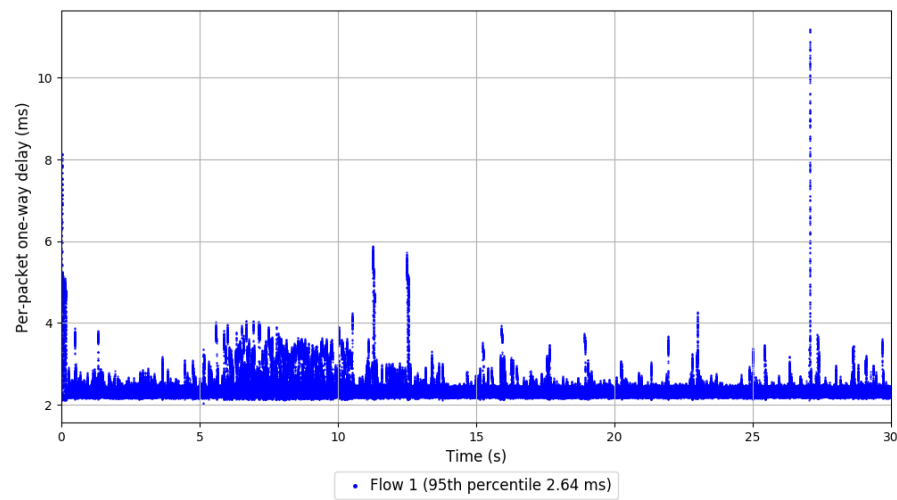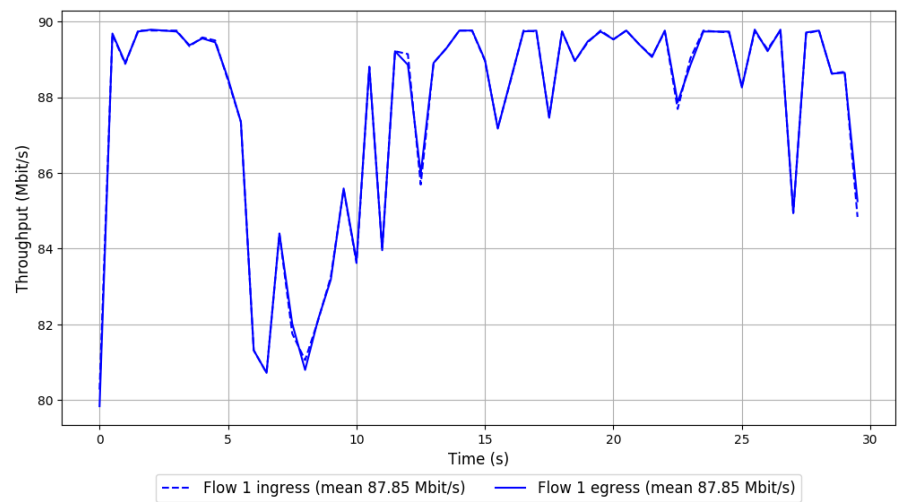
Run 9: Report of TaoVA-100x — Data Link

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

Start at: Sun, 16 Jul 2017 21:55:59 +0000
End at: Sun, 16 Jul 2017 21:56:29 +0000
Local clock offset: -3.315 ms
Remote clock offset: 1.458 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:27:43 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.42 Mbit/s
95th percentile per-packet one-way delay: 2.563 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 87.42 Mbit/s
95th percentile per-packet one-way delay: 2.563 ms
Loss rate: 0.08%
```
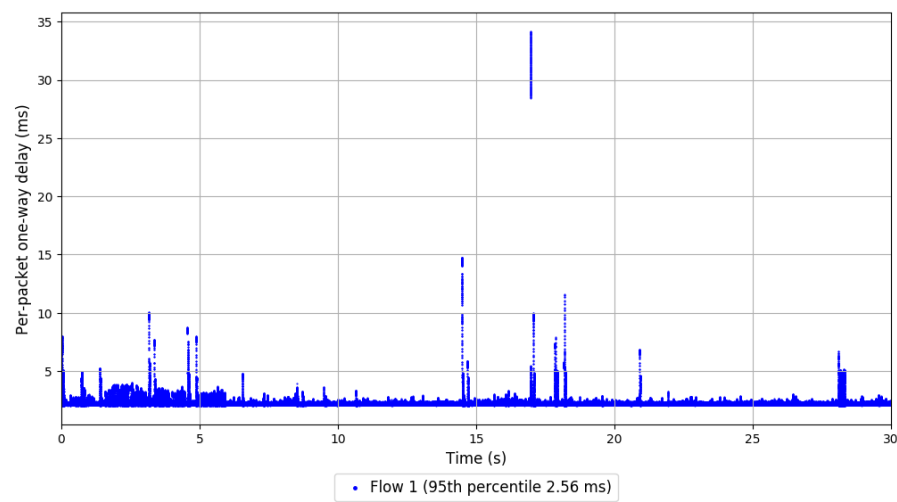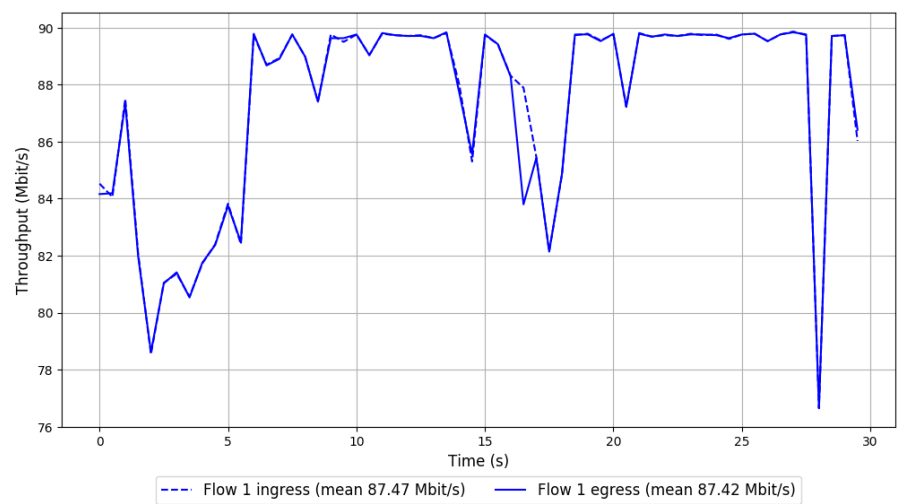
Run 10: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 87.47 Mbit/s) --- Flow 1 egress (mean 87.42 Mbit/s)

Flow 1 (95th percentile 2.56 ms)

```
Run 1: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 19:08:09 +0000
End at: Sun, 16 Jul 2017 19:08:39 +0000
Local clock offset: -1.191 ms
Remote clock offset: -0.857 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:27:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 3.473 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 3.473 ms
Loss rate: 0.00%
```
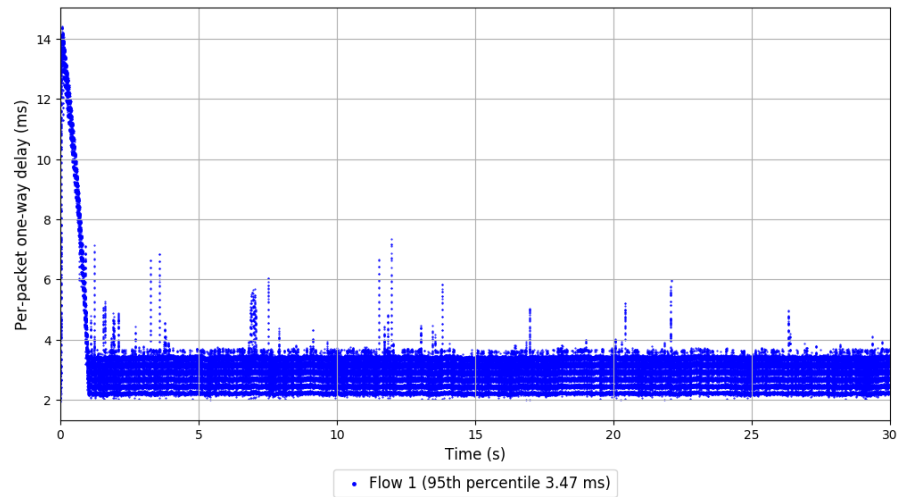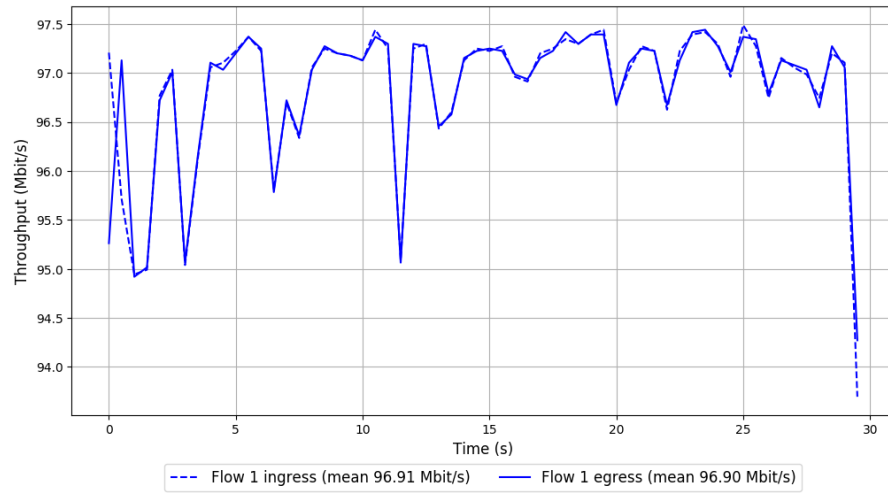
Run 1: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 96.91 Mbit/s)   Flow 1 egress (mean 96.90 Mbit/s)

Flow 1 (95th percentile 3.47 ms)

