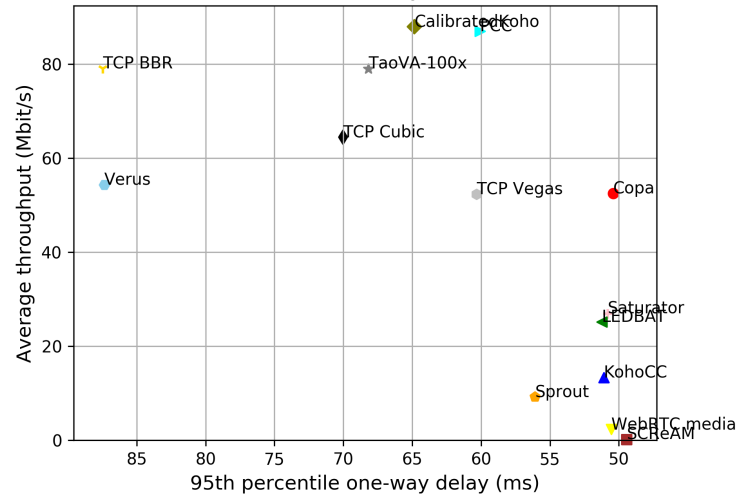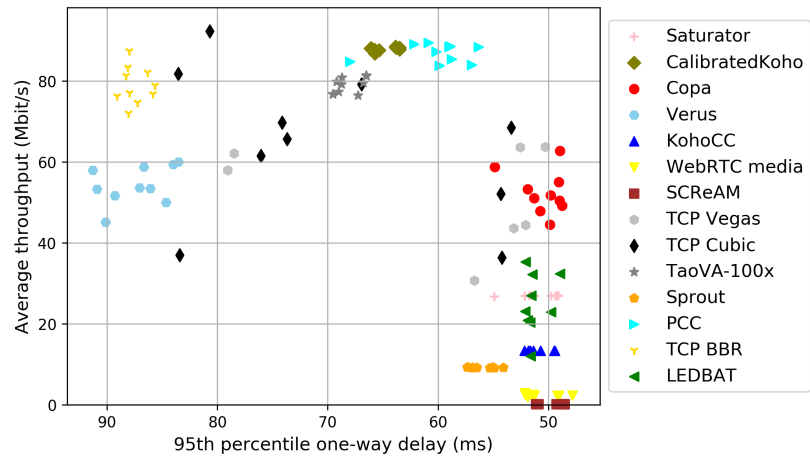**Pantheon Summary** (Generated at Tue, 25 Jul 2017 03:34:12 +0000 with pantheon version `266b116f0817a07d000b4d181ce187fd27d3e654`)

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

NTP offset measured against time.stanford.edu and has been applied to correct the timestamps in logs.

```
git branch: master @ 266b116f0817a07d000b4d181ce187fd27d3e654
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 California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)

test from AWS California 2 Ethernet to Mexico 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	79.05	87.46	25.26
CalibratedKoho	10	87.92	64.85	0.14
Copa	10	52.49	50.42	0.10
TCP Cubic	10	64.44	70.03	0.40
KohoCC	10	13.37	51.10	0.11
LEDBAT	10	25.14	51.23	0.12
PCC	10	86.96	60.09	0.84
QUIC Cubic	10	nan	nan	nan
Saturator	10	26.95	50.82	0.08
SCReAM	10	0.21	49.43	0.06
Sprout	10	9.22	56.10	0.06
TaoVA-100x	10	78.99	68.18	0.12
TCP Vegas	10	52.34	60.33	0.83
Verus	10	54.35	87.36	37.05
WebRTC media	10	2.36	50.55	0.05

3

```
Run 1: Statistics of TCP BBR

Start at: Mon, 24 Jul 2017 20:02:53 +0000
End at: Mon, 24 Jul 2017 20:03:23 +0000
Local clock offset: -0.062 ms
Remote clock offset: -2.844 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:25:29 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.16 Mbit/s
95th percentile per-packet one-way delay: 86.324 ms
Loss rate: 24.49%
-- Flow 1:
Average throughput: 82.16 Mbit/s
95th percentile per-packet one-way delay: 86.324 ms
Loss rate: 24.49%
```
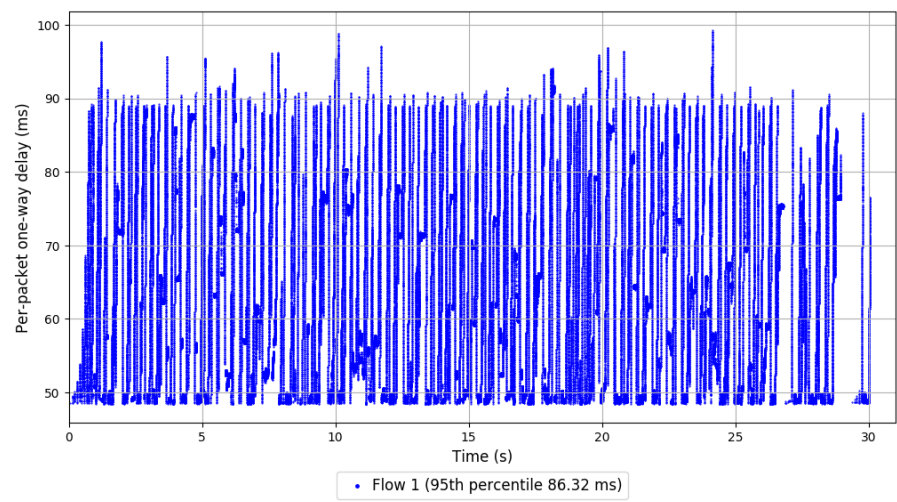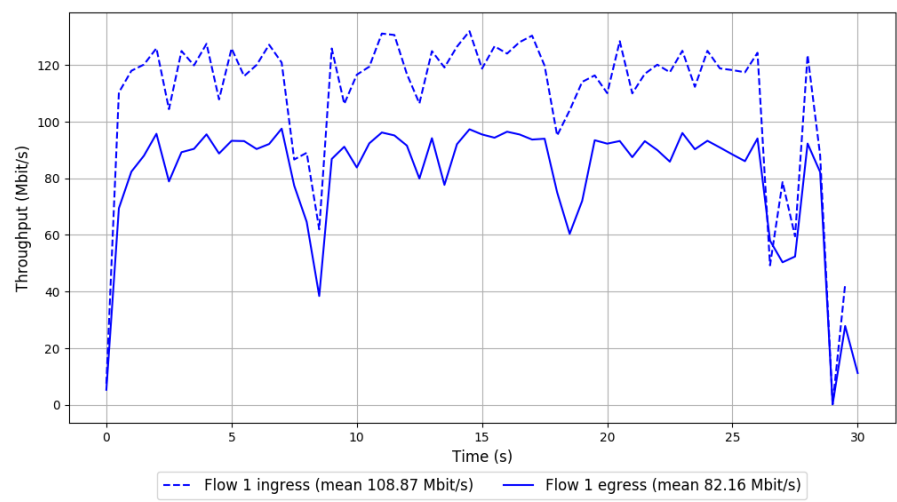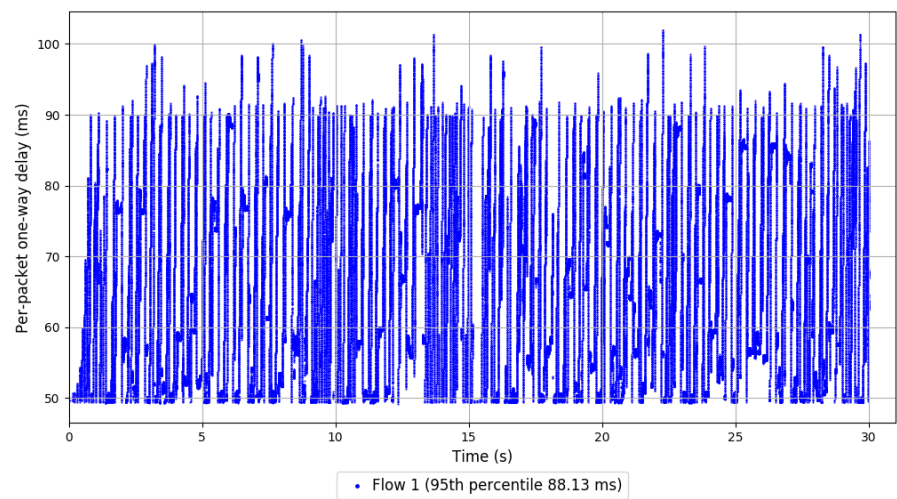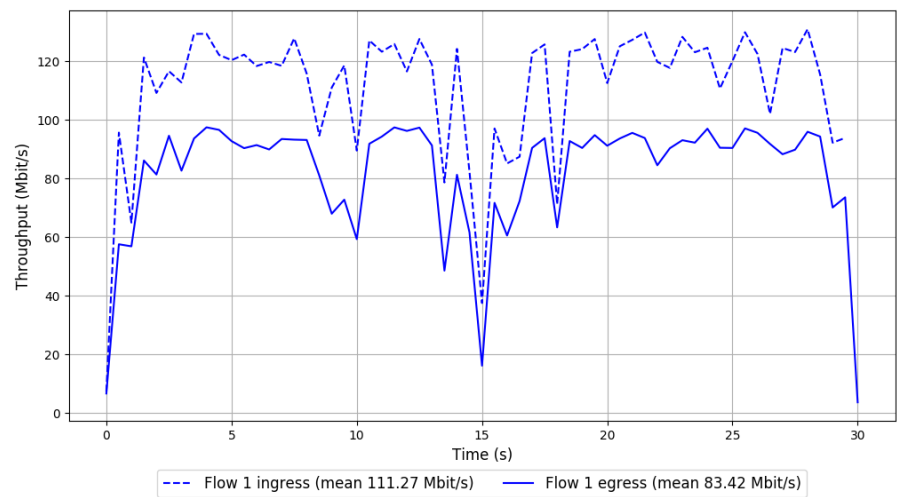
Run 1: Report of TCP BBR — Data Link

Flow 1 ingress (mean 108.87 Mbit/s) --- Flow 1 egress (mean 82.16 Mbit/s)

Flow 1 (95th percentile 86.32 ms)

```
Run 2: Statistics of TCP BBR

Start at: Mon, 24 Jul 2017 20:23:24 +0000
End at: Mon, 24 Jul 2017 20:23:54 +0000
Local clock offset: -0.055 ms
Remote clock offset: -0.944 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:25:29 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.42 Mbit/s
95th percentile per-packet one-way delay: 88.131 ms
Loss rate: 25.00%
-- Flow 1:
Average throughput: 83.42 Mbit/s
95th percentile per-packet one-way delay: 88.131 ms
Loss rate: 25.00%
```
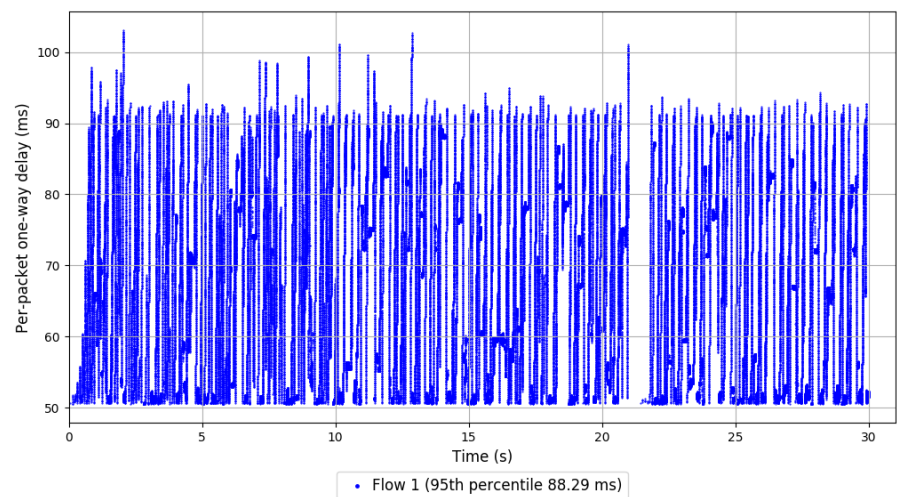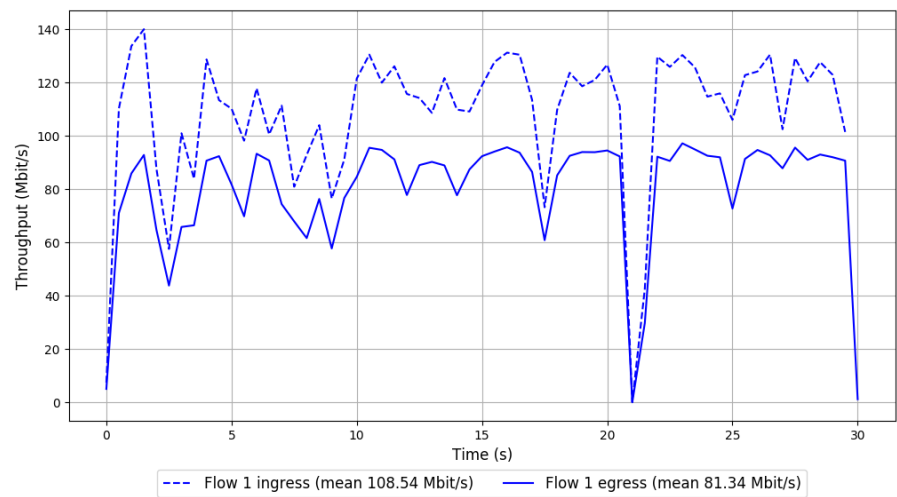
Run 2: Report of TCP BBR — Data Link

Flow 1 ingress (mean 111.27 Mbit/s) ----   Flow 1 egress (mean 83.42 Mbit/s) ——

• Flow 1 (95th percentile 88.13 ms)

```
Run 3: Statistics of TCP BBR

Start at: Mon, 24 Jul 2017 20:43:59 +0000
End at: Mon, 24 Jul 2017 20:44:29 +0000
Local clock offset: 0.197 ms
Remote clock offset: -1.614 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:25:41 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.34 Mbit/s
95th percentile per-packet one-way delay: 88.291 ms
Loss rate: 25.06%
-- Flow 1:
Average throughput: 81.34 Mbit/s
95th percentile per-packet one-way delay: 88.291 ms
Loss rate: 25.06%
```

Run 3: Report of TCP BBR — Data Link

```
Run 4: Statistics of TCP BBR

Start at: Mon, 24 Jul 2017 21:05:00 +0000
End at: Mon, 24 Jul 2017 21:05:30 +0000
Local clock offset: 0.275 ms
Remote clock offset: -0.78 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:25:41 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.08 Mbit/s
95th percentile per-packet one-way delay: 88.047 ms
Loss rate: 24.62%
-- Flow 1:
Average throughput: 72.08 Mbit/s
95th percentile per-packet one-way delay: 88.047 ms
Loss rate: 24.62%
```
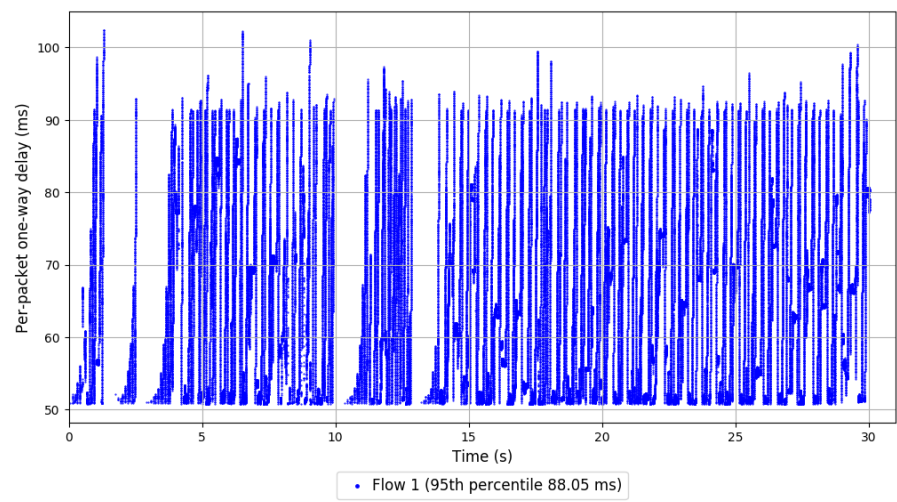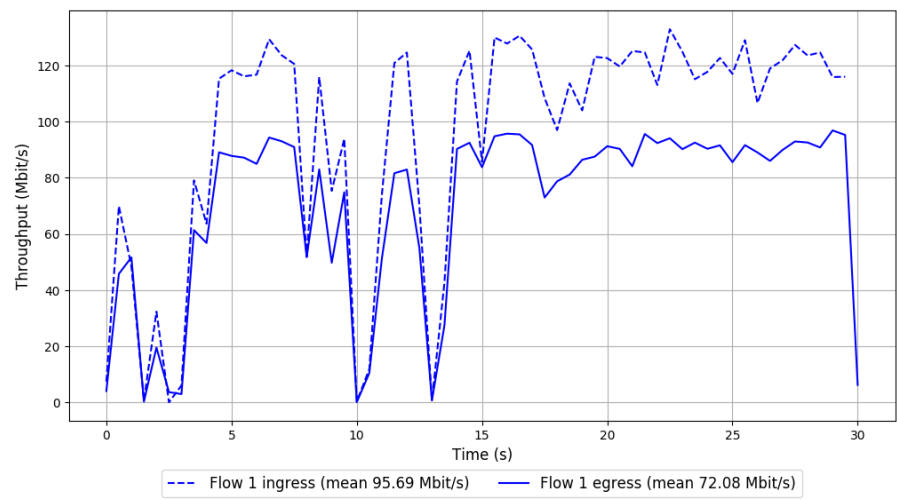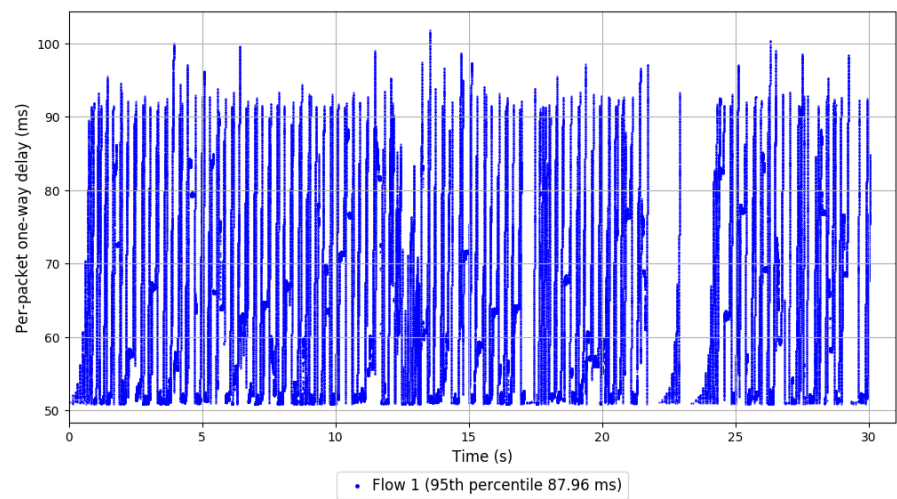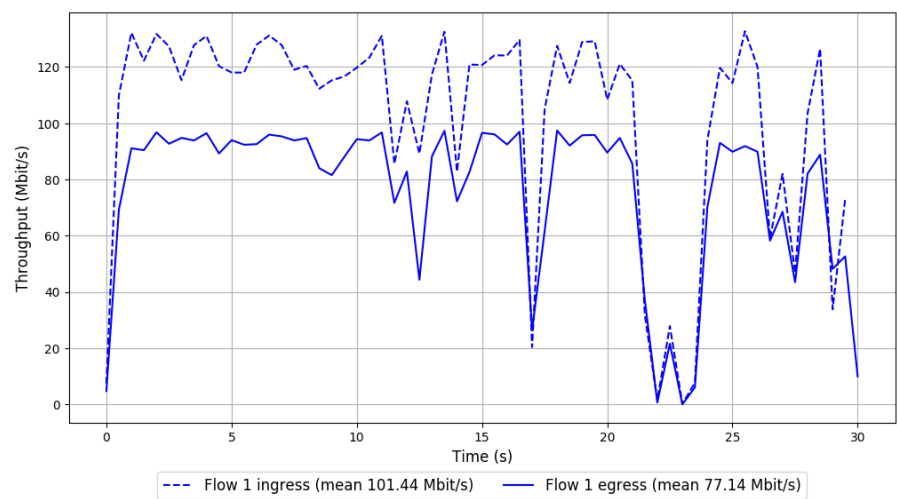
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 95.69 Mbit/s)   Flow 1 egress (mean 72.08 Mbit/s)

• Flow 1 (95th percentile 88.05 ms)

```
Run 5: Statistics of TCP BBR

Start at: Mon, 24 Jul 2017 21:27:08 +0000
End at: Mon, 24 Jul 2017 21:27:38 +0000
Local clock offset: 0.362 ms
Remote clock offset: -0.91 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:25:51 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.14 Mbit/s
95th percentile per-packet one-way delay: 87.964 ms
Loss rate: 23.92%
-- Flow 1:
Average throughput: 77.14 Mbit/s
95th percentile per-packet one-way delay: 87.964 ms
Loss rate: 23.92%
```

Run 5: Report of TCP BBR — Data Link

```
Run 6: Statistics of TCP BBR

Start at: Mon, 24 Jul 2017 21:47:53 +0000
End at: Mon, 24 Jul 2017 21:48:23 +0000
Local clock offset: 0.443 ms
Remote clock offset: -3.573 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:25:52 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.00 Mbit/s
95th percentile per-packet one-way delay: 85.647 ms
Loss rate: 26.34%
-- Flow 1:
Average throughput: 79.00 Mbit/s
95th percentile per-packet one-way delay: 85.647 ms
Loss rate: 26.34%
```
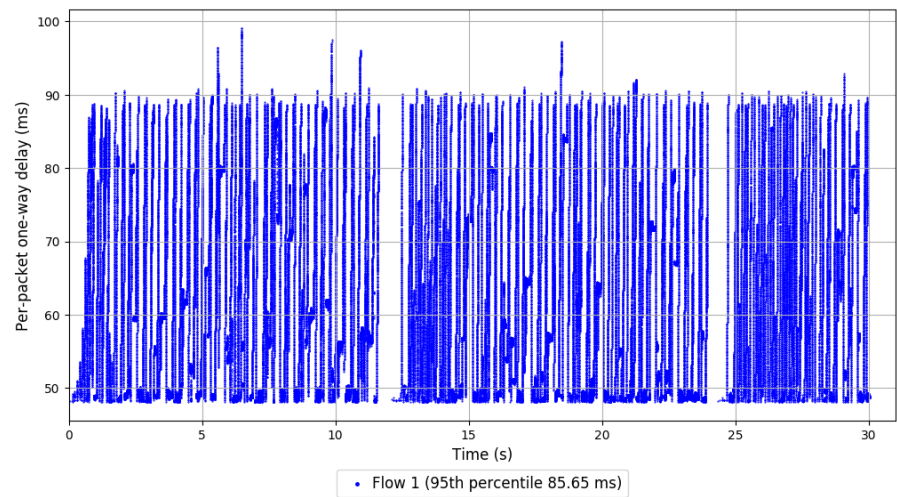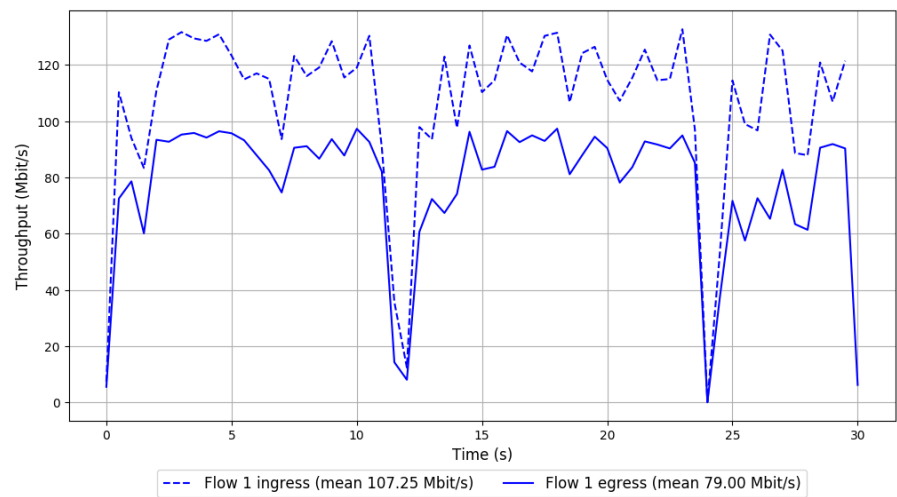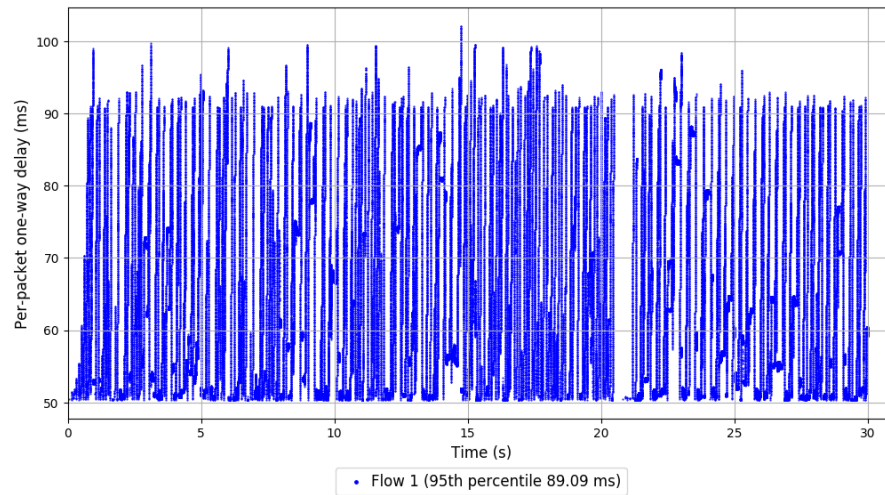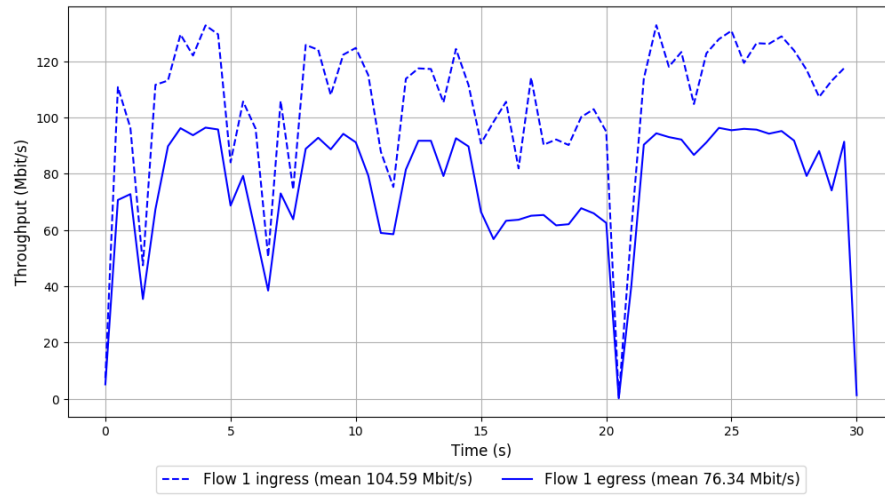
Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 107.25 Mbit/s) --- Flow 1 egress (mean 79.00 Mbit/s)

Flow 1 (95th percentile 85.65 ms)

15

```
Run 7: Statistics of TCP BBR

Start at: Mon, 24 Jul 2017 22:08:10 +0000
End at: Mon, 24 Jul 2017 22:08:40 +0000
Local clock offset: 0.369 ms
Remote clock offset: -1.708 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:26:03 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.34 Mbit/s
95th percentile per-packet one-way delay: 89.094 ms
Loss rate: 27.02%
-- Flow 1:
Average throughput: 76.34 Mbit/s
95th percentile per-packet one-way delay: 89.094 ms
Loss rate: 27.02%
```
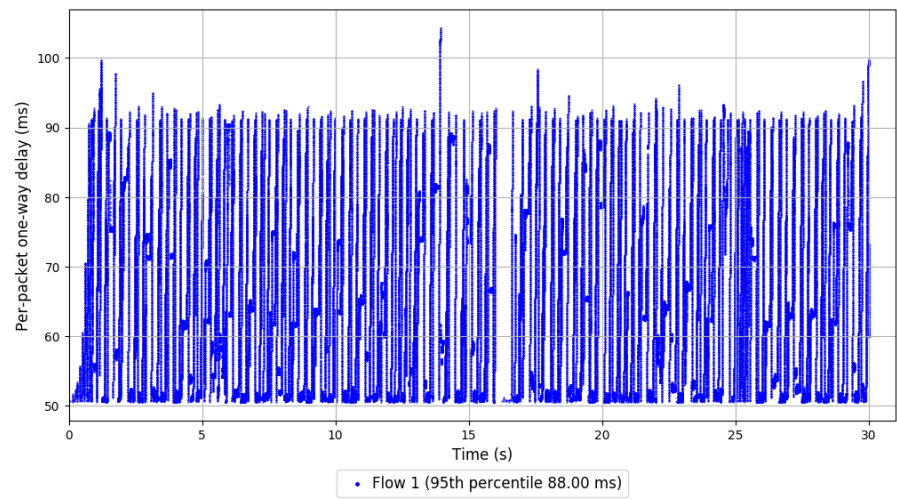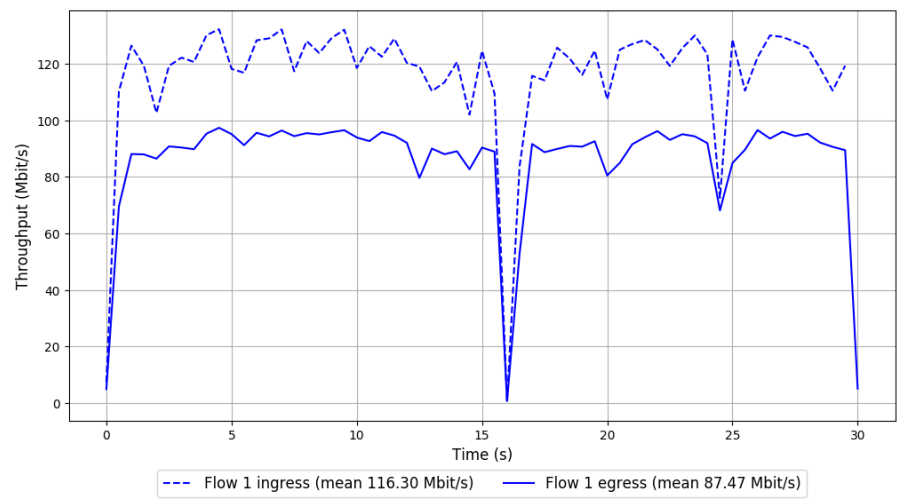
Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 104.59 Mbit/s) ---- Flow 1 egress (mean 76.34 Mbit/s) ——

Flow 1 (95th percentile 89.09 ms)

17

```
Run 8: Statistics of TCP BBR

Start at: Mon, 24 Jul 2017 22:29:25 +0000
End at: Mon, 24 Jul 2017 22:29:55 +0000
Local clock offset: 0.472 ms
Remote clock offset: -2.005 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:26:04 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.47 Mbit/s
95th percentile per-packet one-way delay: 88.004 ms
Loss rate: 24.75%
-- Flow 1:
Average throughput: 87.47 Mbit/s
95th percentile per-packet one-way delay: 88.004 ms
Loss rate: 24.75%
```
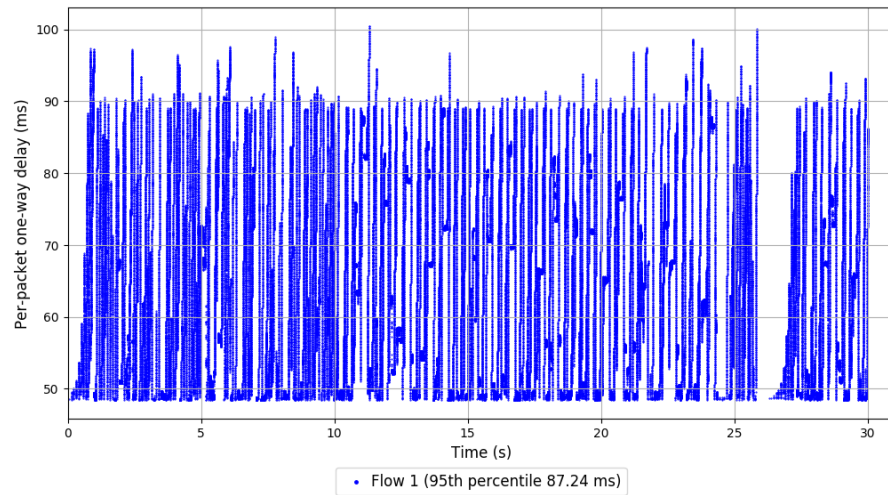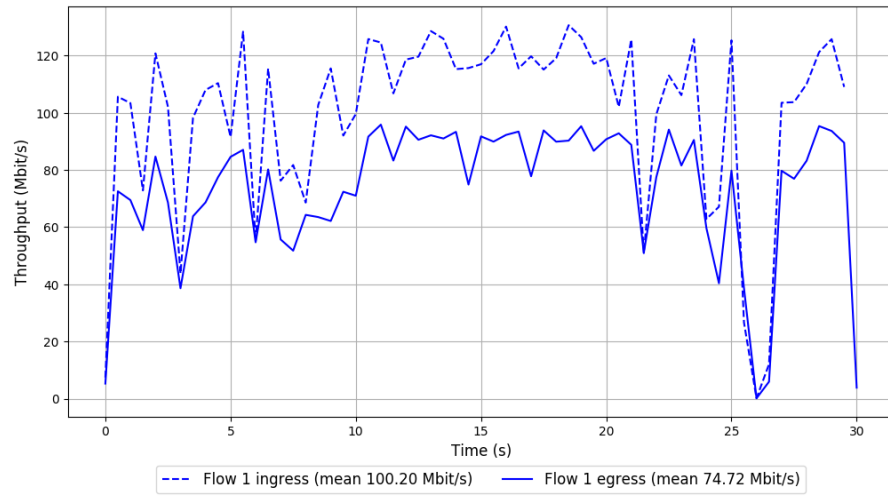
Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 116.30 Mbit/s)   Flow 1 egress (mean 87.47 Mbit/s)

Flow 1 (95th percentile 88.00 ms)

```
Run 9: Statistics of TCP BBR

Start at: Mon, 24 Jul 2017 22:52:21 +0000
End at: Mon, 24 Jul 2017 22:52:51 +0000
Local clock offset: 0.342 ms
Remote clock offset: -4.467 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:26:14 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.72 Mbit/s
95th percentile per-packet one-way delay: 87.243 ms
Loss rate: 25.39%
-- Flow 1:
Average throughput: 74.72 Mbit/s
95th percentile per-packet one-way delay: 87.243 ms
Loss rate: 25.39%
```
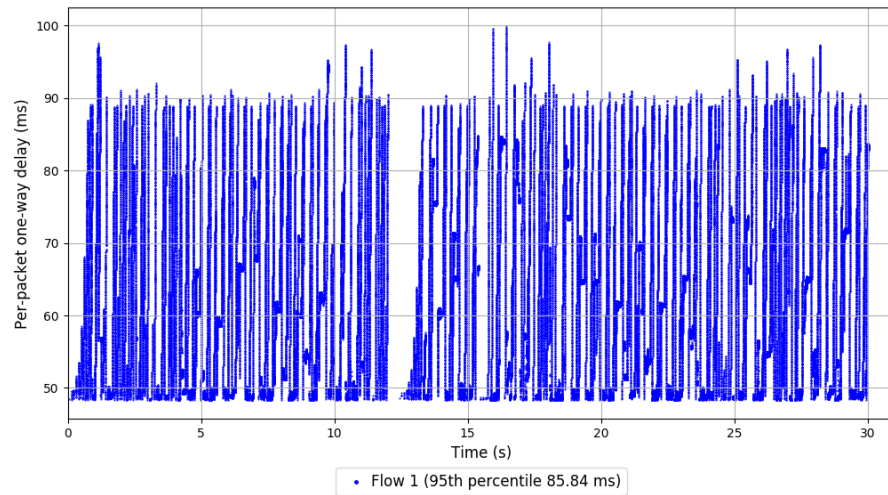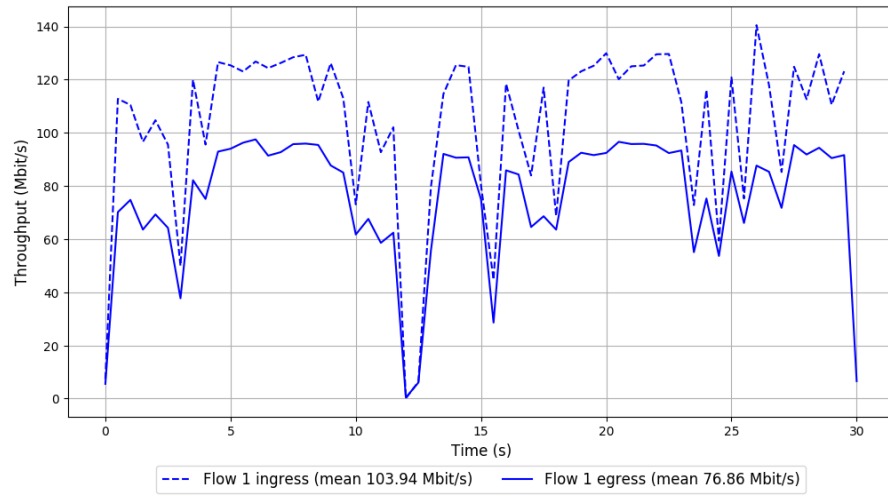
Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 100.20 Mbit/s) --- Flow 1 egress (mean 74.72 Mbit/s)

• Flow 1 (95th percentile 87.24 ms)

```
Run 10: Statistics of TCP BBR

Start at: Mon, 24 Jul 2017 23:14:50 +0000
End at: Mon, 24 Jul 2017 23:15:20 +0000
Local clock offset: 0.296 ms
Remote clock offset: -4.655 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:26:15 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.86 Mbit/s
95th percentile per-packet one-way delay: 85.840 ms
Loss rate: 25.98%
-- Flow 1:
Average throughput: 76.86 Mbit/s
95th percentile per-packet one-way delay: 85.840 ms
Loss rate: 25.98%
```
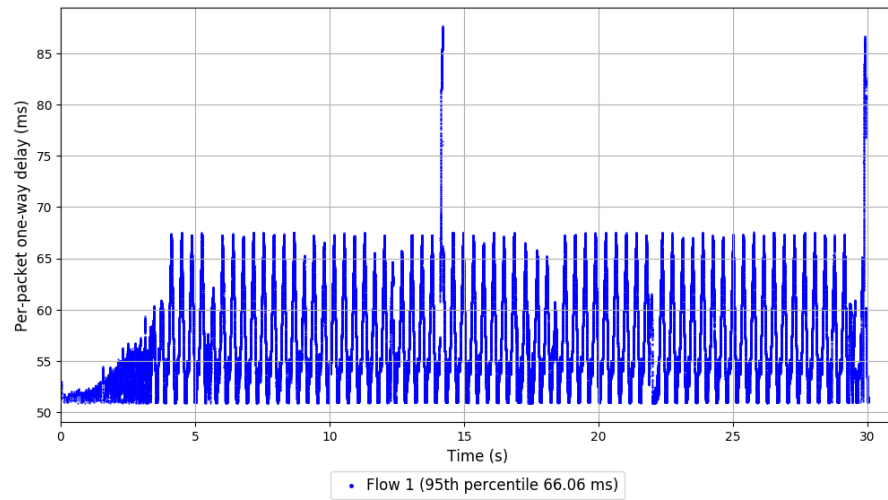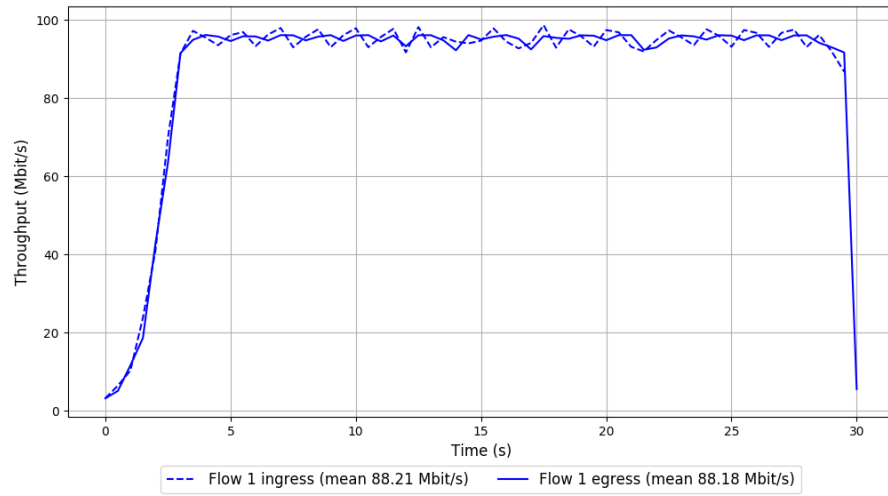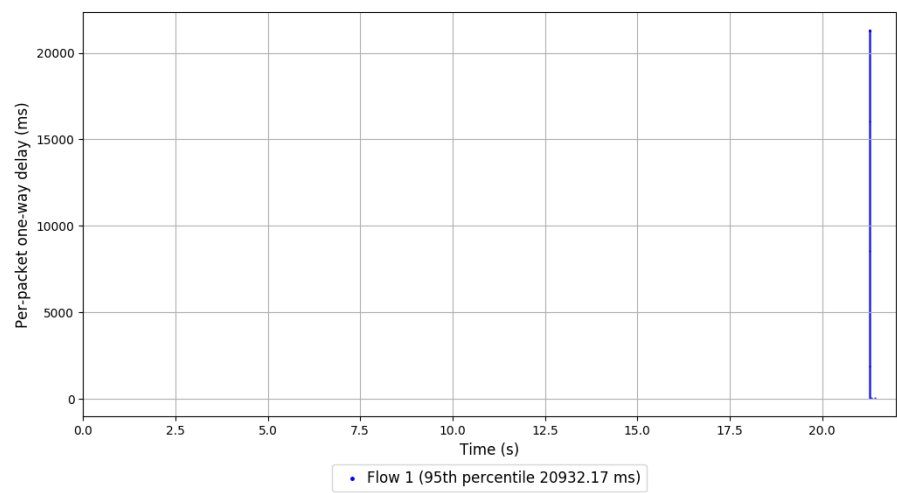
Run 10: Report of TCP BBR — Data Link

```
Run 1: Statistics of CalibratedKoho

Start at: Mon, 24 Jul 2017 20:17:54 +0000
End at: Mon, 24 Jul 2017 20:18:24 +0000
Local clock offset: 0.016 ms
Remote clock offset: -0.772 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:26:26 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.18 Mbit/s
95th percentile per-packet one-way delay: 66.063 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 88.18 Mbit/s
95th percentile per-packet one-way delay: 66.063 ms
Loss rate: 0.03%
```
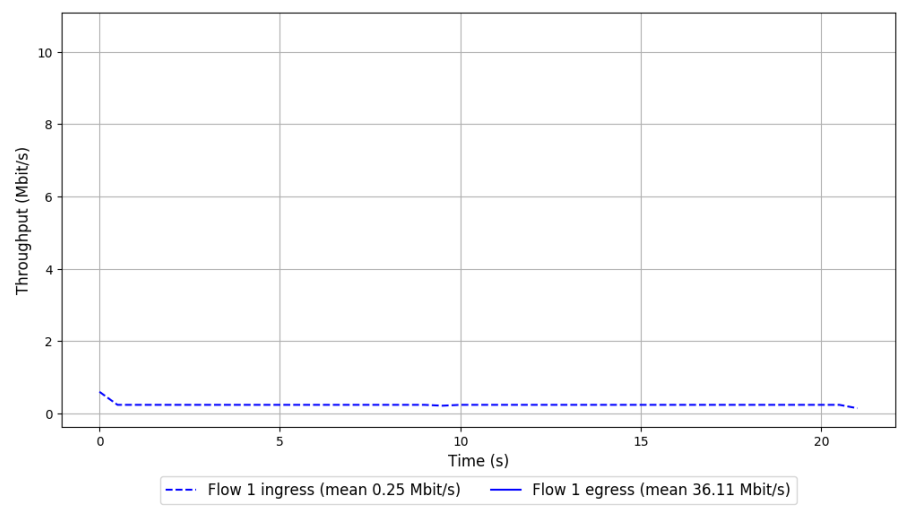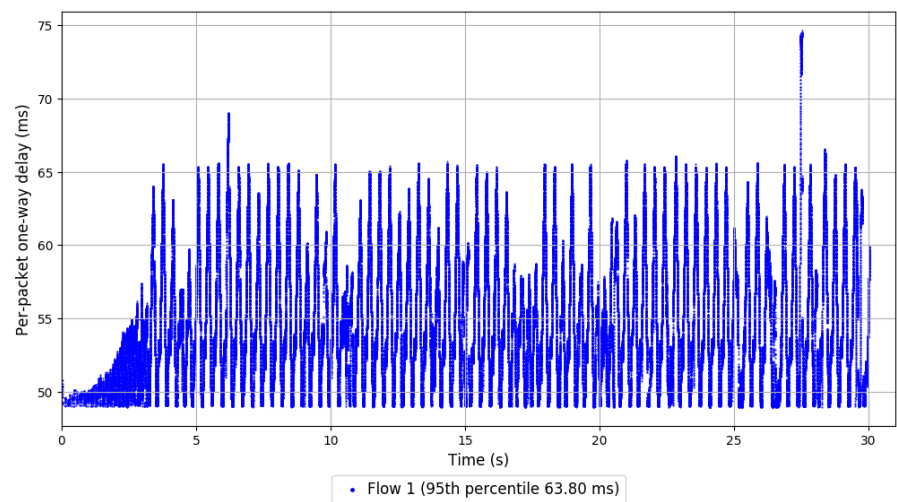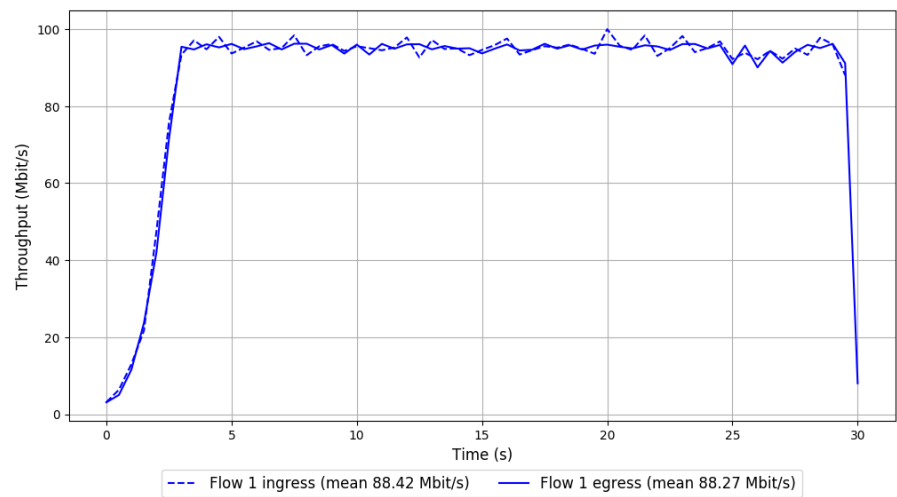
Run 1: Report of CalibratedKoho — Data Link

```
Run 2: Statistics of CalibratedKoho

Start at: Mon, 24 Jul 2017 20:38:41 +0000
End at: Mon, 24 Jul 2017 20:39:11 +0000
Local clock offset: 0.156 ms
Remote clock offset: -3.726 ms
```

Run 2: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 0.25 Mbit/s)   Flow 1 egress (mean 36.11 Mbit/s)

Flow 1 (95th percentile 20932.17 ms)

```
Run 3: Statistics of CalibratedKoho

Start at: Mon, 24 Jul 2017 20:59:22 +0000
End at: Mon, 24 Jul 2017 20:59:52 +0000
Local clock offset: 0.239 ms
Remote clock offset: -1.248 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:26:28 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.27 Mbit/s
95th percentile per-packet one-way delay: 63.803 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 88.27 Mbit/s
95th percentile per-packet one-way delay: 63.803 ms
Loss rate: 0.13%
```
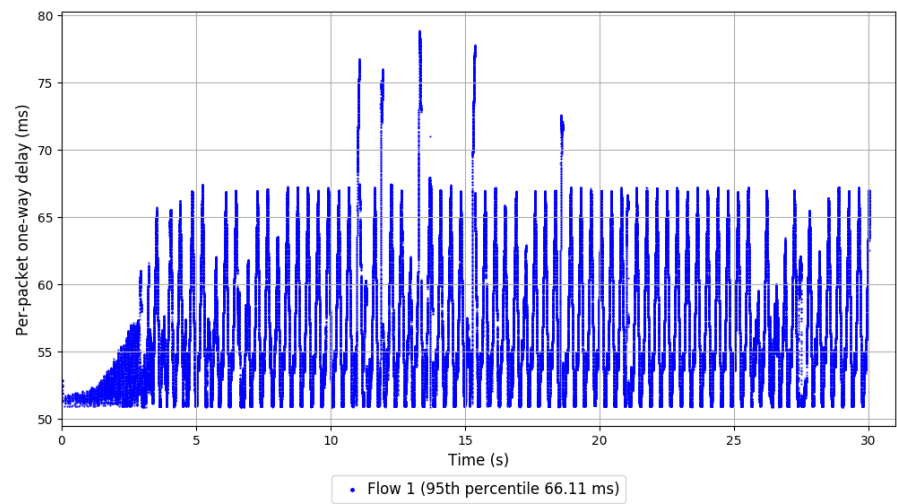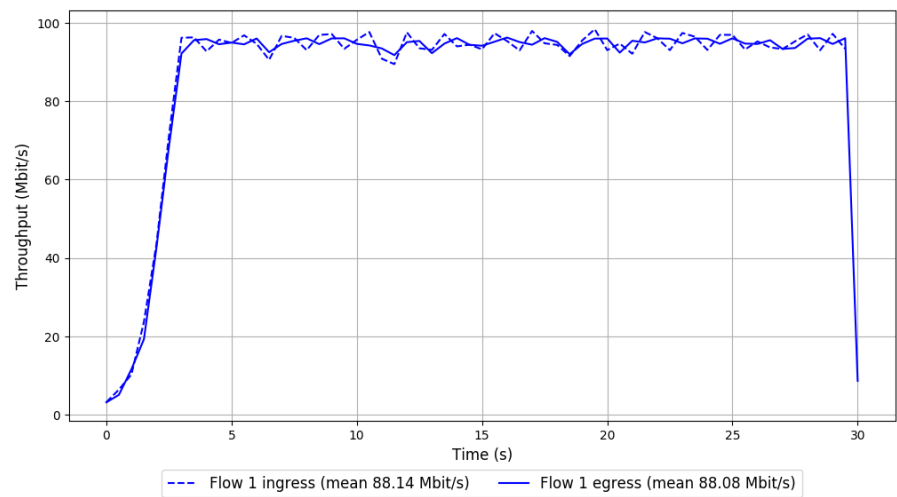
Run 3: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 88.42 Mbit/s)   Flow 1 egress (mean 88.27 Mbit/s)

Flow 1 (95th percentile 63.80 ms)

```
Run 4: Statistics of CalibratedKoho

Start at: Mon, 24 Jul 2017 21:21:19 +0000
End at: Mon, 24 Jul 2017 21:21:49 +0000
Local clock offset: 0.263 ms
Remote clock offset: -0.757 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:26:35 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.08 Mbit/s
95th percentile per-packet one-way delay: 66.105 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 88.08 Mbit/s
95th percentile per-packet one-way delay: 66.105 ms
Loss rate: 0.03%
```
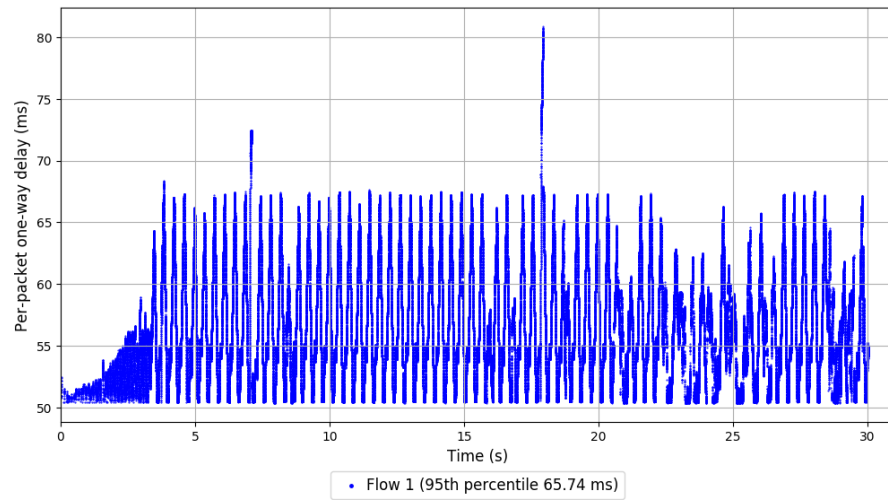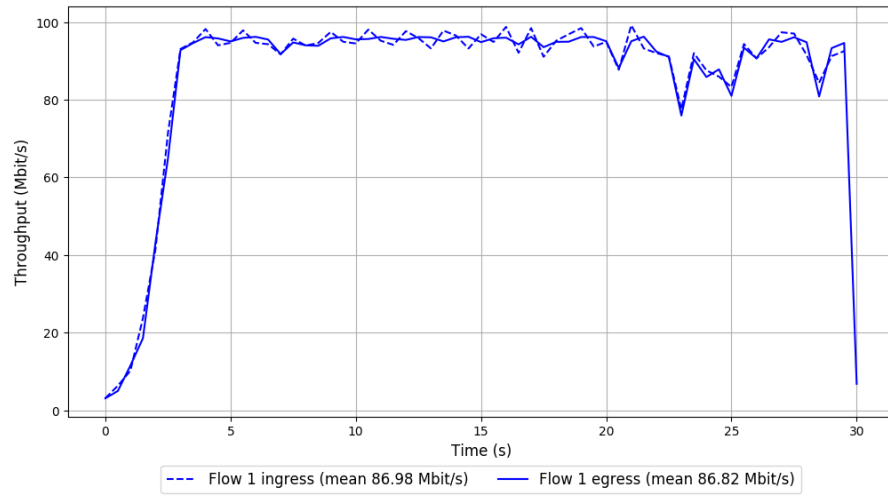
Run 4: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 88.14 Mbit/s)   Flow 1 egress (mean 88.08 Mbit/s)

Flow 1 (95th percentile 66.11 ms)

```
Run 5: Statistics of CalibratedKoho

Start at: Mon, 24 Jul 2017 21:42:18 +0000
End at: Mon, 24 Jul 2017 21:42:48 +0000
Local clock offset: 0.429 ms
Remote clock offset: -1.464 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:26:40 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.82 Mbit/s
95th percentile per-packet one-way delay: 65.743 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 86.82 Mbit/s
95th percentile per-packet one-way delay: 65.743 ms
Loss rate: 0.20%
```
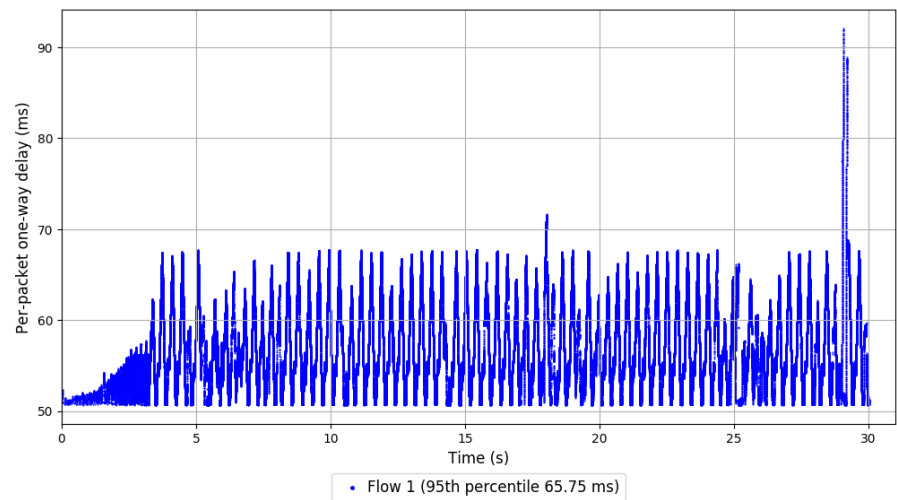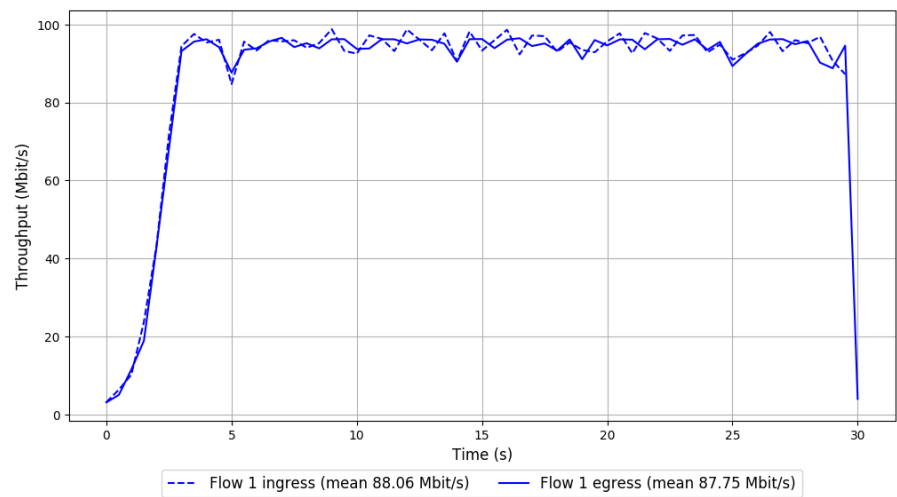
Run 5: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 86.98 Mbit/s)   Flow 1 egress (mean 86.82 Mbit/s)

• Flow 1 (95th percentile 65.74 ms)

```
Run 6: Statistics of CalibratedKoho

Start at: Mon, 24 Jul 2017 22:02:42 +0000
End at: Mon, 24 Jul 2017 22:03:12 +0000
Local clock offset: 0.459 ms
Remote clock offset: -1.2 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:26:47 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.75 Mbit/s
95th percentile per-packet one-way delay: 65.746 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 87.75 Mbit/s
95th percentile per-packet one-way delay: 65.746 ms
Loss rate: 0.35%
```
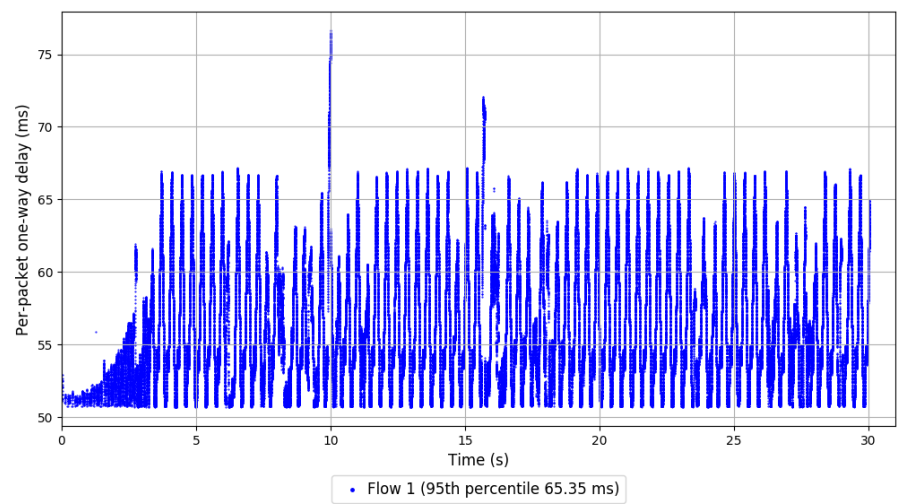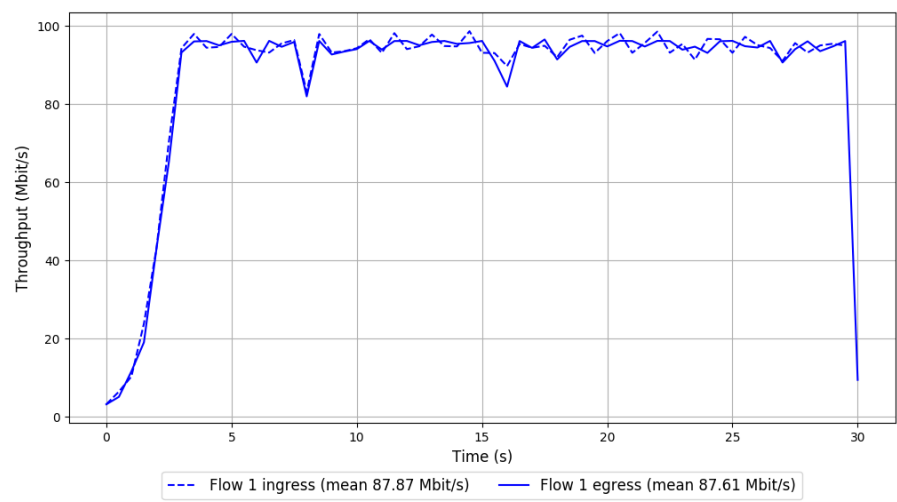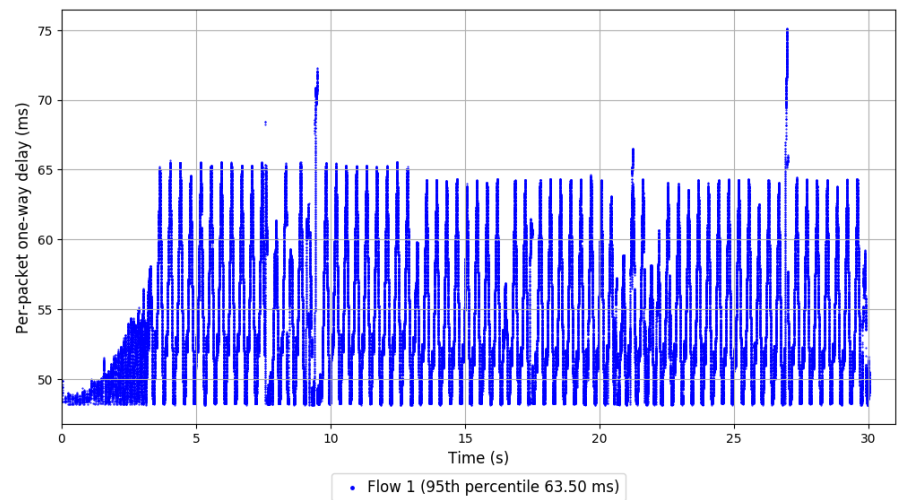
Run 6: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 88.06 Mbit/s)   Flow 1 egress (mean 87.75 Mbit/s)

Flow 1 (95th percentile 65.75 ms)

