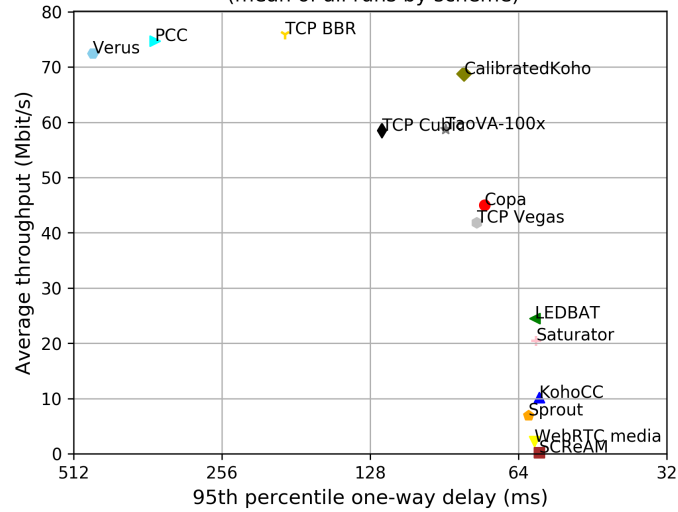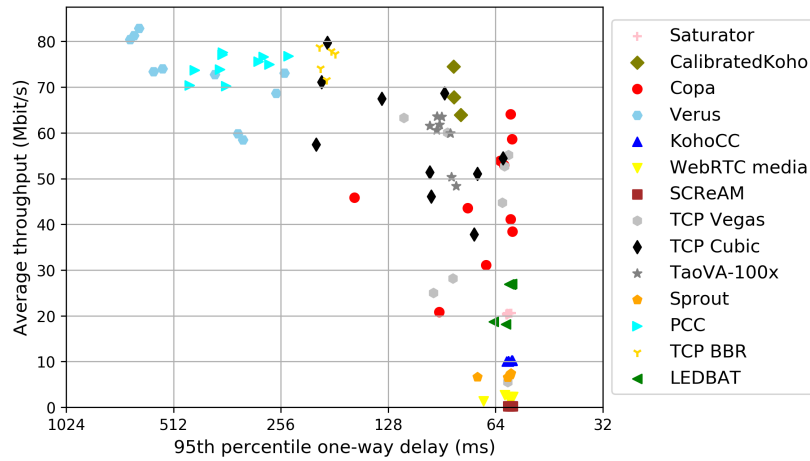**Pantheon Summary** (Generated at Mon, 17 Jul 2017 01:14:48 +0000 with pantheon version `d7b3554d9e52d3442ab19bc1e1c71f4629d4a0ac`)

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

Data path: AWS Brazil 2 Ethernet (*local*) →Colombia 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
```

test from AWS Brazil 2 Ethernet to Colombia Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)

test from AWS Brazil 2 Ethernet to Colombia 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	75.93	190.70	0.46
CalibratedKoho	10	68.77	82.55	3.95
Copa	10	45.05	74.98	1.84
TCP Cubic	10	58.53	121.33	0.44
KohoCC	10	10.18	58.07	0.01
LEDBAT	10	24.51	59.26	0.02
PCC	10	74.70	350.15	0.41
QUIC Cubic	10	nan	nan	nan
Saturator	10	20.49	58.91	0.03
SCReAM	10	0.22	58.13	0.00
Sprout	10	6.98	61.12	0.07
TaoVA-100x	10	58.73	90.07	6.92
TCP Vegas	10	41.85	77.86	0.15
Verus	10	72.50	468.26	1.23
WebRTC media	10	2.25	59.42	0.09

Run 1: Statistics of TCP BBR
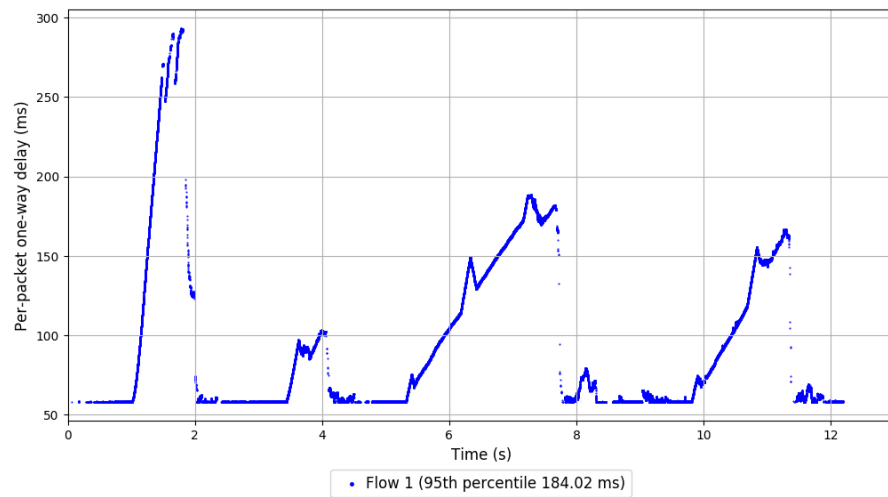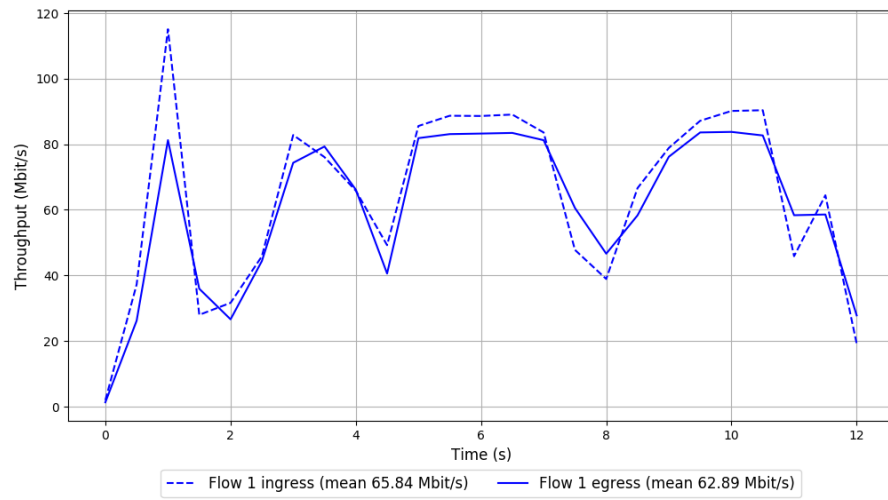
Start at: Sun, 16 Jul 2017 19:22:07 +0000
End at: Sun, 16 Jul 2017 19:22:37 +0000
Local clock offset: 0.381 ms
Remote clock offset: 1.621 ms

Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 19:39:20 +0000
End at: Sun, 16 Jul 2017 19:39:50 +0000
Local clock offset: 0.432 ms
Remote clock offset: 0.946 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:07:40 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.75 Mbit/s
95th percentile per-packet one-way delay: 199.391 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 78.75 Mbit/s
95th percentile per-packet one-way delay: 199.391 ms
Loss rate: 0.29%
```

Run 2: Report of TCP BBR — Data Link

Flow 1 ingress (mean 79.25 Mbit/s)   Flow 1 egress (mean 78.75 Mbit/s)

Flow 1 (95th percentile 199.39 ms)
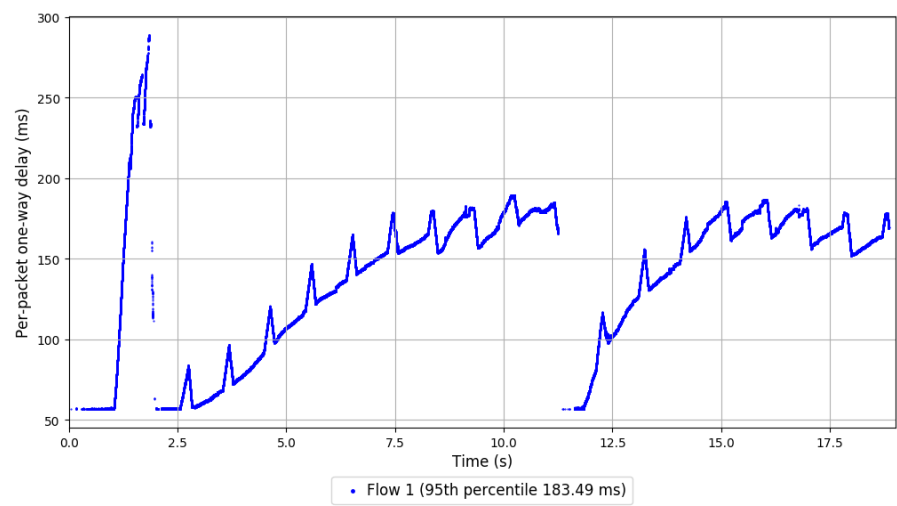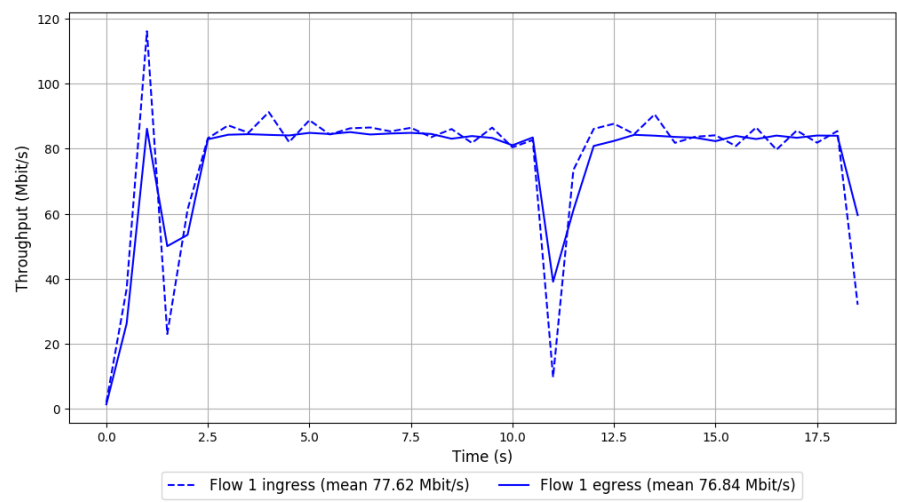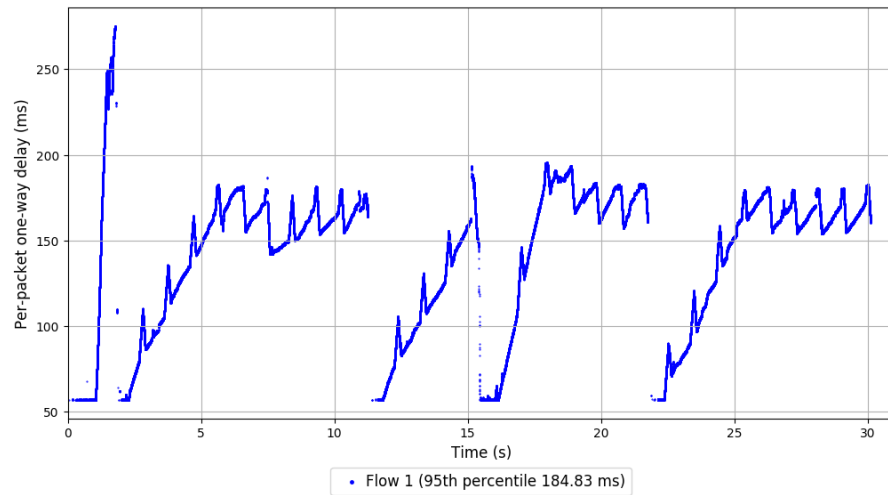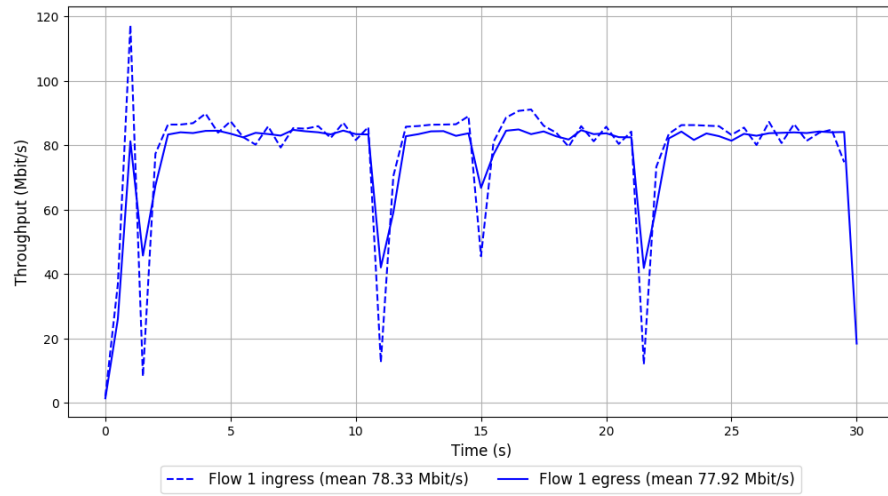
```
Run 3: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 19:56:40 +0000
End at: Sun, 16 Jul 2017 19:57:10 +0000
Local clock offset: 0.445 ms
Remote clock offset: 0.71 ms
```

Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 77.62 Mbit/s) — — —   Flow 1 egress (mean 76.84 Mbit/s) ———

• Flow 1 (95th percentile 183.49 ms)

```
Run 4: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 20:13:08 +0000
End at: Sun, 16 Jul 2017 20:13:38 +0000
Local clock offset: 0.392 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:07:51 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.92 Mbit/s
95th percentile per-packet one-way delay: 184.832 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 77.92 Mbit/s
95th percentile per-packet one-way delay: 184.832 ms
Loss rate: 0.20%
```
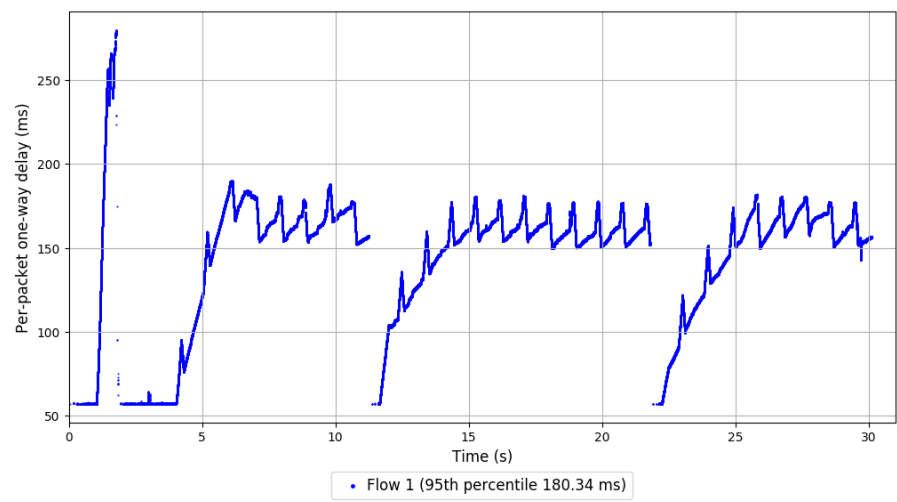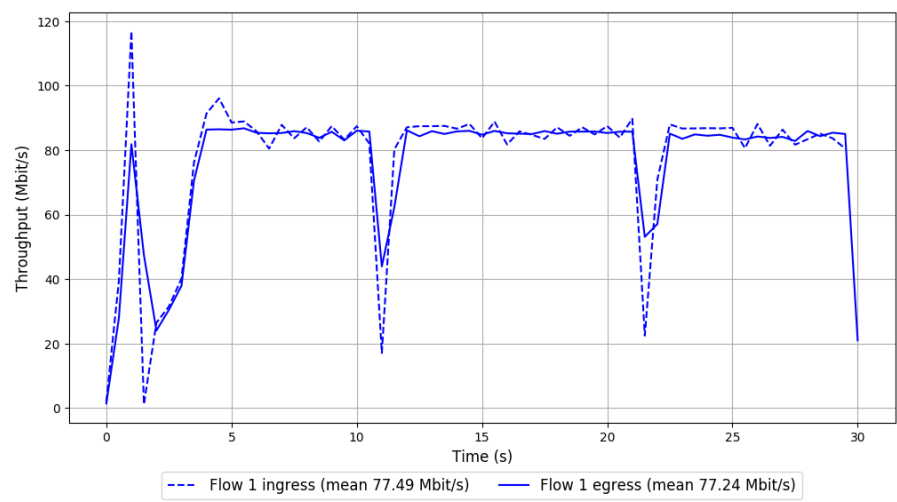
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 78.33 Mbit/s) Flow 1 egress (mean 77.92 Mbit/s)

Flow 1 (95th percentile 184.83 ms)

```
Run 5: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 20:27:04 +0000
End at: Sun, 16 Jul 2017 20:27:34 +0000
Local clock offset: 0.408 ms

# Below is generated by plot.py at Mon, 17 Jul 2017 01:07:51 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.24 Mbit/s
95th percentile per-packet one-way delay: 180.337 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 77.24 Mbit/s
95th percentile per-packet one-way delay: 180.337 ms
Loss rate: 0.02%
```
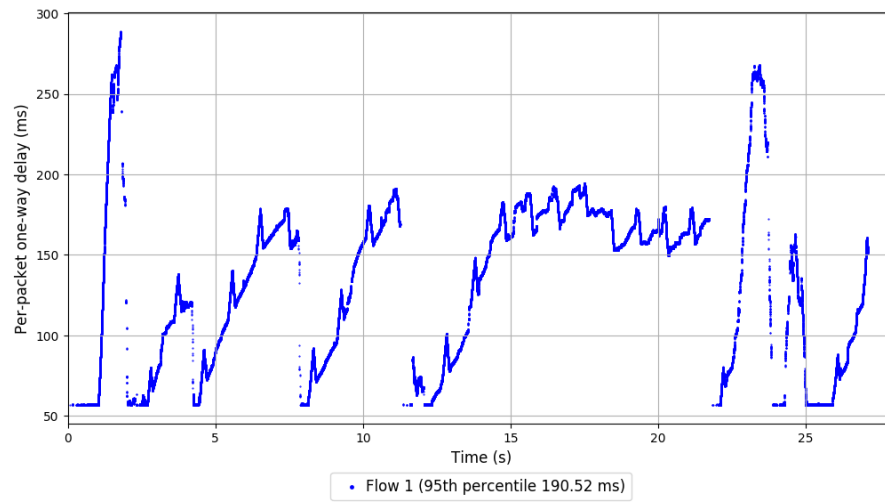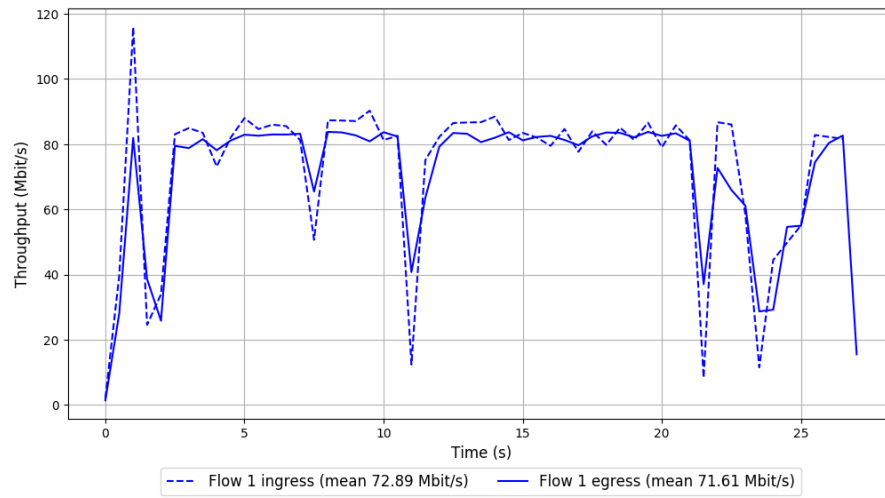
Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 77.49 Mbit/s)   Flow 1 egress (mean 77.24 Mbit/s)

· Flow 1 (95th percentile 180.34 ms)

```
Run 6: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 20:43:34 +0000
End at: Sun, 16 Jul 2017 20:44:04 +0000
Local clock offset: 0.478 ms
Remote clock offset: -0.003 ms
```

Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 74.65 Mbit/s)   Flow 1 egress (mean 73.67 Mbit/s)

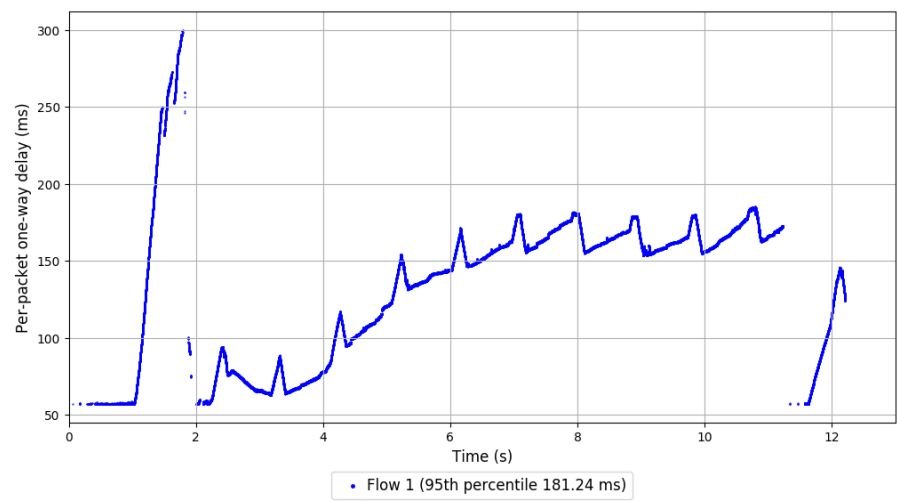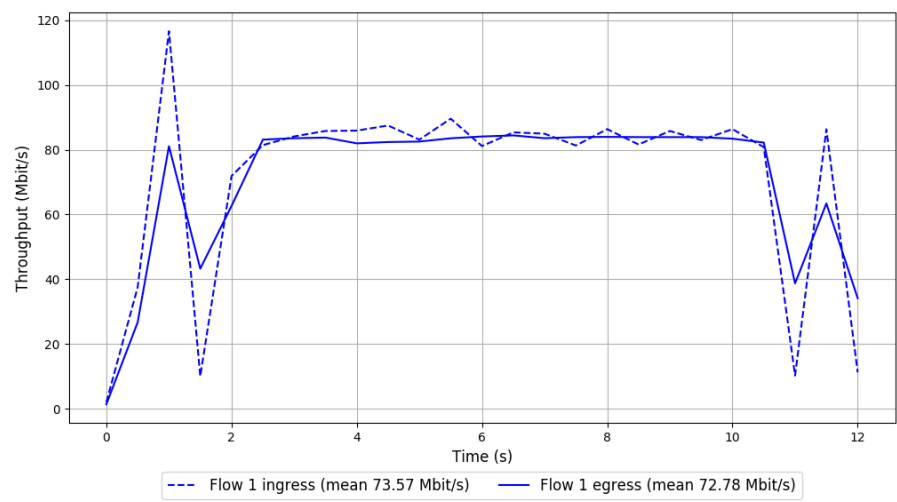Flow 1 (95th percentile 191.99 ms)

```
Run 7: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 21:01:08 +0000
End at: Sun, 16 Jul 2017 21:01:38 +0000
Local clock offset: 0.347 ms
Remote clock offset: -1.453 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:08:01 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.61 Mbit/s
95th percentile per-packet one-way delay: 190.518 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 71.61 Mbit/s
95th percentile per-packet one-way delay: 190.518 ms
Loss rate: 1.43%
```
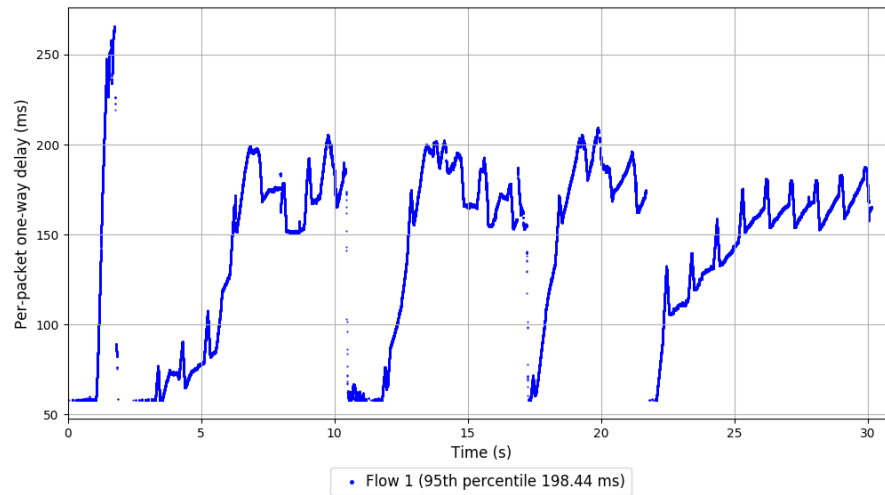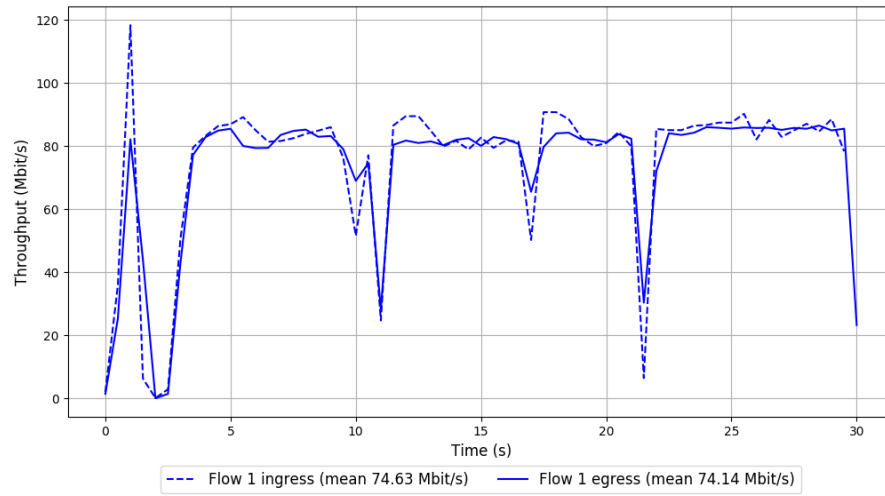
Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 72.89 Mbit/s)   —— Flow 1 egress (mean 71.61 Mbit/s)

· Flow 1 (95th percentile 190.52 ms)

Run 8: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 21:18:43 +0000
End at: Sun, 16 Jul 2017 21:19:13 +0000
Local clock offset: 0.278 ms
Remote clock offset: -2.399 ms

Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 73.57 Mbit/s)   Flow 1 egress (mean 72.78 Mbit/s)

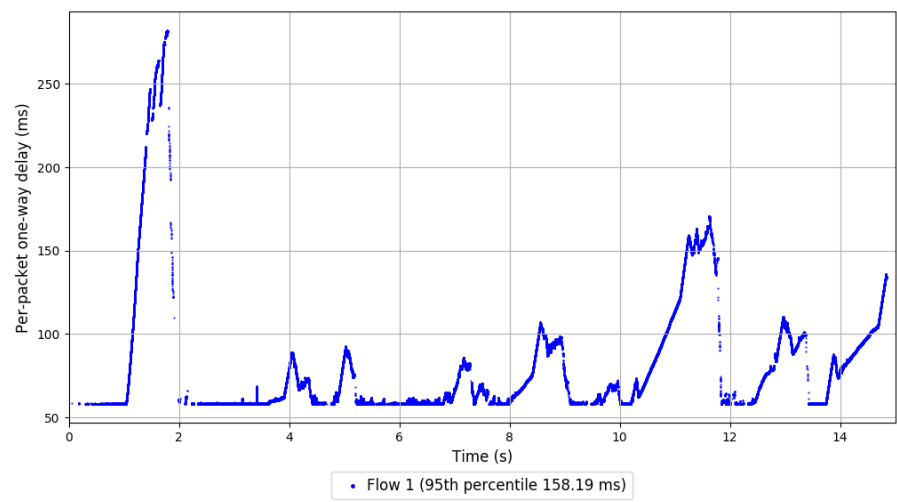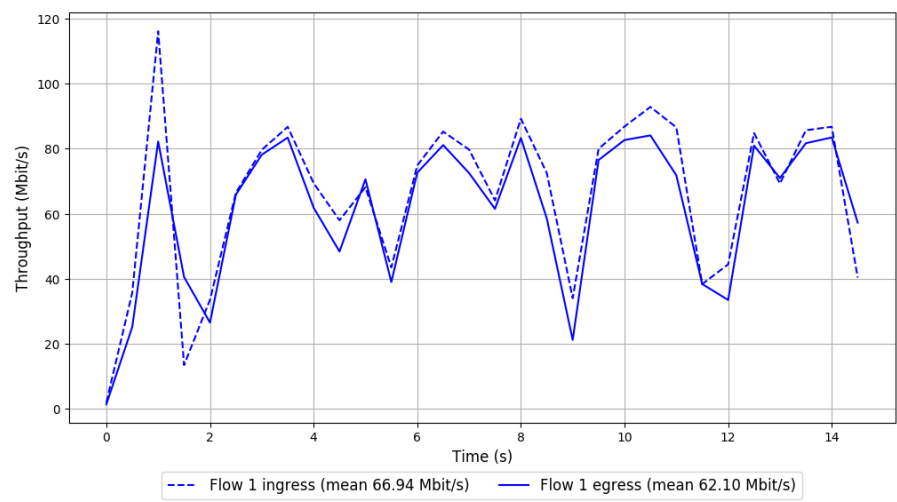Flow 1 (95th percentile 181.24 ms)

```
Run 9: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 21:36:06 +0000
End at: Sun, 16 Jul 2017 21:36:36 +0000
Local clock offset: 0.376 ms
Remote clock offset: -4.355 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:08:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.14 Mbit/s
95th percentile per-packet one-way delay: 198.443 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 74.14 Mbit/s
95th percentile per-packet one-way delay: 198.443 ms
Loss rate: 0.34%
```

Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 74.63 Mbit/s)   Flow 1 egress (mean 74.14 Mbit/s)

• Flow 1 (95th percentile 198.44 ms)

Run 10: Statistics of TCP BBR

Start at: Sun, 16 Jul 2017 21:53:26 +0000
End at: Sun, 16 Jul 2017 21:53:56 +0000
Local clock offset: 0.329 ms
Remote clock offset: -5.738 ms
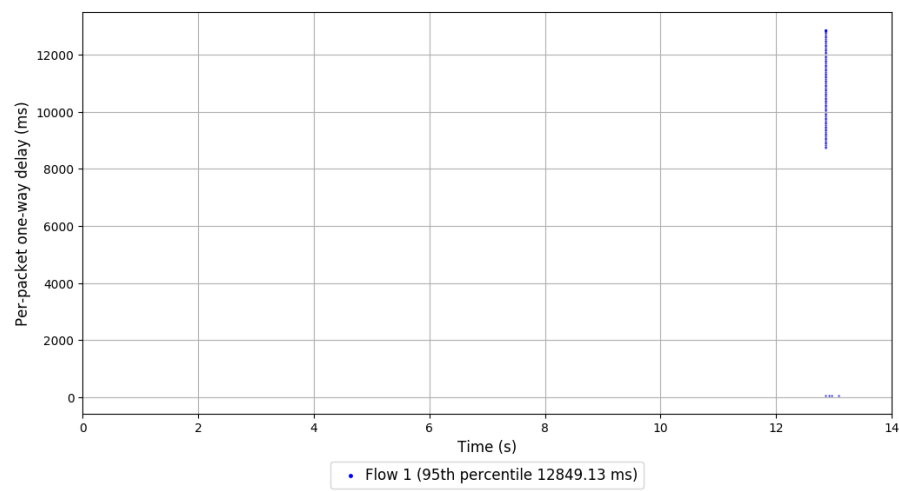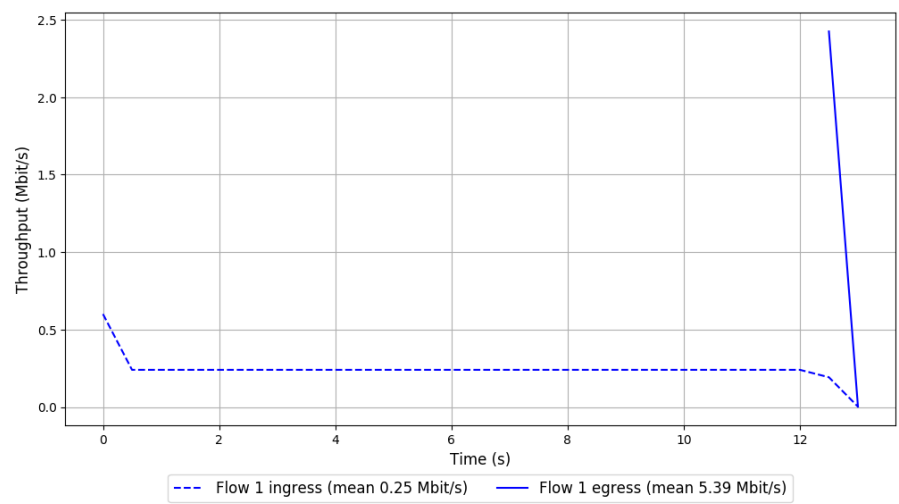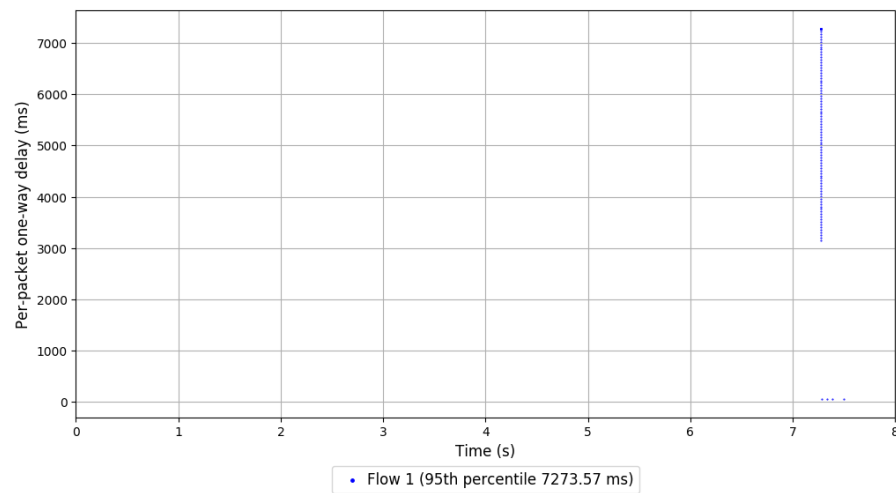
Run 10: Report of TCP BBR — Data Link

Flow 1 ingress (mean 66.94 Mbit/s) --- Flow 1 egress (mean 62.10 Mbit/s)

Flow 1 (95th percentile 158.19 ms)

23

```
Run 1: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 19:24:22 +0000
End at: Sun, 16 Jul 2017 19:24:52 +0000
Local clock offset: 0.379 ms
Remote clock offset: 1.244 ms
```

Run 1: Report of CalibratedKoho — Data Link
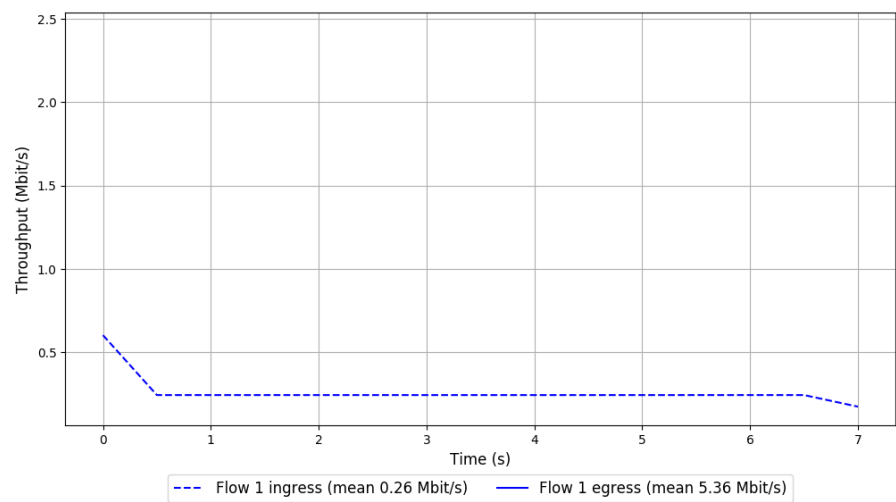
```
Run 2: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 19:41:40 +0000
End at: Sun, 16 Jul 2017 19:42:10 +0000
Local clock offset: 0.455 ms
Remote clock offset: 0.908 ms
```
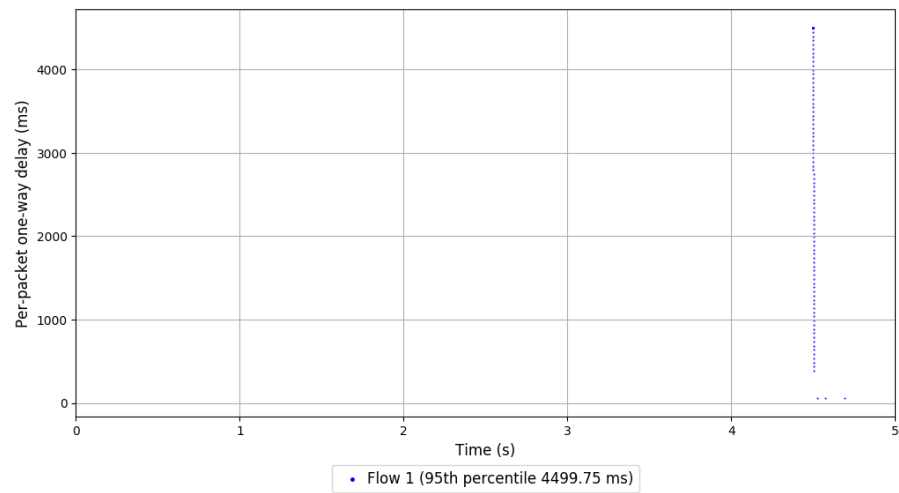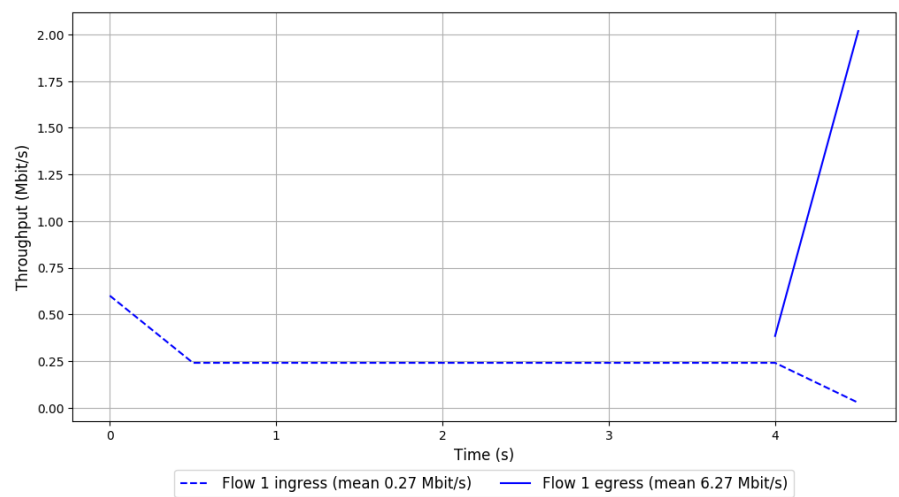
Run 2: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 0.26 Mbit/s) --- Flow 1 egress (mean 5.36 Mbit/s)

Flow 1 (95th percentile 7273.57 ms)

```
Run 3: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 19:59:04 +0000
End at: Sun, 16 Jul 2017 19:59:34 +0000
Local clock offset: 0.435 ms
Remote clock offset: 0.517 ms
```

Run 3: Report of CalibratedKoho — Data Link

```
Run 4: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 20:15:05 +0000
End at: Sun, 16 Jul 2017 20:15:35 +0000
Local clock offset: 0.391 ms

# Below is generated by plot.py at Mon, 17 Jul 2017 01:08:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.84 Mbit/s
95th percentile per-packet one-way delay: 83.715 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 67.84 Mbit/s
95th percentile per-packet one-way delay: 83.715 ms
Loss rate: 1.25%
```
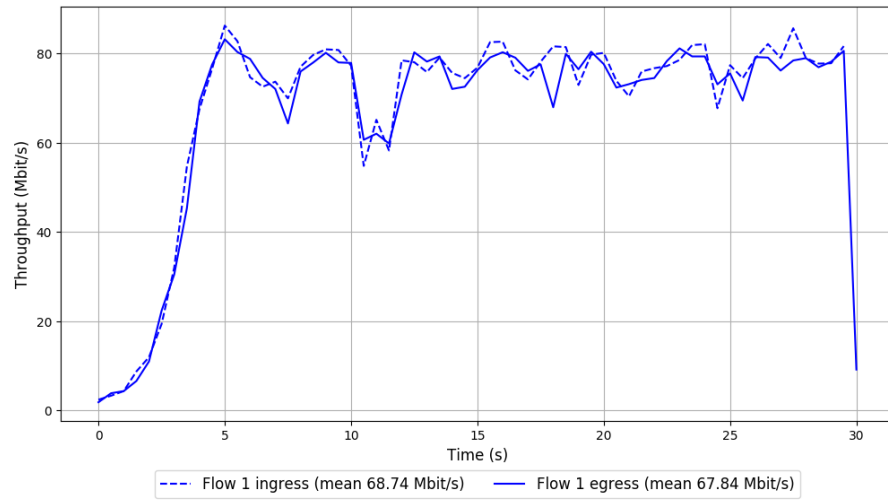
Run 4: Report of CalibratedKoho — Data Link

```
Run 5: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 20:29:01 +0000
End at: Sun, 16 Jul 2017 20:29:31 +0000
Local clock offset: 0.398 ms

# Below is generated by plot.py at Mon, 17 Jul 2017 01:08:21 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.51 Mbit/s
95th percentile per-packet one-way delay: 83.915 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 74.51 Mbit/s
95th percentile per-packet one-way delay: 83.915 ms
Loss rate: 0.60%
```
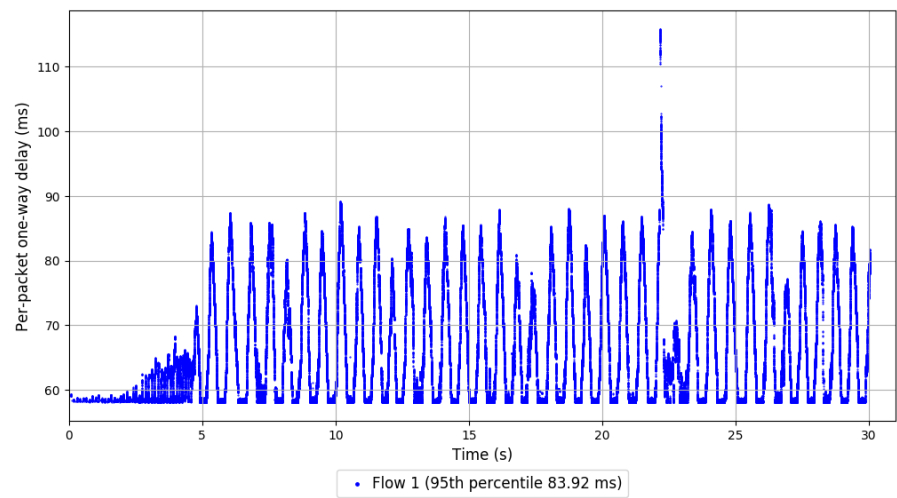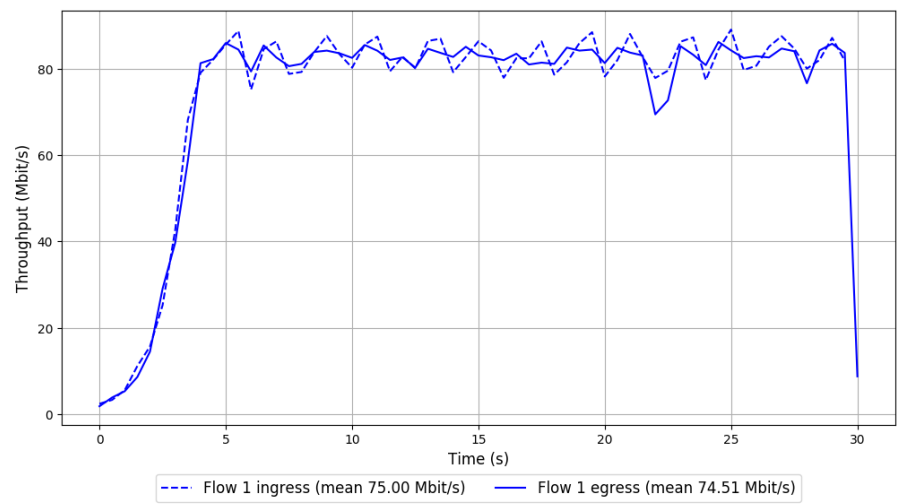
Run 5: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 75.00 Mbit/s) ----- Flow 1 egress (mean 74.51 Mbit/s)

Flow 1 (95th percentile 83.92 ms)

```
Run 6: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 20:45:58 +0000
End at: Sun, 16 Jul 2017 20:46:28 +0000
Local clock offset: 0.403 ms
Remote clock offset: 0.052 ms
```
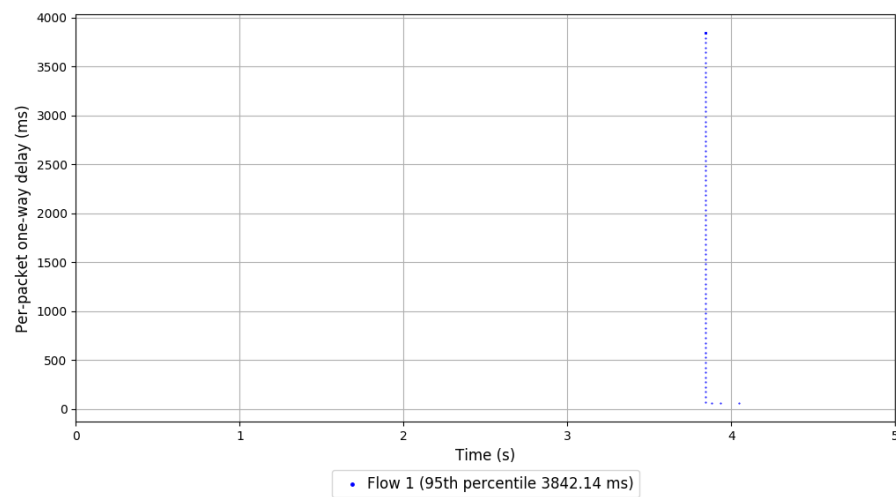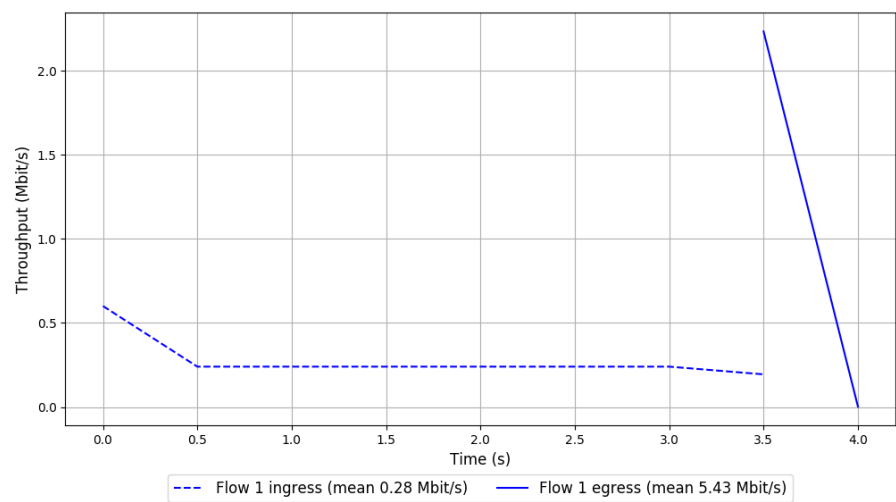
Run 6: Report of CalibratedKoho — Data Link

```
Run 7: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 21:03:35 +0000
End at: Sun, 16 Jul 2017 21:04:05 +0000
Local clock offset: 0.433 ms
Remote clock offset: -1.397 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:08:27 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.97 Mbit/s
95th percentile per-packet one-way delay: 80.029 ms
Loss rate: 10.00%
-- Flow 1:
Average throughput: 63.97 Mbit/s
95th percentile per-packet one-way delay: 80.029 ms
Loss rate: 10.00%
```
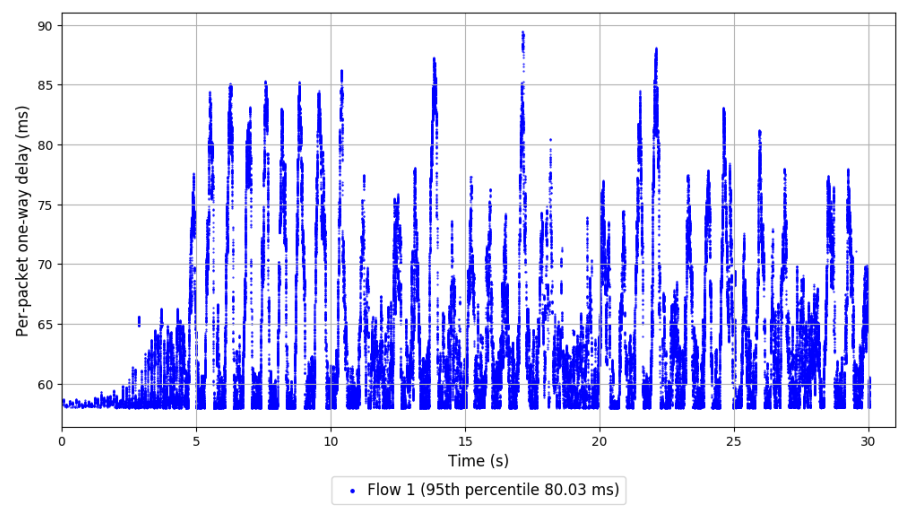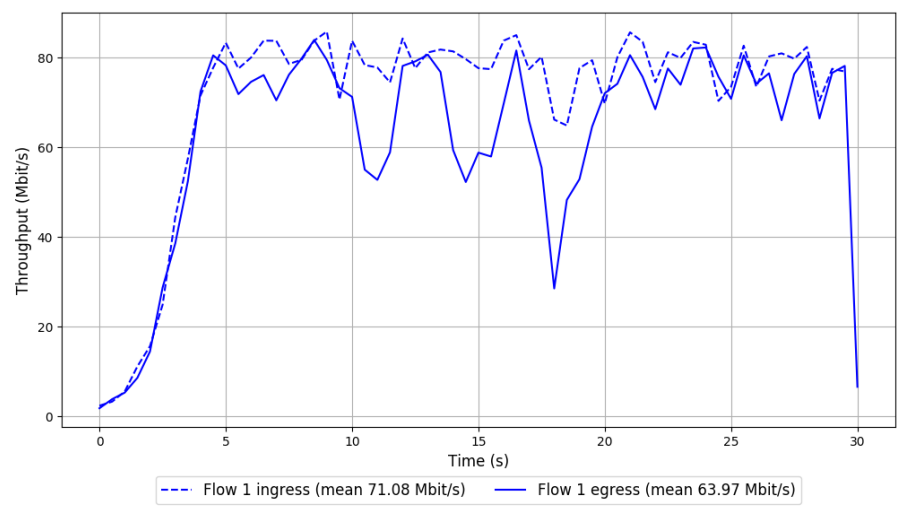
Run 7: Report of CalibratedKoho — Data Link
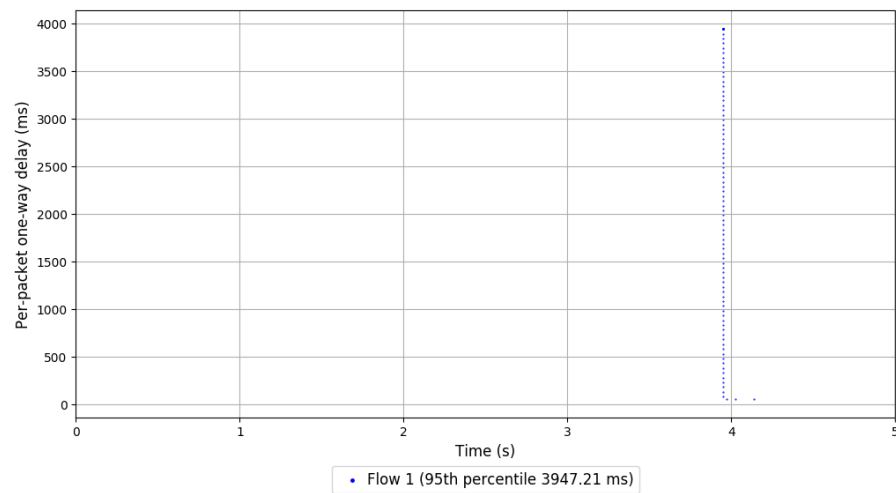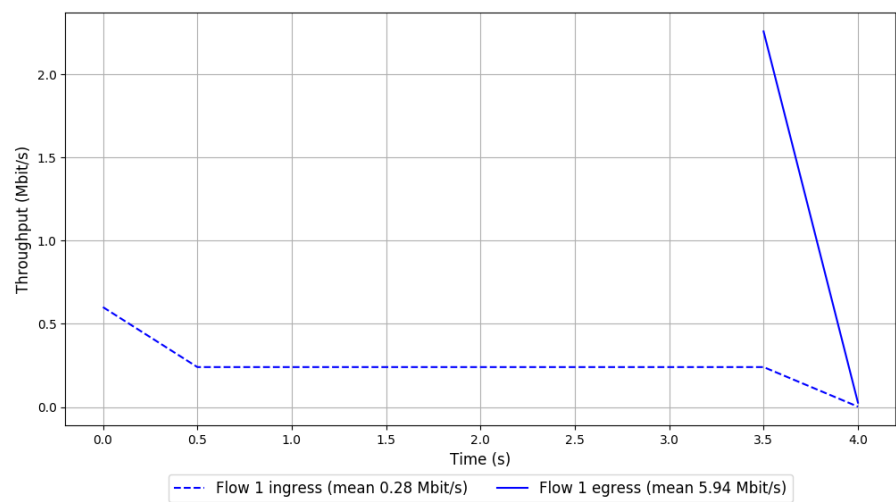
```
Run 8: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 21:21:04 +0000
End at: Sun, 16 Jul 2017 21:21:34 +0000
Local clock offset: 0.296 ms
Remote clock offset: -2.56 ms
```

Run 8: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 0.28 Mbit/s) — Flow 1 egress (mean 5.94 Mbit/s)

Flow 1 (95th percentile 3947.21 ms)

```
Run 9: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 21:38:33 +0000
End at: Sun, 16 Jul 2017 21:39:03 +0000
Local clock offset: 0.169 ms
Remote clock offset: -4.736 ms
```
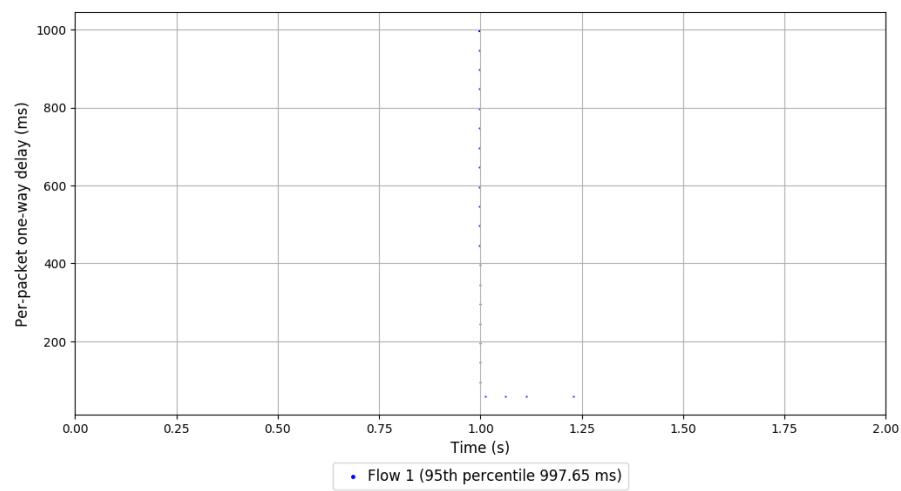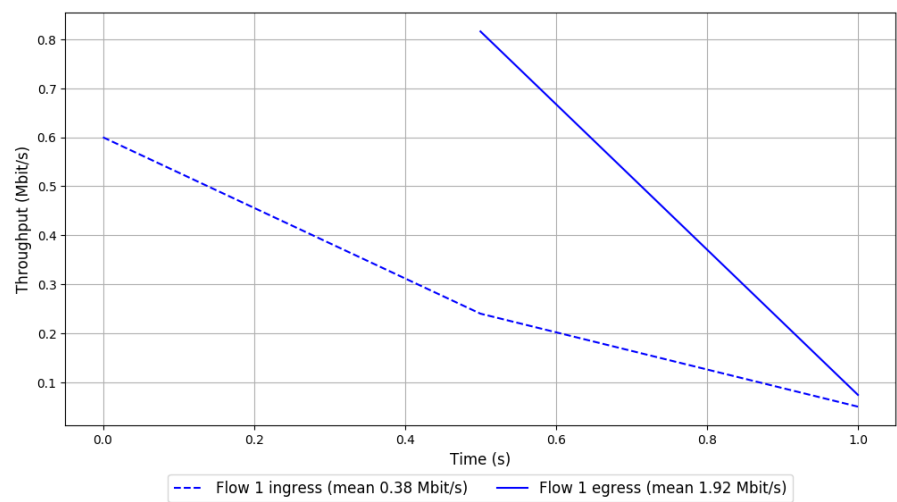
Run 9: Report of CalibratedKoho — Data Link
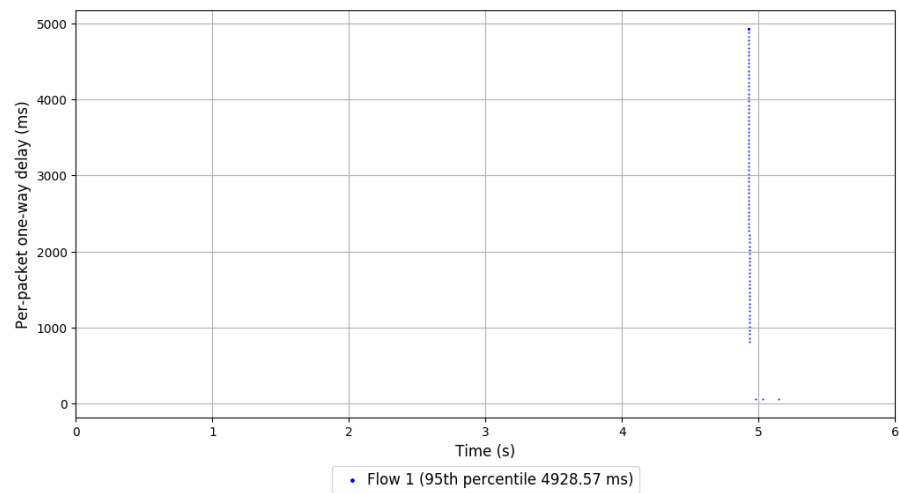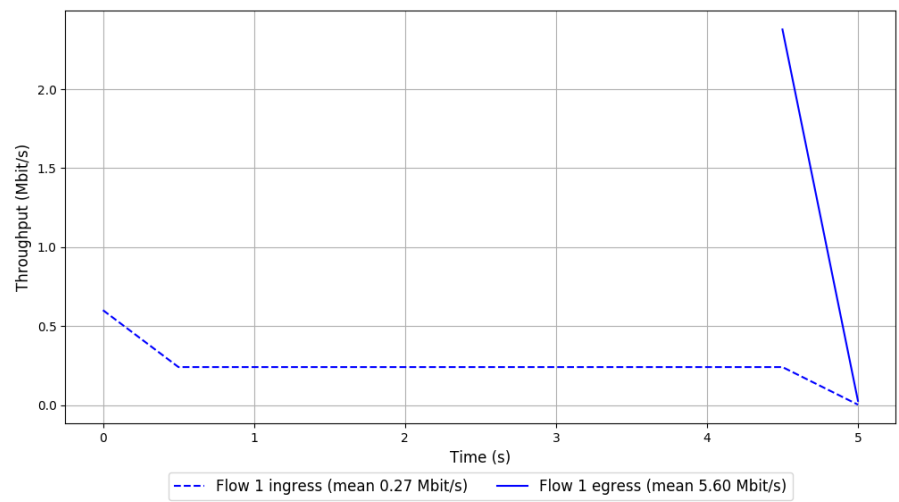
Run 10: Statistics of CalibratedKoho

Start at: Sun, 16 Jul 2017 21:55:49 +0000
End at: Sun, 16 Jul 2017 21:56:19 +0000
Local clock offset: 0.325 ms
Remote clock offset: -5.734 ms