```
Run 2: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 19:24:54 +0000
End at: Sun, 16 Jul 2017 19:25:24 +0000
Local clock offset: -1.439 ms
Remote clock offset: -0.724 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:27:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 3.622 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 3.622 ms
Loss rate: 0.00%
```
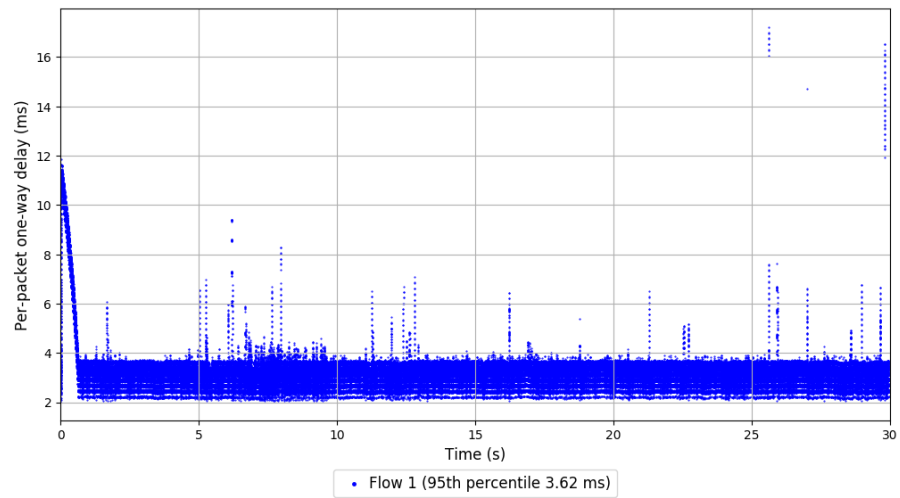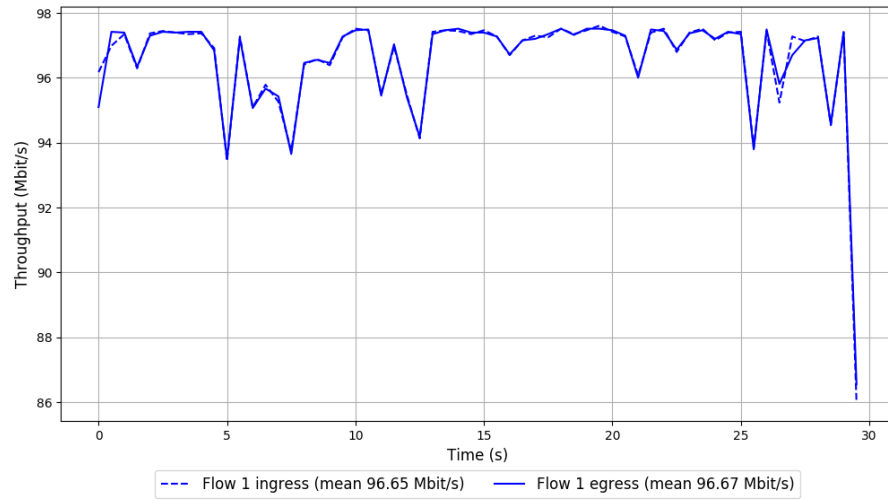
Run 2: Report of TCP Vegas — Data Link

Run 3: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 19:41:57 +0000
End at: Sun, 16 Jul 2017 19:42:27 +0000
Local clock offset: -1.651 ms
Remote clock offset: -0.651 ms

Below is generated by plot.py at Mon, 17 Jul 2017 01:28:10 +0000
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 3.401 ms
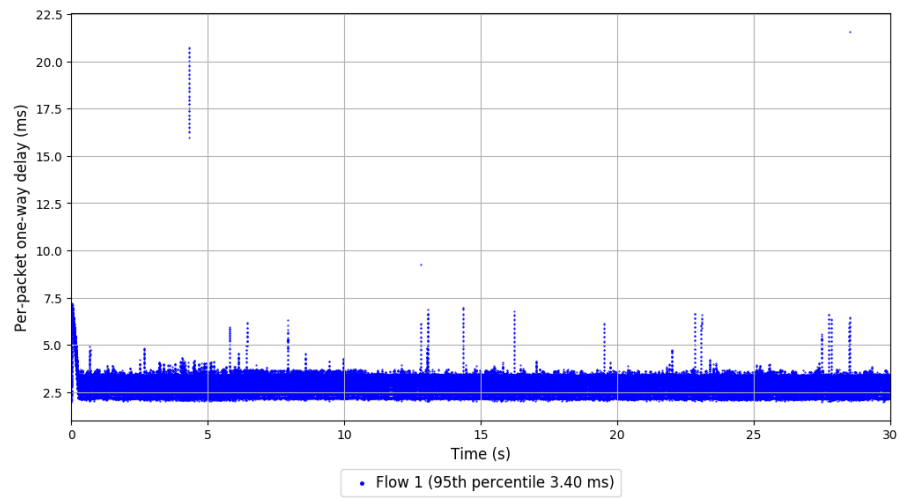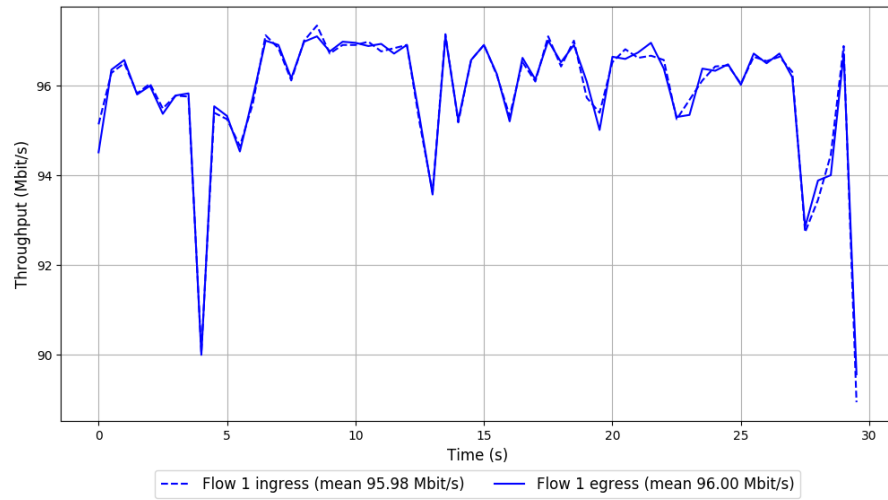Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 3.401 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 95.98 Mbit/s) ---   Flow 1 egress (mean 96.00 Mbit/s) ——

Flow 1 (95th percentile 3.40 ms)

```
Run 4: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 19:58:50 +0000
End at: Sun, 16 Jul 2017 19:59:20 +0000
Local clock offset: -1.867 ms
Remote clock offset: -0.052 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:28:10 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 3.619 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 3.619 ms
Loss rate: 0.00%
```
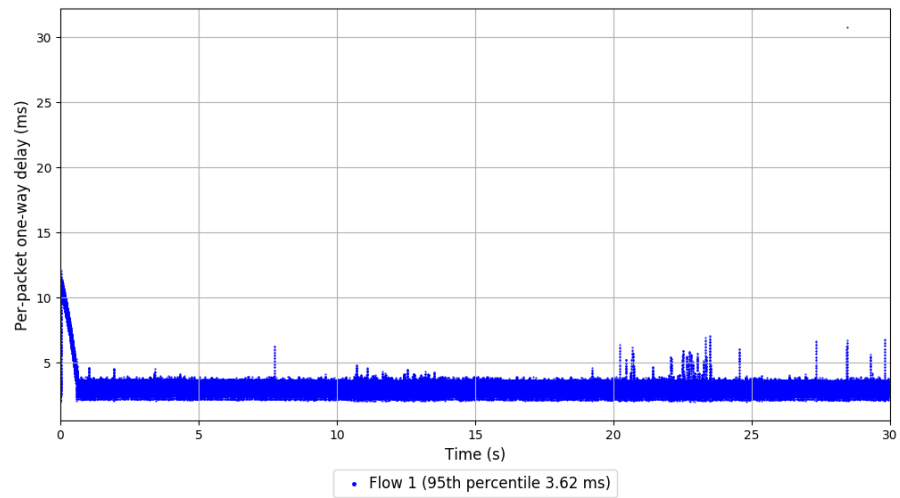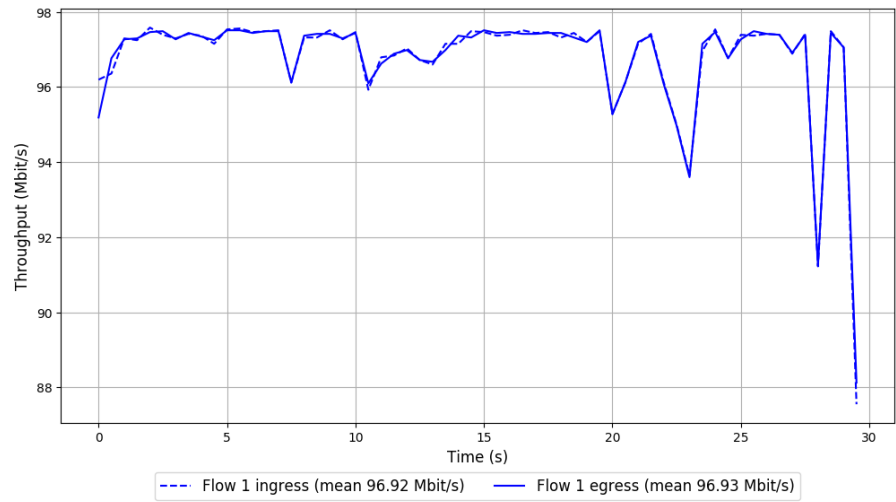
Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 20:15:42 +0000
End at: Sun, 16 Jul 2017 20:16:12 +0000
Local clock offset: -2.186 ms
Remote clock offset: 0.729 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:28:23 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 3.616 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 3.616 ms
Loss rate: 0.00%
```
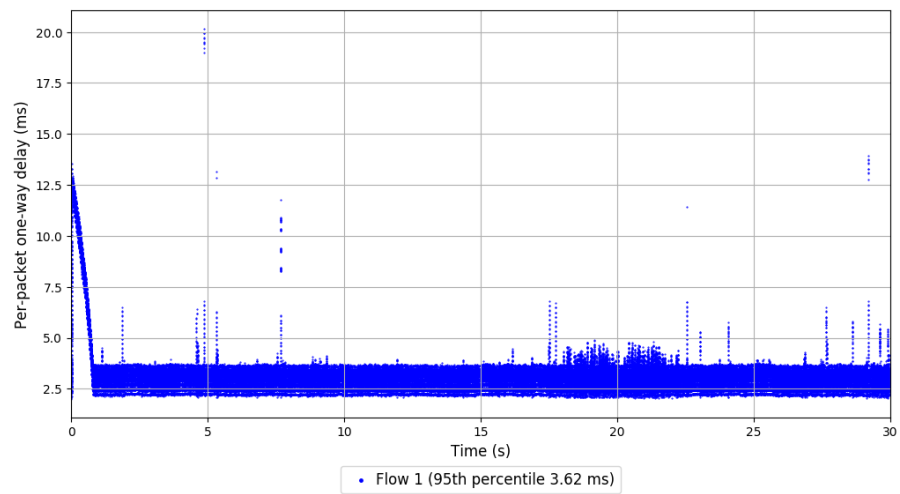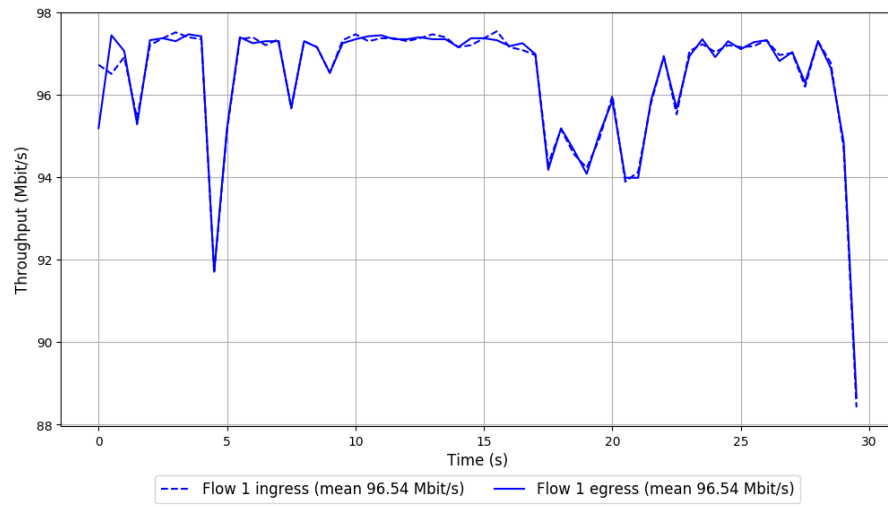
Run 5: Report of TCP Vegas — Data Link

```
Run 6: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 20:32:35 +0000
End at: Sun, 16 Jul 2017 20:33:05 +0000
Local clock offset: -2.409 ms
Remote clock offset: 1.108 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:28:23 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 3.408 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 3.408 ms
Loss rate: 0.00%
```
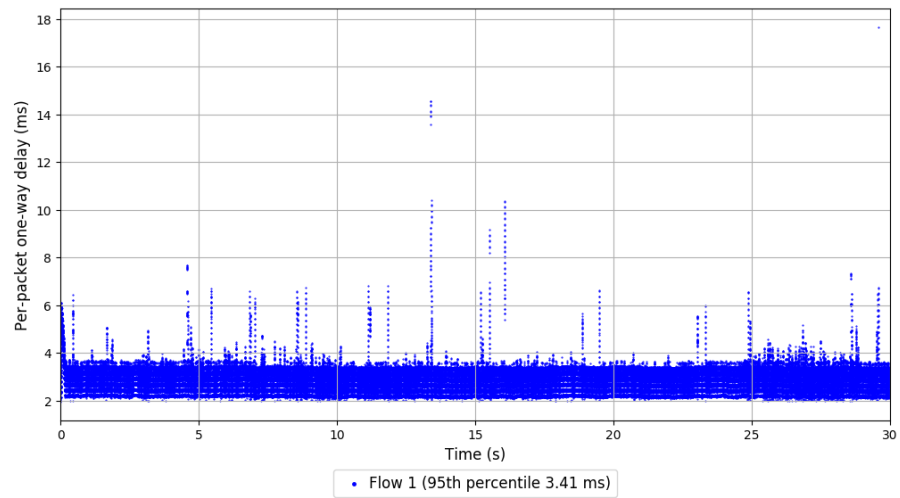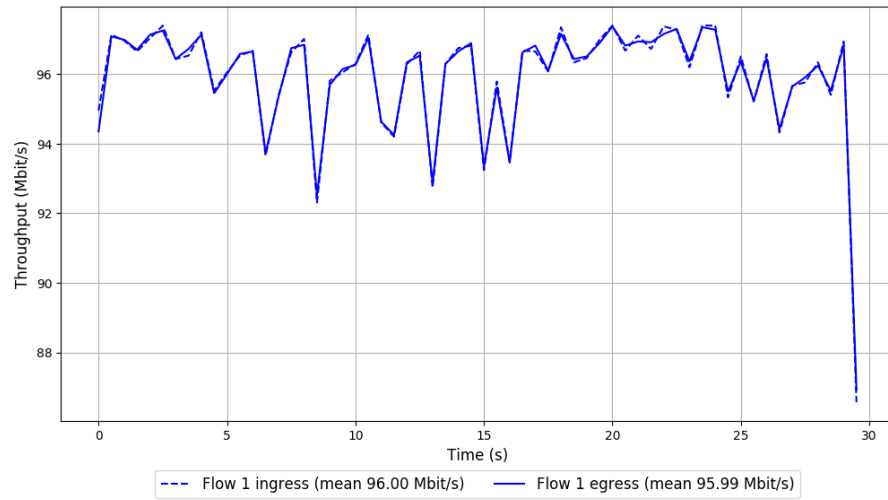
Run 6: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 96.00 Mbit/s) --- Flow 1 egress (mean 95.99 Mbit/s)