```
Run 7: Statistics of CalibratedKoho

Start at: Mon, 24 Jul 2017 22:23:44 +0000
End at: Mon, 24 Jul 2017 22:24:14 +0000
Local clock offset: 0.392 ms
Remote clock offset: -1.858 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:26:51 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.61 Mbit/s
95th percentile per-packet one-way delay: 65.352 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 87.61 Mbit/s
95th percentile per-packet one-way delay: 65.352 ms
Loss rate: 0.26%
```
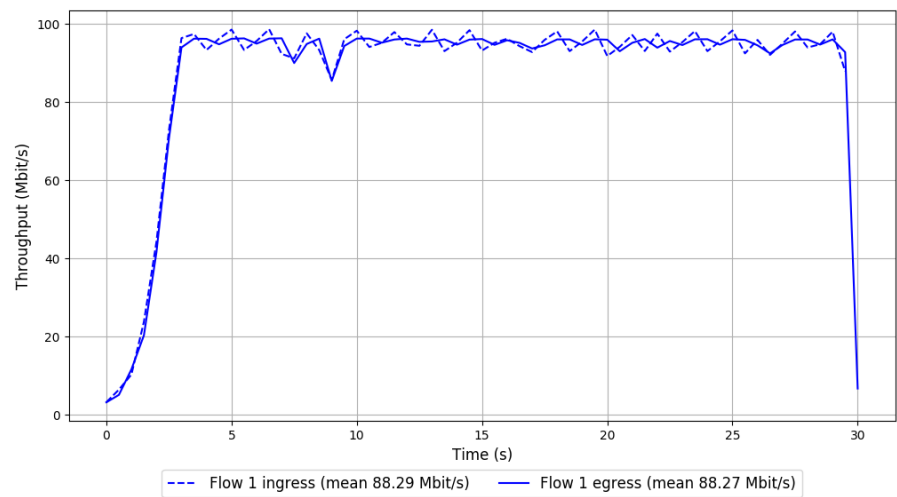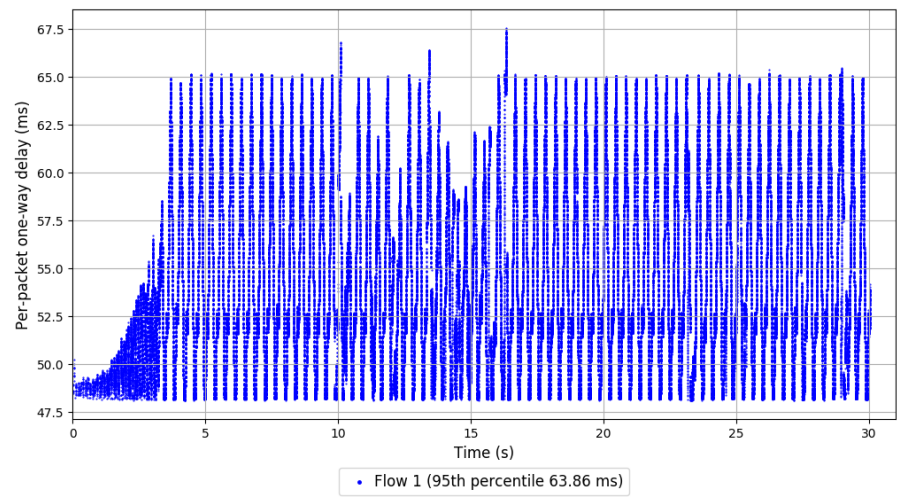
Run 7: Report of CalibratedKoho — Data Link

```
Run 8: Statistics of CalibratedKoho

Start at: Mon, 24 Jul 2017 22:46:14 +0000
End at: Mon, 24 Jul 2017 22:46:44 +0000
Local clock offset: 0.426 ms
Remote clock offset: -4.369 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:26:58 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.27 Mbit/s
95th percentile per-packet one-way delay: 63.499 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 88.27 Mbit/s
95th percentile per-packet one-way delay: 63.499 ms
Loss rate: 0.04%
```
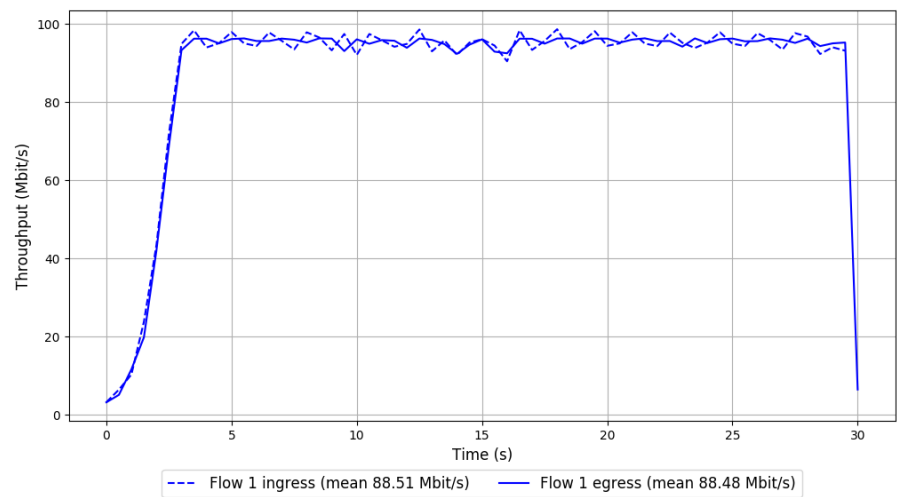
Run 8: Report of CalibratedKoho — Data Link

```
Run 9: Statistics of CalibratedKoho

Start at: Mon, 24 Jul 2017 23:09:19 +0000
End at: Mon, 24 Jul 2017 23:09:49 +0000
Local clock offset: 0.427 ms
Remote clock offset: -4.733 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:27:03 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.48 Mbit/s
95th percentile per-packet one-way delay: 63.862 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.48 Mbit/s
95th percentile per-packet one-way delay: 63.862 ms
Loss rate: 0.01%
```
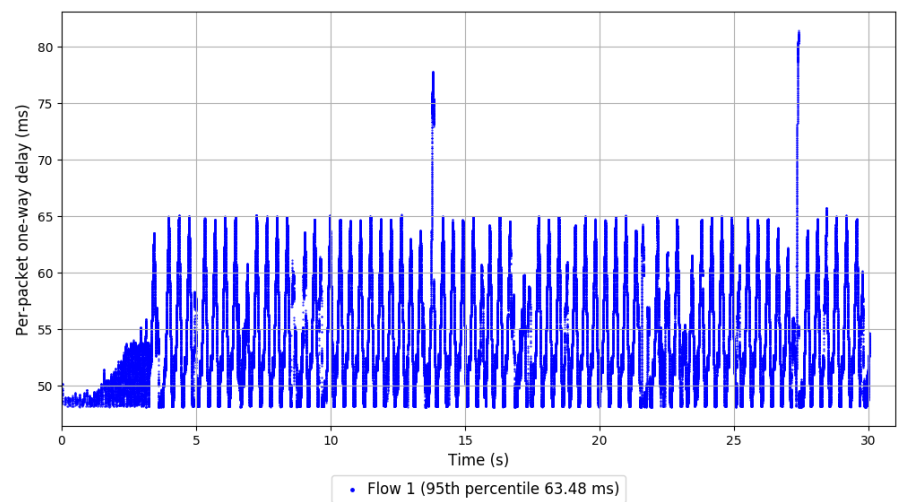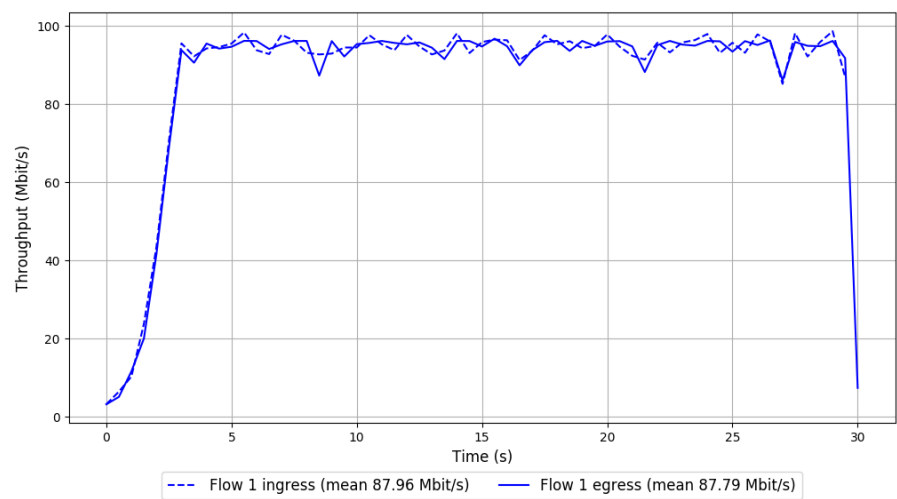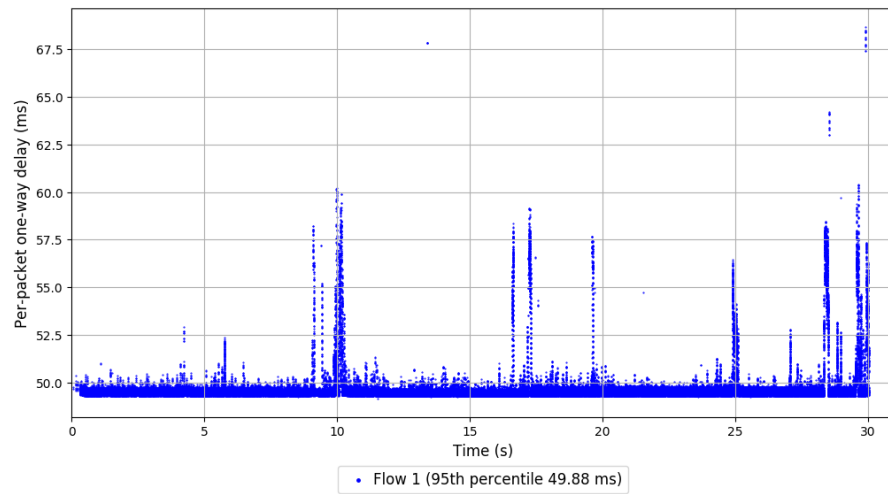
Run 9: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 88.51 Mbit/s)   Flow 1 egress (mean 88.48 Mbit/s)

Flow 1 (95th percentile 63.86 ms)

```
Run 10: Statistics of CalibratedKoho

Start at: Mon, 24 Jul 2017 23:30:17 +0000
End at: Mon, 24 Jul 2017 23:30:47 +0000
Local clock offset: 0.26 ms
Remote clock offset: -4.98 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:27:13 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.79 Mbit/s
95th percentile per-packet one-way delay: 63.477 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 87.79 Mbit/s
95th percentile per-packet one-way delay: 63.477 ms
Loss rate: 0.17%
```
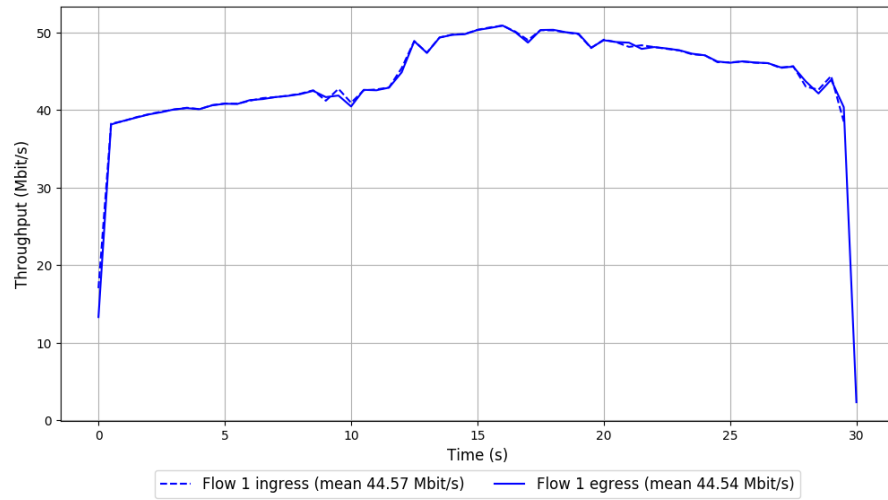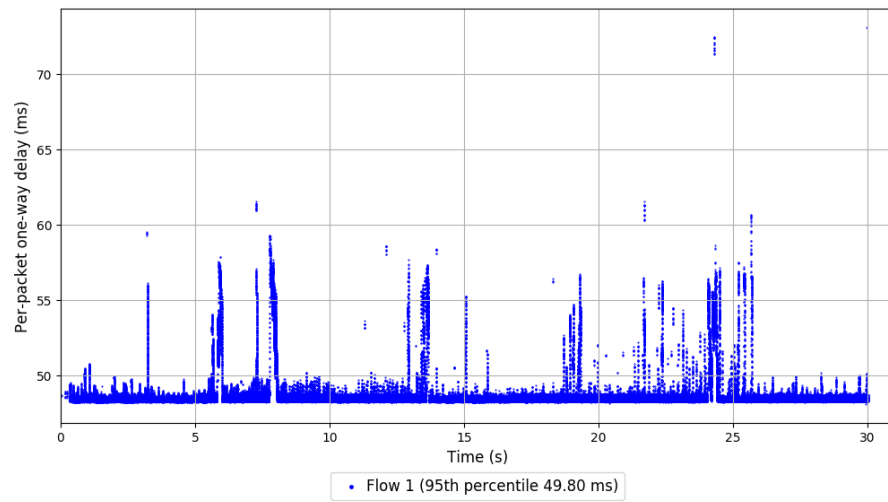
Run 10: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 87.96 Mbit/s)　　　Flow 1 egress (mean 87.79 Mbit/s)

Flow 1 (95th percentile 63.48 ms)

```
Run 1: Statistics of Copa

Start at: Mon, 24 Jul 2017 20:04:16 +0000
End at: Mon, 24 Jul 2017 20:04:46 +0000
Local clock offset: -0.058 ms
Remote clock offset: -0.314 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:27:14 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.54 Mbit/s
95th percentile per-packet one-way delay: 49.875 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 44.54 Mbit/s
95th percentile per-packet one-way delay: 49.875 ms
Loss rate: 0.08%
```
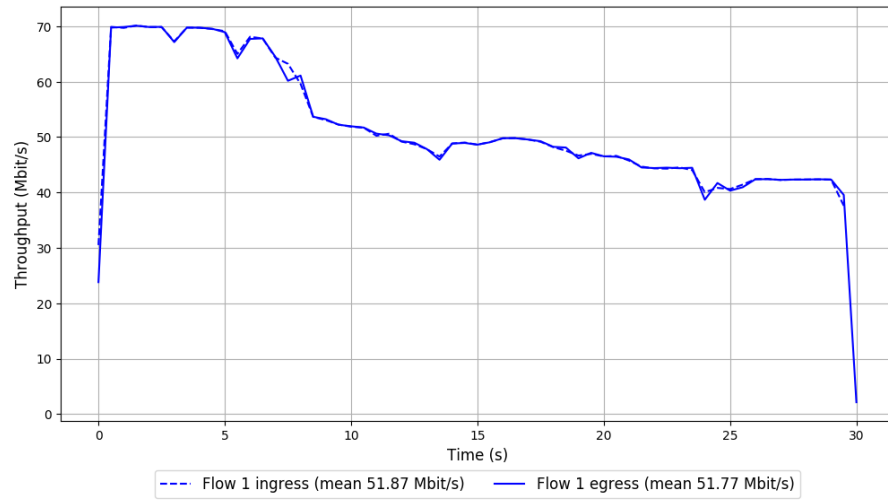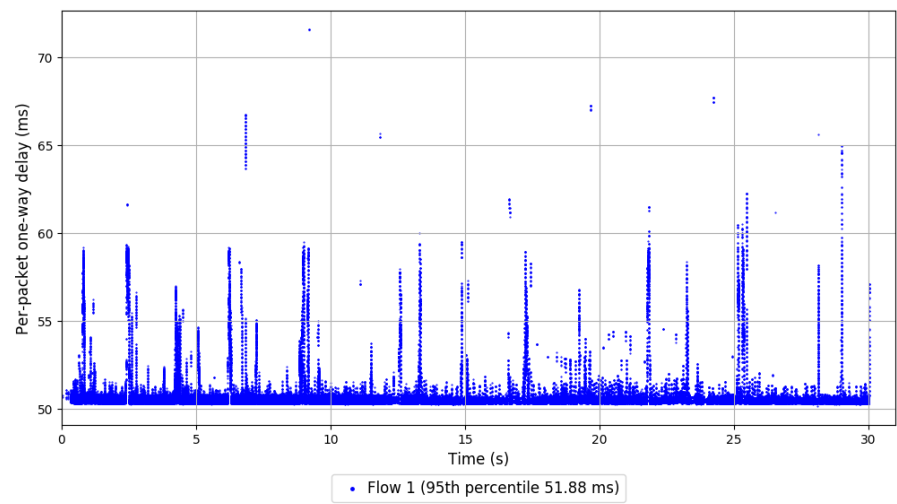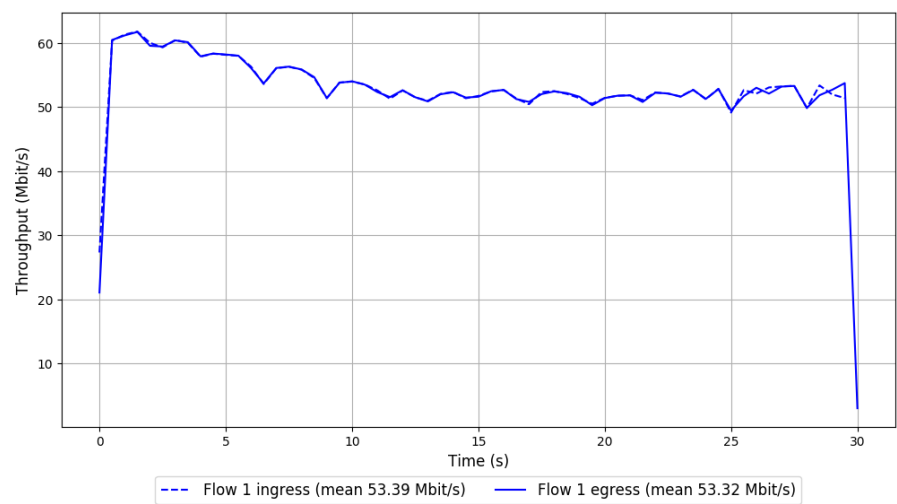
Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 44.57 Mbit/s)   Flow 1 egress (mean 44.54 Mbit/s)

Flow 1 (95th percentile 49.88 ms)

```
Run 2: Statistics of Copa

Start at: Mon, 24 Jul 2017 20:24:54 +0000
End at: Mon, 24 Jul 2017 20:25:24 +0000
Local clock offset: -0.049 ms
Remote clock offset: -3.519 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:27:23 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.77 Mbit/s
95th percentile per-packet one-way delay: 49.795 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 51.77 Mbit/s
95th percentile per-packet one-way delay: 49.795 ms
Loss rate: 0.19%
```
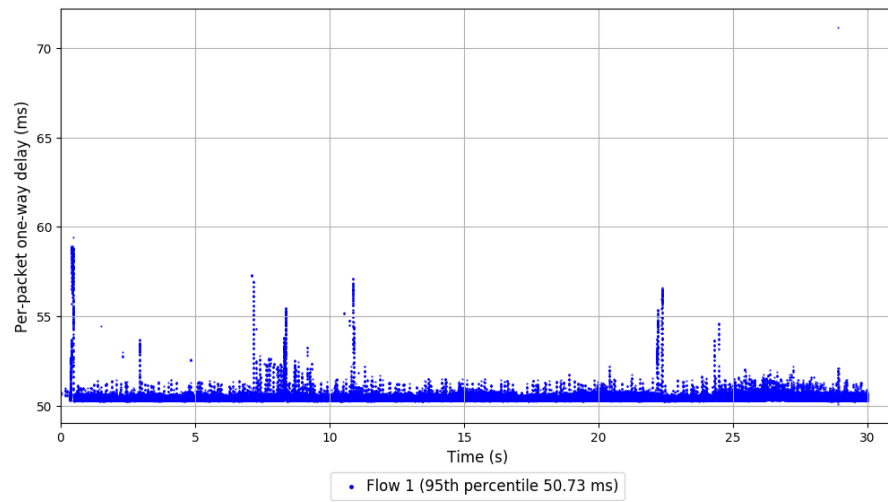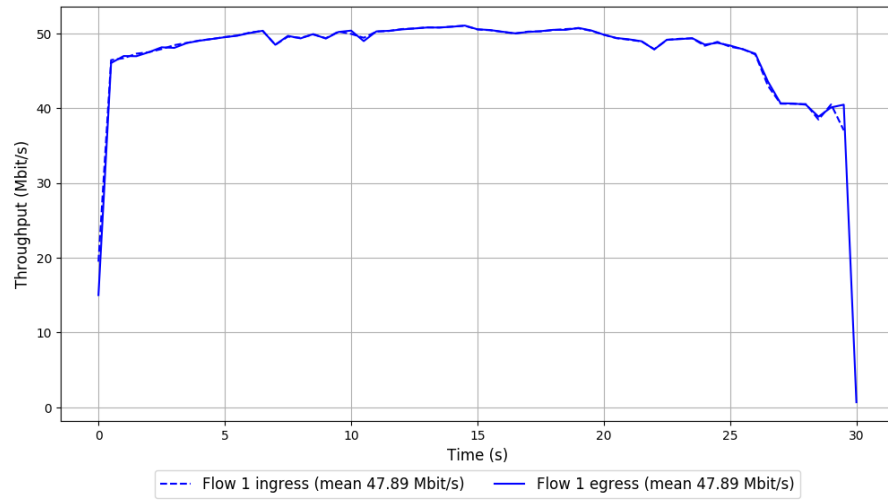
Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 51.87 Mbit/s) ----- Flow 1 egress (mean 51.77 Mbit/s)

• Flow 1 (95th percentile 49.80 ms)

```
Run 3: Statistics of Copa

Start at: Mon, 24 Jul 2017 20:45:25 +0000
End at: Mon, 24 Jul 2017 20:45:55 +0000
Local clock offset: 0.199 ms
Remote clock offset: -1.659 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:27:27 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.32 Mbit/s
95th percentile per-packet one-way delay: 51.875 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 53.32 Mbit/s
95th percentile per-packet one-way delay: 51.875 ms
Loss rate: 0.10%
```
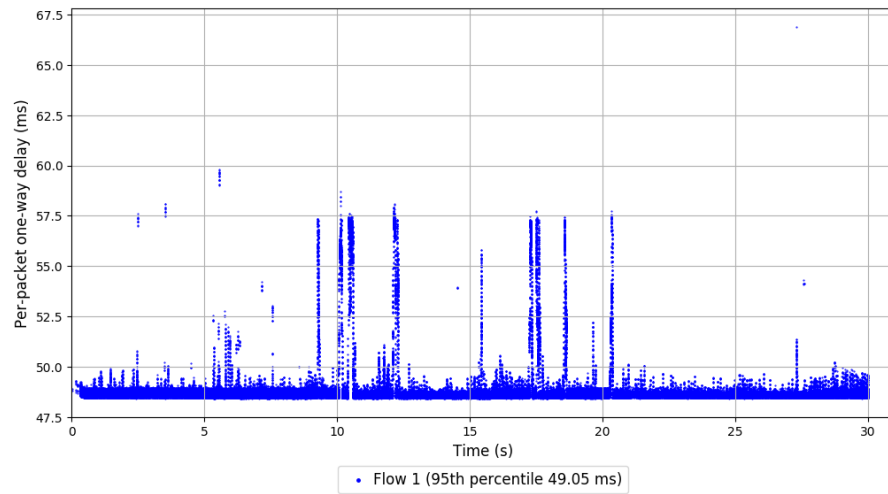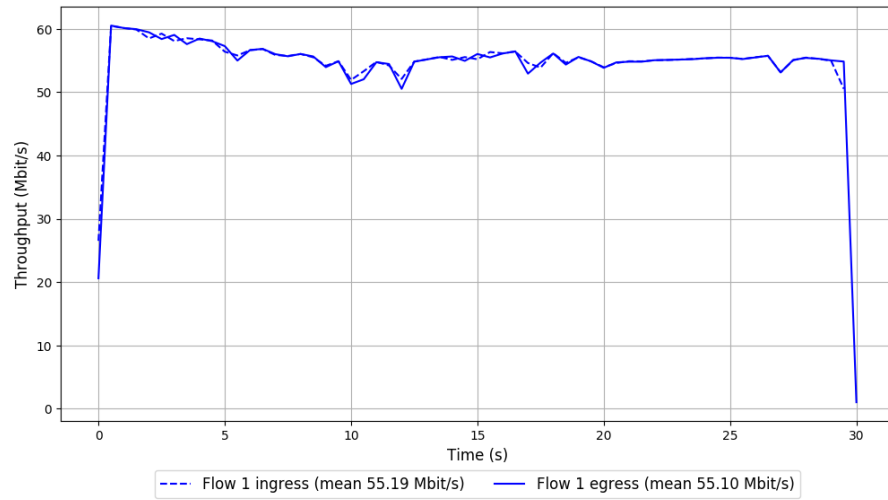
Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: Mon, 24 Jul 2017 21:06:35 +0000
End at: Mon, 24 Jul 2017 21:07:05 +0000
Local clock offset: 0.356 ms
Remote clock offset: -1.201 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:27:34 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.89 Mbit/s
95th percentile per-packet one-way delay: 50.726 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.89 Mbit/s
95th percentile per-packet one-way delay: 50.726 ms
Loss rate: 0.00%
```
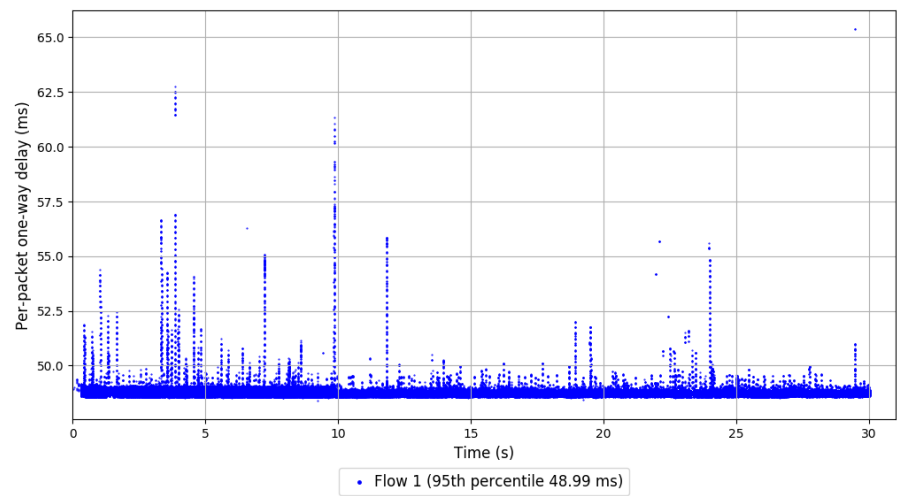
Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: Mon, 24 Jul 2017 21:28:32 +0000
End at: Mon, 24 Jul 2017 21:29:02 +0000
Local clock offset: 0.379 ms
Remote clock offset: -3.342 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:27:40 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.10 Mbit/s
95th percentile per-packet one-way delay: 49.054 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 55.10 Mbit/s
95th percentile per-packet one-way delay: 49.054 ms
Loss rate: 0.15%
```
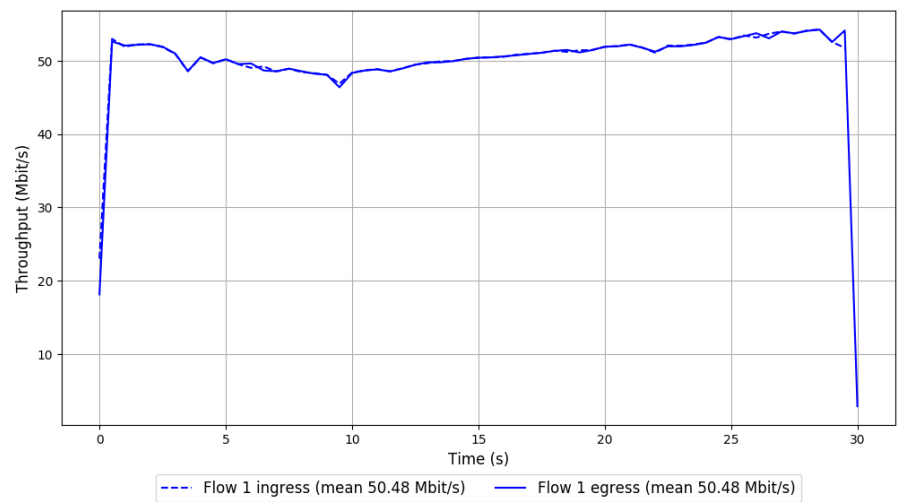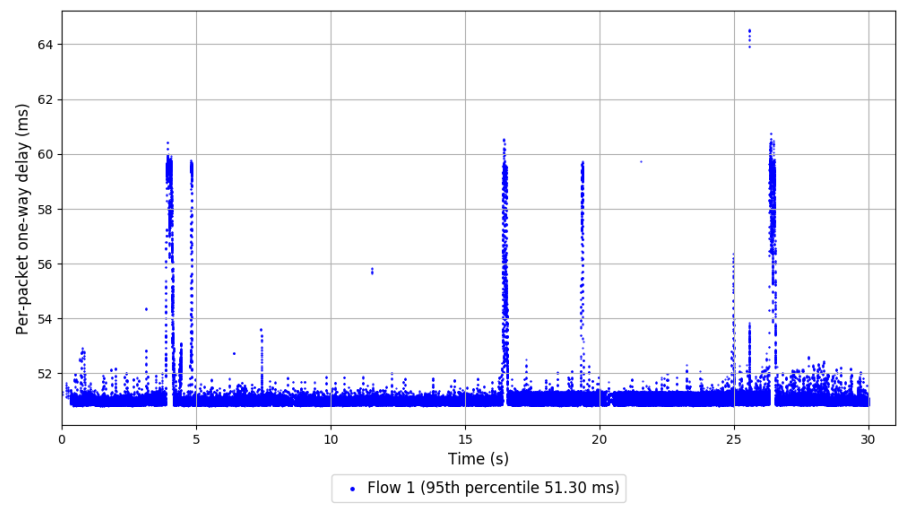
Run 5: Report of Copa — Data Link

```
Run 6: Statistics of Copa

Start at: Mon, 24 Jul 2017 21:49:20 +0000
End at: Mon, 24 Jul 2017 21:49:50 +0000
Local clock offset: 0.347 ms
Remote clock offset: -3.464 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:27:47 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.48 Mbit/s
95th percentile per-packet one-way delay: 48.991 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.48 Mbit/s
95th percentile per-packet one-way delay: 48.991 ms
Loss rate: 0.02%
```
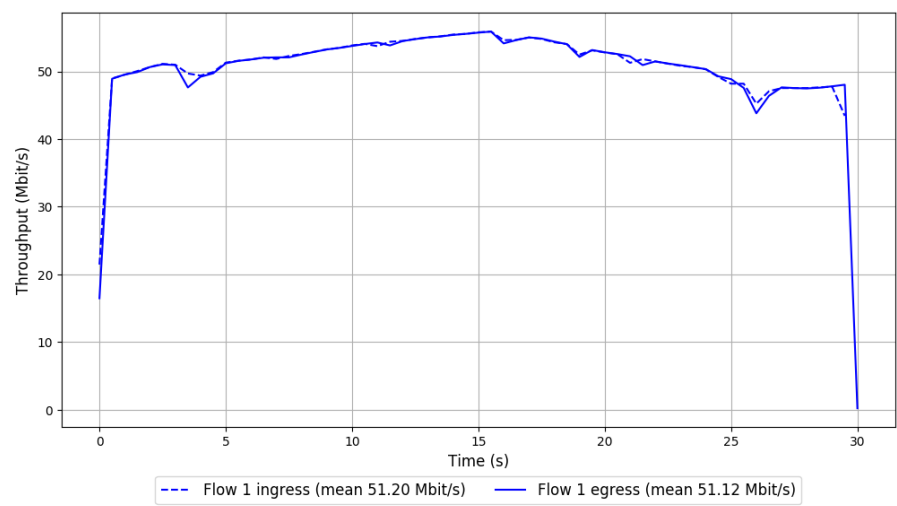
Run 6: Report of Copa — Data Link

```
Run 7: Statistics of Copa

Start at: Mon, 24 Jul 2017 22:09:35 +0000
End at: Mon, 24 Jul 2017 22:10:05 +0000
Local clock offset: 0.463 ms
Remote clock offset: -1.371 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:27:53 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.12 Mbit/s
95th percentile per-packet one-way delay: 51.295 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 51.12 Mbit/s
95th percentile per-packet one-way delay: 51.295 ms
Loss rate: 0.19%
```
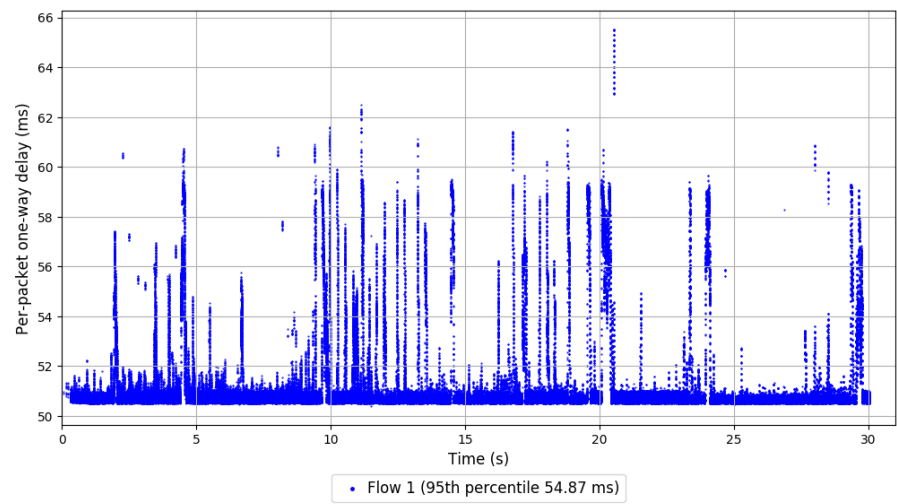
Run 7: Report of Copa — Data Link

```
Run 8: Statistics of Copa

Start at: Mon, 24 Jul 2017 22:31:11 +0000
End at: Mon, 24 Jul 2017 22:31:41 +0000
Local clock offset: 0.402 ms
Remote clock offset: -2.128 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:28:01 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 54.874 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 54.874 ms
Loss rate: 0.22%
```
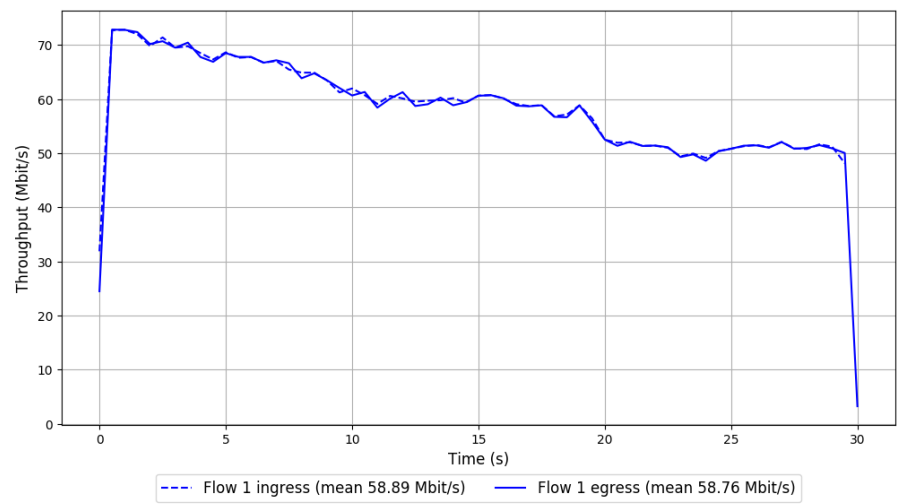
Run 8: Report of Copa — Data Link

```
Run 9: Statistics of Copa

Start at: Mon, 24 Jul 2017 22:54:14 +0000
End at: Mon, 24 Jul 2017 22:54:44 +0000
Local clock offset: 0.329 ms
Remote clock offset: -4.346 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:28:08 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.73 Mbit/s
95th percentile per-packet one-way delay: 48.939 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 62.73 Mbit/s
95th percentile per-packet one-way delay: 48.939 ms
Loss rate: 0.08%
```
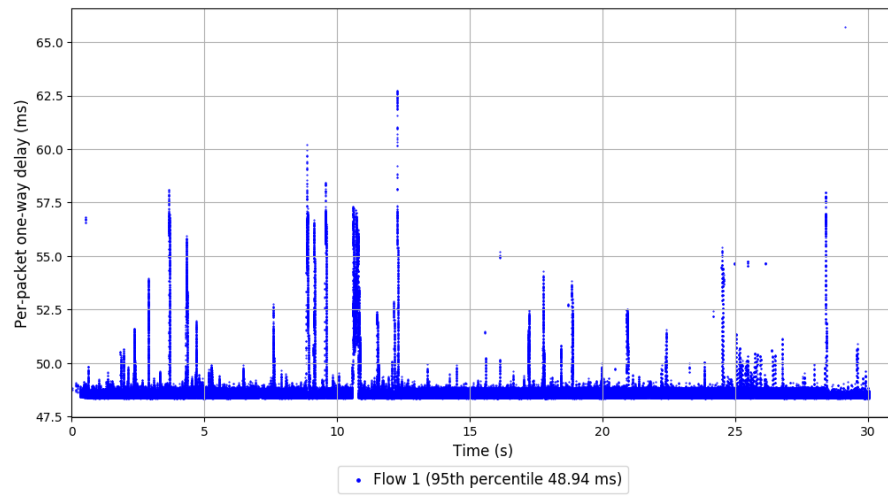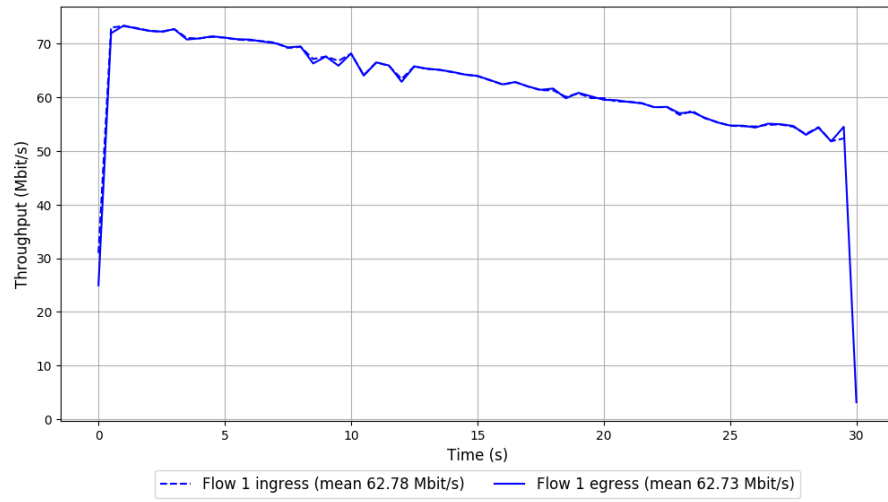
Run 9: Report of Copa — Data Link

```
Run 10: Statistics of Copa

Start at: Mon, 24 Jul 2017 23:16:22 +0000
End at: Mon, 24 Jul 2017 23:16:52 +0000
Local clock offset: 0.367 ms
Remote clock offset: -4.751 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:28:13 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.19 Mbit/s
95th percentile per-packet one-way delay: 48.764 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 49.19 Mbit/s
95th percentile per-packet one-way delay: 48.764 ms
Loss rate: 0.01%
```
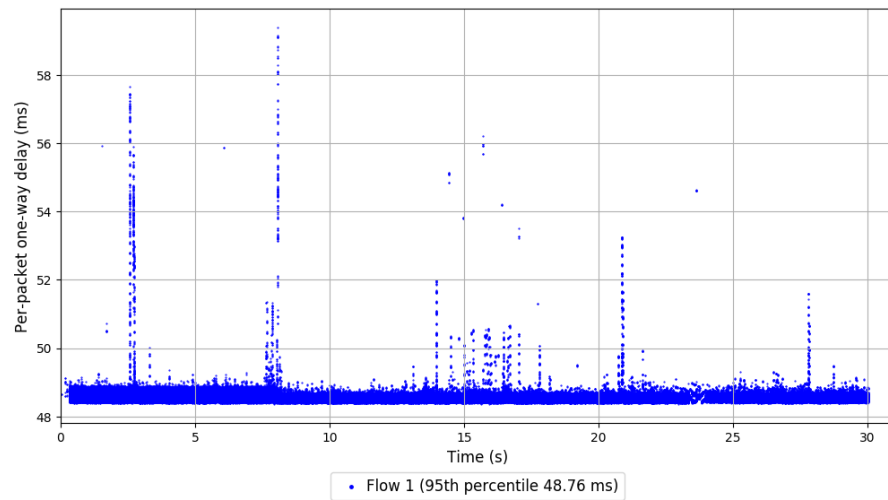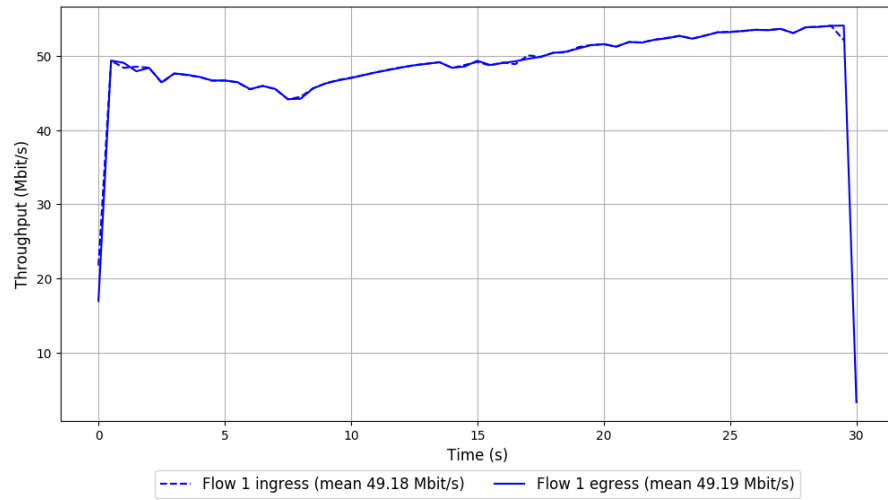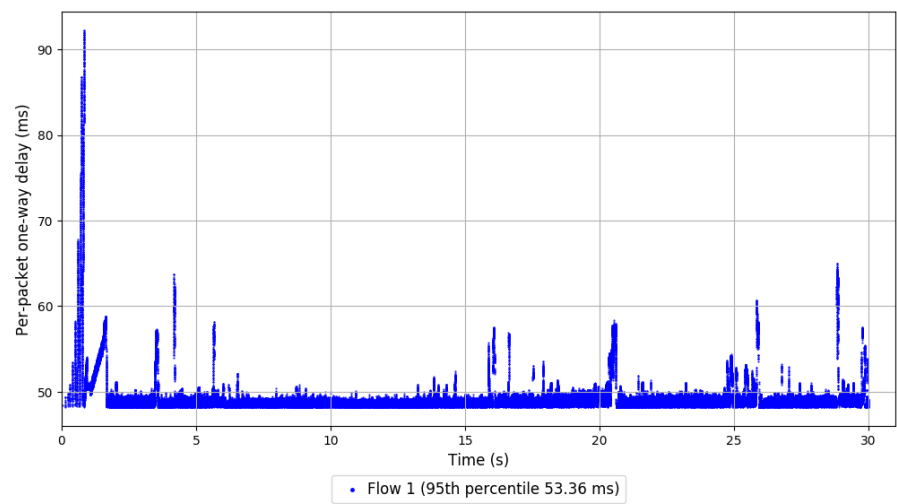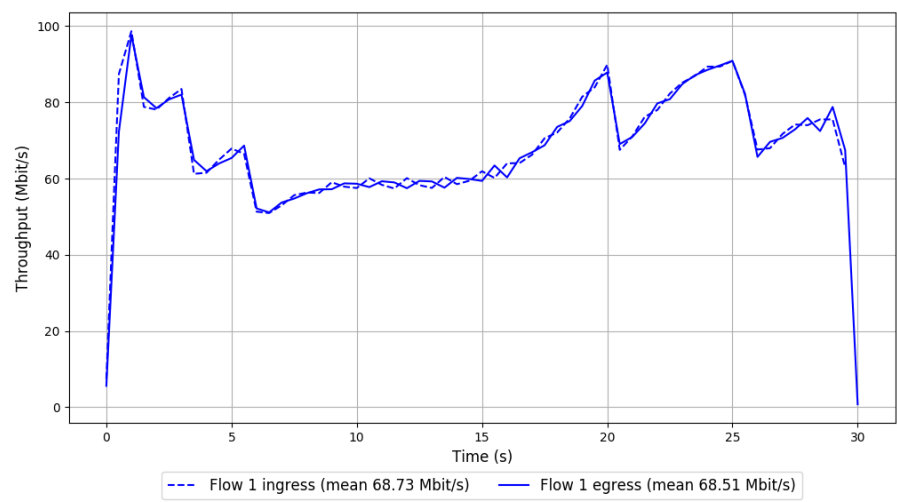
Run 10: Report of Copa — Data Link

Flow 1 ingress (mean 49.18 Mbit/s) --- Flow 1 egress (mean 49.19 Mbit/s)

Flow 1 (95th percentile 48.76 ms)

```
Run 1: Statistics of TCP Cubic

Start at: Mon, 24 Jul 2017 20:12:14 +0000
End at: Mon, 24 Jul 2017 20:12:44 +0000
Local clock offset: -0.009 ms
Remote clock offset: -2.939 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:28:18 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.51 Mbit/s
95th percentile per-packet one-way delay: 53.356 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 68.51 Mbit/s
95th percentile per-packet one-way delay: 53.356 ms
Loss rate: 0.32%
```

Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: Mon, 24 Jul 2017 20:33:07 +0000
End at: Mon, 24 Jul 2017 20:33:37 +0000
Local clock offset: 0.137 ms
Remote clock offset: -1.091 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:28:21 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.15 Mbit/s
95th percentile per-packet one-way delay: 54.296 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 52.15 Mbit/s
95th percentile per-packet one-way delay: 54.296 ms
Loss rate: 0.39%
```
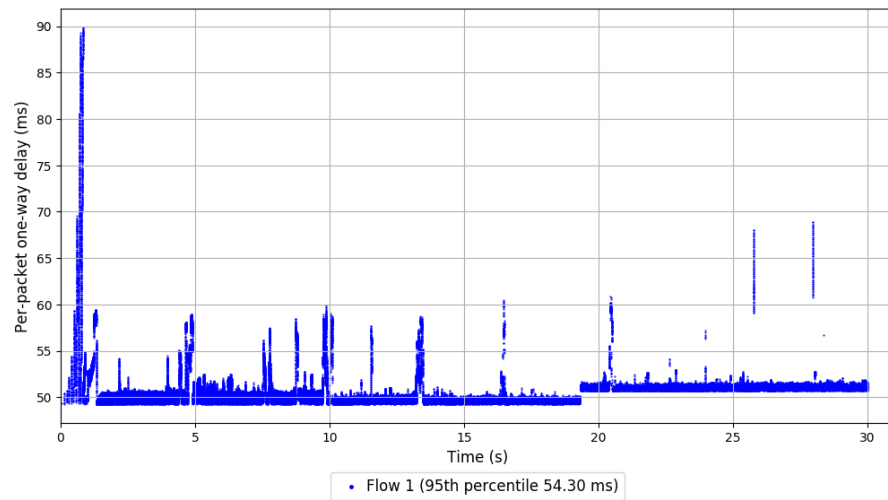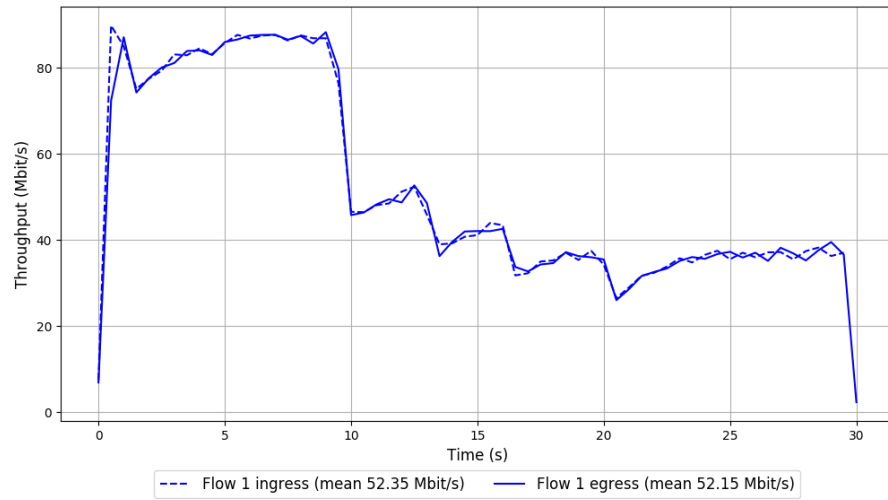
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: Mon, 24 Jul 2017 20:53:35 +0000
End at: Mon, 24 Jul 2017 20:54:05 +0000
Local clock offset: 0.256 ms
Remote clock offset: -3.543 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:28:28 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.25 Mbit/s
95th percentile per-packet one-way delay: 66.930 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 79.25 Mbit/s
95th percentile per-packet one-way delay: 66.930 ms
Loss rate: 0.28%
```
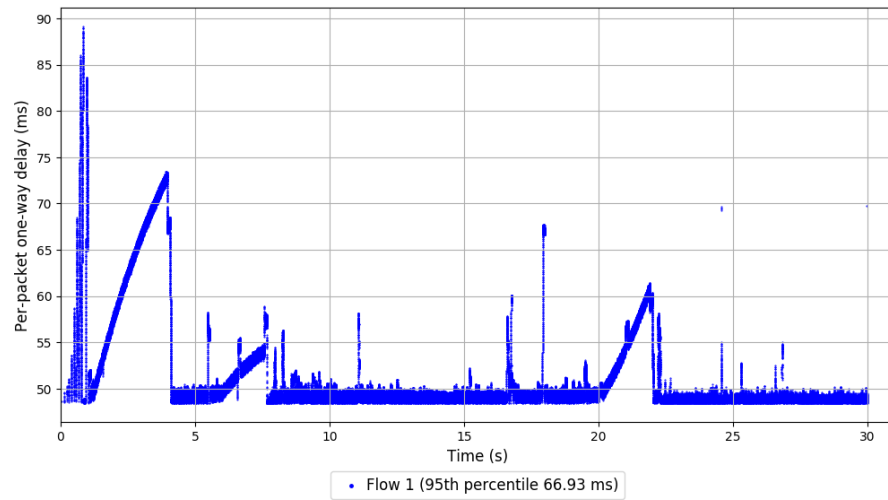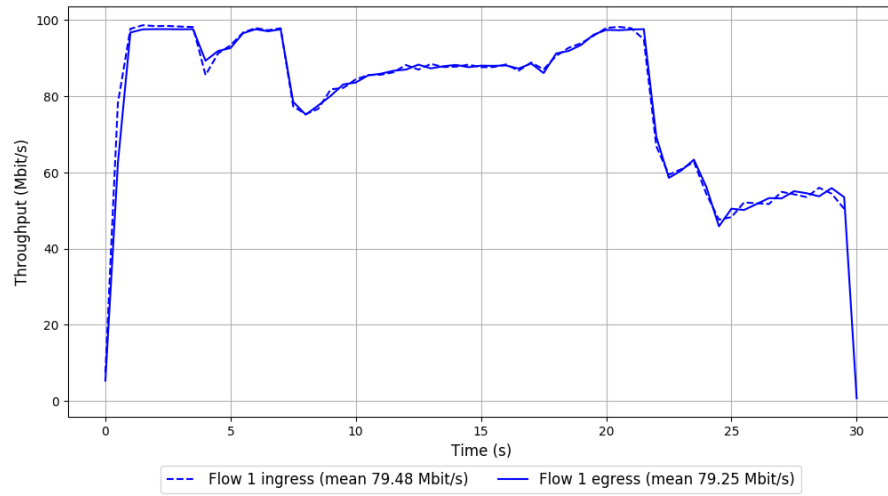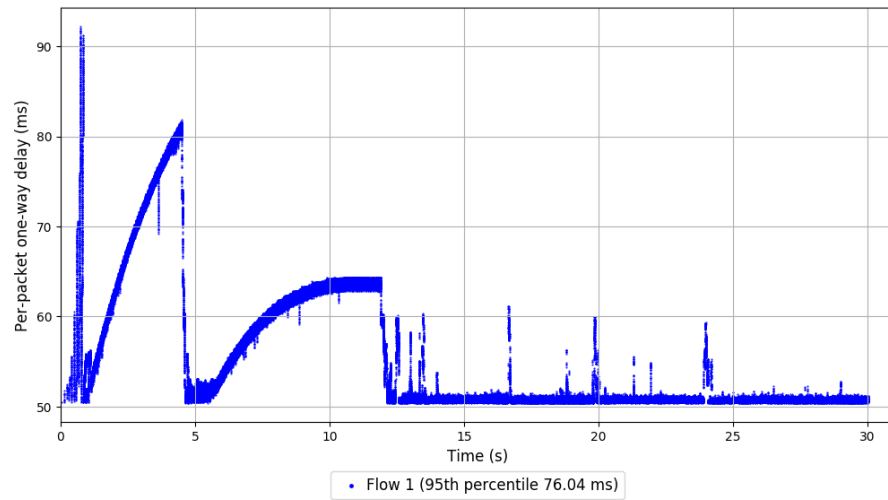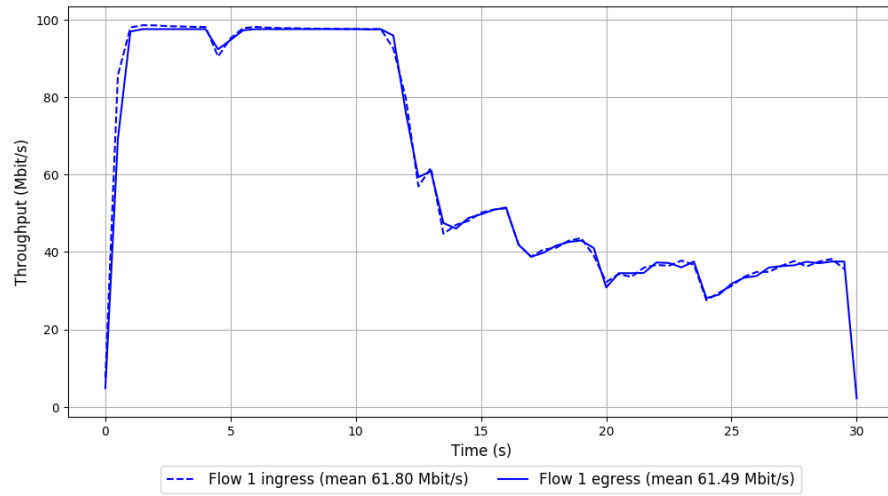
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 79.48 Mbit/s) --- Flow 1 egress (mean 79.25 Mbit/s)

• Flow 1 (95th percentile 66.93 ms)

```
Run 4: Statistics of TCP Cubic

Start at: Mon, 24 Jul 2017 21:15:01 +0000
End at: Mon, 24 Jul 2017 21:15:31 +0000
Local clock offset: 0.363 ms
Remote clock offset: -1.308 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:28:30 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.49 Mbit/s
95th percentile per-packet one-way delay: 76.037 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 61.49 Mbit/s
95th percentile per-packet one-way delay: 76.037 ms
Loss rate: 0.53%
```

Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: Mon, 24 Jul 2017 21:36:40 +0000
End at: Mon, 24 Jul 2017 21:37:10 +0000
Local clock offset: 0.341 ms
Remote clock offset: -3.385 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:28:36 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.65 Mbit/s
95th percentile per-packet one-way delay: 73.669 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 65.65 Mbit/s
95th percentile per-packet one-way delay: 73.669 ms
Loss rate: 0.27%
```
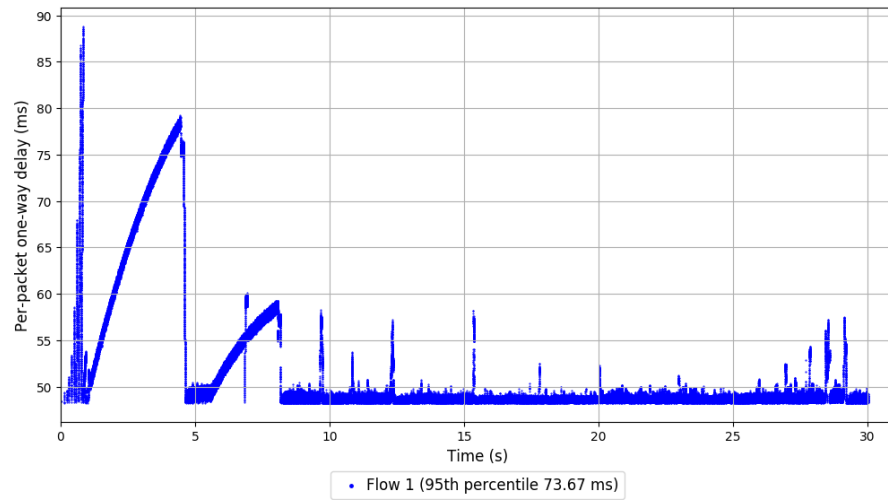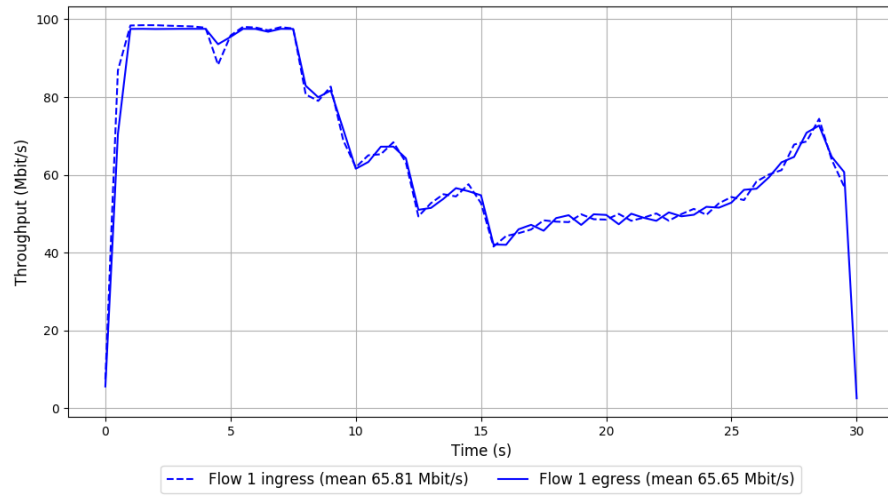
Run 5: Report of TCP Cubic — Data Link

```
Run 6: Statistics of TCP Cubic

Start at: Mon, 24 Jul 2017 21:57:17 +0000
End at: Mon, 24 Jul 2017 21:57:47 +0000
Local clock offset: 0.367 ms
Remote clock offset: -1.49 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:28:40 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.76 Mbit/s
95th percentile per-packet one-way delay: 74.139 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 69.76 Mbit/s
95th percentile per-packet one-way delay: 74.139 ms
Loss rate: 0.16%
```
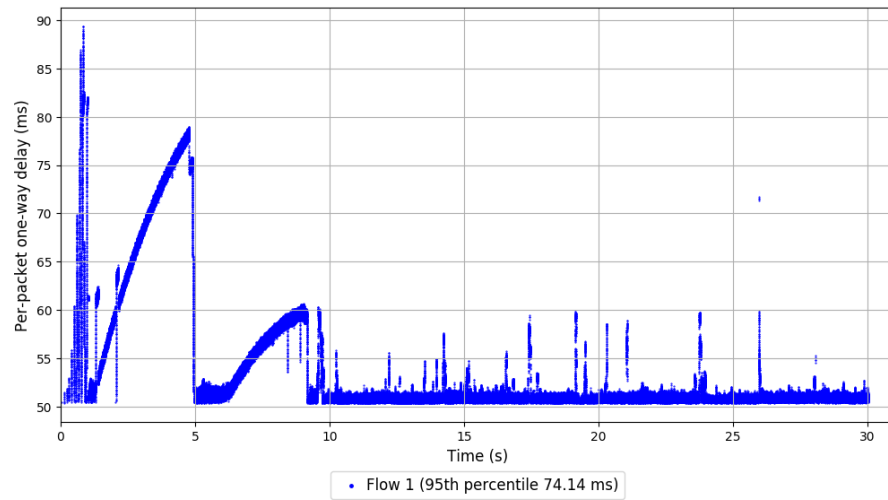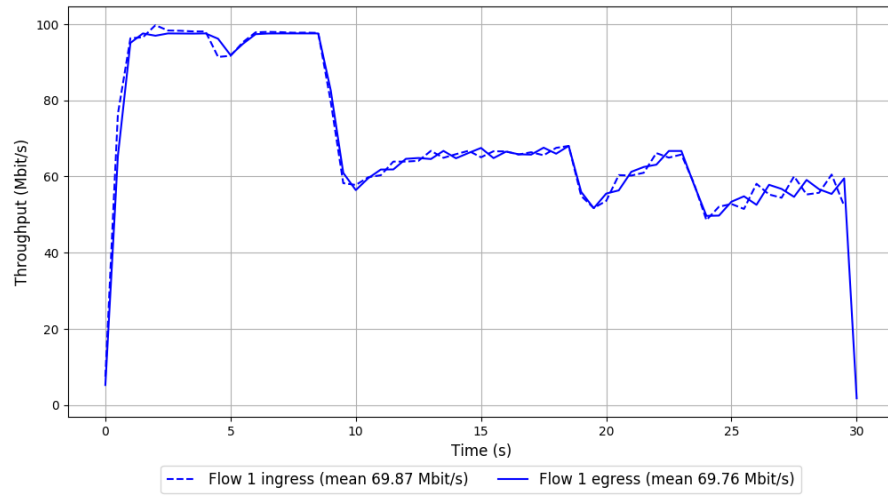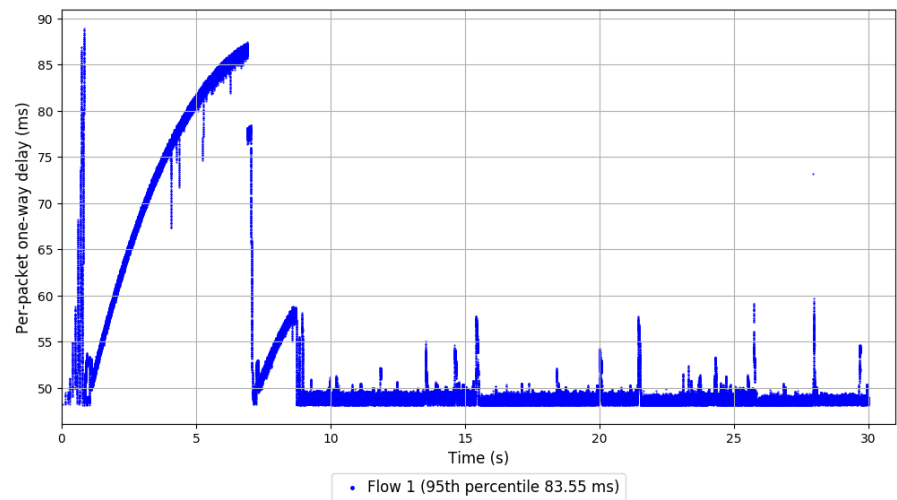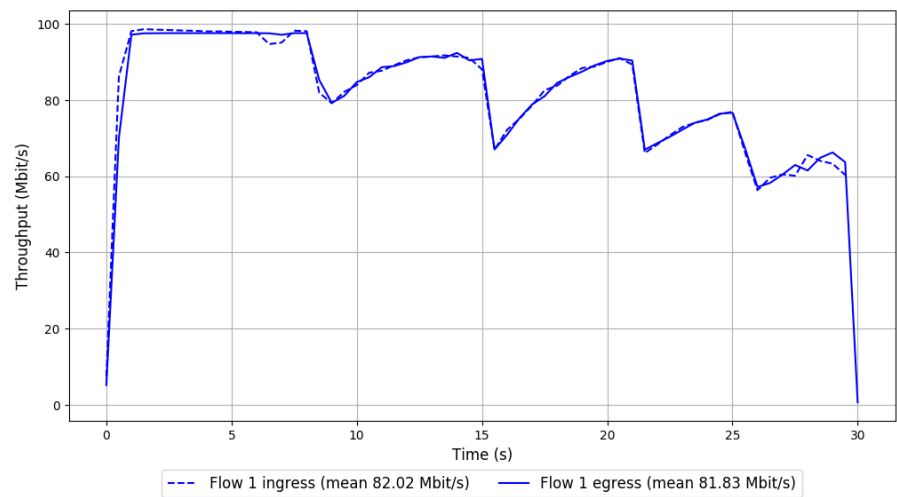
Run 6: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 69.87 Mbit/s)   Flow 1 egress (mean 69.76 Mbit/s)