Run 10: Report of CalibratedKoho — Data Link

```
Run 1: Statistics of Copa

Start at: Sun, 16 Jul 2017 19:11:33 +0000
End at: Sun, 16 Jul 2017 19:12:03 +0000
Local clock offset: 0.448 ms
Remote clock offset: 1.121 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:08:35 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.96 Mbit/s
95th percentile per-packet one-way delay: 60.524 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 52.96 Mbit/s
95th percentile per-packet one-way delay: 60.524 ms
Loss rate: 0.06%
```
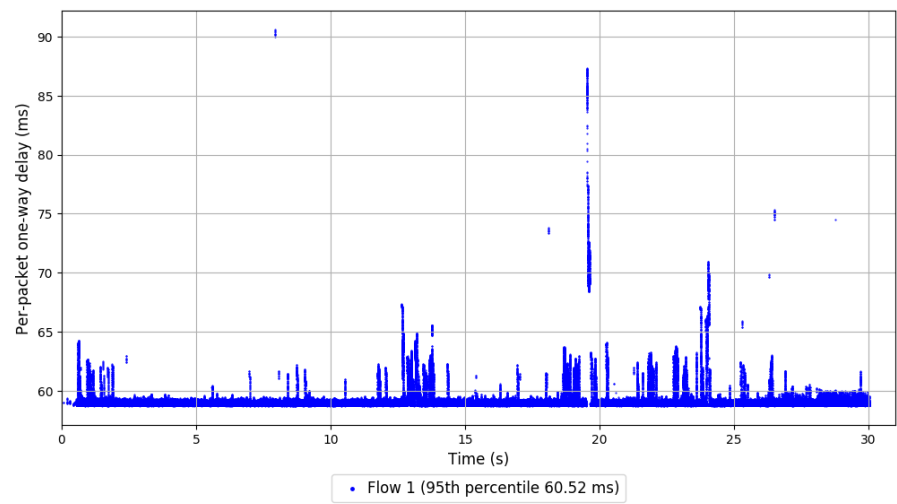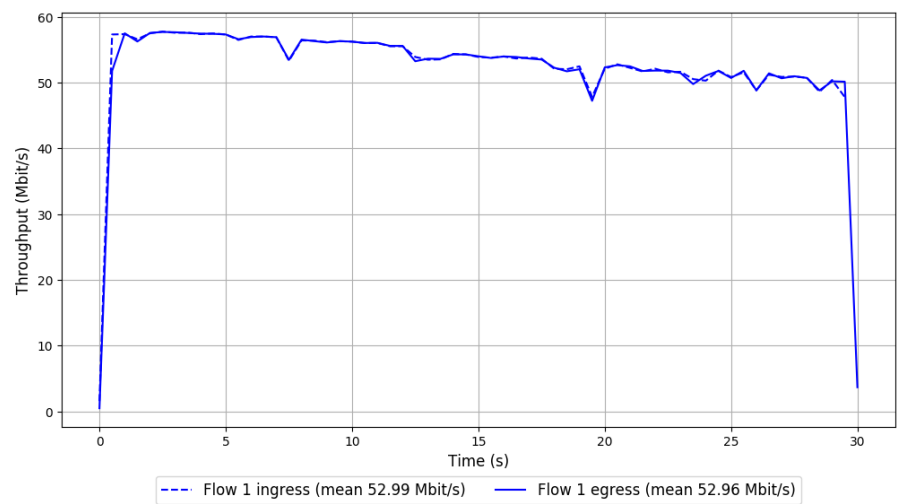
Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: Sun, 16 Jul 2017 19:28:47 +0000
End at: Sun, 16 Jul 2017 19:29:17 +0000
Local clock offset: 0.437 ms
Remote clock offset: 1.396 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:08:41 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.95 Mbit/s
95th percentile per-packet one-way delay: 62.136 ms
Loss rate: 5.49%
-- Flow 1:
Average throughput: 53.95 Mbit/s
95th percentile per-packet one-way delay: 62.136 ms
Loss rate: 5.49%
```
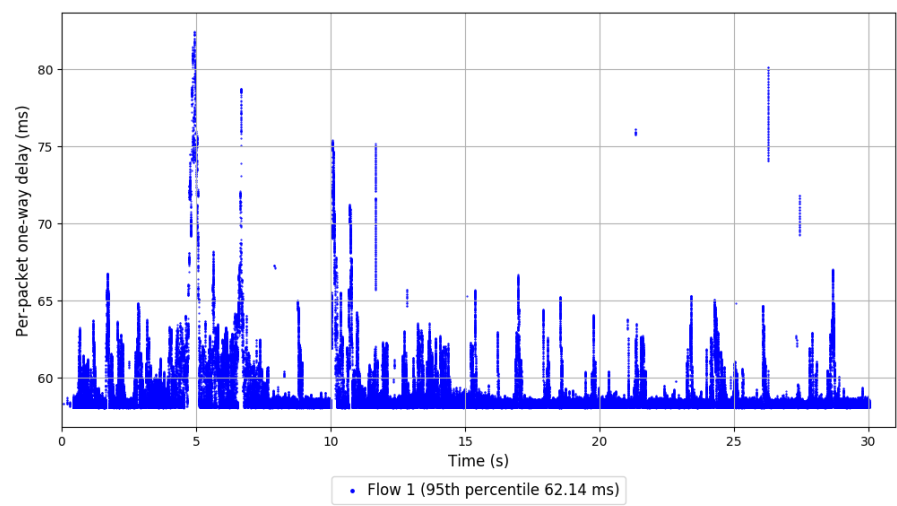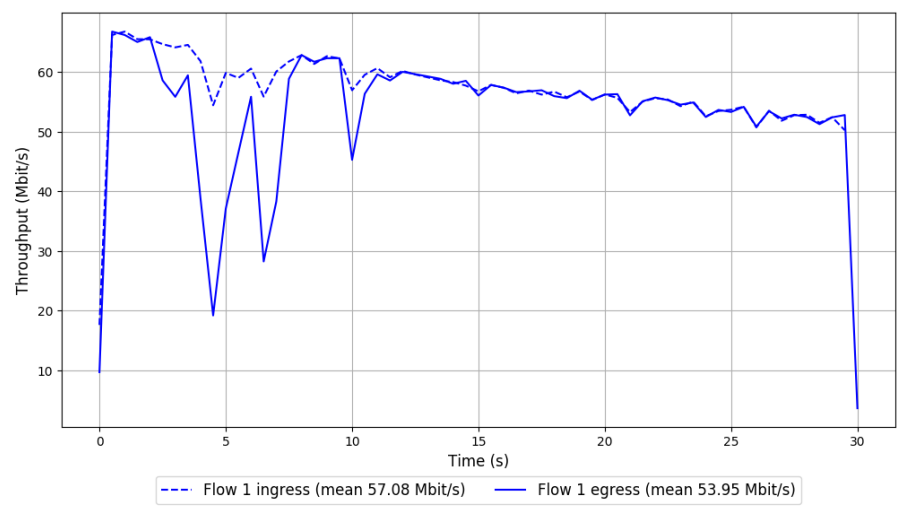
Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: Sun, 16 Jul 2017 19:46:05 +0000
End at: Sun, 16 Jul 2017 19:46:35 +0000
Local clock offset: 0.46 ms
Remote clock offset: 0.96 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:08:46 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.48 Mbit/s
95th percentile per-packet one-way delay: 57.442 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 38.48 Mbit/s
95th percentile per-packet one-way delay: 57.442 ms
Loss rate: 0.05%
```
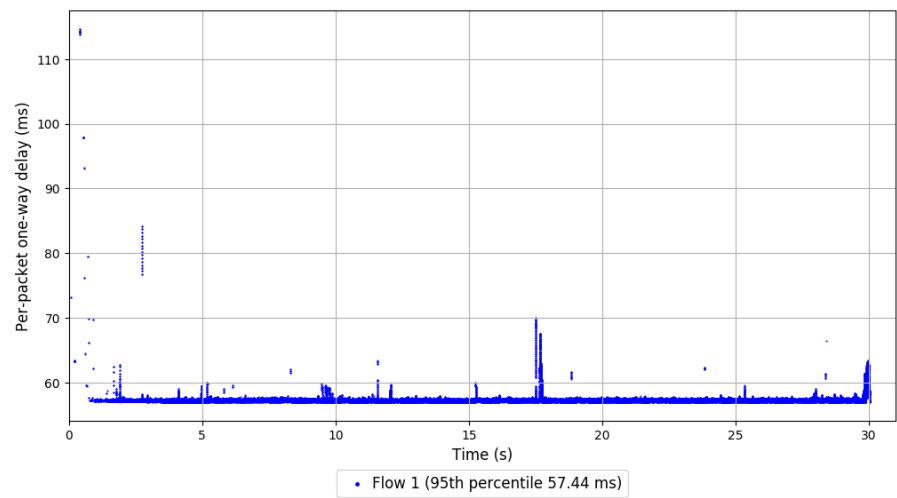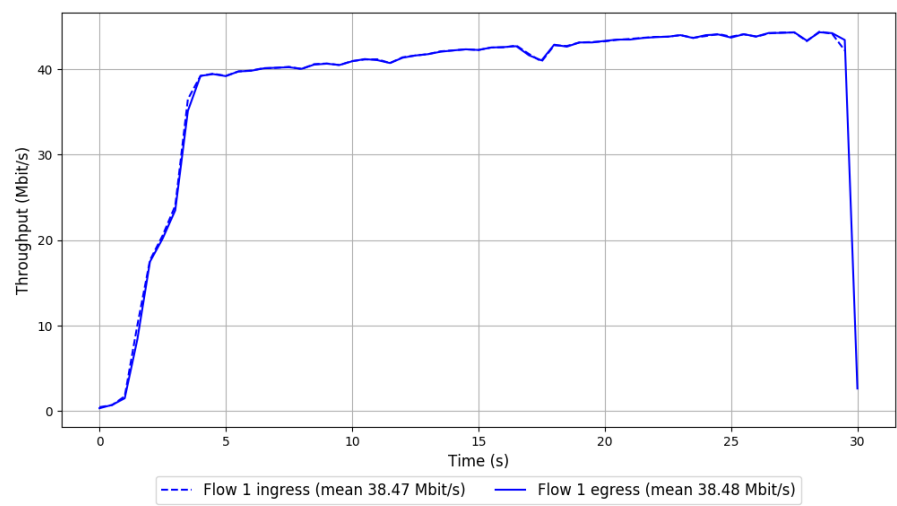
Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: Sun, 16 Jul 2017 20:03:29 +0000
End at: Sun, 16 Jul 2017 20:03:59 +0000
Local clock offset: 0.403 ms
Remote clock offset: 0.5 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:08:58 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.06 Mbit/s
95th percentile per-packet one-way delay: 58.064 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 64.06 Mbit/s
95th percentile per-packet one-way delay: 58.064 ms
Loss rate: 0.03%
```
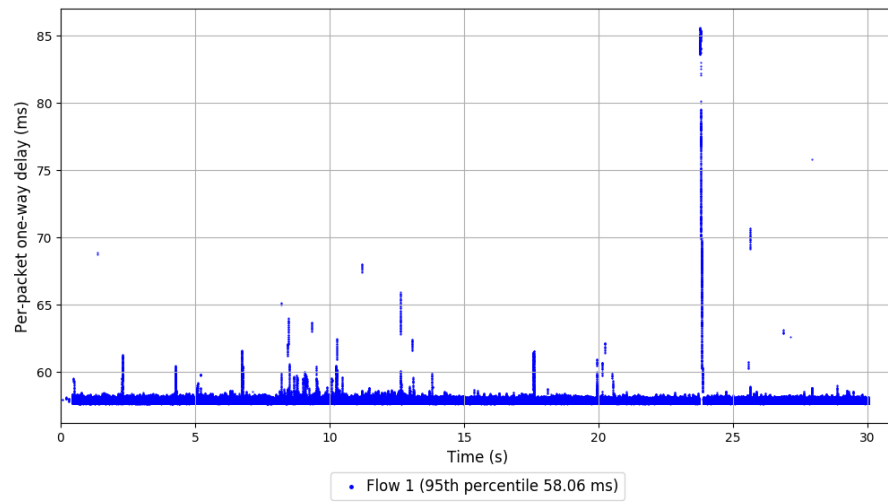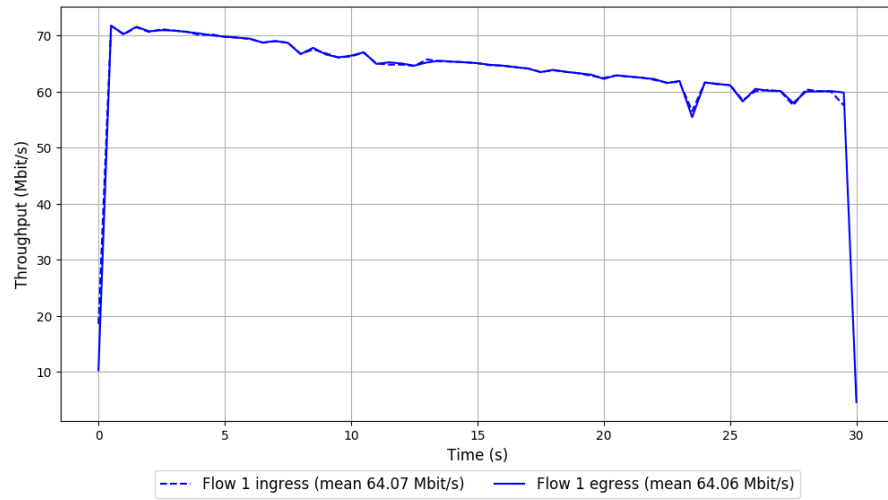
Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: Sun, 16 Jul 2017 20:18:39 +0000
End at: Sun, 16 Jul 2017 20:19:09 +0000
Local clock offset: 0.4 ms

# Below is generated by plot.py at Mon, 17 Jul 2017 01:08:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.86 Mbit/s
95th percentile per-packet one-way delay: 159.291 ms
Loss rate: 3.50%
-- Flow 1:
Average throughput: 45.86 Mbit/s
95th percentile per-packet one-way delay: 159.291 ms
Loss rate: 3.50%
```
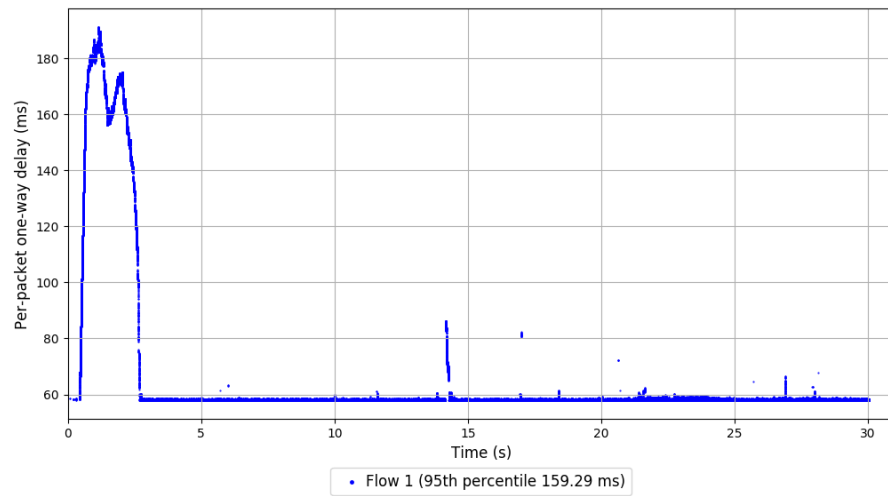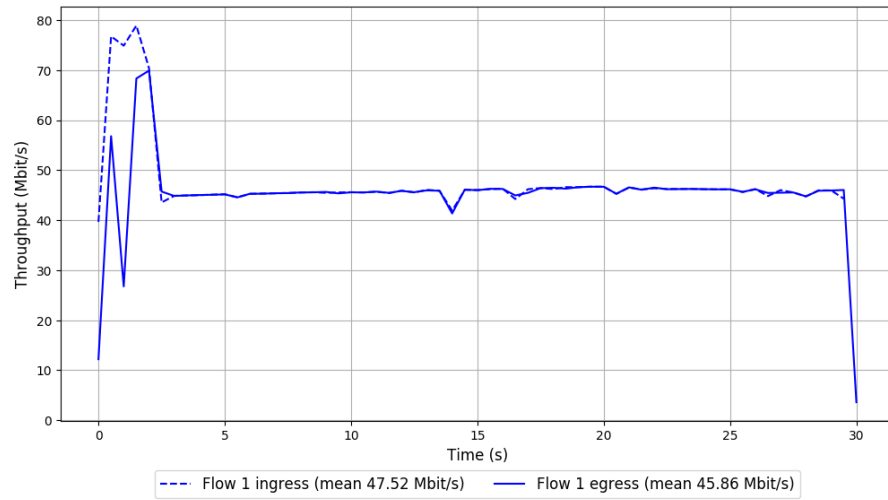
Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 47.52 Mbit/s)   Flow 1 egress (mean 45.86 Mbit/s)

Flow 1 (95th percentile 159.29 ms)

```
Run 6: Statistics of Copa

Start at: Sun, 16 Jul 2017 20:33:08 +0000
End at: Sun, 16 Jul 2017 20:33:38 +0000
Local clock offset: 0.394 ms
Remote clock offset: 0.356 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:09:06 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.10 Mbit/s
95th percentile per-packet one-way delay: 58.082 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 41.10 Mbit/s
95th percentile per-packet one-way delay: 58.082 ms
Loss rate: 0.02%
```
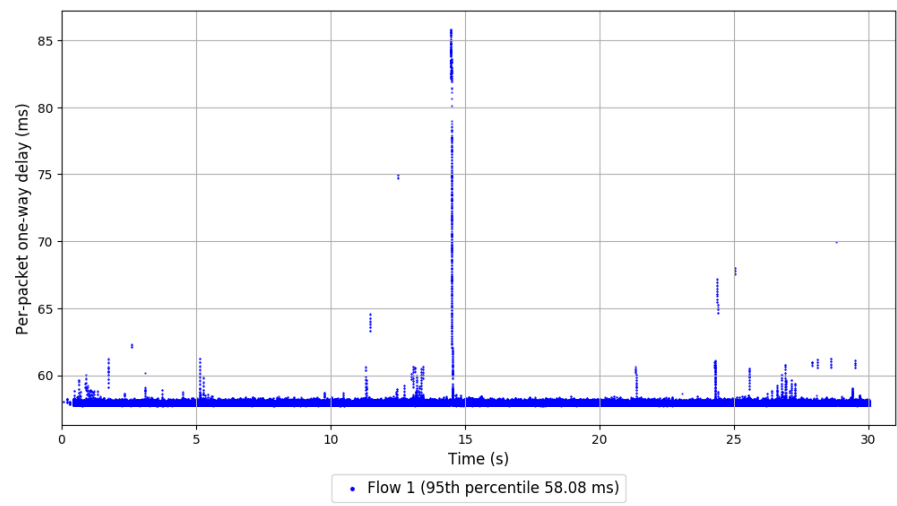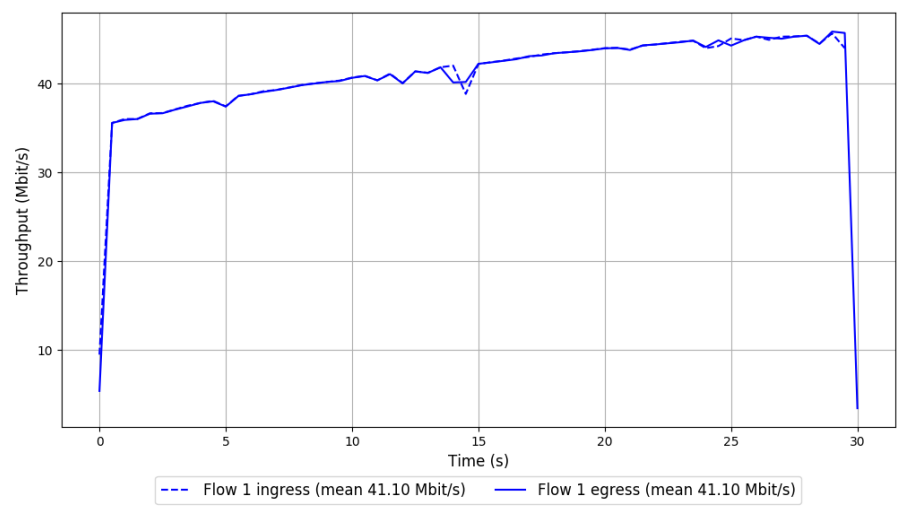
Run 6: Report of Copa — Data Link

Flow 1 ingress (mean 41.10 Mbit/s) --- Flow 1 egress (mean 41.10 Mbit/s)

Flow 1 (95th percentile 58.08 ms)

```
Run 7: Statistics of Copa

Start at: Sun, 16 Jul 2017 20:50:28 +0000
End at: Sun, 16 Jul 2017 20:50:58 +0000
Local clock offset: 0.359 ms
Remote clock offset: -0.832 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:09:10 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.55 Mbit/s
95th percentile per-packet one-way delay: 76.590 ms
Loss rate: 3.23%
-- Flow 1:
Average throughput: 43.55 Mbit/s
95th percentile per-packet one-way delay: 76.590 ms
Loss rate: 3.23%
```
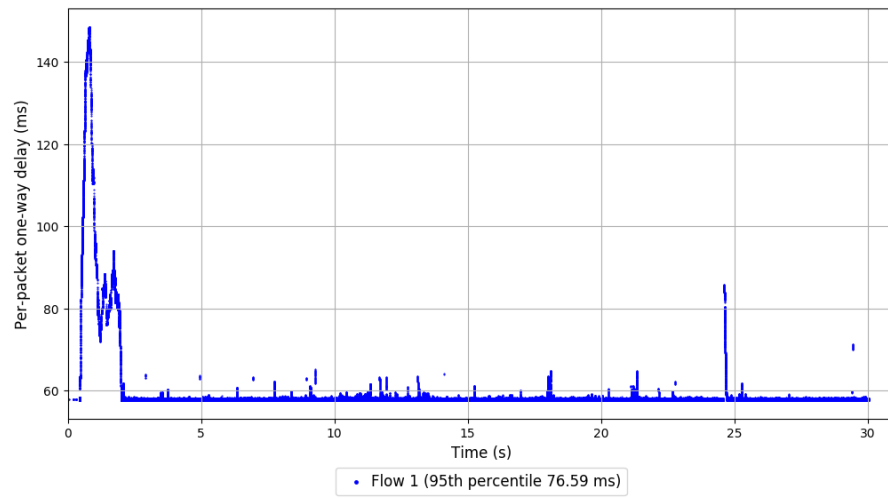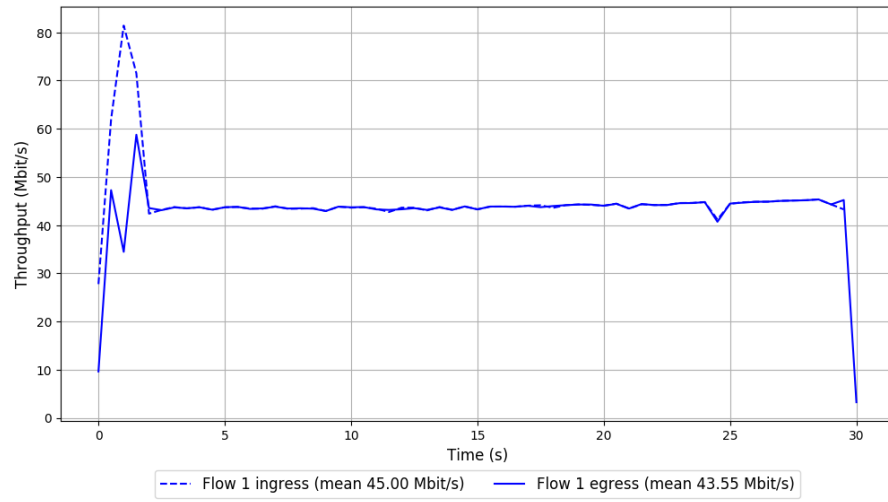
Run 7: Report of Copa — Data Link

Flow 1 ingress (mean 45.00 Mbit/s) --- Flow 1 egress (mean 43.55 Mbit/s) ---

Flow 1 (95th percentile 76.59 ms)

```
Run 8: Statistics of Copa

Start at: Sun, 16 Jul 2017 21:08:12 +0000
End at: Sun, 16 Jul 2017 21:08:42 +0000
Local clock offset: 0.401 ms
Remote clock offset: -1.695 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:09:23 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.63 Mbit/s
95th percentile per-packet one-way delay: 57.553 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 58.63 Mbit/s
95th percentile per-packet one-way delay: 57.553 ms
Loss rate: 0.04%
```
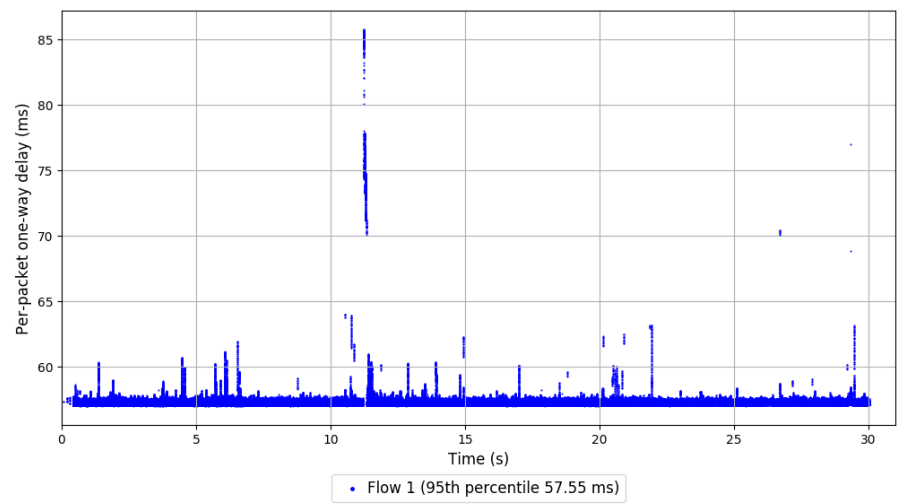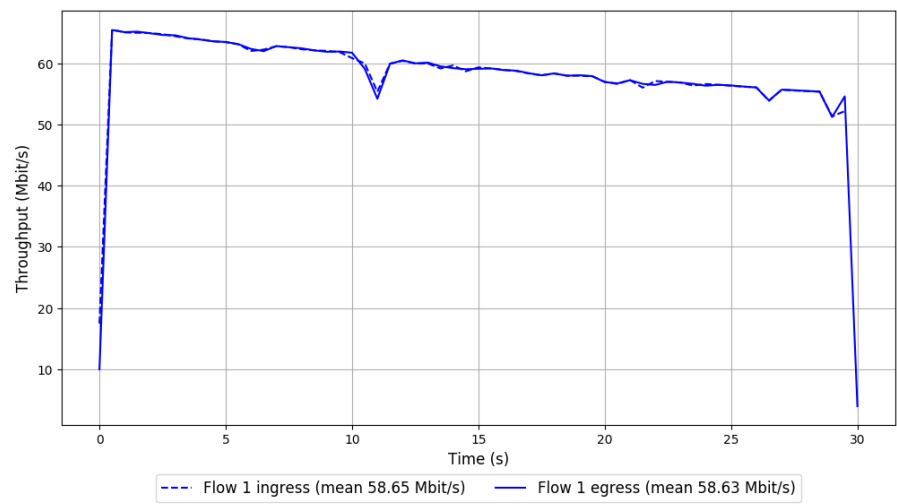
Run 8: Report of Copa — Data Link

```
Run 9: Statistics of Copa

Start at: Sun, 16 Jul 2017 21:25:34 +0000
End at: Sun, 16 Jul 2017 21:26:04 +0000
Local clock offset: 0.269 ms
Remote clock offset: -3.016 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:09:23 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.14 Mbit/s
95th percentile per-packet one-way delay: 68.073 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 31.14 Mbit/s
95th percentile per-packet one-way delay: 68.073 ms
Loss rate: 0.31%
```
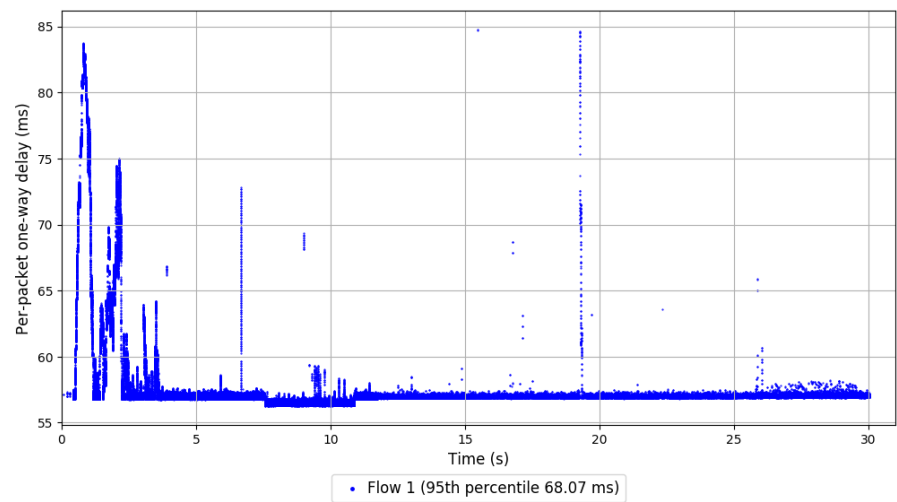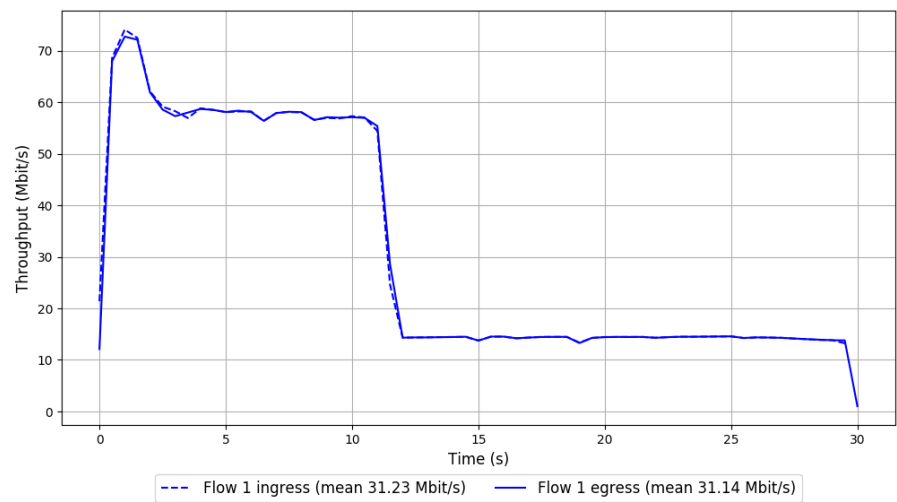
Run 9: Report of Copa — Data Link

Flow 1 ingress (mean 31.23 Mbit/s)   Flow 1 egress (mean 31.14 Mbit/s)

Flow 1 (95th percentile 68.07 ms)

```
Run 10: Statistics of Copa

Start at: Sun, 16 Jul 2017 21:43:03 +0000
End at: Sun, 16 Jul 2017 21:43:33 +0000
Local clock offset: 0.283 ms
Remote clock offset: -5.215 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:09:24 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.81 Mbit/s
95th percentile per-packet one-way delay: 92.049 ms
Loss rate: 5.64%
-- Flow 1:
Average throughput: 20.81 Mbit/s
95th percentile per-packet one-way delay: 92.049 ms
Loss rate: 5.64%
```
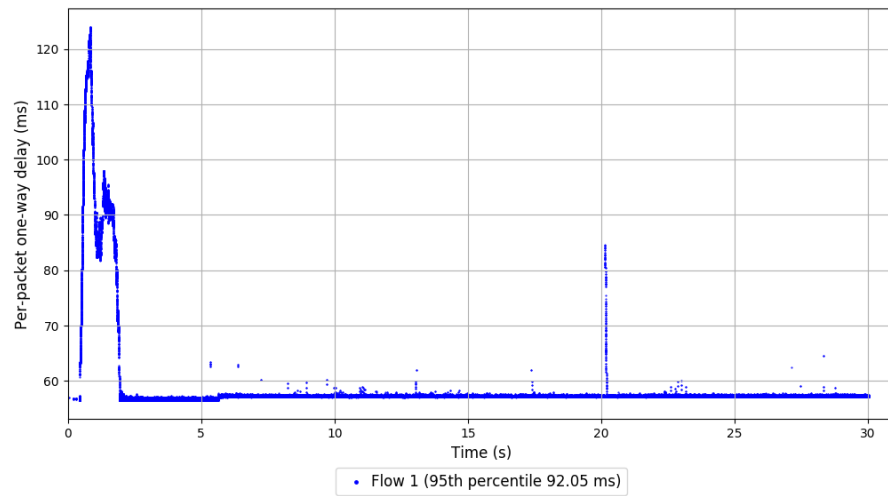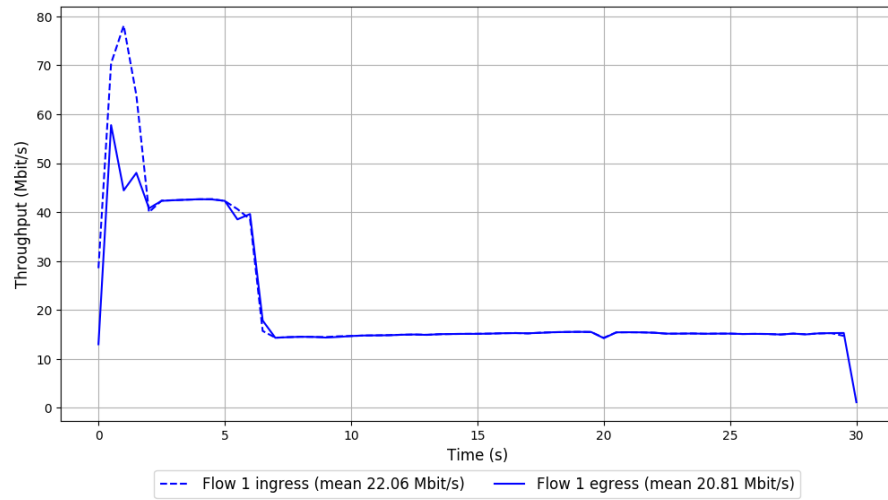
Run 10: Report of Copa — Data Link

Flow 1 ingress (mean 22.06 Mbit/s) --- Flow 1 egress (mean 20.81 Mbit/s)

Flow 1 (95th percentile 92.05 ms)

63

```
Run 1: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 19:18:40 +0000
End at: Sun, 16 Jul 2017 19:19:10 +0000
Local clock offset: 0.382 ms
Remote clock offset: 1.151 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:09:30 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.48 Mbit/s
95th percentile per-packet one-way delay: 60.934 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 54.48 Mbit/s
95th percentile per-packet one-way delay: 60.934 ms
Loss rate: 0.18%
```
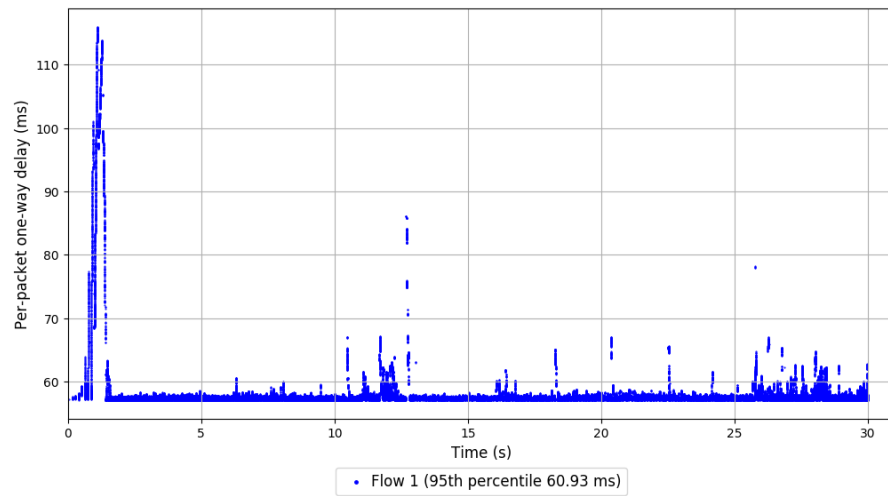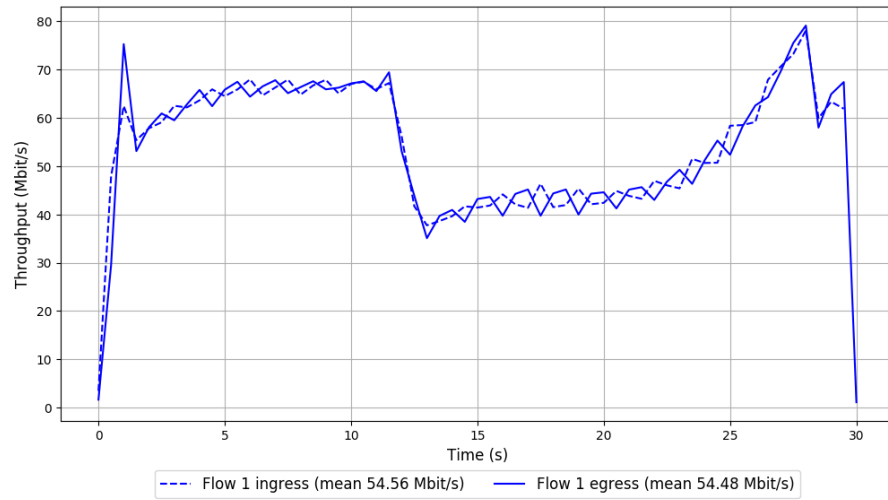
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 19:35:51 +0000
End at: Sun, 16 Jul 2017 19:36:21 +0000
Local clock offset: 0.473 ms
Remote clock offset: 0.909 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:09:34 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.10 Mbit/s
95th percentile per-packet one-way delay: 196.694 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 71.10 Mbit/s
95th percentile per-packet one-way delay: 196.694 ms
Loss rate: 0.13%
```
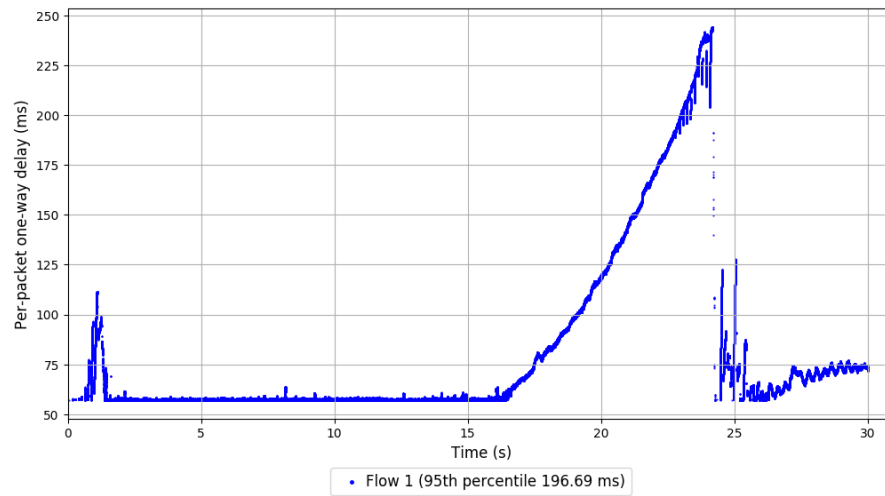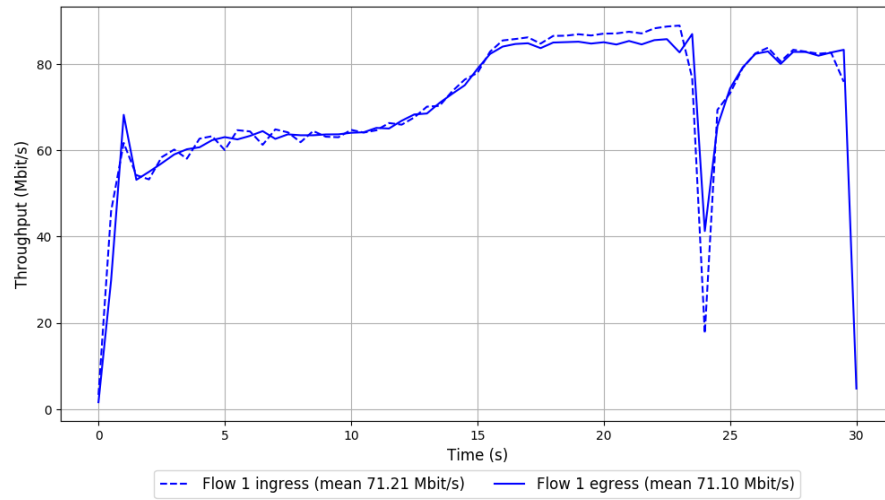
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 19:53:13 +0000
End at: Sun, 16 Jul 2017 19:53:43 +0000
Local clock offset: 0.422 ms
Remote clock offset: 0.828 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:09:39 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.48 Mbit/s
95th percentile per-packet one-way delay: 203.626 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 57.48 Mbit/s
95th percentile per-packet one-way delay: 203.626 ms
Loss rate: 1.03%
```
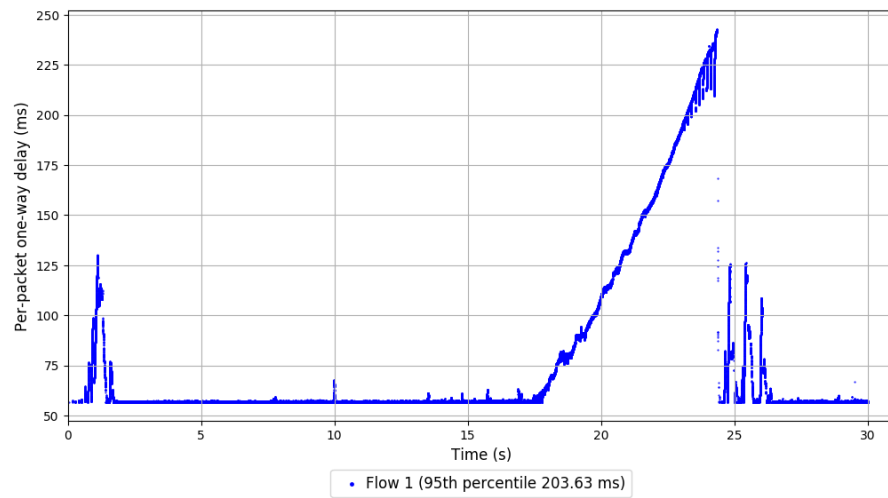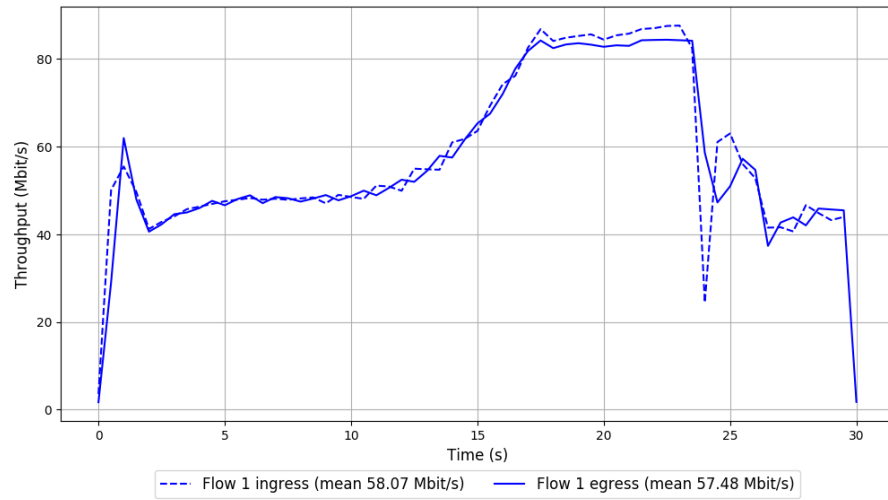
Run 3: Report of TCP Cubic — Data Link

```
Run 4: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 20:10:20 +0000
End at: Sun, 16 Jul 2017 20:10:50 +0000
Local clock offset: 0.407 ms

# Below is generated by plot.py at Mon, 17 Jul 2017 01:09:40 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.78 Mbit/s
95th percentile per-packet one-way delay: 73.576 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 37.78 Mbit/s
95th percentile per-packet one-way delay: 73.576 ms
Loss rate: 0.43%
```
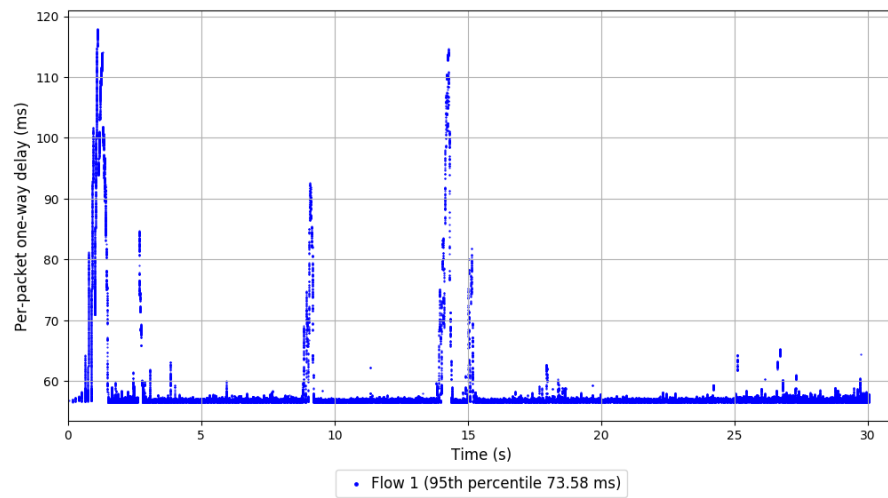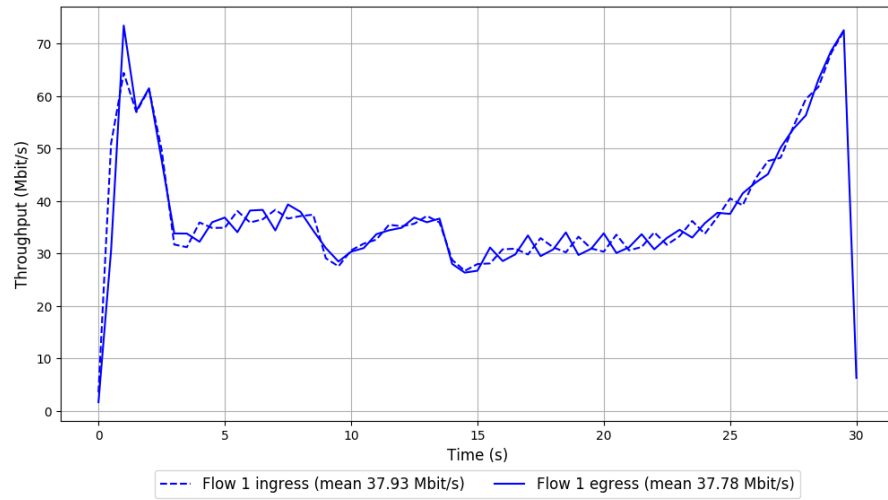
Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 37.93 Mbit/s) ----- Flow 1 egress (mean 37.78 Mbit/s) ——

Flow 1 (95th percentile 73.58 ms)

```
Run 5: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 20:24:14 +0000
End at: Sun, 16 Jul 2017 20:24:44 +0000
Local clock offset: 0.362 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:09:48 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.48 Mbit/s
95th percentile per-packet one-way delay: 133.282 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 67.48 Mbit/s
95th percentile per-packet one-way delay: 133.282 ms
Loss rate: 0.05%
```
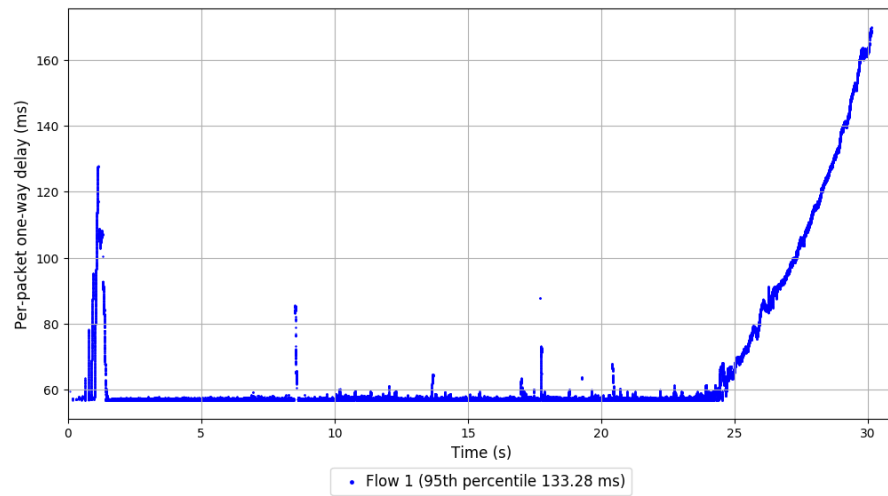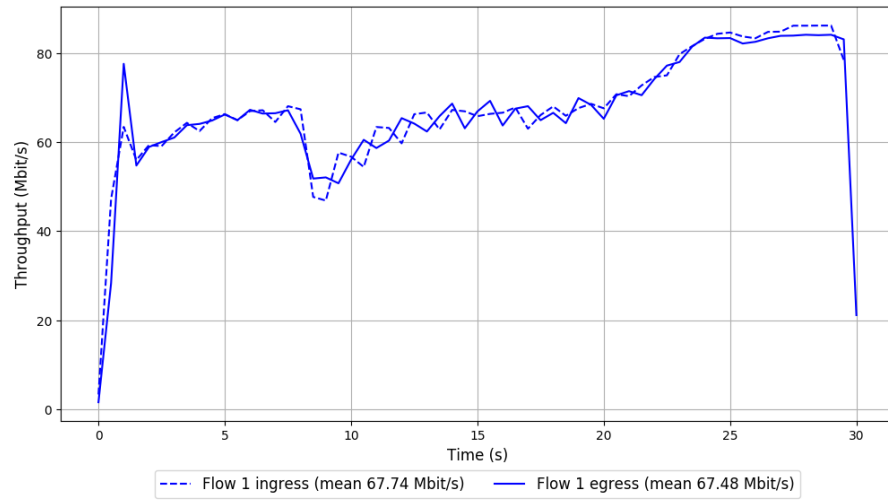
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 67.74 Mbit/s)   —— Flow 1 egress (mean 67.48 Mbit/s)

• Flow 1 (95th percentile 133.28 ms)

```
Run 6: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 20:40:07 +0000
End at: Sun, 16 Jul 2017 20:40:37 +0000
Local clock offset: 0.347 ms
Remote clock offset: 0.178 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:09:48 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.06 Mbit/s
95th percentile per-packet one-way delay: 71.953 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 51.06 Mbit/s
95th percentile per-packet one-way delay: 71.953 ms
Loss rate: 0.30%
```
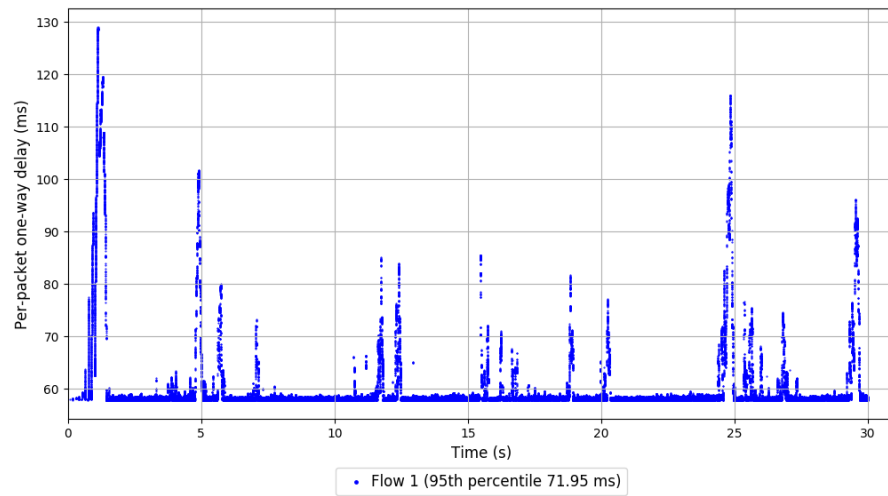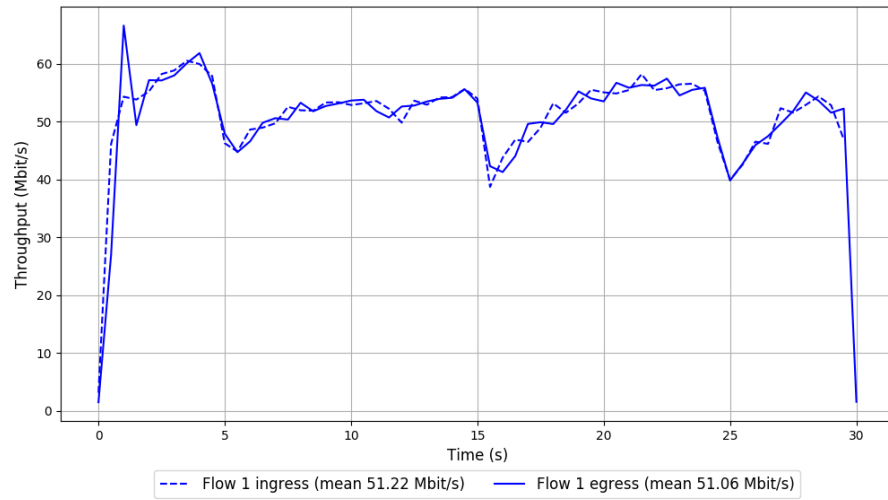
Run 6: Report of TCP Cubic — Data Link

```
Run 7: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 20:57:34 +0000
End at: Sun, 16 Jul 2017 20:58:04 +0000
Local clock offset: 0.281 ms
Remote clock offset: -1.386 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:09:57 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.66 Mbit/s
95th percentile per-packet one-way delay: 88.936 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 68.66 Mbit/s
95th percentile per-packet one-way delay: 88.936 ms
Loss rate: 0.45%
```
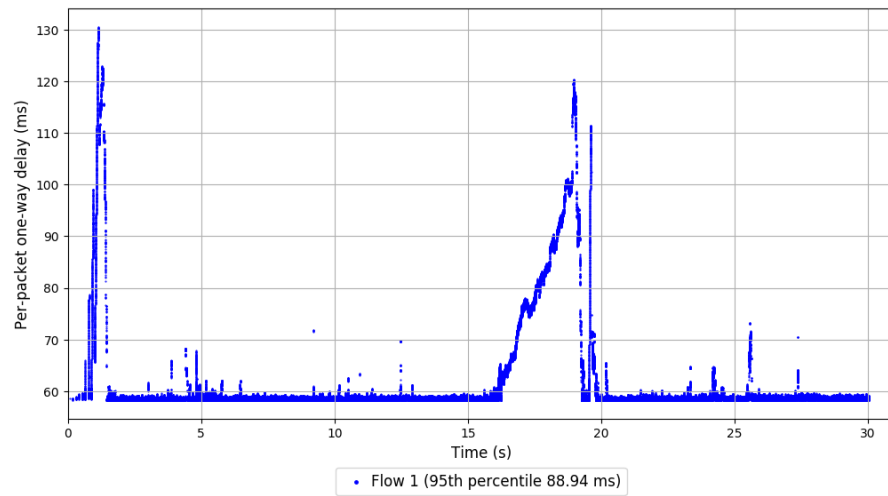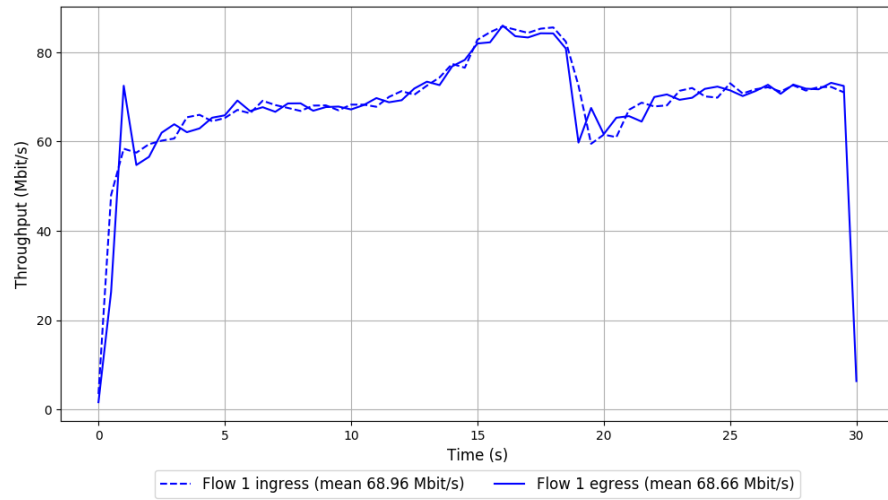
Run 7: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 68.96 Mbit/s) —— Flow 1 egress (mean 68.66 Mbit/s)