Flow 1 (95th percentile 3.41 ms)

```
Run 7: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 20:49:32 +0000
End at: Sun, 16 Jul 2017 20:50:02 +0000
Local clock offset: -2.685 ms
Remote clock offset: 1.465 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:28:35 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.78 Mbit/s
95th percentile per-packet one-way delay: 3.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.78 Mbit/s
95th percentile per-packet one-way delay: 3.636 ms
Loss rate: 0.00%
```
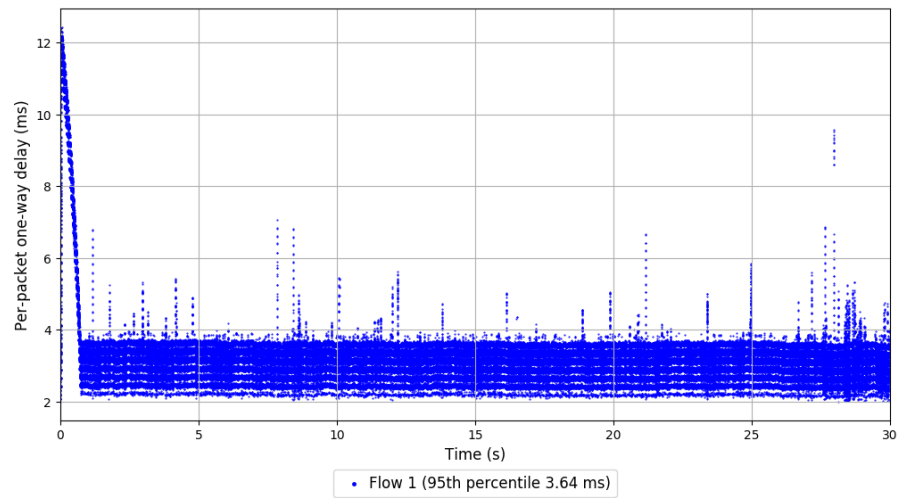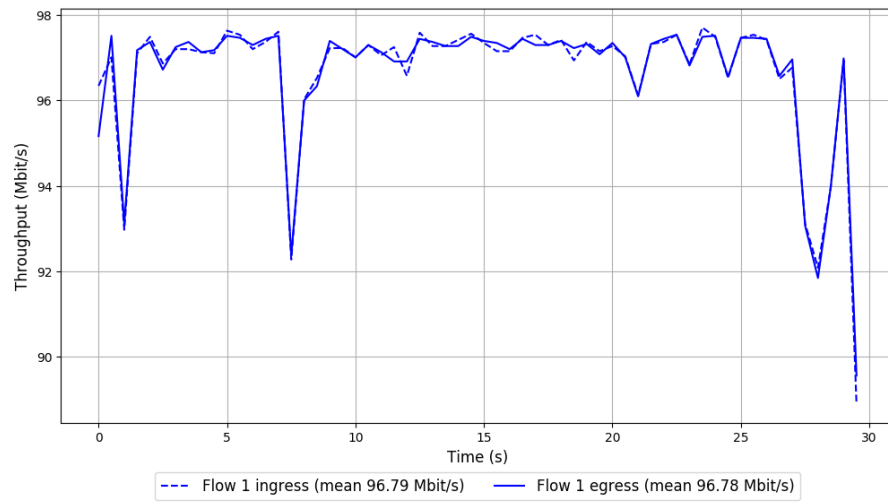
Run 7: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 96.79 Mbit/s)   Flow 1 egress (mean 96.78 Mbit/s)

Flow 1 (95th percentile 3.64 ms)

```
Run 8: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 21:06:17 +0000
End at: Sun, 16 Jul 2017 21:06:47 +0000
Local clock offset: -3.06 ms
Remote clock offset: 2.134 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:28:37 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 3.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 3.656 ms
Loss rate: 0.00%
```
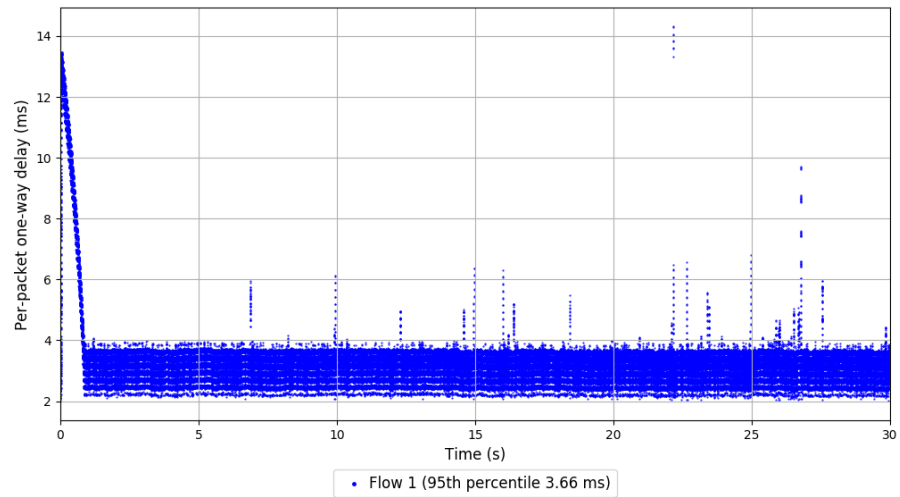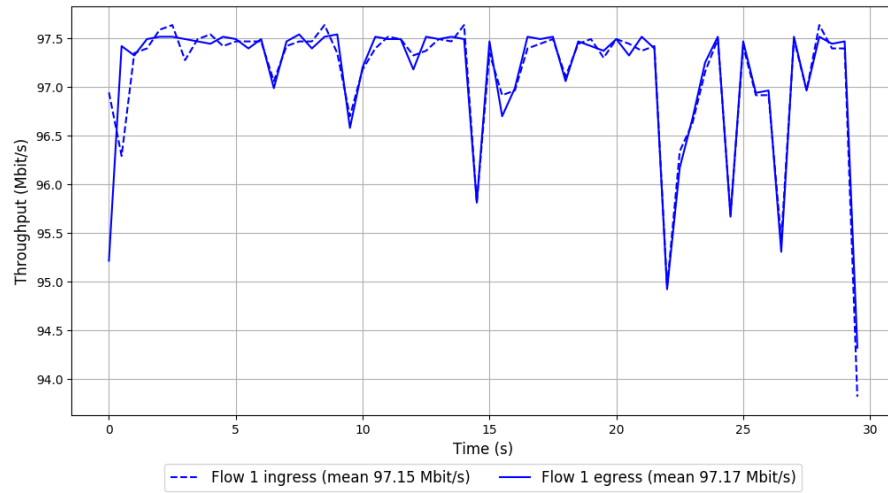
Run 8: Report of TCP Vegas — Data Link

```
Run 9: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 21:23:10 +0000
End at: Sun, 16 Jul 2017 21:23:40 +0000
Local clock offset: -3.357 ms
Remote clock offset: 2.136 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:28:49 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 3.572 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 3.572 ms
Loss rate: 0.00%
```
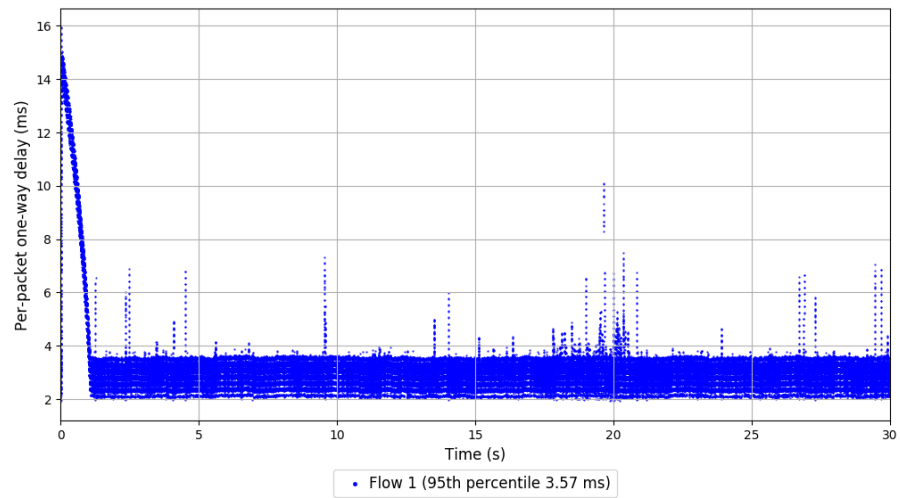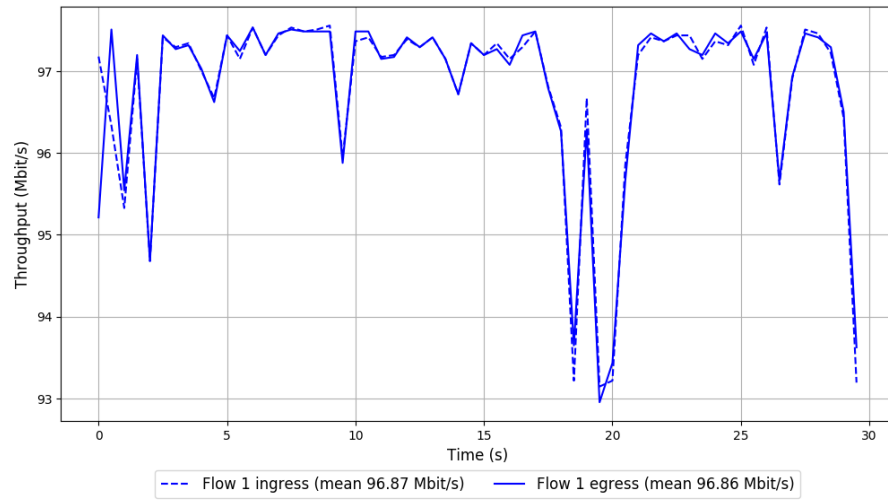
Run 9: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 96.87 Mbit/s) Flow 1 egress (mean 96.86 Mbit/s)

Flow 1 (95th percentile 3.57 ms)

```
Run 10: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 21:40:07 +0000
End at: Sun, 16 Jul 2017 21:40:37 +0000
Local clock offset: -3.487 ms
Remote clock offset: 2.015 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:28:50 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 3.646 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 3.646 ms
Loss rate: 0.00%
```
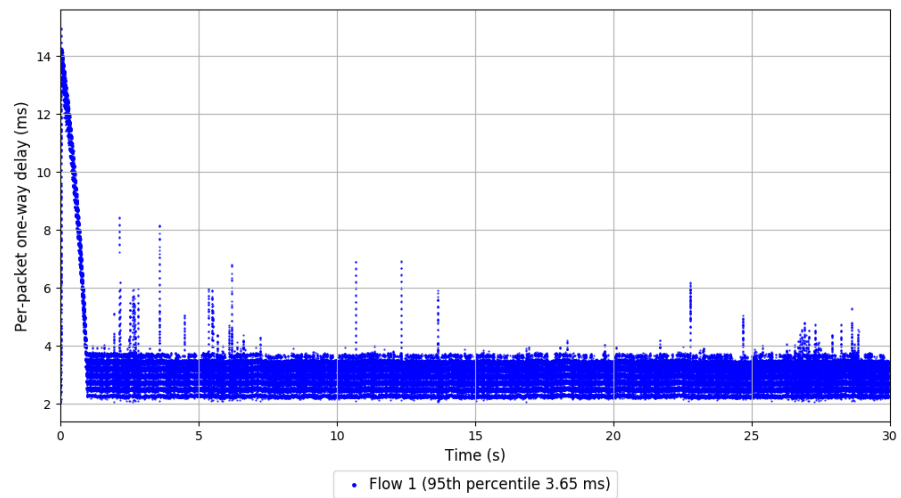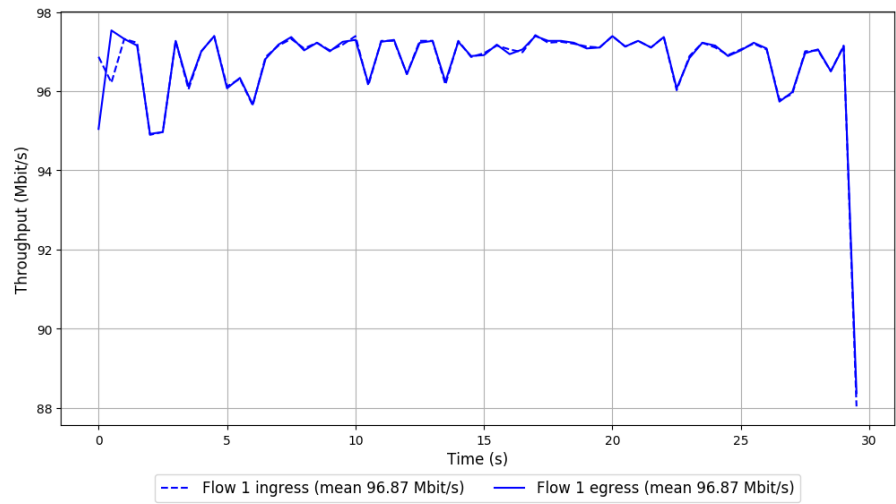
Run 10: Report of TCP Vegas — Data Link