Flow 1 (95th percentile 74.14 ms)

```
Run 7: Statistics of TCP Cubic

Start at: Mon, 24 Jul 2017 22:17:55 +0000
End at: Mon, 24 Jul 2017 22:18:25 +0000
Local clock offset: 0.485 ms
Remote clock offset: -3.988 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:28:48 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.83 Mbit/s
95th percentile per-packet one-way delay: 83.550 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 81.83 Mbit/s
95th percentile per-packet one-way delay: 83.550 ms
Loss rate: 0.23%
```
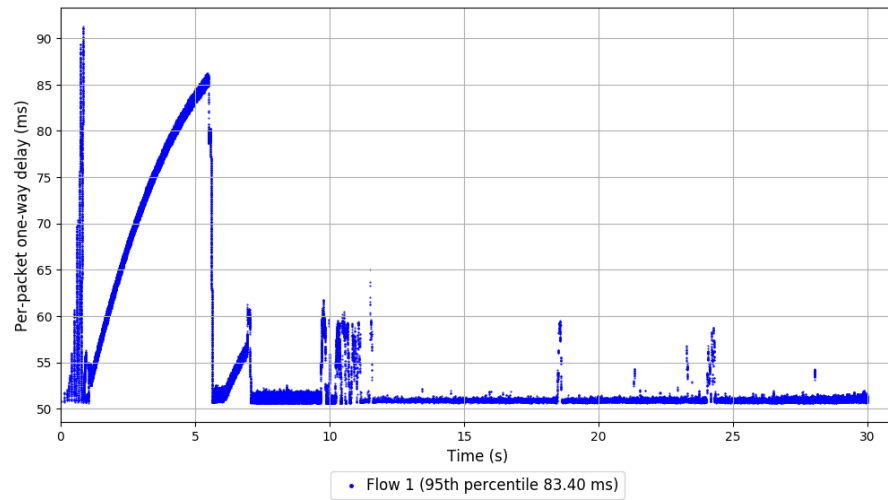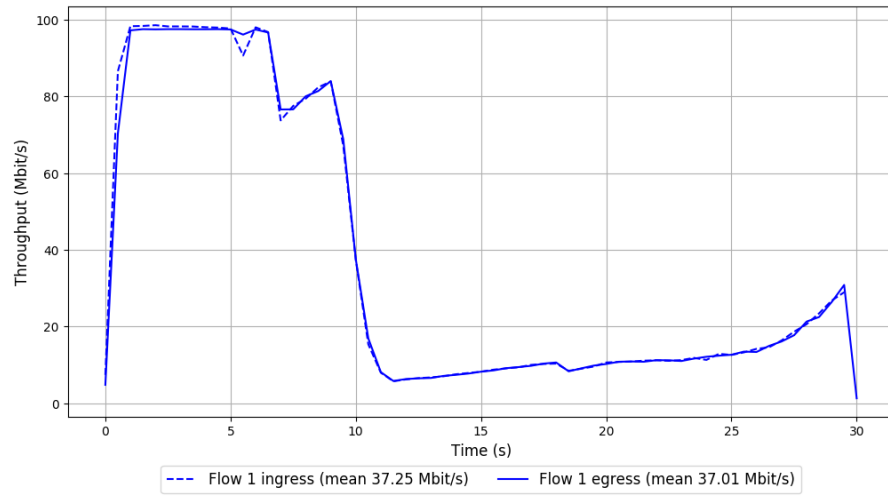
Run 7: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 82.02 Mbit/s) — — — Flow 1 egress (mean 81.83 Mbit/s)

Flow 1 (95th percentile 83.55 ms)

```
Run 8: Statistics of TCP Cubic

Start at: Mon, 24 Jul 2017 22:39:50 +0000
End at: Mon, 24 Jul 2017 22:40:20 +0000
Local clock offset: 0.349 ms
Remote clock offset: -2.121 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:28:48 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.01 Mbit/s
95th percentile per-packet one-way delay: 83.403 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 37.01 Mbit/s
95th percentile per-packet one-way delay: 83.403 ms
Loss rate: 0.65%
```

Run 8: Report of TCP Cubic — Data Link

```
Run 9: Statistics of TCP Cubic

Start at: Mon, 24 Jul 2017 23:03:28 +0000
End at: Mon, 24 Jul 2017 23:03:58 +0000
Local clock offset: 0.355 ms
Remote clock offset: -4.648 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:28:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.31 Mbit/s
95th percentile per-packet one-way delay: 80.681 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 92.31 Mbit/s
95th percentile per-packet one-way delay: 80.681 ms
Loss rate: 0.24%
```
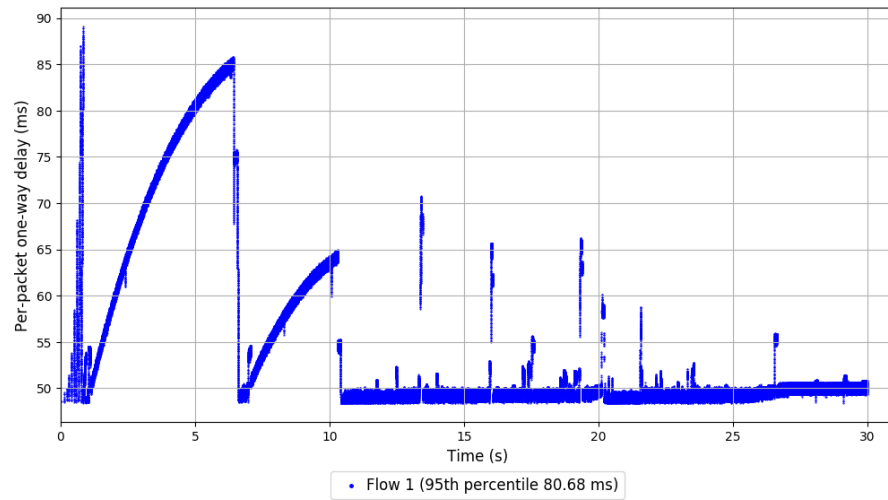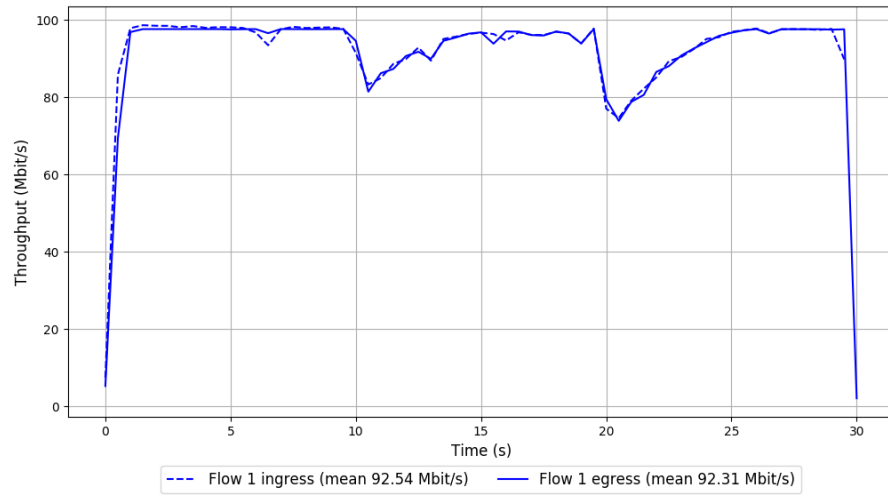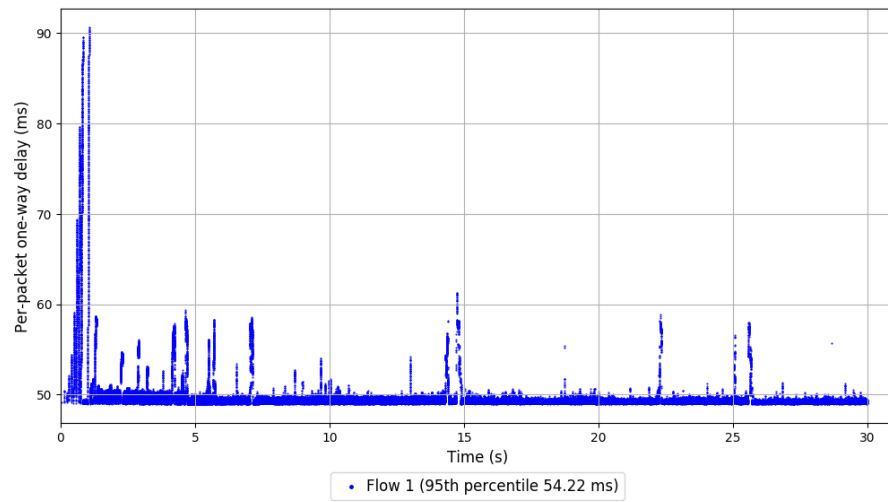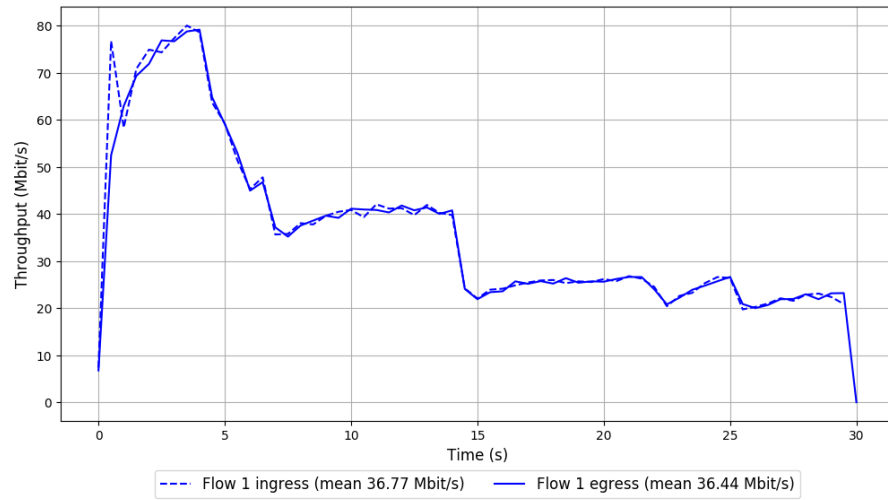
Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 92.54 Mbit/s)   Flow 1 egress (mean 92.31 Mbit/s)

• Flow 1 (95th percentile 80.68 ms)

```
Run 10: Statistics of TCP Cubic

Start at: Mon, 24 Jul 2017 23:24:47 +0000
End at: Mon, 24 Jul 2017 23:25:17 +0000
Local clock offset: 0.21 ms
Remote clock offset: -2.703 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:28:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.44 Mbit/s
95th percentile per-packet one-way delay: 54.224 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 36.44 Mbit/s
95th percentile per-packet one-way delay: 54.224 ms
Loss rate: 0.90%
```
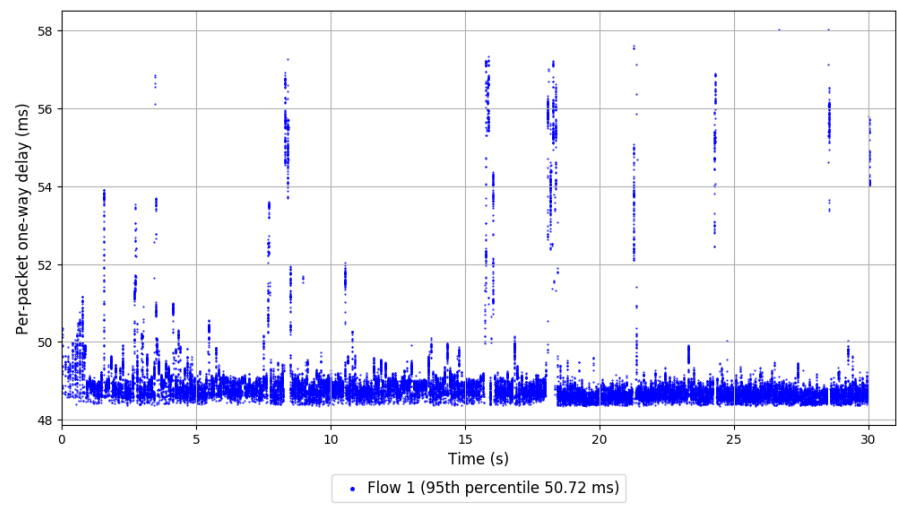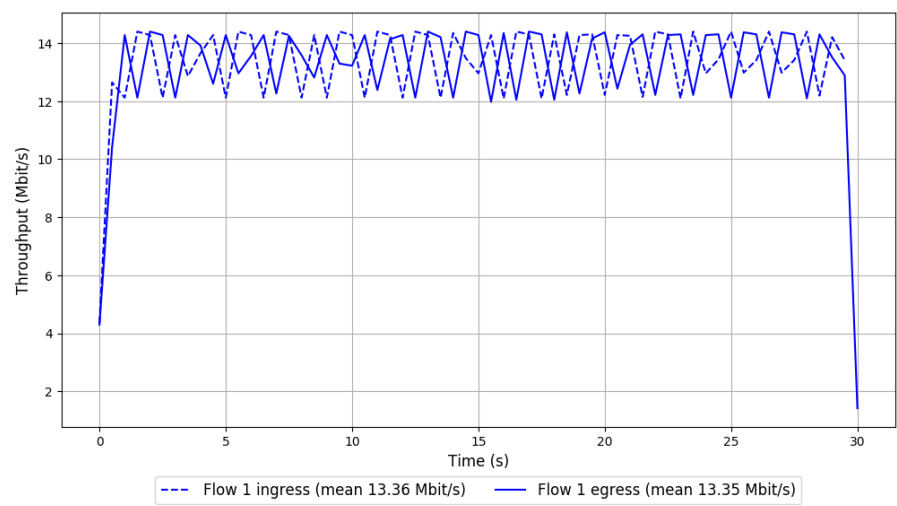
Run 10: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 36.77 Mbit/s)   Flow 1 egress (mean 36.44 Mbit/s)

Flow 1 (95th percentile 54.22 ms)

```
Run 1: Statistics of KohoCC

Start at: Mon, 24 Jul 2017 20:14:58 +0000
End at: Mon, 24 Jul 2017 20:15:28 +0000
Local clock offset: -0.087 ms
Remote clock offset: -3.024 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:28:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.35 Mbit/s
95th percentile per-packet one-way delay: 50.718 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 13.35 Mbit/s
95th percentile per-packet one-way delay: 50.718 ms
Loss rate: 0.05%
```
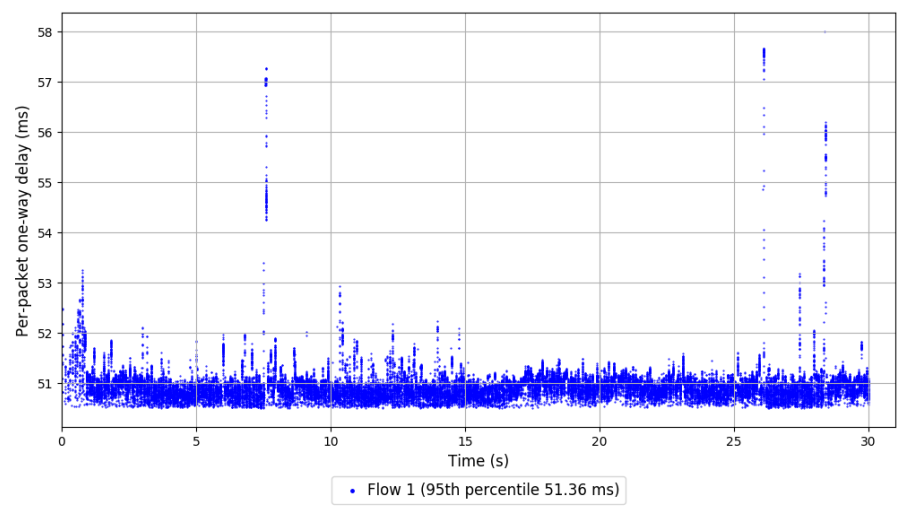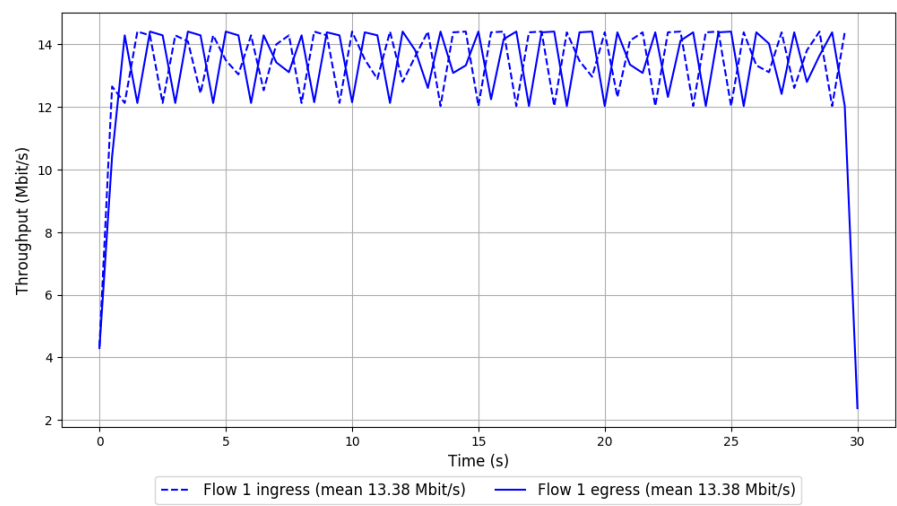
Run 1: Report of KohoCC — Data Link

Flow 1 ingress (mean 13.36 Mbit/s) --- Flow 1 egress (mean 13.35 Mbit/s)

• Flow 1 (95th percentile 50.72 ms)

```
Run 2: Statistics of KohoCC

Start at: Mon, 24 Jul 2017 20:35:49 +0000
End at: Mon, 24 Jul 2017 20:36:19 +0000
Local clock offset: 0.101 ms
Remote clock offset: -1.62 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:28:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.38 Mbit/s
95th percentile per-packet one-way delay: 51.361 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.38 Mbit/s
95th percentile per-packet one-way delay: 51.361 ms
Loss rate: 0.00%
```
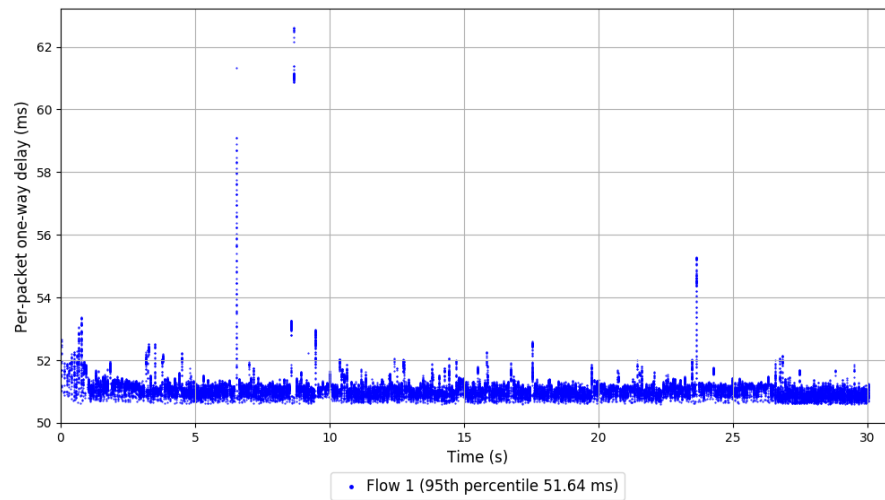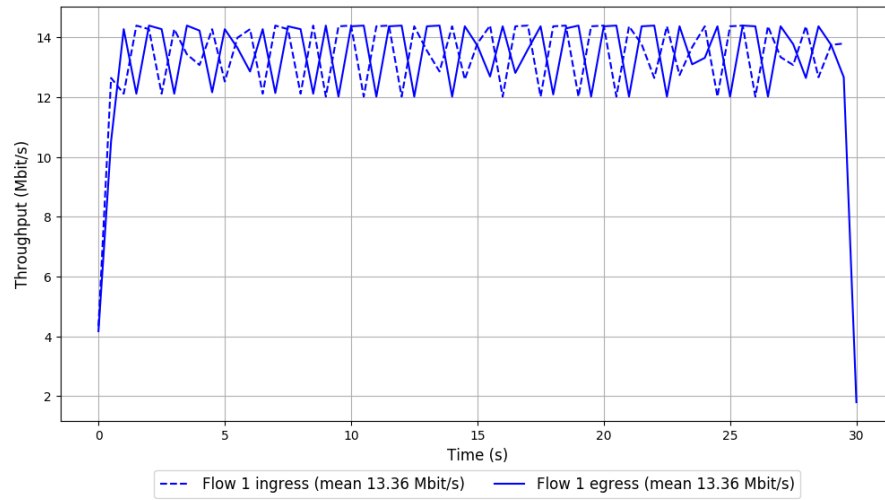
Run 2: Report of KohoCC — Data Link

```
Run 3: Statistics of KohoCC

Start at: Mon, 24 Jul 2017 20:56:19 +0000
End at: Mon, 24 Jul 2017 20:56:50 +0000
Local clock offset: 0.27 ms
Remote clock offset: -1.318 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:01 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.36 Mbit/s
95th percentile per-packet one-way delay: 51.640 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.36 Mbit/s
95th percentile per-packet one-way delay: 51.640 ms
Loss rate: 0.00%
```
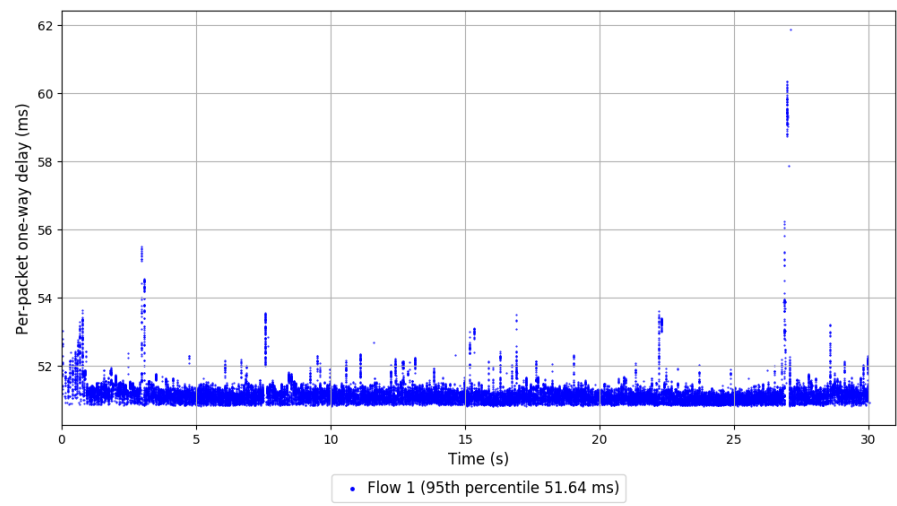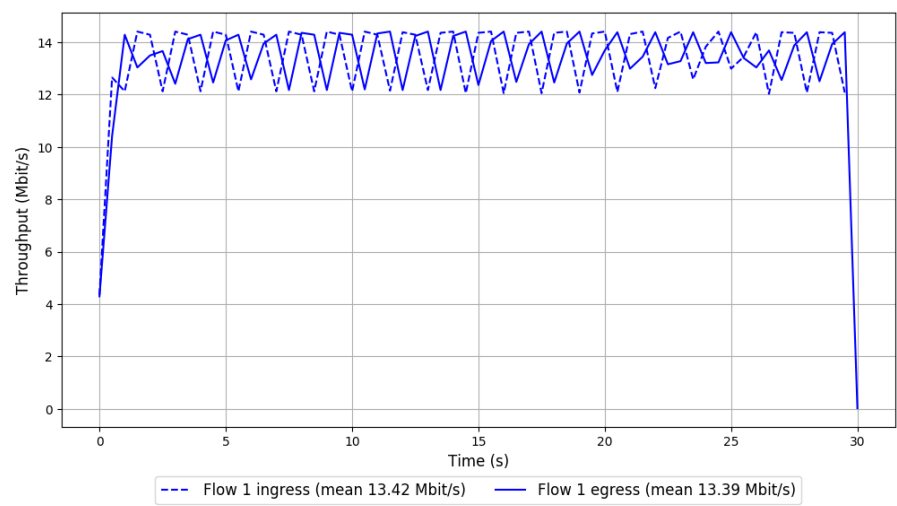
Run 3: Report of KohoCC — Data Link

Run 4: Statistics of KohoCC

Start at: Mon, 24 Jul 2017 21:18:12 +0000
End at: Mon, 24 Jul 2017 21:18:42 +0000
Local clock offset: 0.352 ms
Remote clock offset: -1.221 ms

Run 4: Report of KohoCC — Data Link

Figure is missing

Figure is missing

```
Run 5: Statistics of KohoCC

Start at: Mon, 24 Jul 2017 21:39:23 +0000
End at: Mon, 24 Jul 2017 21:39:53 +0000
Local clock offset: 0.333 ms
Remote clock offset: -0.862 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:02 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 51.641 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 51.641 ms
Loss rate: 0.16%
```
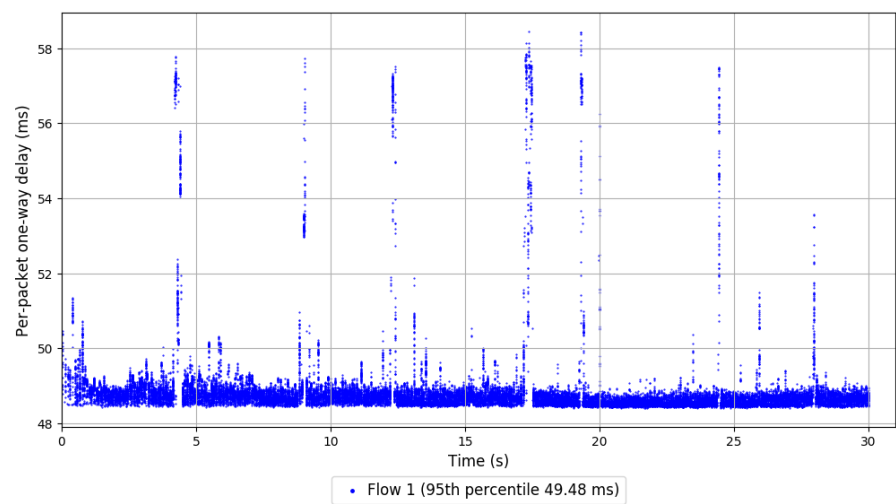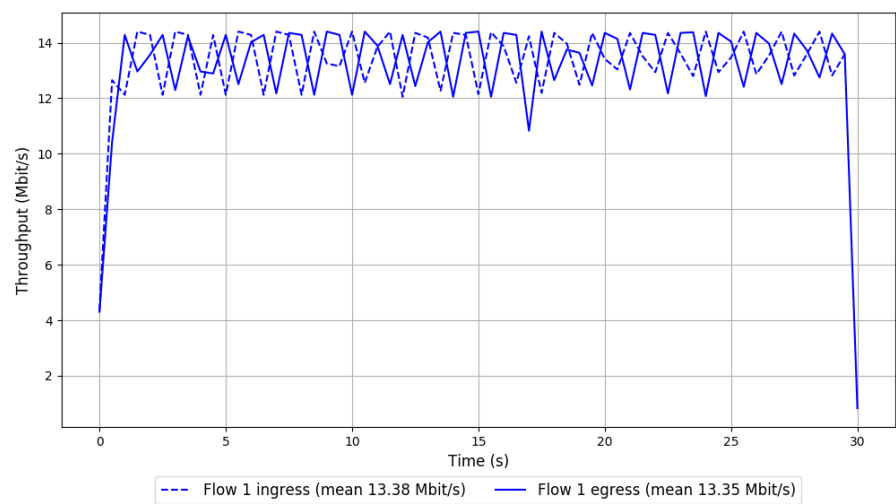
Run 5: Report of KohoCC — Data Link

Flow 1 ingress (mean 13.42 Mbit/s) ——— Flow 1 egress (mean 13.39 Mbit/s)

• Flow 1 (95th percentile 51.64 ms)

```
Run 6: Statistics of KohoCC

Start at: Mon, 24 Jul 2017 21:59:57 +0000
End at: Mon, 24 Jul 2017 22:00:27 +0000
Local clock offset: 0.341 ms
Remote clock offset: -3.743 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:03 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.35 Mbit/s
95th percentile per-packet one-way delay: 49.484 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 13.35 Mbit/s
95th percentile per-packet one-way delay: 49.484 ms
Loss rate: 0.28%
```
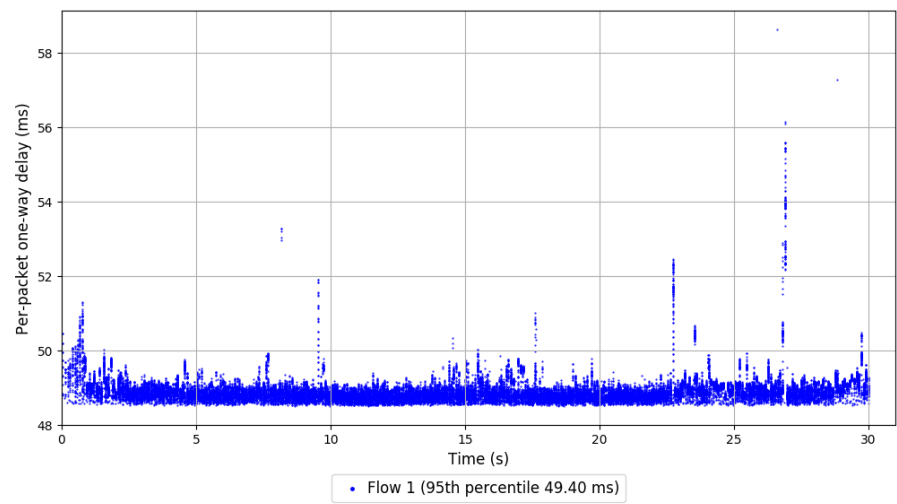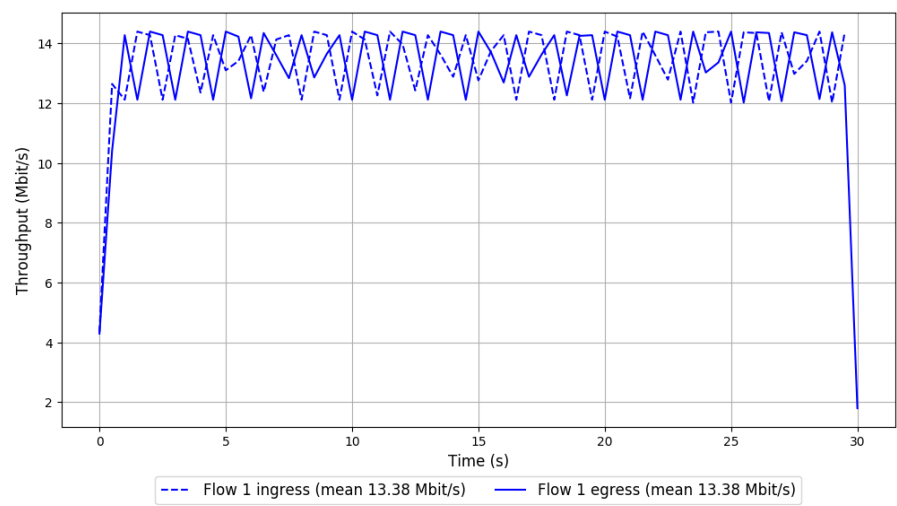
Run 6: Report of KohoCC — Data Link

Flow 1 ingress (mean 13.38 Mbit/s)   Flow 1 egress (mean 13.35 Mbit/s)

Flow 1 (95th percentile 49.48 ms)

```
Run 7: Statistics of KohoCC

Start at: Mon, 24 Jul 2017 22:20:46 +0000
End at: Mon, 24 Jul 2017 22:21:16 +0000
Local clock offset: 0.398 ms
Remote clock offset: -4.012 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:05 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.38 Mbit/s
95th percentile per-packet one-way delay: 49.397 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.38 Mbit/s
95th percentile per-packet one-way delay: 49.397 ms
Loss rate: 0.00%
```
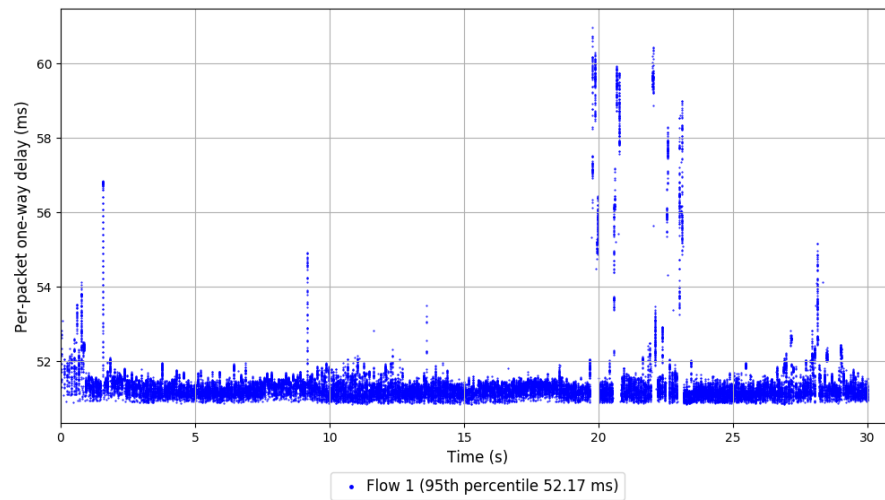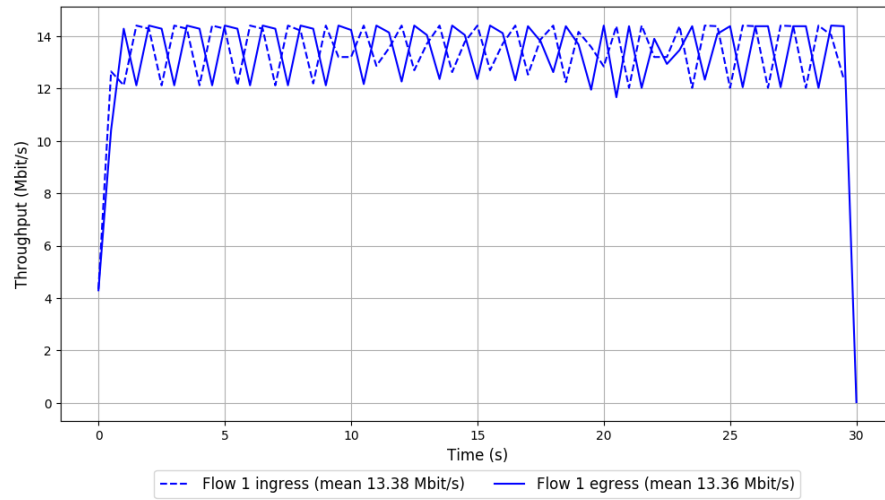
Run 7: Report of KohoCC — Data Link

Flow 1 ingress (mean 13.38 Mbit/s) --- Flow 1 egress (mean 13.38 Mbit/s)

Flow 1 (95th percentile 49.40 ms)

```
Run 8: Statistics of KohoCC

Start at: Mon, 24 Jul 2017 22:42:50 +0000
End at: Mon, 24 Jul 2017 22:43:20 +0000
Local clock offset: 0.351 ms
Remote clock offset: -1.683 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:06 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.36 Mbit/s
95th percentile per-packet one-way delay: 52.167 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 13.36 Mbit/s
95th percentile per-packet one-way delay: 52.167 ms
Loss rate: 0.20%
```
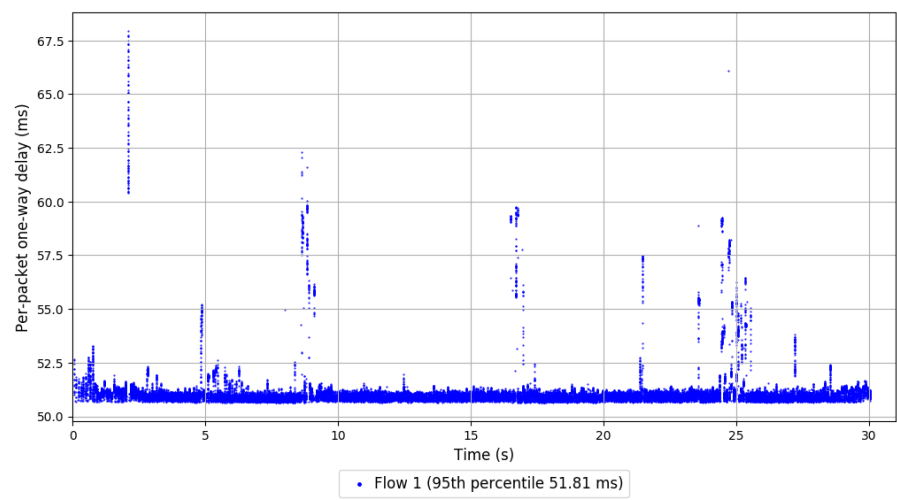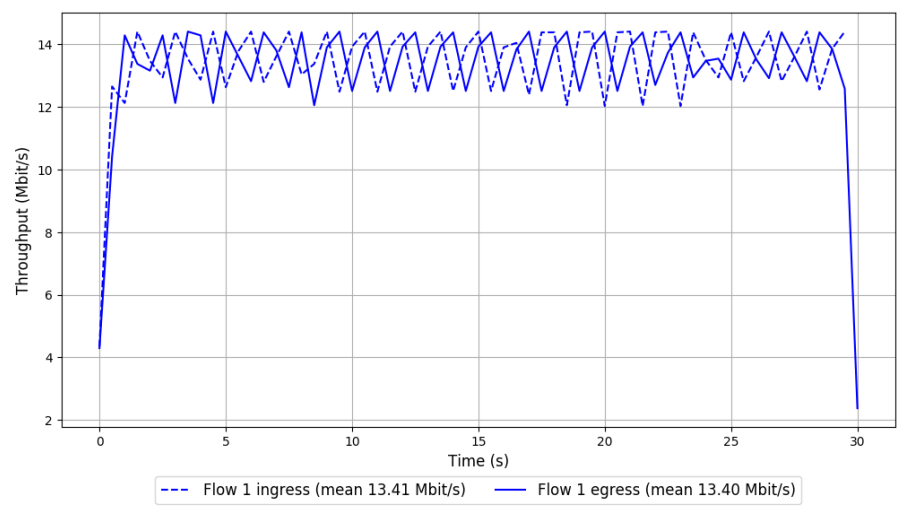
Run 8: Report of KohoCC — Data Link

Flow 1 ingress (mean 13.38 Mbit/s)   Flow 1 egress (mean 13.36 Mbit/s)

Flow 1 (95th percentile 52.17 ms)

```
Run 9: Statistics of KohoCC

Start at: Mon, 24 Jul 2017 23:06:22 +0000
End at: Mon, 24 Jul 2017 23:06:52 +0000
Local clock offset: 0.426 ms
Remote clock offset: -2.137 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:07 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 51.808 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 51.808 ms
Loss rate: 0.07%
```
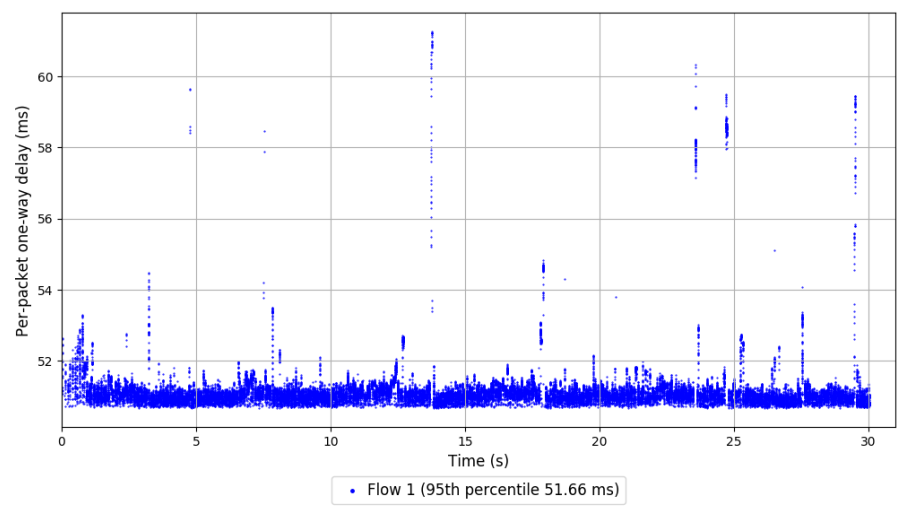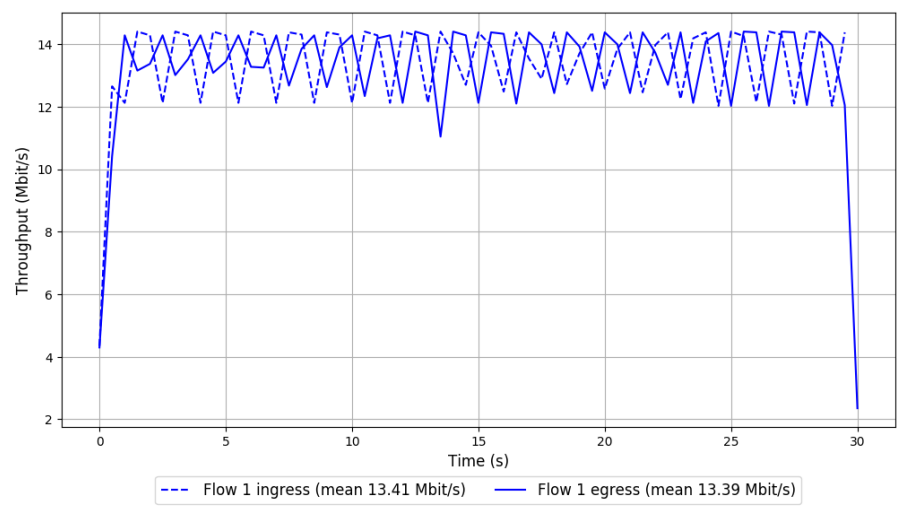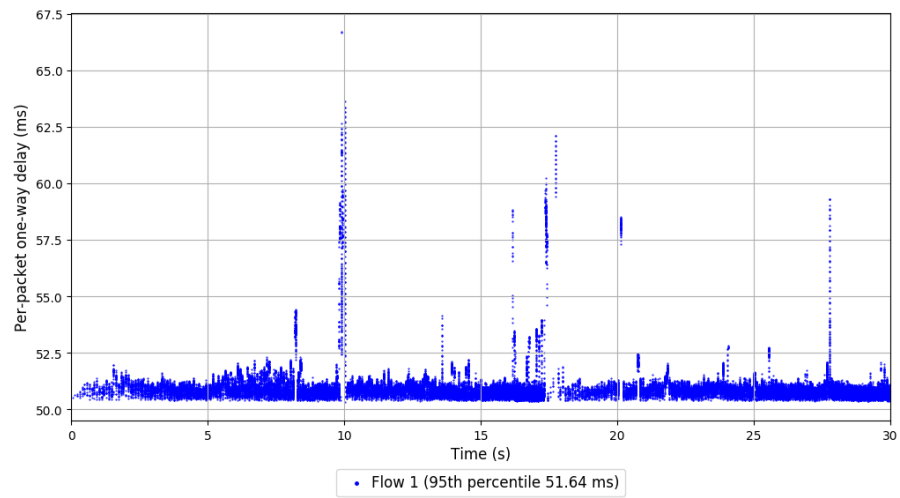
Run 9: Report of KohoCC — Data Link

Flow 1 ingress (mean 13.41 Mbit/s) ---- Flow 1 egress (mean 13.40 Mbit/s)

Flow 1 (95th percentile 51.81 ms)

```
Run 10: Statistics of KohoCC

Start at: Mon, 24 Jul 2017 23:27:28 +0000
End at: Mon, 24 Jul 2017 23:27:58 +0000
Local clock offset: 0.252 ms
Remote clock offset: -2.401 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:09 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 51.656 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 51.656 ms
Loss rate: 0.21%
```
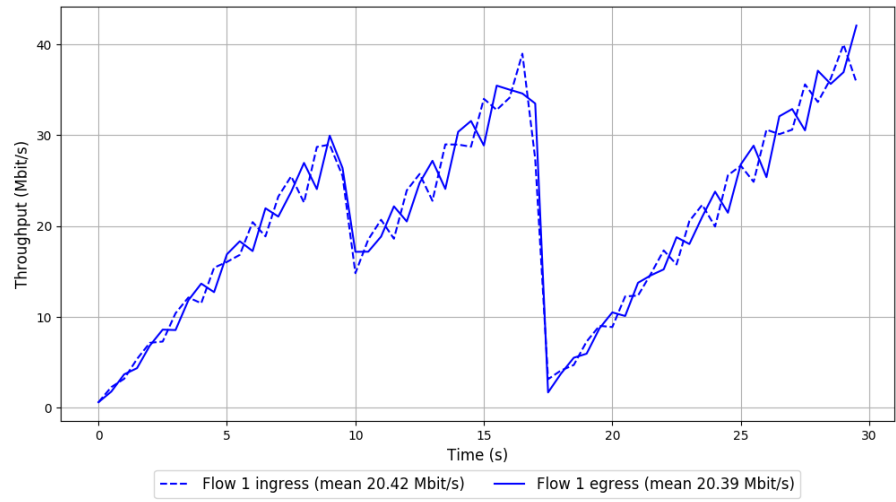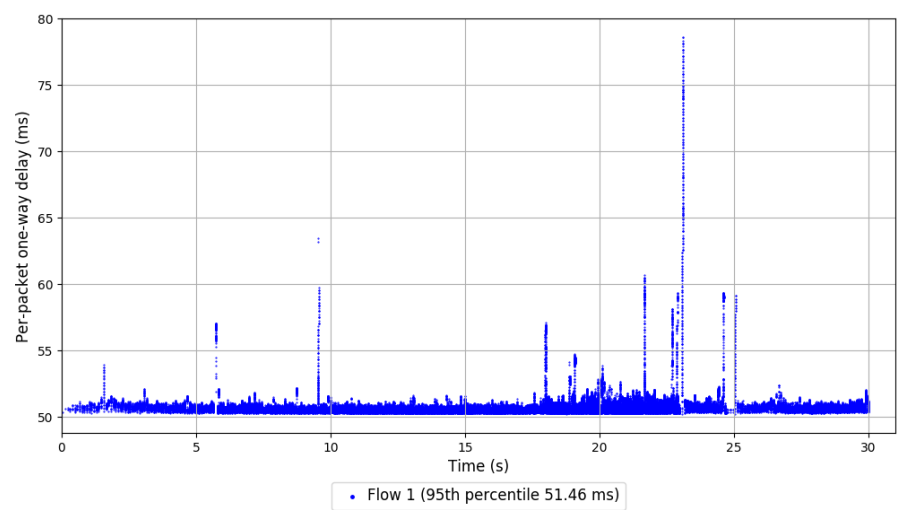
Run 10: Report of KohoCC — Data Link

Flow 1 ingress (mean 13.41 Mbit/s)   Flow 1 egress (mean 13.39 Mbit/s)

Flow 1 (95th percentile 51.66 ms)

```
Run 1: Statistics of LEDBAT

Start at: Mon, 24 Jul 2017 20:06:55 +0000
End at: Mon, 24 Jul 2017 20:07:25 +0000
Local clock offset: -0.029 ms
Remote clock offset: -0.829 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.39 Mbit/s
95th percentile per-packet one-way delay: 51.643 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 20.39 Mbit/s
95th percentile per-packet one-way delay: 51.643 ms
Loss rate: 0.12%
```
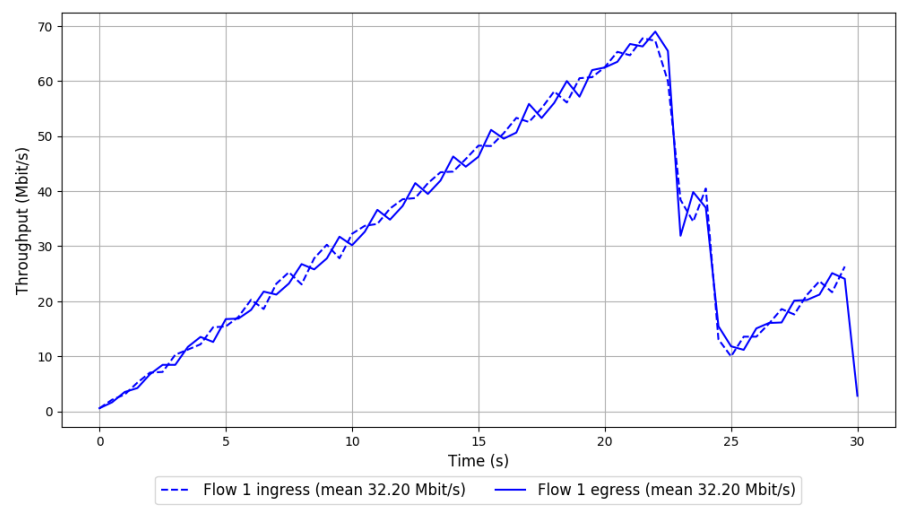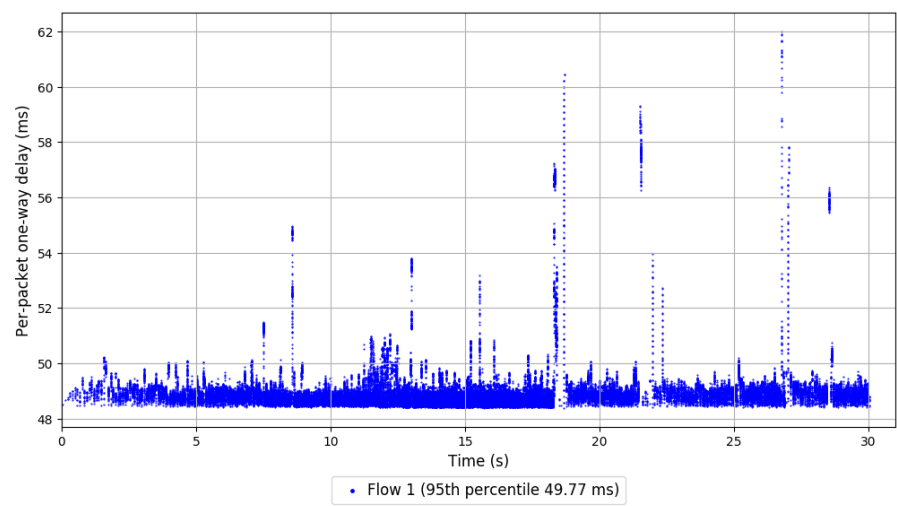
Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: Mon, 24 Jul 2017 20:27:41 +0000
End at: Mon, 24 Jul 2017 20:28:11 +0000
Local clock offset: -0.017 ms
Remote clock offset: -1.552 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:14 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.20 Mbit/s
95th percentile per-packet one-way delay: 51.463 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 32.20 Mbit/s
95th percentile per-packet one-way delay: 51.463 ms
Loss rate: 0.02%
```
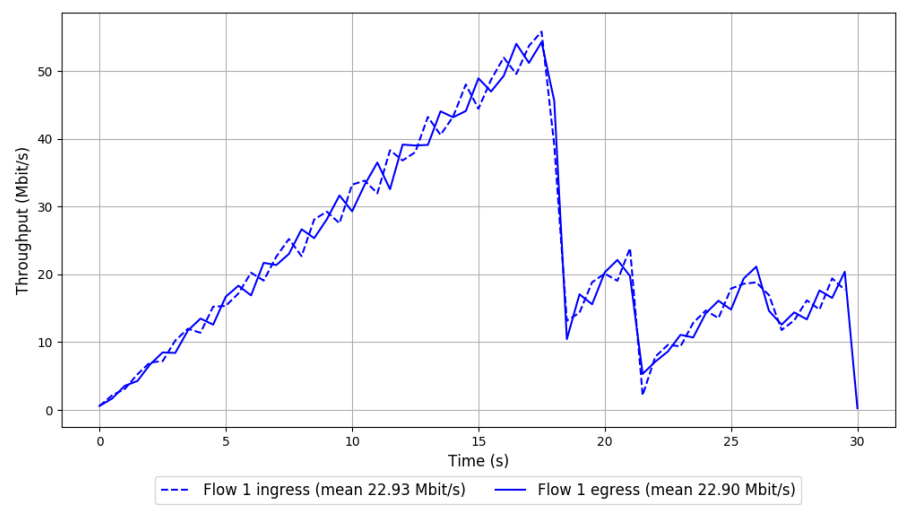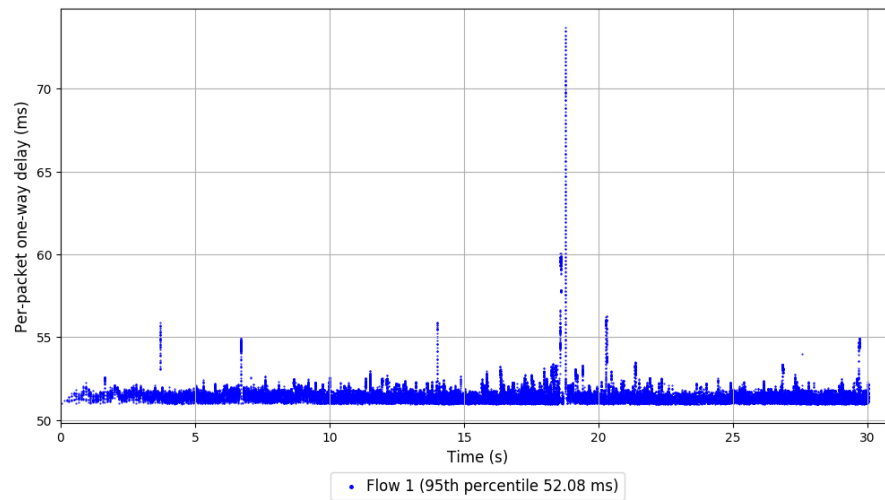
Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: Mon, 24 Jul 2017 20:48:10 +0000
End at: Mon, 24 Jul 2017 20:48:40 +0000
Local clock offset: 0.303 ms
Remote clock offset: -3.606 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:15 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.90 Mbit/s
95th percentile per-packet one-way delay: 49.771 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 22.90 Mbit/s
95th percentile per-packet one-way delay: 49.771 ms
Loss rate: 0.11%
```
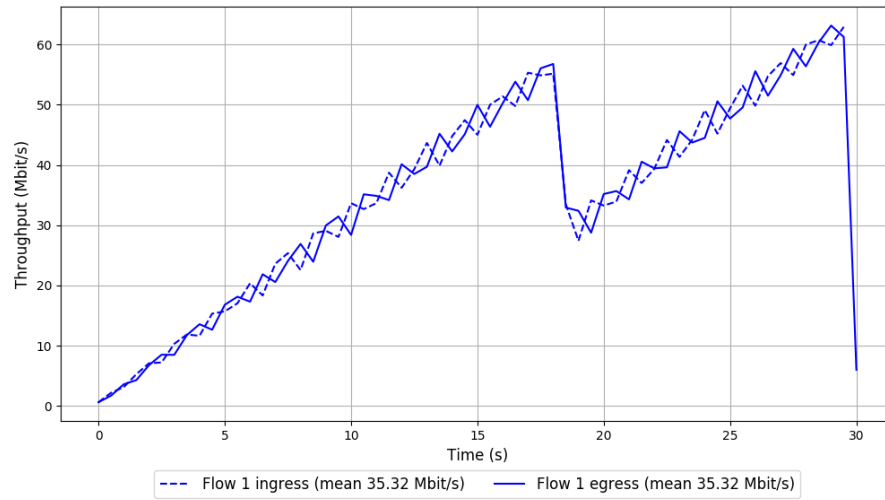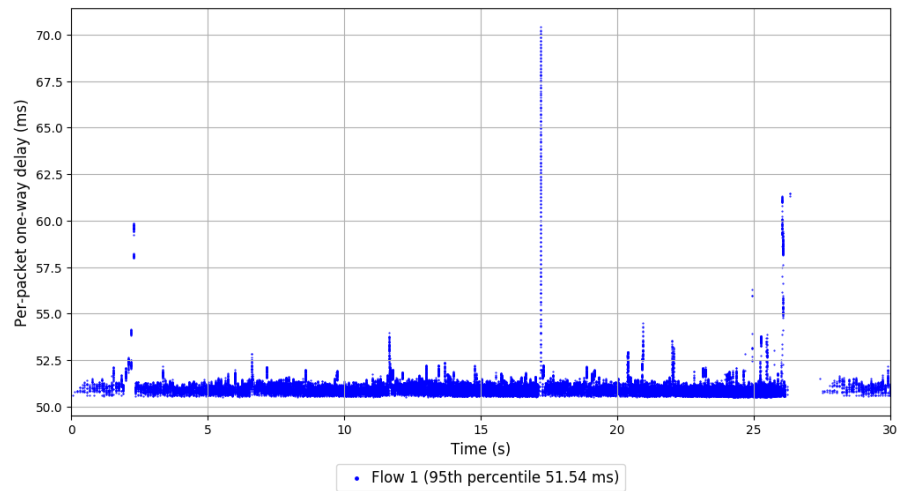
Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 22.93 Mbit/s) --- Flow 1 egress (mean 22.90 Mbit/s)