· Flow 1 (95th percentile 88.94 ms)

```
Run 8: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 21:15:16 +0000
End at: Sun, 16 Jul 2017 21:15:46 +0000
Local clock offset: 0.414 ms
Remote clock offset: -2.215 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:09:57 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 96.875 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 96.875 ms
Loss rate: 1.03%
```
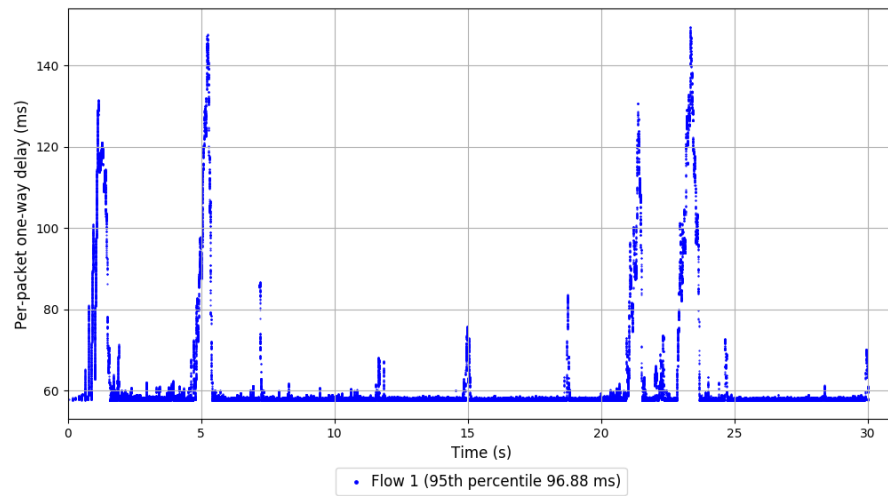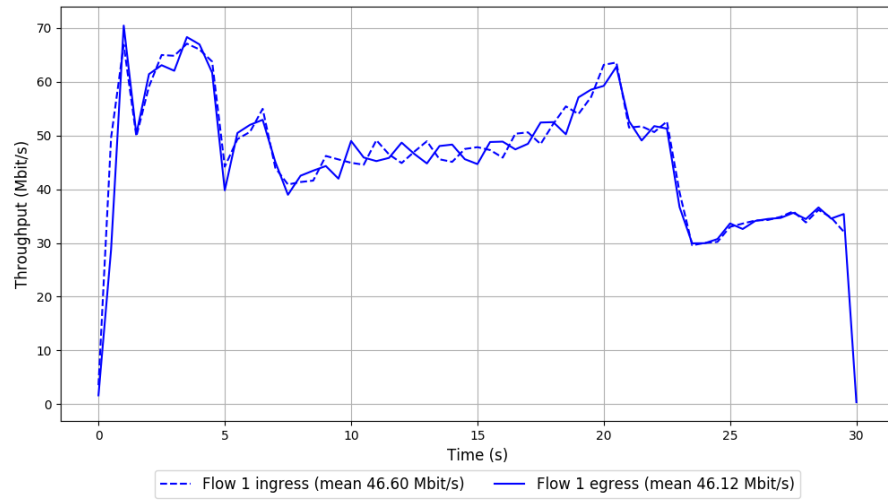
Run 8: Report of TCP Cubic — Data Link

```
Run 9: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 21:32:37 +0000
End at: Sun, 16 Jul 2017 21:33:07 +0000
Local clock offset: 0.277 ms
Remote clock offset: -3.953 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:06 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.75 Mbit/s
95th percentile per-packet one-way delay: 189.474 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 79.75 Mbit/s
95th percentile per-packet one-way delay: 189.474 ms
Loss rate: 0.14%
```
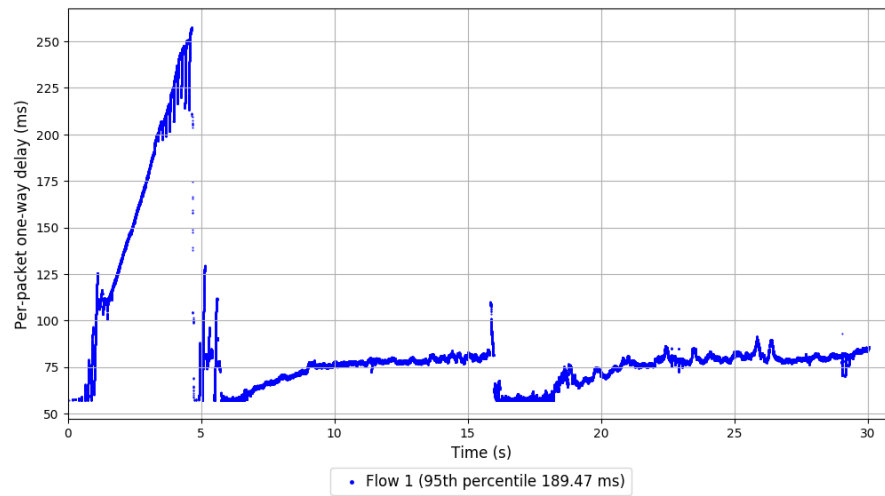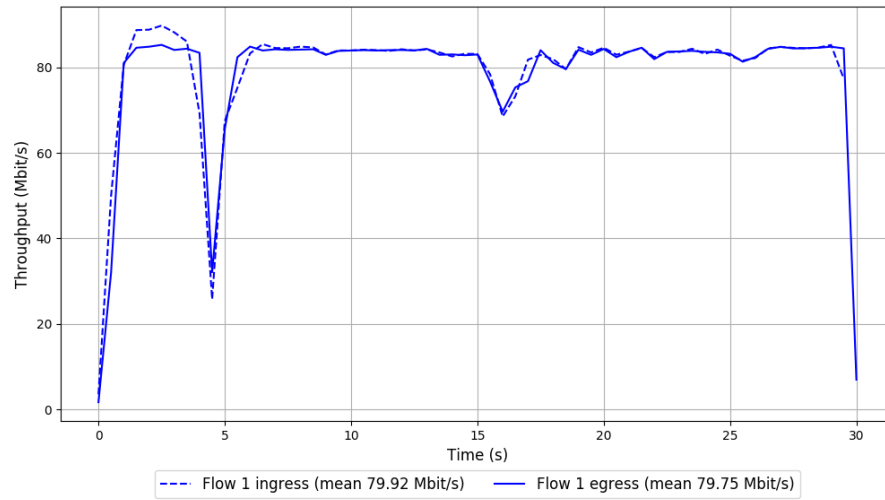
Run 9: Report of TCP Cubic — Data Link

```
Run 10: Statistics of TCP Cubic

Start at: Sun, 16 Jul 2017 21:49:59 +0000
End at: Sun, 16 Jul 2017 21:50:29 +0000
Local clock offset: 0.364 ms
Remote clock offset: -6.141 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:06 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.42 Mbit/s
95th percentile per-packet one-way delay: 97.968 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 51.42 Mbit/s
95th percentile per-packet one-way delay: 97.968 ms
Loss rate: 0.64%
```
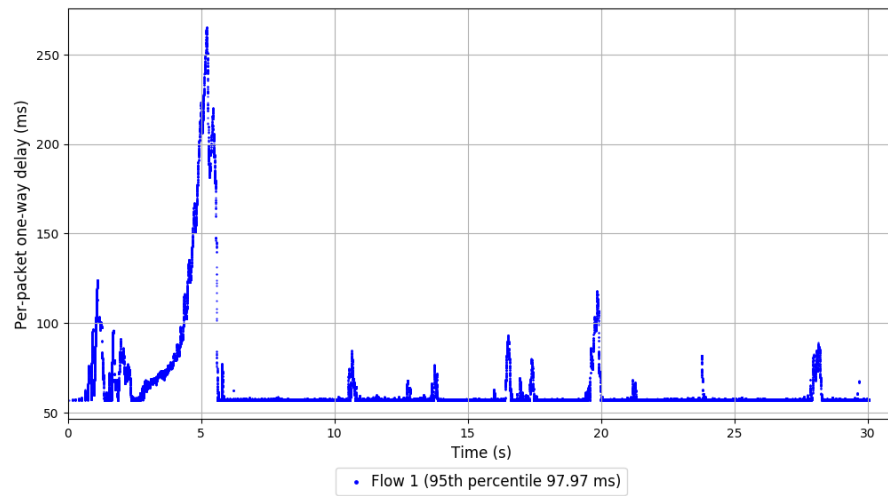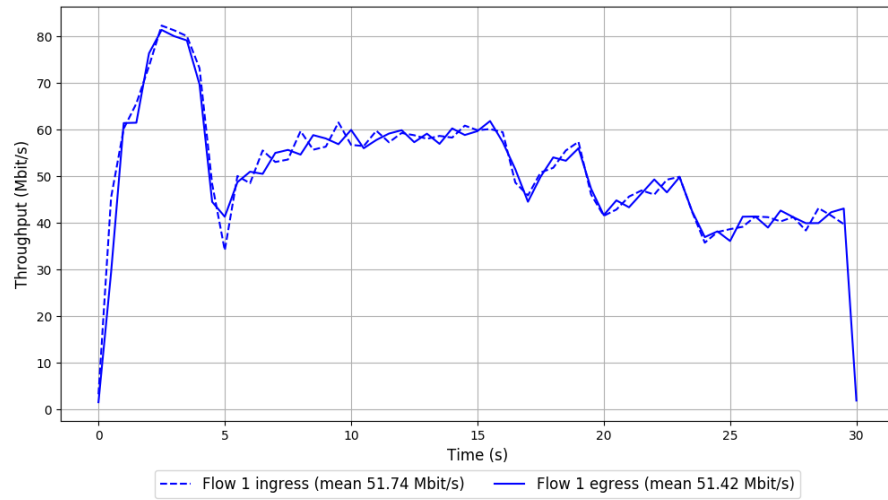
Run 10: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 51.74 Mbit/s) — Flow 1 egress (mean 51.42 Mbit/s)

Flow 1 (95th percentile 97.97 ms)

83

```
Run 1: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 19:08:11 +0000
End at: Sun, 16 Jul 2017 19:08:41 +0000
Local clock offset: 0.346 ms
Remote clock offset: 0.933 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:08 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.25 Mbit/s
95th percentile per-packet one-way delay: 57.421 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 10.25 Mbit/s
95th percentile per-packet one-way delay: 57.421 ms
Loss rate: 0.05%
```
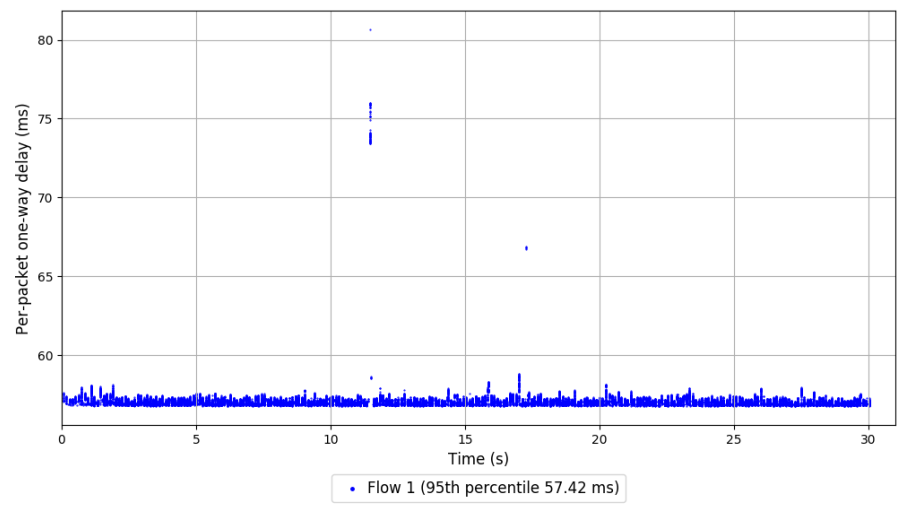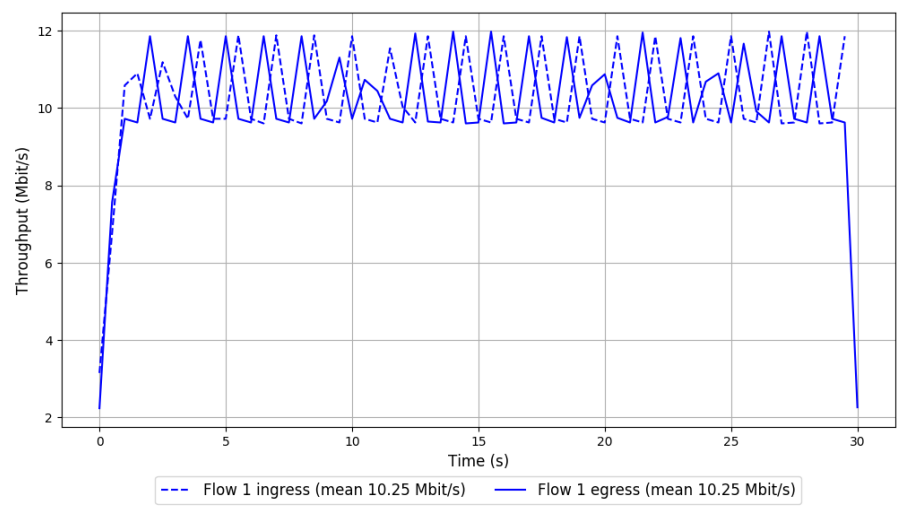
Run 1: Report of KohoCC — Data Link

```
Run 2: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 19:25:28 +0000
End at: Sun, 16 Jul 2017 19:25:58 +0000
Local clock offset: 0.442 ms
Remote clock offset: 1.209 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:08 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.22 Mbit/s
95th percentile per-packet one-way delay: 57.437 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.22 Mbit/s
95th percentile per-packet one-way delay: 57.437 ms
Loss rate: 0.00%
```
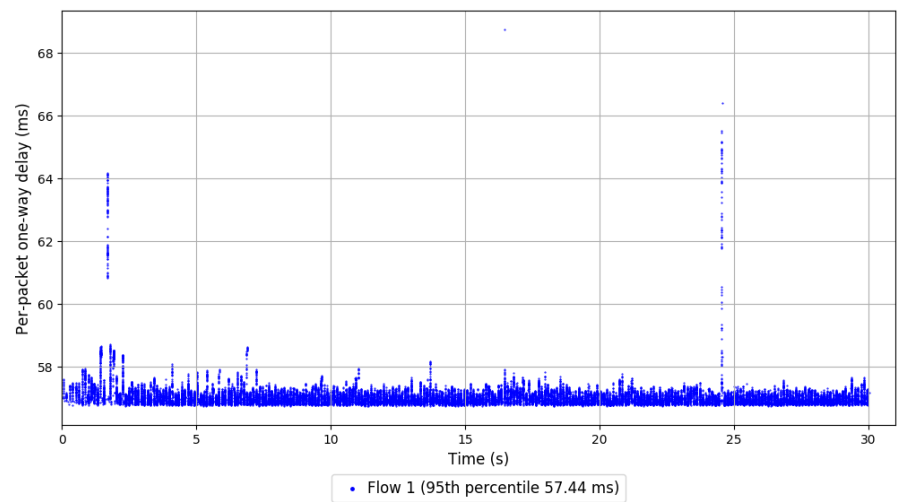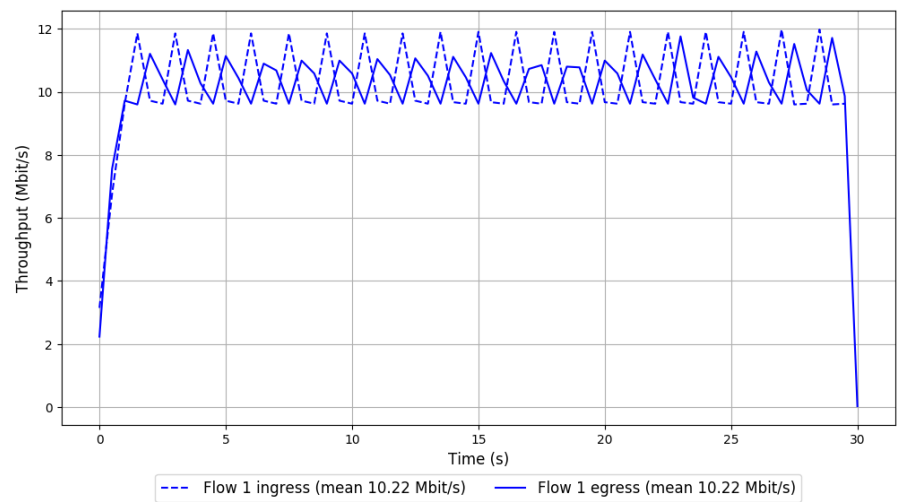
Run 2: Report of KohoCC — Data Link

Flow 1 ingress (mean 10.22 Mbit/s) --- Flow 1 egress (mean 10.22 Mbit/s)

Flow 1 (95th percentile 57.44 ms)

```
Run 3: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 19:42:46 +0000
End at: Sun, 16 Jul 2017 19:43:16 +0000
Local clock offset: 0.439 ms
Remote clock offset: 1.043 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:10 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.22 Mbit/s
95th percentile per-packet one-way delay: 57.439 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.22 Mbit/s
95th percentile per-packet one-way delay: 57.439 ms
Loss rate: 0.00%
```
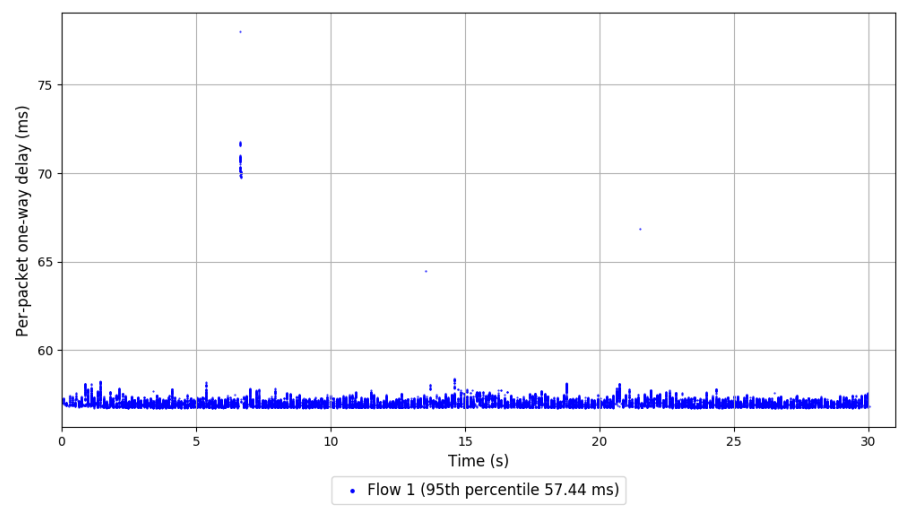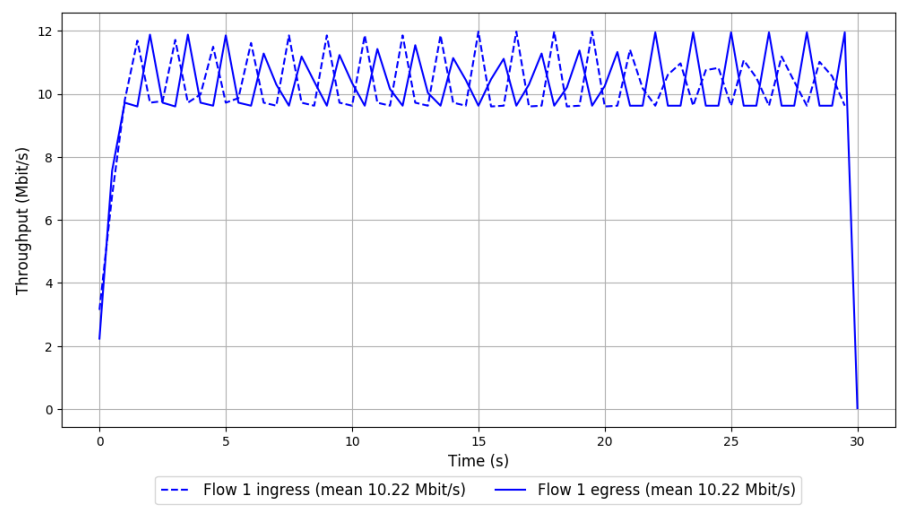
Run 3: Report of KohoCC — Data Link

Flow 1 ingress (mean 10.22 Mbit/s)   Flow 1 egress (mean 10.22 Mbit/s)

Flow 1 (95th percentile 57.44 ms)

```
Run 4: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 20:00:09 +0000
End at: Sun, 16 Jul 2017 20:00:39 +0000
Local clock offset: 0.407 ms
Remote clock offset: 0.899 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 59.597 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 59.597 ms
Loss rate: 0.03%
```
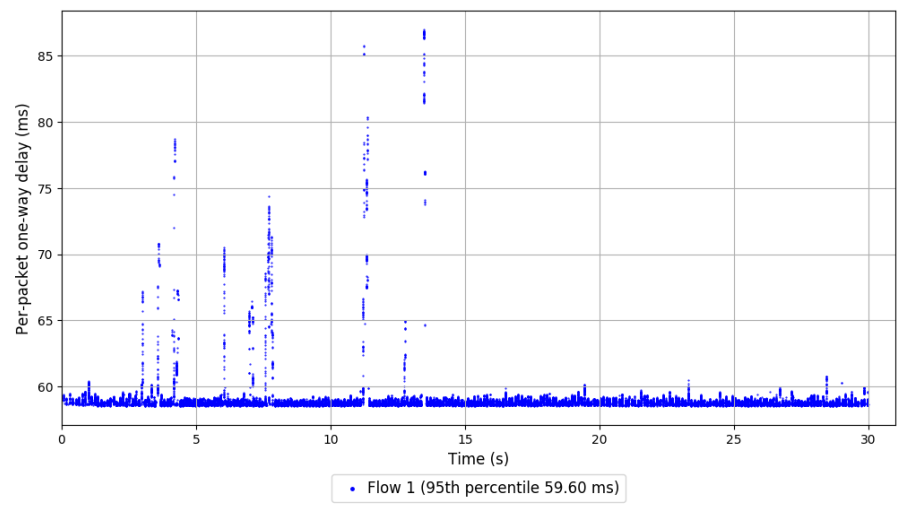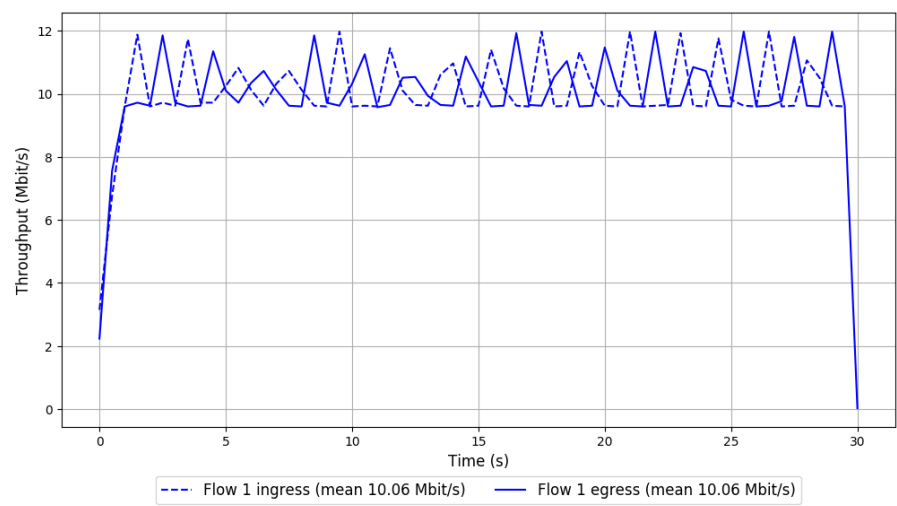
Run 4: Report of KohoCC — Data Link

Flow 1 ingress (mean 10.06 Mbit/s)   Flow 1 egress (mean 10.06 Mbit/s)

• Flow 1 (95th percentile 59.60 ms)
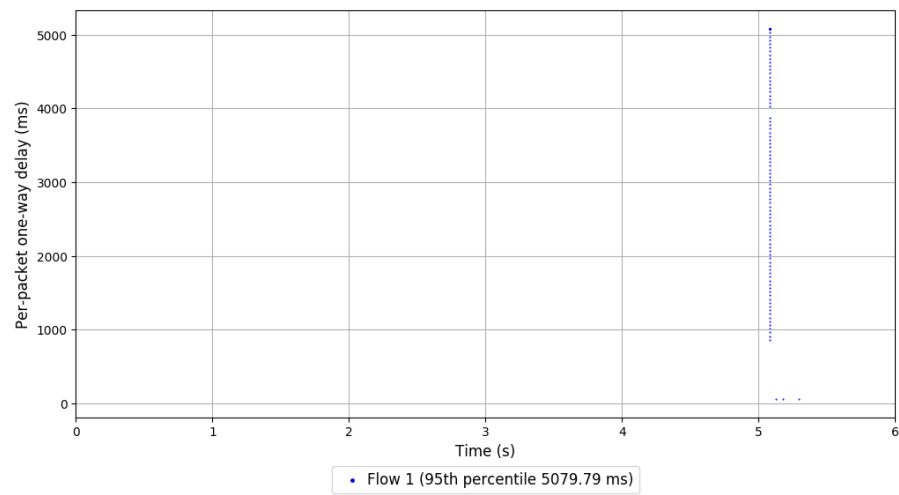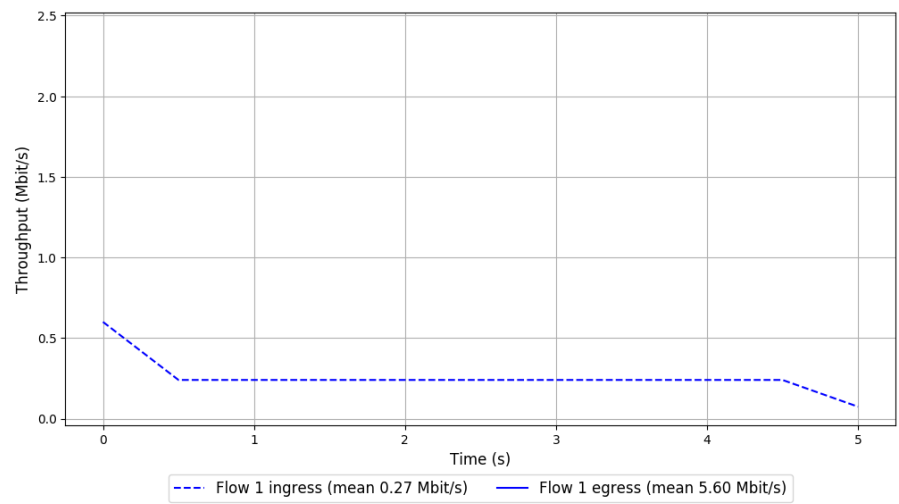
Run 5: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 20:16:03 +0000
End at: Sun, 16 Jul 2017 20:16:33 +0000
Local clock offset: 0.382 ms

Run 5: Report of KohoCC — Data Link

Flow 1 ingress (mean 0.27 Mbit/s)   Flow 1 egress (mean 5.60 Mbit/s)
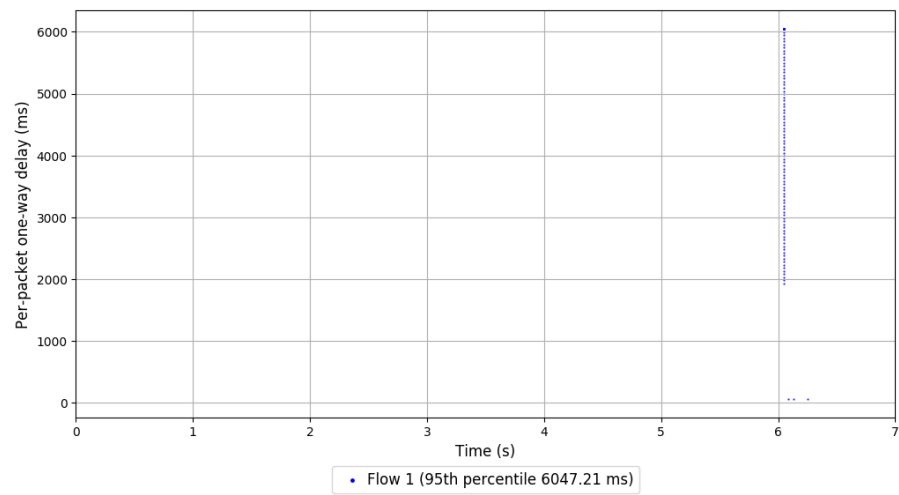

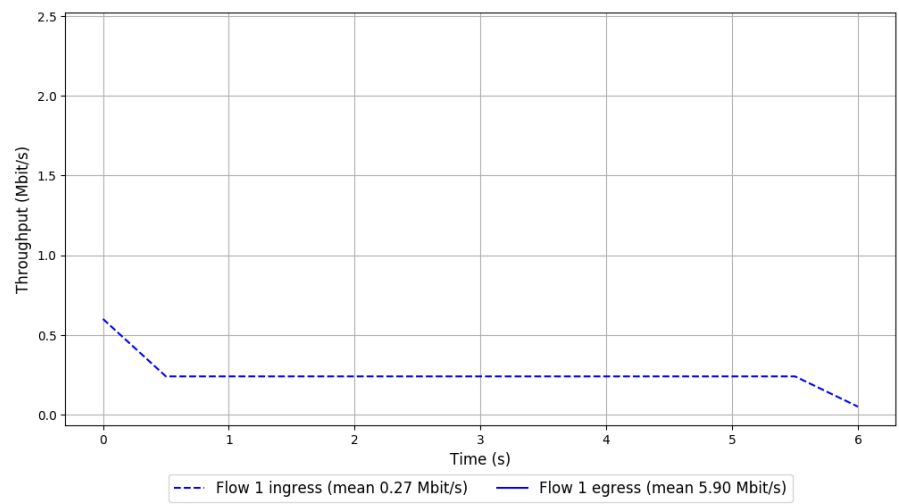Flow 1 (95th percentile 5079.79 ms)

Run 6: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 20:29:59 +0000
End at: Sun, 16 Jul 2017 20:30:29 +0000
Local clock offset: 0.335 ms

Run 6: Report of KohoCC — Data Link

```
Run 7: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 20:47:04 +0000
End at: Sun, 16 Jul 2017 20:47:34 +0000
Local clock offset: 0.414 ms
Remote clock offset: -0.075 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:13 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.14 Mbit/s
95th percentile per-packet one-way delay: 58.871 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.14 Mbit/s
95th percentile per-packet one-way delay: 58.871 ms
Loss rate: 0.00%
```
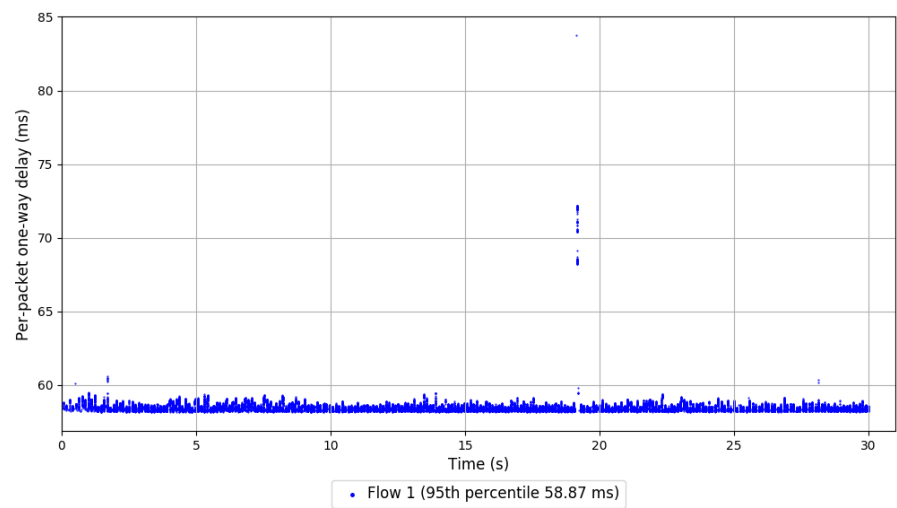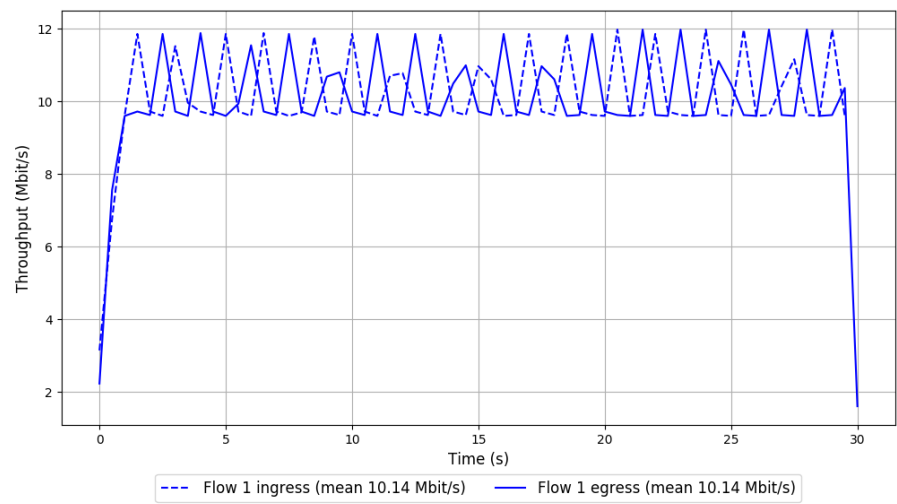
Run 7: Report of KohoCC — Data Link

Flow 1 ingress (mean 10.14 Mbit/s) --- Flow 1 egress (mean 10.14 Mbit/s)

Flow 1 (95th percentile 58.87 ms)

97

```
Run 8: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 21:04:48 +0000
End at: Sun, 16 Jul 2017 21:05:18 +0000
Local clock offset: 0.259 ms
Remote clock offset: -1.68 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:14 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 58.718 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 58.718 ms
Loss rate: 0.01%
```
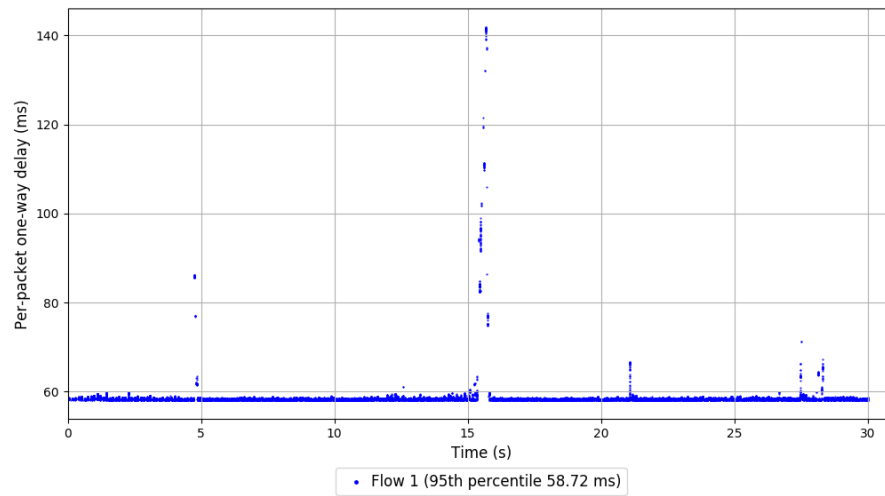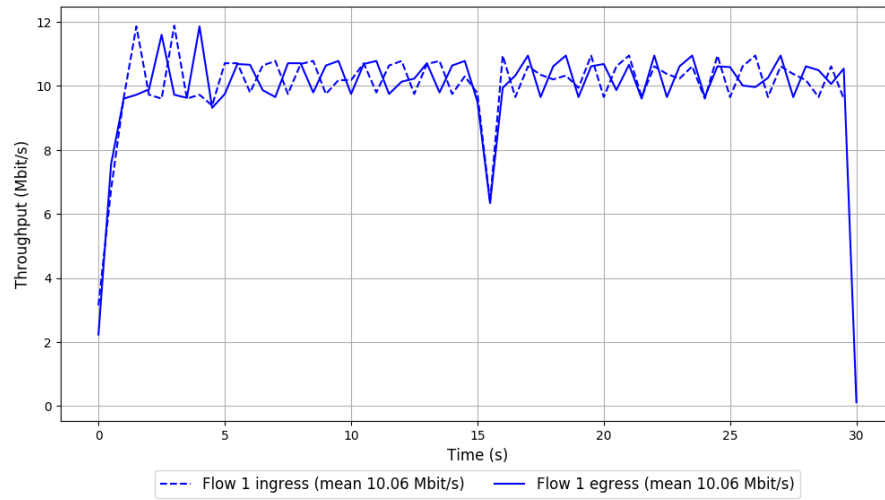
Run 8: Report of KohoCC — Data Link

Flow 1 ingress (mean 10.06 Mbit/s) ----- Flow 1 egress (mean 10.06 Mbit/s)

Flow 1 (95th percentile 58.72 ms)

```
Run 9: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 21:22:10 +0000
End at: Sun, 16 Jul 2017 21:22:40 +0000
Local clock offset: 0.287 ms
Remote clock offset: -2.605 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:15 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.25 Mbit/s
95th percentile per-packet one-way delay: 57.654 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.25 Mbit/s
95th percentile per-packet one-way delay: 57.654 ms
Loss rate: 0.00%
```
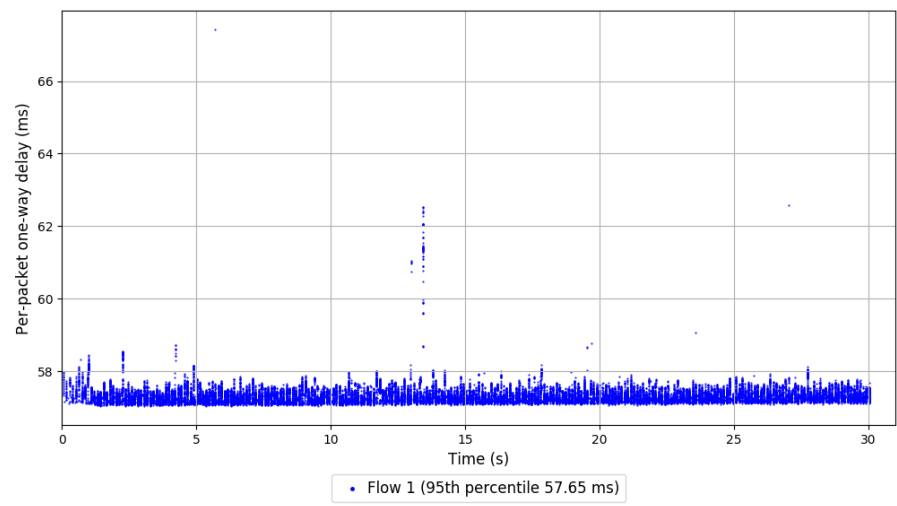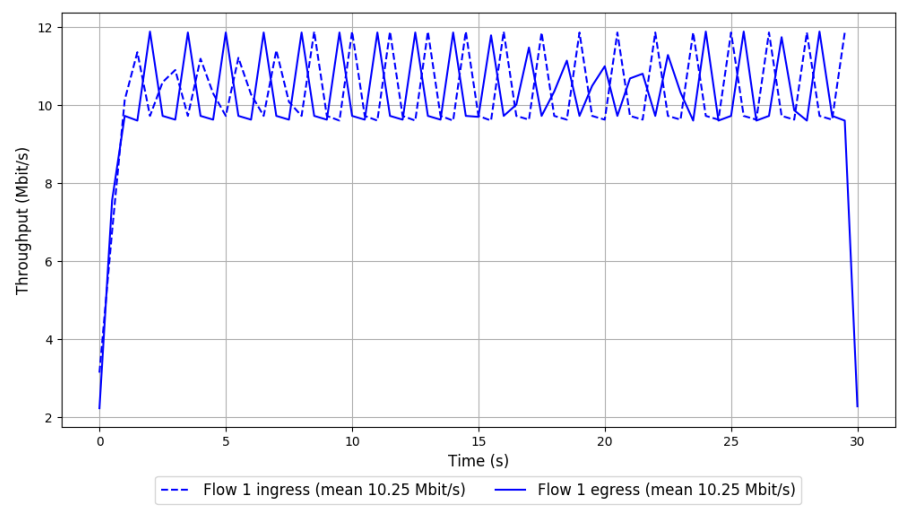
Run 9: Report of KohoCC — Data Link

Flow 1 ingress (mean 10.25 Mbit/s)   Flow 1 egress (mean 10.25 Mbit/s)

Flow 1 (95th percentile 57.65 ms)

```
Run 10: Statistics of KohoCC

Start at: Sun, 16 Jul 2017 21:39:39 +0000
End at: Sun, 16 Jul 2017 21:40:09 +0000
Local clock offset: 0.158 ms
Remote clock offset: -4.942 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.21 Mbit/s
95th percentile per-packet one-way delay: 57.431 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.21 Mbit/s
95th percentile per-packet one-way delay: 57.431 ms
Loss rate: 0.00%
```
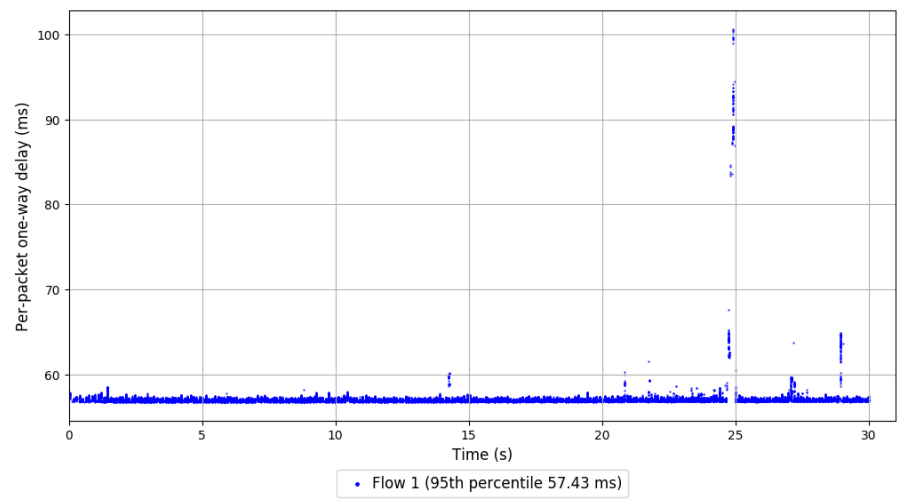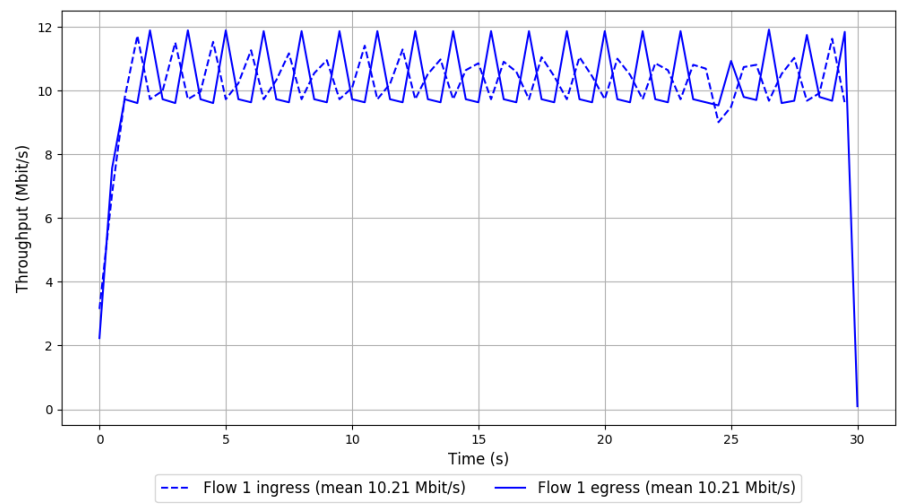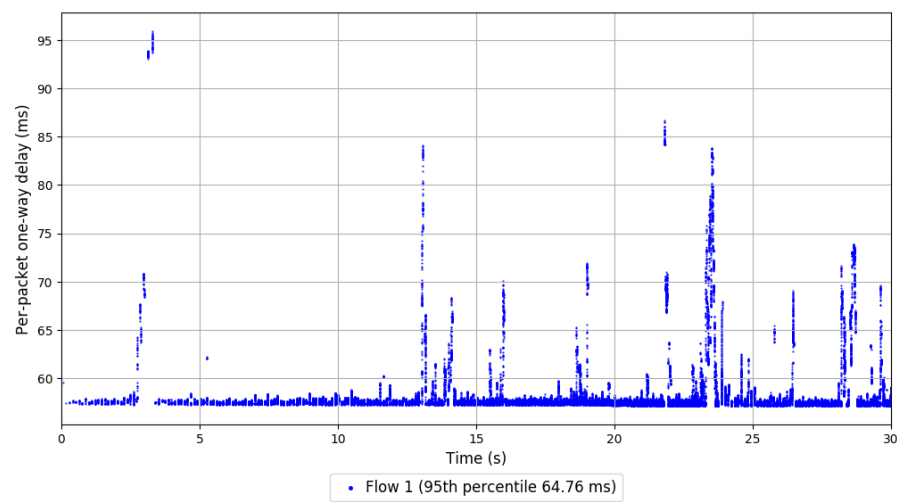
Run 10: Report of KohoCC — Data Link

Flow 1 ingress (mean 10.21 Mbit/s) --- Flow 1 egress (mean 10.21 Mbit/s)

• Flow 1 (95th percentile 57.43 ms)

```
Run 1: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 19:15:01 +0000
End at: Sun, 16 Jul 2017 19:15:31 +0000
Local clock offset: 0.41 ms
Remote clock offset: 1.043 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:19 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.74 Mbit/s
95th percentile per-packet one-way delay: 64.762 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 18.74 Mbit/s
95th percentile per-packet one-way delay: 64.762 ms
Loss rate: 0.04%
```
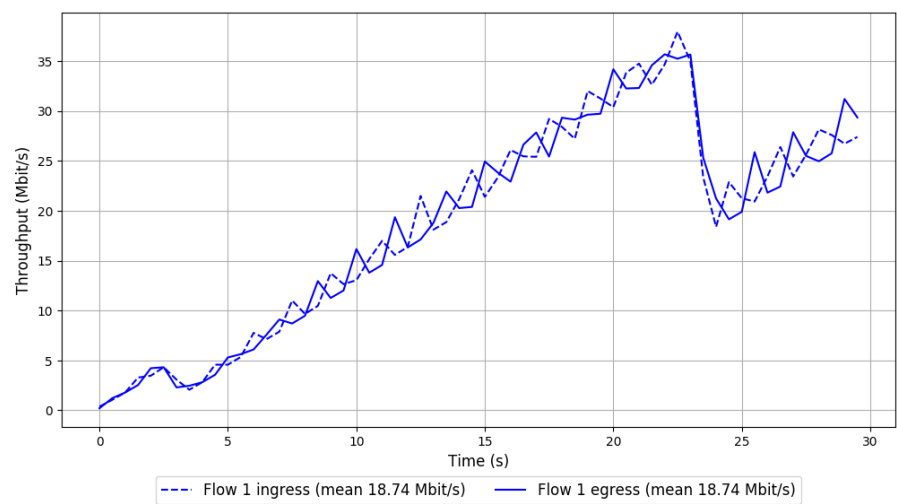
Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 18.74 Mbit/s) — — —   Flow 1 egress (mean 18.74 Mbit/s) ———

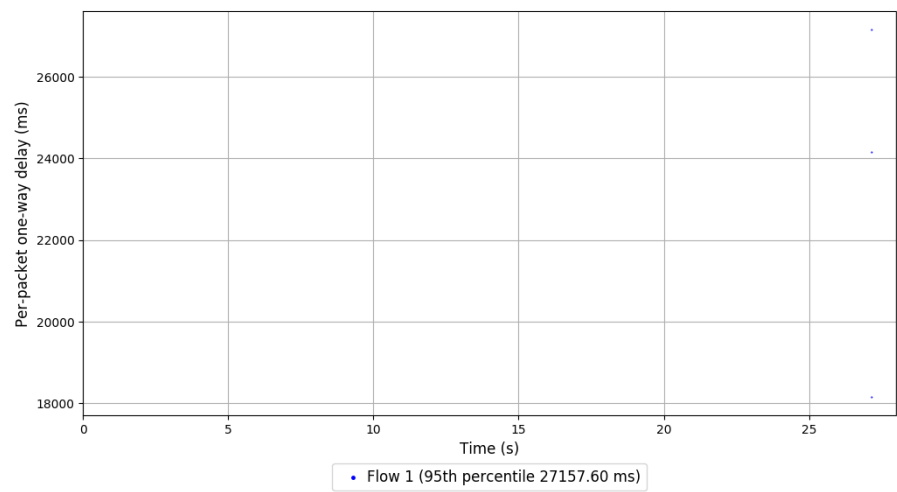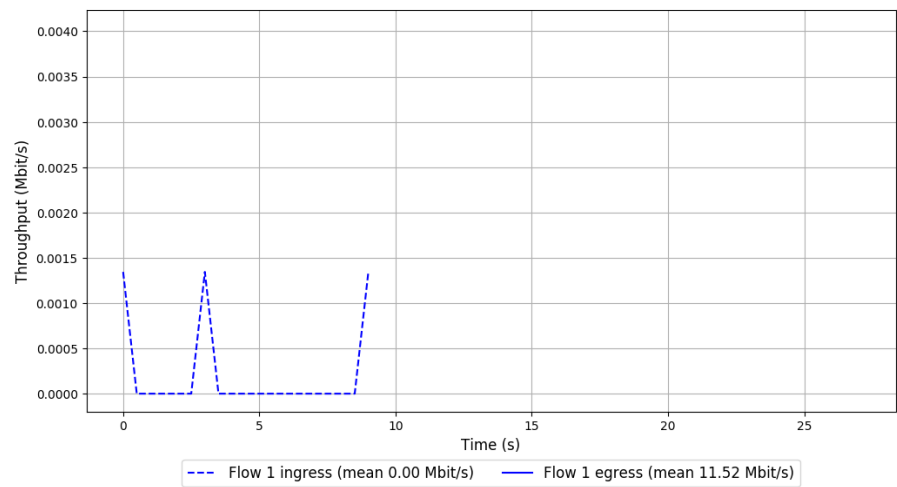• Flow 1 (95th percentile 64.76 ms)

```
Run 2: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 19:32:16 +0000
End at: Sun, 16 Jul 2017 19:32:46 +0000
Local clock offset: 0.436 ms
Remote clock offset: 1.218 ms
```
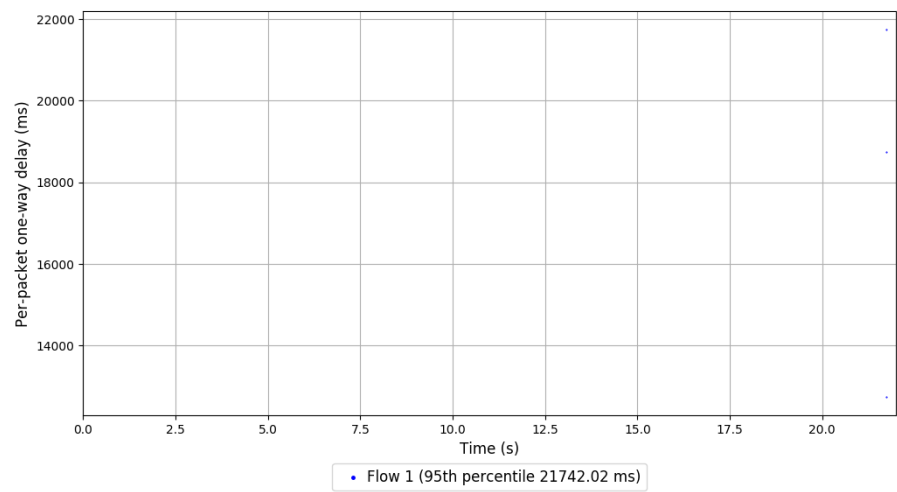
Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 0.00 Mbit/s) — Flow 1 egress (mean 11.52 Mbit/s)

• Flow 1 (95th percentile 27157.60 ms)

```
Run 3: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 19:49:37 +0000
End at: Sun, 16 Jul 2017 19:50:07 +0000
Local clock offset: 0.458 ms
Remote clock offset: 0.916 ms
```
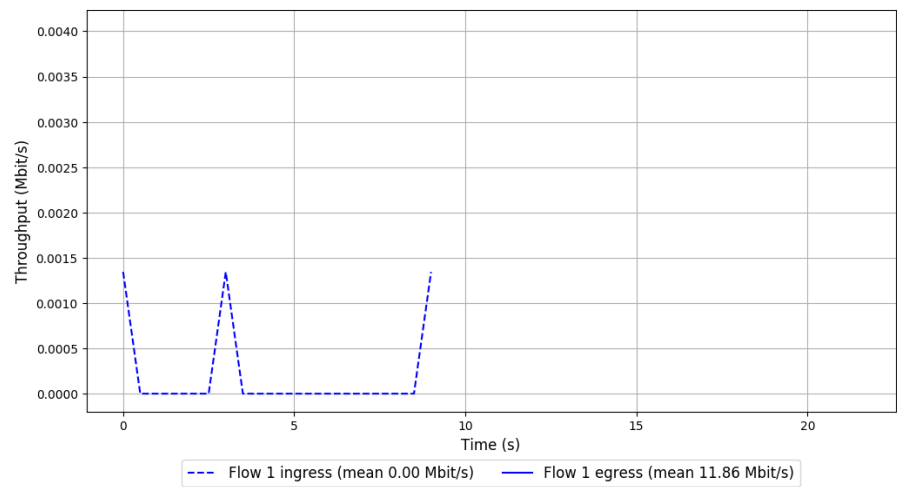
Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 20:06:58 +0000
End at: Sun, 16 Jul 2017 20:07:28 +0000
Local clock offset: 0.407 ms
Remote clock offset: 0.823 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:23 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.86 Mbit/s
95th percentile per-packet one-way delay: 57.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.86 Mbit/s
95th percentile per-packet one-way delay: 57.989 ms
Loss rate: 0.00%
```
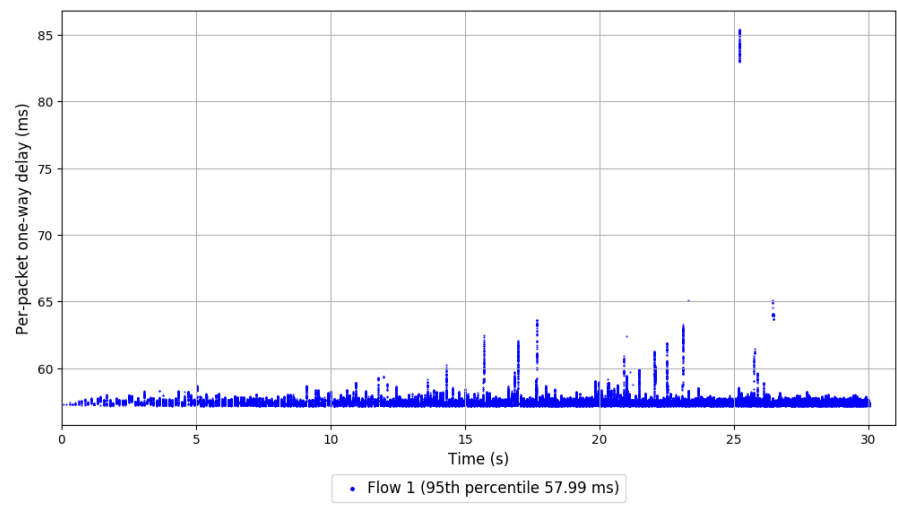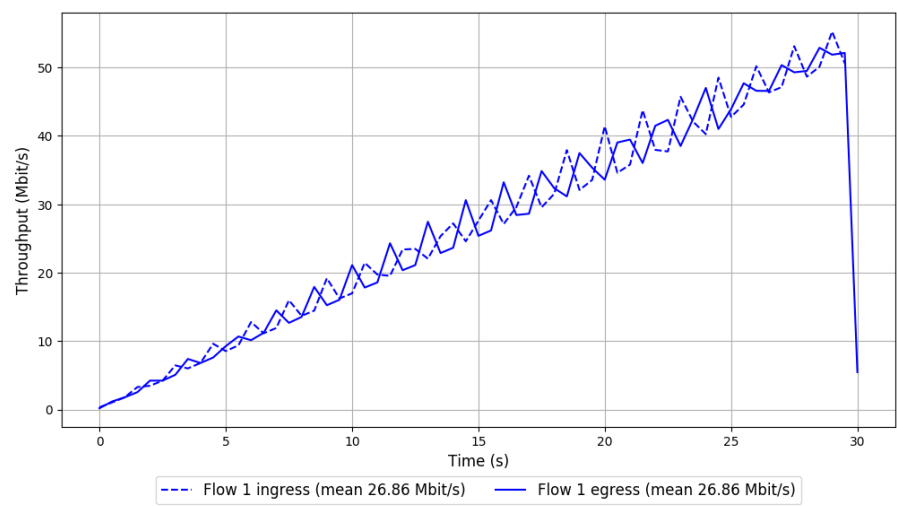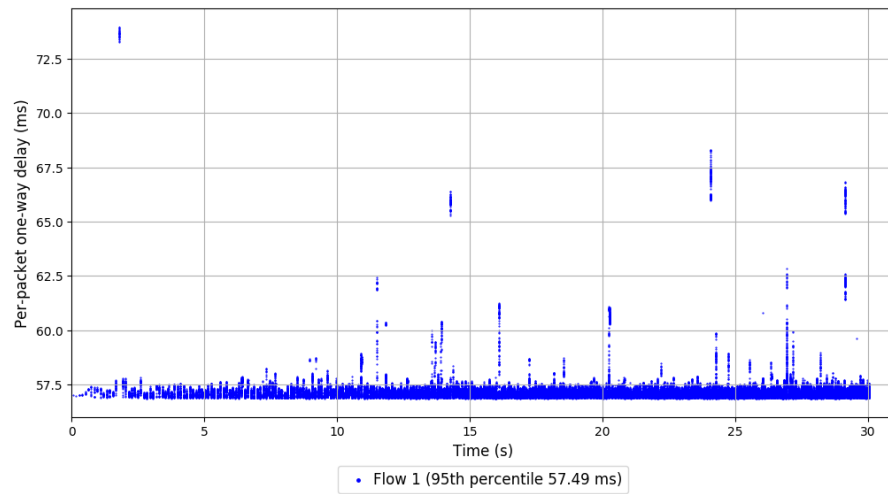
Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 26.86 Mbit/s)   Flow 1 egress (mean 26.86 Mbit/s)

Flow 1 (95th percentile 57.99 ms)

```
Run 5: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 20:21:21 +0000
End at: Sun, 16 Jul 2017 20:21:51 +0000
Local clock offset: 0.339 ms

# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:24 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.03 Mbit/s
95th percentile per-packet one-way delay: 57.490 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.03 Mbit/s
95th percentile per-packet one-way delay: 57.490 ms
Loss rate: 0.00%
```
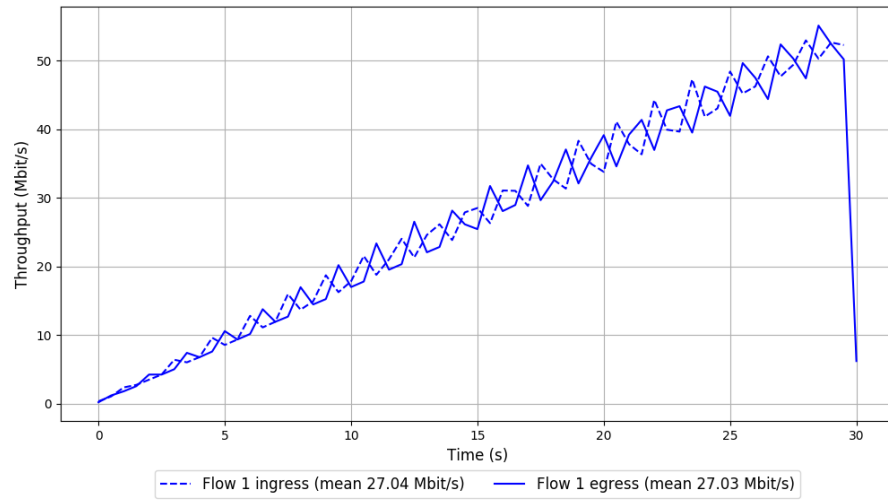
Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 27.04 Mbit/s)   —— Flow 1 egress (mean 27.03 Mbit/s)

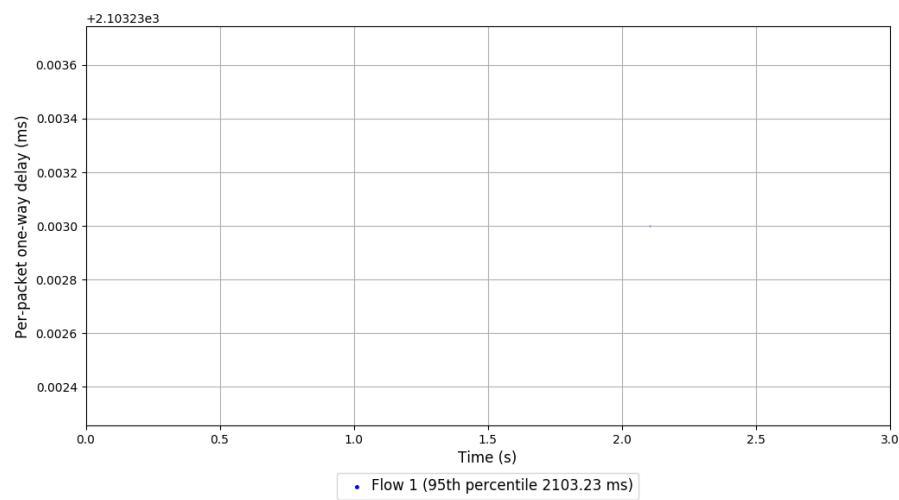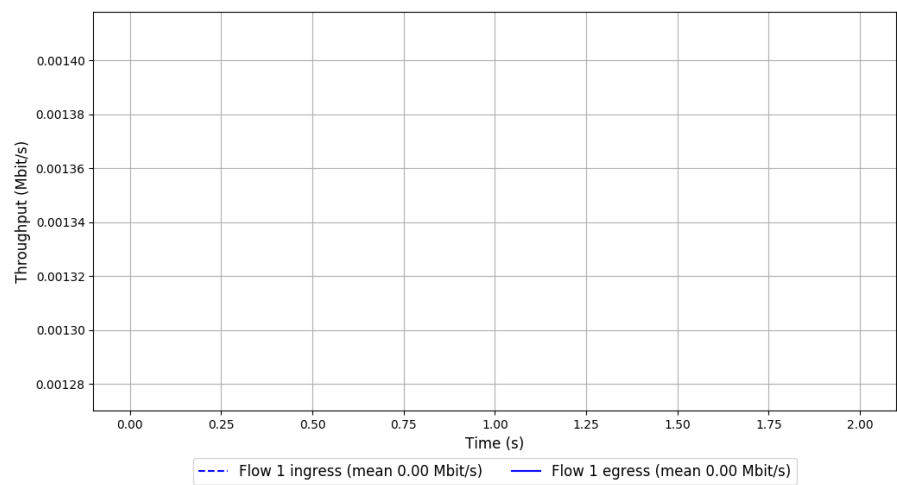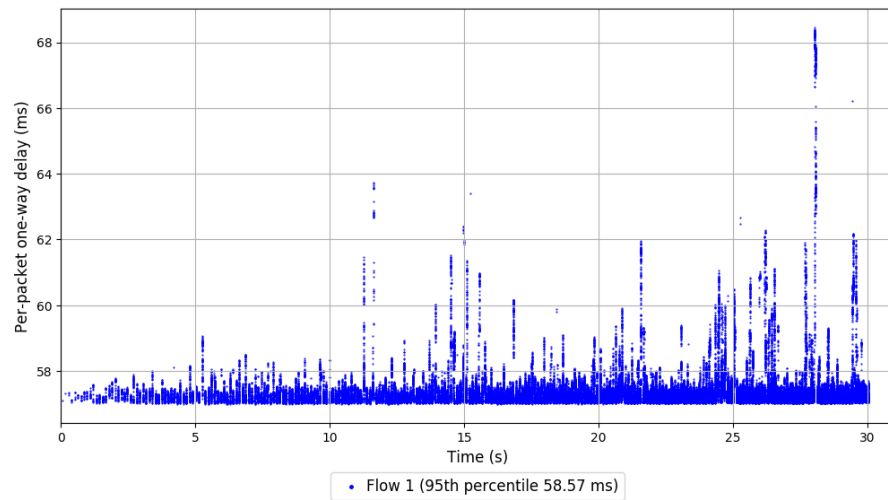• Flow 1 (95th percentile 57.49 ms)