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```
Run 1: Statistics of Verus

Start at: Sun, 16 Jul 2017 19:19:07 +0000
End at: Sun, 16 Jul 2017 19:19:38 +0000
Local clock offset: -1.359 ms
Remote clock offset: -0.803 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:00 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.48 Mbit/s
95th percentile per-packet one-way delay: 11.538 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 79.48 Mbit/s
95th percentile per-packet one-way delay: 11.538 ms
Loss rate: 1.03%
```
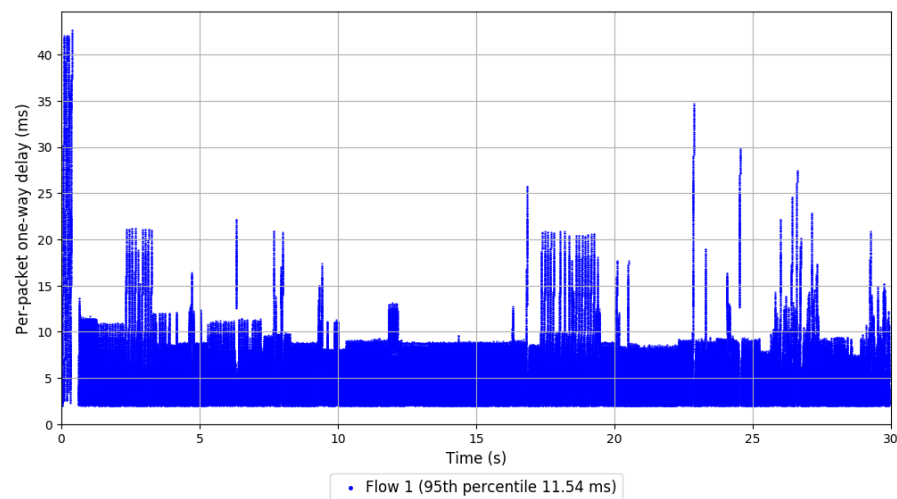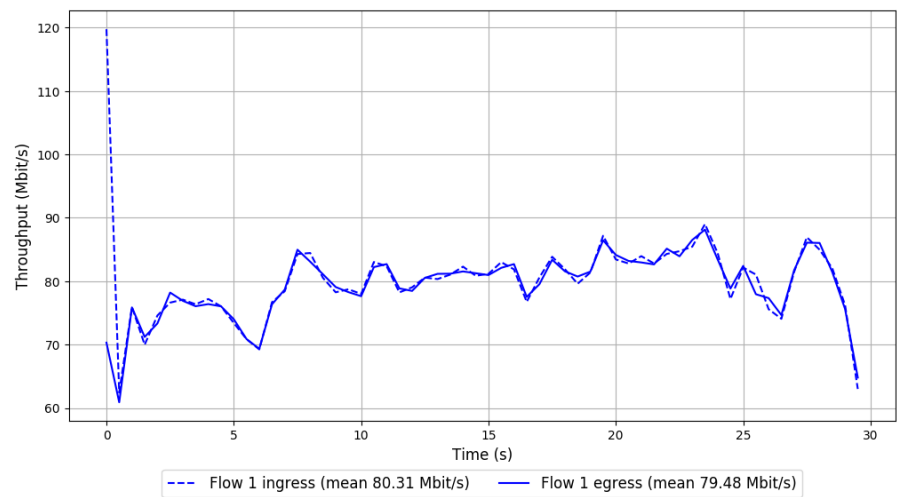
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: Sun, 16 Jul 2017 19:36:10 +0000
End at: Sun, 16 Jul 2017 19:36:40 +0000
Local clock offset: -1.556 ms
Remote clock offset: -0.626 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:01 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.47 Mbit/s
95th percentile per-packet one-way delay: 9.153 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 79.47 Mbit/s
95th percentile per-packet one-way delay: 9.153 ms
Loss rate: 0.97%
```
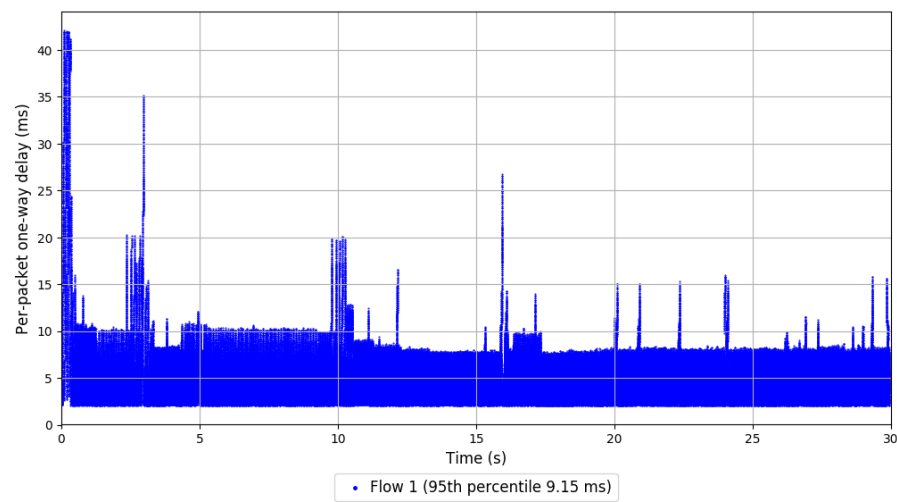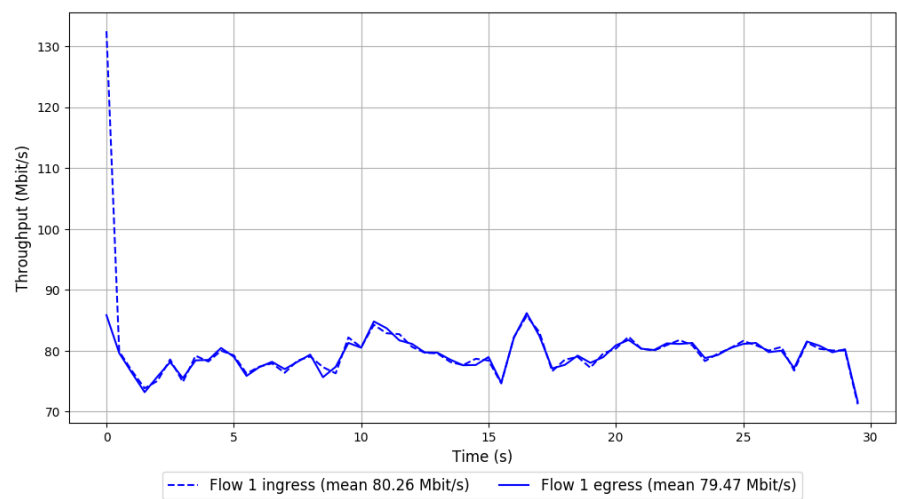
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: Sun, 16 Jul 2017 19:53:03 +0000
End at: Sun, 16 Jul 2017 19:53:33 +0000
Local clock offset: -1.785 ms
Remote clock offset: -0.401 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:12 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.94 Mbit/s
95th percentile per-packet one-way delay: 8.967 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 81.94 Mbit/s
95th percentile per-packet one-way delay: 8.967 ms
Loss rate: 1.00%
```
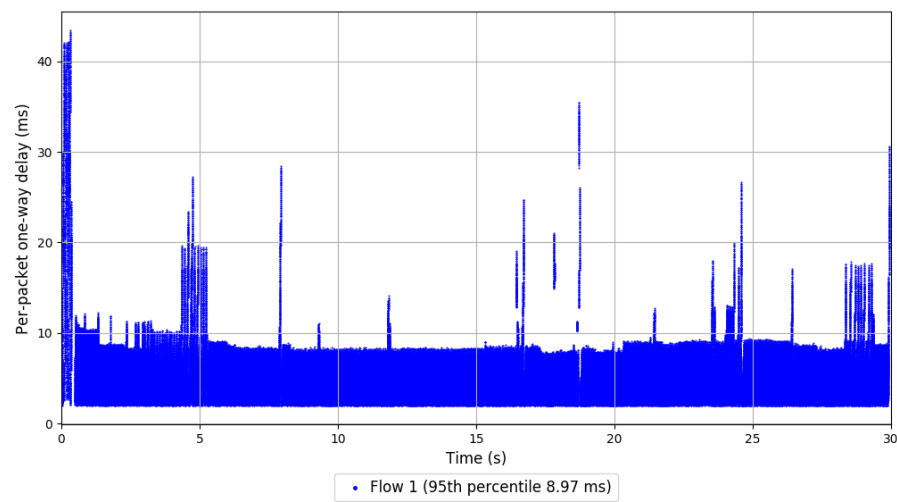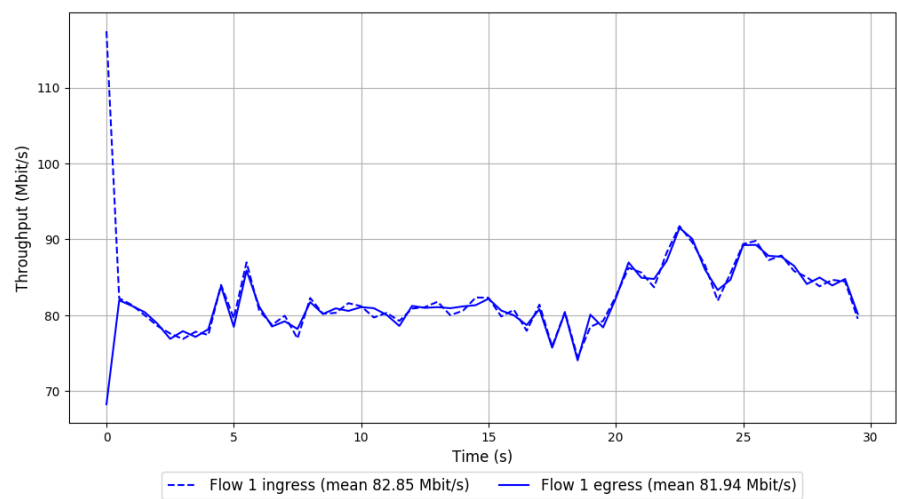
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: Sun, 16 Jul 2017 20:09:55 +0000
End at: Sun, 16 Jul 2017 20:10:25 +0000
Local clock offset: -2.052 ms
Remote clock offset: 0.567 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:12 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.28 Mbit/s
95th percentile per-packet one-way delay: 12.212 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 81.28 Mbit/s
95th percentile per-packet one-way delay: 12.212 ms
Loss rate: 0.93%
```
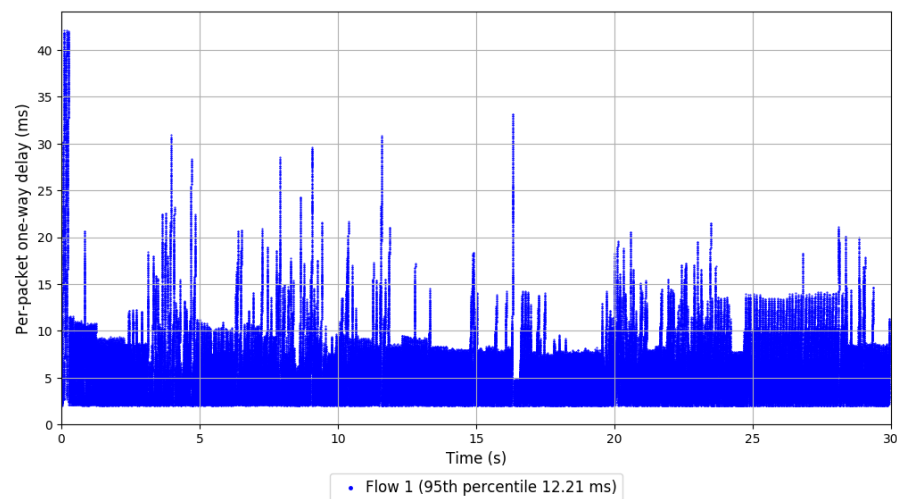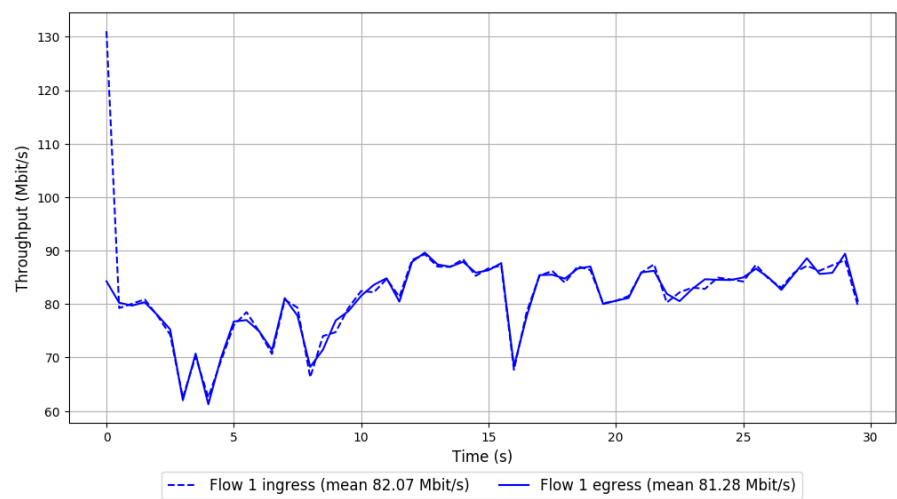
Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 82.07 Mbit/s) --- Flow 1 egress (mean 81.28 Mbit/s)