Flow 1 (95th percentile 49.77 ms)

```
Run 4: Statistics of LEDBAT

Start at: Mon, 24 Jul 2017 21:09:26 +0000
End at: Mon, 24 Jul 2017 21:09:56 +0000
Local clock offset: 0.379 ms
Remote clock offset: -0.706 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:19 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.32 Mbit/s
95th percentile per-packet one-way delay: 52.076 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.32 Mbit/s
95th percentile per-packet one-way delay: 52.076 ms
Loss rate: 0.00%
```
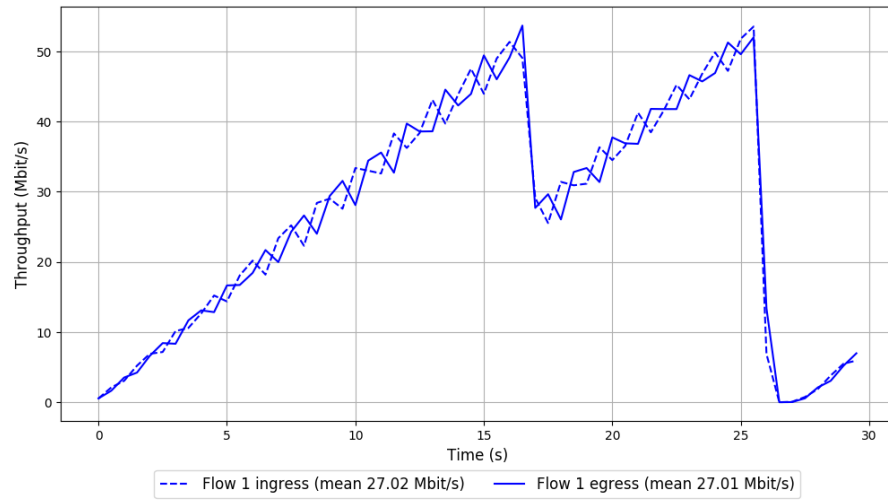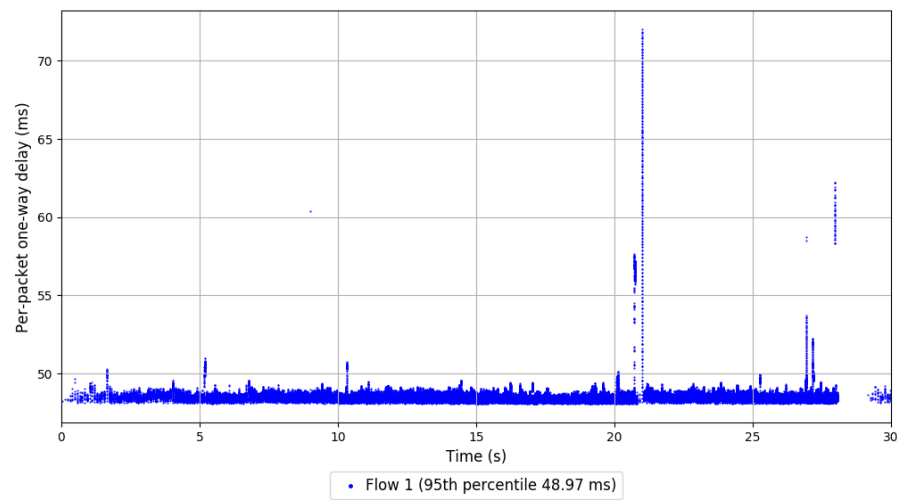
Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: Mon, 24 Jul 2017 21:31:15 +0000
End at: Mon, 24 Jul 2017 21:31:45 +0000
Local clock offset: 0.29 ms
Remote clock offset: -1.354 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:19 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.01 Mbit/s
95th percentile per-packet one-way delay: 51.543 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 27.01 Mbit/s
95th percentile per-packet one-way delay: 51.543 ms
Loss rate: 0.04%
```
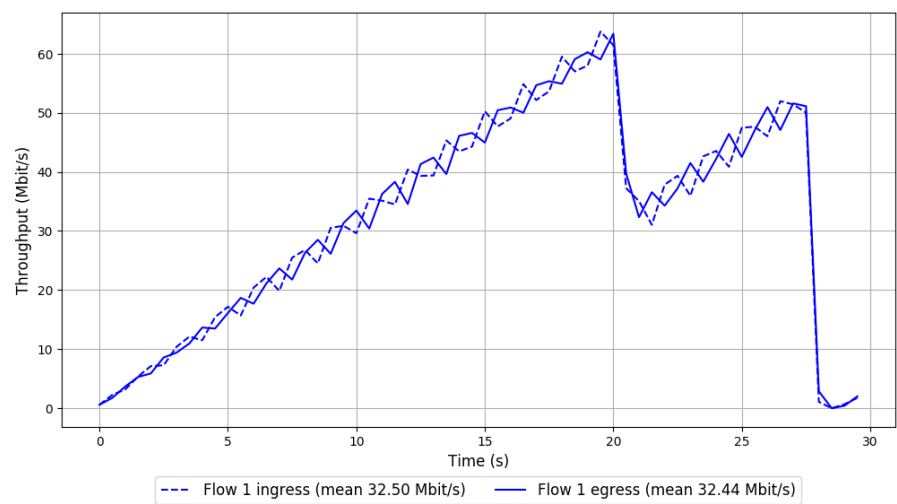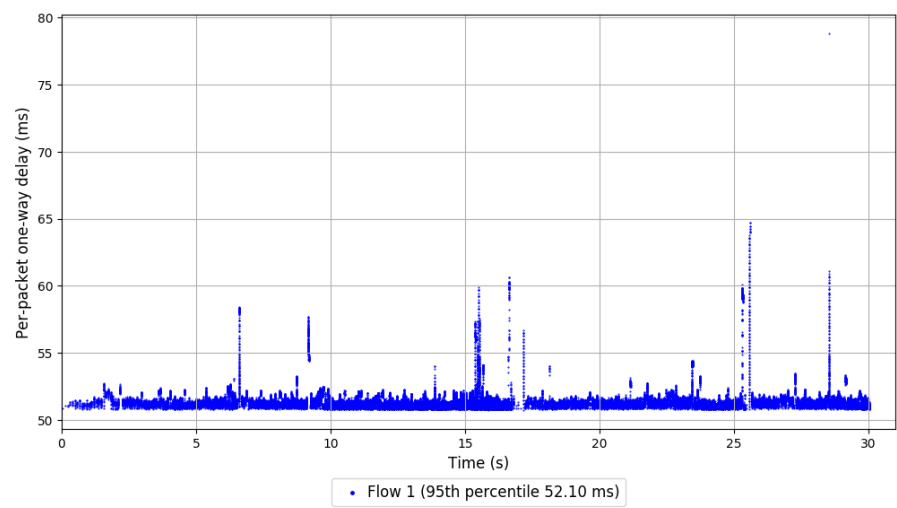
Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 27.02 Mbit/s) — — —   Flow 1 egress (mean 27.01 Mbit/s) ——————

• Flow 1 (95th percentile 51.54 ms)

113

```
Run 6: Statistics of LEDBAT

Start at: Mon, 24 Jul 2017 21:52:01 +0000
End at: Mon, 24 Jul 2017 21:52:31 +0000
Local clock offset: 0.429 ms
Remote clock offset: -3.622 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:24 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.44 Mbit/s
95th percentile per-packet one-way delay: 48.967 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 32.44 Mbit/s
95th percentile per-packet one-way delay: 48.967 ms
Loss rate: 0.19%
```
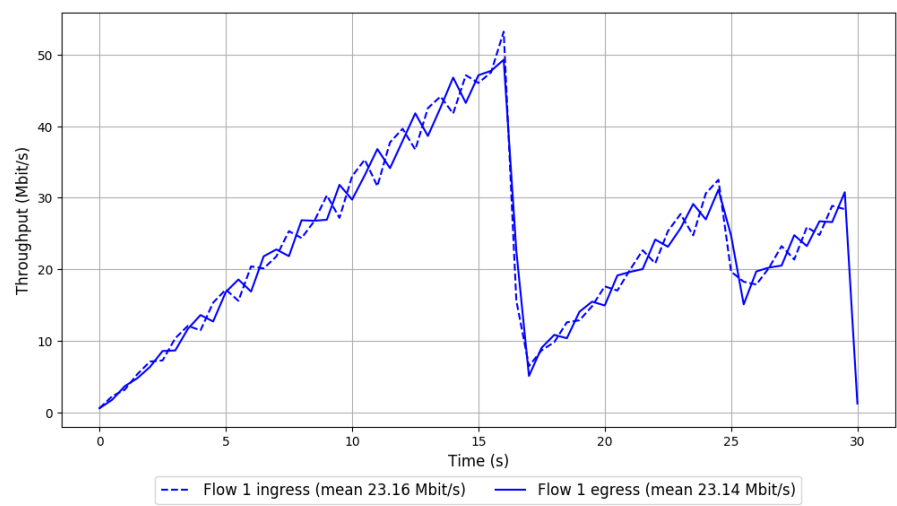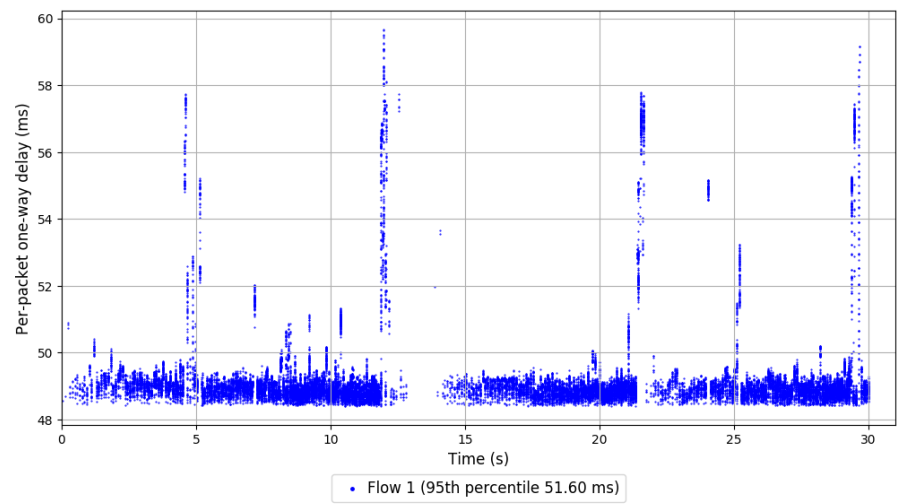
Run 6: Report of LEDBAT — Data Link

```
Run 7: Statistics of LEDBAT

Start at: Mon, 24 Jul 2017 22:12:16 +0000
End at: Mon, 24 Jul 2017 22:12:46 +0000
Local clock offset: 0.399 ms
Remote clock offset: -1.292 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:24 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.14 Mbit/s
95th percentile per-packet one-way delay: 52.101 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 23.14 Mbit/s
95th percentile per-packet one-way delay: 52.101 ms
Loss rate: 0.10%
```

Run 7: Report of LEDBAT — Data Link

```
Run 8: Statistics of LEDBAT

Start at: Mon, 24 Jul 2017 22:34:08 +0000
End at: Mon, 24 Jul 2017 22:34:38 +0000
Local clock offset: 0.477 ms
Remote clock offset: -4.163 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:26 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 51.601 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 51.601 ms
Loss rate: 0.38%
```
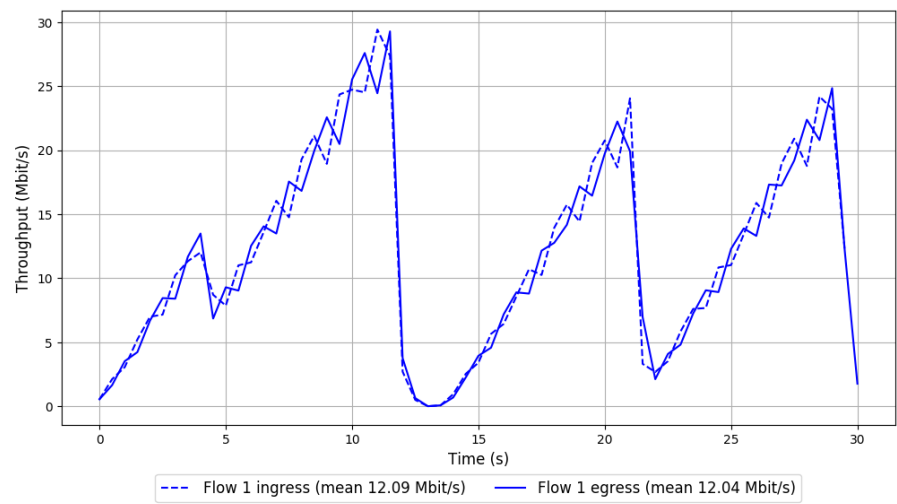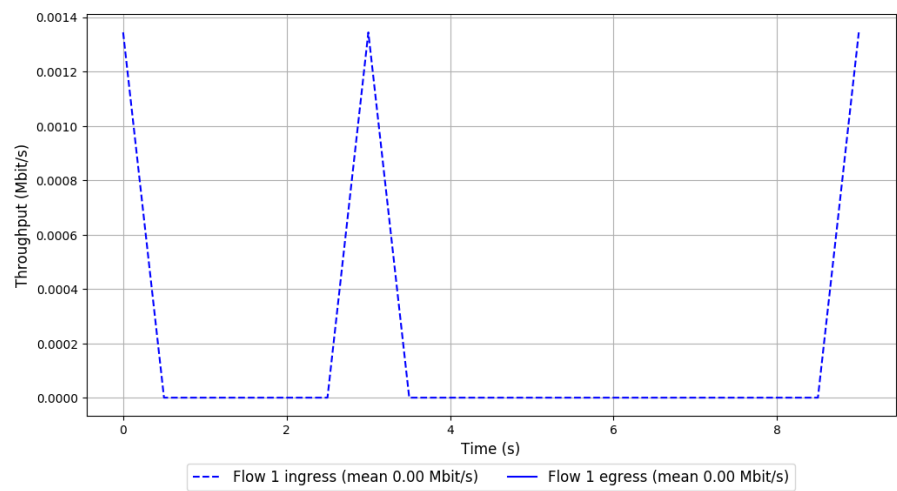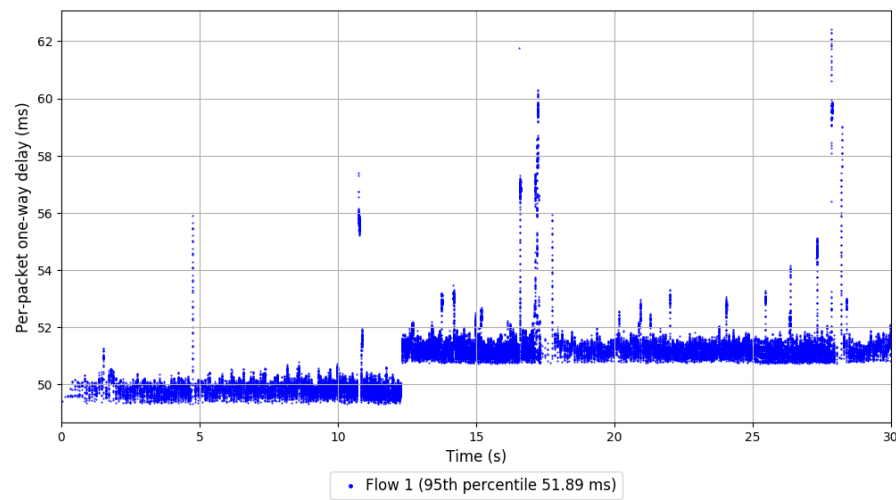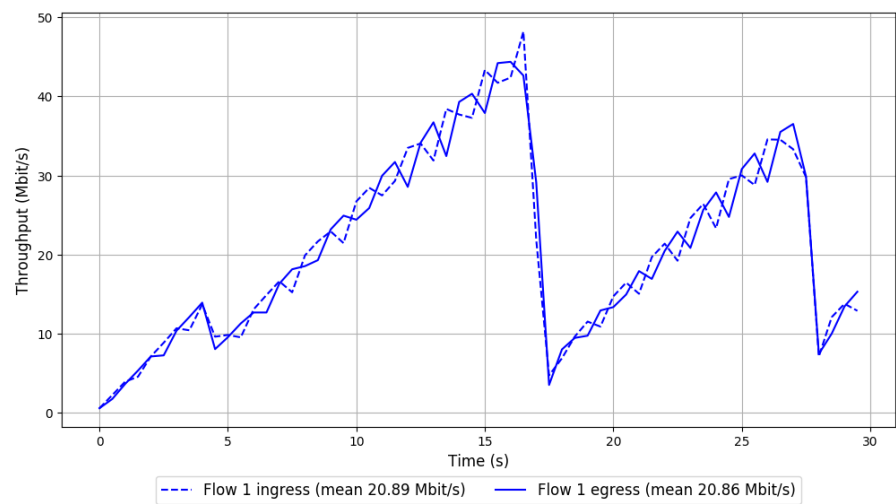
Run 8: Report of LEDBAT — Data Link

```
Run 9: Statistics of LEDBAT

Start at: Mon, 24 Jul 2017 22:57:28 +0000
End at: Mon, 24 Jul 2017 22:57:58 +0000
Local clock offset: 0.352 ms
Remote clock offset: -2.025 ms
```

Run 9: Report of LEDBAT — Data Link

Figure is missing

```
Run 10: Statistics of LEDBAT

Start at: Mon, 24 Jul 2017 23:19:10 +0000
End at: Mon, 24 Jul 2017 23:19:40 +0000
Local clock offset: 0.254 ms
Remote clock offset: -2.3 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:28 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.86 Mbit/s
95th percentile per-packet one-way delay: 51.886 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 20.86 Mbit/s
95th percentile per-packet one-way delay: 51.886 ms
Loss rate: 0.12%
```

Run 10: Report of LEDBAT — Data Link

```
Run 1: Statistics of PCC

Start at: Mon, 24 Jul 2017 20:10:48 +0000
End at: Mon, 24 Jul 2017 20:11:18 +0000
Local clock offset: -0.046 ms
Remote clock offset: -0.838 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:38 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.17 Mbit/s
95th percentile per-packet one-way delay: 62.150 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 89.17 Mbit/s
95th percentile per-packet one-way delay: 62.150 ms
Loss rate: 0.95%
```
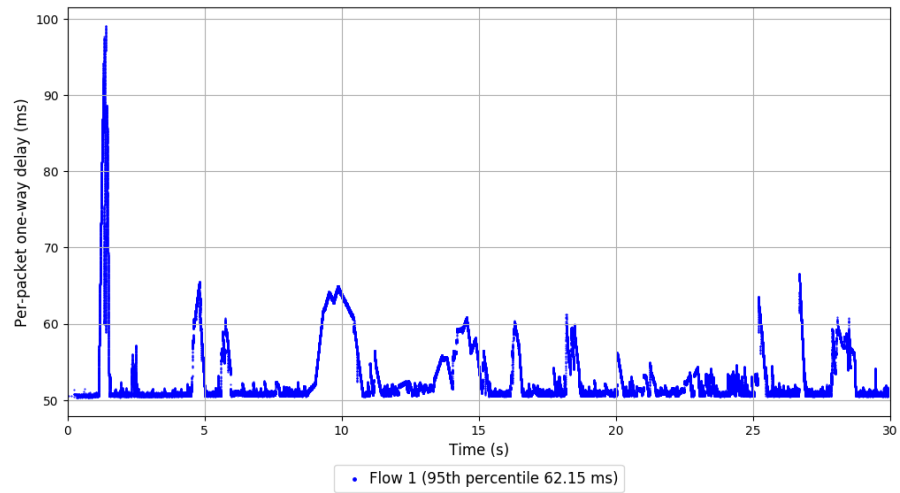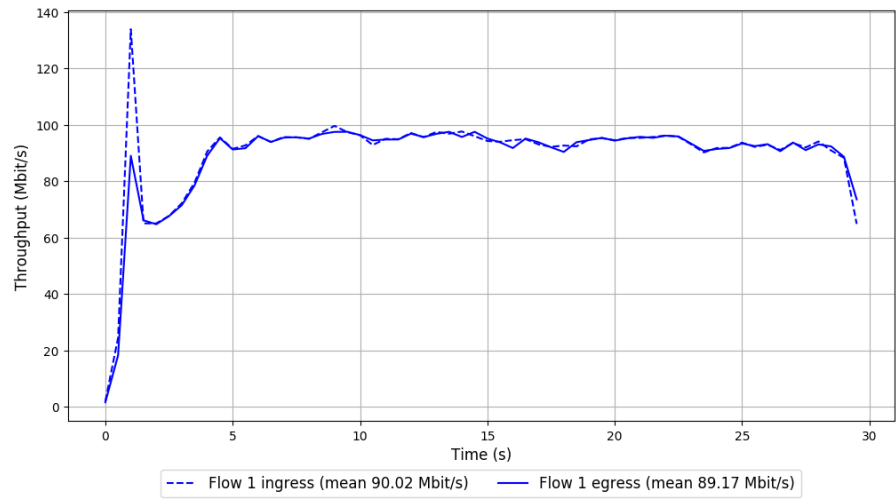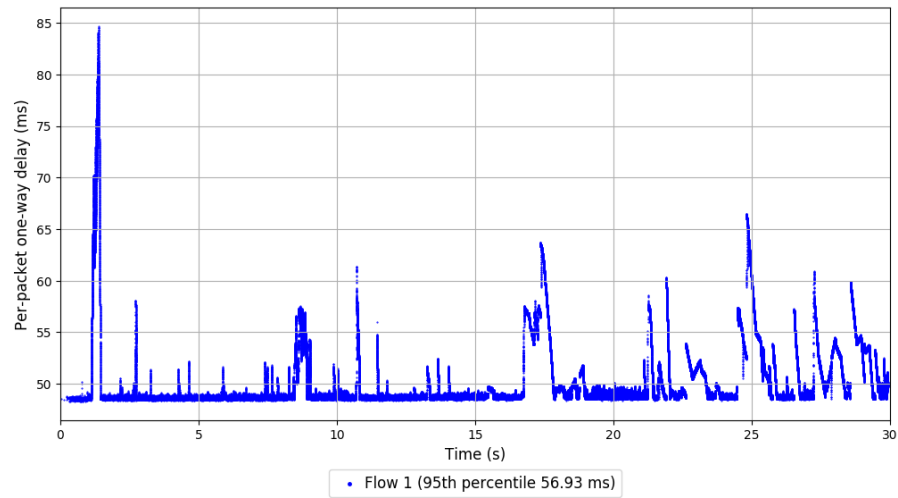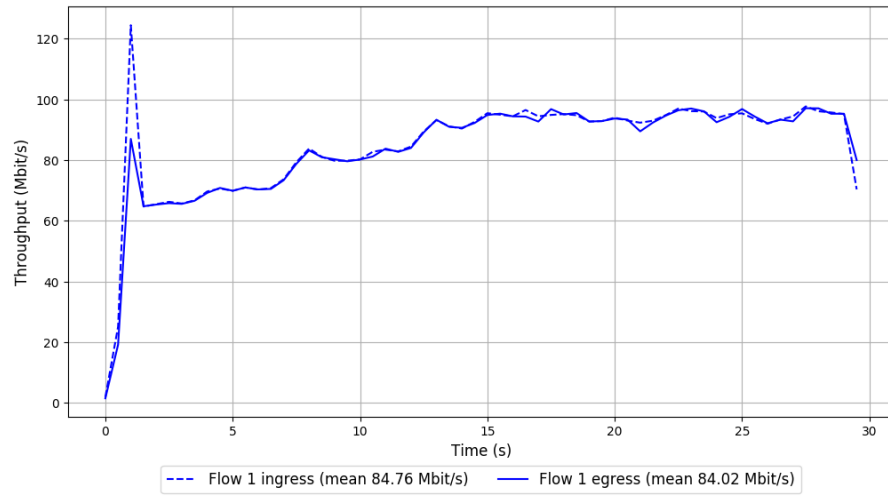
Run 1: Report of PCC — Data Link

Flow 1 ingress (mean 90.02 Mbit/s)　　Flow 1 egress (mean 89.17 Mbit/s)

Flow 1 (95th percentile 62.15 ms)

```
Run 2: Statistics of PCC

Start at: Mon, 24 Jul 2017 20:31:42 +0000
End at: Mon, 24 Jul 2017 20:32:12 +0000
Local clock offset: 0.031 ms
Remote clock offset: -3.623 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:39 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.02 Mbit/s
95th percentile per-packet one-way delay: 56.930 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 84.02 Mbit/s
95th percentile per-packet one-way delay: 56.930 ms
Loss rate: 0.89%
```

Run 2: Report of PCC — Data Link

127

```
Run 3: Statistics of PCC

Start at: Mon, 24 Jul 2017 20:52:12 +0000
End at: Mon, 24 Jul 2017 20:52:42 +0000
Local clock offset: 0.354 ms
Remote clock offset: -0.935 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:47 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.47 Mbit/s
95th percentile per-packet one-way delay: 58.982 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 88.47 Mbit/s
95th percentile per-packet one-way delay: 58.982 ms
Loss rate: 0.78%
```
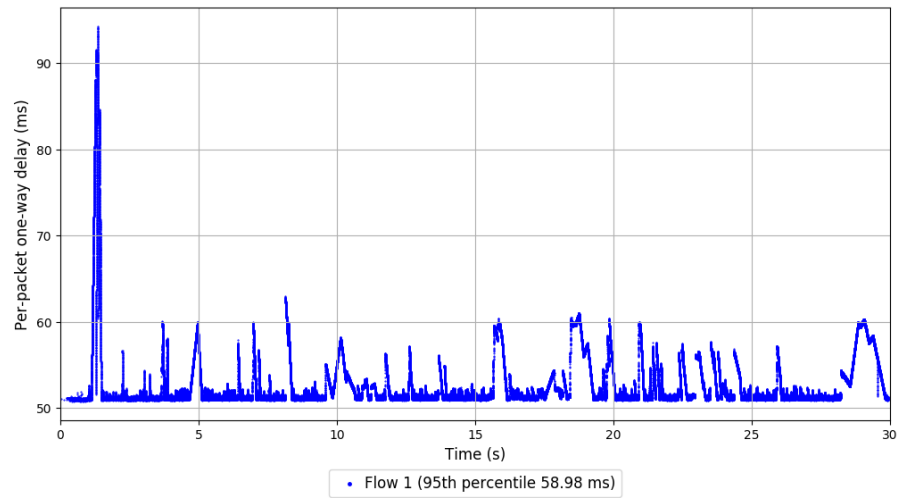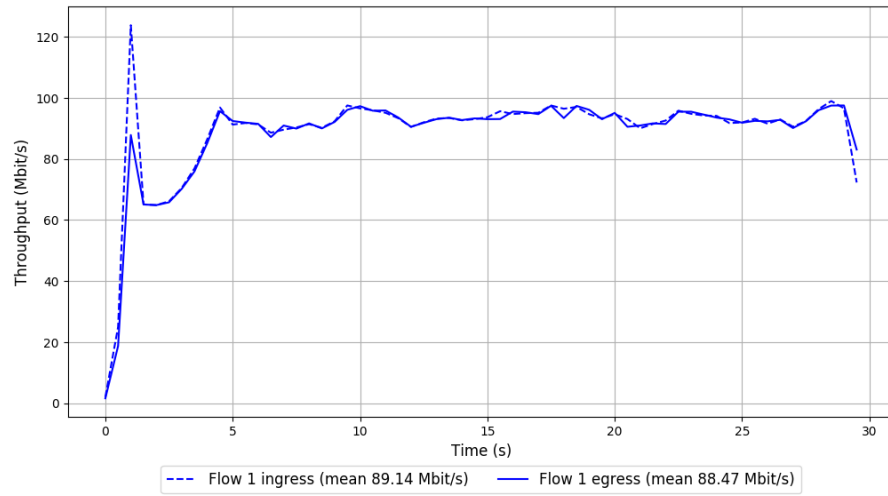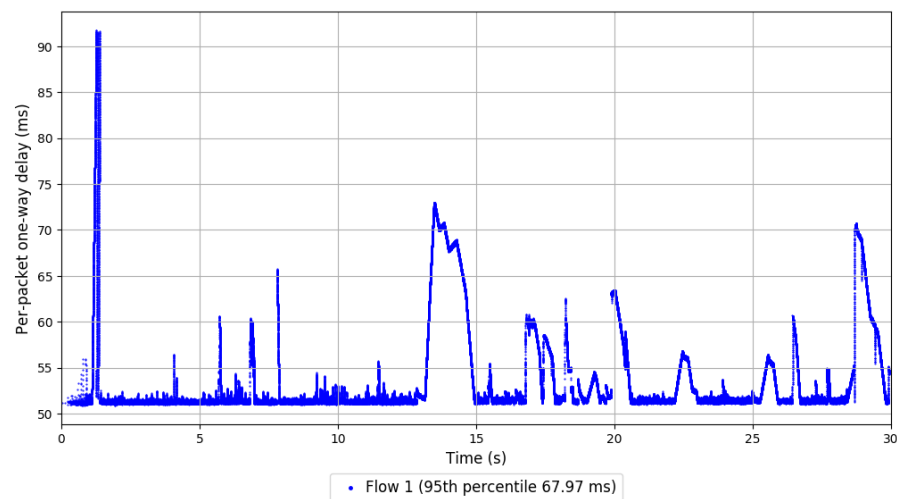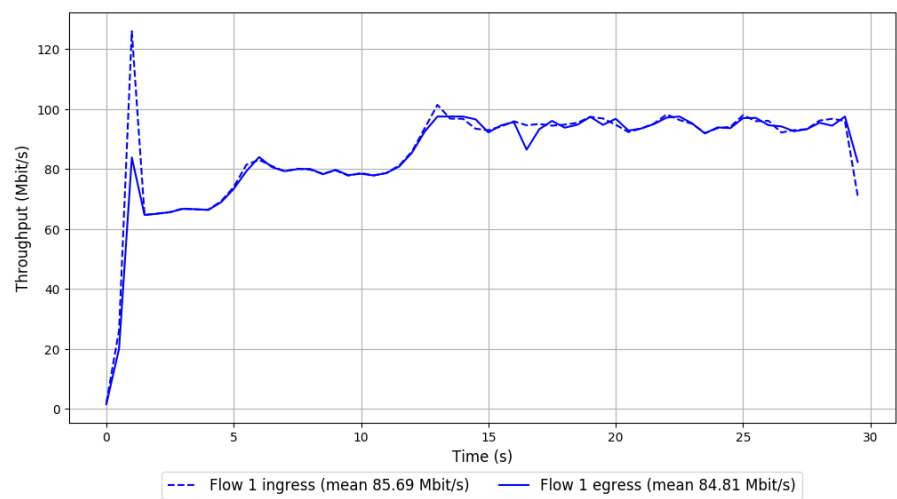
Run 3: Report of PCC — Data Link

Flow 1 ingress (mean 89.14 Mbit/s) — — — Flow 1 egress (mean 88.47 Mbit/s)

• Flow 1 (95th percentile 58.98 ms)

129

```
Run 4: Statistics of PCC

Start at: Mon, 24 Jul 2017 21:13:26 +0000
End at: Mon, 24 Jul 2017 21:13:56 +0000
Local clock offset: 0.264 ms
Remote clock offset: -0.711 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:29:51 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.81 Mbit/s
95th percentile per-packet one-way delay: 67.972 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 84.81 Mbit/s
95th percentile per-packet one-way delay: 67.972 ms
Loss rate: 1.04%
```

Run 4: Report of PCC — Data Link

```
Run 5: Statistics of PCC

Start at: Mon, 24 Jul 2017 21:35:16 +0000
End at: Mon, 24 Jul 2017 21:35:46 +0000
Local clock offset: 0.322 ms
Remote clock offset: -1.293 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:30:01 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.88 Mbit/s
95th percentile per-packet one-way delay: 59.847 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 83.88 Mbit/s
95th percentile per-packet one-way delay: 59.847 ms
Loss rate: 0.80%
```
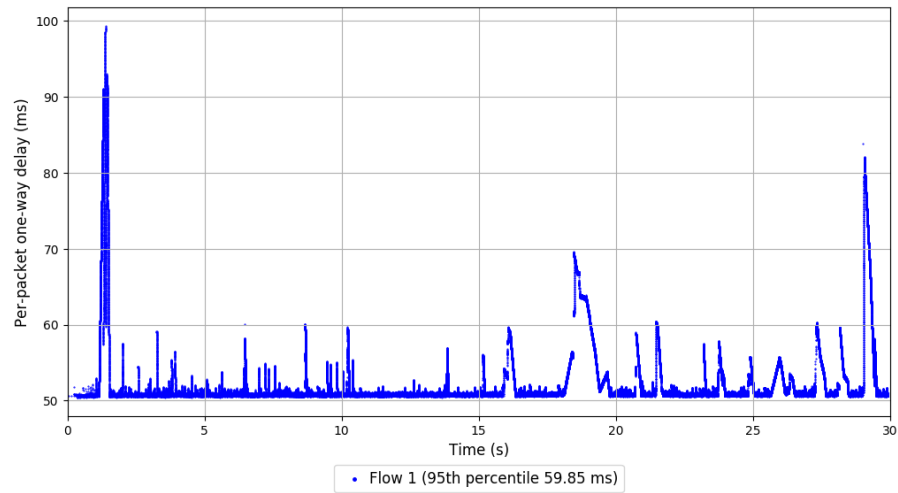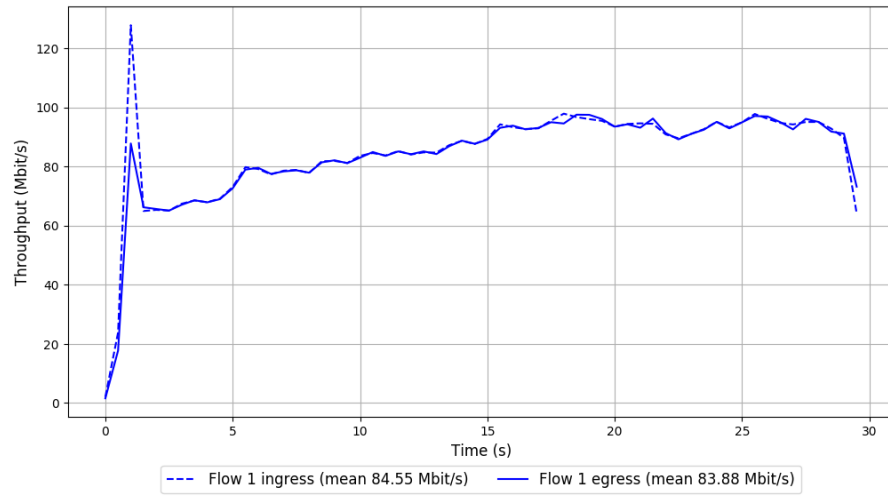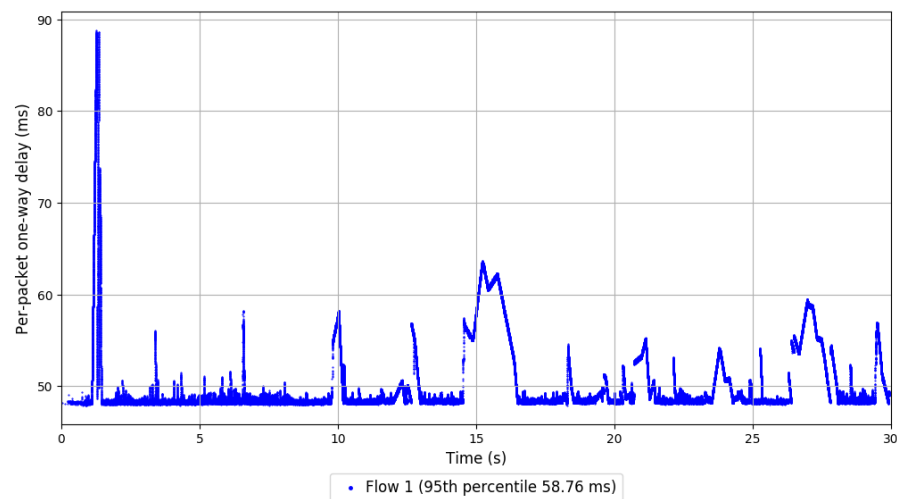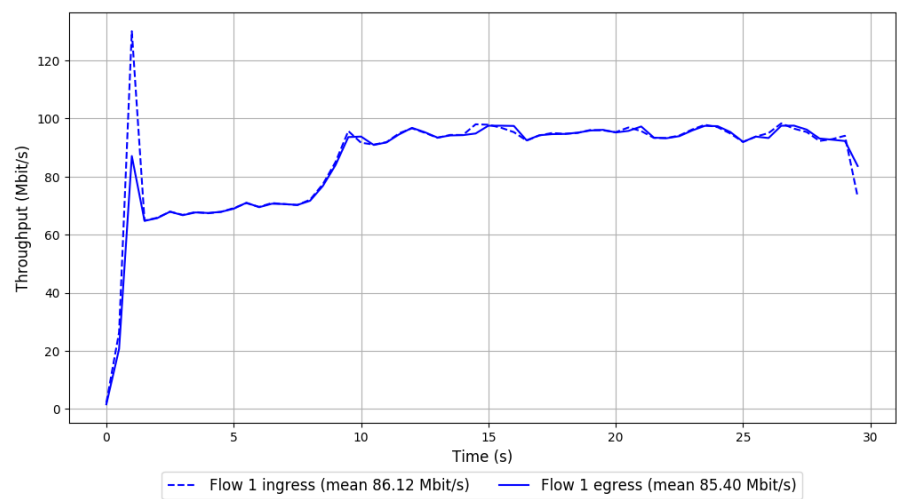
Run 5: Report of PCC — Data Link

Flow 1 ingress (mean 84.55 Mbit/s) — — — Flow 1 egress (mean 83.88 Mbit/s)

Flow 1 (95th percentile 59.85 ms)

```
Run 6: Statistics of PCC

Start at: Mon, 24 Jul 2017 21:55:55 +0000
End at: Mon, 24 Jul 2017 21:56:25 +0000
Local clock offset: 0.46 ms
Remote clock offset: -3.636 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:30:03 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.40 Mbit/s
95th percentile per-packet one-way delay: 58.756 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 85.40 Mbit/s
95th percentile per-packet one-way delay: 58.756 ms
Loss rate: 0.86%
```
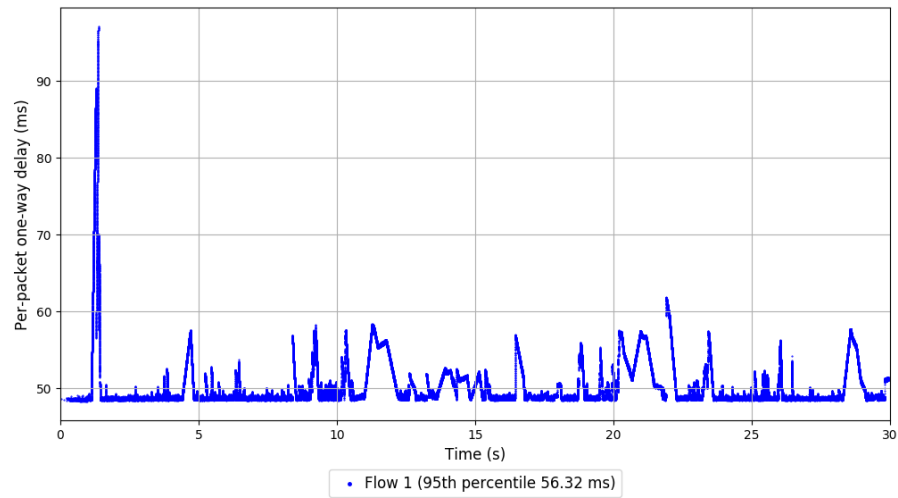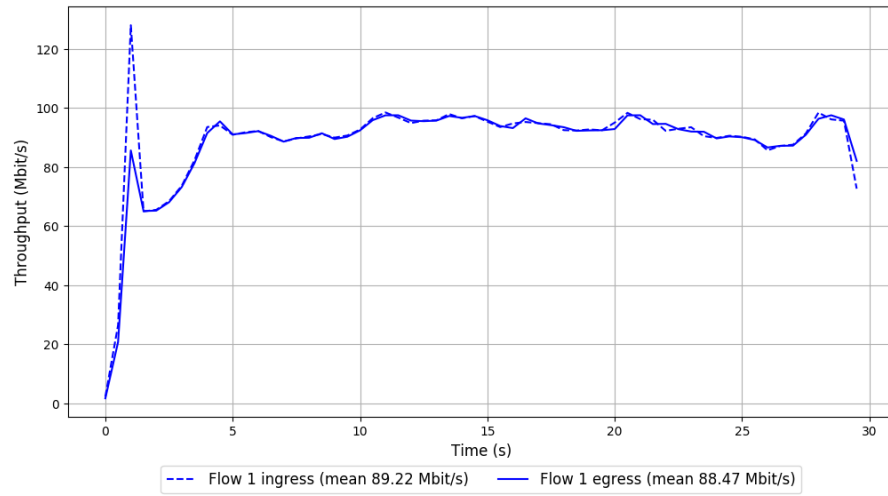
Run 6: Report of PCC — Data Link

Flow 1 ingress (mean 86.12 Mbit/s) --- Flow 1 egress (mean 85.40 Mbit/s)

• Flow 1 (95th percentile 58.76 ms)

135

```
Run 7: Statistics of PCC

Start at: Mon, 24 Jul 2017 22:16:25 +0000
End at: Mon, 24 Jul 2017 22:16:55 +0000
Local clock offset: 0.445 ms
Remote clock offset: -3.891 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:30:13 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.47 Mbit/s
95th percentile per-packet one-way delay: 56.320 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 88.47 Mbit/s
95th percentile per-packet one-way delay: 56.320 ms
Loss rate: 0.84%
```
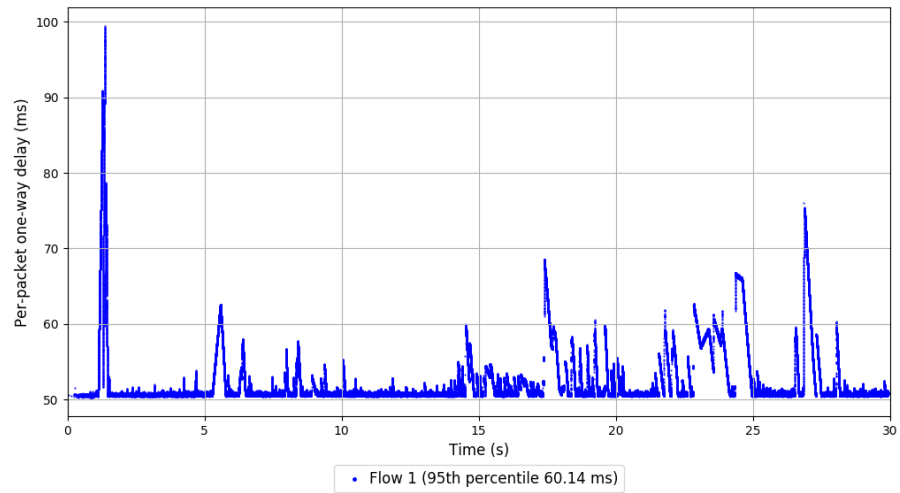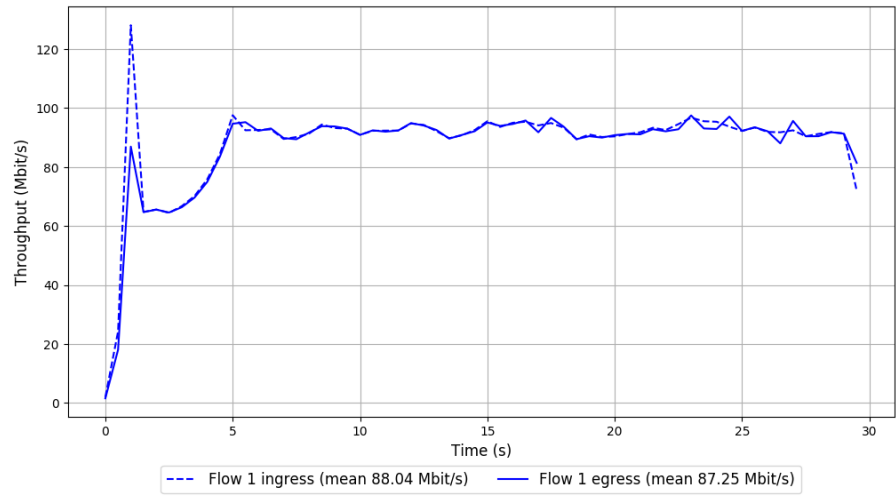
Run 7: Report of PCC — Data Link

Flow 1 ingress (mean 89.22 Mbit/s)   Flow 1 egress (mean 88.47 Mbit/s)

Flow 1 (95th percentile 56.32 ms)

```
Run 8: Statistics of PCC

Start at: Mon, 24 Jul 2017 22:38:12 +0000
End at: Mon, 24 Jul 2017 22:38:42 +0000
Local clock offset: 0.452 ms
Remote clock offset: -2.2 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:30:15 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.25 Mbit/s
95th percentile per-packet one-way delay: 60.136 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 87.25 Mbit/s
95th percentile per-packet one-way delay: 60.136 ms
Loss rate: 0.90%
```
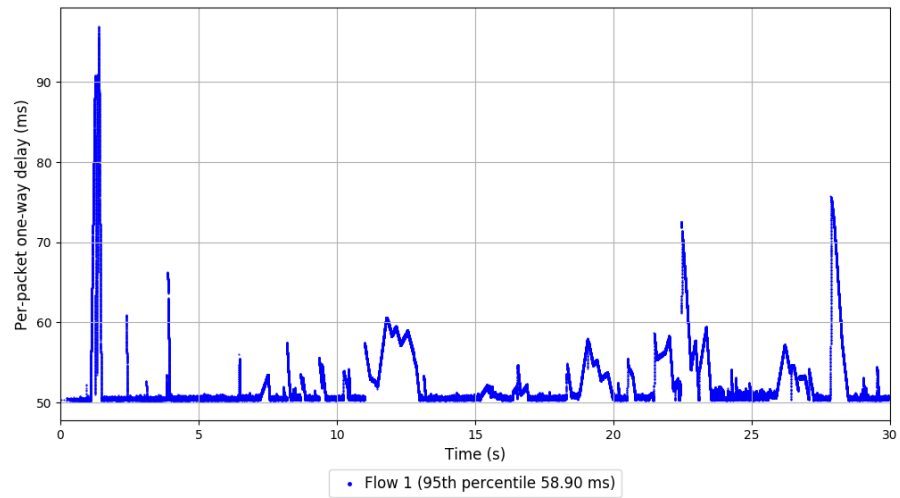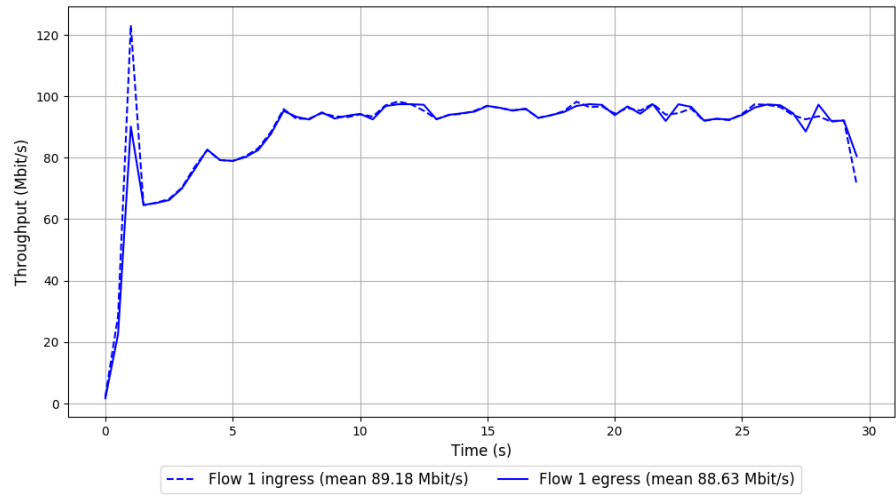
Run 8: Report of PCC — Data Link

Flow 1 ingress (mean 88.04 Mbit/s)   Flow 1 egress (mean 87.25 Mbit/s)

Flow 1 (95th percentile 60.14 ms)

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```
Run 9: Statistics of PCC

Start at: Mon, 24 Jul 2017 23:01:37 +0000
End at: Mon, 24 Jul 2017 23:02:07 +0000
Local clock offset: 0.421 ms
Remote clock offset: -2.447 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:30:25 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.63 Mbit/s
95th percentile per-packet one-way delay: 58.899 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 88.63 Mbit/s
95th percentile per-packet one-way delay: 58.899 ms
Loss rate: 0.62%
```
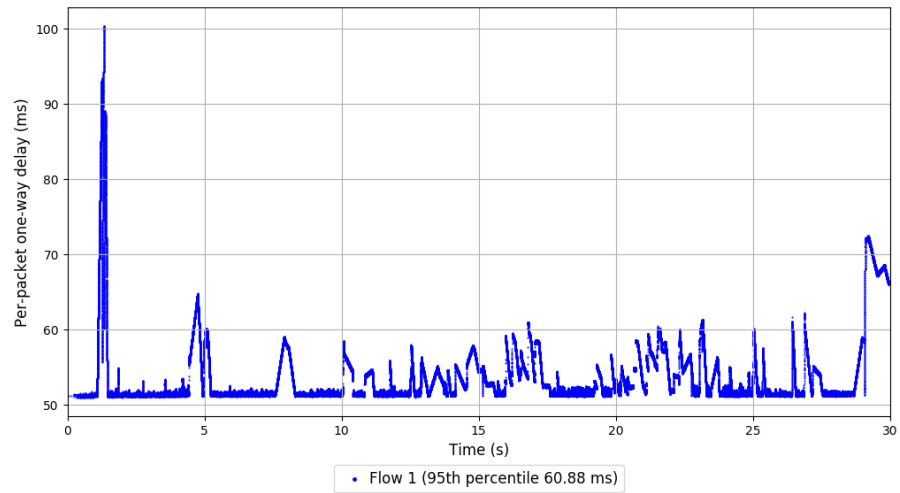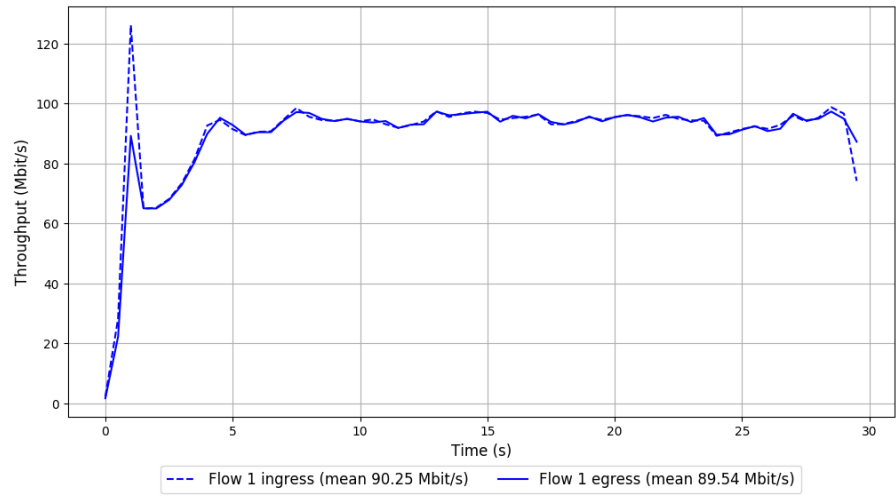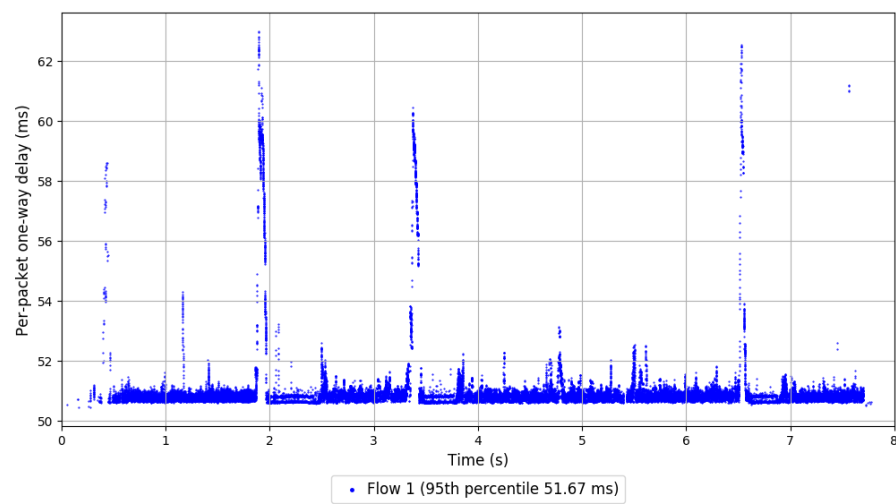
Run 9: Report of PCC — Data Link

Flow 1 ingress (mean 89.18 Mbit/s) --- Flow 1 egress (mean 88.63 Mbit/s)

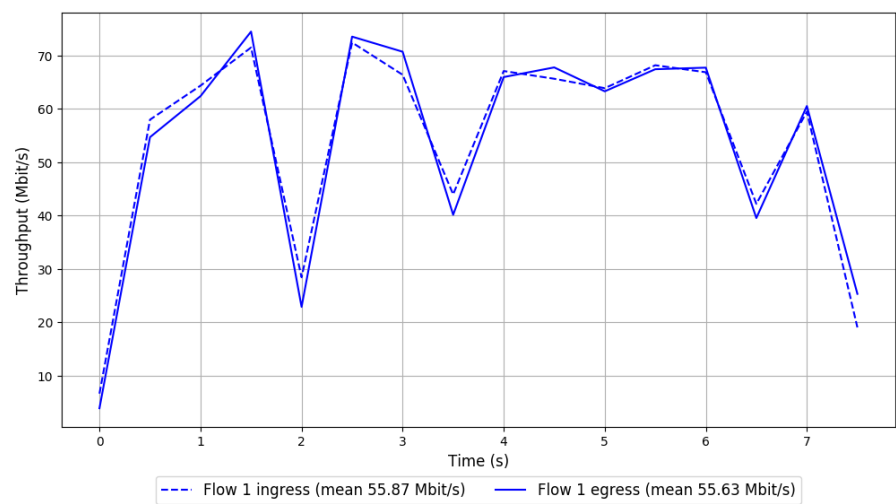Flow 1 (95th percentile 58.90 ms)

```
Run 10: Statistics of PCC

Start at: Mon, 24 Jul 2017 23:23:19 +0000
End at: Mon, 24 Jul 2017 23:23:49 +0000
Local clock offset: 0.186 ms
Remote clock offset: -2.218 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:30:28 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.54 Mbit/s
95th percentile per-packet one-way delay: 60.876 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 89.54 Mbit/s
95th percentile per-packet one-way delay: 60.876 ms
Loss rate: 0.76%
```

Run 10: Report of PCC — Data Link

Flow 1 ingress (mean 90.25 Mbit/s) --- Flow 1 egress (mean 89.54 Mbit/s)

Flow 1 (95th percentile 60.88 ms)

Run 1: Statistics of QUIC Cubic

Start at: Mon, 24 Jul 2017 20:13:39 +0000
End at: Mon, 24 Jul 2017 20:14:09 +0000
Local clock offset: -0.013 ms
Remote clock offset: -0.594 ms

Run 1: Report of QUIC Cubic — Data Link
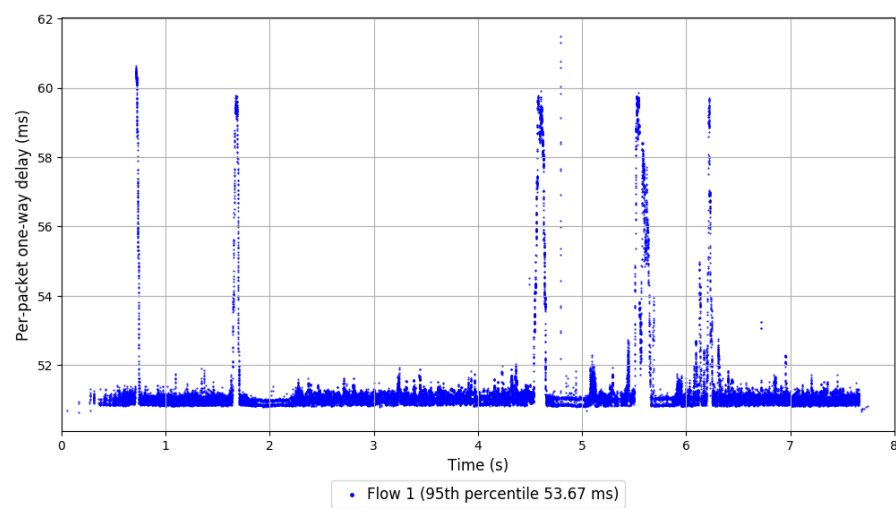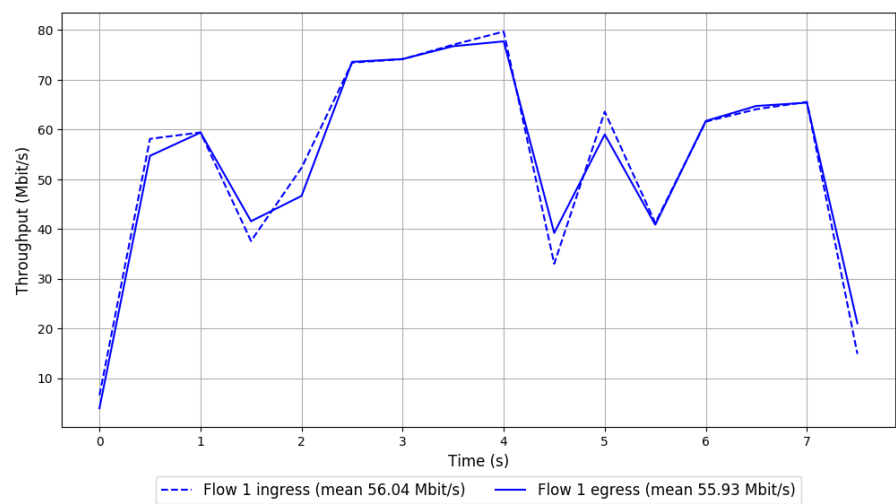
Run 2: Statistics of QUIC Cubic
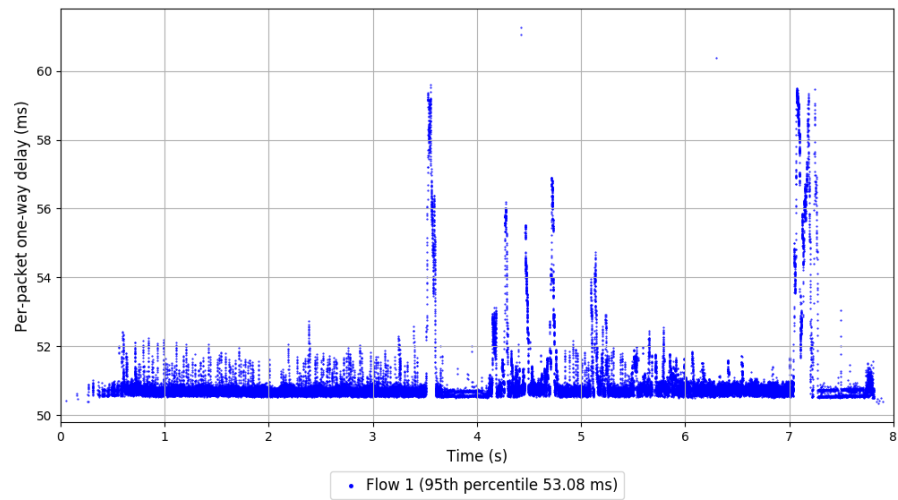
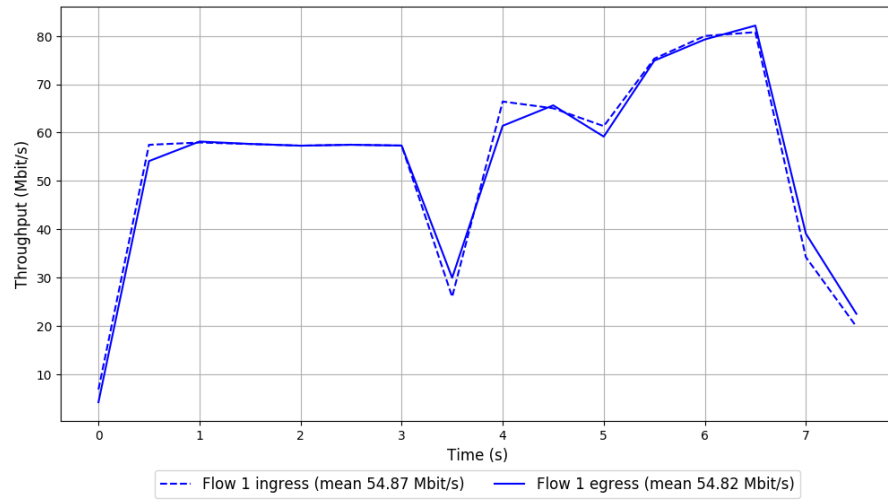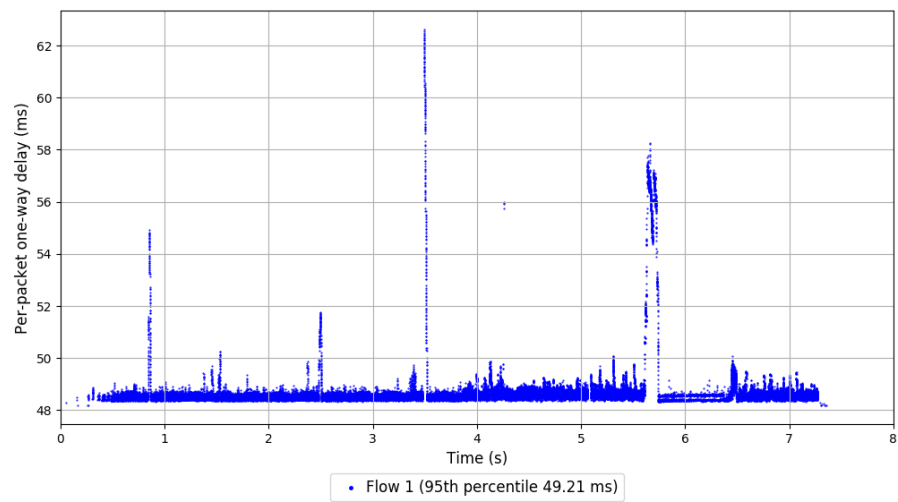Start at: Mon, 24 Jul 2017 20:34:30 +0000
End at: Mon, 24 Jul 2017 20:35:00 +0000
Local clock offset: 0.071 ms
Remote clock offset: -1.053 ms

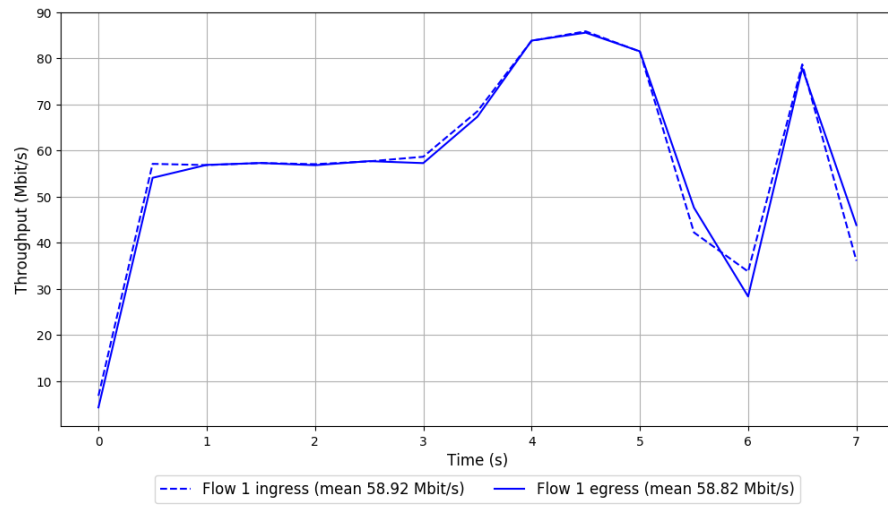Run 2: Report of QUIC Cubic — Data Link

Run 3: Statistics of QUIC Cubic

Start at: Mon, 24 Jul 2017 20:55:01 +0000
End at: Mon, 24 Jul 2017 20:55:31 +0000
Local clock offset: 0.353 ms
Remote clock offset: -1.325 ms

Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 54.87 Mbit/s)   Flow 1 egress (mean 54.82 Mbit/s)

Flow 1 (95th percentile 53.08 ms)

Run 4: Statistics of QUIC Cubic

Start at: Mon, 24 Jul 2017 21:16:49 +0000
End at: Mon, 24 Jul 2017 21:17:19 +0000
Local clock offset: 0.361 ms
Remote clock offset: -3.37 ms