```
Run 6: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 20:36:35 +0000
End at: Sun, 16 Jul 2017 20:37:05 +0000
Local clock offset: 0.406 ms
Remote clock offset: 0.438 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 2103.23 ms)

```
Run 7: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 20:53:55 +0000
End at: Sun, 16 Jul 2017 20:54:25 +0000
Local clock offset: 0.329 ms
Remote clock offset: -0.971 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:28 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.92 Mbit/s
95th percentile per-packet one-way delay: 58.571 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.92 Mbit/s
95th percentile per-packet one-way delay: 58.571 ms
Loss rate: 0.00%
```
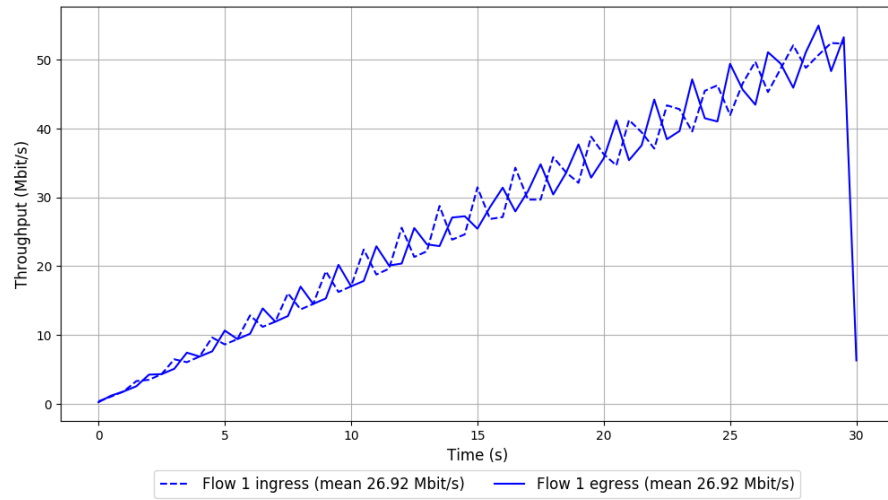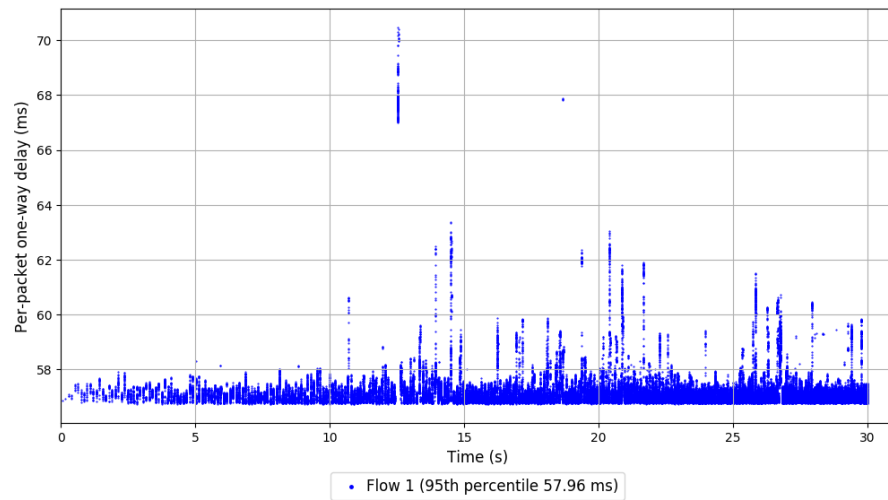
Run 7: Report of LEDBAT — Data Link

```
Run 8: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 21:11:40 +0000
End at: Sun, 16 Jul 2017 21:12:10 +0000
Local clock offset: 0.41 ms
Remote clock offset: -1.757 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:28 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.92 Mbit/s
95th percentile per-packet one-way delay: 57.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.92 Mbit/s
95th percentile per-packet one-way delay: 57.958 ms
Loss rate: 0.00%
```
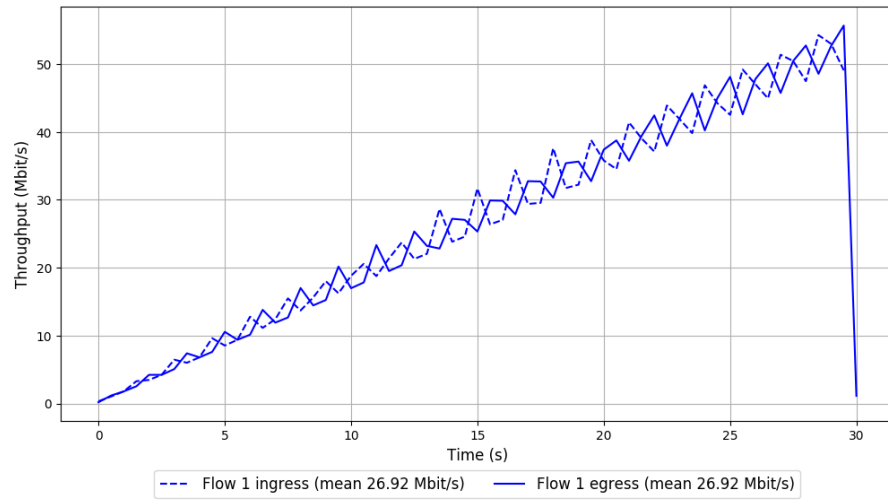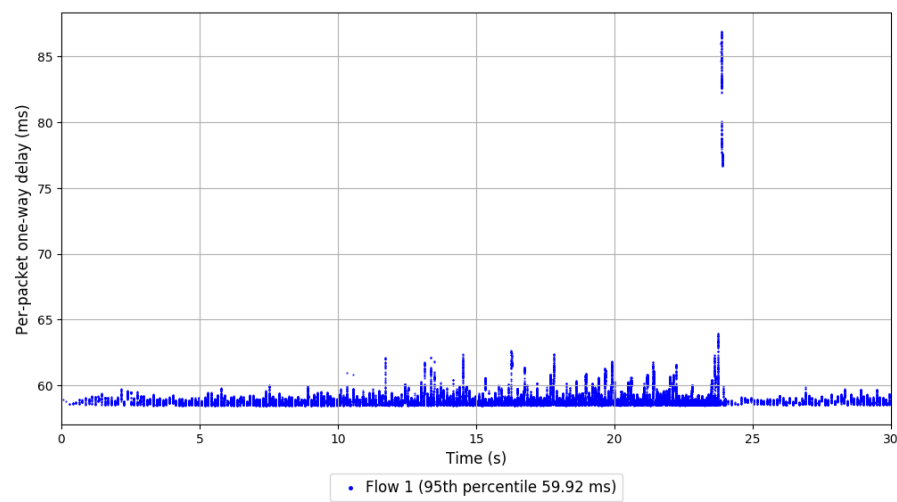
Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 26.92 Mbit/s) --- Flow 1 egress (mean 26.92 Mbit/s)

• Flow 1 (95th percentile 57.96 ms)

```
Run 9: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 21:28:59 +0000
End at: Sun, 16 Jul 2017 21:29:29 +0000
Local clock offset: 0.206 ms
Remote clock offset: -3.274 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:31 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.20 Mbit/s
95th percentile per-packet one-way delay: 59.923 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 18.20 Mbit/s
95th percentile per-packet one-way delay: 59.923 ms
Loss rate: 0.10%
```
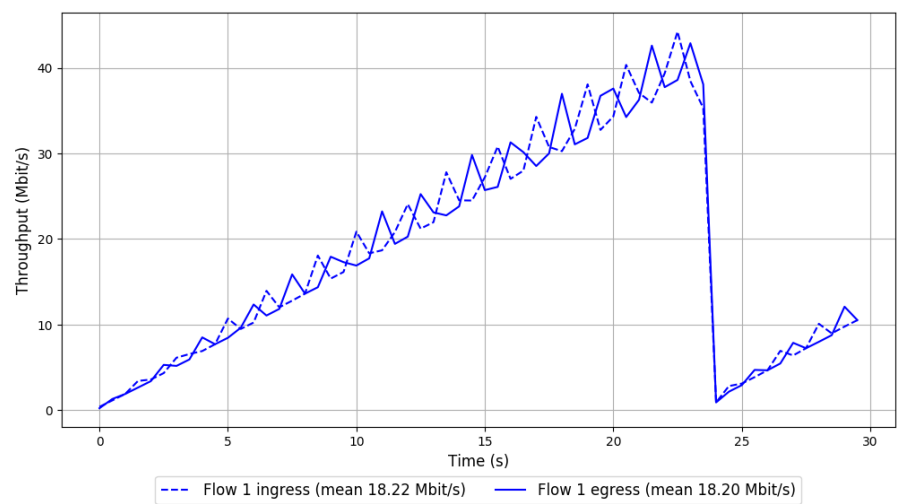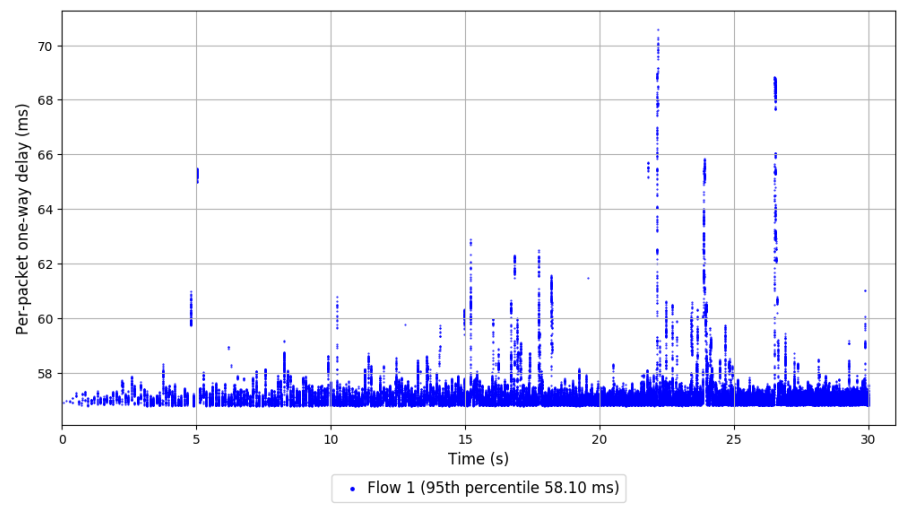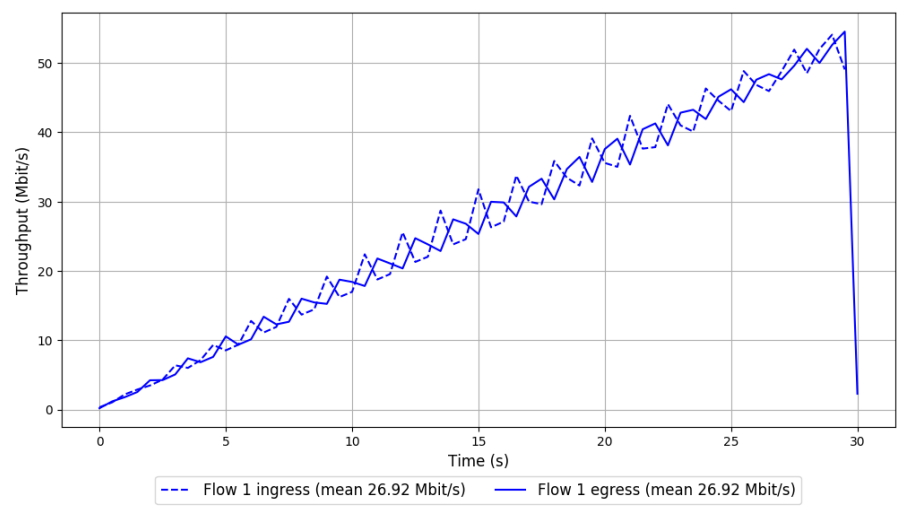
Run 9: Report of LEDBAT — Data Link

Flow 1 ingress (mean 18.22 Mbit/s) --- Flow 1 egress (mean 18.20 Mbit/s)

Flow 1 (95th percentile 59.92 ms)

```
Run 10: Statistics of LEDBAT

Start at: Sun, 16 Jul 2017 21:46:26 +0000
End at: Sun, 16 Jul 2017 21:46:56 +0000
Local clock offset: 0.283 ms
Remote clock offset: -5.682 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:33 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.92 Mbit/s
95th percentile per-packet one-way delay: 58.101 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.92 Mbit/s
95th percentile per-packet one-way delay: 58.101 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

```
Run 1: Statistics of PCC

Start at: Sun, 16 Jul 2017 19:20:57 +0000
End at: Sun, 16 Jul 2017 19:21:27 +0000
Local clock offset: 0.365 ms
Remote clock offset: 1.108 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:42 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.01 Mbit/s
95th percentile per-packet one-way delay: 275.681 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 75.01 Mbit/s
95th percentile per-packet one-way delay: 275.681 ms
Loss rate: 0.59%
```
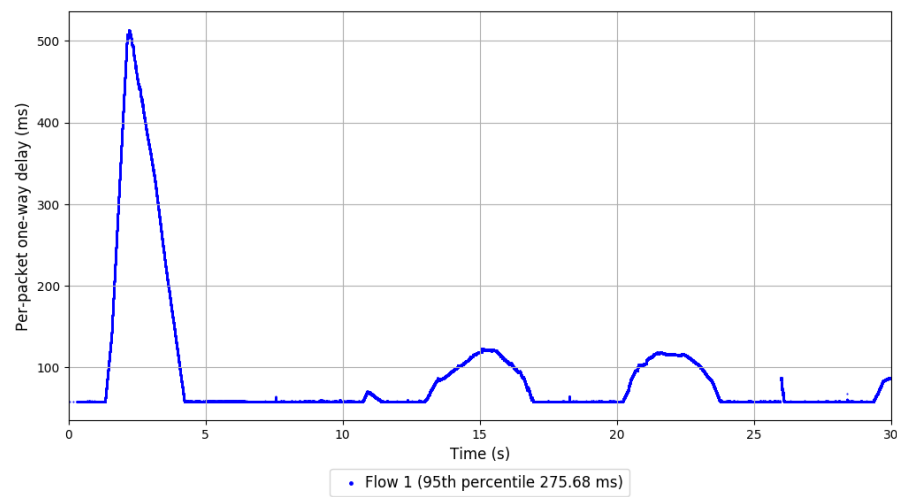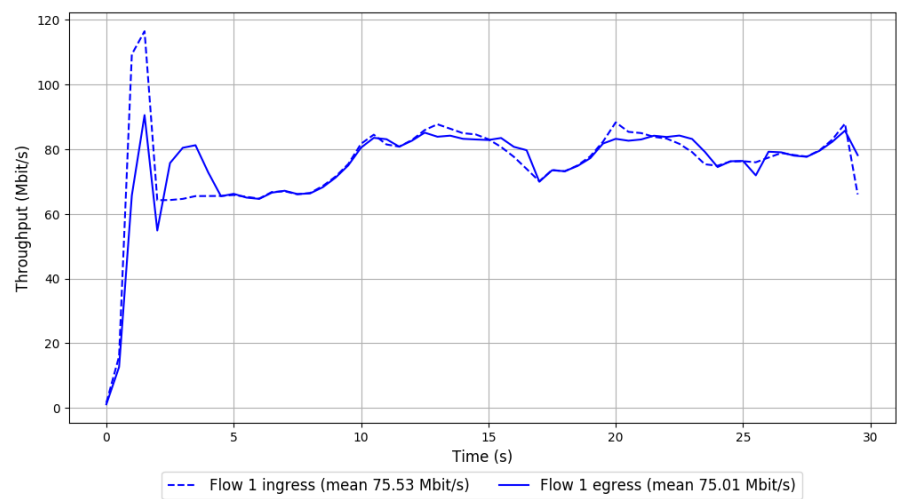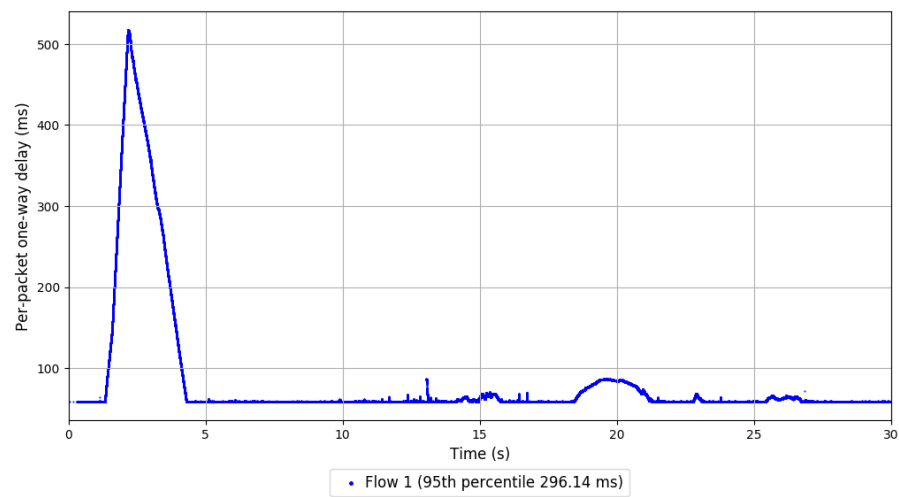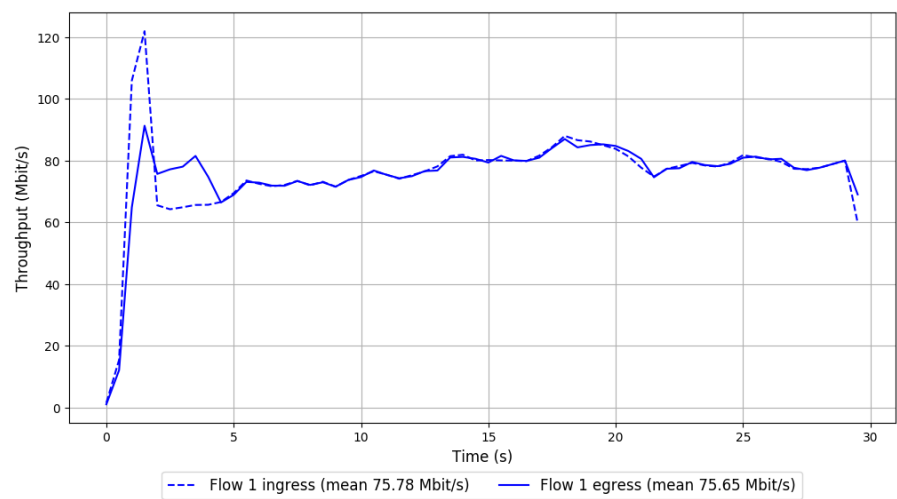
Run 1: Report of PCC — Data Link

Flow 1 ingress (mean 75.53 Mbit/s) —— Flow 1 egress (mean 75.01 Mbit/s)

• Flow 1 (95th percentile 275.68 ms)

```
Run 2: Statistics of PCC

Start at: Sun, 16 Jul 2017 19:38:10 +0000
End at: Sun, 16 Jul 2017 19:38:40 +0000
Local clock offset: 0.438 ms
Remote clock offset: 1.463 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:44 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.65 Mbit/s
95th percentile per-packet one-way delay: 296.143 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 75.65 Mbit/s
95th percentile per-packet one-way delay: 296.143 ms
Loss rate: 0.17%
```
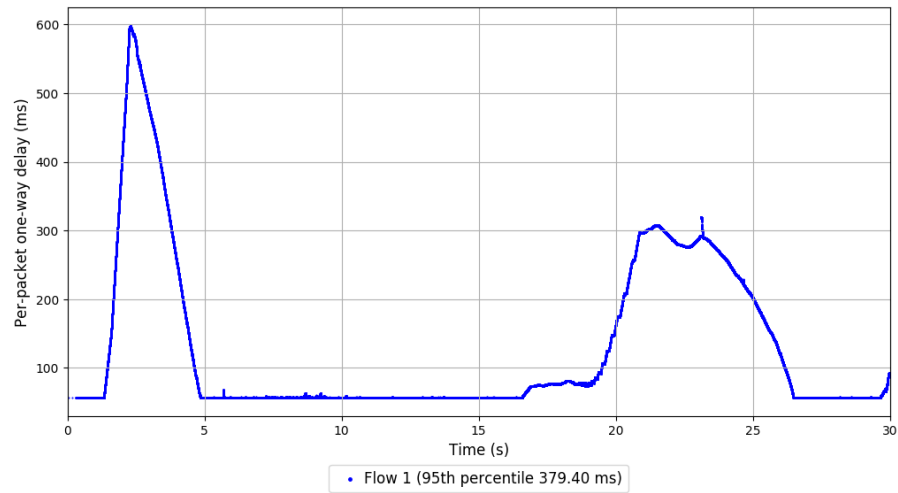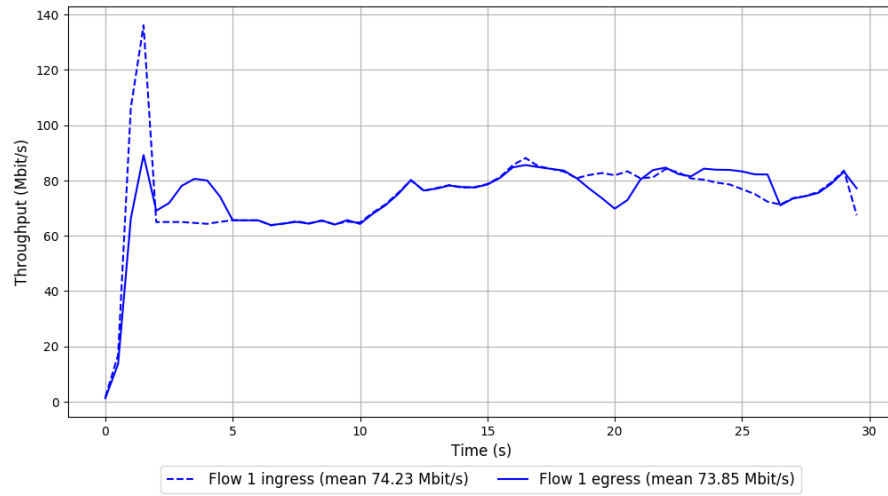
Run 2: Report of PCC — Data Link

Flow 1 ingress (mean 75.78 Mbit/s)　　Flow 1 egress (mean 75.65 Mbit/s)

Flow 1 (95th percentile 296.14 ms)

```
Run 3: Statistics of PCC

Start at: Sun, 16 Jul 2017 19:55:30 +0000
End at: Sun, 16 Jul 2017 19:56:00 +0000
Local clock offset: 0.462 ms
Remote clock offset: 0.647 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:50 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.85 Mbit/s
95th percentile per-packet one-way delay: 379.397 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 73.85 Mbit/s
95th percentile per-packet one-way delay: 379.397 ms
Loss rate: 0.44%
```
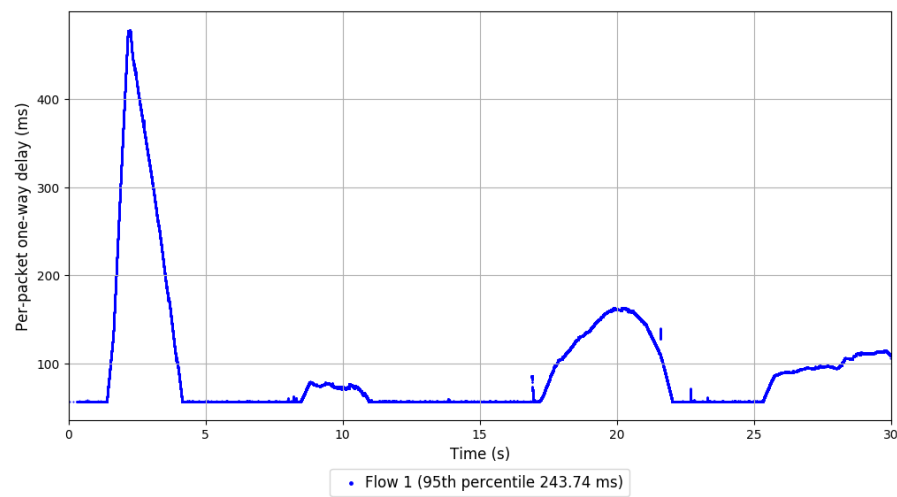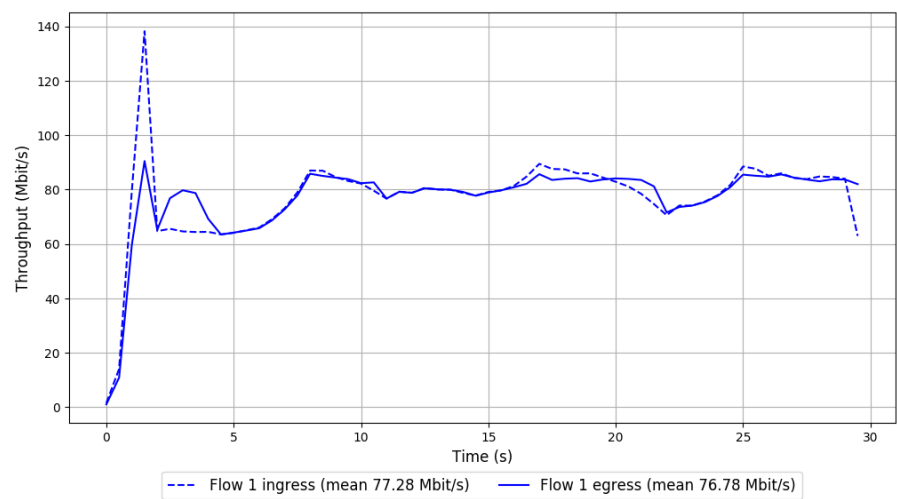
Run 3: Report of PCC — Data Link

```
Run 4: Statistics of PCC

Start at: Sun, 16 Jul 2017 20:12:06 +0000
End at: Sun, 16 Jul 2017 20:12:36 +0000
Local clock offset: 0.429 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:10:54 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.78 Mbit/s
95th percentile per-packet one-way delay: 243.739 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 76.78 Mbit/s
95th percentile per-packet one-way delay: 243.739 ms
Loss rate: 0.48%
```

Run 4: Report of PCC — Data Link

```
Run 5: Statistics of PCC

Start at: Sun, 16 Jul 2017 20:26:09 +0000
End at: Sun, 16 Jul 2017 20:26:39 +0000
Local clock offset: 0.368 ms

# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:02 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.14 Mbit/s
95th percentile per-packet one-way delay: 373.604 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 77.14 Mbit/s
95th percentile per-packet one-way delay: 373.604 ms
Loss rate: 0.02%
```
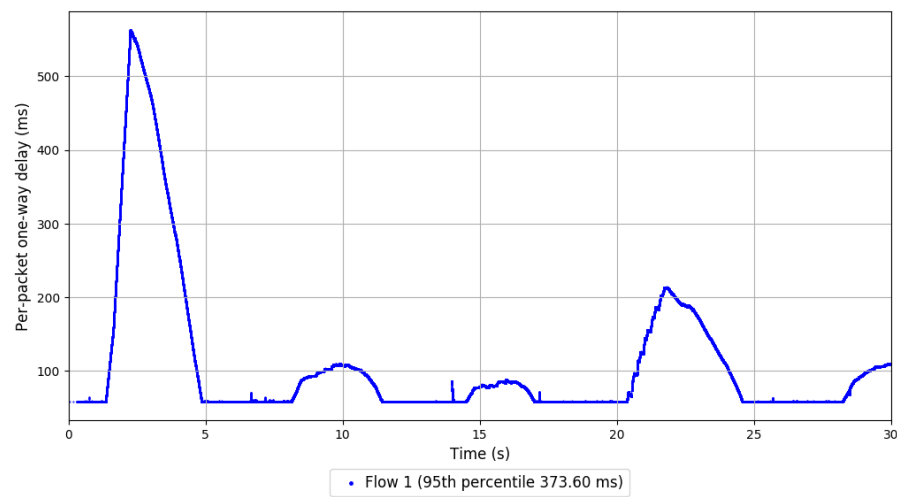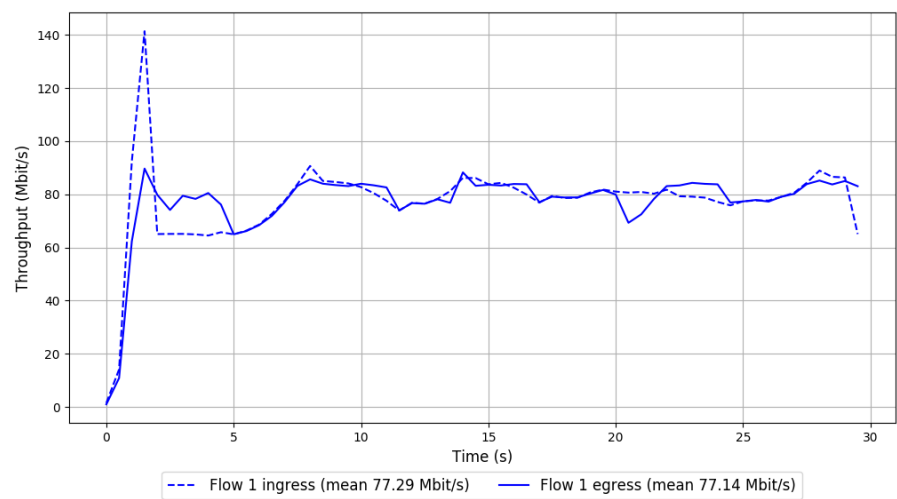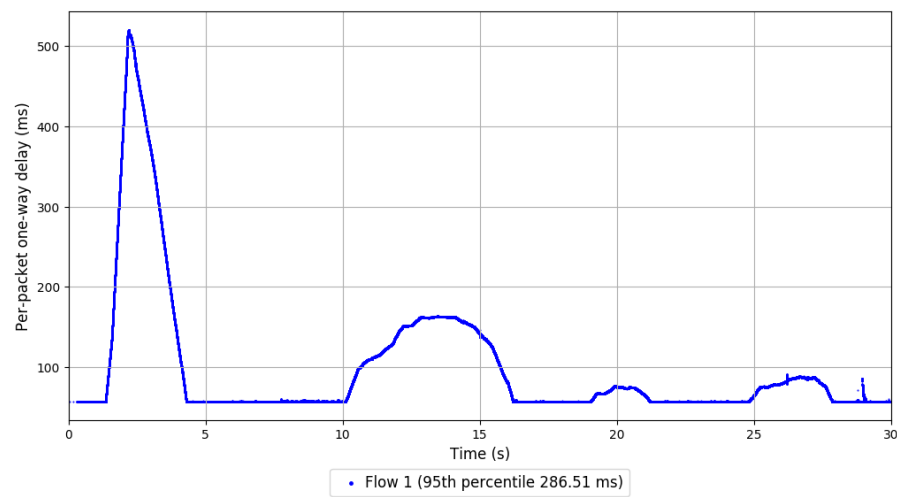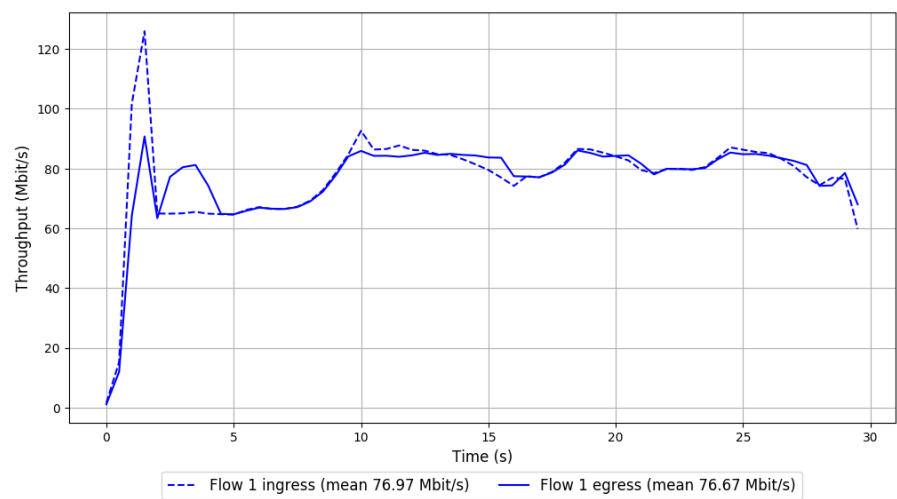
Run 5: Report of PCC — Data Link

Flow 1 ingress (mean 77.29 Mbit/s)   Flow 1 egress (mean 77.14 Mbit/s)

Flow 1 (95th percentile 373.60 ms)

```
Run 6: Statistics of PCC

Start at: Sun, 16 Jul 2017 20:42:24 +0000
End at: Sun, 16 Jul 2017 20:42:54 +0000
Local clock offset: 0.441 ms
Remote clock offset: 0.139 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:05 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.67 Mbit/s
95th percentile per-packet one-way delay: 286.506 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 76.67 Mbit/s
95th percentile per-packet one-way delay: 286.506 ms
Loss rate: 0.41%
```
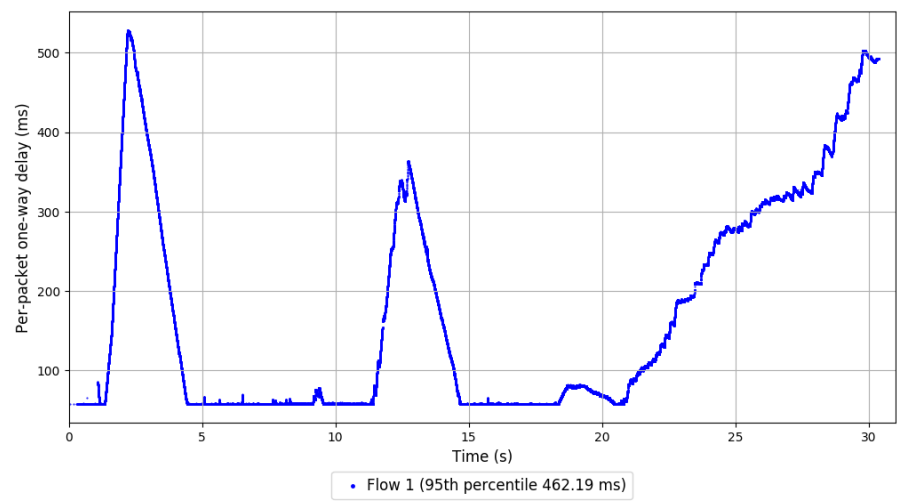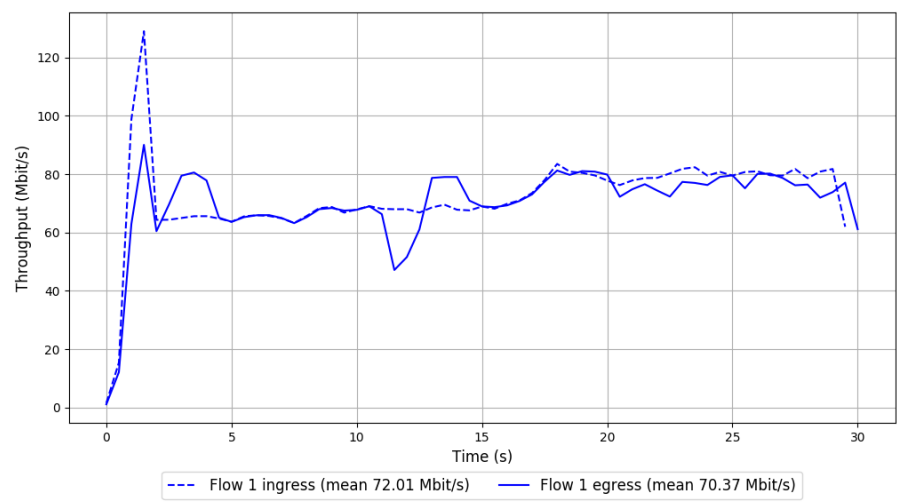
Run 6: Report of PCC — Data Link

Flow 1 ingress (mean 76.97 Mbit/s)   Flow 1 egress (mean 76.67 Mbit/s)

Flow 1 (95th percentile 286.51 ms)

```
Run 7: Statistics of PCC

Start at: Sun, 16 Jul 2017 20:59:52 +0000
End at: Sun, 16 Jul 2017 21:00:22 +0000
Local clock offset: 0.343 ms
Remote clock offset: -0.868 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:12 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.37 Mbit/s
95th percentile per-packet one-way delay: 462.186 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 70.37 Mbit/s
95th percentile per-packet one-way delay: 462.186 ms
Loss rate: 0.89%
```
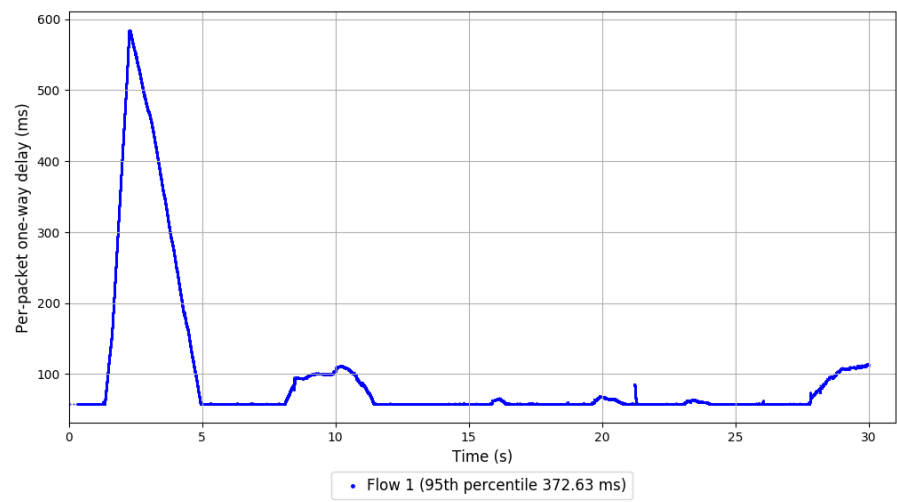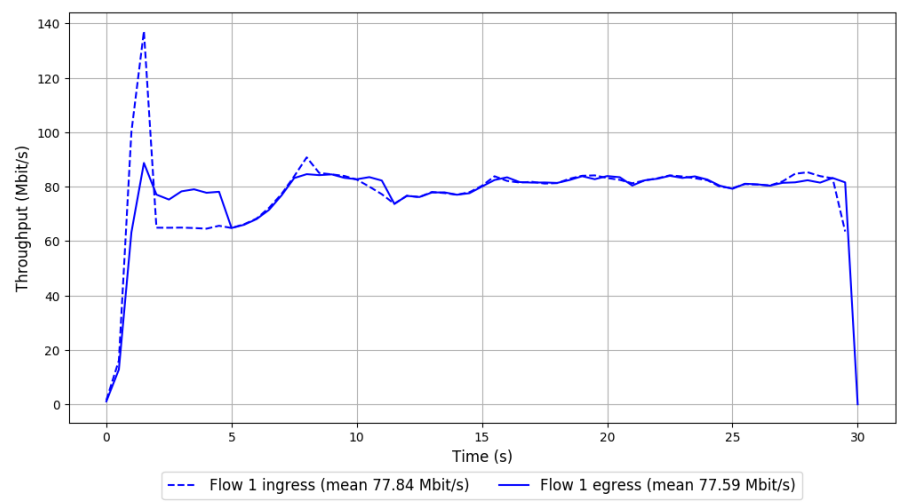
Run 7: Report of PCC — Data Link

Flow 1 ingress (mean 72.01 Mbit/s) — — — Flow 1 egress (mean 70.37 Mbit/s)

Flow 1 (95th percentile 462.19 ms)

```
Run 8: Statistics of PCC

Start at: Sun, 16 Jul 2017 21:17:32 +0000
End at: Sun, 16 Jul 2017 21:18:02 +0000
Local clock offset: 0.296 ms
Remote clock offset: -1.999 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.59 Mbit/s
95th percentile per-packet one-way delay: 372.626 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 77.59 Mbit/s
95th percentile per-packet one-way delay: 372.626 ms
Loss rate: 0.14%
```
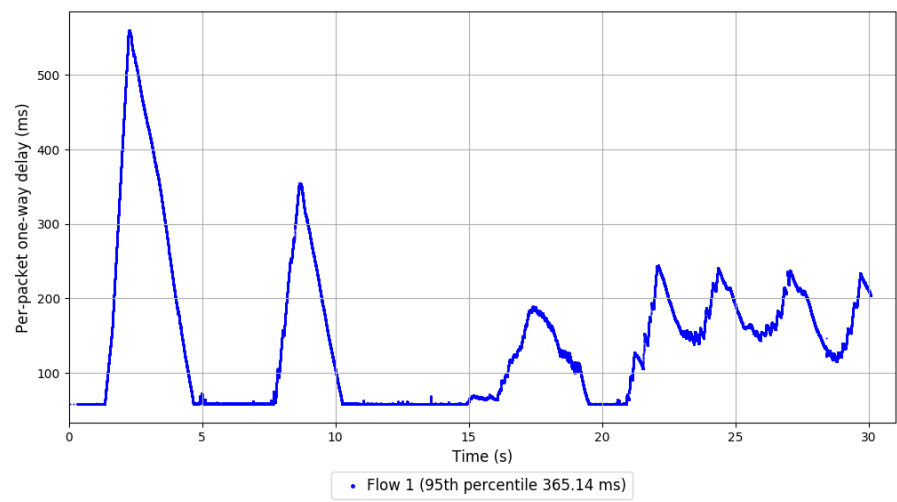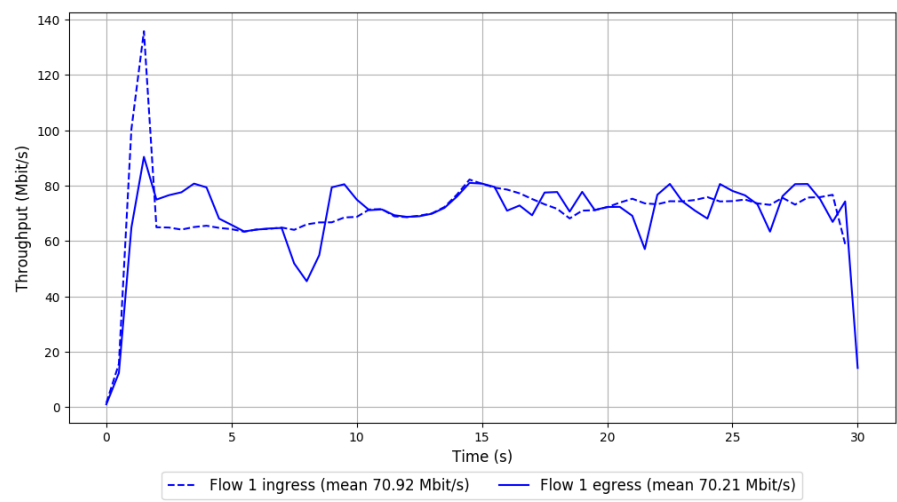
Run 8: Report of PCC — Data Link

Flow 1 ingress (mean 77.84 Mbit/s) — Flow 1 egress (mean 77.59 Mbit/s)

Flow 1 (95th percentile 372.63 ms)

```
Run 9: Statistics of PCC

Start at: Sun, 16 Jul 2017 21:34:56 +0000
End at: Sun, 16 Jul 2017 21:35:26 +0000
Local clock offset: 0.35 ms
Remote clock offset: -4.242 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:22 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.21 Mbit/s
95th percentile per-packet one-way delay: 365.144 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 70.21 Mbit/s
95th percentile per-packet one-way delay: 365.144 ms
Loss rate: 0.51%
```
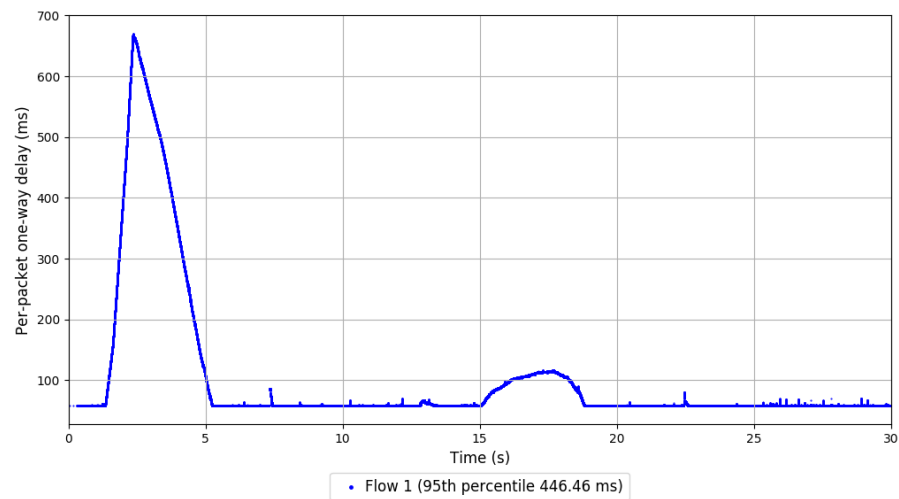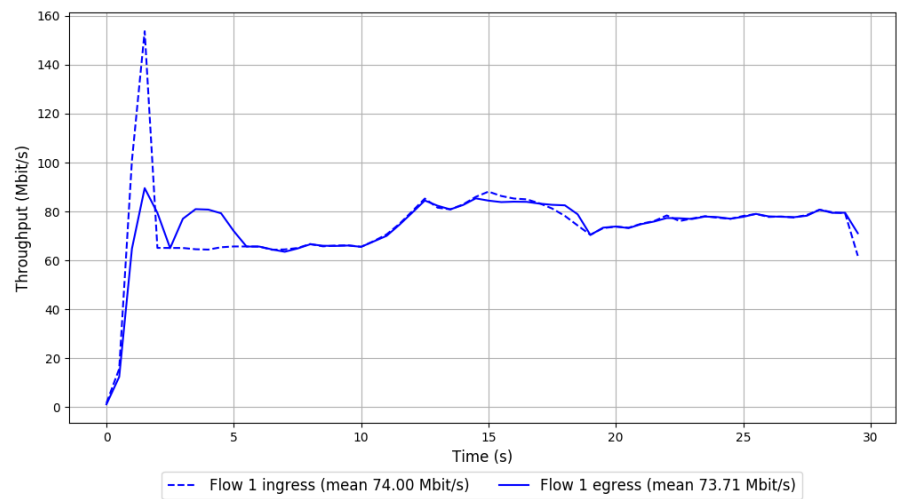
Run 9: Report of PCC — Data Link

Flow 1 ingress (mean 70.92 Mbit/s) ----   Flow 1 egress (mean 70.21 Mbit/s) ——

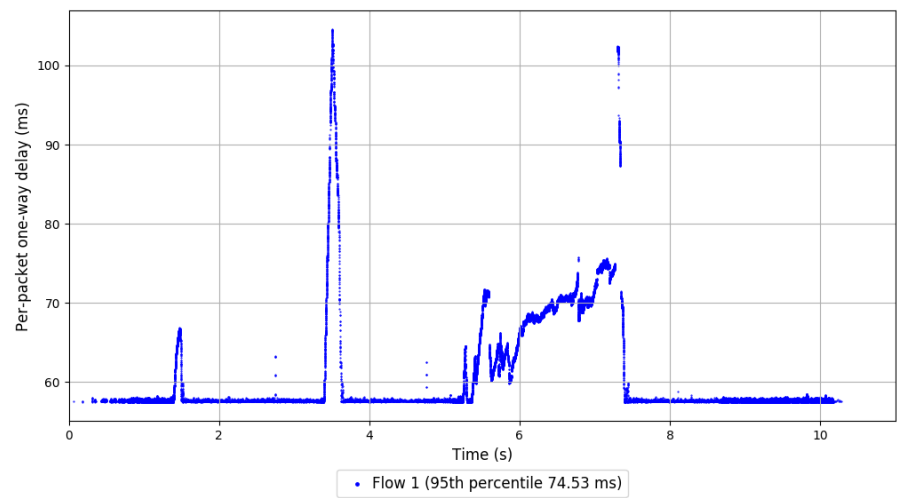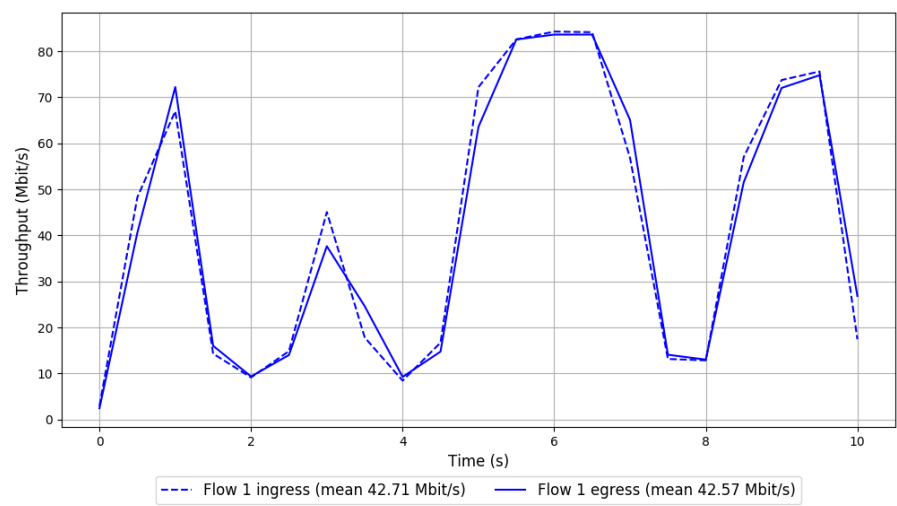Flow 1 (95th percentile 365.14 ms)