• Flow 1 (95th percentile 12.21 ms)

```
Run 5: Statistics of Verus

Start at: Sun, 16 Jul 2017 20:26:47 +0000
End at: Sun, 16 Jul 2017 20:27:17 +0000
Local clock offset: -2.373 ms
Remote clock offset: 0.961 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:23 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.75 Mbit/s
95th percentile per-packet one-way delay: 10.646 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 81.75 Mbit/s
95th percentile per-packet one-way delay: 10.646 ms
Loss rate: 0.97%
```
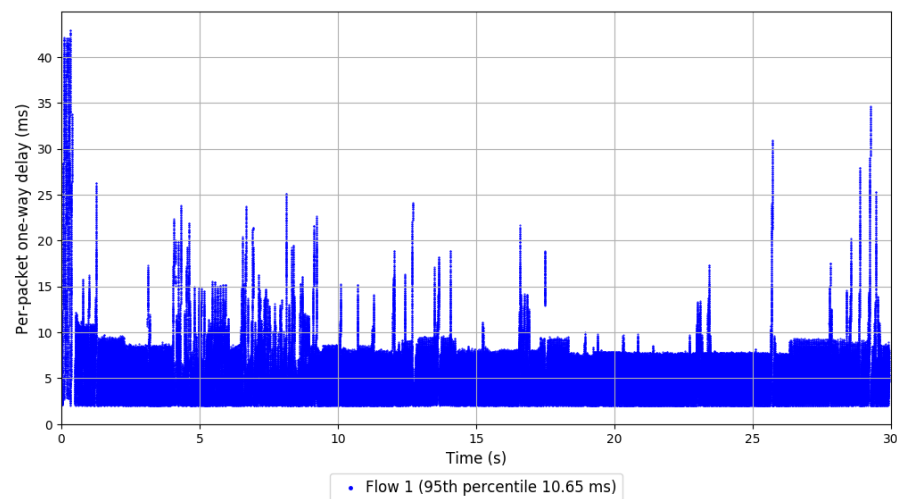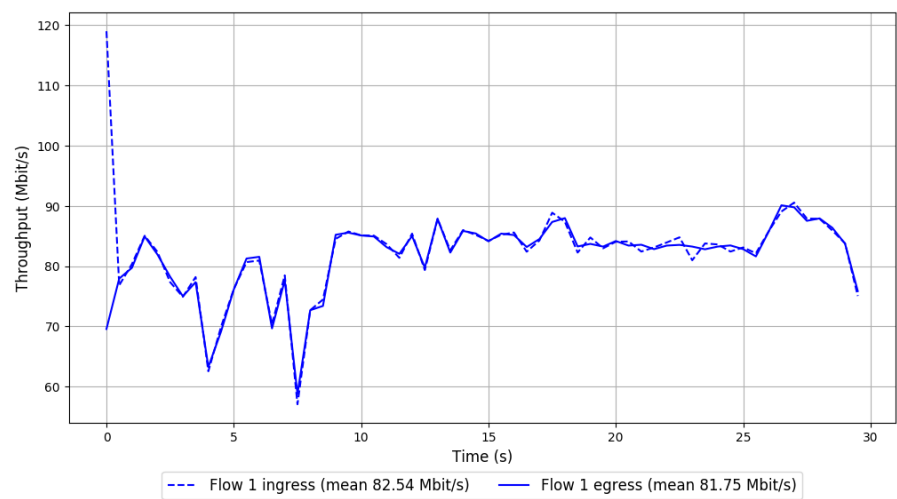
Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: Sun, 16 Jul 2017 20:43:44 +0000
End at: Sun, 16 Jul 2017 20:44:14 +0000
Local clock offset: -2.538 ms
Remote clock offset: 1.273 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:24 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.30 Mbit/s
95th percentile per-packet one-way delay: 10.200 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 80.30 Mbit/s
95th percentile per-packet one-way delay: 10.200 ms
Loss rate: 0.93%
```
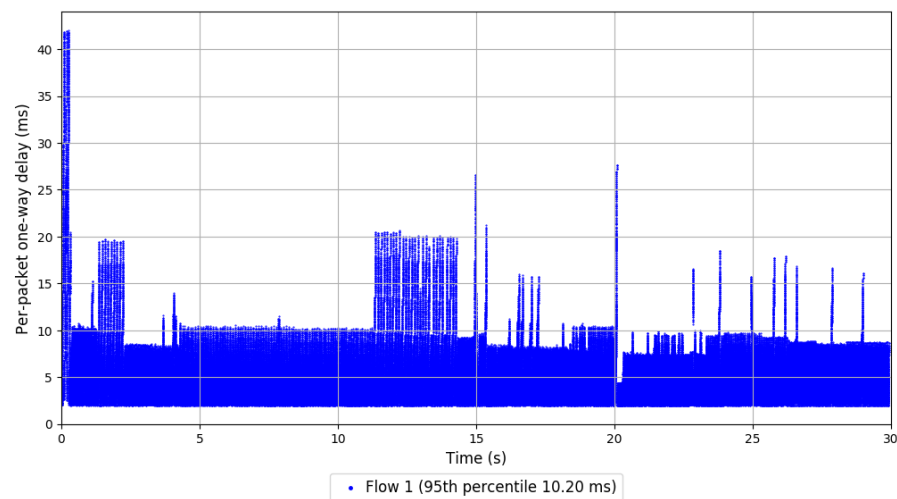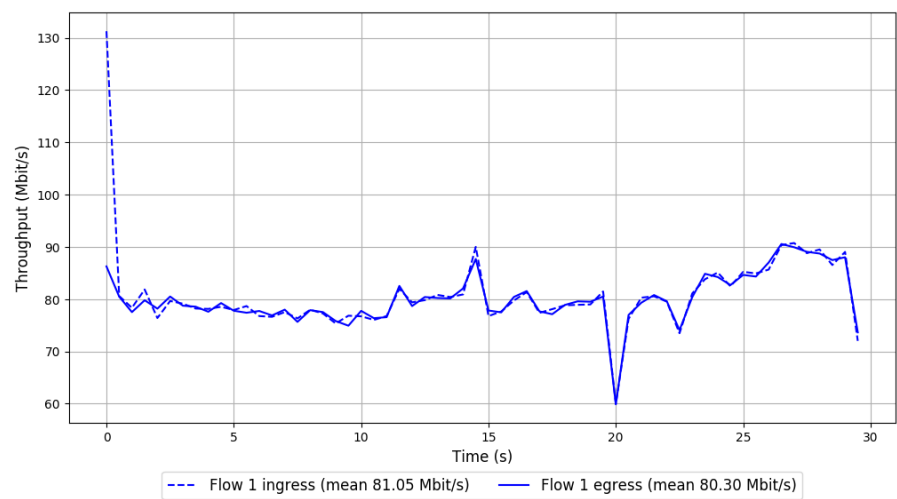
Run 6: Report of Verus — Data Link

Flow 1 ingress (mean 81.05 Mbit/s)   Flow 1 egress (mean 80.30 Mbit/s)

Flow 1 (95th percentile 10.20 ms)

```
Run 7: Statistics of Verus

Start at: Sun, 16 Jul 2017 21:00:31 +0000
End at: Sun, 16 Jul 2017 21:01:01 +0000
Local clock offset: -2.86 ms
Remote clock offset: 1.912 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:32 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.01 Mbit/s
95th percentile per-packet one-way delay: 9.872 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 80.01 Mbit/s
95th percentile per-packet one-way delay: 9.872 ms
Loss rate: 0.95%
```
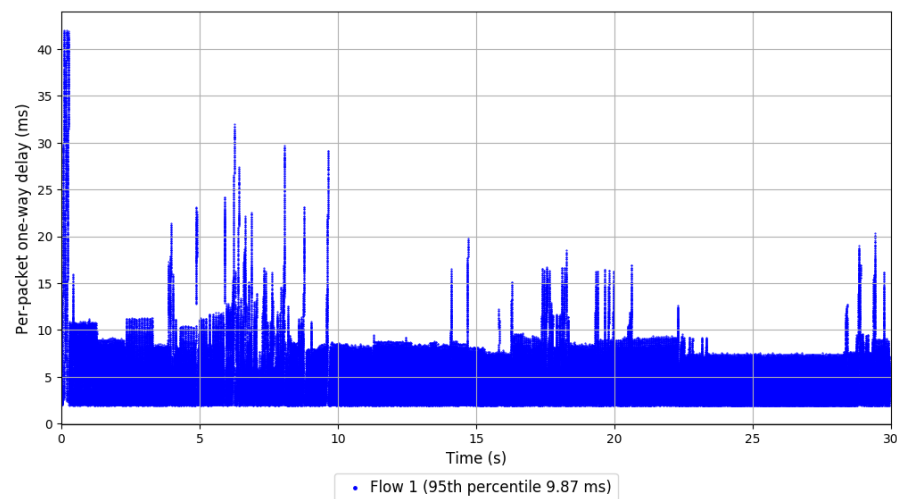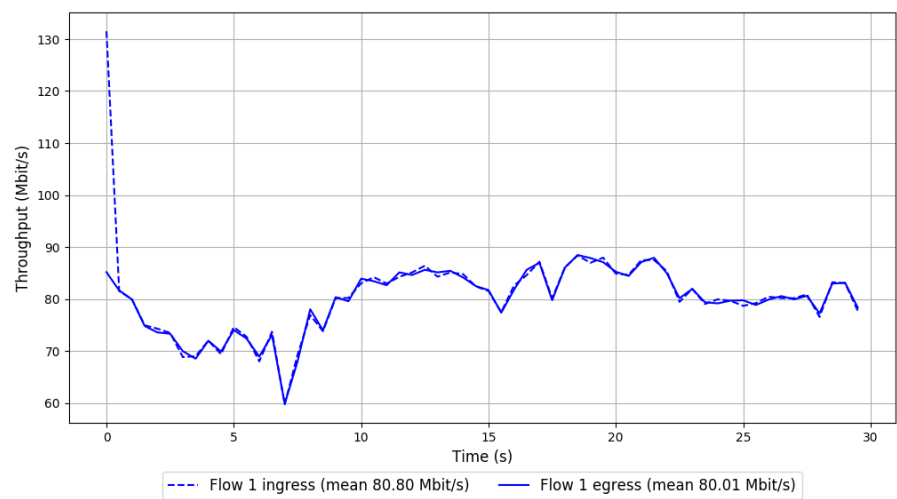
Run 7: Report of Verus — Data Link