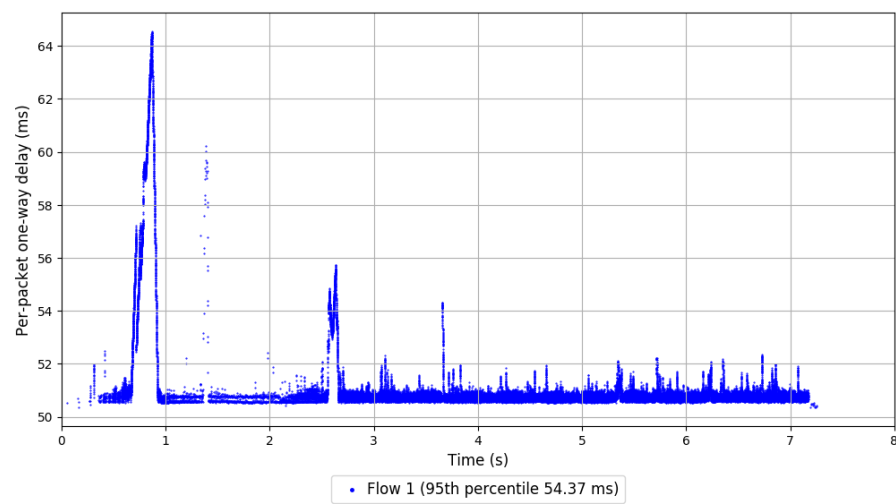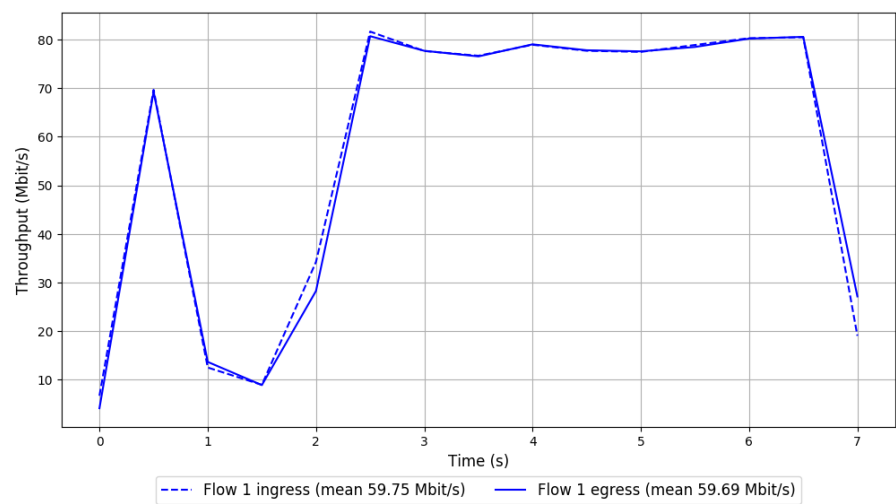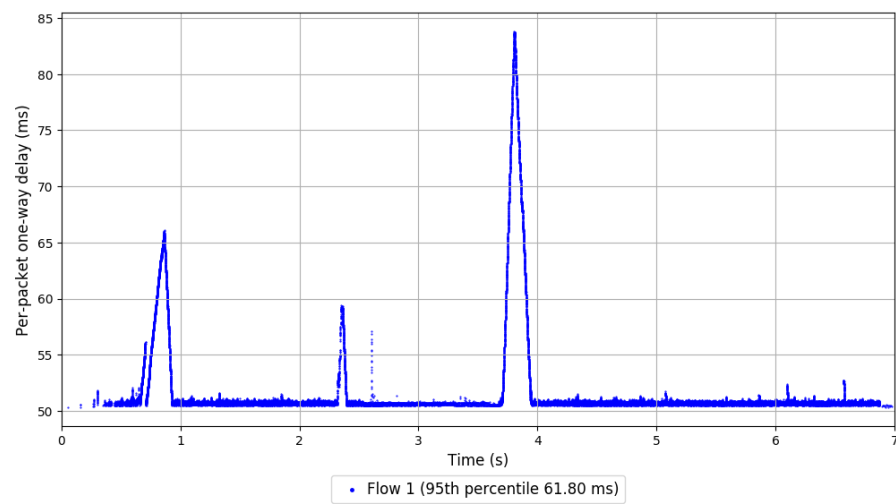Run 4: Report of QUIC Cubic — Data Link

Run 5: Statistics of QUIC Cubic

Start at: Mon, 24 Jul 2017 21:38:04 +0000
End at: Mon, 24 Jul 2017 21:38:34 +0000
Local clock offset: 0.313 ms
Remote clock offset: -1.359 ms

Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 59.75 Mbit/s)   Flow 1 egress (mean 59.69 Mbit/s)

Flow 1 (95th percentile 54.37 ms)
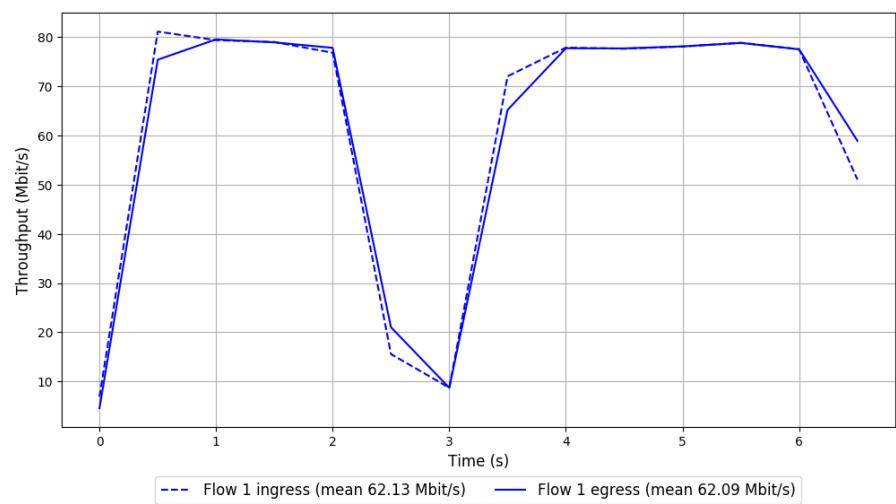
Run 6: Statistics of QUIC Cubic

Start at: Mon, 24 Jul 2017 21:58:38 +0000
End at: Mon, 24 Jul 2017 21:59:08 +0000
Local clock offset: 0.36 ms
Remote clock offset: -1.617 ms

Run 6: Report of QUIC Cubic — Data Link

Run 7: Statistics of QUIC Cubic

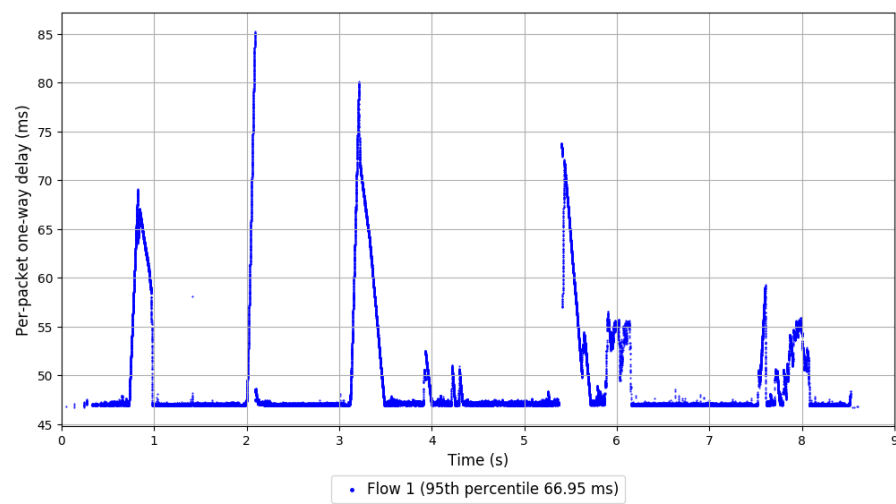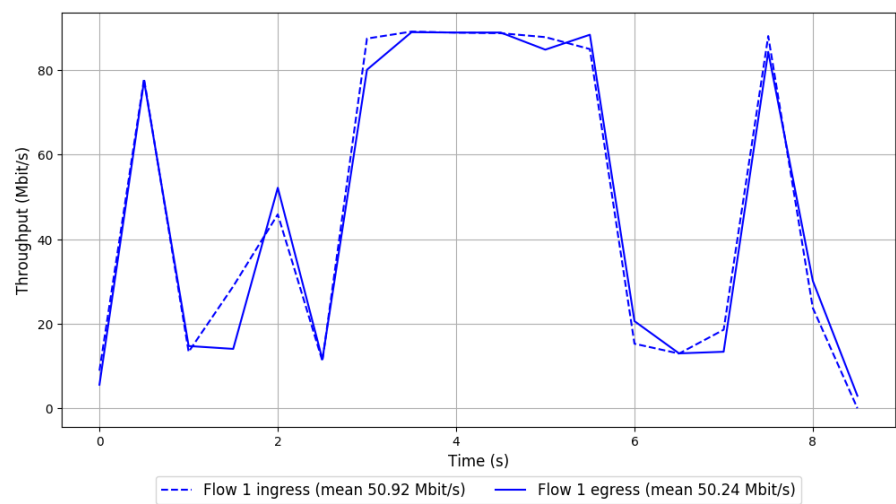Start at: Mon, 24 Jul 2017 22:19:26 +0000
End at: Mon, 24 Jul 2017 22:19:56 +0000
Local clock offset: 0.486 ms
Remote clock offset: -3.838 ms

Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 50.92 Mbit/s)   Flow 1 egress (mean 50.24 Mbit/s)

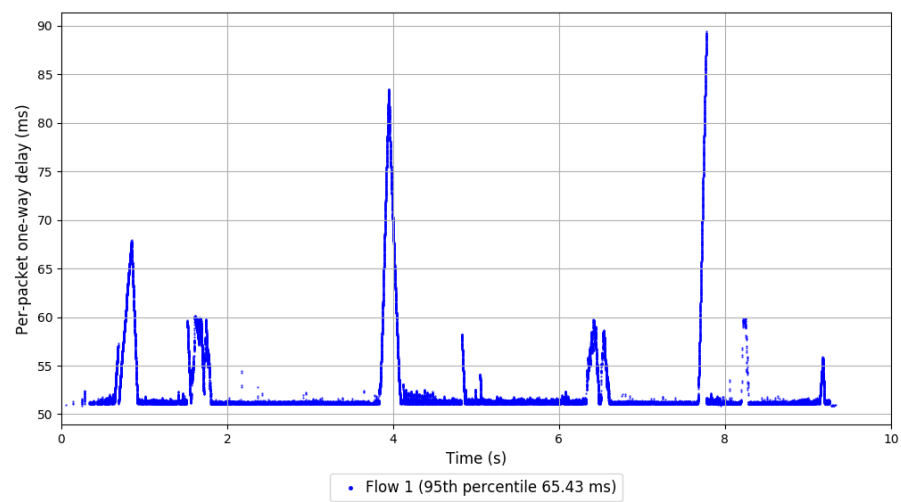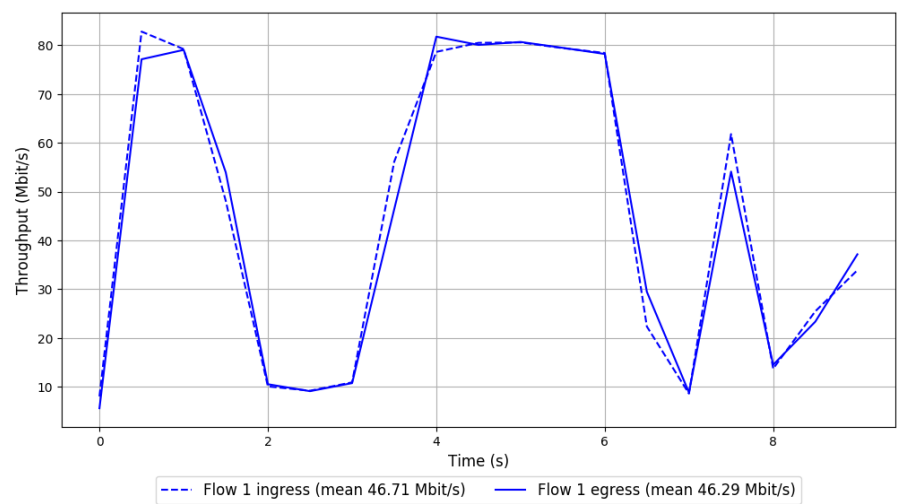• Flow 1 (95th percentile 66.95 ms)

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```
Run 8: Statistics of QUIC Cubic

Start at: Mon, 24 Jul 2017 22:41:25 +0000
End at: Mon, 24 Jul 2017 22:41:55 +0000
Local clock offset: 0.359 ms
Remote clock offset: -1.685 ms
```

Run 8: Report of QUIC Cubic — Data Link

```
Run 9: Statistics of QUIC Cubic

Start at: Mon, 24 Jul 2017 23:05:02 +0000
End at: Mon, 24 Jul 2017 23:05:32 +0000
Local clock offset: 0.341 ms
Remote clock offset: -2.555 ms
```
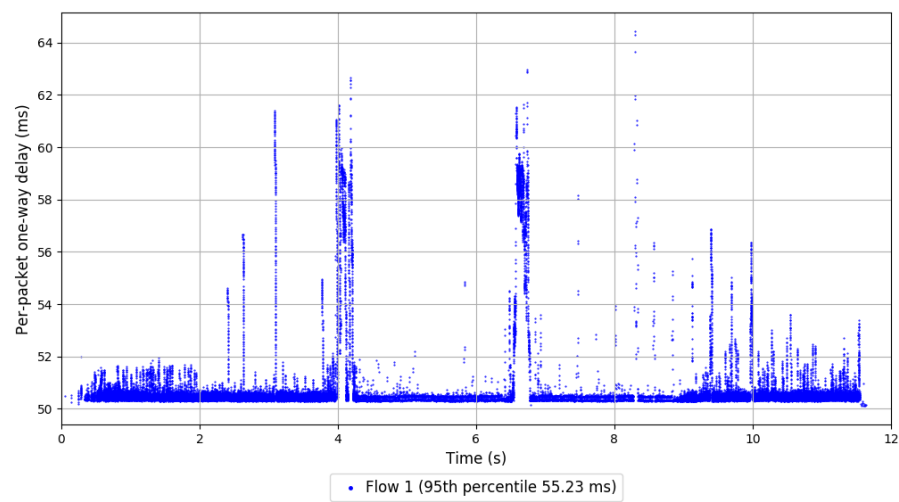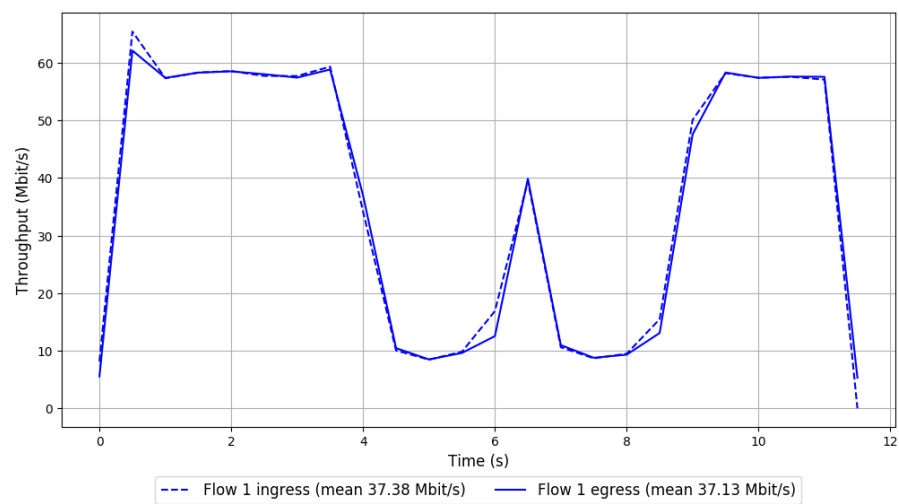
Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 37.38 Mbit/s)   Flow 1 egress (mean 37.13 Mbit/s)

Flow 1 (95th percentile 55.23 ms)
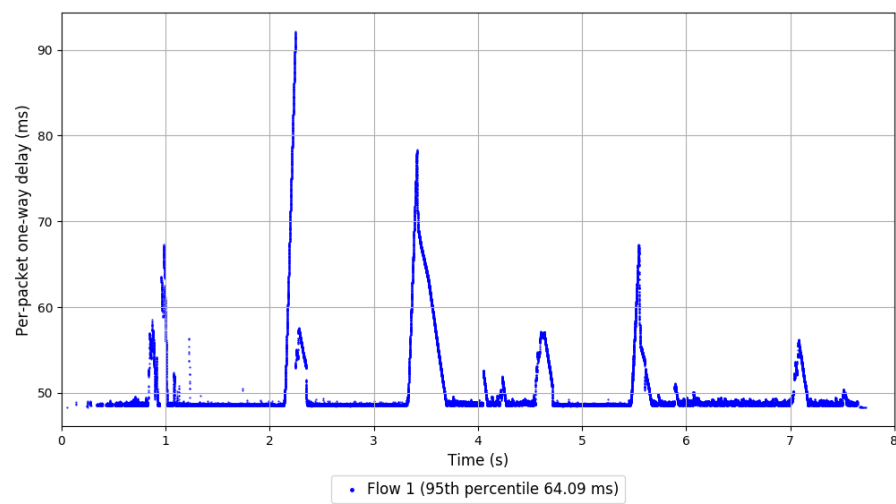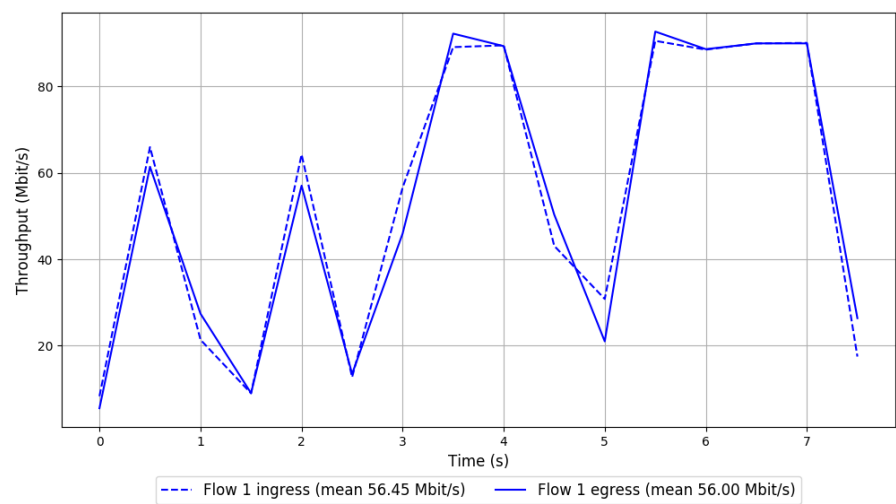
Run 10: Statistics of QUIC Cubic

Start at: Mon, 24 Jul 2017 23:26:09 +0000
End at: Mon, 24 Jul 2017 23:26:39 +0000
Local clock offset: 0.285 ms
Remote clock offset: -4.779 ms

Run 10: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of Saturator

Start at: Mon, 24 Jul 2017 20:01:34 +0000
End at: Mon, 24 Jul 2017 20:02:04 +0000
Local clock offset: -0.154 ms
Remote clock offset: -2.941 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:30:44 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.04 Mbit/s
95th percentile per-packet one-way delay: 49.100 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.04 Mbit/s
95th percentile per-packet one-way delay: 49.100 ms
Loss rate: 0.00%
```
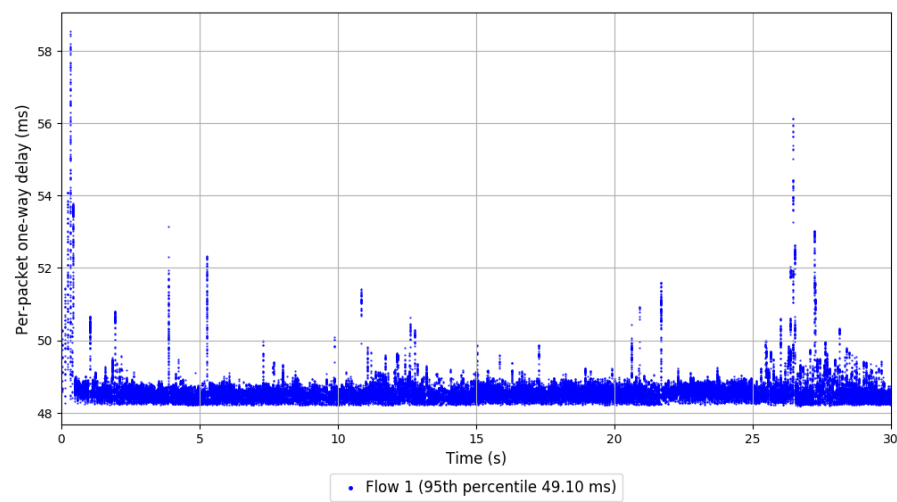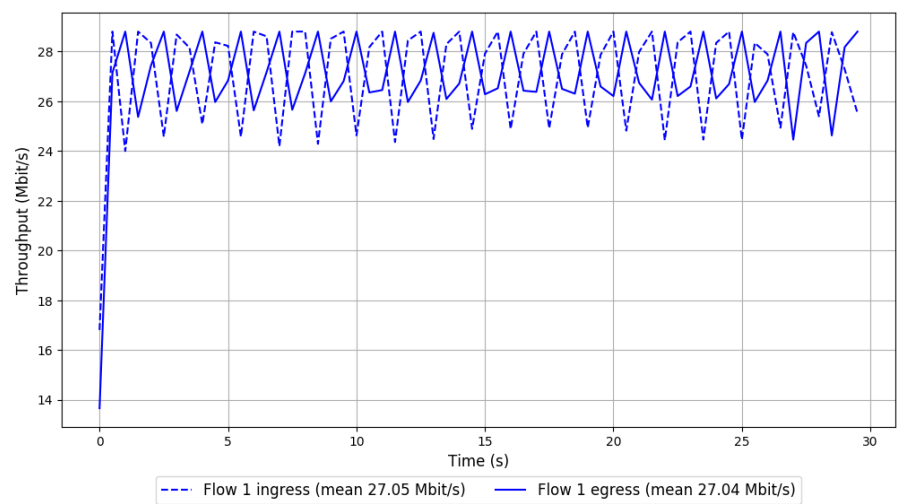
Run 1: Report of Saturator — Data Link

Flow 1 ingress (mean 27.05 Mbit/s)   Flow 1 egress (mean 27.04 Mbit/s)

Flow 1 (95th percentile 49.10 ms)

```
Run 2: Statistics of Saturator

Start at: Mon, 24 Jul 2017 20:22:05 +0000
End at: Mon, 24 Jul 2017 20:22:35 +0000
Local clock offset: 0.037 ms
Remote clock offset: -3.407 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:30:45 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.95 Mbit/s
95th percentile per-packet one-way delay: 49.143 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 26.95 Mbit/s
95th percentile per-packet one-way delay: 49.143 ms
Loss rate: 0.04%
```
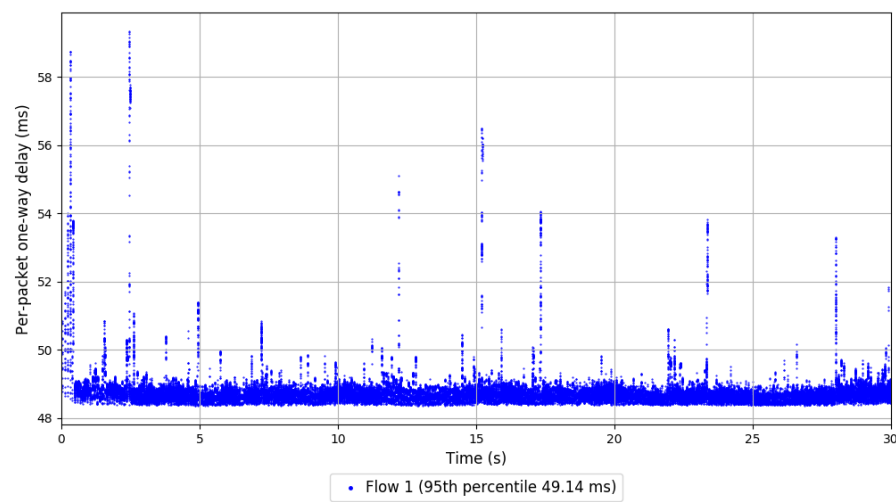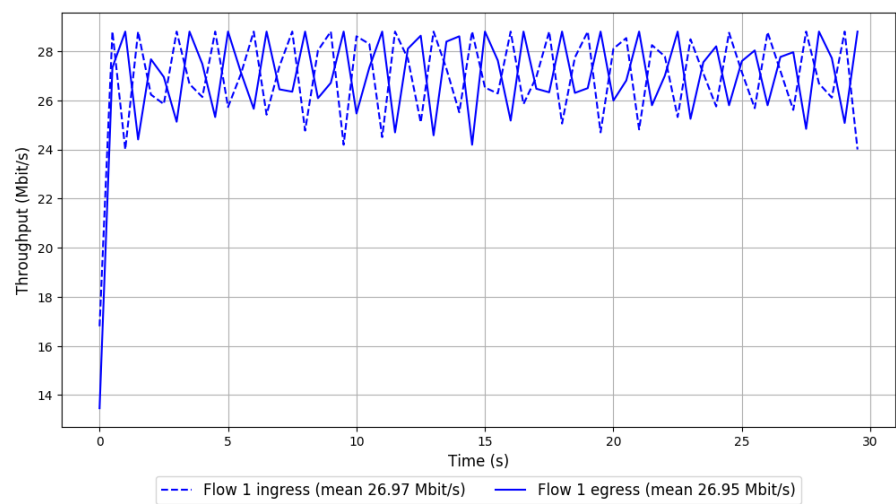
Run 2: Report of Saturator — Data Link

Flow 1 ingress (mean 26.97 Mbit/s)   Flow 1 egress (mean 26.95 Mbit/s)

Flow 1 (95th percentile 49.14 ms)

```
Run 3: Statistics of Saturator

Start at: Mon, 24 Jul 2017 20:42:39 +0000
End at: Mon, 24 Jul 2017 20:43:09 +0000
Local clock offset: 0.271 ms
Remote clock offset: -1.109 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:30:48 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.94 Mbit/s
95th percentile per-packet one-way delay: 52.137 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 26.94 Mbit/s
95th percentile per-packet one-way delay: 52.137 ms
Loss rate: 0.01%
```
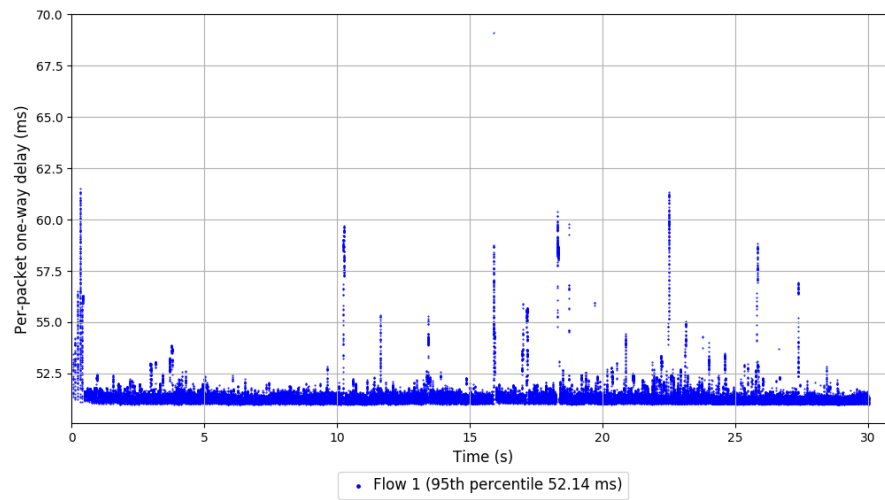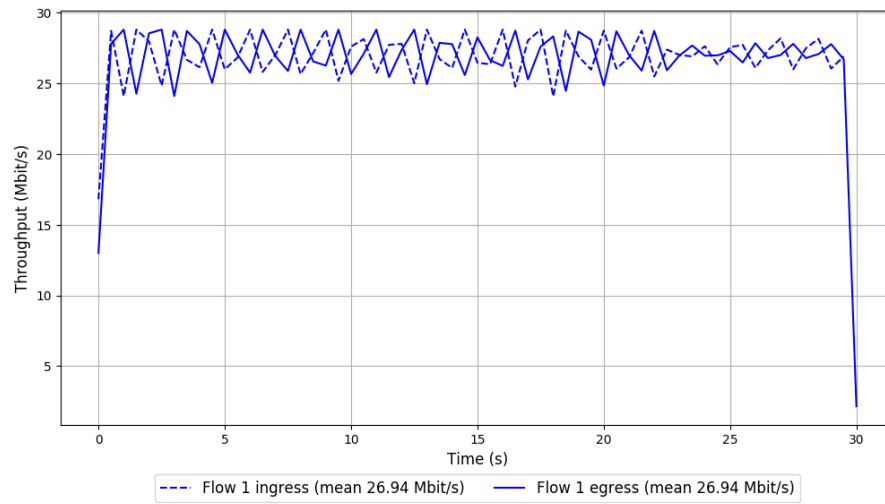
Run 3: Report of Saturator — Data Link

```
Run 4: Statistics of Saturator

Start at: Mon, 24 Jul 2017 21:03:38 +0000
End at: Mon, 24 Jul 2017 21:04:08 +0000
Local clock offset: 0.282 ms
Remote clock offset: -3.25 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:30:49 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.93 Mbit/s
95th percentile per-packet one-way delay: 49.355 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 26.93 Mbit/s
95th percentile per-packet one-way delay: 49.355 ms
Loss rate: 0.08%
```
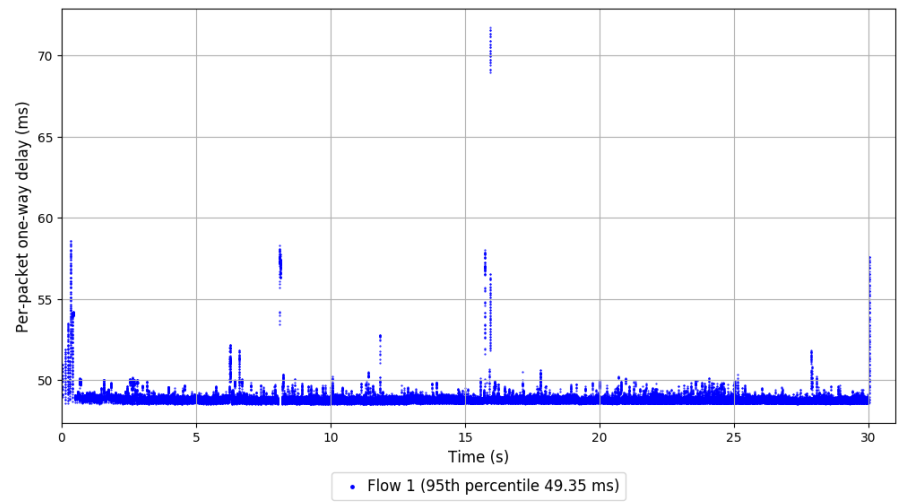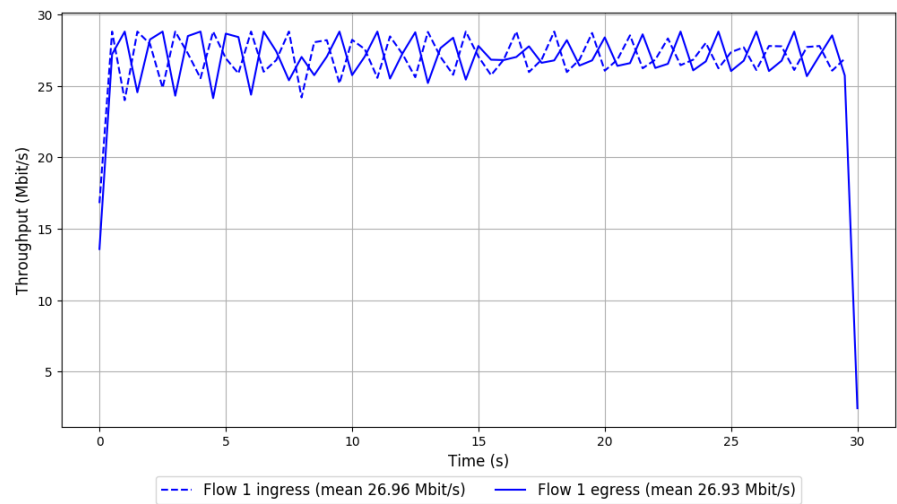
Run 4: Report of Saturator — Data Link

Flow 1 ingress (mean 26.96 Mbit/s) — Flow 1 egress (mean 26.93 Mbit/s)

Flow 1 (95th percentile 49.35 ms)

```
Run 5: Statistics of Saturator

Start at: Mon, 24 Jul 2017 21:25:48 +0000
End at: Mon, 24 Jul 2017 21:26:18 +0000
Local clock offset: 0.266 ms
Remote clock offset: -0.793 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:30:53 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.04 Mbit/s
95th percentile per-packet one-way delay: 51.713 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.04 Mbit/s
95th percentile per-packet one-way delay: 51.713 ms
Loss rate: 0.00%
```
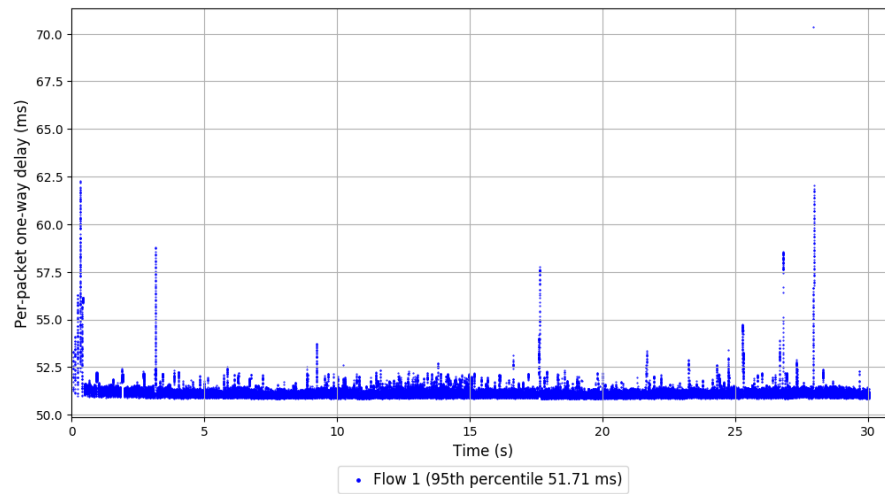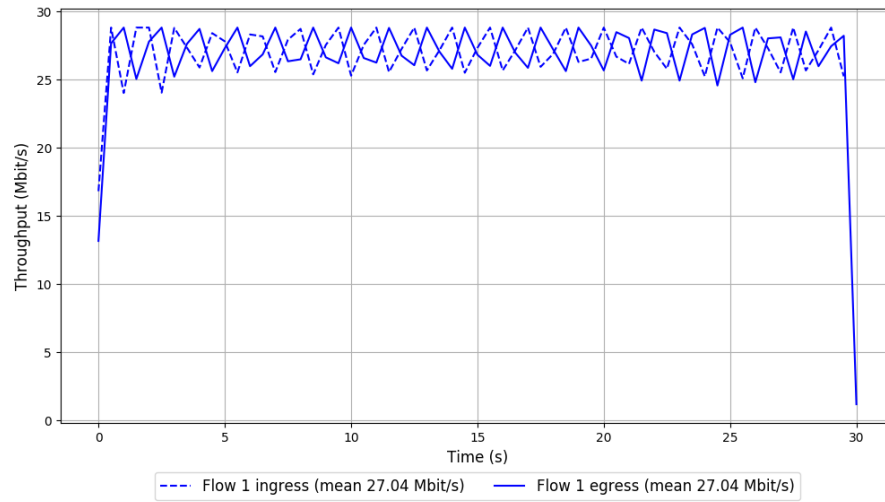
Run 5: Report of Saturator — Data Link

```
Run 6: Statistics of Saturator

Start at: Mon, 24 Jul 2017 21:46:32 +0000
End at: Mon, 24 Jul 2017 21:47:02 +0000
Local clock offset: 0.42 ms
Remote clock offset: -3.501 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:30:54 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.90 Mbit/s
95th percentile per-packet one-way delay: 49.272 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 26.90 Mbit/s
95th percentile per-packet one-way delay: 49.272 ms
Loss rate: 0.10%
```
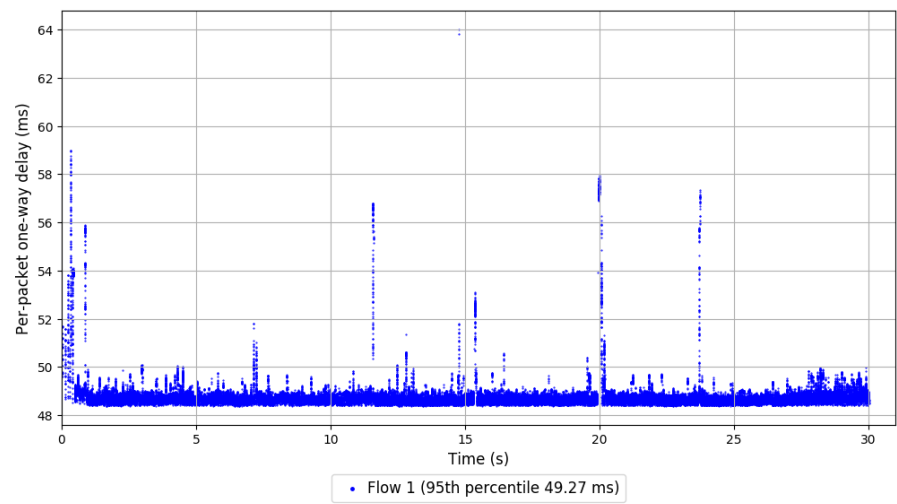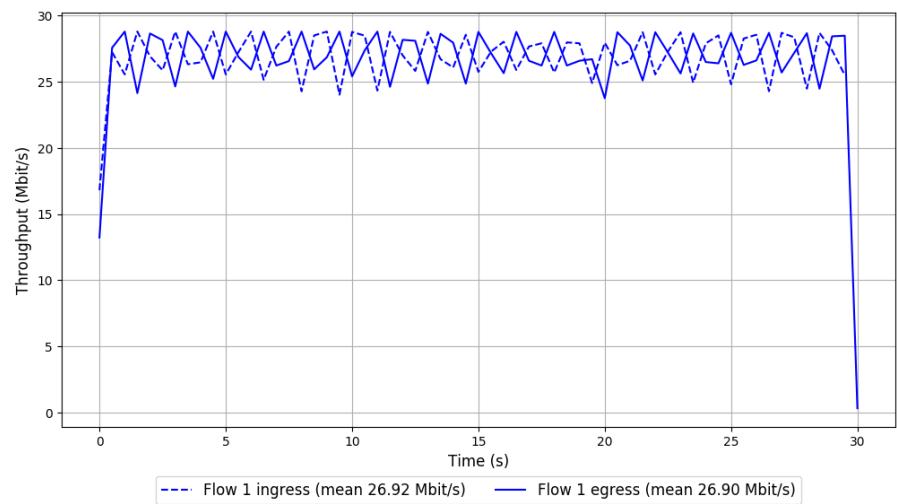
Run 6: Report of Saturator — Data Link

Flow 1 ingress (mean 26.92 Mbit/s)   Flow 1 egress (mean 26.90 Mbit/s)

Flow 1 (95th percentile 49.27 ms)

```
Run 7: Statistics of Saturator

Start at: Mon, 24 Jul 2017 22:06:50 +0000
End at: Mon, 24 Jul 2017 22:07:20 +0000
Local clock offset: 0.345 ms
Remote clock offset: -1.287 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:30:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.02 Mbit/s
95th percentile per-packet one-way delay: 51.576 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 27.02 Mbit/s
95th percentile per-packet one-way delay: 51.576 ms
Loss rate: 0.06%
```
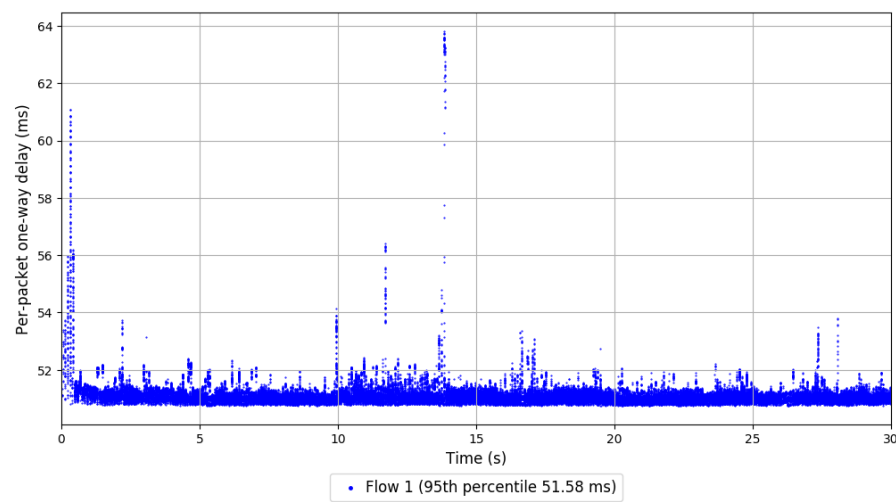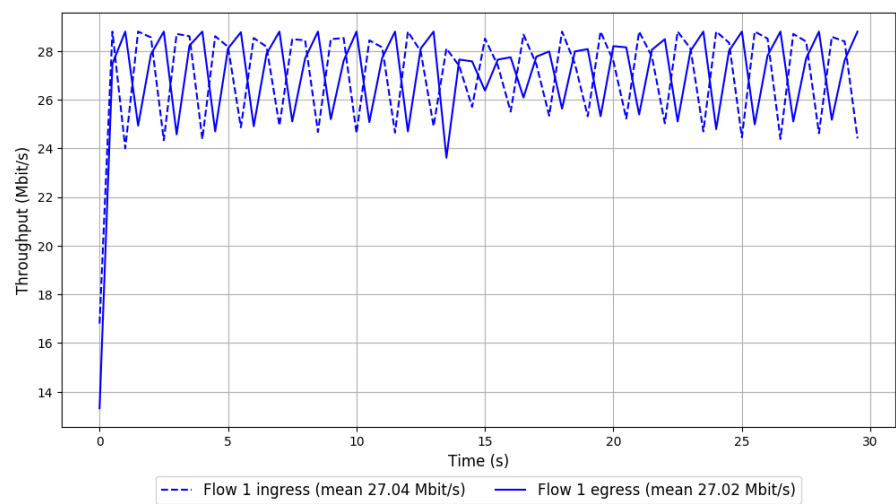
Run 7: Report of Saturator — Data Link

Flow 1 ingress (mean 27.04 Mbit/s)   Flow 1 egress (mean 27.02 Mbit/s)

Flow 1 (95th percentile 51.58 ms)

```
Run 8: Statistics of Saturator

Start at: Mon, 24 Jul 2017 22:28:01 +0000
End at: Mon, 24 Jul 2017 22:28:31 +0000
Local clock offset: 0.518 ms
Remote clock offset: -2.046 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:30:58 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.76 Mbit/s
95th percentile per-packet one-way delay: 54.895 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 26.76 Mbit/s
95th percentile per-packet one-way delay: 54.895 ms
Loss rate: 0.44%
```
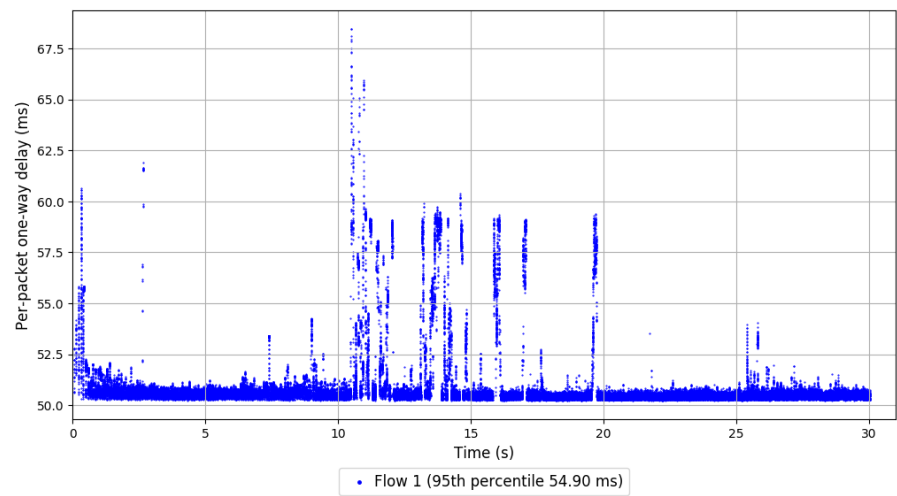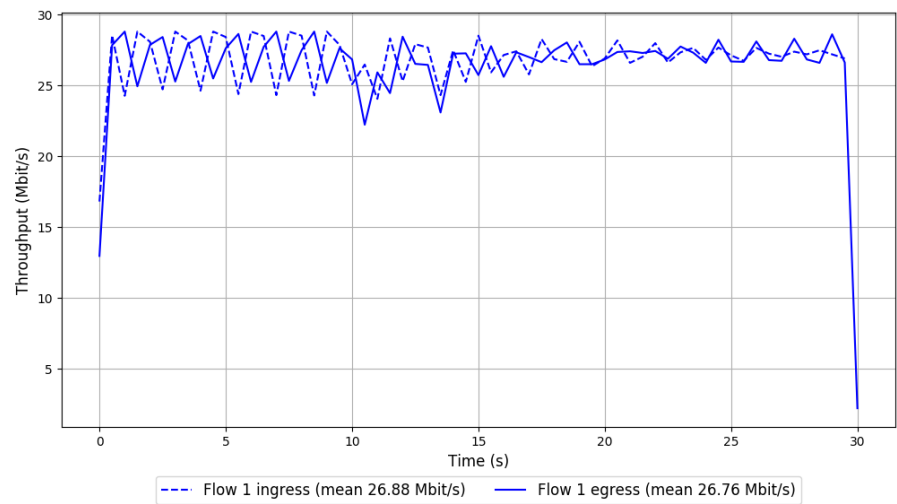
Run 8: Report of Saturator — Data Link

Flow 1 ingress (mean 26.88 Mbit/s) —— Flow 1 egress (mean 26.76 Mbit/s)

• Flow 1 (95th percentile 54.90 ms)

```
Run 9: Statistics of Saturator

Start at: Mon, 24 Jul 2017 22:50:54 +0000
End at: Mon, 24 Jul 2017 22:51:24 +0000
Local clock offset: 0.406 ms
Remote clock offset: -4.381 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:00 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.91 Mbit/s
95th percentile per-packet one-way delay: 49.736 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 26.91 Mbit/s
95th percentile per-packet one-way delay: 49.736 ms
Loss rate: 0.12%
```
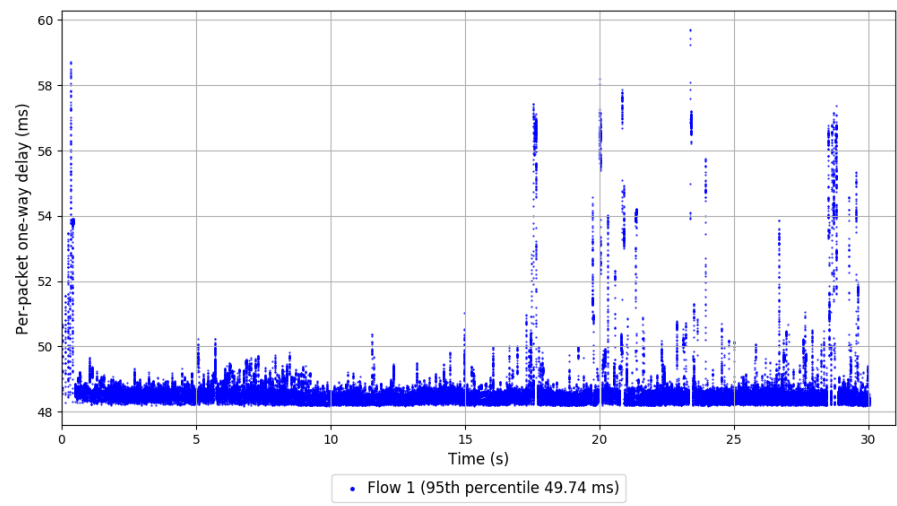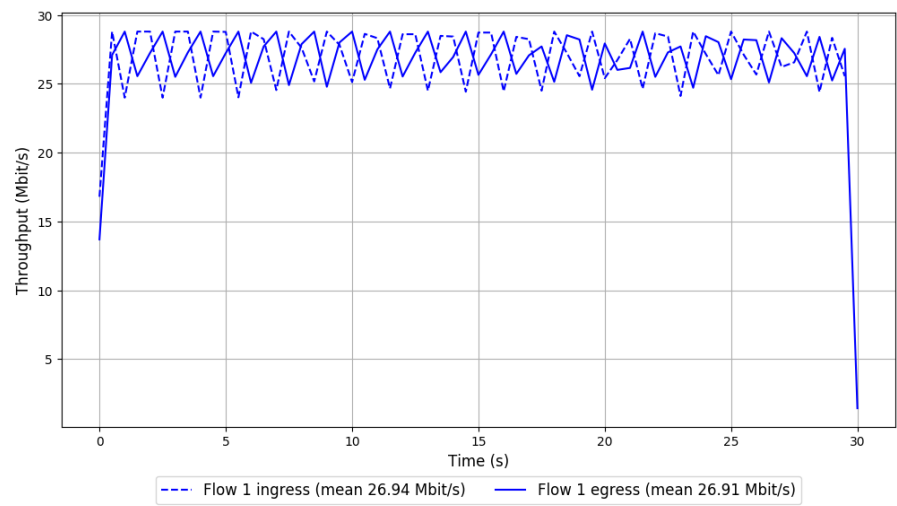
Run 9: Report of Saturator — Data Link

Flow 1 ingress (mean 26.94 Mbit/s)　　Flow 1 egress (mean 26.91 Mbit/s)

Flow 1 (95th percentile 49.74 ms)

```
Run 10: Statistics of Saturator

Start at: Mon, 24 Jul 2017 23:13:29 +0000
End at: Mon, 24 Jul 2017 23:14:00 +0000
Local clock offset: 0.286 ms
Remote clock offset: -2.684 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:03 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.96 Mbit/s
95th percentile per-packet one-way delay: 51.259 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.96 Mbit/s
95th percentile per-packet one-way delay: 51.259 ms
Loss rate: 0.00%
```
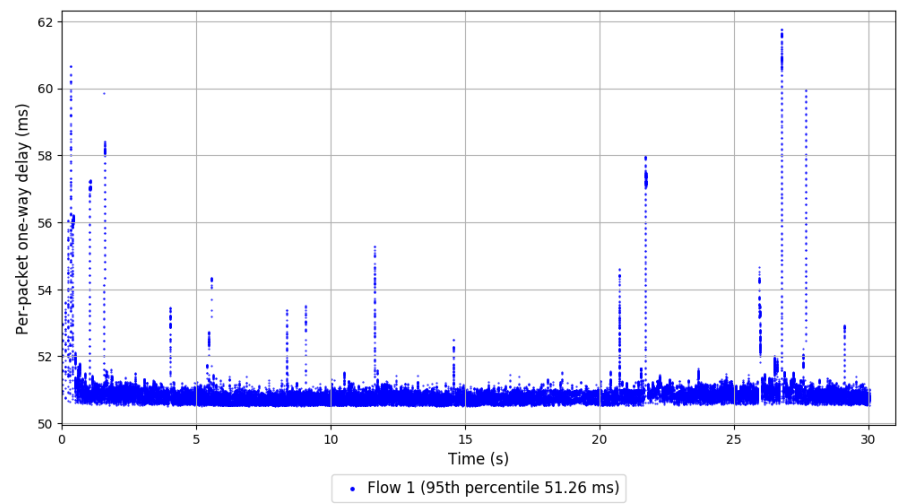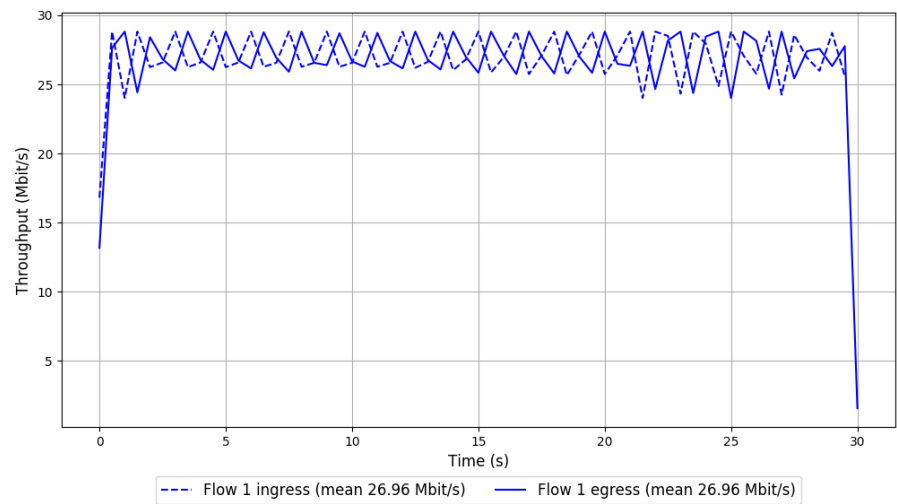
Run 10: Report of Saturator — Data Link

```
Run 1: Statistics of SCReAM

Start at: Mon, 24 Jul 2017 20:05:38 +0000
End at: Mon, 24 Jul 2017 20:06:08 +0000
Local clock offset: -0.043 ms
Remote clock offset: -0.75 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:03 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 50.913 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 50.913 ms
Loss rate: 0.18%
```
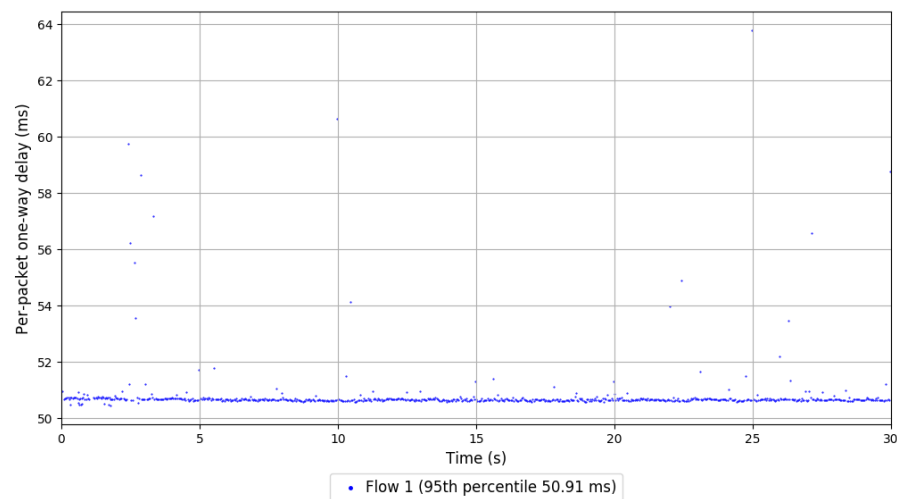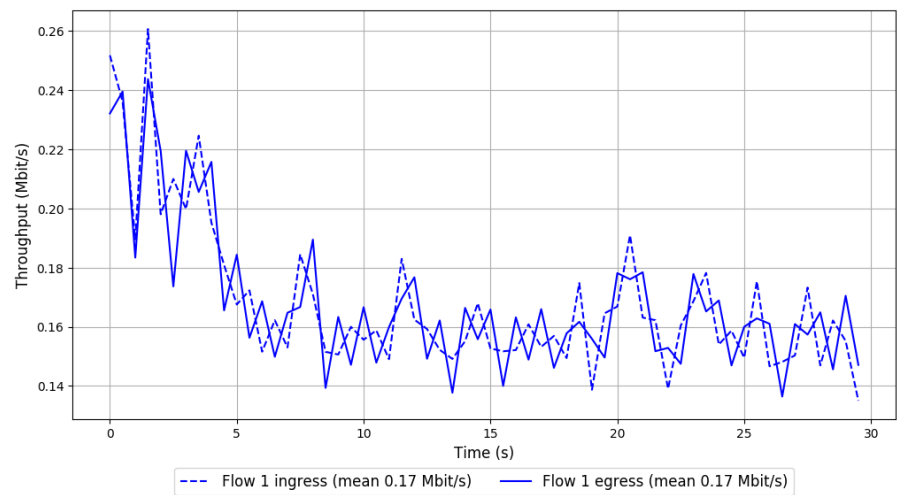
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: Mon, 24 Jul 2017 20:26:24 +0000
End at: Mon, 24 Jul 2017 20:26:54 +0000
Local clock offset: -0.052 ms
Remote clock offset: -1.443 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:03 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 49.267 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 49.267 ms
Loss rate: 0.18%
```
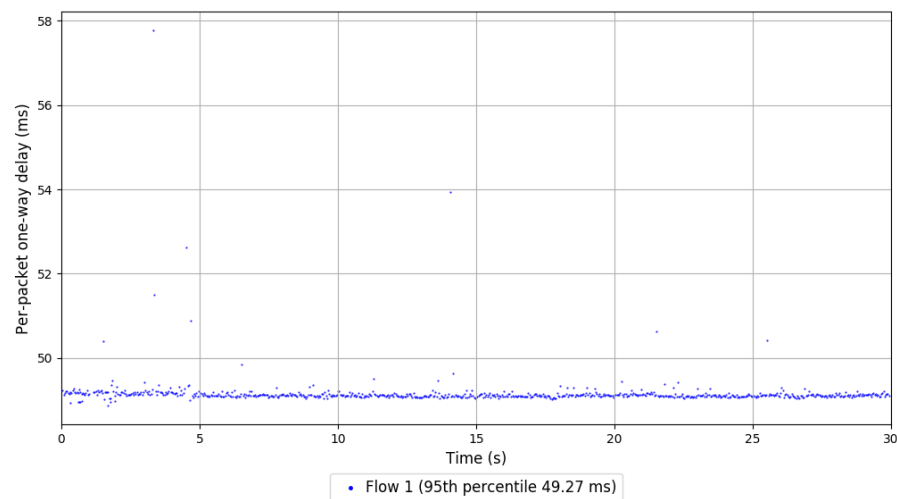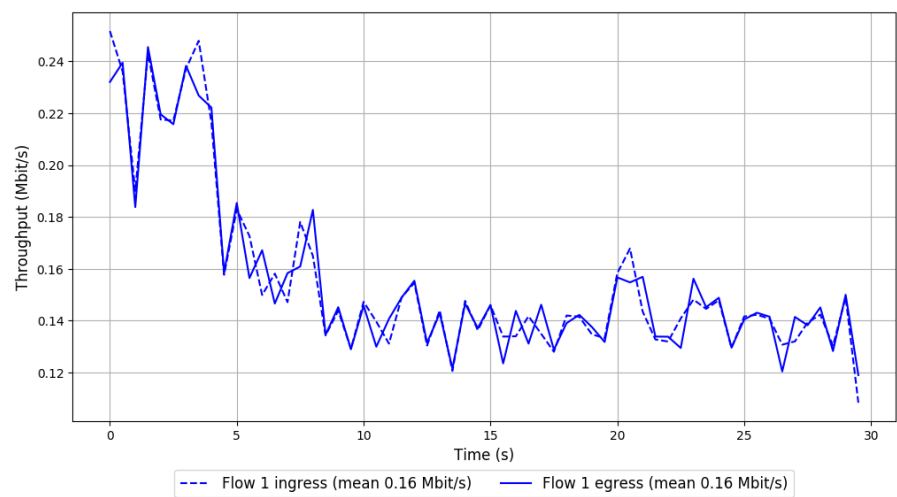
Run 2: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.16 Mbit/s) --- Flow 1 egress (mean 0.16 Mbit/s)

Flow 1 (95th percentile 49.27 ms)

```
Run 3: Statistics of SCReAM

Start at: Mon, 24 Jul 2017 20:46:53 +0000
End at: Mon, 24 Jul 2017 20:47:23 +0000
Local clock offset: 0.291 ms
Remote clock offset: -1.538 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:04 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.138 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.138 ms
Loss rate: 0.00%
```
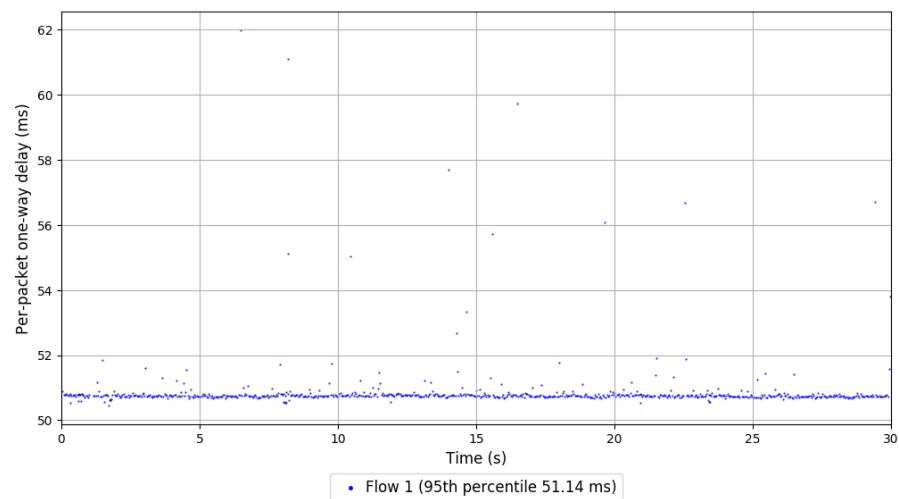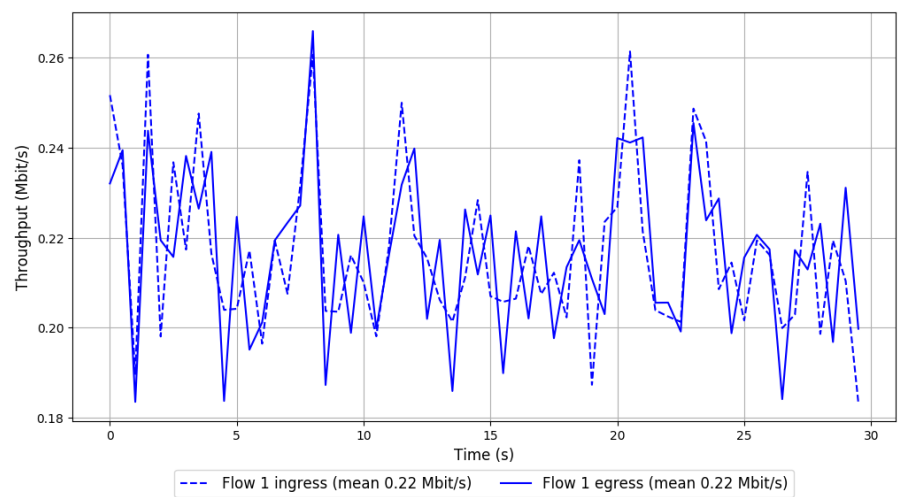
Run 3: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 51.14 ms)