```
Run 10: Statistics of PCC

Start at: Sun, 16 Jul 2017 21:52:16 +0000
End at: Sun, 16 Jul 2017 21:52:46 +0000
Local clock offset: 0.296 ms
Remote clock offset: -5.729 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:28 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.71 Mbit/s
95th percentile per-packet one-way delay: 446.464 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 73.71 Mbit/s
95th percentile per-packet one-way delay: 446.464 ms
Loss rate: 0.41%
```

Run 10: Report of PCC — Data Link

Flow 1 ingress (mean 74.00 Mbit/s)   Flow 1 egress (mean 73.71 Mbit/s)

Flow 1 (95th percentile 446.46 ms)

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Run 1: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 19:23:15 +0000
End at: Sun, 16 Jul 2017 19:23:45 +0000
Local clock offset: 0.381 ms
Remote clock offset: 1.205 ms

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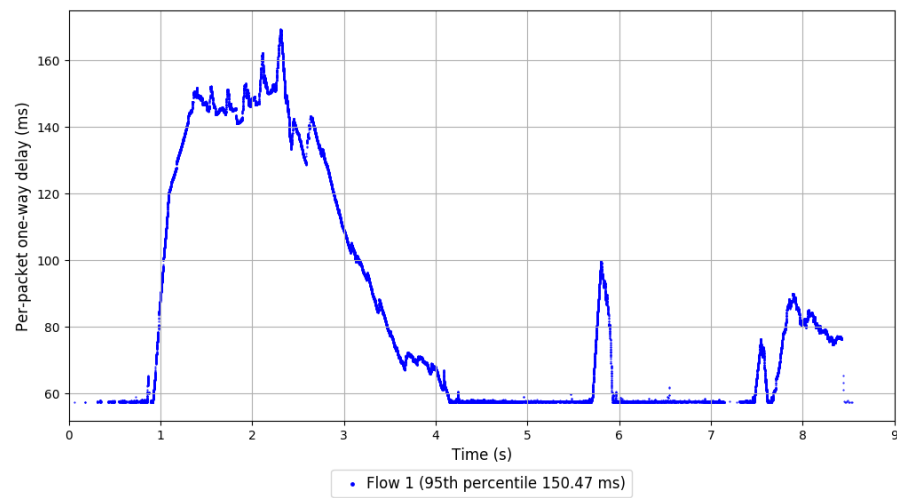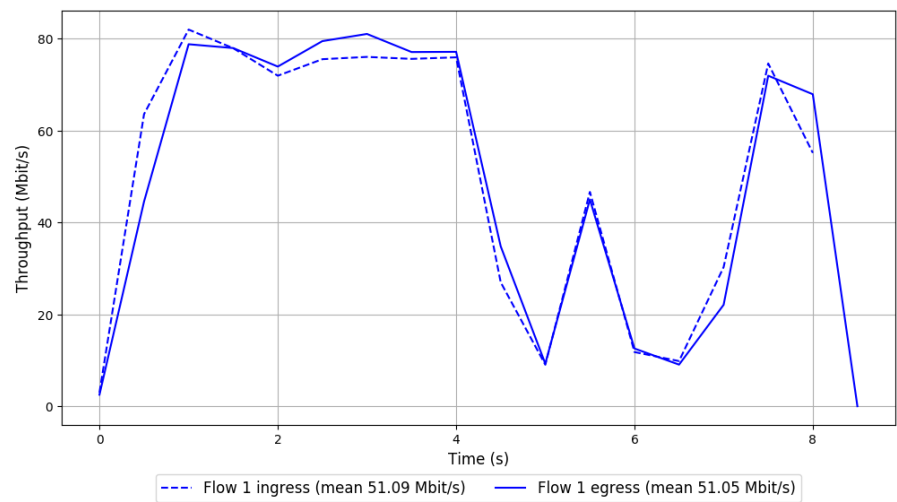
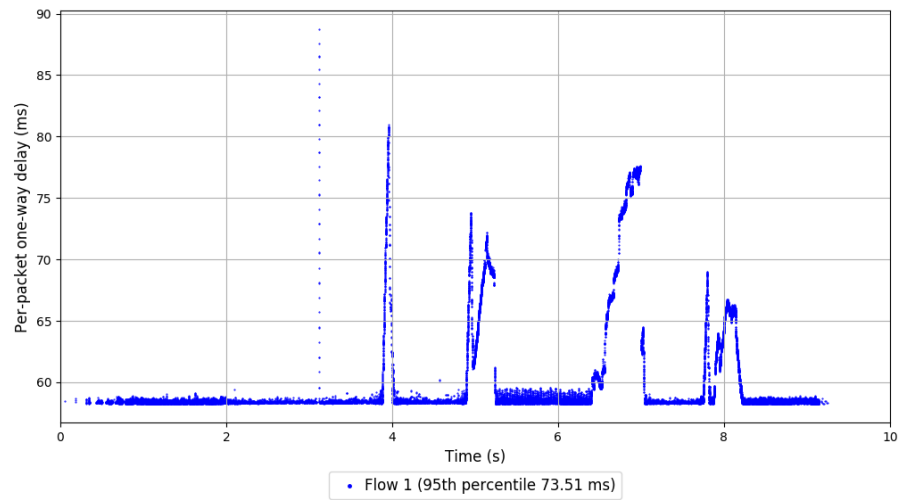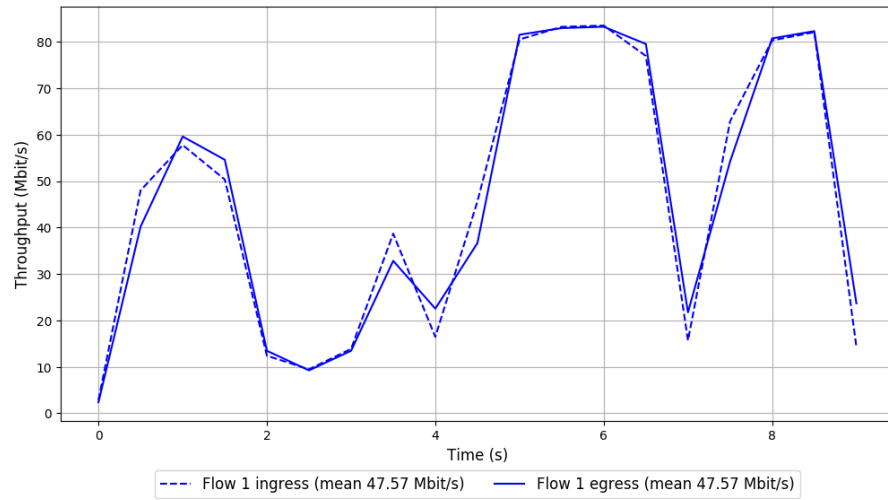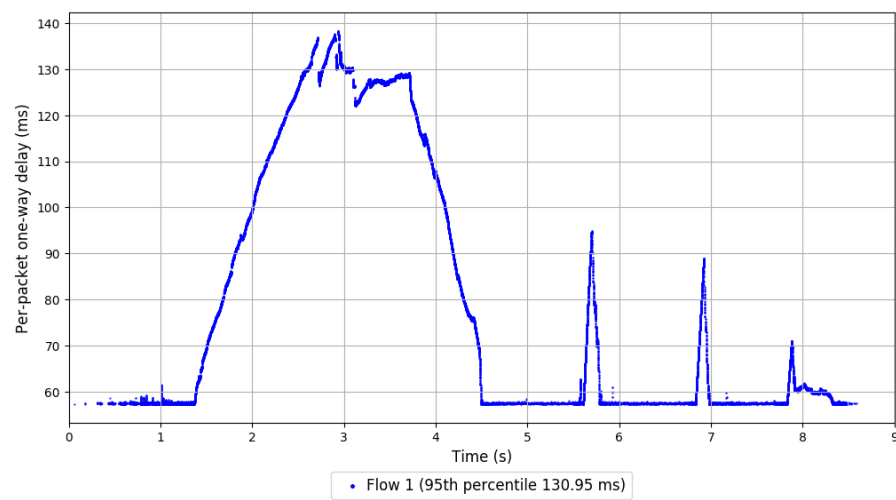Run 2: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 19:40:33 +0000
End at: Sun, 16 Jul 2017 19:41:03 +0000
Local clock offset: 0.406 ms
Remote clock offset: 1.156 ms

Run 2: Report of QUIC Cubic — Data Link

Run 3: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 19:57:56 +0000
End at: Sun, 16 Jul 2017 19:58:26 +0000
Local clock offset: 0.434 ms
Remote clock offset: 0.966 ms

Run 3: Report of QUIC Cubic — Data Link

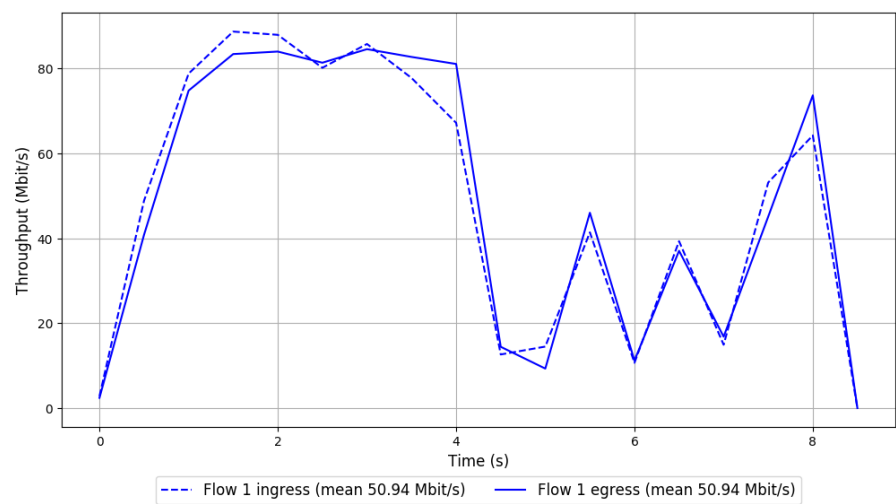Flow 1 ingress (mean 47.57 Mbit/s) --- Flow 1 egress (mean 47.57 Mbit/s)

Flow 1 (95th percentile 73.51 ms)

Run 4: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 20:14:12 +0000
End at: Sun, 16 Jul 2017 20:14:42 +0000
Local clock offset: 0.387 ms
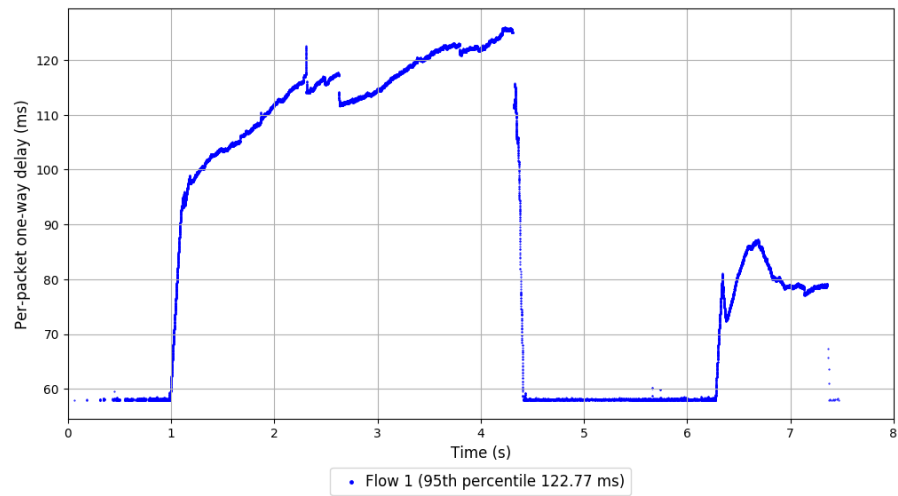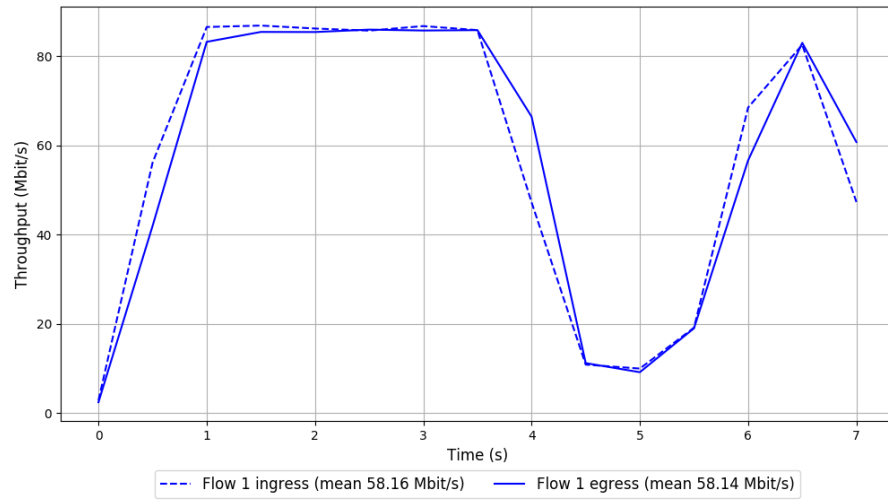
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 50.94 Mbit/s) — — — — Flow 1 egress (mean 50.94 Mbit/s)

• Flow 1 (95th percentile 130.95 ms)

Run 5: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 20:28:08 +0000
End at: Sun, 16 Jul 2017 20:28:38 +0000
Local clock offset: 0.304 ms

Run 5: Report of QUIC Cubic — Data Link

Run 6: Statistics of QUIC Cubic

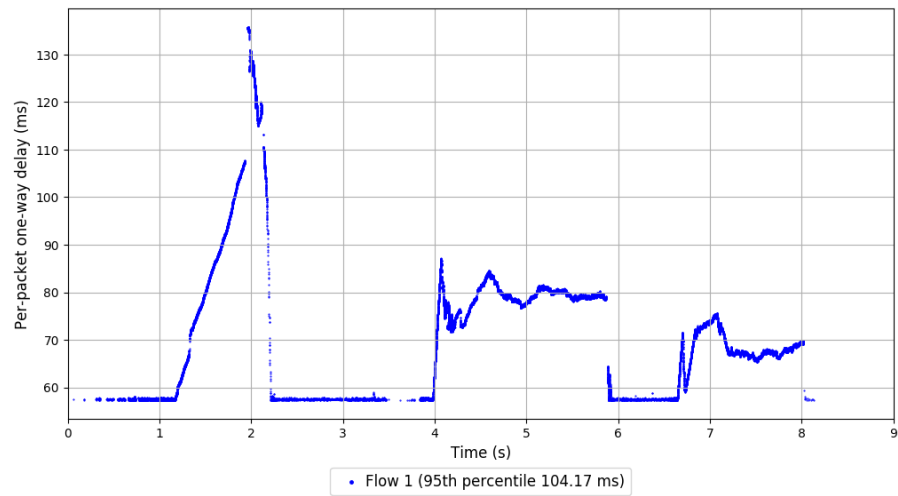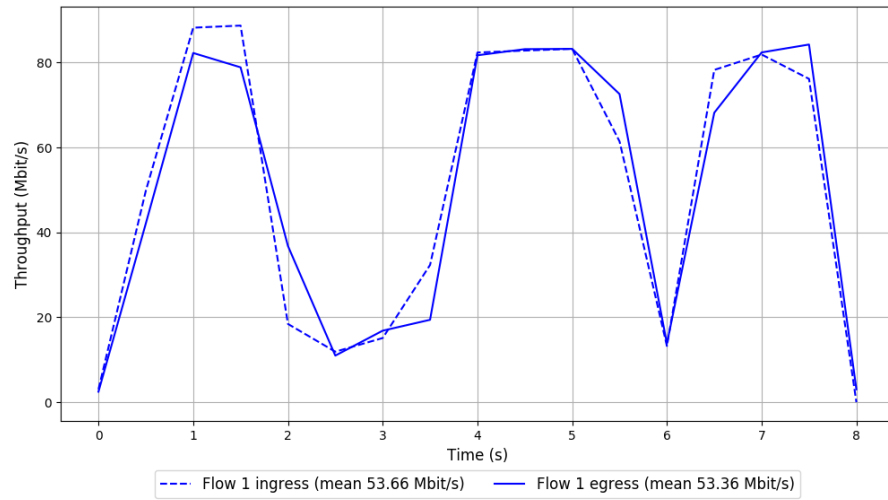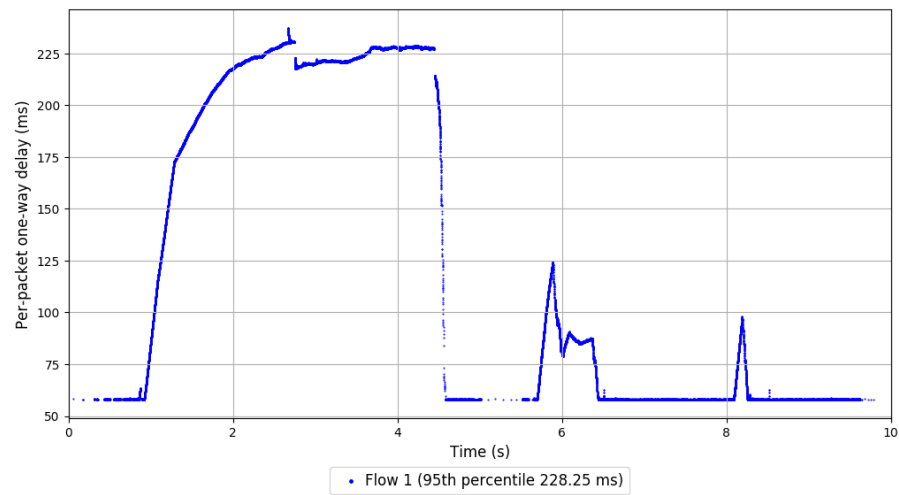Start at: Sun, 16 Jul 2017 20:44:51 +0000
End at: Sun, 16 Jul 2017 20:45:21 +0000
Local clock offset: 0.374 ms
Remote clock offset: 0.014 ms

Run 6: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 53.66 Mbit/s) --- Flow 1 egress (mean 53.36 Mbit/s)

Flow 1 (95th percentile 104.17 ms)

Run 7: Statistics of QUIC Cubic
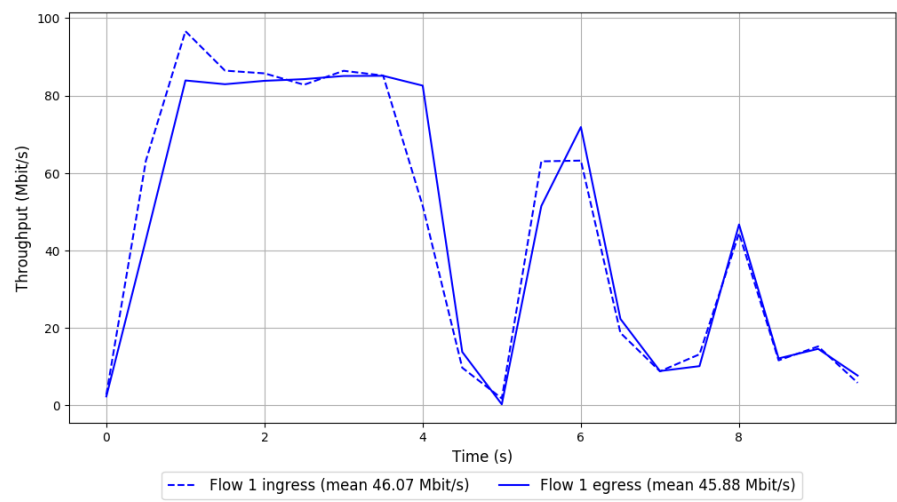
Start at: Sun, 16 Jul 2017 21:02:27 +0000
End at: Sun, 16 Jul 2017 21:02:57 +0000
Local clock offset: 0.354 ms
Remote clock offset: -1.357 ms

Run 7: Report of QUIC Cubic — Data Link
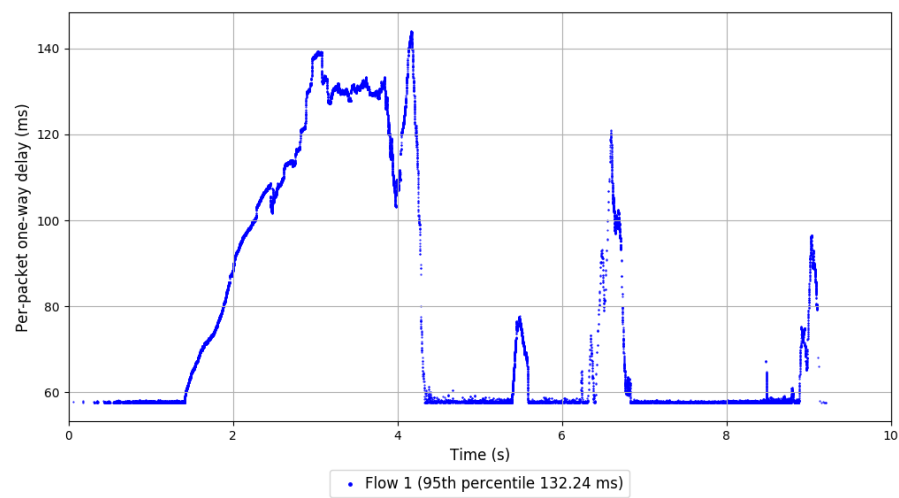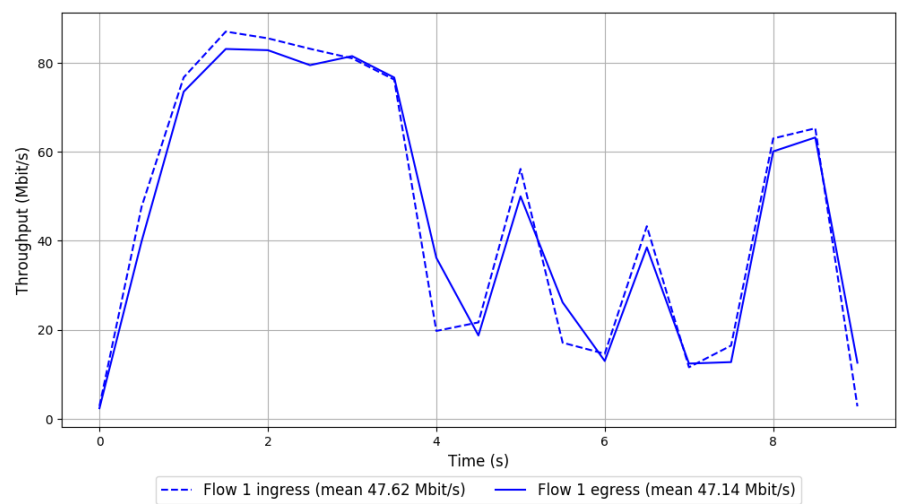
Run 8: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 21:19:57 +0000
End at: Sun, 16 Jul 2017 21:20:27 +0000
Local clock offset: 0.309 ms
Remote clock offset: -2.235 ms

Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 47.62 Mbit/s) — — — — Flow 1 egress (mean 47.14 Mbit/s)

• Flow 1 (95th percentile 132.24 ms)
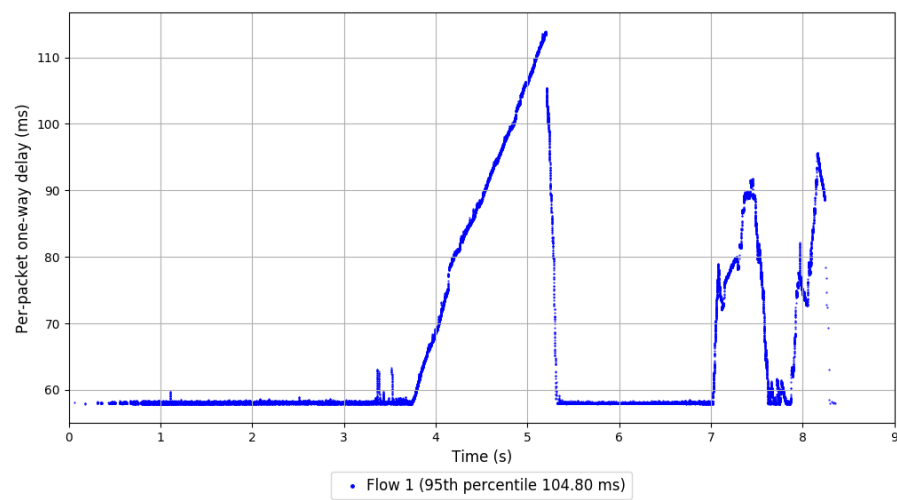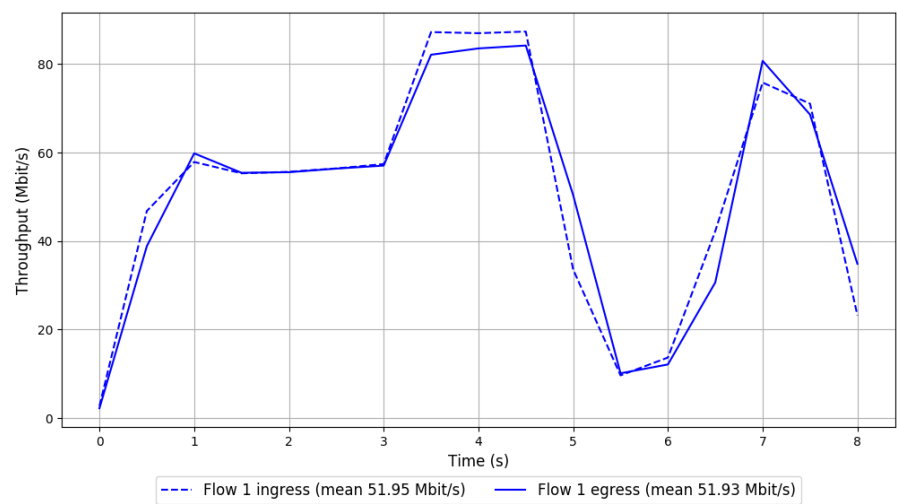
Run 9: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 21:37:25 +0000
End at: Sun, 16 Jul 2017 21:37:55 +0000
Local clock offset: 0.275 ms
Remote clock offset: -5.021 ms

Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 51.95 Mbit/s)   Flow 1 egress (mean 51.93 Mbit/s)

Flow 1 (95th percentile 104.80 ms)
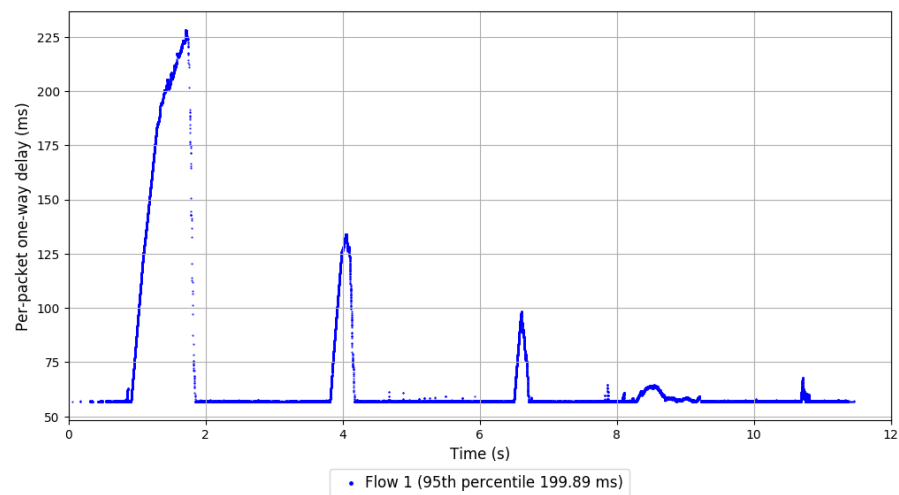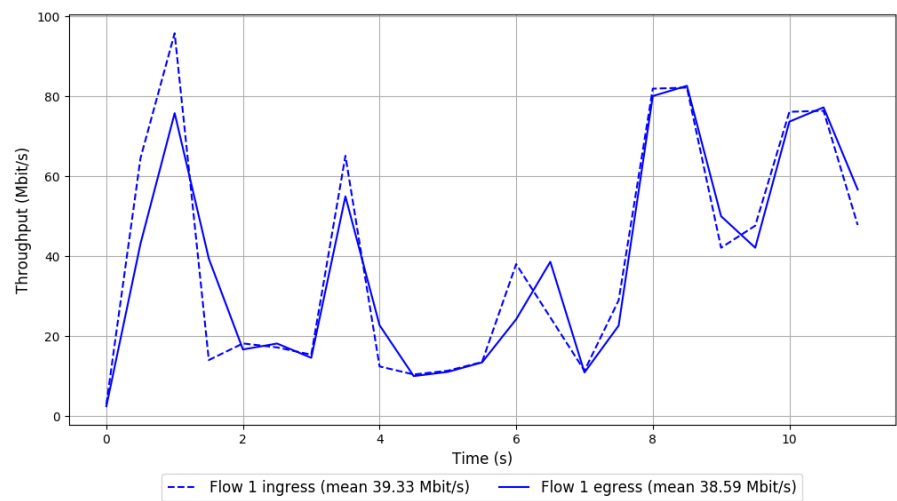
Run 10: Statistics of QUIC Cubic

Start at: Sun, 16 Jul 2017 21:54:42 +0000
End at: Sun, 16 Jul 2017 21:55:12 +0000
Local clock offset: 0.364 ms
Remote clock offset: -5.812 ms

Run 10: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 39.33 Mbit/s) --- Flow 1 egress (mean 38.59 Mbit/s)

Flow 1 (95th percentile 199.89 ms)

```
Run 1: Statistics of Saturator

Start at: Sun, 16 Jul 2017 19:12:47 +0000
End at: Sun, 16 Jul 2017 19:13:17 +0000
Local clock offset: 0.455 ms
Remote clock offset: 1.253 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:43 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.62 Mbit/s
95th percentile per-packet one-way delay: 58.139 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.62 Mbit/s
95th percentile per-packet one-way delay: 58.139 ms
Loss rate: 0.00%
```
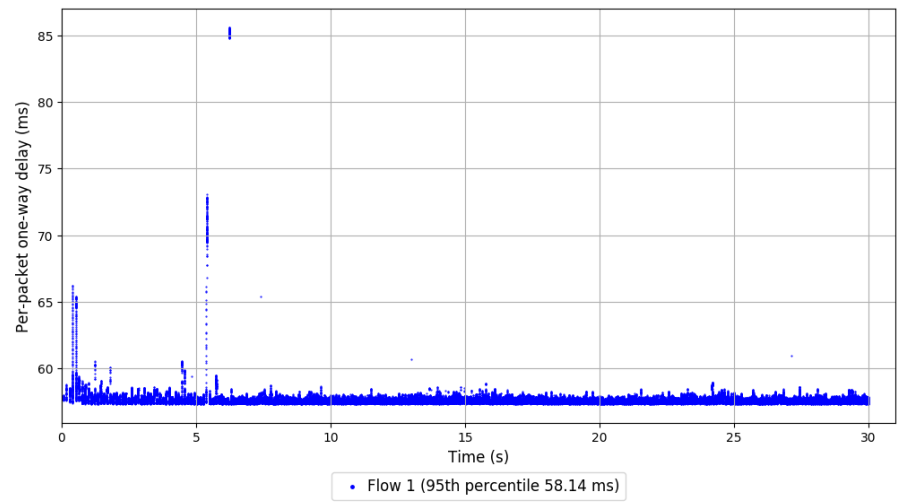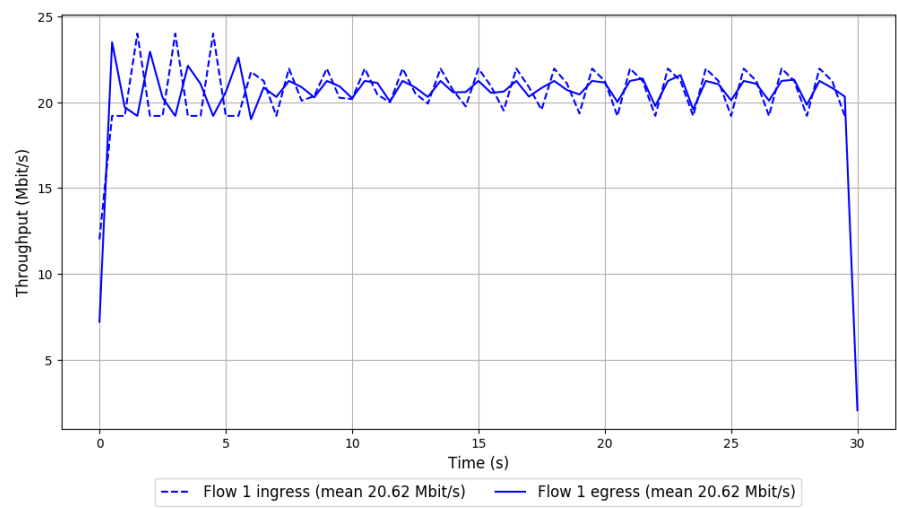
Run 1: Report of Saturator — Data Link

```
Run 2: Statistics of Saturator

Start at: Sun, 16 Jul 2017 19:30:01 +0000
End at: Sun, 16 Jul 2017 19:30:31 +0000
Local clock offset: 0.377 ms
Remote clock offset: 1.092 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:45 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.42 Mbit/s
95th percentile per-packet one-way delay: 59.553 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 20.42 Mbit/s
95th percentile per-packet one-way delay: 59.553 ms
Loss rate: 0.11%
```
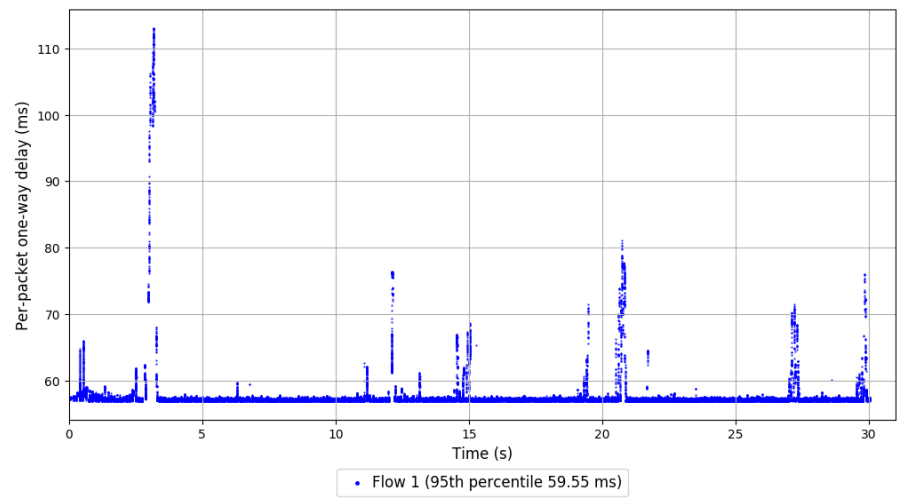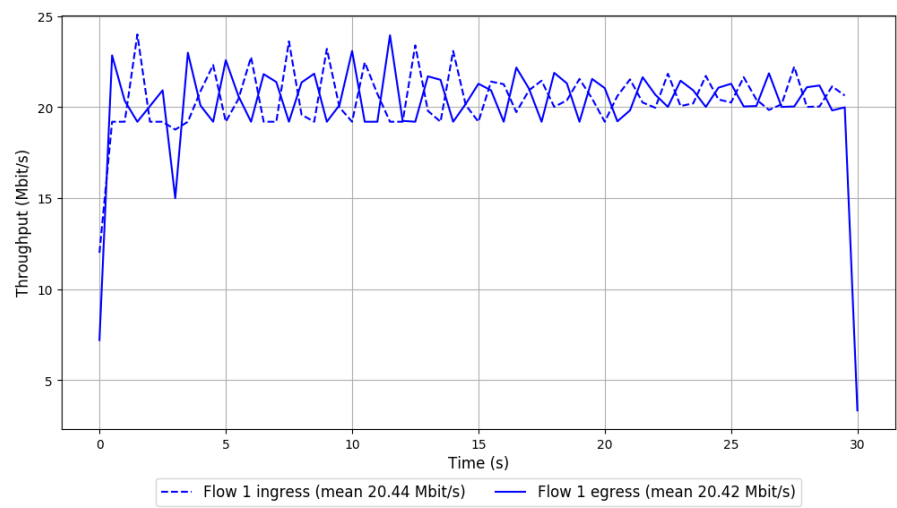
Run 2: Report of Saturator — Data Link

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```
Run 3: Statistics of Saturator

Start at: Sun, 16 Jul 2017 19:47:23 +0000
End at: Sun, 16 Jul 2017 19:47:53 +0000
Local clock offset: 0.466 ms
Remote clock offset: 1.234 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:47 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.54 Mbit/s
95th percentile per-packet one-way delay: 58.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.54 Mbit/s
95th percentile per-packet one-way delay: 58.904 ms
Loss rate: 0.00%
```
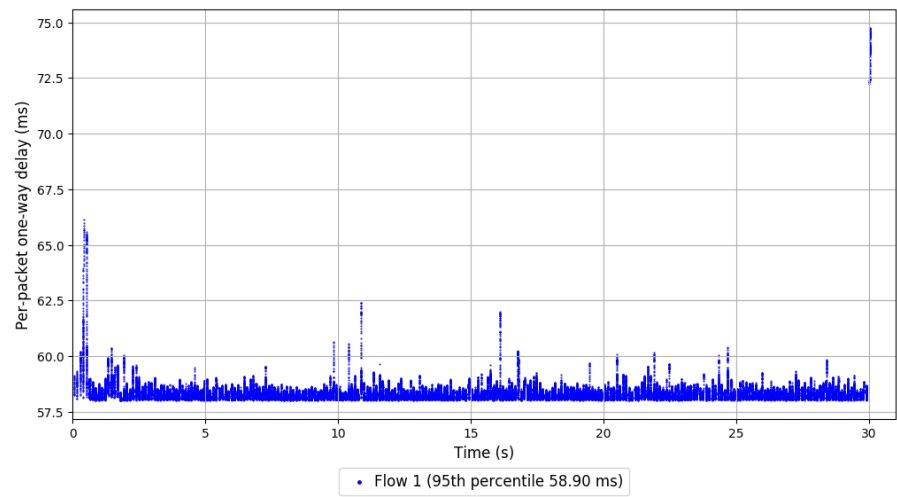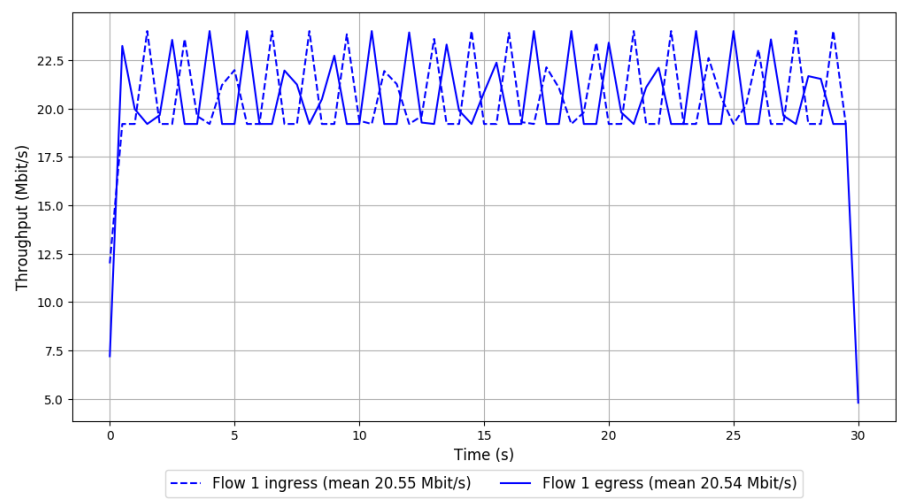
Run 3: Report of Saturator — Data Link

```
Run 4: Statistics of Saturator

Start at: Sun, 16 Jul 2017 20:04:43 +0000
End at: Sun, 16 Jul 2017 20:05:13 +0000
Local clock offset: 0.375 ms
Remote clock offset: 1.32 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:48 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.42 Mbit/s
95th percentile per-packet one-way delay: 59.664 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 20.42 Mbit/s
95th percentile per-packet one-way delay: 59.664 ms
Loss rate: 0.06%
```
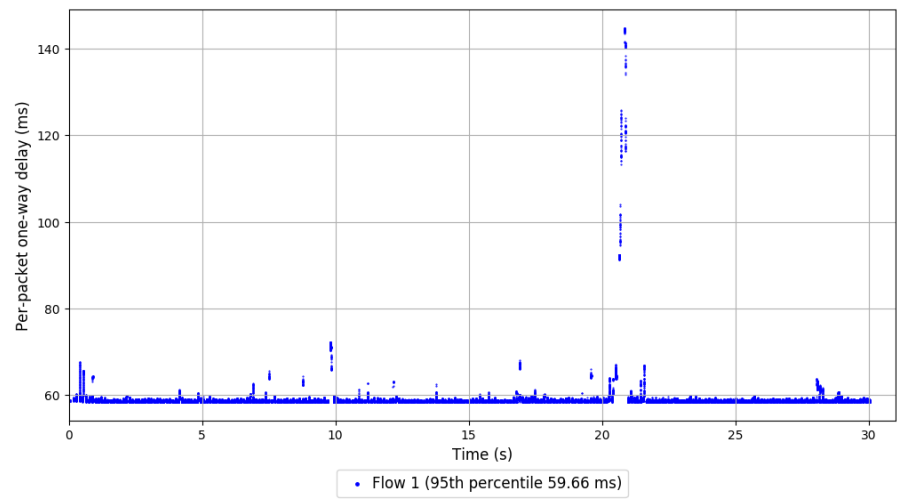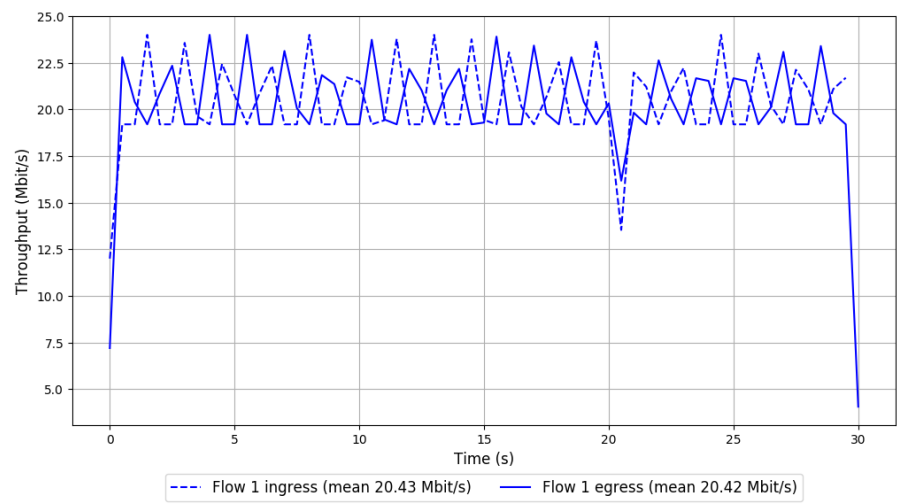
Run 4: Report of Saturator — Data Link

Flow 1 ingress (mean 20.43 Mbit/s) — Flow 1 egress (mean 20.42 Mbit/s)

• Flow 1 (95th percentile 59.66 ms)

```
Run 5: Statistics of Saturator

Start at: Sun, 16 Jul 2017 20:19:36 +0000
End at: Sun, 16 Jul 2017 20:20:06 +0000
Local clock offset: 0.377 ms

# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:50 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.29 Mbit/s
95th percentile per-packet one-way delay: 59.253 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 20.29 Mbit/s
95th percentile per-packet one-way delay: 59.253 ms
Loss rate: 0.09%
```
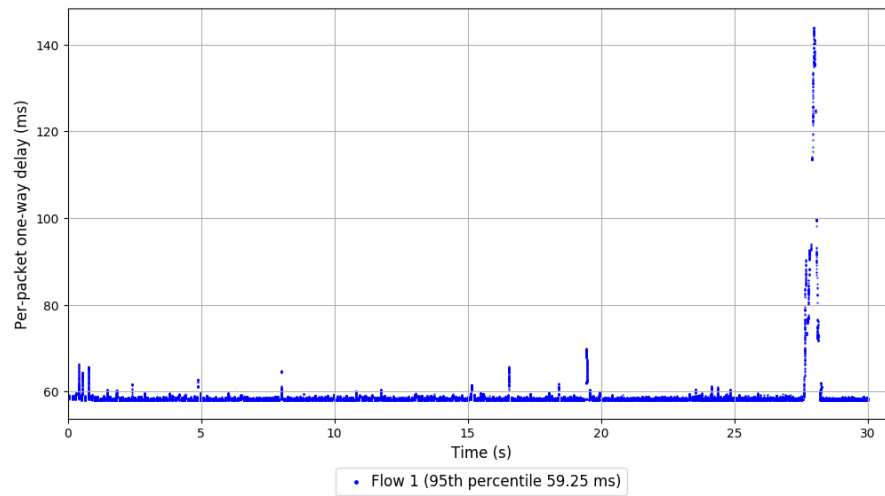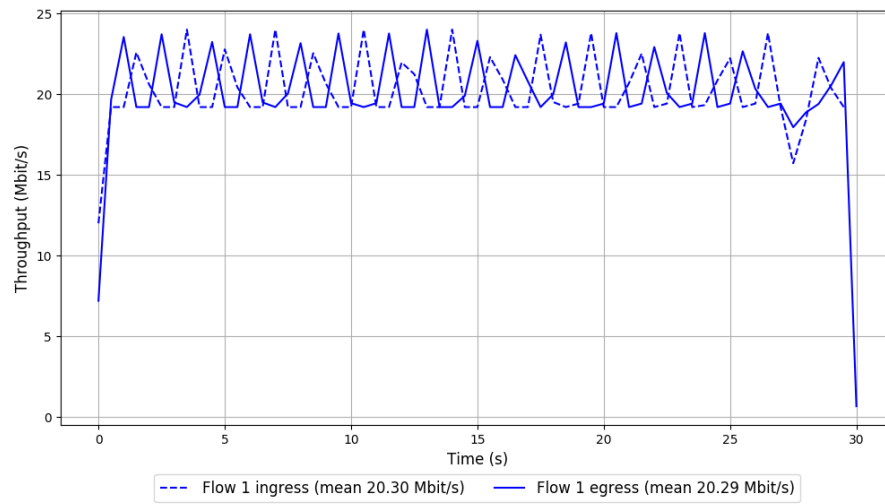
Run 5: Report of Saturator — Data Link

Flow 1 ingress (mean 20.30 Mbit/s) — Flow 1 egress (mean 20.29 Mbit/s)

Flow 1 (95th percentile 59.25 ms)

```
Run 6: Statistics of Saturator

Start at: Sun, 16 Jul 2017 20:34:20 +0000
End at: Sun, 16 Jul 2017 20:34:50 +0000
Local clock offset: 0.318 ms
Remote clock offset: 0.43 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:52 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.56 Mbit/s
95th percentile per-packet one-way delay: 58.569 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.56 Mbit/s
95th percentile per-packet one-way delay: 58.569 ms
Loss rate: 0.00%
```
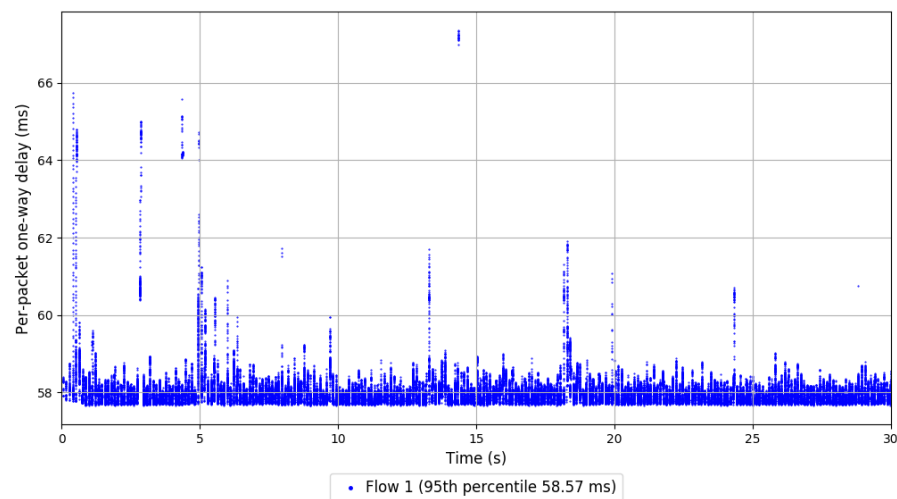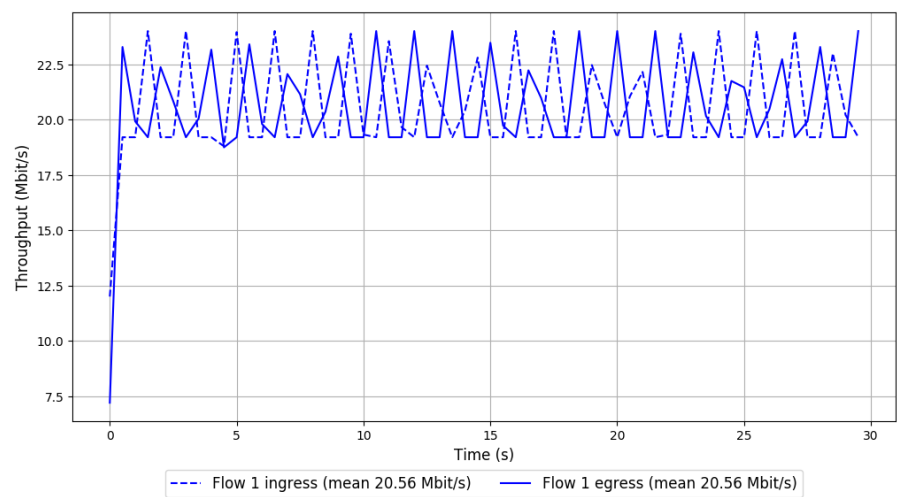
Run 6: Report of Saturator — Data Link

```
Run 7: Statistics of Saturator

Start at: Sun, 16 Jul 2017 20:51:40 +0000
End at: Sun, 16 Jul 2017 20:52:10 +0000
Local clock offset: 0.325 ms
Remote clock offset: -0.727 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:55 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.24 Mbit/s
95th percentile per-packet one-way delay: 59.605 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.24 Mbit/s
95th percentile per-packet one-way delay: 59.605 ms
Loss rate: 0.00%
```
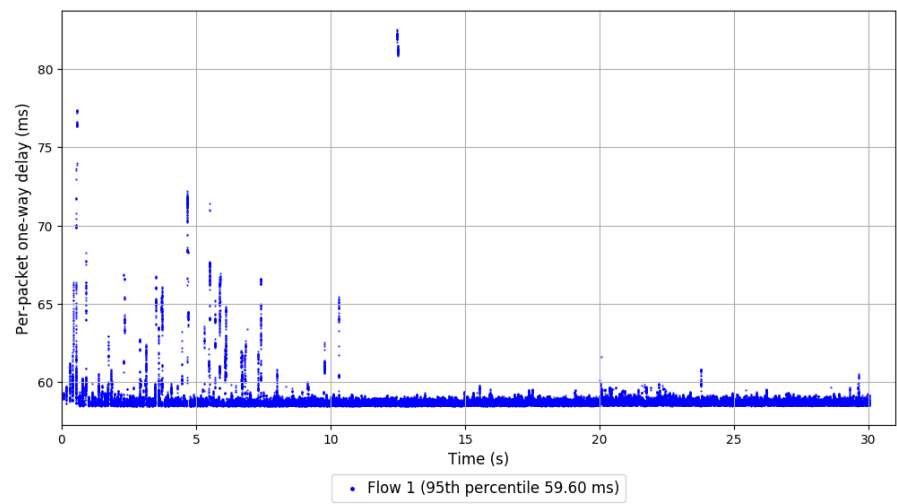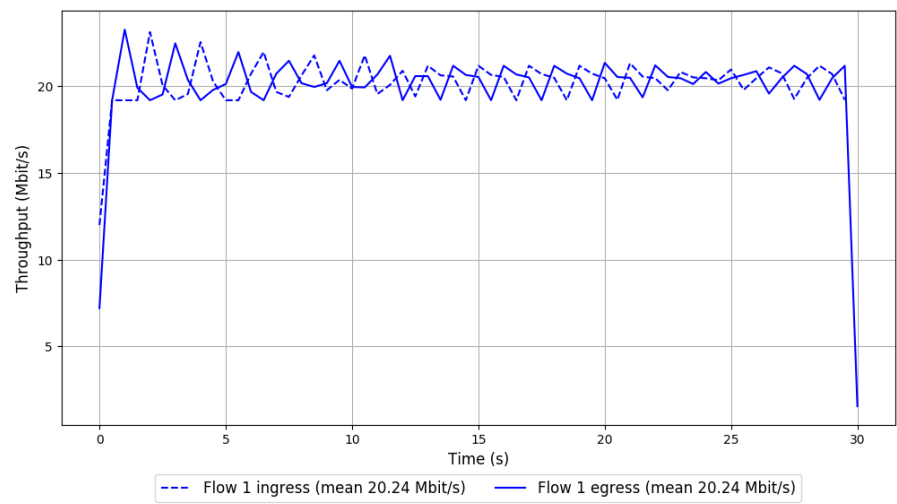
Run 7: Report of Saturator — Data Link

```
Run 8: Statistics of Saturator

Start at: Sun, 16 Jul 2017 21:09:26 +0000
End at: Sun, 16 Jul 2017 21:09:56 +0000
Local clock offset: 0.354 ms
Remote clock offset: -1.641 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:55 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.59 Mbit/s
95th percentile per-packet one-way delay: 58.238 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.59 Mbit/s
95th percentile per-packet one-way delay: 58.238 ms
Loss rate: 0.00%
```
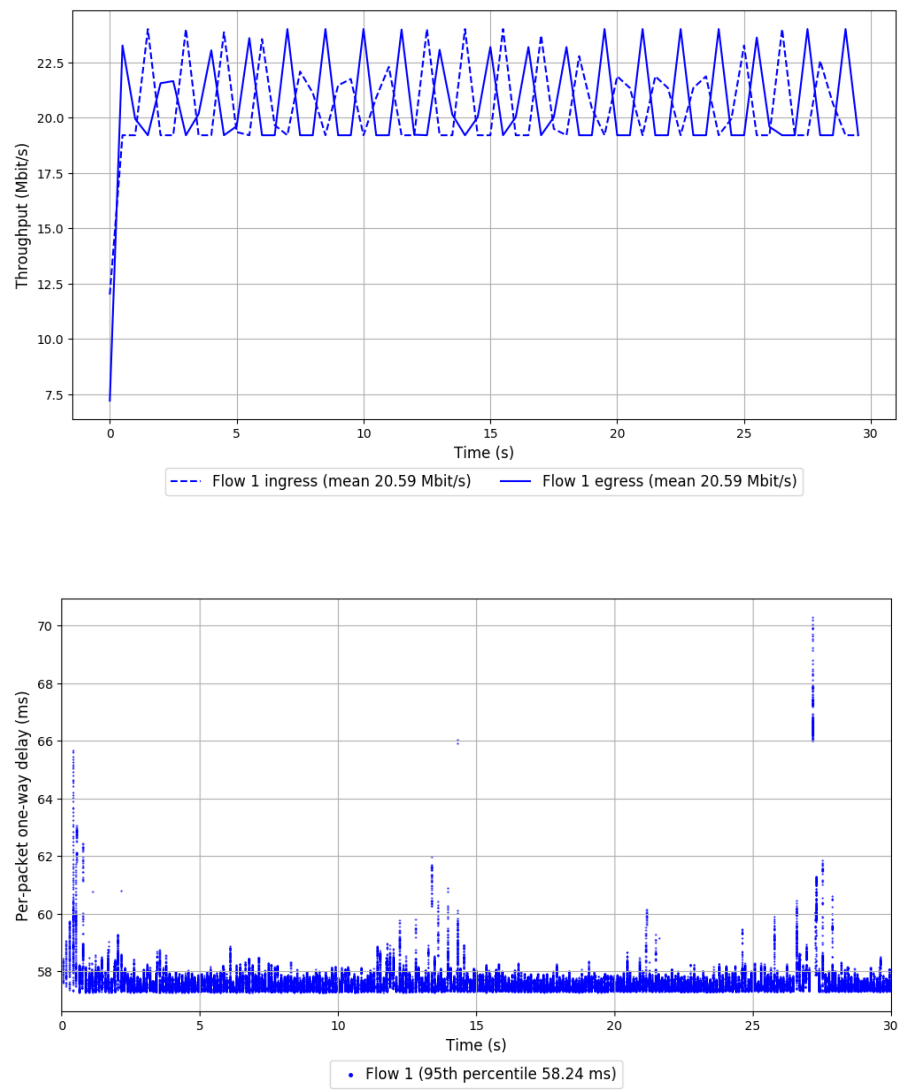
Run 8: Report of Saturator — Data Link

```
Run 9: Statistics of Saturator

Start at: Sun, 16 Jul 2017 21:26:44 +0000
End at: Sun, 16 Jul 2017 21:27:14 +0000
Local clock offset: 0.276 ms
Remote clock offset: -3.326 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 57.856 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 57.856 ms
Loss rate: 0.00%
```
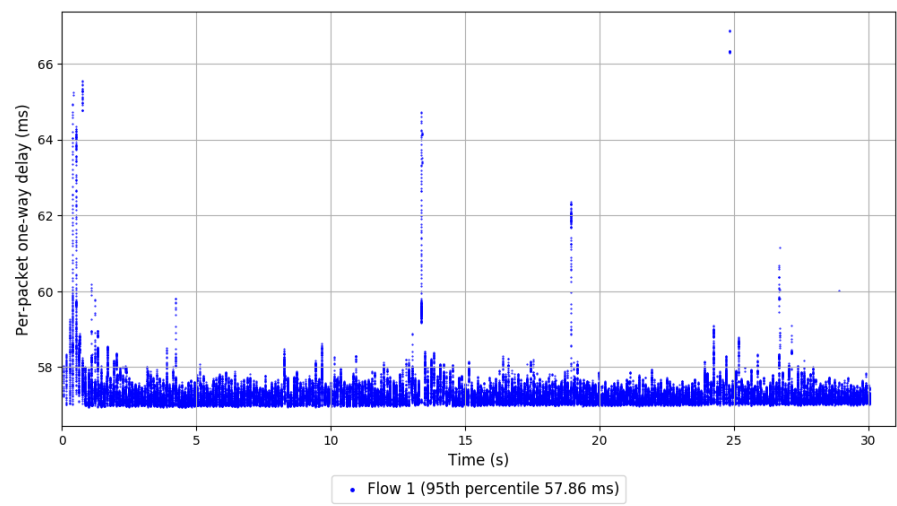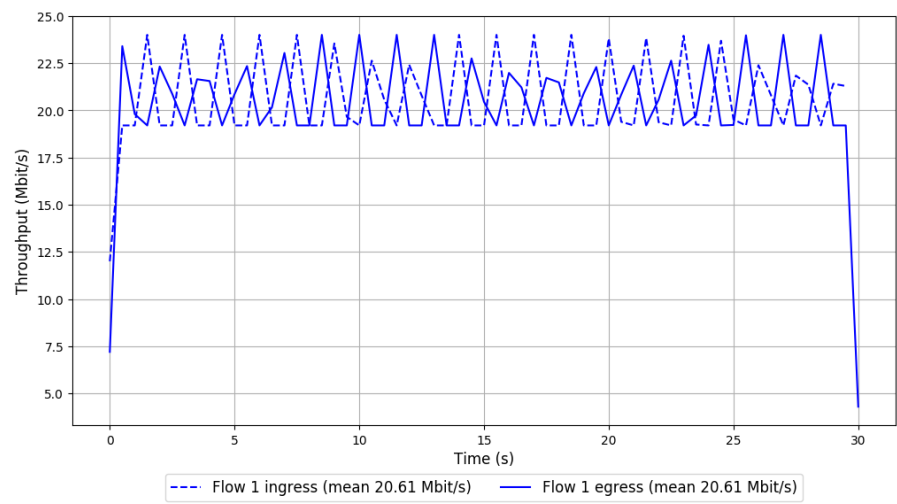
Run 9: Report of Saturator — Data Link

Flow 1 ingress (mean 20.61 Mbit/s)   Flow 1 egress (mean 20.61 Mbit/s)

Flow 1 (95th percentile 57.86 ms)

```
Run 10: Statistics of Saturator

Start at: Sun, 16 Jul 2017 21:44:12 +0000
End at: Sun, 16 Jul 2017 21:44:42 +0000
Local clock offset: 0.32 ms
Remote clock offset: -4.848 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:11:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.60 Mbit/s
95th percentile per-packet one-way delay: 59.290 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.60 Mbit/s
95th percentile per-packet one-way delay: 59.290 ms
Loss rate: 0.00%
```
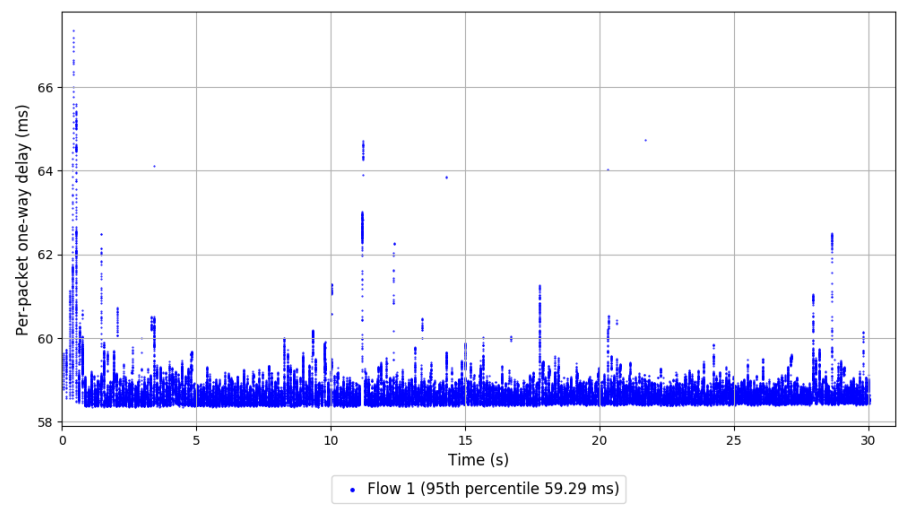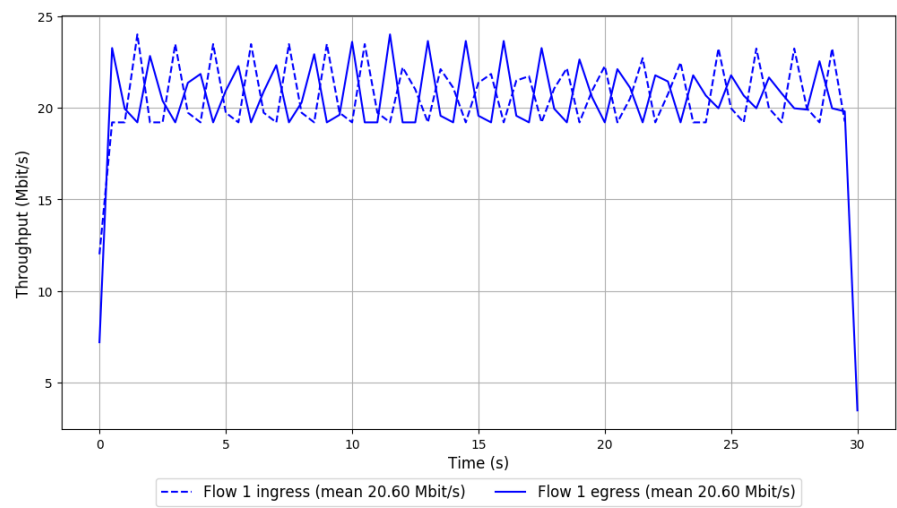
Run 10: Report of Saturator — Data Link

```
Run 1: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 19:19:51 +0000
End at: Sun, 16 Jul 2017 19:20:21 +0000
Local clock offset: 0.427 ms
Remote clock offset: 1.555 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:00 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 59.048 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 59.048 ms
Loss rate: 0.00%
```
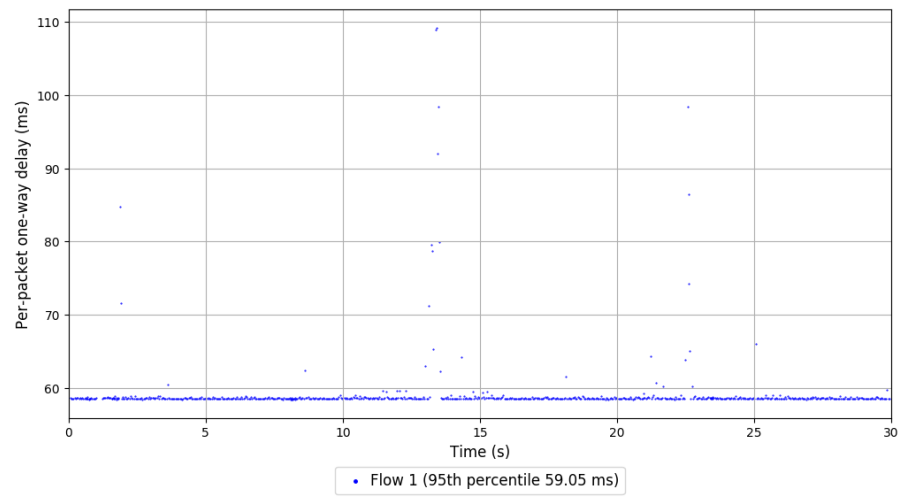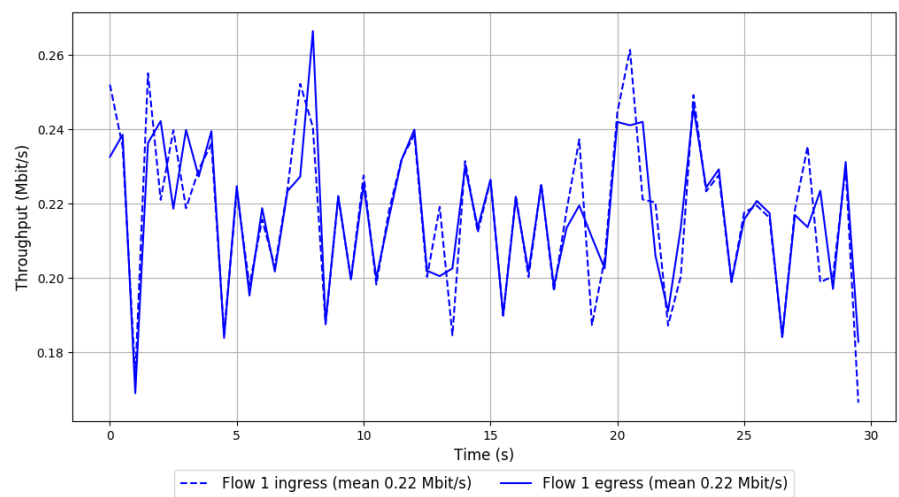
Run 1: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 59.05 ms)

```
Run 2: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 19:37:04 +0000
End at: Sun, 16 Jul 2017 19:37:34 +0000
Local clock offset: 0.471 ms
Remote clock offset: 1.434 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:00 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.581 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.581 ms
Loss rate: 0.00%
```
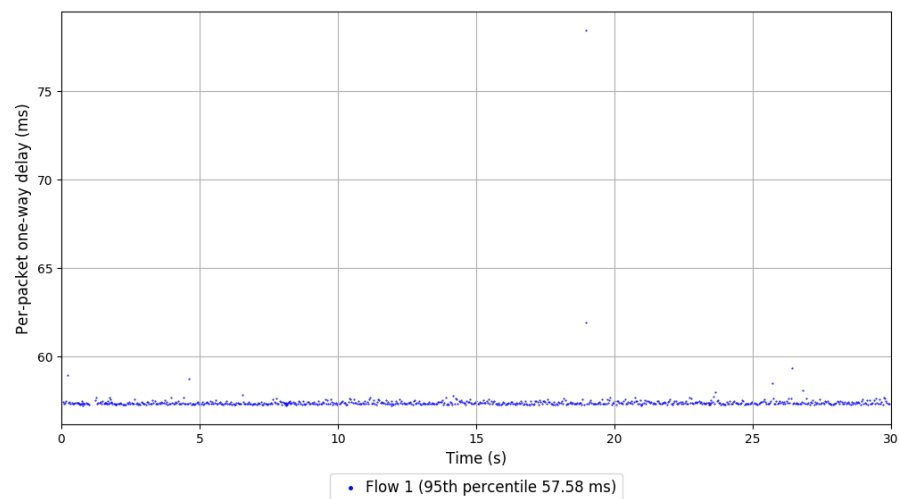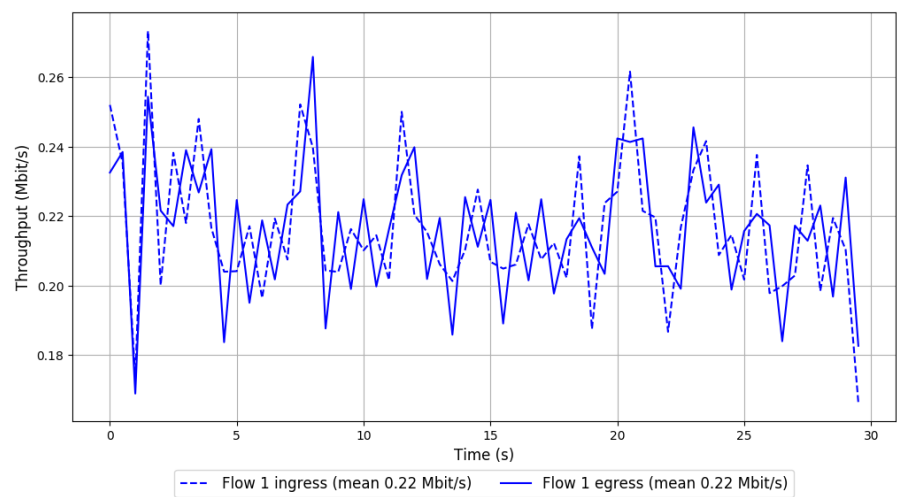
Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 19:54:24 +0000
End at: Sun, 16 Jul 2017 19:54:54 +0000
Local clock offset: 0.426 ms
Remote clock offset: 0.767 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:01 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.377 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.377 ms
Loss rate: 0.00%
```
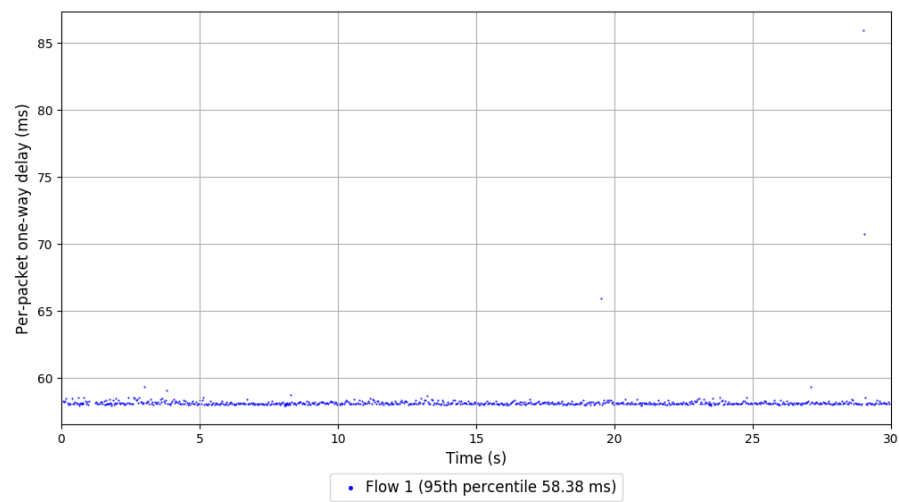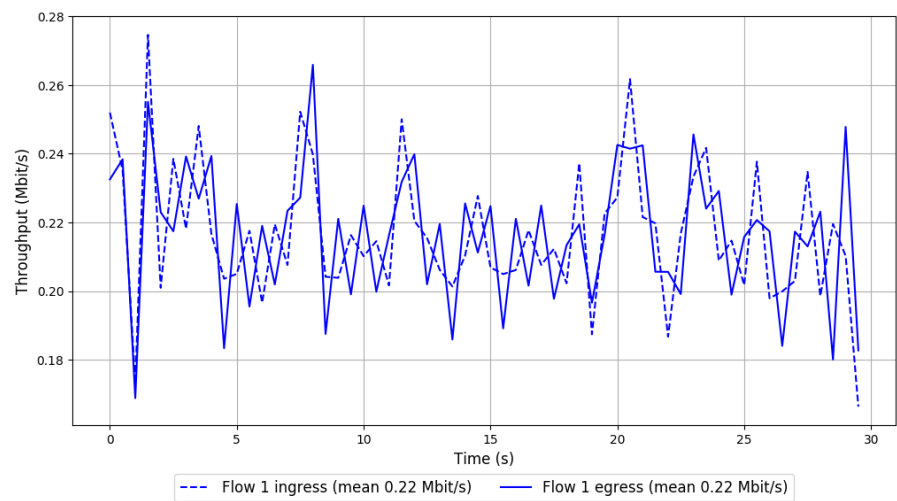
Run 3: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 58.38 ms)

```
Run 4: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 20:11:15 +0000
End at: Sun, 16 Jul 2017 20:11:45 +0000
Local clock offset: 0.417 ms

# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:02 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.292 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.292 ms
Loss rate: 0.00%
```
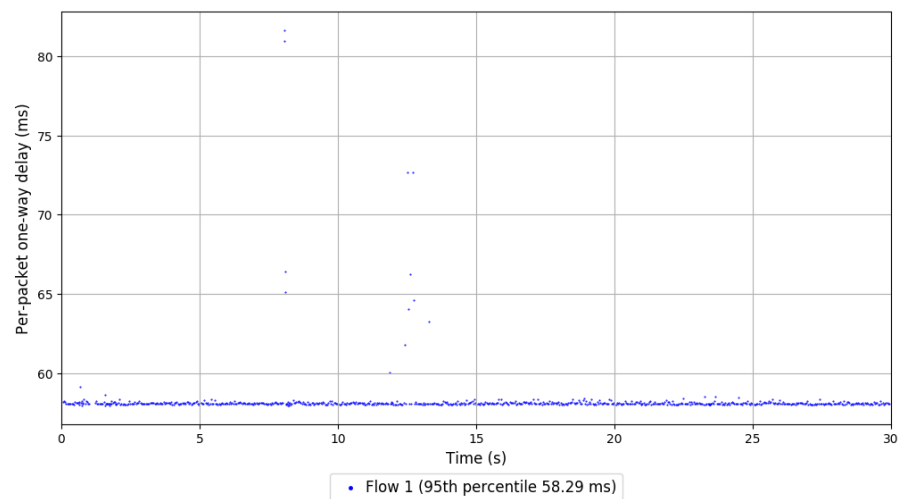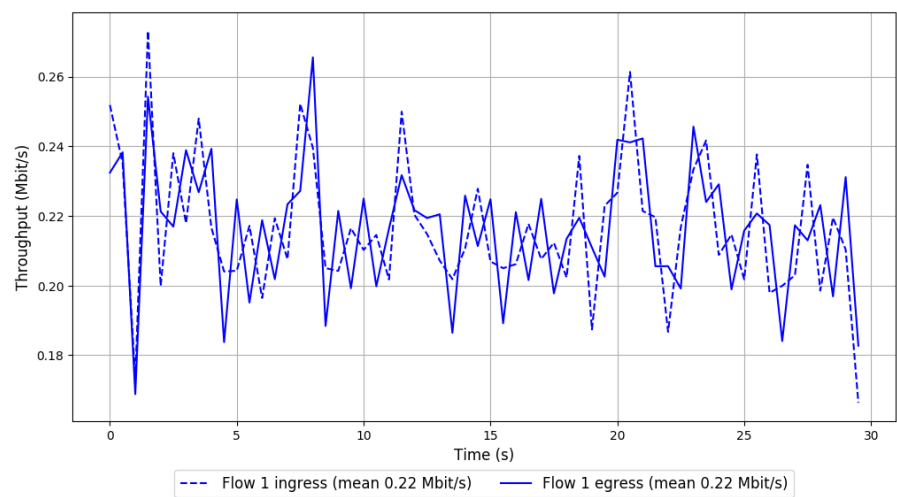
Run 4: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 58.29 ms)

```
Run 5: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 20:25:18 +0000
End at: Sun, 16 Jul 2017 20:25:48 +0000
Local clock offset: 0.323 ms

# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:02 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.035 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.035 ms
Loss rate: 0.00%
```
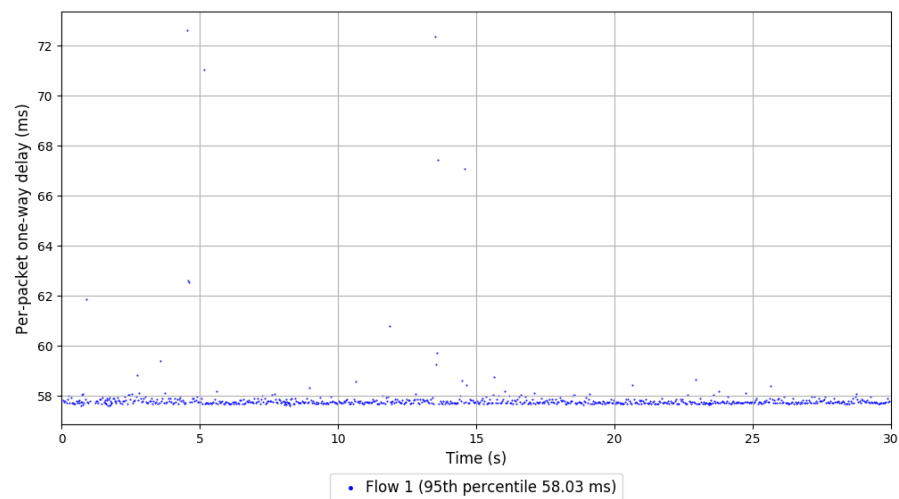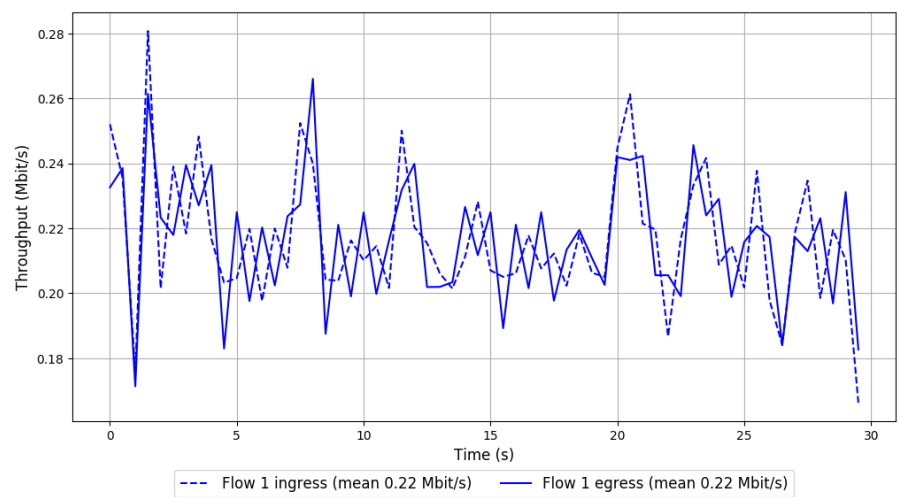
Run 5: Report of SCReAM — Data Link

```
Run 6: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 20:41:18 +0000
End at: Sun, 16 Jul 2017 20:41:48 +0000
Local clock offset: 0.402 ms
Remote clock offset: -0.111 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:03 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.726 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.726 ms
Loss rate: 0.00%
```
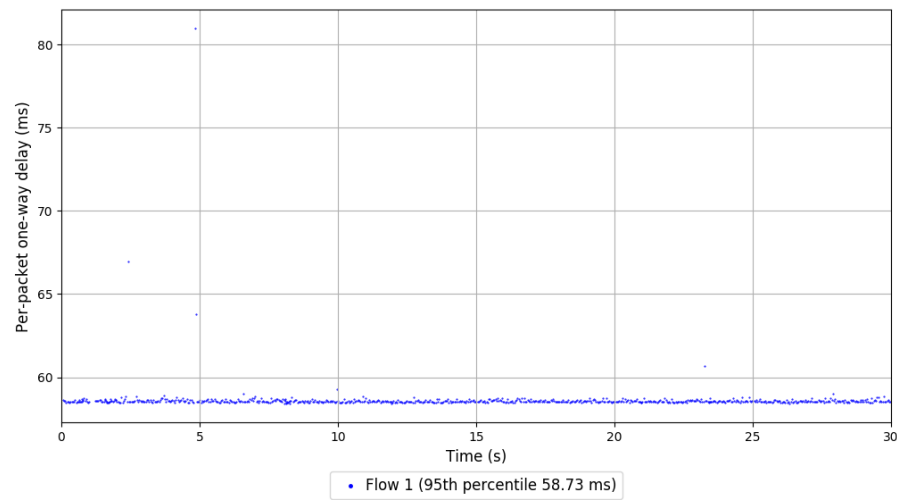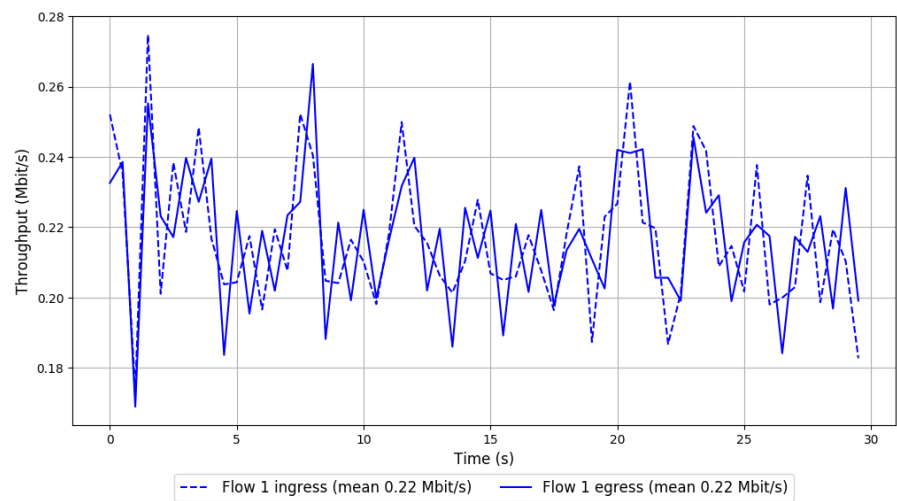
Run 6: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 58.73 ms)

```
Run 7: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 20:58:46 +0000
End at: Sun, 16 Jul 2017 20:59:16 +0000
Local clock offset: 0.267 ms
Remote clock offset: -1.148 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:03 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.445 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.445 ms
Loss rate: 0.00%
```
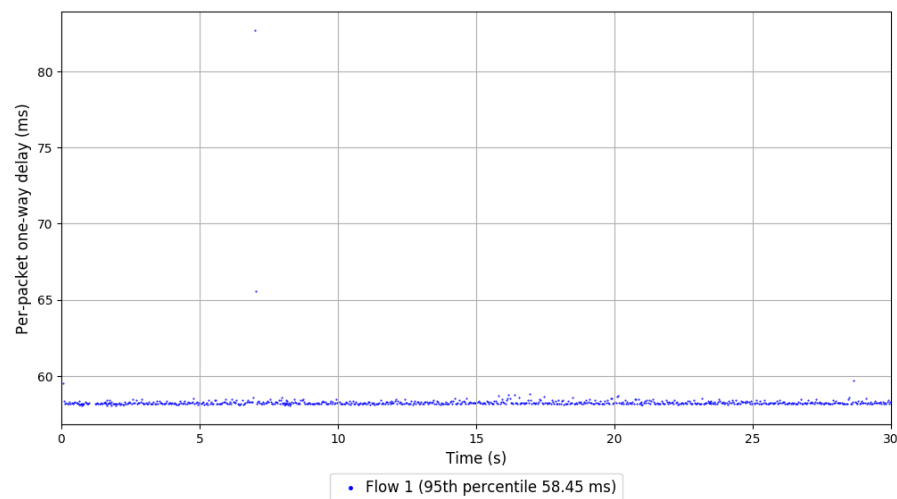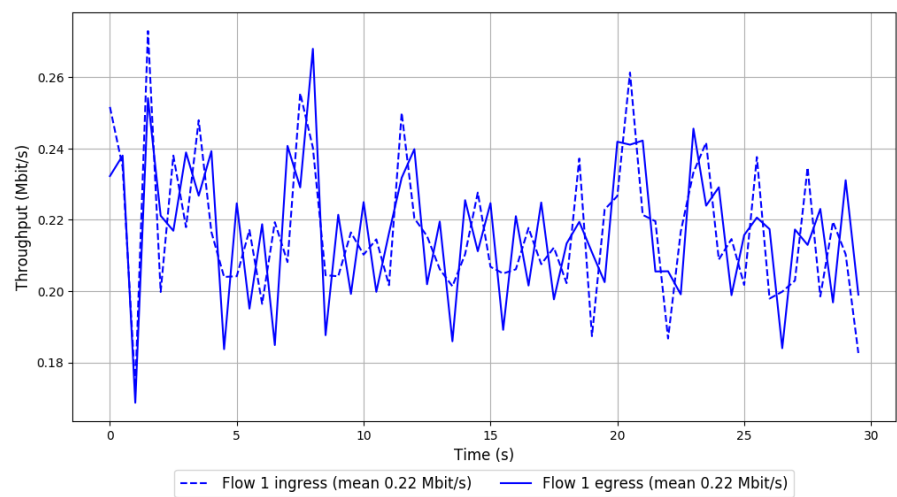
Run 7: Report of SCReAM — Data Link

```
Run 8: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 21:16:26 +0000
End at: Sun, 16 Jul 2017 21:16:56 +0000
Local clock offset: 0.409 ms
Remote clock offset: -2.409 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:04 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.288 ms
Loss rate: 0.00%
```
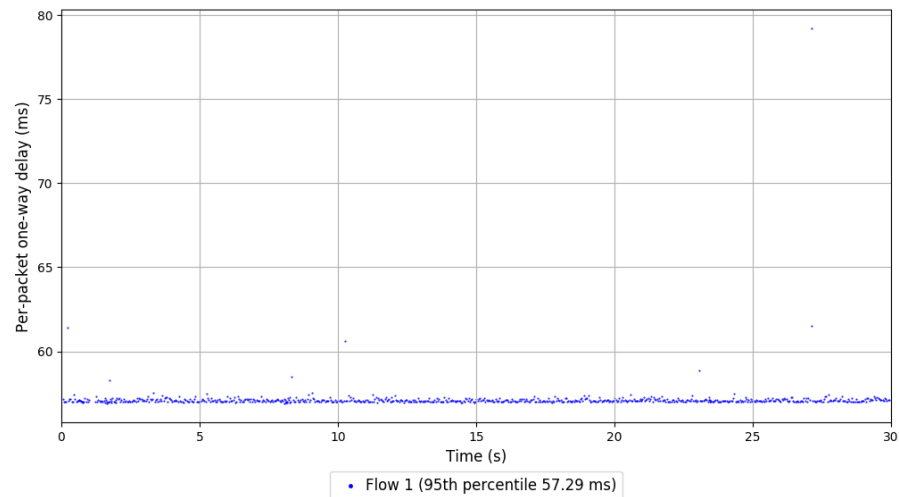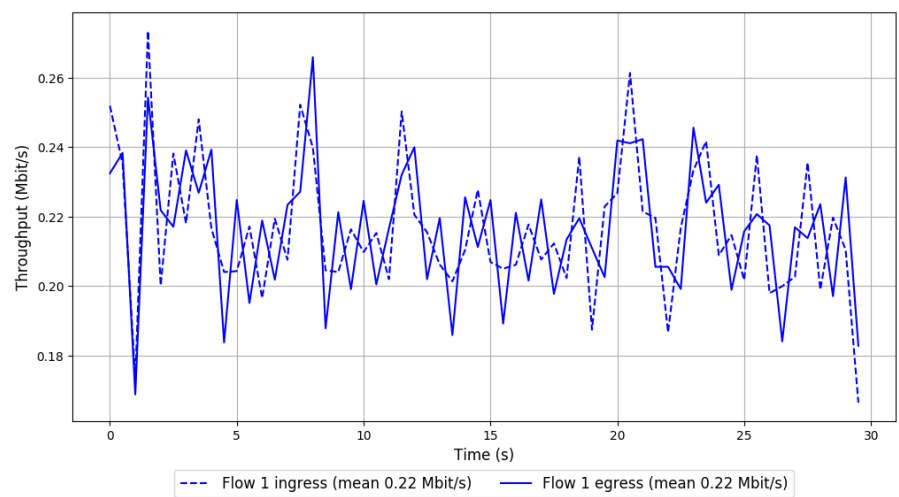
Run 8: Report of SCReAM — Data Link

```
Run 9: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 21:33:50 +0000
End at: Sun, 16 Jul 2017 21:34:20 +0000
Local clock offset: 0.29 ms
Remote clock offset: -4.167 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:04 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.561 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.561 ms
Loss rate: 0.00%
```
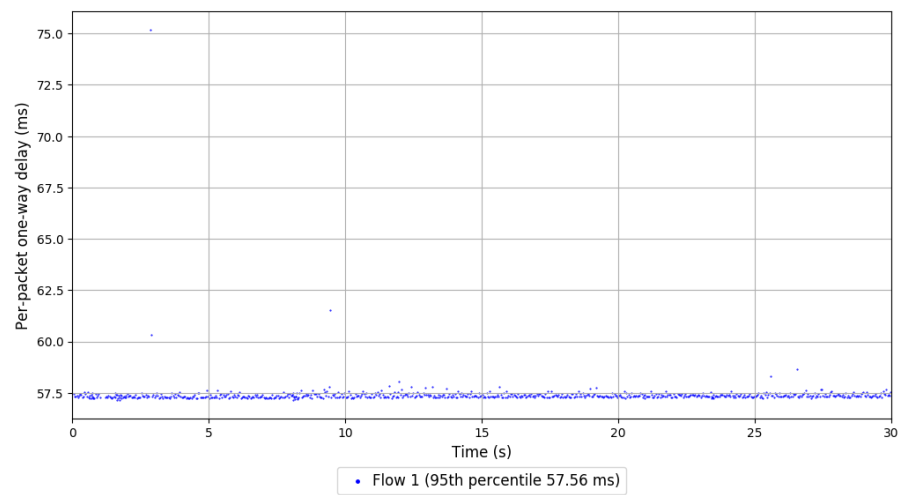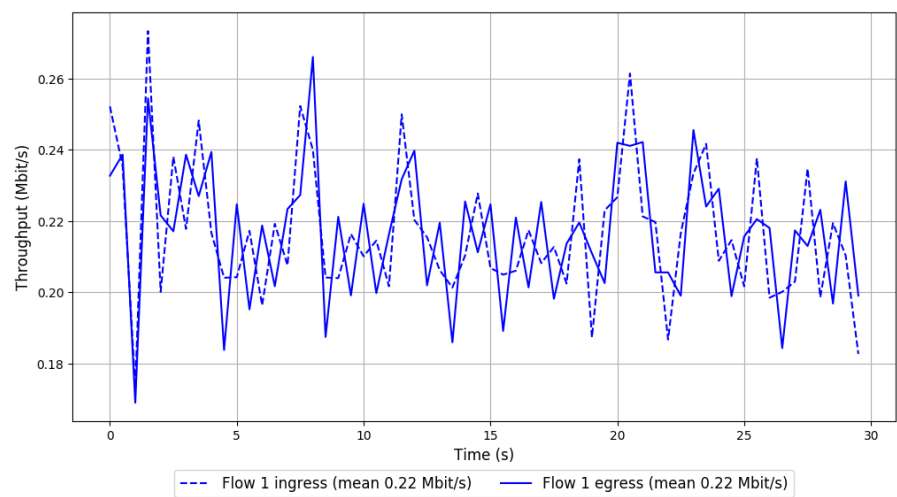
Run 9: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 57.56 ms)

```
Run 10: Statistics of SCReAM

Start at: Sun, 16 Jul 2017 21:51:10 +0000
End at: Sun, 16 Jul 2017 21:51:40 +0000
Local clock offset: 0.303 ms
Remote clock offset: -6.203 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:05 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.977 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.977 ms
Loss rate: 0.00%
```
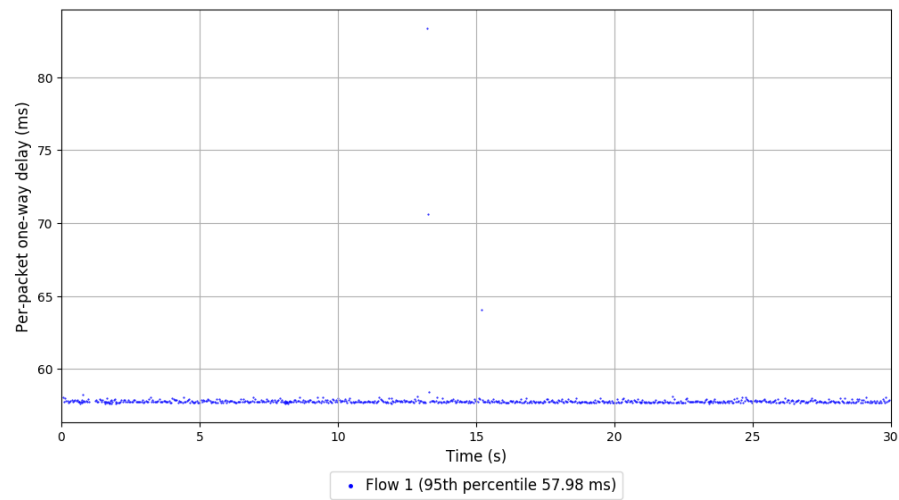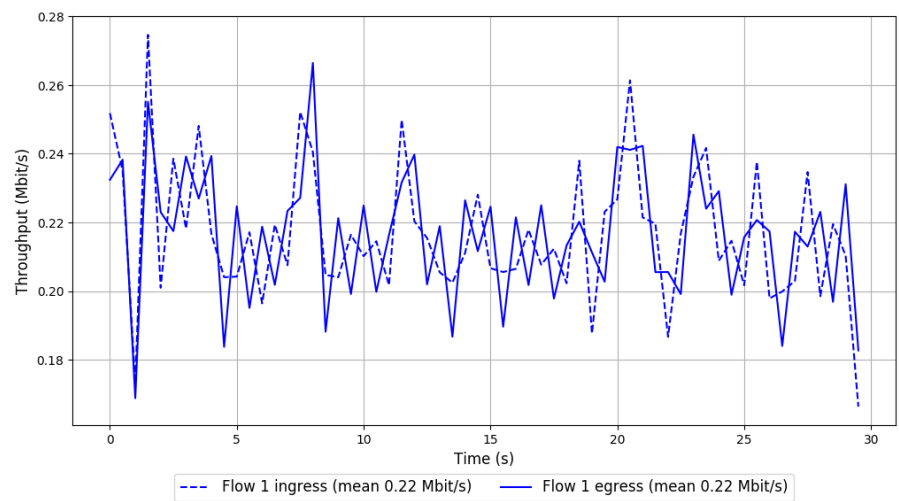
Run 10: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 57.98 ms)

203

```
Run 1: Statistics of Sprout

Start at: Sun, 16 Jul 2017 19:13:55 +0000
End at: Sun, 16 Jul 2017 19:14:25 +0000
Local clock offset: 0.435 ms
Remote clock offset: 0.967 ms
```
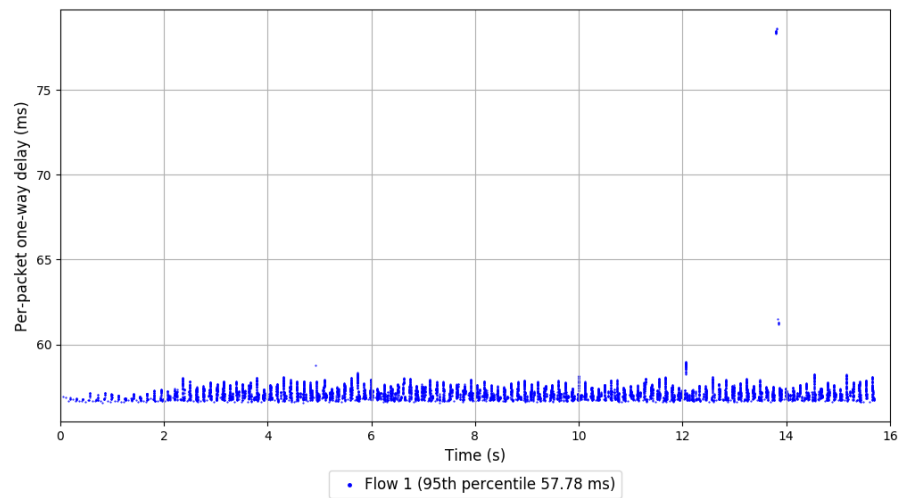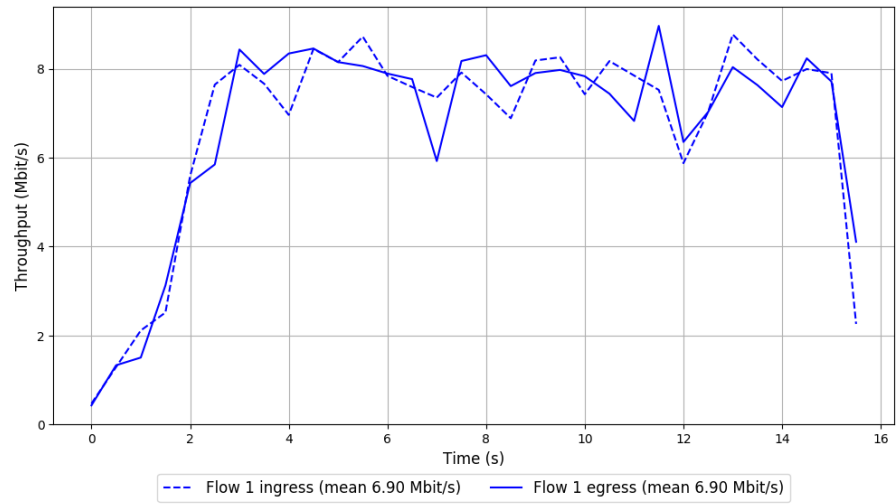
Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: Sun, 16 Jul 2017 19:31:09 +0000
End at: Sun, 16 Jul 2017 19:31:39 +0000
Local clock offset: 0.448 ms
Remote clock offset: 1.174 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:06 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.67 Mbit/s
95th percentile per-packet one-way delay: 72.042 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 6.67 Mbit/s
95th percentile per-packet one-way delay: 72.042 ms
Loss rate: 0.33%
```
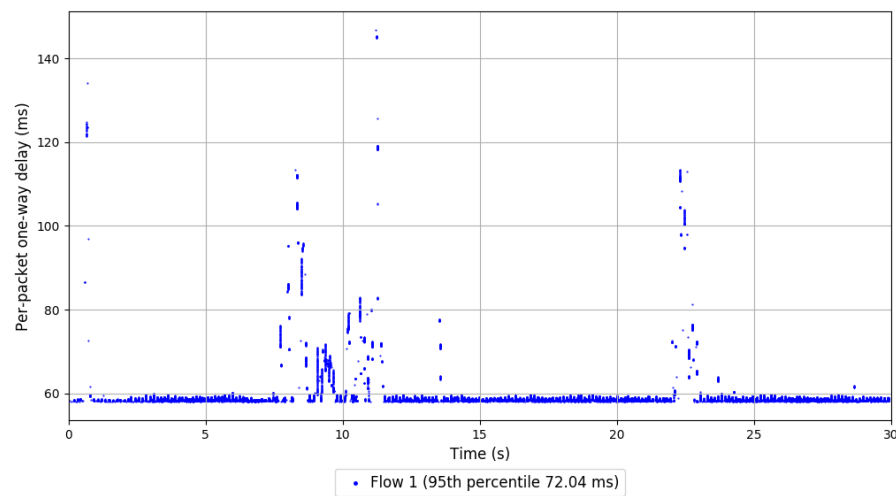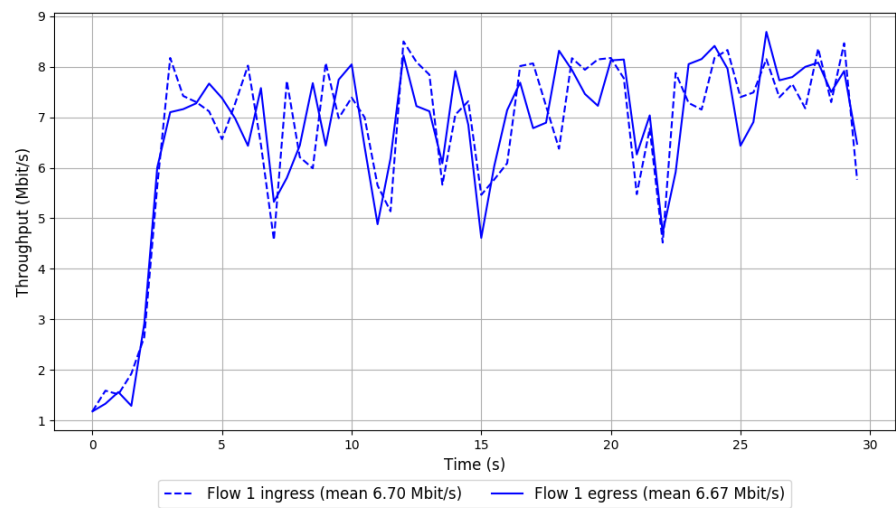
Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: Sun, 16 Jul 2017 19:48:31 +0000
End at: Sun, 16 Jul 2017 19:49:01 +0000
Local clock offset: 0.386 ms
Remote clock offset: 0.611 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:07 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 58.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 58.227 ms
Loss rate: 0.00%
```
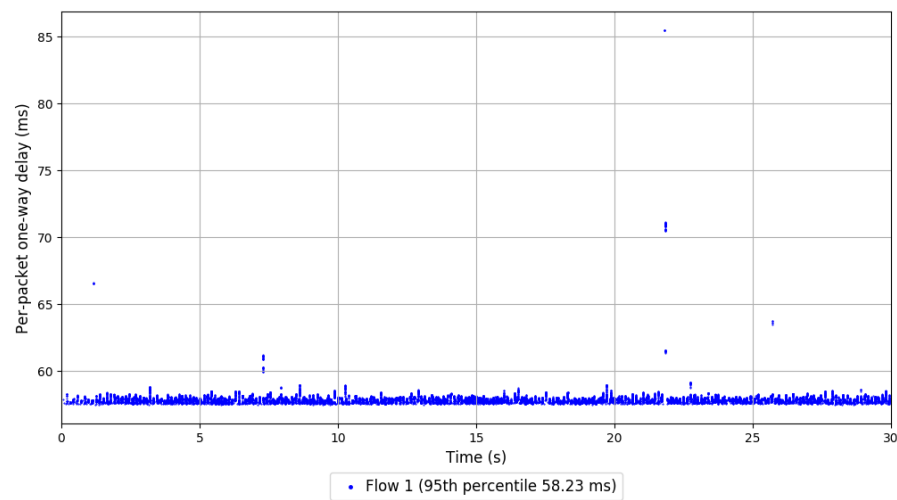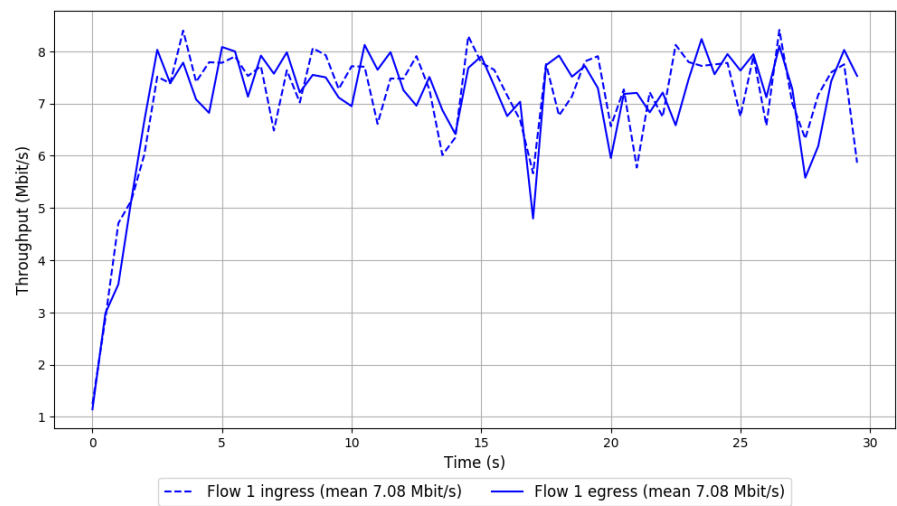
Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: Sun, 16 Jul 2017 20:05:51 +0000
End at: Sun, 16 Jul 2017 20:06:21 +0000
Local clock offset: 0.389 ms
Remote clock offset: 0.594 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:09 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.42 Mbit/s
95th percentile per-packet one-way delay: 57.931 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.42 Mbit/s
95th percentile per-packet one-way delay: 57.931 ms
Loss rate: 0.00%
```
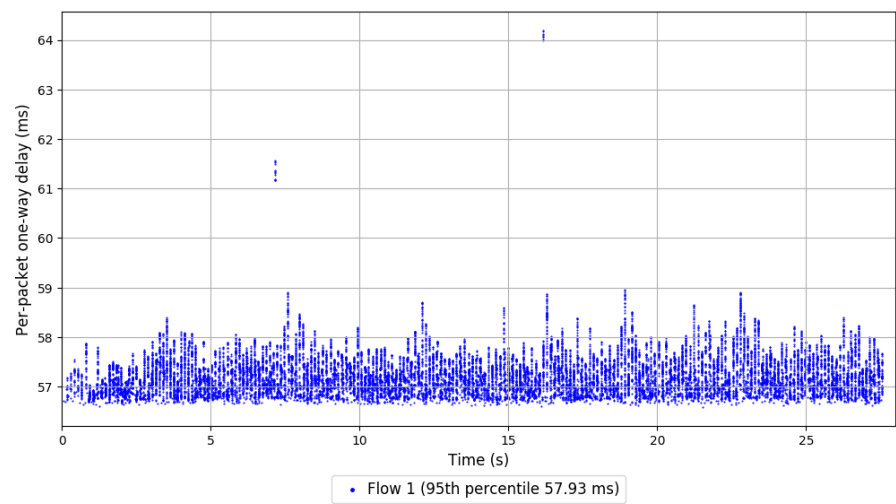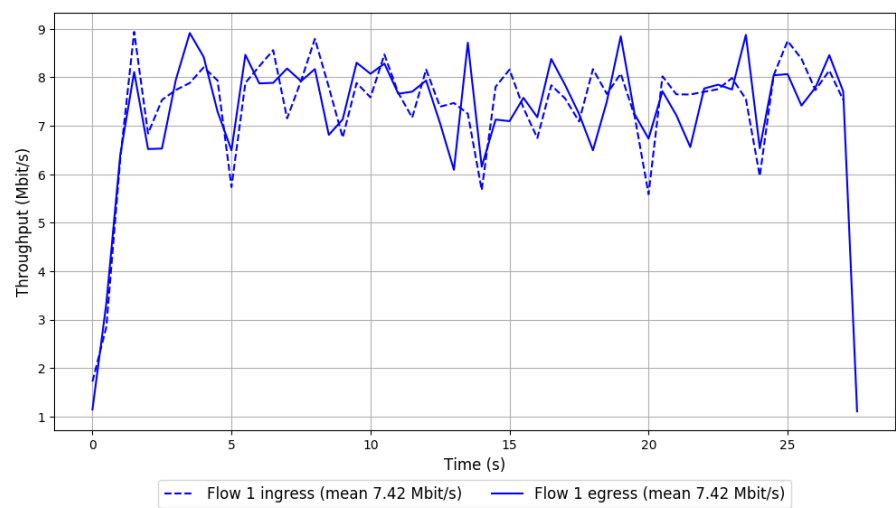
Run 4: Report of Sprout — Data Link
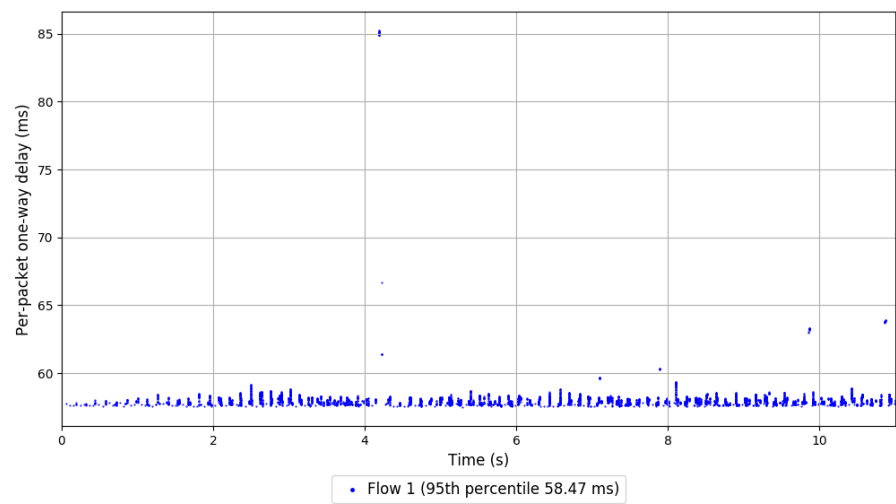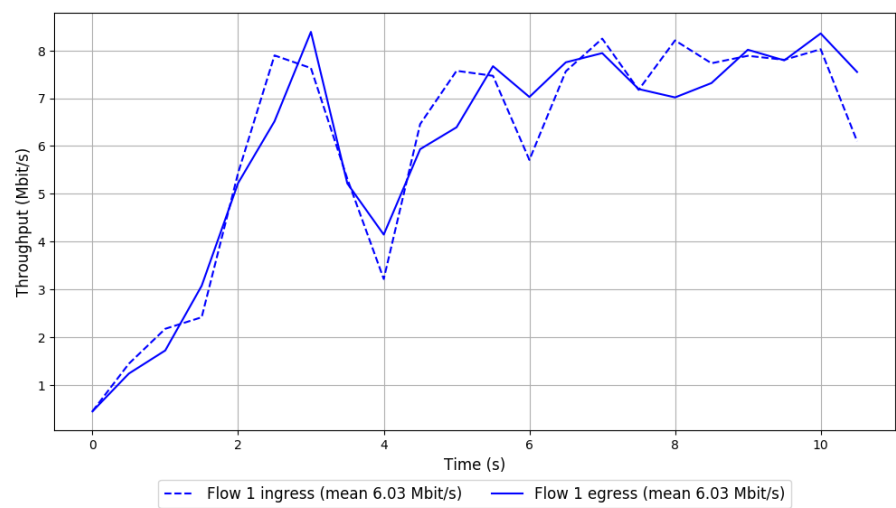
Run 5: Statistics of Sprout

Start at: Sun, 16 Jul 2017 20:20:30 +0000
End at: Sun, 16 Jul 2017 20:21:00 +0000
Local clock offset: 0.389 ms

Run 5: Report of Sprout — Data Link

```
Run 6: Statistics of Sprout

Start at: Sun, 16 Jul 2017 20:35:28 +0000
End at: Sun, 16 Jul 2017 20:35:58 +0000
Local clock offset: 0.391 ms
Remote clock offset: 0.132 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.57 Mbit/s
95th percentile per-packet one-way delay: 59.224 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.57 Mbit/s
95th percentile per-packet one-way delay: 59.224 ms
Loss rate: 0.00%
```
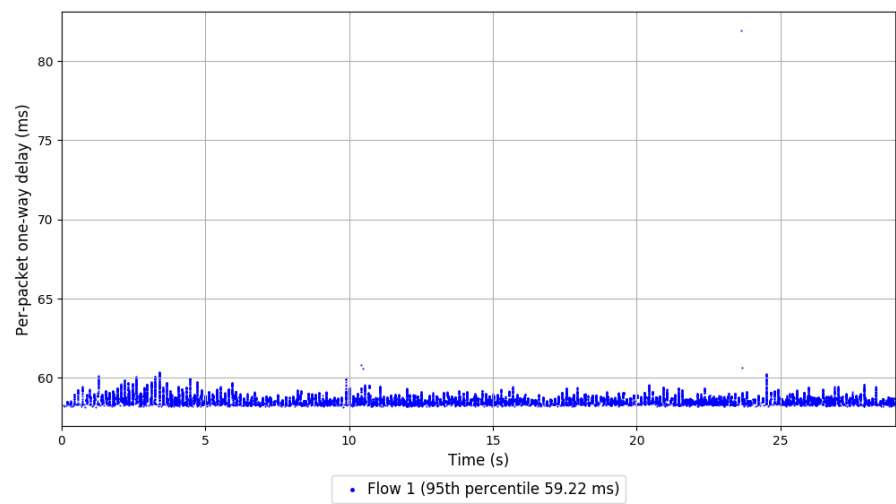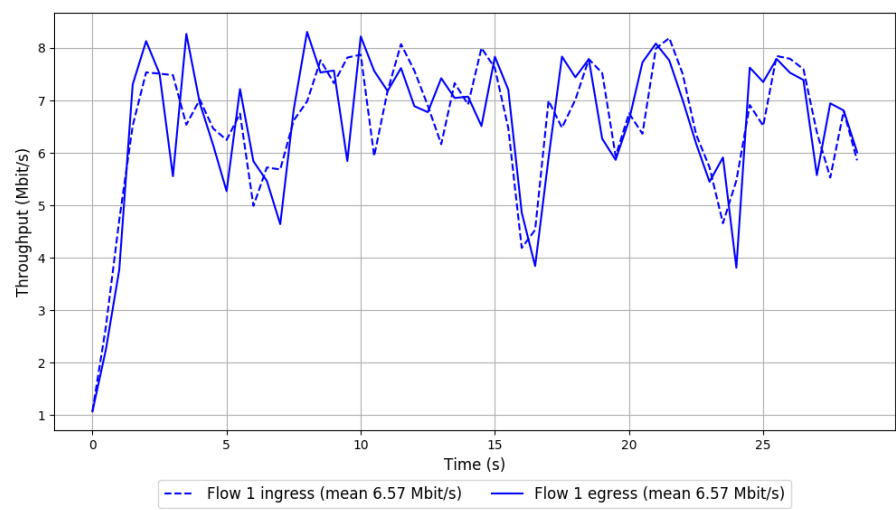
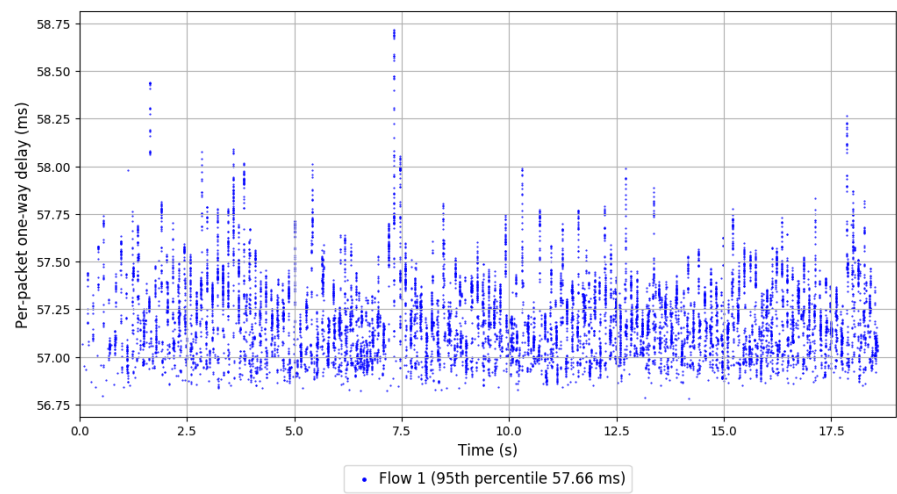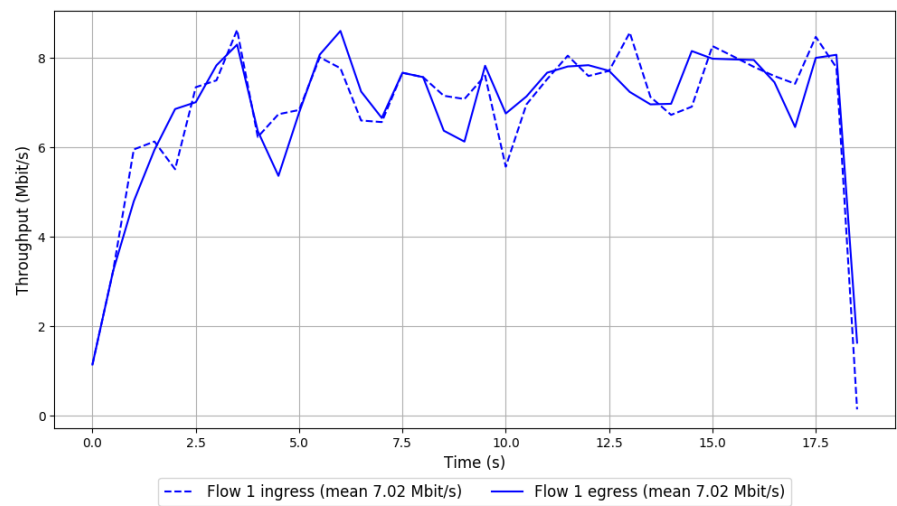Run 6: Report of Sprout — Data Link

```
Run 7: Statistics of Sprout

Start at: Sun, 16 Jul 2017 20:52:49 +0000
End at: Sun, 16 Jul 2017 20:53:19 +0000
Local clock offset: 0.328 ms
Remote clock offset: -0.875 ms
```

Run 7: Report of Sprout — Data Link
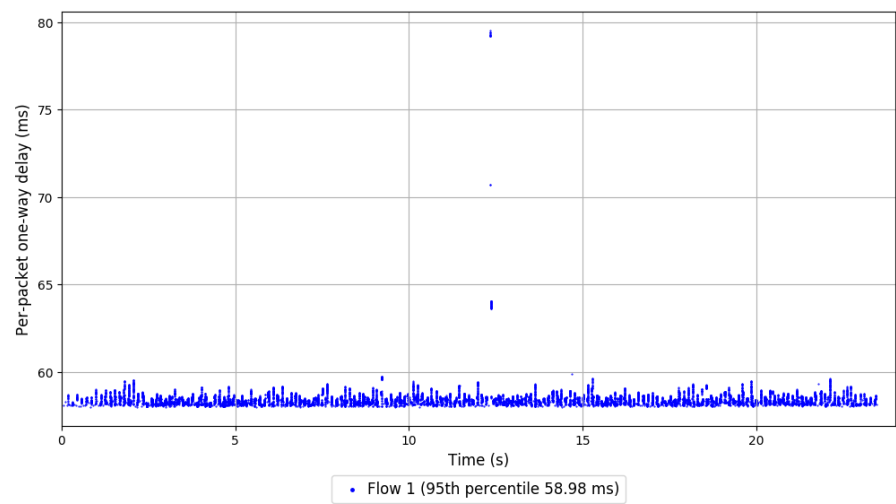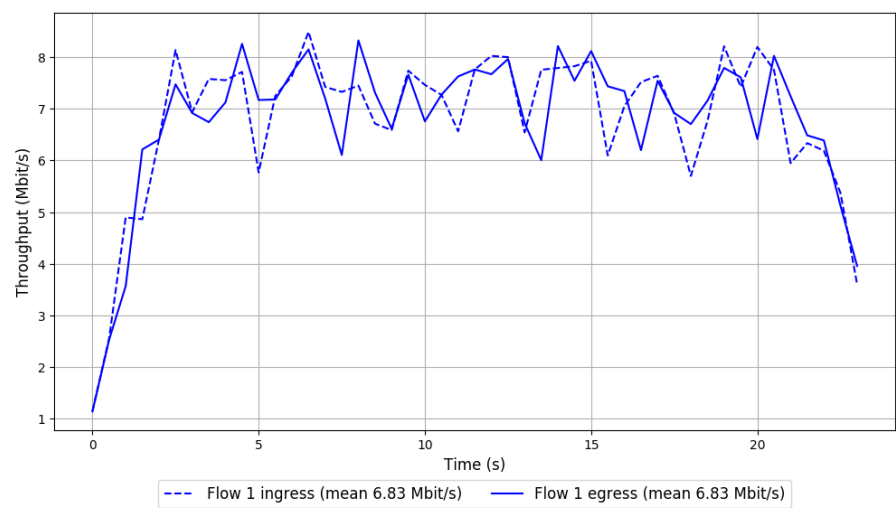
Run 8: Statistics of Sprout

Start at: Sun, 16 Jul 2017 21:10:34 +0000
End at: Sun, 16 Jul 2017 21:11:04 +0000
Local clock offset: 0.395 ms
Remote clock offset: -1.729 ms

Run 8: Report of Sprout — Data Link

Flow 1 ingress (mean 6.83 Mbit/s) --- Flow 1 egress (mean 6.83 Mbit/s)

Flow 1 (95th percentile 58.98 ms)

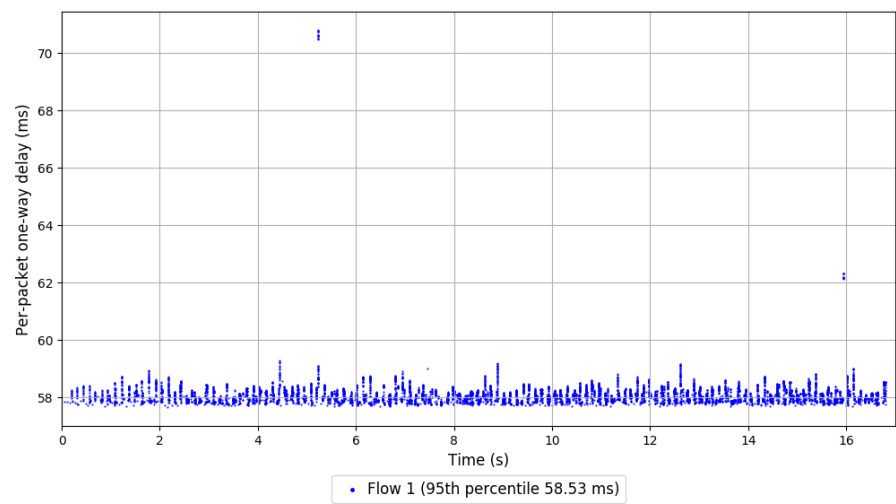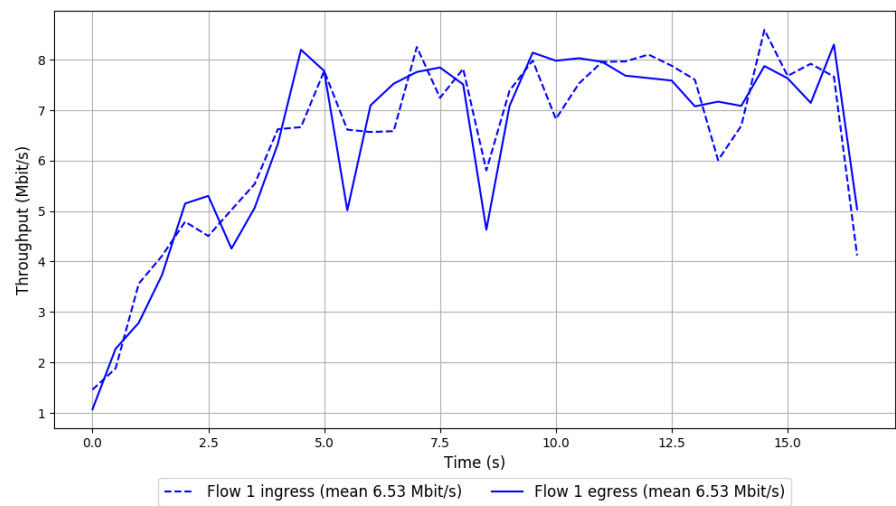Run 9: Statistics of Sprout

Start at: Sun, 16 Jul 2017 21:27:52 +0000
End at: Sun, 16 Jul 2017 21:28:22 +0000
Local clock offset: 0.222 ms
Remote clock offset: -3.214 ms

Run 9: Report of Sprout — Data Link

Flow 1 ingress (mean 6.53 Mbit/s) --- Flow 1 egress (mean 6.53 Mbit/s)

Flow 1 (95th percentile 58.53 ms)

```
Run 10: Statistics of Sprout

Start at: Sun, 16 Jul 2017 21:45:20 +0000
End at: Sun, 16 Jul 2017 21:45:50 +0000
Local clock offset: 0.317 ms
Remote clock offset: -5.882 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:14 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.17 Mbit/s
95th percentile per-packet one-way delay: 58.155 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.17 Mbit/s
95th percentile per-packet one-way delay: 58.155 ms
Loss rate: 0.00%
```
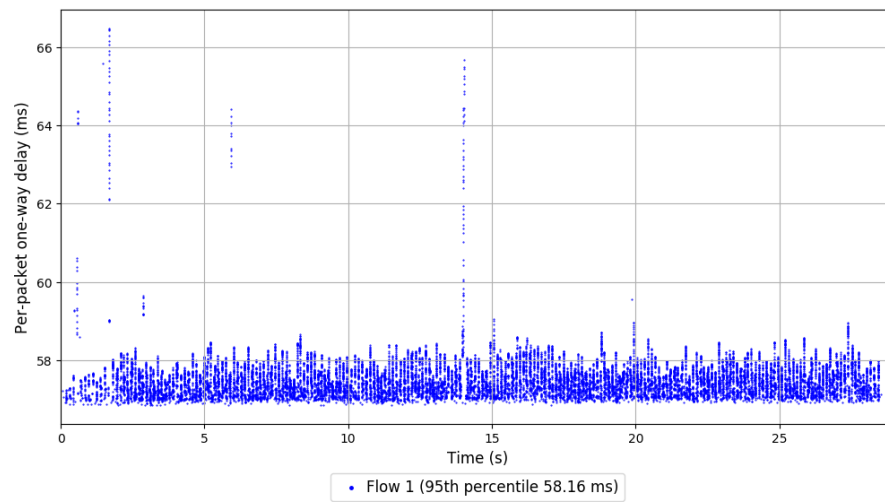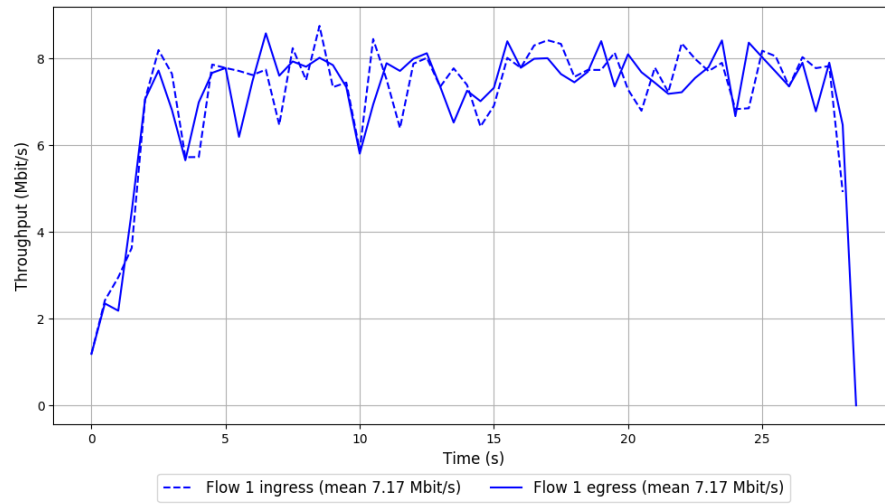
Run 10: Report of Sprout — Data Link

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

Start at: Sun, 16 Jul 2017 19:16:09 +0000
End at: Sun, 16 Jul 2017 19:16:39 +0000
Local clock offset: 0.458 ms
Remote clock offset: 1.076 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:27 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.41 Mbit/s
95th percentile per-packet one-way delay: 82.499 ms
Loss rate: 17.33%
-- Flow 1:
Average throughput: 48.41 Mbit/s
95th percentile per-packet one-way delay: 82.499 ms
Loss rate: 17.33%
```
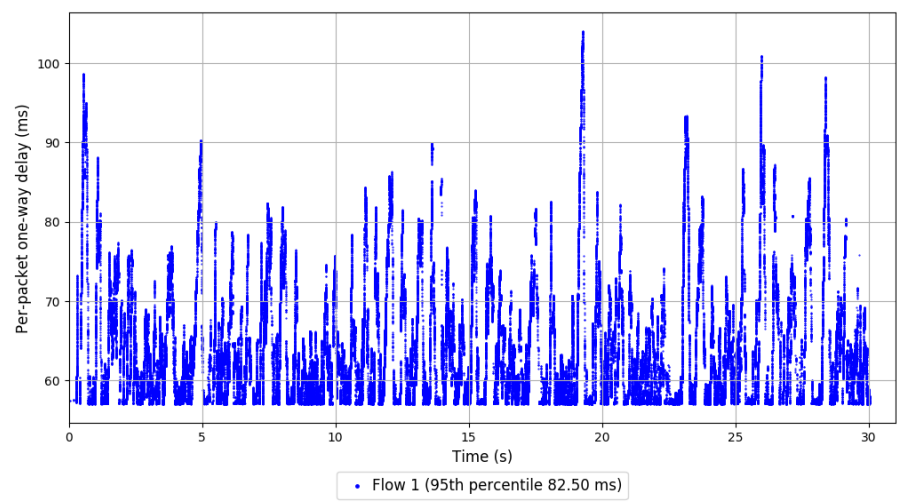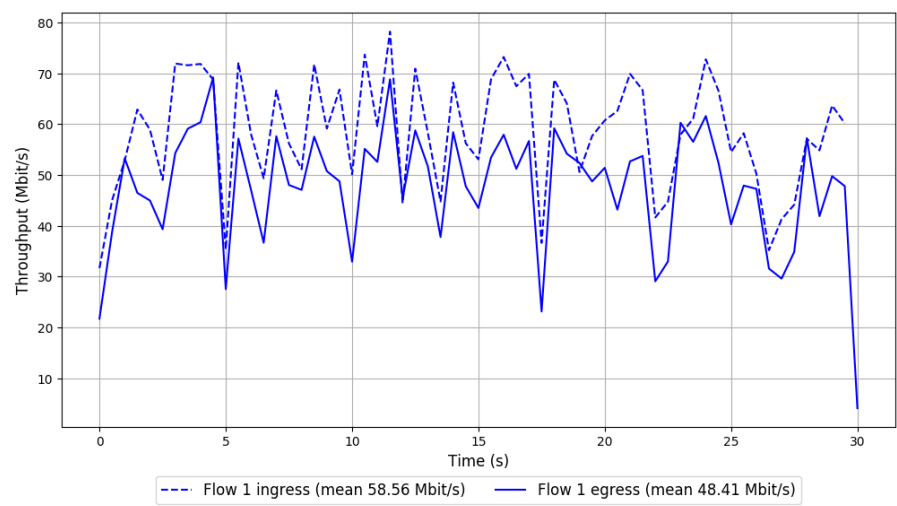
Run 1: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 58.56 Mbit/s)   Flow 1 egress (mean 48.41 Mbit/s)

Flow 1 (95th percentile 82.50 ms)

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

Start at: Sun, 16 Jul 2017 19:33:21 +0000
End at: Sun, 16 Jul 2017 19:33:51 +0000
Local clock offset: 0.37 ms
Remote clock offset: 1.321 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:27 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.62 Mbit/s
95th percentile per-packet one-way delay: 93.448 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 63.62 Mbit/s
95th percentile per-packet one-way delay: 93.448 ms
Loss rate: 2.18%
```
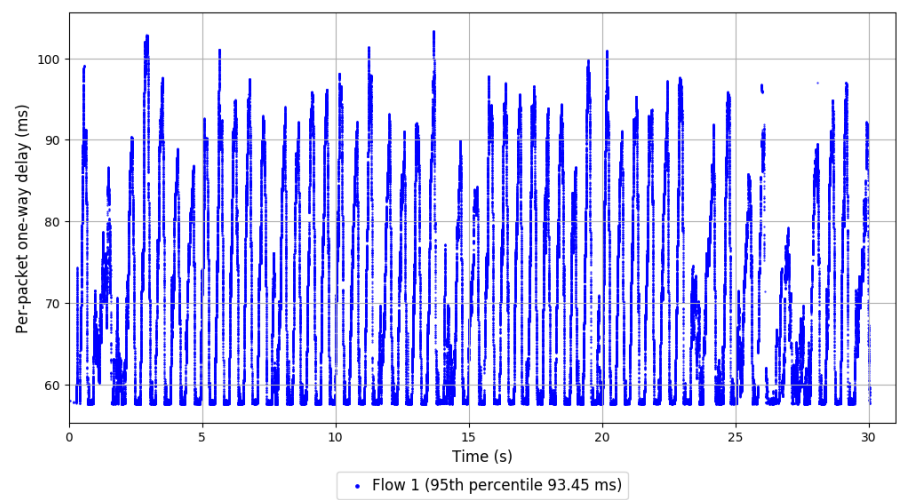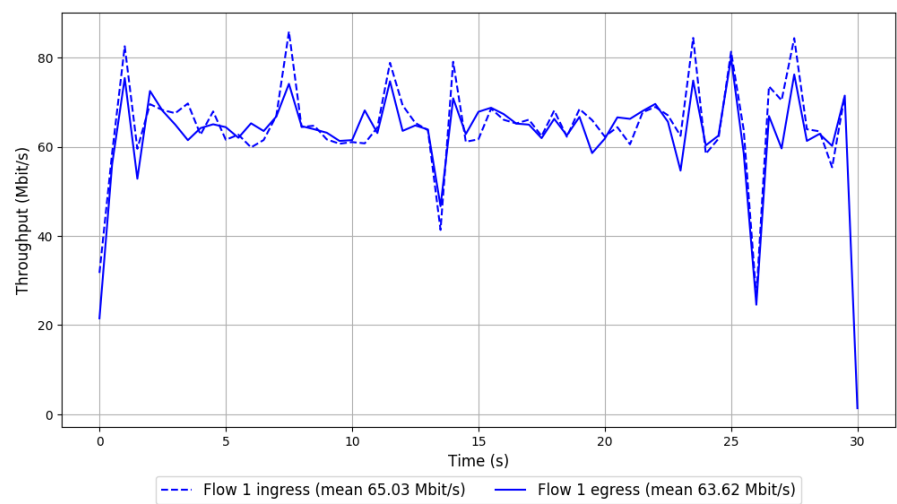
Run 2: Report of TaoVA-100x — Data Link

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

Start at: Sun, 16 Jul 2017 19:50:43 +0000
End at: Sun, 16 Jul 2017 19:51:13 +0000
Local clock offset: 0.457 ms
Remote clock offset: 0.723 ms

# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:42 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.79 Mbit/s
95th percentile per-packet one-way delay: 91.814 ms
Loss rate: 4.54%
-- Flow 1:
Average throughput: 61.79 Mbit/s
95th percentile per-packet one-way delay: 91.814 ms
Loss rate: 4.54%
```
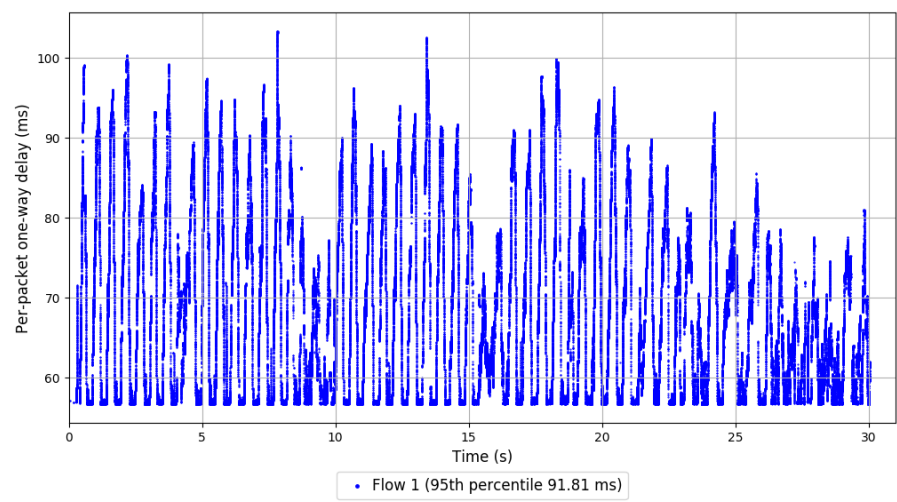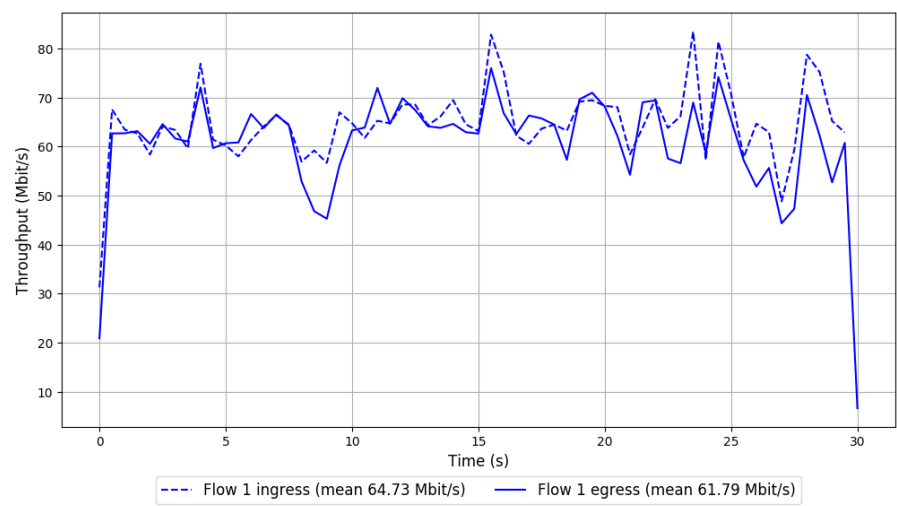
Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 64.73 Mbit/s) ----- Flow 1 egress (mean 61.79 Mbit/s)

Flow 1 (95th percentile 91.81 ms)

229

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

Start at: Sun, 16 Jul 2017 20:08:06 +0000
End at: Sun, 16 Jul 2017 20:08:36 +0000
Local clock offset: 0.351 ms
Remote clock offset: 0.792 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:43 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.88 Mbit/s
95th percentile per-packet one-way delay: 85.628 ms
Loss rate: 12.26%
-- Flow 1:
Average throughput: 59.88 Mbit/s
95th percentile per-packet one-way delay: 85.628 ms
Loss rate: 12.26%
```
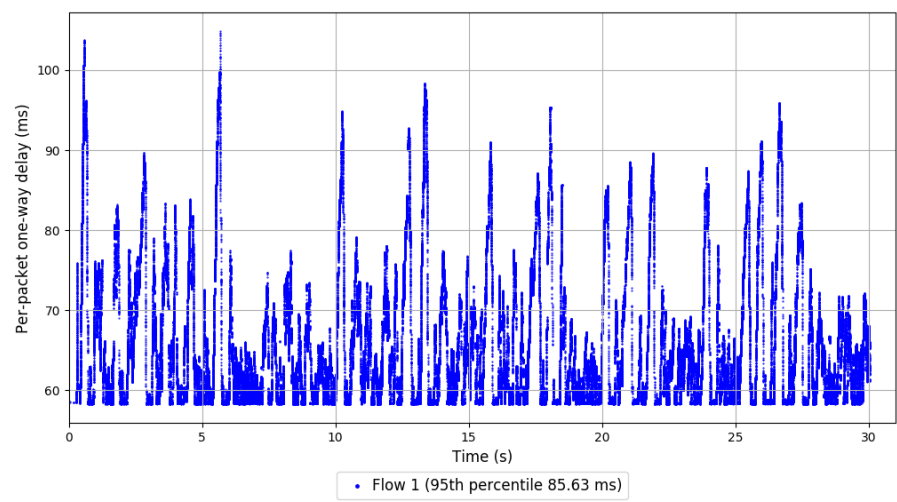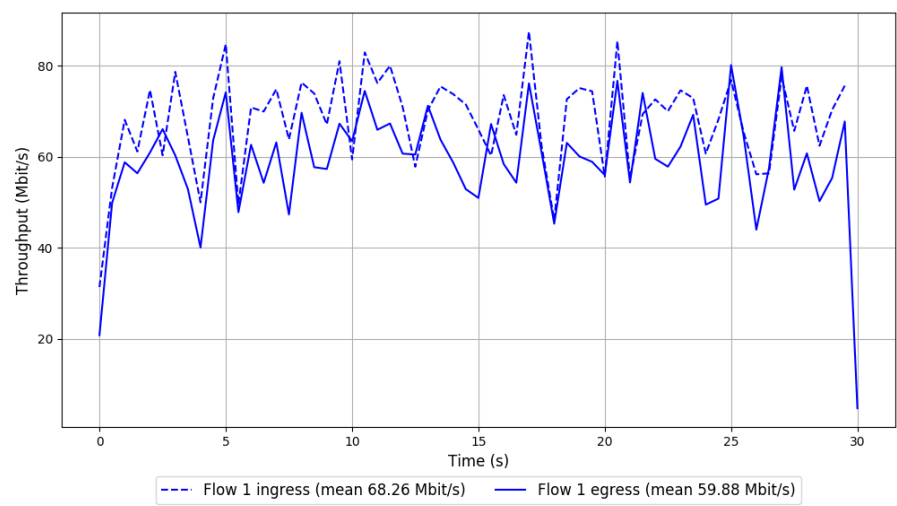
Run 4: Report of TaoVA-100x — Data Link

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

Start at: Sun, 16 Jul 2017 20:22:15 +0000
End at: Sun, 16 Jul 2017 20:22:45 +0000
Local clock offset: 0.415 ms

# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.52 Mbit/s
95th percentile per-packet one-way delay: 90.619 ms
Loss rate: 4.94%
-- Flow 1:
Average throughput: 63.52 Mbit/s
95th percentile per-packet one-way delay: 90.619 ms
Loss rate: 4.94%
```
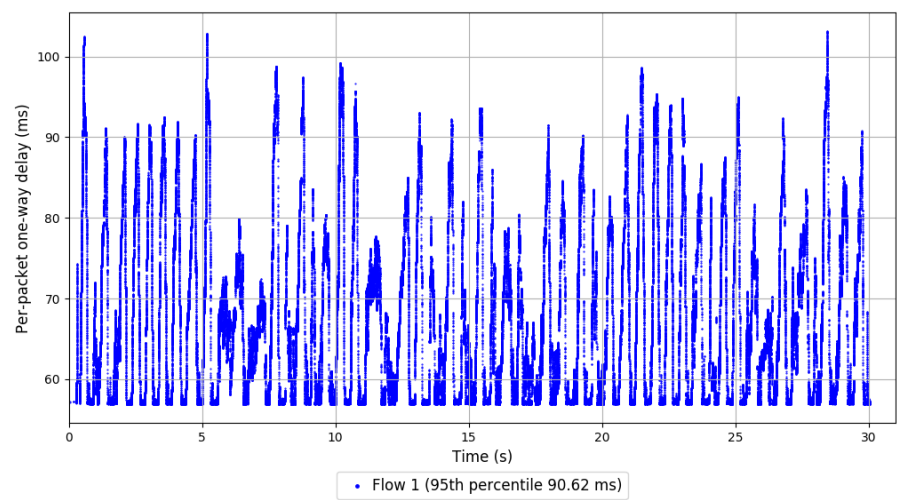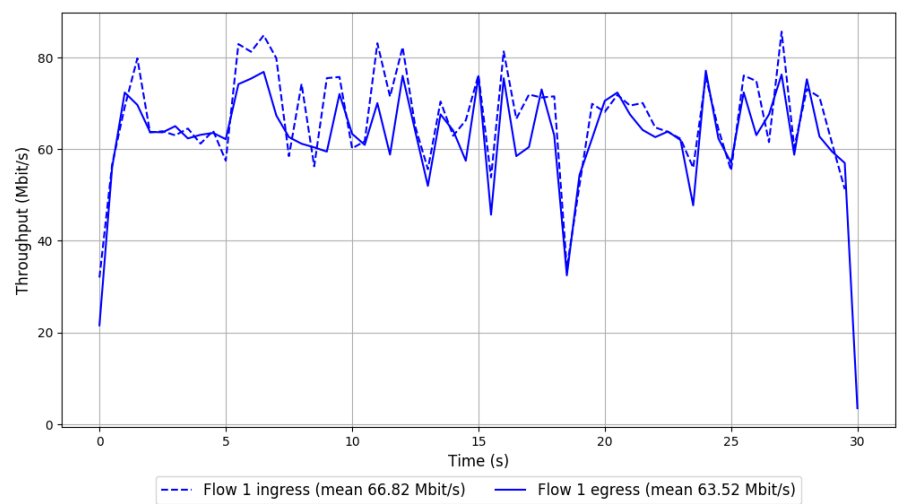
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 66.82 Mbit/s)   Flow 1 egress (mean 63.52 Mbit/s)

Flow 1 (95th percentile 90.62 ms)

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

Start at: Sun, 16 Jul 2017 20:37:40 +0000
End at: Sun, 16 Jul 2017 20:38:10 +0000
Local clock offset: 0.312 ms
Remote clock offset: -0.164 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:12:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.65 Mbit/s
95th percentile per-packet one-way delay: 93.607 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 60.65 Mbit/s
95th percentile per-packet one-way delay: 93.607 ms
Loss rate: 1.18%
```
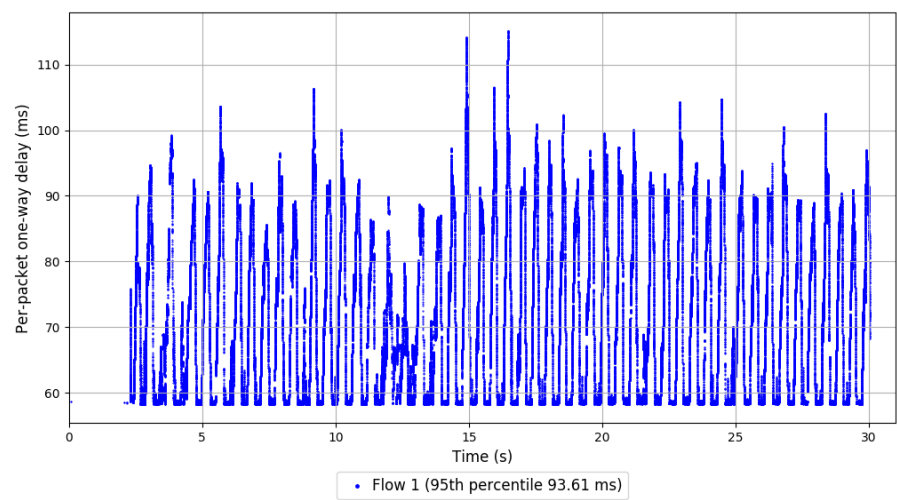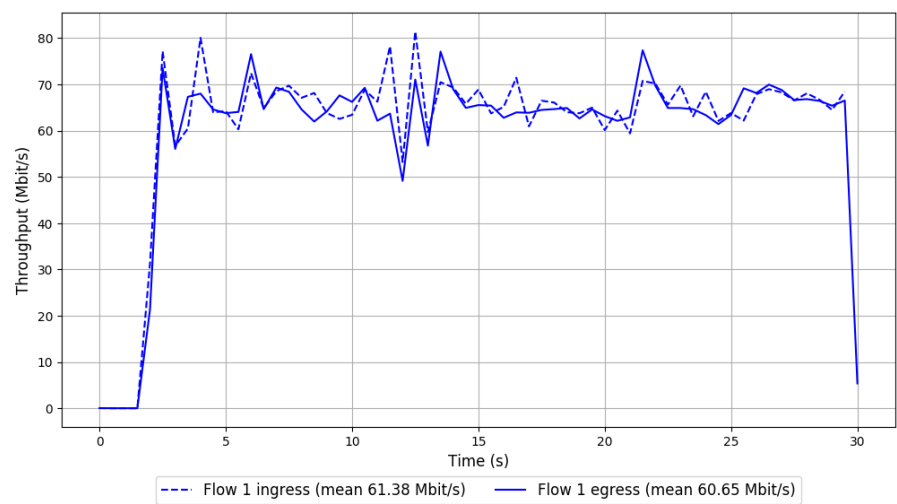
Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 61.38 Mbit/s)   Flow 1 egress (mean 60.65 Mbit/s)

Flow 1 (95th percentile 93.61 ms)

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

Start at: Sun, 16 Jul 2017 20:55:03 +0000
End at: Sun, 16 Jul 2017 20:55:34 +0000
Local clock offset: 0.309 ms
Remote clock offset: -0.82 ms
```
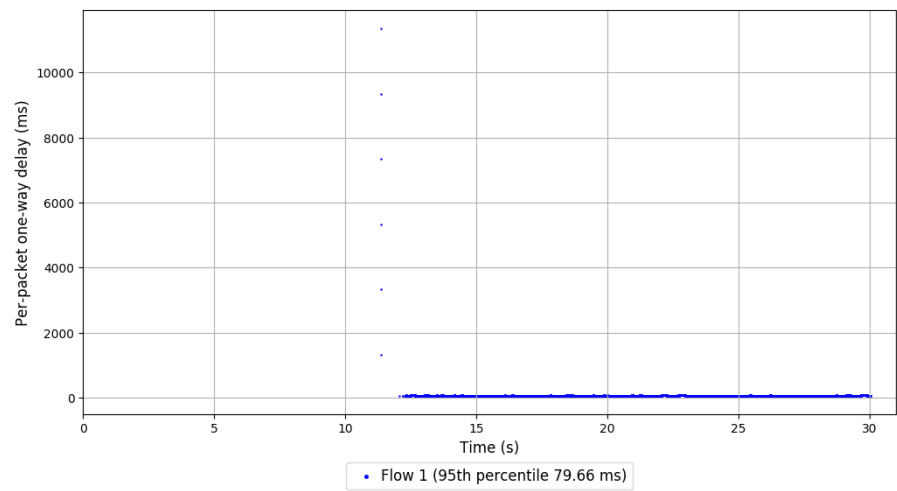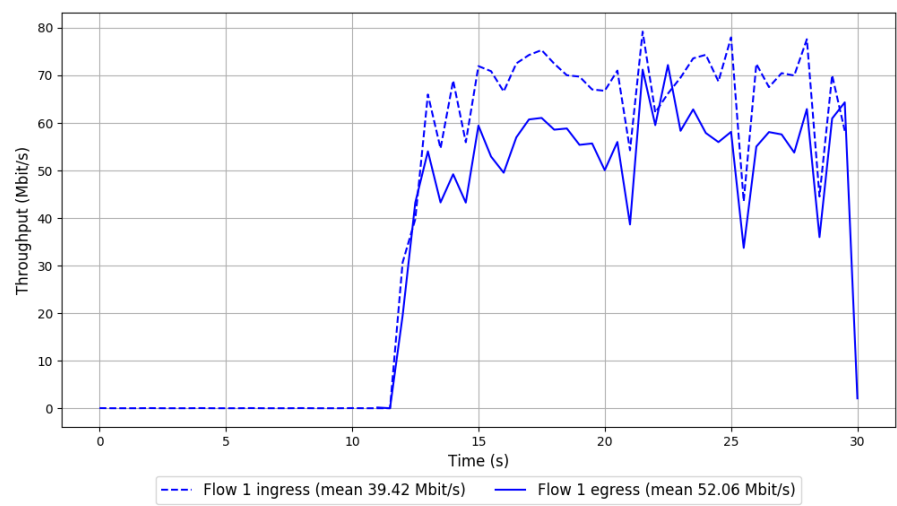
Run 7: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 39.42 Mbit/s)   Flow 1 egress (mean 52.06 Mbit/s)

Flow 1 (95th percentile 79.66 ms)

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

Start at: Sun, 16 Jul 2017 21:12:49 +0000
End at: Sun, 16 Jul 2017 21:13:19 +0000
Local clock offset: 0.36 ms
Remote clock offset: -2.019 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:13:10 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.39 Mbit/s
95th percentile per-packet one-way delay: 85.028 ms
Loss rate: 11.52%
-- Flow 1:
Average throughput: 50.39 Mbit/s
95th percentile per-packet one-way delay: 85.028 ms
Loss rate: 11.52%
```
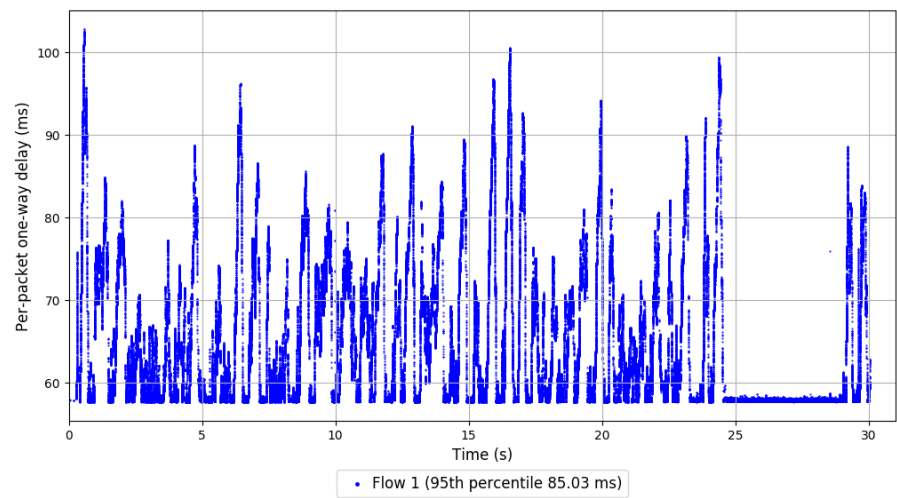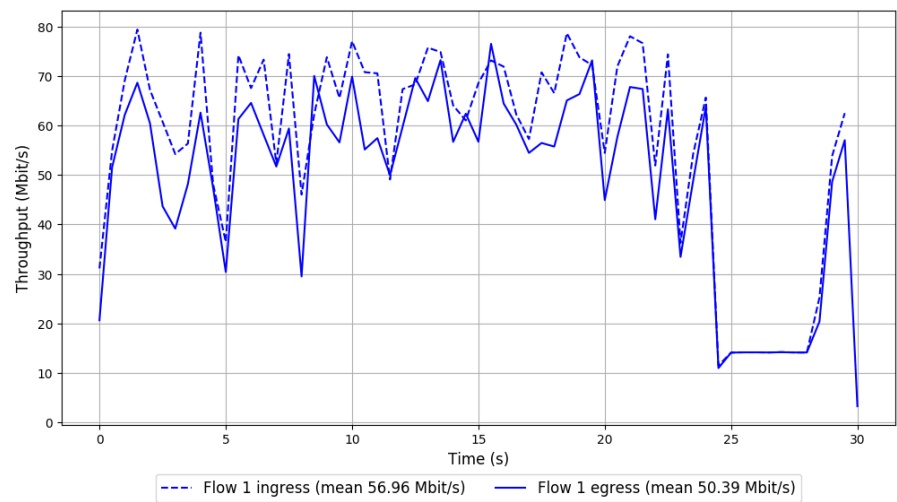
Run 8: Report of TaoVA-100x — Data Link

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

Start at: Sun, 16 Jul 2017 21:30:08 +0000
End at: Sun, 16 Jul 2017 21:30:38 +0000
Local clock offset: 0.252 ms
Remote clock offset: -3.652 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:13:25 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.60 Mbit/s
95th percentile per-packet one-way delay: 97.914 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 61.60 Mbit/s
95th percentile per-packet one-way delay: 97.914 ms
Loss rate: 1.37%
```
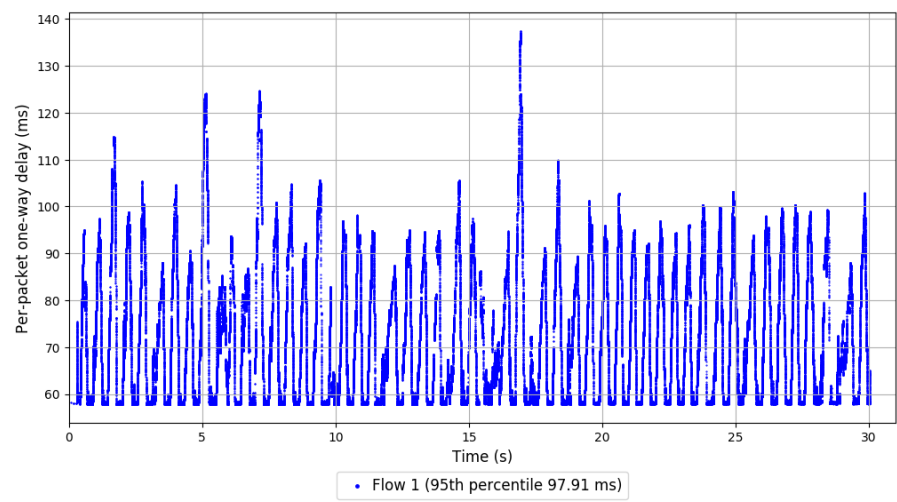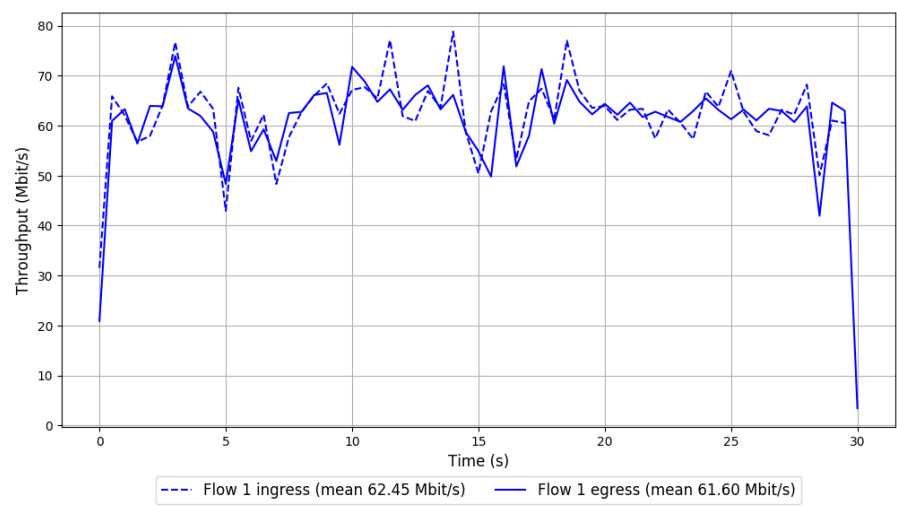
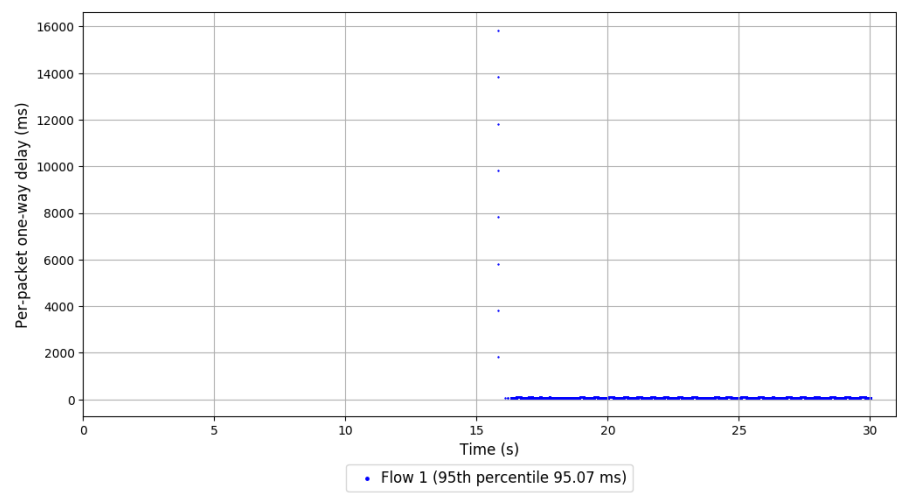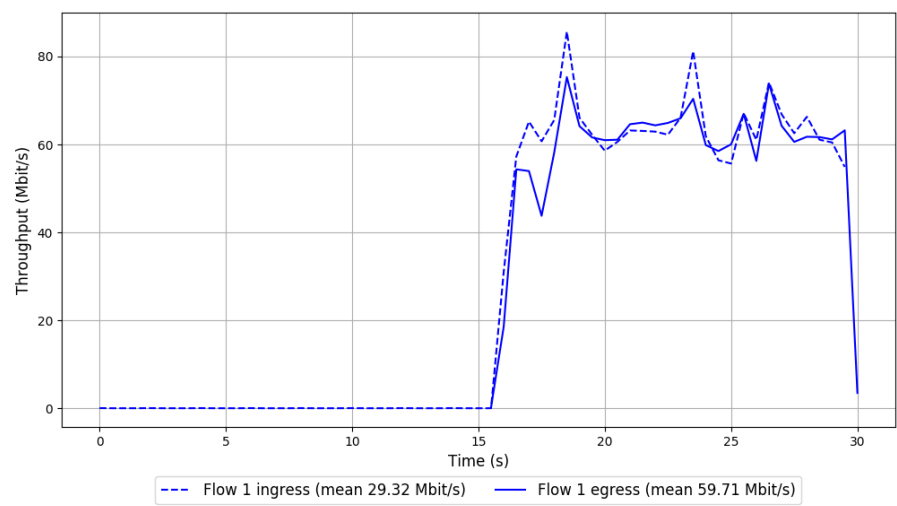# Run 9: Report of TaoVA-100x — Data Link

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

Start at: Sun, 16 Jul 2017 21:47:35 +0000
End at: Sun, 16 Jul 2017 21:48:05 +0000
Local clock offset: 0.36 ms
Remote clock offset: -5.775 ms
```

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

Flow 1 ingress (mean 29.32 Mbit/s)   Flow 1 egress (mean 59.71 Mbit/s)

Flow 1 (95th percentile 95.07 ms)

```
Run 1: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 19:10:25 +0000
End at: Sun, 16 Jul 2017 19:10:55 +0000
Local clock offset: 0.419 ms
Remote clock offset: 1.016 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:13:25 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.19 Mbit/s
95th percentile per-packet one-way delay: 84.309 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 28.19 Mbit/s
95th percentile per-packet one-way delay: 84.309 ms
Loss rate: 0.05%
```
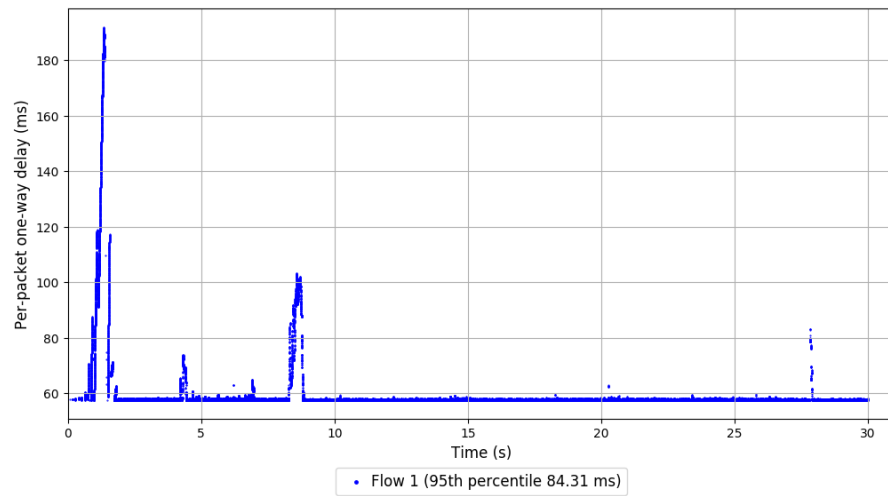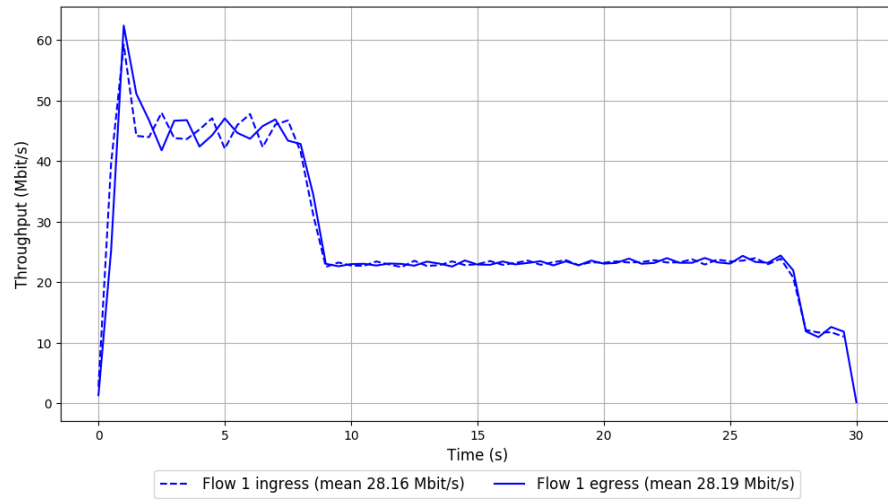
Run 1: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 28.16 Mbit/s)   Flow 1 egress (mean 28.19 Mbit/s)

Flow 1 (95th percentile 84.31 ms)
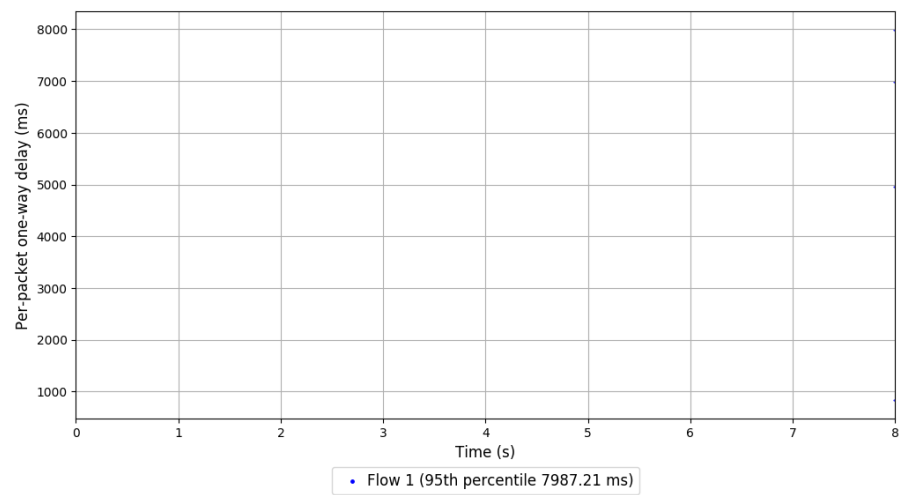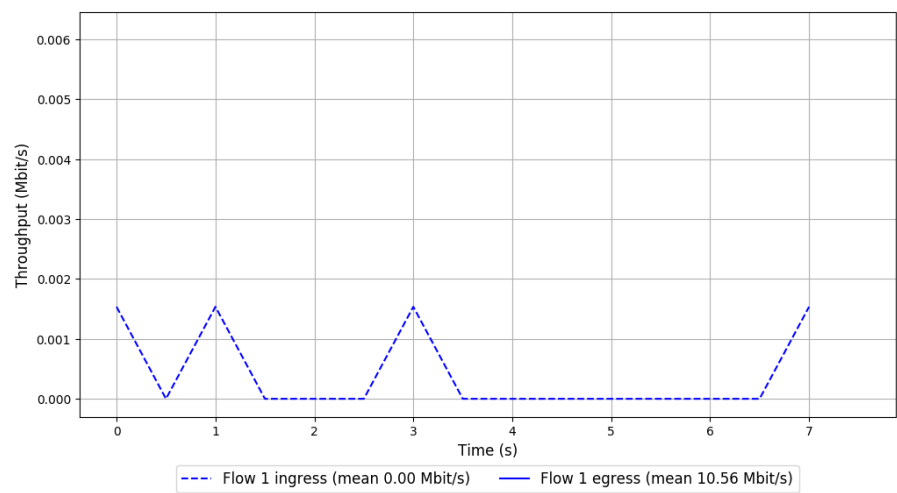
Run 2: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 19:27:41 +0000
End at: Sun, 16 Jul 2017 19:28:11 +0000
Local clock offset: 0.468 ms
Remote clock offset: 1.309 ms

Run 2: Report of TCP Vegas — Data Link
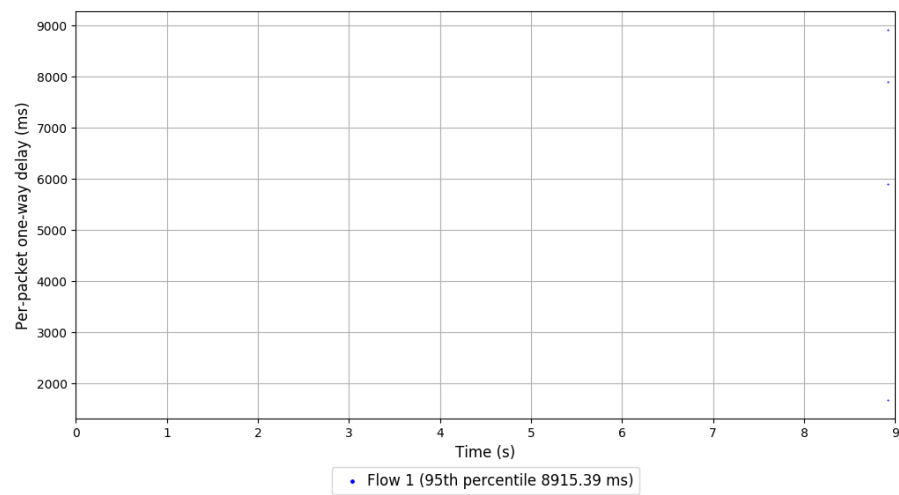

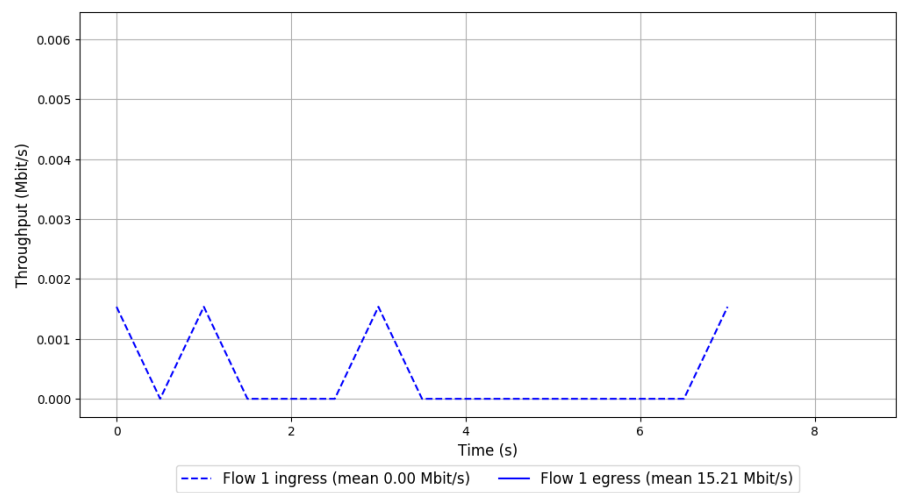

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Run 3: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 19:44:59 +0000
End at: Sun, 16 Jul 2017 19:45:29 +0000
Local clock offset: 0.446 ms
Remote clock offset: 0.914 ms

Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 0.00 Mbit/s) —— Flow 1 egress (mean 15.21 Mbit/s)

• Flow 1 (95th percentile 8915.39 ms)

```
Run 4: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 20:02:23 +0000
End at: Sun, 16 Jul 2017 20:02:53 +0000
Local clock offset: 0.361 ms
Remote clock offset: 0.782 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:13:25 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 59.157 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 59.157 ms
Loss rate: 0.01%
```
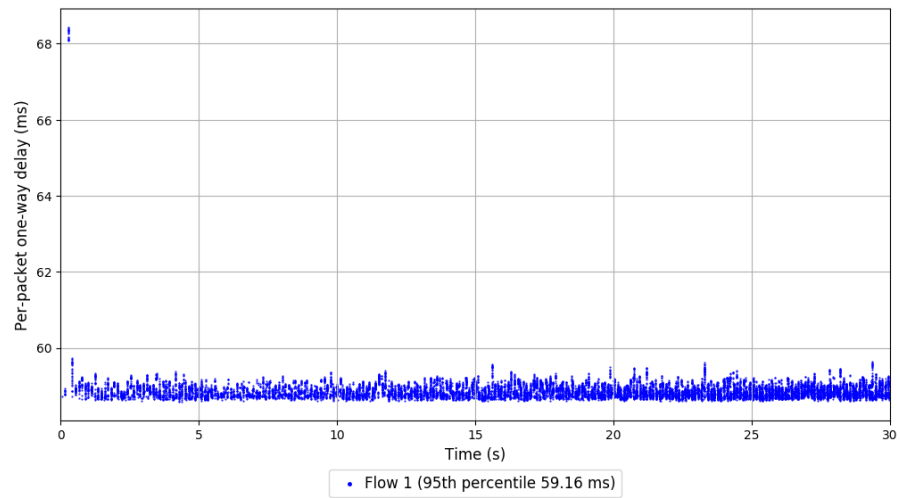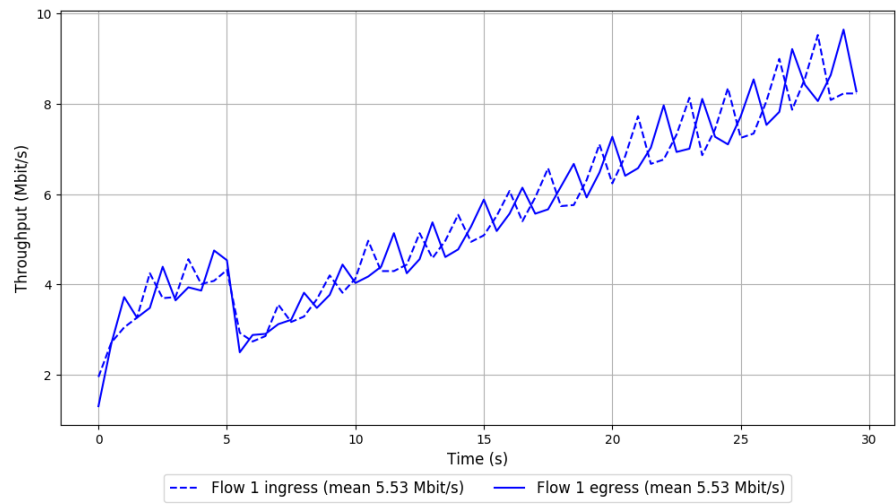
Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 20:17:45 +0000
End at: Sun, 16 Jul 2017 20:18:15 +0000
Local clock offset: 0.32 ms

# Below is generated by plot.py at Mon, 17 Jul 2017 01:13:28 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.07 Mbit/s
95th percentile per-packet one-way delay: 95.681 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 25.07 Mbit/s
95th percentile per-packet one-way delay: 95.681 ms
Loss rate: 0.62%
```
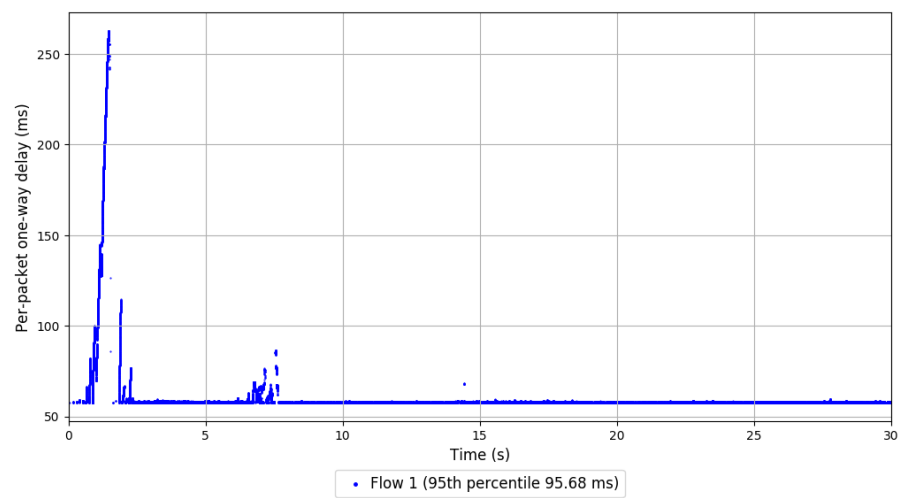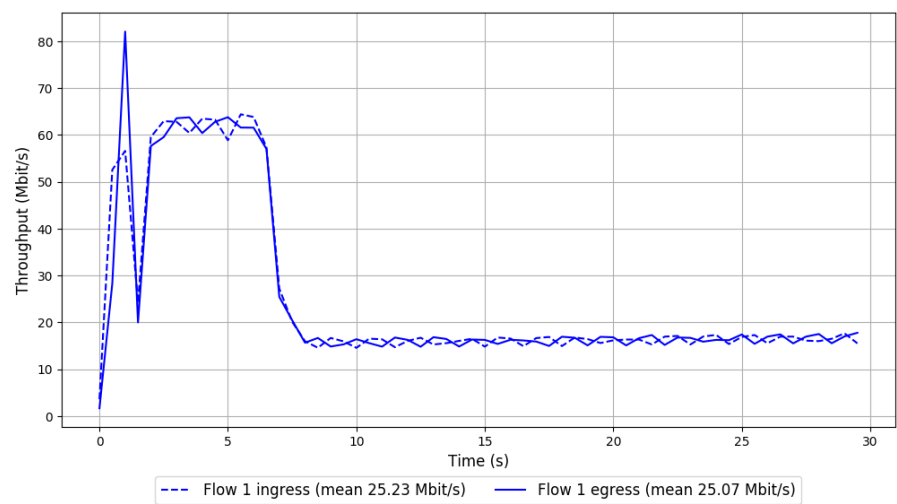
Run 5: Report of TCP Vegas — Data Link

```
Run 6: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 20:31:57 +0000
End at: Sun, 16 Jul 2017 20:32:27 +0000
Local clock offset: 0.391 ms
Remote clock offset: 0.429 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:13:33 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.04 Mbit/s
95th percentile per-packet one-way delay: 87.336 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 60.04 Mbit/s
95th percentile per-packet one-way delay: 87.336 ms
Loss rate: 0.33%
```
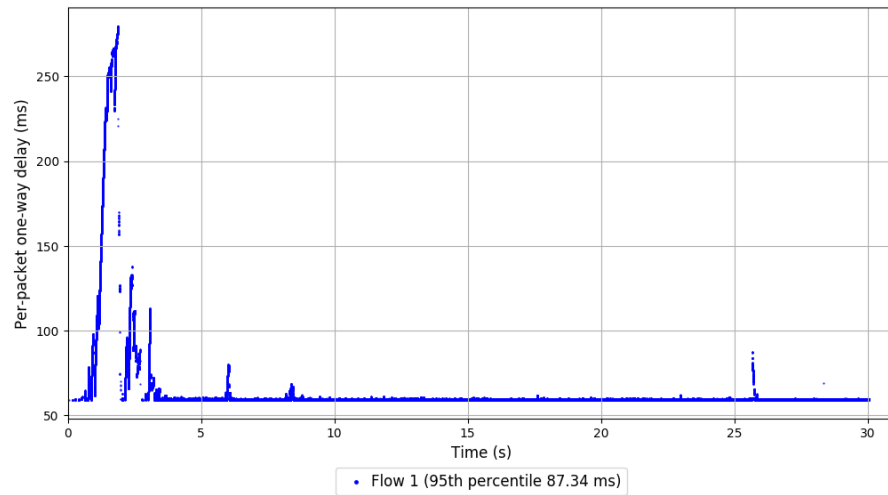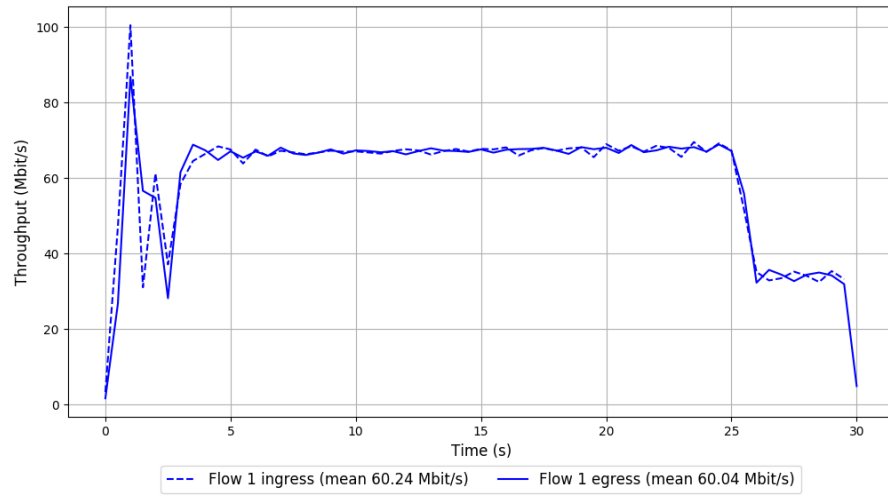
Run 6: Report of TCP Vegas — Data Link

```
Run 7: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 20:49:17 +0000
End at: Sun, 16 Jul 2017 20:49:47 +0000
Local clock offset: 0.336 ms
Remote clock offset: -0.323 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:13:36 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.33 Mbit/s
95th percentile per-packet one-way delay: 115.645 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 63.33 Mbit/s
95th percentile per-packet one-way delay: 115.645 ms
Loss rate: 0.15%
```
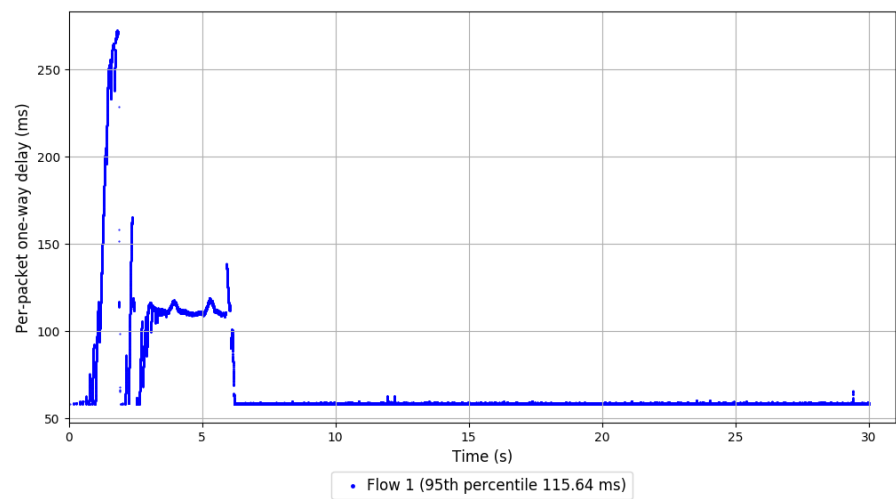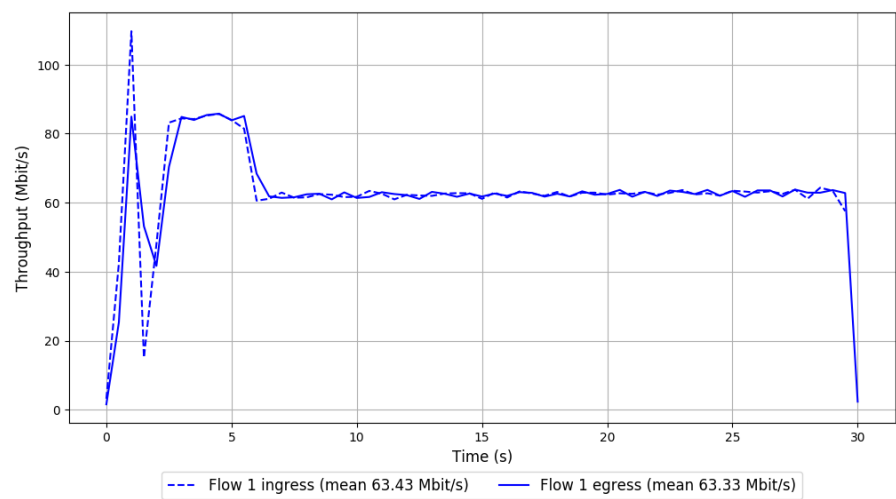
Run 7: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 63.43 Mbit/s)   Flow 1 egress (mean 63.33 Mbit/s)

Flow 1 (95th percentile 115.64 ms)

257

```
Run 8: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 21:07:01 +0000
End at: Sun, 16 Jul 2017 21:07:31 +0000
Local clock offset: 0.327 ms
Remote clock offset: -1.908 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:13:40 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.78 Mbit/s
95th percentile per-packet one-way delay: 61.305 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 44.78 Mbit/s
95th percentile per-packet one-way delay: 61.305 ms
Loss rate: 0.03%
```
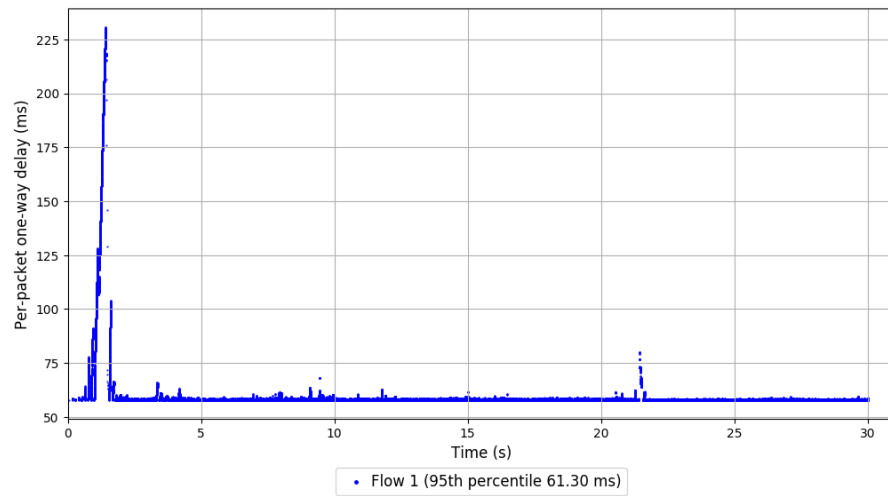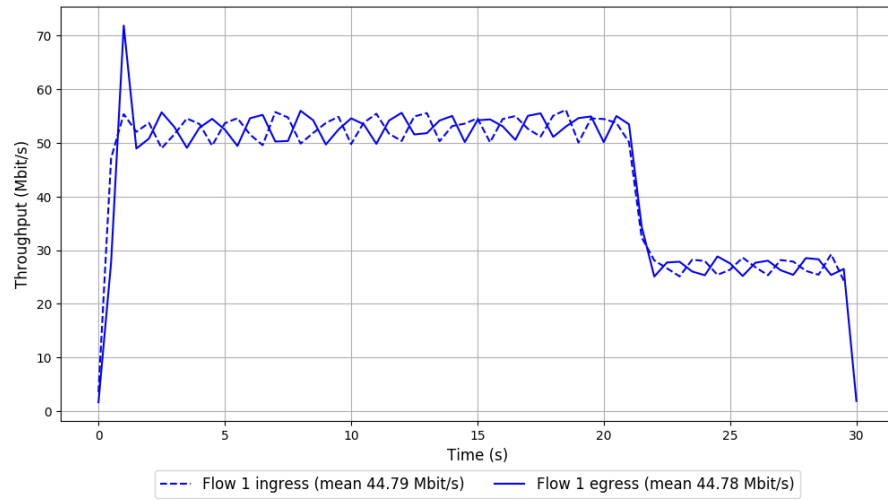
Run 8: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 44.79 Mbit/s) ----- Flow 1 egress (mean 44.78 Mbit/s)

Flow 1 (95th percentile 61.30 ms)

259

```
Run 9: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 21:24:23 +0000
End at: Sun, 16 Jul 2017 21:24:53 +0000
Local clock offset: 0.272 ms
Remote clock offset: -2.962 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:13:44 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.15 Mbit/s
95th percentile per-packet one-way delay: 58.970 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 55.15 Mbit/s
95th percentile per-packet one-way delay: 58.970 ms
Loss rate: 0.03%
```
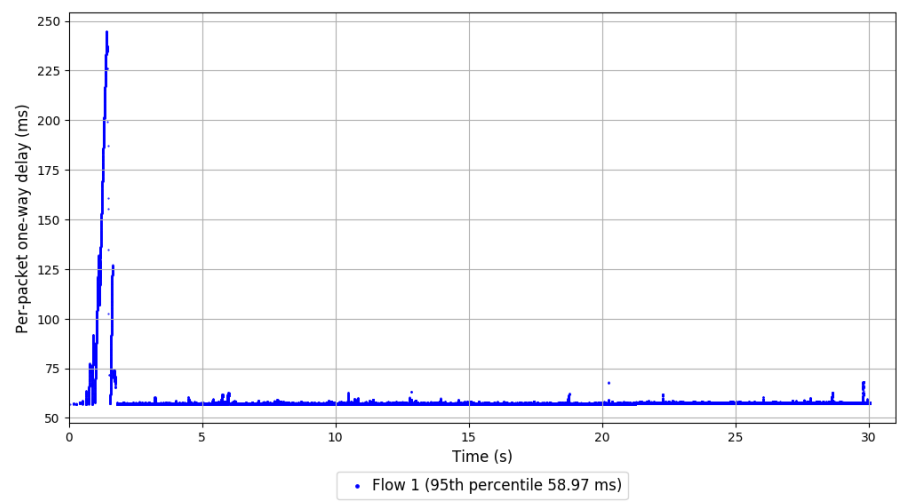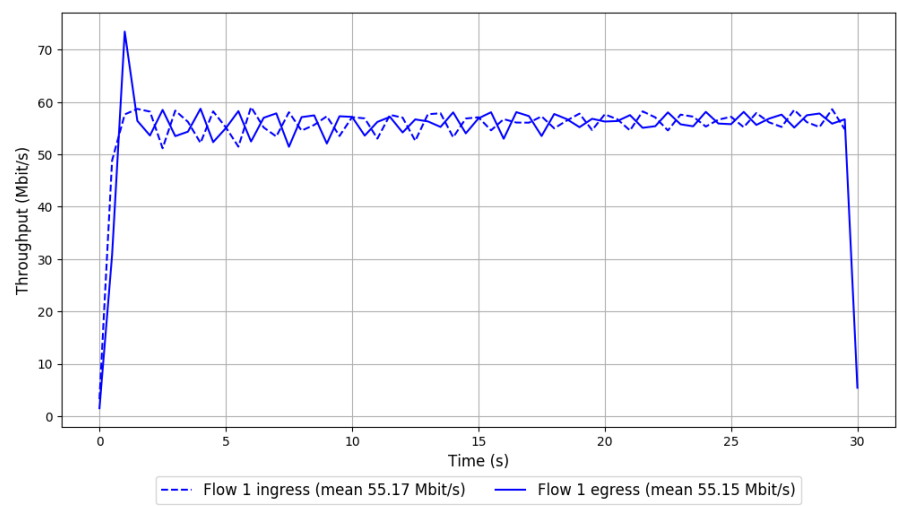
Run 9: Report of TCP Vegas — Data Link

```
Run 10: Statistics of TCP Vegas

Start at: Sun, 16 Jul 2017 21:41:52 +0000
End at: Sun, 16 Jul 2017 21:42:22 +0000
Local clock offset: 0.257 ms
Remote clock offset: -5.079 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:13:48 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.71 Mbit/s
95th percentile per-packet one-way delay: 60.464 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 52.71 Mbit/s
95th percentile per-packet one-way delay: 60.464 ms
Loss rate: 0.02%
```
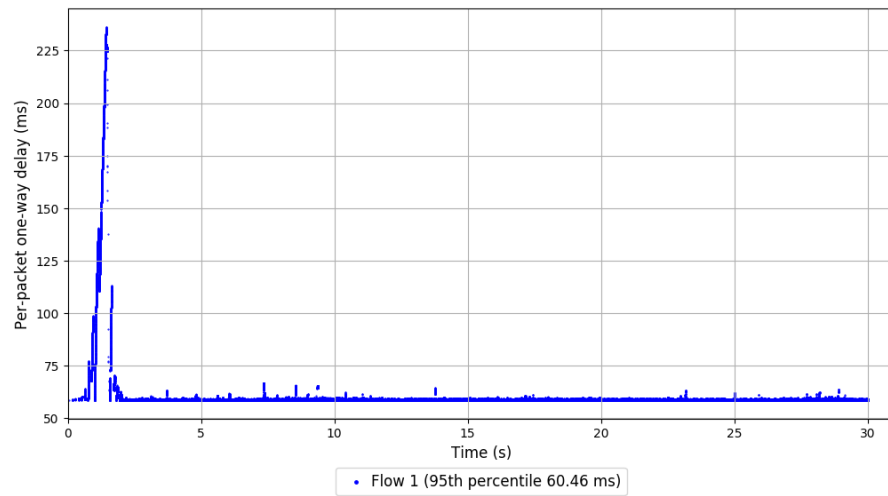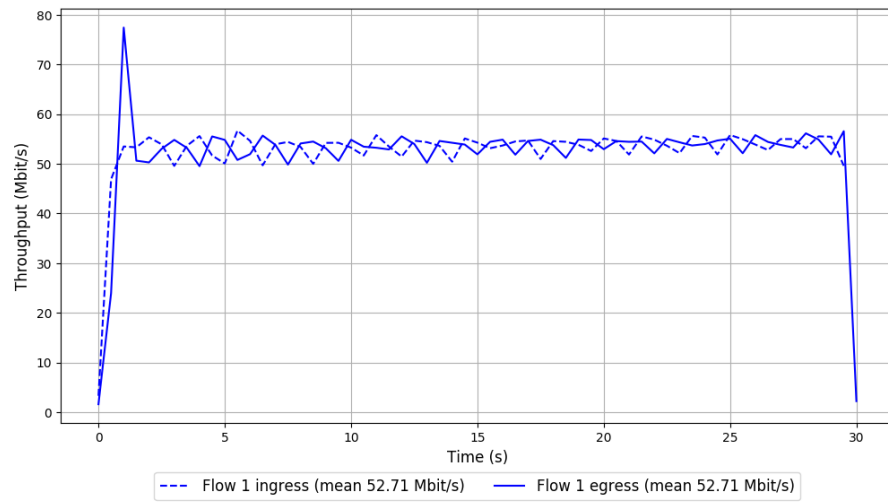
Run 10: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 52.71 Mbit/s)   Flow 1 egress (mean 52.71 Mbit/s)

Flow 1 (95th percentile 60.46 ms)