```
Run 8: Statistics of Verus

Start at: Sun, 16 Jul 2017 21:17:23 +0000
End at: Sun, 16 Jul 2017 21:17:53 +0000
Local clock offset: -3.214 ms
Remote clock offset: 2.26 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:36 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 41.022 ms
Loss rate: 3.84%
-- Flow 1:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 41.022 ms
Loss rate: 3.84%
```
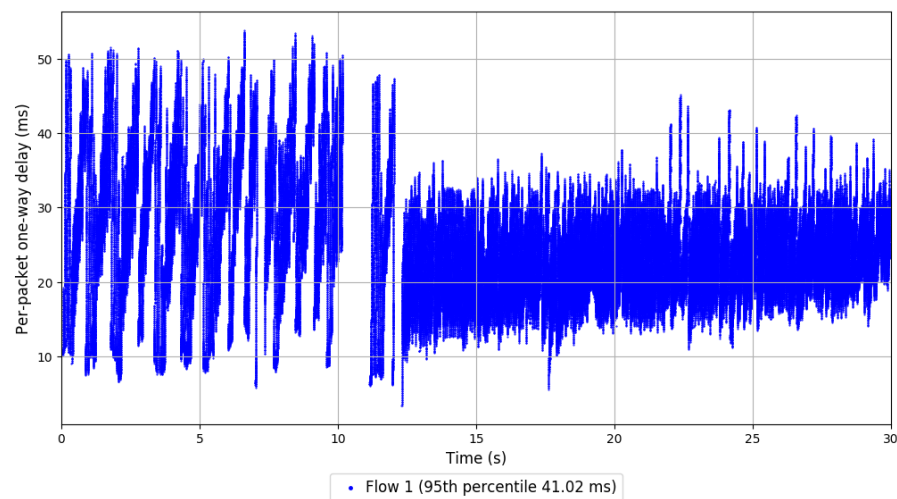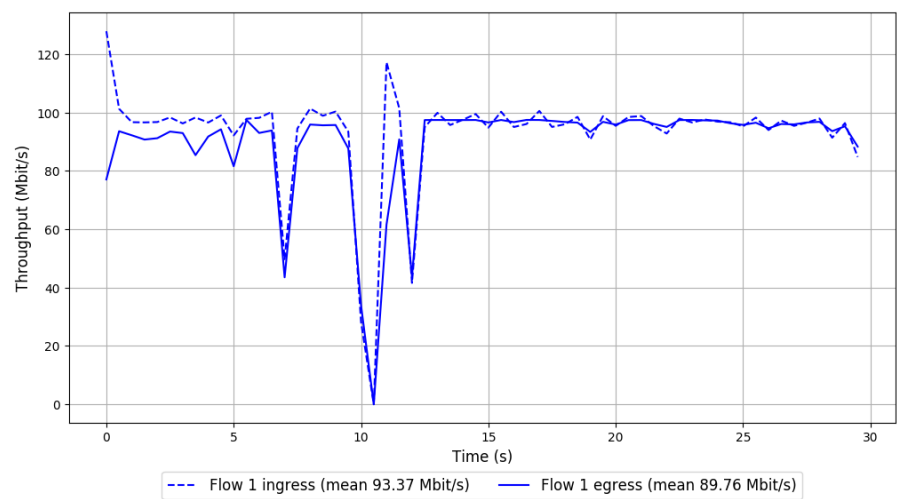
Run 8: Report of Verus — Data Link

Flow 1 ingress (mean 93.37 Mbit/s)   Flow 1 egress (mean 89.76 Mbit/s)

• Flow 1 (95th percentile 41.02 ms)

```
Run 9: Statistics of Verus

Start at: Sun, 16 Jul 2017 21:34:20 +0000
End at: Sun, 16 Jul 2017 21:34:50 +0000
Local clock offset: -3.4 ms
Remote clock offset: 2.207 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:43 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.22 Mbit/s
95th percentile per-packet one-way delay: 9.473 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 80.22 Mbit/s
95th percentile per-packet one-way delay: 9.473 ms
Loss rate: 0.15%
```
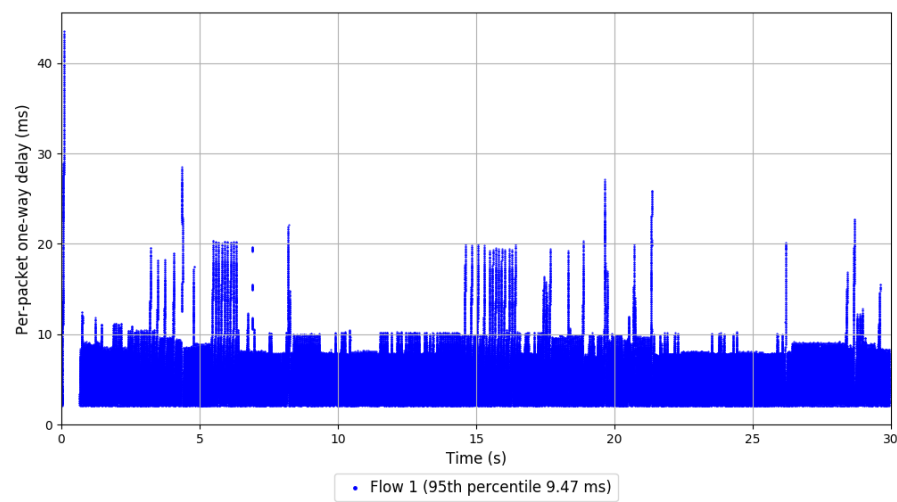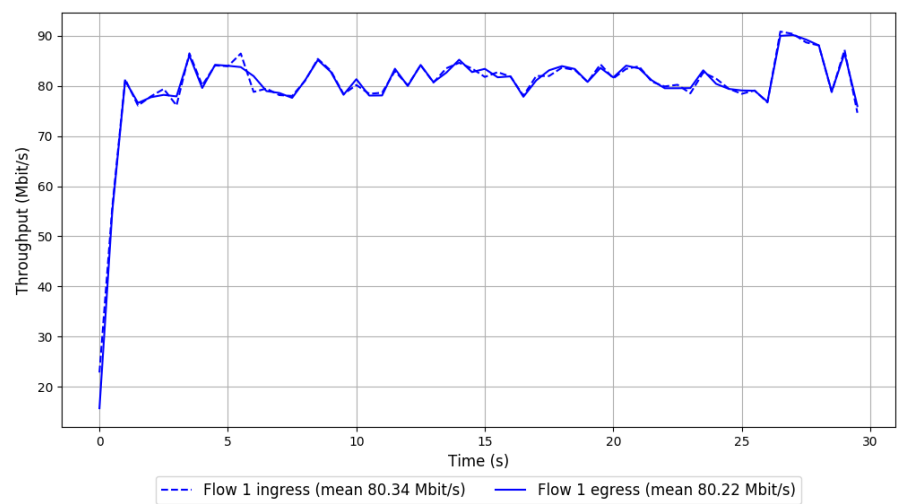
Run 9: Report of Verus — Data Link

```
Run 10: Statistics of Verus

Start at: Sun, 16 Jul 2017 21:51:24 +0000
End at: Sun, 16 Jul 2017 21:51:54 +0000
Local clock offset: -3.403 ms
Remote clock offset: 1.662 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:48 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.34 Mbit/s
95th percentile per-packet one-way delay: 10.132 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 76.34 Mbit/s
95th percentile per-packet one-way delay: 10.132 ms
Loss rate: 1.00%
```
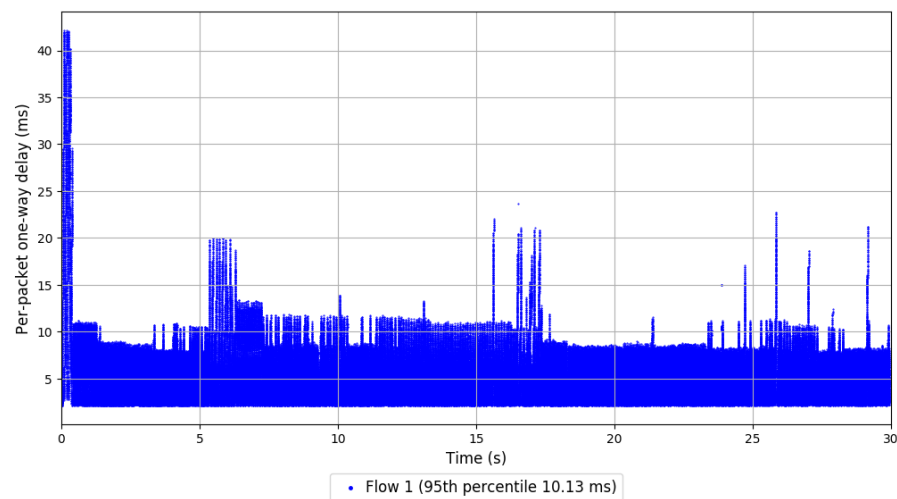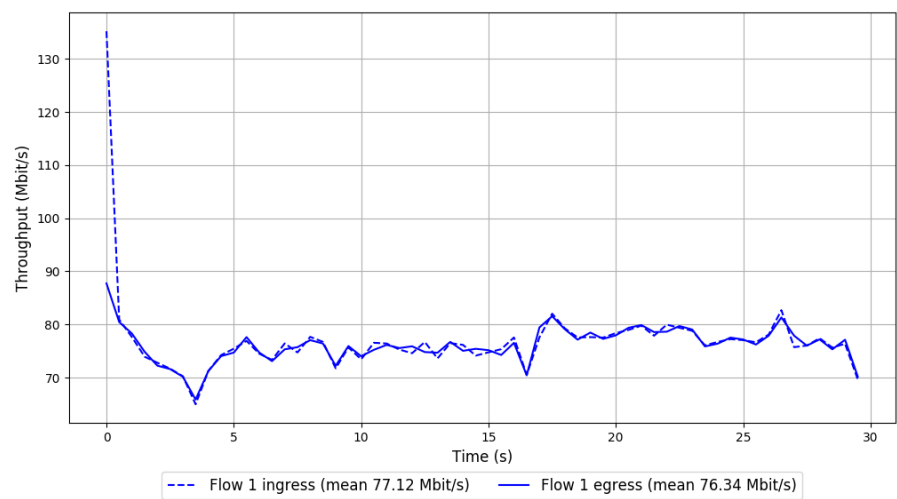
Run 10: Report of Verus — Data Link

Flow 1 ingress (mean 77.12 Mbit/s) --- Flow 1 egress (mean 76.34 Mbit/s)

Flow 1 (95th percentile 10.13 ms)