```
Run 4: Statistics of SCReAM

Start at: Mon, 24 Jul 2017 21:08:08 +0000
End at: Mon, 24 Jul 2017 21:08:38 +0000
Local clock offset: 0.262 ms
Remote clock offset: -3.323 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:04 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.528 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.528 ms
Loss rate: 0.00%
```
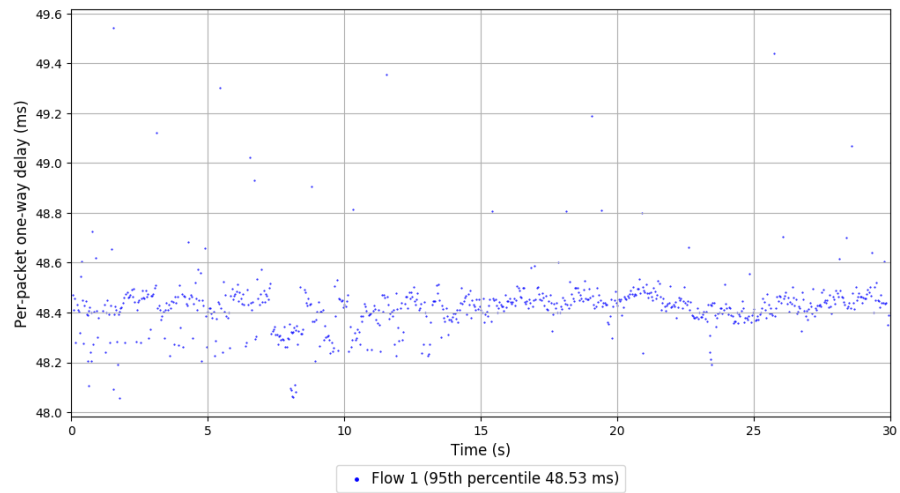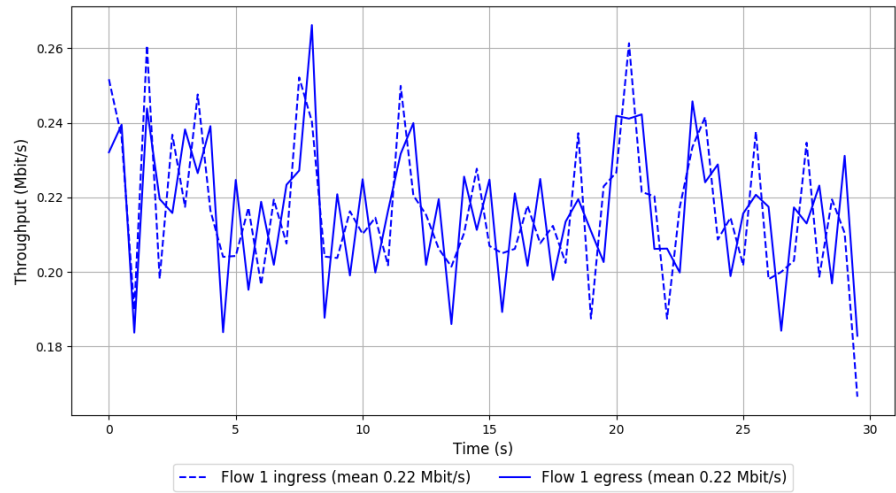
Run 4: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 48.53 ms)

```
Run 5: Statistics of SCReAM

Start at: Mon, 24 Jul 2017 21:29:57 +0000
End at: Mon, 24 Jul 2017 21:30:27 +0000
Local clock offset: 0.382 ms
Remote clock offset: -3.456 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:05 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.640 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.640 ms
Loss rate: 0.00%
```
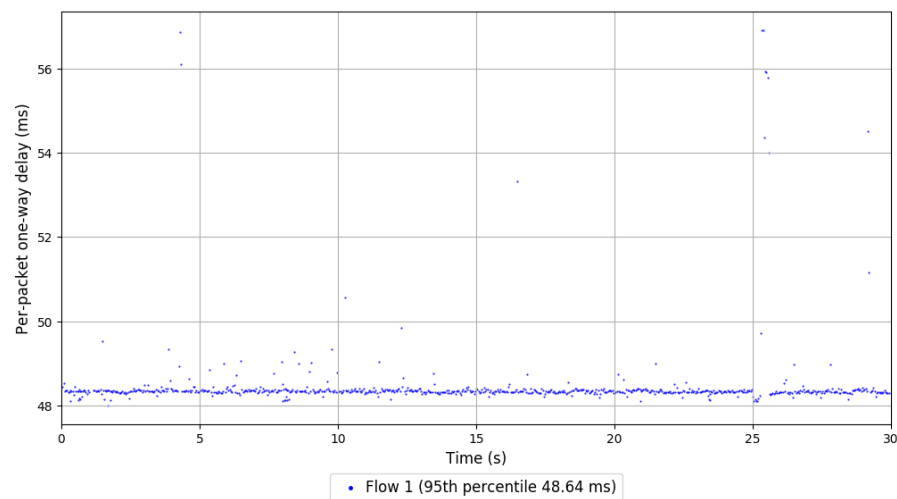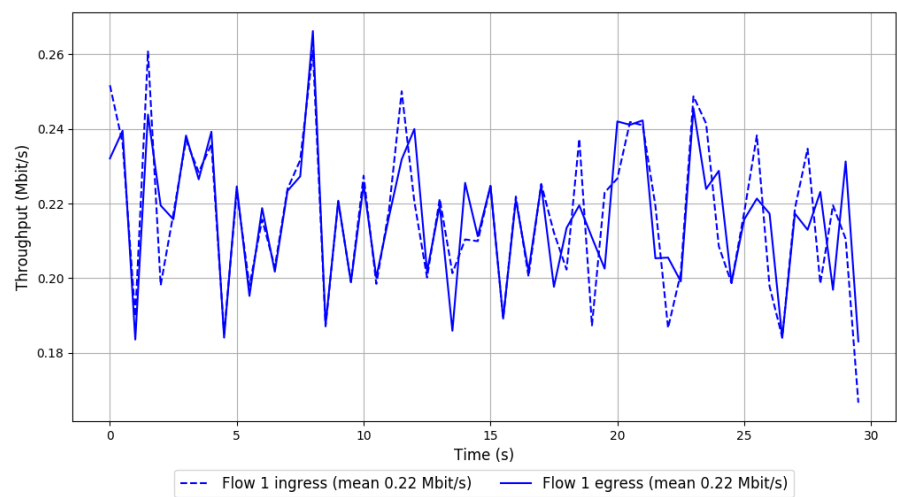
Run 5: Report of SCReAM — Data Link

```
Run 6: Statistics of SCReAM

Start at: Mon, 24 Jul 2017 21:50:44 +0000
End at: Mon, 24 Jul 2017 21:51:14 +0000
Local clock offset: 0.42 ms
Remote clock offset: -0.977 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:05 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.052 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.052 ms
Loss rate: 0.00%
```
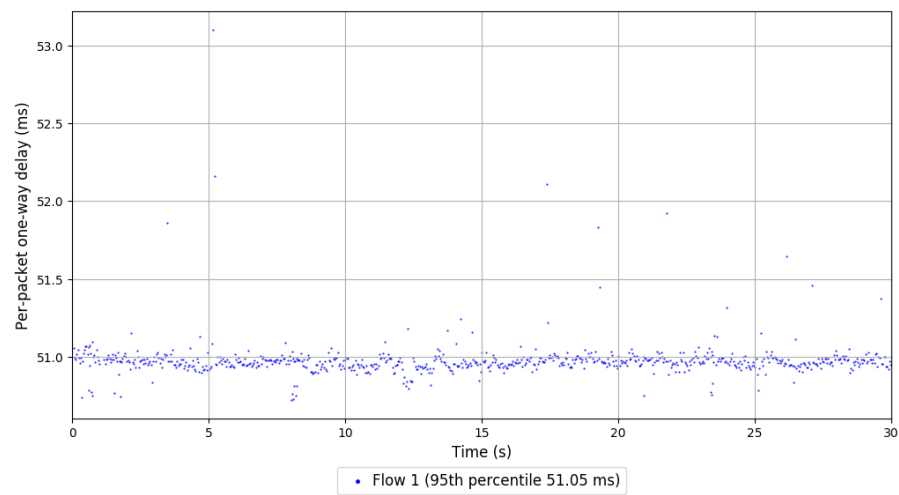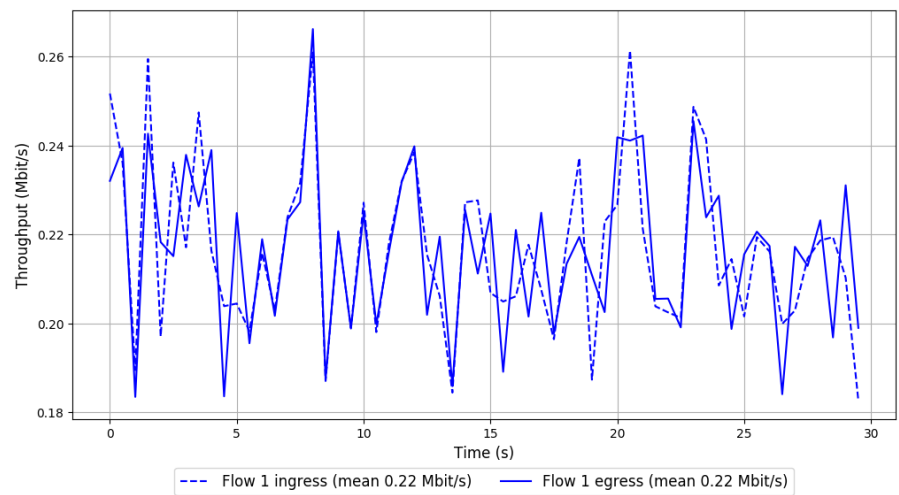
Run 6: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 51.05 ms)

```
Run 7: Statistics of SCReAM

Start at: Mon, 24 Jul 2017 22:10:59 +0000
End at: Mon, 24 Jul 2017 22:11:29 +0000
Local clock offset: 0.374 ms
Remote clock offset: -3.857 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:06 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.794 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.794 ms
Loss rate: 0.00%
```
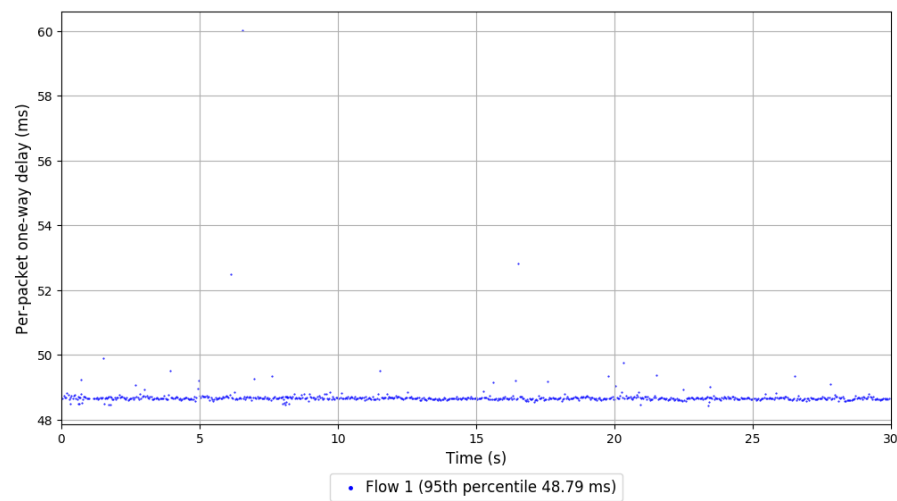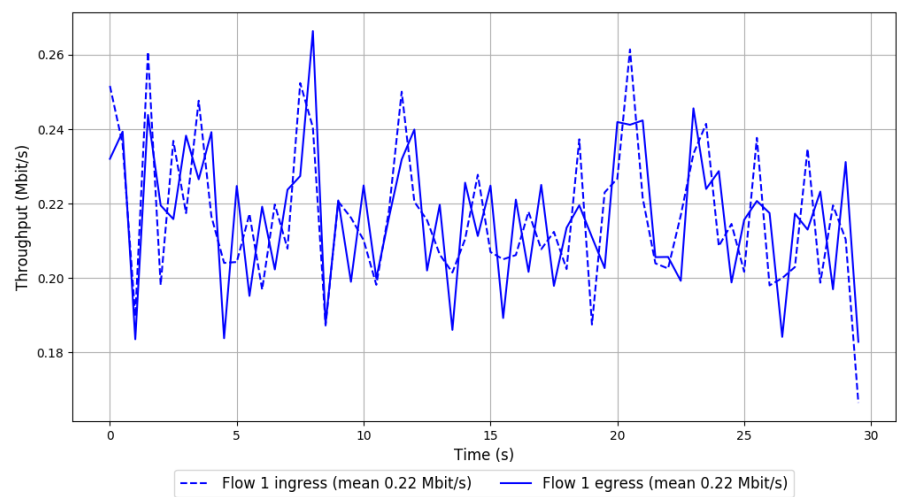
Run 7: Report of SCReAM — Data Link

```
Run 8: Statistics of SCReAM

Start at: Mon, 24 Jul 2017 22:32:51 +0000
End at: Mon, 24 Jul 2017 22:33:21 +0000
Local clock offset: 0.459 ms
Remote clock offset: -4.148 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:07 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 48.551 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 48.551 ms
Loss rate: 0.19%
```
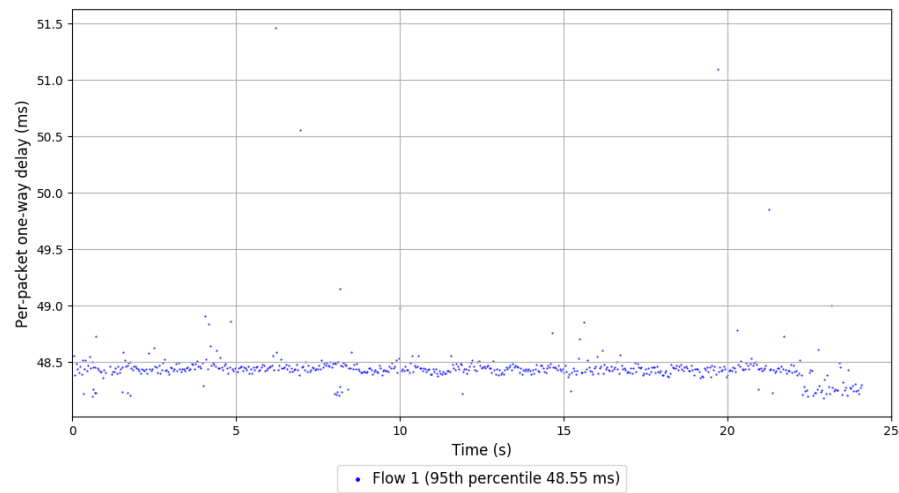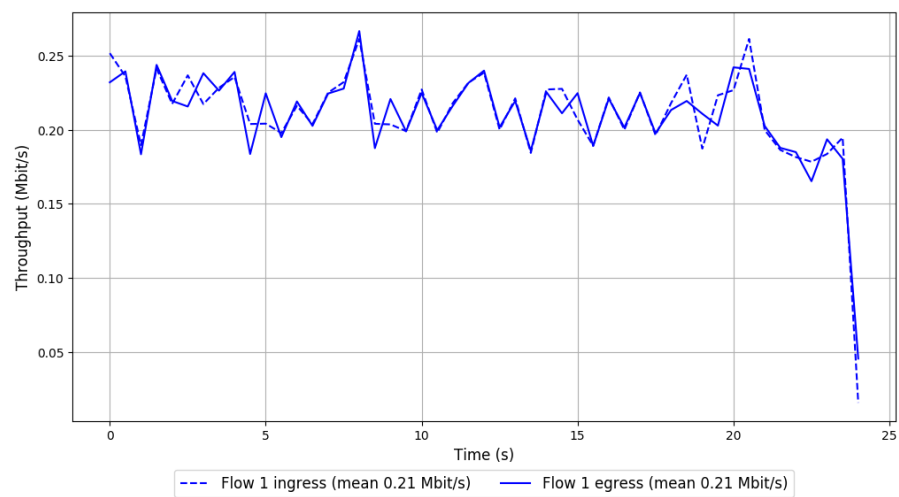
Run 8: Report of SCReAM — Data Link

```
Run 9: Statistics of SCReAM

Start at: Mon, 24 Jul 2017 22:56:11 +0000
End at: Mon, 24 Jul 2017 22:56:41 +0000
Local clock offset: 0.452 ms
Remote clock offset: -4.406 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:07 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.707 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.707 ms
Loss rate: 0.00%
```
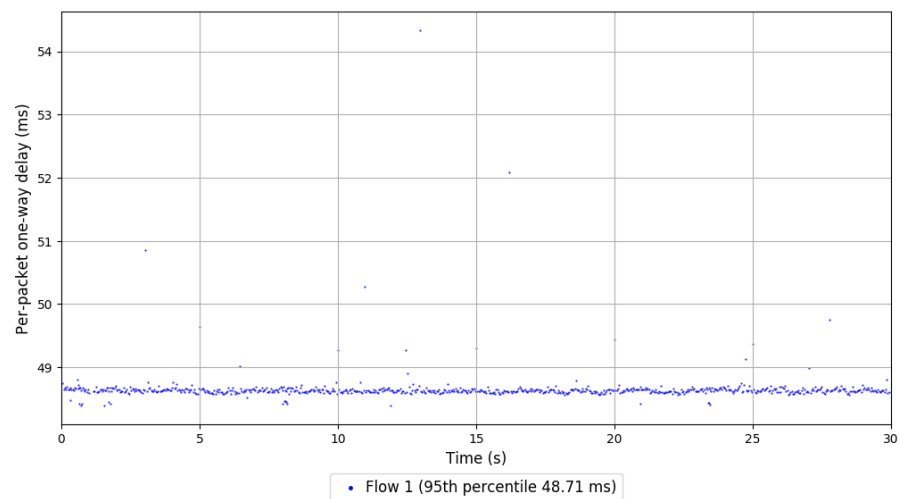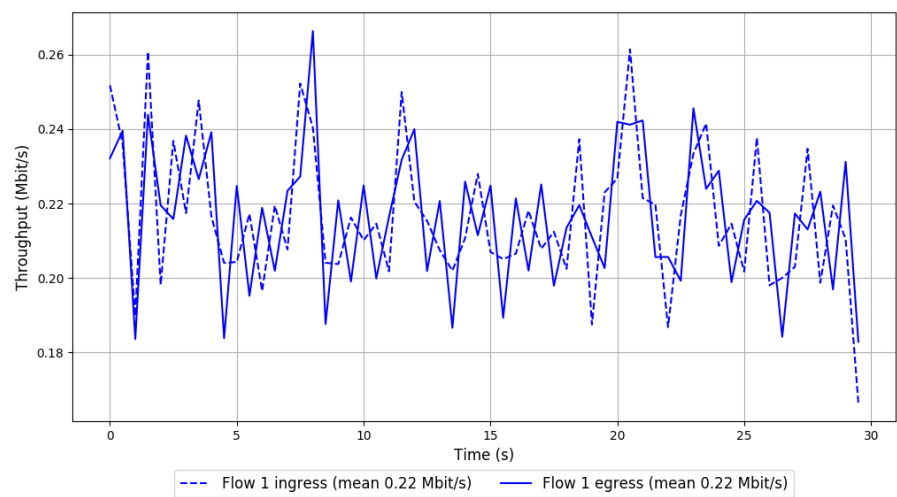
Run 9: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 48.71 ms)

```
Run 10: Statistics of SCReAM

Start at: Mon, 24 Jul 2017 23:17:53 +0000
End at: Mon, 24 Jul 2017 23:18:23 +0000
Local clock offset: 0.341 ms
Remote clock offset: -4.724 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:07 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.750 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.750 ms
Loss rate: 0.00%
```
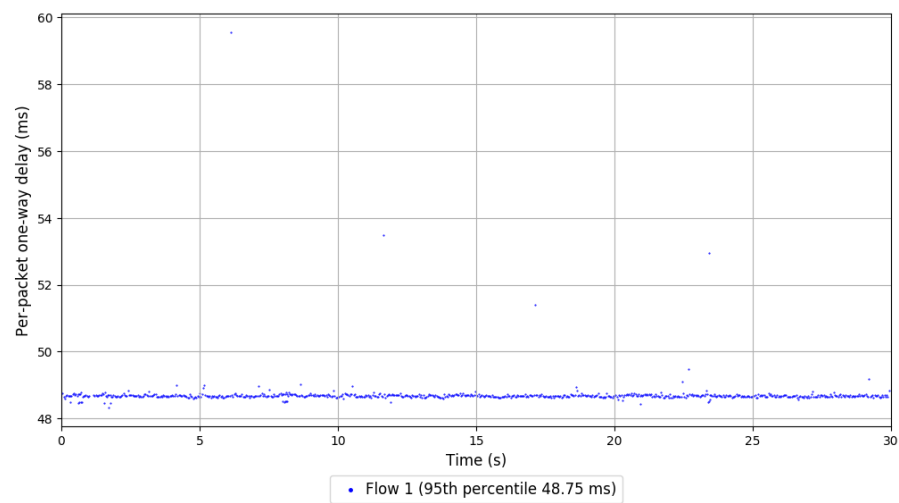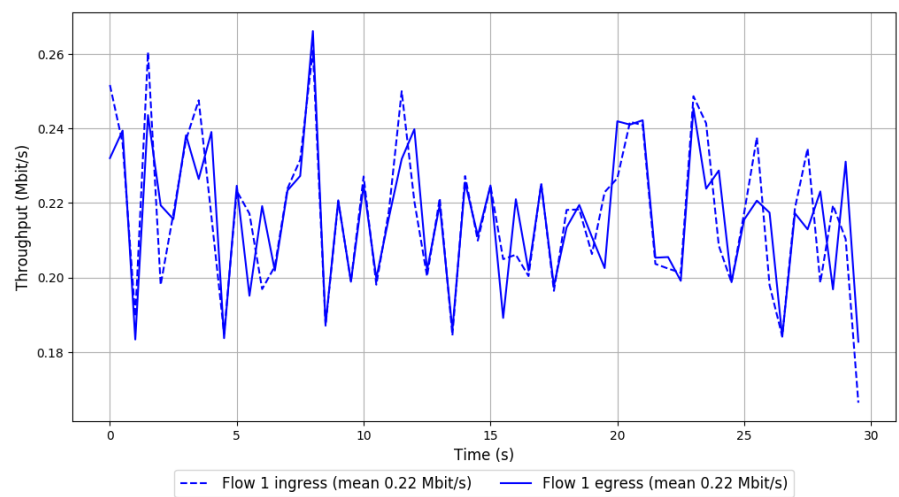
Run 10: Report of SCReAM — Data Link

```
Run 1: Statistics of Sprout

Start at: Mon, 24 Jul 2017 20:09:31 +0000
End at: Mon, 24 Jul 2017 20:10:01 +0000
Local clock offset: -0.116 ms
Remote clock offset: -0.246 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:09 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.27 Mbit/s
95th percentile per-packet one-way delay: 57.355 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.27 Mbit/s
95th percentile per-packet one-way delay: 57.355 ms
Loss rate: 0.00%
```
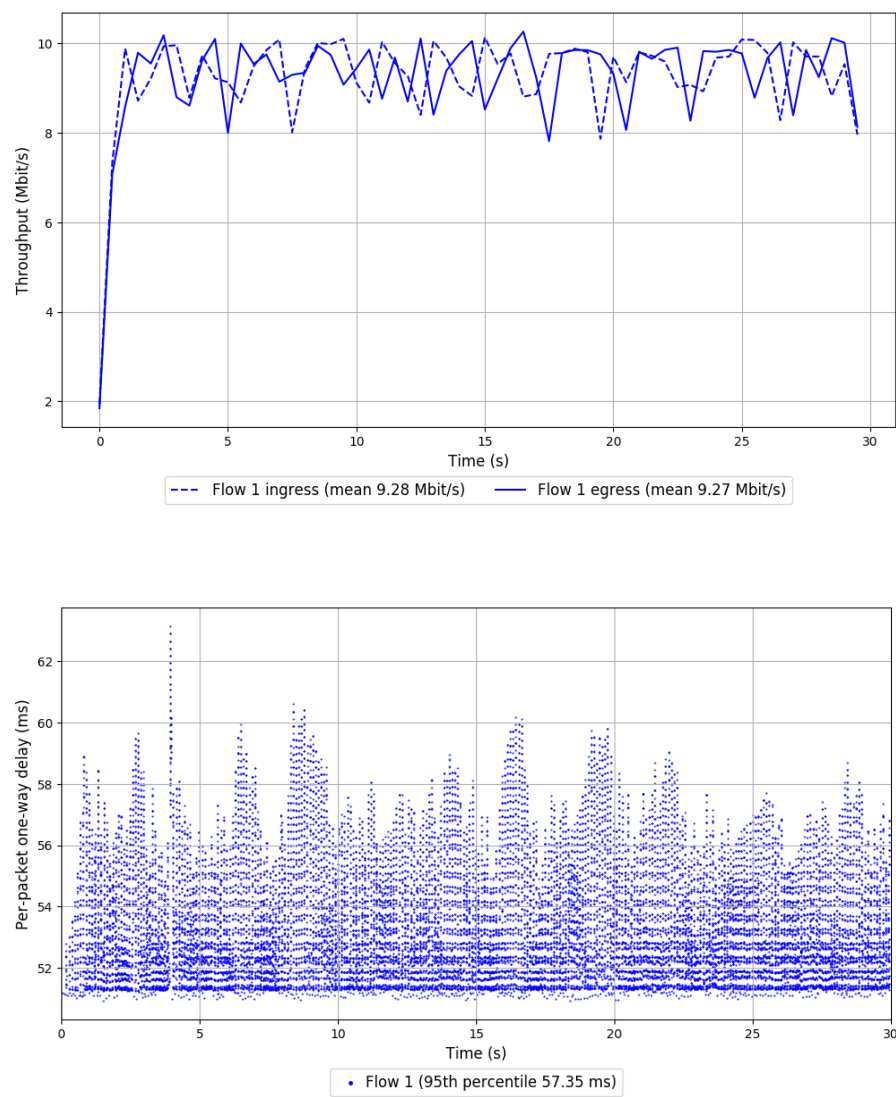
Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: Mon, 24 Jul 2017 20:30:24 +0000
End at: Mon, 24 Jul 2017 20:30:54 +0000
Local clock offset: 0.116 ms
Remote clock offset: -1.455 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:10 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.14 Mbit/s
95th percentile per-packet one-way delay: 56.811 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 9.14 Mbit/s
95th percentile per-packet one-way delay: 56.811 ms
Loss rate: 0.33%
```
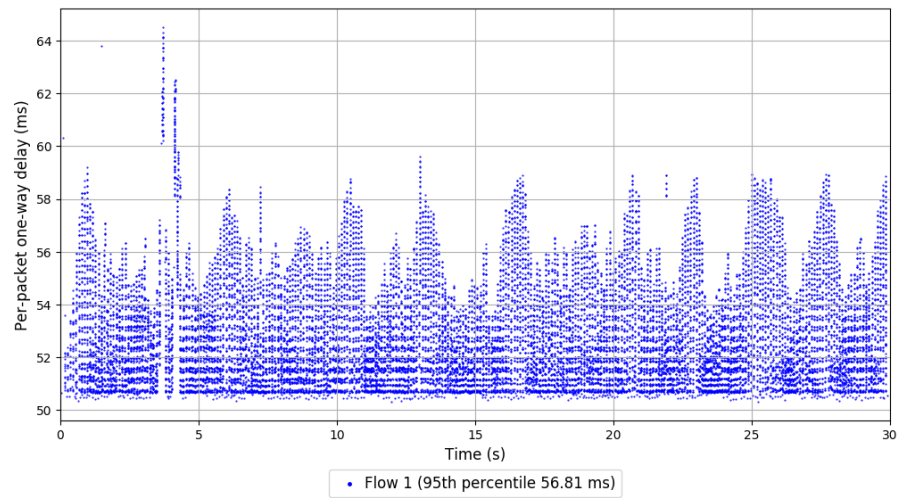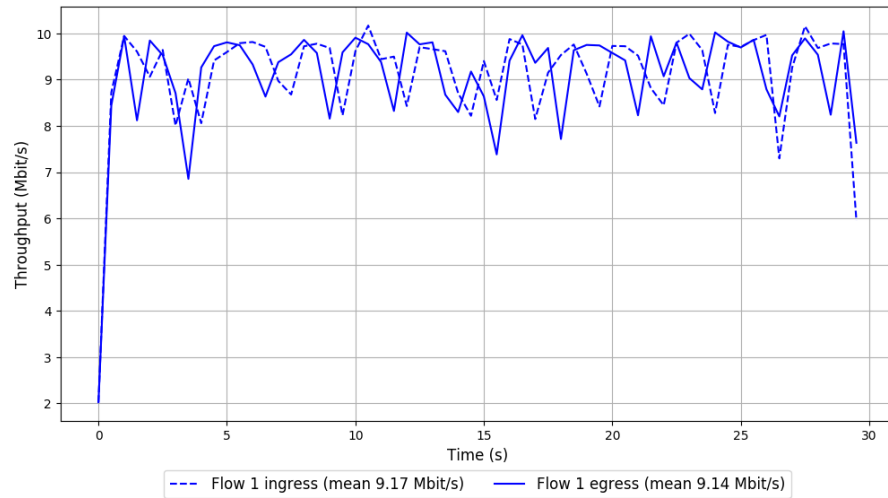
Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: Mon, 24 Jul 2017 20:50:53 +0000
End at: Mon, 24 Jul 2017 20:51:23 +0000
Local clock offset: 0.24 ms
Remote clock offset: -3.449 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:12 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.09 Mbit/s
95th percentile per-packet one-way delay: 55.315 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 9.09 Mbit/s
95th percentile per-packet one-way delay: 55.315 ms
Loss rate: 0.02%
```
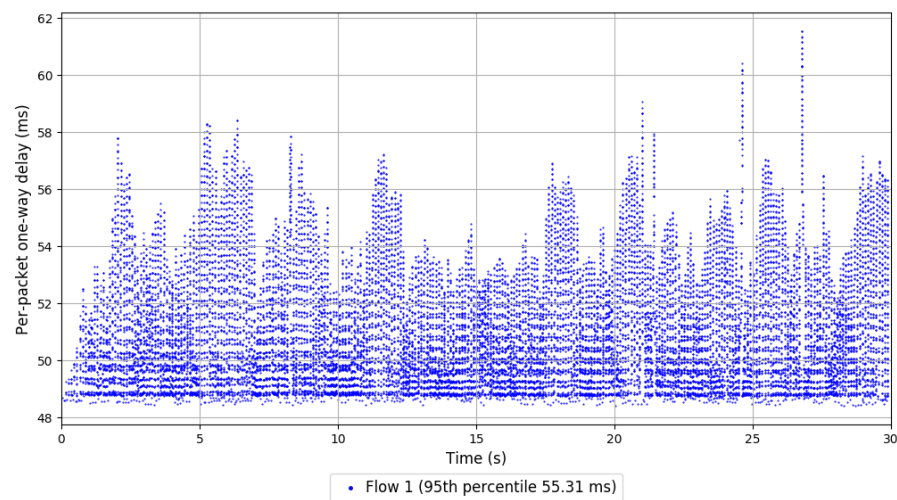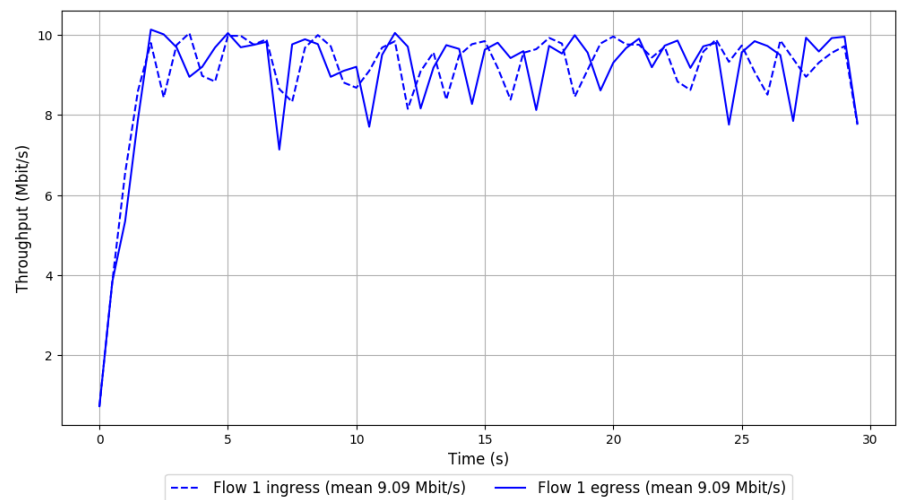
Run 3: Report of Sprout — Data Link

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```
Run 4: Statistics of Sprout

Start at: Mon, 24 Jul 2017 21:12:07 +0000
End at: Mon, 24 Jul 2017 21:12:37 +0000
Local clock offset: 0.35 ms
Remote clock offset: -3.257 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:12 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.16 Mbit/s
95th percentile per-packet one-way delay: 54.879 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.16 Mbit/s
95th percentile per-packet one-way delay: 54.879 ms
Loss rate: 0.00%
```
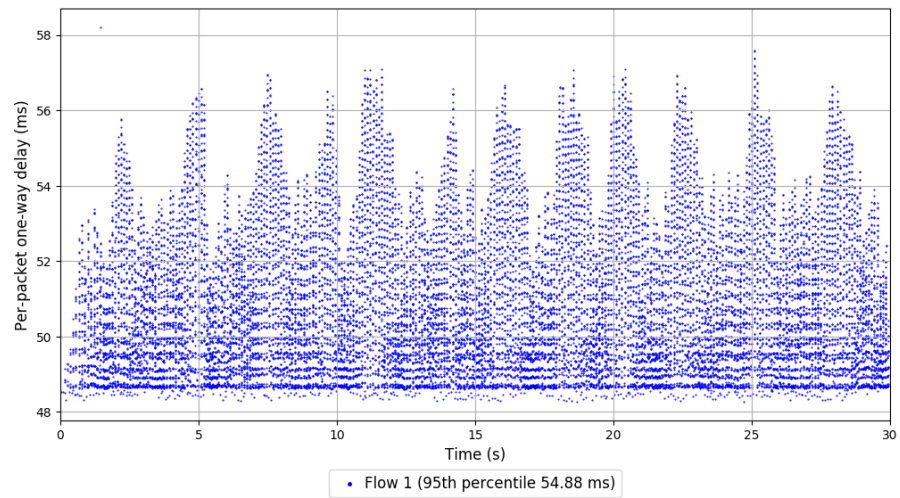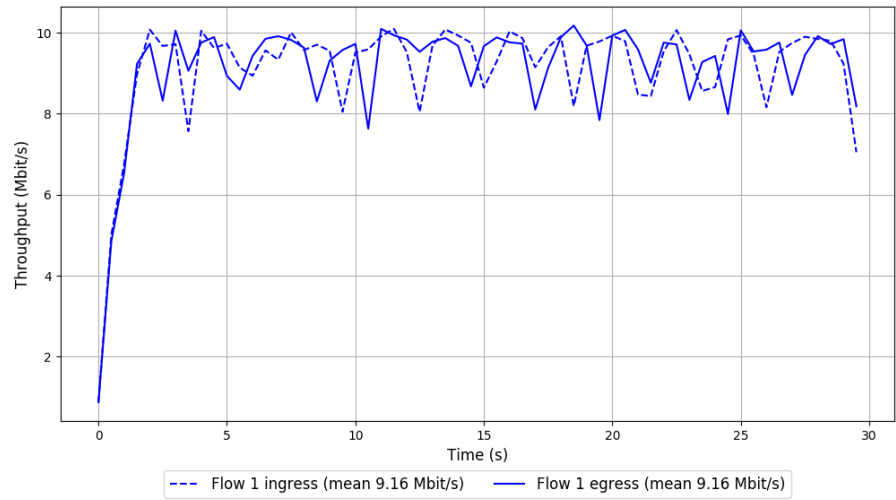
Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: Mon, 24 Jul 2017 21:33:59 +0000
End at: Mon, 24 Jul 2017 21:34:29 +0000
Local clock offset: 0.283 ms
Remote clock offset: -1.348 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:14 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 57.248 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 57.248 ms
Loss rate: 0.00%
```
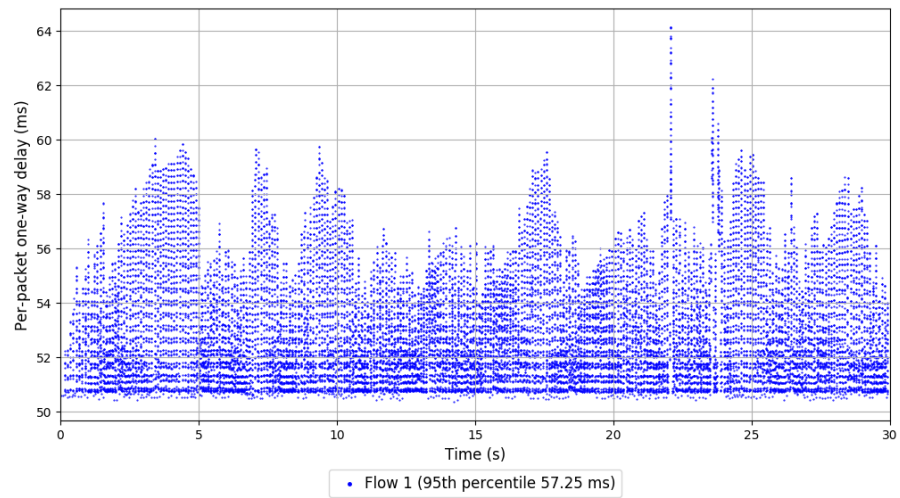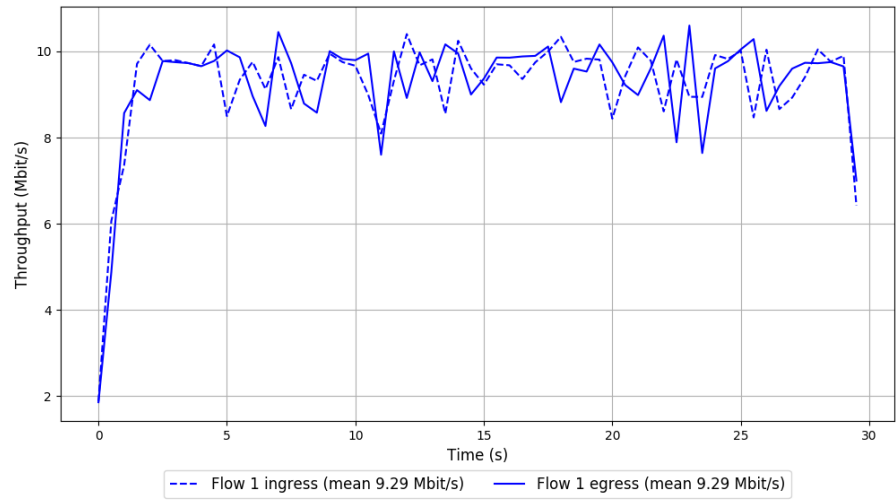
Run 5: Report of Sprout — Data Link

```
Run 6: Statistics of Sprout

Start at: Mon, 24 Jul 2017 21:54:38 +0000
End at: Mon, 24 Jul 2017 21:55:08 +0000
Local clock offset: 0.443 ms
Remote clock offset: -1.113 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:14 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.24 Mbit/s
95th percentile per-packet one-way delay: 56.868 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 9.24 Mbit/s
95th percentile per-packet one-way delay: 56.868 ms
Loss rate: 0.04%
```
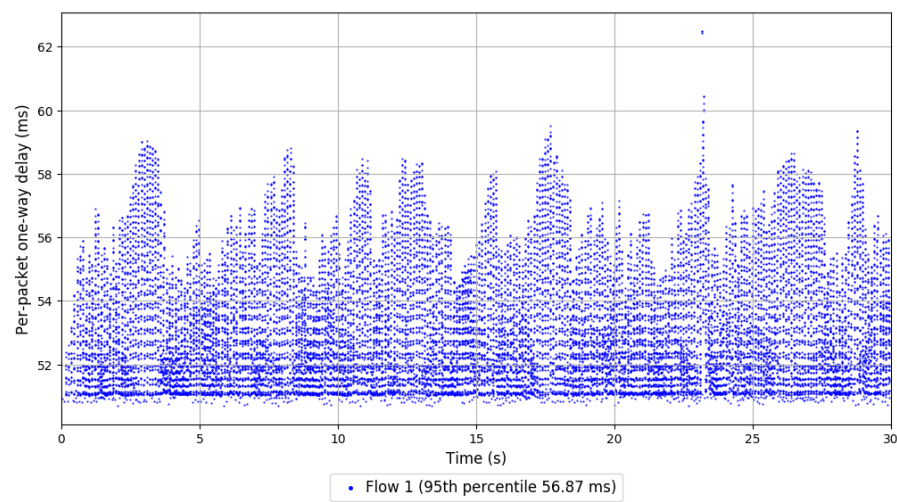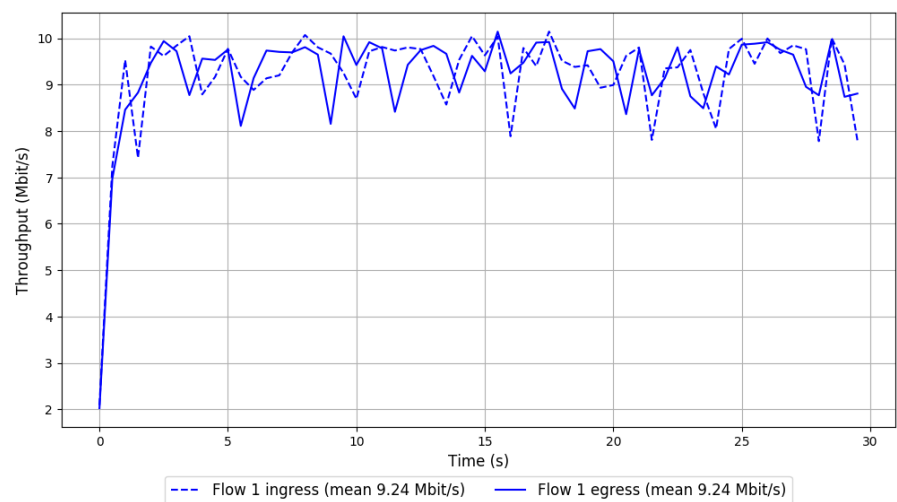
Run 6: Report of Sprout — Data Link

Flow 1 ingress (mean 9.24 Mbit/s) --- Flow 1 egress (mean 9.24 Mbit/s)

· Flow 1 (95th percentile 56.87 ms)

```
Run 7: Statistics of Sprout

Start at: Mon, 24 Jul 2017 22:15:05 +0000
End at: Mon, 24 Jul 2017 22:15:35 +0000
Local clock offset: 0.467 ms
Remote clock offset: -1.9 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.23 Mbit/s
95th percentile per-packet one-way delay: 56.492 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 9.23 Mbit/s
95th percentile per-packet one-way delay: 56.492 ms
Loss rate: 0.12%
```
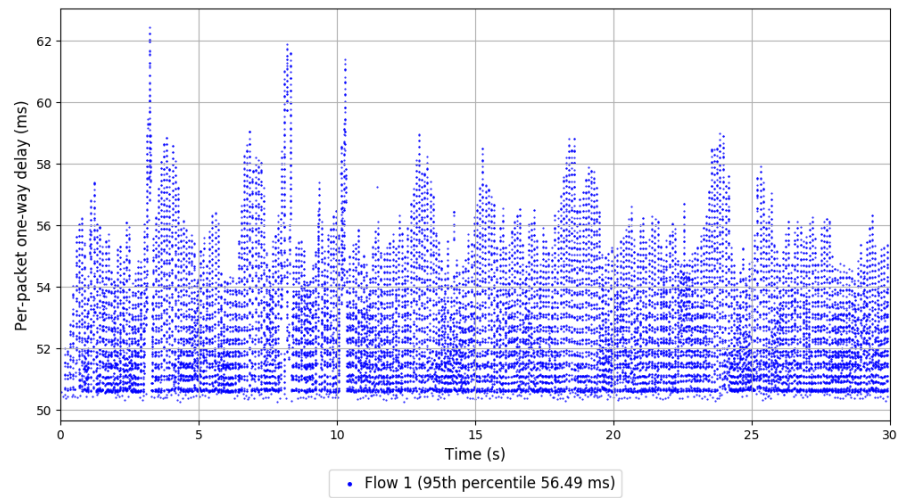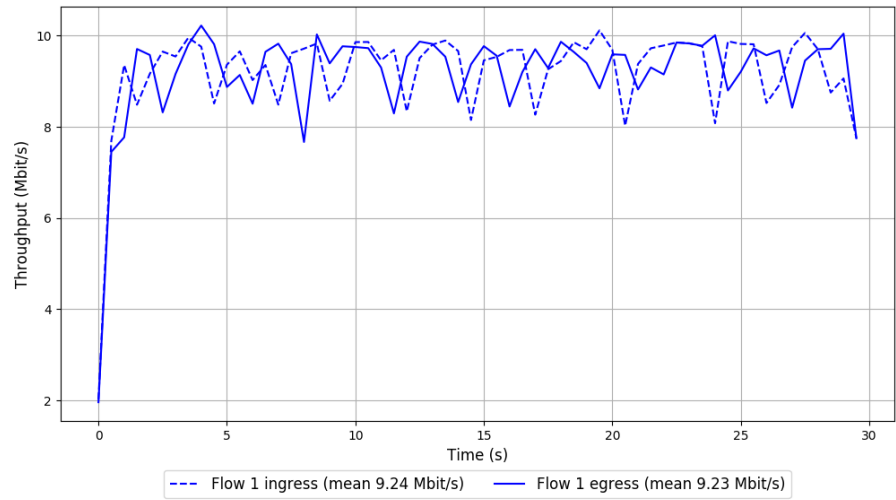
Run 7: Report of Sprout — Data Link

```
Run 8: Statistics of Sprout

Start at: Mon, 24 Jul 2017 22:36:54 +0000
End at: Mon, 24 Jul 2017 22:37:24 +0000
Local clock offset: 0.369 ms
Remote clock offset: -1.591 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:17 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.25 Mbit/s
95th percentile per-packet one-way delay: 56.900 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.25 Mbit/s
95th percentile per-packet one-way delay: 56.900 ms
Loss rate: 0.00%
```
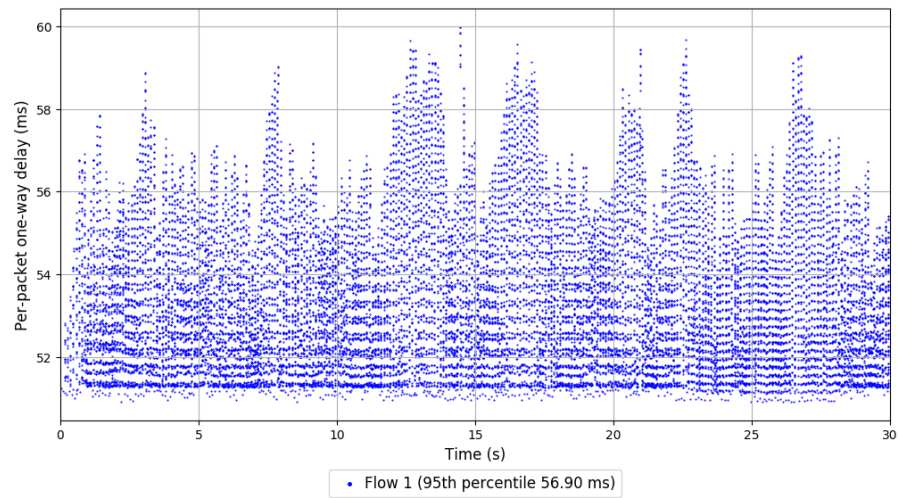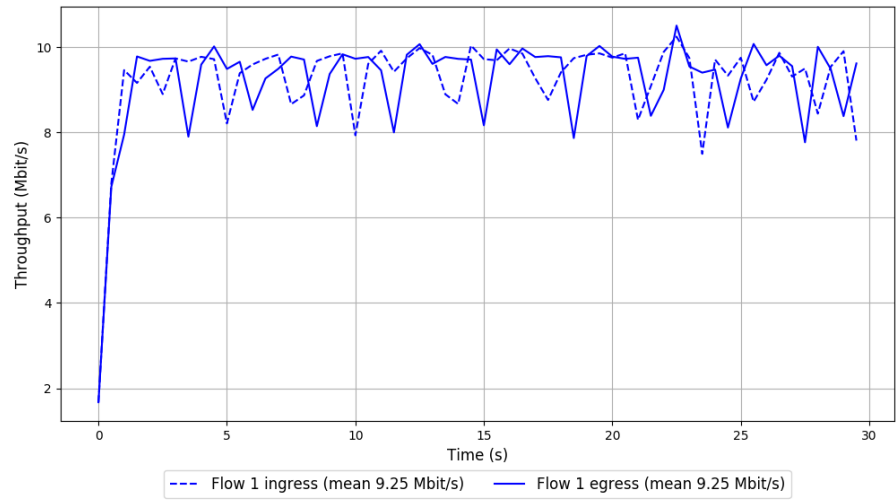
Run 8: Report of Sprout — Data Link

Flow 1 ingress (mean 9.25 Mbit/s)   Flow 1 egress (mean 9.25 Mbit/s)

Flow 1 (95th percentile 56.90 ms)

```
Run 9: Statistics of Sprout

Start at: Mon, 24 Jul 2017 23:00:17 +0000
End at: Mon, 24 Jul 2017 23:00:47 +0000
Local clock offset: 0.45 ms
Remote clock offset: -4.454 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:18 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.33 Mbit/s
95th percentile per-packet one-way delay: 55.020 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.33 Mbit/s
95th percentile per-packet one-way delay: 55.020 ms
Loss rate: 0.00%
```
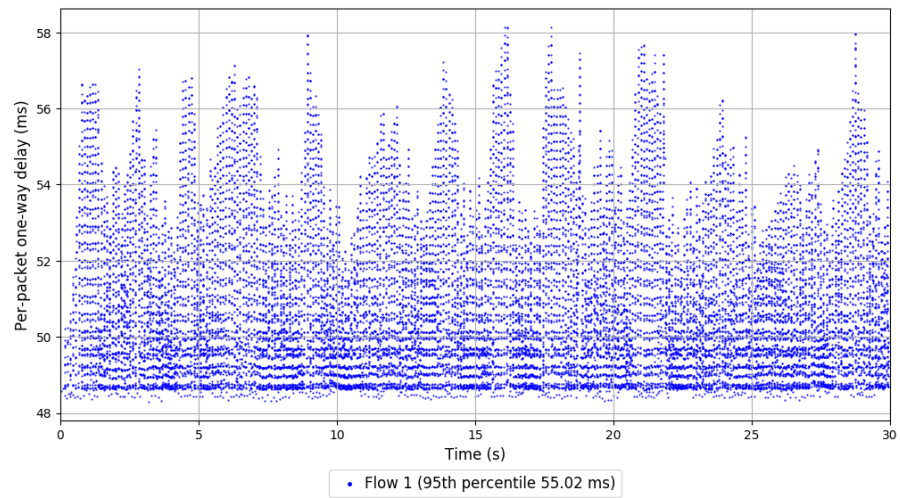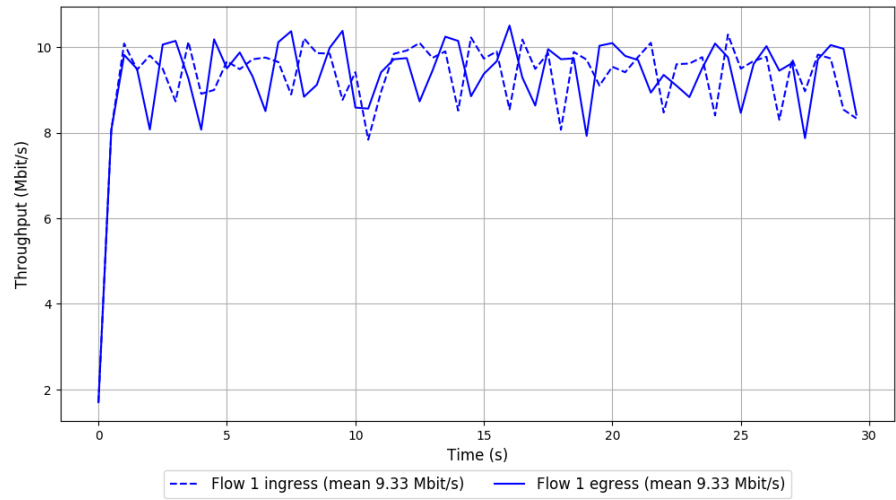
Run 9: Report of Sprout — Data Link

Flow 1 ingress (mean 9.33 Mbit/s) --- Flow 1 egress (mean 9.33 Mbit/s)

• Flow 1 (95th percentile 55.02 ms)

```
Run 10: Statistics of Sprout

Start at: Mon, 24 Jul 2017 23:22:00 +0000
End at: Mon, 24 Jul 2017 23:22:30 +0000
Local clock offset: 0.221 ms
Remote clock offset: -4.858 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:19 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 54.084 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 54.084 ms
Loss rate: 0.09%
```
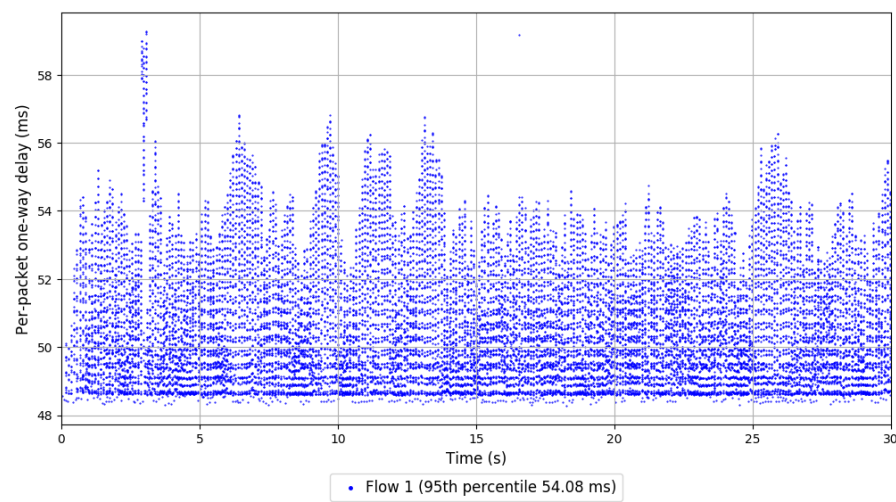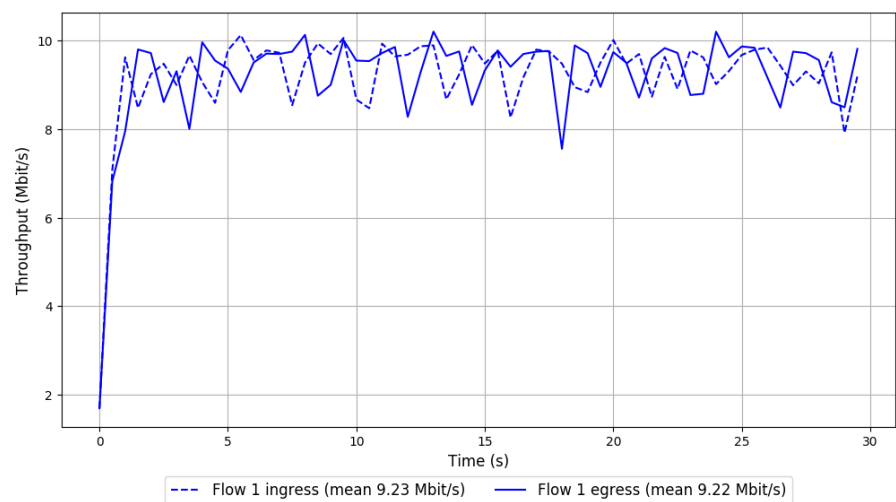
Run 10: Report of Sprout — Data Link

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

Start at: Mon, 24 Jul 2017 20:16:17 +0000
End at: Mon, 24 Jul 2017 20:16:47 +0000
Local clock offset: 0.022 ms
Remote clock offset: -0.695 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:37 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.91 Mbit/s
95th percentile per-packet one-way delay: 68.720 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 80.91 Mbit/s
95th percentile per-packet one-way delay: 68.720 ms
Loss rate: 0.15%
```
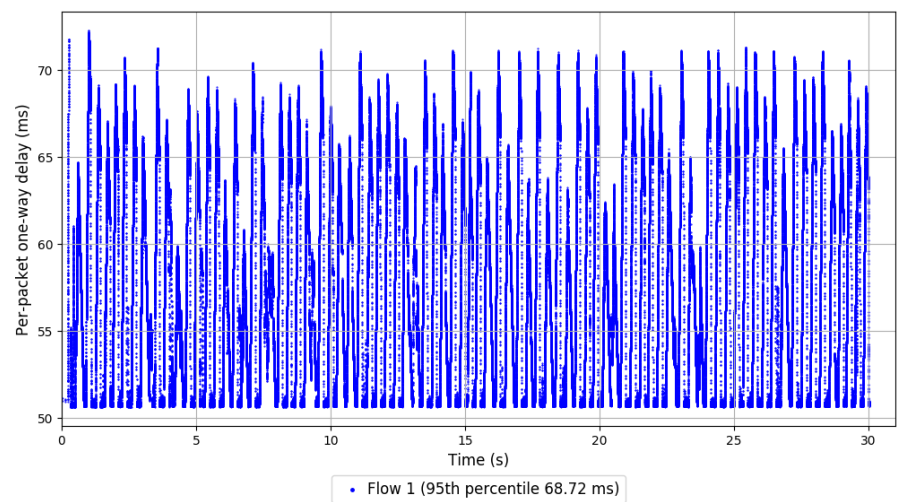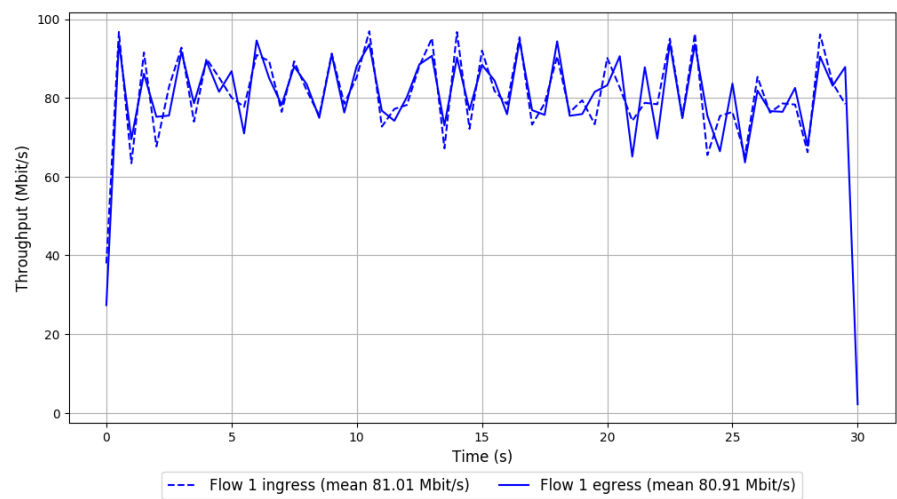
Run 1: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 81.01 Mbit/s)   Flow 1 egress (mean 80.91 Mbit/s)

Flow 1 (95th percentile 68.72 ms)