```
Run 1: Statistics of Verus

Start at: Sun, 16 Jul 2017 19:17:22 +0000
End at: Sun, 16 Jul 2017 19:17:52 +0000
Local clock offset: 0.402 ms
Remote clock offset: 1.059 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:13:53 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.49 Mbit/s
95th percentile per-packet one-way delay: 327.432 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 58.49 Mbit/s
95th percentile per-packet one-way delay: 327.432 ms
Loss rate: 3.12%
```
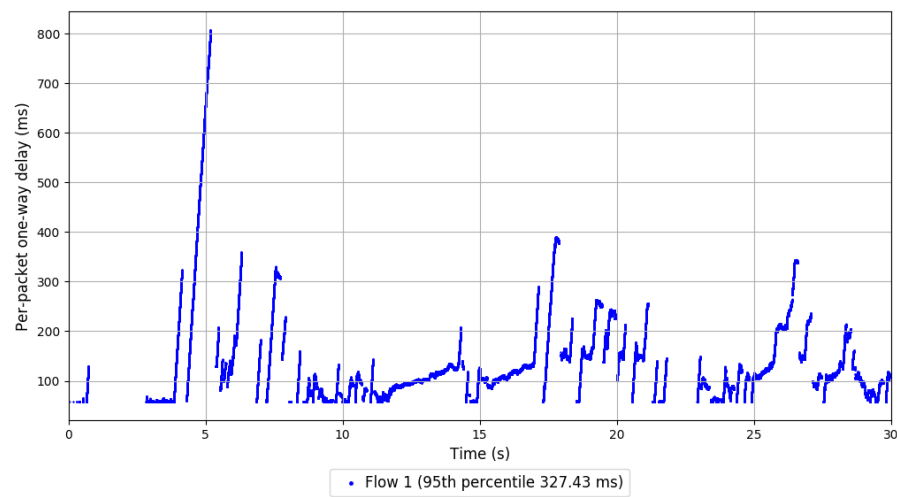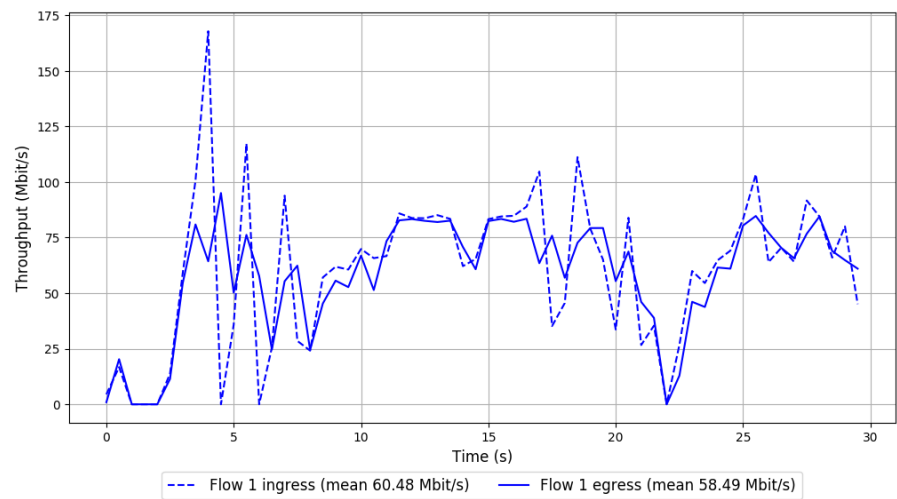
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: Sun, 16 Jul 2017 19:34:37 +0000
End at: Sun, 16 Jul 2017 19:35:07 +0000
Local clock offset: 0.439 ms
Remote clock offset: 0.567 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:13:58 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.74 Mbit/s
95th percentile per-packet one-way delay: 392.195 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 72.74 Mbit/s
95th percentile per-packet one-way delay: 392.195 ms
Loss rate: 0.94%
```
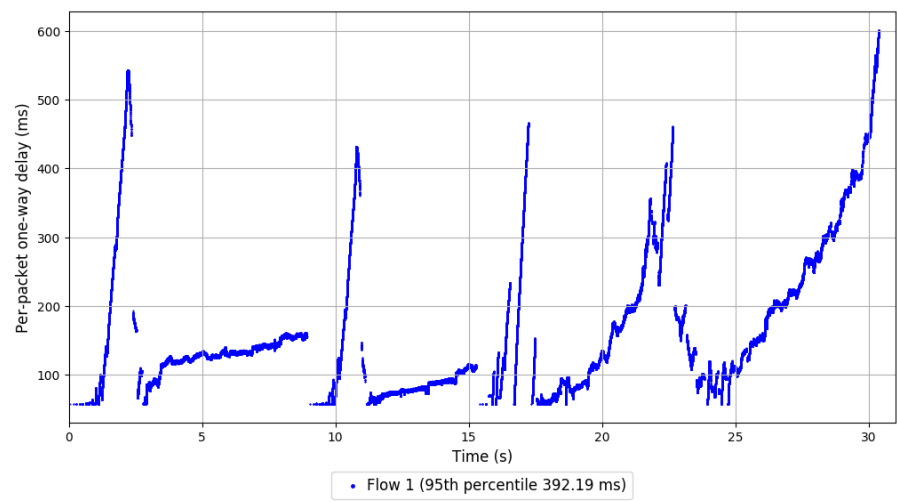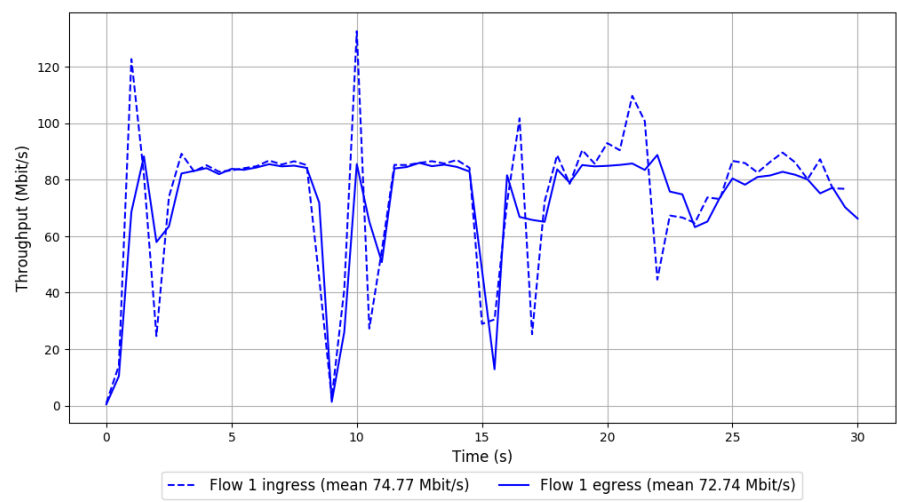
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: Sun, 16 Jul 2017 19:51:58 +0000
End at: Sun, 16 Jul 2017 19:52:28 +0000
Local clock offset: 0.439 ms
Remote clock offset: 0.597 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:04 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.89 Mbit/s
95th percentile per-packet one-way delay: 639.070 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 82.89 Mbit/s
95th percentile per-packet one-way delay: 639.070 ms
Loss rate: 0.26%
```
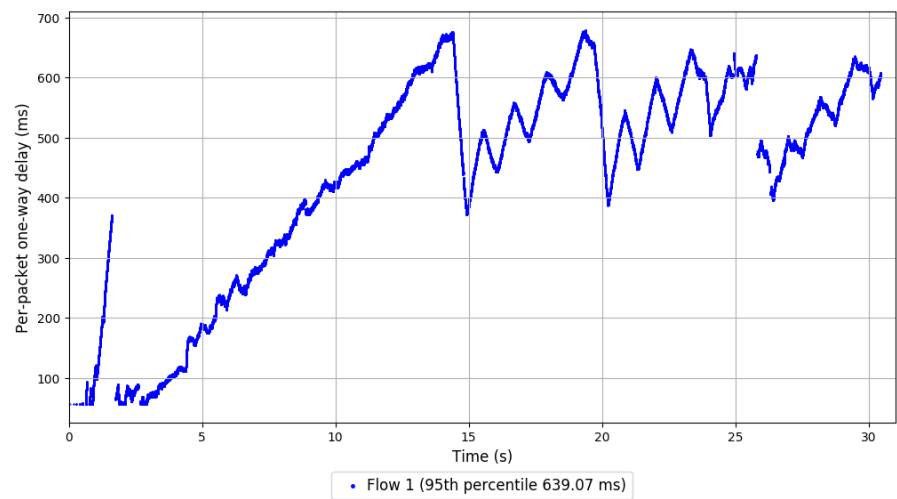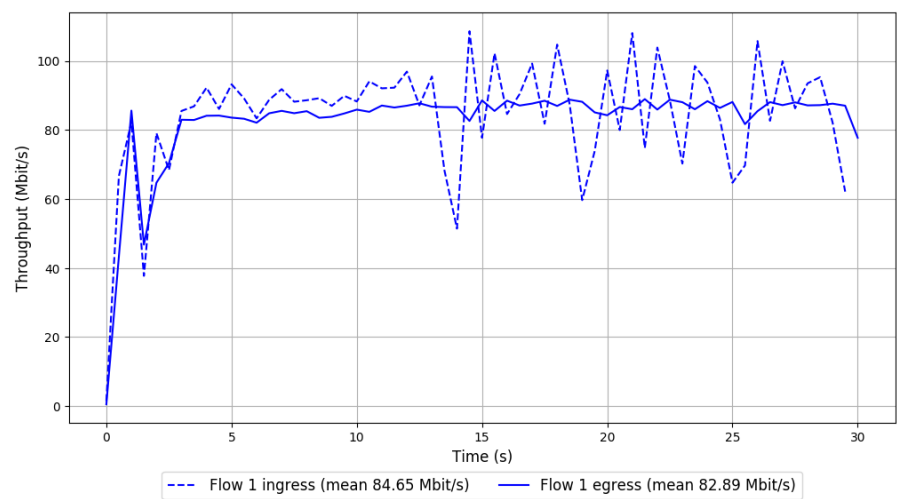
Run 3: Report of Verus — Data Link

Flow 1 ingress (mean 84.65 Mbit/s)   Flow 1 egress (mean 82.89 Mbit/s)

Flow 1 (95th percentile 639.07 ms)

```
Run 4: Statistics of Verus

Start at: Sun, 16 Jul 2017 20:09:21 +0000
End at: Sun, 16 Jul 2017 20:09:51 +0000
Local clock offset: 0.404 ms
Remote clock offset: 0.725 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:08 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.11 Mbit/s
95th percentile per-packet one-way delay: 250.464 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 73.11 Mbit/s
95th percentile per-packet one-way delay: 250.464 ms
Loss rate: 0.79%
```
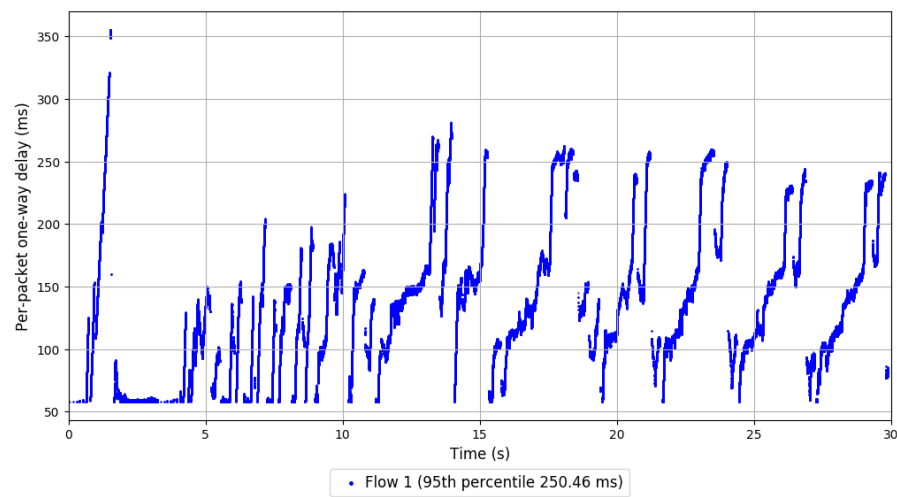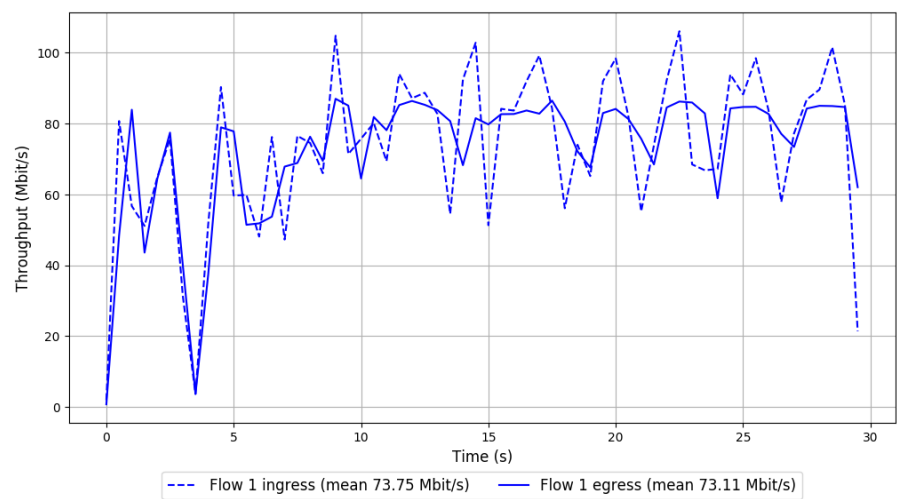
Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: Sun, 16 Jul 2017 20:23:15 +0000
End at: Sun, 16 Jul 2017 20:23:45 +0000
Local clock offset: 0.393 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:17 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.01 Mbit/s
95th percentile per-packet one-way delay: 549.837 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 74.01 Mbit/s
95th percentile per-packet one-way delay: 549.837 ms
Loss rate: 0.76%
```
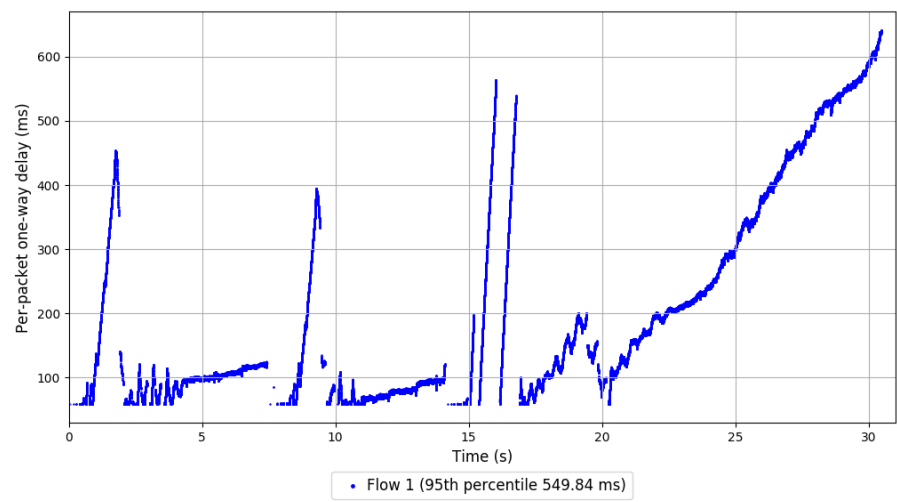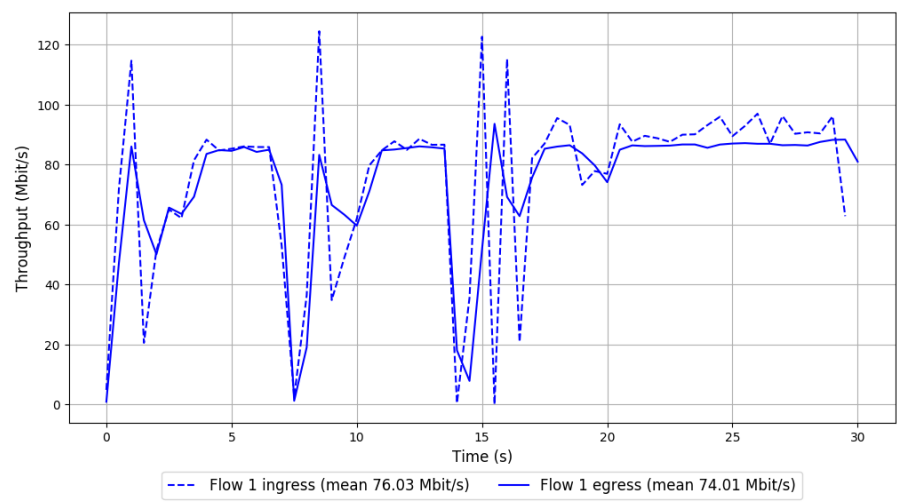
Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: Sun, 16 Jul 2017 20:38:55 +0000
End at: Sun, 16 Jul 2017 20:39:25 +0000
Local clock offset: 0.39 ms
Remote clock offset: -0.134 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:17 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.86 Mbit/s
95th percentile per-packet one-way delay: 337.701 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 59.86 Mbit/s
95th percentile per-packet one-way delay: 337.701 ms
Loss rate: 2.69%
```
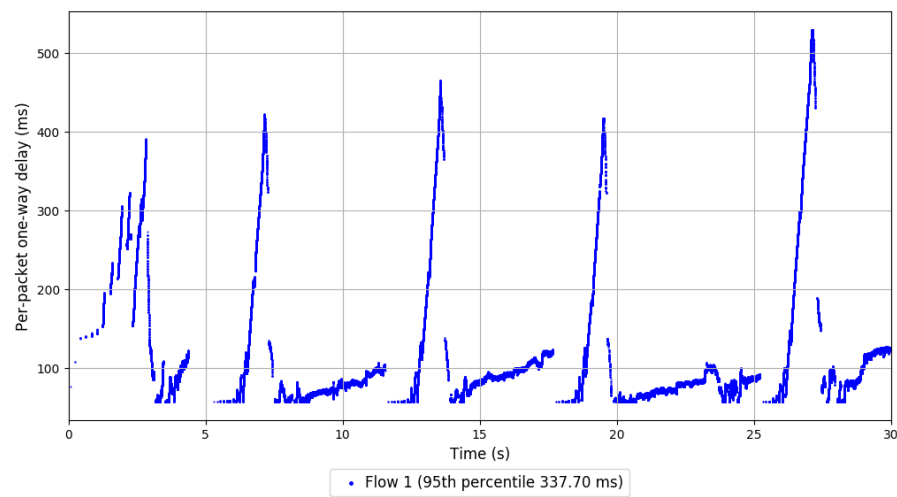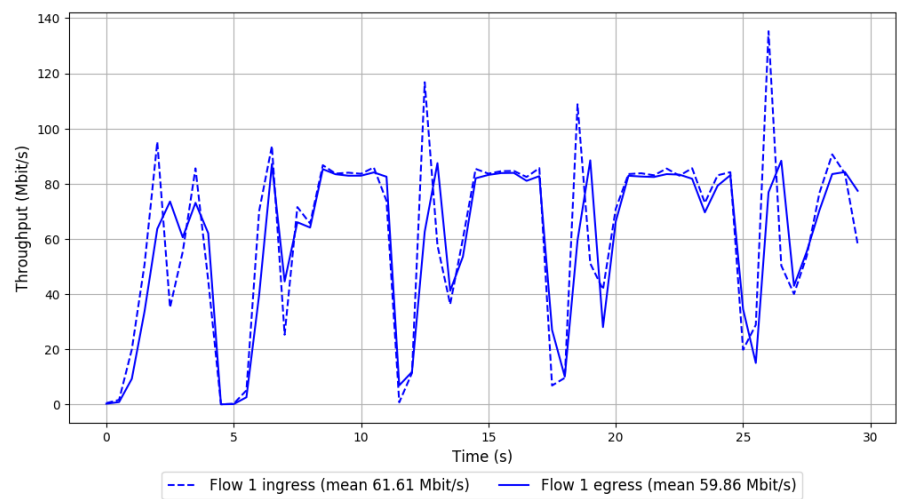
Run 6: Report of Verus — Data Link

```
Run 7: Statistics of Verus

Start at: Sun, 16 Jul 2017 20:56:14 +0000
End at: Sun, 16 Jul 2017 20:56:44 +0000
Local clock offset: 0.199 ms
Remote clock offset: -0.546 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:27 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.44 Mbit/s
95th percentile per-packet one-way delay: 583.213 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 73.44 Mbit/s
95th percentile per-packet one-way delay: 583.213 ms
Loss rate: 0.65%
```
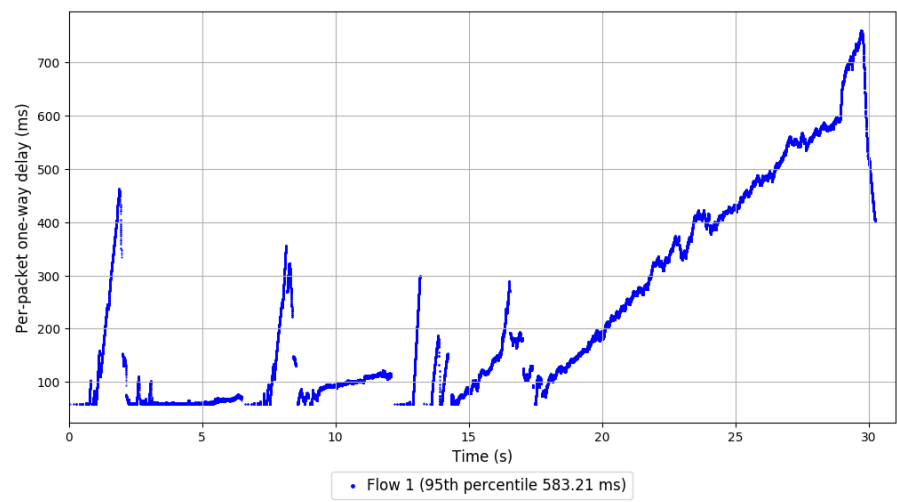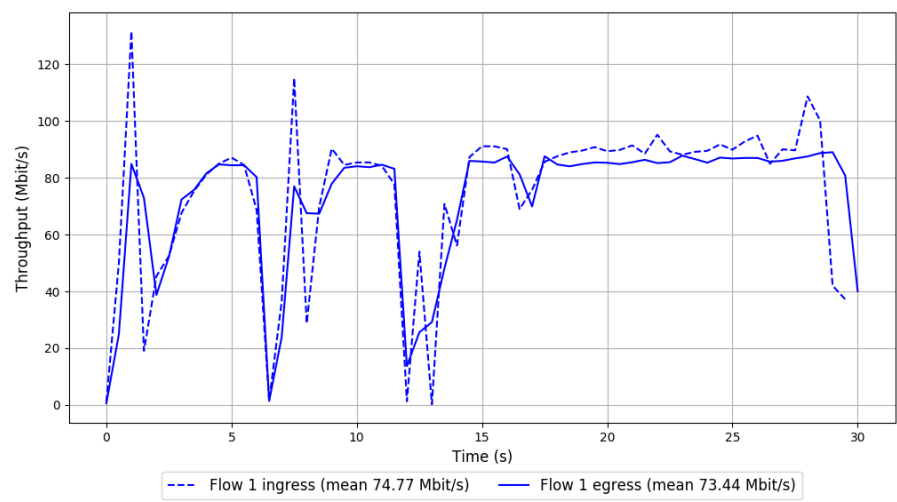
Run 7: Report of Verus — Data Link

Flow 1 ingress (mean 74.77 Mbit/s)   Flow 1 egress (mean 73.44 Mbit/s)

Flow 1 (95th percentile 583.21 ms)

```
Run 8: Statistics of Verus

Start at: Sun, 16 Jul 2017 21:14:03 +0000
End at: Sun, 16 Jul 2017 21:14:33 +0000
Local clock offset: 0.411 ms
Remote clock offset: -2.191 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:27 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.70 Mbit/s
95th percentile per-packet one-way delay: 264.107 ms
Loss rate: 2.60%
-- Flow 1:
Average throughput: 68.70 Mbit/s
95th percentile per-packet one-way delay: 264.107 ms
Loss rate: 2.60%
```
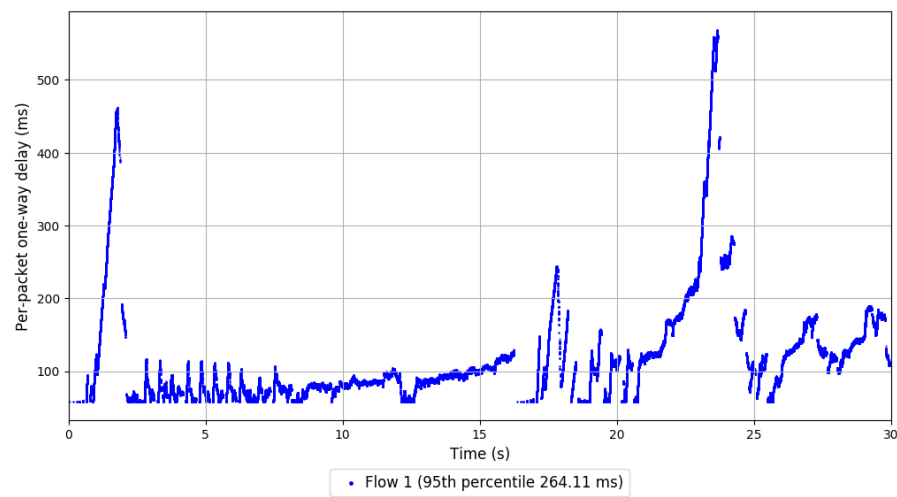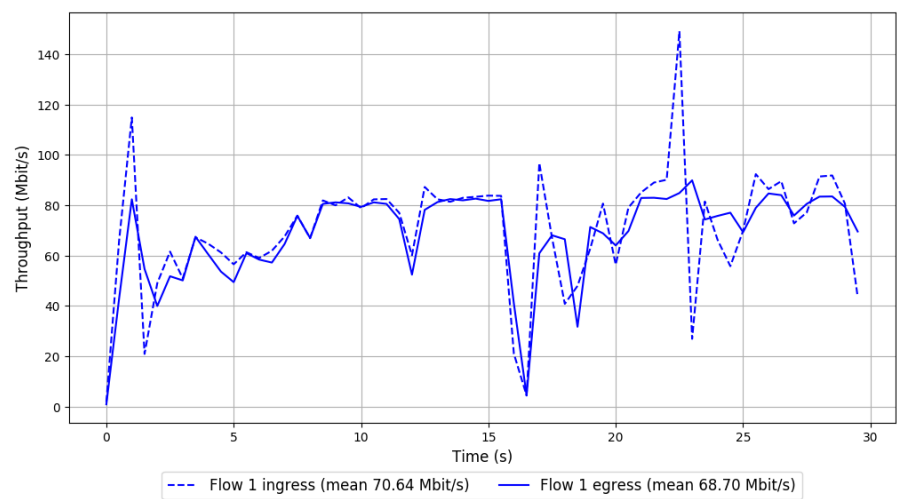
Run 8: Report of Verus — Data Link

Flow 1 ingress (mean 70.64 Mbit/s) ----   Flow 1 egress (mean 68.70 Mbit/s) ——

• Flow 1 (95th percentile 264.11 ms)

```
Run 9: Statistics of Verus

Start at: Sun, 16 Jul 2017 21:31:22 +0000
End at: Sun, 16 Jul 2017 21:31:52 +0000
Local clock offset: 0.271 ms
Remote clock offset: -3.809 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:39 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.30 Mbit/s
95th percentile per-packet one-way delay: 661.121 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 81.30 Mbit/s
95th percentile per-packet one-way delay: 661.121 ms
Loss rate: 0.18%
```
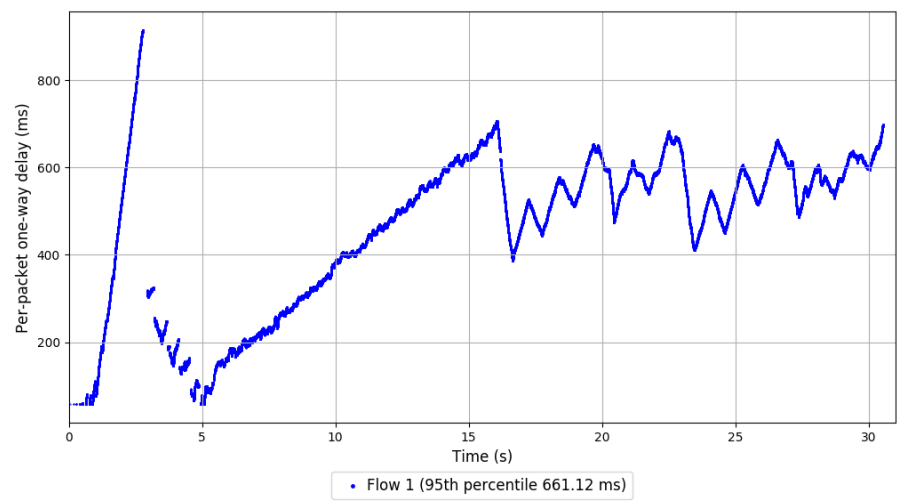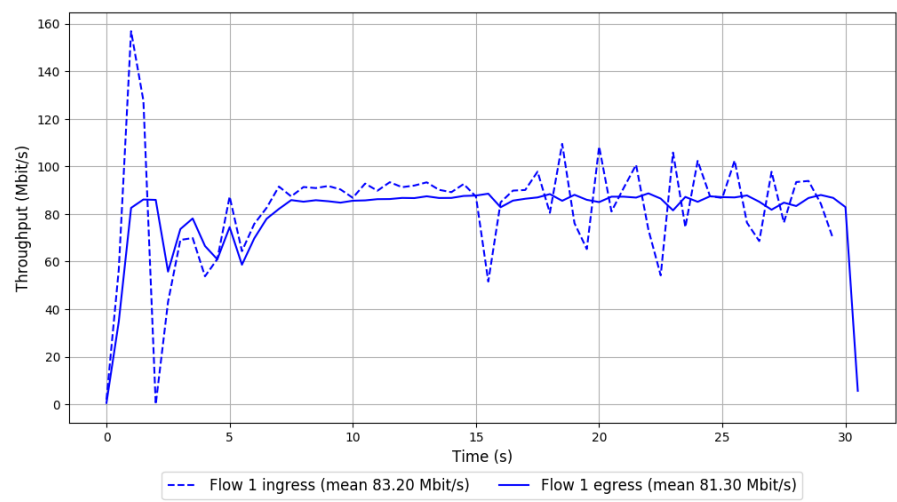
Run 9: Report of Verus — Data Link

Flow 1 ingress (mean 83.20 Mbit/s) --- Flow 1 egress (mean 81.30 Mbit/s)

• Flow 1 (95th percentile 661.12 ms)

```
Run 10: Statistics of Verus

Start at: Sun, 16 Jul 2017 21:48:45 +0000
End at: Sun, 16 Jul 2017 21:49:15 +0000
Local clock offset: 0.341 ms
Remote clock offset: -5.56 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:39 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.46 Mbit/s
95th percentile per-packet one-way delay: 677.425 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 80.46 Mbit/s
95th percentile per-packet one-way delay: 677.425 ms
Loss rate: 0.34%
```
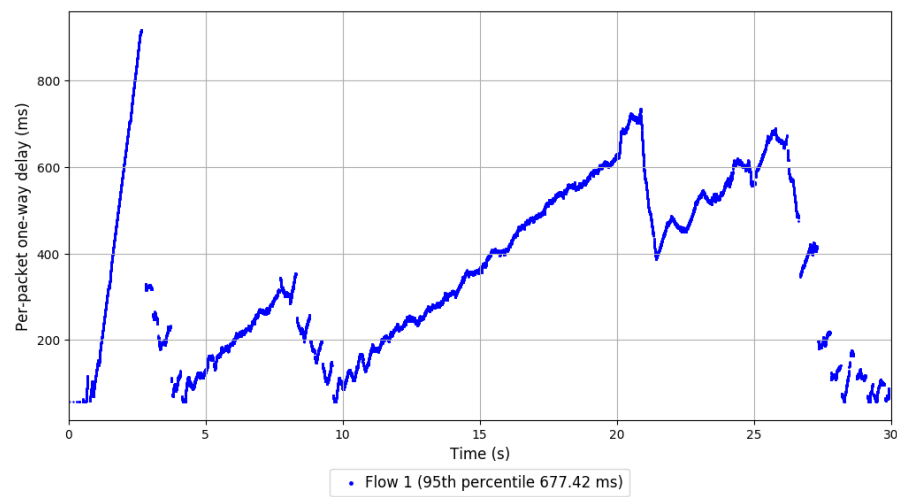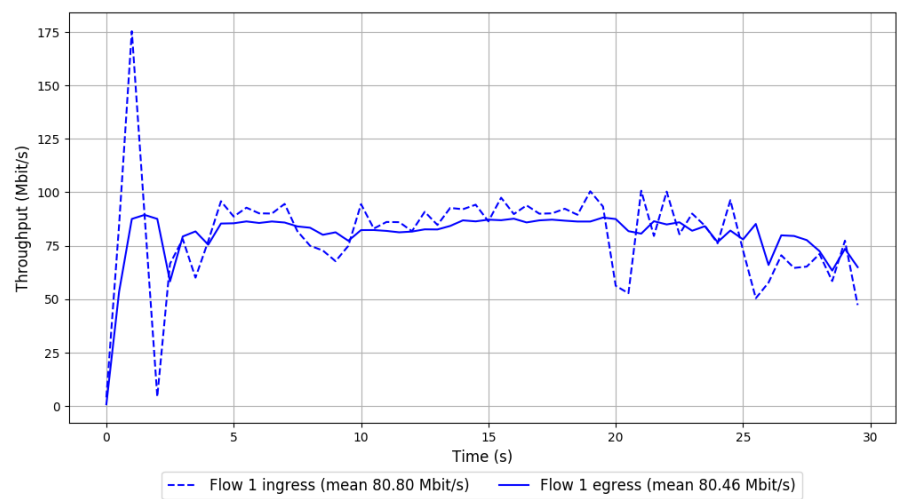
Run 10: Report of Verus — Data Link

```
Run 1: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 19:09:19 +0000
End at: Sun, 16 Jul 2017 19:09:49 +0000
Local clock offset: 0.349 ms
Remote clock offset: 1.099 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:40 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 58.845 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 58.845 ms
Loss rate: 0.00%
```
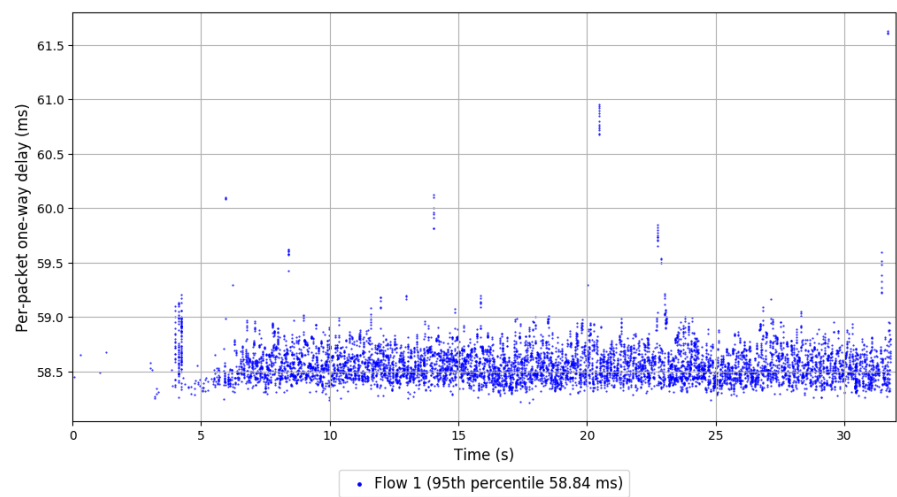
Run 1: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.33 Mbit/s)   Flow 1 egress (mean 2.33 Mbit/s)

Flow 1 (95th percentile 58.84 ms)

```
Run 2: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 19:26:35 +0000
End at: Sun, 16 Jul 2017 19:27:05 +0000
Local clock offset: 0.442 ms
Remote clock offset: 1.252 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:40 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 58.590 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 58.590 ms
Loss rate: 0.00%
```
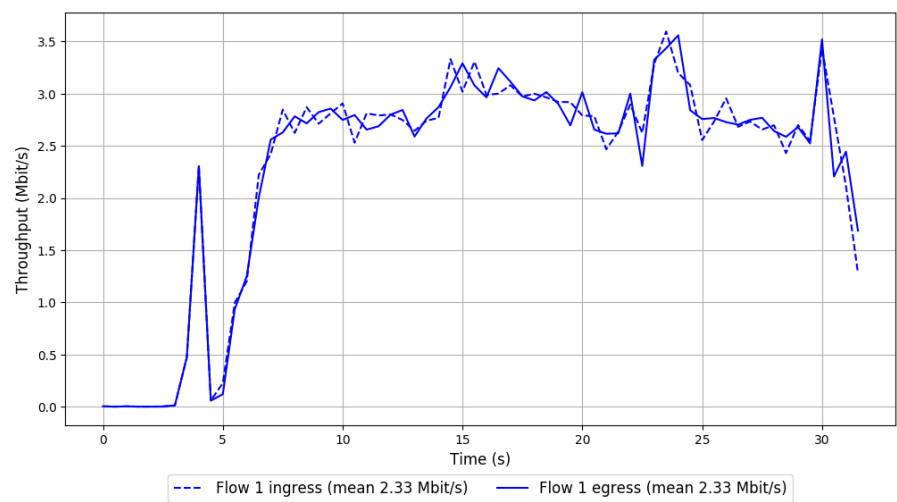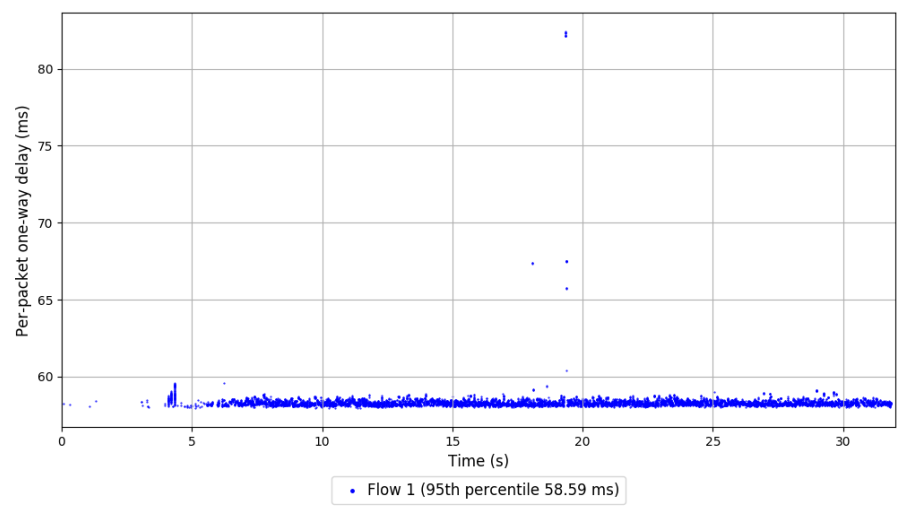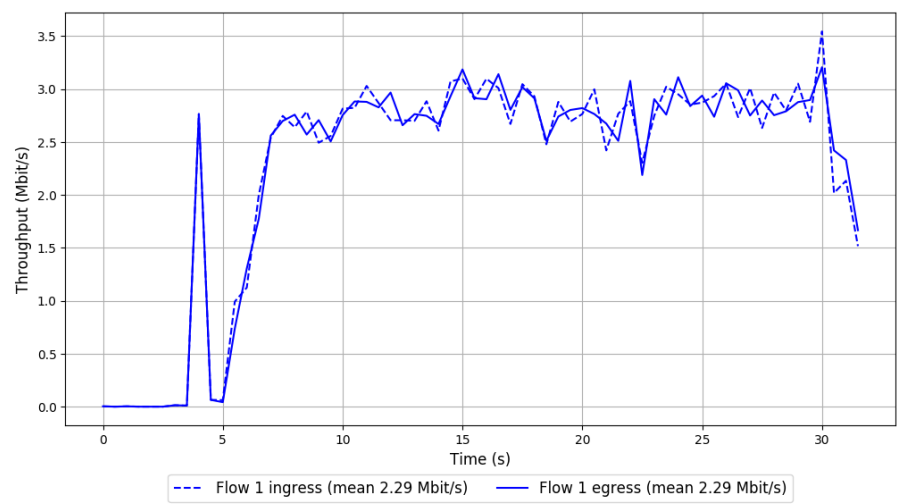
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 19:43:53 +0000
End at: Sun, 16 Jul 2017 19:44:23 +0000
Local clock offset: 0.435 ms
Remote clock offset: 1.087 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:42 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 59.094 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 59.094 ms
Loss rate: 0.00%
```
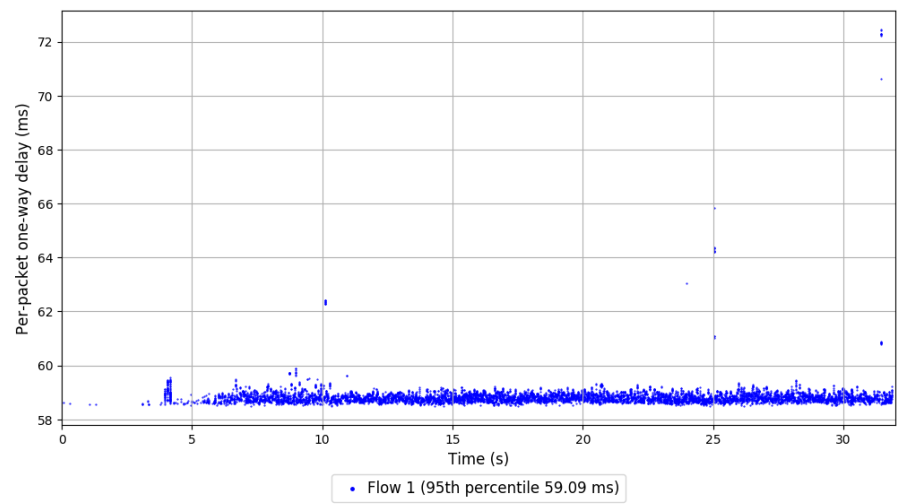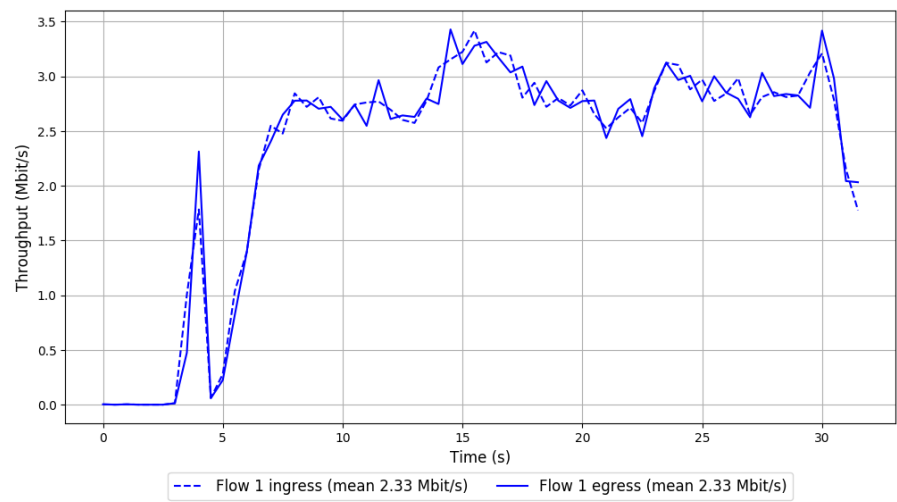
Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 20:01:16 +0000
End at: Sun, 16 Jul 2017 20:01:46 +0000
Local clock offset: 0.416 ms
Remote clock offset: 0.582 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:42 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 69.213 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 69.213 ms
Loss rate: 0.60%
```
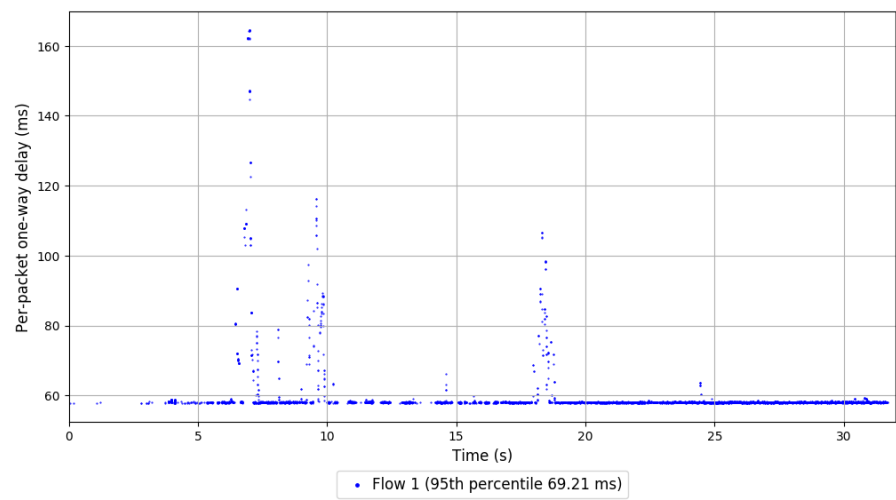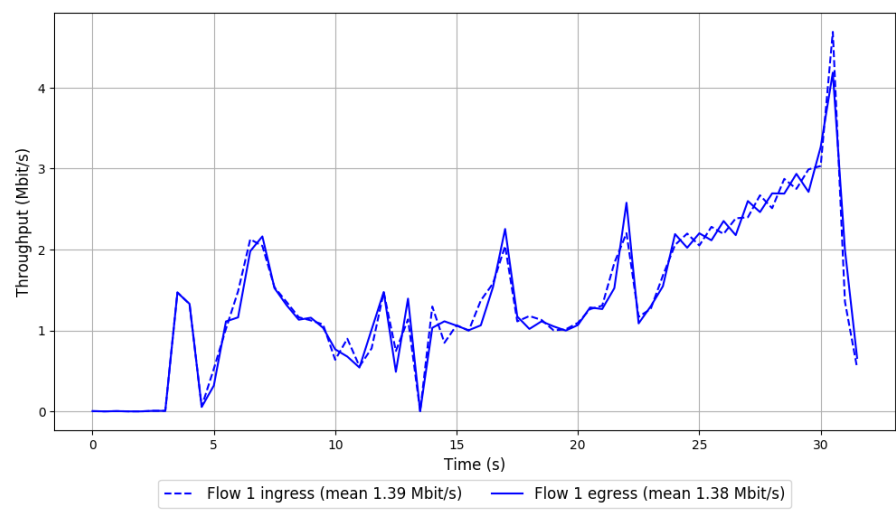
Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 20:16:54 +0000
End at: Sun, 16 Jul 2017 20:17:24 +0000
Local clock offset: 0.406 ms

# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:43 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 57.791 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 57.791 ms
Loss rate: 0.00%
```
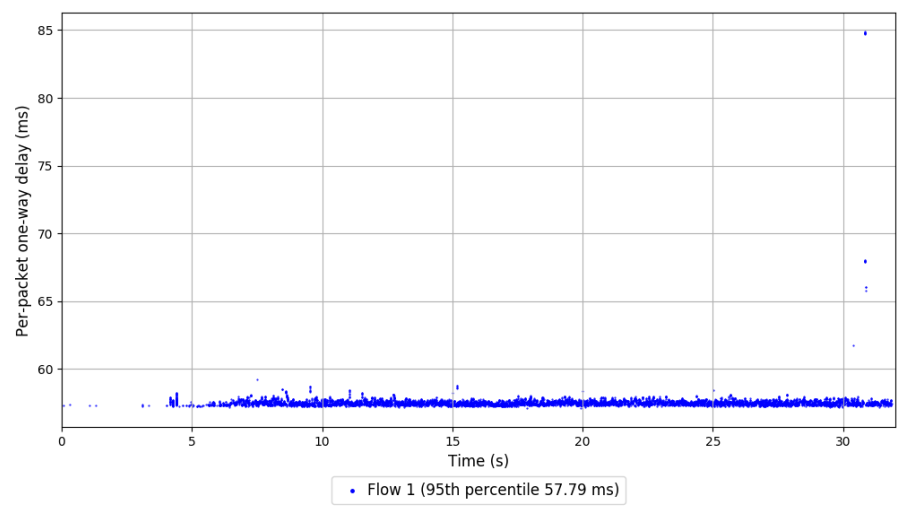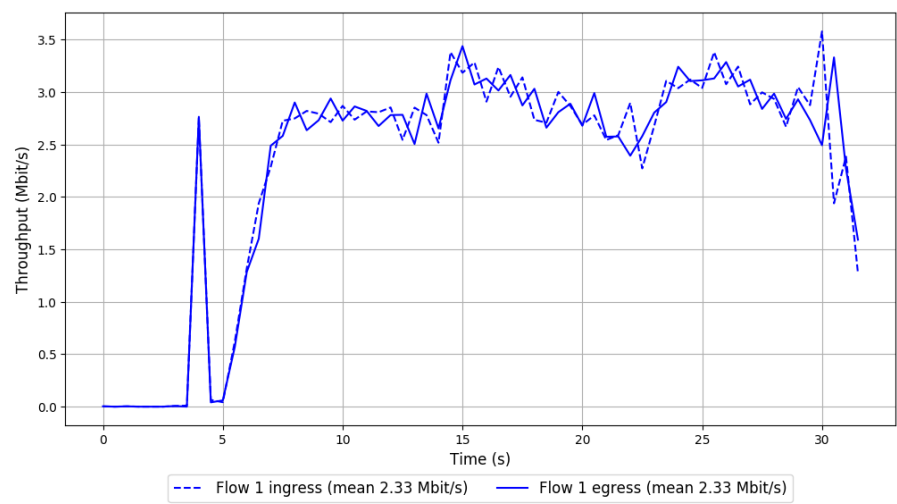
Run 5: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.33 Mbit/s) --- Flow 1 egress (mean 2.33 Mbit/s)

Flow 1 (95th percentile 57.79 ms)

```
Run 6: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 20:30:50 +0000
End at: Sun, 16 Jul 2017 20:31:20 +0000
Local clock offset: 0.408 ms

# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:43 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.71 Mbit/s
95th percentile per-packet one-way delay: 60.276 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 2.71 Mbit/s
95th percentile per-packet one-way delay: 60.276 ms
Loss rate: 0.26%
```
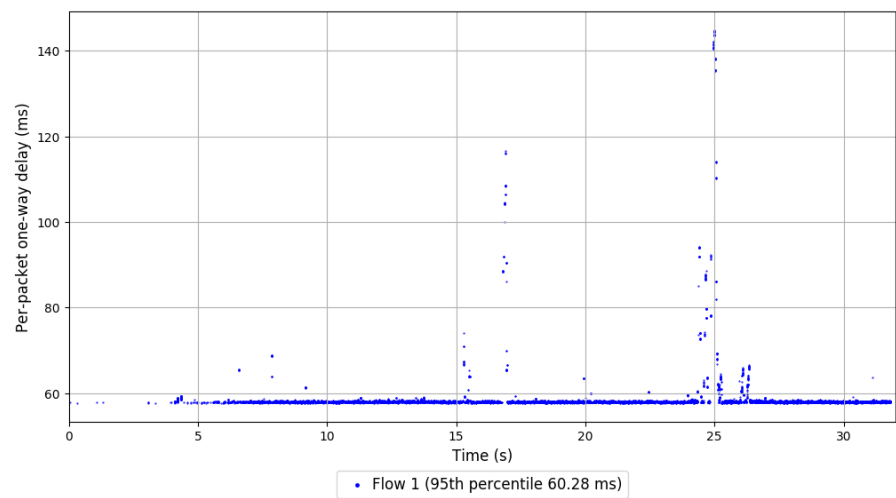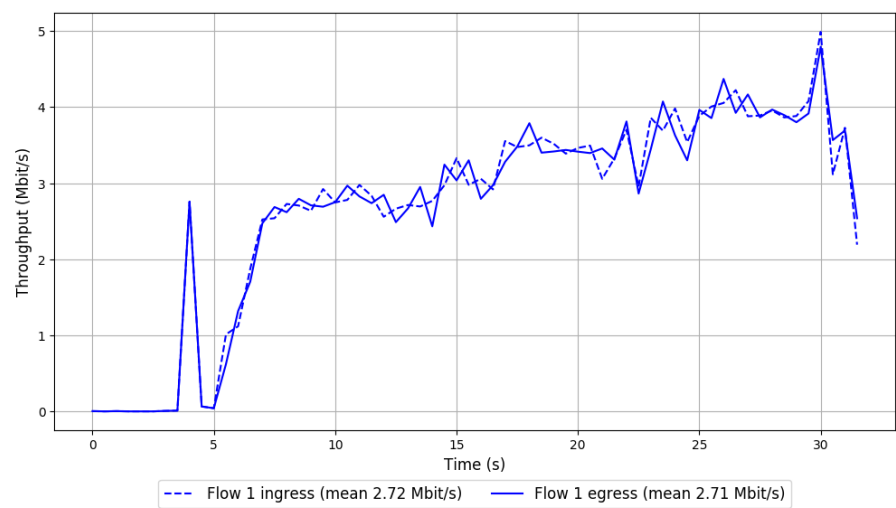
Run 6: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.72 Mbit/s) --- Flow 1 egress (mean 2.71 Mbit/s)

Flow 1 (95th percentile 60.28 ms)

```
Run 7: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 20:48:11 +0000
End at: Sun, 16 Jul 2017 20:48:41 +0000
Local clock offset: 0.367 ms
Remote clock offset: -0.344 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:45 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 57.291 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 57.291 ms
Loss rate: 0.00%
```
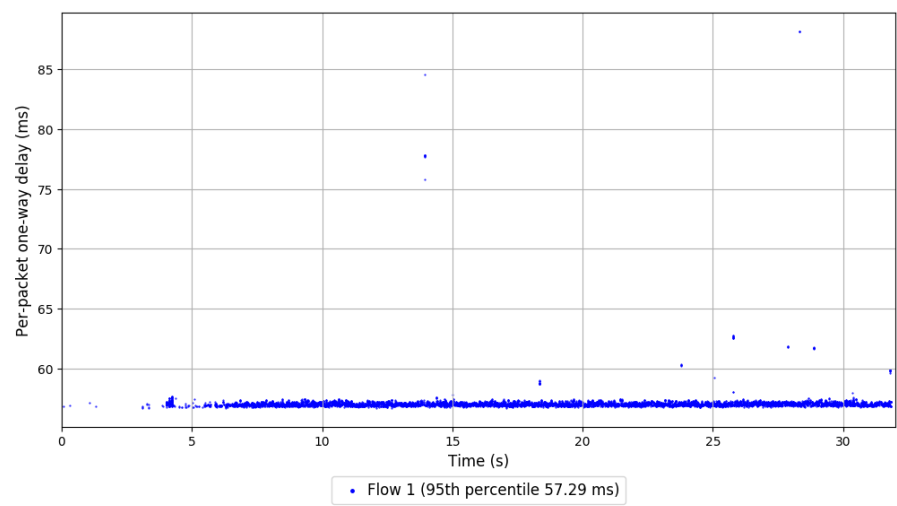
Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 21:05:55 +0000
End at: Sun, 16 Jul 2017 21:06:25 +0000
Local clock offset: 0.288 ms
Remote clock offset: -1.925 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:45 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 57.208 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 57.208 ms
Loss rate: 0.00%
```
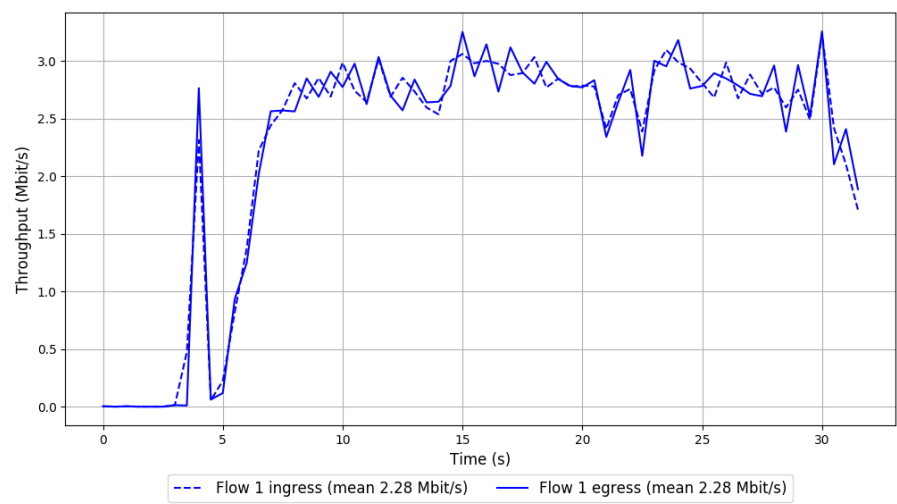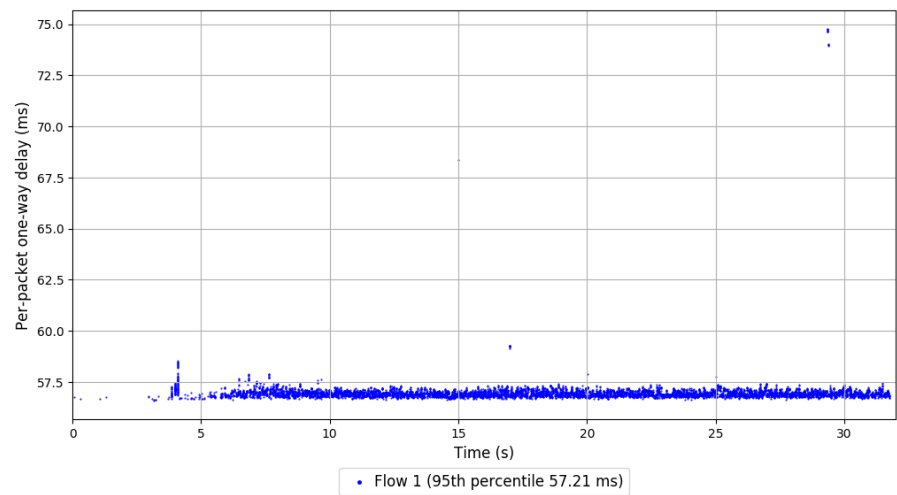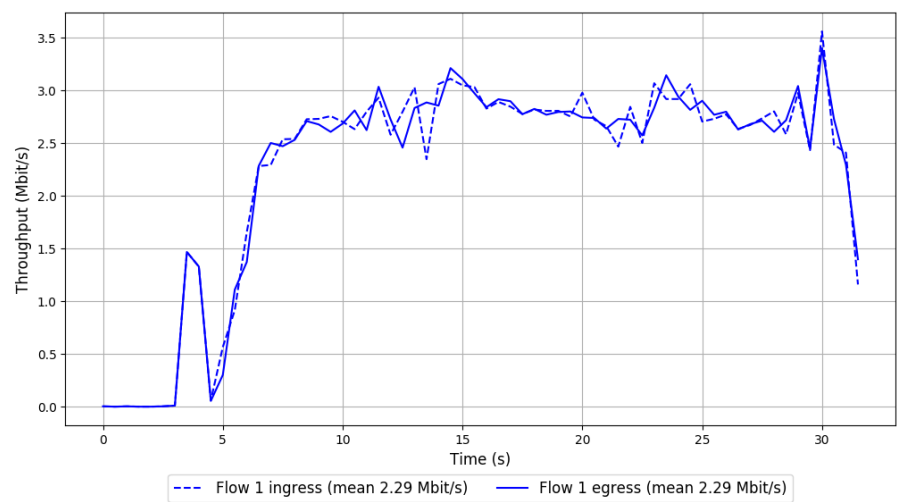
Run 8: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.29 Mbit/s)   Flow 1 egress (mean 2.29 Mbit/s)

Flow 1 (95th percentile 57.21 ms)

```
Run 9: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 21:23:17 +0000
End at: Sun, 16 Jul 2017 21:23:47 +0000
Local clock offset: 0.212 ms
Remote clock offset: -2.761 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:46 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 57.713 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 57.713 ms
Loss rate: 0.00%
```
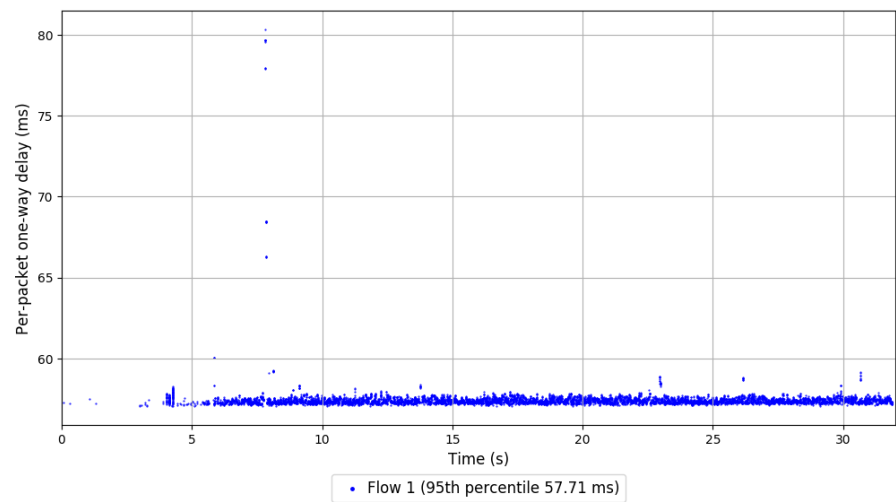
Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: Sun, 16 Jul 2017 21:40:46 +0000
End at: Sun, 16 Jul 2017 21:41:16 +0000
Local clock offset: 0.269 ms
Remote clock offset: -4.94 ms


# Below is generated by plot.py at Mon, 17 Jul 2017 01:14:46 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 58.143 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 58.143 ms
Loss rate: 0.00%
```
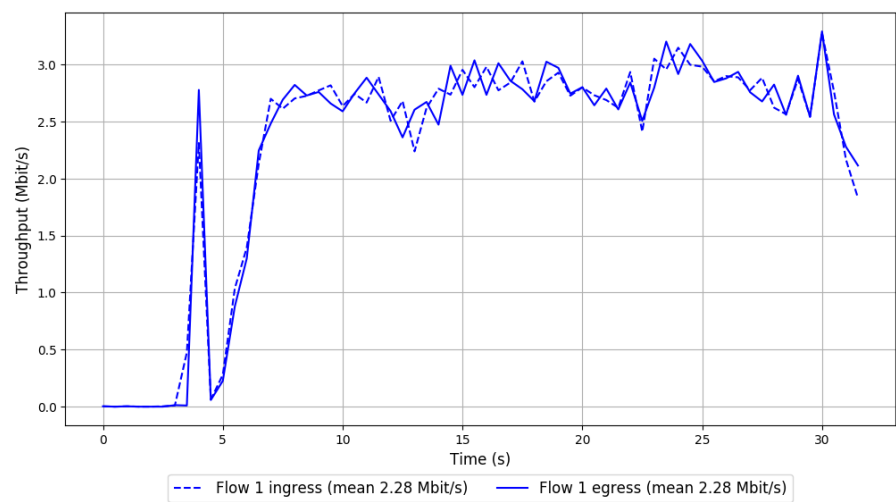
Run 10: Report of WebRTC media — Data Link