```
Run 1: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 19:13:38 +0000
End at: Sun, 16 Jul 2017 19:14:08 +0000
Local clock offset: -1.228 ms
Remote clock offset: -0.777 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:48 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 2.906 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 2.906 ms
Loss rate: 0.00%
```
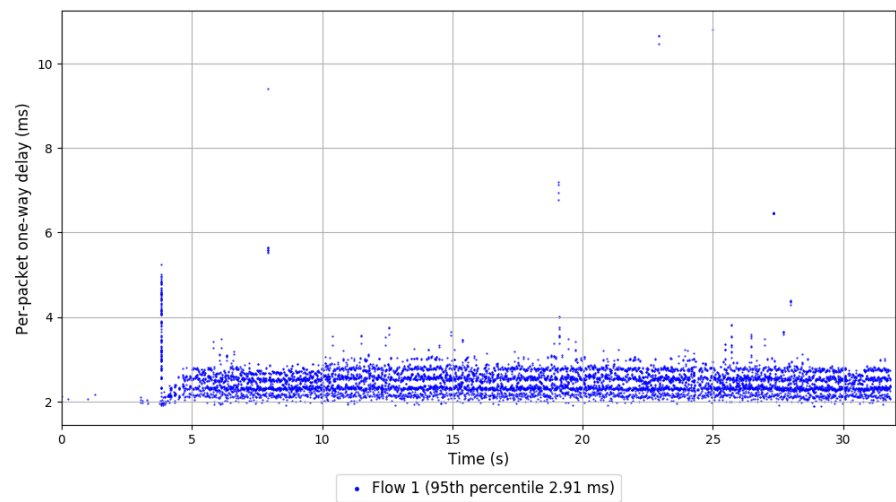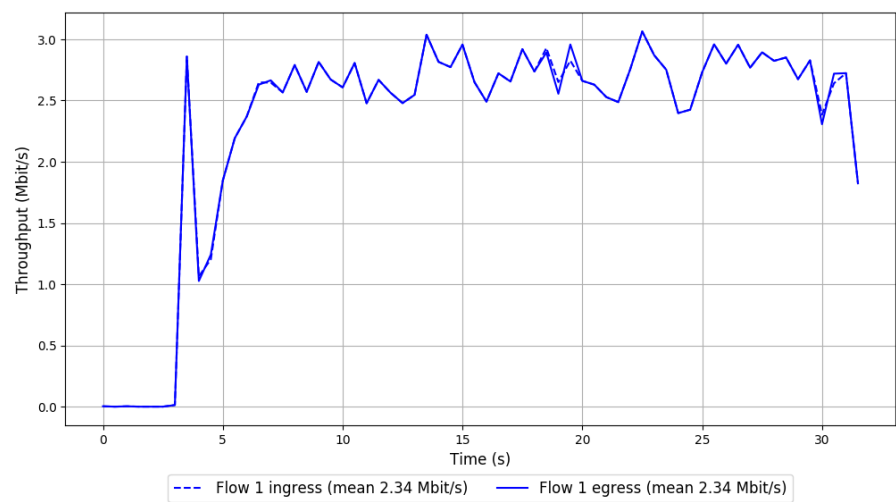
Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 19:30:30 +0000
End at: Sun, 16 Jul 2017 19:31:00 +0000
Local clock offset: -1.524 ms
Remote clock offset: -0.764 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:48 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 2.757 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 2.757 ms
Loss rate: 0.00%
```
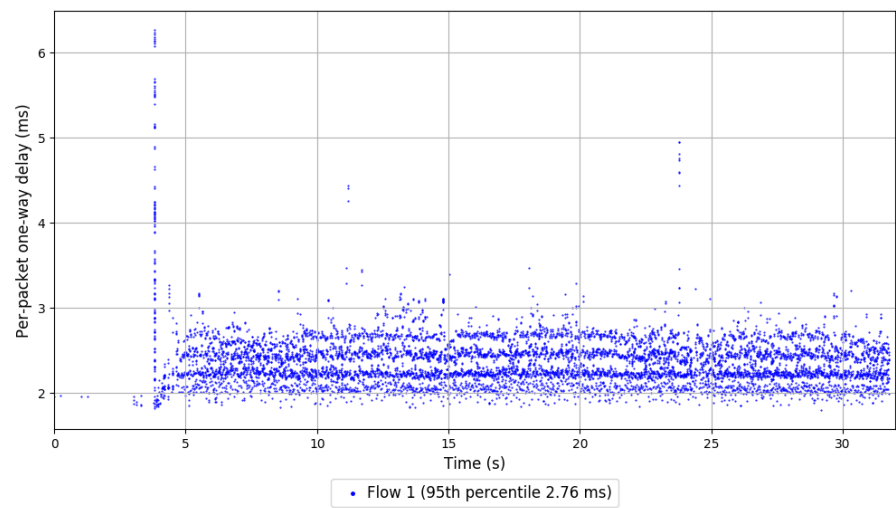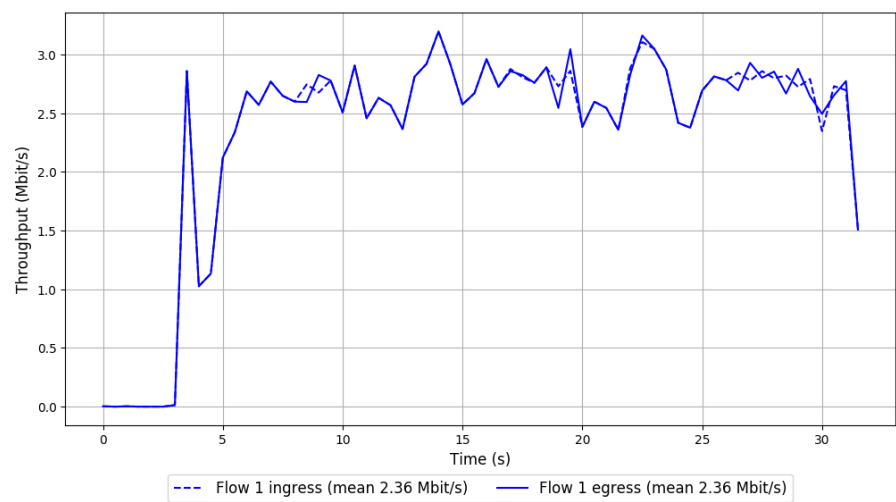
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 19:47:34 +0000
End at: Sun, 16 Jul 2017 19:48:04 +0000
Local clock offset: -1.721 ms
Remote clock offset: -0.547 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:49 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 2.929 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 2.929 ms
Loss rate: 0.00%
```
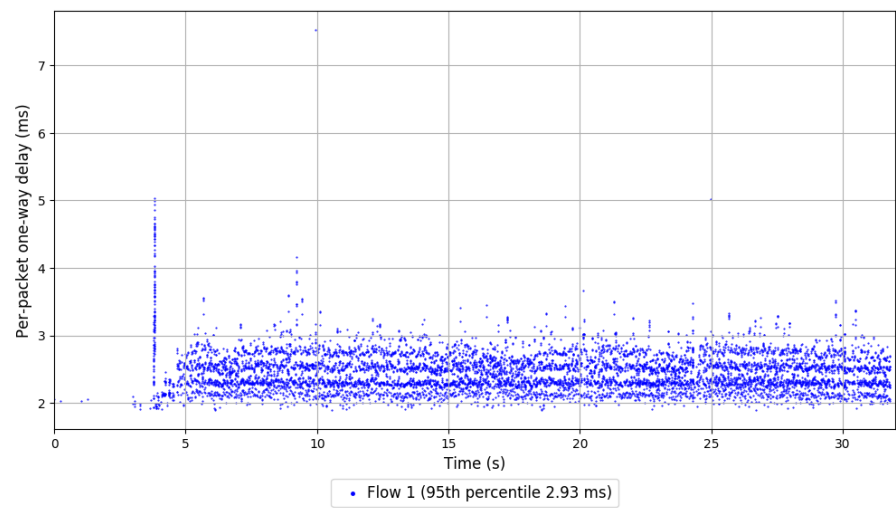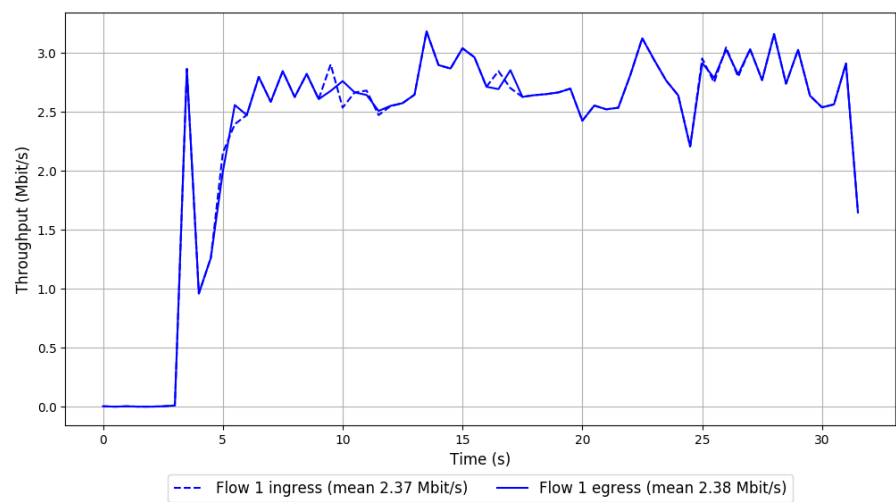
Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 20:04:26 +0000
End at: Sun, 16 Jul 2017 20:04:56 +0000
Local clock offset: -1.963 ms
Remote clock offset: 0.181 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:50 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.760 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.760 ms
Loss rate: 0.00%
```
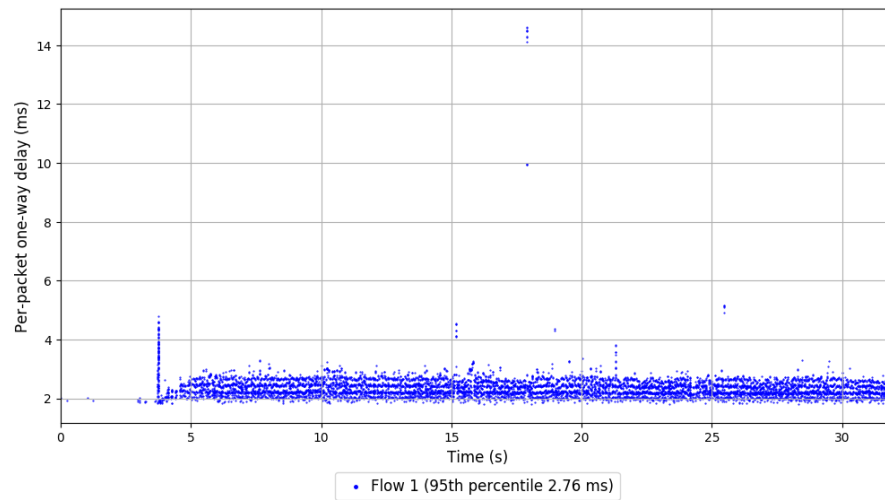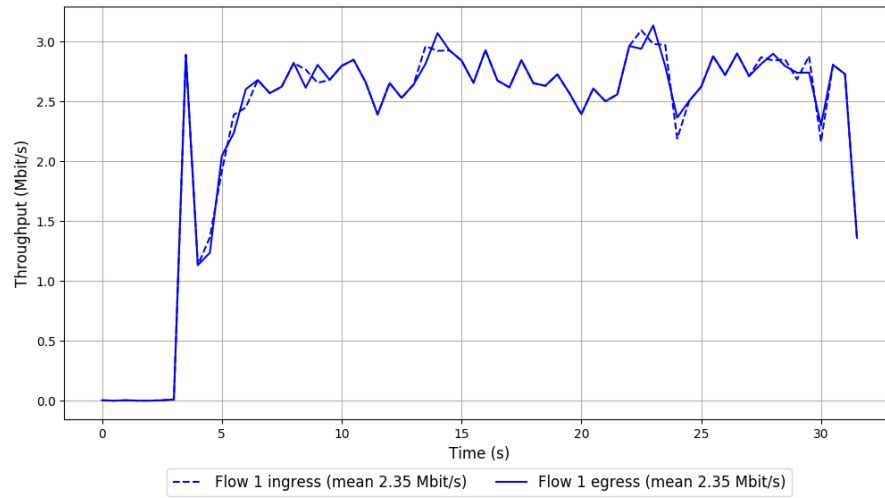
Run 4: Report of WebRTC media — Data Link