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

Start at: Mon, 24 Jul 2017 20:37:09 +0000
End at: Mon, 24 Jul 2017 20:37:39 +0000
Local clock offset: 0.11 ms
Remote clock offset: -1.649 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:37 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.85 Mbit/s
95th percentile per-packet one-way delay: 69.519 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 76.85 Mbit/s
95th percentile per-packet one-way delay: 69.519 ms
Loss rate: 0.05%
```
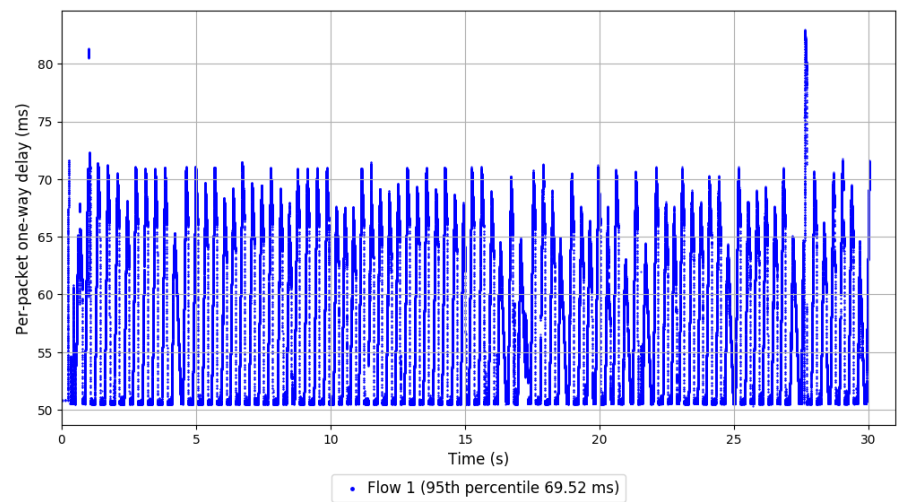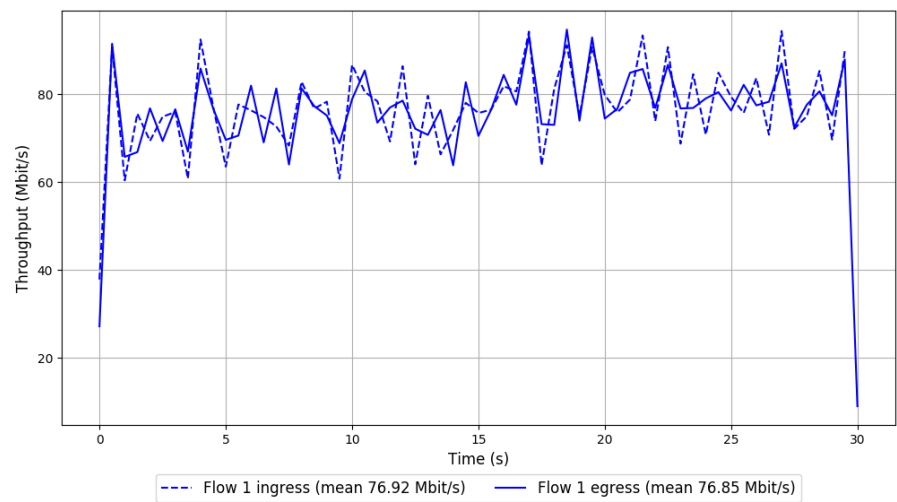
Run 2: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 76.92 Mbit/s) — Flow 1 egress (mean 76.85 Mbit/s)

• Flow 1 (95th percentile 69.52 ms)

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

Start at: Mon, 24 Jul 2017 20:57:39 +0000
End at: Mon, 24 Jul 2017 20:58:09 +0000
Local clock offset: 0.263 ms
Remote clock offset: -3.424 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:57 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.43 Mbit/s
95th percentile per-packet one-way delay: 66.511 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 81.43 Mbit/s
95th percentile per-packet one-way delay: 66.511 ms
Loss rate: 0.02%
```
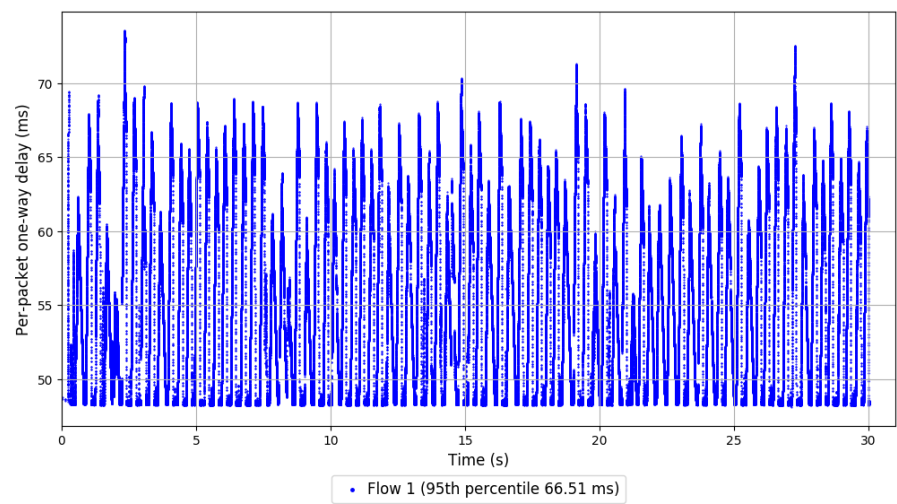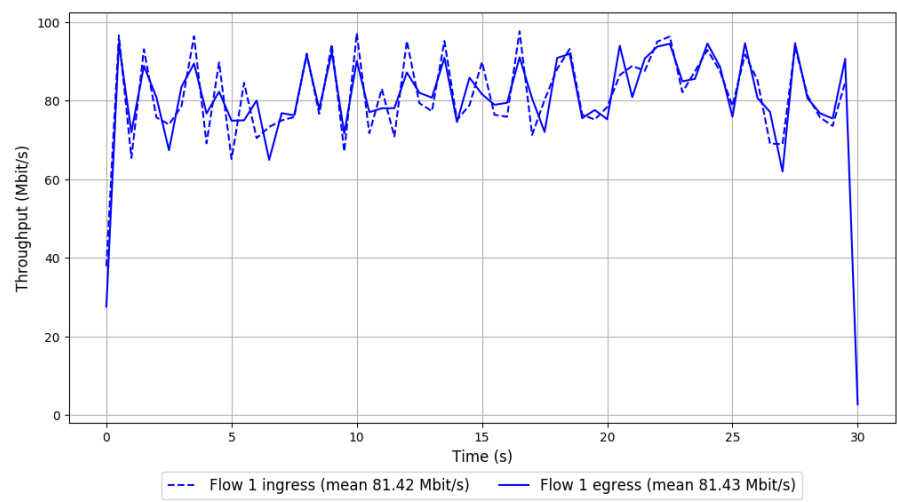
Run 3: Report of TaoVA-100x — Data Link

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

Start at: Mon, 24 Jul 2017 21:19:29 +0000
End at: Mon, 24 Jul 2017 21:19:59 +0000
Local clock offset: 0.343 ms
Remote clock offset: -1.251 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:31:57 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.87 Mbit/s
95th percentile per-packet one-way delay: 69.216 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 79.87 Mbit/s
95th percentile per-packet one-way delay: 69.216 ms
Loss rate: 0.25%
```
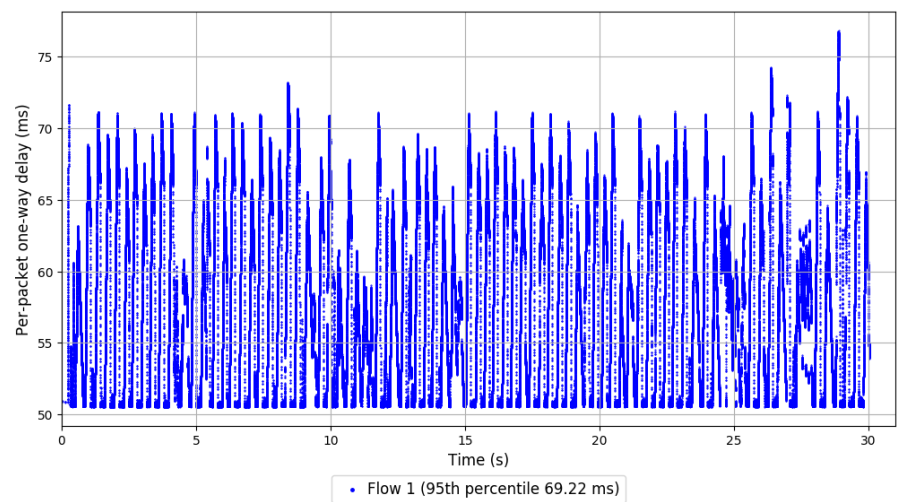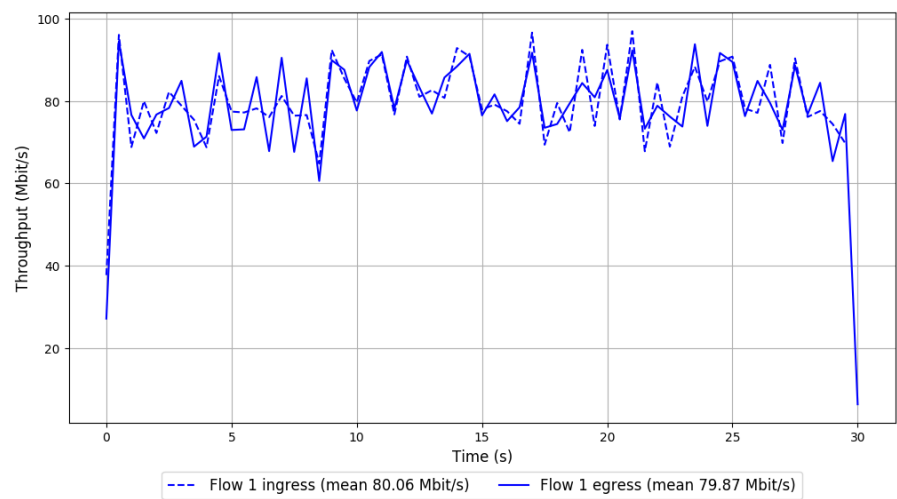
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 80.06 Mbit/s)   Flow 1 egress (mean 79.87 Mbit/s)

Flow 1 (95th percentile 69.22 ms)

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

Start at: Mon, 24 Jul 2017 21:40:42 +0000
End at: Mon, 24 Jul 2017 21:41:12 +0000
Local clock offset: 0.421 ms
Remote clock offset: -1.316 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:32:15 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.40 Mbit/s
95th percentile per-packet one-way delay: 69.014 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 77.40 Mbit/s
95th percentile per-packet one-way delay: 69.014 ms
Loss rate: 0.04%
```
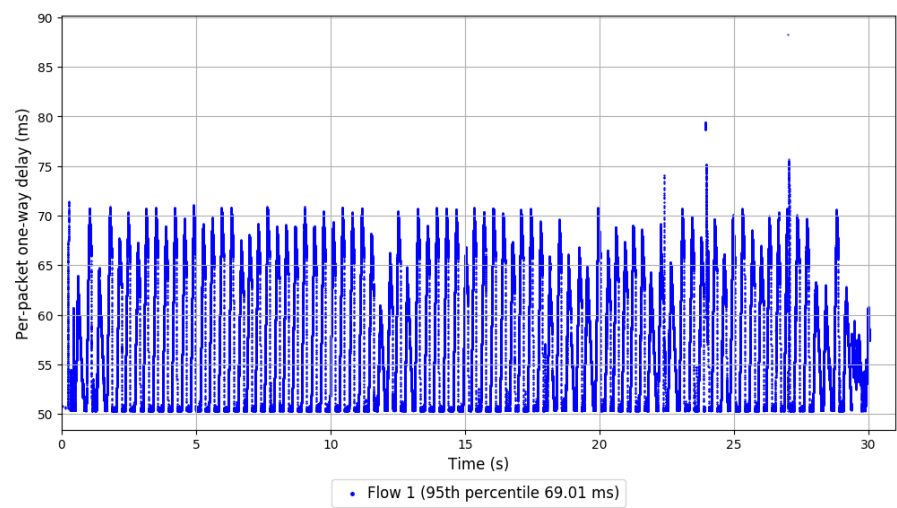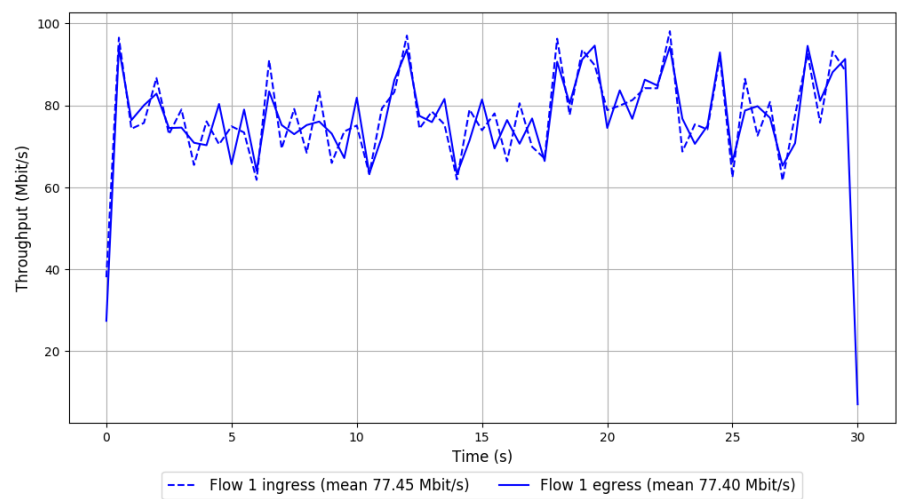
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 77.45 Mbit/s)   Flow 1 egress (mean 77.40 Mbit/s)

• Flow 1 (95th percentile 69.01 ms)

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

Start at: Mon, 24 Jul 2017 22:01:15 +0000
End at: Mon, 24 Jul 2017 22:01:45 +0000
Local clock offset: 0.439 ms
Remote clock offset: -3.76 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:32:15 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.49 Mbit/s
95th percentile per-packet one-way delay: 67.247 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 76.49 Mbit/s
95th percentile per-packet one-way delay: 67.247 ms
Loss rate: 0.07%
```
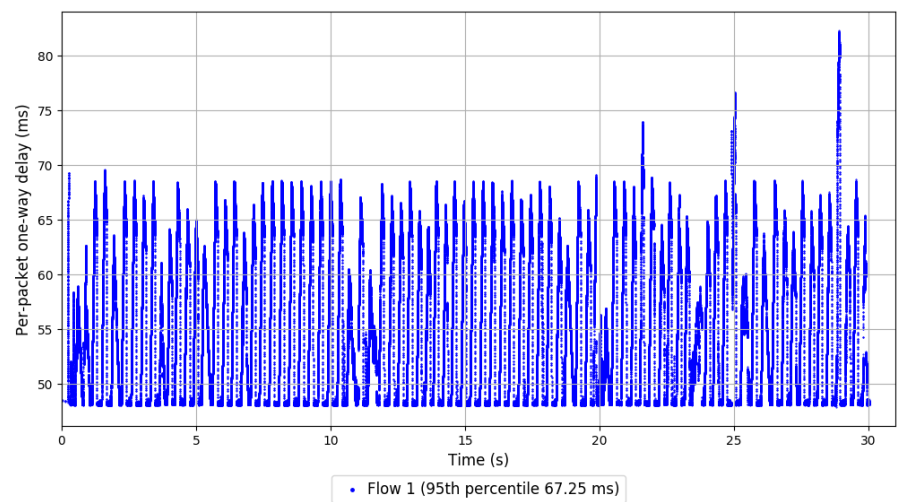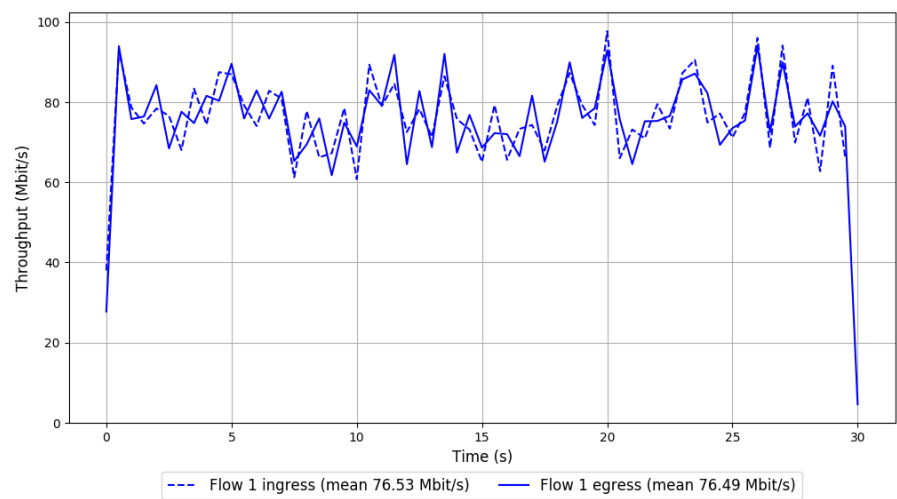
Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 76.53 Mbit/s) — — — Flow 1 egress (mean 76.49 Mbit/s)

Flow 1 (95th percentile 67.25 ms)

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

Start at: Mon, 24 Jul 2017 22:22:06 +0000
End at: Mon, 24 Jul 2017 22:22:36 +0000
Local clock offset: 0.423 ms
Remote clock offset: -3.981 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:32:34 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.30 Mbit/s
95th percentile per-packet one-way delay: 66.519 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 81.30 Mbit/s
95th percentile per-packet one-way delay: 66.519 ms
Loss rate: 0.12%
```
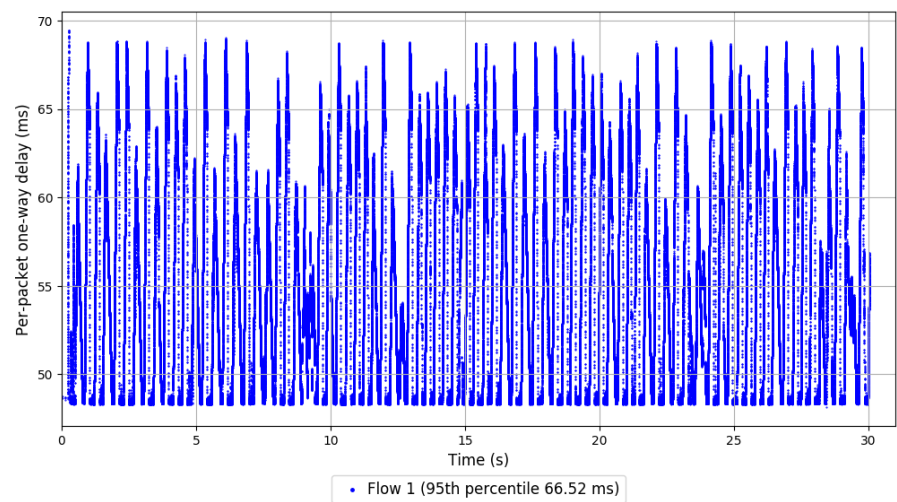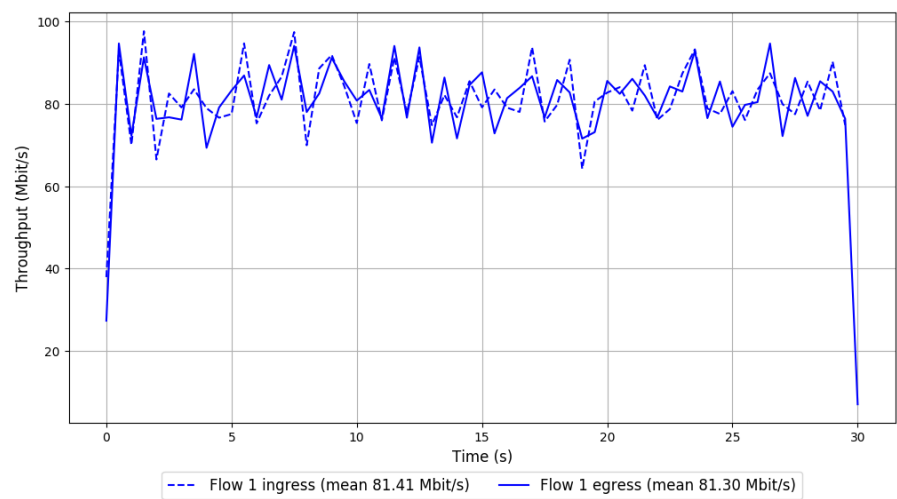
Run 7: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 81.41 Mbit/s)   Flow 1 egress (mean 81.30 Mbit/s)

Flow 1 (95th percentile 66.52 ms)

237

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

Start at: Mon, 24 Jul 2017 22:44:17 +0000
End at: Mon, 24 Jul 2017 22:44:47 +0000
Local clock offset: 0.34 ms
Remote clock offset: -2.289 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:32:35 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.25 Mbit/s
95th percentile per-packet one-way delay: 68.736 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 79.25 Mbit/s
95th percentile per-packet one-way delay: 68.736 ms
Loss rate: 0.10%
```
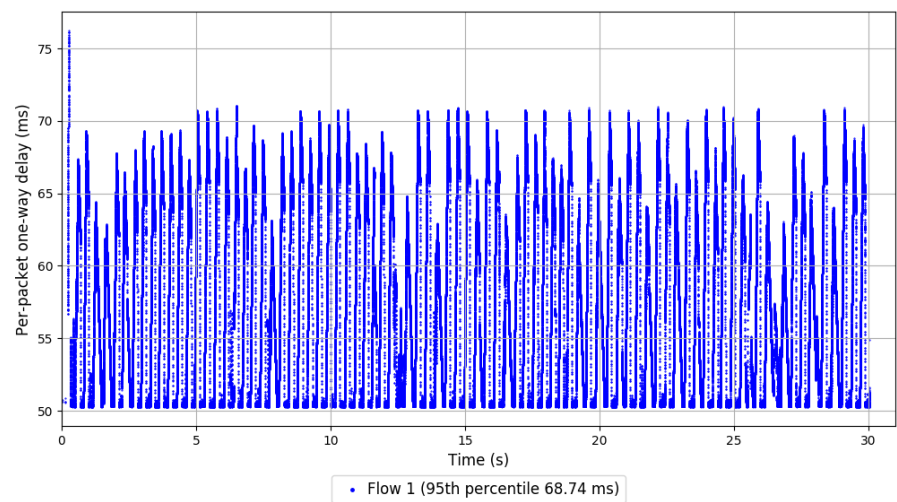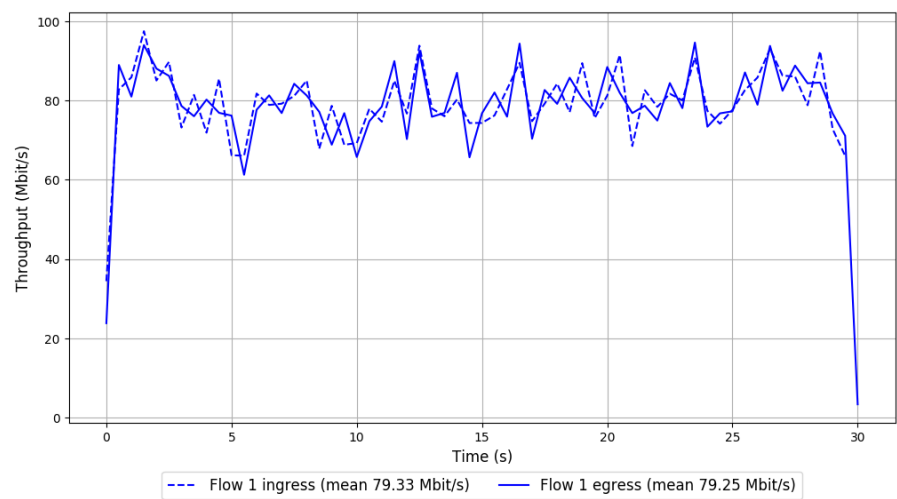
Run 8: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 79.33 Mbit/s)   Flow 1 egress (mean 79.25 Mbit/s)

Flow 1 (95th percentile 68.74 ms)

239

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

Start at: Mon, 24 Jul 2017 23:07:43 +0000
End at: Mon, 24 Jul 2017 23:08:13 +0000
Local clock offset: 0.451 ms
Remote clock offset: -2.101 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:32:53 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.73 Mbit/s
95th percentile per-packet one-way delay: 69.543 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 76.73 Mbit/s
95th percentile per-packet one-way delay: 69.543 ms
Loss rate: 0.07%
```
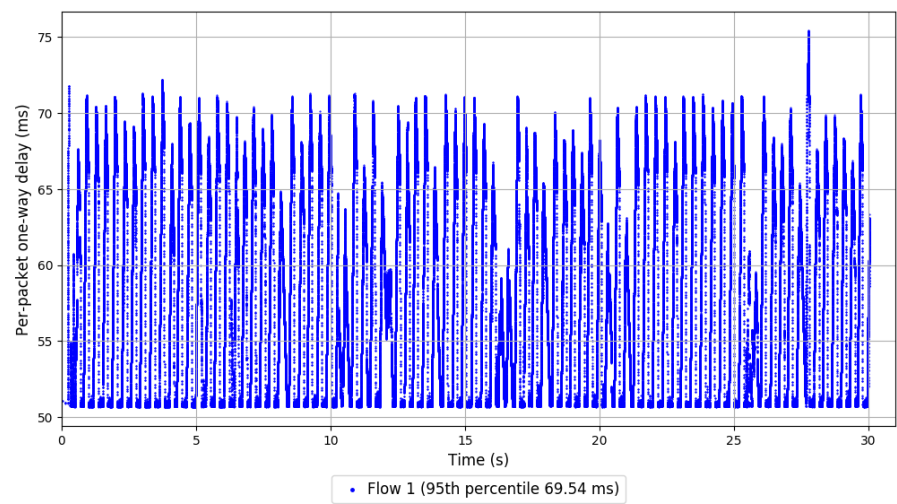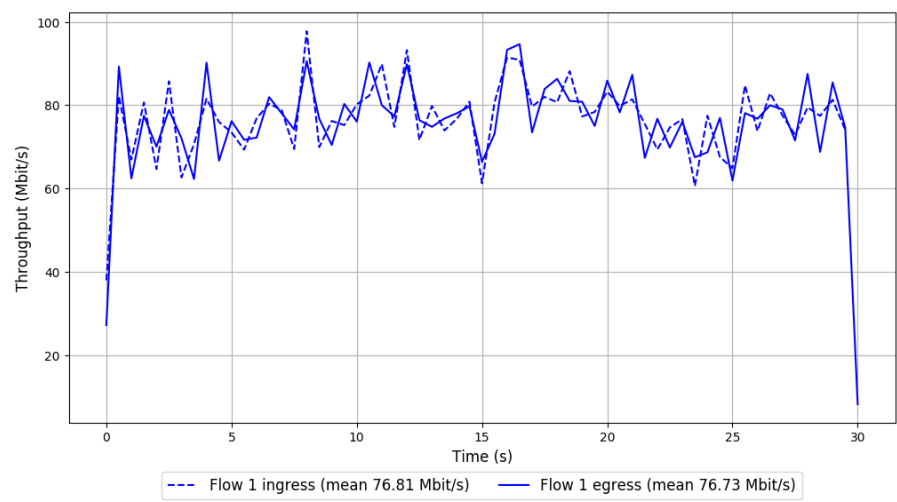
Run 9: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 76.81 Mbit/s)   Flow 1 egress (mean 76.73 Mbit/s)

Flow 1 (95th percentile 69.54 ms)

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

Start at: Mon, 24 Jul 2017 23:28:47 +0000
End at: Mon, 24 Jul 2017 23:29:17 +0000
Local clock offset: 0.159 ms
Remote clock offset: -4.821 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:32:54 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.63 Mbit/s
95th percentile per-packet one-way delay: 66.780 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 79.63 Mbit/s
95th percentile per-packet one-way delay: 66.780 ms
Loss rate: 0.30%
```
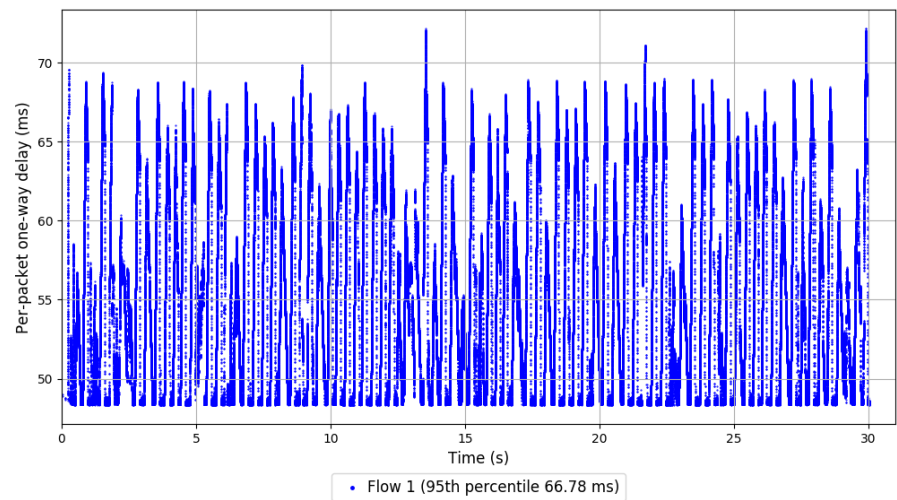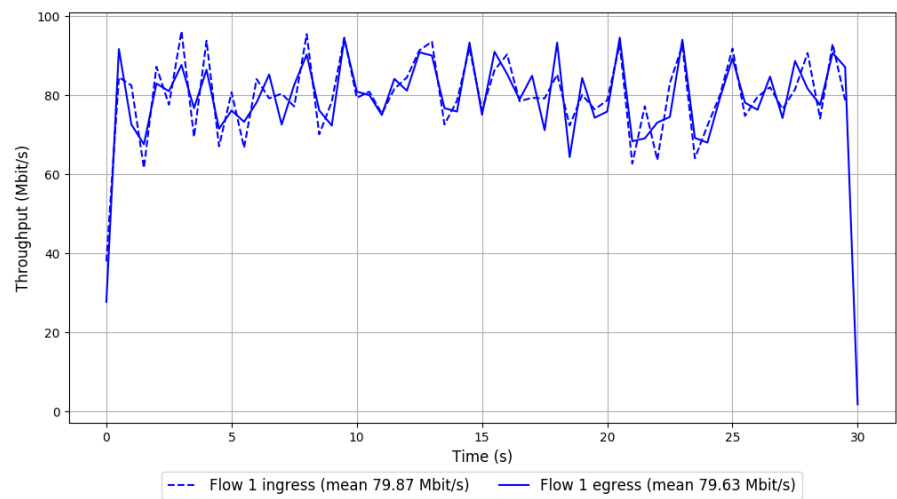
Run 10: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 79.87 Mbit/s)   Flow 1 egress (mean 79.63 Mbit/s)

Flow 1 (95th percentile 66.78 ms)

```
Run 1: Statistics of TCP Vegas

Start at: Mon, 24 Jul 2017 20:08:14 +0000
End at: Mon, 24 Jul 2017 20:08:44 +0000
Local clock offset: -0.114 ms
Remote clock offset: -0.708 ms
```
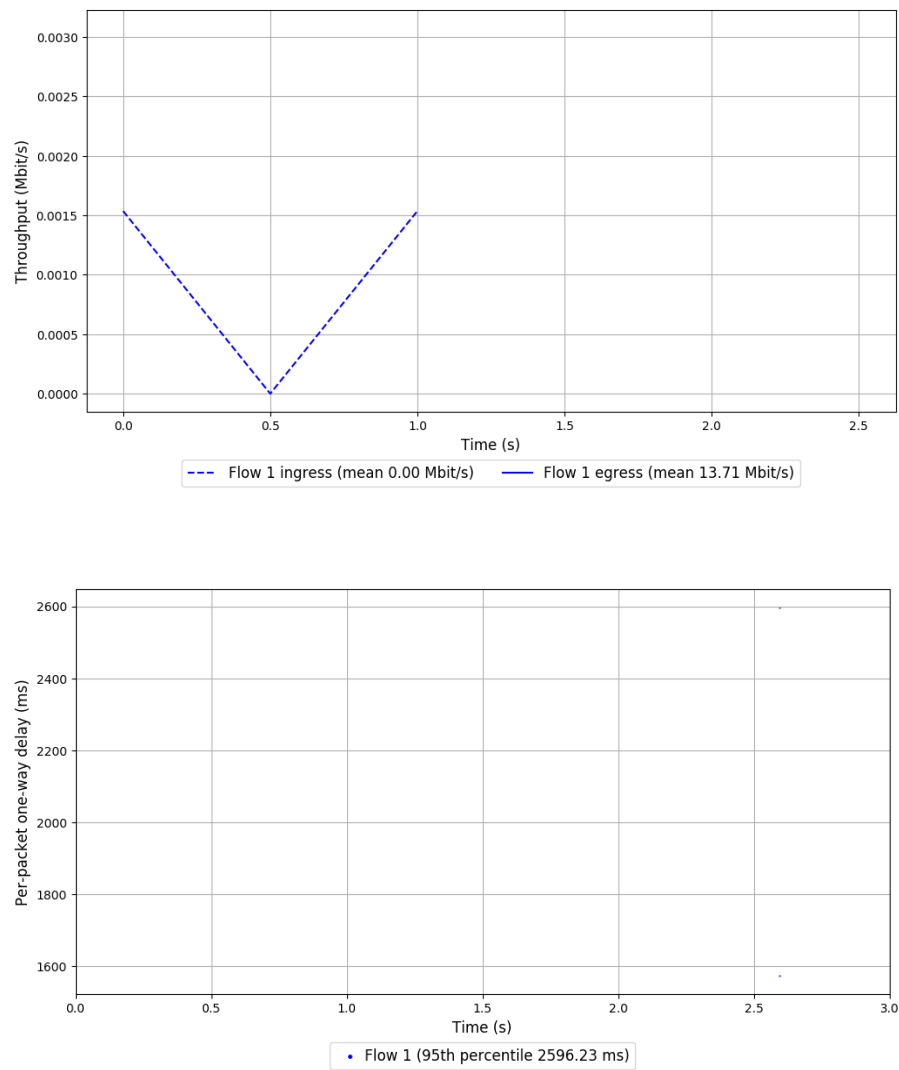
Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: Mon, 24 Jul 2017 20:29:02 +0000
End at: Mon, 24 Jul 2017 20:29:32 +0000
Local clock offset: -0.008 ms
Remote clock offset: -1.11 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:32:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.46 Mbit/s
95th percentile per-packet one-way delay: 52.076 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 44.46 Mbit/s
95th percentile per-packet one-way delay: 52.076 ms
Loss rate: 0.60%
```
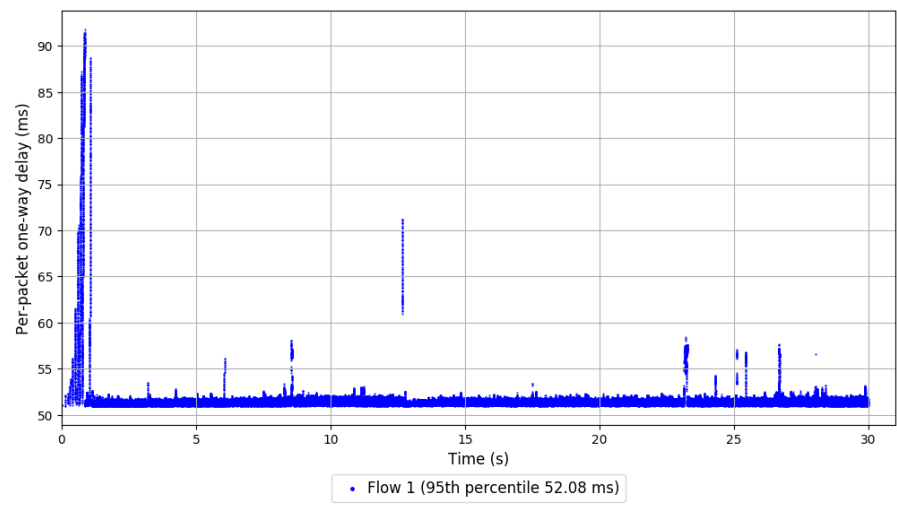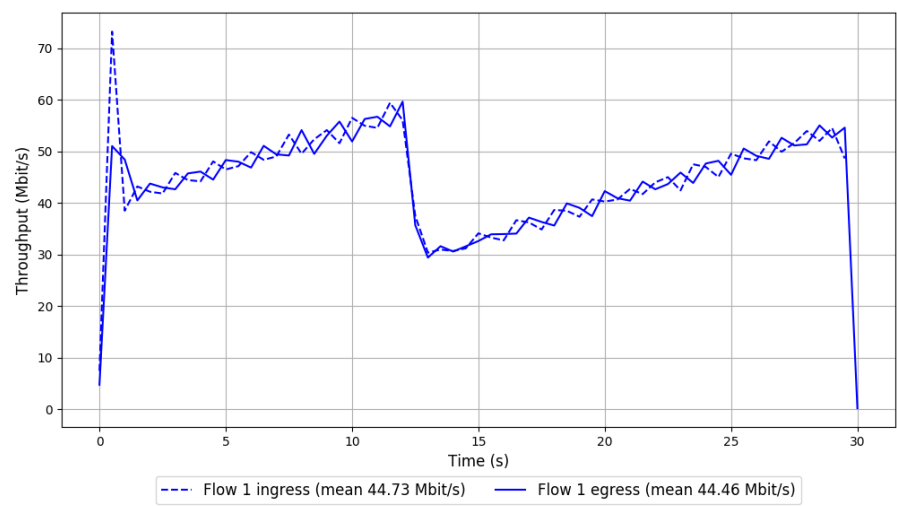
Run 2: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 44.73 Mbit/s) ----- Flow 1 egress (mean 44.46 Mbit/s) ——

Flow 1 (95th percentile 52.08 ms)

```
Run 3: Statistics of TCP Vegas

Start at: Mon, 24 Jul 2017 20:49:30 +0000
End at: Mon, 24 Jul 2017 20:50:00 +0000
Local clock offset: 0.247 ms
Remote clock offset: -1.508 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:33:03 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.95 Mbit/s
95th percentile per-packet one-way delay: 79.067 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 57.95 Mbit/s
95th percentile per-packet one-way delay: 79.067 ms
Loss rate: 1.12%
```
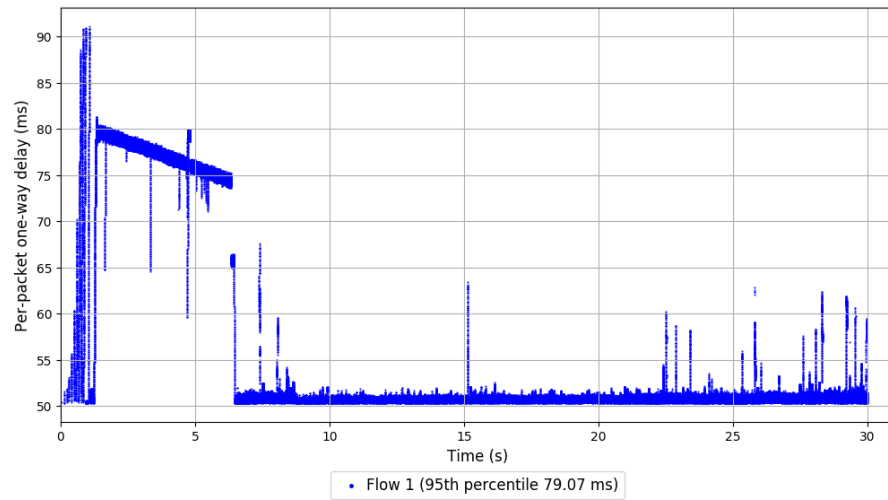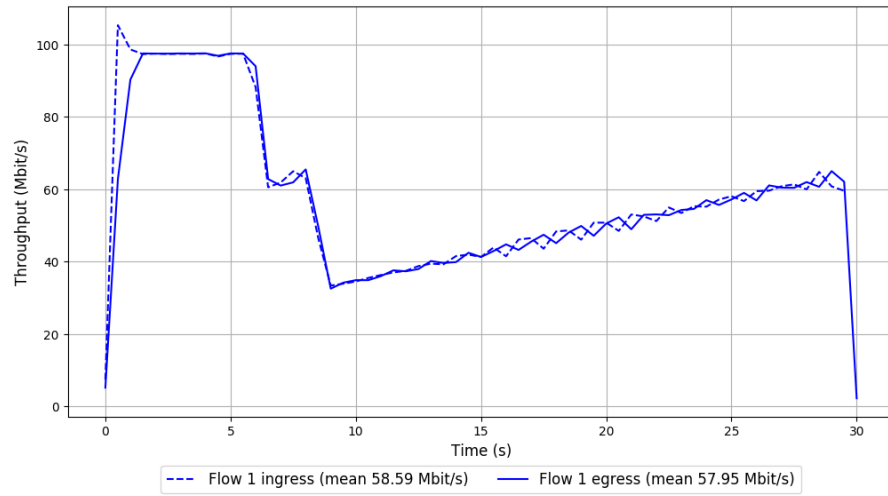
Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 58.59 Mbit/s)   Flow 1 egress (mean 57.95 Mbit/s)

Flow 1 (95th percentile 79.07 ms)
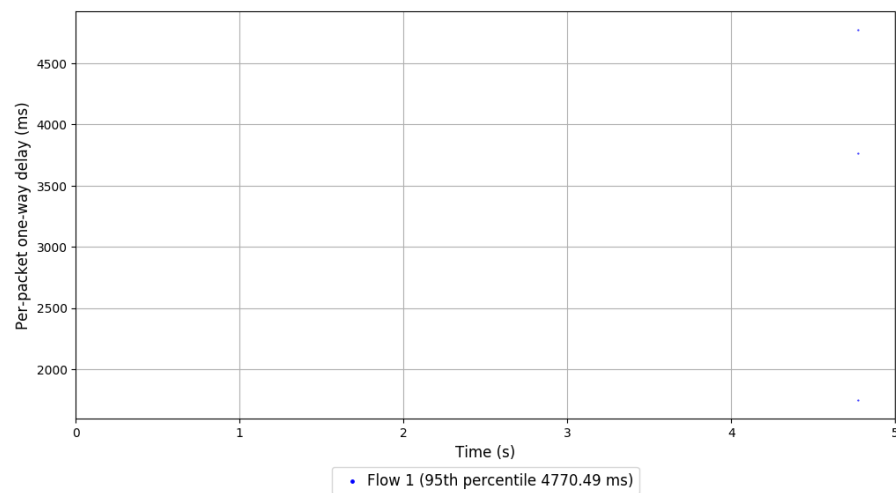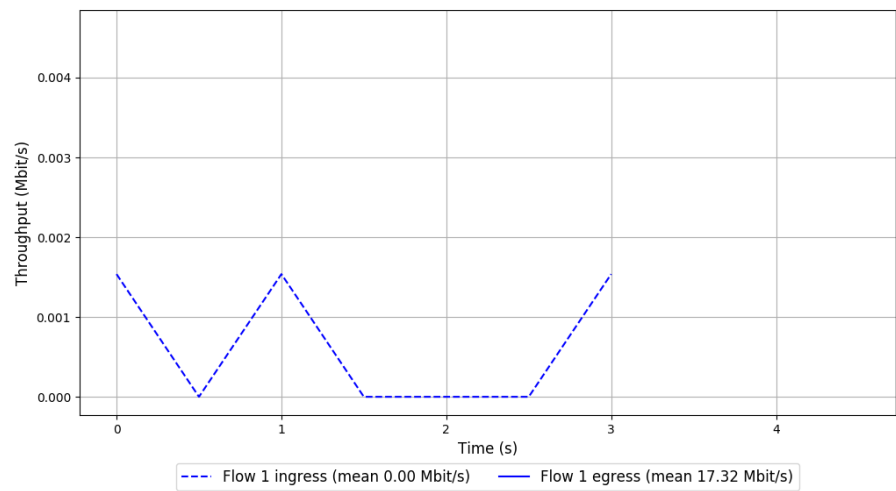
Run 4: Statistics of TCP Vegas

Start at: Mon, 24 Jul 2017 21:10:50 +0000
End at: Mon, 24 Jul 2017 21:11:20 +0000
Local clock offset: 0.276 ms
Remote clock offset: -3.358 ms

Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: Mon, 24 Jul 2017 21:32:35 +0000
End at: Mon, 24 Jul 2017 21:33:05 +0000
Local clock offset: 0.292 ms
Remote clock offset: -0.809 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:33:08 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.67 Mbit/s
95th percentile per-packet one-way delay: 52.547 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 63.67 Mbit/s
95th percentile per-packet one-way delay: 52.547 ms
Loss rate: 0.45%
```
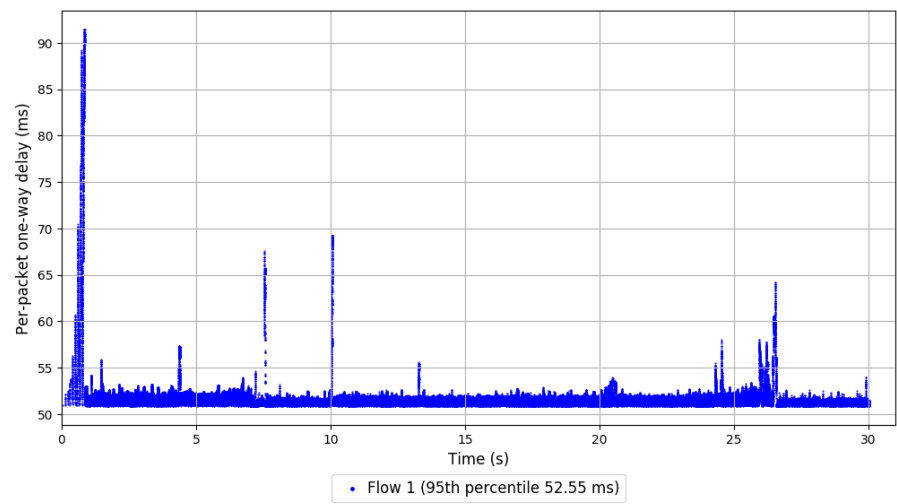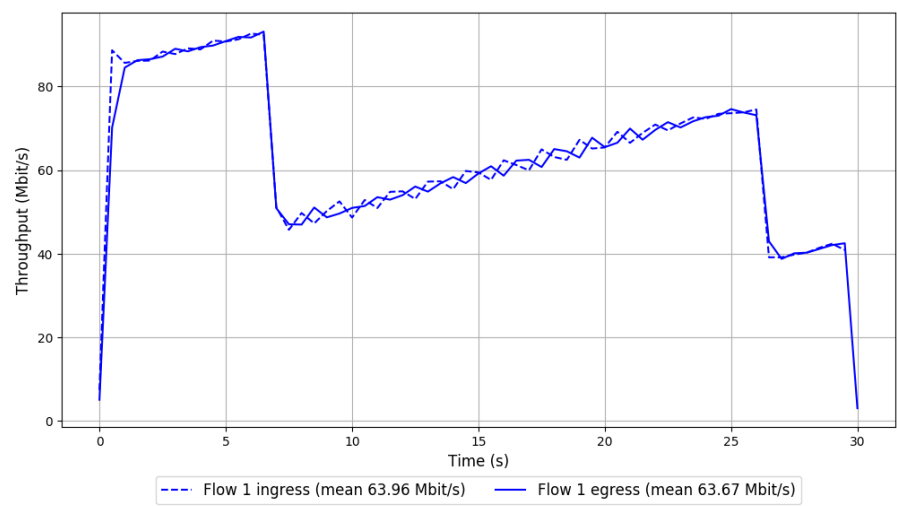
Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 63.96 Mbit/s)   Flow 1 egress (mean 63.67 Mbit/s)

• Flow 1 (95th percentile 52.55 ms)
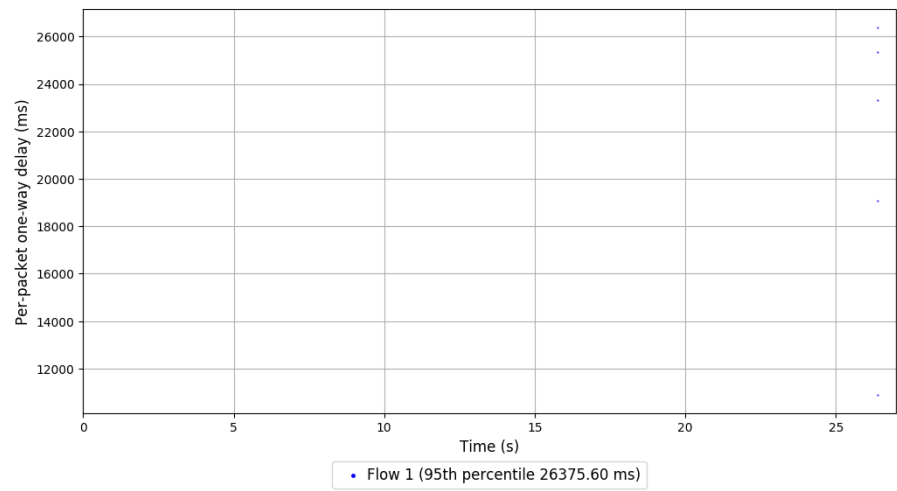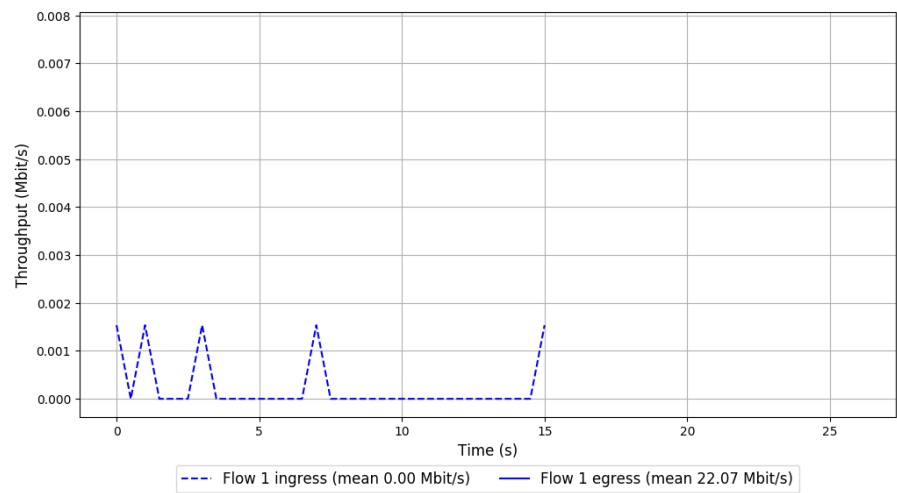
Run 6: Statistics of TCP Vegas

Start at: Mon, 24 Jul 2017 21:53:21 +0000
End at: Mon, 24 Jul 2017 21:53:51 +0000
Local clock offset: 0.431 ms
Remote clock offset: -1.425 ms

Run 6: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 0.00 Mbit/s) — Flow 1 egress (mean 22.07 Mbit/s)

Flow 1 (95th percentile 26375.60 ms)

255

```
Run 7: Statistics of TCP Vegas

Start at: Mon, 24 Jul 2017 22:13:36 +0000
End at: Mon, 24 Jul 2017 22:14:06 +0000
Local clock offset: 0.47 ms
Remote clock offset: -3.807 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:33:12 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.76 Mbit/s
95th percentile per-packet one-way delay: 50.282 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 63.76 Mbit/s
95th percentile per-packet one-way delay: 50.282 ms
Loss rate: 0.10%
```
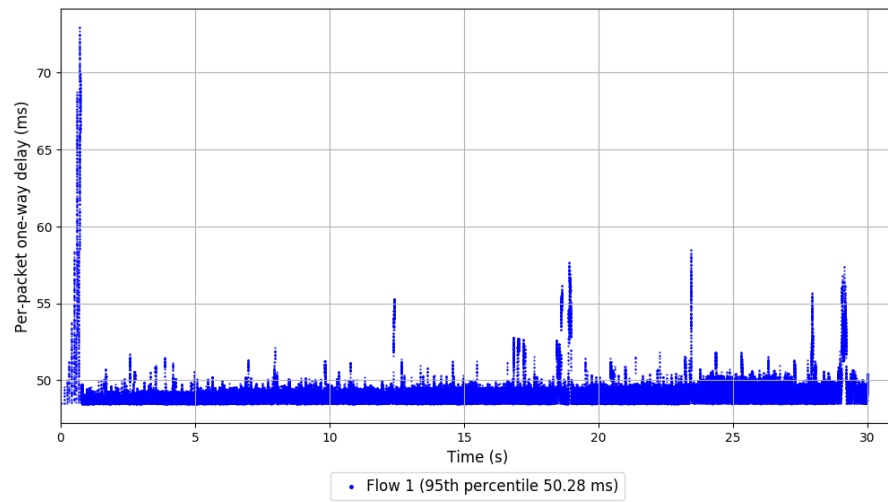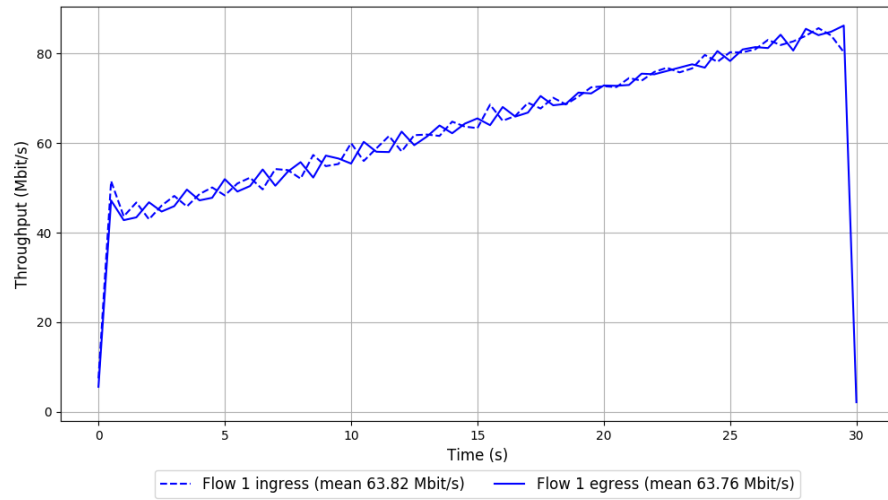
Run 7: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 63.82 Mbit/s)   Flow 1 egress (mean 63.76 Mbit/s)

• Flow 1 (95th percentile 50.28 ms)

```
Run 8: Statistics of TCP Vegas

Start at: Mon, 24 Jul 2017 22:35:27 +0000
End at: Mon, 24 Jul 2017 22:35:57 +0000
Local clock offset: 0.471 ms
Remote clock offset: -4.179 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:33:15 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.64 Mbit/s
95th percentile per-packet one-way delay: 53.139 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 43.64 Mbit/s
95th percentile per-packet one-way delay: 53.139 ms
Loss rate: 0.52%
```
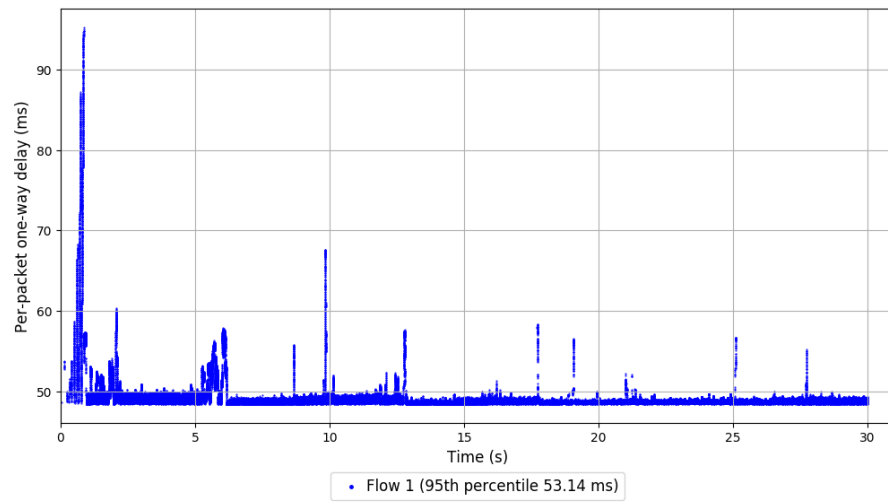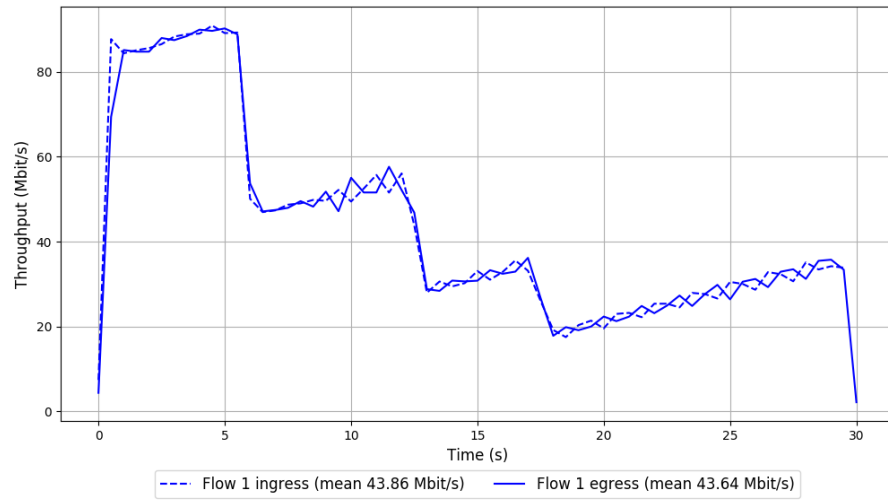
Run 8: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 43.86 Mbit/s) ---- Flow 1 egress (mean 43.64 Mbit/s)

Flow 1 (95th percentile 53.14 ms)

```
Run 9: Statistics of TCP Vegas

Start at: Mon, 24 Jul 2017 22:58:45 +0000
End at: Mon, 24 Jul 2017 22:59:15 +0000
Local clock offset: 0.434 ms
Remote clock offset: -2.378 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:33:17 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 56.721 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 56.721 ms
Loss rate: 2.03%
```
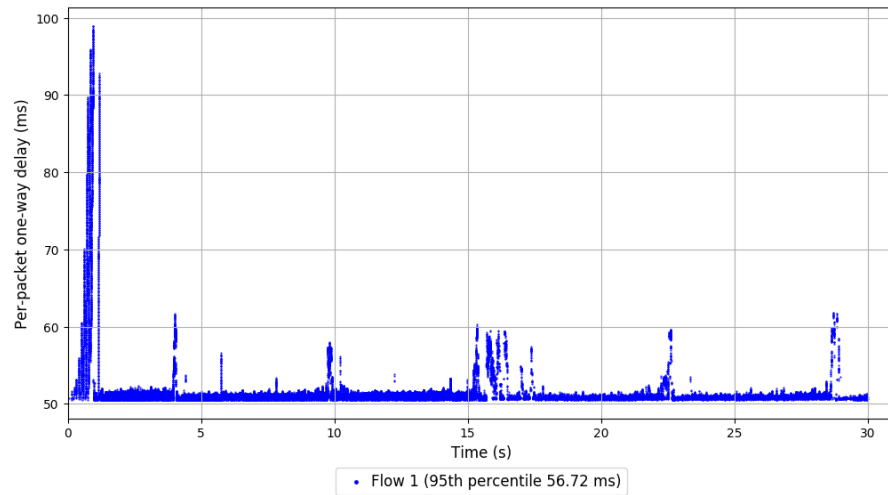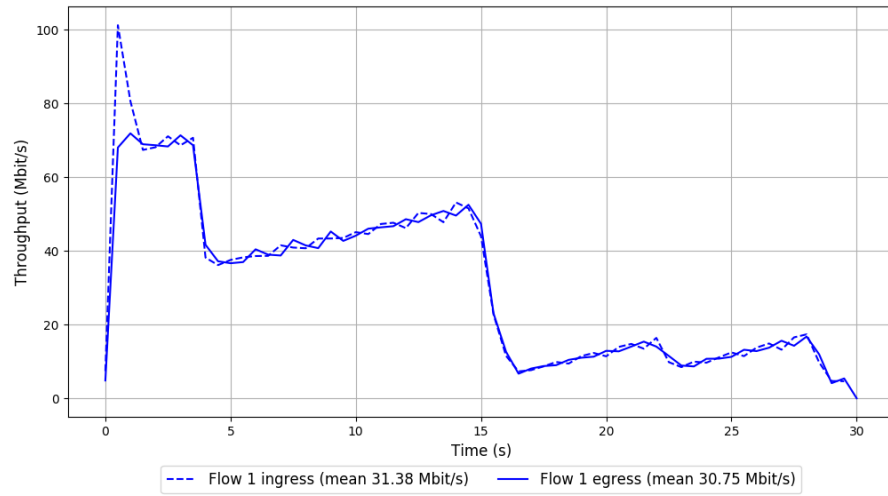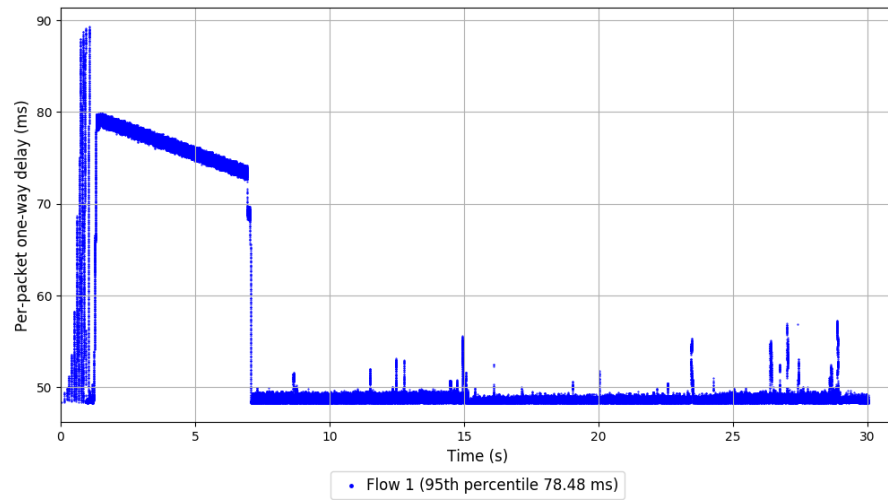
Run 9: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 31.38 Mbit/s) --- Flow 1 egress (mean 30.75 Mbit/s)

Flow 1 (95th percentile 56.72 ms)

```
Run 10: Statistics of TCP Vegas

Start at: Mon, 24 Jul 2017 23:20:32 +0000
End at: Mon, 24 Jul 2017 23:21:02 +0000
Local clock offset: 0.221 ms
Remote clock offset: -4.812 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:33:22 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.13 Mbit/s
95th percentile per-packet one-way delay: 78.481 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 62.13 Mbit/s
95th percentile per-packet one-way delay: 78.481 ms
Loss rate: 1.02%
```
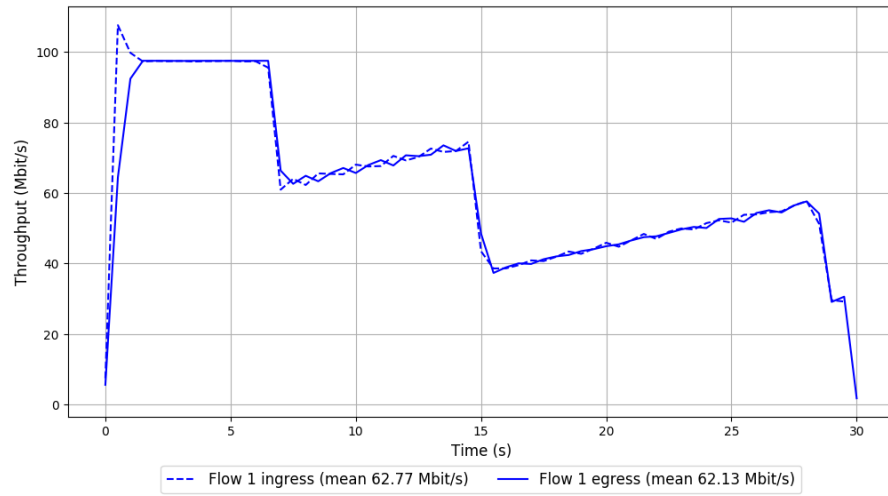
Run 10: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: Mon, 24 Jul 2017 20:20:42 +0000
End at: Mon, 24 Jul 2017 20:21:12 +0000
Local clock offset: 0.009 ms
Remote clock offset: -3.379 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:33:25 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.01 Mbit/s
95th percentile per-packet one-way delay: 84.641 ms
Loss rate: 27.30%
-- Flow 1:
Average throughput: 50.01 Mbit/s
95th percentile per-packet one-way delay: 84.641 ms
Loss rate: 27.30%
```
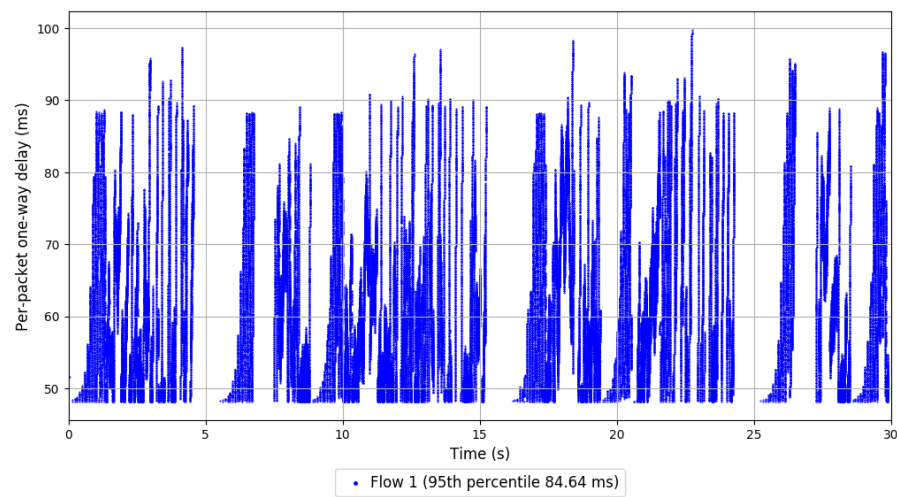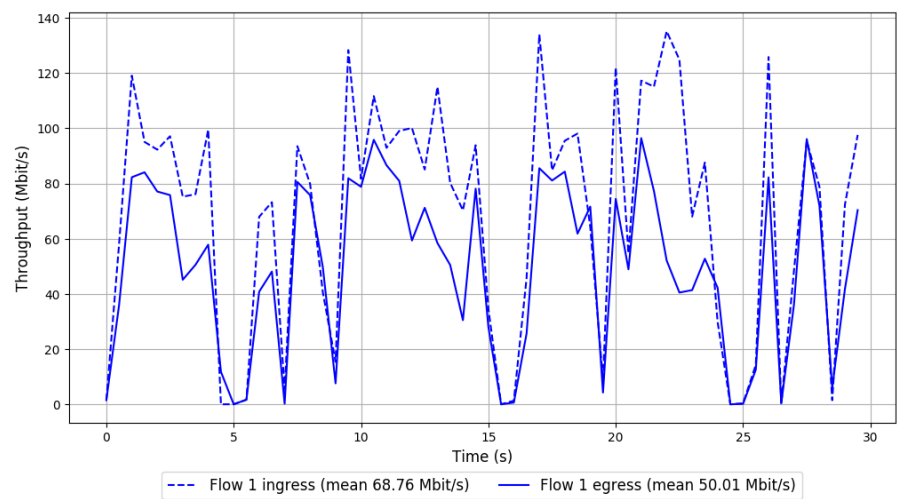
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: Mon, 24 Jul 2017 20:41:16 +0000
End at: Mon, 24 Jul 2017 20:41:46 +0000
Local clock offset: 0.163 ms
Remote clock offset: -1.653 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:33:31 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 86.669 ms
Loss rate: 25.67%
-- Flow 1:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 86.669 ms
Loss rate: 25.67%
```
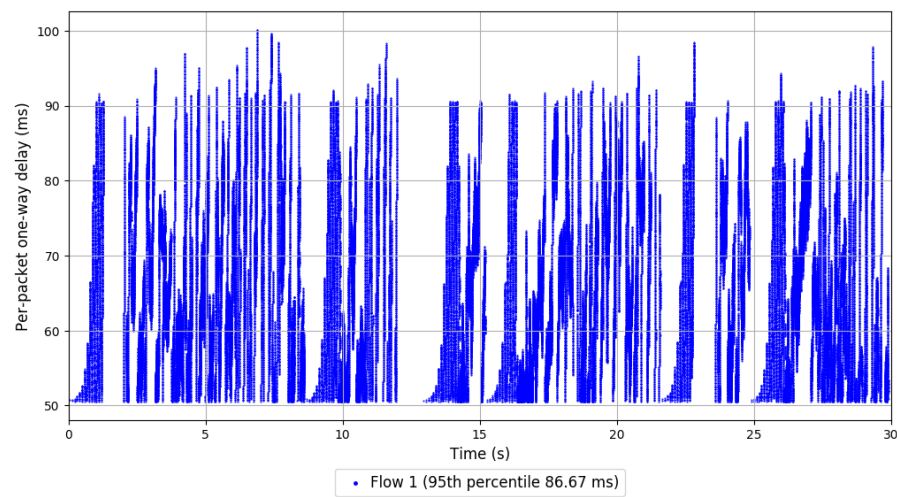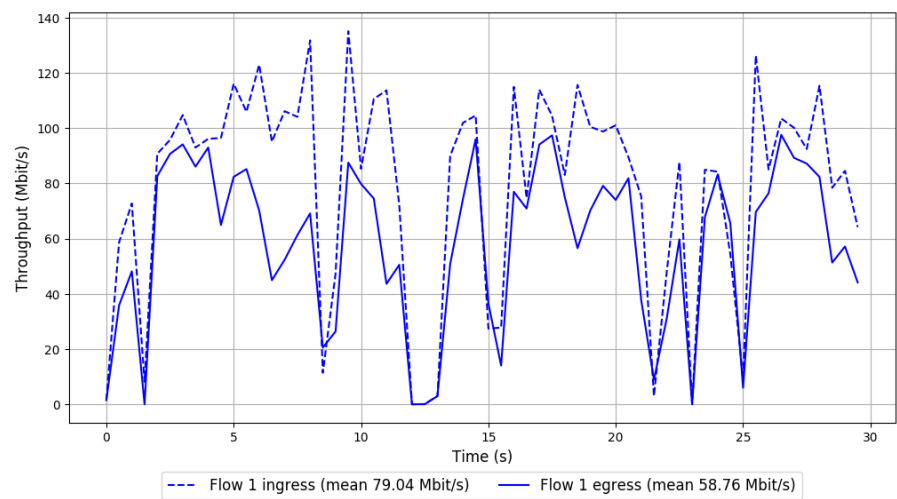
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: Mon, 24 Jul 2017 21:02:11 +0000
End at: Mon, 24 Jul 2017 21:02:41 +0000
Local clock offset: 0.262 ms
Remote clock offset: -1.296 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:33:34 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.39 Mbit/s
95th percentile per-packet one-way delay: 84.017 ms
Loss rate: 20.70%
-- Flow 1:
Average throughput: 59.39 Mbit/s
95th percentile per-packet one-way delay: 84.017 ms
Loss rate: 20.70%
```
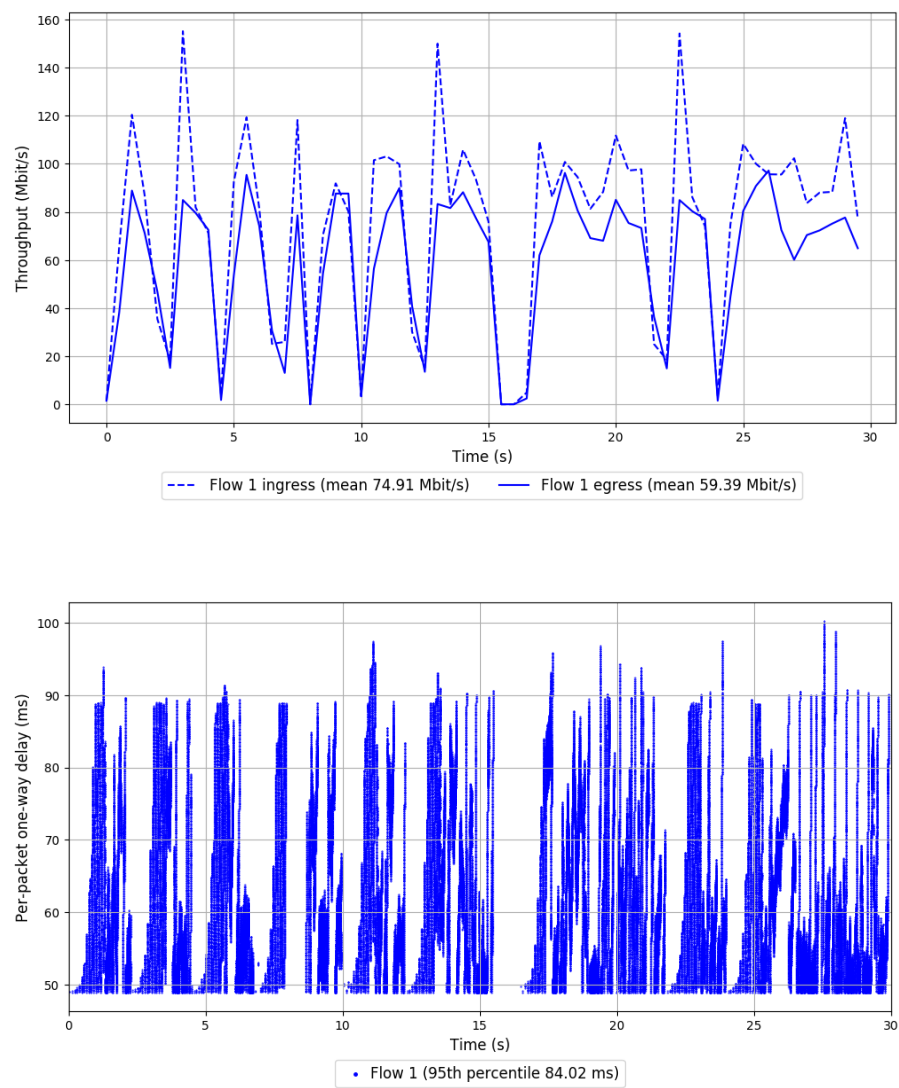
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: Mon, 24 Jul 2017 21:24:19 +0000
End at: Mon, 24 Jul 2017 21:24:49 +0000
Local clock offset: 0.354 ms
Remote clock offset: -1.296 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:33:42 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.29 Mbit/s
95th percentile per-packet one-way delay: 90.898 ms
Loss rate: 62.23%
-- Flow 1:
Average throughput: 53.29 Mbit/s
95th percentile per-packet one-way delay: 90.898 ms
Loss rate: 62.23%
```
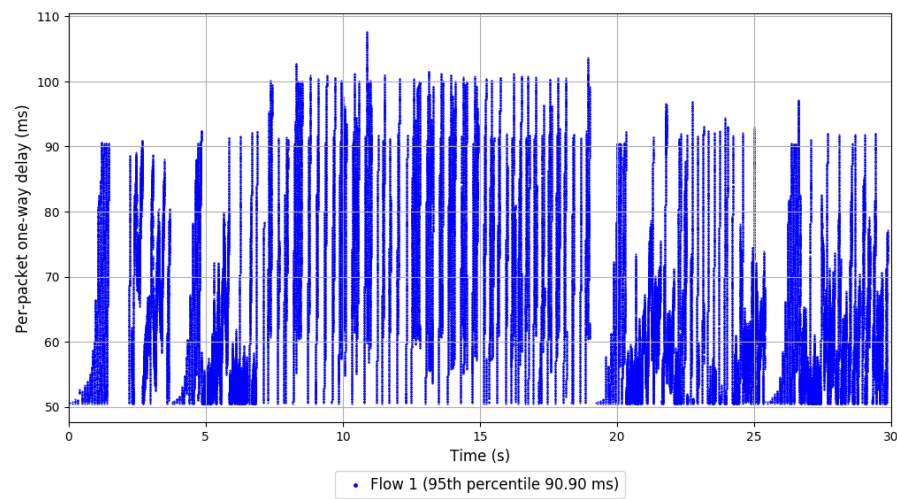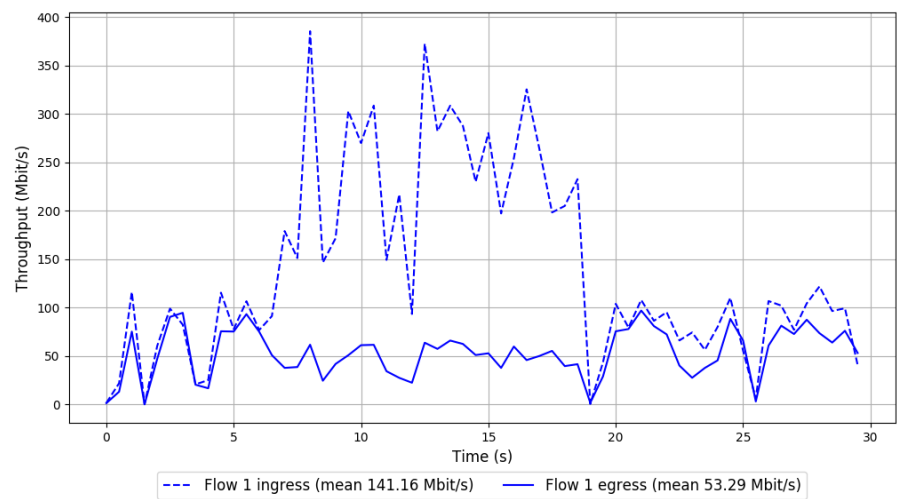
Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: Mon, 24 Jul 2017 21:45:06 +0000
End at: Mon, 24 Jul 2017 21:45:36 +0000
Local clock offset: 0.412 ms
Remote clock offset: -1.476 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:33:43 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.70 Mbit/s
95th percentile per-packet one-way delay: 89.278 ms
Loss rate: 51.17%
-- Flow 1:
Average throughput: 51.70 Mbit/s
95th percentile per-packet one-way delay: 89.278 ms
Loss rate: 51.17%
```
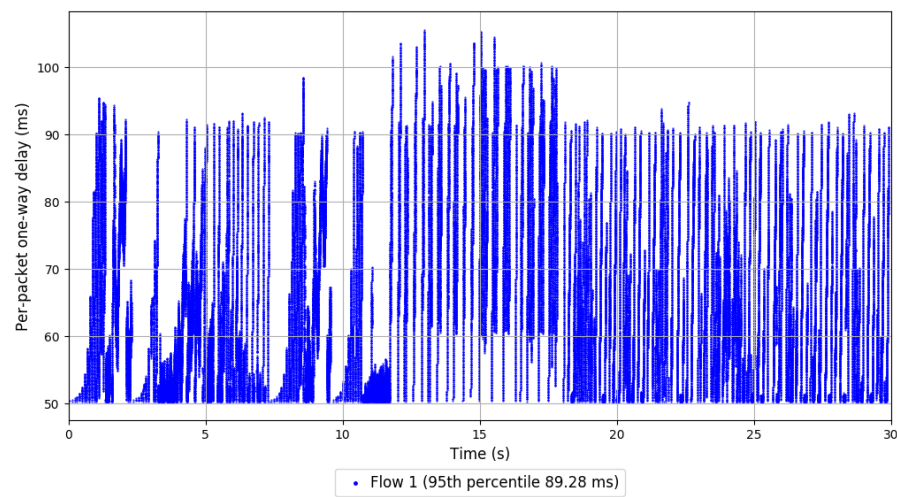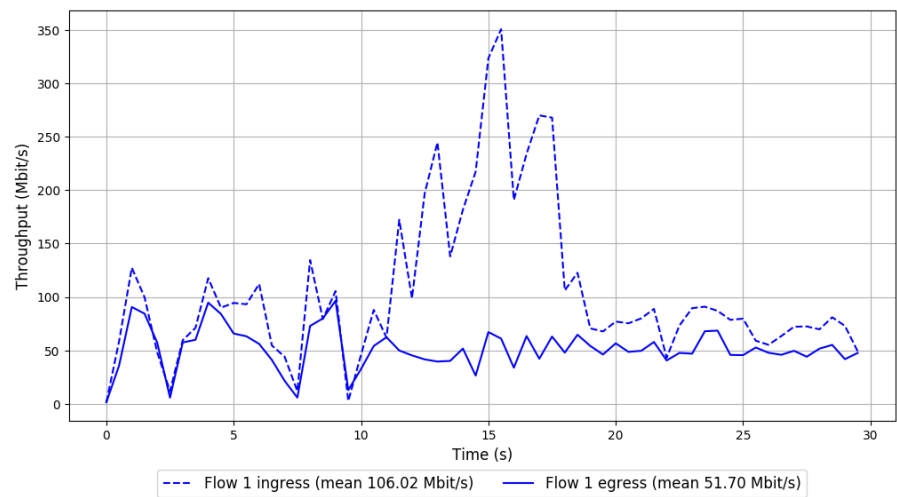
Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: Mon, 24 Jul 2017 22:05:26 +0000
End at: Mon, 24 Jul 2017 22:05:56 +0000
Local clock offset: 0.447 ms
Remote clock offset: -3.674 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:33:51 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.02 Mbit/s
95th percentile per-packet one-way delay: 83.515 ms
Loss rate: 23.13%
-- Flow 1:
Average throughput: 60.02 Mbit/s
95th percentile per-packet one-way delay: 83.515 ms
Loss rate: 23.13%
```
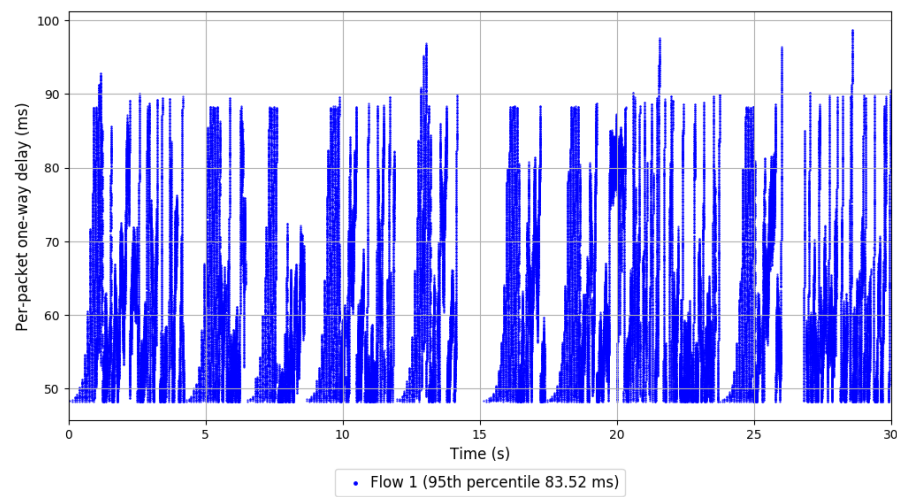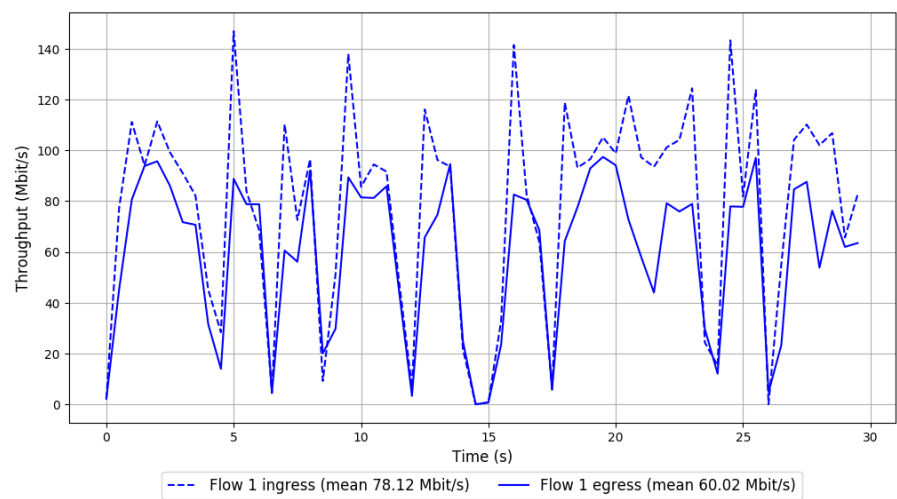
Run 6: Report of Verus — Data Link

```
Run 7: Statistics of Verus

Start at: Mon, 24 Jul 2017 22:26:31 +0000
End at: Mon, 24 Jul 2017 22:27:01 +0000
Local clock offset: 0.412 ms
Remote clock offset: -1.631 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:33:51 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.14 Mbit/s
95th percentile per-packet one-way delay: 90.128 ms
Loss rate: 51.34%
-- Flow 1:
Average throughput: 45.14 Mbit/s
95th percentile per-packet one-way delay: 90.128 ms
Loss rate: 51.34%
```
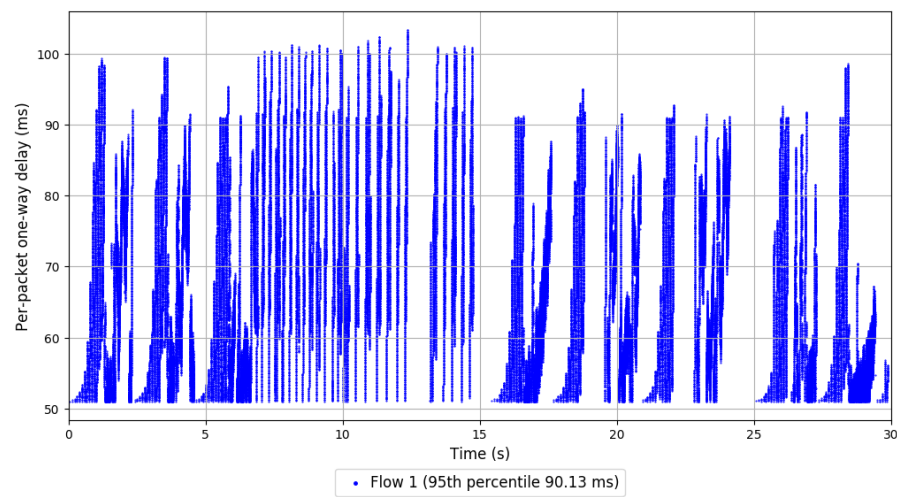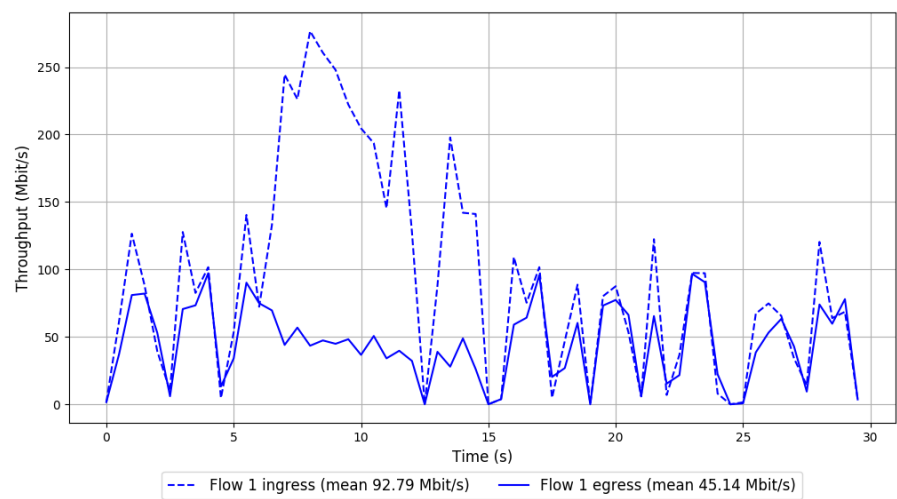
Run 7: Report of Verus — Data Link

```
Run 8: Statistics of Verus

Start at: Mon, 24 Jul 2017 22:49:17 +0000
End at: Mon, 24 Jul 2017 22:49:47 +0000
Local clock offset: 0.327 ms
Remote clock offset: -1.886 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:33:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.64 Mbit/s
95th percentile per-packet one-way delay: 87.053 ms
Loss rate: 26.22%
-- Flow 1:
Average throughput: 53.64 Mbit/s
95th percentile per-packet one-way delay: 87.053 ms
Loss rate: 26.22%
```
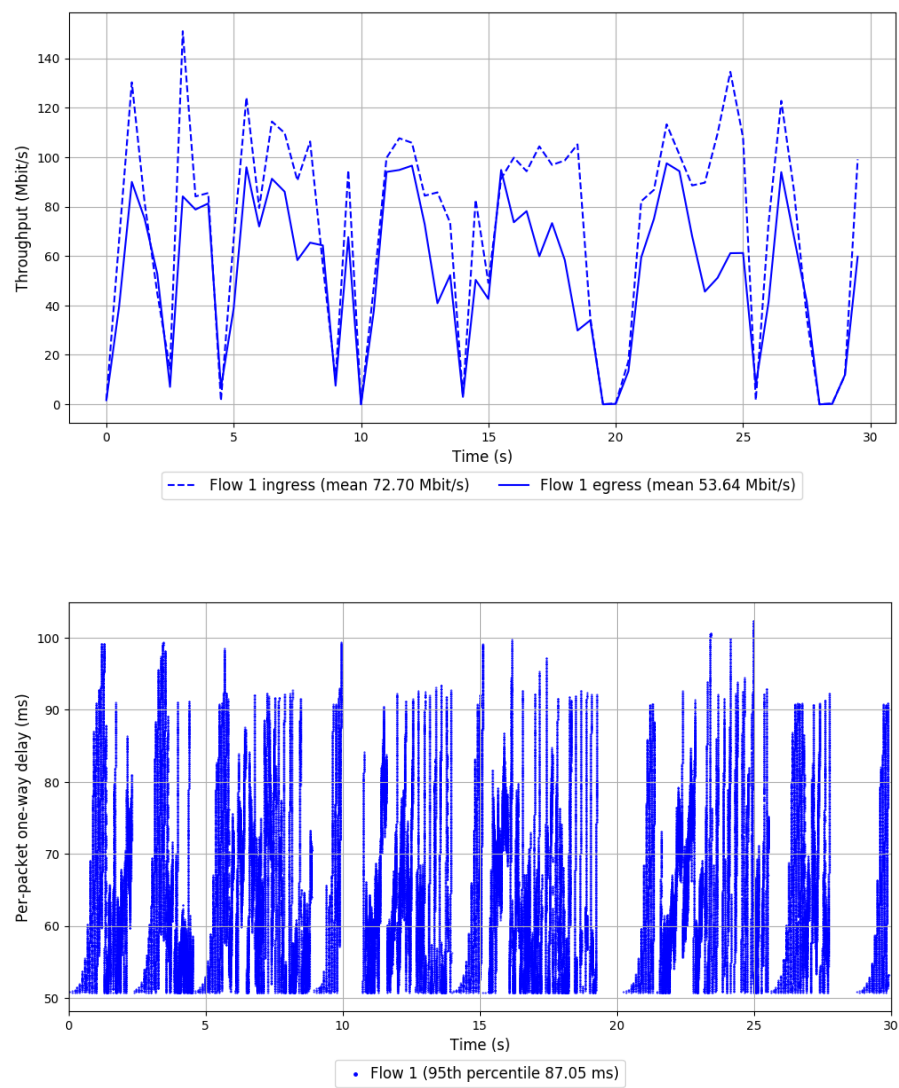
Run 8: Report of Verus — Data Link

Flow 1 ingress (mean 72.70 Mbit/s) — — — Flow 1 egress (mean 53.64 Mbit/s)

Flow 1 (95th percentile 87.05 ms)

```
Run 9: Statistics of Verus

Start at: Mon, 24 Jul 2017 23:12:04 +0000
End at: Mon, 24 Jul 2017 23:12:34 +0000
Local clock offset: 0.402 ms
Remote clock offset: -2.567 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:33:59 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.50 Mbit/s
95th percentile per-packet one-way delay: 86.078 ms
Loss rate: 21.51%
-- Flow 1:
Average throughput: 53.50 Mbit/s
95th percentile per-packet one-way delay: 86.078 ms
Loss rate: 21.51%
```
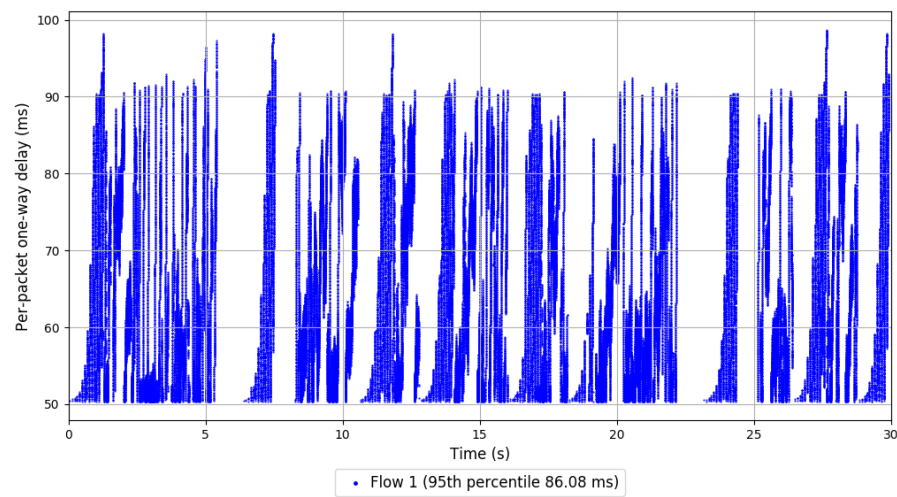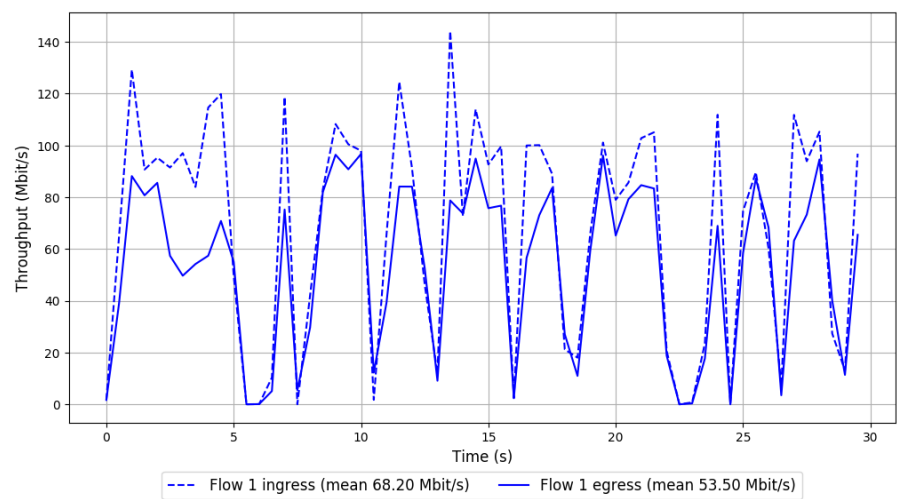
Run 9: Report of Verus — Data Link

```
Run 10: Statistics of Verus

Start at: Mon, 24 Jul 2017 23:33:13 +0000
End at: Mon, 24 Jul 2017 23:33:43 +0000
Local clock offset: 0.14 ms
Remote clock offset: -2.877 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:34:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.00 Mbit/s
95th percentile per-packet one-way delay: 91.308 ms
Loss rate: 61.19%
-- Flow 1:
Average throughput: 58.00 Mbit/s
95th percentile per-packet one-way delay: 91.308 ms
Loss rate: 61.19%
```
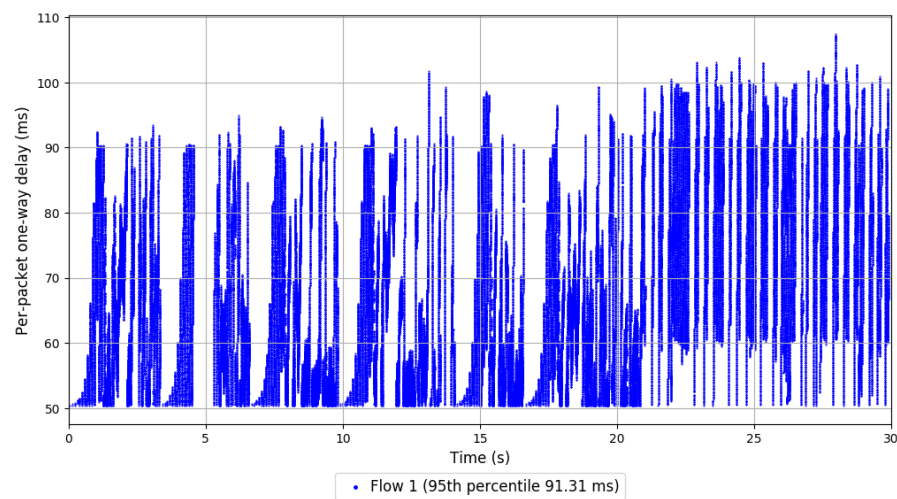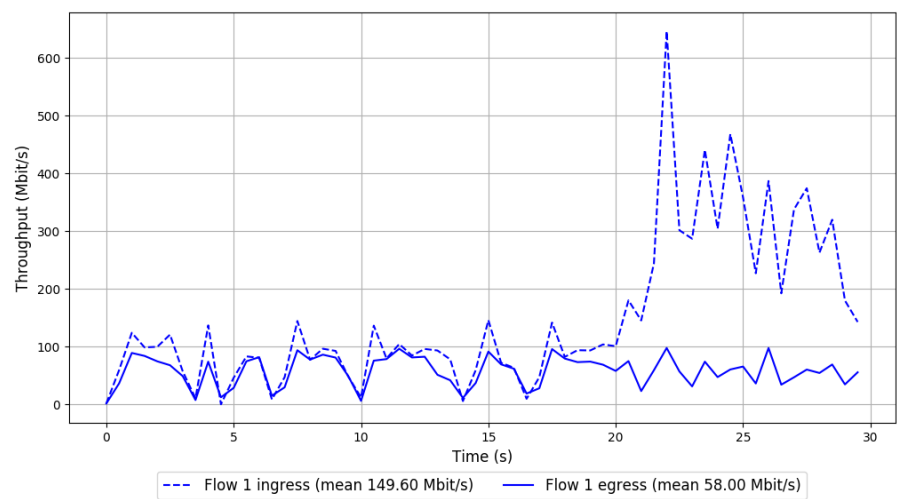
Run 10: Report of Verus — Data Link

```
Run 1: Statistics of WebRTC media

Start at: Mon, 24 Jul 2017 20:19:25 +0000
End at: Mon, 24 Jul 2017 20:19:55 +0000
Local clock offset: -0.095 ms
Remote clock offset: -0.668 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:34:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 52.091 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 52.091 ms
Loss rate: 0.04%
```
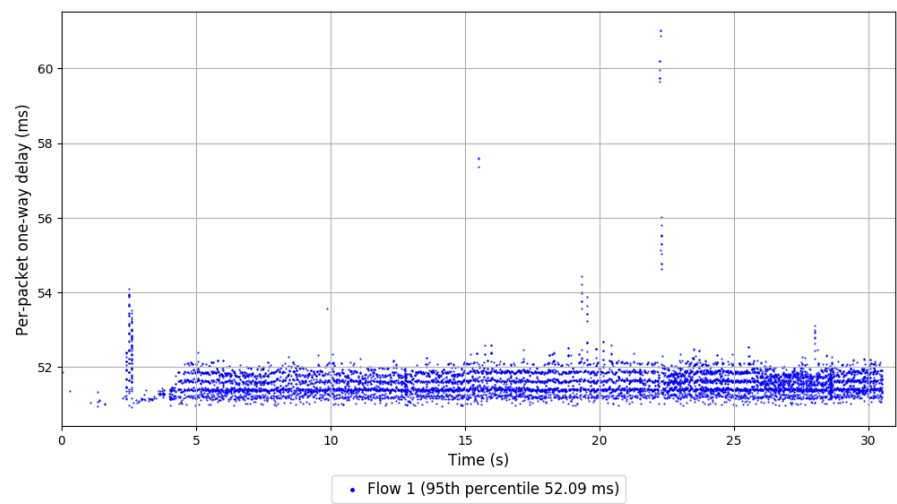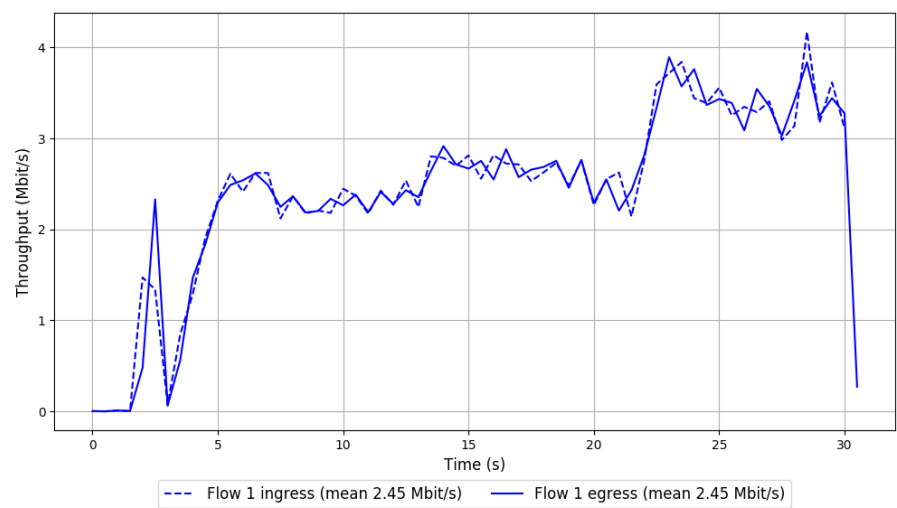
Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: Mon, 24 Jul 2017 20:39:58 +0000
End at: Mon, 24 Jul 2017 20:40:28 +0000
Local clock offset: 0.154 ms
Remote clock offset: -1.059 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:34:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 51.866 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 51.866 ms
Loss rate: 0.17%
```
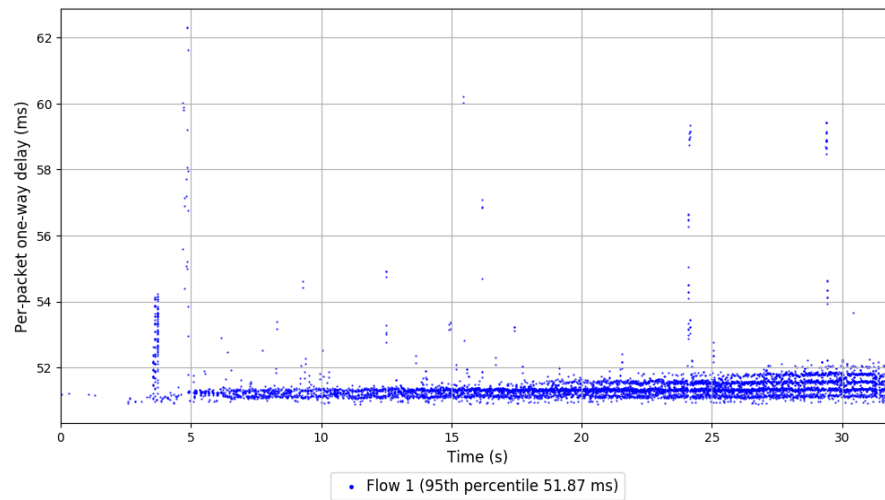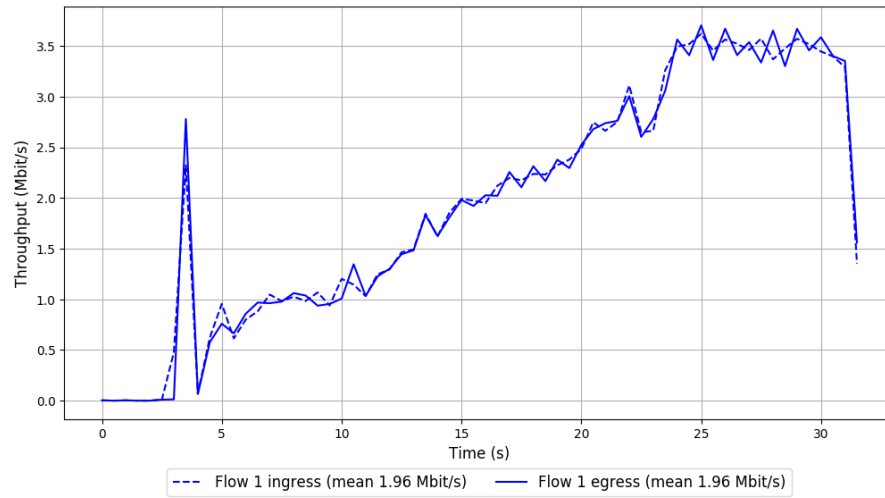
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: Mon, 24 Jul 2017 21:00:54 +0000
End at: Mon, 24 Jul 2017 21:01:24 +0000
Local clock offset: 0.373 ms
Remote clock offset: -0.746 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:34:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.90 Mbit/s
95th percentile per-packet one-way delay: 52.119 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.90 Mbit/s
95th percentile per-packet one-way delay: 52.119 ms
Loss rate: 0.14%
```
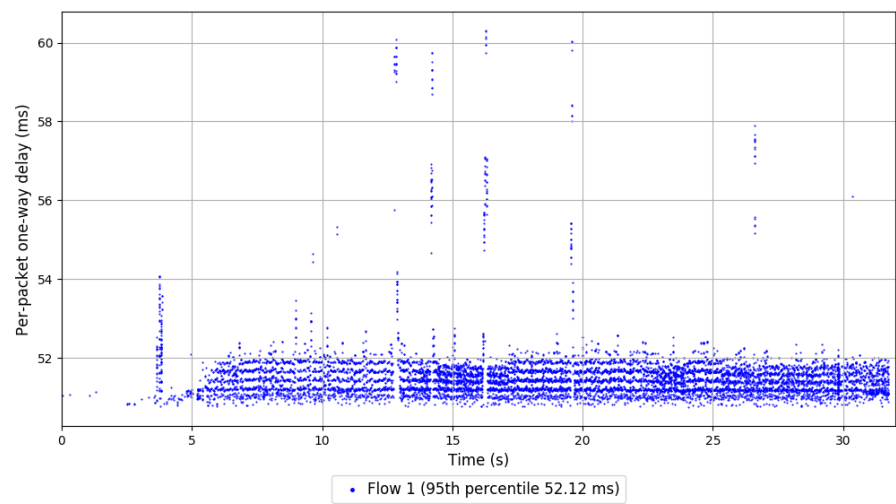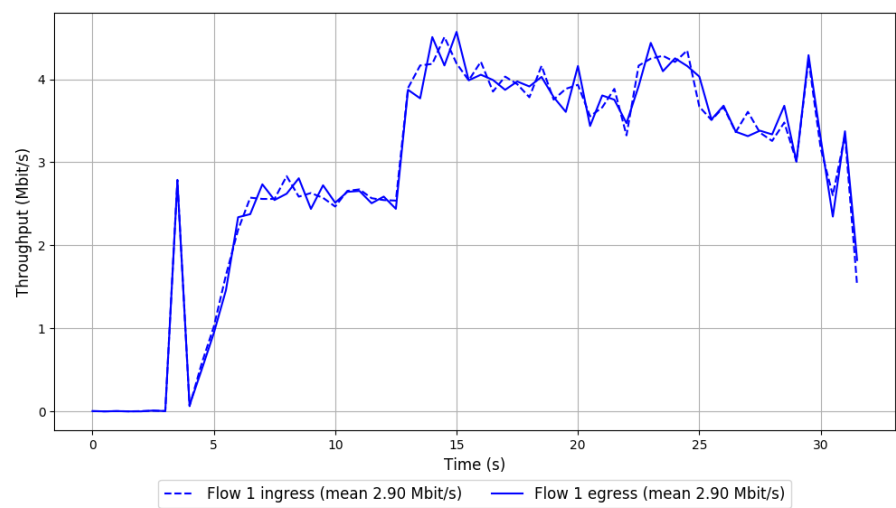
Run 3: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.90 Mbit/s) --- Flow 1 egress (mean 2.90 Mbit/s)

Flow 1 (95th percentile 52.12 ms)

```
Run 4: Statistics of WebRTC media

Start at: Mon, 24 Jul 2017 21:23:02 +0000
End at: Mon, 24 Jul 2017 21:23:32 +0000
Local clock offset: 0.355 ms
Remote clock offset: -3.473 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:34:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 49.063 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 49.063 ms
Loss rate: 0.00%
```
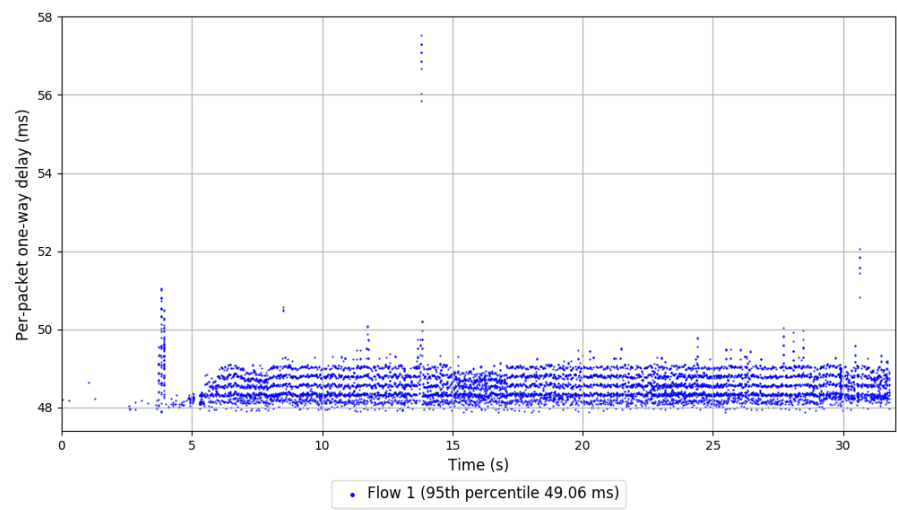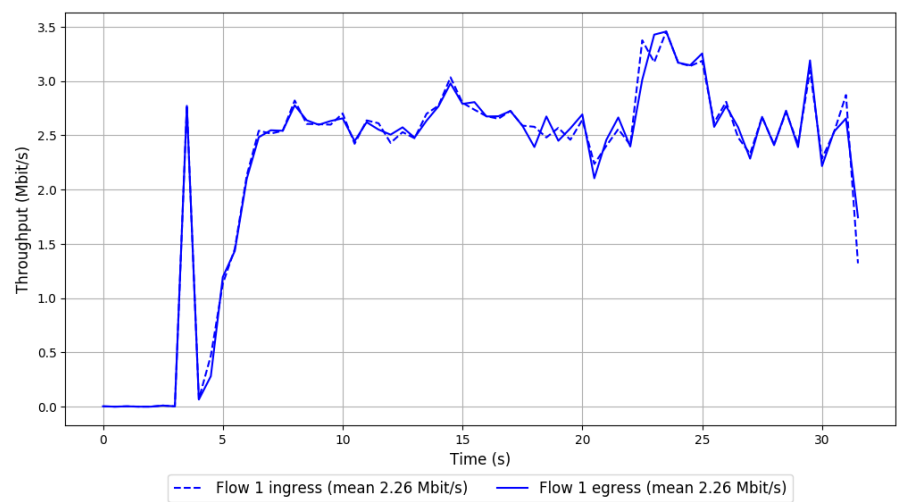
Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: Mon, 24 Jul 2017 21:43:49 +0000
End at: Mon, 24 Jul 2017 21:44:19 +0000
Local clock offset: 0.437 ms
Remote clock offset: -3.546 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:34:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 47.813 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 47.813 ms
Loss rate: 0.00%
```
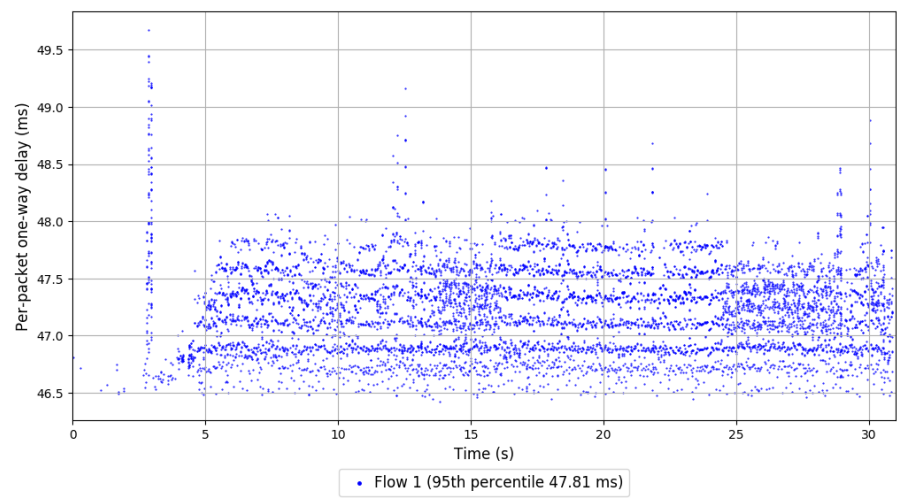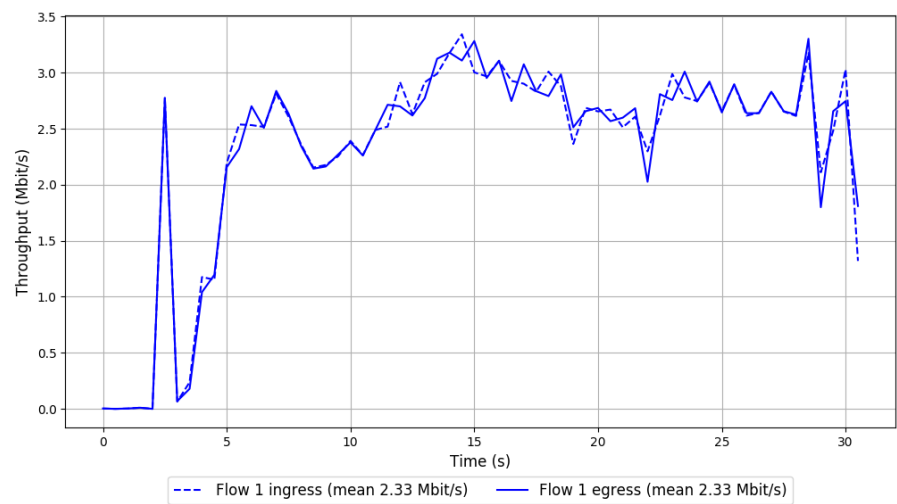
Run 5: Report of WebRTC media — Data Link

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

• Flow 1 (95th percentile 47.81 ms)

```
Run 6: Statistics of WebRTC media

Start at: Mon, 24 Jul 2017 22:04:08 +0000
End at: Mon, 24 Jul 2017 22:04:38 +0000
Local clock offset: 0.356 ms
Remote clock offset: -3.782 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:34:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 49.194 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 49.194 ms
Loss rate: 0.00%
```
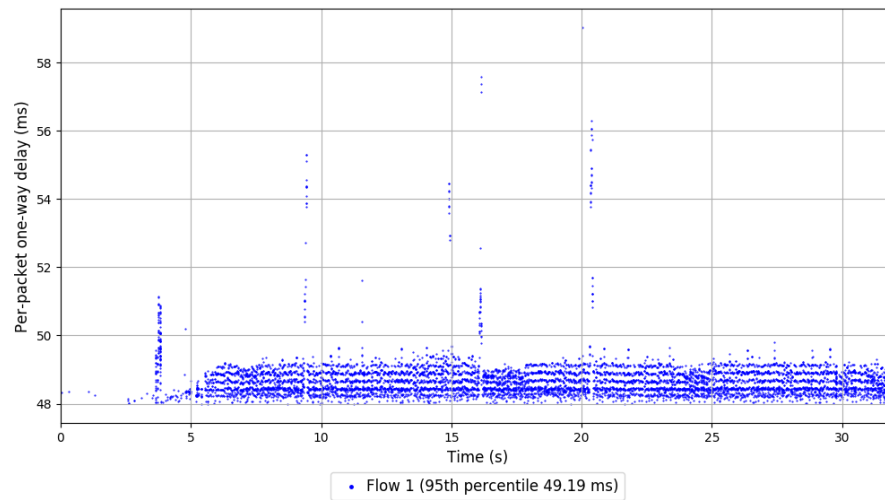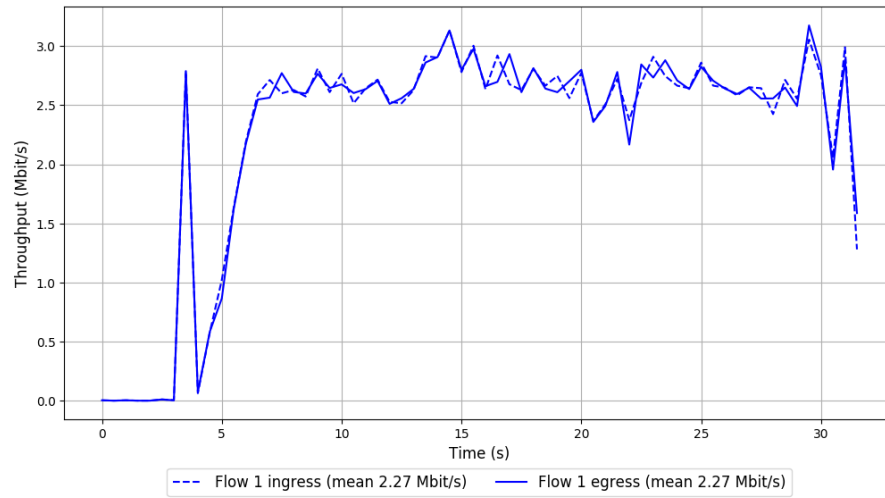
Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: Mon, 24 Jul 2017 22:25:14 +0000
End at: Mon, 24 Jul 2017 22:25:44 +0000
Local clock offset: 0.539 ms
Remote clock offset: -4.066 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:34:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 49.124 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 49.124 ms
Loss rate: 0.04%
```
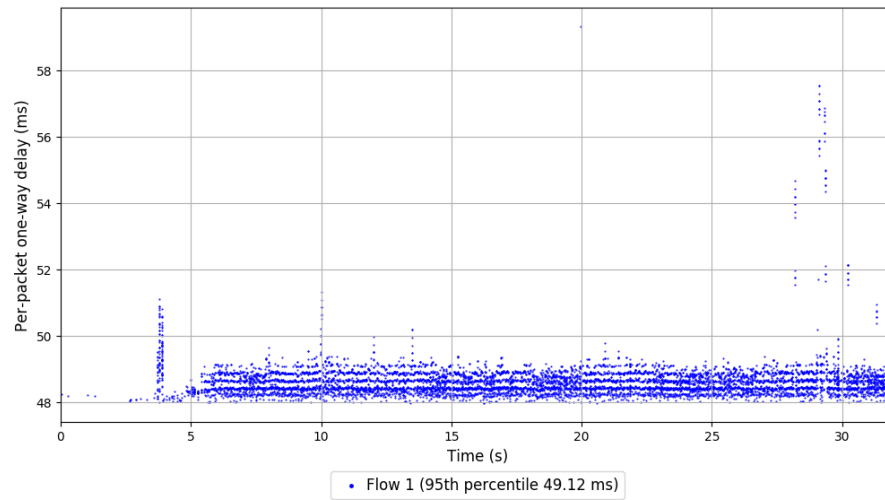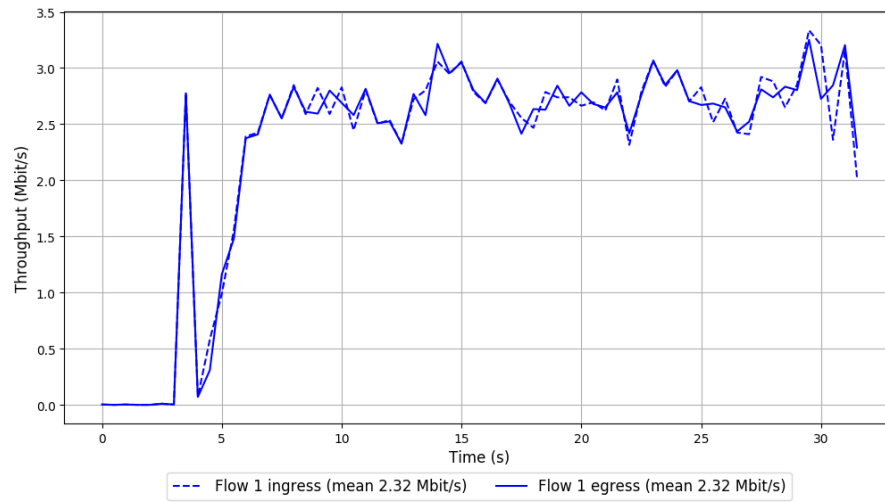
Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: Mon, 24 Jul 2017 22:47:59 +0000
End at: Mon, 24 Jul 2017 22:48:29 +0000
Local clock offset: 0.343 ms
Remote clock offset: -2.321 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:34:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 51.256 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 51.256 ms
Loss rate: 0.00%
```
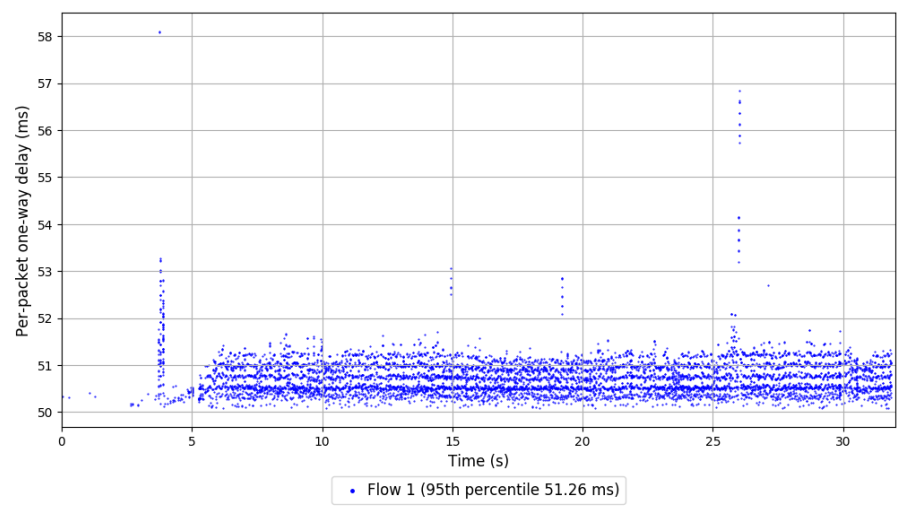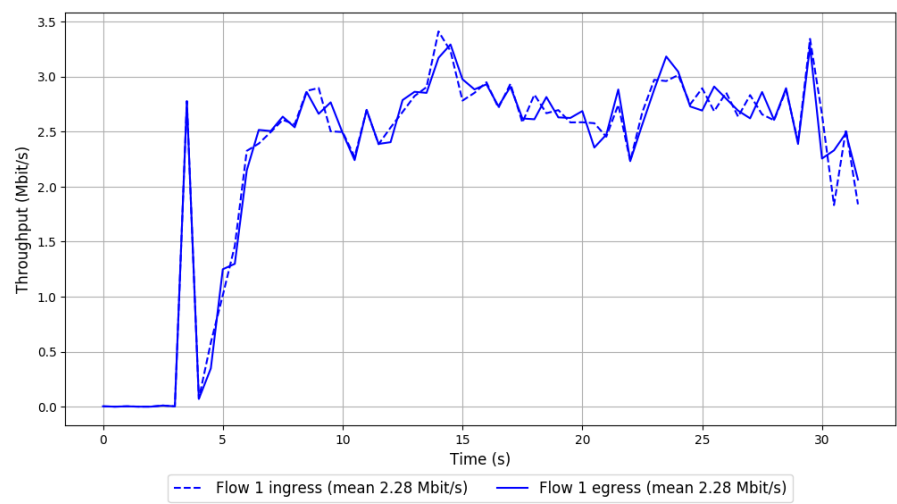
Run 8: Report of WebRTC media — Data Link

```
Run 9: Statistics of WebRTC media

Start at: Mon, 24 Jul 2017 23:10:47 +0000
End at: Mon, 24 Jul 2017 23:11:17 +0000
Local clock offset: 0.322 ms
Remote clock offset: -2.561 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:34:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 51.547 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 51.547 ms
Loss rate: 0.00%
```
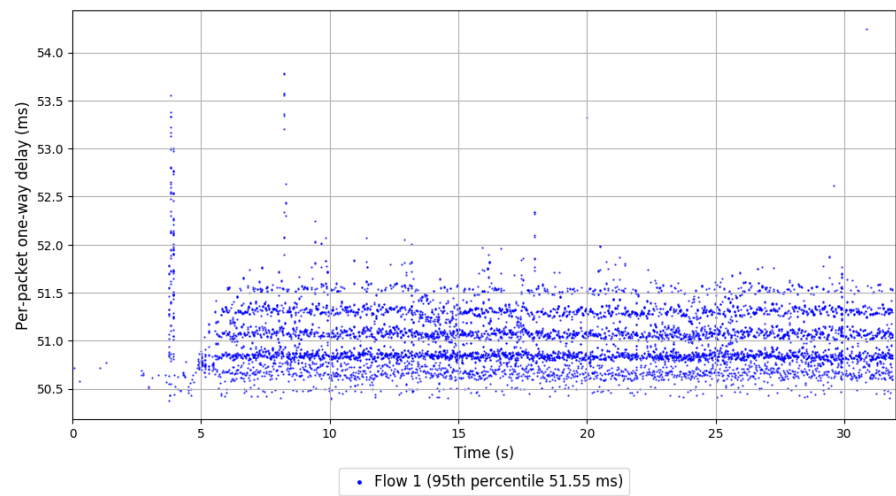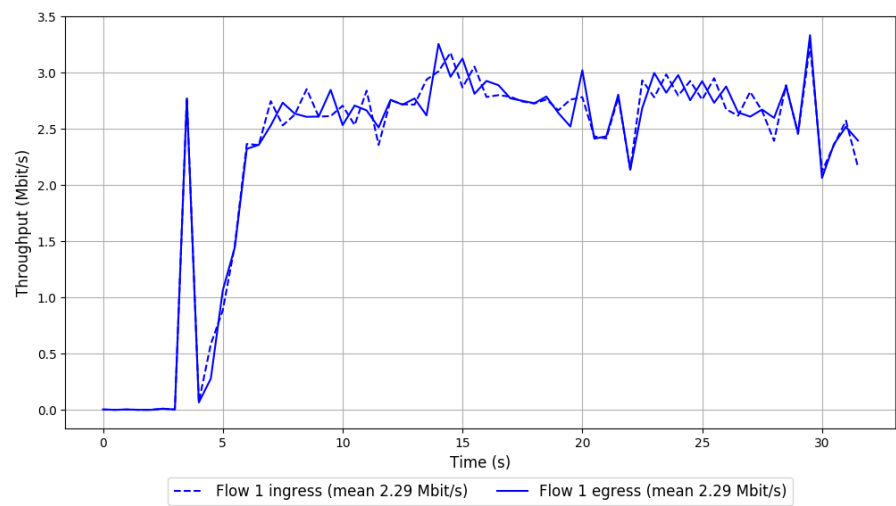
Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: Mon, 24 Jul 2017 23:31:55 +0000
End at: Mon, 24 Jul 2017 23:32:25 +0000
Local clock offset: 0.148 ms
Remote clock offset: -2.781 ms


# Below is generated by plot.py at Tue, 25 Jul 2017 03:34:11 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 51.380 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 51.380 ms
Loss rate: 0.12%
```

Run 10: Report of WebRTC media — Data Link