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

Flow 1 (95th percentile 2.76 ms)

```
Run 5: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 20:21:18 +0000
End at: Sun, 16 Jul 2017 20:21:48 +0000
Local clock offset: -2.295 ms
Remote clock offset: 0.904 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:50 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 3.886 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 3.886 ms
Loss rate: 0.00%
```
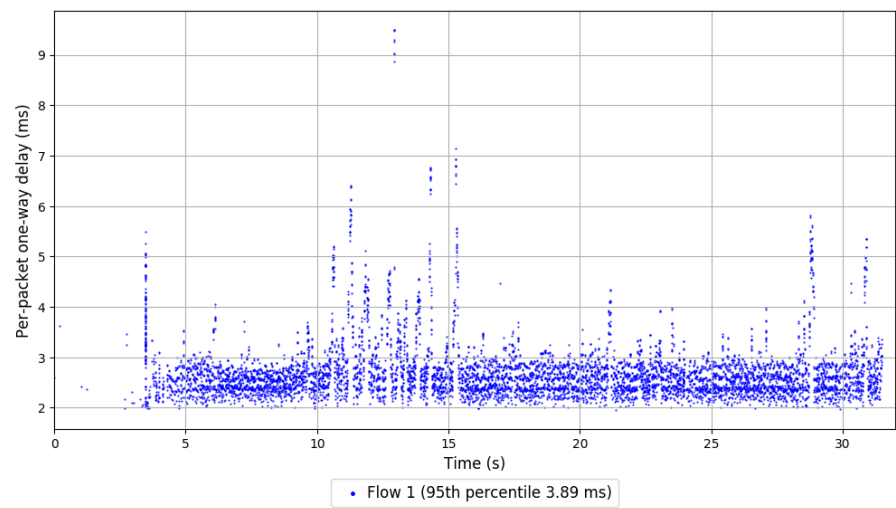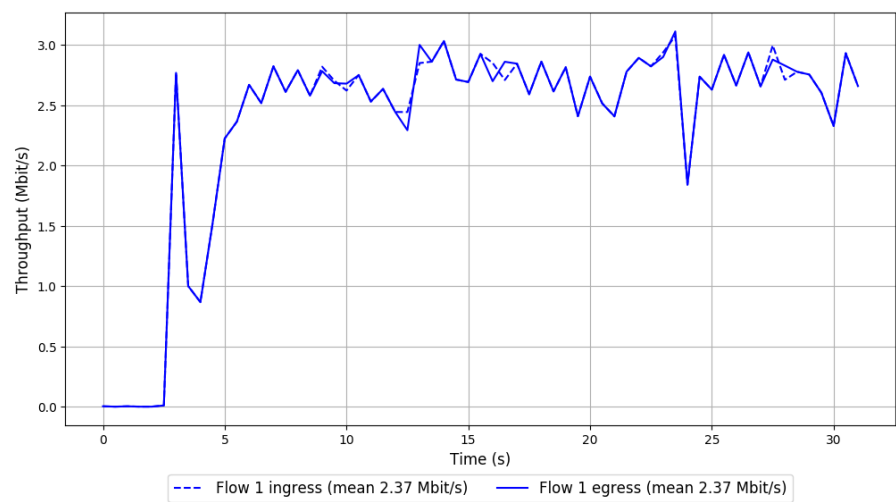
Run 5: Report of WebRTC media — Data Link

```
Run 6: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 20:38:11 +0000
End at: Sun, 16 Jul 2017 20:38:41 +0000
Local clock offset: -2.526 ms
Remote clock offset: 1.138 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:52 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.911 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.911 ms
Loss rate: 0.00%
```
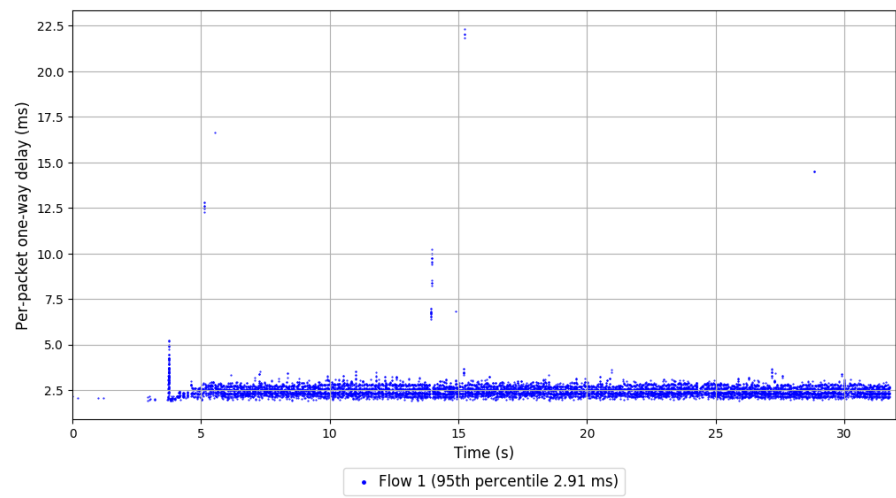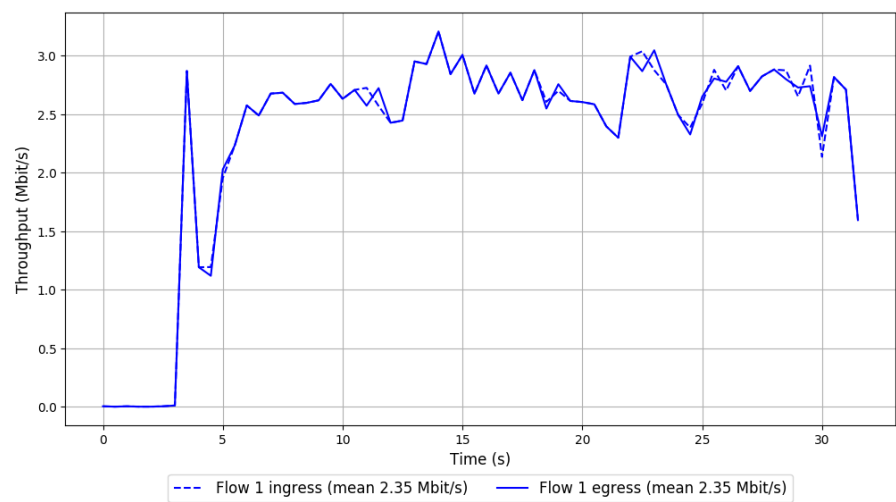
Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 20:55:01 +0000
End at: Sun, 16 Jul 2017 20:55:31 +0000
Local clock offset: -2.858 ms
Remote clock offset: 1.671 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:52 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 3.023 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 3.023 ms
Loss rate: 0.01%
```
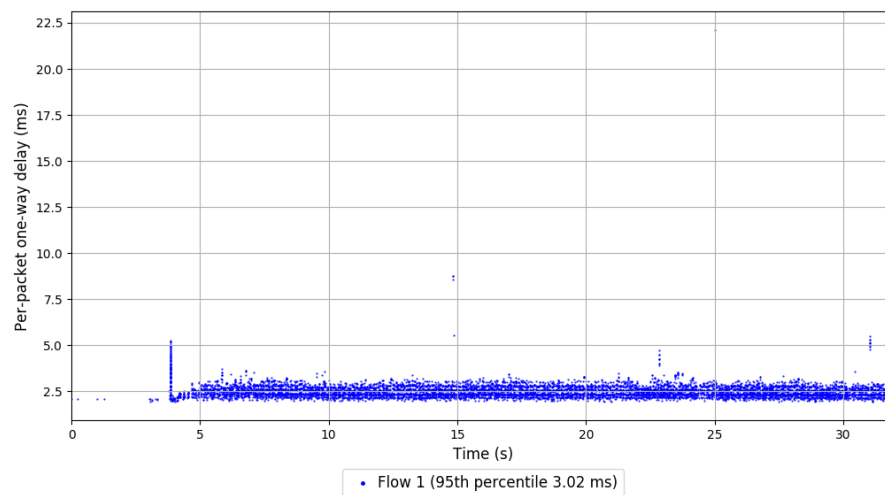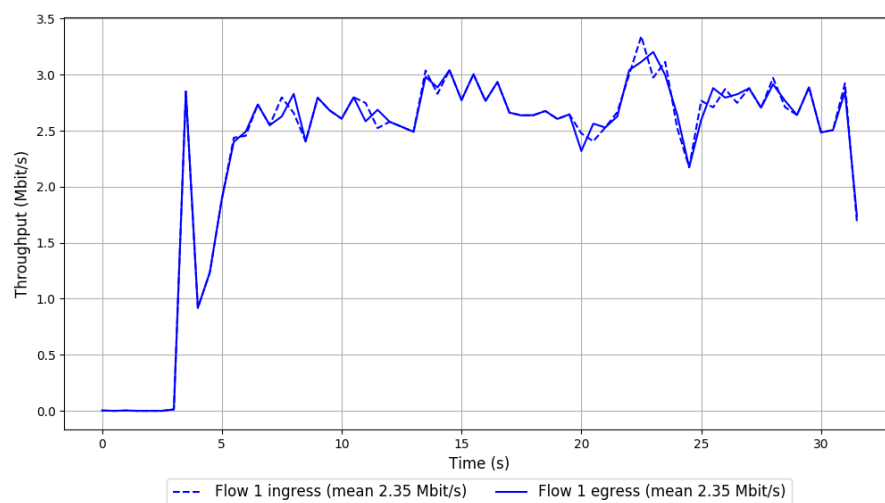
Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 21:11:54 +0000
End at: Sun, 16 Jul 2017 21:12:24 +0000
Local clock offset: -3.034 ms
Remote clock offset: 2.337 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:53 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 2.891 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 2.891 ms
Loss rate: 0.00%
```
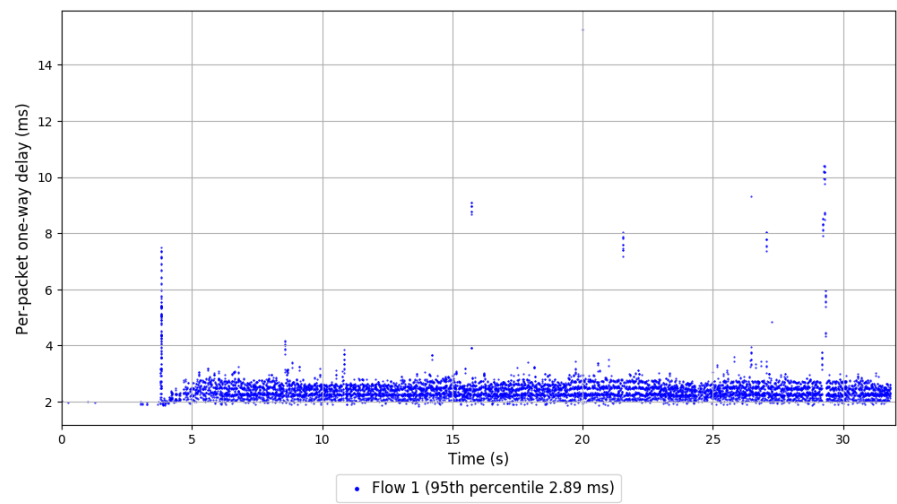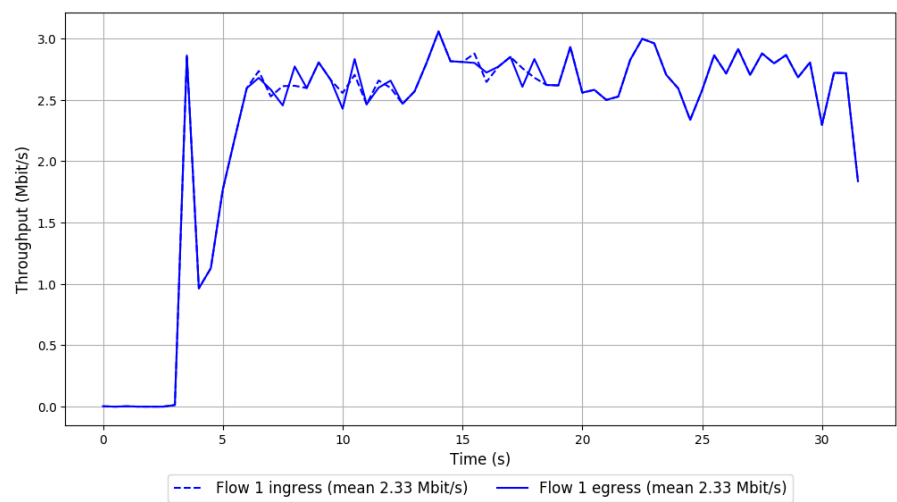
Run 8: Report of WebRTC media — Data Link

```
Run 9: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 21:28:46 +0000
End at: Sun, 16 Jul 2017 21:29:16 +0000
Local clock offset: -3.419 ms
Remote clock offset: 2.113 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:54 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 2.936 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 2.936 ms
Loss rate: 0.00%
```
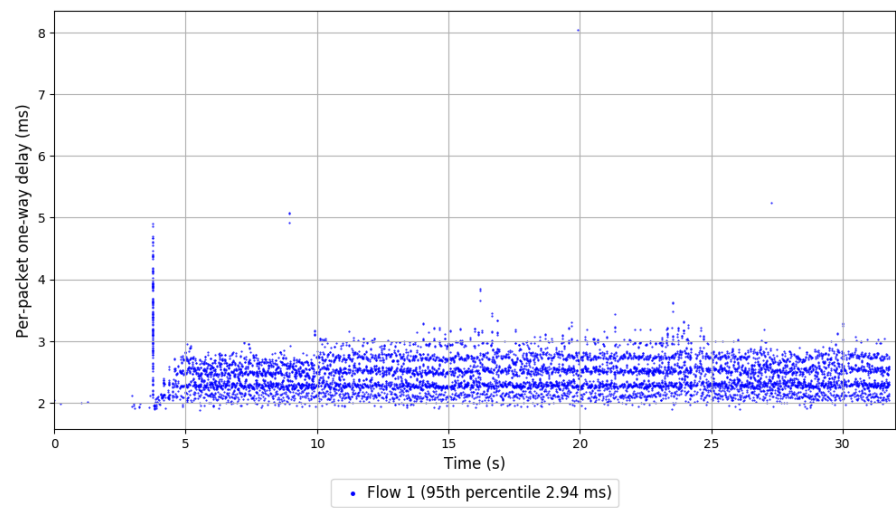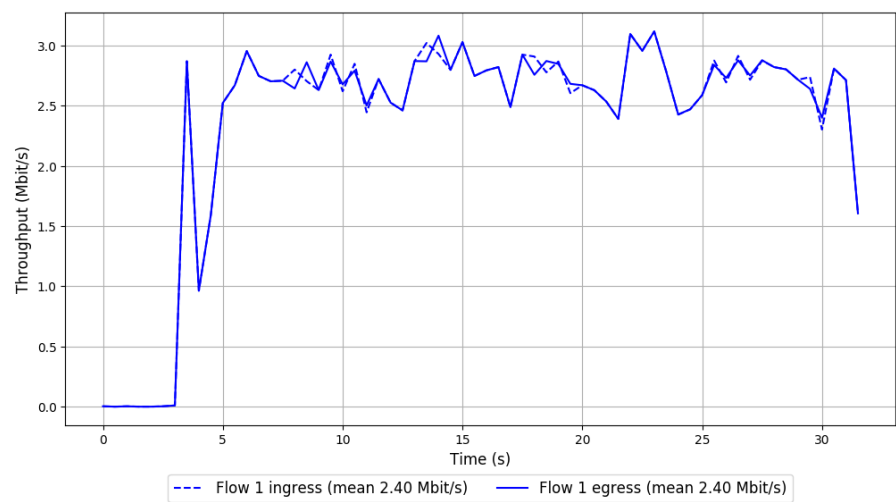
Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 21:45:43 +0000
End at: Sun, 16 Jul 2017 21:46:13 +0000
Local clock offset: -3.436 ms
Remote clock offset: 1.915 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:29:54 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.927 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.927 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link